

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110623\
 Data File : VN079924.D
 Acq On : 06 Nov 2023 15:45
 Operator : JC\MD
 Sample : PB156885ZHE#07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 07 04:49:15 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)

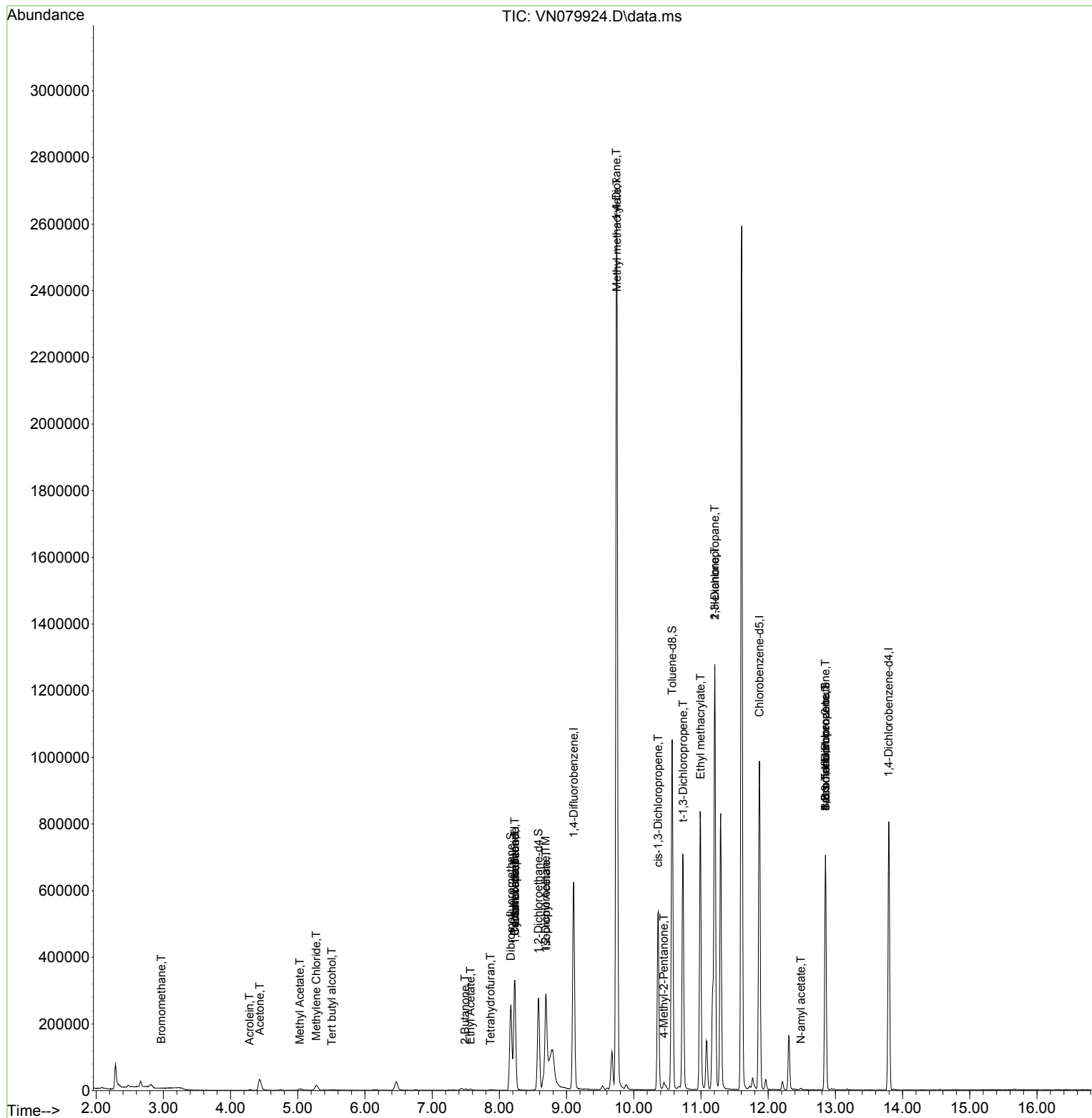
Internal Standards						
1) Pentafluorobenzene	8.230	168	231098	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	511219	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	549890	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	206396	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	223032	63.346	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 126.700%#			
35) Dibromofluoromethane	8.171	113	184749	51.061	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.120%			
50) Toluene-d8	10.571	98	693691	52.079	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.160%			
62) 4-Bromofluorobenzene	12.853	95	235772	53.372	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 106.740%			
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	1446	Below Cal		93
5) Bromomethane	2.971	94	546	0.247	ug/l	85
11) Tert butyl alcohol	5.506	59	1191	2.650	ug/l #	72
13) Acrolein	4.283	56	67	2.737	ug/l #	16
16) Acetone	4.436	43	65526	52.983	ug/l	91
18) Methyl Acetate	5.030	43	9654	1.632	ug/l #	76
20) Methylene Chloride	5.277	84	11949	3.829	ug/l #	94
25) 2-Butanone	7.489	43	6840	3.777	ug/l #	73
29) Tetrahydrofuran	7.871	42	1008	0.855	ug/l #	25
31) Cyclohexane	8.230	56	6552	1.408	ug/l #	33
36) 1,1-Dichloropropene	8.236	75	21167	4.097	ug/l #	49
37) Ethyl Acetate	7.571	43	5794	1.223	ug/l #	94
38) Carbon Tetrachloride	8.230	117	26118	5.016	ug/l #	16
42) 1,2-Dichloroethane	8.688	62	1131	0.209	ug/l #	73
43) Isopropyl Acetate	8.694	43	359543	43.271	ug/l #	73
48) Methyl methacrylate	9.747	41	243859	67.004	ug/l #	28
49) 1,4-Dioxane	9.741	88	268	4.167	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	22991	4.915	ug/l #	67
53) t-1,3-Dichloropropene	10.735	75	1868	0.331	ug/l	94
54) cis-1,3-Dichloropropene	10.365	75	92927	15.103	ug/l #	71
56) Ethyl methacrylate	10.994	69	3991	0.758	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	12935	1.989	ug/l #	43
59) 2-Hexanone	11.206	43	155910	43.567	ug/l #	48
71) Bromoform	12.853	173	1718	0.563	ug/l #	1
74) N-amyl acetate	12.488	43	2052	0.300	ug/l #	39
76) 1,2,3-Trichloropropane	12.853	75	127388	26.290	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	127388	71.528	ug/l #	15

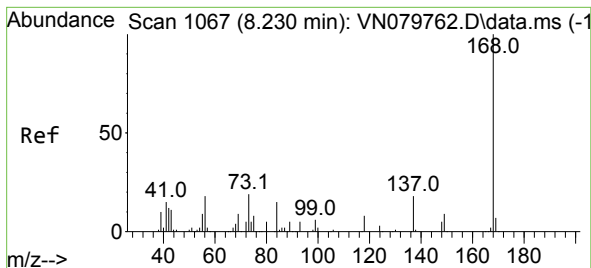
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Nov 02 05:49:08 2023
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. 0.001 min

Lab File: VN079924.D

Acq: 06 Nov 2023 15:45

Instrument :

MSVOA_N

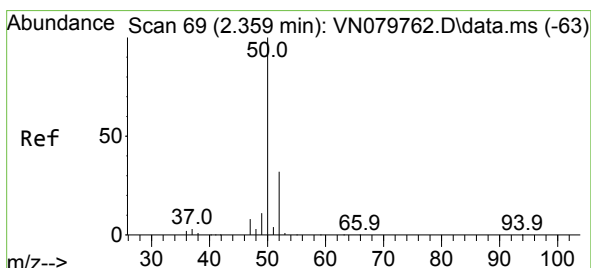
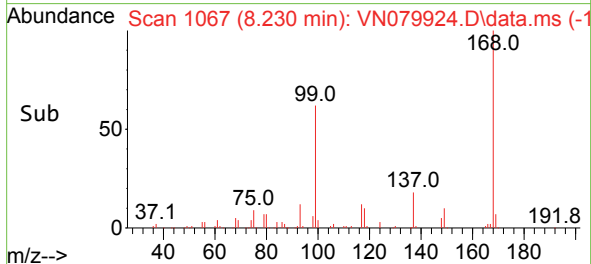
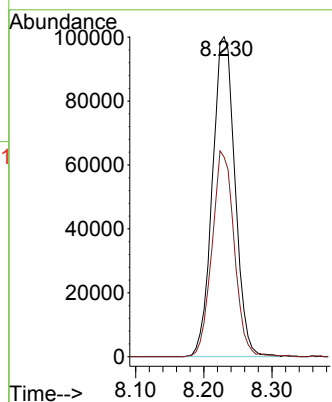
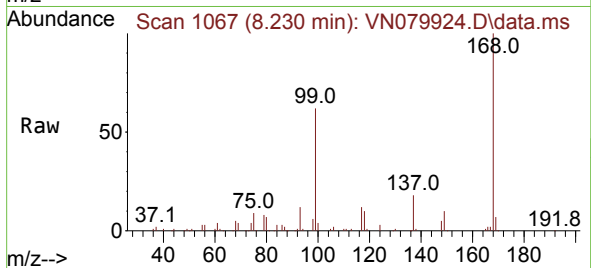
ClientSampleId :

Tgt Ion:168 Resp: 231098

Ion Ratio Lower Upper

168 100

99 62.4 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN079924.D

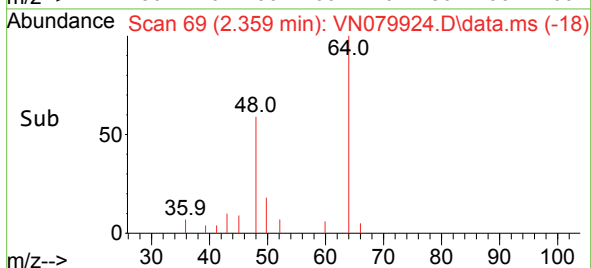
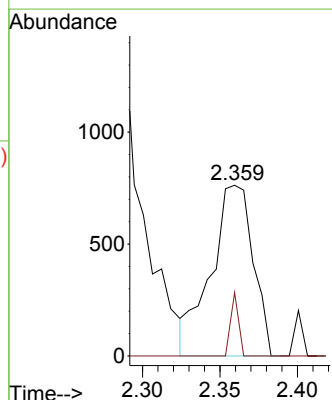
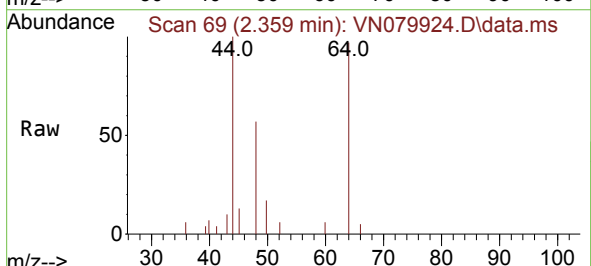
Acq: 06 Nov 2023 15:45

Tgt Ion: 50 Resp: 1446

Ion Ratio Lower Upper

50 100

52 37.1 26.5 39.7

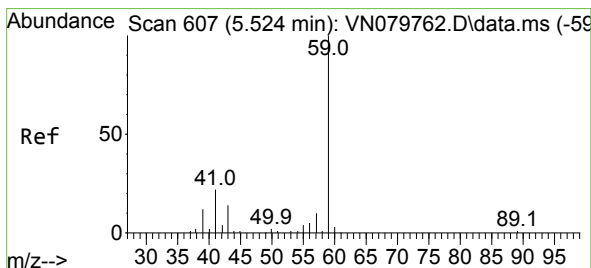
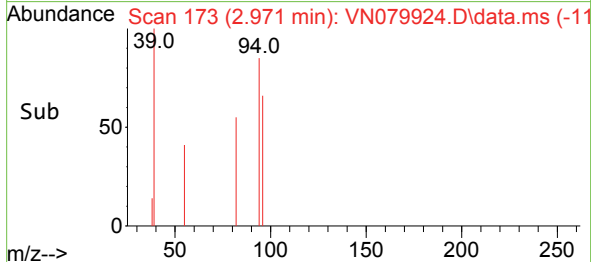
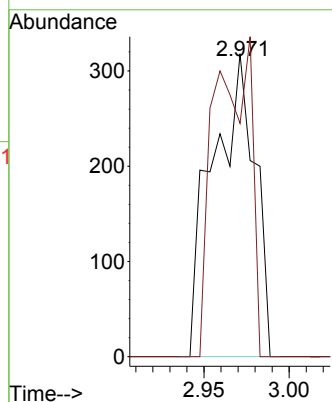
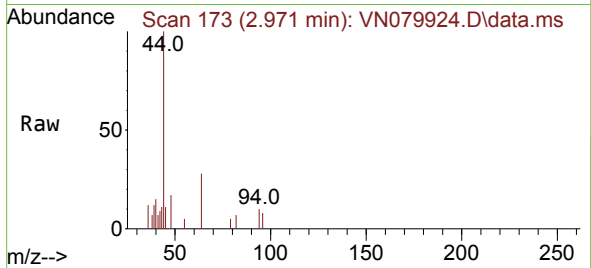




#5
Bromomethane
Concen: 0.247 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN079924.D
Acq: 06 Nov 2023 15:45

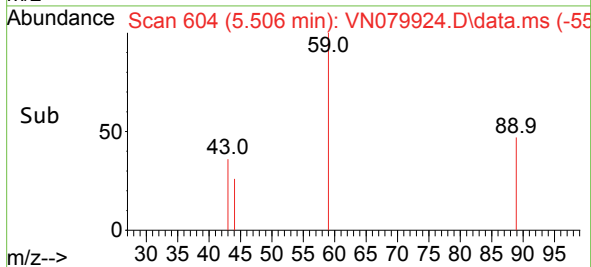
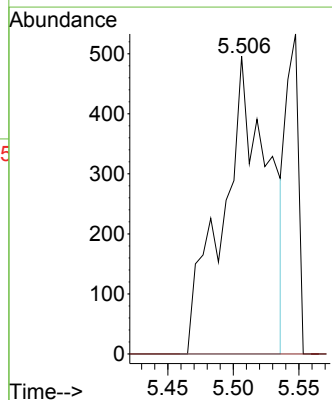
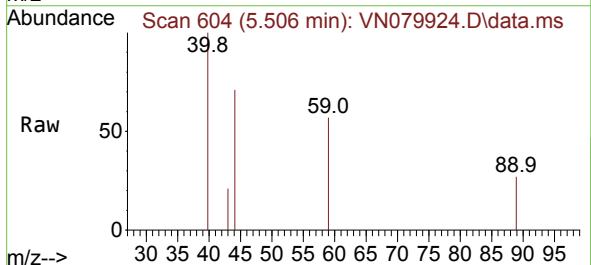
Instrument :
MSVOA_N
ClientSampleId :

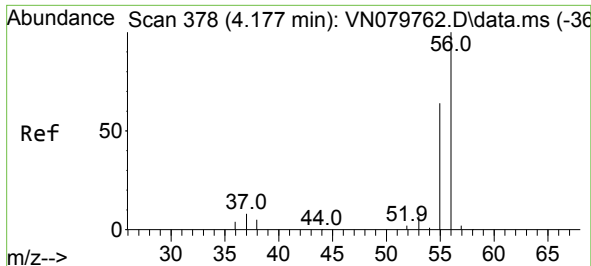
Tgt Ion: 94 Resp: 546
Ion Ratio Lower Upper
94 100
96 77.0 73.1 109.7



#11
Tert butyl alcohol
Concen: 2.650 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.012 min
Lab File: VN079924.D
Acq: 06 Nov 2023 15:45

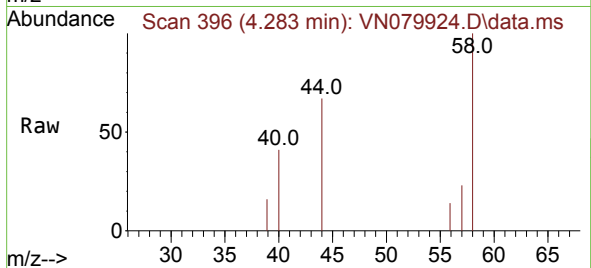
Tgt Ion: 59 Resp: 1191
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



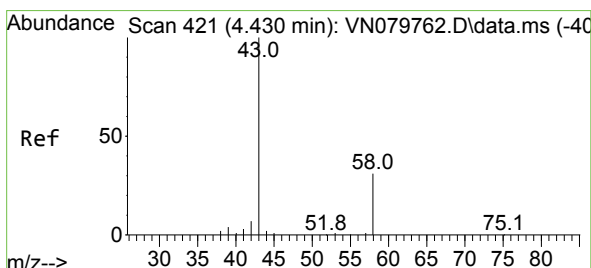
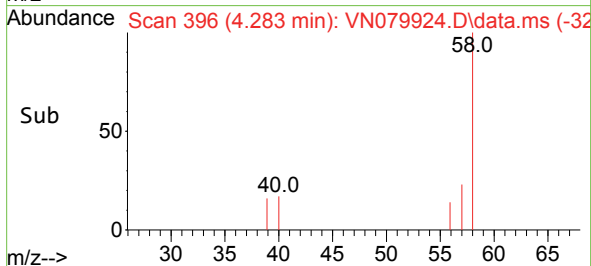
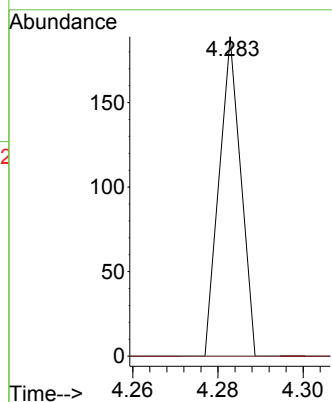


#13
Acrolein
Concen: 2.737 ug/l
RT: 4.283 min Scan# 396
Delta R.T. 0.100 min
Lab File: VN079924.D
Acq: 06 Nov 2023 15:45

Instrument :
MSVOA_N
ClientSampleId :

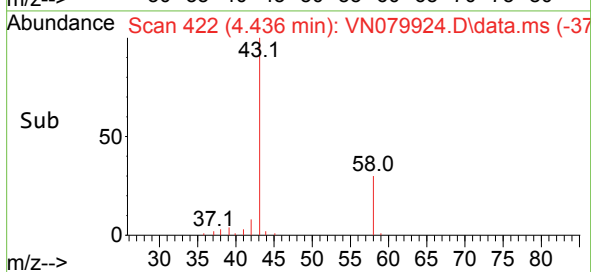
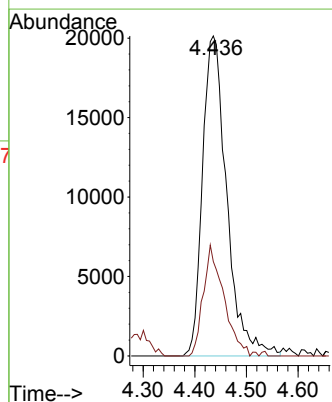
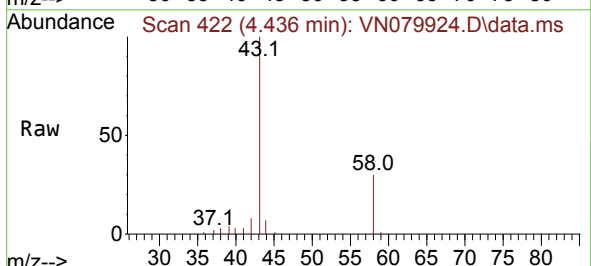


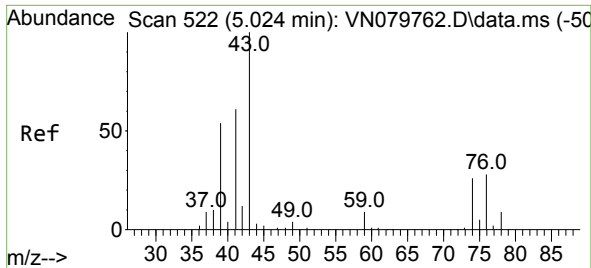
Tgt Ion: 56 Resp: 67
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#



#16
Acetone
Concen: 52.983 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.006 min
Lab File: VN079924.D
Acq: 06 Nov 2023 15:45

Tgt Ion: 43 Resp: 65526
Ion Ratio Lower Upper
43 100
58 29.9 28.0 42.0

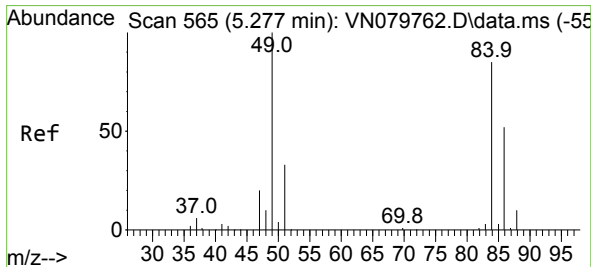
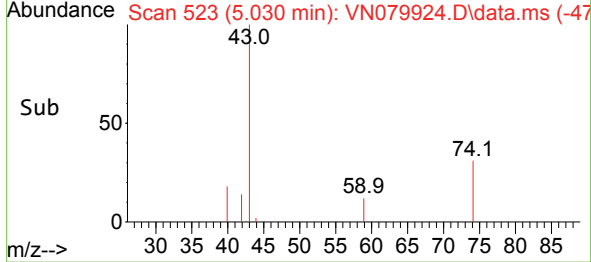
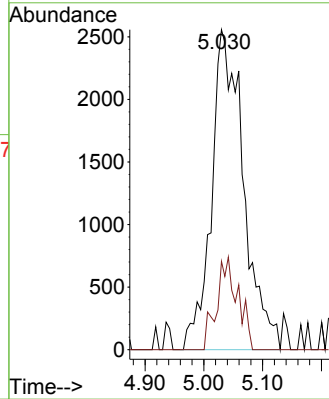
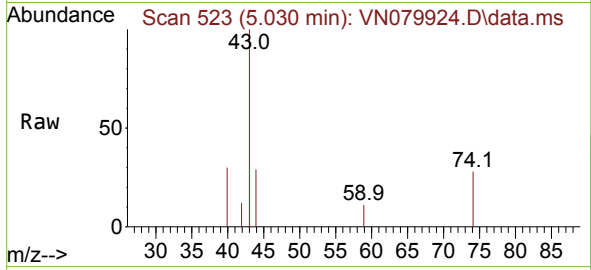




#18
Methyl Acetate
Concen: 1.632 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN079924.D
Acq: 06 Nov 2023 15:45

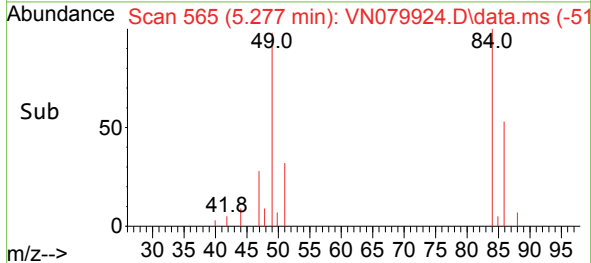
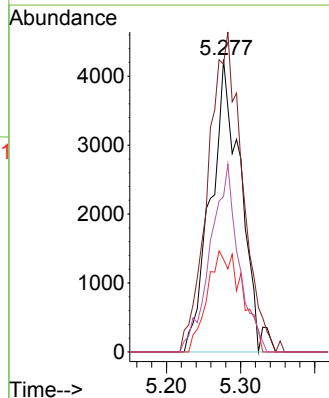
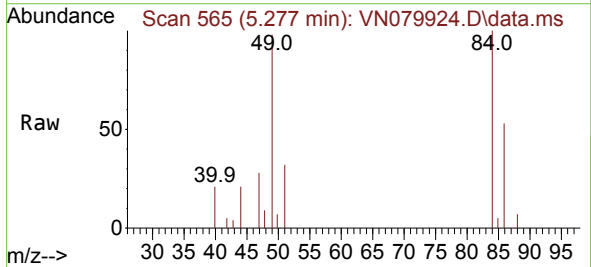
Instrument :
MSVOA_N
ClientSampleId :

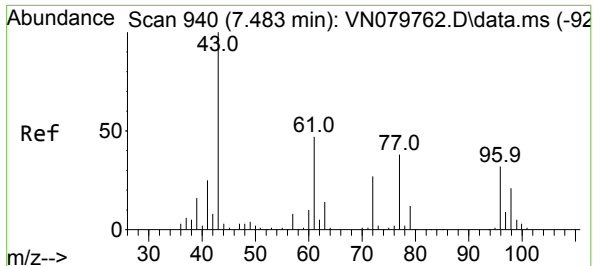
Tgt Ion: 43 Resp: 9654
Ion Ratio Lower Upper
43 100
74 19.3 26.2 39.4#



#20
Methylene Chloride
Concen: 3.829 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN079924.D
Acq: 06 Nov 2023 15:45

Tgt Ion: 84 Resp: 11949
Ion Ratio Lower Upper
84 100
49 98.5 79.7 119.5
51 31.7 25.2 37.8
86 53.3 53.3 79.9#

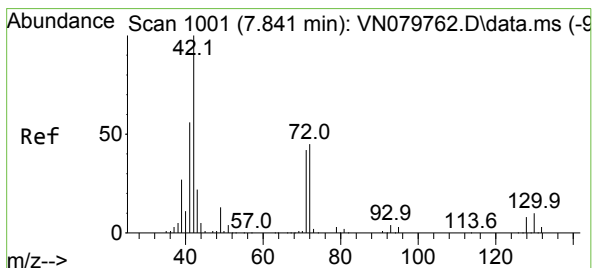
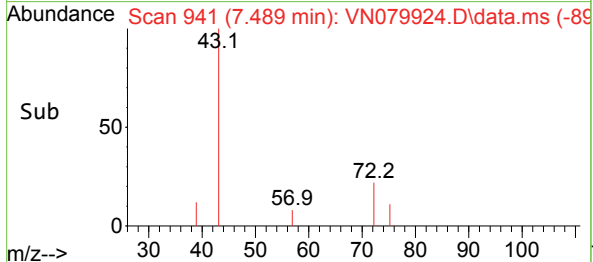
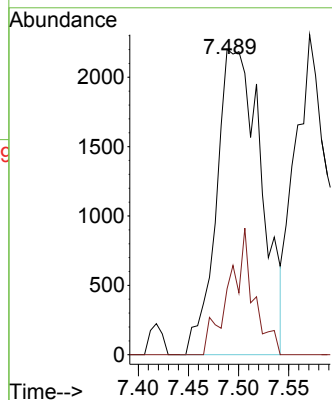
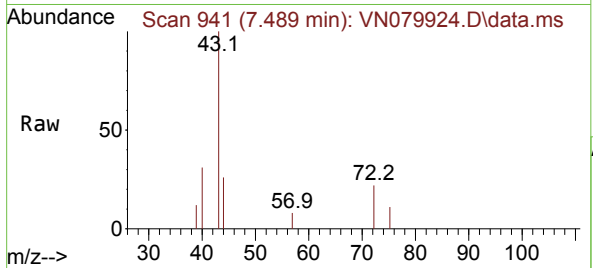




#25
2-Butanone
Concen: 3.777 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN079924.D
Acq: 06 Nov 2023 15:45

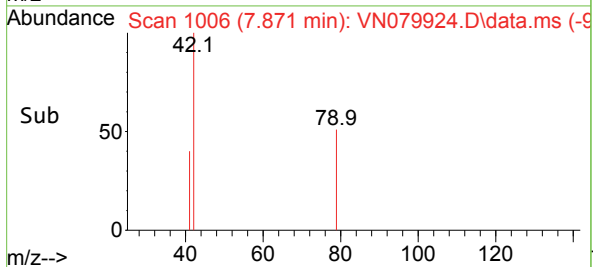
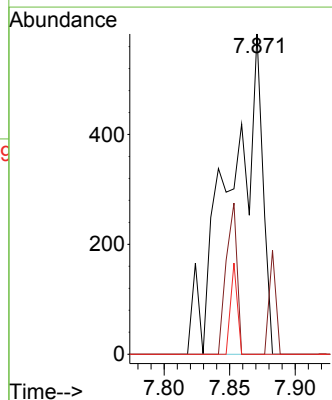
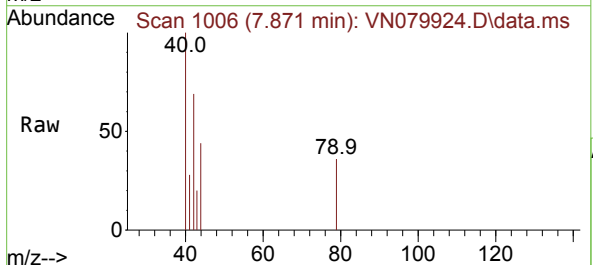
Instrument :
MSVOA_N
ClientSampleId :

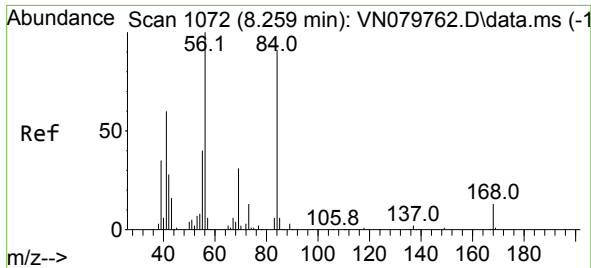
Tgt Ion: 43 Resp: 6840
Ion Ratio Lower Upper
43 100
72 21.6 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.855 ug/l
RT: 7.871 min Scan# 1006
Delta R.T. 0.030 min
Lab File: VN079924.D
Acq: 06 Nov 2023 15:45

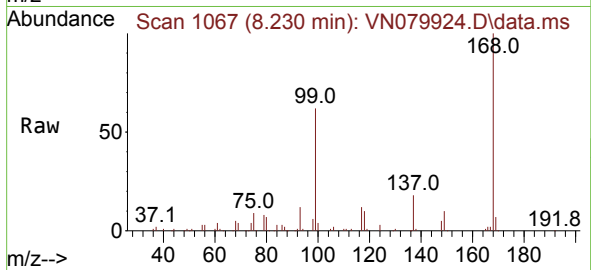
Tgt Ion: 42 Resp: 1008
Ion Ratio Lower Upper
42 100
72 6.6 49.8 74.6#
71 0.0 47.4 71.2#



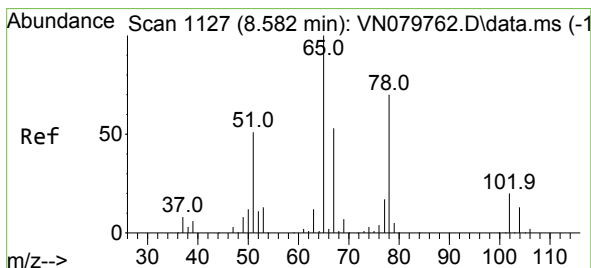
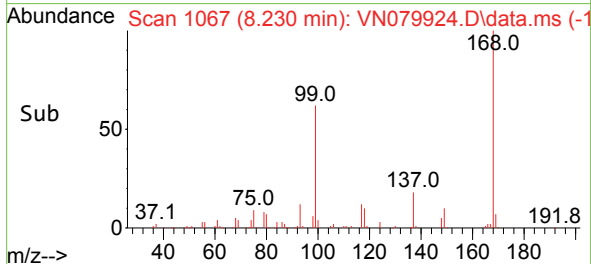
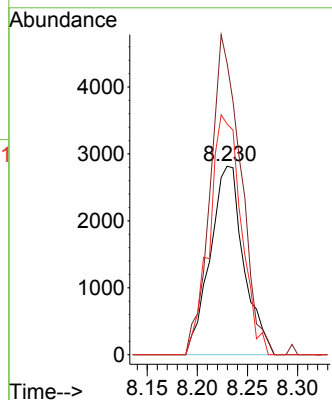


#31
Cyclohexane
Concen: 1.408 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN079924.D
Acq: 06 Nov 2023 15:45

Instrument :
MSVOA_N
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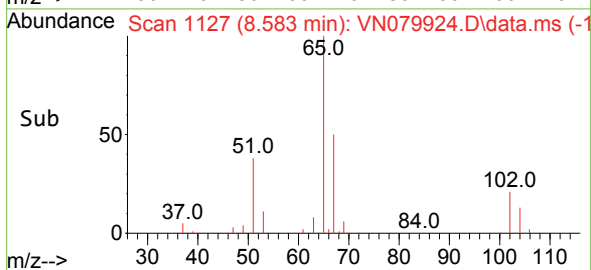
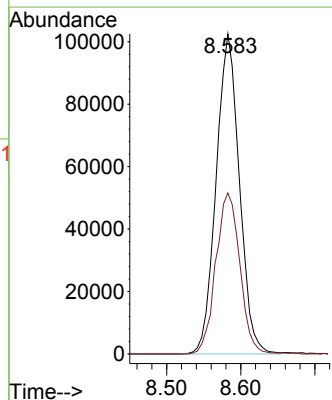
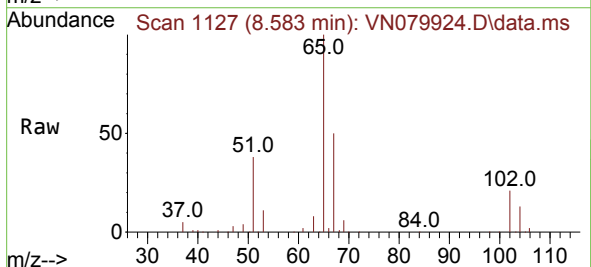


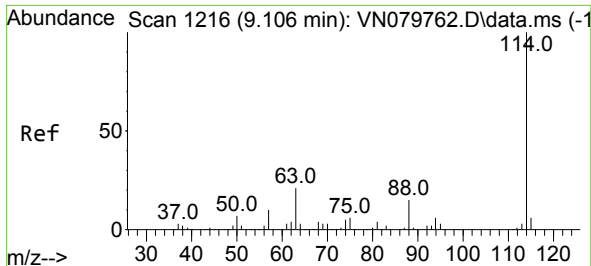
Tgt Ion: 56 Resp: 6552
Ion Ratio Lower Upper
56 100
69 154.6 26.8 40.2#
84 122.3 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 63.346 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN079924.D
Acq: 06 Nov 2023 15:45

Tgt Ion: 65 Resp: 223032
Ion Ratio Lower Upper
65 100
67 52.2 0.0 106.6

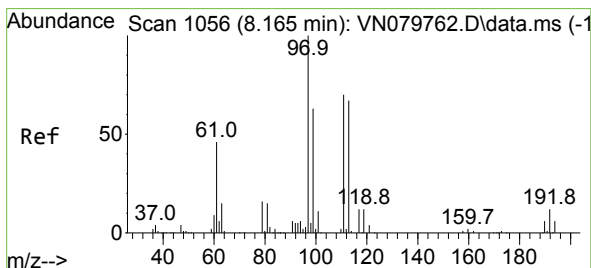
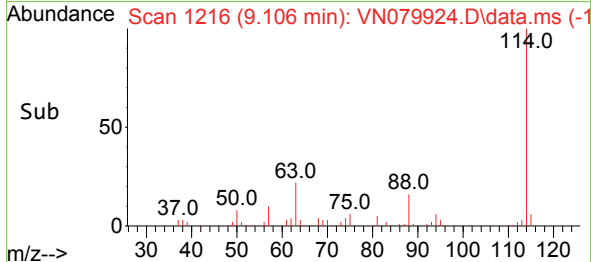
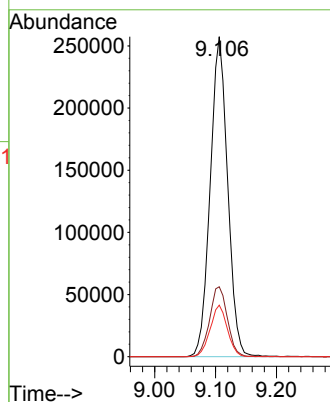
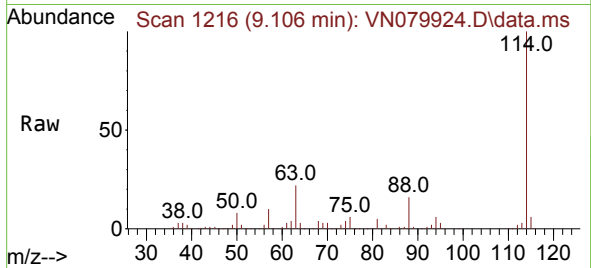




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN079924.D
Acq: 06 Nov 2023 15:45

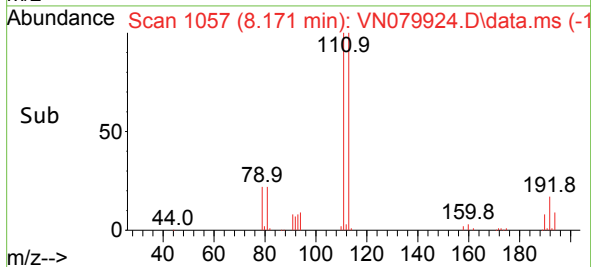
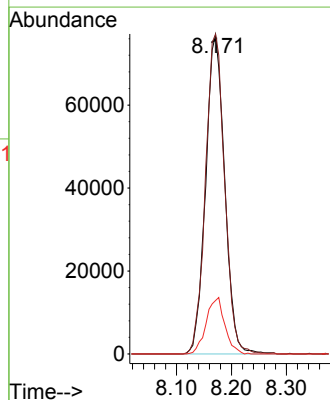
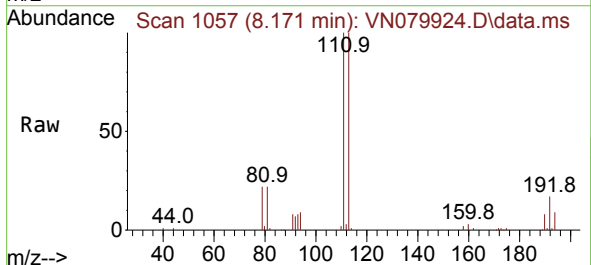
Instrument :
MSVOA_N
ClientSampleId :

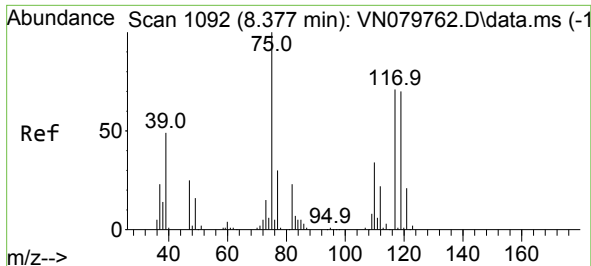
Tgt Ion:114 Resp: 511219
Ion Ratio Lower Upper
114 100
63 21.8 0.0 36.4
88 16.1 0.0 30.6



#35
Dibromofluoromethane
Concen: 51.061 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN079924.D
Acq: 06 Nov 2023 15:45

Tgt Ion:113 Resp: 184749
Ion Ratio Lower Upper
113 100
111 101.1 82.6 123.8
192 17.3 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.097 ug/l

RT: 8.236 min Scan# 1068

Delta R.T. -0.141 min

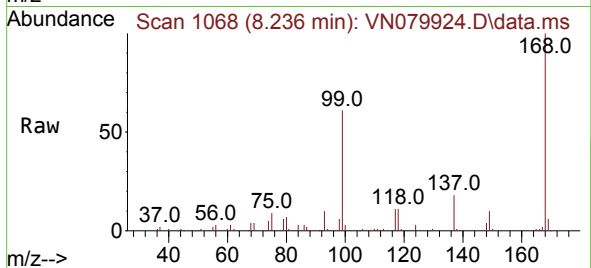
Lab File: VN079924.D

Acq: 06 Nov 2023 15:45

Instrument :

MSVOA_N

ClientSampleId :



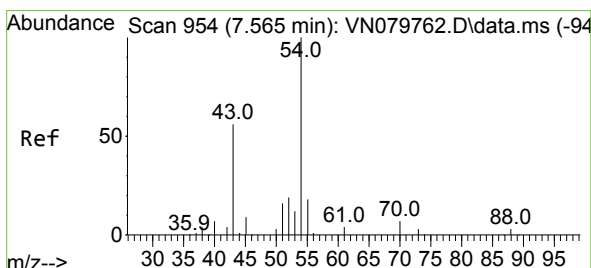
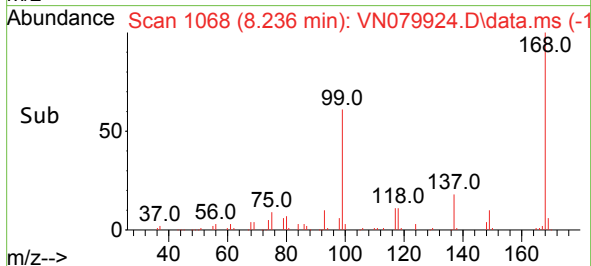
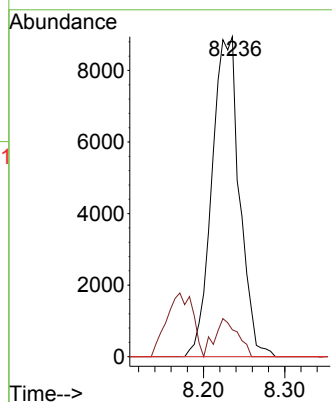
Tgt Ion: 75 Resp: 21167

Ion Ratio Lower Upper

75 100

110 9.8 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 1.223 ug/l

RT: 7.571 min Scan# 955

Delta R.T. 0.006 min

Lab File: VN079924.D

Acq: 06 Nov 2023 15:45

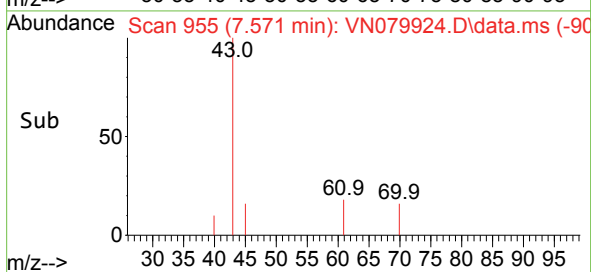
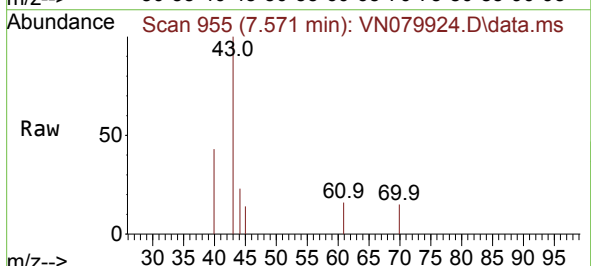
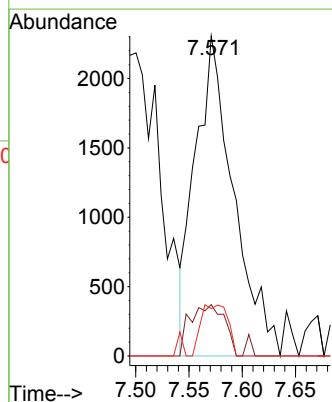
Tgt Ion: 43 Resp: 5794

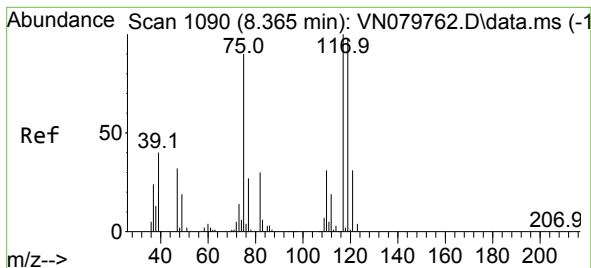
Ion Ratio Lower Upper

43 100

61 14.4 13.2 19.8

70 11.2 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 5.016 ug/l

RT: 8.230 min Scan# 1107

Delta R.T. -0.129 min

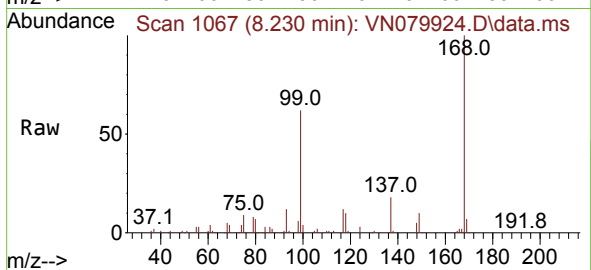
Lab File: VN079924.D

Acq: 06 Nov 2023 15:45

Instrument :

MSVOA_N

ClientSampleId :



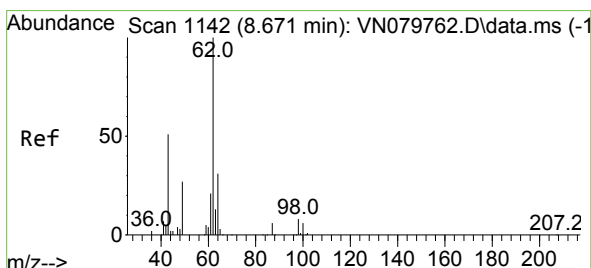
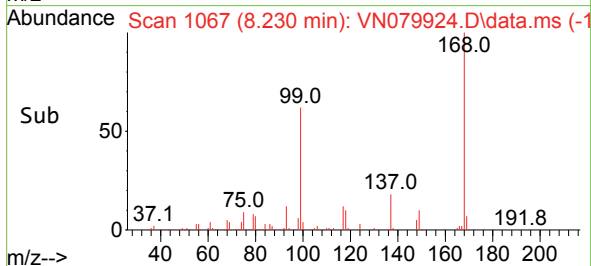
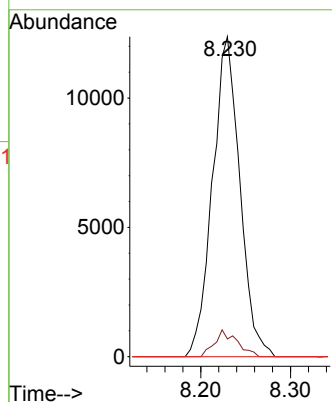
Tgt Ion:117 Resp: 26118

Ion Ratio Lower Upper

117 100

119 5.6 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.209 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.018 min

Lab File: VN079924.D

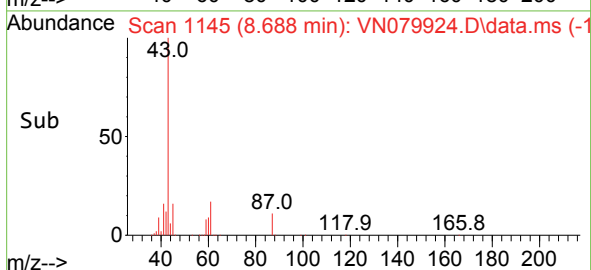
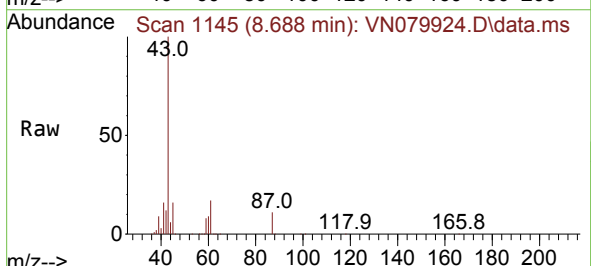
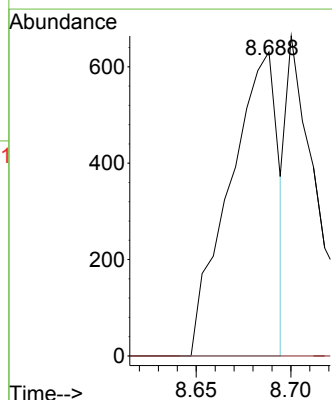
Acq: 06 Nov 2023 15:45

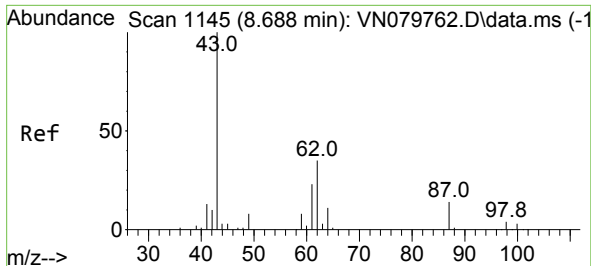
Tgt Ion: 62 Resp: 1131

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

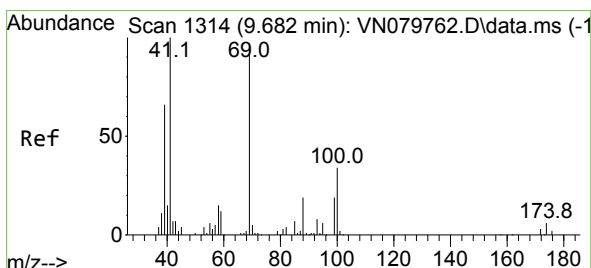
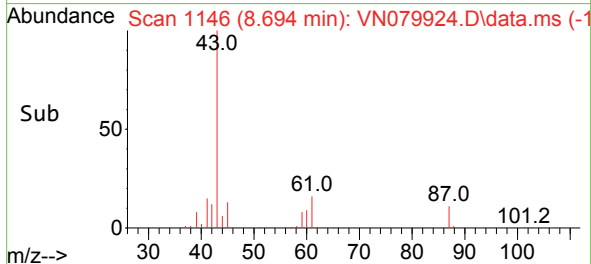
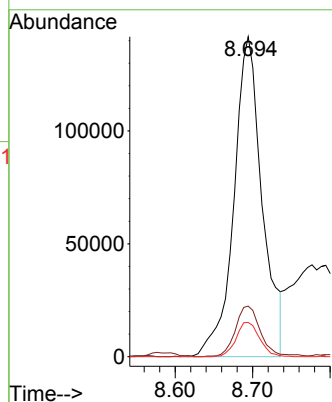
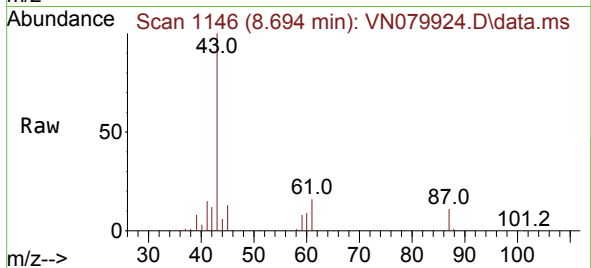




#43
Isopropyl Acetate
Concen: 43.271 ug/l
RT: 8.694 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN079924.D
Acq: 06 Nov 2023 15:45

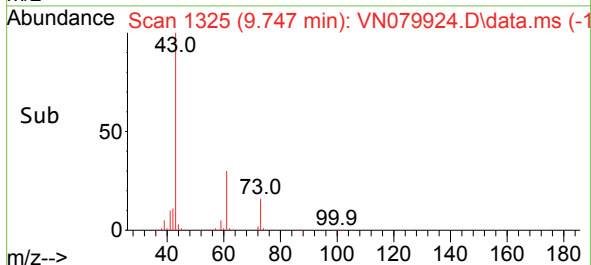
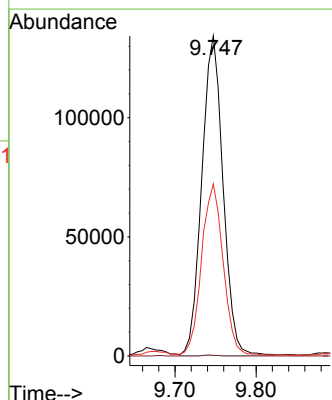
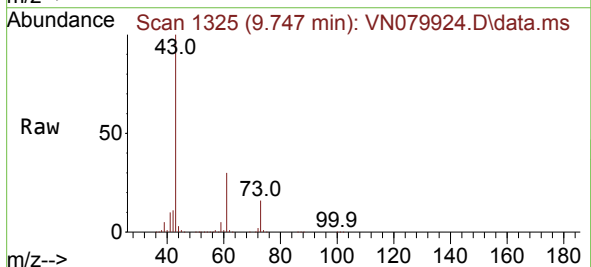
Instrument :
MSVOA_N
ClientSampleId :

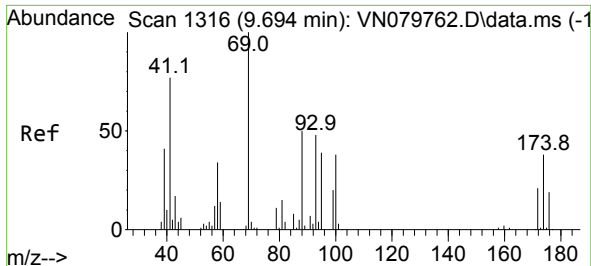
Tgt Ion: 43 Resp: 359543
Ion Ratio Lower Upper
43 100
61 14.2 24.7 37.1#
87 9.0 14.6 21.8#



#48
Methyl methacrylate
Concen: 67.004 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.065 min
Lab File: VN079924.D
Acq: 06 Nov 2023 15:45

Tgt Ion: 41 Resp: 243859
Ion Ratio Lower Upper
41 100
69 0.2 90.4 135.6#
39 55.2 54.6 81.8





#49

1,4-Dioxane

Concen: 4.167 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.047 min

Lab File: VN079924.D

Acq: 06 Nov 2023 15:45

Instrument :

MSVOA_N

ClientSampleId :

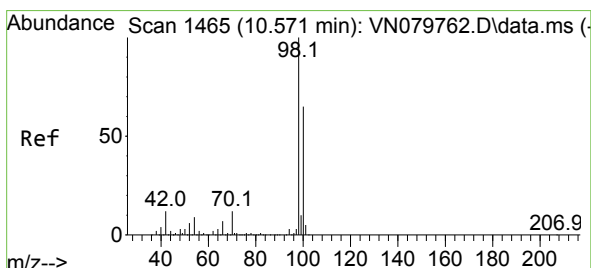
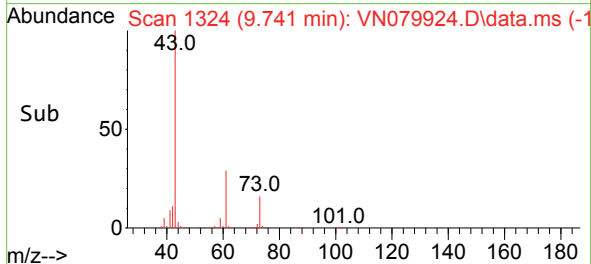
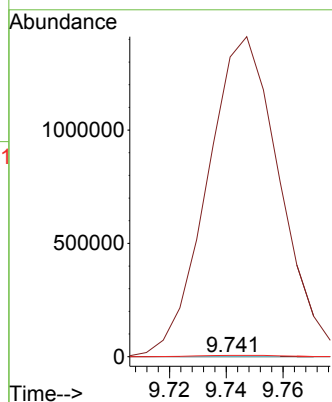
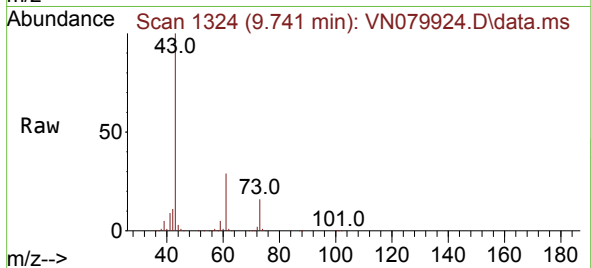
Tgt Ion: 88 Resp: 268

Ion Ratio Lower Upper

88 100

43 944350.4 17.0 25.6#

58 4730.6 47.0 70.4#



#50

Toluene-d8

Concen: 52.079 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN079924.D

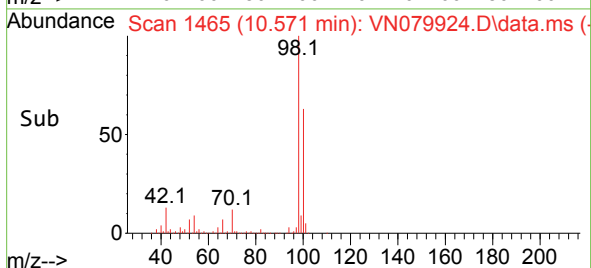
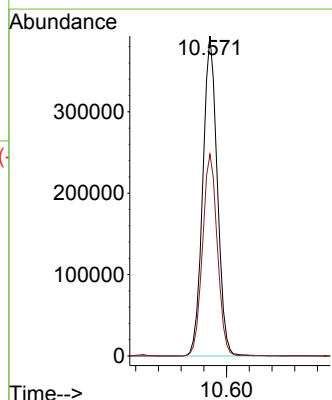
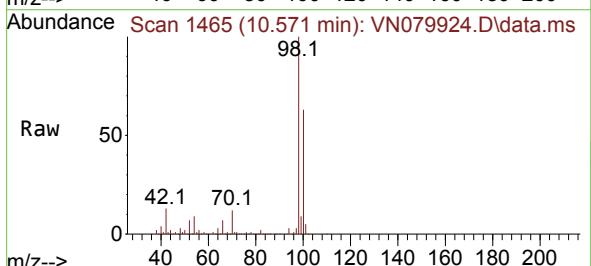
Acq: 06 Nov 2023 15:45

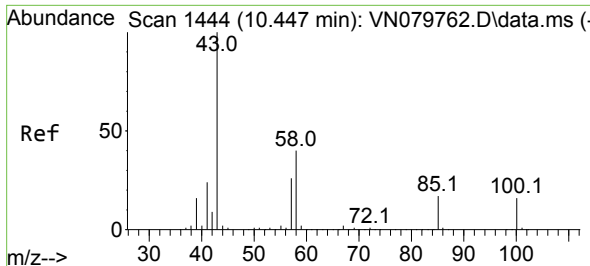
Tgt Ion: 98 Resp: 693691

Ion Ratio Lower Upper

98 100

100 64.5 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 4.915 ug/l

RT: 10.447 min Scan# 14

Delta R.T. 0.000 min

Lab File: VN079924.D

Acq: 06 Nov 2023 15:45

Instrument :

MSVOA_N

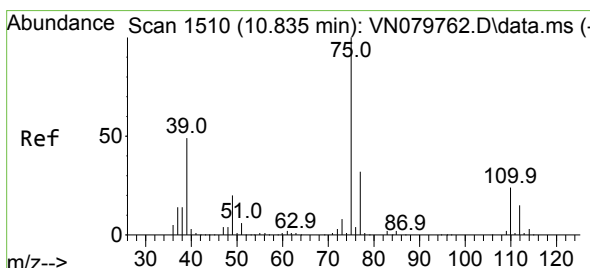
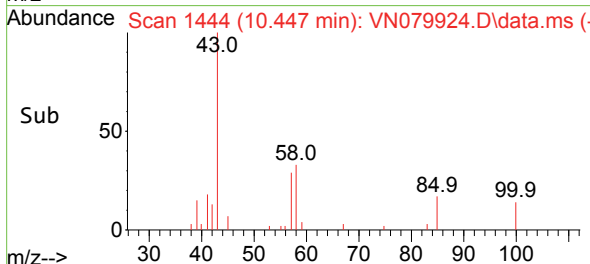
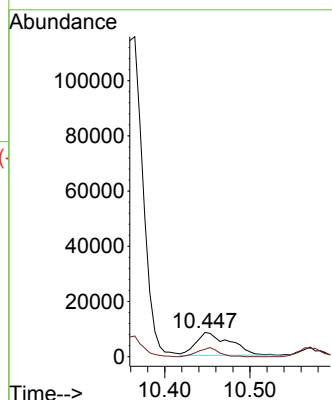
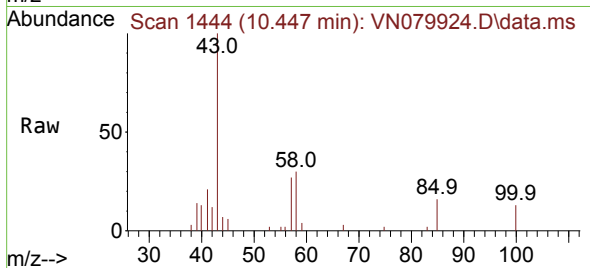
ClientSampleId :

Tgt Ion: 43 Resp: 22991

Ion Ratio Lower Upper

43 100

58 24.2 36.6 54.8#



#53

t-1,3-Dichloropropene

Concen: 0.331 ug/l

RT: 10.735 min Scan# 1493

Delta R.T. -0.106 min

Lab File: VN079924.D

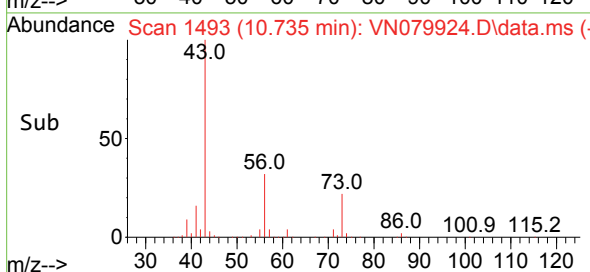
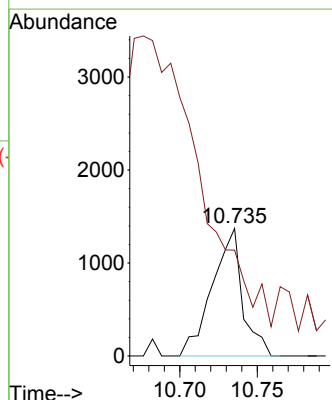
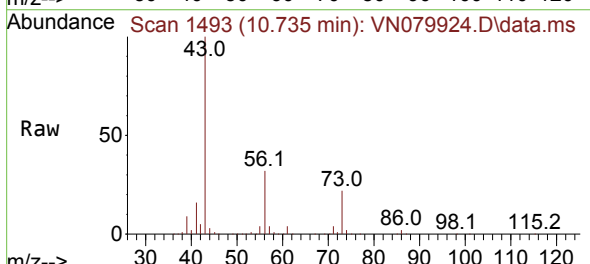
Acq: 06 Nov 2023 15:45

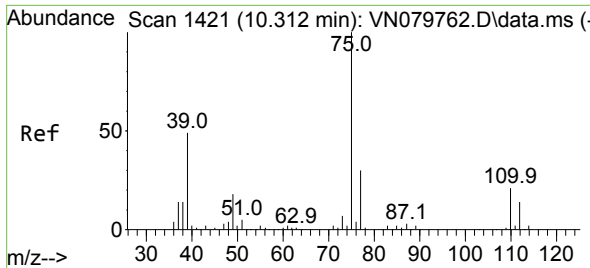
Tgt Ion: 75 Resp: 1868

Ion Ratio Lower Upper

75 100

77 28.6 25.4 38.0

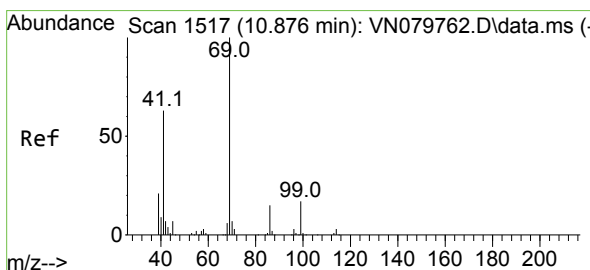
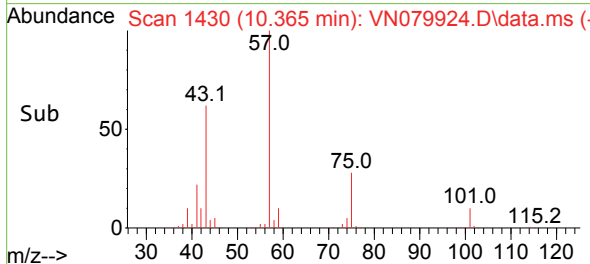
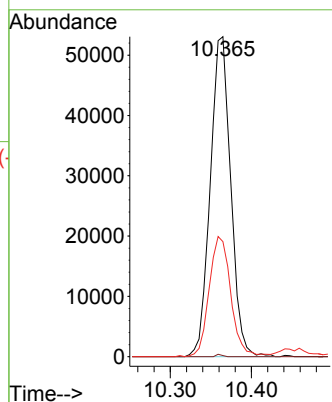
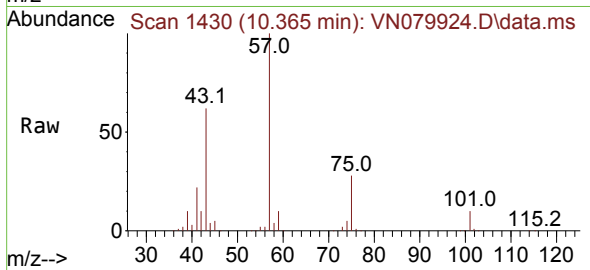




#54
 cis-1,3-Dichloropropene
 Concen: 15.103 ug/l
 RT: 10.365 min Scan# 1421
 Delta R.T. 0.047 min
 Lab File: VN079924.D
 Acq: 06 Nov 2023 15:45

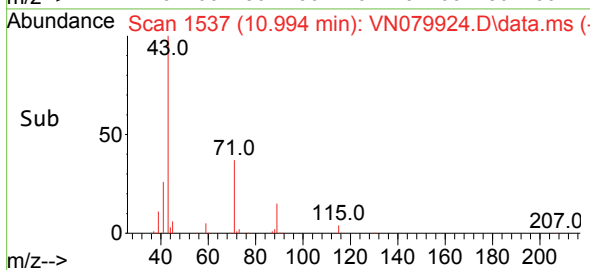
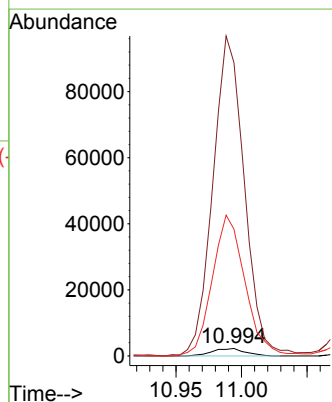
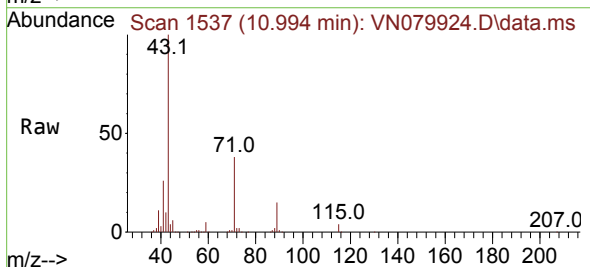
Instrument :
 MSVOA_N
 ClientSampleId :

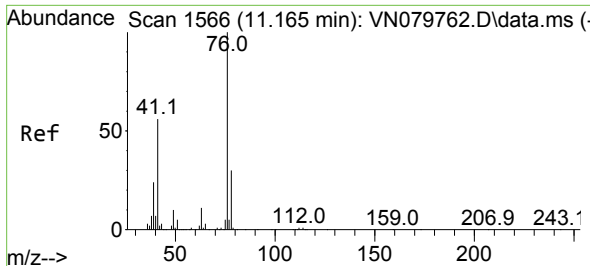
Tgt Ion: 75 Resp: 92927
 Ion Ratio Lower Upper
 75 100
 77 0.4 26.1 39.1#
 39 35.6 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.758 ug/l
 RT: 10.994 min Scan# 1537
 Delta R.T. 0.118 min
 Lab File: VN079924.D
 Acq: 06 Nov 2023 15:45

Tgt Ion: 69 Resp: 3991
 Ion Ratio Lower Upper
 69 100
 41 4054.7 39.6 59.4#
 39 1855.5 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.989 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

Lab File: VN079924.D

Acq: 06 Nov 2023 15:45

Instrument :

MSVOA_N

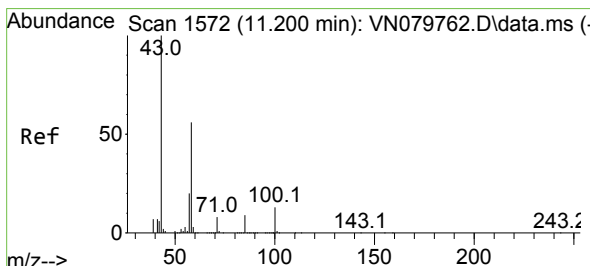
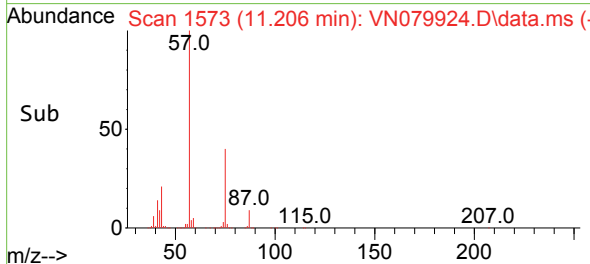
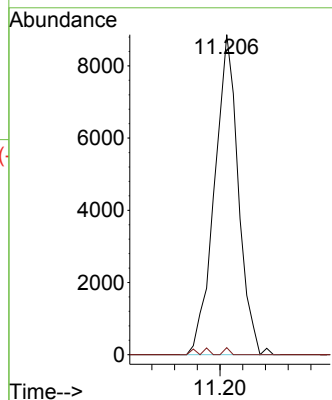
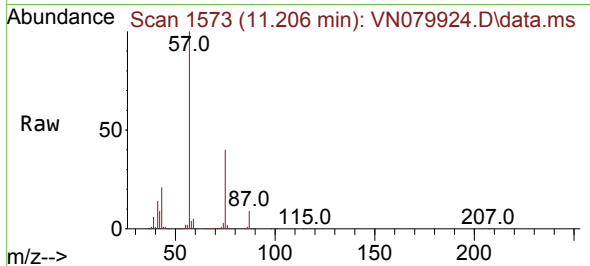
ClientSampleId :

Tgt Ion: 76 Resp: 12935

Ion Ratio Lower Upper

76 100

78 0.5 26.1 39.1#



#59

2-Hexanone

Concen: 43.567 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.006 min

Lab File: VN079924.D

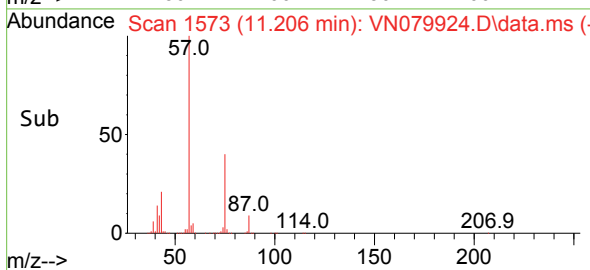
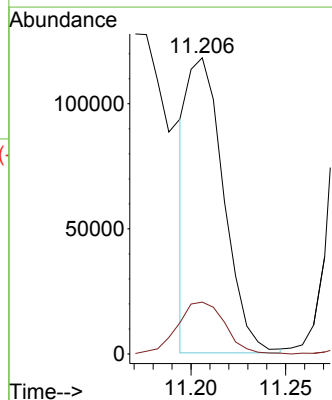
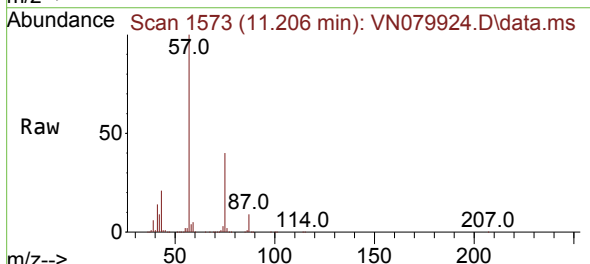
Acq: 06 Nov 2023 15:45

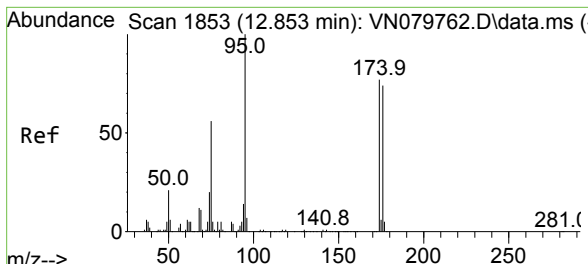
Tgt Ion: 43 Resp: 155910

Ion Ratio Lower Upper

43 100

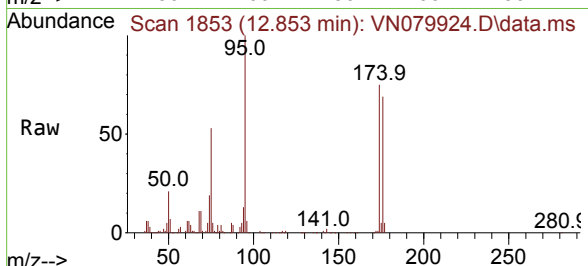
58 23.2 31.7 95.1#



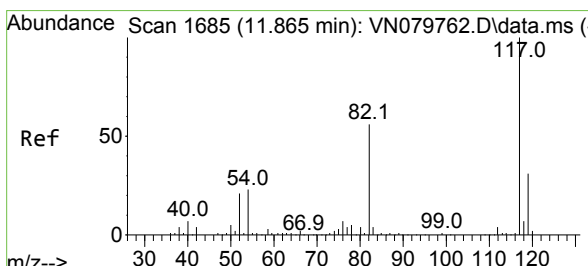
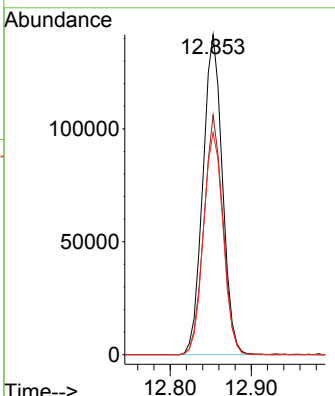
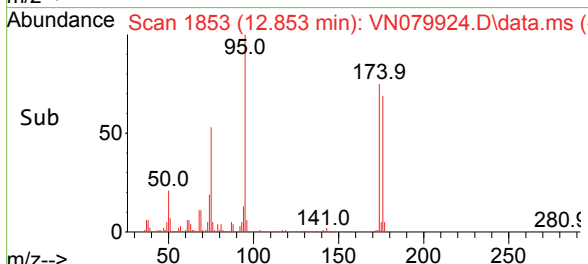


#62
 4-Bromofluorobenzene
 Concen: 53.372 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.000 min
 Lab File: VN079924.D
 Acq: 06 Nov 2023 15:45

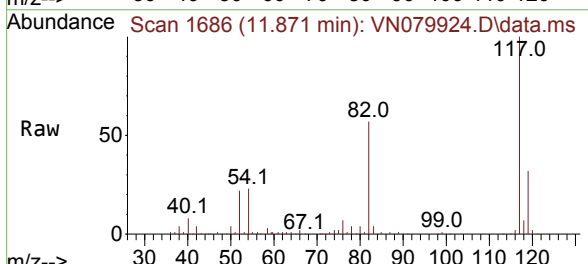
Instrument :
 MSVOA_N
 ClientSampleId :



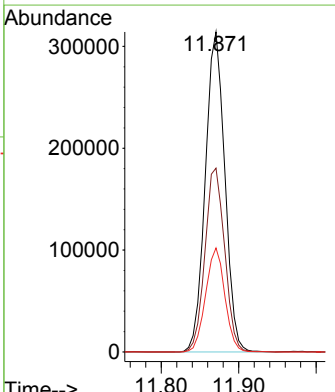
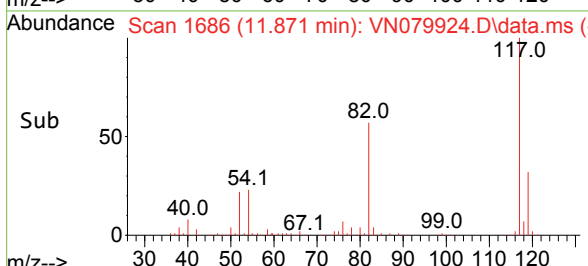
Tgt Ion:	95	Resp:	235772
Ion	Ratio	Lower	Upper
95	100		
174	73.5	0.0	143.8
176	70.4	0.0	135.8

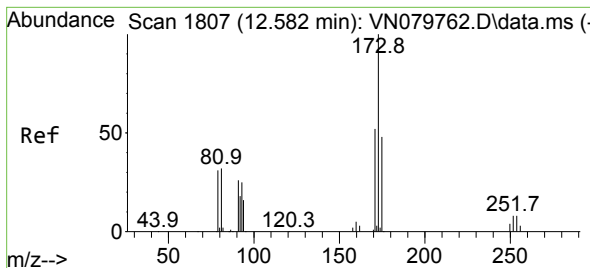


#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.871 min Scan# 1686
 Delta R.T. 0.000 min
 Lab File: VN079924.D
 Acq: 06 Nov 2023 15:45



Tgt Ion:	117	Resp:	549890
Ion	Ratio	Lower	Upper
117	100		
82	57.5	44.0	66.0
119	32.5	25.6	38.4





#71

Bromoform

Concen: 0.563 ug/l

RT: 12.853 min Scan# 1807

Delta R.T. 0.271 min

Lab File: VN079924.D

Acq: 06 Nov 2023 15:45

Instrument :

MSVOA_N

ClientSampleId :

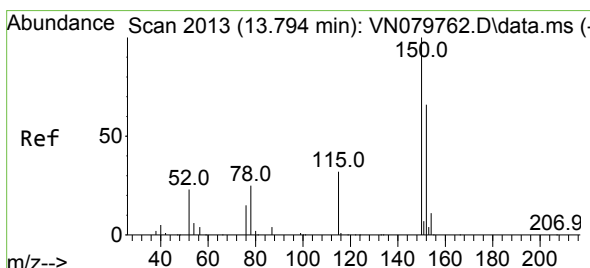
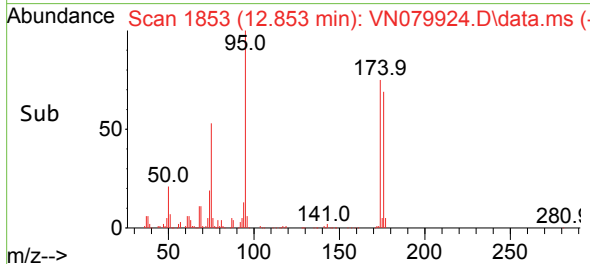
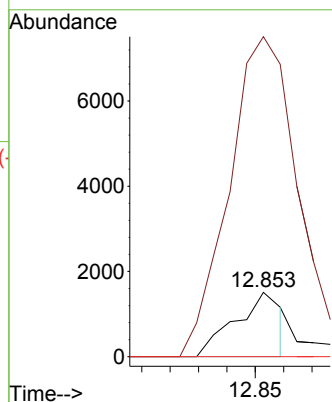
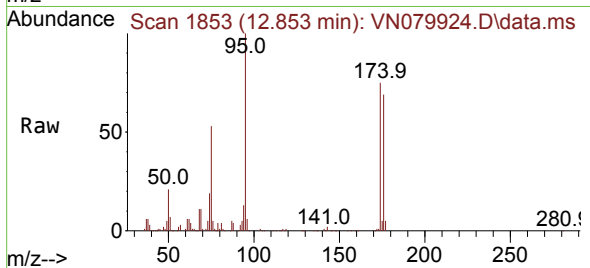
Tgt Ion:173 Resp: 1718

Ion Ratio Lower Upper

173 100

175 581.1 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: VN079924.D

Acq: 06 Nov 2023 15:45

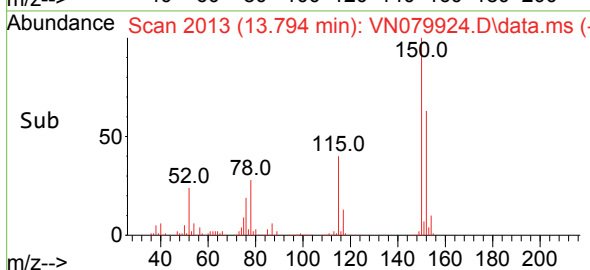
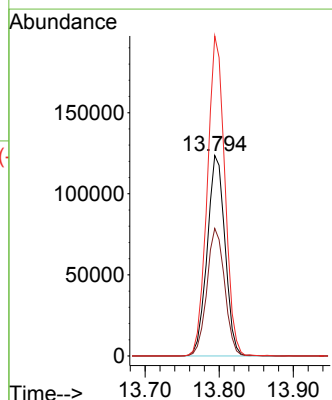
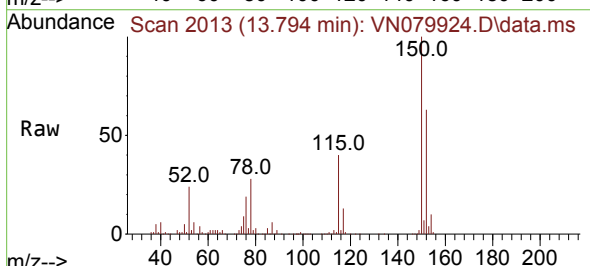
Tgt Ion:152 Resp: 206396

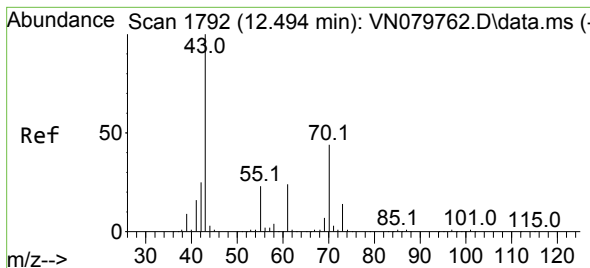
Ion Ratio Lower Upper

152 100

115 63.4 32.3 96.8

150 156.9 0.0 355.8





#74

N-amy1 acetate

Concen: 0.300 ug/l

RT: 12.488 min Scan# 1

Delta R.T. -0.006 min

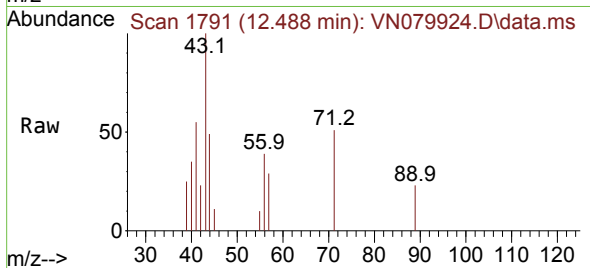
Lab File: VN079924.D

Acq: 06 Nov 2023 15:45

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 2052

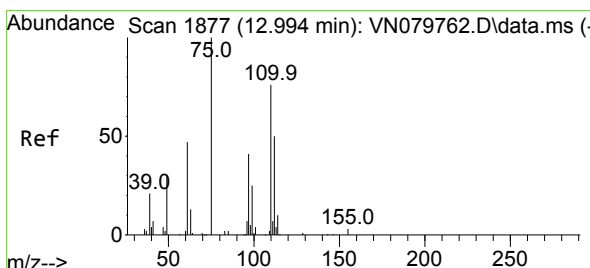
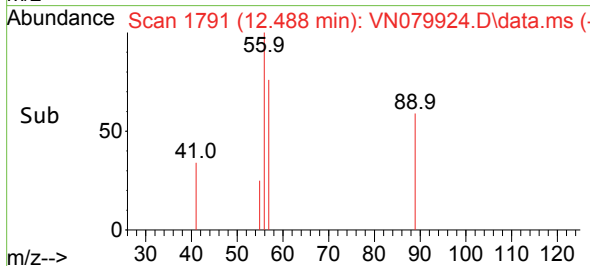
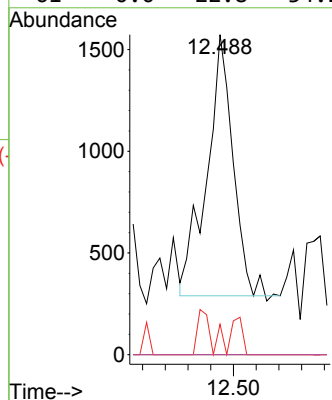
Ion Ratio Lower Upper

43 100

70 0.0 43.4 65.2#

55 6.0 21.4 32.0#

61 0.0 22.8 34.2#



#76

1,2,3-Trichloropropane

Concen: 26.290 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN079924.D

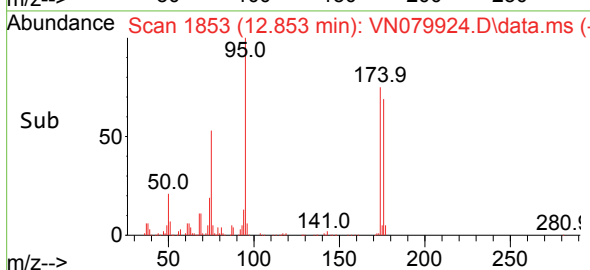
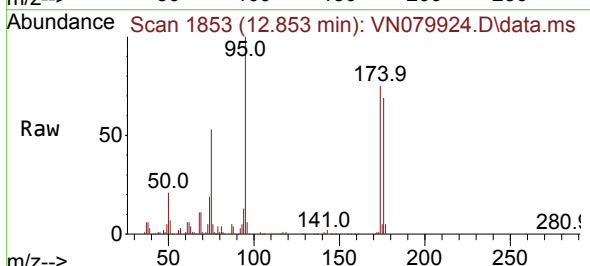
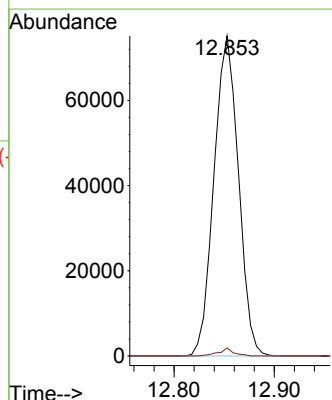
Acq: 06 Nov 2023 15:45

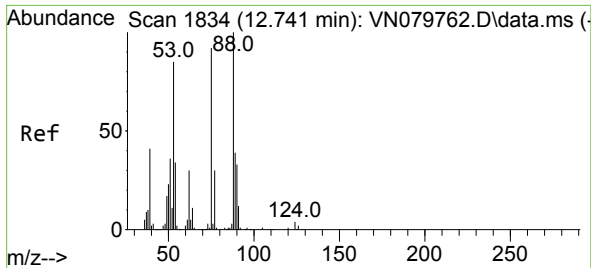
Tgt Ion: 75 Resp: 127388

Ion Ratio Lower Upper

75 100

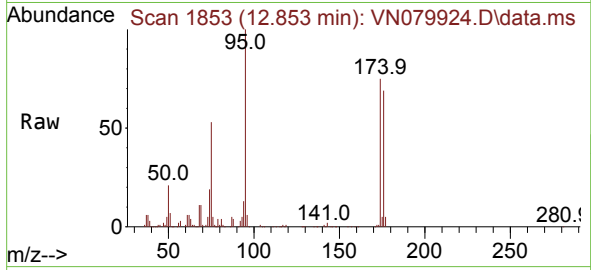
77 1.5 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.528 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.118 min
 Lab File: VN079924.D
 Acq: 06 Nov 2023 15:45

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 127388
 Ion Ratio Lower Upper
 75 100
 53 0.2 67.4 101.2#
 89 0.0 38.8 58.2#

