

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042423\
 Data File : VN077457.D
 Acq On : 25 Apr 2023 08:54
 Operator : JC\MD
 Sample : 02464-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-92

Quant Time: Apr 25 09:29:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042423W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:50:59 2023
 Response via : Initial Calibration

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

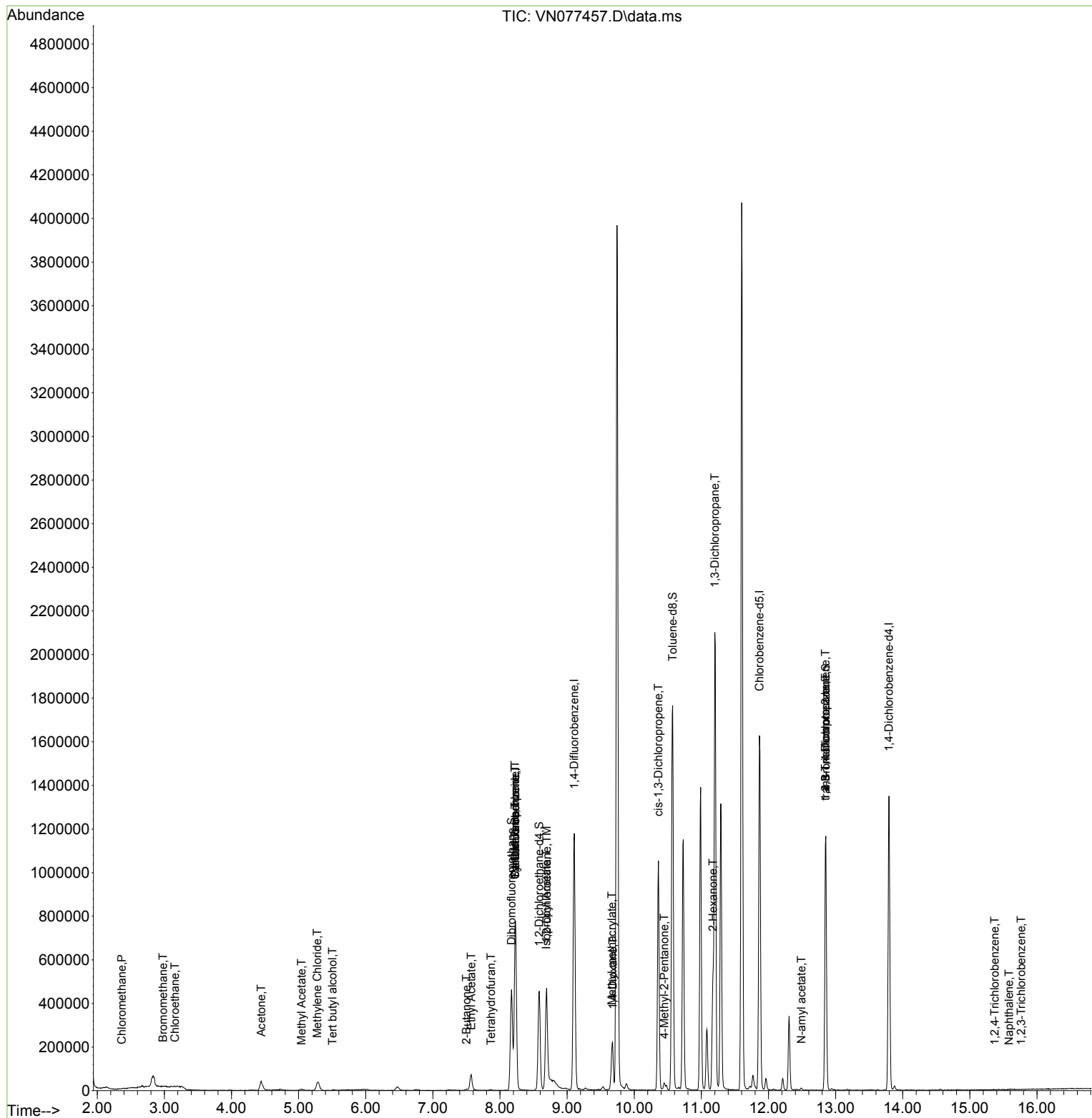
Internal Standards						
1) Pentafluorobenzene	8.231	168	567050	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1079008	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	1003449	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	358232	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	372410	50.330	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 100.660%	
35) Dibromofluoromethane	8.172	113	326834	50.396	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 100.800%	
50) Toluene-d8	10.572	98	1324741	53.298	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 106.600%	
62) 4-Bromofluorobenzene	12.854	95	418730	51.491	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 102.980%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.366	50	1191	0.210	ug/l #	42
5) Bromomethane	2.978	94	1902	0.290	ug/l #	42
6) Chloroethane	3.160	64	2526	0.439	ug/l #	43
11) Tert butyl alcohol	5.507	59	555	0.467	ug/l #	64
16) Acetone	4.443	43	73933	31.407	ug/l	89
18) Methyl Acetate	5.043	43	10757	1.183	ug/l #	83
20) Methylene Chloride	5.278	84	34829	4.665	ug/l #	84
25) 2-Butanone	7.501	43	7484	2.242	ug/l	99
29) Tetrahydrofuran	7.866	42	2010	0.961	ug/l #	72
31) Cyclohexane	8.225	56	13306	1.269	ug/l #	46
36) 1,1-Dichloropropene	8.225	75	47396	5.059	ug/l #	40
37) Ethyl Acetate	7.572	43	93699	13.161	ug/l	95
38) Carbon Tetrachloride	8.225	117	62456	6.042	ug/l #	15
42) 1,2-Dichloroethane	8.695	62	4021	0.410	ug/l #	73
43) Isopropyl Acetate	8.689	43	551145	44.747	ug/l #	84
48) Methyl methacrylate	9.666	41	10744	1.916	ug/l #	3
49) 1,4-Dioxane	9.684	88	358	2.546	ug/l #	1
51) 4-Methyl-2-Pentanone	10.448	43	16129	2.233	ug/l #	85
54) cis-1,3-Dichloropropene	10.360	75	213708	18.477	ug/l #	61
57) 1,3-Dichloropropane	11.201	76	25545	2.133	ug/l #	43
59) 2-Hexanone	11.172	43	372777	70.986	ug/l #	19
74) N-amyl acetate	12.489	43	3188	0.324	ug/l #	39
76) 1,2,3-Trichloropropane	12.848	75	231309	27.767	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.848	75	231309	78.447	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.371	180	62	0.821	ug/l #	14
95) Naphthalene	15.583	128	782	1.222	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.765	180	55	0.496	ug/l #	1

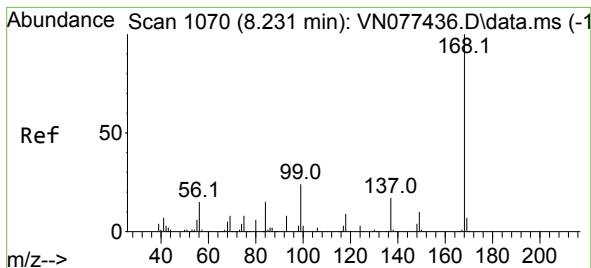
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.231 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN077457.D

Acq: 25 Apr 2023 08:54

Instrument :

MSVOA_N

ClientSampleId :

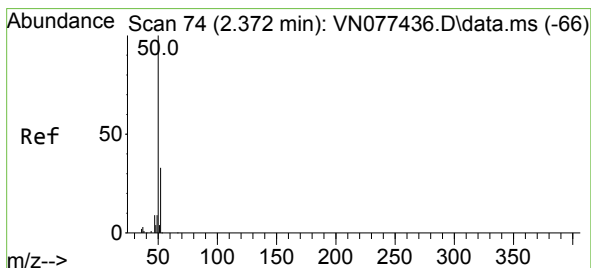
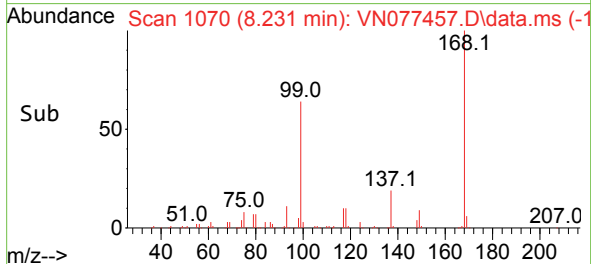
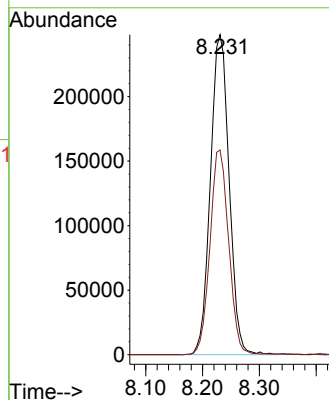
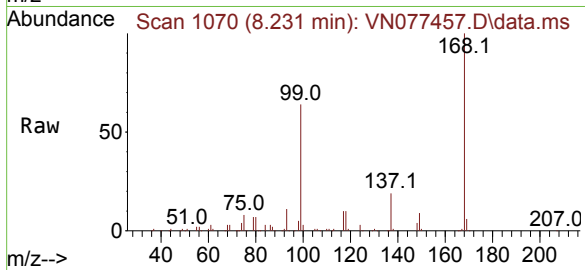
MH-92

Tgt Ion:168 Resp: 567050

Ion Ratio Lower Upper

168 100

99 63.9 53.0 79.6



#3

Chloromethane

Concen: 0.210 ug/l

RT: 2.366 min Scan# 73

Delta R.T. -0.006 min

Lab File: VN077457.D

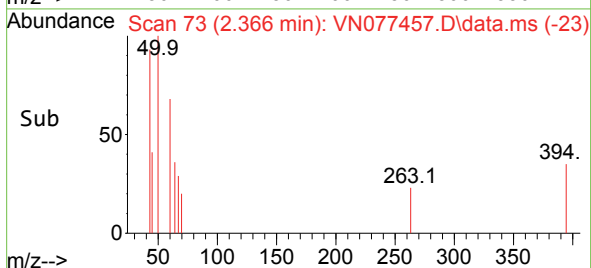
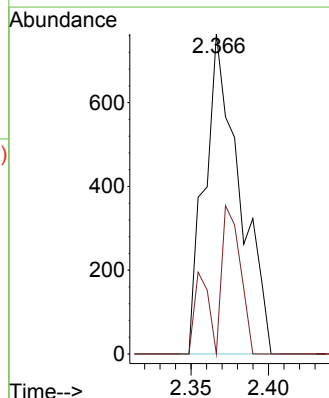
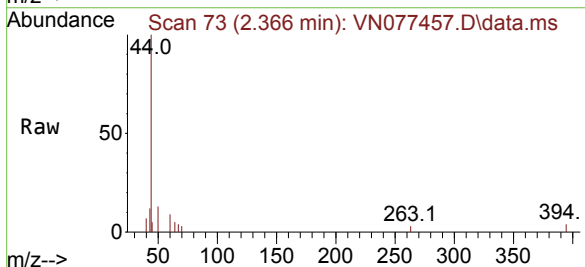
Acq: 25 Apr 2023 08:54

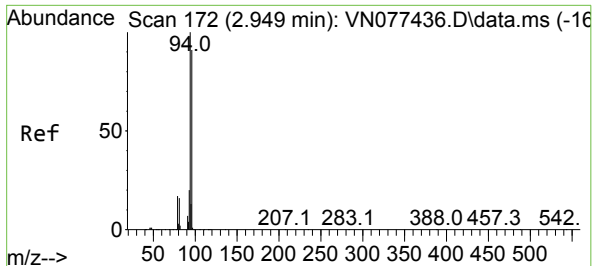
Tgt Ion: 50 Resp: 1191

Ion Ratio Lower Upper

50 100

52 0.0 26.5 39.7#

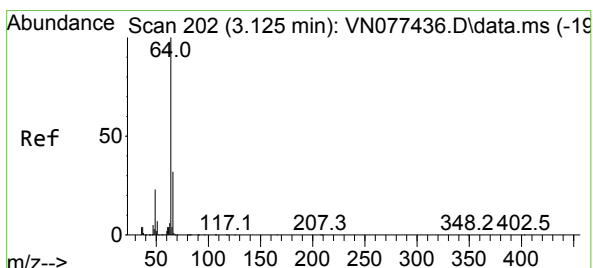
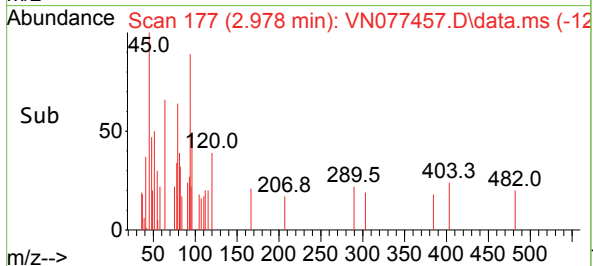
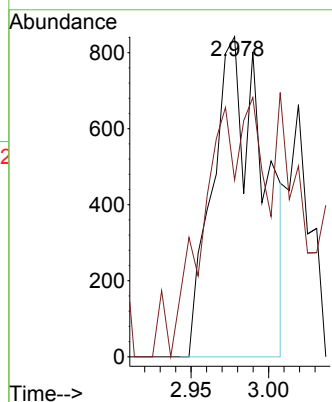
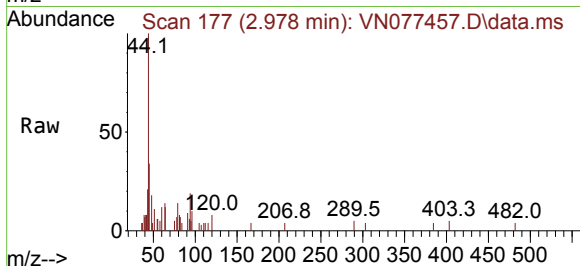




#5
Bromomethane
Concen: 0.290 ug/l
RT: 2.978 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN077457.D
Acq: 25 Apr 2023 08:54

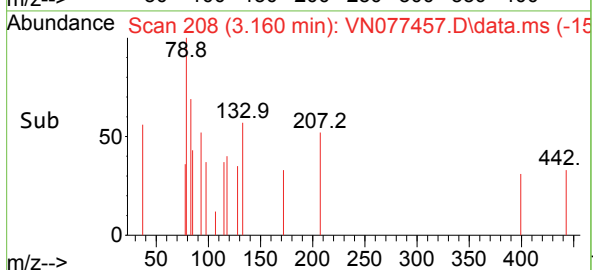
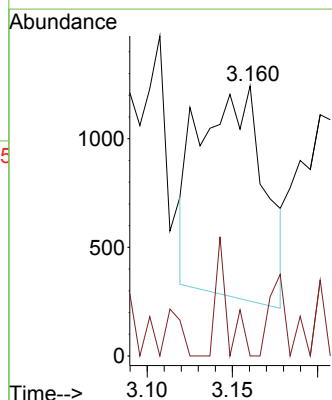
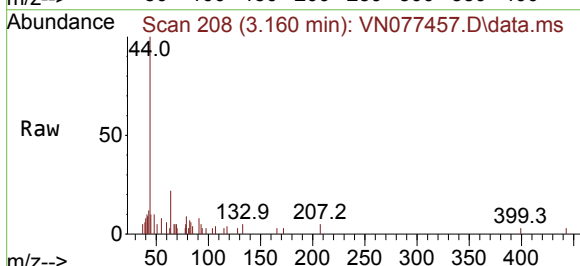
Instrument :
MSVOA_N
ClientSampleId :
MH-92

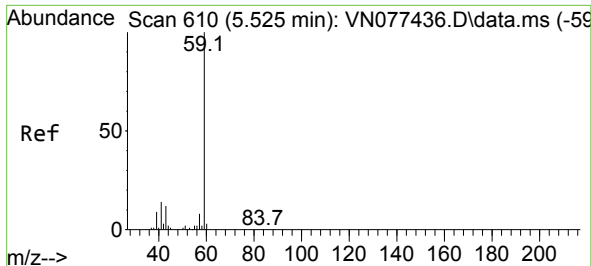
Tgt Ion: 94 Resp: 1902
Ion Ratio Lower Upper
94 100
96 36.7 73.1 109.7#



#6
Chloroethane
Concen: 0.439 ug/l
RT: 3.160 min Scan# 208
Delta R.T. 0.035 min
Lab File: VN077457.D
Acq: 25 Apr 2023 08:54

Tgt Ion: 64 Resp: 2526
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#





#11

Tert butyl alcohol

Concen: 0.467 ug/l

RT: 5.507 min Scan# 610

Delta R.T. -0.018 min

Lab File: VN077457.D

Acq: 25 Apr 2023 08:54

Instrument :

MSVOA_N

ClientSampleId :

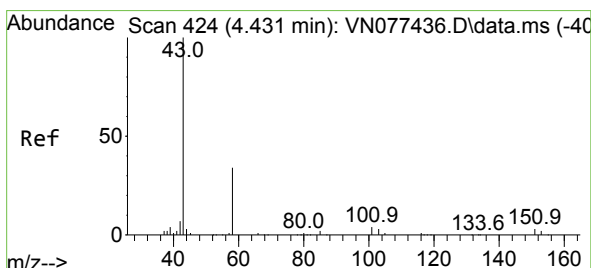
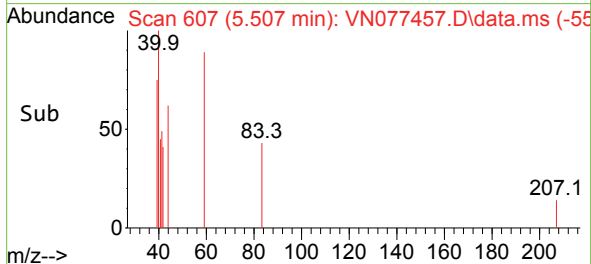
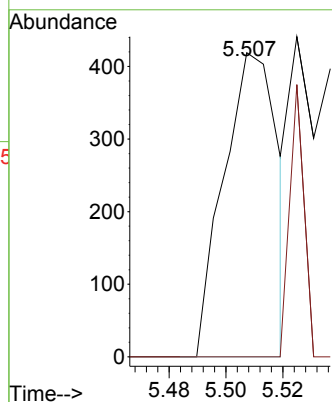
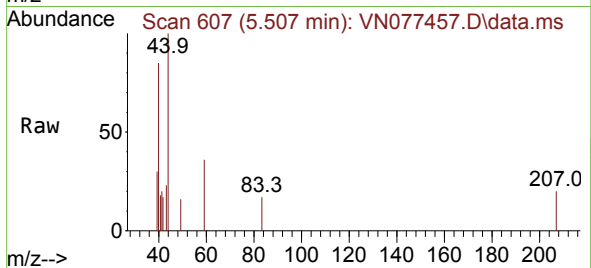
MH-92

Tgt Ion: 59 Resp: 555

Ion Ratio Lower Upper

59 100

57 23.8 8.2 12.4#



#16

Acetone

Concen: 31.407 ug/l

RT: 4.443 min Scan# 426

Delta R.T. 0.012 min

Lab File: VN077457.D

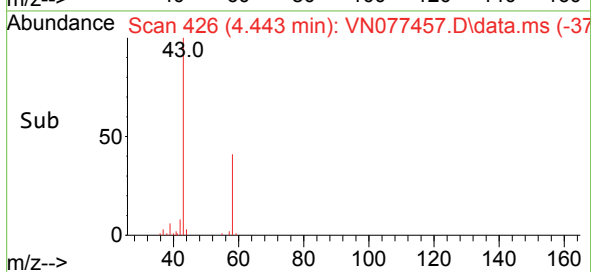
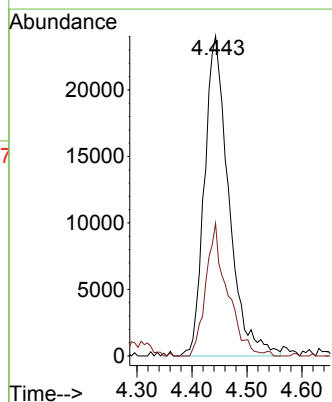
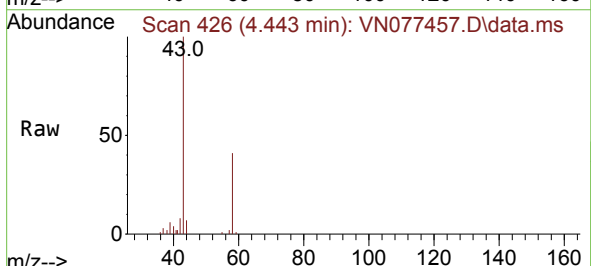
Acq: 25 Apr 2023 08:54

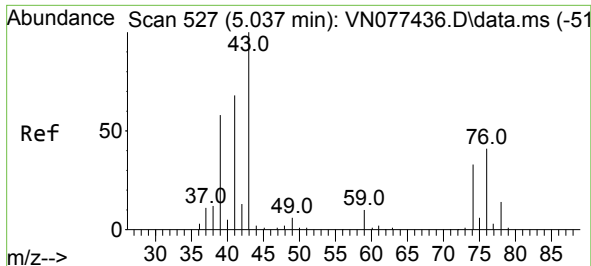
Tgt Ion: 43 Resp: 73933

Ion Ratio Lower Upper

43 100

58 41.5 28.0 42.0

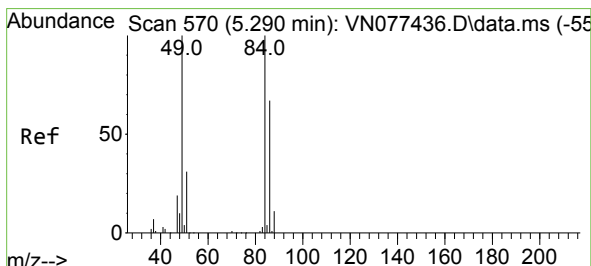
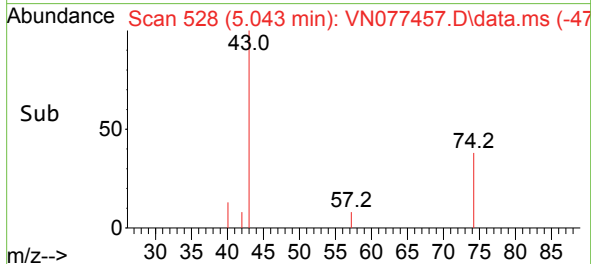
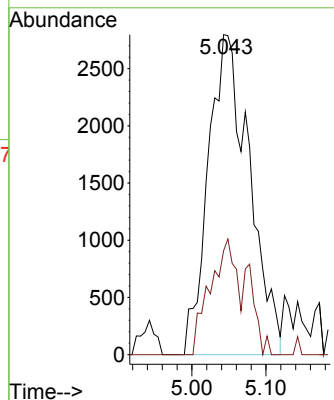
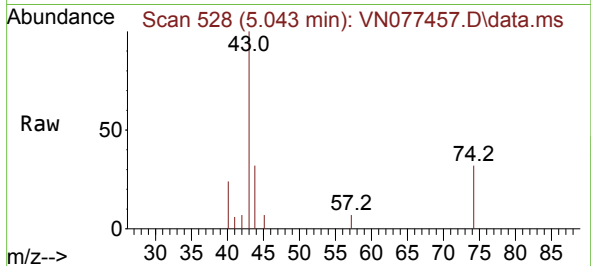




#18
Methyl Acetate
Concen: 1.183 ug/l
RT: 5.043 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN077457.D
Acq: 25 Apr 2023 08:54

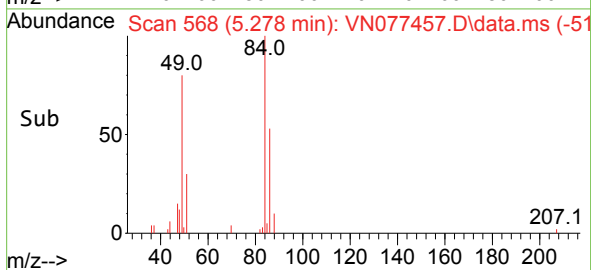
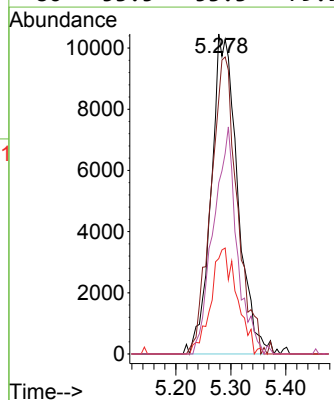
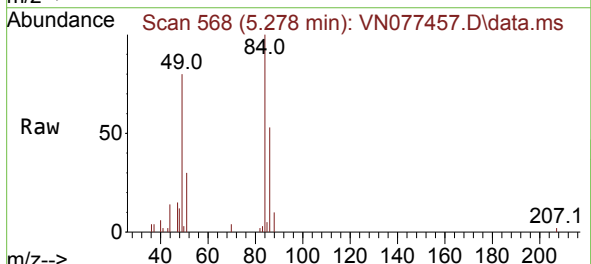
Instrument :
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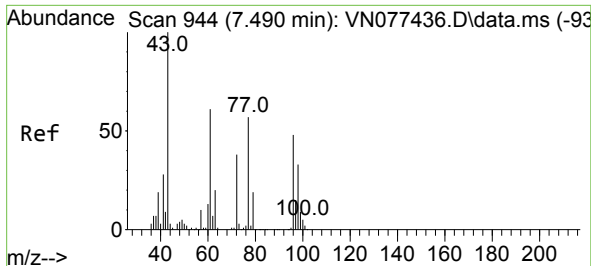
Tgt Ion: 43 Resp: 10757
Ion Ratio Lower Upper
43 100
74 23.3 26.2 39.4#



#20
Methylene Chloride
Concen: 4.665 ug/l
RT: 5.278 min Scan# 568
Delta R.T. -0.012 min
Lab File: VN077457.D
Acq: 25 Apr 2023 08:54

Tgt Ion: 84 Resp: 34829
Ion Ratio Lower Upper
84 100
49 79.6 79.7 119.5#
51 29.8 25.2 37.8
86 53.5 53.3 79.9

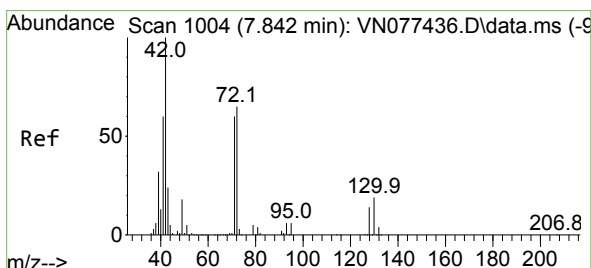
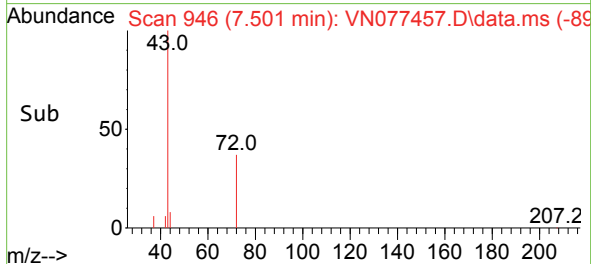
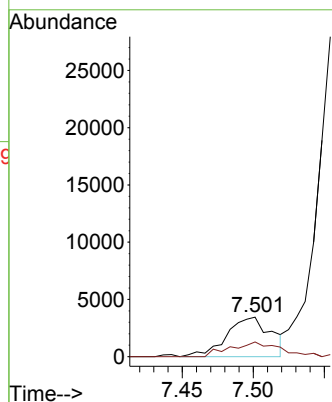
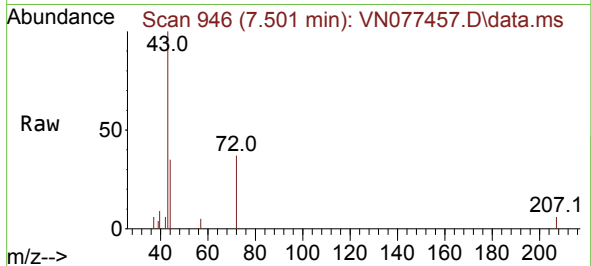




#25
2-Butanone
Concen: 2.242 ug/l
RT: 7.501 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN077457.D
Acq: 25 Apr 2023 08:54

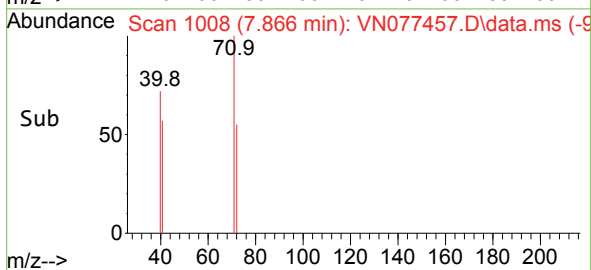
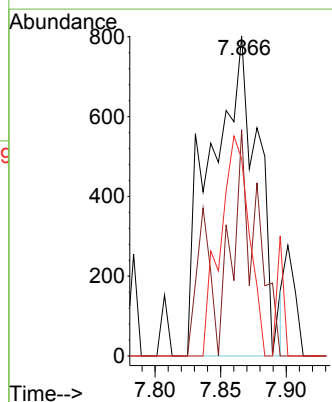
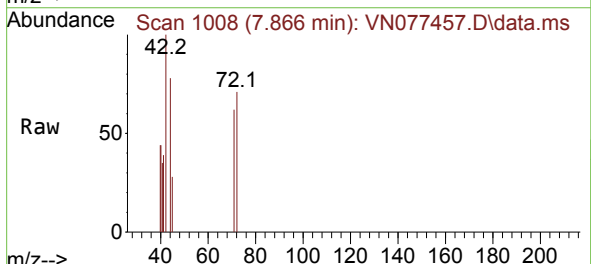
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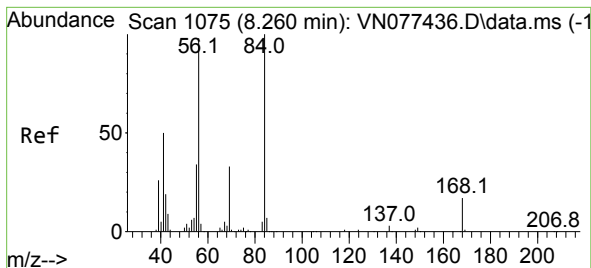
Tgt Ion: 43 Resp: 7484
Ion Ratio Lower Upper
43 100
72 37.3 30.2 45.2



#29
Tetrahydrofuran
Concen: 0.961 ug/l
RT: 7.866 min Scan# 1008
Delta R.T. 0.024 min
Lab File: VN077457.D
Acq: 25 Apr 2023 08:54

Tgt Ion: 42 Resp: 2010
Ion Ratio Lower Upper
42 100
72 36.1 49.8 74.6#
71 42.4 47.4 71.2#





#31

Cyclohexane

Concen: 1.269 ug/l

RT: 8.225 min Scan# 1069

Delta R.T. -0.035 min

Lab File: VN077457.D

Acq: 25 Apr 2023 08:54

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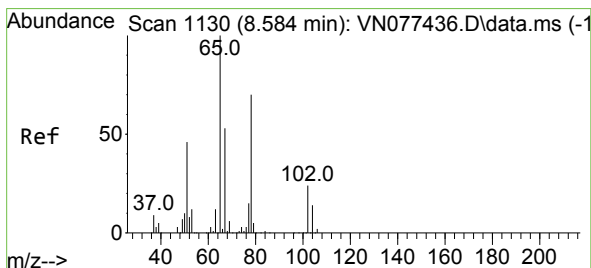
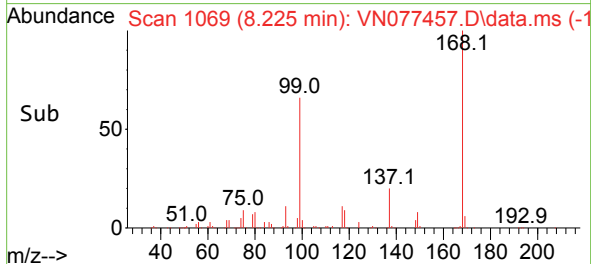
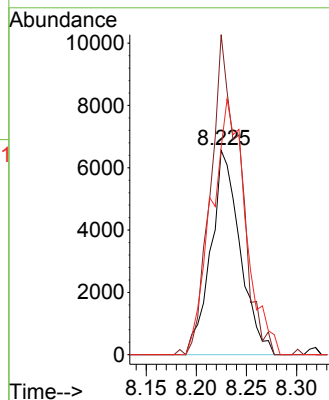
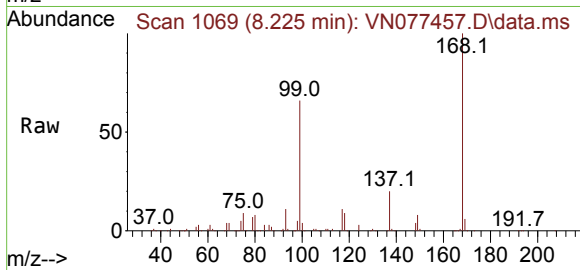
Tgt Ion: 56 Resp: 13306

Ion Ratio Lower Upper

56 100

69 156.6 26.8 40.2#

84 101.4 81.8 122.6



#33

1,2-Dichloroethane-d4

Concen: 50.330 ug/l

RT: 8.584 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN077457.D

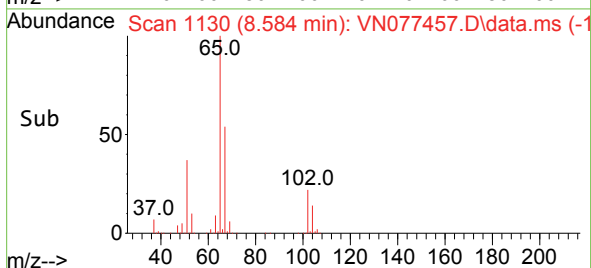
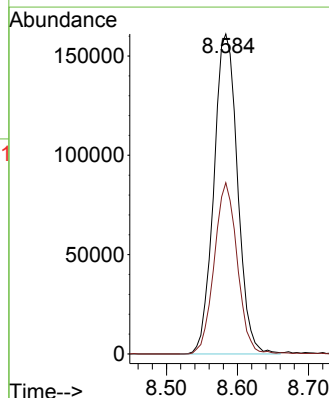
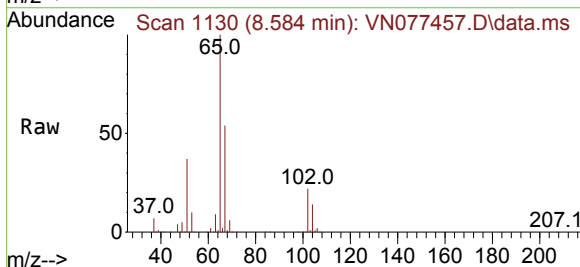
Acq: 25 Apr 2023 08:54

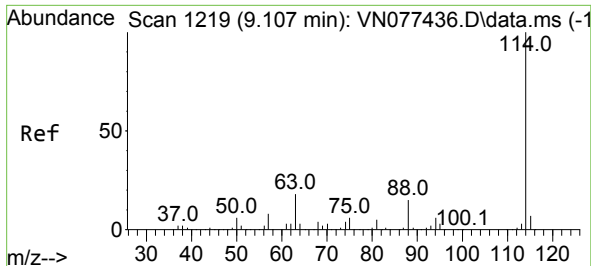
Tgt Ion: 65 Resp: 372410

Ion Ratio Lower Upper

65 100

67 51.9 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN077457.D

Acq: 25 Apr 2023 08:54

Instrument :

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MH-92

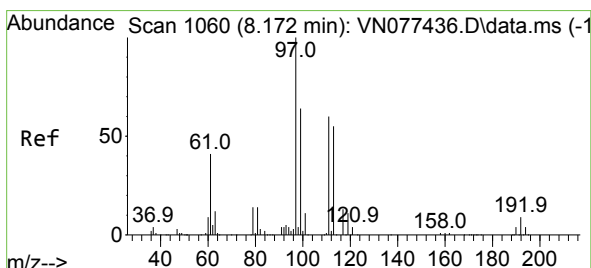
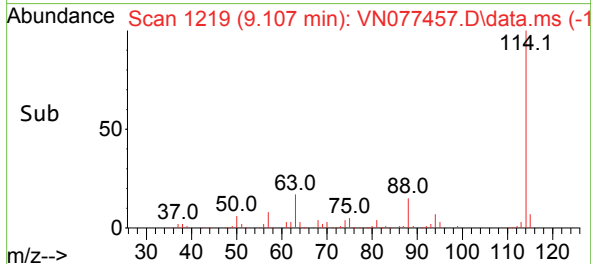
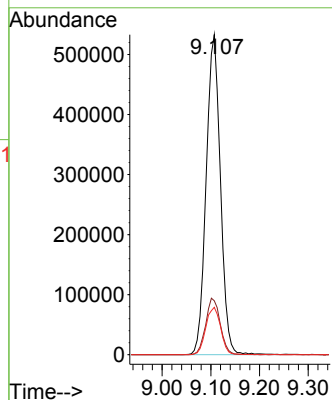
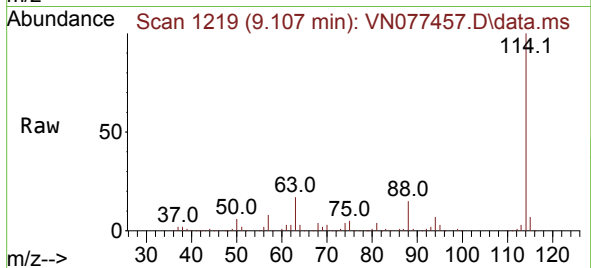
Tgt Ion:114 Resp: 1079008

Ion Ratio Lower Upper

114 100

63 16.8 0.0 36.4

88 14.8 0.0 30.6



#35

Dibromofluoromethane

Concen: 50.396 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. 0.000 min

Lab File: VN077457.D

Acq: 25 Apr 2023 08:54

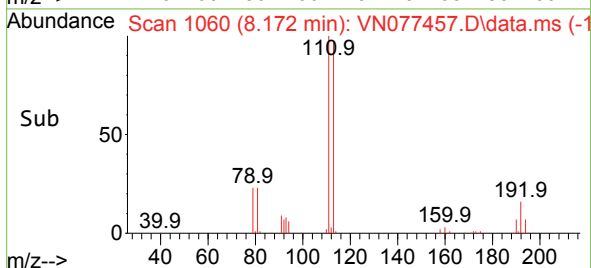
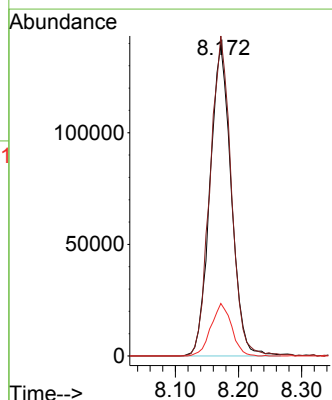
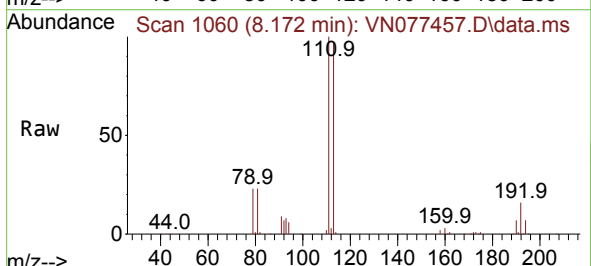
Tgt Ion:113 Resp: 326834

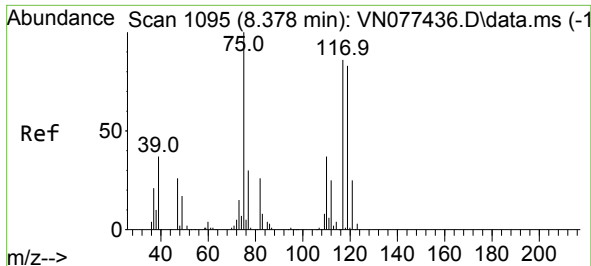
Ion Ratio Lower Upper

113 100

111 102.9 82.6 123.8

192 16.3 12.7 19.1





#36

1,1-Dichloropropene

Concen: 5.059 ug/l

RT: 8.225 min Scan# 1069

Delta R.T. -0.153 min

Lab File: VN077457.D

Acq: 25 Apr 2023 08:54

Instrument :

MSVOA_N

ClientSampleId :

MH-92

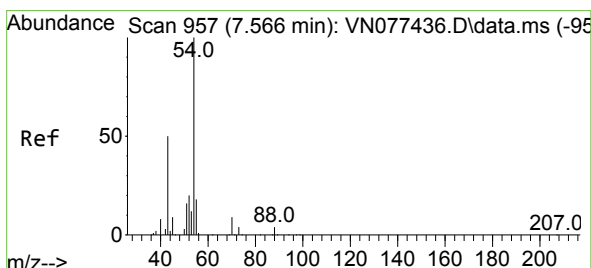
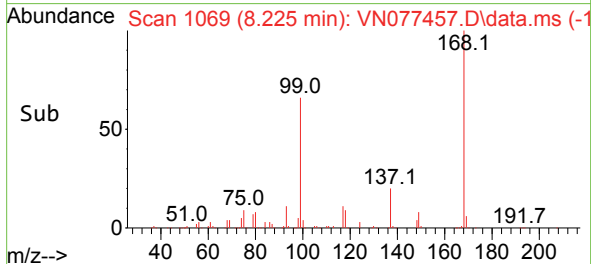
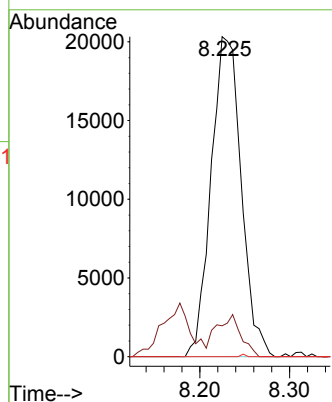
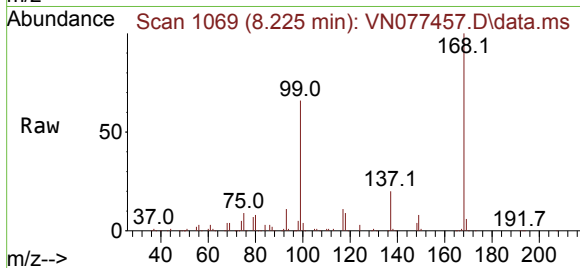
Tgt Ion: 75 Resp: 47396

Ion Ratio Lower Upper

75 100

110 0.0 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 13.161 ug/l

RT: 7.572 min Scan# 958

Delta R.T. 0.006 min

Lab File: VN077457.D

Acq: 25 Apr 2023 08:54

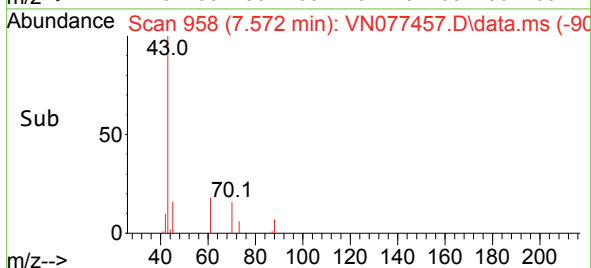
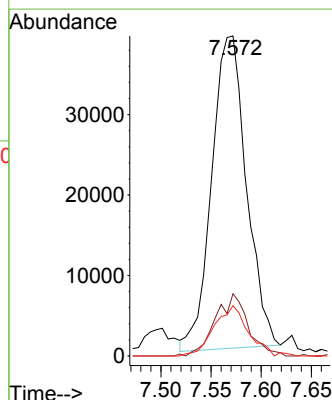
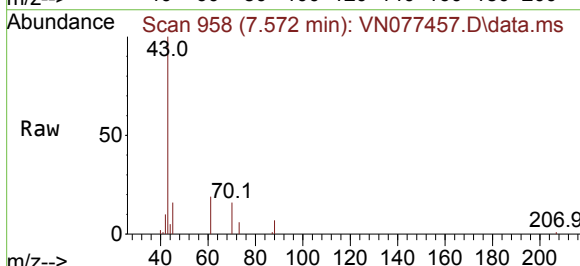
Tgt Ion: 43 Resp: 93699

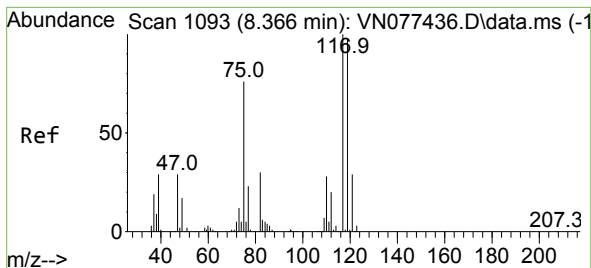
Ion Ratio Lower Upper

43 100

61 18.7 13.2 19.8

70 15.9 11.3 16.9





#38

Carbon Tetrachloride

Concen: 6.042 ug/l

RT: 8.225 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN077457.D

Acq: 25 Apr 2023 08:54

Instrument :

MSVOA_N

ClientSampleId :

MH-92

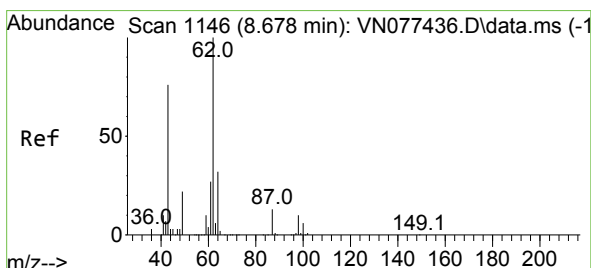
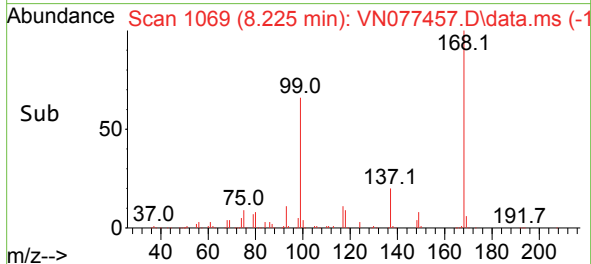
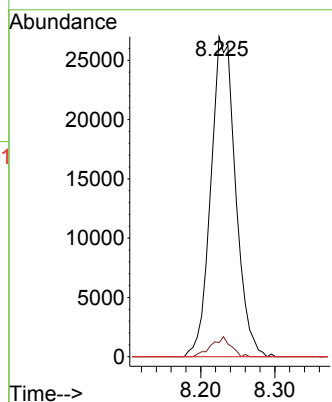
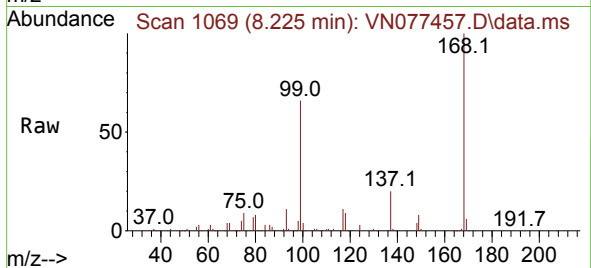
Tgt Ion:117 Resp: 62456

Ion Ratio Lower Upper

117 100

119 4.4 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.410 ug/l

RT: 8.695 min Scan# 1149

Delta R.T. 0.018 min

Lab File: VN077457.D

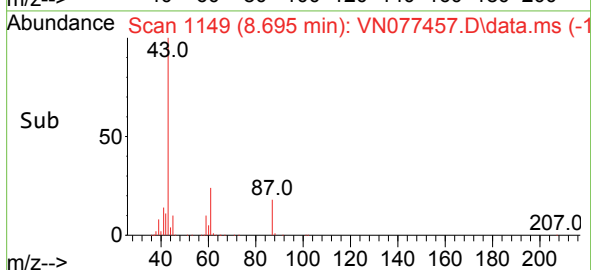
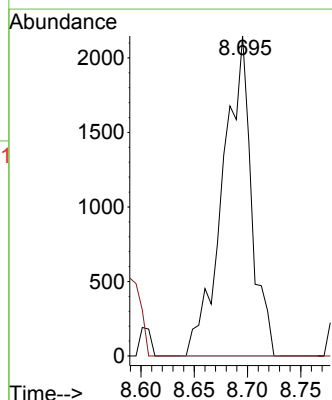
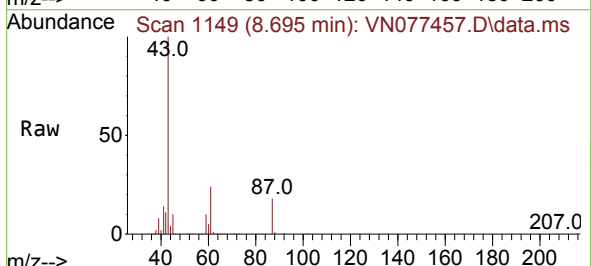
Acq: 25 Apr 2023 08:54

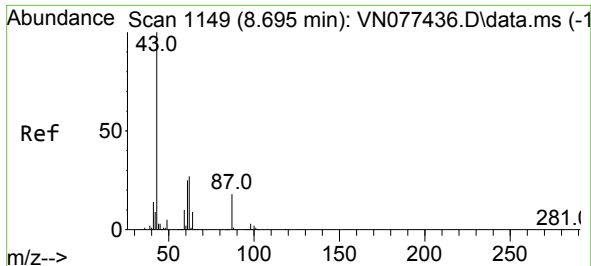
Tgt Ion: 62 Resp: 4021

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

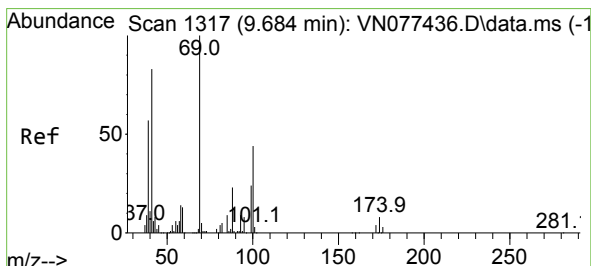
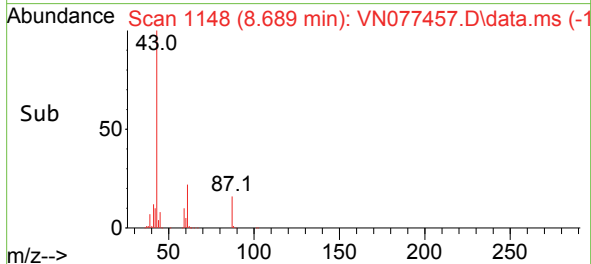
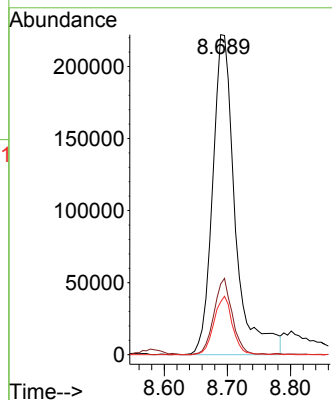
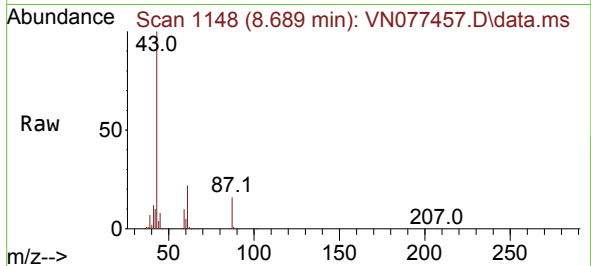




#43
Isopropyl Acetate
Concen: 44.747 ug/l
RT: 8.689 min Scan# 1148
Delta R.T. -0.006 min
Lab File: VN077457.D
Acq: 25 Apr 2023 08:54

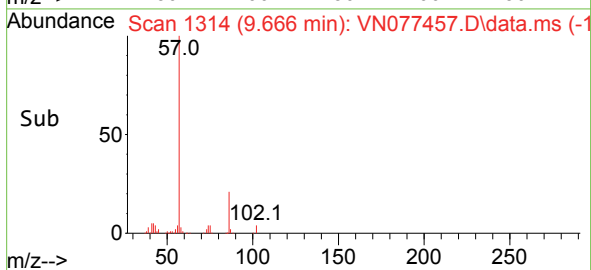
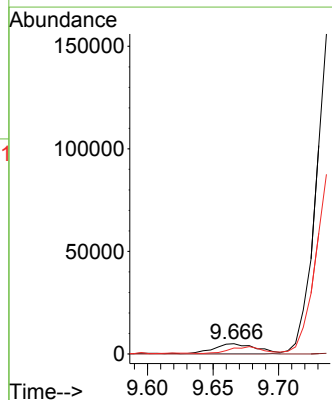
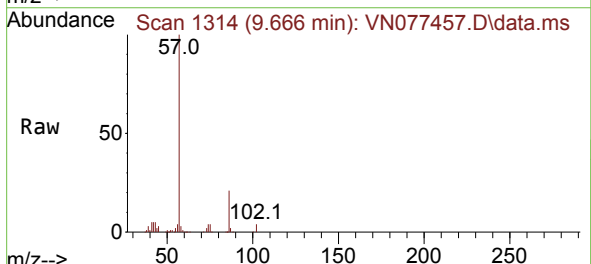
Instrument :
MSVOA_N
ClientSampleId :
MH-92

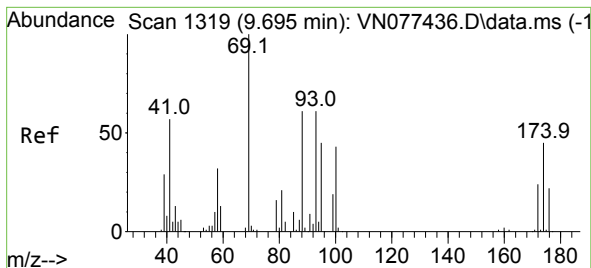
Tgt Ion: 43 Resp: 551145
Ion Ratio Lower Upper
43 100
61 19.4 24.7 37.1#
87 14.9 14.6 21.8



#48
Methyl methacrylate
Concen: 1.916 ug/l
RT: 9.666 min Scan# 1314
Delta R.T. -0.018 min
Lab File: VN077457.D
Acq: 25 Apr 2023 08:54

Tgt Ion: 41 Resp: 10744
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 0.0 54.6 81.8#





#49

1,4-Dioxane

Concen: 2.546 ug/l

RT: 9.684 min Scan# 1

Delta R.T. -0.012 min

Lab File: VN077457.D

Acq: 25 Apr 2023 08:54

Instrument :

MSVOA_N

ClientSampleId :

MH-92

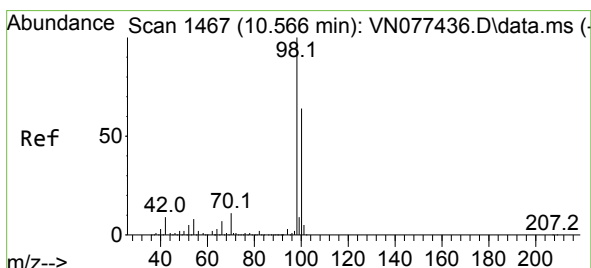
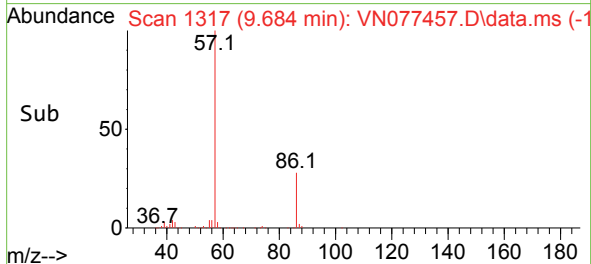
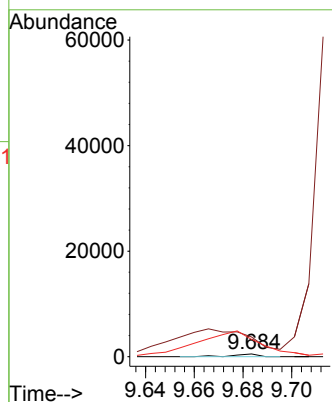
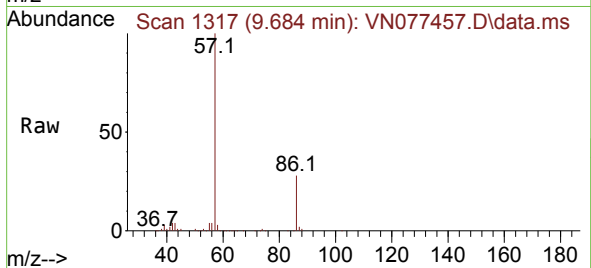
Tgt Ion: 88 Resp: 358

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 2540.2 47.0 70.4#



#50

Toluene-d8

Concen: 53.298 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. 0.006 min

Lab File: VN077457.D

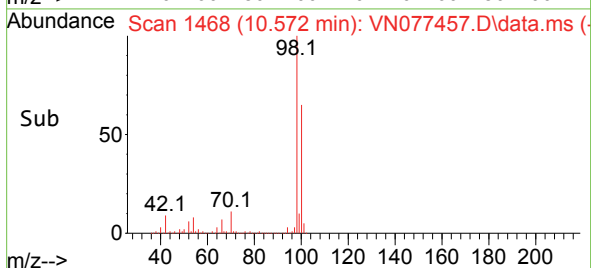
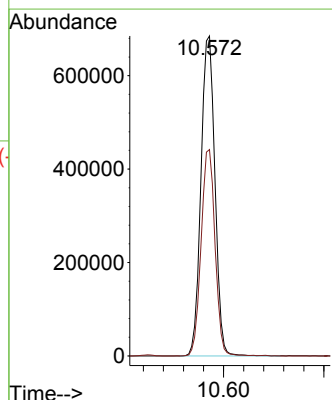
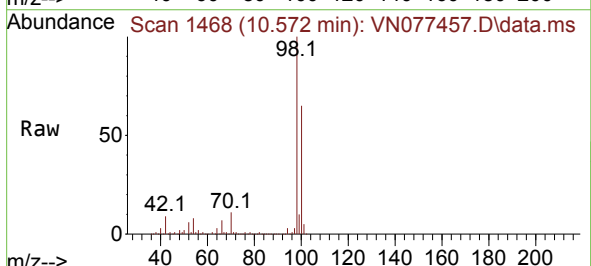
Acq: 25 Apr 2023 08:54

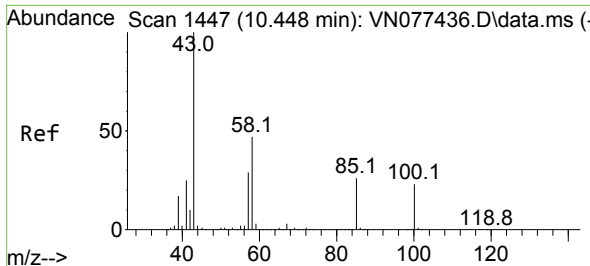
Tgt Ion: 98 Resp: 1324741

Ion Ratio Lower Upper

98 100

100 64.4 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 2.233 ug/l

RT: 10.448 min Scan# 1447

Delta R.T. -0.000 min

Lab File: VN077457.D

Acq: 25 Apr 2023 08:54

Instrument :

MSVOA_N

ClientSampleId :

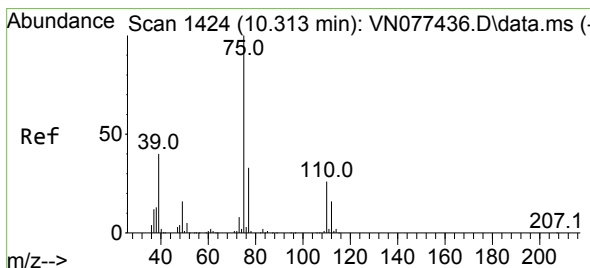
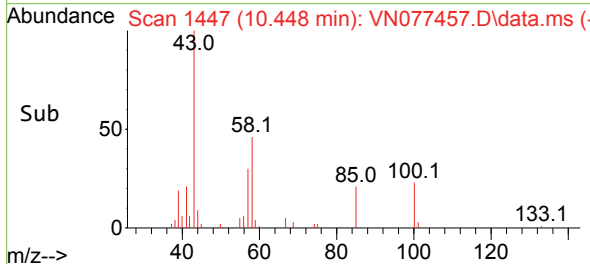
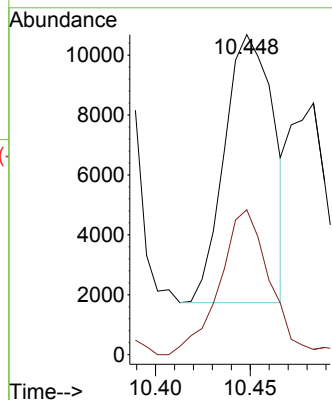
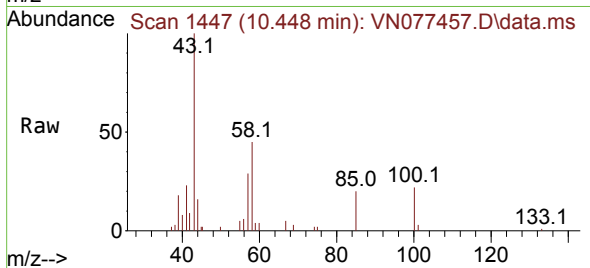
MH-92

Tgt Ion: 43 Resp: 16129

Ion Ratio Lower Upper

43 100

58 55.8 36.6 54.8#



#54

cis-1,3-Dichloropropene

Concen: 18.477 ug/l

RT: 10.360 min Scan# 1432

Delta R.T. 0.047 min

Lab File: VN077457.D

Acq: 25 Apr 2023 08:54

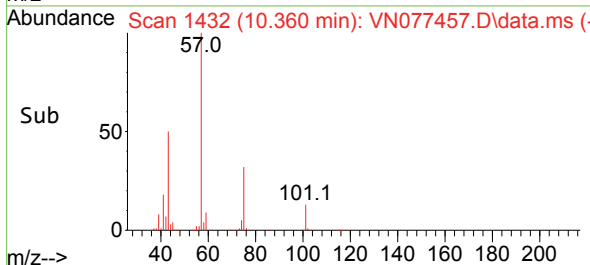
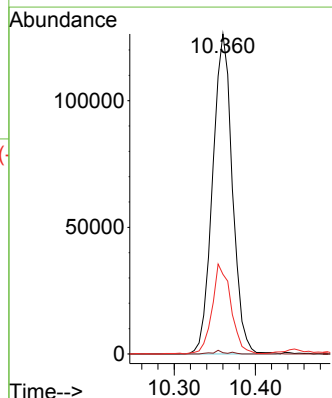
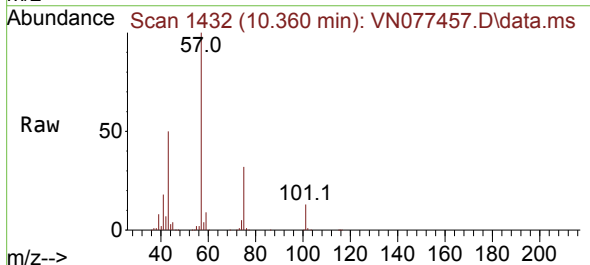
Tgt Ion: 75 Resp: 213708

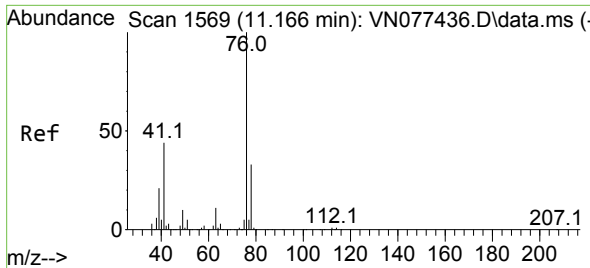
Ion Ratio Lower Upper

75 100

77 0.4 26.1 39.1#

39 24.7 31.6 47.4#

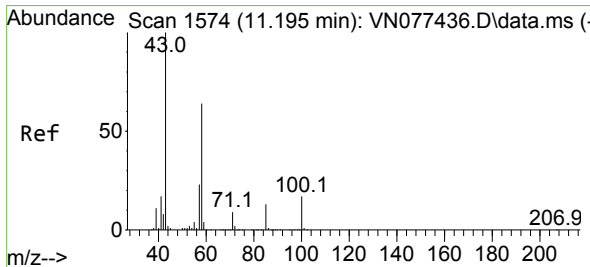
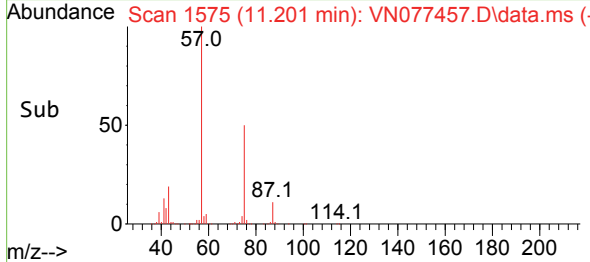
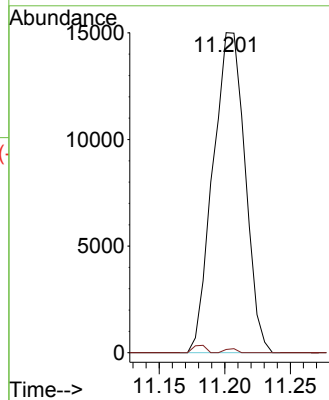
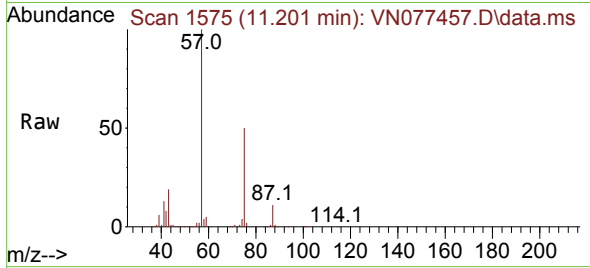




#57
1,3-Dichloropropane
Concen: 2.133 ug/l
RT: 11.201 min Scan# 1575
Delta R.T. 0.035 min
Lab File: VN077457.D
Acq: 25 Apr 2023 08:54

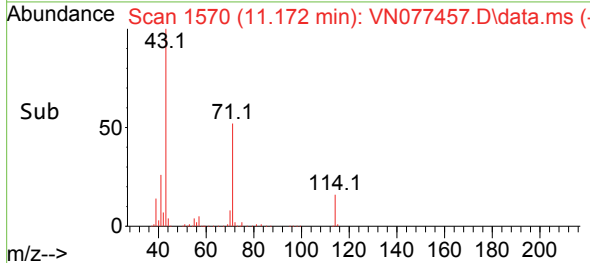
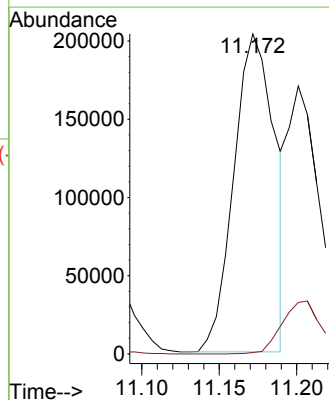
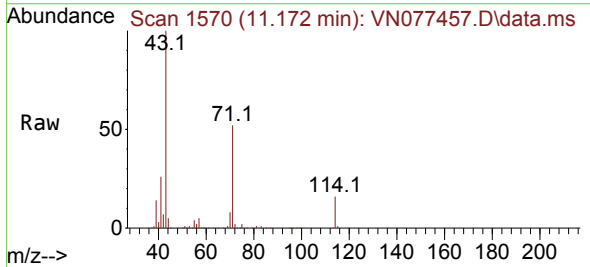
Instrument :
MSVOA_N
ClientSampleId :
MH-92

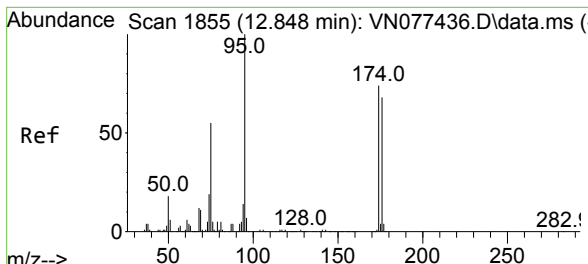
Tgt Ion: 76 Resp: 25545
Ion Ratio Lower Upper
76 100
78 0.5 26.1 39.1#



#59
2-Hexanone
Concen: 70.986 ug/l
RT: 11.172 min Scan# 1570
Delta R.T. -0.024 min
Lab File: VN077457.D
Acq: 25 Apr 2023 08:54

Tgt Ion: 43 Resp: 372777
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



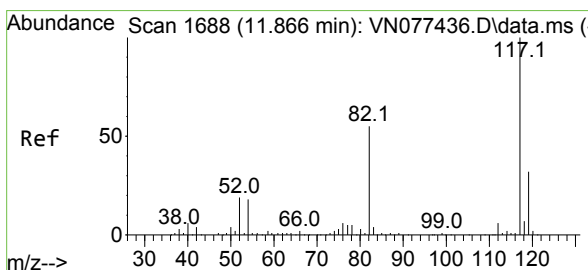
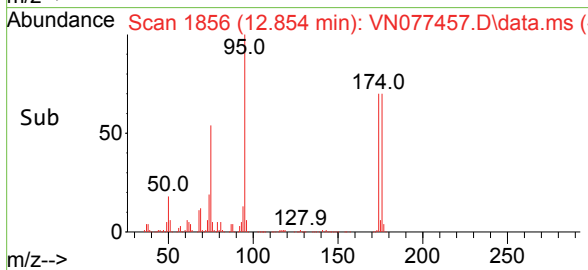
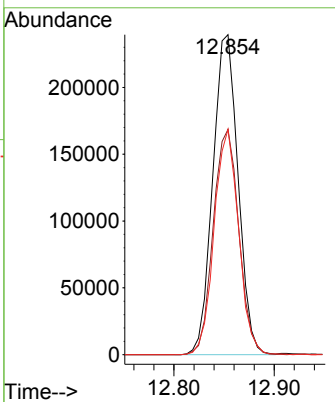
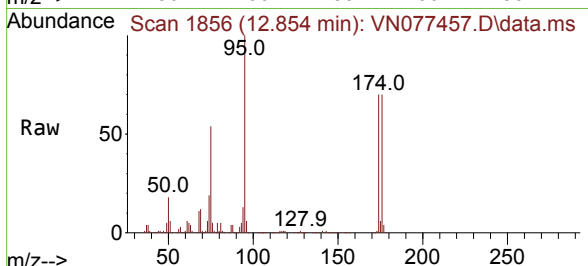


#62
 4-Bromofluorobenzene
 Concen: 51.491 ug/l
 RT: 12.854 min Scan# 1856
 Delta R.T. 0.006 min
 Lab File: VN077457.D
 Acq: 25 Apr 2023 08:54

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-92

Tgt Ion: 95 Resp: 418730

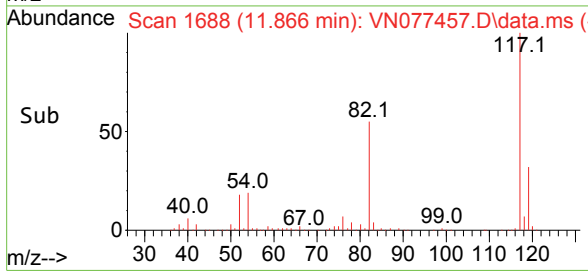
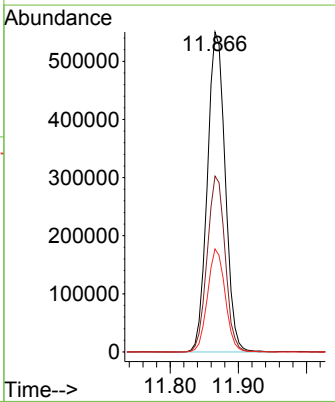
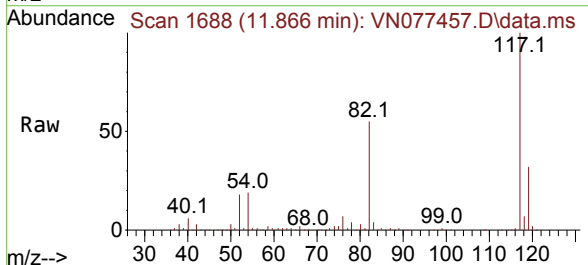
Ion	Ratio	Lower	Upper
95	100		
174	71.3	0.0	143.8
176	68.1	0.0	135.8

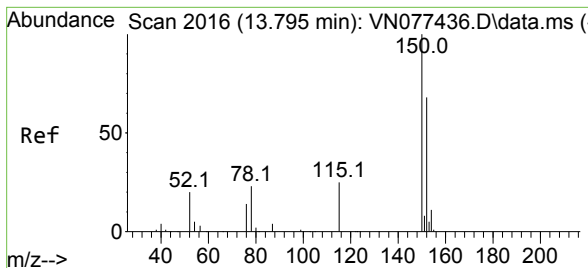


#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.866 min Scan# 1688
 Delta R.T. -0.000 min
 Lab File: VN077457.D
 Acq: 25 Apr 2023 08:54

Tgt Ion: 117 Resp: 1003449

Ion	Ratio	Lower	Upper
117	100		
82	55.0	44.0	66.0
119	32.2	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN077457.D

Acq: 25 Apr 2023 08:54

Instrument :

MSVOA_N

ClientSampleId :

MH-92

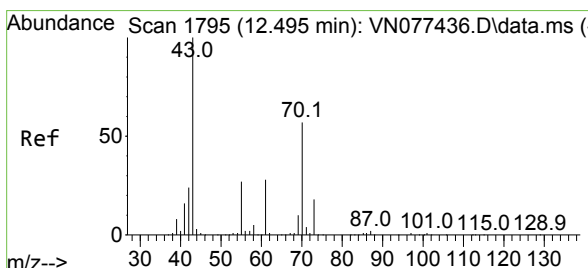
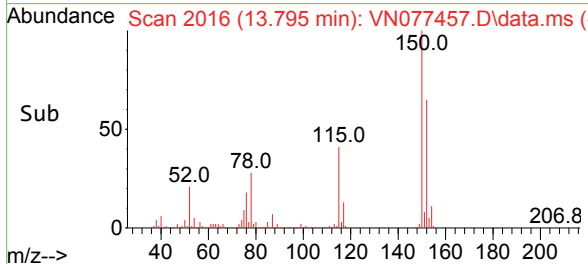
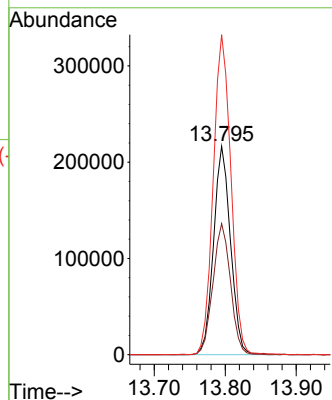
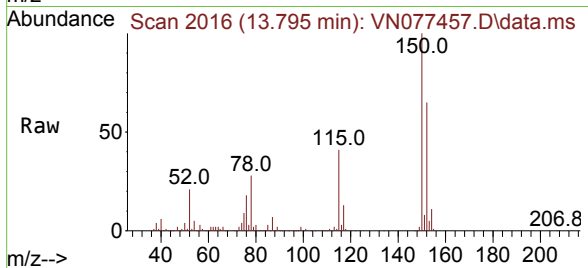
Tgt Ion:152 Resp: 358232

Ion Ratio Lower Upper

152 100

115 65.0 32.3 96.8

150 160.2 0.0 355.8



#74

N-ethyl acetate

Concen: 0.324 ug/l

RT: 12.489 min Scan# 1794

Delta R.T. -0.006 min

Lab File: VN077457.D

Acq: 25 Apr 2023 08:54

Tgt Ion: 43 Resp: 3188

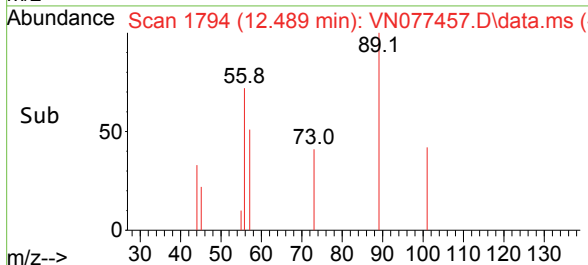
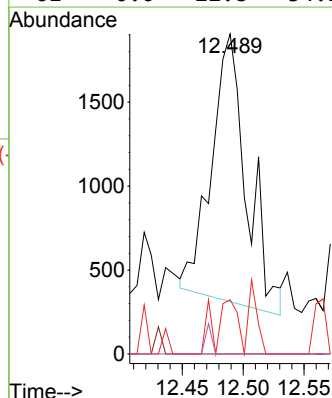
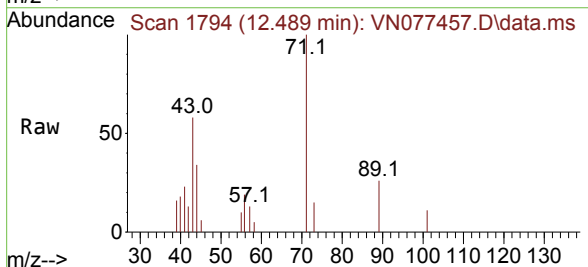
Ion Ratio Lower Upper

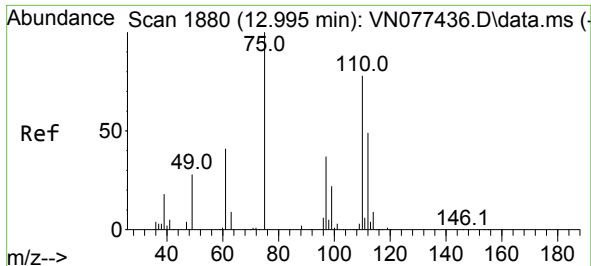
43 100

70 0.0 43.4 65.2#

55 6.9 21.4 32.0#

61 0.0 22.8 34.2#

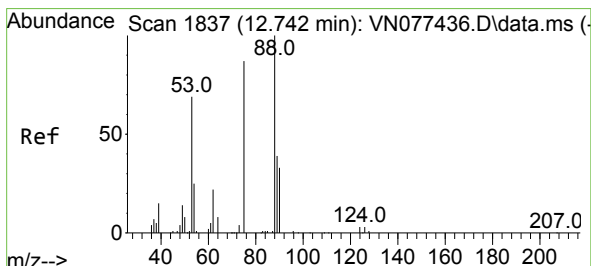
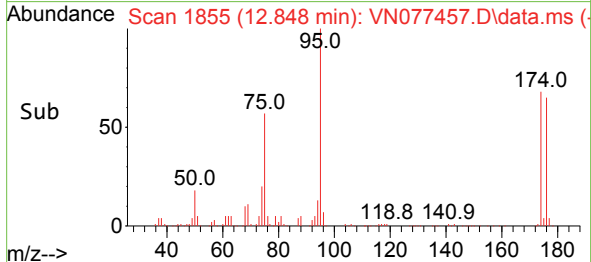
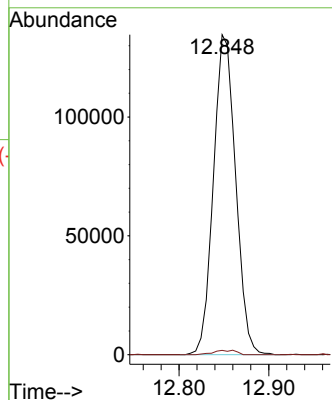
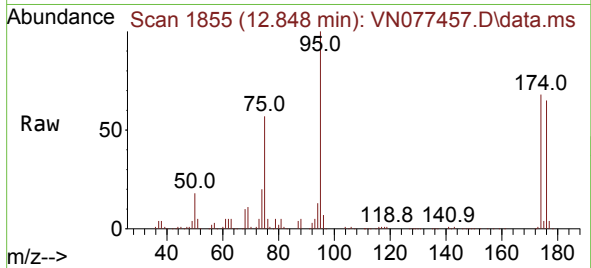




#76
1,2,3-Trichloropropane
Concen: 27.767 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. -0.147 min
Lab File: VN077457.D
Acq: 25 Apr 2023 08:54

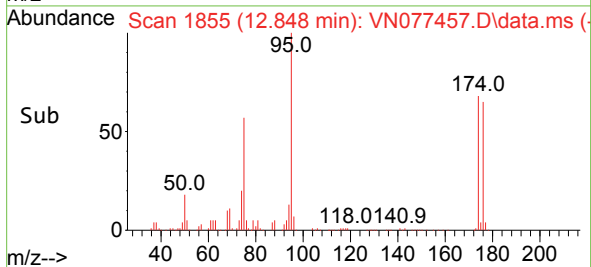
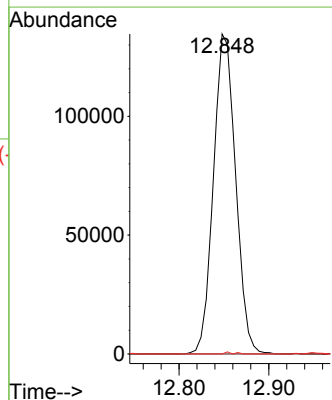
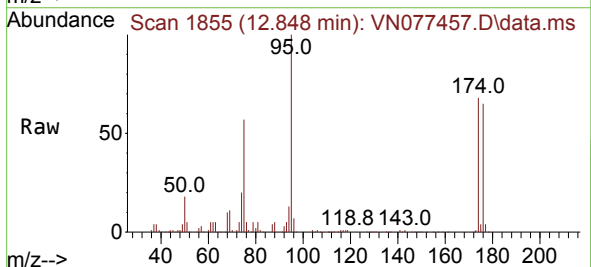
Instrument :
MSVOA_N
ClientSampleId :
MH-92

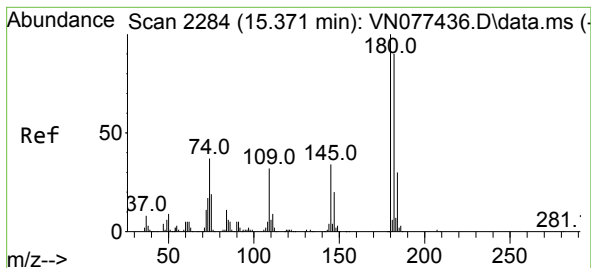
Tgt Ion: 75 Resp: 231309
Ion Ratio Lower Upper
75 100
77 1.4 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 78.447 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. 0.106 min
Lab File: VN077457.D
Acq: 25 Apr 2023 08:54

Tgt Ion: 75 Resp: 231309
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.2 38.8 58.2#





#93

1,2,4-Trichlorobenzene

Concen: 0.821 ug/l

RT: 15.371 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN077457.D

Acq: 25 Apr 2023 08:54

Instrument :

MSVOA_N

ClientSampleId :

MH-92

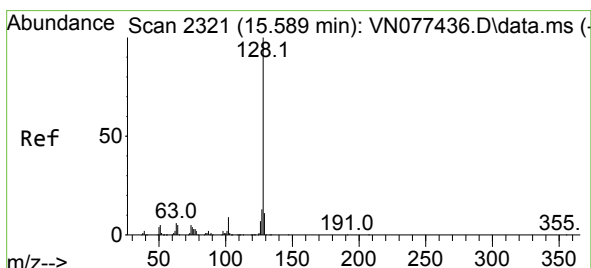
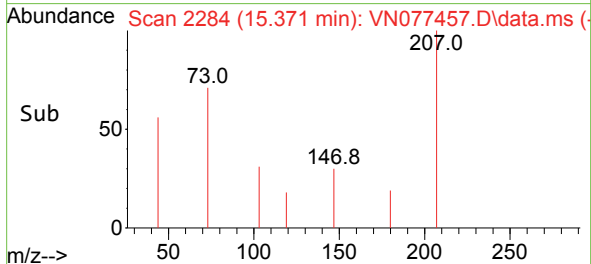
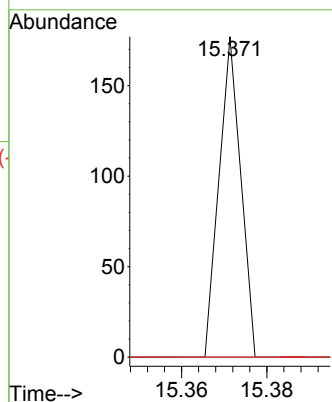
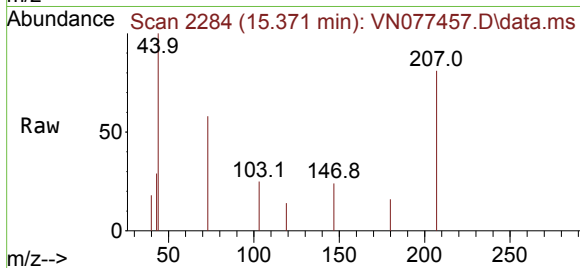
Tgt Ion:180 Resp: 62

Ion Ratio Lower Upper

180 100

182 0.0 46.1 138.2#

145 0.0 16.6 49.8#



#95

Naphthalene

Concen: 1.222 ug/l

RT: 15.583 min Scan# 2320

Delta R.T. -0.006 min

Lab File: VN077457.D

Acq: 25 Apr 2023 08:54

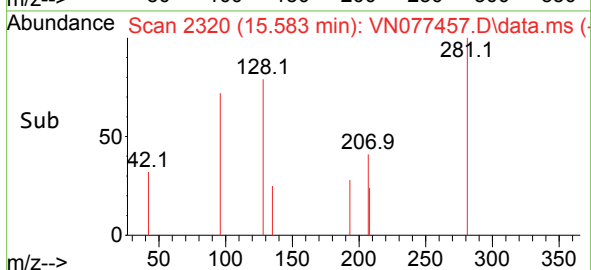
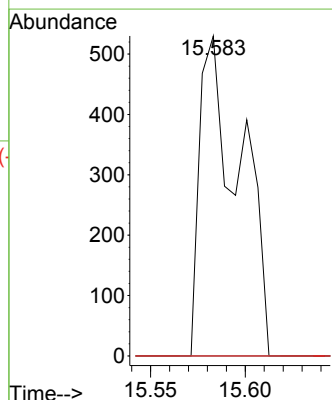
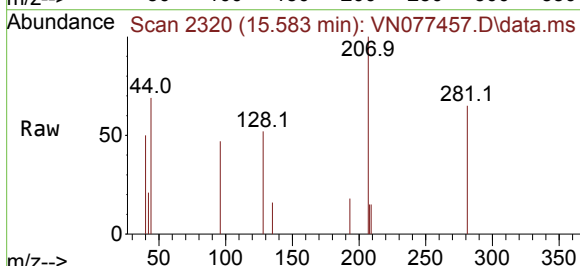
Tgt Ion:128 Resp: 782

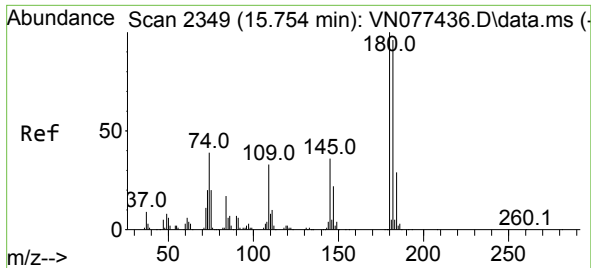
Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

129 0.0 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.496 ug/l
 RT: 15.765 min Scan# 21
 Delta R.T. 0.011 min
 Lab File: VN077457.D
 Acq: 25 Apr 2023 08:54

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-92

Tgt Ion:	180	Resp:	55
Ion	Ratio	Lower	Upper
180	100		
182	0.0	46.2	138.6#
145	176.4	17.5	52.6#

