

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082523\
 Data File : VN079052.D
 Acq On : 25 Aug 2023 15:59
 Operator : JC\MD
 Sample : 04093-03DL 200X
 Misc : 6.29g/5.0mL/100uL/5.0mL/MSVOA_N/MEOH
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 25 23:05:17 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081523W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 16 02:42:02 2023
 Response via : Initial Calibration

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

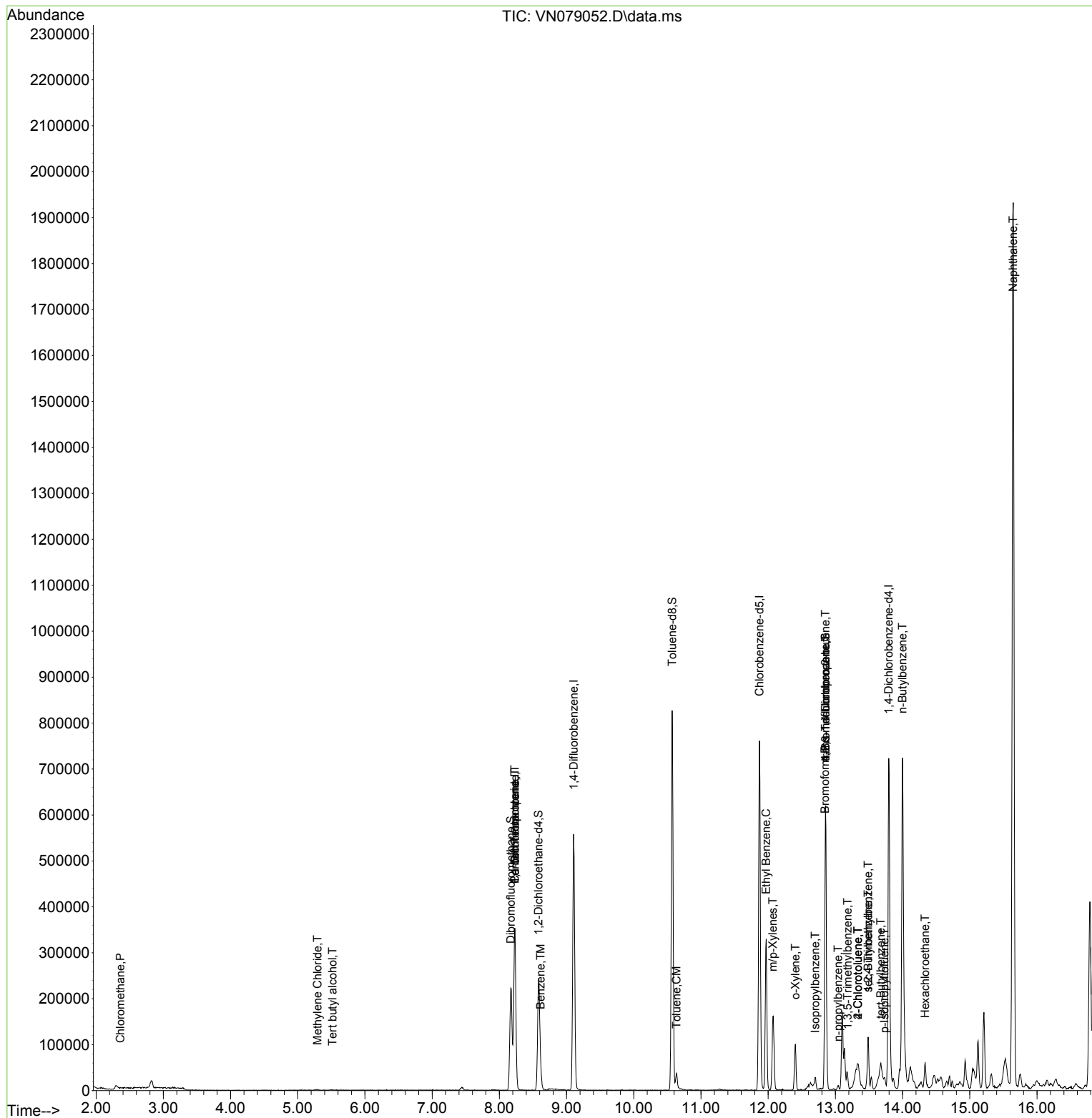
Internal Standards						
1) Pentafluorobenzene	8.230	168	257477	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	476387	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	429615	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	189577	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	188294	46.996	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	94.000%
35) Dibromofluoromethane	8.171	113	159807	49.834	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	99.660%
50) Toluene-d8	10.571	98	557865	46.852	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	93.700%
62) 4-Bromofluorobenzene	12.853	95	201401	51.748	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	103.500%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	1054	0.211	ug/l #	42
11) Tert butyl alcohol	5.518	59	713	1.061	ug/l #	72
20) Methylene Chloride	5.294	84	822	0.233	ug/l #	83
31) Cyclohexane	8.230	56	6272	Below Cal	#	10
36) 1,1-Dichloropropene	8.230	75	21775	4.514	ug/l #	46
38) Carbon Tetrachloride	8.230	117	27262	5.640	ug/l #	16
40) Benzene	8.612	78	30764	2.158	ug/l	93
52) Toluene	10.635	92	13300	1.519	ug/l	91
67) Ethyl Benzene	11.971	91	233727	14.054	ug/l	99
68) m/p-Xylenes	12.071	106	53891	8.667	ug/l	97
69) o-Xylene	12.406	106	26340	4.355	ug/l	97
71) Bromoform	12.847	173	693	0.276	ug/l #	28
73) Isopropylbenzene	12.700	105	16866	1.067	ug/l	99
76) 1,2,3-Trichloropropane	12.853	75	109871	24.053	ug/l #	1
78) n-propylbenzene	13.041	91	7709	0.421	ug/l	91
79) 2-Chlorotoluene	13.335	91	2622	0.231	ug/l	80
80) 1,3,5-Trimethylbenzene	13.182	105	15250	1.217	ug/l	89
81) trans-1,4-Dichloro-2-b...	12.853	75	109871	61.445	ug/l #	15
82) 4-Chlorotoluene	13.335	91	2622	0.236	ug/l	82
83) tert-Butylbenzene	13.676	119	8983	0.853	ug/l	77
84) 1,2,4-Trimethylbenzene	13.488	105	60422	4.871	ug/l	95
85) sec-Butylbenzene	13.488	105	60422	4.171	ug/l #	57
86) p-Isopropyltoluene	13.729	119	6022	0.520	ug/l	93
89) n-Butylbenzene	14.000	91	68637	7.207	ug/l #	43
90) Hexachloroethane	14.335	117	4092	1.764	ug/l #	21
92) 1,2-Dibromo-3-Chloropr...	14.447	75	202	Below Cal		75
95) Naphthalene	15.647	128	1772881	195.060	ug/l	99

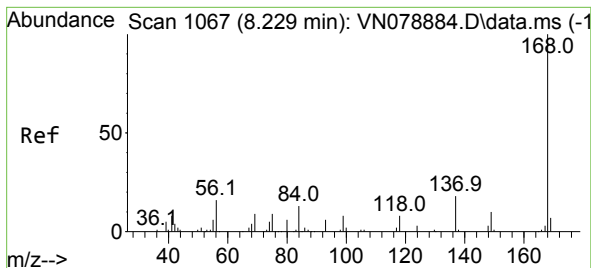
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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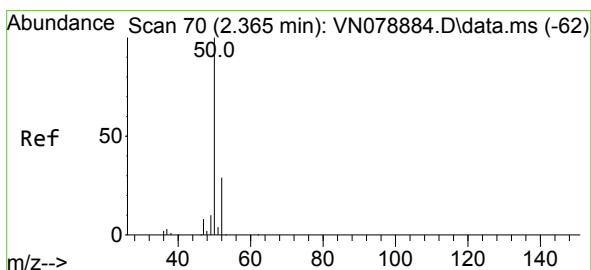
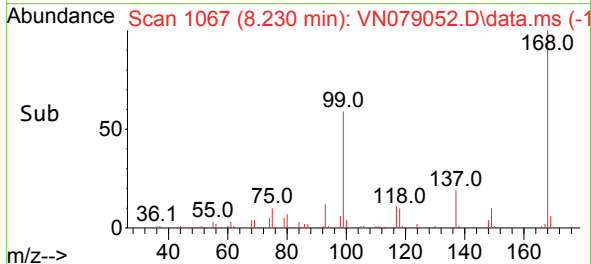
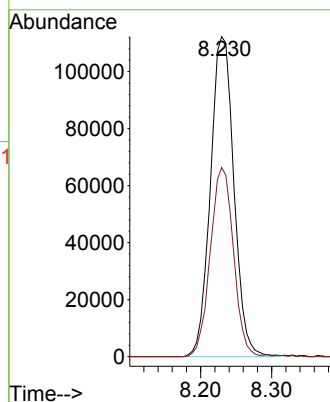
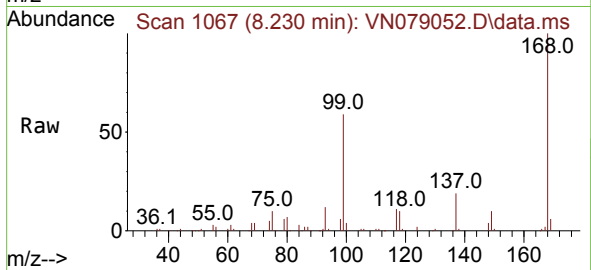




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN079052.D
Acq: 25 Aug 2023 15:59

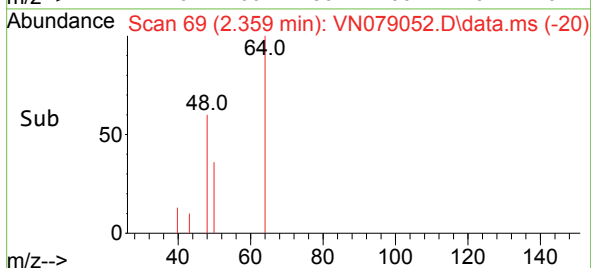
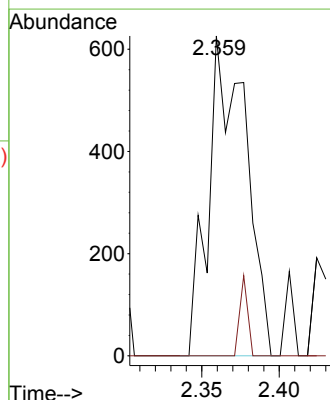
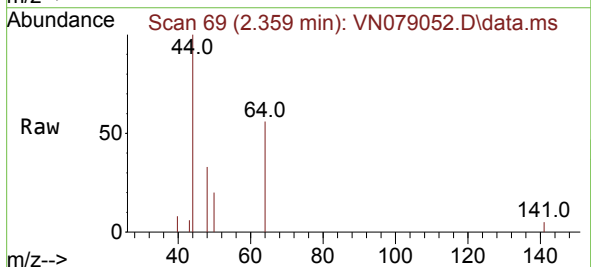
Instrument :
MSVOA_N
ClientSampleId :

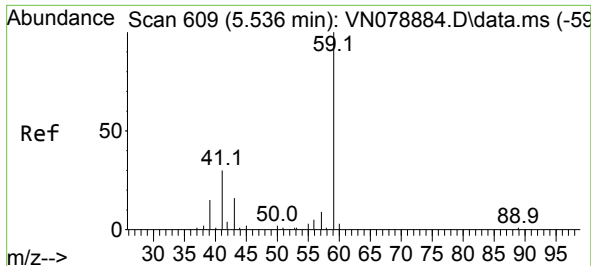
Tgt Ion:168 Resp: 257477
Ion Ratio Lower Upper
168 100
99 59.1 53.0 79.6



#3
Chloromethane
Concen: 0.211 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.012 min
Lab File: VN079052.D
Acq: 25 Aug 2023 15:59

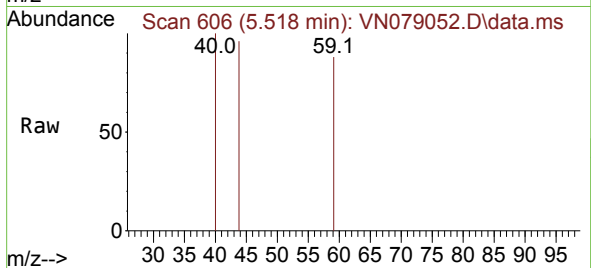
Tgt Ion: 50 Resp: 1054
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#



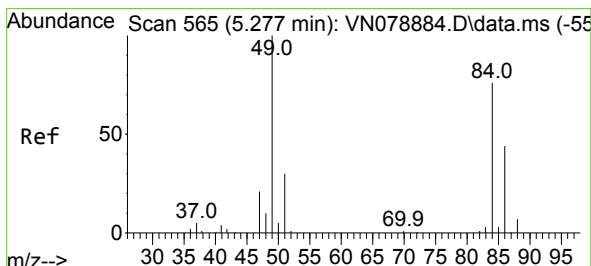
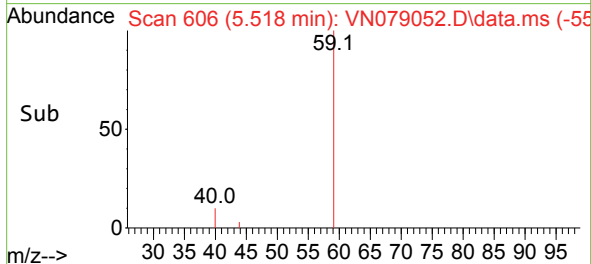
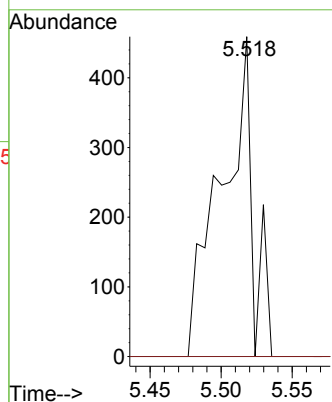


#11
Tert butyl alcohol
Concen: 1.061 ug/l
RT: 5.518 min Scan# 609
Delta R.T. -0.024 min
Lab File: VN079052.D
Acq: 25 Aug 2023 15:59

Instrument :
MSVOA_N
ClientSampleId :

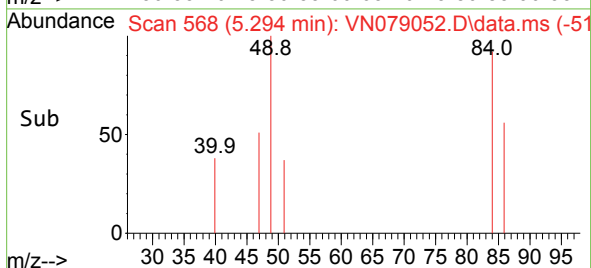
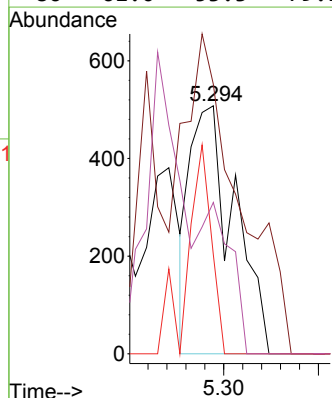
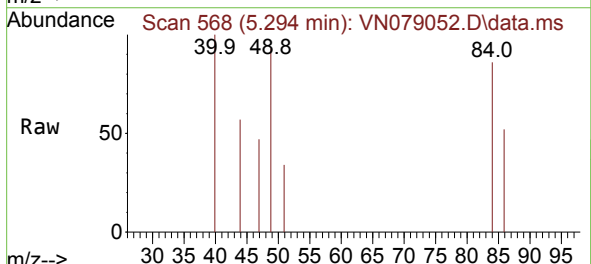


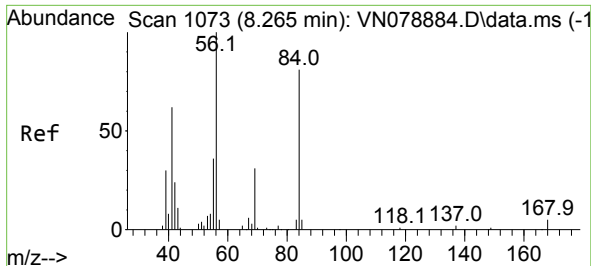
Tgt Ion: 59 Resp: 713
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#20
Methylene Chloride
Concen: 0.233 ug/l
RT: 5.294 min Scan# 568
Delta R.T. 0.011 min
Lab File: VN079052.D
Acq: 25 Aug 2023 15:59

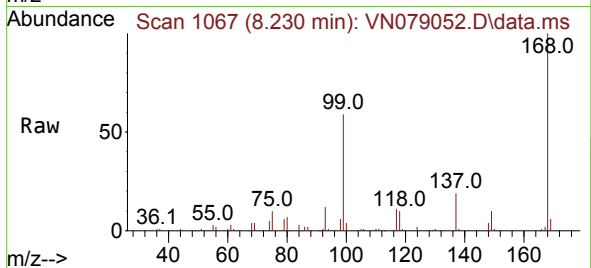
Tgt Ion: 84 Resp: 822
Ion Ratio Lower Upper
84 100
49 75.6 79.7 119.5#
51 40.0 25.2 37.8#
86 61.0 53.3 79.9



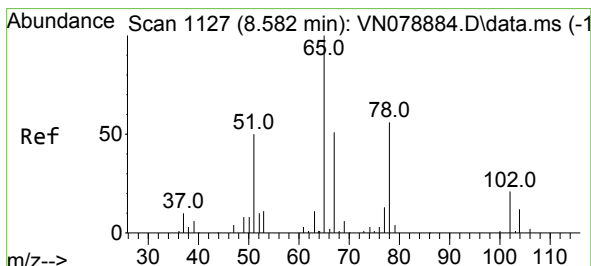
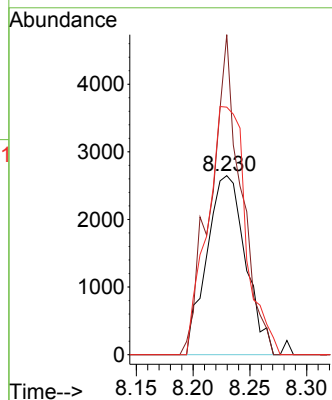
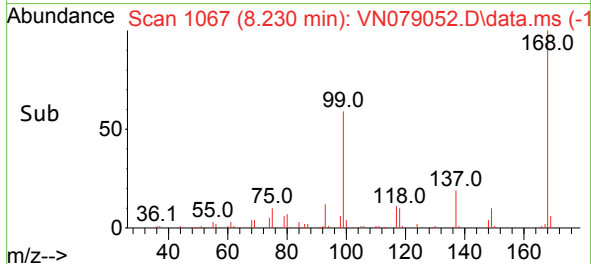


#31
Cyclohexane
Concen: Below Cal
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN079052.D
Acq: 25 Aug 2023 15:59

Instrument :
MSVOA_N
ClientSampleId :

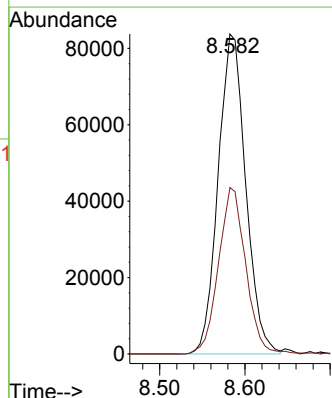
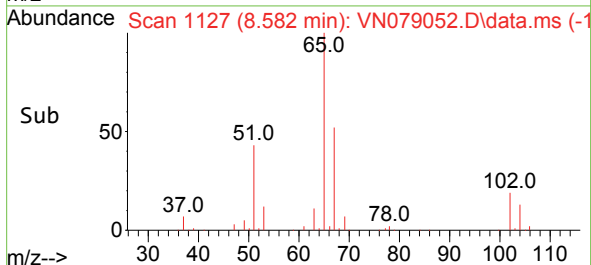
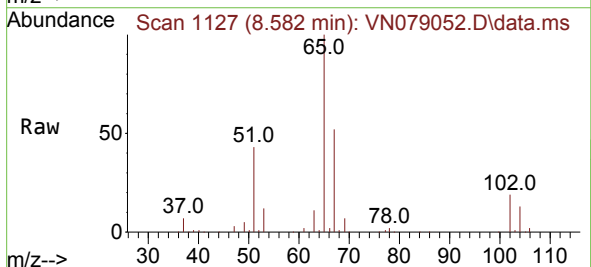


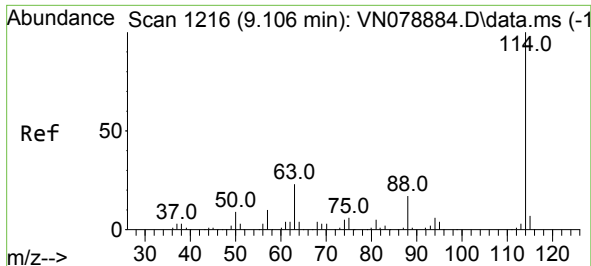
Tgt Ion: 56 Resp: 6272
Ion Ratio Lower Upper
56 100
69 178.8 26.8 40.2#
84 138.3 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 46.996 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.001 min
Lab File: VN079052.D
Acq: 25 Aug 2023 15:59

Tgt Ion: 65 Resp: 188294
Ion Ratio Lower Upper
65 100
67 51.6 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN079052.D

Acq: 25 Aug 2023 15:59

Instrument :

MSVOA_N

ClientSampleId :

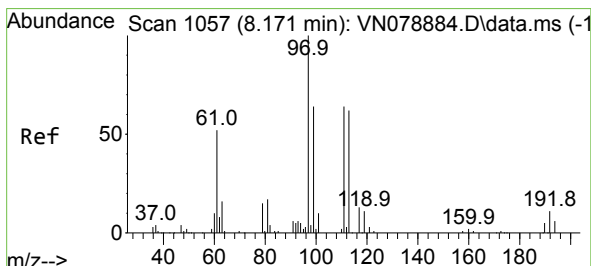
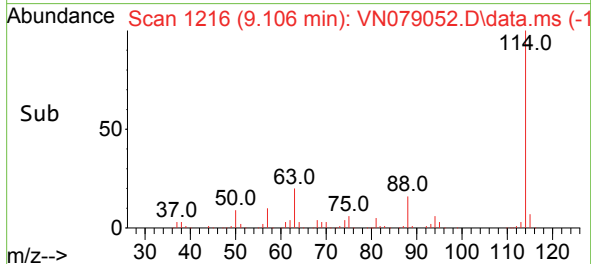
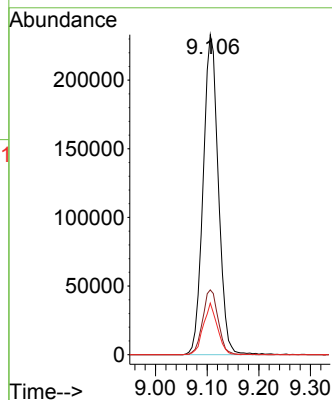
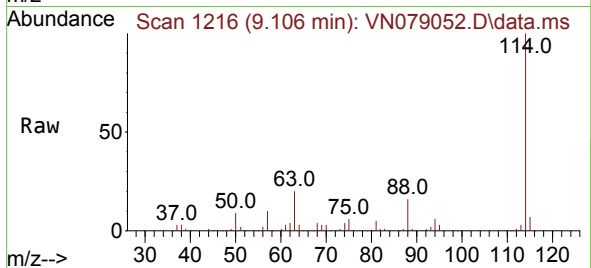
Tgt Ion:114 Resp: 476387

Ion Ratio Lower Upper

114 100

63 20.2 0.0 36.4

88 16.1 0.0 30.6



#35

Dibromofluoromethane

Concen: 49.834 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN079052.D

Acq: 25 Aug 2023 15:59

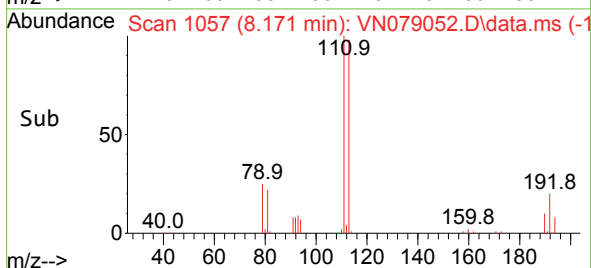
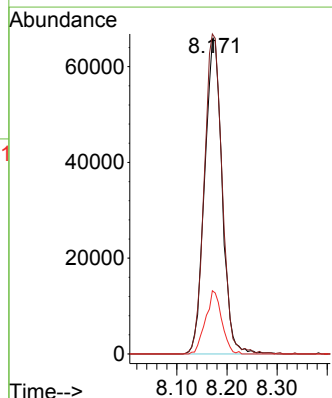
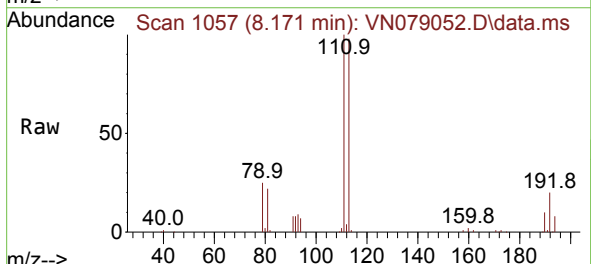
Tgt Ion:113 Resp: 159807

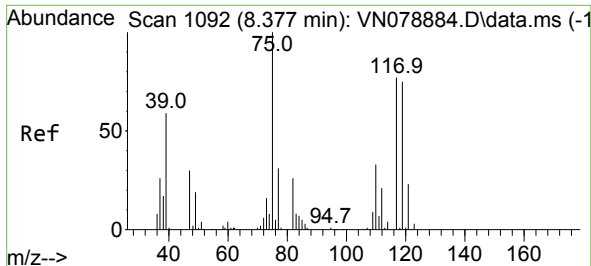
Ion Ratio Lower Upper

113 100

111 102.9 82.6 123.8

192 18.6 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.514 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

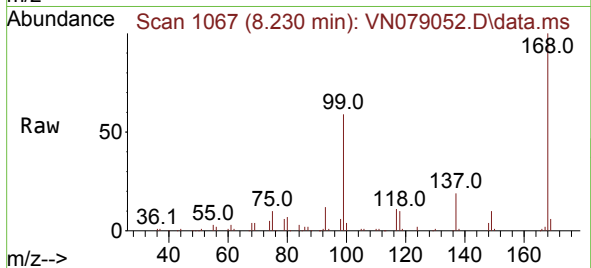
Lab File: VN079052.D

Acq: 25 Aug 2023 15:59

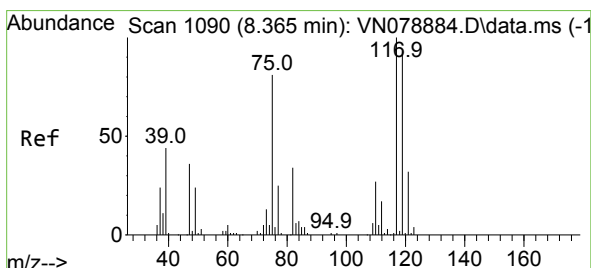
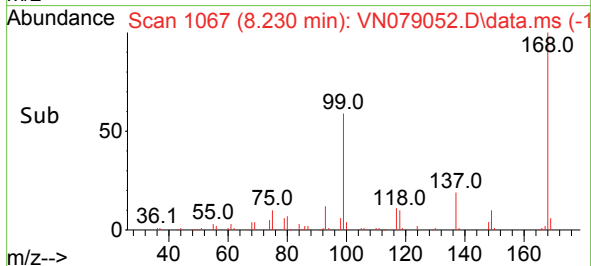
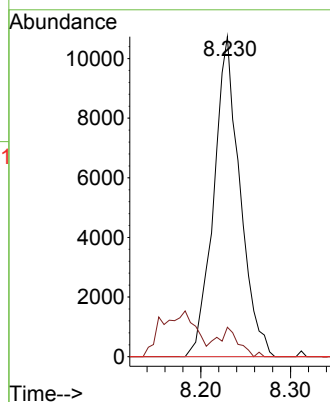
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 75	Resp: 21775
Ion Ratio	Lower Upper
75	100
110	6.7 19.1 57.3#
77	0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 5.640 ug/l

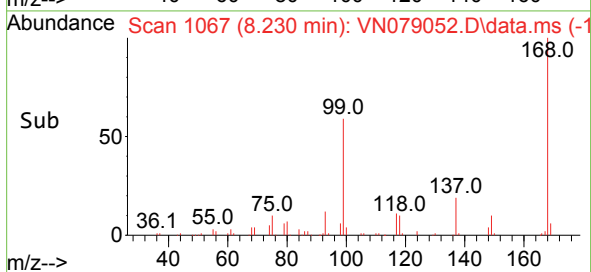
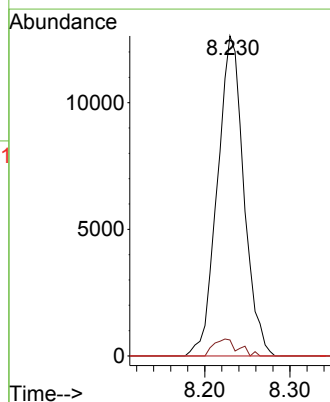
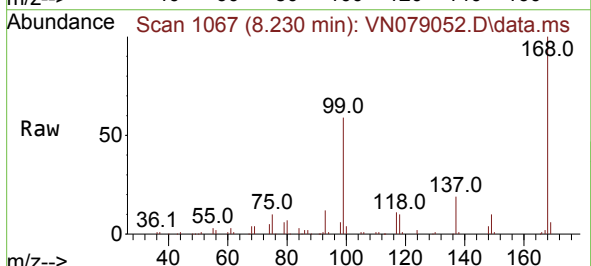
RT: 8.230 min Scan# 1067

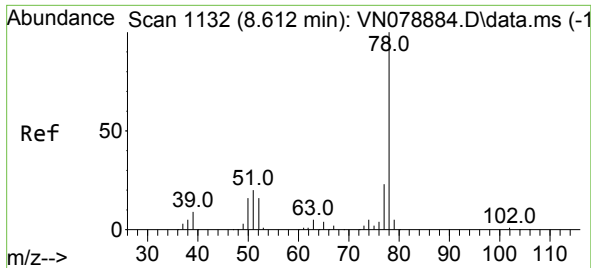
Delta R.T. -0.141 min

Lab File: VN079052.D

Acq: 25 Aug 2023 15:59

Tgt Ion: 117	Resp: 27262
Ion Ratio	Lower Upper
117	100
119	5.0 77.3 115.9#
121	0.0 23.3 34.9#

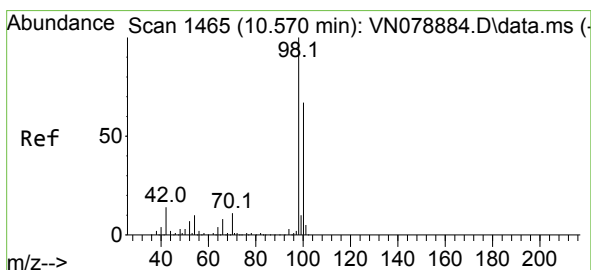
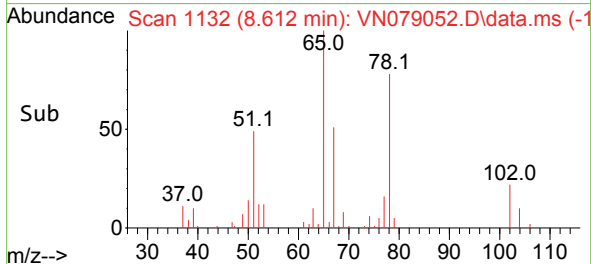
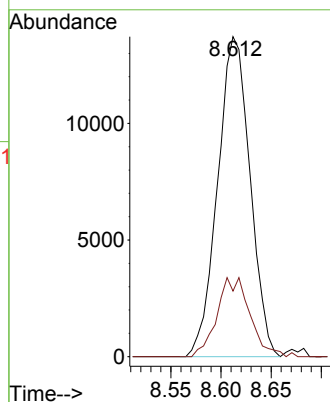
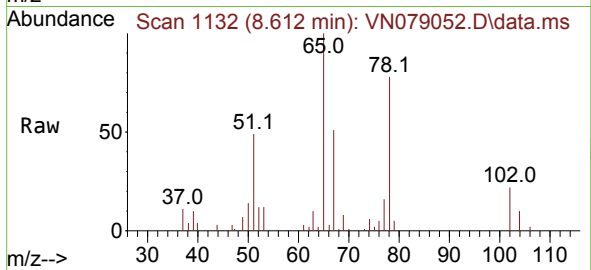




#40
Benzene
Concen: 2.158 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN079052.D
Acq: 25 Aug 2023 15:59

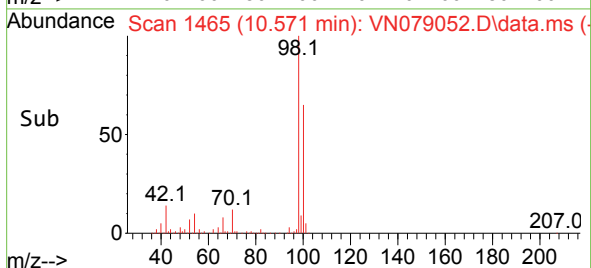
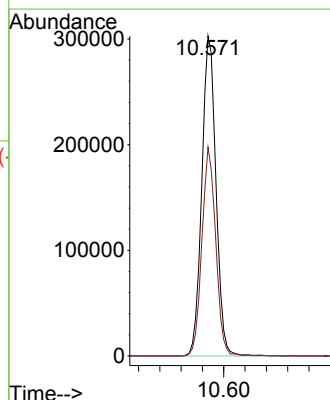
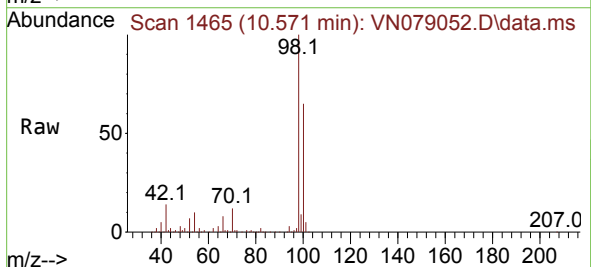
Instrument :
MSVOA_N
ClientSampleId :

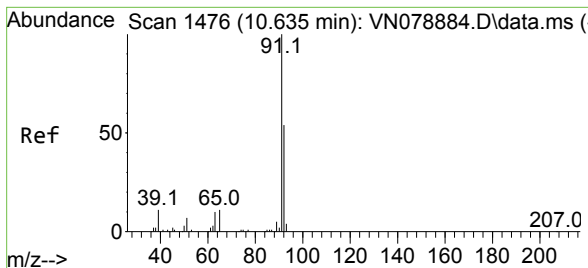
Tgt Ion: 78 Resp: 30764
Ion Ratio Lower Upper
78 100
77 20.5 19.0 28.6



#50
Toluene-d8
Concen: 46.852 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079052.D
Acq: 25 Aug 2023 15:59

Tgt Ion: 98 Resp: 557865
Ion Ratio Lower Upper
98 100
100 63.8 52.0 78.0





#52

Toluene

Concen: 1.519 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VN079052.D

Acq: 25 Aug 2023 15:59

Instrument :

MSVOA_N

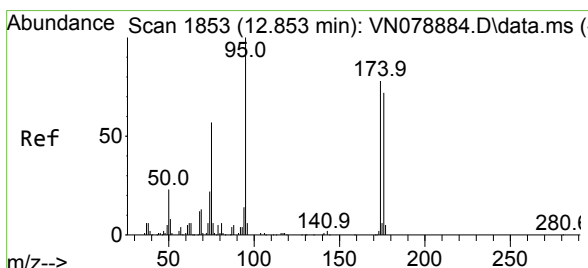
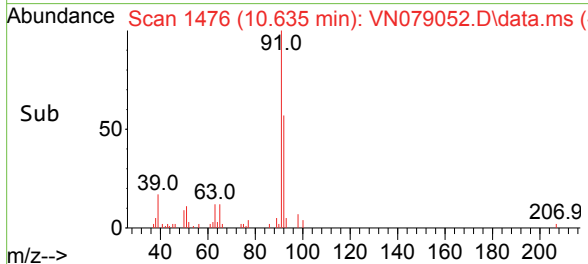
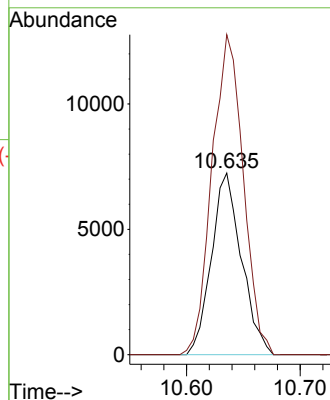
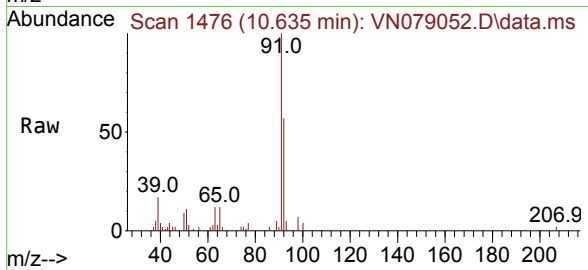
ClientSampleId :

Tgt Ion: 92 Resp: 13300

Ion Ratio Lower Upper

92 100

91 183.7 137.4 206.0



#62

4-Bromofluorobenzene

Concen: 51.748 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.000 min

Lab File: VN079052.D

Acq: 25 Aug 2023 15:59

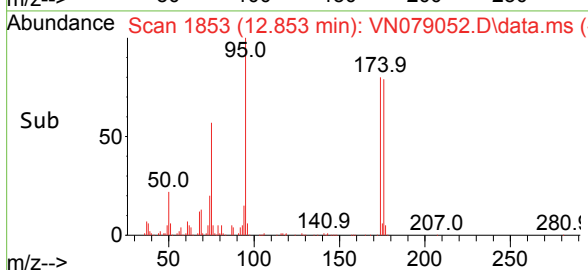
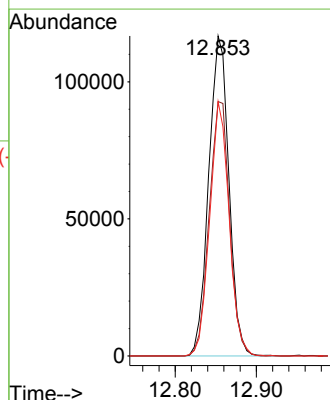
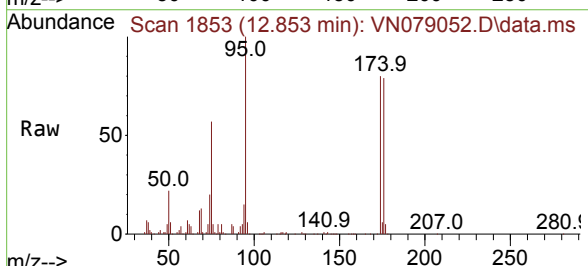
Tgt Ion: 95 Resp: 201401

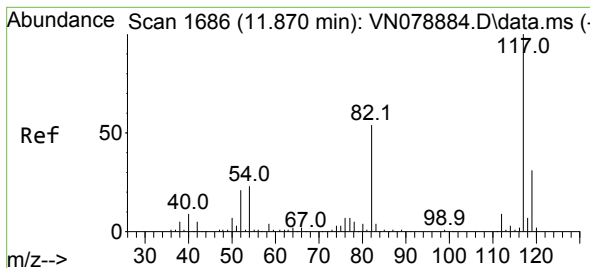
Ion Ratio Lower Upper

95 100

174 80.3 0.0 143.8

176 76.3 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN079052.D

Acq: 25 Aug 2023 15:59

Instrument :

MSVOA_N

ClientSampleId :

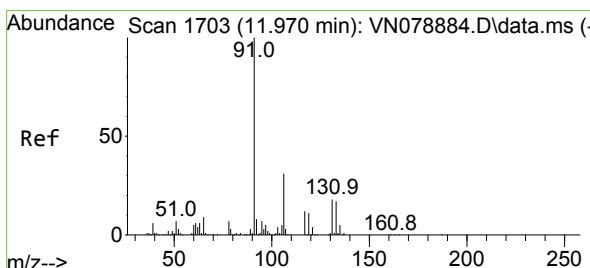
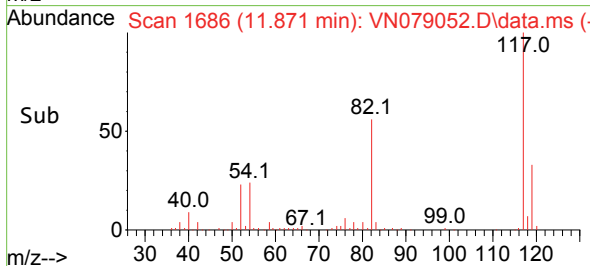
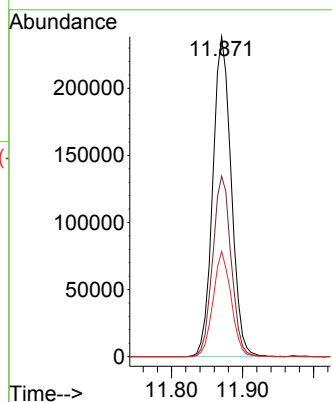
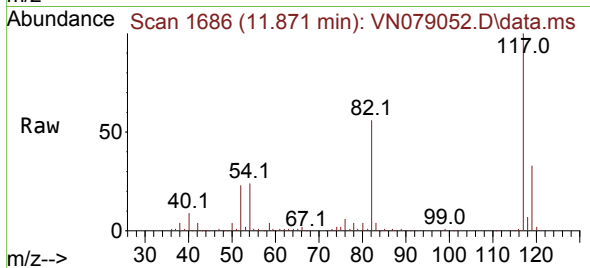
Tgt Ion:117 Resp: 429615

Ion Ratio Lower Upper

117 100

82 56.4 44.0 66.0

119 32.9 25.6 38.4



#67

Ethyl Benzene

Concen: 14.054 ug/l

RT: 11.971 min Scan# 1703

Delta R.T. -0.000 min

Lab File: VN079052.D

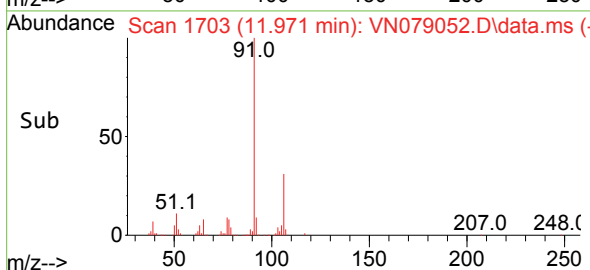
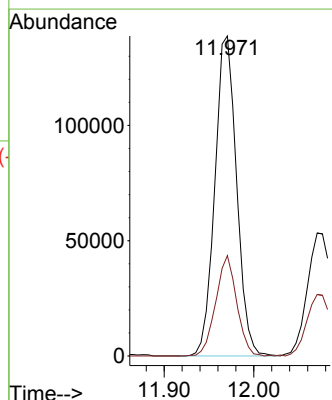
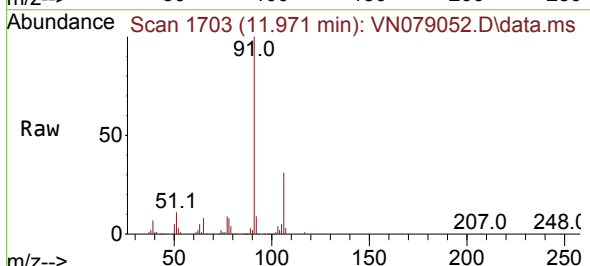
Acq: 25 Aug 2023 15:59

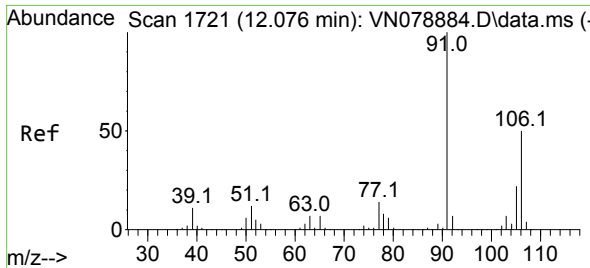
Tgt Ion: 91 Resp: 233727

Ion Ratio Lower Upper

91 100

106 31.4 25.6 38.4

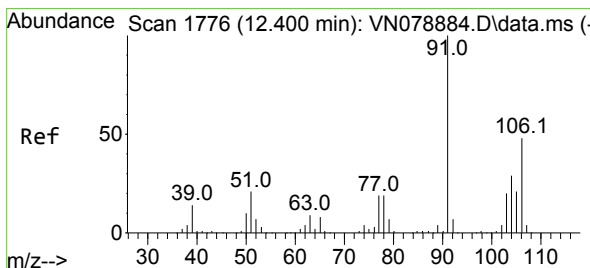
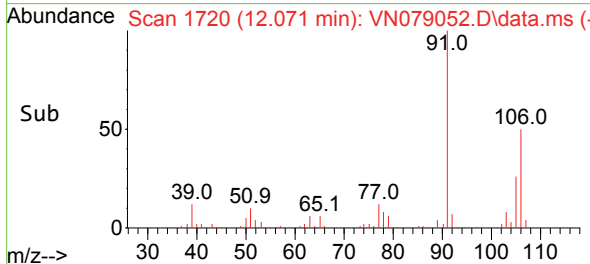
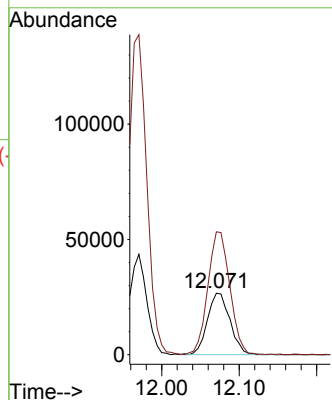
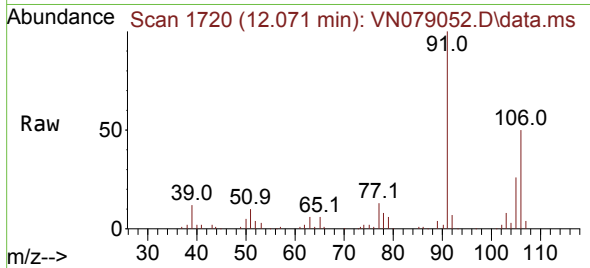




#68
m/p-Xylenes
Concen: 8.667 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.005 min
Lab File: VN079052.D
Acq: 25 Aug 2023 15:59

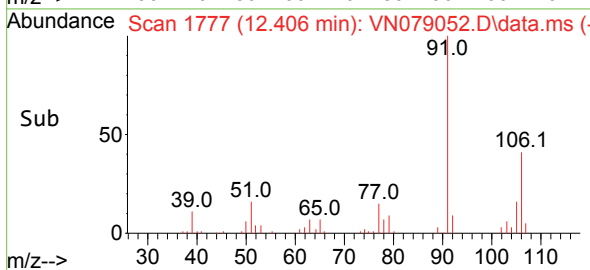
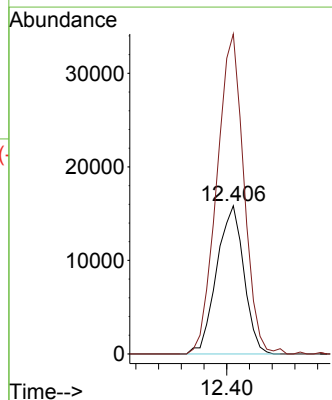
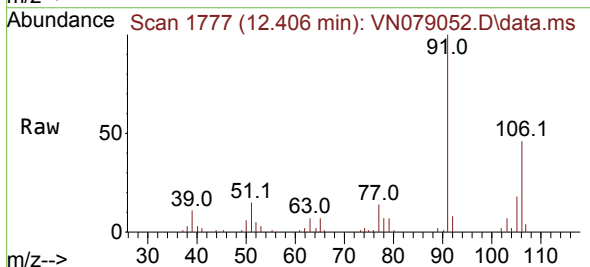
Instrument :
MSVOA_N
ClientSampleId :

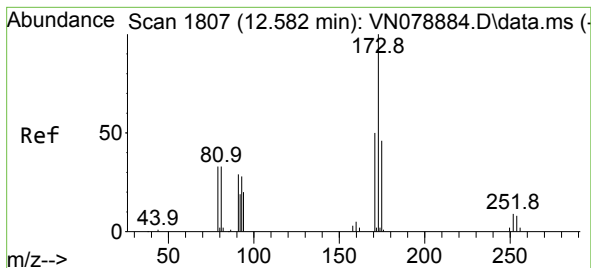
Tgt Ion:106 Resp: 53891
Ion Ratio Lower Upper
106 100
91 194.9 159.6 239.4



#69
o-Xylene
Concen: 4.355 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VN079052.D
Acq: 25 Aug 2023 15:59

Tgt Ion:106 Resp: 26340
Ion Ratio Lower Upper
106 100
91 214.8 105.2 315.5





#71

Bromoform

Concen: 0.276 ug/l

RT: 12.847 min Scan# 1807

Delta R.T. 0.265 min

Lab File: VN079052.D

Acq: 25 Aug 2023 15:59

Instrument :

MSVOA_N

ClientSampleId :

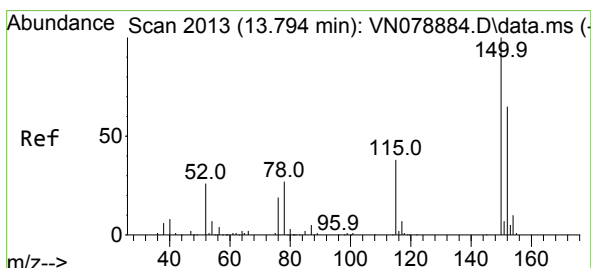
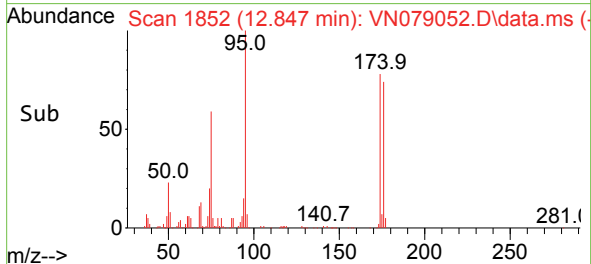
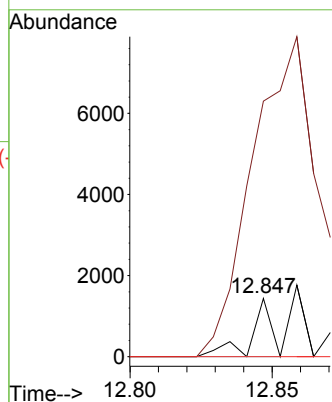
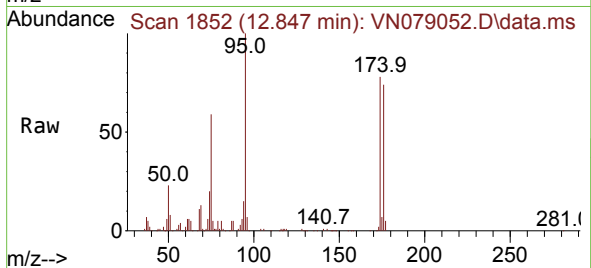
Tgt Ion:173 Resp: 693

Ion Ratio Lower Upper

173 100

175 0.0 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. -0.000 min

Lab File: VN079052.D

Acq: 25 Aug 2023 15:59

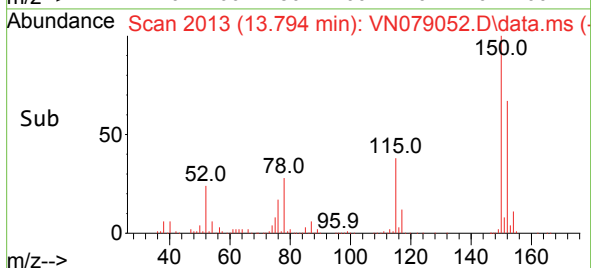
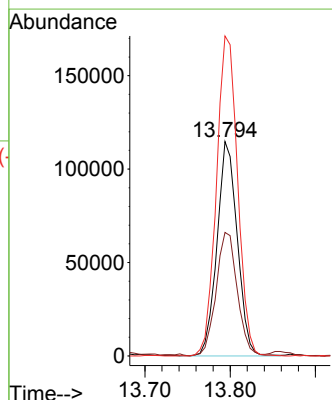
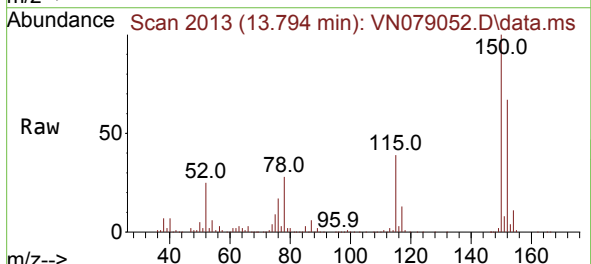
Tgt Ion:152 Resp: 189577

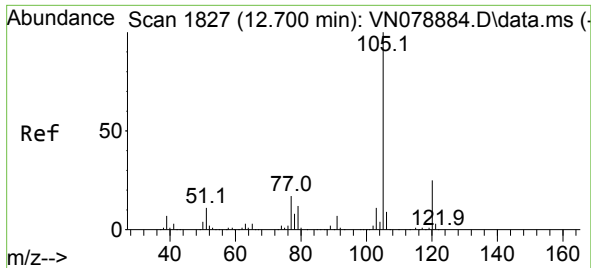
Ion Ratio Lower Upper

152 100

115 59.8 32.3 96.8

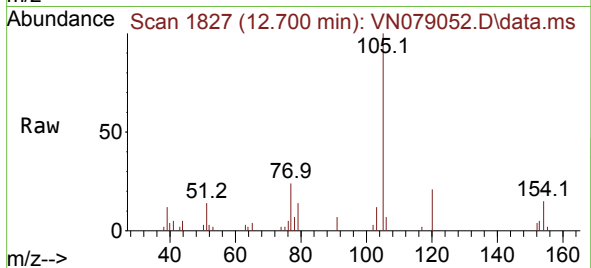
150 155.8 0.0 355.8



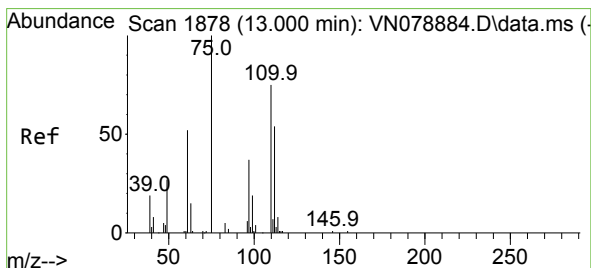
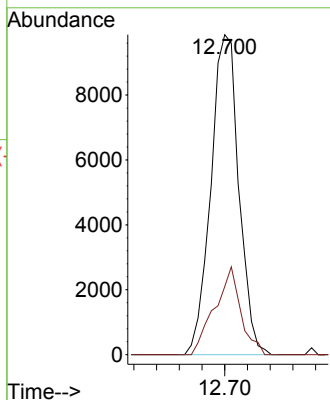
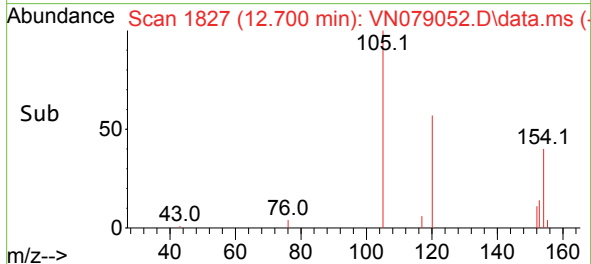


#73
Isopropylbenzene
Concen: 1.067 ug/l
RT: 12.700 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN079052.D
Acq: 25 Aug 2023 15:59

Instrument :
MSVOA_N
ClientSampleId :

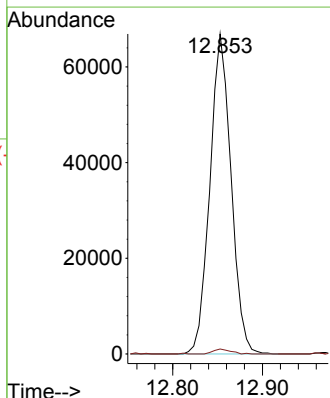
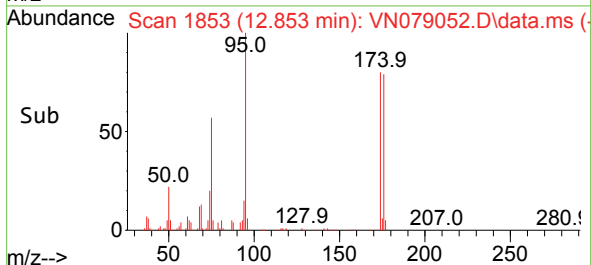
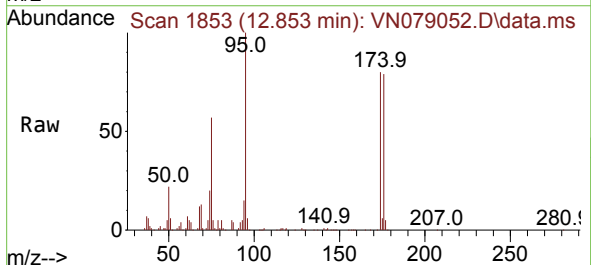


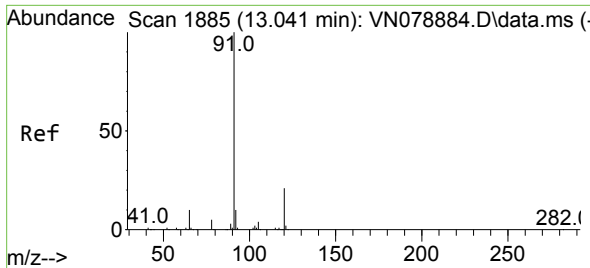
Tgt Ion:105 Resp: 16866
Ion Ratio Lower Upper
105 100
120 25.6 13.1 39.1



#76
1,2,3-Trichloropropane
Concen: 24.053 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN079052.D
Acq: 25 Aug 2023 15:59

Tgt Ion: 75 Resp: 109871
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#

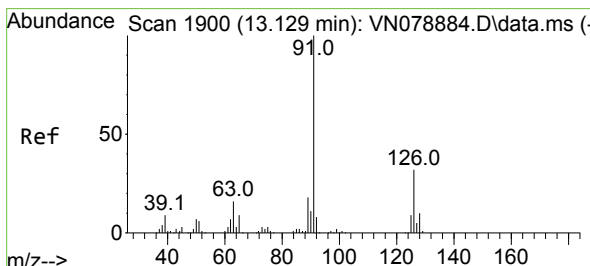
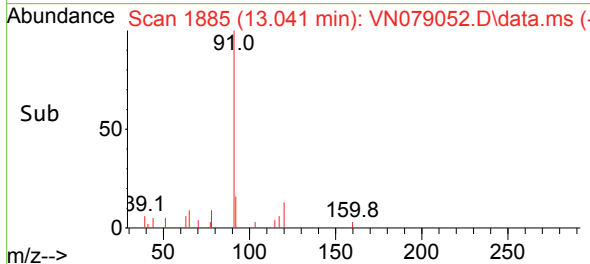
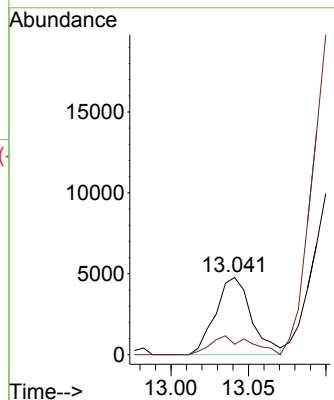
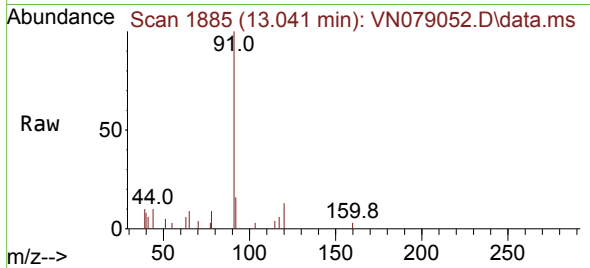




#78
n-propylbenzene
Concen: 0.421 ug/l
RT: 13.041 min Scan# 1885
Delta R.T. 0.000 min
Lab File: VN079052.D
Acq: 25 Aug 2023 15:59

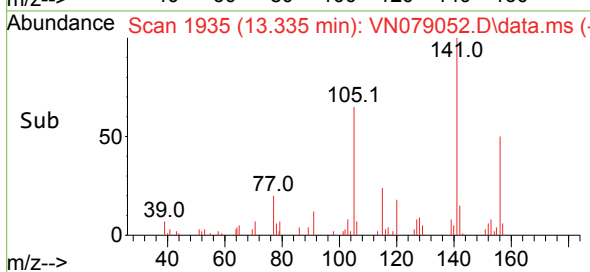
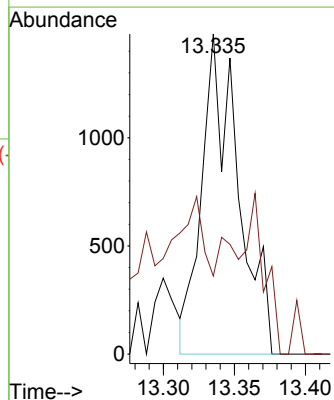
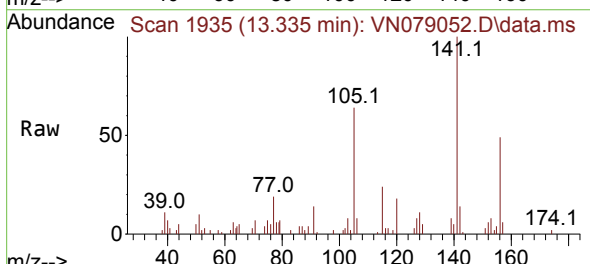
Instrument :
MSVOA_N
ClientSampleId :

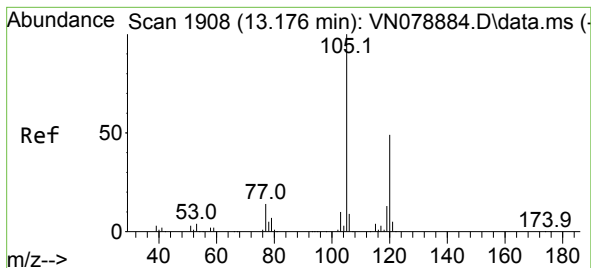
Tgt Ion: 91 Resp: 7709
Ion Ratio Lower Upper
91 100
120 27.2 11.5 34.4



#79
2-Chlorotoluene
Concen: 0.231 ug/l
RT: 13.335 min Scan# 1935
Delta R.T. 0.206 min
Lab File: VN079052.D
Acq: 25 Aug 2023 15:59

Tgt Ion: 91 Resp: 2622
Ion Ratio Lower Upper
91 100
126 43.7 16.3 48.8





#80

1,3,5-Trimethylbenzene

Concen: 1.217 ug/l

RT: 13.182 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VN079052.D

Acq: 25 Aug 2023 15:59

Instrument :

MSVOA_N

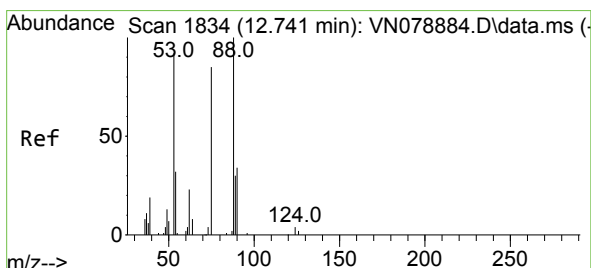
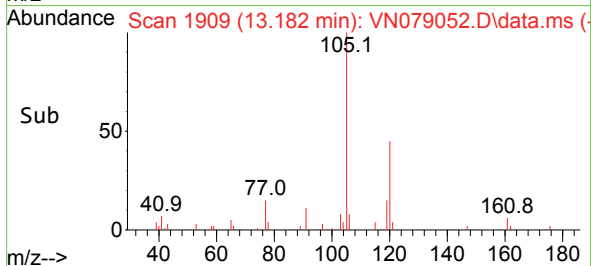
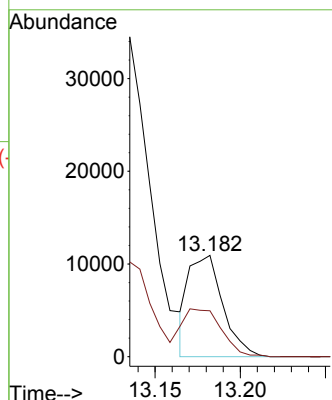
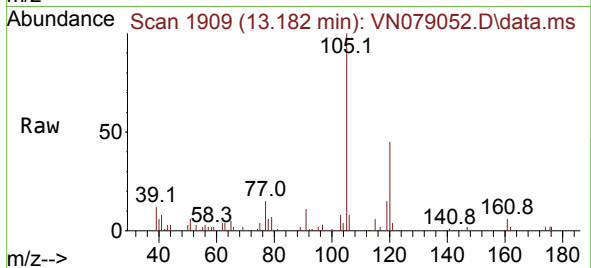
ClientSampleId :

Tgt Ion:105 Resp: 15250

Ion Ratio Lower Upper

105 100

120 55.7 24.1 72.3



#81

trans-1,4-Dichloro-2-butene

Concen: 61.445 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN079052.D

Acq: 25 Aug 2023 15:59

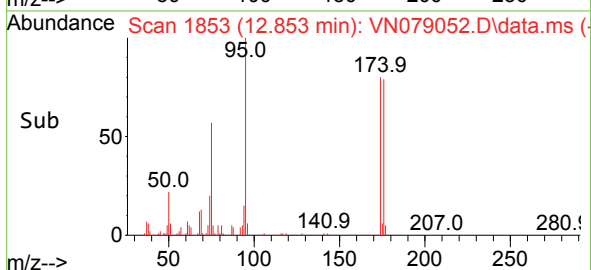
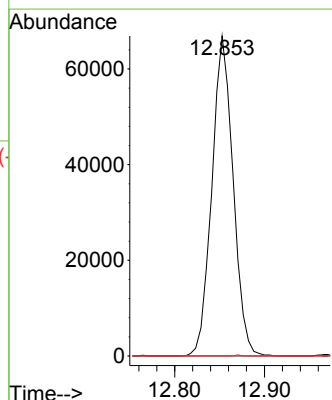
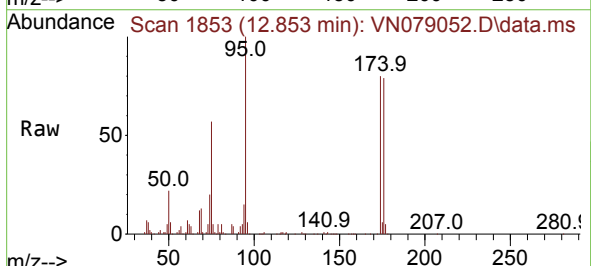
Tgt Ion: 75 Resp: 109871

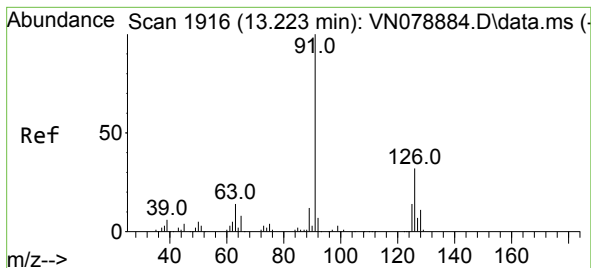
Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.2#

89 0.1 38.8 58.2#





#82

4-Chlorotoluene

Concen: 0.236 ug/l

RT: 13.335 min Scan# 1916

Delta R.T. 0.106 min

Lab File: VN079052.D

Acq: 25 Aug 2023 15:59

Instrument :

MSVOA_N

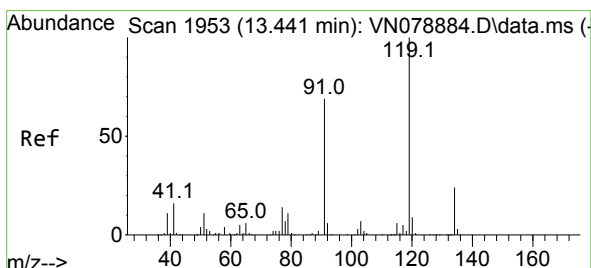
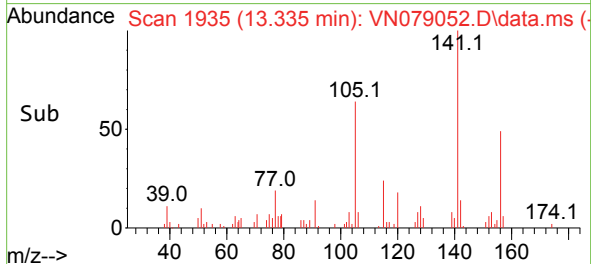
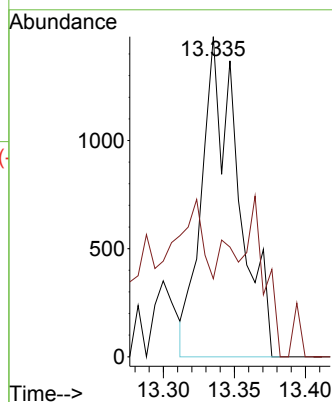
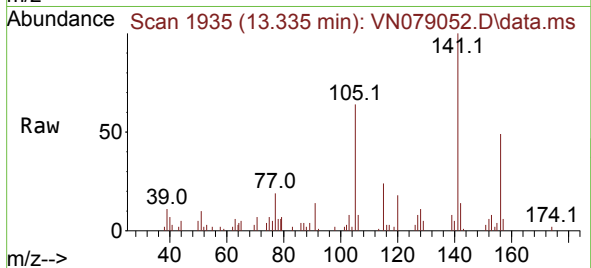
ClientSampleId :

Tgt Ion: 91 Resp: 2622

Ion Ratio Lower Upper

91 100

126 43.7 16.7 50.0



#83

tert-Butylbenzene

Concen: 0.853 ug/l

RT: 13.676 min Scan# 1993

Delta R.T. 0.235 min

Lab File: VN079052.D

Acq: 25 Aug 2023 15:59

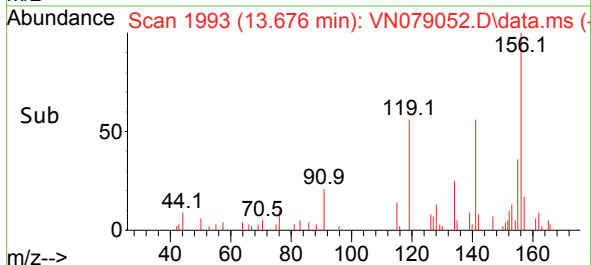
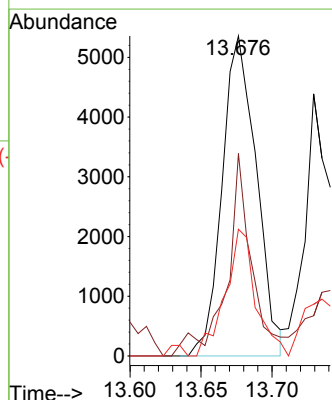
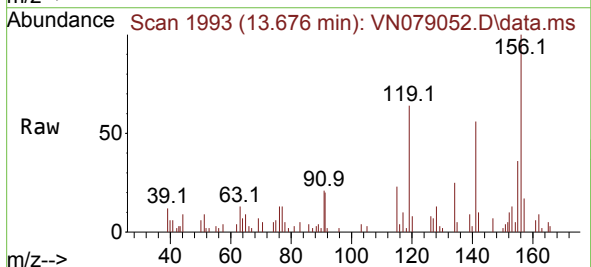
Tgt Ion: 119 Resp: 8983

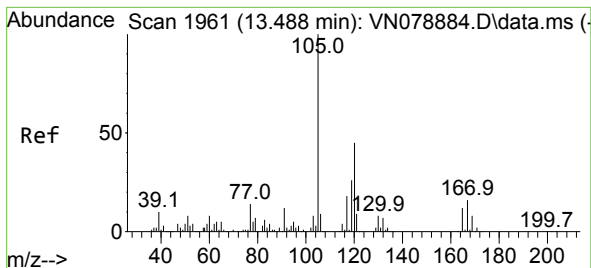
Ion Ratio Lower Upper

119 100

91 46.8 33.9 101.7

134 35.1 13.2 39.6





#84

1,2,4-Trimethylbenzene

Concen: 4.871 ug/l

RT: 13.488 min Scan# 1961

Delta R.T. 0.000 min

Lab File: VN079052.D

Acq: 25 Aug 2023 15:59

Instrument :

MSVOA_N

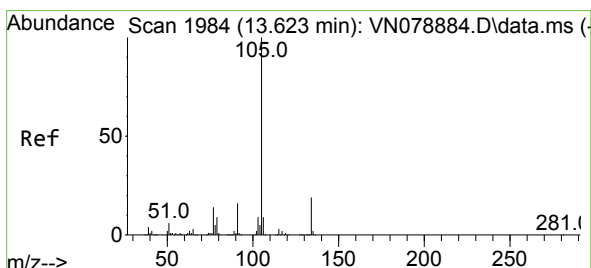
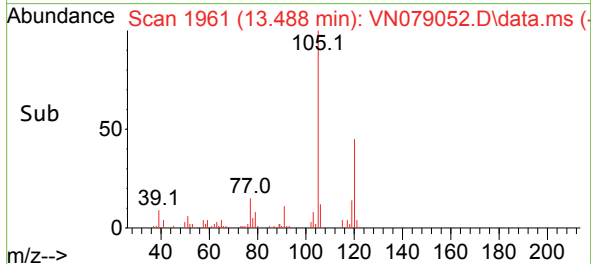
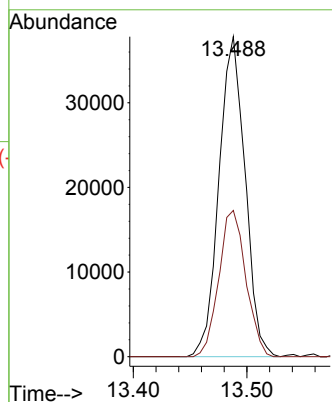
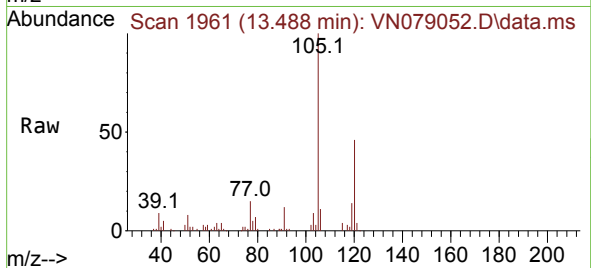
ClientSampleId :

Tgt Ion:105 Resp: 60422

Ion Ratio Lower Upper

105 100

120 47.3 22.0 66.0



#85

sec-Butylbenzene

Concen: 4.171 ug/l

RT: 13.488 min Scan# 1961

Delta R.T. -0.135 min

Lab File: VN079052.D

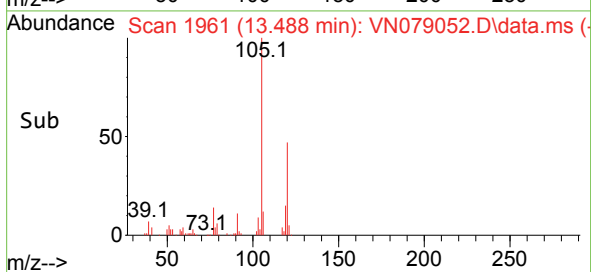
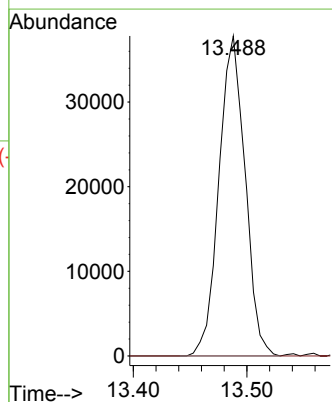
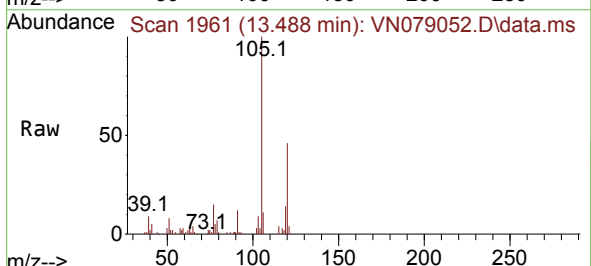
Acq: 25 Aug 2023 15:59

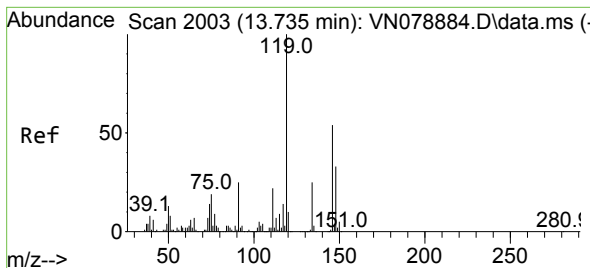
Tgt Ion:105 Resp: 60422

Ion Ratio Lower Upper

105 100

134 0.0 9.8 29.3#





#86

p-Isopropyltoluene

Concen: 0.520 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.006 min

Lab File: VN079052.D

Acq: 25 Aug 2023 15:59

Instrument :

MSVOA_N

ClientSampleId :

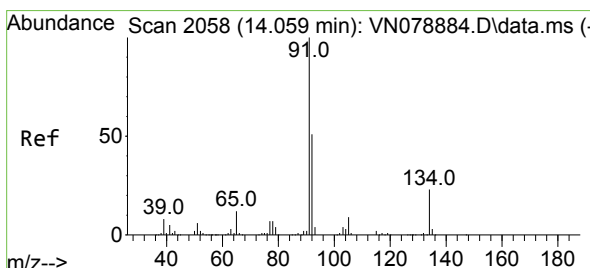
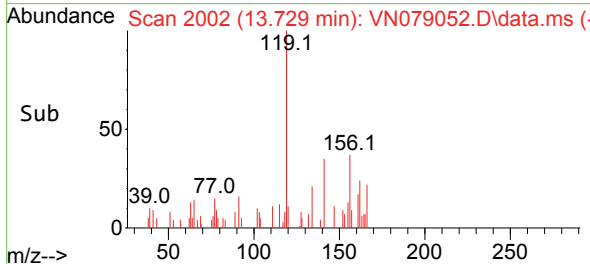
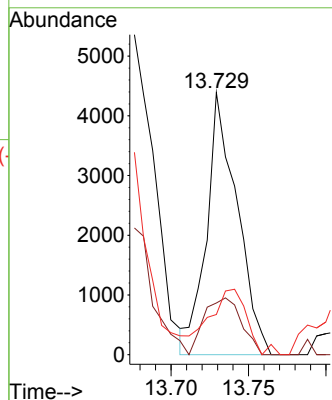
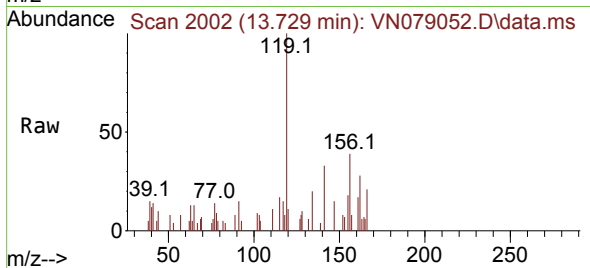
Tgt Ion:119 Resp: 6022

Ion Ratio Lower Upper

119 100

134 26.4 12.6 37.8

91 30.4 12.4 37.2



#89

n-Butylbenzene

Concen: 7.207 ug/l

RT: 14.000 min Scan# 2048

Delta R.T. -0.059 min

Lab File: VN079052.D

Acq: 25 Aug 2023 15:59

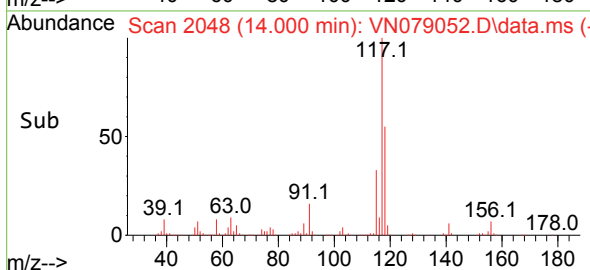
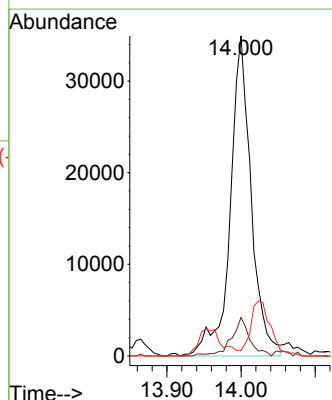
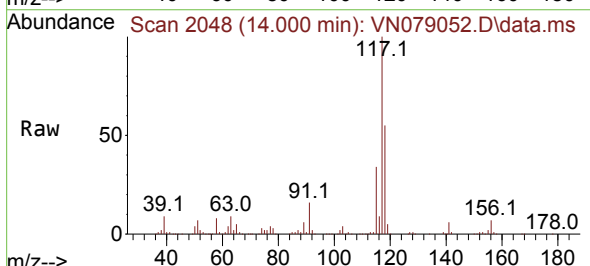
Tgt Ion: 91 Resp: 68637

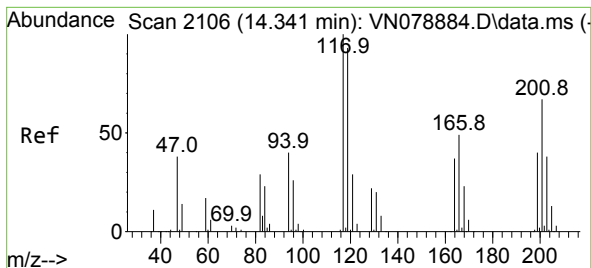
Ion Ratio Lower Upper

91 100

92 10.5 26.4 79.0#

134 0.0 12.6 37.6#





#90

Hexachloroethane

Concen: 1.764 ug/l

RT: 14.335 min Scan# 2105

Delta R.T. 0.000 min

Lab File: VN079052.D

Acq: 25 Aug 2023 15:59

Instrument :

MSVOA_N

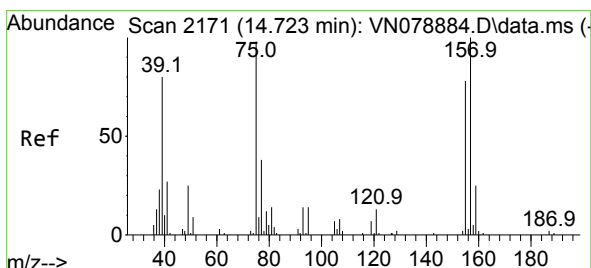
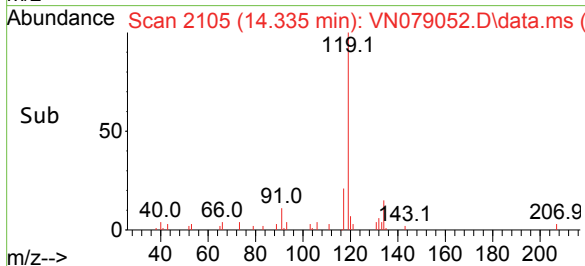
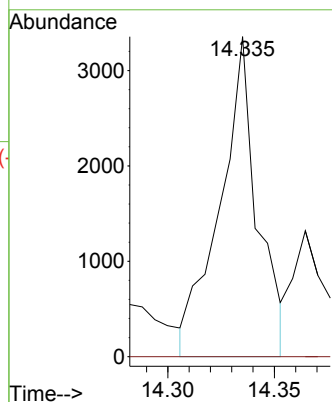
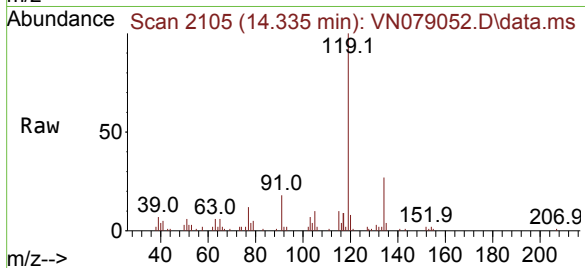
ClientSampleId :

Tgt Ion:117 Resp: 4092

Ion Ratio Lower Upper

117 100

201 0.0 29.3 88.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.447 min Scan# 2124

Delta R.T. -0.276 min

Lab File: VN079052.D

Acq: 25 Aug 2023 15:59

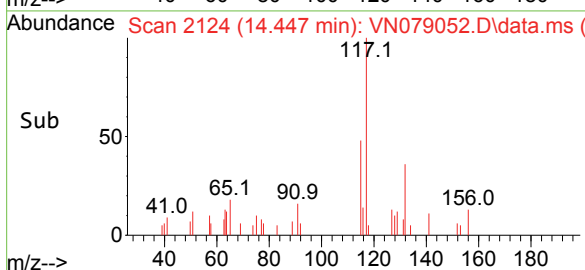
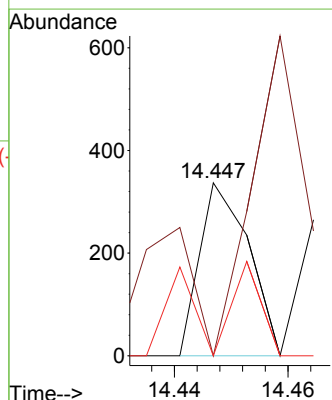
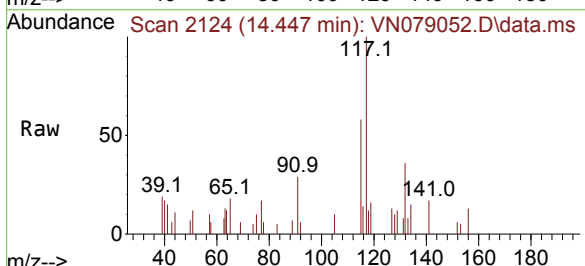
Tgt Ion: 75 Resp: 202

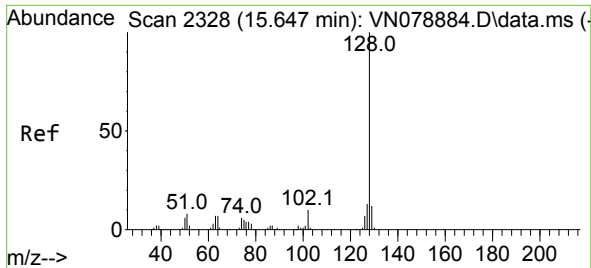
Ion Ratio Lower Upper

75 100

155 71.8 39.1 117.2

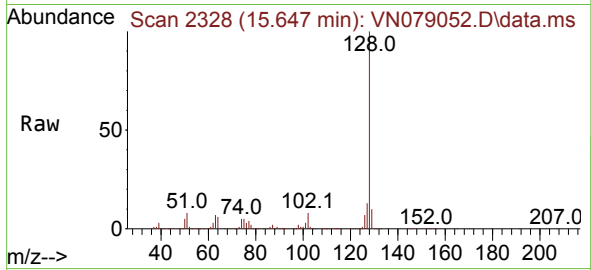
157 62.4 50.3 150.9





#95
Naphthalene
Concen: 195.060 ug/l
RT: 15.647 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN079052.D
Acq: 25 Aug 2023 15:59

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:128 Resp: 1772881
Ion Ratio Lower Upper
128 100
127 13.3 10.0 15.0
129 10.8 8.7 13.1

