

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031723\
 Data File : VN077056.D
 Acq On : 18 Mar 2023 00:39
 Operator : JC\MD
 Sample : 01941-17
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE114D2-20230314

Quant Time: Mar 18 02:39:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031723W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 18 02:17:37 2023
 Response via : Initial Calibration

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

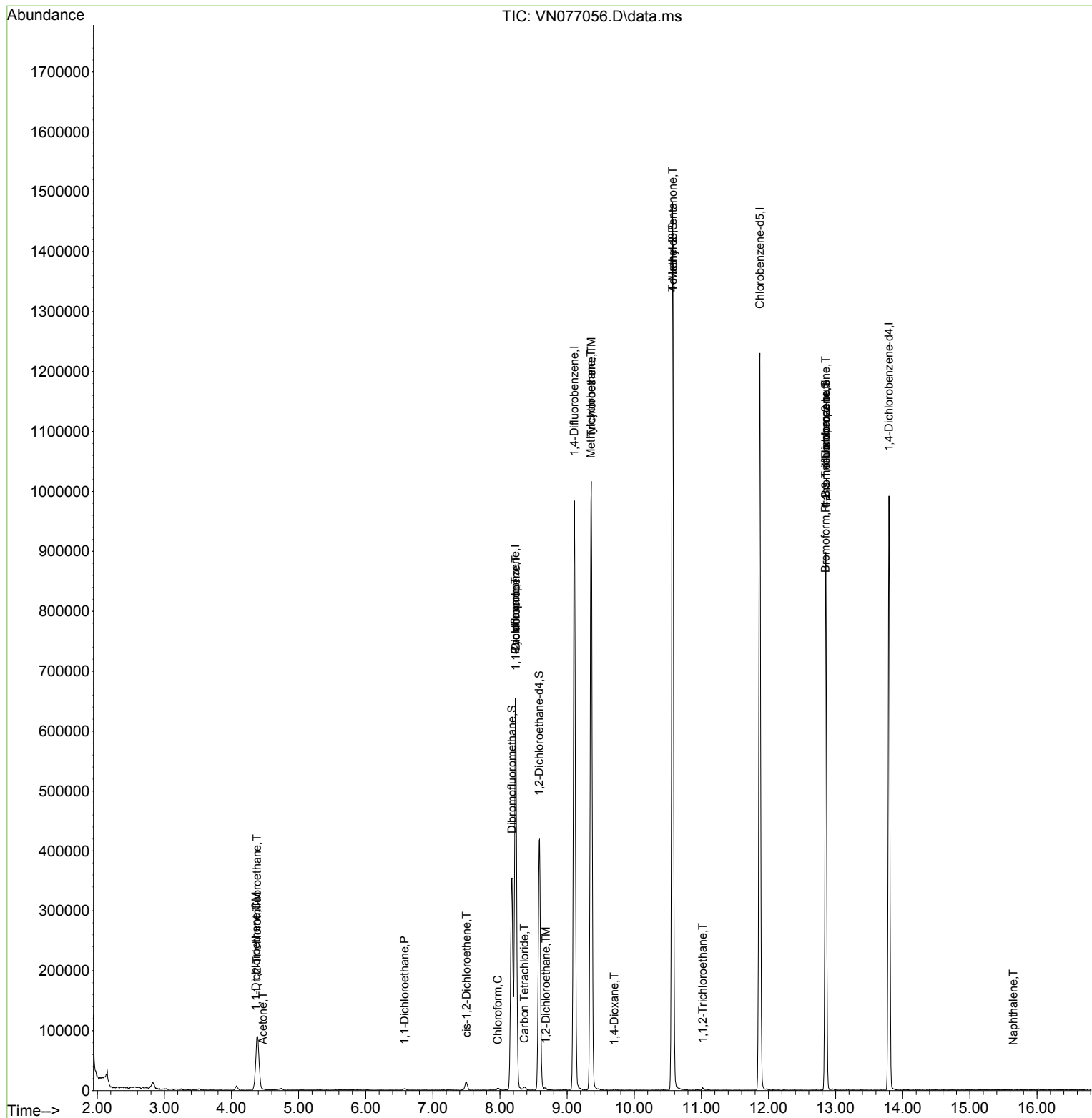
Internal Standards						
1) Pentafluorobenzene	8.231	168	440860	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	812146	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.872	117	707939	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	251406	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	352745	50.092	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	100.180%
35) Dibromofluoromethane	8.178	113	263378	46.308	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	92.620%
50) Toluene-d8	10.572	98	1001996	49.319	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.640%
62) 4-Bromofluorobenzene	12.854	95	313600	43.682	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	87.360%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.149	85	3353	Below Cal		83
9) 1,1,2-Trichlorotrifluo...	4.378	101	64657	11.051	ug/l	99
12) 1,1-Dichloroethene	4.366	96	4027	0.752	ug/l #	85
16) Acetone	4.466	43	1386	0.442	ug/l	96
24) 1,1-Dichloroethane	6.578	63	4055	0.330	ug/l #	84
27) cis-1,2-Dichloroethene	7.501	96	8511	1.281	ug/l	89
30) Chloroform	7.966	83	3901	0.327	ug/l #	70
31) Cyclohexane	8.231	56	11525	1.000	ug/l #	1
36) 1,1-Dichloropropene	8.236	75	40763	4.589	ug/l #	53
38) Carbon Tetrachloride	8.366	117	3432	0.397	ug/l #	83
39) Methylcyclohexane	9.354	83	4764	0.458	ug/l #	1
42) 1,2-Dichloroethane	8.684	62	2214	0.227	ug/l #	76
44) Trichloroethene	9.360	130	357667	57.797	ug/l	96
49) 1,4-Dioxane	9.701	88	1062	8.760	ug/l #	93
51) 4-Methyl-2-Pentanone	10.572	43	4387	0.474	ug/l #	1
55) 1,1,2-Trichloroethane	11.019	97	1299	0.205	ug/l #	57
71) Bromoform	12.848	173	1254	0.307	ug/l #	28
76) 1,2,3-Trichloropropane	12.854	75	165887	25.509	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	165887	70.216	ug/l #	10
95) Naphthalene	15.648	128	232	1.925	ug/l #	70

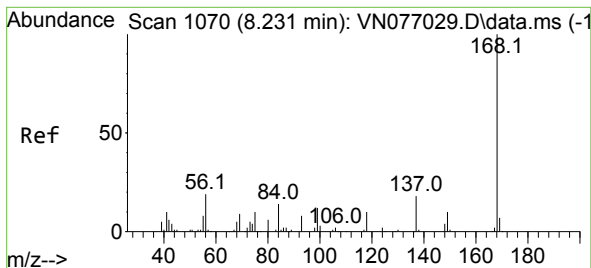
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.231 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN077056.D

Acq: 18 Mar 2023 00:39

Instrument :

MSVOA_N

ClientSampleId :

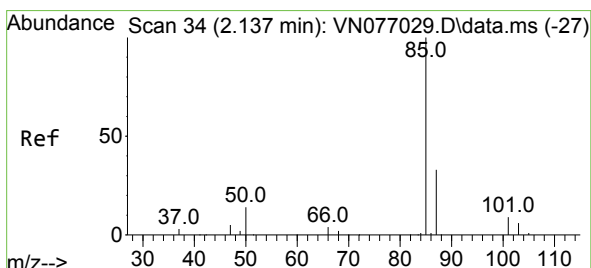
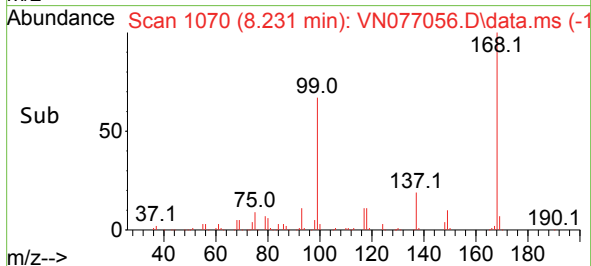
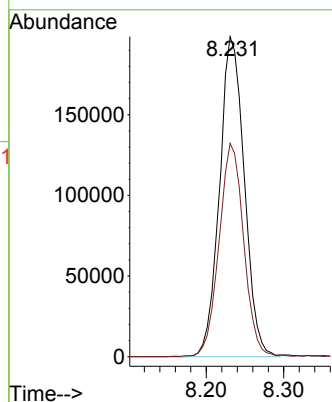
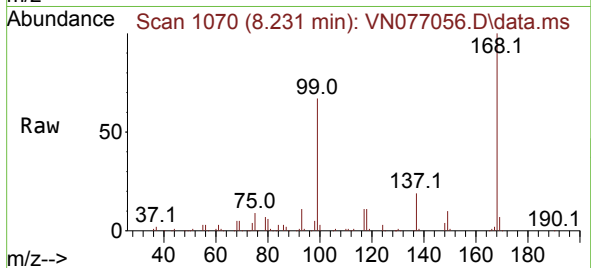
RE114D2-20230314

Tgt Ion:168 Resp: 440860

Ion Ratio Lower Upper

168 100

99 66.5 53.9 80.9



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.149 min Scan# 36

Delta R.T. 0.012 min

Lab File: VN077056.D

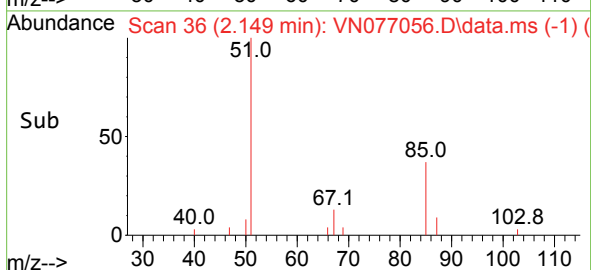
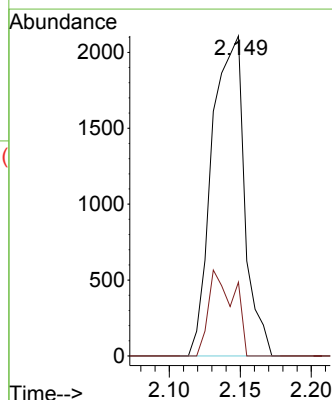
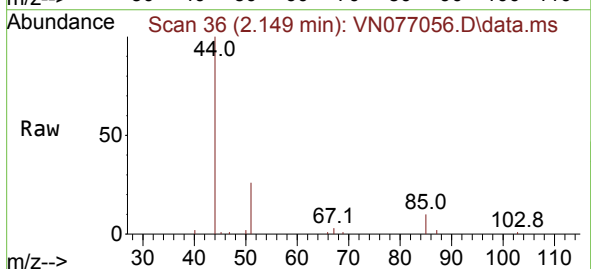
Acq: 18 Mar 2023 00:39

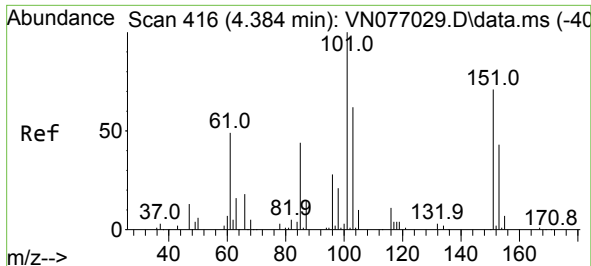
Tgt Ion: 85 Resp: 3353

Ion Ratio Lower Upper

85 100

87 23.1 16.4 49.2

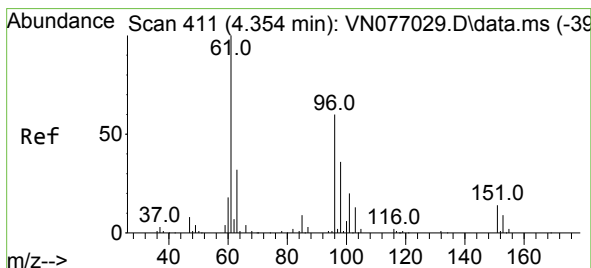
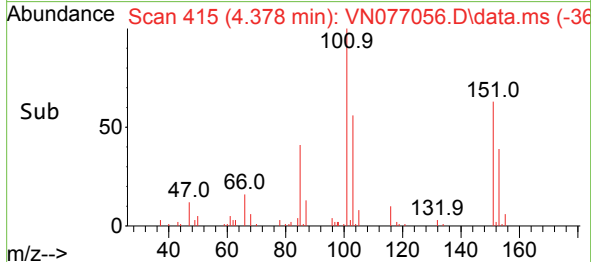
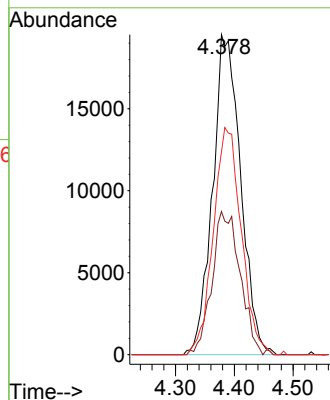
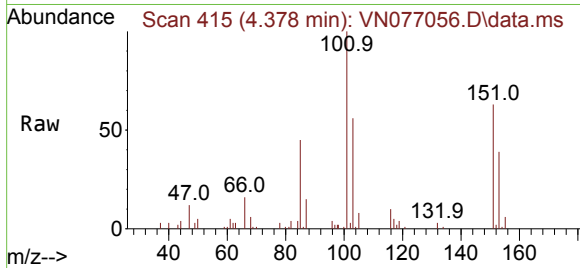




#9
1,1,2-Trichlorotrifluoroethane
Concen: 11.051 ug/l
RT: 4.378 min Scan# 416
Delta R.T. -0.006 min
Lab File: VN077056.D
Acq: 18 Mar 2023 00:39

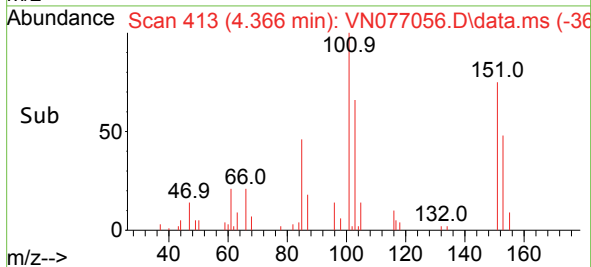
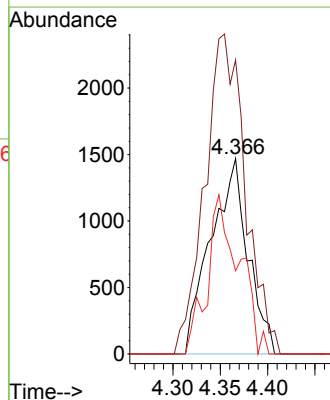
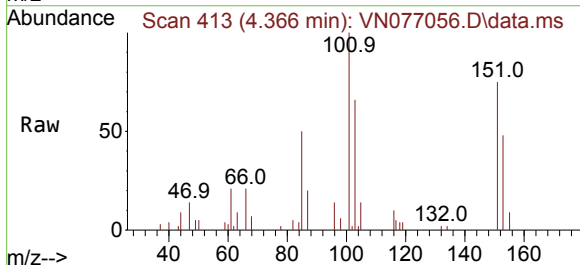
Instrument :
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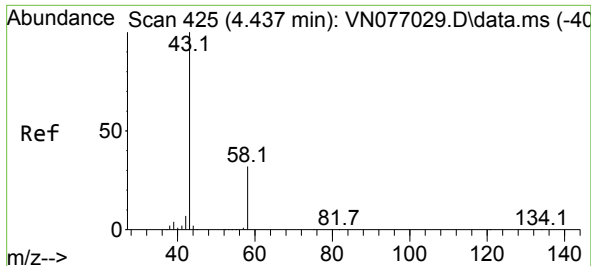
Tgt Ion:101 Resp: 64657
Ion Ratio Lower Upper
101 100
85 44.8 36.6 55.0
151 70.8 56.9 85.3



#12
1,1-Dichloroethene
Concen: 0.752 ug/l
RT: 4.366 min Scan# 413
Delta R.T. 0.012 min
Lab File: VN077056.D
Acq: 18 Mar 2023 00:39

Tgt Ion: 96 Resp: 4027
Ion Ratio Lower Upper
96 100
61 150.5 133.8 200.8
98 42.6 48.6 72.8#

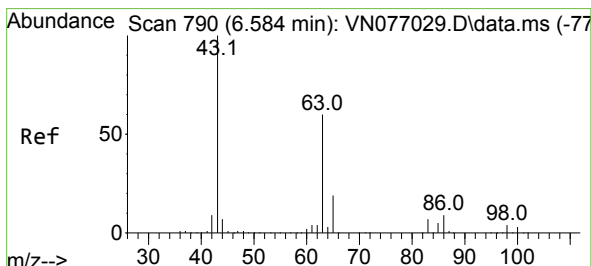
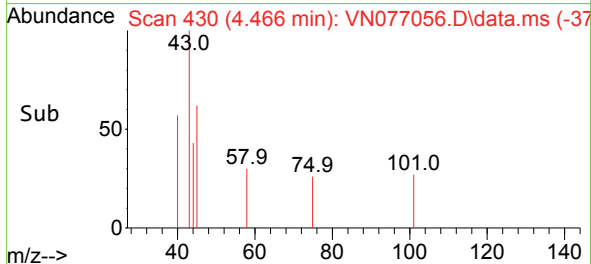
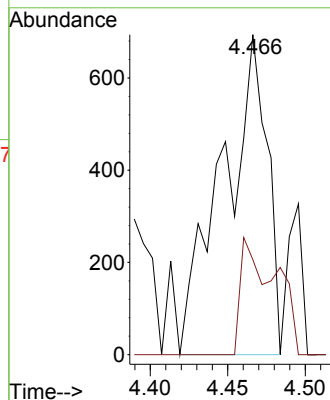
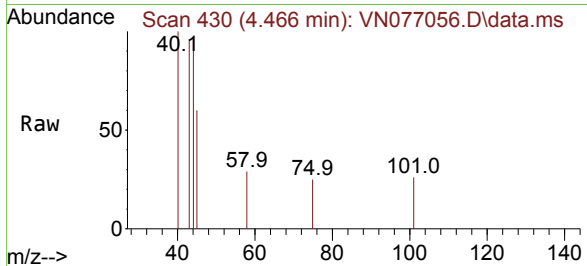




#16
Acetone
Concen: 0.442 ug/l
RT: 4.466 min Scan# 41
Delta R.T. 0.029 min
Lab File: VN077056.D
Acq: 18 Mar 2023 00:39

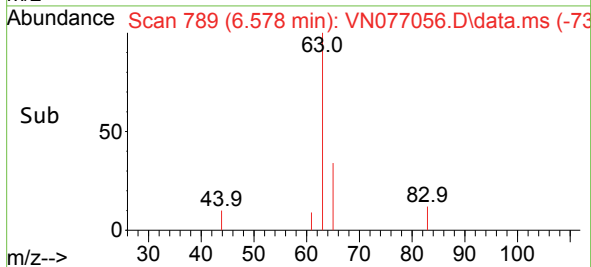
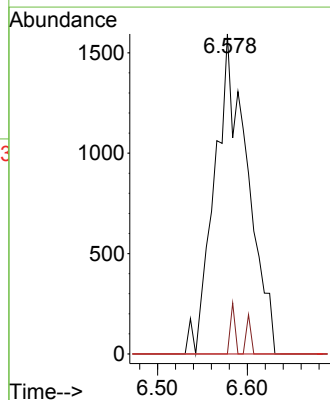
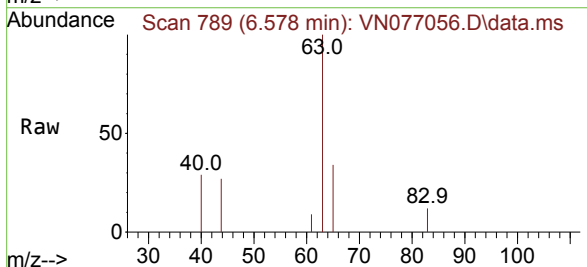
Instrument :
MSVOA_N
ClientSampleId :
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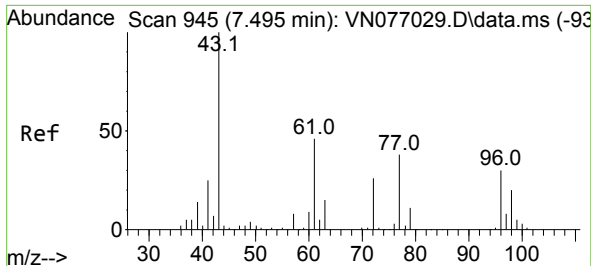
Tgt Ion: 43 Resp: 1386
Ion Ratio Lower Upper
43 100
58 29.7 25.4 38.0



#24
1,1-Dichloroethane
Concen: 0.330 ug/l
RT: 6.578 min Scan# 789
Delta R.T. -0.006 min
Lab File: VN077056.D
Acq: 18 Mar 2023 00:39

Tgt Ion: 63 Resp: 4055
Ion Ratio Lower Upper
63 100
98 0.0 3.1 9.4#
100 0.0 2.1 6.3#

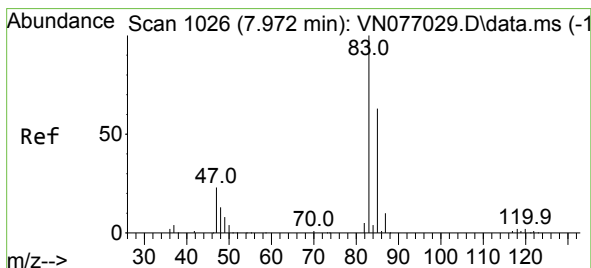
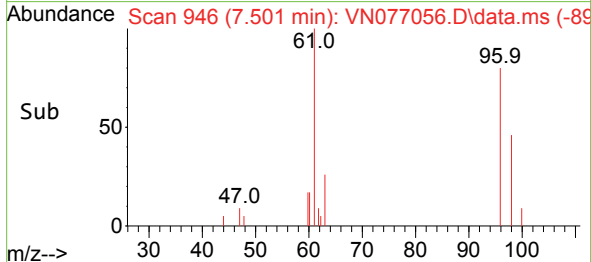
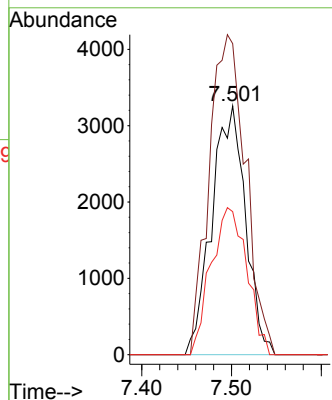
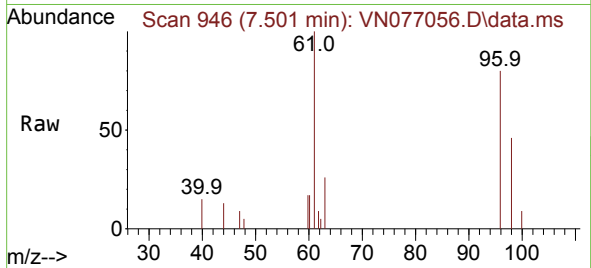




#27
cis-1,2-Dichloroethene
Concen: 1.281 ug/l
RT: 7.501 min Scan# 945
Delta R.T. 0.006 min
Lab File: VN077056.D
Acq: 18 Mar 2023 00:39

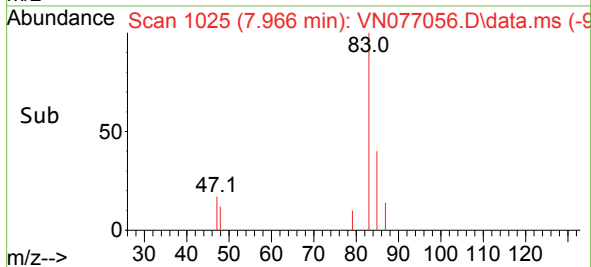
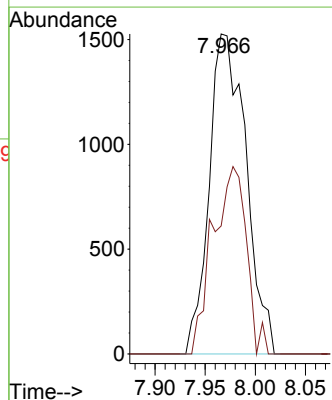
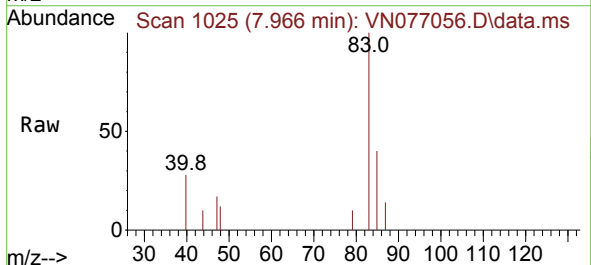
Instrument :
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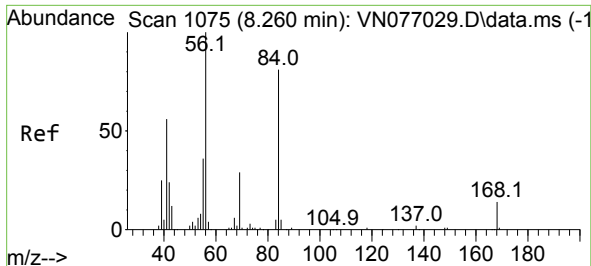
Tgt Ion: 96 Resp: 8511
Ion Ratio Lower Upper
96 100
61 138.9 0.0 315.4
98 62.8 0.0 128.6



#30
Chloroform
Concen: 0.327 ug/l
RT: 7.966 min Scan# 1025
Delta R.T. -0.006 min
Lab File: VN077056.D
Acq: 18 Mar 2023 00:39

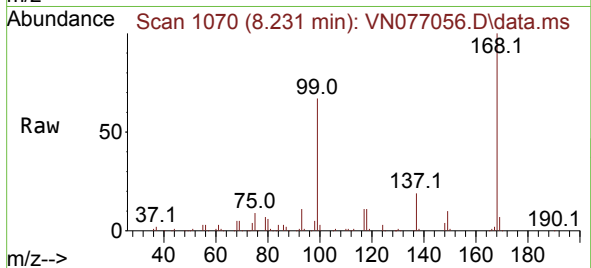
Tgt Ion: 83 Resp: 3901
Ion Ratio Lower Upper
83 100
85 40.0 50.6 75.8#



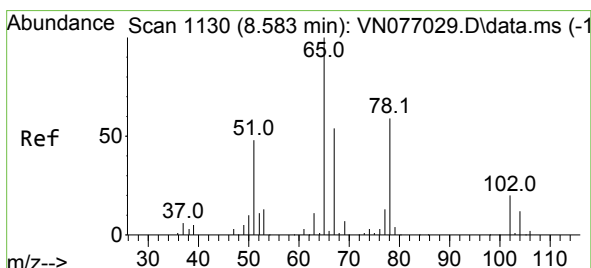
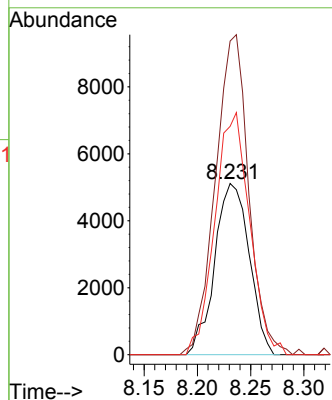
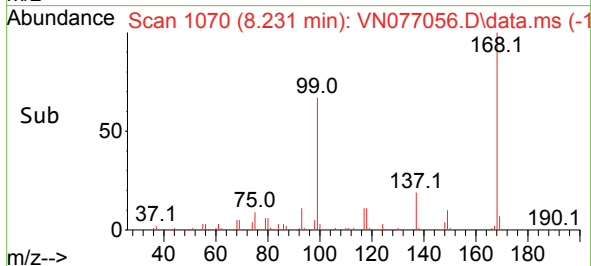


#31
Cyclohexane
Concen: 1.000 ug/l
RT: 8.231 min Scan# 1075
Delta R.T. -0.029 min
Lab File: VN077056.D
Acq: 18 Mar 2023 00:39

Instrument :
MSVOA_N
ClientSampleId :
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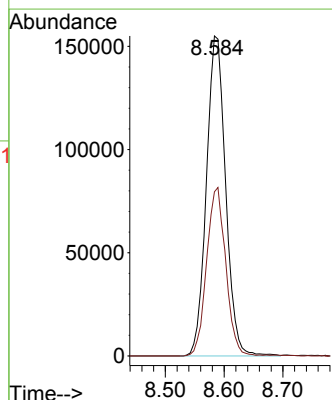
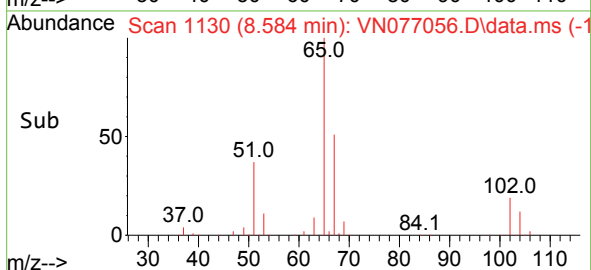
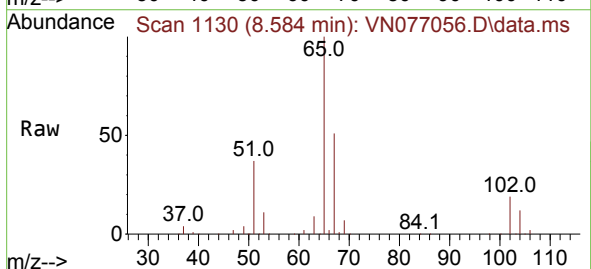


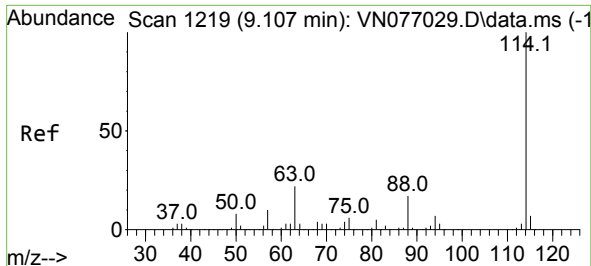
Tgt Ion: 56 Resp: 11525
Ion Ratio Lower Upper
56 100
69 183.2 22.8 34.2#
84 133.4 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 50.092 ug/l
RT: 8.584 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN077056.D
Acq: 18 Mar 2023 00:39

Tgt Ion: 65 Resp: 352745
Ion Ratio Lower Upper
65 100
67 52.3 0.0 105.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN077056.D

Acq: 18 Mar 2023 00:39

Instrument :

MSVOA_N

ClientSampleId :

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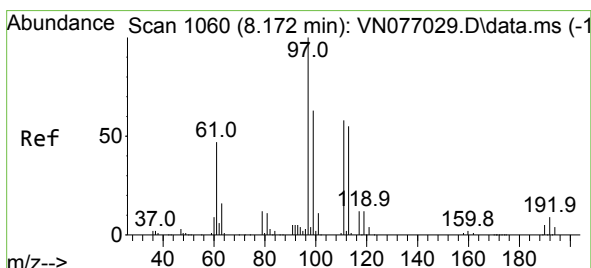
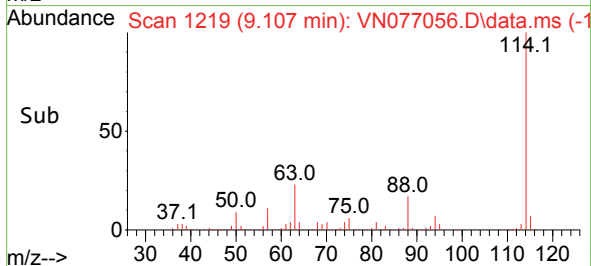
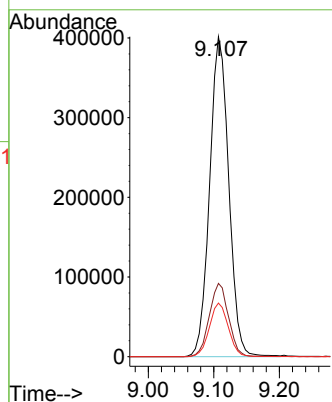
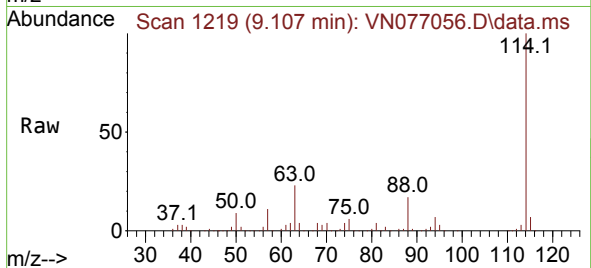
Tgt Ion:114 Resp: 812146

Ion Ratio Lower Upper

114 100

63 22.9 0.0 44.6

88 16.8 0.0 33.8



#35

Dibromofluoromethane

Concen: 46.308 ug/l

RT: 8.178 min Scan# 1061

Delta R.T. 0.006 min

Lab File: VN077056.D

Acq: 18 Mar 2023 00:39

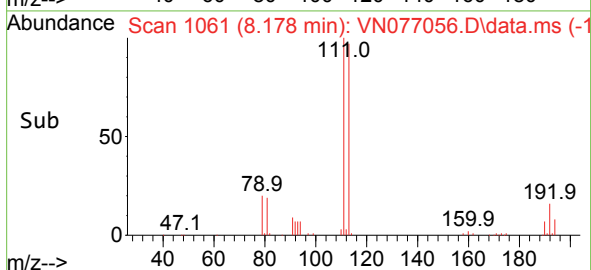
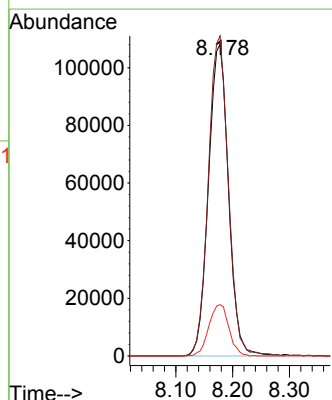
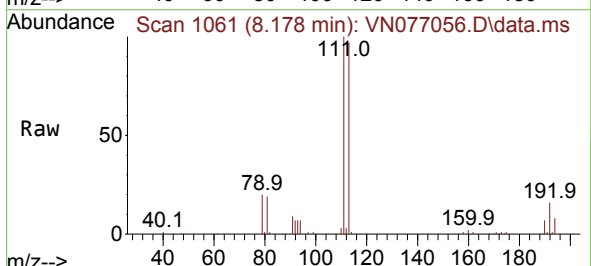
Tgt Ion:113 Resp: 263378

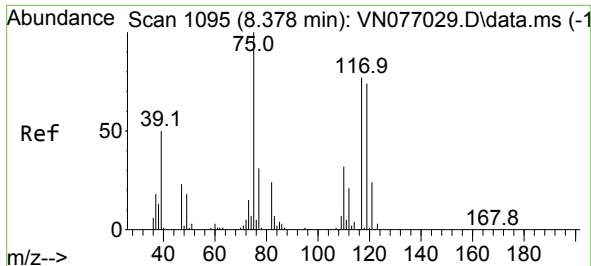
Ion Ratio Lower Upper

113 100

111 103.0 82.2 123.2

192 16.6 13.0 19.6





#36

1,1-Dichloropropene

Concen: 4.589 ug/l

RT: 8.236 min Scan# 1071

Delta R.T. -0.141 min

Lab File: VN077056.D

Acq: 18 Mar 2023 00:39

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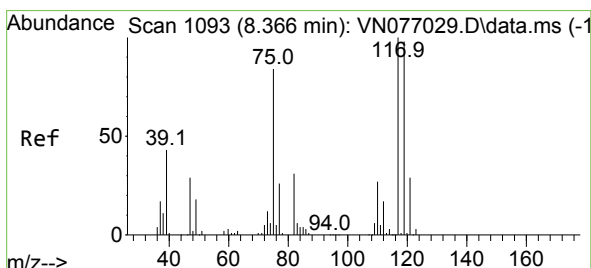
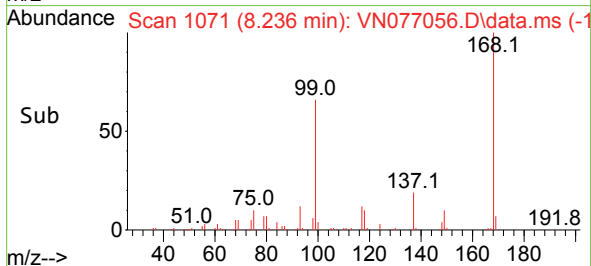
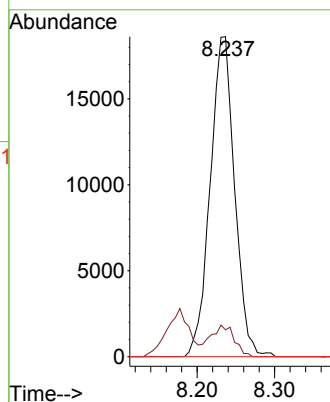
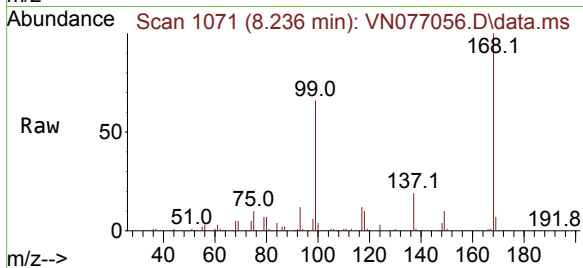
Tgt Ion: 75 Resp: 40763

Ion Ratio Lower Upper

75 100

110 9.9 15.9 47.7#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 0.397 ug/l

RT: 8.366 min Scan# 1093

Delta R.T. 0.000 min

Lab File: VN077056.D

Acq: 18 Mar 2023 00:39

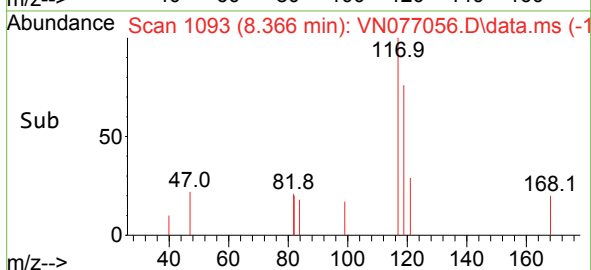
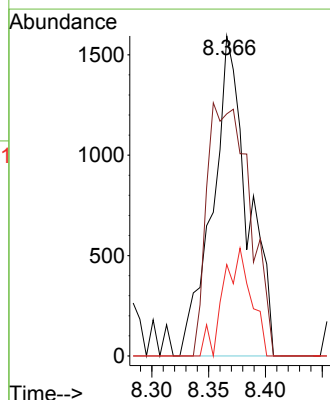
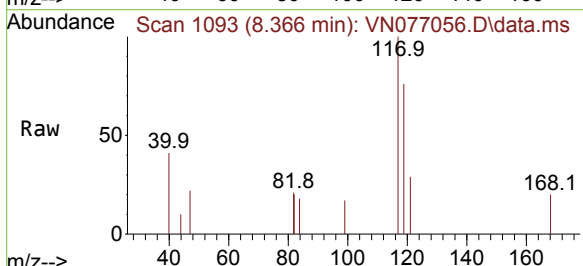
Tgt Ion: 117 Resp: 3432

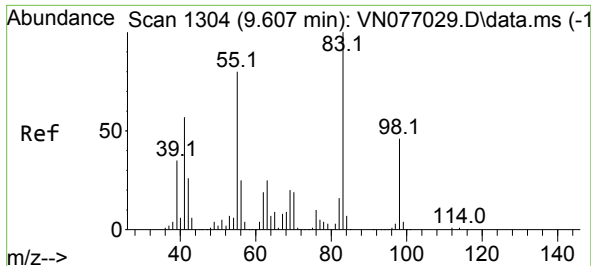
Ion Ratio Lower Upper

117 100

119 75.7 78.2 117.2#

121 28.5 23.2 34.8





#39

Methylcyclohexane

Concen: 0.458 ug/l

RT: 9.354 min Scan# 1147

Delta R.T. -0.253 min

Lab File: VN077056.D

Acq: 18 Mar 2023 00:39

Instrument :

MSVOA_N

ClientSampleId :

RE114D2-20230314

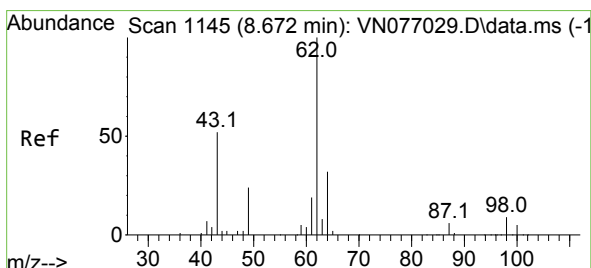
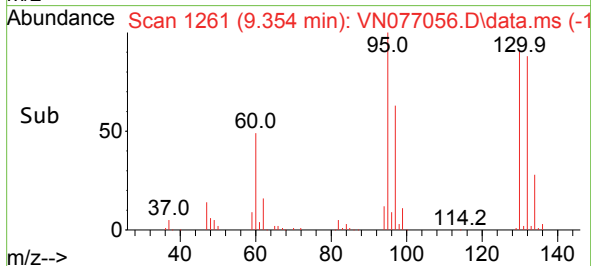
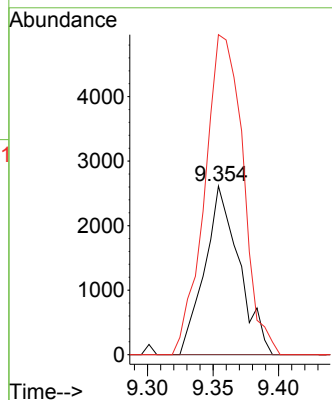
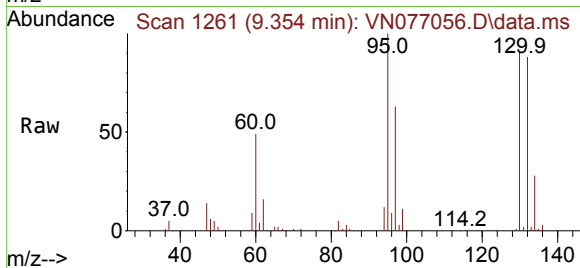
Tgt Ion: 83 Resp: 4764

Ion Ratio Lower Upper

83 100

55 0.0 63.8 95.8#

98 189.7 37.1 55.7#



#42

1,2-Dichloroethane

Concen: 0.227 ug/l

RT: 8.684 min Scan# 1147

Delta R.T. 0.012 min

Lab File: VN077056.D

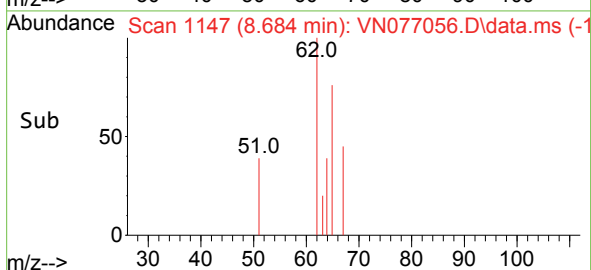
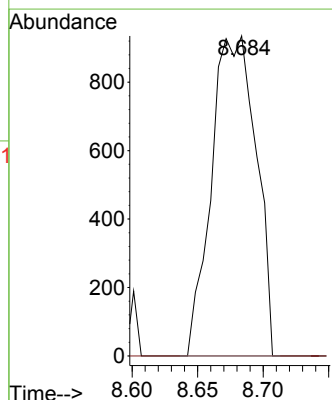
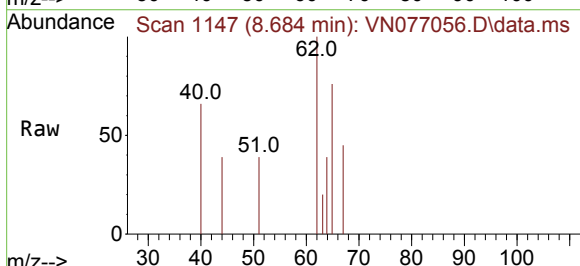
Acq: 18 Mar 2023 00:39

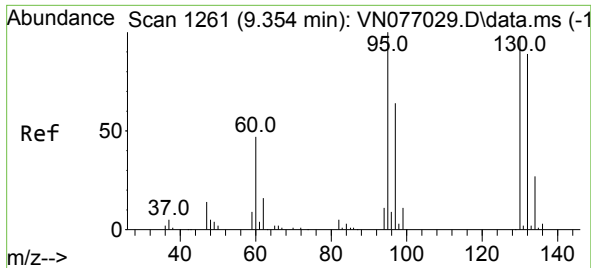
Tgt Ion: 62 Resp: 2214

Ion Ratio Lower Upper

62 100

98 0.0 0.0 17.4

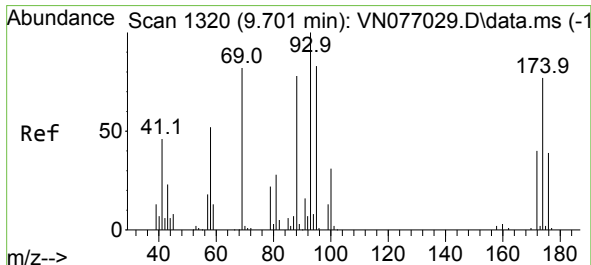
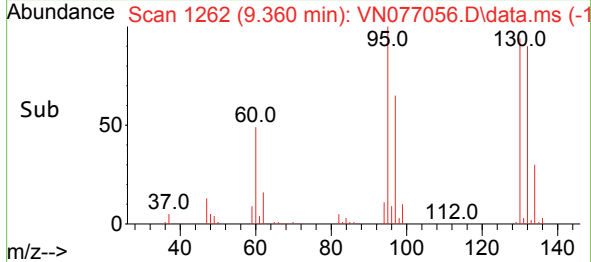
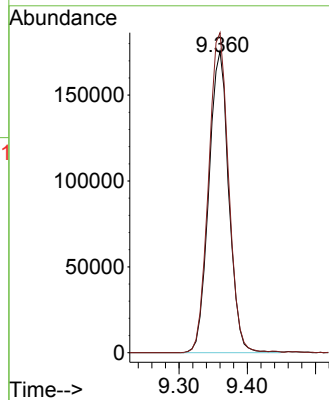
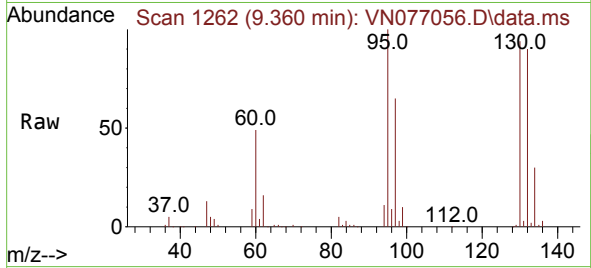




#44
Trichloroethene
Concen: 57.797 ug/l
RT: 9.360 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN077056.D
Acq: 18 Mar 2023 00:39

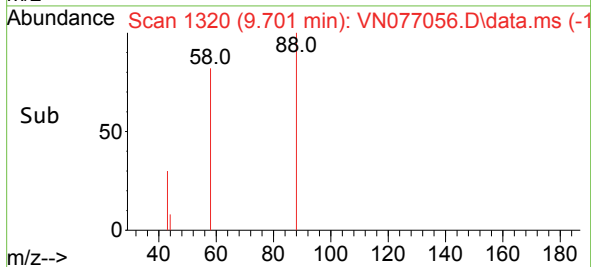
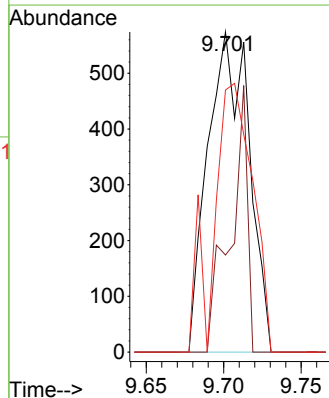
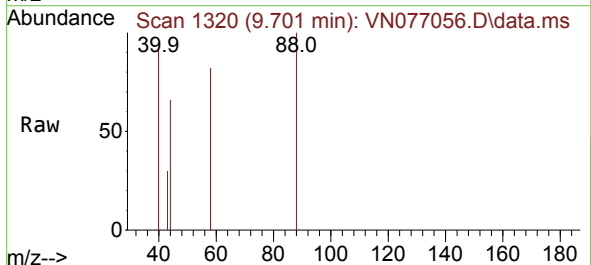
Instrument :
MSVOA_N
ClientSampleId :
RE114D2-20230314

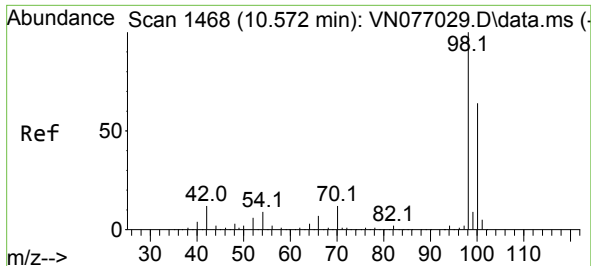
Tgt Ion:130 Resp: 357667
Ion Ratio Lower Upper
130 100
95 106.1 0.0 204.4



#49
1,4-Dioxane
Concen: 8.760 ug/l
RT: 9.701 min Scan# 1320
Delta R.T. 0.000 min
Lab File: VN077056.D
Acq: 18 Mar 2023 00:39

Tgt Ion: 88 Resp: 1062
Ion Ratio Lower Upper
88 100
43 34.6 22.2 33.2#
58 79.8 60.8 91.2

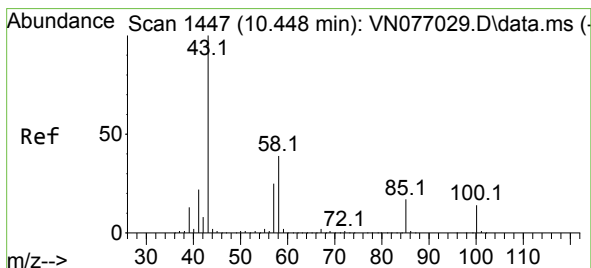
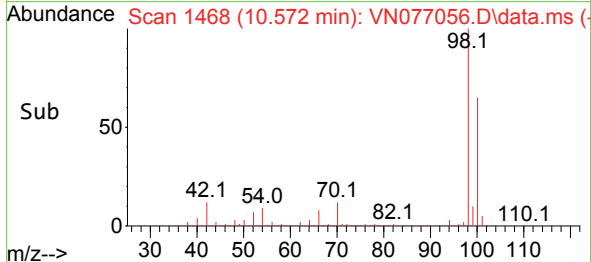
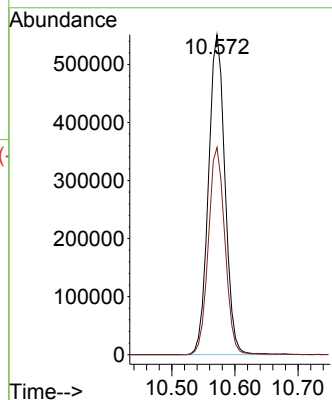
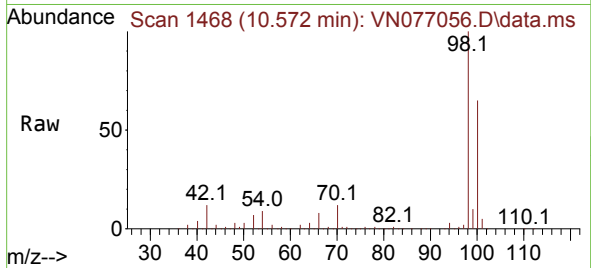




#50
Toluene-d8
Concen: 49.319 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VN077056.D
Acq: 18 Mar 2023 00:39

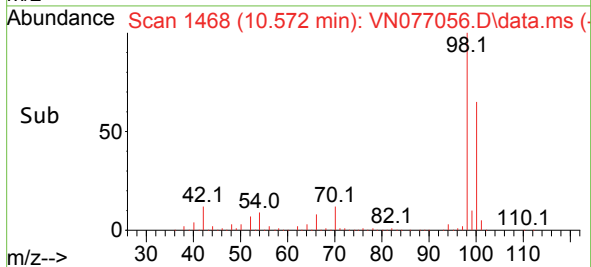
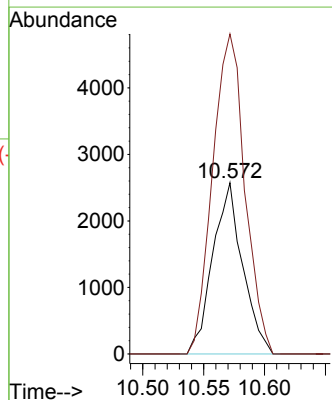
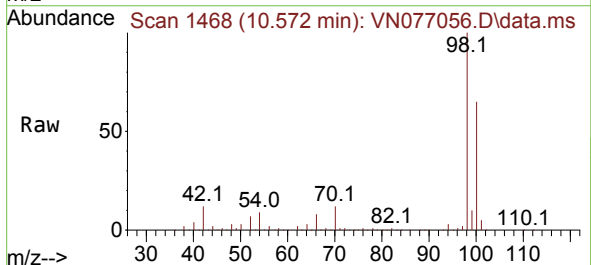
Instrument :
MSVOA_N
ClientSampleId :
RE114D2-20230314

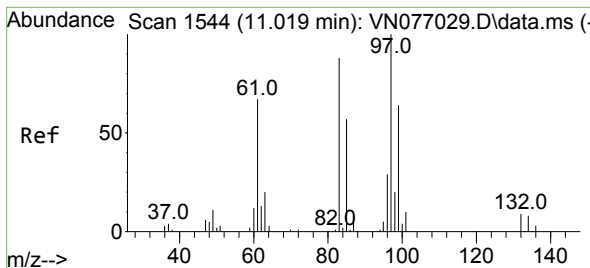
Tgt Ion: 98 Resp: 1001996
Ion Ratio Lower Upper
98 100
100 65.1 51.6 77.4



#51
4-Methyl-2-Pentanone
Concen: 0.474 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. 0.124 min
Lab File: VN077056.D
Acq: 18 Mar 2023 00:39

Tgt Ion: 43 Resp: 4387
Ion Ratio Lower Upper
43 100
58 202.2 31.1 46.7#





#55

1,1,2-Trichloroethane

Concen: 0.205 ug/l

RT: 11.019 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN077056.D

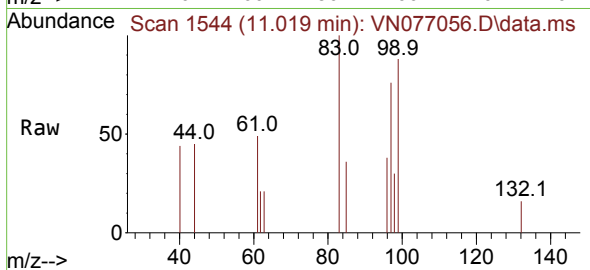
Acq: 18 Mar 2023 00:39

Instrument :

MSVOA_N

ClientSampleId :

RE114D2-20230314



Tgt Ion: 97 Resp: 1299

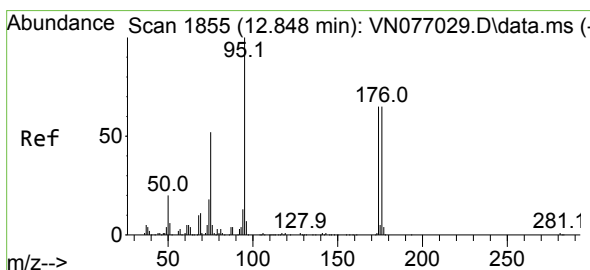
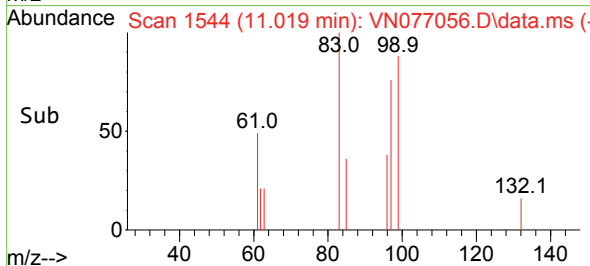
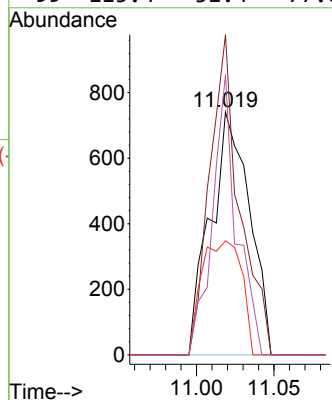
Ion Ratio Lower Upper

97 100

83 131.8 70.5 105.7#

85 47.0 45.4 68.2

99 115.4 51.4 77.0#



#62

4-Bromofluorobenzene

Concen: 43.682 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. 0.006 min

Lab File: VN077056.D

Acq: 18 Mar 2023 00:39

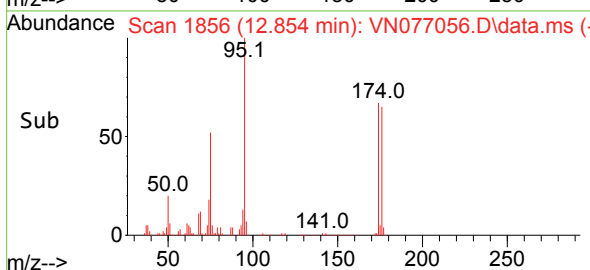
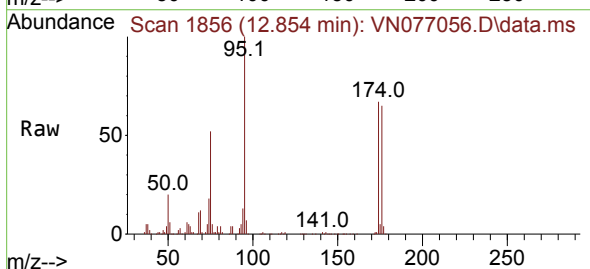
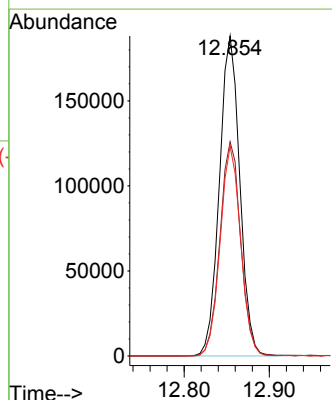
Tgt Ion: 95 Resp: 313600

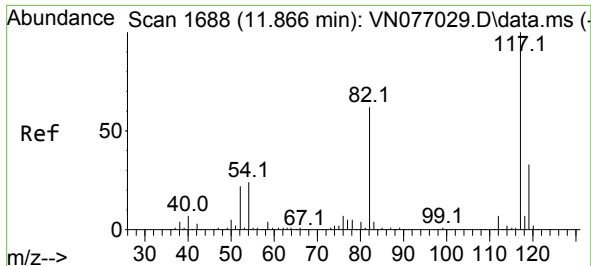
Ion Ratio Lower Upper

95 100

174 68.1 0.0 136.6

176 65.7 0.0 130.0

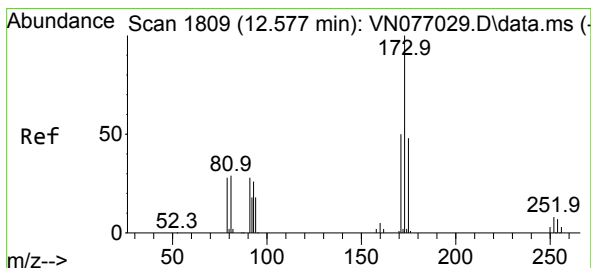
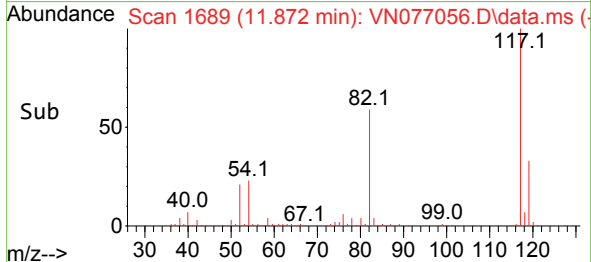
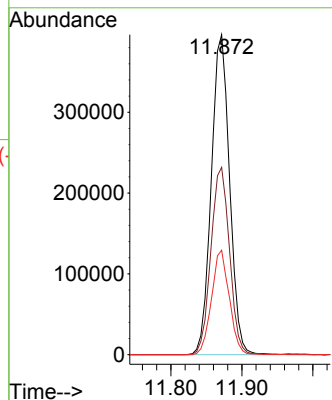
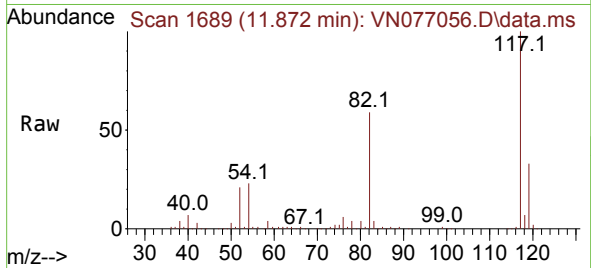




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.872 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN077056.D
Acq: 18 Mar 2023 00:39

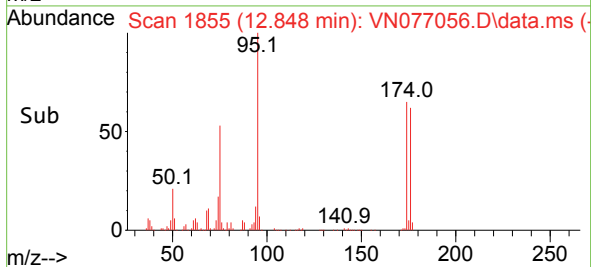
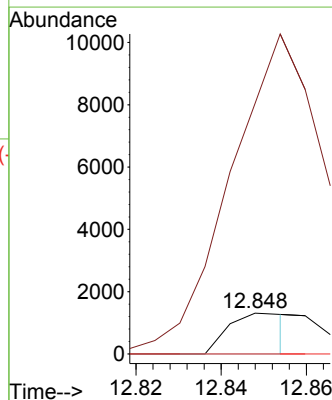
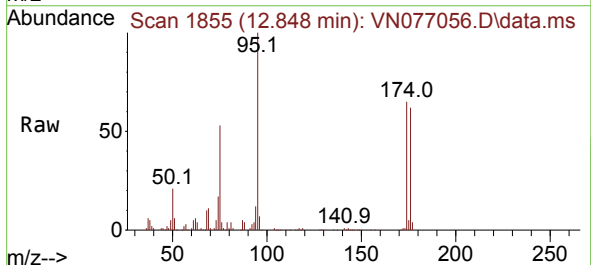
Instrument :
MSVOA_N
ClientSampleId :
RE114D2-20230314

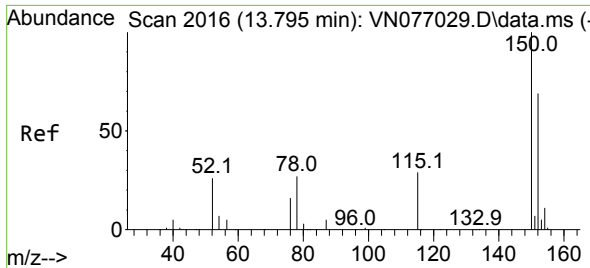
Tgt Ion:117 Resp: 707939
Ion Ratio Lower Upper
117 100
82 58.5 49.4 74.0
119 32.7 26.5 39.7



#71
Bromoform
Concen: 0.307 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. 0.271 min
Lab File: VN077056.D
Acq: 18 Mar 2023 00:39

Tgt Ion:173 Resp: 1254
Ion Ratio Lower Upper
173 100
175 0.0 24.5 73.5#
254 0.0 0.1 0.1#

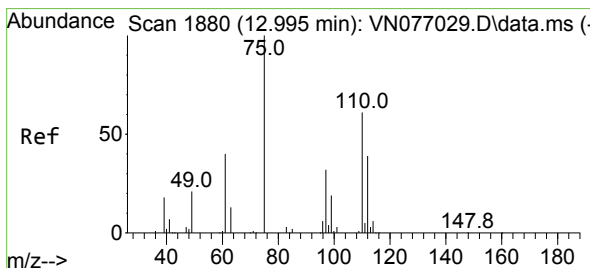
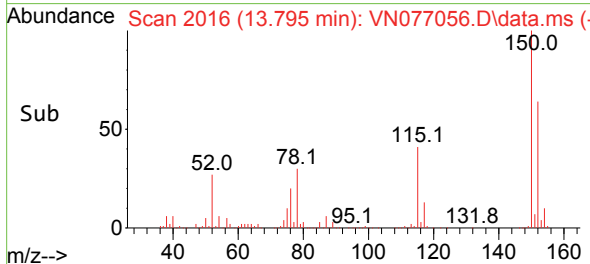
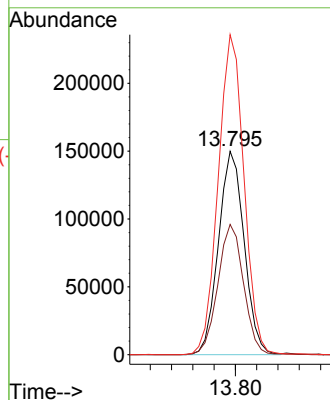
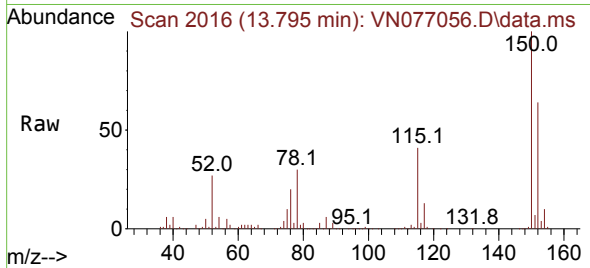




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN077056.D
Acq: 18 Mar 2023 00:39

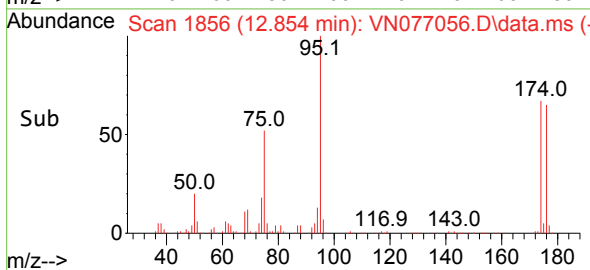
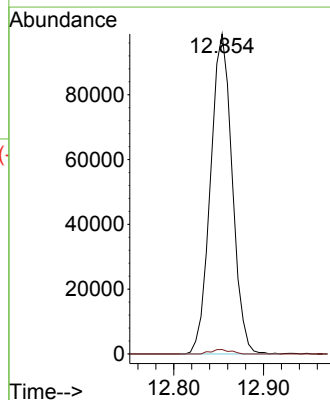
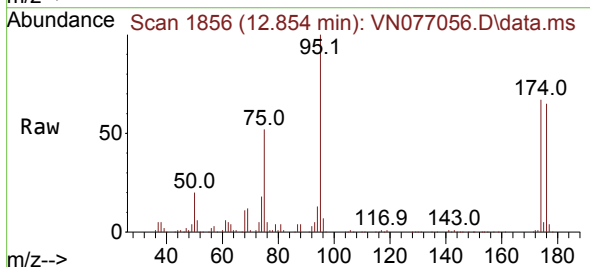
Instrument :
MSVOA_N
ClientSampleId :
RE114D2-20230314

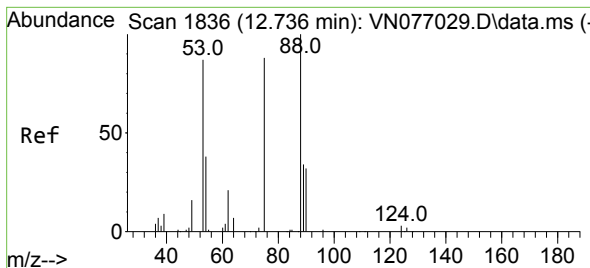
Tgt Ion:152 Resp: 251406
Ion Ratio Lower Upper
152 100
115 64.0 31.9 95.7
150 158.0 0.0 348.0



#76
1,2,3-Trichloropropane
Concen: 25.509 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077056.D
Acq: 18 Mar 2023 00:39

Tgt Ion: 75 Resp: 165887
Ion Ratio Lower Upper
75 100
77 1.3 107.3 322.0#

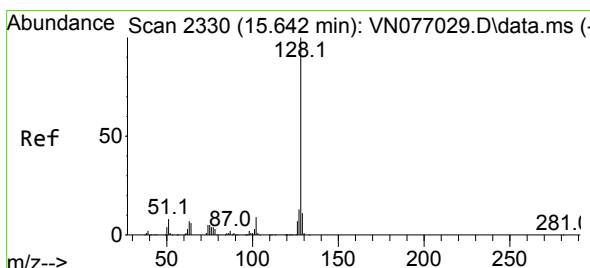
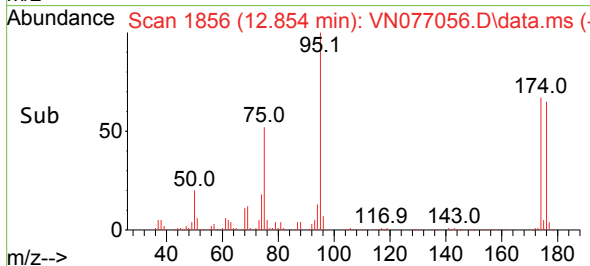
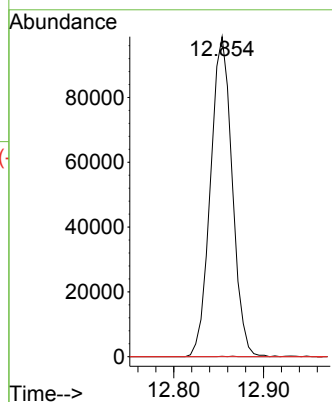
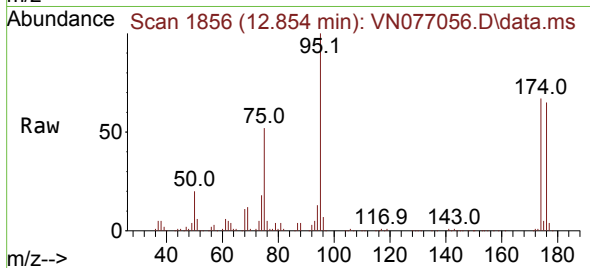




#81
trans-1,4-Dichloro-2-butene
Concen: 70.216 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN077056.D
Acq: 18 Mar 2023 00:39

Instrument :
MSVOA_N
ClientSampleId :
RE114D2-20230314

Tgt Ion: 75 Resp: 165887
Ion Ratio Lower Upper
75 100
53 0.0 80.8 121.2#
89 0.0 34.2 51.4#



#95
Naphthalene
Concen: 1.925 ug/l
RT: 15.648 min Scan# 2331
Delta R.T. 0.006 min
Lab File: VN077056.D
Acq: 18 Mar 2023 00:39

Tgt Ion:128 Resp: 232
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.6 13.0#

