

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032023\
 Data File : VN077063.D
 Acq On : 20 Mar 2023 13:04
 Operator : JC\MD
 Sample : 01904-05DL 2X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

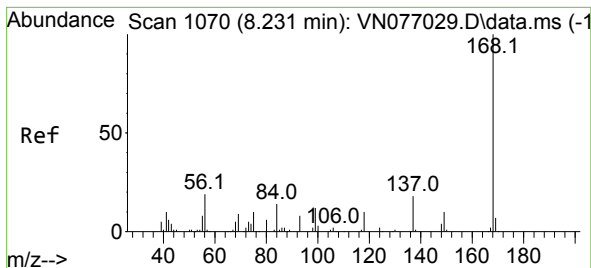
Instrument :
 MSVOA_N
 ClientSampleId :
 RE117D1-20230313DL

Quant Time: Mar 21 05:35:02 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031723W.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 20 08:50:30 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.232	168	397991	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.103	114	722619	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.867	117	640090	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.797	152	254116	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.585	65	297149	46.742	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.480%		
35) Dibromofluoromethane	8.173	113	230869	45.621	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.240%		
50) Toluene-d8	10.567	98	870645	48.163	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.320%		
62) 4-Bromofluorobenzene	12.850	95	289801	45.368	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	90.740%		
Target Compounds					Qvalue	
5) Bromomethane	2.986	94	749	0.256	ug/l	83
9) 1,1,2-Trichlorotrifluo...	4.391	101	2275	0.431	ug/l #	84
10) Methyl Iodide	4.615	142	1369	0.230	ug/l #	86
12) 1,1-Dichloroethene	4.356	96	2566	0.531	ug/l	94
13) Acrolein	4.197	56	589	0.514	ug/l #	44
15) Acrylonitrile	5.750	53	977	0.314	ug/l #	22
16) Acetone	4.456	43	2485	0.877	ug/l #	43
17) Carbon Disulfide	4.721	76	2872	0.204	ug/l #	77
20) Methylene Chloride	5.285	84	1881	0.306	ug/l #	80
25) 2-Butanone	7.515	43	913	0.220	ug/l #	49
27) cis-1,2-Dichloroethene	7.491	96	2975	0.496	ug/l #	1
31) Cyclohexane	8.226	56	9958	0.957	ug/l #	1
36) 1,1-Dichloropropene	8.232	75	36637	4.635	ug/l #	51
38) Carbon Tetrachloride	8.373	117	4207	0.546	ug/l	90
39) Methylcyclohexane	9.362	83	3218	0.348	ug/l #	1
44) Trichloroethene	9.356	130	228608	41.518	ug/l	96
49) 1,4-Dioxane	9.714	88	56	0.519	ug/l #	21
55) 1,1,2-Trichloroethane	11.020	97	1362	0.241	ug/l #	77
59) 2-Hexanone	11.203	43	2650	0.444	ug/l	91
76) 1,2,3-Trichloropropane	12.850	75	153078	23.289	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.850	75	153078	64.104	ug/l #	10
93) 1,2,4-Trichlorobenzene	15.396	180	2083	0.479	ug/l	96
95) Naphthalene	15.638	128	8539	2.398	ug/l	98
96) 1,2,3-Trichlorobenzene	15.838	180	2247	0.515	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.232 min Scan# 11

Delta R.T. 0.001 min

Lab File: VN077063.D

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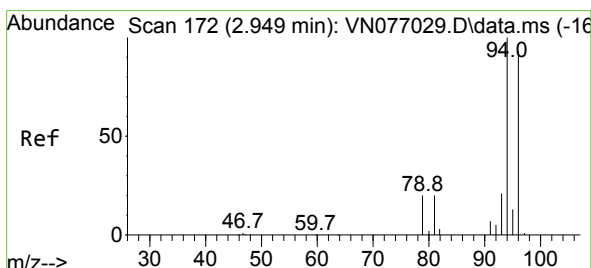
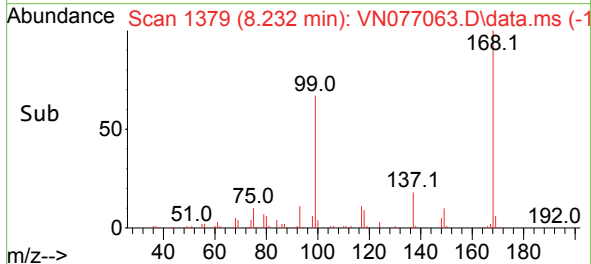
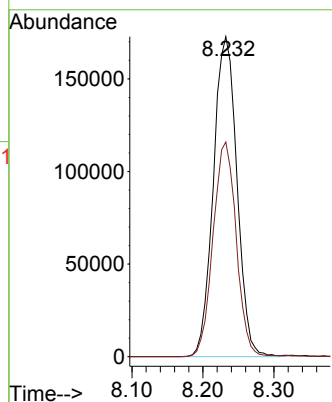
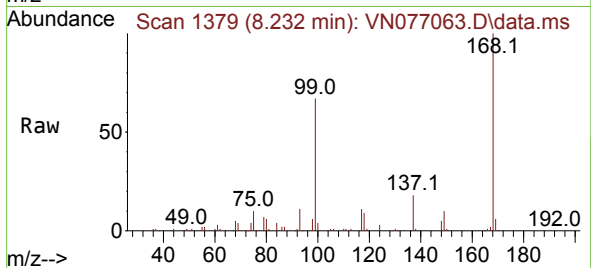
RE117D1-20230313DL

Tgt Ion:168 Resp: 397991

Ion Ratio Lower Upper

168 100

99 67.1 53.9 80.9



#5

Bromomethane

Concen: 0.256 ug/l

RT: 2.986 min Scan# 487

Delta R.T. 0.037 min

Lab File: VN077063.D

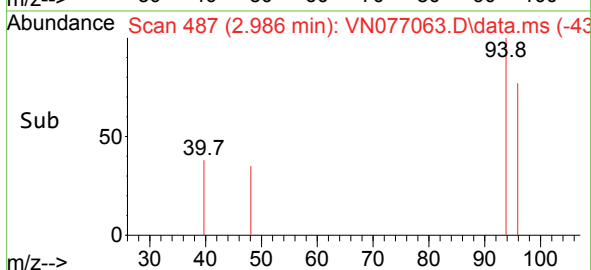
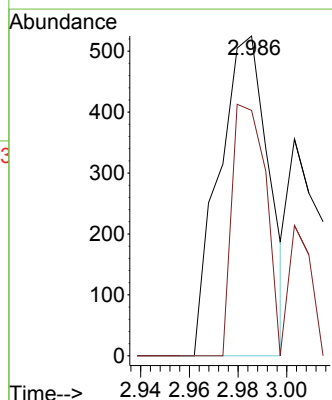
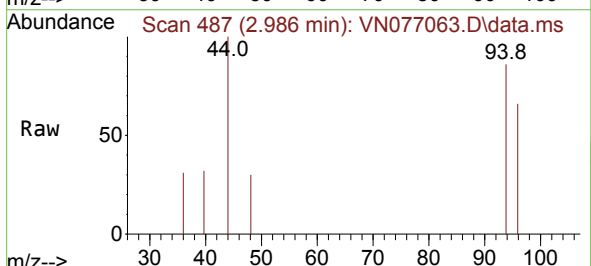
Acq: 20 Mar 2023 13:04

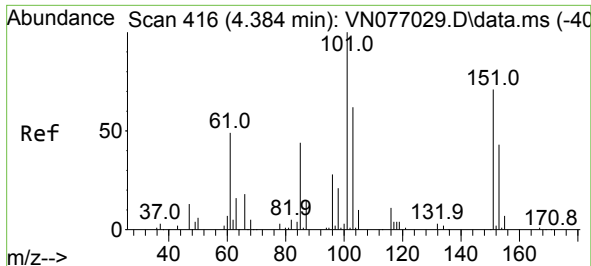
Tgt Ion: 94 Resp: 749

Ion Ratio Lower Upper

94 100

96 76.8 74.1 111.1

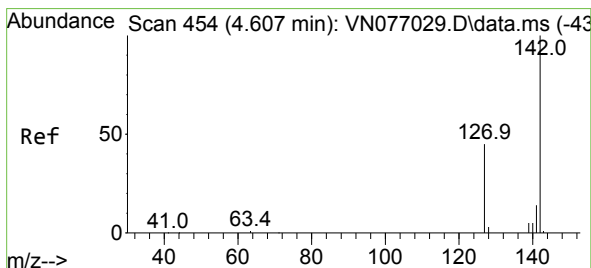
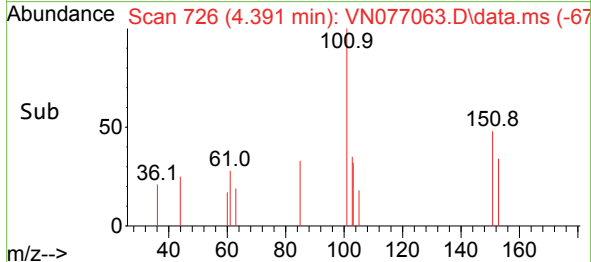
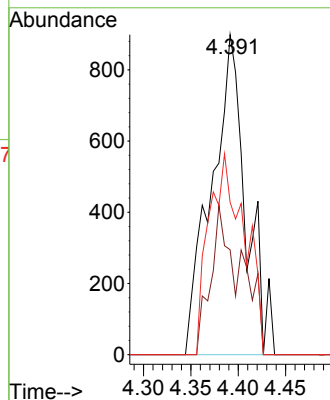
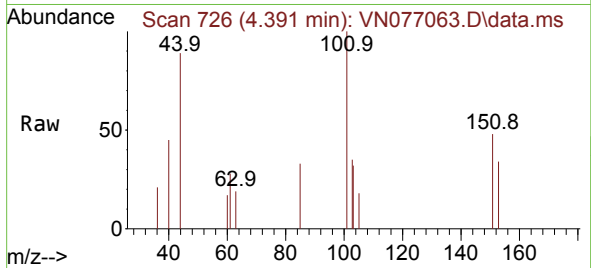




#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.431 ug/l
RT: 4.391 min Scan# 71
Delta R.T. 0.007 min
Lab File: VN077063.D
Acq: 20 Mar 2023 13:04

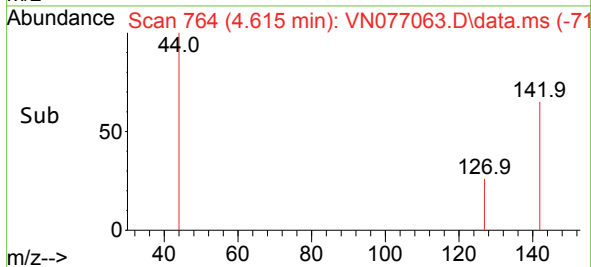
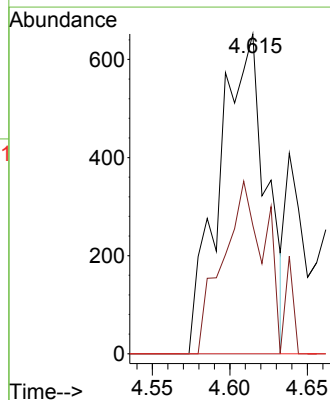
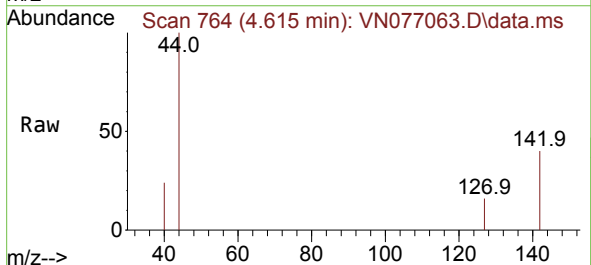
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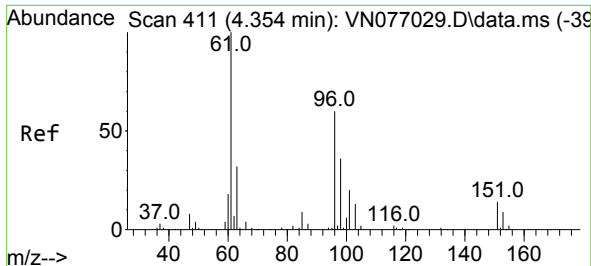
Tgt Ion:101 Resp: 2275
Ion Ratio Lower Upper
101 100
85 26.9 36.6 55.0#
151 64.6 56.9 85.3



#10
Methyl Iodide
Concen: 0.230 ug/l
RT: 4.615 min Scan# 764
Delta R.T. 0.008 min
Lab File: VN077063.D
Acq: 20 Mar 2023 13:04

Tgt Ion:142 Resp: 1369
Ion Ratio Lower Upper
142 100
127 40.2 36.1 54.1
141 0.0 10.8 16.2#

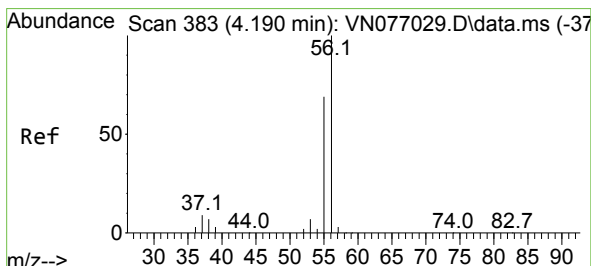
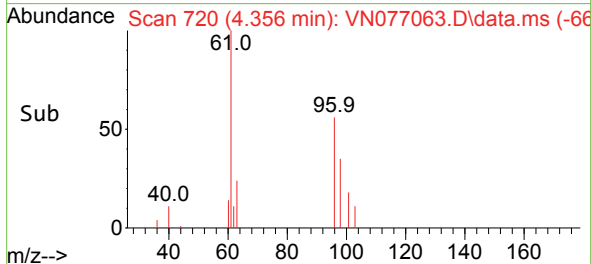
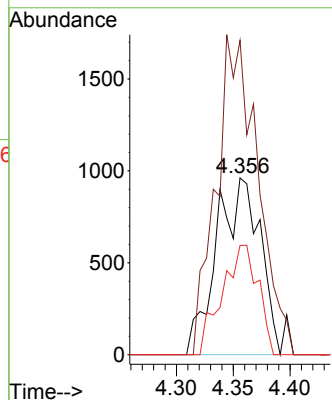
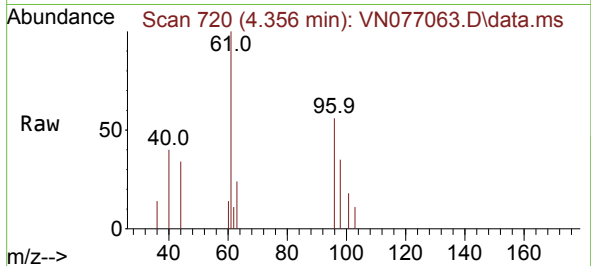




#12
1,1-Dichloroethene
Concen: 0.531 ug/l
RT: 4.356 min Scan# 71
Delta R.T. 0.002 min
Lab File: VN077063.D
Acq: 20 Mar 2023 13:04

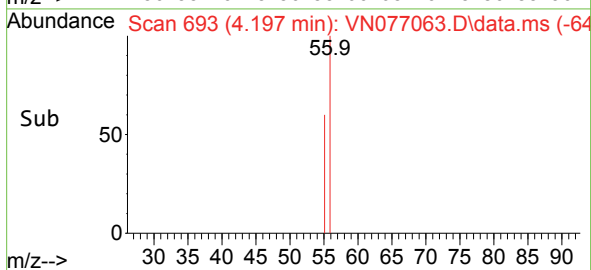
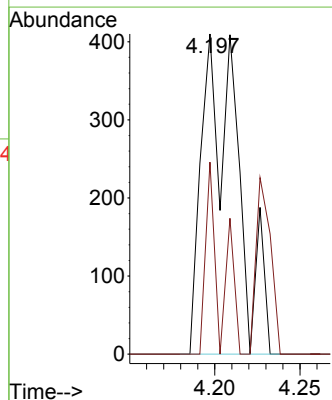
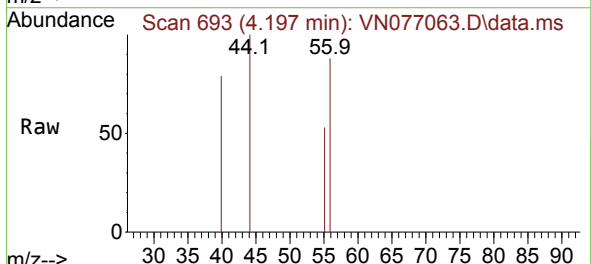
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MSVOA_N
ClientSampleId :
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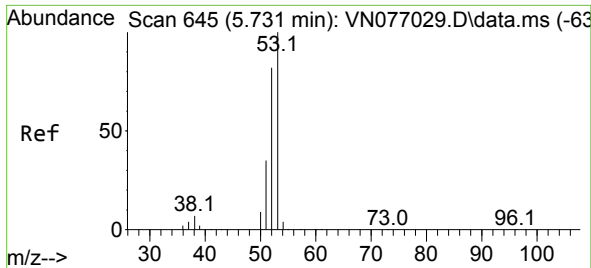
Tgt Ion: 96 Resp: 2566
Ion Ratio Lower Upper
96 100
61 177.8 133.8 200.8
98 61.9 48.6 72.8



#13
Acrolein
Concen: 0.514 ug/l
RT: 4.197 min Scan# 693
Delta R.T. 0.007 min
Lab File: VN077063.D
Acq: 20 Mar 2023 13:04

Tgt Ion: 56 Resp: 589
Ion Ratio Lower Upper
56 100
55 25.1 57.0 85.6#

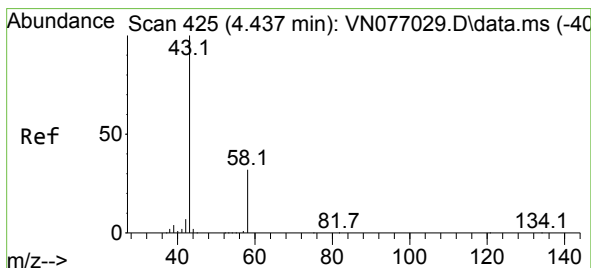
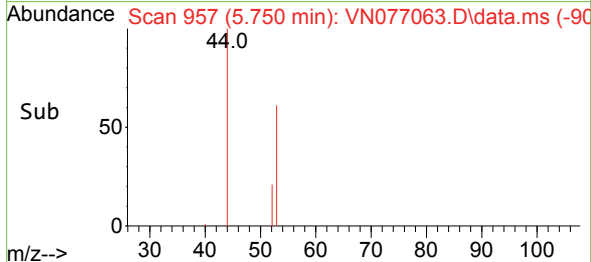
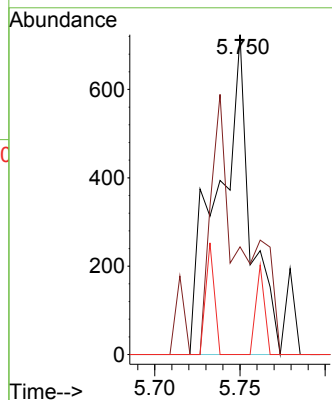
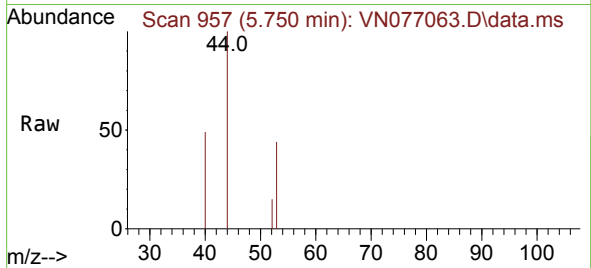




#15
Acrylonitrile
Concen: 0.314 ug/l
RT: 5.750 min Scan# 91
Delta R.T. 0.019 min
Lab File: VN077063.D
Acq: 20 Mar 2023 13:04

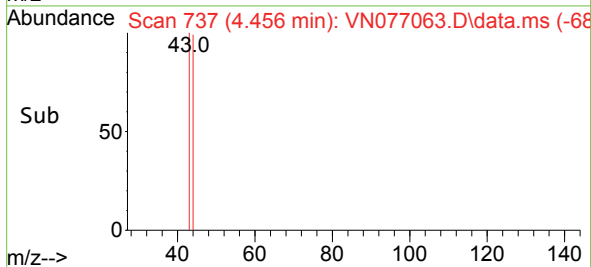
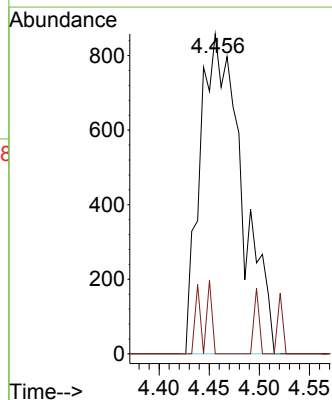
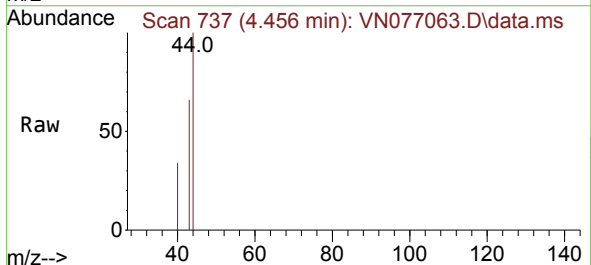
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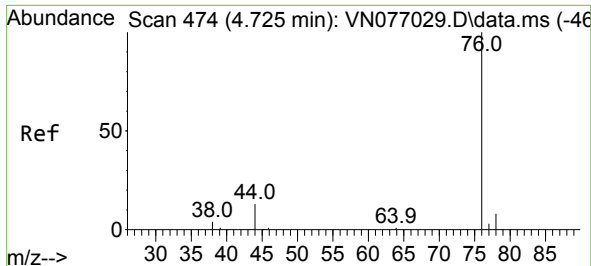
Tgt Ion: 53 Resp: 977
Ion Ratio Lower Upper
53 100
52 0.0 64.6 97.0#
51 7.4 28.3 42.5#



#16
Acetone
Concen: 0.877 ug/l
RT: 4.456 min Scan# 737
Delta R.T. 0.019 min
Lab File: VN077063.D
Acq: 20 Mar 2023 13:04

Tgt Ion: 43 Resp: 2485
Ion Ratio Lower Upper
43 100
58 0.0 25.4 38.0#

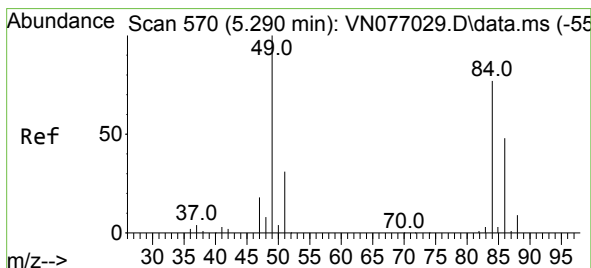
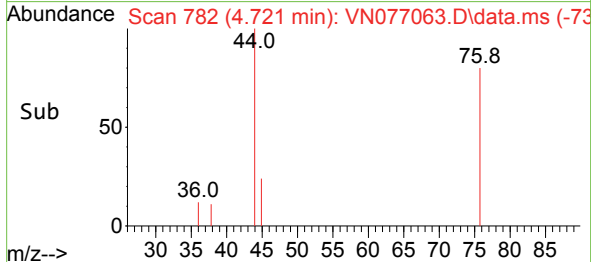
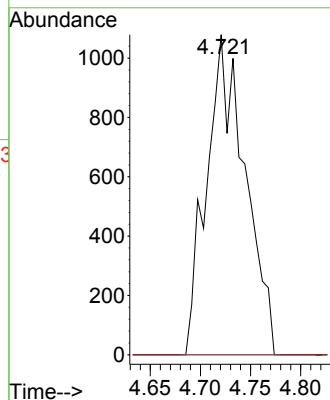
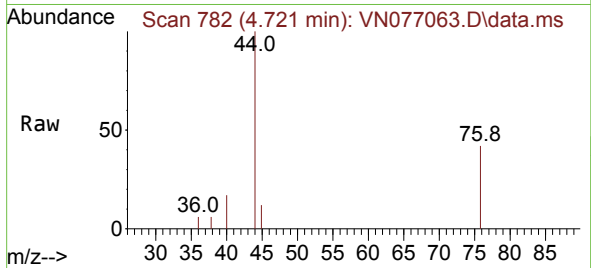




#17
Carbon Disulfide
Concen: 0.204 ug/l
RT: 4.721 min Scan# 71
Delta R.T. -0.004 min
Lab File: VN077063.D
Acq: 20 Mar 2023 13:04

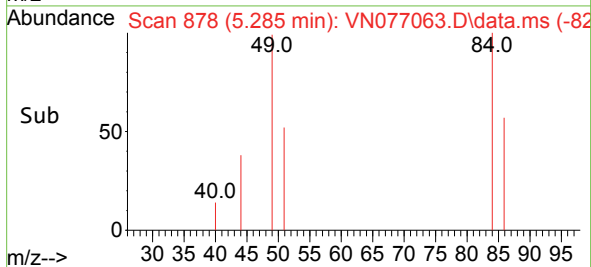
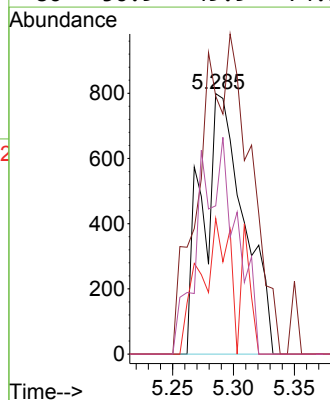
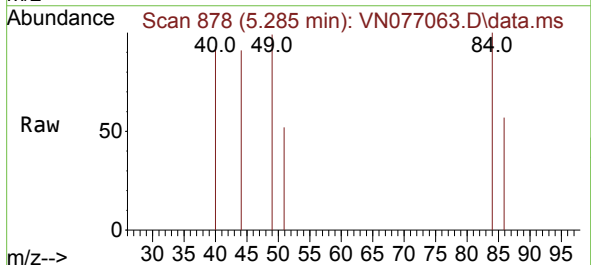
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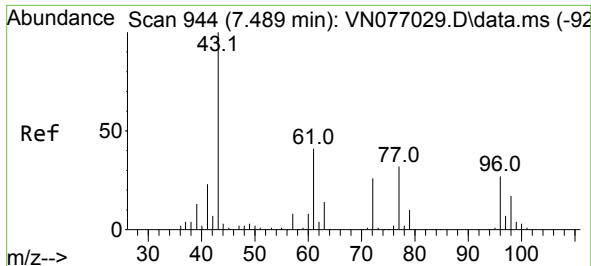
Tgt Ion: 76 Resp: 2872
Ion Ratio Lower Upper
76 100
78 0.0 6.6 10.0#



#20
Methylene Chloride
Concen: 0.306 ug/l
RT: 5.285 min Scan# 878
Delta R.T. -0.005 min
Lab File: VN077063.D
Acq: 20 Mar 2023 13:04

Tgt Ion: 84 Resp: 1881
Ion Ratio Lower Upper
84 100
49 99.0 103.8 155.6#
51 52.1 32.3 48.5#
86 56.9 49.9 74.9

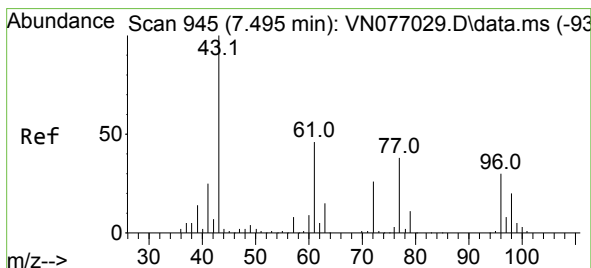
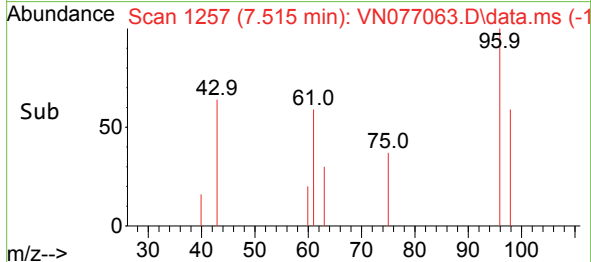
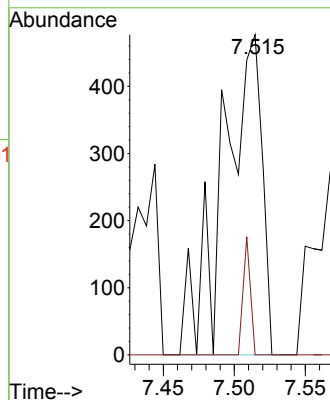
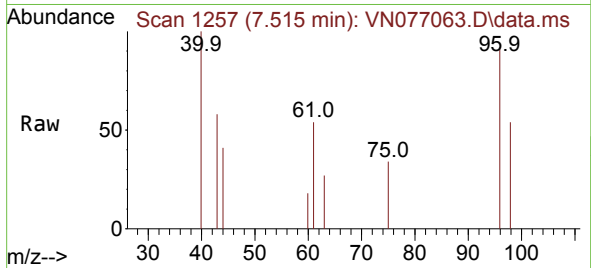




#25
2-Butanone
Concen: 0.220 ug/l
RT: 7.515 min Scan# 11
Delta R.T. 0.026 min
Lab File: VN077063.D
Acq: 20 Mar 2023 13:04

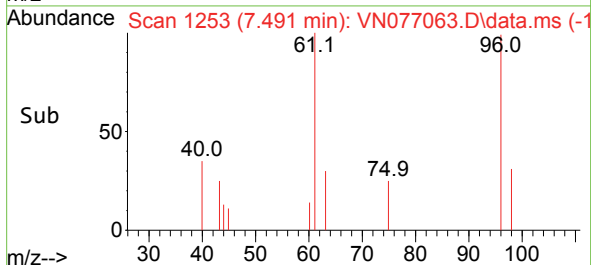
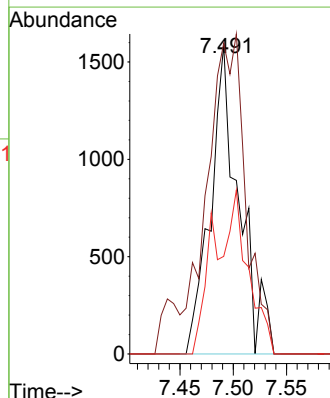
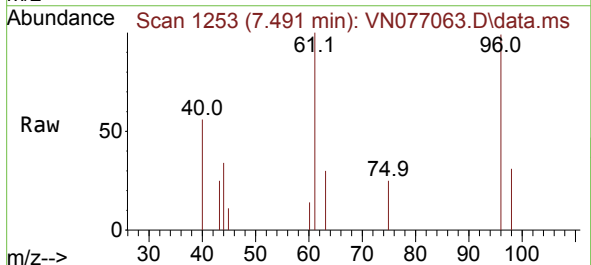
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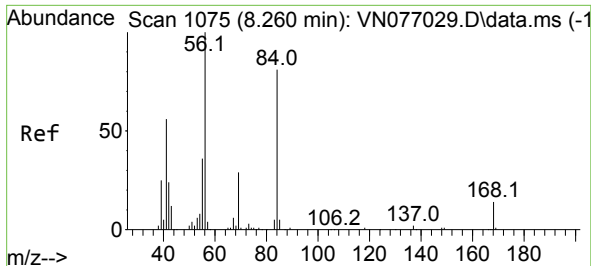
Tgt Ion: 43 Resp: 913
Ion Ratio Lower Upper
43 100
72 0.0 20.7 31.1#



#27
cis-1,2-Dichloroethene
Concen: 0.496 ug/l
RT: 7.491 min Scan# 1253
Delta R.T. -0.004 min
Lab File: VN077063.D
Acq: 20 Mar 2023 13:04

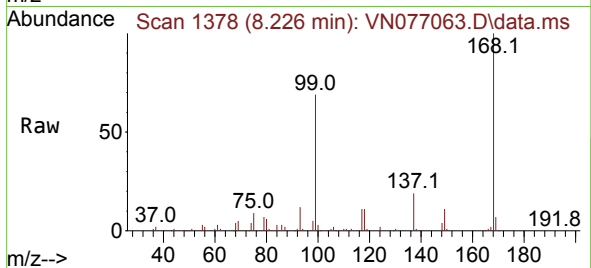
Tgt Ion: 96 Resp: 2975
Ion Ratio Lower Upper
96 100
61 0.0 0.0 315.4
98 20.4 0.0 128.6



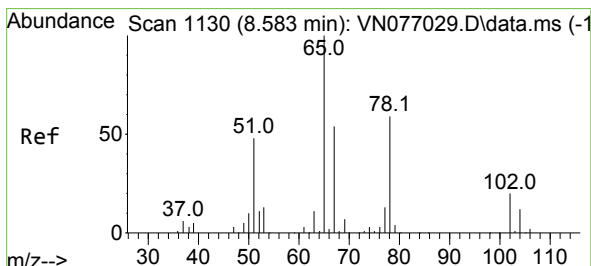
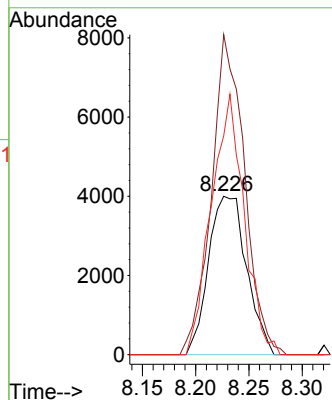
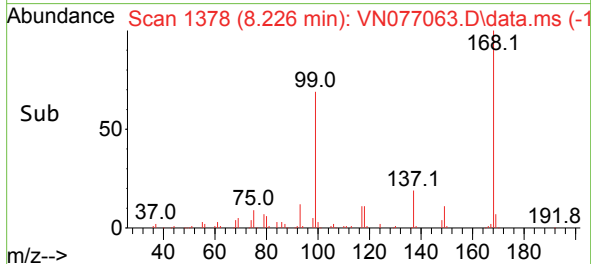


#31
Cyclohexane
Concen: 0.957 ug/l
RT: 8.226 min Scan# 11
Delta R.T. -0.034 min
Lab File: VN077063.D
Acq: 20 Mar 2023 13:04

Instrument :
MSVOA_N
ClientSampleId :
RE117D1-20230313DL

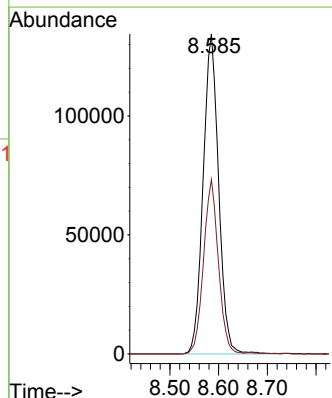
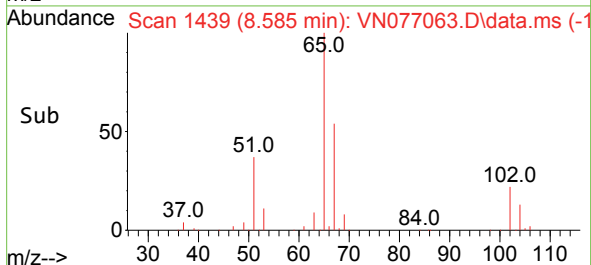
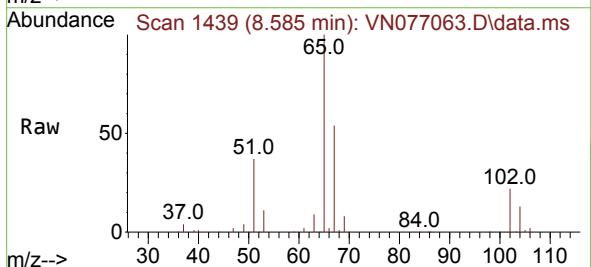


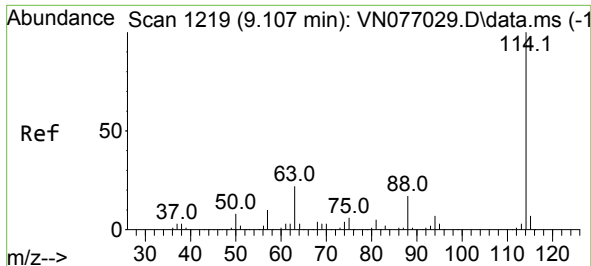
Tgt Ion: 56 Resp: 9958
Ion Ratio Lower Upper
56 100
69 202.0 22.8 34.2#
84 138.2 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 46.742 ug/l
RT: 8.585 min Scan# 1439
Delta R.T. 0.002 min
Lab File: VN077063.D
Acq: 20 Mar 2023 13:04

Tgt Ion: 65 Resp: 297149
Ion Ratio Lower Upper
65 100
67 52.3 0.0 105.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.103 min Scan# 11

Delta R.T. -0.004 min

Lab File: VN077063.D

Acq: 20 Mar 2023 13:04

Instrument :

MSVOA_N

ClientSampleId :

RE117D1-20230313DL

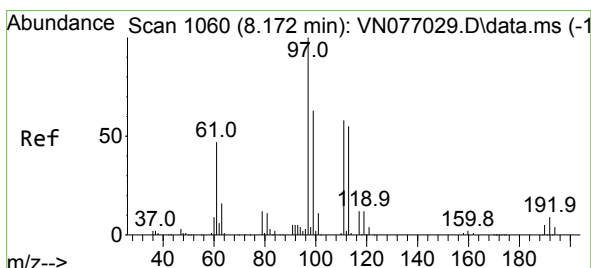
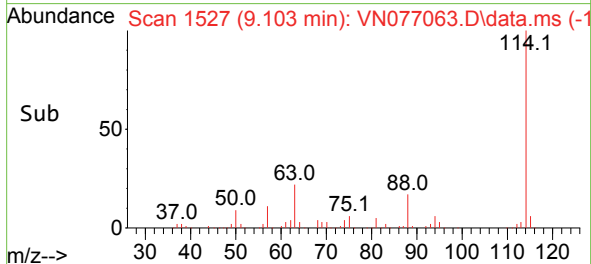
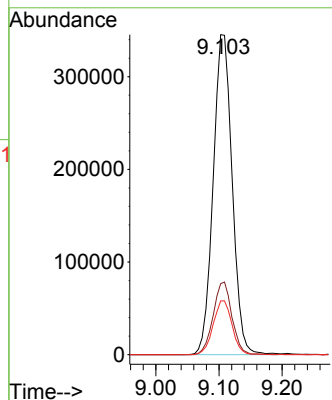
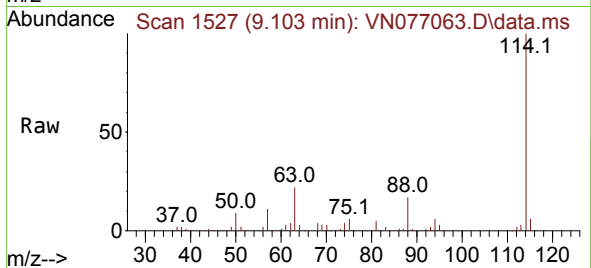
Tgt Ion:114 Resp: 722619

Ion Ratio Lower Upper

114 100

63 22.2 0.0 44.6

88 16.8 0.0 33.8



#35

Dibromofluoromethane

Concen: 45.621 ug/l

RT: 8.173 min Scan# 1369

Delta R.T. 0.002 min

Lab File: VN077063.D

Acq: 20 Mar 2023 13:04

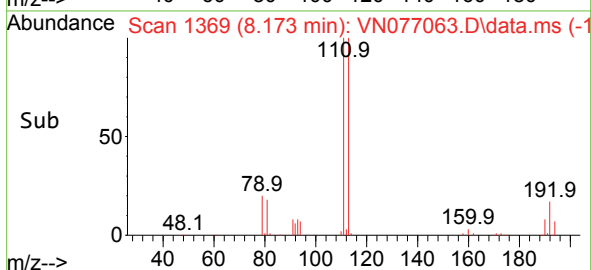
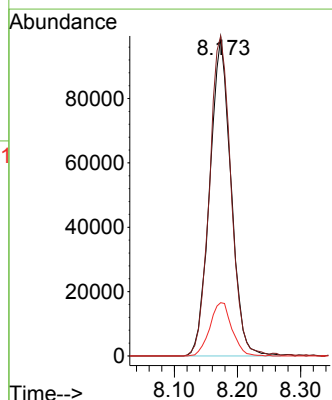
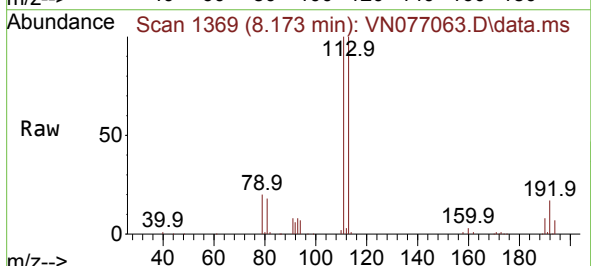
Tgt Ion:113 Resp: 230869

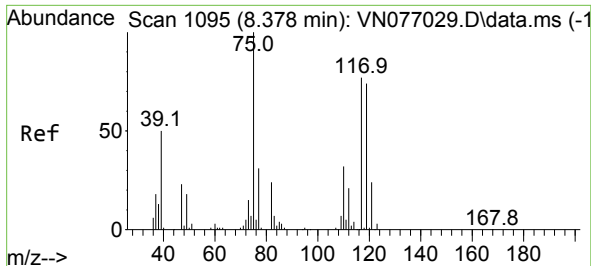
Ion Ratio Lower Upper

113 100

111 101.9 82.2 123.2

192 17.4 13.0 19.6





#36

1,1-Dichloropropene

Concen: 4.635 ug/l

RT: 8.232 min Scan# 11

Delta R.T. -0.145 min

Lab File: VN077063.D

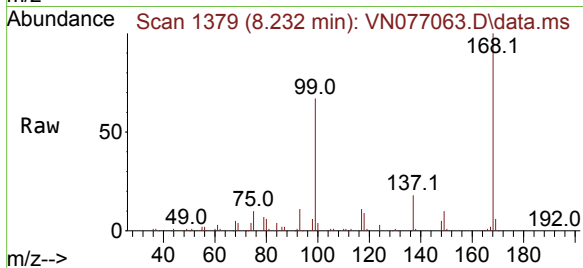
Acq: 20 Mar 2023 13:04

Instrument :

MSVOA_N

ClientSampleId :

RE117D1-20230313DL



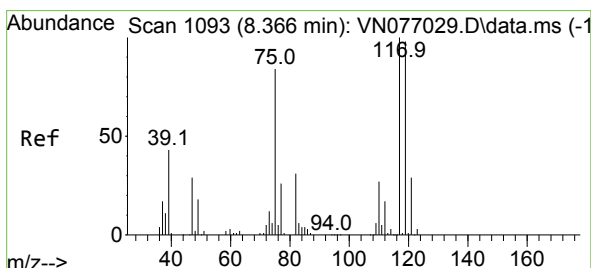
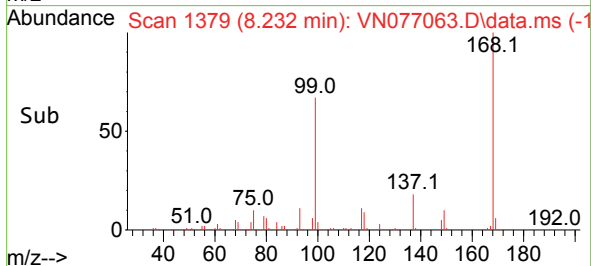
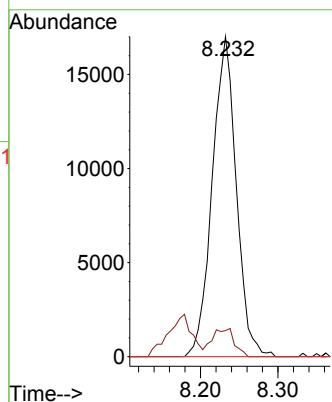
Tgt Ion: 75 Resp: 36637

Ion Ratio Lower Upper

75 100

110 8.1 15.9 47.7#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 0.546 ug/l

RT: 8.373 min Scan# 1403

Delta R.T. 0.008 min

Lab File: VN077063.D

Acq: 20 Mar 2023 13:04

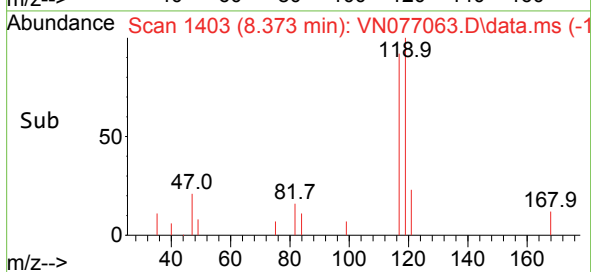
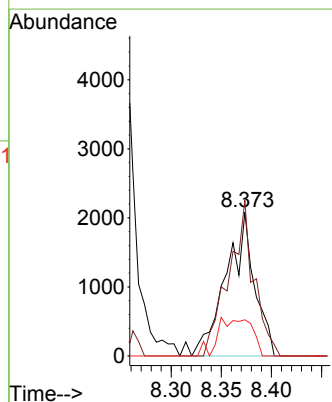
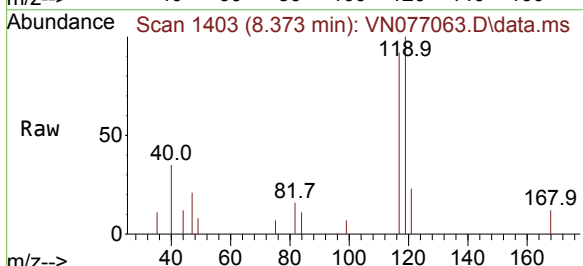
Tgt Ion: 117 Resp: 4207

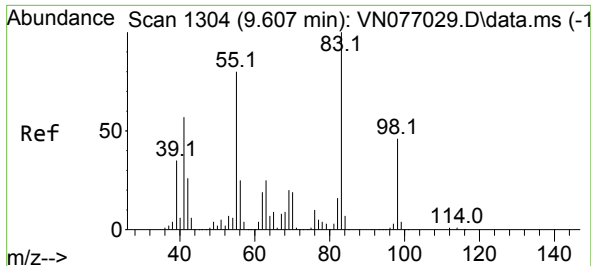
Ion Ratio Lower Upper

117 100

119 108.4 78.2 117.2

121 25.2 23.2 34.8

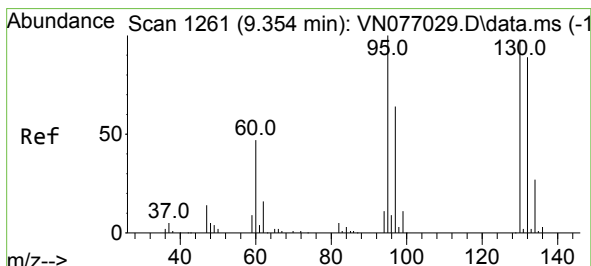
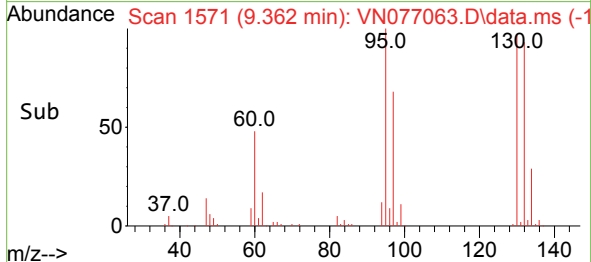
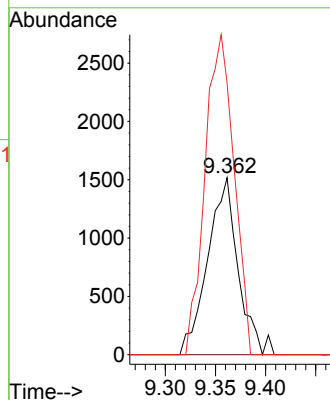
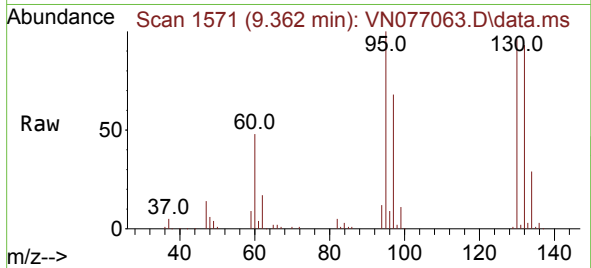




#39
Methylcyclohexane
Concen: 0.348 ug/l
RT: 9.362 min Scan# 1
Delta R.T. -0.245 min
Lab File: VN077063.D
Acq: 20 Mar 2023 13:04

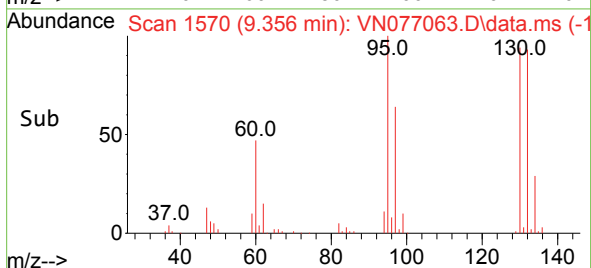
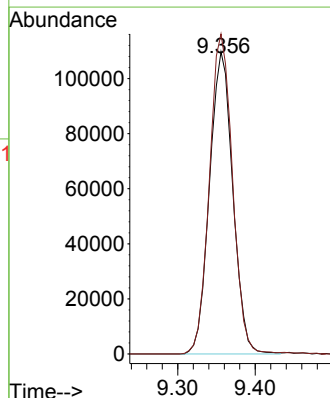
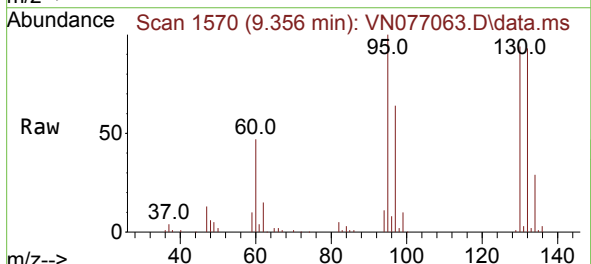
Instrument :
MSVOA_N
ClientSampleId :
RE117D1-20230313DL

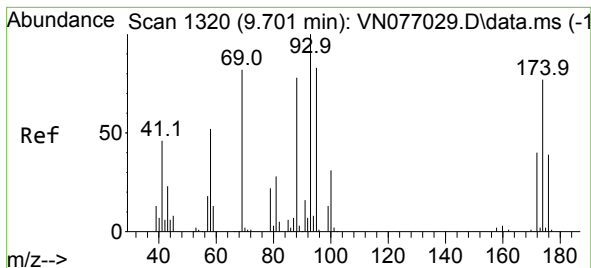
Tgt Ion: 83 Resp: 3218
Ion Ratio Lower Upper
83 100
55 0.0 63.8 95.8#
98 153.6 37.1 55.7#



#44
Trichloroethene
Concen: 41.518 ug/l
RT: 9.356 min Scan# 1570
Delta R.T. 0.002 min
Lab File: VN077063.D
Acq: 20 Mar 2023 13:04

Tgt Ion:130 Resp: 228608
Ion Ratio Lower Upper
130 100
95 105.9 0.0 204.4





#49

1,4-Dioxane

Concen: 0.519 ug/l

RT: 9.714 min Scan# 1

Delta R.T. 0.013 min

Lab File: VN077063.D

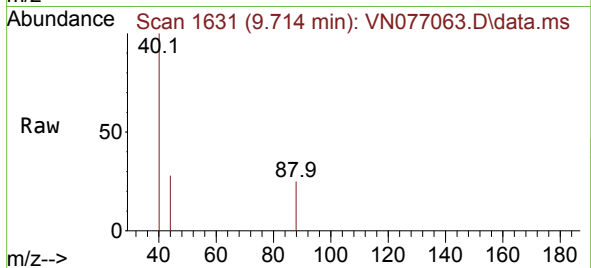
Acq: 20 Mar 2023 13:04

Instrument :

MSVOA_N

ClientSampleId :

RE117D1-20230313DL



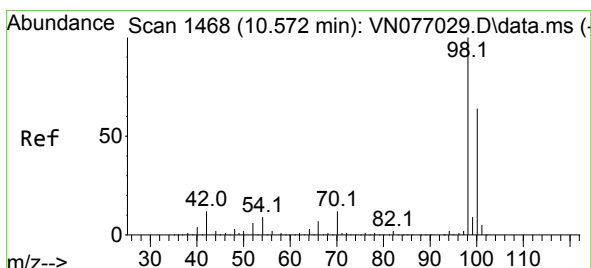
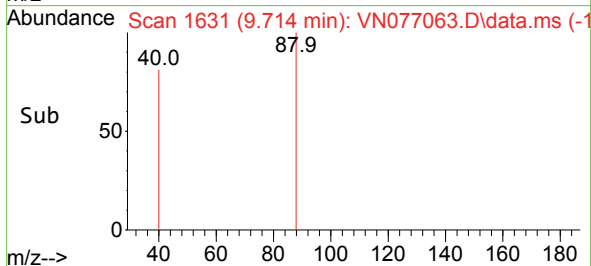
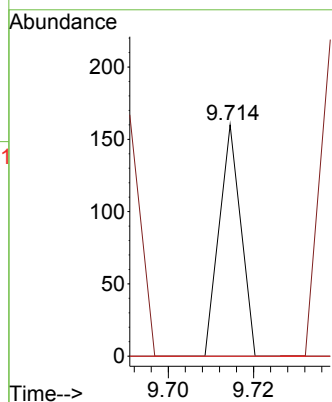
Tgt Ion: 88 Resp: 56

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.2#

58 0.0 60.8 91.2#



#50

Toluene-d8

Concen: 48.163 ug/l

RT: 10.567 min Scan# 1776

Delta R.T. -0.004 min

Lab File: VN077063.D

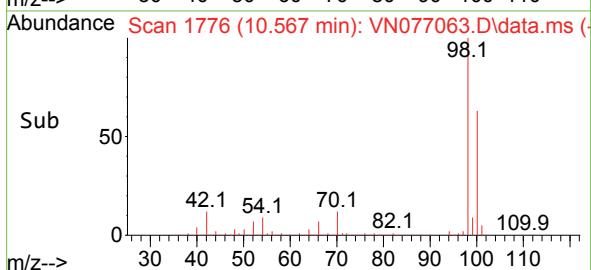
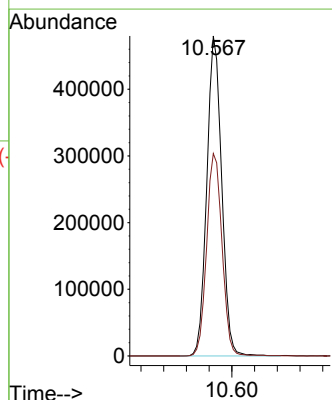
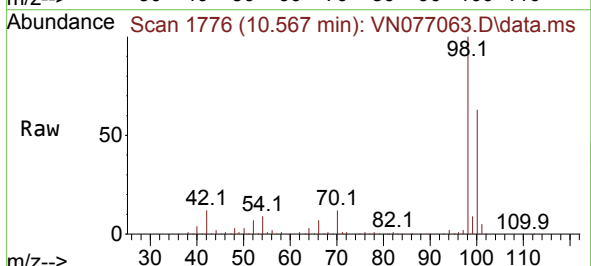
Acq: 20 Mar 2023 13:04

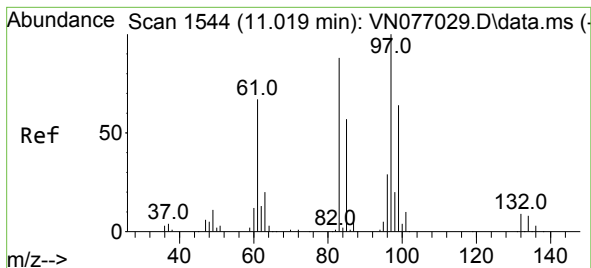
Tgt Ion: 98 Resp: 870645

Ion Ratio Lower Upper

98 100

100 65.5 51.6 77.4





#55

1,1,2-Trichloroethane

Concen: 0.241 ug/l

RT: 11.020 min Scan# 11

Delta R.T. 0.002 min

Lab File: VN077063.D

Acq: 20 Mar 2023 13:04

Instrument :

MSVOA_N

ClientSampleId :

RE117D1-20230313DL

Tgt Ion: 97 Resp: 1362

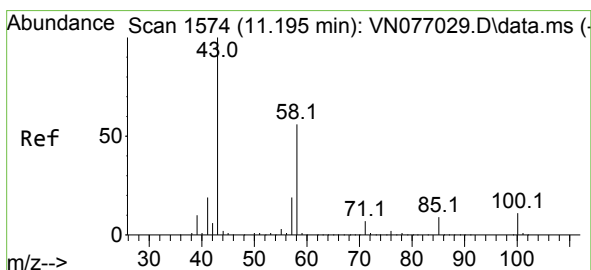
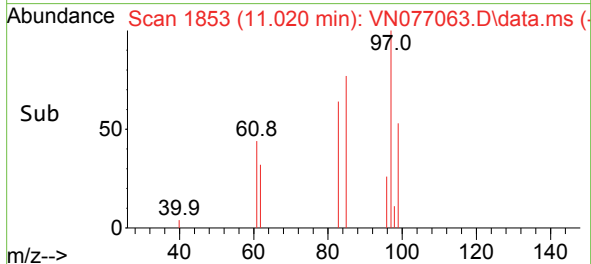
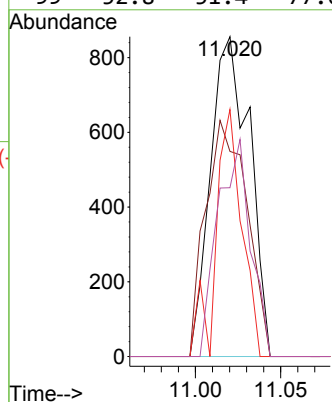
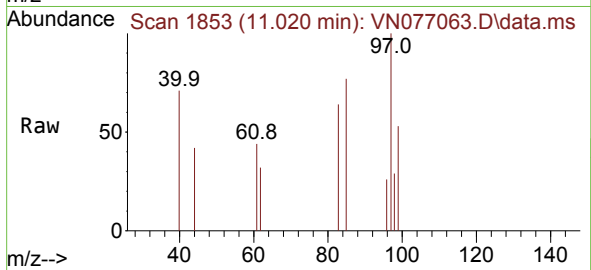
Ion Ratio Lower Upper

97 100

83 64.1 70.5 105.7#

85 77.2 45.4 68.2#

99 52.8 51.4 77.0



#59

2-Hexanone

Concen: 0.444 ug/l

RT: 11.203 min Scan# 1884

Delta R.T. 0.008 min

Lab File: VN077063.D

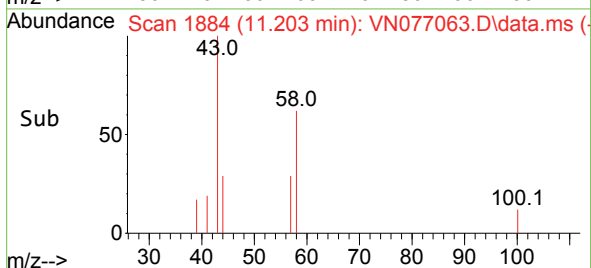
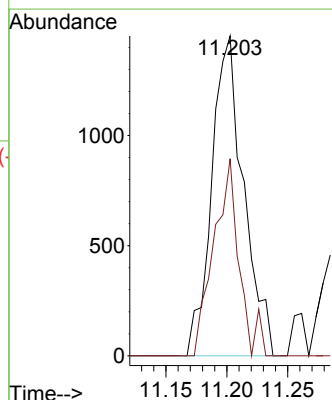
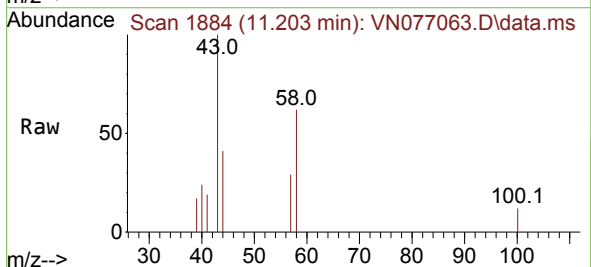
Acq: 20 Mar 2023 13:04

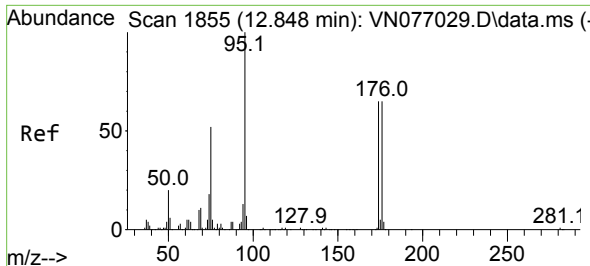
Tgt Ion: 43 Resp: 2650

Ion Ratio Lower Upper

43 100

58 48.7 27.7 83.1

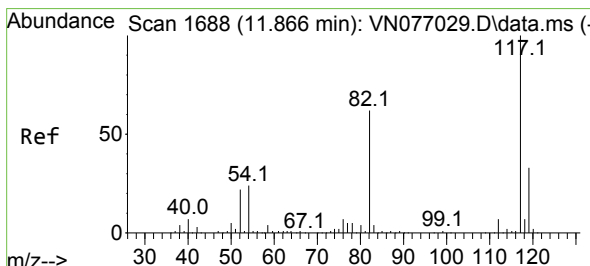
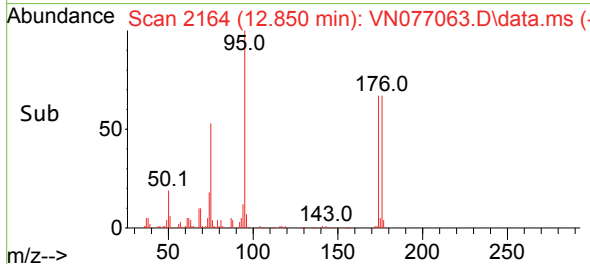
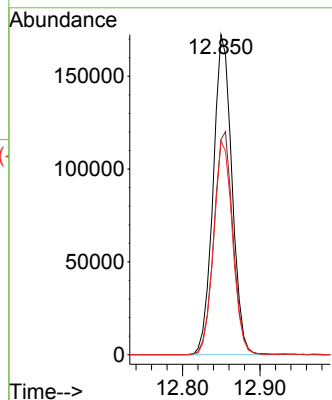
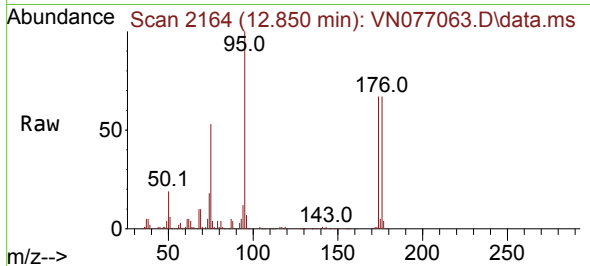




#62
4-Bromofluorobenzene
Concen: 45.368 ug/l
RT: 12.850 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN077063.D
Acq: 20 Mar 2023 13:04

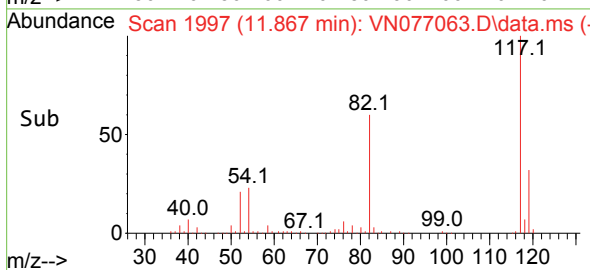
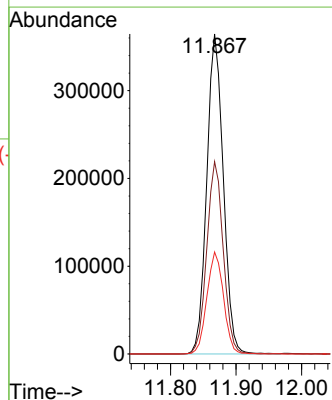
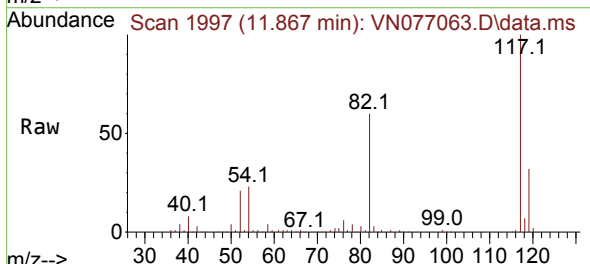
Instrument :
MSVOA_N
ClientSampleId :
RE117D1-20230313DL

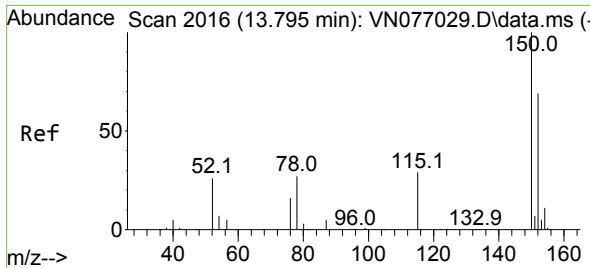
Tgt Ion: 95 Resp: 289801
Ion Ratio Lower Upper
95 100
174 70.6 0.0 136.6
176 67.1 0.0 130.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.867 min Scan# 1997
Delta R.T. 0.001 min
Lab File: VN077063.D
Acq: 20 Mar 2023 13:04

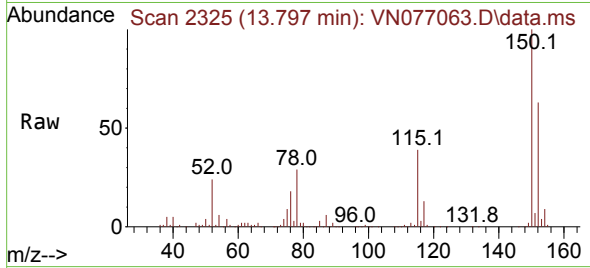
Tgt Ion: 117 Resp: 640090
Ion Ratio Lower Upper
117 100
82 60.1 49.4 74.0
119 31.9 26.5 39.7



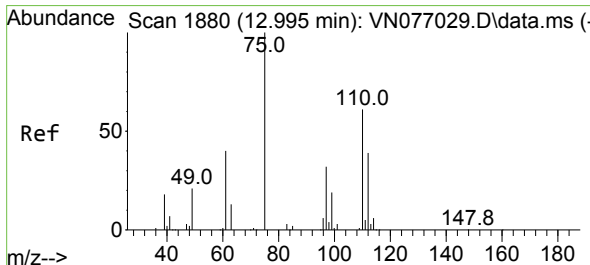
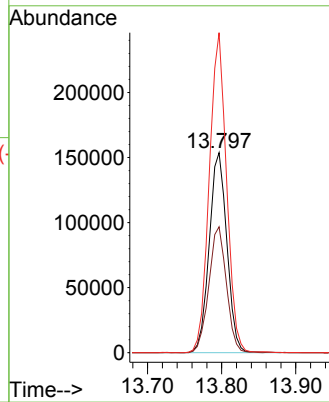
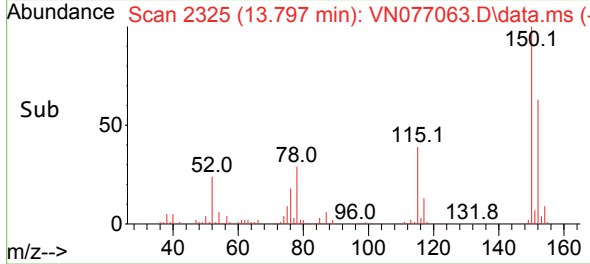


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.797 min Scan# 2164
 Delta R.T. 0.002 min
 Lab File: VN077063.D
 Acq: 20 Mar 2023 13:04

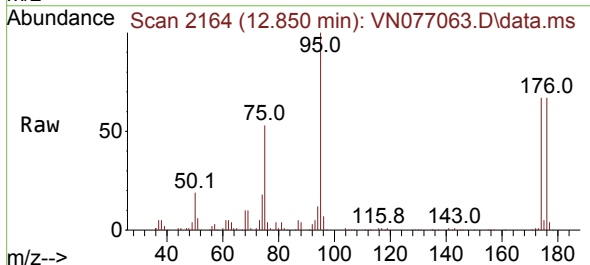
Instrument :
 MSVOA_N
 ClientSampleId :
 RE117D1-20230313DL



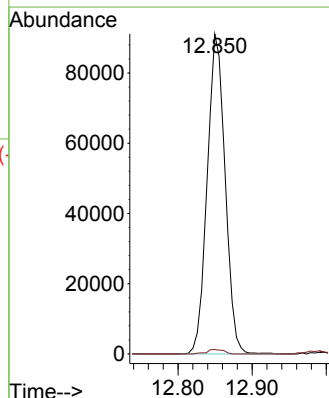
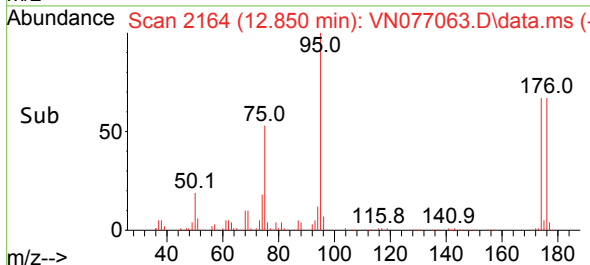
Tgt Ion:152 Resp: 254116
 Ion Ratio Lower Upper
 152 100
 115 62.8 31.9 95.7
 150 156.5 0.0 348.0

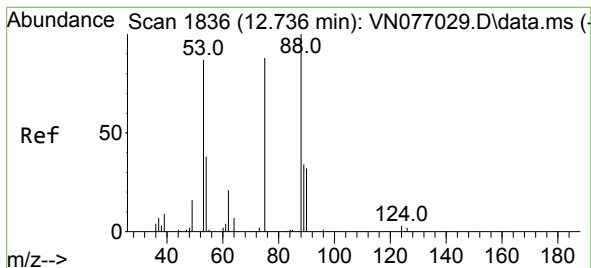


#76
 1,2,3-Trichloropropane
 Concen: 23.289 ug/l
 RT: 12.850 min Scan# 2164
 Delta R.T. -0.145 min
 Lab File: VN077063.D
 Acq: 20 Mar 2023 13:04



Tgt Ion: 75 Resp: 153078
 Ion Ratio Lower Upper
 75 100
 77 1.3 107.3 322.0#

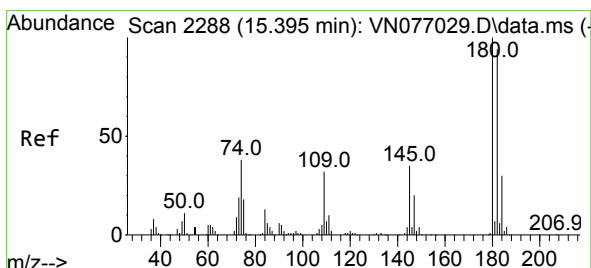
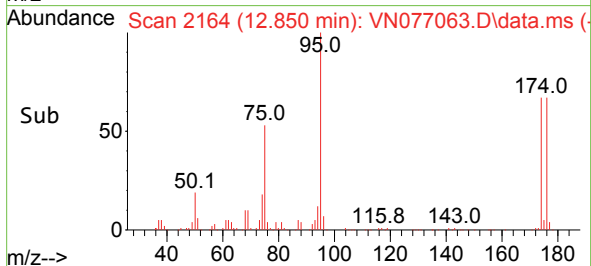
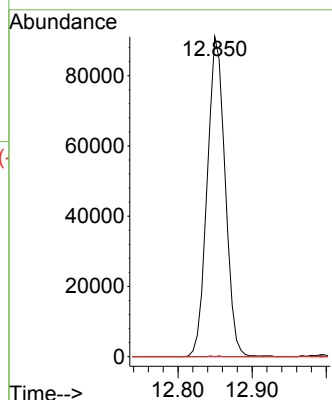
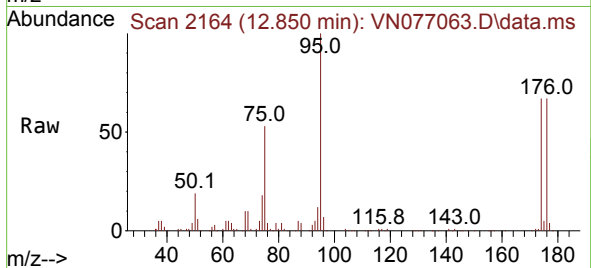




#81
trans-1,4-Dichloro-2-butene
Concen: 64.104 ug/l
RT: 12.850 min Scan# 2164
Delta R.T. 0.114 min
Lab File: VN077063.D
Acq: 20 Mar 2023 13:04

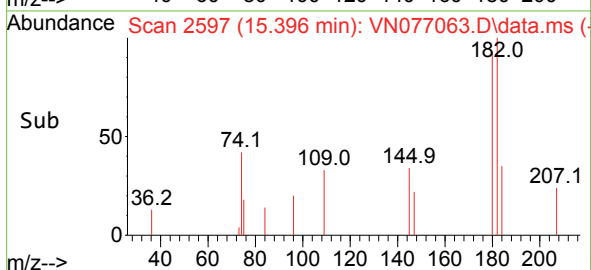
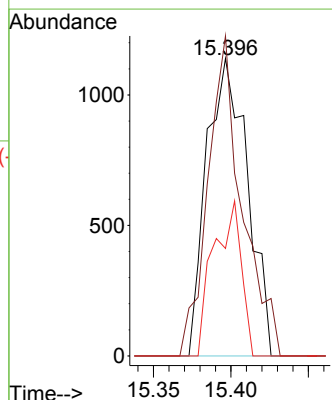
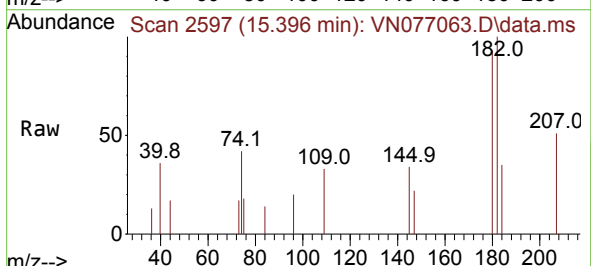
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MSVOA_N
ClientSampleId :
RE117D1-20230313DL

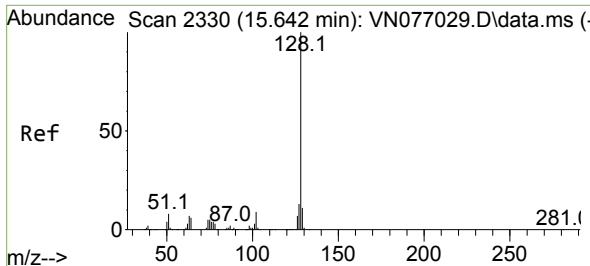
Tgt Ion: 75 Resp: 153078
Ion Ratio Lower Upper
75 100
53 0.1 80.8 121.2#
89 0.0 34.2 51.4#



#93
1,2,4-Trichlorobenzene
Concen: 0.479 ug/l
RT: 15.396 min Scan# 2597
Delta R.T. 0.001 min
Lab File: VN077063.D
Acq: 20 Mar 2023 13:04

Tgt Ion:180 Resp: 2083
Ion Ratio Lower Upper
180 100
182 90.2 47.3 141.9
145 35.4 16.9 50.7

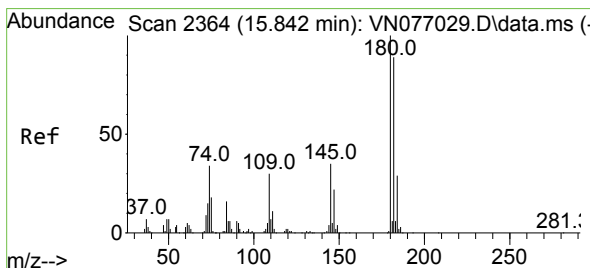
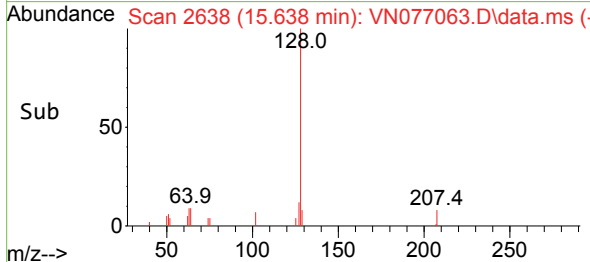
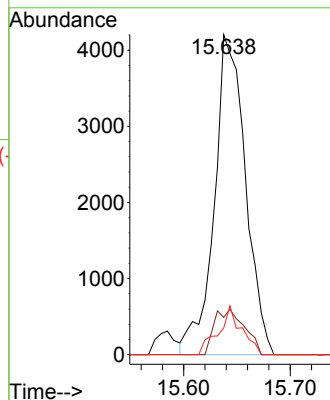
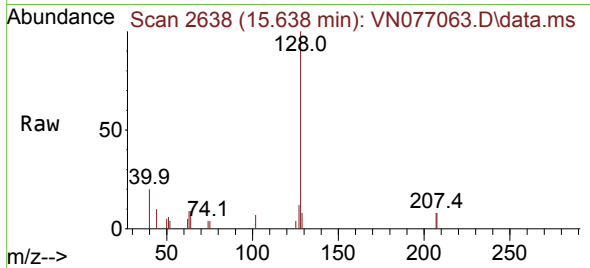




#95
Naphthalene
Concen: 2.398 ug/l
RT: 15.638 min Scan# 2638
Delta R.T. -0.004 min
Lab File: VN077063.D
Acq: 20 Mar 2023 13:04

Instrument :
MSVOA_N
ClientSampleId :
RE117D1-20230313DL

Tgt Ion:128 Resp: 8539
Ion Ratio Lower Upper
128 100
127 13.8 10.0 15.0
129 11.3 8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 0.515 ug/l
RT: 15.838 min Scan# 2672
Delta R.T. -0.004 min
Lab File: VN077063.D
Acq: 20 Mar 2023 13:04

Tgt Ion:180 Resp: 2247
Ion Ratio Lower Upper
180 100
182 99.8 47.4 142.2
145 32.0 17.9 53.8

