

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031723\
 Data File : VN077044.D
 Acq On : 17 Mar 2023 19:47
 Operator : JC\MD
 Sample : 01904-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE137-20230313

Quant Time: Mar 18 02:34:18 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)

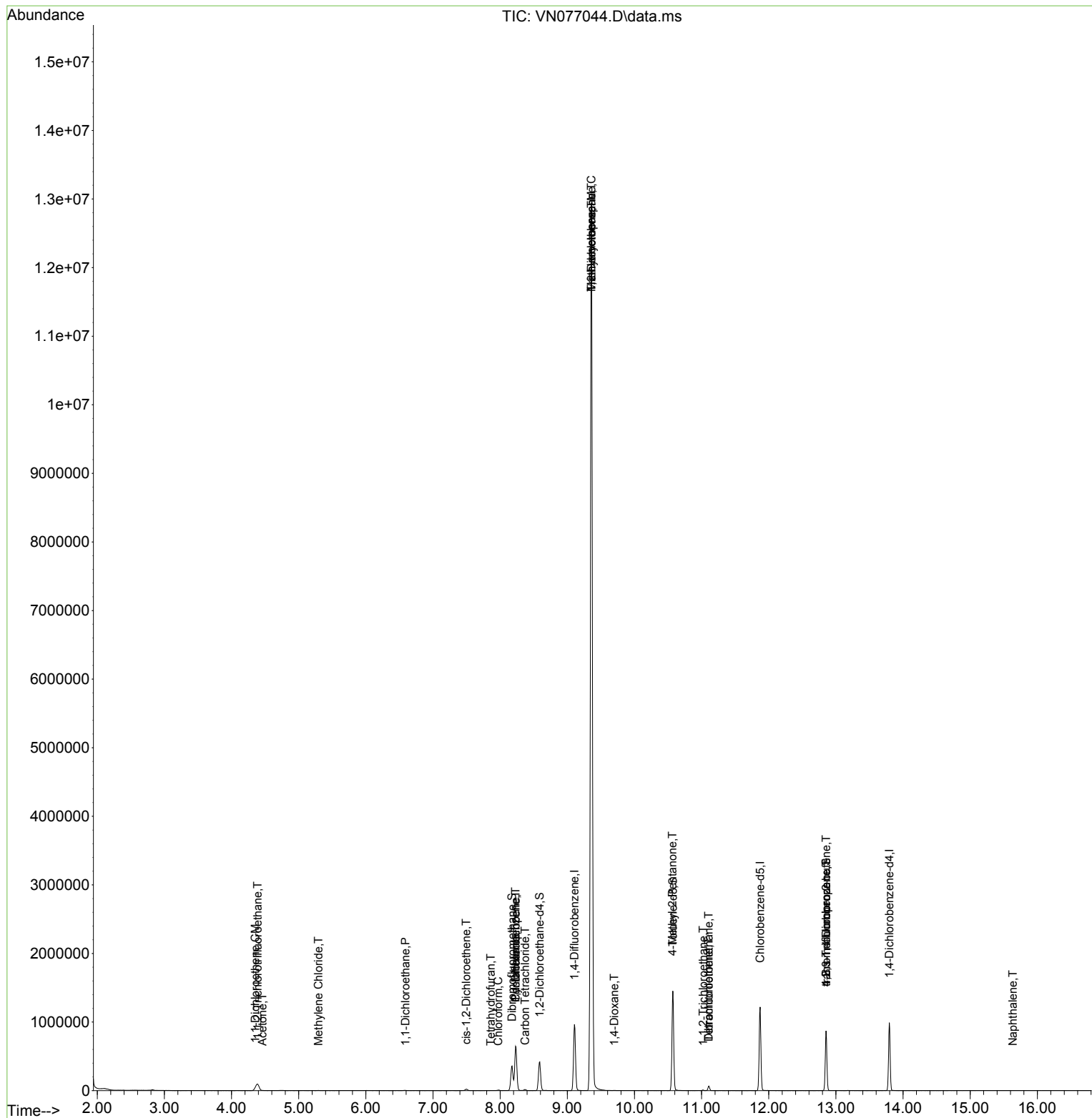
Internal Standards						
1) Pentafluorobenzene	8.230	168	444347	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	805615	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	684831	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	248992	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.589	65	344408	48.524	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.040%		
35) Dibromofluoromethane	8.178	113	262495	46.527	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.060%		
50) Toluene-d8	10.572	98	970473	48.154	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.300%		
62) 4-Bromofluorobenzene	12.854	95	305672	42.923	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	85.840%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.143	85	1720	Below Cal		81
9) 1,1,2-Trichlorotrifluo...	4.390	101	63932	10.841	ug/l	99
12) 1,1-Dichloroethene	4.354	96	15381	2.851	ug/l	95
16) Acetone	4.460	43	1844	0.583	ug/l #	43
20) Methylene Chloride	5.295	84	1408	0.205	ug/l #	79
24) 1,1-Dichloroethane	6.589	63	6485	0.524	ug/l #	84
27) cis-1,2-Dichloroethene	7.495	96	12058	1.801	ug/l	88
29) Tetrahydrofuran	7.860	42	932	0.311	ug/l #	42
30) Chloroform	7.972	83	8356	0.695	ug/l	87
31) Cyclohexane	8.230	56	10979	0.945	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	40982	4.651	ug/l #	52
38) Carbon Tetrachloride	8.372	117	11516	1.342	ug/l	93
39) Methylcyclohexane	9.360	83	61358	5.949	ug/l #	1
44) Trichloroethene	9.360	130	4466041	727.534	ug/l	92
45) 1,2-Dichloropropane	9.360	63	15966	2.249	ug/l #	1
49) 1,4-Dioxane	9.701	88	1565	13.013	ug/l #	76
51) 4-Methyl-2-Pentanone	10.566	43	4700	0.512	ug/l #	1
55) 1,1,2-Trichloroethane	11.024	97	2959	0.470	ug/l #	80
60) Dibromochloromethane	11.107	129	14877	2.354	ug/l #	11
64) Tetrachloroethene	11.107	164	14918	3.246	ug/l	92
76) 1,2,3-Trichloropropane	12.854	75	163981	25.461	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	163981	70.083	ug/l #	10
95) Naphthalene	15.636	128	879	1.963	ug/l #	70

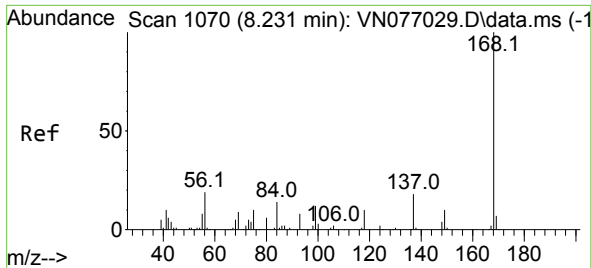
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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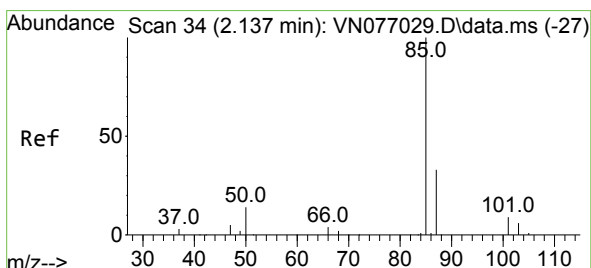
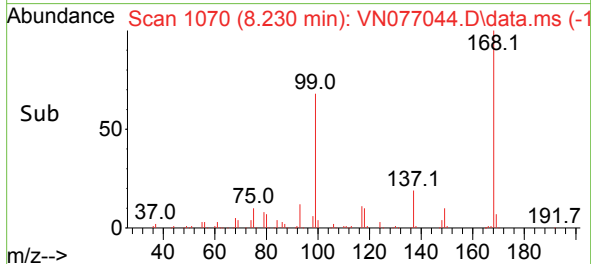
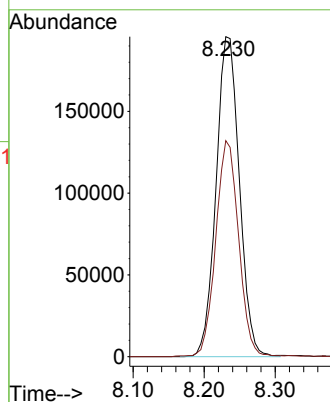
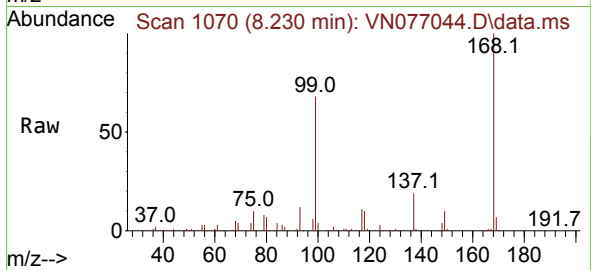




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.001 min
Lab File: VN077044.D
Acq: 17 Mar 2023 19:47

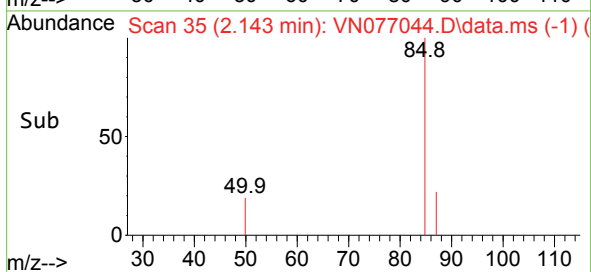
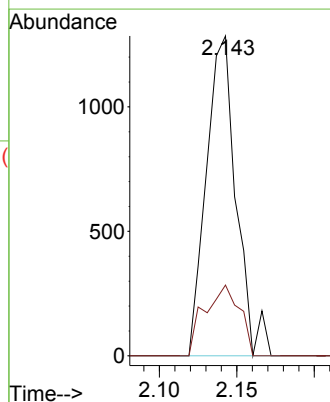
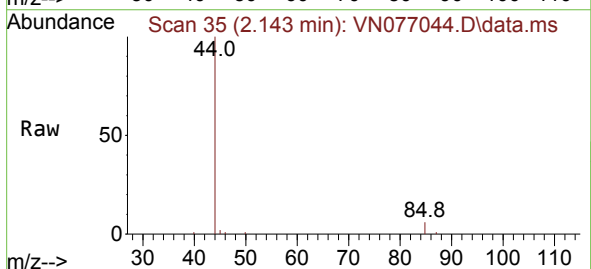
Instrument :
MSVOA_N
ClientSampleId :
RE137-20230313

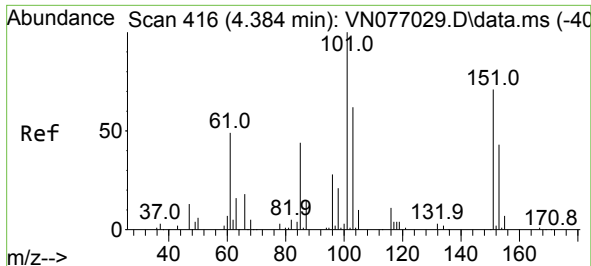
Tgt Ion:168 Resp: 444347
Ion Ratio Lower Upper
168 100
99 67.3 53.9 80.9



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 2.143 min Scan# 35
Delta R.T. 0.006 min
Lab File: VN077044.D
Acq: 17 Mar 2023 19:47

Tgt Ion: 85 Resp: 1720
Ion Ratio Lower Upper
85 100
87 22.1 16.4 49.2

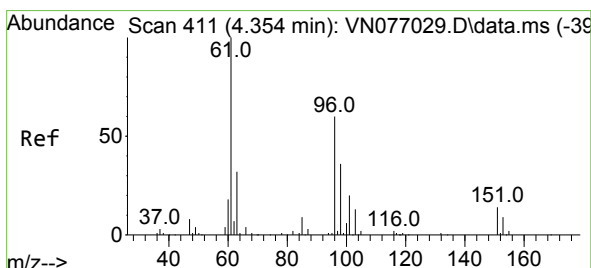
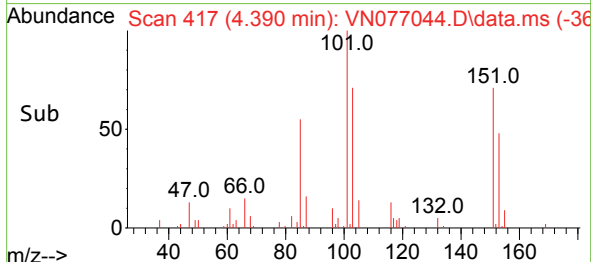
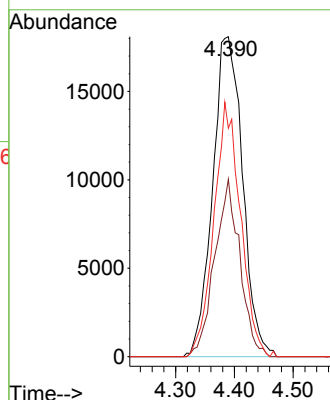
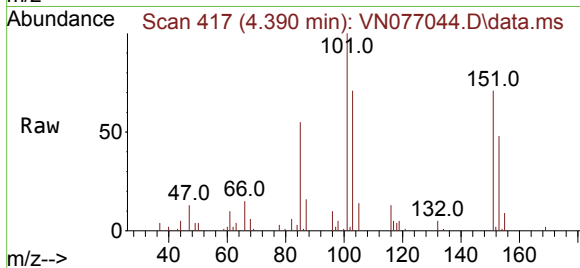




#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.841 ug/l
RT: 4.390 min Scan# 416
Delta R.T. 0.006 min
Lab File: VN077044.D
Acq: 17 Mar 2023 19:47

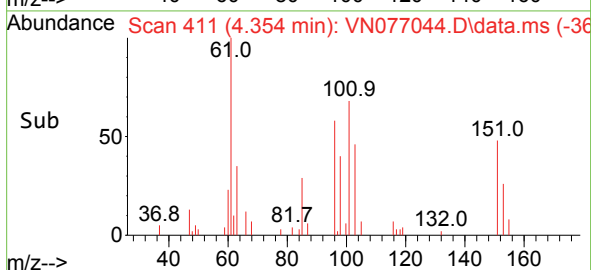
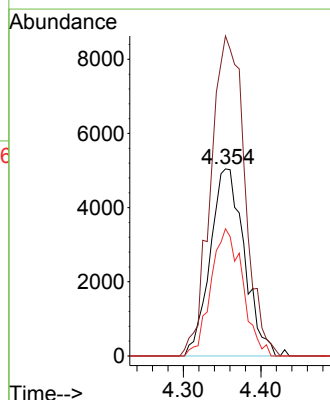
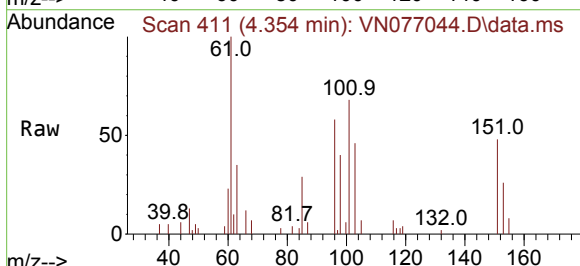
Instrument :
MSVOA_N
ClientSampleId :
RE137-20230313

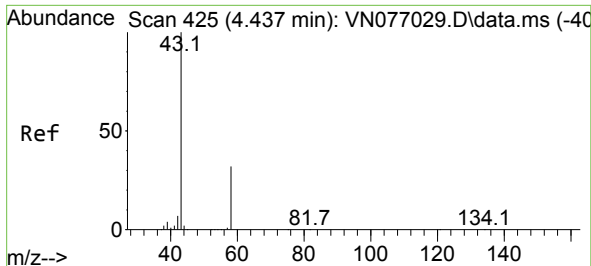
Tgt Ion:101 Resp: 63932
Ion Ratio Lower Upper
101 100
85 46.9 36.6 55.0
151 70.8 56.9 85.3



#12
1,1-Dichloroethene
Concen: 2.851 ug/l
RT: 4.354 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN077044.D
Acq: 17 Mar 2023 19:47

Tgt Ion: 96 Resp: 15381
Ion Ratio Lower Upper
96 100
61 171.1 133.8 200.8
98 68.0 48.6 72.8





#16

Acetone

Concen: 0.583 ug/l

RT: 4.460 min Scan# 41

Delta R.T. 0.023 min

Lab File: VN077044.D

Acq: 17 Mar 2023 19:47

Instrument :

MSVOA_N

ClientSampleId :

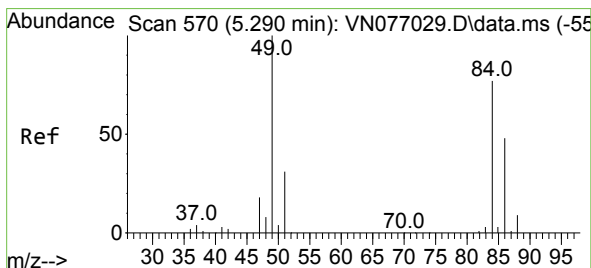
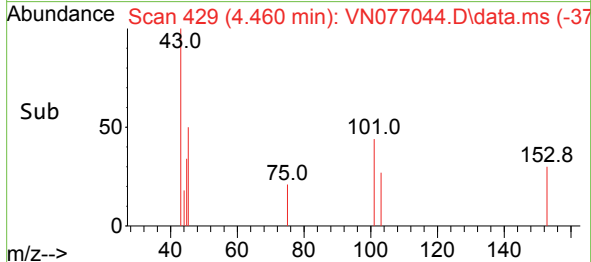
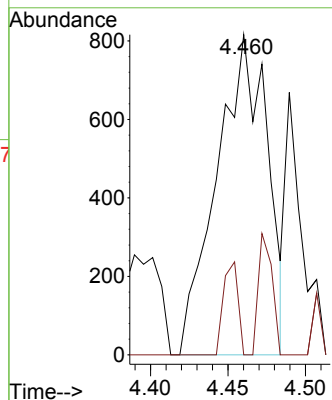
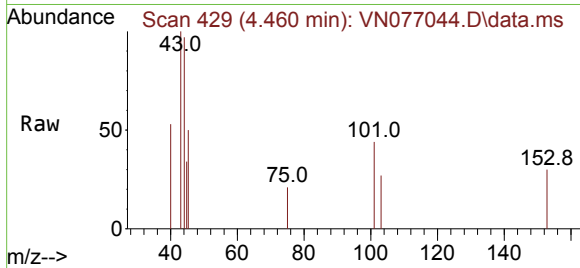
RE137-20230313

Tgt Ion: 43 Resp: 1844

Ion Ratio Lower Upper

43 100

58 0.0 25.4 38.0#



#20

Methylene Chloride

Concen: 0.205 ug/l

RT: 5.295 min Scan# 571

Delta R.T. 0.006 min

Lab File: VN077044.D

Acq: 17 Mar 2023 19:47

Tgt Ion: 84 Resp: 1408

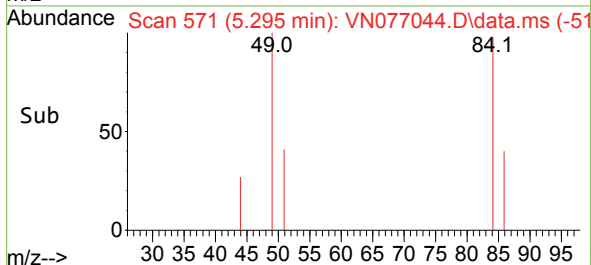
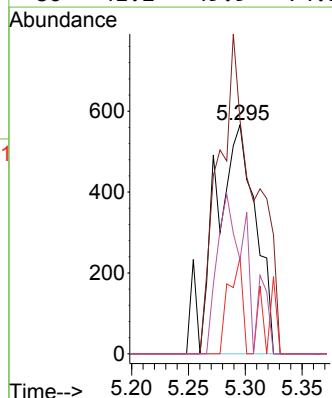
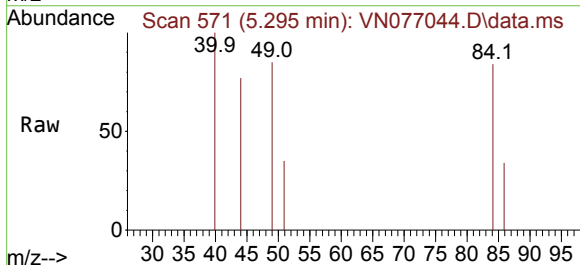
Ion Ratio Lower Upper

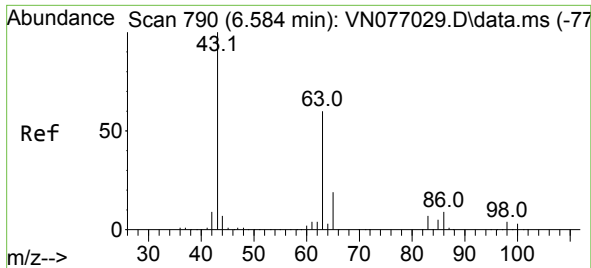
84 100

49 101.9 103.8 155.6#

51 42.0 32.3 48.5

86 41.2 49.9 74.9#

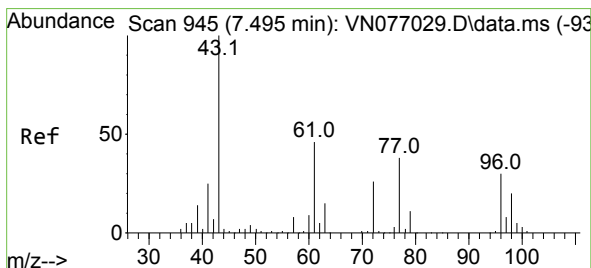
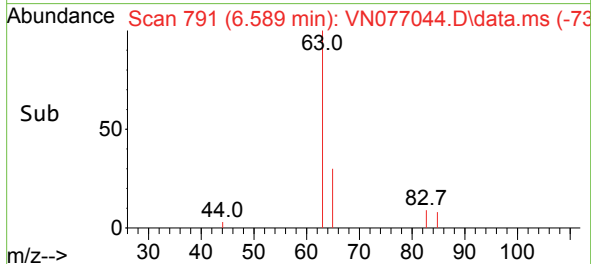
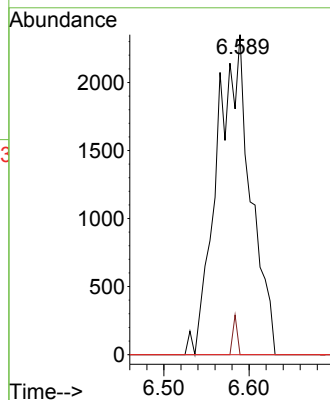
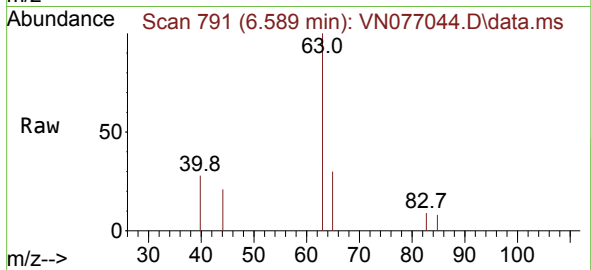




#24
1,1-Dichloroethane
Concen: 0.524 ug/l
RT: 6.589 min Scan# 791
Delta R.T. 0.006 min
Lab File: VN077044.D
Acq: 17 Mar 2023 19:47

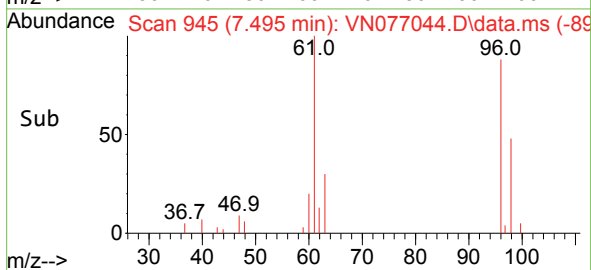
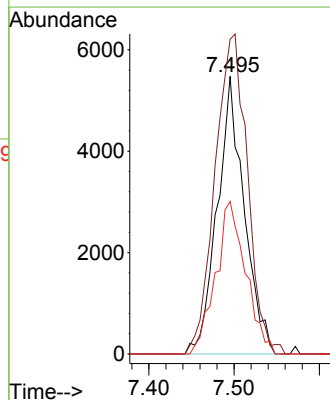
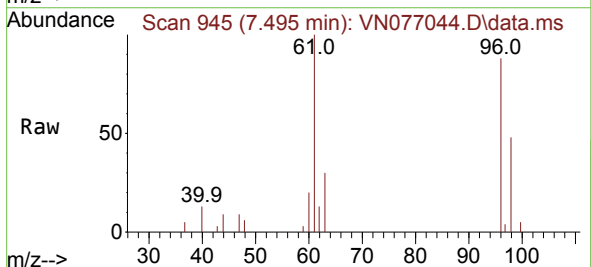
Instrument :
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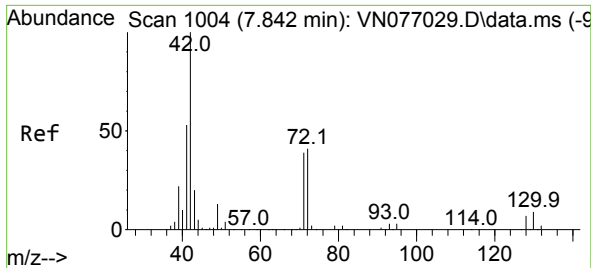
Tgt Ion: 63 Resp: 6485
Ion Ratio Lower Upper
63 100
98 0.0 3.1 9.4#
100 0.0 2.1 6.3#



#27
cis-1,2-Dichloroethene
Concen: 1.801 ug/l
RT: 7.495 min Scan# 945
Delta R.T. -0.000 min
Lab File: VN077044.D
Acq: 17 Mar 2023 19:47

Tgt Ion: 96 Resp: 12058
Ion Ratio Lower Upper
96 100
61 137.9 0.0 315.4
98 61.1 0.0 128.6

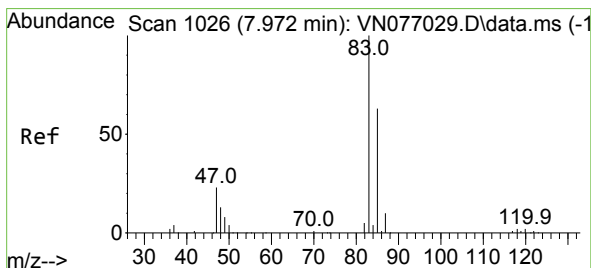
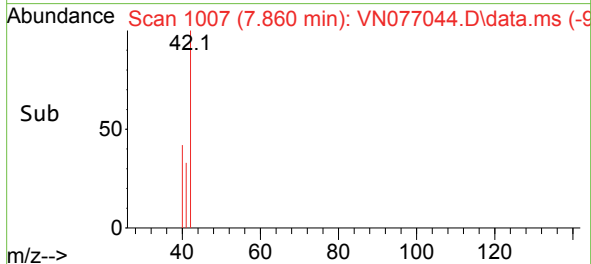
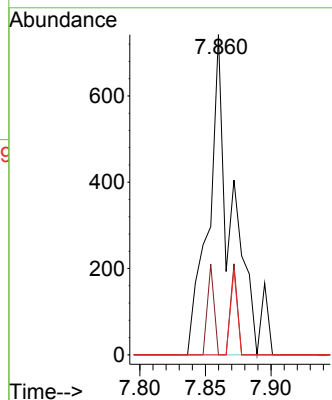
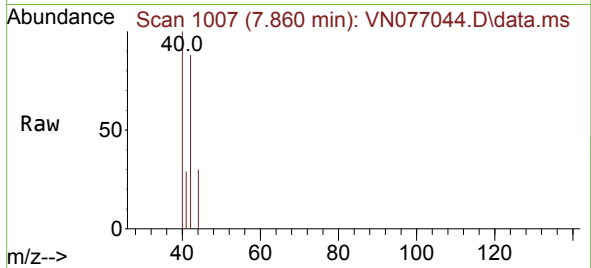




#29
Tetrahydrofuran
Concen: 0.311 ug/l
RT: 7.860 min Scan# 1007
Delta R.T. 0.018 min
Lab File: VN077044.D
Acq: 17 Mar 2023 19:47

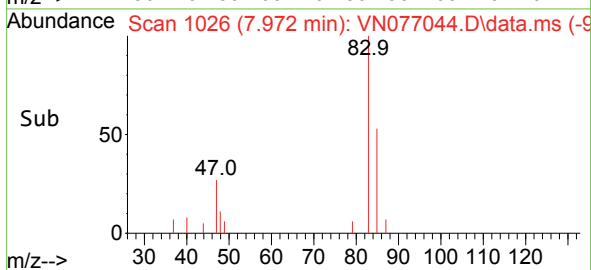
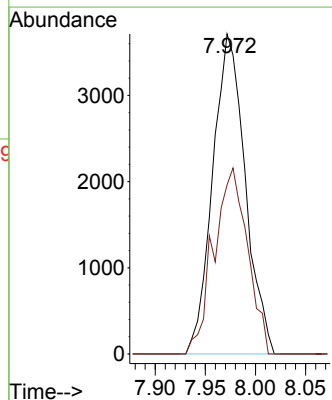
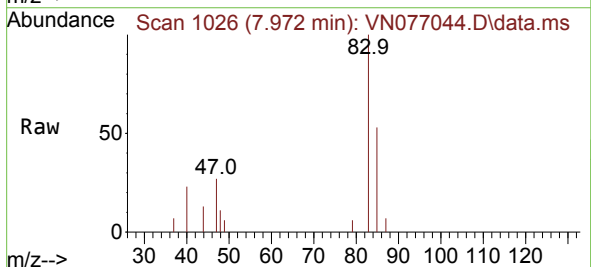
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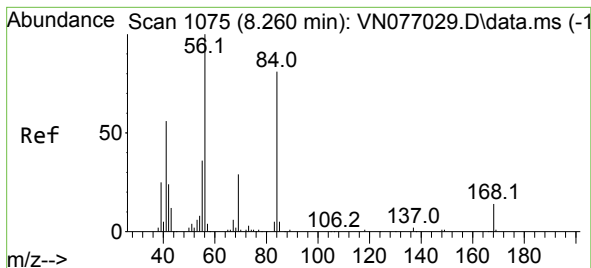
Tgt Ion: 42 Resp: 932
Ion Ratio Lower Upper
42 100
72 7.9 33.2 49.8#
71 0.0 31.0 46.4#



#30
Chloroform
Concen: 0.695 ug/l
RT: 7.972 min Scan# 1026
Delta R.T. -0.000 min
Lab File: VN077044.D
Acq: 17 Mar 2023 19:47

Tgt Ion: 83 Resp: 8356
Ion Ratio Lower Upper
83 100
85 52.8 50.6 75.8





#31

Cyclohexane

Concen: 0.945 ug/l

RT: 8.230 min Scan# 1075

Delta R.T. -0.029 min

Lab File: VN077044.D

Acq: 17 Mar 2023 19:47

Instrument :

MSVOA_N

ClientSampleId :

RE137-20230313

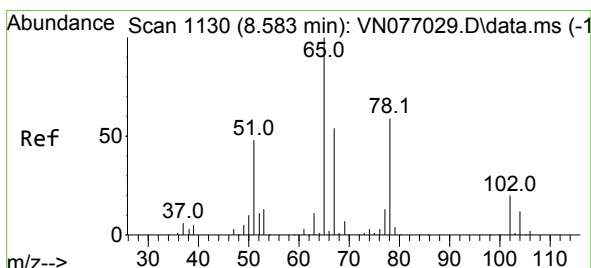
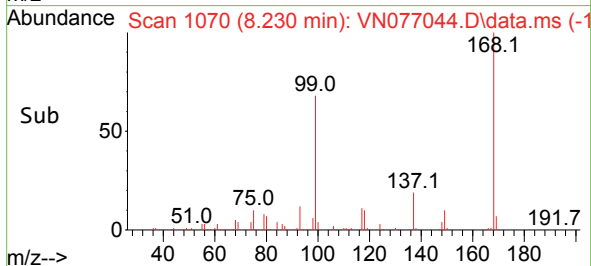
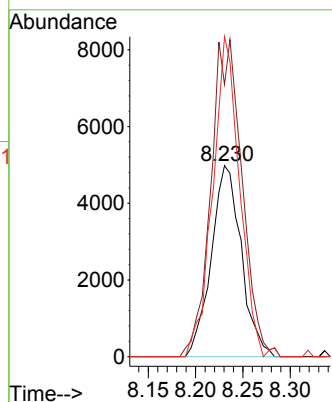
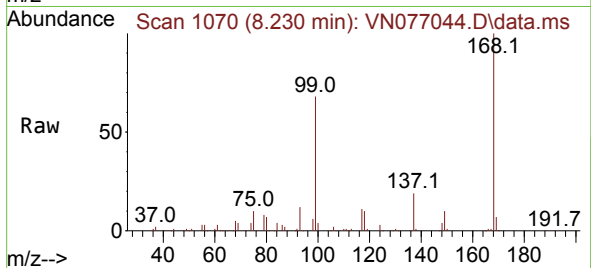
Tgt Ion: 56 Resp: 10979

Ion Ratio Lower Upper

56 100

69 142.5 22.8 34.2#

84 167.5 64.7 97.1#



#33

1,2-Dichloroethane-d4

Concen: 48.524 ug/l

RT: 8.589 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VN077044.D

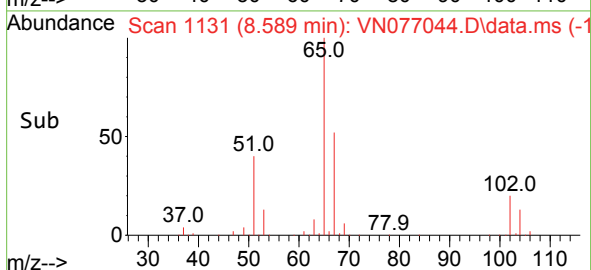
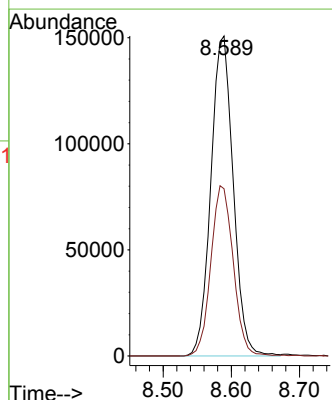
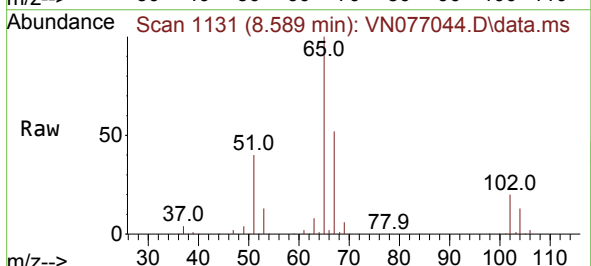
Acq: 17 Mar 2023 19:47

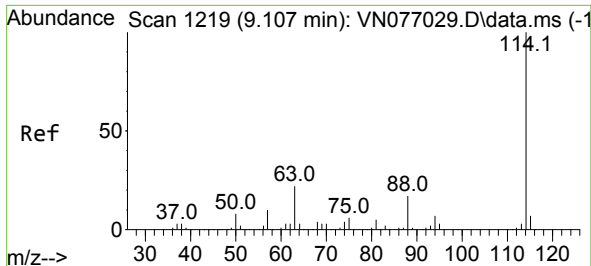
Tgt Ion: 65 Resp: 344408

Ion Ratio Lower Upper

65 100

67 53.2 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: VN077044.D

Acq: 17 Mar 2023 19:47

Instrument :

MSVOA_N

ClientSampleId :

RE137-20230313

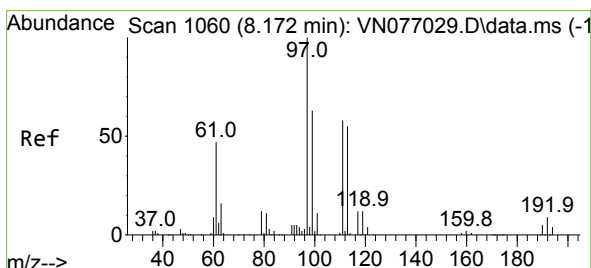
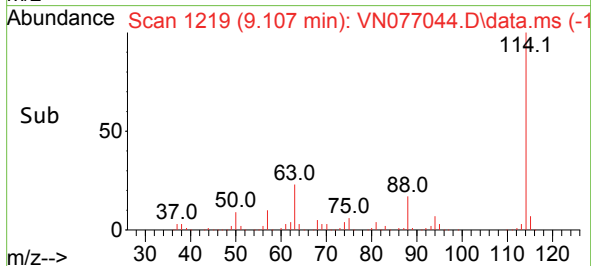
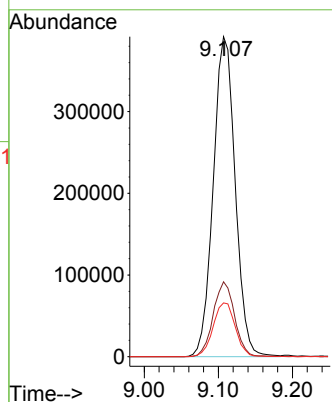
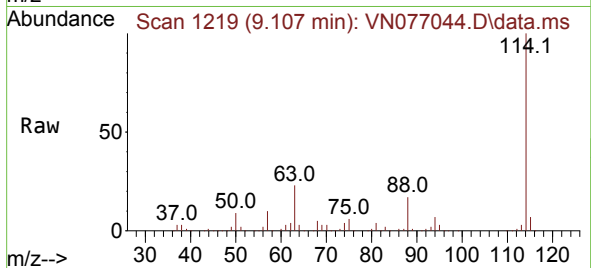
Tgt Ion:114 Resp: 805615

Ion Ratio Lower Upper

114 100

63 23.4 0.0 44.6

88 16.8 0.0 33.8



#35

Dibromofluoromethane

Concen: 46.527 ug/l

RT: 8.178 min Scan# 1061

Delta R.T. 0.006 min

Lab File: VN077044.D

Acq: 17 Mar 2023 19:47

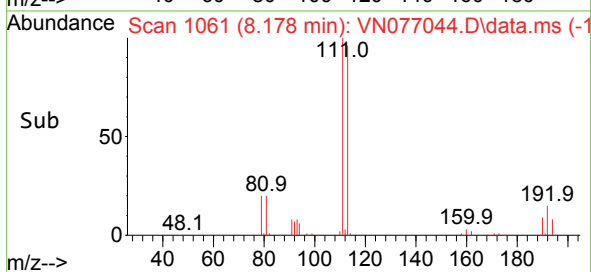
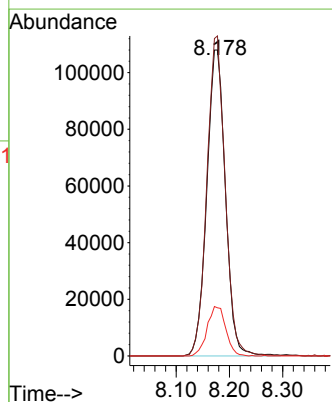
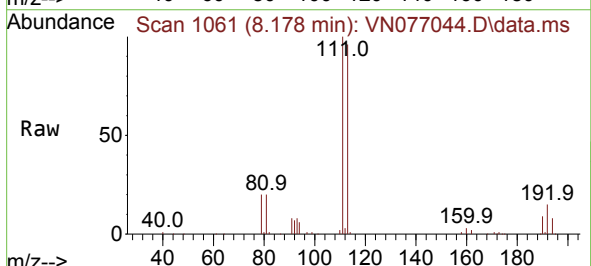
Tgt Ion:113 Resp: 262495

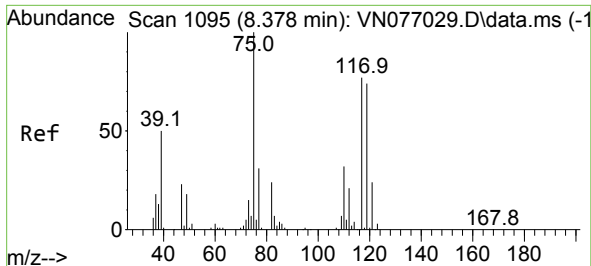
Ion Ratio Lower Upper

113 100

111 102.3 82.2 123.2

192 16.2 13.0 19.6





#36

1,1-Dichloropropene

Concen: 4.651 ug/l

RT: 8.230 min Scan# 1094

Delta R.T. -0.147 min

Lab File: VN077044.D

Acq: 17 Mar 2023 19:47

Instrument :

MSVOA_N

ClientSampleId :

RE137-20230313

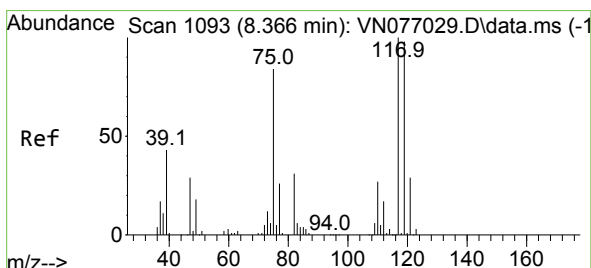
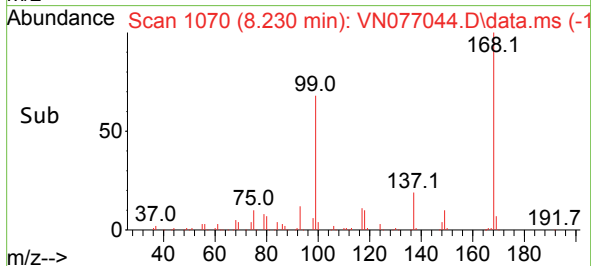
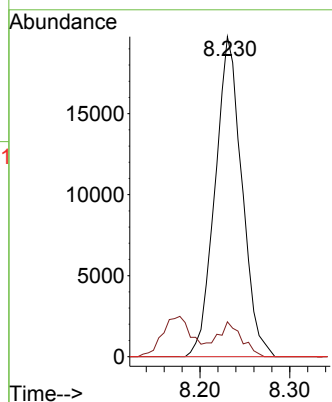
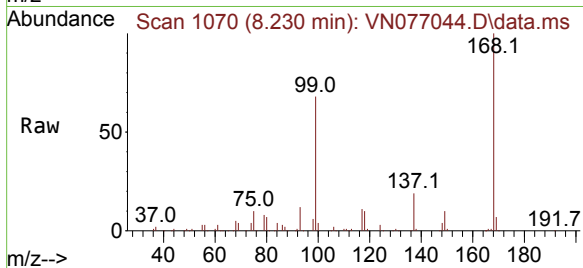
Tgt Ion: 75 Resp: 40982

Ion Ratio Lower Upper

75 100

110 9.0 15.9 47.7#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 1.342 ug/l

RT: 8.372 min Scan# 1094

Delta R.T. 0.006 min

Lab File: VN077044.D

Acq: 17 Mar 2023 19:47

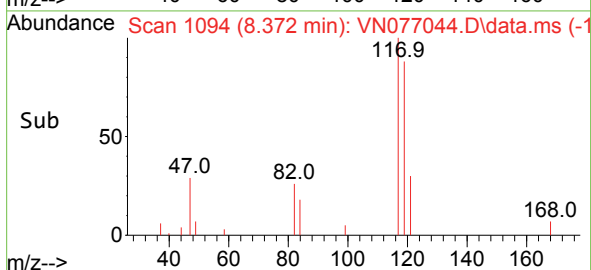
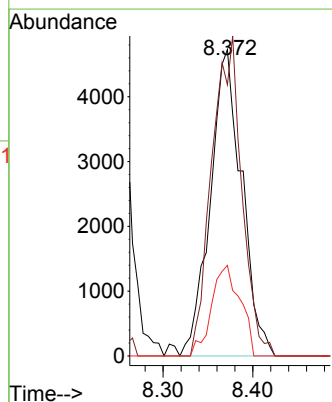
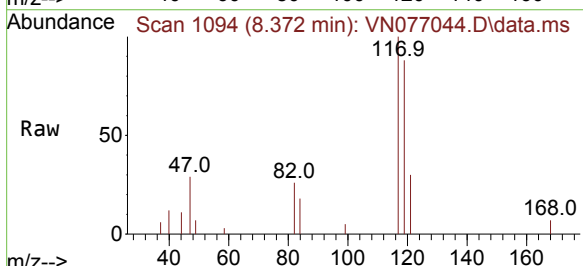
Tgt Ion: 117 Resp: 11516

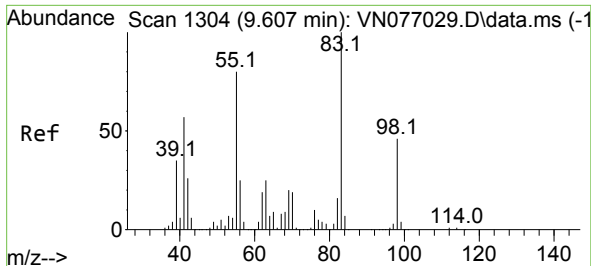
Ion Ratio Lower Upper

117 100

119 88.5 78.2 117.2

121 29.6 23.2 34.8

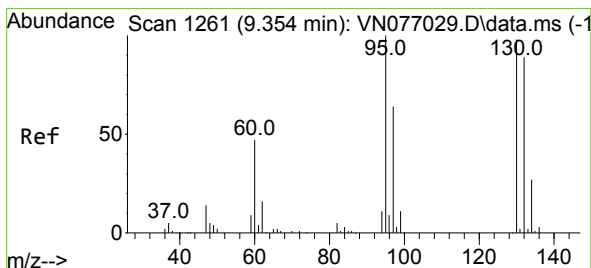
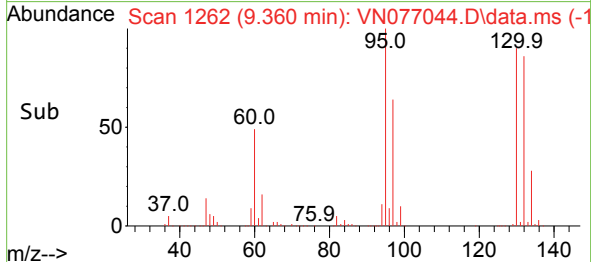
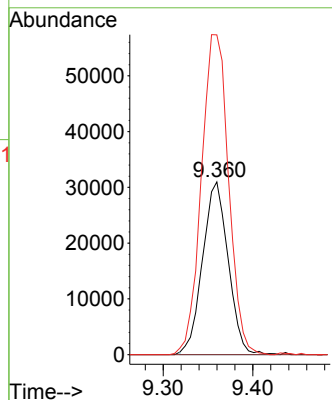
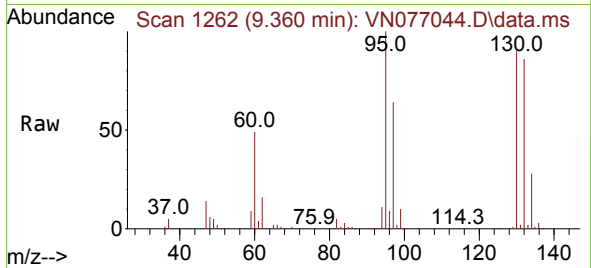




#39
Methylcyclohexane
Concen: 5.949 ug/l
RT: 9.360 min Scan# 1262
Delta R.T. -0.247 min
Lab File: VN077044.D
Acq: 17 Mar 2023 19:47

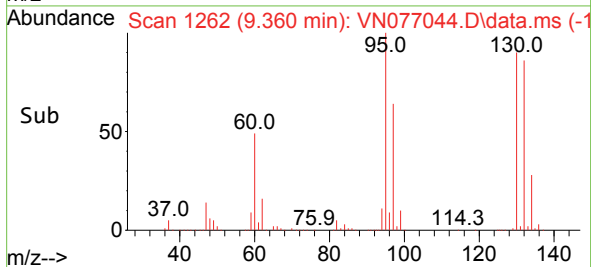
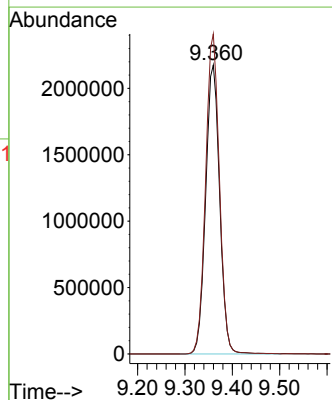
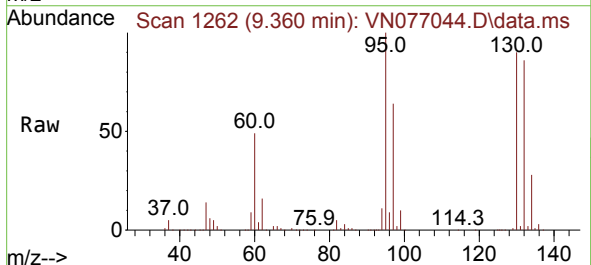
Instrument :
MSVOA_N
ClientSampleId :
RE137-20230313

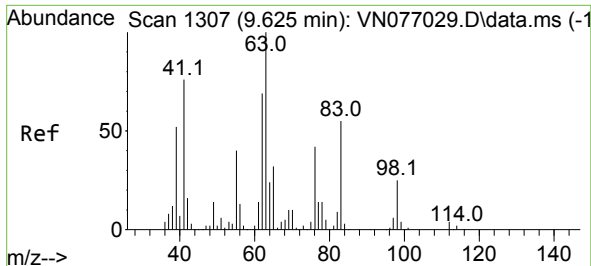
Tgt Ion: 83 Resp: 61358
Ion Ratio Lower Upper
83 100
55 0.0 63.8 95.8#
98 184.0 37.1 55.7#



#44
Trichloroethene
Concen: 727.534 ug/l
RT: 9.360 min Scan# 1262
Delta R.T. 0.006 min
Lab File: VN077044.D
Acq: 17 Mar 2023 19:47

Tgt Ion:130 Resp: 4466041
Ion Ratio Lower Upper
130 100
95 110.7 0.0 204.4





#45

1,2-Dichloropropane

Concen: 2.249 ug/l

RT: 9.360 min Scan# 1

Delta R.T. -0.265 min

Lab File: VN077044.D

Acq: 17 Mar 2023 19:47

Instrument :

MSVOA_N

ClientSampleId :

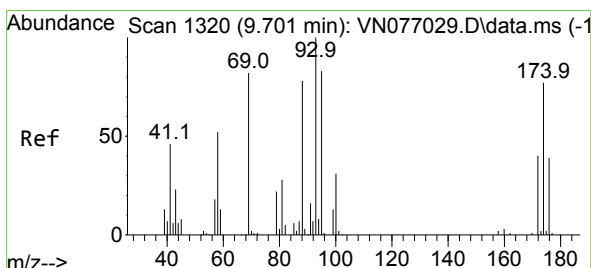
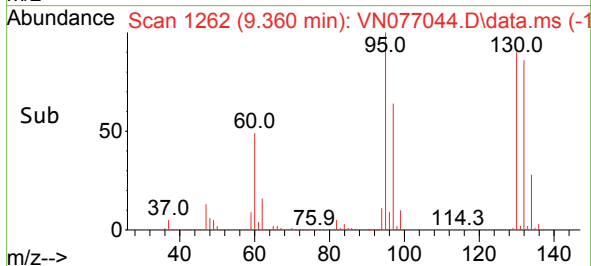
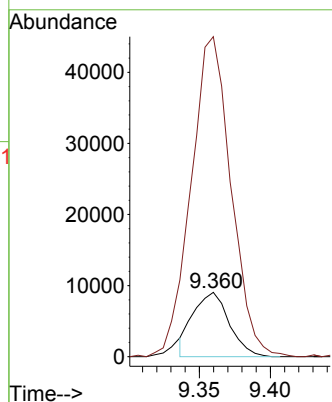
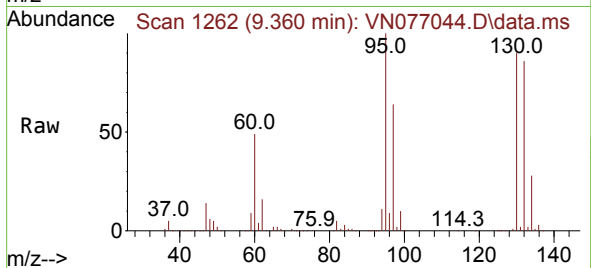
RE137-20230313

Tgt Ion: 63 Resp: 15966

Ion Ratio Lower Upper

63 100

65 492.7 25.5 38.3#



#49

1,4-Dioxane

Concen: 13.013 ug/l

RT: 9.701 min Scan# 1320

Delta R.T. -0.000 min

Lab File: VN077044.D

Acq: 17 Mar 2023 19:47

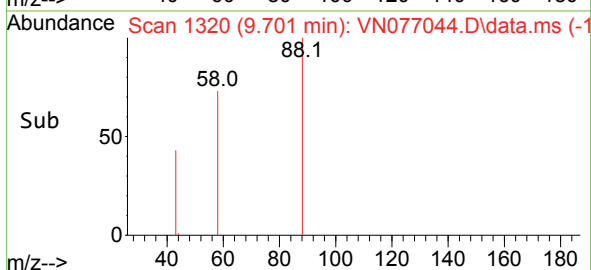
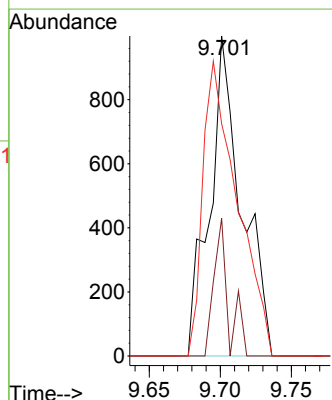
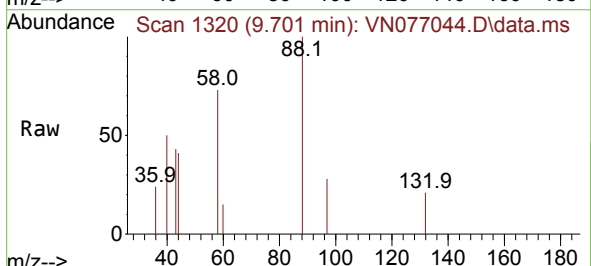
Tgt Ion: 88 Resp: 1565

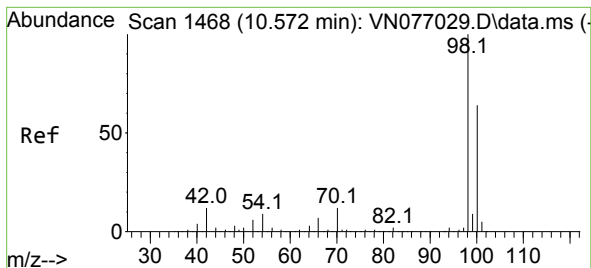
Ion Ratio Lower Upper

88 100

43 19.5 22.2 33.2#

58 98.8 60.8 91.2#





#50

Toluene-d8

Concen: 48.154 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VN077044.D

Acq: 17 Mar 2023 19:47

Instrument :

MSVOA_N

ClientSampleId :

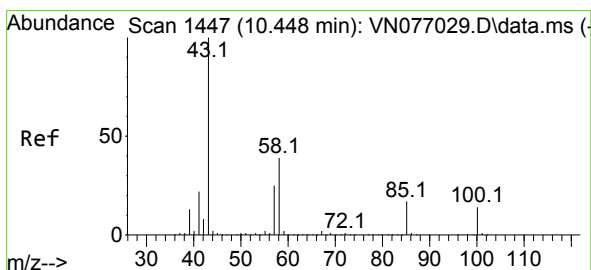
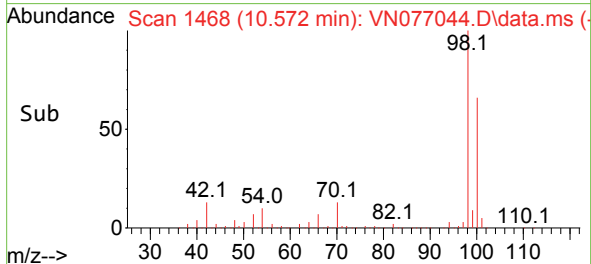
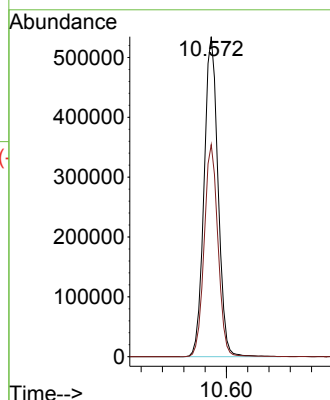
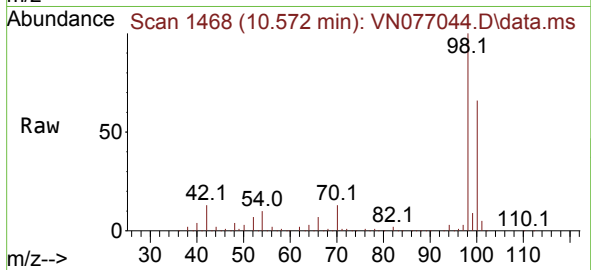
RE137-20230313

Tgt Ion: 98 Resp: 970473

Ion Ratio Lower Upper

98 100

100 65.4 51.6 77.4



#51

4-Methyl-2-Pentanone

Concen: 0.512 ug/l

RT: 10.566 min Scan# 1467

Delta R.T. 0.118 min

Lab File: VN077044.D

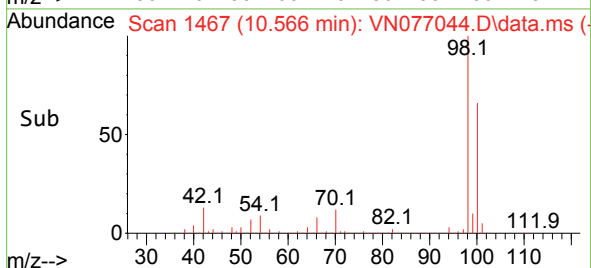
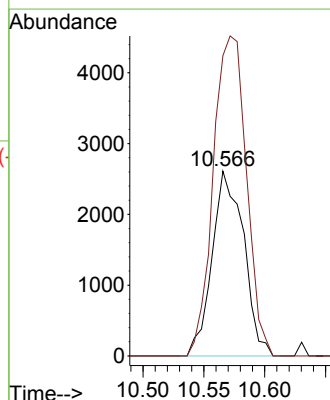
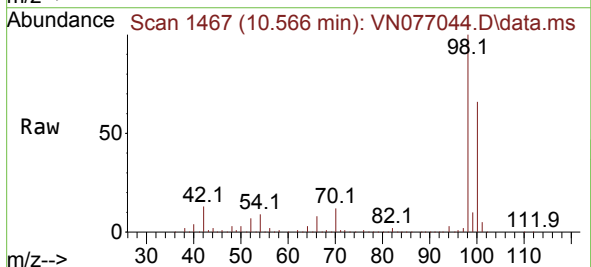
Acq: 17 Mar 2023 19:47

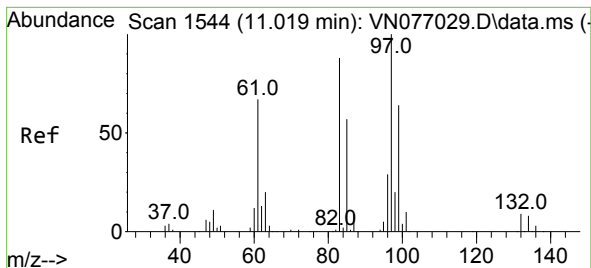
Tgt Ion: 43 Resp: 4700

Ion Ratio Lower Upper

43 100

58 182.1 31.1 46.7#





#55

1,1,2-Trichloroethane

Concen: 0.470 ug/l

RT: 11.024 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN077044.D

Acq: 17 Mar 2023 19:47

Instrument :

MSVOA_N

ClientSampleId :

RE137-20230313

Tgt Ion: 97 Resp: 2959

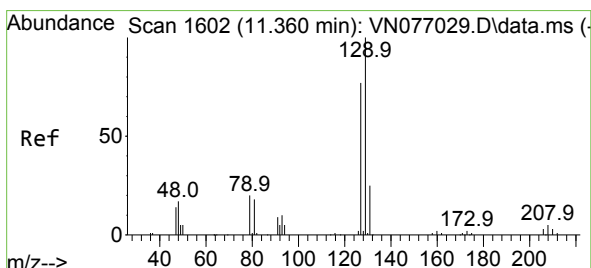
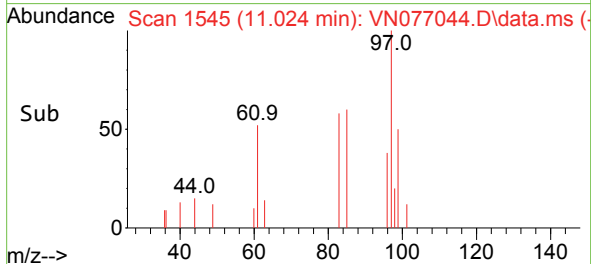
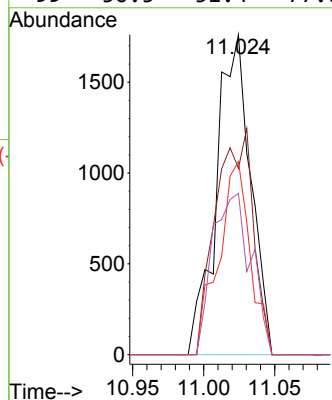
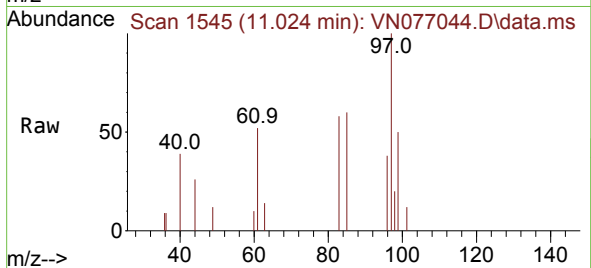
Ion Ratio Lower Upper

97 100

83 58.2 70.5 105.7#

85 60.3 45.4 68.2

99 50.5 51.4 77.0#



#60

Dibromochloromethane

Concen: 2.354 ug/l

RT: 11.107 min Scan# 1559

Delta R.T. -0.253 min

Lab File: VN077044.D

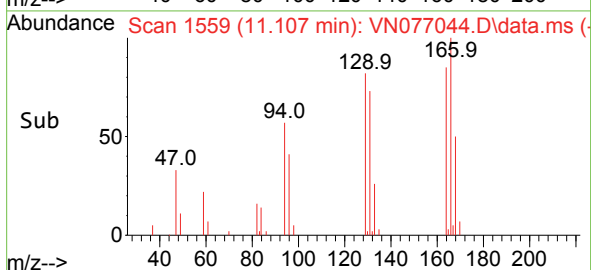
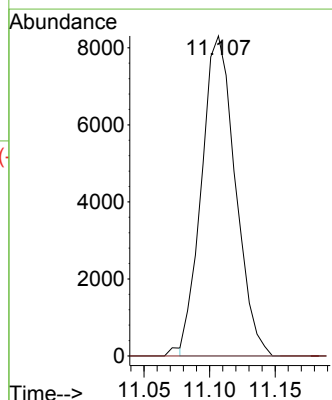
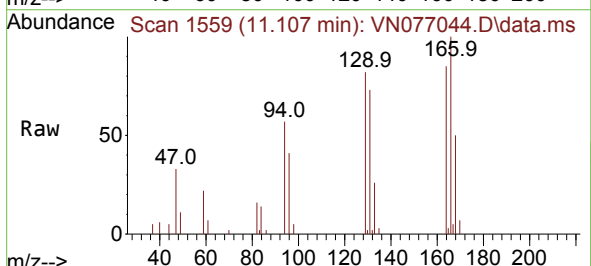
Acq: 17 Mar 2023 19:47

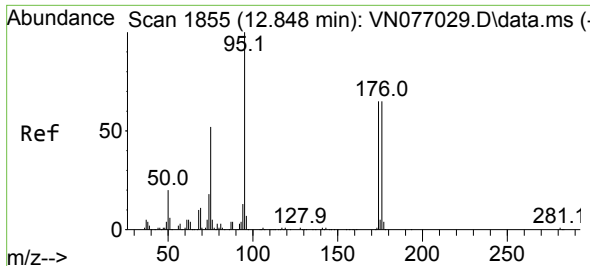
Tgt Ion: 129 Resp: 14877

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.7#

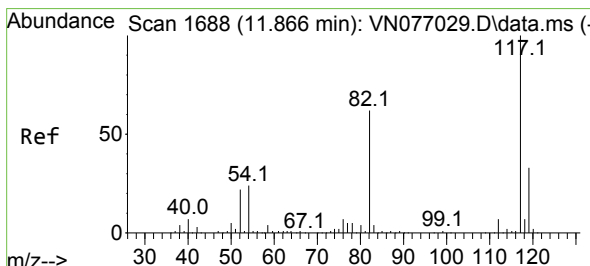
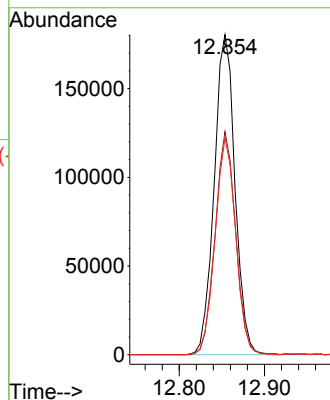
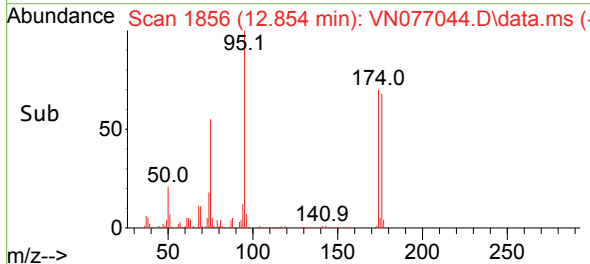
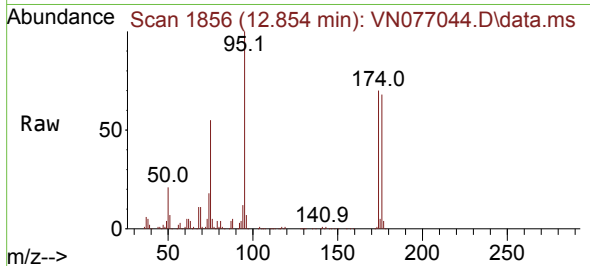




#62
4-Bromofluorobenzene
Concen: 42.923 ug/l
RT: 12.854 min Scan# 1855
Delta R.T. 0.006 min
Lab File: VN077044.D
Acq: 17 Mar 2023 19:47

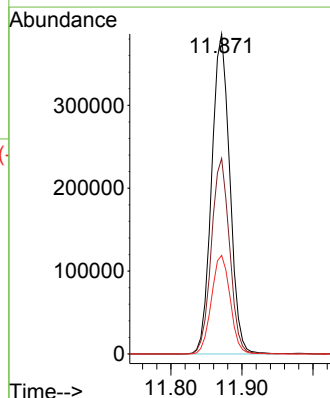
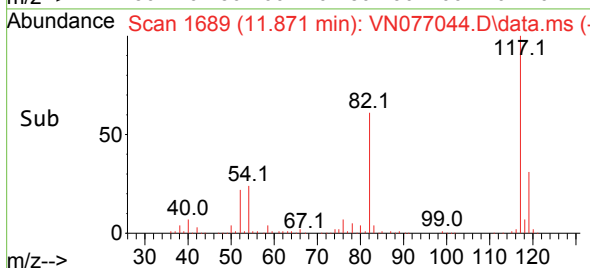
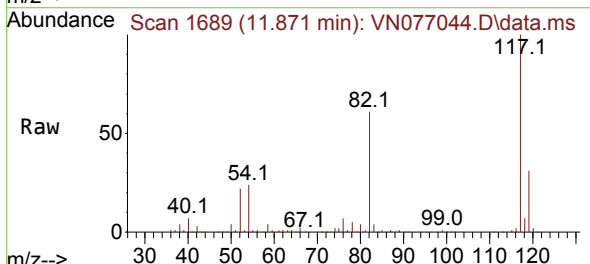
Instrument :
MSVOA_N
ClientSampleId :
RE137-20230313

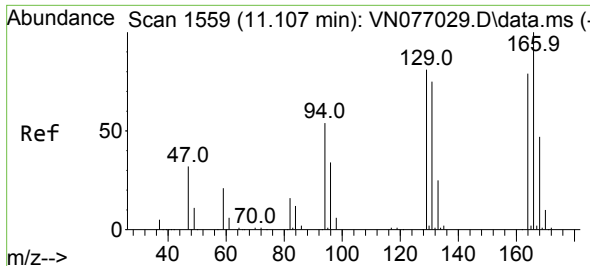
Tgt Ion: 95 Resp: 305672
Ion Ratio Lower Upper
95 100
174 68.8 0.0 136.6
176 66.9 0.0 130.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1689
Delta R.T. 0.006 min
Lab File: VN077044.D
Acq: 17 Mar 2023 19:47

Tgt Ion: 117 Resp: 684831
Ion Ratio Lower Upper
117 100
82 61.1 49.4 74.0
119 30.8 26.5 39.7

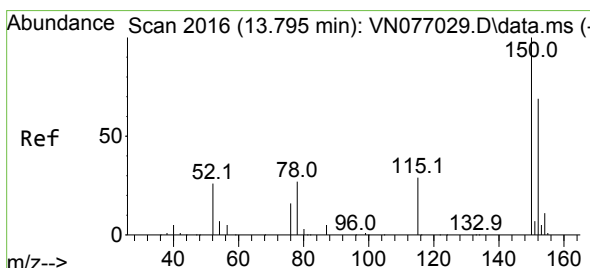
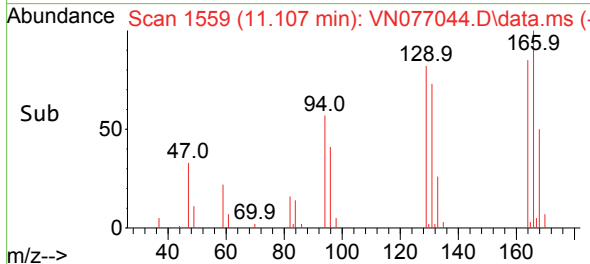
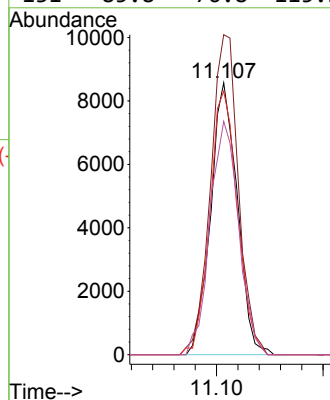
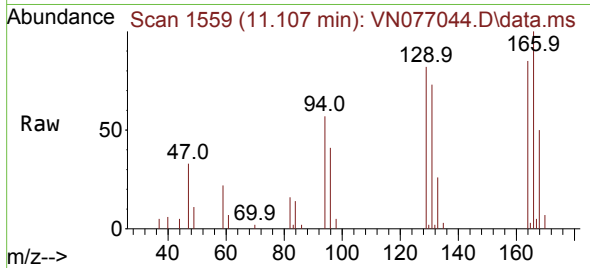




#64
Tetrachloroethene
Concen: 3.246 ug/l
RT: 11.107 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077044.D
Acq: 17 Mar 2023 19:47

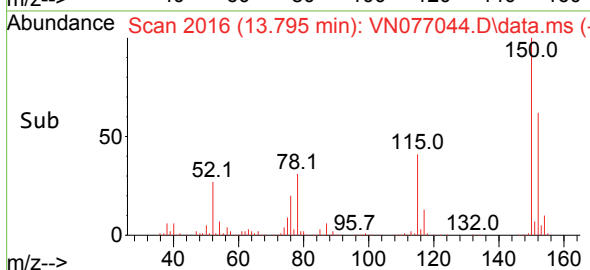
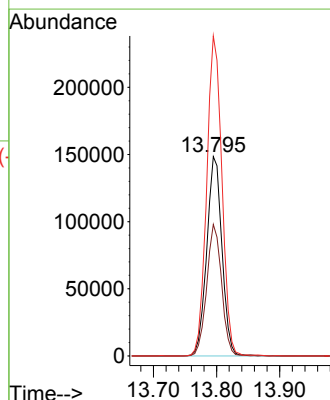
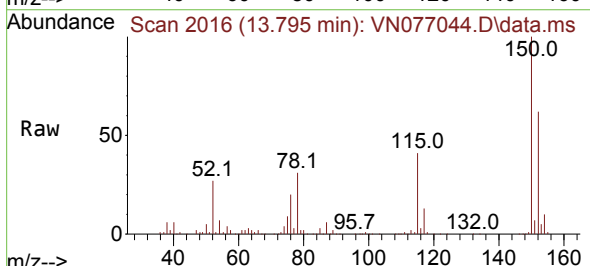
Instrument :
MSVOA_N
ClientSampleId :
RE137-20230313

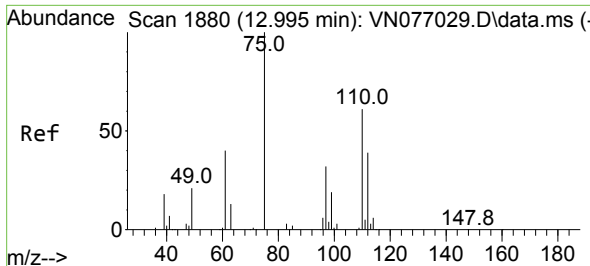
Tgt Ion:164	Resp:	14918
Ion Ratio	Lower	Upper
164	100	
166	117.7	101.9 152.9
129	96.9	82.6 123.8
131	85.8	76.8 115.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077044.D
Acq: 17 Mar 2023 19:47

Tgt Ion:152	Resp:	248992
Ion Ratio	Lower	Upper
152	100	
115	64.4	31.9 95.7
150	160.4	0.0 348.0

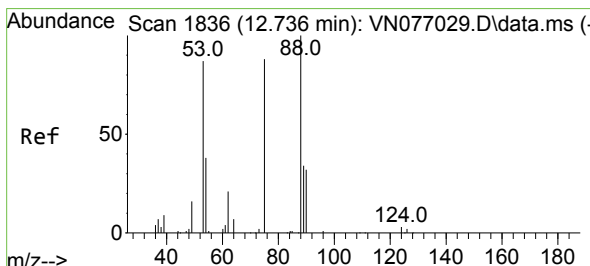
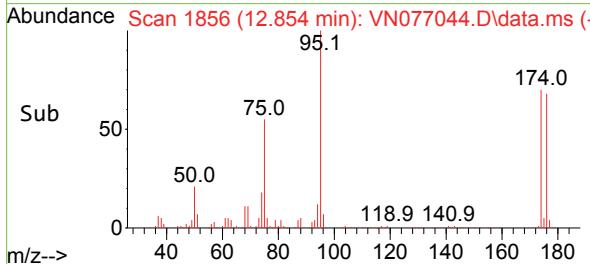
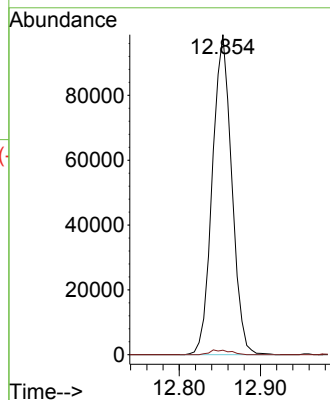
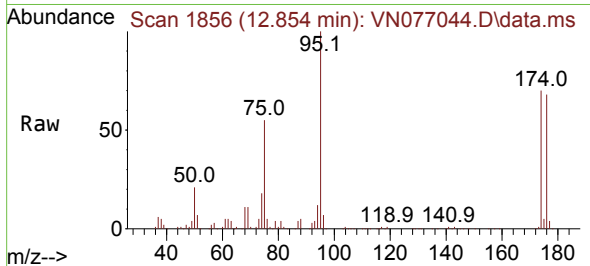




#76
1,2,3-Trichloropropane
Concen: 25.461 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077044.D
Acq: 17 Mar 2023 19:47

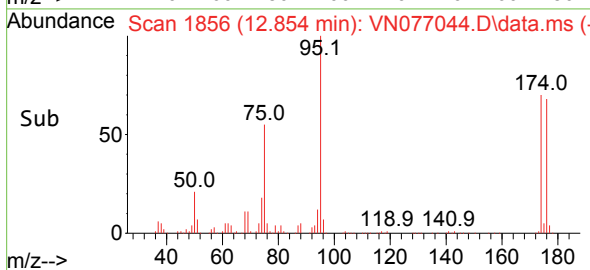
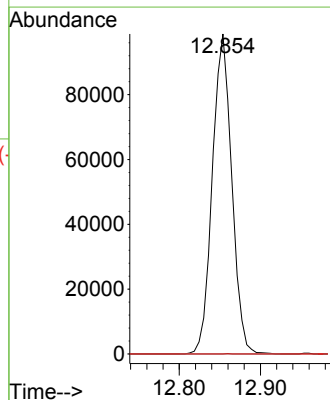
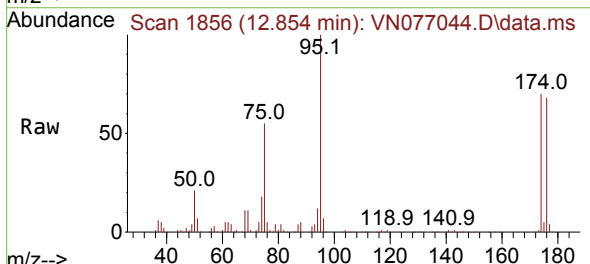
Instrument :
MSVOA_N
ClientSampleId :
RE137-20230313

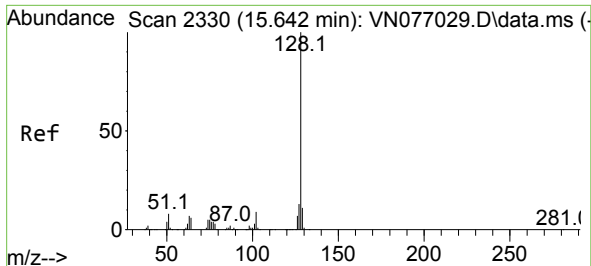
Tgt Ion: 75 Resp: 163981
Ion Ratio Lower Upper
75 100
77 1.6 107.3 322.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 70.083 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN077044.D
Acq: 17 Mar 2023 19:47

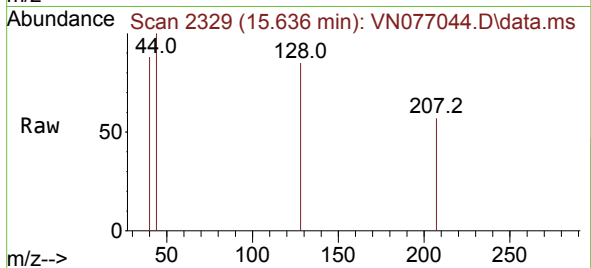
Tgt Ion: 75 Resp: 163981
Ion Ratio Lower Upper
75 100
53 0.0 80.8 121.2#
89 0.0 34.2 51.4#





#95
Naphthalene
Concen: 1.963 ug/l
RT: 15.636 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN077044.D
Acq: 17 Mar 2023 19:47

Instrument :
MSVOA_N
ClientSampleId :
RE137-20230313



Tgt Ion:128 Resp: 879
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.6 13.0#

