

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051823\
 Data File : VN077749.D
 Acq On : 18 May 2023 20:14
 Operator : JC\MD
 Sample : 02834-13
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D2-20230517

Quant Time: May 29 08:55:52 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

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

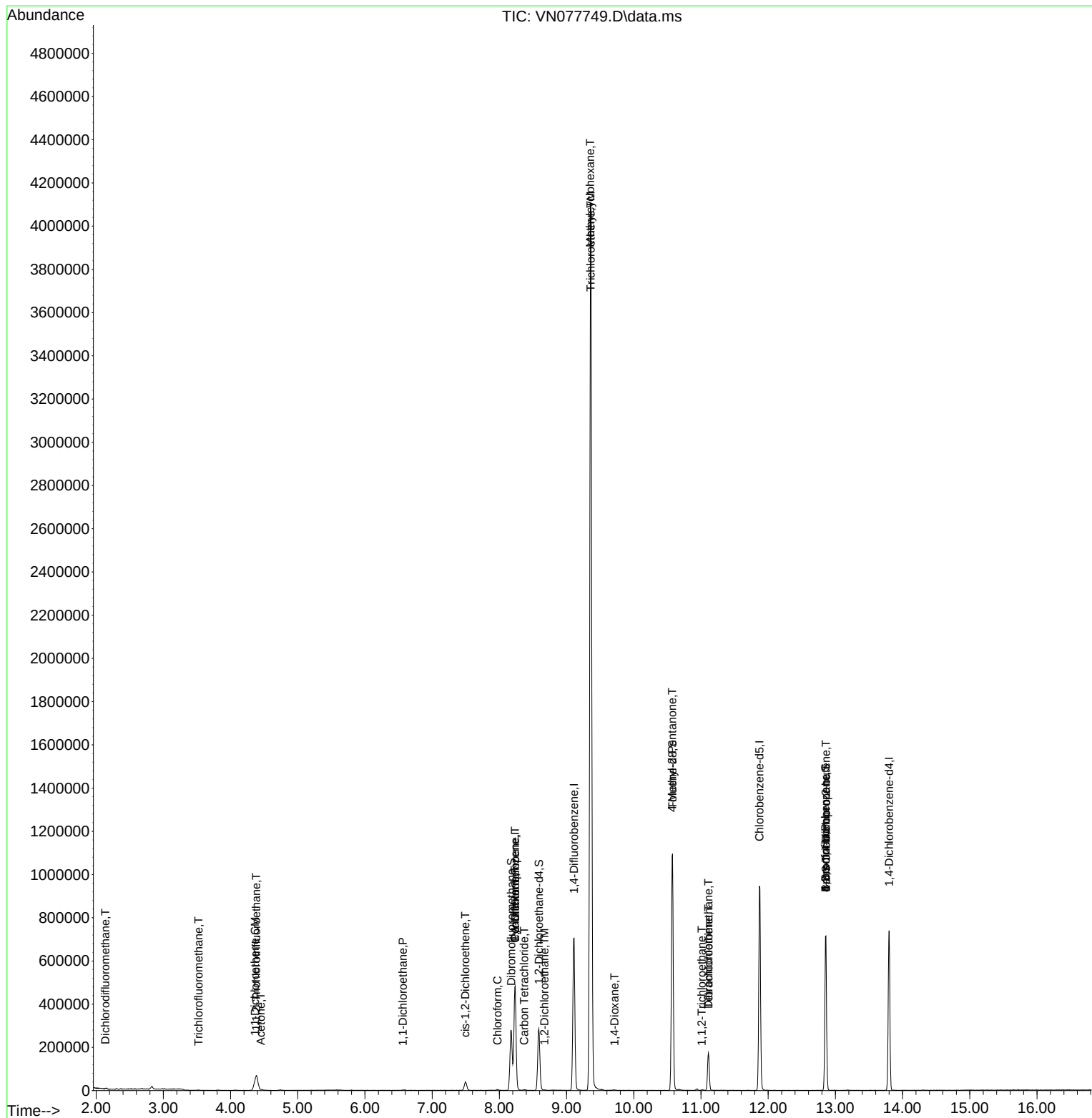
Internal Standards						
1) Pentafluorobenzene	8.235	168	353936	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	635904	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	571076	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	198268	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	238406	45.018	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	90.040%		
35) Dibromofluoromethane	8.177	113	202607	48.860	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.720%		
50) Toluene-d8	10.576	98	797116	49.942	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.880%		
62) 4-Bromofluorobenzene	12.853	95	261816	46.446	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	92.900%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	2048	0.508	ug/l	75
3) Chloromethane	2.359	50	1234	Below Cal	#	69
7) Trichlorofluoromethane	3.524	101	1790	0.253	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.383	101	40836	10.426	ug/l	94
12) 1,1-Dichloroethene	4.365	96	11876	3.190	ug/l	86
13) Acrolein	4.195	56	227	Below Cal	#	62
16) Acetone	4.447	43	2180	1.308	ug/l	# 67
20) Methylene Chloride	5.277	84	114	Below Cal	#	38
24) 1,1-Dichloroethane	6.565	63	1590	0.202	ug/l	# 81
27) cis-1,2-Dichloroethene	7.494	96	24297	4.846	ug/l	95
30) Chloroform	7.971	83	3850	0.446	ug/l	# 68
31) Cyclohexane	8.230	56	8836	1.228	ug/l	# 36
36) 1,1-Dichloropropene	8.235	75	29982	4.943	ug/l	# 48
38) Carbon Tetrachloride	8.371	117	1384	0.226	ug/l	# 91
39) Methylcyclohexane	9.353	83	19263	2.594	ug/l	# 1
42) 1,2-Dichloroethane	8.671	62	1435	0.221	ug/l	# 73
44) Trichloroethene	9.359	130	1465587	323.392	ug/l	98
49) 1,4-Dioxane	9.712	88	2690	34.020	ug/l	# 83
51) 4-Methyl-2-Pentanone	10.571	43	3673	0.700	ug/l	# 1
55) 1,1,2-Trichloroethane	11.012	97	1266	0.286	ug/l	# 71
60) Dibromochloromethane	11.112	129	39892	8.734	ug/l	# 11
64) Tetrachloroethene	11.112	164	37694	9.438	ug/l	93
71) Bromoform	12.853	173	1376	0.483	ug/l	# 28
76) 1,2,3-Trichloropropane	12.859	75	140040	28.204	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.859	75	140040	90.153	ug/l	# 15

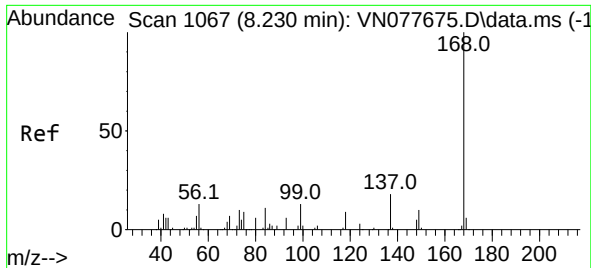
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 1

Delta R.T. 0.005 min

Lab File: VN077749.D

Acq: 18 May 2023 20:14

Instrument :

MSVOA_N

ClientSampleId :

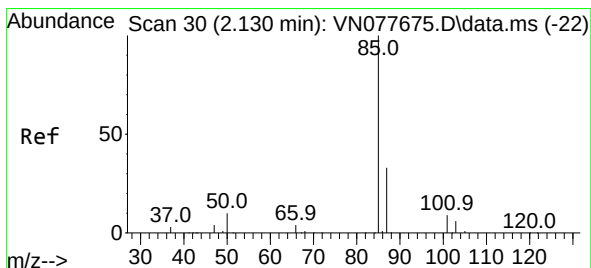
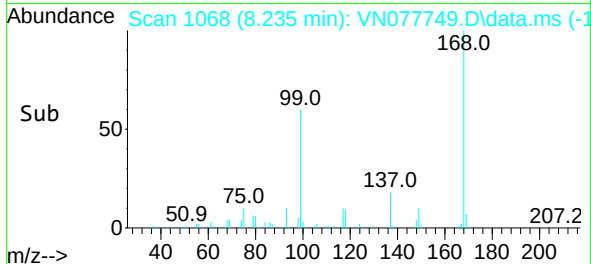
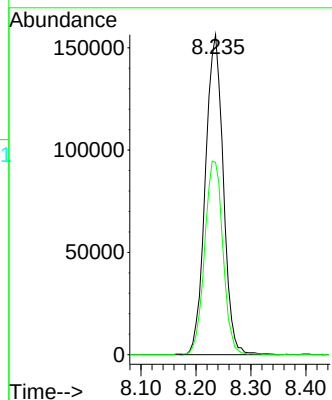
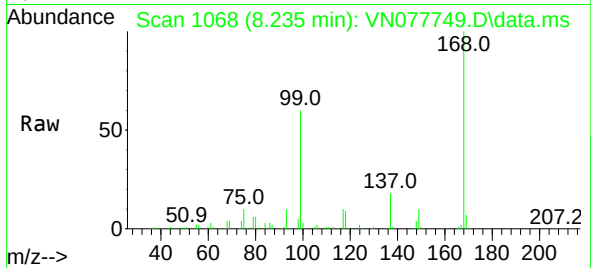
RE125D2-20230517

Tgt Ion:168 Resp: 353936

Ion Ratio Lower Upper

168 100

99 60.0 53.0 79.6



#2

Dichlorodifluoromethane

Concen: 0.508 ug/l

RT: 2.136 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN077749.D

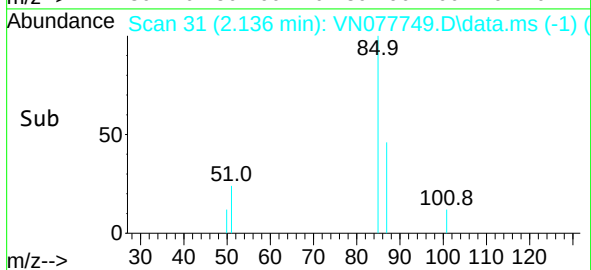
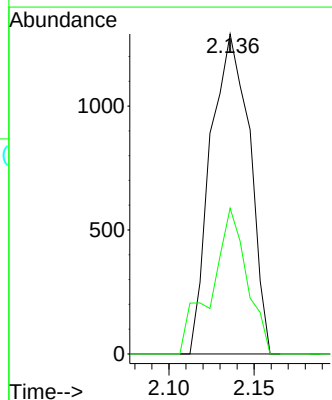
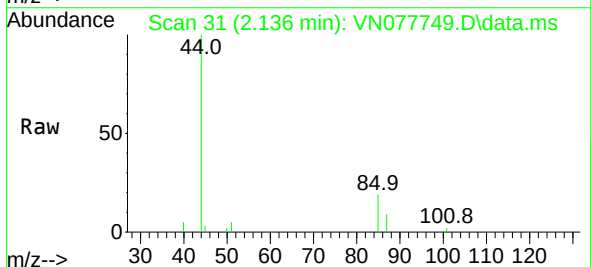
Acq: 18 May 2023 20:14

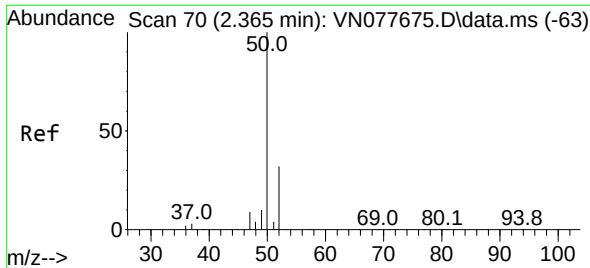
Tgt Ion: 85 Resp: 2048

Ion Ratio Lower Upper

85 100

87 45.5 15.8 47.4

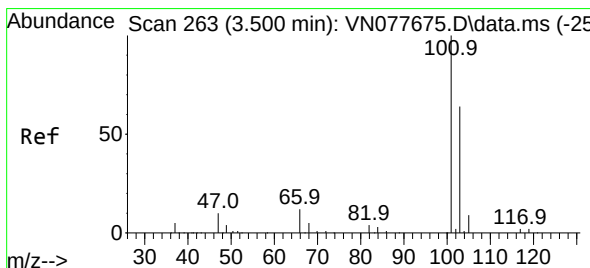
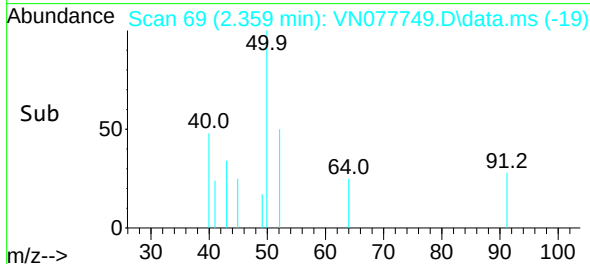
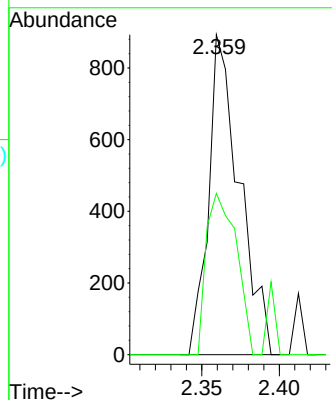
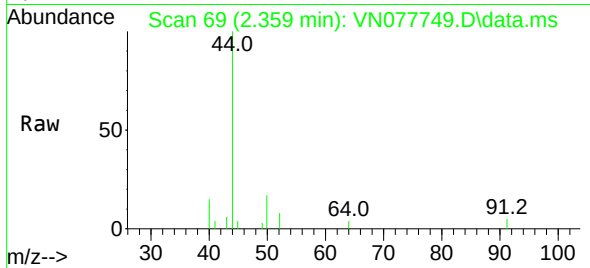




#3
Chloromethane
Concen: Below Cal
RT: 2.359 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN077749.D
Acq: 18 May 2023 20:14

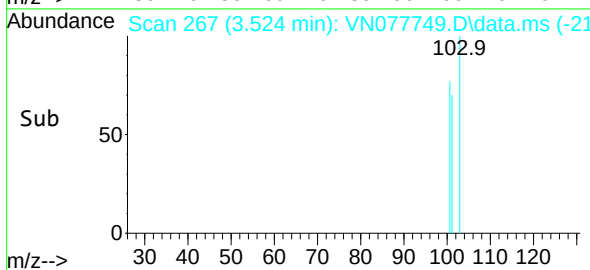
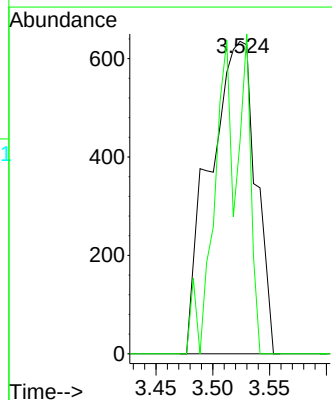
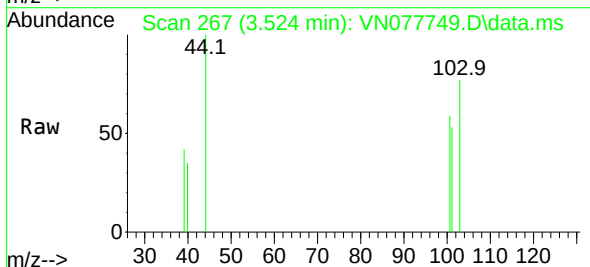
Instrument :
MSVOA_N
ClientSampleId :
RE125D2-20230517

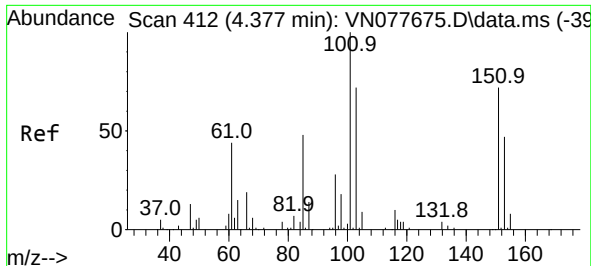
Tgt Ion: 50 Resp: 1234
Ion Ratio Lower Upper
50 100
52 50.4 26.5 39.7#



#7
Trichlorofluoromethane
Concen: 0.253 ug/l
RT: 3.524 min Scan# 267
Delta R.T. 0.024 min
Lab File: VN077749.D
Acq: 18 May 2023 20:14

Tgt Ion: 101 Resp: 1790
Ion Ratio Lower Upper
101 100
103 68.0 50.7 76.1

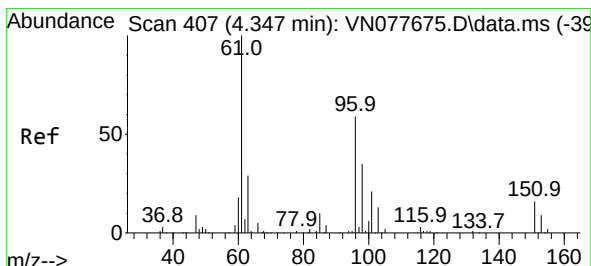
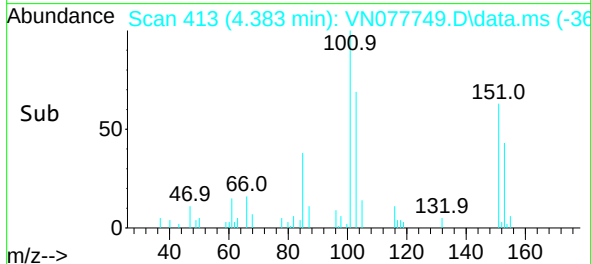
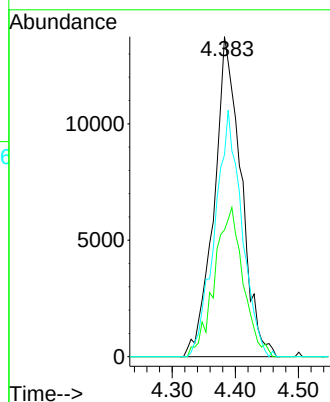
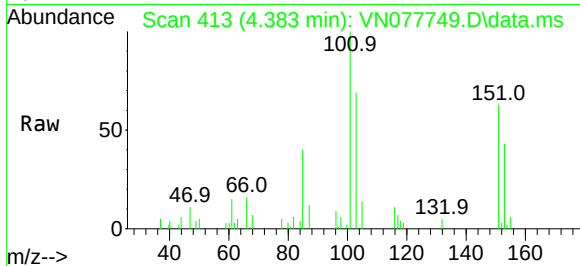




#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.426 ug/l
RT: 4.383 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN077749.D
Acq: 18 May 2023 20:14

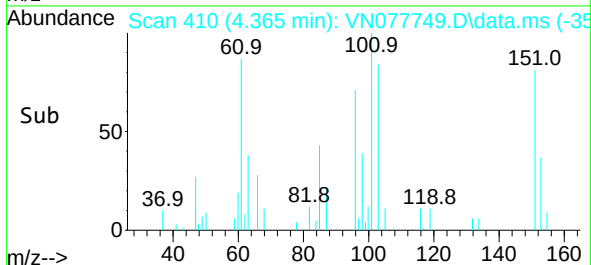
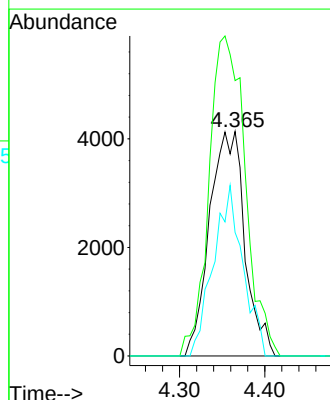
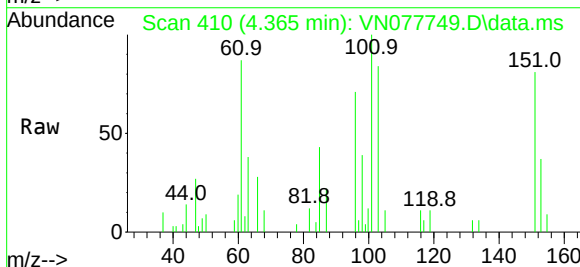
Instrument :
MSVOA_N
ClientSampleId :
RE125D2-20230517

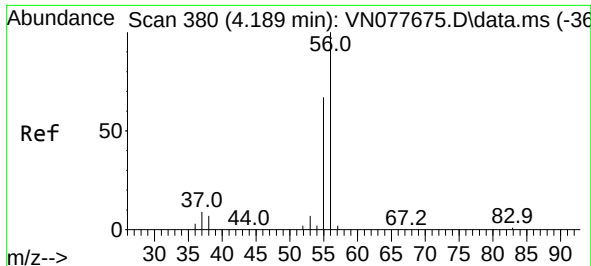
Tgt Ion:101 Resp: 40836
Ion Ratio Lower Upper
101 100
85 49.4 36.6 55.0
151 77.2 57.6 86.4



#12
1,1-Dichloroethene
Concen: 3.190 ug/l
RT: 4.365 min Scan# 410
Delta R.T. 0.018 min
Lab File: VN077749.D
Acq: 18 May 2023 20:14

Tgt Ion: 96 Resp: 11876
Ion Ratio Lower Upper
96 100
61 122.7 112.7 169.1
98 55.1 51.2 76.8

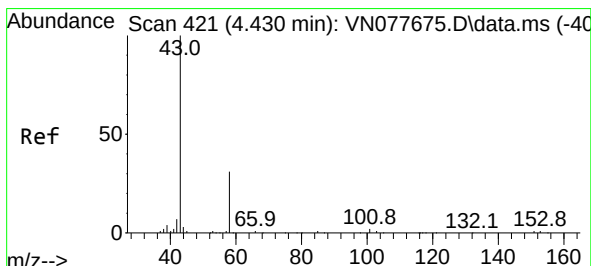
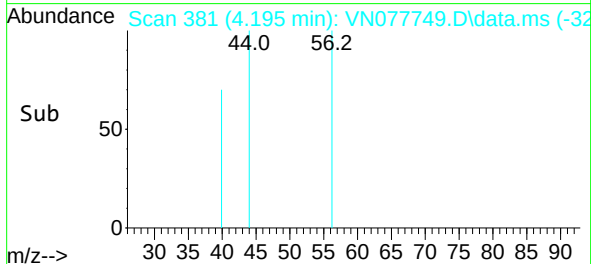
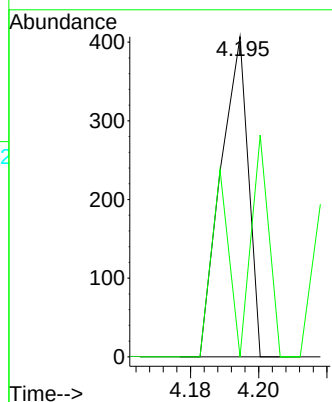
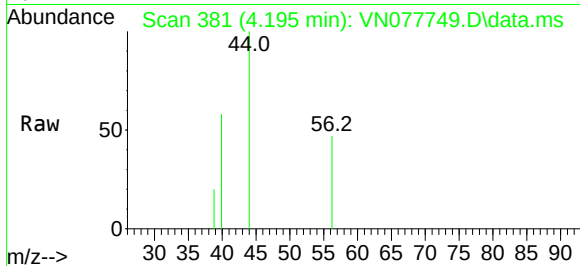




#13
Acrolein
Concen: Below Cal
RT: 4.195 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN077749.D
Acq: 18 May 2023 20:14

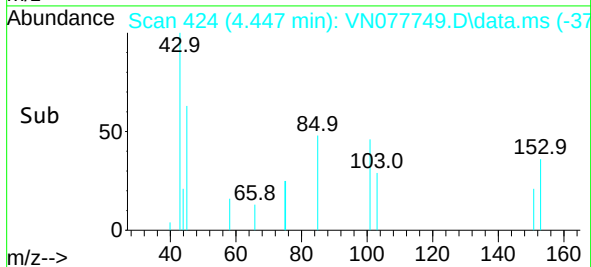
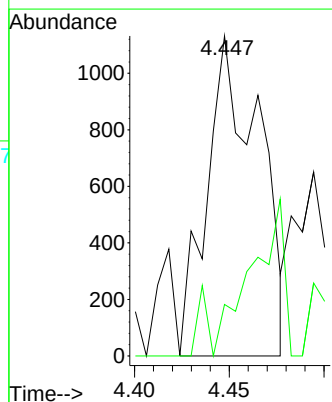
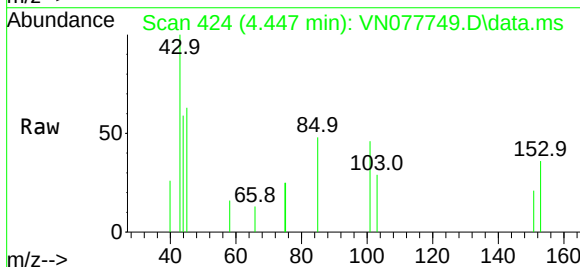
Instrument :
MSVOA_N
ClientSampleId :
RE125D2-20230517

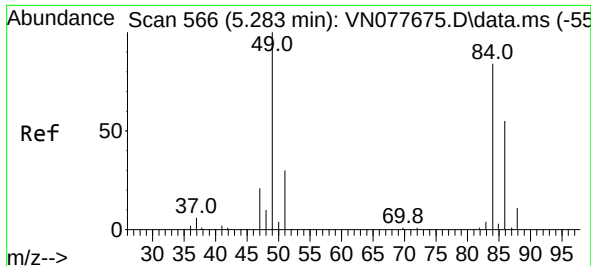
Tgt Ion: 56 Resp: 227
Ion Ratio Lower Upper
56 100
55 37.0 54.5 81.7#



#16
Acetone
Concen: 1.308 ug/l
RT: 4.447 min Scan# 424
Delta R.T. 0.017 min
Lab File: VN077749.D
Acq: 18 May 2023 20:14

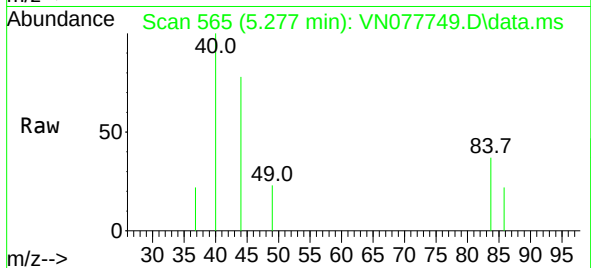
Tgt Ion: 43 Resp: 2180
Ion Ratio Lower Upper
43 100
58 16.1 28.0 42.0#



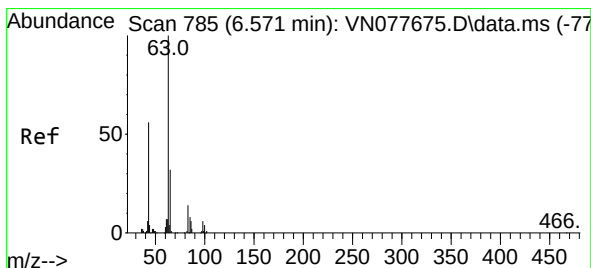
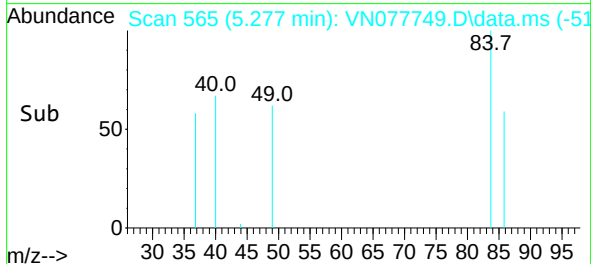
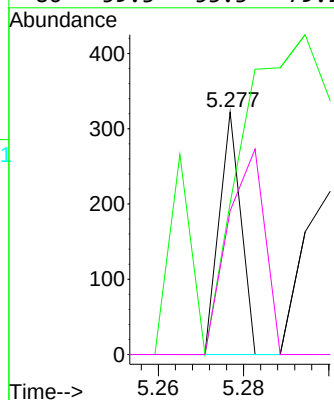


#20
Methylene Chloride
Concen: Below Cal
RT: 5.277 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN077749.D
Acq: 18 May 2023 20:14

Instrument :
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ClientSampleId :
RE125D2-20230517

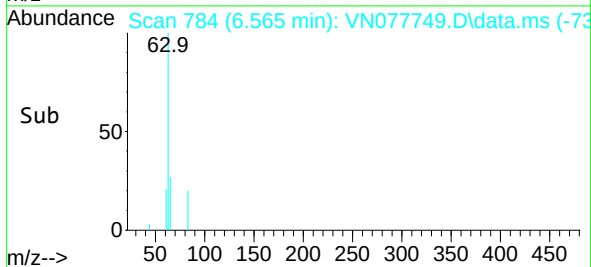
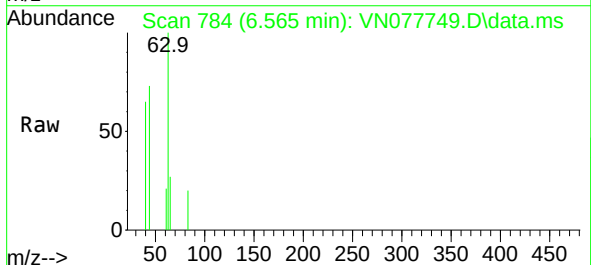
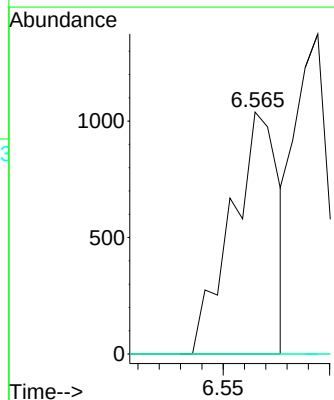


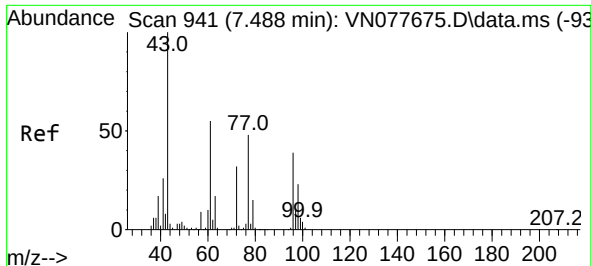
Tgt Ion:	84	Resp:	114
Ion	Ratio	Lower	Upper
84	100		
49	0.0	79.7	119.5#
51	0.0	25.2	37.8#
86	59.3	53.3	79.9



#24
1,1-Dichloroethane
Concen: 0.202 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.006 min
Lab File: VN077749.D
Acq: 18 May 2023 20:14

Tgt Ion:	63	Resp:	1590
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.9	11.7#
100	0.0	2.5	7.4#





#27

cis-1,2-Dichloroethene

Concen: 4.846 ug/l

RT: 7.494 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN077749.D

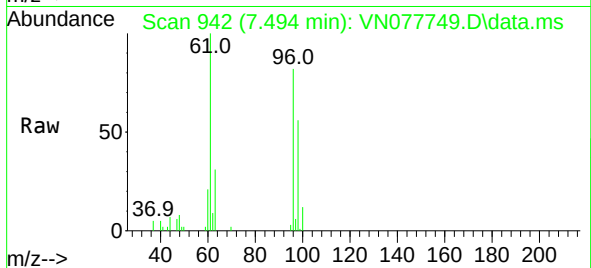
Acq: 18 May 2023 20:14

Instrument :

MSVOA_N

ClientSampleId :

RE125D2-20230517



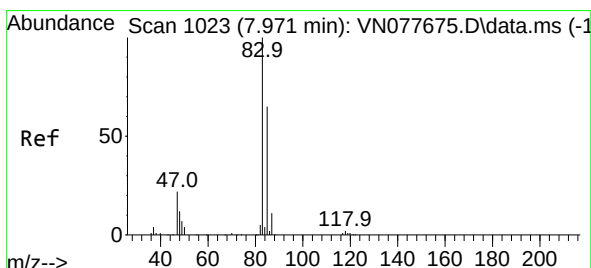
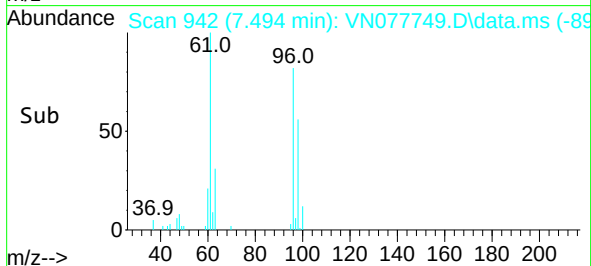
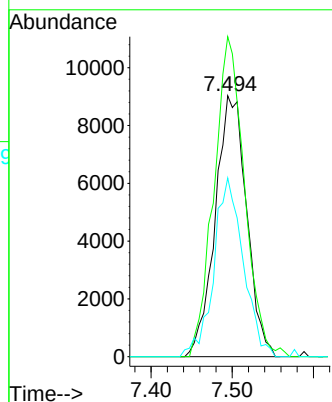
Tgt Ion: 96 Resp: 24297

Ion Ratio Lower Upper

96 100

61 119.1 0.0 255.2

98 64.2 0.0 128.8



#30

Chloroform

Concen: 0.446 ug/l

RT: 7.971 min Scan# 1023

Delta R.T. -0.000 min

Lab File: VN077749.D

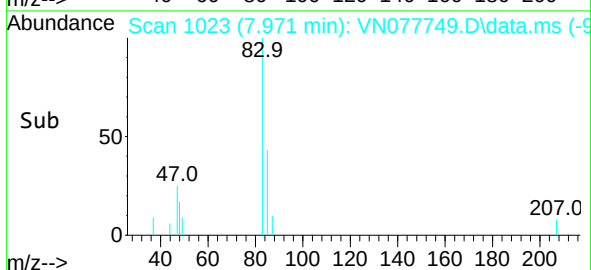
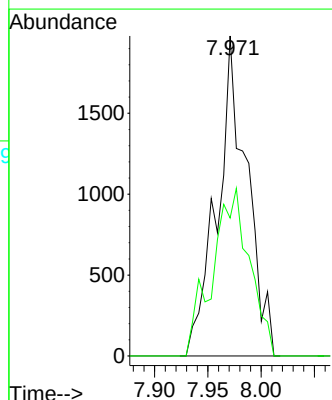
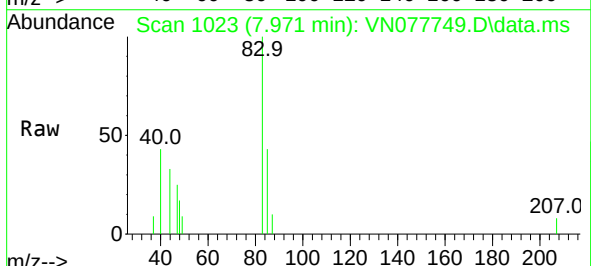
Acq: 18 May 2023 20:14

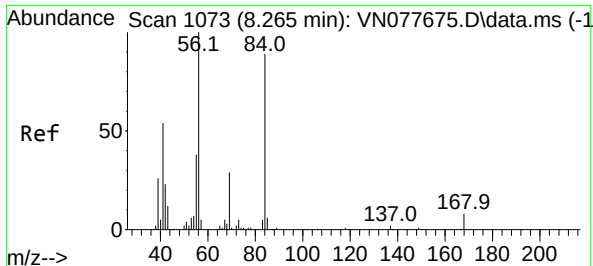
Tgt Ion: 83 Resp: 3850

Ion Ratio Lower Upper

83 100

85 43.1 55.4 83.0#





#31

Cyclohexane

Concen: 1.228 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.035 min

Lab File: VN077749.D

Acq: 18 May 2023 20:14

Instrument :

MSVOA_N

ClientSampleId :

RE125D2-20230517

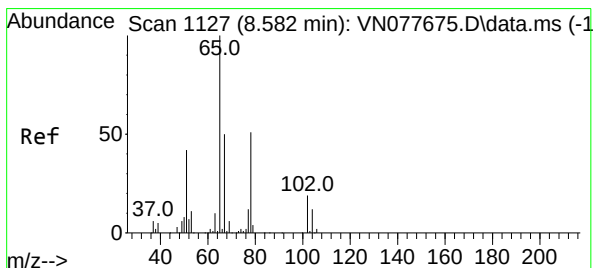
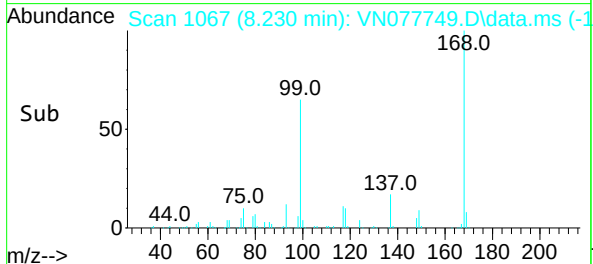
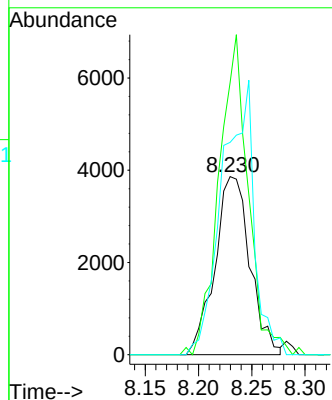
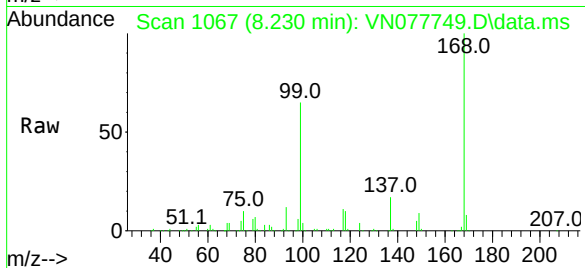
Tgt Ion: 56 Resp: 8836

Ion Ratio Lower Upper

56 100

69 152.8 26.8 40.2#

84 119.2 81.8 122.6



#33

1,2-Dichloroethane-d4

Concen: 45.018 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VN077749.D

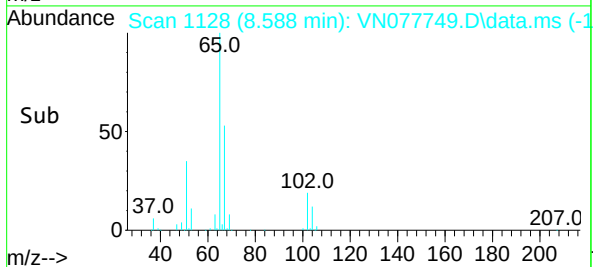
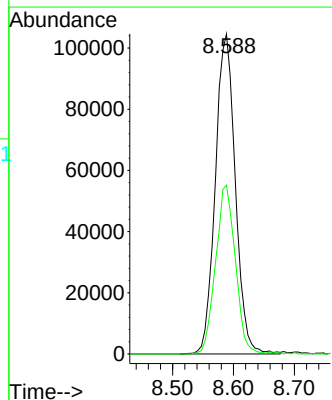
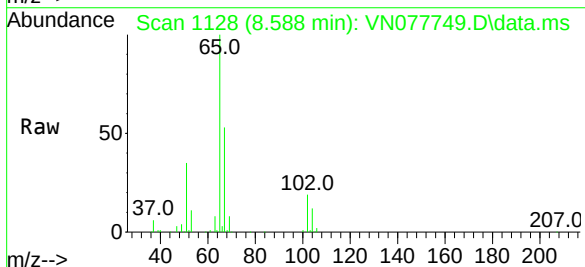
Acq: 18 May 2023 20:14

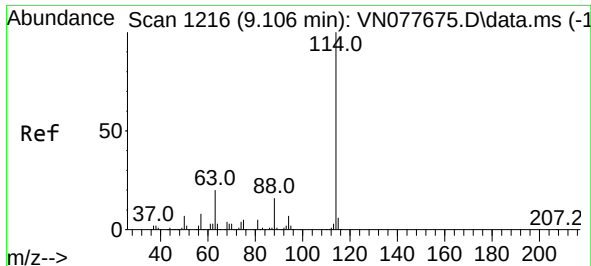
Tgt Ion: 65 Resp: 238406

Ion Ratio Lower Upper

65 100

67 51.9 0.0 106.6

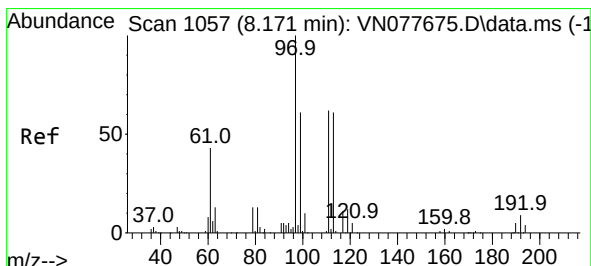
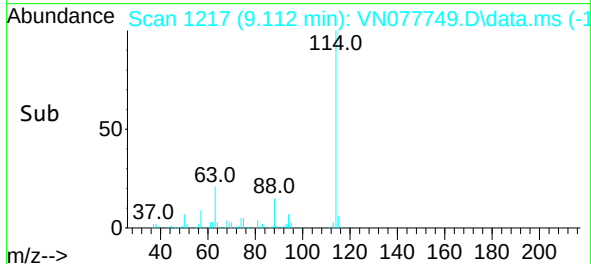
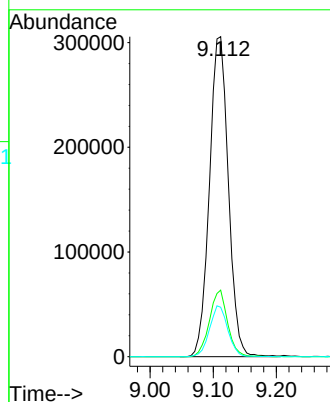
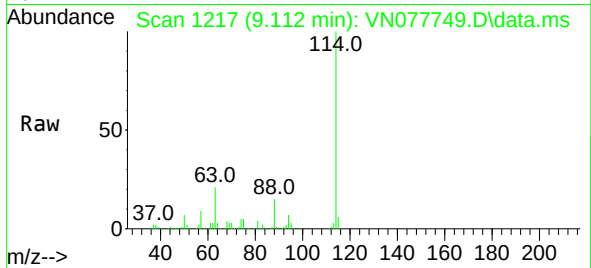




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.112 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN077749.D
Acq: 18 May 2023 20:14

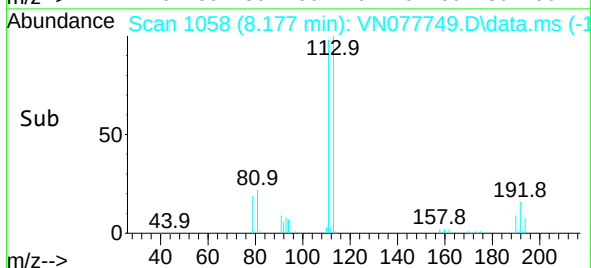
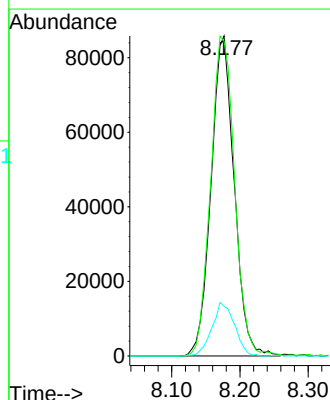
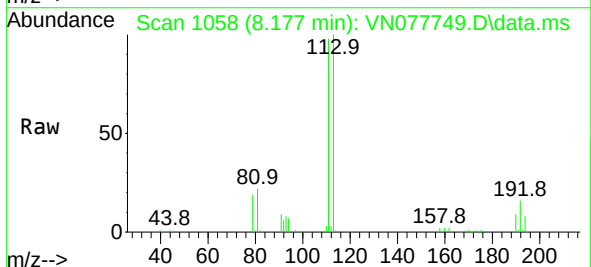
Instrument :
MSVOA_N
ClientSampleId :
RE125D2-20230517

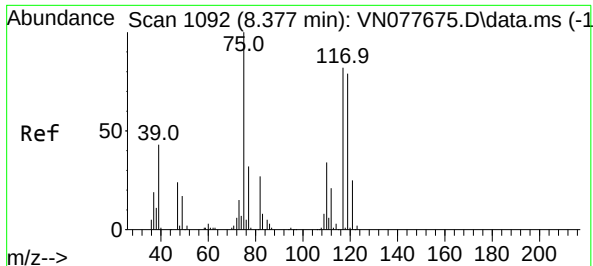
Tgt Ion:114 Resp: 635904
Ion Ratio Lower Upper
114 100
63 20.8 0.0 36.4
88 15.4 0.0 30.6



#35
Dibromofluoromethane
Concen: 48.860 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN077749.D
Acq: 18 May 2023 20:14

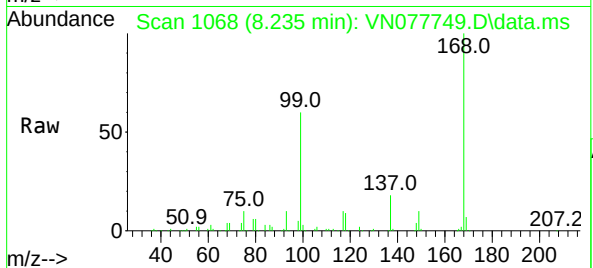
Tgt Ion:113 Resp: 202607
Ion Ratio Lower Upper
113 100
111 103.5 82.6 123.8
192 16.3 12.7 19.1



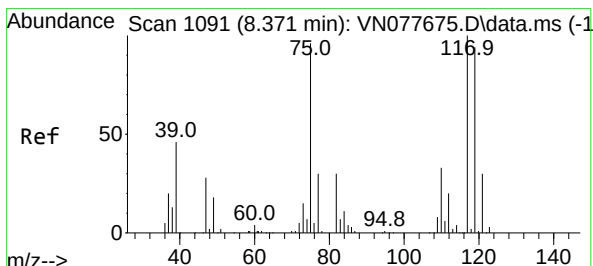
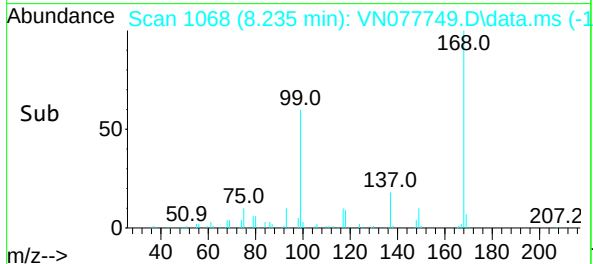
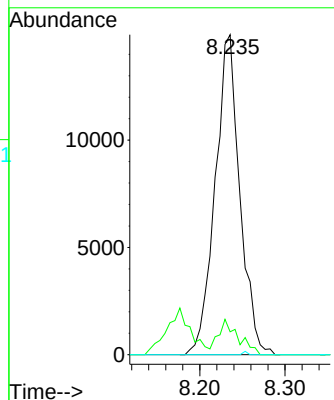


#36
1,1-Dichloropropene
Concen: 4.943 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.142 min
Lab File: VN077749.D
Acq: 18 May 2023 20:14

Instrument :
MSVOA_N
ClientSampleId :
RE125D2-20230517

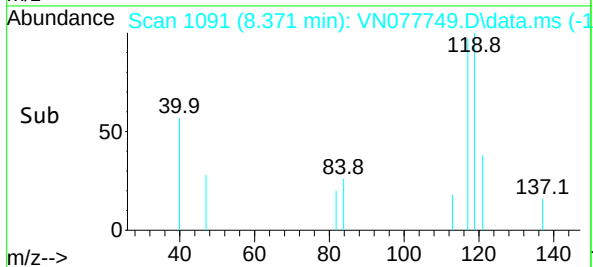
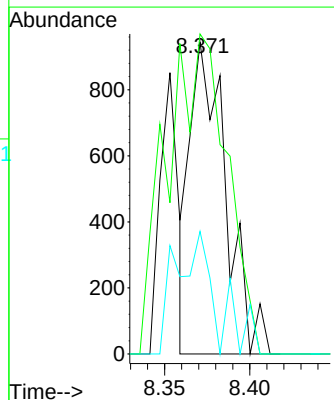
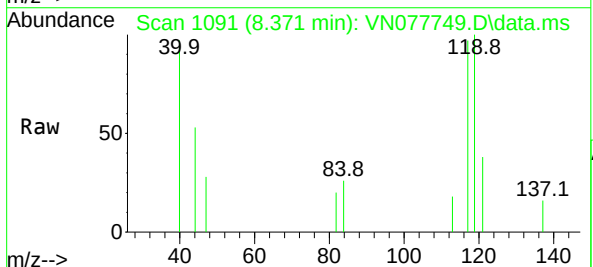


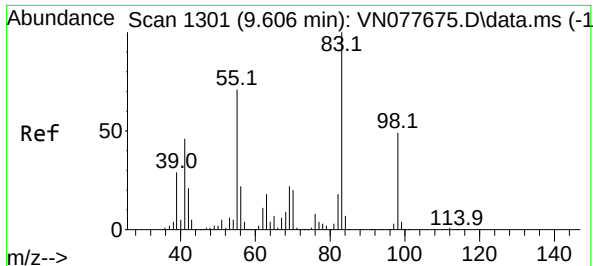
Tgt Ion: 75 Resp: 29982
Ion Ratio Lower Upper
75 100
110 8.9 19.1 57.3#
77 0.0 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 0.226 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN077749.D
Acq: 18 May 2023 20:14

Tgt Ion: 117 Resp: 1384
Ion Ratio Lower Upper
117 100
119 102.6 77.3 115.9
121 39.3 23.3 34.9#





#39

Methylcyclohexane

Concen: 2.594 ug/l

RT: 9.353 min Scan# 11258

Delta R.T. -0.253 min

Lab File: VN077749.D

Acq: 18 May 2023 20:14

Instrument :

MSVOA_N

ClientSampleId :

RE125D2-20230517

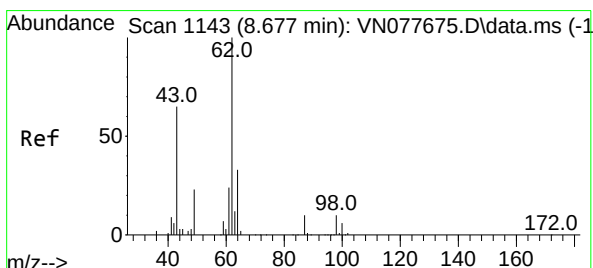
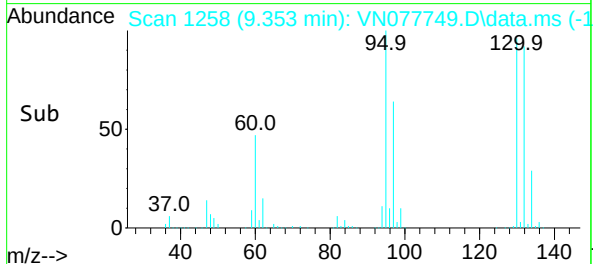
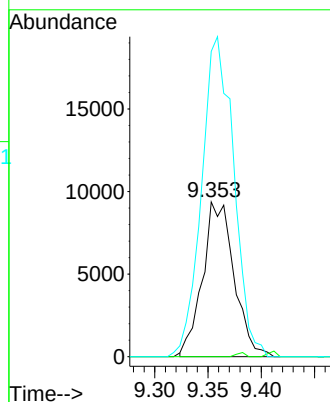
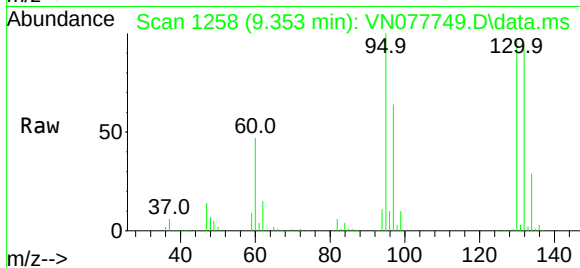
Tgt Ion: 83 Resp: 19263

Ion Ratio Lower Upper

83 100

55 0.0 49.1 73.7#

98 197.4 40.6 61.0#



#42

1,2-Dichloroethane

Concen: 0.221 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.006 min

Lab File: VN077749.D

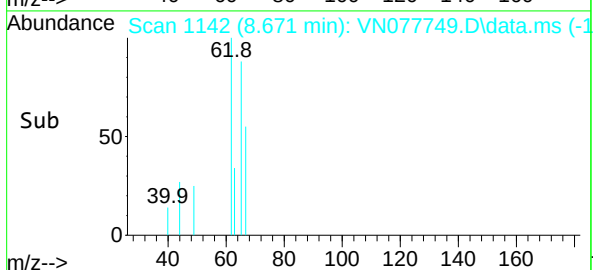
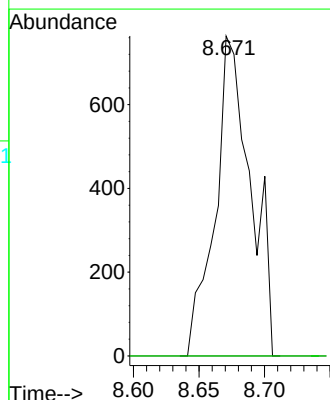
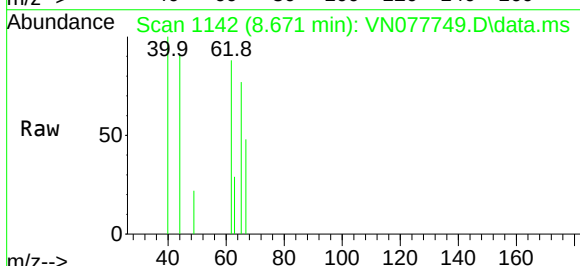
Acq: 18 May 2023 20:14

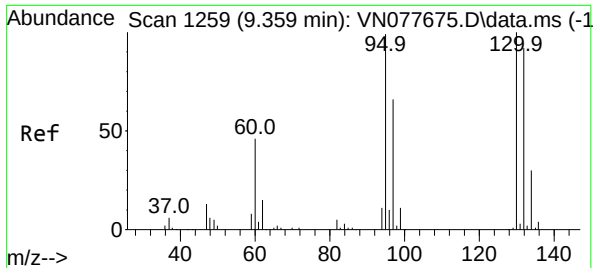
Tgt Ion: 62 Resp: 1435

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

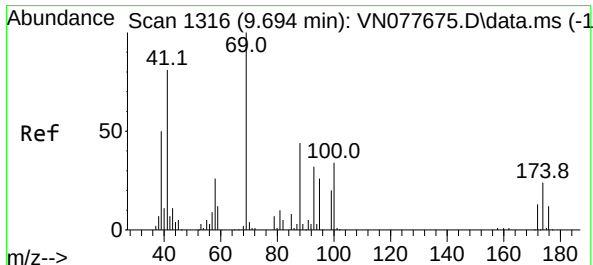
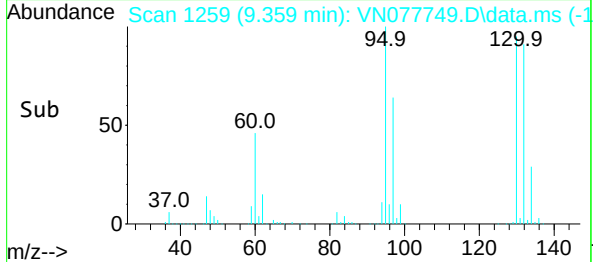
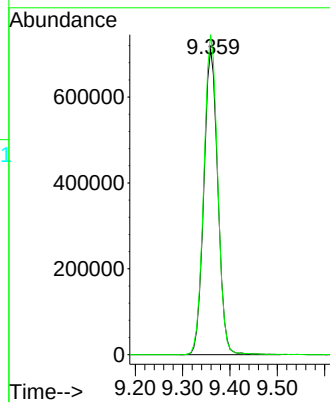
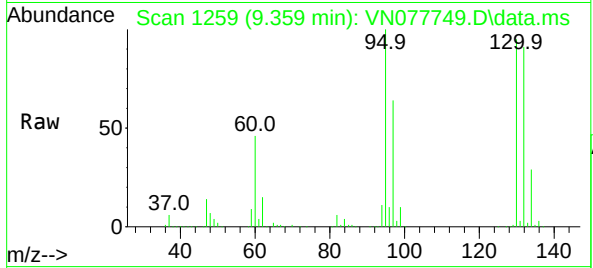




#44
Trichloroethene
Concen: 323.392 ug/l
RT: 9.359 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077749.D
Acq: 18 May 2023 20:14

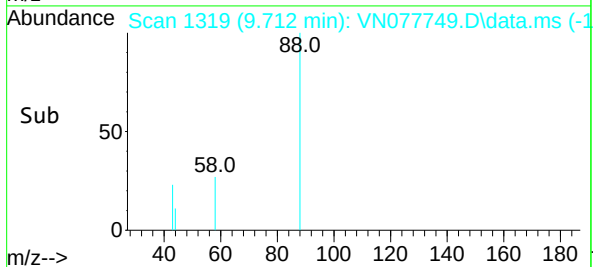
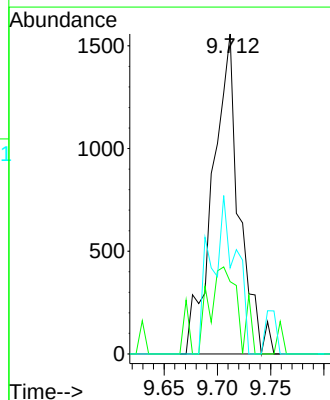
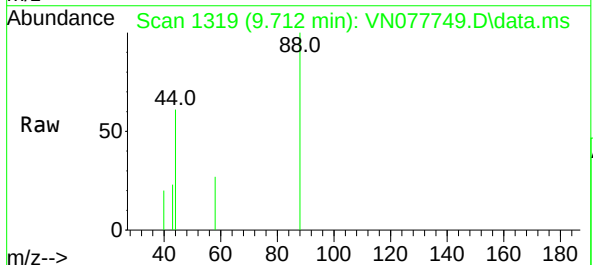
Instrument :
MSVOA_N
ClientSampleId :
RE125D2-20230517

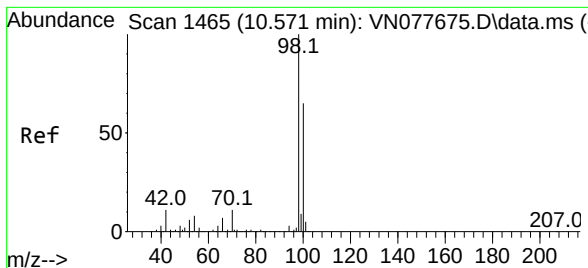
Tgt Ion:130 Resp: 1465587
Ion Ratio Lower Upper
130 100
95 104.8 0.0 204.6



#49
1,4-Dioxane
Concen: 34.020 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. 0.018 min
Lab File: VN077749.D
Acq: 18 May 2023 20:14

Tgt Ion: 88 Resp: 2690
Ion Ratio Lower Upper
88 100
43 29.9 17.0 25.6#
58 46.1 47.0 70.4#





#50

Toluene-d8

Concen: 49.942 ug/l

RT: 10.576 min Scan# 1465

Delta R.T. 0.005 min

Lab File: VN077749.D

Acq: 18 May 2023 20:14

Instrument :

MSVOA_N

ClientSampleId :

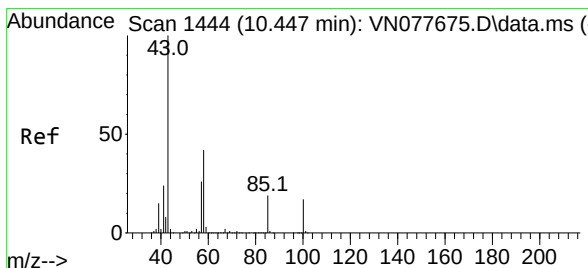
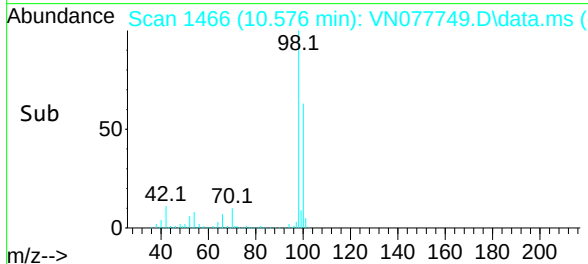
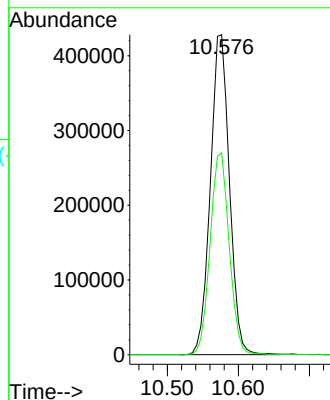
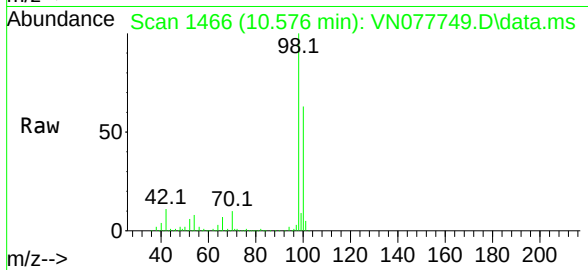
RE125D2-20230517

Tgt Ion: 98 Resp: 797116

Ion Ratio Lower Upper

98 100

100 63.3 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 0.700 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.124 min

Lab File: VN077749.D

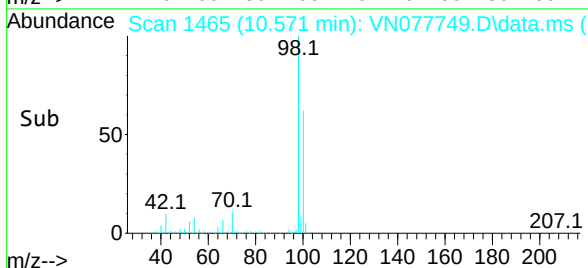
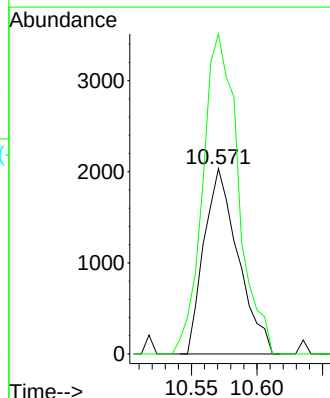
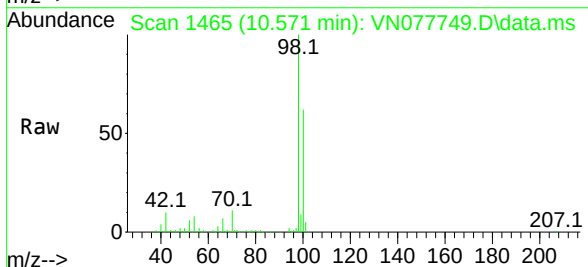
Acq: 18 May 2023 20:14

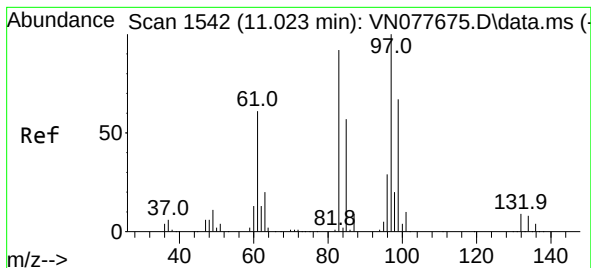
Tgt Ion: 43 Resp: 3673

Ion Ratio Lower Upper

43 100

58 180.5 36.6 54.8#





#55

1,1,2-Trichloroethane

Concen: 0.286 ug/l

RT: 11.012 min Scan# 11

Delta R.T. -0.011 min

Lab File: VN077749.D

Acq: 18 May 2023 20:14

Instrument :

MSVOA_N

ClientSampleId :

RE125D2-20230517

Tgt Ion: 97 Resp: 1266

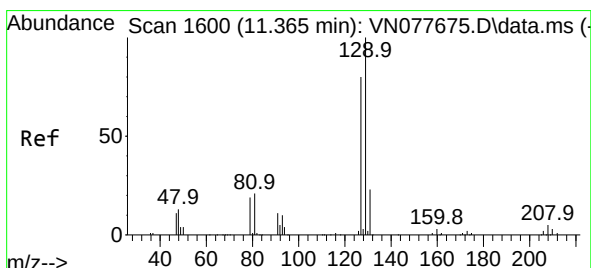
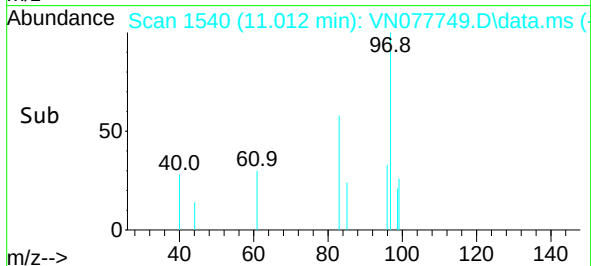
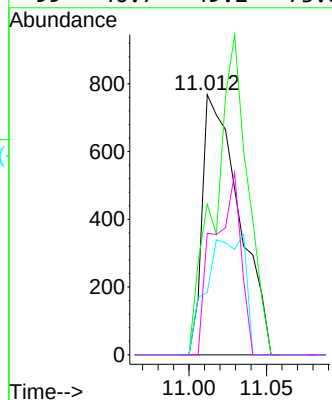
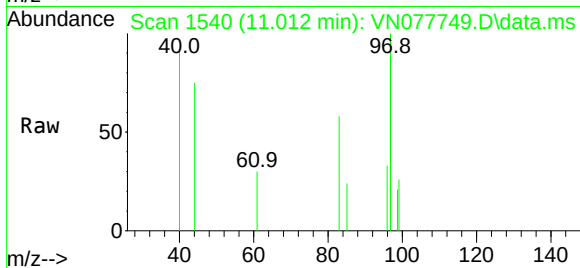
Ion Ratio Lower Upper

97 100

83 57.9 65.1 97.7#

85 24.0 43.4 65.2#

99 46.7 49.2 73.8#



#60

Dibromochloromethane

Concen: 8.734 ug/l

RT: 11.112 min Scan# 1557

Delta R.T. -0.253 min

Lab File: VN077749.D

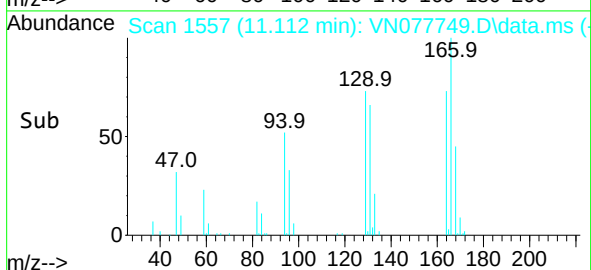
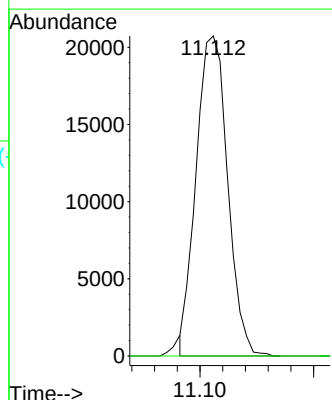
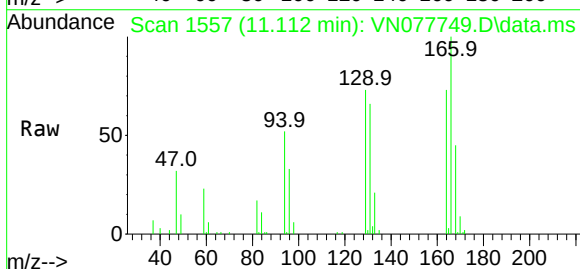
Acq: 18 May 2023 20:14

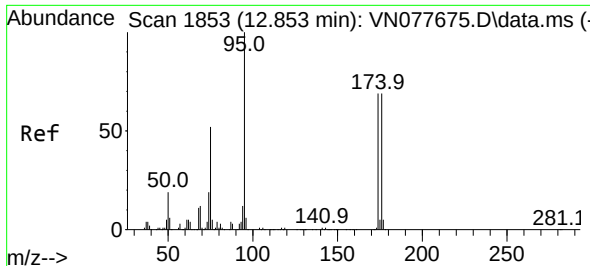
Tgt Ion:129 Resp: 39892

Ion Ratio Lower Upper

129 100

127 0.0 38.6 116.0#

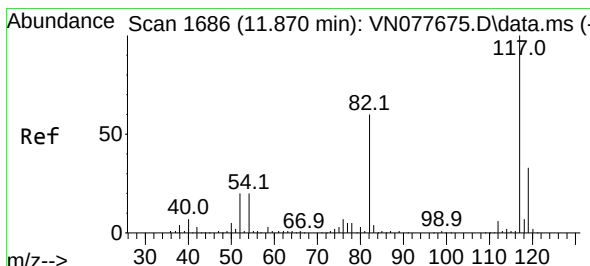
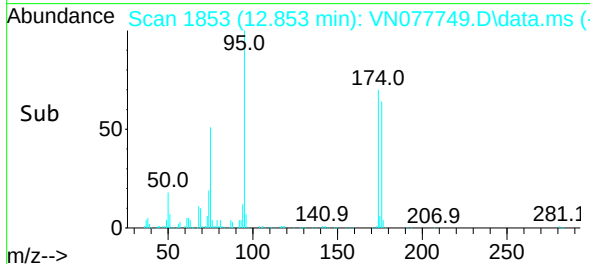
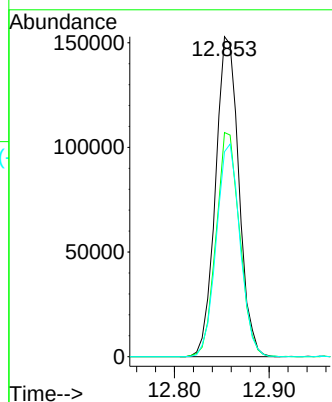
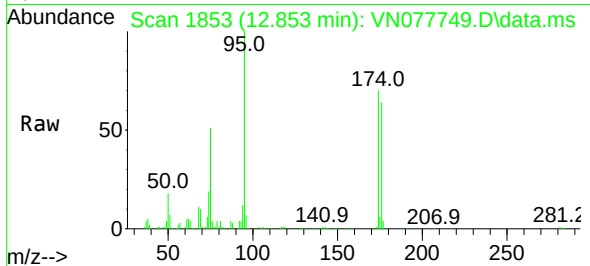




#62
4-Bromofluorobenzene
Concen: 46.446 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN077749.D
Acq: 18 May 2023 20:14

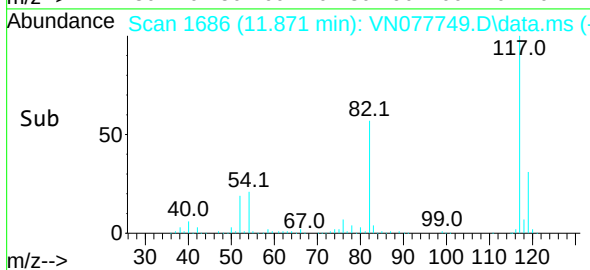
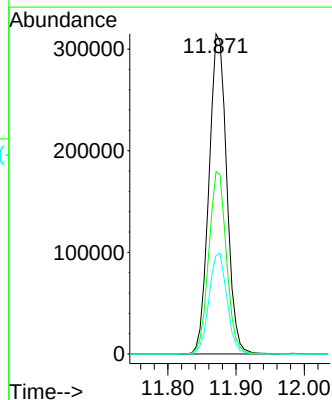
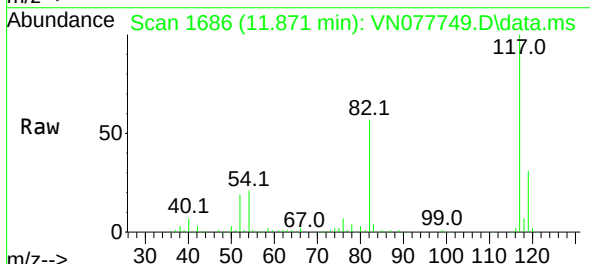
Instrument :
MSVOA_N
ClientSampleId :
RE125D2-20230517

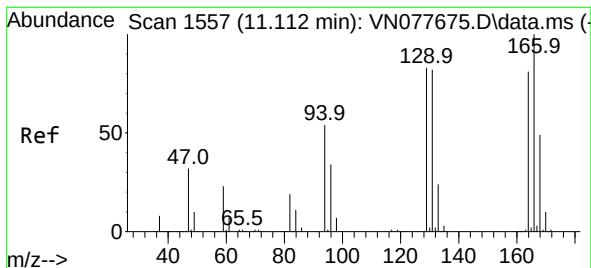
Tgt Ion: 95 Resp: 261816
Ion Ratio Lower Upper
95 100
174 70.7 0.0 143.8
176 67.6 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.001 min
Lab File: VN077749.D
Acq: 18 May 2023 20:14

Tgt Ion: 117 Resp: 571076
Ion Ratio Lower Upper
117 100
82 57.0 44.0 66.0
119 30.8 25.6 38.4





#64

Tetrachloroethene

Concen: 9.438 ug/l

RT: 11.112 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN077749.D

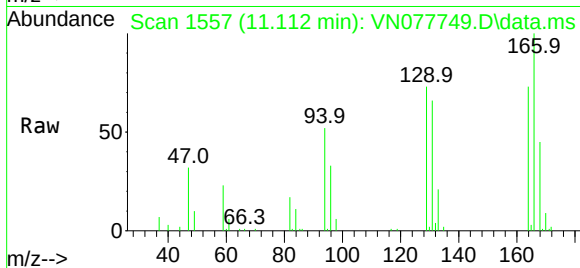
Acq: 18 May 2023 20:14

Instrument :

MSVOA_N

ClientSampleId :

RE125D2-20230517



Tgt Ion:164 Resp: 37694

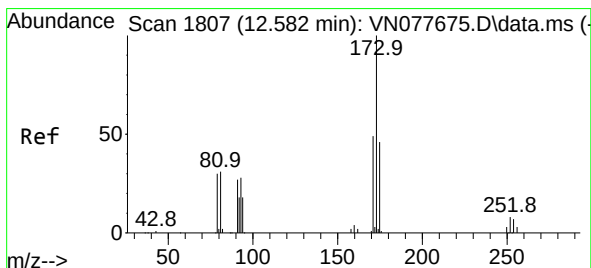
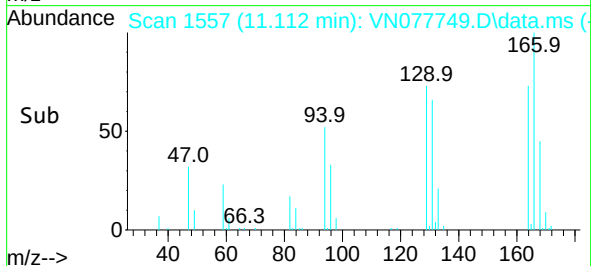
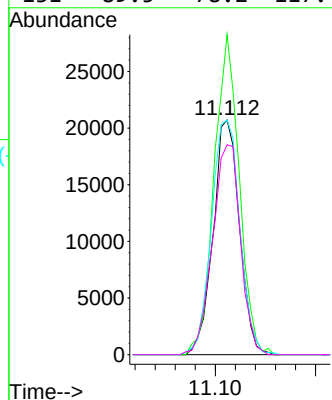
Ion Ratio Lower Upper

164 100

166 136.3 101.4 152.0

129 100.1 82.4 123.6

131 89.5 78.2 117.4



#71

Bromoform

Concen: 0.483 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.271 min

Lab File: VN077749.D

Acq: 18 May 2023 20:14

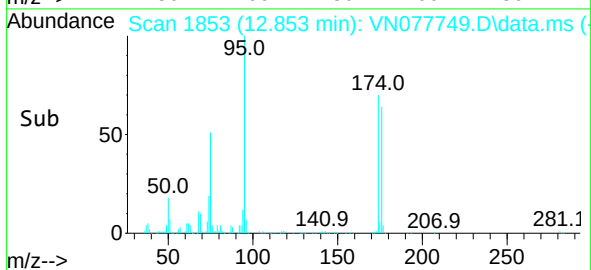
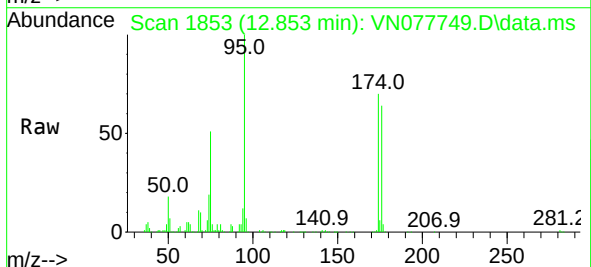
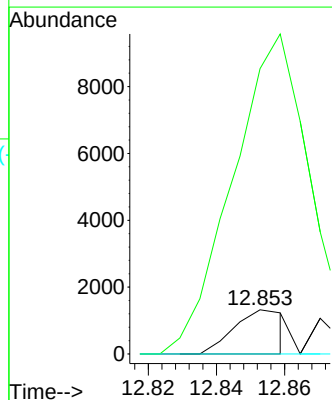
Tgt Ion:173 Resp: 1376

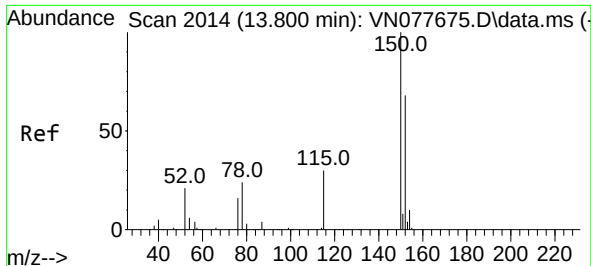
Ion Ratio Lower Upper

173 100

175 0.0 24.3 73.0#

254 0.0 0.0 0.0

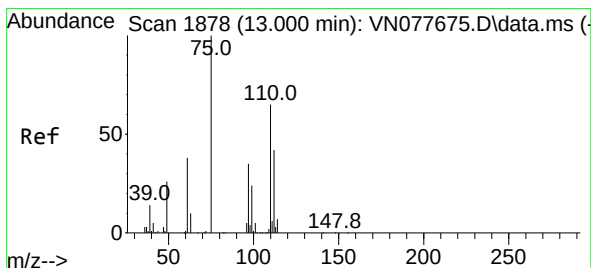
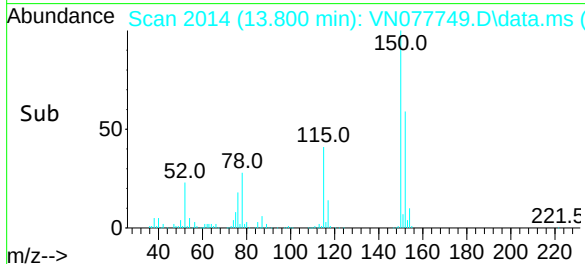
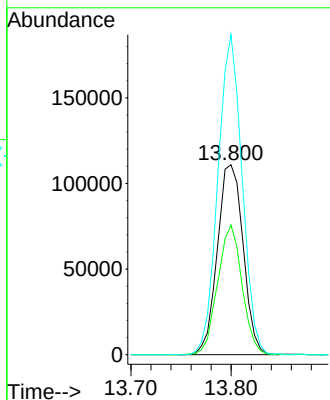
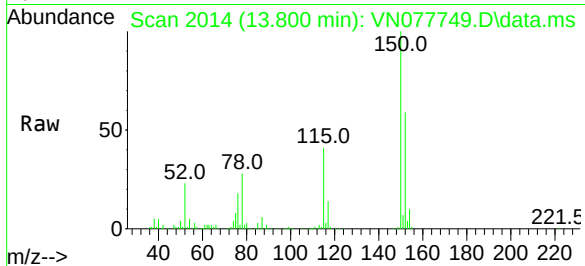




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN077749.D
Acq: 18 May 2023 20:14

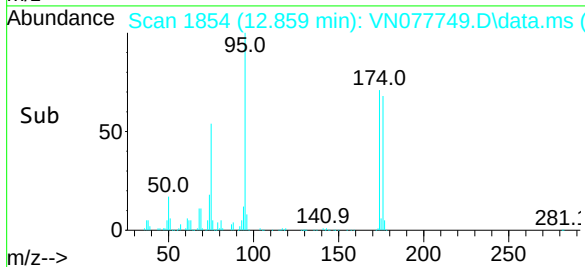
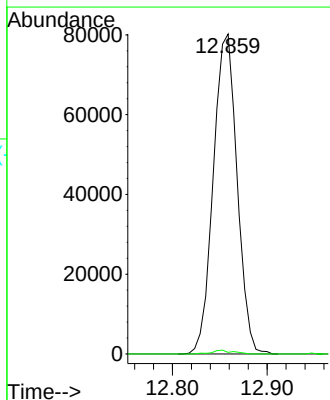
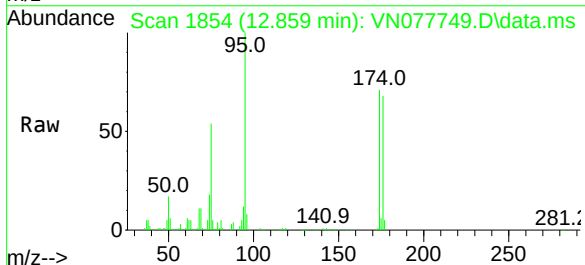
Instrument :
MSVOA_N
ClientSampleId :
RE125D2-20230517

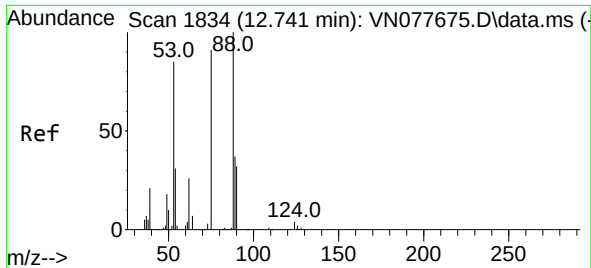
Tgt Ion:152 Resp: 198268
Ion Ratio Lower Upper
152 100
115 64.5 32.3 96.8
150 157.6 0.0 355.8



#76
1,2,3-Trichloropropane
Concen: 28.204 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. -0.141 min
Lab File: VN077749.D
Acq: 18 May 2023 20:14

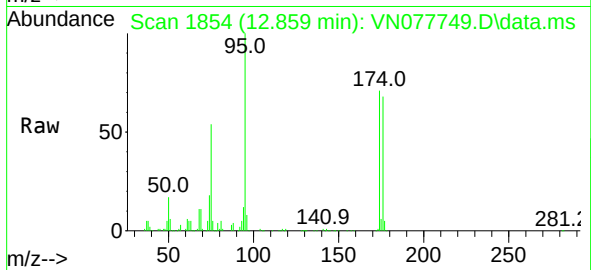
Tgt Ion: 75 Resp: 140040
Ion Ratio Lower Upper
75 100
77 1.0 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 90.153 ug/l
 RT: 12.859 min Scan# 11
 Delta R.T. 0.118 min
 Lab File: VN077749.D
 Acq: 18 May 2023 20:14

Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D2-20230517



Tgt Ion: 75 Resp: 140040
 Ion Ratio Lower Upper
 75 100
 53 0.1 67.4 101.2#
 89 0.0 38.8 58.2#

