

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031723\
 Data File : VN077047.D
 Acq On : 17 Mar 2023 21:00
 Operator : JC\MD
 Sample : 01904-07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RW4-20230313

Quant Time: Mar 18 02:35:31 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

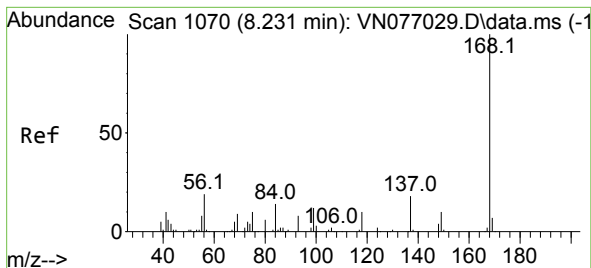
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	358007	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	671390	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	577335	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	220638	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	288101	50.380	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.760%			
35) Dibromofluoromethane	8.178	113	215013	45.730	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 91.460%			
50) Toluene-d8	10.571	98	815259	48.540	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.080%			
62) 4-Bromofluorobenzene	12.854	95	260803	43.944	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 87.880%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.143	85	507	Below Cal	#	42
9) 1,1,2-Trichlorotrifluo...	4.390	101	38906	8.189	ug/l	100
12) 1,1-Dichloroethene	4.354	96	5983	1.377	ug/l	85
16) Acetone	4.442	43	755	0.296	ug/l #	43
27) cis-1,2-Dichloroethene	7.495	96	7497	1.389	ug/l	86
30) Chloroform	7.983	83	3959	0.409	ug/l	97
31) Cyclohexane	8.236	56	10138	1.084	ug/l #	25
36) 1,1-Dichloropropene	8.230	75	34666	4.720	ug/l #	50
38) Carbon Tetrachloride	8.377	117	3342	0.467	ug/l #	75
39) Methylcyclohexane	9.360	83	45169	5.255	ug/l #	1
44) Trichloroethene	9.360	130	3299145	644.889	ug/l	95
45) 1,2-Dichloropropane	9.354	63	10737	1.815	ug/l #	1
49) 1,4-Dioxane	9.719	88	1673	16.692	ug/l	92
51) 4-Methyl-2-Pentanone	10.571	43	3968	0.519	ug/l #	1
55) 1,1,2-Trichloroethane	11.019	97	1415	0.270	ug/l #	51
60) Dibromochloromethane	11.107	129	20886	3.965	ug/l #	11
64) Tetrachloroethene	11.113	164	20593	5.315	ug/l	98
76) 1,2,3-Trichloropropane	12.854	75	140827	24.676	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	140827	67.921	ug/l #	10
95) Naphthalene	15.630	128	158	1.922	ug/l #	70

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

Quant Time: Mar 18 02:35:31 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.001 min

Lab File: VN077047.D

Acq: 17 Mar 2023 21:00

Instrument :

MSVOA_N

ClientSampleId :

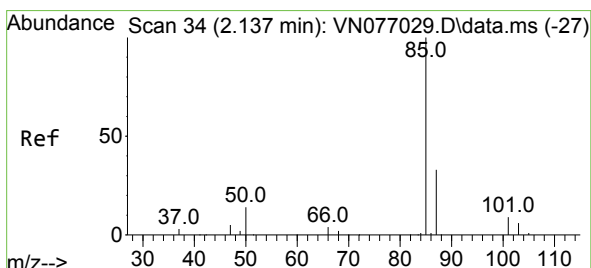
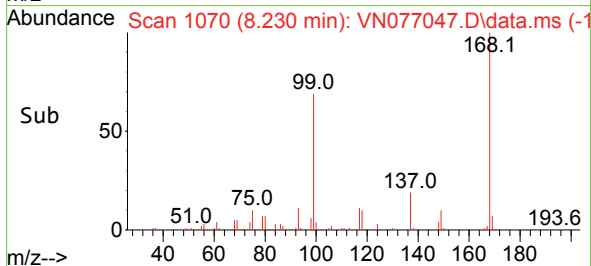
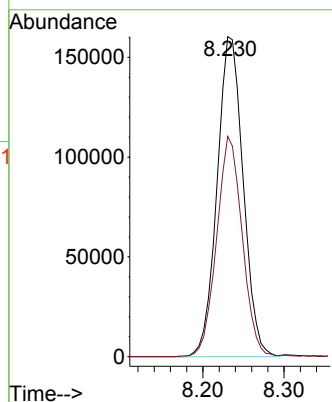
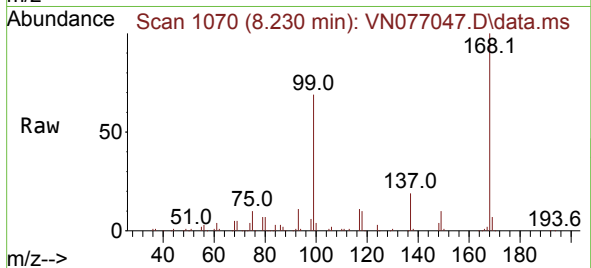
RW4-20230313

Tgt Ion:168 Resp: 358007

Ion Ratio Lower Upper

168 100

99 68.7 53.9 80.9



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.143 min Scan# 35

Delta R.T. 0.006 min

Lab File: VN077047.D

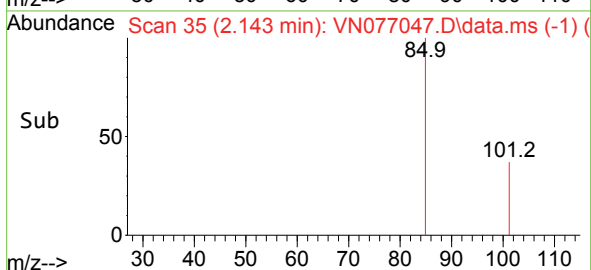
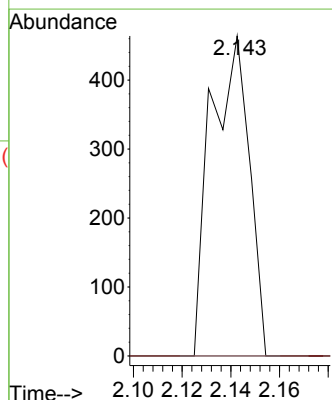
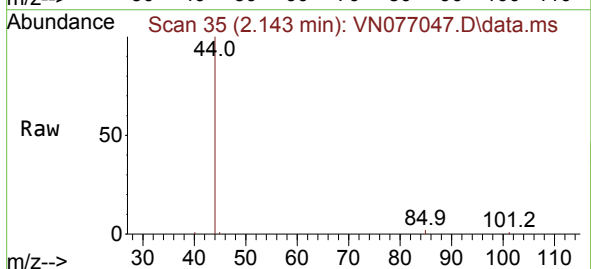
Acq: 17 Mar 2023 21:00

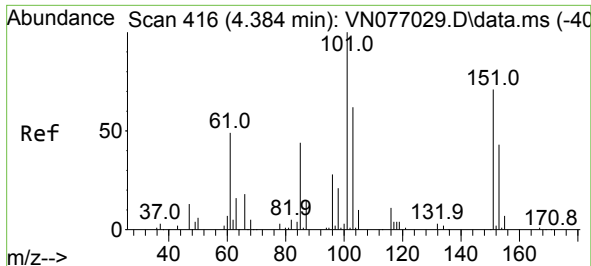
Tgt Ion: 85 Resp: 507

Ion Ratio Lower Upper

85 100

87 0.0 16.4 49.2#

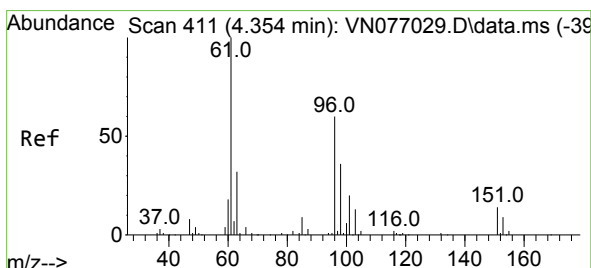
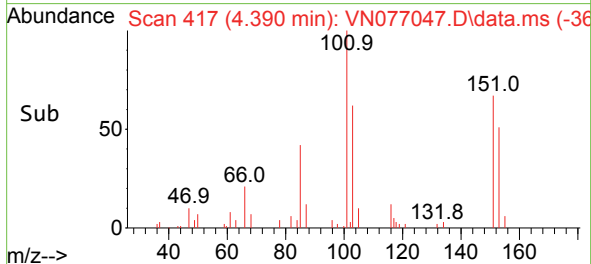
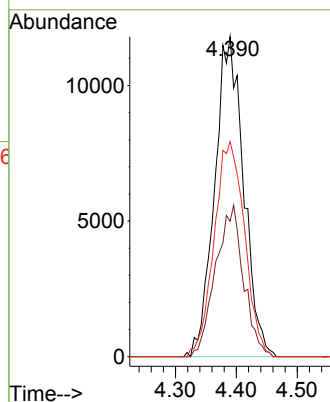
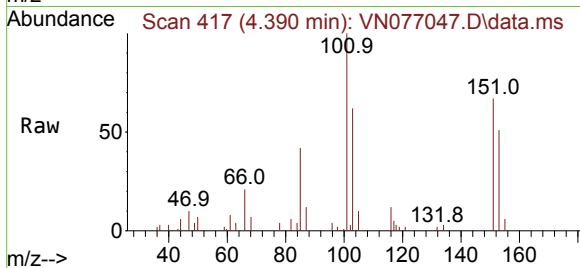




#9
1,1,2-Trichlorotrifluoroethane
Concen: 8.189 ug/l
RT: 4.390 min Scan# 416
Delta R.T. 0.006 min
Lab File: VN077047.D
Acq: 17 Mar 2023 21:00

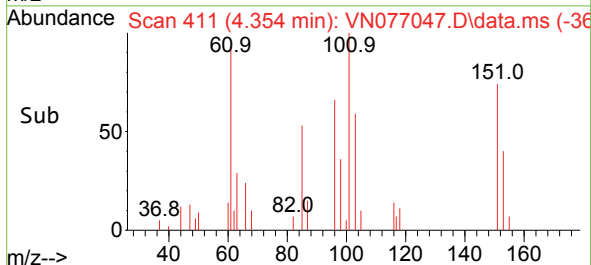
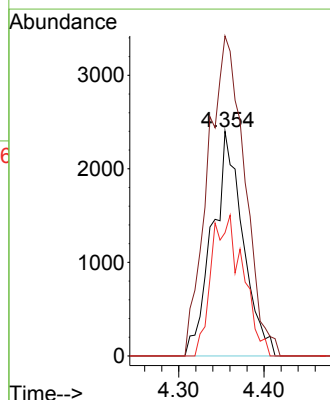
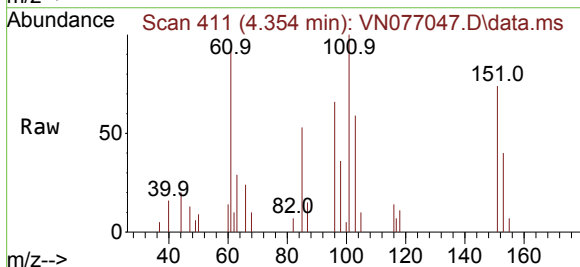
Instrument :
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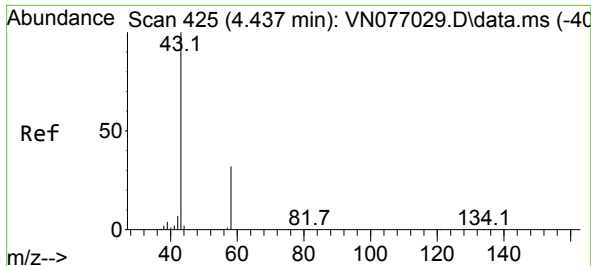
Tgt Ion:101 Resp: 38906
Ion Ratio Lower Upper
101 100
85 45.8 36.6 55.0
151 70.6 56.9 85.3



#12
1,1-Dichloroethene
Concen: 1.377 ug/l
RT: 4.354 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN077047.D
Acq: 17 Mar 2023 21:00

Tgt Ion: 96 Resp: 5983
Ion Ratio Lower Upper
96 100
61 142.5 133.8 200.8
98 54.8 48.6 72.8

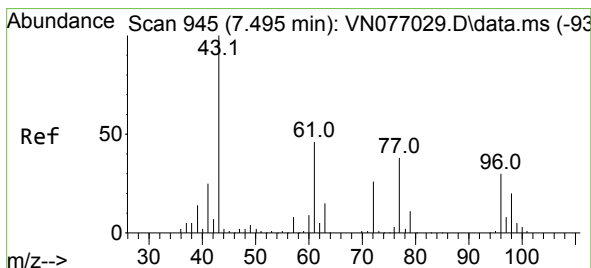
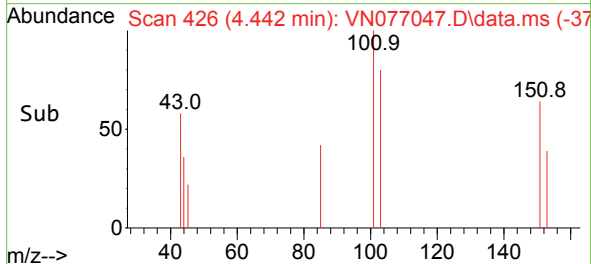
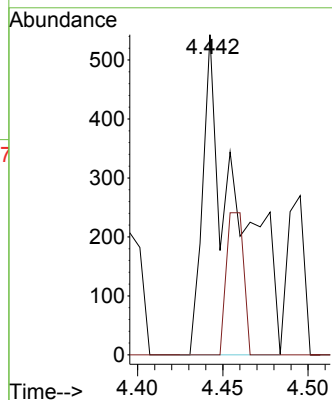
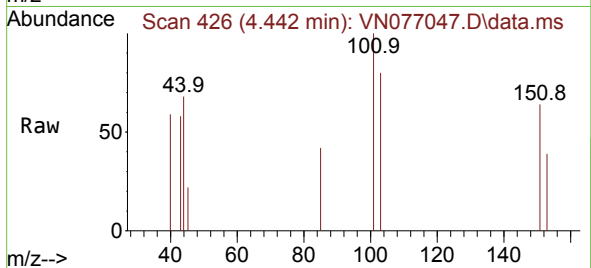




#16
Acetone
Concen: 0.296 ug/l
RT: 4.442 min Scan# 431
Delta R.T. 0.006 min
Lab File: VN077047.D
Acq: 17 Mar 2023 21:00

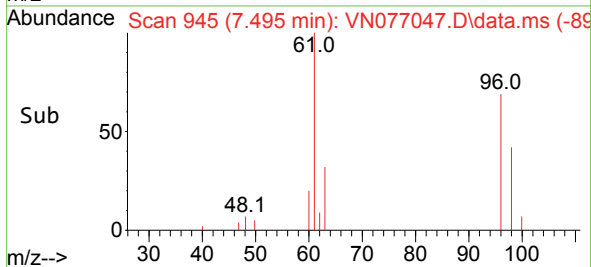
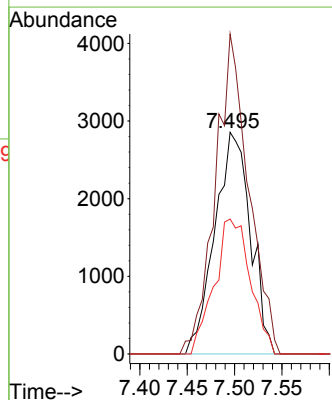
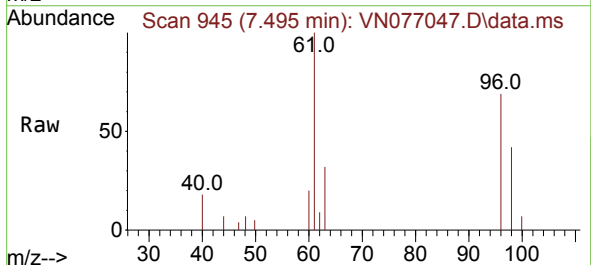
Instrument :
MSVOA_N
ClientSampleId :
RW4-20230313

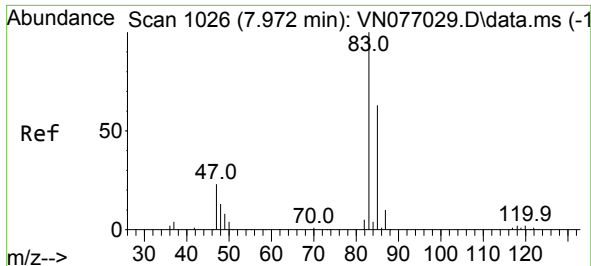
Tgt Ion: 43 Resp: 755
Ion Ratio Lower Upper
43 100
58 0.0 25.4 38.0#



#27
cis-1,2-Dichloroethene
Concen: 1.389 ug/l
RT: 7.495 min Scan# 945
Delta R.T. -0.000 min
Lab File: VN077047.D
Acq: 17 Mar 2023 21:00

Tgt Ion: 96 Resp: 7497
Ion Ratio Lower Upper
96 100
61 134.8 0.0 315.4
98 61.4 0.0 128.6

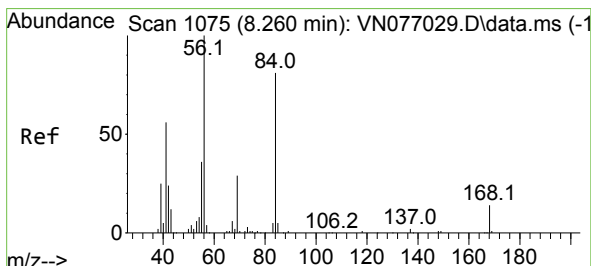
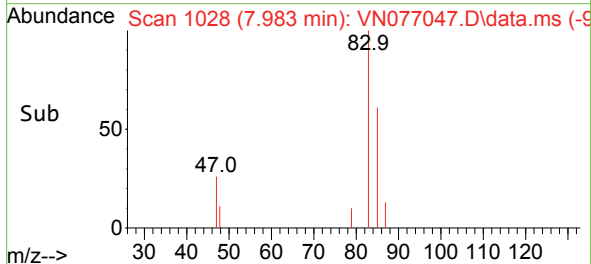
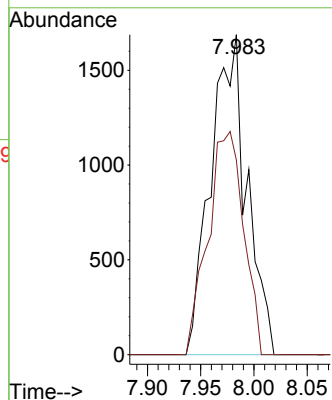
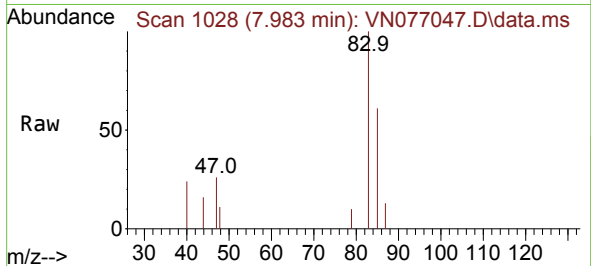




#30
Chloroform
Concen: 0.409 ug/l
RT: 7.983 min Scan# 1026
Delta R.T. 0.012 min
Lab File: VN077047.D
Acq: 17 Mar 2023 21:00

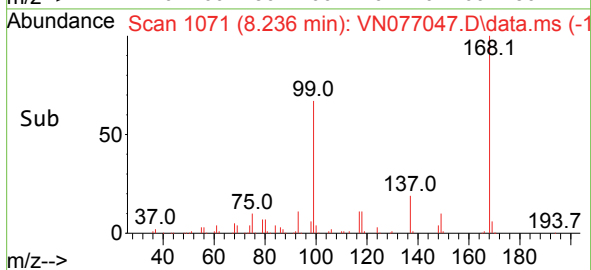
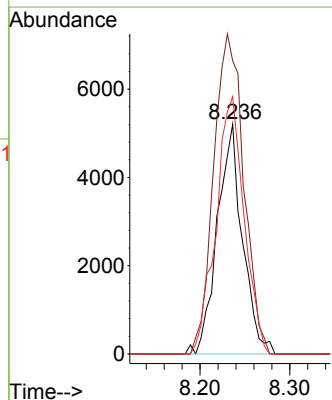
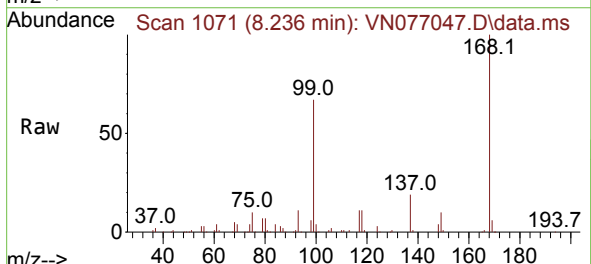
Instrument :
MSVOA_N
ClientSampleId :
RW4-20230313

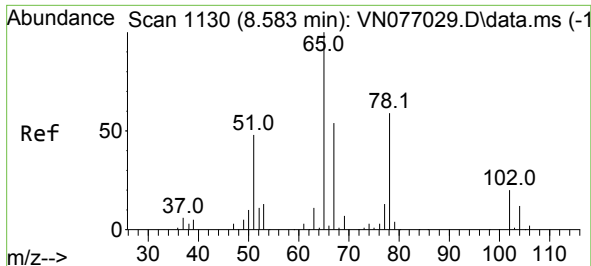
Tgt Ion: 83 Resp: 3959
Ion Ratio Lower Upper
83 100
85 60.8 50.6 75.8



#31
Cyclohexane
Concen: 1.084 ug/l
RT: 8.236 min Scan# 1071
Delta R.T. -0.024 min
Lab File: VN077047.D
Acq: 17 Mar 2023 21:00

Tgt Ion: 56 Resp: 10138
Ion Ratio Lower Upper
56 100
69 127.7 22.8 34.2#
84 112.0 64.7 97.1#





#33

1,2-Dichloroethane-d4

Concen: 50.380 ug/l

RT: 8.583 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN077047.D

Acq: 17 Mar 2023 21:00

Instrument :

MSVOA_N

ClientSampleId :

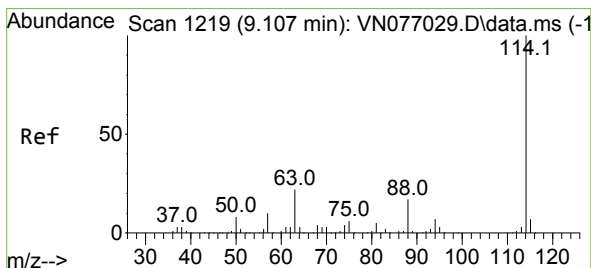
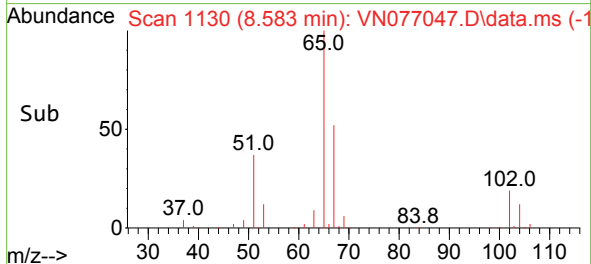
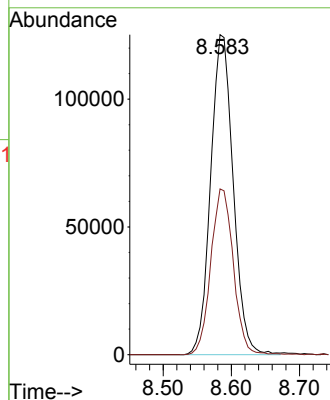
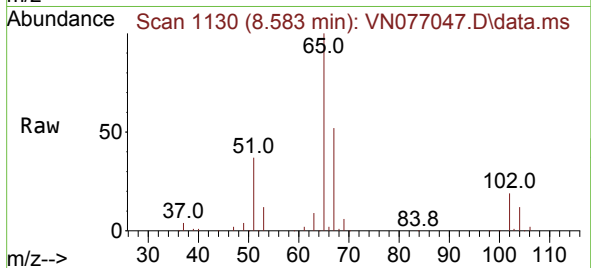
RW4-20230313

Tgt Ion: 65 Resp: 288101

Ion Ratio Lower Upper

65 100

67 51.8 0.0 105.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. -0.000 min

Lab File: VN077047.D

Acq: 17 Mar 2023 21:00

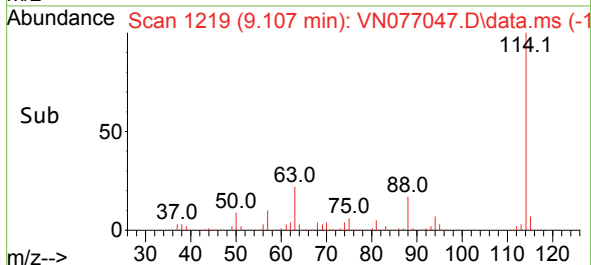
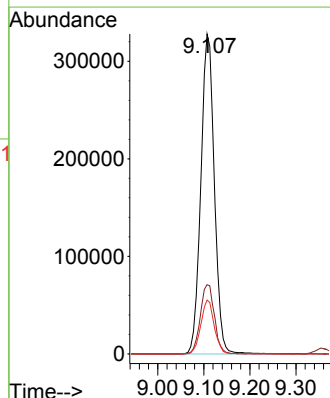
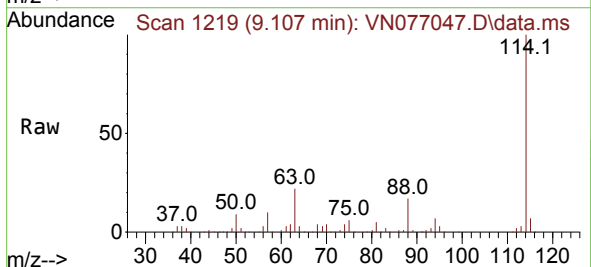
Tgt Ion: 114 Resp: 671390

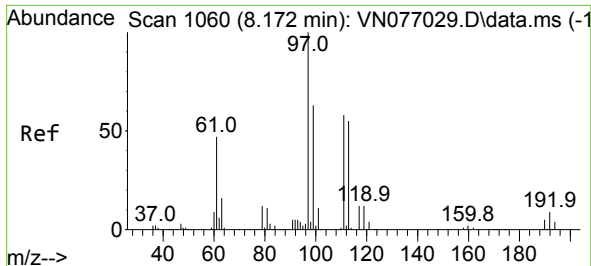
Ion Ratio Lower Upper

114 100

63 21.7 0.0 44.6

88 16.9 0.0 33.8





#35

Dibromofluoromethane

Concen: 45.730 ug/l

RT: 8.178 min Scan# 1060

Delta R.T. 0.006 min

Lab File: VN077047.D

Acq: 17 Mar 2023 21:00

Instrument :

MSVOA_N

ClientSampleId :

RW4-20230313

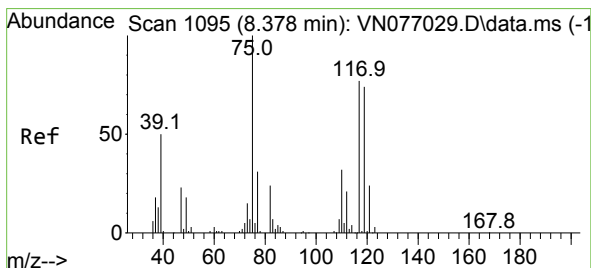
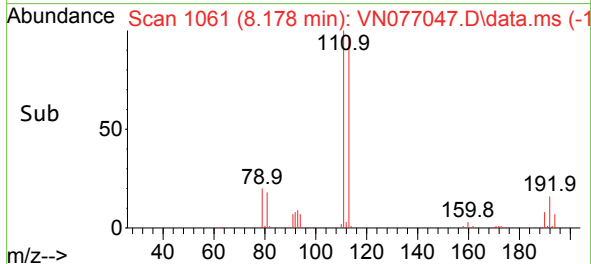
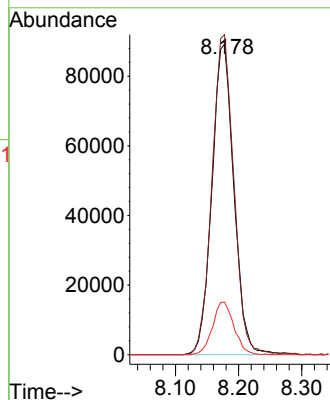
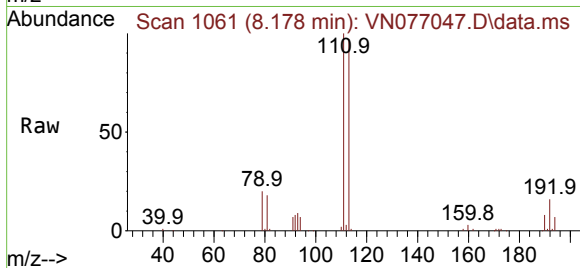
Tgt Ion:113 Resp: 215013

Ion Ratio Lower Upper

113 100

111 102.7 82.2 123.2

192 16.5 13.0 19.6



#36

1,1-Dichloropropene

Concen: 4.720 ug/l

RT: 8.230 min Scan# 1070

Delta R.T. -0.147 min

Lab File: VN077047.D

Acq: 17 Mar 2023 21:00

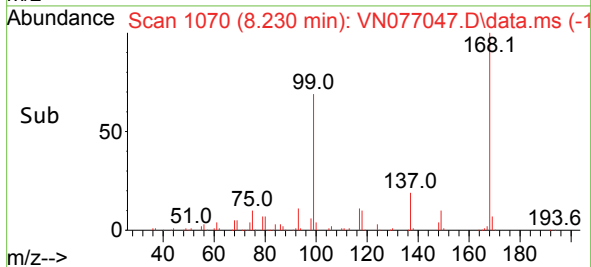
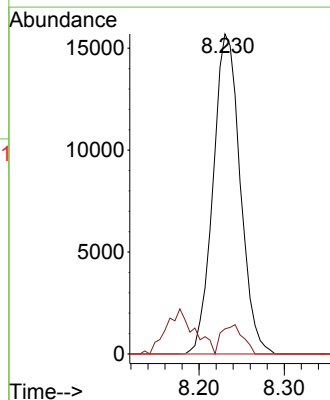
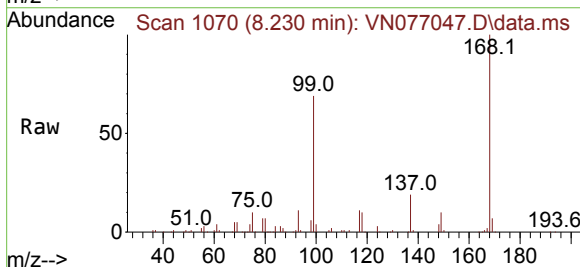
Tgt Ion: 75 Resp: 34666

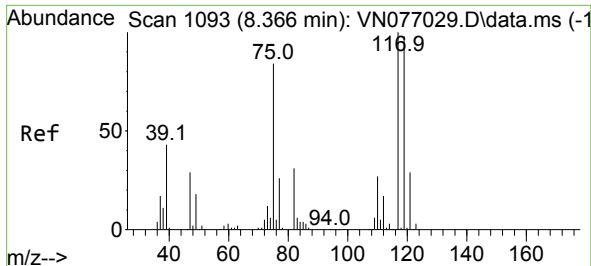
Ion Ratio Lower Upper

75 100

110 7.2 15.9 47.7#

77 0.0 24.3 36.5#

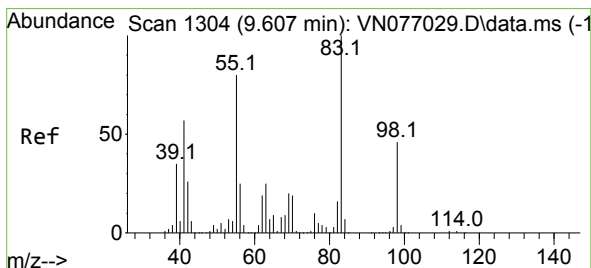
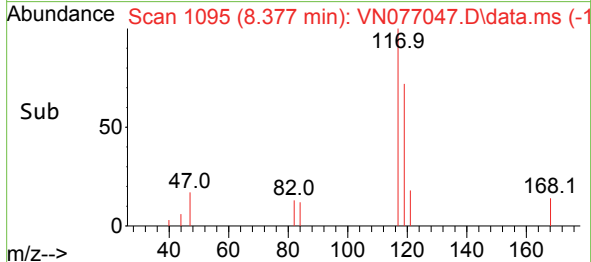
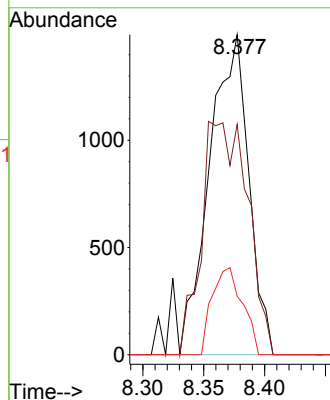
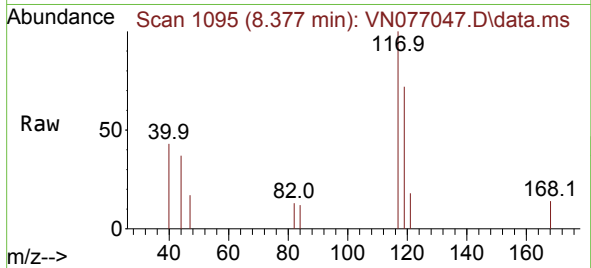




#38
Carbon Tetrachloride
Concen: 0.467 ug/l
RT: 8.377 min Scan# 110
Delta R.T. 0.012 min
Lab File: VN077047.D
Acq: 17 Mar 2023 21:00

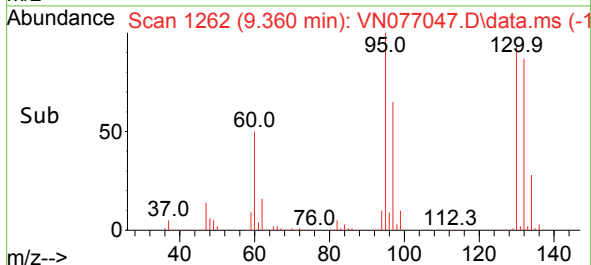
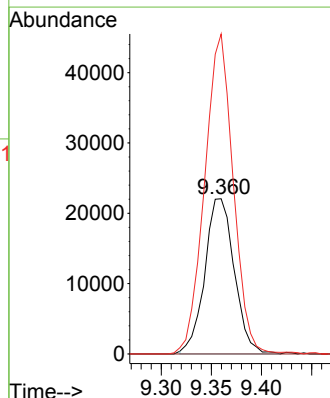
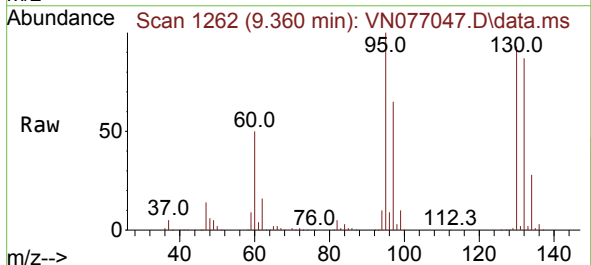
Instrument :
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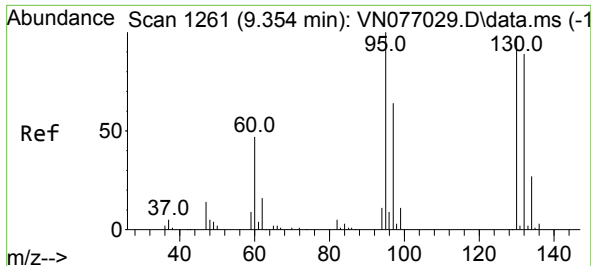
Tgt Ion:117 Resp: 3342
Ion Ratio Lower Upper
117 100
119 71.9 78.2 117.2#
121 18.3 23.2 34.8#



#39
Methylcyclohexane
Concen: 5.255 ug/l
RT: 9.360 min Scan# 1262
Delta R.T. -0.247 min
Lab File: VN077047.D
Acq: 17 Mar 2023 21:00

Tgt Ion: 83 Resp: 45169
Ion Ratio Lower Upper
83 100
55 0.0 63.8 95.8#
98 205.1 37.1 55.7#

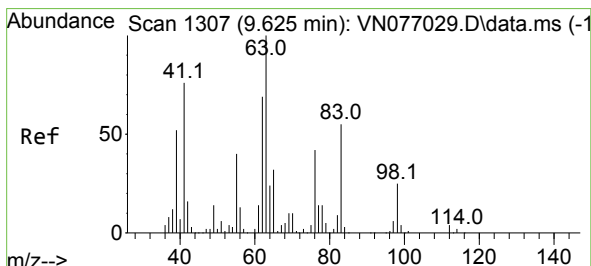
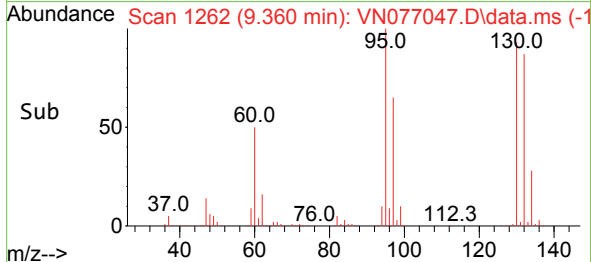
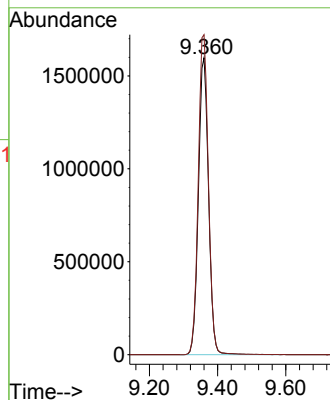
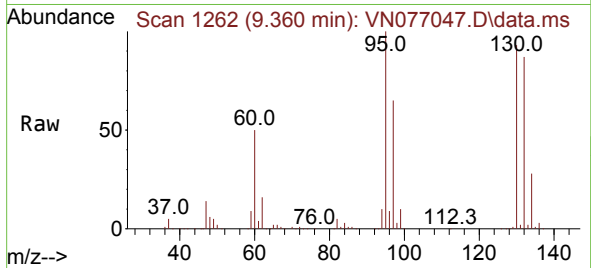




#44
Trichloroethene
Concen: 644.889 ug/l
RT: 9.360 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN077047.D
Acq: 17 Mar 2023 21:00

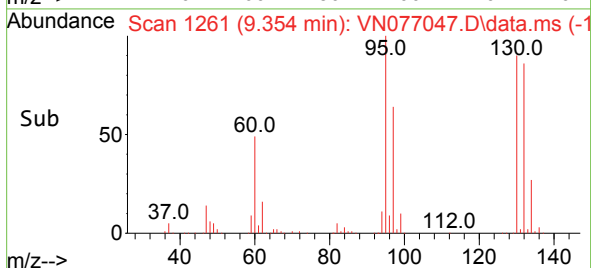
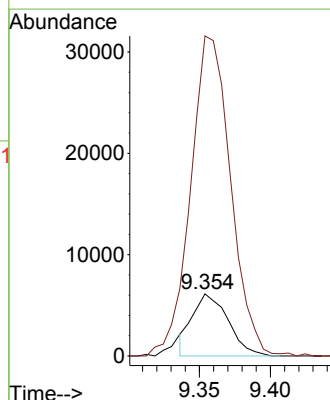
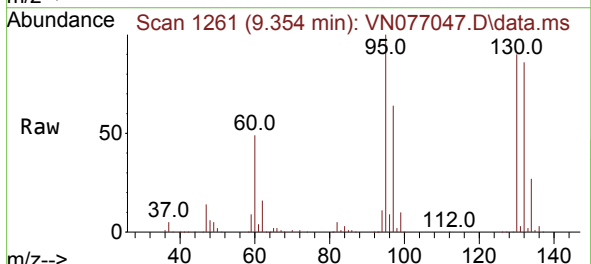
Instrument :
MSVOA_N
ClientSampleId :
RW4-20230313

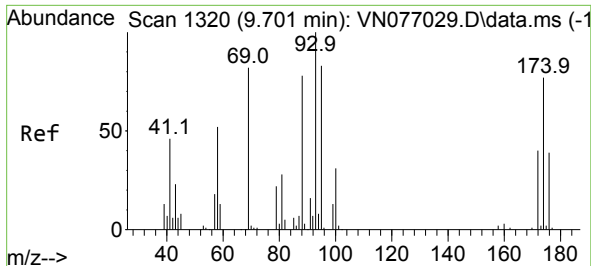
Tgt Ion:130 Resp: 3299145
Ion Ratio Lower Upper
130 100
95 107.8 0.0 204.4



#45
1,2-Dichloropropane
Concen: 1.815 ug/l
RT: 9.354 min Scan# 1261
Delta R.T. -0.271 min
Lab File: VN077047.D
Acq: 17 Mar 2023 21:00

Tgt Ion: 63 Resp: 10737
Ion Ratio Lower Upper
63 100
65 512.5 25.5 38.3#





#49

1,4-Dioxane

Concen: 16.692 ug/l

RT: 9.719 min Scan# 11

Delta R.T. 0.018 min

Lab File: VN077047.D

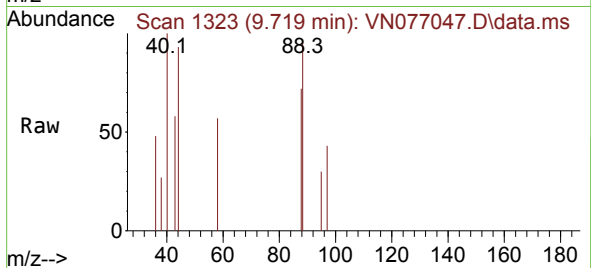
Acq: 17 Mar 2023 21:00

Instrument :

MSVOA_N

ClientSampleId :

RW4-20230313



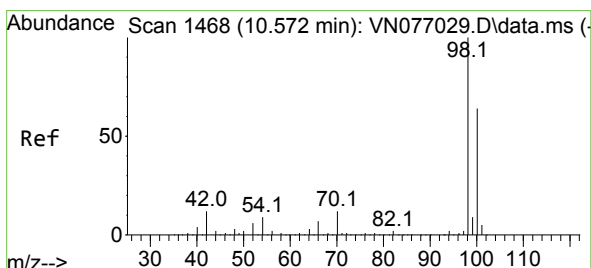
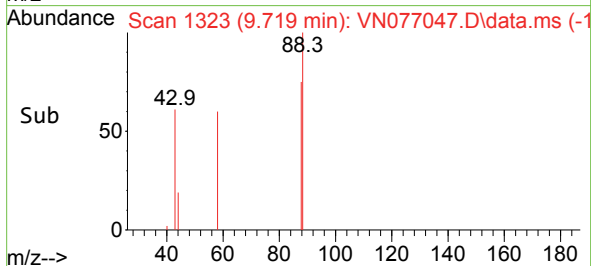
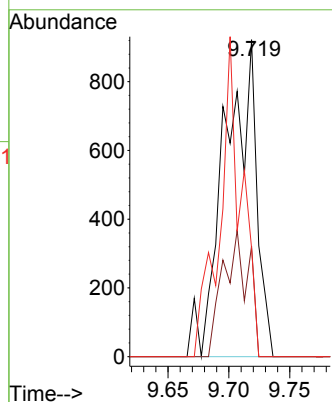
Tgt Ion: 88 Resp: 1673

Ion Ratio Lower Upper

88 100

43 31.7 22.2 33.2

58 69.4 60.8 91.2



#50

Toluene-d8

Concen: 48.540 ug/l

RT: 10.571 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VN077047.D

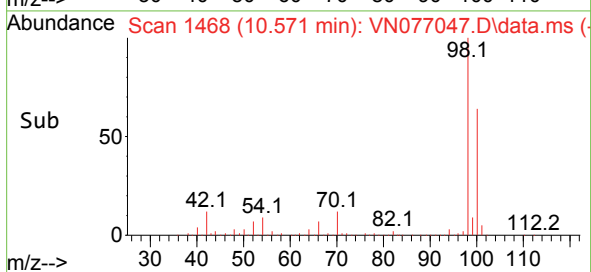
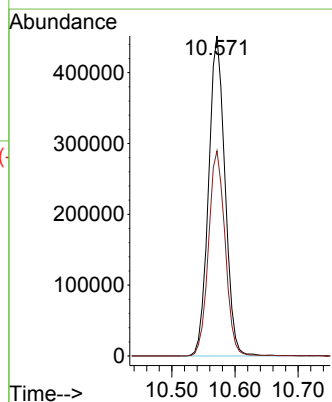
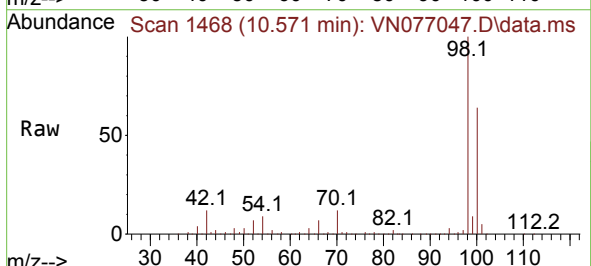
Acq: 17 Mar 2023 21:00

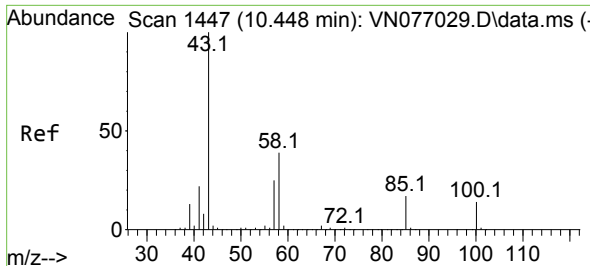
Tgt Ion: 98 Resp: 815259

Ion Ratio Lower Upper

98 100

100 64.6 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 0.519 ug/l

RT: 10.571 min Scan# 1447

Delta R.T. 0.123 min

Lab File: VN077047.D

Acq: 17 Mar 2023 21:00

Instrument :

MSVOA_N

ClientSampleId :

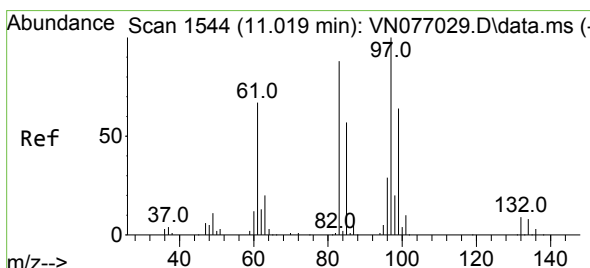
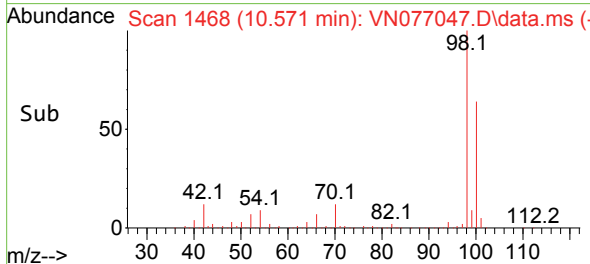
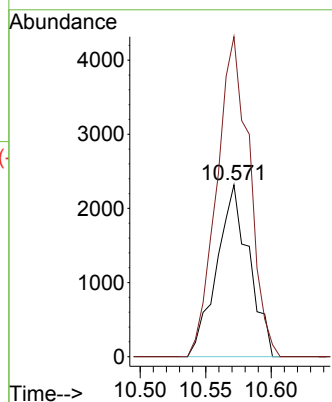
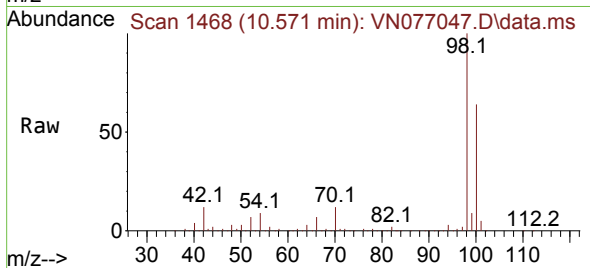
RW4-20230313

Tgt Ion: 43 Resp: 3968

Ion Ratio Lower Upper

43 100

58 188.6 31.1 46.7#



#55

1,1,2-Trichloroethane

Concen: 0.270 ug/l

RT: 11.019 min Scan# 1544

Delta R.T. -0.000 min

Lab File: VN077047.D

Acq: 17 Mar 2023 21:00

Tgt Ion: 97 Resp: 1415

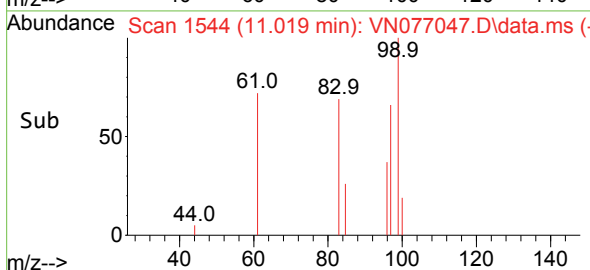
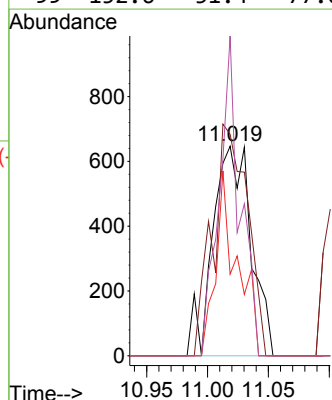
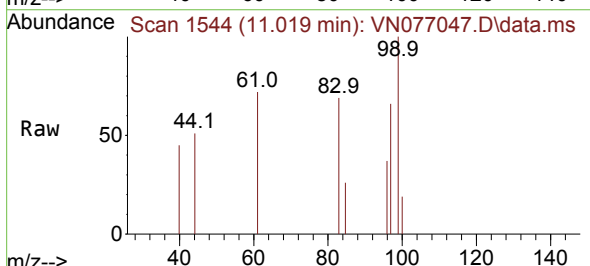
Ion Ratio Lower Upper

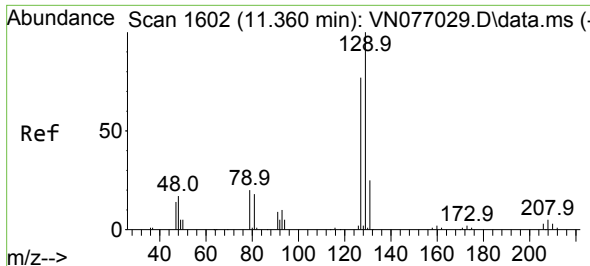
97 100

83 105.7 70.5 105.7

85 38.9 45.4 68.2#

99 152.6 51.4 77.0#

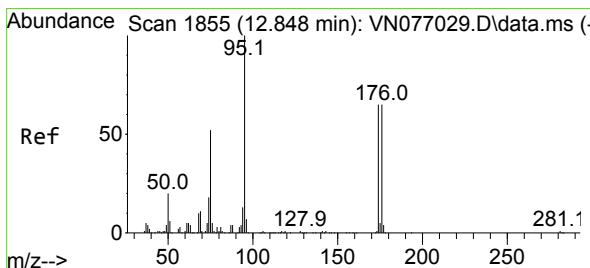
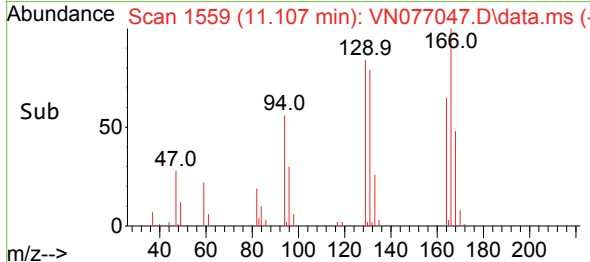
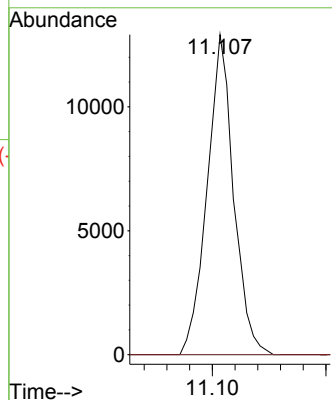
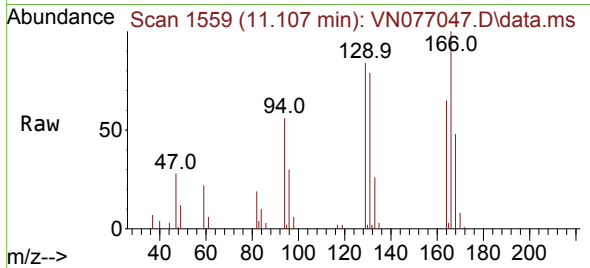




#60
Dibromochloromethane
Concen: 3.965 ug/l
RT: 11.107 min Scan# 11
Delta R.T. -0.253 min
Lab File: VN077047.D
Acq: 17 Mar 2023 21:00

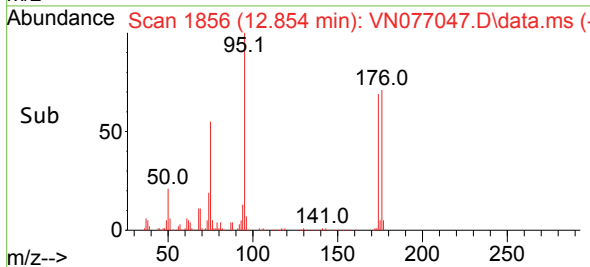
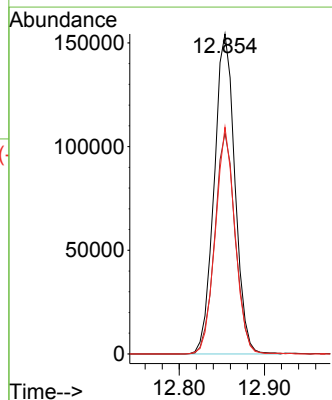
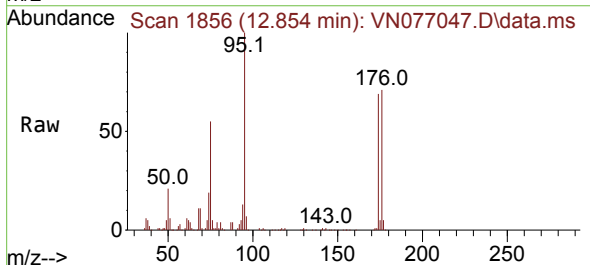
Instrument :
MSVOA_N
ClientSampleId :
RW4-20230313

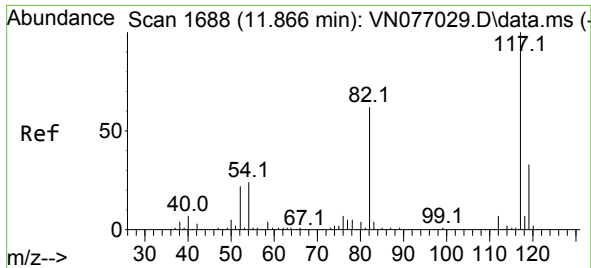
Tgt Ion:129 Resp: 20886
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.7#



#62
4-Bromofluorobenzene
Concen: 43.944 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077047.D
Acq: 17 Mar 2023 21:00

Tgt Ion: 95 Resp: 260803
Ion Ratio Lower Upper
95 100
174 68.3 0.0 136.6
176 67.2 0.0 130.0

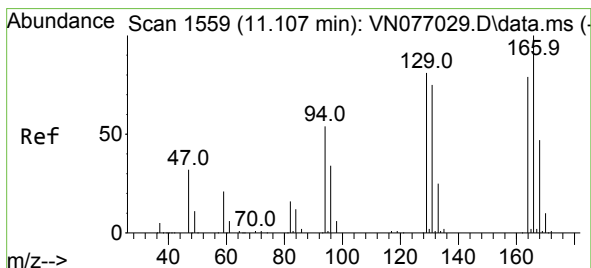
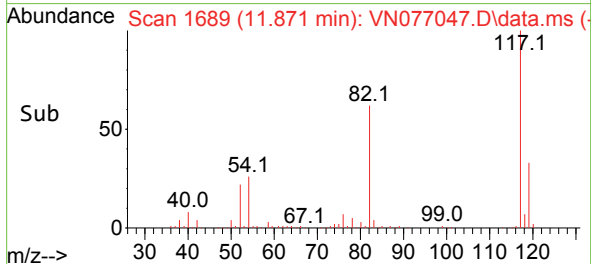
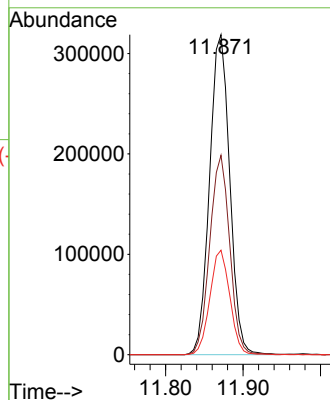
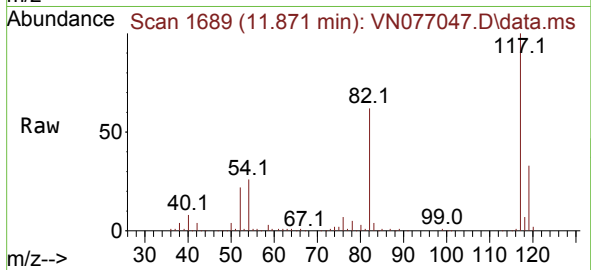




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN077047.D
Acq: 17 Mar 2023 21:00

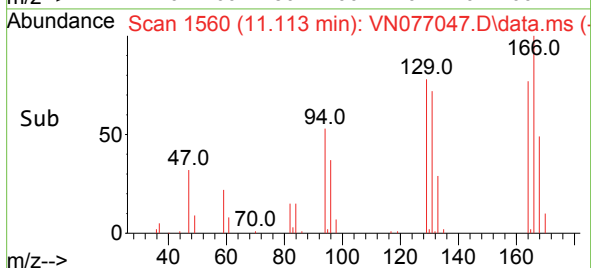
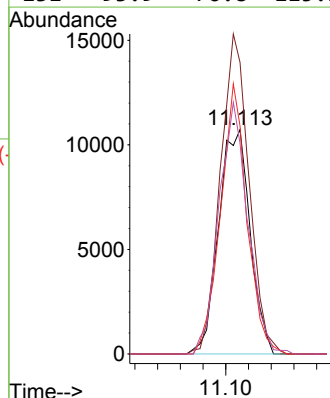
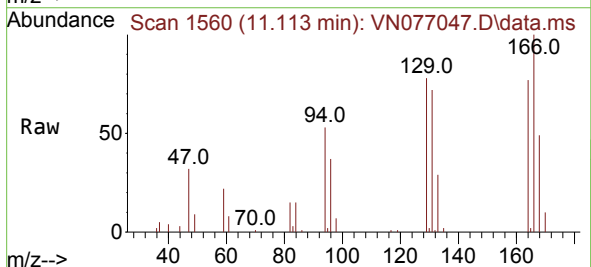
Instrument :
MSVOA_N
ClientSampleId :
RW4-20230313

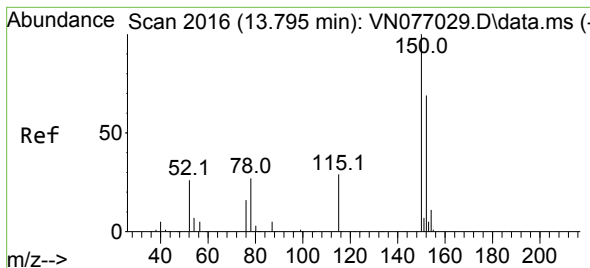
Tgt Ion:117 Resp: 577335
Ion Ratio Lower Upper
117 100
82 62.3 49.4 74.0
119 32.6 26.5 39.7



#64
Tetrachloroethene
Concen: 5.315 ug/l
RT: 11.113 min Scan# 1560
Delta R.T. 0.006 min
Lab File: VN077047.D
Acq: 17 Mar 2023 21:00

Tgt Ion:164 Resp: 20593
Ion Ratio Lower Upper
164 100
166 130.0 101.9 152.9
129 101.6 82.6 123.8
131 93.9 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: VN077047.D

Acq: 17 Mar 2023 21:00

Instrument :

MSVOA_N

ClientSampleId :

RW4-20230313

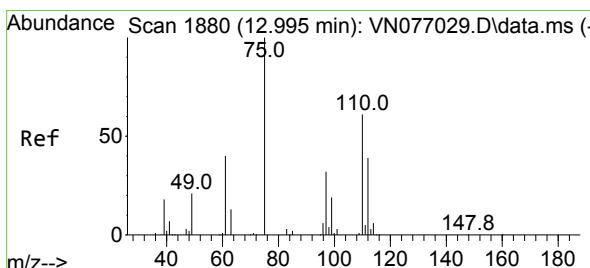
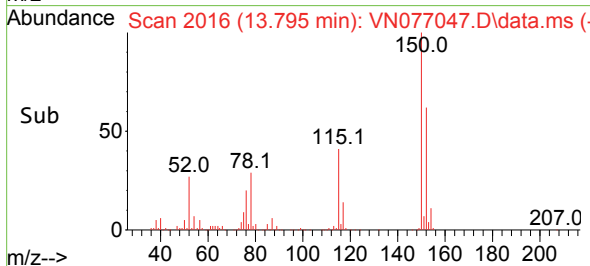
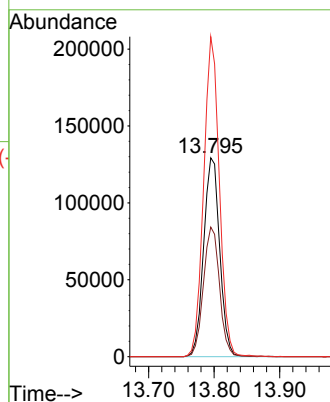
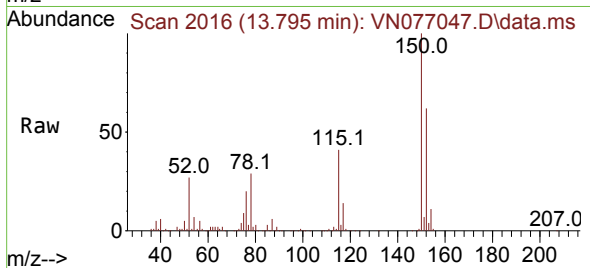
Tgt Ion:152 Resp: 220638

Ion Ratio Lower Upper

152 100

115 65.3 31.9 95.7

150 157.1 0.0 348.0



#76

1,2,3-Trichloropropane

Concen: 24.676 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. -0.141 min

Lab File: VN077047.D

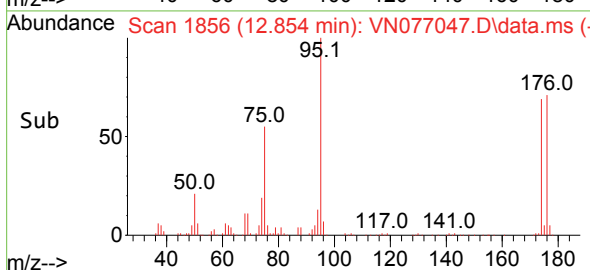
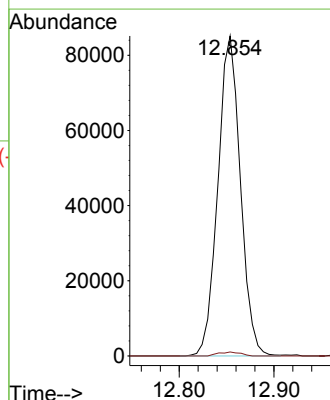
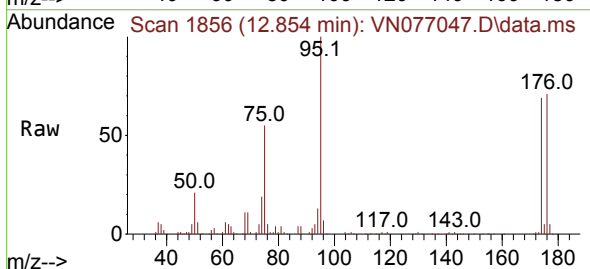
Acq: 17 Mar 2023 21:00

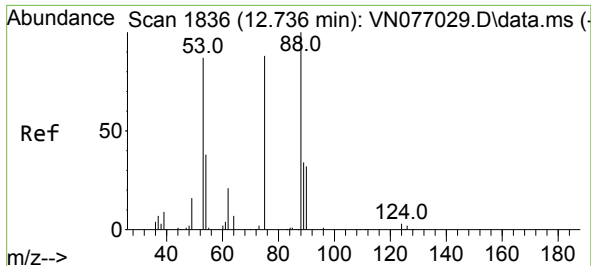
Tgt Ion: 75 Resp: 140827

Ion Ratio Lower Upper

75 100

77 1.2 107.3 322.0#

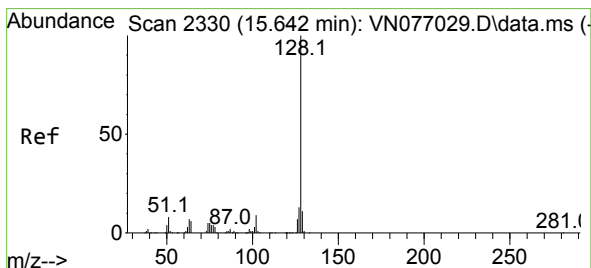
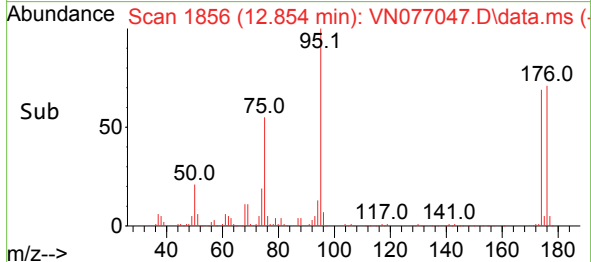
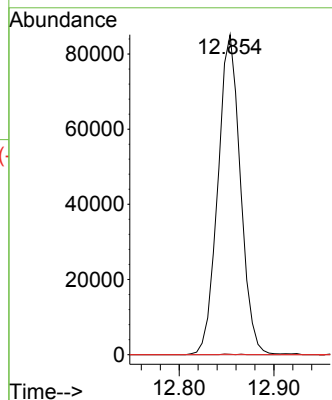
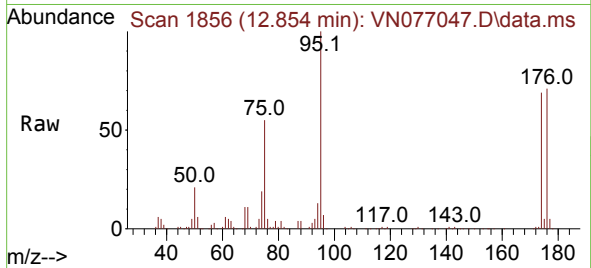




#81
trans-1,4-Dichloro-2-butene
Concen: 67.921 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN077047.D
Acq: 17 Mar 2023 21:00

Instrument :
MSVOA_N
ClientSampleId :
RW4-20230313

Tgt Ion: 75 Resp: 140827
Ion Ratio Lower Upper
75 100
53 0.1 80.8 121.2#
89 0.0 34.2 51.4#



#95
Naphthalene
Concen: 1.922 ug/l
RT: 15.630 min Scan# 2328
Delta R.T. -0.012 min
Lab File: VN077047.D
Acq: 17 Mar 2023 21:00

Tgt Ion: 128 Resp: 158
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.6 13.0#

