

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031722\
 Data File : VN071350.D
 Acq On : 17 Mar 2022 14:19
 Operator : JC\MD
 Sample : N1978-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TT-RW7A-IDWGW-20220315

Quant Time: Mar 30 09:24:49 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N031722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 17 06:37:08 2022
 Response via : Initial Calibration

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

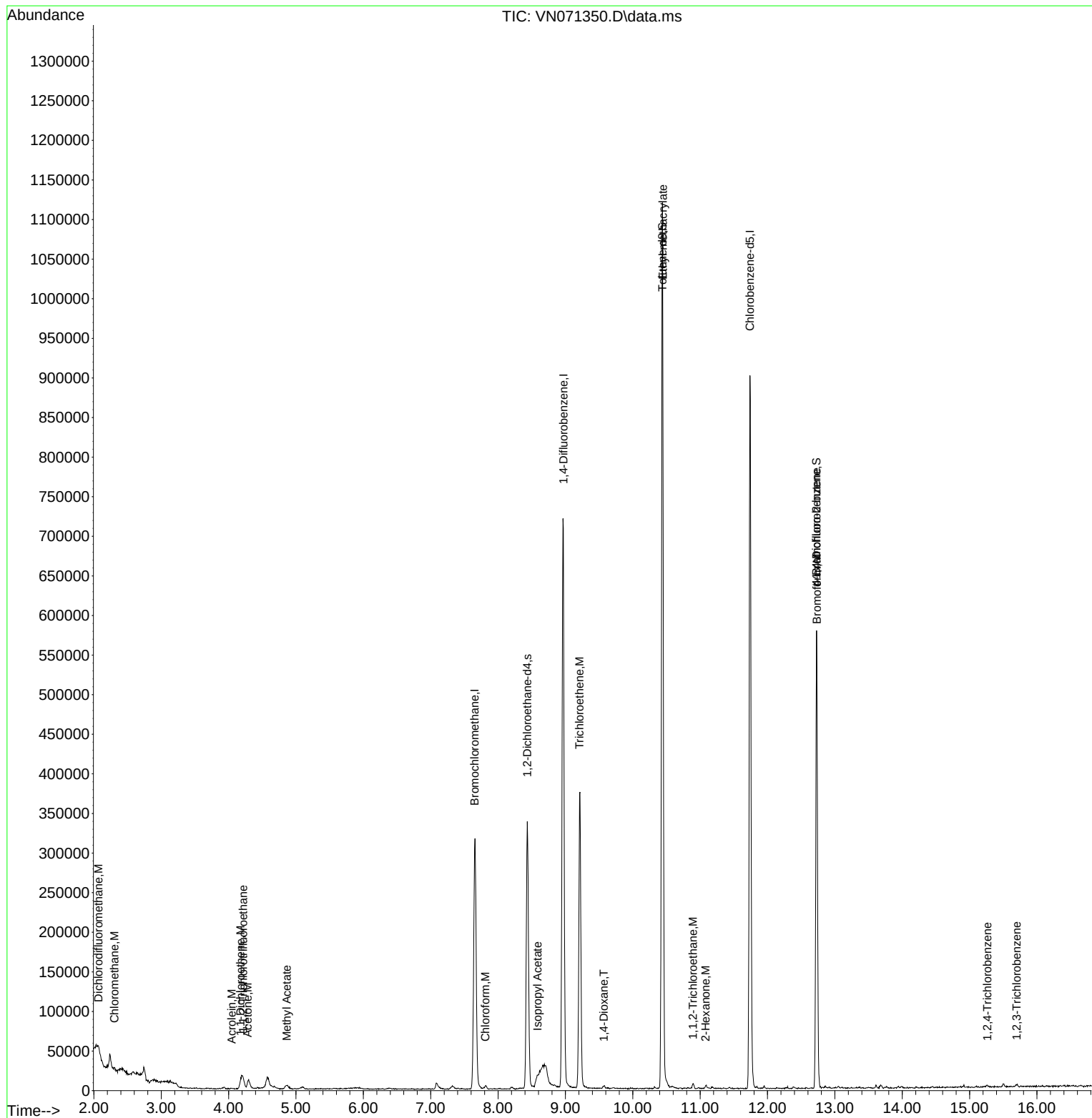
Internal Standards						
1) Bromochloromethane	7.651	128	112586	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.969	114	627952	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	529524	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.434	65	279290	31.245	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	104.167%
60) 4-Bromofluorobenzene	12.727	95	199462	24.382	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	81.267%
63) Toluene-d8	10.439	98	754097	30.958	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	103.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.069	85	3935	0.541	ug/l	89
3) Chloromethane	2.305	50	3024	0.311	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.216	101	8064	1.275	ug/l	81
10) 1,1-Dichloroethene	4.175	96	2591	0.403	ug/l #	85
12) Methyl Acetate	4.863	43	5855	0.475	ug/l #	71
13) Acrolein	4.046	56	768	0.475	ug/l #	59
15) Acetone	4.281	58	2122	1.572	ug/l	71
25) Chloroform	7.810	83	3729	0.273	ug/l	94
37) Trichloroethene	9.210	130	141434	18.974	ug/l	100
44) Isopropyl Acetate	8.586	43	13382	0.598	ug/l #	50
45) 1,4-Dioxane	9.569	88	1928	9.675	ug/l #	77
50) 1,1,2-Trichloroethane	10.892	97	2213	0.290	ug/l #	77
51) Ethyl methacrylate	10.445	69	2741	0.209	ug/l	78
56) Bromoform	12.733	173	1761	0.287	ug/l #	1
59) 2-Hexanone	11.080	43	3811	0.403	ug/l #	86
77) t-1,4-Dichloro-2-butene	12.727	75	104269	31.287	ug/l #	8
89) 1,2,4-Trichlorobenzene	15.262	180	1220	0.223	ug/l #	90
92) 1,2,3-Trichlorobenzene	15.698	180	1316	0.234	ug/l	61

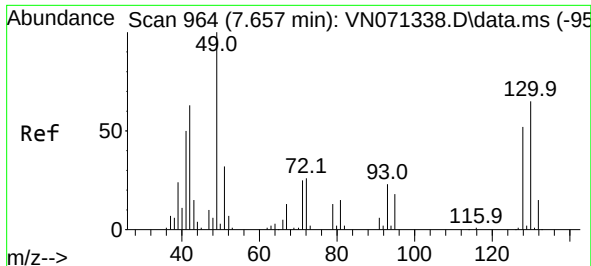
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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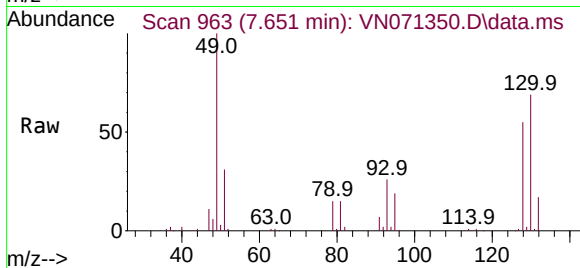
Quant Time: Mar 30 09:24:49 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N031722W.M
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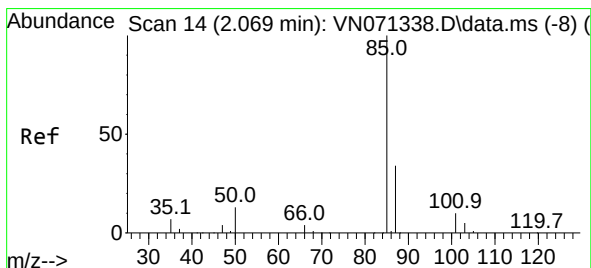
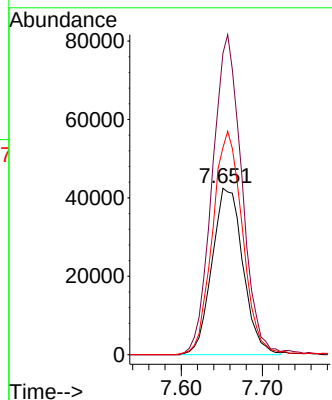
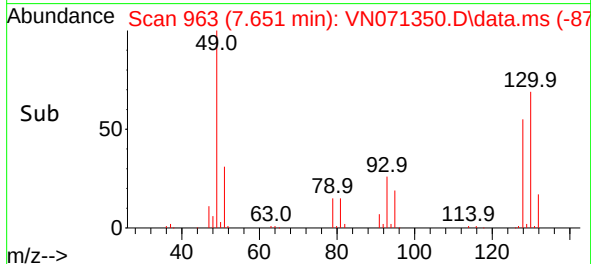


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.651 min Scan# 90
Delta R.T. -0.006 min
Lab File: VN071350.D
Acq: 17 Mar 2022 14:19

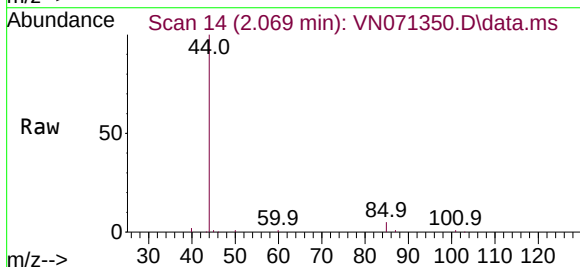
Instrument :
MSVOA_N
ClientSampleId :
TT-RW7A-IDWGW-20220315



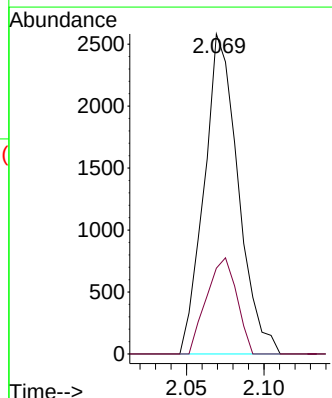
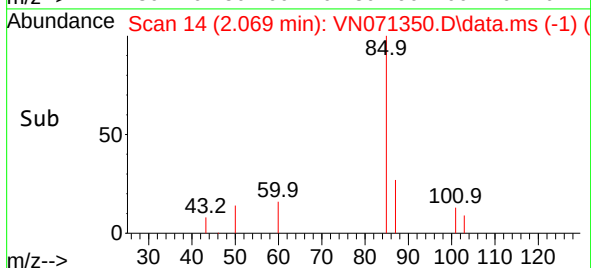
Tgt Ion:128 Resp: 112586
Ion Ratio Lower Upper
128 100
49 182.8 0.0 392.3
130 130.3 0.0 320.2

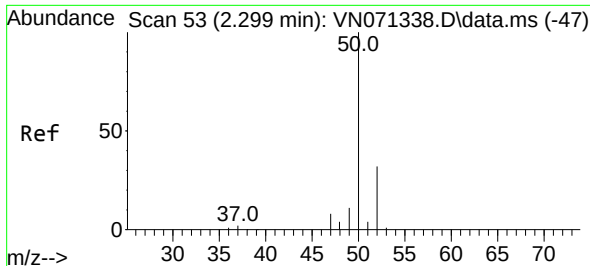


#2
Dichlorodifluoromethane
Concen: 0.541 ug/l
RT: 2.069 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN071350.D
Acq: 17 Mar 2022 14:19



Tgt Ion: 85 Resp: 3935
Ion Ratio Lower Upper
85 100
87 26.8 16.6 49.7

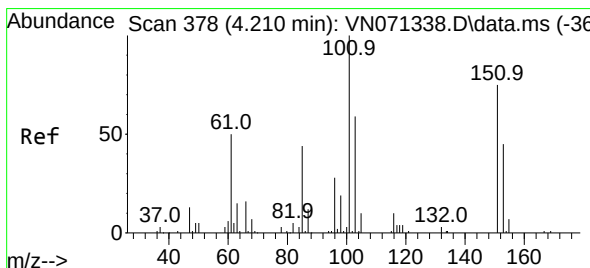
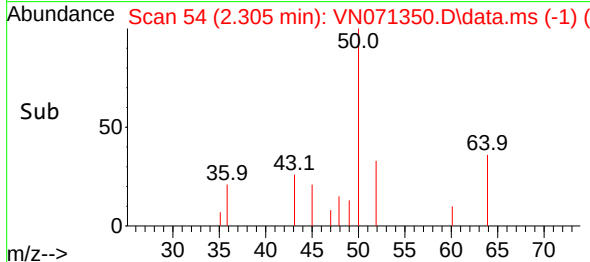
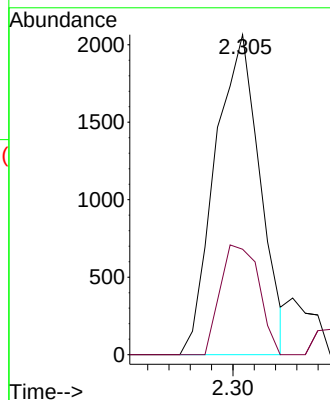
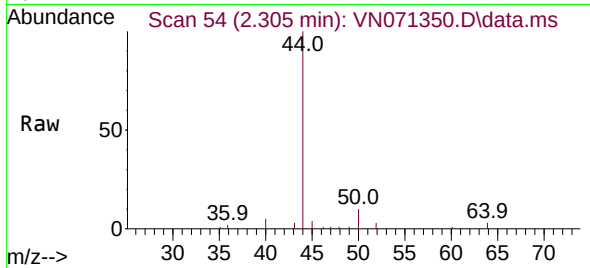




#3
Chloromethane
Concen: 0.311 ug/l
RT: 2.305 min Scan# 54
Delta R.T. 0.006 min
Lab File: VN071350.D
Acq: 17 Mar 2022 14:19

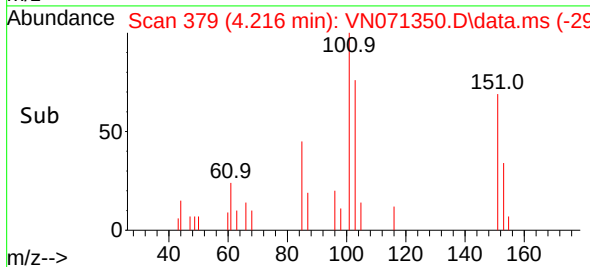
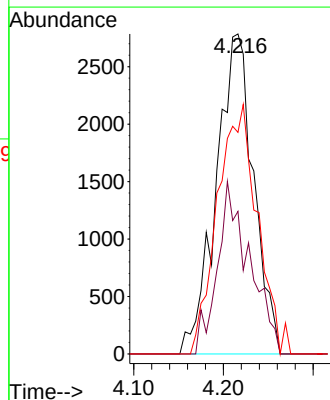
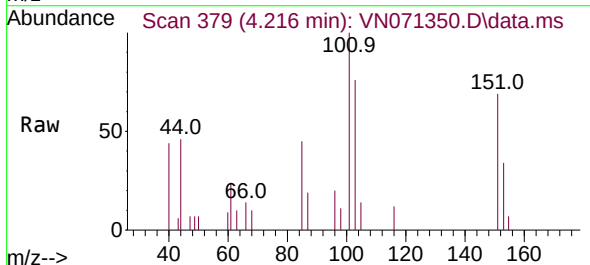
Instrument :
MSVOA_N
ClientSampleId :
TT-RW7A-IDWGW-20220315

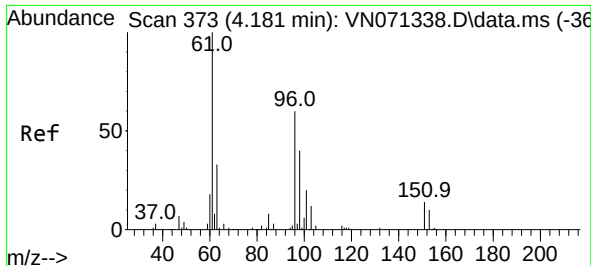
Tgt Ion: 50 Resp: 3024
Ion Ratio Lower Upper
50 100
52 32.9 27.8 41.6



#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.275 ug/l
RT: 4.216 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN071350.D
Acq: 17 Mar 2022 14:19

Tgt Ion: 101 Resp: 8064
Ion Ratio Lower Upper
101 100
85 33.0 0.0 94.0
151 46.7 0.0 74.6





#10

1,1-Dichloroethene

Concen: 0.403 ug/l

RT: 4.175 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN071350.D

Acq: 17 Mar 2022 14:19

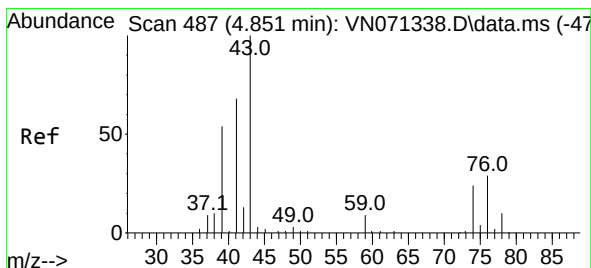
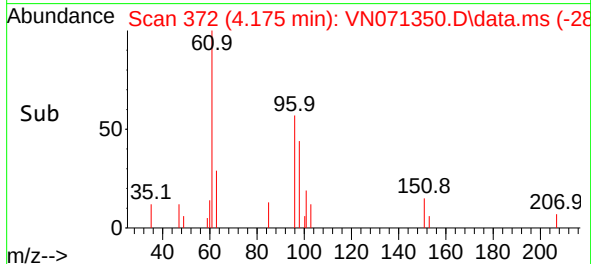
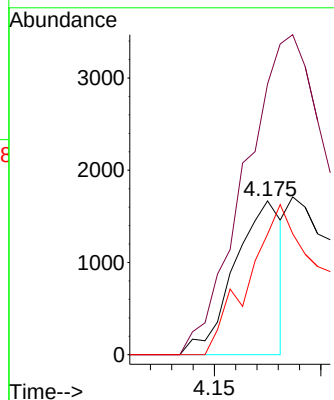
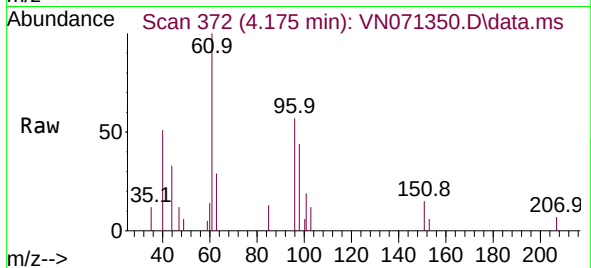
Instrument :

MSVOA_N

ClientSampleId :

TT-RW7A-IDWGW-20220315

Tgt Ion:	96	Resp:	2591
Ion	Ratio	Lower	Upper
96	100		
61	176.1	126.2	189.4
98	78.3	50.9	76.3#



#12

Methyl Acetate

Concen: 0.475 ug/l

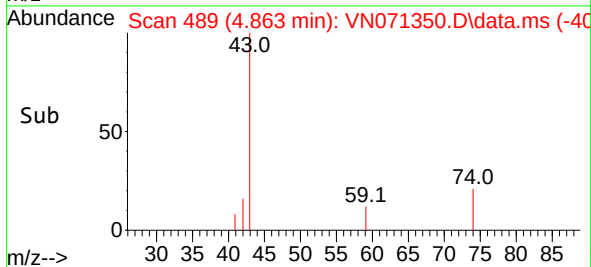
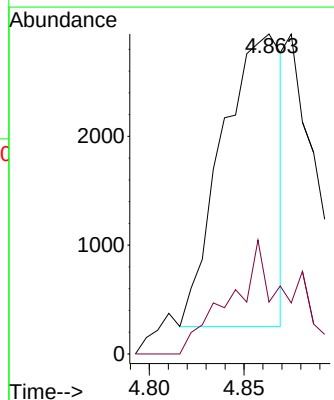
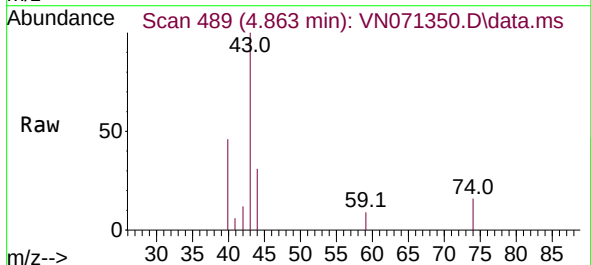
RT: 4.863 min Scan# 489

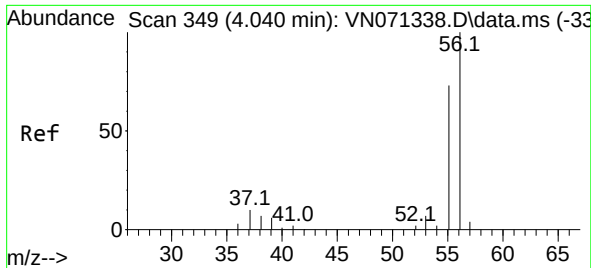
Delta R.T. 0.012 min

Lab File: VN071350.D

Acq: 17 Mar 2022 14:19

Tgt Ion:	43	Resp:	5855
Ion	Ratio	Lower	Upper
43	100		
74	11.4	20.8	31.2#





#13

Acrolein

Concen: 0.475 ug/l

RT: 4.046 min Scan# 3

Delta R.T. 0.006 min

Lab File: VN071350.D

Acq: 17 Mar 2022 14:19

Instrument :

MSVOA_N

ClientSampleId :

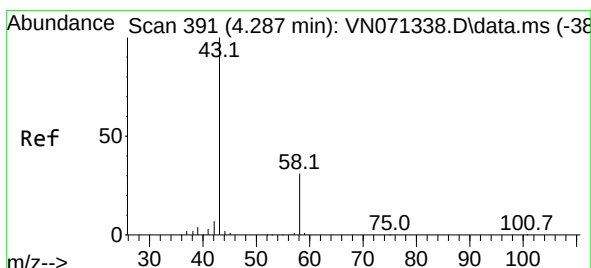
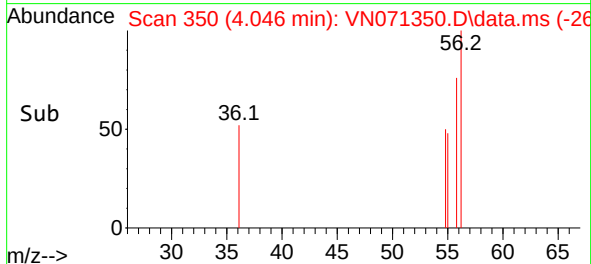
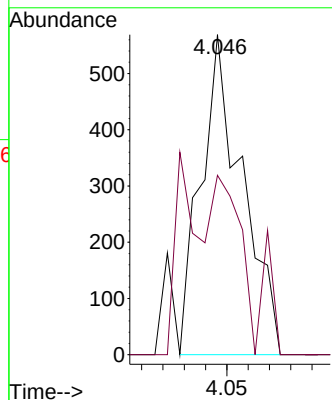
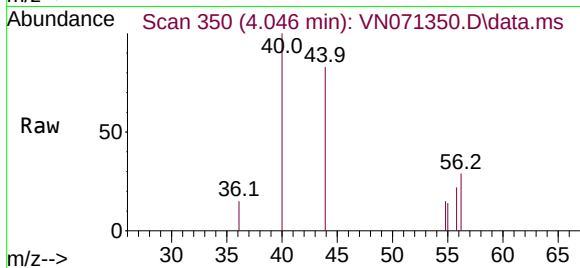
TT-RW7A-IDWGW-20220315

Tgt Ion: 56 Resp: 768

Ion Ratio Lower Upper

56 100

55 37.9 57.6 86.4#



#15

Acetone

Concen: 1.572 ug/l

RT: 4.281 min Scan# 390

Delta R.T. -0.006 min

Lab File: VN071350.D

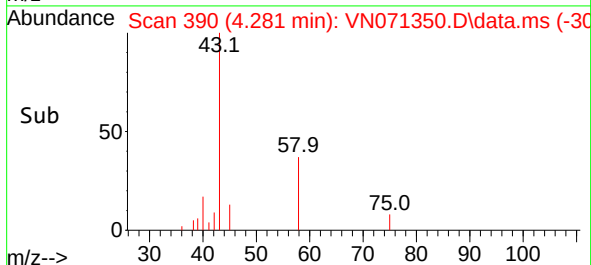
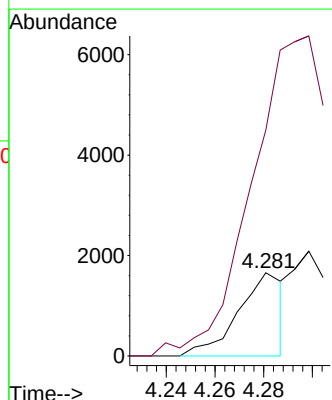
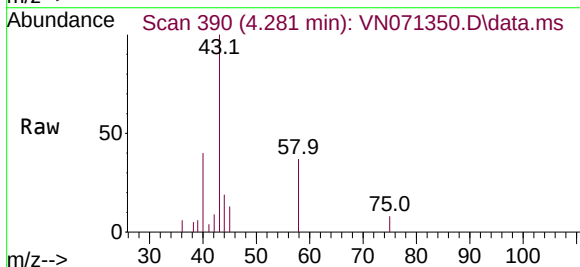
Acq: 17 Mar 2022 14:19

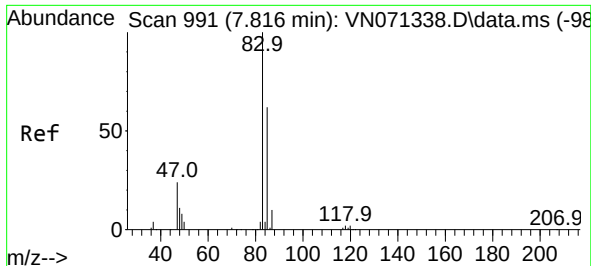
Tgt Ion: 58 Resp: 2122

Ion Ratio Lower Upper

58 100

43 261.6 256.6 384.8

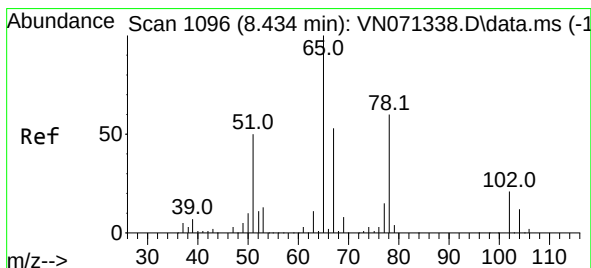
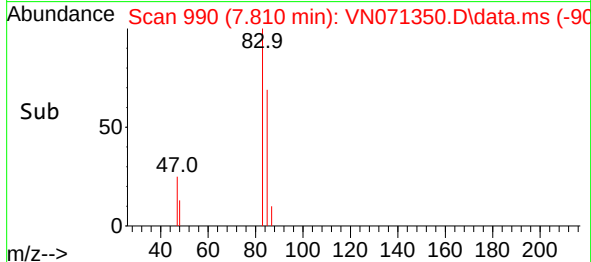
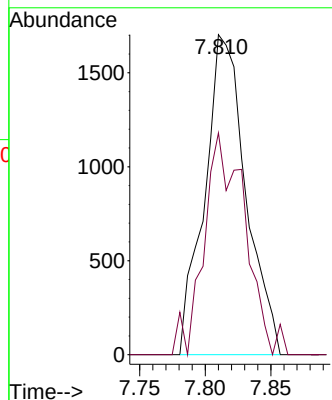
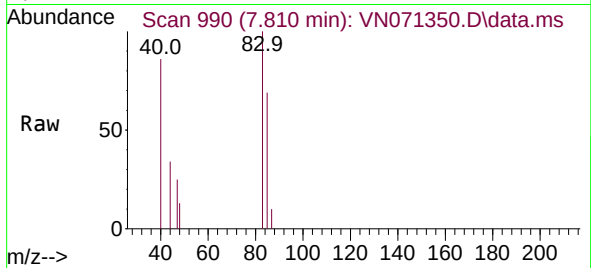




#25
Chloroform
Concen: 0.273 ug/l
RT: 7.810 min Scan# 991
Delta R.T. -0.006 min
Lab File: VN071350.D
Acq: 17 Mar 2022 14:19

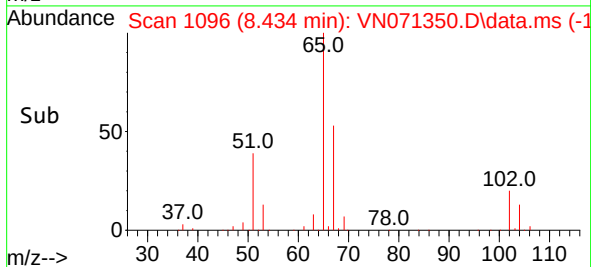
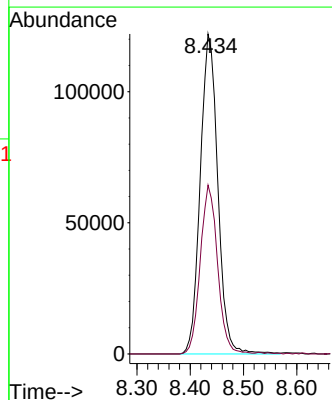
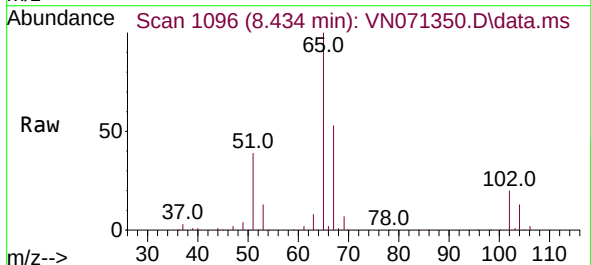
Instrument :
MSVOA_N
ClientSampleId :
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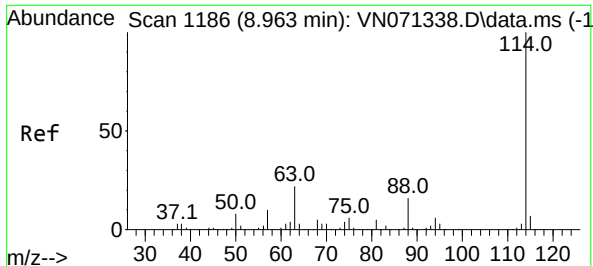
Tgt Ion: 83 Resp: 3729
Ion Ratio Lower Upper
83 100
85 59.8 51.3 76.9



#27
1,2-Dichloroethane-d4
Concen: 31.245 ug/l
RT: 8.434 min Scan# 1096
Delta R.T. -0.000 min
Lab File: VN071350.D
Acq: 17 Mar 2022 14:19

Tgt Ion: 65 Resp: 279290
Ion Ratio Lower Upper
65 100
67 52.0 40.2 60.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.969 min Scan# 1186

Delta R.T. 0.006 min

Lab File: VN071350.D

Acq: 17 Mar 2022 14:19

Instrument :

MSVOA_N

ClientSampleId :

TT-RW7A-IDWGW-20220315

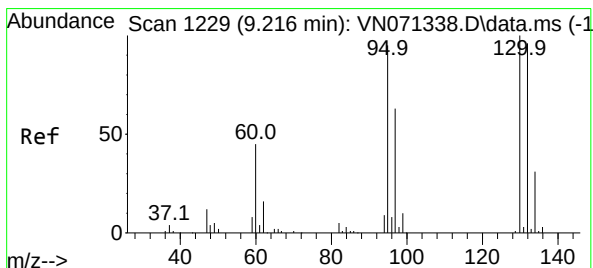
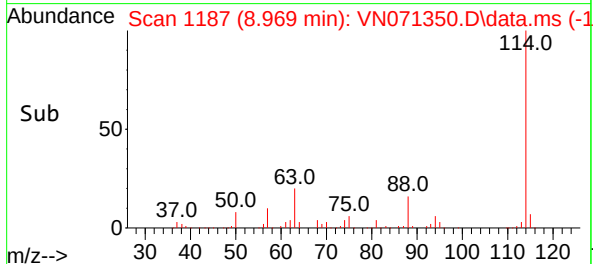
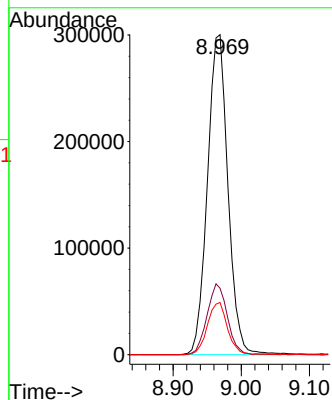
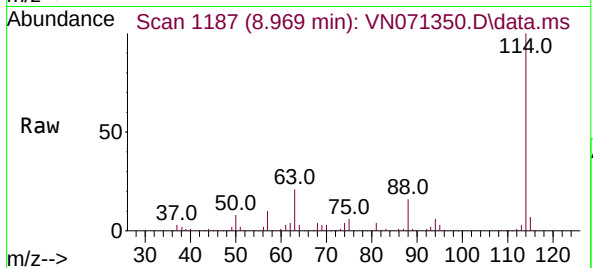
Tgt Ion:114 Resp: 627952

Ion Ratio Lower Upper

114 100

63 21.9 15.8 23.6

88 15.9 11.6 17.4



#37

Trichloroethene

Concen: 18.974 ug/l

RT: 9.210 min Scan# 1228

Delta R.T. -0.006 min

Lab File: VN071350.D

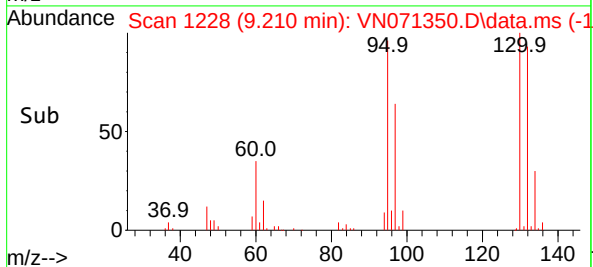
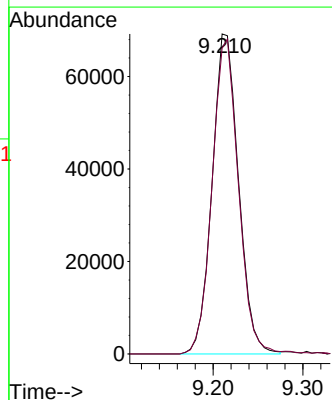
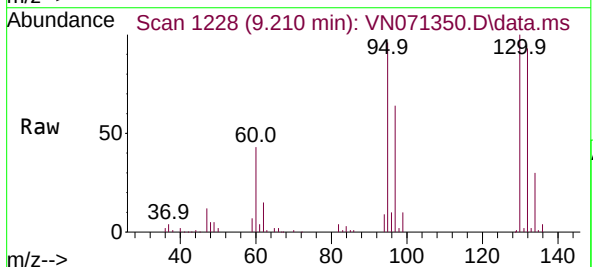
Acq: 17 Mar 2022 14:19

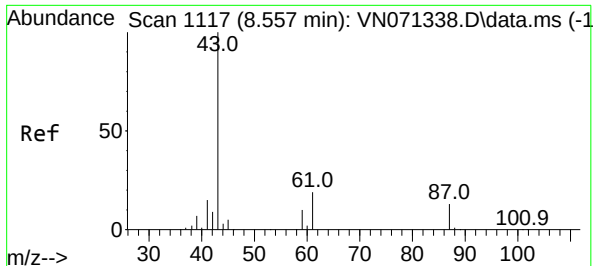
Tgt Ion:130 Resp: 141434

Ion Ratio Lower Upper

130 100

95 95.6 76.6 115.0

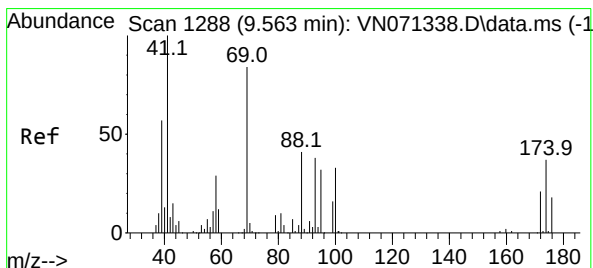
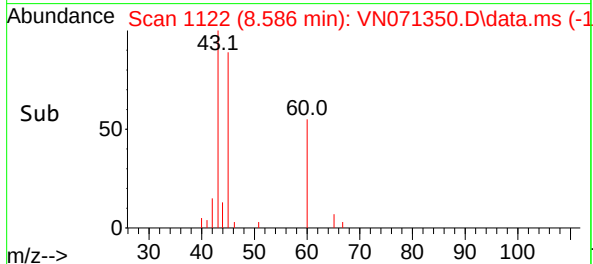
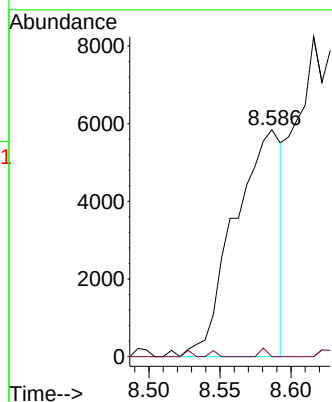
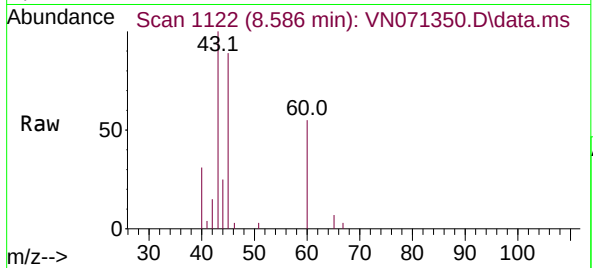




#44
Isopropyl Acetate
Concen: 0.598 ug/l
RT: 8.586 min Scan# 1117
Delta R.T. 0.029 min
Lab File: VN071350.D
Acq: 17 Mar 2022 14:19

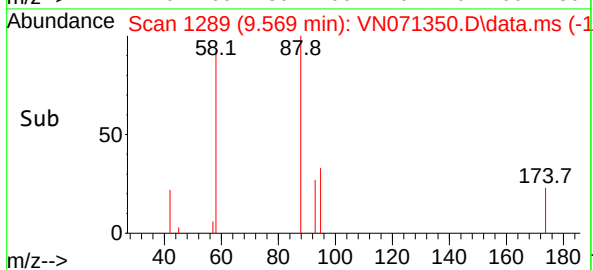
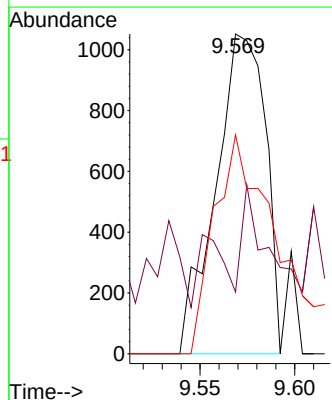
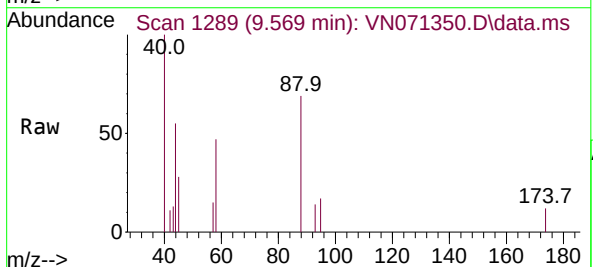
Instrument :
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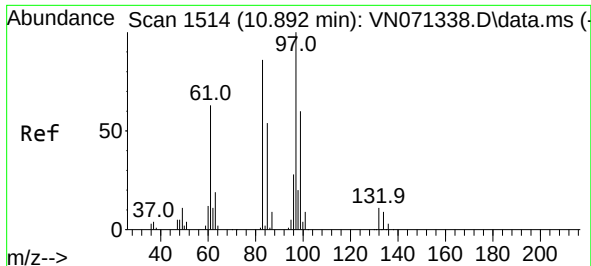
Tgt Ion: 43 Resp: 13382
Ion Ratio Lower Upper
43 100
61 0.0 20.1 30.1#



#45
1,4-Dioxane
Concen: 9.675 ug/l
RT: 9.569 min Scan# 1289
Delta R.T. 0.006 min
Lab File: VN071350.D
Acq: 17 Mar 2022 14:19

Tgt Ion: 88 Resp: 1928
Ion Ratio Lower Upper
88 100
43 16.4 25.0 37.6#
58 45.7 49.4 74.2#

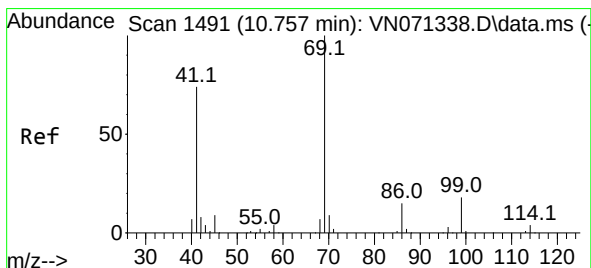
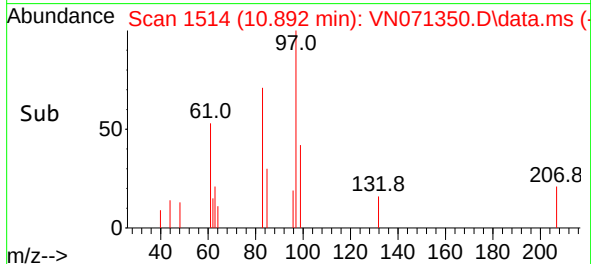
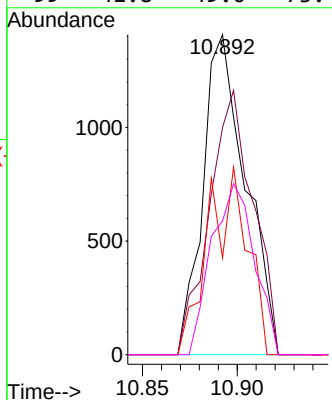
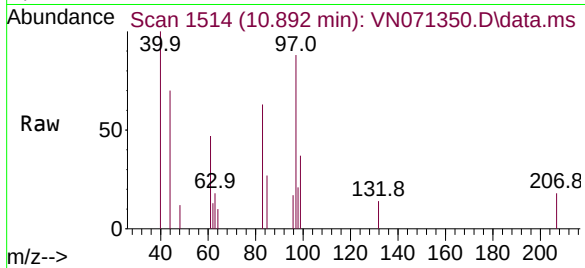




#50
1,1,2-Trichloroethane
Concen: 0.290 ug/l
RT: 10.892 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN071350.D
Acq: 17 Mar 2022 14:19

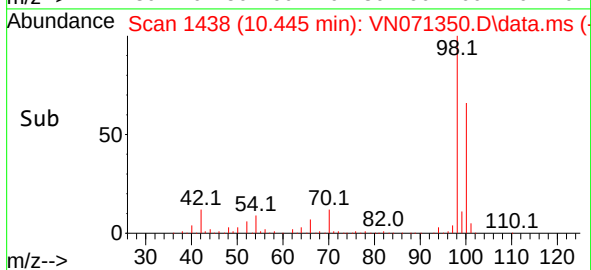
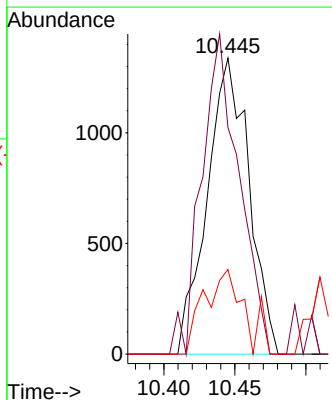
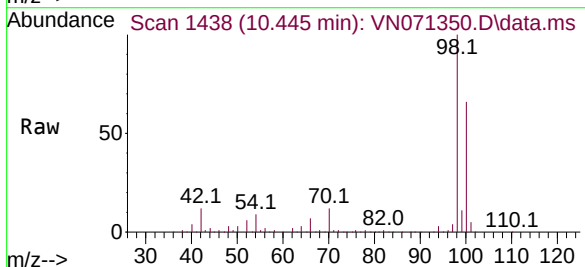
Instrument :
MSVOA_N
ClientSampleId :
TT-RW7A-IDWGW-20220315

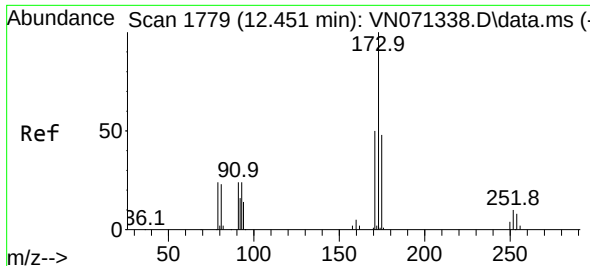
Tgt Ion: 97	Resp: 2213
Ion Ratio	Lower Upper
97 100	
83 71.0	67.2 100.8
85 30.3	43.0 64.4#
99 41.8	49.0 73.4#



#51
Ethyl methacrylate
Concen: 0.209 ug/l
RT: 10.445 min Scan# 1438
Delta R.T. -0.312 min
Lab File: VN071350.D
Acq: 17 Mar 2022 14:19

Tgt Ion: 69	Resp: 2741
Ion Ratio	Lower Upper
69 100	
41 76.5	33.0 98.9
39 28.6	25.4 76.4

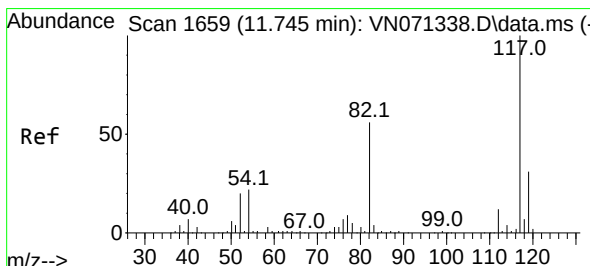
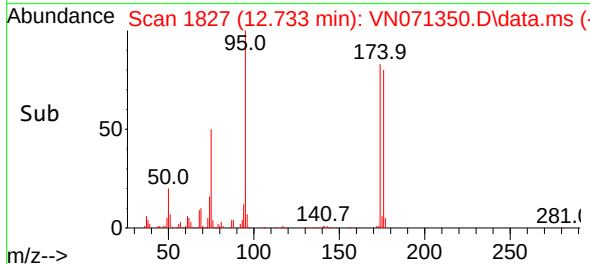
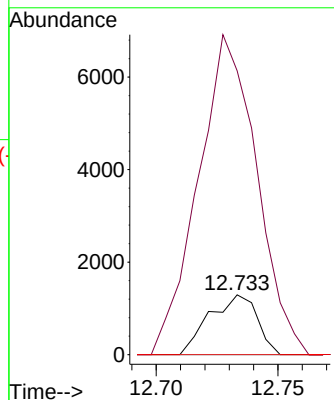
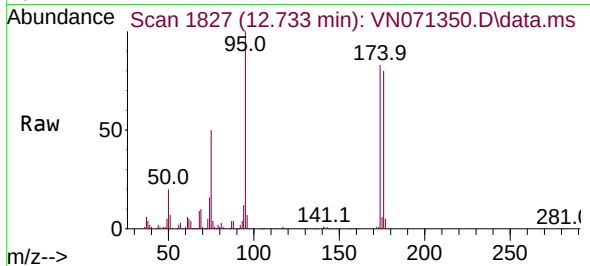




#56
Bromoform
Concen: 0.287 ug/l
RT: 12.733 min Scan# 1827
Delta R.T. 0.282 min
Lab File: VN071350.D
Acq: 17 Mar 2022 14:19

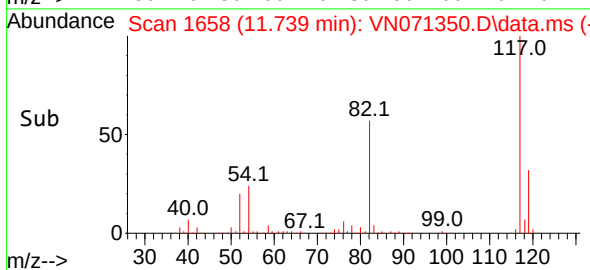
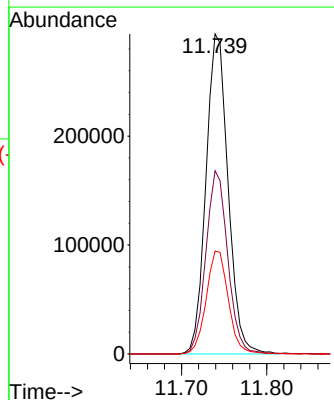
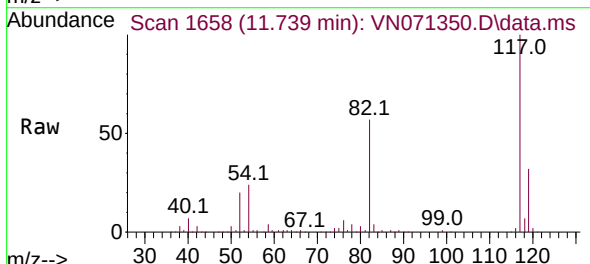
Instrument :
MSVOA_N
ClientSampleId :
TT-RW7A-IDWGW-20220315

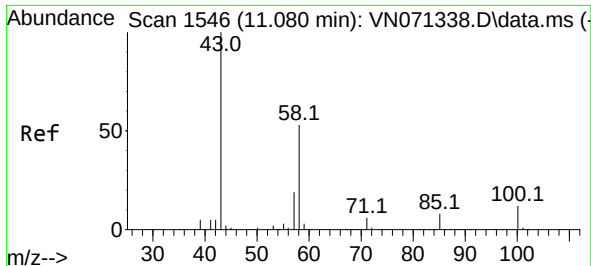
Tgt Ion:173 Resp: 1761
Ion Ratio Lower Upper
173 100
175 658.0 38.6 58.0#
254 0.0 0.0 0.0



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. -0.006 min
Lab File: VN071350.D
Acq: 17 Mar 2022 14:19

Tgt Ion:117 Resp: 529524
Ion Ratio Lower Upper
117 100
82 56.7 43.6 65.4
119 32.2 25.8 38.6

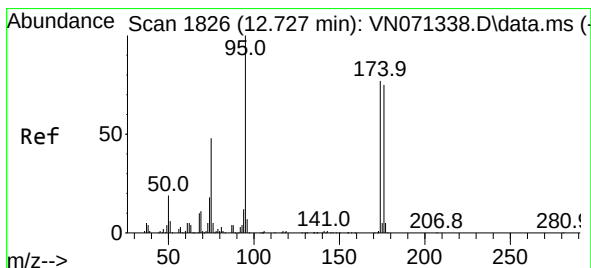
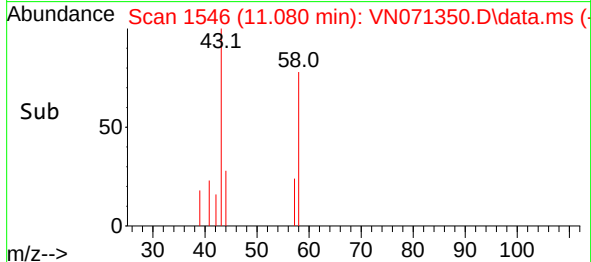
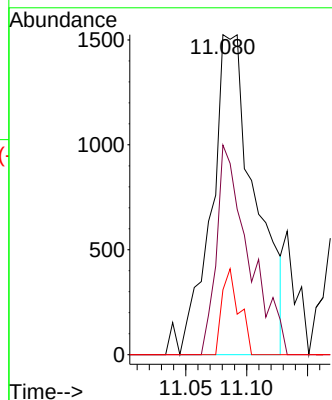
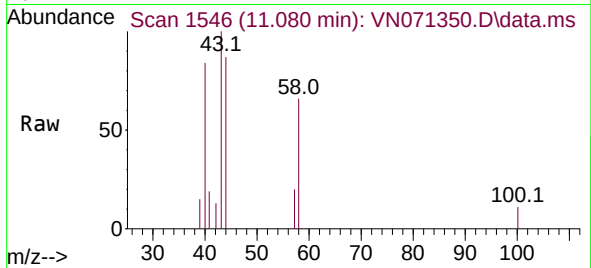




#59
2-Hexanone
Concen: 0.403 ug/l
RT: 11.080 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN071350.D
Acq: 17 Mar 2022 14:19

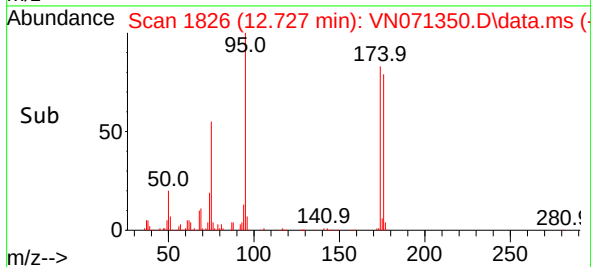
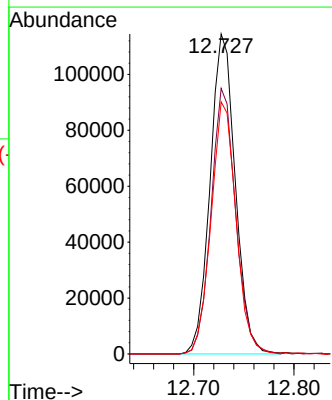
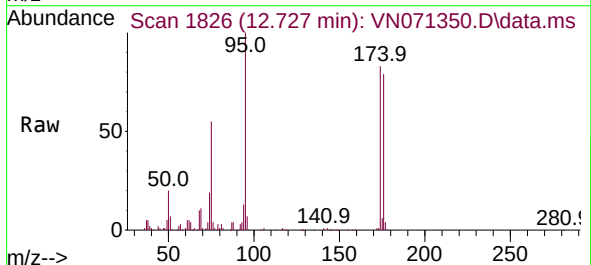
Instrument :
MSVOA_N
ClientSampleId :
TT-RW7A-IDWGW-20220315

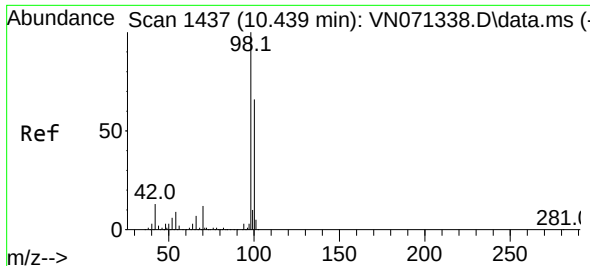
Tgt Ion: 43 Resp: 3811
Ion Ratio Lower Upper
43 100
58 44.1 42.2 63.2
57 10.4 15.0 22.4#



#60
4-Bromofluorobenzene
Concen: 24.382 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN071350.D
Acq: 17 Mar 2022 14:19

Tgt Ion: 95 Resp: 199462
Ion Ratio Lower Upper
95 100
174 81.2 62.9 94.3
176 78.2 61.0 91.4

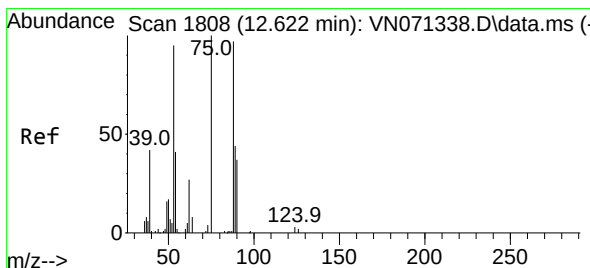
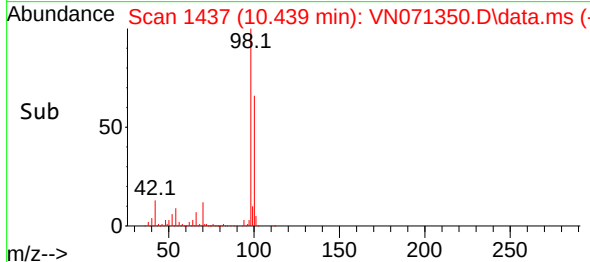
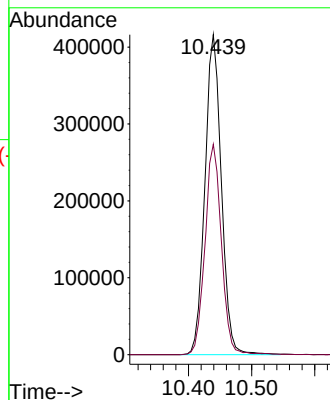
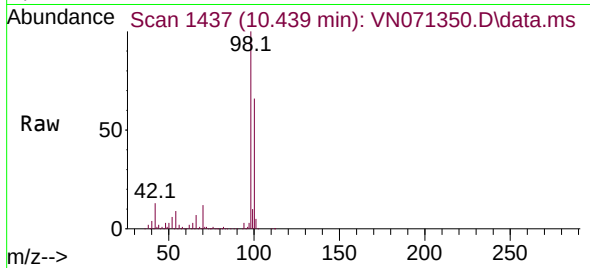




#63
Toluene-d8
Concen: 30.958 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VN071350.D
Acq: 17 Mar 2022 14:19

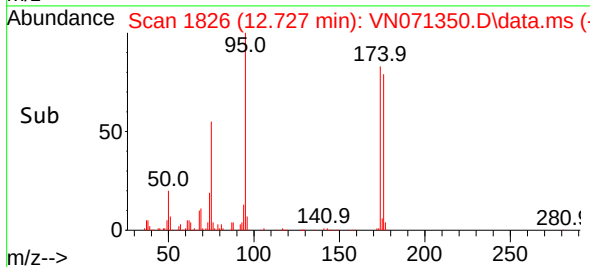
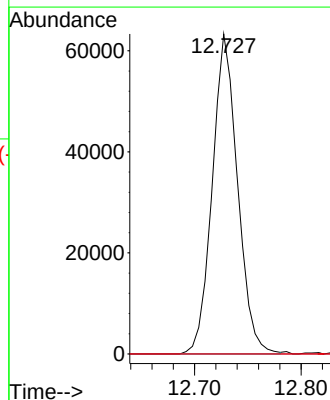
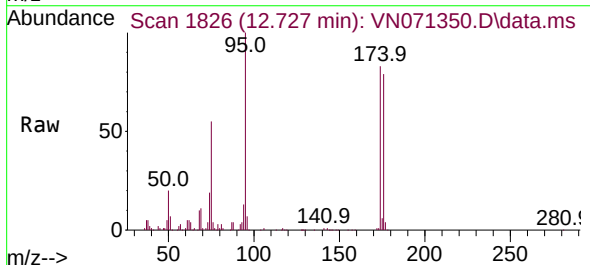
Instrument :
MSVOA_N
ClientSampleId :
TT-RW7A-IDWGW-20220315

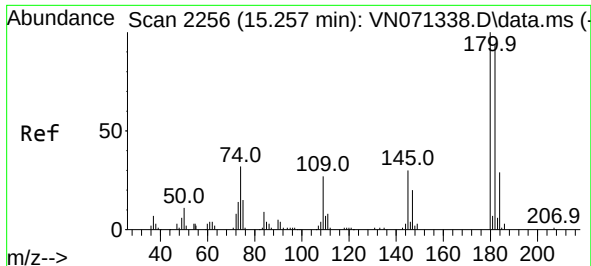
Tgt Ion: 98 Resp: 754097
Ion Ratio Lower Upper
98 100
100 65.2 50.6 76.0



#77
t-1,4-Dichloro-2-butene
Concen: 31.287 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.106 min
Lab File: VN071350.D
Acq: 17 Mar 2022 14:19

Tgt Ion: 75 Resp: 104269
Ion Ratio Lower Upper
75 100
53 0.0 51.8 155.5#
89 0.0 22.9 68.7#

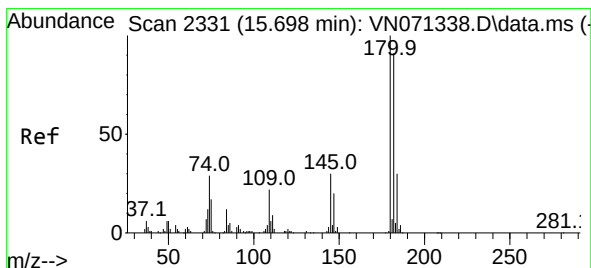
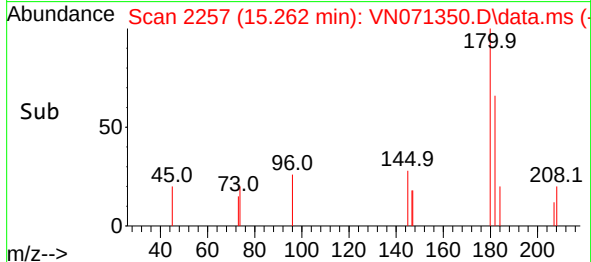
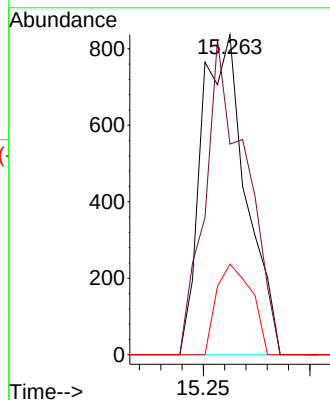
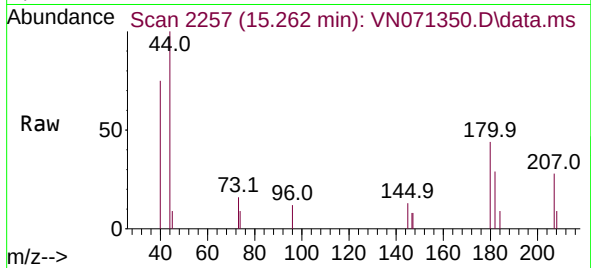




#89
 1,2,4-Trichlorobenzene
 Concen: 0.223 ug/l
 RT: 15.262 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN071350.D
 Acq: 17 Mar 2022 14:19

Instrument :
 MSVOA_N
 ClientSampleId :
 TT-RW7A-IDWGW-20220315

Tgt Ion:180 Resp: 1220
 Ion Ratio Lower Upper
 180 100
 182 90.5 77.7 116.5
 145 22.3 26.6 39.8#



#92
 1,2,3-Trichlorobenzene
 Concen: 0.234 ug/l
 RT: 15.698 min Scan# 2331
 Delta R.T. -0.000 min
 Lab File: VN071350.D
 Acq: 17 Mar 2022 14:19

Tgt Ion:180 Resp: 1316
 Ion Ratio Lower Upper
 180 100
 182 57.5 0.0 190.0
 145 11.4 0.0 67.8

