

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061523\
 Data File : VX036174.D
 Acq On : 15 Jun 2023 17:02
 Operator : JC/MD
 Sample : 03278-02RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RW5A-IDWGW-20230614

Quant Time: Jun 16 07:57:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X052323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 23 11:36:37 2023
 Response via : Initial Calibration

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

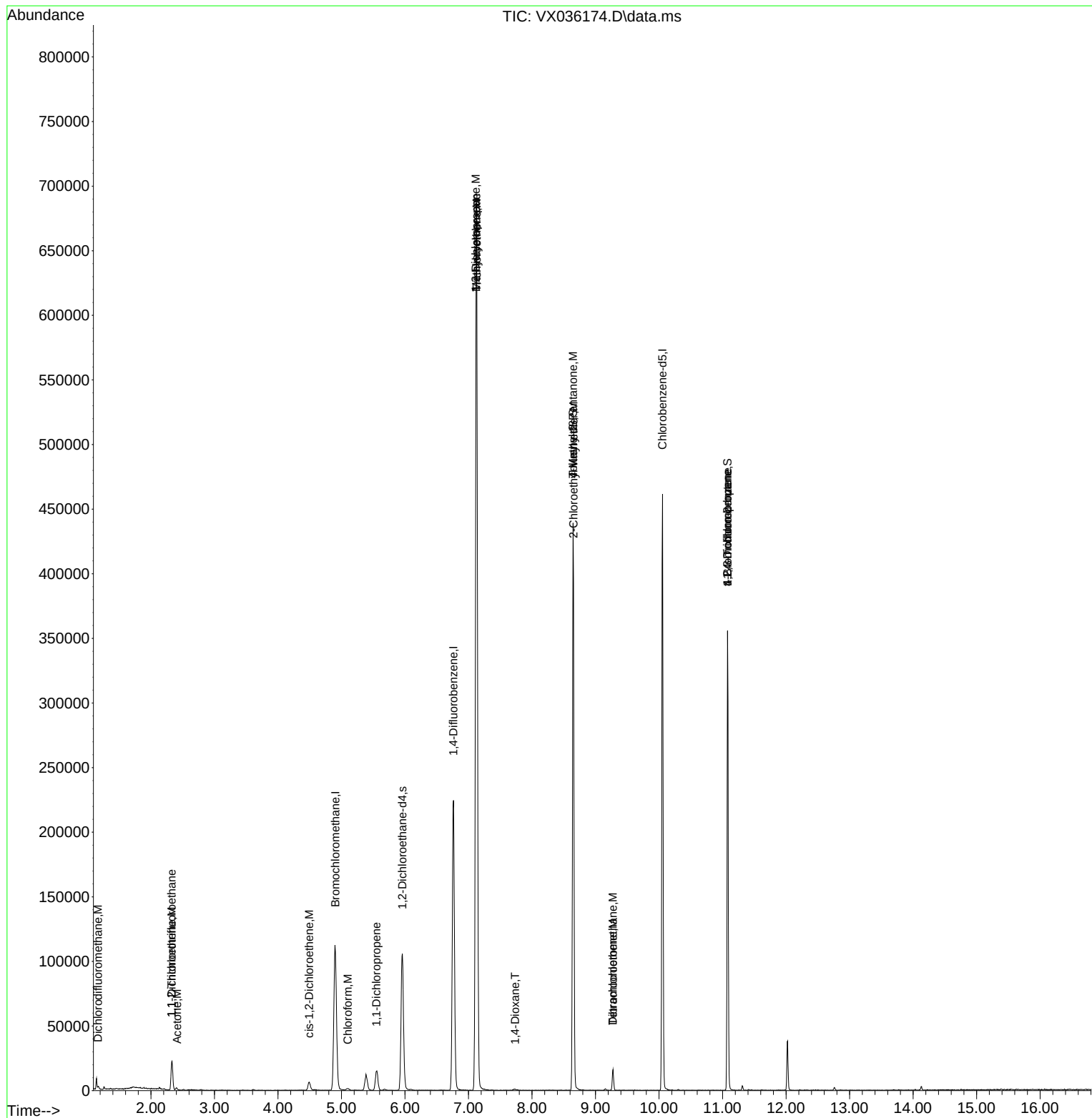
Internal Standards						
1) Bromochloromethane	4.904	128	42406	30.000	ug/l	0.01
28) 1,4-Difluorobenzene	6.763	114	207675	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	186348	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	111223	31.566	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	105.233%
60) 4-Bromofluorobenzene	11.079	95	93535	29.913	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	99.700%
63) Toluene-d8	8.647	98	244080	29.628	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.767%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	593	0.273	ug/l	90
9) 1,1,2-Trichlorotrifluo...	2.325	101	7920	3.884	ug/l	96
10) 1,1-Dichloroethene	2.325	96	1296	0.610	ug/l #	73
15) Acetone	2.410	58	306	0.679	ug/l #	1
22) cis-1,2-Dichloroethene	4.489	96	3837	1.294	ug/l	90
25) Chloroform	5.099	83	1582	0.318	ug/l	89
29) 1,1-Dichloropropene	5.550	75	1369	0.473	ug/l #	52
37) Trichloroethene	7.129	130	244554	106.641	ug/l	93
38) Methylcyclohexane	7.123	83	3480	1.097	ug/l #	1
39) 1,2-Dichloropropane	7.117	63	1058	0.431	ug/l #	1
45) 1,4-Dioxane	7.732	88	601	10.752	ug/l #	53
53) Dibromochloromethane	9.275	129	2248	1.032	ug/l #	10
55) 2-Chloroethyl vinyl ether	8.653	63	396	0.204	ug/l #	1
58) 4-Methyl-2-Pentanone	8.647	43	1407	0.389	ug/l #	1
61) Tetrachloroethene	9.275	164	2201	1.226	ug/l #	84
72) 1,2,3-Trichloropropane	11.079	75	51895	16.219	ug/l	40
77) t-1,4-Dichloro-2-butene	11.079	75	51895	53.766	ug/l #	4

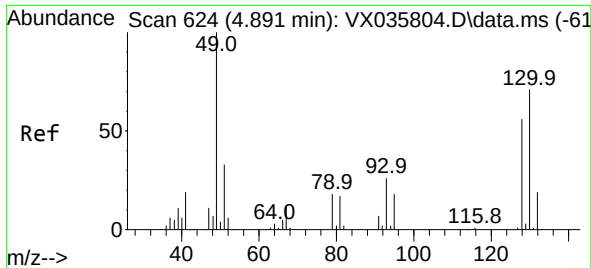
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue May 23 11:36:37 2023
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.904 min Scan# 61

Delta R.T. 0.013 min

Lab File: VX036174.D

Acq: 15 Jun 2023 17:02

Instrument :

MSVOA_X

ClientSampleId :

RW5A-IDW/GW-20230614

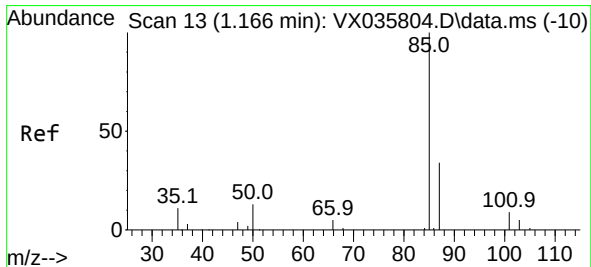
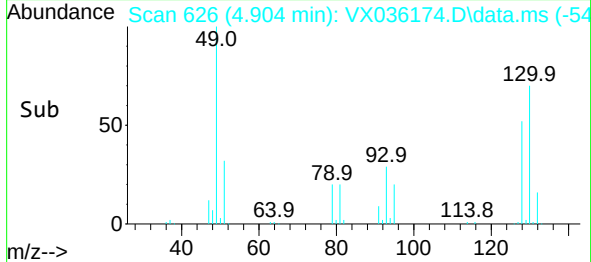
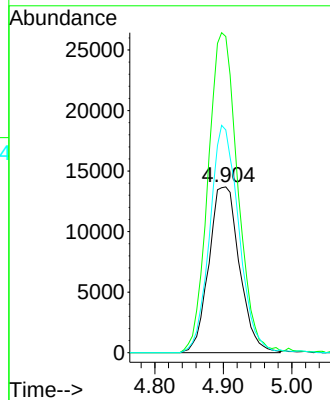
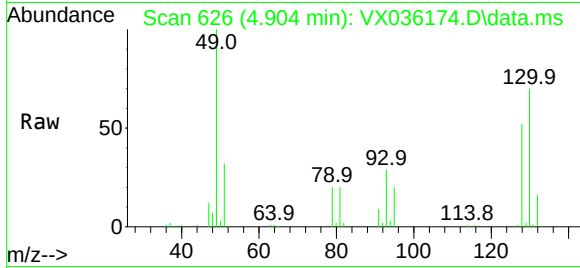
Tgt Ion:128 Resp: 42406

Ion Ratio Lower Upper

128 100

49 186.7 0.0 428.8

130 130.2 0.0 310.8



#2

Dichlorodifluoromethane

Concen: 0.273 ug/l

RT: 1.166 min Scan# 13

Delta R.T. 0.000 min

Lab File: VX036174.D

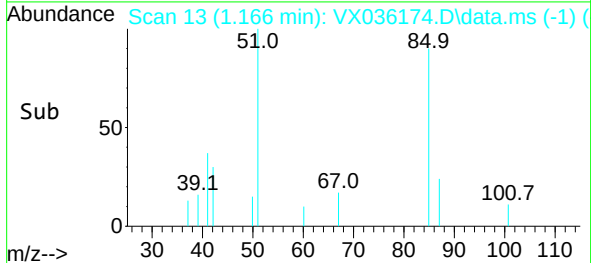
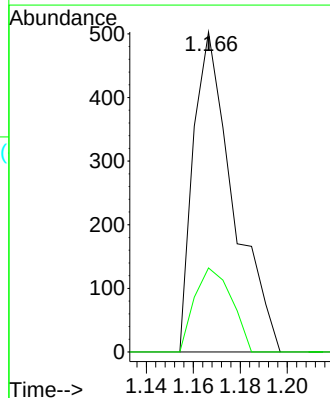
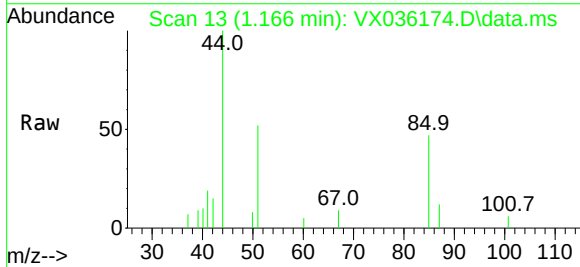
Acq: 15 Jun 2023 17:02

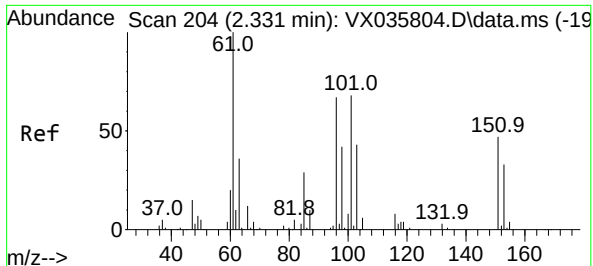
Tgt Ion: 85 Resp: 593

Ion Ratio Lower Upper

85 100

87 26.2 16.0 48.0

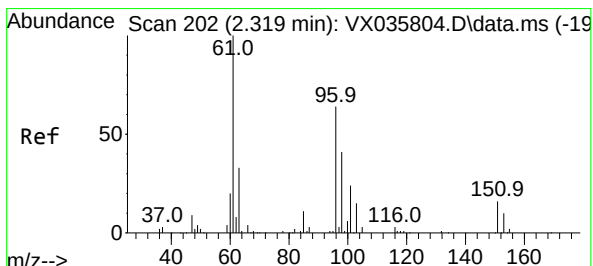
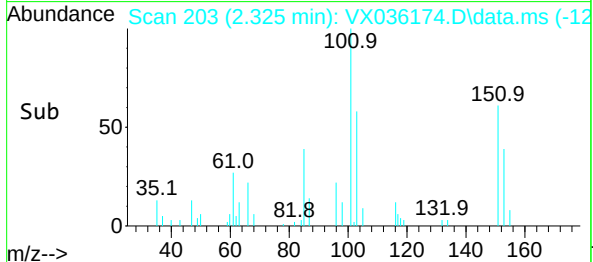
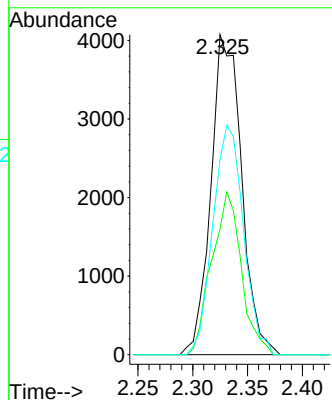
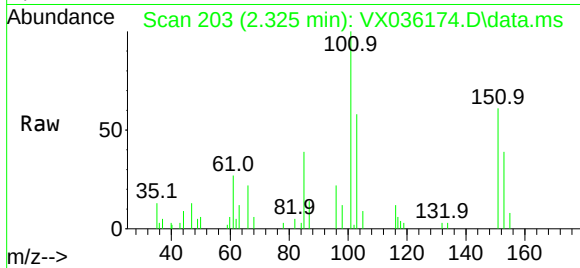




#9
1,1,2-Trichlorotrifluoroethane
Concen: 3.884 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.006 min
Lab File: VX036174.D
Acq: 15 Jun 2023 17:02

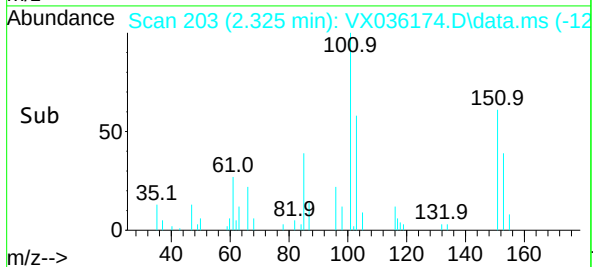
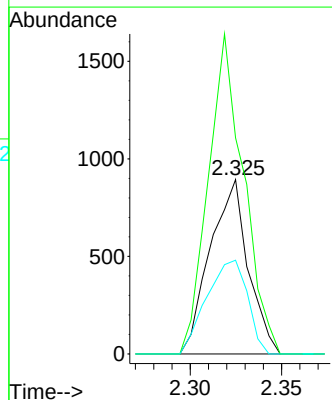
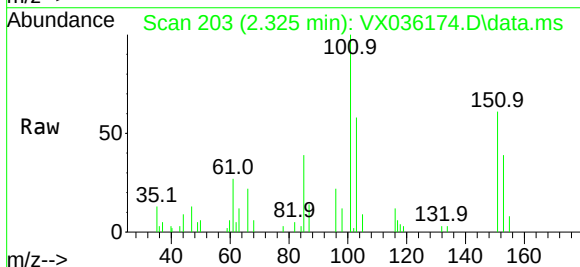
Instrument :
MSVOA_X
ClientSampleId :
RW5A-IDW/GW-20230614

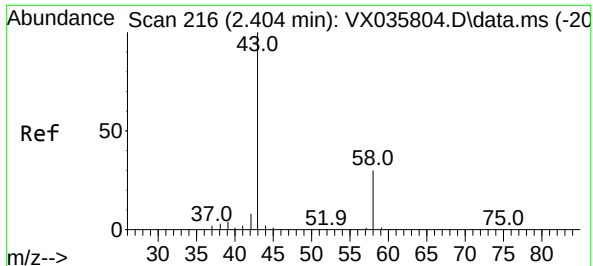
Tgt Ion:101 Resp: 7920
Ion Ratio Lower Upper
101 100
85 49.2 0.0 88.8
151 71.7 0.0 147.6



#10
1,1-Dichloroethene
Concen: 0.610 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.006 min
Lab File: VX036174.D
Acq: 15 Jun 2023 17:02

Tgt Ion: 96 Resp: 1296
Ion Ratio Lower Upper
96 100
61 123.9 135.8 203.6#
98 53.8 49.8 74.6





#15

Acetone

Concen: 0.679 ug/l

RT: 2.410 min Scan# 216

Delta R.T. 0.006 min

Lab File: VX036174.D

Acq: 15 Jun 2023 17:02

Instrument :

MSVOA_X

ClientSampleId :

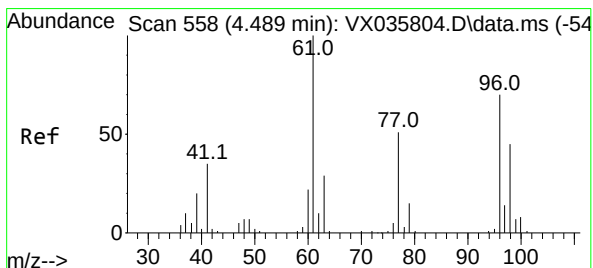
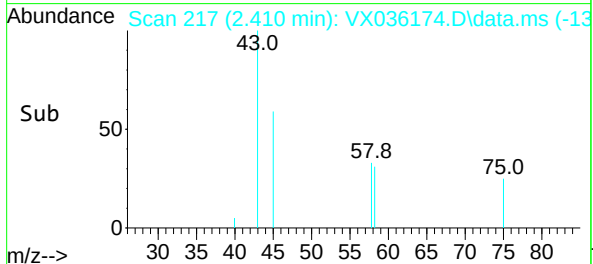
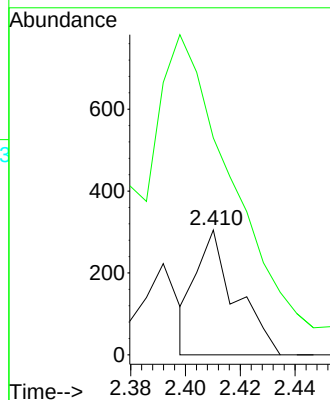
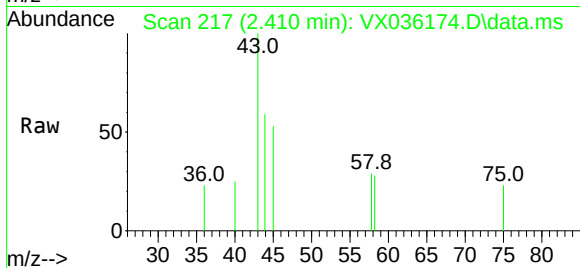
RW5A-IDW/GW-20230614

Tgt Ion: 58 Resp: 306

Ion Ratio Lower Upper

58 100

43 123.6 270.8 406.2#



#22

cis-1,2-Dichloroethene

Concen: 1.294 ug/l

RT: 4.489 min Scan# 558

Delta R.T. 0.000 min

Lab File: VX036174.D

Acq: 15 Jun 2023 17:02

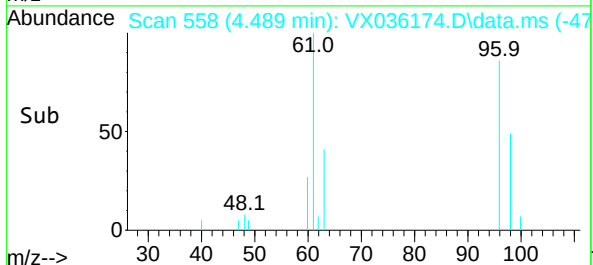
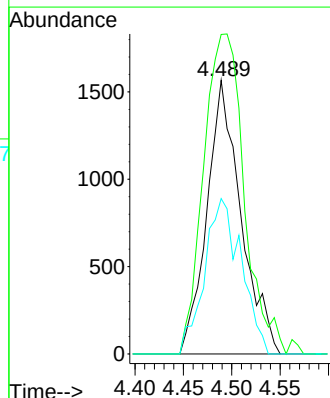
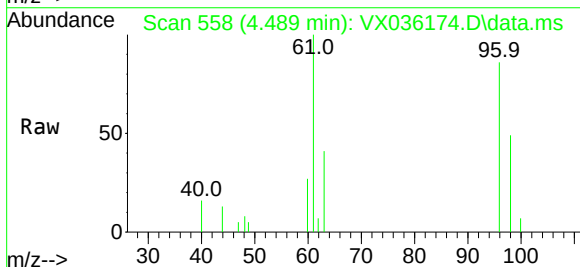
Tgt Ion: 96 Resp: 3837

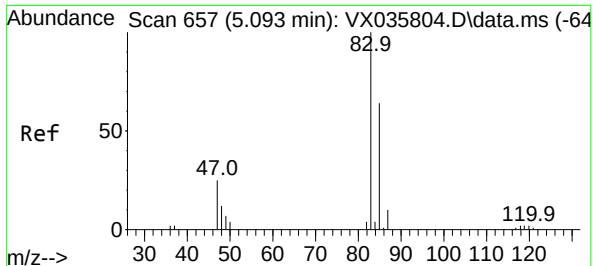
Ion Ratio Lower Upper

96 100

61 136.5 121.7 182.5

98 61.1 52.2 78.2

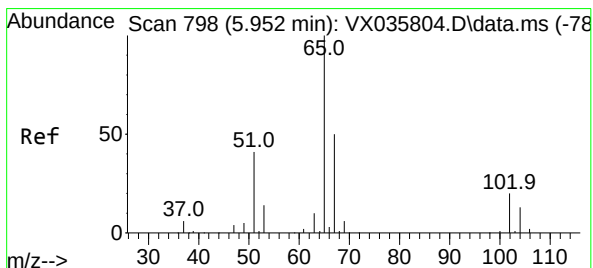
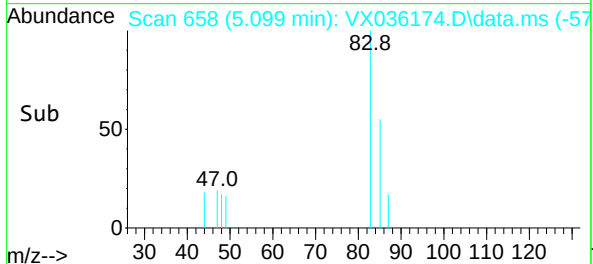
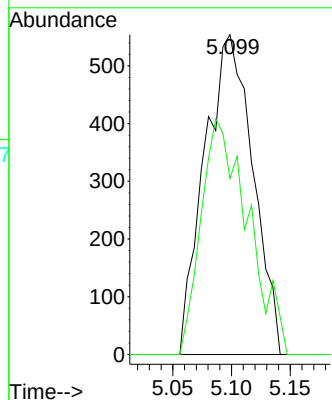
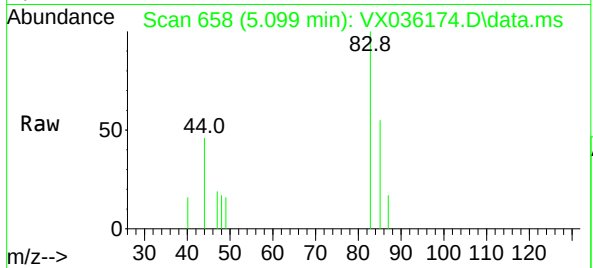




#25
Chloroform
Concen: 0.318 ug/l
RT: 5.099 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX036174.D
Acq: 15 Jun 2023 17:02

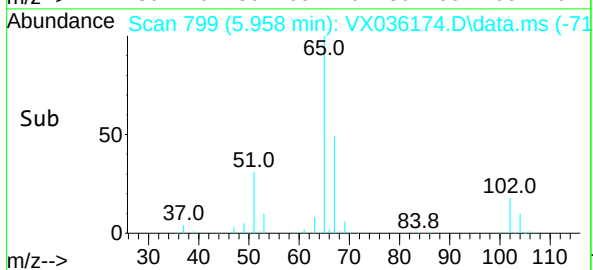
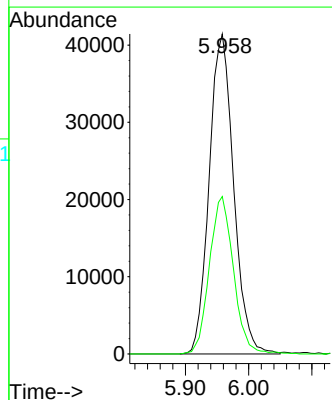
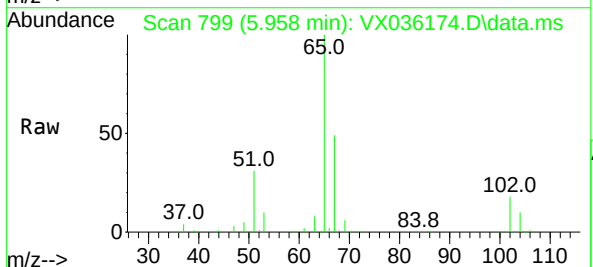
Instrument :
MSVOA_X
ClientSampleId :
RW5A-IDW/GW-20230614

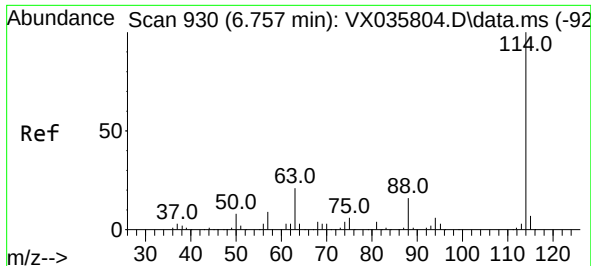
Tgt Ion: 83 Resp: 1582
Ion Ratio Lower Upper
83 100
85 55.1 51.2 76.8



#27
1,2-Dichloroethane-d4
Concen: 31.566 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.006 min
Lab File: VX036174.D
Acq: 15 Jun 2023 17:02

Tgt Ion: 65 Resp: 111223
Ion Ratio Lower Upper
65 100
67 48.2 40.9 61.3

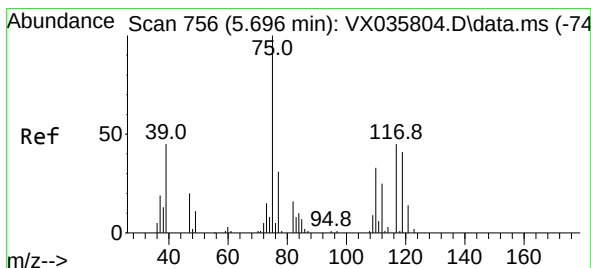
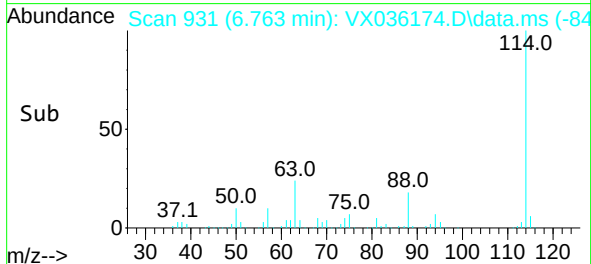
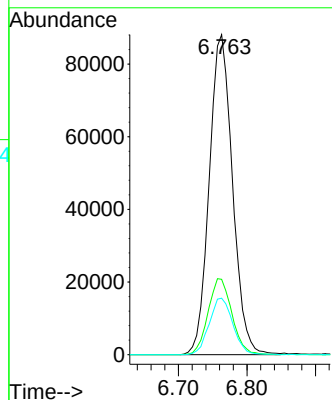
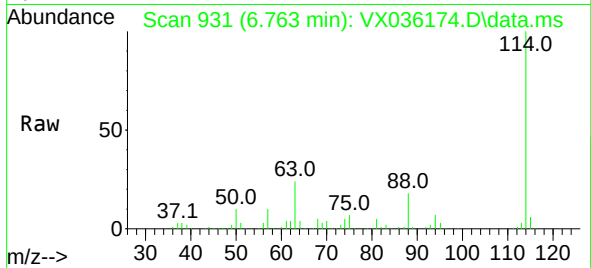




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.763 min Scan# 91
 Delta R.T. 0.006 min
 Lab File: VX036174.D
 Acq: 15 Jun 2023 17:02

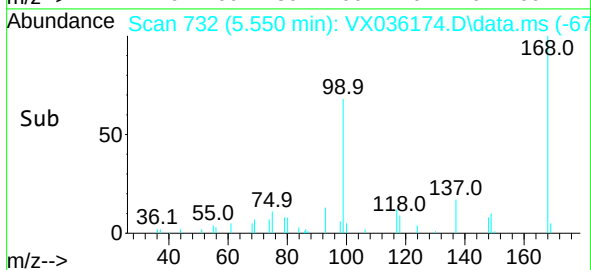
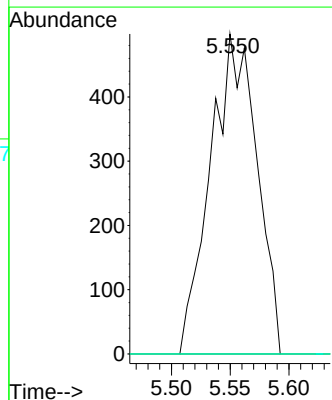
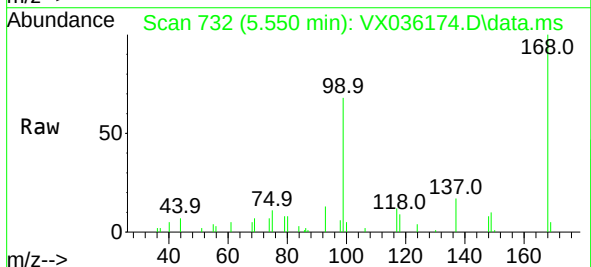
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 MSVOA_X
 ClientSampleId :
 RW5A-IDW/GW-20230614

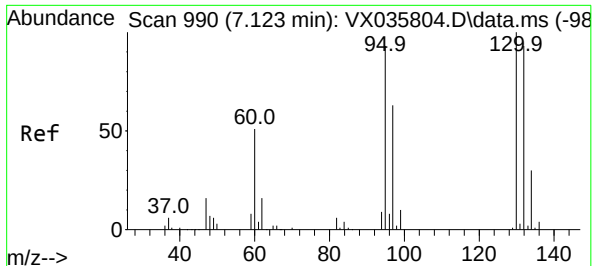
Tgt Ion:114 Resp: 207675
 Ion Ratio Lower Upper
 114 100
 63 24.3 18.0 27.0
 88 18.0 13.3 19.9



#29
 1,1-Dichloropropene
 Concen: 0.473 ug/l
 RT: 5.550 min Scan# 732
 Delta R.T. -0.146 min
 Lab File: VX036174.D
 Acq: 15 Jun 2023 17:02

Tgt Ion: 75 Resp: 1369
 Ion Ratio Lower Upper
 75 100
 110 11.8 0.0 71.4
 77 0.0 0.0 61.6





#37

Trichloroethene

Concen: 106.641 ug/l

RT: 7.129 min Scan# 990

Delta R.T. 0.006 min

Lab File: VX036174.D

Acq: 15 Jun 2023 17:02

Instrument :

MSVOA_X

ClientSampleId :

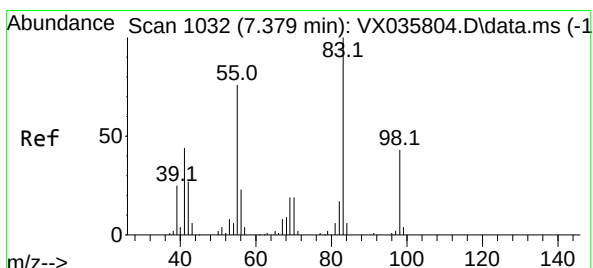
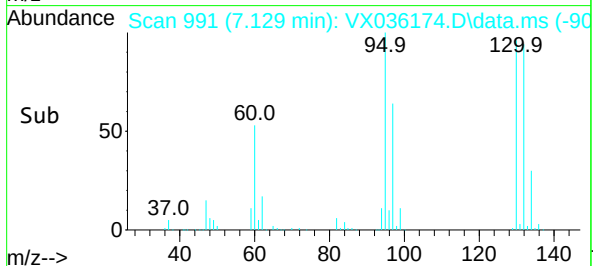
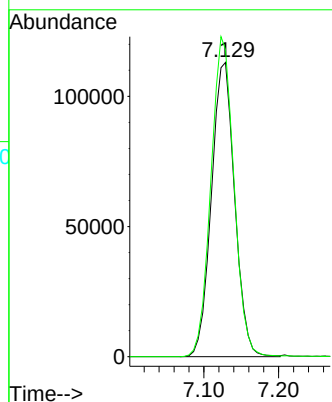
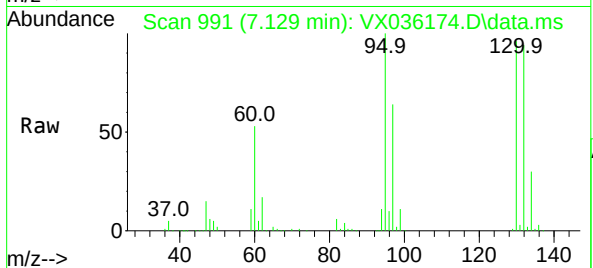
RW5A-IDW/GW-20230614

Tgt Ion:130 Resp: 244554

Ion Ratio Lower Upper

130 100

95 104.4 77.8 116.6



#38

Methylcyclohexane

Concen: 1.097 ug/l

RT: 7.123 min Scan# 990

Delta R.T. -0.256 min

Lab File: VX036174.D

Acq: 15 Jun 2023 17:02

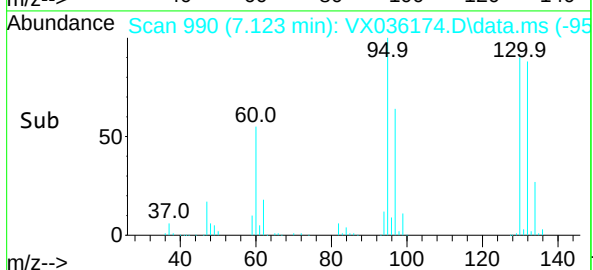
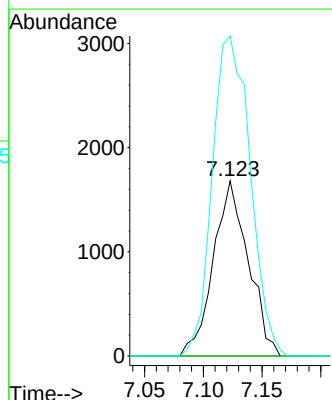
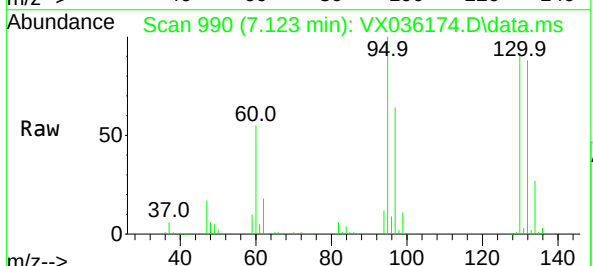
Tgt Ion: 83 Resp: 3480

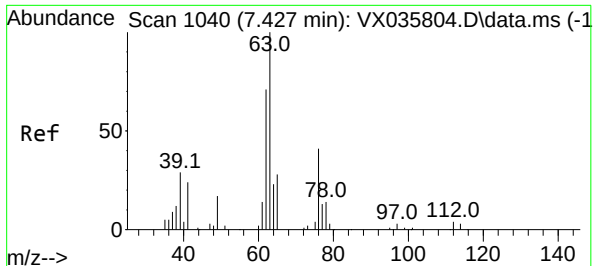
Ion Ratio Lower Upper

83 100

55 0.0 38.8 116.4#

98 198.2 23.8 71.2#





#39

1,2-Dichloropropane

Concen: 0.431 ug/l

RT: 7.117 min Scan# 91

Delta R.T. -0.311 min

Lab File: VX036174.D

Acq: 15 Jun 2023 17:02

Instrument :

MSVOA_X

ClientSampleId :

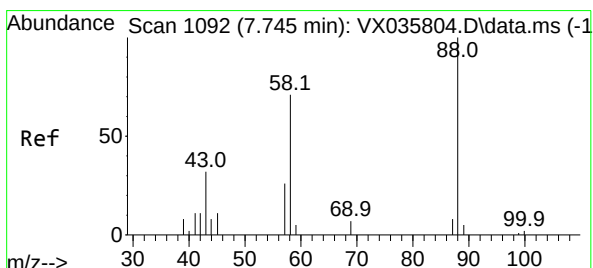
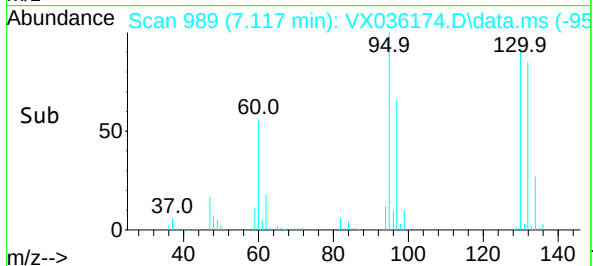
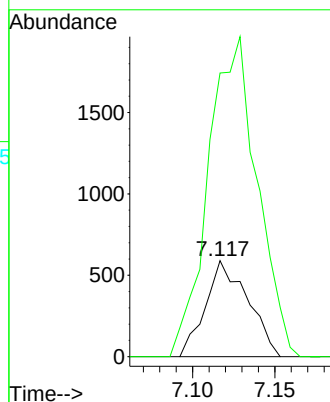
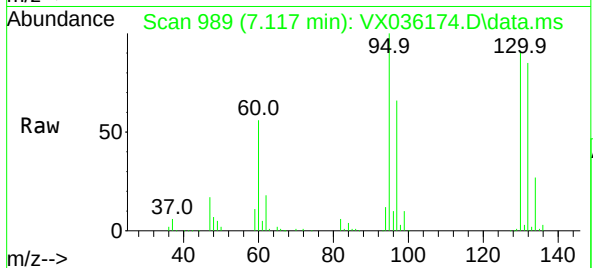
RW5A-IDW/GW-20230614

Tgt Ion: 63 Resp: 1058

Ion Ratio Lower Upper

63 100

65 265.3 24.0 36.0#



#45

1,4-Dioxane

Concen: 10.752 ug/l

RT: 7.732 min Scan# 1090

Delta R.T. -0.012 min

Lab File: VX036174.D

Acq: 15 Jun 2023 17:02

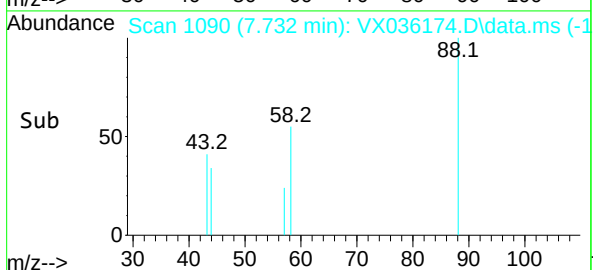
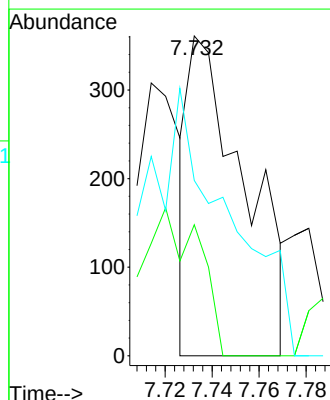
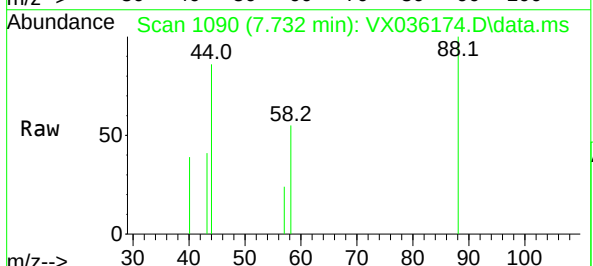
Tgt Ion: 88 Resp: 601

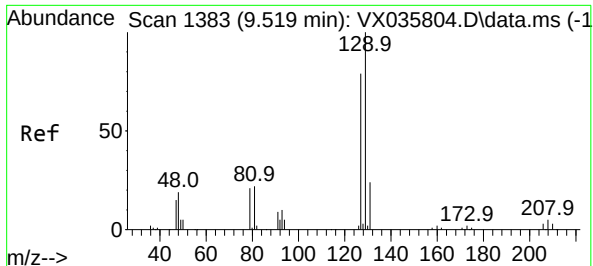
Ion Ratio Lower Upper

88 100

43 37.9 26.5 39.7

58 16.1 55.6 83.4#

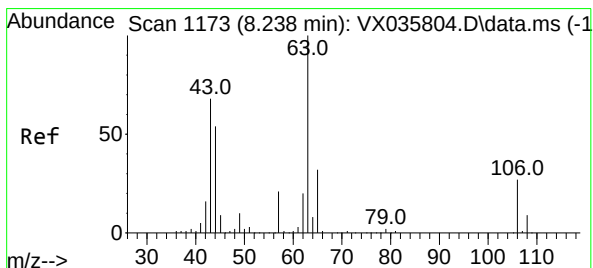
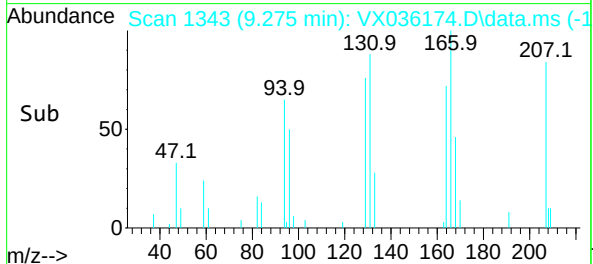
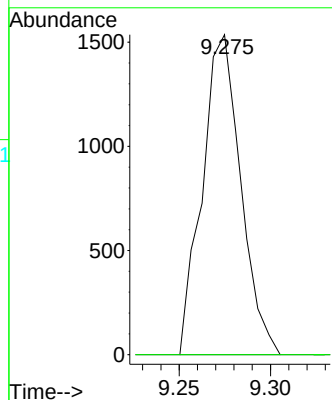
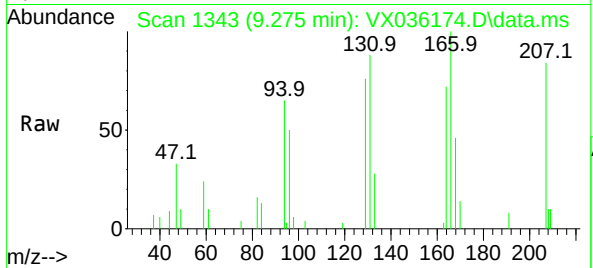




#53
Dibromochloromethane
Concen: 1.032 ug/l
RT: 9.275 min Scan# 11
Delta R.T. -0.244 min
Lab File: VX036174.D
Acq: 15 Jun 2023 17:02

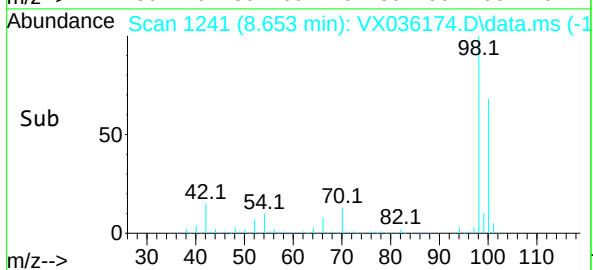
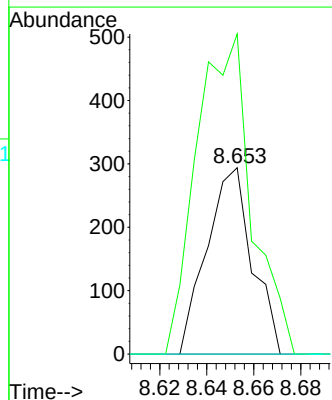
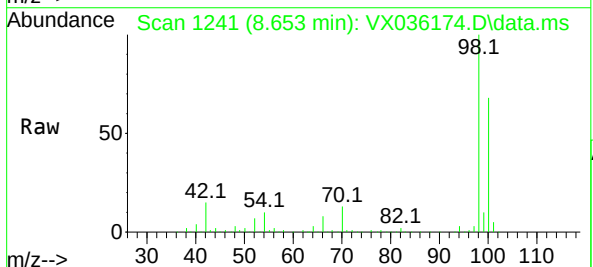
Instrument :
MSVOA_X
ClientSampleId :
RW5A-IDW/GW-20230614

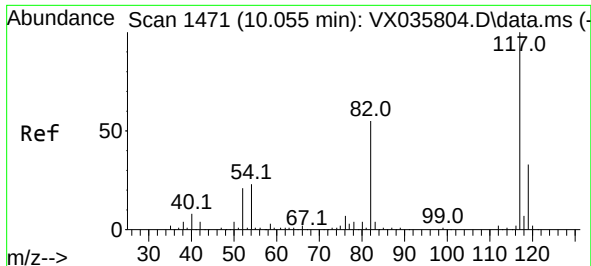
Tgt Ion:129 Resp: 2248
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.5#



#55
2-Chloroethyl vinyl ether
Concen: 0.204 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.415 min
Lab File: VX036174.D
Acq: 15 Jun 2023 17:02

Tgt Ion: 63 Resp: 396
Ion Ratio Lower Upper
63 100
65 207.3 25.4 38.2#
106 0.0 21.6 32.4#

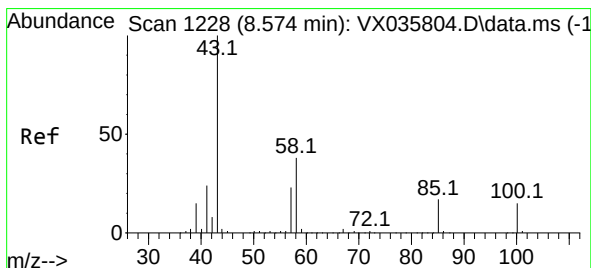
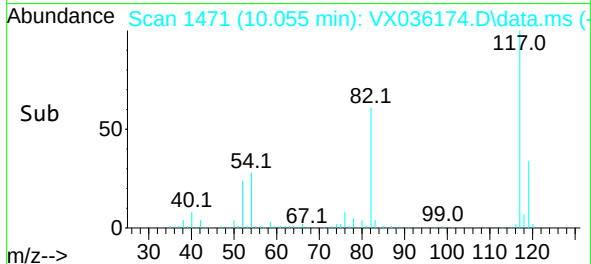
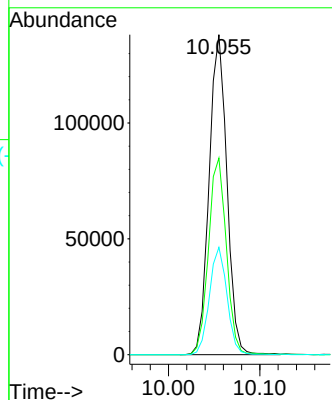
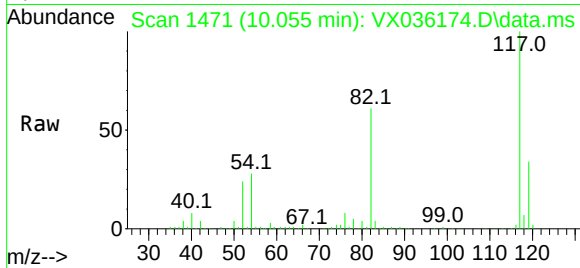




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX036174.D
Acq: 15 Jun 2023 17:02

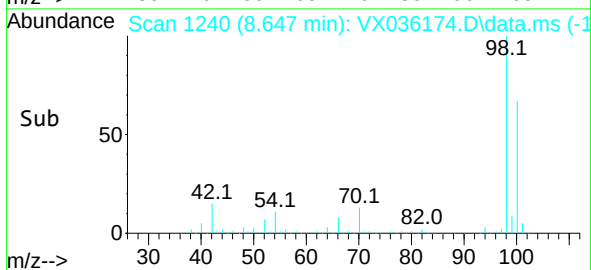
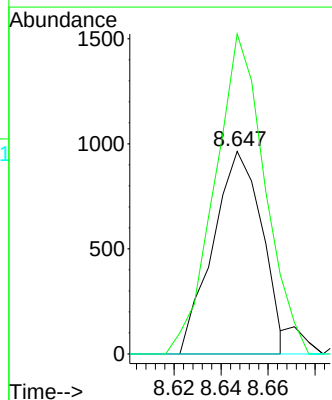
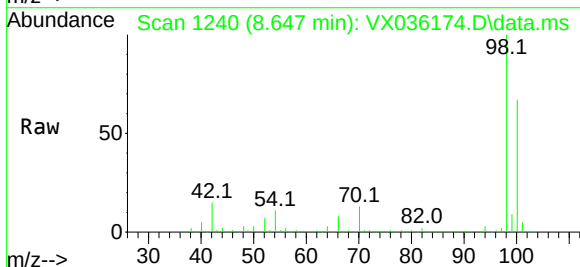
Instrument :
MSVOA_X
ClientSampleId :
RW5A-IDW/GW-20230614

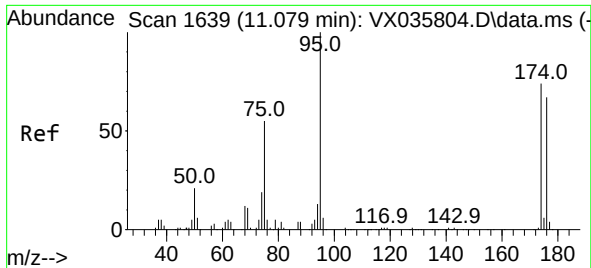
Tgt Ion:117 Resp: 186348
Ion Ratio Lower Upper
117 100
82 61.8 45.8 68.8
119 33.1 25.4 38.0



#58
4-Methyl-2-Pentanone
Concen: 0.389 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.073 min
Lab File: VX036174.D
Acq: 15 Jun 2023 17:02

Tgt Ion: 43 Resp: 1407
Ion Ratio Lower Upper
43 100
58 160.2 29.9 44.9#
85 0.0 13.2 19.8#

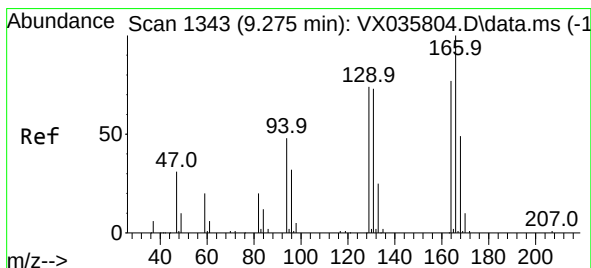
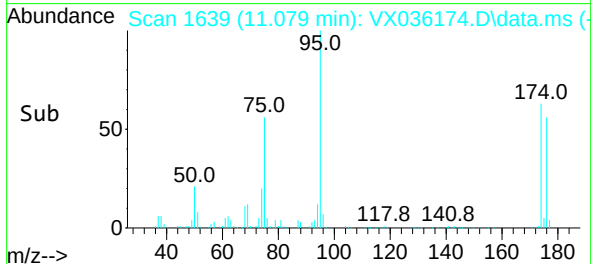
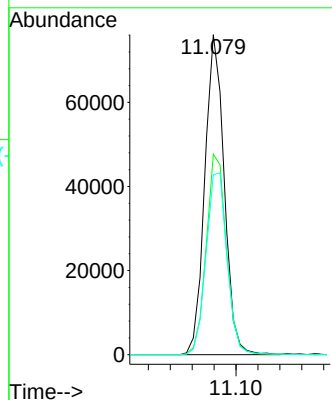
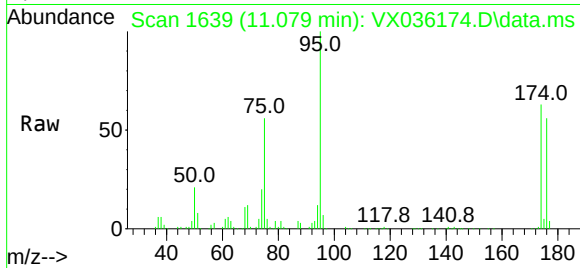




#60
4-Bromofluorobenzene
Concen: 29.913 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX036174.D
Acq: 15 Jun 2023 17:02

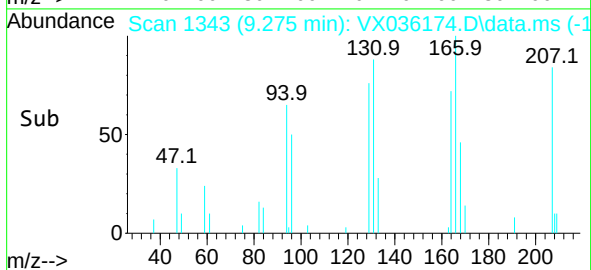
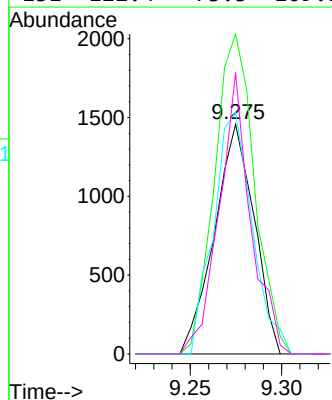
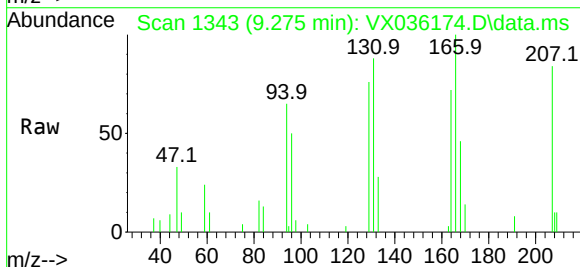
Instrument :
MSVOA_X
ClientSampleId :
RW5A-IDW/GW-20230614

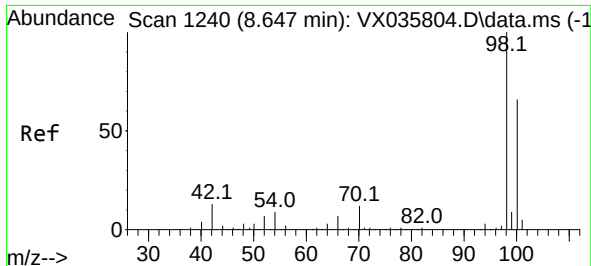
Tgt Ion: 95 Resp: 93535
Ion Ratio Lower Upper
95 100
174 65.3 0.2 0.4#
176 61.4 0.2 0.2#



#61
Tetrachloroethene
Concen: 1.226 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX036174.D
Acq: 15 Jun 2023 17:02

Tgt Ion: 164 Resp: 2201
Ion Ratio Lower Upper
164 100
166 139.2 100.1 150.1
129 105.3 79.1 118.7
131 122.4 73.3 109.9#

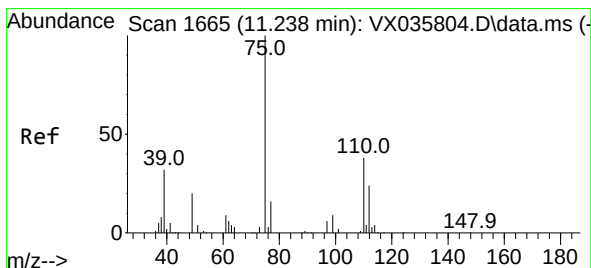
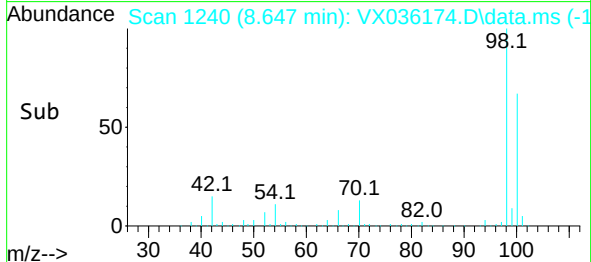
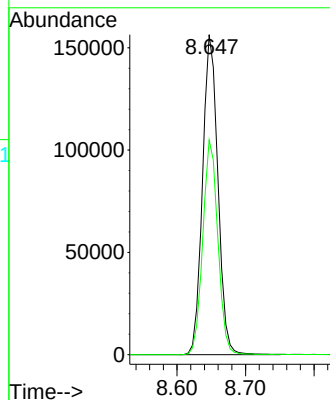
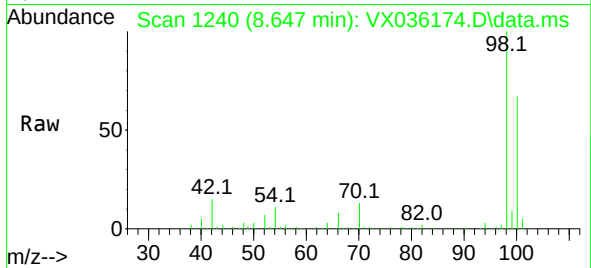




#63
Toluene-d8
Concen: 29.628 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX036174.D
Acq: 15 Jun 2023 17:02

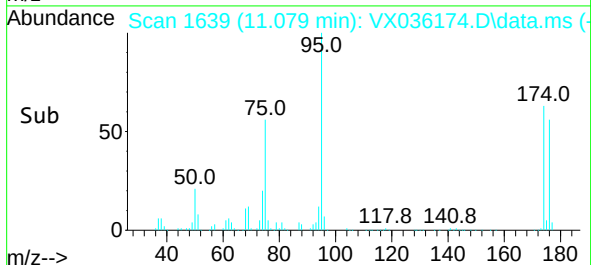
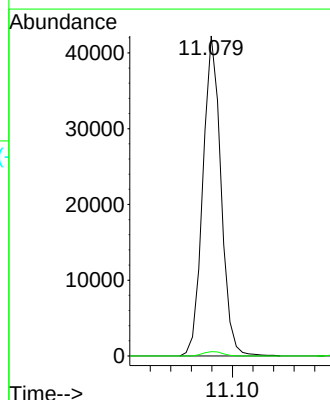
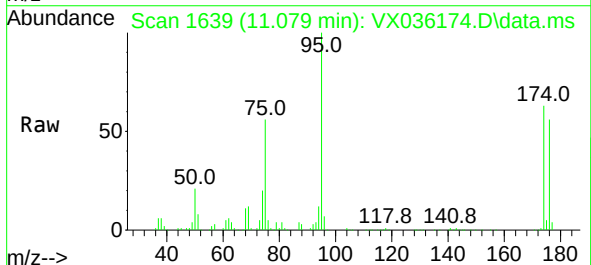
Instrument :
MSVOA_X
ClientSampleId :
RW5A-IDW/GW-20230614

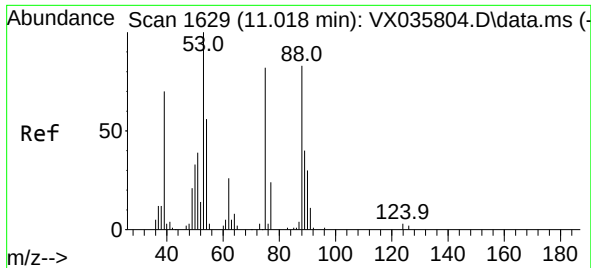
Tgt Ion: 98 Resp: 244080
Ion Ratio Lower Upper
98 100
100 65.7 52.1 78.1



#72
1,2,3-Trichloropropane
Concen: 16.219 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX036174.D
Acq: 15 Jun 2023 17:02

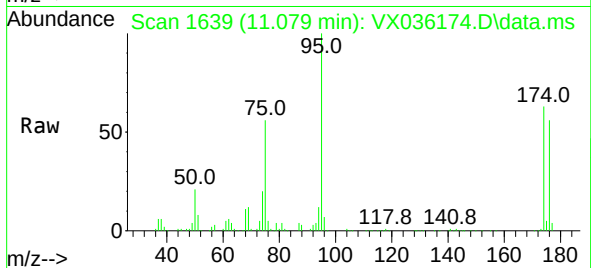
Tgt Ion: 75 Resp: 51895
Ion Ratio Lower Upper
75 100
77 1.5 0.0 73.8





#77
 t-1,4-Dichloro-2-butene
 Concen: 53.766 ug/l
 RT: 11.079 min Scan# 10
 Delta R.T. 0.061 min
 Lab File: VX036174.D
 Acq: 15 Jun 2023 17:02

Instrument :
 MSVOA_X
 ClientSampleId :
 RW5A-IDW/GW-20230614



Tgt Ion: 75 Resp: 51895
 Ion Ratio Lower Upper
 75 100
 53 0.0 58.2 174.6#
 89 0.0 20.6 61.8#

