

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX072720\
 Data File : VX017617.D
 Acq On : 27 Jul 2020 14:50
 Operator : JC/SP
 Sample : L3450-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-018-IDWGW-20200723

Quant Time: Jul 27 15:33:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X072720W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jul 27 11:38:31 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.99	128	108830	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	553747	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	508137	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	244137	29.19	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.30%
60) 4-Bromofluorobenzene	11.12	95	242121	28.14	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.80%
63) Toluene-d8	8.70	98	689306	30.65	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.17%

Target Compounds

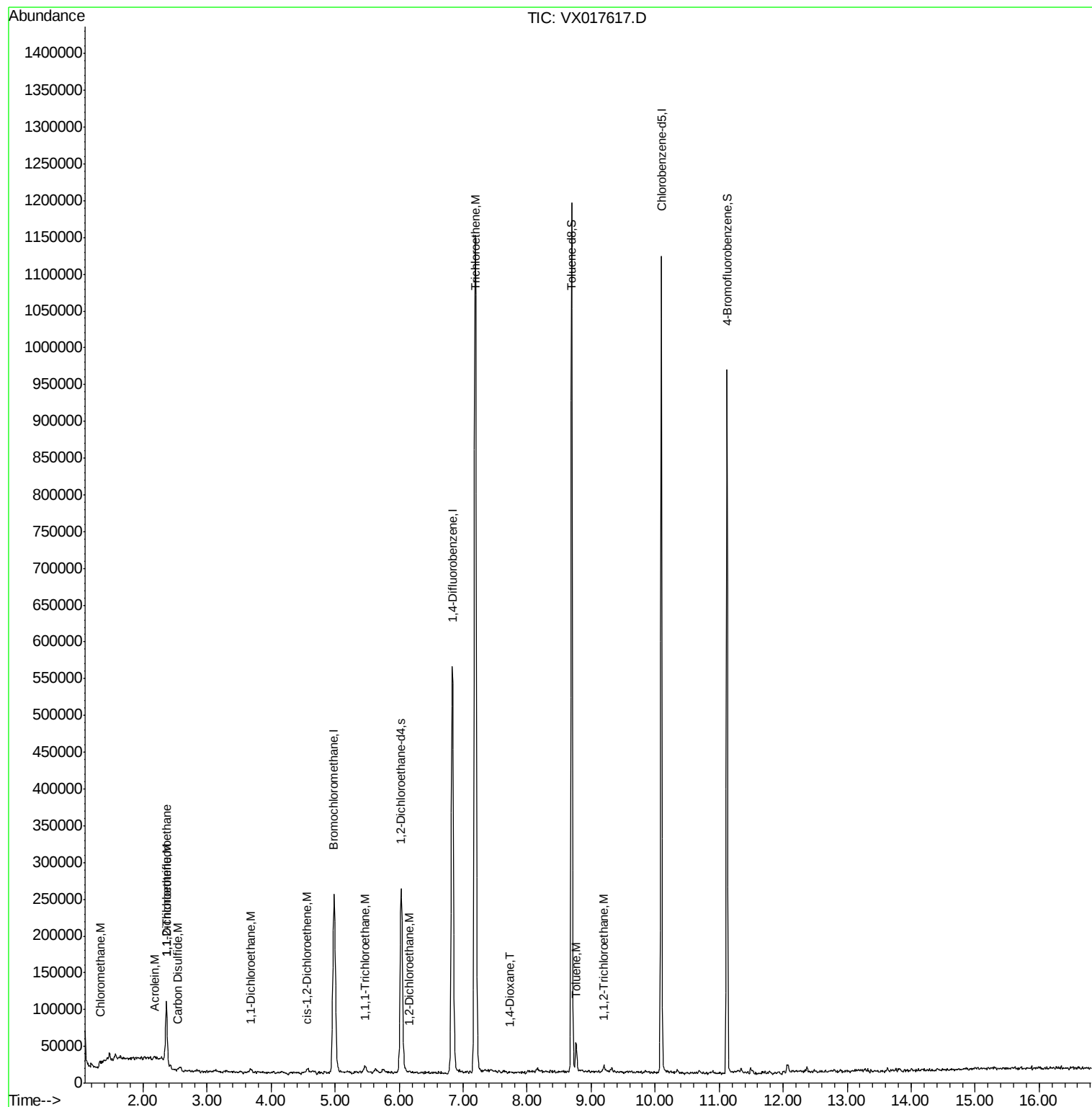
					Qvalue
3) Chloromethane	1.32	50	4013	0.496	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.37	101	21492	3.810	ug/l 96
10) 1,1-Dichloroethene	2.36	96	13174	2.516	ug/l 91
13) Acrolein	2.18	56	434	0.368	ug/l 97
16) Carbon Disulfide	2.54	76	3188	0.230	ug/l 95
21) 1,1-Dichloroethane	3.68	63	3063	0.287	ug/l # 85
22) cis-1,2-Dichloroethene	4.56	96	2814	0.426	ug/l 89
32) 1,1,1-Trichloroethane	5.47	97	4253	0.400	ug/l # 85
36) 1,2-Dichloroethane	6.17	62	2002	0.212	ug/l # 90
37) Trichloroethene	7.19	130	465608	68.144	ug/l 94
45) 1,4-Dioxane	7.73	88	782	5.286	ug/l # 63
50) 1,1,2-Trichloroethane	9.20	97	2435	0.385	ug/l # 91
62) Toluene	8.76	91	25585	1.013	ug/l 96

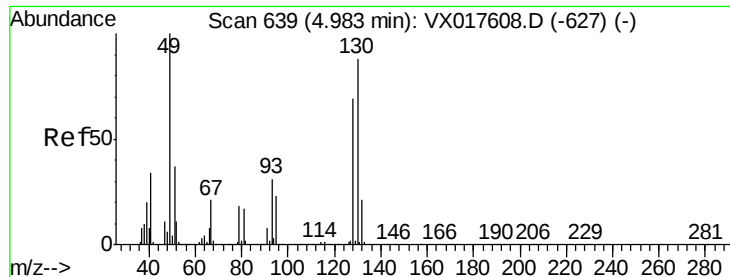
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX072720\
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TT-018-IDWGW-20200723

Quant Time: Jul 27 15:33:06 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\624X072720W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Jul 27 11:38:31 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.99 min Scan# 640

Delta R.T. 0.01 min

Lab File: VX017617.D

Acq: 27 Jul 2020 14:50

Instrument :

MSVOA_X

ClientSampleId :

TT-018-IDW/GW-20200723

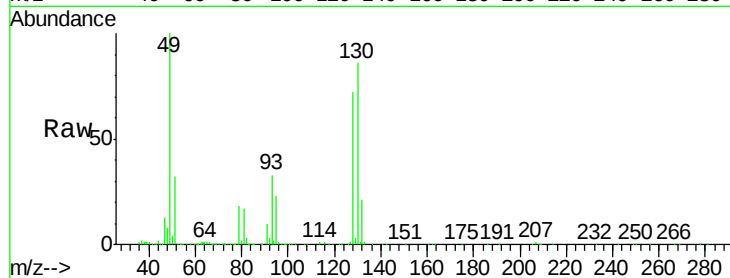
Tgt Ion:128 Resp: 108830

Ion Ratio Lower Upper

128 100

49 149.4 0.0 376.0

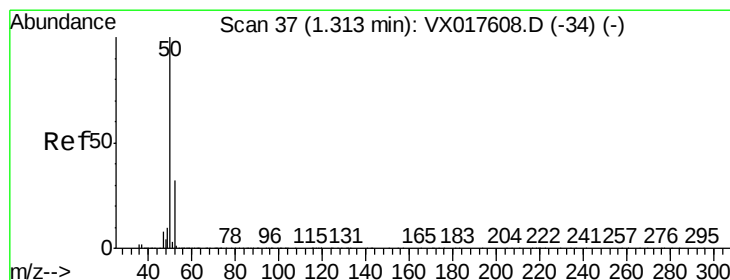
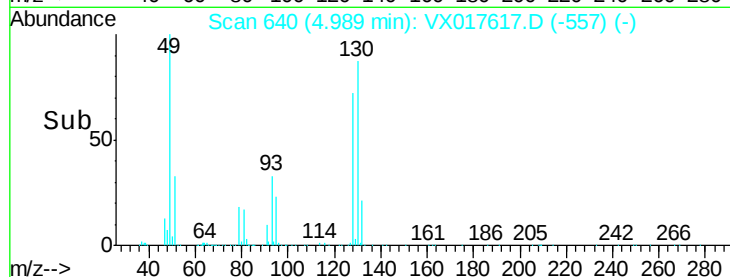
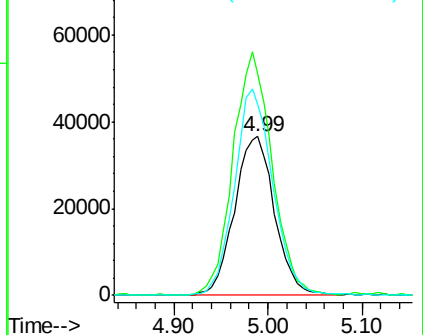
130 124.9 0.0 323.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.496 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017617.D

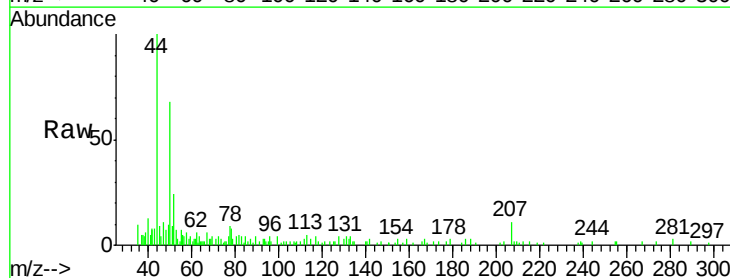
Acq: 27 Jul 2020 14:50

Tgt Ion: 50 Resp: 4013

Ion Ratio Lower Upper

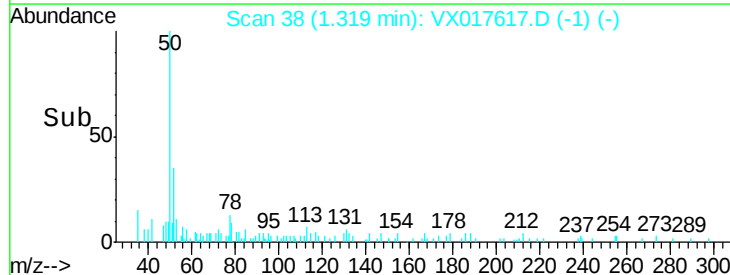
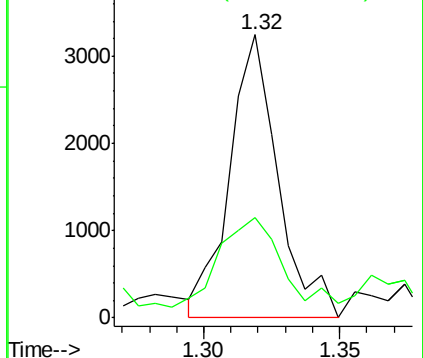
50 100

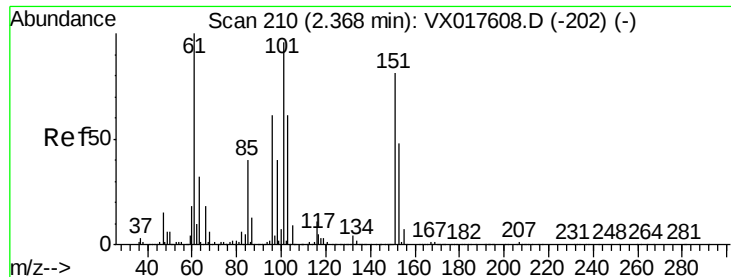
52 32.1 25.5 38.3



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.810 ug/l

RT: 2.37 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX017617.D

Acq: 27 Jul 2020 14:50

Instrument :

MSVOA_X

ClientSampleId :

TT-018-IDW/GW-20200723

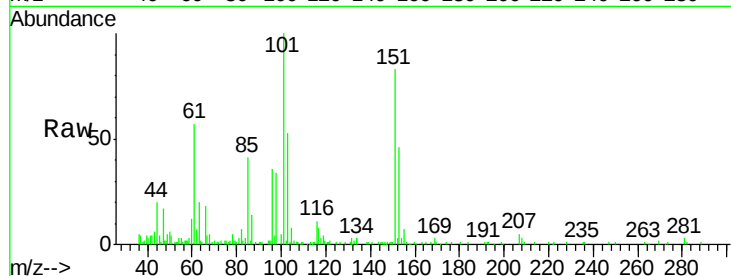
Tgt Ion:101 Resp: 21492

Ion Ratio Lower Upper

101 100

85 45.6 0.0 90.6

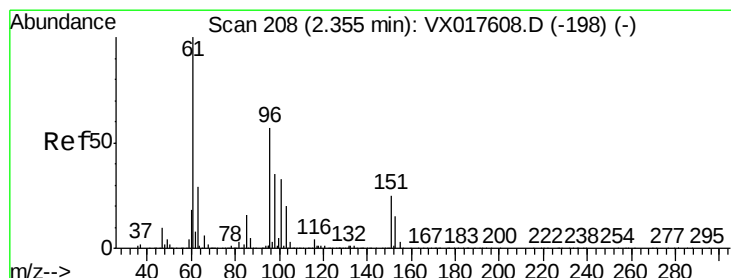
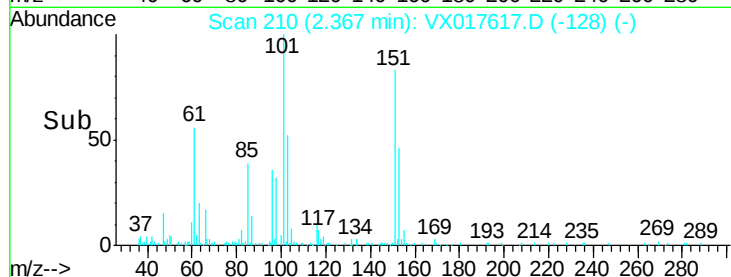
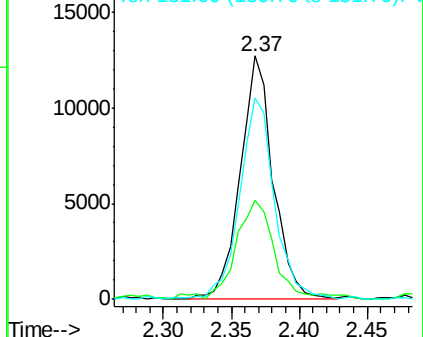
151 86.9 0.0 163.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VX0

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 2.516 ug/l

RT: 2.36 min Scan# 208

Delta R.T. -0.00 min

Lab File: VX017617.D

Acq: 27 Jul 2020 14:50

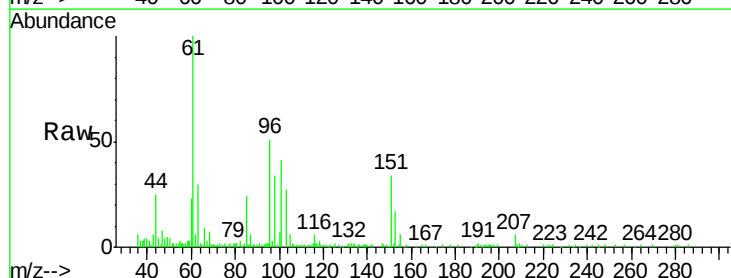
Tgt Ion: 96 Resp: 13174

Ion Ratio Lower Upper

96 100

61 192.0 141.2 211.8

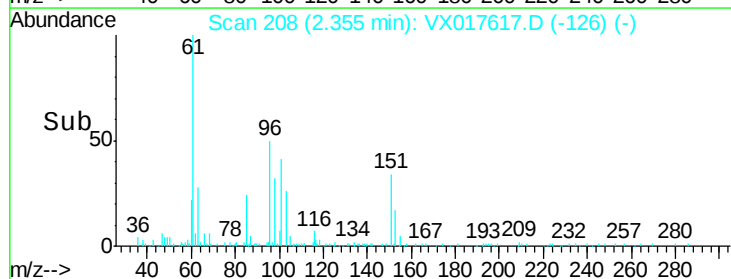
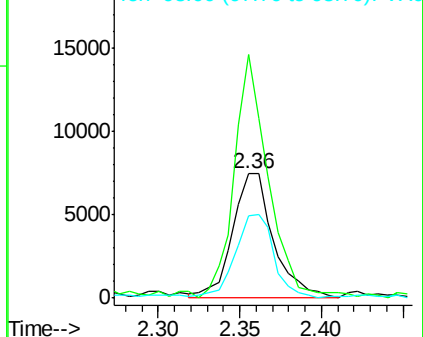
98 64.9 49.4 74.2

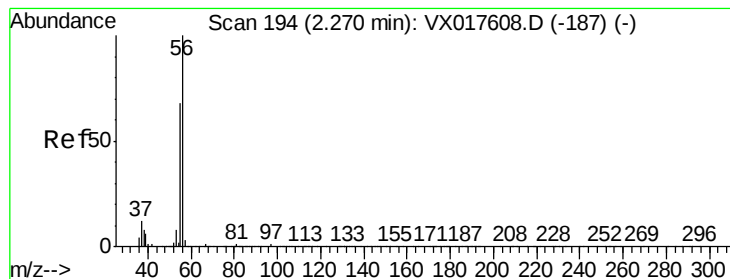


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#13

Acrolein

Concen: 0.368 ug/l

RT: 2.18 min Scan# 179

Delta R.T. -0.09 min

Lab File: VX017617.D

Acq: 27 Jul 2020 14:50

Instrument :

MSVOA_X

ClientSampleId :

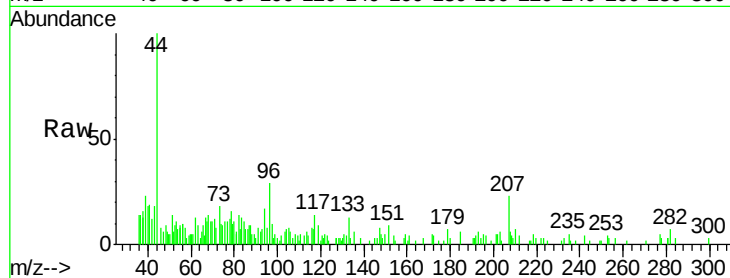
TT-018-IDW/GW-20200723

Tgt Ion: 56 Resp: 434

Ion Ratio Lower Upper

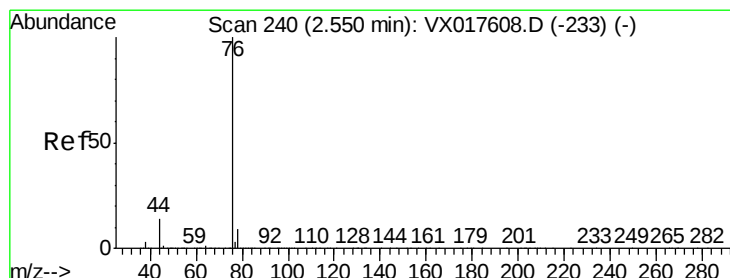
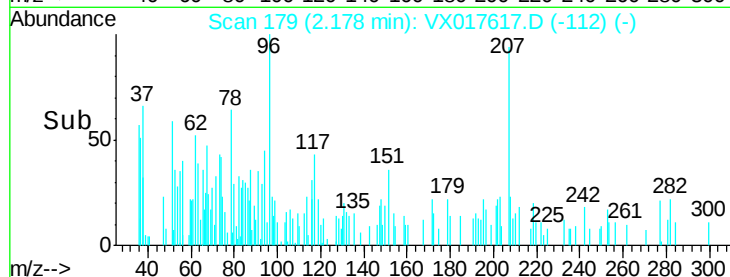
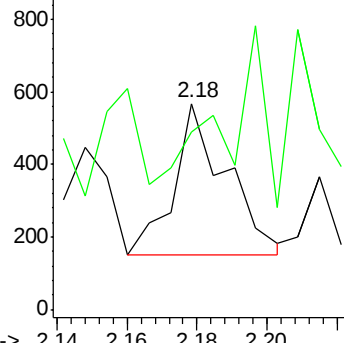
56 100

55 69.1 57.2 85.8



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Carbon Disulfide

Concen: 0.230 ug/l

RT: 2.54 min Scan# 239

Delta R.T. -0.01 min

Lab File: VX017617.D

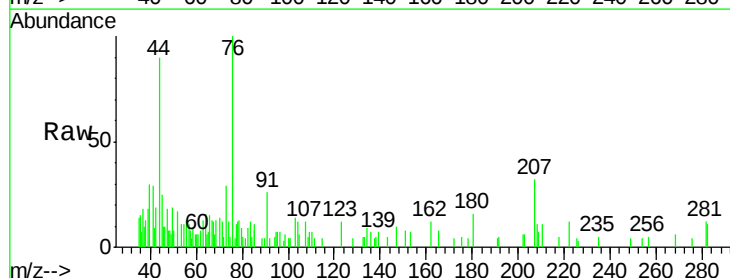
Acq: 27 Jul 2020 14:50

Tgt Ion: 76 Resp: 3188

Ion Ratio Lower Upper

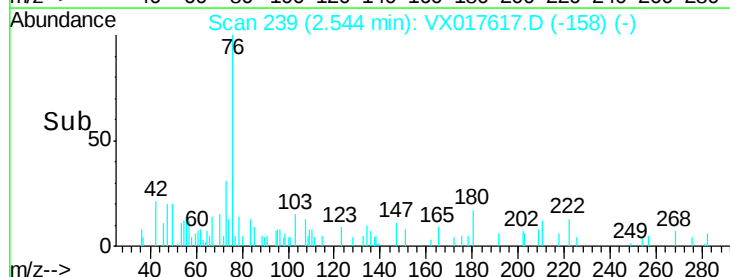
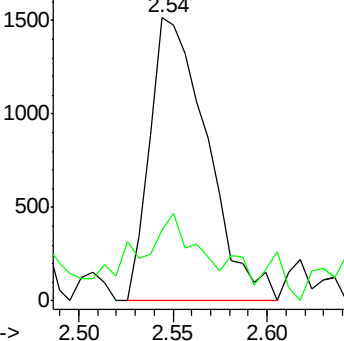
76 100

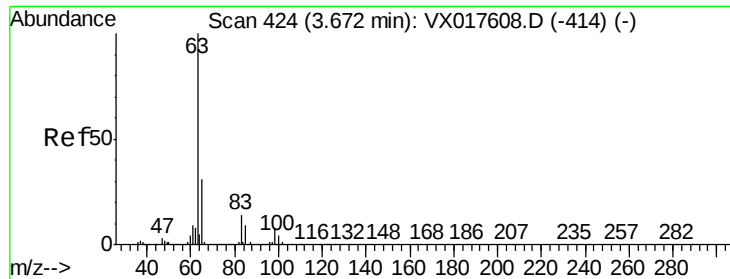
78 7.7 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0





#21

1,1-Dichloroethane

Concen: 0.287 ug/l

RT: 3.68 min Scan# 425

Delta R.T. 0.01 min

Lab File: VX017617.D

Acq: 27 Jul 2020 14:50

Instrument :

MSVOA_X

ClientSampleId :

TT-018-IDW/GW-20200723

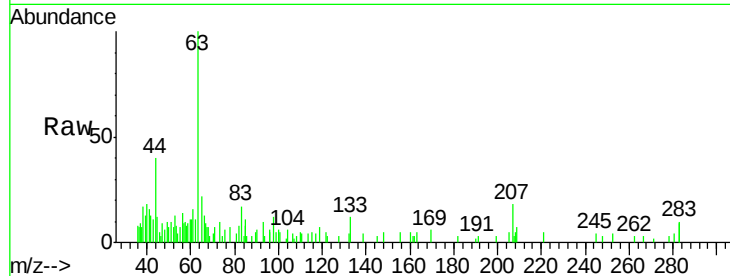
Tgt Ion: 63 Resp: 3063

Ion Ratio Lower Upper

63 100

98 14.3 3.9 11.7#

100 6.2 1.9 5.7#

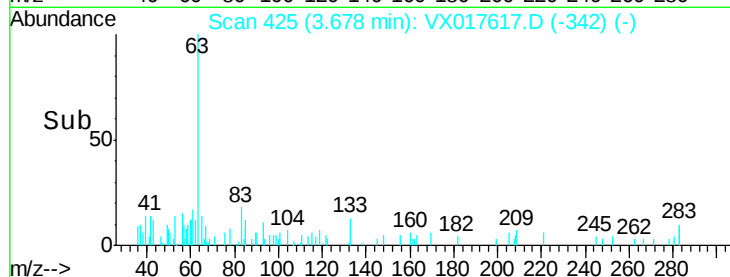


Abundance Ion 63.00 (62.70 to 63.70): VX0

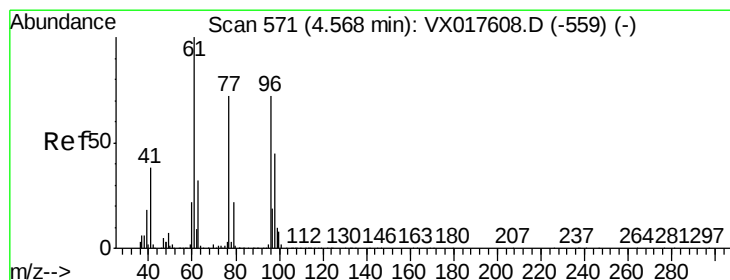
Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

Time-->



Time-->



#22

cis-1,2-Dichloroethene

Concen: 0.426 ug/l

RT: 4.56 min Scan# 569

Delta R.T. -0.01 min

Lab File: VX017617.D

Acq: 27 Jul 2020 14:50

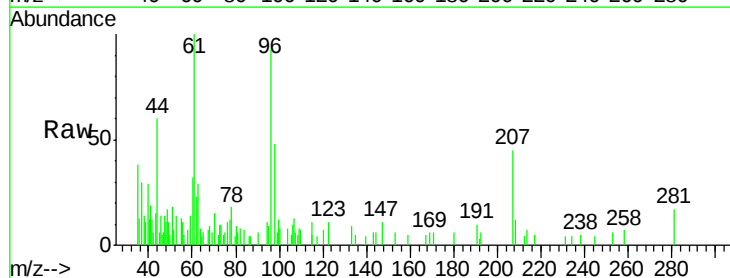
Tgt Ion: 96 Resp: 2814

Ion Ratio Lower Upper

96 100

61 136.8 121.1 181.7

98 56.0 51.4 77.2

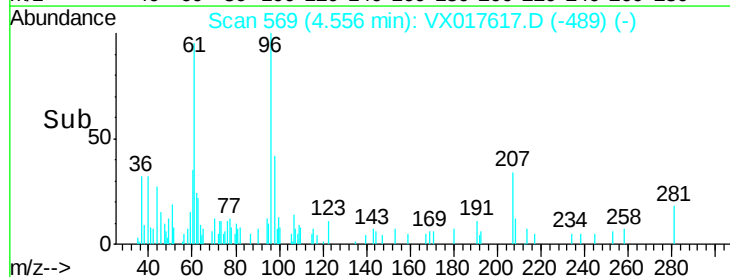


Abundance Ion 96.00 (95.70 to 96.70): VX0

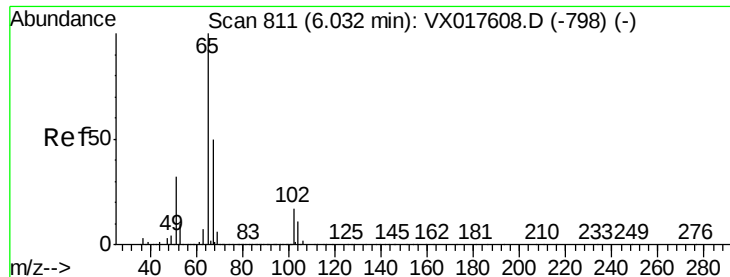
Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

Time-->



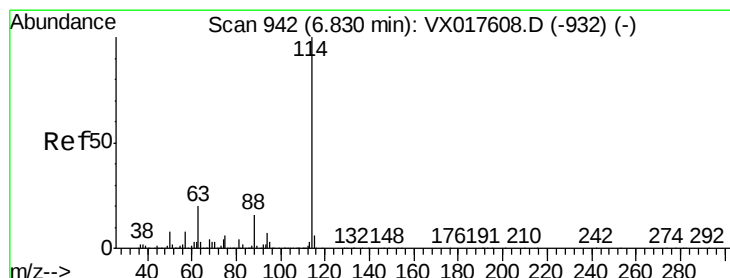
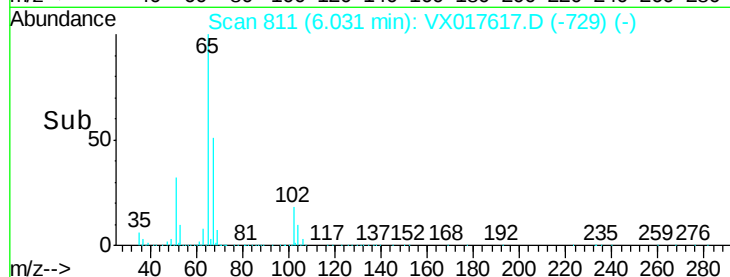
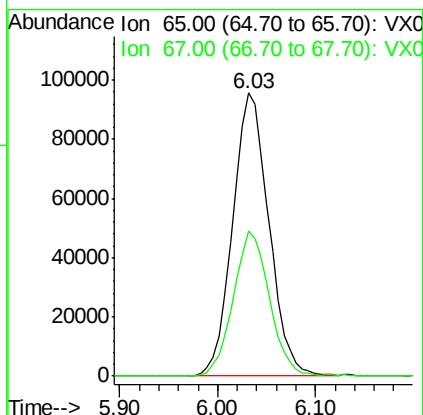
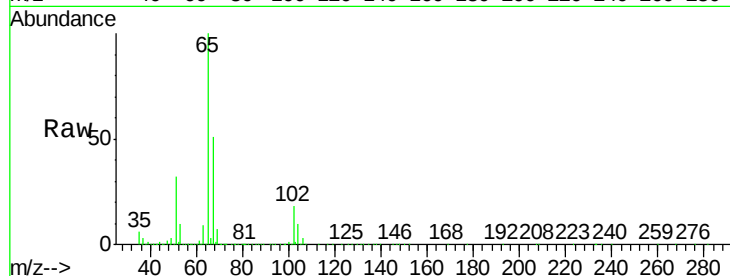
Time-->



#27
 1,2-Dichloroethane-d4
 Concen: 29.193 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX017617.D
 Acq: 27 Jul 2020 14:50

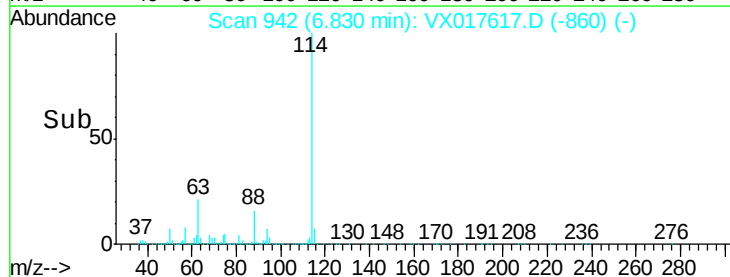
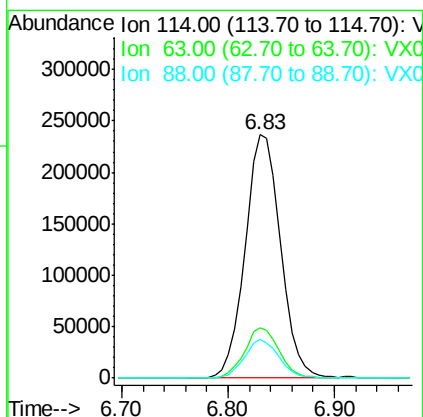
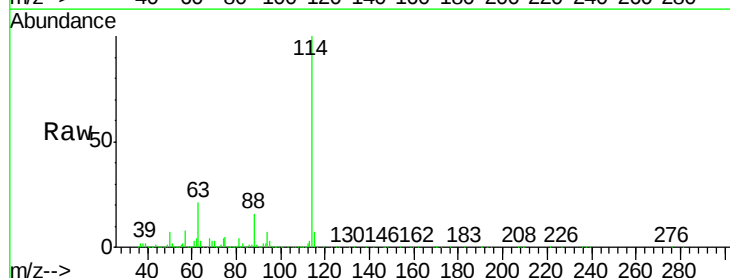
Instrument :
 MSVOA_X
 ClientSampleId :
 TT-018-IDWGW-20200723

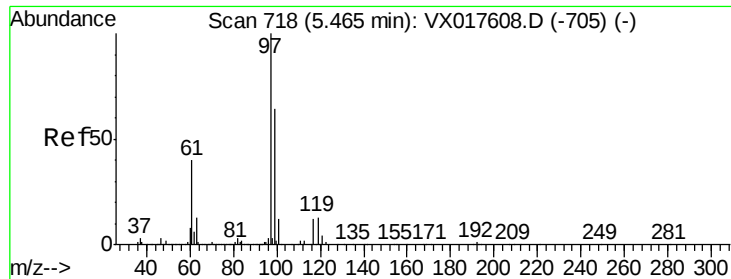
Tgt Ion: 65 Resp: 244137
 Ion Ratio Lower Upper
 65 100
 67 51.3 40.6 61.0



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX017617.D
 Acq: 27 Jul 2020 14:50

Tgt Ion: 114 Resp: 553747
 Ion Ratio Lower Upper
 114 100
 63 20.3 16.3 24.5
 88 15.4 12.6 18.8





#32

1,1,1-Trichloroethane

Concen: 0.400 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX017617.D

Acq: 27 Jul 2020 14:50

Instrument :

MSVOA_X

ClientSampleId :

TT-018-IDW/GW-20200723

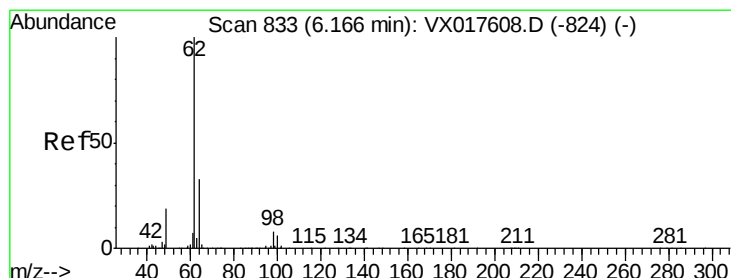
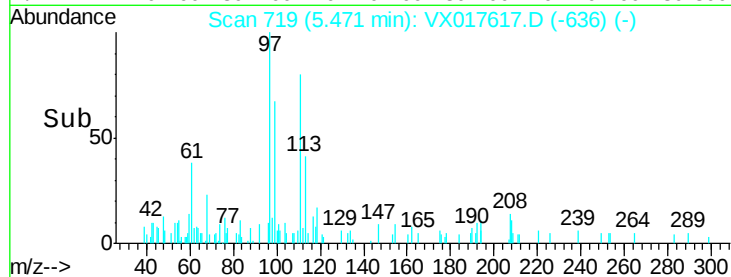
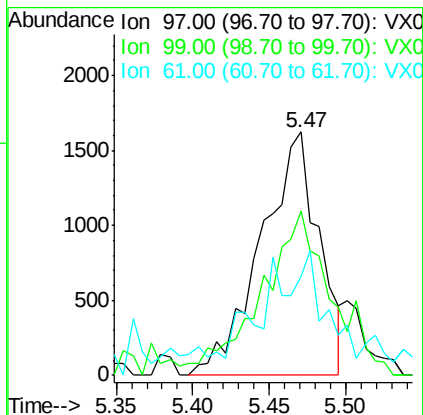
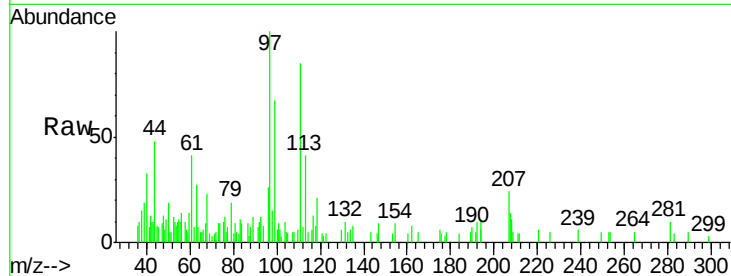
Tgt Ion: 97 Resp: 4253

Ion Ratio Lower Upper

97 100

99 74.1 50.6 75.8

61 30.5 32.6 48.8#



#36

1,2-Dichloroethane

Concen: 0.212 ug/l

RT: 6.17 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX017617.D

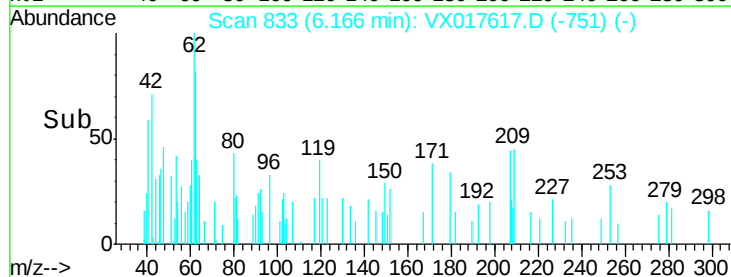
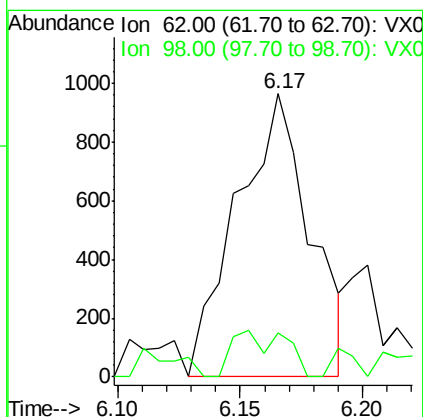
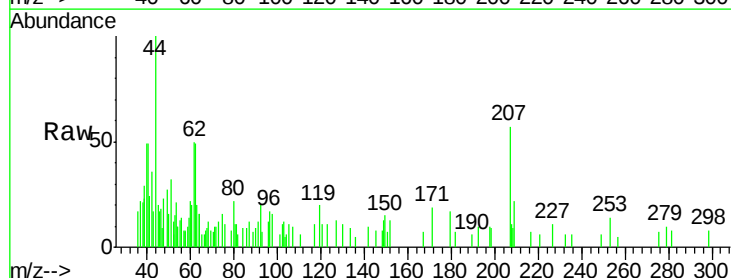
Acq: 27 Jul 2020 14:50

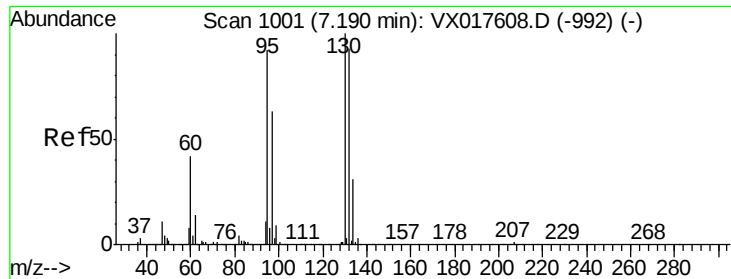
Tgt Ion: 62 Resp: 2002

Ion Ratio Lower Upper

62 100

98 4.8 6.6 10.0#





#37

Trichloroethene

Concen: 68.144 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX017617.D

Acq: 27 Jul 2020 14:50

Instrument :

MSVOA_X

ClientSampleId :

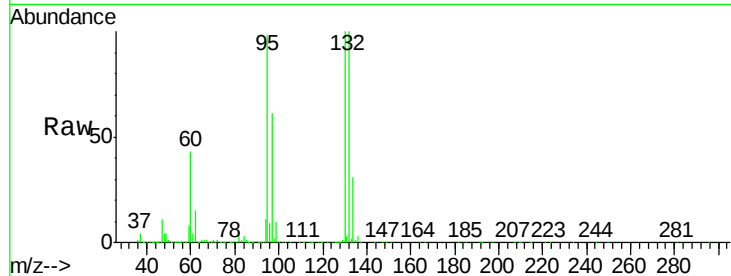
TT-018-IDWGW-20200723

Tgt Ion:130 Resp: 465608

Ion Ratio Lower Upper

130 100

95 97.9 73.9 110.9



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VX0

7.19

250000

200000

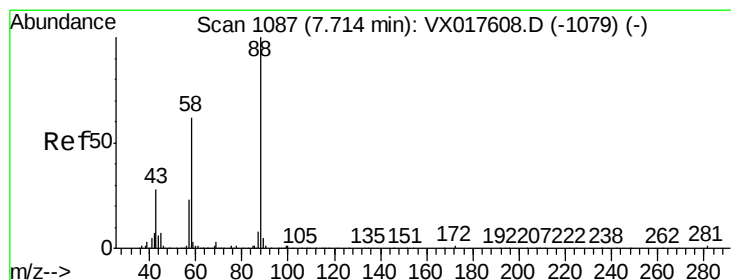
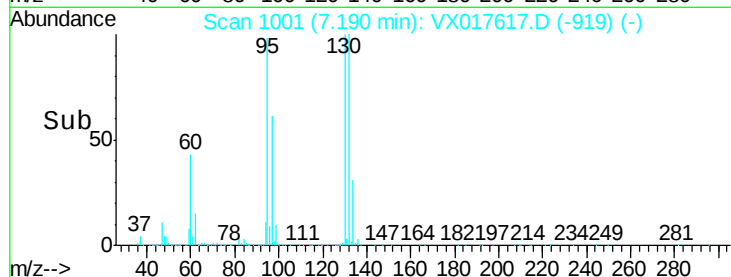
150000

100000

50000

0

Time-->



#45

1,4-Dioxane

Concen: 5.286 ug/l

RT: 7.73 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VX017617.D

Acq: 27 Jul 2020 14:50

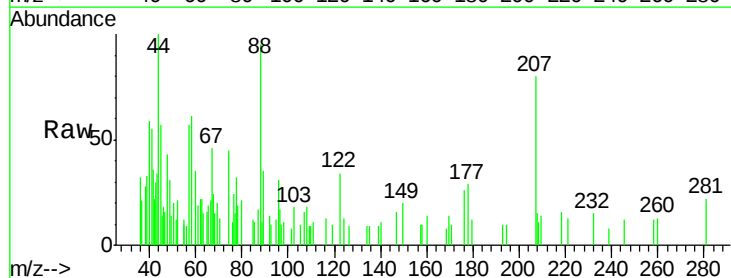
Tgt Ion: 88 Resp: 782

Ion Ratio Lower Upper

88 100

43 43.7 29.0 43.6#

58 109.6 55.6 83.4#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

800

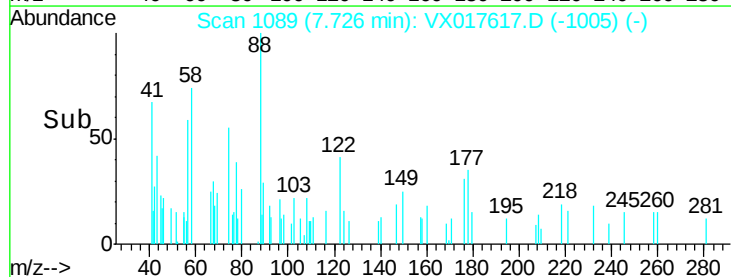
600

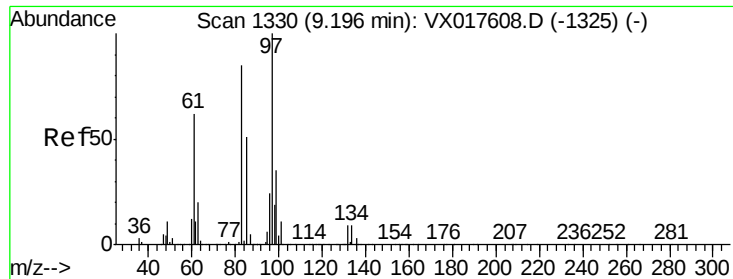
400

200

0

Time-->

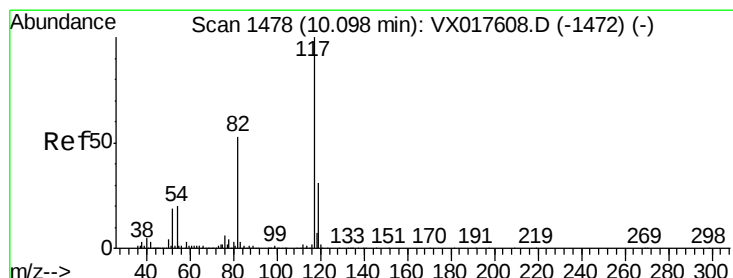
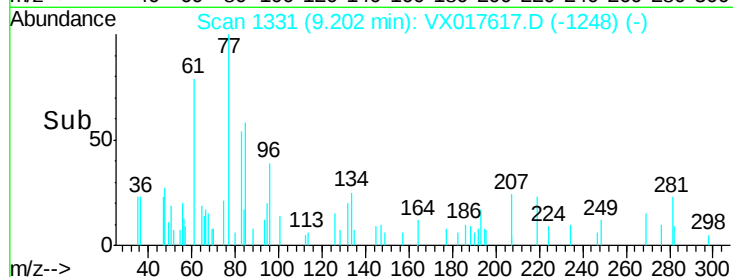
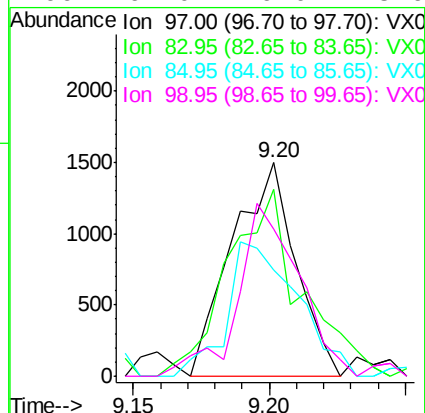
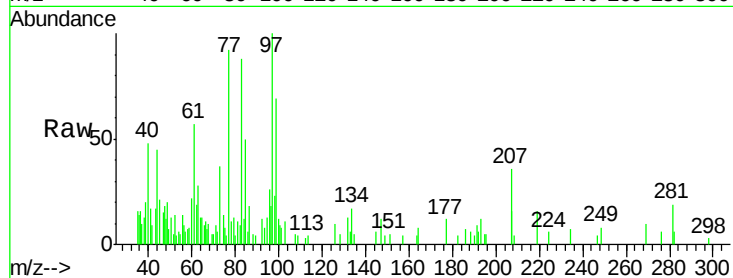




#50
1,1,2-Trichloroethane
Concen: 0.385 ug/l
RT: 9.20 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VX017617.D
Acq: 27 Jul 2020 14:50

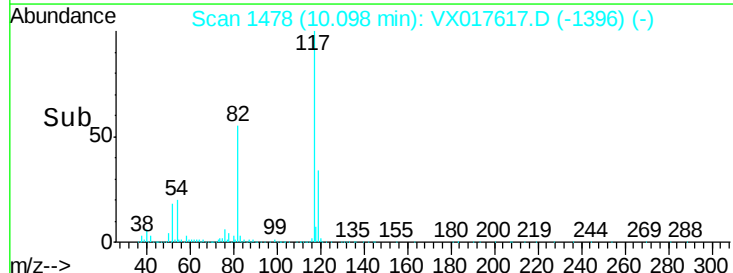
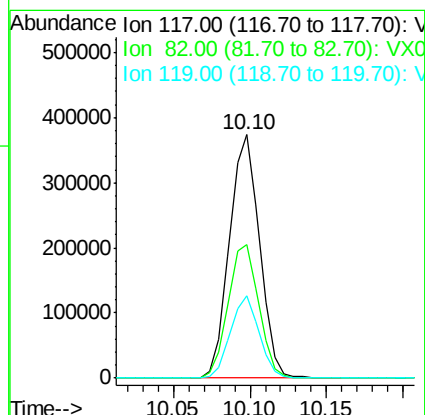
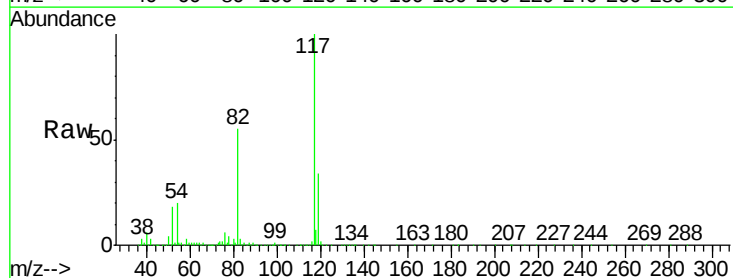
Instrument :
MSVOA_X
ClientSampleId :
TT-018-IDW/GW-20200723

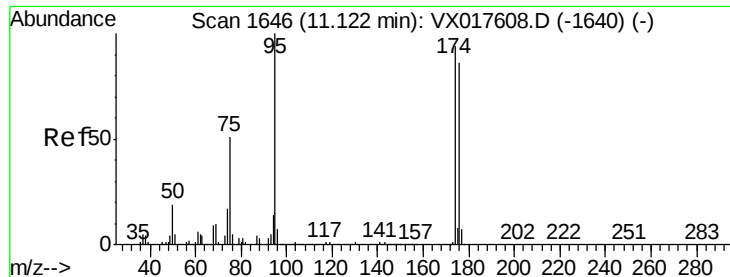
Tgt Ion:	97	Resp:	2435
Ion	Ratio	Lower	Upper
97	100		
83	76.1	68.2	102.2
85	42.2	42.6	64.0#
99	61.0	49.0	73.6



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017617.D
Acq: 27 Jul 2020 14:50

Tgt Ion:	117	Resp:	508137
Ion	Ratio	Lower	Upper
117	100		
82	56.1	43.6	65.4
119	32.6	25.7	38.5





#60

4-Bromofluorobenzene

Concen: 28.136 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017617.D

Acq: 27 Jul 2020 14:50

Instrument :

MSVOA_X

ClientSampleId :

TT-018-IDW/GW-20200723

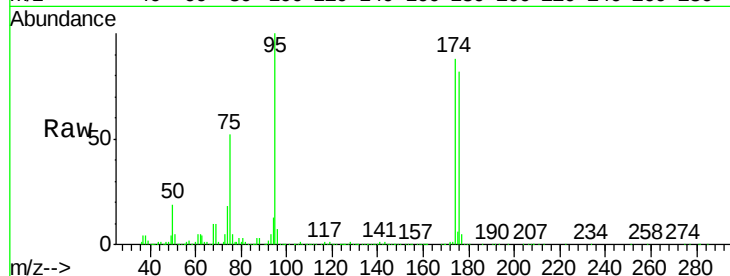
Tgt Ion: 95 Resp: 242121

Ion Ratio Lower Upper

95 100

174 85.0 70.2 105.2

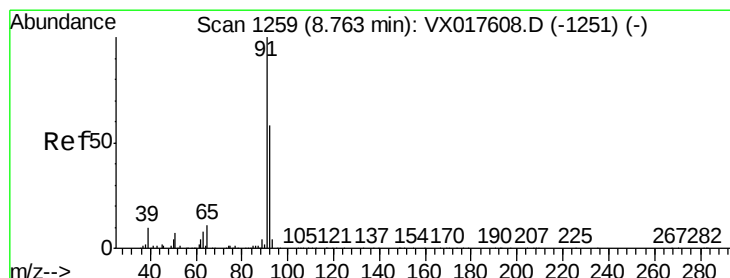
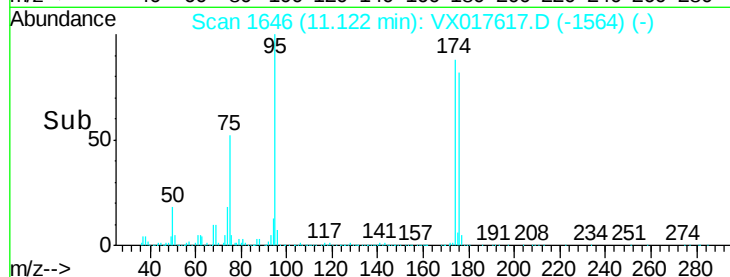
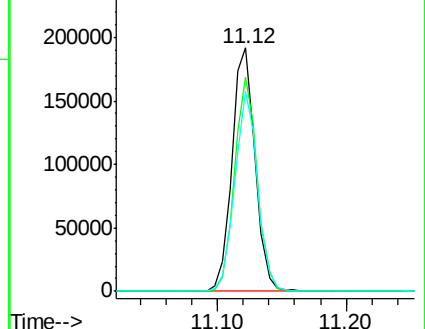
176 80.5 65.6 98.4



Abundance Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): VX0

Ion 176.00 (175.70 to 176.70): VX0



#62

Toluene

Concen: 1.013 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX017617.D

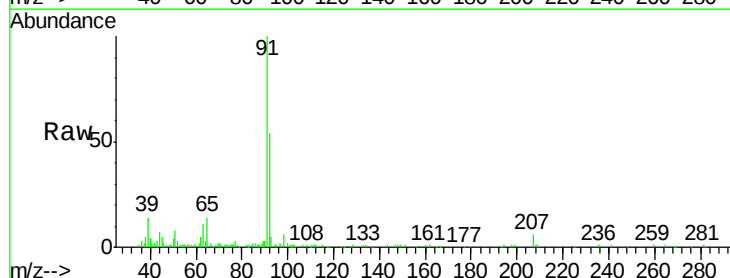
Acq: 27 Jul 2020 14:50

Tgt Ion: 91 Resp: 25585

Ion Ratio Lower Upper

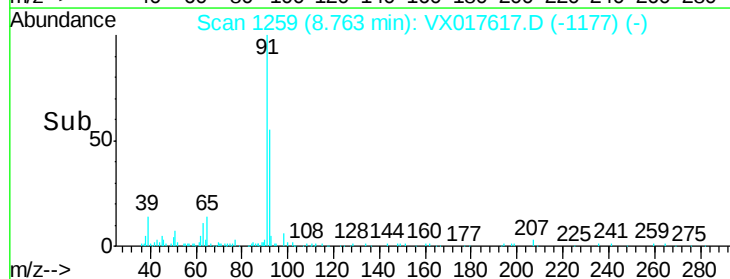
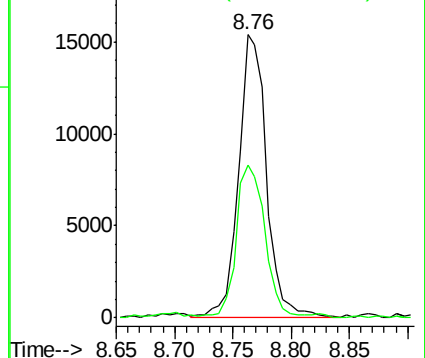
91 100

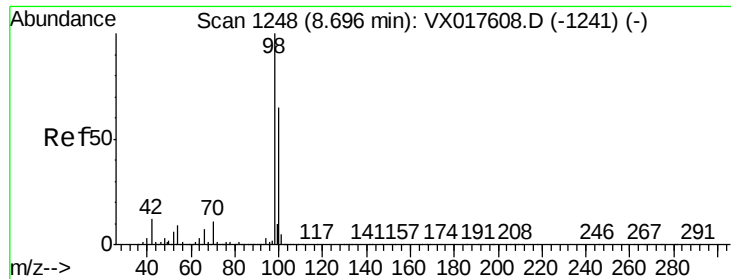
92 55.9 46.9 70.3



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0





#63

Toluene-d8

Concen: 30.655 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017617.D

Acq: 27 Jul 2020 14:50

Instrument :

MSVOA_X

ClientSampleId :

TT-018-IDW/GW-20200723

Tgt Ion: 98 Resp: 689306

Ion Ratio Lower Upper

98 100

100 63.3 51.9 77.9

