

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110819\
 Data File : VX013359.D
 Acq On : 08 Nov 2019 15:52
 Operator : JC/SP
 Sample : K5765-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-009-IDWGW-20191107

Quant Time: Nov 11 02:56:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 02 07:06:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	814766	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1287557	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	1143225	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	526660	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	464308	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	
35) Dibromofluoromethane	5.48	113	383421	47.48	ug/l	0.00
Spiked Amount			Recovery	=	94.96%	
50) Toluene-d8	8.71	98	1529527	50.24	ug/l	0.00
Spiked Amount			Recovery	=	100.48%	
62) 4-Bromofluorobenzene	11.13	95	505578	46.01	ug/l	0.00
Spiked Amount			Recovery	=	92.02%	

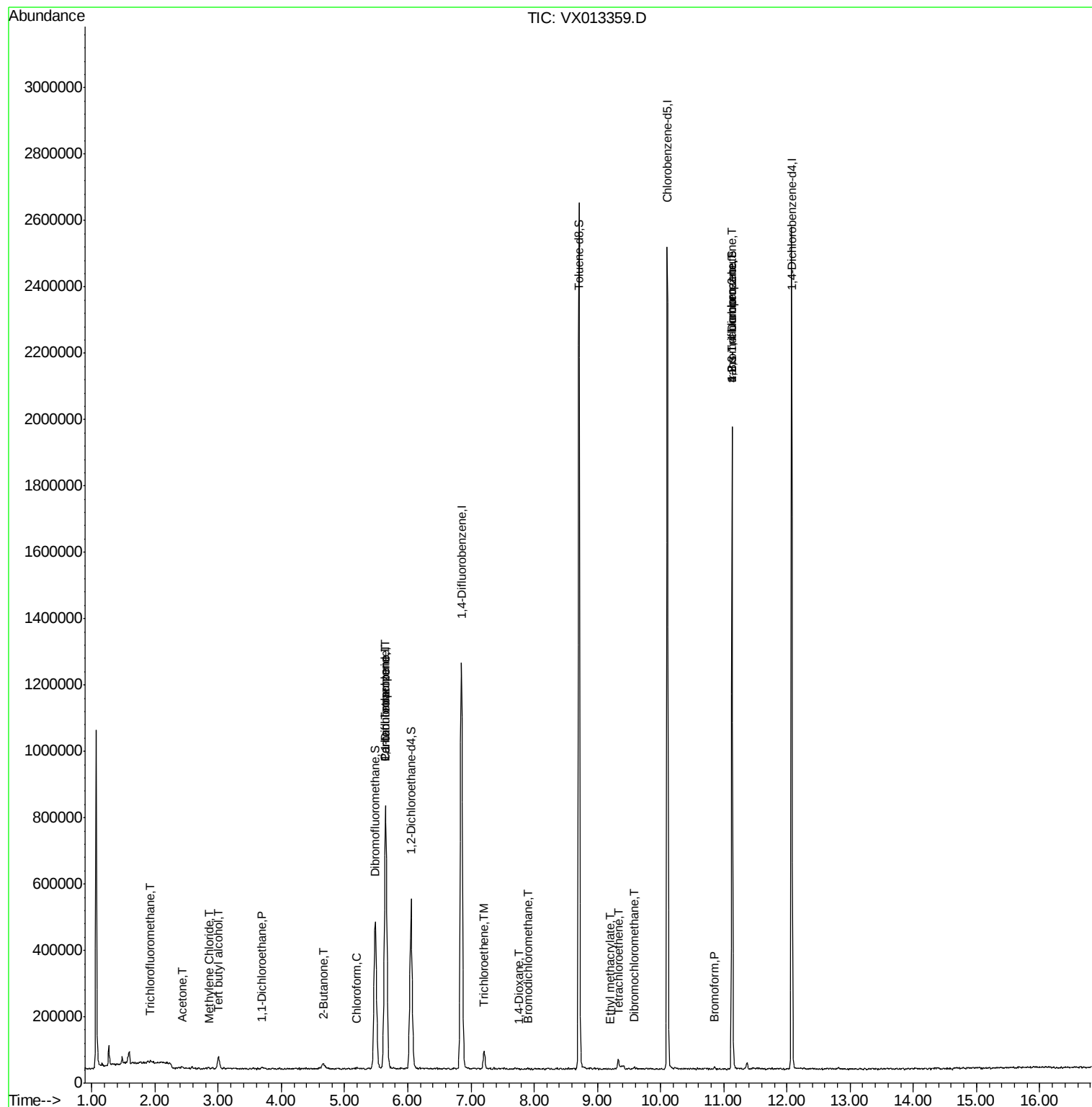
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.73	64	475	Below Cal	#	65
7) Trichlorofluoromethane	1.92	101	4074	0.298	ug/l #	75
11) Tert butyl alcohol	3.00	59	24382	9.584	ug/l #	88
16) Acetone	2.43	43	8479	1.761	ug/l	90
20) Methylene Chloride	2.85	84	2520	0.283	ug/l #	74
24) 1,1-Dichloroethane	3.68	63	5984	0.408	ug/l #	92
25) 2-Butanone	4.65	43	1874	0.265	ug/l #	67
30) Chloroform	5.19	83	3951	0.273	ug/l	88
36) 1,1-Dichloropropene	5.65	75	55986	5.069	ug/l #	51
38) Carbon Tetrachloride	5.65	117	70861	6.560	ug/l #	16
44) Trichloroethene	7.21	130	23888	2.522	ug/l	95
47) Bromodichloromethane	7.89	83	2829	0.251	ug/l #	53
49) 1,4-Dioxane	7.75	88	282	1.161	ug/l #	1
56) Ethyl methacrylate	9.20	69	265	1.580	ug/l #	1
60) Dibromochloromethane	9.58	129	3142	0.348	ug/l	97
64) Tetrachloroethene	9.34	164	3465	0.423	ug/l #	81
71) Bromoform	10.86	173	2375	3.485	ug/l #	87
76) 1,2,3-Trichloropropane	11.13	75	253652	23.712	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	253652	61.034	ug/l #	9

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

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QLast Update : Sat Nov 02 07:06:38 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX013359.D

Acq: 08 Nov 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

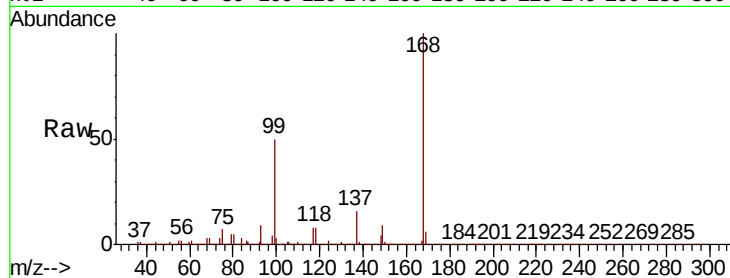
TT-009-IDW/GW-20191107

Tot Ion:168 Resp: 814766

Ion Ratio Lower Upper

168 100

99 50.0 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

300000

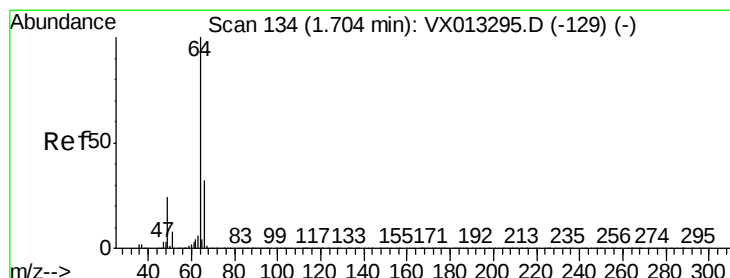
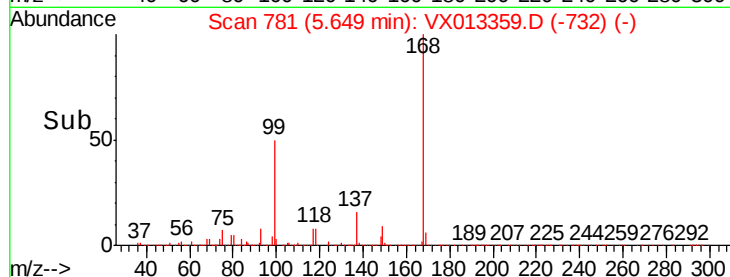
200000

100000

0

Time-->

5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 138

Delta R.T. 0.02 min

Lab File: VX013359.D

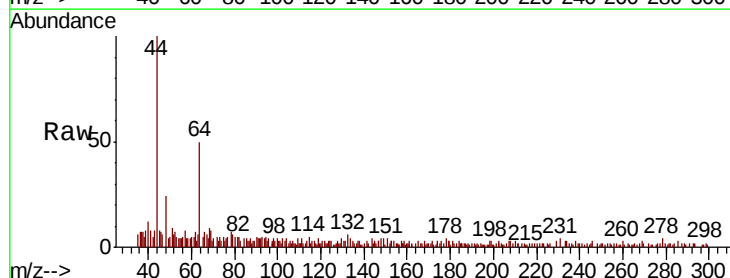
Acq: 08 Nov 2019 15:52

Tgt Ion: 64 Resp: 475

Ion Ratio Lower Upper

64 100

66 12.6 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.73

3000

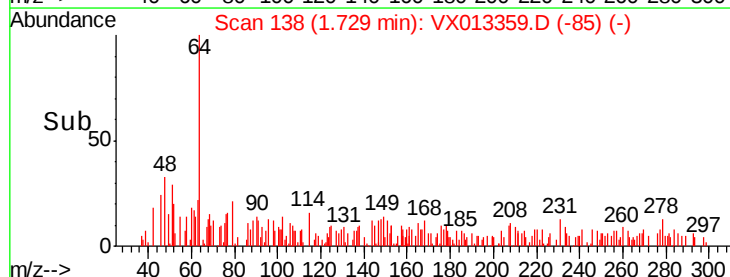
2000

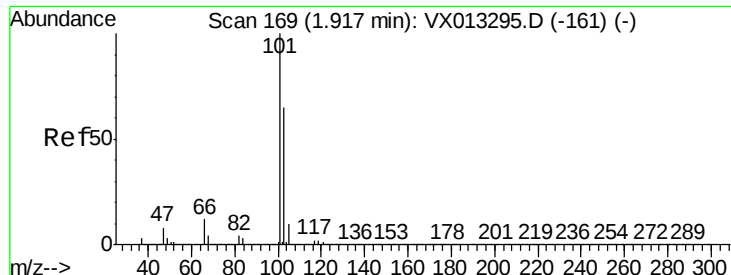
1000

0

Time-->

1.71 1.72 1.73 1.74



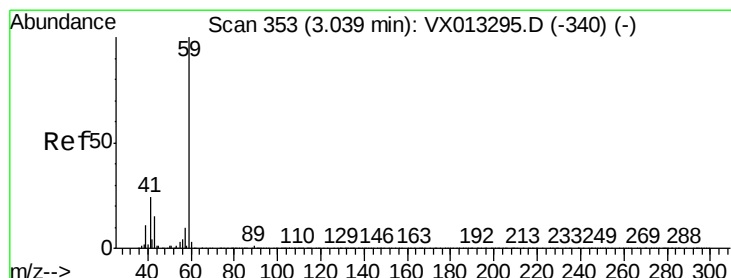
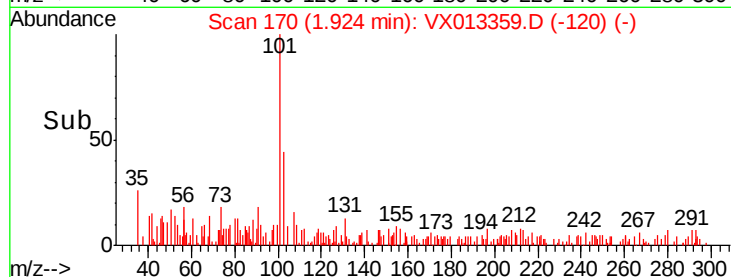
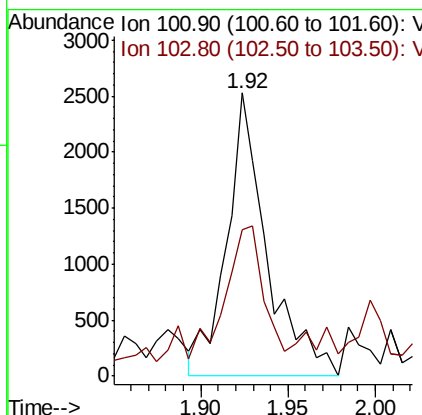
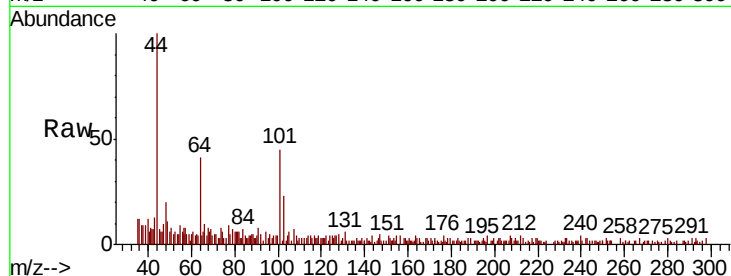


#7

Trichlorofluoromethane
 Concen: 0.298 ug/l
 RT: 1.92 min Scan# 170
 Delta R.T. 0.01 min
 Lab File: VX013359.D
 Acq: 08 Nov 2019 15:52

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-009-IDW/GW-20191107

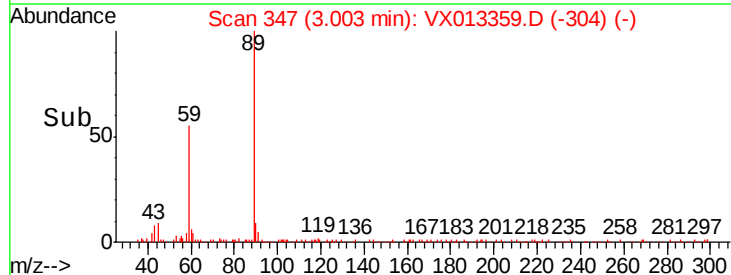
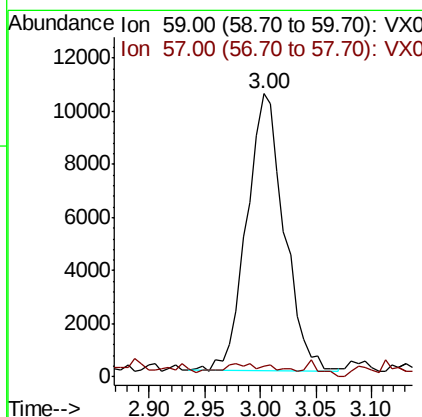
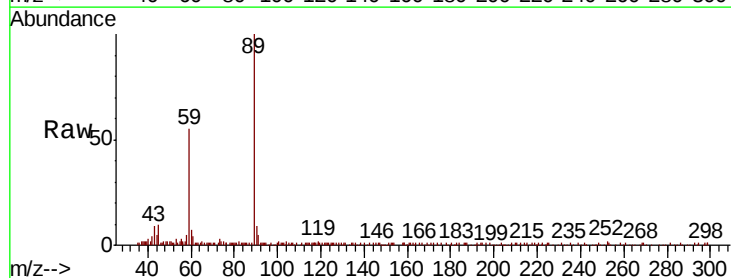
Tot Ion:101 Resp: 4074
 Ion Ratio Lower Upper
 101 100
 103 45.8 52.3 78.5#

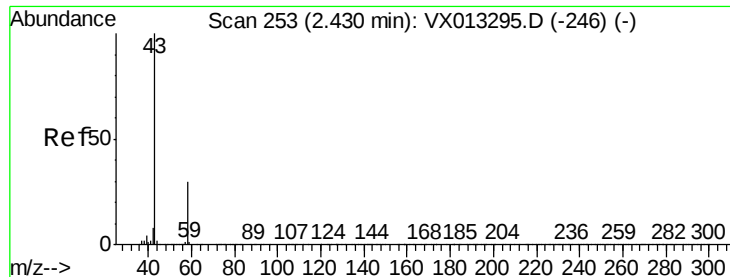


#11

Tert butyl alcohol
 Concen: 9.584 ug/l
 RT: 3.00 min Scan# 347
 Delta R.T. -0.04 min
 Lab File: VX013359.D
 Acq: 08 Nov 2019 15:52

Tgt Ion: 59 Resp: 24382
 Ion Ratio Lower Upper
 59 100
 57 5.4 8.0 12.0#





#16

Acetone

Concen: 1.761 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013359.D

Acq: 08 Nov 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

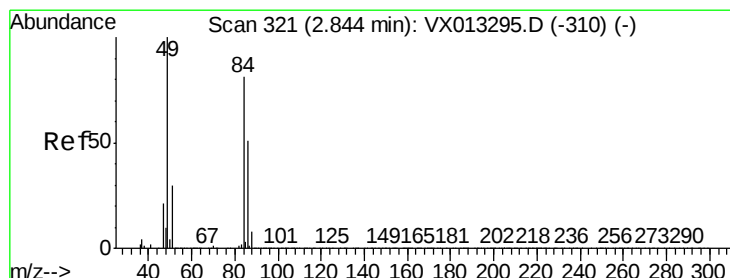
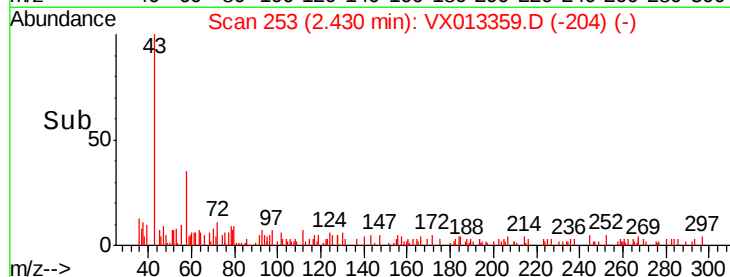
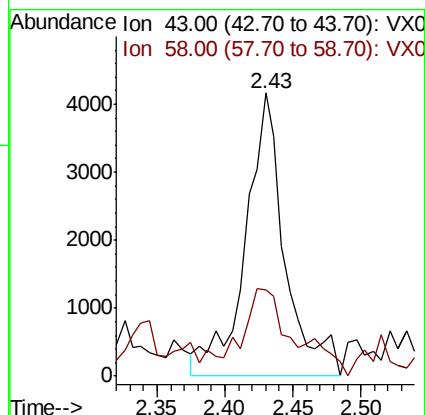
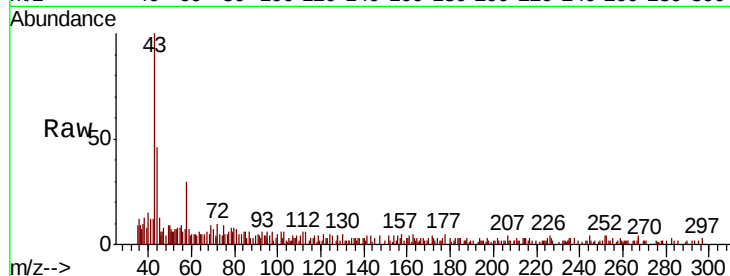
TT-009-IDW/GW-20191107

Tot Ion: 43 Resp: 8479

Ion Ratio Lower Upper

43 100

58 25.2 24.3 36.5



#20

Methylene Chloride

Concen: 0.283 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.01 min

Lab File: VX013359.D

Acq: 08 Nov 2019 15:52

Tgt Ion: 84 Resp: 2520

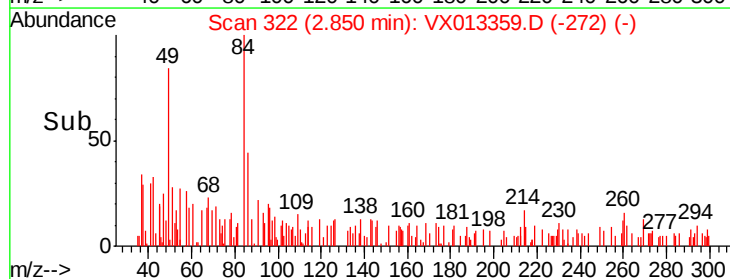
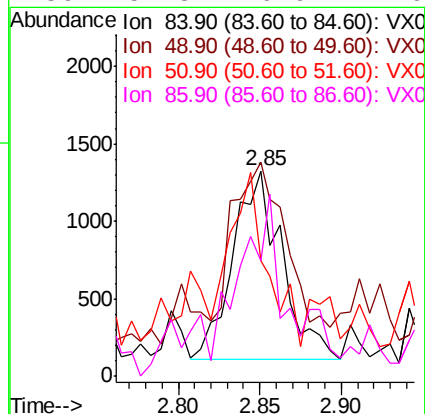
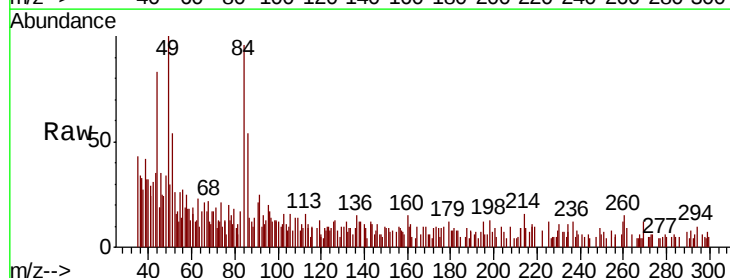
Ion Ratio Lower Upper

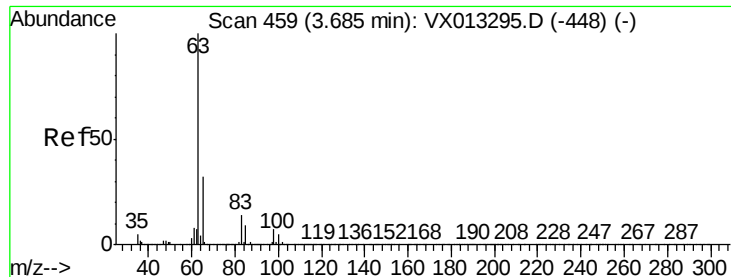
84 100

49 80.0 98.2 147.4#

51 41.9 29.9 44.9

86 51.8 49.9 74.9





#24

1,1-Dichloroethane

Concen: 0.408 ug/l

RT: 3.68 min Scan# 458

Delta R.T. -0.01 min

Lab File: VX013359.D

Acq: 08 Nov 2019 15:52

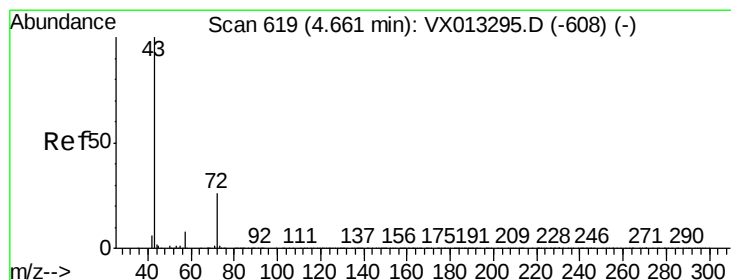
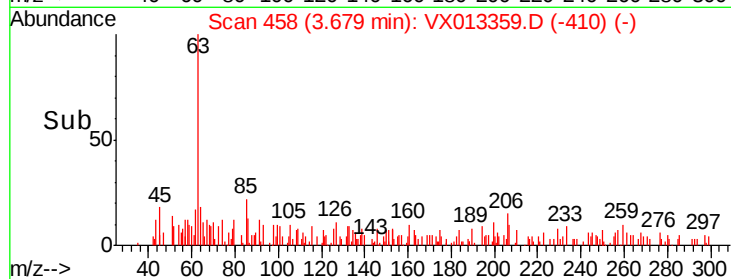
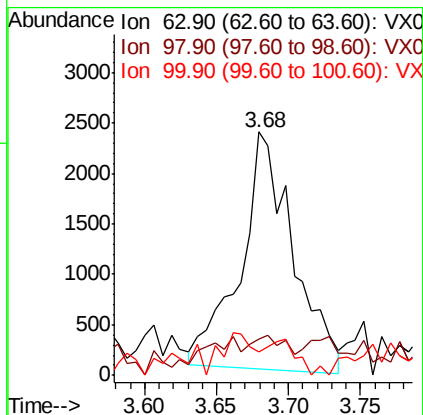
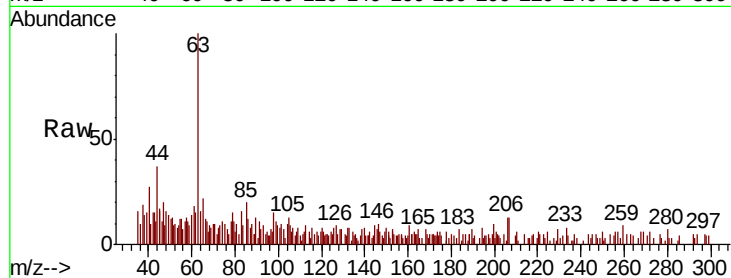
Instrument :

MSVOA_X

ClientSampleId :

TT-009-IDWGW-20191107

Tot Ion:	63	Resp:	5984
Ion	Ratio	Lower	Upper
63	100		
98	11.3	3.5	10.4#
100	5.0	2.4	7.2



#25

2-Butanone

Concen: 0.265 ug/l

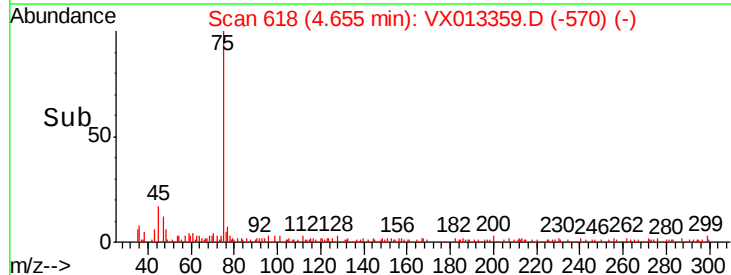
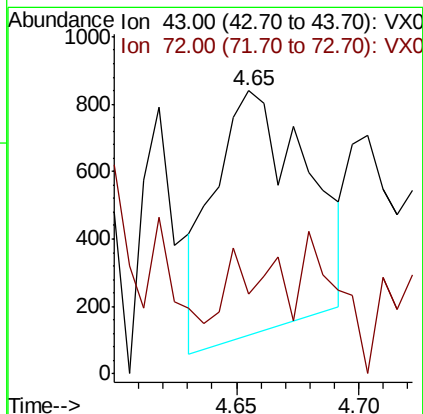
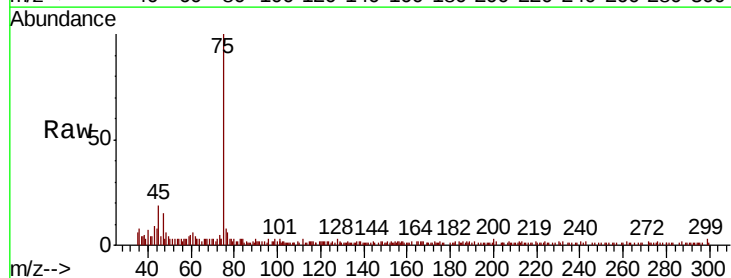
RT: 4.65 min Scan# 618

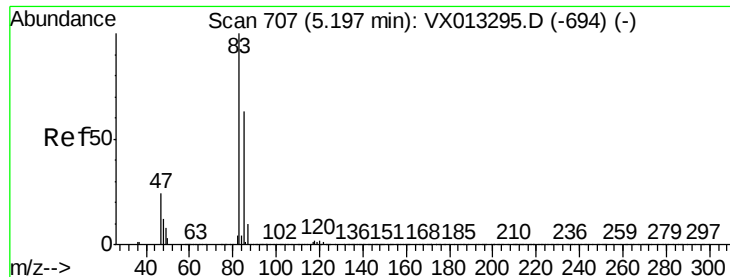
Delta R.T. -0.01 min

Lab File: VX013359.D

Acq: 08 Nov 2019 15:52

Tgt Ion:	43	Resp:	1874
Ion	Ratio	Lower	Upper
43	100		
72	9.5	21.0	31.6#

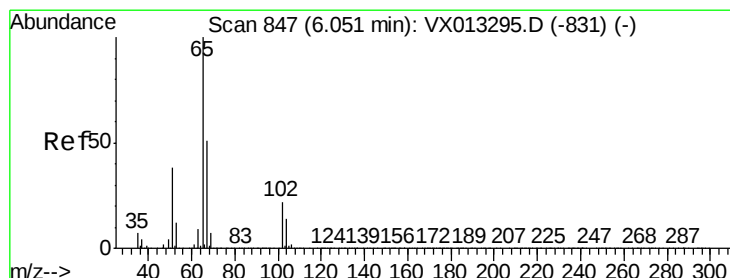
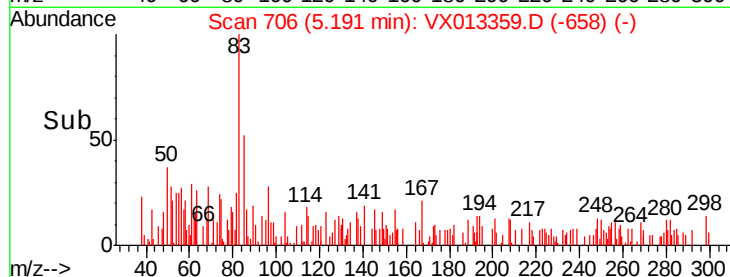
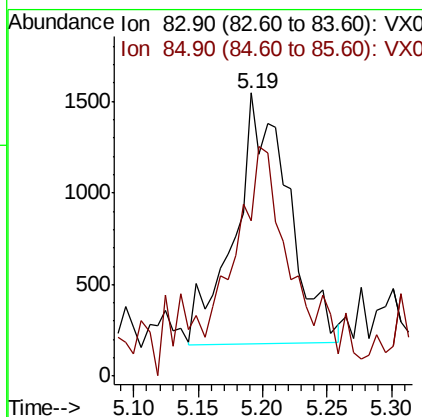
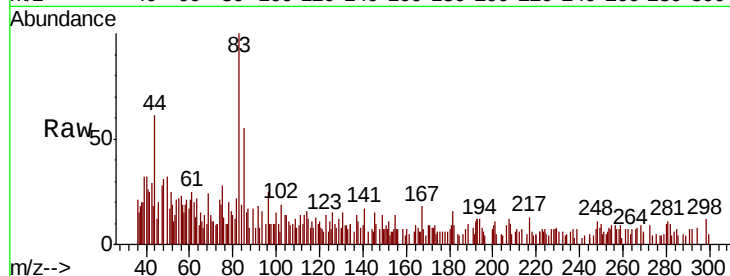




#30
Chloroform
Concen: 0.273 ug/l
RT: 5.19 min Scan# 706
Delta R.T. -0.01 min
Lab File: VX013359.D
Acq: 08 Nov 2019 15:52

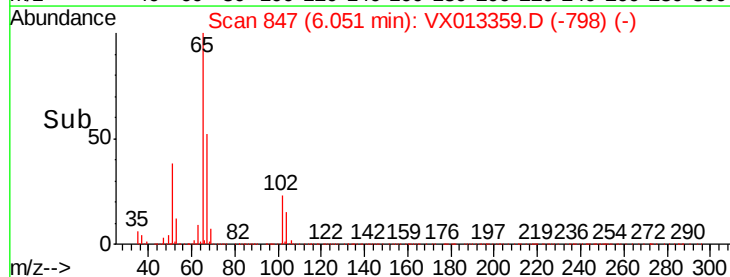
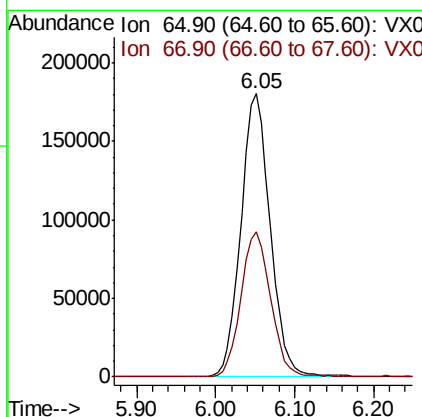
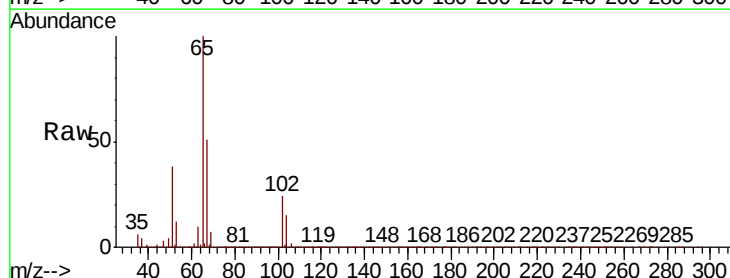
Instrument :
MSVOA_X
ClientSampleId :
TT-009-IDW/GW-20191107

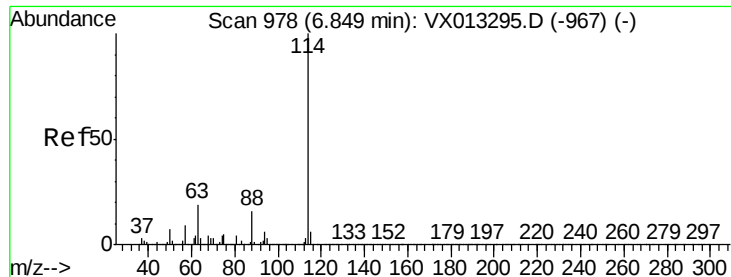
Tot Ion: 83 Resp: 3951
Ion Ratio Lower Upper
83 100
85 53.5 50.2 75.4



#33
1,2-Dichloroethane-d4
Concen: 48.102 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX013359.D
Acq: 08 Nov 2019 15:52

Tgt Ion: 65 Resp: 464308
Ion Ratio Lower Upper
65 100
67 51.7 0.0 104.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013359.D

Acq: 08 Nov 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

TT-009-IDW/GW-20191107

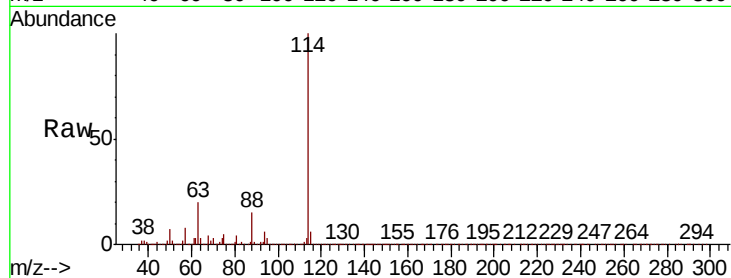
Tot Ion:114 Resp: 1287557

Ion Ratio Lower Upper

114 100

63 19.5 0.0 38.4

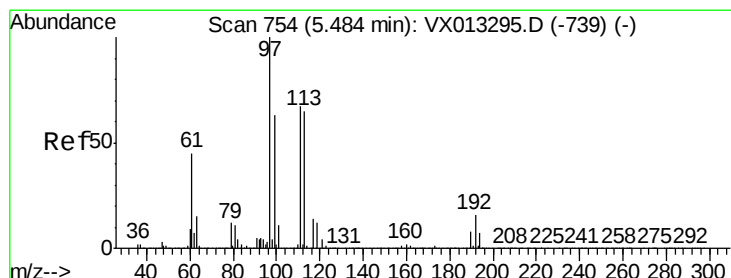
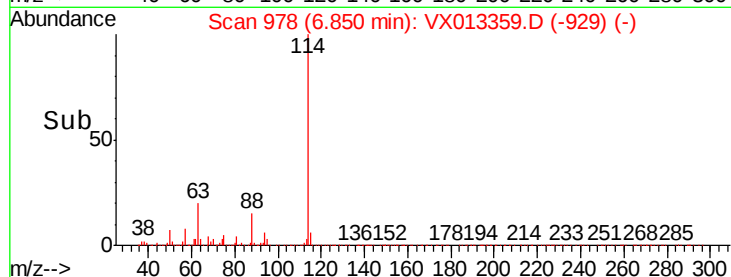
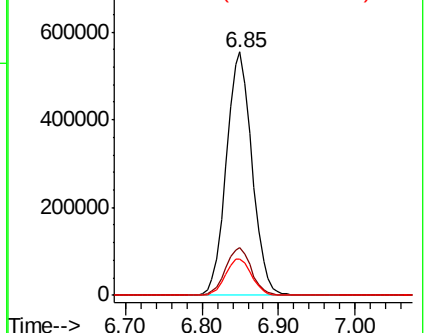
88 14.8 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.478 ug/l

RT: 5.48 min Scan# 754

Delta R.T. 0.00 min

Lab File: VX013359.D

Acq: 08 Nov 2019 15:52

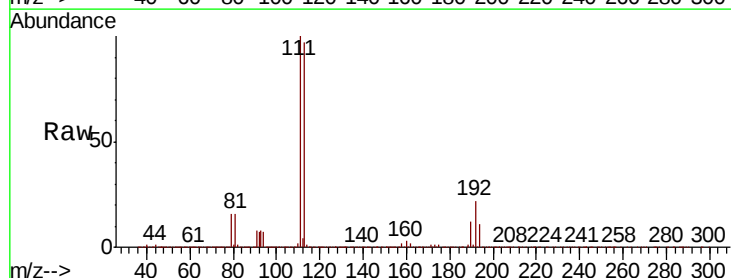
Tgt Ion:113 Resp: 383421

Ion Ratio Lower Upper

113 100

111 102.5 81.9 122.9

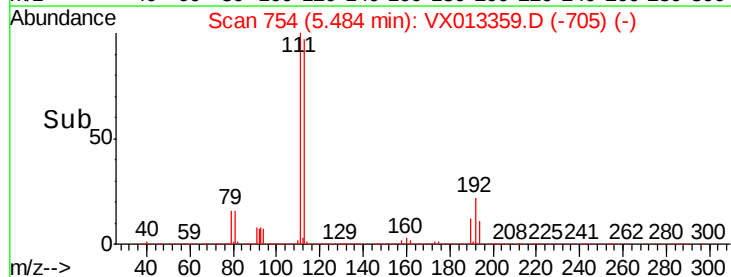
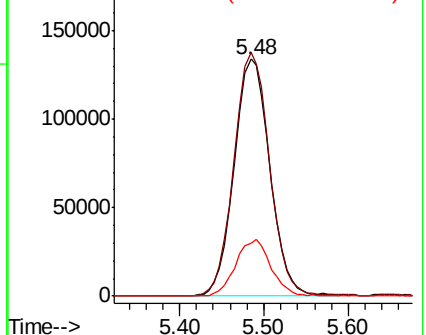
192 23.5 19.1 28.7

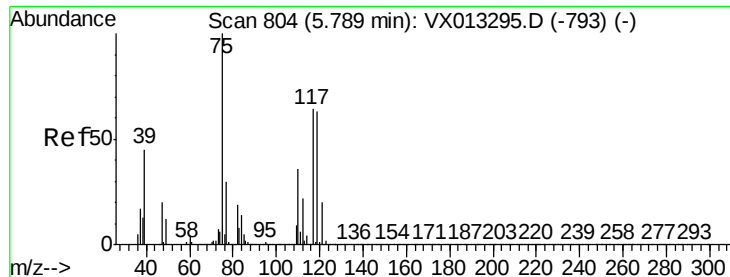


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

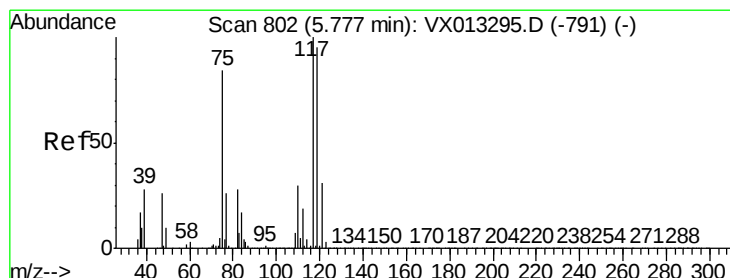
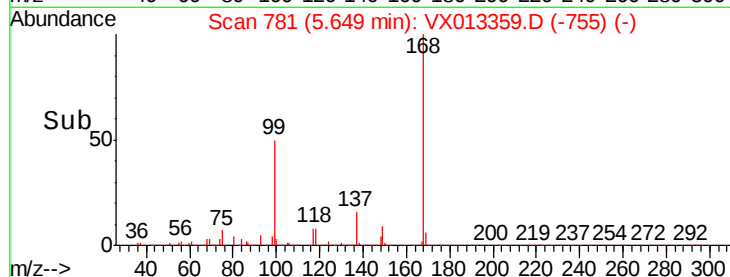
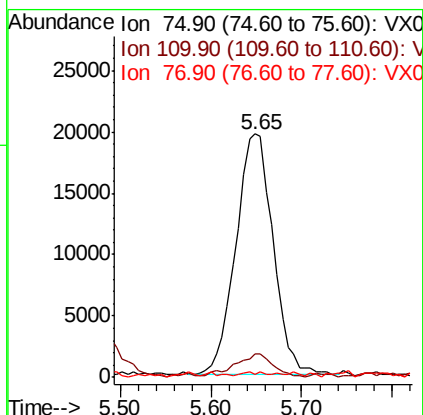
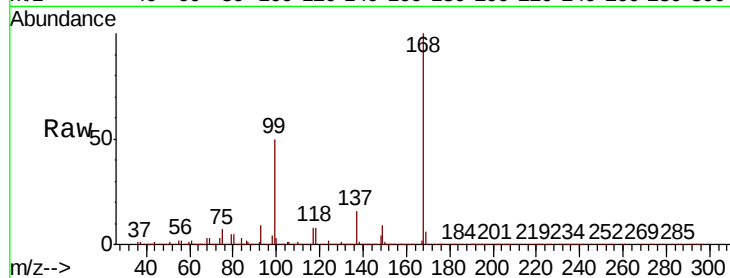




#36
 1,1-Dichloropropene
 Concen: 5.069 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013359.D
 Acq: 08 Nov 2019 15:52

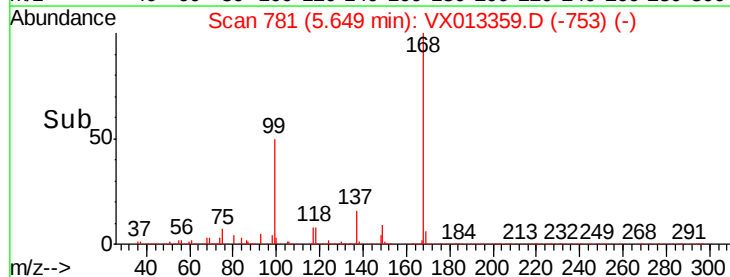
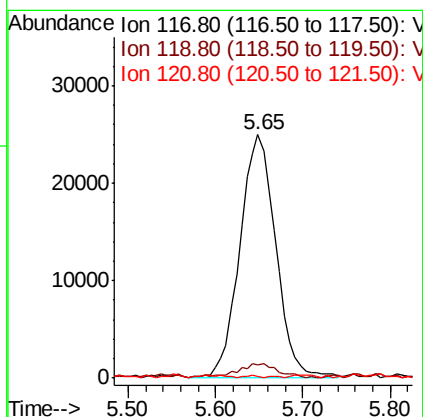
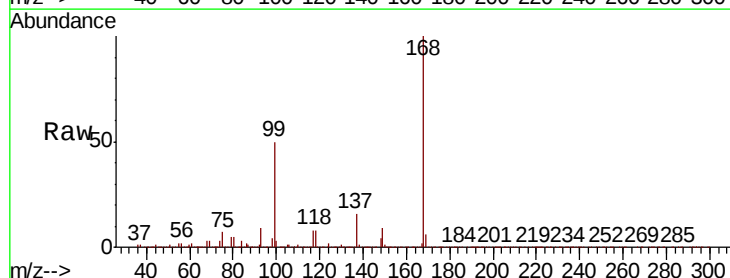
Instrument :
 MSVOA_X
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 TT-009-IDW/GW-20191107

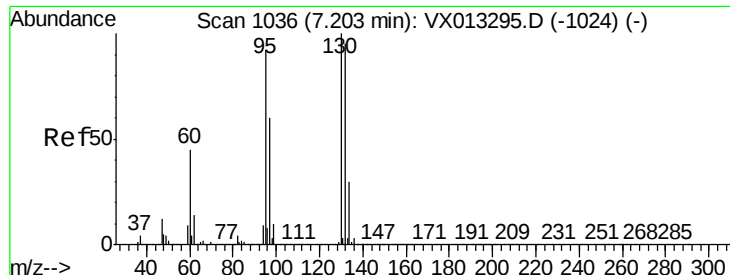
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.1	18.1	54.1#
77	1.2	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.560 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX013359.D
 Acq: 08 Nov 2019 15:52

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.1	76.1	114.1#
121	0.2	24.6	37.0#





#44

Trichloroethene

Concen: 2.522 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013359.D

Acq: 08 Nov 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

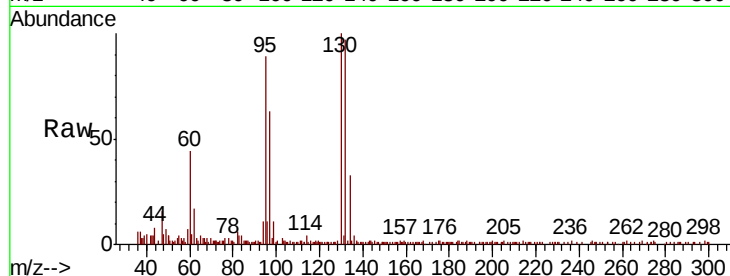
TT-009-IDW/GW-20191107

Tot Ion:130 Resp: 23888

Ion Ratio Lower Upper

130 100

95 87.9 0.0 184.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

12000

10000

8000

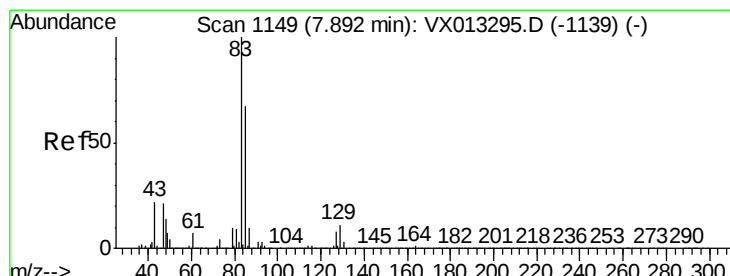
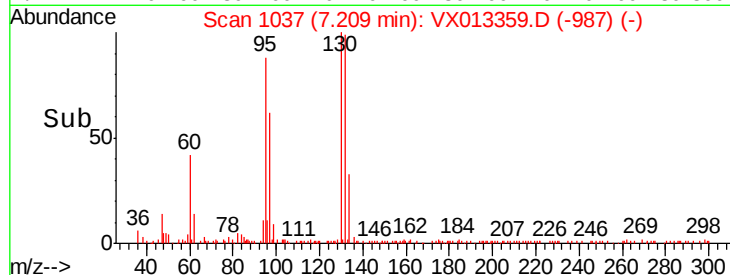
6000

4000

2000

0

Time--> 7.10 7.15 7.20 7.25 7.30



#47

Bromodichloromethane

Concen: 0.251 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. 0.00 min

Lab File: VX013359.D

Acq: 08 Nov 2019 15:52

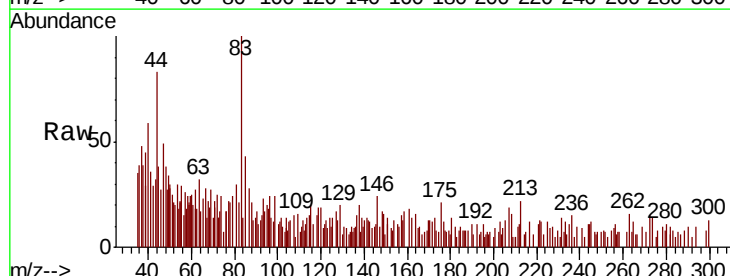
Tgt Ion: 83 Resp: 2829

Ion Ratio Lower Upper

83 100

85 26.1 53.7 80.5#

127 10.8 6.4 9.6#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V

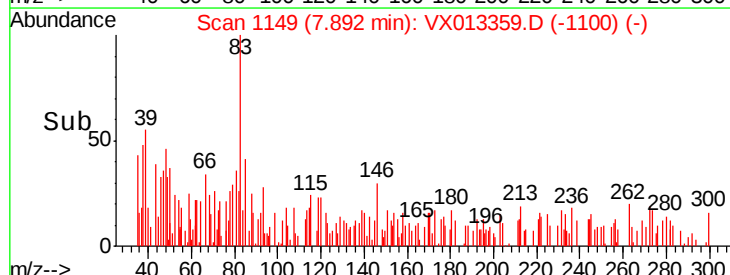
1500

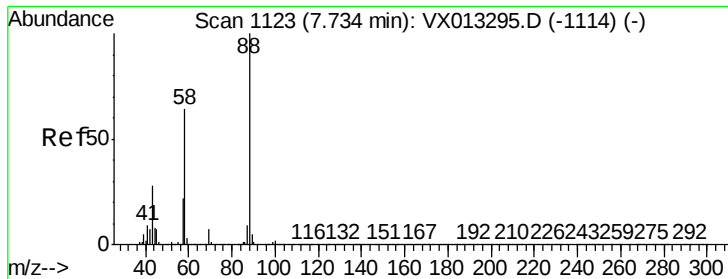
1000

500

0

Time--> 7.85 7.90 7.95





#49

1,4-Dioxane

Concen: 1.161 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX013359.D

Acq: 08 Nov 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

TT-009-IDW/GW-20191107

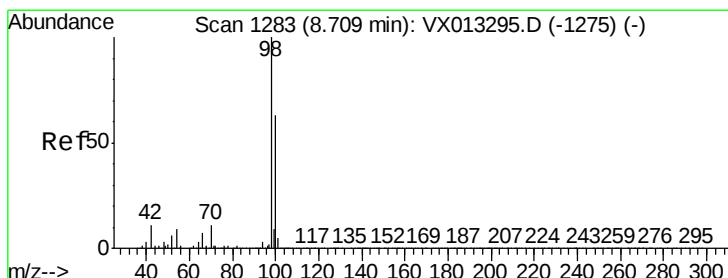
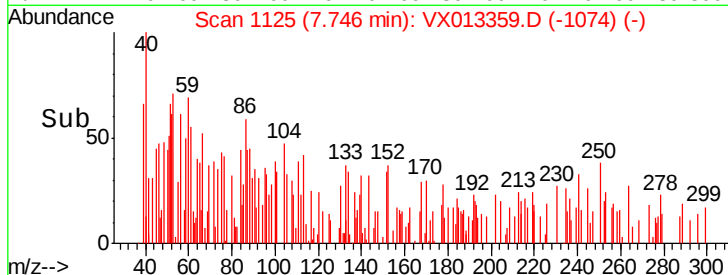
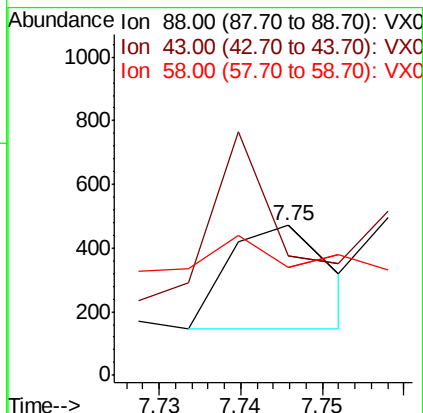
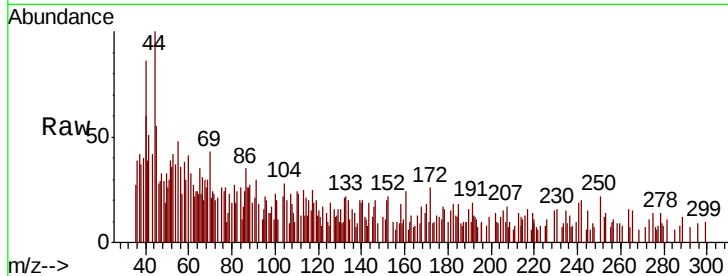
Tot Ion: 88 Resp: 282

Ion Ratio Lower Upper

88 100

43 397.9 26.6 39.8#

58 128.7 55.0 82.6#



#50

Toluene-d8

Concen: 50.240 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013359.D

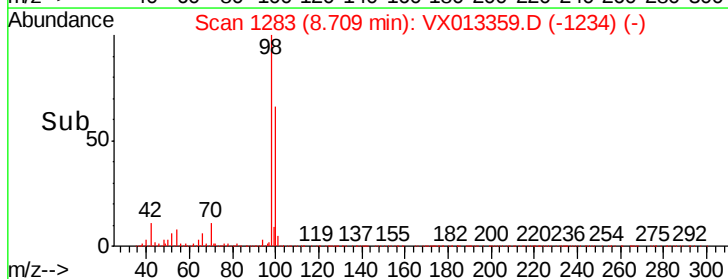
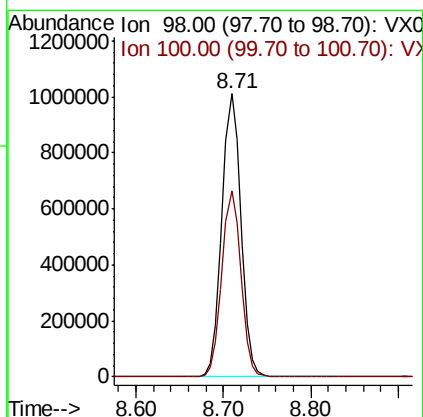
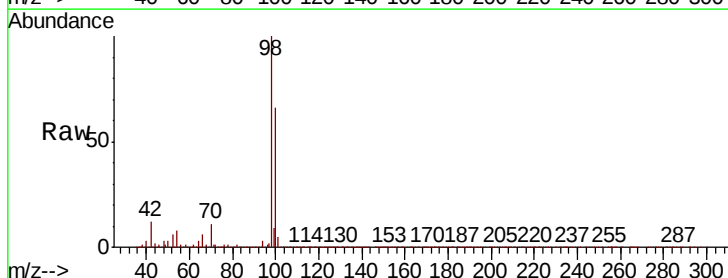
Acq: 08 Nov 2019 15:52

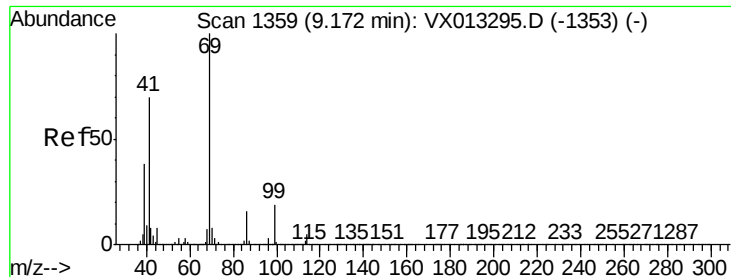
Tgt Ion: 98 Resp: 1529527

Ion Ratio Lower Upper

98 100

100 65.6 52.2 78.2





#56

Ethyl methacrylate

Concen: 1.580 ug/l

RT: 9.20 min Scan# 1364

Delta R.T. 0.03 min

Lab File: VX013359.D

Acq: 08 Nov 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

TT-009-IDW/GW-20191107

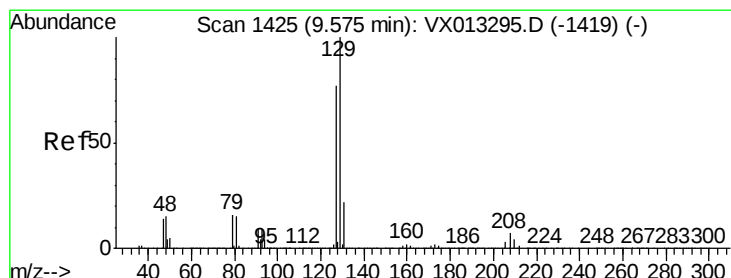
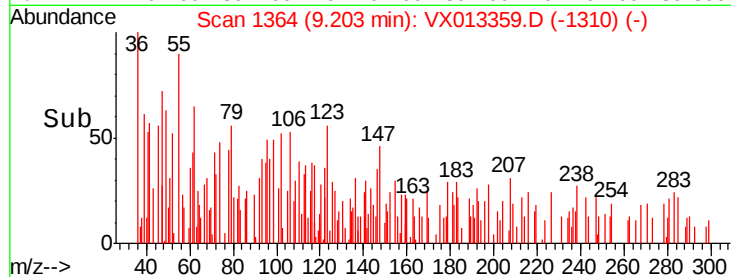
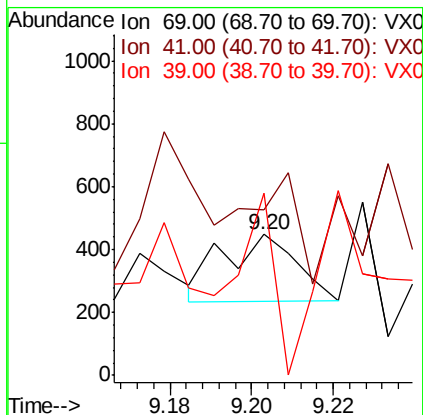
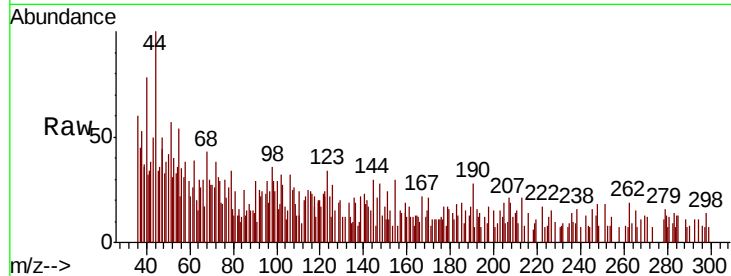
Tot Ion: 69 Resp: 265

Ion Ratio Lower Upper

69 100

41 0.0 56.2 84.2#

39 124.2 31.1 46.7#



#60

Dibromochloromethane

Concen: 0.348 ug/l

RT: 9.58 min Scan# 1426

Delta R.T. 0.01 min

Lab File: VX013359.D

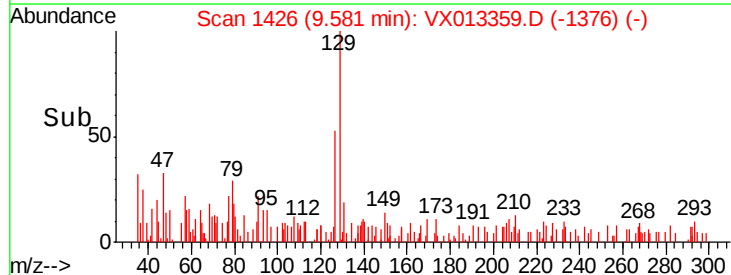
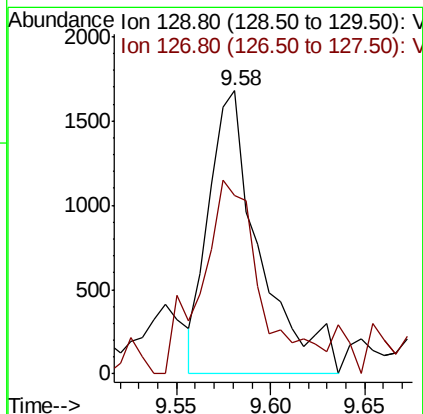
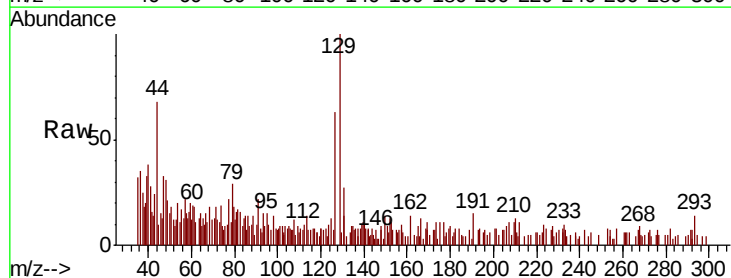
Acq: 08 Nov 2019 15:52

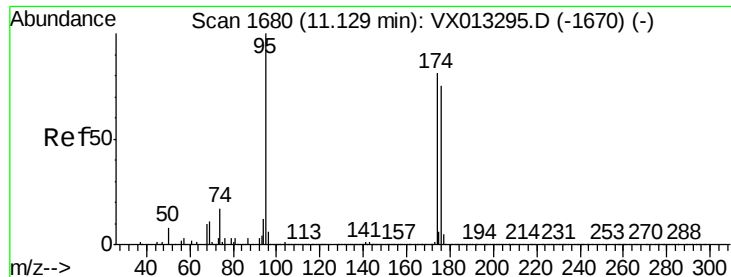
Tgt Ion: 129 Resp: 3142

Ion Ratio Lower Upper

129 100

127 80.9 39.1 117.2





#62

4-Bromofluorobenzene

Concen: 46.013 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VX013359.D

Acq: 08 Nov 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

TT-009-IDW/GW-20191107

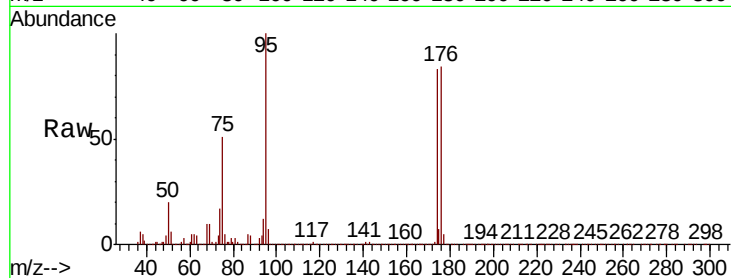
Tot Ion: 95 Resp: 505578

Ion Ratio Lower Upper

95 100

174 90.2 0.0 179.8

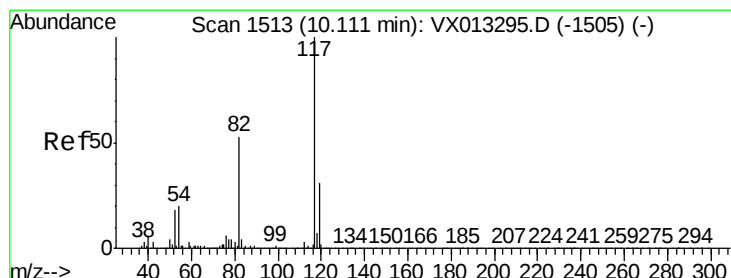
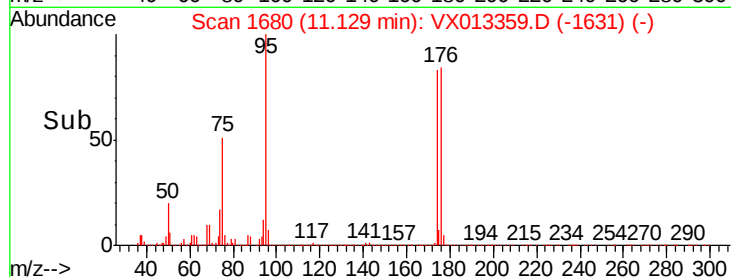
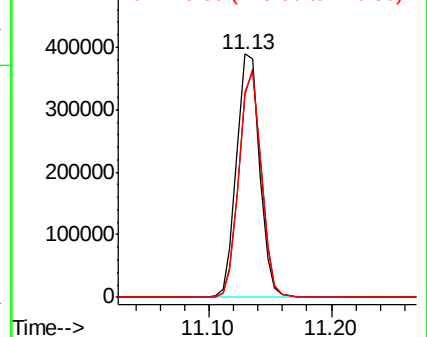
176 89.9 0.0 173.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1512

Delta R.T. -0.01 min

Lab File: VX013359.D

Acq: 08 Nov 2019 15:52

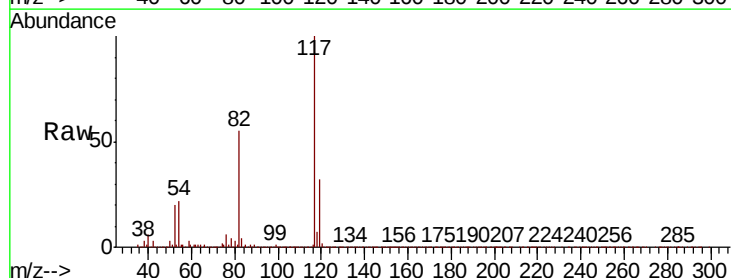
Tgt Ion: 117 Resp: 1143225

Ion Ratio Lower Upper

117 100

82 54.5 42.6 64.0

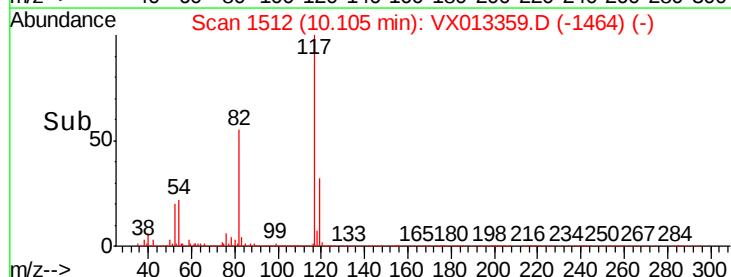
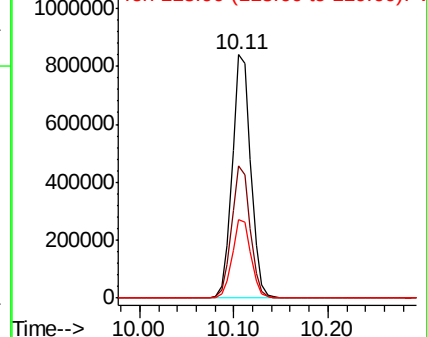
119 32.3 24.8 37.2

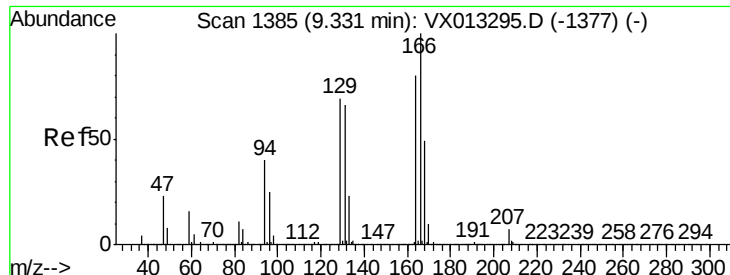


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.423 ug/l

RT: 9.34 min Scan# 1386

Delta R.T. 0.01 min

Lab File: VX013359.D

Acq: 08 Nov 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

TT-009-IDW/GW-20191107

Tot Ion:164 Resp: 3465

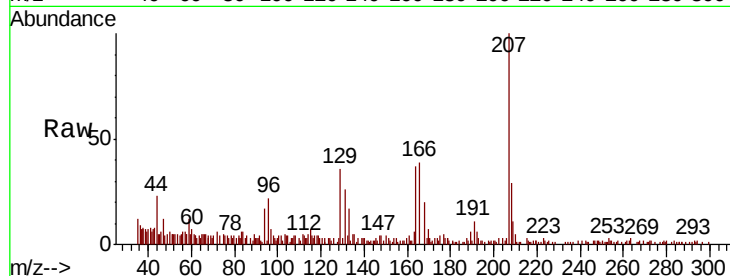
Ion Ratio Lower Upper

164 100

166 98.7 100.4 150.6#

129 93.2 69.4 104.2

131 61.1 66.6 100.0#

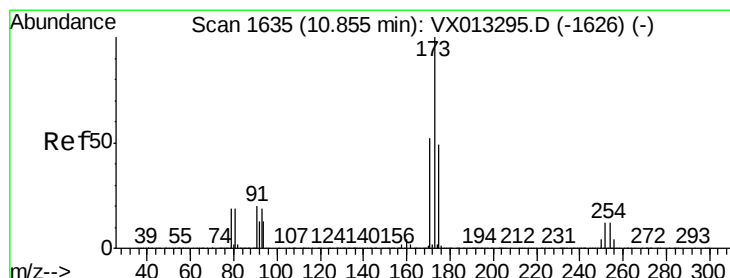
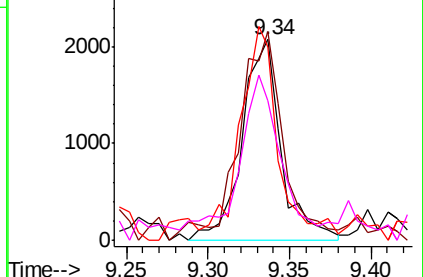
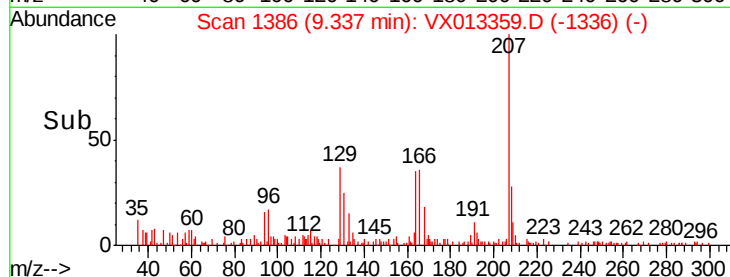


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 3.485 ug/l

RT: 10.86 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VX013359.D

Acq: 08 Nov 2019 15:52

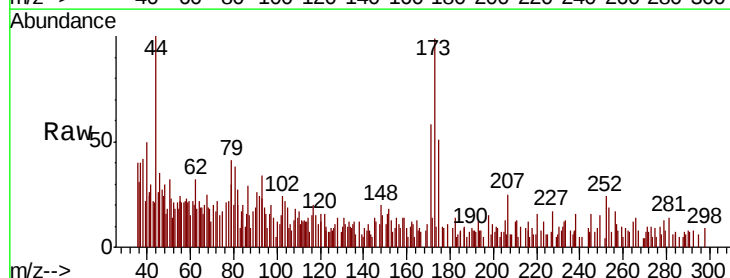
Tgt Ion:173 Resp: 2375

Ion Ratio Lower Upper

173 100

175 40.6 24.8 74.4

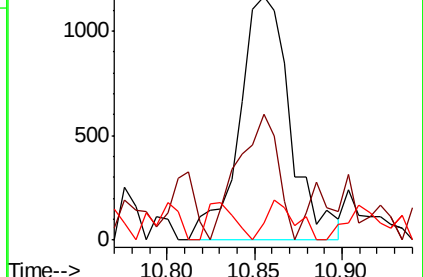
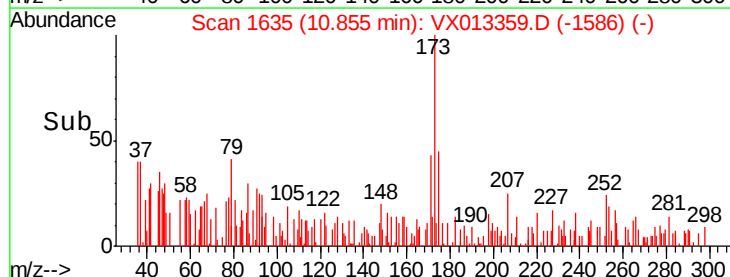
254 9.3 0.2 0.2#

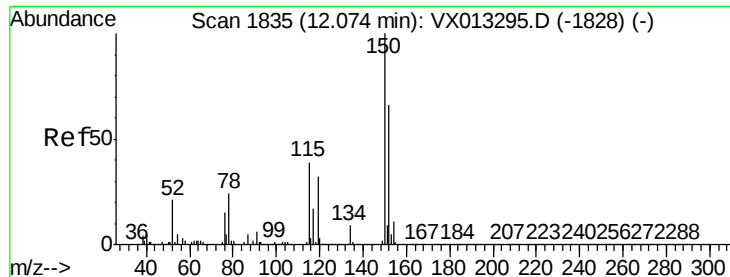


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013359.D

Acq: 08 Nov 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

TT-009-IDW/GW-20191107

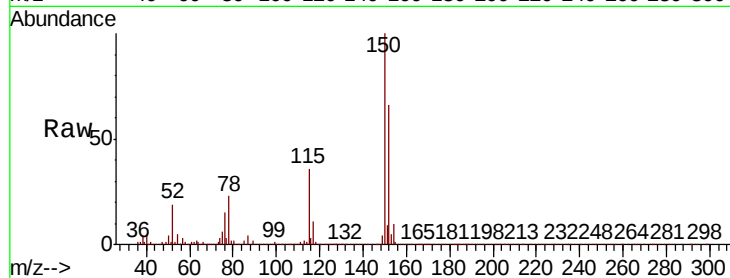
Tot Ion:152 Resp: 526660

Ion Ratio Lower Upper

152 100

115 55.0 39.5 118.3

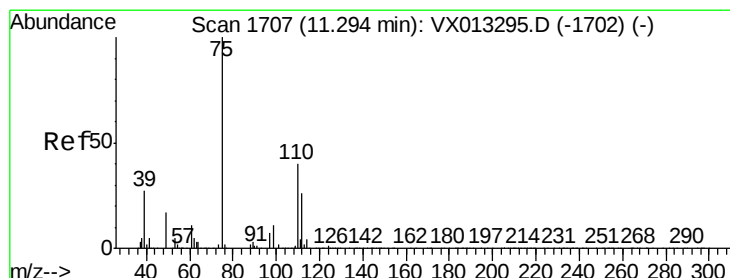
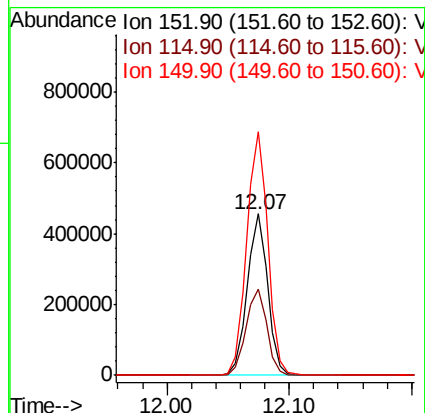
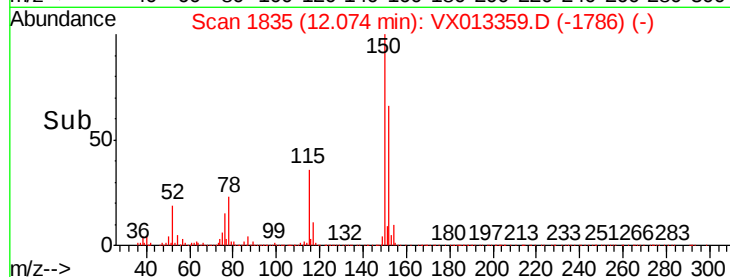
150 155.3 0.0 344.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.712 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013359.D

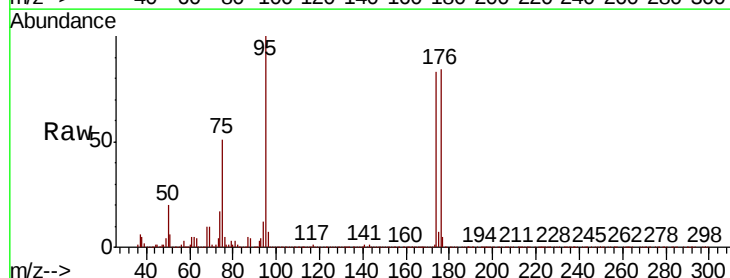
Acq: 08 Nov 2019 15:52

Tgt Ion: 75 Resp: 253652

Ion Ratio Lower Upper

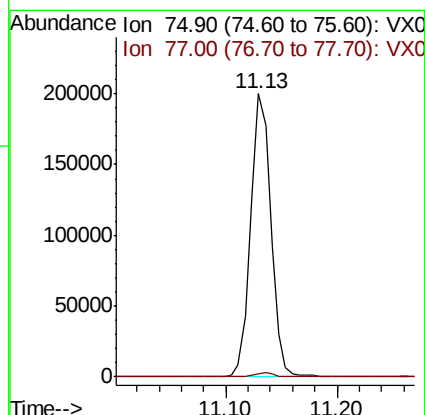
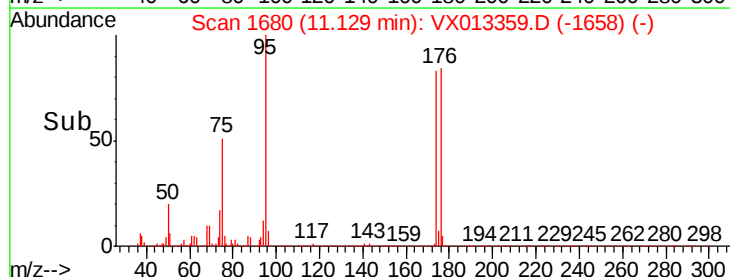
75 100

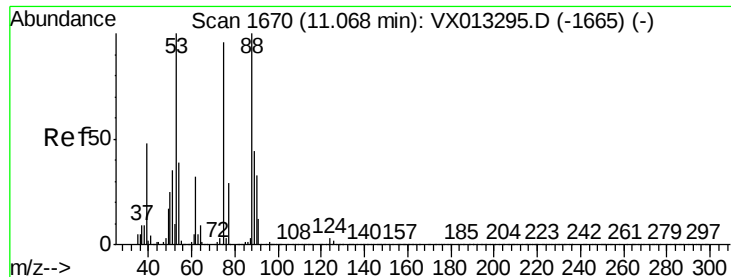
77 1.5 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 61.034 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013359.D

Acq: 08 Nov 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

TT-009-IDW/GW-20191107

Tot Ion: 75 Resp: 253652

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

89 0.1 36.0 54.0#

