

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051419\
 Data File : VX009563.D
 Acq On : 14 May 2019 15:40
 Operator : JC/SP
 Sample : K2852-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-GROUNDWATER

Quant Time: May 15 01:54:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	194788	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	308680	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	268296	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	110371	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	126401	47.54	ug/l	0.00
Spiked Amount			Recovery	=	95.08%	
35) Dibromofluoromethane	5.50	113	92371	47.60	ug/l	0.00
Spiked Amount			Recovery	=	95.20%	
50) Toluene-d8	8.71	98	385195	49.17	ug/l	0.00
Spiked Amount			Recovery	=	98.34%	
62) 4-Bromofluorobenzene	11.13	95	125139	43.96	ug/l	0.00
Spiked Amount			Recovery	=	87.92%	

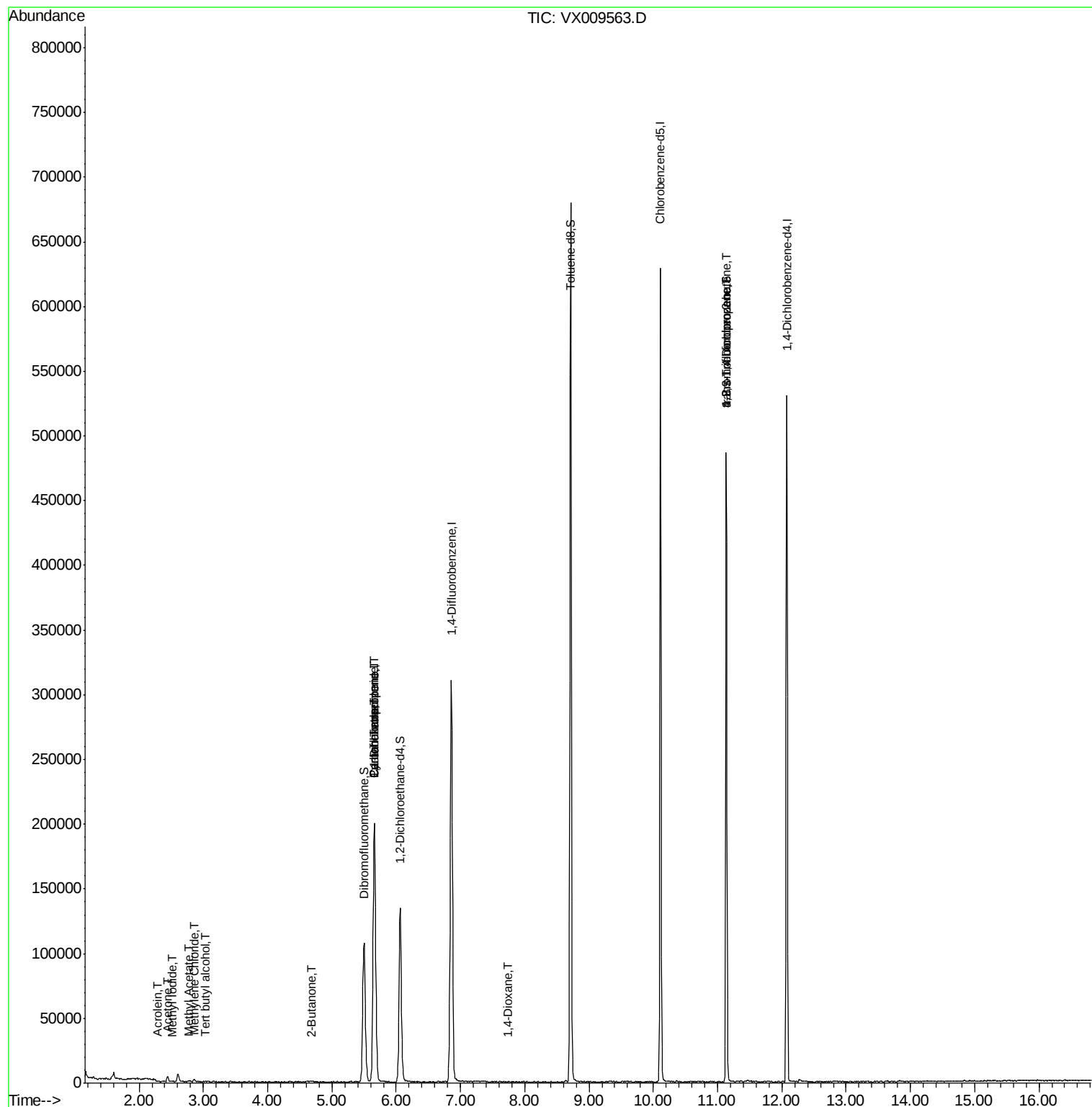
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.51	142	187	4.674	ug/l #	58
11) Tert butyl alcohol	3.03	59	390	0.634	ug/l #	76
13) Acrolein	2.29	56	128	0.230	ug/l	85
16) Acetone	2.45	43	4719	3.305	ug/l	97
18) Methyl Acetate	2.78	43	1176	0.346	ug/l #	77
20) Methylene Chloride	2.86	84	838	0.362	ug/l	89
25) 2-Butanone	4.67	43	448	0.202	ug/l #	53
28) Bromochloromethane	5.03	49	40	Below Cal	#	20
31) Cyclohexane	5.65	56	4384	1.115	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14966	5.217	ug/l #	50
38) Carbon Tetrachloride	5.66	117	17865	6.855	ug/l #	16
49) 1,4-Dioxane	7.73	88	20	0.311	ug/l #	21
76) 1,2,3-Trichloropropane	11.13	75	64466	25.180	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	64466	64.426	ug/l #	10

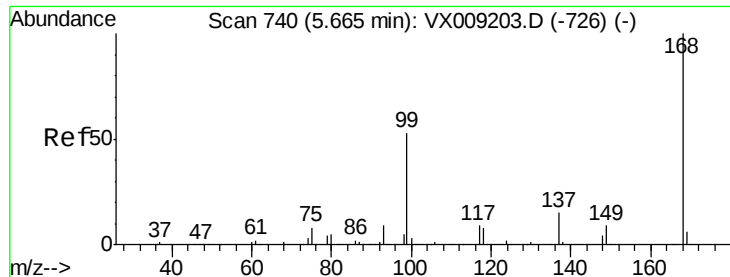
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009563.D

Acq: 14 May 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

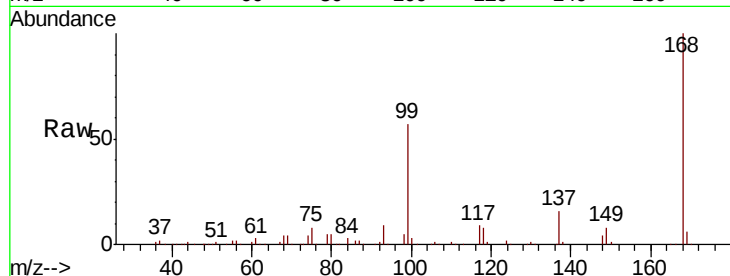
TP-GROUNDWATER

Tot Ion:168 Resp: 194788

Ion Ratio Lower Upper

168 100

99 57.3 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

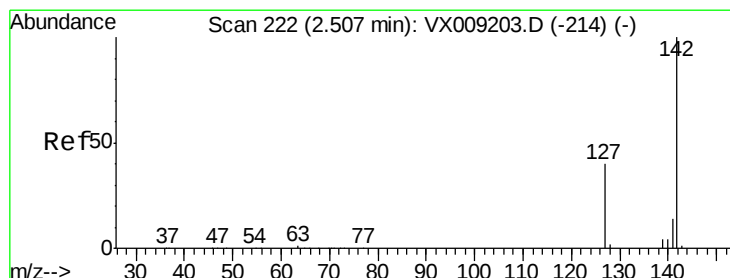
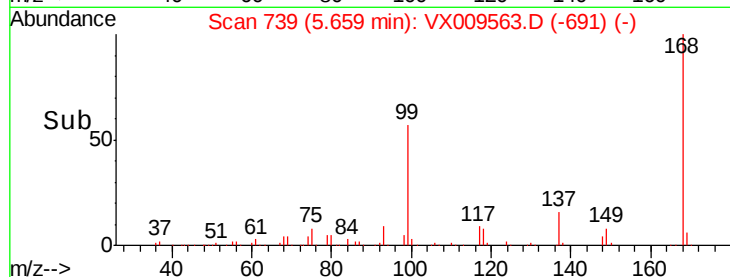
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#10

Methyl Iodide

Concen: 4.674 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX009563.D

Acq: 14 May 2019 15:40

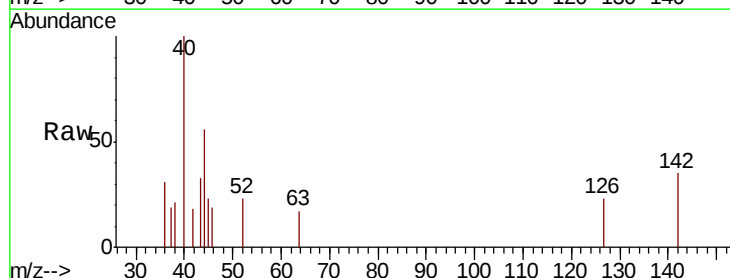
Tgt Ion:142 Resp: 187

Ion Ratio Lower Upper

142 100

127 13.4 32.7 49.1#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

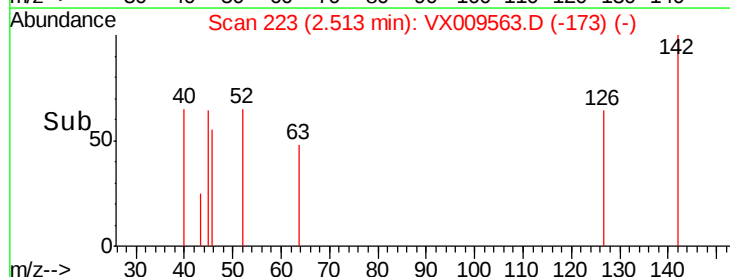
2.51

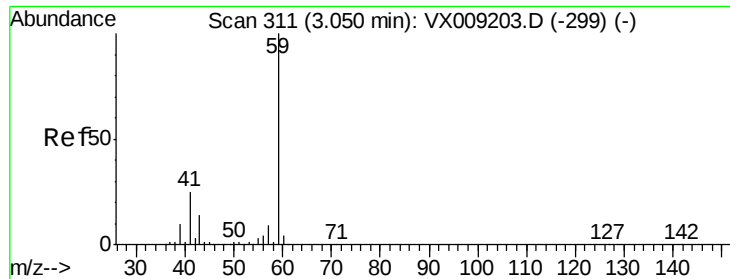
100

50

0

Time--> 2.50 2.55

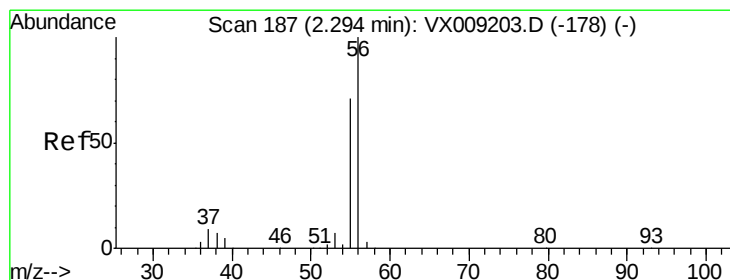
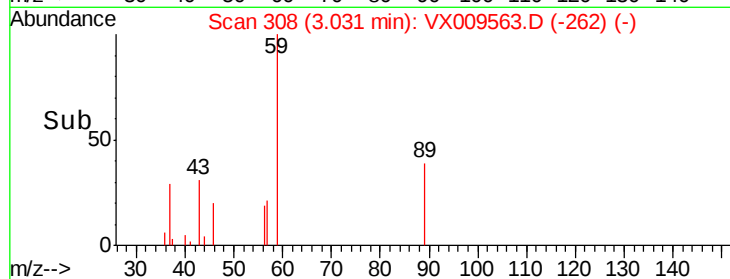
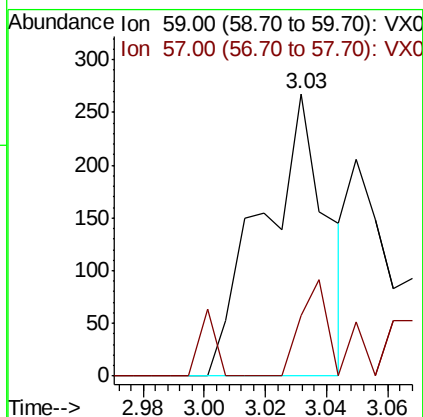
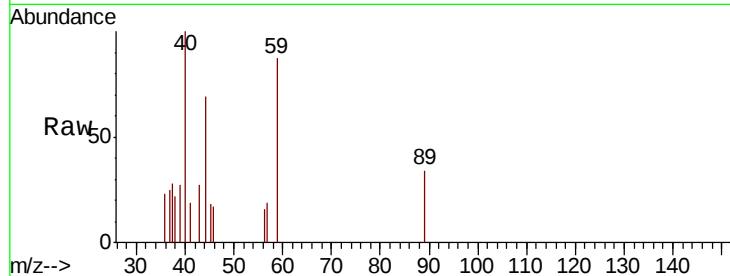




#11
Tert butvl alcohol
Concen: 0.634 ug/l
RT: 3.03 min Scan# 308
Delta R.T. -0.02 min
Lab File: VX009563.D
Acq: 14 May 2019 15:40

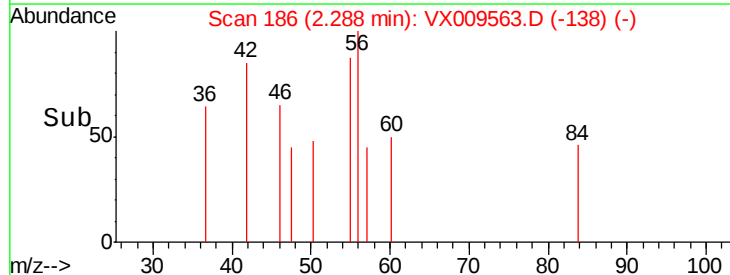
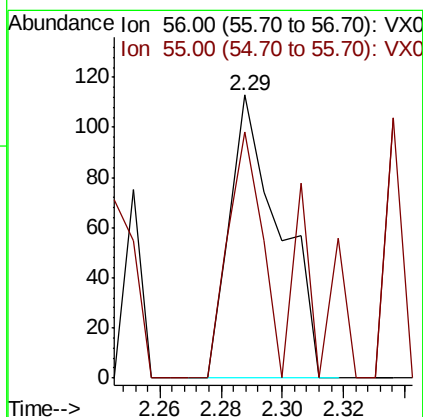
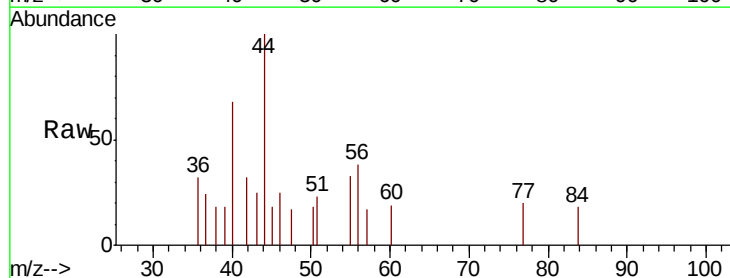
Instrument :
MSVOA_X
ClientSampleId :
TP-GROUNDWATER

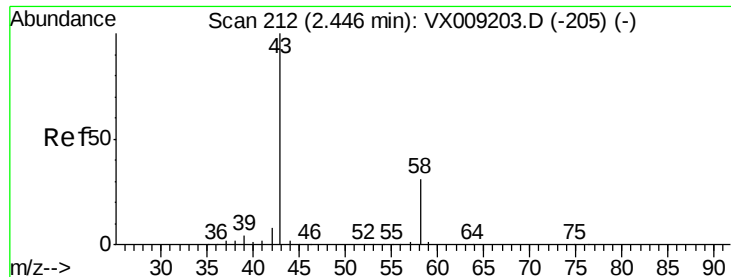
Tot Ion: 59 Resp: 390
Ion Ratio Lower Upper
59 100
57 19.0 8.2 12.2#



#13
Acrolein
Concen: 0.230 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX009563.D
Acq: 14 May 2019 15:40

Tgt Ion: 56 Resp: 128
Ion Ratio Lower Upper
56 100
55 58.6 56.6 85.0





#16

Acetone

Concen: 3.305 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009563.D

Acq: 14 May 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

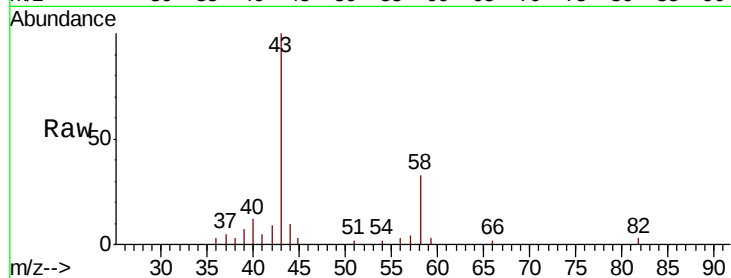
TP-GROUNDWATER

Tot Ion: 43 Resp: 4719

Ion Ratio Lower Upper

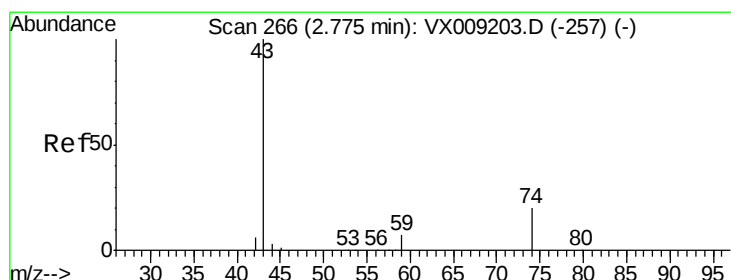
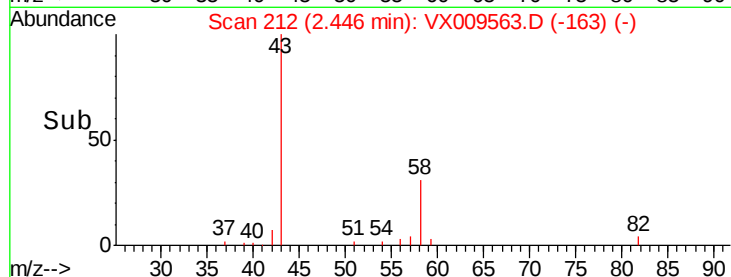
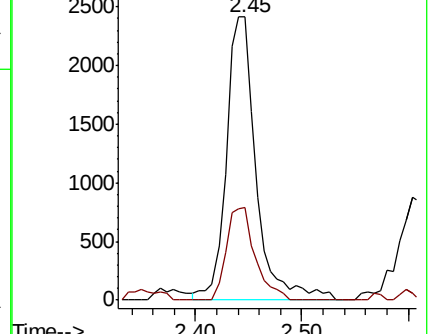
43 100

58 32.7 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.346 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX009563.D

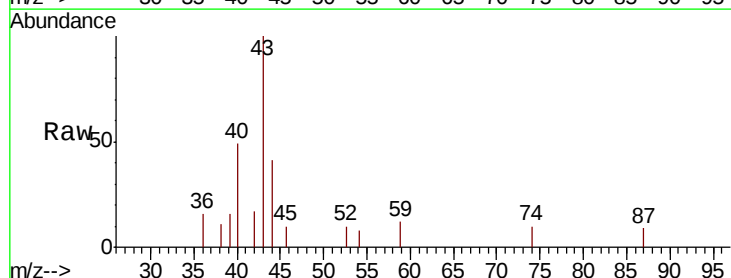
Acq: 14 May 2019 15:40

Tgt Ion: 43 Resp: 1176

Ion Ratio Lower Upper

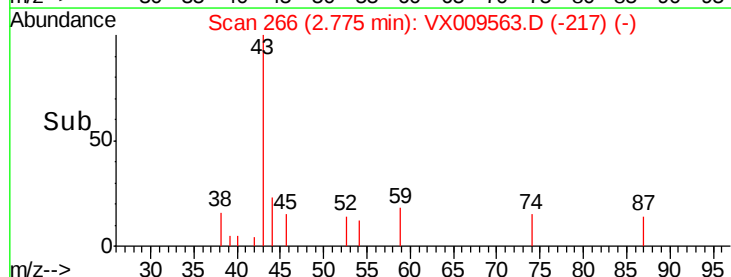
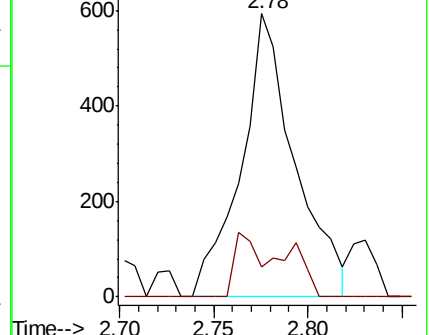
43 100

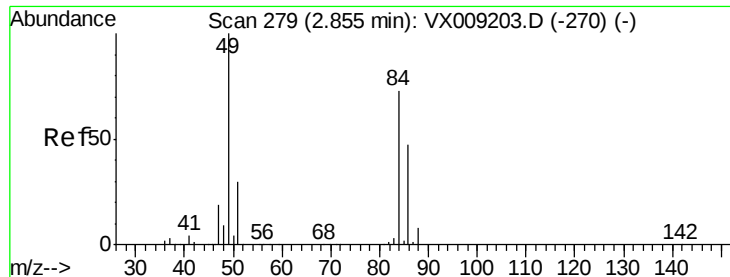
74 9.8 16.2 24.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

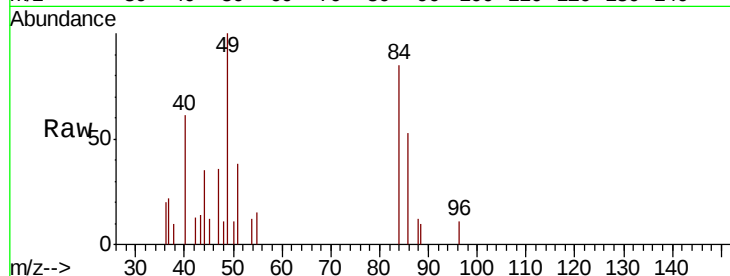




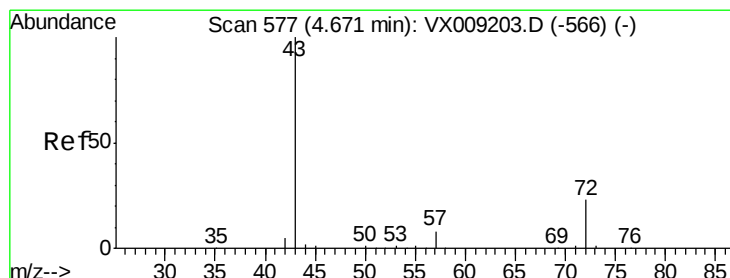
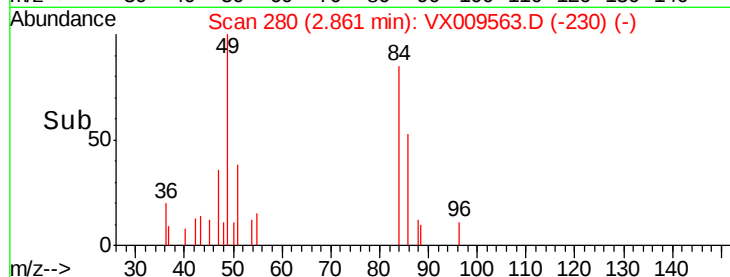
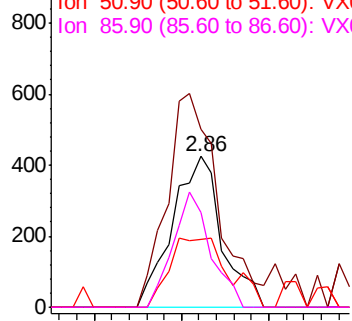
#20
Methvlene Chloride
Concen: 0.362 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX009563.D
Acq: 14 May 2019 15:40

Instrument :
MSVOA_X
ClientSampleId :
TP-GROUNDWATER

Tot Ion: 84 Resp: 838
Ion Ratio Lower Upper
84 100
49 117.9 109.9 164.9
51 44.8 32.7 49.1
86 63.0 52.0 78.0

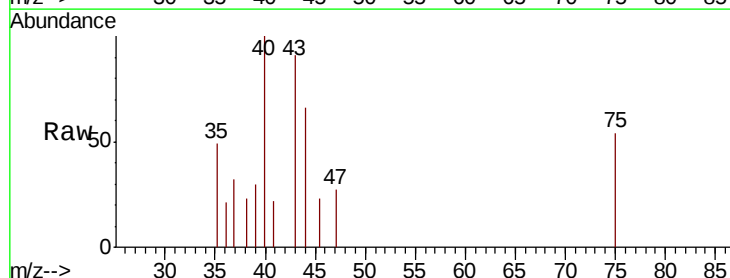


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

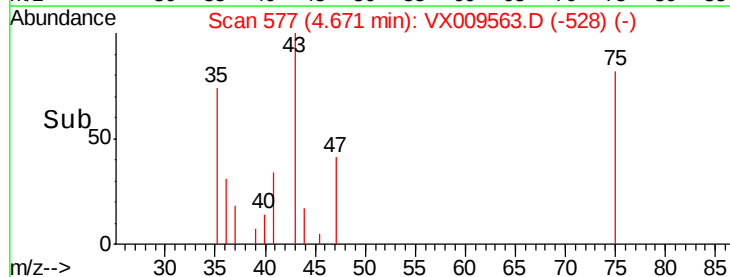
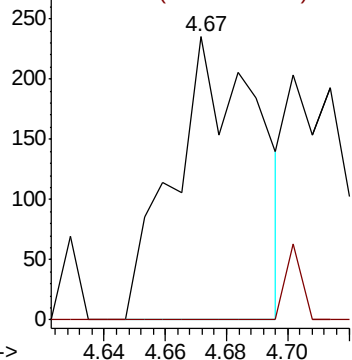


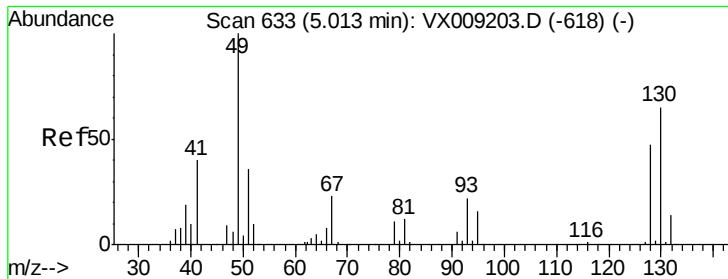
#25
2-Butanone
Concen: 0.202 ug/l
RT: 4.67 min Scan# 577
Delta R.T. 0.00 min
Lab File: VX009563.D
Acq: 14 May 2019 15:40

Tgt Ion: 43 Resp: 448
Ion Ratio Lower Upper
43 100
72 0.0 18.2 27.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 635

Delta R.T. 0.01 min

Lab File: VX009563.D

Acq: 14 May 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

TP-GROUNDWATER

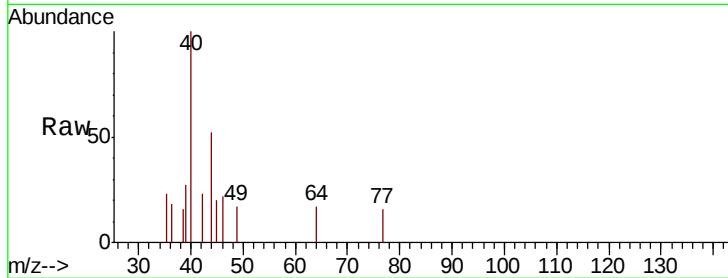
Tot Ion: 49 Resp: 40

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

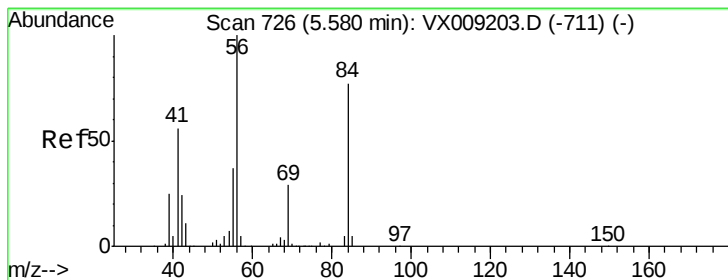
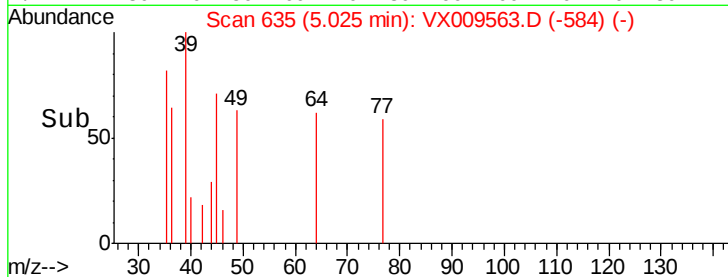
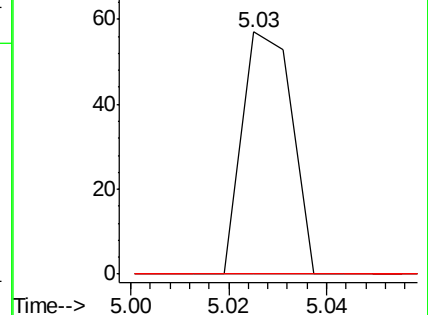
130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#31

Cyclohexane

Concen: 1.115 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.07 min

Lab File: VX009563.D

Acq: 14 May 2019 15:40

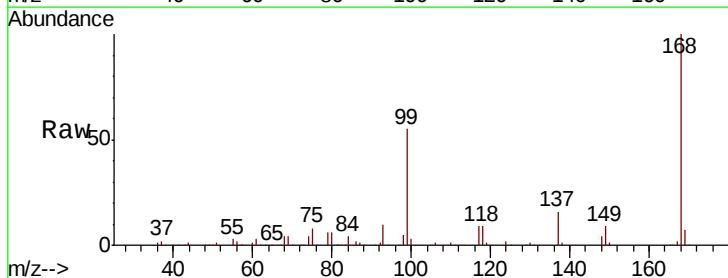
Tgt Ion: 56 Resp: 4384

Ion Ratio Lower Upper

56 100

69 157.0 23.4 35.0#

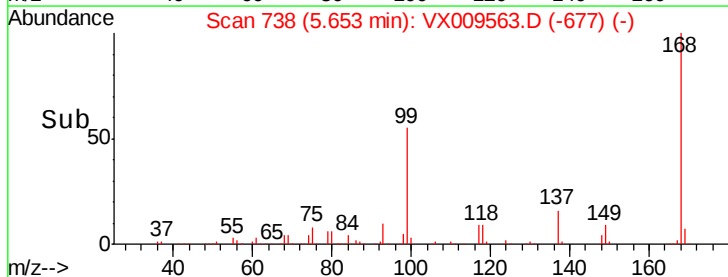
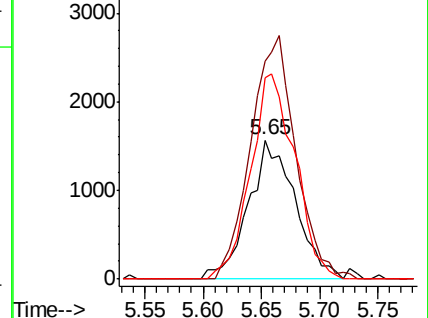
84 145.1 61.9 92.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 47.535 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009563.D

Acq: 14 May 2019 15:40

Instrument :

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ClientSampleId :

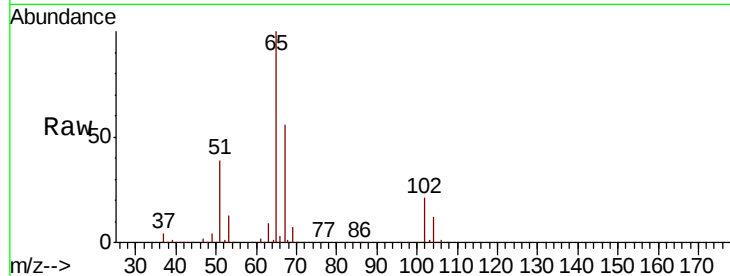
TP-GROUNDWATER

Tot Ion: 65 Resp: 126401

Ion Ratio Lower Upper

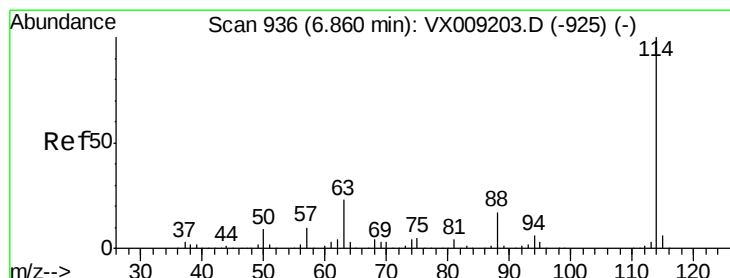
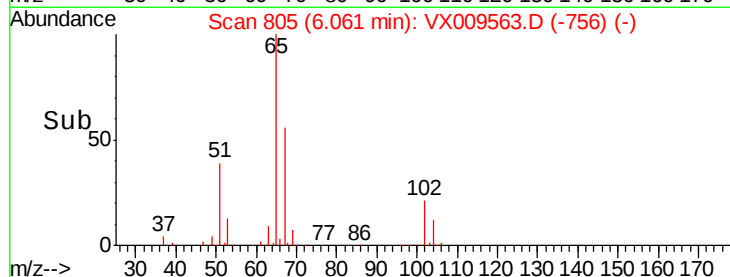
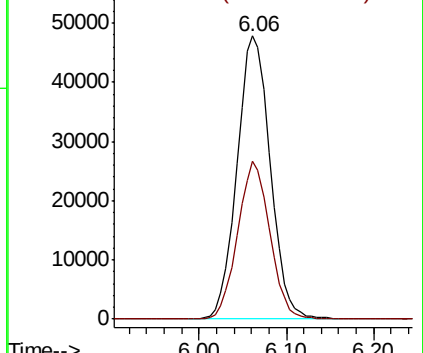
65 100

67 54.1 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX009563.D

Acq: 14 May 2019 15:40

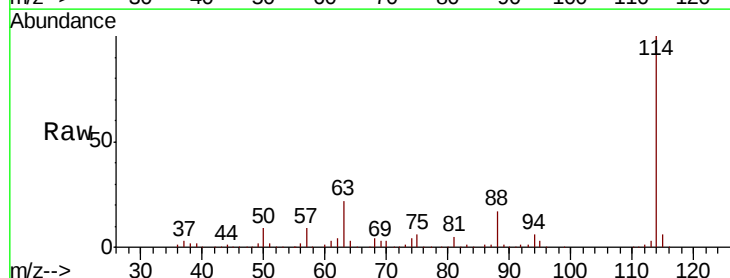
Tgt Ion: 114 Resp: 308680

Ion Ratio Lower Upper

114 100

63 22.4 0.0 45.6

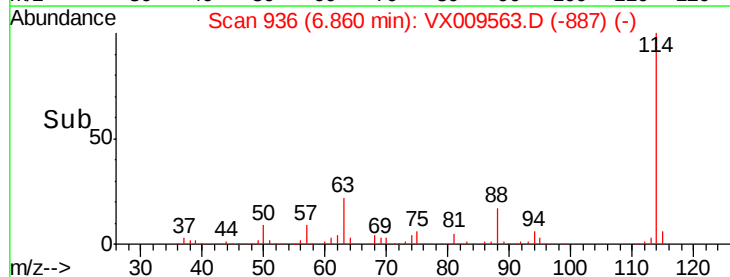
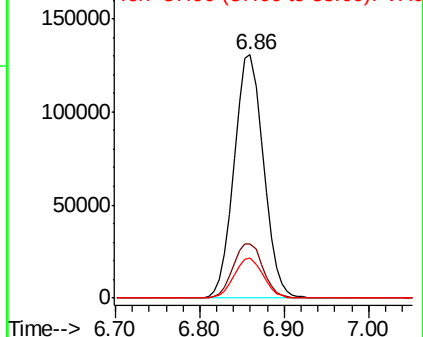
88 16.7 0.0 33.2

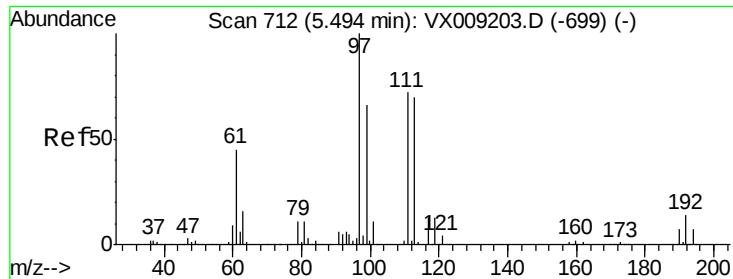


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

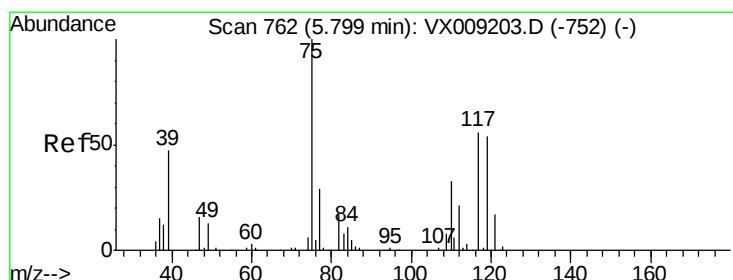
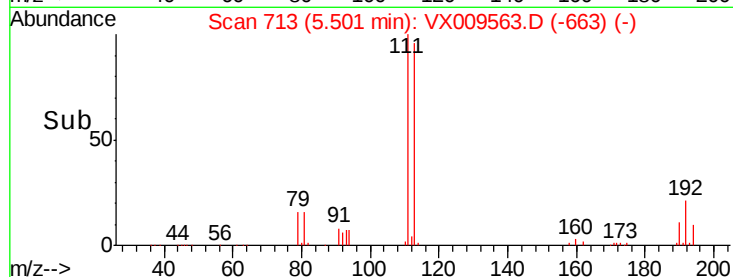
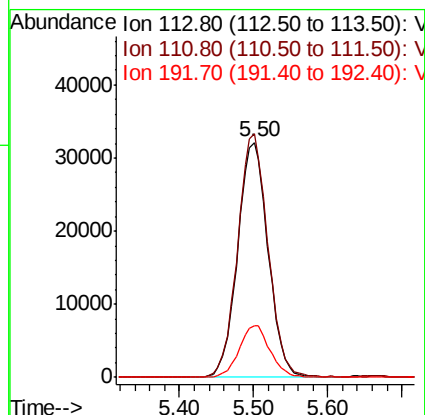
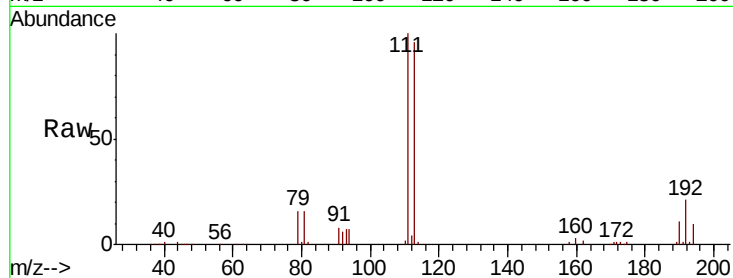




#35
 Dibromofluoromethane
 Concen: 47.602 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009563.D
 Acq: 14 May 2019 15:40

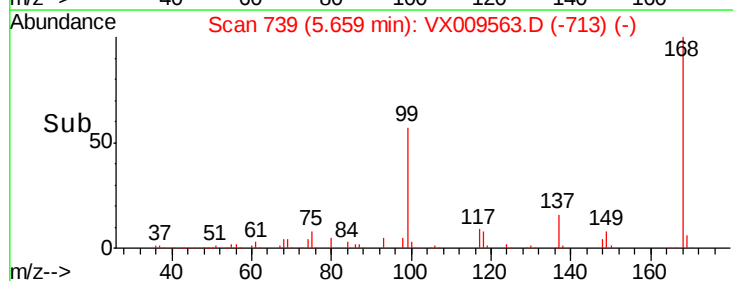
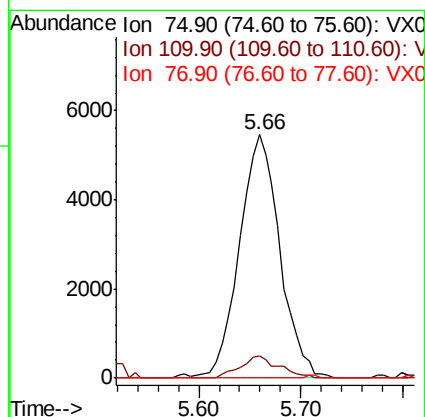
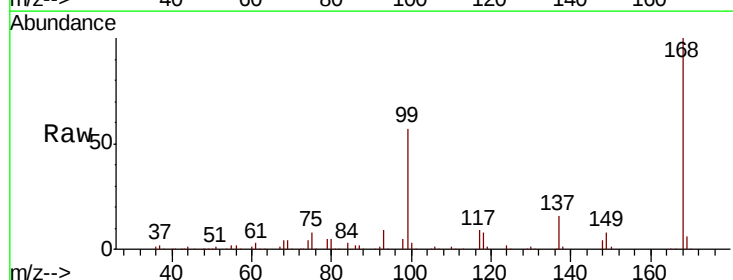
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-GROUNDWATER

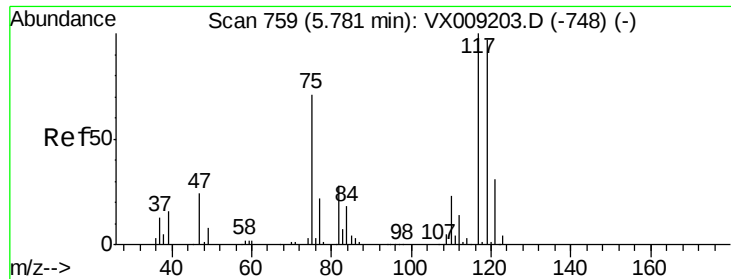
Tot Ion:113 Resp: 92371
 Ion Ratio Lower Upper
 113 100
 111 103.1 82.8 124.2
 192 22.2 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 5.217 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009563.D
 Acq: 14 May 2019 15:40

Tgt Ion: 75 Resp: 14966
 Ion Ratio Lower Upper
 75 100
 110 8.5 16.9 50.6#
 77 0.0 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 6.855 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009563.D

Acq: 14 May 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

TP-GROUNDWATER

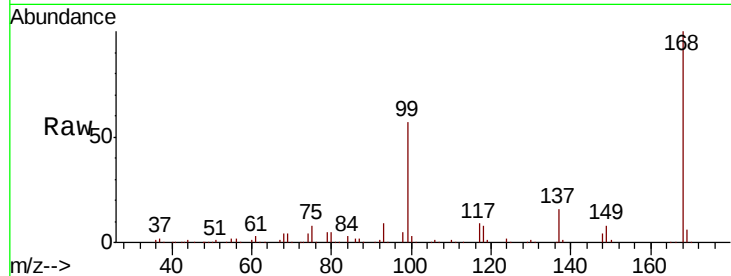
Tot Ion:117 Resp: 17865

Ion Ratio Lower Upper

117 100

119 6.0 77.5 116.3#

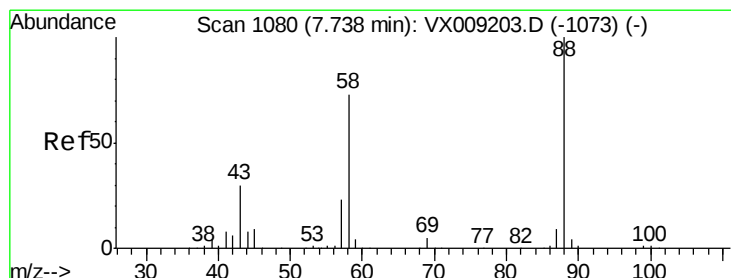
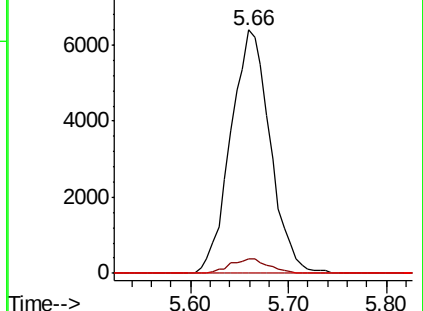
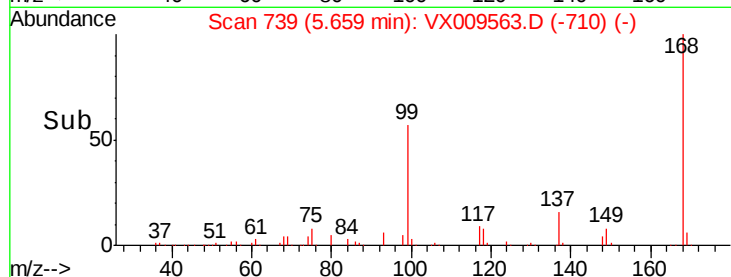
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 0.311 ug/l

RT: 7.73 min Scan# 1079

Delta R.T. -0.01 min

Lab File: VX009563.D

Acq: 14 May 2019 15:40

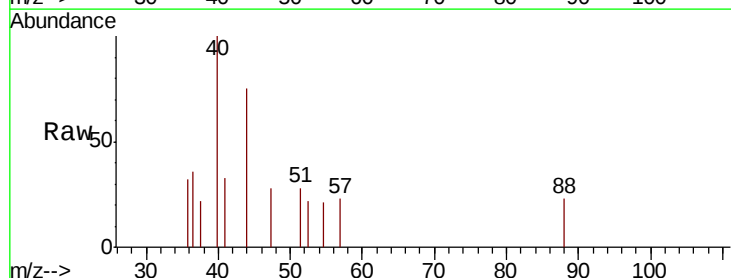
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 120.0 28.6 42.8#

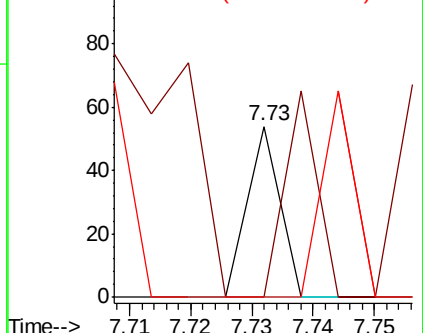
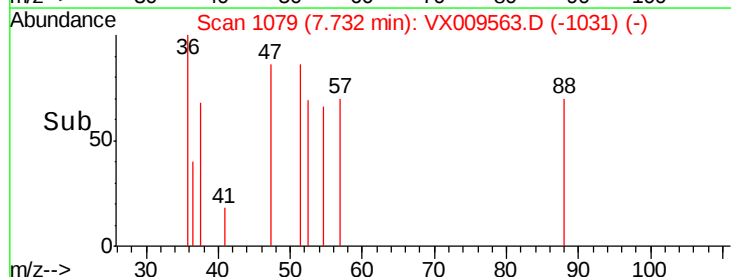
58 120.0 61.7 92.5#

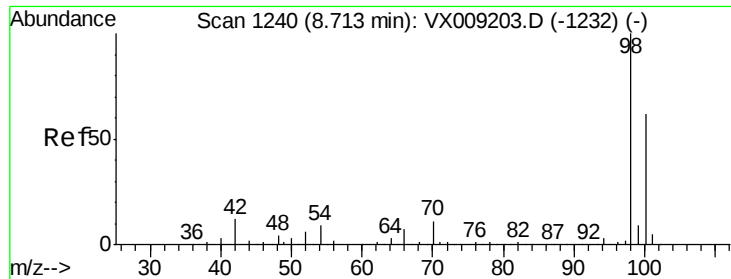


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.168 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009563.D

Acq: 14 May 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

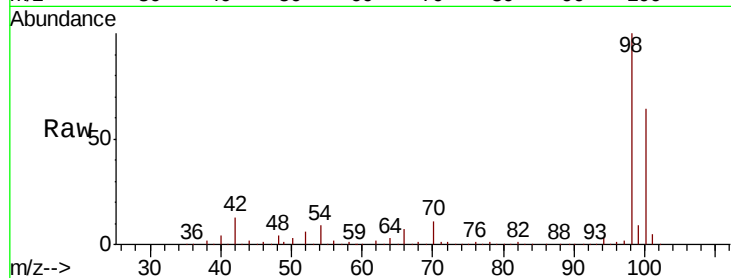
TP-GROUNDWATER

Tot Ion: 98 Resp: 385195

Ion Ratio Lower Upper

98 100

100 63.9 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

300000

250000

200000

150000

100000

50000

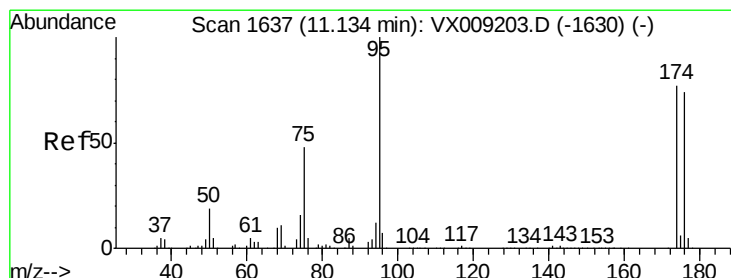
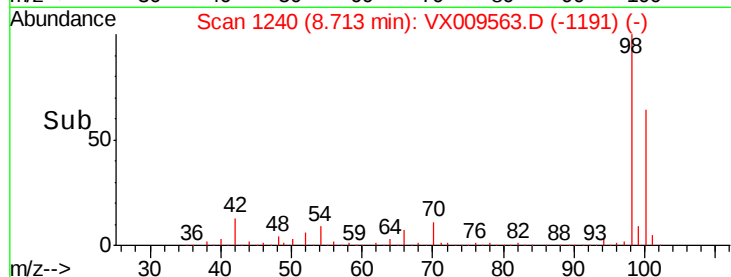
0

8.60

8.70

8.80

Time-->



#62

4-Bromofluorobenzene

Concen: 43.960 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009563.D

Acq: 14 May 2019 15:40

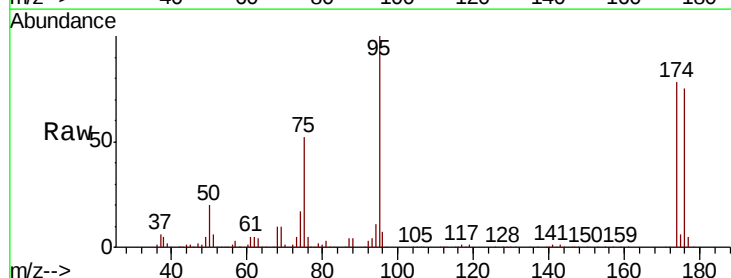
Tgt Ion: 95 Resp: 125139

Ion Ratio Lower Upper

95 100

174 81.7 0.0 161.6

176 79.6 0.0 159.2



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

100000

50000

0

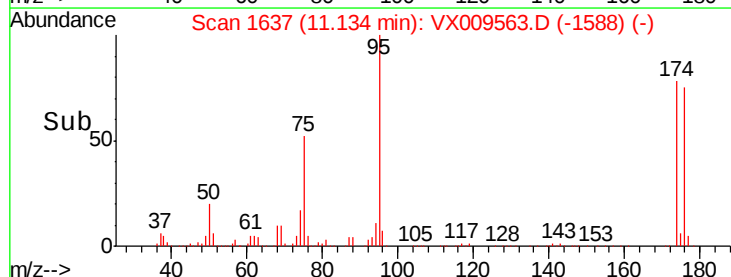
11.05

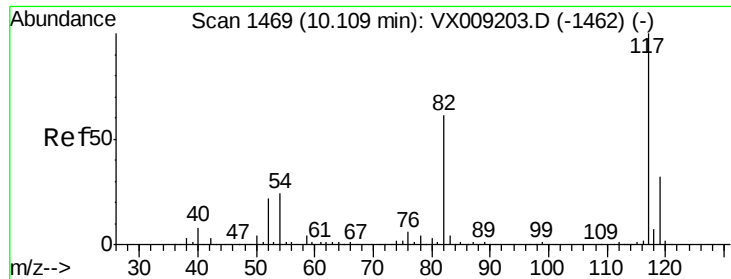
11.10

11.15

11.20

Time-->

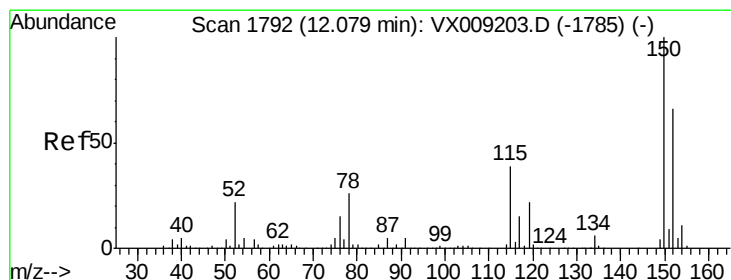
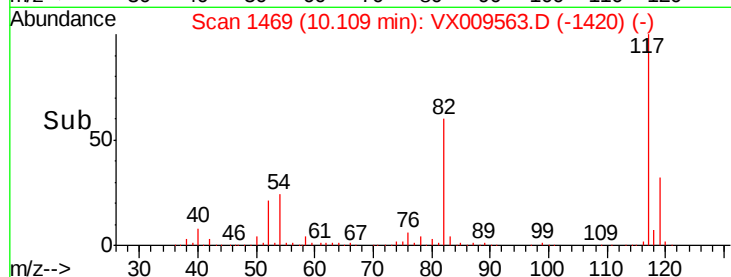
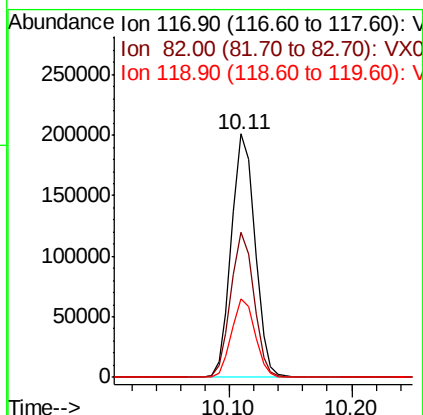
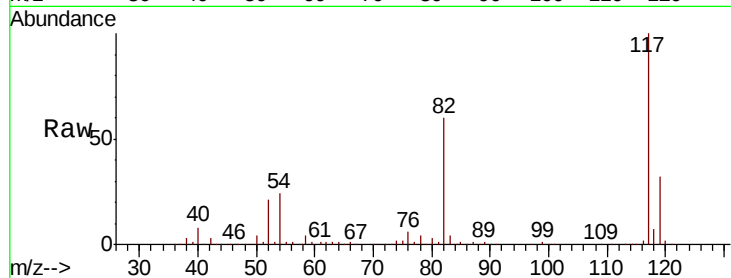




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009563.D
Acq: 14 May 2019 15:40

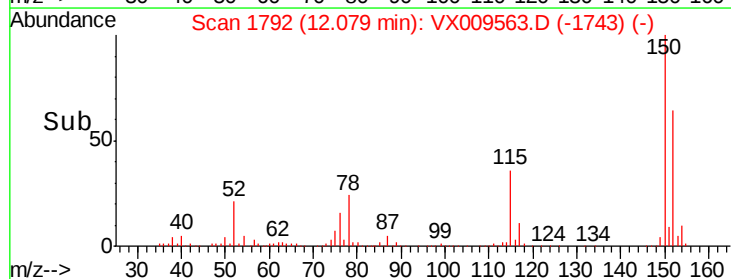
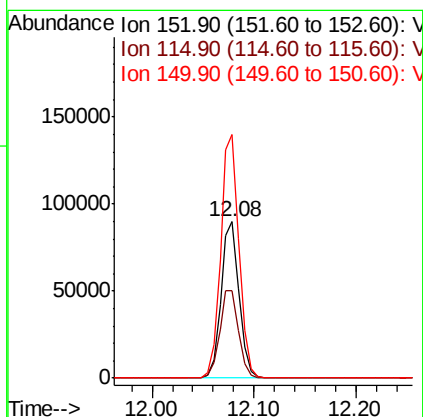
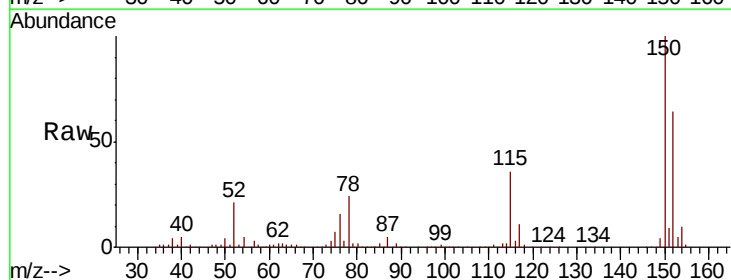
Instrument :
MSVOA_X
ClientSampleId :
TP-GROUNDWATER

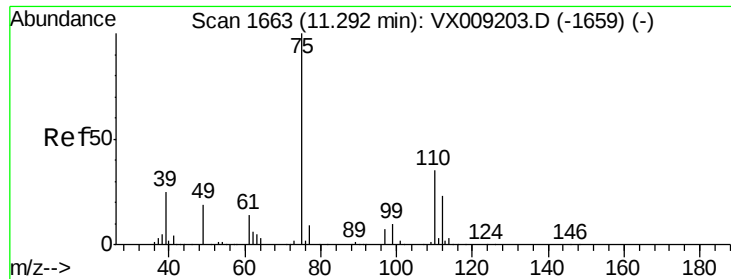
Tot Ion:117 Resp: 268296
Ion Ratio Lower Upper
117 100
82 59.7 48.8 73.2
119 32.3 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX009563.D
Acq: 14 May 2019 15:40

Tgt Ion:152 Resp: 110371
Ion Ratio Lower Upper
152 100
115 58.7 41.2 123.6
150 158.9 0.0 346.4





#76

1,2,3-Trichloropropane

Concen: 25.180 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009563.D

Acq: 14 May 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

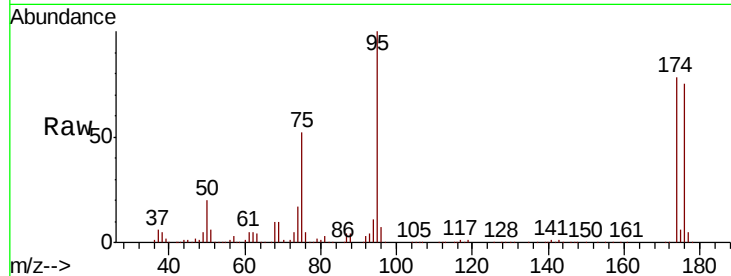
TP-GROUNDWATER

Tot Ion: 75 Resp: 64466

Ion Ratio Lower Upper

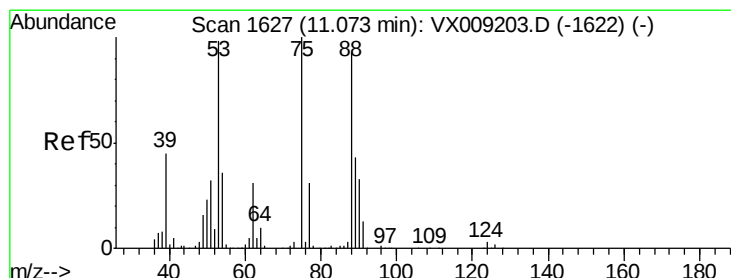
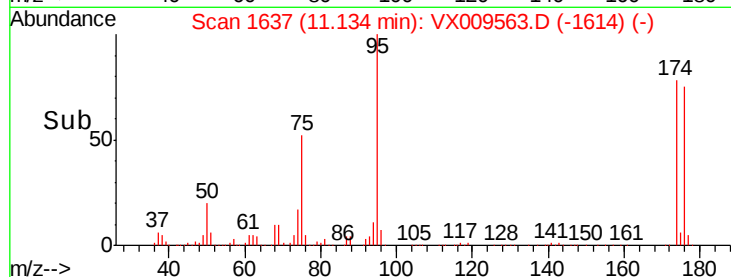
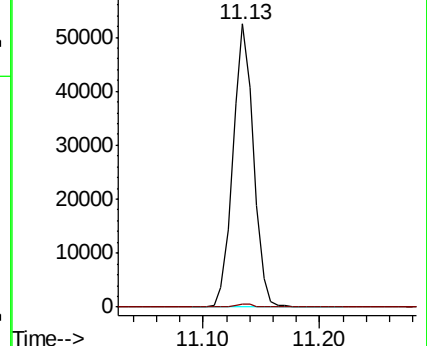
75 100

77 1.2 22.1 66.1#



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: 64.426 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009563.D

Acq: 14 May 2019 15:40

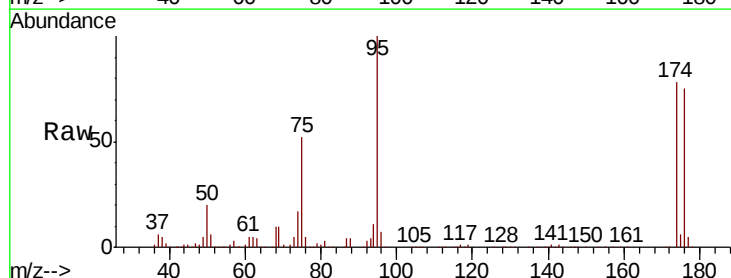
Tgt Ion: 75 Resp: 64466

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.0 34.7 52.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

