

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122118\
 Data File : VX006755.D
 Acq On : 22 Dec 2018 06:12
 Operator : JC/MD
 Sample : J6503-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-GROUNDWATER-1-1

Quant Time: Dec 22 09:35:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

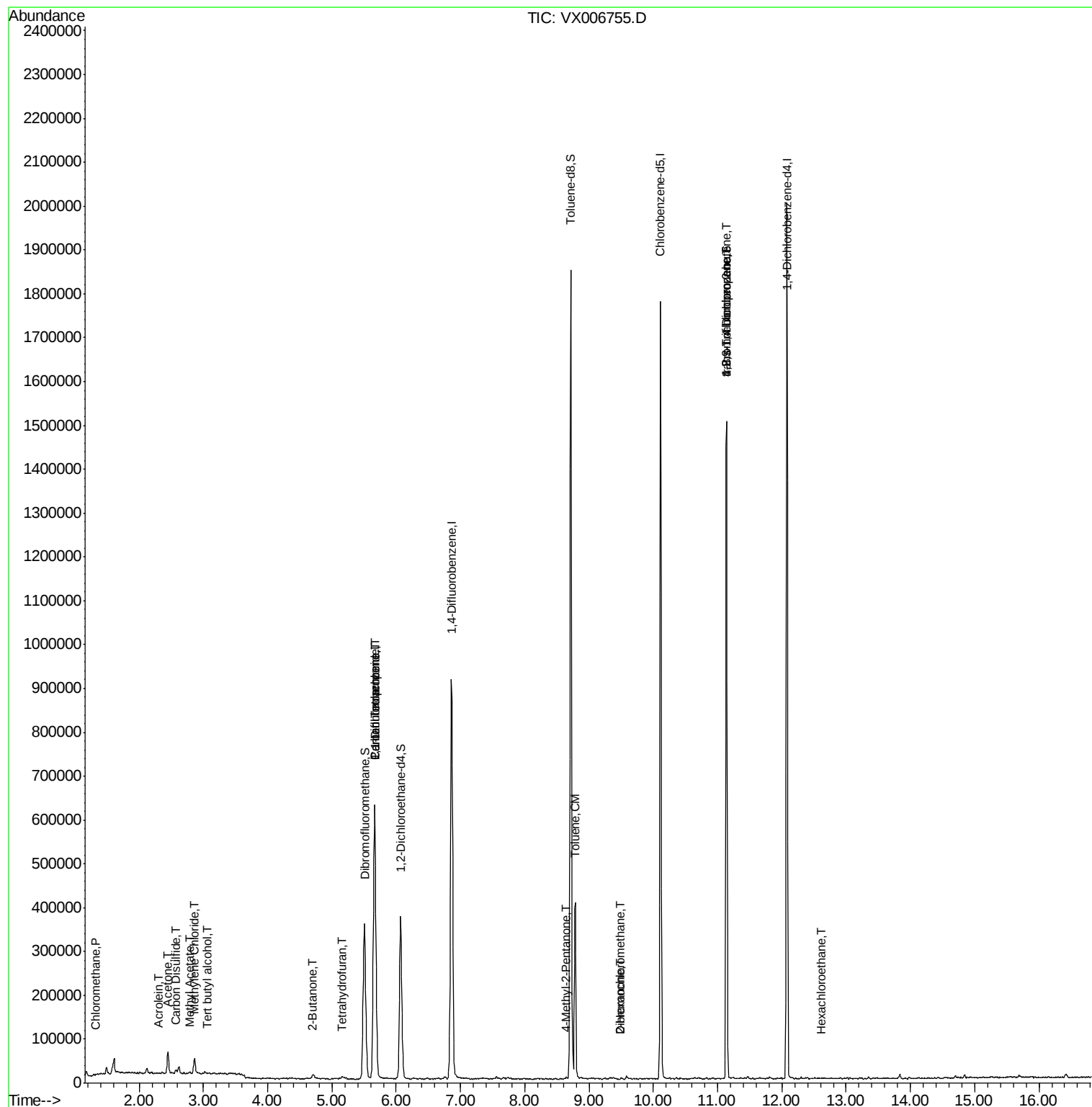
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	631014	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	986150	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	882807	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	416668	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	344171	50.61	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.22%	
35) Dibromofluoromethane	5.51	113	299396	48.01	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.02%	
50) Toluene-d8	8.71	98	1152401	49.02	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.04%	
62) 4-Bromofluorobenzene	11.14	95	403248	46.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.66%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.33	50	2331	0.375	ug/l #	59
5) Bromomethane	1.65	94	419	Below Cal		90
11) Tert butyl alcohol	3.07	59	1226	0.808	ug/l #	72
13) Acrolein	2.30	56	516	0.504	ug/l #	13
16) Acetone	2.45	43	51617	16.520	ug/l	98
17) Carbon Disulfide	2.57	76	12801	0.858	ug/l #	95
18) Methyl Acetate	2.79	43	5602	0.610	ug/l	91
20) Methylene Chloride	2.86	84	16601	2.569	ug/l	90
25) 2-Butanone	4.70	43	16513	3.757	ug/l	94
28) Bromochloromethane	5.02	49	194	Below Cal	#	4
29) Tetrahydrofuran	5.15	42	5041	1.741	ug/l #	75
36) 1,1-Dichloropropene	5.67	75	40981	5.018	ug/l #	49
38) Carbon Tetrachloride	5.67	117	58202	7.332	ug/l #	14
49) 1,4-Dioxane	7.76	88	177	Below Cal	#	27
51) 4-Methyl-2-Pentanone	8.65	43	3246	0.394	ug/l	97
52) Toluene	8.79	92	157066	9.793	ug/l	99
59) 2-Hexanone	9.50	43	1475	0.234	ug/l	94
60) Dibromochloromethane	9.48	129	36	2.329	ug/l	90
76) 1,2,3-Trichloropropane	11.13	75	187567	24.223	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	187567	71.709	ug/l #	10
90) Hexachloroethane	12.60	117	25	3.299	ug/l	94

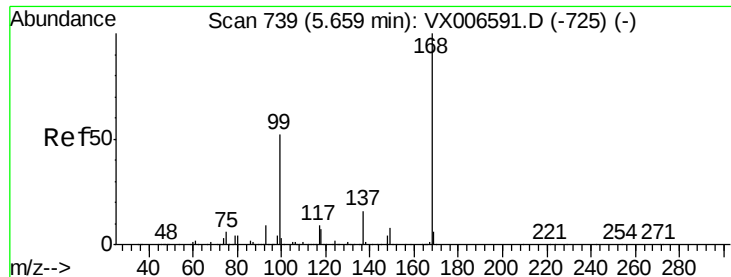
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 22 09:35:09 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006755.D

Acq: 22 Dec 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

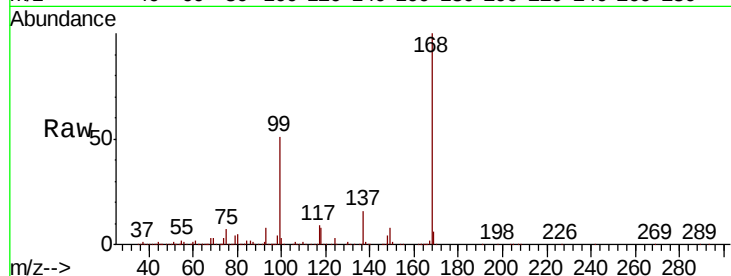
TP-GROUNDWATER-1-1

Tgt Ion:168 Resp: 631014

Ion Ratio Lower Upper

168 100

99 50.7 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

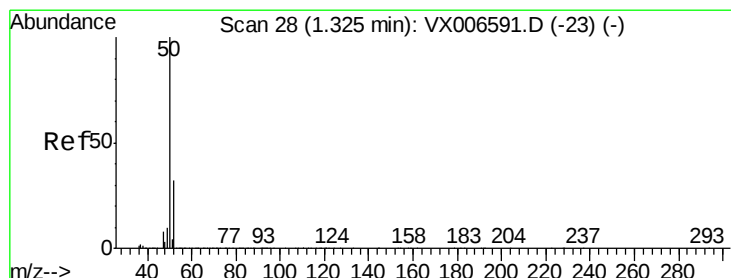
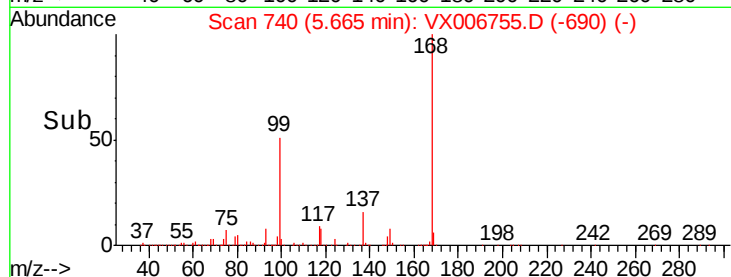
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.375 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX006755.D

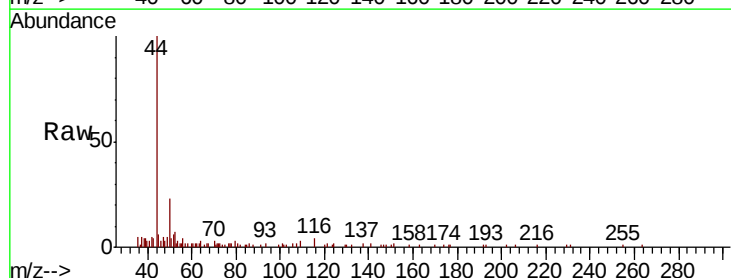
Acq: 22 Dec 2018 06:12

Tgt Ion: 50 Resp: 2331

Ion Ratio Lower Upper

50 100

52 54.5 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

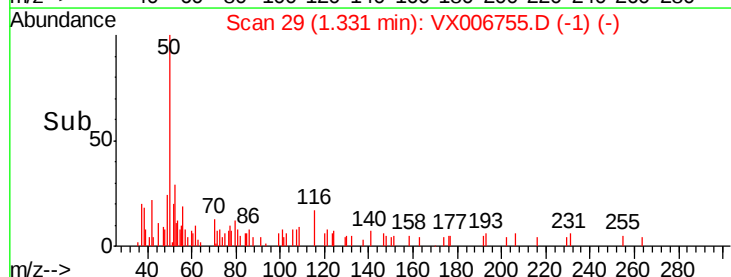
1500

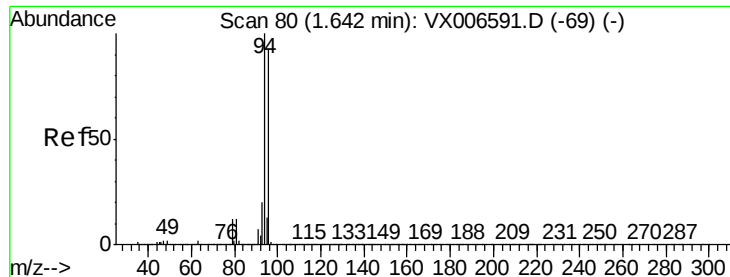
1000

500

0

Time--> 1.25 1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006755.D

Acq: 22 Dec 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

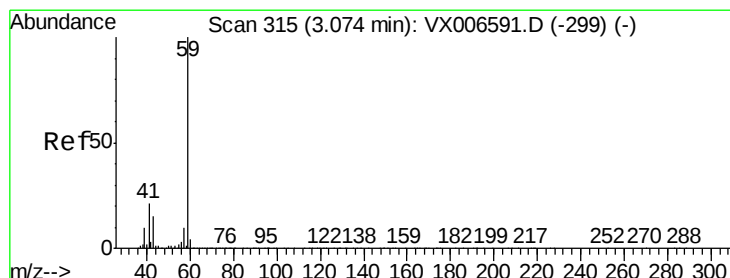
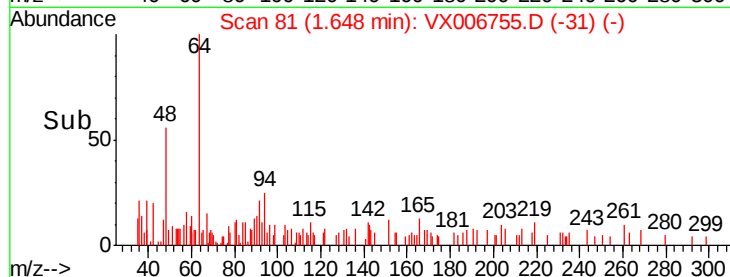
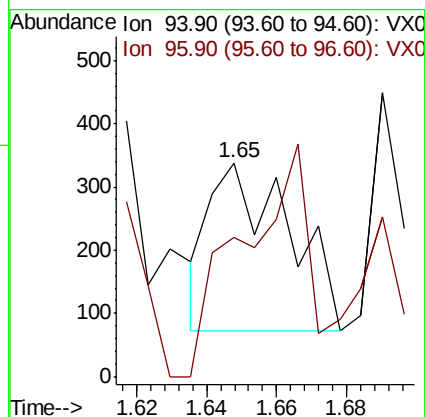
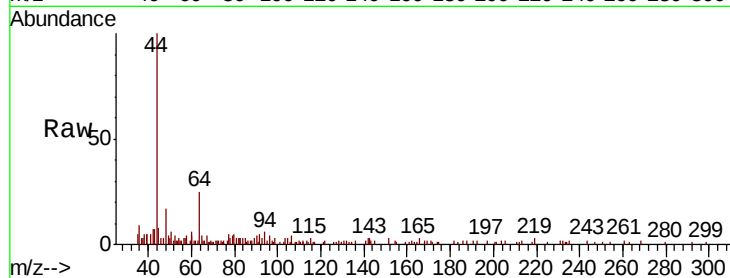
TP-GROUNDWATER-1-1

Tgt Ion: 94 Resp: 419

Ion Ratio Lower Upper

94 100

96 82.7 73.4 110.2



#11

Tert butyl alcohol

Concen: 0.808 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX006755.D

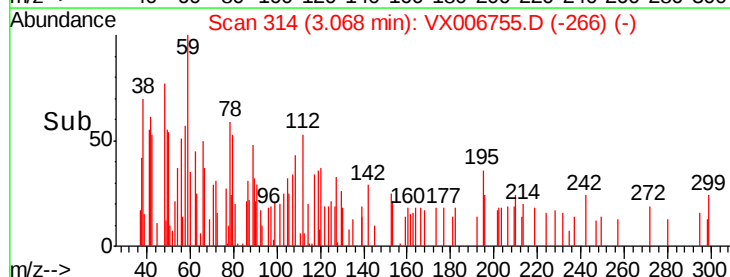
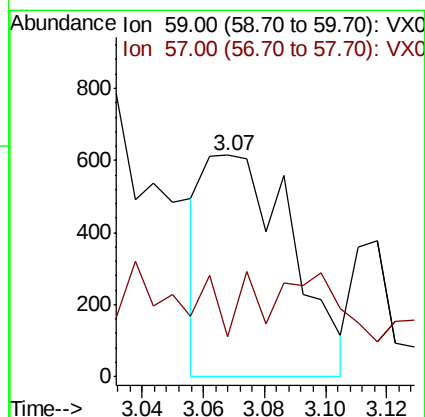
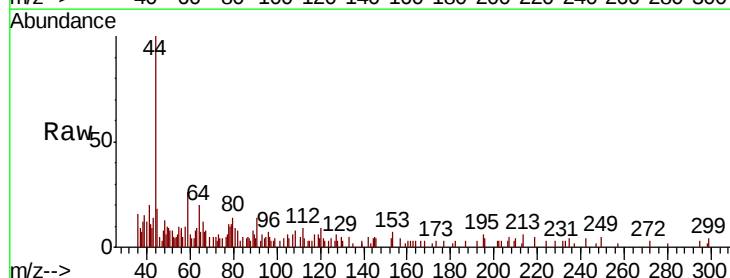
Acq: 22 Dec 2018 06:12

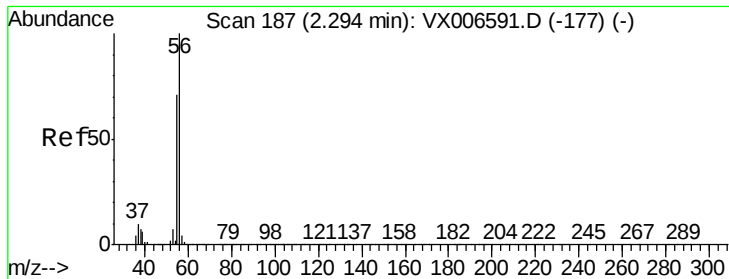
Tgt Ion: 59 Resp: 1226

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#

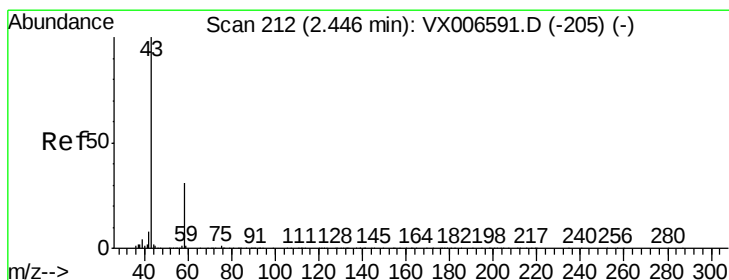
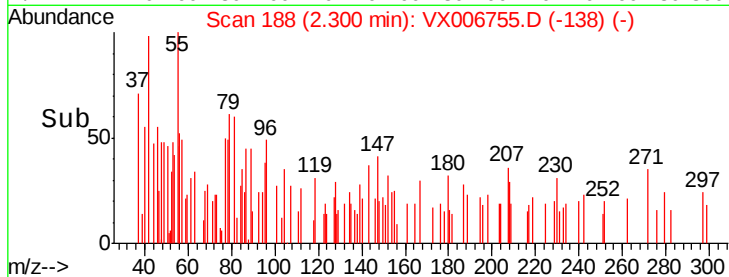
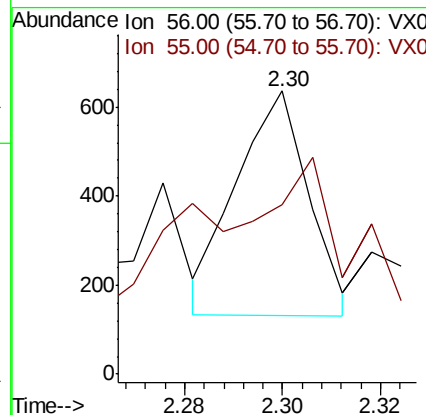
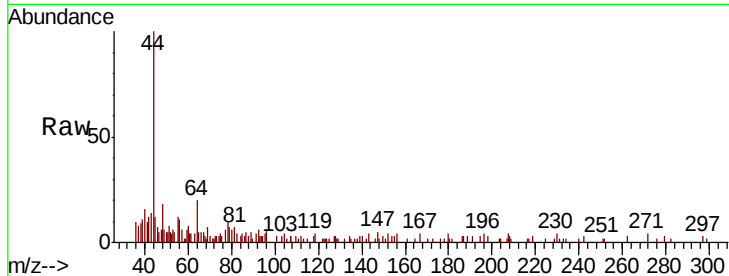




#13
Acrolein
Concen: 0.504 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX006755.D
Acq: 22 Dec 2018 06:12

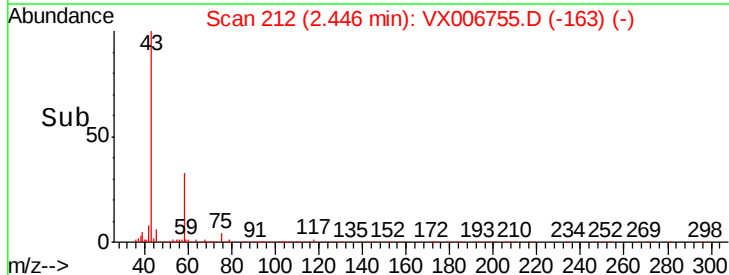
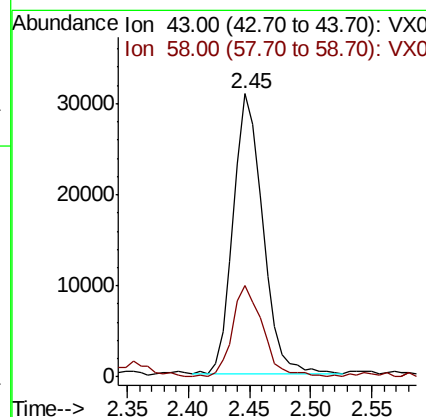
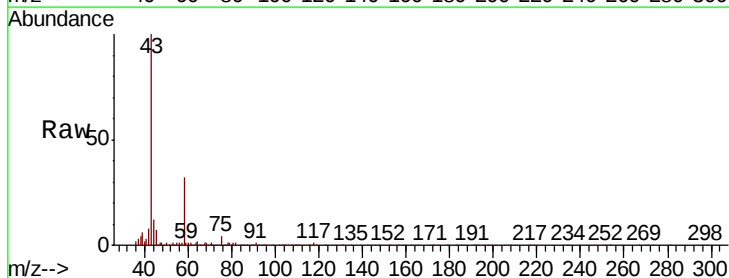
Instrument :
MSVOA_X
ClientSampleId :
TP-GROUNDWATER-1-1

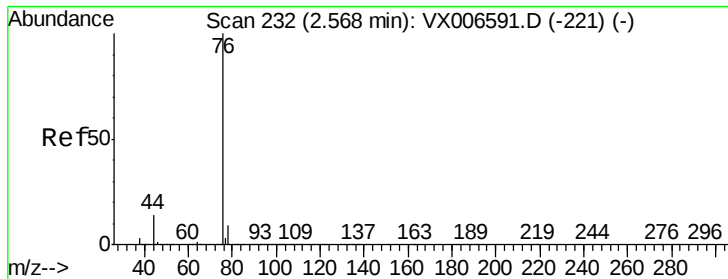
Tgt Ion: 56 Resp: 516
Ion Ratio Lower Upper
56 100
55 0.0 58.2 87.4#



#16
Acetone
Concen: 16.520 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX006755.D
Acq: 22 Dec 2018 06:12

Tgt Ion: 43 Resp: 51617
Ion Ratio Lower Upper
43 100
58 32.4 25.0 37.6





#17

Carbon Disulfide

Concen: 0.858 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX006755.D

Acq: 22 Dec 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

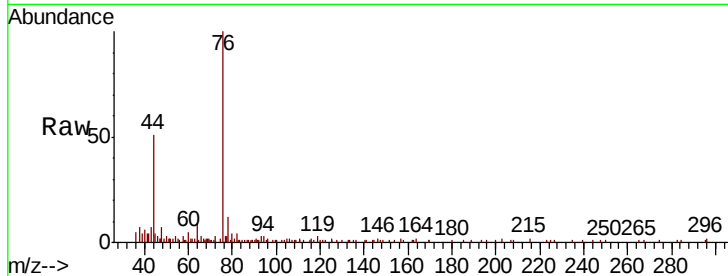
TP-GROUNDWATER-1-1

Tgt Ion: 76 Resp: 12801

Ion Ratio Lower Upper

76 100

78 10.7 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

8000

6000

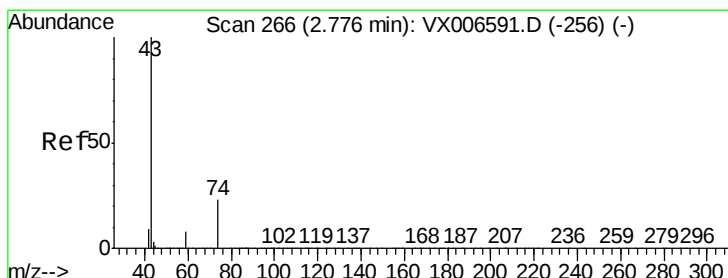
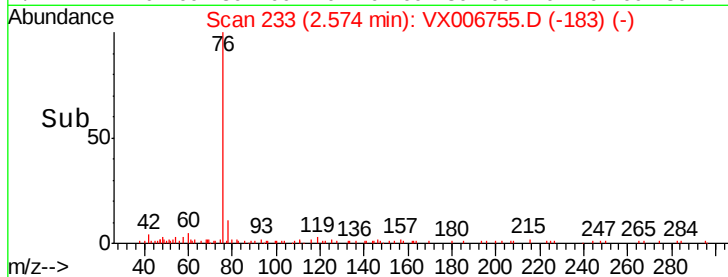
4000

2000

0

Time-->

2.50 2.55 2.60 2.65



#18

Methyl Acetate

Concen: 0.610 ug/l

RT: 2.79 min Scan# 268

Delta R.T. 0.01 min

Lab File: VX006755.D

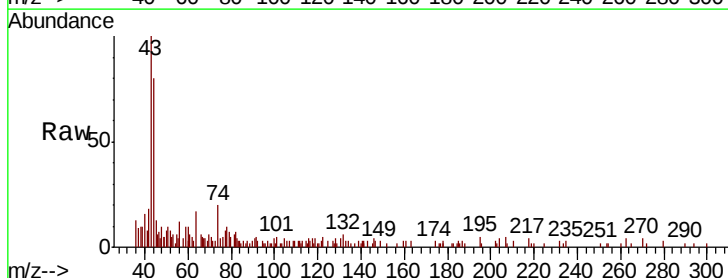
Acq: 22 Dec 2018 06:12

Tgt Ion: 43 Resp: 5602

Ion Ratio Lower Upper

43 100

74 27.6 18.6 28.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.79

3000

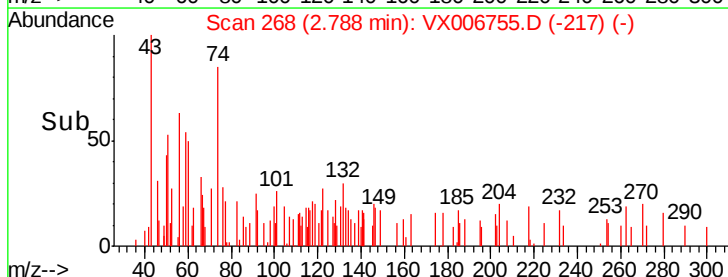
2000

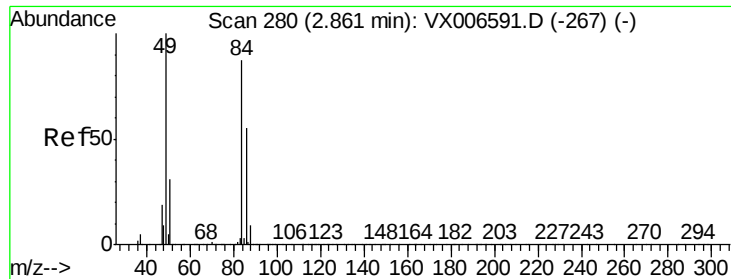
1000

0

Time-->

2.70 2.75 2.80 2.85

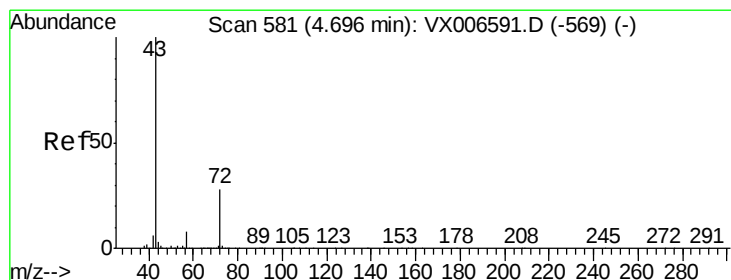
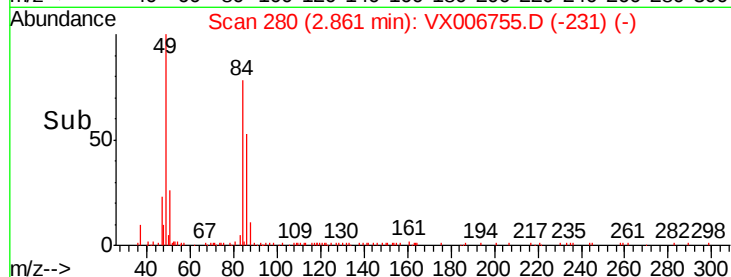
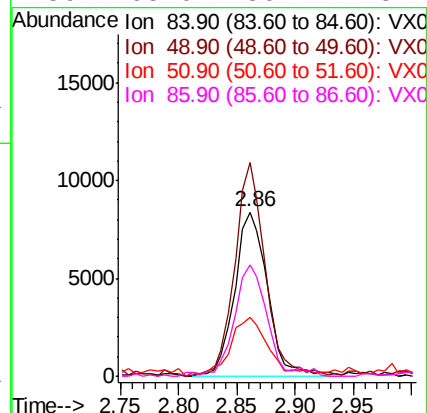
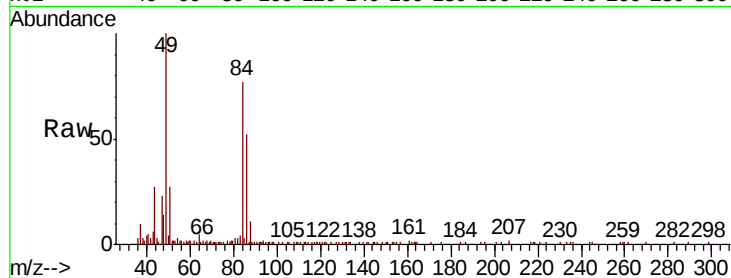




#20
Methylene Chloride
Concen: 2.569 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX006755.D
Acq: 22 Dec 2018 06:12

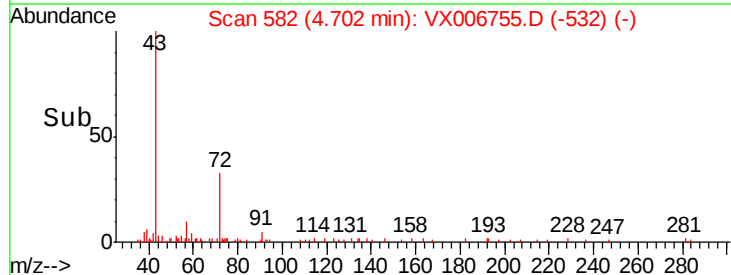
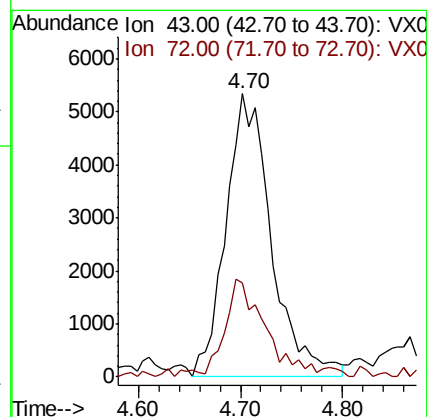
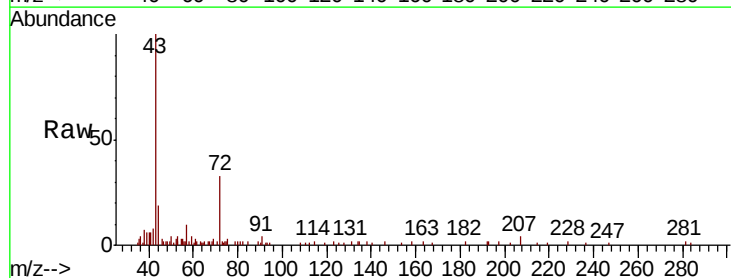
Instrument :
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TP-GROUNDWATER-1-1

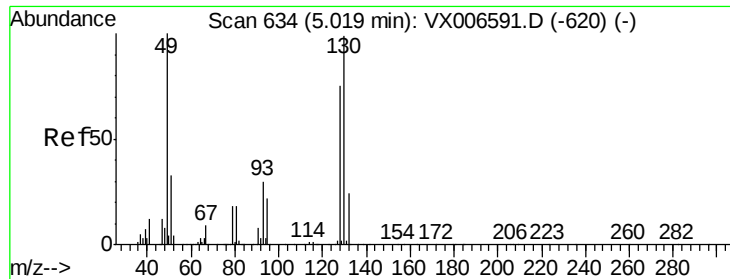
Tgt Ion:	84	Resp:	16601
Ion	Ratio	Lower	Upper
84	100		
49	129.6	91.8	137.6
51	33.3	28.5	42.7
86	68.0	50.2	75.2



#25
2-Butanone
Concen: 3.757 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.01 min
Lab File: VX006755.D
Acq: 22 Dec 2018 06:12

Tgt Ion:	43	Resp:	16513
Ion	Ratio	Lower	Upper
43	100		
72	31.1	22.4	33.6





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

Delta R.T. -0.00 min

Lab File: VX006755.D

Acq: 22 Dec 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

TP-GROUNDWATER-1-1

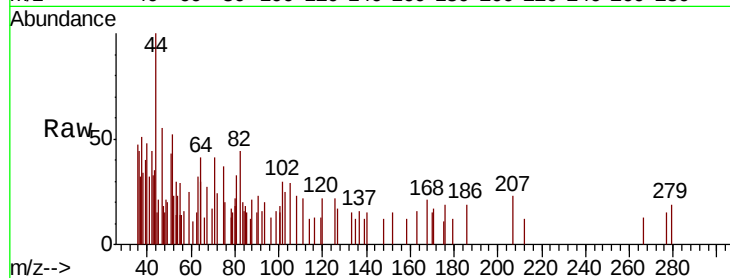
Tgt Ion: 49 Resp: 194

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.4

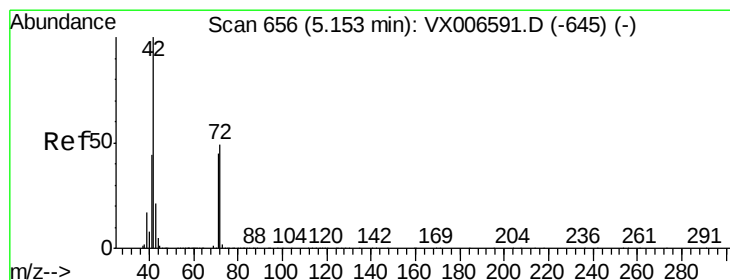
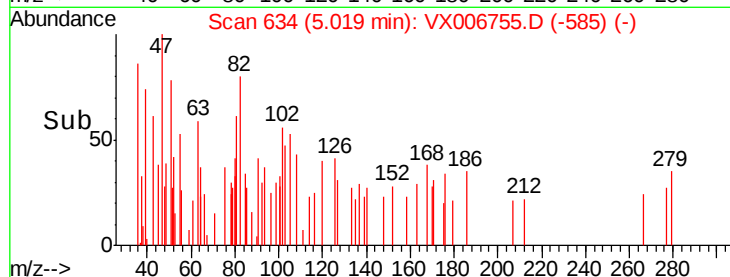
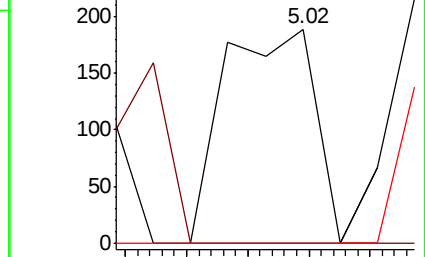
130 0.0 77.7 116.5#



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



#29

Tetrahydrofuran

Concen: 1.741 ug/l

RT: 5.15 min Scan# 656

Delta R.T. -0.00 min

Lab File: VX006755.D

Acq: 22 Dec 2018 06:12

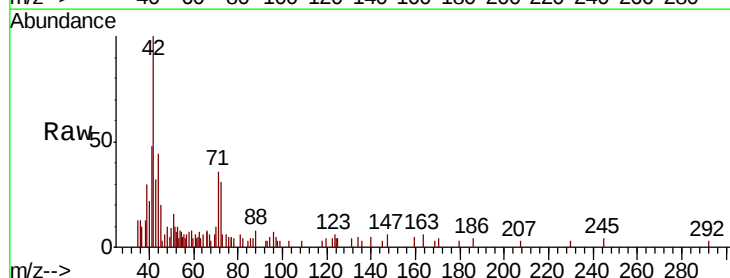
Tgt Ion: 42 Resp: 5041

Ion Ratio Lower Upper

42 100

72 25.5 38.9 58.3#

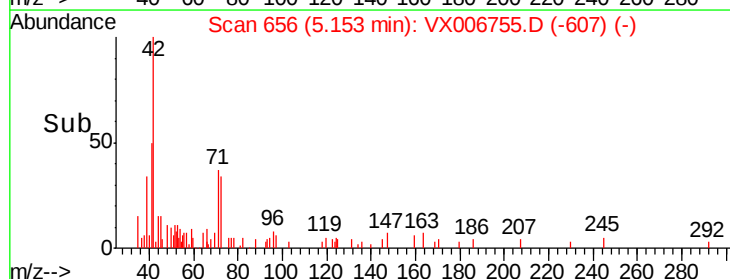
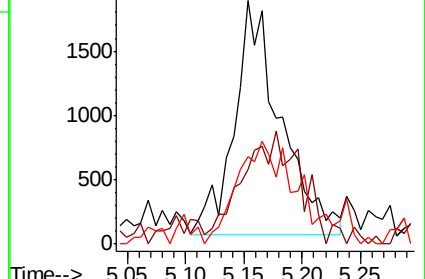
71 55.8 36.2 54.4#

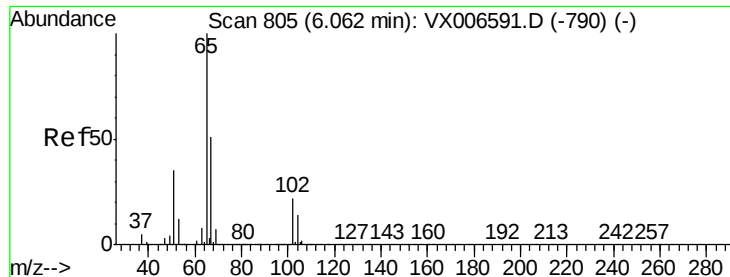


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 50.607 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006755.D

Acq: 22 Dec 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

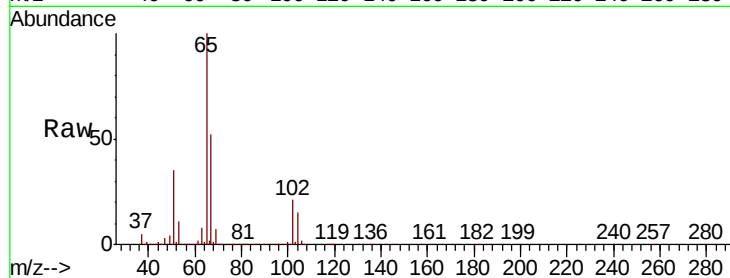
TP-GROUNDWATER-1-1

Tgt Ion: 65 Resp: 344171

Ion Ratio Lower Upper

65 100

67 53.0 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

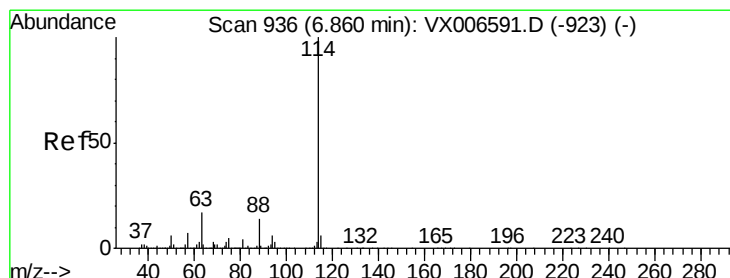
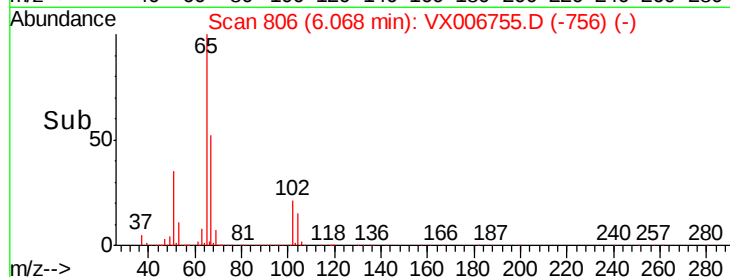
150000

100000

50000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006755.D

Acq: 22 Dec 2018 06:12

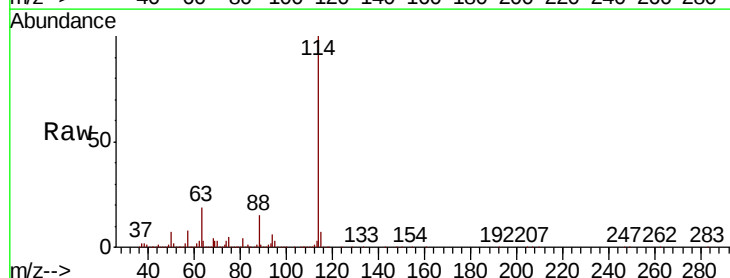
Tgt Ion: 114 Resp: 986150

Ion Ratio Lower Upper

114 100

63 18.6 0.0 34.8

88 14.6 0.0 28.8



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

6.86

500000

400000

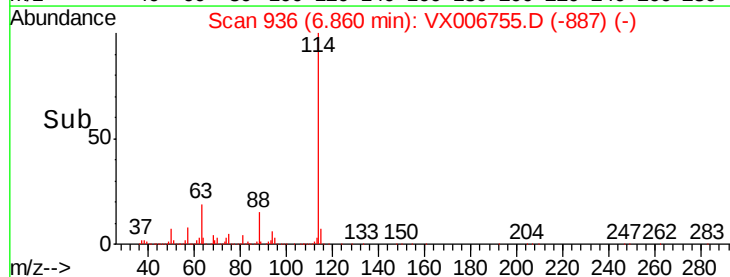
300000

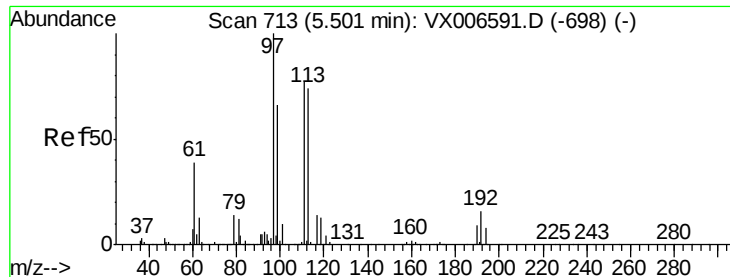
200000

100000

0

Time--> 6.70 6.80 6.90 7.00

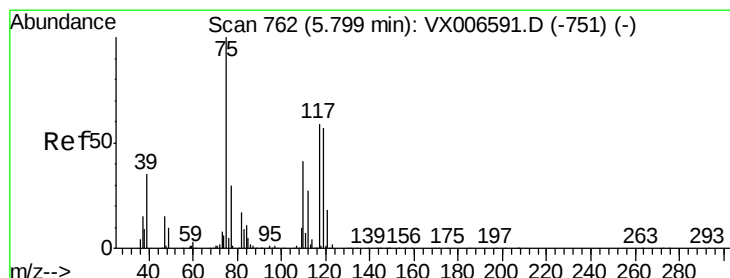
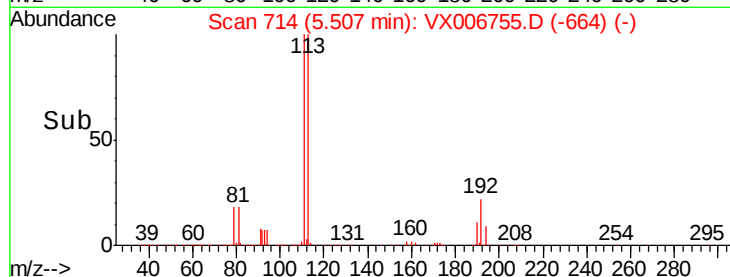
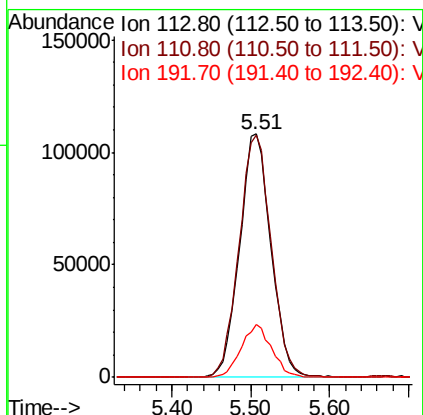
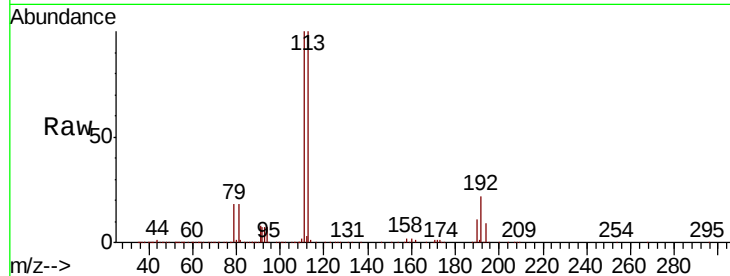




#35
 Dibromofluoromethane
 Concen: 48.009 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX006755.D
 Acq: 22 Dec 2018 06:12

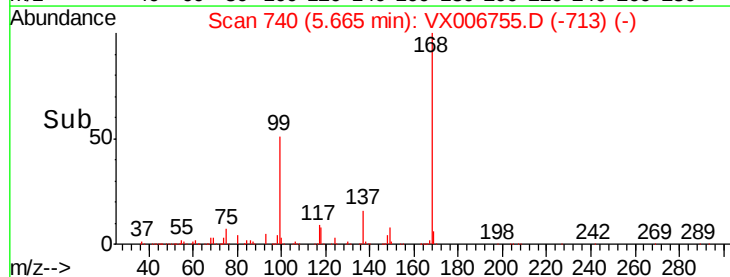
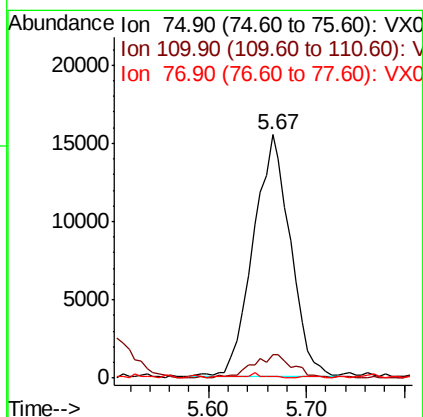
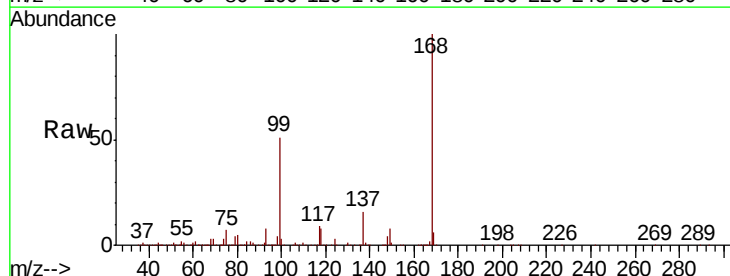
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-GROUNDWATER-1-1

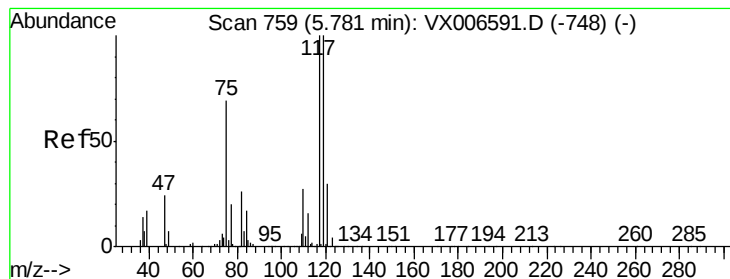
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.6	122.4
192	21.1	16.7	25.1



#36
 1,1-Dichloropropene
 Concen: 5.018 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX006755.D
 Acq: 22 Dec 2018 06:12

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.7	20.2	60.5#
77	0.8	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 7.332 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006755.D

Acq: 22 Dec 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

TP-GROUNDWATER-1-1

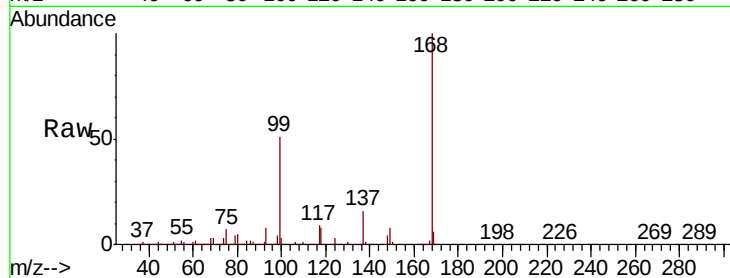
Tgt Ion:117 Resp: 58202

Ion Ratio Lower Upper

117 100

119 4.0 79.4 119.2#

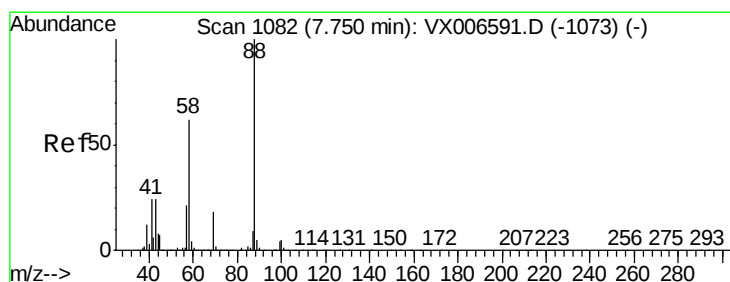
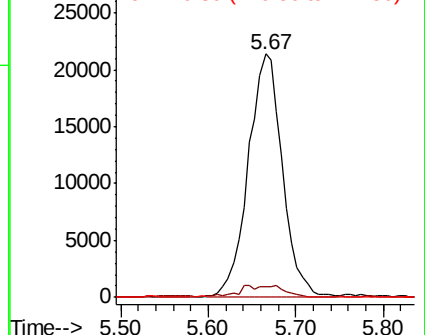
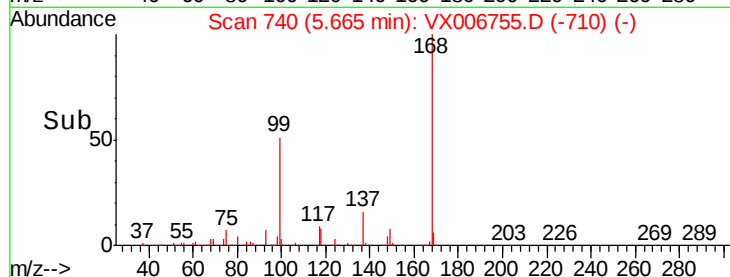
121 0.0 24.0 36.0#



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: Below Cal

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX006755.D

Acq: 22 Dec 2018 06:12

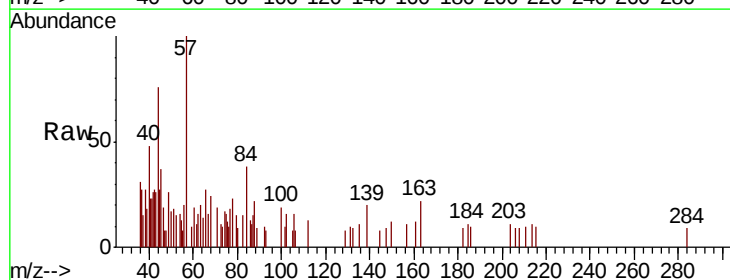
Tgt Ion: 88 Resp: 177

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

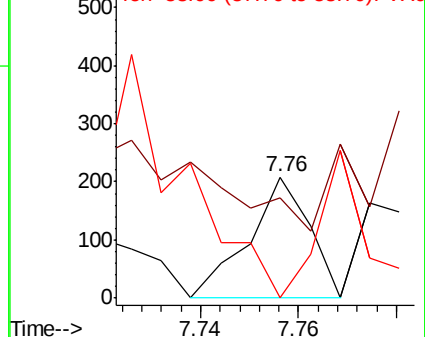
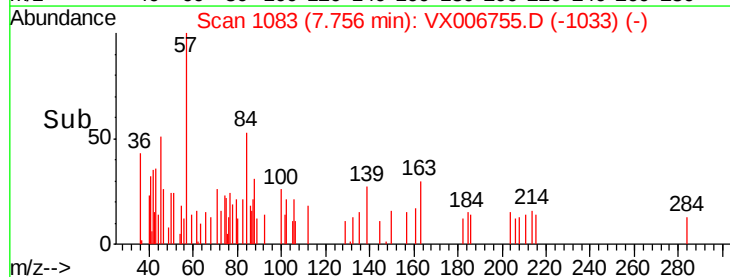
58 0.0 51.0 76.4#

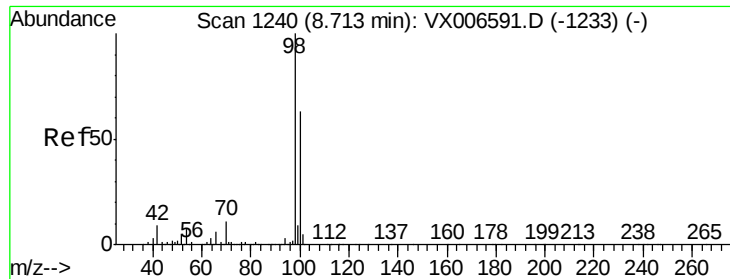


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.016 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006755.D

Acq: 22 Dec 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

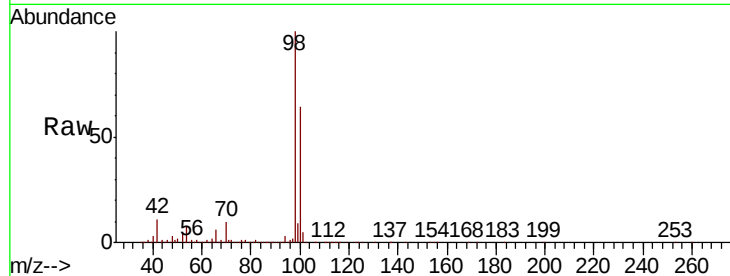
TP-GROUNDWATER-1-1

Tgt Ion: 98 Resp: 1152401

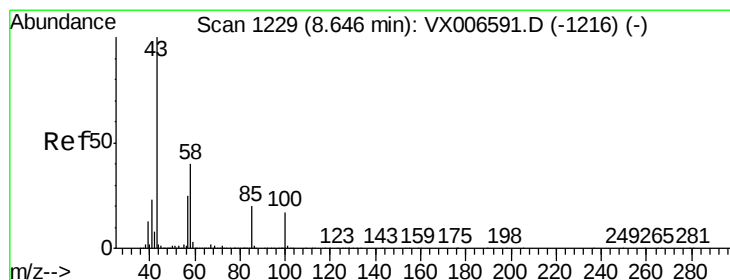
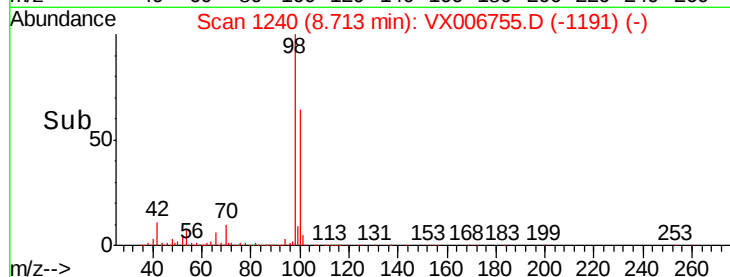
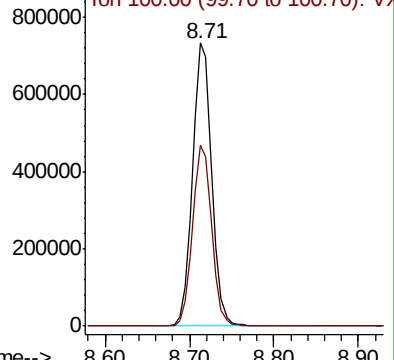
Ion Ratio Lower Upper

98 100

100 64.0 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX006755.D (-1191) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.394 ug/l

RT: 8.65 min Scan# 1229

Delta R.T. -0.00 min

Lab File: VX006755.D

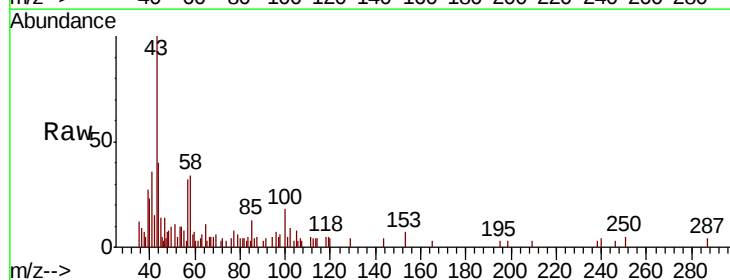
Acq: 22 Dec 2018 06:12

Tgt Ion: 43 Resp: 3246

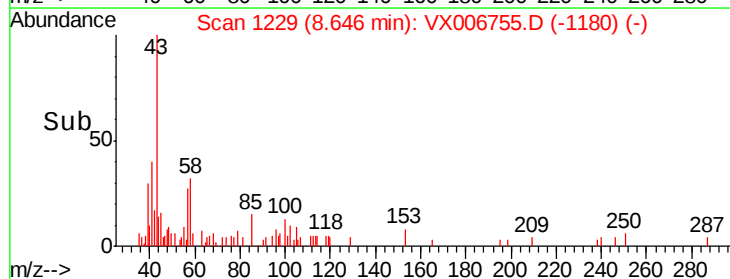
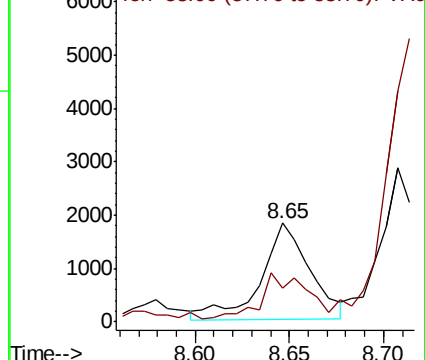
Ion Ratio Lower Upper

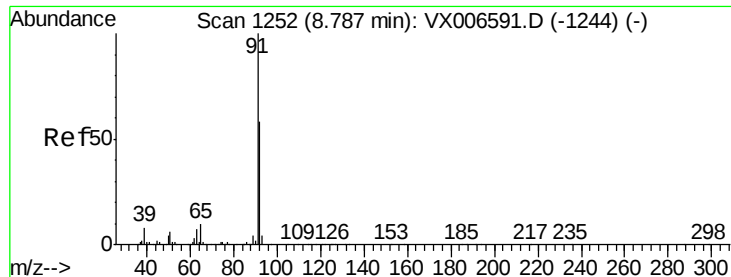
43 100

58 41.7 31.8 47.6



Abundance Ion 43.00 (42.70 to 43.70): VX006755.D (-1180) (-)





#52

Toluene

Concen: 9.793 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX006755.D

Acq: 22 Dec 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

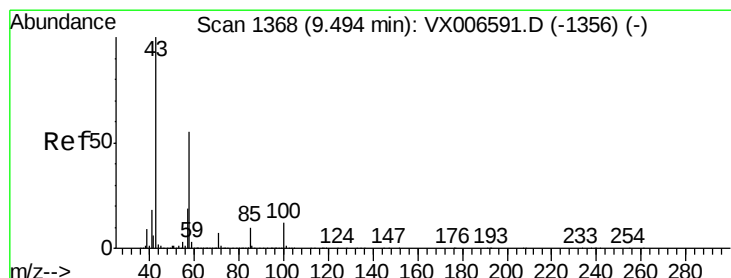
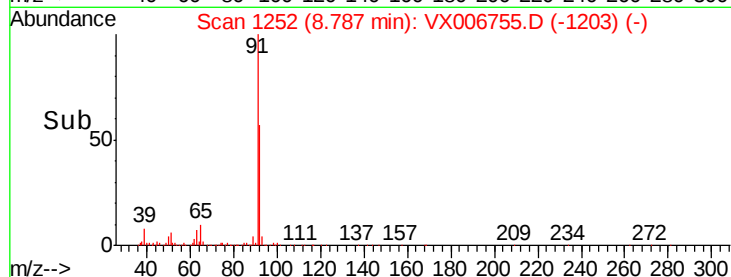
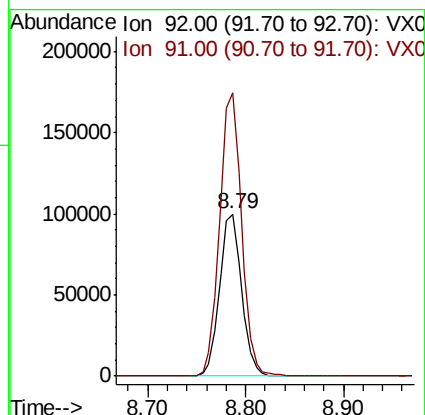
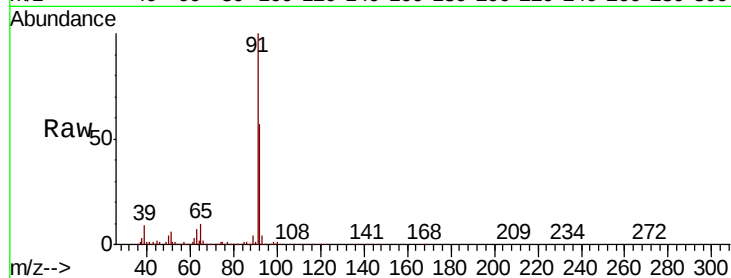
TP-GROUNDWATER-1-1

Tgt Ion: 92 Resp: 157066

Ion Ratio Lower Upper

92 100

91 174.0 137.6 206.4



#59

2-Hexanone

Concen: 0.234 ug/l

RT: 9.50 min Scan# 1369

Delta R.T. 0.01 min

Lab File: VX006755.D

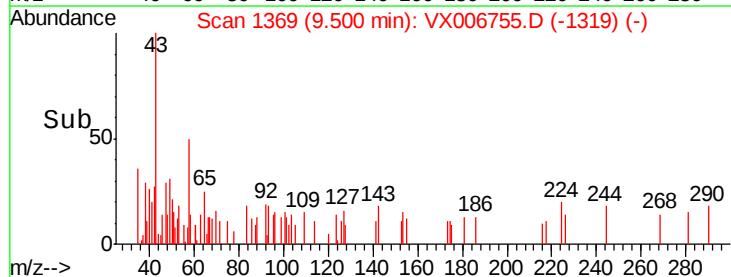
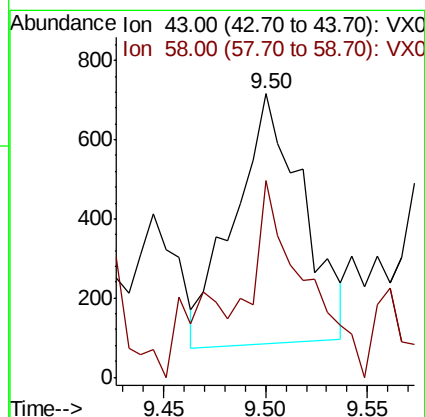
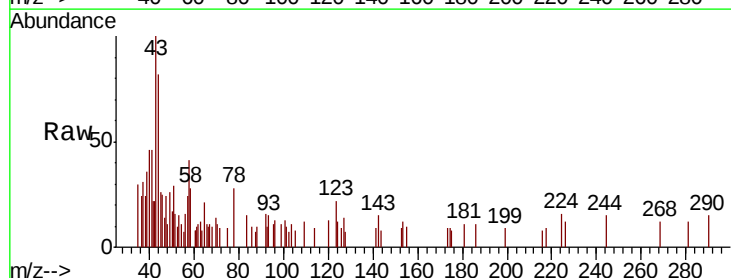
Acq: 22 Dec 2018 06:12

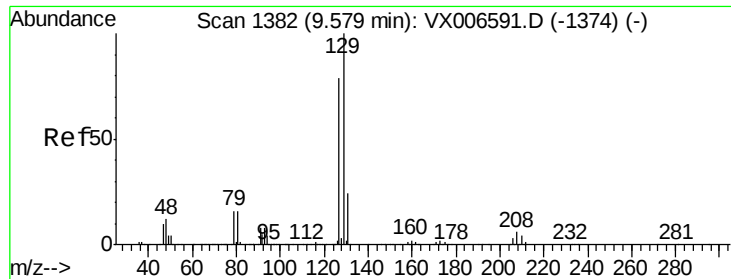
Tgt Ion: 43 Resp: 1475

Ion Ratio Lower Upper

43 100

58 59.8 27.7 83.1





#60

Dibromochloromethane

Concen: 2.329 ug/l

RT: 9.48 min Scan# 1366

Delta R.T. -0.10 min

Lab File: VX006755.D

Acq: 22 Dec 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

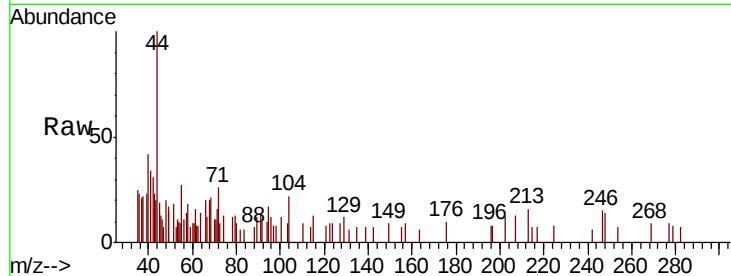
TP-GROUNDWATER-1-1

Tgt Ion:129 Resp: 36

Ion Ratio Lower Upper

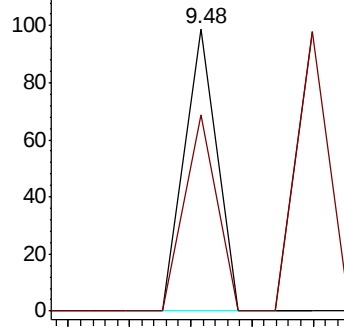
129 100

127 69.4 39.3 117.8

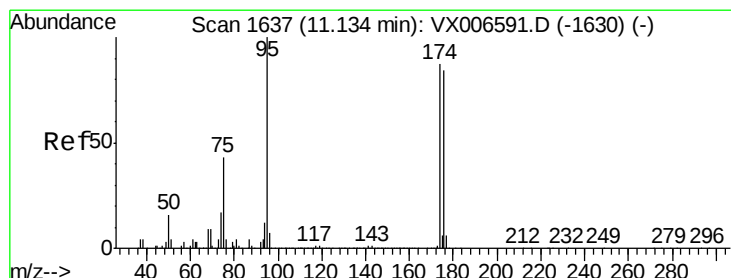
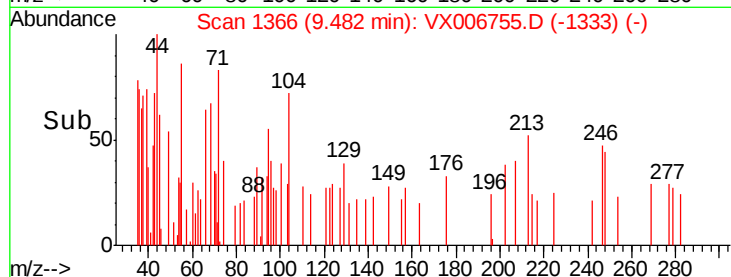


Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



Time-->



#62

4-Bromofluorobenzene

Concen: 46.831 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.01 min

Lab File: VX006755.D

Acq: 22 Dec 2018 06:12

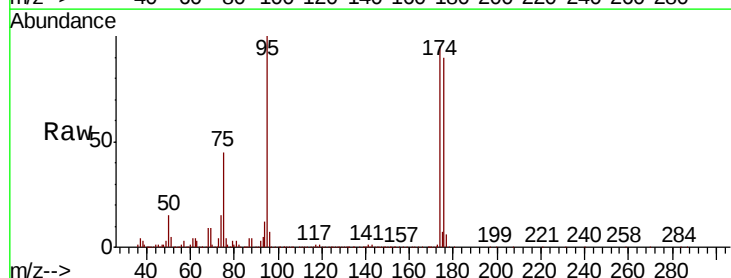
Tgt Ion: 95 Resp: 403248

Ion Ratio Lower Upper

95 100

174 88.7 0.0 182.2

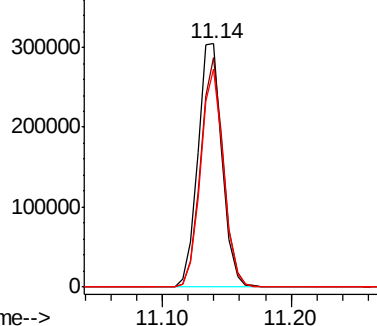
176 84.6 0.0 178.8



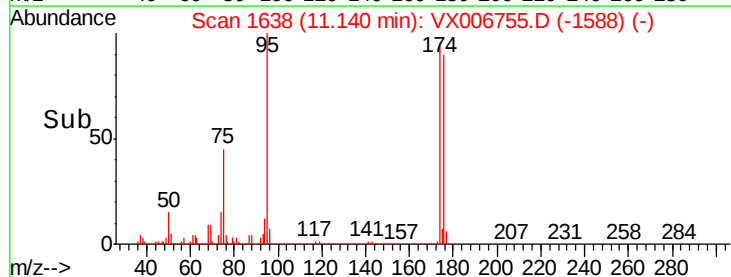
Abundance Ion 94.90 (94.60 to 95.60): VX0

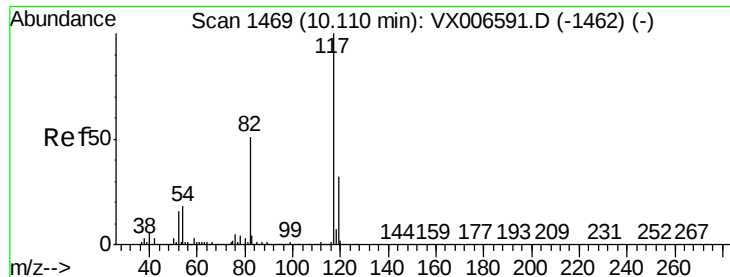
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->

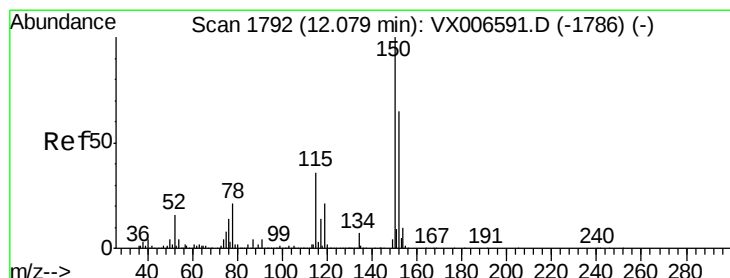
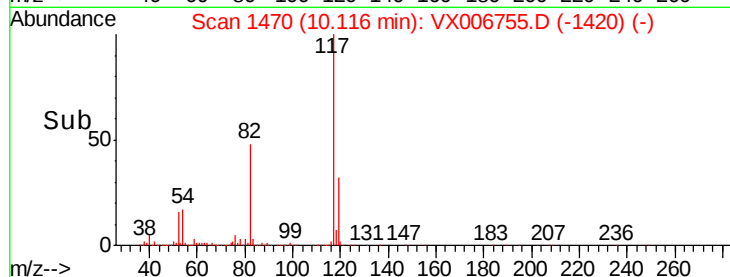
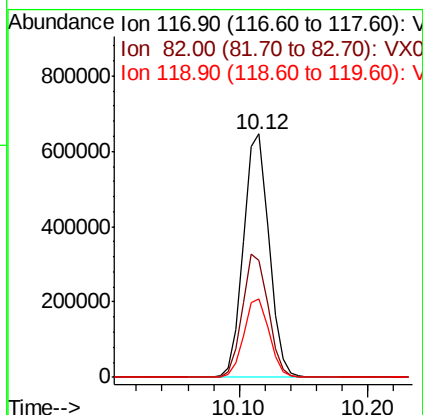
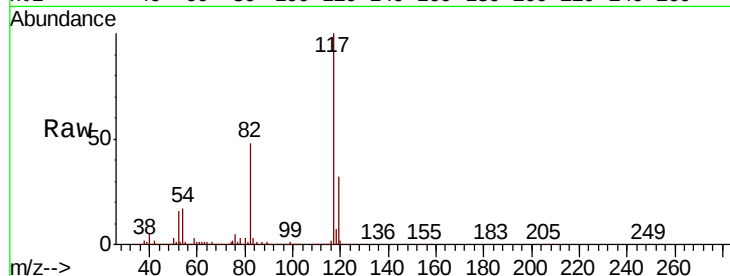




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006755.D
Acq: 22 Dec 2018 06:12

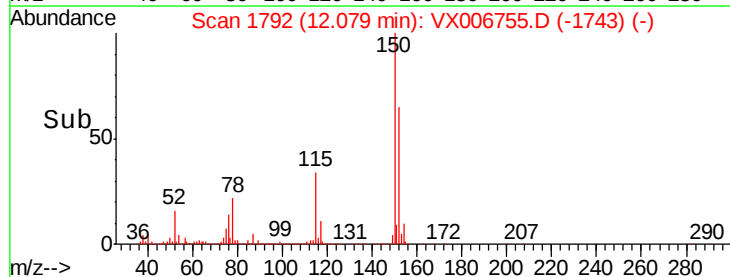
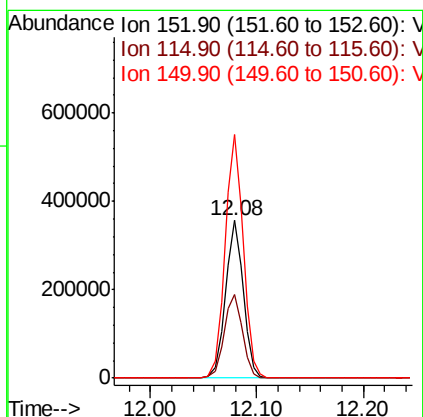
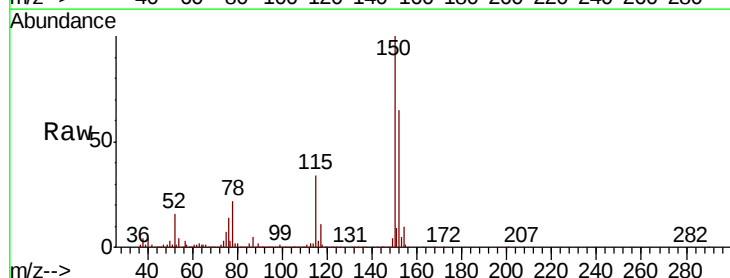
Instrument :
MSVOA_X
ClientSampleId :
TP-GROUNDWATER-1-1

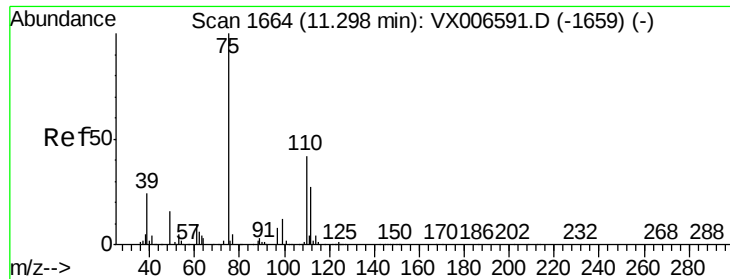
Tgt Ion	Ratio	Lower	Upper
117	100		
82	47.9	41.0	61.6
119	32.2	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX006755.D
Acq: 22 Dec 2018 06:12

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.9	39.1	117.2
150	157.3	0.0	344.8

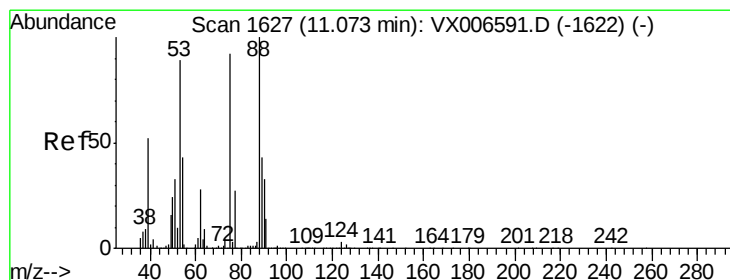
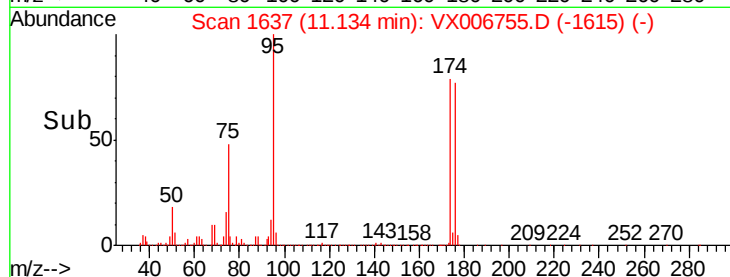
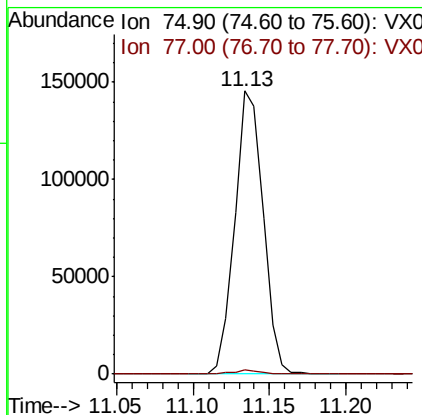
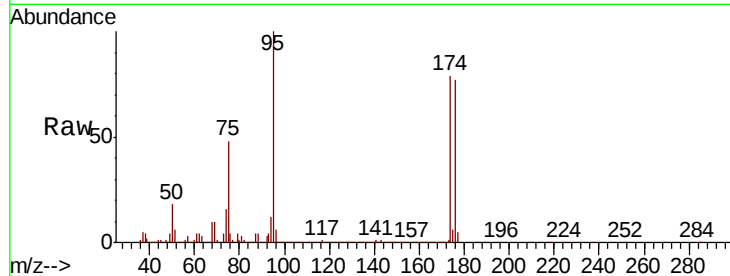




#76
 1,2,3-Trichloropropane
 Concen: 24.223 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006755.D
 Acq: 22 Dec 2018 06:12

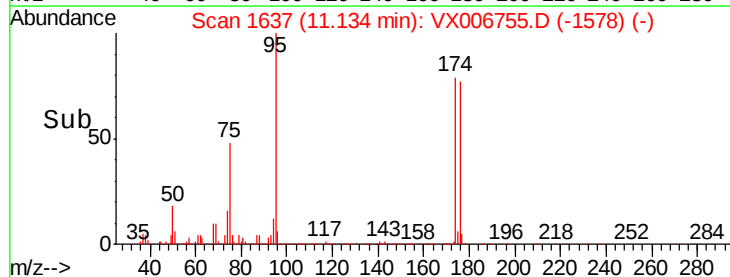
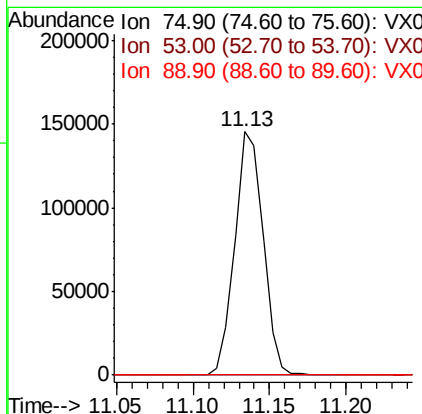
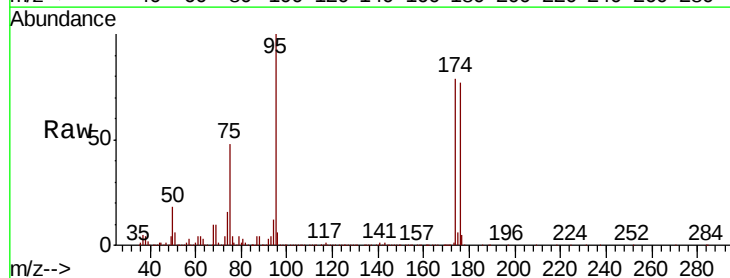
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-GROUNDWATER-1-1

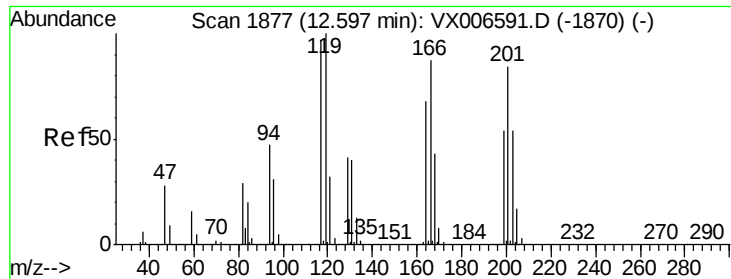
Tgt Ion: 75 Resp: 187567
 Ion Ratio Lower Upper
 75 100
 77 1.4 18.5 55.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.709 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX006755.D
 Acq: 22 Dec 2018 06:12

Tgt Ion: 75 Resp: 187567
 Ion Ratio Lower Upper
 75 100
 53 0.2 79.7 119.5#
 89 0.1 38.0 57.0#





#90

Hexachloroethane

Concen: 3.299 ug/l

RT: 12.60 min Scan# 1878

Delta R.T. 0.01 min

Lab File: VX006755.D

Acq: 22 Dec 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

TP-GROUNDWATER-1-1

Tgt Ion:117 Resp: 25

Ion Ratio Lower Upper

117 100

201 80.0 42.9 128.7

