

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071018\
 Data File : VX003297.D
 Acq On : 10 Jul 2018 21:02
 Operator : JC/MD
 Sample : J3892-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE BLANK-SOILREF-6

Quant Time: Jul 11 00:56:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X070918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 09 15:24:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	239921	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	329558	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	305420	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	167021	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	149768	39.67	ug/l	0.00
Spiked Amount			Recovery	=	79.34%	
35) Dibromofluoromethane	5.51	113	129641	36.62	ug/l	0.00
Spiked Amount			Recovery	=	73.24%	
50) Toluene-d8	8.72	98	463762	36.88	ug/l	0.00
Spiked Amount			Recovery	=	73.76%	
62) 4-Bromofluorobenzene	11.14	95	155420	33.45	ug/l	0.00
Spiked Amount			Recovery	=	66.90%	

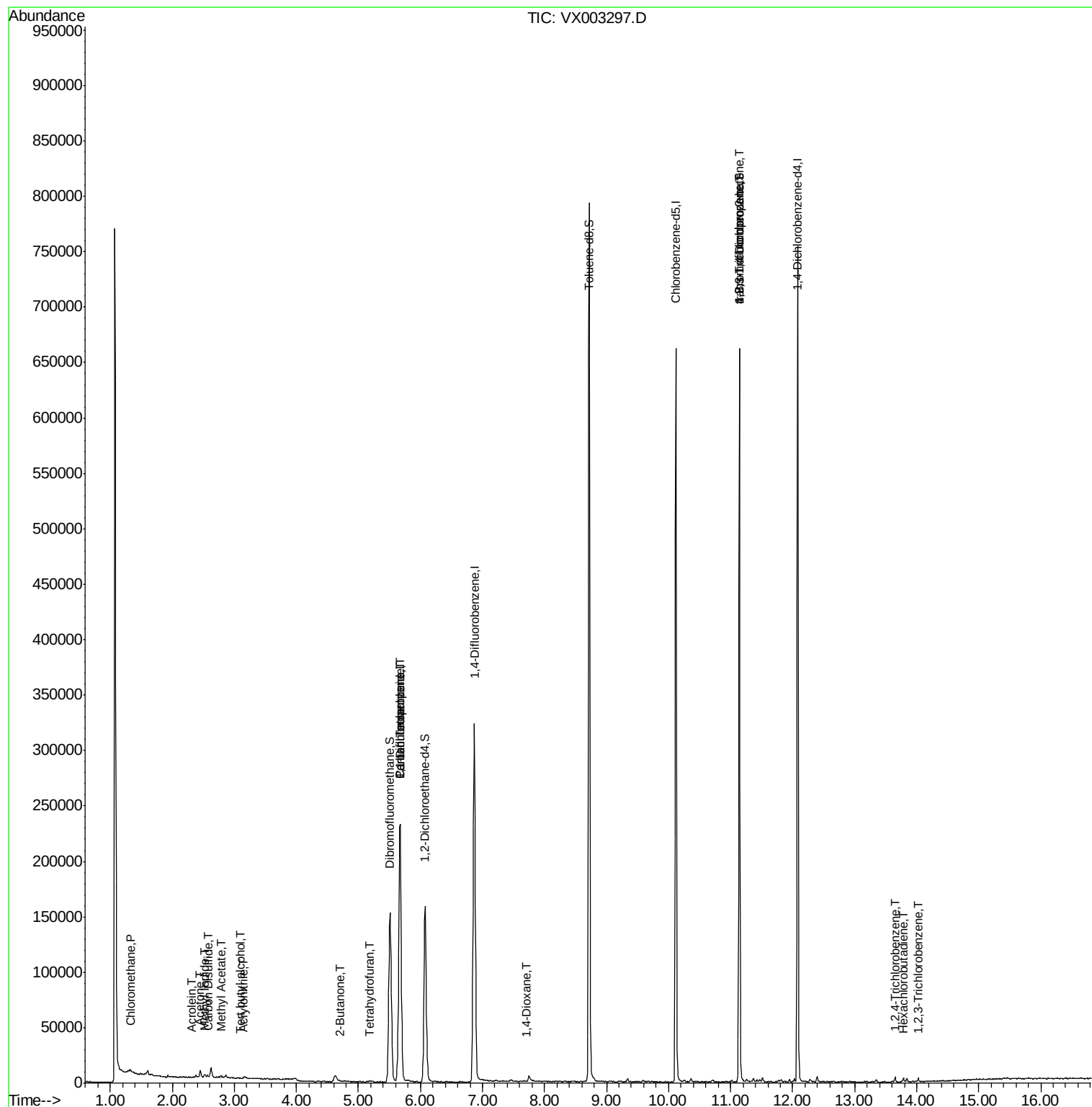
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	740	0.22	ug/l	# 43
5) Bromomethane	1.65	94	1656	Below Cal		93
10) Methyl Iodide	2.52	142	3169	6.51	ug/l	# 97
11) Tert butyl alcohol	3.09	59	309	0.45	ug/l	# 66
13) Acrolein	2.31	56	367	0.67	ug/l	# 56
15) Acrylonitrile	3.15	53	597	0.39	ug/l	# 77
16) Acetone	2.45	43	6640	4.95	ug/l	98
17) Carbon Disulfide	2.57	76	2526	0.34	ug/l	99
18) Methyl Acetate	2.79	43	1666	0.44	ug/l	# 83
20) Methylene Chloride	2.86	84	677	Below Cal		# 77
25) 2-Butanone	4.71	43	706	0.30	ug/l	99
29) Tetrahydrofuran	5.19	42	678	0.44	ug/l	# 83
36) 1,1-Dichloropropene	5.67	75	15259	3.27	ug/l	# 52
38) Carbon Tetrachloride	5.67	117	21090	4.13	ug/l	# 17
49) 1,4-Dioxane	7.71	88	19	0.22	ug/l	# 1
76) 1,2,3-Trichloropropane	11.14	75	77547	21.48	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	77547	70.21	ug/l	# 7
93) 1,2,4-Trichlorobenzene	13.65	180	1309	0.26	ug/l	94
94) Hexachlorobutadiene	13.79	225	619	0.24	ug/l	89
96) 1,2,3-Trichlorobenzene	14.02	180	1063	0.21	ug/l	96

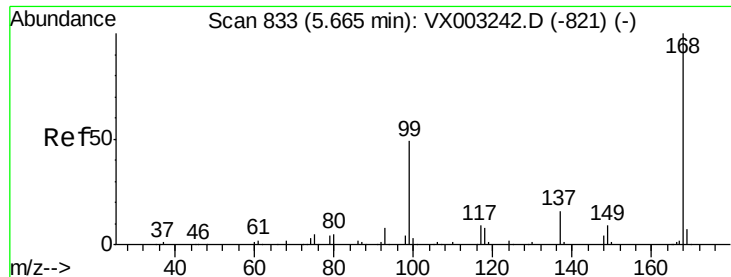
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003297.D

Acq: 10 Jul 2018 21:02

Instrument :

MSVOA_X

ClientSampleId :

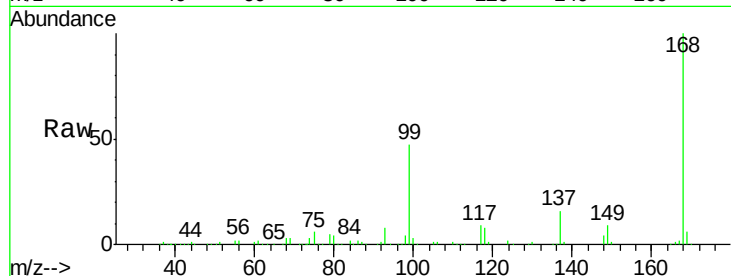
STORAGEBLANK-SOILREF-6

Tot Ion:168 Resp: 239921

Ion Ratio Lower Upper

168 100

99 47.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

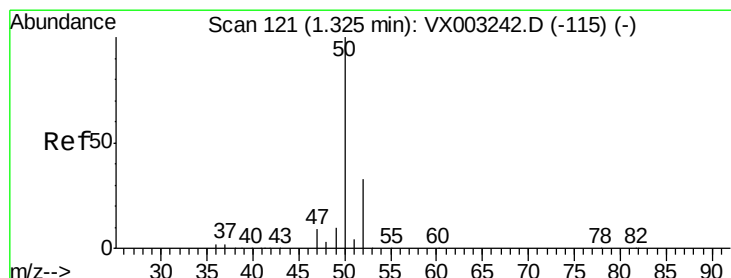
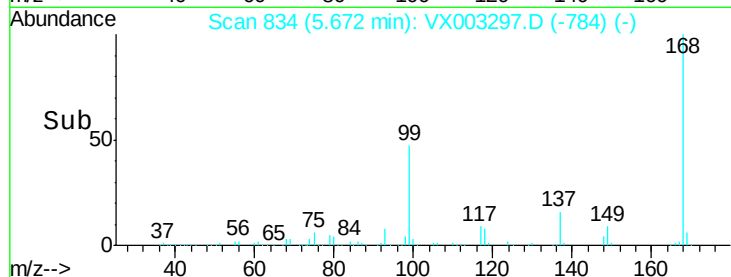
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.22 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX003297.D

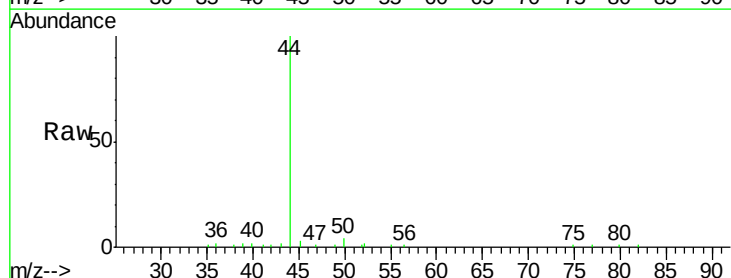
Acq: 10 Jul 2018 21:02

Tgt Ion: 50 Resp: 740

Ion Ratio Lower Upper

50 100

52 63.7 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

400

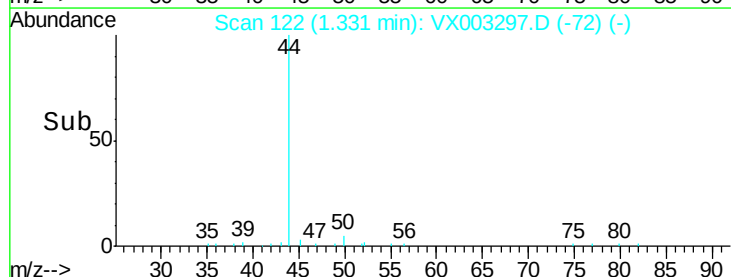
300

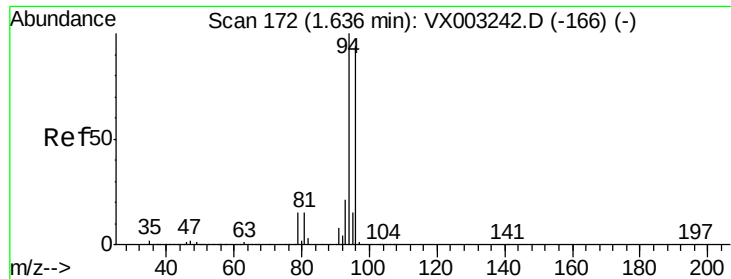
200

100

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003297.D

Acq: 10 Jul 2018 21:02

Instrument :

MSVOA_X

ClientSampleId :

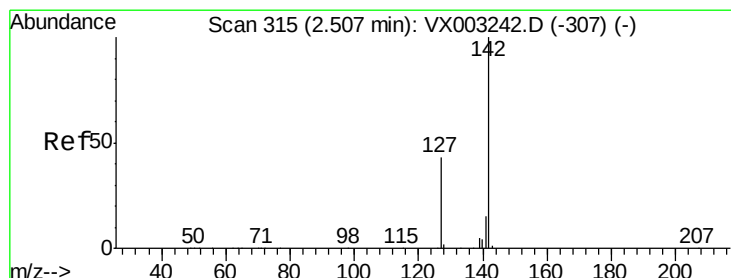
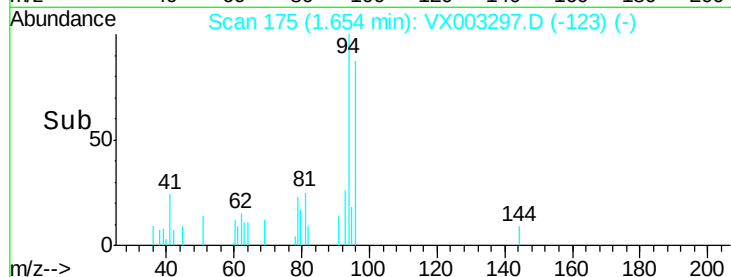
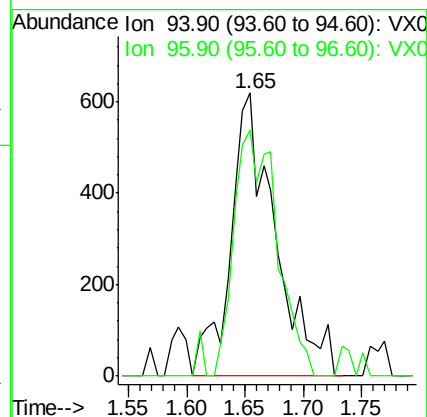
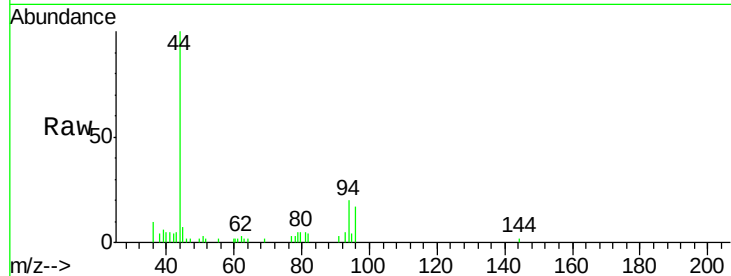
STORAGEBLANK-SOILREF-6

Tot Ion: 94 Resp: 1656

Ion Ratio Lower Upper

94 100

96 86.9 74.9 112.3



#10

Methyl Iodide

Concen: 6.51 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003297.D

Acq: 10 Jul 2018 21:02

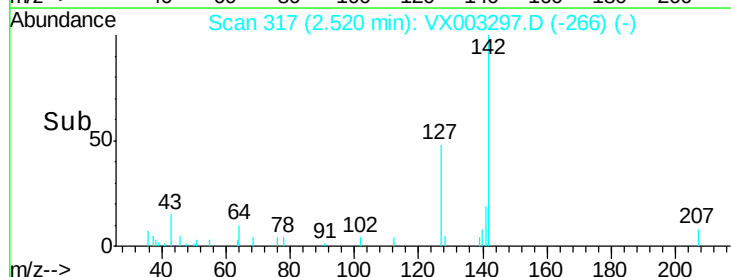
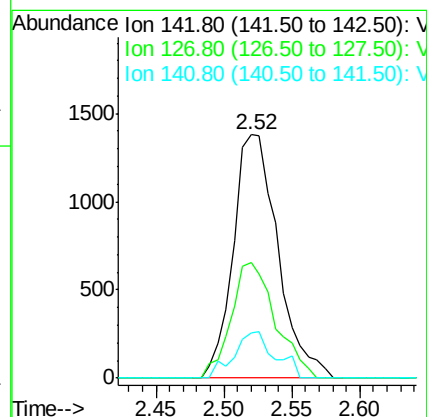
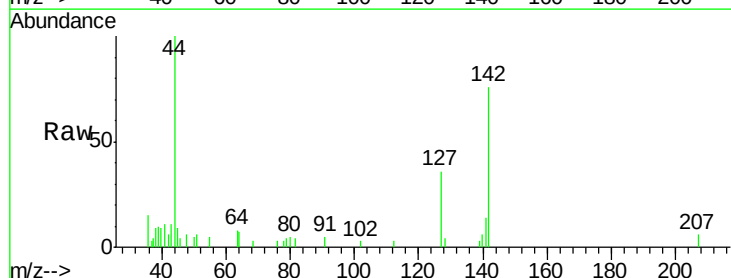
Tgt Ion:142 Resp: 3169

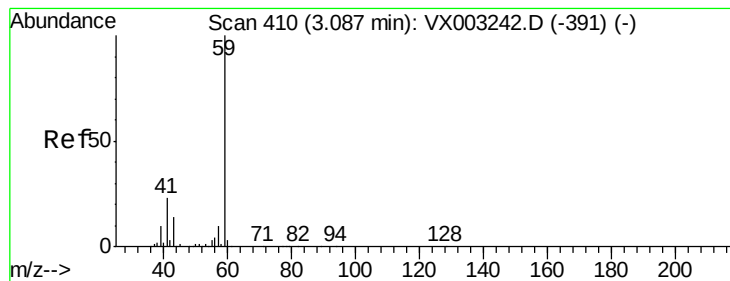
Ion Ratio Lower Upper

142 100

127 47.1 36.6 55.0

141 17.3 11.3 16.9#



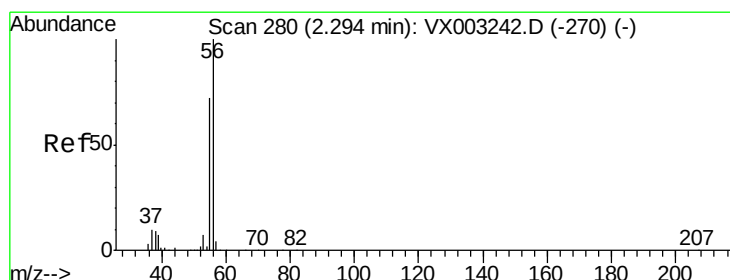
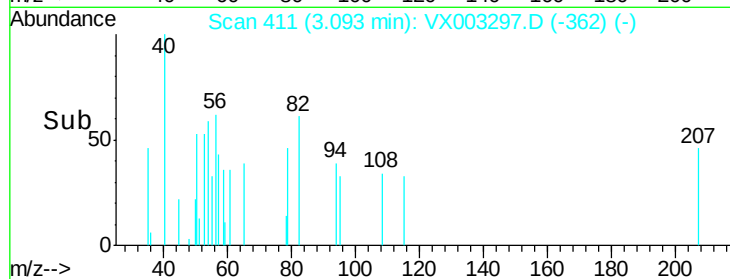
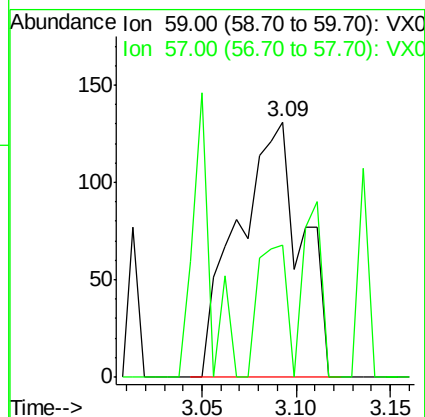
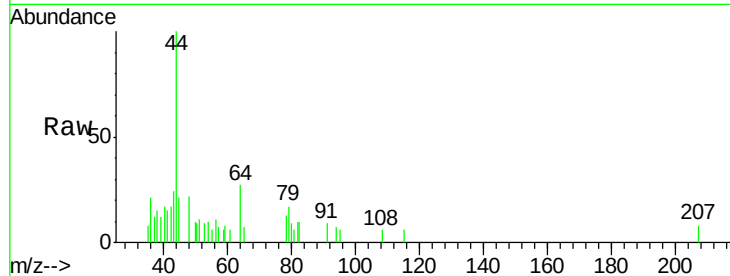


#11

Tert butyl alcohol
 Concen: 0.45 ug/l
 RT: 3.09 min Scan# 411
 Delta R.T. 0.00 min
 Lab File: VX003297.D
 Acq: 10 Jul 2018 21:02

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGEBLANK-SOILREF-6

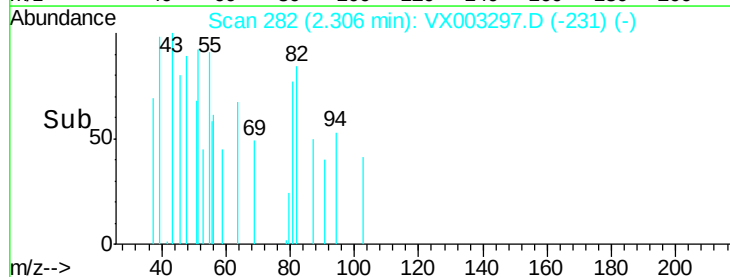
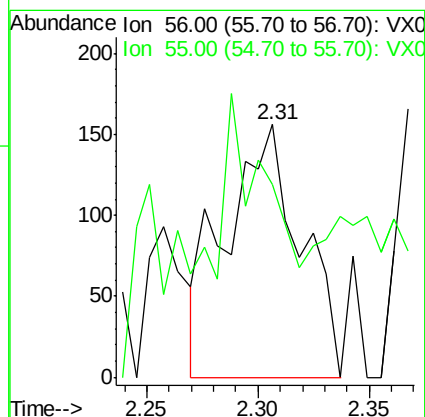
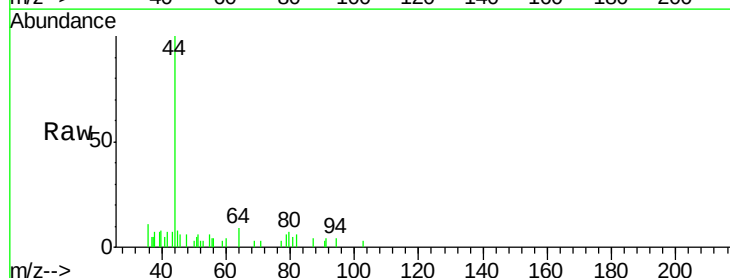
Tot Ion: 59 Resp: 309
 Ion Ratio Lower Upper
 59 100
 57 23.0 8.2 12.2#

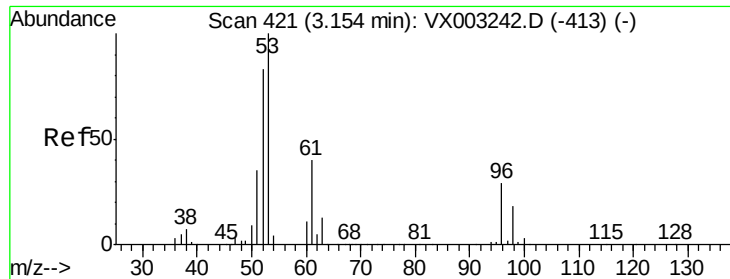


#13

Acrolein
 Concen: 0.67 ug/l
 RT: 2.31 min Scan# 282
 Delta R.T. 0.01 min
 Lab File: VX003297.D
 Acq: 10 Jul 2018 21:02

Tgt Ion: 56 Resp: 367
 Ion Ratio Lower Upper
 56 100
 55 35.1 57.0 85.4#





#15

Acrylonitrile

Concen: 0.39 ug/l

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX003297.D

Acq: 10 Jul 2018 21:02

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-6

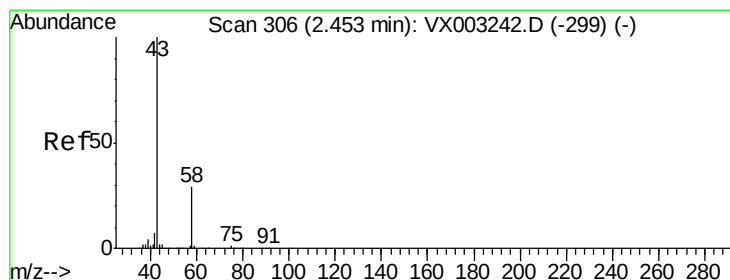
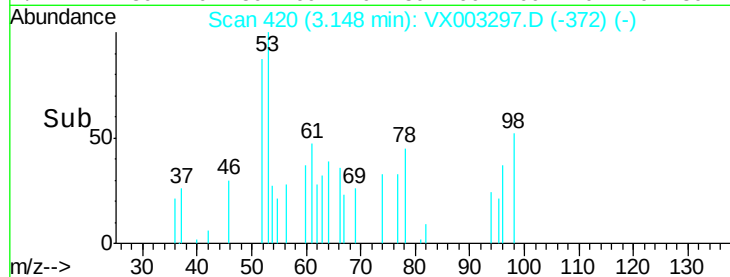
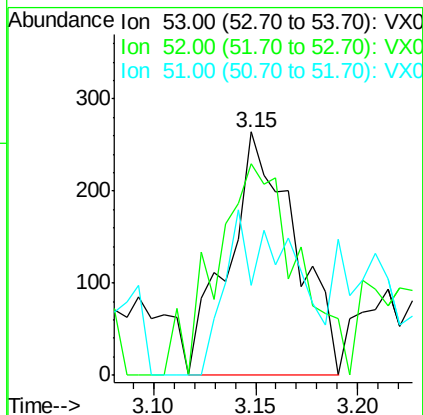
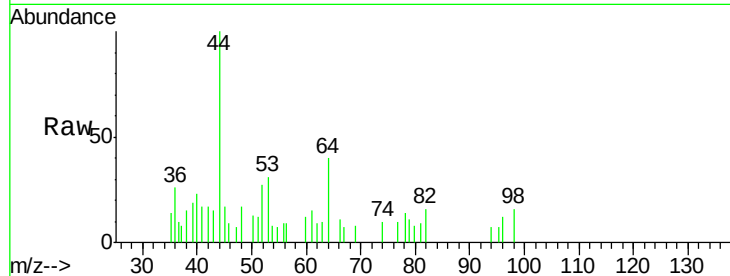
Tot Ion: 53 Resp: 597

Ion Ratio Lower Upper

53 100

52 106.5 66.7 100.1#

51 26.8 29.9 44.9#



#16

Acetone

Concen: 4.95 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX003297.D

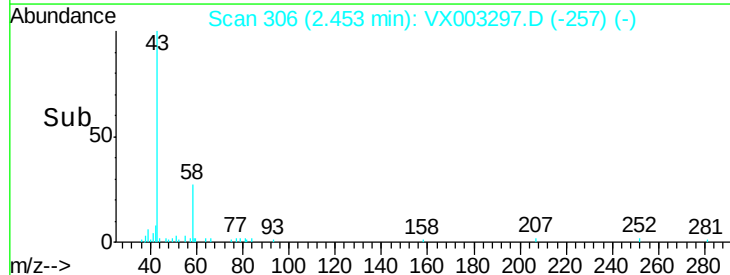
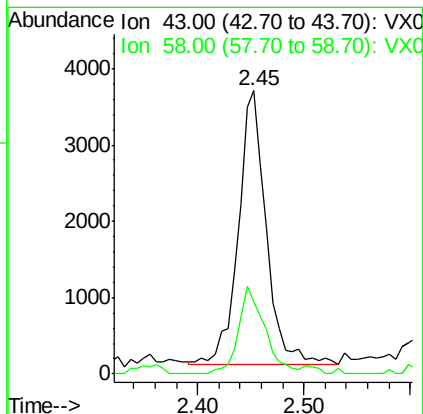
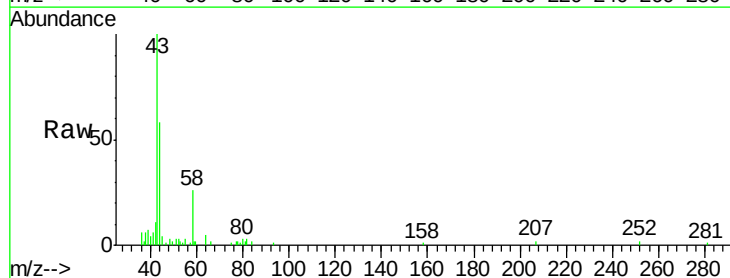
Acq: 10 Jul 2018 21:02

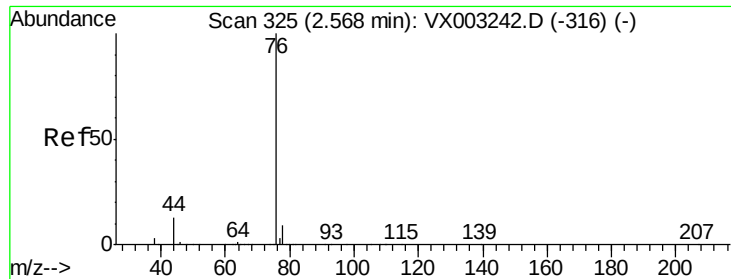
Tgt Ion: 43 Resp: 6640

Ion Ratio Lower Upper

43 100

58 26.4 22.1 33.1





#17

Carbon Disulfide

Concen: 0.34 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX003297.D

Acq: 10 Jul 2018 21:02

Instrument :

MSVOA_X

ClientSampleId :

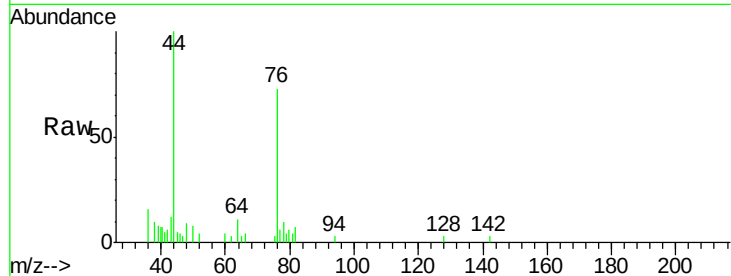
STORAGEBLANK-SOILREF-6

Tot Ion: 76 Resp: 2526

Ion Ratio Lower Upper

76 100

78 8.4 6.9 10.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

1500

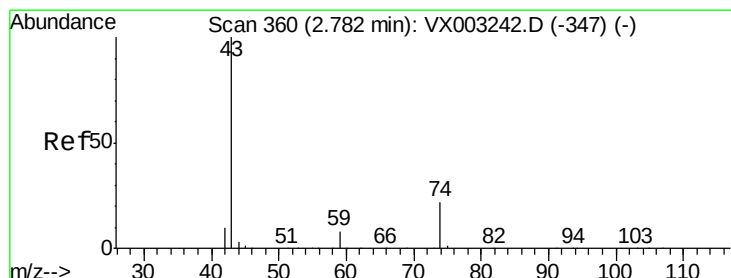
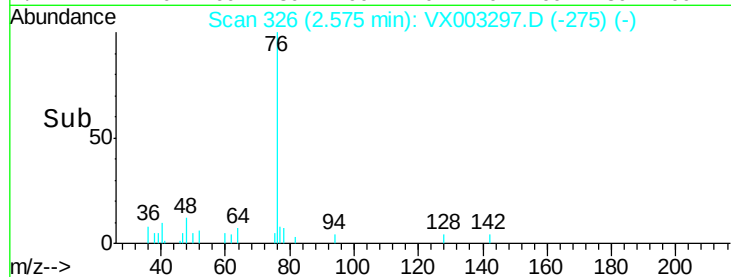
1000

500

0

Time-->

2.50 2.55 2.60 2.65



#18

Methyl Acetate

Concen: 0.44 ug/l

RT: 2.79 min Scan# 361

Delta R.T. 0.01 min

Lab File: VX003297.D

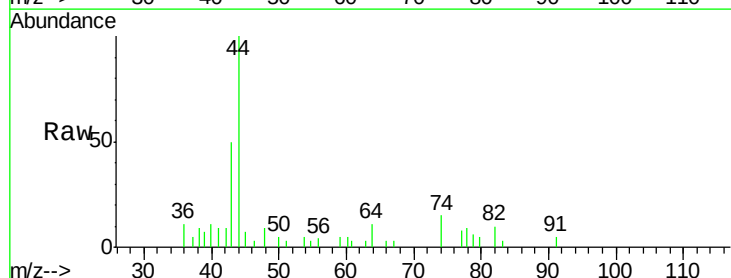
Acq: 10 Jul 2018 21:02

Tgt Ion: 43 Resp: 1666

Ion Ratio Lower Upper

43 100

74 28.6 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.79

1000

800

600

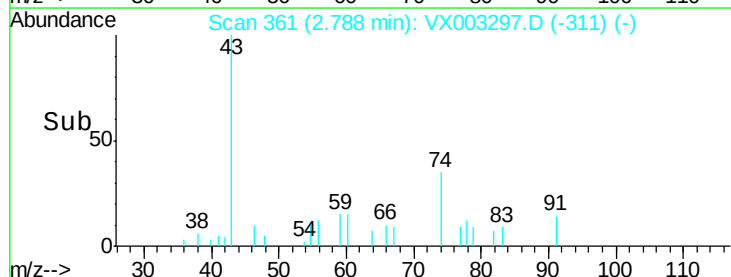
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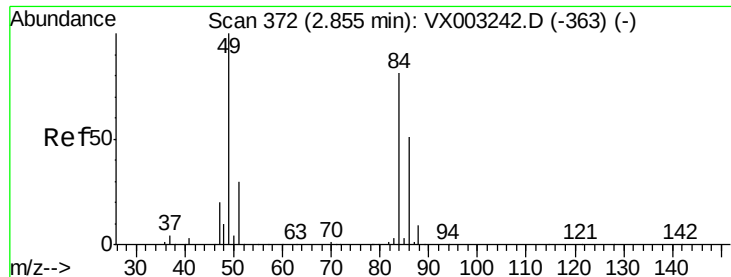
200

0

Time-->

2.70 2.75 2.80 2.85

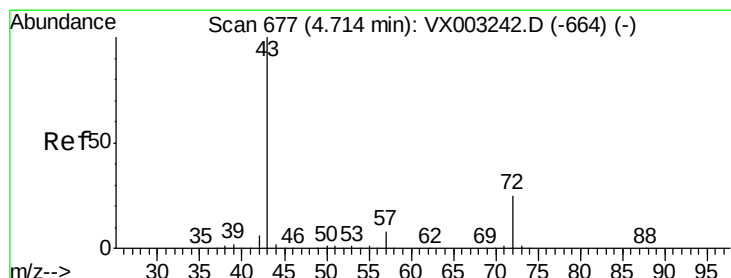
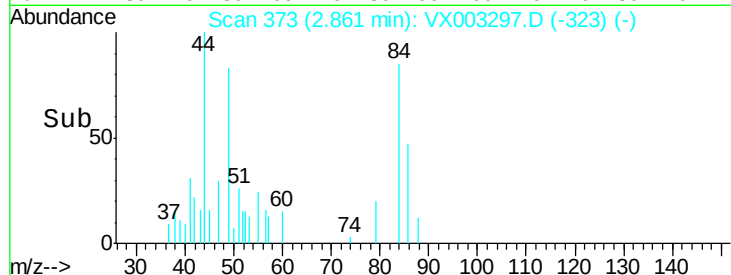
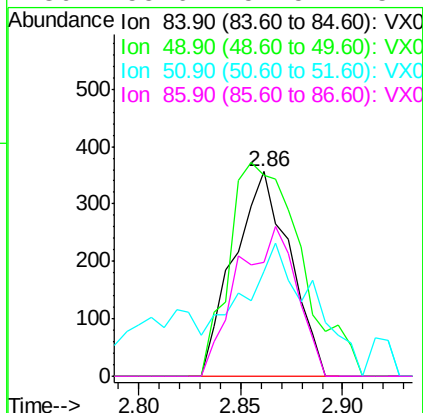
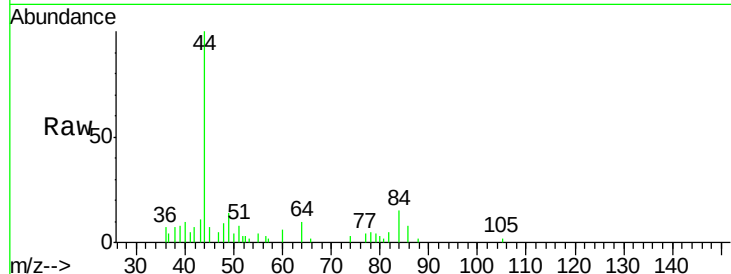




#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003297.D
Acq: 10 Jul 2018 21:02

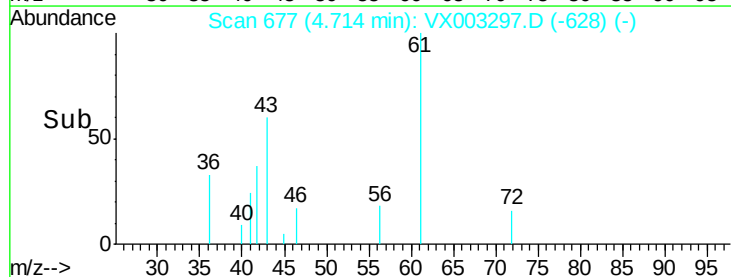
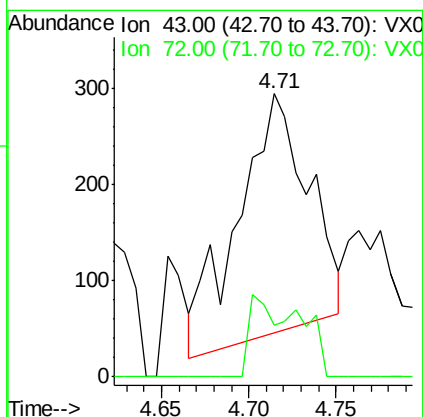
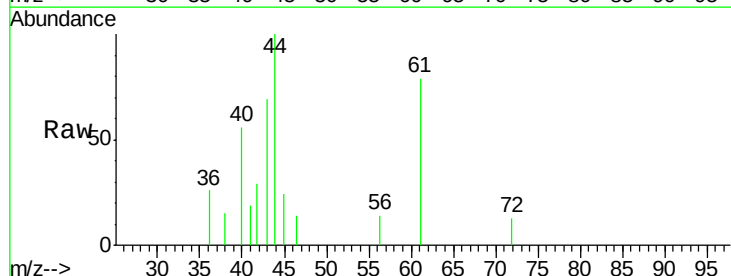
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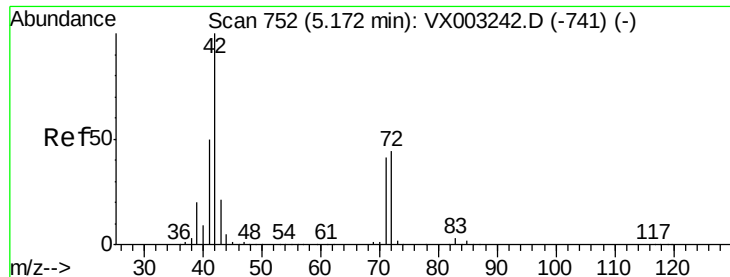
Tot Ion: 84 Resp: 677
Ion Ratio Lower Upper
84 100
49 98.0 107.8 161.6#
51 31.5 32.8 49.2#
86 55.6 52.5 78.7



#25
2-Butanone
Concen: 0.30 ug/l
RT: 4.71 min Scan# 677
Delta R.T. 0.00 min
Lab File: VX003297.D
Acq: 10 Jul 2018 21:02

Tgt Ion: 43 Resp: 706
Ion Ratio Lower Upper
43 100
72 23.7 18.5 27.7

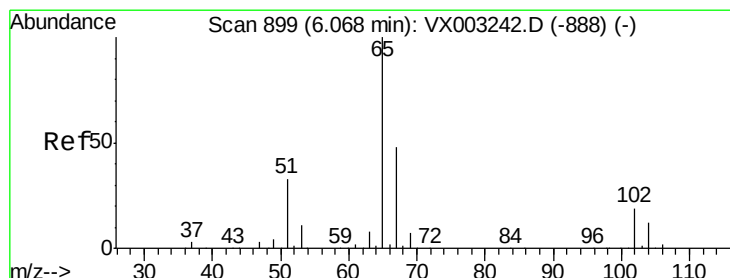
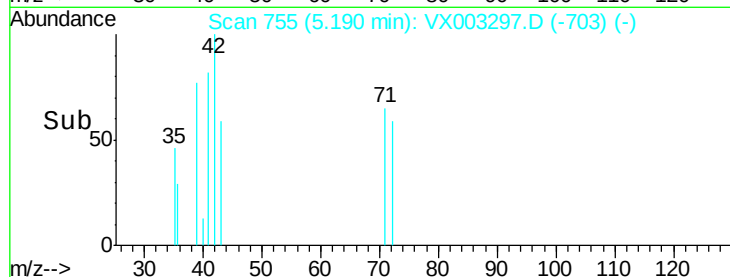
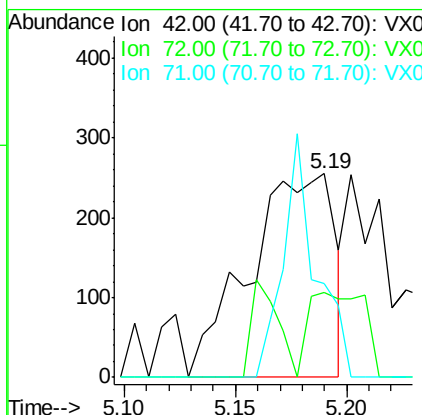
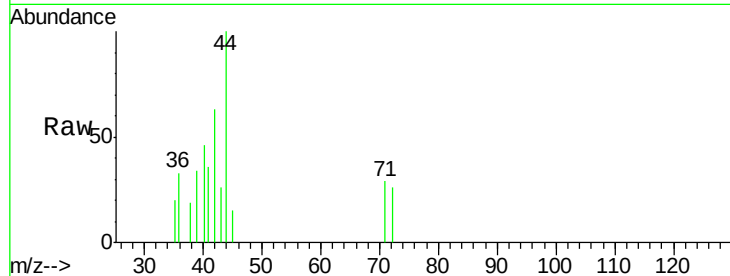




#29
Tetrahydrofuran
Concen: 0.44 ug/l
RT: 5.19 min Scan# 755
Delta R.T. 0.02 min
Lab File: VX003297.D
Acq: 10 Jul 2018 21:02

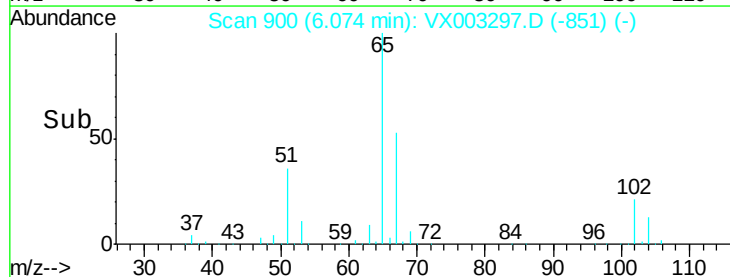
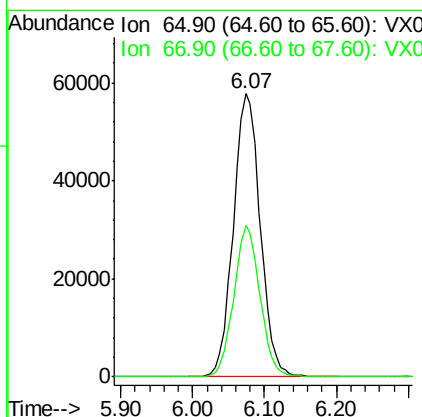
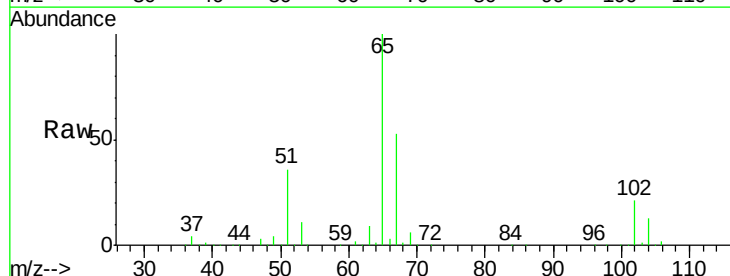
Instrument :
MSVOA_X
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STORAGEBLANK-SOILREF-6

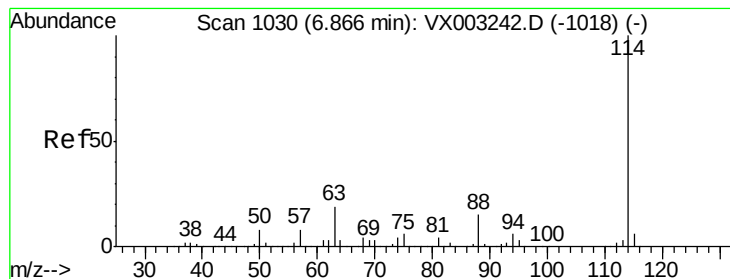
Tot Ion: 42 Resp: 678
Ion Ratio Lower Upper
42 100
72 27.6 32.0 48.0#
71 45.6 30.1 45.1#



#33
1,2-Dichloroethane-d4
Concen: 39.67 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.00 min
Lab File: VX003297.D
Acq: 10 Jul 2018 21:02

Tgt Ion: 65 Resp: 149768
Ion Ratio Lower Upper
65 100
67 52.1 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX003297.D

Acq: 10 Jul 2018 21:02

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-6

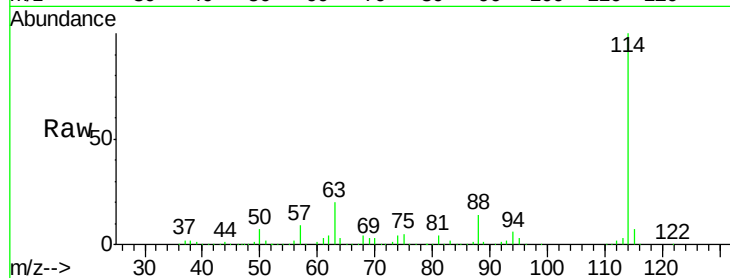
Tot Ion:114 Resp: 329558

Ion Ratio Lower Upper

114 100

63 20.0 0.0 41.4

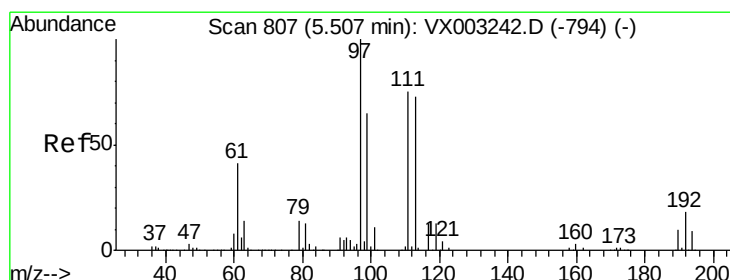
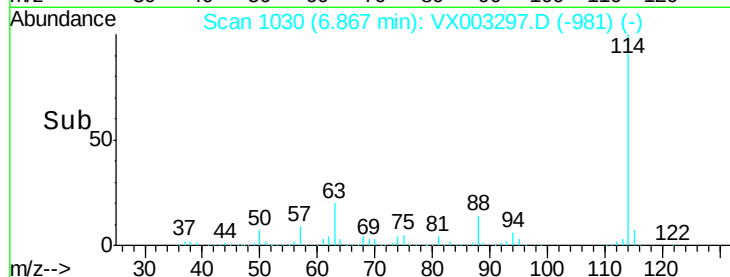
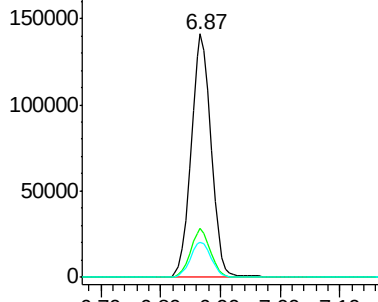
88 14.5 0.0 30.0



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: 36.62 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003297.D

Acq: 10 Jul 2018 21:02

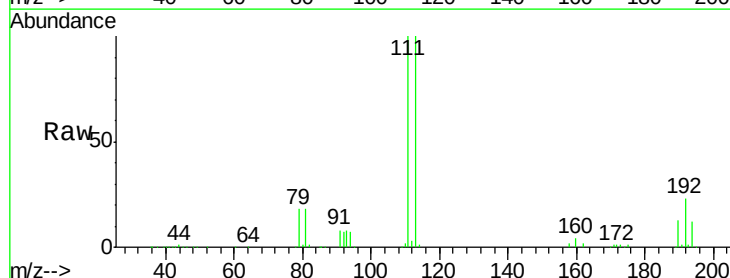
Tgt Ion:113 Resp: 129641

Ion Ratio Lower Upper

113 100

111 100.1 81.4 122.0

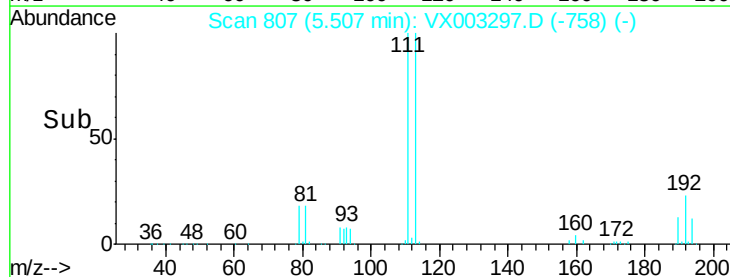
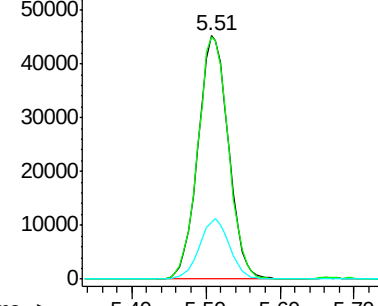
192 24.5 19.1 28.7

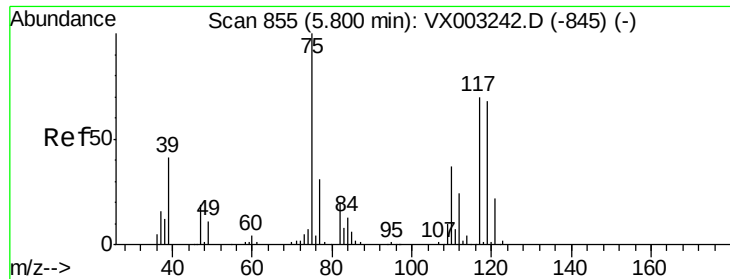


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

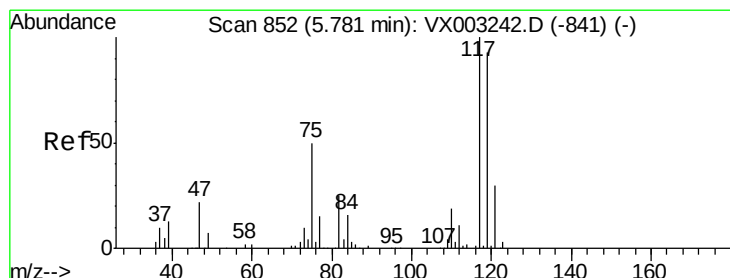
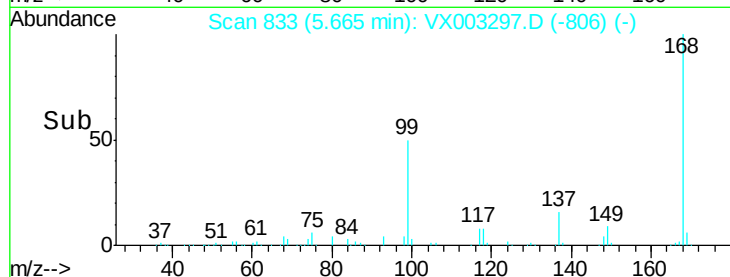
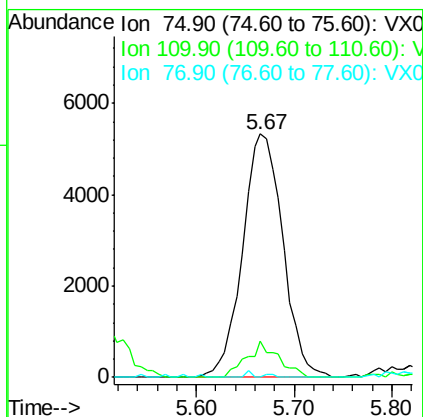
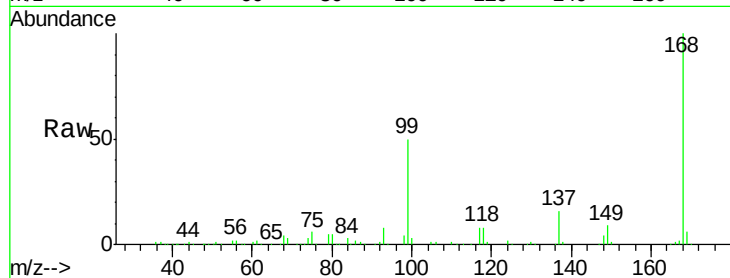




#36
 1,1-Dichloropropene
 Concen: 3.27 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003297.D
 Acq: 10 Jul 2018 21:02

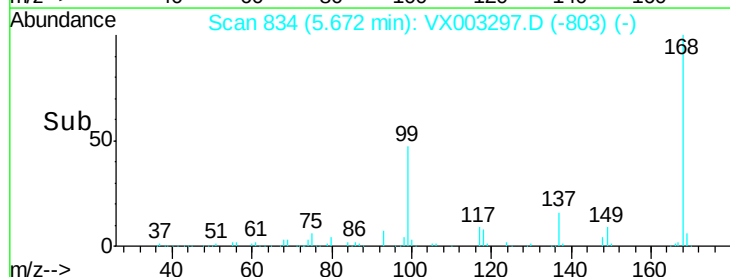
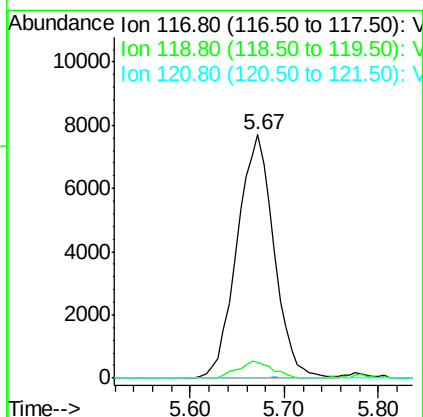
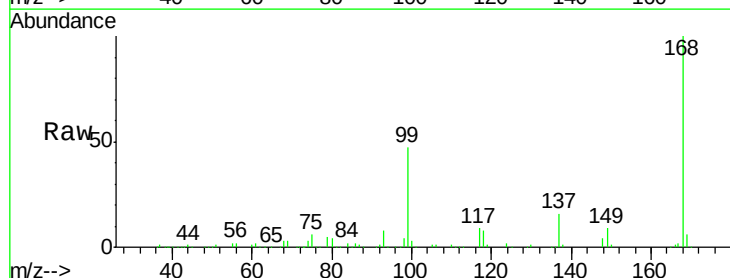
Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGEBLANK-SOILREF-6

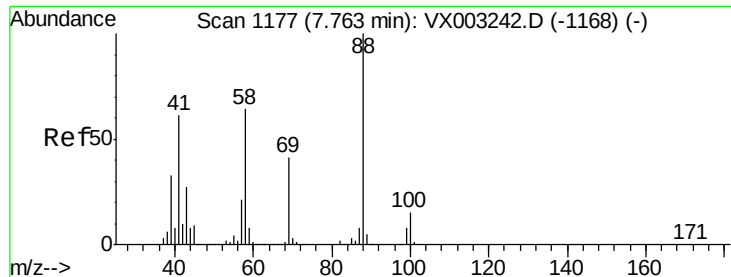
Tot Ion: 75 Resp: 15259
 Ion Ratio Lower Upper
 75 100
 110 11.7 18.1 54.4#
 77 0.4 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 4.13 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.11 min
 Lab File: VX003297.D
 Acq: 10 Jul 2018 21:02

Tgt Ion: 117 Resp: 21090
 Ion Ratio Lower Upper
 117 100
 119 6.7 77.4 116.0#
 121 0.0 24.4 36.6#

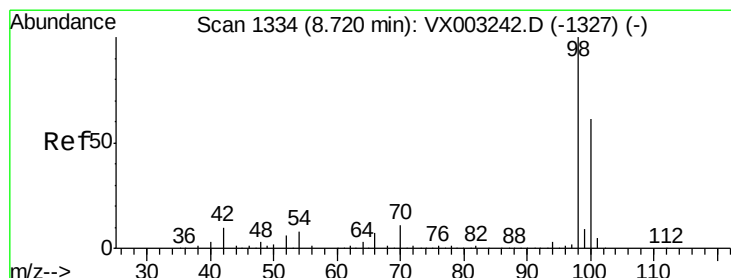
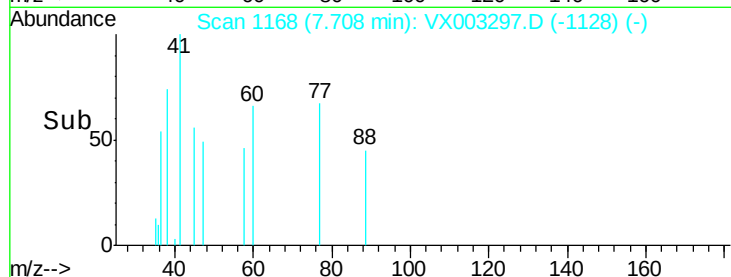
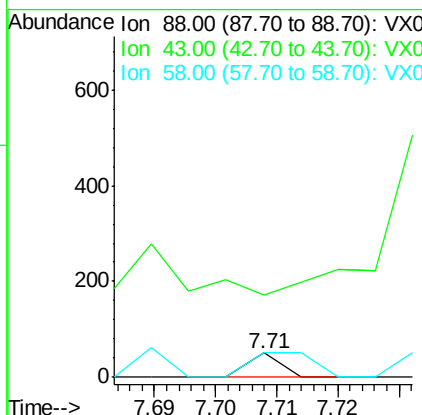
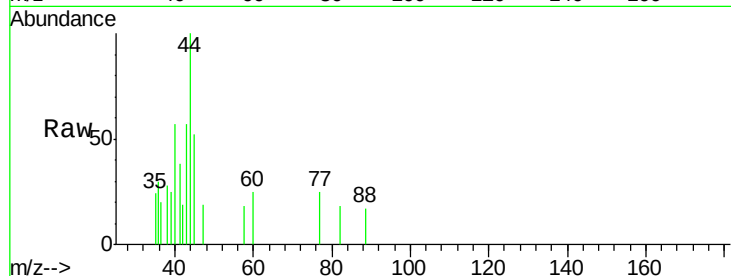




#49
1,4-Dioxane
Concen: 0.22 ug/l
RT: 7.71 min Scan# 1168
Delta R.T. -0.05 min
Lab File: VX003297.D
Acq: 10 Jul 2018 21:02

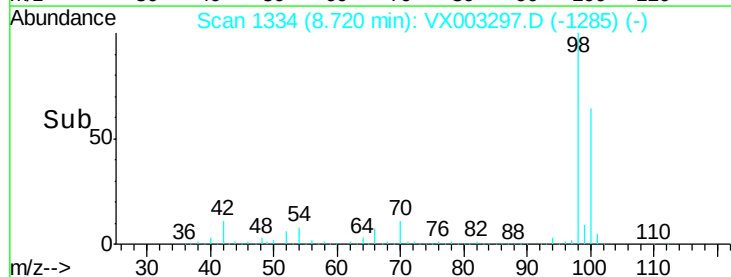
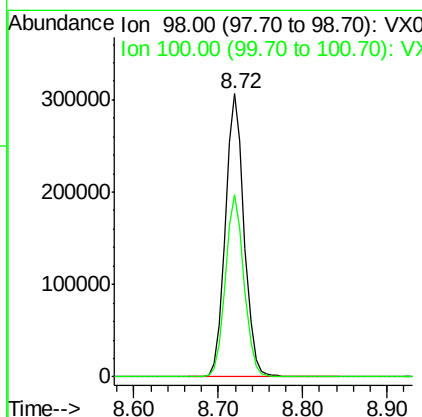
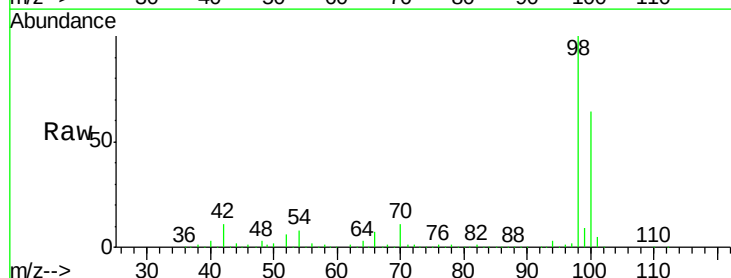
Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-SOILREF-6

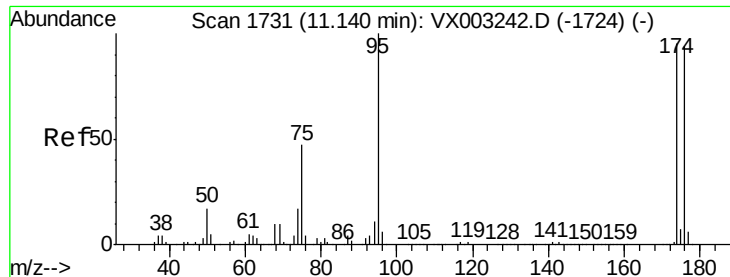
Tot Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 0.0 29.8 44.6#
58 200.0 57.1 85.7#



#50
Toluene-d8
Concen: 36.88 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX003297.D
Acq: 10 Jul 2018 21:02

Tgt Ion: 98 Resp: 463762
Ion Ratio Lower Upper
98 100
100 64.1 50.9 76.3





#62

4-Bromofluorobenzene

Concen: 33.45 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003297.D

Acq: 10 Jul 2018 21:02

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-6

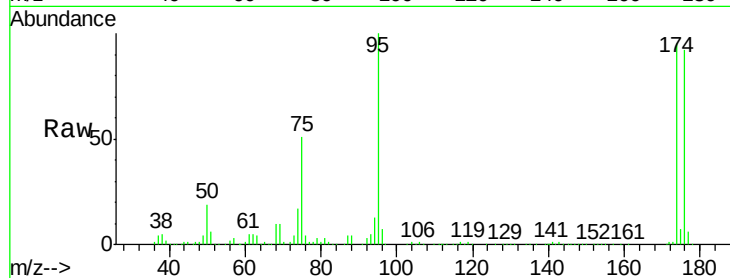
Tot Ion: 95 Resp: 155420

Ion Ratio Lower Upper

95 100

174 99.7 0.0 187.4

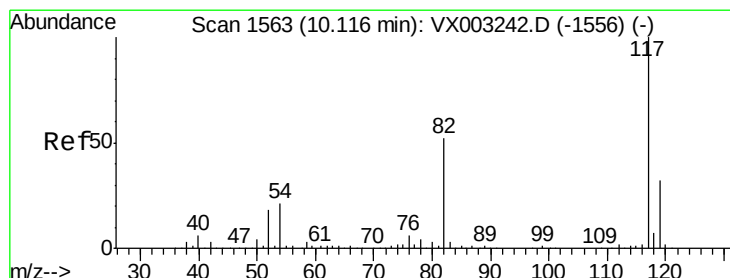
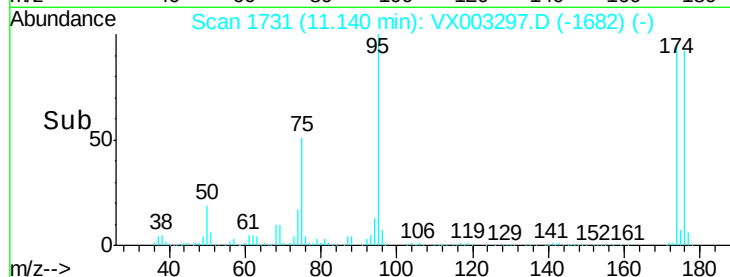
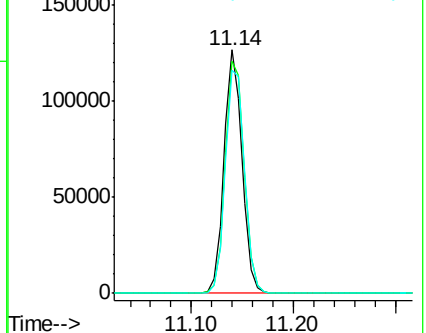
176 97.5 0.0 181.0



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: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003297.D

Acq: 10 Jul 2018 21:02

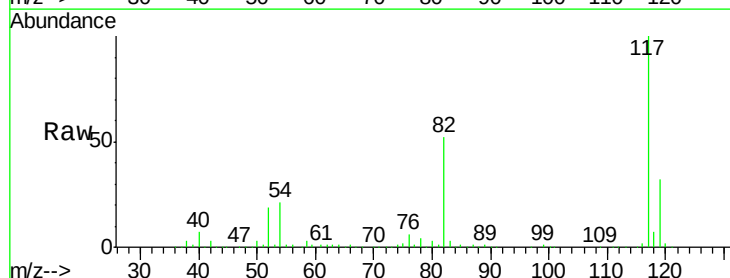
Tgt Ion: 117 Resp: 305420

Ion Ratio Lower Upper

117 100

82 52.4 45.0 67.4

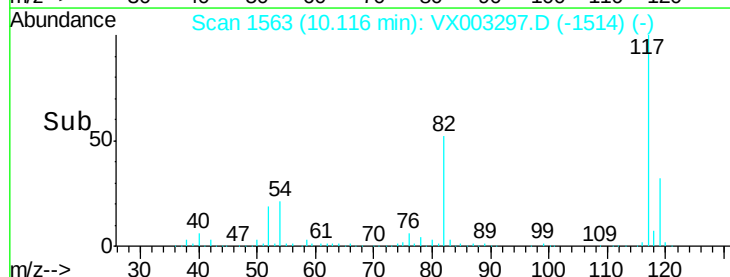
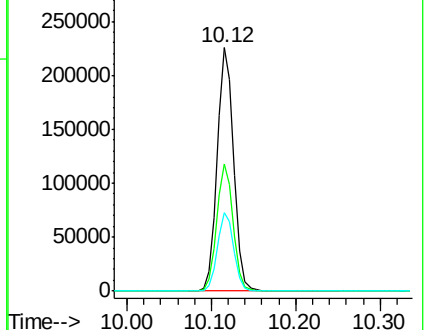
119 32.3 25.8 38.6

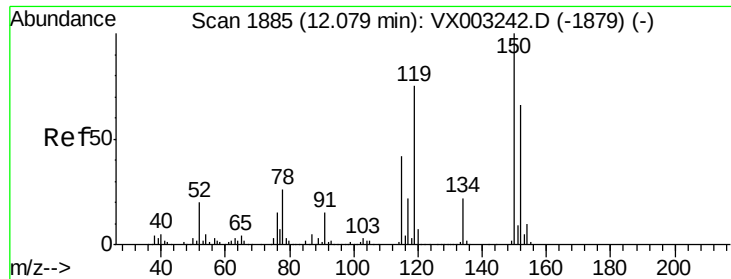


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



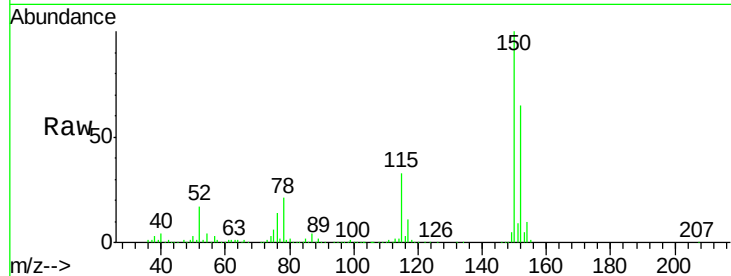


#72

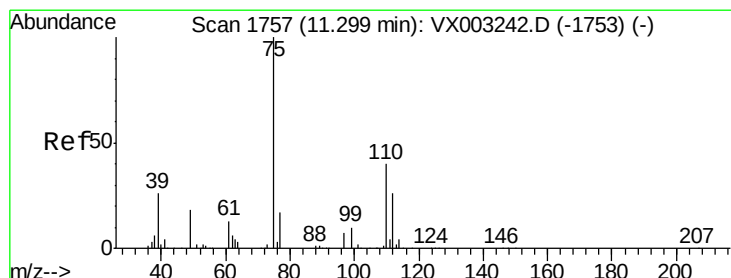
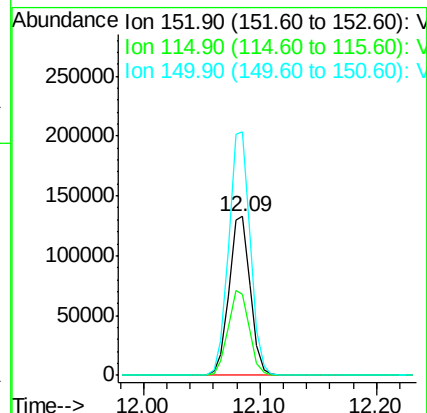
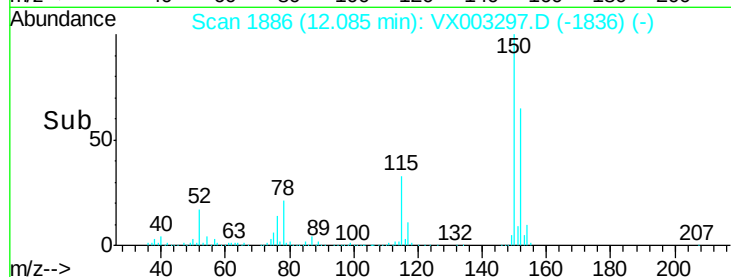
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.01 min
Lab File: VX003297.D
Acq: 10 Jul 2018 21:02

Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-SOILREF-6

Tot Ion:152 Resp: 167021
Ion Ratio Lower Upper
152 100
115 53.1 40.1 120.2
150 155.4 0.0 347.2



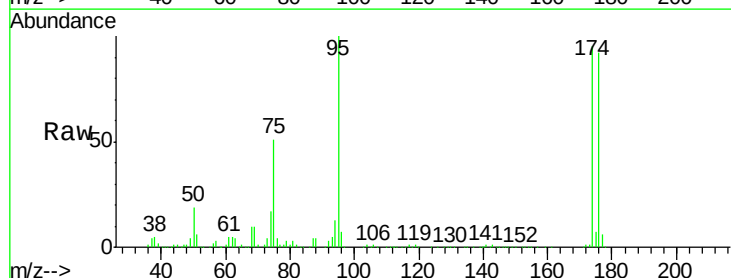
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



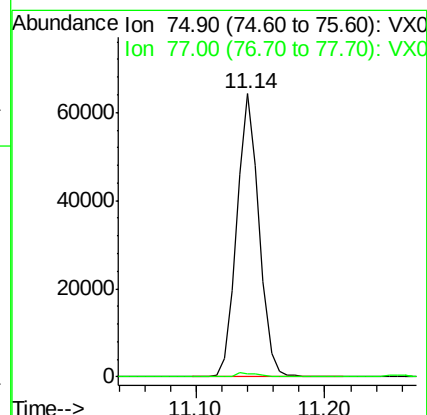
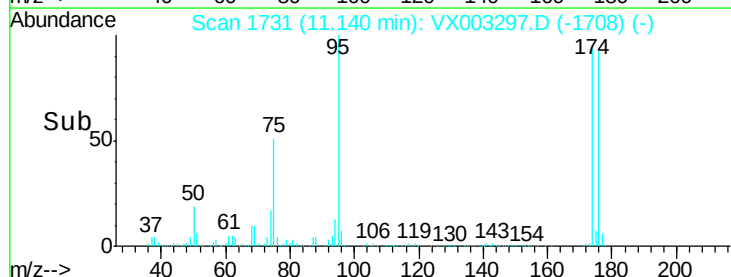
#76

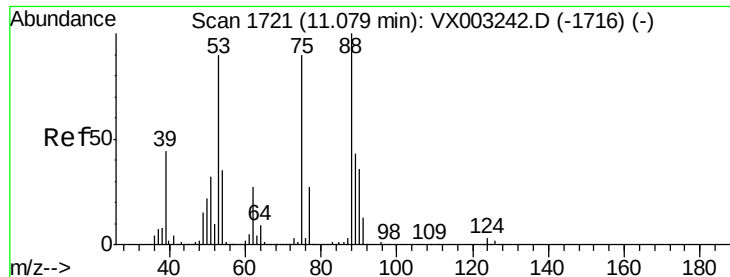
1,2,3-Trichloropropane
Concen: 21.48 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.16 min
Lab File: VX003297.D
Acq: 10 Jul 2018 21:02

Tgt Ion: 75 Resp: 77547
Ion Ratio Lower Upper
75 100
77 1.6 22.8 68.3#



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: 70.21 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003297.D

Acq: 10 Jul 2018 21:02

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-6

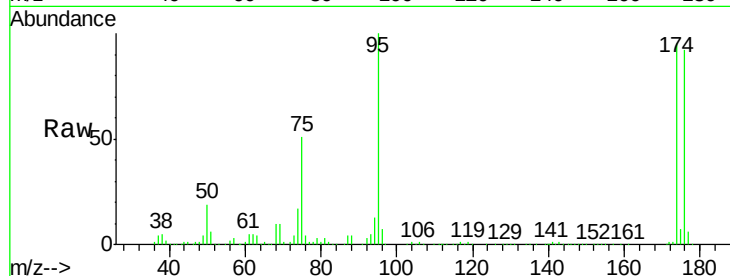
Tot Ion: 75 Resp: 77547

Ion Ratio Lower Upper

75 100

53 0.3 86.8 130.2#

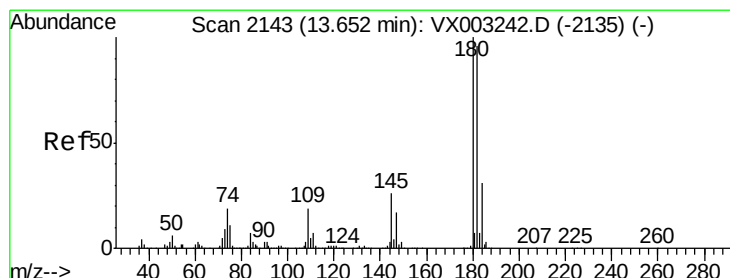
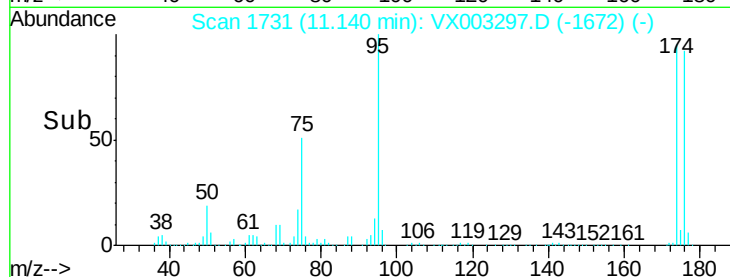
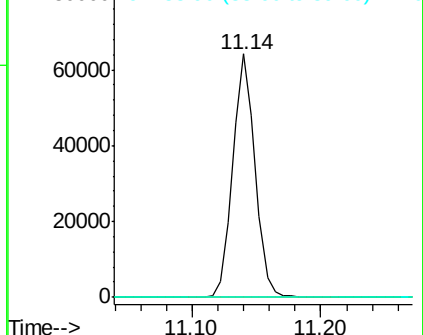
89 0.0 38.2 57.2#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.26 ug/l

RT: 13.65 min Scan# 2142

Delta R.T. -0.01 min

Lab File: VX003297.D

Acq: 10 Jul 2018 21:02

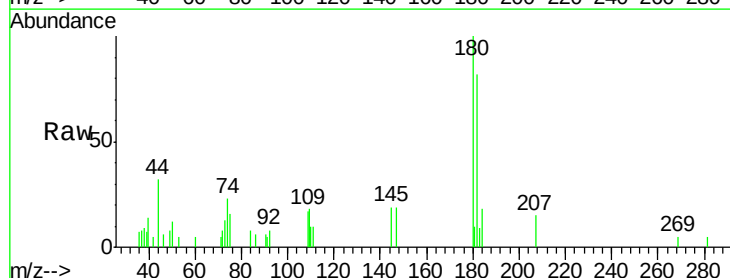
Tgt Ion:180 Resp: 1309

Ion Ratio Lower Upper

180 100

182 101.8 47.7 143.1

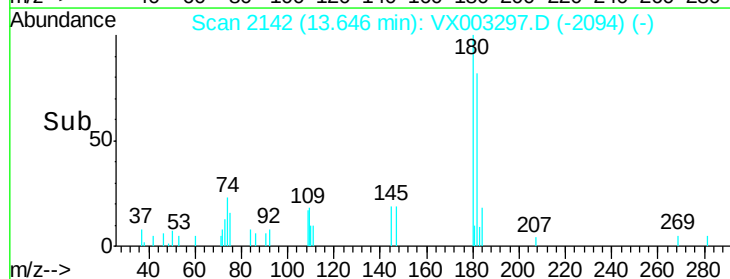
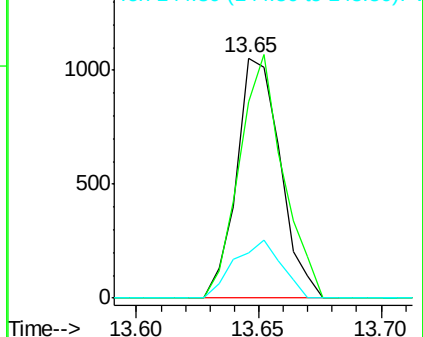
145 25.9 14.1 42.4

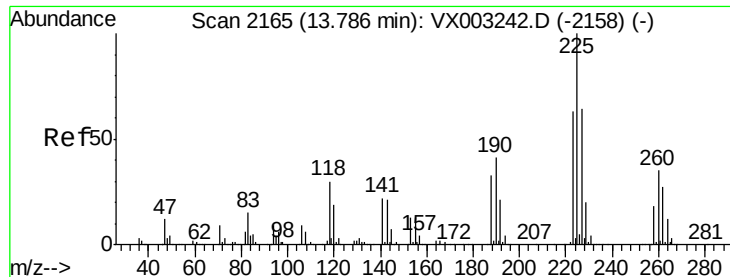


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.24 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VX003297.D

Acq: 10 Jul 2018 21:02

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-6

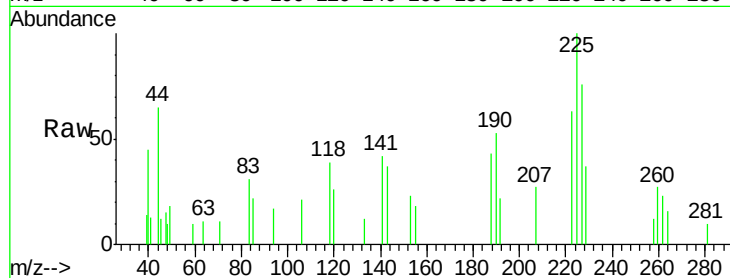
Tot Ion:225 Resp: 619

Ion Ratio Lower Upper

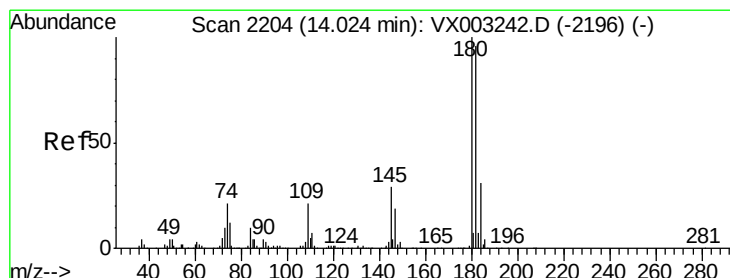
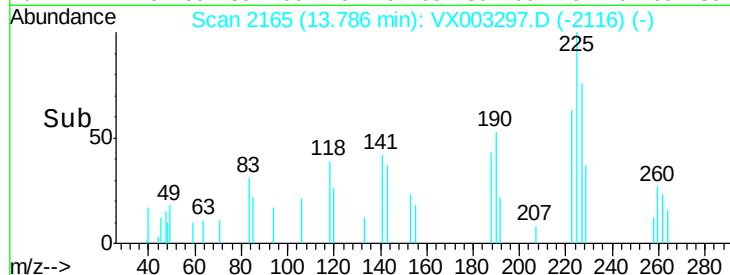
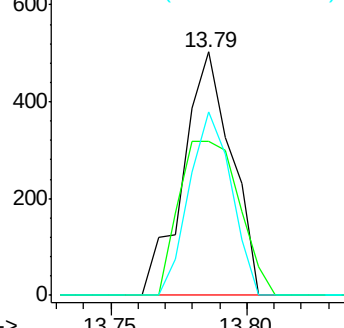
225 100

223 79.0 31.6 95.0

227 66.1 32.4 97.2



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#96

1,2,3-Trichlorobenzene

Concen: 0.21 ug/l

RT: 14.02 min Scan# 2204

Delta R.T. 0.00 min

Lab File: VX003297.D

Acq: 10 Jul 2018 21:02

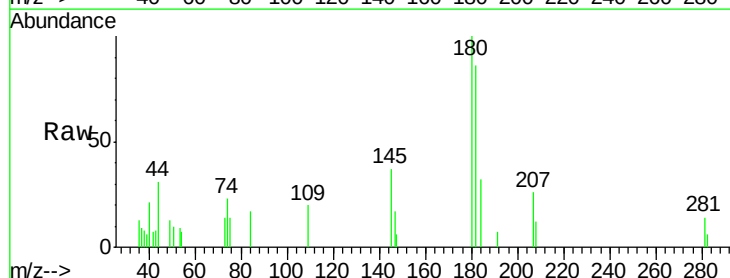
Tgt Ion:180 Resp: 1063

Ion Ratio Lower Upper

180 100

182 100.6 48.0 144.0

145 31.6 14.8 44.3



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

