

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080718\
 Data File : VX003876.D
 Acq On : 07 Aug 2018 12:59
 Operator : JC/MD
 Sample : J4337-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE BLANK-SOILREF-5

Quant Time: Aug 08 01:19:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 07:45:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	322912	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	500813	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	479824	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	228971	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	219986	51.39	ug/l	0.00
Spiked Amount			Recovery	=	102.78%	
35) Dibromofluoromethane	5.51	113	187690	49.47	ug/l	0.00
Spiked Amount			Recovery	=	98.94%	
50) Toluene-d8	8.71	98	711872	48.25	ug/l	0.00
Spiked Amount			Recovery	=	96.50%	
62) 4-Bromofluorobenzene	11.14	95	247972	51.94	ug/l	0.00
Spiked Amount			Recovery	=	103.88%	

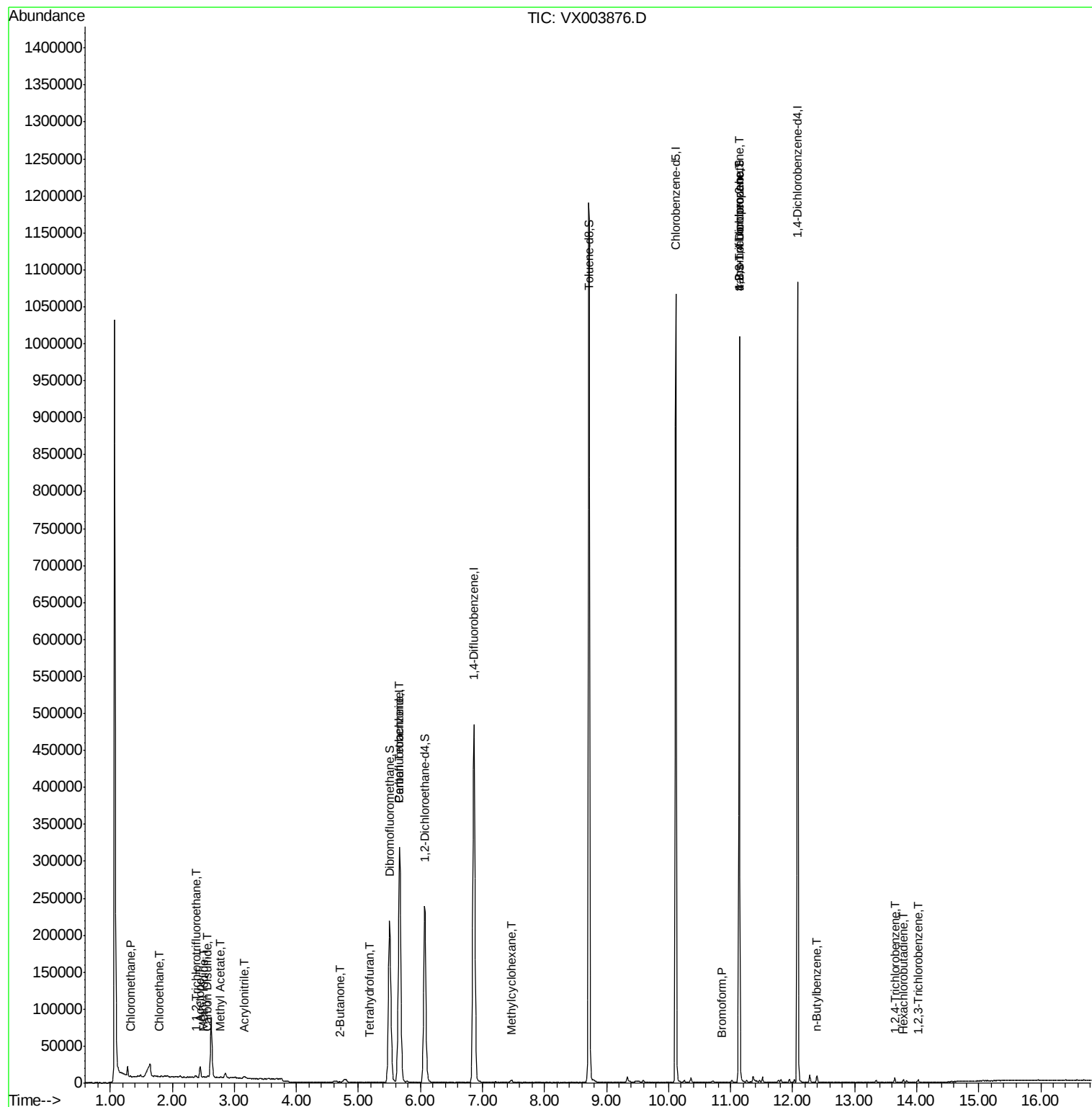
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1242	0.28	ug/l	# 74
5) Bromomethane	1.64	94	1196	Below Cal		# 78
6) Chloroethane	1.79	64	7166	2.52	ug/l	# 54
9) 1,1,2-Trichlorotrifluoroet	2.39	101	890	0.24	ug/l	# 87
10) Methyl Iodide	2.51	142	1246	0.27	ug/l	# 90
13) Acrolein	2.30	56	477	Below Cal		# 76
15) Acrylonitrile	3.15	53	879	0.36	ug/l	# 90
16) Acetone	2.45	43	16039	6.30	ug/l	# 99
17) Carbon Disulfide	2.57	76	3072	0.75	ug/l	# 98
18) Methyl Acetate	2.78	43	1336	0.24	ug/l	# 74
20) Methylene Chloride	2.86	84	3077	Below Cal		# 90
25) 2-Butanone	4.71	43	1492	0.39	ug/l	# 85
29) Tetrahydrofuran	5.17	42	558	0.28	ug/l	# 88
38) Carbon Tetrachloride	5.67	117	28691	5.37	ug/l	# 15
39) Methylcyclohexane	7.46	83	1491	0.23	ug/l	# 87
71) Bromoform	10.86	173	52	2.93	ug/l	# 28
76) 1,2,3-Trichloropropane	11.14	75	119266	23.58	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	11.14	75	119266	63.52	ug/l	# 9
88) 1,4-Dichlorobenzene	12.03	146	1521	Below Cal		# 97
89) n-Butylbenzene	12.39	91	2542	0.20	ug/l	# 95
93) 1,2,4-Trichlorobenzene	13.65	180	1802	0.30	ug/l	# 99
94) Hexachlorobutadiene	13.79	225	813	0.74	ug/l	# 95
96) 1,2,3-Trichlorobenzene	14.02	180	1226	0.21	ug/l	# 89

(#) = 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# 833

Delta R.T. 0.00 min

Lab File: VX003876.D

Acq: 07 Aug 2018 12:59

Instrument :

MSVOA_X

ClientSampleId :

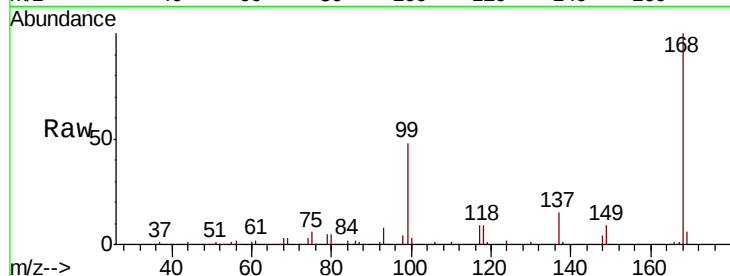
STORAGEBLANK-SOILREF-5

Tot Ion:168 Resp: 322912

Ion Ratio Lower Upper

168 100

99 48.5 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

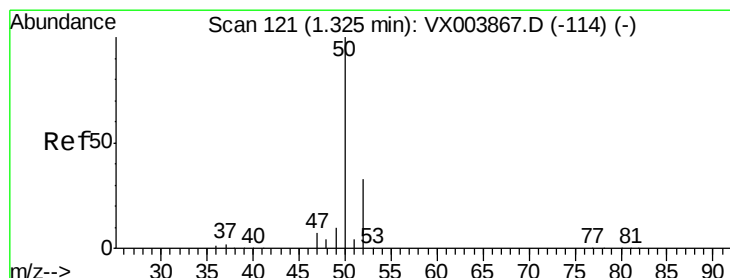
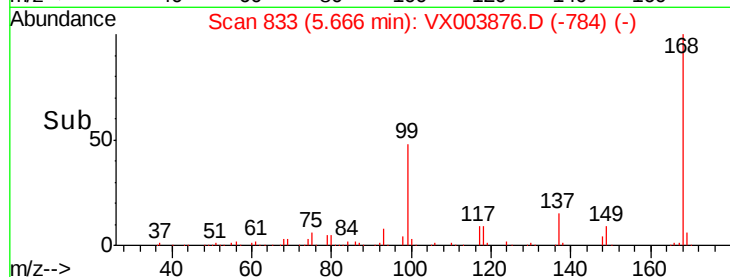
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.28 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003876.D

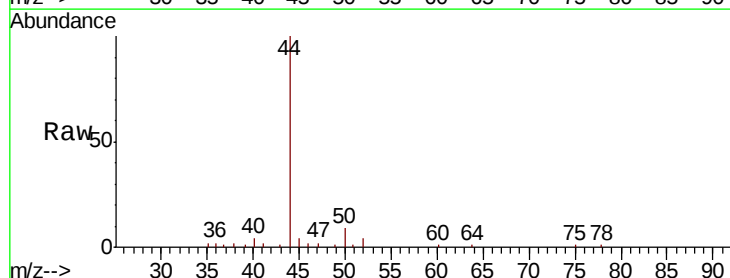
Acq: 07 Aug 2018 12:59

Tgt Ion: 50 Resp: 1242

Ion Ratio Lower Upper

50 100

52 48.1 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

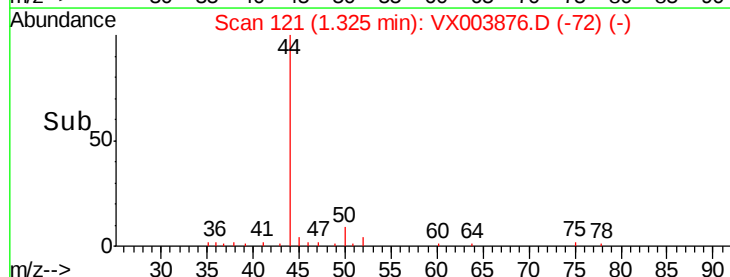
600

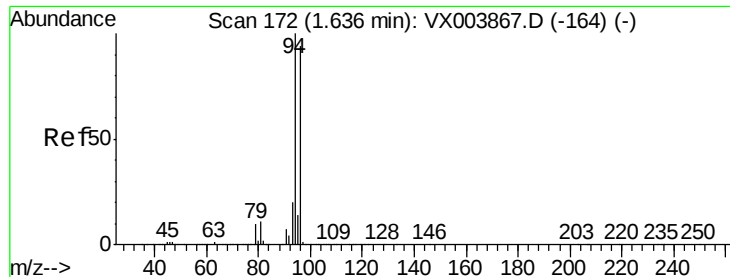
400

200

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX003876.D

Acq: 07 Aug 2018 12:59

Instrument :

MSVOA_X

ClientSampleId :

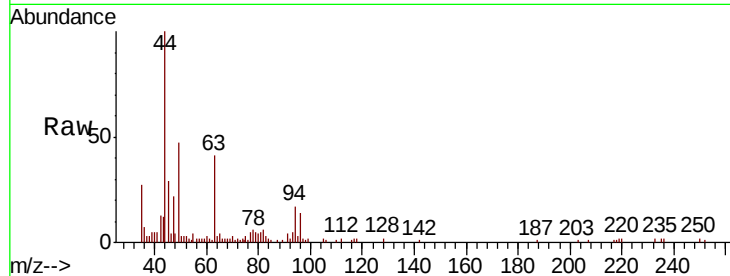
STORAGEBLANK-SOILREF-5

Tot Ion: 94 Resp: 1196

Ion Ratio Lower Upper

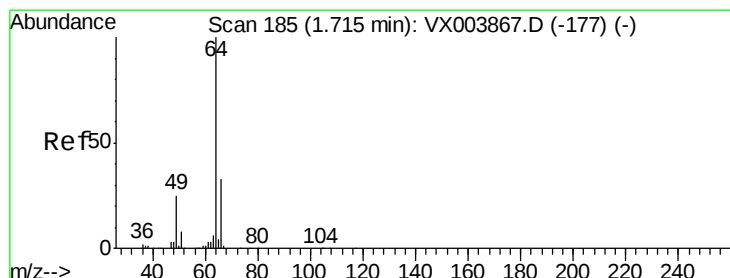
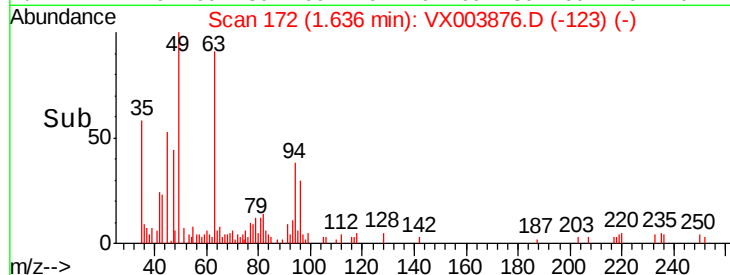
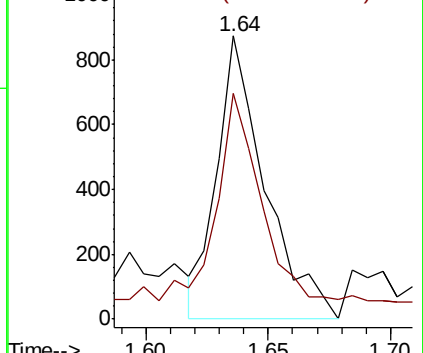
94 100

96 72.9 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 2.52 ug/l

RT: 1.79 min Scan# 198

Delta R.T. 0.08 min

Lab File: VX003876.D

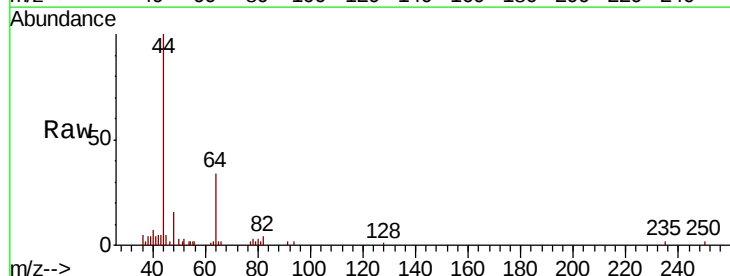
Acq: 07 Aug 2018 12:59

Tgt Ion: 64 Resp: 7166

Ion Ratio Lower Upper

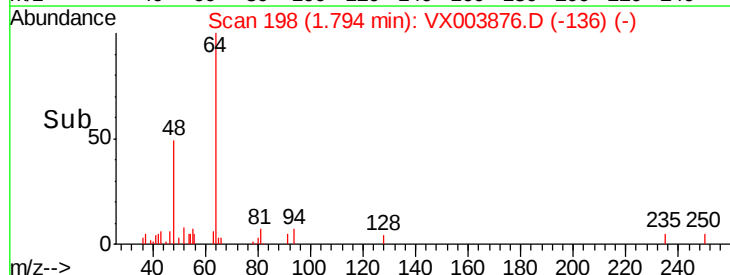
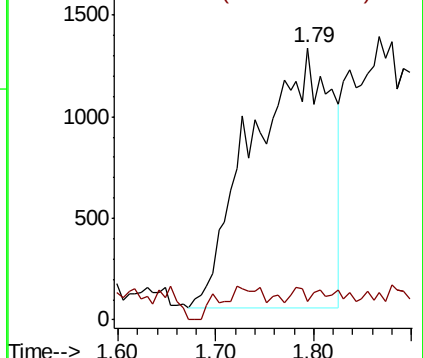
64 100

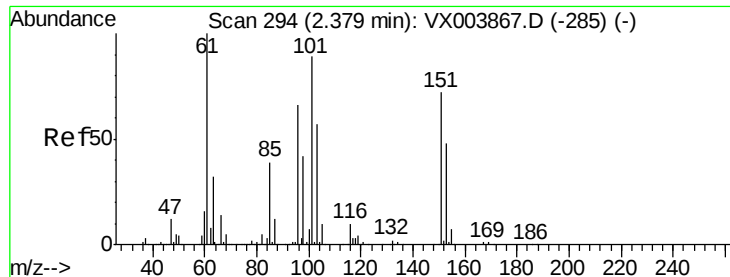
66 7.3 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.24 ug/l

RT: 2.39 min Scan# 295

Delta R.T. 0.01 min

Lab File: VX003876.D

Acq: 07 Aug 2018 12:59

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-5

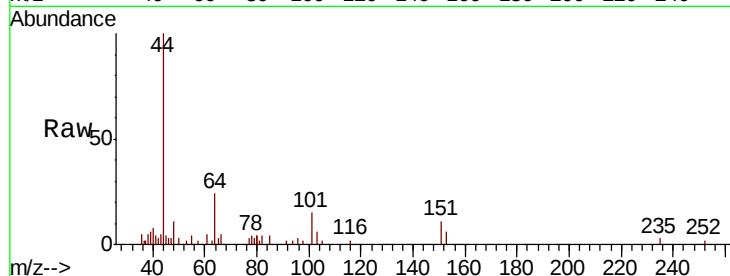
Tot Ion:101 Resp: 890

Ion Ratio Lower Upper

101 100

85 47.8 34.2 51.4

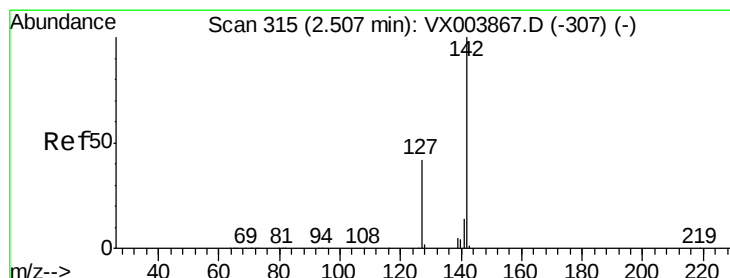
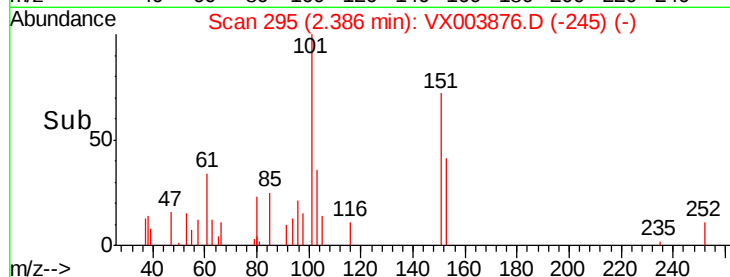
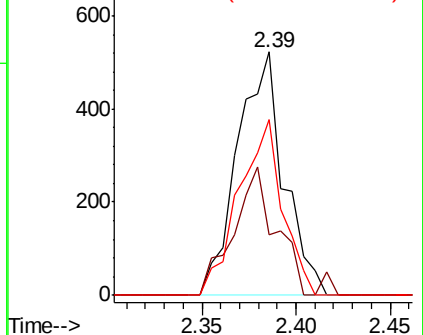
151 67.8 65.0 97.4



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 0.27 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.01 min

Lab File: VX003876.D

Acq: 07 Aug 2018 12:59

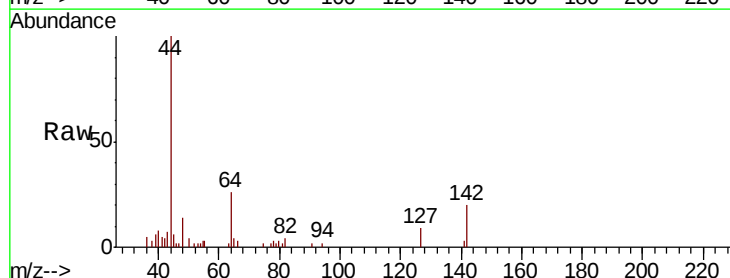
Tgt Ion:142 Resp: 1246

Ion Ratio Lower Upper

142 100

127 49.2 33.1 49.7

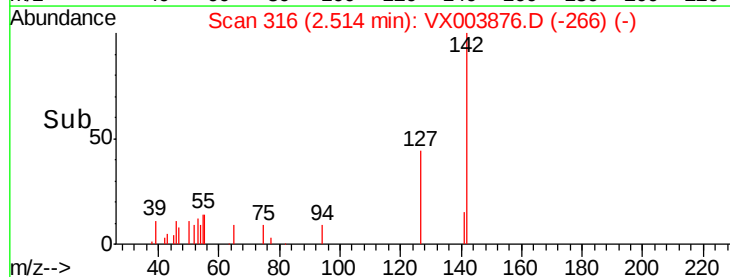
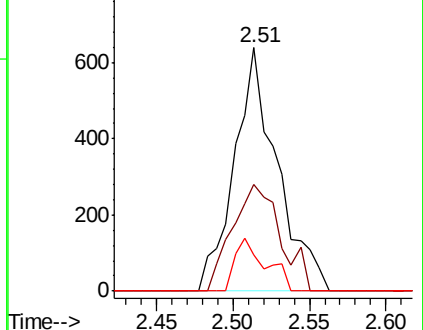
141 15.7 11.1 16.7

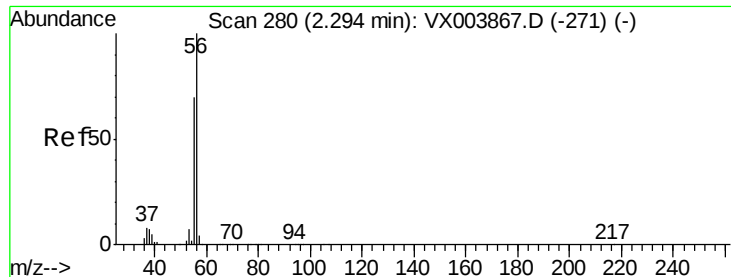


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#13

Acrolein

Concen: Below Cal

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX003876.D

Acq: 07 Aug 2018 12:59

Instrument :

MSVOA_X

ClientSampleId :

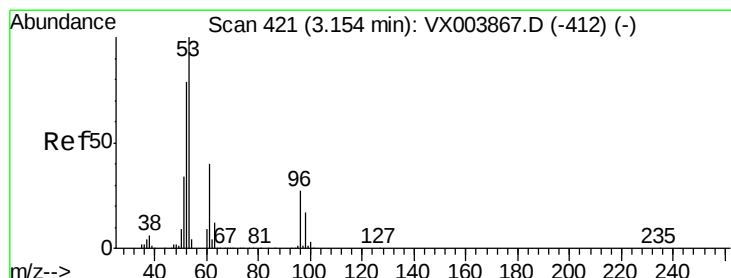
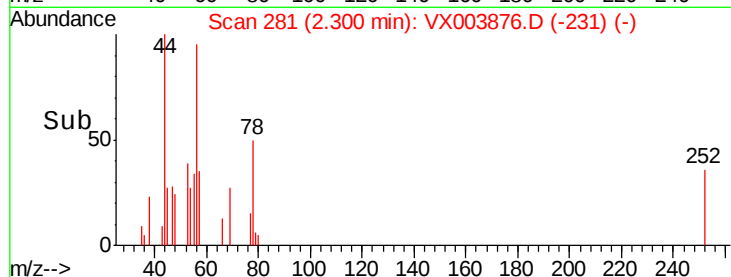
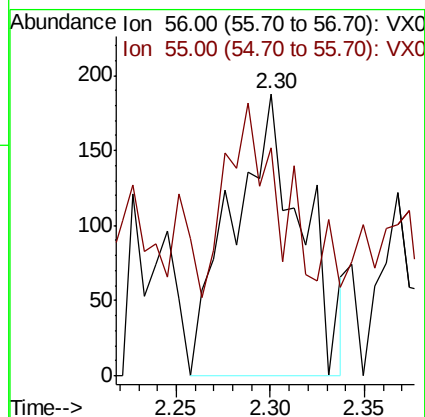
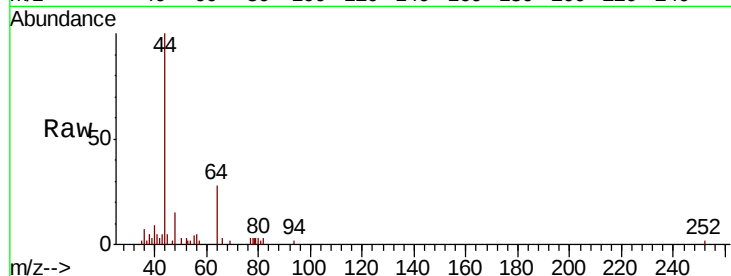
STORAGEBLANK-SOILREF-5

Tot Ion: 56 Resp: 477

Ion Ratio Lower Upper

56 100

55 50.3 56.1 84.1#



#15

Acrylonitrile

Concen: 0.36 ug/l

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX003876.D

Acq: 07 Aug 2018 12:59

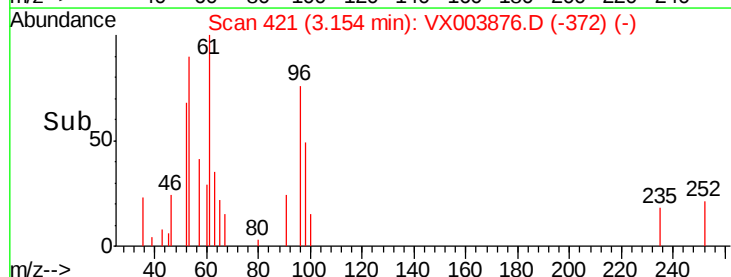
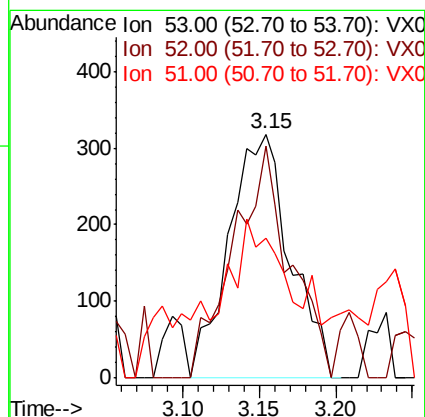
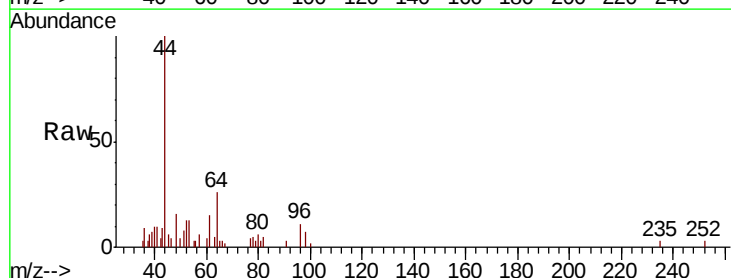
Tgt Ion: 53 Resp: 879

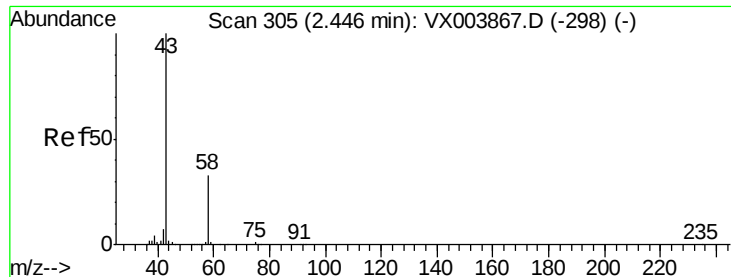
Ion Ratio Lower Upper

53 100

52 88.7 65.3 97.9

51 26.5 27.9 41.9#





#16

Acetone

Concen: 6.30 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003876.D

Acq: 07 Aug 2018 12:59

Instrument :

MSVOA_X

ClientSampleId :

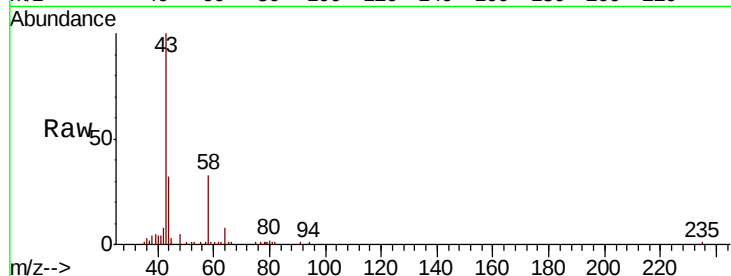
STORAGEBLANK-SOILREF-5

Tot Ion: 43 Resp: 16039

Ion Ratio Lower Upper

43 100

58 33.7 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

10000

8000

6000

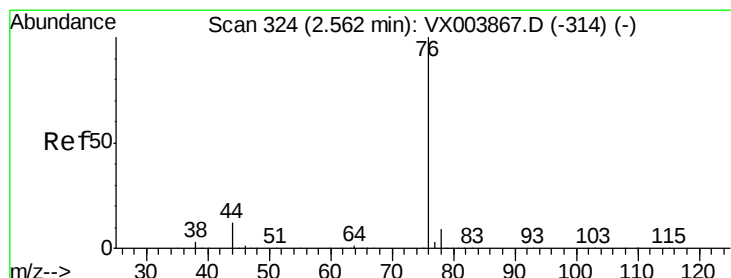
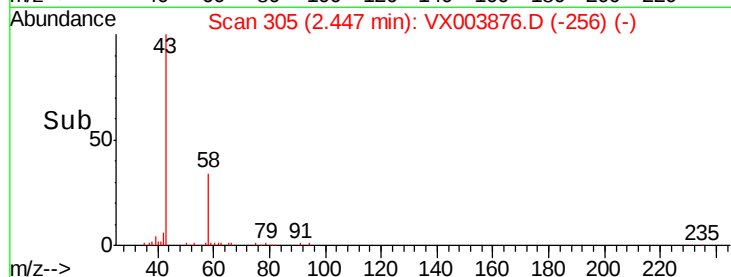
4000

2000

0

2.30 2.40 2.50

Time-->



#17

Carbon Disulfide

Concen: 0.75 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.01 min

Lab File: VX003876.D

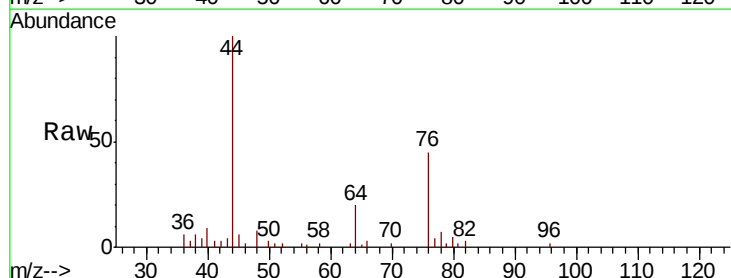
Acq: 07 Aug 2018 12:59

Tgt Ion: 76 Resp: 3072

Ion Ratio Lower Upper

76 100

78 8.6 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

1500

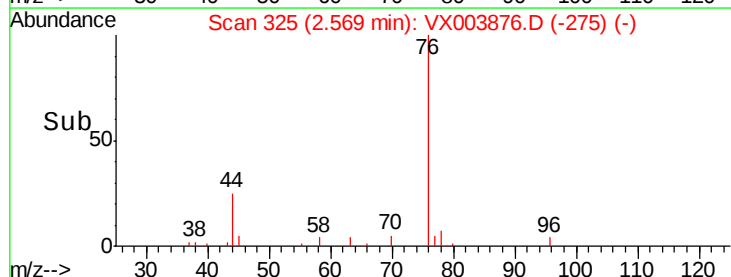
1000

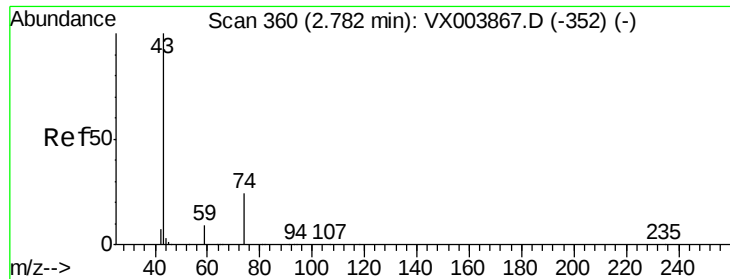
500

0

2.50 2.55 2.60 2.65

Time-->

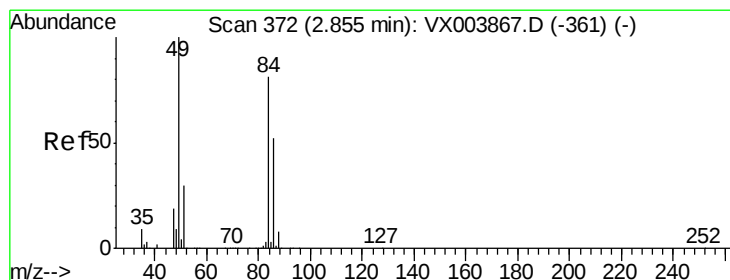
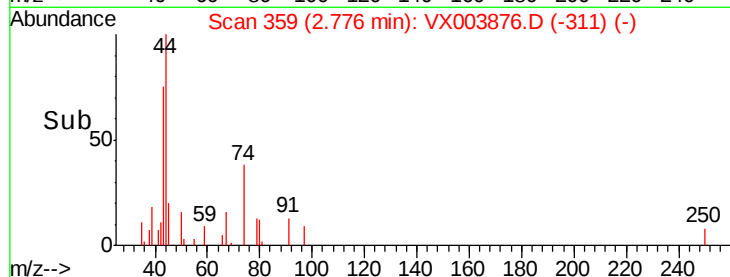
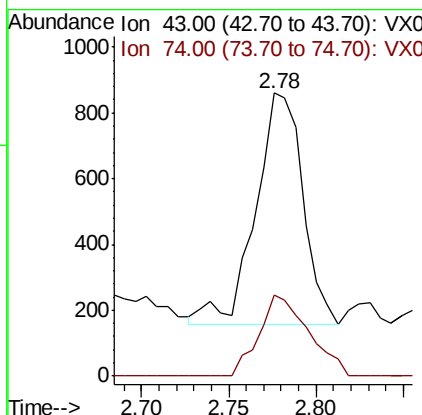
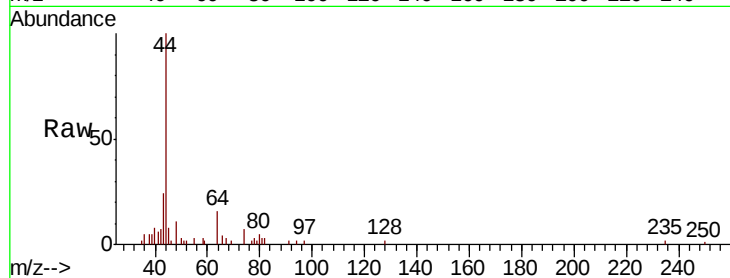




#18
Methyl Acetate
Concen: 0.24 ug/l
RT: 2.78 min Scan# 359
Delta R.T. -0.01 min
Lab File: VX003876.D
Acq: 07 Aug 2018 12:59

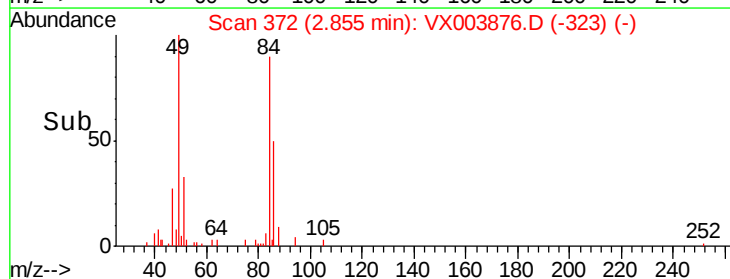
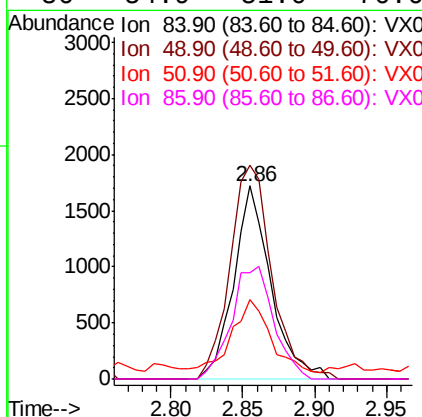
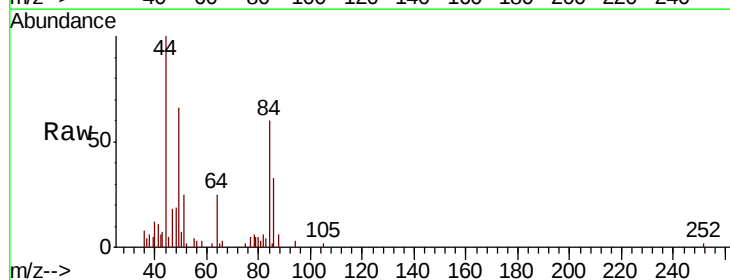
Instrument :
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STORAGEBLANK-SOILREF-5

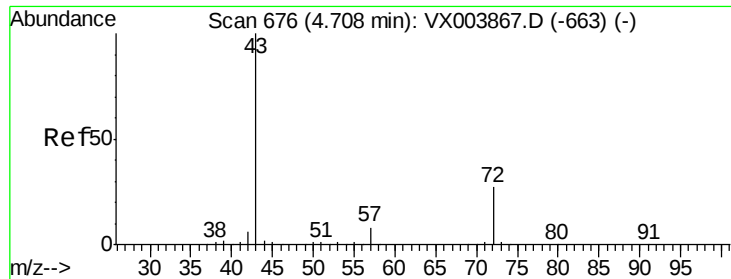
Tot Ion: 43 Resp: 1336
Ion Ratio Lower Upper
43 100
74 36.4 18.9 28.3#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX003876.D
Acq: 07 Aug 2018 12:59

Tgt Ion: 84 Resp: 3077
Ion Ratio Lower Upper
84 100
49 110.6 98.9 148.3
51 35.5 29.9 44.9
86 54.9 51.0 76.6





#25

2-Butanone

Concen: 0.39 ug/l

RT: 4.71 min Scan# 676

Delta R.T. 0.00 min

Lab File: VX003876.D

Acq: 07 Aug 2018 12:59

Instrument :

MSVOA_X

ClientSampleId :

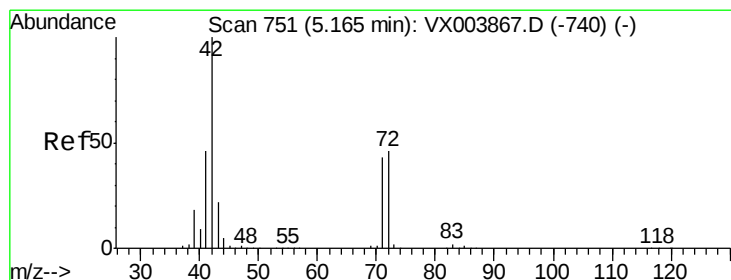
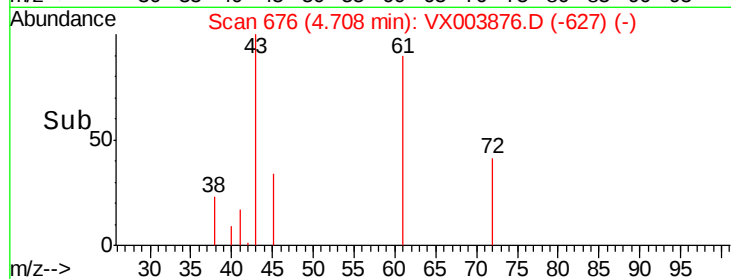
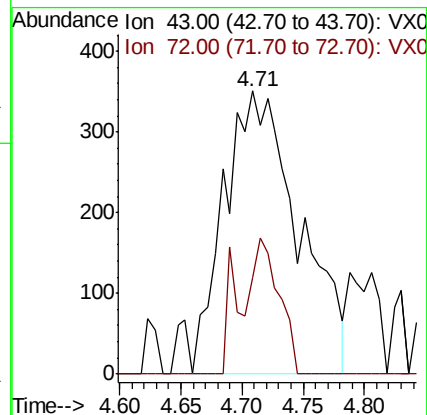
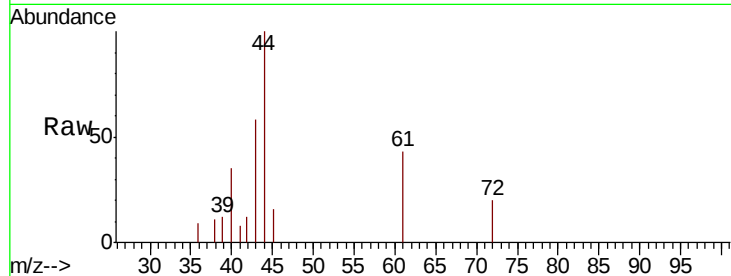
STORAGEBLANK-SOILREF-5

Tot Ion: 43 Resp: 1492

Ion Ratio Lower Upper

43 100

72 34.2 21.4 32.0#



#29

Tetrahydrofuran

Concen: 0.28 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX003876.D

Acq: 07 Aug 2018 12:59

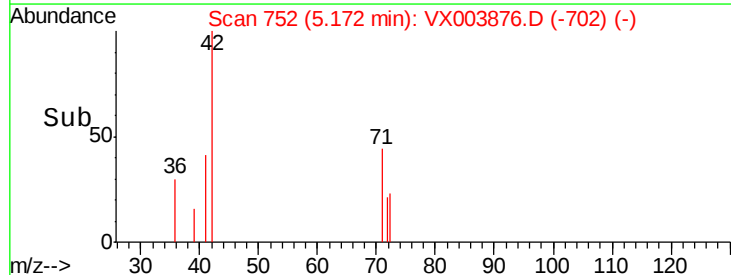
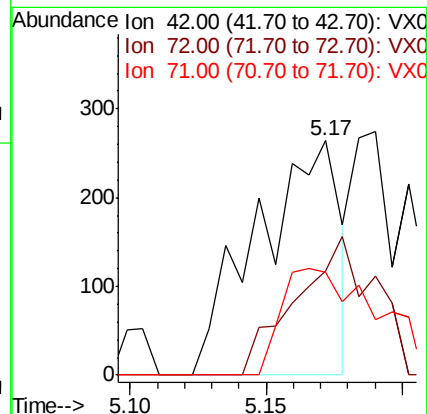
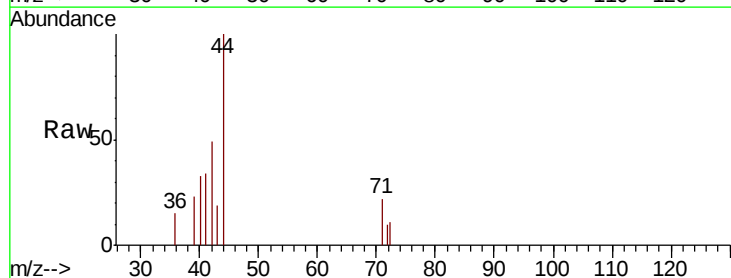
Tgt Ion: 42 Resp: 558

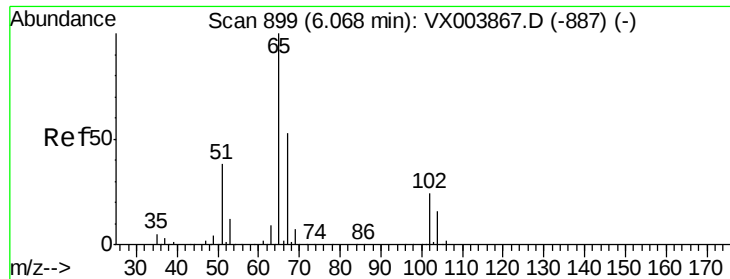
Ion Ratio Lower Upper

42 100

72 55.4 37.7 56.5

71 51.8 35.0 52.6

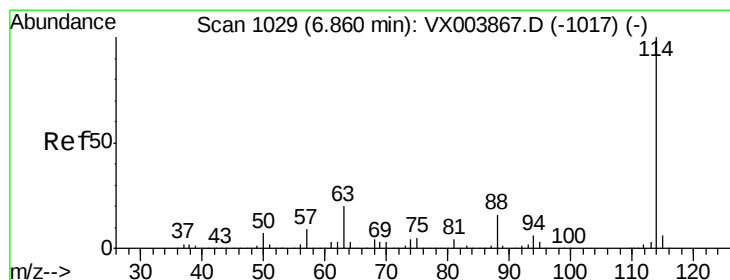
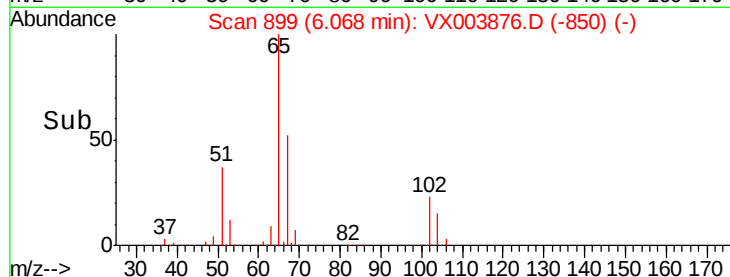
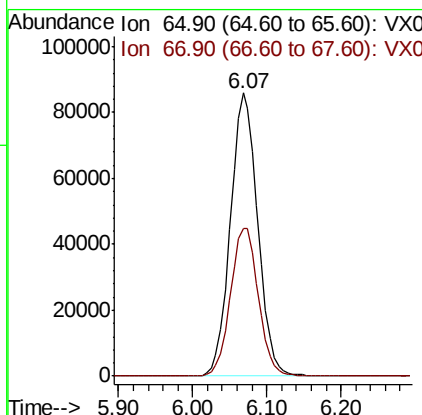
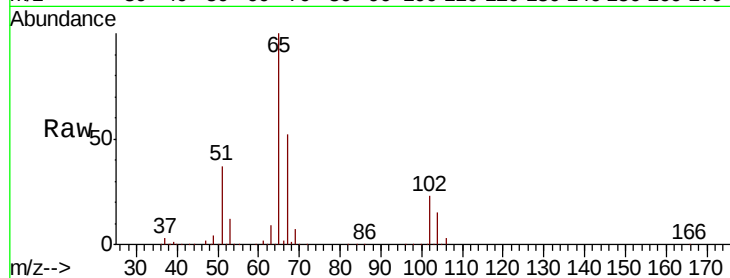




#33
 1,2-Dichloroethane-d4
 Concen: 51.39 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. 0.00 min
 Lab File: VX003876.D
 Acq: 07 Aug 2018 12:59

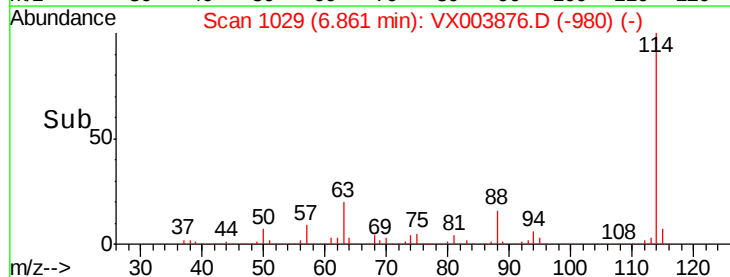
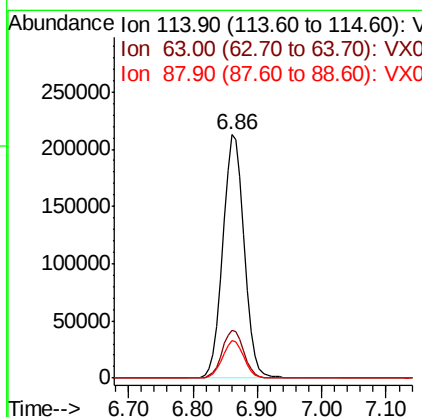
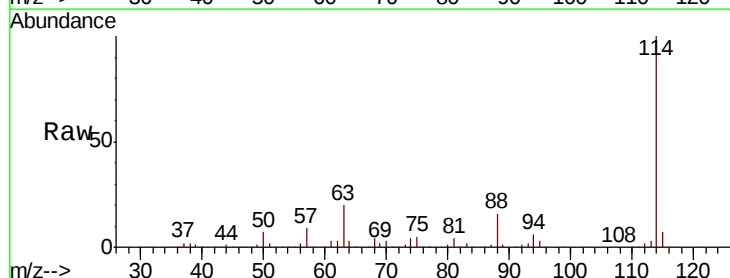
Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGEBLANK-SOILREF-5

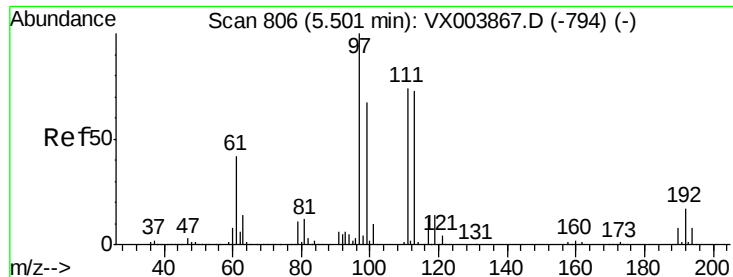
Tot Ion: 65 Resp: 219986
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. 0.00 min
 Lab File: VX003876.D
 Acq: 07 Aug 2018 12:59

Tgt Ion: 114 Resp: 500813
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.0
 88 15.6 0.0 32.0

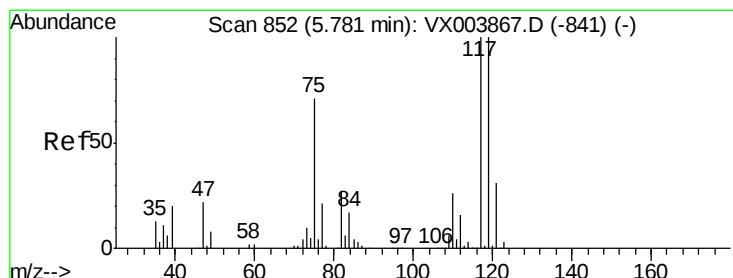
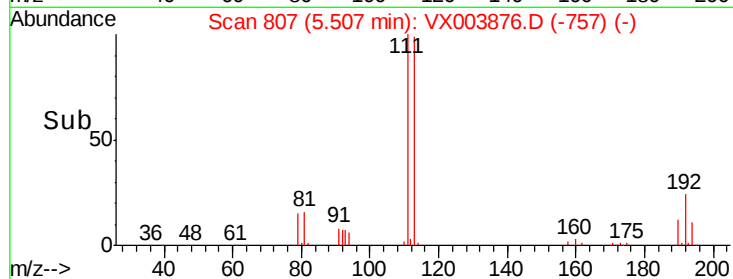
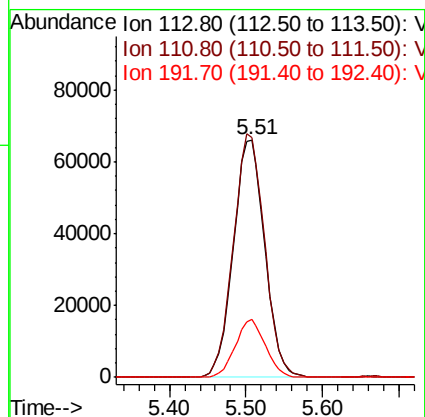
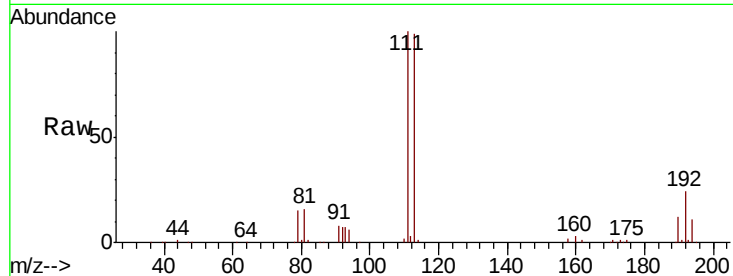




#35
Dibromofluoromethane
Concen: 49.47 ug/l
RT: 5.51 min Scan# 807
Delta R.T. 0.01 min
Lab File: VX003876.D
Acq: 07 Aug 2018 12:59

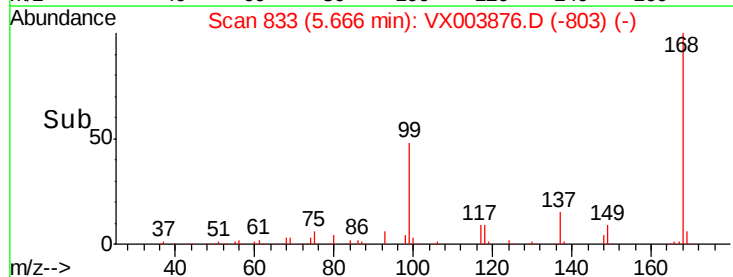
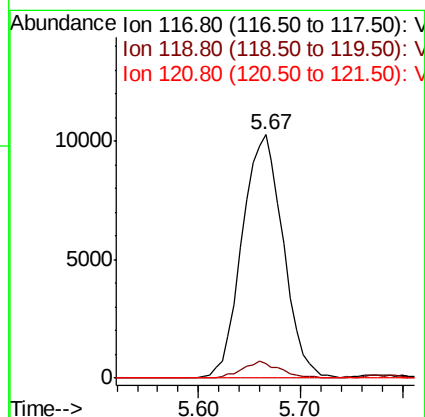
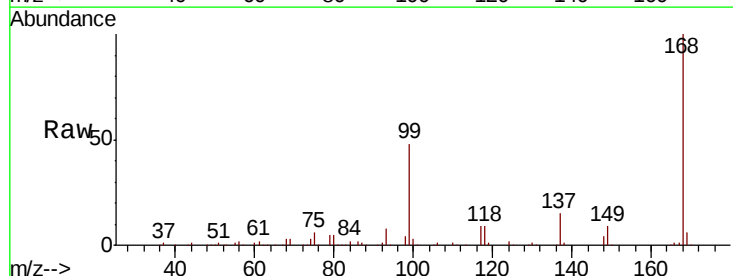
Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-SOILREF-5

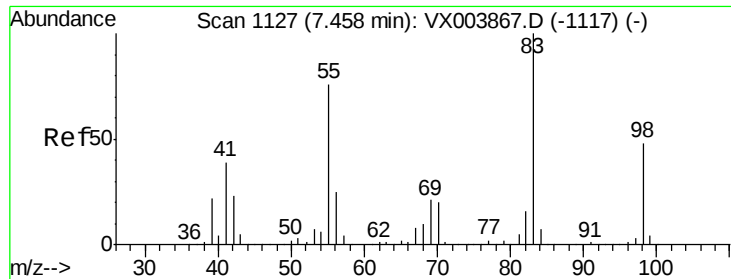
Tot Ion:113 Resp: 187690
Ion Ratio Lower Upper
113 100
111 102.0 82.0 123.0
192 23.5 19.0 28.4



#38
Carbon Tetrachloride
Concen: 5.37 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX003876.D
Acq: 07 Aug 2018 12:59

Tgt Ion:117 Resp: 28691
Ion Ratio Lower Upper
117 100
119 6.1 79.5 119.3#
121 0.0 25.0 37.4#

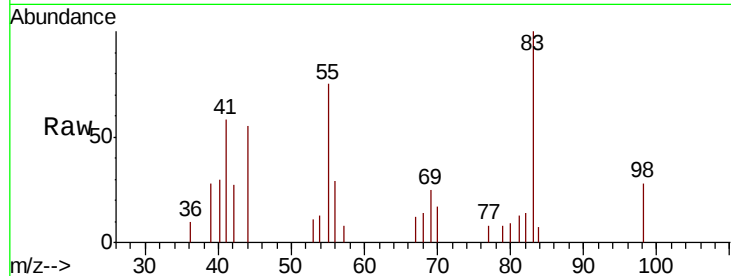




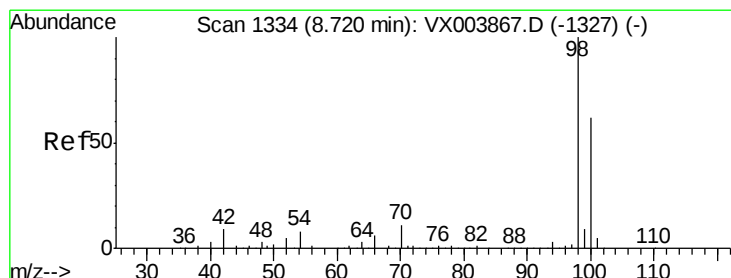
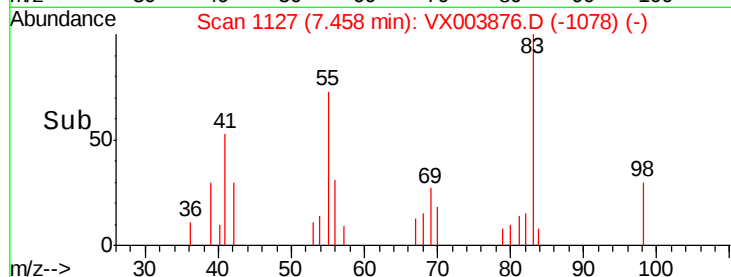
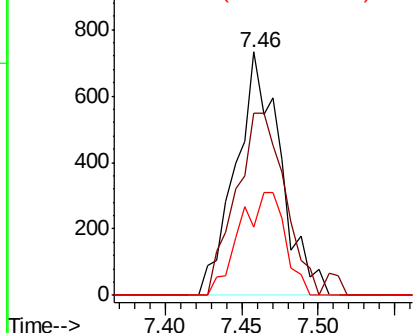
#39
Methvlcvclohexane
Concen: 0.23 ug/l
RT: 7.46 min Scan# 1127
Delta R.T. 0.00 min
Lab File: VX003876.D
Acq: 07 Aug 2018 12:59

Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-SOILREF-5

Tot Ion: 83 Resp: 1491
Ion Ratio Lower Upper
83 100
55 74.6 61.0 91.6
98 28.2 38.6 57.8#

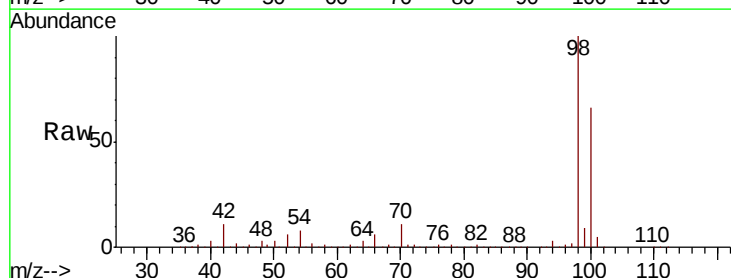


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

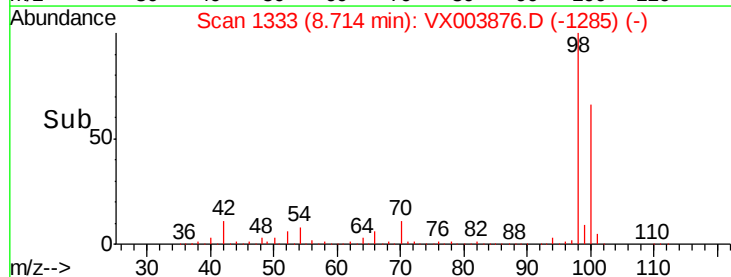
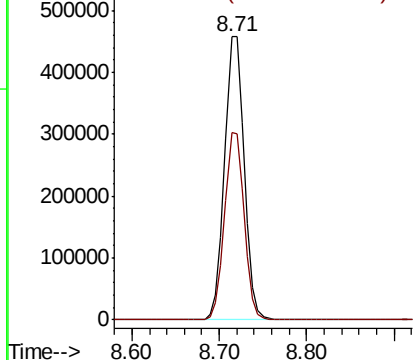


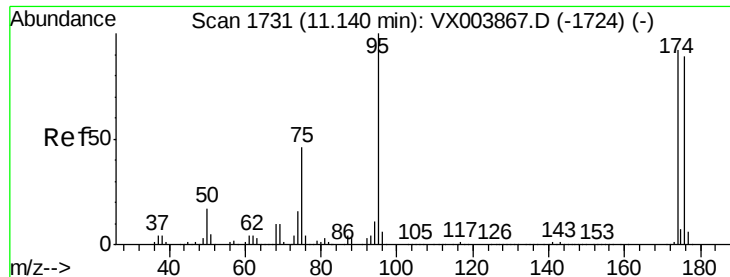
#50
Toluene-d8
Concen: 48.25 ug/l
RT: 8.71 min Scan# 1333
Delta R.T. -0.01 min
Lab File: VX003876.D
Acq: 07 Aug 2018 12:59

Tgt Ion: 98 Resp: 711872
Ion Ratio Lower Upper
98 100
100 66.0 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 51.94 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003876.D

Acq: 07 Aug 2018 12:59

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-5

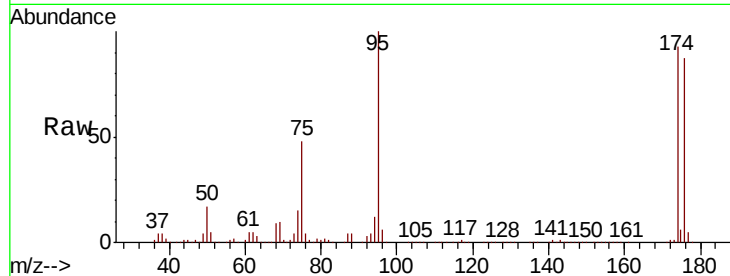
Tot Ion: 95 Resp: 247972

Ion Ratio Lower Upper

95 100

174 90.6 0.0 182.8

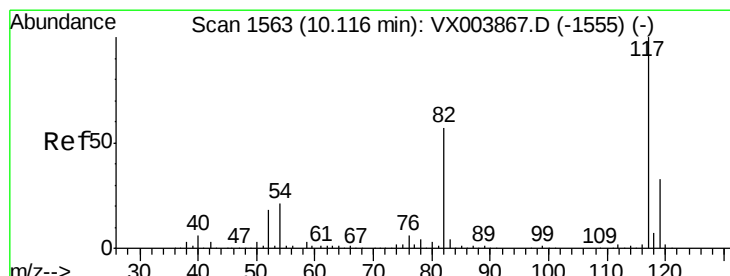
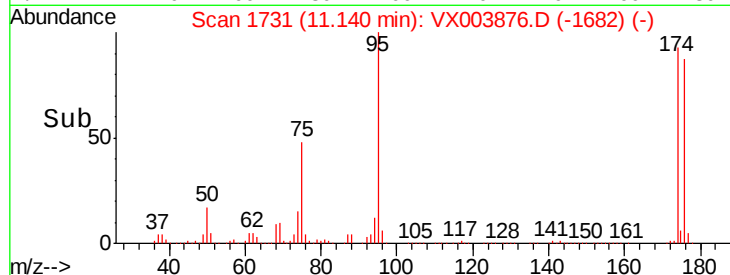
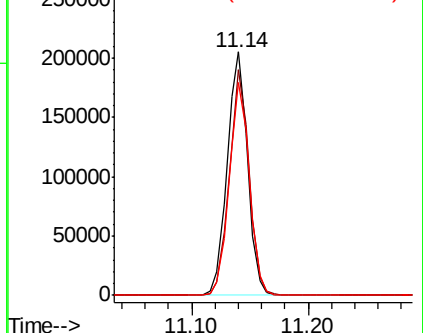
176 87.2 0.0 179.0



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: VX003876.D

Acq: 07 Aug 2018 12:59

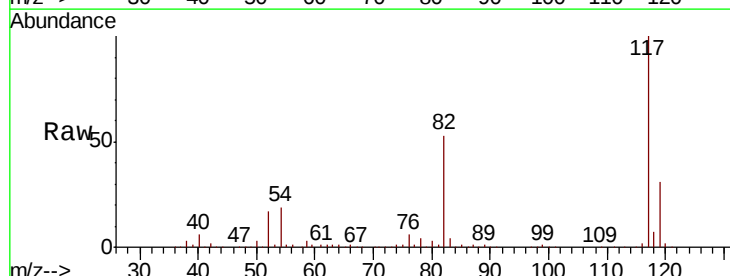
Tgt Ion: 117 Resp: 479824

Ion Ratio Lower Upper

117 100

82 53.0 45.4 68.0

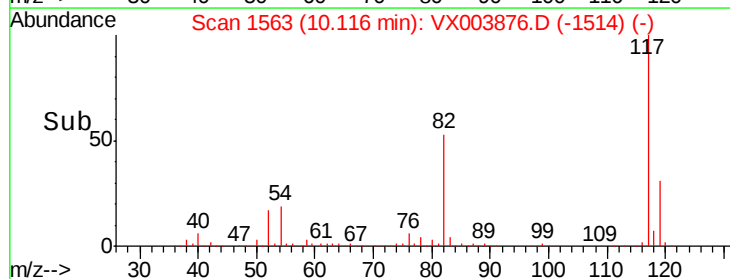
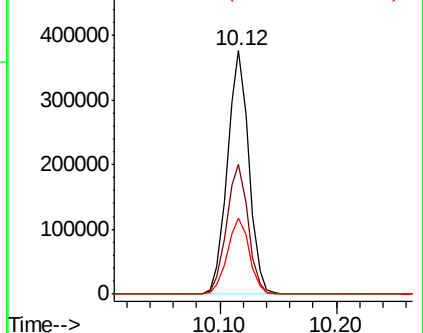
119 31.2 26.6 40.0

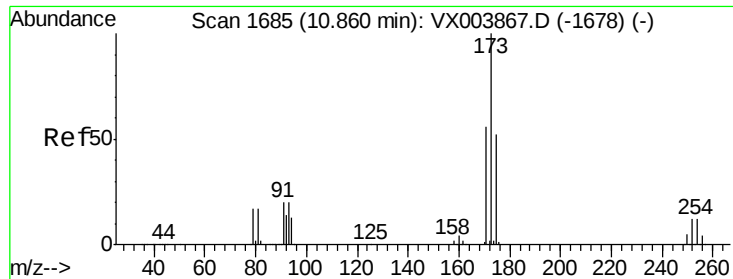


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#71

Bromoform

Concen: 2.93 ug/l

RT: 10.86 min Scan# 1685

Delta R.T. 0.00 min

Lab File: VX003876.D

Acq: 07 Aug 2018 12:59

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-5

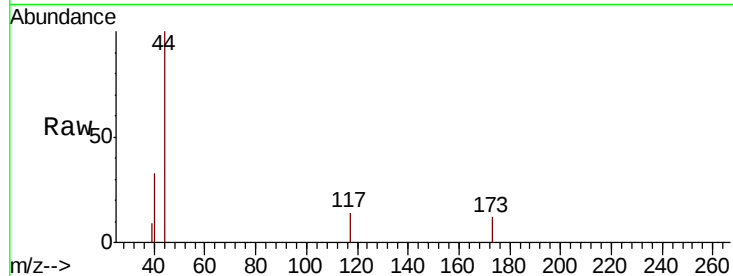
Tot Ion:173 Resp: 52

Ion Ratio Lower Upper

173 100

175 0.0 24.9 74.7#

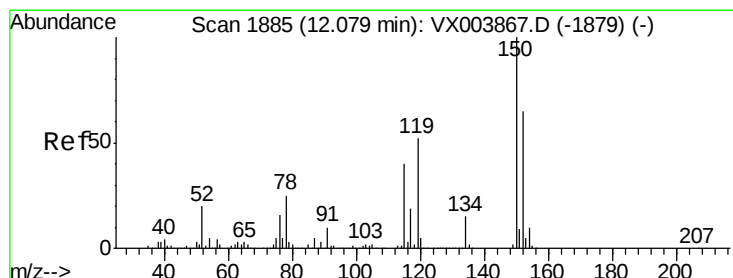
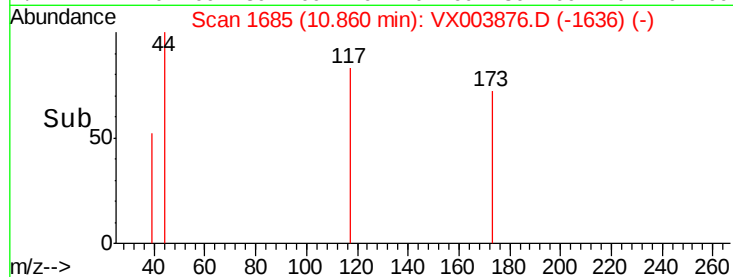
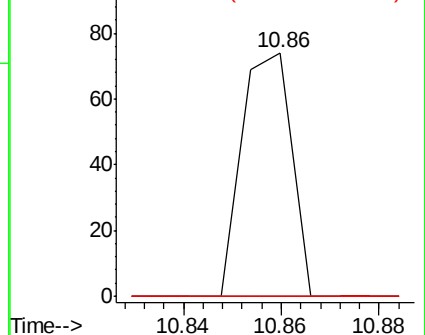
254 0.0 0.2 0.2#



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: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003876.D

Acq: 07 Aug 2018 12:59

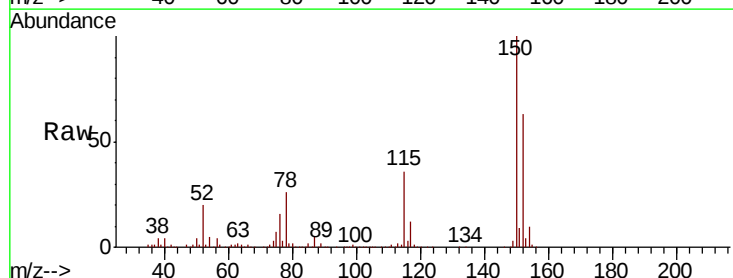
Tgt Ion:152 Resp: 228971

Ion Ratio Lower Upper

152 100

115 54.5 39.1 117.3

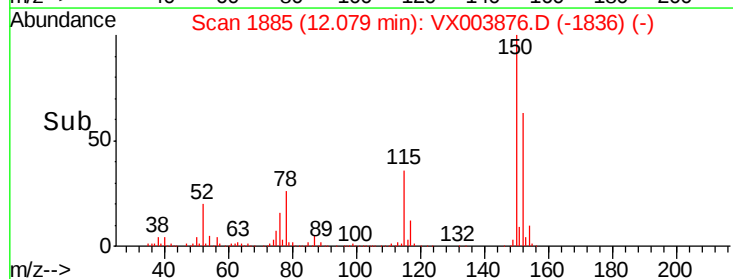
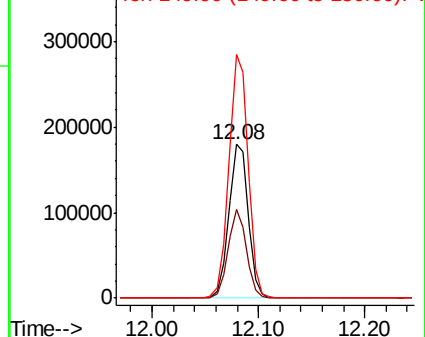
150 157.4 0.0 349.2

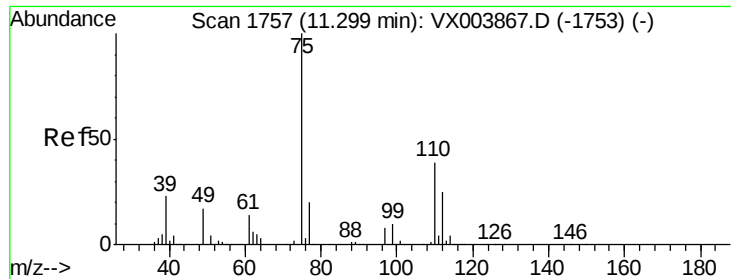


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.58 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003876.D

Acq: 07 Aug 2018 12:59

Instrument :

MSVOA_X

ClientSampleId :

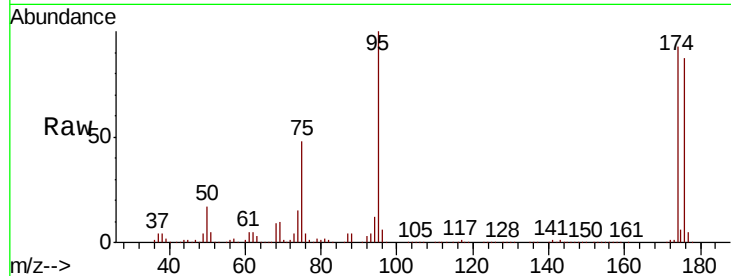
STORAGEBLANK-SOILREF-5

Tot Ion: 75 Resp: 119266

Ion Ratio Lower Upper

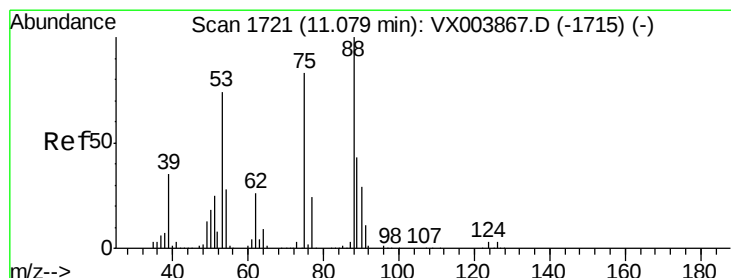
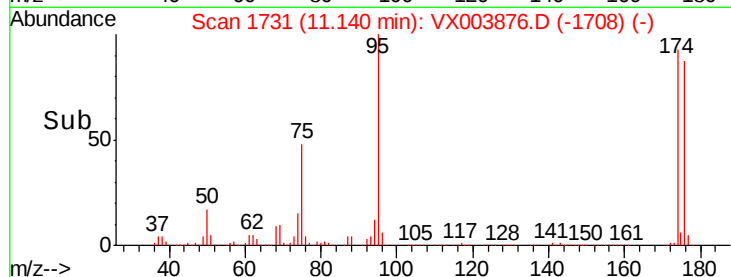
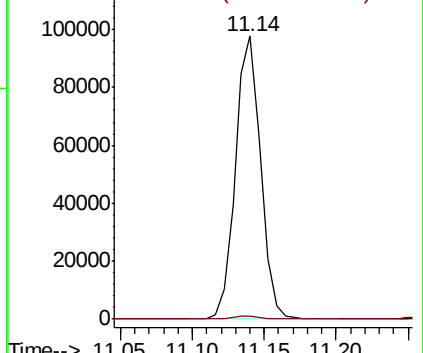
75 100

77 1.4 20.8 62.5#



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: 63.52 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003876.D

Acq: 07 Aug 2018 12:59

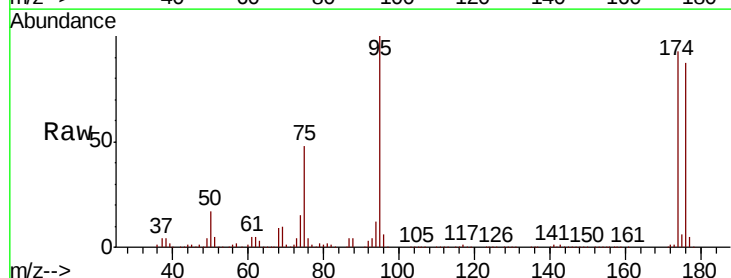
Tgt Ion: 75 Resp: 119266

Ion Ratio Lower Upper

75 100

53 0.2 80.3 120.5#

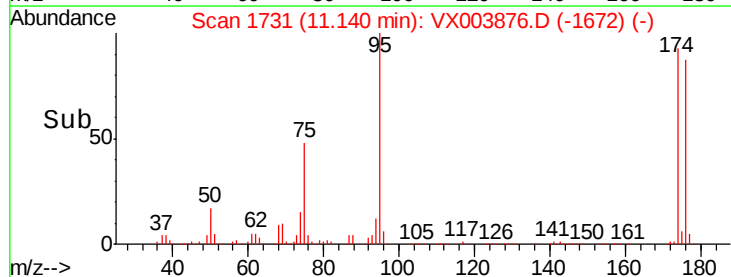
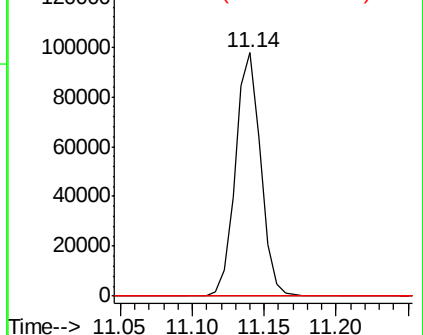
89 0.0 37.8 56.8#

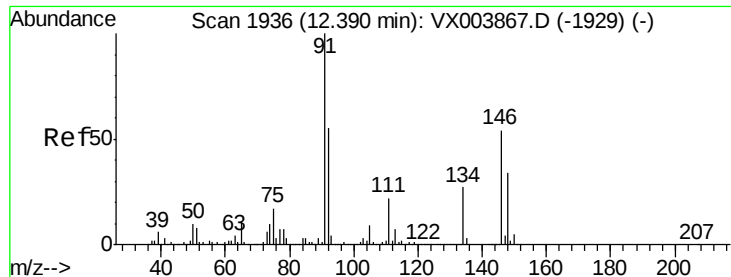


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

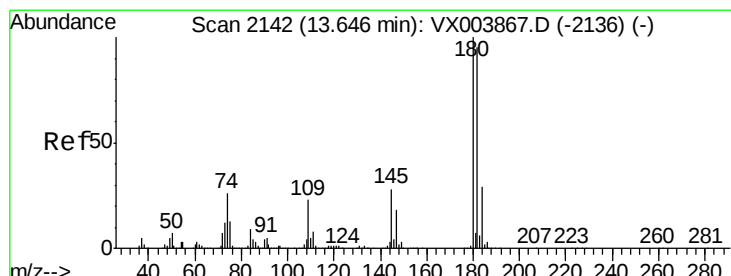
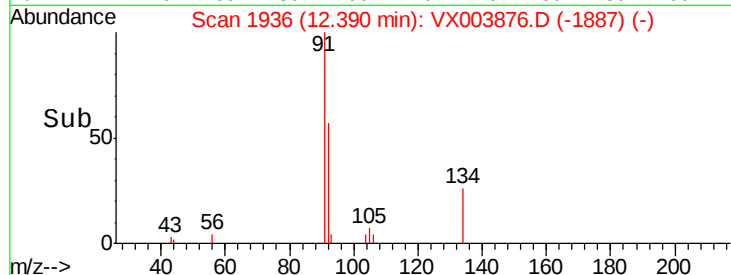
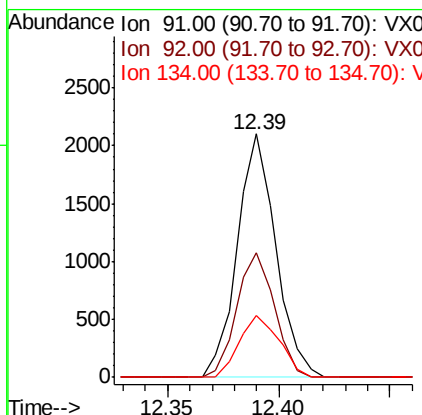
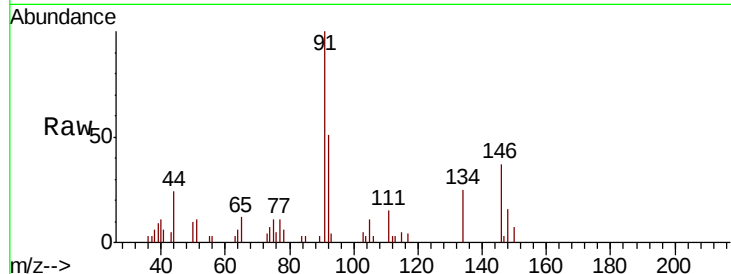




#89
n-Butylbenzene
Concen: 0.20 ug/l
RT: 12.39 min Scan# 1936
Delta R.T. 0.00 min
Lab File: VX003876.D
Acq: 07 Aug 2018 12:59

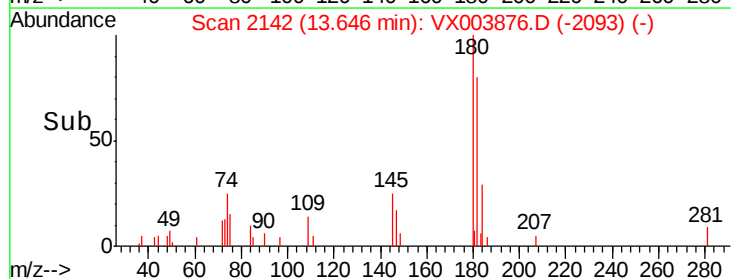
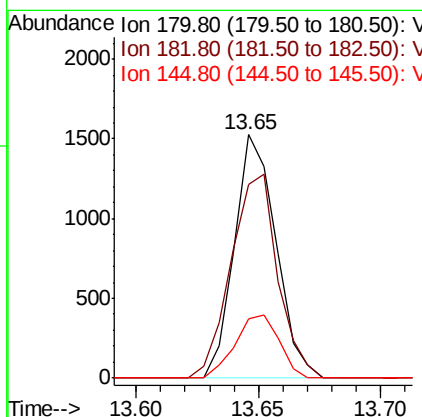
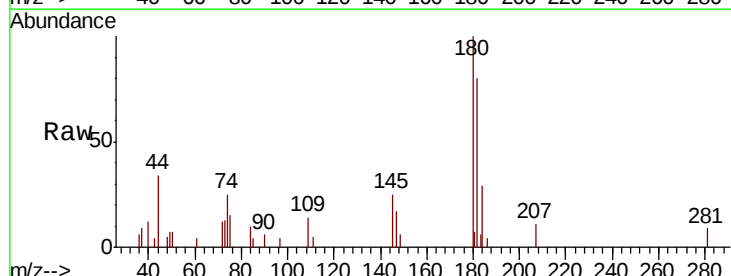
Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-SOILREF-5

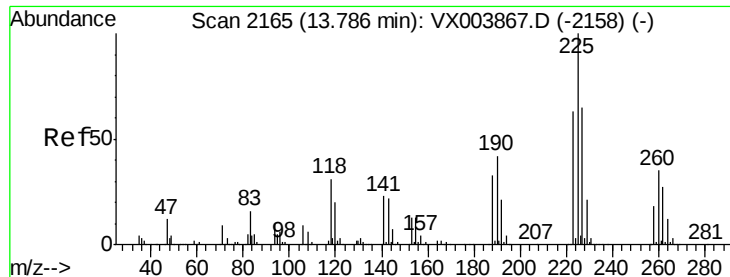
Tot Ion: 91 Resp: 2542
Ion Ratio Lower Upper
91 100
92 49.8 27.1 81.3
134 26.1 13.6 40.7



#93
1,2,4-Trichlorobenzene
Concen: 0.30 ug/l
RT: 13.65 min Scan# 2142
Delta R.T. 0.00 min
Lab File: VX003876.D
Acq: 07 Aug 2018 12:59

Tgt Ion: 180 Resp: 1802
Ion Ratio Lower Upper
180 100
182 94.2 47.7 143.1
145 27.3 13.9 41.6





#94

Hexachlorobutadiene

Concen: 0.74 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VX003876.D

Acq: 07 Aug 2018 12:59

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-5

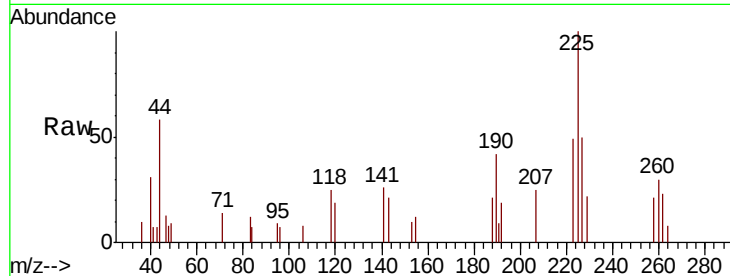
Tot Ion:225 Resp: 813

Ion Ratio Lower Upper

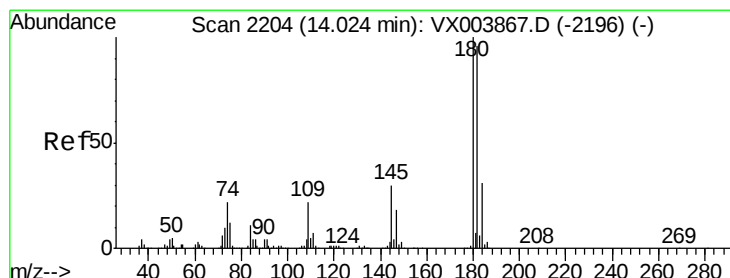
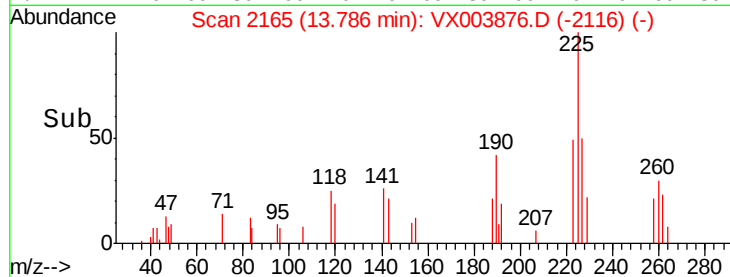
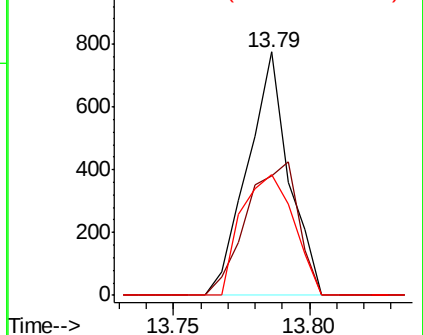
225 100

223 68.9 31.4 94.0

227 63.2 32.1 96.5



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: VX003876.D

Acq: 07 Aug 2018 12:59

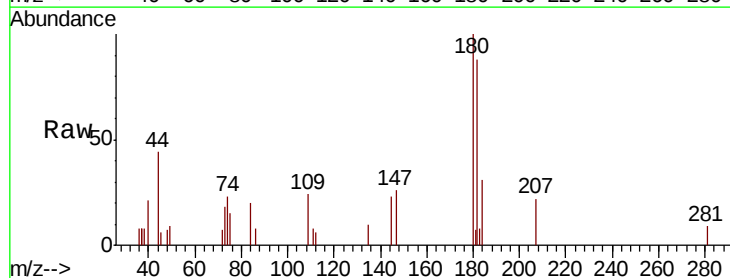
Tgt Ion:180 Resp: 1226

Ion Ratio Lower Upper

180 100

182 84.7 48.1 144.4

145 25.3 14.9 44.7



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

