

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060818\
 Data File : VX002408.D
 Acq On : 08 Jun 2018 18:04
 Operator : JC/MD
 Sample : J3407-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE BLANK-SOILREF-6

Quant Time: Jun 09 01:50:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 05 03:22:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	219252	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	319715	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	291486	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	158804	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	153629	48.93	ug/l	0.00
Spiked Amount			Recovery	=	97.86%	
35) Dibromofluoromethane	5.51	113	115632	45.99	ug/l	0.00
Spiked Amount			Recovery	=	91.98%	
50) Toluene-d8	8.72	98	455742	47.29	ug/l	0.00
Spiked Amount			Recovery	=	94.58%	
62) 4-Bromofluorobenzene	11.14	95	157198	42.30	ug/l	0.00
Spiked Amount			Recovery	=	84.60%	

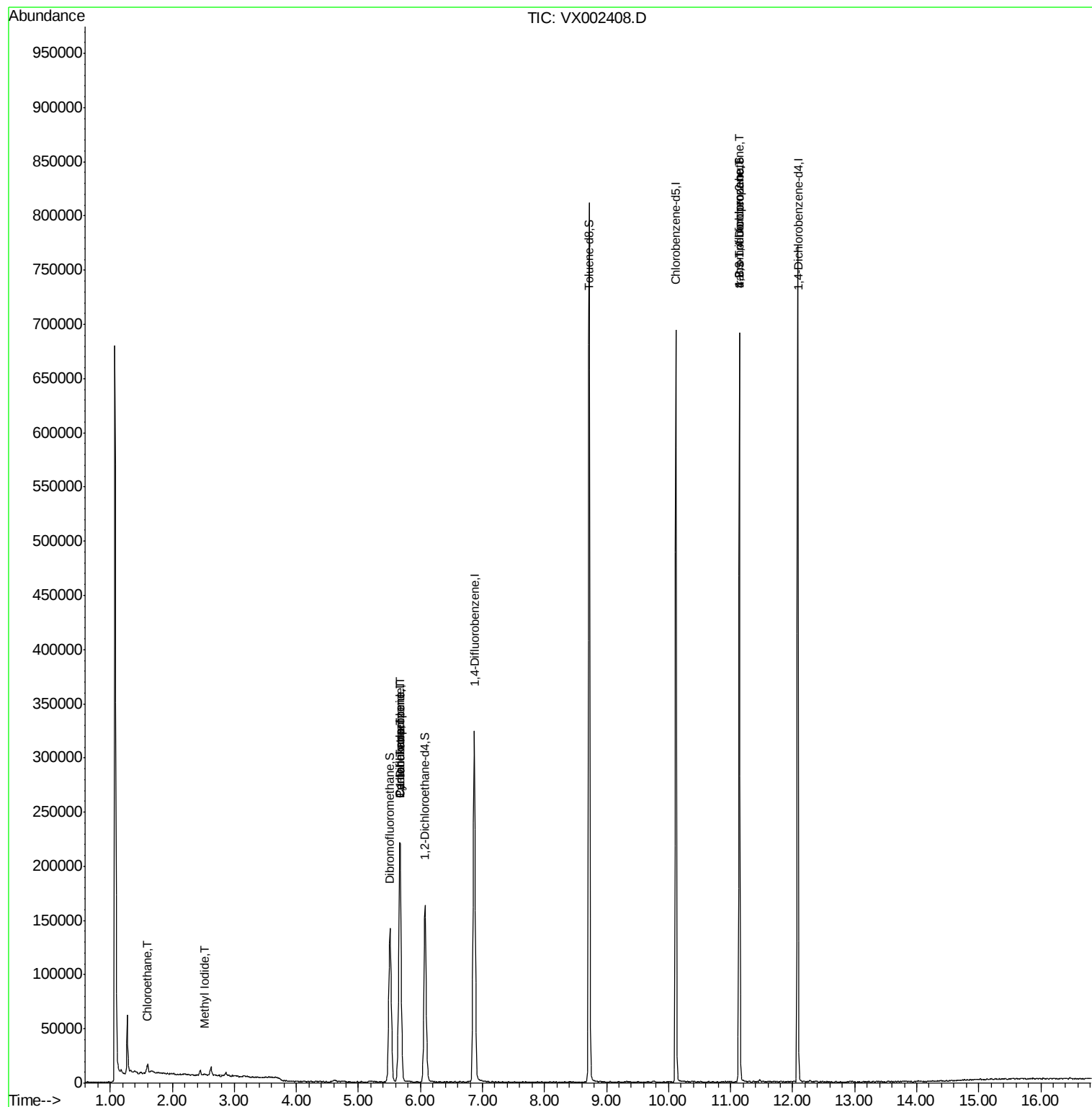
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	714	Below Cal	#	69
5) Bromomethane	1.65	94	1480	Below Cal		97
6) Chloroethane	1.59	64	2127	1.14	ug/l	# 46
8) Diethyl Ether	2.26	74	79	Below Cal		82
10) Methyl Iodide	2.52	142	1812	0.55	ug/l	# 89
11) Tert butyl alcohol	3.06	59	92	Below Cal	#	1
13) Acrolein	2.31	56	98	Below Cal	#	14
15) Acrylonitrile	3.15	53	96	Below Cal	#	1
16) Acetone	2.45	43	5029	Below Cal		99
18) Methyl Acetate	2.79	43	536	Below Cal		98
19) Methyl tert-butyl Ether	3.20	73	28	Below Cal	#	1
20) Methylene Chloride	2.86	84	999	Below Cal	#	79
22) Diisopropyl ether	3.87	45	104	Below Cal	#	35
28) Bromochloromethane	5.03	49	69	Below Cal	#	13
31) Cyclohexane	5.67	56	4566	1.15	ug/l	# 1
36) 1,1-Dichloropropene	5.66	75	15262	4.54	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	20439	5.81	ug/l	# 15
76) 1,2,3-Trichloropropane	11.14	75	85238	24.46	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	85238	85.75	ug/l	# 6

(#) = 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. -0.00 min

Lab File: VX002408.D

Acq: 08 Jun 2018 18:04

Instrument :

MSVOA_X

ClientSampleId :

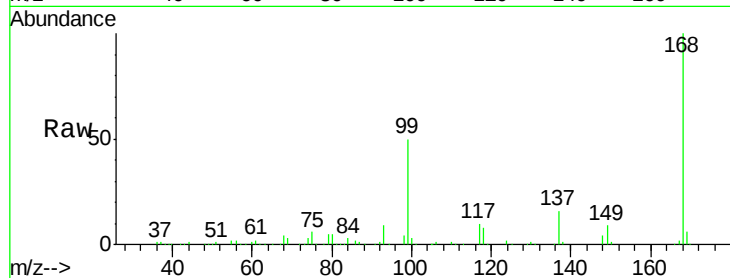
STORAGEBLANK-SOILREF-6

Tot Ion:168 Resp: 219252

Ion Ratio Lower Upper

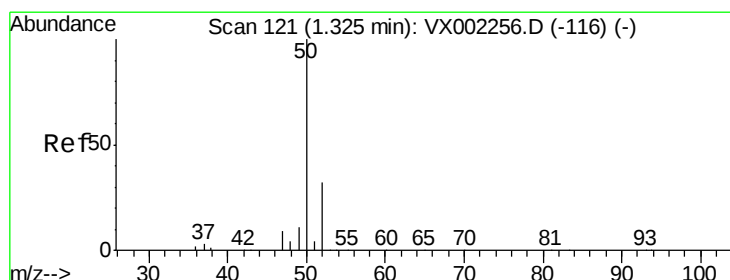
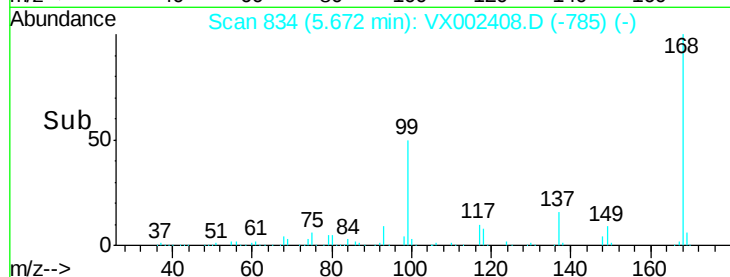
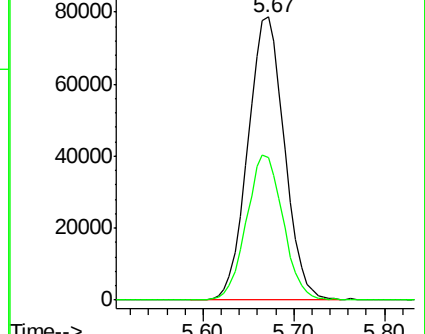
168 100

99 50.4 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002408.D

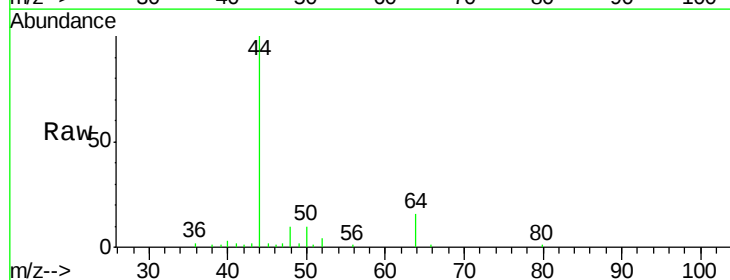
Acq: 08 Jun 2018 18:04

Tgt Ion: 50 Resp: 714

Ion Ratio Lower Upper

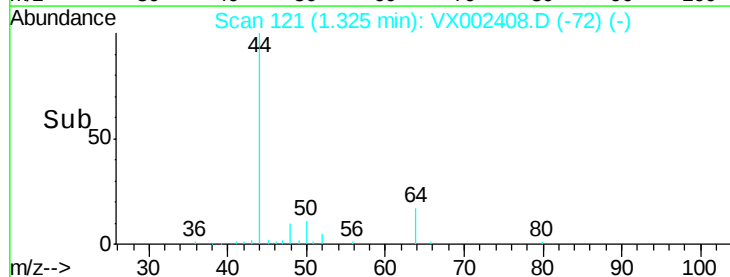
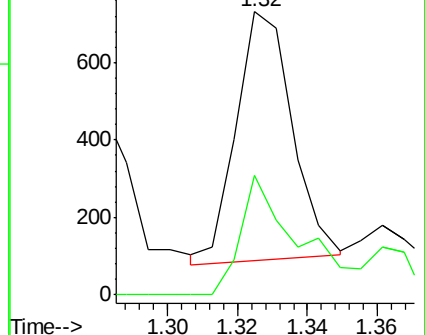
50 100

52 49.5 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002408.D

Acq: 08 Jun 2018 18:04

Instrument :

MSVOA_X

ClientSampleId :

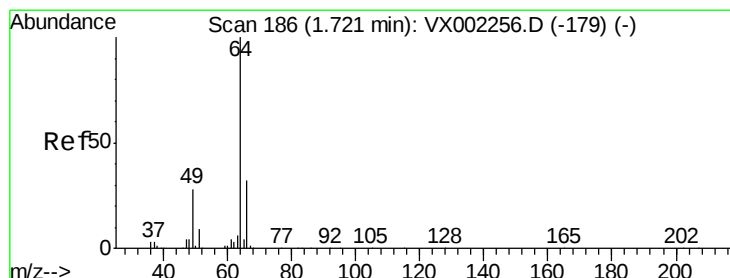
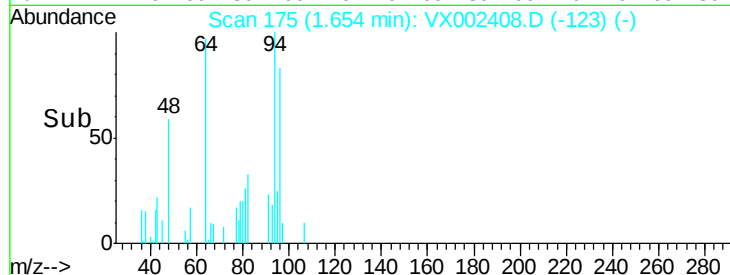
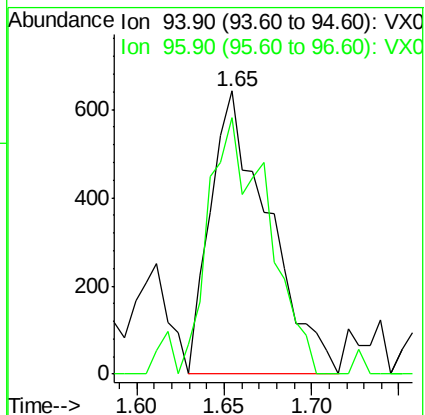
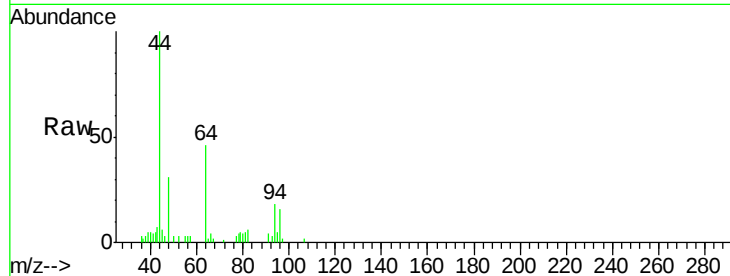
STORAGEBLANK-SOILREF-6

Tot Ion: 94 Resp: 1480

Ion Ratio Lower Upper

94 100

96 90.7 74.9 112.3



#6

Chloroethane

Concen: 1.14 ug/l

RT: 1.59 min Scan# 165

Delta R.T. -0.13 min

Lab File: VX002408.D

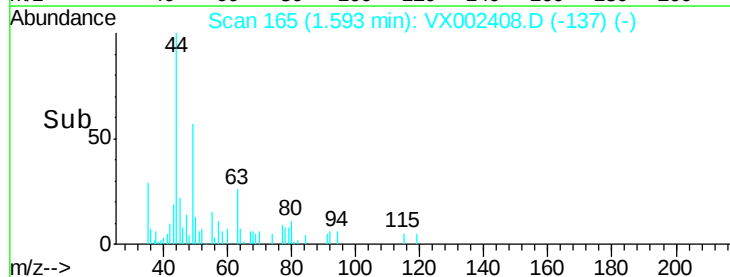
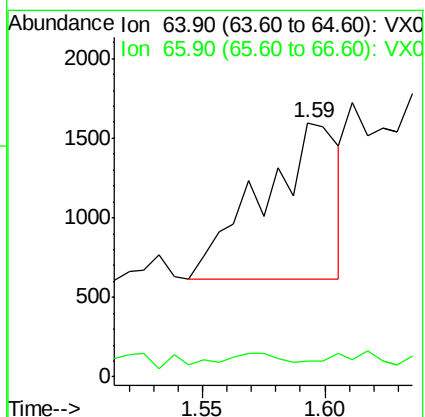
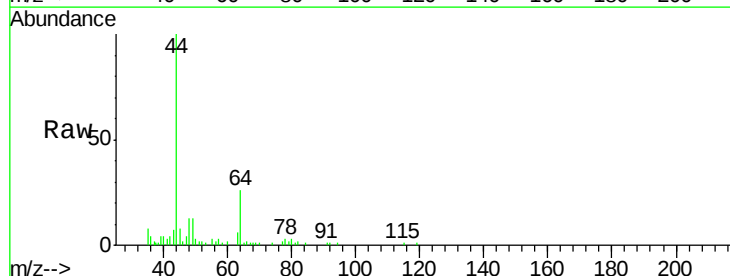
Acq: 08 Jun 2018 18:04

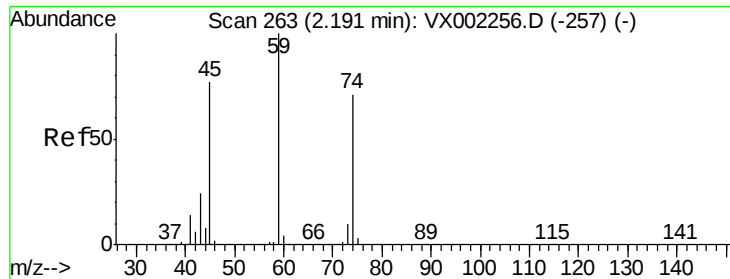
Tgt Ion: 64 Resp: 2127

Ion Ratio Lower Upper

64 100

66 1.7 25.5 38.3#





#8

Diethyl Ether

Concen: Below Cal

RT: 2.26 min Scan# 274

Delta R.T. 0.07 min

Lab File: VX002408.D

Acq: 08 Jun 2018 18:04

Instrument :

MSVOA_X

ClientSampleId :

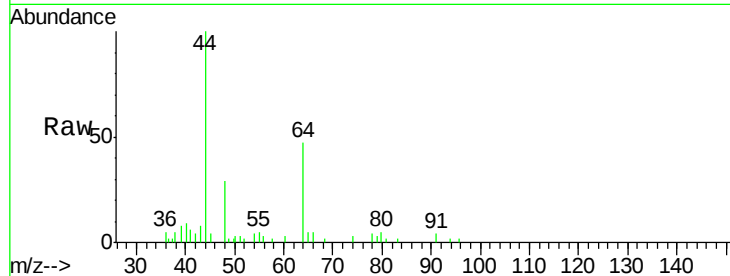
STORAGEBLANK-SOILREF-6

Tot Ion: 74 Resp: 79

Ion Ratio Lower Upper

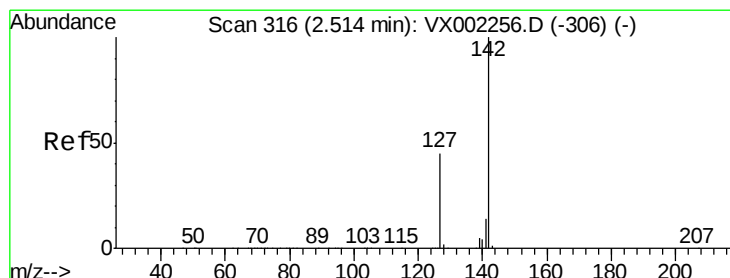
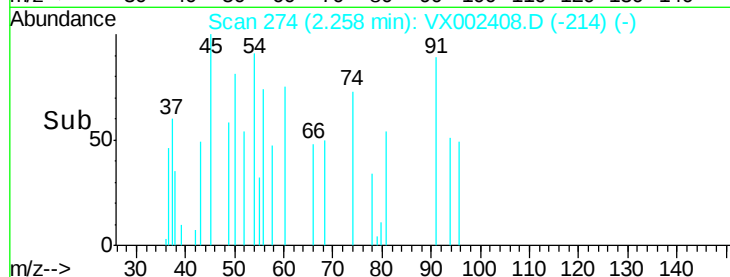
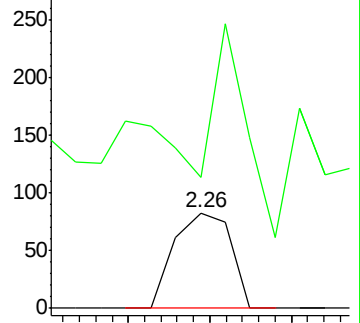
74 100

45 125.3 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#10

Methyl Iodide

Concen: 0.55 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002408.D

Acq: 08 Jun 2018 18:04

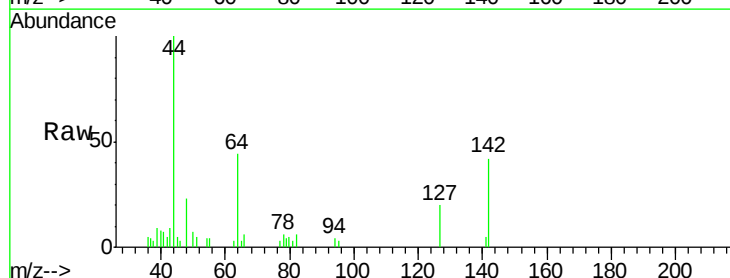
Tgt Ion: 142 Resp: 1812

Ion Ratio Lower Upper

142 100

127 55.4 36.6 55.0#

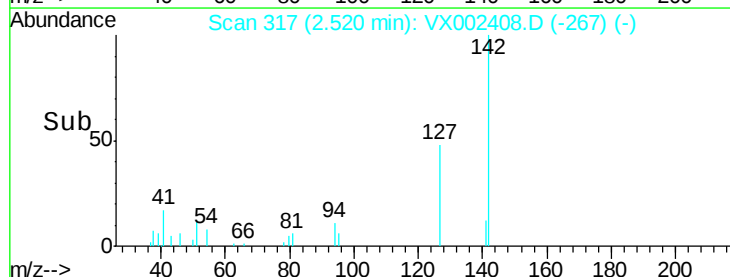
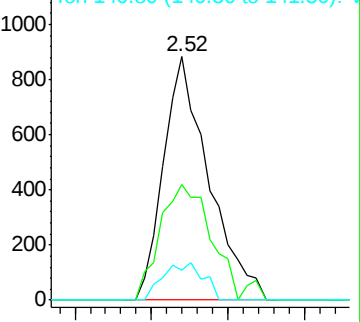
141 13.5 11.3 16.9

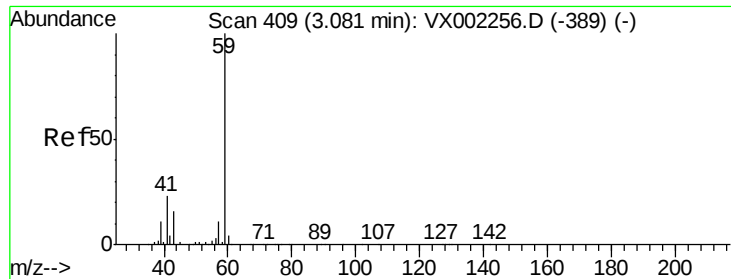


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



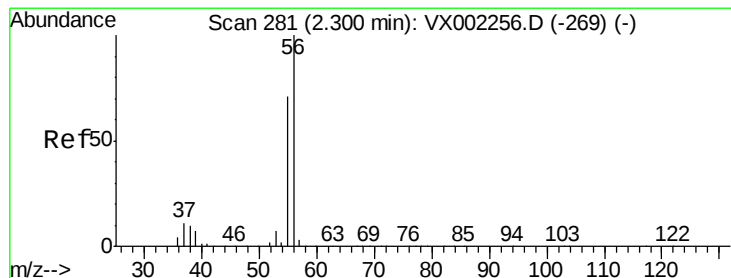
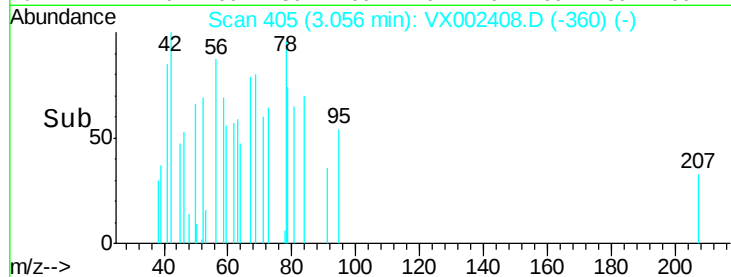
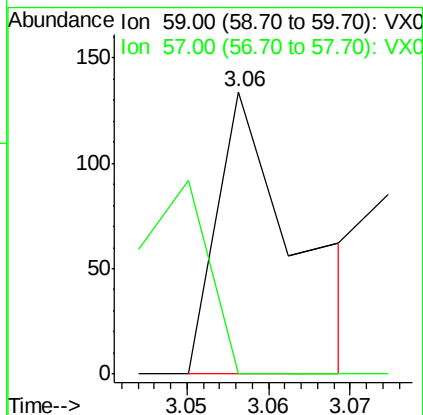
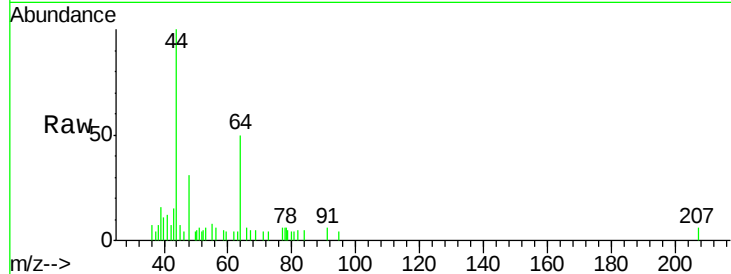


#11

Tert butyl alcohol
Concen: Below Cal
RT: 3.06 min Scan# 405
Delta R.T. -0.02 min
Lab File: VX002408.D
Acq: 08 Jun 2018 18:04

Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-SOILREF-6

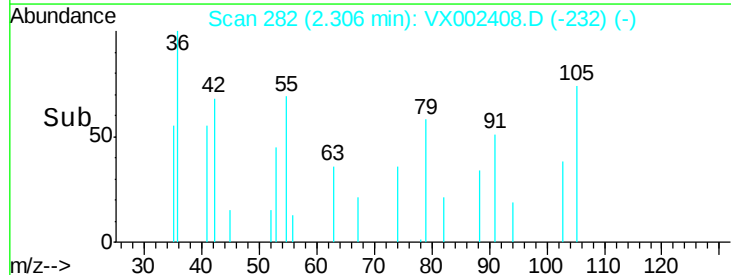
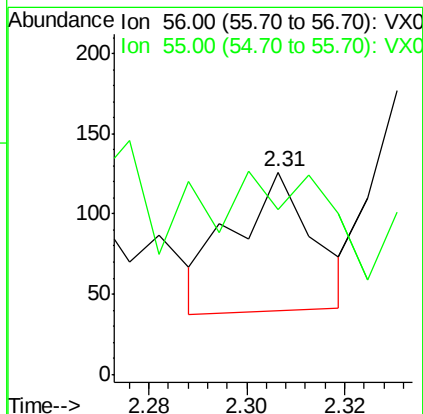
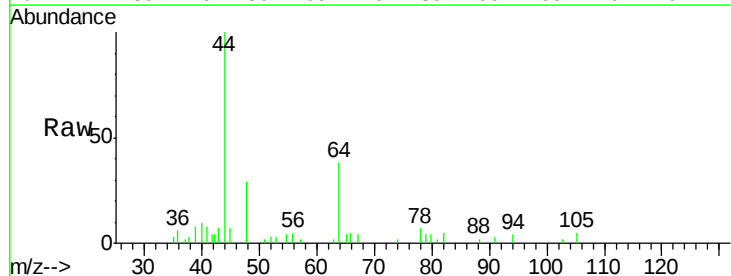
Tot Ion: 59 Resp: 92
Ion Ratio Lower Upper
59 100
57 107.6 8.2 12.2#

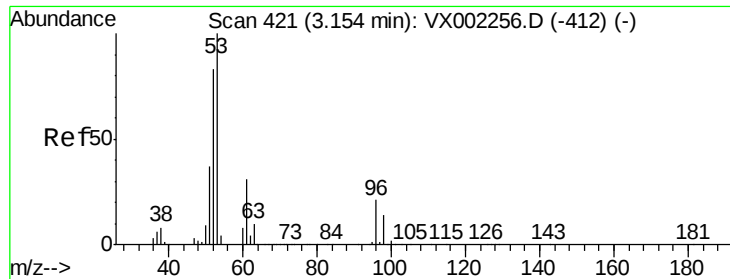


#13

Acrolein
Concen: Below Cal
RT: 2.31 min Scan# 282
Delta R.T. 0.01 min
Lab File: VX002408.D
Acq: 08 Jun 2018 18:04

Tgt Ion: 56 Resp: 98
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#





#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX002408.D

Acq: 08 Jun 2018 18:04

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-6

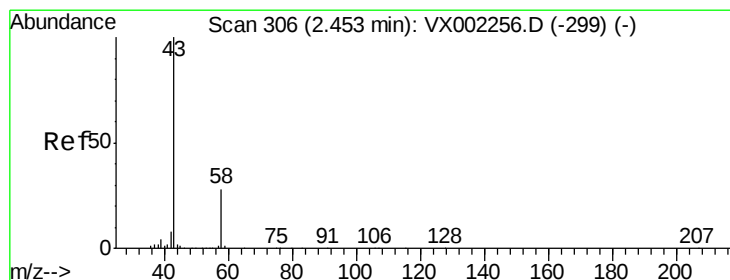
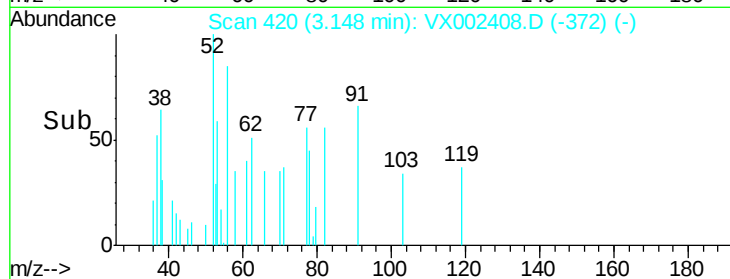
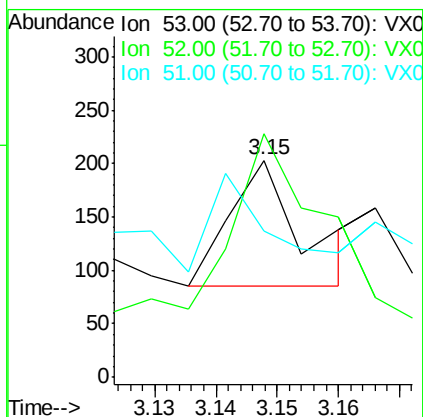
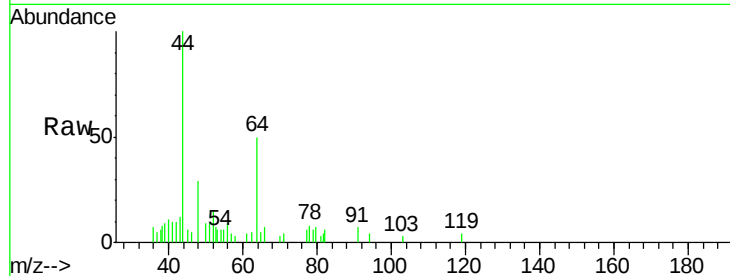
Tot Ion: 53 Resp: 96

Ion Ratio Lower Upper

53 100

52 397.9 66.7 100.1#

51 187.5 29.9 44.9#



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002408.D

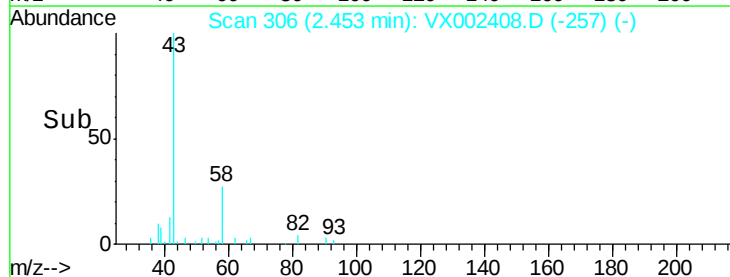
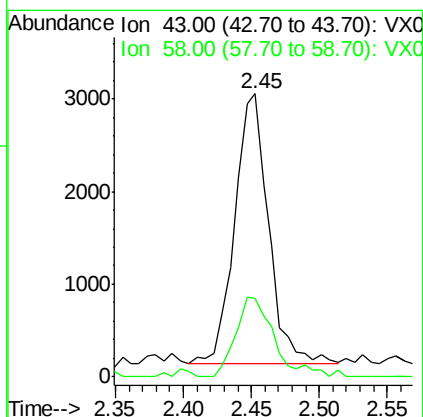
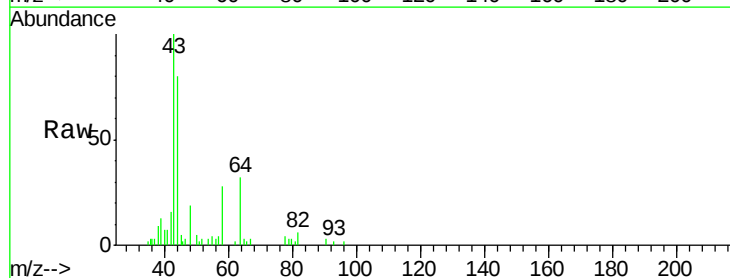
Acq: 08 Jun 2018 18:04

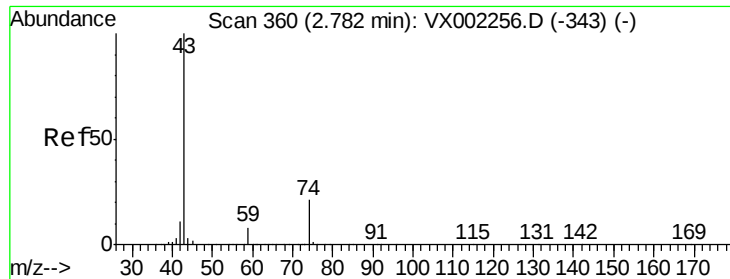
Tgt Ion: 43 Resp: 5029

Ion Ratio Lower Upper

43 100

58 27.1 22.1 33.1

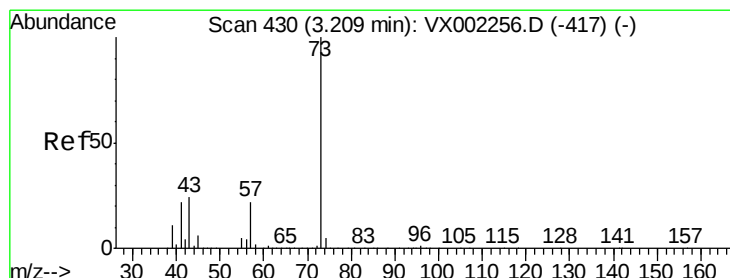
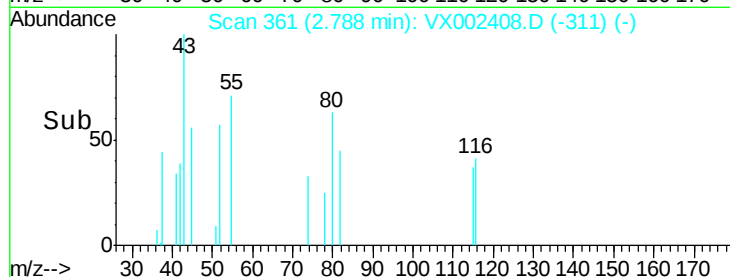
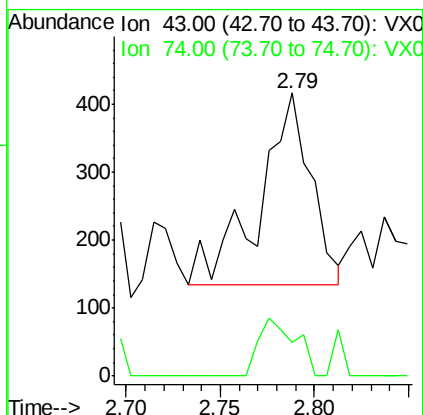
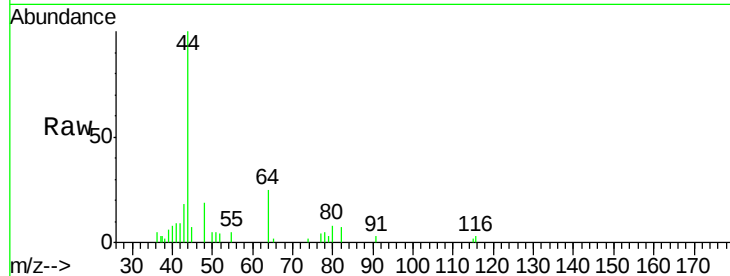




#18
Methyl Acetate
Concen: Below Cal
RT: 2.79 min Scan# 361
Delta R.T. 0.01 min
Lab File: VX002408.D
Acq: 08 Jun 2018 18:04

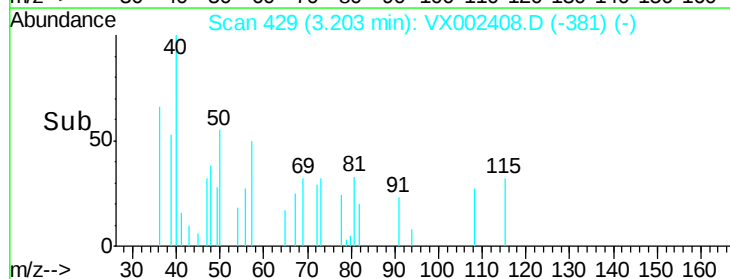
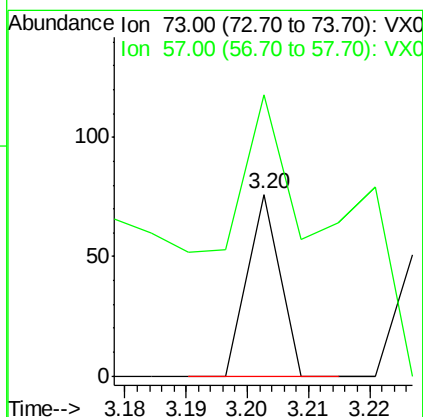
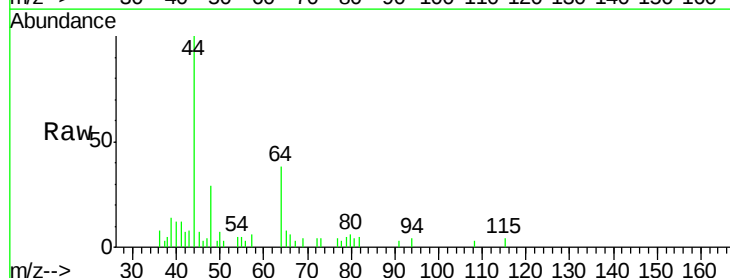
Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-SOILREF-6

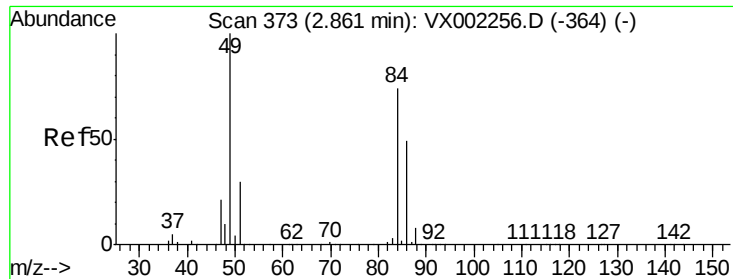
Tot Ion: 43 Resp: 536
Ion Ratio Lower Upper
43 100
74 21.6 16.7 25.1



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.20 min Scan# 429
Delta R.T. -0.01 min
Lab File: VX002408.D
Acq: 08 Jun 2018 18:04

Tgt Ion: 73 Resp: 28
Ion Ratio Lower Upper
73 100
57 86.8 17.7 26.5#

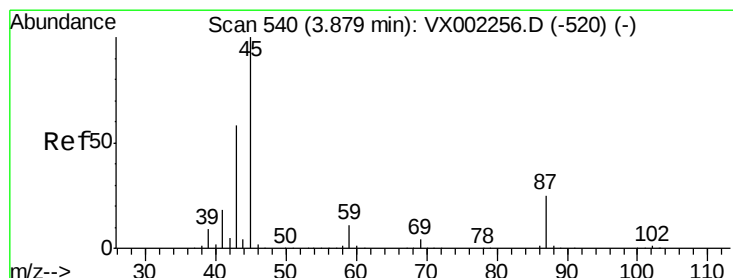
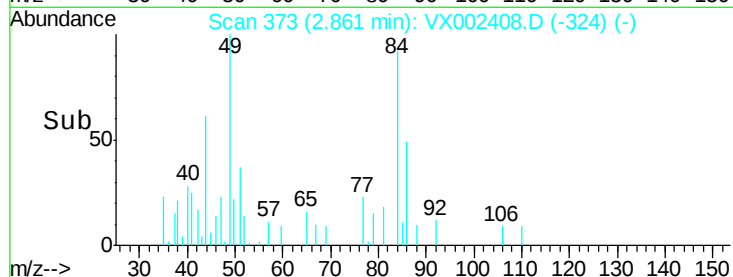
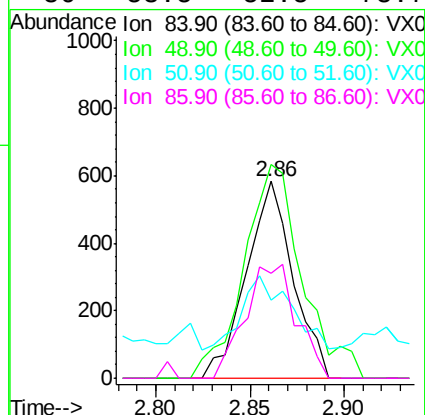
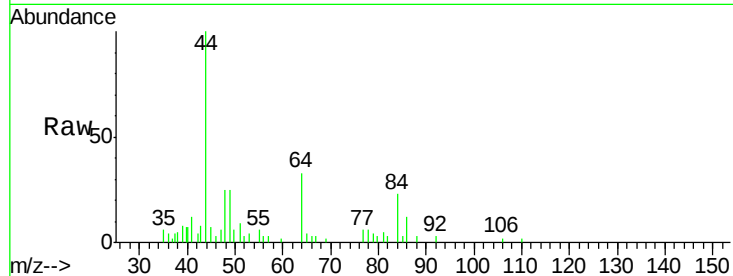




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002408.D
Acq: 08 Jun 2018 18:04

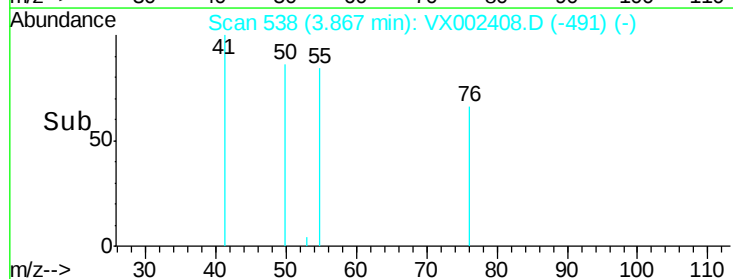
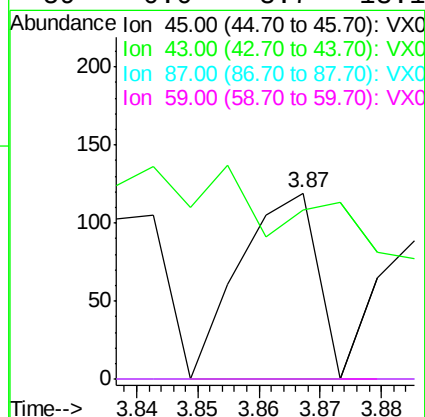
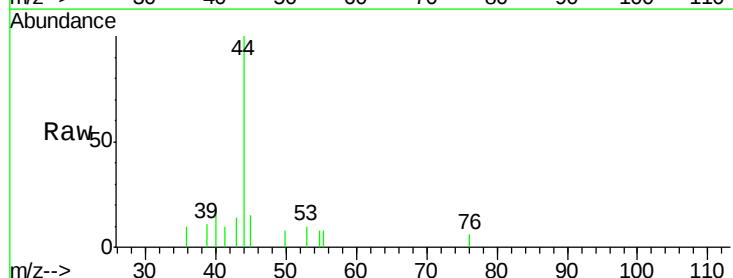
Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-SOILREF-6

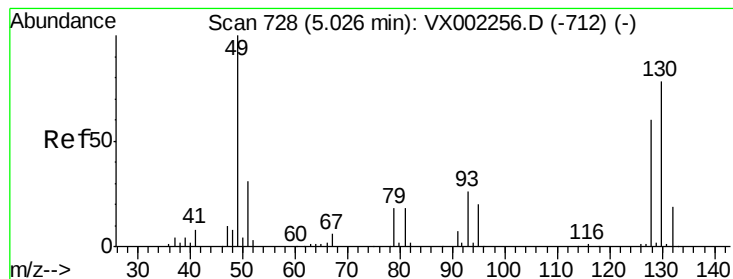
Tot Ion: 84 Resp: 999
Ion Ratio Lower Upper
84 100
49 108.6 107.8 161.6
51 24.2 32.8 49.2#
86 53.5 52.5 78.7



#22
Diisopropyl ether
Concen: Below Cal
RT: 3.87 min Scan# 538
Delta R.T. -0.01 min
Lab File: VX002408.D
Acq: 08 Jun 2018 18:04

Tgt Ion: 45 Resp: 104
Ion Ratio Lower Upper
45 100
43 0.0 46.8 70.2#
87 0.0 20.2 30.4#
59 0.0 8.7 13.1#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 729

Delta R.T. 0.01 min

Lab File: VX002408.D

Acq: 08 Jun 2018 18:04

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-6

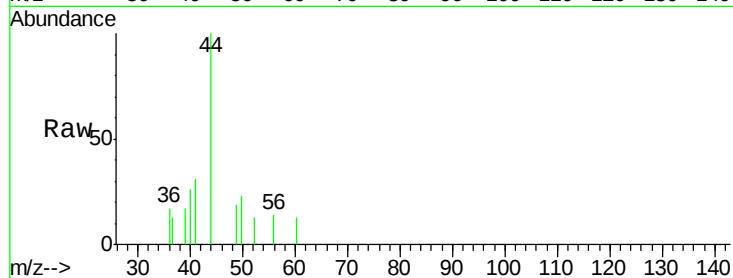
Tot Ion: 49 Resp: 69

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

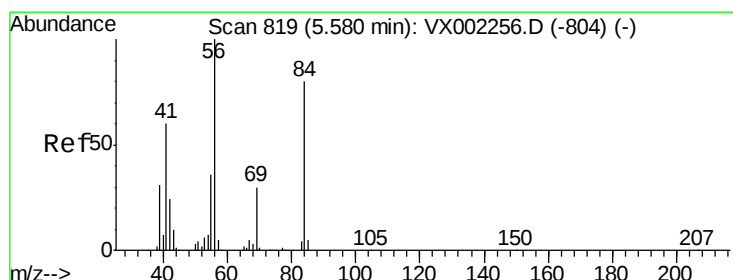
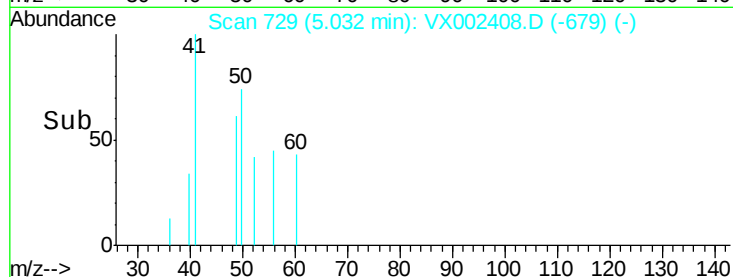
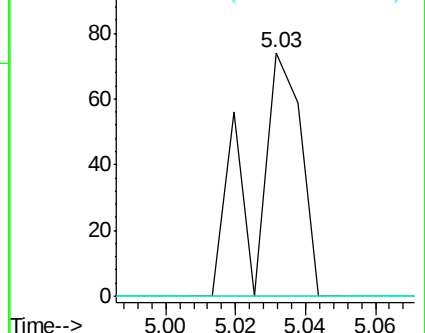
130 0.0 61.2 91.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#31

Cyclohexane

Concen: 1.15 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX002408.D

Acq: 08 Jun 2018 18:04

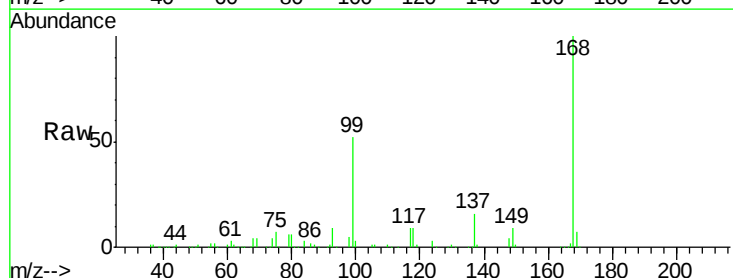
Tgt Ion: 56 Resp: 4566

Ion Ratio Lower Upper

56 100

69 166.2 23.7 35.5#

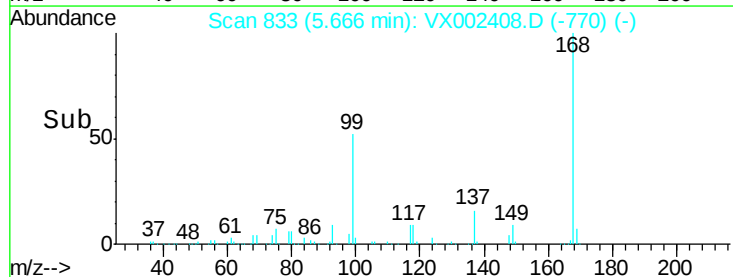
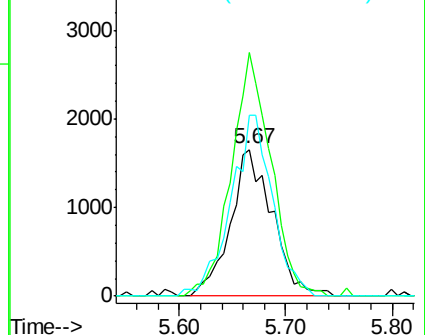
84 123.2 64.1 96.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 48.93 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002408.D

Acq: 08 Jun 2018 18:04

Instrument :

MSVOA_X

ClientSampleId :

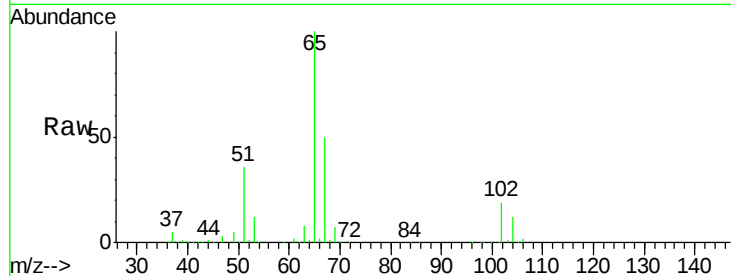
STORAGEBLANK-SOILREF-6

Tot Ion: 65 Resp: 153629

Ion Ratio Lower Upper

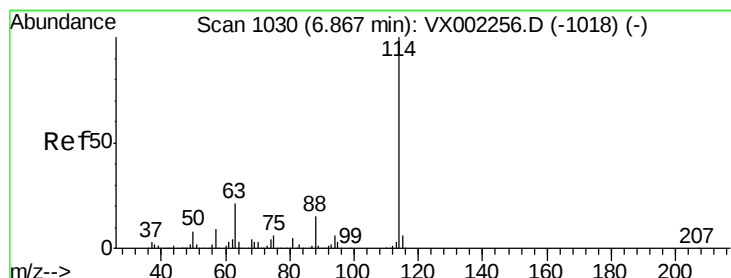
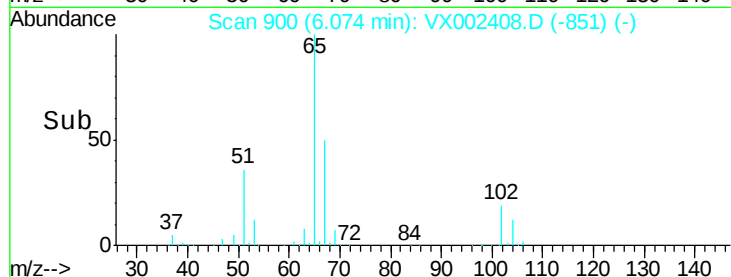
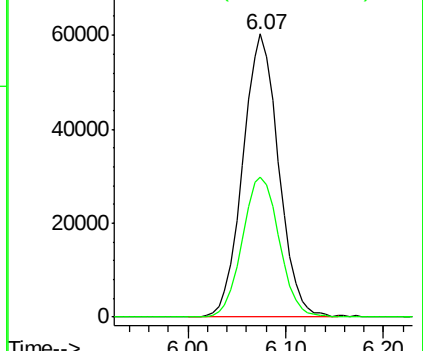
65 100

67 51.2 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002408.D

Acq: 08 Jun 2018 18:04

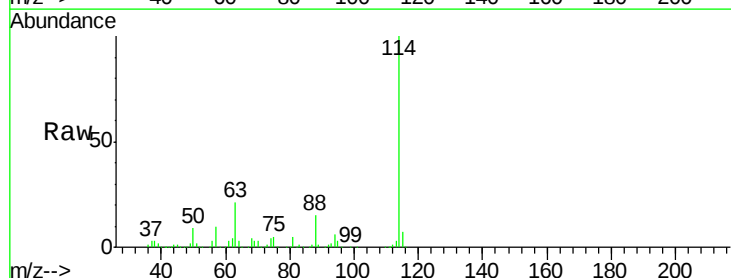
Tgt Ion: 114 Resp: 319715

Ion Ratio Lower Upper

114 100

63 21.3 0.0 41.4

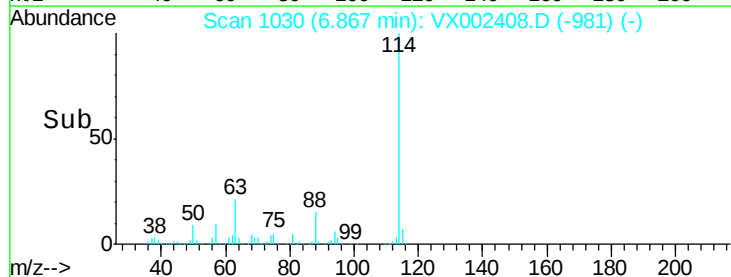
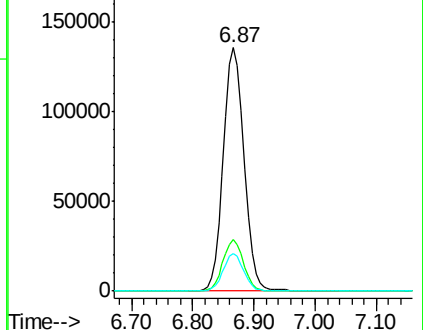
88 15.3 0.0 30.0

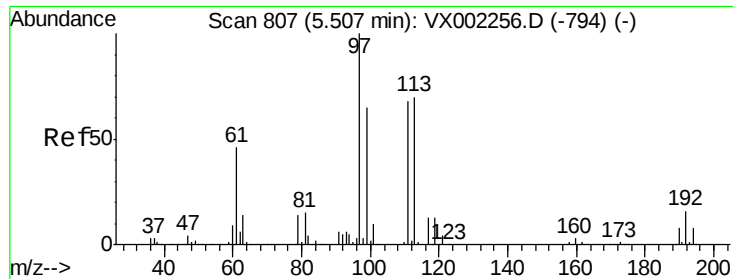


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 45.99 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002408.D

Acq: 08 Jun 2018 18:04

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-6

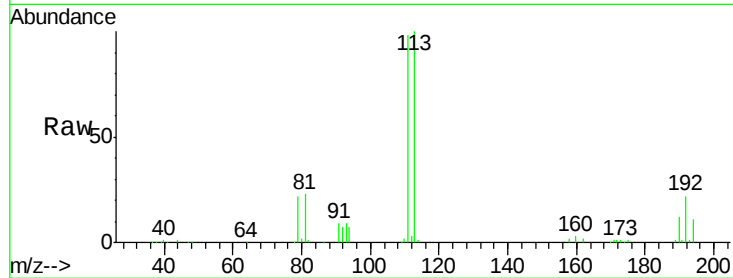
Tot Ion:113 Resp: 115632

Ion Ratio Lower Upper

113 100

111 100.7 81.4 122.0

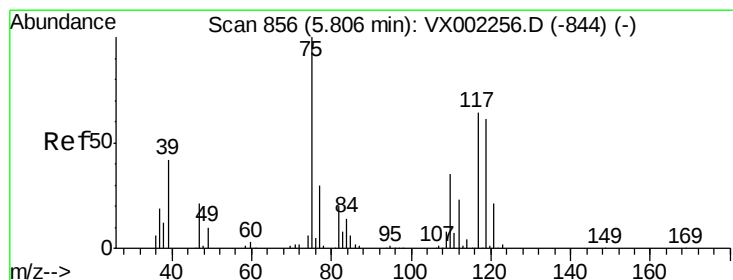
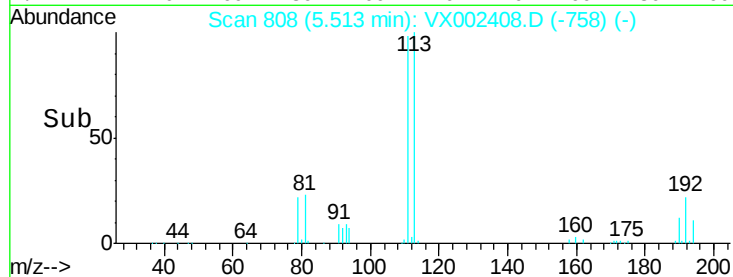
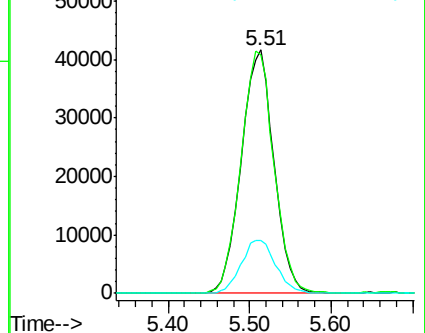
192 23.2 19.1 28.7



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: 4.54 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.15 min

Lab File: VX002408.D

Acq: 08 Jun 2018 18:04

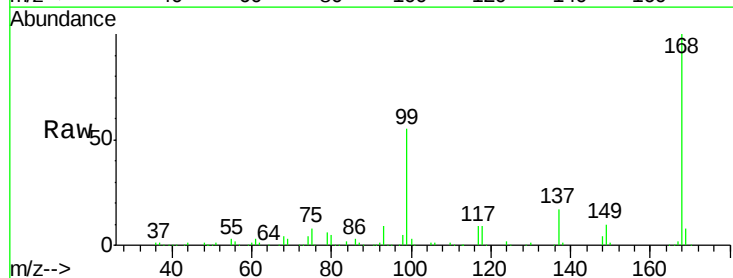
Tgt Ion: 75 Resp: 15262

Ion Ratio Lower Upper

75 100

110 10.3 18.1 54.4#

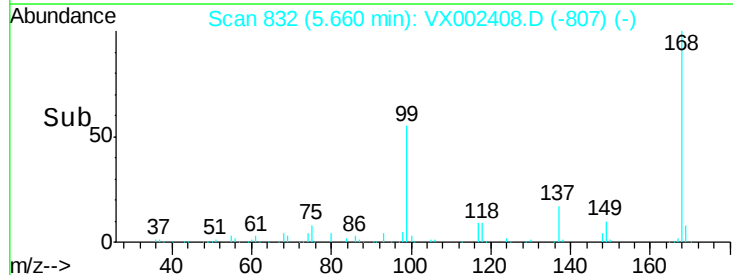
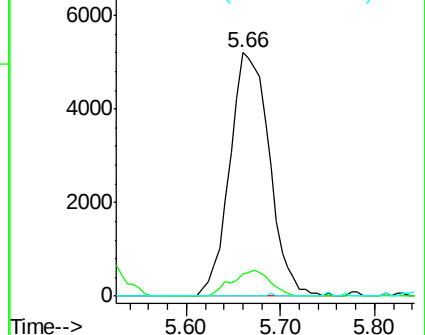
77 0.0 24.3 36.5#

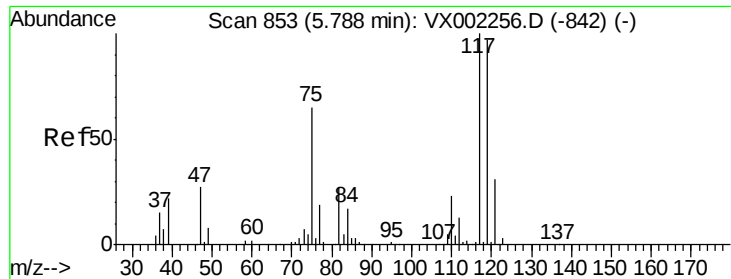


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.81 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002408.D

Acq: 08 Jun 2018 18:04

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-6

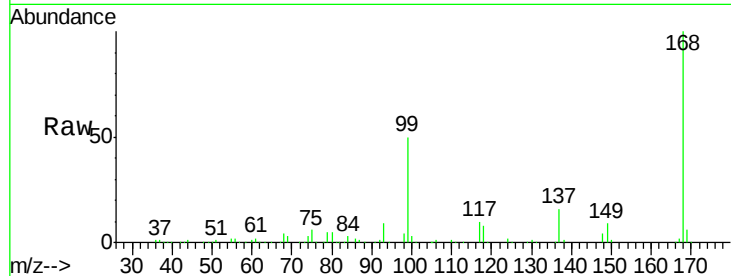
Tot Ion:117 Resp: 20439

Ion Ratio Lower Upper

117 100

119 4.6 77.4 116.0#

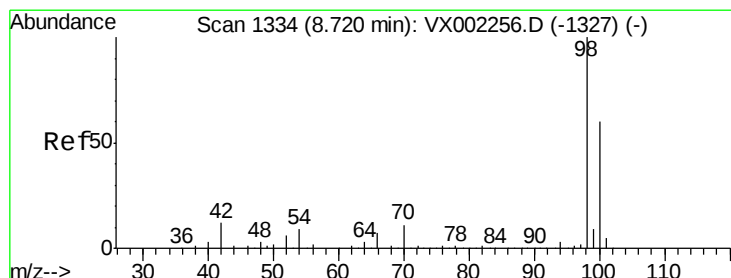
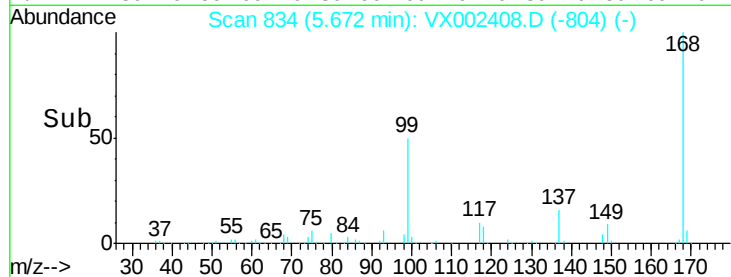
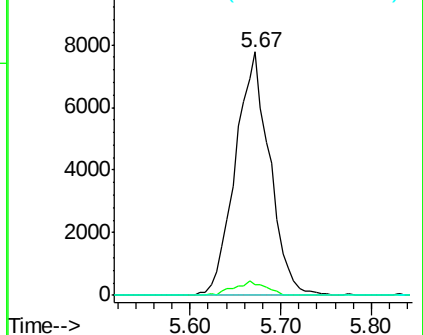
121 0.0 24.4 36.6#



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



#50

Toluene-d8

Concen: 47.29 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002408.D

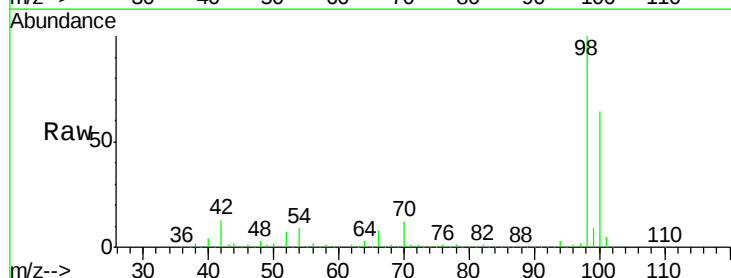
Acq: 08 Jun 2018 18:04

Tgt Ion: 98 Resp: 455742

Ion Ratio Lower Upper

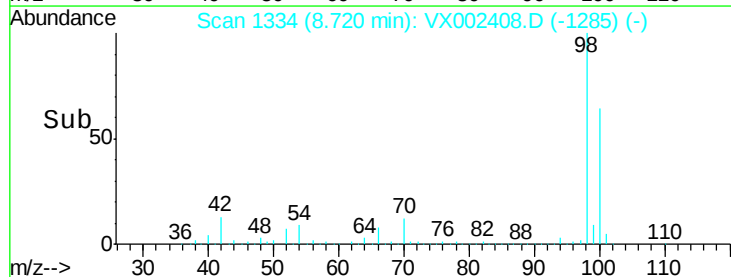
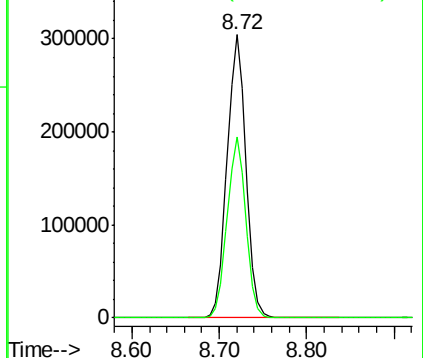
98 100

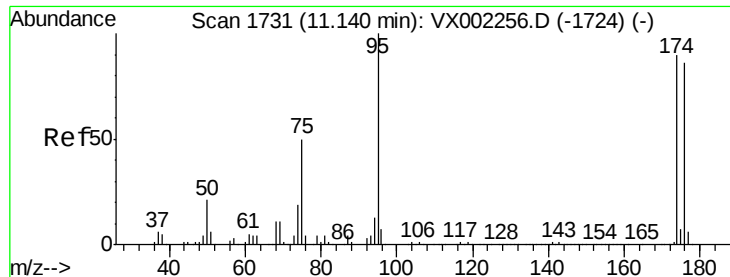
100 63.2 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

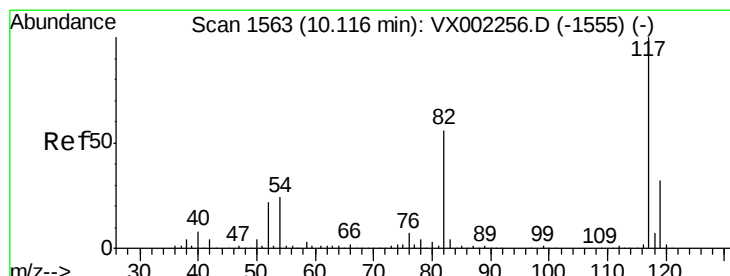
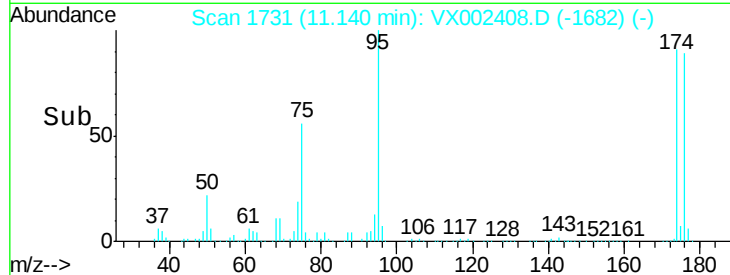
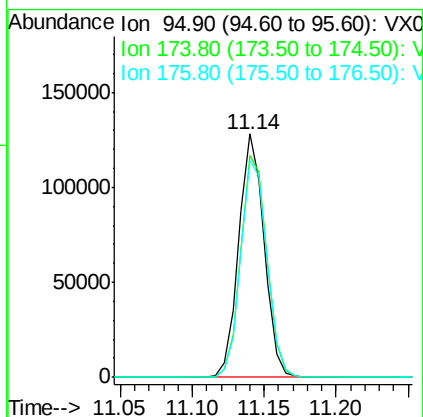
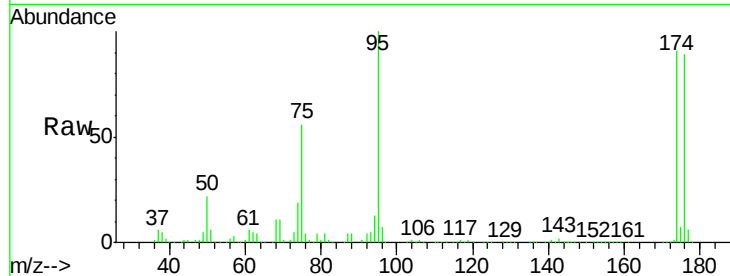




#62
4-Bromofluorobenzene
Concen: 42.30 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002408.D
Acq: 08 Jun 2018 18:04

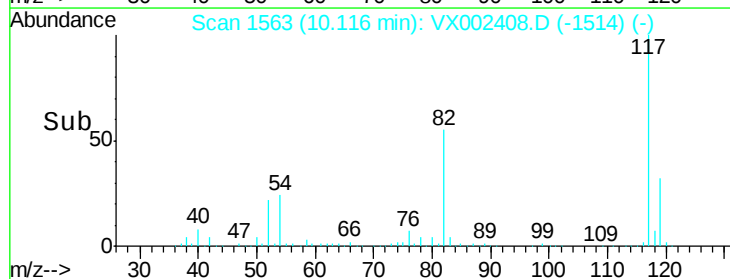
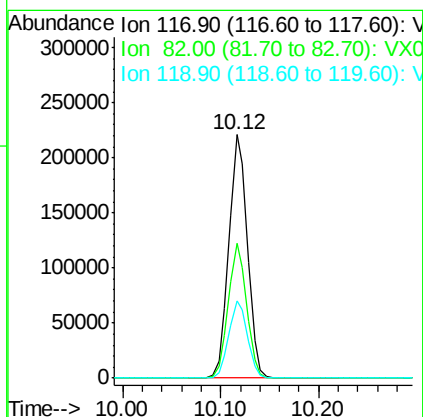
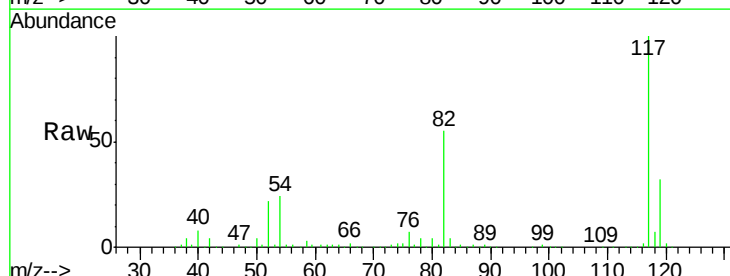
Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-SOILREF-6

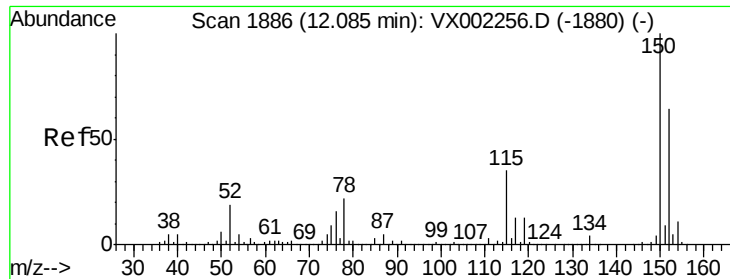
Tot Ion: 95 Resp: 157198
Ion Ratio Lower Upper
95 100
174 93.7 0.0 187.4
176 91.8 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002408.D
Acq: 08 Jun 2018 18:04

Tgt Ion: 117 Resp: 291486
Ion Ratio Lower Upper
117 100
82 55.4 45.0 67.4
119 31.8 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002408.D

Acq: 08 Jun 2018 18:04

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-6

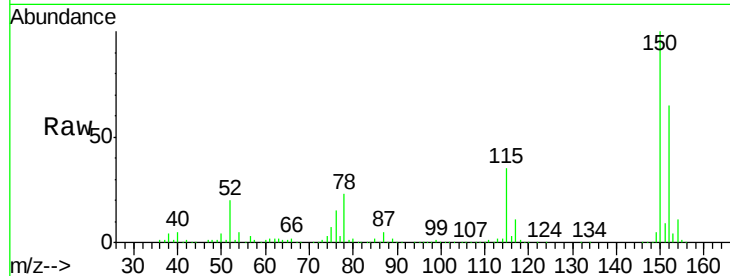
Tot Ion:152 Resp: 158804

Ion Ratio Lower Upper

152 100

115 55.7 40.1 120.2

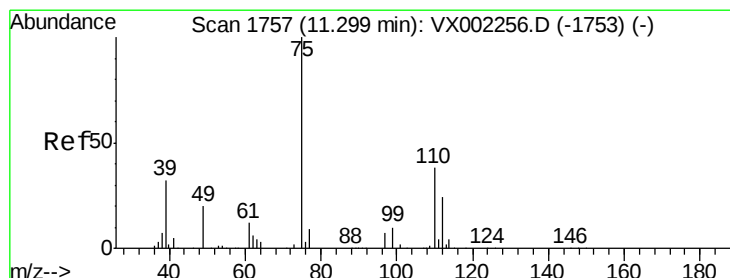
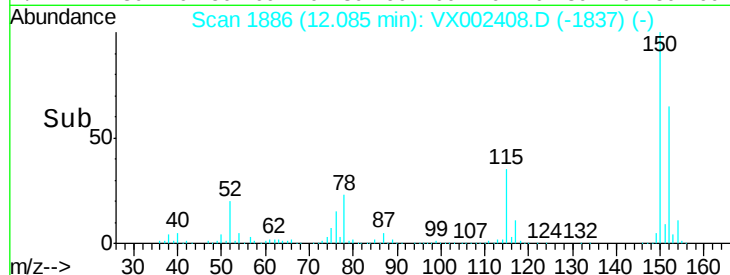
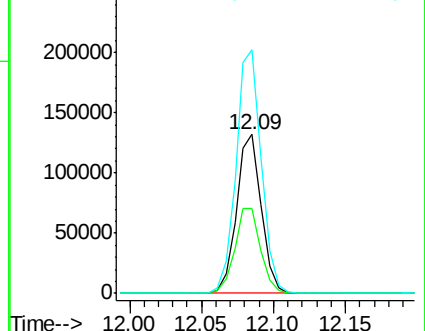
150 156.1 0.0 347.2



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: 24.46 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002408.D

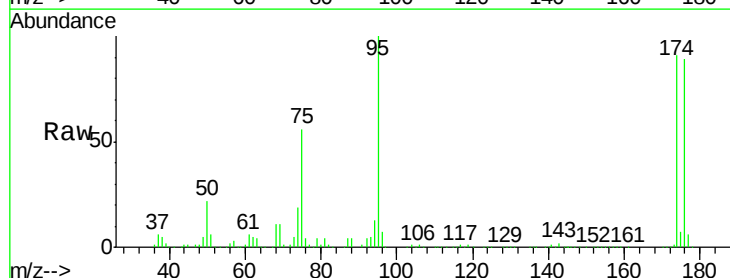
Acq: 08 Jun 2018 18:04

Tgt Ion: 75 Resp: 85238

Ion Ratio Lower Upper

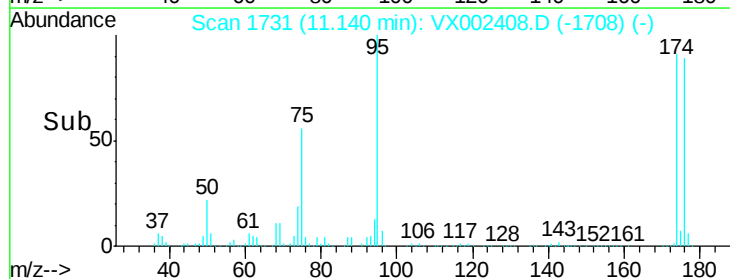
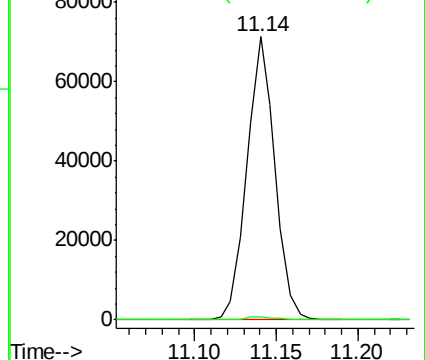
75 100

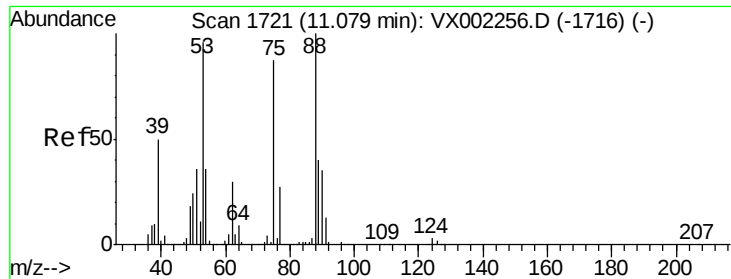
77 1.2 22.8 68.3#



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: 85.75 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002408.D

Acq: 08 Jun 2018 18:04

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-6

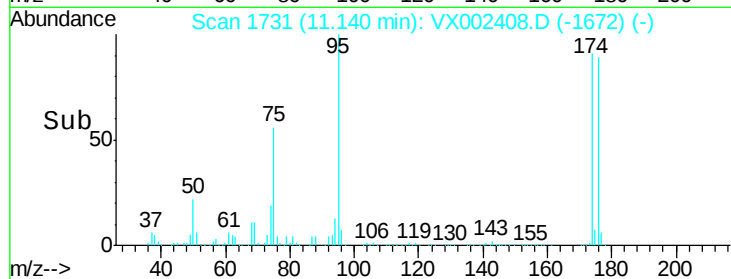
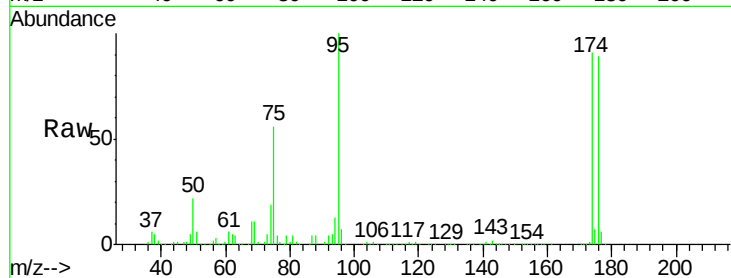
Tot Ion: 75 Resp: 85238

Ion Ratio Lower Upper

75 100

53 0.0 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

