

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VO060818\
 Data File : VX002409.D
 Acq On : 08 Jun 2018 18:30
 Operator : JC/MD
 Sample : J3407-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE BLANK-SOILREF-5

Quant Time: Jun 09 01:51:14 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	199316	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	290395	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	261353	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	132543	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	138528	48.50	ug/l	0.00
Spiked Amount			Recovery	=	97.00%	
35) Dibromofluoromethane	5.51	113	102514	44.89	ug/l	0.00
Spiked Amount			Recovery	=	89.78%	
50) Toluene-d8	8.72	98	409908	46.83	ug/l	0.00
Spiked Amount			Recovery	=	93.66%	
62) 4-Bromofluorobenzene	11.14	95	133263	39.48	ug/l	0.00
Spiked Amount			Recovery	=	78.96%	

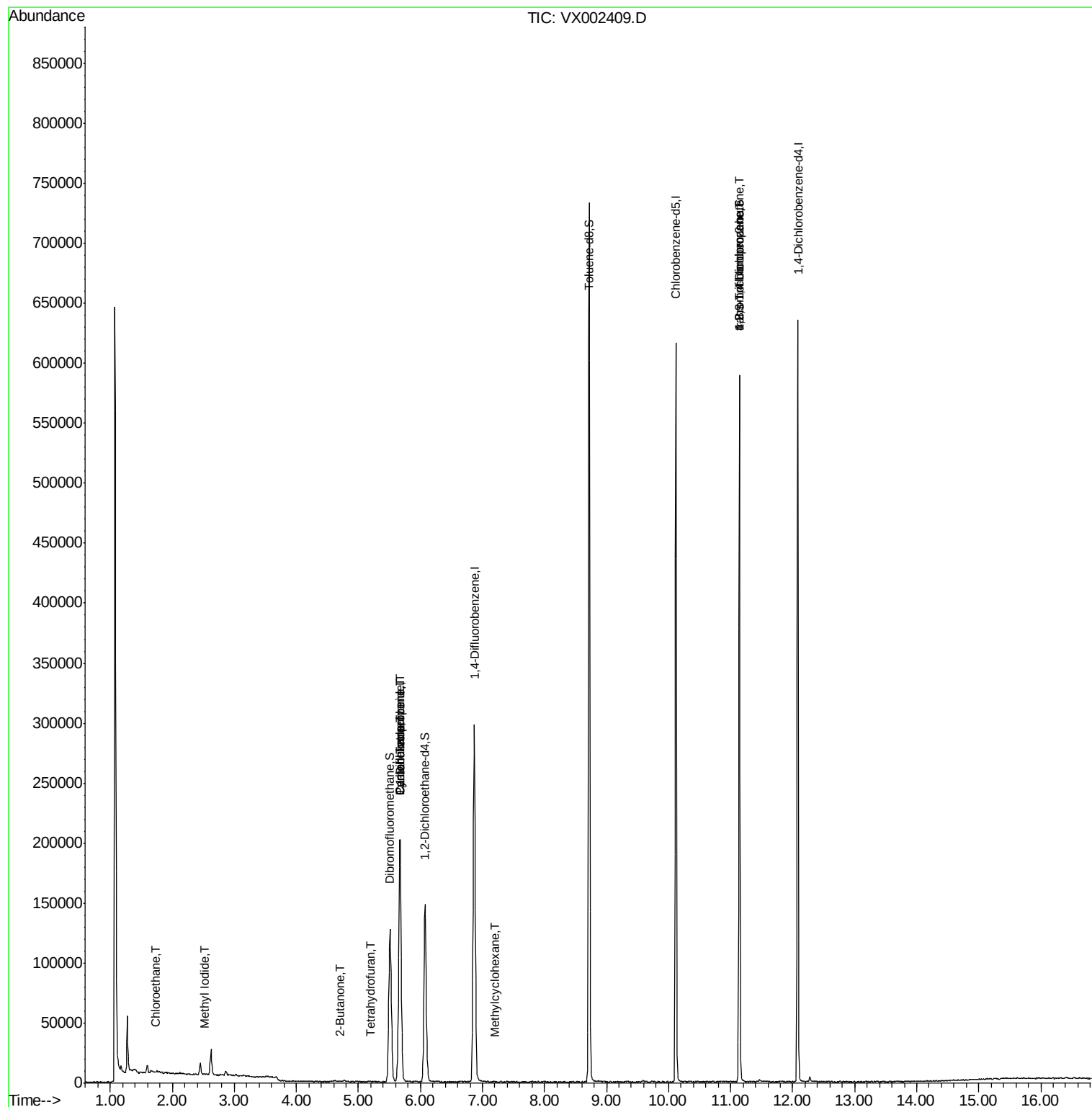
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	643	Below Cal	#	79
5) Bromomethane	1.66	94	1685	Below Cal	#	79
6) Chloroethane	1.73	64	856	0.51	ug/l	91
8) Diethyl Ether	2.19	74	89	Below Cal	#	1
10) Methyl Iodide	2.53	142	1495	0.50	ug/l	97
11) Tert butyl alcohol	3.08	59	98	Below Cal	#	1
13) Acrolein	2.29	56	36	Below Cal	#	1
15) Acrylonitrile	3.15	53	267	Below Cal	#	1
16) Acetone	2.45	43	10237	Below Cal	#	100
18) Methyl Acetate	2.79	43	412	Below Cal	#	62
19) Methyl tert-butyl Ether	3.24	73	54	Below Cal	#	54
20) Methylene Chloride	2.86	84	1557	Below Cal	#	84
22) Diisopropyl ether	3.88	45	52	Below Cal	#	35
25) 2-Butanone	4.71	43	756	0.39	ug/l	52
28) Bromochloromethane	4.95	49	22	Below Cal	#	13
29) Tetrahydrofuran	5.19	42	445	0.35	ug/l	95
31) Cyclohexane	5.67	56	4435	1.23	ug/l	1
36) 1,1-Dichloropropene	5.67	75	13854	4.54	ug/l	51
38) Carbon Tetrachloride	5.67	117	18352	5.75	ug/l	16
39) Methylcyclohexane	7.20	83	19	0.27	ug/l	28
76) 1,2,3-Trichloropropane	11.14	75	73204	25.17	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	73204	88.23	ug/l	6

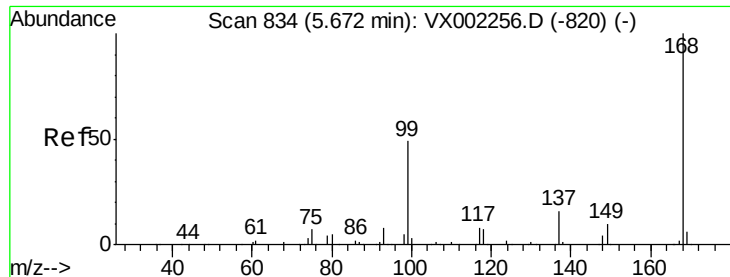
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX002409.D

Acq: 08 Jun 2018 18:30

Instrument :

MSVOA_X

ClientSampleId :

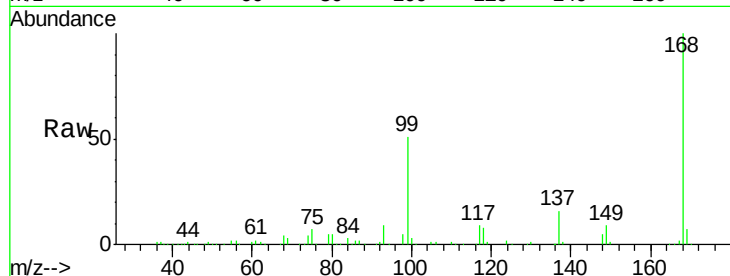
STORAGEBLANK-SOILREF-5

Tot Ion:168 Resp: 199316

Ion Ratio Lower Upper

168 100

99 51.1 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

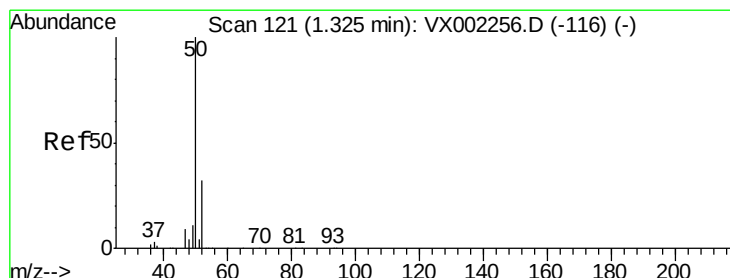
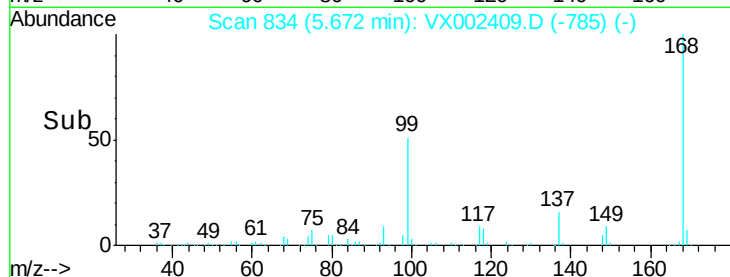
40000

20000

0

Time-->

5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002409.D

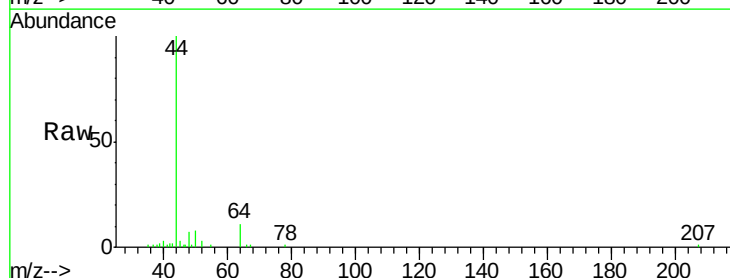
Acq: 08 Jun 2018 18:30

Tgt Ion: 50 Resp: 643

Ion Ratio Lower Upper

50 100

52 43.9 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

600

500

400

300

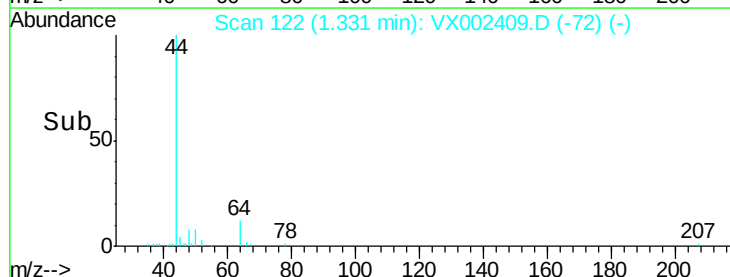
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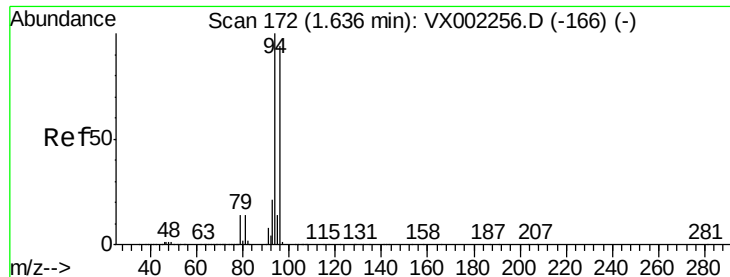
100

0

Time-->

1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002409.D

Acq: 08 Jun 2018 18:30

Instrument :

MSVOA_X

ClientSampleId :

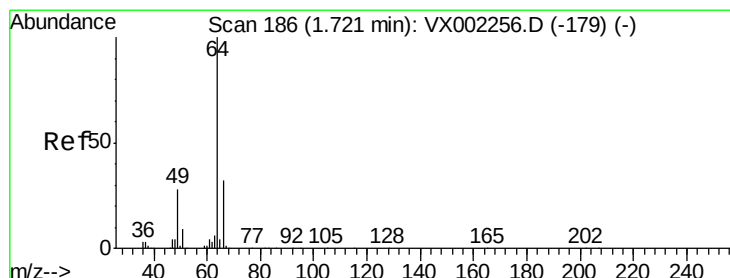
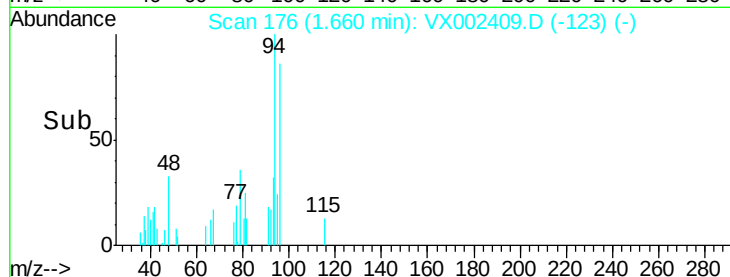
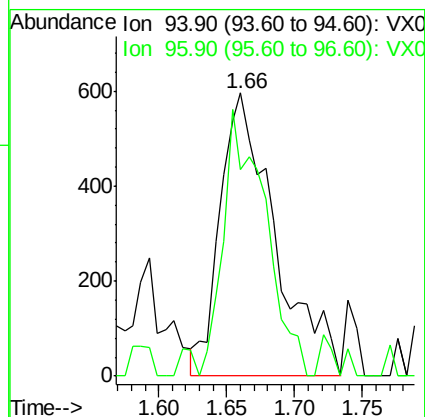
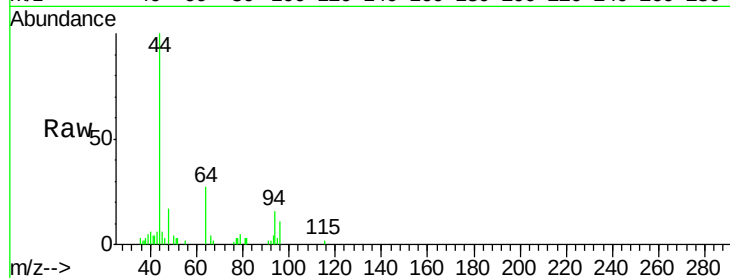
STORAGEBLANK-SOILREF-5

Tot Ion: 94 Resp: 1685

Ion Ratio Lower Upper

94 100

96 73.2 74.9 112.3#



#6

Chloroethane

Concen: 0.51 ug/l

RT: 1.73 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX002409.D

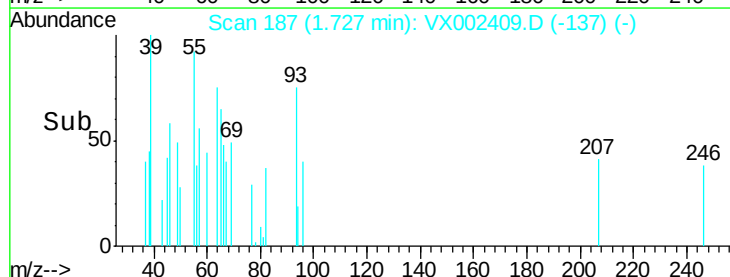
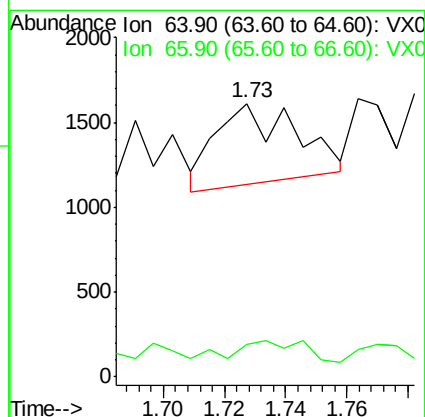
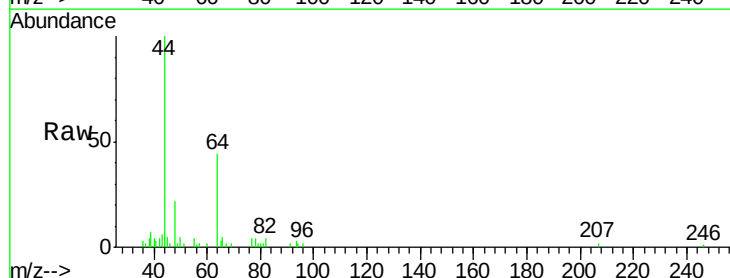
Acq: 08 Jun 2018 18:30

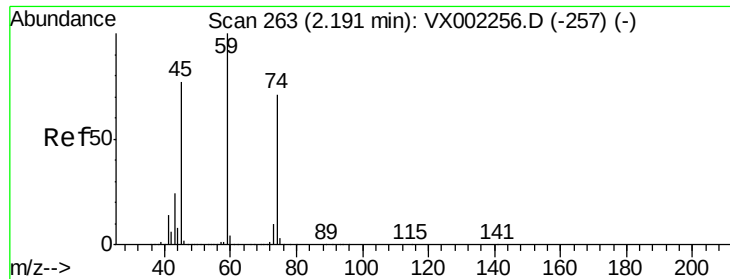
Tgt Ion: 64 Resp: 856

Ion Ratio Lower Upper

64 100

66 26.7 25.5 38.3





#8

Diethyl Ether

Concen: Below Cal

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX002409.D

Acq: 08 Jun 2018 18:30

Instrument :

MSVOA_X

ClientSampleId :

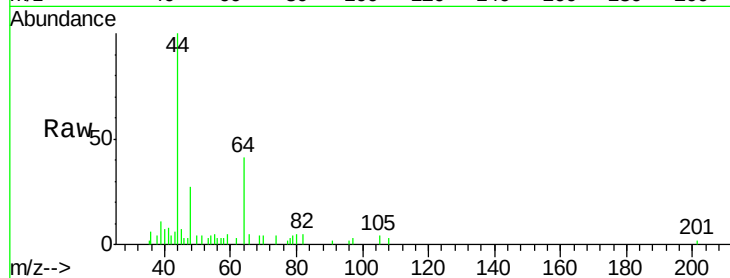
STORAGEBLANK-SOILREF-5

Tot Ion: 74 Resp: 89

Ion Ratio Lower Upper

74 100

45 358.4 53.1 159.4#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

250

200

150

100

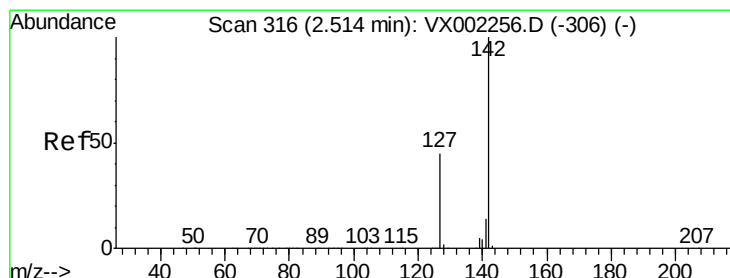
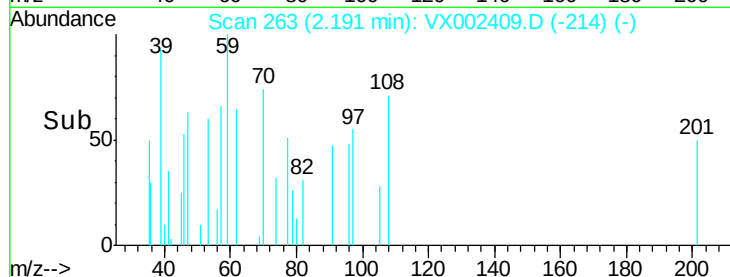
50

0

2.16 2.18 2.20 2.22

2.19

Time-->



#10

Methyl Iodide

Concen: 0.50 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX002409.D

Acq: 08 Jun 2018 18:30

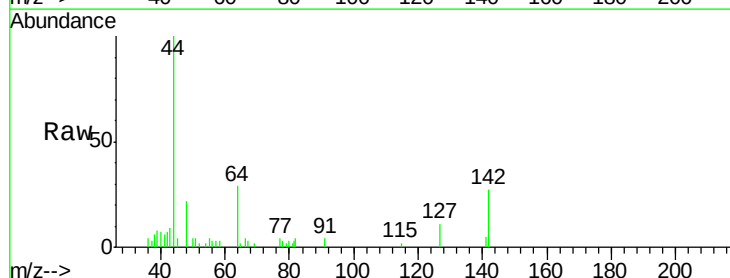
Tgt Ion: 142 Resp: 1495

Ion Ratio Lower Upper

142 100

127 46.5 36.6 55.0

141 18.7 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

800

600

400

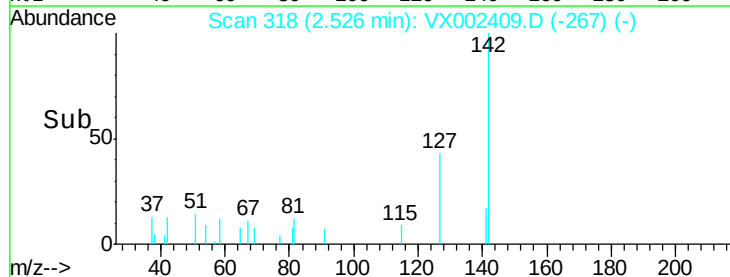
200

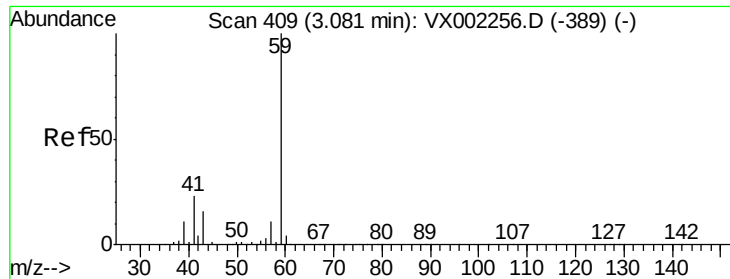
0

2.45 2.50 2.55 2.60

2.53

Time-->

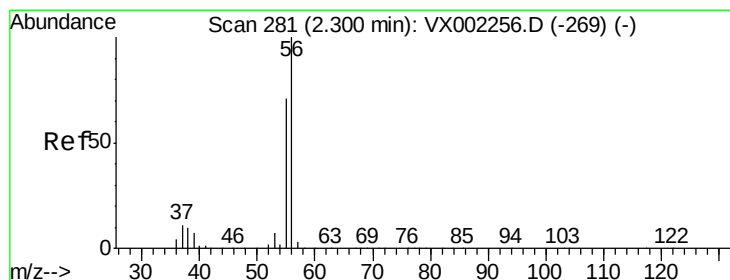
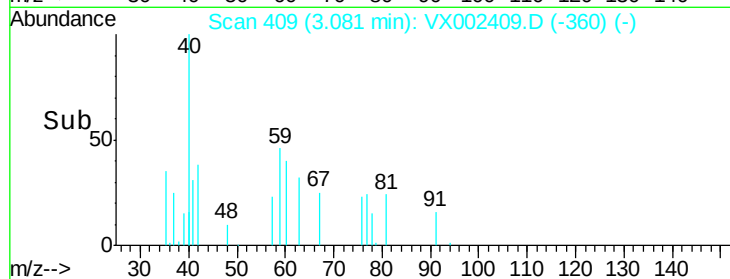
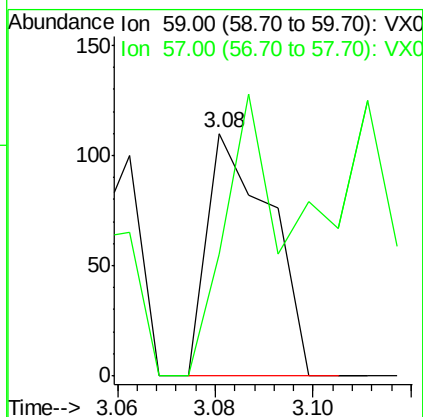
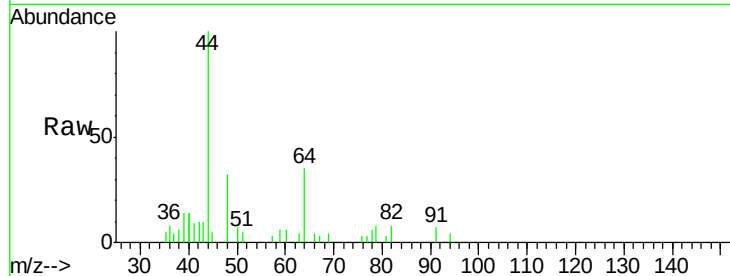




#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.08 min Scan# 409
Delta R.T. 0.00 min
Lab File: VX002409.D
Acq: 08 Jun 2018 18:30

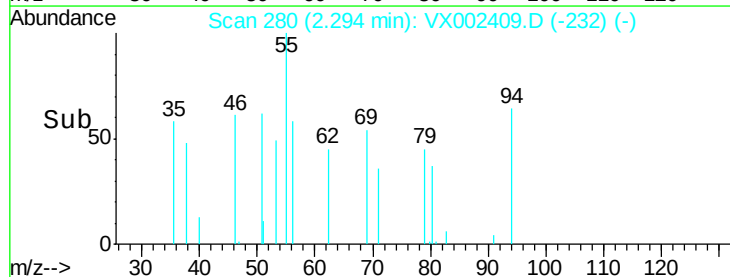
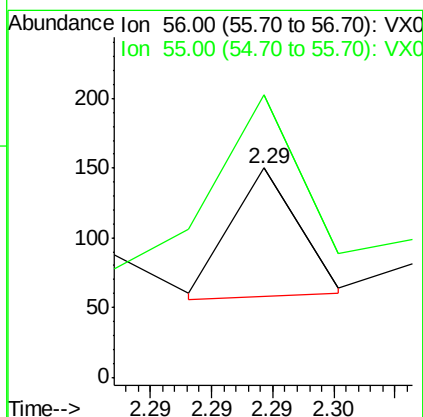
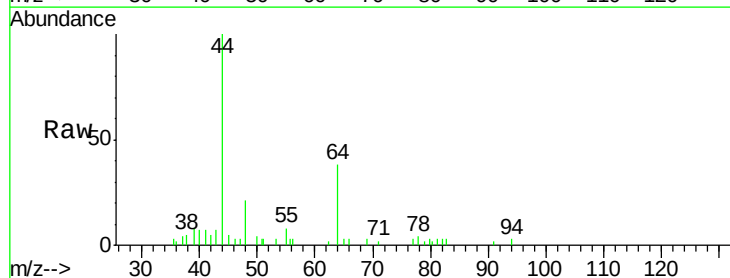
Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-SOILREF-5

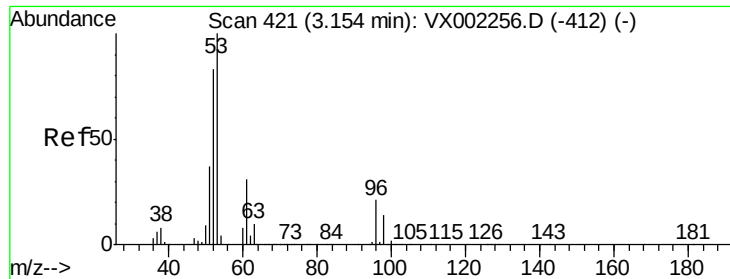
Tot Ion: 59 Resp: 98
Ion Ratio Lower Upper
59 100
57 142.9 8.2 12.2#



#13
Acrolein
Concen: Below Cal
RT: 2.29 min Scan# 280
Delta R.T. -0.01 min
Lab File: VX002409.D
Acq: 08 Jun 2018 18:30

Tgt Ion: 56 Resp: 36
Ion Ratio Lower Upper
56 100
55 208.3 57.0 85.4#





#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX002409.D

Acq: 08 Jun 2018 18:30

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-5

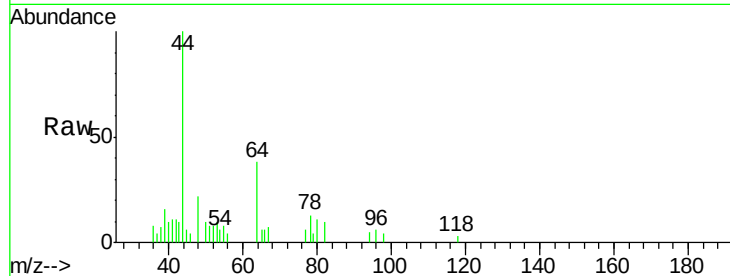
Tot Ion: 53 Resp: 267

Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

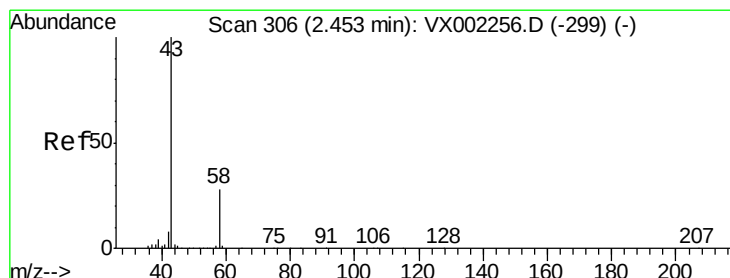
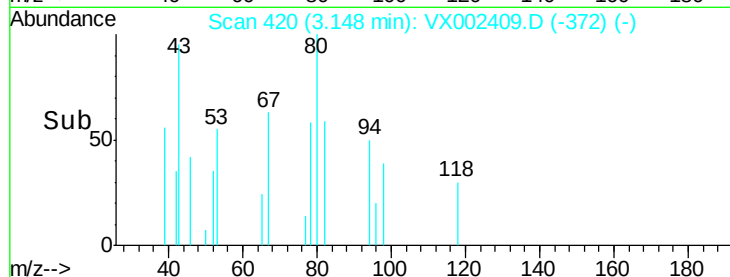
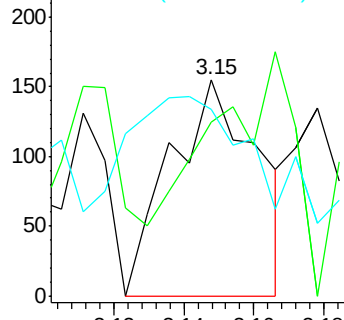
51 112.0 29.9 44.9#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002409.D

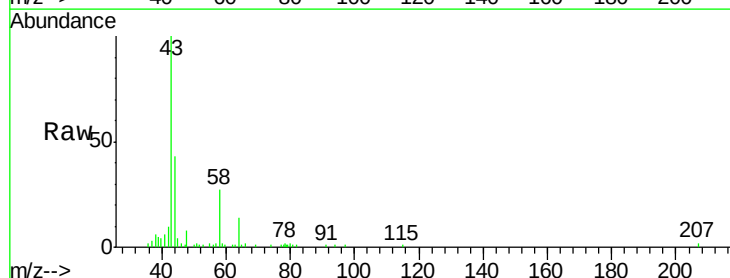
Acq: 08 Jun 2018 18:30

Tgt Ion: 43 Resp: 10237

Ion Ratio Lower Upper

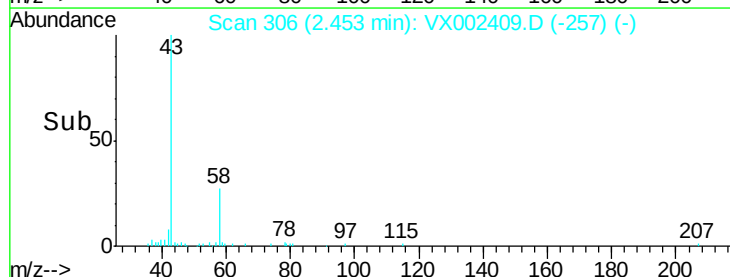
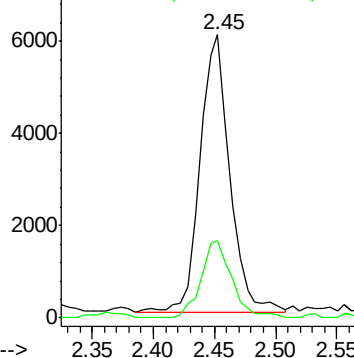
43 100

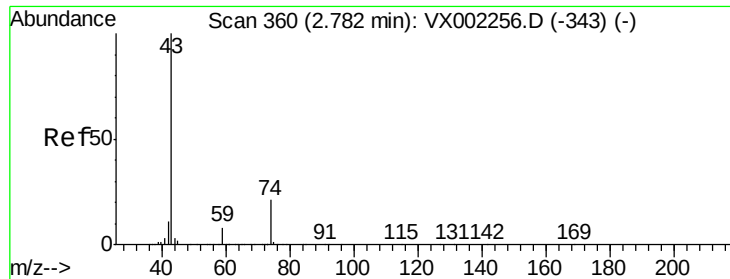
58 27.7 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

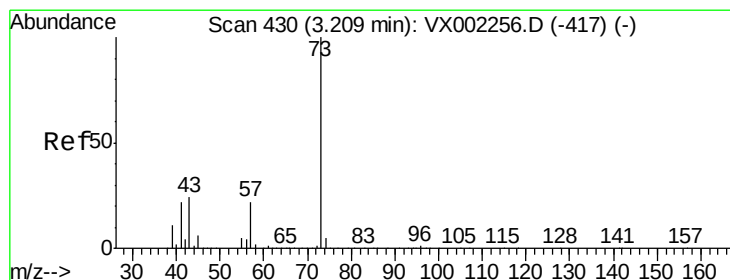
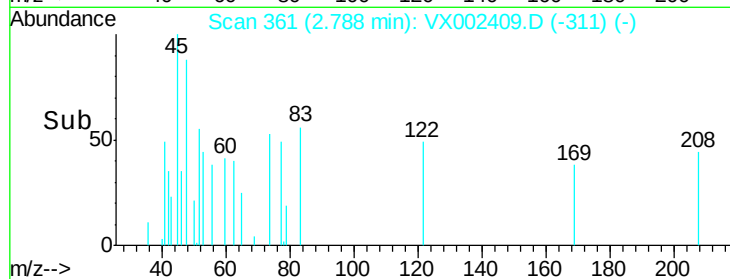
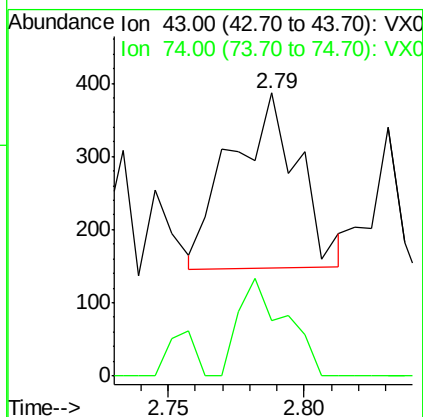
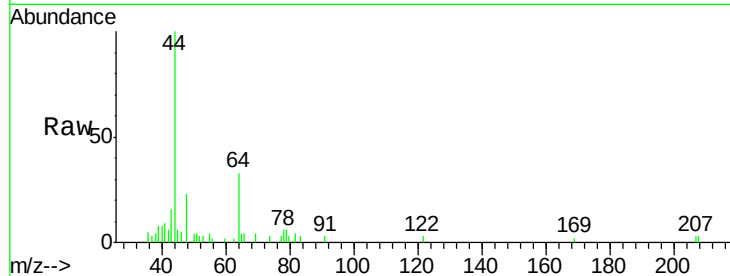




#18
Methyl Acetate
Concen: Below Cal
RT: 2.79 min Scan# 361
Delta R.T. 0.01 min
Lab File: VX002409.D
Acq: 08 Jun 2018 18:30

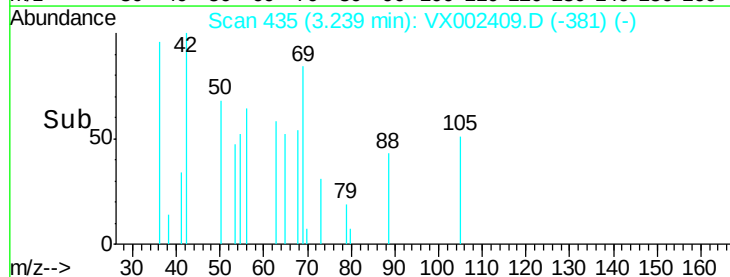
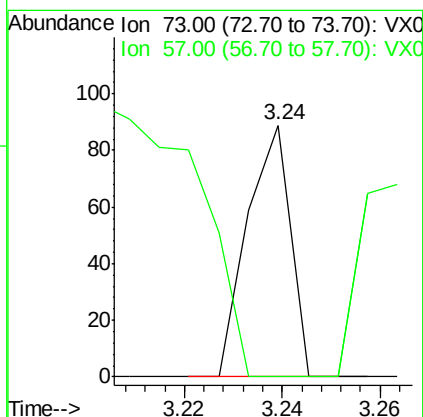
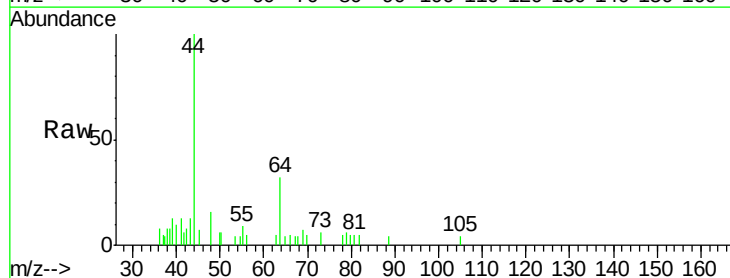
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STORAGEBLANK-SOILREF-5

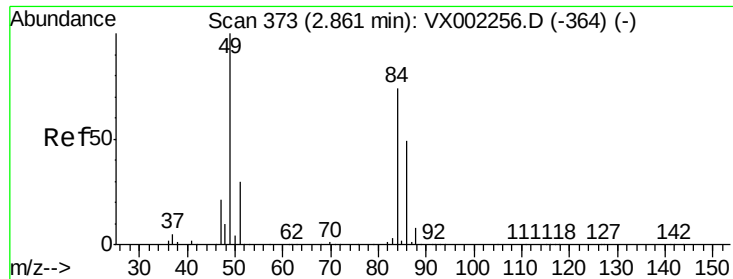
Tot Ion: 43 Resp: 412
Ion Ratio Lower Upper
43 100
74 38.6 16.7 25.1#



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.24 min Scan# 435
Delta R.T. 0.03 min
Lab File: VX002409.D
Acq: 08 Jun 2018 18:30

Tgt Ion: 73 Resp: 54
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#

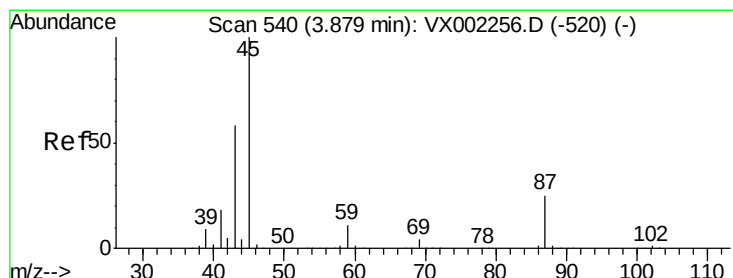
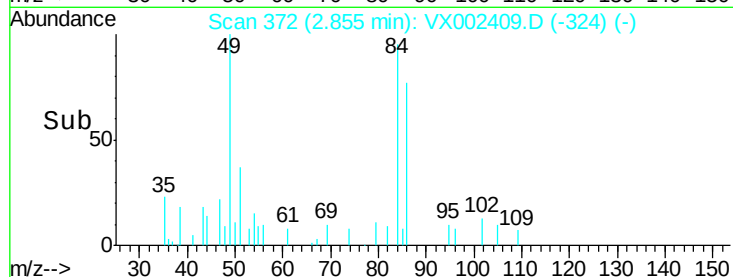
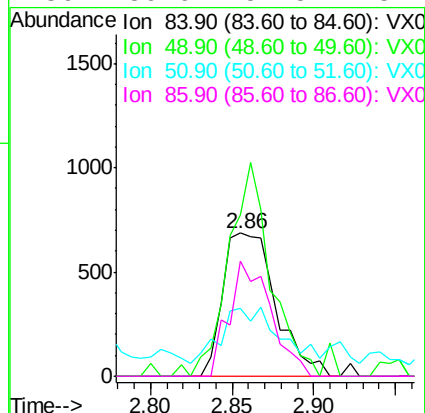
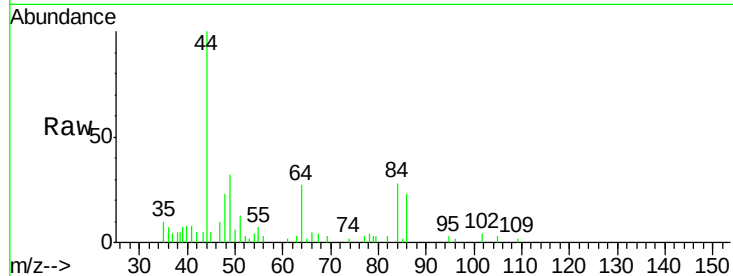




#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX002409.D
Acq: 08 Jun 2018 18:30

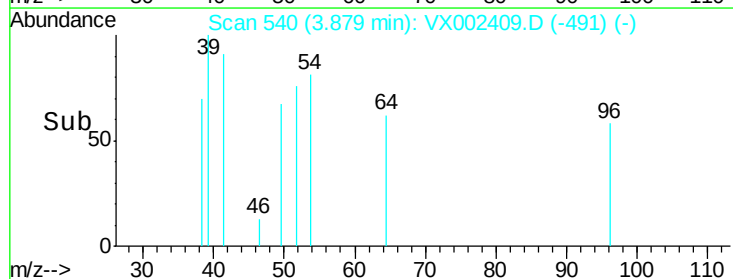
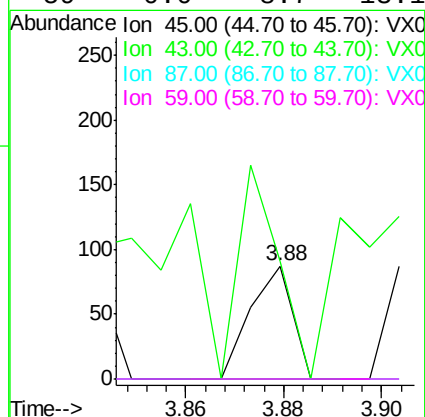
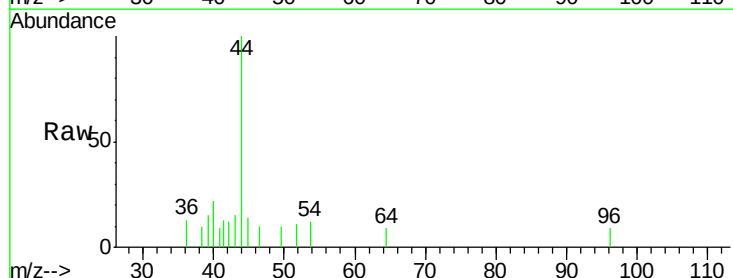
Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-SOILREF-5

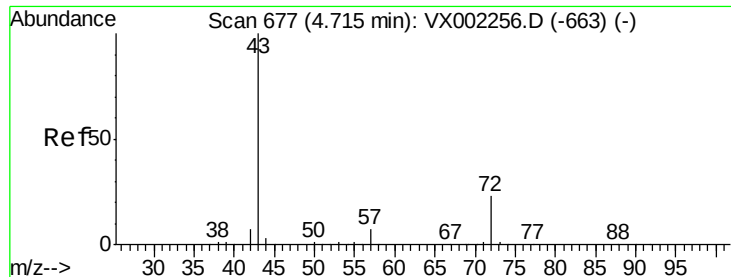
Tot Ion: 84 Resp: 1557
Ion Ratio Lower Upper
84 100
49 113.1 107.8 161.6
51 38.7 32.8 49.2
86 80.6 52.5 78.7#



#22
Diisopropyl ether
Concen: Below Cal
RT: 3.88 min Scan# 540
Delta R.T. 0.00 min
Lab File: VX002409.D
Acq: 08 Jun 2018 18:30

Tgt Ion: 45 Resp: 52
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#





#25

2-Butanone

Concen: 0.39 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.01 min

Lab File: VX002409.D

Acq: 08 Jun 2018 18:30

Instrument :

MSVOA_X

ClientSampleId :

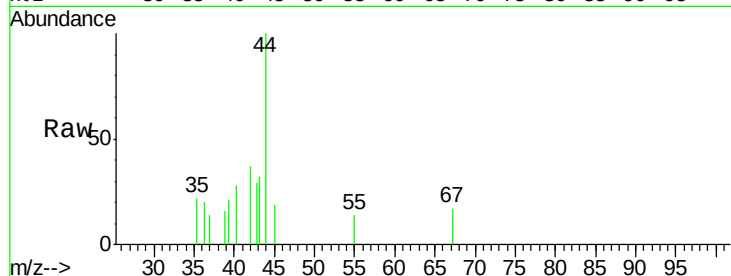
STORAGEBLANK-SOILREF-5

Tot Ion: 43 Resp: 756

Ion Ratio Lower Upper

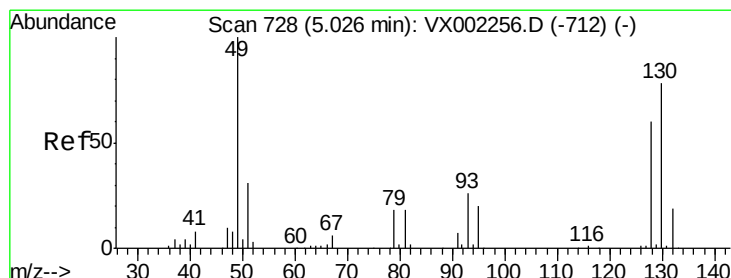
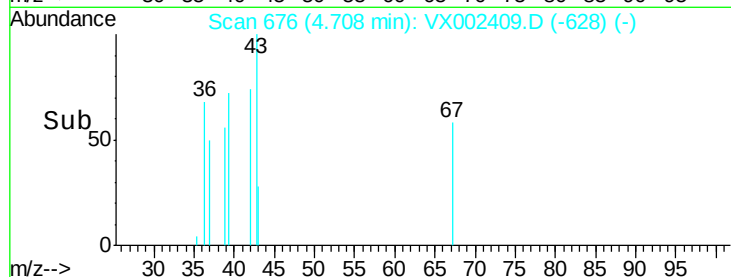
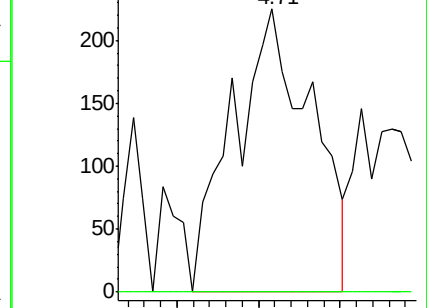
43 100

72 0.0 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 4.95 min Scan# 715

Delta R.T. -0.08 min

Lab File: VX002409.D

Acq: 08 Jun 2018 18:30

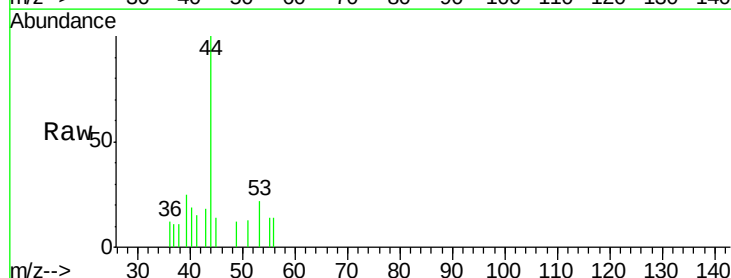
Tgt Ion: 49 Resp: 22

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

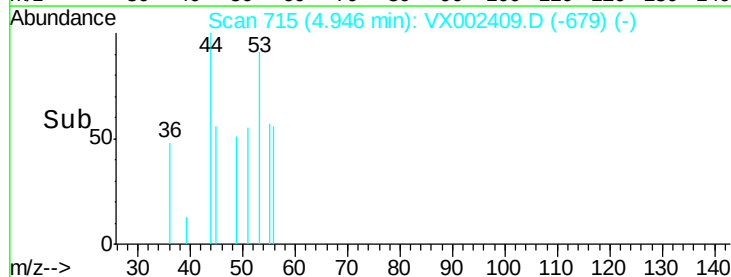
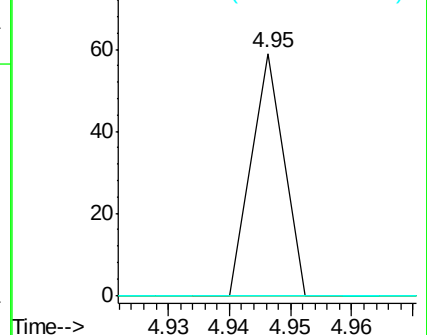
130 0.0 61.2 91.8#

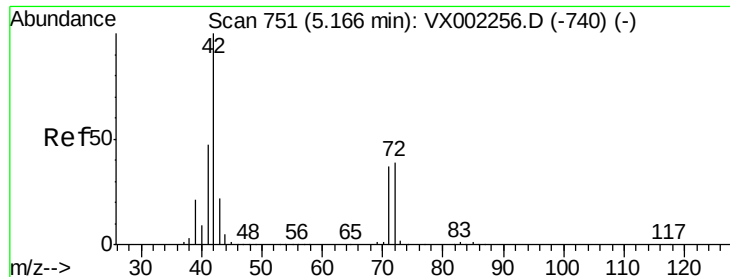


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 0.35 ug/l

RT: 5.19 min Scan# 755

Delta R.T. 0.02 min

Lab File: VX002409.D

Acq: 08 Jun 2018 18:30

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-5

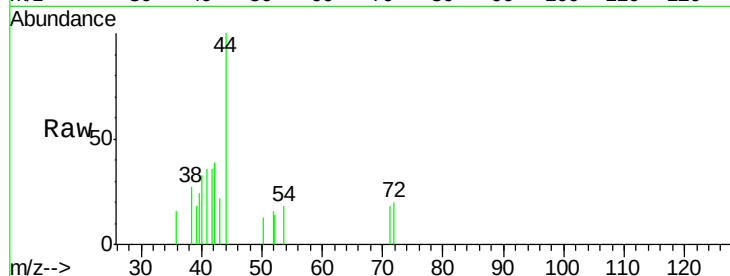
Tot Ion: 42 Resp: 445

Ion Ratio Lower Upper

42 100

72 34.2 32.0 48.0

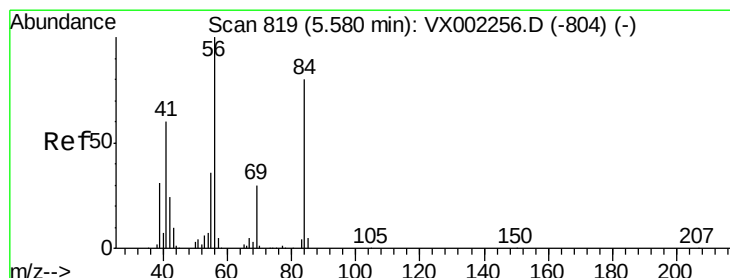
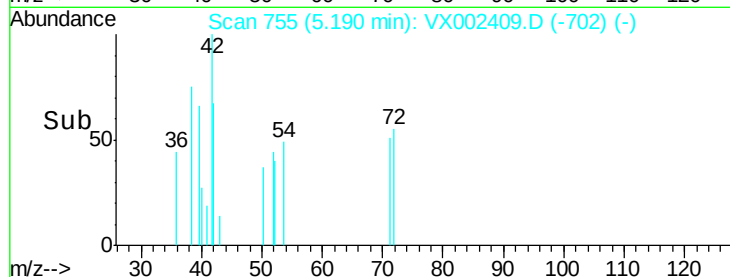
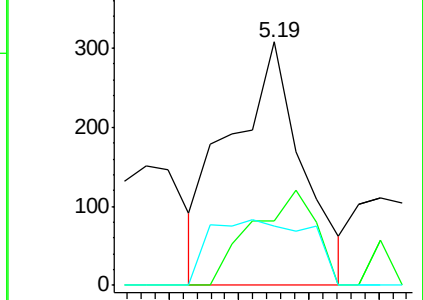
71 37.3 30.1 45.1



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



#31

Cyclohexane

Concen: 1.23 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX002409.D

Acq: 08 Jun 2018 18:30

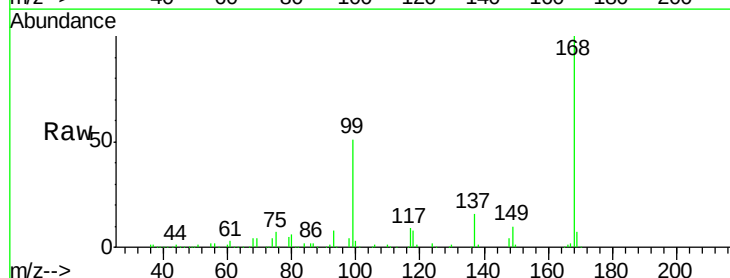
Tgt Ion: 56 Resp: 4435

Ion Ratio Lower Upper

56 100

69 175.2 23.7 35.5#

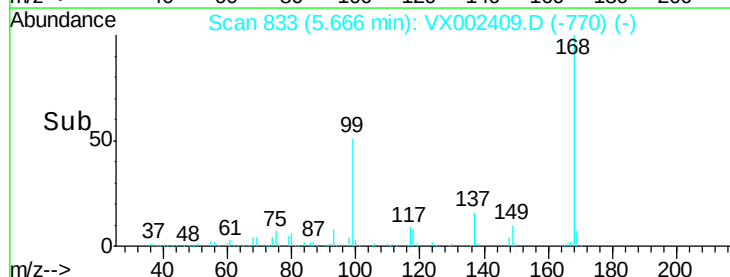
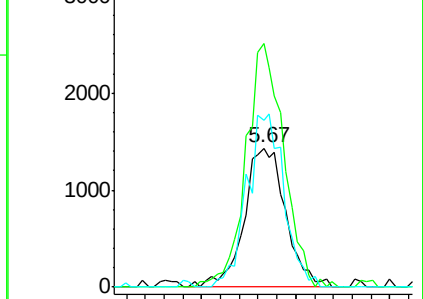
84 120.2 64.1 96.1#

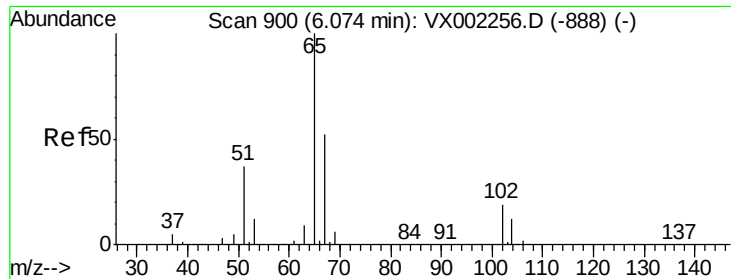


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

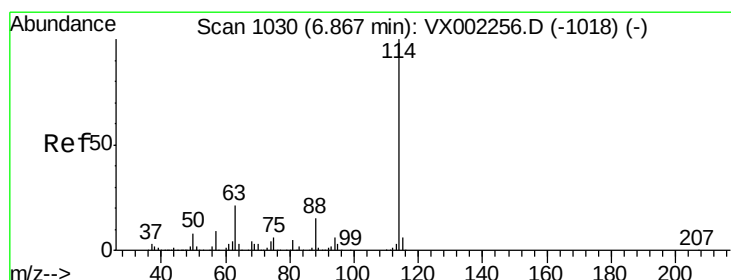
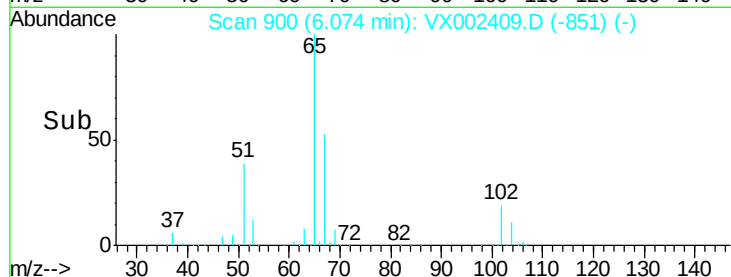
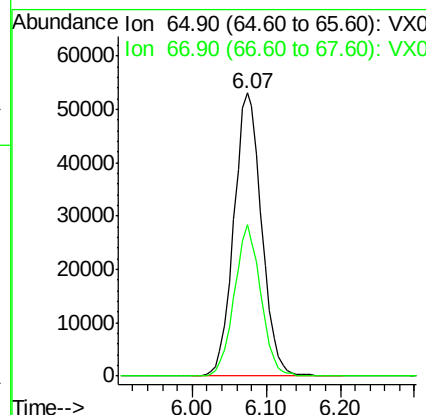
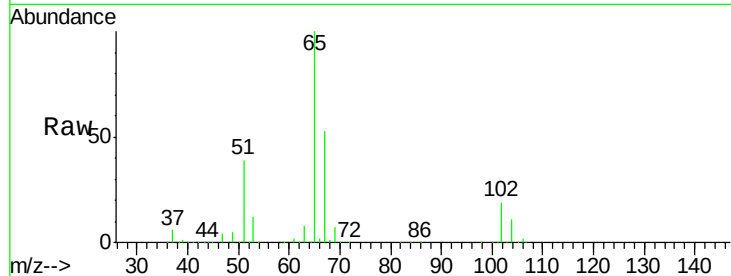




#33
 1,2-Dichloroethane-d4
 Concen: 48.50 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002409.D
 Acq: 08 Jun 2018 18:30

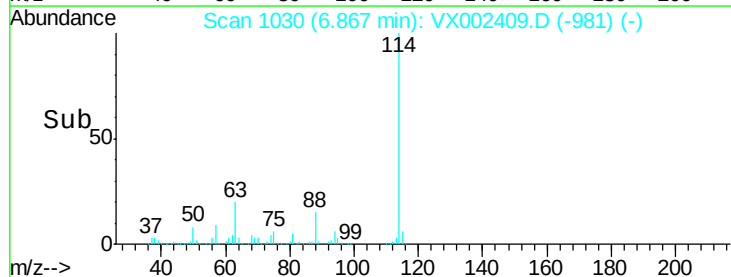
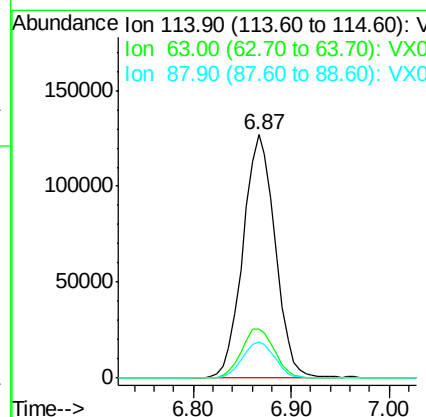
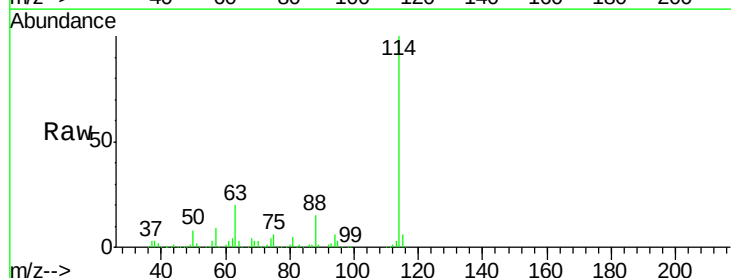
Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGEBLANK-SOILREF-5

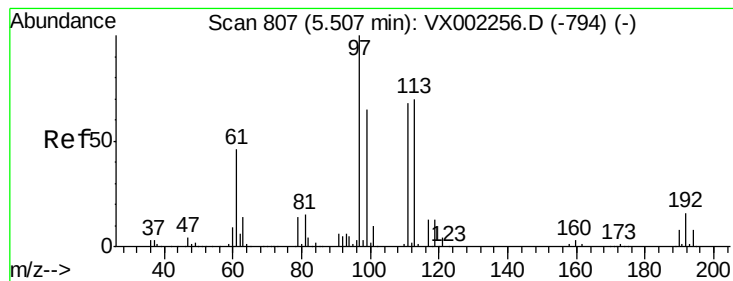
Tot Ion: 65 Resp: 138528
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002409.D
 Acq: 08 Jun 2018 18:30

Tgt Ion: 114 Resp: 290395
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 41.4
 88 15.1 0.0 30.0





#35

Dibromofluoromethane

Concen: 44.89 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002409.D

Acq: 08 Jun 2018 18:30

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-5

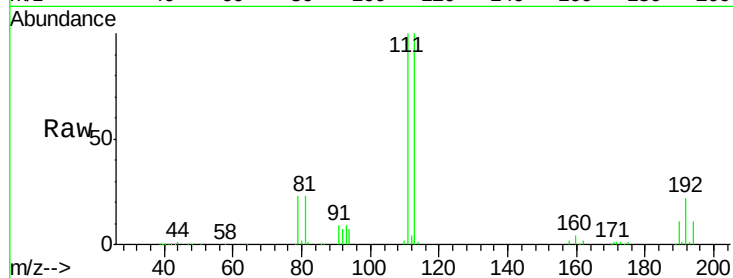
Tot Ion:113 Resp: 102514

Ion Ratio Lower Upper

113 100

111 103.0 81.4 122.0

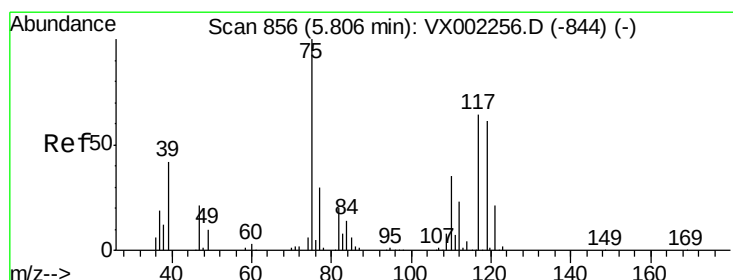
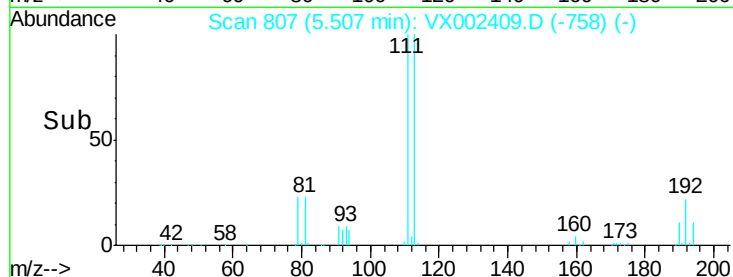
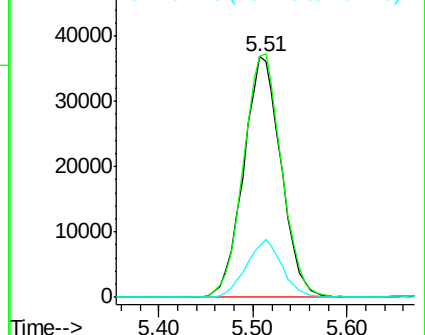
192 22.9 19.1 28.7



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: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX002409.D

Acq: 08 Jun 2018 18:30

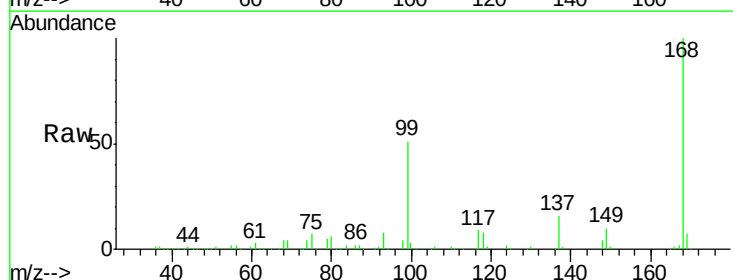
Tgt Ion: 75 Resp: 13854

Ion Ratio Lower Upper

75 100

110 10.8 18.1 54.4#

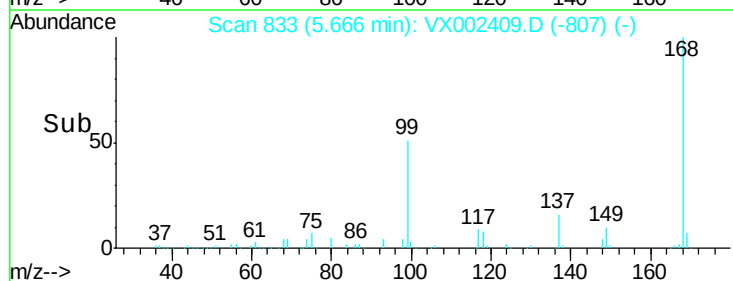
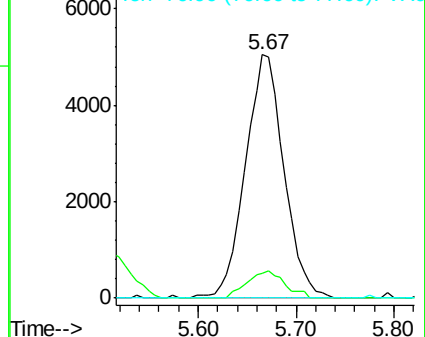
77 0.0 24.3 36.5#

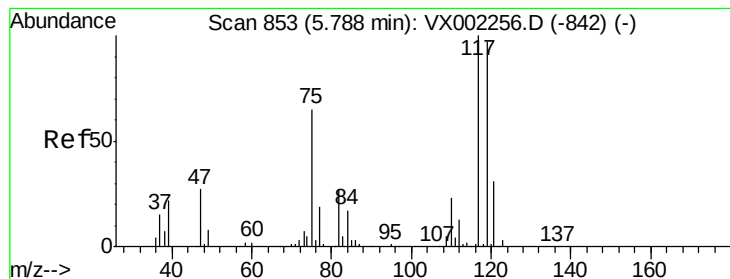


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.75 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002409.D

Acq: 08 Jun 2018 18:30

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-SOILREF-5

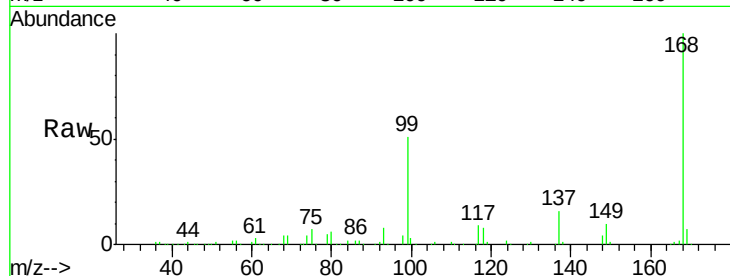
Tot Ion:117 Resp: 18352

Ion Ratio Lower Upper

117 100

119 5.9 77.4 116.0#

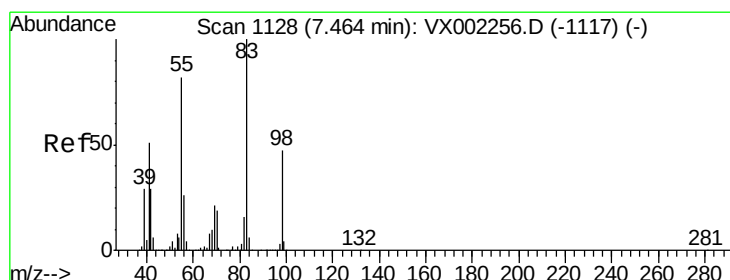
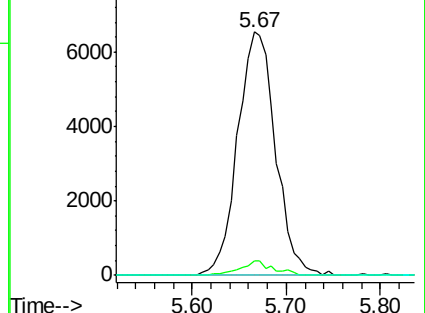
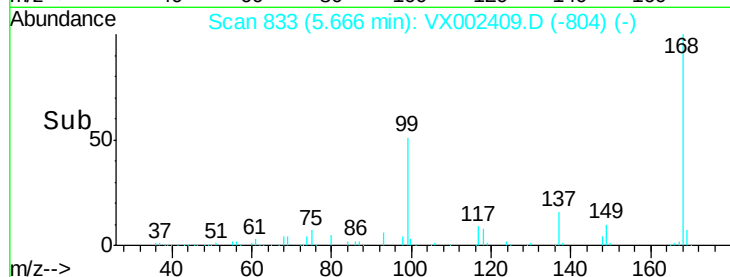
121 0.0 24.4 36.6#



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



#39

Methylcyclohexane

Concen: 0.27 ug/l

RT: 7.20 min Scan# 1085

Delta R.T. -0.26 min

Lab File: VX002409.D

Acq: 08 Jun 2018 18:30

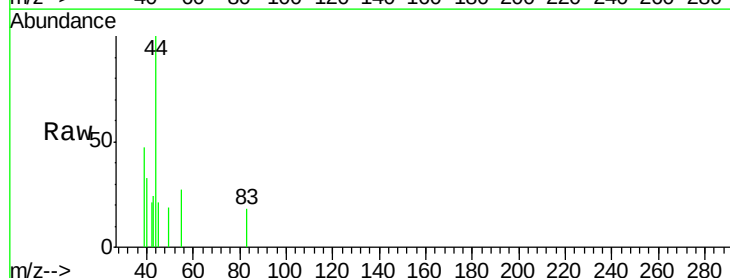
Tgt Ion: 83 Resp: 19

Ion Ratio Lower Upper

83 100

55 147.1 65.4 98.0#

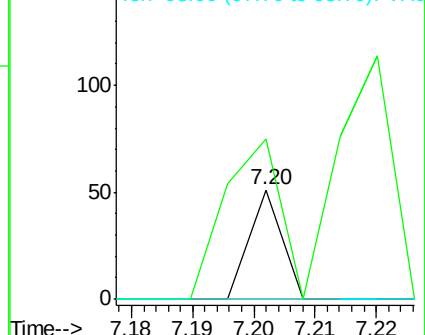
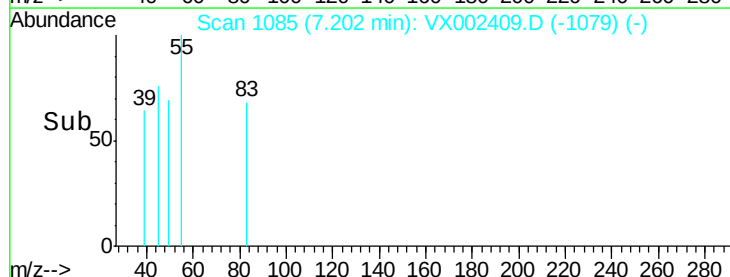
98 0.0 37.4 56.0#

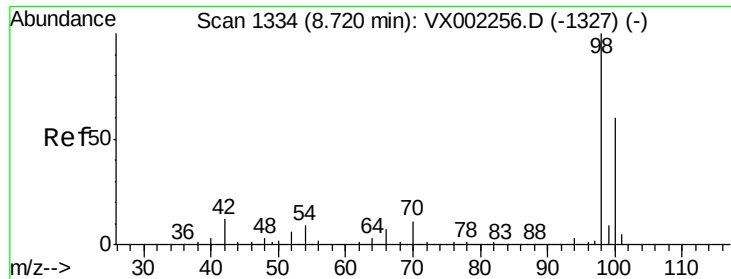


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

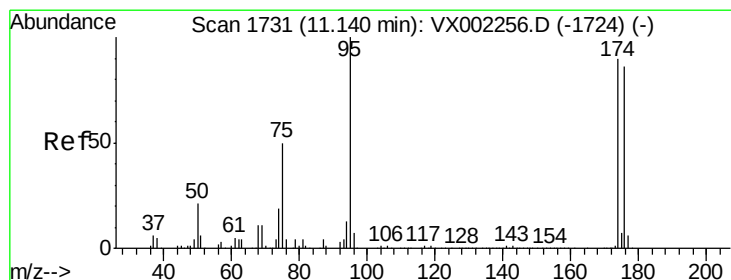
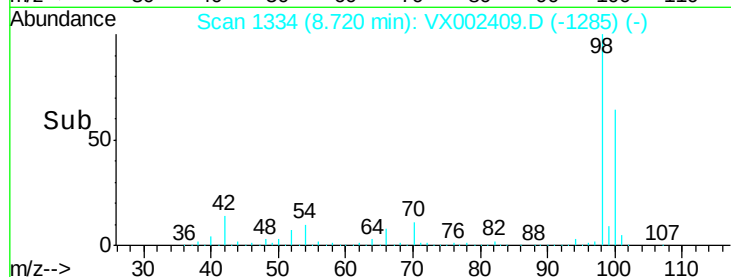
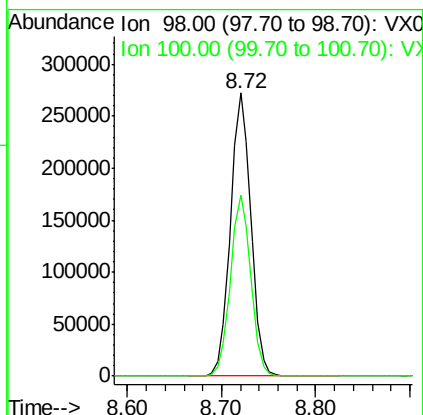
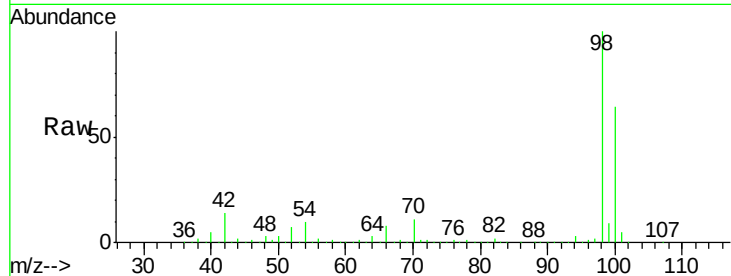




#50
Toluene-d8
Concen: 46.83 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002409.D
Acq: 08 Jun 2018 18:30

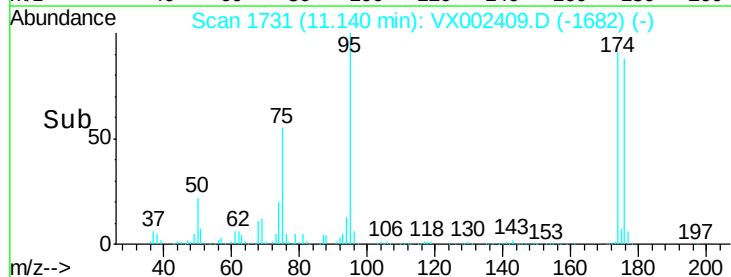
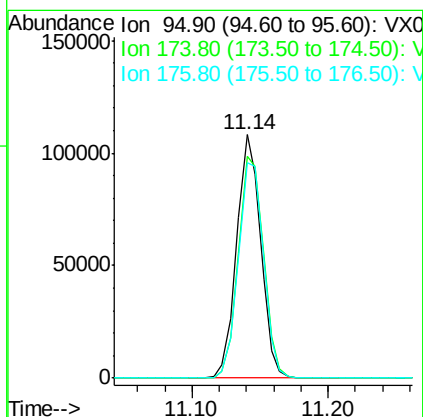
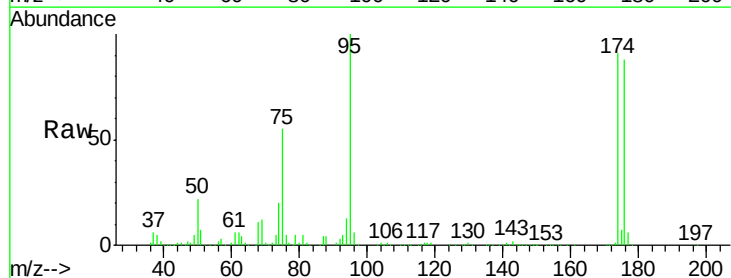
Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-SOILREF-5

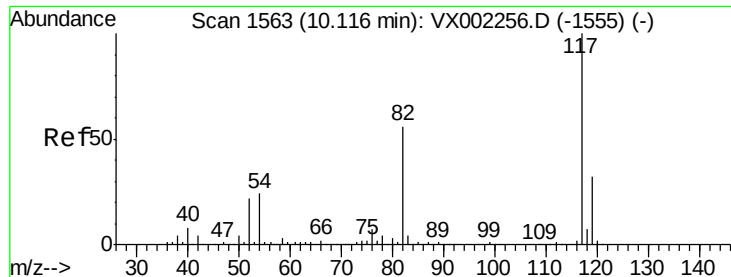
Tot Ion: 98 Resp: 409908
Ion Ratio Lower Upper
98 100
100 63.6 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 39.48 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002409.D
Acq: 08 Jun 2018 18:30

Tgt Ion: 95 Resp: 133263
Ion Ratio Lower Upper
95 100
174 95.9 0.0 187.4
176 93.3 0.0 181.0

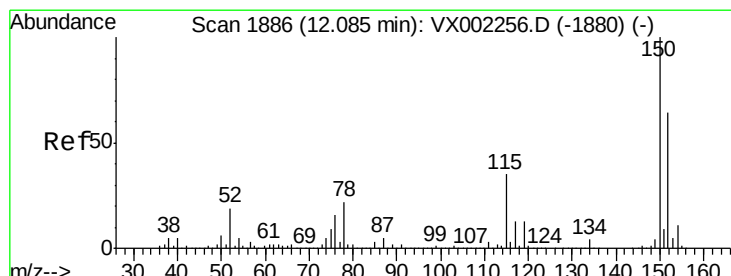
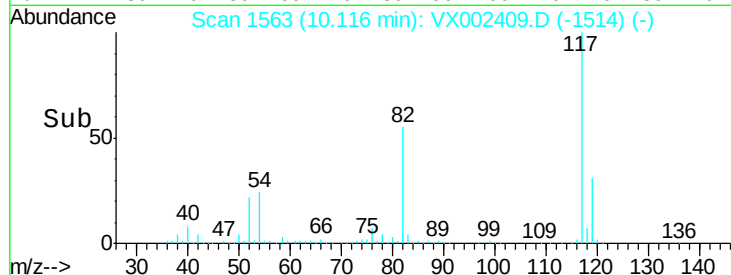
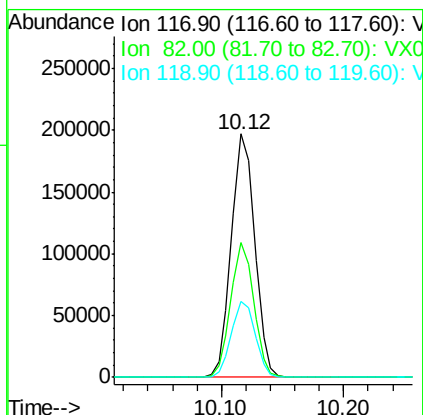
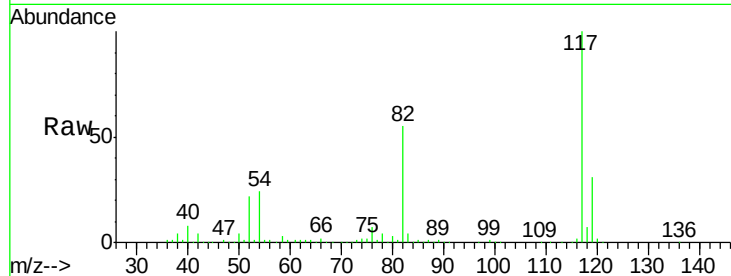




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002409.D
Acq: 08 Jun 2018 18:30

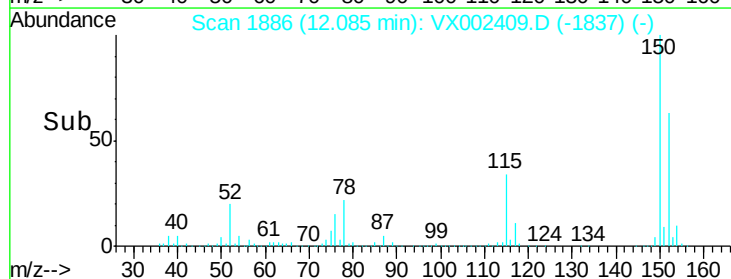
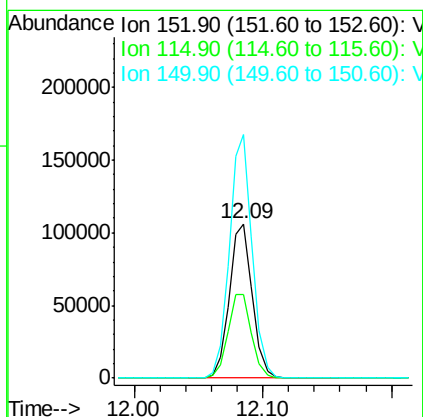
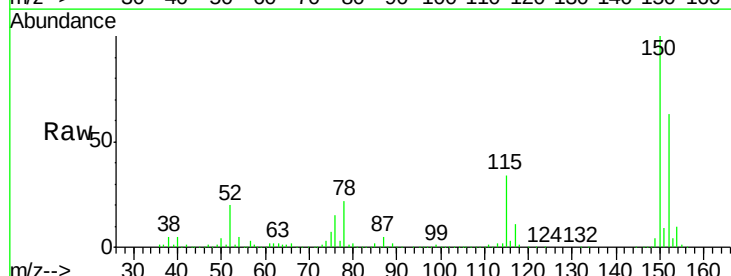
Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-SOILREF-5

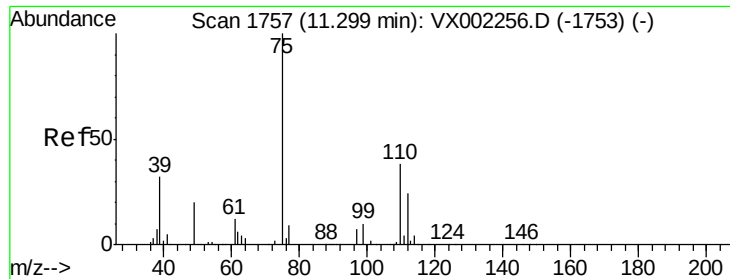
Tot Ion:117 Resp: 261353
Ion Ratio Lower Upper
117 100
82 55.2 45.0 67.4
119 31.3 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002409.D
Acq: 08 Jun 2018 18:30

Tgt Ion:152 Resp: 132543
Ion Ratio Lower Upper
152 100
115 56.0 40.1 120.2
150 155.6 0.0 347.2





#76

1,2,3-Trichloropropane

Concen: 25.17 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002409.D

Acq: 08 Jun 2018 18:30

Instrument :

MSVOA_X

ClientSampleId :

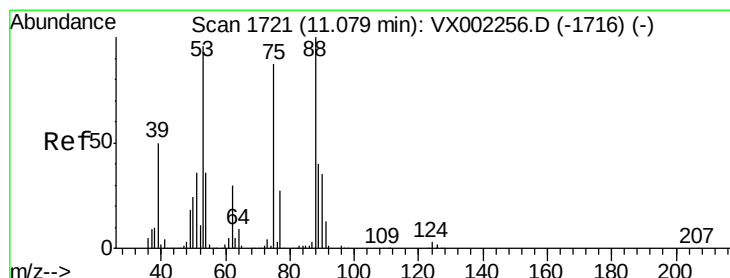
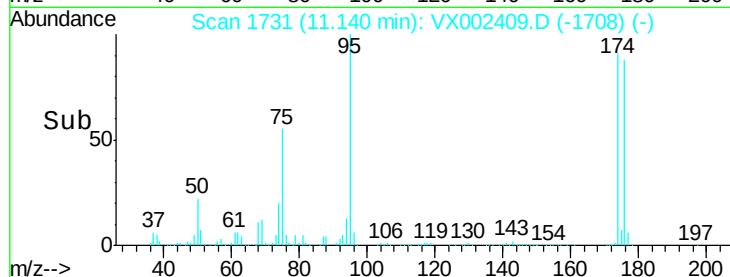
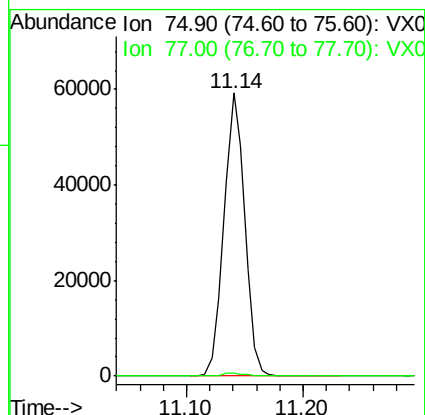
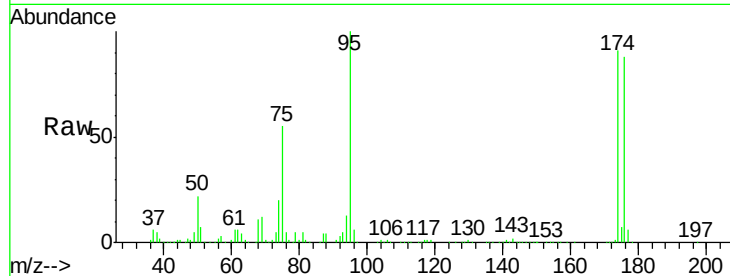
STORAGEBLANK-SOILREF-5

Tot Ion: 75 Resp: 73204

Ion Ratio Lower Upper

75 100

77 1.2 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 88.23 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002409.D

Acq: 08 Jun 2018 18:30

Tgt Ion: 75 Resp: 73204

Ion Ratio Lower Upper

75 100

53 0.0 86.8 130.2#

89 0.0 38.2 57.2#

