

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060818\
 Data File : VX002410.D
 Acq On : 08 Jun 2018 18:57
 Operator : JC/MD
 Sample : J3407-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGEBLANK-WATERREF-4

Quant Time: Jun 09 01:51:30 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	206186	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	303831	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	277650	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	151733	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	146706	49.74	ug/l	0.00
Spiked Amount			Recovery	=	99.48%	
35) Dibromofluoromethane	5.51	113	108833	45.55	ug/l	0.00
Spiked Amount			Recovery	=	91.10%	
50) Toluene-d8	8.72	98	433776	47.36	ug/l	0.00
Spiked Amount			Recovery	=	94.72%	
62) 4-Bromofluorobenzene	11.14	95	147003	41.63	ug/l	0.00
Spiked Amount			Recovery	=	83.26%	

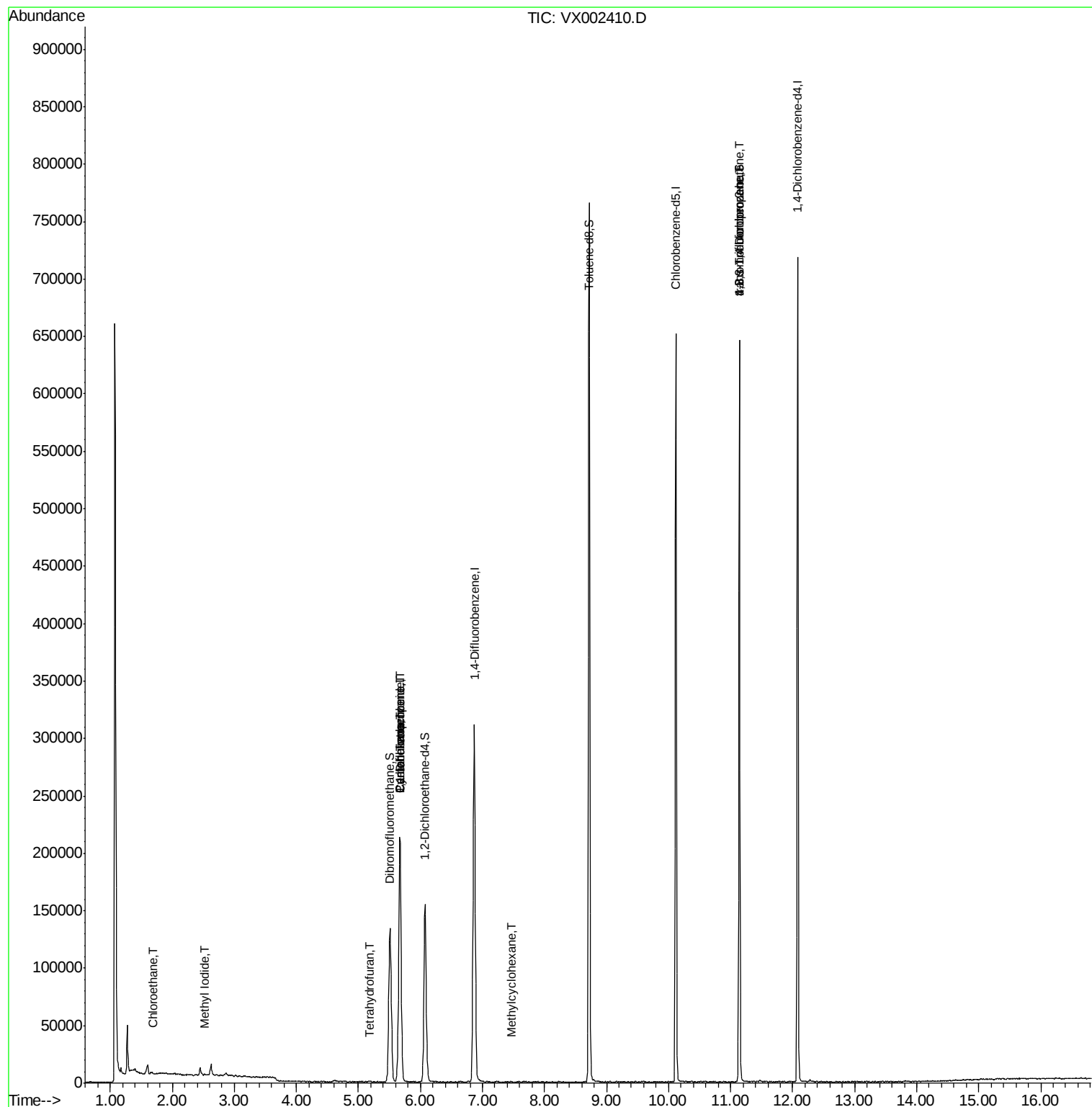
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	812	Below Cal	#	87
5) Bromomethane	1.65	94	1365	Below Cal		91
6) Chloroethane	1.70	64	1777	1.02	ug/l	52
8) Diethyl Ether	2.23	74	19	Below Cal	#	1
10) Methyl Iodide	2.52	142	1321	0.42	ug/l	93
11) Tert butyl alcohol	3.07	59	178	Below Cal	#	1
13) Acrolein	2.29	56	75	Below Cal	#	14
15) Acrylonitrile	3.15	53	320	Below Cal	#	72
16) Acetone	2.45	43	6342	Below Cal		95
18) Methyl Acetate	2.77	43	232	Below Cal	#	49
19) Methyl tert-butyl Ether	3.14	73	23	Below Cal	#	1
20) Methylene Chloride	2.86	84	1069	Below Cal		94
22) Diisopropyl ether	3.89	45	72	Below Cal	#	53
28) Bromochloromethane	5.06	49	21	Below Cal	#	13
29) Tetrahydrofuran	5.18	42	920	0.71	ug/l	59
31) Cyclohexane	5.67	56	4641	1.25	ug/l	1
36) 1,1-Dichloropropene	5.67	75	14962	4.68	ug/l	50
38) Carbon Tetrachloride	5.67	117	19630	5.87	ug/l	14
39) Methylcyclohexane	7.46	83	121	0.29	ug/l	25
76) 1,2,3-Trichloropropane	11.14	75	79731	23.95	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	79731	83.94	ug/l	6

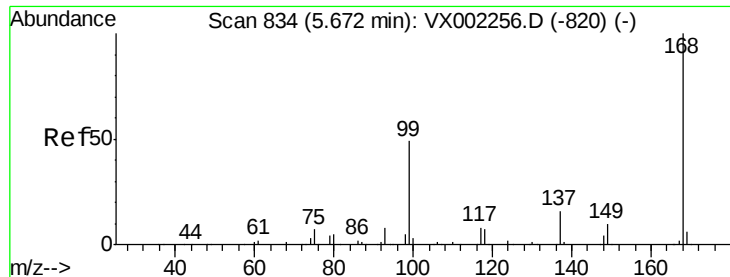
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002410.D

Acq: 08 Jun 2018 18:57

Instrument :

MSVOA_X

ClientSampleId :

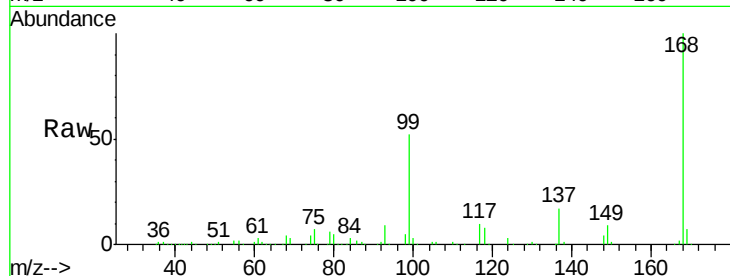
STORAGEBLANK-WATERREF-4

Tot Ion:168 Resp: 206186

Ion Ratio Lower Upper

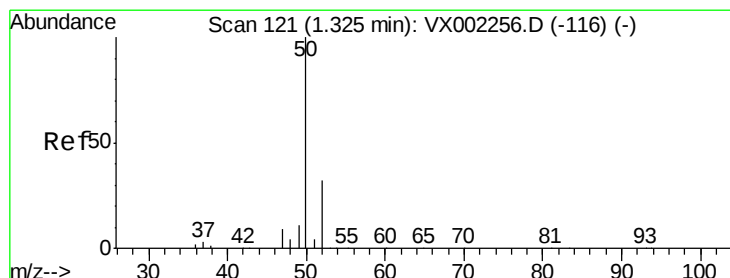
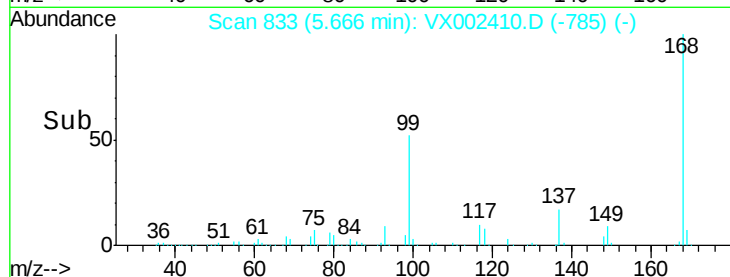
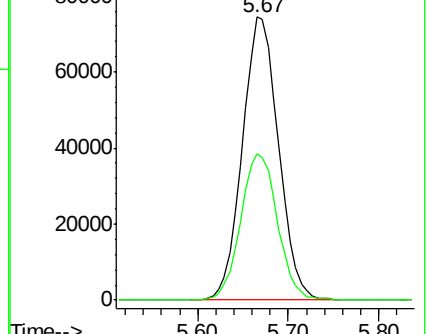
168 100

99 51.6 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: VX002410.D

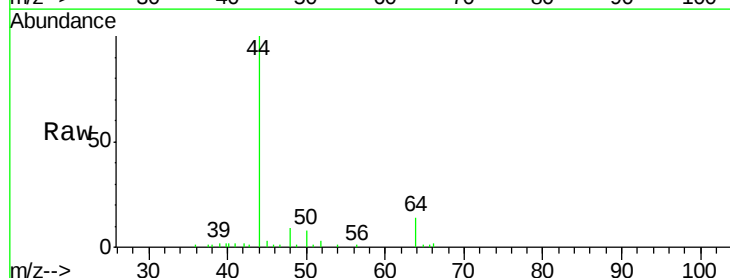
Acq: 08 Jun 2018 18:57

Tgt Ion: 50 Resp: 812

Ion Ratio Lower Upper

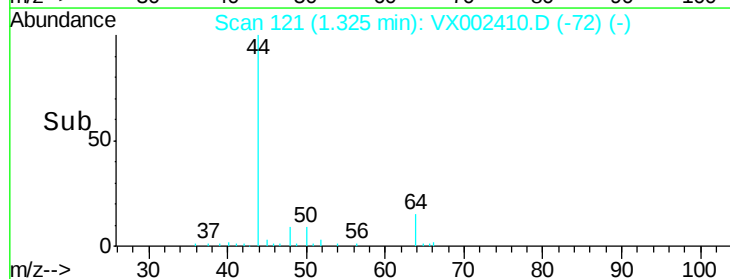
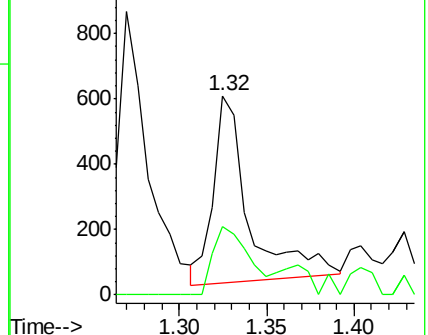
50 100

52 39.4 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# 174

Delta R.T. 0.01 min

Lab File: VX002410.D

Acq: 08 Jun 2018 18:57

Instrument :

MSVOA_X

ClientSampleId :

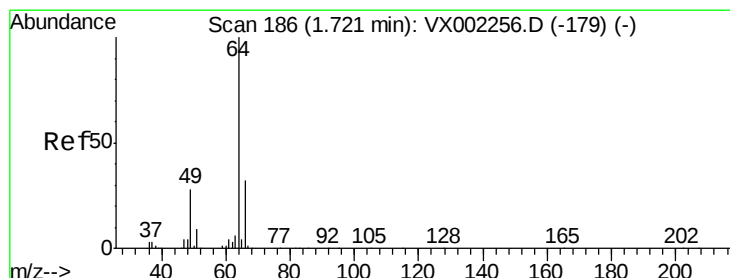
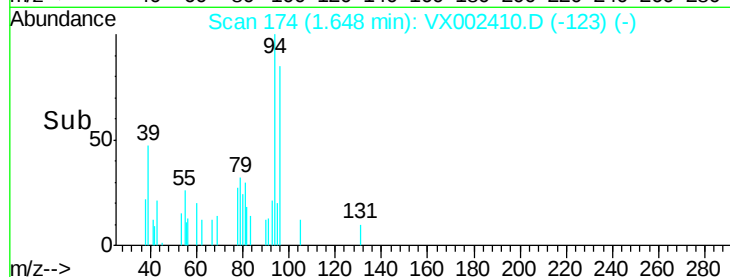
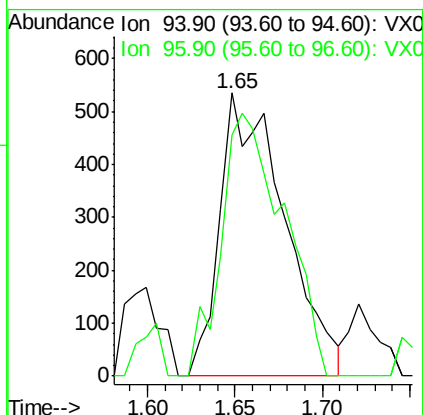
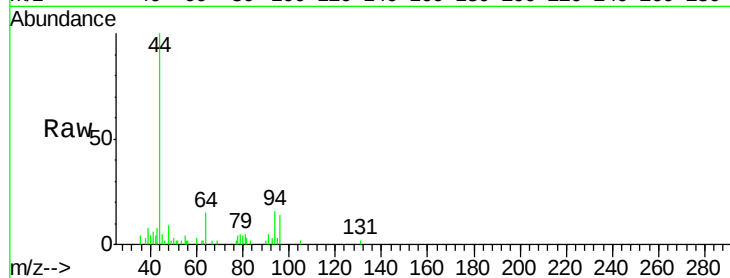
STORAGEBLANK-WATERREF-4

Tot Ion: 94 Resp: 1365

Ion Ratio Lower Upper

94 100

96 85.0 74.9 112.3



#6

Chloroethane

Concen: 1.02 ug/l

RT: 1.70 min Scan# 182

Delta R.T. -0.02 min

Lab File: VX002410.D

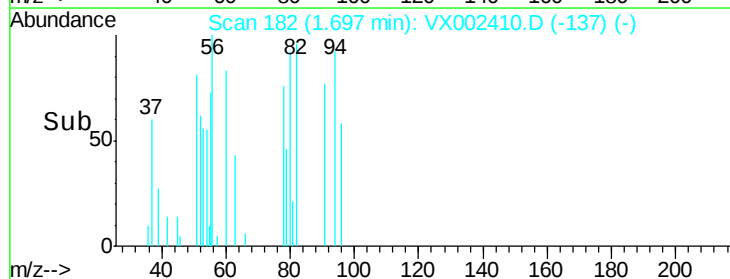
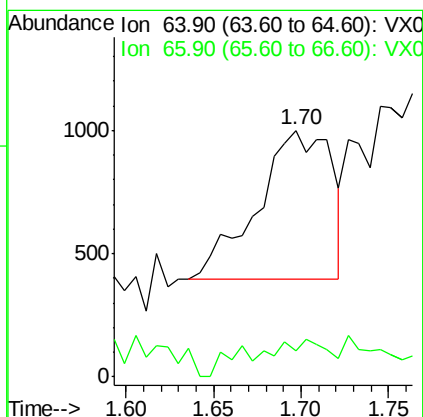
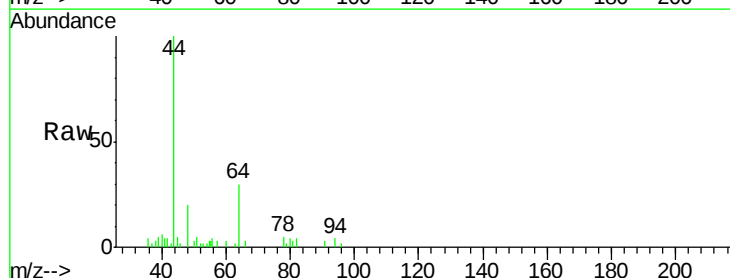
Acq: 08 Jun 2018 18:57

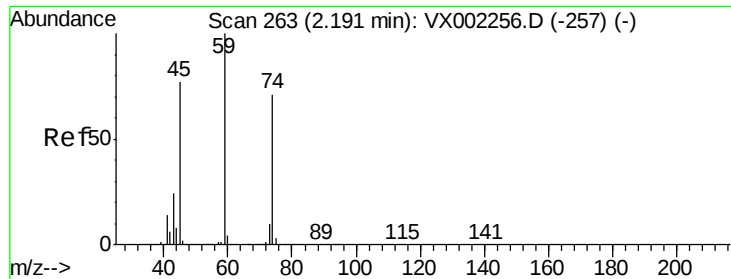
Tgt Ion: 64 Resp: 1777

Ion Ratio Lower Upper

64 100

66 5.3 25.5 38.3#





#8

Diethyl Ether

Concen: Below Cal

RT: 2.23 min Scan# 270

Delta R.T. 0.04 min

Lab File: VX002410.D

Acq: 08 Jun 2018 18:57

Instrument :

MSVOA_X

ClientSampleId :

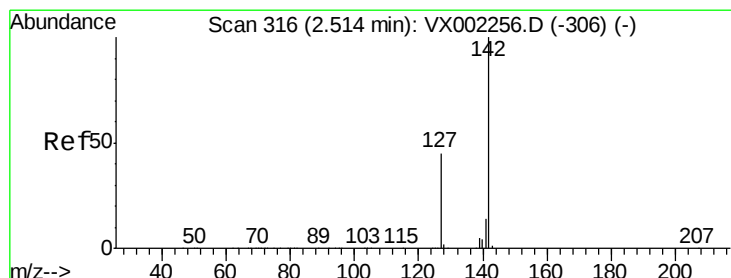
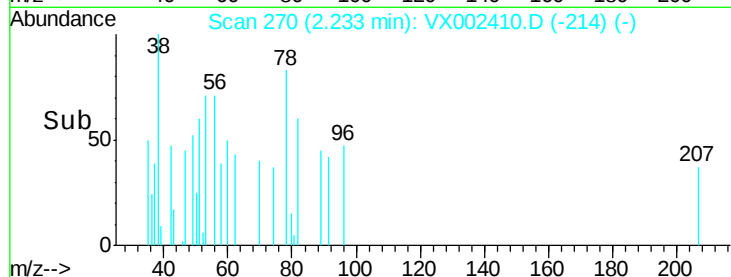
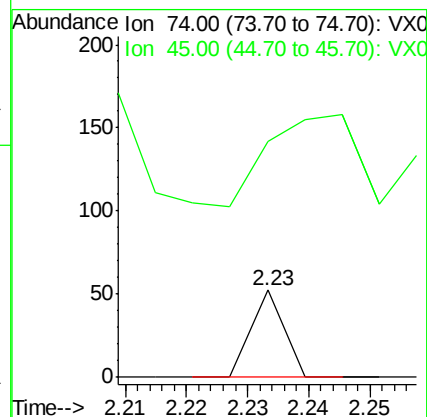
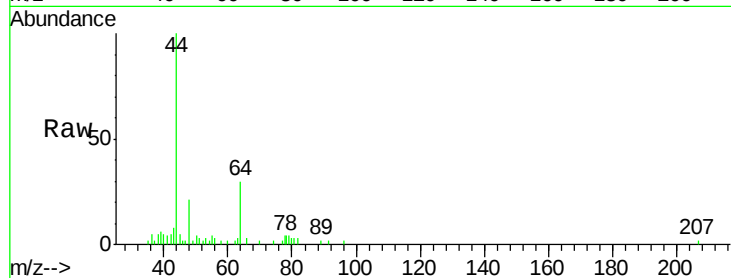
STORAGEBLANK-WATERREF-4

Tot Ion: 74 Resp: 19

Ion Ratio Lower Upper

74 100

45 289.5 53.1 159.4#



#10

Methyl Iodide

Concen: 0.42 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002410.D

Acq: 08 Jun 2018 18:57

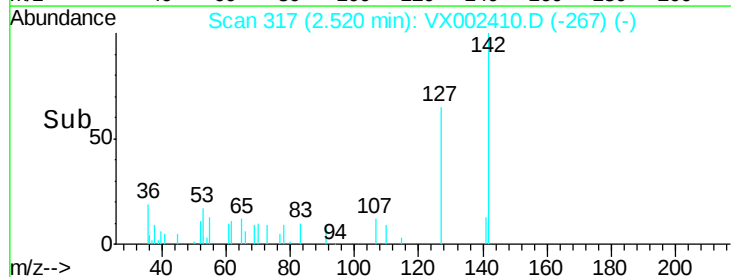
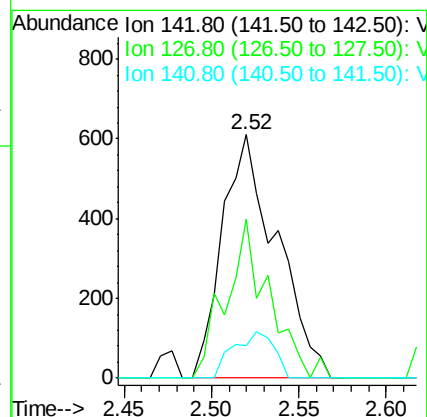
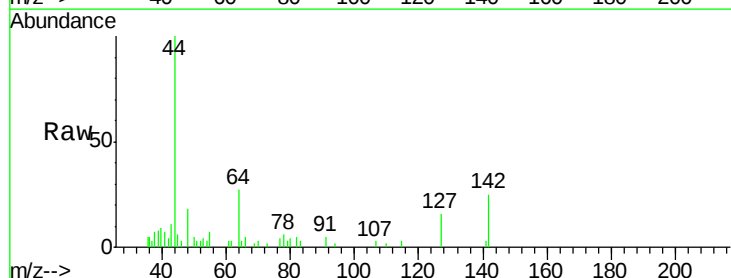
Tgt Ion: 142 Resp: 1321

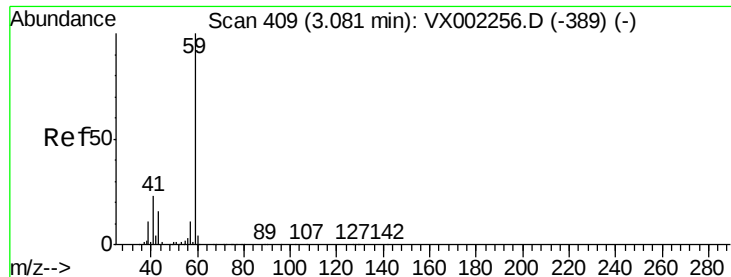
Ion Ratio Lower Upper

142 100

127 51.9 36.6 55.0

141 14.2 11.3 16.9



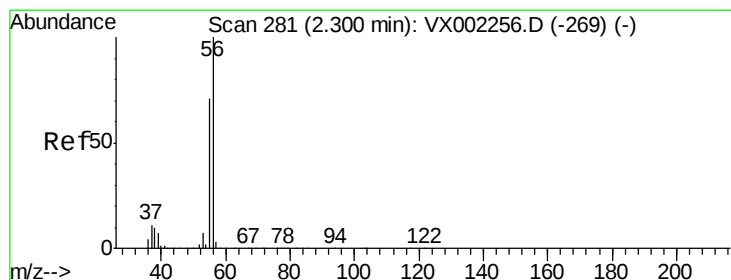
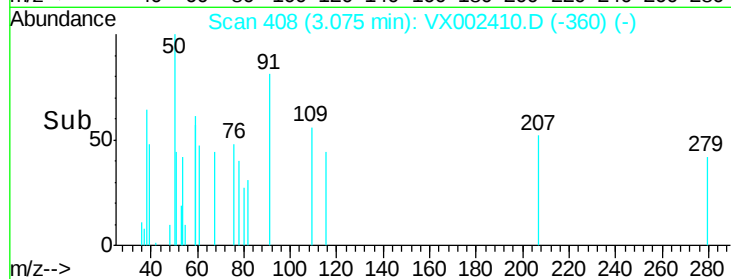
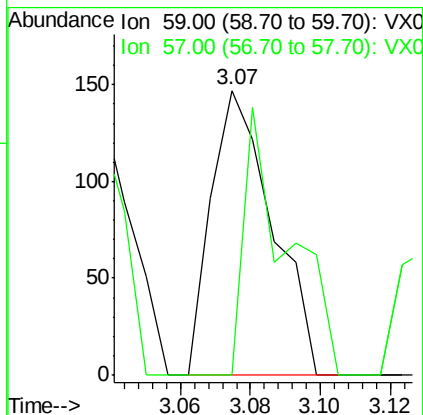
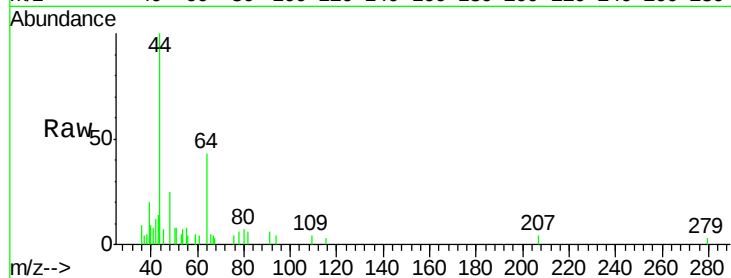


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 3.07 min Scan# 408
 Delta R.T. -0.01 min
 Lab File: VX002410.D
 Acq: 08 Jun 2018 18:57

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGEBLANK-WATERREF-4

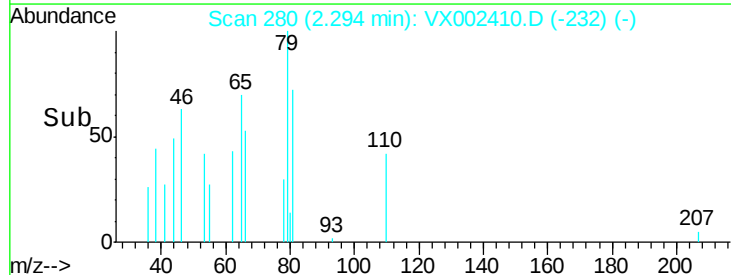
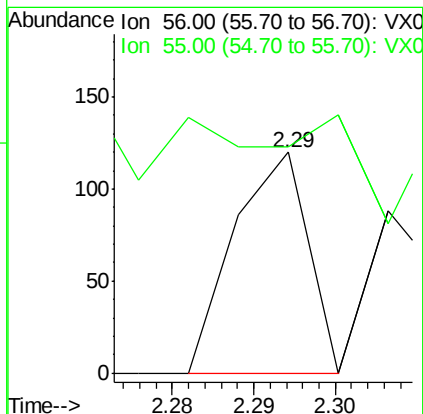
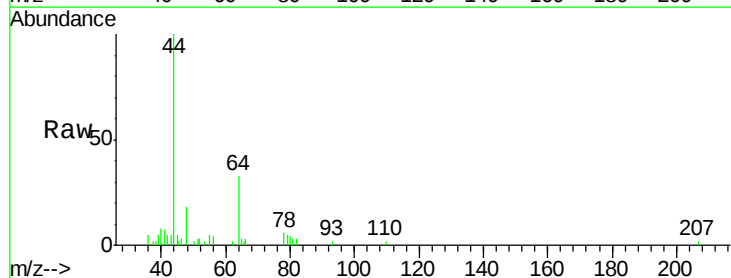
Tot Ion: 59 Resp: 178
 Ion Ratio Lower Upper
 59 100
 57 66.9 8.2 12.2#

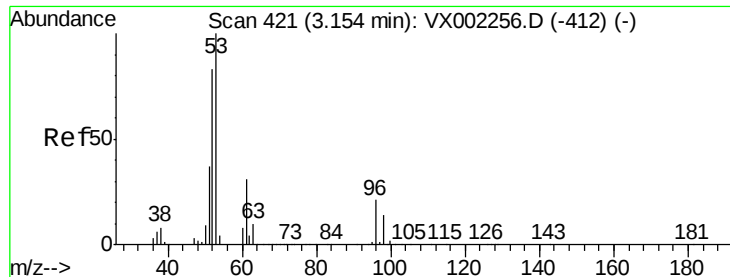


#13

Acrolein
 Concen: Below Cal
 RT: 2.29 min Scan# 280
 Delta R.T. -0.01 min
 Lab File: VX002410.D
 Acq: 08 Jun 2018 18:57

Tgt Ion: 56 Resp: 75
 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: VX002410.D

Acq: 08 Jun 2018 18:57

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-WATERREF-4

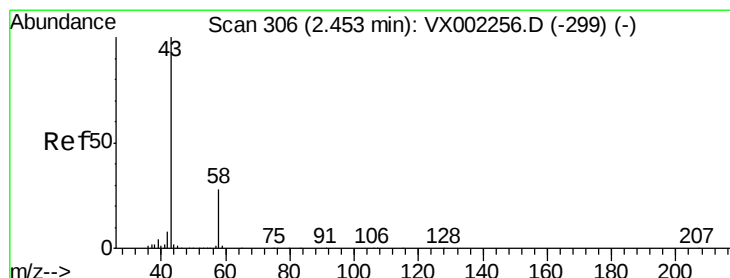
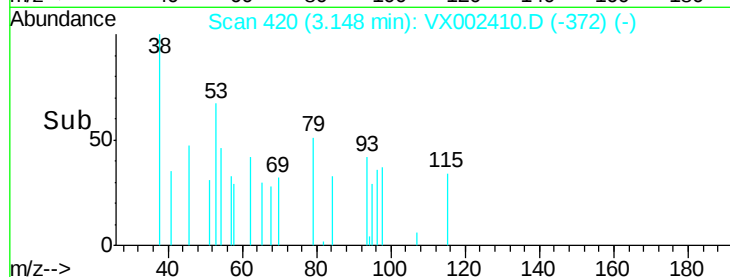
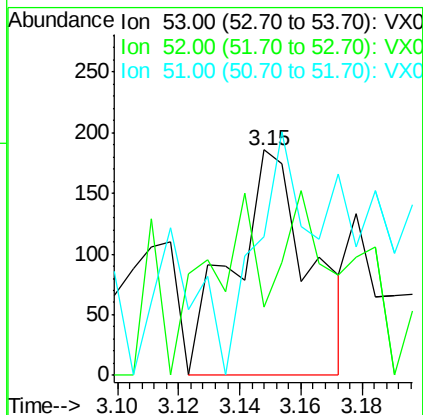
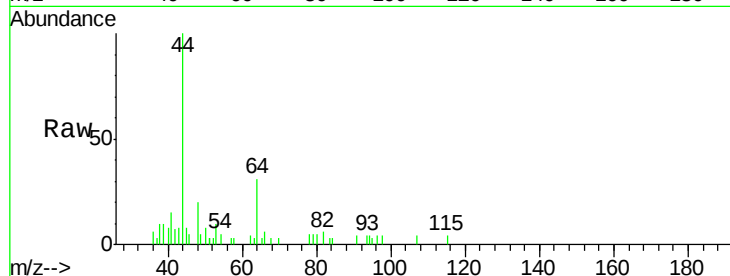
Tot Ion: 53 Resp: 320

Ion Ratio Lower Upper

53 100

52 71.3 66.7 100.1

51 74.1 29.9 44.9#



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002410.D

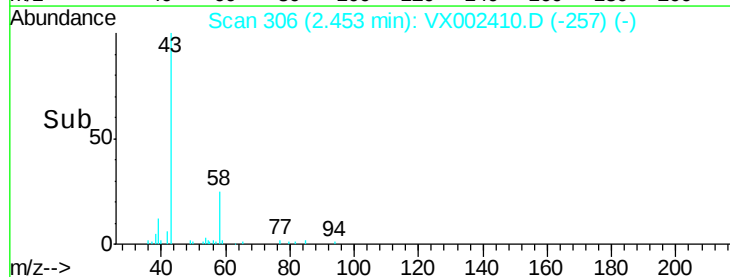
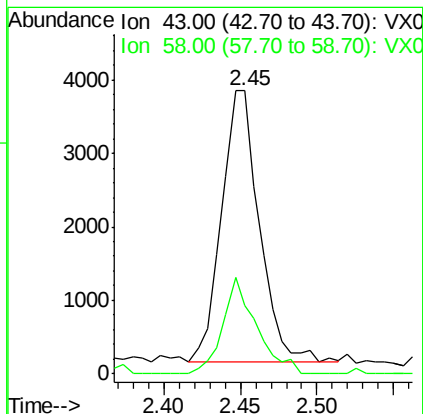
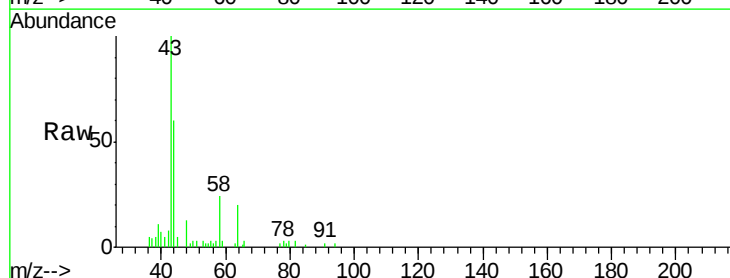
Acq: 08 Jun 2018 18:57

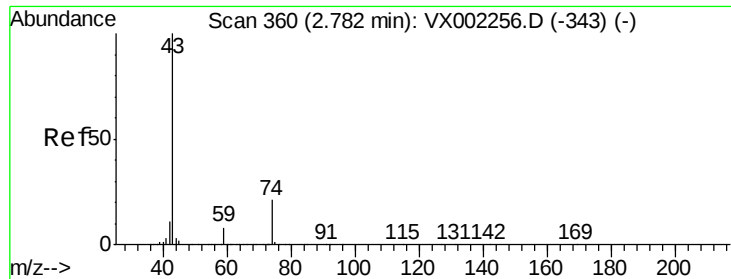
Tgt Ion: 43 Resp: 6342

Ion Ratio Lower Upper

43 100

58 25.1 22.1 33.1

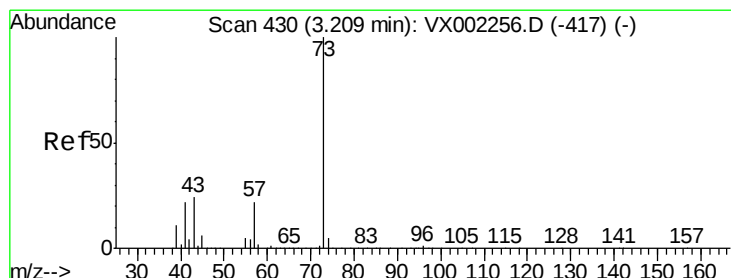
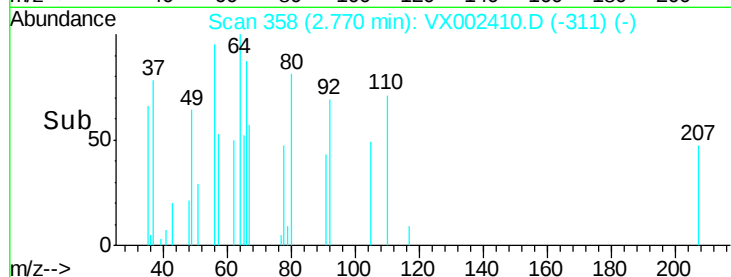
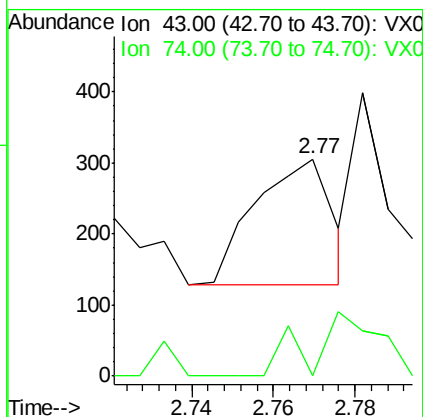
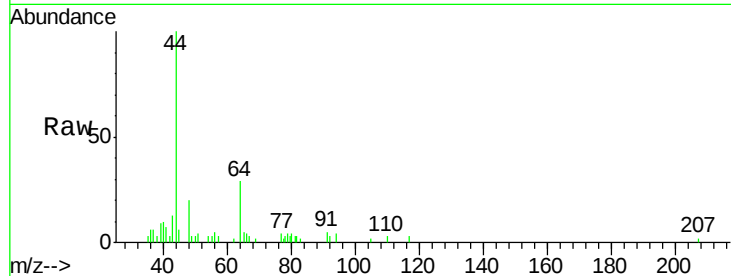




#18
Methyl Acetate
Concen: Below Cal
RT: 2.77 min Scan# 358
Delta R.T. -0.01 min
Lab File: VX002410.D
Acq: 08 Jun 2018 18:57

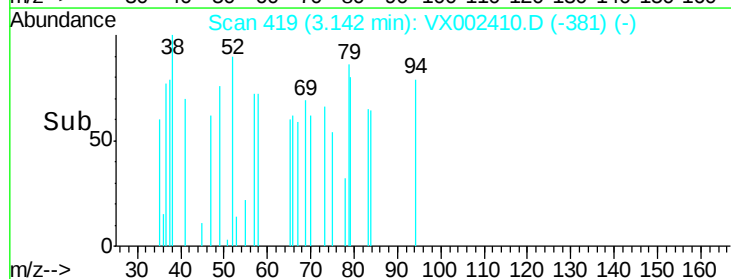
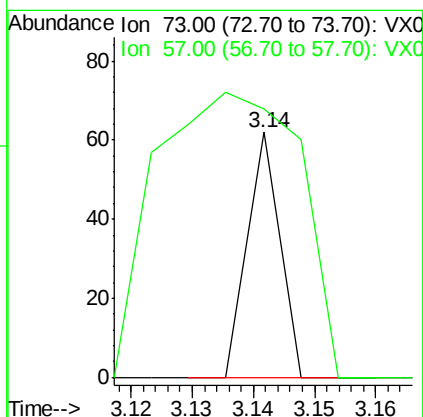
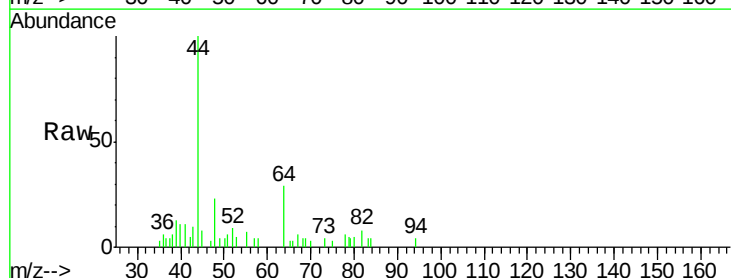
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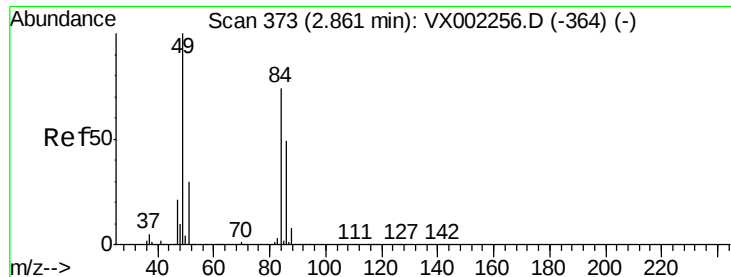
Tot Ion: 43 Resp: 232
Ion Ratio Lower Upper
43 100
74 44.8 16.7 25.1#



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.14 min Scan# 419
Delta R.T. -0.07 min
Lab File: VX002410.D
Acq: 08 Jun 2018 18:57

Tgt Ion: 73 Resp: 23
Ion Ratio Lower Upper
73 100
57 109.7 17.7 26.5#

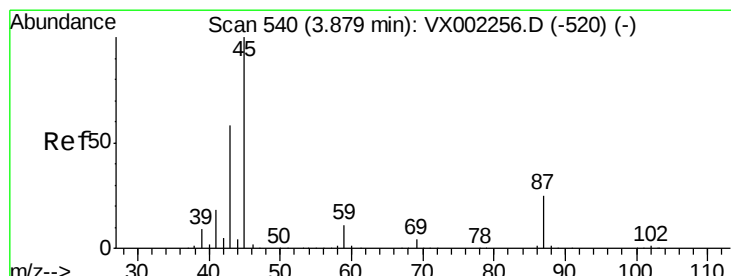
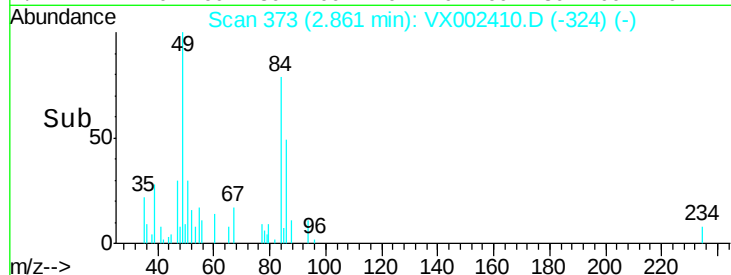
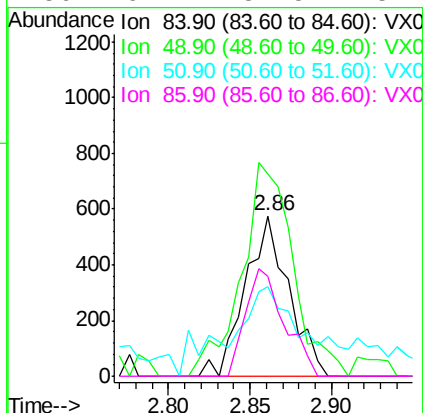
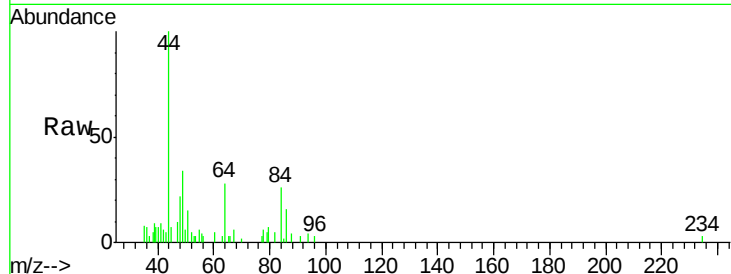




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002410.D
Acq: 08 Jun 2018 18:57

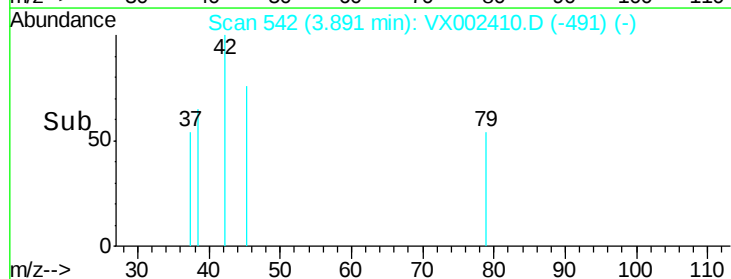
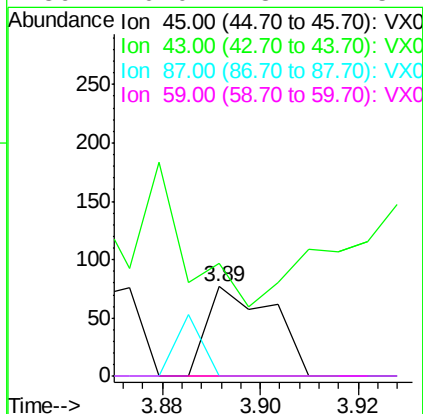
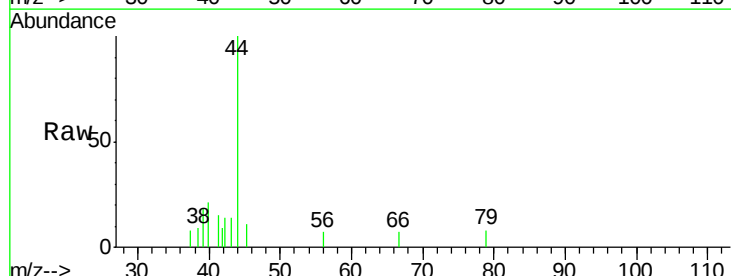
Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-WATERREF-4

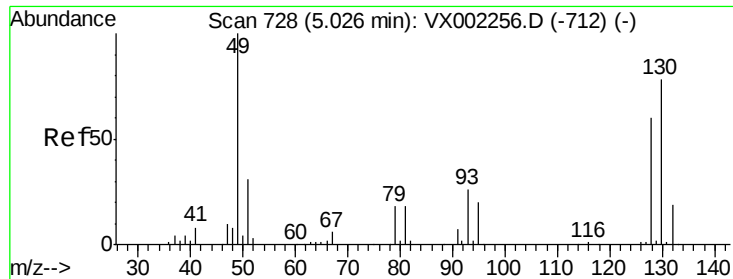
Tot Ion:	84	Resp:	1069
Ion	Ratio	Lower	Upper
84	100		
49	126.4	107.8	161.6
51	37.0	32.8	49.2
86	62.1	52.5	78.7



#22
Diisopropyl ether
Concen: Below Cal
RT: 3.89 min Scan# 542
Delta R.T. 0.01 min
Lab File: VX002410.D
Acq: 08 Jun 2018 18:57

Tgt Ion:	45	Resp:	72
Ion	Ratio	Lower	Upper
45	100		
43	22.1	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.06 min Scan# 733

Delta R.T. 0.03 min

Lab File: VX002410.D

Acq: 08 Jun 2018 18:57

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-WATERREF-4

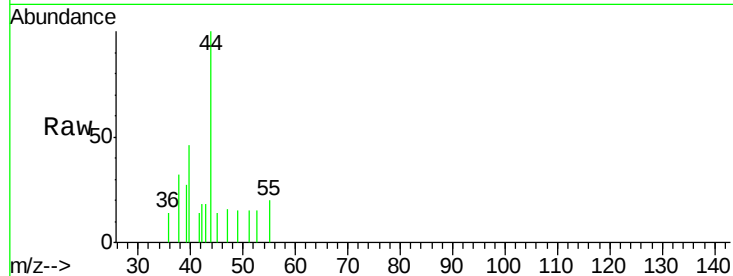
Tot Ion: 49 Resp: 21

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

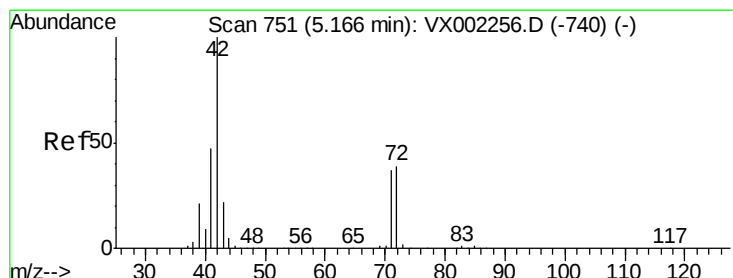
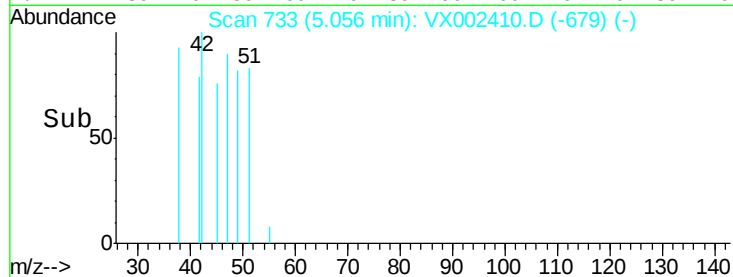
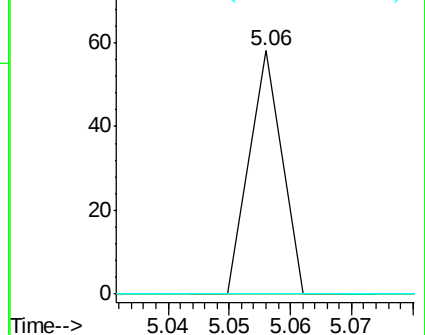
130 0.0 61.2 91.8#



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: 0.71 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.02 min

Lab File: VX002410.D

Acq: 08 Jun 2018 18:57

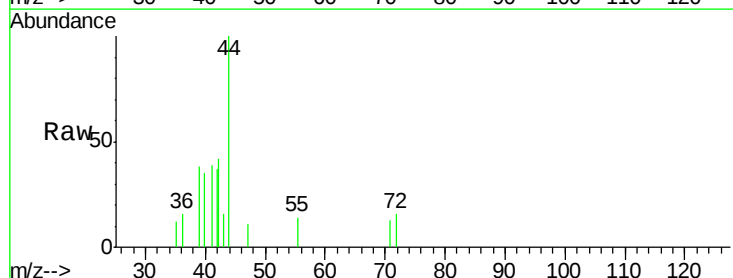
Tgt Ion: 42 Resp: 920

Ion Ratio Lower Upper

42 100

72 13.9 32.0 48.0#

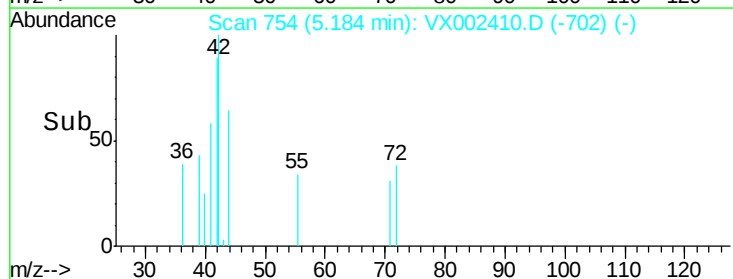
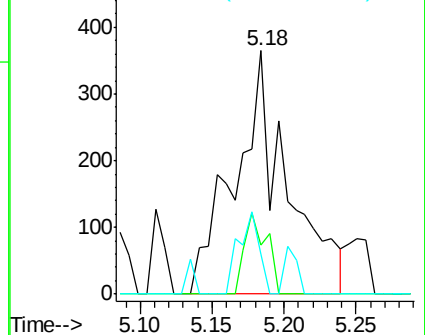
71 13.5 30.1 45.1#

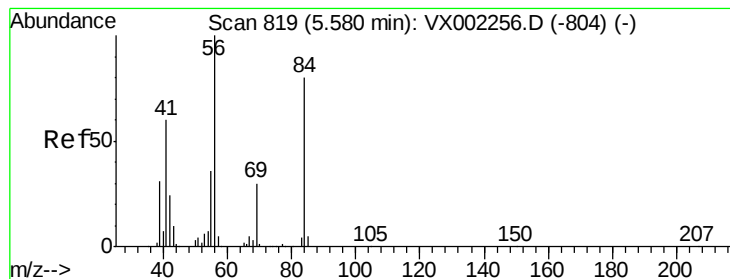


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cvclohexane

Concen: 1.25 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.09 min

Lab File: VX002410.D

Acq: 08 Jun 2018 18:57

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-WATERREF-4

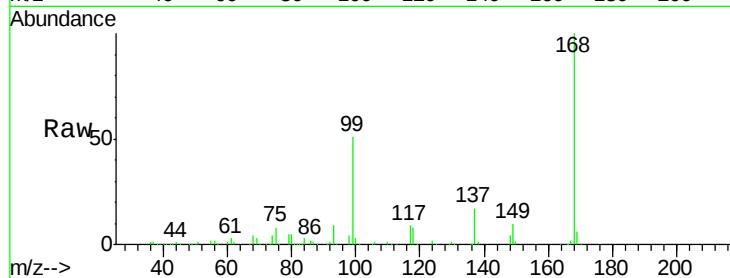
Tot Ion: 56 Resp: 4641

Ion Ratio Lower Upper

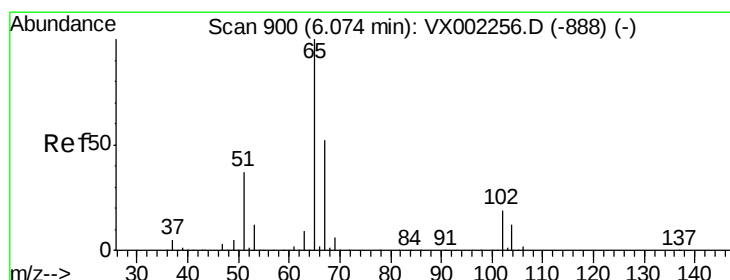
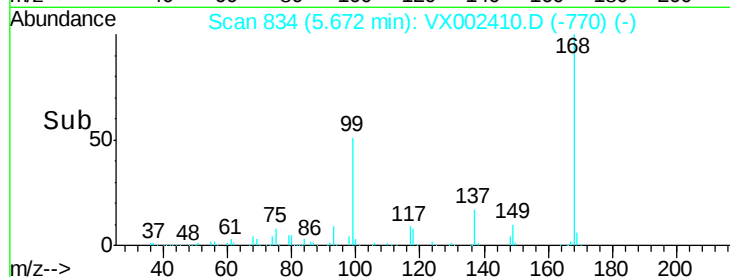
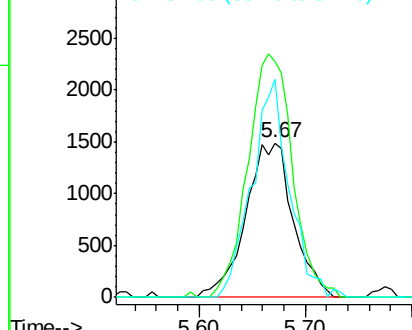
56 100

69 153.2 23.7 35.5#

84 141.6 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: 49.74 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002410.D

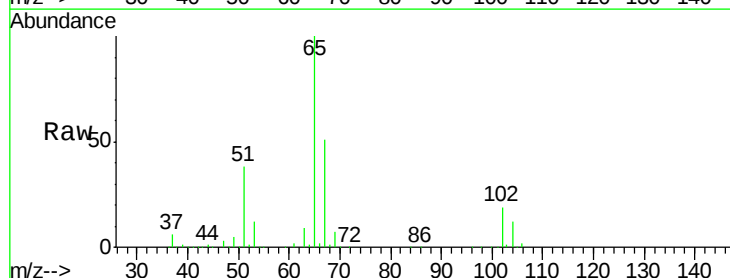
Acq: 08 Jun 2018 18:57

Tgt Ion: 65 Resp: 146706

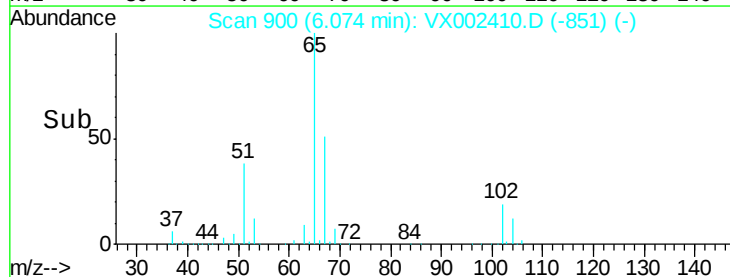
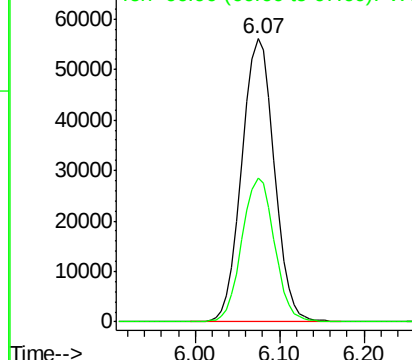
Ion Ratio Lower Upper

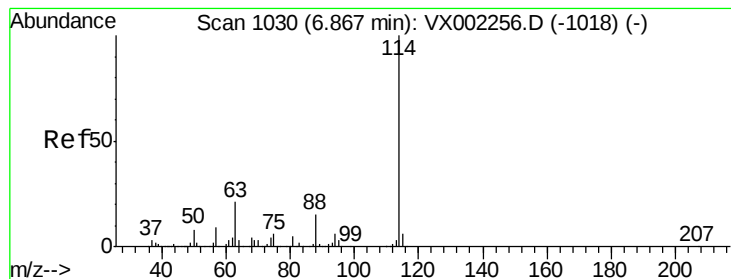
65 100

67 51.0 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: VX002410.D

Acq: 08 Jun 2018 18:57

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-WATERREF-4

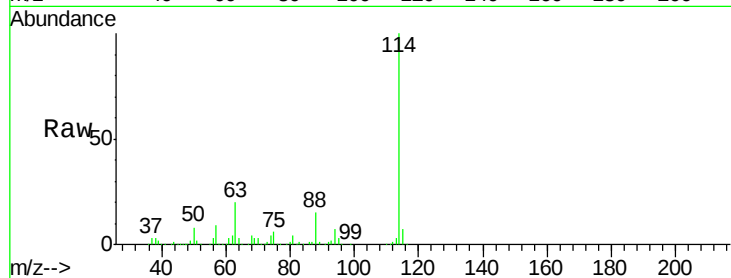
Tot Ion:114 Resp: 303831

Ion Ratio Lower Upper

114 100

63 20.4 0.0 41.4

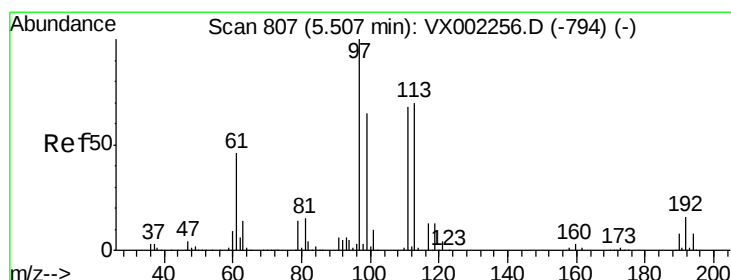
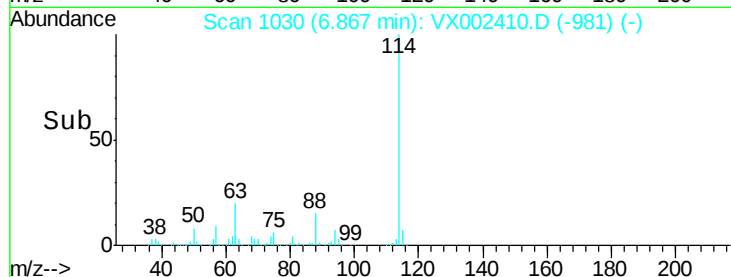
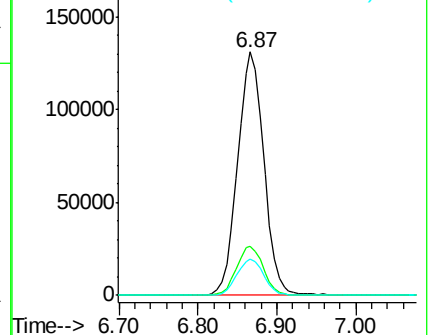
88 15.1 0.0 30.0



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: 45.55 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002410.D

Acq: 08 Jun 2018 18:57

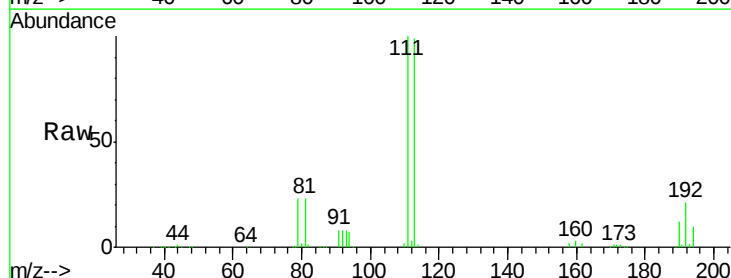
Tgt Ion:113 Resp: 108833

Ion Ratio Lower Upper

113 100

111 102.8 81.4 122.0

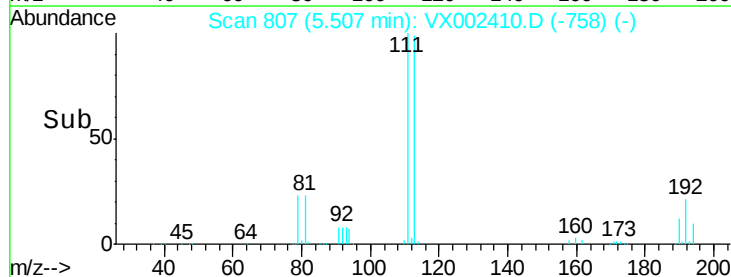
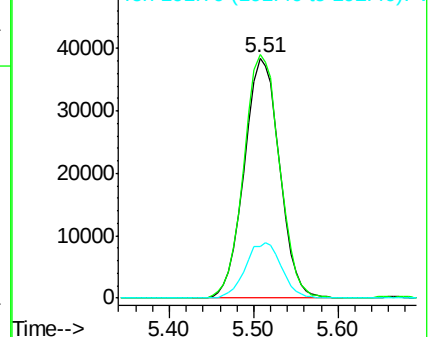
192 23.6 19.1 28.7

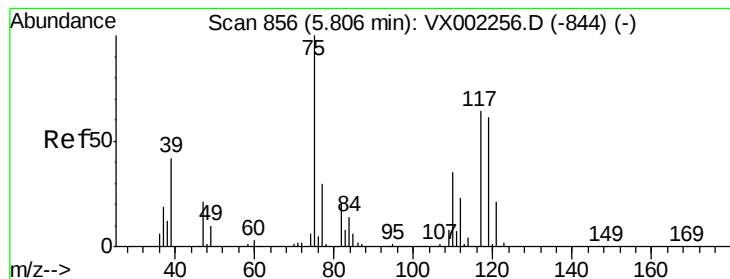


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.68 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX002410.D

Acq: 08 Jun 2018 18:57

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-WATERREF-4

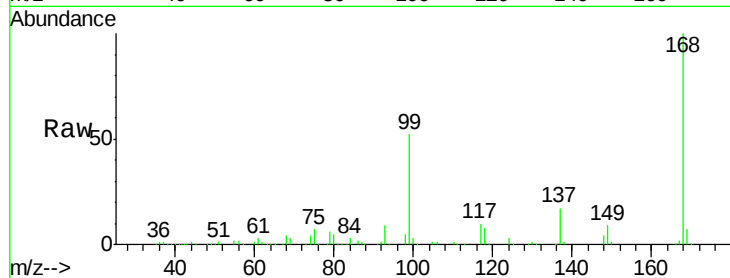
Tot Ion: 75 Resp: 14962

Ion Ratio Lower Upper

75 100

110 9.7 18.1 54.4#

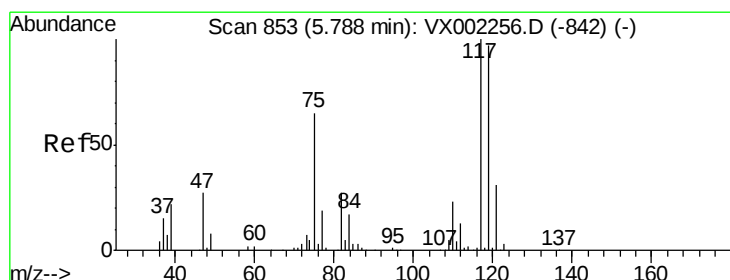
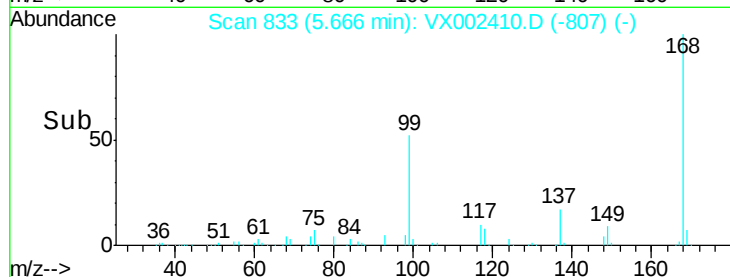
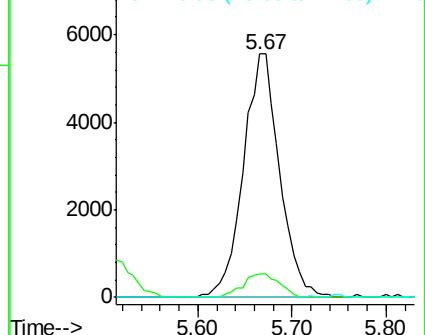
77 0.0 24.3 36.5#



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: 5.87 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002410.D

Acq: 08 Jun 2018 18:57

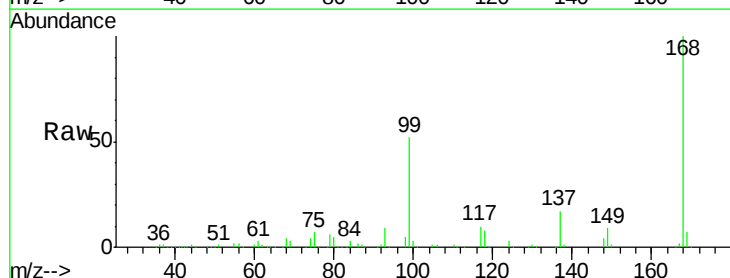
Tgt Ion: 117 Resp: 19630

Ion Ratio Lower Upper

117 100

119 3.4 77.4 116.0#

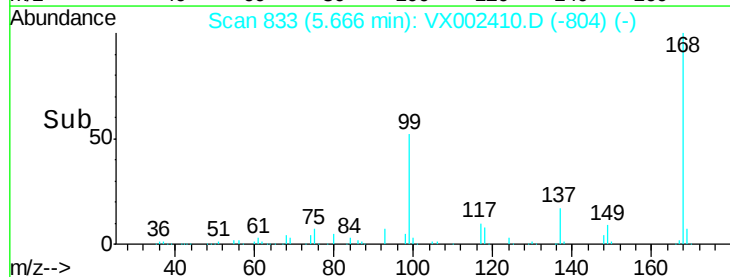
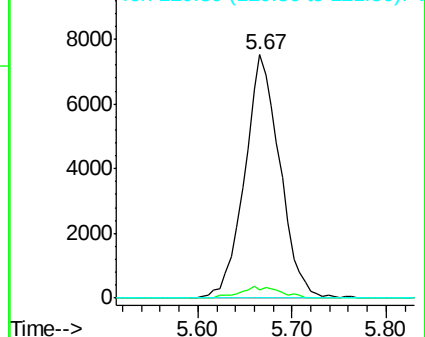
121 0.0 24.4 36.6#

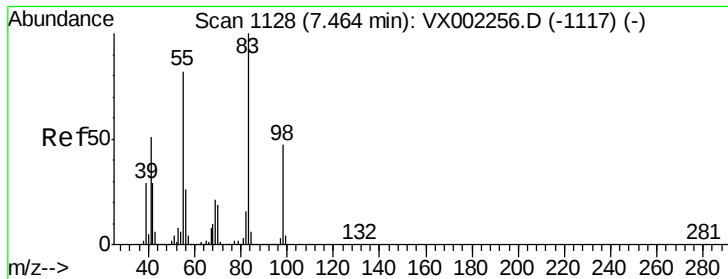


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

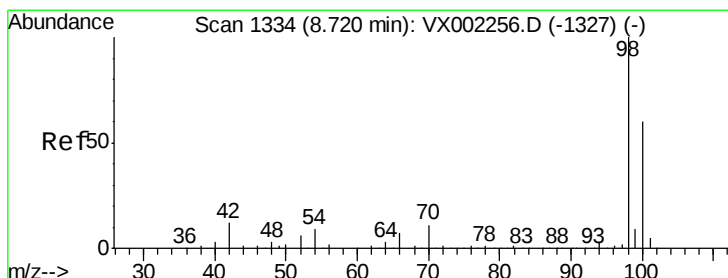
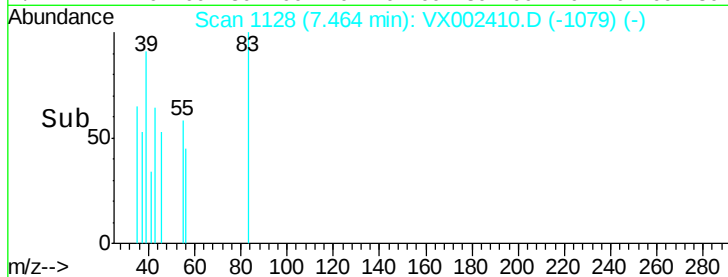
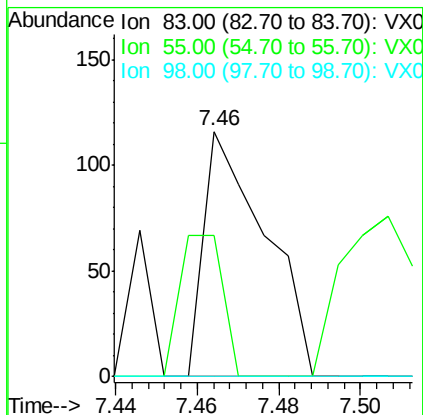
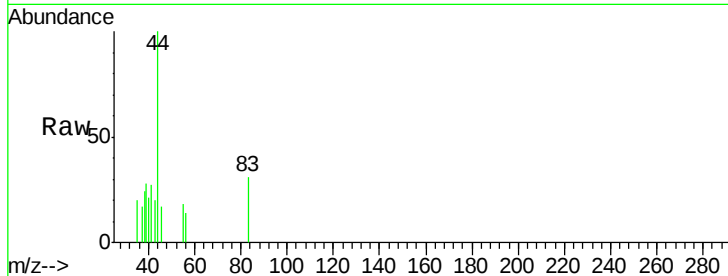




#39
Methvlcvclohexane
Concen: 0.29 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. 0.00 min
Lab File: VX002410.D
Acq: 08 Jun 2018 18:57

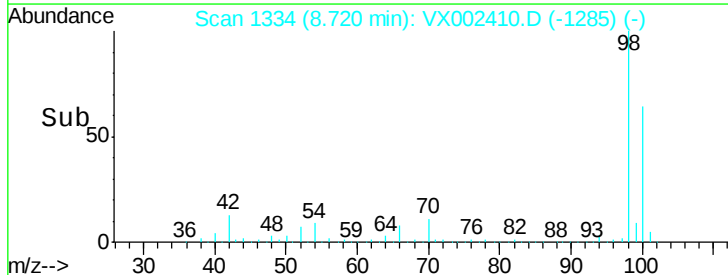
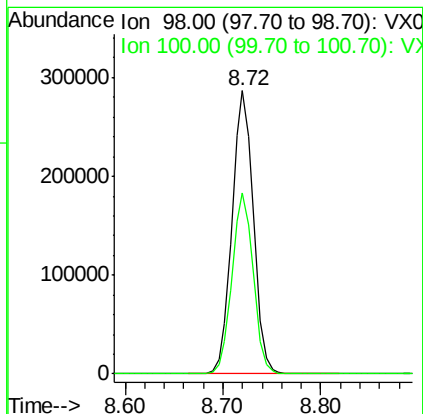
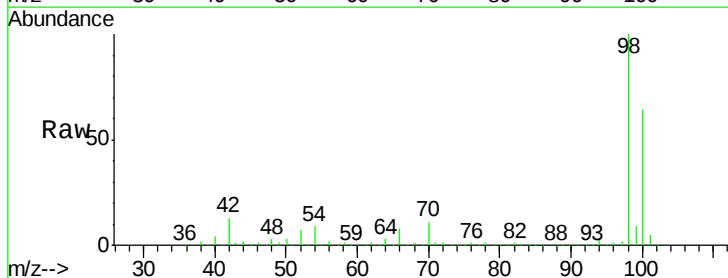
Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-WATERREF-4

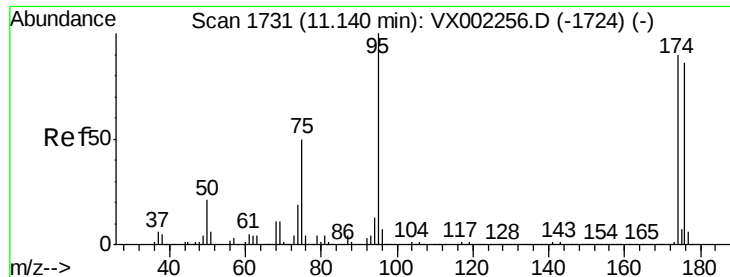
Tot Ion: 83 Resp: 121
Ion Ratio Lower Upper
83 100
55 12.1 65.4 98.0#
98 0.0 37.4 56.0#



#50
Toluene-d8
Concen: 47.36 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002410.D
Acq: 08 Jun 2018 18:57

Tgt Ion: 98 Resp: 433776
Ion Ratio Lower Upper
98 100
100 63.3 50.9 76.3

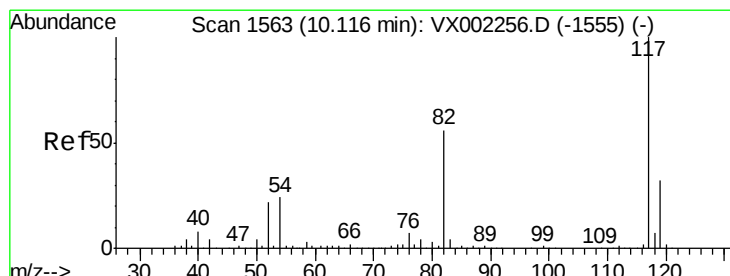
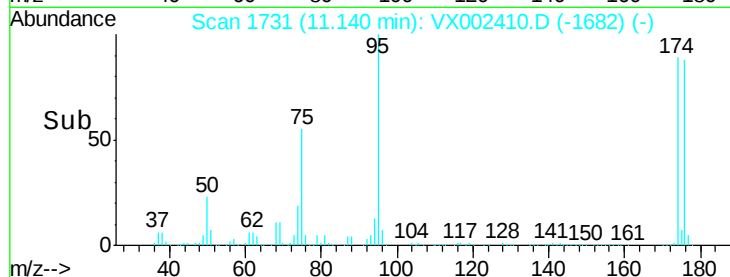
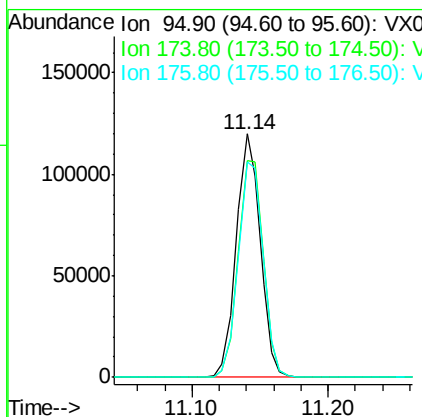
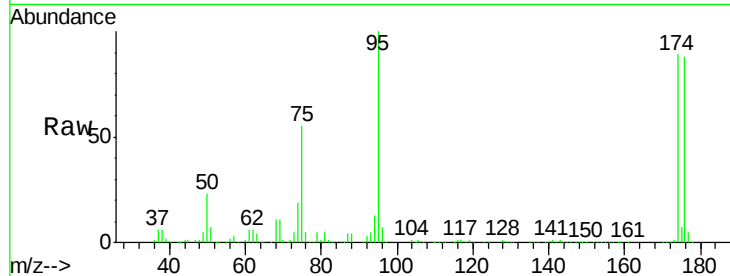




#62
4-Bromofluorobenzene
Concen: 41.63 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002410.D
Acq: 08 Jun 2018 18:57

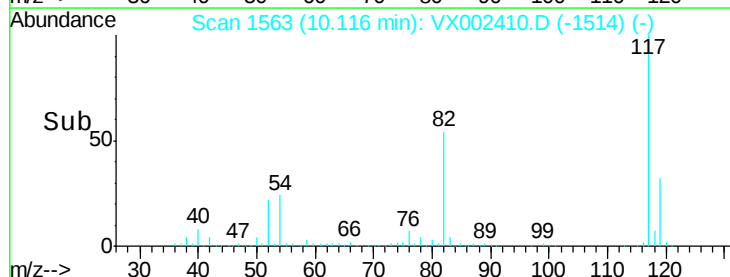
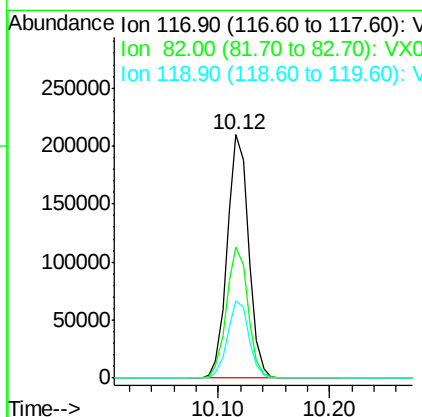
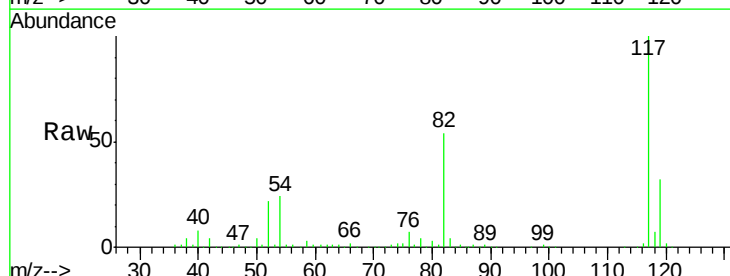
Instrument :
MSVOA_X
ClientSampleId :
STORAGEBLANK-WATERREF-4

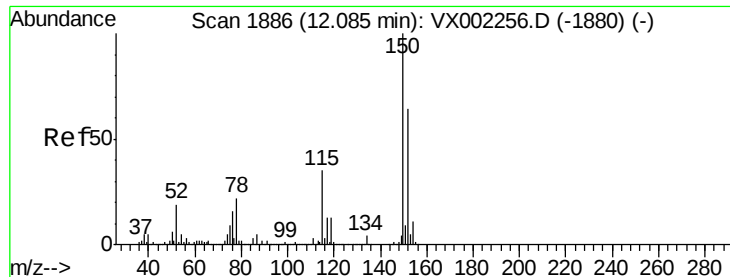
Tot Ion: 95 Resp: 147003
Ion Ratio Lower Upper
95 100
174 94.1 0.0 187.4
176 92.8 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002410.D
Acq: 08 Jun 2018 18:57

Tgt Ion: 117 Resp: 277650
Ion Ratio Lower Upper
117 100
82 54.0 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: VX002410.D

Acq: 08 Jun 2018 18:57

Instrument :

MSVOA_X

ClientSampleId :

STORAGEBLANK-WATERREF-4

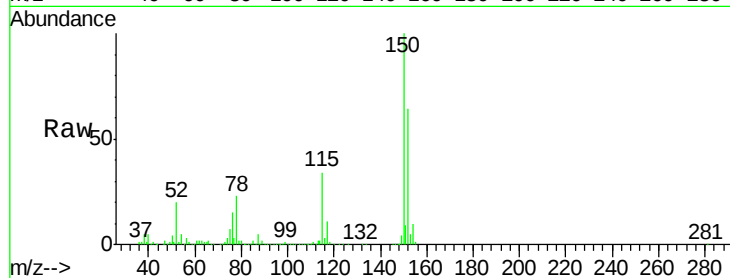
Tot Ion:152 Resp: 151733

Ion Ratio Lower Upper

152 100

115 55.0 40.1 120.2

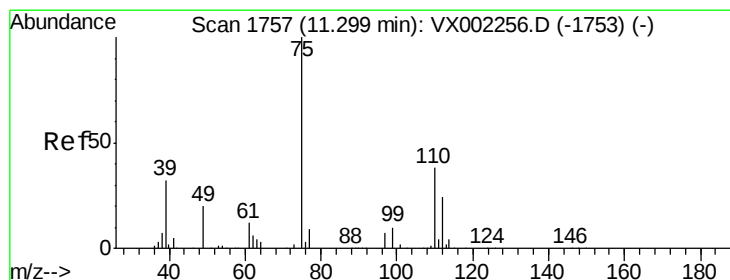
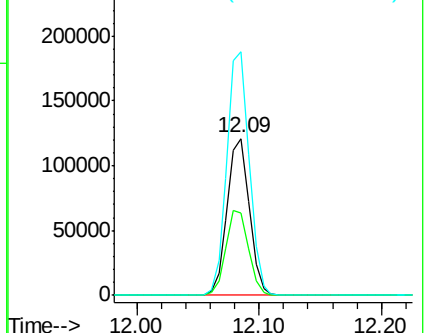
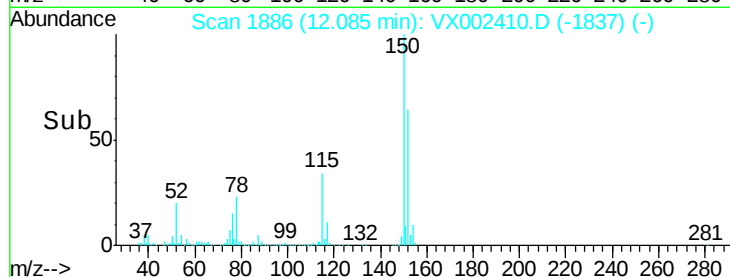
150 156.1 0.0 347.2



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: 23.95 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002410.D

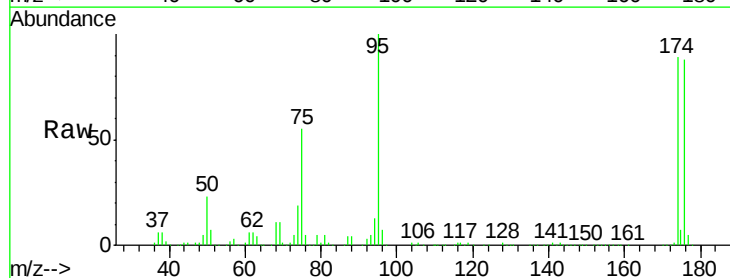
Acq: 08 Jun 2018 18:57

Tgt Ion: 75 Resp: 79731

Ion Ratio Lower Upper

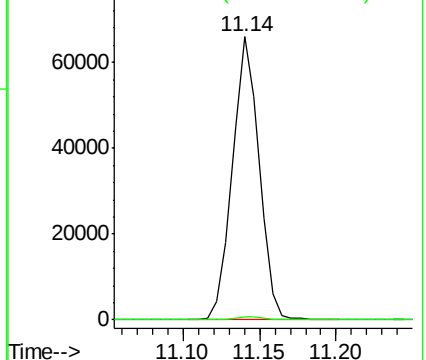
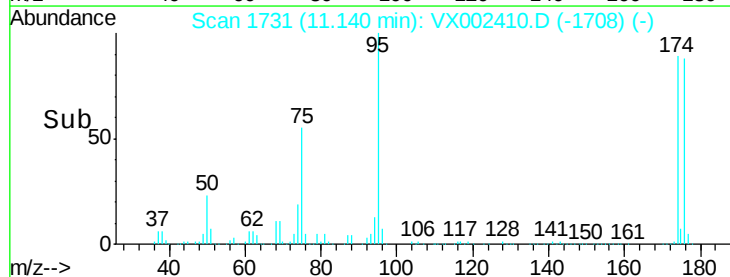
75 100

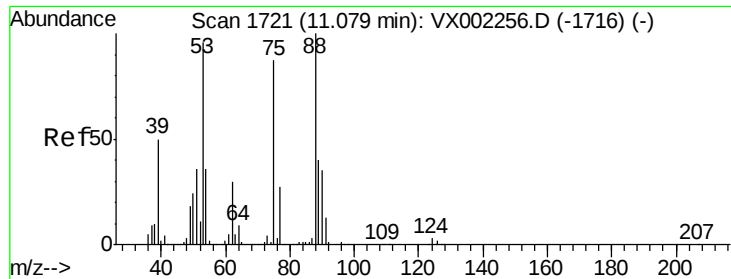
77 1.2 22.8 68.3#



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: 83.94 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002410.D
 Acq: 08 Jun 2018 18:57

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGEBLANK-WATERREF-4

Tot Ion: 75 Resp: 79731
 Ion Ratio Lower Upper
 75 100
 53 0.1 86.8 130.2#
 89 0.0 38.2 57.2#

