

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070918\
 Data File : VX003267.D
 Acq On : 10 Jul 2018 01:50
 Operator : JC/MD
 Sample : PB110911ZHE#13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB110911ZHE#13

Quant Time: Jul 10 03:24:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X070918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 09 15:24:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	258212	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	362830	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	345205	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	195741	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	168409	41.44	ug/l	0.00
Spiked Amount			Recovery	=	82.88%	
35) Dibromofluoromethane	5.51	113	140194	35.97	ug/l	0.00
Spiked Amount			Recovery	=	71.94%	
50) Toluene-d8	8.72	98	519780	37.54	ug/l	0.00
Spiked Amount			Recovery	=	75.08%	
62) 4-Bromofluorobenzene	11.14	95	179385	35.06	ug/l	0.00
Spiked Amount			Recovery	=	70.12%	

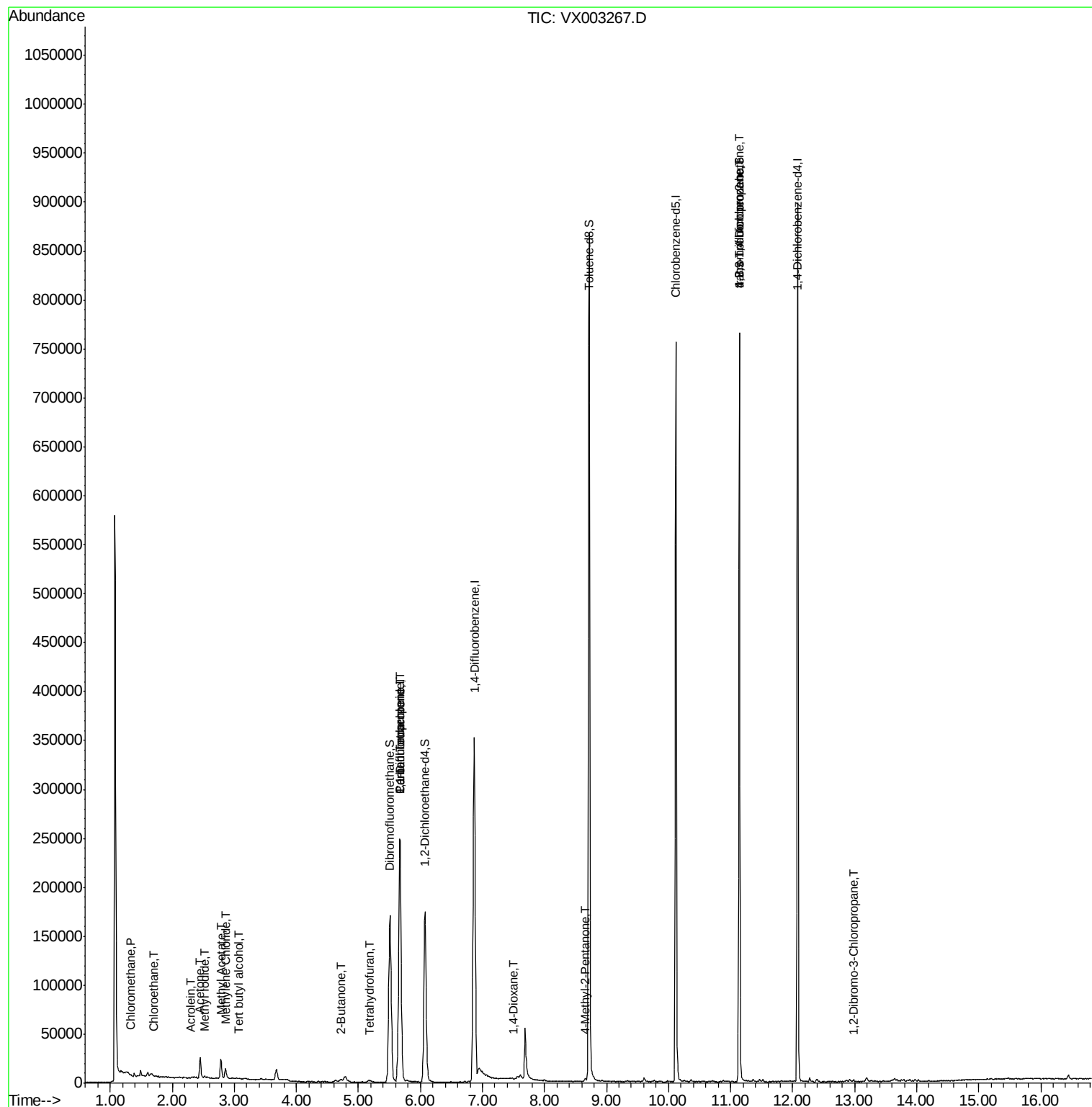
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	933	0.26	ug/l	# 79
5) Bromomethane	1.65	94	2321	Below	Cal	92
6) Chloroethane	1.71	64	575	0.28	ug/l	100
10) Methyl Iodide	2.52	142	2259	6.22	ug/l	# 95
11) Tert butyl alcohol	3.07	59	1024	1.39	ug/l	# 79
13) Acrolein	2.30	56	515	0.87	ug/l	100
16) Acetone	2.45	43	24002	16.64	ug/l	98
18) Methyl Acetate	2.78	43	24175	5.94	ug/l	97
20) Methylene Chloride	2.86	84	5057	1.02	ug/l	86
25) 2-Butanone	4.71	43	5073	1.99	ug/l	94
29) Tetrahydrofuran	5.18	42	2274	1.37	ug/l	# 90
36) 1,1-Dichloropropene	5.67	75	16407	3.19	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	22902	4.08	ug/l	# 16
49) 1,4-Dioxane	7.50	88	20	0.21	ug/l	# 22
51) 4-Methyl-2-Pentanone	8.66	43	2154	0.39	ug/l	93
76) 1,2,3-Trichloropropane	11.14	75	90461	21.38	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	90461	69.89	ug/l	# 7
92) 1,2-Dibromo-3-Chloropropan	12.98	75	254	0.25	ug/l	# 1

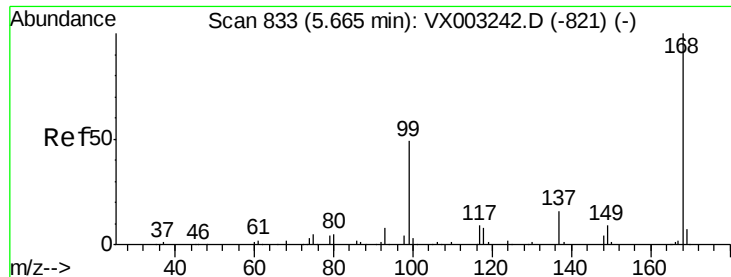
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jul 09 15:24:16 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003267.D

Acq: 10 Jul 2018 01:50

Instrument :

MSVOA_X

ClientSampleId :

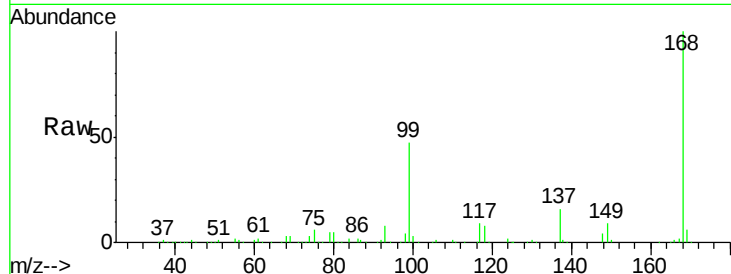
PB110911ZHE#13

Tot Ion:168 Resp: 258212

Ion Ratio Lower Upper

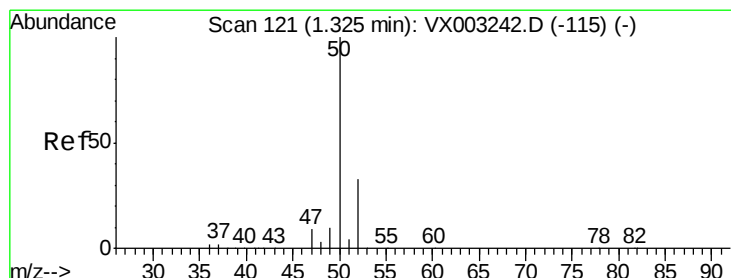
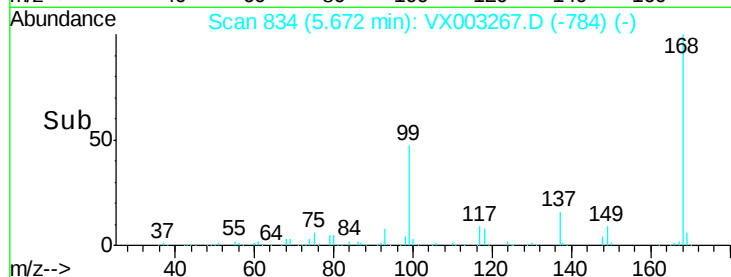
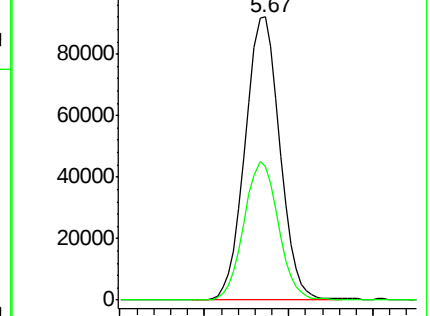
168 100

99 47.2 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: 0.26 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003267.D

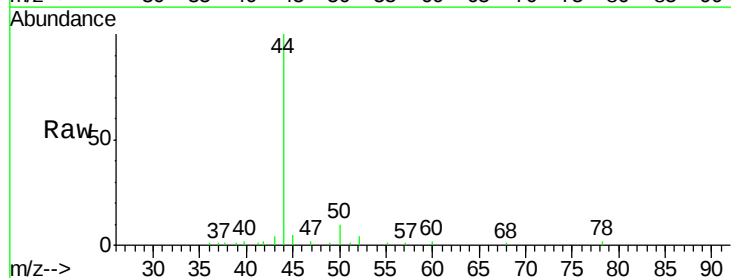
Acq: 10 Jul 2018 01:50

Tgt Ion: 50 Resp: 933

Ion Ratio Lower Upper

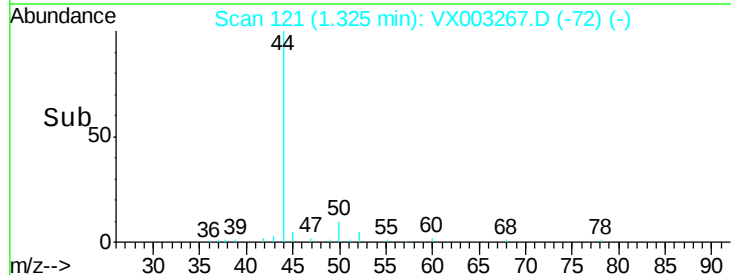
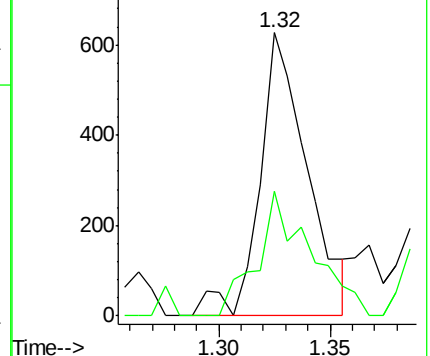
50 100

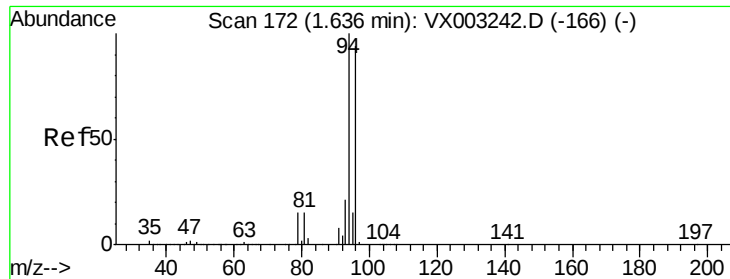
52 43.9 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003267.D

Acq: 10 Jul 2018 01:50

Instrument :

MSVOA_X

ClientSampleId :

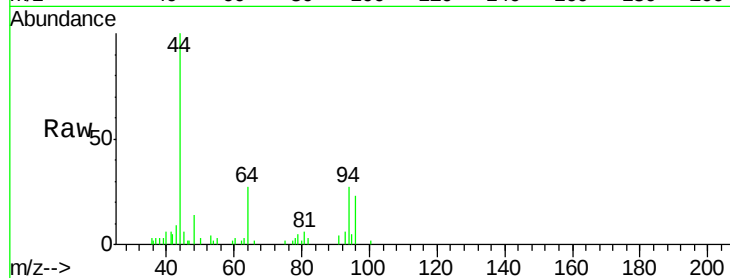
PB110911ZHE#13

Tot Ion: 94 Resp: 2321

Ion Ratio Lower Upper

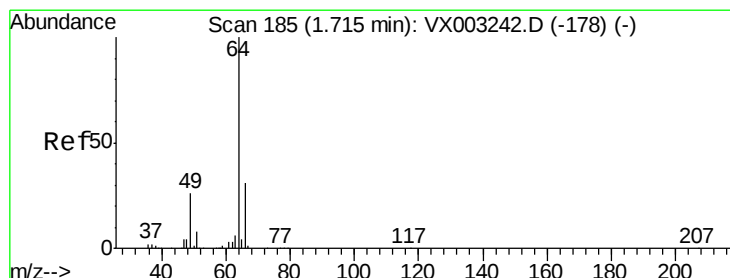
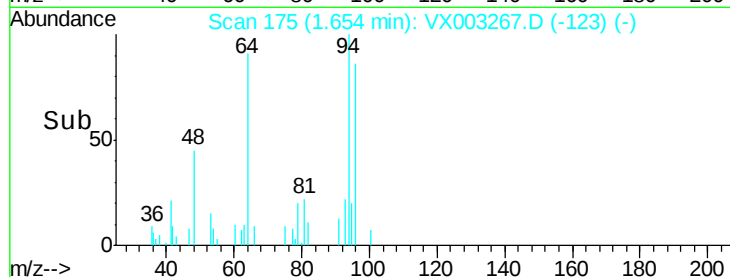
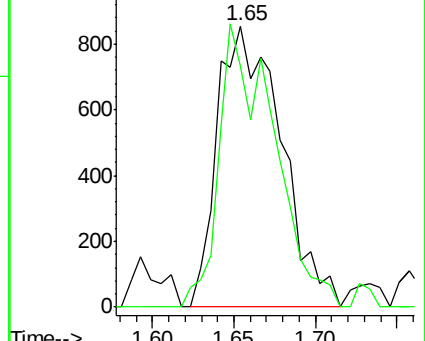
94 100

96 85.8 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.28 ug/l

RT: 1.71 min Scan# 184

Delta R.T. 0.00 min

Lab File: VX003267.D

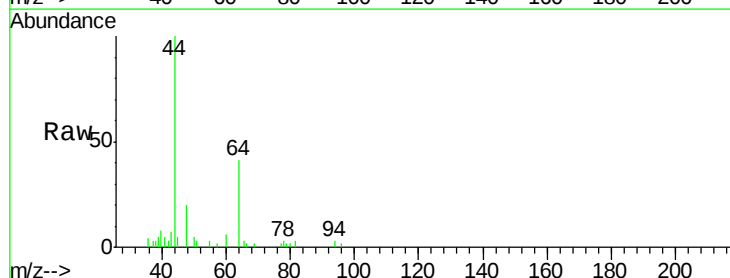
Acq: 10 Jul 2018 01:50

Tgt Ion: 64 Resp: 575

Ion Ratio Lower Upper

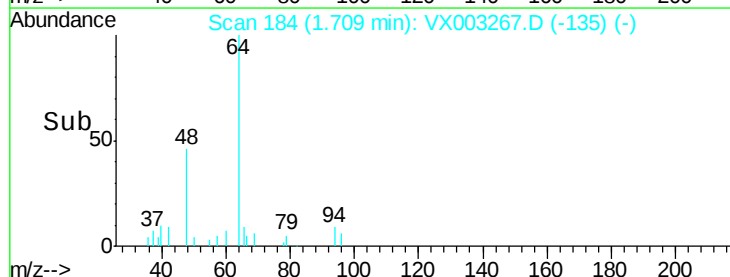
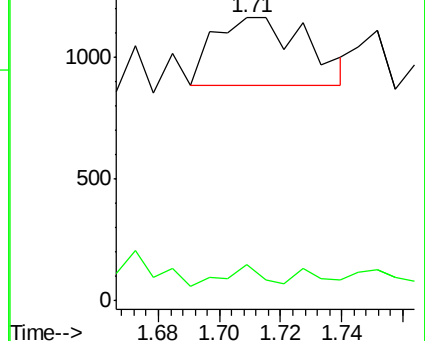
64 100

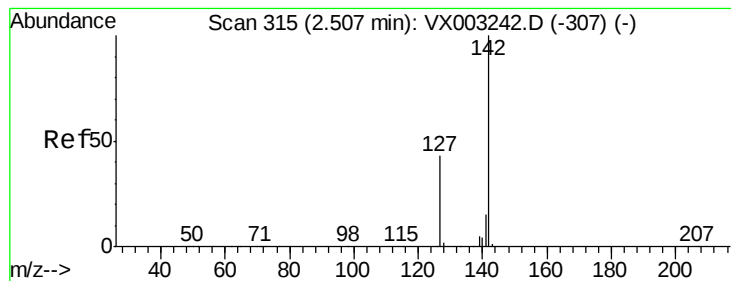
66 31.6 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#10

Methvl Iodide

Concen: 6.22 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003267.D

Acq: 10 Jul 2018 01:50

Instrument :

MSVOA_X

ClientSampleId :

PB110911ZHE#13

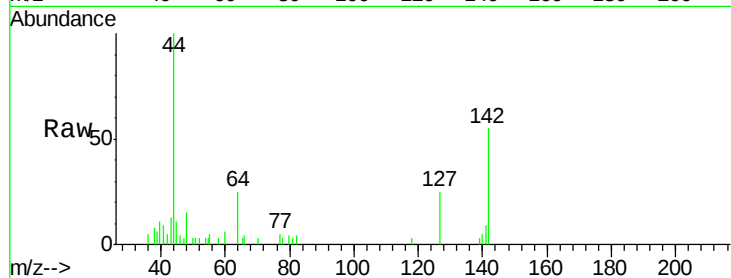
Tot Ion:142 Resp: 2259

Ion Ratio Lower Upper

142 100

127 43.6 36.6 55.0

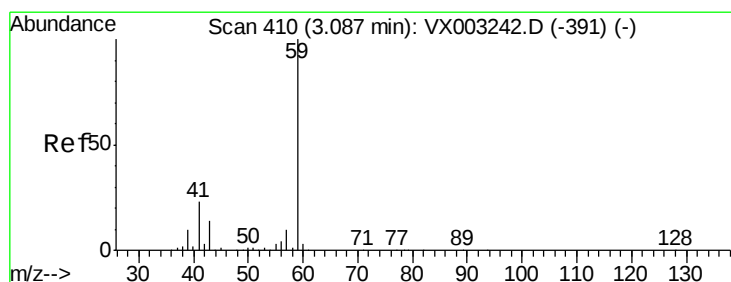
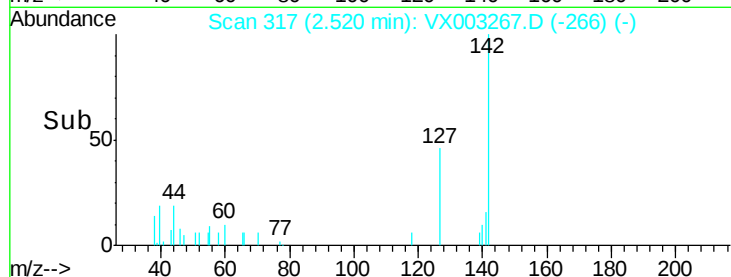
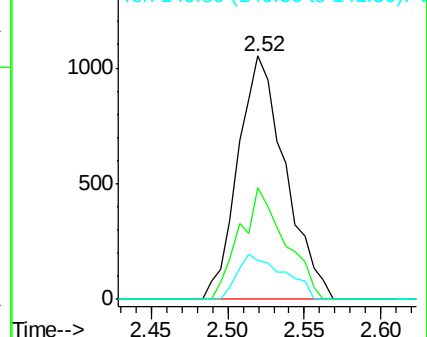
141 18.0 11.3 16.9#



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: 1.39 ug/l

RT: 3.07 min Scan# 407

Delta R.T. -0.02 min

Lab File: VX003267.D

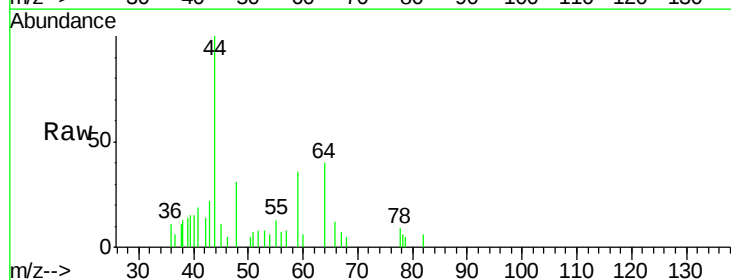
Acq: 10 Jul 2018 01:50

Tgt Ion: 59 Resp: 1024

Ion Ratio Lower Upper

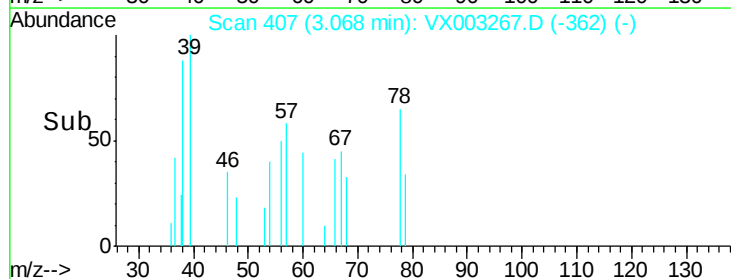
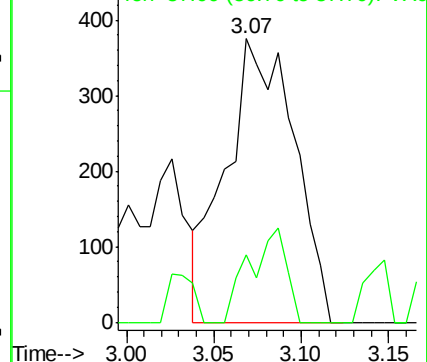
59 100

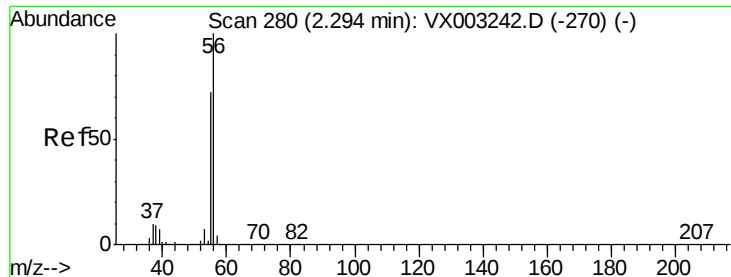
57 18.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.87 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX003267.D

Acq: 10 Jul 2018 01:50

Instrument :

MSVOA_X

ClientSampleId :

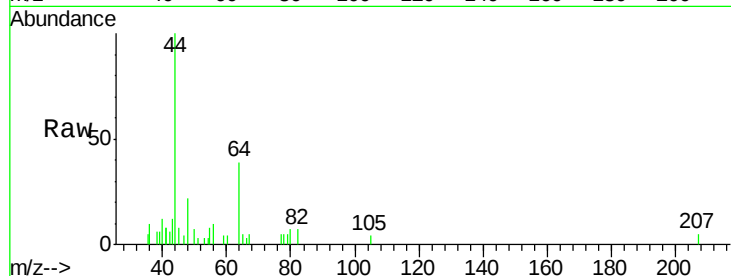
PB110911ZHE#13

Tot Ion: 56 Resp: 515

Ion Ratio Lower Upper

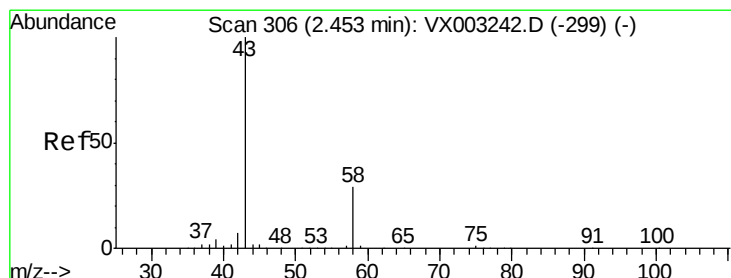
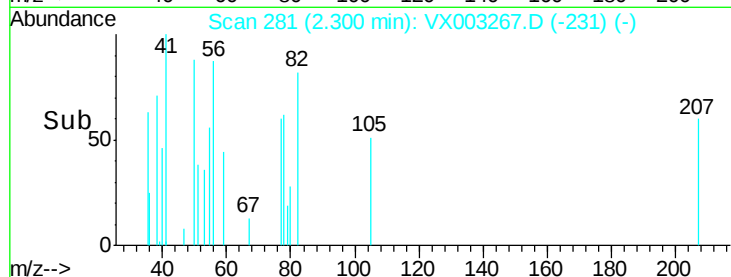
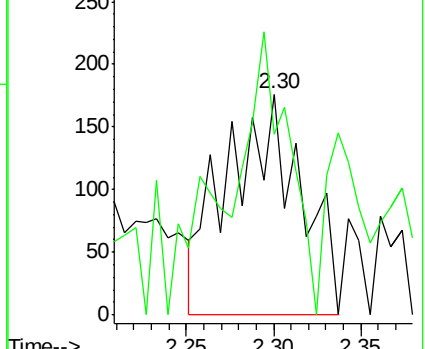
56 100

55 70.9 57.0 85.4



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 16.64 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003267.D

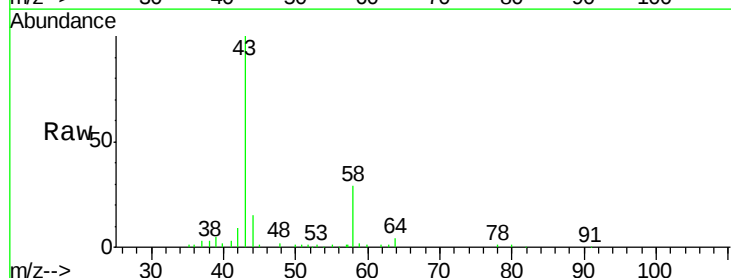
Acq: 10 Jul 2018 01:50

Tgt Ion: 43 Resp: 24002

Ion Ratio Lower Upper

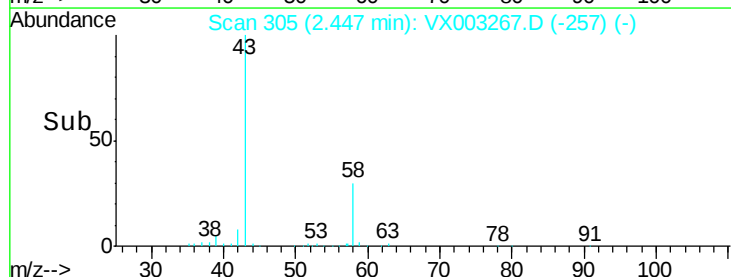
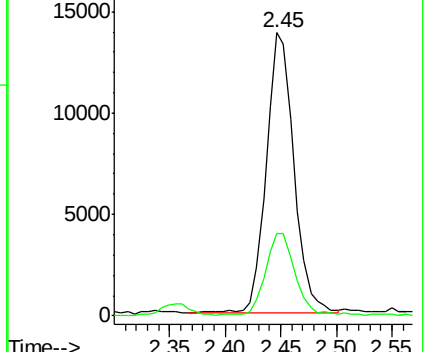
43 100

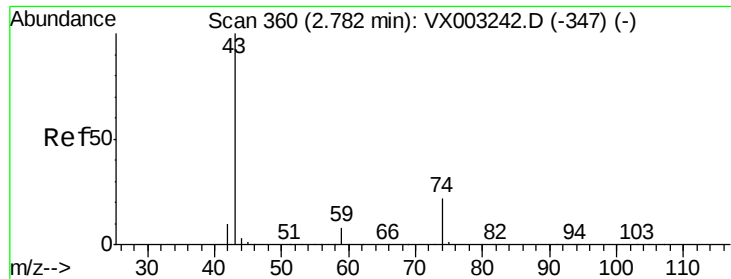
58 28.8 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

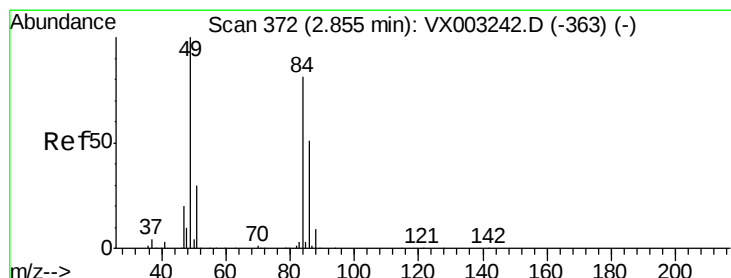
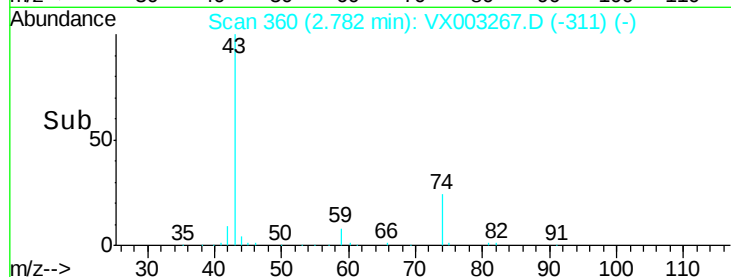
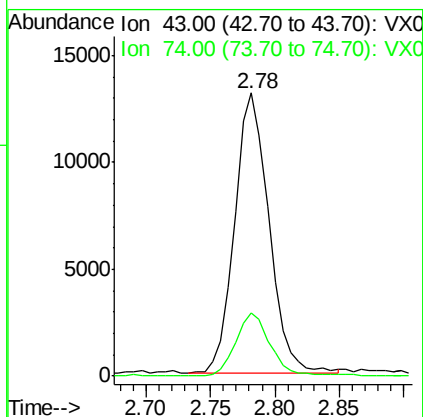
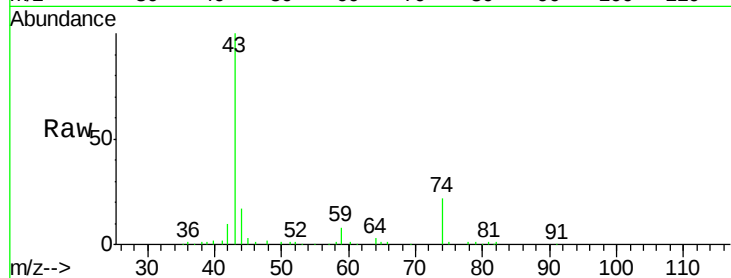




#18
Methyl Acetate
Concen: 5.94 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX003267.D
Acq: 10 Jul 2018 01:50

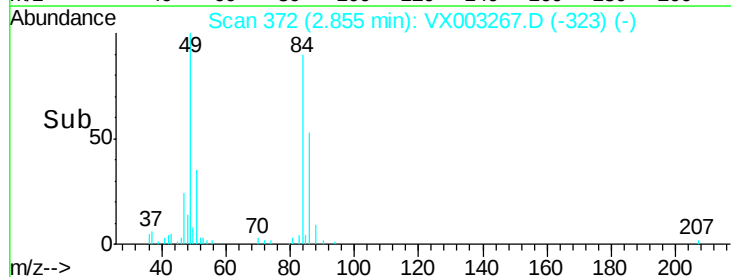
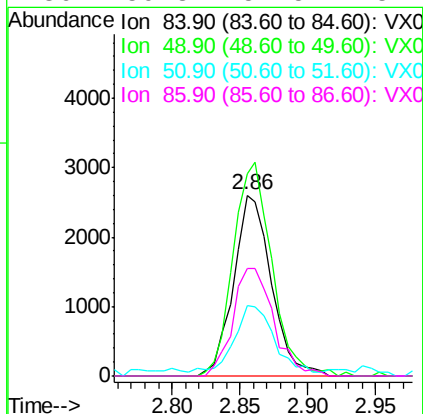
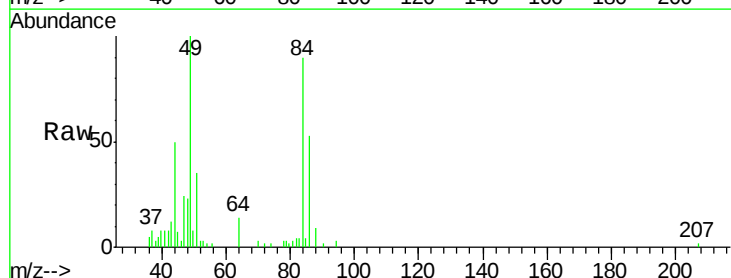
Instrument :
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PB110911ZHE#13

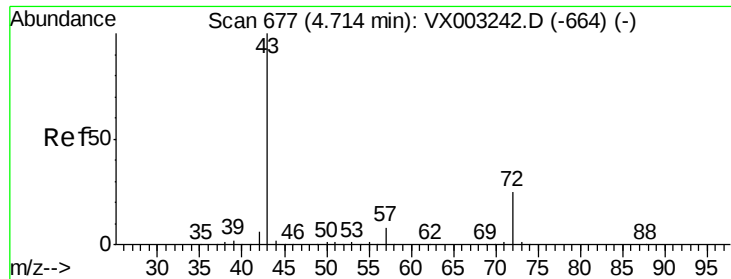
Tot Ion: 43 Resp: 24175
Ion Ratio Lower Upper
43 100
74 22.5 16.7 25.1



#20
Methylene Chloride
Concen: 1.02 ug/l
RT: 2.86 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX003267.D
Acq: 10 Jul 2018 01:50

Tgt Ion: 84 Resp: 5057
Ion Ratio Lower Upper
84 100
49 111.7 107.8 161.6
51 36.9 32.8 49.2
86 59.3 52.5 78.7





#25

2-Butanone

Concen: 1.99 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.00 min

Lab File: VX003267.D

Acq: 10 Jul 2018 01:50

Instrument :

MSVOA_X

ClientSampleId :

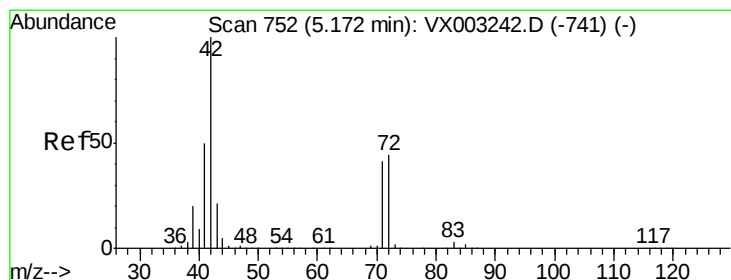
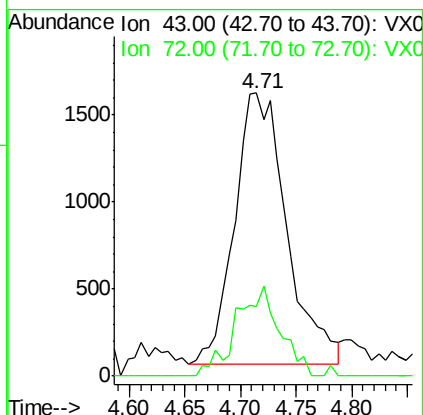
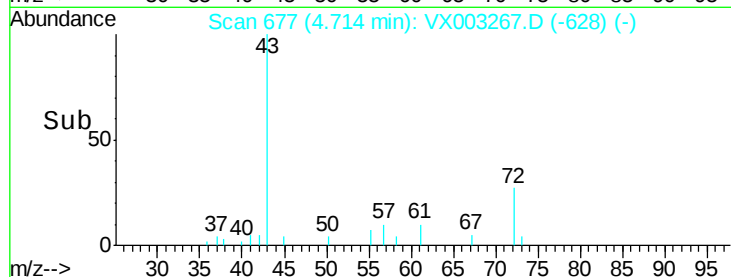
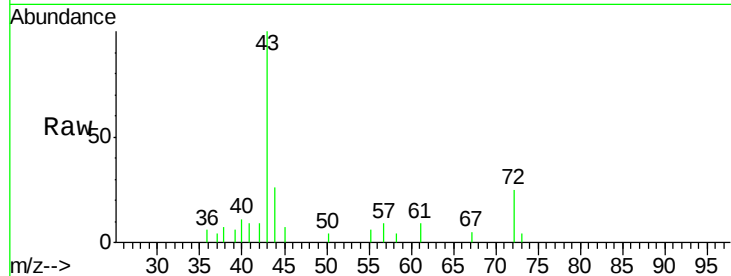
PB110911ZHE#13

Tot Ion: 43 Resp: 5073

Ion Ratio Lower Upper

43 100

72 25.9 18.5 27.7



#29

Tetrahydrofuran

Concen: 1.37 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX003267.D

Acq: 10 Jul 2018 01:50

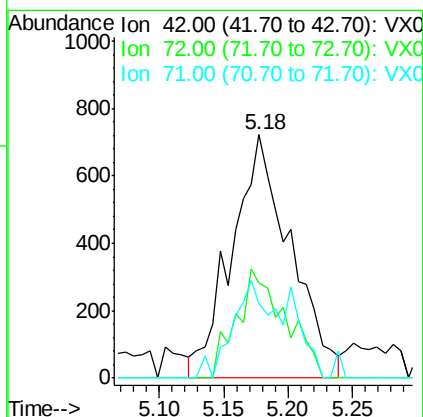
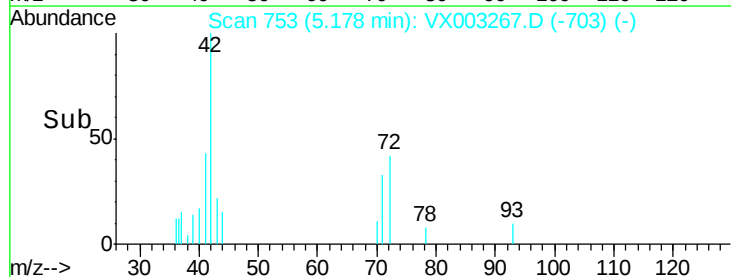
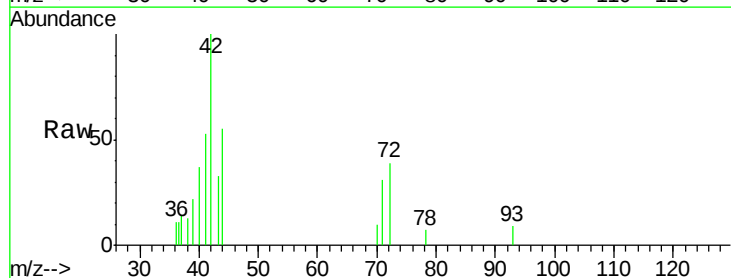
Tgt Ion: 42 Resp: 2274

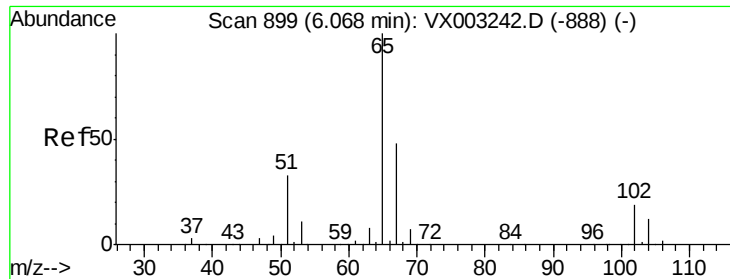
Ion Ratio Lower Upper

42 100

72 37.6 32.0 48.0

71 28.0 30.1 45.1#





#33

1,2-Dichloroethane-d4

Concen: 41.44 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX003267.D

Acq: 10 Jul 2018 01:50

Instrument :

MSVOA_X

ClientSampleId :

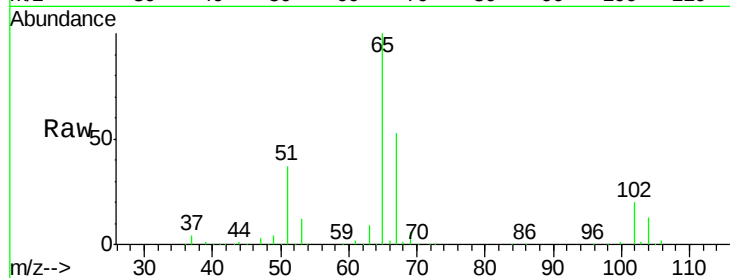
PB110911ZHE#13

Tot Ion: 65 Resp: 168409

Ion Ratio Lower Upper

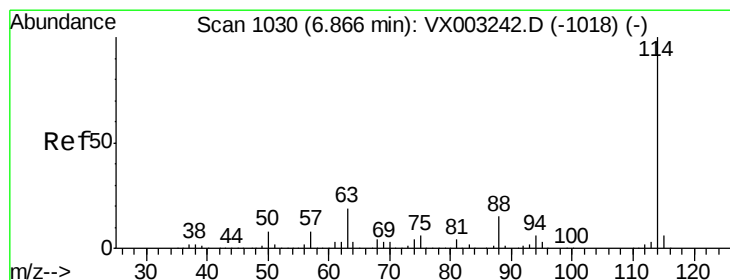
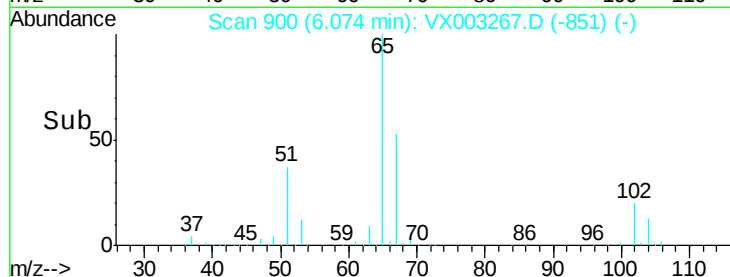
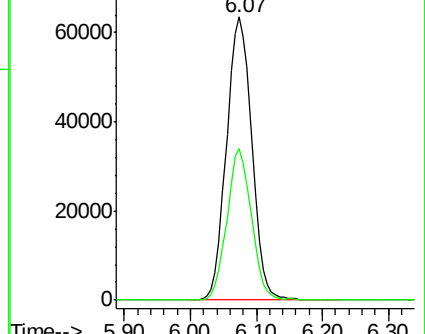
65 100

67 51.6 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: VX003267.D

Acq: 10 Jul 2018 01:50

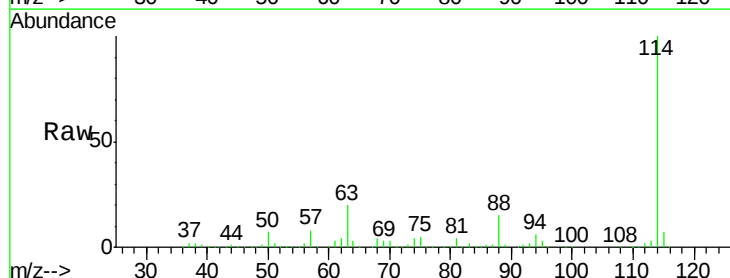
Tgt Ion: 114 Resp: 362830

Ion Ratio Lower Upper

114 100

63 19.7 0.0 41.4

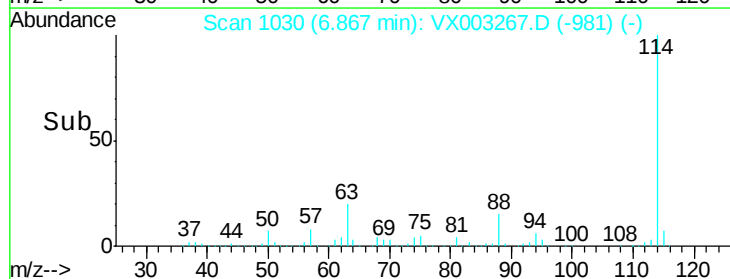
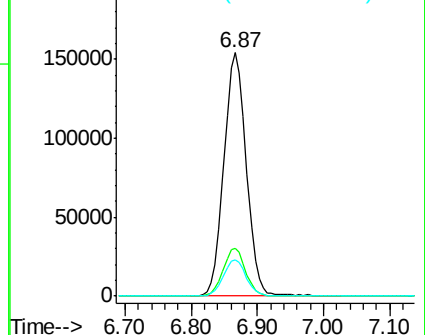
88 14.8 0.0 30.0

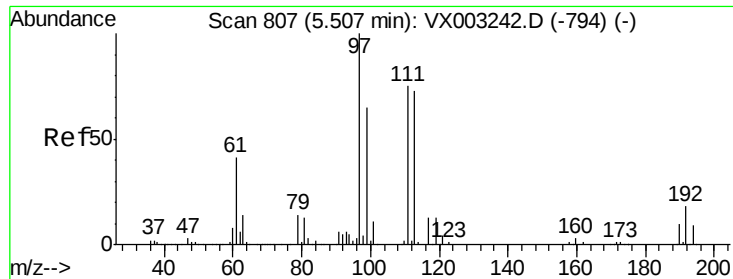


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

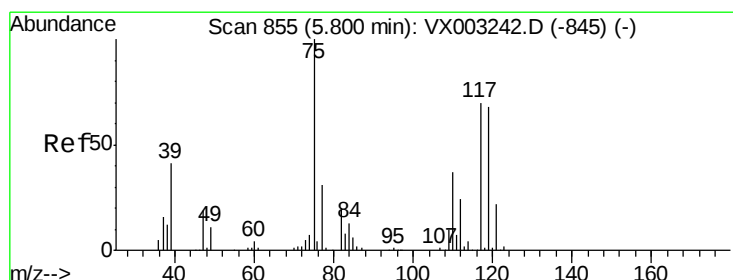
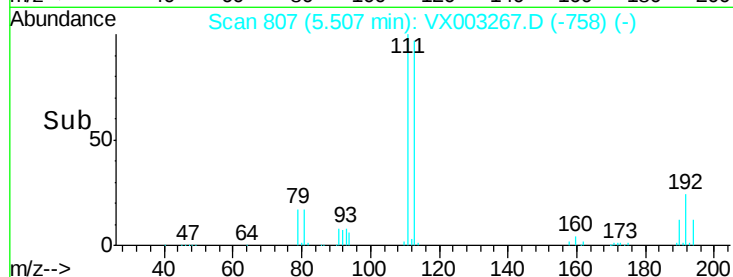
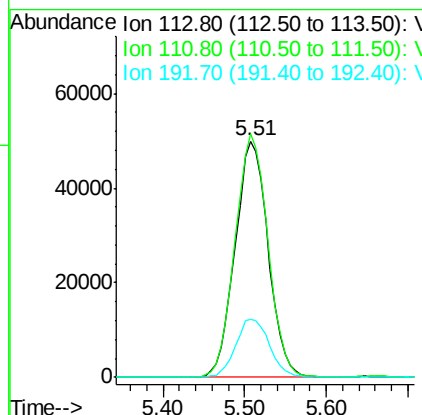
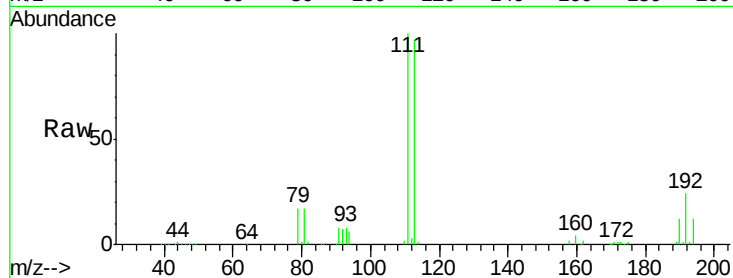




#35
 Dibromofluoromethane
 Concen: 35.97 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: VX003267.D
 Acq: 10 Jul 2018 01:50

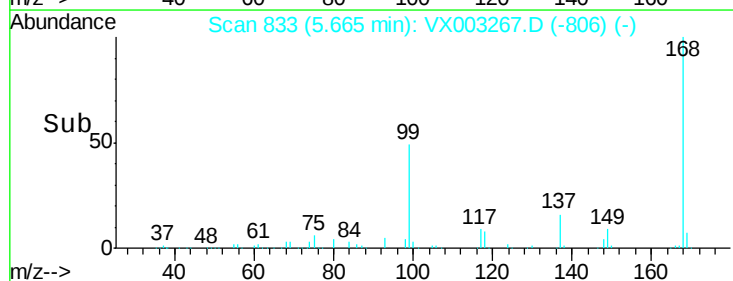
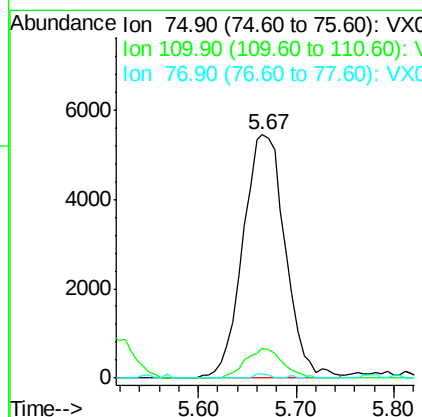
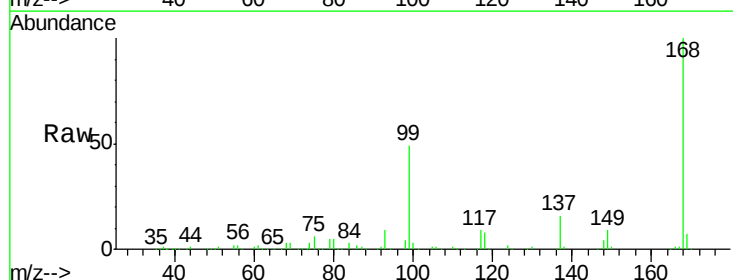
Instrument :
 MSVOA_X
 ClientSampleId :
 PB110911ZHE#13

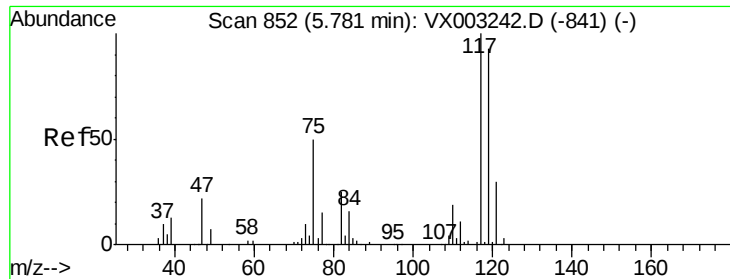
Tot Ion:113 Resp: 140194
 Ion Ratio Lower Upper
 113 100
 111 102.6 81.4 122.0
 192 25.3 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 3.19 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003267.D
 Acq: 10 Jul 2018 01:50

Tgt Ion: 75 Resp: 16407
 Ion Ratio Lower Upper
 75 100
 110 10.6 18.1 54.4#
 77 0.5 24.3 36.5#

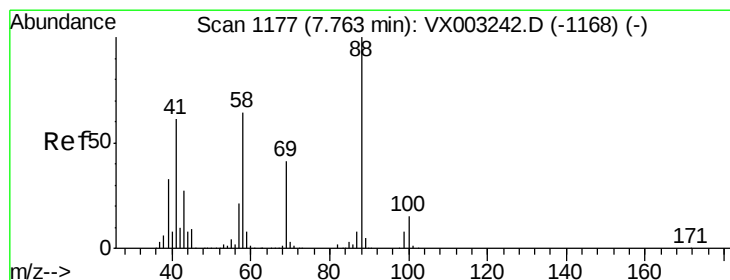
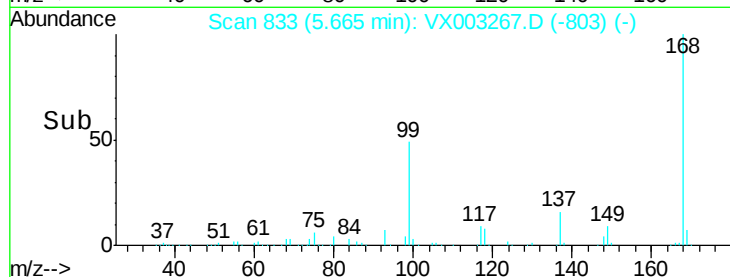
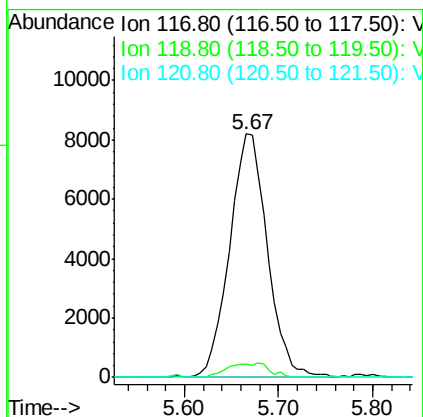
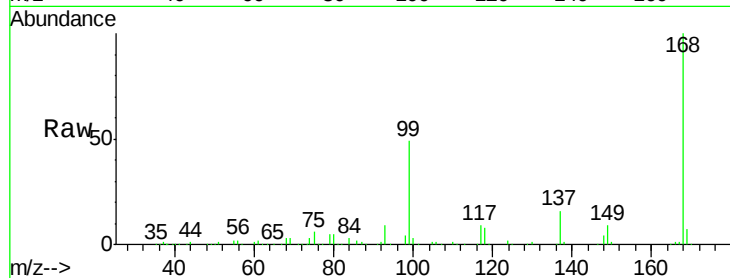




#38
Carbon Tetrachloride
Concen: 4.08 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX003267.D
Acq: 10 Jul 2018 01:50

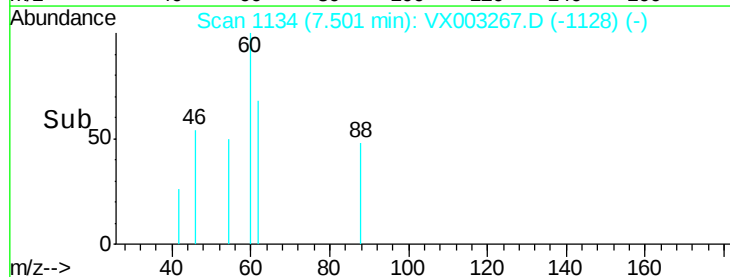
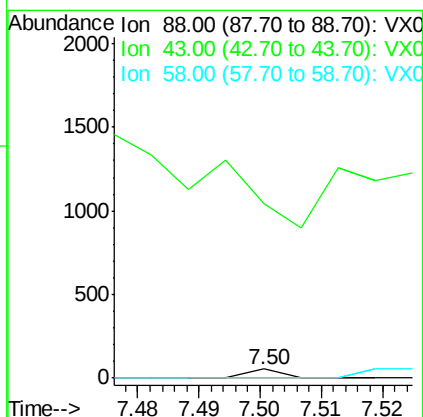
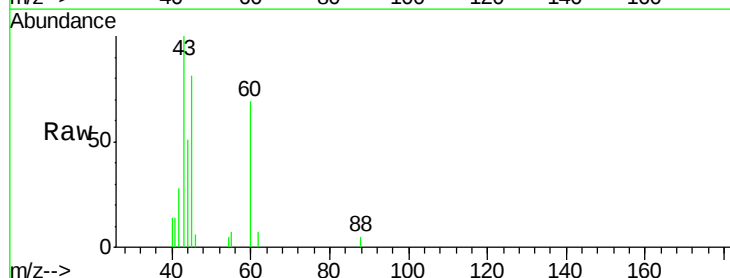
Instrument :
MSVOA_X
ClientSampleId :
PB110911ZHE#13

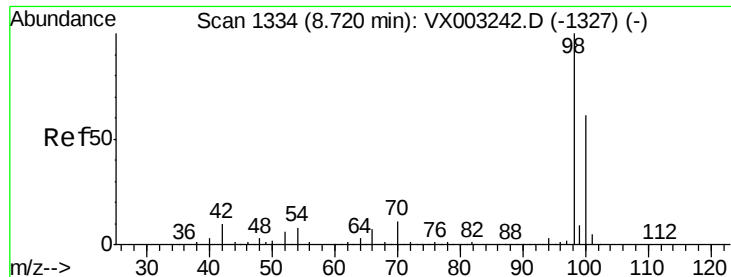
Tot Ion:117 Resp: 22902
Ion Ratio Lower Upper
117 100
119 5.3 77.4 116.0#
121 0.0 24.4 36.6#



#49
1,4-Dioxane
Concen: 0.21 ug/l
RT: 7.50 min Scan# 1134
Delta R.T. -0.26 min
Lab File: VX003267.D
Acq: 10 Jul 2018 01:50

Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 0.0 29.8 44.6#
58 0.0 57.1 85.7#





#50

Toluene-d8

Concen: 37.54 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003267.D

Acq: 10 Jul 2018 01:50

Instrument :

MSVOA_X

ClientSampleId :

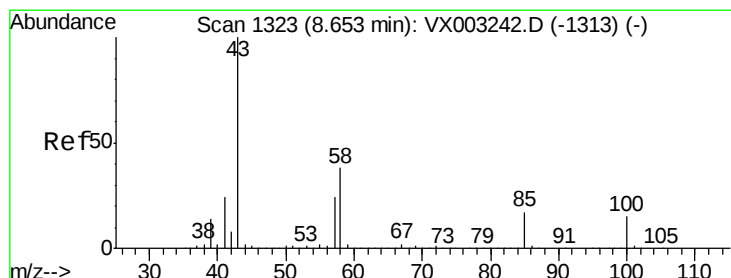
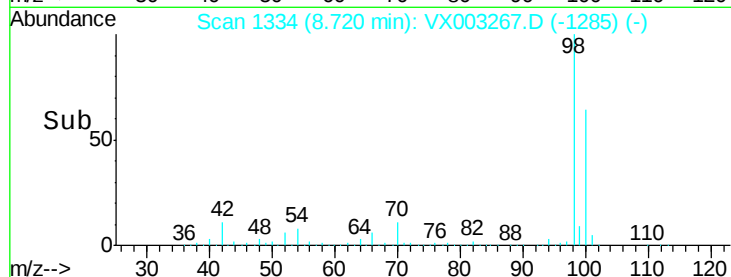
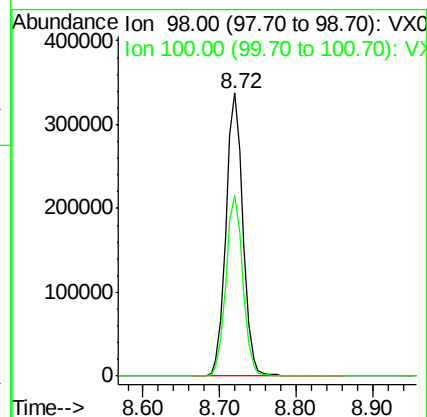
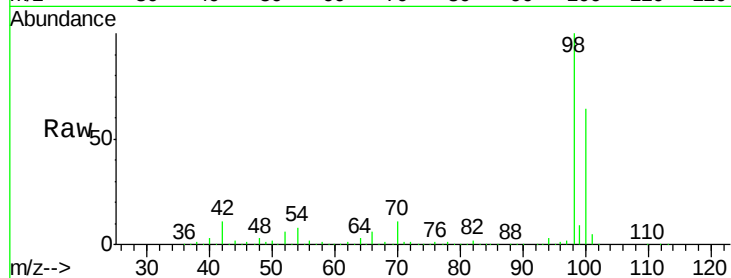
PB110911ZHE#13

Tot Ion: 98 Resp: 519780

Ion Ratio Lower Upper

98 100

100 64.0 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 0.39 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. 0.00 min

Lab File: VX003267.D

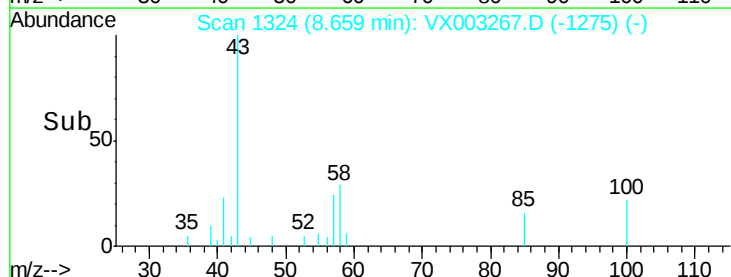
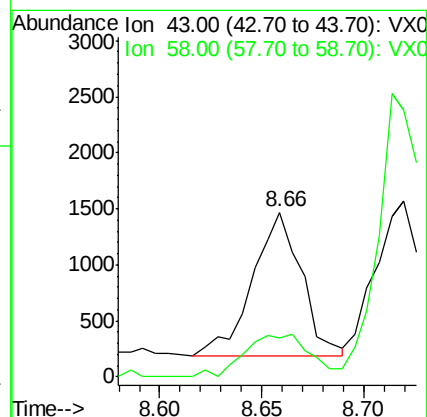
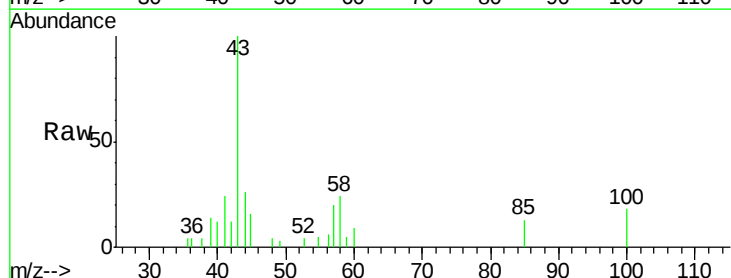
Acq: 10 Jul 2018 01:50

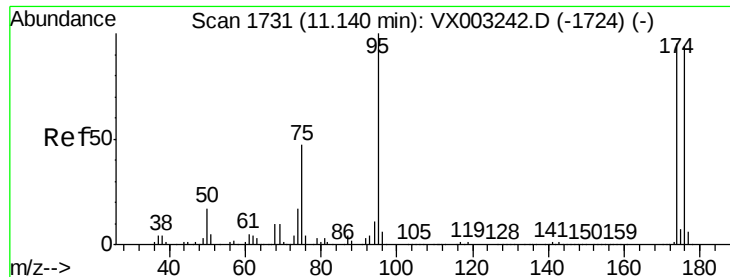
Tgt Ion: 43 Resp: 2154

Ion Ratio Lower Upper

43 100

58 39.7 28.6 42.8

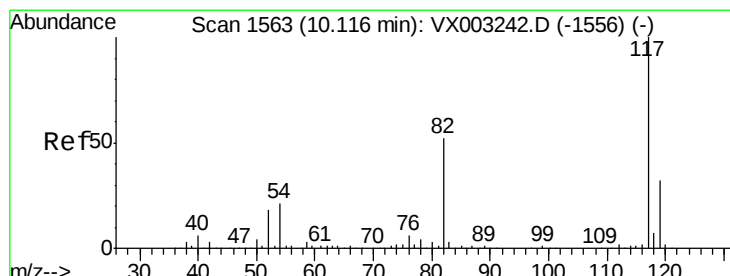
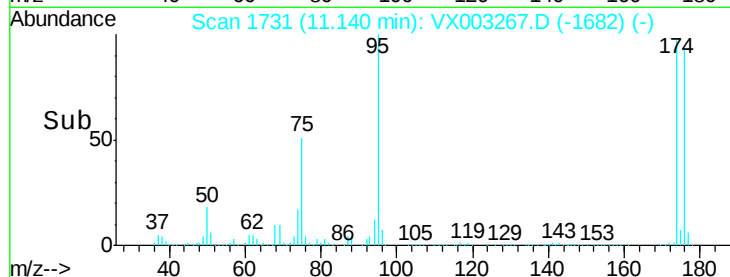
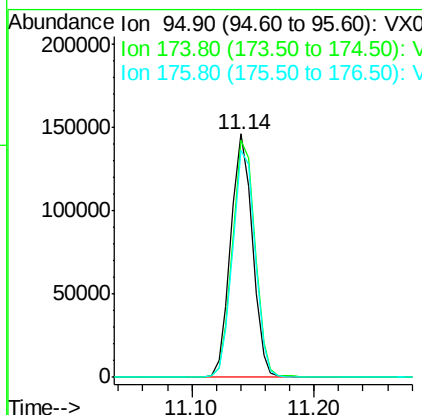
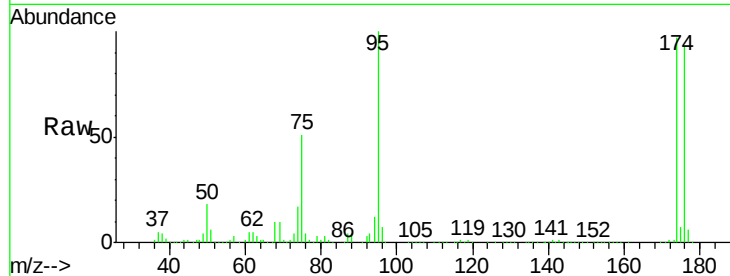




#62
4-Bromofluorobenzene
Concen: 35.06 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003267.D
Acq: 10 Jul 2018 01:50

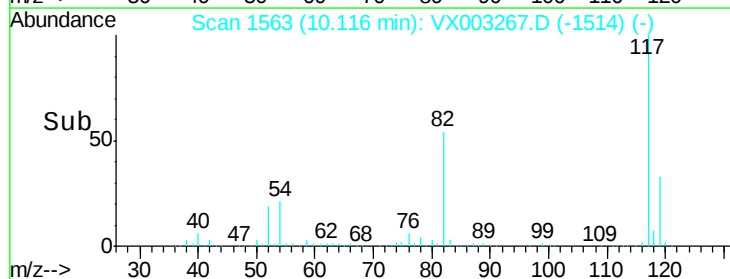
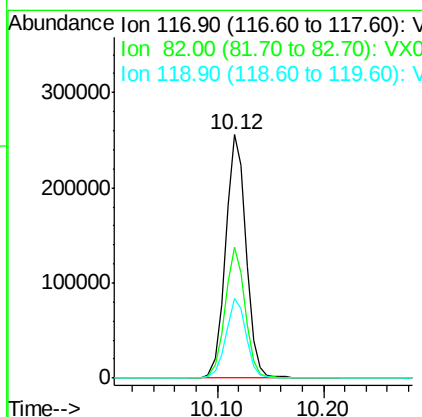
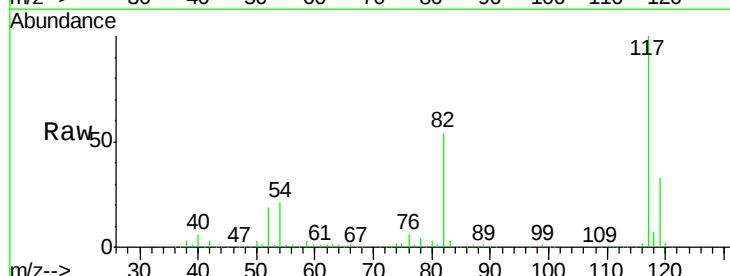
Instrument :
MSVOA_X
ClientSampleId :
PB110911ZHE#13

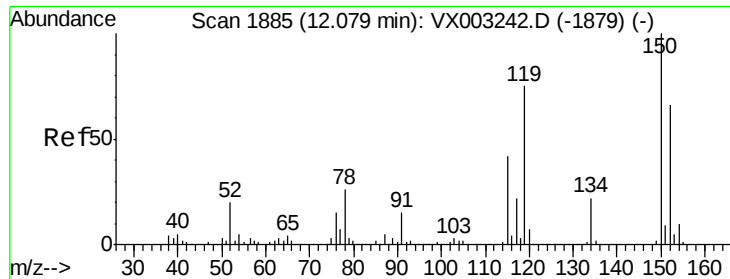
Tot Ion: 95 Resp: 179385
Ion Ratio Lower Upper
95 100
174 101.5 0.0 187.4
176 96.7 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003267.D
Acq: 10 Jul 2018 01:50

Tgt Ion: 117 Resp: 345205
Ion Ratio Lower Upper
117 100
82 53.8 45.0 67.4
119 32.9 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003267.D

Acq: 10 Jul 2018 01:50

Instrument :

MSVOA_X

ClientSampleId :

PB110911ZHE#13

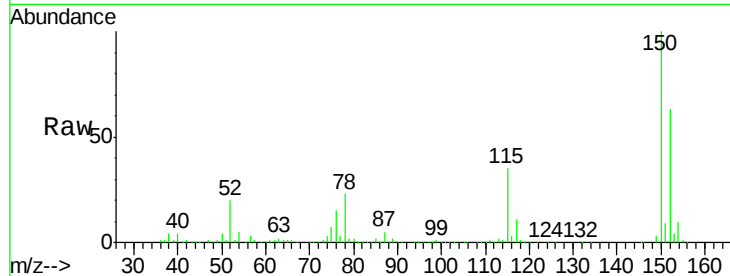
Tot Ion:152 Resp: 195741

Ion Ratio Lower Upper

152 100

115 53.6 40.1 120.2

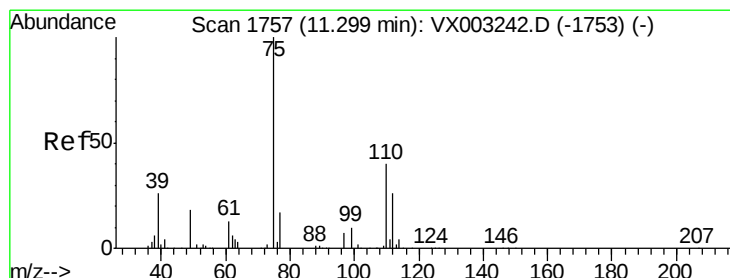
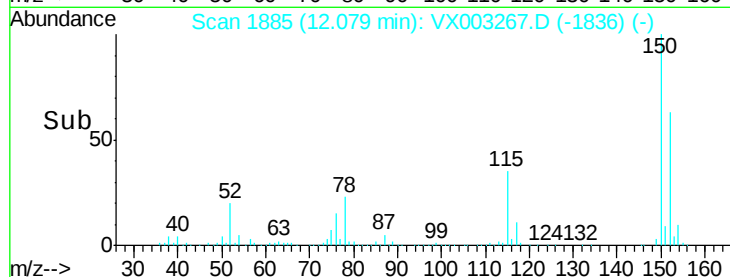
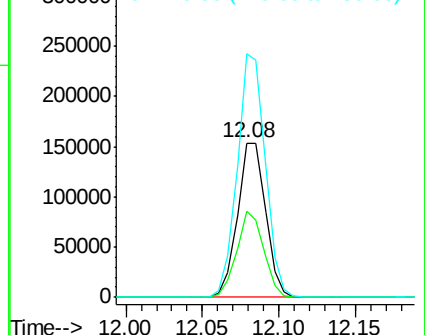
150 157.0 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 21.38 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003267.D

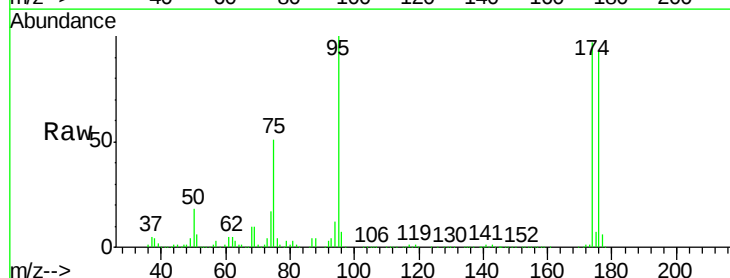
Acq: 10 Jul 2018 01:50

Tgt Ion: 75 Resp: 90461

Ion Ratio Lower Upper

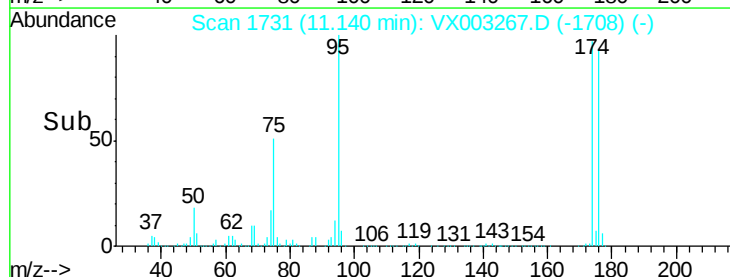
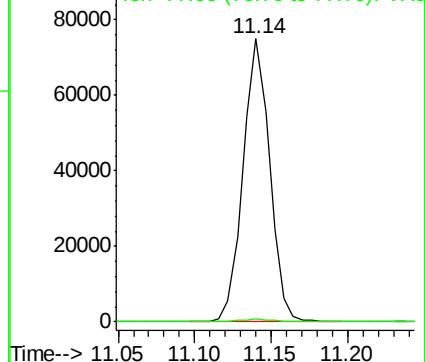
75 100

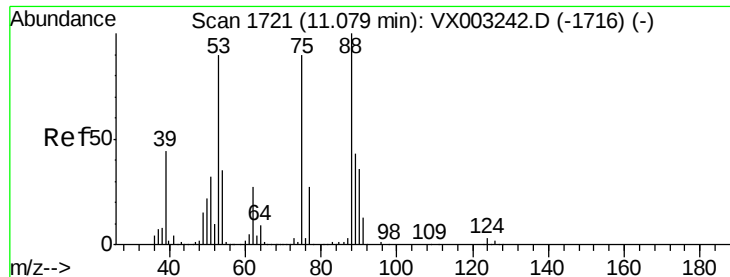
77 1.2 22.8 68.3#



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: 69.89 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003267.D

Acq: 10 Jul 2018 01:50

Instrument :

MSVOA_X

ClientSampleId :

PB110911ZHE#13

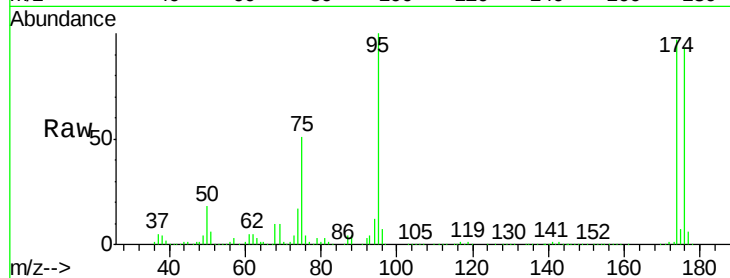
Tot Ion: 75 Resp: 90461

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

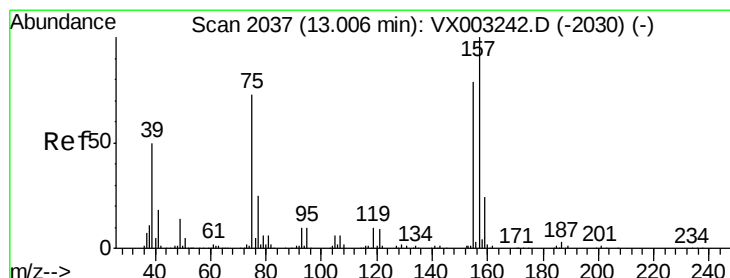
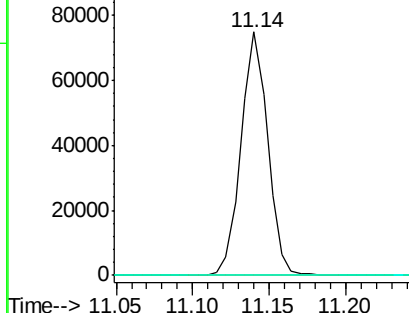
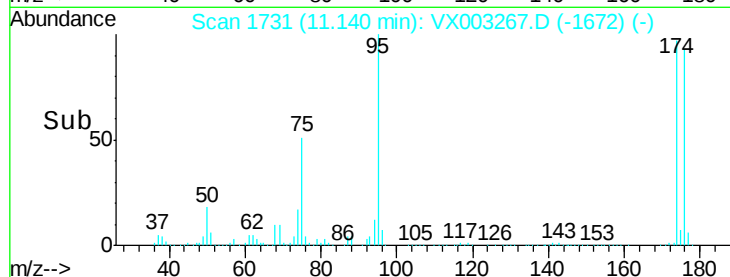
89 0.0 38.2 57.2#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.25 ug/l

RT: 12.98 min Scan# 2033

Delta R.T. -0.02 min

Lab File: VX003267.D

Acq: 10 Jul 2018 01:50

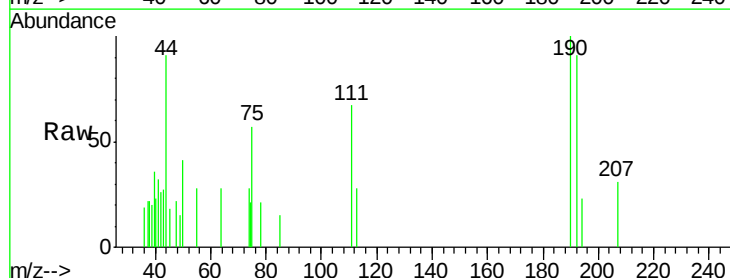
Tgt Ion: 75 Resp: 254

Ion Ratio Lower Upper

75 100

155 0.0 45.8 137.4#

157 0.0 60.1 180.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

