

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX053018\
 Data File : VX002154.D
 Acq On : 30 May 2018 23:04
 Operator : JC/MD
 Sample : J3192-03 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 14B-3

Quant Time: May 31 02:12:07 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\624X052518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 25 02:17:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	33640	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	186065	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	157106	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	85874	32.44	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	108.13%
60) 4-Bromofluorobenzene	11.14	95	70172	26.09	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	86.97%
63) Toluene-d8	8.72	98	221738	31.67	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.57%

Target Compounds

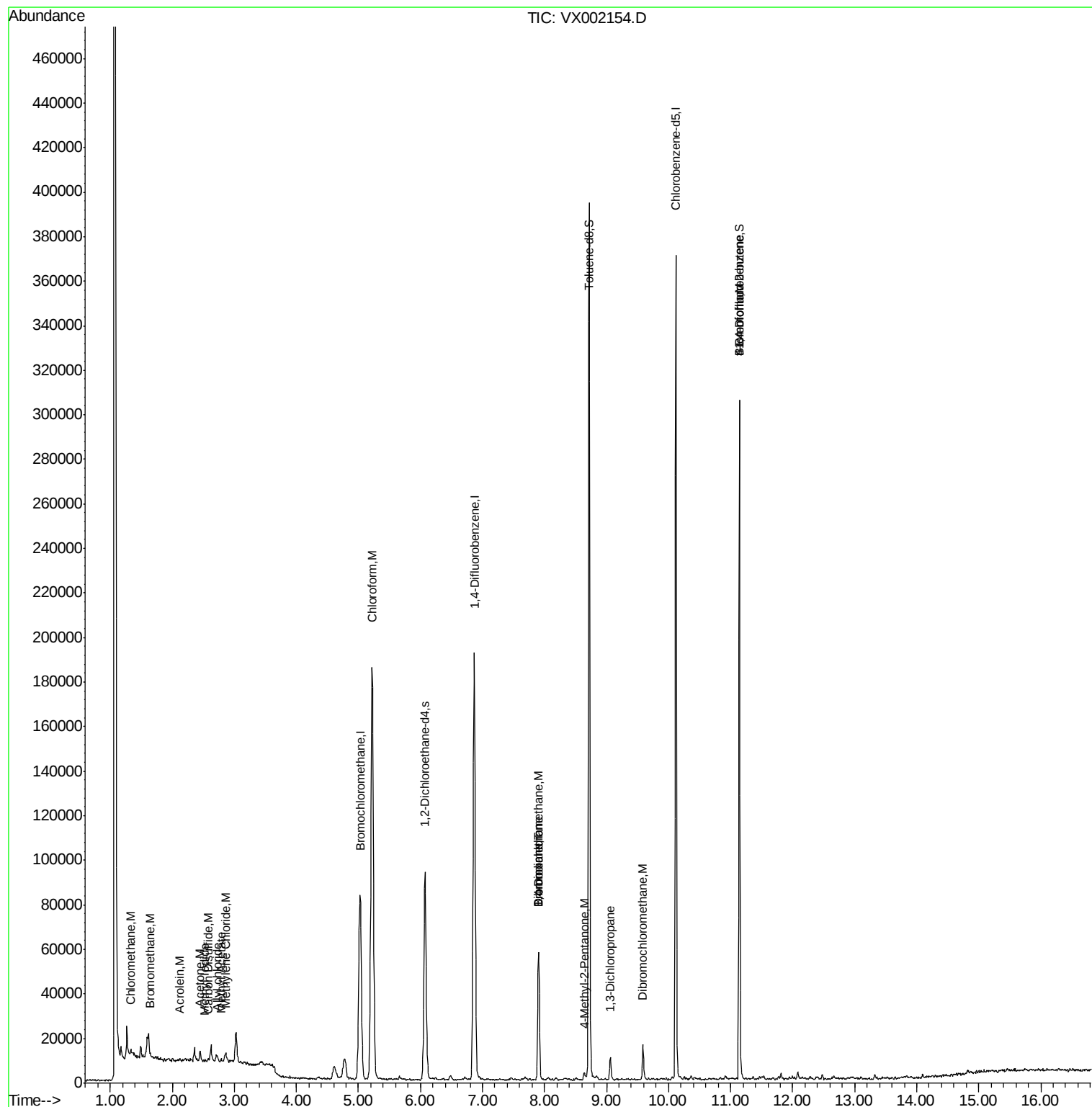
						Qvalue
3) Chloromethane	1.33	50	1222	0.58	ug/l	91
5) Bromomethane	1.64	94	772	0.65	ug/l	81
11) Methyl Iodide	2.52	142	794	0.30	ug/l	95
12) Methyl Acetate	2.78	43	1003	0.37	ug/l	99
13) Acrolein	2.12	56	50	0.22	ug/l	98
15) Acetone	2.45	58	1599	5.37	ug/l	99
16) Carbon Disulfide	2.58	76	1021	0.21	ug/l #	86
17) Allyl chloride	2.72	41	3328	0.96	ug/l #	44
18) Methylene Chloride	2.86	84	1480	0.79	ug/l #	88
25) Chloroform	5.22	83	214208	58.03	ug/l	99
40) Dibromomethane	7.90	93	1228	0.86	ug/l #	1
41) Bromodichloromethane	7.90	83	34258	11.58	ug/l	99
45) 1,4-Dioxane	7.90	88	47	0.83	ug/l #	1
52) 1,3-Dichloropropane	9.06	76	1389	0.40	ug/l	48
53) Dibromochloromethane	9.59	129	2781	1.11	ug/l	99
56) Bromoform	11.14	173	775	0.35	ug/l #	1
58) 4-Methyl-2-Pentanone	8.64	43	3154	0.92	ug/l #	52
77) t-1,4-Dichloro-2-butene	11.14	75	37689	38.39	ug/l #	11

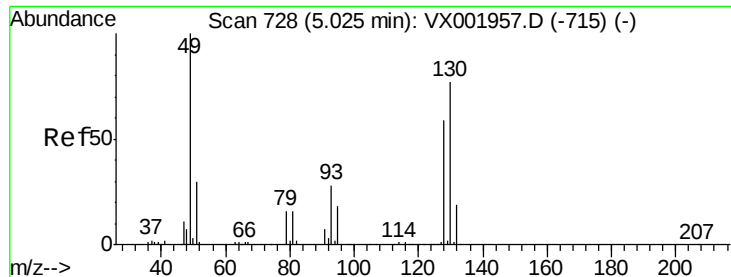
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri May 25 02:17:15 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 5.03 min Scan# 729

Delta R.T. 0.01 min

Lab File: VX002154.D

Acq: 30 May 2018 23:04

Instrument :

MSVOA_X

ClientSampled :

14B-3

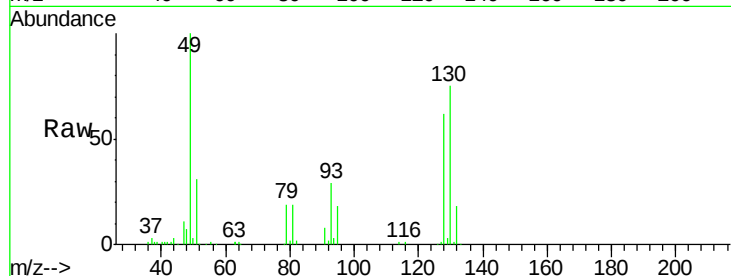
Tgt Ion:128 Resp: 33640

Ion Ratio Lower Upper

128 100

49 176.5 0.0 423.0

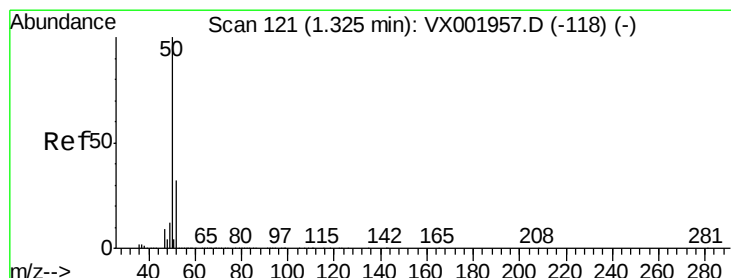
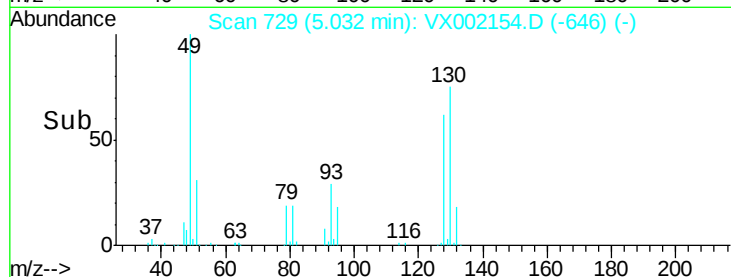
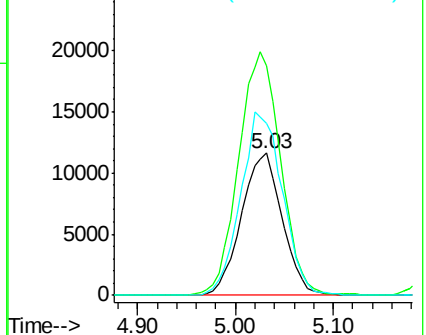
130 132.2 0.0 324.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.58 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002154.D

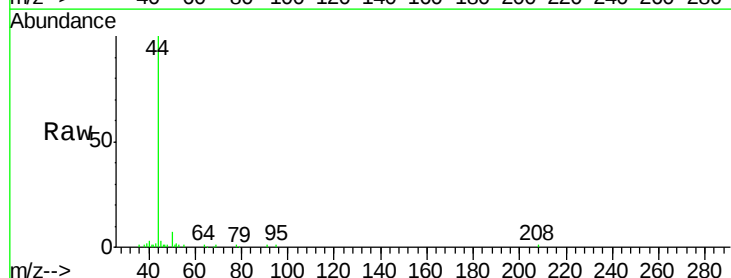
Acq: 30 May 2018 23:04

Tgt Ion: 50 Resp: 1222

Ion Ratio Lower Upper

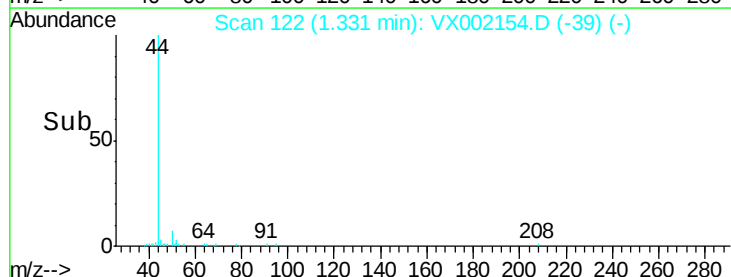
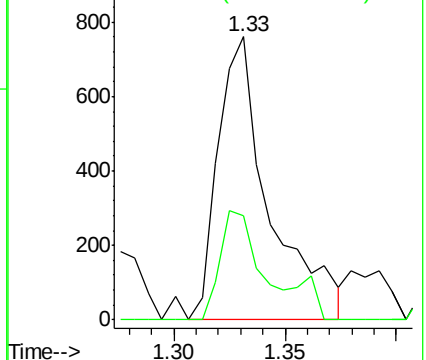
50 100

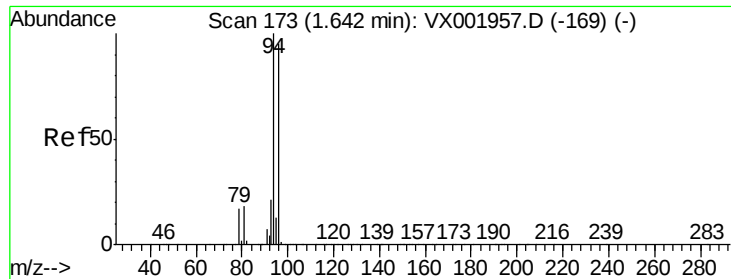
52 36.9 25.6 38.4



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#5

Bromomethane

Concen: 0.65 ug/l

RT: 1.64 min Scan# 173

Delta R.T. 0.00 min

Lab File: VX002154.D

Acq: 30 May 2018 23:04

Instrument :

MSVOA_X

ClientSampleId :

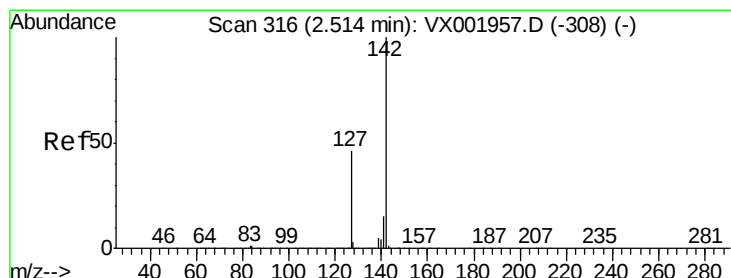
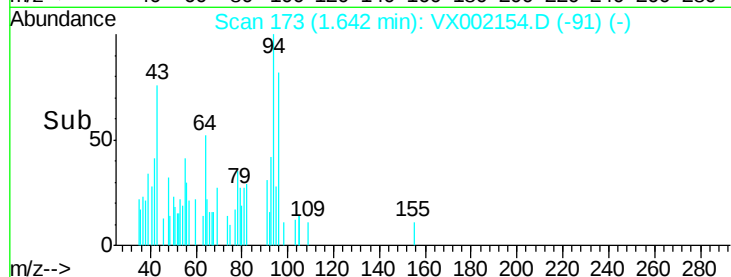
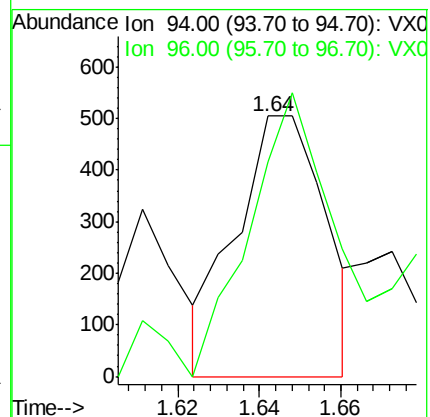
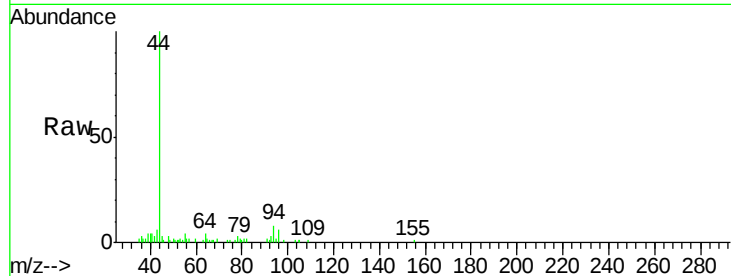
14B-3

Tgt Ion: 94 Resp: 772

Ion Ratio Lower Upper

94 100

96 113.1 75.7 113.5



#11

Methyl Iodide

Concen: 0.30 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002154.D

Acq: 30 May 2018 23:04

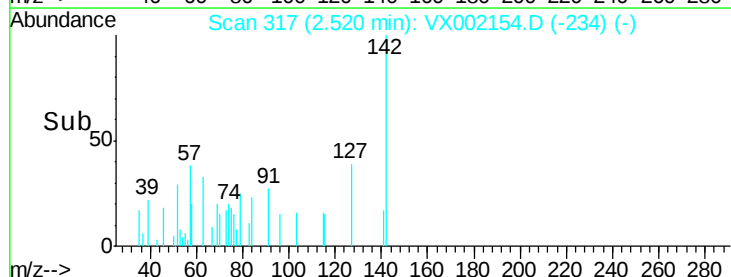
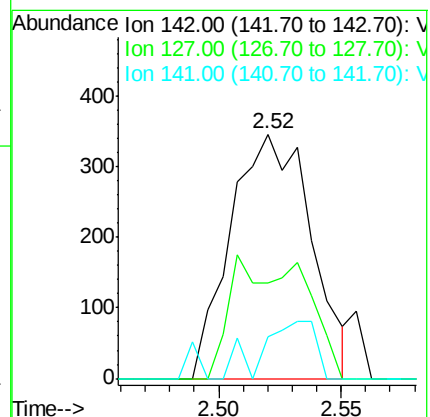
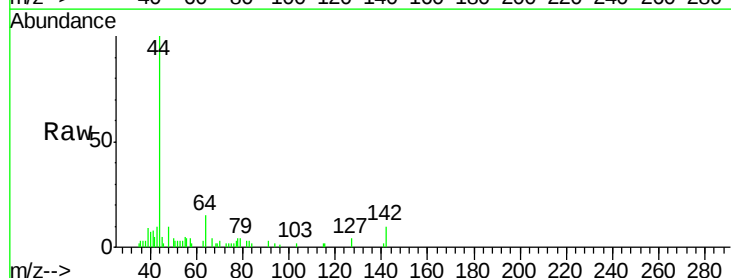
Tgt Ion: 142 Resp: 794

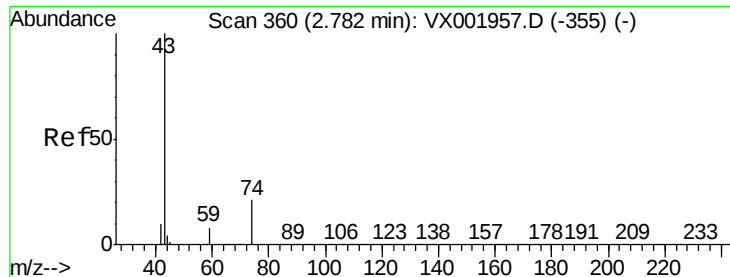
Ion Ratio Lower Upper

142 100

127 43.7 23.2 69.6

141 10.8 7.4 22.2





#12

Methyl Acetate

Concen: 0.37 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX002154.D

Acq: 30 May 2018 23:04

Instrument :

MSVOA_X

ClientSampled :

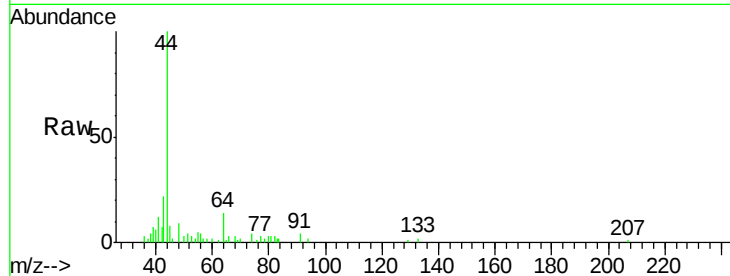
14B-3

Tgt Ion: 43 Resp: 1003

Ion Ratio Lower Upper

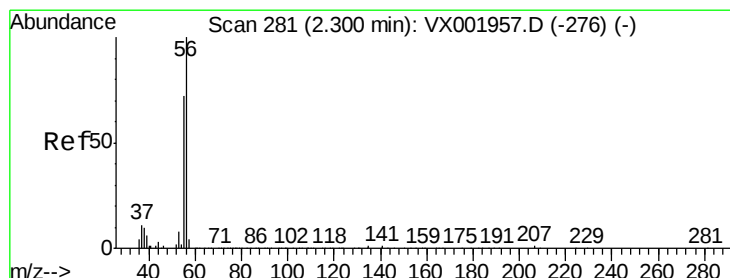
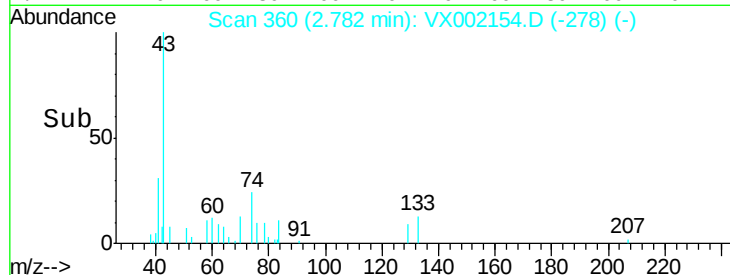
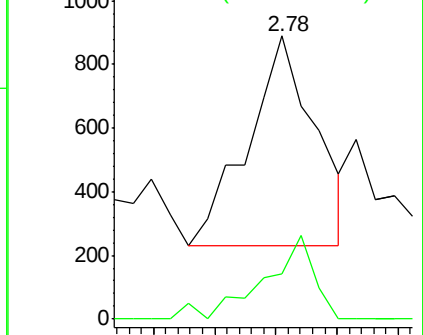
43 100

74 21.2 16.4 24.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#13

Acrolein

Concen: 0.22 ug/l

RT: 2.12 min Scan# 252

Delta R.T. -0.18 min

Lab File: VX002154.D

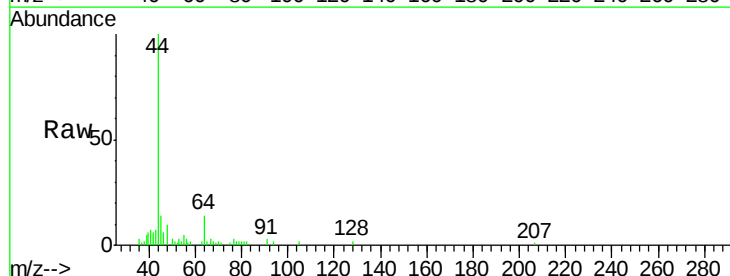
Acq: 30 May 2018 23:04

Tgt Ion: 56 Resp: 50

Ion Ratio Lower Upper

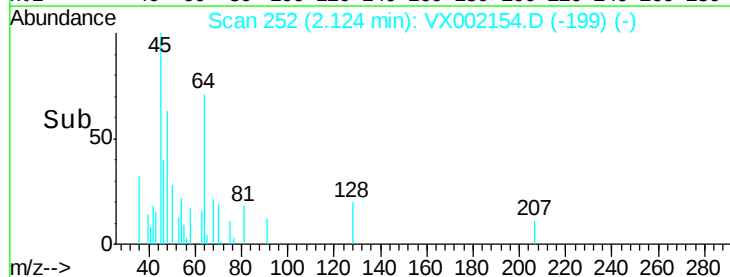
56 100

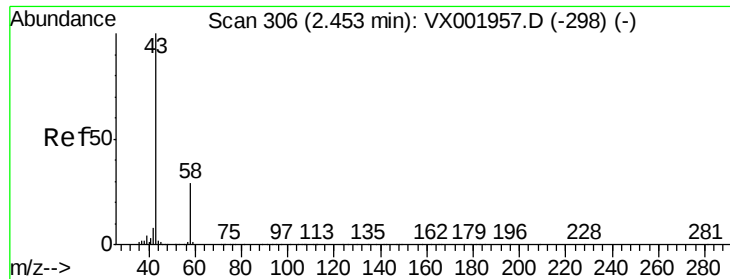
55 70.0 57.3 85.9



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acetone

Concen: 5.37 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002154.D

Acq: 30 May 2018 23:04

Instrument :

MSVOA_X

ClientSampleId :

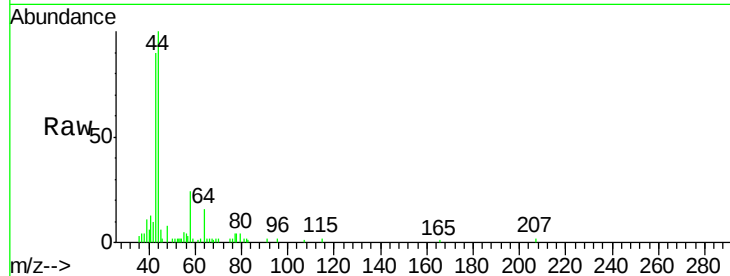
14B-3

Tgt Ion: 58 Resp: 1599

Ion Ratio Lower Upper

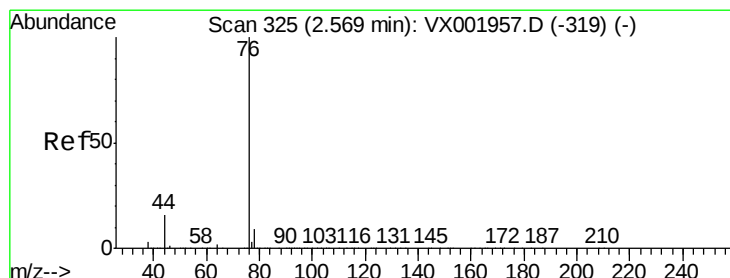
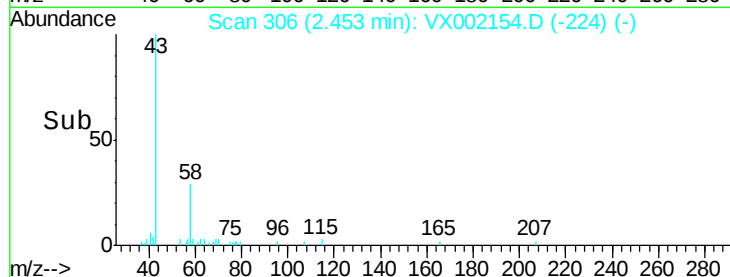
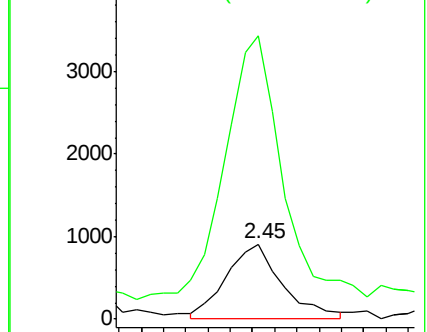
58 100

43 349.6 278.8 418.2



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#16

Carbon Disulfide

Concen: 0.21 ug/l

RT: 2.58 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX002154.D

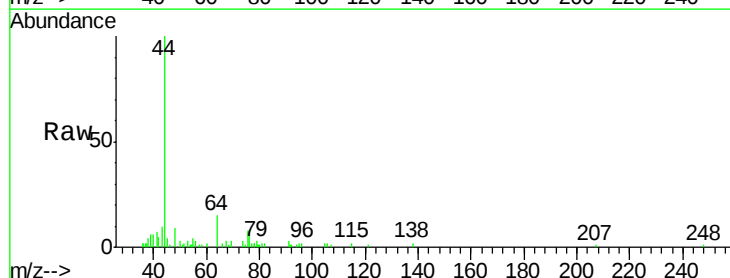
Acq: 30 May 2018 23:04

Tgt Ion: 76 Resp: 1021

Ion Ratio Lower Upper

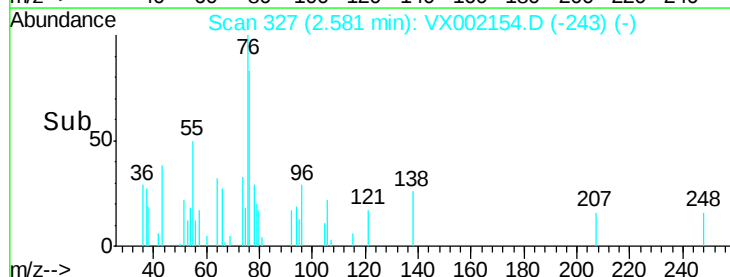
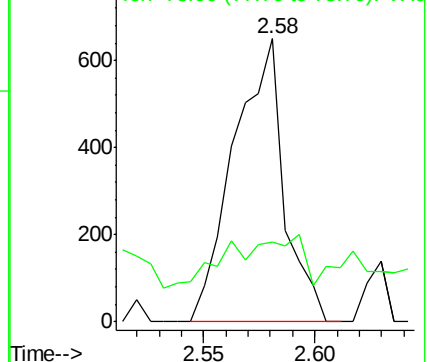
76 100

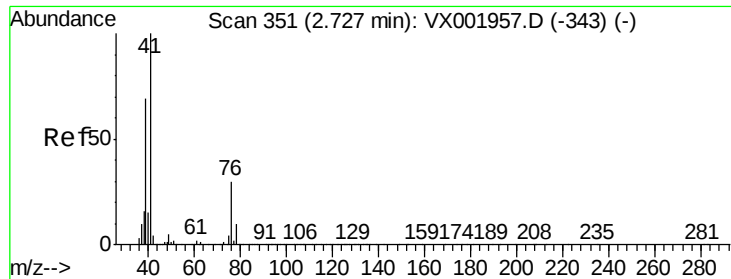
78 14.2 7.4 11.0#



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0

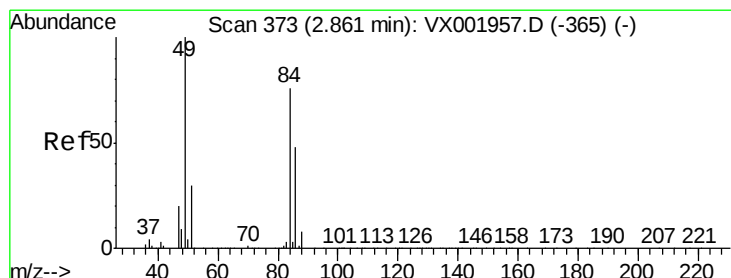
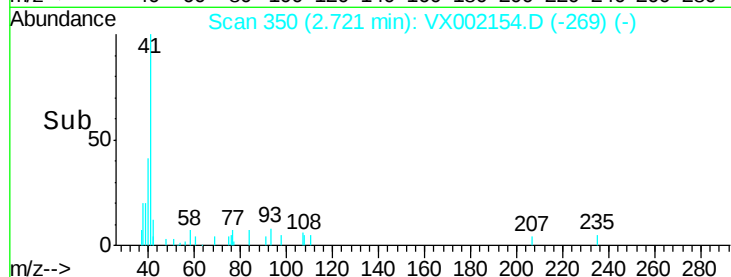
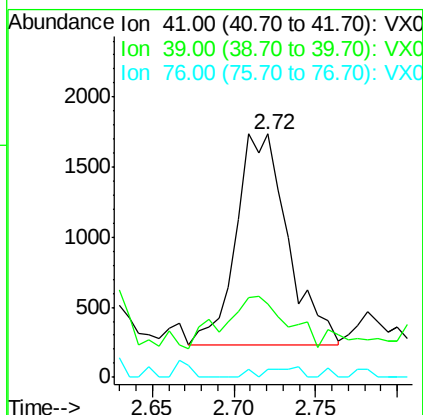
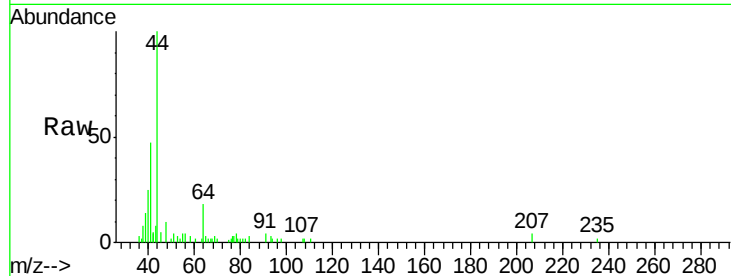




#17
 Allyl chloride
 Concen: 0.96 ug/l
 RT: 2.72 min Scan# 350
 Delta R.T. -0.01 min
 Lab File: VX002154.D
 Acq: 30 May 2018 23:04

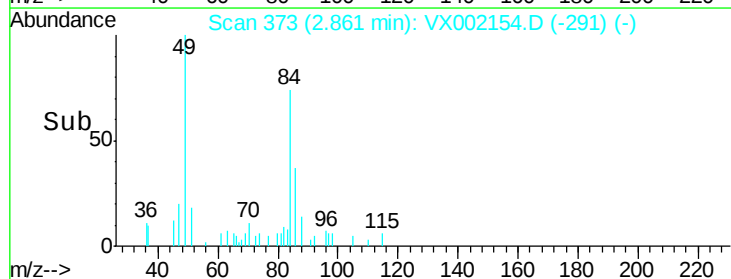
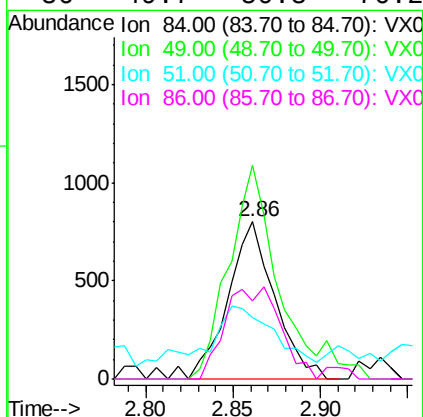
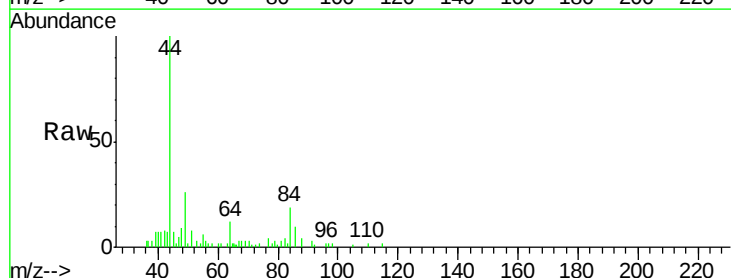
Instrument :
 MSVOA_X
 ClientSampled :
 14B-3

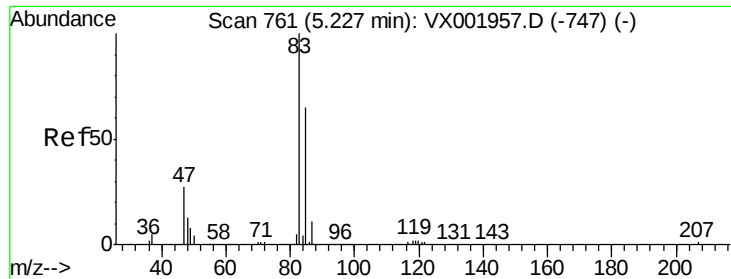
Tgt Ion: 41 Resp: 3328
 Ion Ratio Lower Upper
 41 100
 39 21.1 34.6 103.8#
 76 4.1 15.0 45.1#



#18
 Methylene Chloride
 Concen: 0.79 ug/l
 RT: 2.86 min Scan# 373
 Delta R.T. 0.00 min
 Lab File: VX002154.D
 Acq: 30 May 2018 23:04

Tgt Ion: 84 Resp: 1480
 Ion Ratio Lower Upper
 84 100
 49 136.0 104.7 157.1
 51 23.0 31.0 46.4#
 86 49.7 50.8 76.2#





#25

Chloroform

Concen: 58.03 ug/l

RT: 5.22 min Scan# 760

Delta R.T. -0.01 min

Lab File: VX002154.D

Acq: 30 May 2018 23:04

Instrument :

MSVOA_X

ClientSampled :

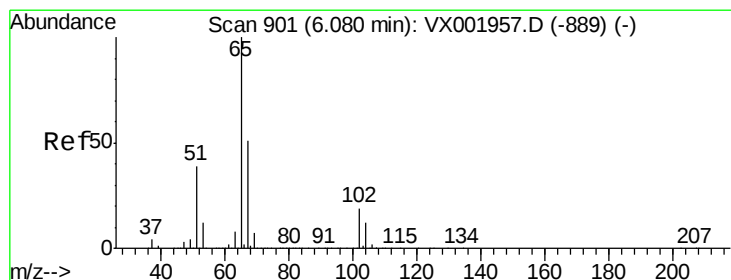
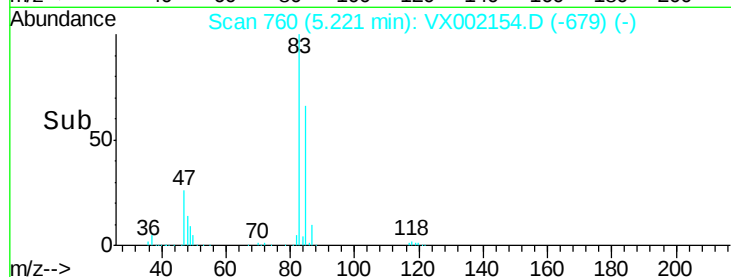
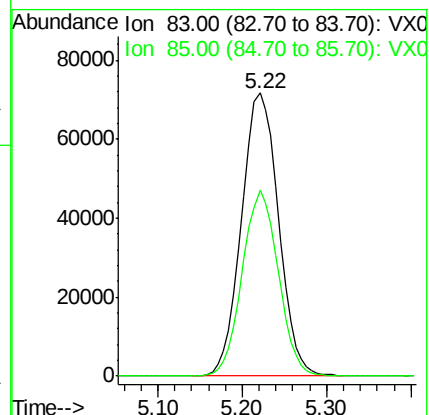
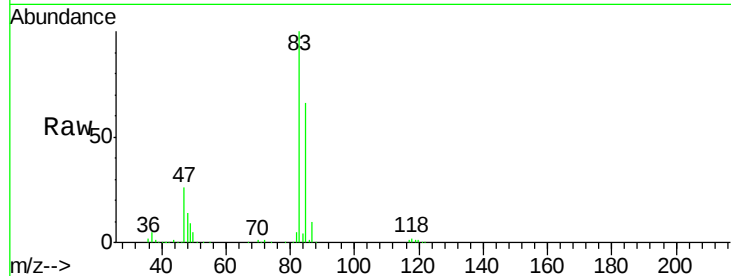
14B-3

Tgt Ion: 83 Resp: 214208

Ion Ratio Lower Upper

83 100

85 65.9 51.9 77.9



#27

1,2-Dichloroethane-d4

Concen: 32.44 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.01 min

Lab File: VX002154.D

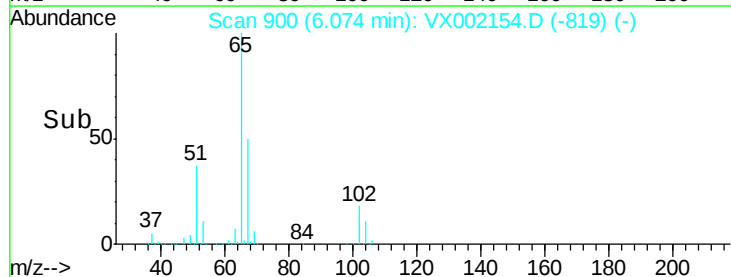
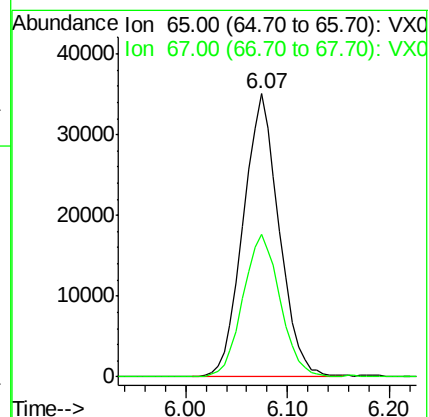
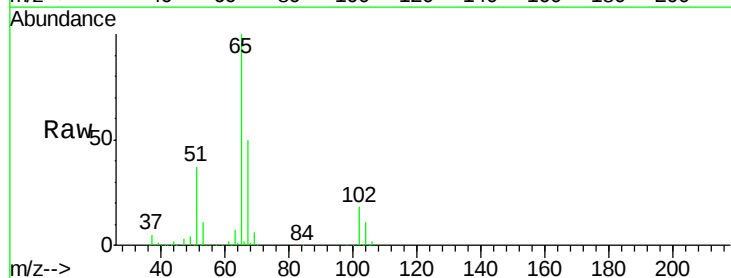
Acq: 30 May 2018 23:04

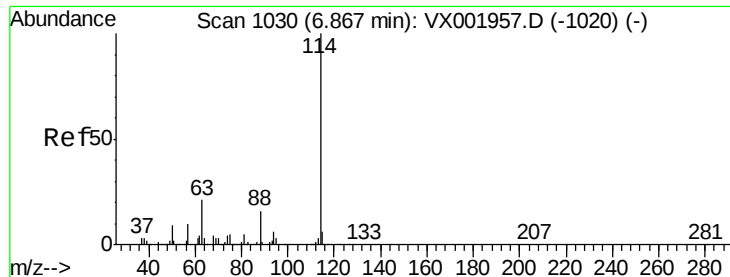
Tgt Ion: 65 Resp: 85874

Ion Ratio Lower Upper

65 100

67 51.9 40.9 61.3

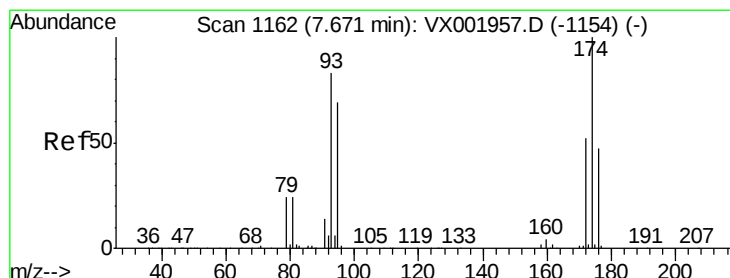
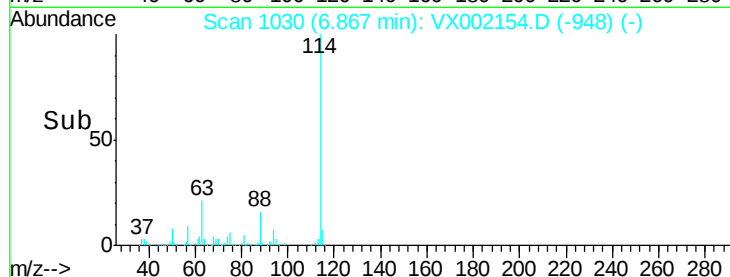
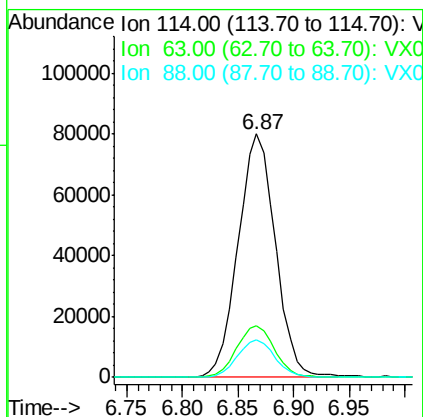
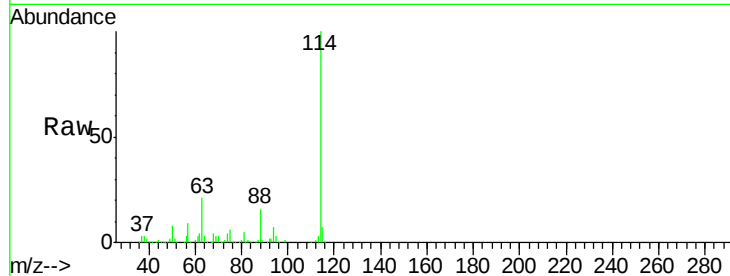




#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002154.D
 Acq: 30 May 2018 23:04

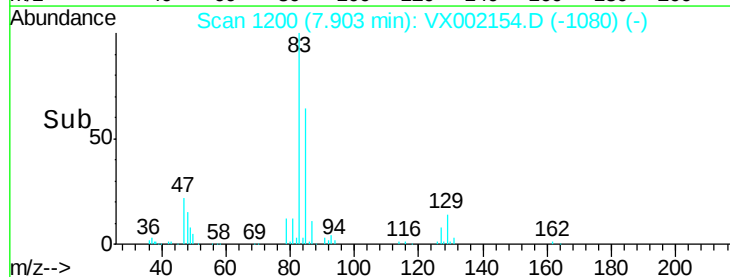
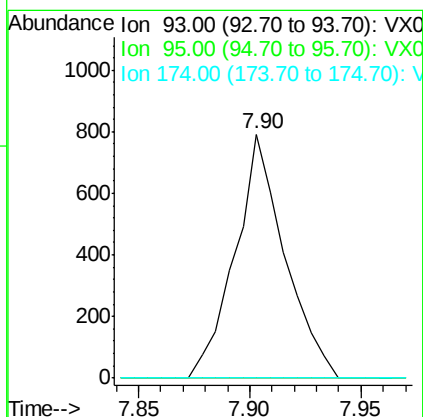
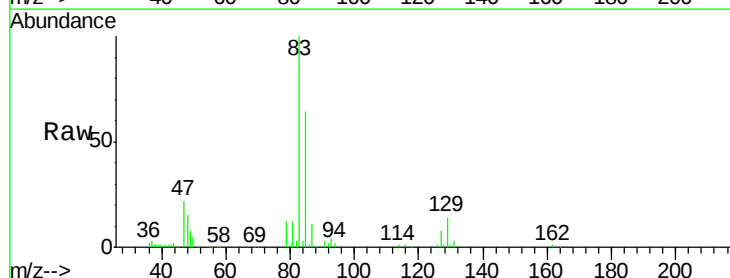
Instrument :
 MSVOA_X
 ClientSampled :
 14B-3

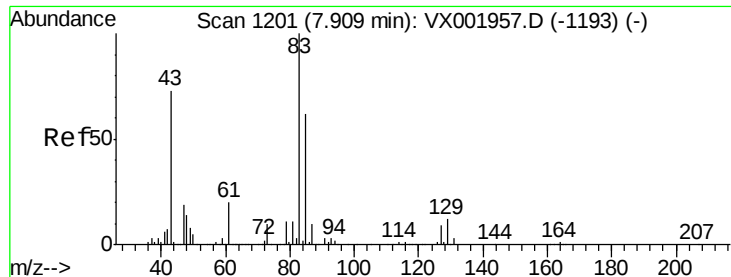
Tgt Ion: 114 Resp: 186065
 Ion Ratio Lower Upper
 114 100
 63 21.8 17.1 25.7
 88 15.5 12.6 19.0



#40
 Dibromomethane
 Concen: 0.86 ug/l
 RT: 7.90 min Scan# 1200
 Delta R.T. 0.23 min
 Lab File: VX002154.D
 Acq: 30 May 2018 23:04

Tgt Ion: 93 Resp: 1228
 Ion Ratio Lower Upper
 93 100
 95 0.0 0.0 162.6
 174 0.0 0.0 229.4





#41

Bromodichloromethane

Concen: 11.58 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. -0.01 min

Lab File: VX002154.D

Acq: 30 May 2018 23:04

Instrument :

MSVOA_X

ClientSampled :

14B-3

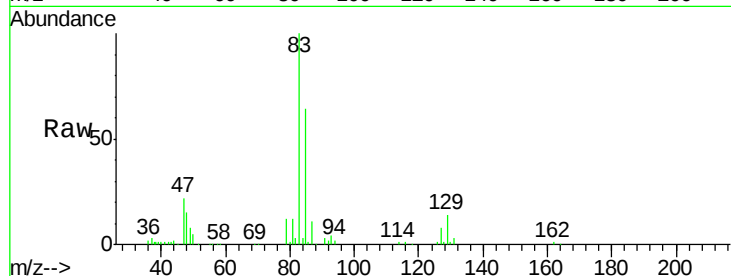
Tgt Ion: 83 Resp: 34258

Ion Ratio Lower Upper

83 100

85 63.2 49.8 74.8

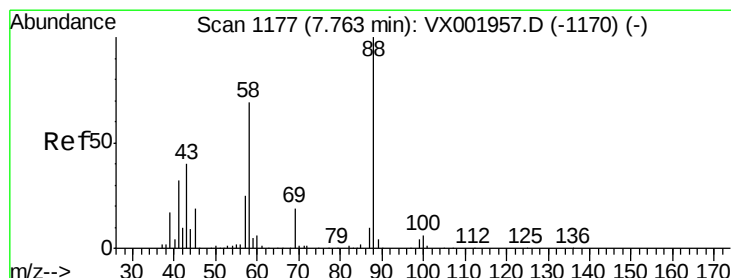
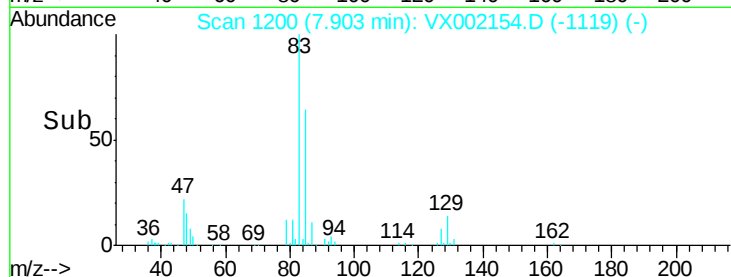
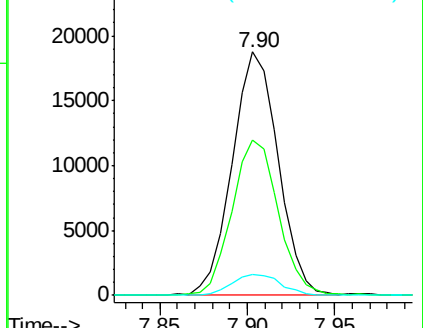
127 9.0 7.3 10.9



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

Ion 127.00 (126.70 to 127.70): V



#45

1,4-Dioxane

Concen: 0.83 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. 0.14 min

Lab File: VX002154.D

Acq: 30 May 2018 23:04

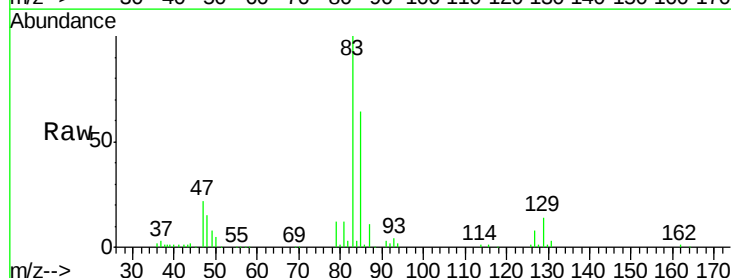
Tgt Ion: 88 Resp: 47

Ion Ratio Lower Upper

88 100

43 663.8 43.2 64.8#

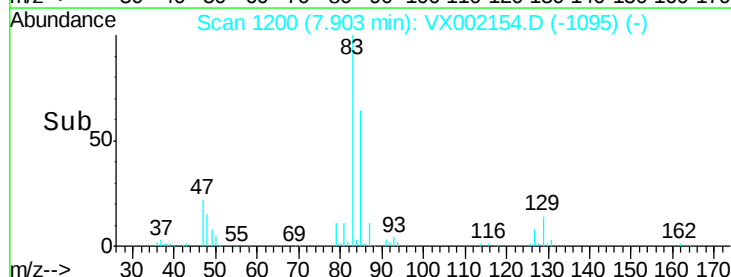
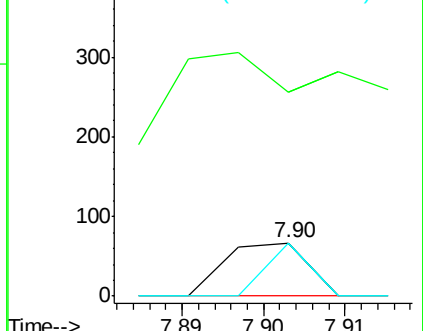
58 0.0 60.2 90.2#

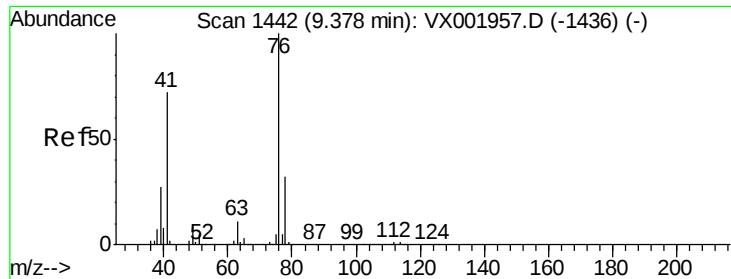


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#52

1,3-Dichloropropane

Concen: 0.40 ug/l

RT: 9.06 min Scan# 1390

Delta R.T. -0.32 min

Lab File: VX002154.D

Acq: 30 May 2018 23:04

Instrument :

MSVOA_X

ClientSampleId :

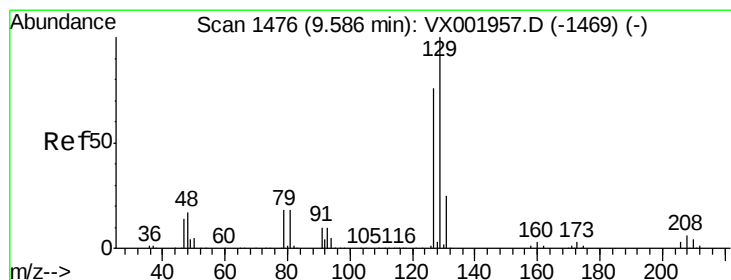
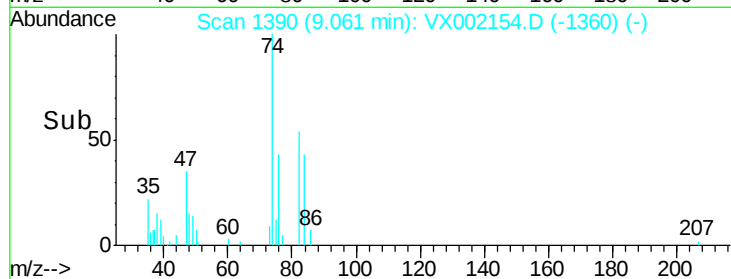
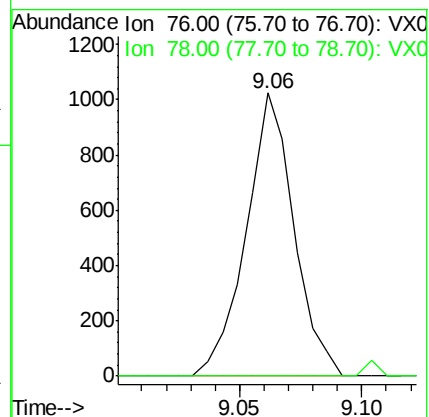
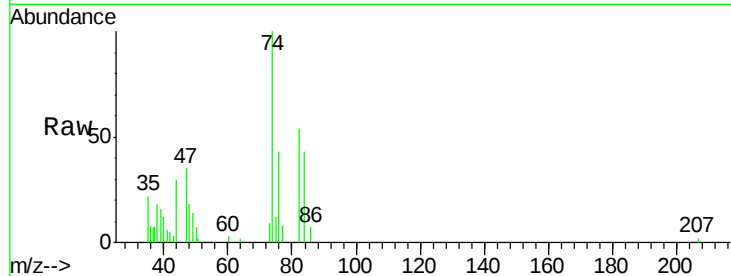
14B-3

Tgt Ion: 76 Resp: 1389

Ion Ratio Lower Upper

76 100

78 3.0 0.0 63.4



#53

Dibromochloromethane

Concen: 1.11 ug/l

RT: 9.59 min Scan# 1476

Delta R.T. 0.00 min

Lab File: VX002154.D

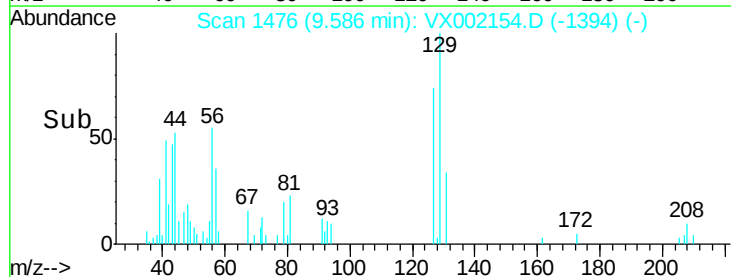
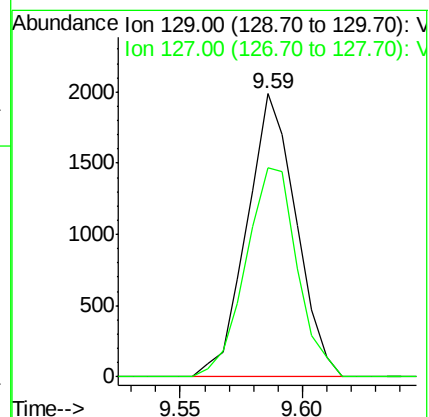
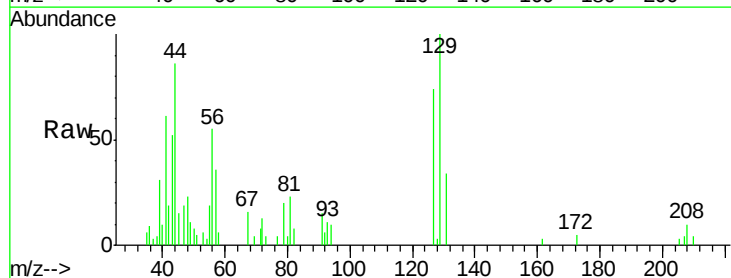
Acq: 30 May 2018 23:04

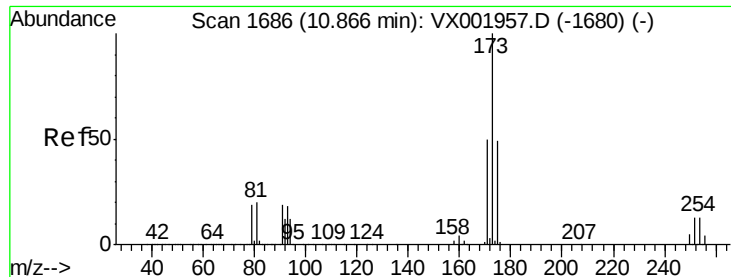
Tgt Ion: 129 Resp: 2781

Ion Ratio Lower Upper

129 100

127 77.8 38.5 115.3

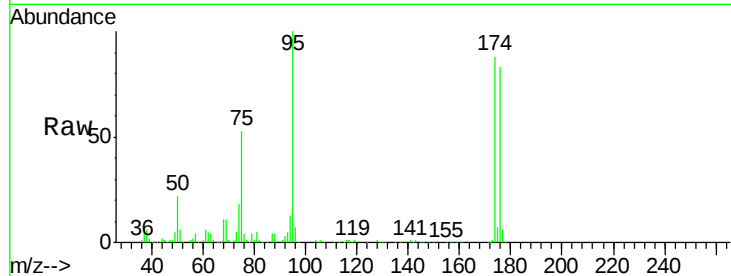




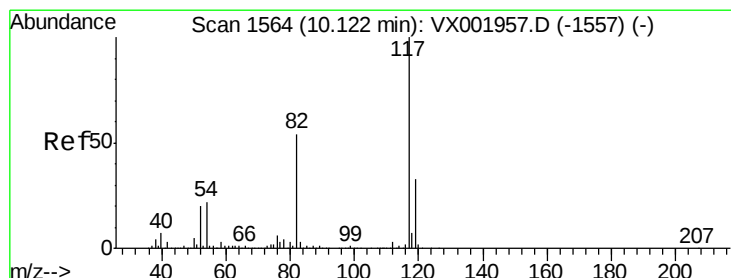
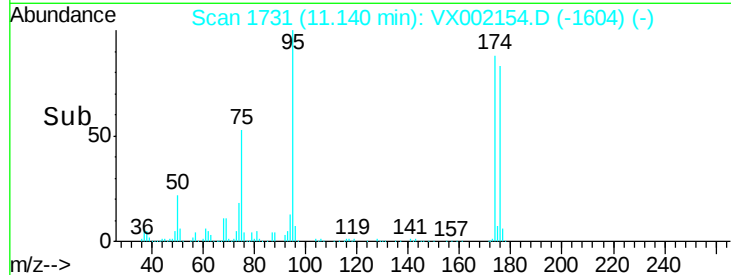
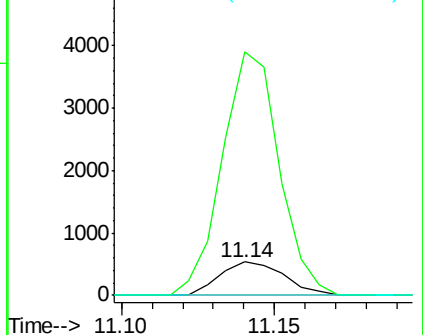
#56
Bromoform
Concen: 0.35 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.27 min
Lab File: VX002154.D
Acq: 30 May 2018 23:04

Instrument :
MSVOA_X
ClientSampled :
14B-3

Tgt Ion:173 Resp: 775
Ion Ratio Lower Upper
173 100
175 648.9 39.0 58.4#
254 0.0 9.6 14.4#

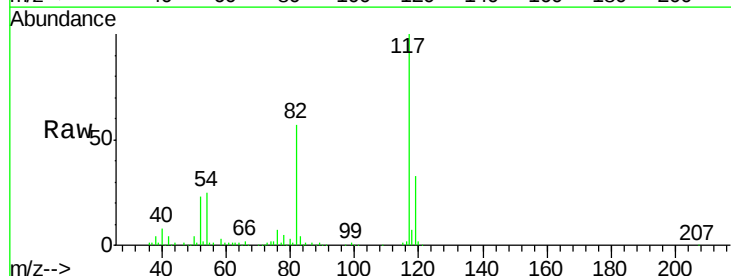


Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V

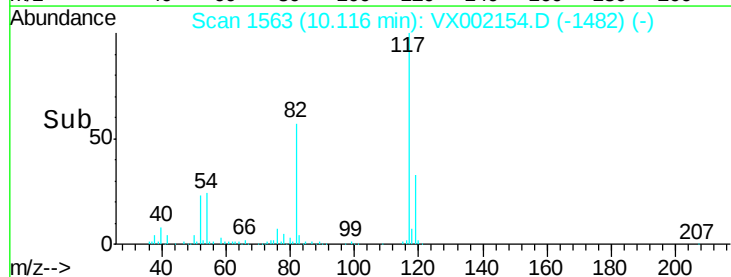
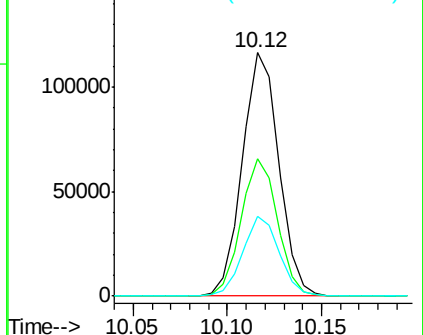


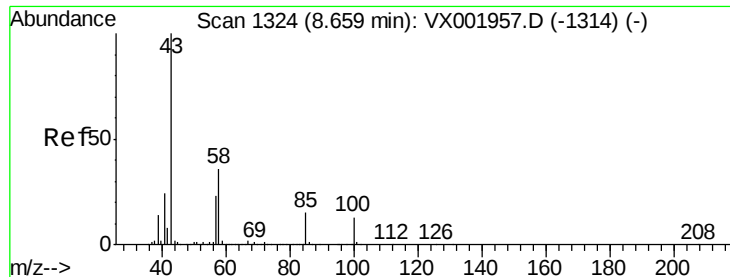
#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.01 min
Lab File: VX002154.D
Acq: 30 May 2018 23:04

Tgt Ion:117 Resp: 157106
Ion Ratio Lower Upper
117 100
82 56.4 44.3 66.5
119 32.6 25.7 38.5



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

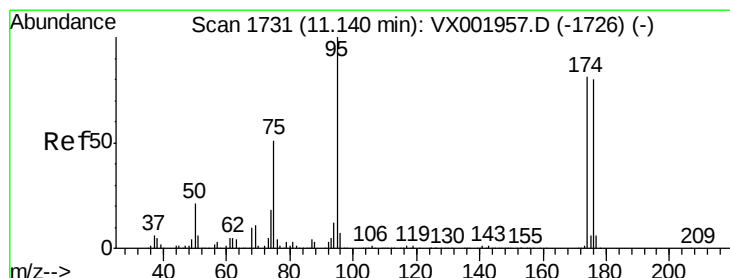
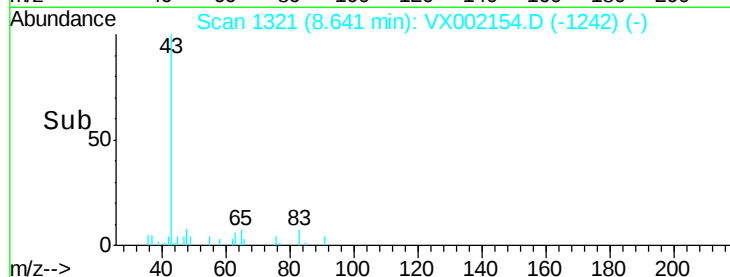
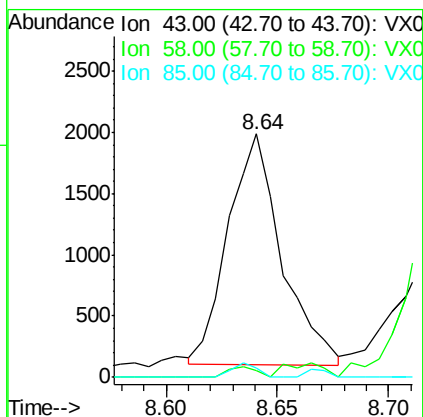
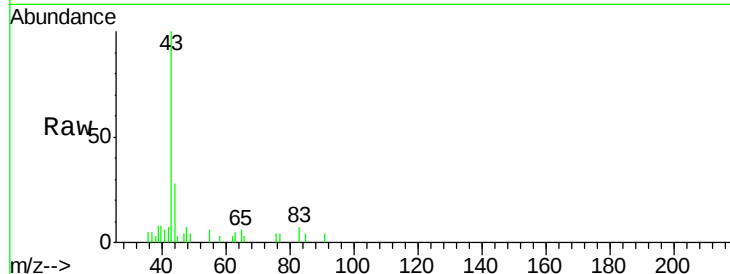




#58
 4-Methyl-2-Pentanone
 Concen: 0.92 ug/l
 RT: 8.64 min Scan# 1321
 Delta R.T. -0.02 min
 Lab File: VX002154.D
 Acq: 30 May 2018 23:04

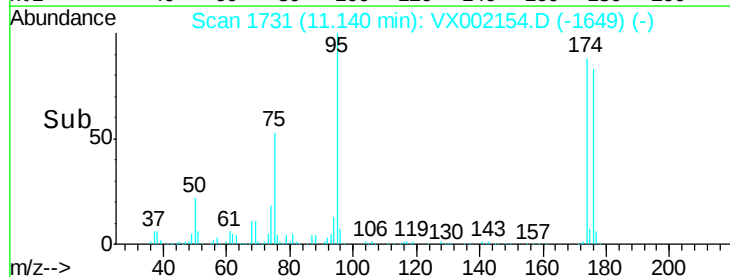
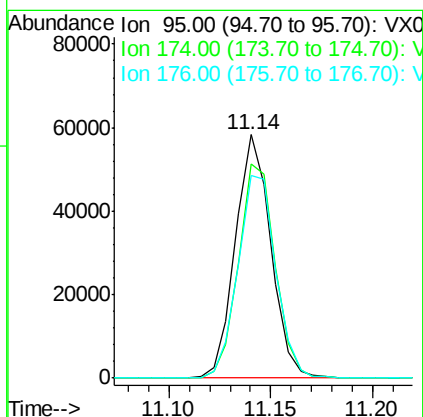
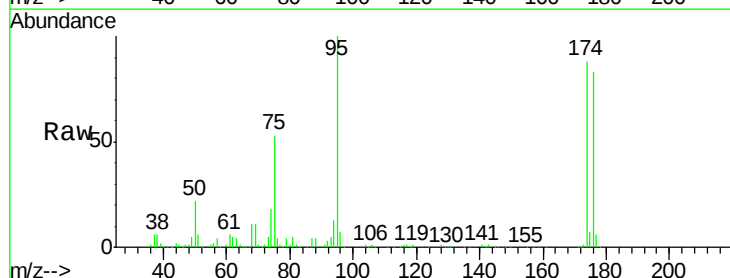
Instrument :
 MSVOA_X
 ClientSampled :
 14B-3

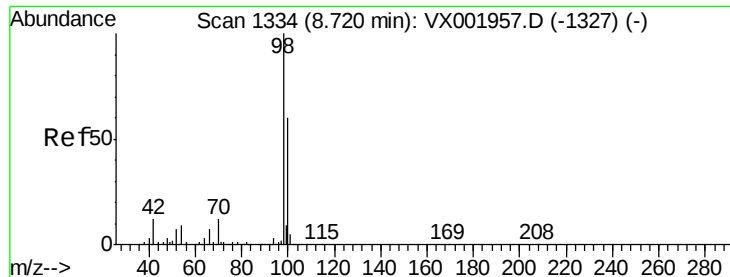
Tgt Ion: 43 Resp: 3154
 Ion Ratio Lower Upper
 43 100
 58 2.3 28.2 42.4#
 85 2.9 12.4 18.6#



#60
 4-Bromofluorobenzene
 Concen: 26.09 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.00 min
 Lab File: VX002154.D
 Acq: 30 May 2018 23:04

Tgt Ion: 95 Resp: 70172
 Ion Ratio Lower Upper
 95 100
 174 91.8 71.8 107.6
 176 89.5 70.1 105.1





#63

Toluene-d8

Concen: 31.67 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002154.D

Acq: 30 May 2018 23:04

Instrument :

MSVOA_X

ClientSampled :

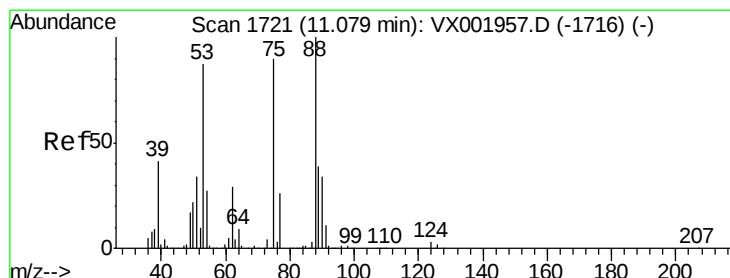
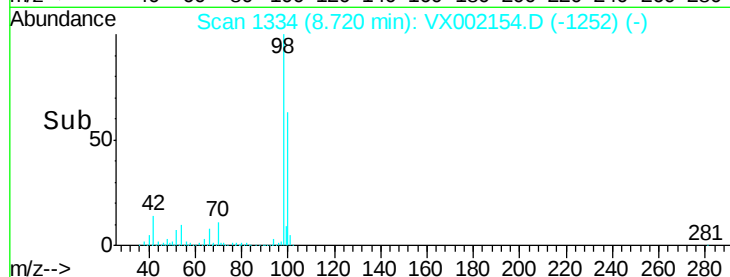
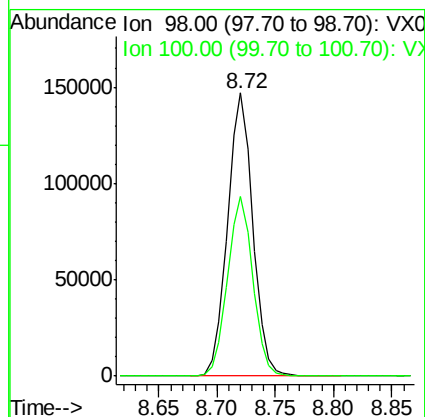
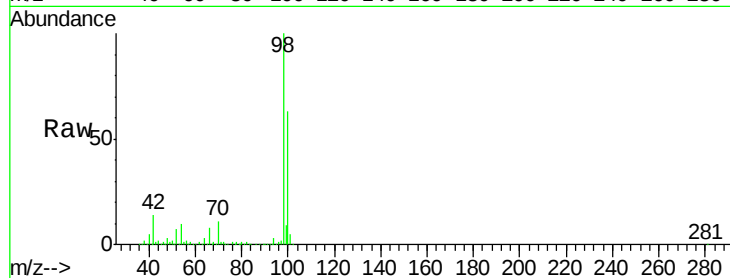
14B-3

Tgt Ion: 98 Resp: 221738

Ion Ratio Lower Upper

98 100

100 63.8 50.8 76.2



#77

t-1,4-Dichloro-2-butene

Concen: 38.39 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002154.D

Acq: 30 May 2018 23:04

Tgt Ion: 75 Resp: 37689

Ion Ratio Lower Upper

75 100

53 0.0 48.3 144.9#

89 0.0 21.8 65.4#

