

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070318\
 Data File : VX003142.D
 Acq On : 03 Jul 2018 11:57
 Operator : JC/MD
 Sample : VX0703WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0703WBL01

Quant Time: Jul 04 03:11:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	259224	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	355724	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	324964	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	176579	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	184686	51.55	ug/l	0.00
Spiked Amount			Recovery	=	103.10%	
35) Dibromofluoromethane	5.51	113	153409	54.46	ug/l	0.00
Spiked Amount			Recovery	=	108.92%	
50) Toluene-d8	8.72	98	555712	54.02	ug/l	0.00
Spiked Amount			Recovery	=	108.04%	
62) 4-Bromofluorobenzene	11.14	95	191592	48.29	ug/l	0.00
Spiked Amount			Recovery	=	96.58%	

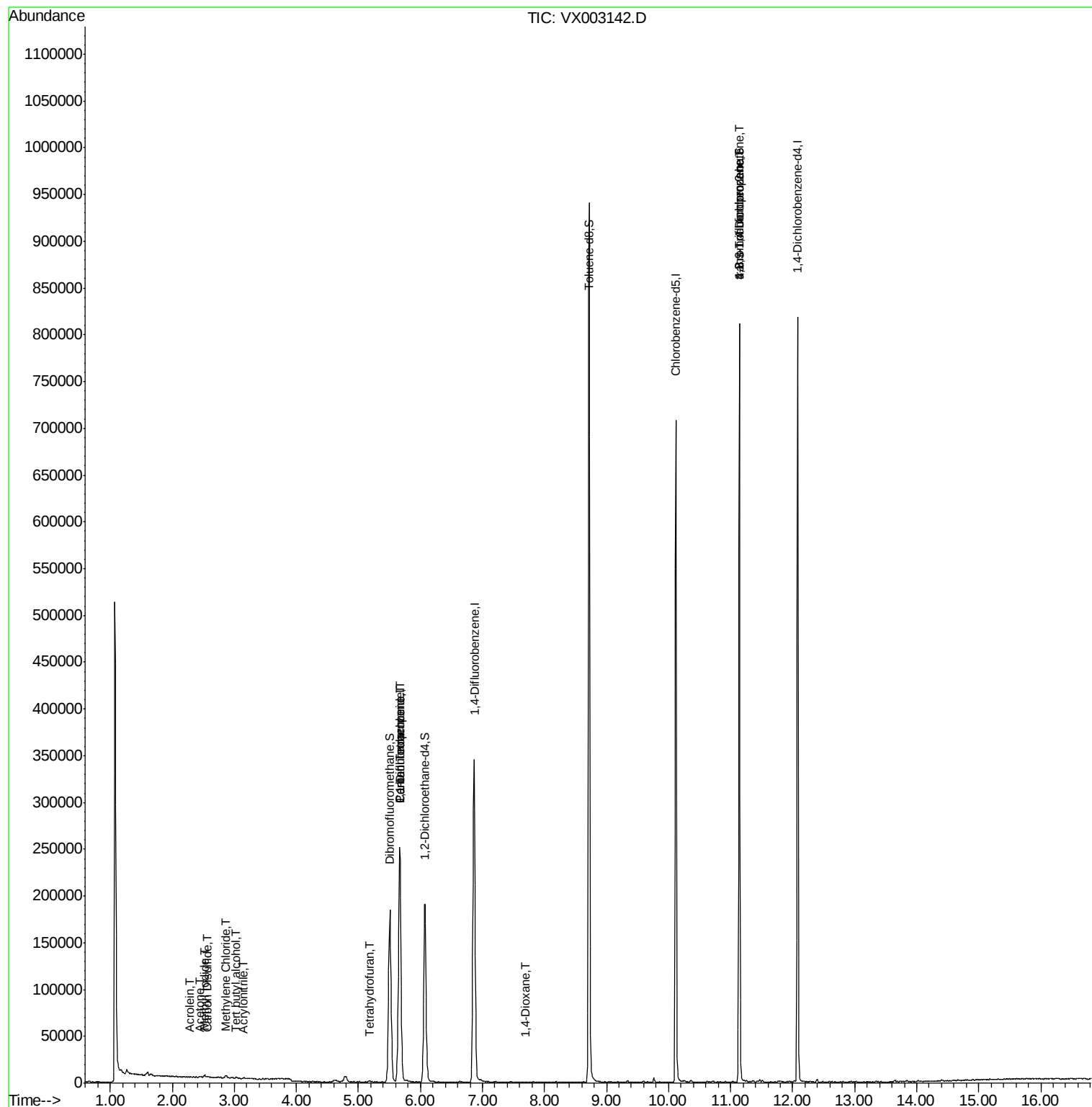
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	42	Below Cal	#	43
3) Chloromethane	1.32	50	772	Below Cal		98
5) Bromomethane	1.65	94	2108	Below Cal		84
6) Chloroethane	1.74	64	412	Below Cal	#	47
10) Methyl Iodide	2.52	142	2860	7.09	ug/l	96
11) Tert butyl alcohol	3.03	59	877	1.23	ug/l	97
13) Acrolein	2.28	56	163	4.63	ug/l	# 25
15) Acrylonitrile	3.15	53	604	0.40	ug/l	# 80
16) Acetone	2.45	43	706	0.48	ug/l	# 79
17) Carbon Disulfide	2.57	76	1824	0.27	ug/l	# 86
20) Methylene Chloride	2.86	84	1273	0.44	ug/l	# 89
29) Tetrahydrofuran	5.18	42	1271	0.90	ug/l	# 71
36) 1,1-Dichloropropene	5.67	75	17014	4.36	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	22879	5.34	ug/l	# 15
49) 1,4-Dioxane	7.68	88	44	0.62	ug/l	# 56
76) 1,2,3-Trichloropropane	11.14	75	96855	30.28	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	96855	85.31	ug/l	# 7

(#) = 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. 0.00 min

Lab File: VX003142.D

Acq: 03 Jul 2018 11:57

Instrument :

MSVOA_X

ClientSampled :

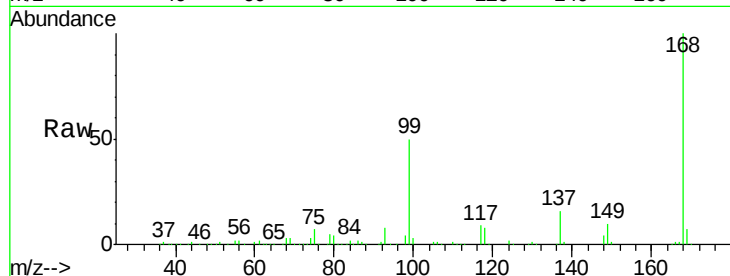
VX0703WBL01

Tot Ion:168 Resp: 259224

Ion Ratio Lower Upper

168 100

99 50.0 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

100000

80000

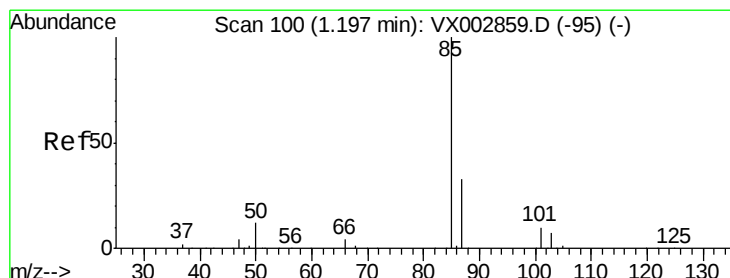
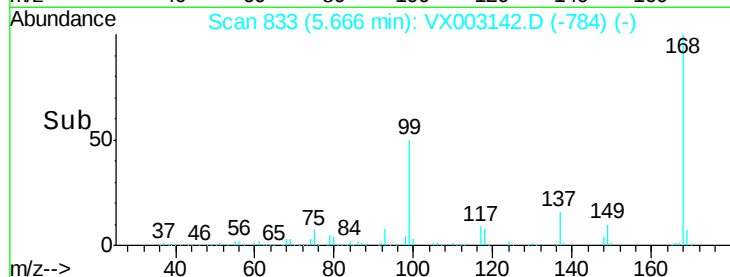
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.19 min Scan# 99

Delta R.T. -0.01 min

Lab File: VX003142.D

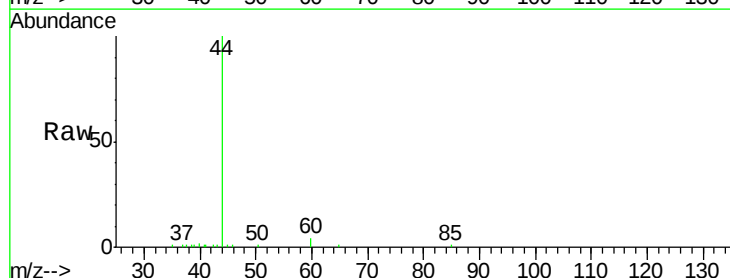
Acq: 03 Jul 2018 11:57

Tgt Ion: 85 Resp: 42

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

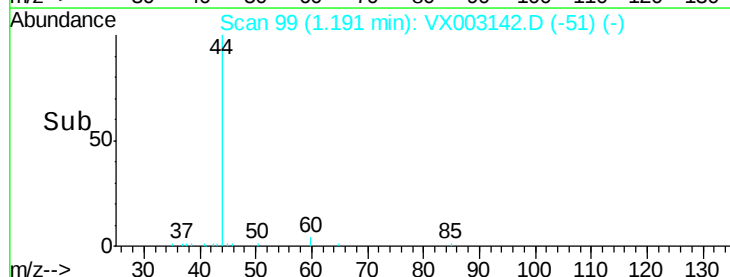
60

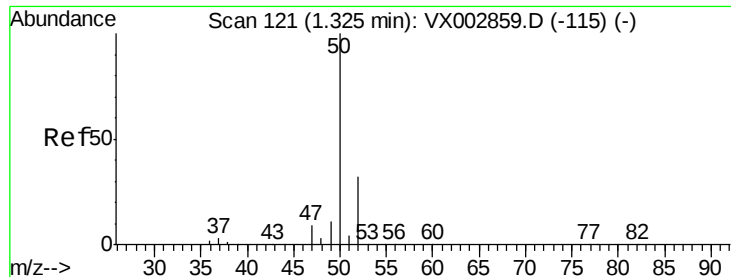
40

20

0

Time--> 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003142.D

Acq: 03 Jul 2018 11:57

Instrument :

MSVOA_X

ClientSampleId :

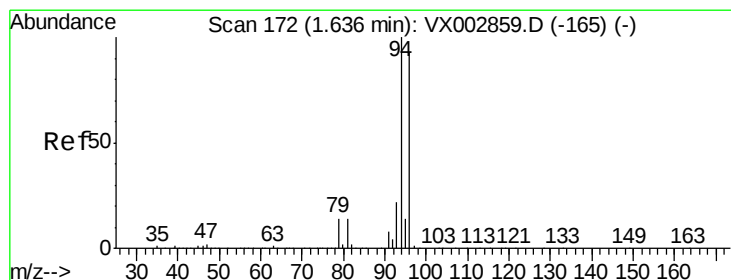
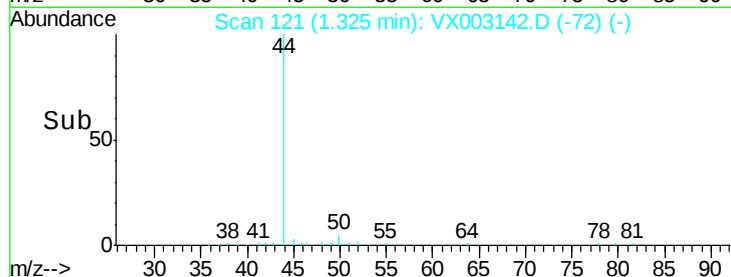
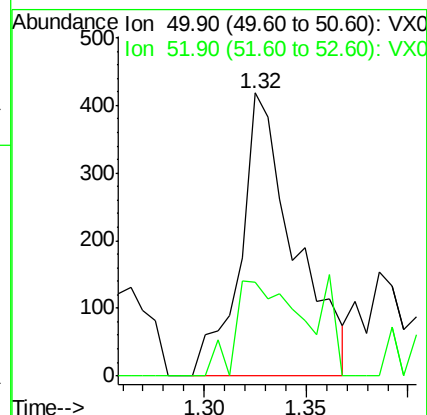
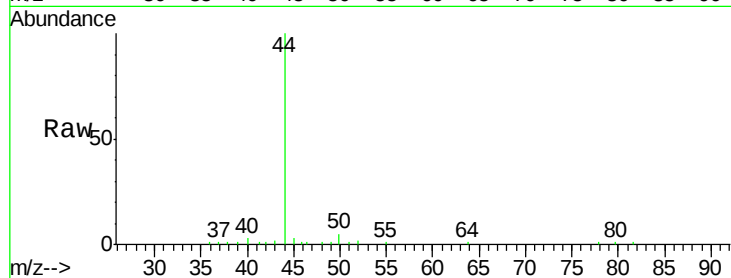
VX0703WBL01

Tot Ion: 50 Resp: 772

Ion Ratio Lower Upper

50 100

52 33.3 25.7 38.5



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003142.D

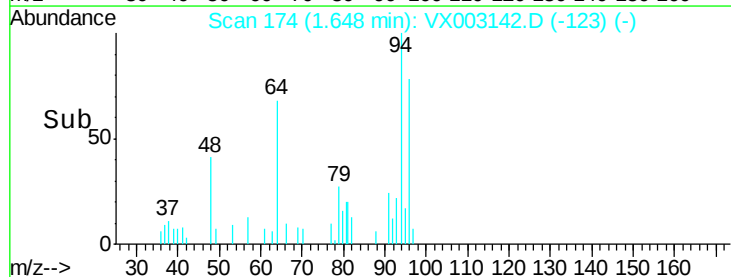
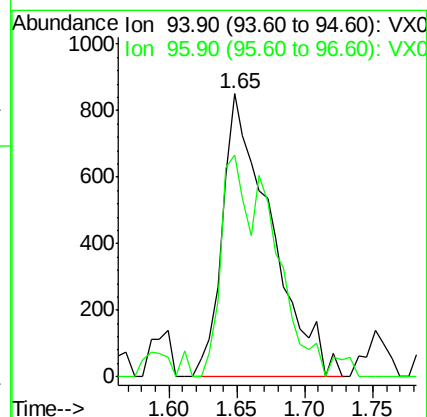
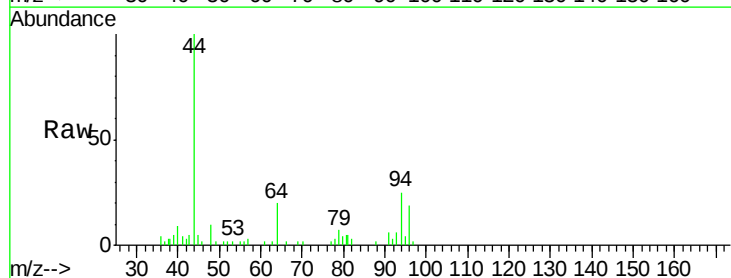
Acq: 03 Jul 2018 11:57

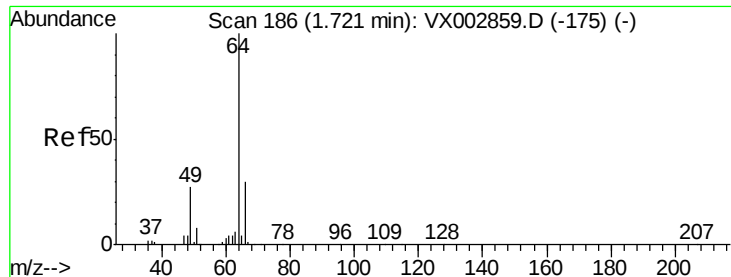
Tgt Ion: 94 Resp: 2108

Ion Ratio Lower Upper

94 100

96 78.3 74.9 112.3





#6

Chloroethane

Concen: Below Cal

RT: 1.74 min Scan# 189

Delta R.T. 0.02 min

Lab File: VX003142.D

Acq: 03 Jul 2018 11:57

Instrument :

MSVOA_X

ClientSampled :

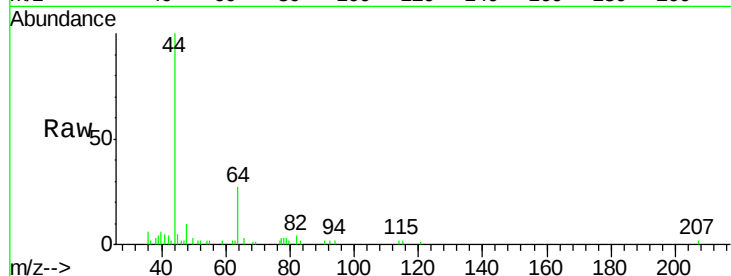
VX0703WBL01

Tot Ion: 64 Resp: 412

Ion Ratio Lower Upper

64 100

66 2.4 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

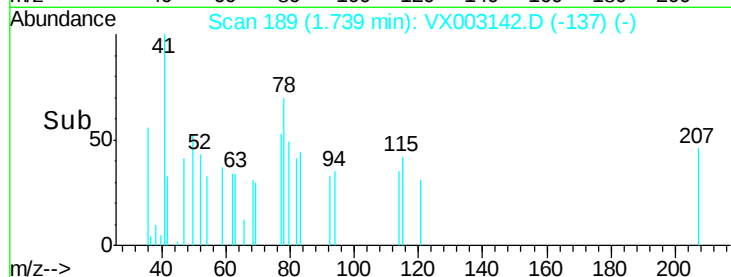
Ion 65.90 (65.60 to 66.60): VX0

1.74

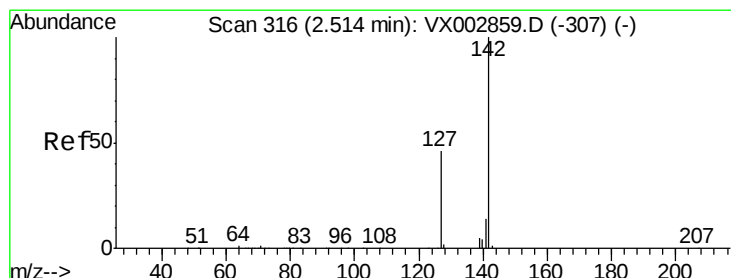
1.72

1.74

1.76



Time-->



#10

Methyl Iodide

Concen: 7.09 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003142.D

Acq: 03 Jul 2018 11:57

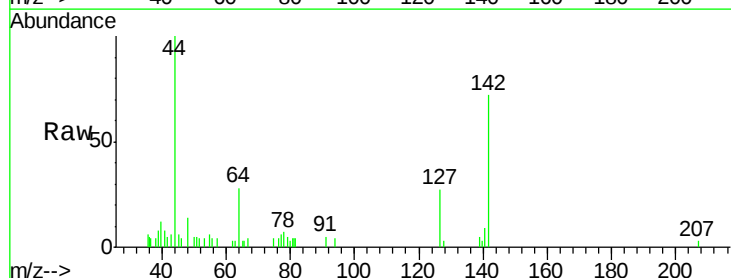
Tgt Ion: 142 Resp: 2860

Ion Ratio Lower Upper

142 100

127 43.0 36.6 55.0

141 15.4 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

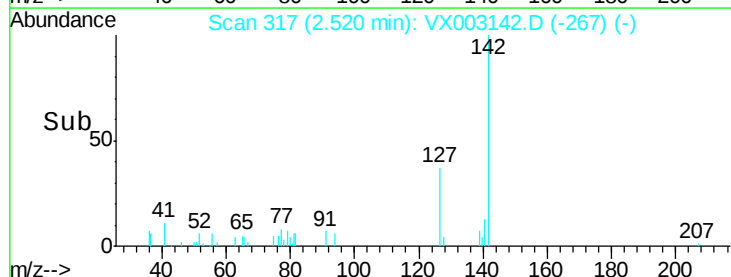
2.52

2.45

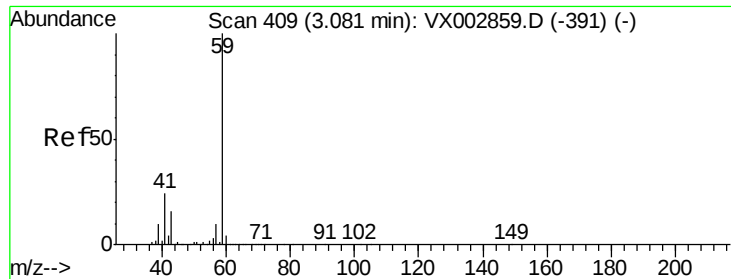
2.50

2.55

2.60



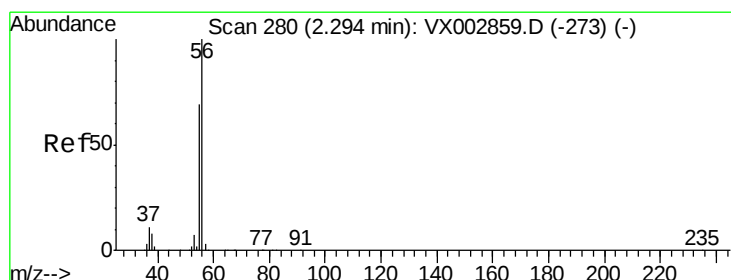
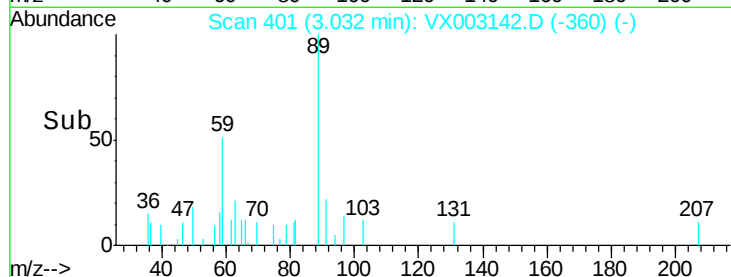
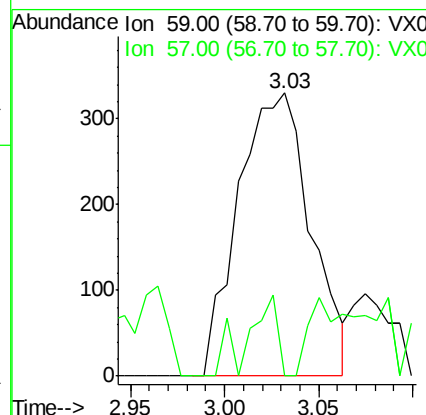
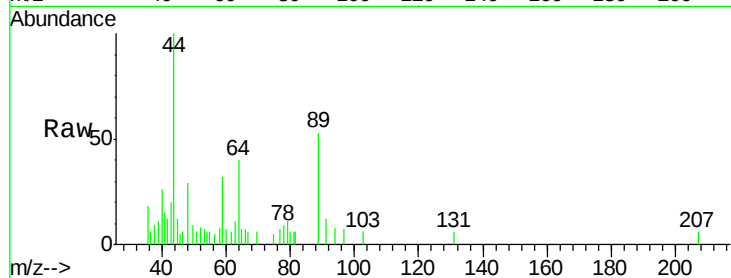
Time-->



#11
Tert butyl alcohol
Concen: 1.23 ug/l
RT: 3.03 min Scan# 401
Delta R.T. -0.05 min
Lab File: VX003142.D
Acq: 03 Jul 2018 11:57

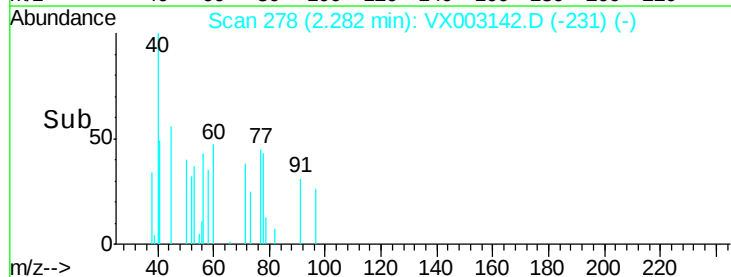
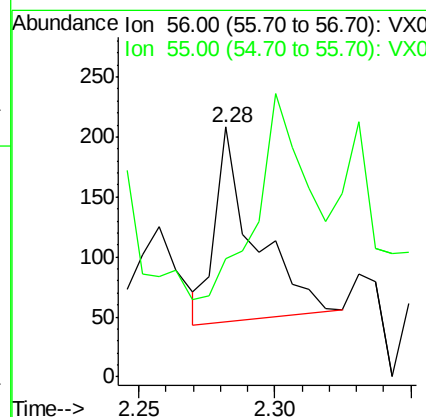
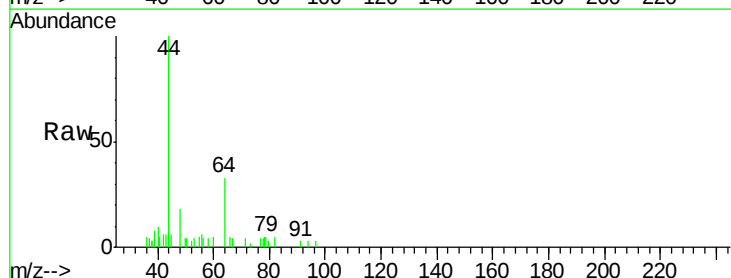
Instrument :
MSVOA_X
ClientSampleId :
VX0703WBL01

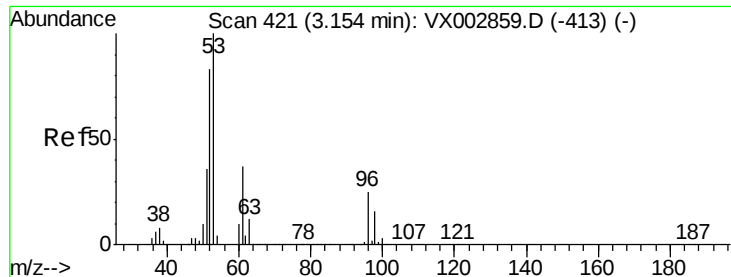
Tot Ion: 59 Resp: 877
Ion Ratio Lower Upper
59 100
57 9.0 8.2 12.2



#13
Acrolein
Concen: 4.63 ug/l
RT: 2.28 min Scan# 278
Delta R.T. -0.01 min
Lab File: VX003142.D
Acq: 03 Jul 2018 11:57

Tgt Ion: 56 Resp: 163
Ion Ratio Lower Upper
56 100
55 133.1 57.0 85.4#





#15

Acrylonitrile

Concen: 0.40 ug/l

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX003142.D

Acq: 03 Jul 2018 11:57

Instrument :

MSVOA_X

ClientSampled :

VX0703WBL01

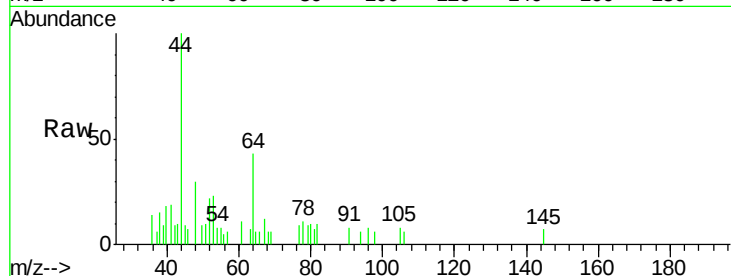
Tot Ion: 53 Resp: 604

Ion Ratio Lower Upper

53 100

52 91.1 66.7 100.1

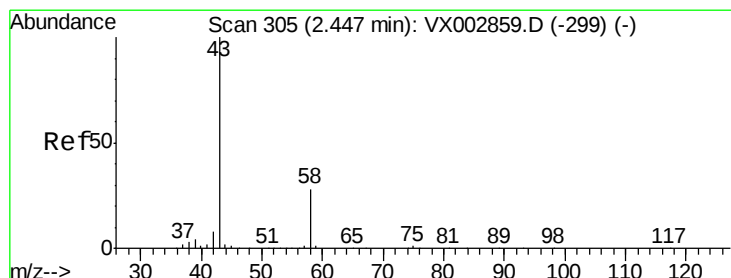
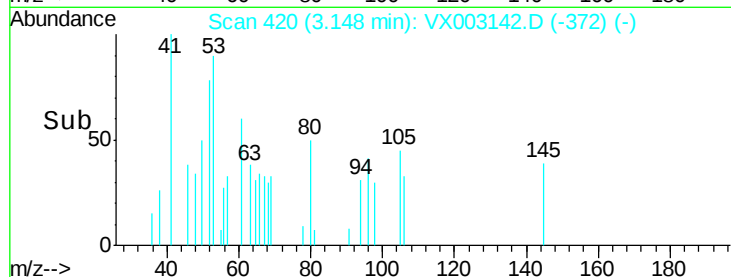
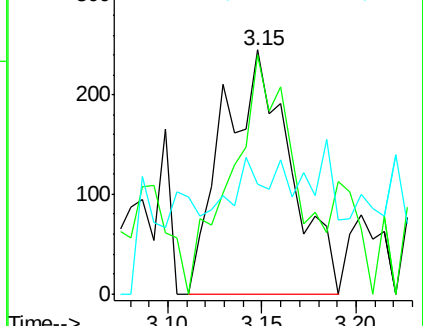
51 10.4 29.9 44.9#



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: 0.48 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003142.D

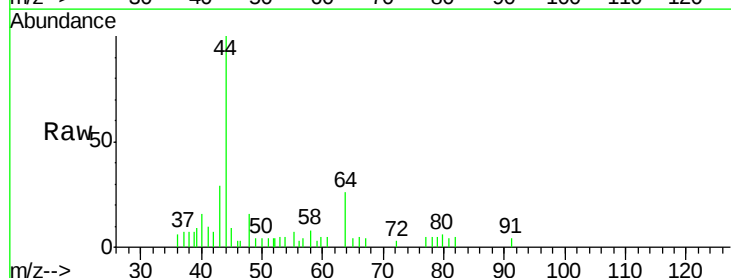
Acq: 03 Jul 2018 11:57

Tgt Ion: 43 Resp: 706

Ion Ratio Lower Upper

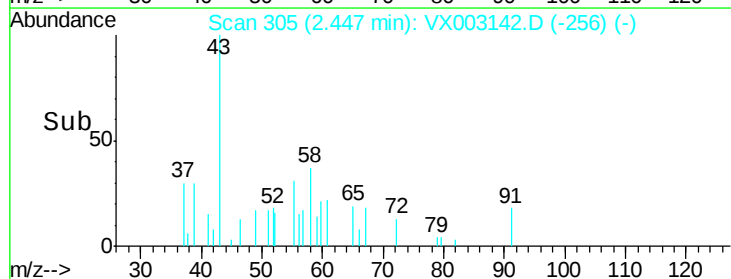
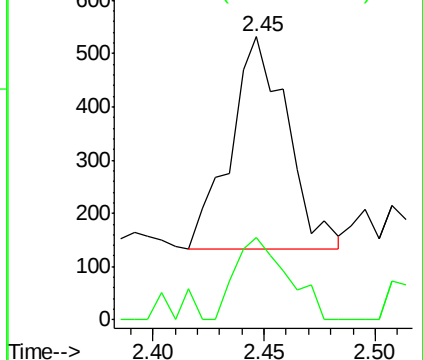
43 100

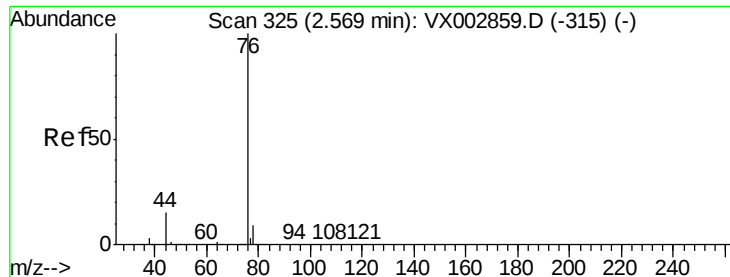
58 38.7 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

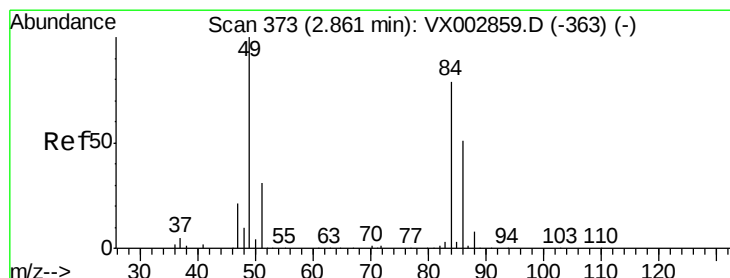
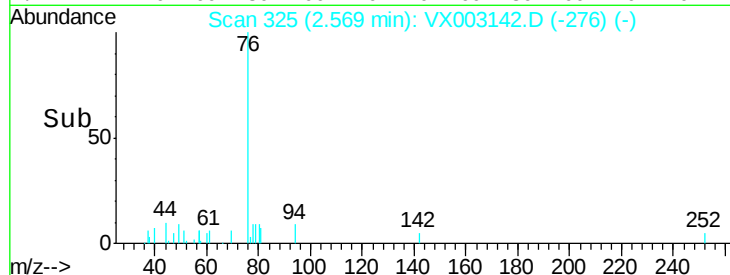
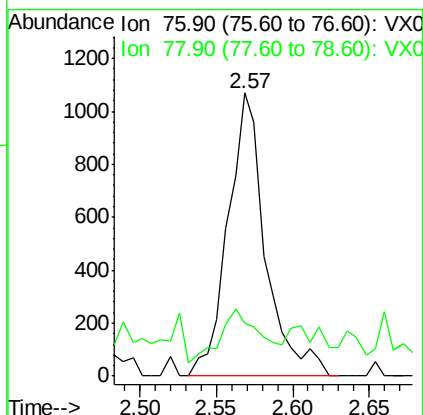
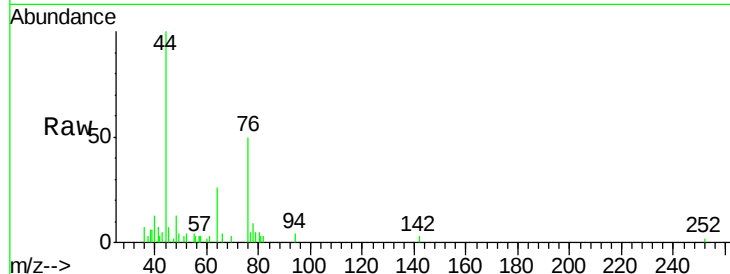




#17
Carbon Disulfide
Concen: 0.27 ug/l
RT: 2.57 min Scan# 325
Delta R.T. 0.00 min
Lab File: VX003142.D
Acq: 03 Jul 2018 11:57

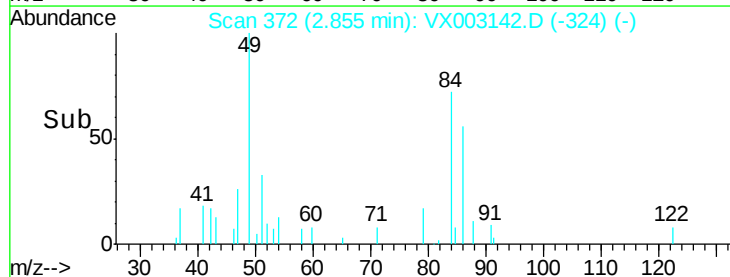
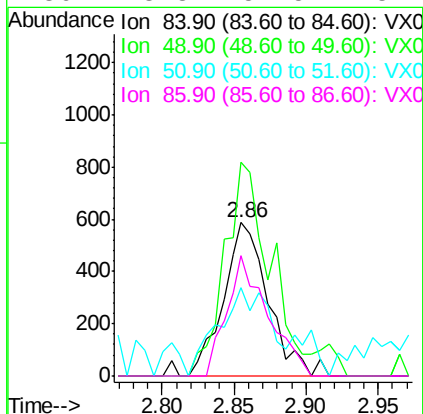
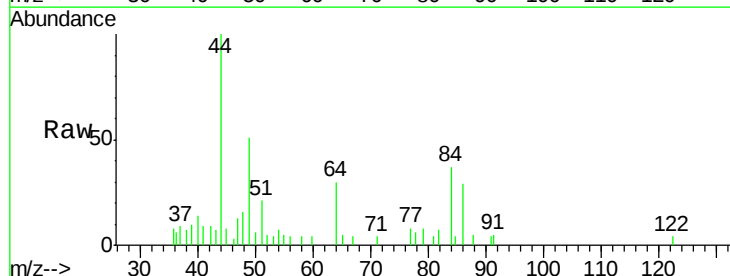
Instrument :
MSVOA_X
ClientSampleId :
VX0703WBL01

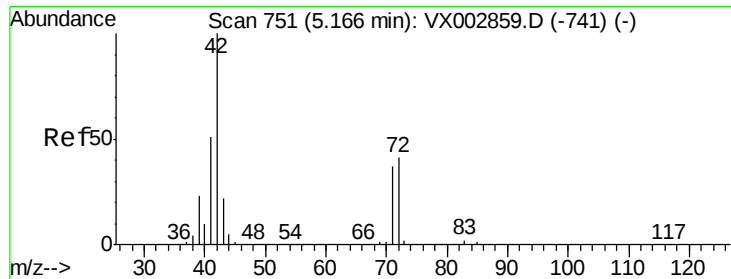
Tot Ion: 76 Resp: 1824
Ion Ratio Lower Upper
76 100
78 13.8 6.9 10.3#



#20
Methylene Chloride
Concen: 0.44 ug/l
RT: 2.86 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX003142.D
Acq: 03 Jul 2018 11:57

Tgt Ion: 84 Resp: 1273
Ion Ratio Lower Upper
84 100
49 139.6 107.8 161.6
51 57.8 32.8 49.2#
86 78.8 52.5 78.7#

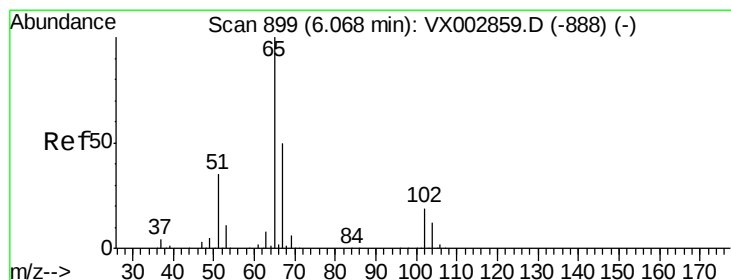
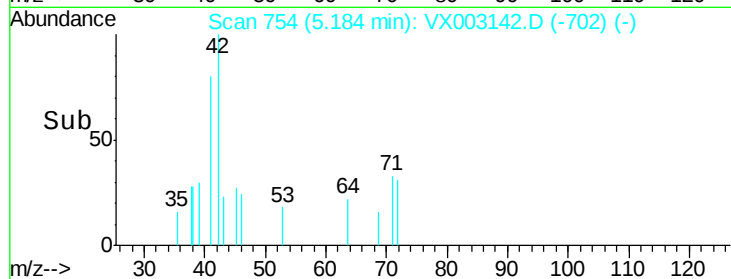
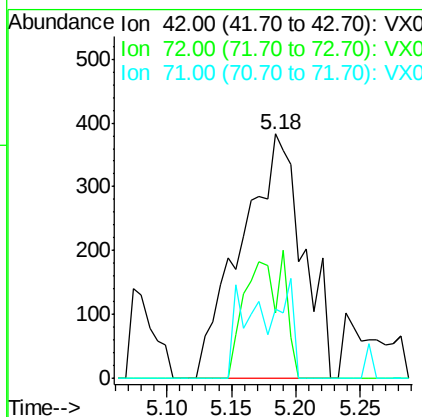
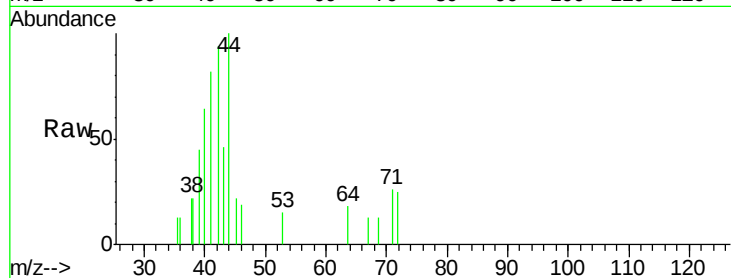




#29
Tetrahydrofuran
Concen: 0.90 ug/l
RT: 5.18 min Scan# 754
Delta R.T. 0.02 min
Lab File: VX003142.D
Acq: 03 Jul 2018 11:57

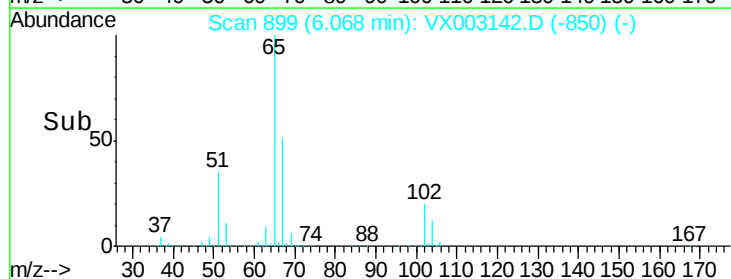
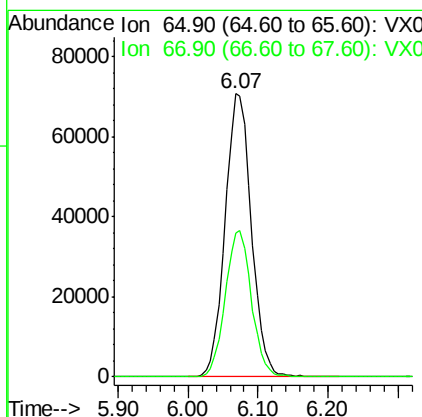
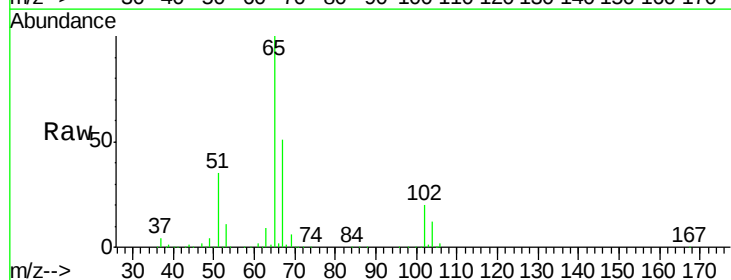
Instrument :
MSVOA_X
ClientSampled :
VX0703WBL01

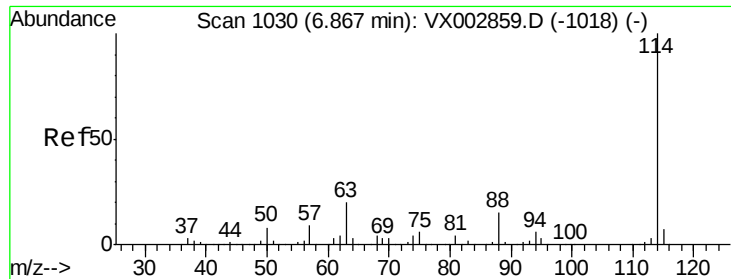
Tot Ion: 42 Resp: 1271
Ion Ratio Lower Upper
42 100
72 30.9 32.0 48.0#
71 10.5 30.1 45.1#



#33
1,2-Dichloroethane-d4
Concen: 51.55 ug/l
RT: 6.07 min Scan# 899
Delta R.T. 0.00 min
Lab File: VX003142.D
Acq: 03 Jul 2018 11:57

Tgt Ion: 65 Resp: 184686
Ion Ratio Lower Upper
65 100
67 51.6 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: VX003142.D

Acq: 03 Jul 2018 11:57

Instrument :

MSVOA_X

ClientSampleId :

VX0703WBL01

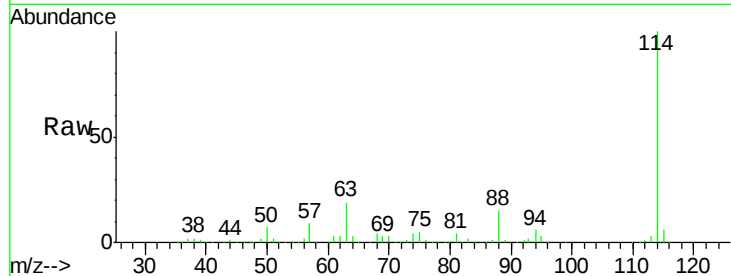
Tot Ion:114 Resp: 355724

Ion Ratio Lower Upper

114 100

63 19.1 0.0 41.4

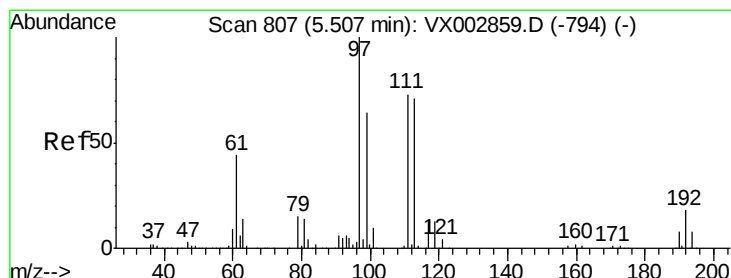
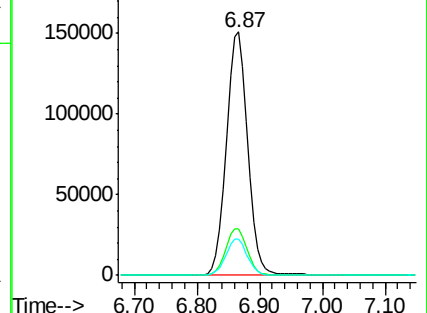
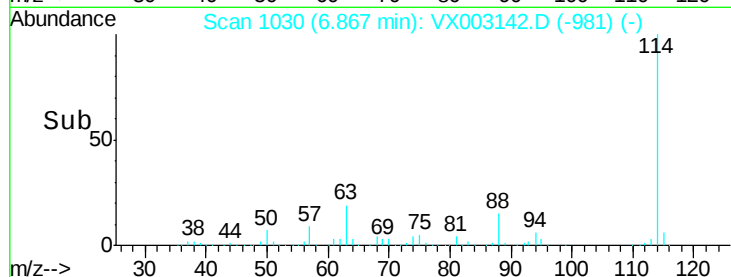
88 15.1 0.0 30.0



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: 54.46 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003142.D

Acq: 03 Jul 2018 11:57

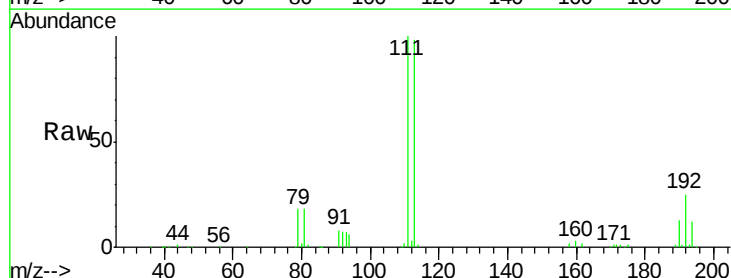
Tgt Ion:113 Resp: 153409

Ion Ratio Lower Upper

113 100

111 102.7 81.4 122.0

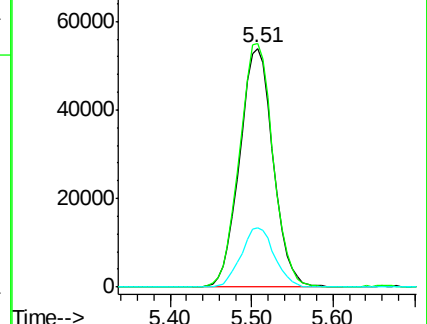
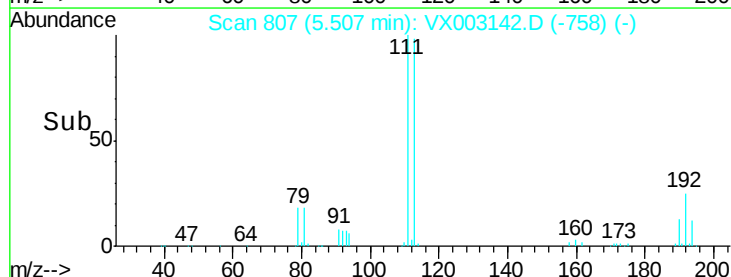
192 24.8 19.1 28.7

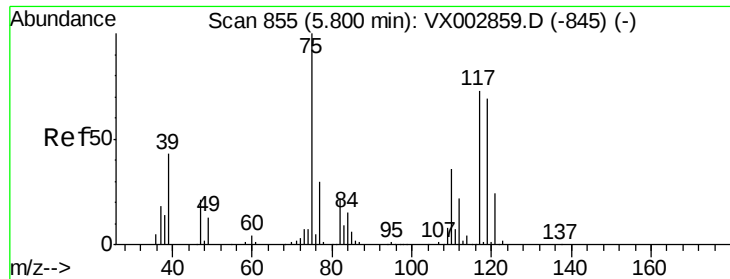


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

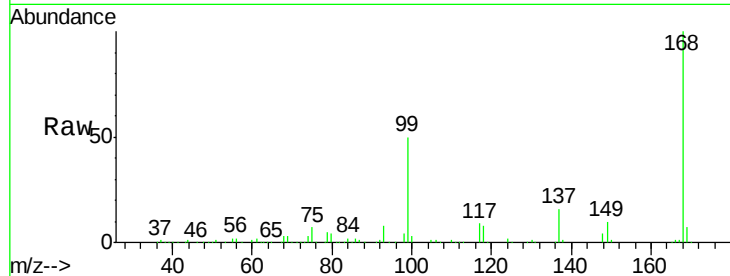




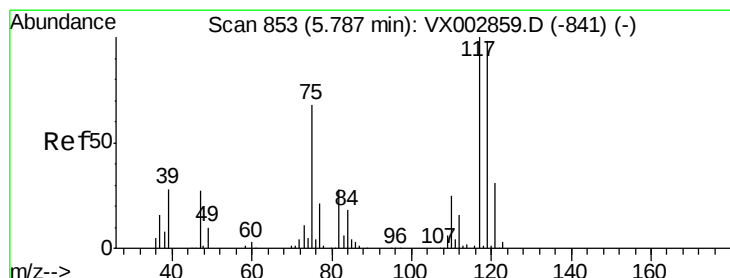
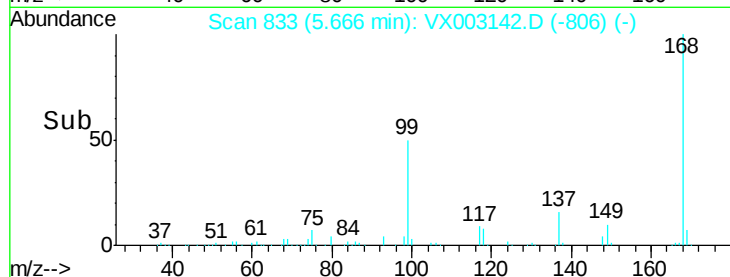
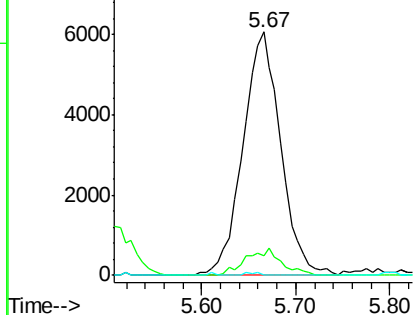
#36
 1,1-Dichloropropene
 Concen: 4.36 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003142.D
 Acq: 03 Jul 2018 11:57

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0703WBL01

Tot Ion: 75 Resp: 17014
 Ion Ratio Lower Upper
 75 100
 110 10.4 18.1 54.4#
 77 0.0 24.3 36.5#

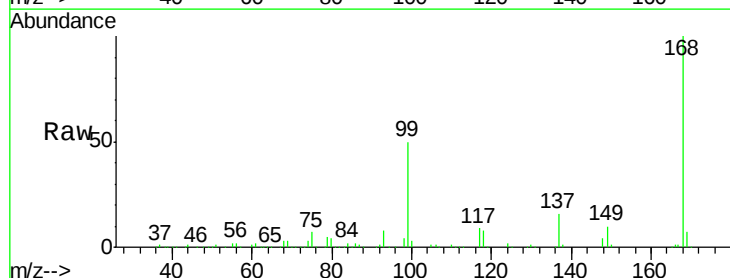


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

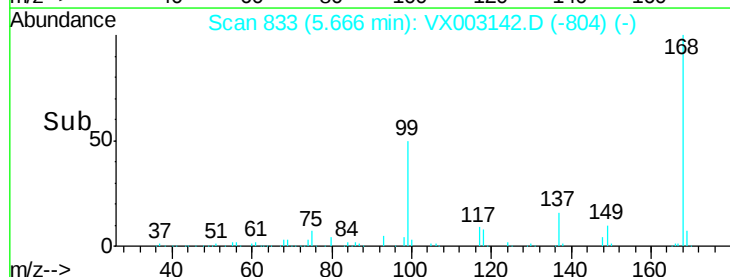
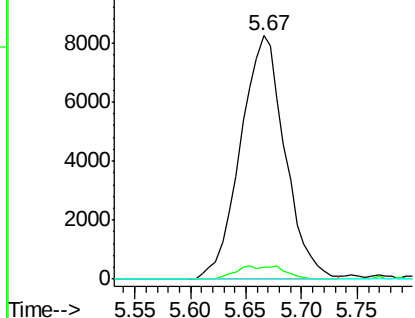


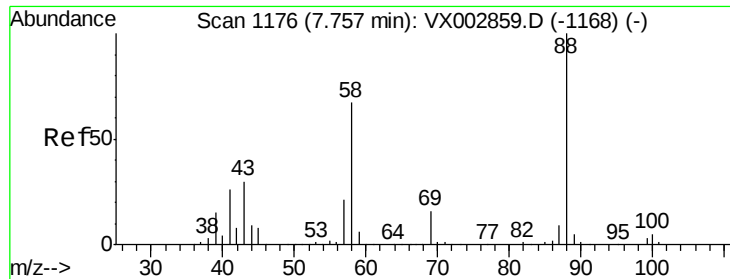
#38
 Carbon Tetrachloride
 Concen: 5.34 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX003142.D
 Acq: 03 Jul 2018 11:57

Tgt Ion: 117 Resp: 22879
 Ion Ratio Lower Upper
 117 100
 119 4.6 77.4 116.0#
 121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 0.62 ug/l

RT: 7.68 min Scan# 1164

Delta R.T. -0.07 min

Lab File: VX003142.D

Acq: 03 Jul 2018 11:57

Instrument :

MSVOA_X

ClientSampleId :

VX0703WBL01

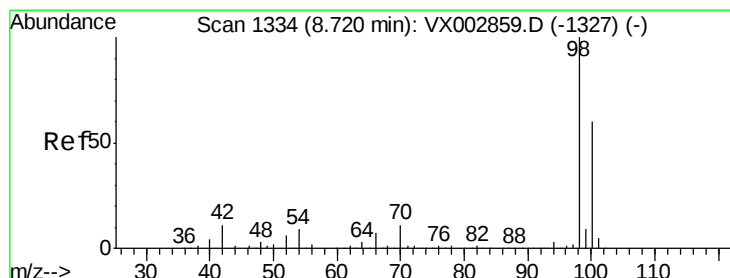
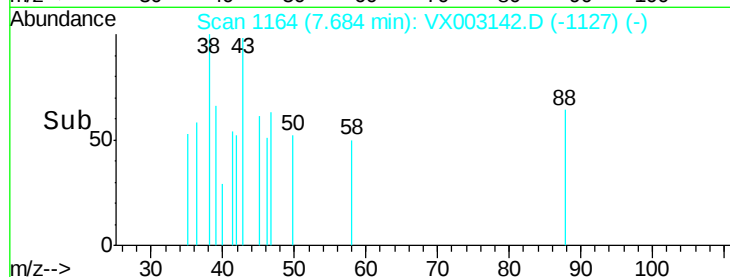
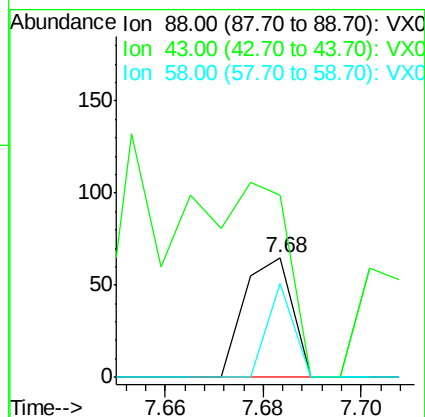
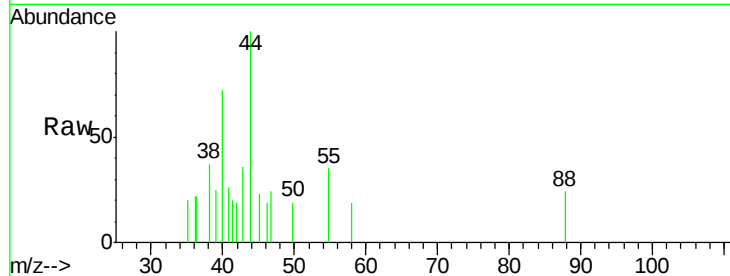
Tot Ion: 88 Resp: 44

Ion Ratio Lower Upper

88 100

43 0.0 29.8 44.6#

58 43.2 57.1 85.7#



#50

Toluene-d8

Concen: 54.02 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003142.D

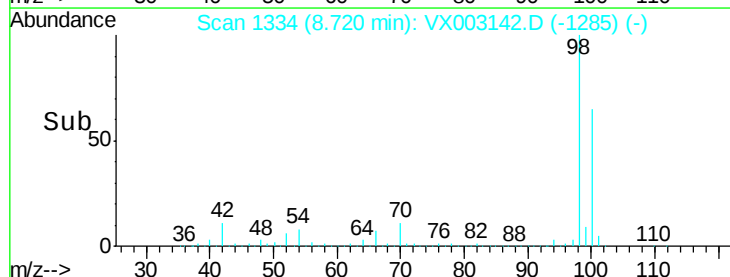
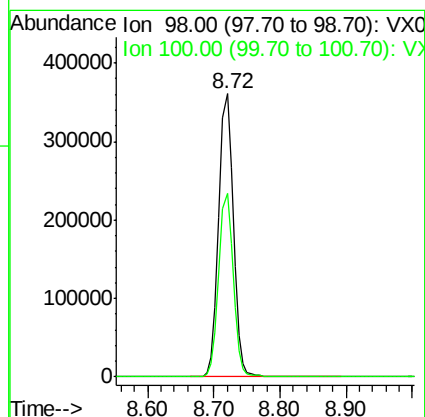
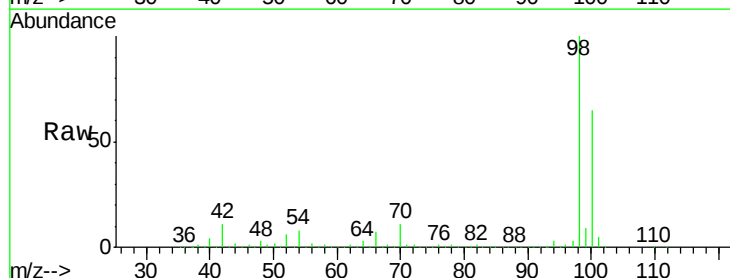
Acq: 03 Jul 2018 11:57

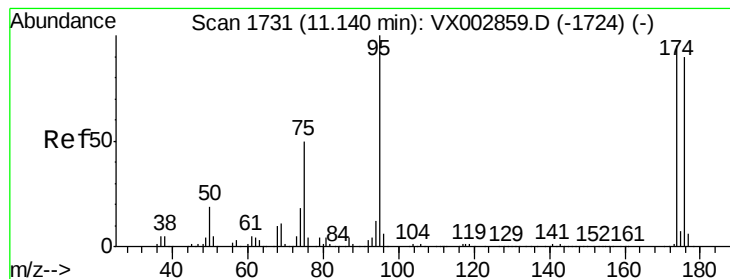
Tgt Ion: 98 Resp: 555712

Ion Ratio Lower Upper

98 100

100 64.1 50.9 76.3





#62

4-Bromofluorobenzene

Concen: 48.29 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003142.D

Acq: 03 Jul 2018 11:57

Instrument :

MSVOA_X

ClientSampleId :

VX0703WBL01

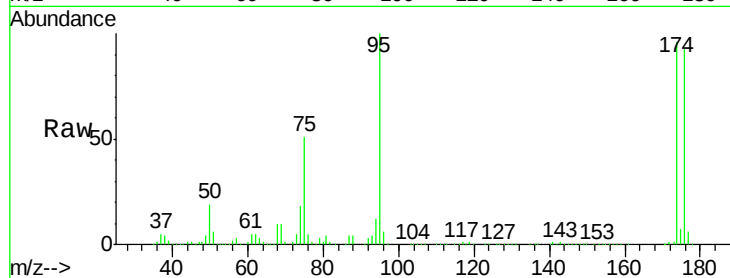
Tot Ion: 95 Resp: 191592

Ion Ratio Lower Upper

95 100

174 98.8 0.0 187.4

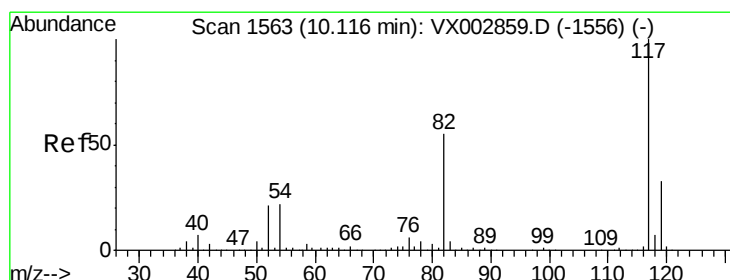
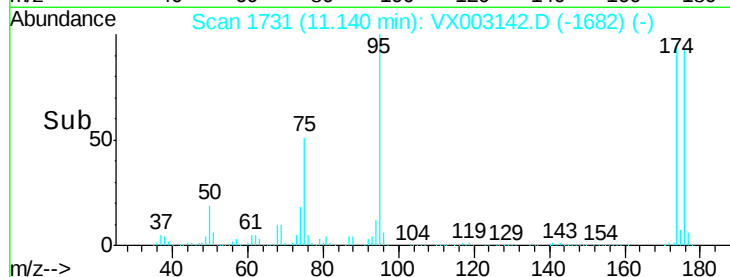
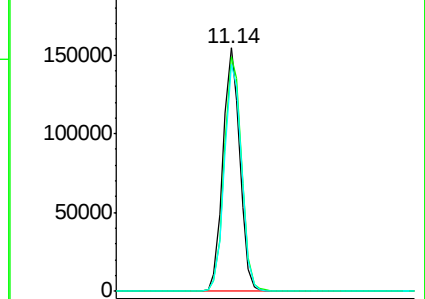
176 95.1 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002859.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX002859.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX002859.D (-1724) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003142.D

Acq: 03 Jul 2018 11:57

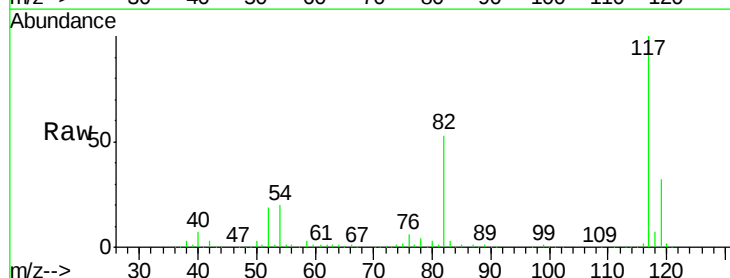
Tgt Ion: 117 Resp: 324964

Ion Ratio Lower Upper

117 100

82 53.3 45.0 67.4

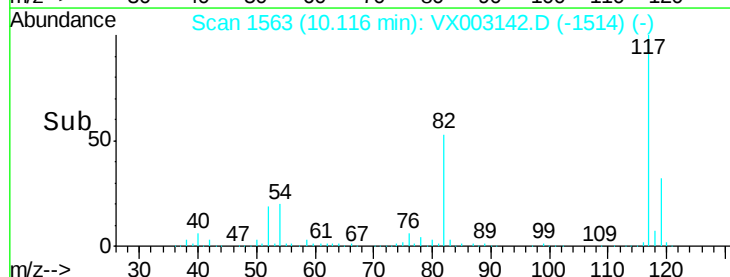
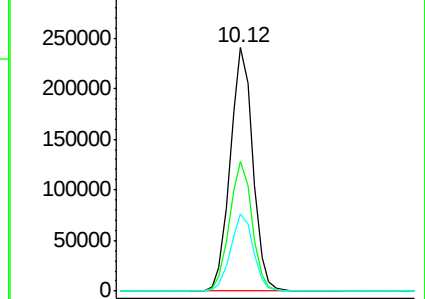
119 31.7 25.8 38.6

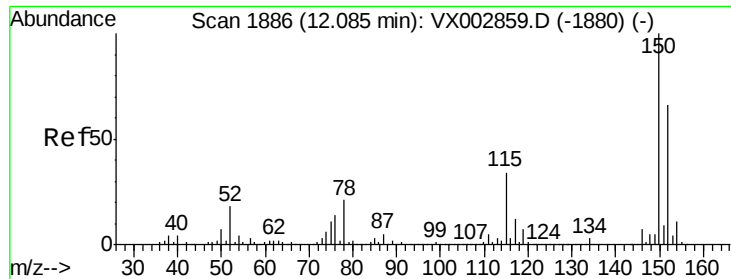


Abundance Ion 116.90 (116.60 to 117.60): VX002859.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX002859.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX002859.D (-1556) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX003142.D

Acq: 03 Jul 2018 11:57

Instrument :

MSVOA_X

ClientSampleId :

VX0703WBL01

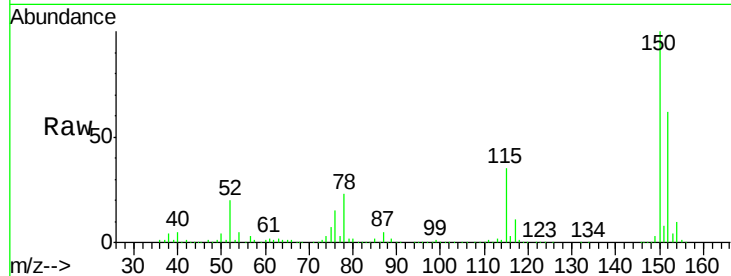
Tot Ion:152 Resp: 176579

Ion Ratio Lower Upper

152 100

115 54.3 40.1 120.2

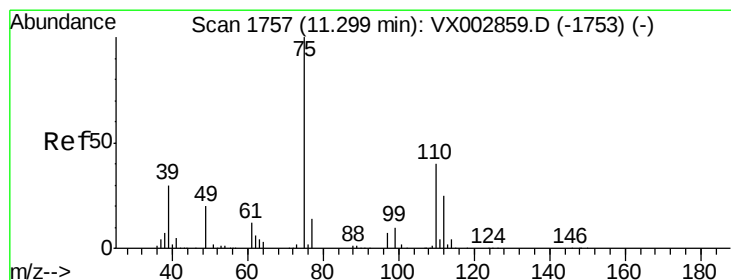
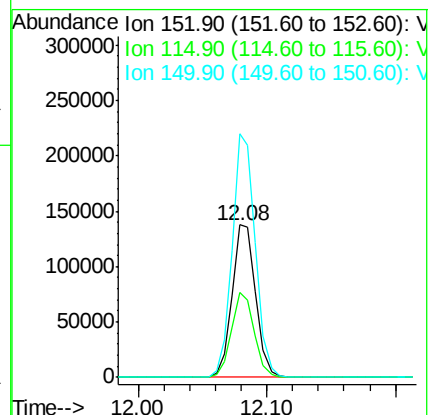
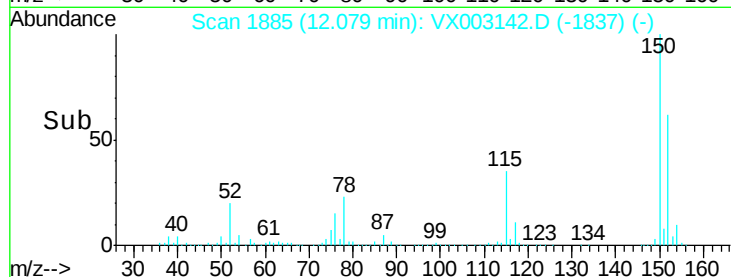
150 157.0 0.0 347.2



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: 30.28 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003142.D

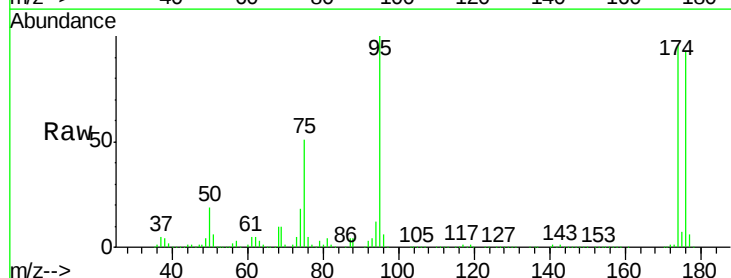
Acq: 03 Jul 2018 11:57

Tgt Ion: 75 Resp: 96855

Ion Ratio Lower Upper

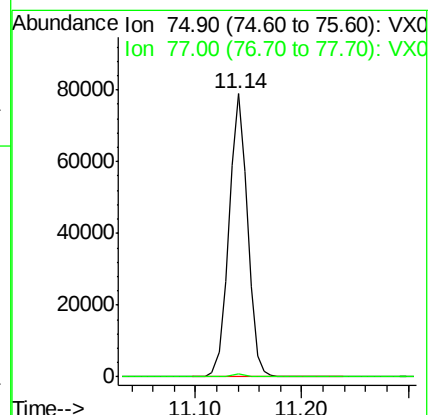
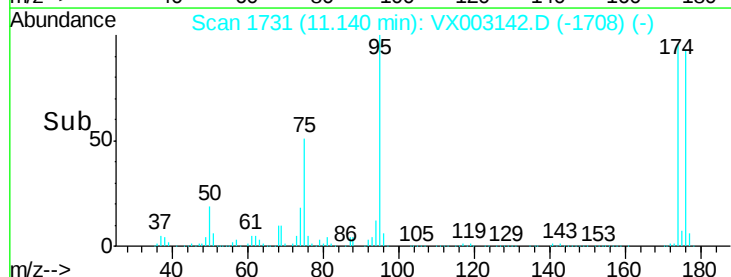
75 100

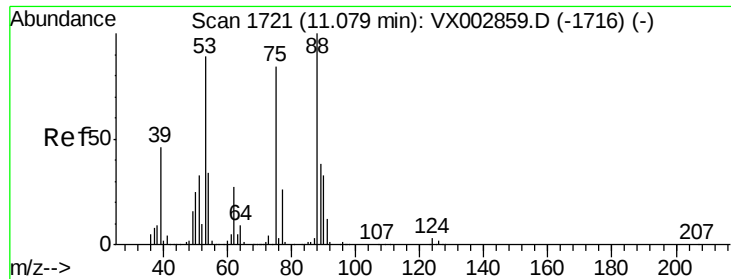
77 1.2 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 85.31 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003142.D

Acq: 03 Jul 2018 11:57

Instrument :

MSVOA_X

ClientSampleId :

VX0703WBL01

Tot Ion: 75 Resp: 96855

Ion Ratio Lower Upper

75 100

53 0.4 86.8 130.2#

89 0.0 38.2 57.2#

