

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX070318\
 Data File : VX003148.D
 Acq On : 03 Jul 2018 14:58
 Operator : JC/MD
 Sample : J3754-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S10-EB-2018-1

Quant Time: Jul 04 03:14:57 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	267837	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	367683	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	337800	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	187720	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	168869	45.62	ug/l	0.00
Spiked Amount			Recovery	=	91.24%	
35) Dibromofluoromethane	5.51	113	140530	48.26	ug/l	0.00
Spiked Amount			Recovery	=	96.52%	
50) Toluene-d8	8.72	98	507455	47.73	ug/l	0.00
Spiked Amount			Recovery	=	95.46%	
62) 4-Bromofluorobenzene	11.14	95	177055	43.18	ug/l	0.00
Spiked Amount			Recovery	=	86.36%	

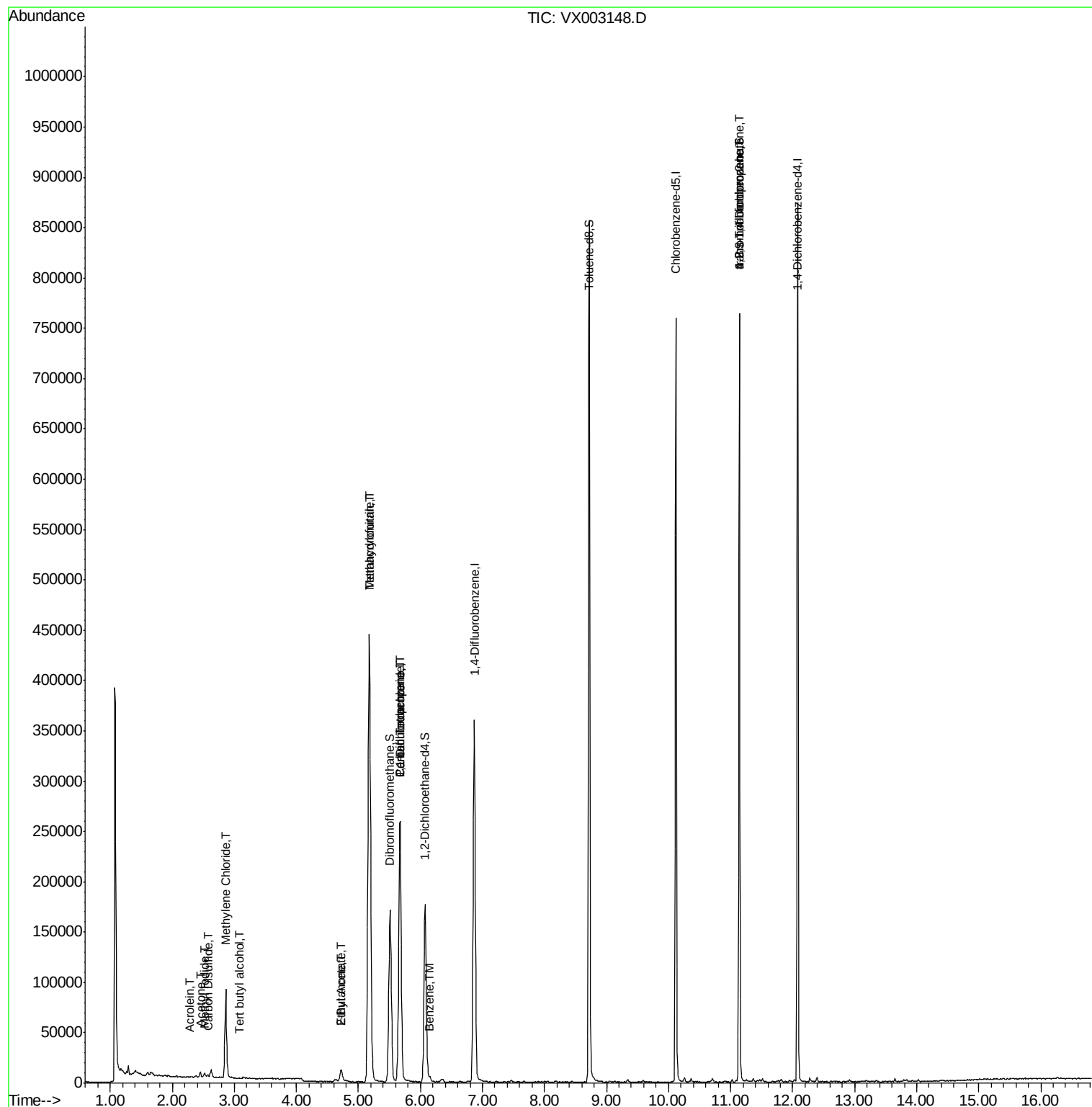
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	274	Below Cal		86
3) Chloromethane	1.32	50	1107	Below Cal	#	87
5) Bromomethane	1.65	94	2505	Below Cal		86
6) Chloroethane	1.73	64	623	Below Cal	#	43
10) Methyl Iodide	2.52	142	4353	7.50	ug/l	# 93
11) Tert butyl alcohol	3.08	59	476	0.65	ug/l	# 52
13) Acrolein	2.28	56	105	4.48	ug/l	# 48
16) Acetone	2.45	43	6040	3.94	ug/l	93
17) Carbon Disulfide	2.57	76	2488	0.35	ug/l	97
20) Methylene Chloride	2.86	84	41402	13.88	ug/l	95
25) 2-Butanone	4.72	43	21725	9.55	ug/l	96
29) Tetrahydrofuran	5.17	42	409020	280.32	ug/l	97
36) 1,1-Dichloropropene	5.67	75	17913	4.44	ug/l	# 51
37) Ethyl Acetate	4.72	43	21725	5.00	ug/l	# 70
38) Carbon Tetrachloride	5.67	117	23878	5.40	ug/l	# 16
40) Benzene	6.15	78	4664	0.40	ug/l	95
41) Methacrylonitrile	5.17	41	236621	94.65	ug/l	# 49
76) 1,2,3-Trichloropropane	11.14	75	90499	26.61	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	90499	75.39	ug/l	# 7

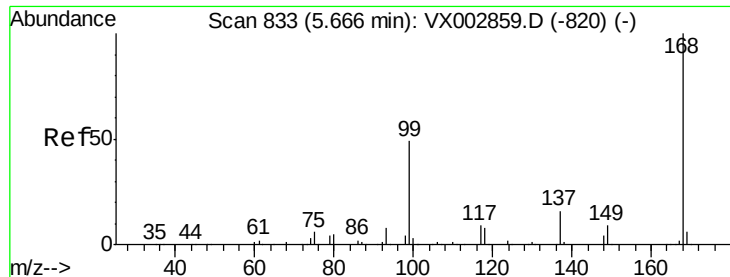
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003148.D

Acq: 03 Jul 2018 14:58

Instrument :

MSVOA_X

ClientSampled :

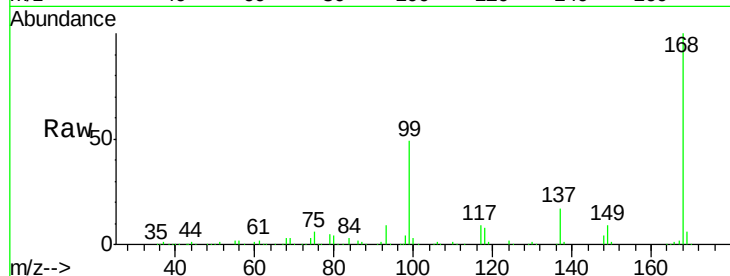
S10-EB-2018-1

Tot Ion:168 Resp: 267837

Ion Ratio Lower Upper

168 100

99 48.9 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

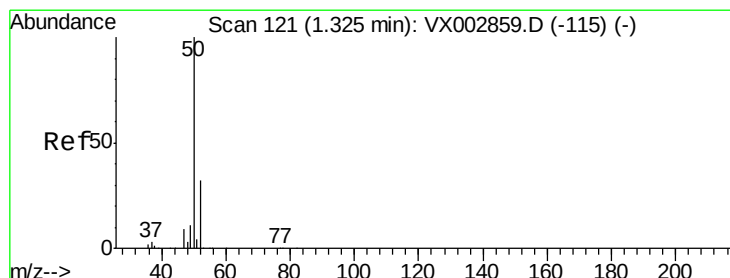
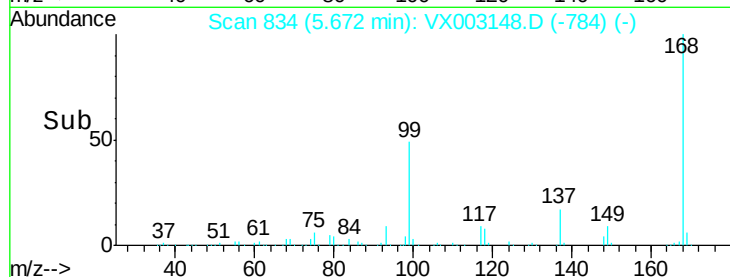
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003148.D

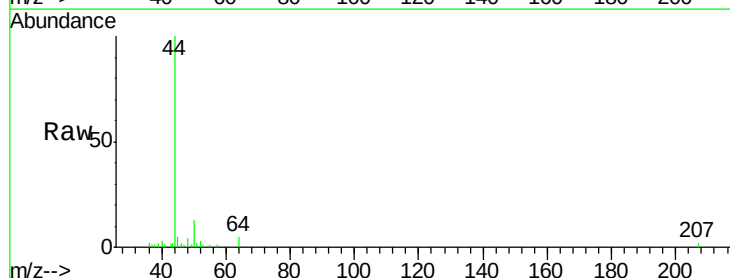
Acq: 03 Jul 2018 14:58

Tgt Ion: 50 Resp: 1107

Ion Ratio Lower Upper

50 100

52 24.7 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

600

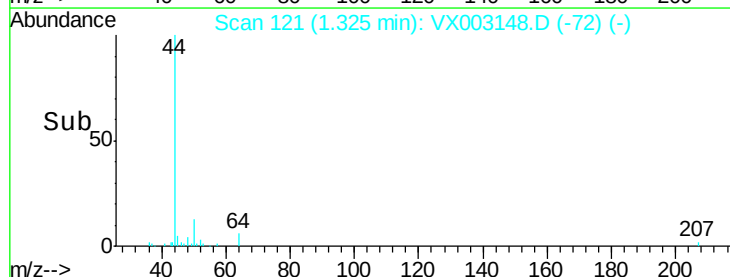
400

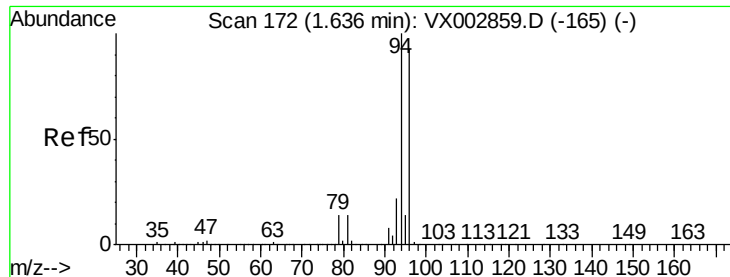
200

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003148.D

Acq: 03 Jul 2018 14:58

Instrument :

MSVOA_X

ClientSampleId :

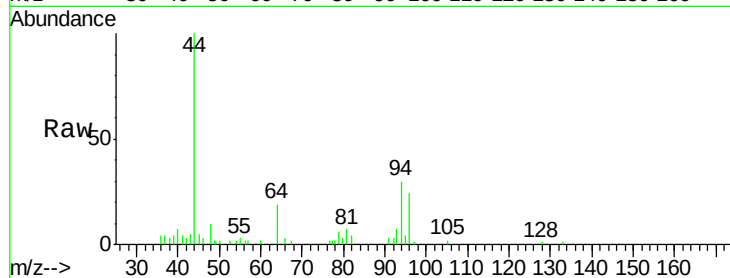
S10-EB-2018-1

Tot Ion: 94 Resp: 2505

Ion Ratio Lower Upper

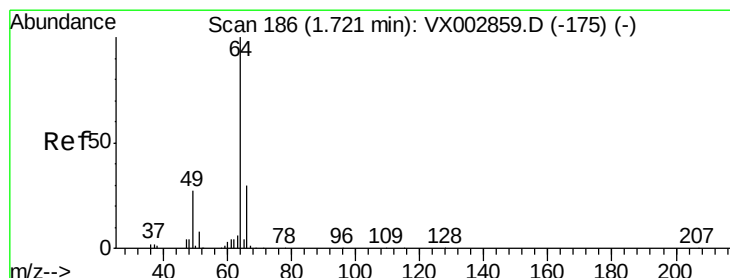
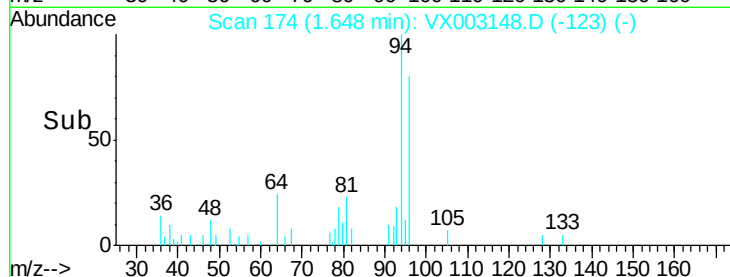
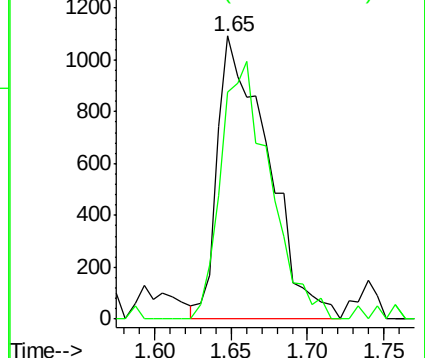
94 100

96 80.4 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: Below Cal

RT: 1.73 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX003148.D

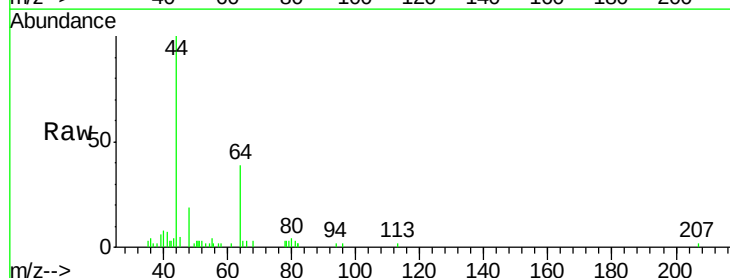
Acq: 03 Jul 2018 14:58

Tgt Ion: 64 Resp: 623

Ion Ratio Lower Upper

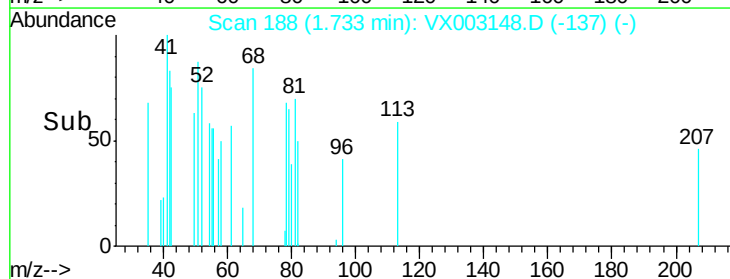
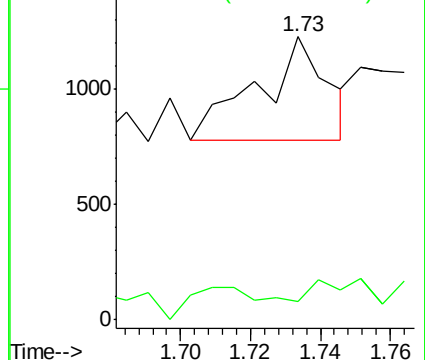
64 100

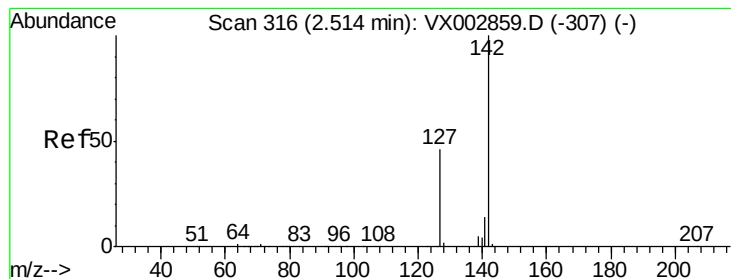
66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#10

Methvl Iodide

Concen: 7.50 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003148.D

Acq: 03 Jul 2018 14:58

Instrument :

MSVOA_X

ClientSampled :

S10-EB-2018-1

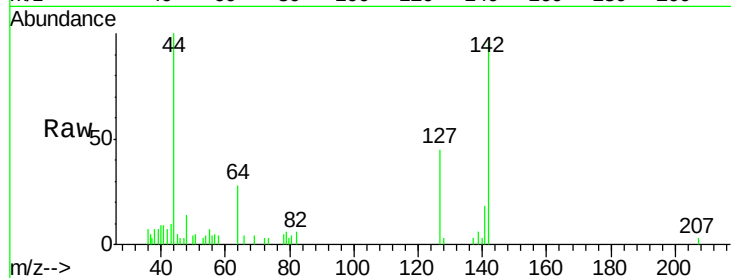
Tot Ion:142 Resp: 4353

Ion Ratio Lower Upper

142 100

127 49.7 36.6 55.0

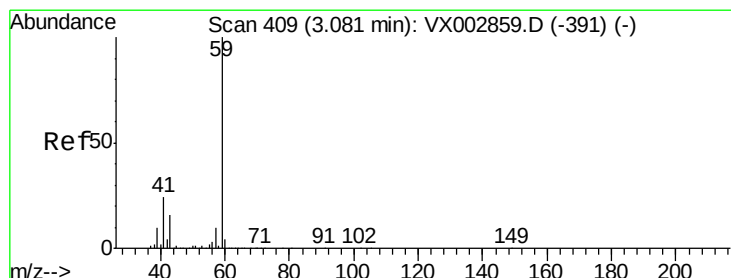
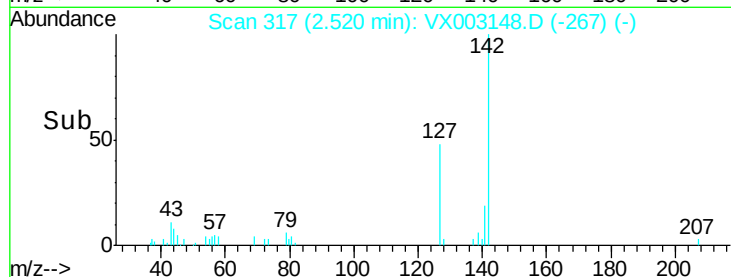
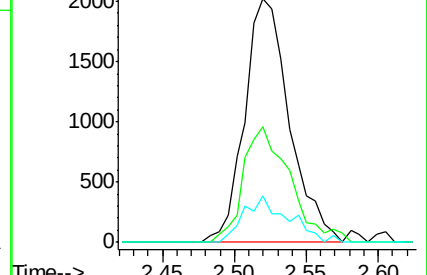
141 18.8 11.3 16.9#



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: 0.65 ug/l

RT: 3.08 min Scan# 409

Delta R.T. 0.00 min

Lab File: VX003148.D

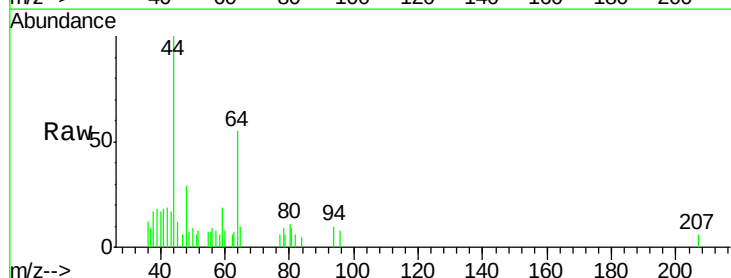
Acq: 03 Jul 2018 14:58

Tgt Ion: 59 Resp: 476

Ion Ratio Lower Upper

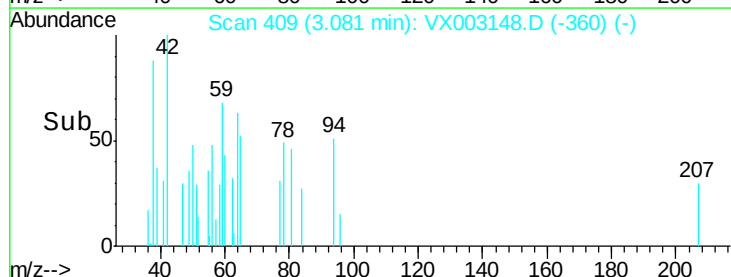
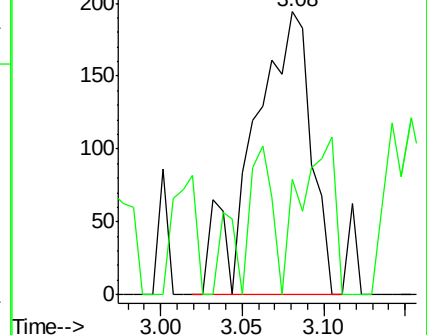
59 100

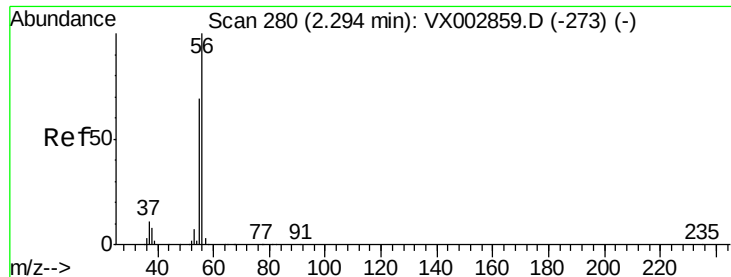
57 27.9 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 4.48 ug/l

RT: 2.28 min Scan# 277

Delta R.T. -0.02 min

Lab File: VX003148.D

Acq: 03 Jul 2018 14:58

Instrument :

MSVOA_X

ClientSampleId :

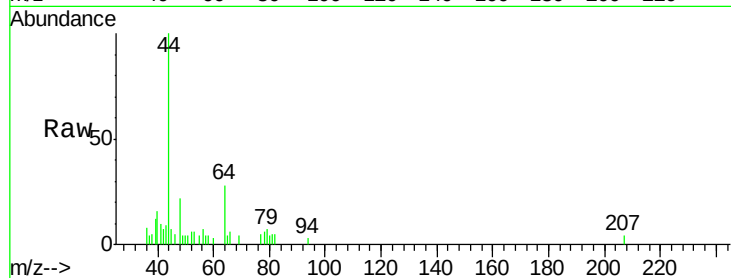
S10-EB-2018-1

Tot Ion: 56 Resp: 105

Ion Ratio Lower Upper

56 100

55 114.3 57.0 85.4#



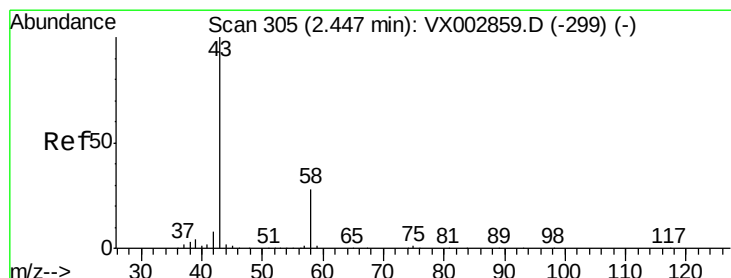
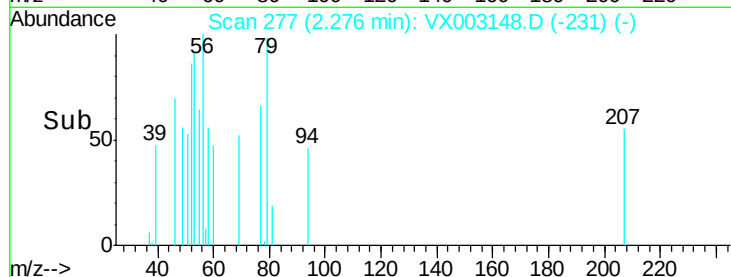
Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.28

2.27 2.28 2.29

Time-->



#16

Acetone

Concen: 3.94 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX003148.D

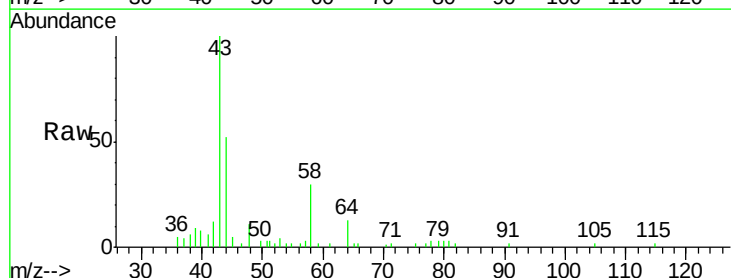
Acq: 03 Jul 2018 14:58

Tgt Ion: 43 Resp: 6040

Ion Ratio Lower Upper

43 100

58 31.0 22.1 33.1



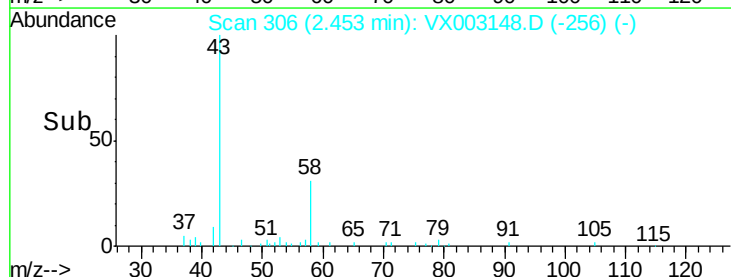
Abundance Ion 43.00 (42.70 to 43.70): VX0

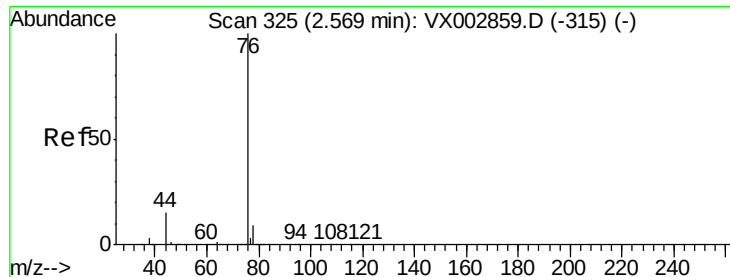
Ion 58.00 (57.70 to 58.70): VX0

2.45

2.40 2.45 2.50

Time-->





#17

Carbon Disulfide

Concen: 0.35 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX003148.D

Acq: 03 Jul 2018 14:58

Instrument :

MSVOA_X

ClientSampleId :

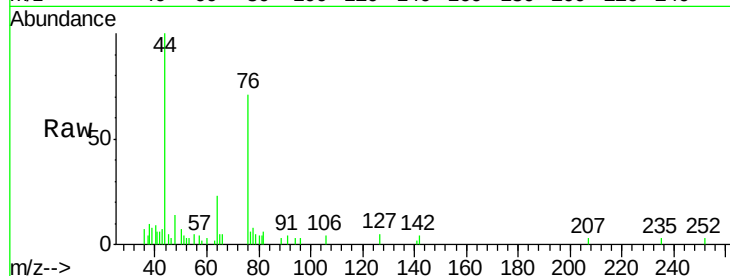
S10-EB-2018-1

Tot Ion: 76 Resp: 2488

Ion Ratio Lower Upper

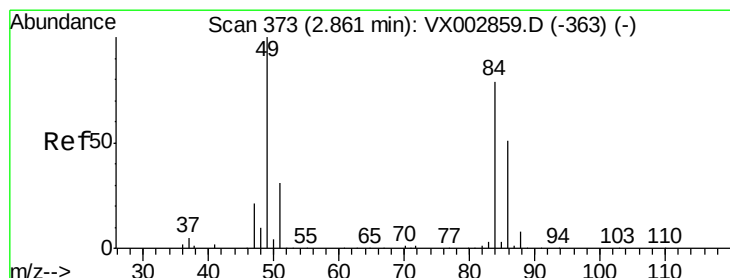
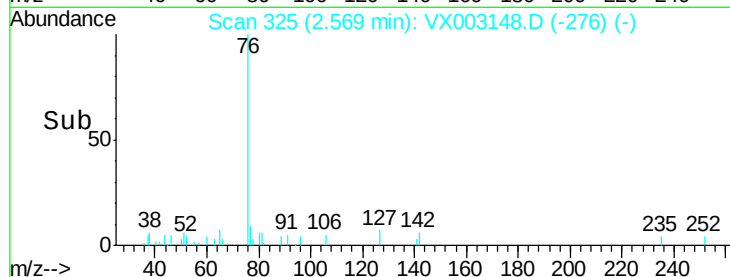
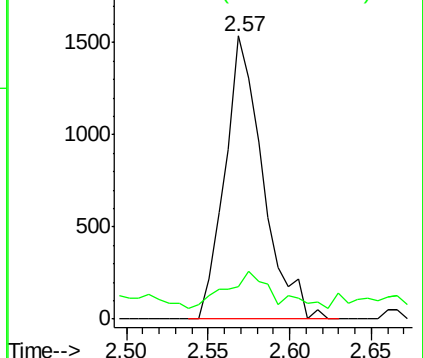
76 100

78 7.6 6.9 10.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 13.88 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX003148.D

Acq: 03 Jul 2018 14:58

Tgt Ion: 84 Resp: 41402

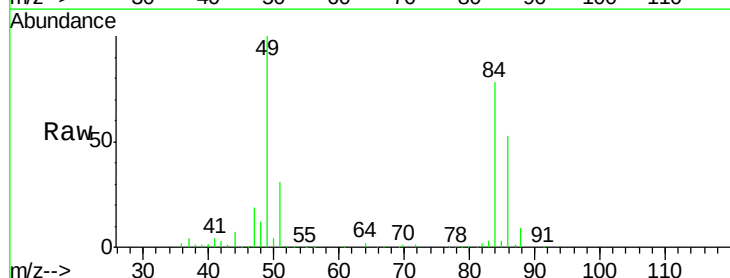
Ion Ratio Lower Upper

84 100

49 127.2 107.8 161.6

51 39.0 32.8 49.2

86 67.2 52.5 78.7

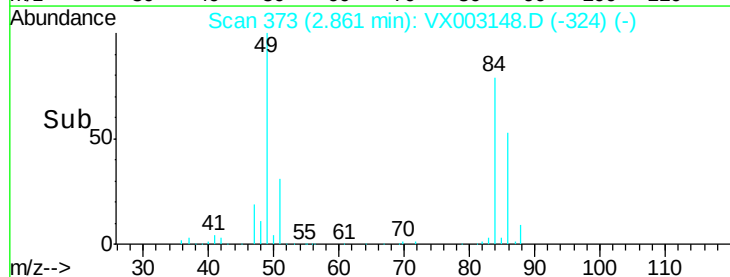
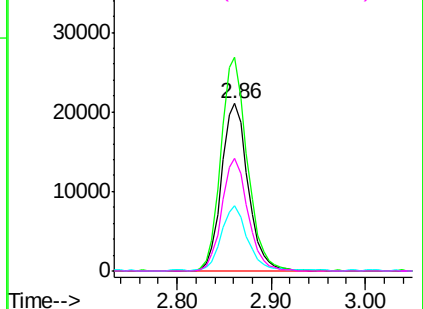


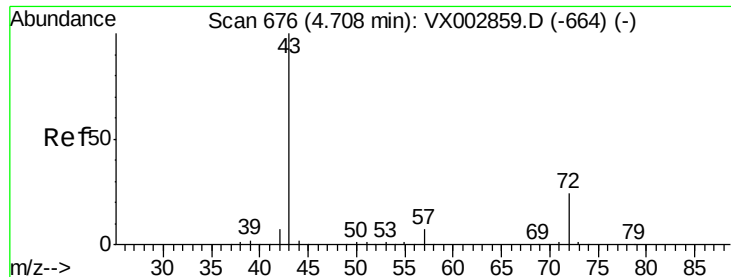
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 9.55 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX003148.D

Acq: 03 Jul 2018 14:58

Instrument :

MSVOA_X

ClientSampleId :

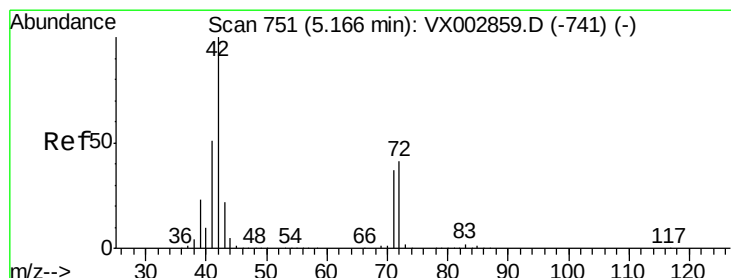
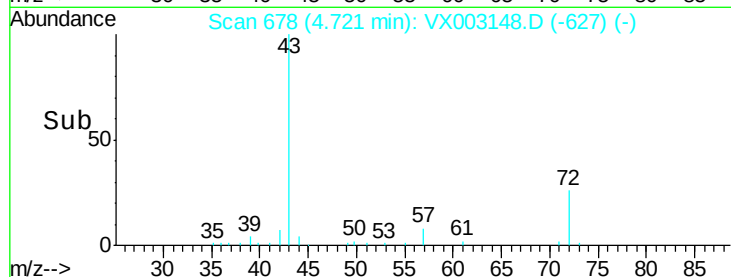
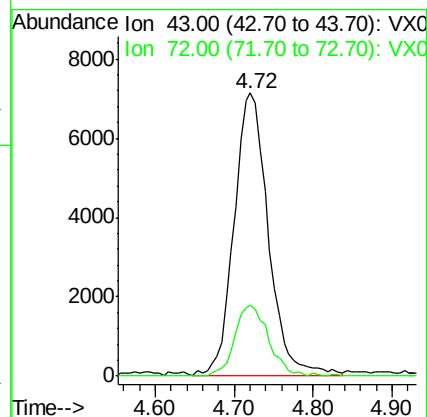
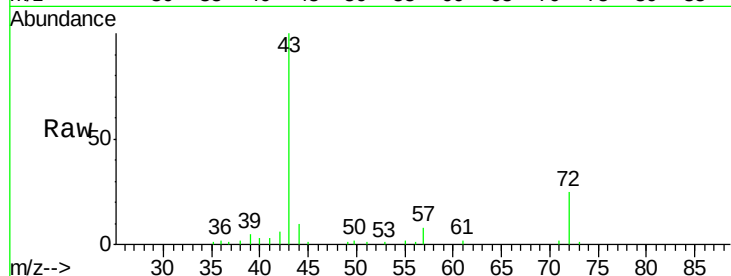
S10-EB-2018-1

Tot Ion: 43 Resp: 21725

Ion Ratio Lower Upper

43 100

72 25.2 18.5 27.7



#29

Tetrahydrofuran

Concen: 280.32 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX003148.D

Acq: 03 Jul 2018 14:58

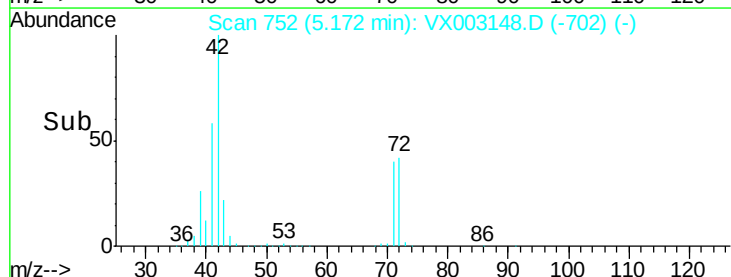
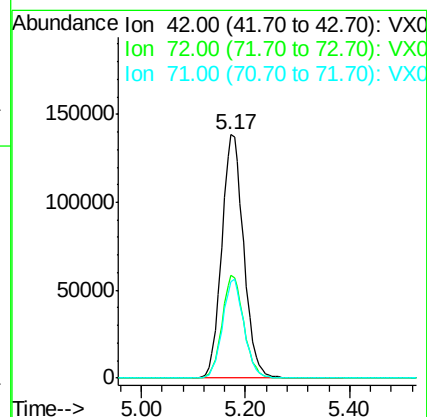
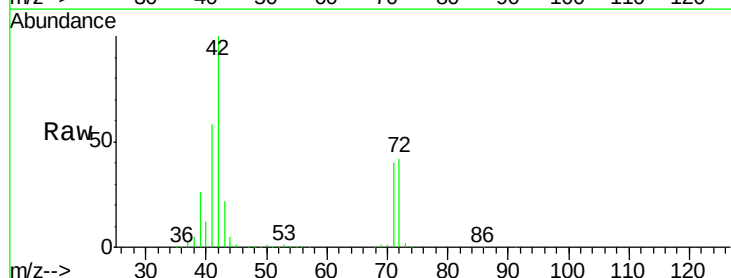
Tgt Ion: 42 Resp: 409020

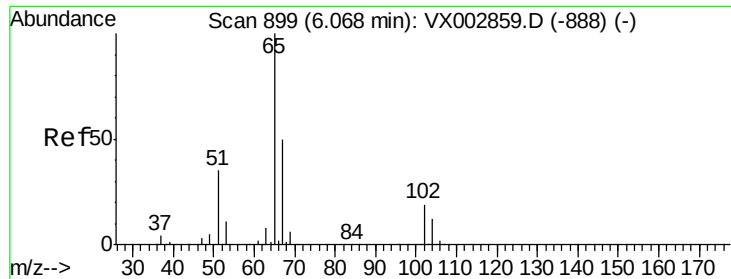
Ion Ratio Lower Upper

42 100

72 41.8 32.0 48.0

71 39.7 30.1 45.1

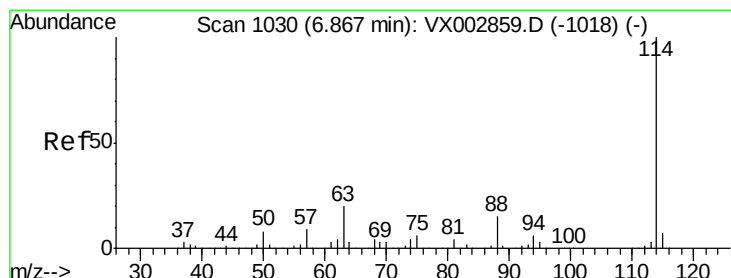
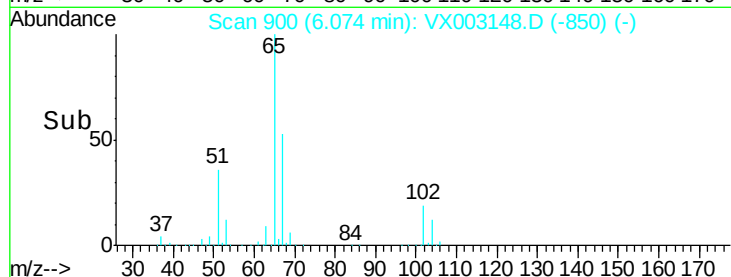
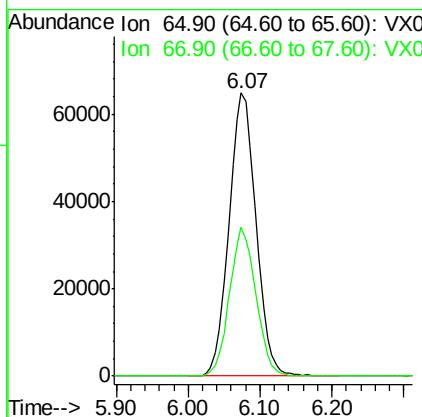
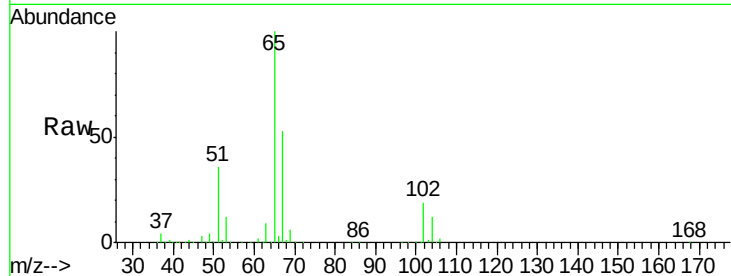




#33
 1,2-Dichloroethane-d4
 Concen: 45.62 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX003148.D
 Acq: 03 Jul 2018 14:58

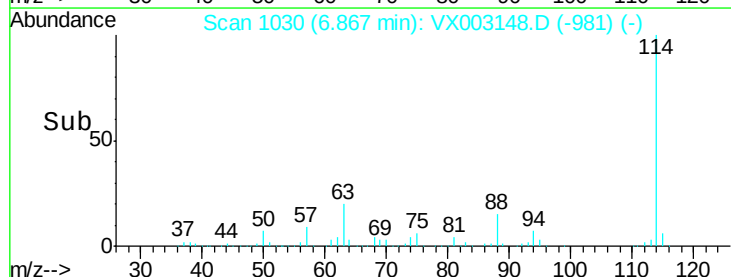
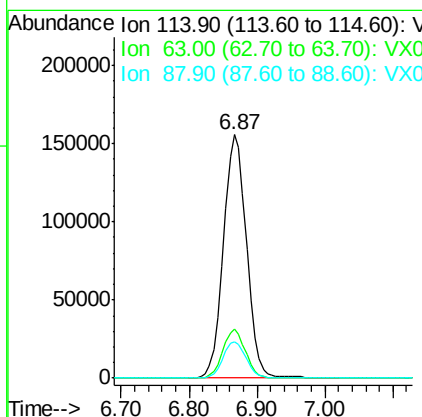
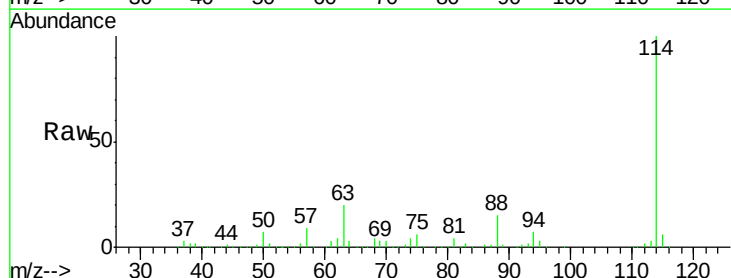
Instrument :
 MSVOA_X
 ClientSampleId :
 S10-EB-2018-1

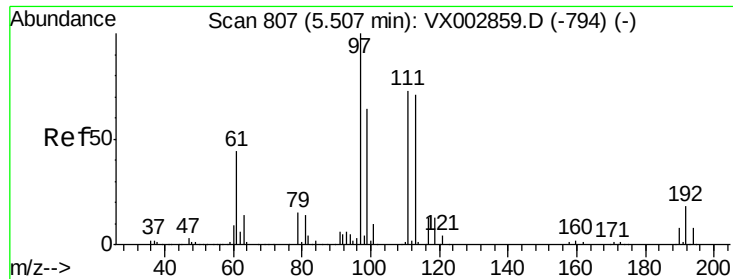
Tot Ion: 65 Resp: 168869
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX003148.D
 Acq: 03 Jul 2018 14:58

Tgt Ion: 114 Resp: 367683
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 41.4
 88 14.8 0.0 30.0





#35

Dibromofluoromethane

Concen: 48.26 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX003148.D

Acq: 03 Jul 2018 14:58

Instrument :

MSVOA_X

ClientSampleId :

S10-EB-2018-1

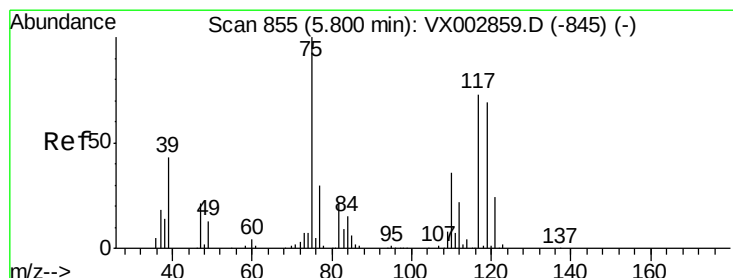
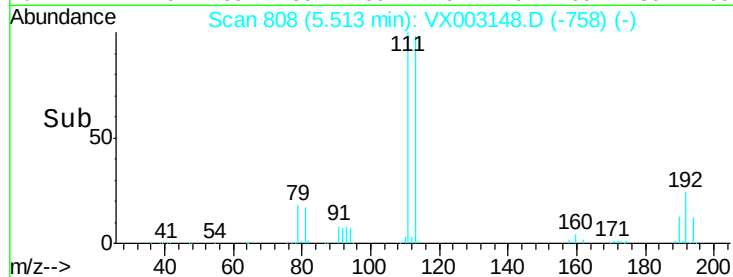
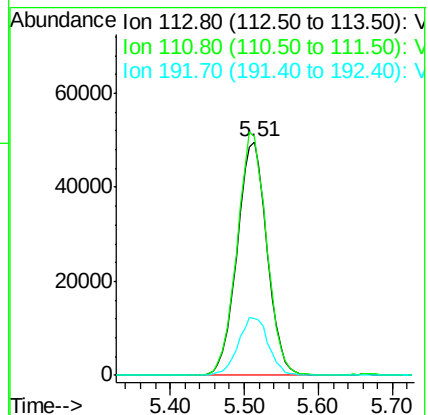
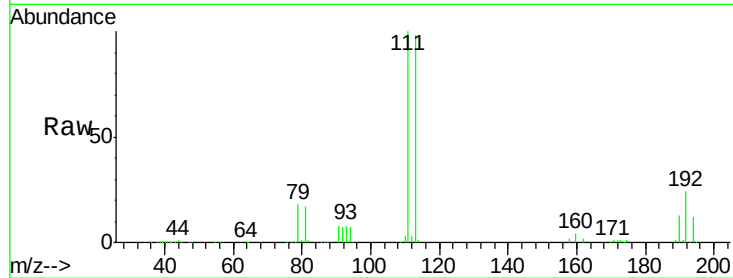
Tot Ion:113 Resp: 140530

Ion Ratio Lower Upper

113 100

111 102.6 81.4 122.0

192 25.1 19.1 28.7



#36

1,1-Dichloropropene

Concen: 4.44 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003148.D

Acq: 03 Jul 2018 14:58

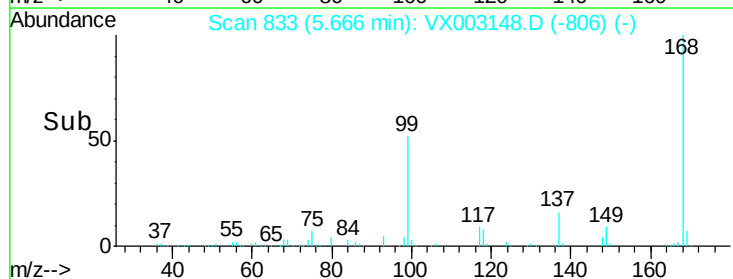
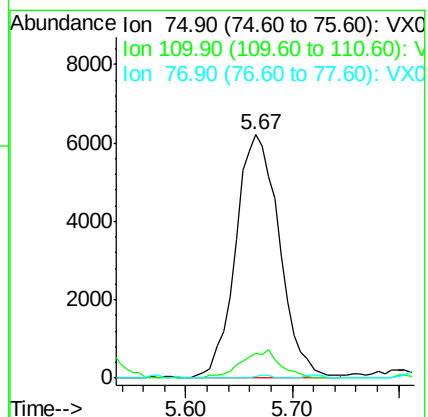
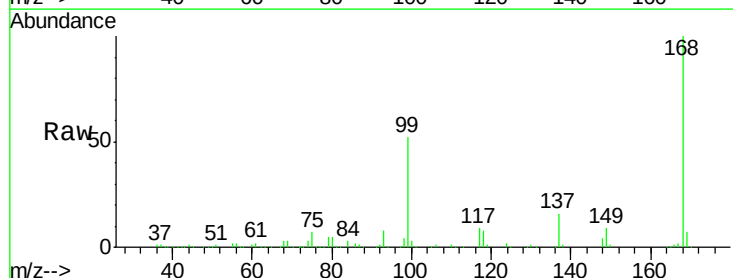
Tgt Ion: 75 Resp: 17913

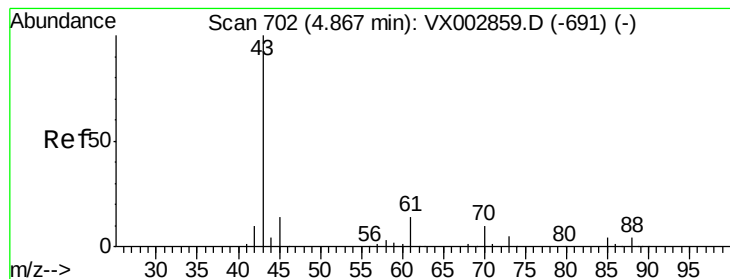
Ion Ratio Lower Upper

75 100

110 10.2 18.1 54.4#

77 0.4 24.3 36.5#





#37

Ethyl Acetate

Concen: 5.00 ug/l

RT: 4.72 min Scan# 678

Delta R.T. -0.15 min

Lab File: VX003148.D

Acq: 03 Jul 2018 14:58

Instrument :

MSVOA_X

ClientSampleId :

S10-EB-2018-1

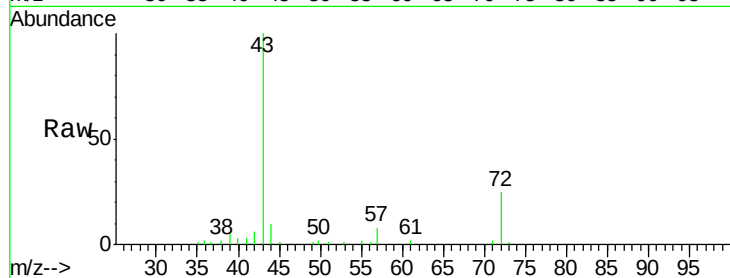
Tot Ion: 43 Resp: 21725

Ion Ratio Lower Upper

43 100

61 0.0 10.4 15.6#

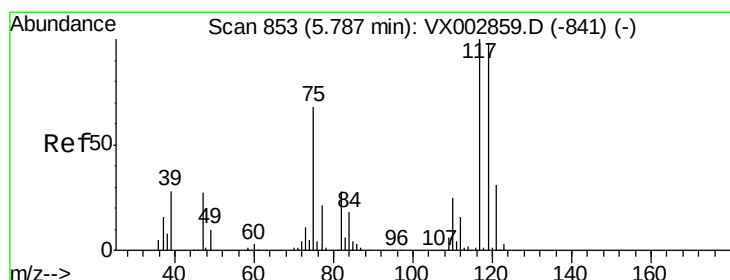
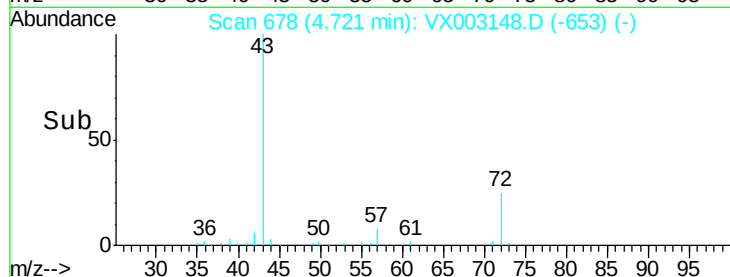
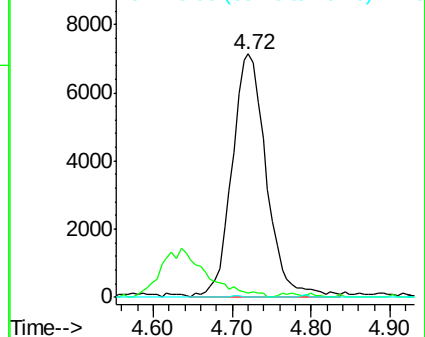
70 0.0 7.6 11.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 5.40 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX003148.D

Acq: 03 Jul 2018 14:58

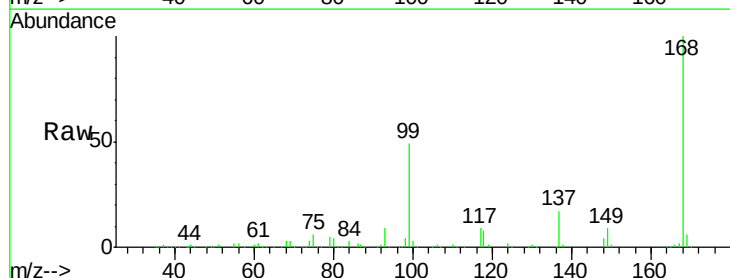
Tgt Ion: 117 Resp: 23878

Ion Ratio Lower Upper

117 100

119 6.1 77.4 116.0#

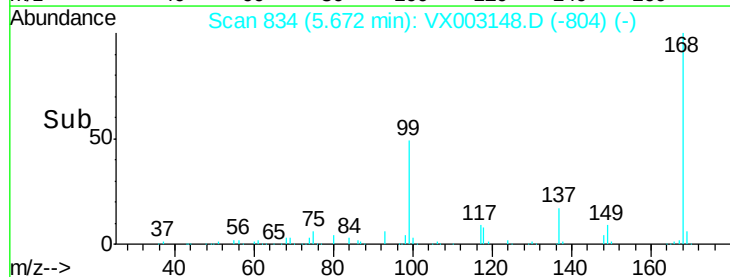
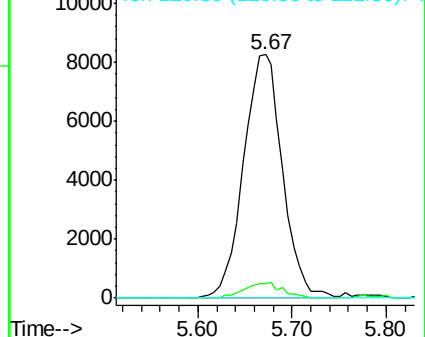
121 0.0 24.4 36.6#

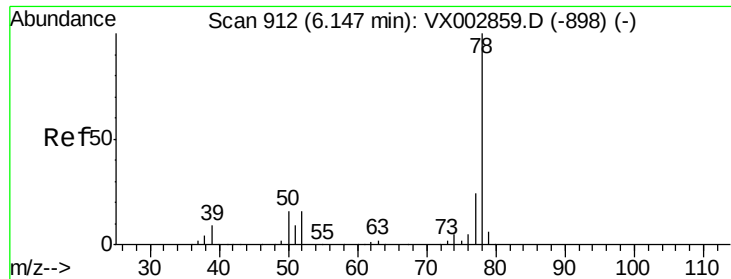


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#40

Benzene

Concen: 0.40 ug/l

RT: 6.15 min Scan# 912

Delta R.T. 0.00 min

Lab File: VX003148.D

Acq: 03 Jul 2018 14:58

Instrument :

MSVOA_X

ClientSampled :

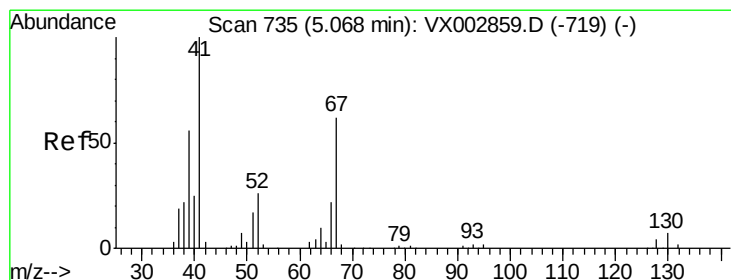
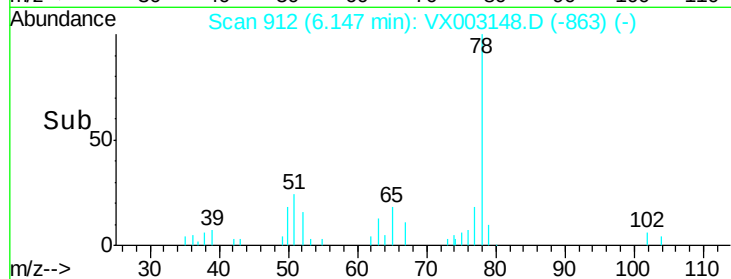
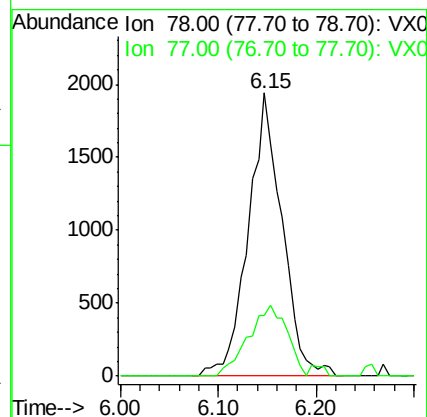
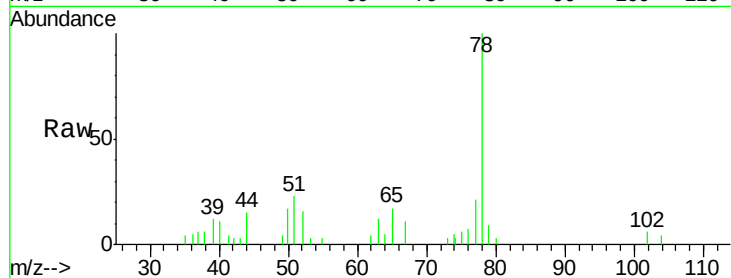
S10-EB-2018-1

Tot Ion: 78 Resp: 4664

Ion Ratio Lower Upper

78 100

77 21.3 19.1 28.7



#41

Methacrylonitrile

Concen: 94.65 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.10 min

Lab File: VX003148.D

Acq: 03 Jul 2018 14:58

Tgt Ion: 41 Resp: 236621

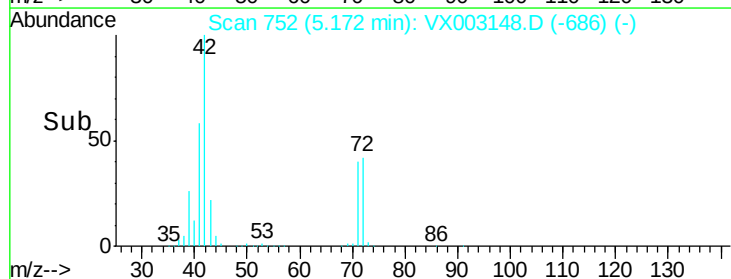
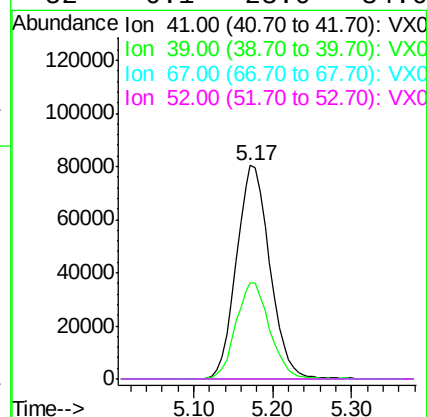
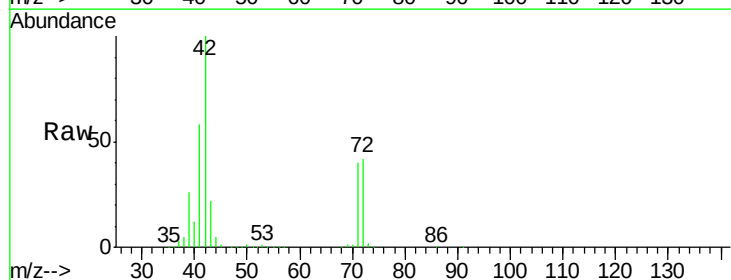
Ion Ratio Lower Upper

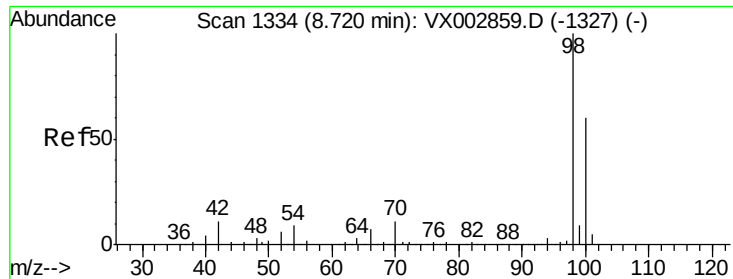
41 100

39 45.7 45.8 68.6#

67 0.0 51.3 76.9#

52 0.1 23.0 34.6#

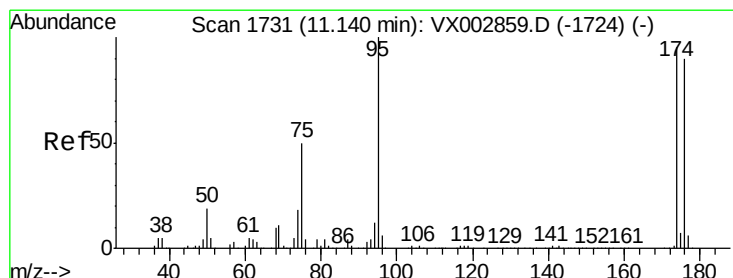
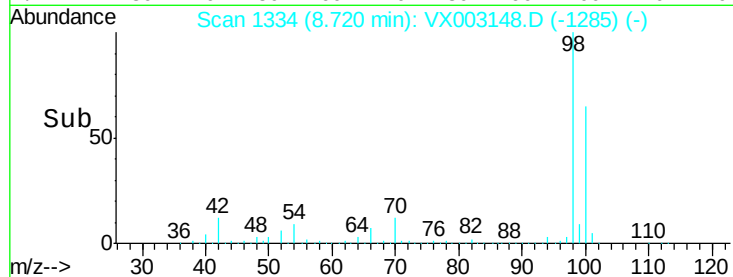
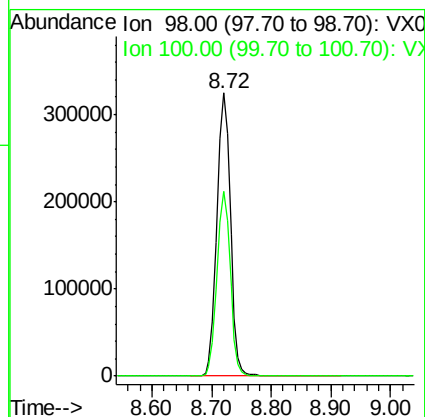
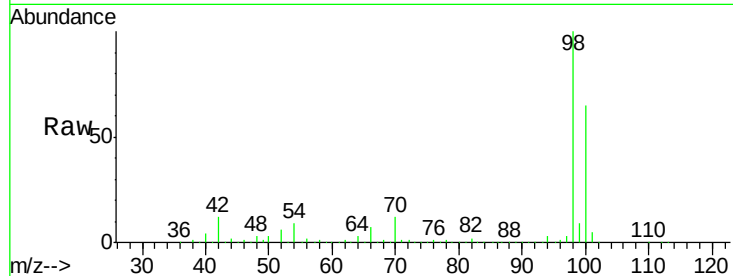




#50
Toluene-d8
Concen: 47.73 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003148.D
Acq: 03 Jul 2018 14:58

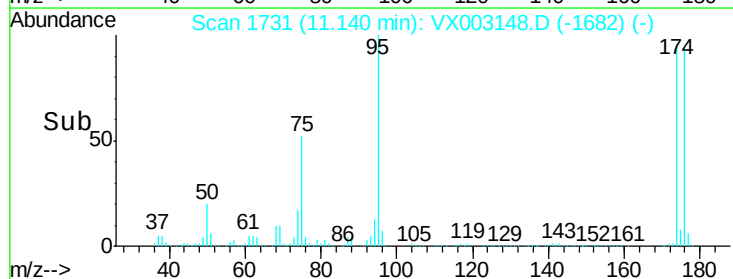
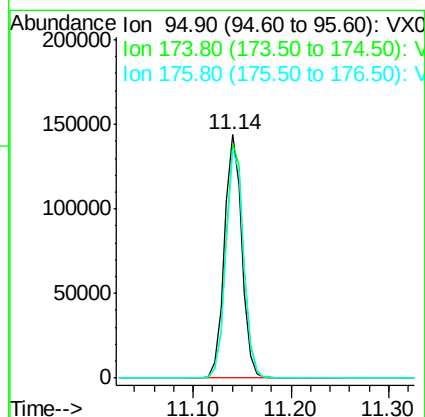
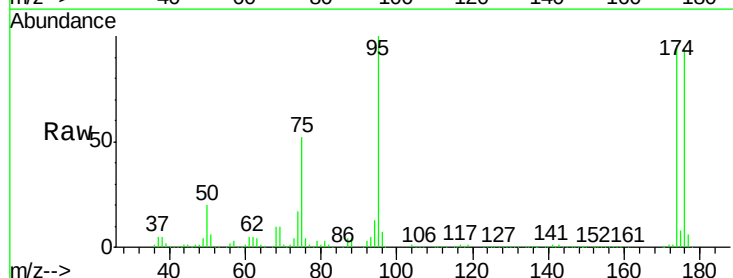
Instrument :
MSVOA_X
ClientSampleId :
S10-EB-2018-1

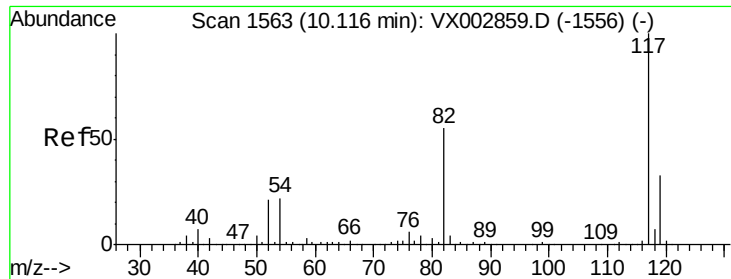
Tot Ion: 98 Resp: 507455
Ion Ratio Lower Upper
98 100
100 64.2 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 43.18 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003148.D
Acq: 03 Jul 2018 14:58

Tgt Ion: 95 Resp: 177055
Ion Ratio Lower Upper
95 100
174 98.6 0.0 187.4
176 95.0 0.0 181.0

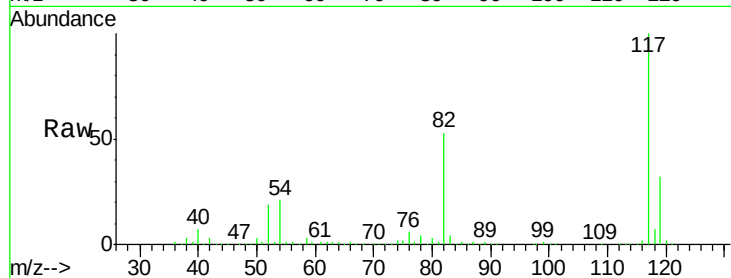




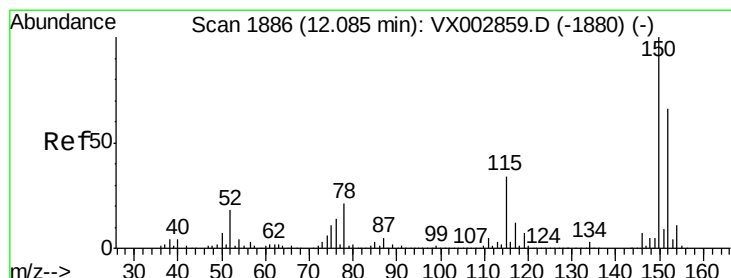
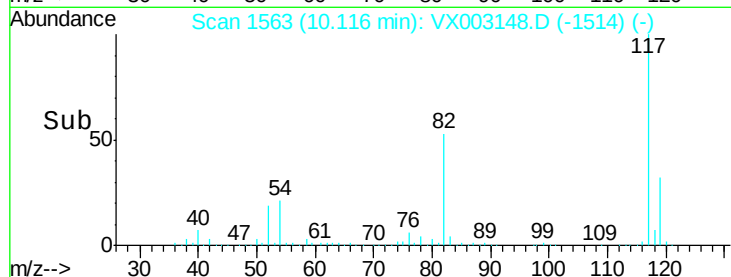
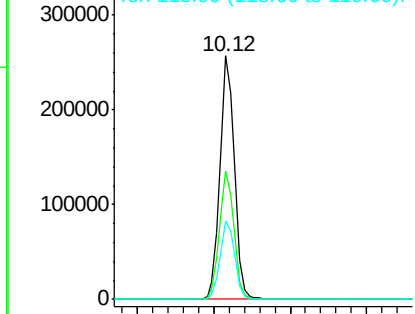
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003148.D
Acq: 03 Jul 2018 14:58

Instrument :
MSVOA_X
ClientSampled :
S10-EB-2018-1

Tot Ion:117 Resp: 337800
Ion Ratio Lower Upper
117 100
82 53.0 45.0 67.4
119 32.5 25.8 38.6

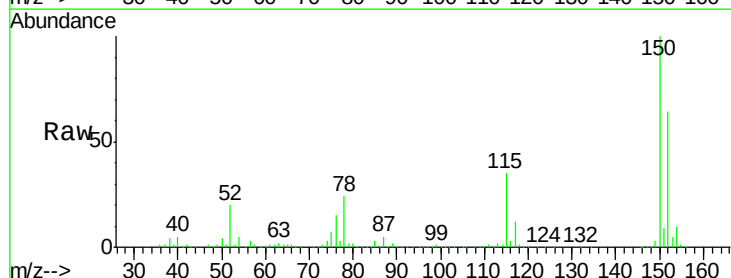


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

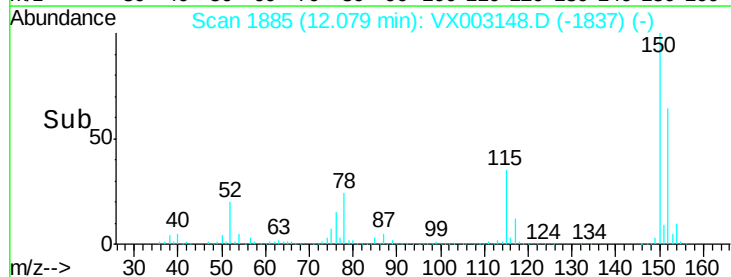
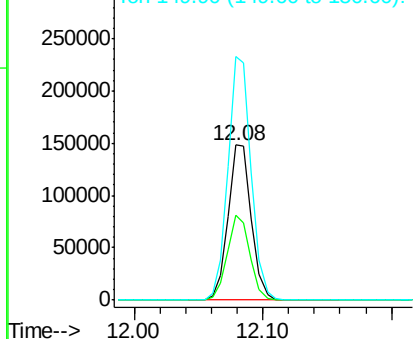


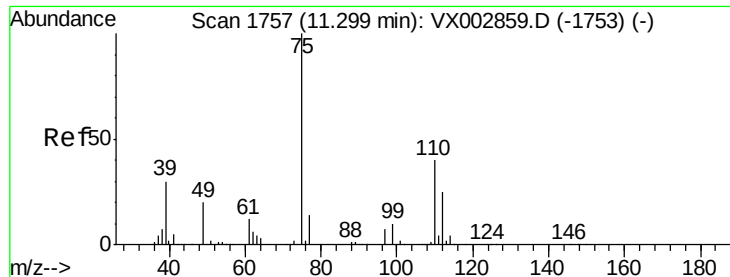
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.01 min
Lab File: VX003148.D
Acq: 03 Jul 2018 14:58

Tgt Ion:152 Resp: 187720
Ion Ratio Lower Upper
152 100
115 53.3 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: 26.61 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003148.D

Acq: 03 Jul 2018 14:58

Instrument :

MSVOA_X

ClientSampleId :

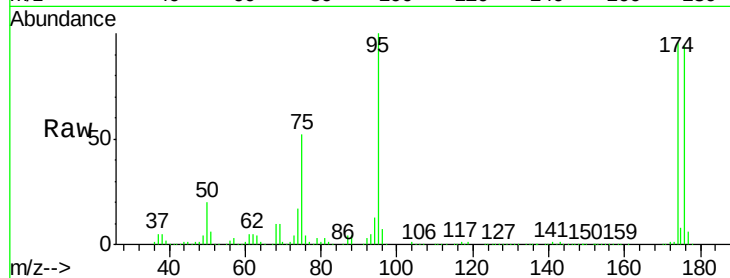
S10-EB-2018-1

Tot Ion: 75 Resp: 90499

Ion Ratio Lower Upper

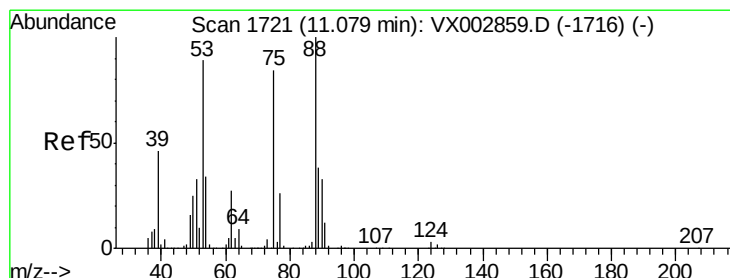
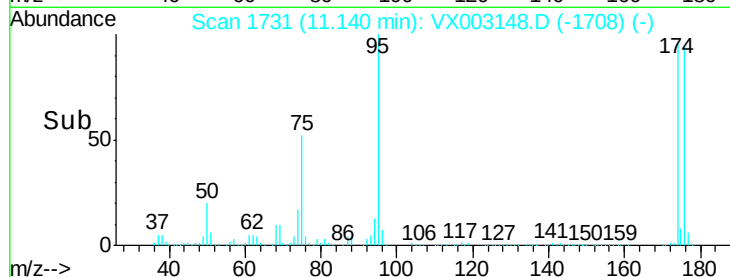
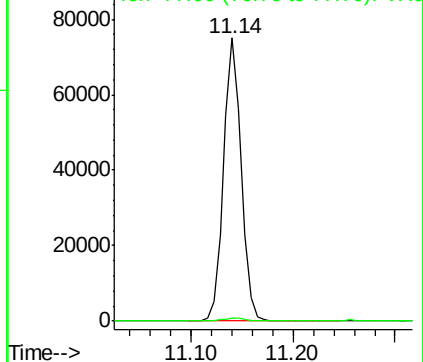
75 100

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: 75.39 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003148.D

Acq: 03 Jul 2018 14:58

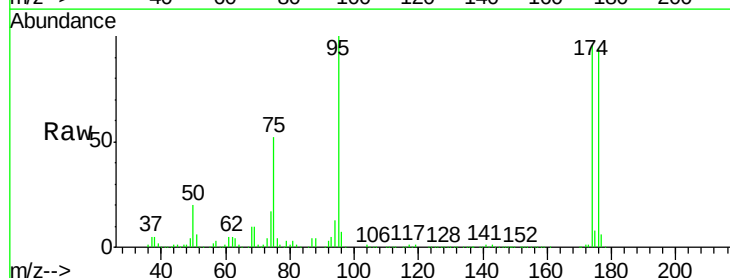
Tgt Ion: 75 Resp: 90499

Ion Ratio Lower Upper

75 100

53 0.3 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

