

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX063018\
 Data File : VX003072.D
 Acq On : 30 Jun 2018 11:51
 Operator : JC/MD
 Sample : VX0630WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0630WBL01

Quant Time: Jul 02 02:38:10 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	291574	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	407181	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	373564	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	200978	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	190101	47.17	ug/l	0.00
Spiked Amount			Recovery	=	94.34%	
35) Dibromofluoromethane	5.50	113	156651	48.58	ug/l	0.00
Spiked Amount			Recovery	=	97.16%	
50) Toluene-d8	8.72	98	567912	48.23	ug/l	0.00
Spiked Amount			Recovery	=	96.46%	
62) 4-Bromofluorobenzene	11.14	95	195754	43.11	ug/l	0.00
Spiked Amount			Recovery	=	86.22%	

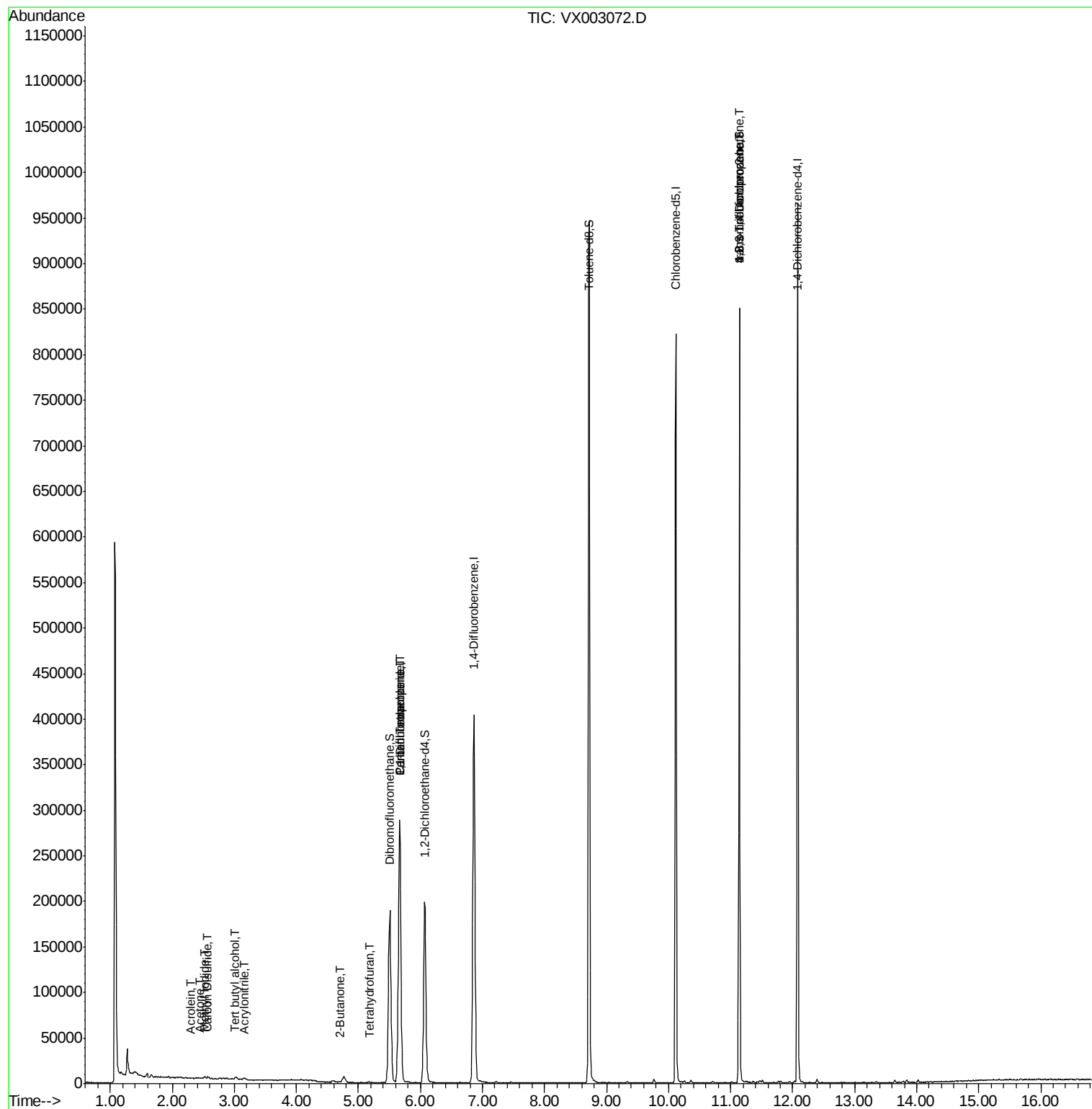
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	157	Below Cal		90
3) Chloromethane	1.32	50	764	Below Cal		94
5) Bromomethane	1.66	94	2156	Below Cal		82
6) Chloroethane	1.74	64	762	Below Cal		93
10) Methyl Iodide	2.53	142	2701	6.95 ug/l	#	96
11) Tert butyl alcohol	3.01	59	1839	2.29 ug/l	#	90
13) Acrolein	2.29	56	263	4.81 ug/l	#	82
15) Acrylonitrile	3.15	53	405	0.24 ug/l	#	48
16) Acetone	2.44	43	698	0.42 ug/l	#	60
17) Carbon Disulfide	2.57	76	2269	0.30 ug/l	#	94
25) 2-Butanone	4.71	43	518	0.21 ug/l	#	52
29) Tetrahydrofuran	5.18	42	719	0.45 ug/l	#	67
36) 1,1-Dichloropropene	5.67	75	18573	4.16 ug/l	#	51
38) Carbon Tetrachloride	5.67	117	25985	5.30 ug/l	#	16
76) 1,2,3-Trichloropropane	11.14	75	99234	27.26 ug/l	#	33
81) trans-1,4-Dichloro-2-buten	11.14	75	99234	77.13 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: VX003072.D

Acq: 30 Jun 2018 11:51

Instrument :

MSVOA_X

ClientSampleId :

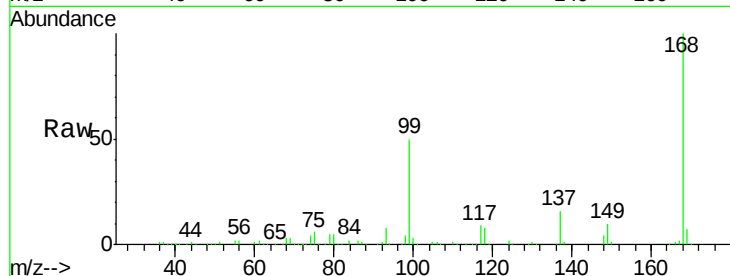
VX0630WBL01

Tot Ion:168 Resp: 291574

Ion Ratio Lower Upper

168 100

99 50.3 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

120000

100000

80000

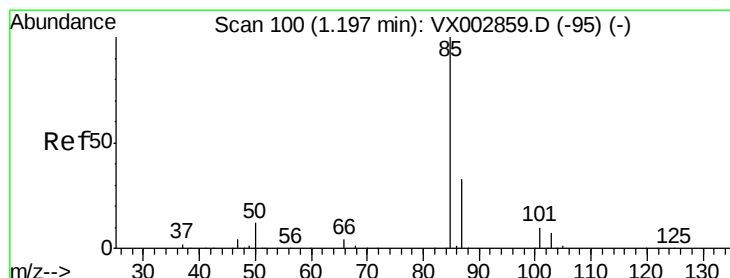
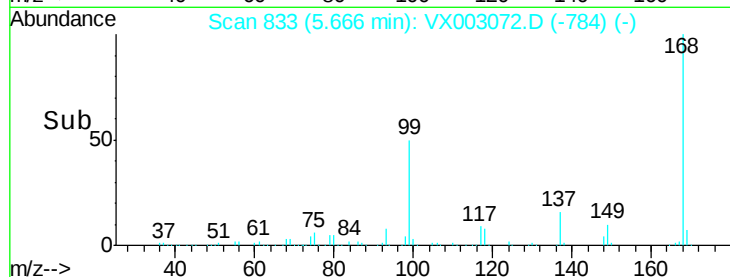
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003072.D

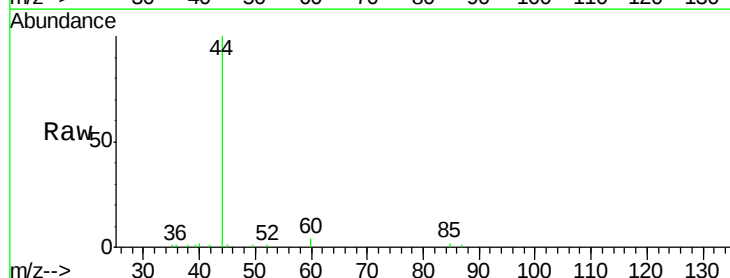
Acq: 30 Jun 2018 11:51

Tgt Ion: 85 Resp: 157

Ion Ratio Lower Upper

85 100

87 26.6 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

200

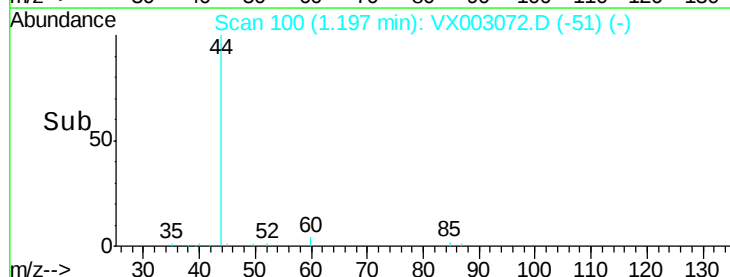
150

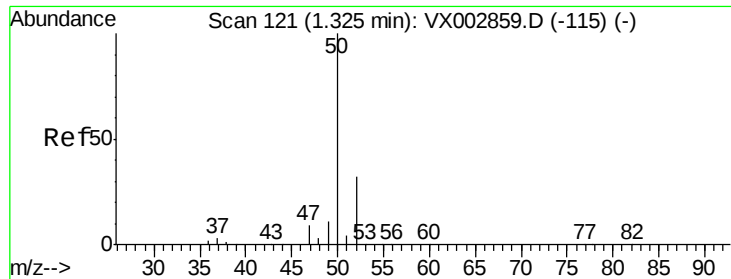
100

50

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: VX003072.D

Acq: 30 Jun 2018 11:51

Instrument :

MSVOA_X

ClientSampleId :

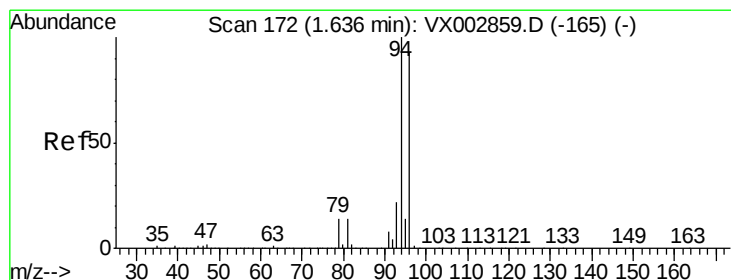
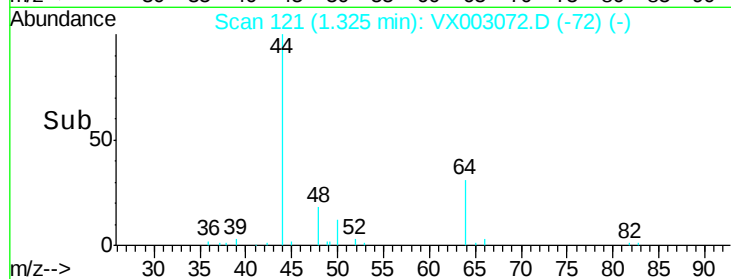
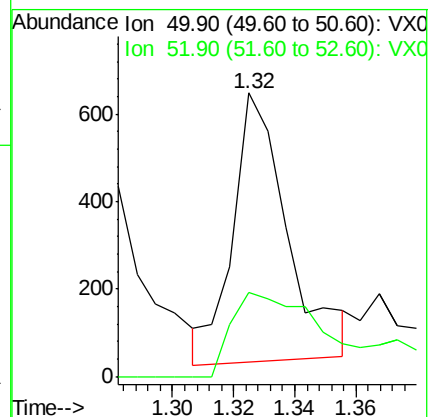
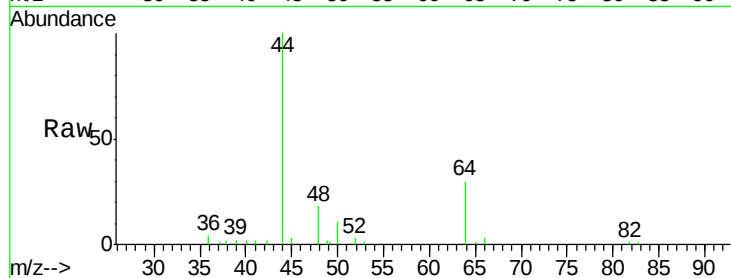
VX0630WBL01

Tot Ion: 50 Resp: 764

Ion Ratio Lower Upper

50 100

52 35.4 25.7 38.5



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX003072.D

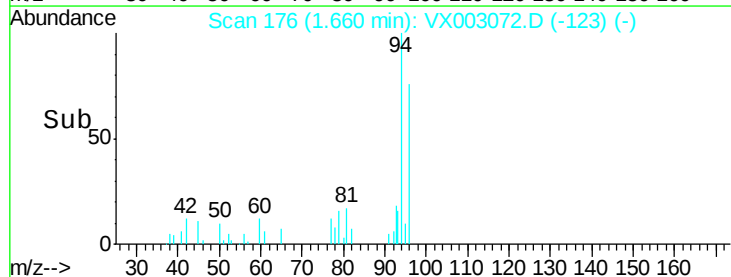
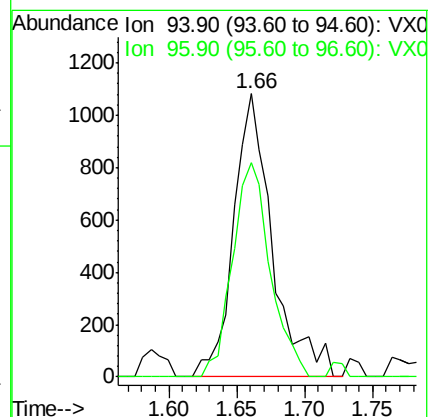
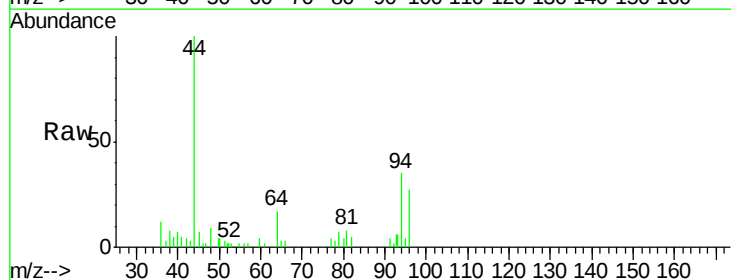
Acq: 30 Jun 2018 11:51

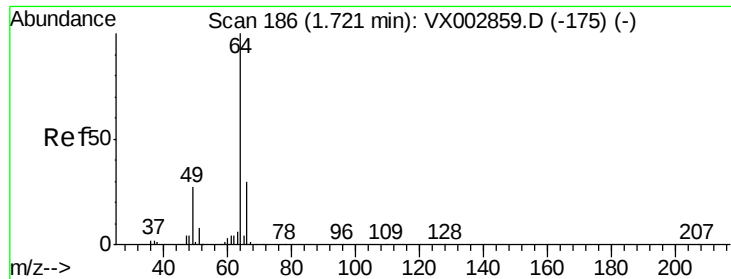
Tgt Ion: 94 Resp: 2156

Ion Ratio Lower Upper

94 100

96 75.8 74.9 112.3





#6

Chloroethane

Concen: Below Cal

RT: 1.74 min Scan# 189

Delta R.T. 0.02 min

Lab File: VX003072.D

Acq: 30 Jun 2018 11:51

Instrument :

MSVOA_X

ClientSampleId :

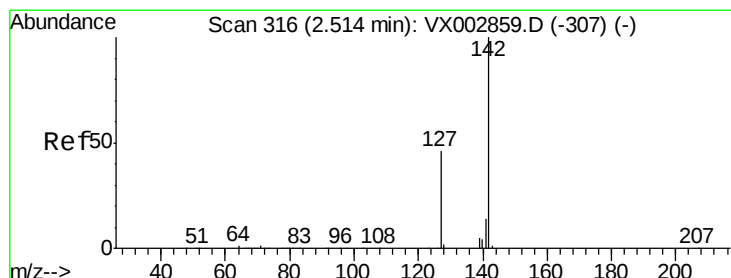
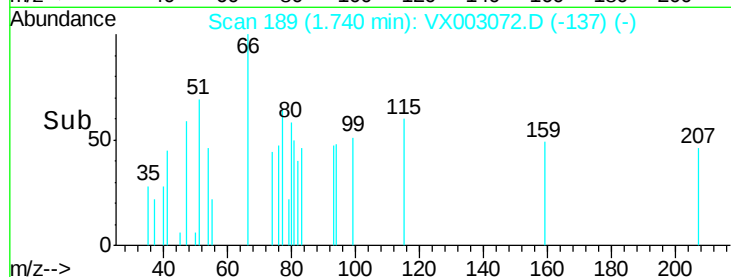
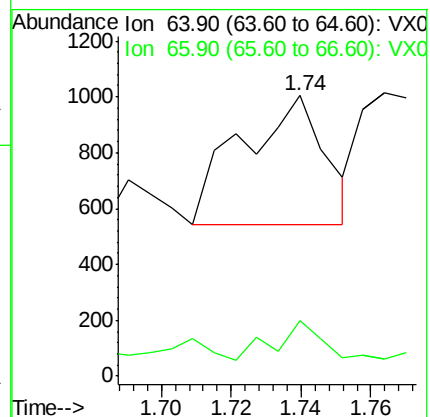
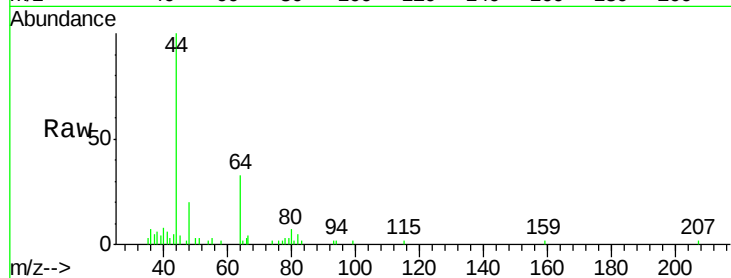
VX0630WBL01

Tot Ion: 64 Resp: 762

Ion Ratio Lower Upper

64 100

66 28.2 25.5 38.3



#10

Methyl Iodide

Concen: 6.95 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX003072.D

Acq: 30 Jun 2018 11:51

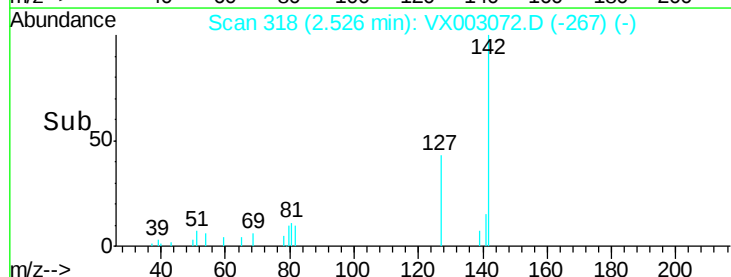
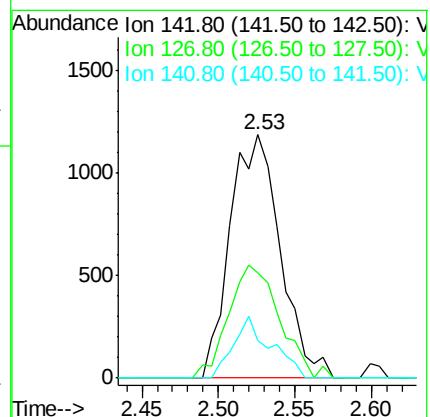
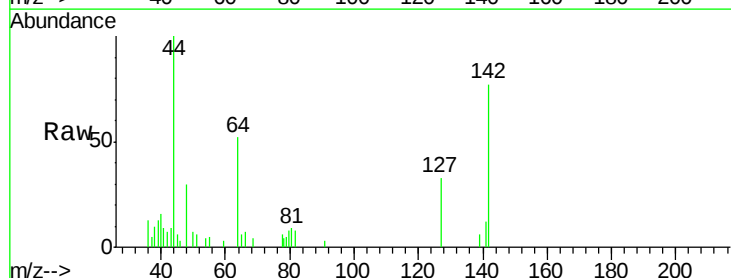
Tgt Ion: 142 Resp: 2701

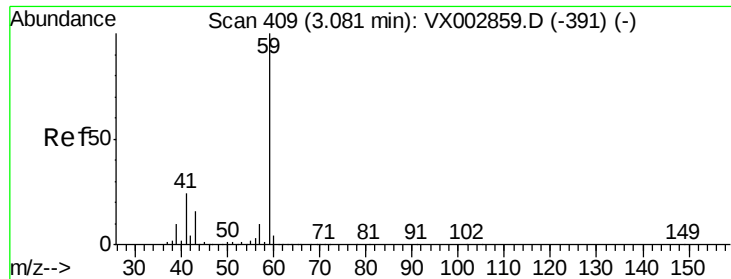
Ion Ratio Lower Upper

142 100

127 47.3 36.6 55.0

141 18.8 11.3 16.9#



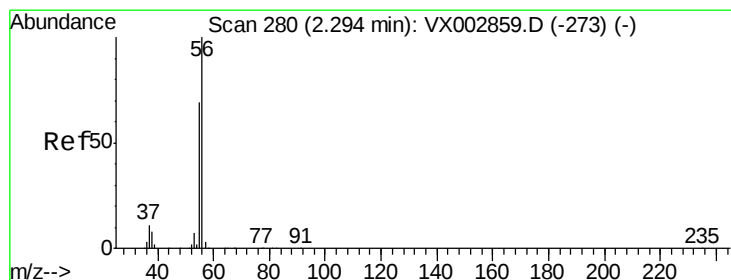
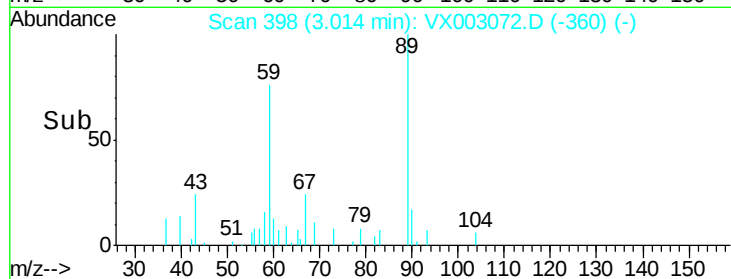
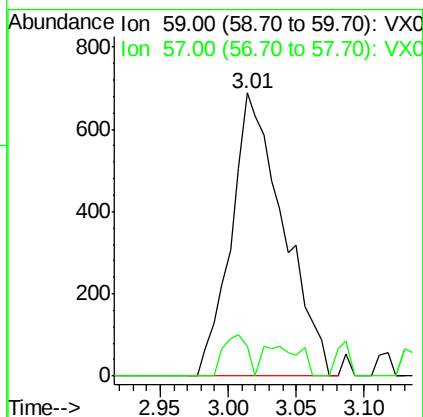
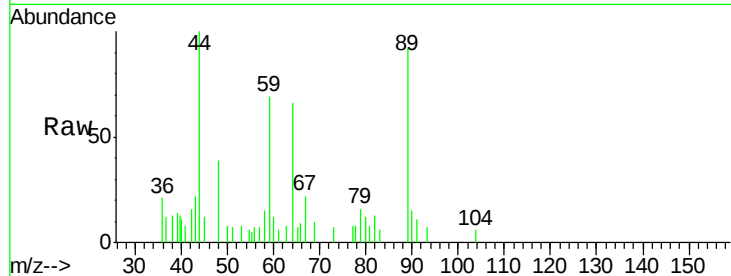


#11

Tert butyl alcohol
Concen: 2.29 ug/l
RT: 3.01 min Scan# 398
Delta R.T. -0.07 min
Lab File: VX003072.D
Acq: 30 Jun 2018 11:51

Instrument :
MSVOA_X
ClientSampleId :
VX0630WBL01

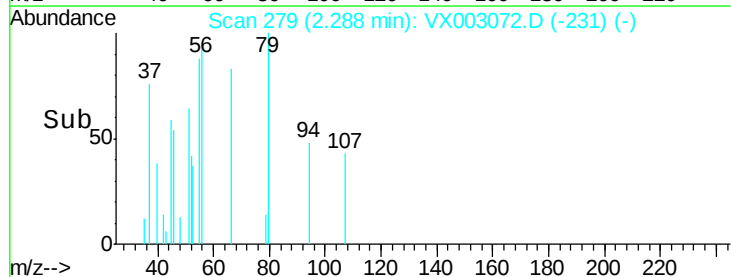
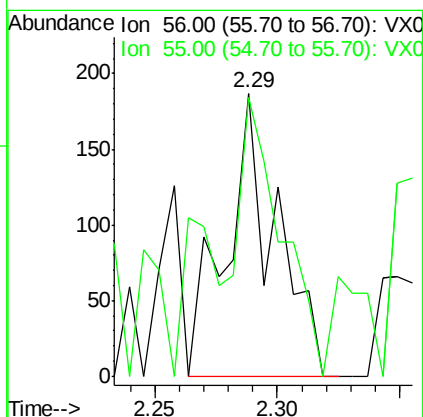
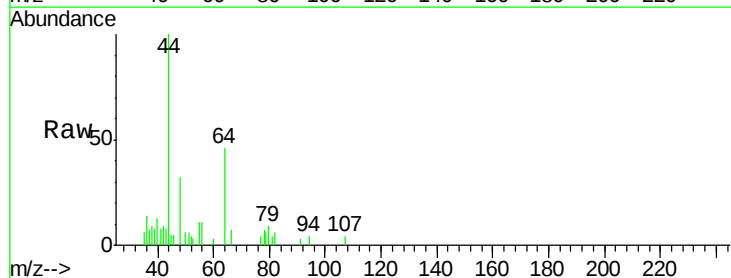
Tot Ion: 59 Resp: 1839
Ion Ratio Lower Upper
59 100
57 6.5 8.2 12.2#

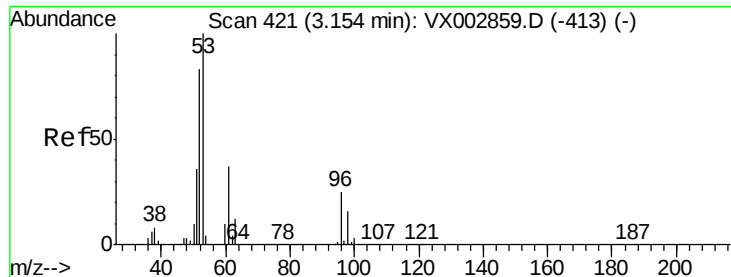


#13

Acrolein
Concen: 4.81 ug/l
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX003072.D
Acq: 30 Jun 2018 11:51

Tgt Ion: 56 Resp: 263
Ion Ratio Lower Upper
56 100
55 86.3 57.0 85.4#





#15

Acrylonitrile

Concen: 0.24 ug/l

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX003072.D

Acq: 30 Jun 2018 11:51

Instrument :

MSVOA_X

ClientSampled :

VX0630WBL01

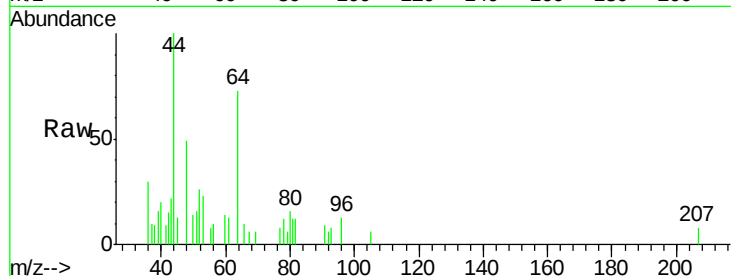
Tot Ion: 53 Resp: 405

Ion Ratio Lower Upper

53 100

52 118.5 66.7 100.1#

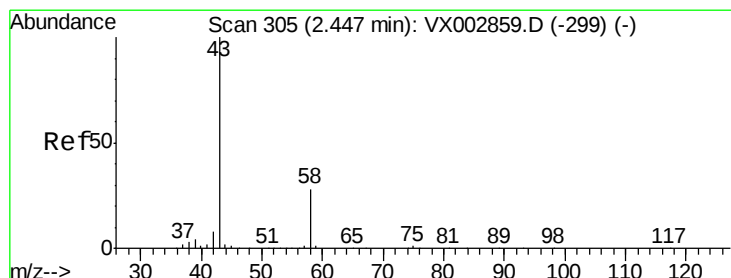
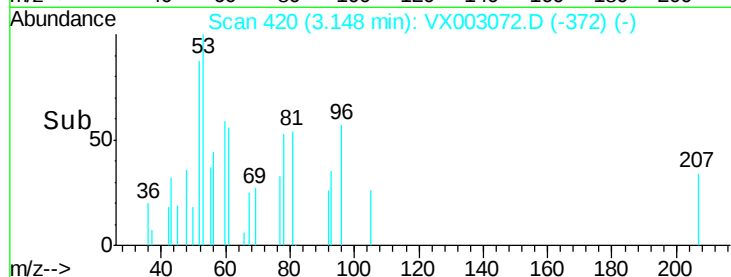
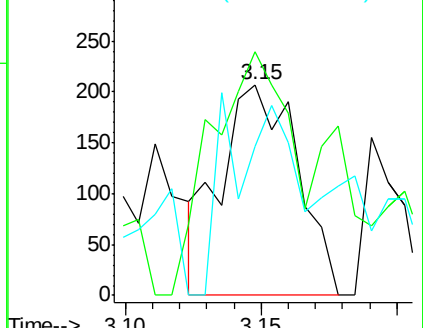
51 86.2 29.9 44.9#



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: 0.42 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.01 min

Lab File: VX003072.D

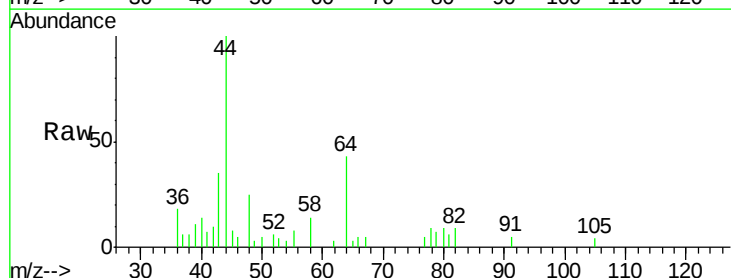
Acq: 30 Jun 2018 11:51

Tgt Ion: 43 Resp: 698

Ion Ratio Lower Upper

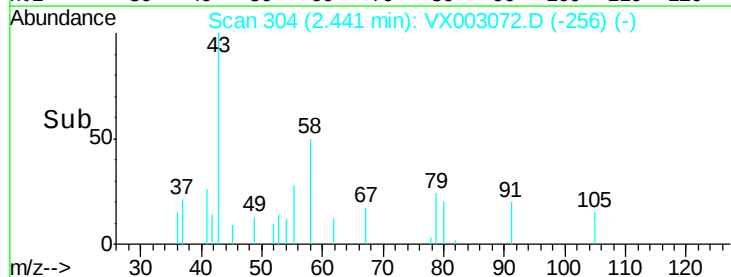
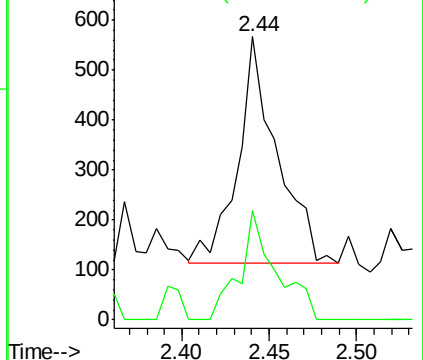
43 100

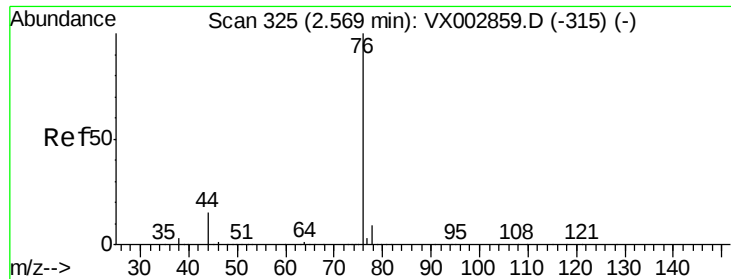
58 48.7 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

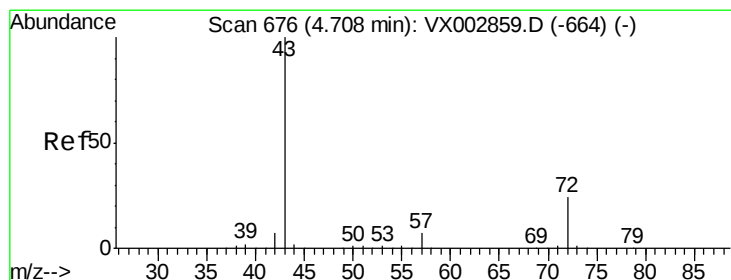
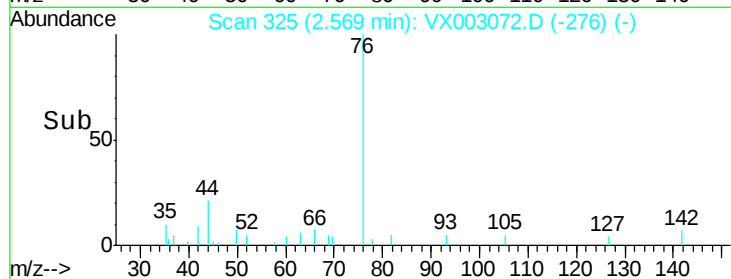
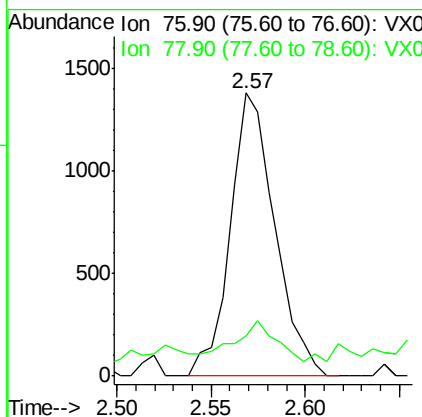
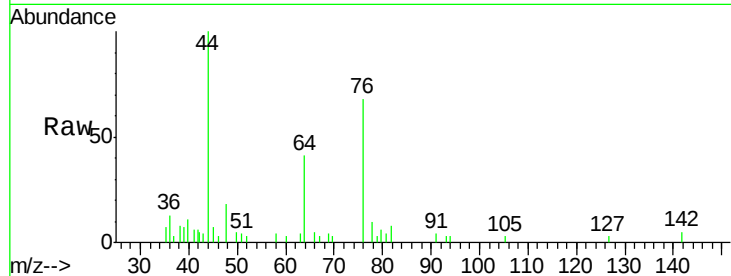




#17
Carbon Disulfide
Concen: 0.30 ug/l
RT: 2.57 min Scan# 325
Delta R.T. 0.00 min
Lab File: VX003072.D
Acq: 30 Jun 2018 11:51

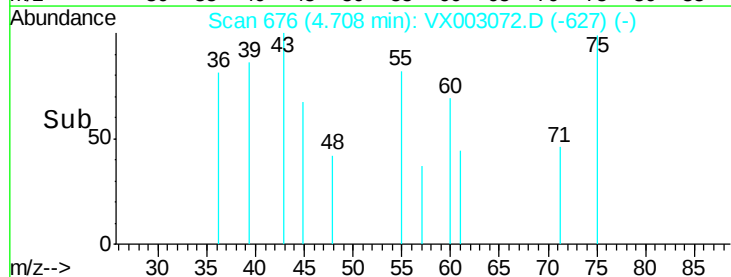
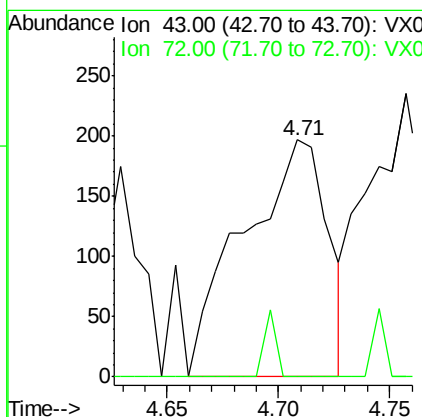
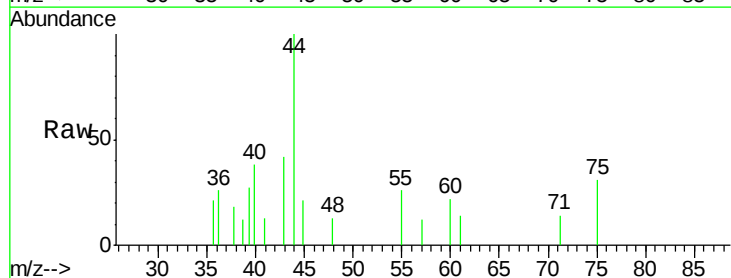
Instrument :
MSVOA_X
ClientSampleId :
VX0630WBL01

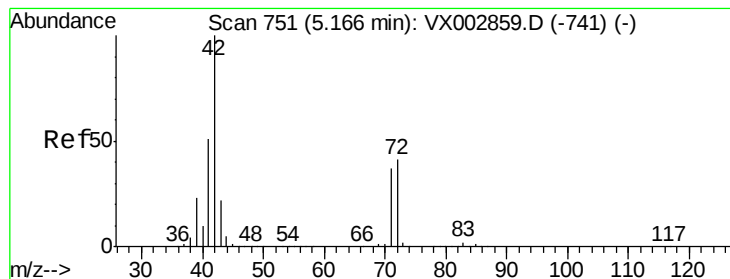
Tot Ion: 76 Resp: 2269
Ion Ratio Lower Upper
76 100
78 6.5 6.9 10.3#



#25
2-Butanone
Concen: 0.21 ug/l
RT: 4.71 min Scan# 676
Delta R.T. 0.00 min
Lab File: VX003072.D
Acq: 30 Jun 2018 11:51

Tgt Ion: 43 Resp: 518
Ion Ratio Lower Upper
43 100
72 0.0 18.5 27.7#





#29

Tetrahydrofuran

Concen: 0.45 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX003072.D

Acq: 30 Jun 2018 11:51

Instrument :

MSVOA_X

ClientSampleId :

VX0630WBL01

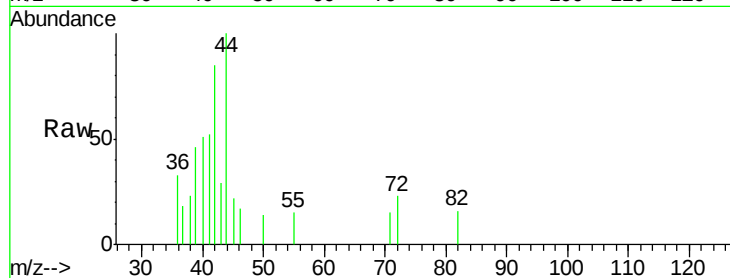
Tot Ion: 42 Resp: 719

Ion Ratio Lower Upper

42 100

72 36.7 32.0 48.0

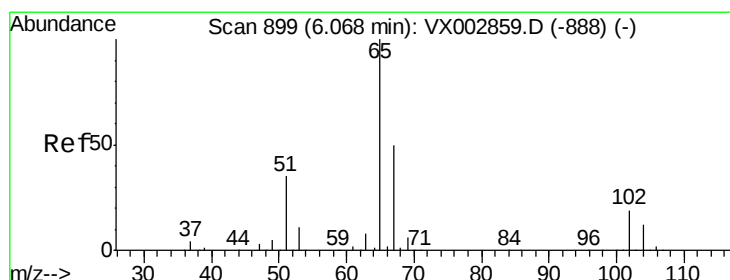
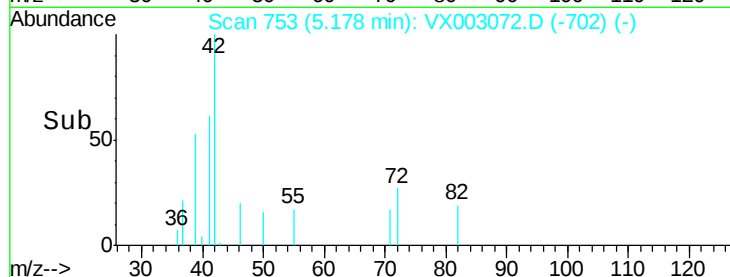
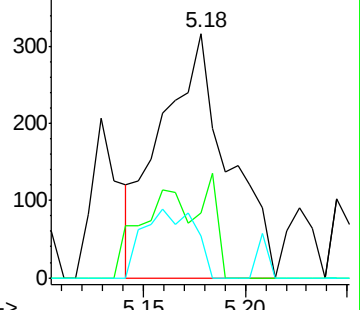
71 0.0 30.1 45.1#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 47.17 ug/l

RT: 6.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: VX003072.D

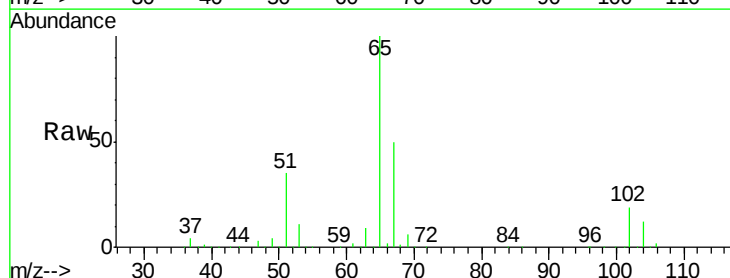
Acq: 30 Jun 2018 11:51

Tgt Ion: 65 Resp: 190101

Ion Ratio Lower Upper

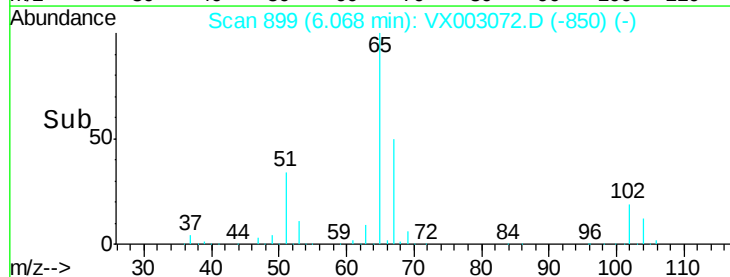
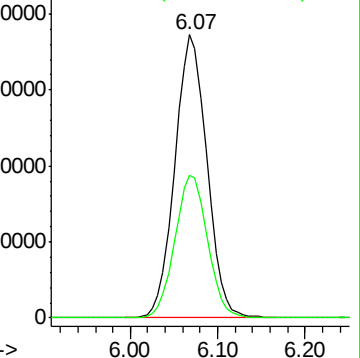
65 100

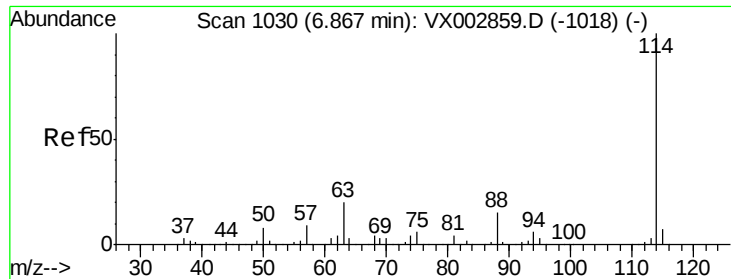
67 51.4 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

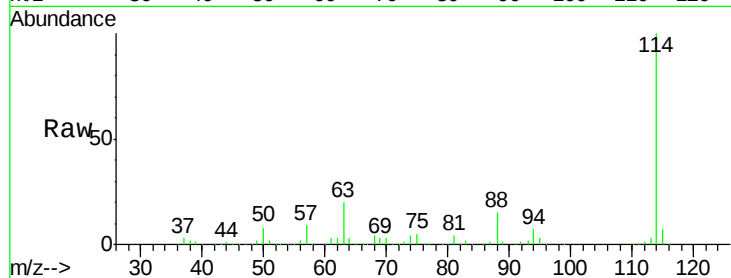




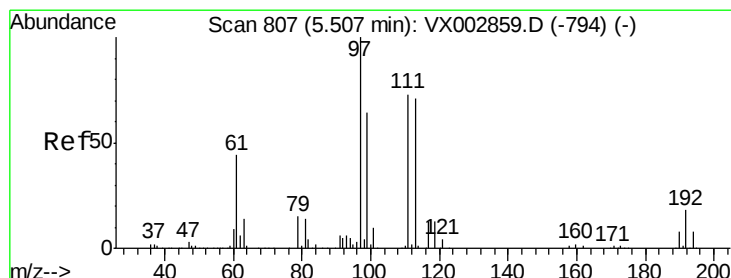
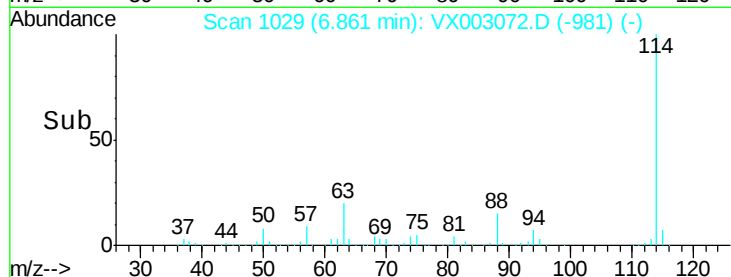
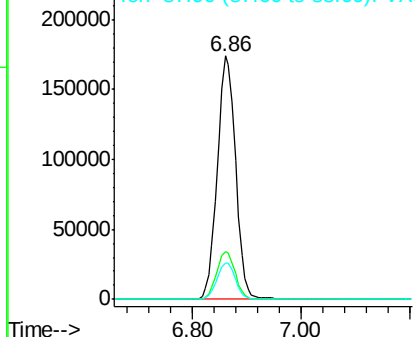
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.01 min
 Lab File: VX003072.D
 Acq: 30 Jun 2018 11:51

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0630WBL01

Tot Ion:114 Resp: 407181
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 41.4
 88 15.0 0.0 30.0

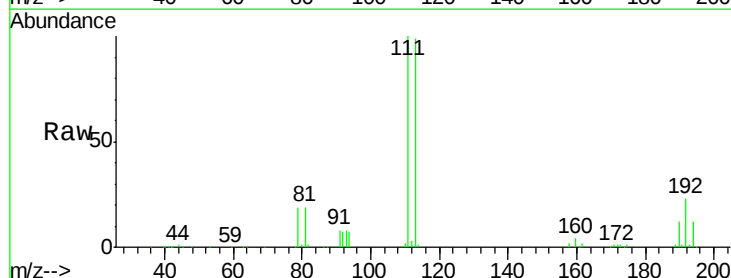


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

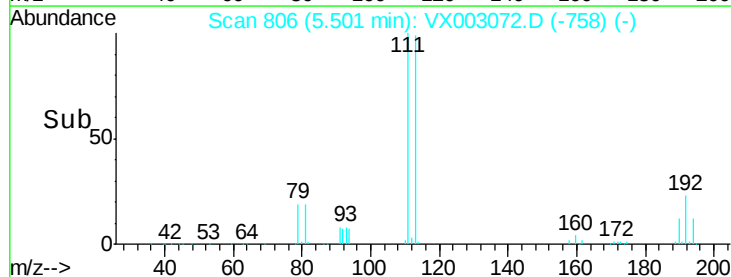
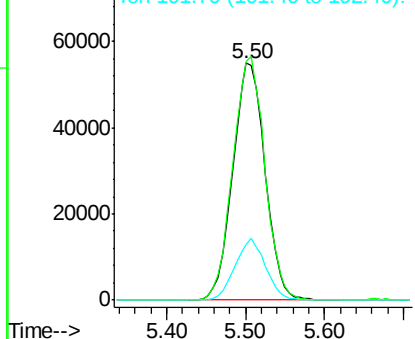


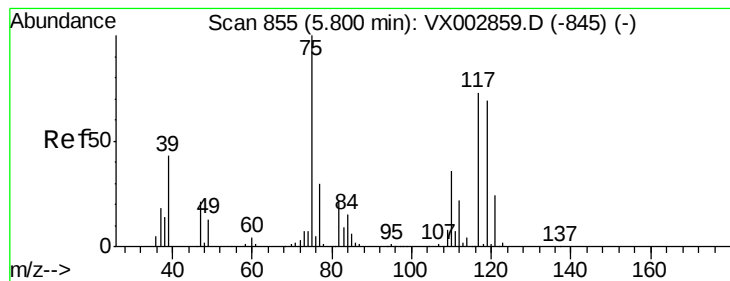
#35
 Dibromofluoromethane
 Concen: 48.58 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. -0.01 min
 Lab File: VX003072.D
 Acq: 30 Jun 2018 11:51

Tgt Ion:113 Resp: 156651
 Ion Ratio Lower Upper
 113 100
 111 102.0 81.4 122.0
 192 24.5 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: 4.16 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003072.D

Acq: 30 Jun 2018 11:51

Instrument :

MSVOA_X

ClientSampleId :

VX0630WBL01

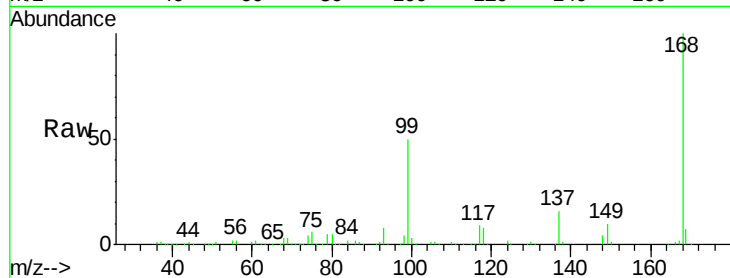
Tot Ion: 75 Resp: 18573

Ion Ratio Lower Upper

75 100

110 10.8 18.1 54.4#

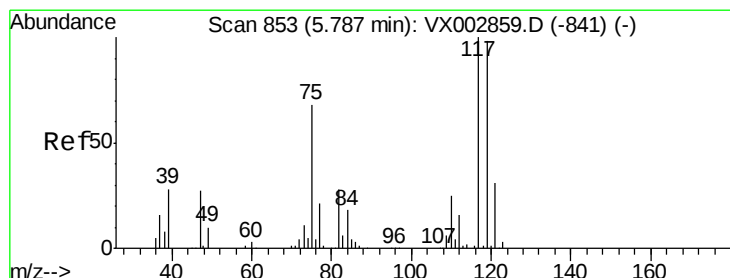
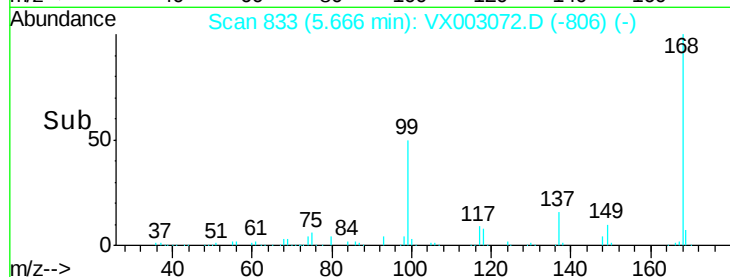
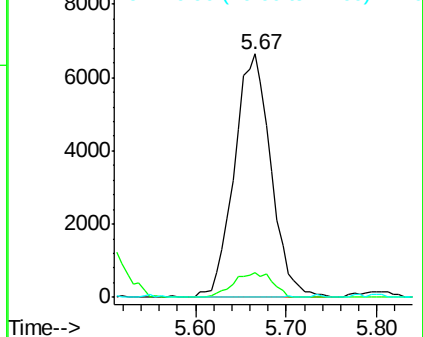
77 0.0 24.3 36.5#



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: 5.30 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003072.D

Acq: 30 Jun 2018 11:51

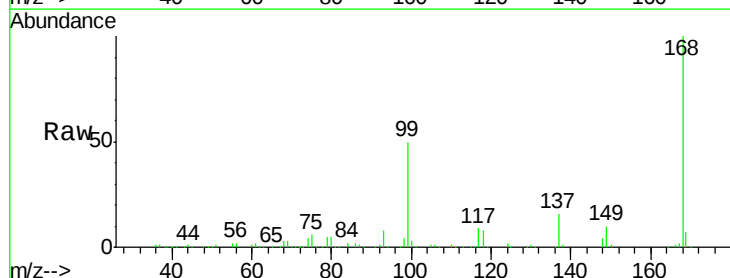
Tgt Ion: 117 Resp: 25985

Ion Ratio Lower Upper

117 100

119 5.4 77.4 116.0#

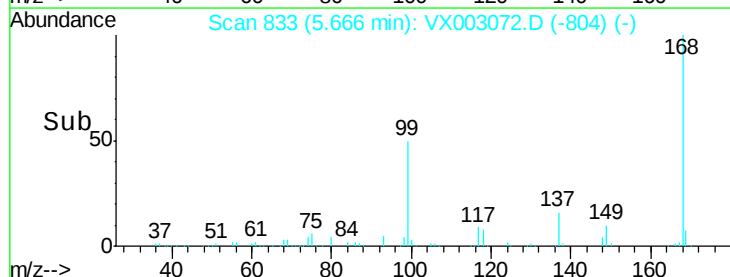
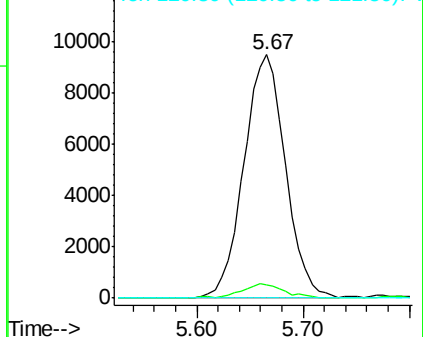
121 0.0 24.4 36.6#

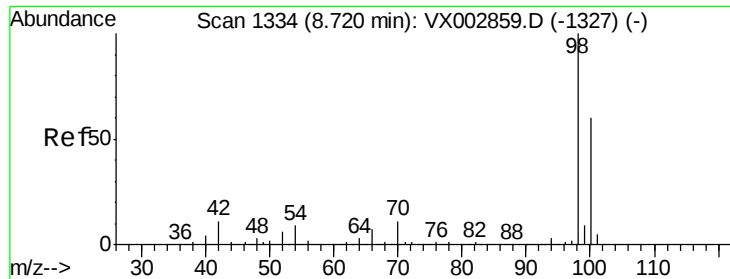


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 48.23 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003072.D

Acq: 30 Jun 2018 11:51

Instrument :

MSVOA_X

ClientSampleId :

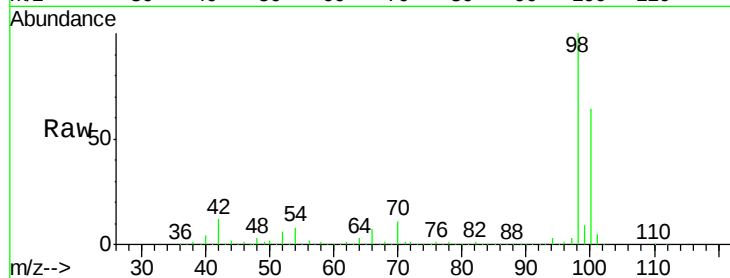
VX0630WBL01

Tot Ion: 98 Resp: 567912

Ion Ratio Lower Upper

98 100

100 64.0 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.72

400000

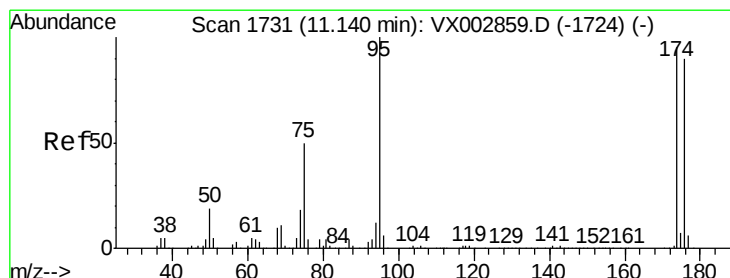
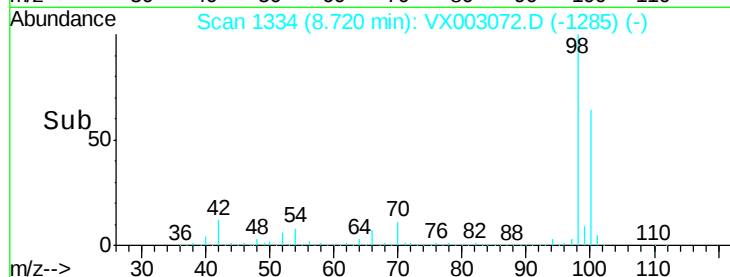
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 43.11 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003072.D

Acq: 30 Jun 2018 11:51

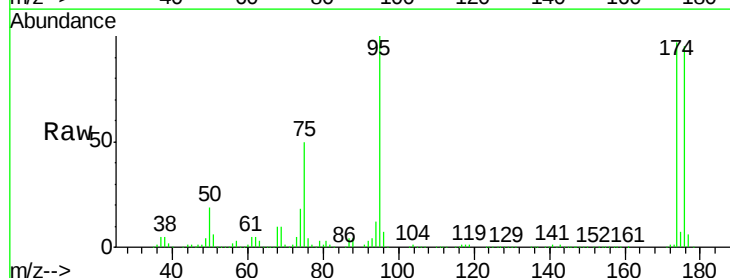
Tgt Ion: 95 Resp: 195754

Ion Ratio Lower Upper

95 100

174 98.0 0.0 187.4

176 94.5 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.14

200000

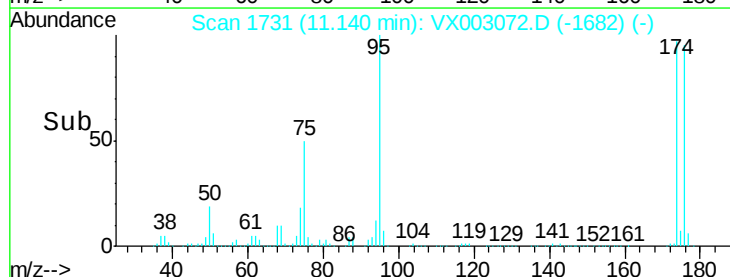
150000

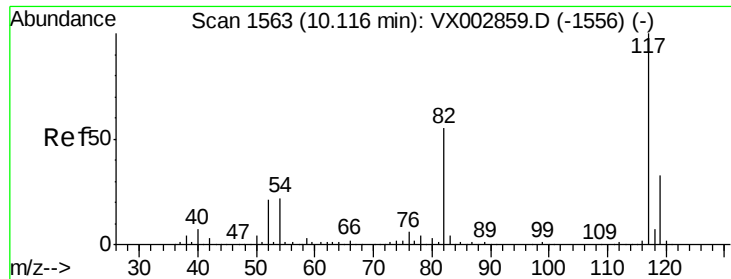
100000

50000

0

Time-->

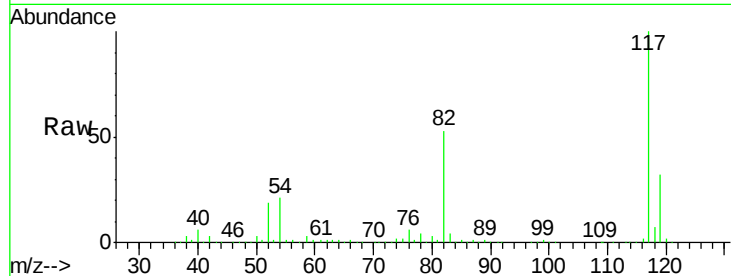




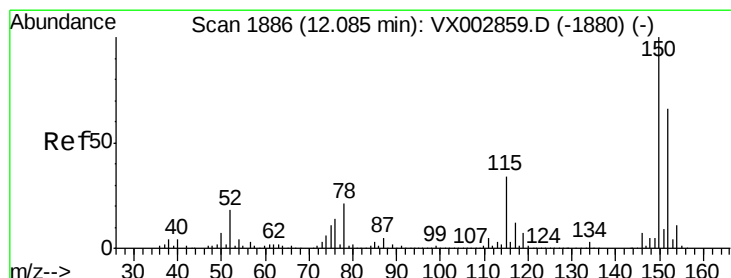
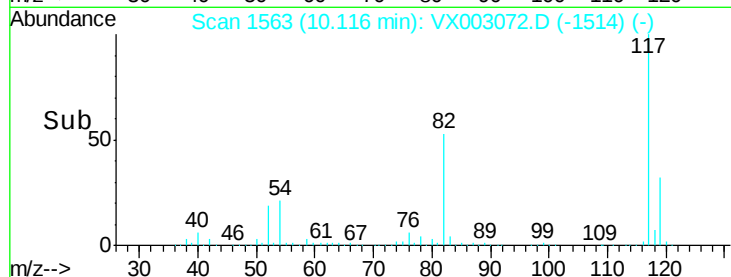
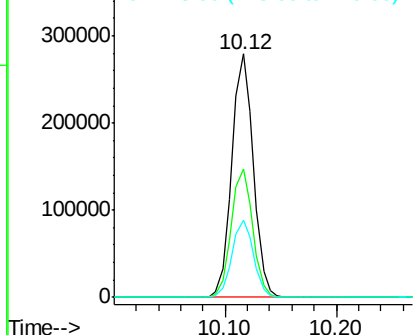
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003072.D
Acq: 30 Jun 2018 11:51

Instrument :
MSVOA_X
ClientSampleId :
VX0630WBL01

Tot Ion:117 Resp: 373564
Ion Ratio Lower Upper
117 100
82 52.6 45.0 67.4
119 31.9 25.8 38.6

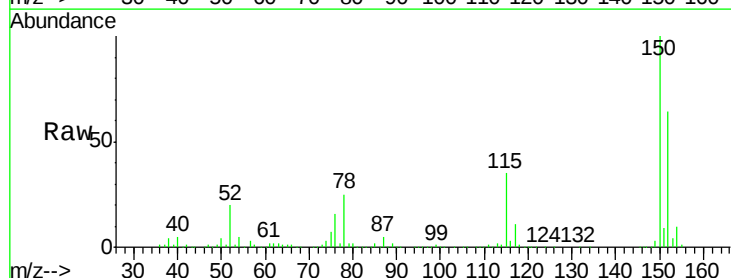


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

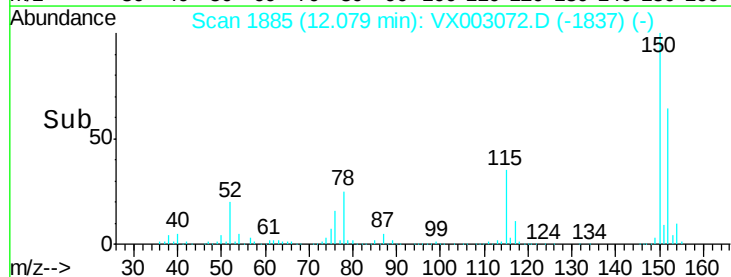
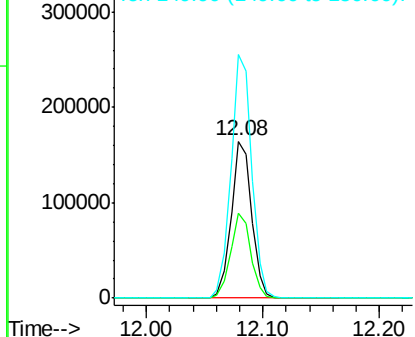


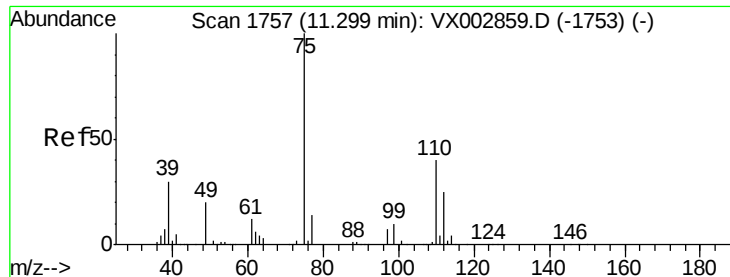
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.01 min
Lab File: VX003072.D
Acq: 30 Jun 2018 11:51

Tgt Ion:152 Resp: 200978
Ion Ratio Lower Upper
152 100
115 53.4 40.1 120.2
150 157.7 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: 27.26 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003072.D

Acq: 30 Jun 2018 11:51

Instrument :

MSVOA_X

ClientSampleId :

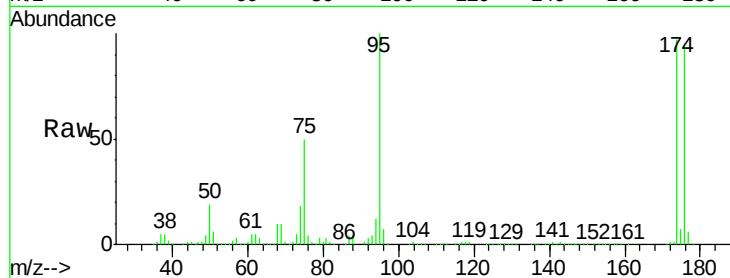
VX0630WBL01

Tot Ion: 75 Resp: 99234

Ion Ratio Lower Upper

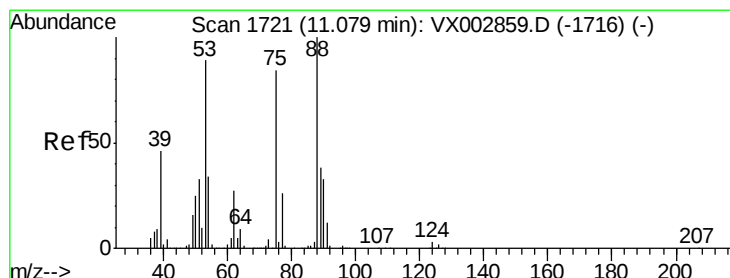
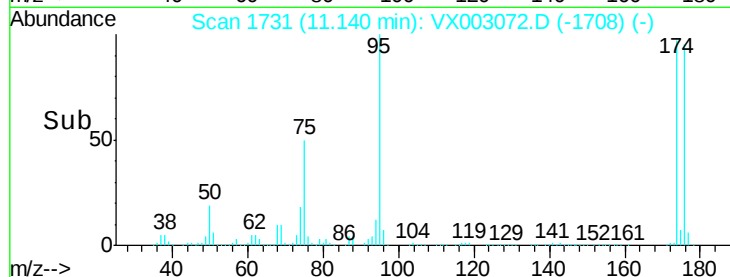
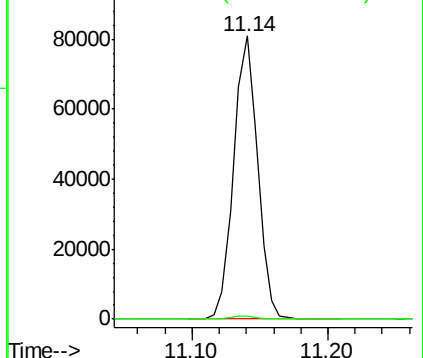
75 100

77 1.3 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: 77.13 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003072.D

Acq: 30 Jun 2018 11:51

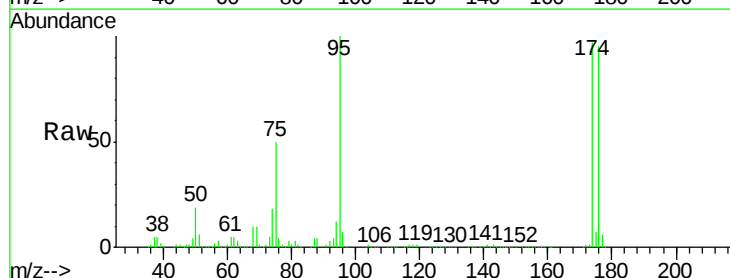
Tgt Ion: 75 Resp: 99234

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

