

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070618\
 Data File : VX003233.D
 Acq On : 07 Jul 2018 00:40
 Operator : JC/MD
 Sample : J3878-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2

Quant Time: Jul 07 01:06:13 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	286253	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	390705	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	350500	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	194021	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	174072	44.00	ug/l	0.00
Spiked Amount			Recovery	=	88.00%	
35) Dibromofluoromethane	5.51	113	151130	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	
50) Toluene-d8	8.72	98	519915	46.02	ug/l	0.00
Spiked Amount			Recovery	=	92.04%	
62) 4-Bromofluorobenzene	11.14	95	179638	41.23	ug/l	0.00
Spiked Amount			Recovery	=	82.46%	

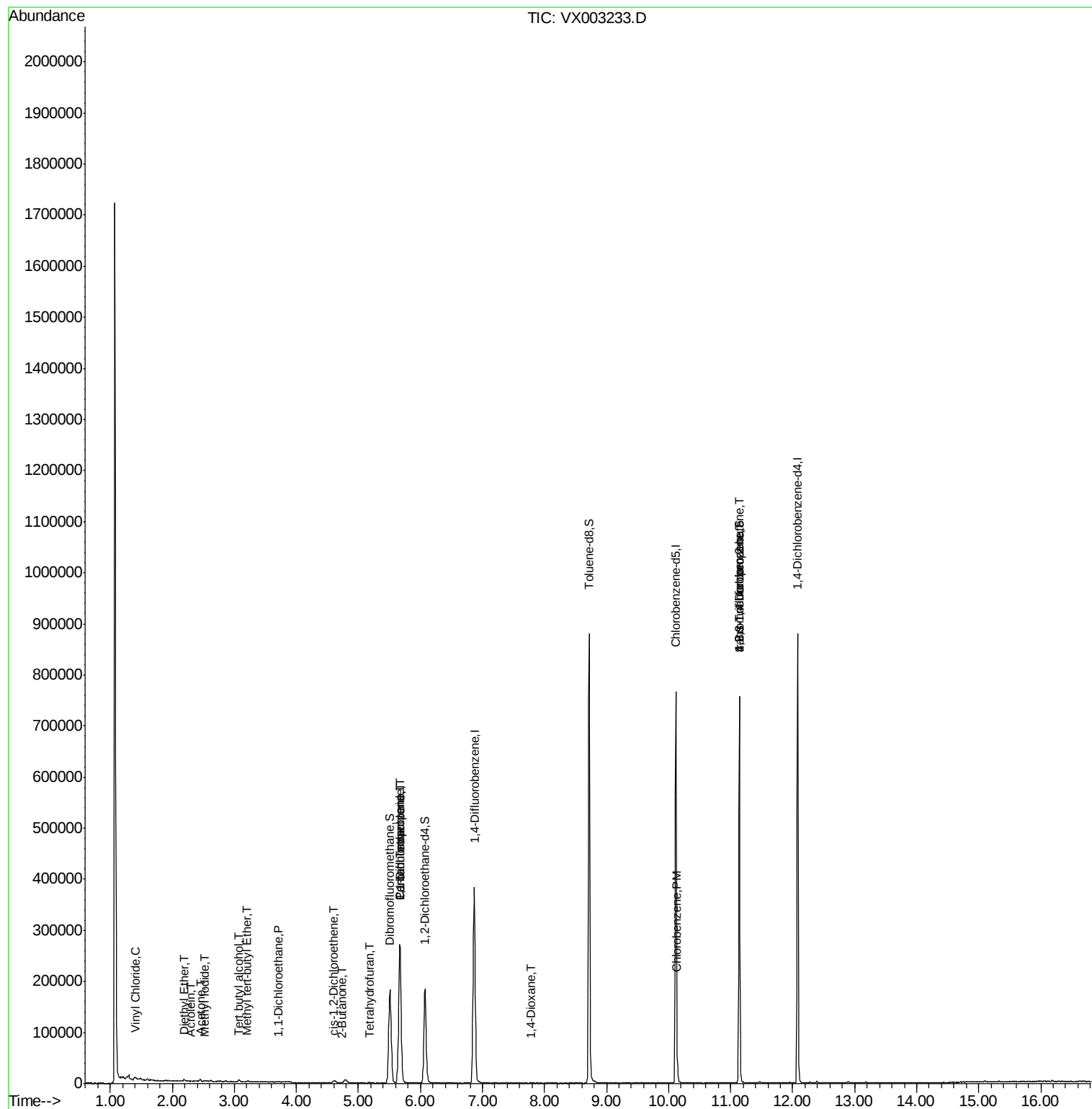
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	217	Below Cal	#	43
3) Chloromethane	1.33	50	737	Below Cal		92
4) Vinyl Chloride	1.40	62	871	0.27	ug/l #	1
5) Bromomethane	1.65	94	1761	Below Cal	#	79
6) Chloroethane	1.73	64	387	Below Cal	#	75
8) Diethyl Ether	2.19	74	1450	0.73	ug/l	83
10) Methyl Iodide	2.51	142	1760	6.71	ug/l	93
11) Tert butyl alcohol	3.08	59	4057	5.15	ug/l #	90
13) Acrolein	2.29	56	56	4.36	ug/l #	14
16) Acetone	2.45	43	4832	2.95	ug/l	99
19) Methyl tert-butyl Ether	3.21	73	2821	0.28	ug/l	96
24) 1,1-Dichloroethane	3.70	63	1373	0.24	ug/l #	85
25) 2-Butanone	4.72	43	689	0.28	ug/l #	78
27) cis-1,2-Dichloroethene	4.60	96	2309	0.67	ug/l #	1
29) Tetrahydrofuran	5.18	42	1864	1.20	ug/l #	83
36) 1,1-Dichloropropene	5.67	75	17879	4.17	ug/l #	51
38) Carbon Tetrachloride	5.67	117	24417	5.19	ug/l #	16
49) 1,4-Dioxane	7.77	88	334	4.31	ug/l #	68
65) Chlorobenzene	10.14	112	9987	1.12	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	90097	25.64	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	90097	72.74	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: VX003233.D

Acq: 07 Jul 2018 00:40

Instrument :

MSVOA_X

ClientSampleId :

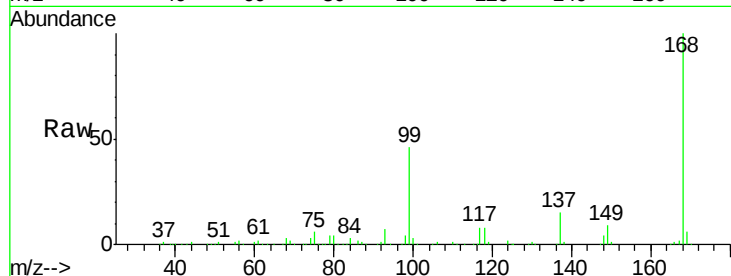
MW-2

Tot Ion:168 Resp: 286253

Ion Ratio Lower Upper

168 100

99 46.0 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

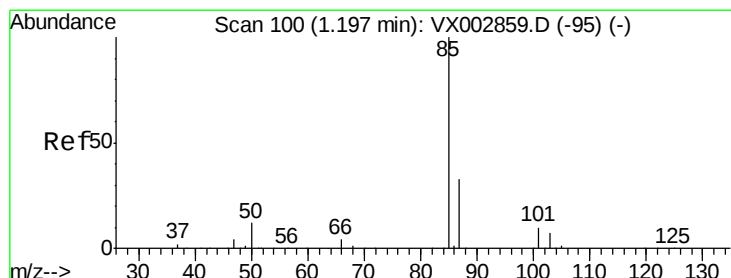
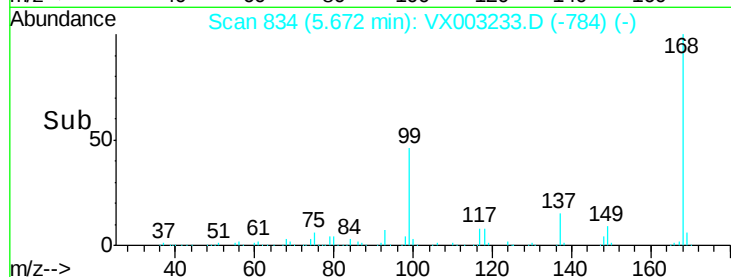
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003233.D

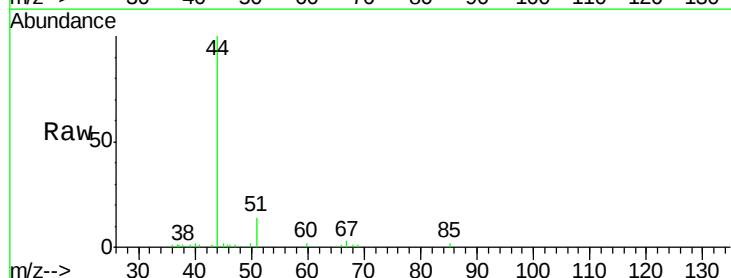
Acq: 07 Jul 2018 00:40

Tgt Ion: 85 Resp: 217

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

1.20

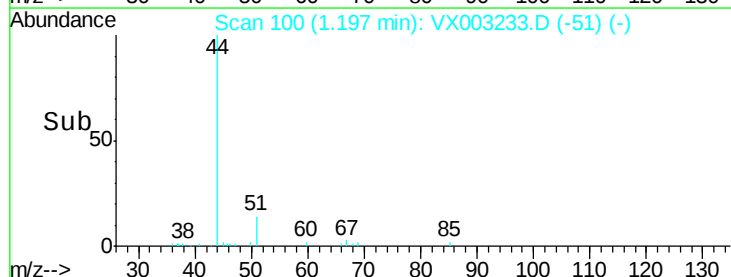
150

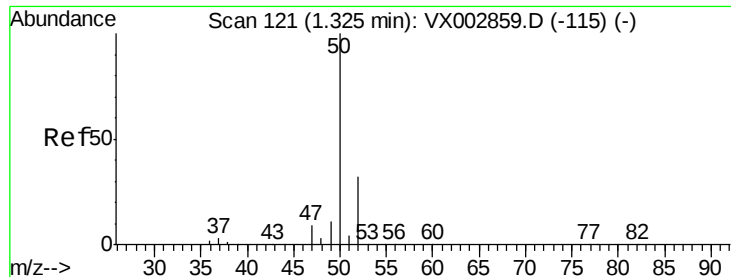
100

50

0

Time--> 1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX003233.D

Acq: 07 Jul 2018 00:40

Instrument :

MSVOA_X

ClientSampled :

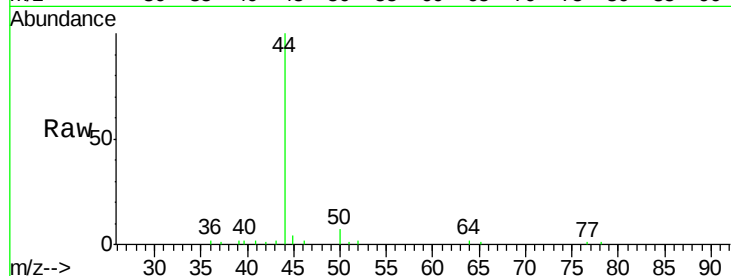
MW-2

Tot Ion: 50 Resp: 737

Ion Ratio Lower Upper

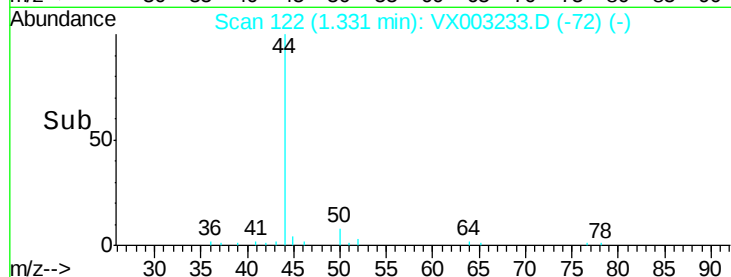
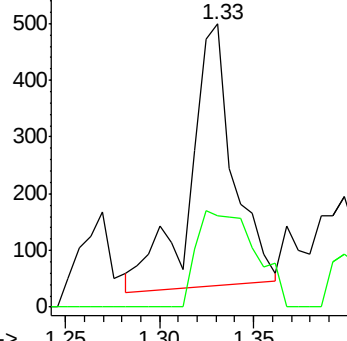
50 100

52 36.8 25.7 38.5

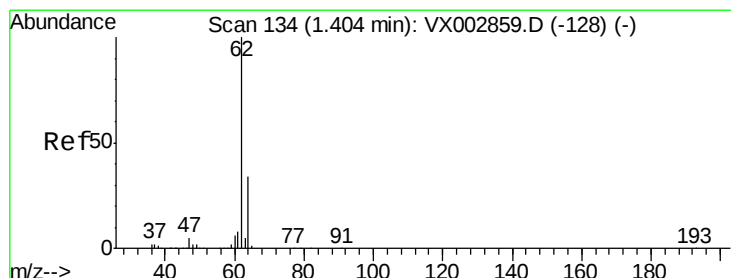


Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



Time-->



#4

Vinyl Chloride

Concen: 0.27 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX003233.D

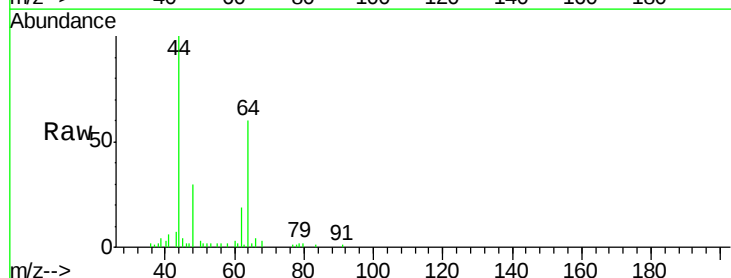
Acq: 07 Jul 2018 00:40

Tgt Ion: 62 Resp: 871

Ion Ratio Lower Upper

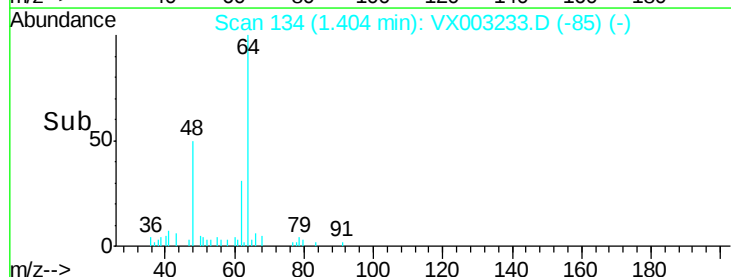
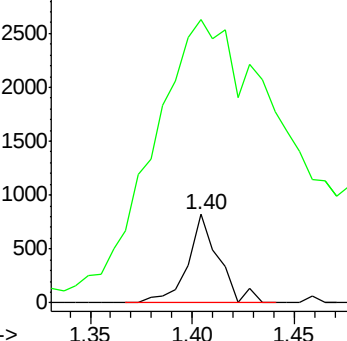
62 100

64 237.4 25.4 38.2#

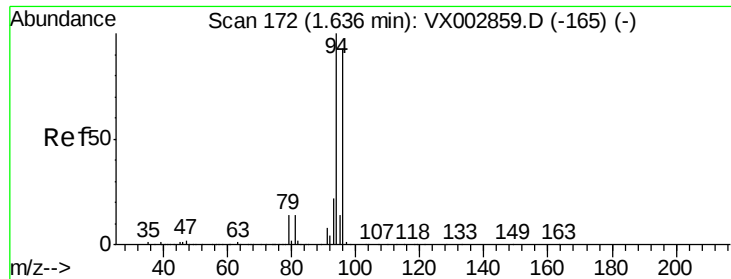


Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003233.D

Acq: 07 Jul 2018 00:40

Instrument :

MSVOA_X

ClientSampleId :

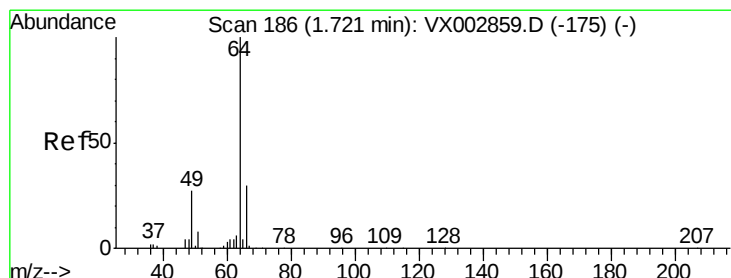
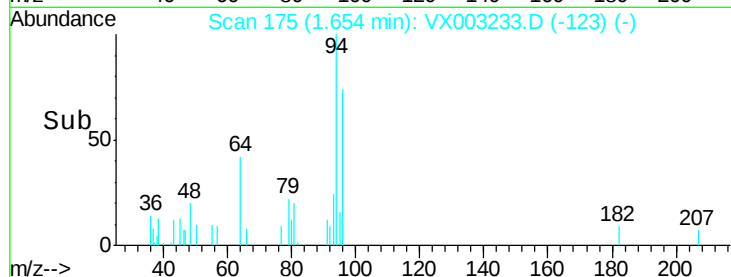
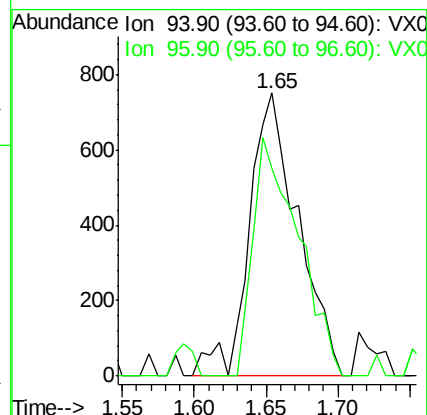
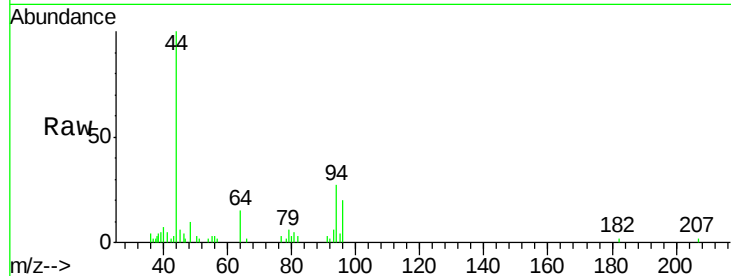
MW-2

Tot Ion: 94 Resp: 1761

Ion Ratio Lower Upper

94 100

96 73.5 74.9 112.3#



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX003233.D

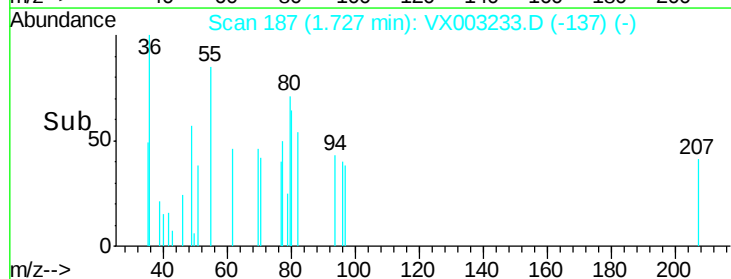
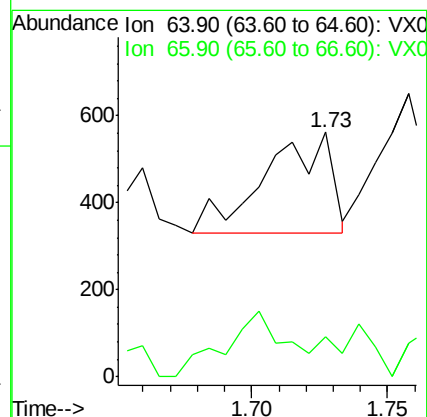
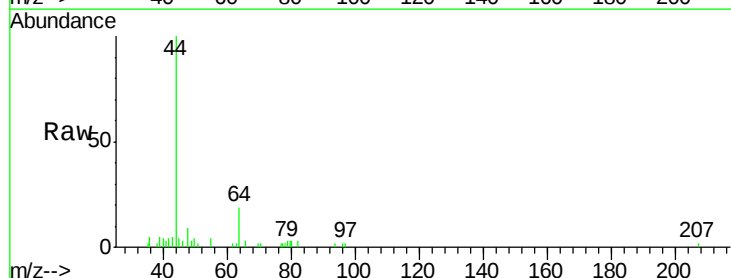
Acq: 07 Jul 2018 00:40

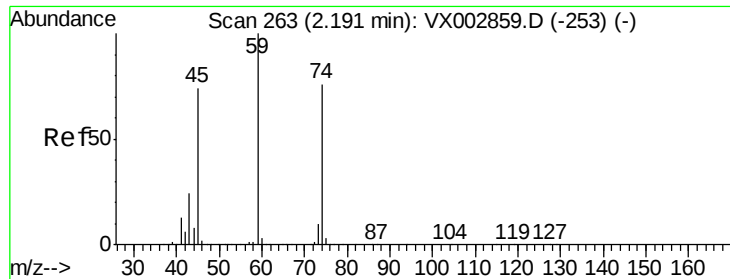
Tgt Ion: 64 Resp: 387

Ion Ratio Lower Upper

64 100

66 18.2 25.5 38.3#





#8

Diethyl Ether

Concen: 0.73 ug/l

RT: 2.19 min Scan# 263

Delta R.T. -0.00 min

Lab File: VX003233.D

Acq: 07 Jul 2018 00:40

Instrument :

MSVOA_X

ClientSampled :

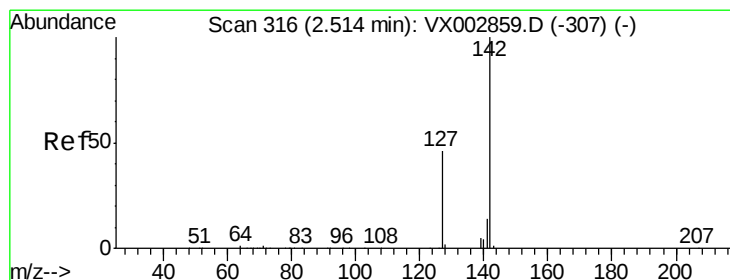
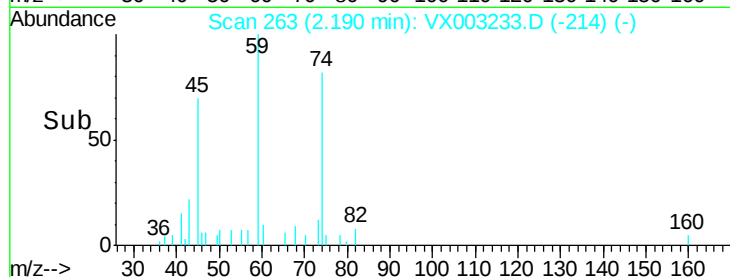
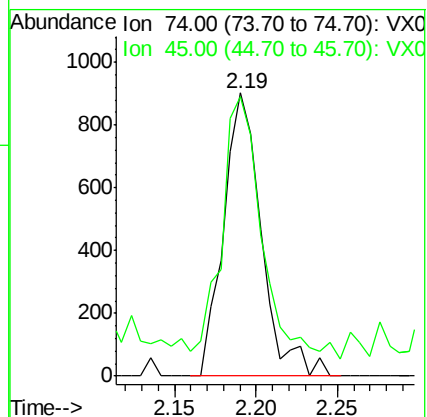
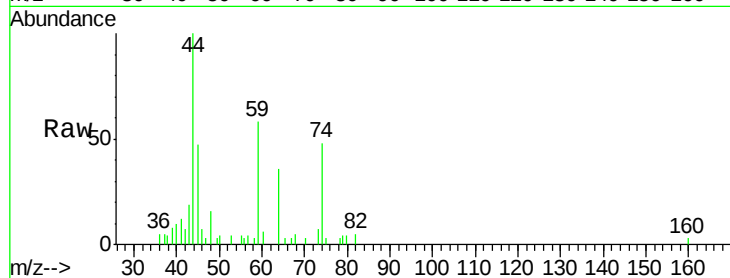
MW-2

Tot Ion: 74 Resp: 1450

Ion Ratio Lower Upper

74 100

45 88.8 53.1 159.4



#10

Methyl Iodide

Concen: 6.71 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX003233.D

Acq: 07 Jul 2018 00:40

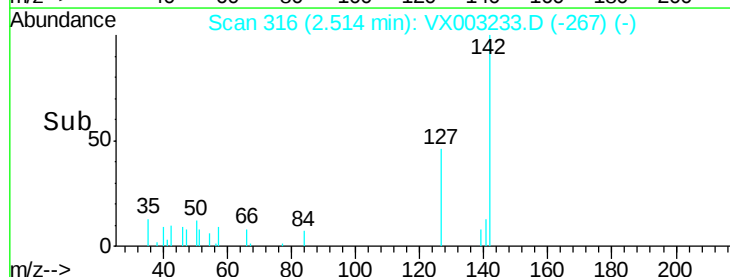
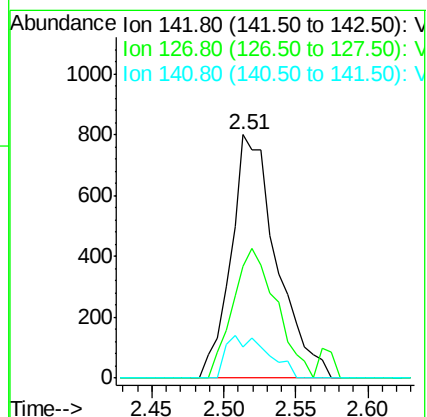
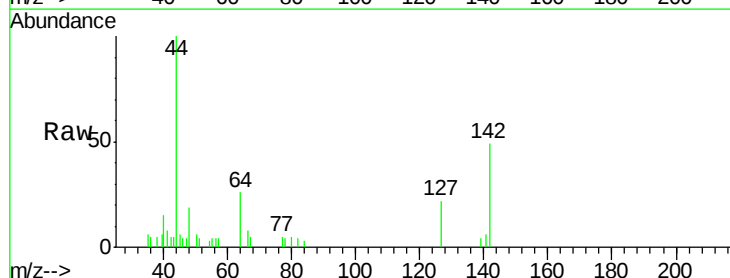
Tgt Ion: 142 Resp: 1760

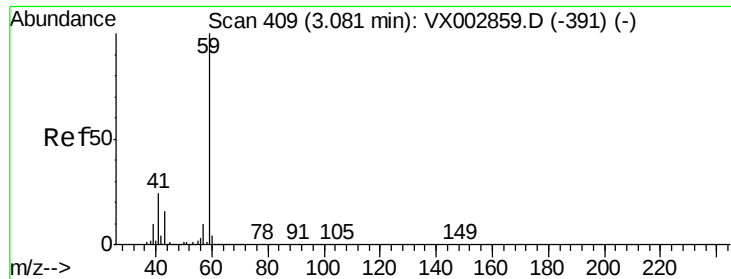
Ion Ratio Lower Upper

142 100

127 51.0 36.6 55.0

141 16.0 11.3 16.9



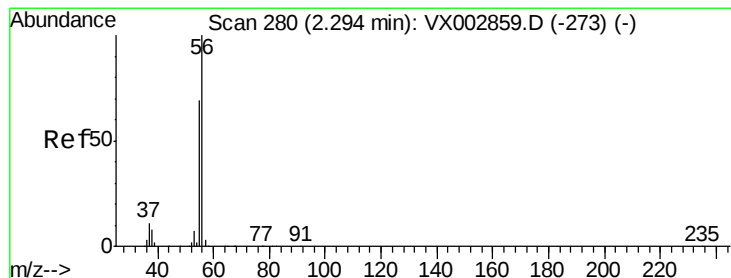
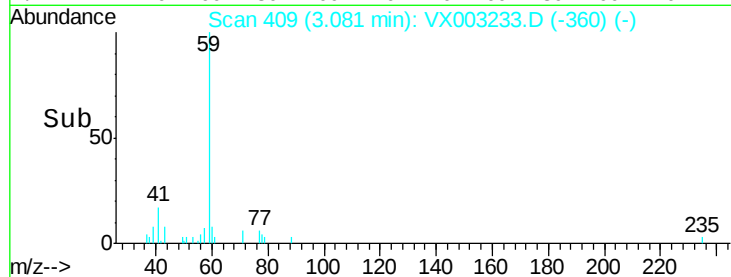
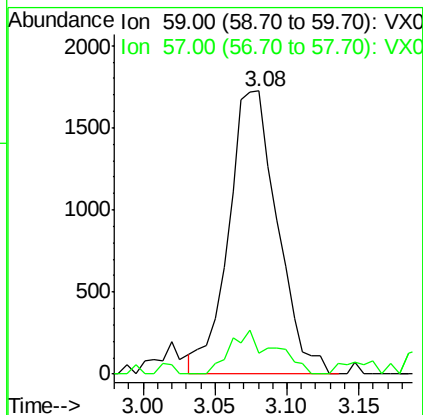
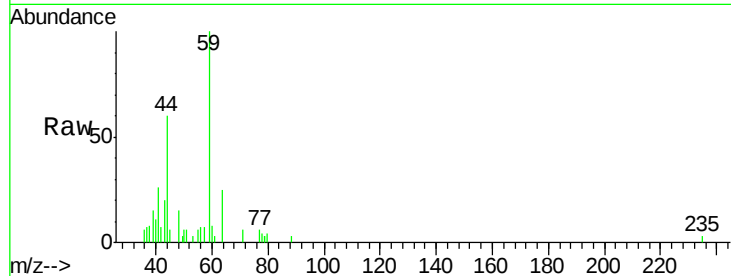


#11

Tert butyl alcohol
 Concen: 5.15 ug/l
 RT: 3.08 min Scan# 409
 Delta R.T. -0.00 min
 Lab File: VX003233.D
 Acq: 07 Jul 2018 00:40

Instrument :
 MSVOA_X
 ClientSampled :
 MW-2

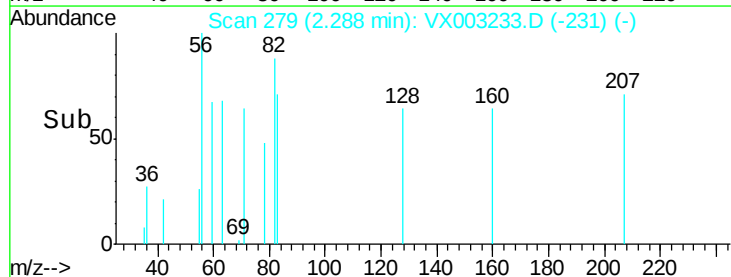
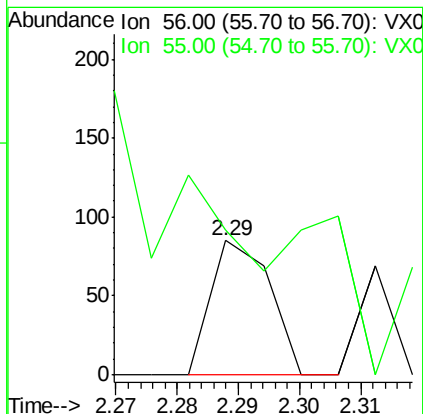
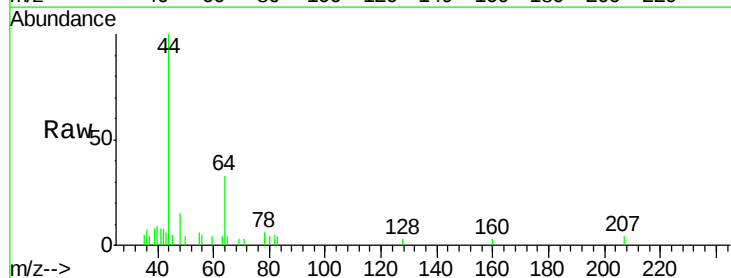
Tot Ion: 59 Resp: 4057
 Ion Ratio Lower Upper
 59 100
 57 14.1 8.2 12.2#

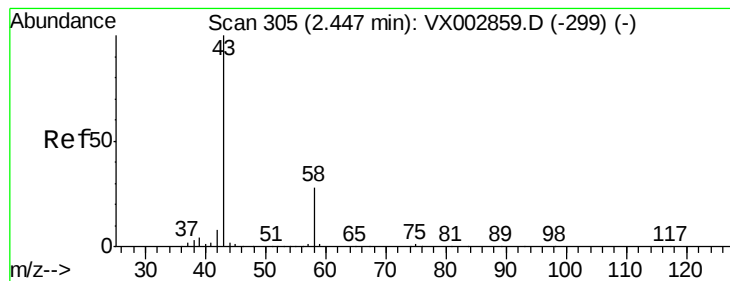


#13

Acrolein
 Concen: 4.36 ug/l
 RT: 2.29 min Scan# 279
 Delta R.T. -0.01 min
 Lab File: VX003233.D
 Acq: 07 Jul 2018 00:40

Tgt Ion: 56 Resp: 56
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.0 85.4#





#16

Acetone

Concen: 2.95 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003233.D

Acq: 07 Jul 2018 00:40

Instrument :

MSVOA_X

ClientSampled :

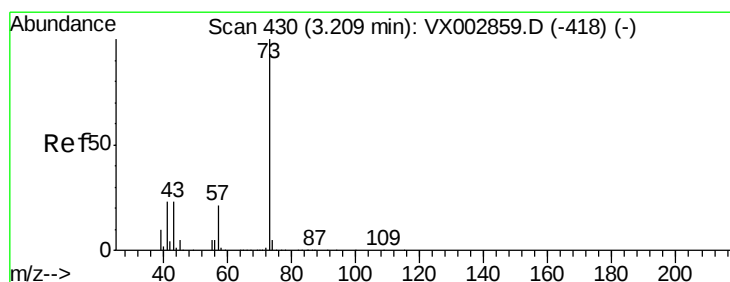
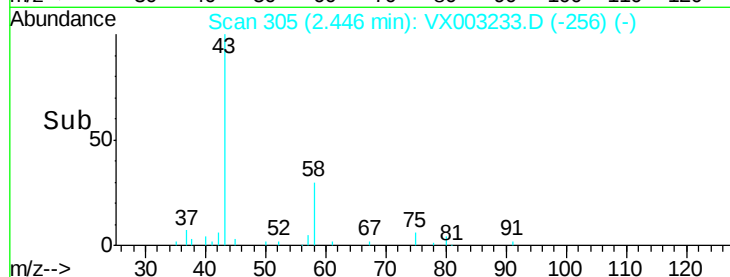
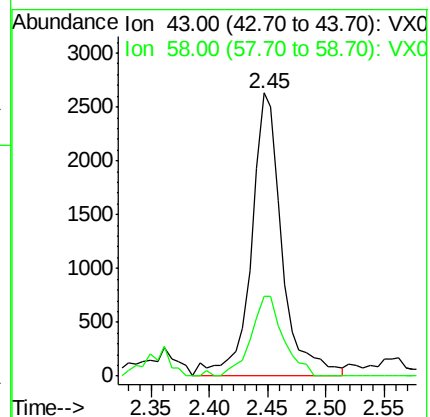
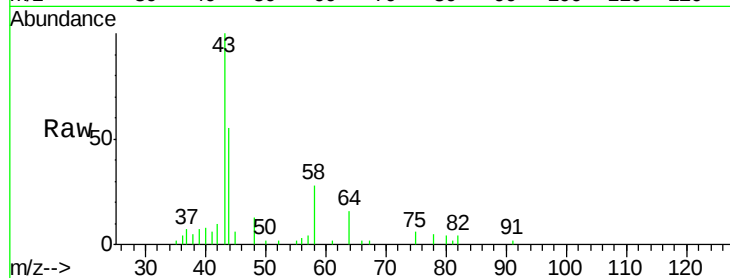
MW-2

Tot Ion: 43 Resp: 4832

Ion Ratio Lower Upper

43 100

58 28.1 22.1 33.1



#19

Methyl tert-butyl Ether

Concen: 0.28 ug/l

RT: 3.21 min Scan# 430

Delta R.T. -0.00 min

Lab File: VX003233.D

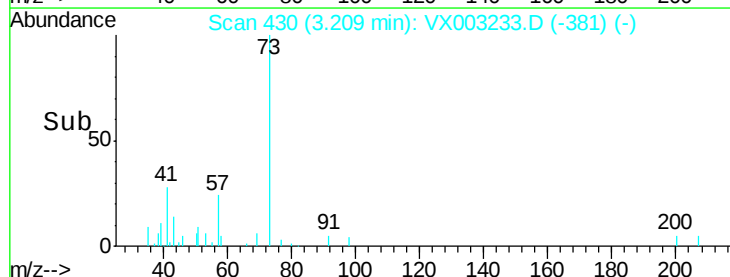
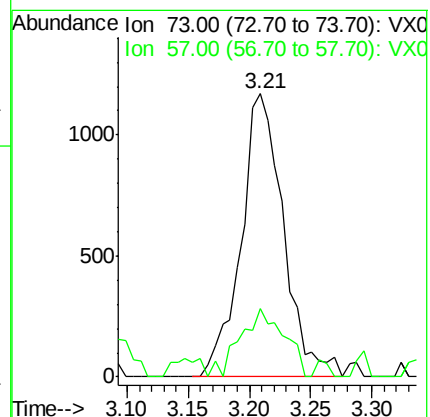
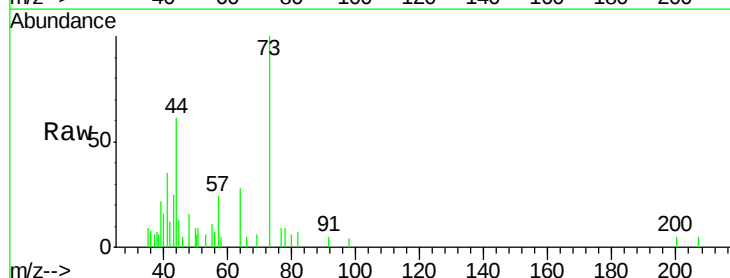
Acq: 07 Jul 2018 00:40

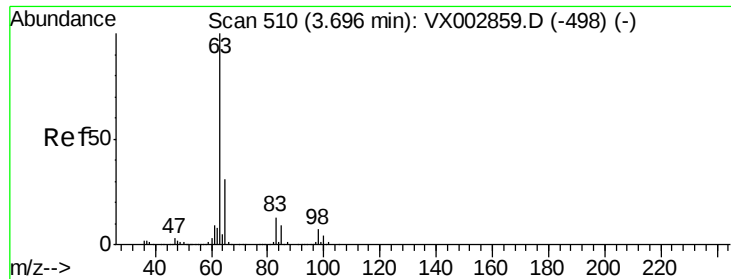
Tgt Ion: 73 Resp: 2821

Ion Ratio Lower Upper

73 100

57 24.2 17.7 26.5





#24

1,1-Dichloroethane

Concen: 0.24 ug/l

RT: 3.70 min Scan# 510

Delta R.T. -0.00 min

Lab File: VX003233.D

Acq: 07 Jul 2018 00:40

Instrument :

MSVOA_X

ClientSampleId :

MW-2

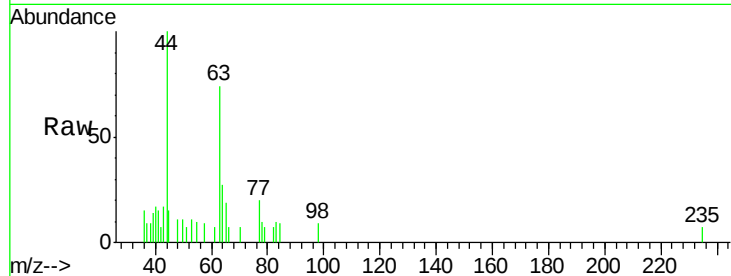
Tot Ion: 63 Resp: 1373

Ion Ratio Lower Upper

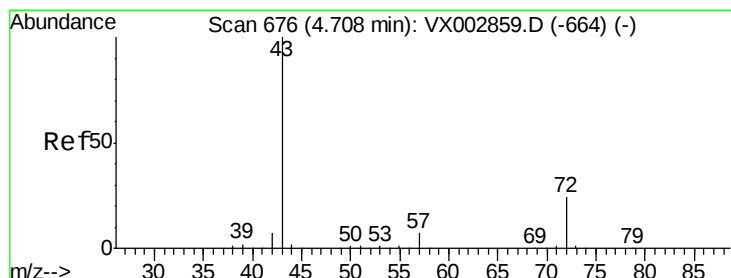
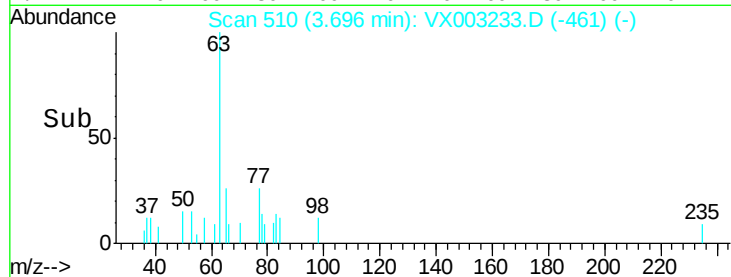
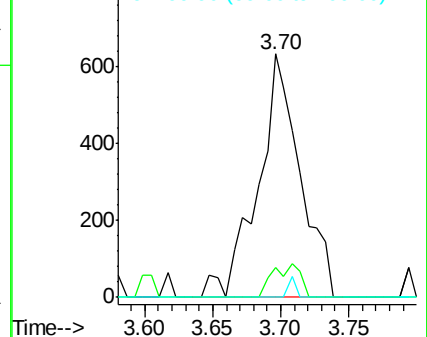
63 100

98 12.5 3.4 10.2#

100 0.0 2.0 6.0#



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



#25

2-Butanone

Concen: 0.28 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX003233.D

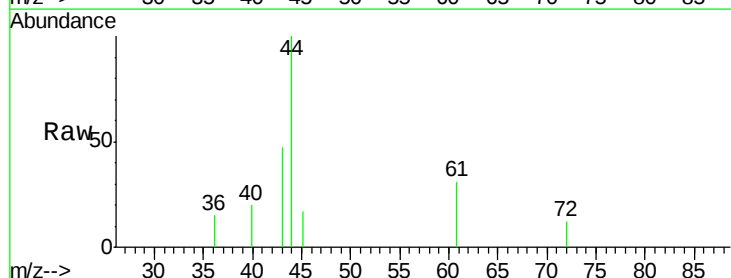
Acq: 07 Jul 2018 00:40

Tgt Ion: 43 Resp: 689

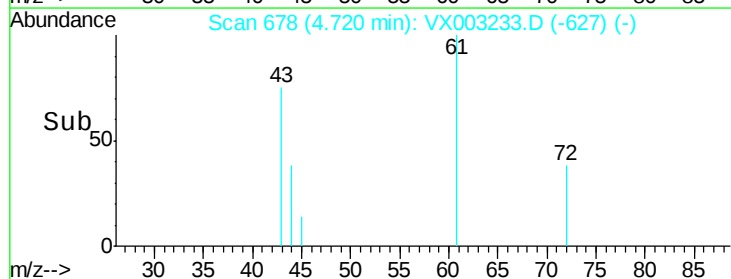
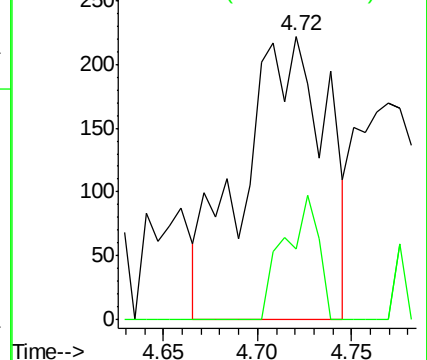
Ion Ratio Lower Upper

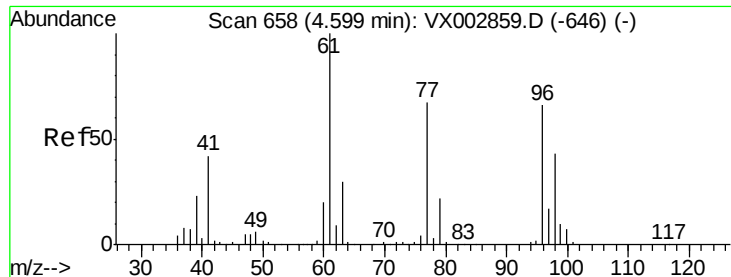
43 100

72 33.7 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#27

cis-1,2-Dichloroethene

Concen: 0.67 ug/l

RT: 4.60 min Scan# 658

Delta R.T. -0.00 min

Lab File: VX003233.D

Acq: 07 Jul 2018 00:40

Instrument :

MSVOA_X

ClientSampled :

MW-2

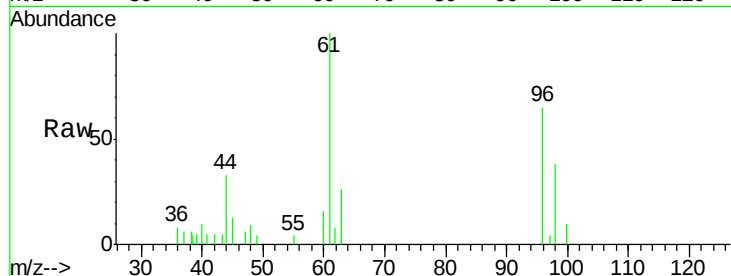
Tot Ion: 96 Resp: 2309

Ion Ratio Lower Upper

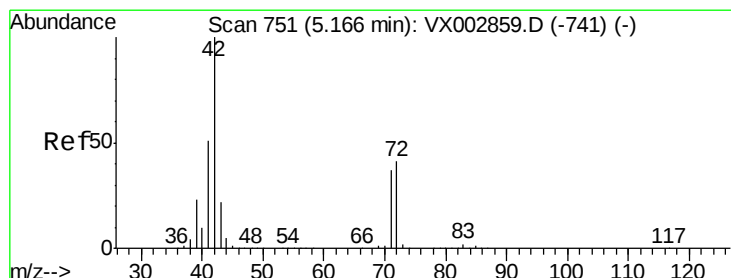
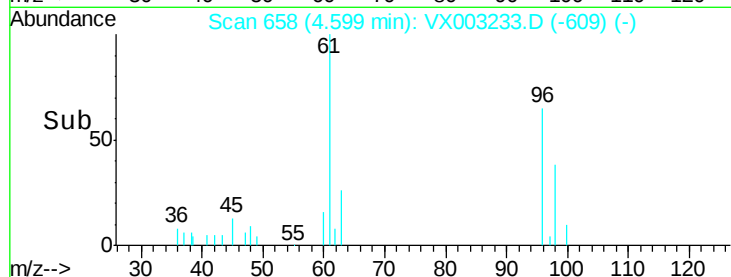
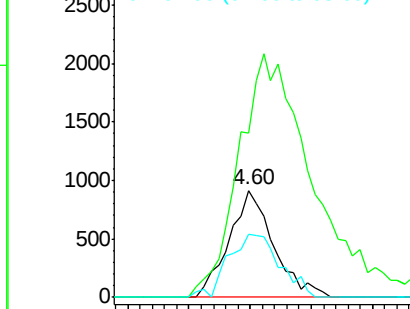
96 100

61 382.8 0.0 330.2#

98 69.0 0.0 130.2



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#29

Tetrahydrofuran

Concen: 1.20 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.02 min

Lab File: VX003233.D

Acq: 07 Jul 2018 00:40

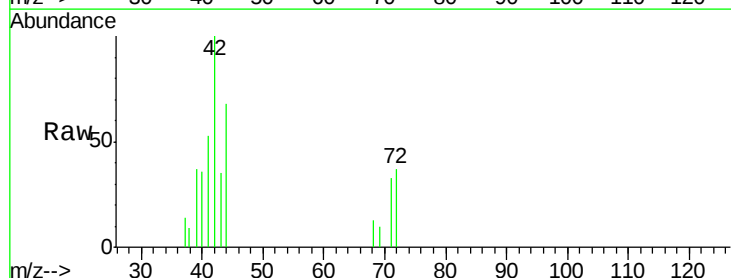
Tgt Ion: 42 Resp: 1864

Ion Ratio Lower Upper

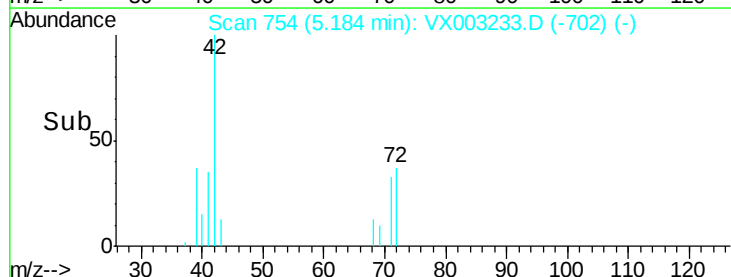
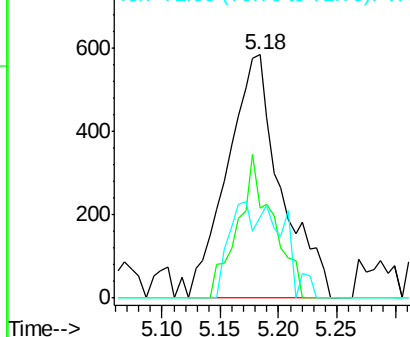
42 100

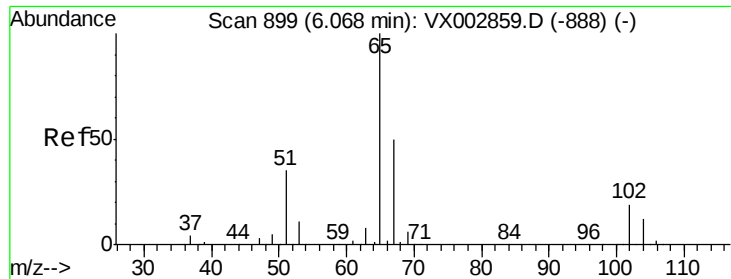
72 38.8 32.0 48.0

71 17.8 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: 44.00 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003233.D

Acq: 07 Jul 2018 00:40

Instrument :

MSVOA_X

ClientSampleId :

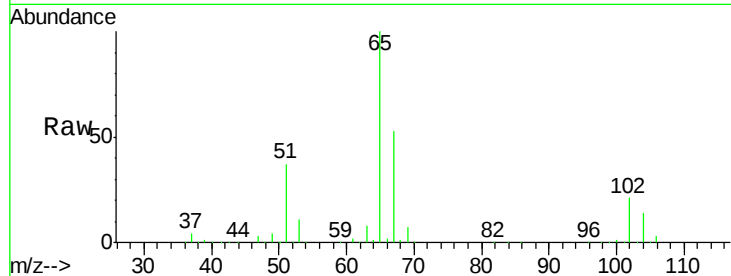
MW-2

Tot Ion: 65 Resp: 174072

Ion Ratio Lower Upper

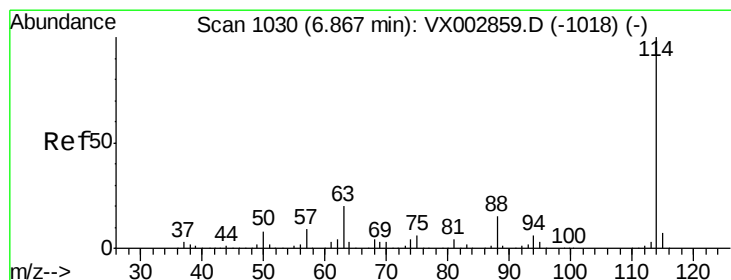
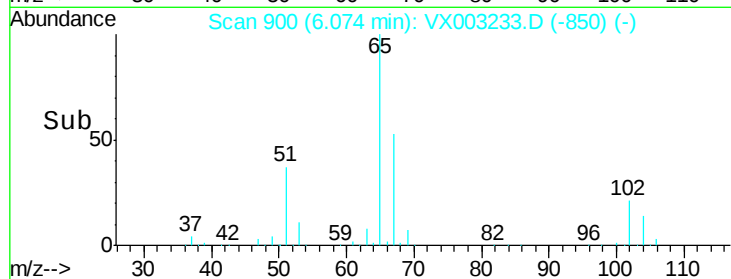
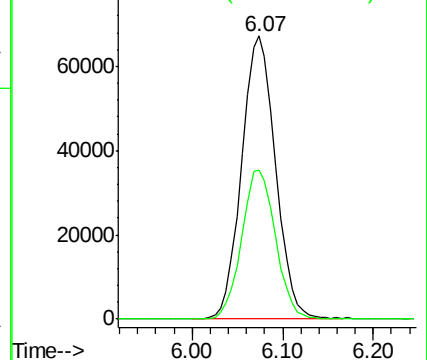
65 100

67 52.8 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX003233.D

Acq: 07 Jul 2018 00:40

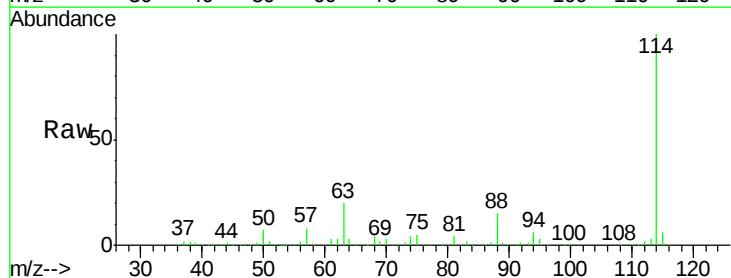
Tgt Ion: 114 Resp: 390705

Ion Ratio Lower Upper

114 100

63 19.5 0.0 41.4

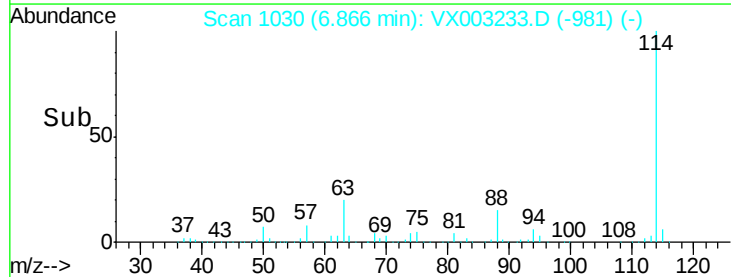
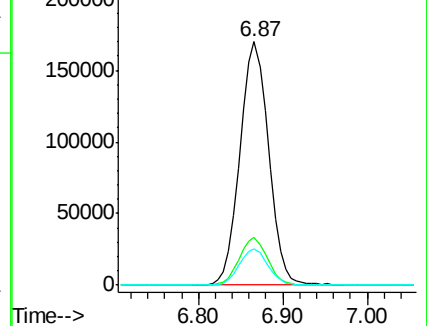
88 14.9 0.0 30.0

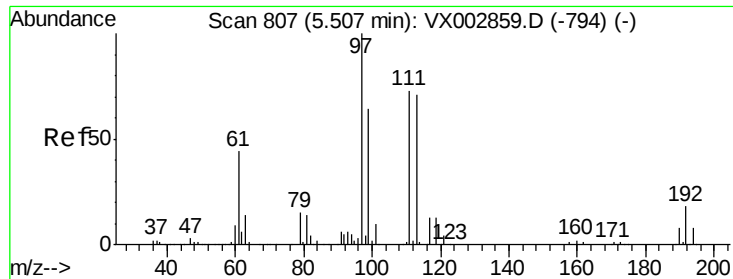


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.85 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX003233.D

Acq: 07 Jul 2018 00:40

Instrument :

MSVOA_X

ClientSampleId :

MW-2

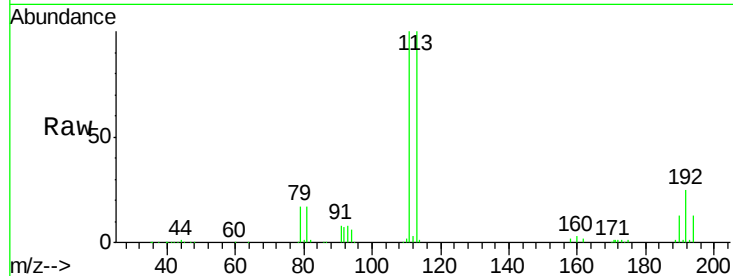
Tot Ion:113 Resp: 151130

Ion Ratio Lower Upper

113 100

111 102.5 81.4 122.0

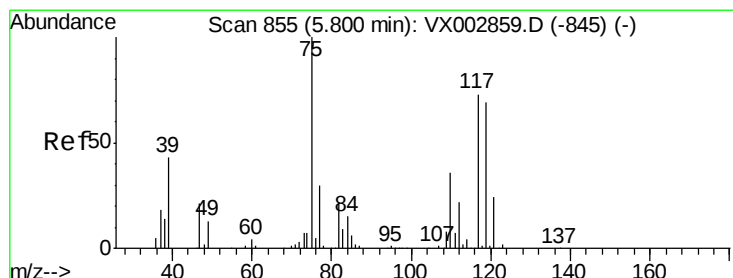
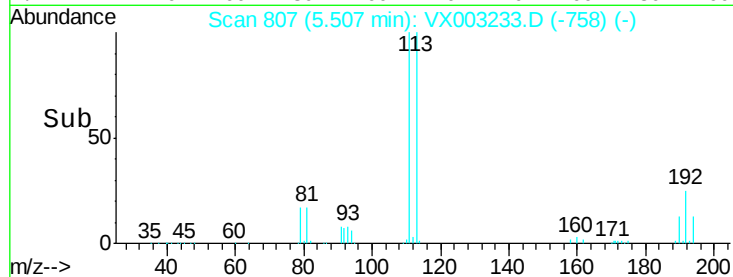
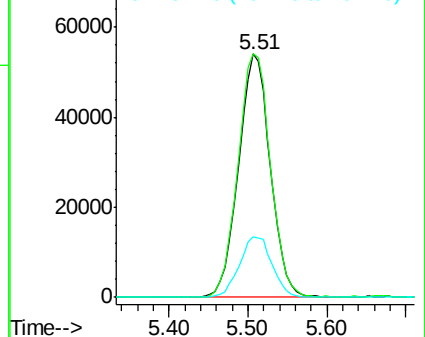
192 25.6 19.1 28.7



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: 4.17 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003233.D

Acq: 07 Jul 2018 00:40

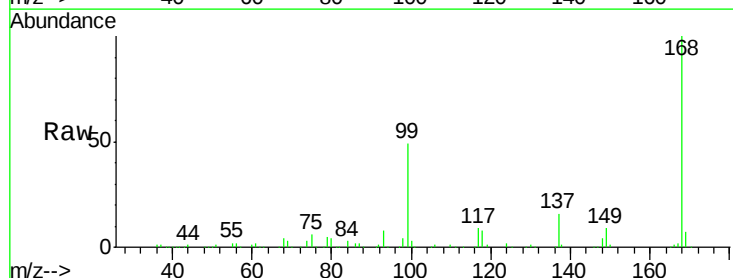
Tgt Ion: 75 Resp: 17879

Ion Ratio Lower Upper

75 100

110 10.5 18.1 54.4#

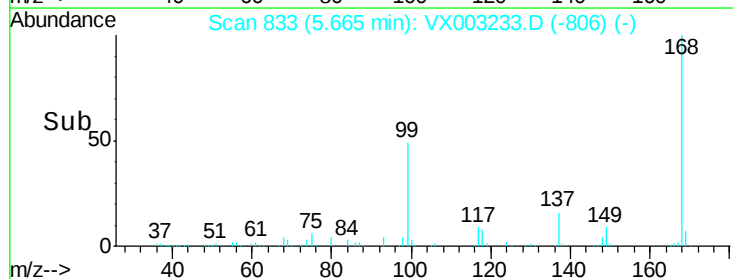
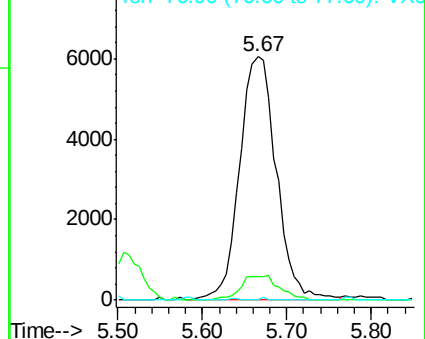
77 0.1 24.3 36.5#

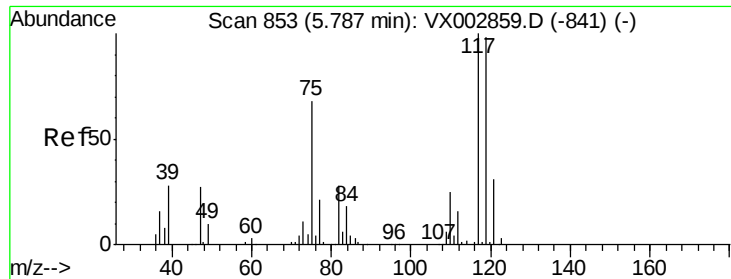


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.19 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003233.D

Acq: 07 Jul 2018 00:40

Instrument :

MSVOA_X

ClientSampled :

MW-2

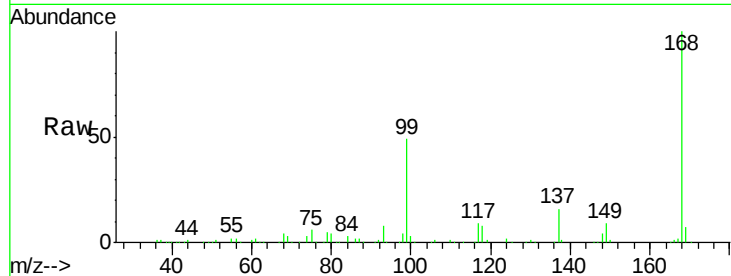
Tot Ion:117 Resp: 24417

Ion Ratio Lower Upper

117 100

119 5.5 77.4 116.0#

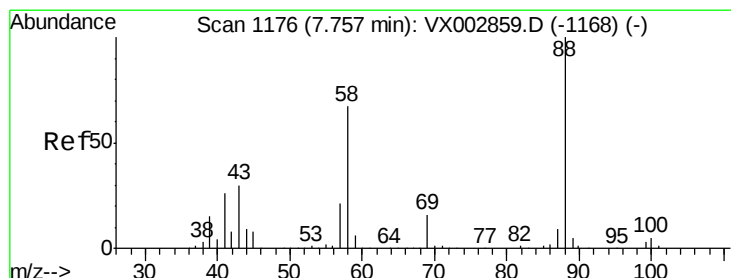
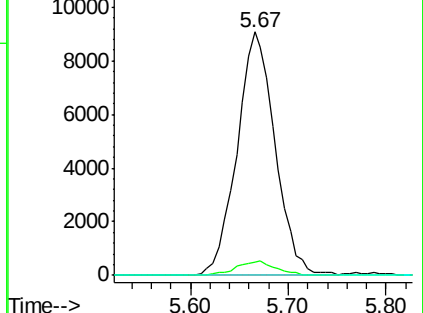
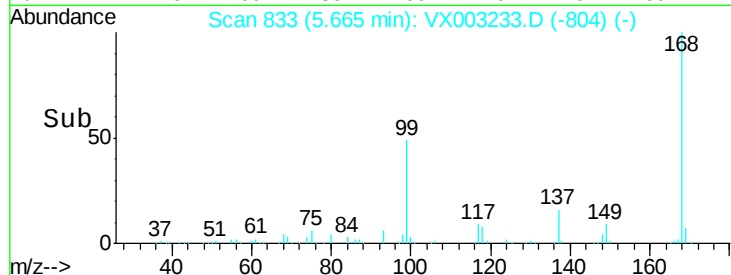
121 0.0 24.4 36.6#



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: 4.31 ug/l

RT: 7.77 min Scan# 1179

Delta R.T. 0.02 min

Lab File: VX003233.D

Acq: 07 Jul 2018 00:40

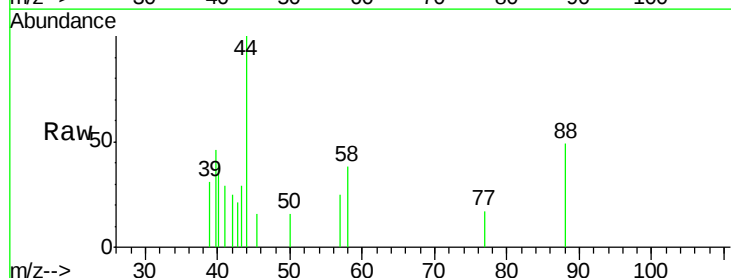
Tgt Ion: 88 Resp: 334

Ion Ratio Lower Upper

88 100

43 80.5 29.8 44.6#

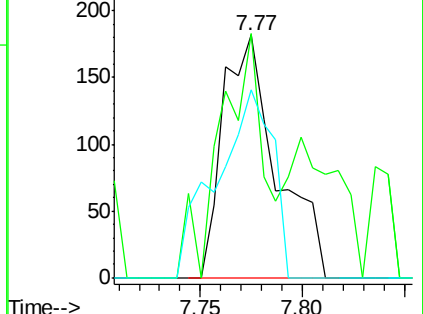
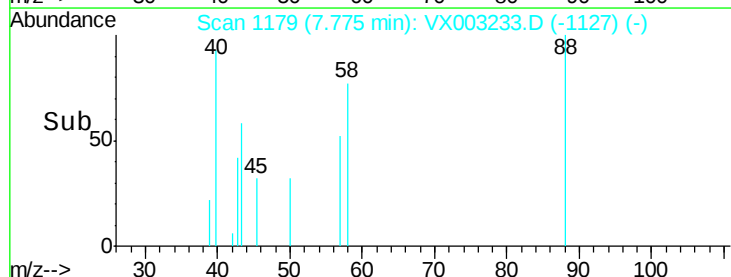
58 80.8 57.1 85.7

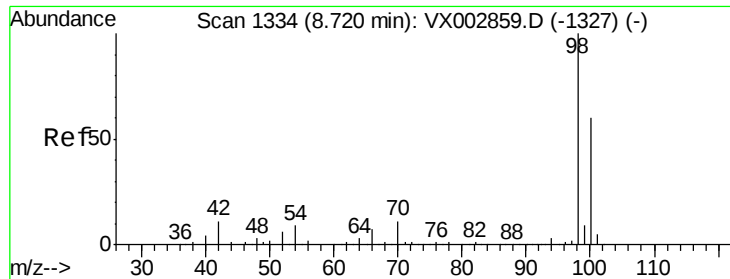


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 46.02 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003233.D

Acq: 07 Jul 2018 00:40

Instrument :

MSVOA_X

ClientSampleId :

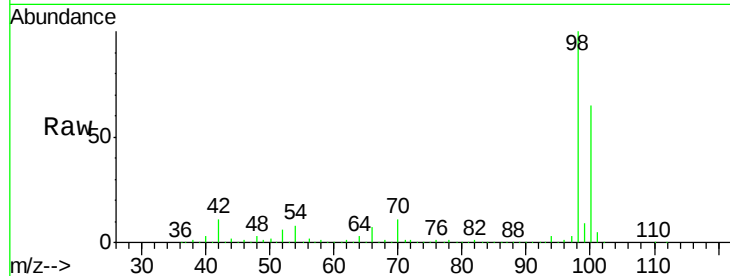
MW-2

Tot Ion: 98 Resp: 519915

Ion Ratio Lower Upper

98 100

100 64.3 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.72

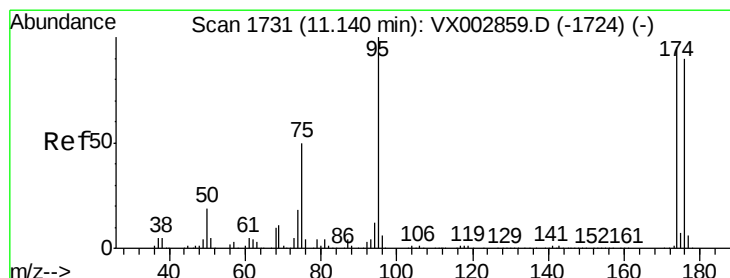
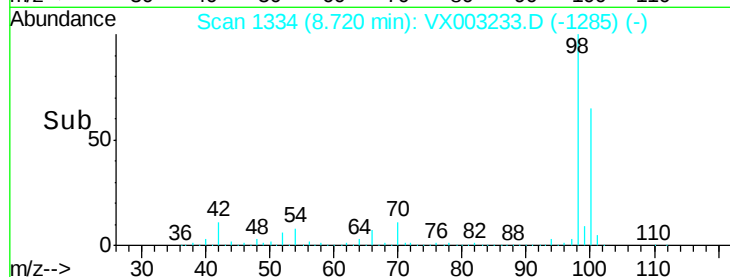
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 41.23 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003233.D

Acq: 07 Jul 2018 00:40

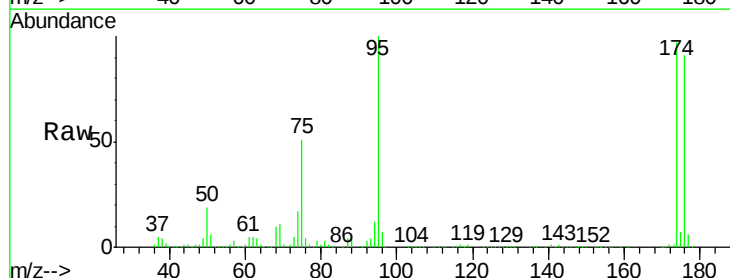
Tgt Ion: 95 Resp: 179638

Ion Ratio Lower Upper

95 100

174 100.8 0.0 187.4

176 95.9 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

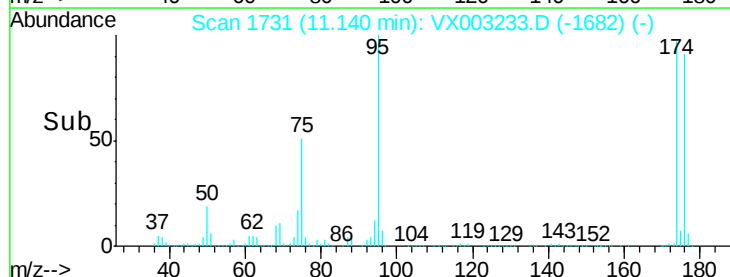
150000

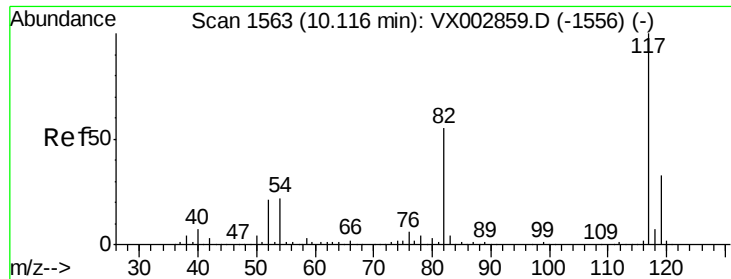
100000

50000

0

Time-->

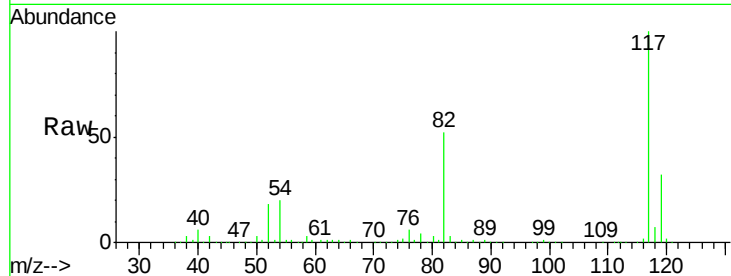




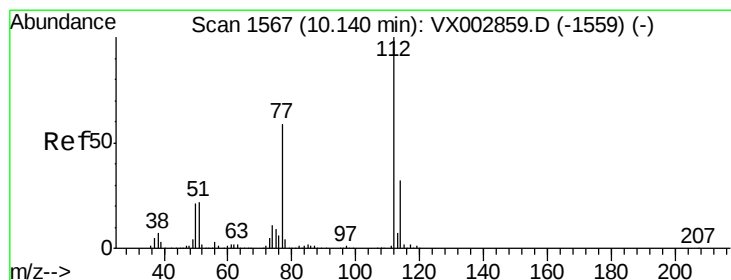
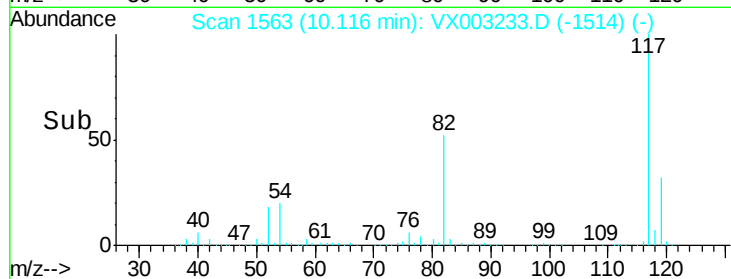
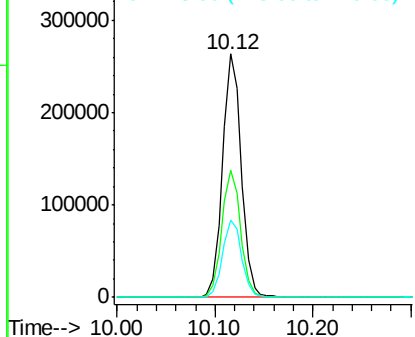
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003233.D
Acq: 07 Jul 2018 00:40

Instrument :
MSVOA_X
ClientSampled :
MW-2

Tot Ion:117 Resp: 350500
Ion Ratio Lower Upper
117 100
82 52.4 45.0 67.4
119 31.6 25.8 38.6

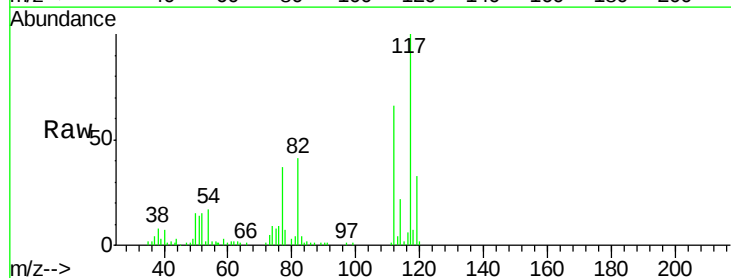


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

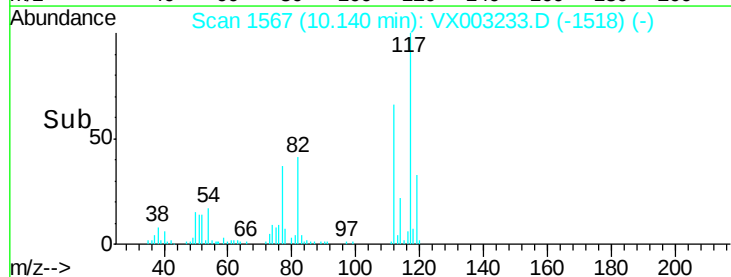
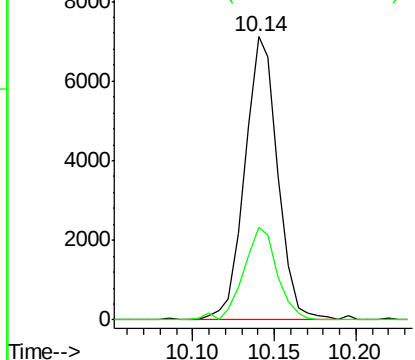


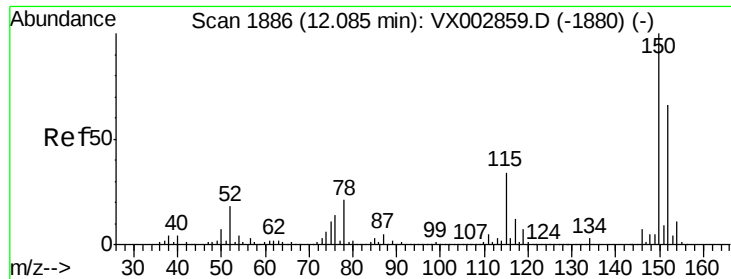
#65
Chlorobenzene
Concen: 1.12 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX003233.D
Acq: 07 Jul 2018 00:40

Tgt Ion:112 Resp: 9987
Ion Ratio Lower Upper
112 100
114 32.9 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): 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: VX003233.D

Acq: 07 Jul 2018 00:40

Instrument :

MSVOA_X

ClientSampled :

MW-2

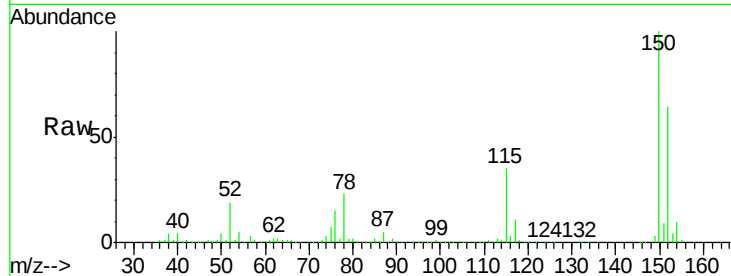
Tot Ion:152 Resp: 194021

Ion Ratio Lower Upper

152 100

115 53.4 40.1 120.2

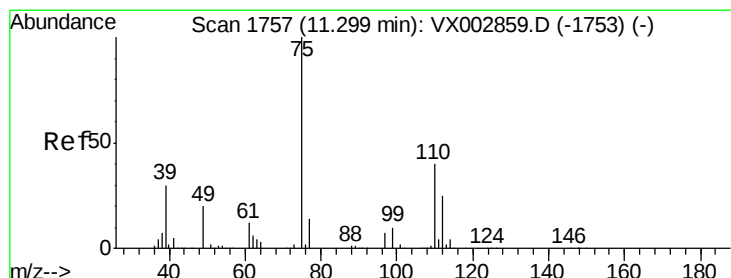
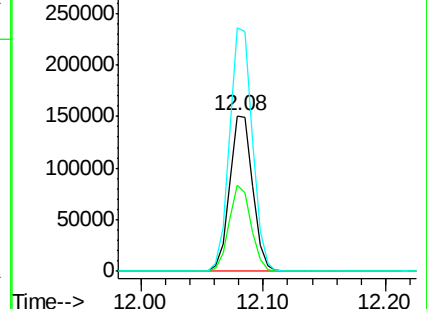
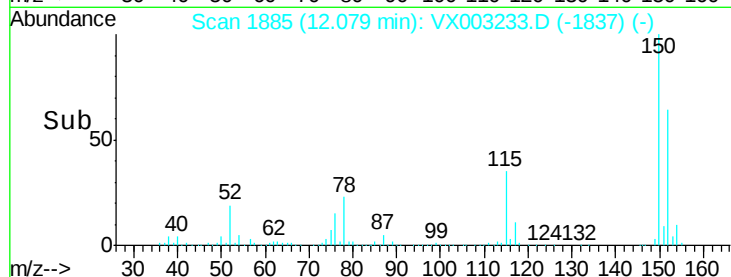
150 156.1 0.0 347.2



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: 25.64 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003233.D

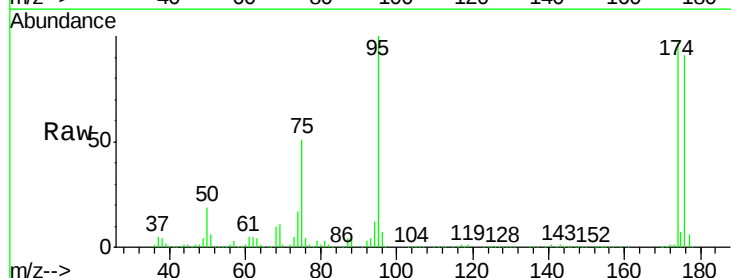
Acq: 07 Jul 2018 00:40

Tgt Ion: 75 Resp: 90097

Ion Ratio Lower Upper

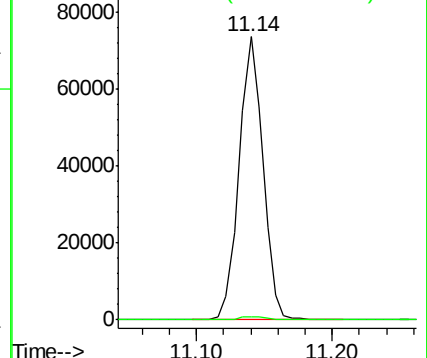
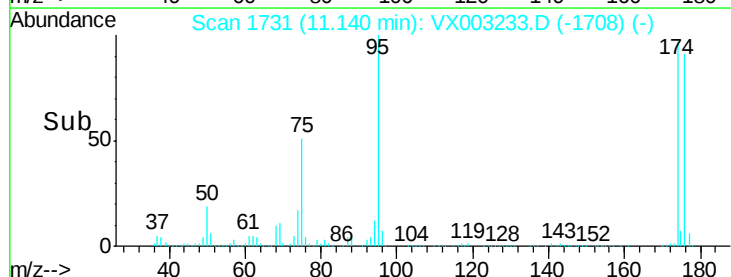
75 100

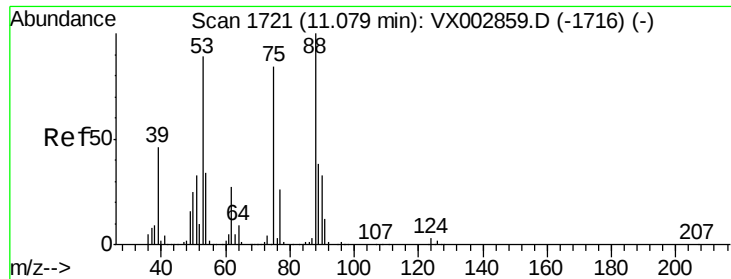
77 1.3 22.8 68.3#



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: 72.74 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003233.D

Acq: 07 Jul 2018 00:40

Instrument :

MSVOA_X

ClientSampleId :

MW-2

Tot Ion: 75 Resp: 90097

Ion Ratio Lower Upper

75 100

53 0.3 86.8 130.2#

89 0.0 38.2 57.2#

