

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061518\
 Data File : VX002614.D
 Acq On : 15 Jun 2018 23:15
 Operator : JC/MD
 Sample : J3467-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 C-MW-11-061118

Quant Time: Jun 16 03:50:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	199895	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	286342	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	267596	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	153737	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	138409	45.56	ug/l	0.00
Spiked Amount			Recovery	=	91.12%	
35) Dibromofluoromethane	5.51	113	103697	45.38	ug/l	0.00
Spiked Amount			Recovery	=	90.76%	
50) Toluene-d8	8.72	98	411403	47.41	ug/l	0.00
Spiked Amount			Recovery	=	94.82%	
62) 4-Bromofluorobenzene	11.14	95	143987	43.79	ug/l	0.00
Spiked Amount			Recovery	=	87.58%	

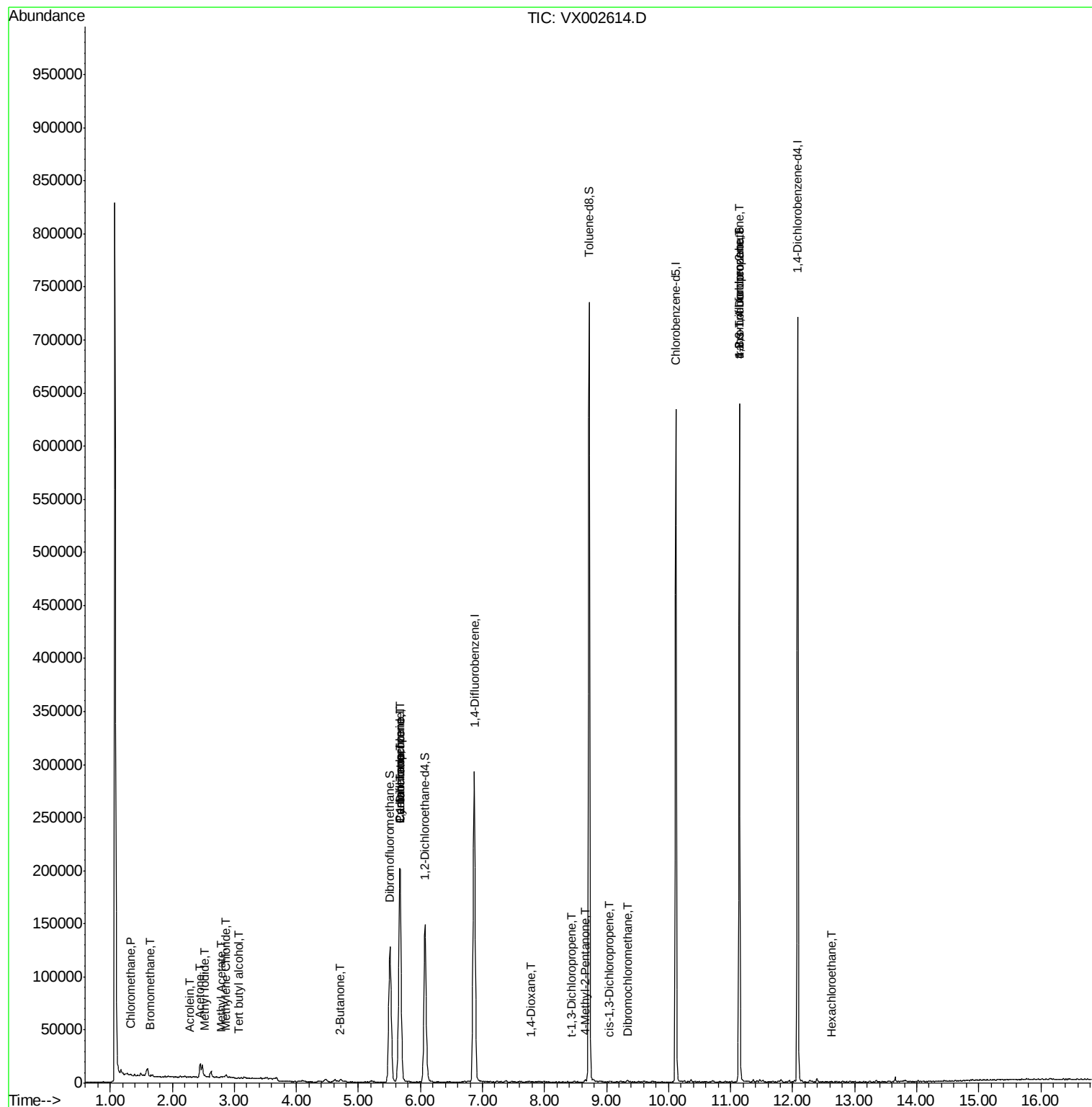
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	606	0.24	ug/l	94
5) Bromomethane	1.65	94	1187	0.75	ug/l	82
10) Methyl Iodide	2.52	142	1062	5.48	ug/l	94
11) Tert butyl alcohol	3.07	59	405	0.64	ug/l #	94
13) Acrolein	2.29	56	149	7.36	ug/l #	14
16) Acetone	2.45	43	14546	10.85	ug/l	97
18) Methyl Acetate	2.78	43	853	0.24	ug/l #	75
20) Methylene Chloride	2.86	84	933	0.34	ug/l	89
25) 2-Butanone	4.71	43	3654	2.08	ug/l	97
31) Cyclohexane	5.67	56	4770	1.33	ug/l #	17
36) 1,1-Dichloropropene	5.67	75	14132	4.65	ug/l #	51
38) Carbon Tetrachloride	5.67	117	18989	6.27	ug/l #	16
49) 1,4-Dioxane	7.78	88	20	0.36	ug/l #	1
51) 4-Methyl-2-Pentanone	8.66	43	1488	0.41	ug/l	95
53) t-1,3-Dichloropropene	8.44	75	71	2.41	ug/l #	43
54) cis-1,3-Dichloropropene	9.04	75	115	3.24	ug/l #	75
60) Dibromochloromethane	9.34	129	218	3.84	ug/l #	11
76) 1,2,3-Trichloropropane	11.14	75	78085	26.92	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	78085	83.10	ug/l #	7
90) Hexachloroethane	12.62	117	26	2.64	ug/l #	1

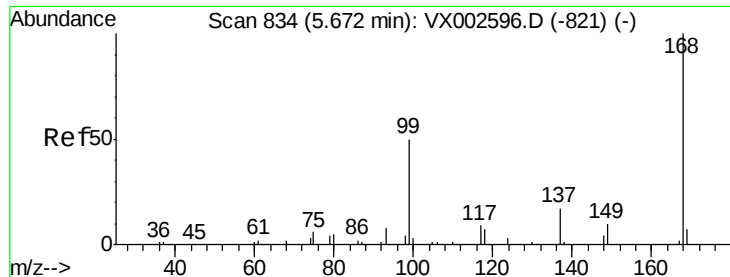
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:37:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX002614.D

Acq: 15 Jun 2018 23:15

Instrument :

MSVOA_X

ClientSampleId :

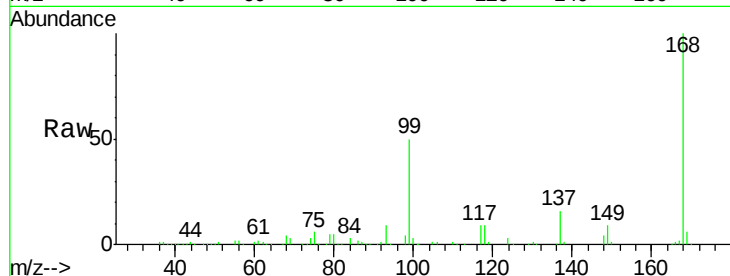
C-MW-11-061118

Tot Ion:168 Resp: 199895

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

80000

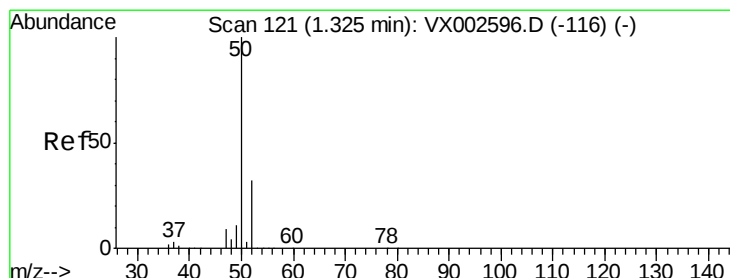
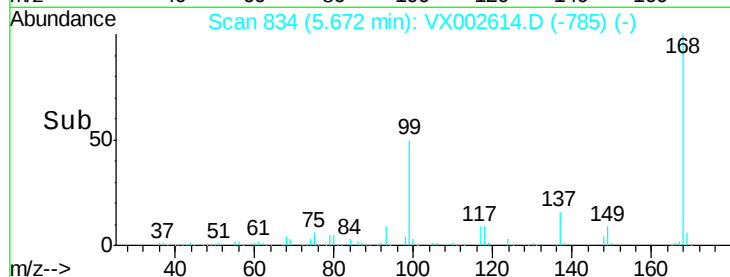
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.24 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002614.D

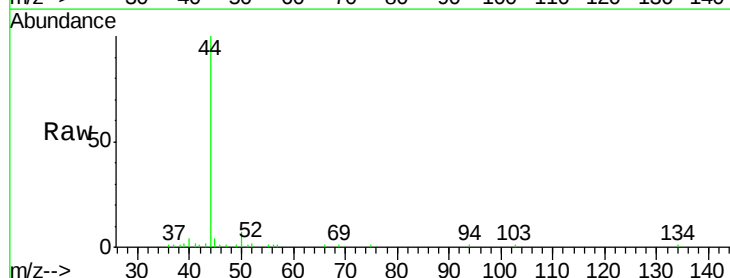
Acq: 15 Jun 2018 23:15

Tgt Ion: 50 Resp: 606

Ion Ratio Lower Upper

50 100

52 28.8 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

500

400

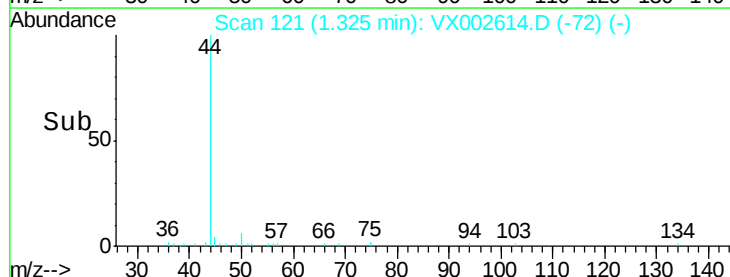
300

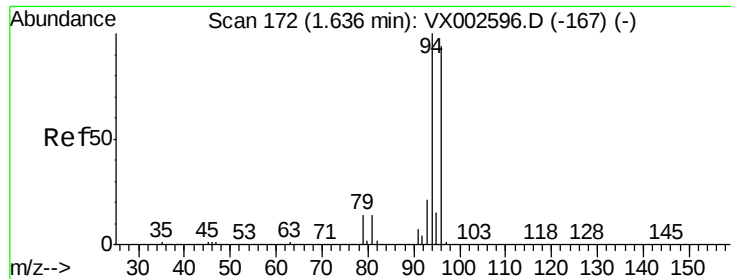
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.75 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002614.D

Acq: 15 Jun 2018 23:15

Instrument :

MSVOA_X

ClientSampled :

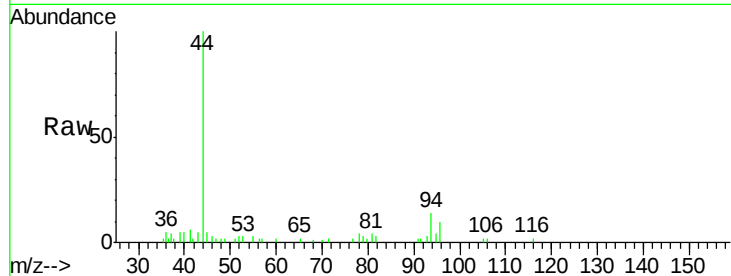
C-MW-11-061118

Tot Ion: 94 Resp: 1187

Ion Ratio Lower Upper

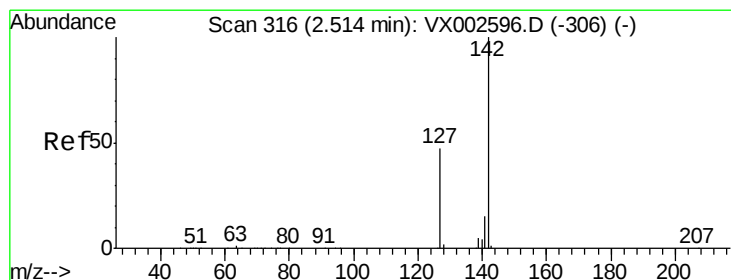
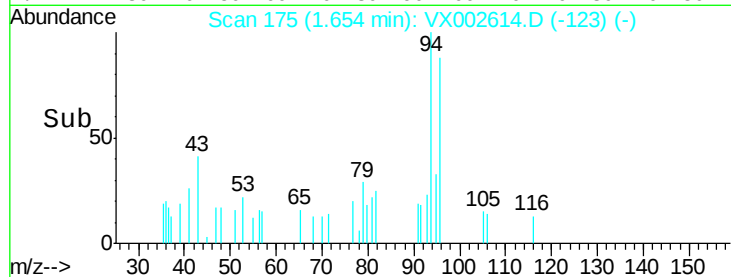
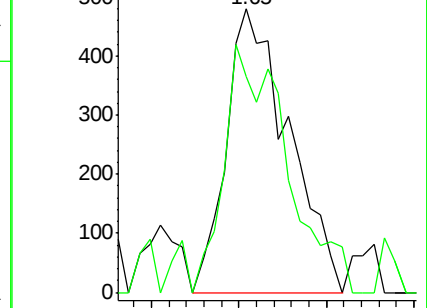
94 100

96 76.4 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 5.48 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002614.D

Acq: 15 Jun 2018 23:15

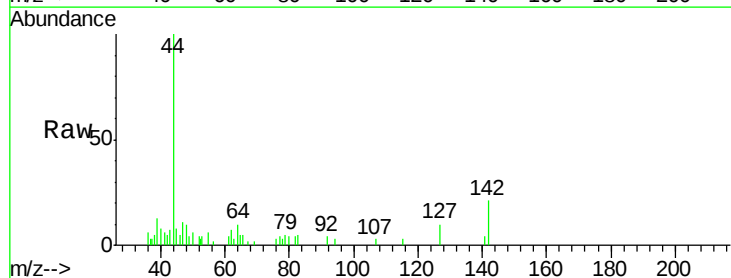
Tgt Ion: 142 Resp: 1062

Ion Ratio Lower Upper

142 100

127 50.8 36.6 55.0

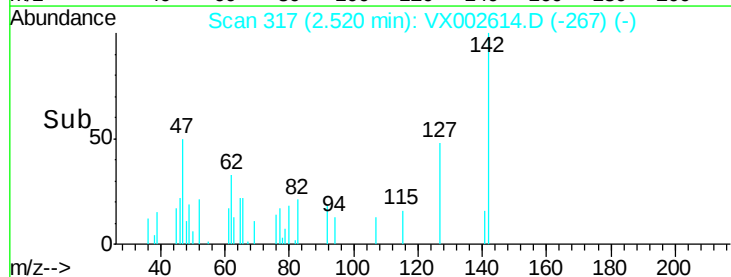
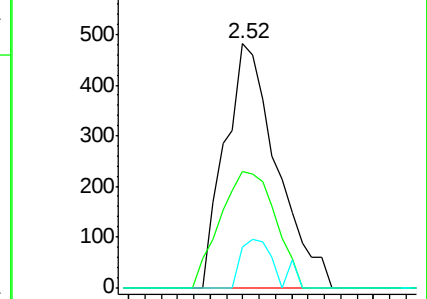
141 13.0 11.3 16.9

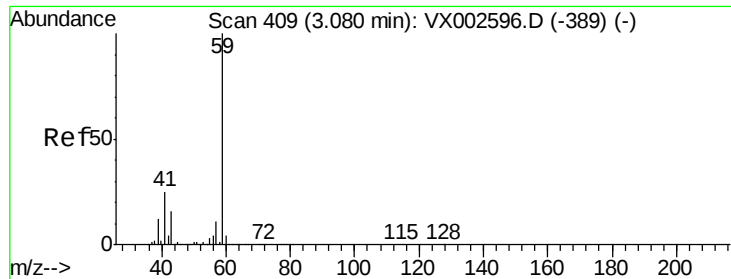


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



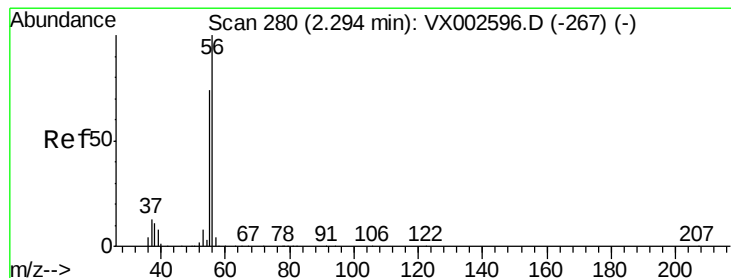
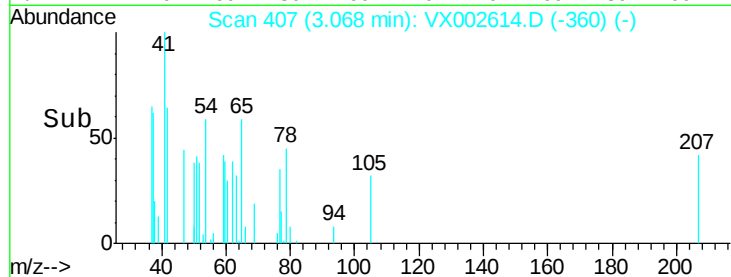
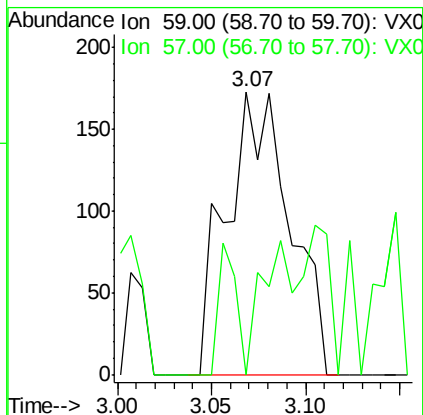
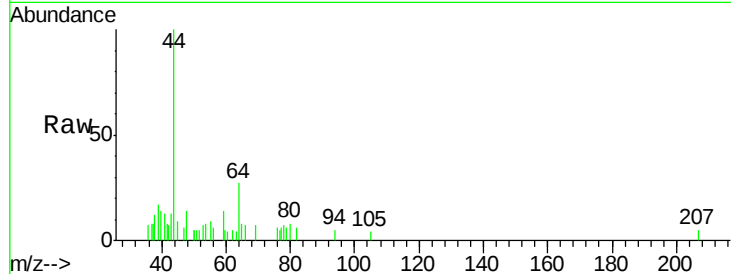


#11

Tert butyl alcohol
 Concen: 0.64 ug/l
 RT: 3.07 min Scan# 407
 Delta R.T. -0.01 min
 Lab File: VX002614.D
 Acq: 15 Jun 2018 23:15

Instrument :
 MSVOA_X
 ClientSampleId :
 C-MW-11-061118

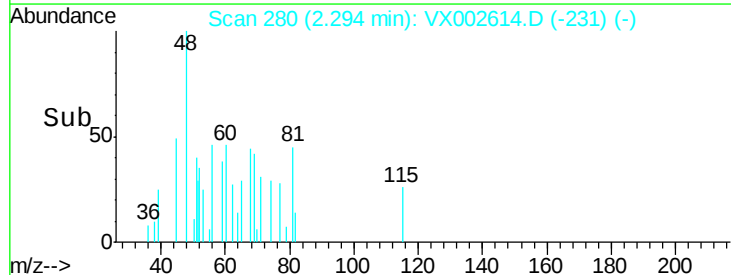
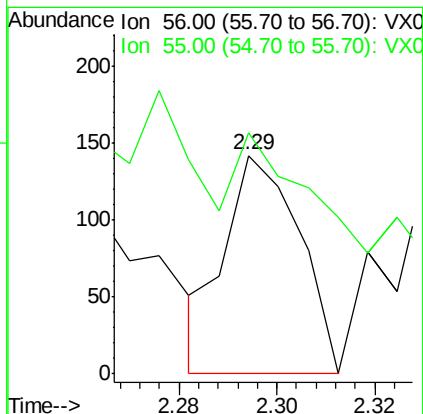
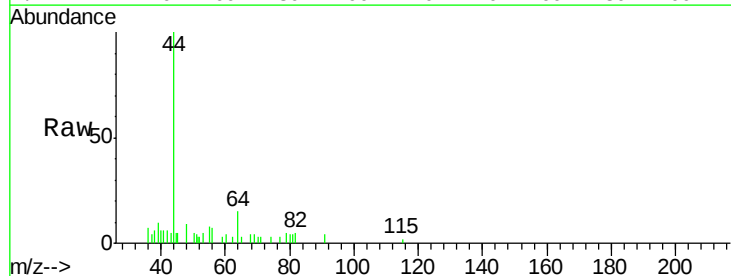
Tot Ion: 59 Resp: 405
 Ion Ratio Lower Upper
 59 100
 57 12.6 8.2 12.2#

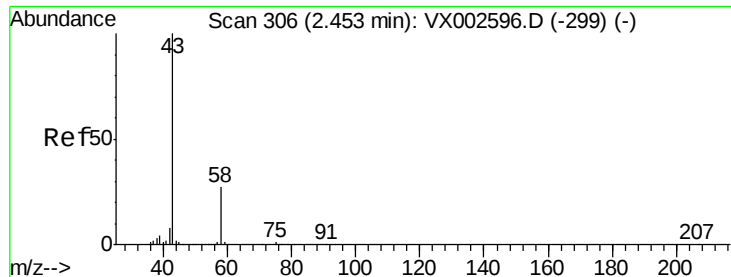


#13

Acrolein
 Concen: 7.36 ug/l
 RT: 2.29 min Scan# 280
 Delta R.T. 0.00 min
 Lab File: VX002614.D
 Acq: 15 Jun 2018 23:15

Tgt Ion: 56 Resp: 149
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.0 85.4#





#16

Acetone

Concen: 10.85 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002614.D

Acq: 15 Jun 2018 23:15

Instrument :

MSVOA_X

ClientSampleId :

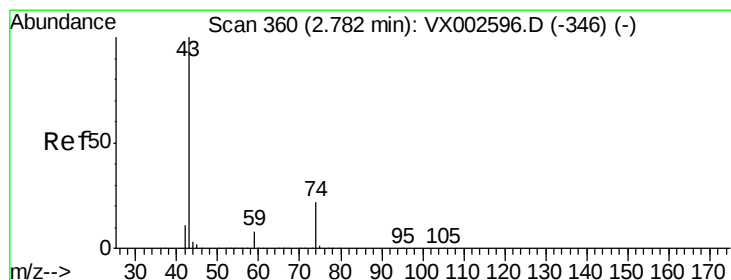
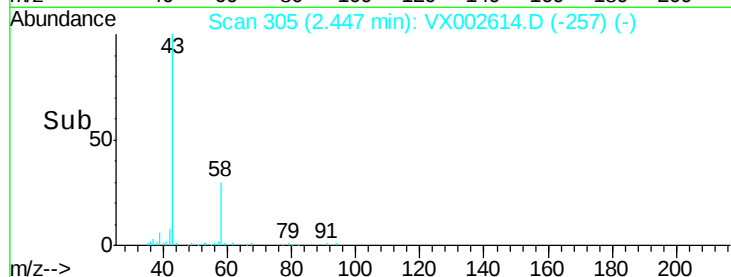
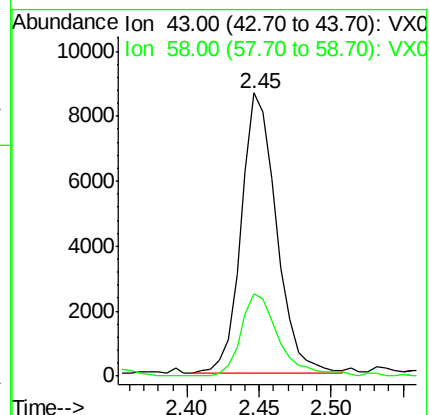
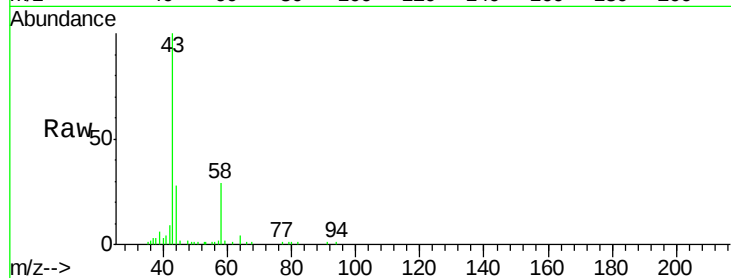
C-MW-11-061118

Tot Ion: 43 Resp: 14546

Ion Ratio Lower Upper

43 100

58 29.4 22.1 33.1



#18

Methyl Acetate

Concen: 0.24 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX002614.D

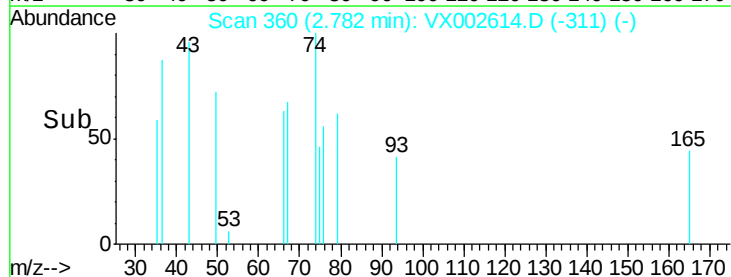
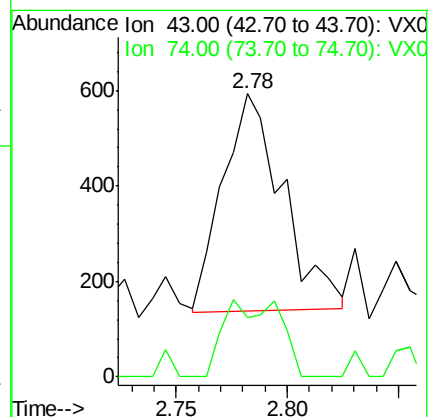
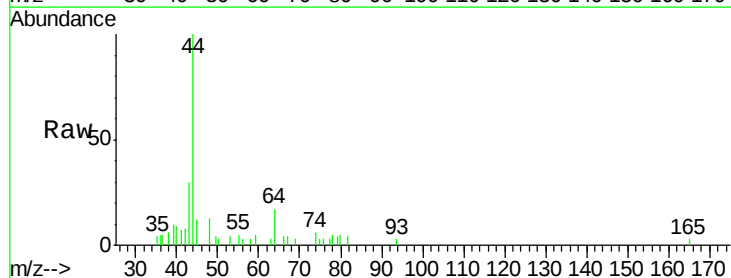
Acq: 15 Jun 2018 23:15

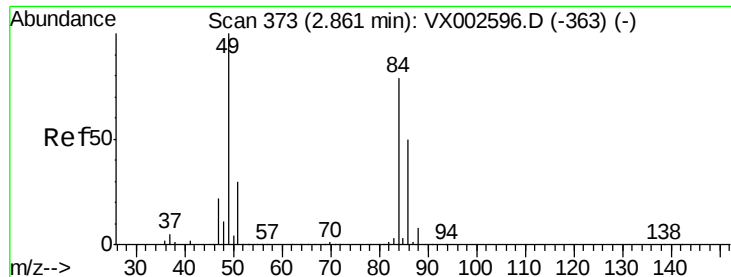
Tgt Ion: 43 Resp: 853

Ion Ratio Lower Upper

43 100

74 32.7 16.7 25.1#





#20

Methylene Chloride

Concen: 0.34 ug/l

RT: 2.86 min Scan# 372

Delta R.T. -0.01 min

Lab File: VX002614.D

Acq: 15 Jun 2018 23:15

Instrument :

MSVOA_X

ClientSampleId :

C-MW-11-061118

Tot Ion: 84 Resp: 933

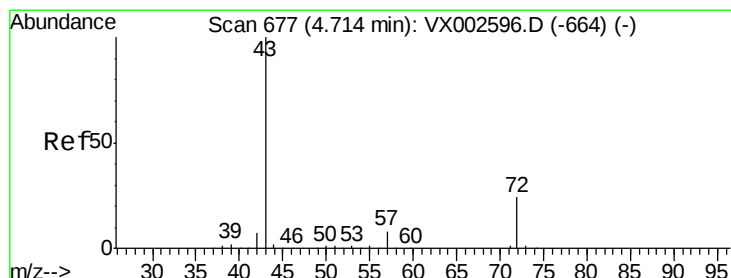
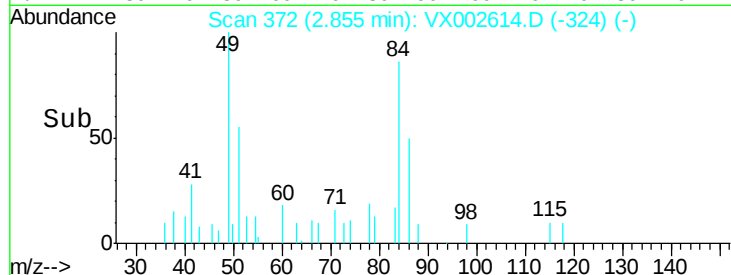
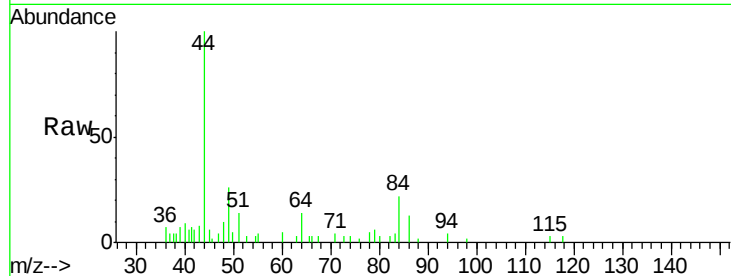
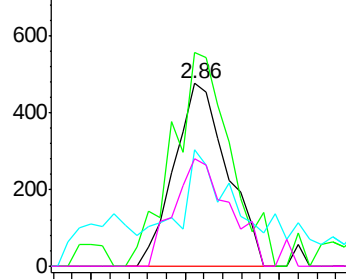
Ion	Ratio	Lower	Upper
84	100		
49	116.8	107.8	161.6
51	41.3	32.8	49.2
86	58.9	52.5	78.7

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: 2.08 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.01 min

Lab File: VX002614.D

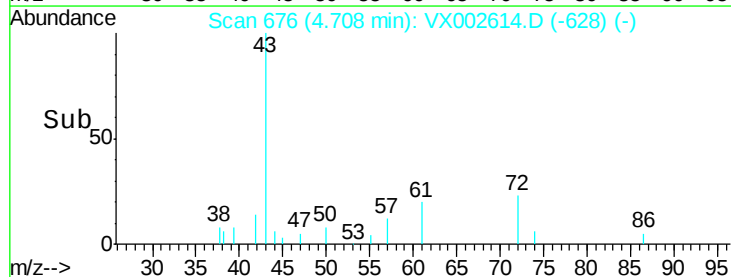
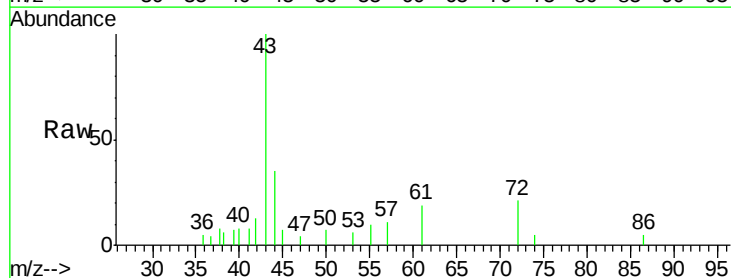
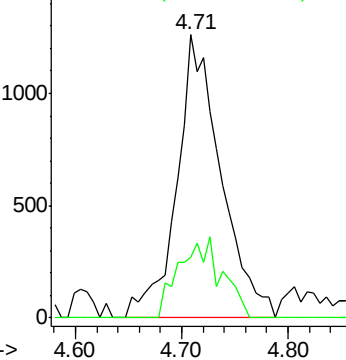
Acq: 15 Jun 2018 23:15

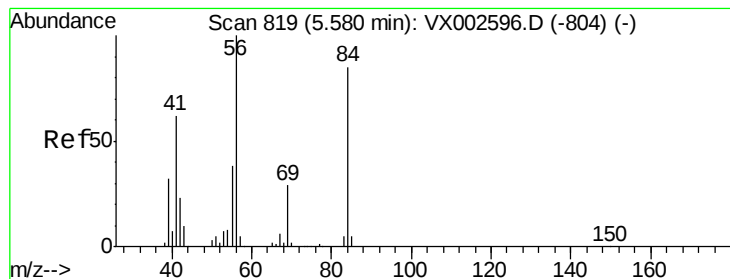
Tgt Ion: 43 Resp: 3654

Ion	Ratio	Lower	Upper
43	100		
72	21.5	18.5	27.7

Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#31

Cyclohexane

Concen: 1.33 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX002614.D

Acq: 15 Jun 2018 23:15

Instrument :

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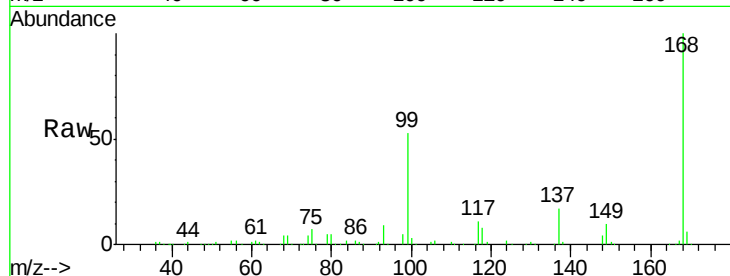
Tot Ion: 56 Resp: 4770

Ion Ratio Lower Upper

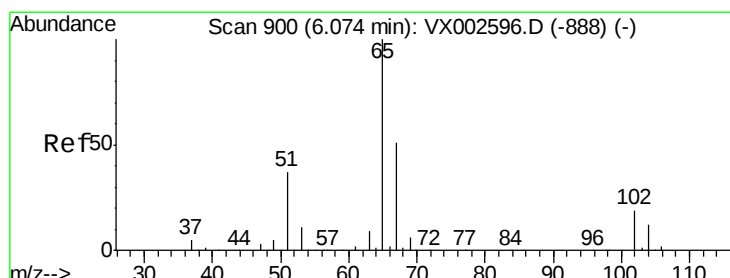
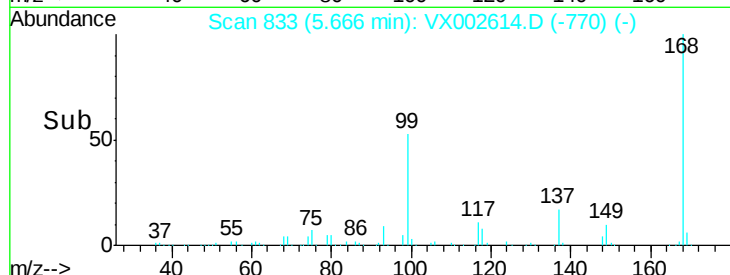
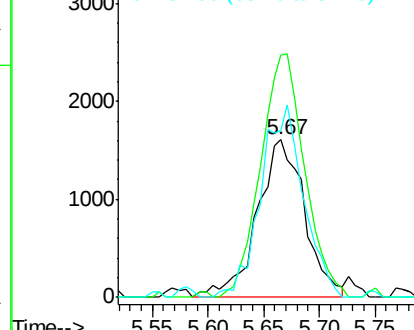
56 100

69 153.5 23.7 35.5#

84 105.7 64.1 96.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 45.56 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002614.D

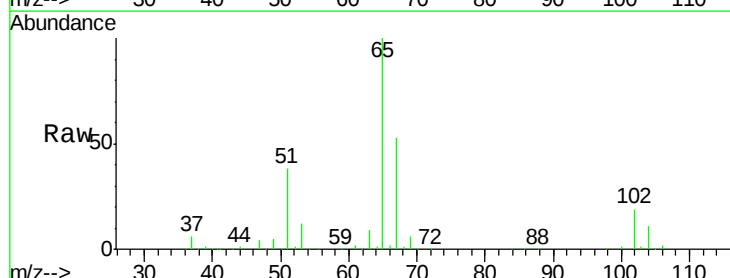
Acq: 15 Jun 2018 23:15

Tgt Ion: 65 Resp: 138409

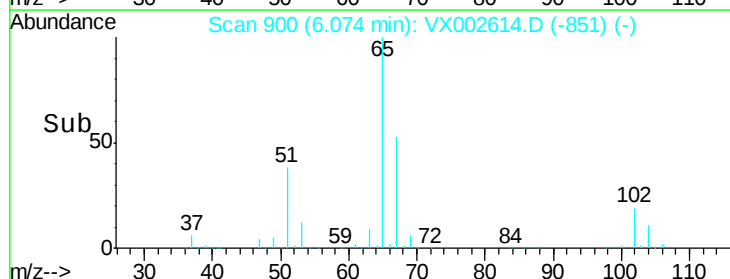
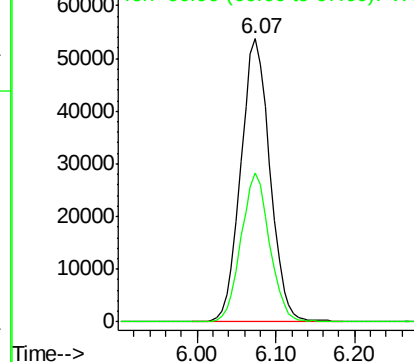
Ion Ratio Lower Upper

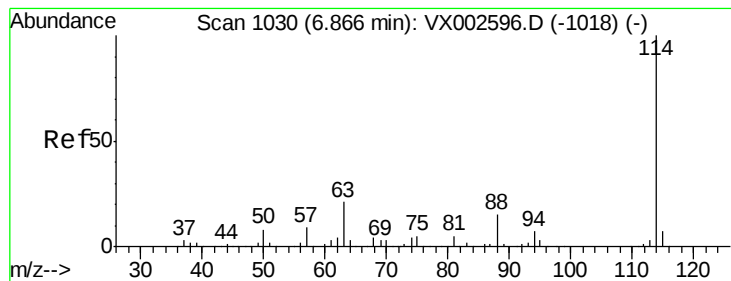
65 100

67 51.5 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: VX002614.D

Acq: 15 Jun 2018 23:15

Instrument :

MSVOA_X

ClientSampleId :

C-MW-11-061118

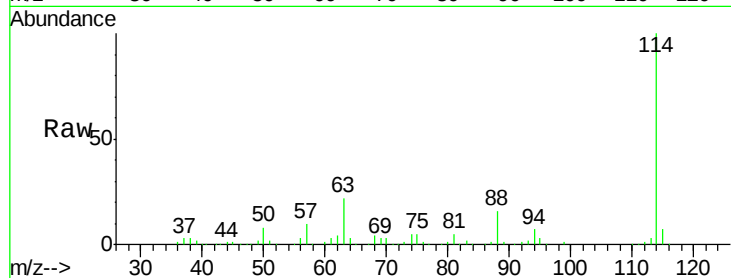
Tot Ion:114 Resp: 286342

Ion Ratio Lower Upper

114 100

63 21.6 0.0 41.4

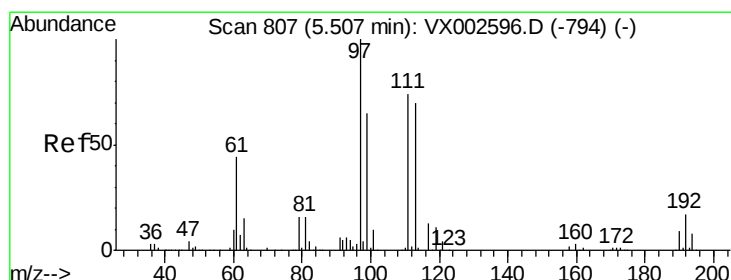
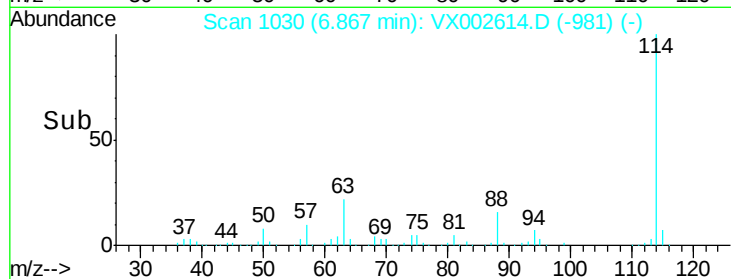
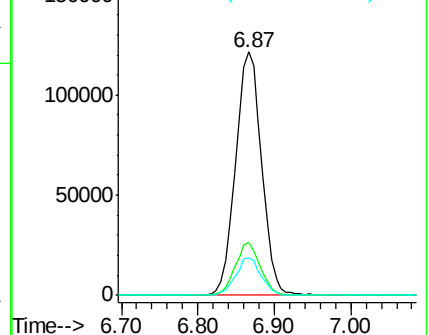
88 15.6 0.0 30.0



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: 45.38 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002614.D

Acq: 15 Jun 2018 23:15

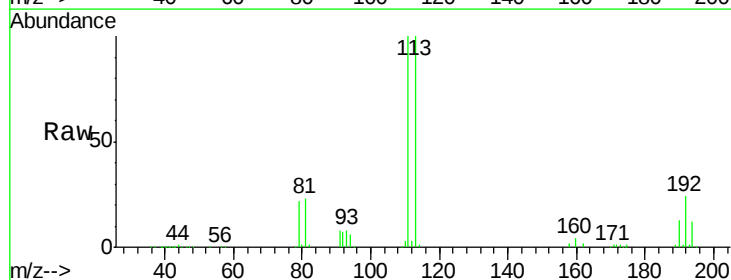
Tgt Ion:113 Resp: 103697

Ion Ratio Lower Upper

113 100

111 102.5 81.4 122.0

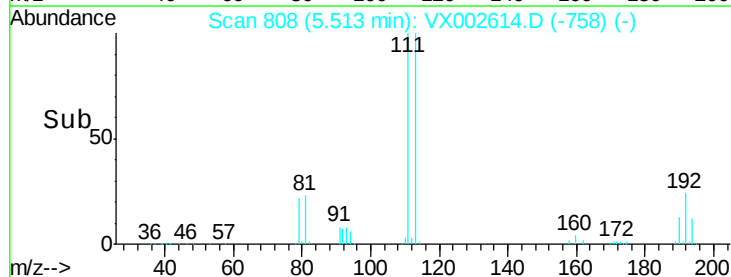
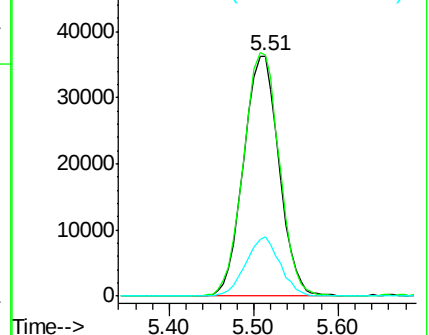
192 23.7 19.1 28.7

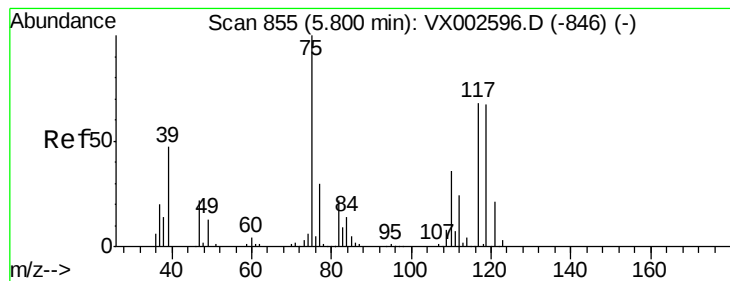


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.65 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002614.D

Acq: 15 Jun 2018 23:15

Instrument :

MSVOA_X

ClientSampleId :

C-MW-11-061118

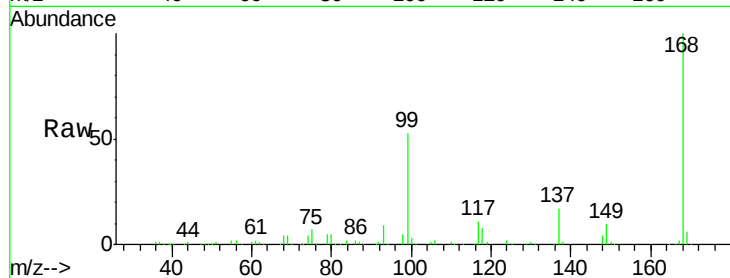
Tot Ion: 75 Resp: 14132

Ion Ratio Lower Upper

75 100

110 10.3 18.1 54.4#

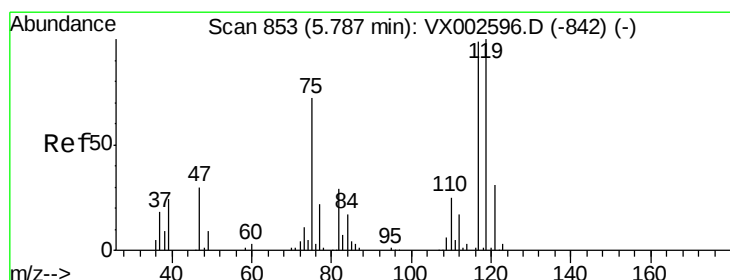
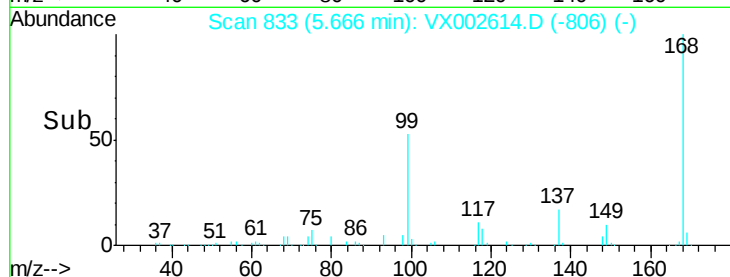
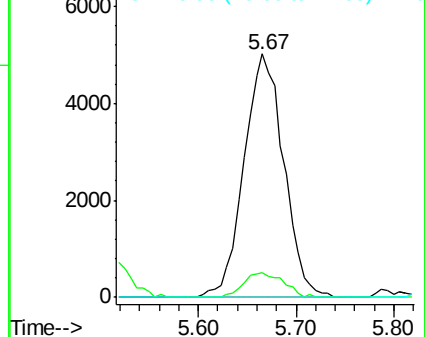
77 0.0 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VX002614.D (-806) (-)

Ion 109.90 (109.60 to 110.60): VX002614.D (-806) (-)

Ion 76.90 (76.60 to 77.60): VX002614.D (-806) (-)



#38

Carbon Tetrachloride

Concen: 6.27 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002614.D

Acq: 15 Jun 2018 23:15

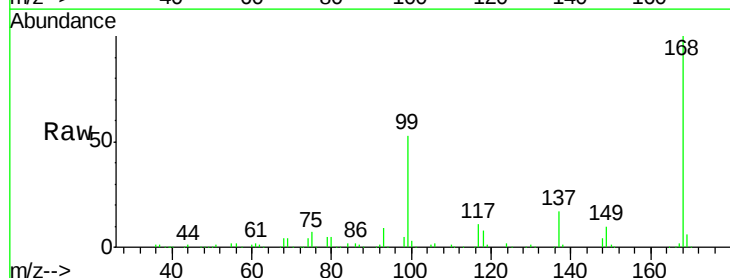
Tgt Ion: 117 Resp: 18989

Ion Ratio Lower Upper

117 100

119 6.0 77.4 116.0#

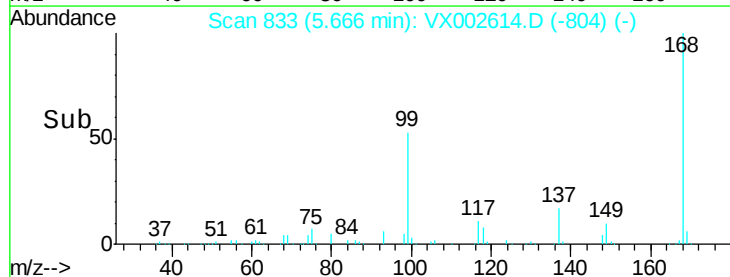
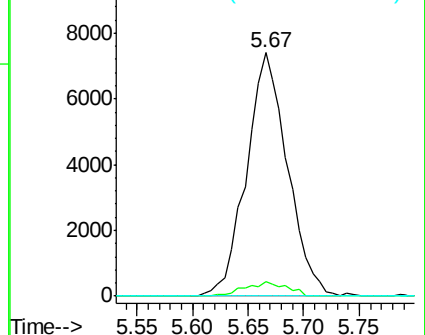
121 0.0 24.4 36.6#

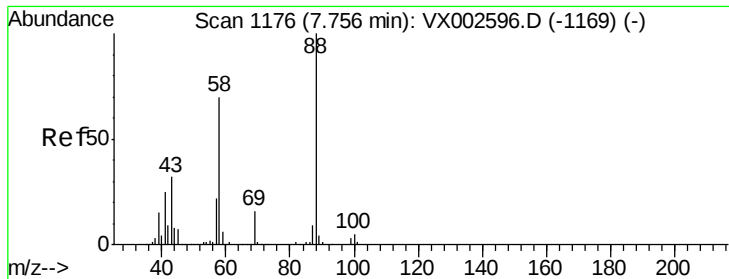


Abundance Ion 116.80 (116.50 to 117.50): VX002614.D (-804) (-)

Ion 118.80 (118.50 to 119.50): VX002614.D (-804) (-)

Ion 120.80 (120.50 to 121.50): VX002614.D (-804) (-)

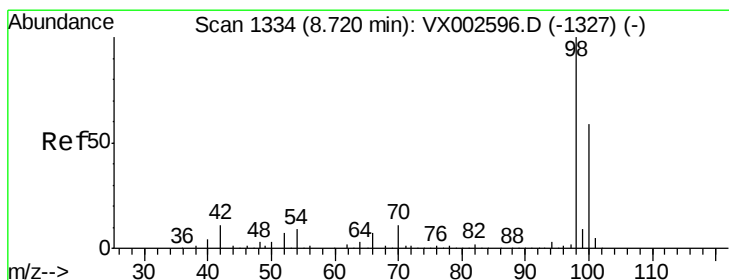
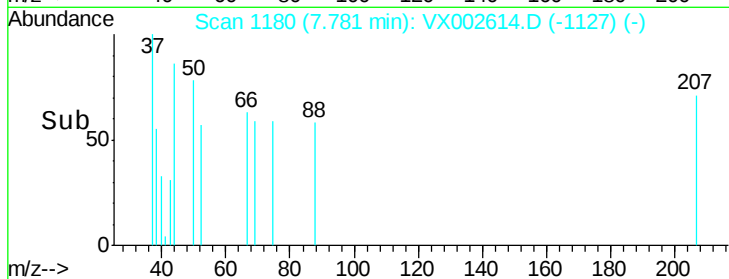
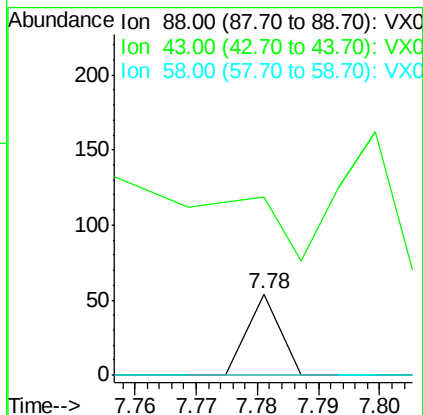
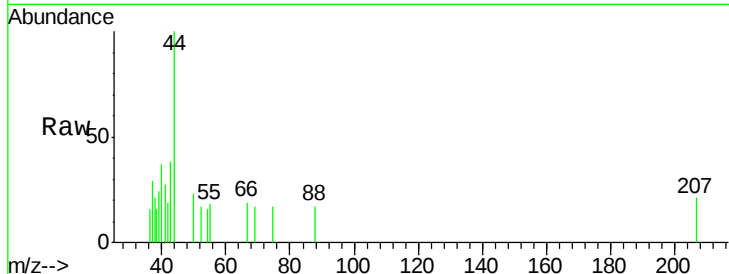




#49
1,4-Dioxane
Concen: 0.36 ug/l
RT: 7.78 min Scan# 1180
Delta R.T. 0.02 min
Lab File: VX002614.D
Acq: 15 Jun 2018 23:15

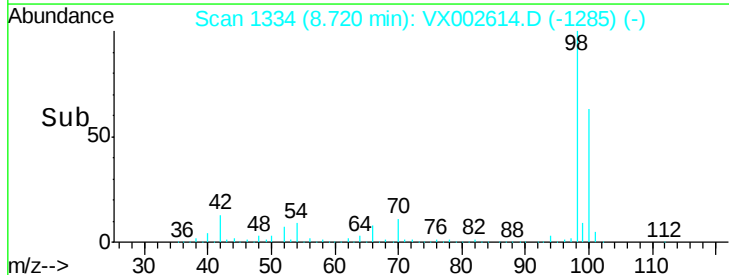
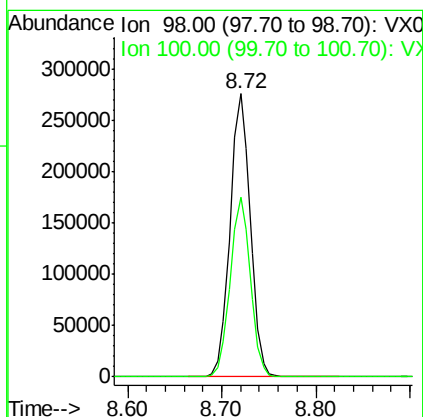
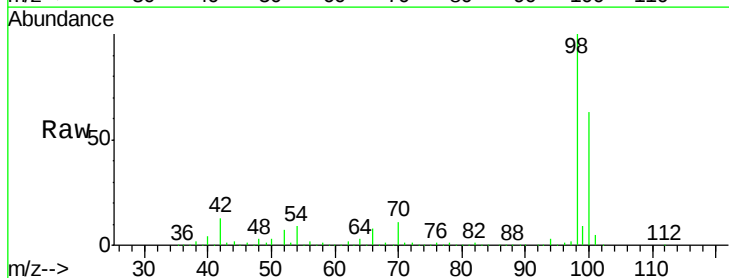
Instrument :
MSVOA_X
ClientSampleId :
C-MW-11-061118

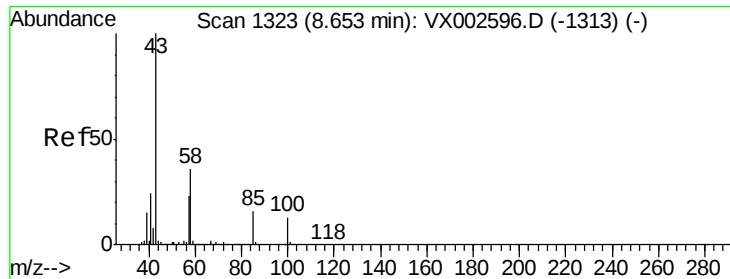
Tot Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 395.0 29.8 44.6#
58 0.0 57.1 85.7#



#50
Toluene-d8
Concen: 47.41 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002614.D
Acq: 15 Jun 2018 23:15

Tgt Ion: 98 Resp: 411403
Ion Ratio Lower Upper
98 100
100 63.5 50.9 76.3





#51

4-Methyl-2-Pentanone

Concen: 0.41 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. 0.01 min

Lab File: VX002614.D

Acq: 15 Jun 2018 23:15

Instrument :

MSVOA_X

ClientSampleId :

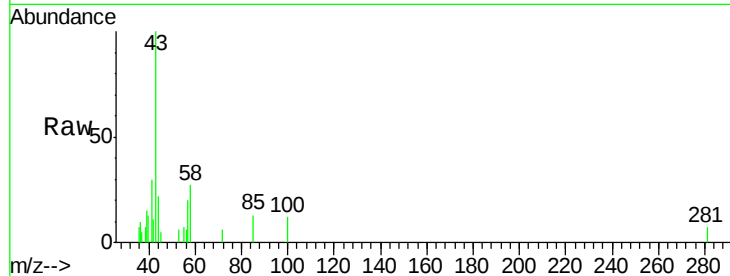
C-MW-11-061118

Tot Ion: 43 Resp: 1488

Ion Ratio Lower Upper

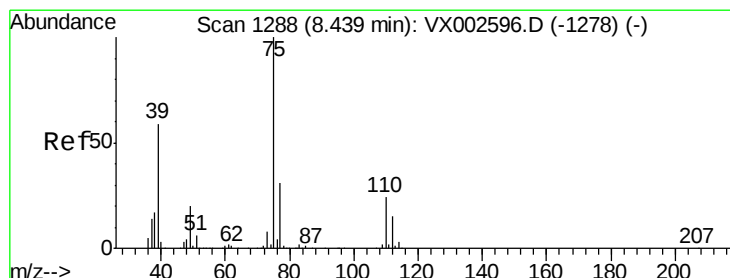
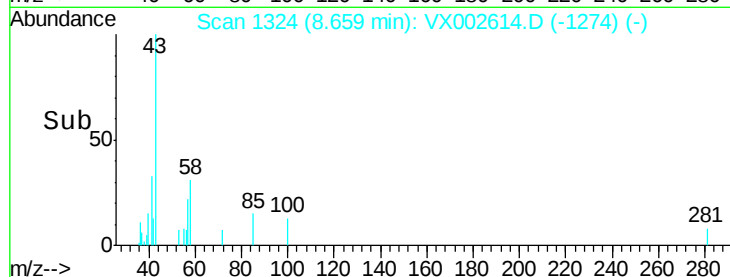
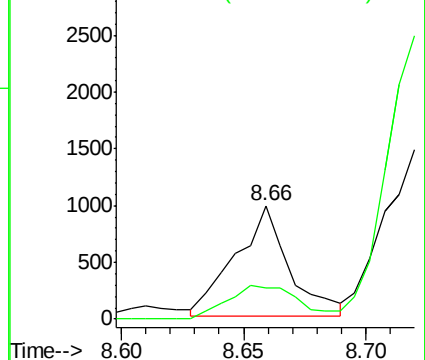
43 100

58 38.9 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#53

t-1,3-Dichloropropene

Concen: 2.41 ug/l

RT: 8.44 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VX002614.D

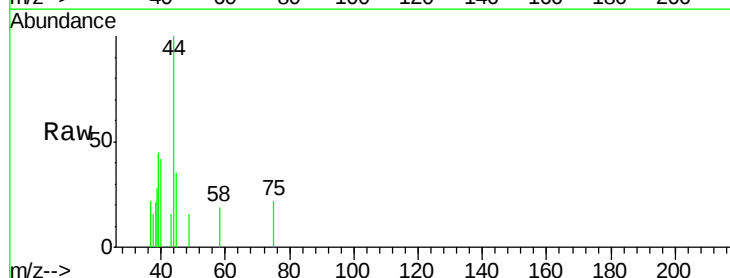
Acq: 15 Jun 2018 23:15

Tgt Ion: 75 Resp: 71

Ion Ratio Lower Upper

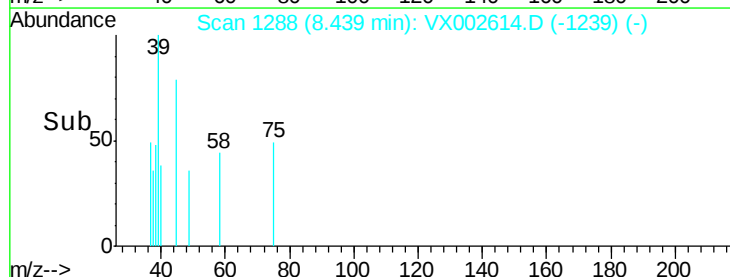
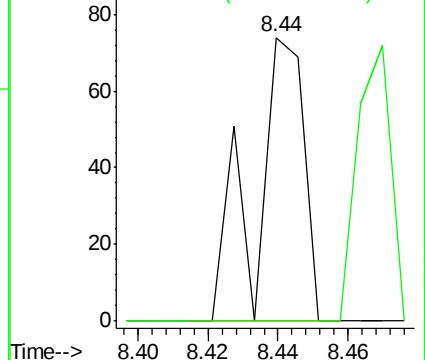
75 100

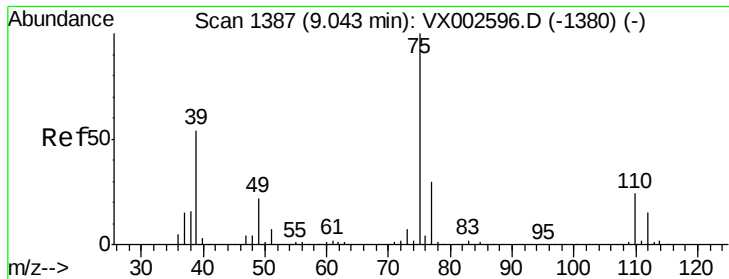
77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



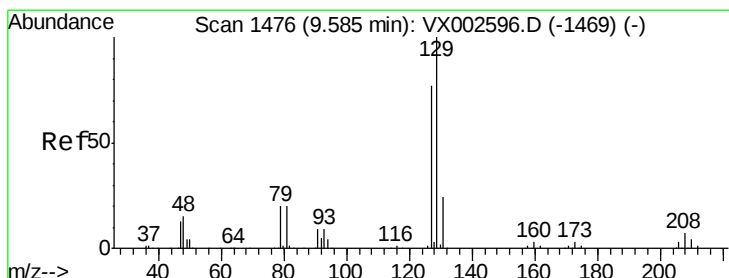
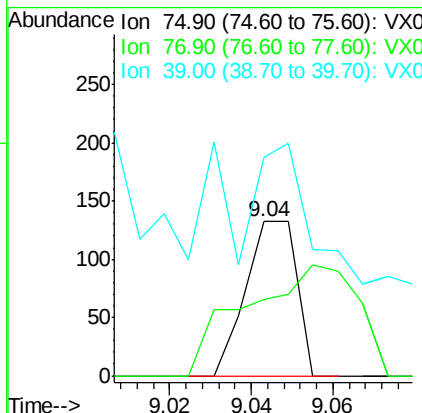
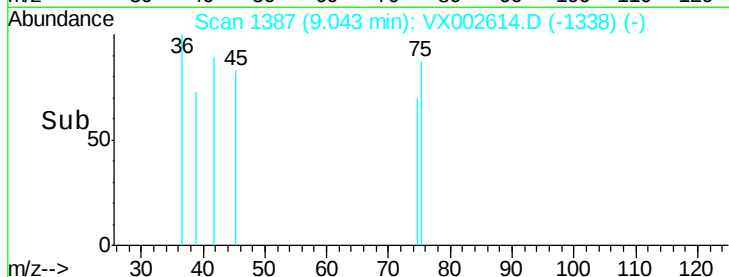
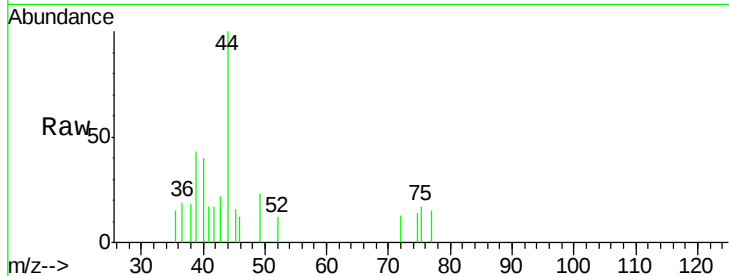


#54

cis-1,3-Dichloropropene
Concen: 3.24 ug/l
RT: 9.04 min Scan# 1387
Delta R.T. 0.00 min
Lab File: VX002614.D
Acq: 15 Jun 2018 23:15

Instrument :
MSVOA_X
ClientSampleId :
C-MW-11-061118

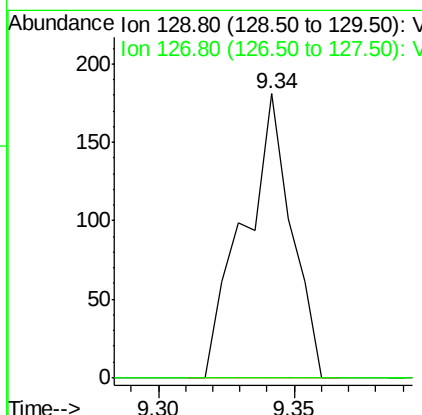
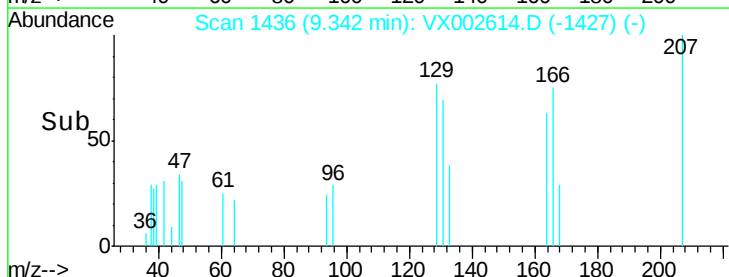
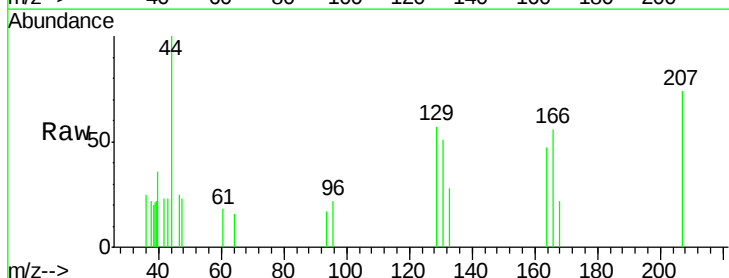
Tot Ion: 75 Resp: 115
Ion Ratio Lower Upper
75 100
77 50.0 24.8 37.2#
39 66.7 42.4 63.6#

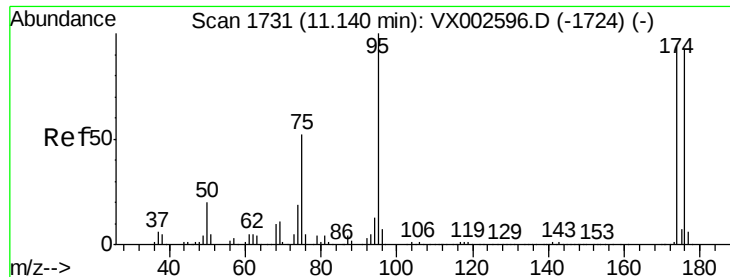


#60

Dibromochloromethane
Concen: 3.84 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.24 min
Lab File: VX002614.D
Acq: 15 Jun 2018 23:15

Tgt Ion: 129 Resp: 218
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#

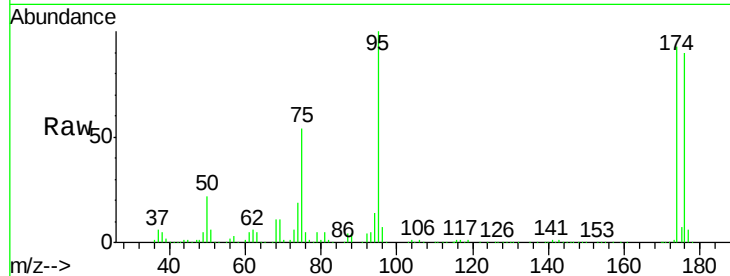




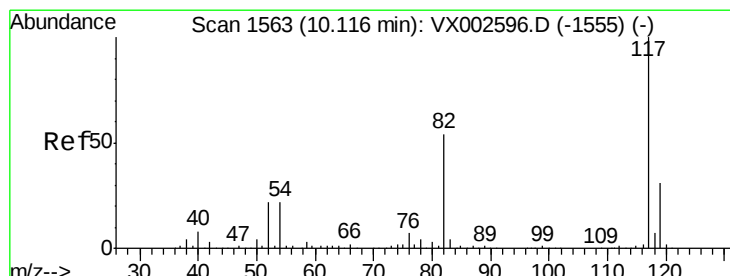
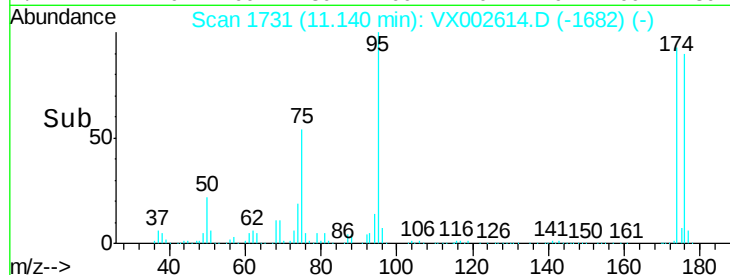
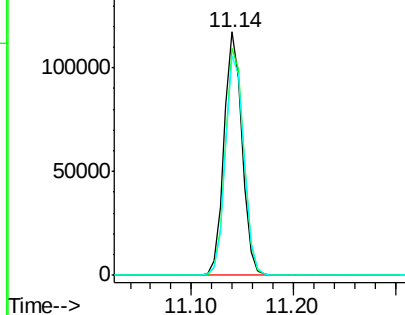
#62
4-Bromofluorobenzene
Concen: 43.79 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002614.D
Acq: 15 Jun 2018 23:15

Instrument :
MSVOA_X
ClientSampleId :
C-MW-11-061118

Tot Ion: 95 Resp: 143987
Ion Ratio Lower Upper
95 100
174 94.7 0.0 187.4
176 92.6 0.0 181.0

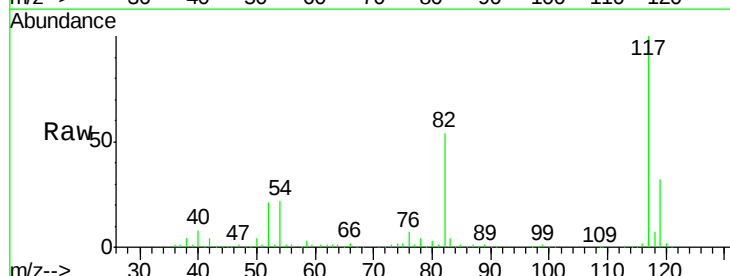


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

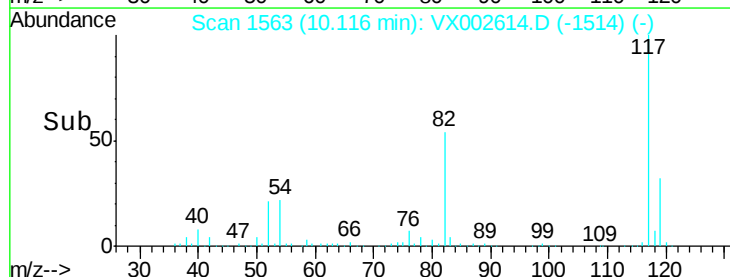
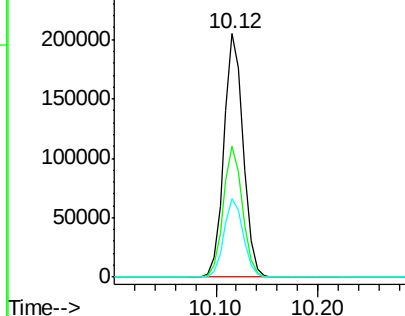


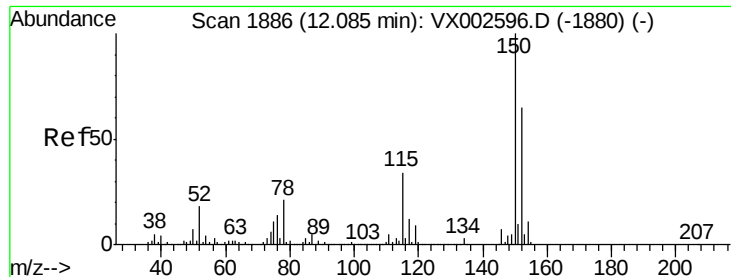
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002614.D
Acq: 15 Jun 2018 23:15

Tgt Ion: 117 Resp: 267596
Ion Ratio Lower Upper
117 100
82 53.8 45.0 67.4
119 32.0 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: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002614.D

Acq: 15 Jun 2018 23:15

Instrument :

MSVOA_X

ClientSampleId :

C-MW-11-061118

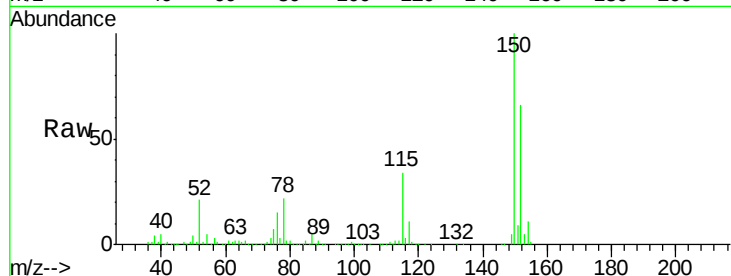
Tot Ion:152 Resp: 153737

Ion Ratio Lower Upper

152 100

115 54.9 40.1 120.2

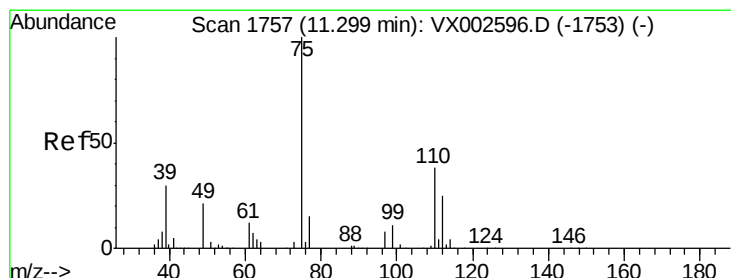
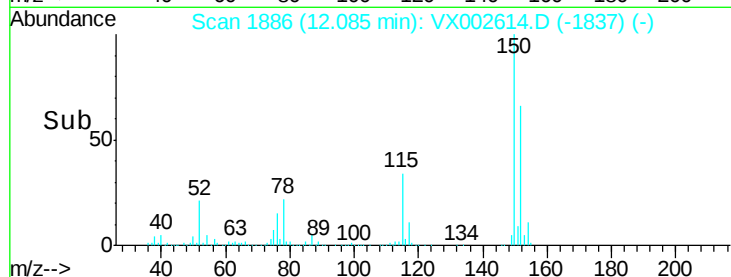
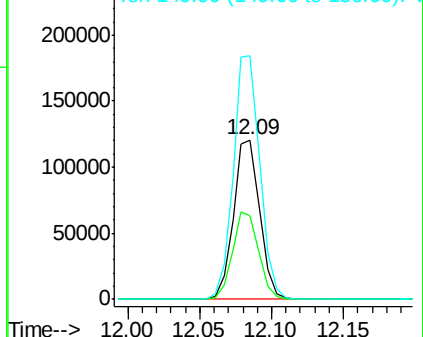
150 155.1 0.0 347.2



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: 26.92 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002614.D

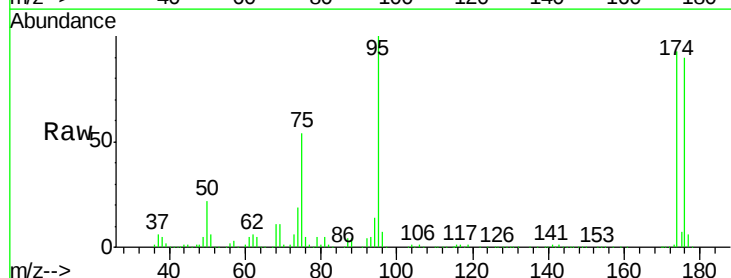
Acq: 15 Jun 2018 23:15

Tgt Ion: 75 Resp: 78085

Ion Ratio Lower Upper

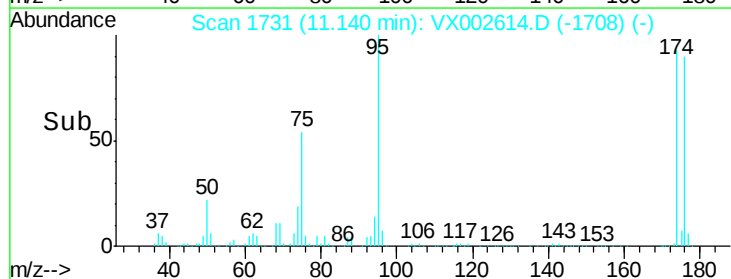
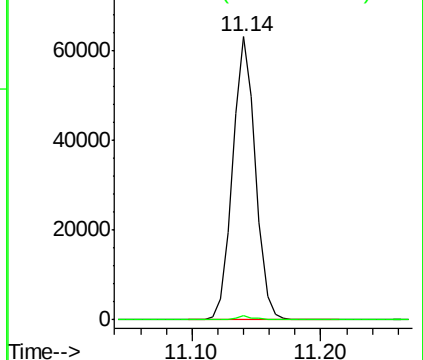
75 100

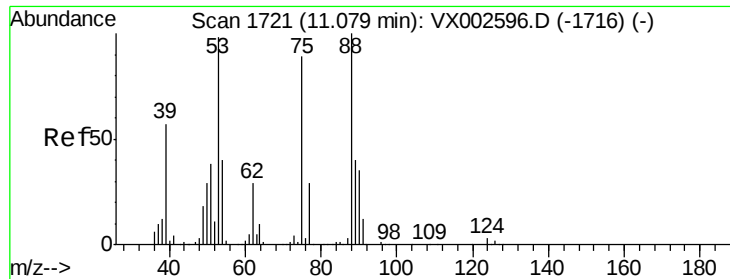
77 1.2 22.8 68.3#



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: 83.10 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002614.D

Acq: 15 Jun 2018 23:15

Instrument :

MSVOA_X

ClientSampleId :

C-MW-11-061118

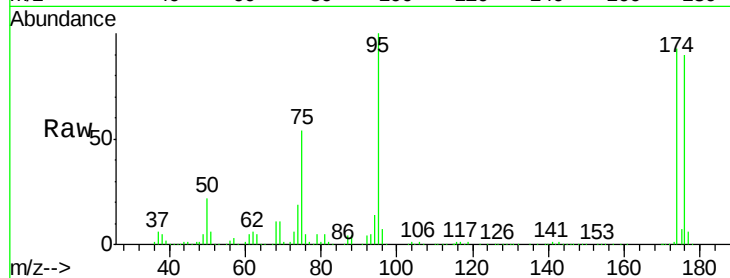
Tot Ion: 75 Resp: 78085

Ion Ratio Lower Upper

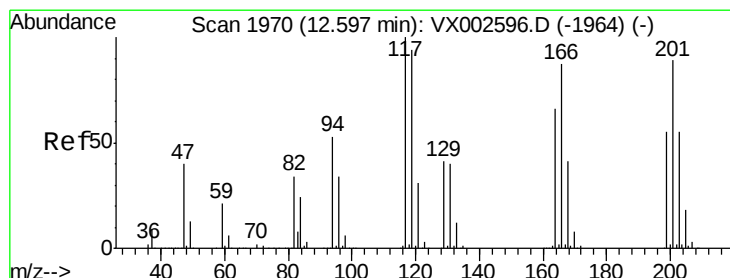
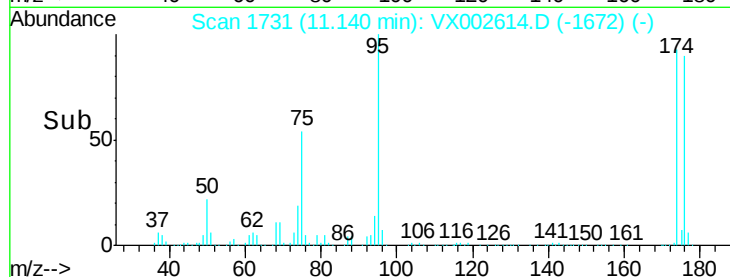
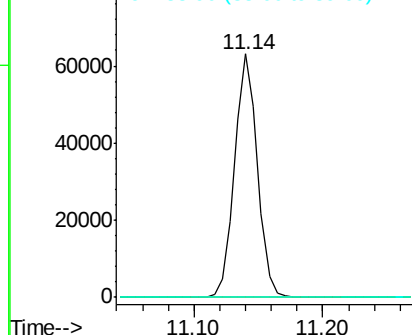
75 100

53 0.1 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



#90

Hexachloroethane

Concen: 2.64 ug/l

RT: 12.62 min Scan# 1973

Delta R.T. 0.02 min

Lab File: VX002614.D

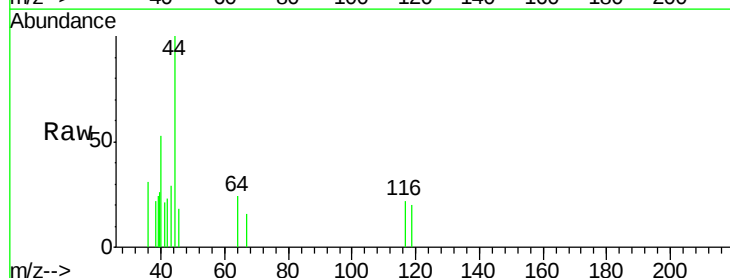
Acq: 15 Jun 2018 23:15

Tgt Ion: 117 Resp: 26

Ion Ratio Lower Upper

117 100

201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V

