

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX043019\
 Data File : VX009246.D
 Acq On : 30 Apr 2019 15:17
 Operator : JC/SP
 Sample : K2621-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 A5327

Quant Time: May 01 01:23:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:03:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	204968	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	332486	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	288417	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	123811	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	135662	48.48	ug/l	0.00
Spiked Amount			Recovery	=	96.96%	
35) Dibromofluoromethane	5.49	113	99897	47.79	ug/l	0.00
Spiked Amount			Recovery	=	95.58%	
50) Toluene-d8	8.71	98	414431	49.11	ug/l	0.00
Spiked Amount			Recovery	=	98.22%	
62) 4-Bromofluorobenzene	11.13	95	137397	44.81	ug/l	0.00
Spiked Amount			Recovery	=	89.62%	

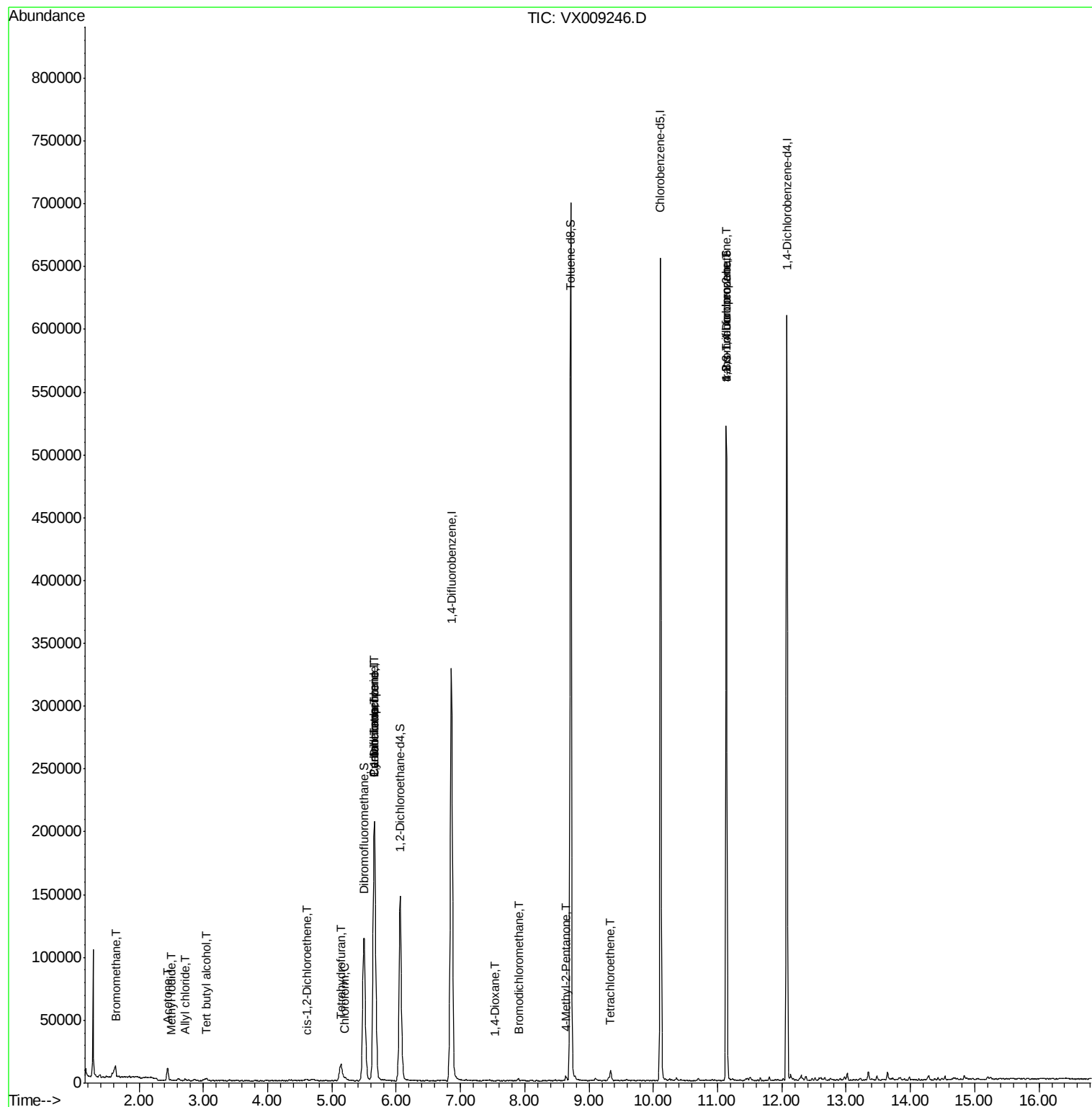
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	618	0.409	ug/l #	64
10) Methyl Iodide	2.51	142	37	4.609	ug/l #	42
11) Tert butyl alcohol	3.04	59	2241	3.460	ug/l #	89
14) Allyl chloride	2.71	41	1310	0.280	ug/l #	48
16) Acetone	2.44	43	11121	7.402	ug/l	92
27) cis-1,2-Dichloroethene	4.61	96	653	0.262	ug/l	80
28) Bromochloromethane	5.02	49	70	Below Cal	#	20
29) Tetrahydrofuran	5.14	42	13953	9.287	ug/l	99
30) Chloroform	5.21	83	1618	0.402	ug/l	84
31) Cyclohexane	5.66	56	4453	1.076	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15948	5.161	ug/l #	50
38) Carbon Tetrachloride	5.66	117	19166	6.827	ug/l #	16
47) Bromodichloromethane	7.90	83	1065	0.340	ug/l #	74
49) 1,4-Dioxane	7.54	88	20	0.289	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	2806	0.623	ug/l	100
64) Tetrachloroethene	9.34	164	1673	0.846	ug/l	93
76) 1,2,3-Trichloropropane	11.13	75	71516	24.901	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	71516	63.714	ug/l #	10

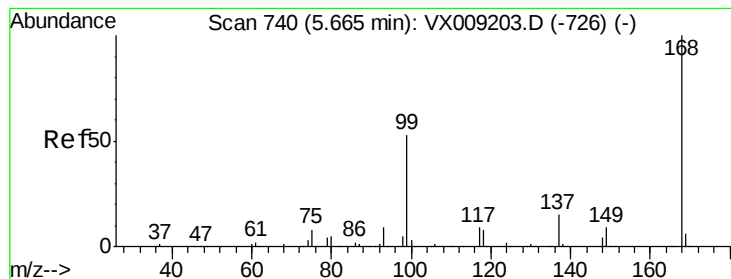
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009246.D

Acq: 30 Apr 2019 15:17

Instrument :

MSVOA_X

ClientSampled :

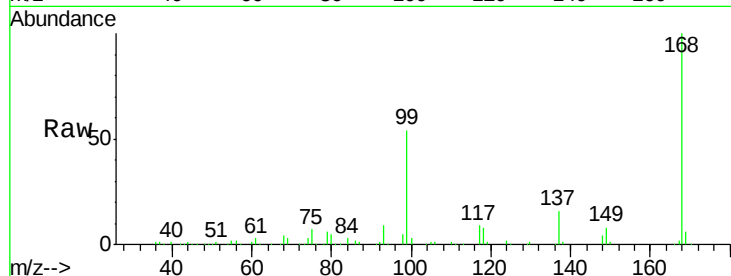
A5327

Tot Ion:168 Resp: 204968

Ion Ratio Lower Upper

168 100

99 53.4 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

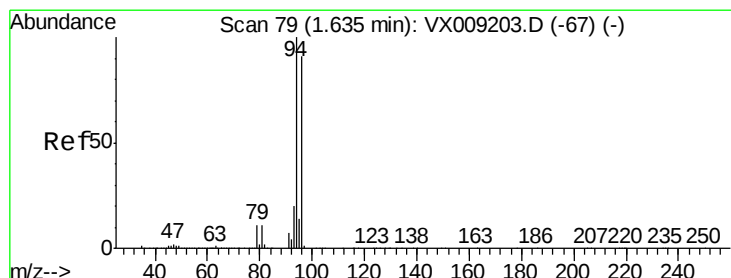
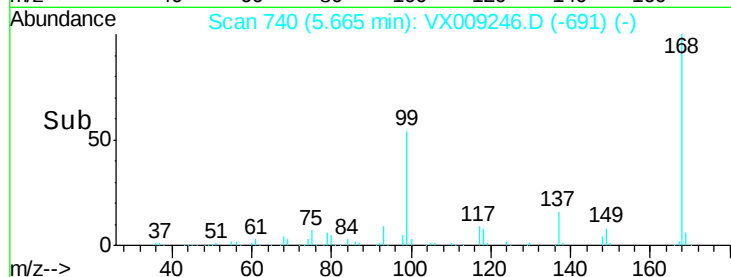
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.409 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009246.D

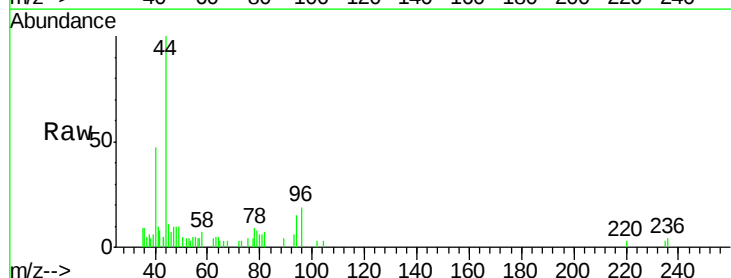
Acq: 30 Apr 2019 15:17

Tgt Ion: 94 Resp: 618

Ion Ratio Lower Upper

94 100

96 125.2 73.0 109.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

300

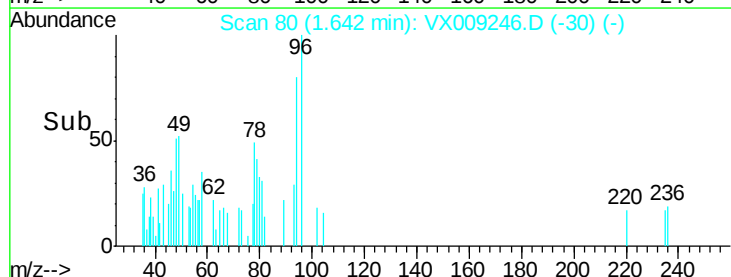
200

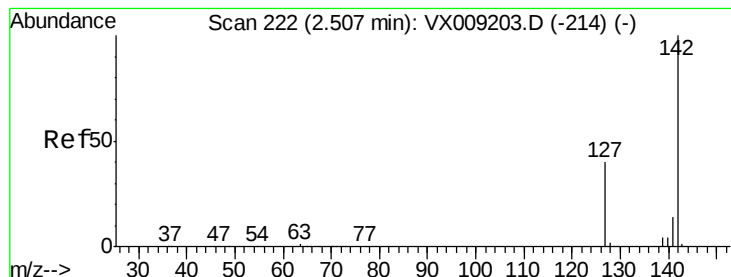
100

0

Time-->

1.60 1.65 1.70





#10

Methyl Iodide

Concen: 4.609 ug/l

RT: 2.51 min Scan# 222

Delta R.T. 0.00 min

Lab File: VX009246.D

Acq: 30 Apr 2019 15:17

Instrument :

MSVOA_X

ClientSampleId :

A5327

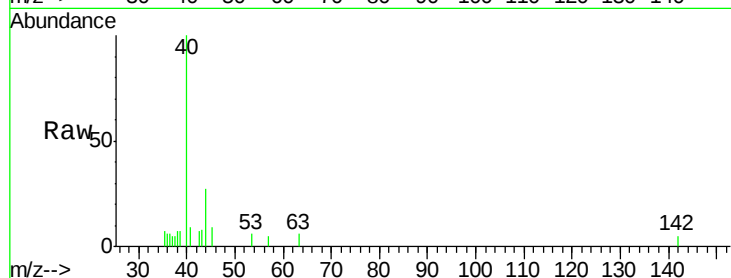
Tot Ion:142 Resp: 37

Ion Ratio Lower Upper

142 100

127 0.0 32.7 49.1#

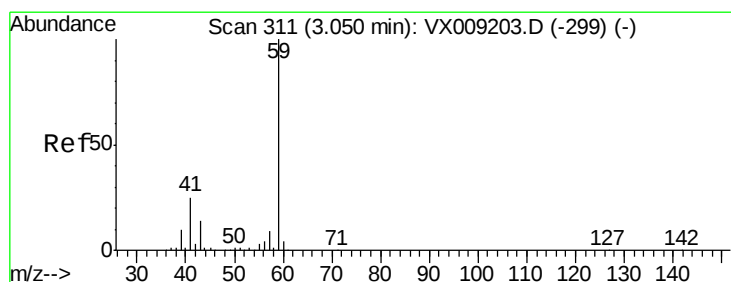
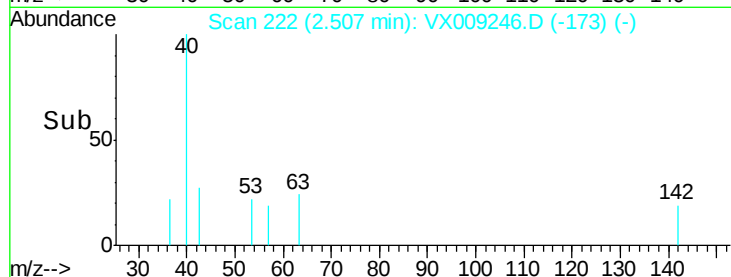
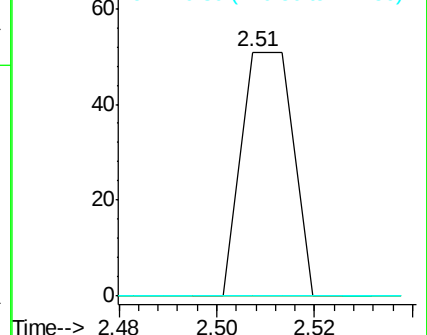
141 0.0 11.5 17.3#



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: 3.460 ug/l

RT: 3.04 min Scan# 310

Delta R.T. -0.01 min

Lab File: VX009246.D

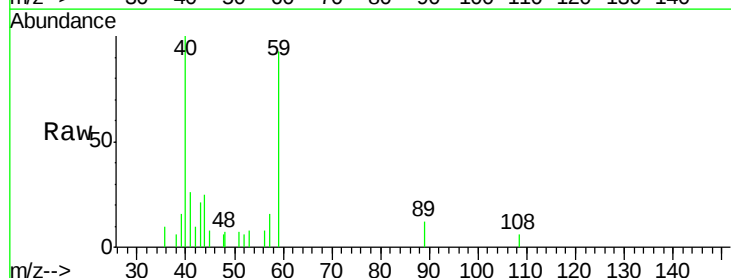
Acq: 30 Apr 2019 15:17

Tgt Ion: 59 Resp: 2241

Ion Ratio Lower Upper

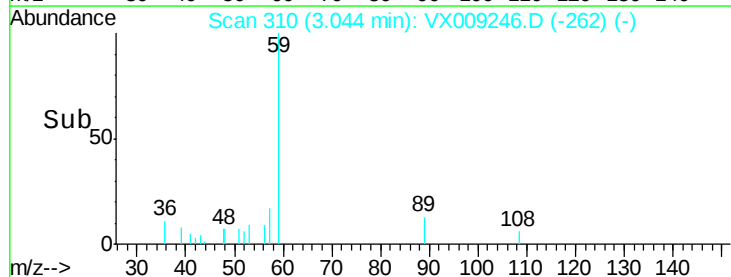
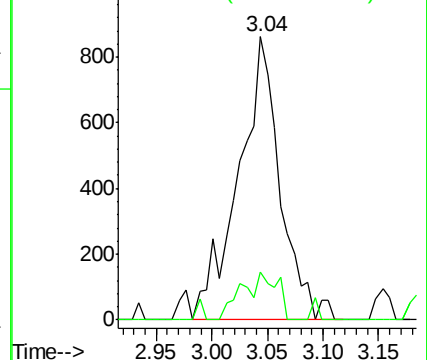
59 100

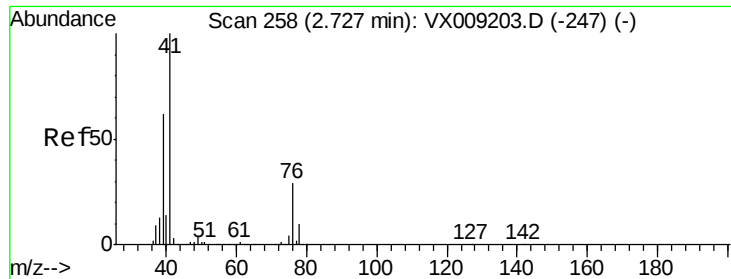
57 14.2 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

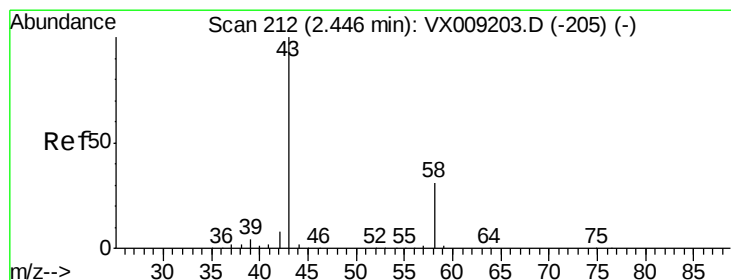
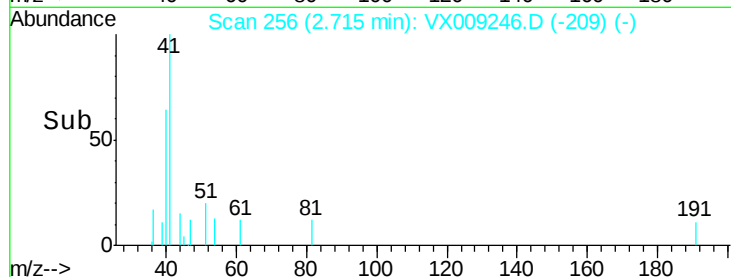
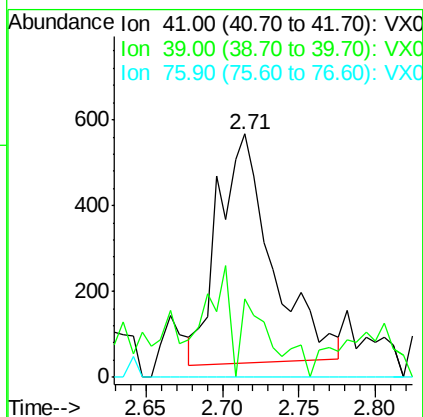
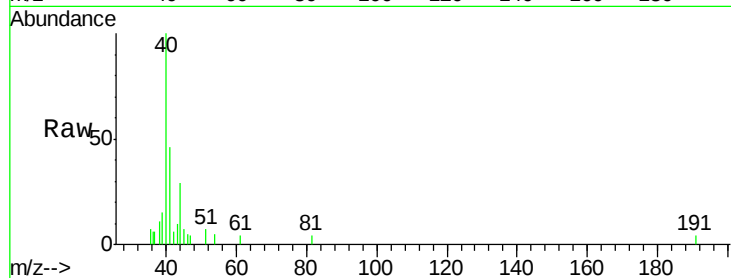




#14
Allvl chloride
Concen: 0.280 ug/l
RT: 2.71 min Scan# 256
Delta R.T. -0.01 min
Lab File: VX009246.D
Acq: 30 Apr 2019 15:17

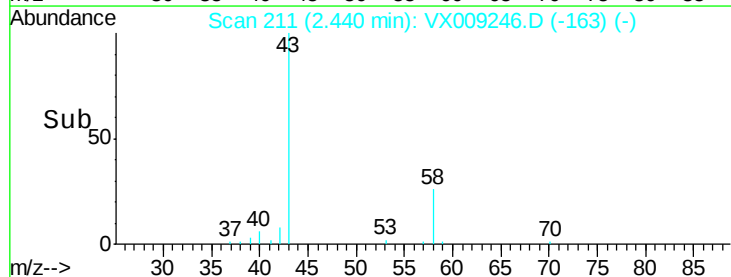
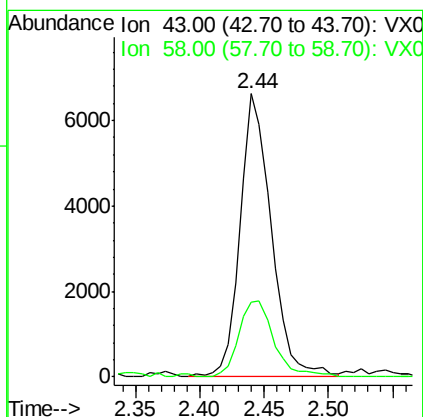
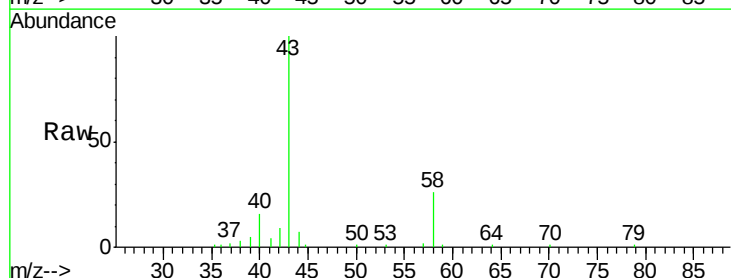
Instrument :
MSVOA_X
ClientSampled :
A5327

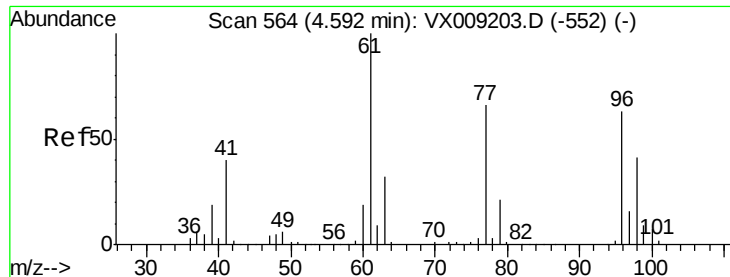
Tot Ion: 41 Resp: 1310
Ion Ratio Lower Upper
41 100
39 20.1 46.7 70.1#
76 0.0 21.8 32.8#



#16
Acetone
Concen: 7.402 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX009246.D
Acq: 30 Apr 2019 15:17

Tgt Ion: 43 Resp: 11121
Ion Ratio Lower Upper
43 100
58 26.4 24.9 37.3



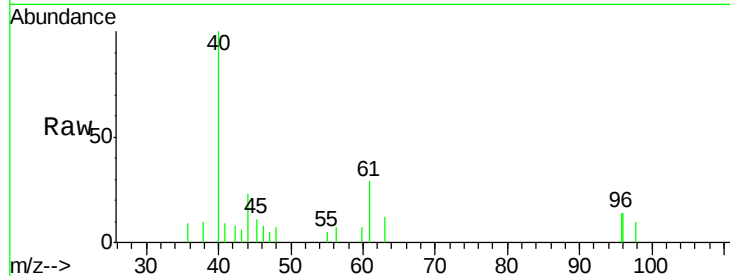


#27

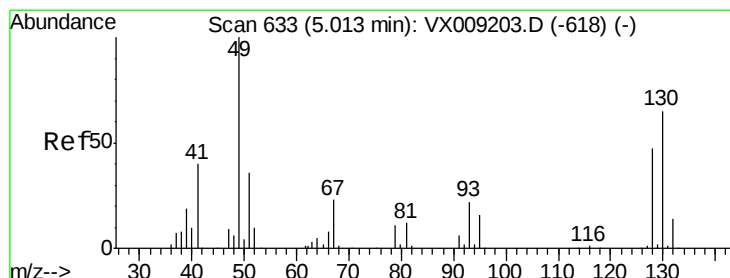
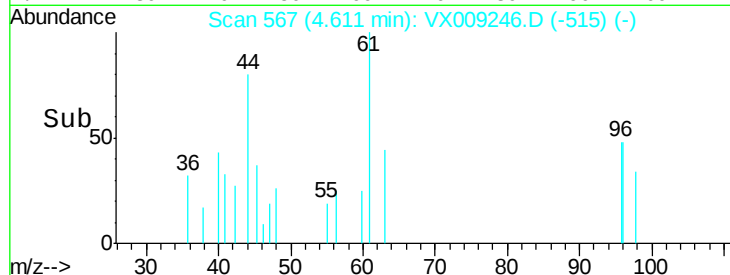
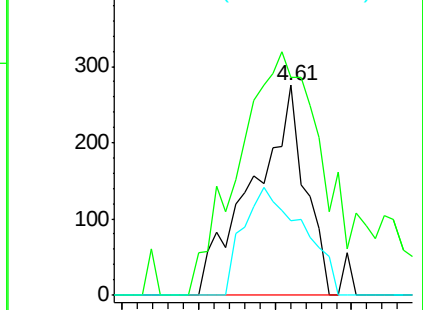
cis-1,2-Dichloroethene
 Concen: 0.262 ug/l
 RT: 4.61 min Scan# 567
 Delta R.T. 0.02 min
 Lab File: VX009246.D
 Acq: 30 Apr 2019 15:17

Instrument :
 MSVOA_X
 ClientSampled :
 A5327

Tot Ion: 96 Resp: 653
 Ion Ratio Lower Upper
 96 100
 61 195.6 0.0 324.0
 98 58.7 0.0 130.4



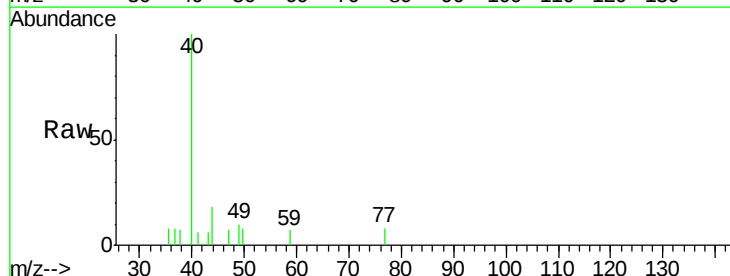
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



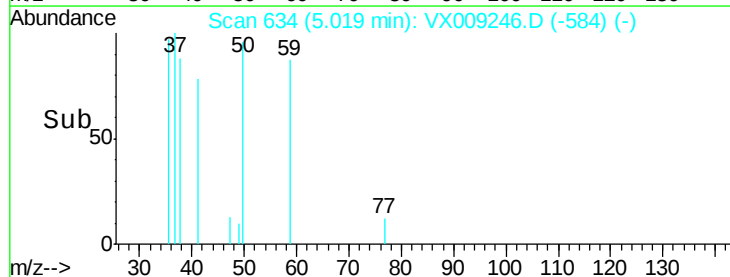
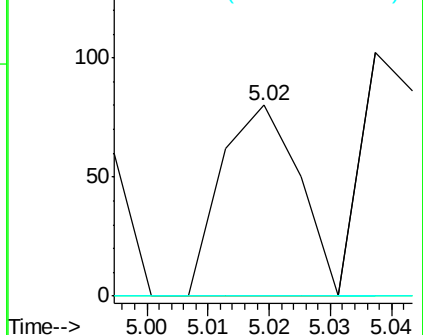
#28

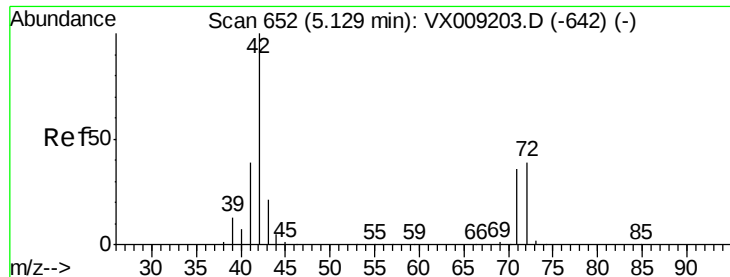
Bromochloromethane
 Concen: Below Cal
 RT: 5.02 min Scan# 634
 Delta R.T. 0.01 min
 Lab File: VX009246.D
 Acq: 30 Apr 2019 15:17

Tgt Ion: 49 Resp: 70
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 3.8
 130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0
 Ion 128.80 (128.50 to 129.50): V
 Ion 129.80 (129.50 to 130.50): V

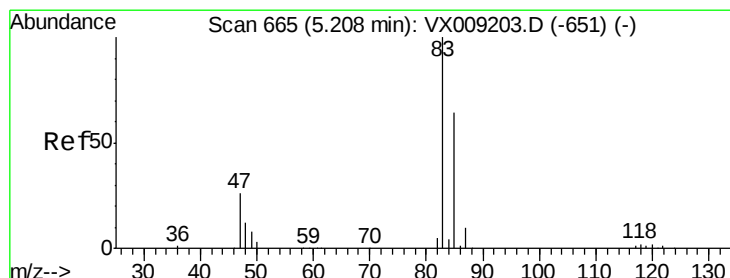
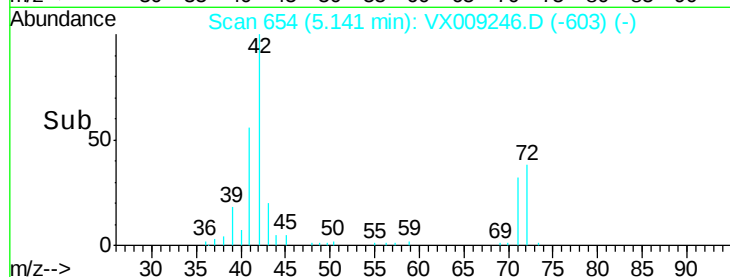
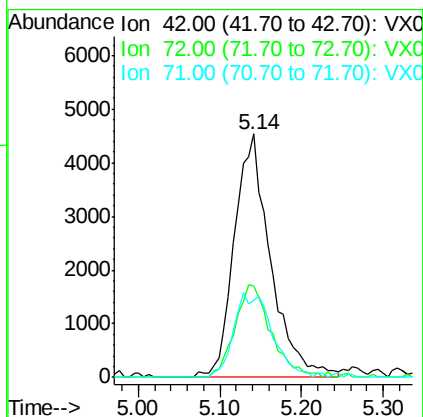
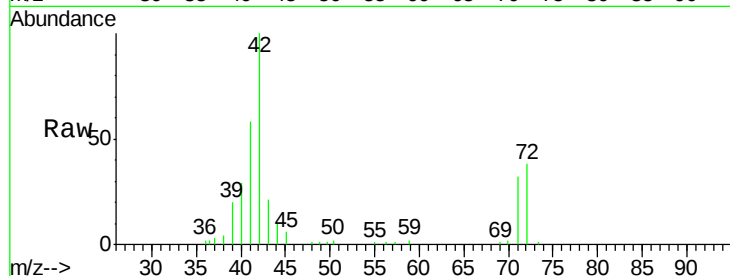




#29
Tetrahydrofuran
Concen: 9.287 ug/l
RT: 5.14 min Scan# 654
Delta R.T. 0.01 min
Lab File: VX009246.D
Acq: 30 Apr 2019 15:17

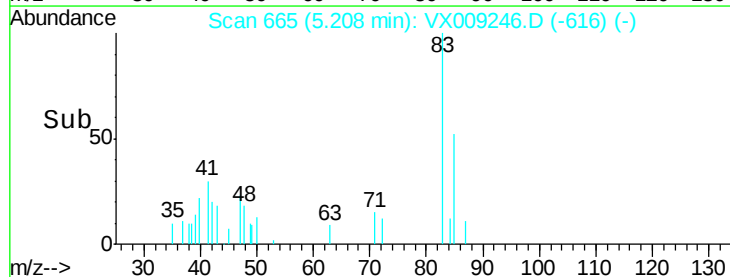
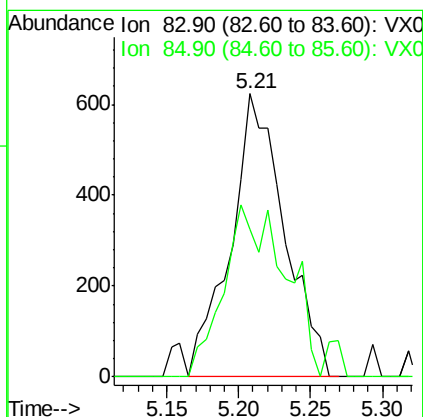
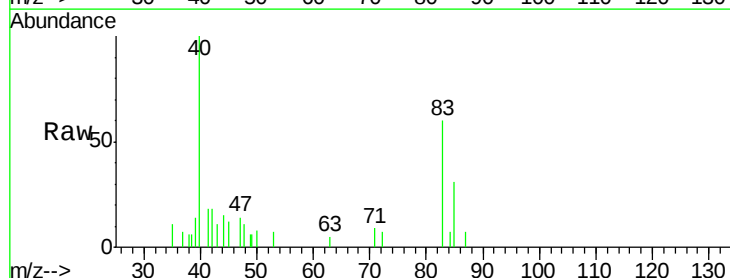
Instrument :
MSVOA_X
ClientSampleId :
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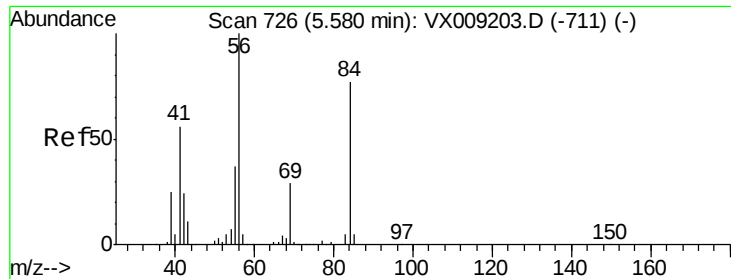
Tot Ion: 42 Resp: 13953
Ion Ratio Lower Upper
42 100
72 37.8 30.4 45.6
71 36.8 28.6 43.0



#30
Chloroform
Concen: 0.402 ug/l
RT: 5.21 min Scan# 665
Delta R.T. 0.00 min
Lab File: VX009246.D
Acq: 30 Apr 2019 15:17

Tgt Ion: 83 Resp: 1618
Ion Ratio Lower Upper
83 100
85 52.2 51.5 77.3

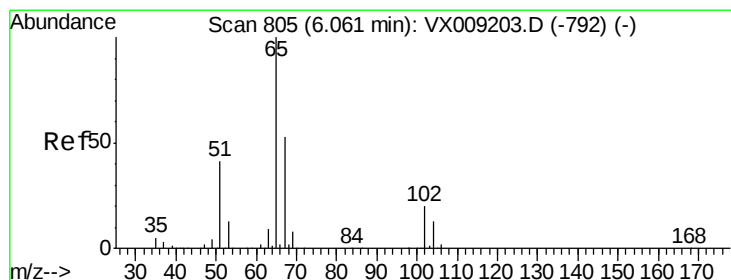
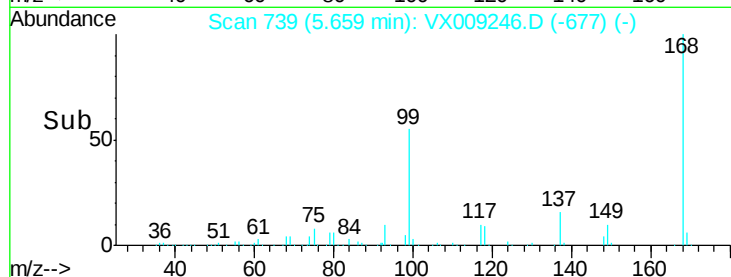
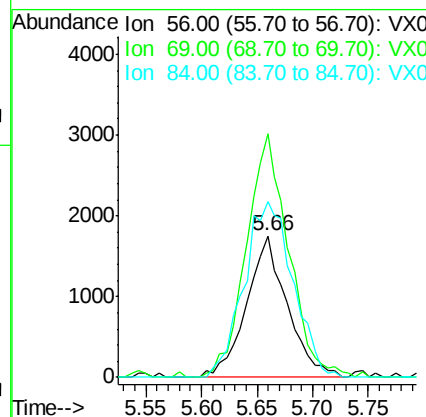
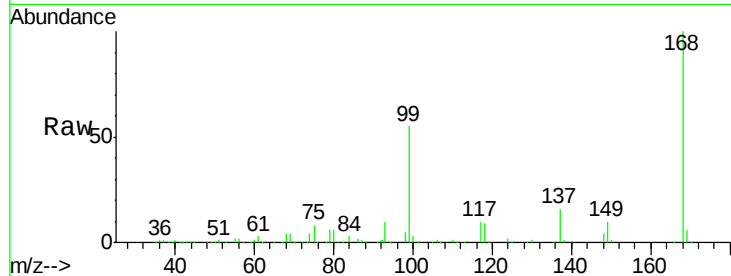




#31
Cyclohexane
Concen: 1.076 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX009246.D
Acq: 30 Apr 2019 15:17

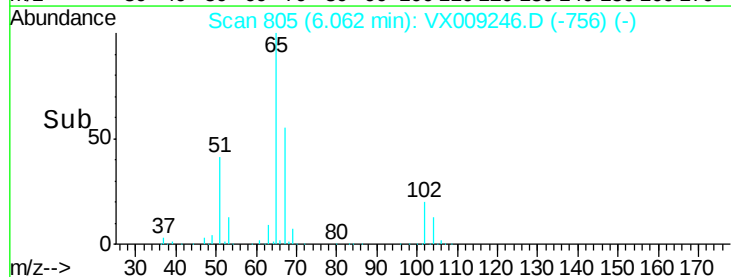
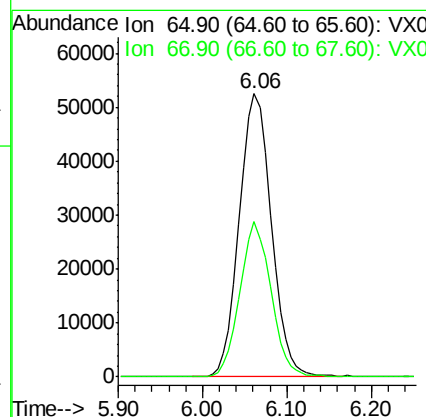
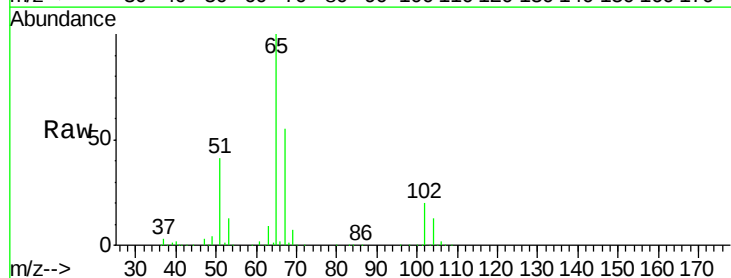
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ClientSampled :
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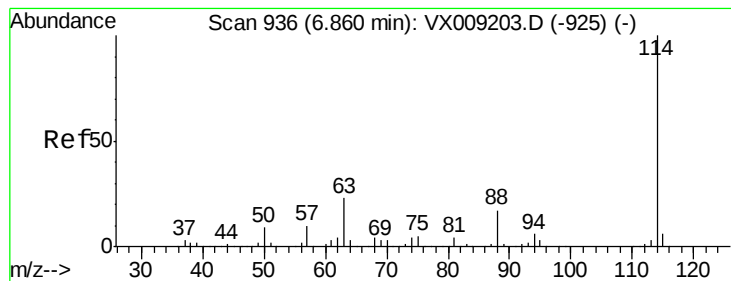
Tot Ion: 56 Resp: 4453
Ion Ratio Lower Upper
56 100
69 171.7 23.4 35.0#
84 123.6 61.9 92.9#



#33
1,2-Dichloroethane-d4
Concen: 48.484 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX009246.D
Acq: 30 Apr 2019 15:17

Tgt Ion: 65 Resp: 135662
Ion Ratio Lower Upper
65 100
67 53.4 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX009246.D

Acq: 30 Apr 2019 15:17

Instrument :

MSVOA_X

ClientSampleId :

A5327

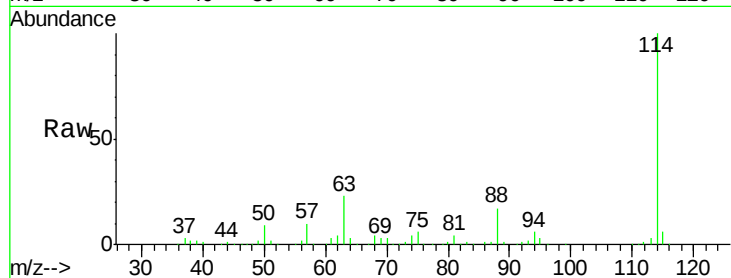
Tot Ion:114 Resp: 332486

Ion Ratio Lower Upper

114 100

63 22.7 0.0 45.6

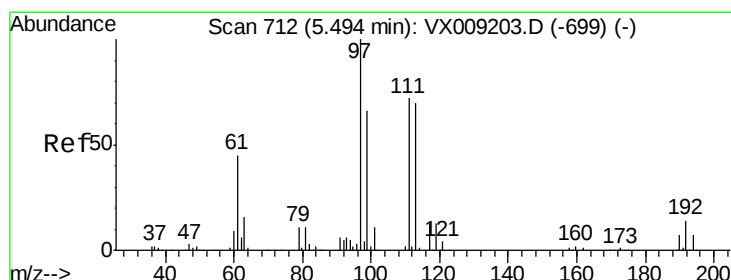
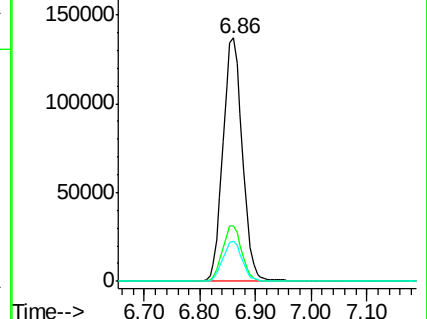
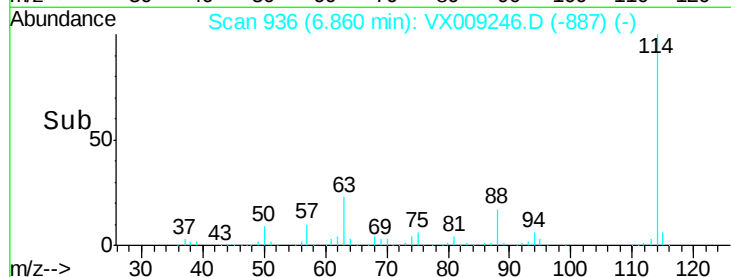
88 16.5 0.0 33.2



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: 47.794 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX009246.D

Acq: 30 Apr 2019 15:17

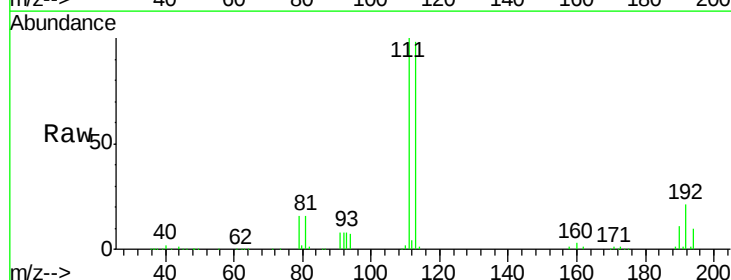
Tgt Ion:113 Resp: 99897

Ion Ratio Lower Upper

113 100

111 102.7 82.8 124.2

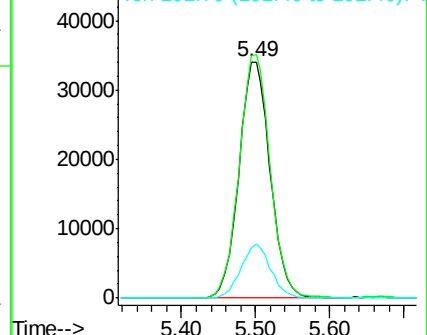
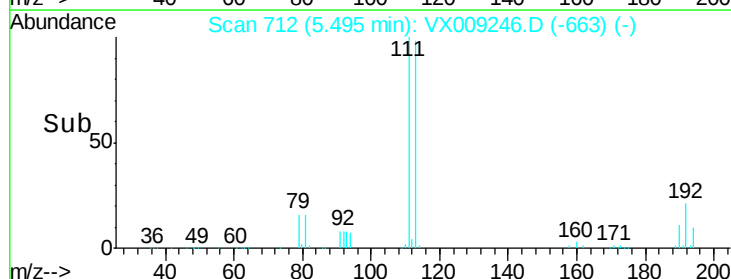
192 21.9 17.0 25.6

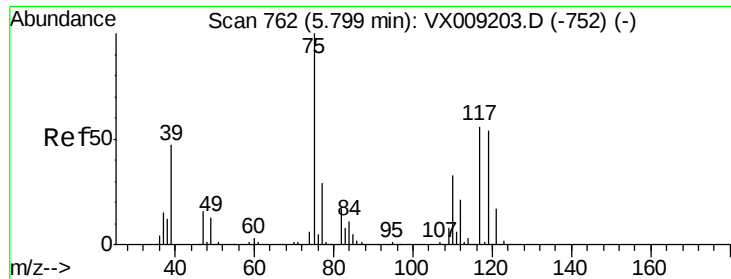


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.161 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009246.D

Acq: 30 Apr 2019 15:17

Instrument :

MSVOA_X

ClientSampleId :

A5327

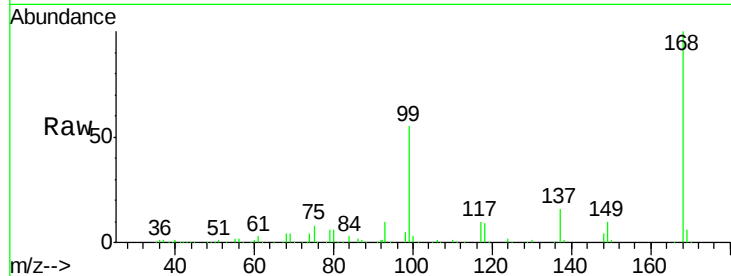
Tot Ion: 75 Resp: 15948

Ion Ratio Lower Upper

75 100

110 8.8 16.9 50.6#

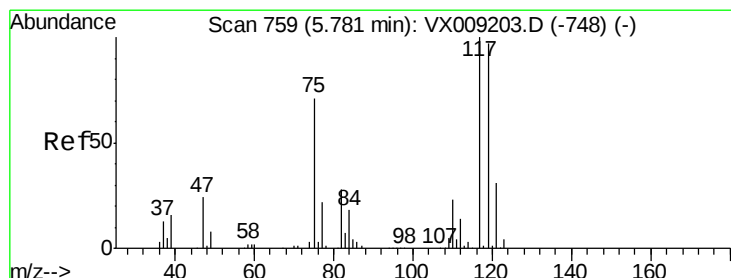
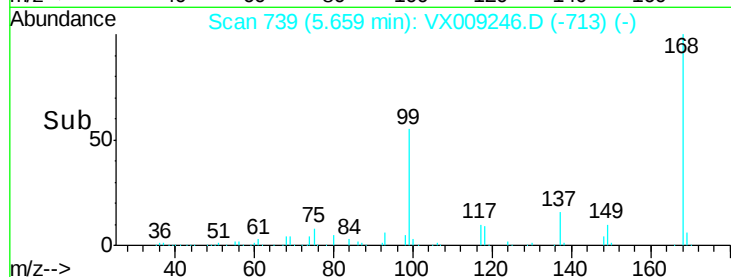
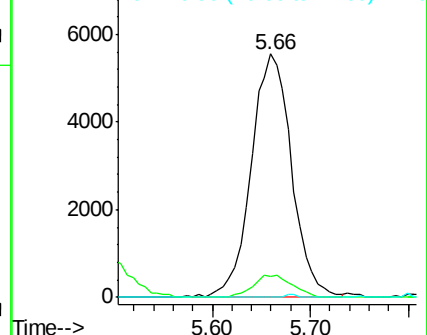
77 0.0 24.8 37.2#



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: 6.827 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009246.D

Acq: 30 Apr 2019 15:17

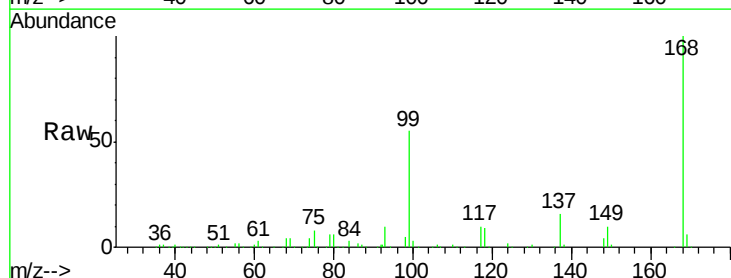
Tgt Ion: 117 Resp: 19166

Ion Ratio Lower Upper

117 100

119 5.1 77.5 116.3#

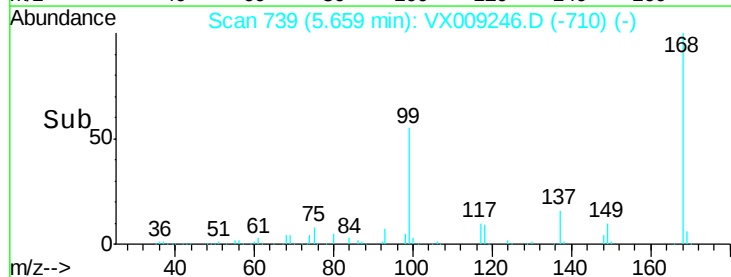
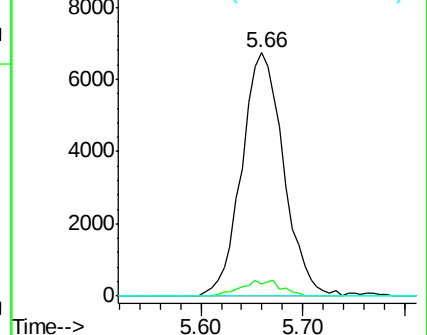
121 0.0 24.7 37.1#

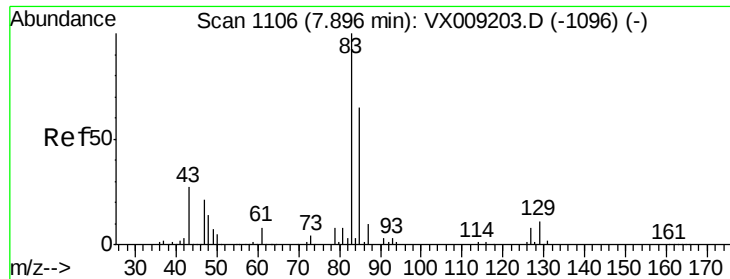


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#47

Bromodichloromethane

Concen: 0.340 ug/l

RT: 7.90 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VX009246.D

Acq: 30 Apr 2019 15:17

Instrument :

MSVOA_X

ClientSampleId :

A5327

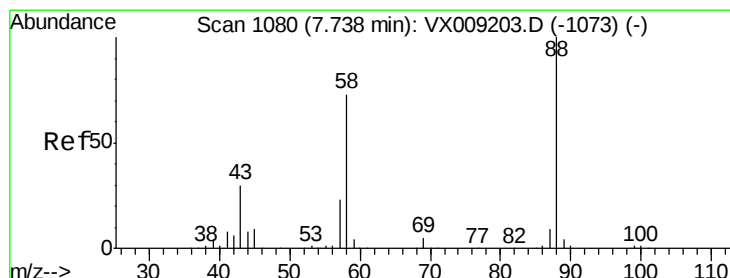
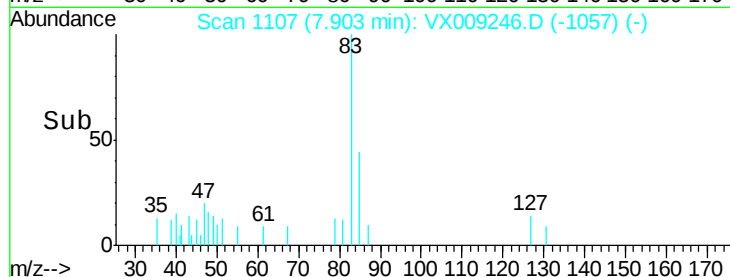
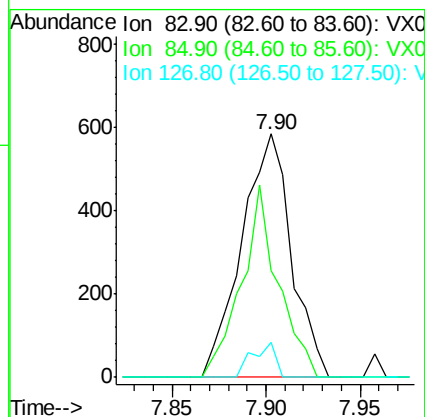
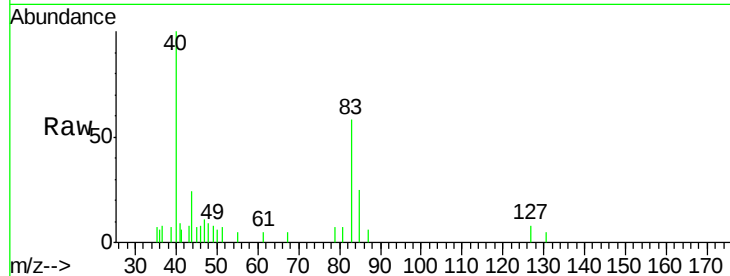
Tot Ion: 83 Resp: 1065

Ion Ratio Lower Upper

83 100

85 43.8 52.4 78.6#

127 14.0 6.6 10.0#



#49

1,4-Dioxane

Concen: 0.289 ug/l

RT: 7.54 min Scan# 1047

Delta R.T. -0.20 min

Lab File: VX009246.D

Acq: 30 Apr 2019 15:17

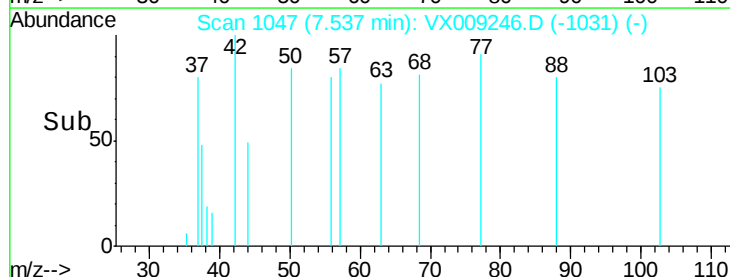
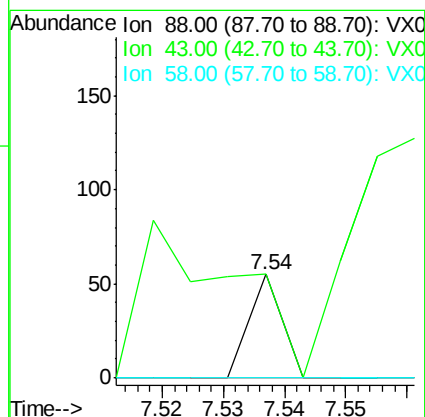
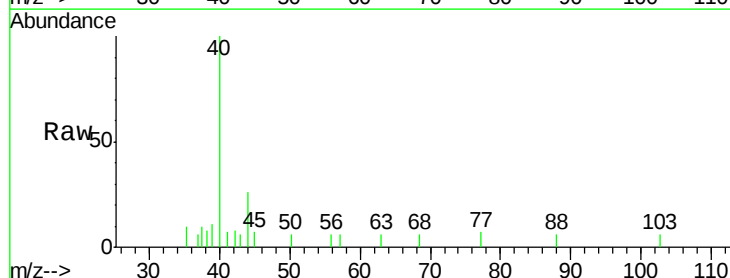
Tgt Ion: 88 Resp: 20

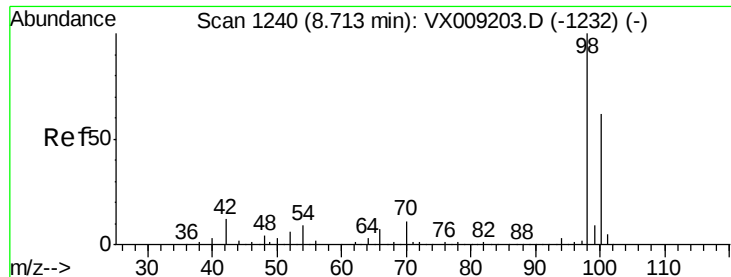
Ion Ratio Lower Upper

88 100

43 445.0 28.6 42.8#

58 0.0 61.7 92.5#





#50

Toluene-d8

Concen: 49.112 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009246.D

Acq: 30 Apr 2019 15:17

Instrument :

MSVOA_X

ClientSampled :

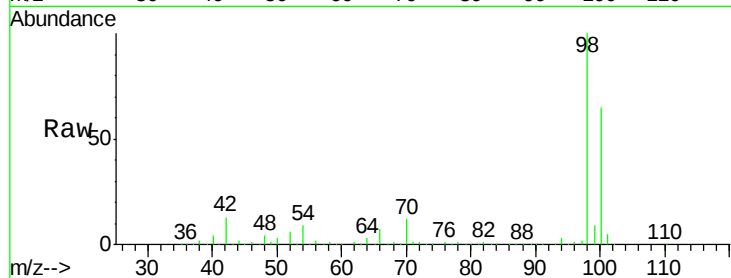
A5327

Tot Ion: 98 Resp: 414431

Ion Ratio Lower Upper

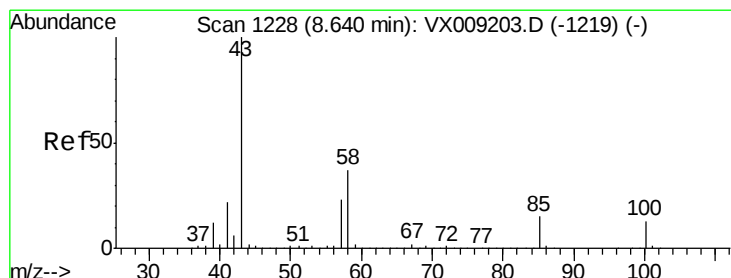
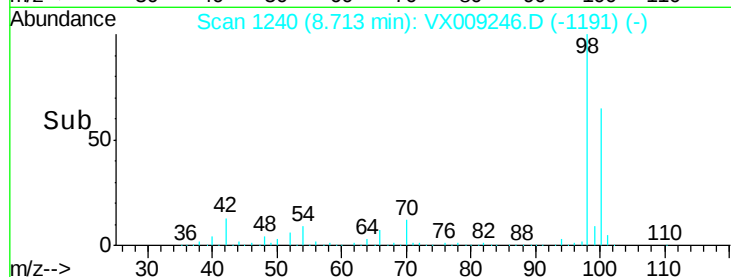
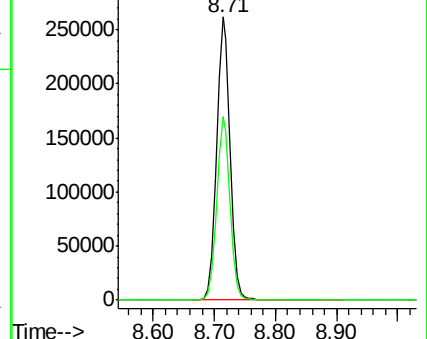
98 100

100 64.0 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 0.623 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VX009246.D

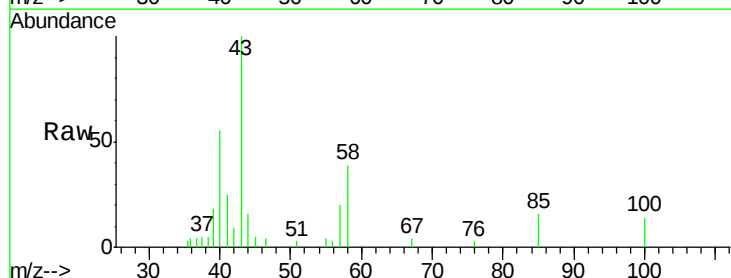
Acq: 30 Apr 2019 15:17

Tgt Ion: 43 Resp: 2806

Ion Ratio Lower Upper

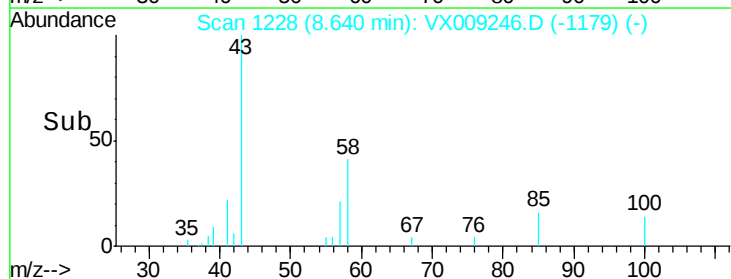
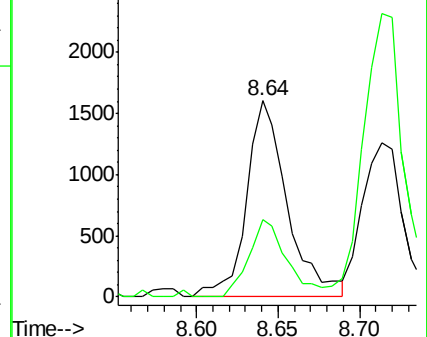
43 100

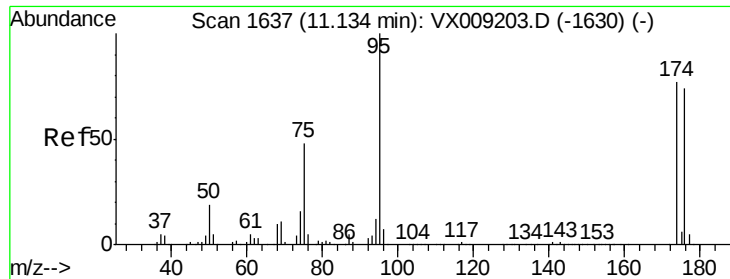
58 36.8 29.5 44.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 44.810 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009246.D

Acq: 30 Apr 2019 15:17

Instrument :

MSVOA_X

ClientSampled :

A5327

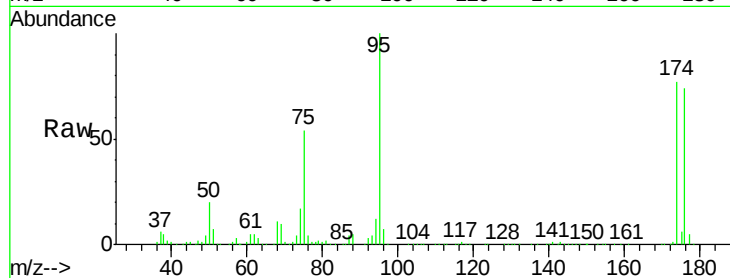
Tot Ion: 95 Resp: 137397

Ion Ratio Lower Upper

95 100

174 82.2 0.0 161.6

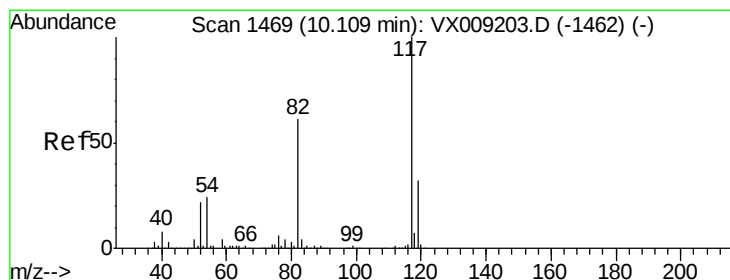
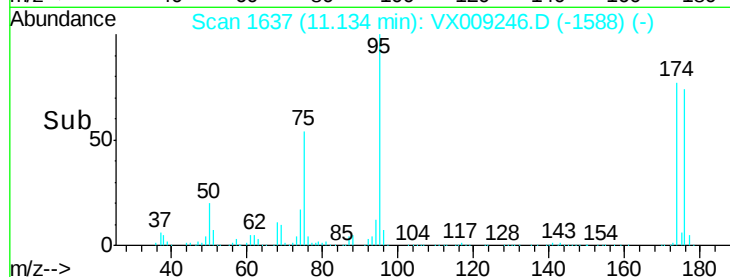
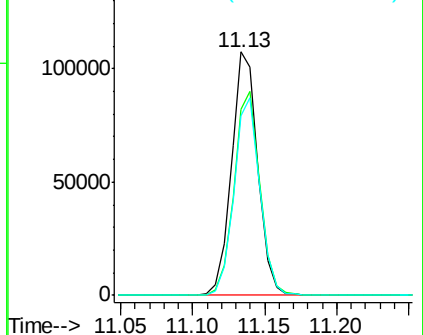
176 79.4 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009246.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009246.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009246.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009246.D

Acq: 30 Apr 2019 15:17

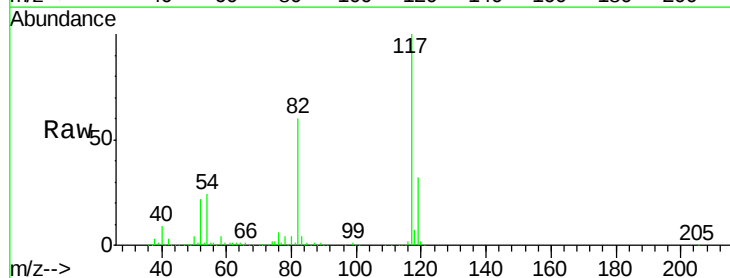
Tgt Ion: 117 Resp: 288417

Ion Ratio Lower Upper

117 100

82 60.4 48.8 73.2

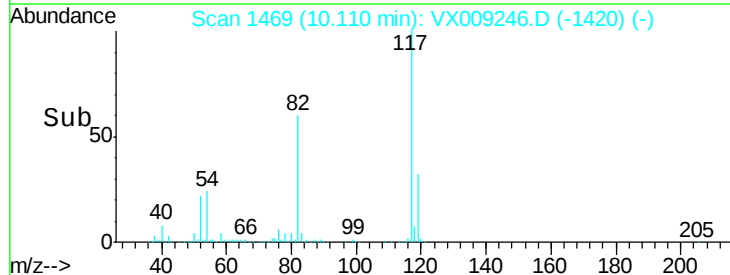
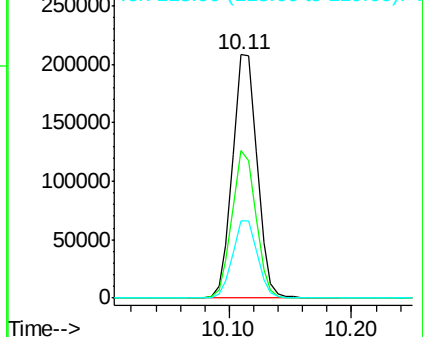
119 31.7 25.8 38.6

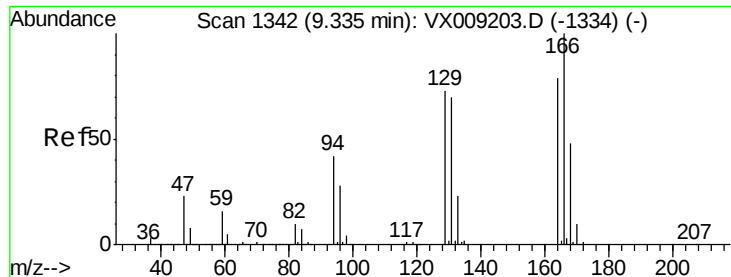


Abundance Ion 116.90 (116.60 to 117.60): VX009246.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009246.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009246.D (-1420) (-)





#64

Tetrachloroethene

Concen: 0.846 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX009246.D

Acq: 30 Apr 2019 15:17

Instrument :

MSVOA_X

ClientSampleId :

A5327

Tot Ion:164 Resp: 1673

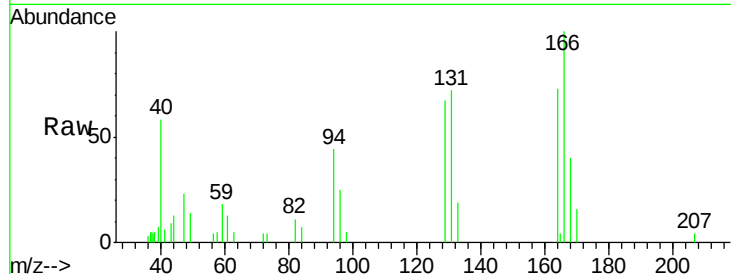
Ion Ratio Lower Upper

164 100

166 137.6 101.2 151.8

129 92.3 74.3 111.5

131 99.1 71.0 106.6

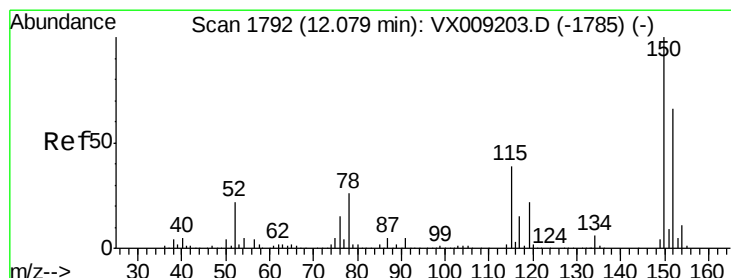
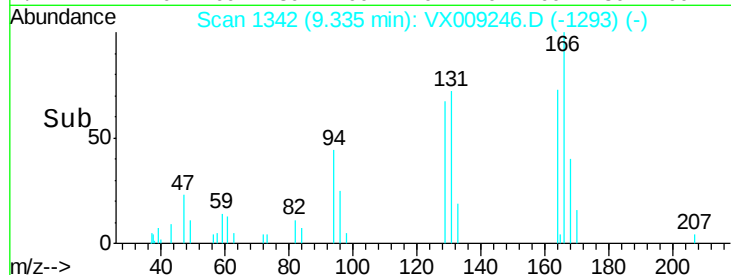
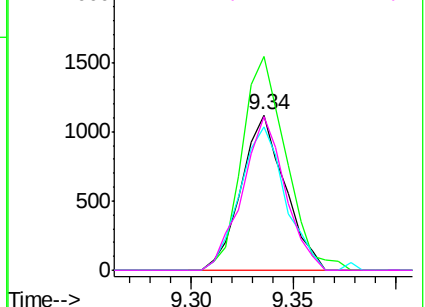


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009246.D

Acq: 30 Apr 2019 15:17

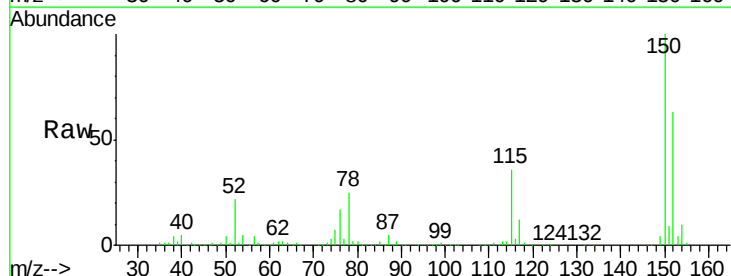
Tgt Ion:152 Resp: 123811

Ion Ratio Lower Upper

152 100

115 59.0 41.2 123.6

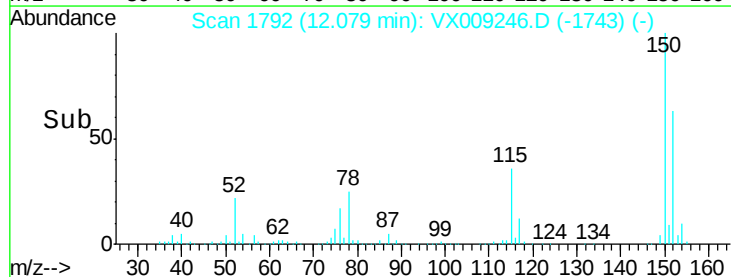
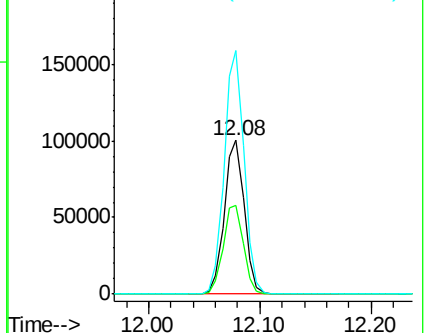
150 157.9 0.0 346.4

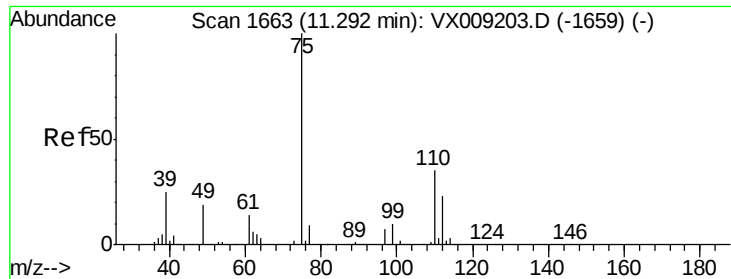


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

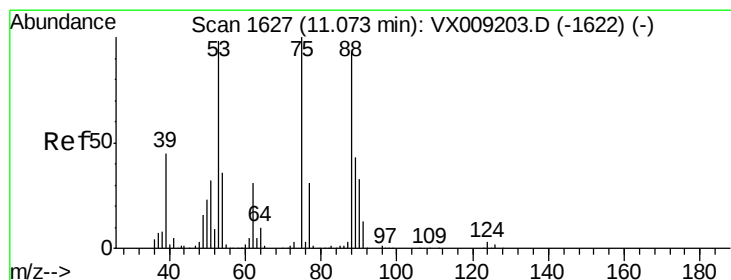
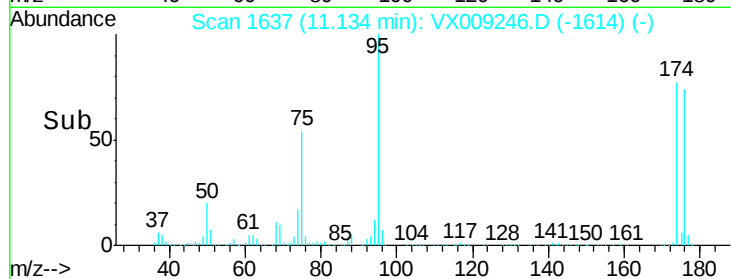
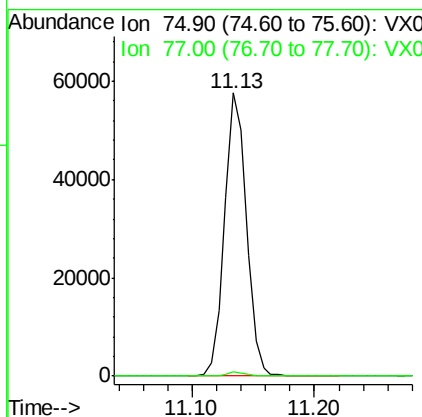
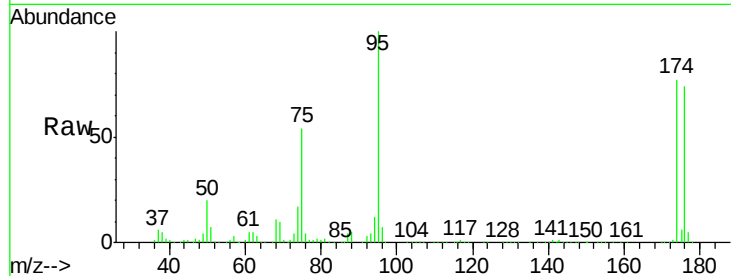




#76
 1,2,3-Trichloropropane
 Concen: 24.901 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX009246.D
 Acq: 30 Apr 2019 15:17

Instrument :
 MSVOA_X
 ClientSampleId :
 A5327

Tot Ion: 75 Resp: 71516
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.1 66.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.714 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX009246.D
 Acq: 30 Apr 2019 15:17

Tgt Ion: 75 Resp: 71516
 Ion Ratio Lower Upper
 75 100
 53 0.1 79.0 118.6#
 89 0.0 34.7 52.1#

