

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX030119\
 Data File : VX007792.D
 Acq On : 01 Mar 2019 16:20
 Operator : JC/SP
 Sample : K1701-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T4A-OZ(PRE)

Quant Time: Mar 01 22:20:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 01:53:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	321562	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	497608	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	475180	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	227343	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	184458	46.31	ug/l	0.00
Spiked Amount			Recovery	=	92.62%	
35) Dibromofluoromethane	5.51	113	162307	48.79	ug/l	0.00
Spiked Amount			Recovery	=	97.58%	
50) Toluene-d8	8.71	98	610059	47.91	ug/l	0.00
Spiked Amount			Recovery	=	95.82%	
62) 4-Bromofluorobenzene	11.13	95	220158	47.10	ug/l	0.00
Spiked Amount			Recovery	=	94.20%	

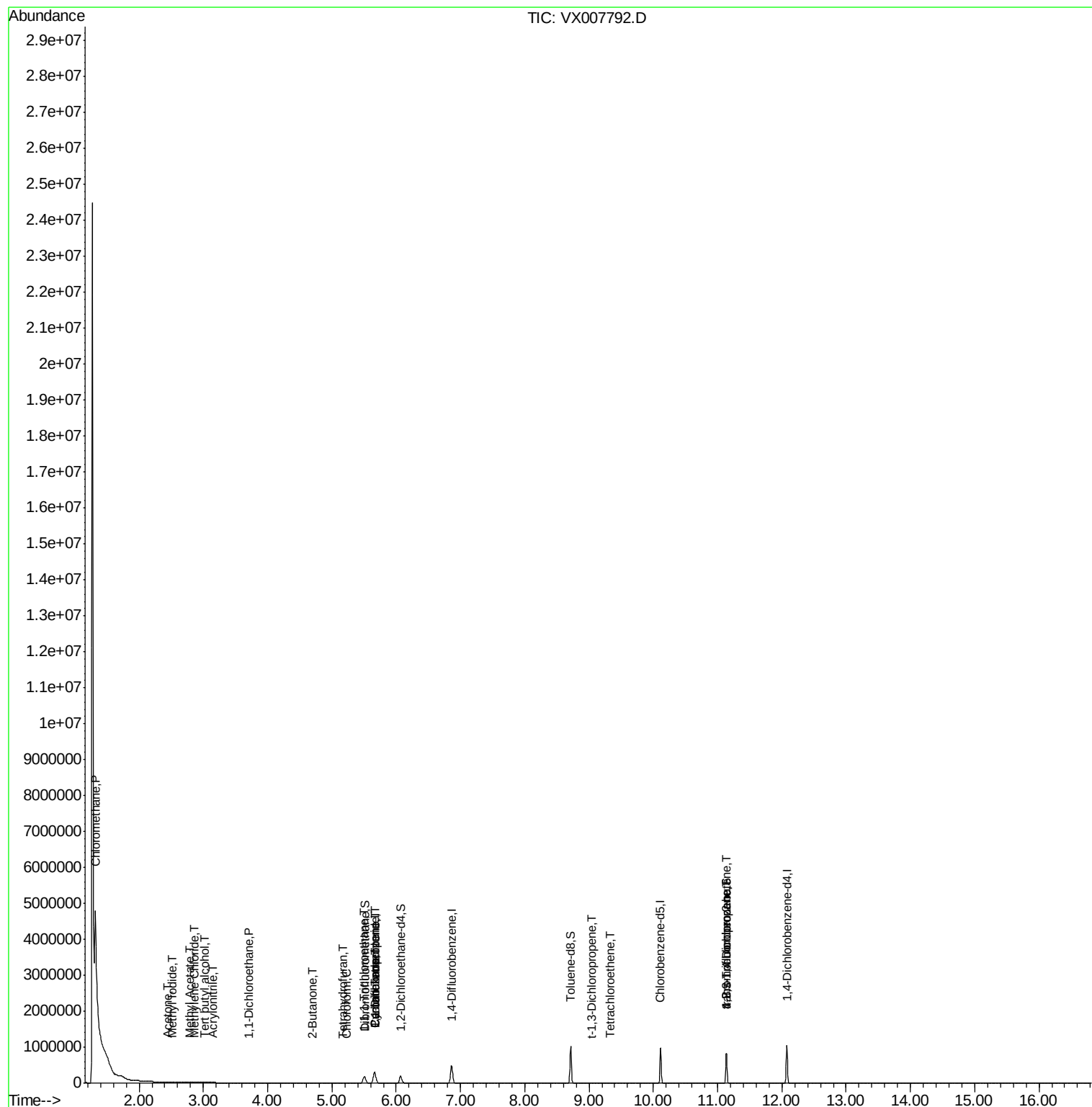
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	312373	95.161	ug/l #	43
5) Bromomethane	1.65	94	2457	Below Cal		94
10) Methyl Iodide	2.53	142	2748	0.707	ug/l #	94
11) Tert butyl alcohol	3.03	59	1660	2.197	ug/l #	83
15) Acrylonitrile	3.14	53	371	0.209	ug/l #	79
16) Acetone	2.45	43	4222	2.384	ug/l	93
18) Methyl Acetate	2.78	43	2009	0.520	ug/l	94
20) Methylene Chloride	2.87	84	834	0.255	ug/l	89
24) 1,1-Dichloroethane	3.70	63	5929	1.008	ug/l	98
25) 2-Butanone	4.70	43	1545	0.573	ug/l	94
29) Tetrahydrofuran	5.17	42	1789	1.006	ug/l #	71
30) Chloroform	5.22	83	1689	0.268	ug/l	88
31) Cyclohexane	5.66	56	5096	0.921	ug/l #	1
32) 1,1,1-Trichloroethane	5.49	97	2170	0.416	ug/l #	45
36) 1,1-Dichloropropene	5.66	75	20386	4.557	ug/l #	48
38) Carbon Tetrachloride	5.67	117	27763	6.178	ug/l #	17
53) t-1,3-Dichloropropene	9.05	75	89	2.818	ug/l #	43
64) Tetrachloroethene	9.34	164	1005	0.261	ug/l	92
76) 1,2,3-Trichloropropane	11.13	75	103849	21.430	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	103849	56.980	ug/l #	9

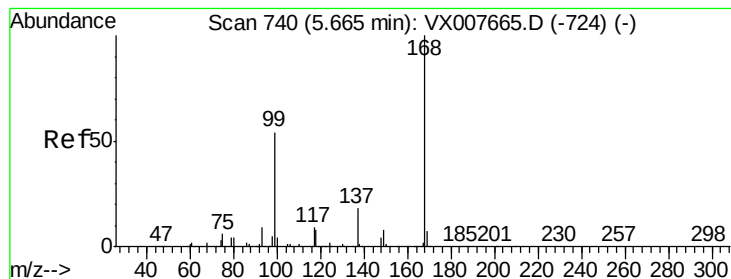
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X022519W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 26 01:53:13 2019
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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: VX007792.D

Acq: 01 Mar 2019 16:20

Instrument :

MSVOA_X

ClientSampleId :

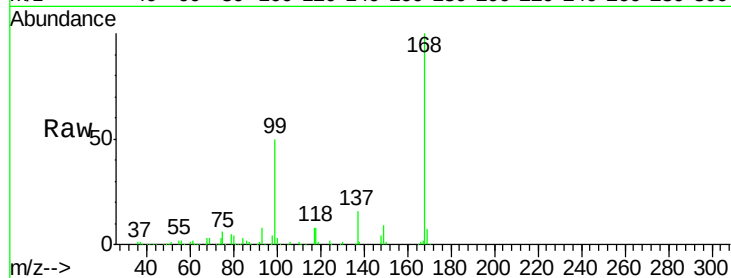
M1-T4A-OZ(PRE)

Tot Ion:168 Resp: 321562

Ion Ratio Lower Upper

168 100

99 49.6 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

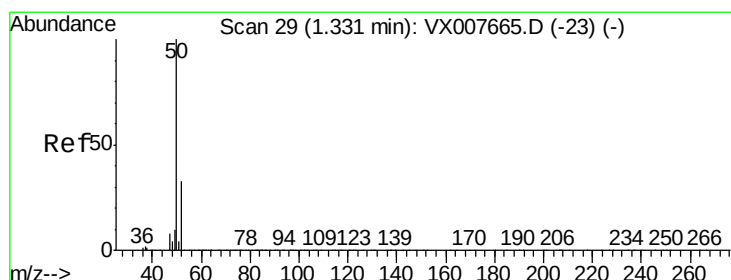
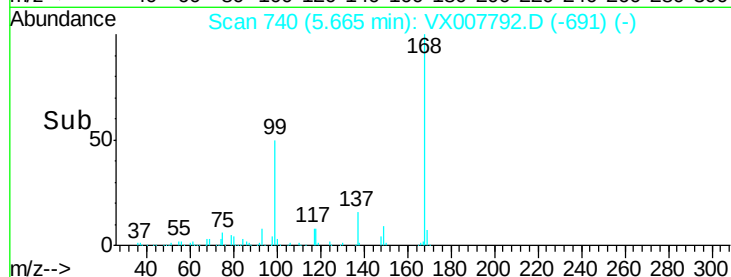
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80 5.90



#3

Chloromethane

Concen: 95.161 ug/l

RT: 1.32 min Scan# 27

Delta R.T. -0.01 min

Lab File: VX007792.D

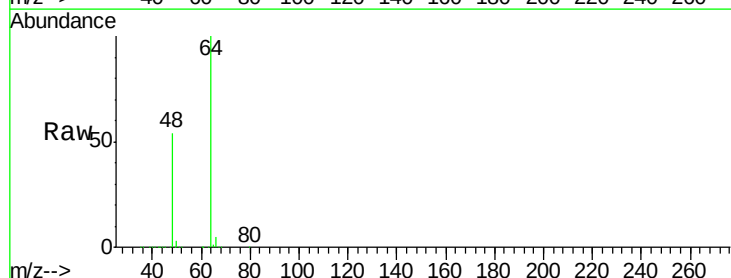
Acq: 01 Mar 2019 16:20

Tgt Ion: 50 Resp: 312373

Ion Ratio Lower Upper

50 100

52 0.5 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800000

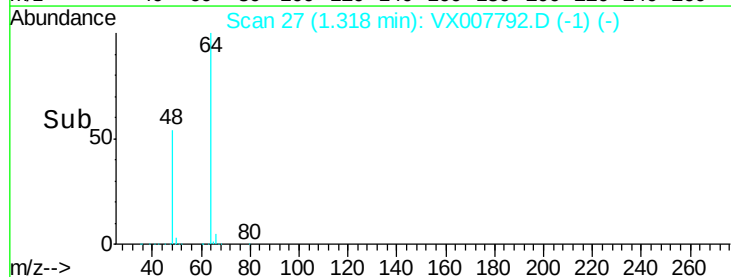
600000

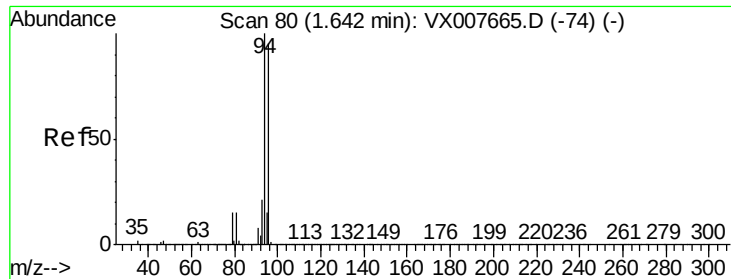
400000

200000

0

Time--> 1.20 1.40 1.60





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX007792.D

Acq: 01 Mar 2019 16:20

Instrument :

MSVOA_X

ClientSampleId :

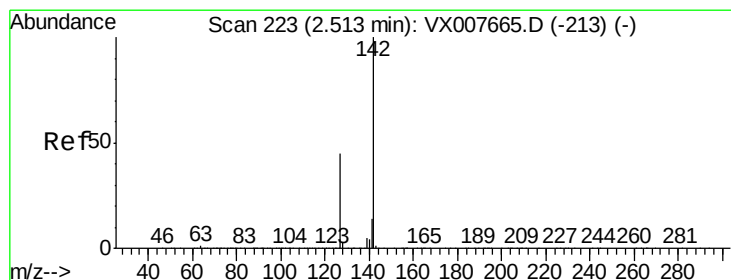
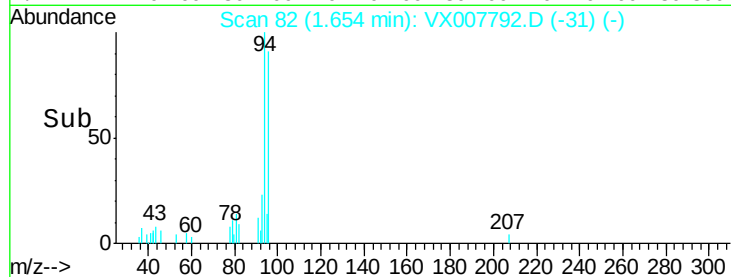
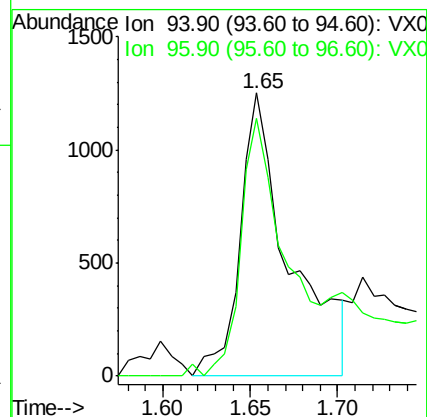
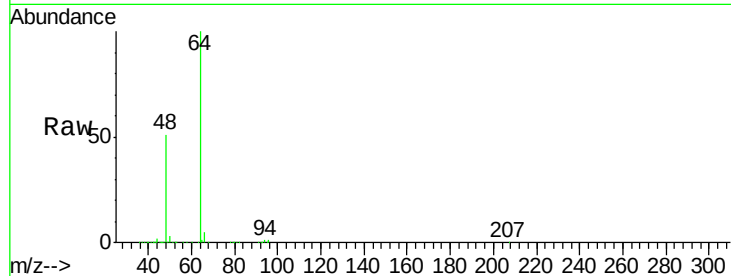
M1-T4A-OZ(PRE)

Tot Ion: 94 Resp: 2457

Ion Ratio Lower Upper

94 100

96 86.6 73.9 110.9



#10

Methyl Iodide

Concen: 0.707 ug/l

RT: 2.53 min Scan# 225

Delta R.T. 0.01 min

Lab File: VX007792.D

Acq: 01 Mar 2019 16:20

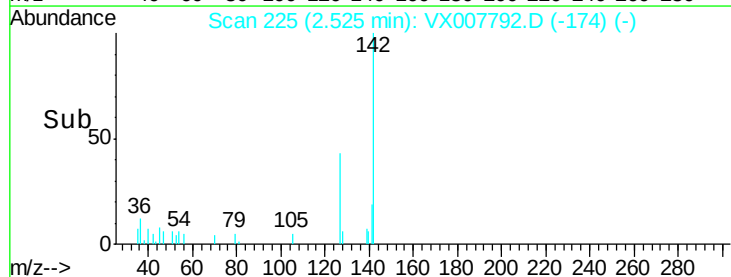
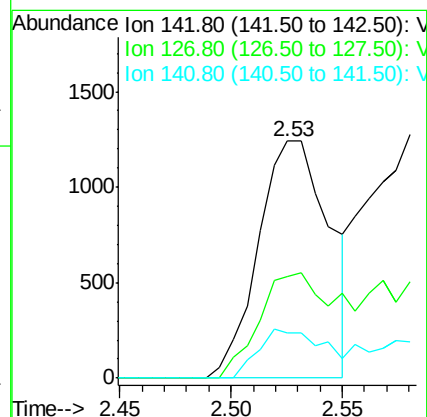
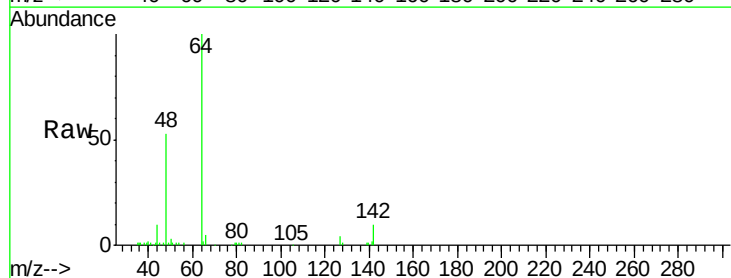
Tgt Ion: 142 Resp: 2748

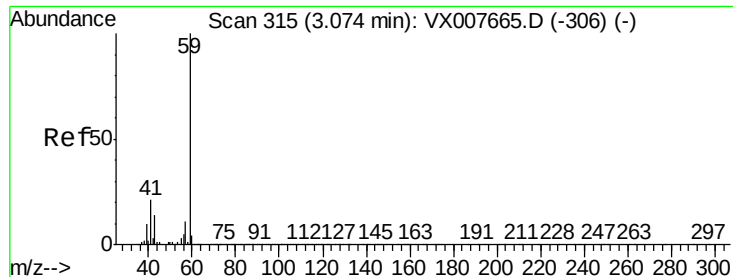
Ion Ratio Lower Upper

142 100

127 39.9 33.7 50.5

141 19.3 11.3 16.9#



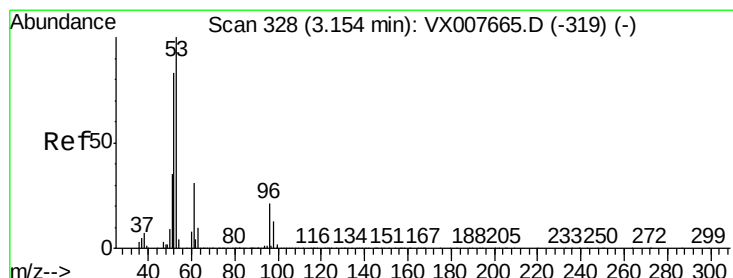
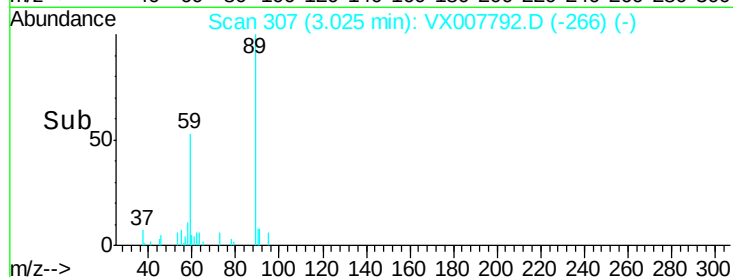
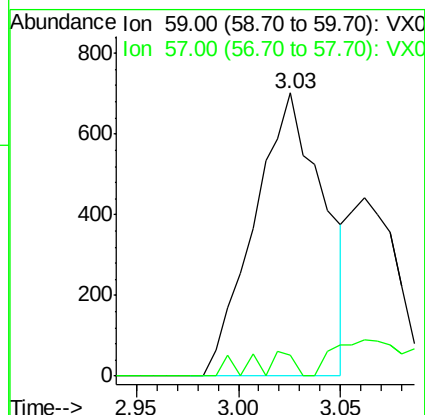
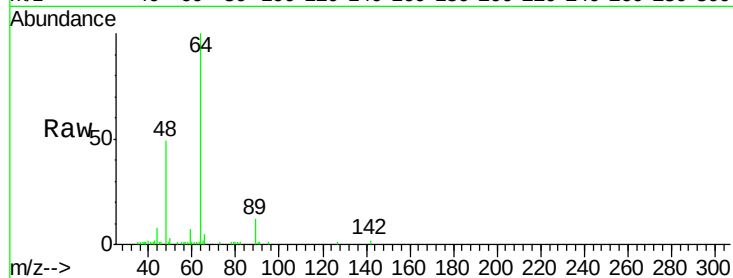


#11

Tert butyl alcohol
 Concen: 2.197 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.05 min
 Lab File: VX007792.D
 Acq: 01 Mar 2019 16:20

Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T4A-OZ(PRE)

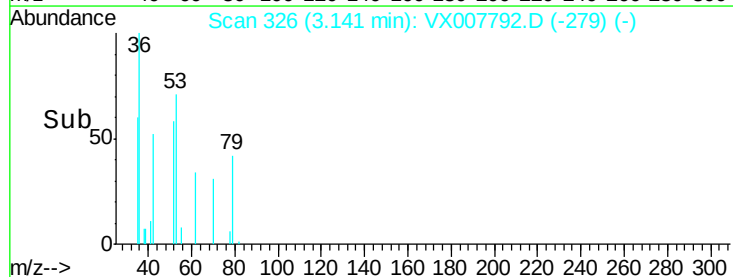
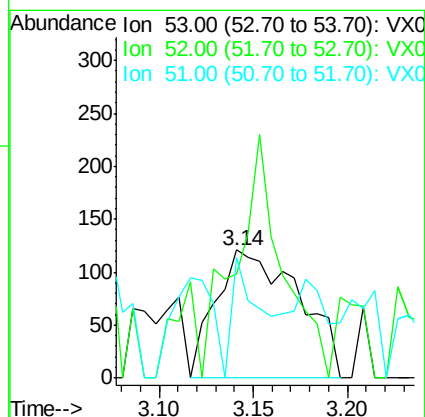
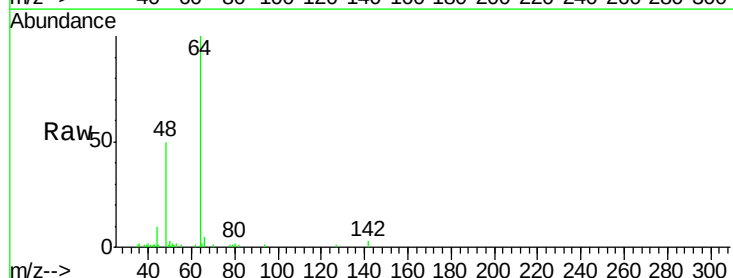
Tot Ion: 59 Resp: 1660
 Ion Ratio Lower Upper
 59 100
 57 3.7 8.1 12.1#

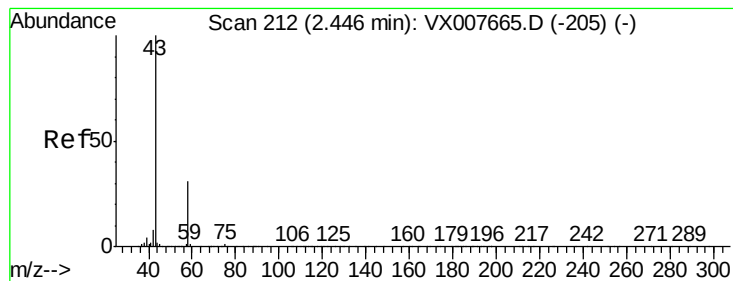


#15

Acrylonitrile
 Concen: 0.209 ug/l
 RT: 3.14 min Scan# 326
 Delta R.T. -0.01 min
 Lab File: VX007792.D
 Acq: 01 Mar 2019 16:20

Tgt Ion: 53 Resp: 371
 Ion Ratio Lower Upper
 53 100
 52 107.0 66.4 99.6#
 51 30.7 28.4 42.6





#16

Acetone

Concen: 2.384 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007792.D

Acq: 01 Mar 2019 16:20

Instrument :

MSVOA_X

ClientSampleId :

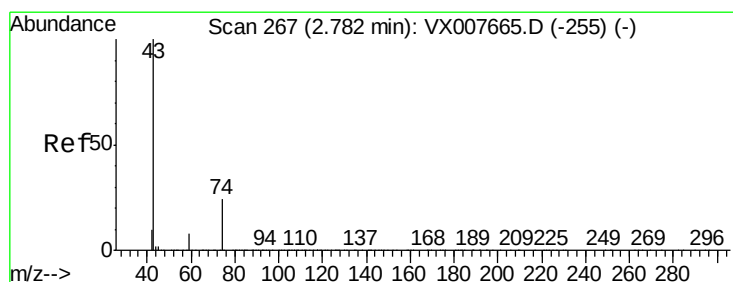
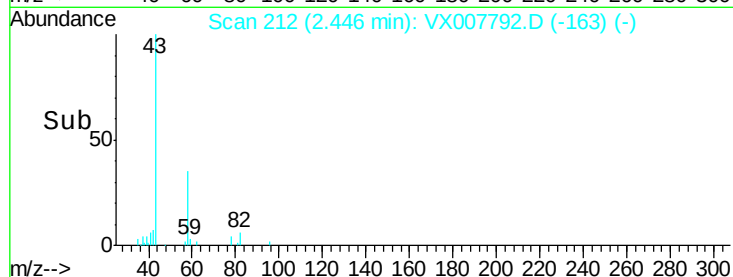
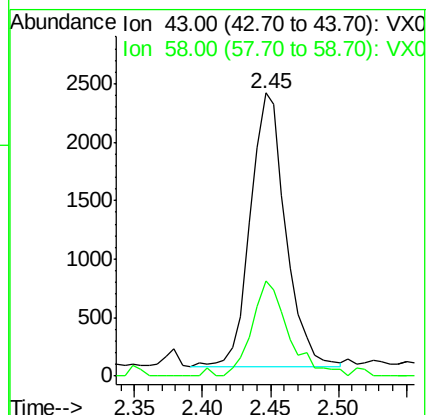
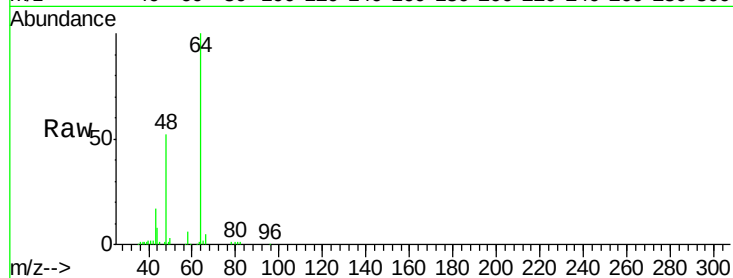
M1-T4A-OZ(PRE)

Tot Ion: 43 Resp: 4222

Ion Ratio Lower Upper

43 100

58 34.9 24.9 37.3



#18

Methyl Acetate

Concen: 0.520 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX007792.D

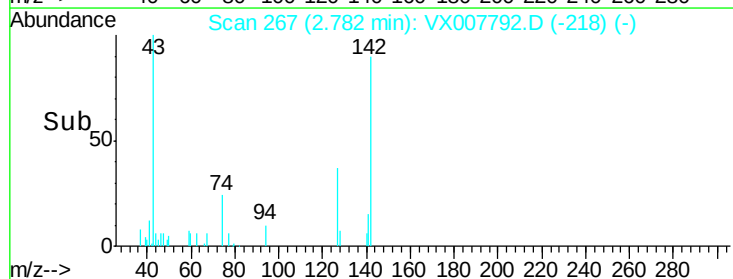
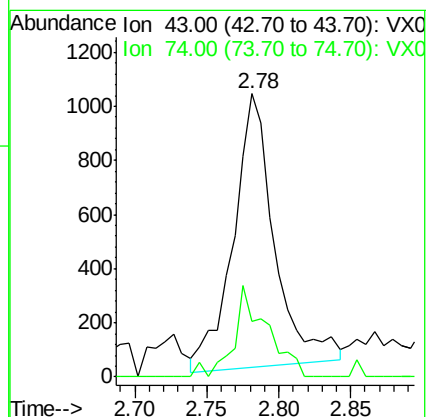
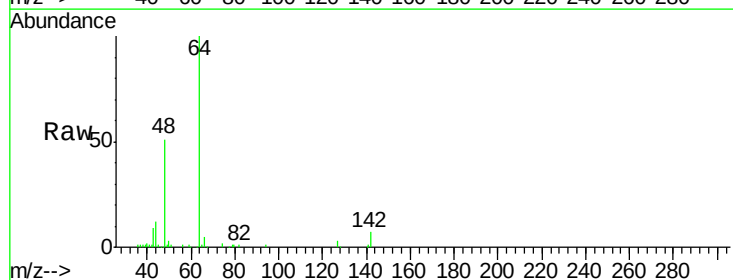
Acq: 01 Mar 2019 16:20

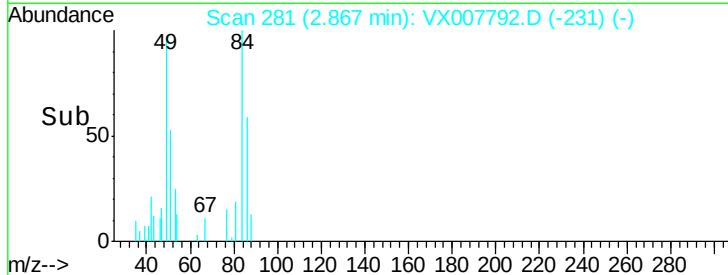
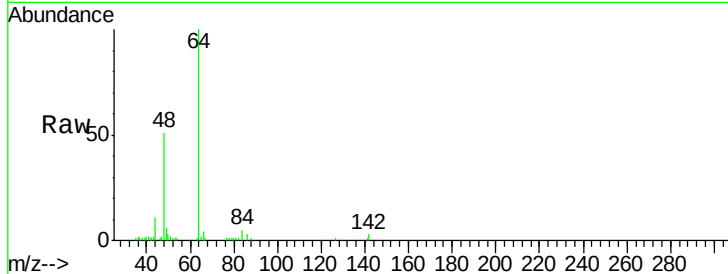
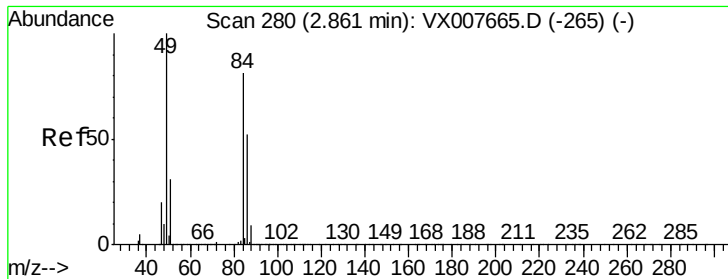
Tgt Ion: 43 Resp: 2009

Ion Ratio Lower Upper

43 100

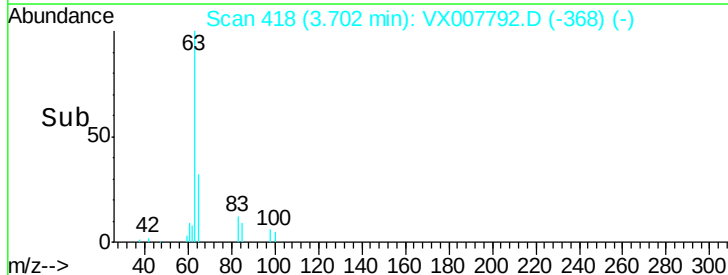
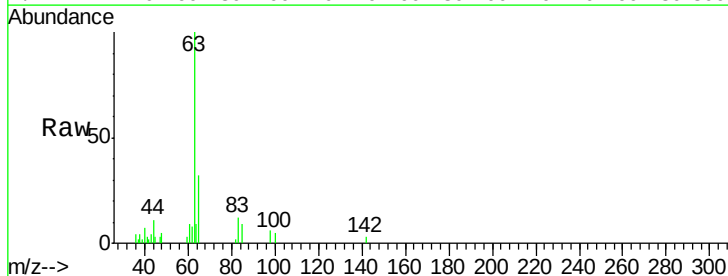
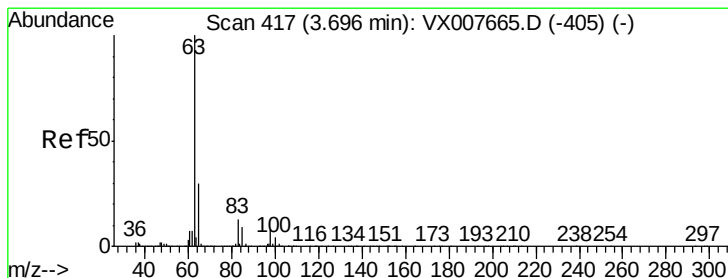
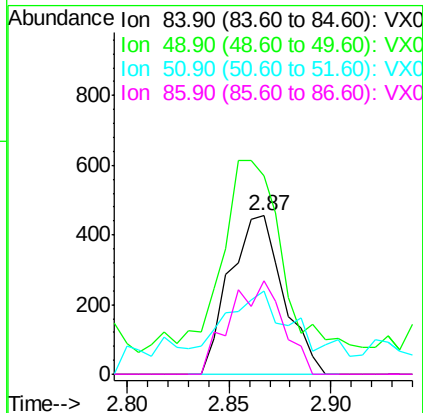
74 27.1 19.4 29.2





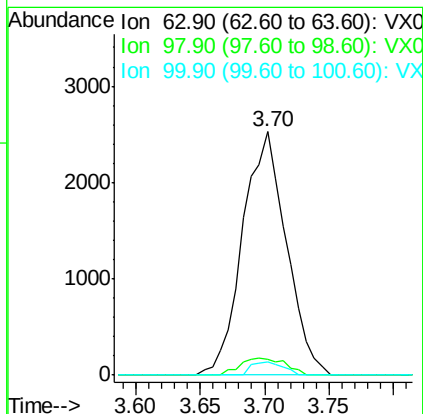
#20
Methylene Chloride
Concen: 0.255 ug/l
RT: 2.87 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX007792.D
Acq: 01 Mar 2019 16:20

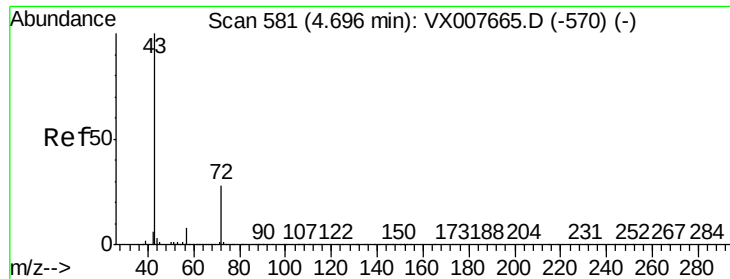
Tot Ion:	84	Resp:	834
Ion	Ratio	Lower	Upper
84	100		
49	102.2	94.8	142.2
51	36.5	29.8	44.8
86	58.9	54.1	81.1



#24
1,1-Dichloroethane
Concen: 1.008 ug/l
RT: 3.70 min Scan# 418
Delta R.T. 0.01 min
Lab File: VX007792.D
Acq: 01 Mar 2019 16:20

Tgt Ion:	63	Resp:	5929
Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.6	10.8
100	5.3	2.5	7.4





#25

2-Butanone

Concen: 0.573 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.00 min

Lab File: VX007792.D

Acq: 01 Mar 2019 16:20

Instrument :

MSVOA_X

ClientSampleId :

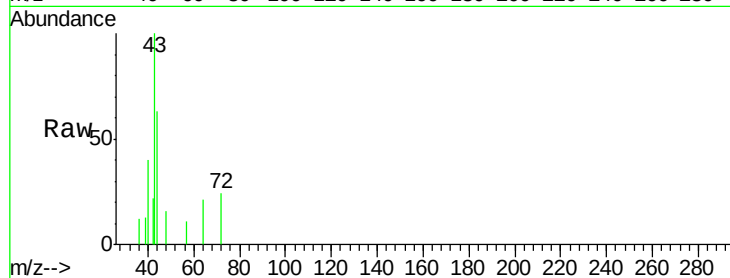
M1-T4A-OZ(PRE)

Tot Ion: 43 Resp: 1545

Ion Ratio Lower Upper

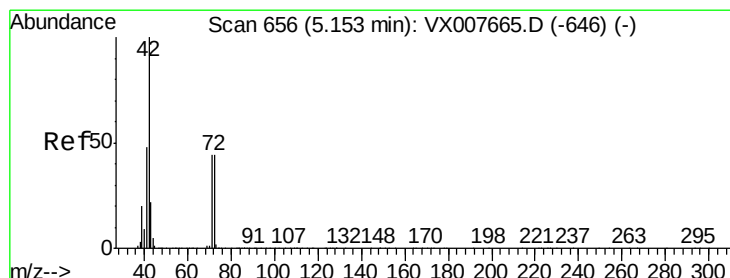
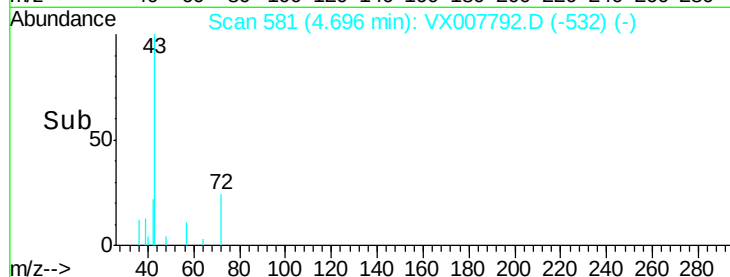
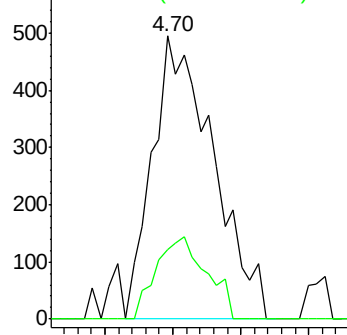
43 100

72 24.4 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 1.006 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX007792.D

Acq: 01 Mar 2019 16:20

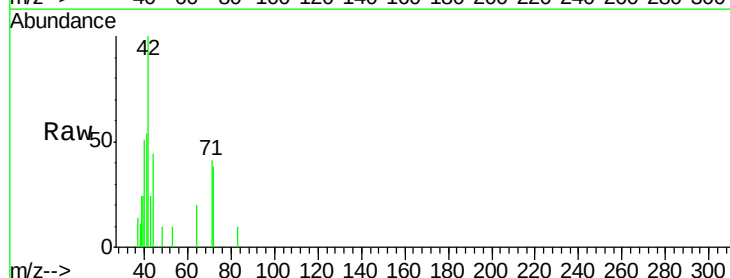
Tgt Ion: 42 Resp: 1789

Ion Ratio Lower Upper

42 100

72 16.2 37.6 56.4#

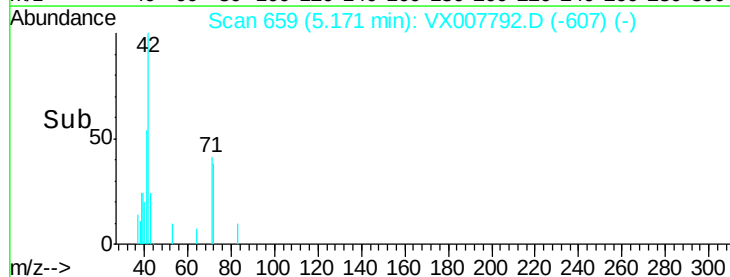
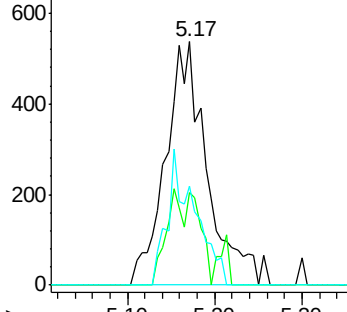
71 36.9 34.6 51.8

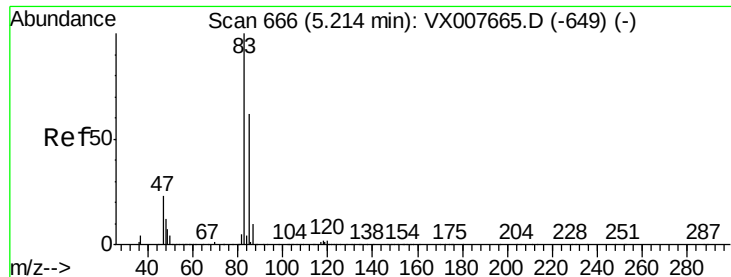


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

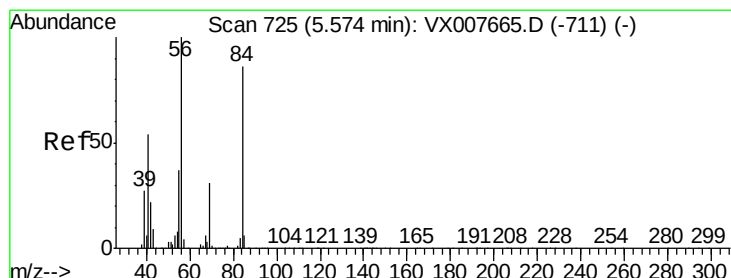
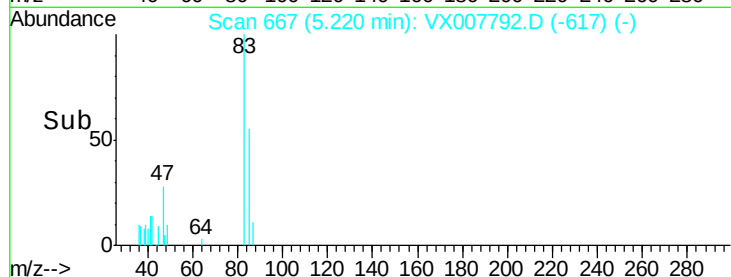
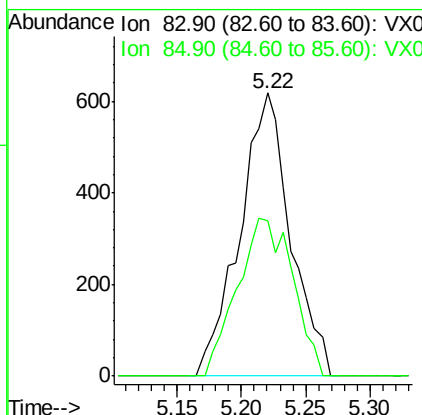
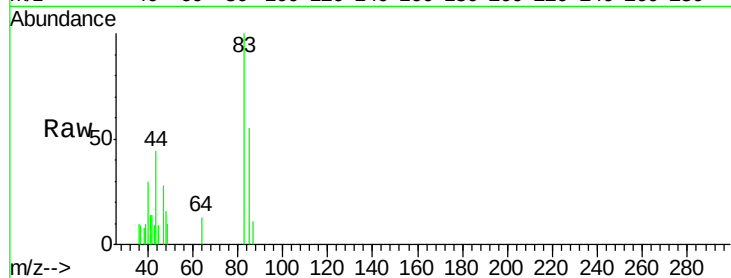




#30
Chloroform
Concen: 0.268 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX007792.D
Acq: 01 Mar 2019 16:20

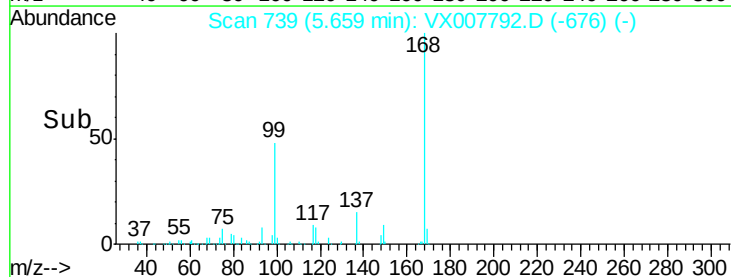
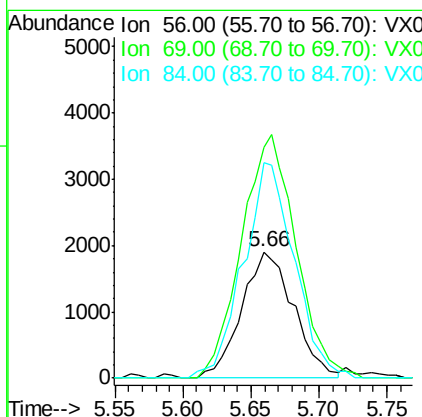
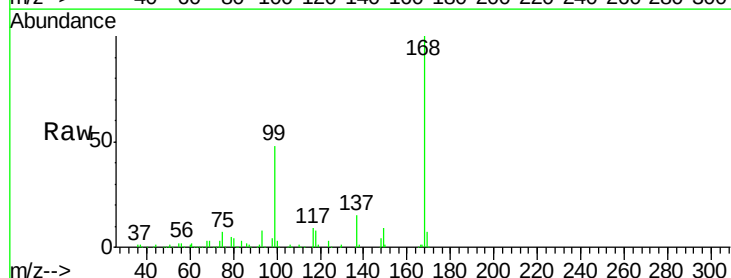
Instrument :
MSVOA_X
ClientSampleId :
M1-T4A-OZ(PRE)

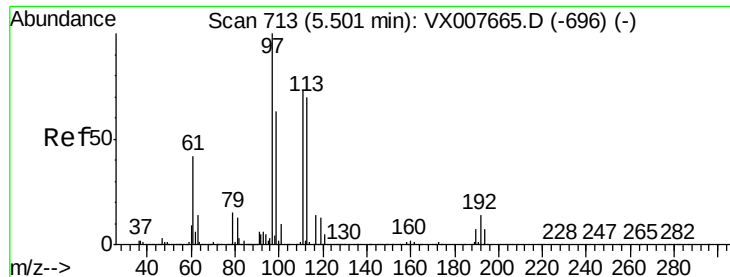
Tot Ion: 83 Resp: 1689
Ion Ratio Lower Upper
83 100
85 54.7 51.6 77.4



#31
Cyclohexane
Concen: 0.921 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX007792.D
Acq: 01 Mar 2019 16:20

Tgt Ion: 56 Resp: 5096
Ion Ratio Lower Upper
56 100
69 182.3 23.0 34.6#
84 170.5 69.8 104.6#





#32

1,1,1-Trichloroethane

Concen: 0.416 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX007792.D

Acq: 01 Mar 2019 16:20

Instrument :

MSVOA_X

ClientSampleId :

M1-T4A-OZ(PRE)

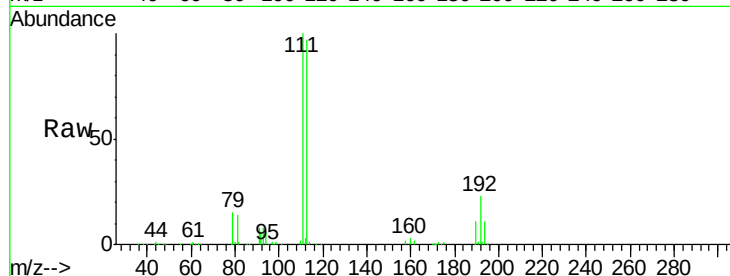
Tot Ion: 97 Resp: 2170

Ion Ratio Lower Upper

97 100

99 0.0 52.2 78.2#

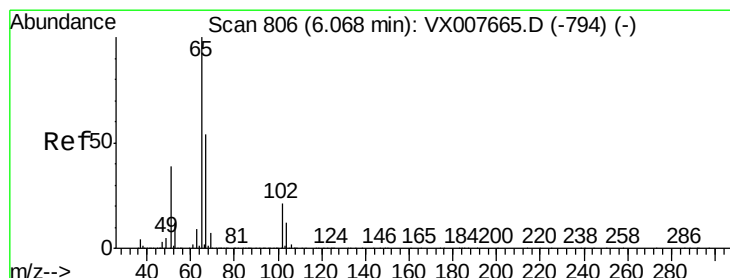
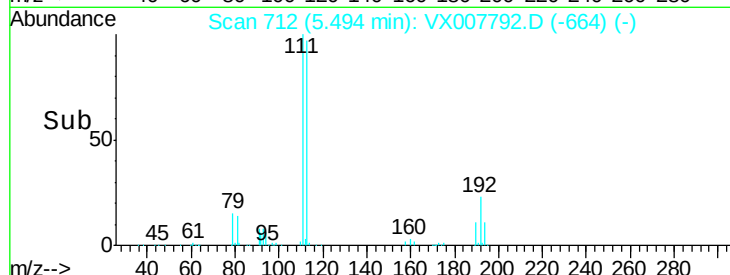
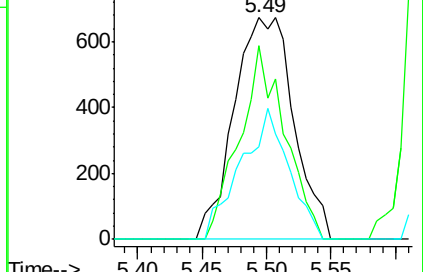
61 47.6 32.7 49.1



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.310 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007792.D

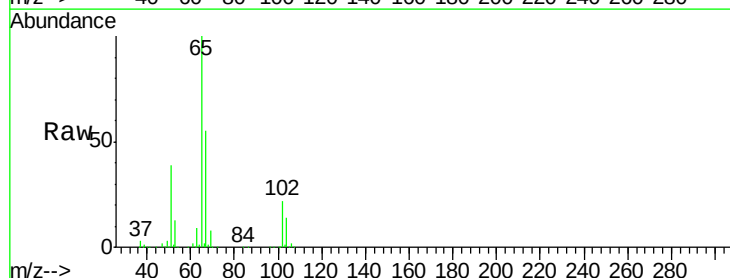
Acq: 01 Mar 2019 16:20

Tgt Ion: 65 Resp: 184458

Ion Ratio Lower Upper

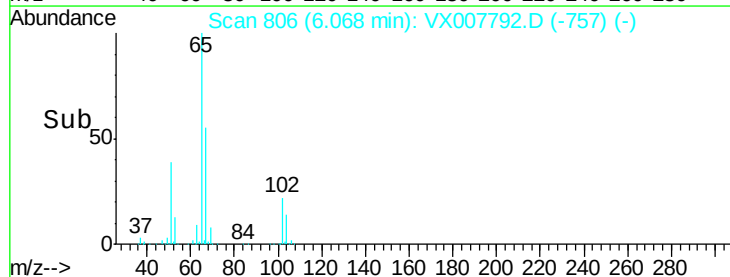
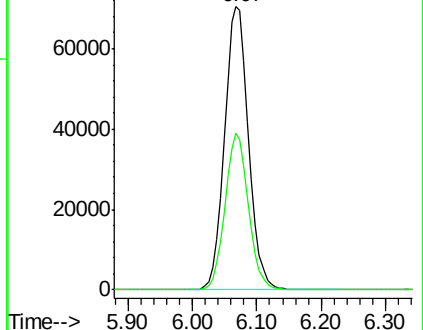
65 100

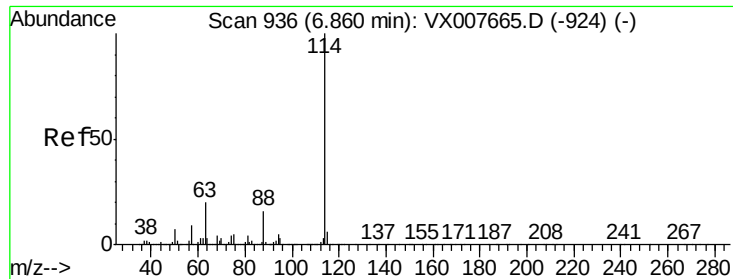
67 54.0 0.0 108.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007792.D

Acq: 01 Mar 2019 16:20

Instrument :

MSVOA_X

ClientSampleId :

M1-T4A-OZ(PRE)

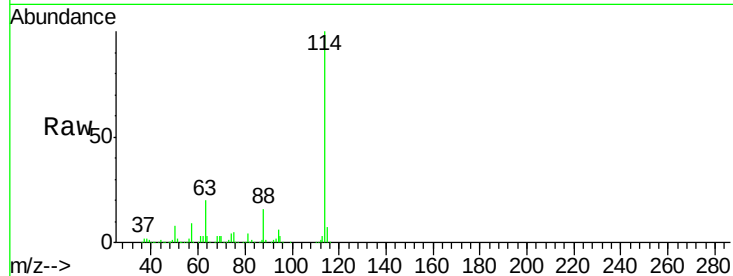
Tot Ion:114 Resp: 497608

Ion Ratio Lower Upper

114 100

63 20.2 0.0 35.6

88 15.7 0.0 29.6



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

250000

200000

150000

100000

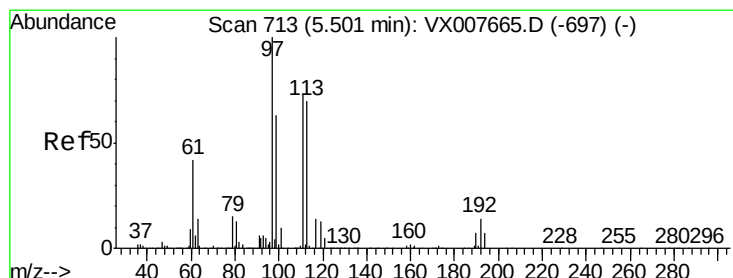
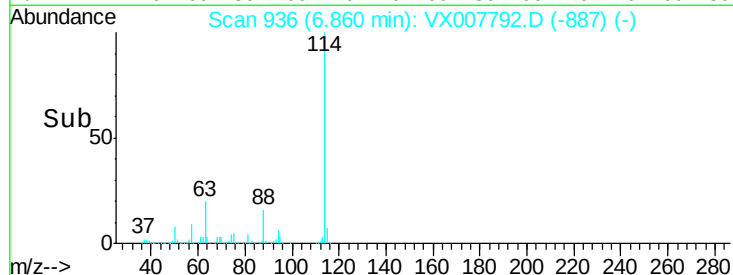
50000

0

6.86

6.70 6.80 6.90 7.00

Time-->



#35

Dibromofluoromethane

Concen: 48.794 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007792.D

Acq: 01 Mar 2019 16:20

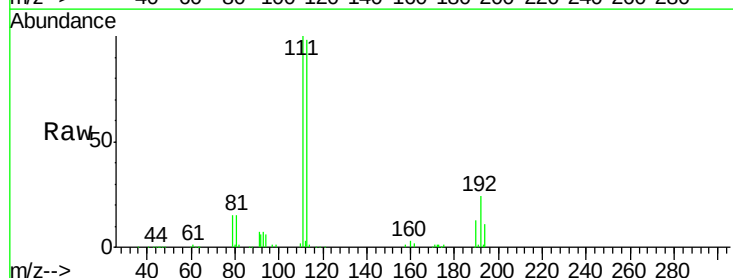
Tgt Ion:113 Resp: 162307

Ion Ratio Lower Upper

113 100

111 102.3 81.8 122.8

192 24.1 18.5 27.7



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

80000

60000

40000

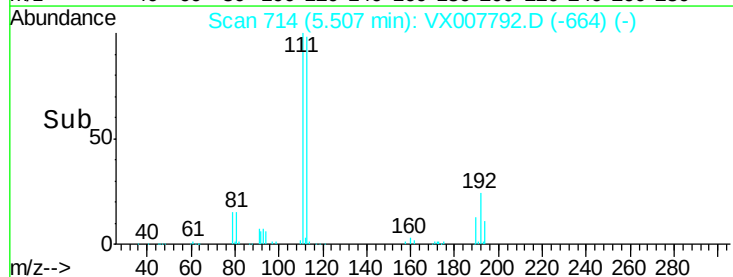
20000

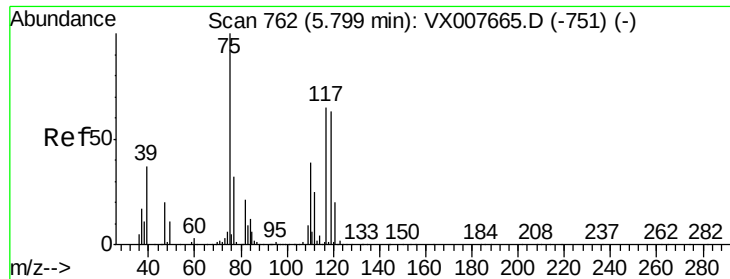
0

5.51

5.40 5.50 5.60

Time-->





#36

1,1-Dichloropropene

Concen: 4.557 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007792.D

Acq: 01 Mar 2019 16:20

Instrument :

MSVOA_X

ClientSampleId :

M1-T4A-OZ(PRE)

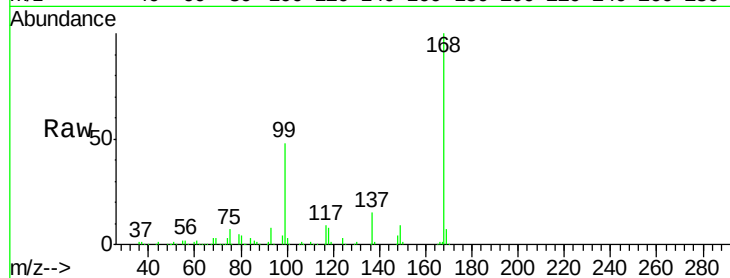
Tot Ion: 75 Resp: 20386

Ion Ratio Lower Upper

75 100

110 9.5 20.0 59.9#

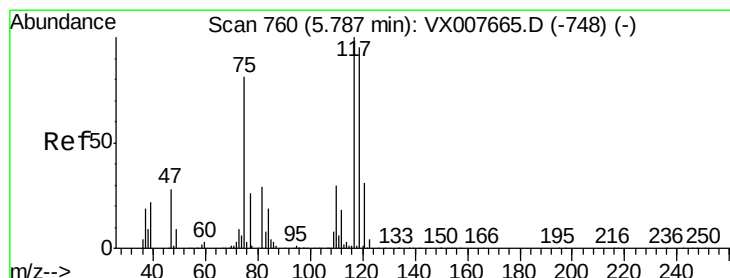
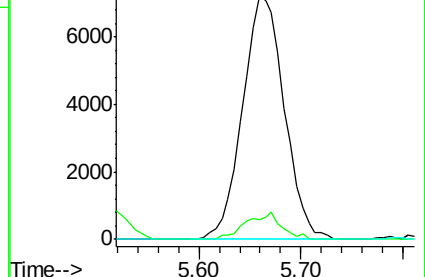
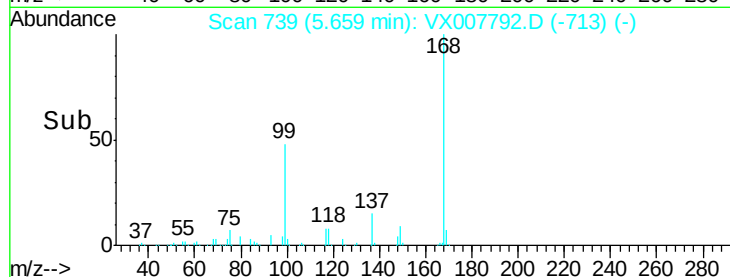
77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VX007792.D (-713) (-)

Ion 109.90 (109.60 to 110.60): VX007792.D (-713) (-)

Ion 76.90 (76.60 to 77.60): VX007792.D (-713) (-)



#38

Carbon Tetrachloride

Concen: 6.178 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007792.D

Acq: 01 Mar 2019 16:20

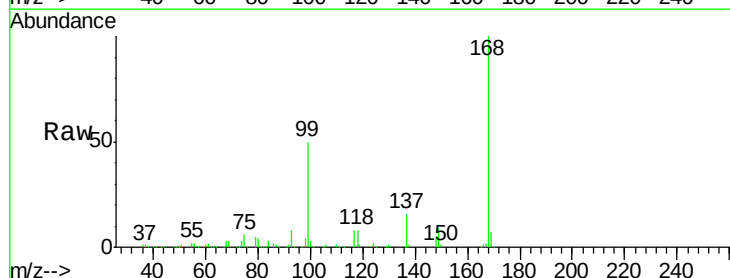
Tgt Ion: 117 Resp: 27763

Ion Ratio Lower Upper

117 100

119 5.9 75.3 112.9#

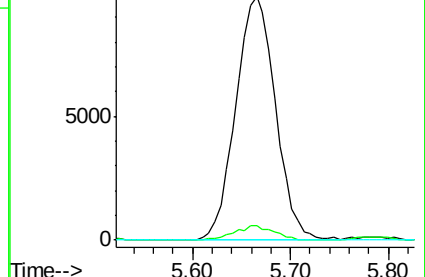
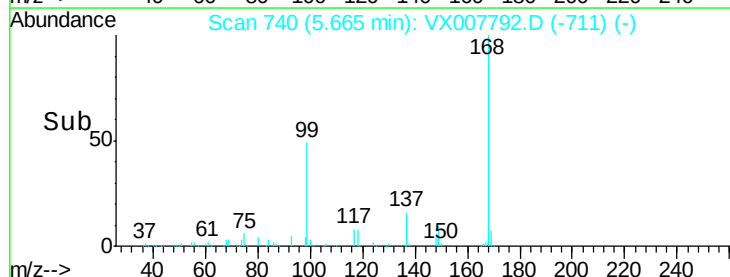
121 0.0 25.0 37.4#

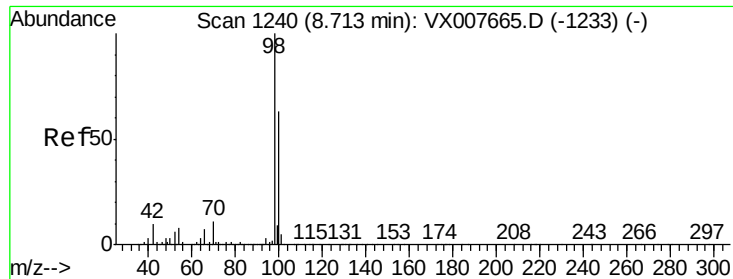


Abundance Ion 116.80 (116.50 to 117.50): VX007792.D (-711) (-)

Ion 118.80 (118.50 to 119.50): VX007792.D (-711) (-)

Ion 120.80 (120.50 to 121.50): VX007792.D (-711) (-)

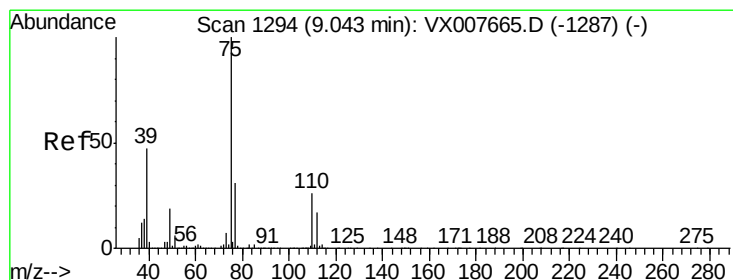
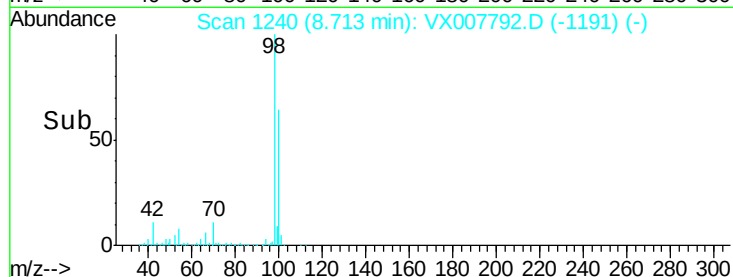
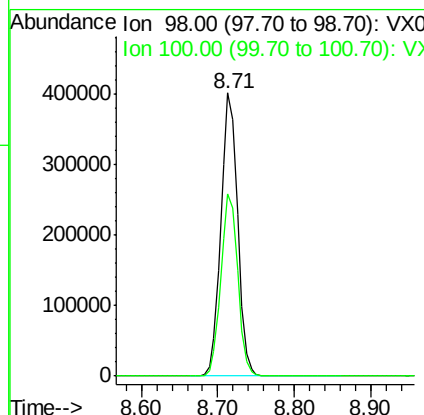
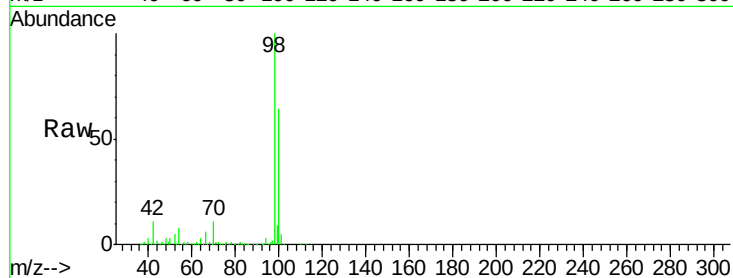




#50
Toluene-d8
Concen: 47.906 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX007792.D
Acq: 01 Mar 2019 16:20

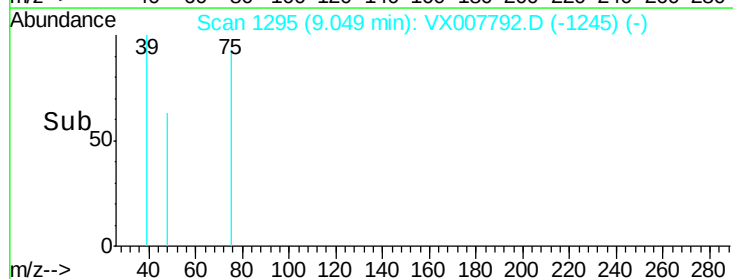
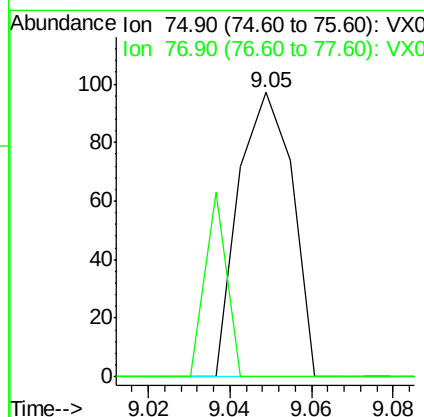
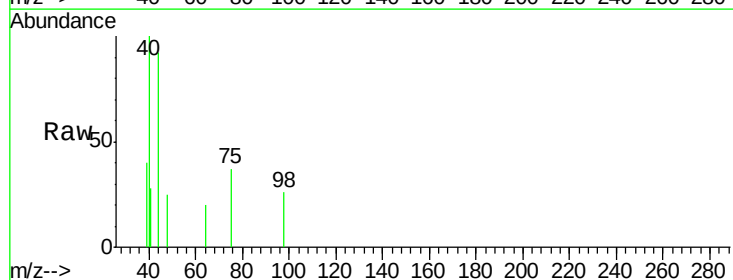
Instrument :
MSVOA_X
ClientSampleId :
M1-T4A-OZ(PRE)

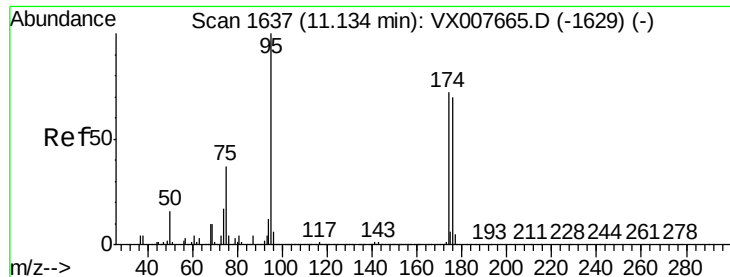
Tot Ion: 98 Resp: 610059
Ion Ratio Lower Upper
98 100
100 64.8 51.6 77.4



#53
t-1,3-Dichloropropene
Concen: 2.818 ug/l
RT: 9.05 min Scan# 1295
Delta R.T. 0.01 min
Lab File: VX007792.D
Acq: 01 Mar 2019 16:20

Tgt Ion: 75 Resp: 89
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#

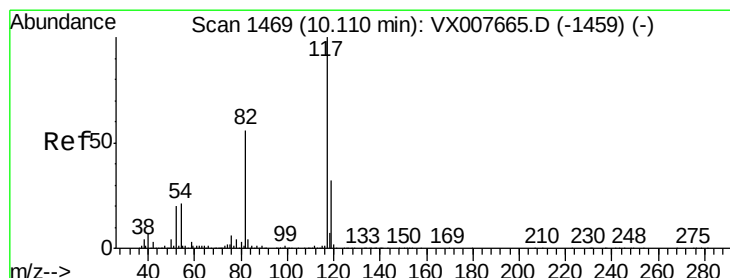
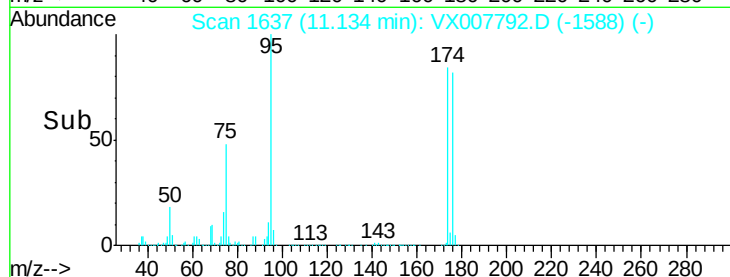
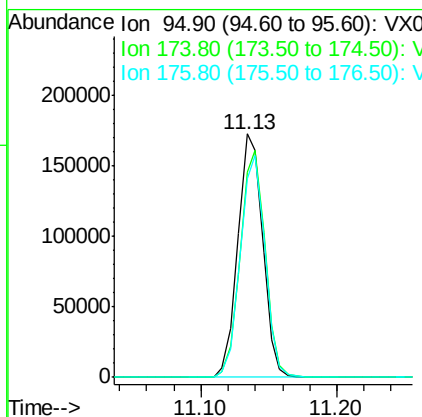
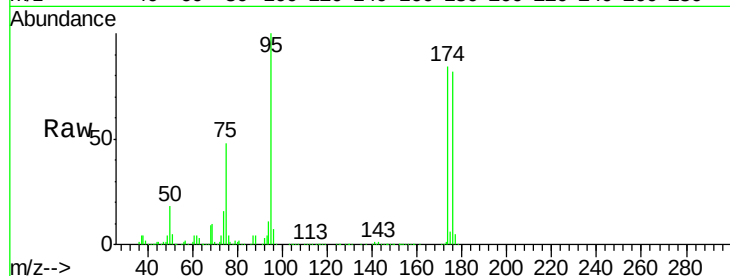




#62
4-Bromofluorobenzene
Concen: 47.102 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX007792.D
Acq: 01 Mar 2019 16:20

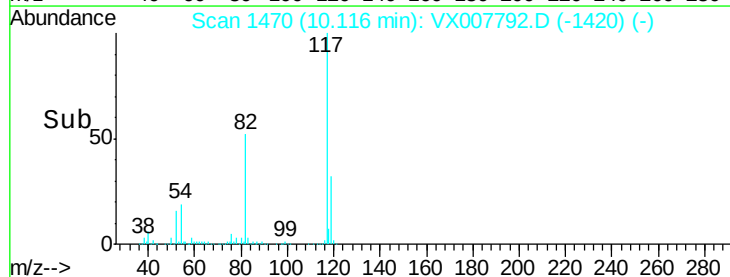
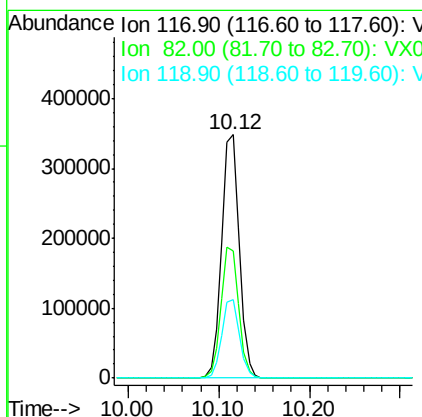
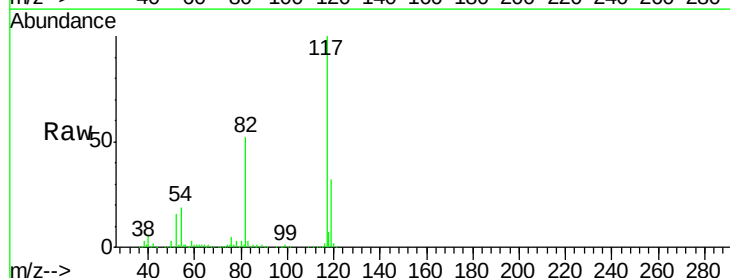
Instrument :
MSVOA_X
ClientSampleId :
M1-T4A-OZ(PRE)

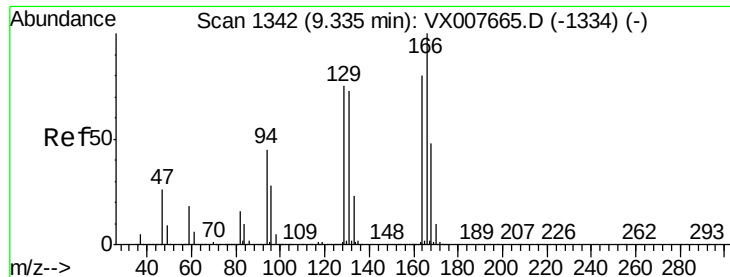
Tot Ion	95	Resp	220158
Ion Ratio	Lower	Upper	
95	100		
174	92.8	0.0	189.2
176	90.7	0.0	186.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX007792.D
Acq: 01 Mar 2019 16:20

Tgt Ion	117	Resp	475180
Ion Ratio	Lower	Upper	
117	100		
82	52.3	42.1	63.1
119	32.3	26.5	39.7





#64

Tetrachloroethene

Concen: 0.261 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX007792.D

Acq: 01 Mar 2019 16:20

Instrument :

MSVOA_X

ClientSampleId :

M1-T4A-OZ(PRE)

Tot Ion:164 Resp: 1005

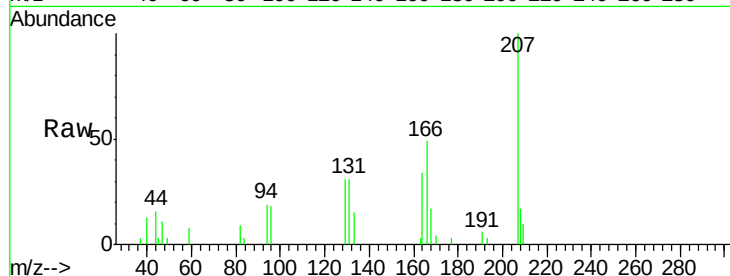
Ion Ratio Lower Upper

164 100

166 144.2 101.0 151.4

129 90.8 70.5 105.7

131 89.1 69.8 104.6



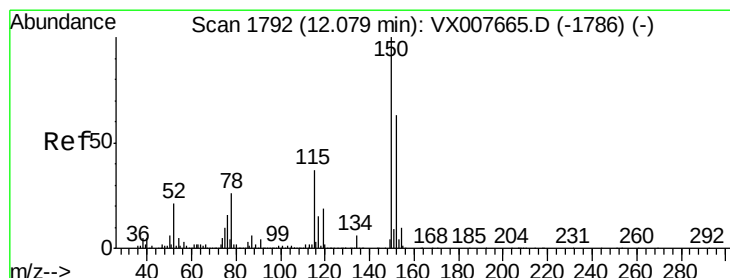
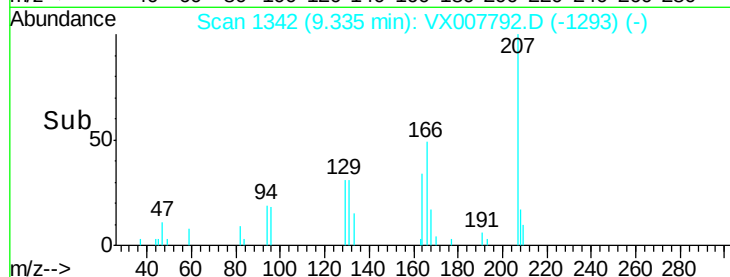
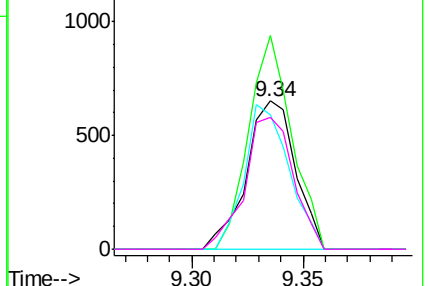
Abundance

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: VX007792.D

Acq: 01 Mar 2019 16:20

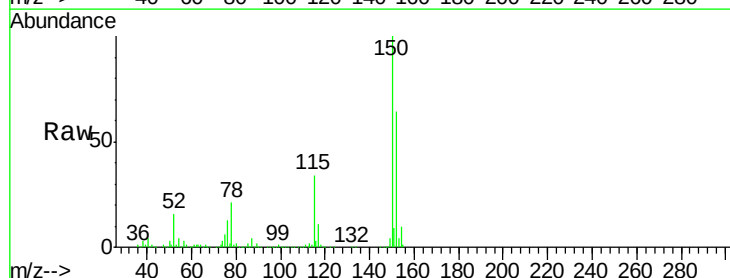
Tgt Ion:152 Resp: 227343

Ion Ratio Lower Upper

152 100

115 55.5 38.0 114.0

150 157.5 0.0 346.4

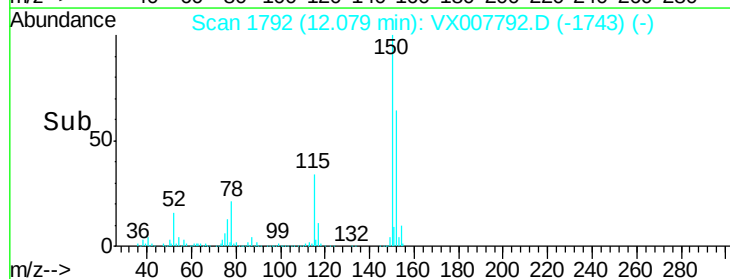
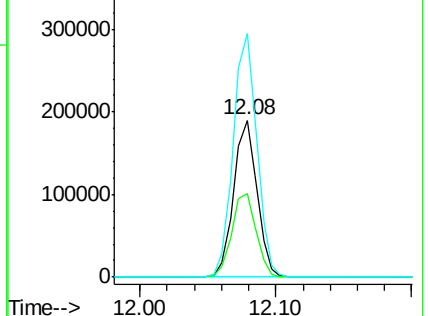


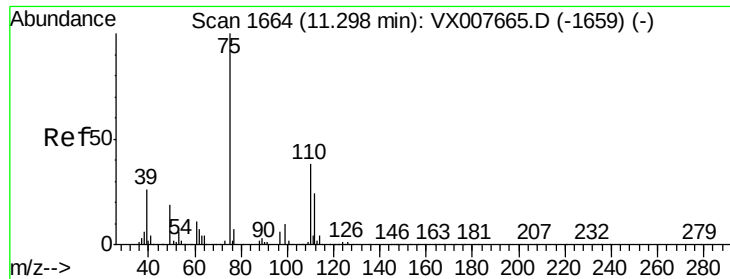
Abundance

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

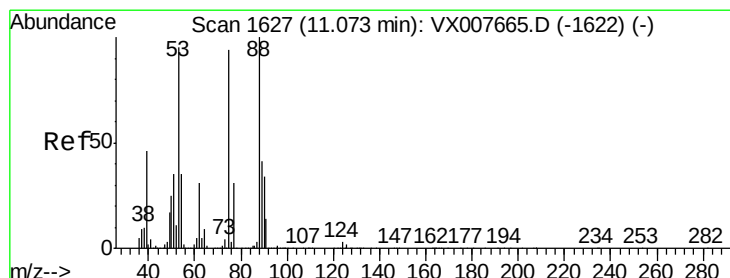
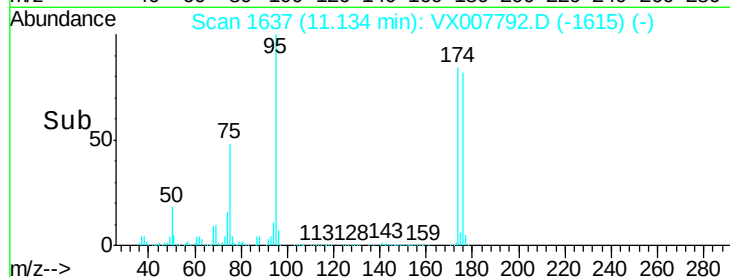
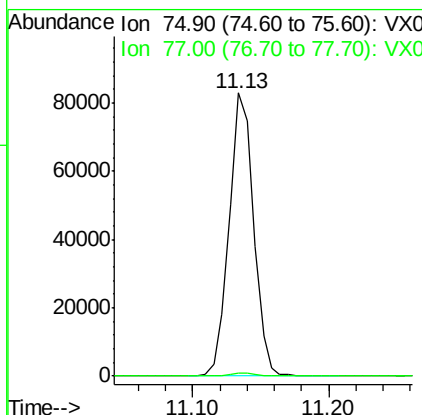
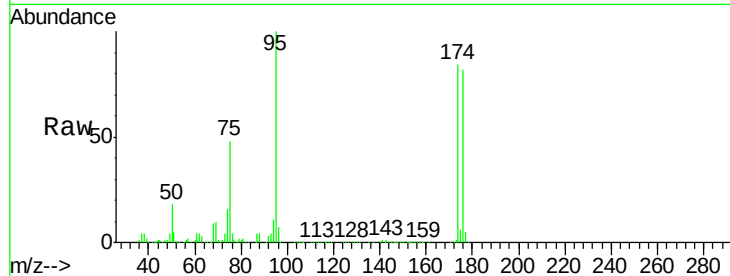




#76
 1,2,3-Trichloropropane
 Concen: 21.430 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX007792.D
 Acq: 01 Mar 2019 16:20

Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T4A-OZ(PRE)

Tot Ion: 75 Resp: 103849
 Ion Ratio Lower Upper
 75 100
 77 1.2 23.0 69.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.980 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX007792.D
 Acq: 01 Mar 2019 16:20

Tgt Ion: 75 Resp: 103849
 Ion Ratio Lower Upper
 75 100
 53 0.1 81.0 121.6#
 89 0.0 41.4 62.0#

