

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022819\
 Data File : VX007762.D
 Acq On : 28 Feb 2019 13:19
 Operator : JC/SP
 Sample : K1603-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T0-UV(PRE)

Quant Time: Mar 01 01:29:50 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	313629	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	491805	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	467798	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	222208	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	191583	49.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.64%	
35) Dibromofluoromethane	5.51	113	161755	49.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.40%	
50) Toluene-d8	8.71	98	604898	48.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.12%	
62) 4-Bromofluorobenzene	11.13	95	214727	46.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.96%	

Target Compounds

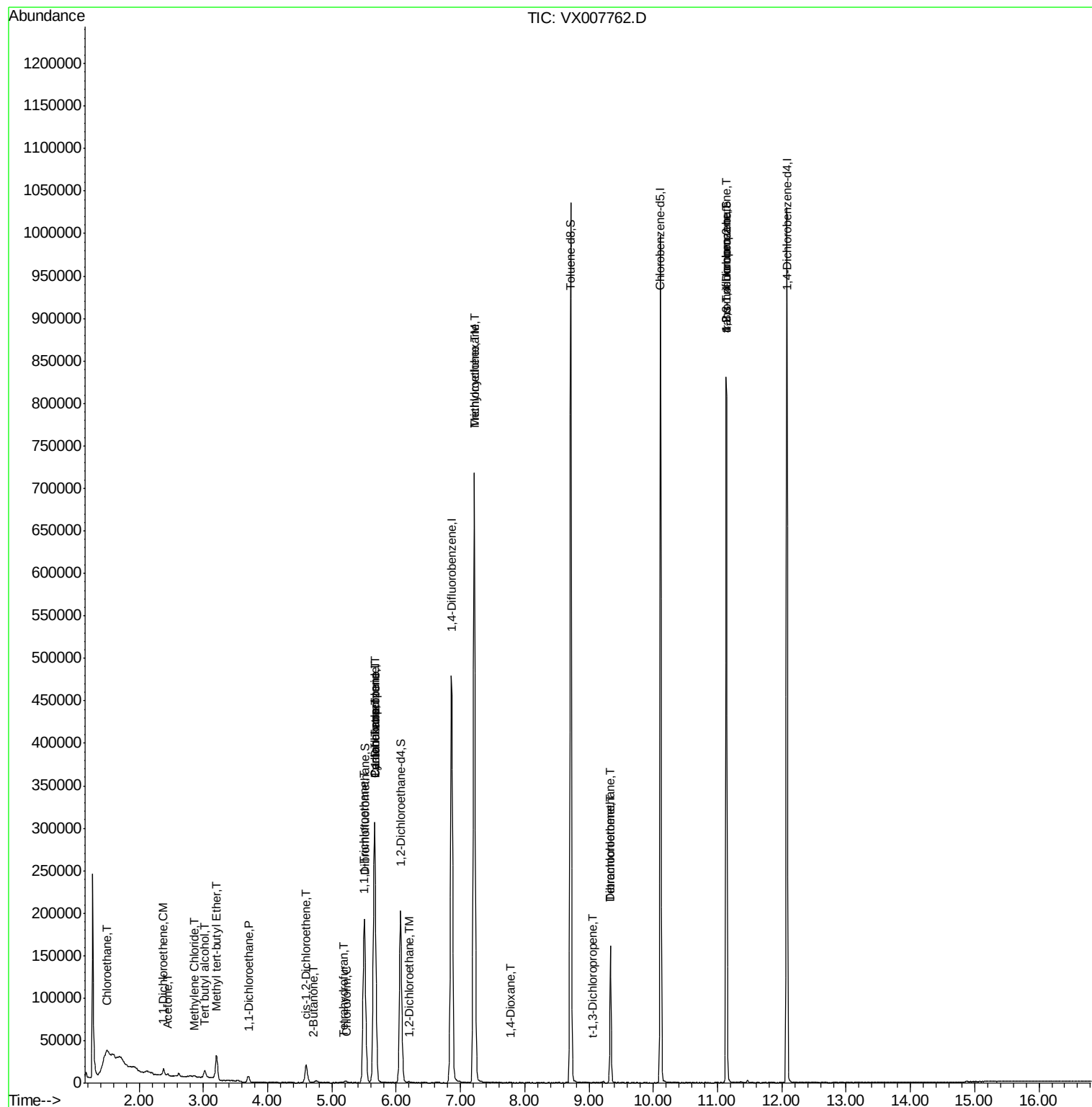
						Qvalue
5) Bromomethane	1.65	94	117	Below Cal		99
6) Chloroethane	1.50	64	54209	25.832	ug/l #	51
11) Tert butyl alcohol	3.02	59	4750	6.444	ug/l #	73
12) 1,1-Dichloroethene	2.39	96	1980	0.722	ug/l	97
16) Acetone	2.45	43	2697	1.561	ug/l	100
19) Methyl tert-butyl Ether	3.20	73	30694	3.213	ug/l	97
20) Methylene Chloride	2.86	84	813	0.255	ug/l #	90
24) 1,1-Dichloroethane	3.70	63	8201	1.429	ug/l	97
25) 2-Butanone	4.71	43	858	0.326	ug/l #	88
27) cis-1,2-Dichloroethene	4.60	96	13372	3.524	ug/l	99
29) Tetrahydrofuran	5.18	42	726	0.419	ug/l #	31
30) Chloroform	5.21	83	1769	0.288	ug/l #	83
31) Cyclohexane	5.66	56	5365	0.994	ug/l #	1
32) 1,1,1-Trichloroethane	5.49	97	2534	0.498	ug/l #	44
36) 1,1-Dichloropropene	5.66	75	20994	4.748	ug/l #	47
38) Carbon Tetrachloride	5.67	117	27729	6.243	ug/l #	17
39) Methylcyclohexane	7.21	83	3381	0.605	ug/l #	1
42) 1,2-Dichloroethane	6.20	62	931	0.203	ug/l #	74
44) Trichloroethene	7.21	130	284169	75.684	ug/l	95
49) 1,4-Dioxane	7.77	88	270	3.155	ug/l #	40
53) t-1,3-Dichloropropene	9.07	75	40	2.810	ug/l #	43
60) Dibromochloromethane	9.34	129	29779	8.623	ug/l #	12
64) Tetrachloroethene	9.34	164	33103	8.717	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	104741	22.114	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	104741	58.701	ug/l #	9

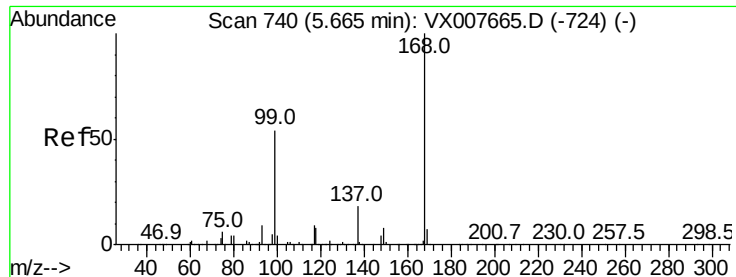
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007762.D

Acq: 28 Feb 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

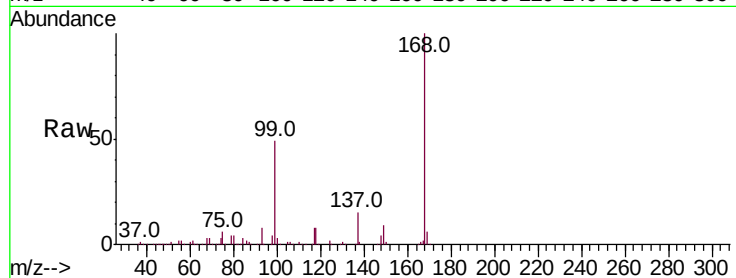
M1-T0-UV(PRE)

Tot Ion:168 Resp: 313629

Ion Ratio Lower Upper

168 100

99 49.1 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): VX007762.D (-724) (-)

Ion 98.90 (98.60 to 99.60): VX007762.D (-724) (-)

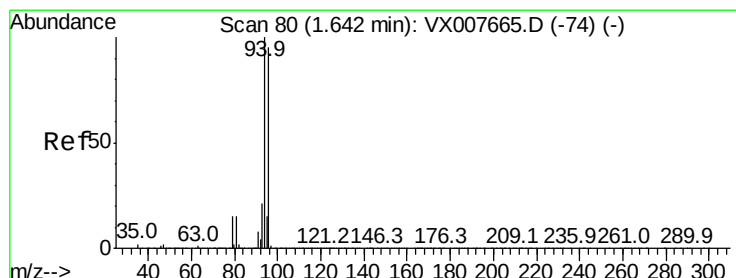
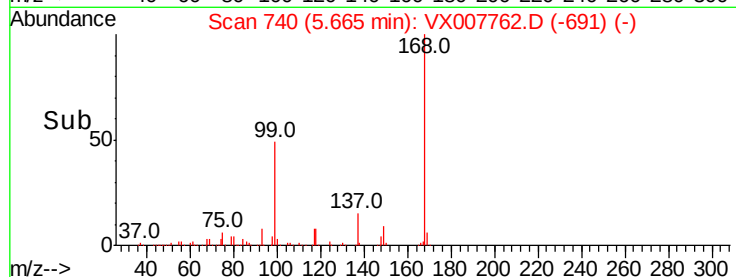
5.67

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007762.D

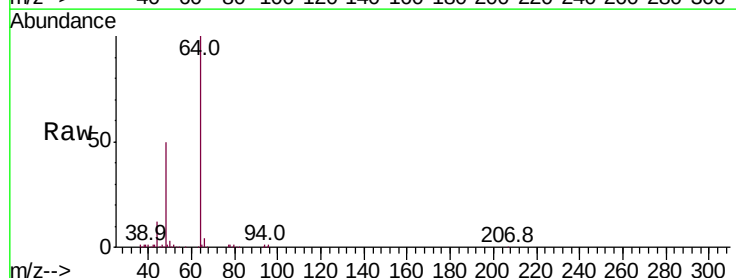
Acq: 28 Feb 2019 13:19

Tgt Ion: 94 Resp: 117

Ion Ratio Lower Upper

94 100

96 93.4 73.9 110.9



Abundance Ion 93.90 (93.60 to 94.60): VX007762.D (-74) (-)

Ion 95.90 (95.60 to 96.60): VX007762.D (-74) (-)

1.65

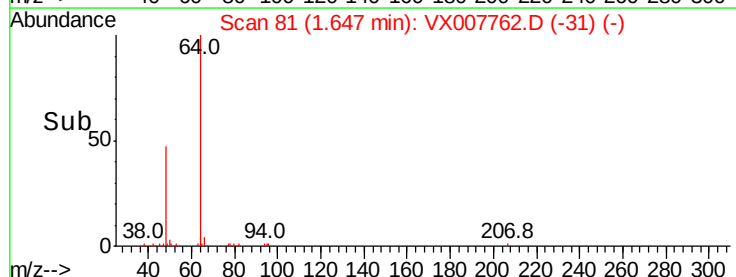
150

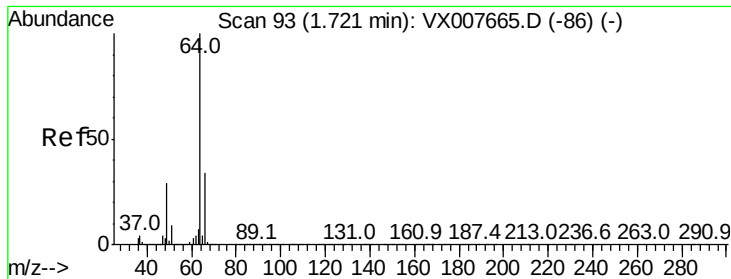
100

50

0

Time-->





#6

Chloroethane

Concen: 25.832 ug/l

RT: 1.50 min Scan# 57

Delta R.T. -0.22 min

Lab File: VX007762.D

Acq: 28 Feb 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

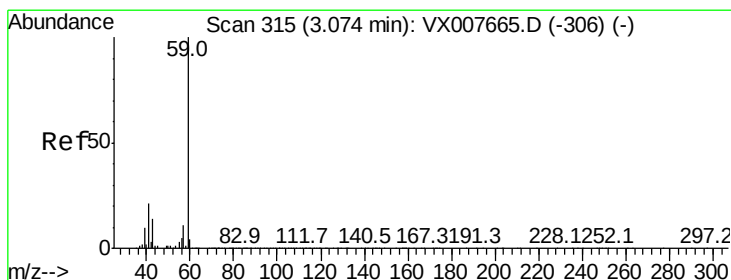
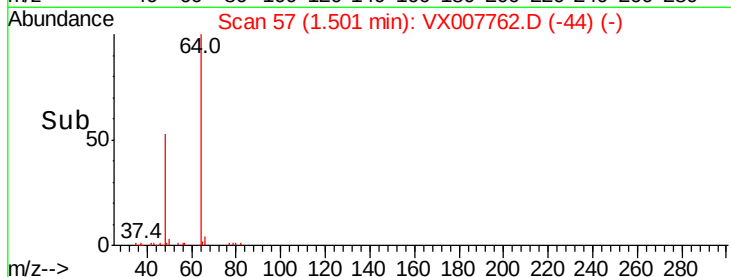
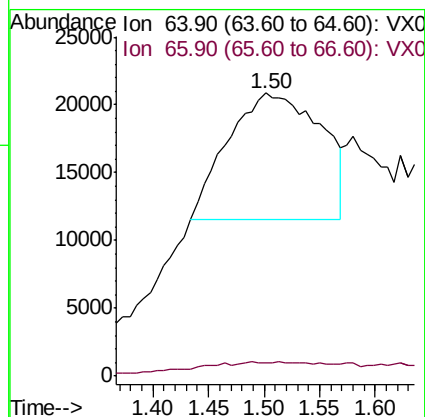
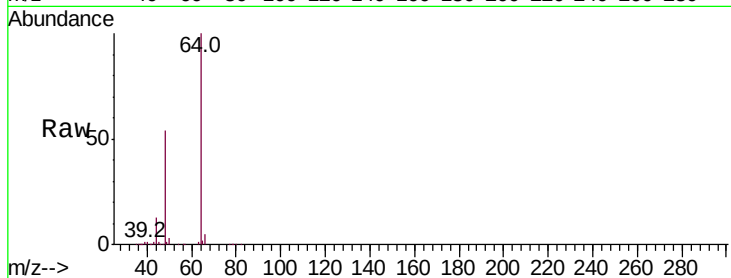
M1-T0-UV(PRE)

Tot Ion: 64 Resp: 54209

Ion Ratio Lower Upper

64 100

66 4.5 25.5 38.3#



#11

Tert butyl alcohol

Concen: 6.444 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX007762.D

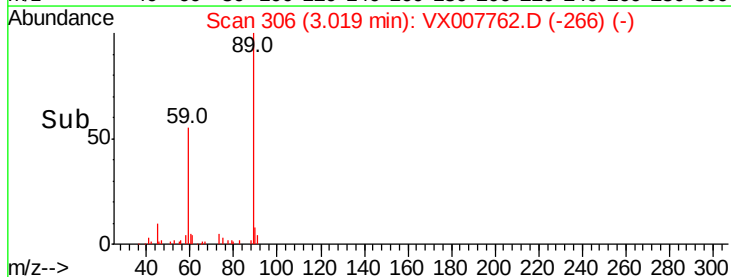
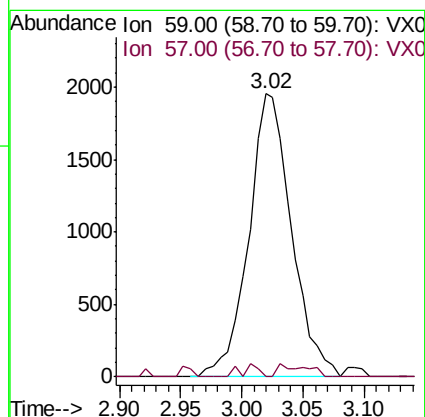
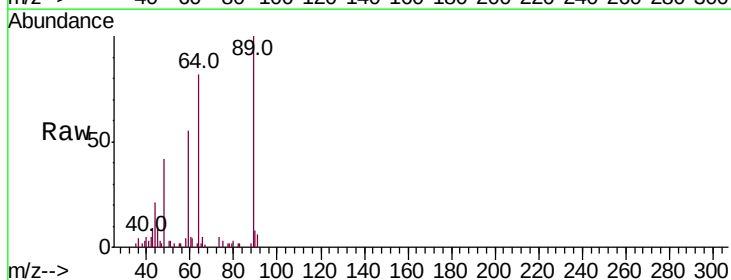
Acq: 28 Feb 2019 13:19

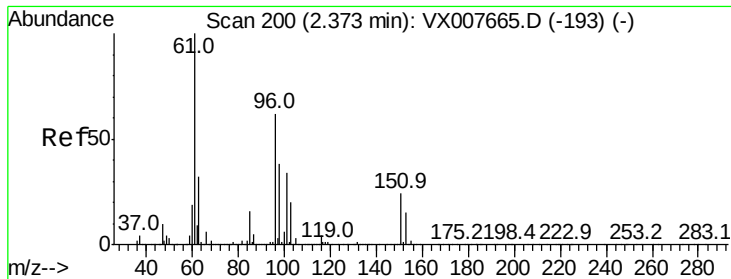
Tgt Ion: 59 Resp: 4750

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#





#12

1,1-Dichloroethene

Concen: 0.722 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX007762.D

Acq: 28 Feb 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

M1-T0-UV(PRE)

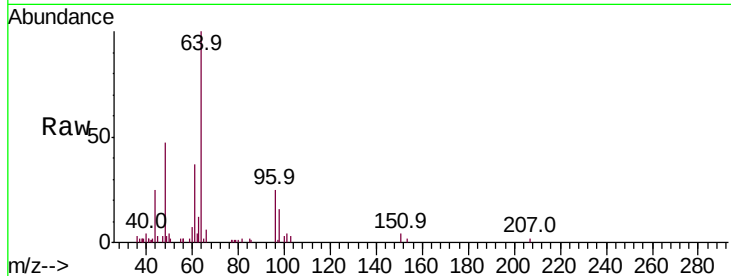
Tot Ion: 96 Resp: 1980

Ion Ratio Lower Upper

96 100

61 148.6 123.0 184.4

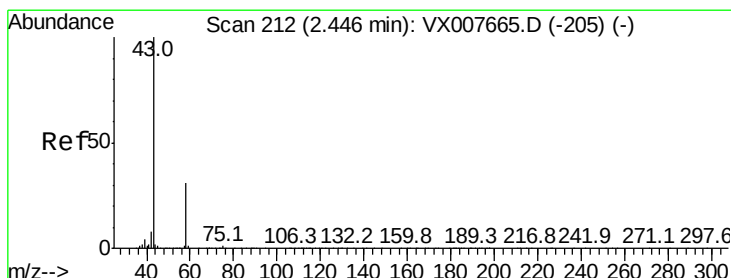
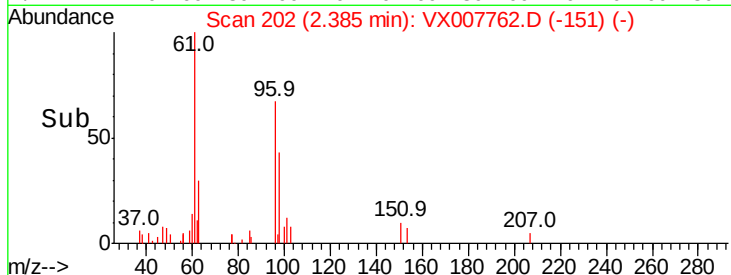
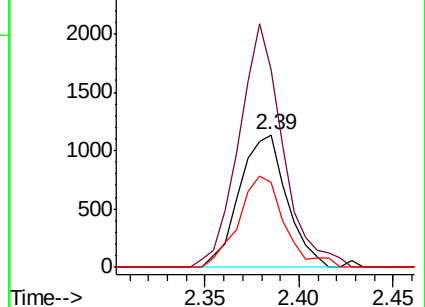
98 63.9 50.9 76.3



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



#16

Acetone

Concen: 1.561 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007762.D

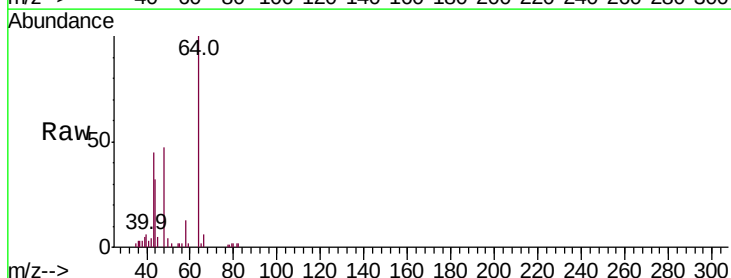
Acq: 28 Feb 2019 13:19

Tgt Ion: 43 Resp: 2697

Ion Ratio Lower Upper

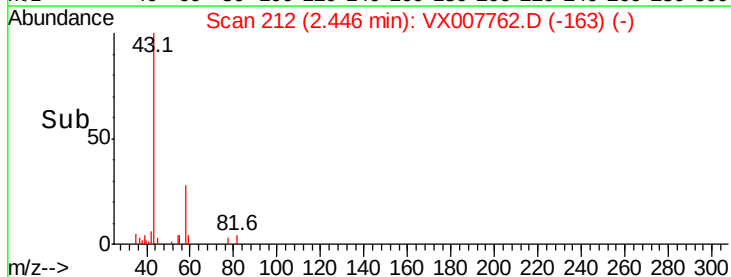
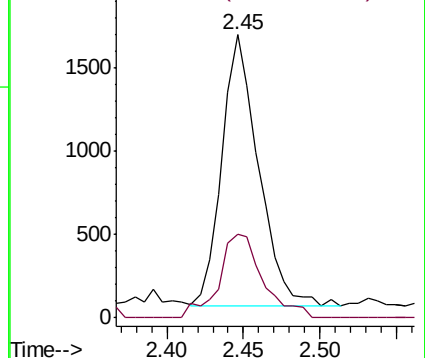
43 100

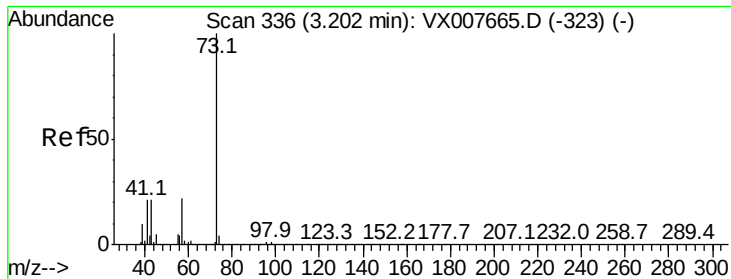
58 30.8 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



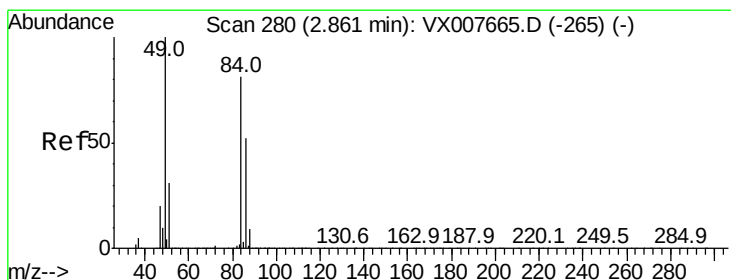
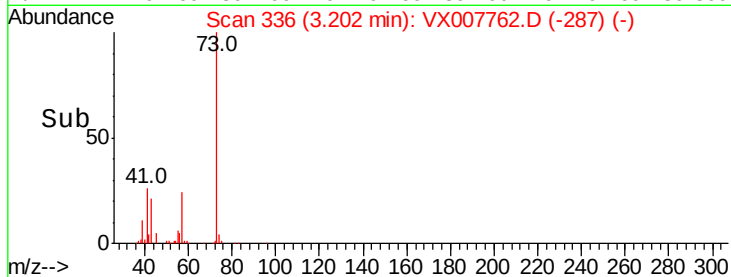
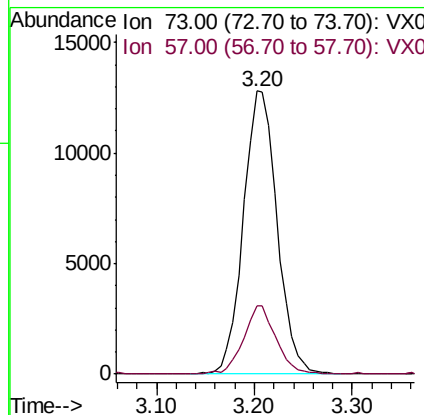
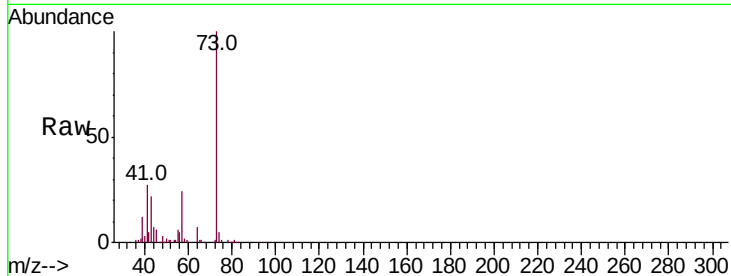


#19

Methyl tert-butyl Ether
 Concen: 3.213 ug/l
 RT: 3.20 min Scan# 336
 Delta R.T. -0.00 min
 Lab File: VX007762.D
 Acq: 28 Feb 2019 13:19

Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T0-UV(PRE)

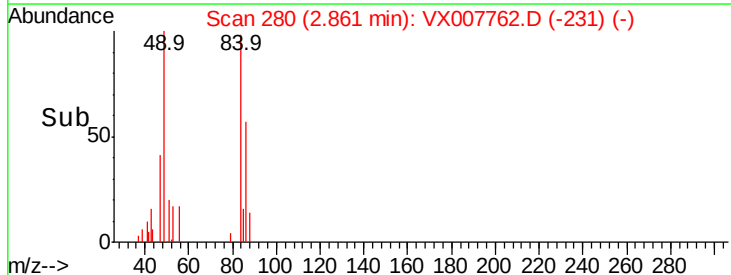
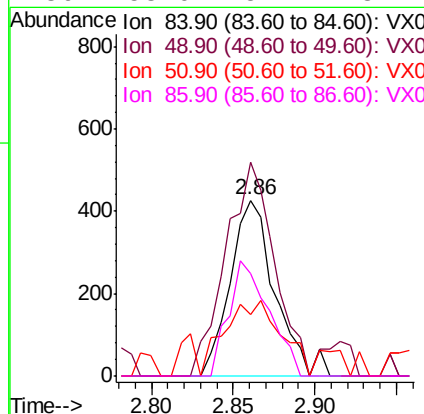
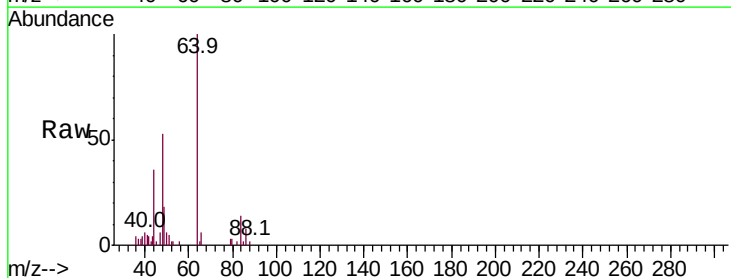
Tot Ion: 73 Resp: 30694
 Ion Ratio Lower Upper
 73 100
 57 24.0 17.8 26.8

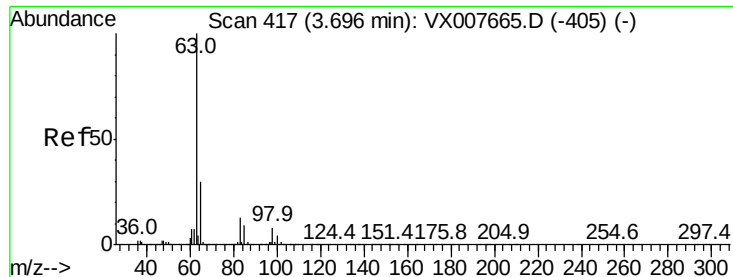


#20

Methylene Chloride
 Concen: 0.255 ug/l
 RT: 2.86 min Scan# 280
 Delta R.T. -0.00 min
 Lab File: VX007762.D
 Acq: 28 Feb 2019 13:19

Tgt Ion: 84 Resp: 813
 Ion Ratio Lower Upper
 84 100
 49 121.8 94.8 142.2
 51 20.2 29.8 44.8#
 86 58.0 54.1 81.1





#24

1,1-Dichloroethane

Concen: 1.429 ug/l

RT: 3.70 min Scan# 418

Delta R.T. 0.01 min

Lab File: VX007762.D

Acq: 28 Feb 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

M1-T0-UV(PRE)

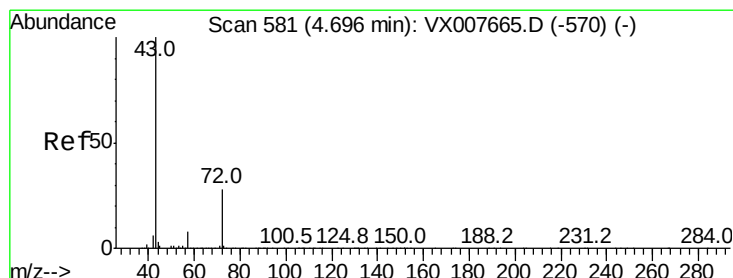
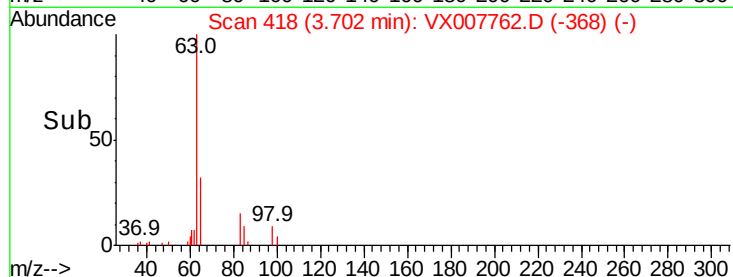
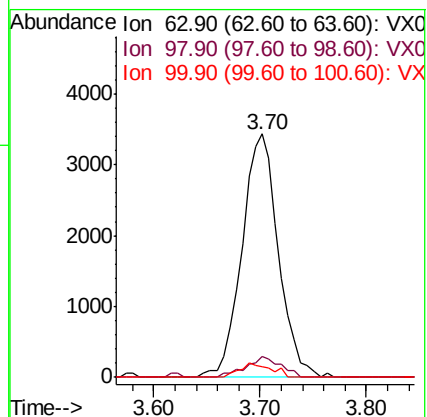
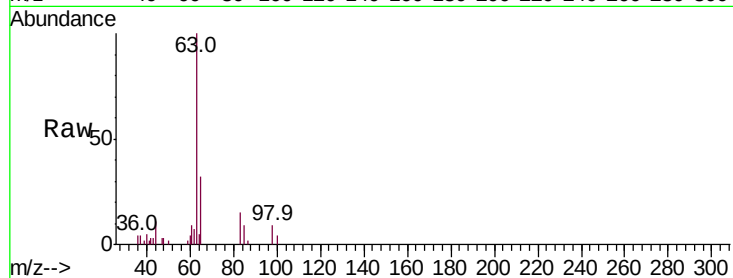
Tot Ion: 63 Resp: 8201

Ion Ratio Lower Upper

63 100

98 8.6 3.6 10.8

100 4.2 2.5 7.4



#25

2-Butanone

Concen: 0.326 ug/l

RT: 4.71 min Scan# 584

Delta R.T. 0.02 min

Lab File: VX007762.D

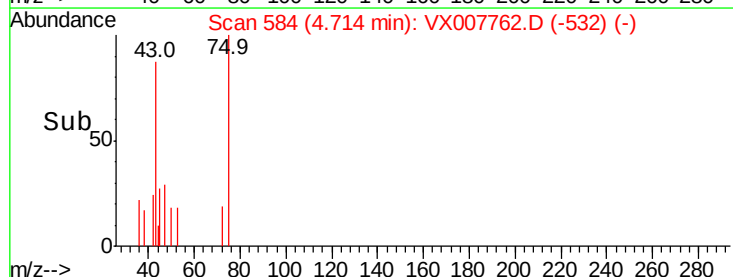
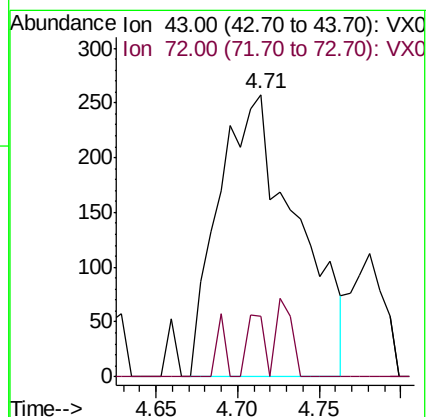
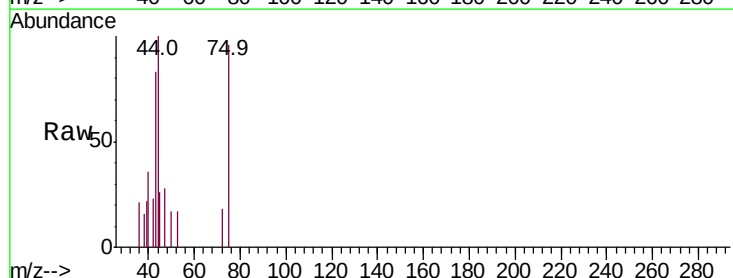
Acq: 28 Feb 2019 13:19

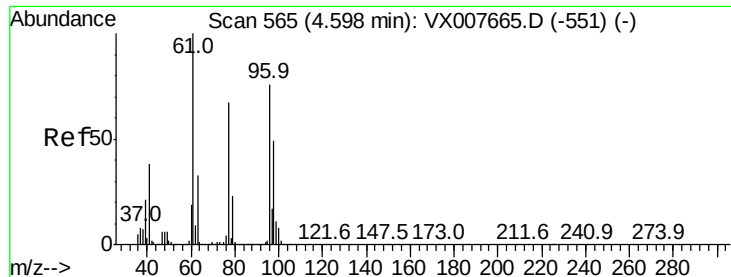
Tgt Ion: 43 Resp: 858

Ion Ratio Lower Upper

43 100

72 21.3 22.2 33.2#



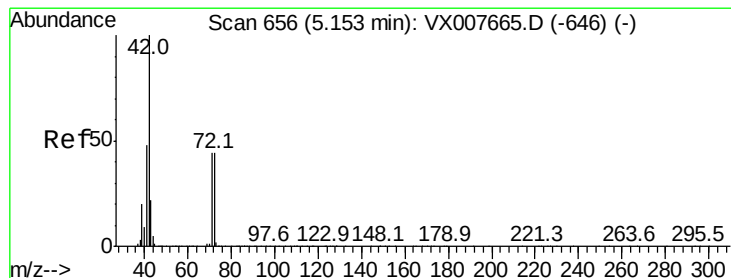
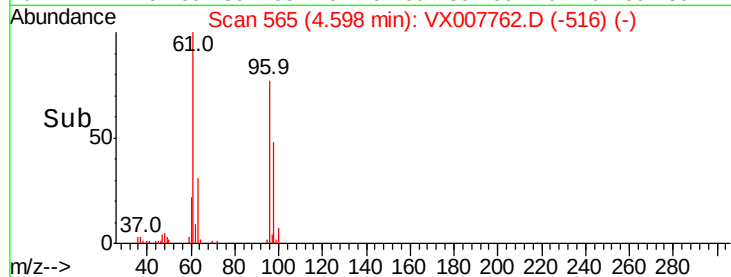
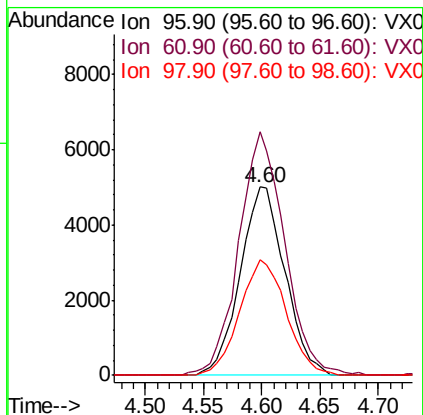
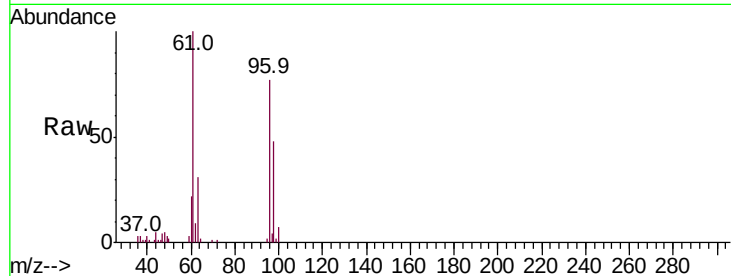


#27

cis-1,2-Dichloroethene
 Concen: 3.524 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX007762.D
 Acq: 28 Feb 2019 13:19

Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T0-UV(PRE)

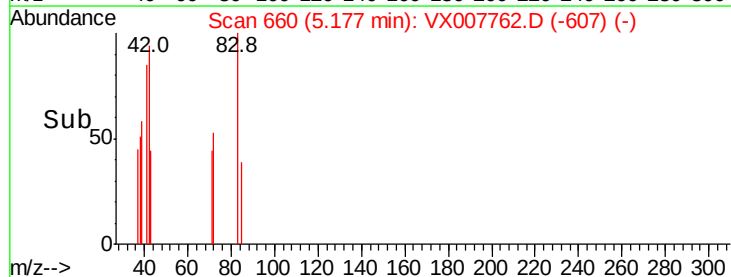
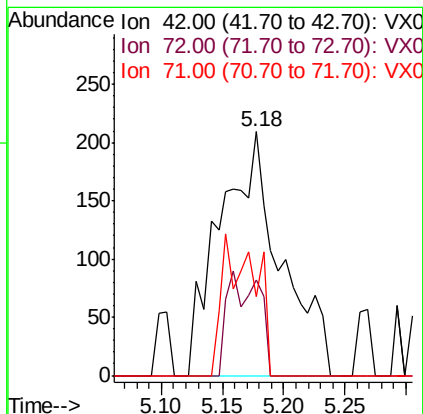
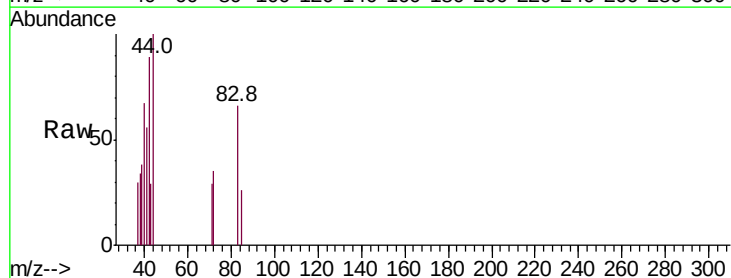
Tot Ion	Ratio	Lower	Upper
96	100		
61	132.7	0.0	265.6
98	63.9	0.0	131.6

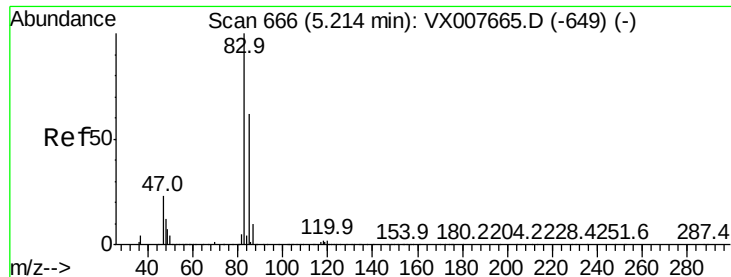


#29

Tetrahydrofuran
 Concen: 0.419 ug/l
 RT: 5.18 min Scan# 660
 Delta R.T. 0.02 min
 Lab File: VX007762.D
 Acq: 28 Feb 2019 13:19

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	37.6	56.4#
71	0.0	34.6	51.8#

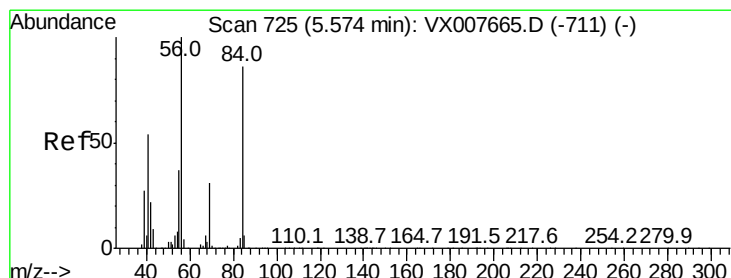
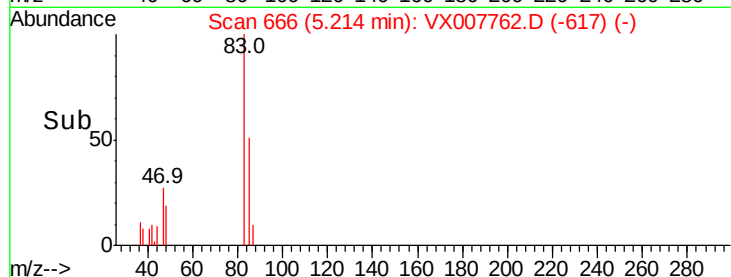
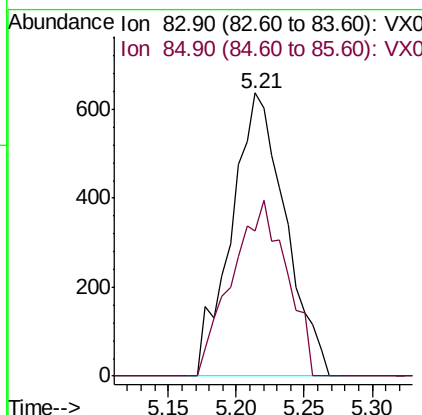
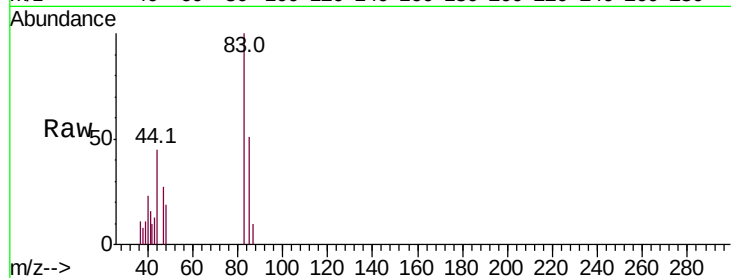




#30
Chloroform
Concen: 0.288 ug/l
RT: 5.21 min Scan# 666
Delta R.T. -0.00 min
Lab File: VX007762.D
Acq: 28 Feb 2019 13:19

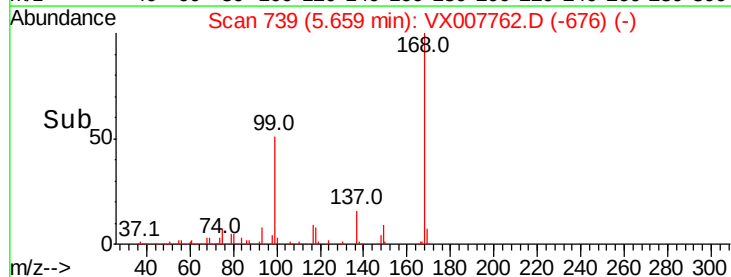
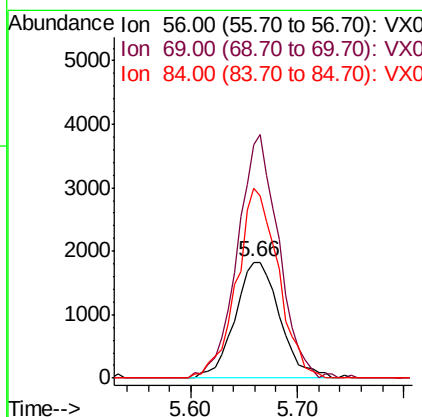
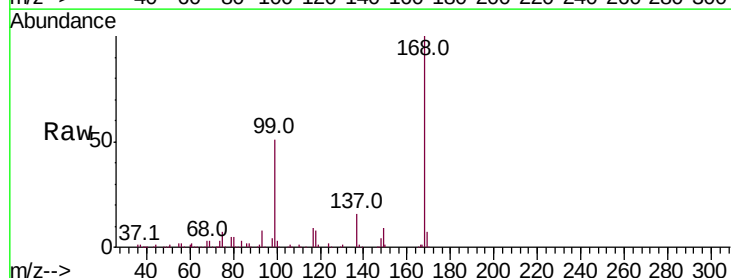
Instrument :
MSVOA_X
ClientSampleId :
M1-T0-UV(PRE)

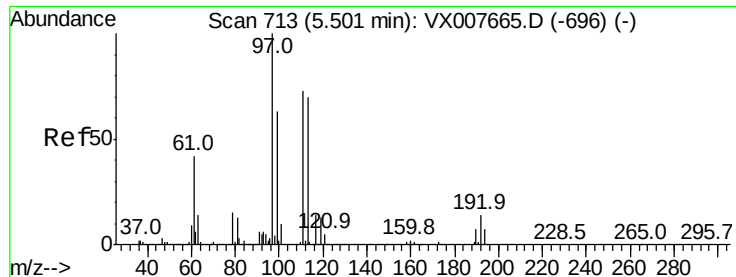
Tot Ion: 83 Resp: 1769
Ion Ratio Lower Upper
83 100
85 51.3 51.6 77.4#



#31
Cyclohexane
Concen: 0.994 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX007762.D
Acq: 28 Feb 2019 13:19

Tgt Ion: 56 Resp: 5365
Ion Ratio Lower Upper
56 100
69 201.0 23.0 34.6#
84 163.1 69.8 104.6#





#32

1,1,1-Trichloroethane

Concen: 0.498 ug/l

RT: 5.49 min Scan# 711

Delta R.T. -0.01 min

Lab File: VX007762.D

Acq: 28 Feb 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

M1-T0-UV(PRE)

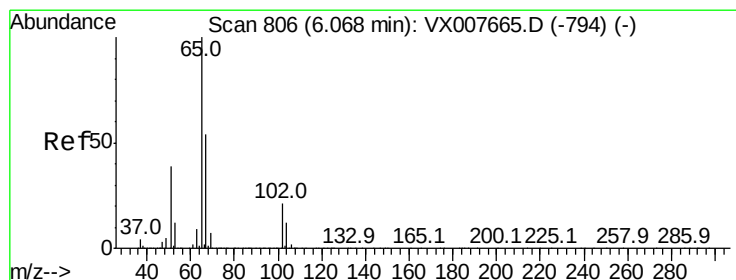
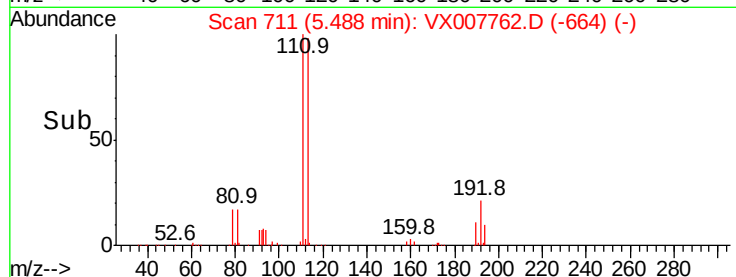
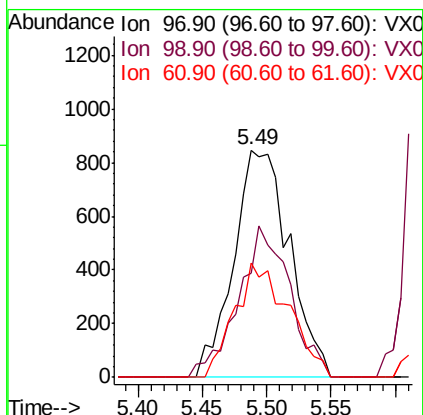
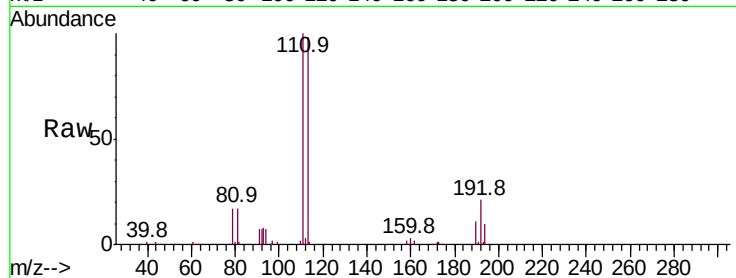
Tot Ion: 97 Resp: 2534

Ion Ratio Lower Upper

97 100

99 0.0 52.2 78.2#

61 49.0 32.7 49.1



#33

1,2-Dichloroethane-d4

Concen: 49.315 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007762.D

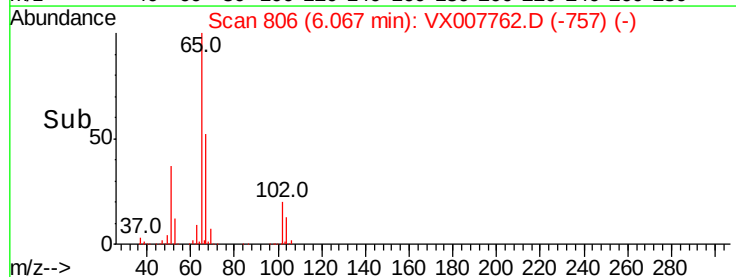
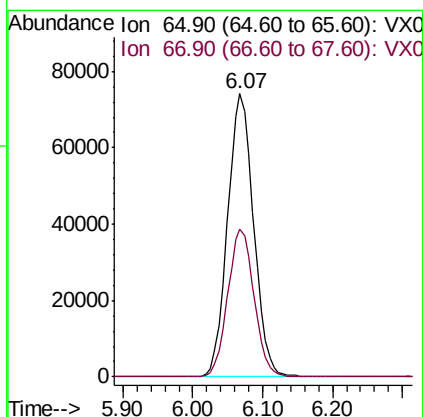
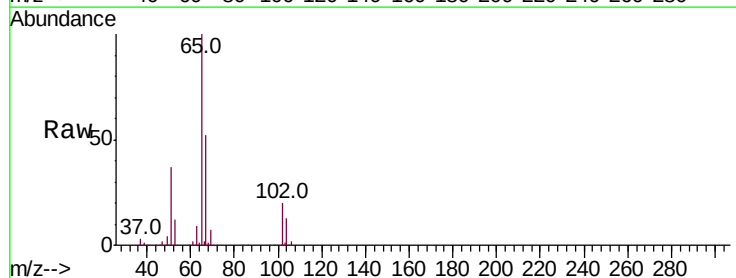
Acq: 28 Feb 2019 13:19

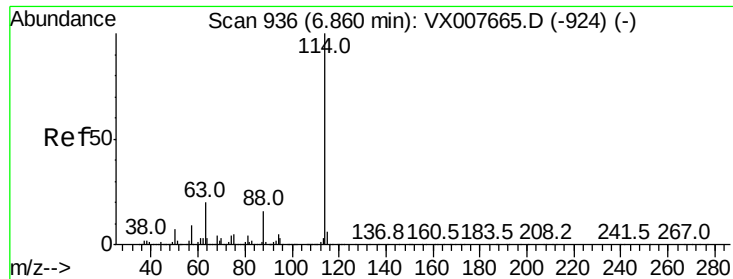
Tgt Ion: 65 Resp: 191583

Ion Ratio Lower Upper

65 100

67 52.8 0.0 108.8

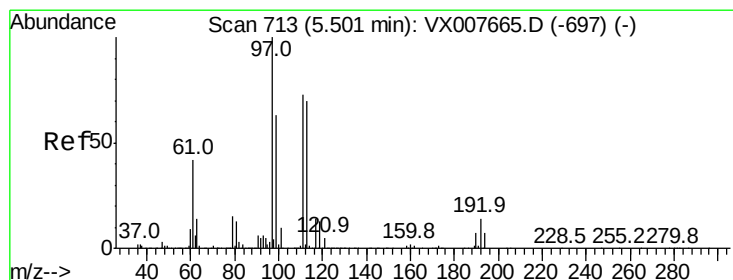
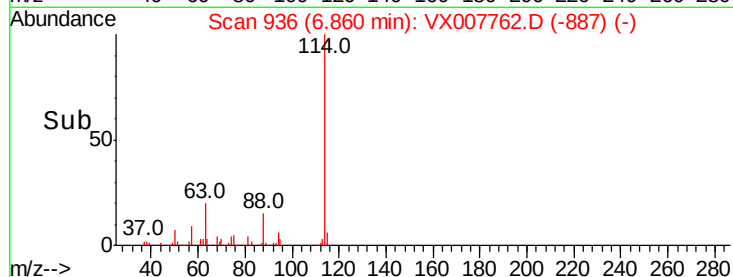
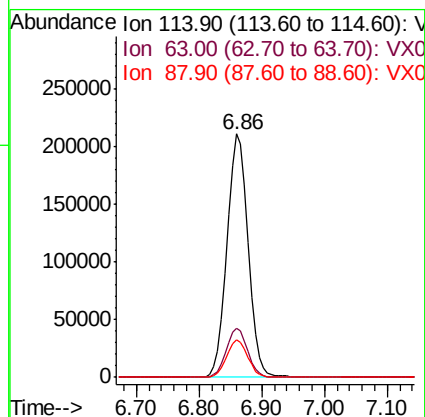
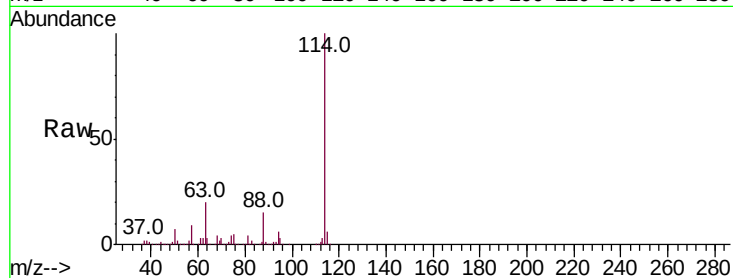




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX007762.D
 Acq: 28 Feb 2019 13:19

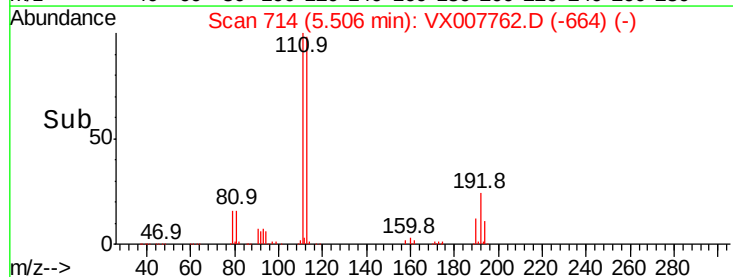
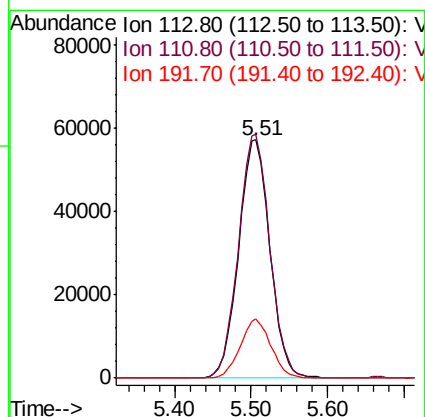
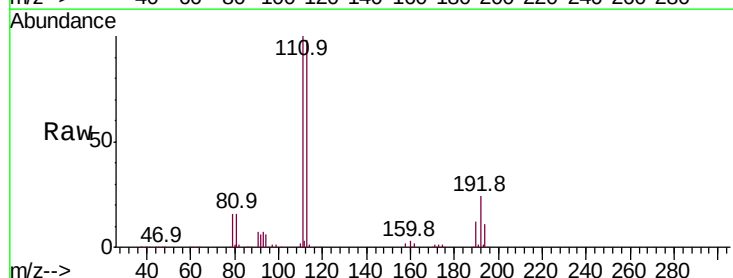
Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T0-UV(PRE)

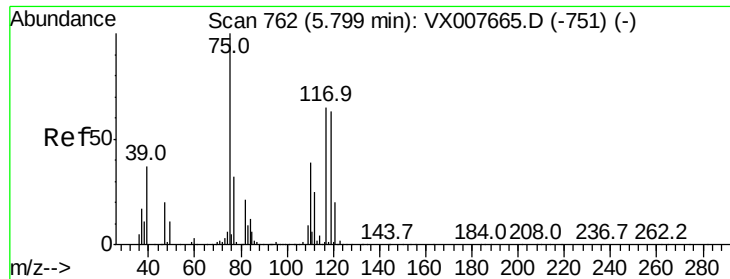
Tot Ion:	114	Resp:	491805
Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	35.6
88	15.4	0.0	29.6



#35
 Dibromofluoromethane
 Concen: 49.202 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX007762.D
 Acq: 28 Feb 2019 13:19

Tgt Ion:	113	Resp:	161755
Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.8	122.8
192	24.2	18.5	27.7





#36

1,1-Dichloropropene

Concen: 4.748 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007762.D

Acq: 28 Feb 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

M1-T0-UV(PRE)

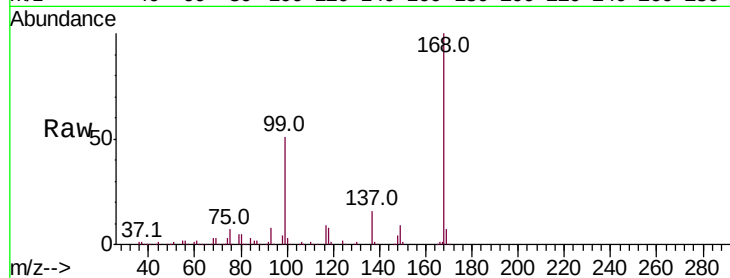
Tot Ion: 75 Resp: 20994

Ion Ratio Lower Upper

75 100

110 8.6 20.0 59.9#

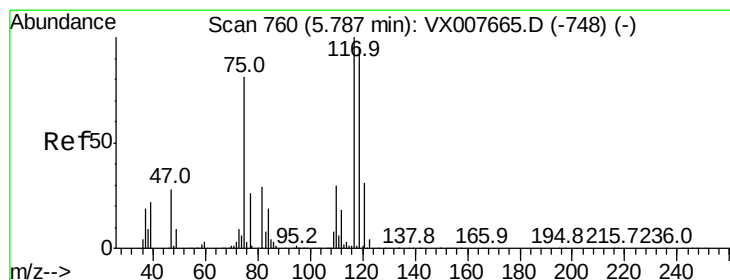
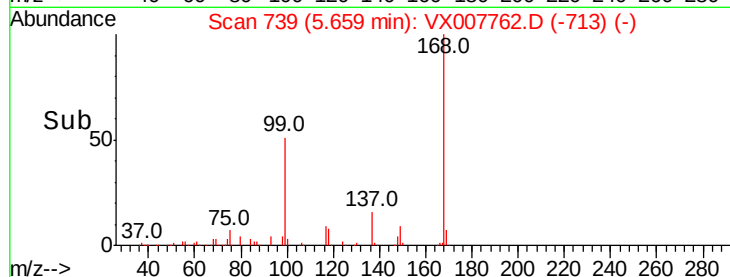
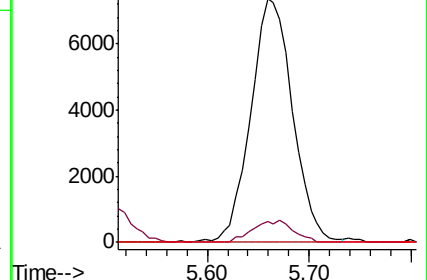
77 0.0 24.7 37.1#



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: 6.243 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.12 min

Lab File: VX007762.D

Acq: 28 Feb 2019 13:19

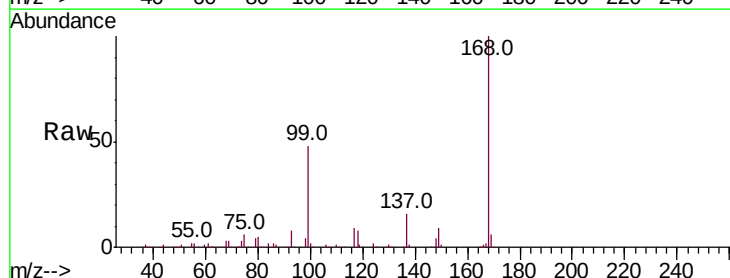
Tgt Ion: 117 Resp: 27729

Ion Ratio Lower Upper

117 100

119 6.0 75.3 112.9#

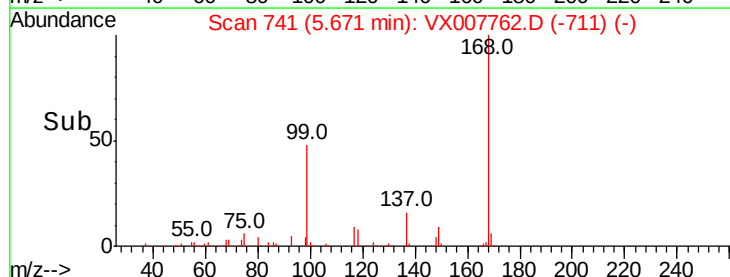
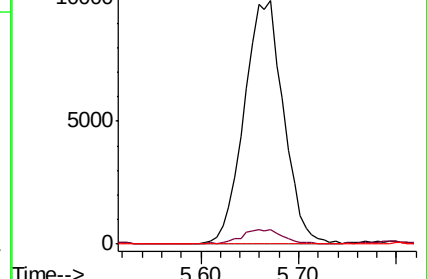
121 0.0 25.0 37.4#

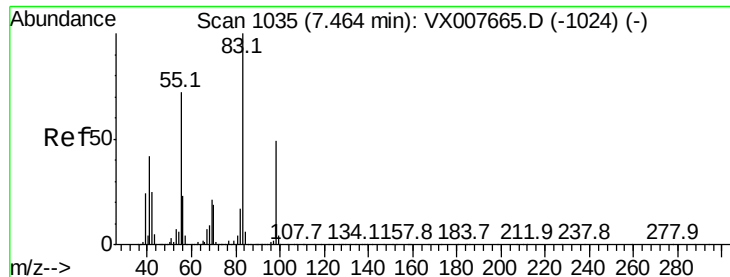


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

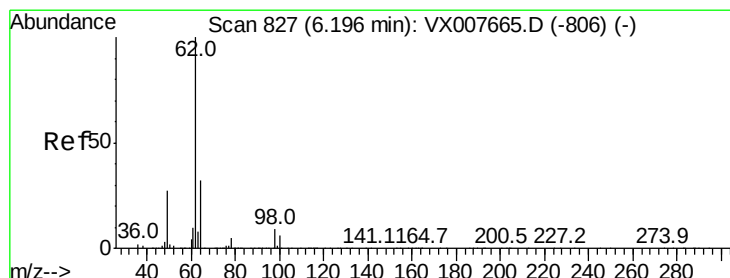
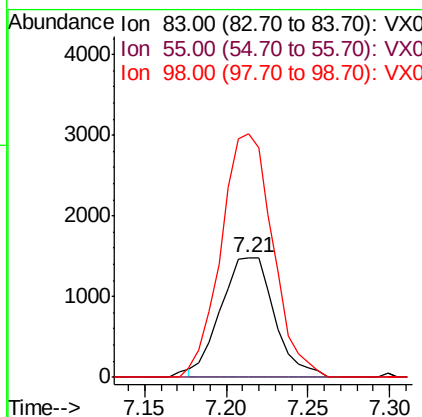
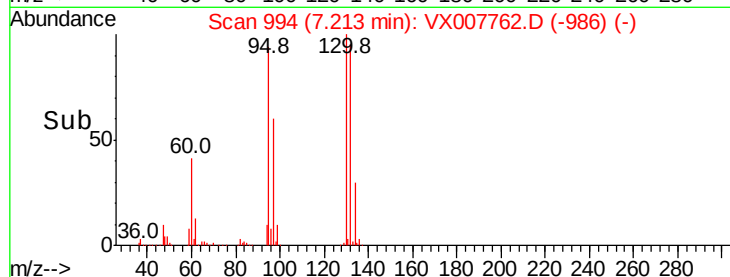
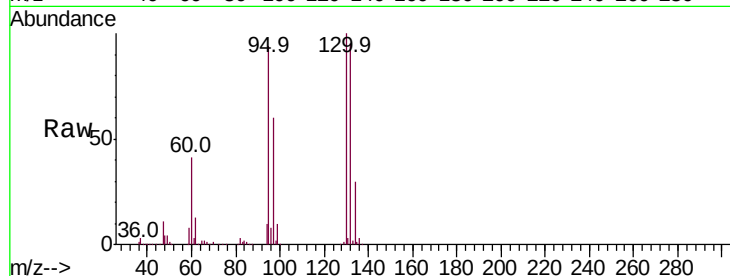




#39
Methvlcvclohexane
Concen: 0.605 ug/l
RT: 7.21 min Scan# 994
Delta R.T. -0.25 min
Lab File: VX007762.D
Acq: 28 Feb 2019 13:19

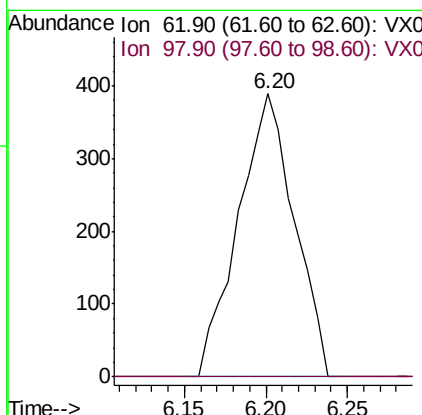
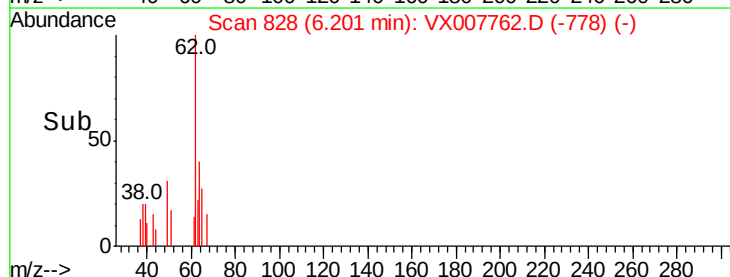
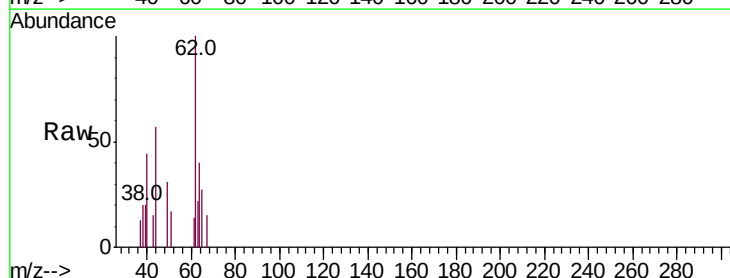
Instrument :
MSVOA_X
ClientSampleId :
M1-T0-UV(PRE)

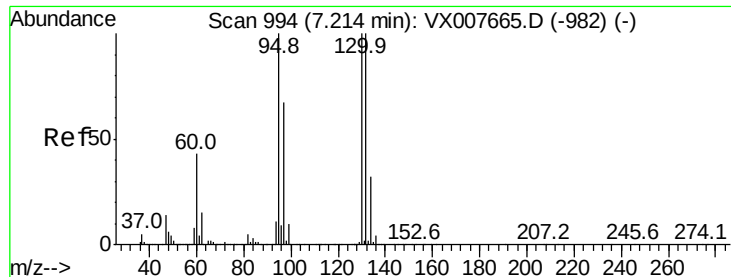
Tot Ion: 83 Resp: 3381
Ion Ratio Lower Upper
83 100
55 0.0 56.2 84.2#
98 203.0 36.8 55.2#



#42
1,2-Dichloroethane
Concen: 0.203 ug/l
RT: 6.20 min Scan# 828
Delta R.T. 0.01 min
Lab File: VX007762.D
Acq: 28 Feb 2019 13:19

Tgt Ion: 62 Resp: 931
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.0





#44

Trichloroethene

Concen: 75.684 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX007762.D

Acq: 28 Feb 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

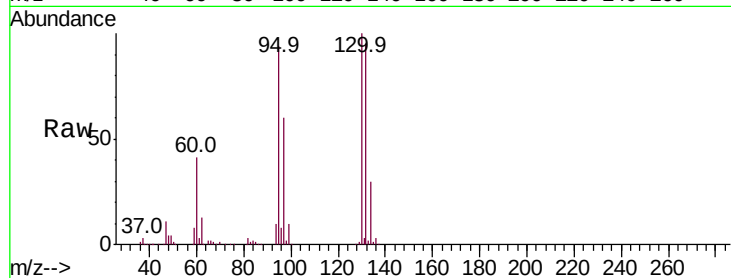
M1-T0-UV(PRE)

Tot Ion:130 Resp: 284169

Ion Ratio Lower Upper

130 100

95 94.3 0.0 180.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

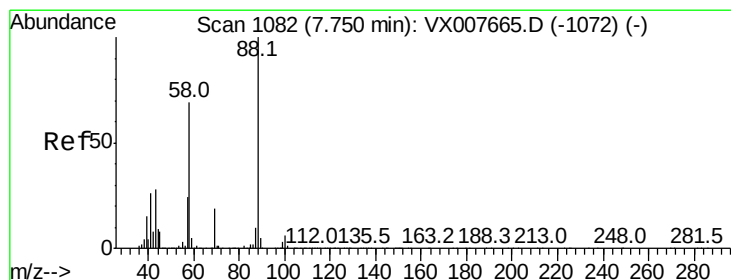
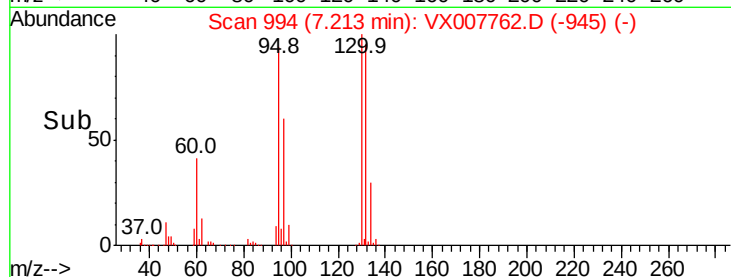
150000

100000

50000

0

Time-->



#49

1,4-Dioxane

Concen: 3.155 ug/l

RT: 7.77 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VX007762.D

Acq: 28 Feb 2019 13:19

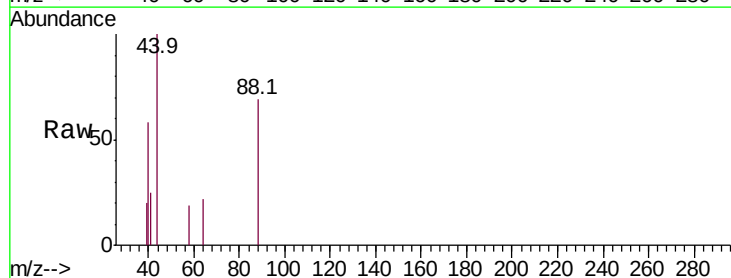
Tgt Ion: 88 Resp: 270

Ion Ratio Lower Upper

88 100

43 25.2 24.2 36.4

58 0.0 53.0 79.4#



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

250

200

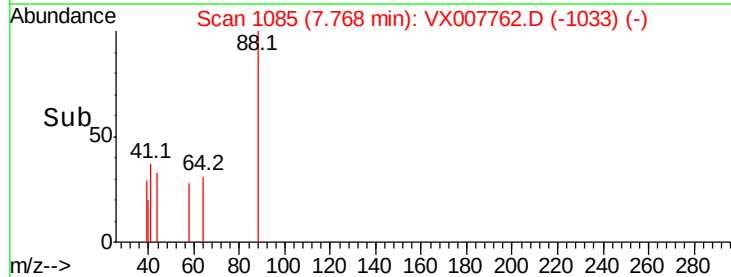
150

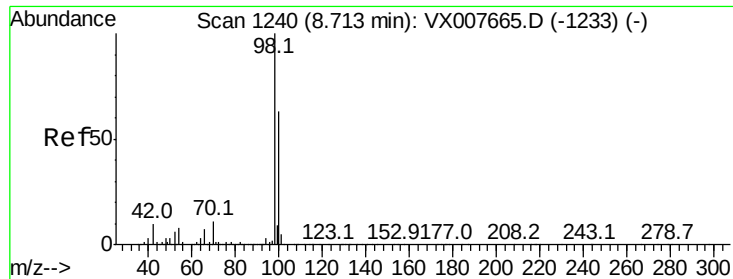
100

50

0

Time-->

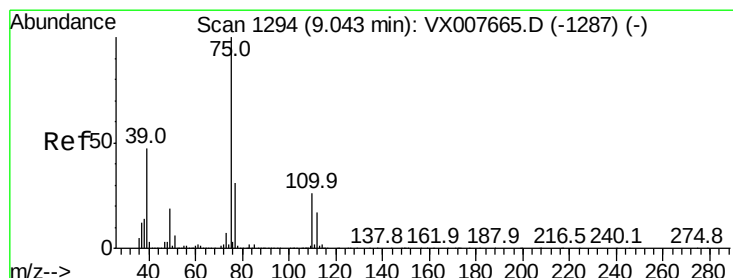
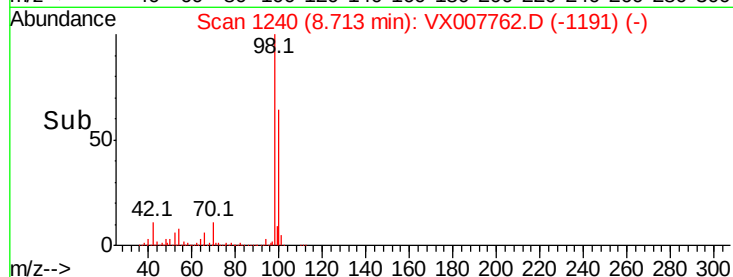
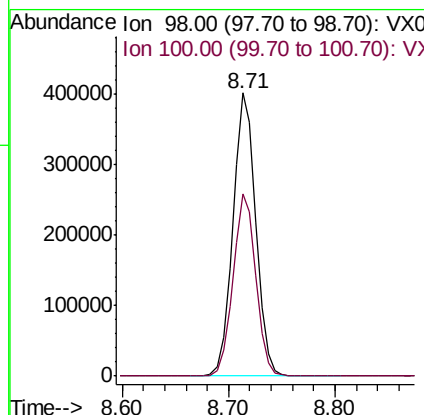
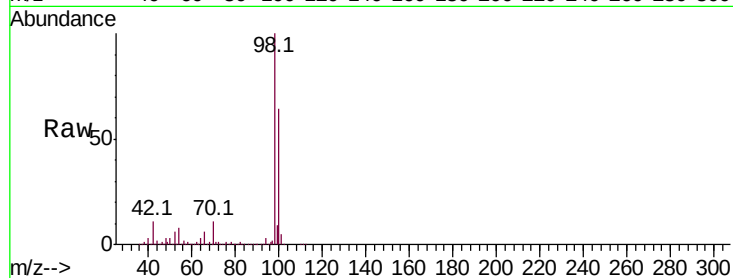




#50
Toluene-d8
Concen: 48.061 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX007762.D
Acq: 28 Feb 2019 13:19

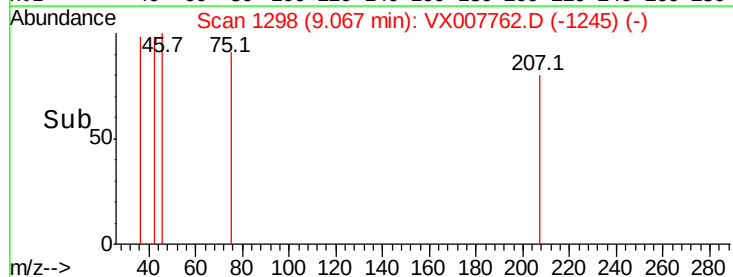
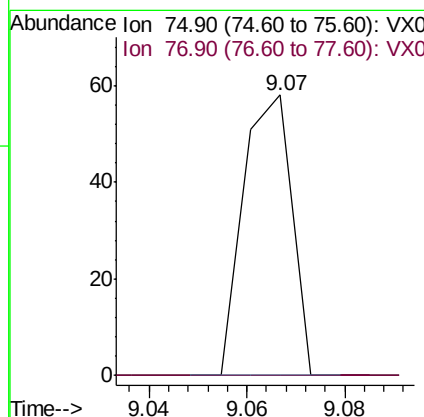
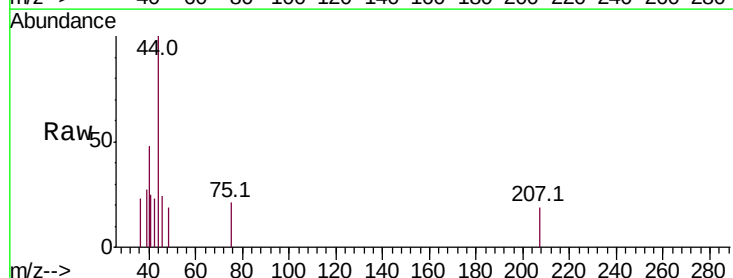
Instrument :
MSVOA_X
ClientSampleId :
M1-T0-UV(PRE)

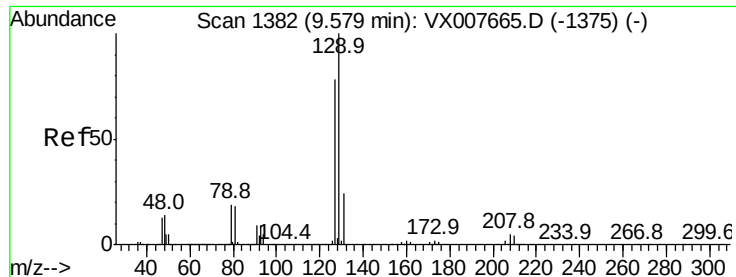
Tot Ion: 98 Resp: 604898
Ion Ratio Lower Upper
98 100
100 64.3 51.6 77.4



#53
t-1,3-Dichloropropene
Concen: 2.810 ug/l
RT: 9.07 min Scan# 1298
Delta R.T. 0.02 min
Lab File: VX007762.D
Acq: 28 Feb 2019 13:19

Tgt Ion: 75 Resp: 40
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#





#60

Dibromochloromethane

Concen: 8.623 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX007762.D

Acq: 28 Feb 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

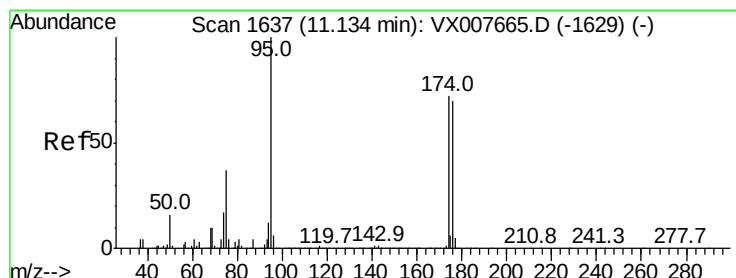
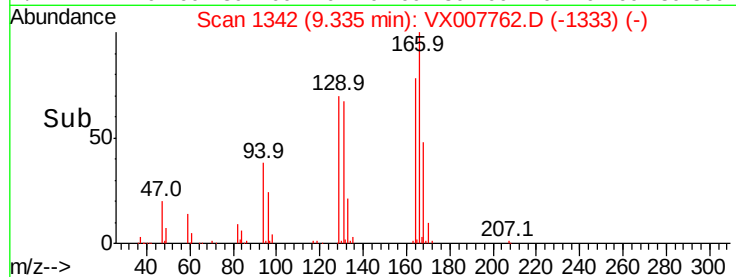
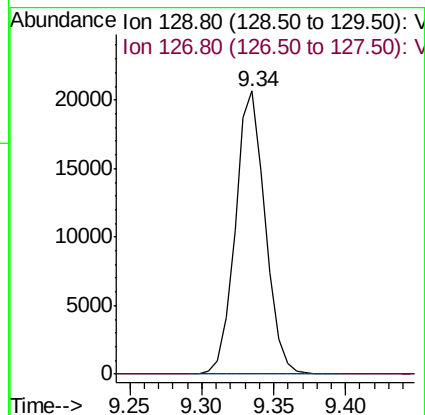
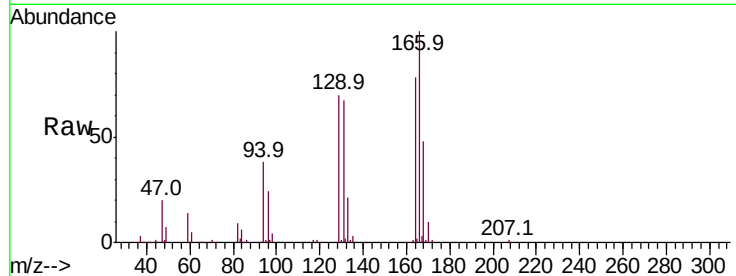
M1-T0-UV(PRE)

Tot Ion:129 Resp: 29779

Ion Ratio Lower Upper

129 100

127 0.0 37.8 113.4#



#62

4-Bromofluorobenzene

Concen: 46.482 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007762.D

Acq: 28 Feb 2019 13:19

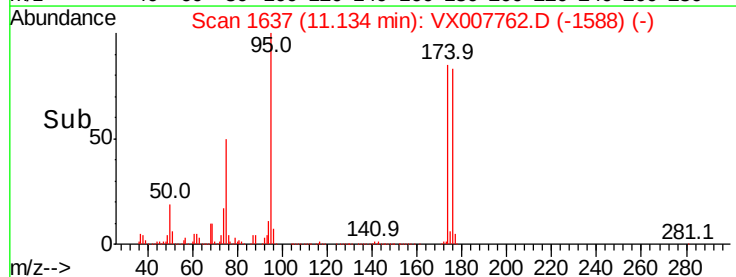
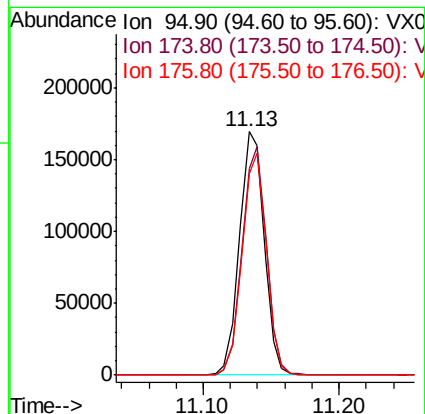
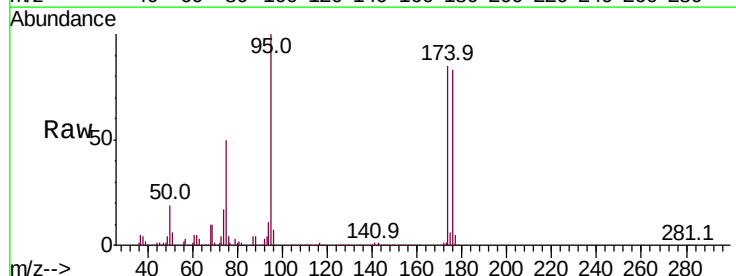
Tgt Ion: 95 Resp: 214727

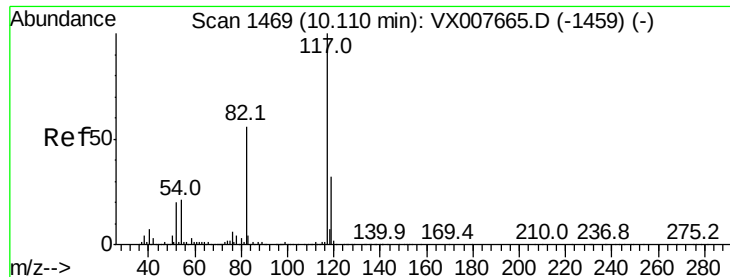
Ion Ratio Lower Upper

95 100

174 92.6 0.0 189.2

176 90.0 0.0 186.2

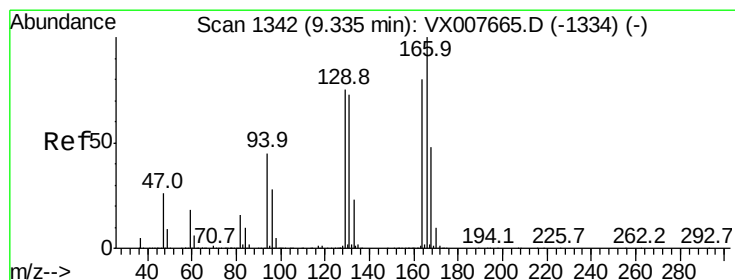
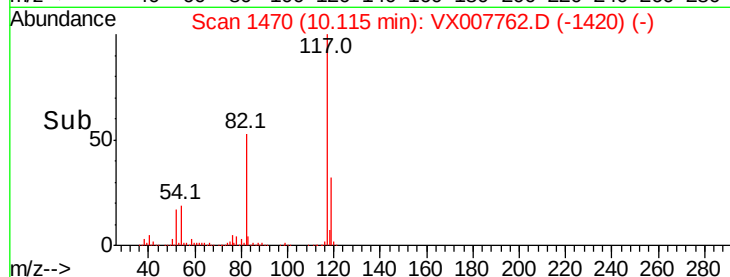
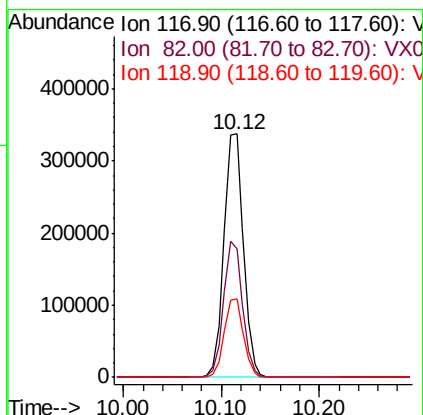
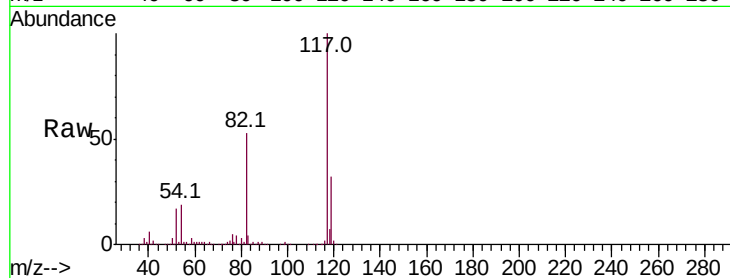




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX007762.D
Acq: 28 Feb 2019 13:19

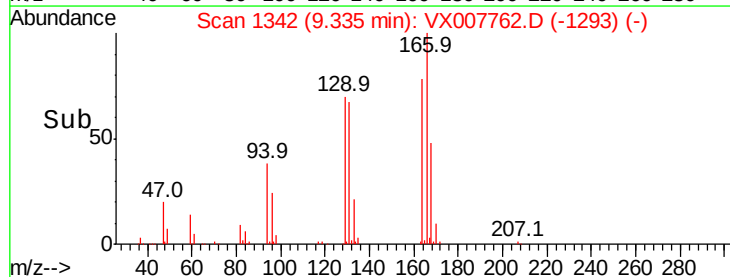
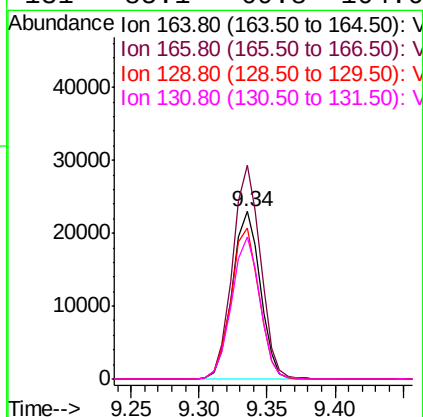
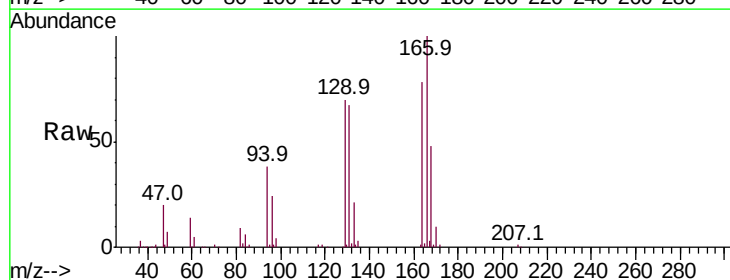
Instrument :
MSVOA_X
ClientSampleId :
M1-T0-UV(PRE)

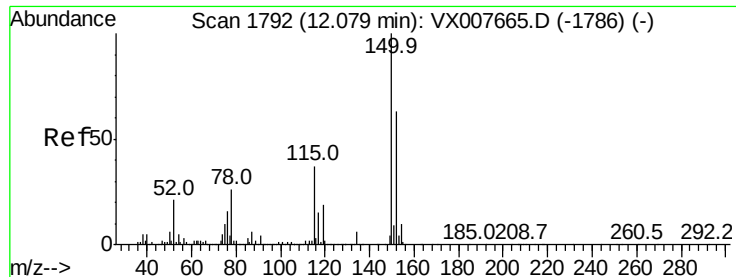
Tot Ion:117 Resp: 467798
Ion Ratio Lower Upper
117 100
82 52.6 42.1 63.1
119 32.1 26.5 39.7



#64
Tetrachloroethene
Concen: 8.717 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX007762.D
Acq: 28 Feb 2019 13:19

Tgt Ion:164 Resp: 33103
Ion Ratio Lower Upper
164 100
166 127.4 101.0 151.4
129 89.8 70.5 105.7
131 85.1 69.8 104.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007762.D

Acq: 28 Feb 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

M1-T0-UV(PRE)

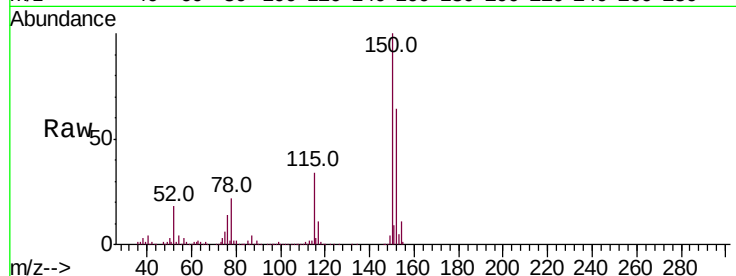
Tot Ion:152 Resp: 222208

Ion Ratio Lower Upper

152 100

115 54.6 38.0 114.0

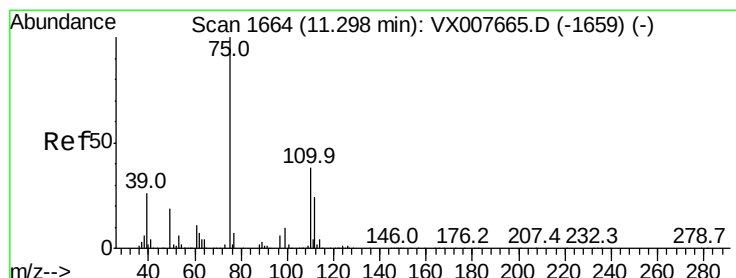
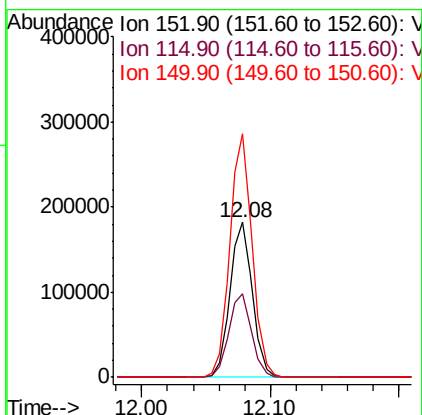
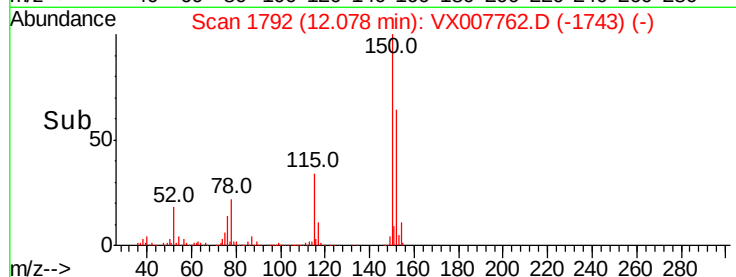
150 156.5 0.0 346.4



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: 22.114 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007762.D

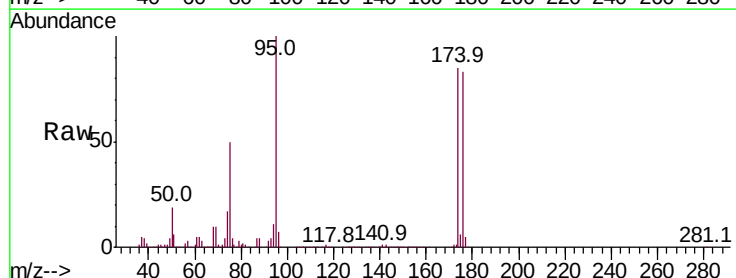
Acq: 28 Feb 2019 13:19

Tgt Ion: 75 Resp: 104741

Ion Ratio Lower Upper

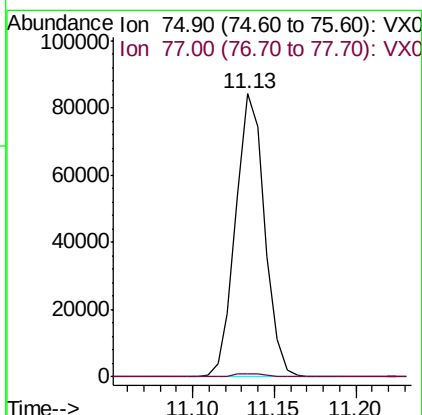
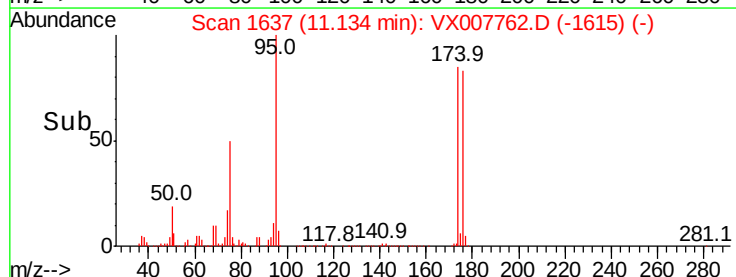
75 100

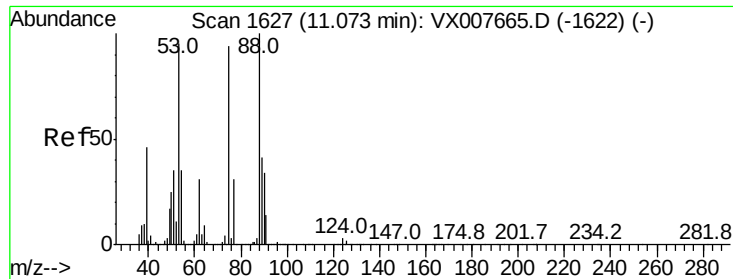
77 1.2 23.0 69.0#



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: 58.701 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007762.D

Acq: 28 Feb 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

M1-T0-UV(PRE)

Tot Ion: 75 Resp: 104741

Ion Ratio Lower Upper

75 100

53 0.1 81.0 121.6#

89 0.0 41.4 62.0#

