

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022819\
 Data File : VX007760.D
 Acq On : 28 Feb 2019 12:25
 Operator : JC/SP
 Sample : K1603-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T2-OZ(PRE)

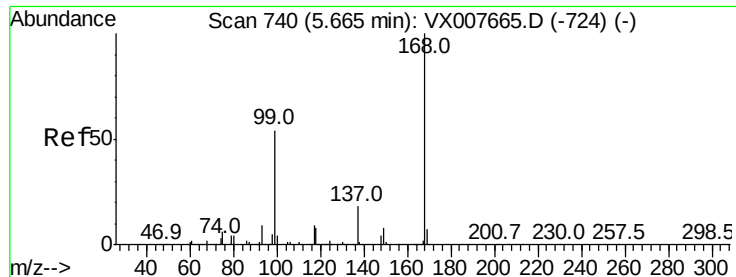
Quant Time: Mar 01 01:29:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 01:53:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	313312	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	488069	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	465571	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	221466	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	190736	49.15	ug/l	0.00
Spiked Amount			Recovery	=	98.30%	
35) Dibromofluoromethane	5.51	113	160284	49.13	ug/l	0.00
Spiked Amount			Recovery	=	98.26%	
50) Toluene-d8	8.71	98	599130	47.97	ug/l	0.00
Spiked Amount			Recovery	=	95.94%	
62) 4-Bromofluorobenzene	11.13	95	216399	47.20	ug/l	0.00
Spiked Amount			Recovery	=	94.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	27463	8.587	ug/l #	43
5) Bromomethane	1.65	94	352	Below Cal		87
11) Tert butyl alcohol	3.03	59	5048	6.855	ug/l #	73
16) Acetone	2.45	43	5578	3.232	ug/l	100
18) Methyl Acetate	2.78	43	1918	0.509	ug/l	96
19) Methyl tert-butyl Ether	3.21	73	5091	0.533	ug/l	92
24) 1,1-Dichloroethane	3.70	63	6731	1.174	ug/l	98
25) 2-Butanone	4.70	43	3965	1.508	ug/l #	89
29) Tetrahydrofuran	5.16	42	4615	2.663	ug/l	88
30) Chloroform	5.22	83	1675	0.273	ug/l	96
31) Cyclohexane	5.67	56	5580	1.035	ug/l #	1
32) 1,1,1-Trichloroethane	5.49	97	2382	0.469	ug/l #	48
36) 1,1-Dichloropropene	5.67	75	20413	4.652	ug/l #	47
38) Carbon Tetrachloride	5.67	117	27070	6.142	ug/l #	18
44) Trichloroethene	7.21	130	4289	1.151	ug/l	93
53) t-1,3-Dichloropropene	9.04	75	31	2.808	ug/l #	43
60) Dibromochloromethane	9.34	129	3697	1.079	ug/l #	12
64) Tetrachloroethene	9.34	164	4046	1.070	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	104559	22.149	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	104559	58.791	ug/l #	9

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007760.D

Acq: 28 Feb 2019 12:25

Instrument :

MSVOA_X

ClientSampleId :

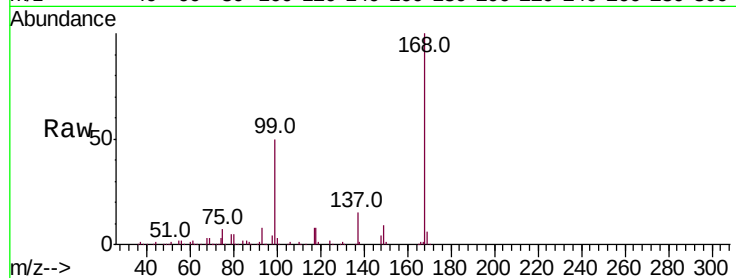
M1-T2-OZ(PRE)

Tot Ion:168 Resp: 313312

Ion Ratio Lower Upper

168 100

99 50.4 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

120000

100000

80000

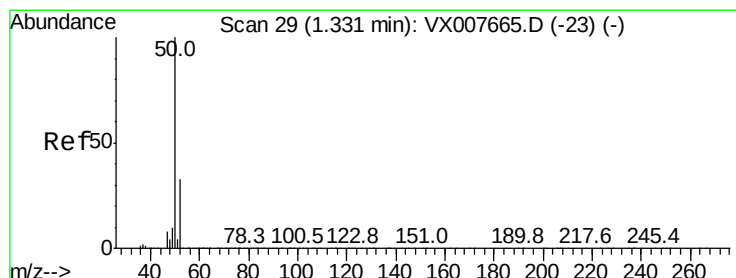
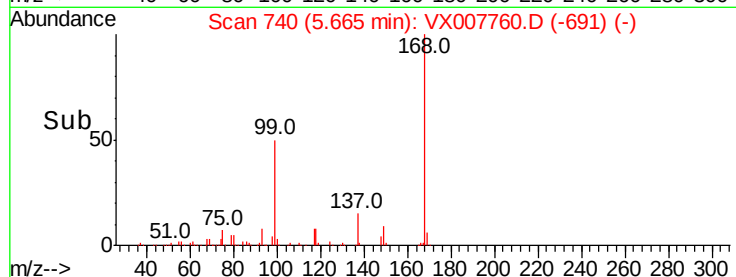
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 8.587 ug/l

RT: 1.32 min Scan# 27

Delta R.T. -0.01 min

Lab File: VX007760.D

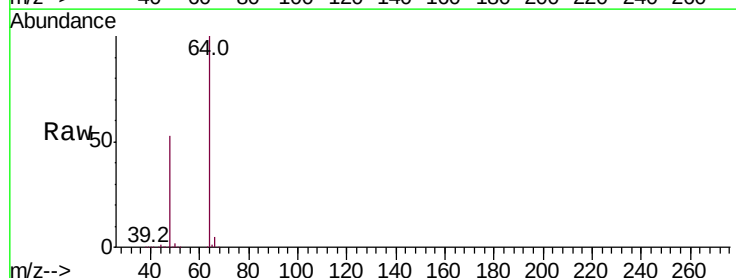
Acq: 28 Feb 2019 12:25

Tgt Ion: 50 Resp: 27463

Ion Ratio Lower Upper

50 100

52 0.8 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

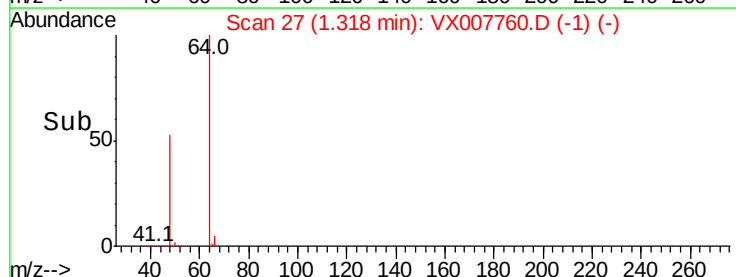
30000

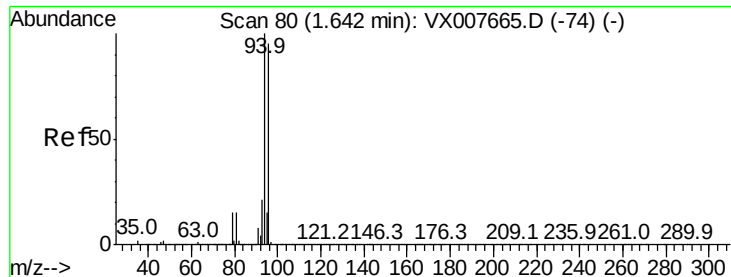
20000

10000

0

Time--> 1.30 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX007760.D

Acq: 28 Feb 2019 12:25

Instrument :

MSVOA_X

ClientSampleId :

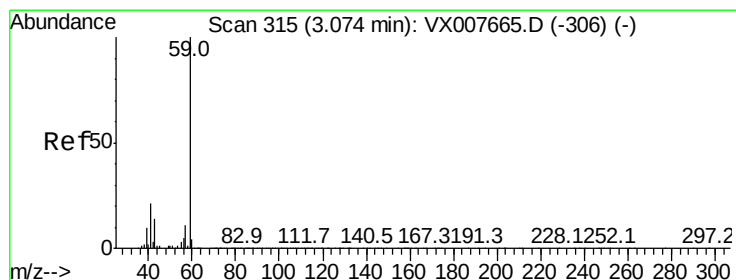
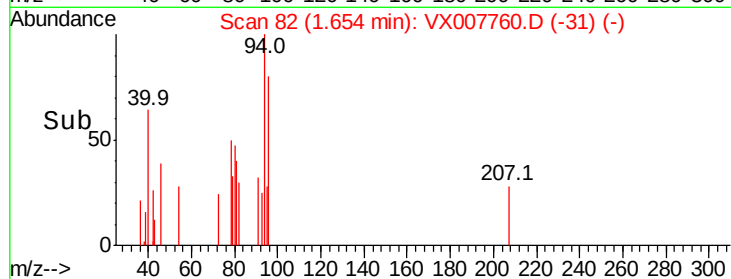
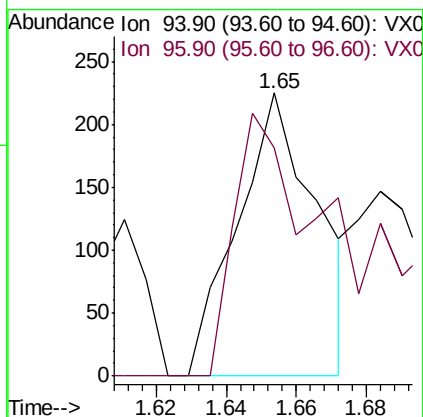
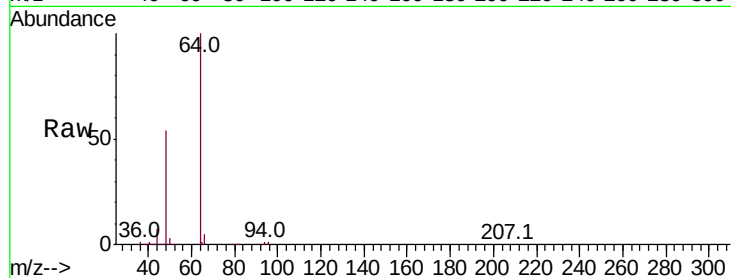
M1-T2-OZ(PRE)

Tot Ion: 94 Resp: 352

Ion Ratio Lower Upper

94 100

96 80.4 73.9 110.9



#11

Tert butyl alcohol

Concen: 6.855 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX007760.D

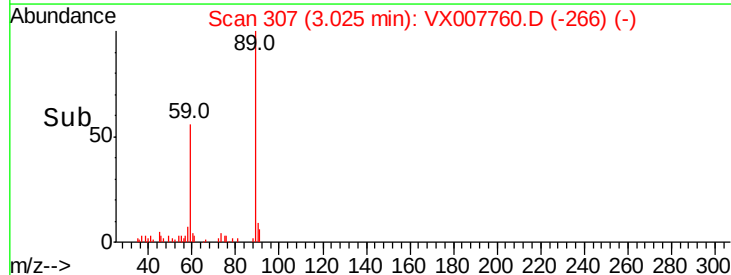
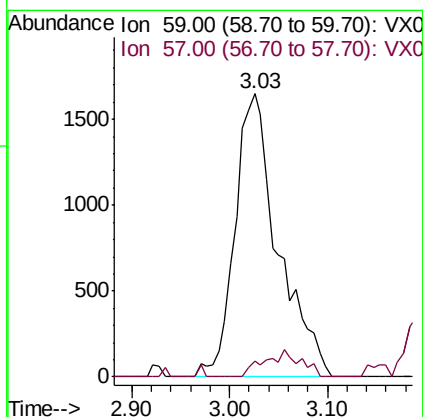
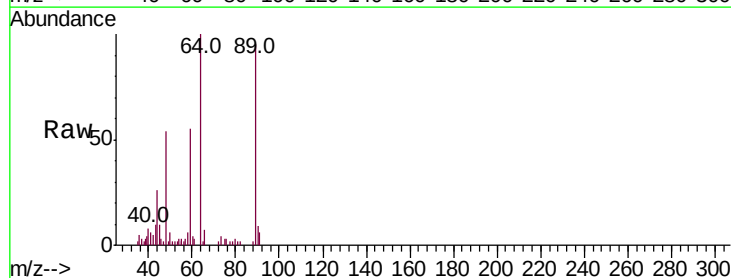
Acq: 28 Feb 2019 12:25

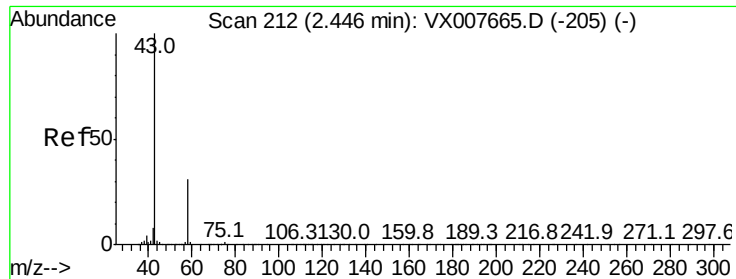
Tgt Ion: 59 Resp: 5048

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#





#16

Acetone

Concen: 3.232 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007760.D

Acq: 28 Feb 2019 12:25

Instrument :

MSVOA_X

ClientSampleId :

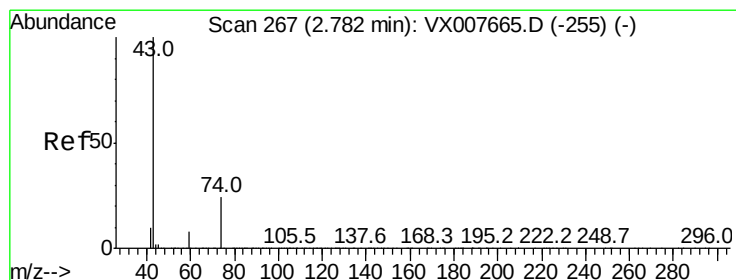
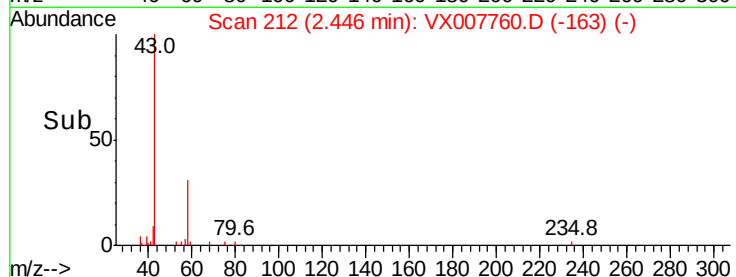
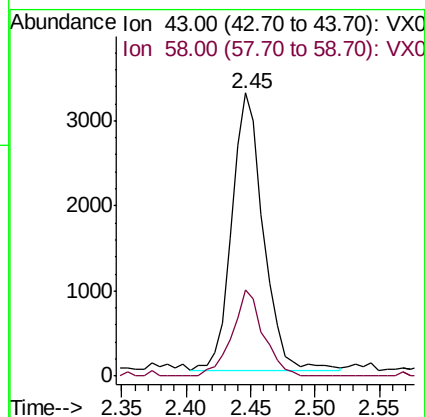
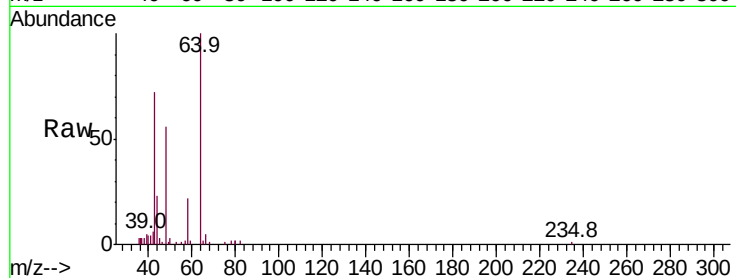
M1-T2-OZ(PRE)

Tot Ion: 43 Resp: 5578

Ion Ratio Lower Upper

43 100

58 30.9 24.9 37.3



#18

Methyl Acetate

Concen: 0.509 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX007760.D

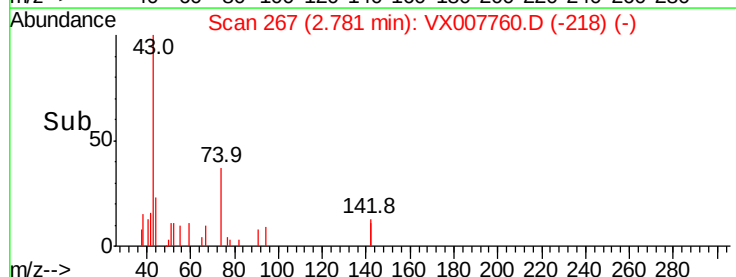
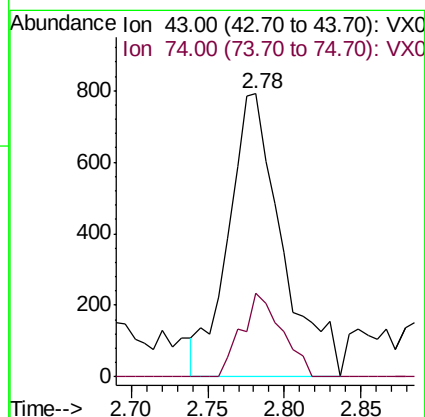
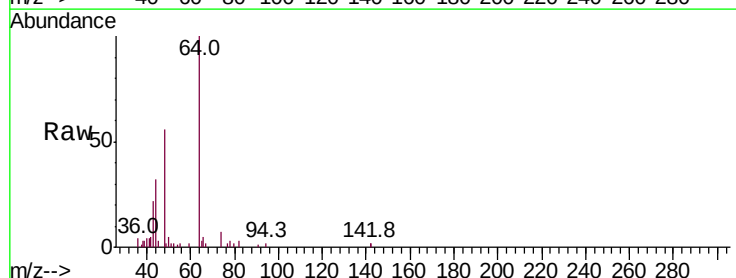
Acq: 28 Feb 2019 12:25

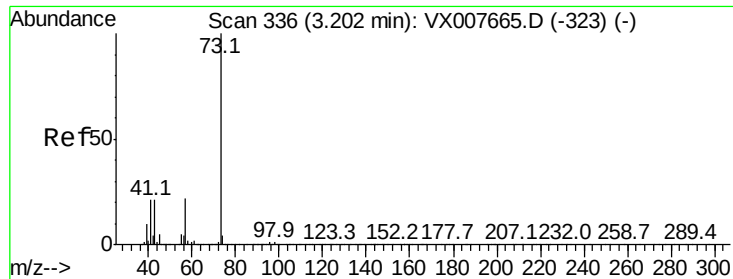
Tgt Ion: 43 Resp: 1918

Ion Ratio Lower Upper

43 100

74 22.2 19.4 29.2



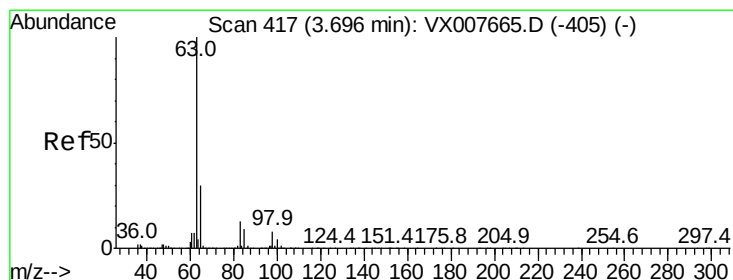
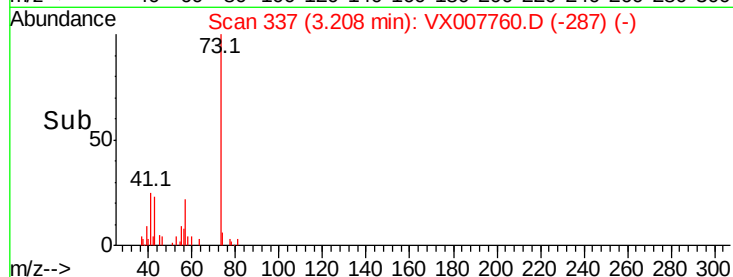
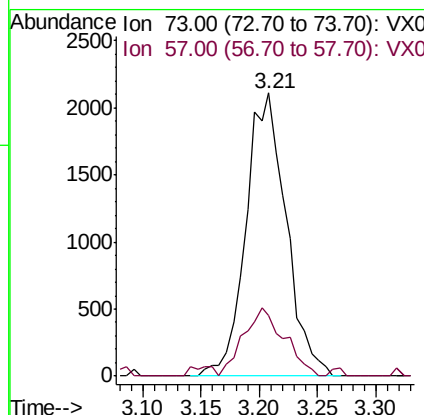
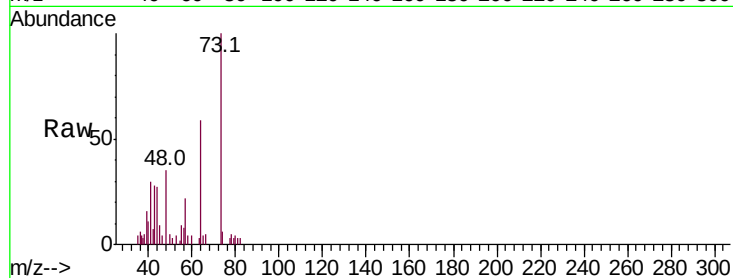


#19

Methyl tert-butyl Ether
 Concen: 0.533 ug/l
 RT: 3.21 min Scan# 337
 Delta R.T. 0.01 min
 Lab File: VX007760.D
 Acq: 28 Feb 2019 12:25

Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T2-OZ(PRE)

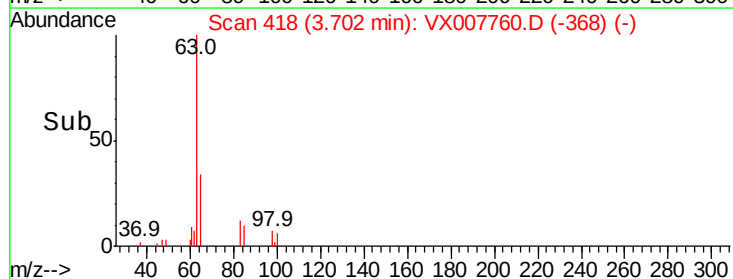
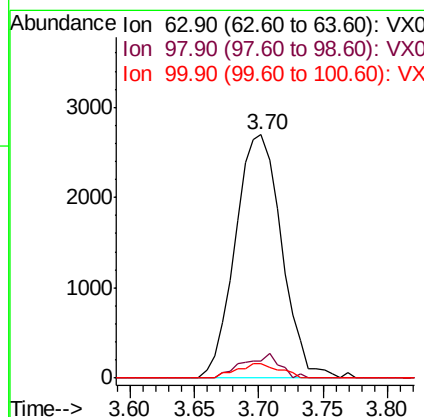
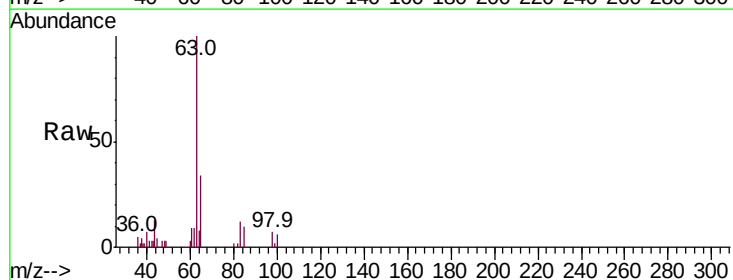
Tot Ion: 73 Resp: 5091
 Ion Ratio Lower Upper
 73 100
 57 18.6 17.8 26.8

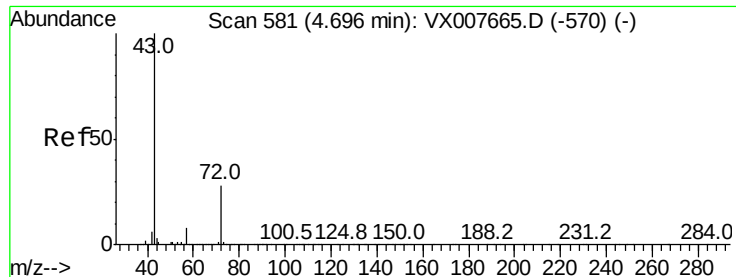


#24

1,1-Dichloroethane
 Concen: 1.174 ug/l
 RT: 3.70 min Scan# 418
 Delta R.T. 0.01 min
 Lab File: VX007760.D
 Acq: 28 Feb 2019 12:25

Tgt Ion: 63 Resp: 6731
 Ion Ratio Lower Upper
 63 100
 98 6.9 3.6 10.8
 100 5.9 2.5 7.4

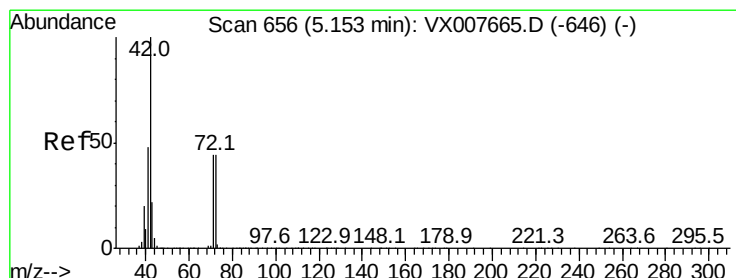
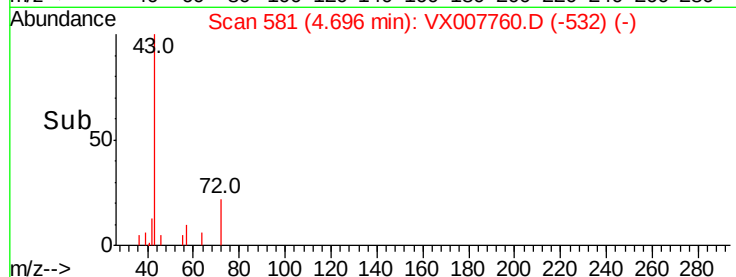
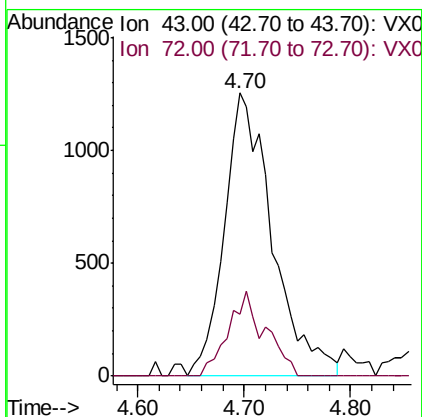
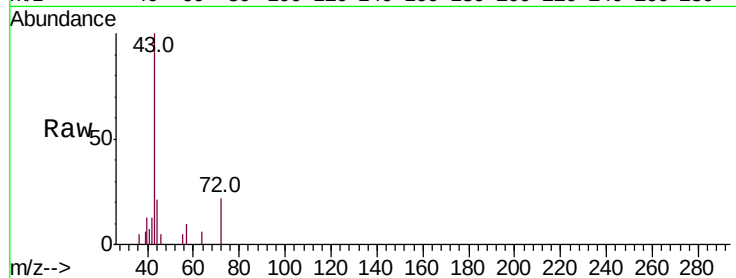




#25
2-Butanone
Concen: 1.508 ug/l
RT: 4.70 min Scan# 581
Delta R.T. -0.00 min
Lab File: VX007760.D
Acq: 28 Feb 2019 12:25

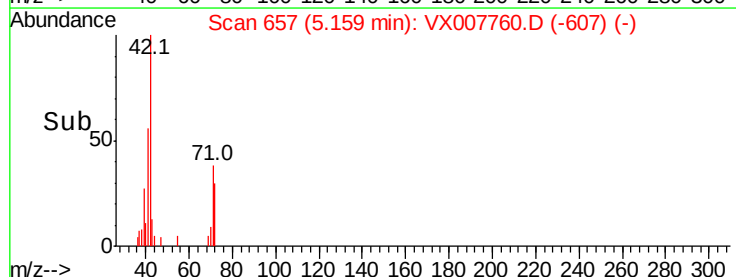
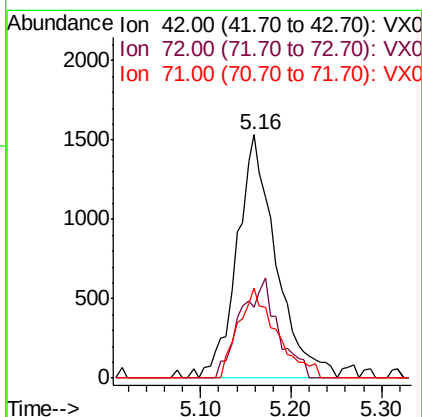
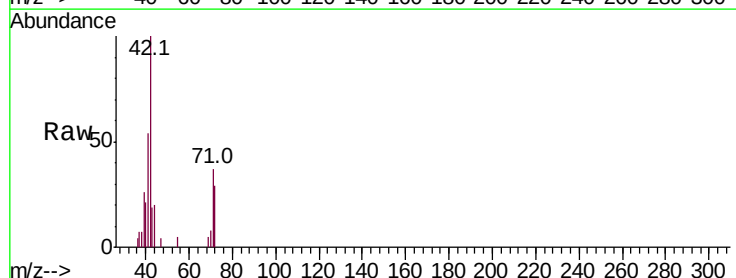
Instrument :
MSVOA_X
ClientSampleId :
M1-T2-OZ(PRE)

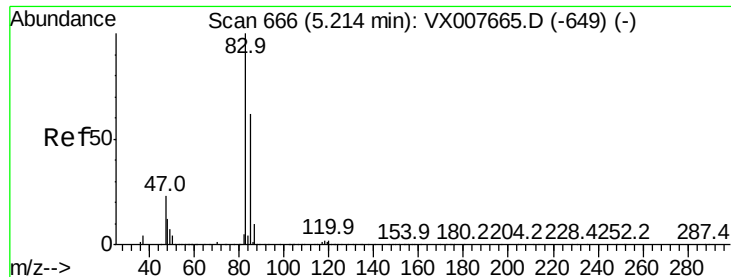
Tot Ion: 43 Resp: 3965
Ion Ratio Lower Upper
43 100
72 21.8 22.2 33.2#



#29
Tetrahydrofuran
Concen: 2.663 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX007760.D
Acq: 28 Feb 2019 12:25

Tgt Ion: 42 Resp: 4615
Ion Ratio Lower Upper
42 100
72 38.9 37.6 56.4
71 36.1 34.6 51.8

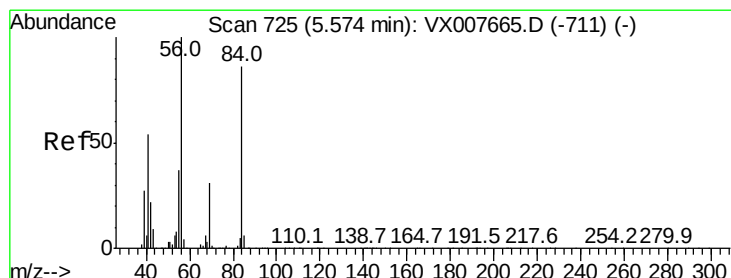
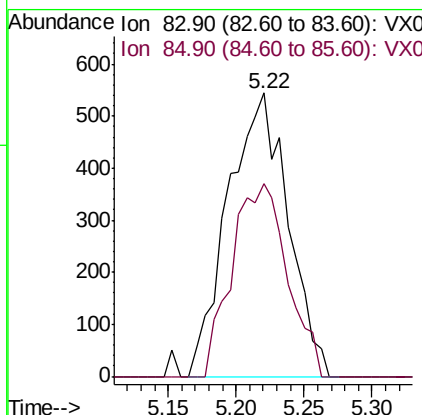
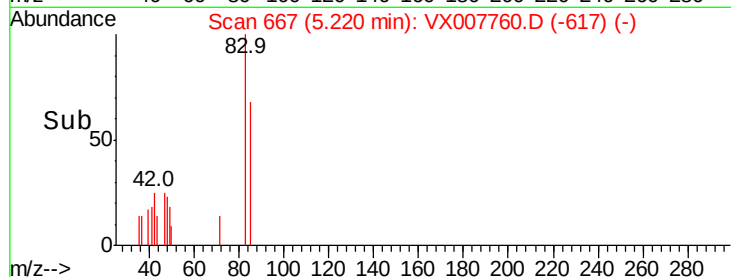
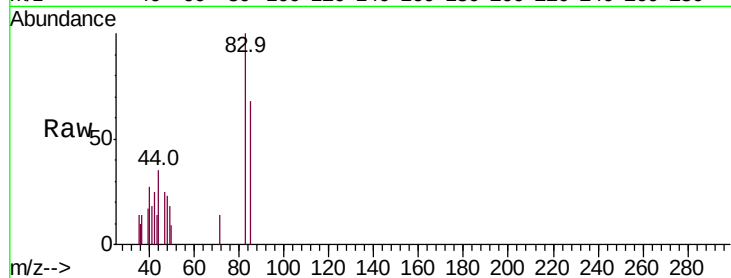




#30
Chloroform
Concen: 0.273 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX007760.D
Acq: 28 Feb 2019 12:25

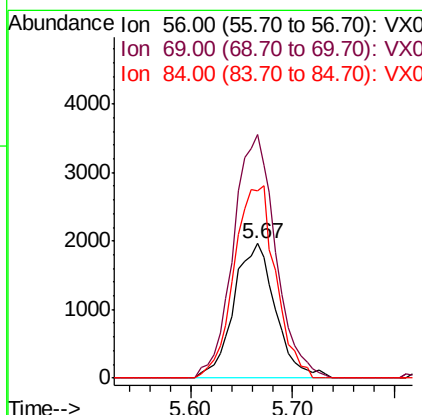
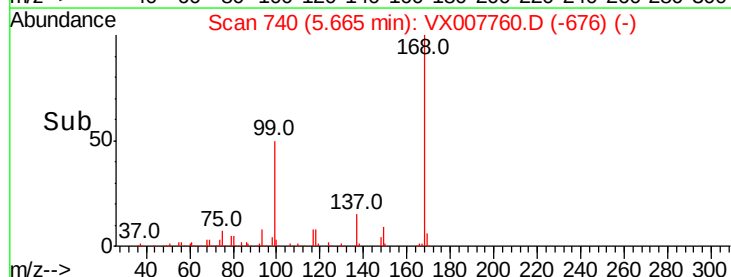
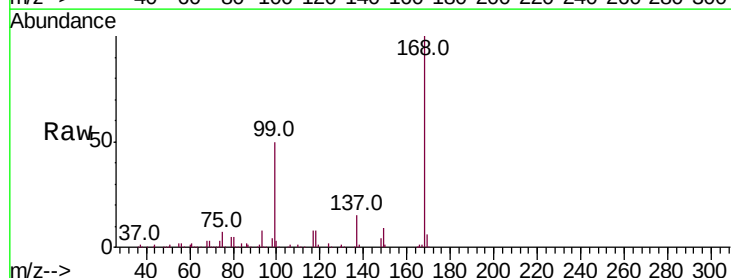
Instrument :
MSVOA_X
ClientSampleId :
M1-T2-OZ(PRE)

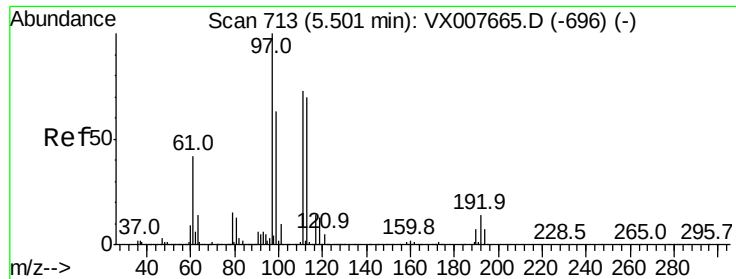
Tot Ion: 83 Resp: 1675
Ion Ratio Lower Upper
83 100
85 68.0 51.6 77.4



#31
Cyclohexane
Concen: 1.035 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX007760.D
Acq: 28 Feb 2019 12:25

Tgt Ion: 56 Resp: 5580
Ion Ratio Lower Upper
56 100
69 181.4 23.0 34.6#
84 140.0 69.8 104.6#





#32

1,1,1-Trichloroethane

Concen: 0.469 ug/l

RT: 5.49 min Scan# 711

Delta R.T. -0.01 min

Lab File: VX007760.D

Acq: 28 Feb 2019 12:25

Instrument :

MSVOA_X

ClientSampleId :

M1-T2-OZ(PRE)

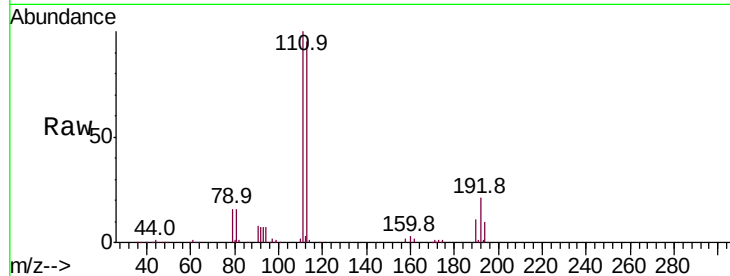
Tot Ion: 97 Resp: 2382

Ion Ratio Lower Upper

97 100

99 0.0 52.2 78.2#

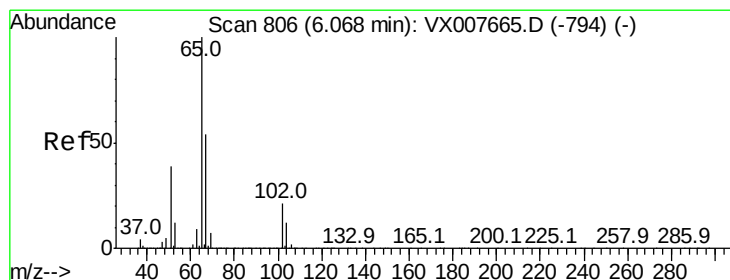
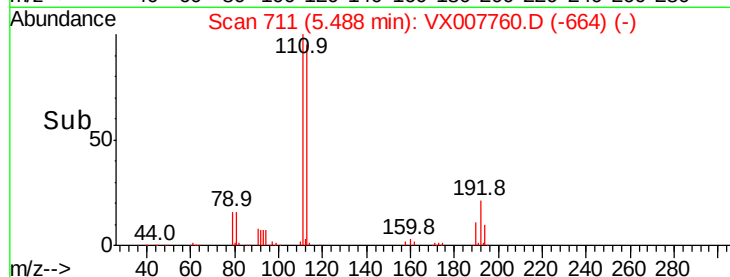
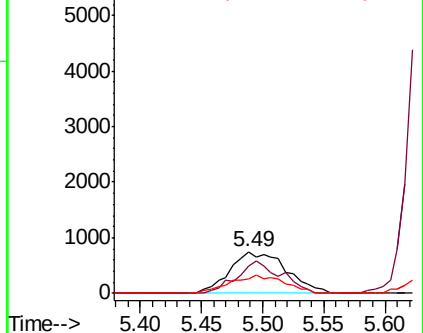
61 42.7 32.7 49.1



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: 49.147 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007760.D

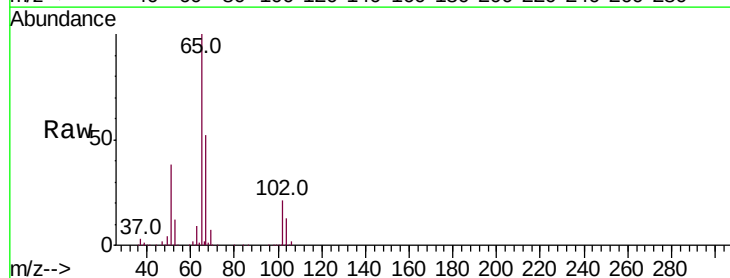
Acq: 28 Feb 2019 12:25

Tgt Ion: 65 Resp: 190736

Ion Ratio Lower Upper

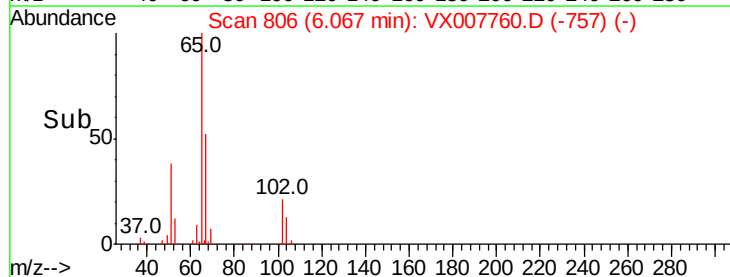
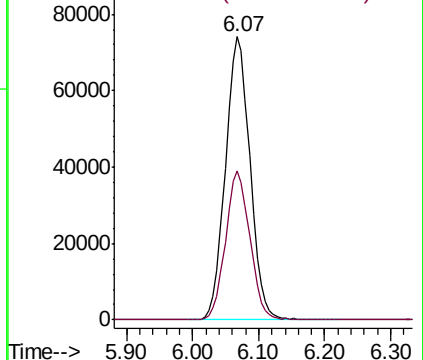
65 100

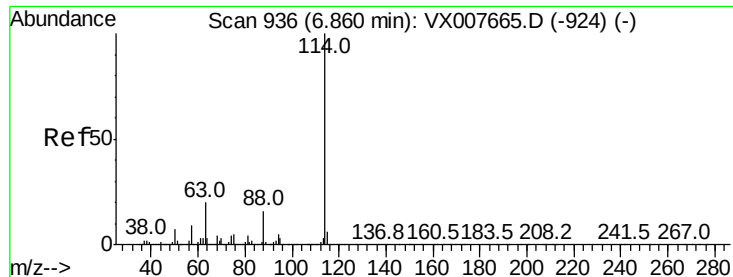
67 52.0 0.0 108.8



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: VX007760.D

Acq: 28 Feb 2019 12:25

Instrument :

MSVOA_X

ClientSampleId :

M1-T2-OZ(PRE)

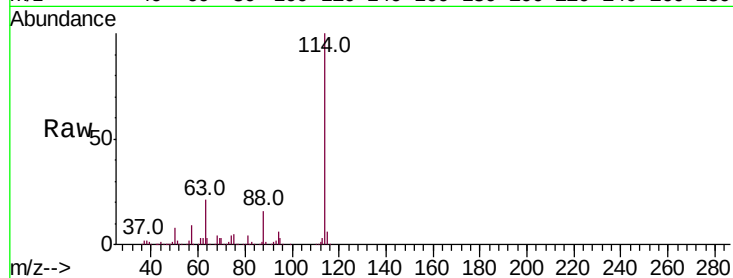
Tot Ion:114 Resp: 488069

Ion Ratio Lower Upper

114 100

63 20.5 0.0 35.6

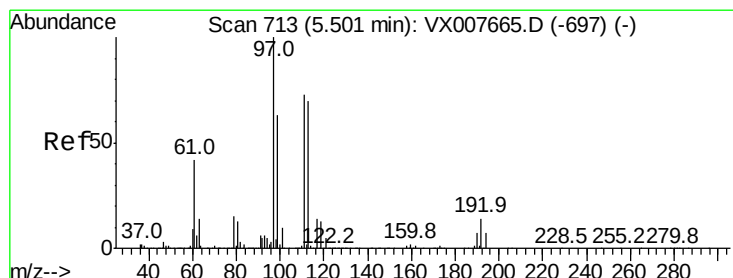
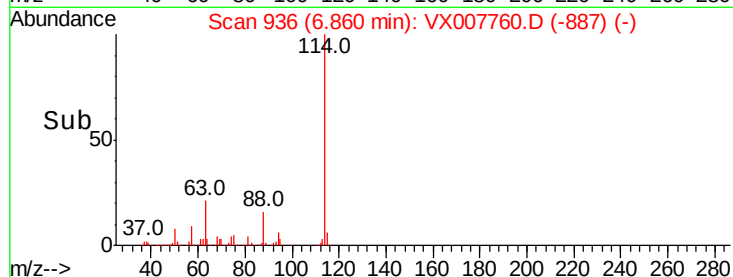
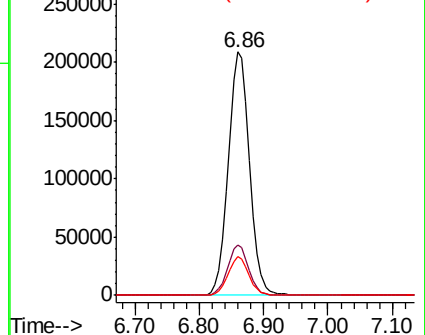
88 15.8 0.0 29.6



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



#35

Dibromofluoromethane

Concen: 49.128 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007760.D

Acq: 28 Feb 2019 12:25

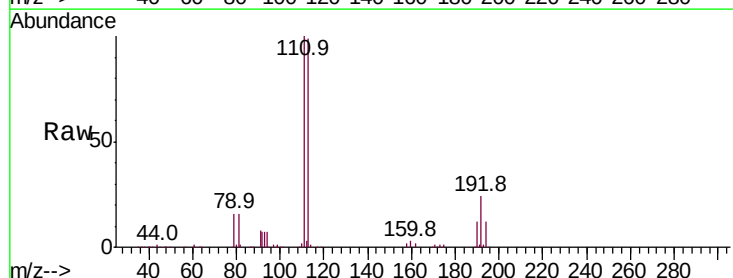
Tgt Ion:113 Resp: 160284

Ion Ratio Lower Upper

113 100

111 103.2 81.8 122.8

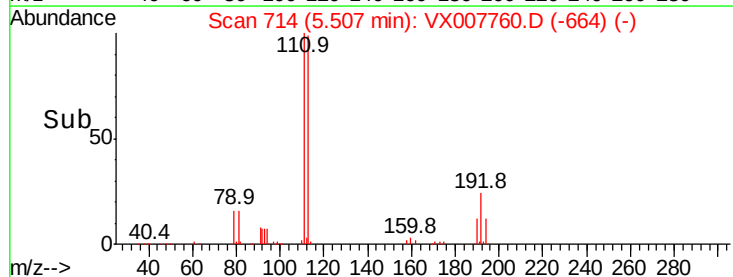
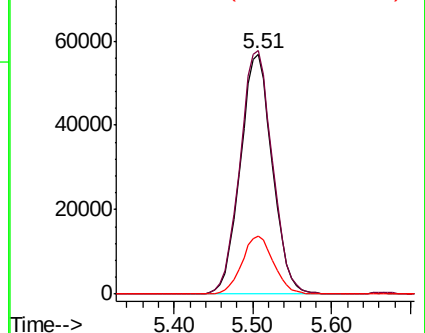
192 24.0 18.5 27.7

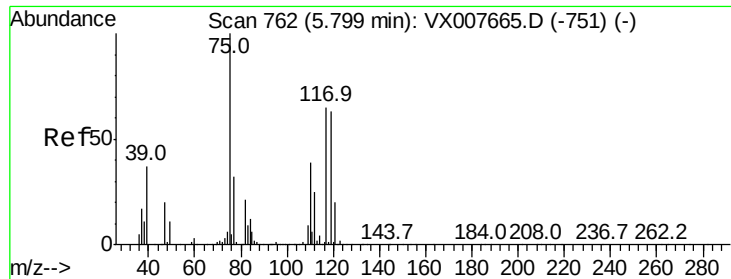


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.652 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007760.D

Acq: 28 Feb 2019 12:25

Instrument :

MSVOA_X

ClientSampleId :

M1-T2-OZ(PRE)

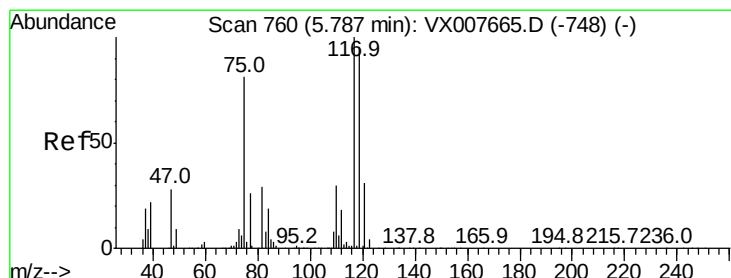
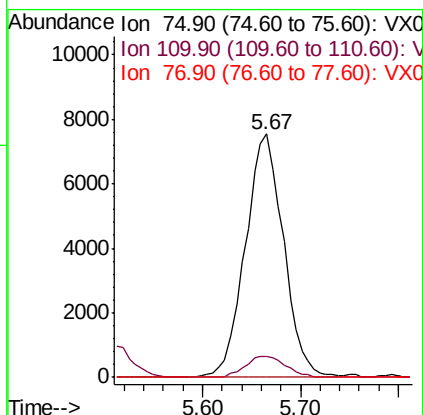
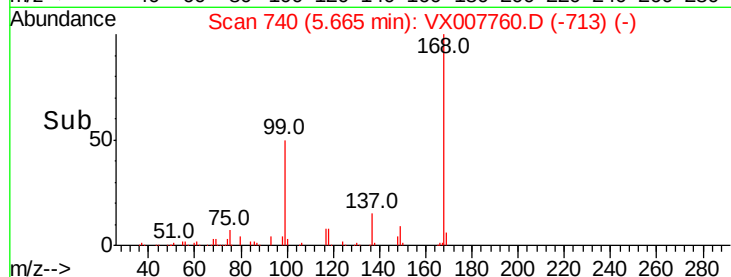
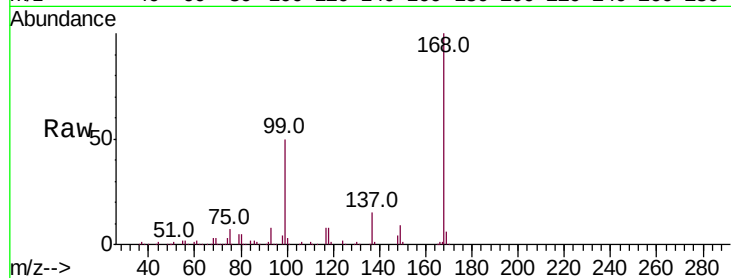
Tot Ion: 75 Resp: 20413

Ion Ratio Lower Upper

75 100

110 9.2 20.0 59.9#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 6.142 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007760.D

Acq: 28 Feb 2019 12:25

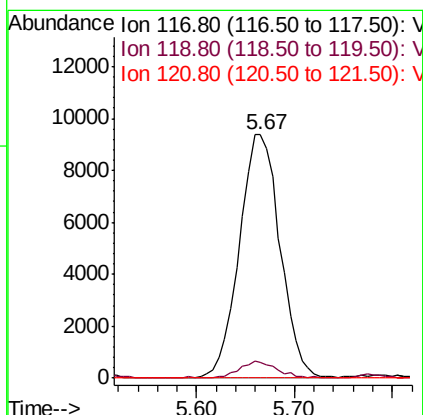
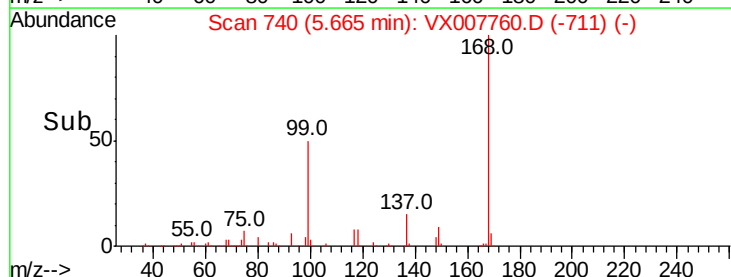
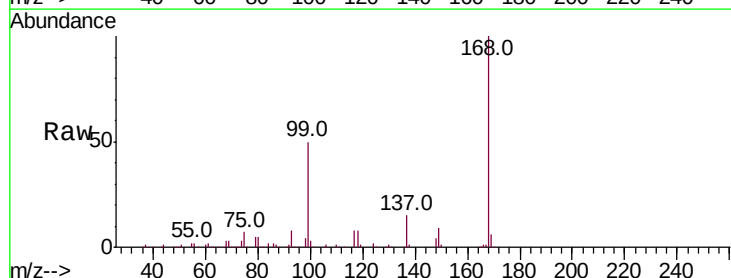
Tgt Ion: 117 Resp: 27070

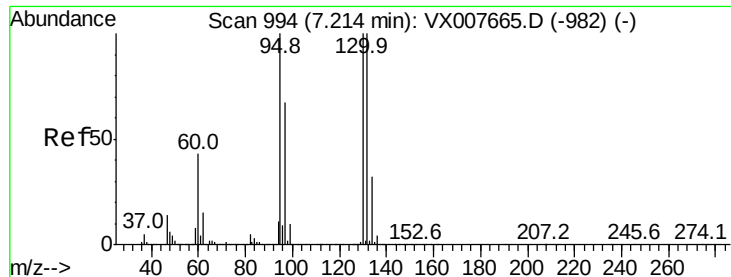
Ion Ratio Lower Upper

117 100

119 6.4 75.3 112.9#

121 0.0 25.0 37.4#





#44

Trichloroethene

Concen: 1.151 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX007760.D

Acq: 28 Feb 2019 12:25

Instrument :

MSVOA_X

ClientSampleId :

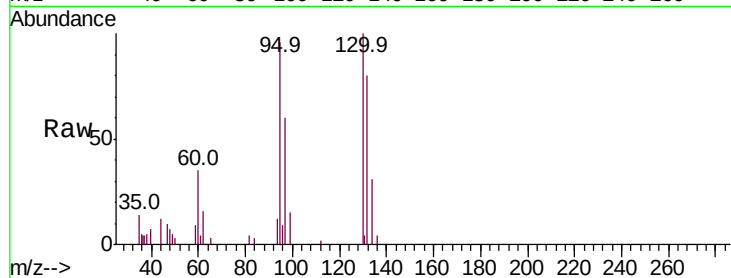
M1-T2-OZ(PRE)

Tot Ion:130 Resp: 4289

Ion Ratio Lower Upper

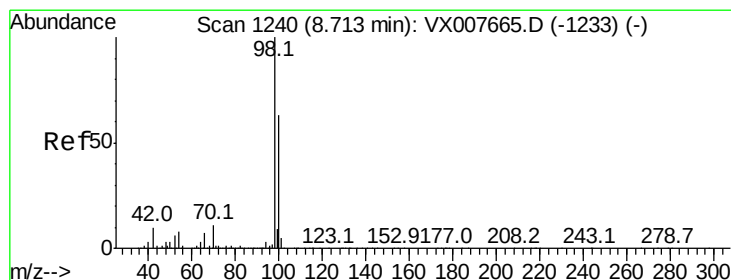
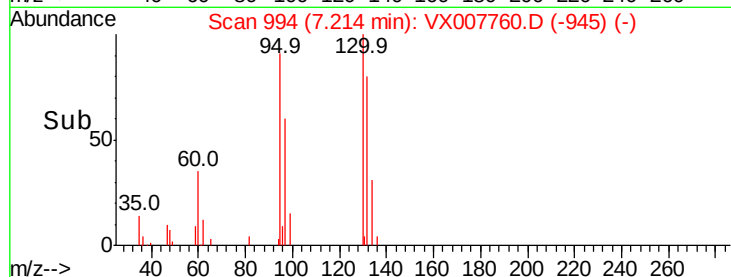
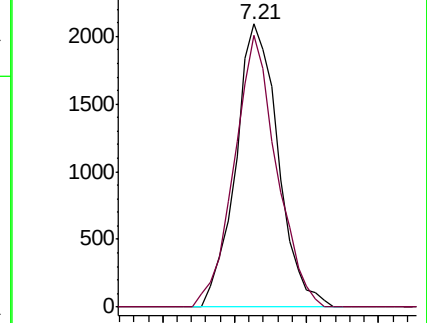
130 100

95 96.2 0.0 180.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 47.967 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007760.D

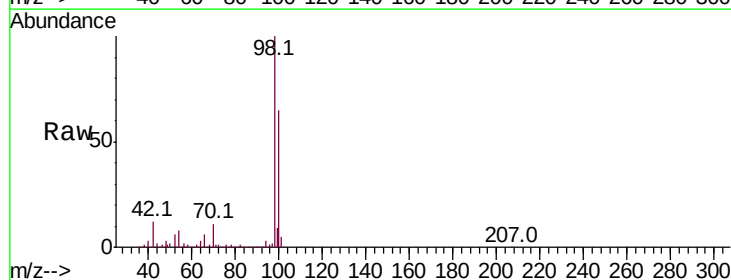
Acq: 28 Feb 2019 12:25

Tgt Ion: 98 Resp: 599130

Ion Ratio Lower Upper

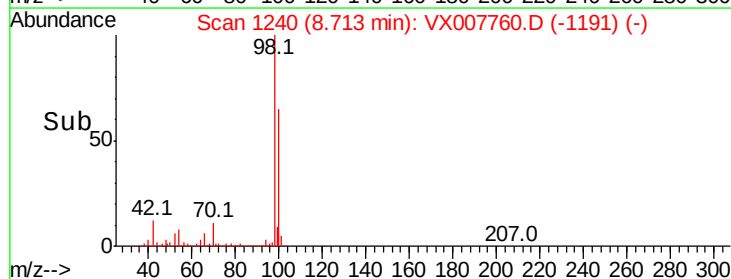
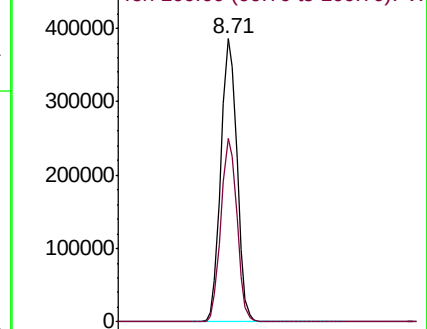
98 100

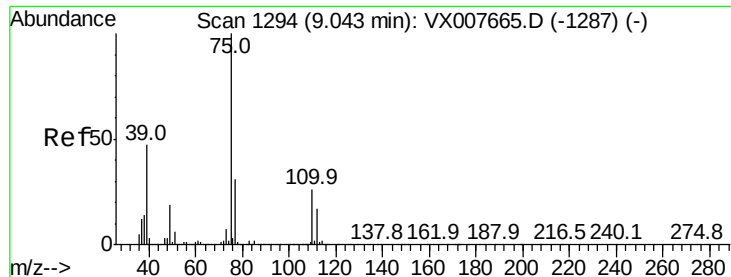
100 64.4 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#53

t-1,3-Dichloropropene

Concen: 2.808 ug/l

RT: 9.04 min Scan# 1294

Delta R.T. 0.00 min

Lab File: VX007760.D

Acq: 28 Feb 2019 12:25

Instrument :

MSVOA_X

ClientSampleId :

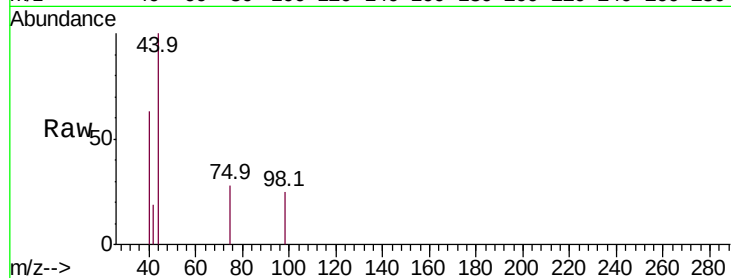
M1-T2-OZ(PRE)

Tot Ion: 75 Resp: 31

Ion Ratio Lower Upper

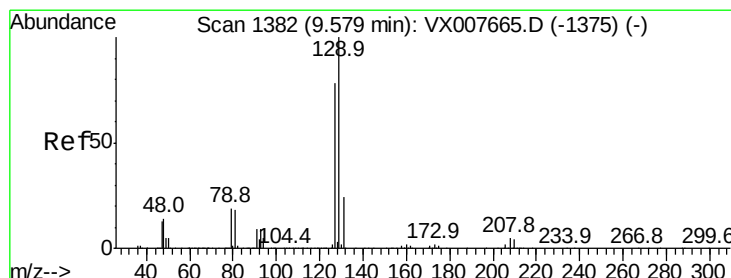
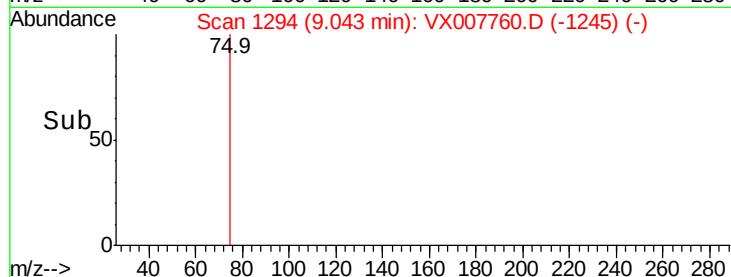
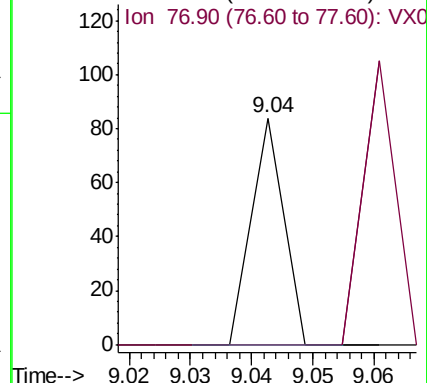
75 100

77 0.0 25.2 37.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#60

Dibromochloromethane

Concen: 1.079 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX007760.D

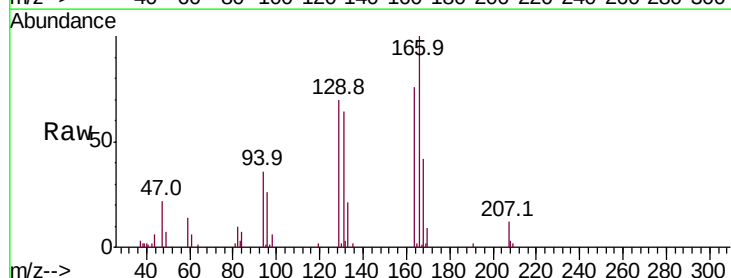
Acq: 28 Feb 2019 12:25

Tgt Ion:129 Resp: 3697

Ion Ratio Lower Upper

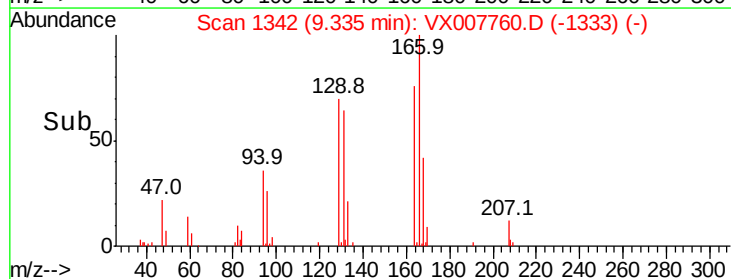
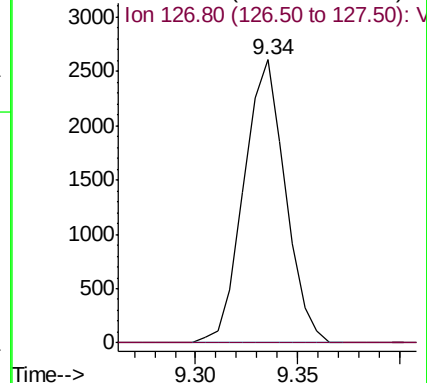
129 100

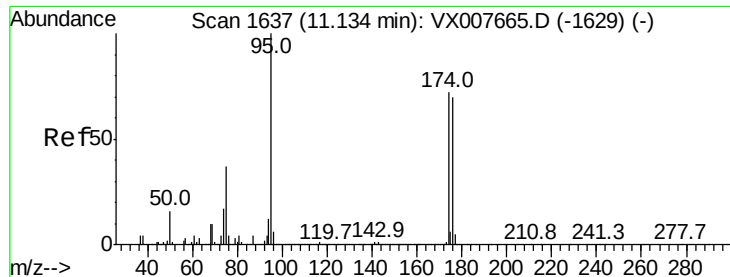
127 0.0 37.8 113.4#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

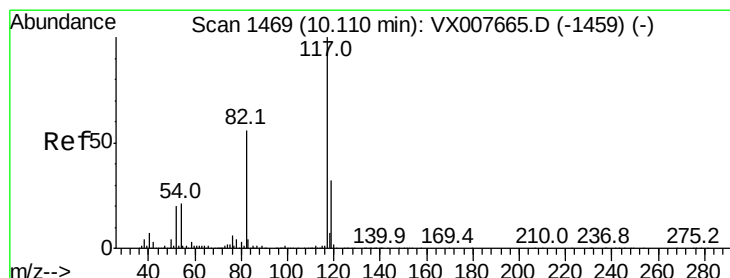
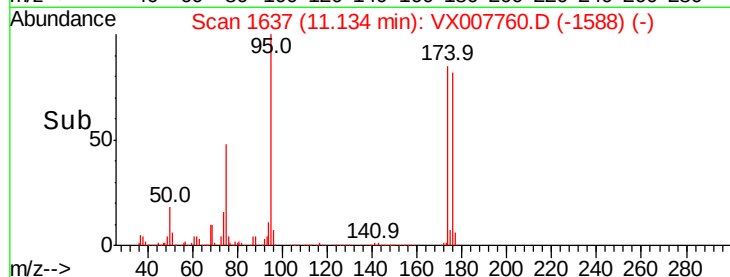
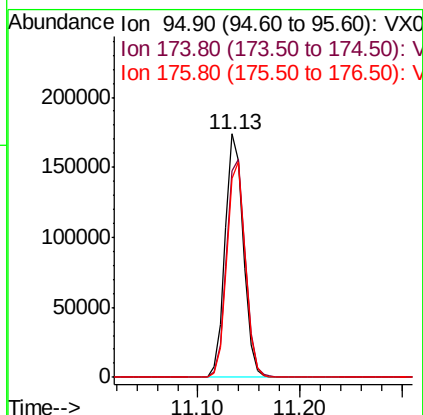
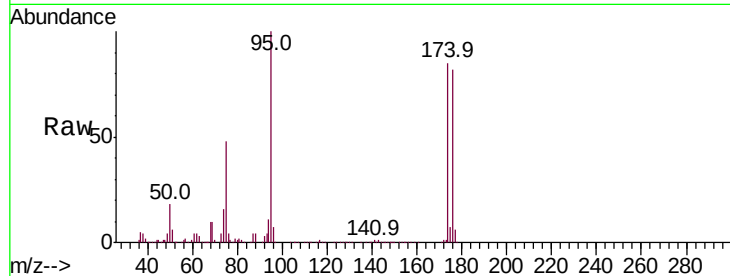




#62
4-Bromofluorobenzene
Concen: 47.203 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX007760.D
Acq: 28 Feb 2019 12:25

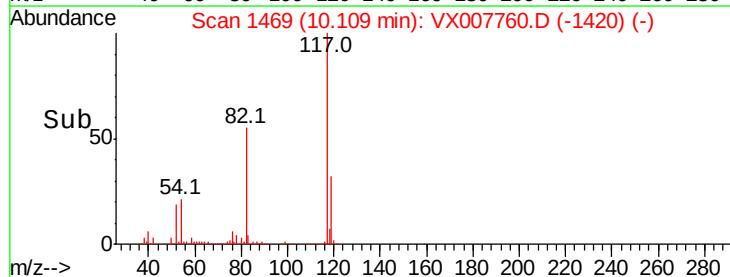
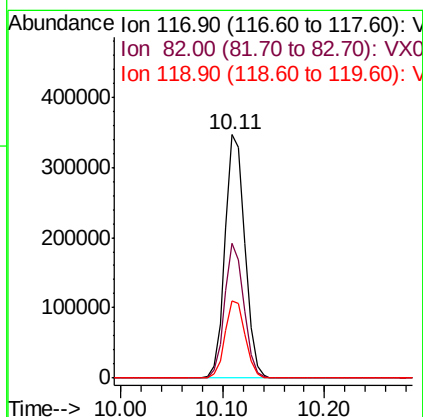
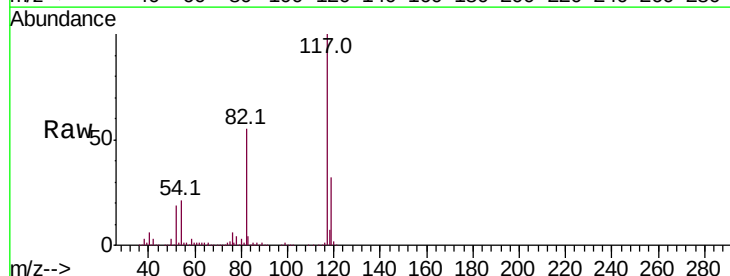
Instrument :
MSVOA_X
ClientSampleId :
M1-T2-OZ(PRE)

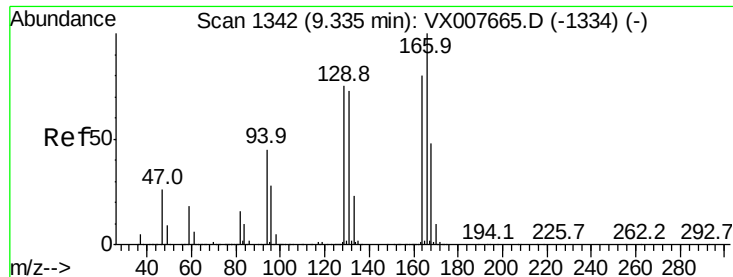
Tot Ion: 95 Resp: 216399
Ion Ratio Lower Upper
95 100
174 91.8 0.0 189.2
176 88.7 0.0 186.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX007760.D
Acq: 28 Feb 2019 12:25

Tgt Ion: 117 Resp: 465571
Ion Ratio Lower Upper
117 100
82 55.4 42.1 63.1
119 31.7 26.5 39.7





#64

Tetrachloroethene

Concen: 1.070 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX007760.D

Acq: 28 Feb 2019 12:25

Instrument :

MSVOA_X

ClientSampleId :

M1-T2-OZ(PRE)

Tot Ion:164 Resp: 4046

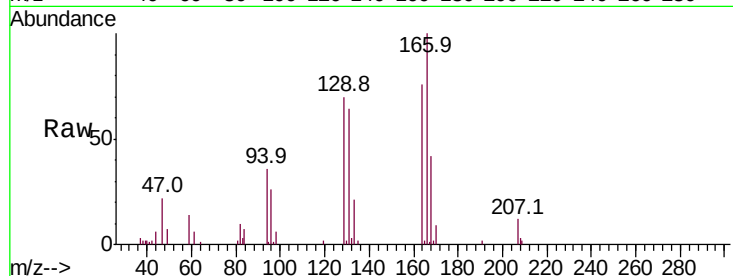
Ion Ratio Lower Upper

164 100

166 131.9 101.0 151.4

129 91.9 70.5 105.7

131 85.0 69.8 104.6

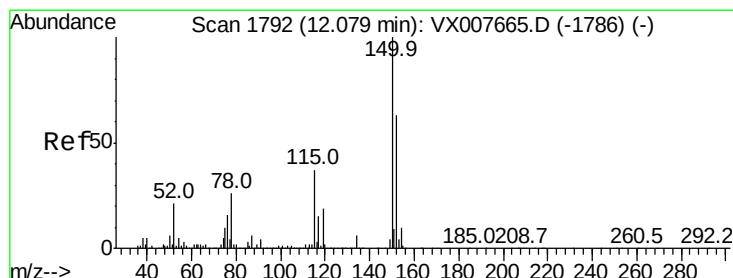
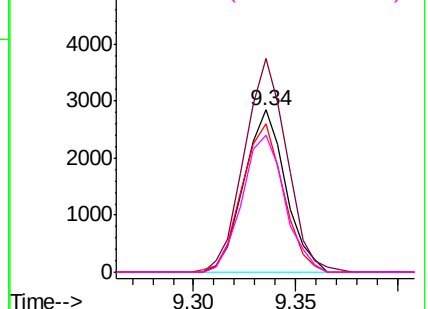
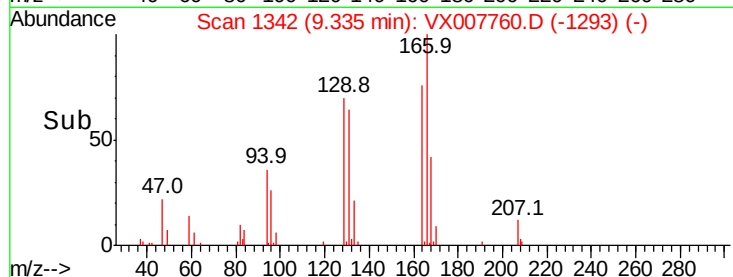


Abundance Ion 163.80 (163.50 to 164.50): V

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: VX007760.D

Acq: 28 Feb 2019 12:25

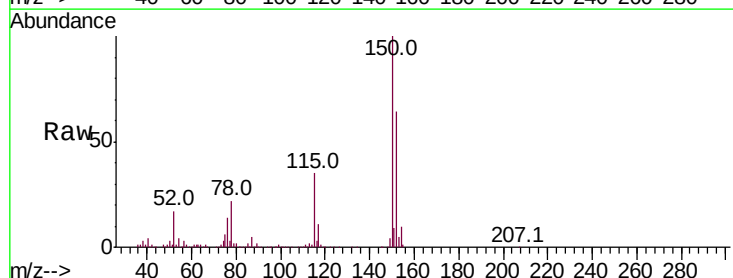
Tgt Ion:152 Resp: 221466

Ion Ratio Lower Upper

152 100

115 55.3 38.0 114.0

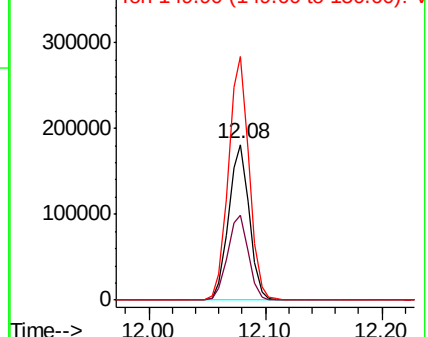
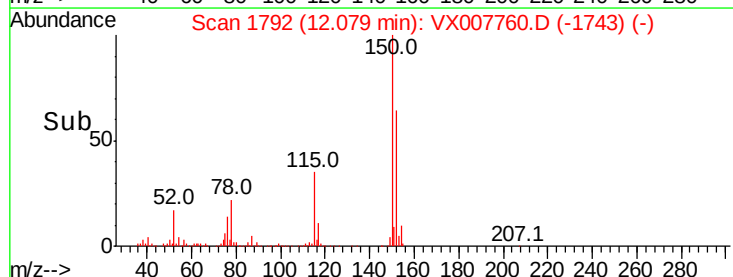
150 156.7 0.0 346.4

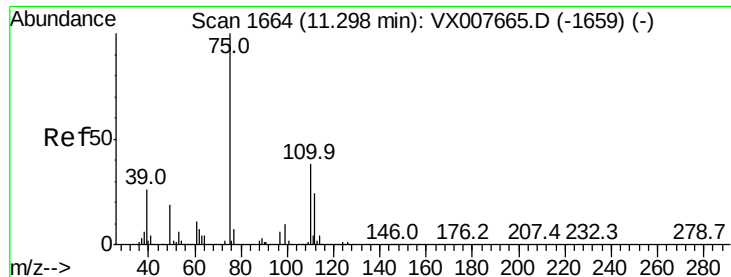


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.149 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007760.D

Acq: 28 Feb 2019 12:25

Instrument :

MSVOA_X

ClientSampleId :

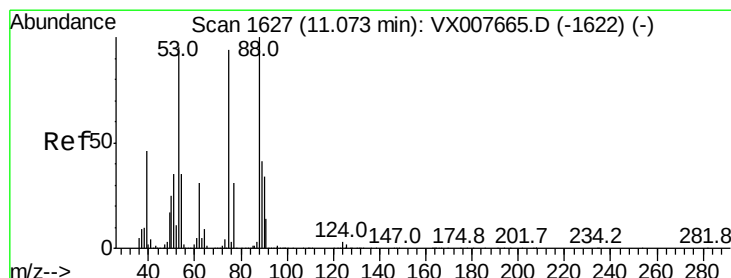
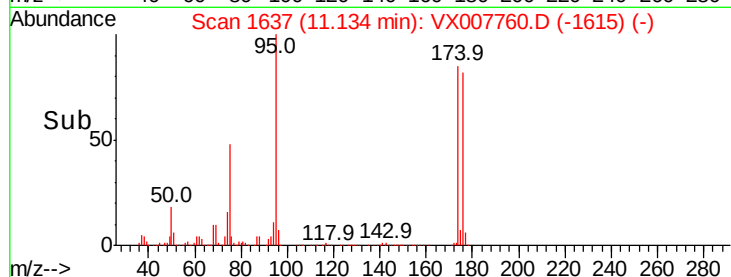
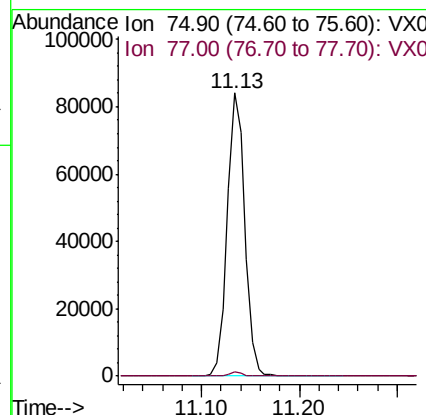
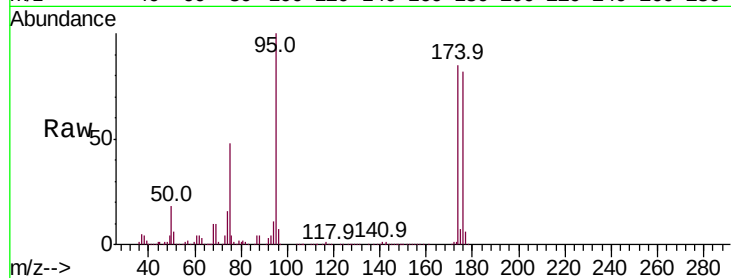
M1-T2-OZ(PRE)

Tot Ion: 75 Resp: 104559

Ion Ratio Lower Upper

75 100

77 1.2 23.0 69.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 58.791 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007760.D

Acq: 28 Feb 2019 12:25

Tgt Ion: 75 Resp: 104559

Ion Ratio Lower Upper

75 100

53 0.1 81.0 121.6#

89 0.0 41.4 62.0#

