

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006667.D
 Acq On : 20 Dec 2018 11:21
 Operator : JC/MD
 Sample : J6492-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 21 03:28:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	651061	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1023181	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	943087	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	447227	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	354557	50.53	ug/l	0.00
Spiked Amount			Recovery	=	101.06%	
35) Dibromofluoromethane	5.50	113	311545	48.15	ug/l	0.00
Spiked Amount			Recovery	=	96.30%	
50) Toluene-d8	8.71	98	1213381	49.74	ug/l	0.00
Spiked Amount			Recovery	=	99.48%	
62) 4-Bromofluorobenzene	11.13	95	437794	49.00	ug/l	0.00
Spiked Amount			Recovery	=	98.00%	

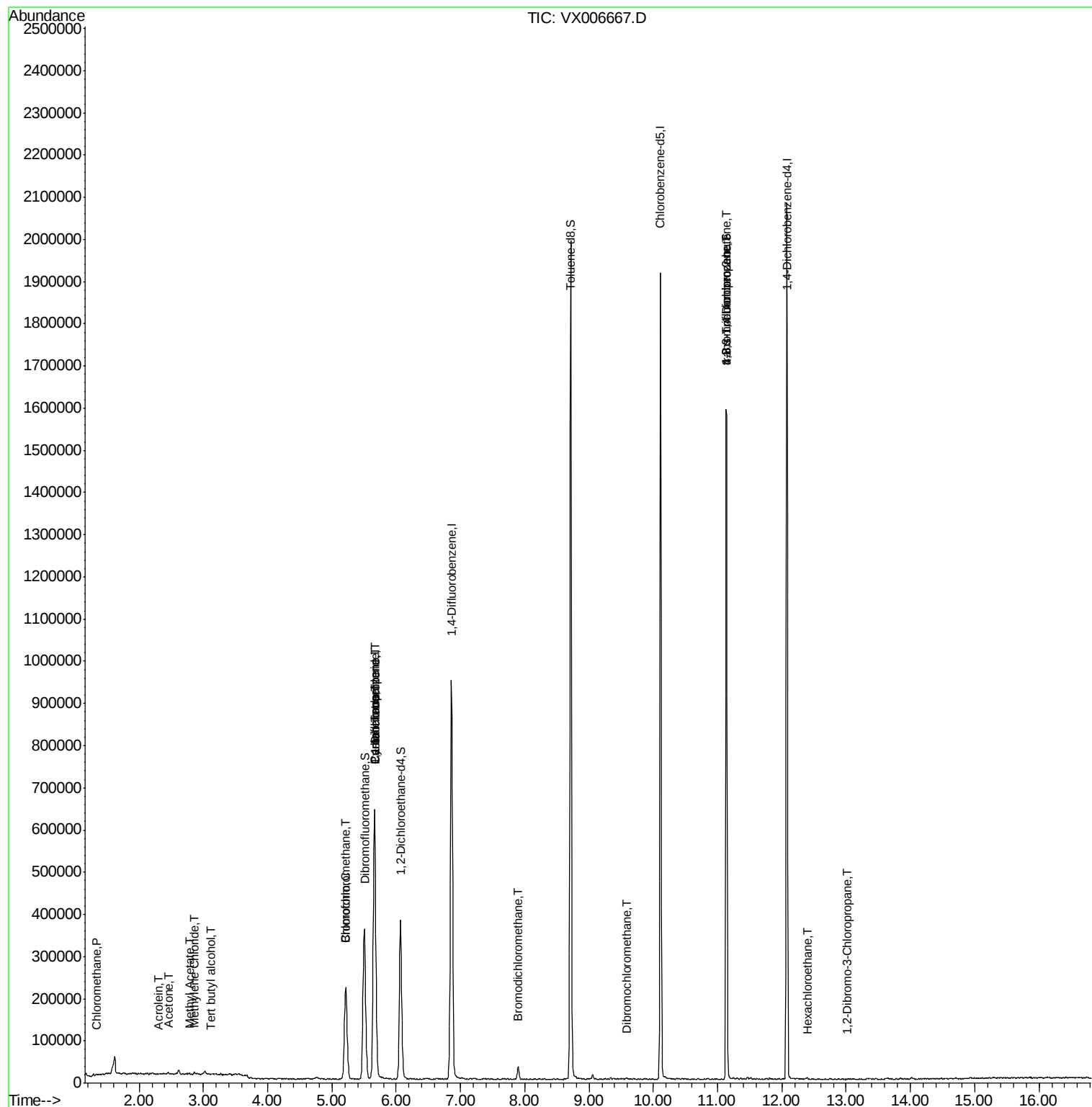
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1481	0.231	ug/l #	55
5) Bromomethane	1.65	94	328	Below Cal		94
11) Tert butyl alcohol	3.13	59	344	0.220	ug/l #	9
13) Acrolein	2.29	56	485	0.459	ug/l #	13
16) Acetone	2.45	43	3599	1.116	ug/l #	86
18) Methyl Acetate	2.78	43	1930	0.204	ug/l #	89
20) Methylene Chloride	2.86	84	2386	0.358	ug/l #	78
28) Bromochloromethane	5.21	49	20323	2.757	ug/l #	4
30) Chloroform	5.21	83	264730	23.907	ug/l	97
31) Cyclohexane	5.66	56	11201	1.153	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	44577	5.260	ug/l #	50
38) Carbon Tetrachloride	5.66	117	61107	7.420	ug/l #	14
47) Bromodichloromethane	7.90	83	19216	2.510	ug/l	92
49) 1,4-Dioxane	7.76	88	80	Below Cal	#	27
60) Dibromochloromethane	9.59	129	839	2.436	ug/l	100
76) 1,2,3-Trichloropropane	11.13	75	201664	24.264	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	201664	71.823	ug/l #	10
90) Hexachloroethane	12.41	117	22	3.298	ug/l	80
92) 1,2-Dibromo-3-Chloropropan	13.01	75	379	0.201	ug/l #	22

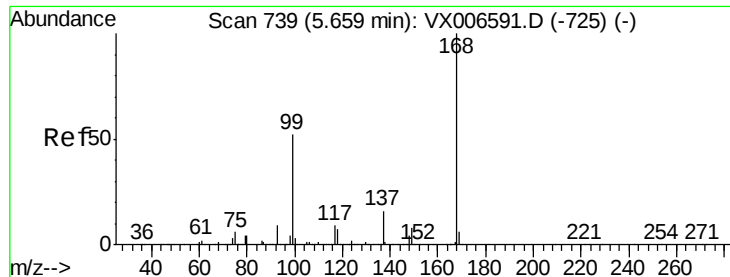
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006667.D

Acq: 20 Dec 2018 11:21

Instrument :

MSVOA_X

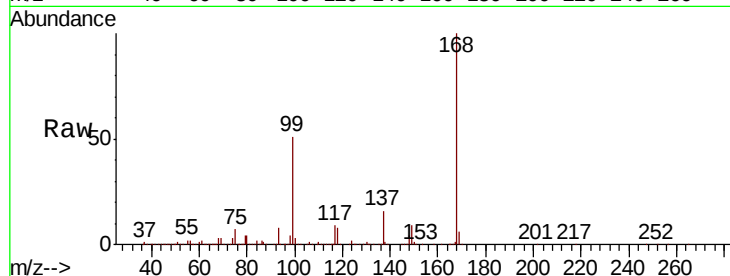
ClientSampleId :

Tot Ion:168 Resp: 651061

Ion Ratio Lower Upper

168 100

99 51.3 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

Time-->

5.67

250000

200000

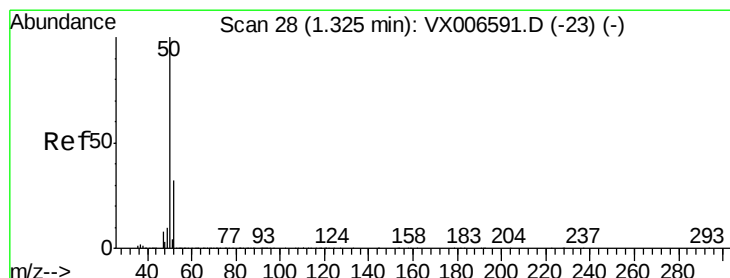
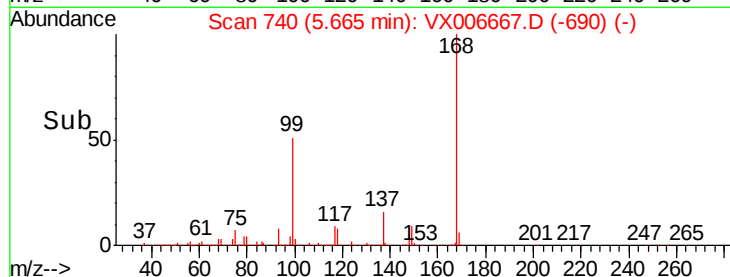
150000

100000

50000

0

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.231 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX006667.D

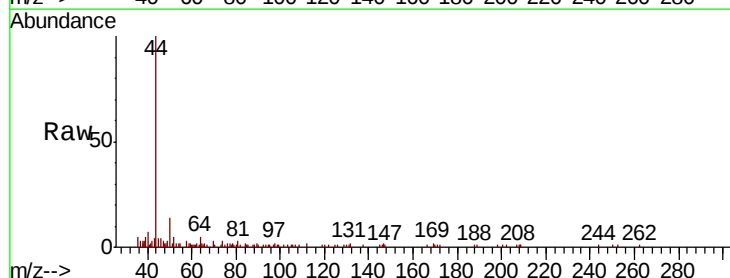
Acq: 20 Dec 2018 11:21

Tgt Ion: 50 Resp: 1481

Ion Ratio Lower Upper

50 100

52 6.8 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

Time-->

1.33

1200

1000

800

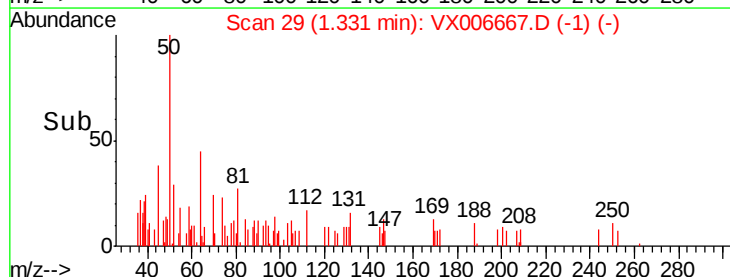
600

400

200

0

1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006667.D

Acq: 20 Dec 2018 11:21

Instrument :

MSVOA_X

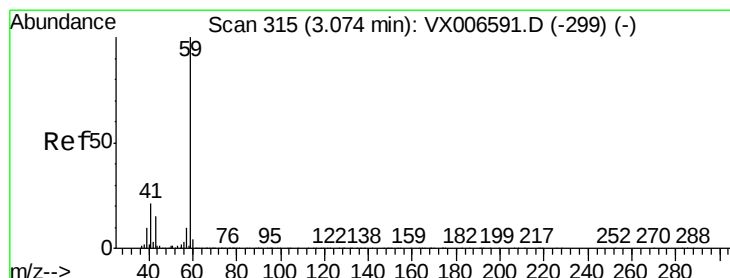
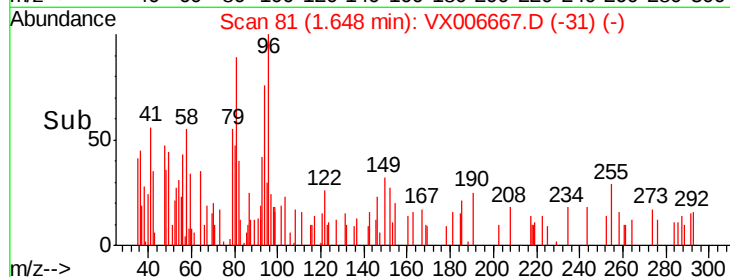
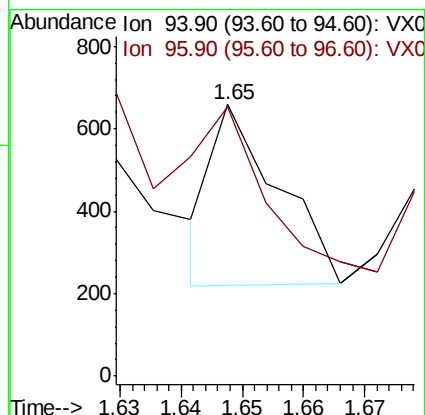
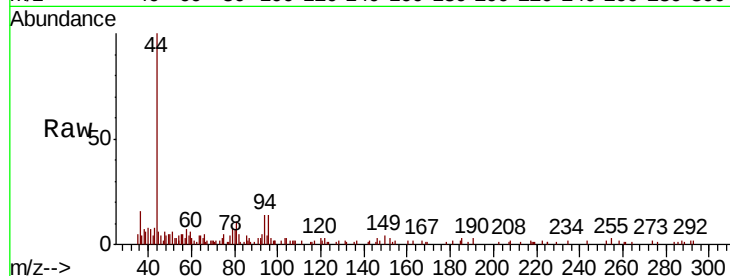
ClientSampleId :

Tot Ion: 94 Resp: 328

Ion Ratio Lower Upper

94 100

96 86.2 73.4 110.2



#11

Tert butyl alcohol

Concen: 0.220 ug/l

RT: 3.13 min Scan# 324

Delta R.T. 0.05 min

Lab File: VX006667.D

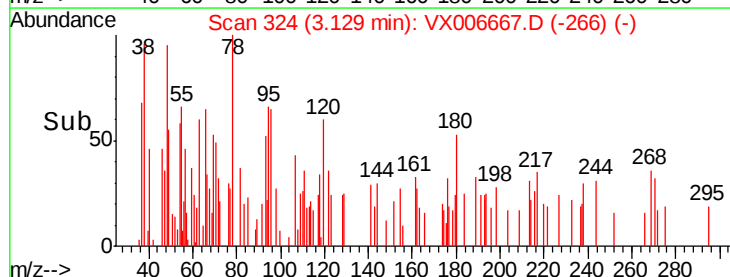
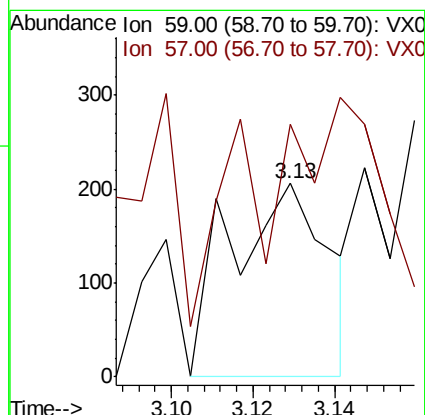
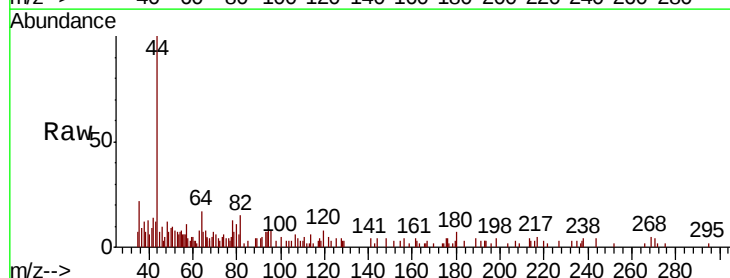
Acq: 20 Dec 2018 11:21

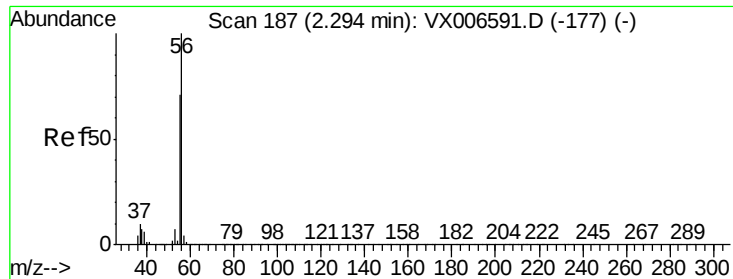
Tgt Ion: 59 Resp: 344

Ion Ratio Lower Upper

59 100

57 44.8 8.5 12.7#

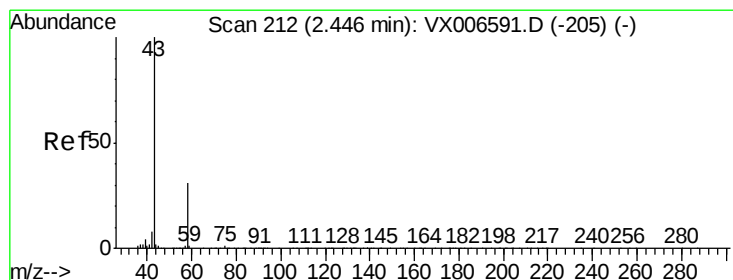
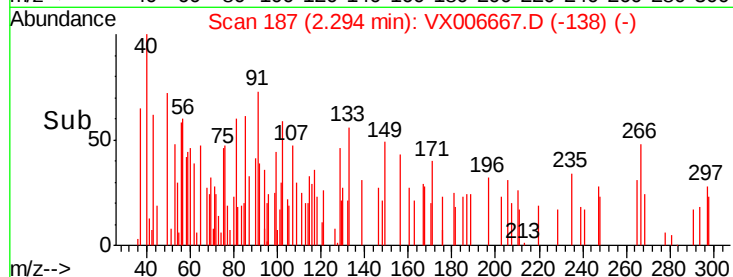
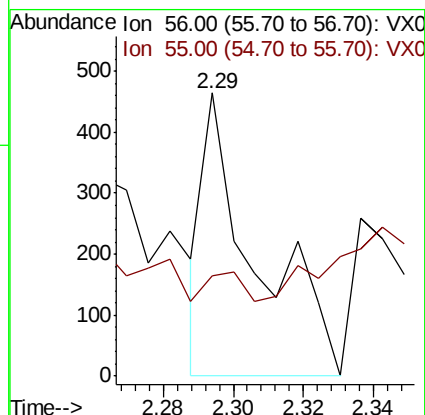
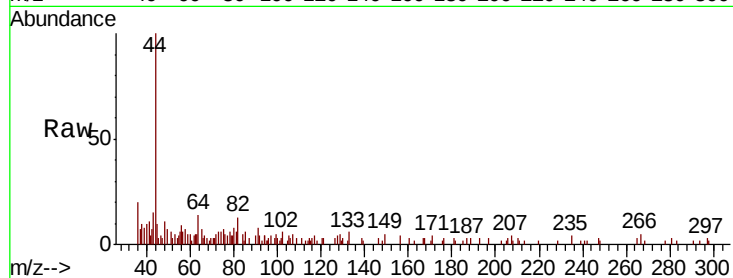




#13
Acrolein
Concen: 0.459 ug/l
RT: 2.29 min Scan# 187
Delta R.T. 0.00 min
Lab File: VX006667.D
Acq: 20 Dec 2018 11:21

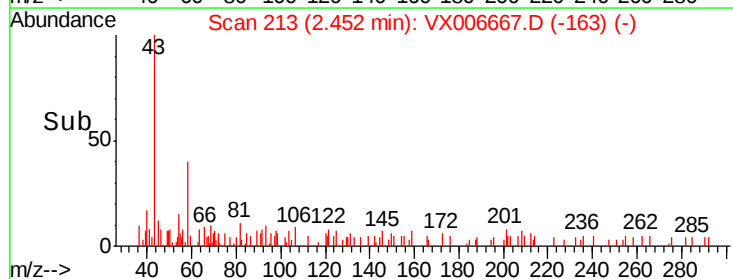
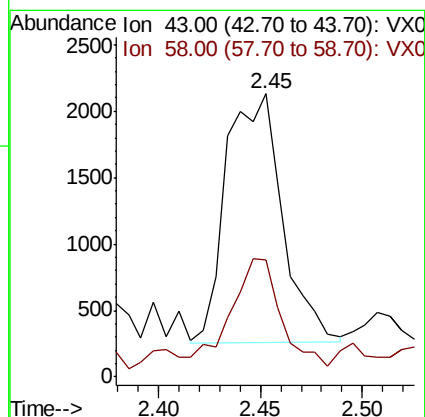
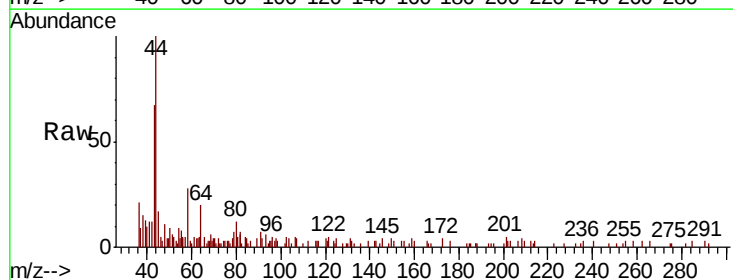
Instrument :
MSVOA_X
ClientSampled :

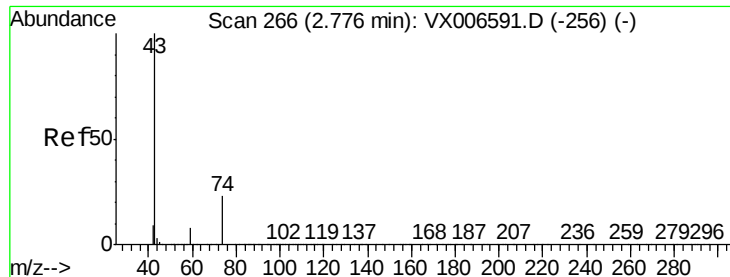
Tot Ion: 56 Resp: 485
Ion Ratio Lower Upper
56 100
55 0.0 58.2 87.4#



#16
Acetone
Concen: 1.116 ug/l
RT: 2.45 min Scan# 213
Delta R.T. 0.01 min
Lab File: VX006667.D
Acq: 20 Dec 2018 11:21

Tgt Ion: 43 Resp: 3599
Ion Ratio Lower Upper
43 100
58 39.2 25.0 37.6#

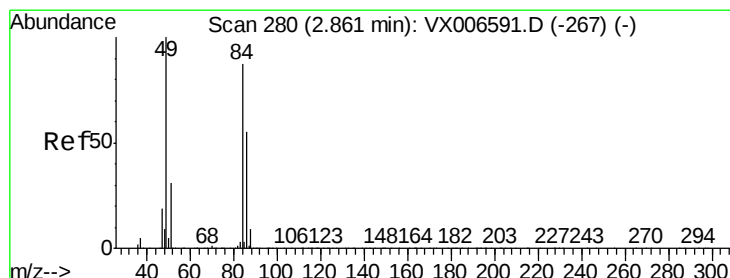
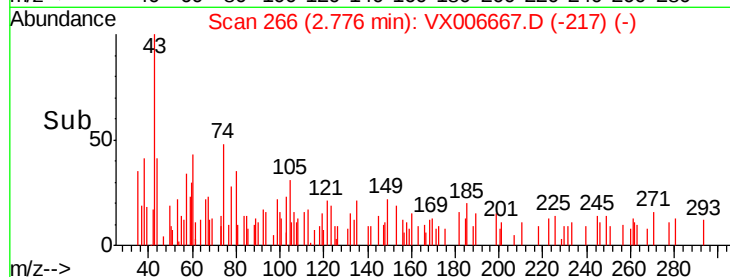
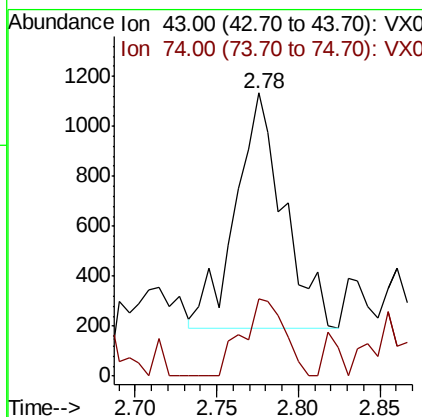
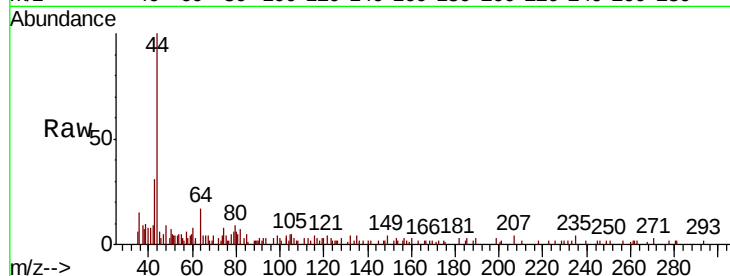




#18
Methyl Acetate
Concen: 0.204 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX006667.D
Acq: 20 Dec 2018 11:21

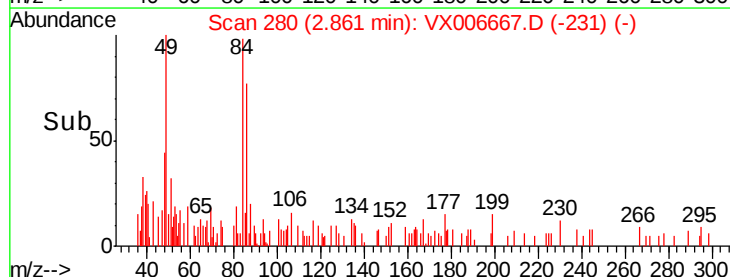
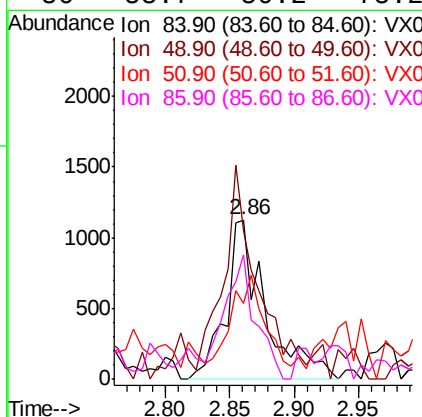
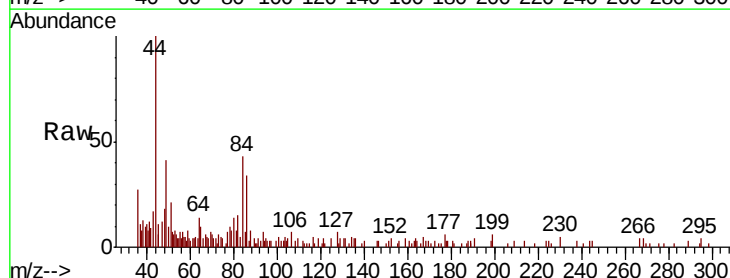
Instrument :
MSVOA_X
ClientSampleId :

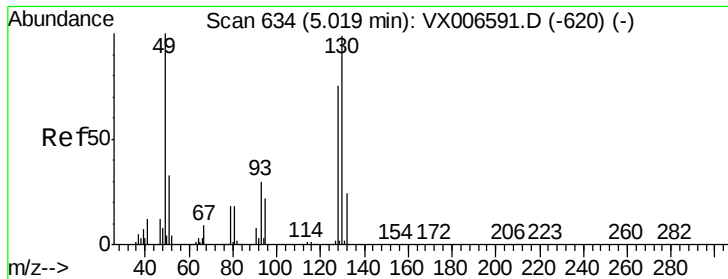
Tot Ion: 43 Resp: 1930
Ion Ratio Lower Upper
43 100
74 28.8 18.6 28.0#



#20
Methylene Chloride
Concen: 0.358 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006667.D
Acq: 20 Dec 2018 11:21

Tgt Ion: 84 Resp: 2386
Ion Ratio Lower Upper
84 100
49 80.9 91.8 137.6#
51 23.9 28.5 42.7#
86 58.7 50.2 75.2





#28

Bromochloromethane

Concen: 2.757 ug/l

RT: 5.21 min Scan# 666

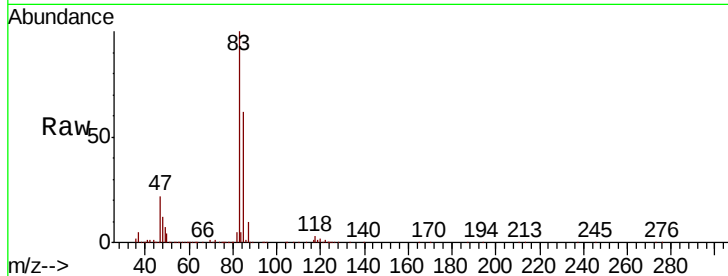
Delta R.T. 0.20 min

Lab File: VX006667.D

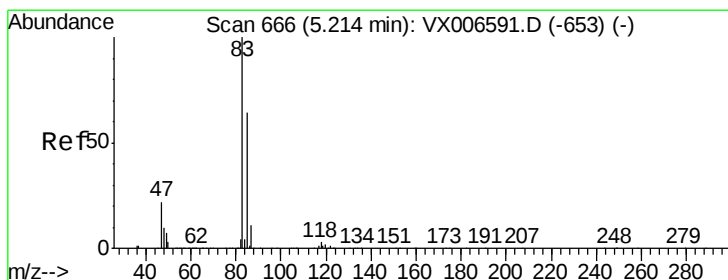
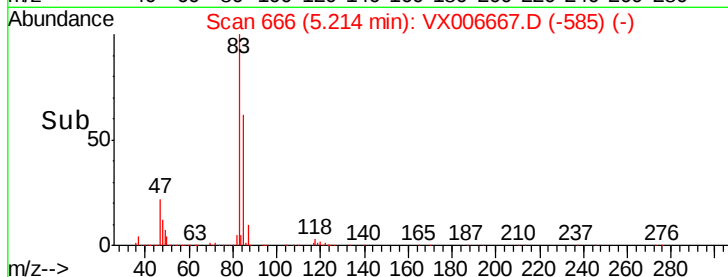
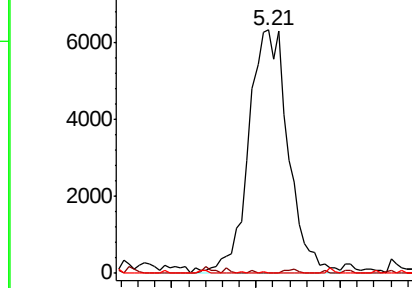
Acq: 20 Dec 2018 11:21

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 20323
Ion Ratio Lower Upper
49 100
129 0.2 0.0 5.4
130 0.1 77.7 116.5#



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



#30

Chloroform

Concen: 23.907 ug/l

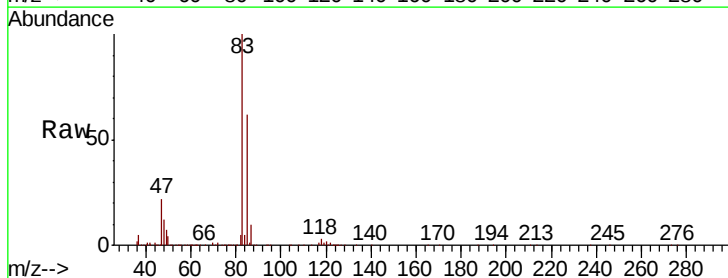
RT: 5.21 min Scan# 666

Delta R.T. 0.00 min

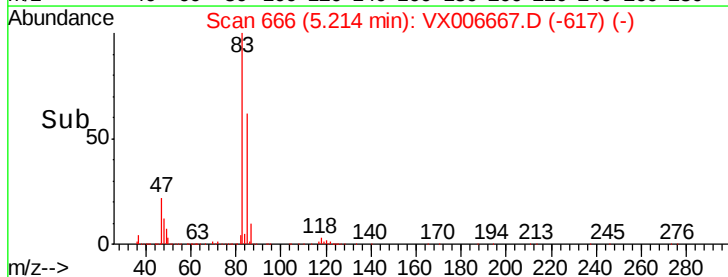
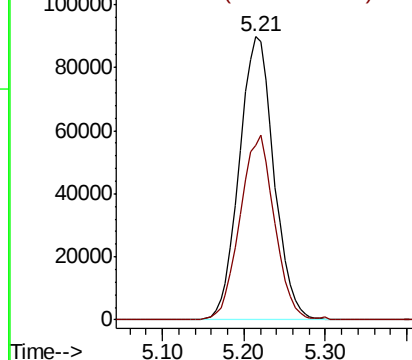
Lab File: VX006667.D

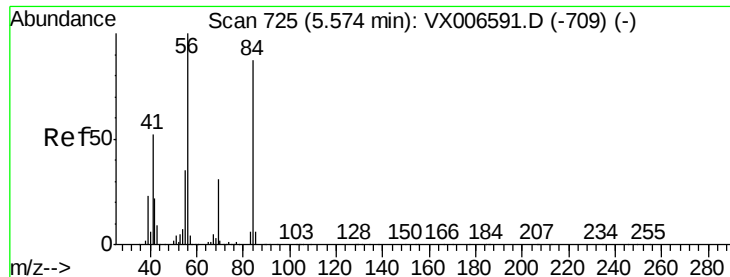
Acq: 20 Dec 2018 11:21

Tgt Ion: 83 Resp: 264730
Ion Ratio Lower Upper
83 100
85 61.7 51.2 76.8



Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 84.90 (84.60 to 85.60): VX0

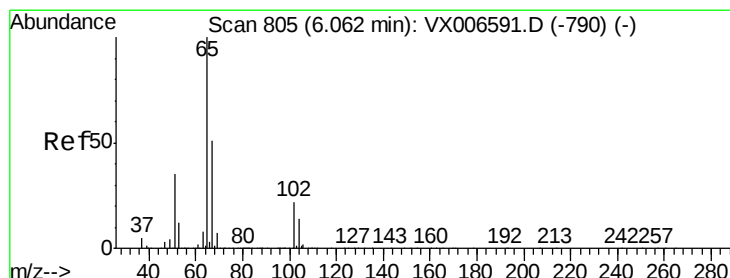
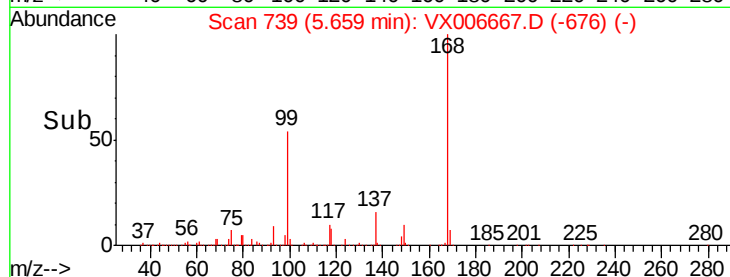
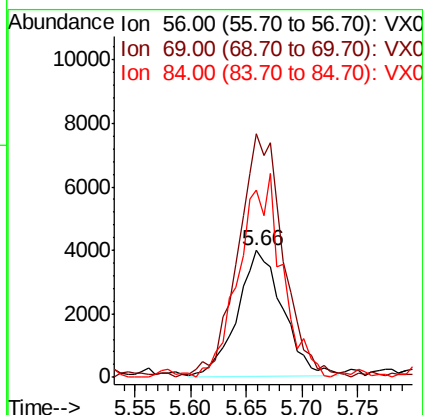
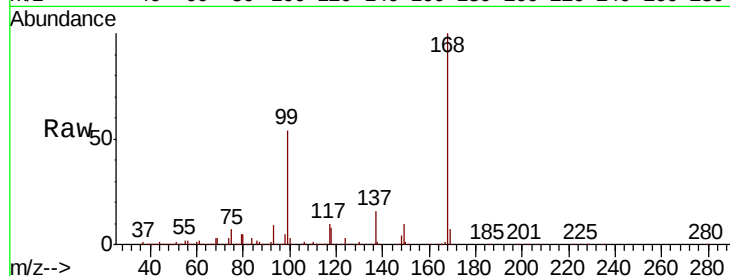




#31
Cyclohexane
Concen: 1.153 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX006667.D
Acq: 20 Dec 2018 11:21

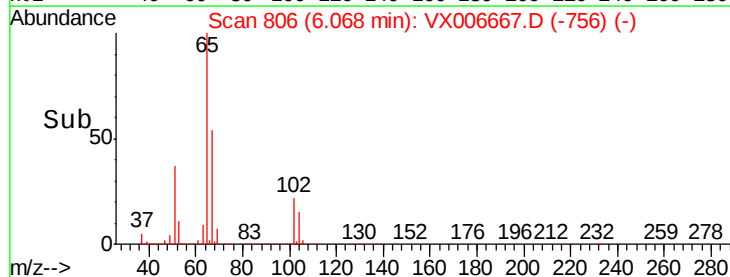
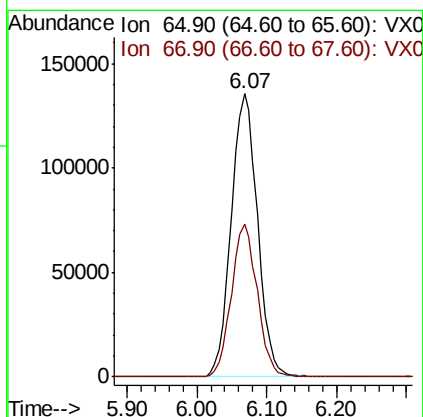
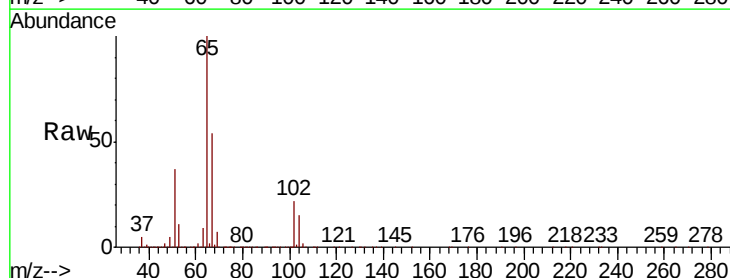
Instrument :
MSVOA_X
ClientSampled :

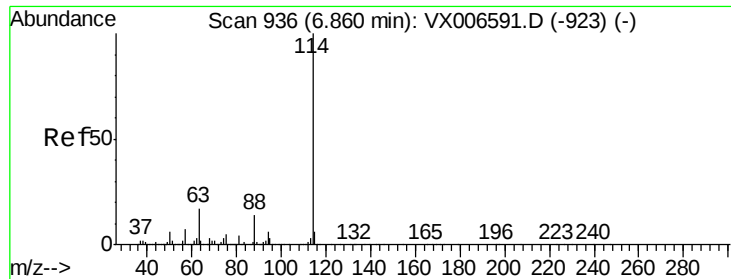
Tot Ion: 56 Resp: 11201
Ion Ratio Lower Upper
56 100
69 192.9 24.4 36.6#
84 146.3 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 50.529 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX006667.D
Acq: 20 Dec 2018 11:21

Tgt Ion: 65 Resp: 354557
Ion Ratio Lower Upper
65 100
67 52.9 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006667.D

Acq: 20 Dec 2018 11:21

Instrument :

MSVOA_X

ClientSampled :

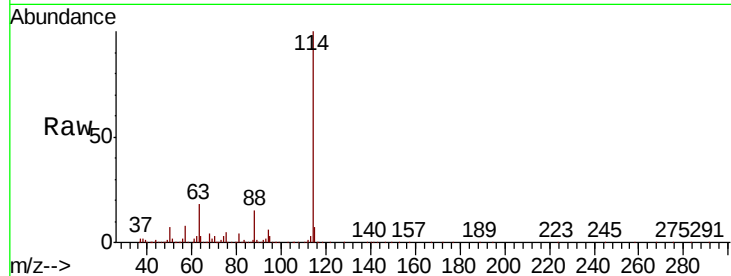
Tot Ion:114 Resp: 1023181

Ion Ratio Lower Upper

114 100

63 17.9 0.0 34.8

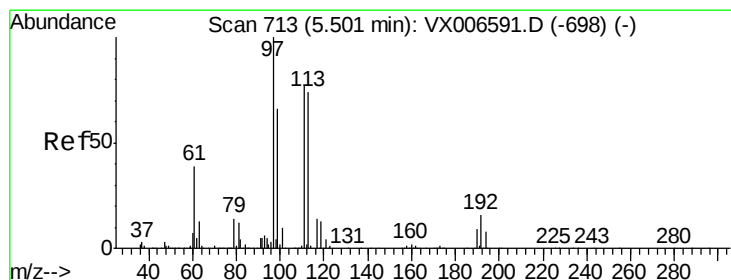
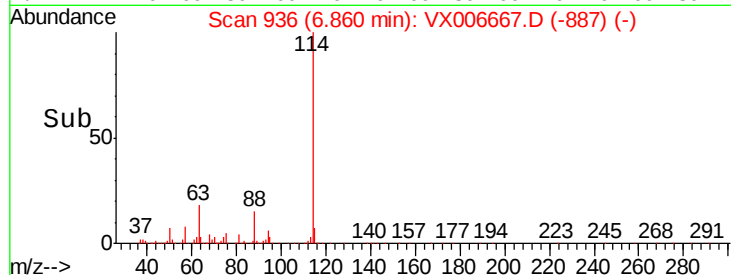
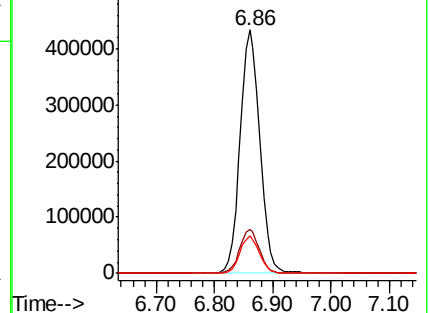
88 15.4 0.0 28.8



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: 48.149 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006667.D

Acq: 20 Dec 2018 11:21

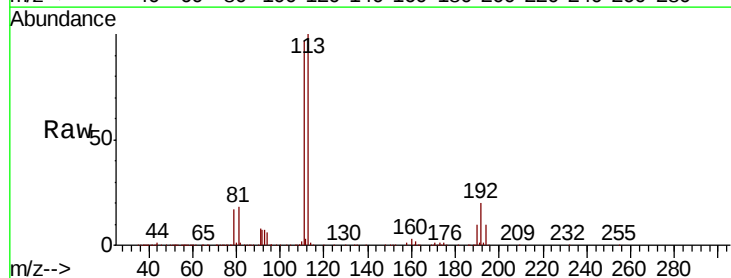
Tgt Ion:113 Resp: 311545

Ion Ratio Lower Upper

113 100

111 101.7 81.6 122.4

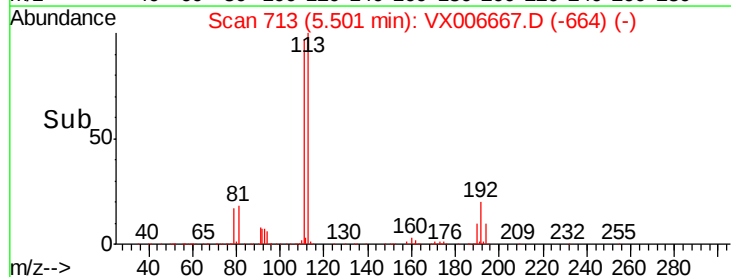
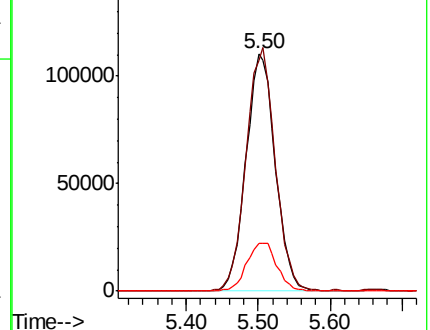
192 20.8 16.7 25.1

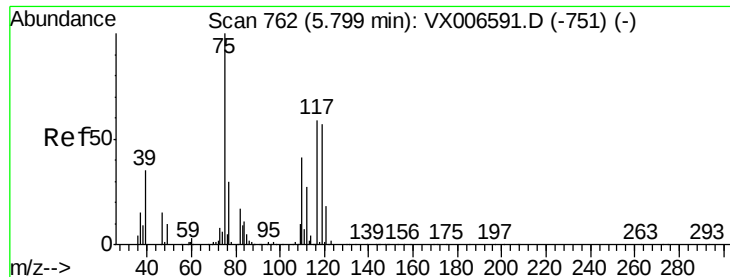


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.260 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006667.D

Acq: 20 Dec 2018 11:21

Instrument :

MSVOA_X

ClientSampleId :

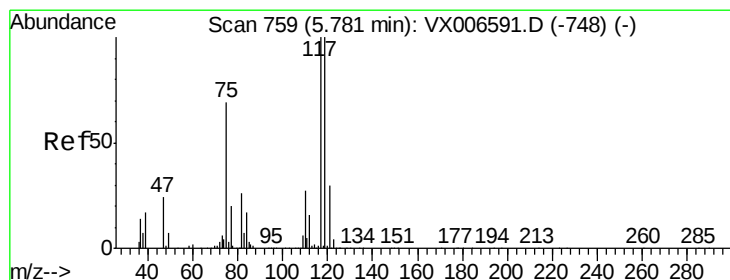
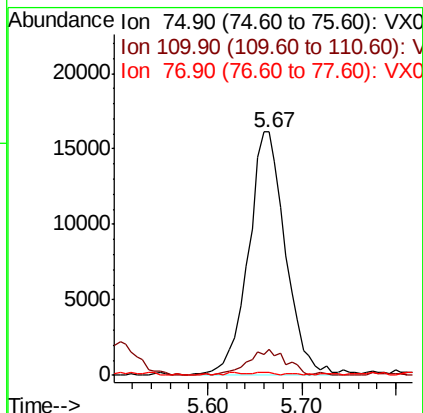
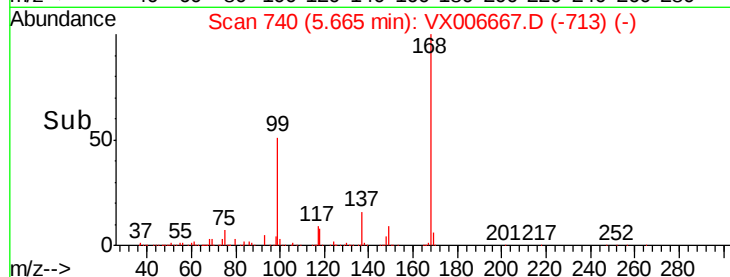
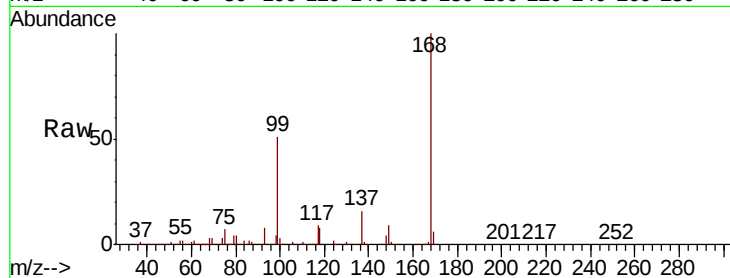
Tot Ion: 75 Resp: 44577

Ion Ratio Lower Upper

75 100

110 11.2 20.2 60.5#

77 0.7 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 7.420 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006667.D

Acq: 20 Dec 2018 11:21

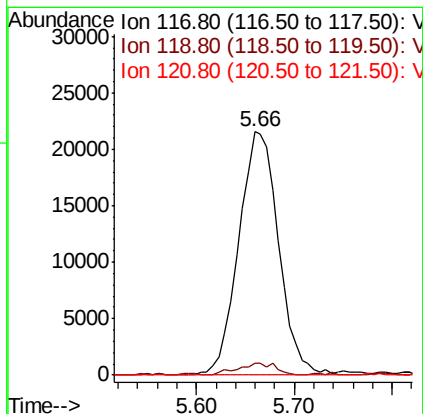
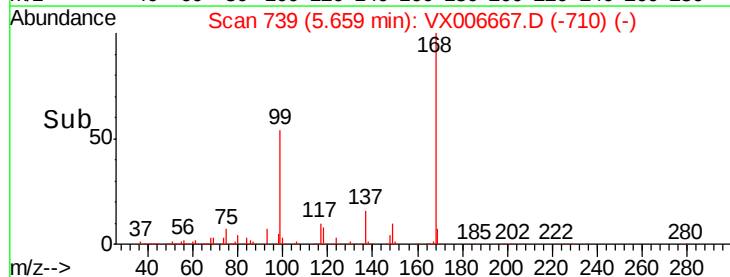
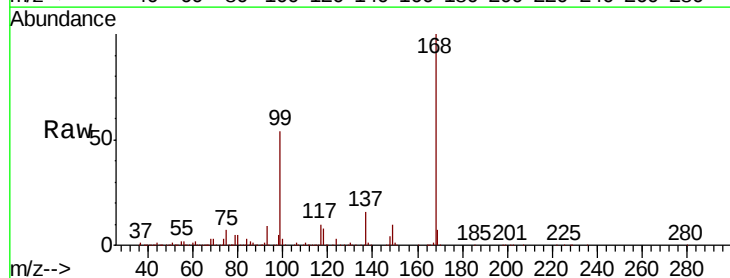
Tgt Ion: 117 Resp: 61107

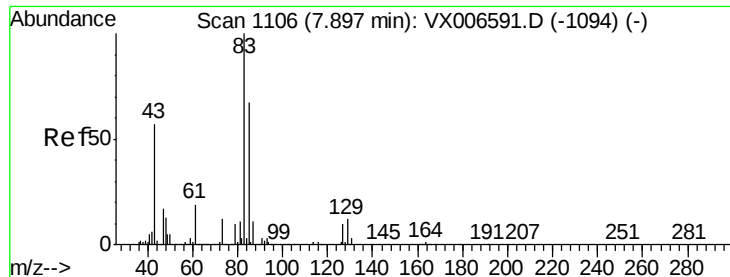
Ion Ratio Lower Upper

117 100

119 4.9 79.4 119.2#

121 0.0 24.0 36.0#





#47

Bromodichloromethane

Concen: 2.510 ug/l

RT: 7.90 min Scan# 1106

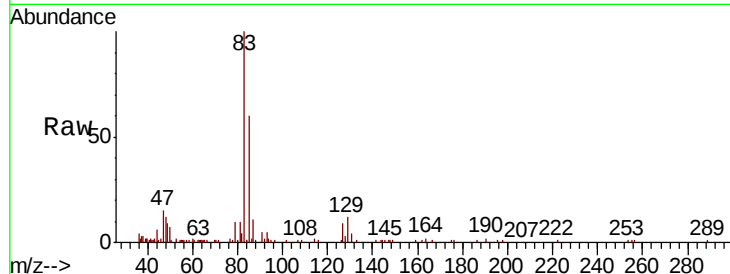
Delta R.T. 0.00 min

Lab File: VX006667.D

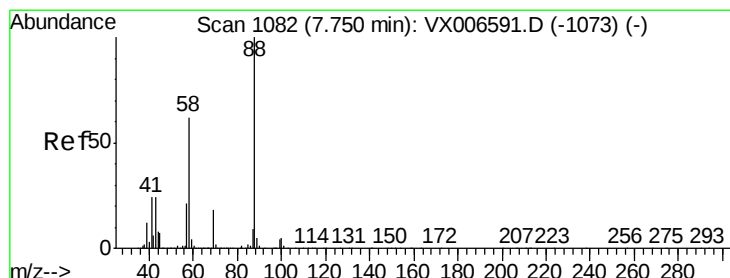
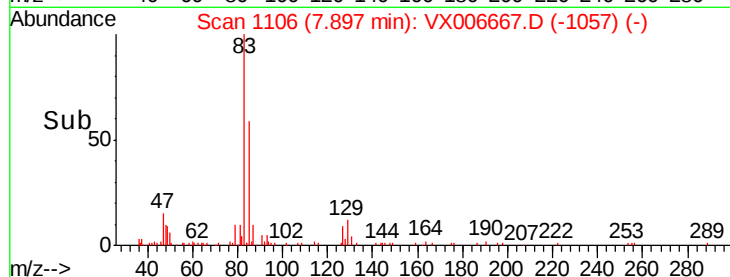
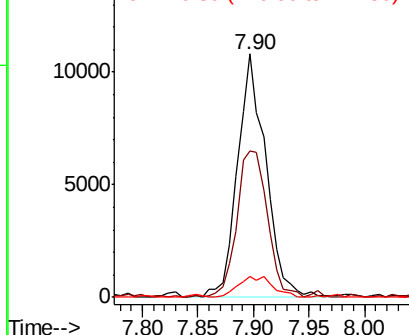
Acq: 20 Dec 2018 11:21

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	83	Resp:	19216
Ion	Ratio	Lower	Upper
83	100		
85	60.1	53.2	79.8
127	8.1	7.8	11.6



Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 84.90 (84.60 to 85.60): VX0
Ion 126.80 (126.50 to 127.50): V



#49

1,4-Dioxane

Concen: Below Cal

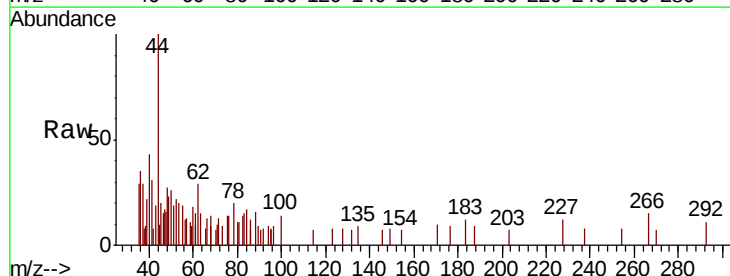
RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

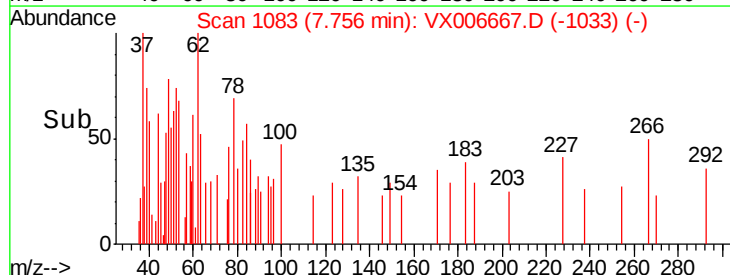
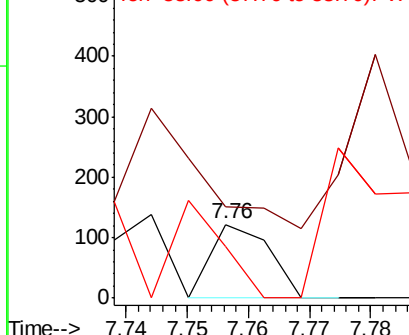
Lab File: VX006667.D

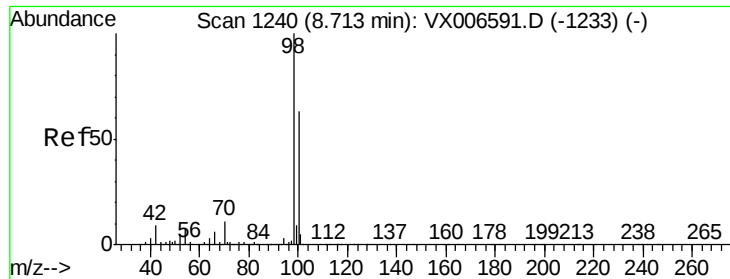
Acq: 20 Dec 2018 11:21

Tgt Ion:	88	Resp:	80
Ion	Ratio	Lower	Upper
88	100		
43	0.0	22.2	33.4#
58	0.0	51.0	76.4#



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





#50

Toluene-d8

Concen: 49.742 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006667.D

Acq: 20 Dec 2018 11:21

Instrument :

MSVOA_X

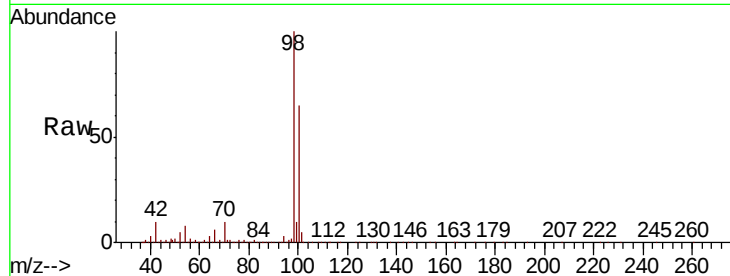
ClientSampleId :

Tot Ion: 98 Resp: 1213381

Ion Ratio Lower Upper

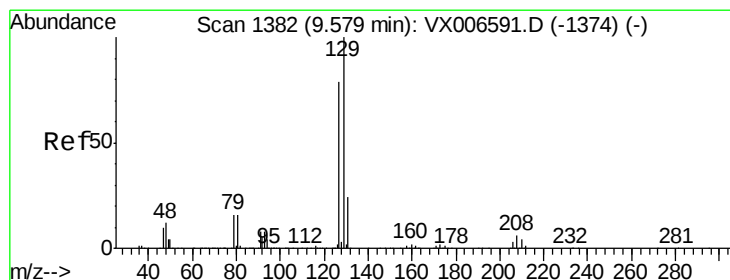
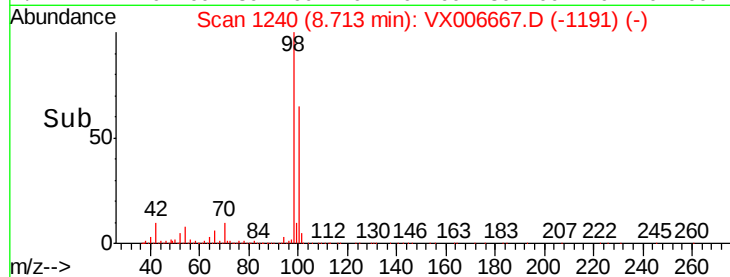
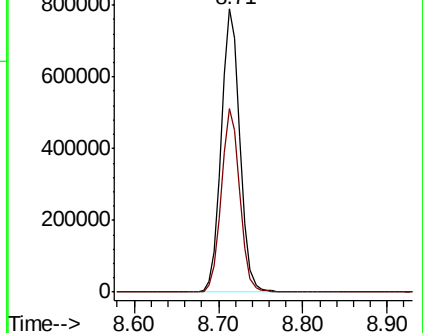
98 100

100 64.0 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#60

Dibromochloromethane

Concen: 2.436 ug/l

RT: 9.59 min Scan# 1383

Delta R.T. 0.01 min

Lab File: VX006667.D

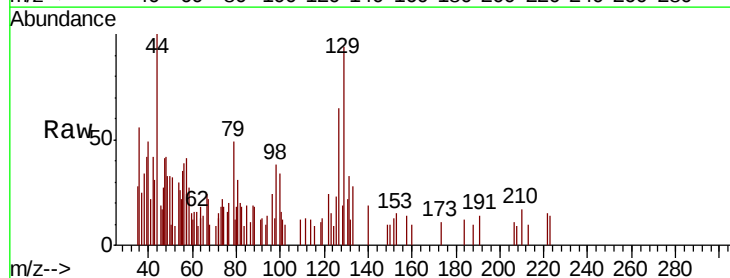
Acq: 20 Dec 2018 11:21

Tgt Ion:129 Resp: 839

Ion Ratio Lower Upper

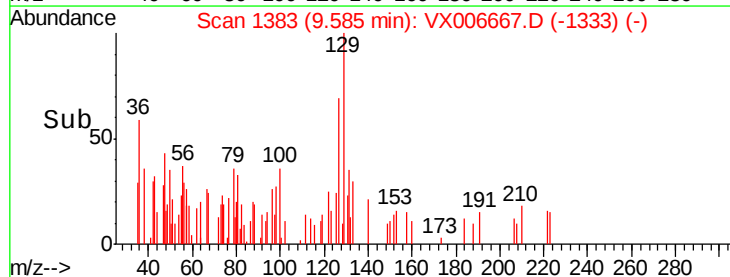
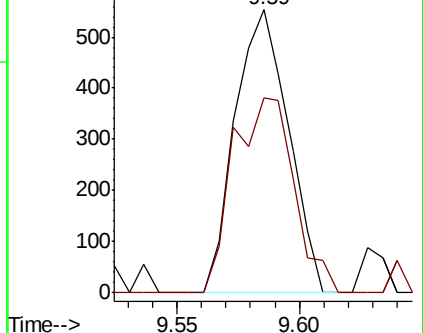
129 100

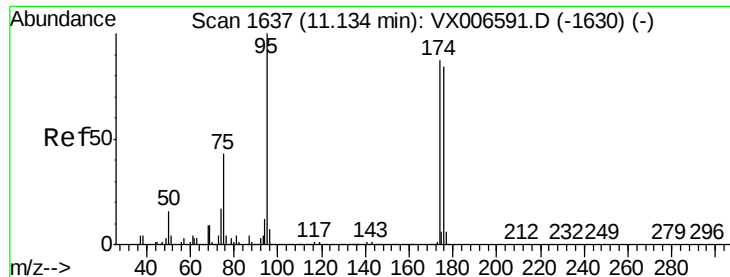
127 78.8 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

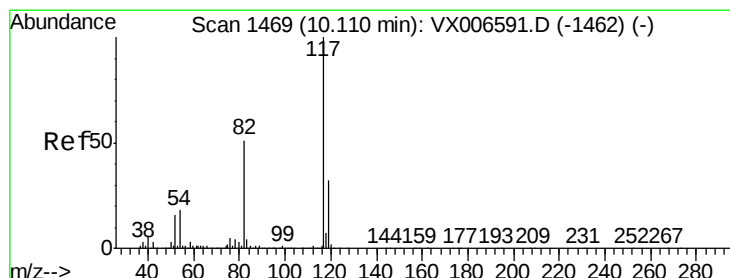
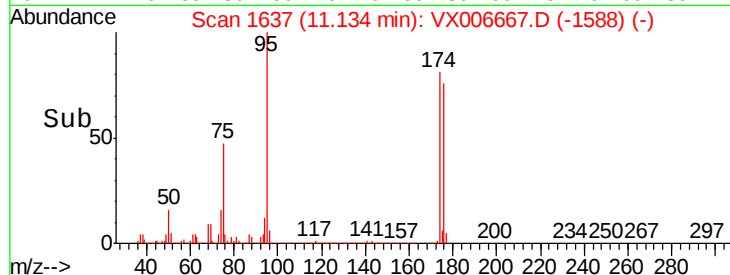
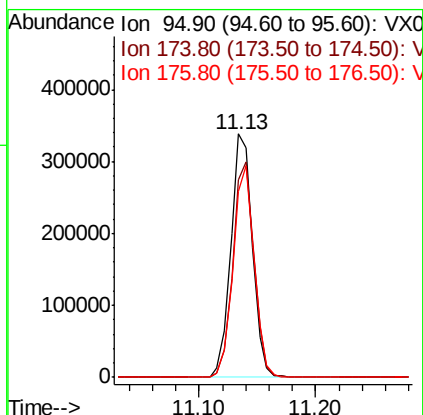
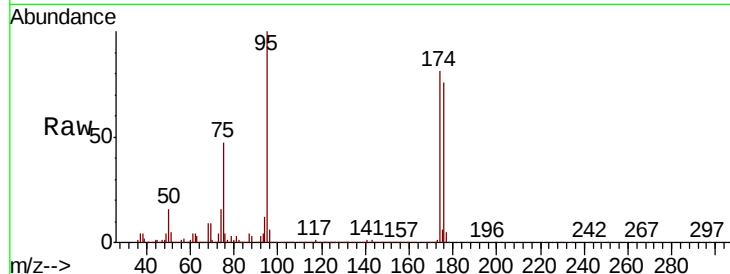




#62
4-Bromofluorobenzene
Concen: 49.003 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX006667.D
Acq: 20 Dec 2018 11:21

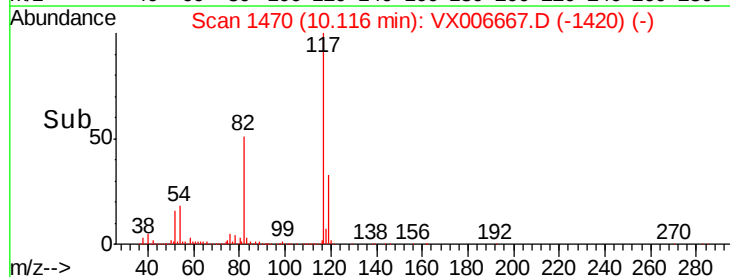
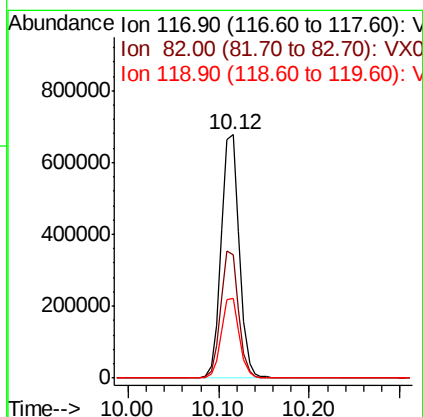
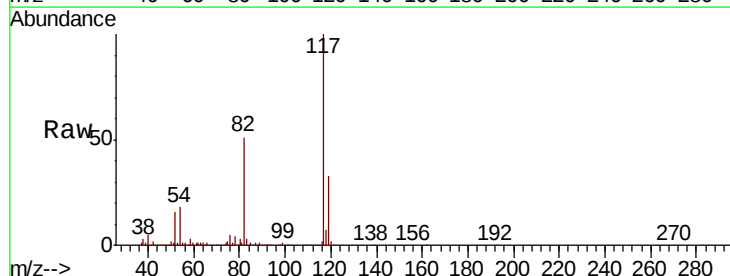
Instrument :
MSVOA_X
ClientSampleId :

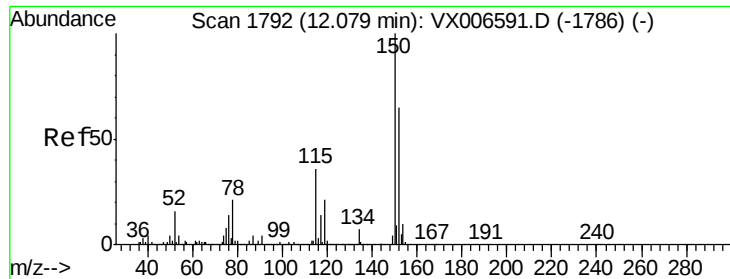
Tot Ion: 95 Resp: 437794
Ion Ratio Lower Upper
95 100
174 87.3 0.0 182.2
176 85.0 0.0 178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006667.D
Acq: 20 Dec 2018 11:21

Tgt Ion: 117 Resp: 943087
Ion Ratio Lower Upper
117 100
82 50.6 41.0 61.6
119 32.7 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006667.D

Acq: 20 Dec 2018 11:21

Instrument :

MSVOA_X

ClientSampleId :

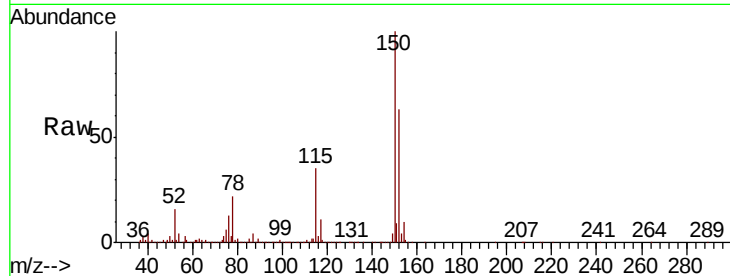
Tot Ion:152 Resp: 447227

Ion Ratio Lower Upper

152 100

115 56.9 39.1 117.2

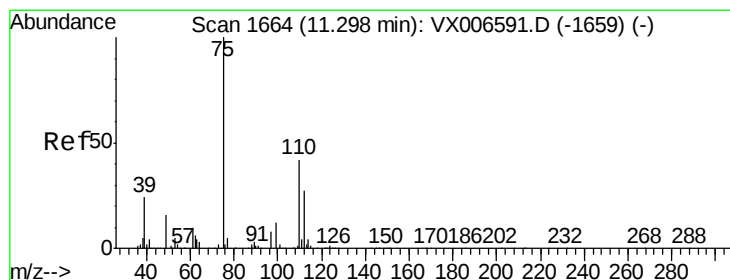
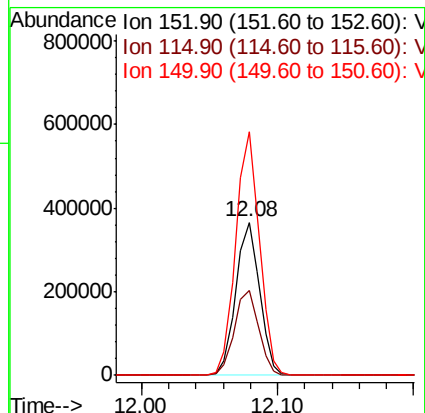
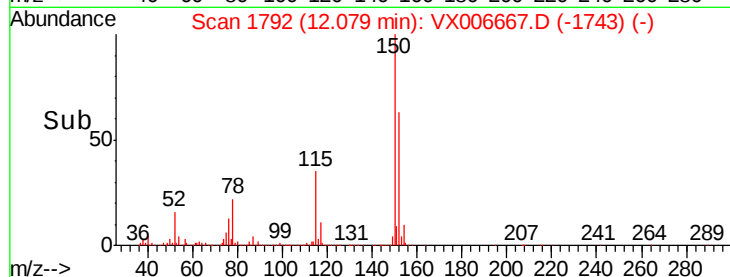
150 158.3 0.0 344.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.264 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006667.D

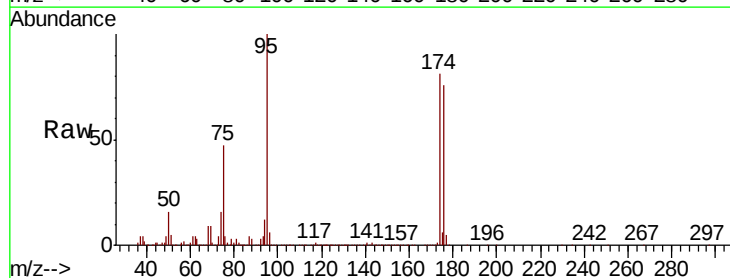
Acq: 20 Dec 2018 11:21

Tgt Ion: 75 Resp: 201664

Ion Ratio Lower Upper

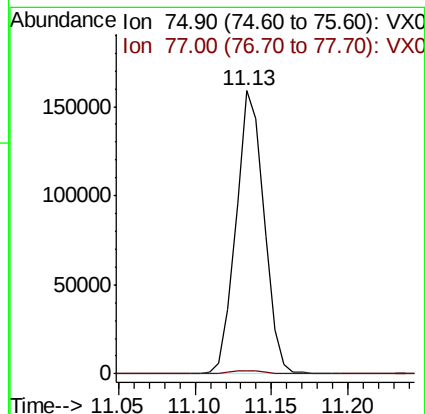
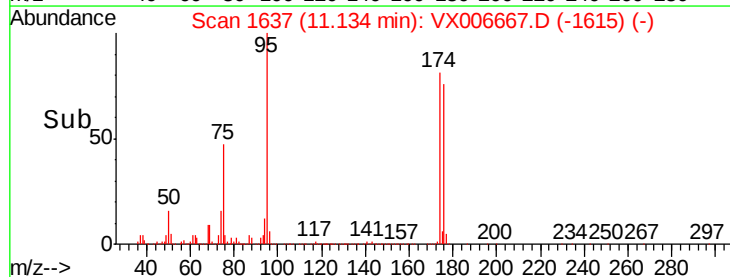
75 100

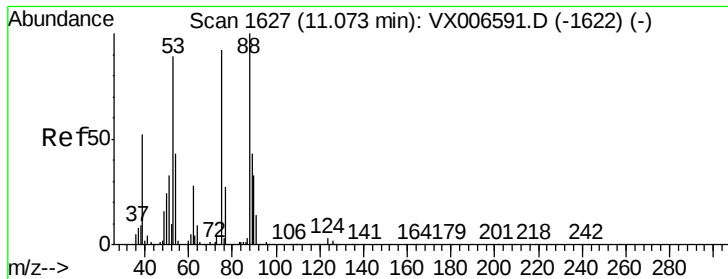
77 1.3 18.5 55.5#



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: 71.823 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006667.D

Acq: 20 Dec 2018 11:21

Instrument :

MSVOA_X

ClientSampleId :

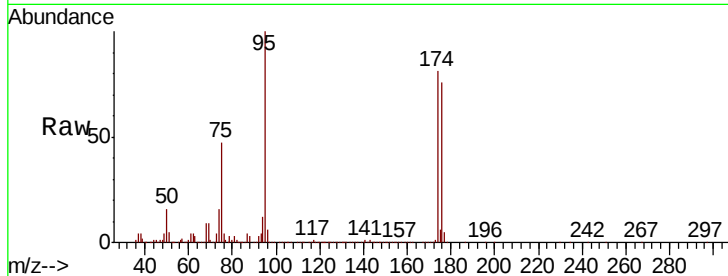
Tot Ion: 75 Resp: 201664

Ion Ratio Lower Upper

75 100

53 0.0 79.7 119.5#

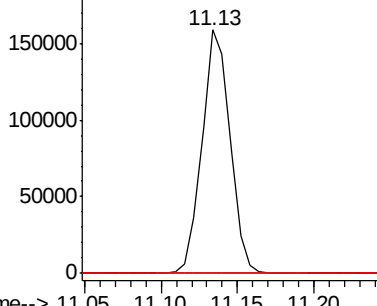
89 0.1 38.0 57.0#



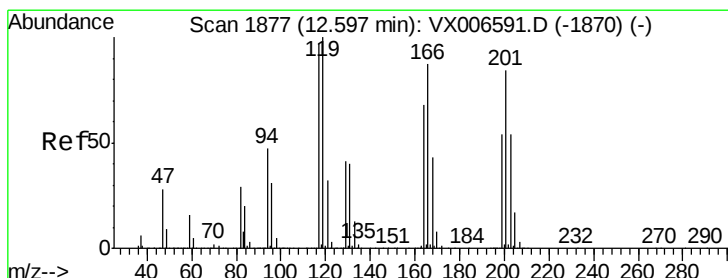
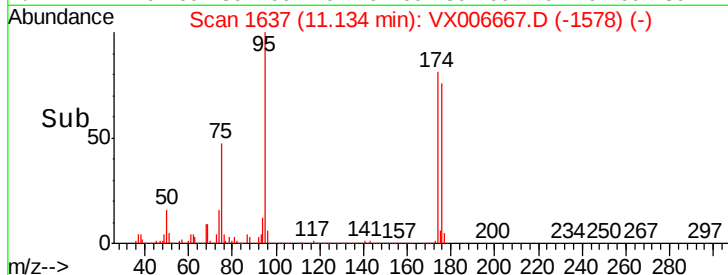
Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



Time--> 11.05 11.10 11.15 11.20



#90

Hexachloroethane

Concen: 3.298 ug/l

RT: 12.41 min Scan# 1846

Delta R.T. -0.19 min

Lab File: VX006667.D

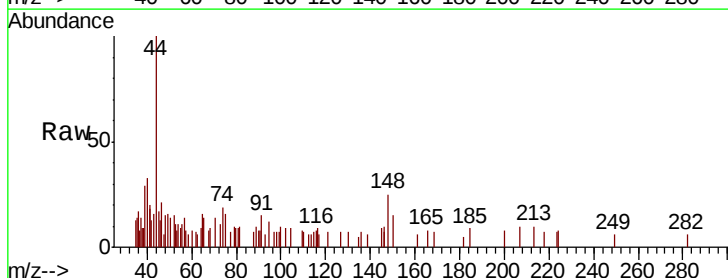
Acq: 20 Dec 2018 11:21

Tgt Ion: 117 Resp: 22

Ion Ratio Lower Upper

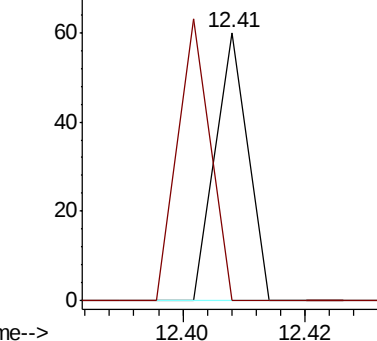
117 100

201 104.5 42.9 128.7

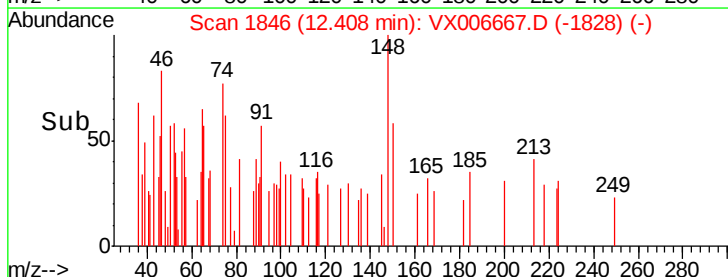


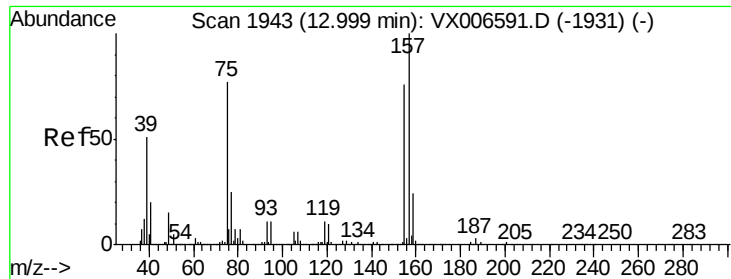
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.201 ug/l

RT: 13.01 min Scan# 1945

Delta R.T. 0.01 min

Lab File: VX006667.D

Acq: 20 Dec 2018 11:21

Instrument :

MSVOA_X

ClientSampleId :

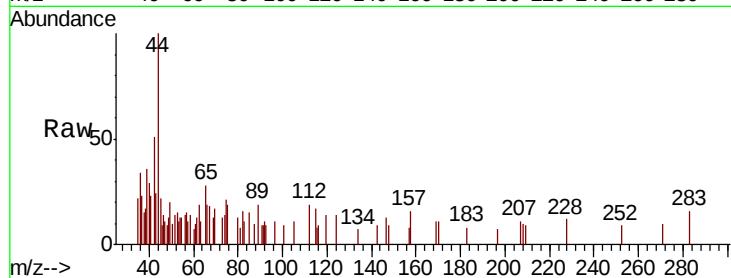
Tot Ion: 75 Resp: 379

Ion Ratio Lower Upper

75 100

155 0.0 50.6 151.8#

157 60.2 64.6 193.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

