

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062018\
 Data File : VX002747.D
 Acq On : 20 Jun 2018 17:40
 Operator : JC/MD
 Sample : J3597-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 21 04:00:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	218616	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	308902	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	283778	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	162238	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	146614	44.13	ug/l	0.00
Spiked Amount			Recovery	=	88.26%	
35) Dibromofluoromethane	5.51	113	115908	47.02	ug/l	0.00
Spiked Amount			Recovery	=	94.04%	
50) Toluene-d8	8.72	98	432270	46.18	ug/l	0.00
Spiked Amount			Recovery	=	92.36%	
62) 4-Bromofluorobenzene	11.14	95	152446	42.98	ug/l	0.00
Spiked Amount			Recovery	=	85.96%	

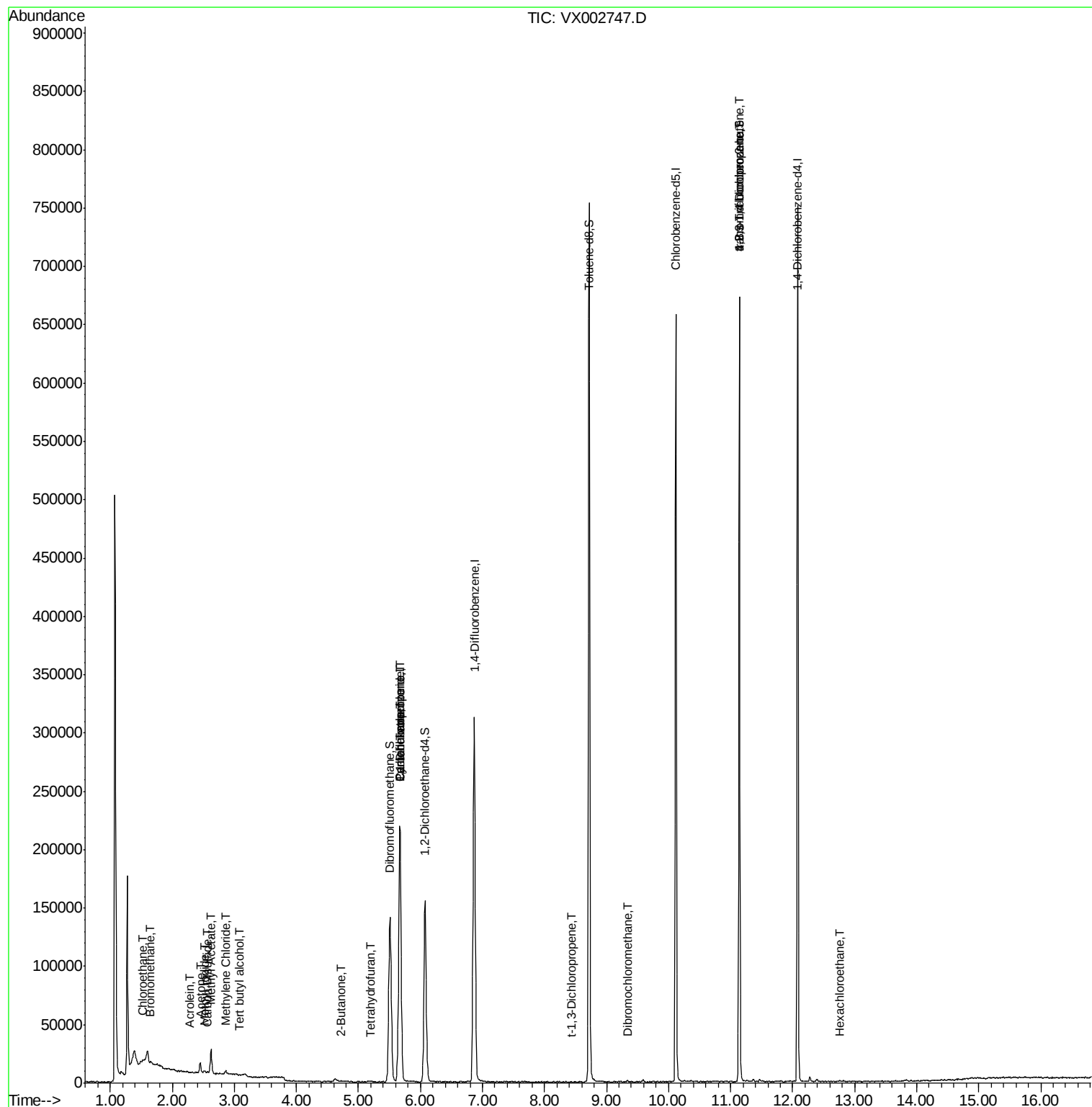
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1573	0.91	ug/l #	63
6) Chloroethane	1.53	64	2236	1.18	ug/l #	50
10) Methyl Iodide	2.52	142	2402	5.79	ug/l #	94
11) Tert butyl alcohol	3.07	59	221	0.32	ug/l #	8
13) Acrolein	2.29	56	166	7.36	ug/l #	14
16) Acetone	2.45	43	11605	7.92	ug/l	94
17) Carbon Disulfide	2.57	76	2344	0.40	ug/l	98
18) Methyl Acetate	2.62	43	5704	1.46	ug/l #	56
20) Methylene Chloride	2.87	84	1156	0.38	ug/l #	68
25) 2-Butanone	4.71	43	481	0.25	ug/l #	52
29) Tetrahydrofuran	5.20	42	695	0.55	ug/l #	74
31) Cyclohexane	5.66	56	4718	1.20	ug/l #	30
36) 1,1-Dichloropropene	5.67	75	15241	4.65	ug/l #	50
38) Carbon Tetrachloride	5.67	117	19745	6.04	ug/l #	16
53) t-1,3-Dichloropropene	8.45	75	67	2.41	ug/l #	43
60) Dibromochloromethane	9.34	129	48	3.78	ug/l #	11
76) 1,2,3-Trichloropropane	11.14	75	80849	26.41	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	80849	81.62	ug/l #	6
90) Hexachloroethane	12.76	117	31	2.64	ug/l #	1

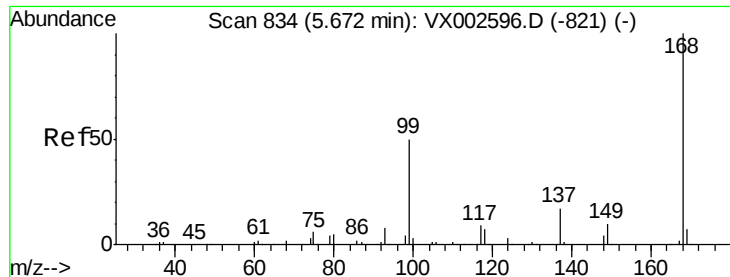
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX002747.D

Acq: 20 Jun 2018 17:40

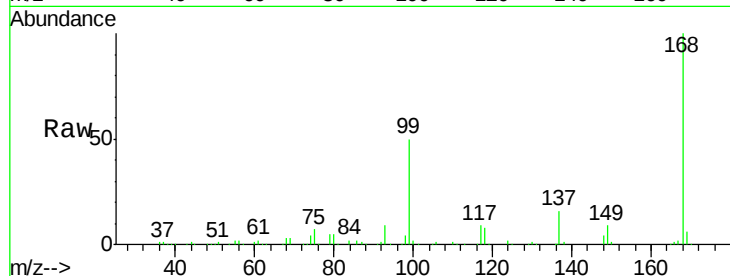
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 218616

Ion Ratio Lower Upper

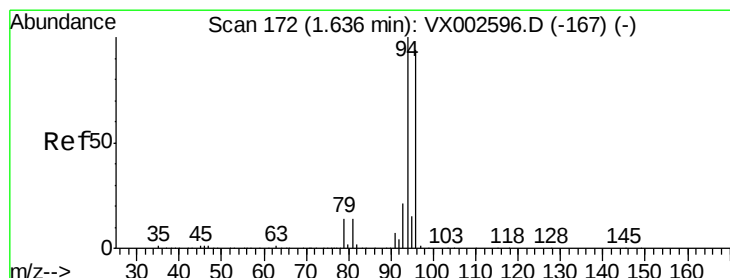
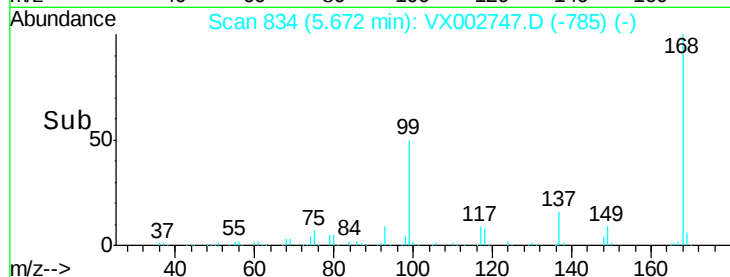
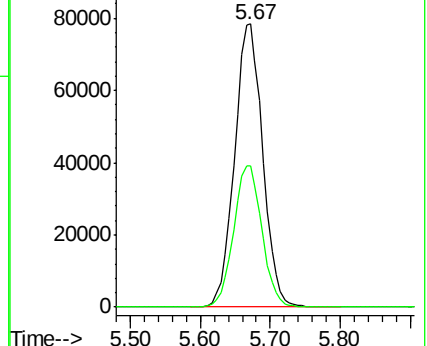
168 100

99 49.9 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.91 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002747.D

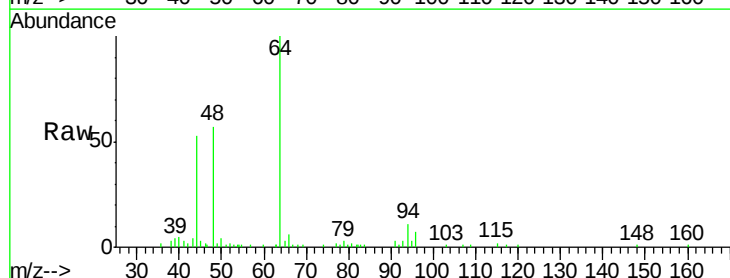
Acq: 20 Jun 2018 17:40

Tgt Ion: 94 Resp: 1573

Ion Ratio Lower Upper

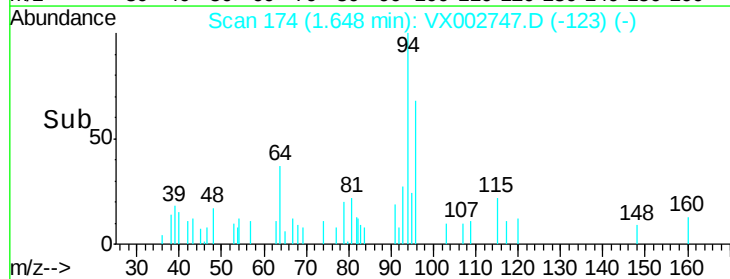
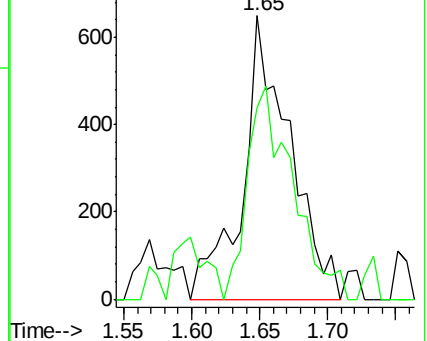
94 100

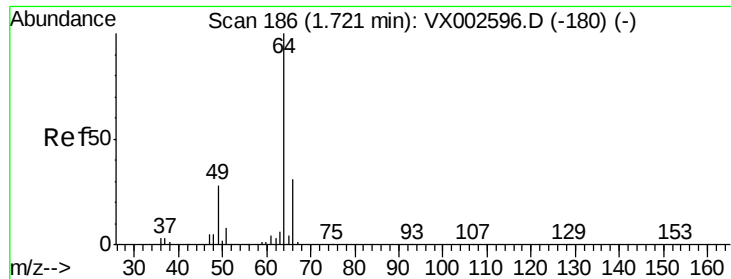
96 57.8 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 1.18 ug/l

RT: 1.53 min Scan# 154

Delta R.T. -0.19 min

Lab File: VX002747.D

Acq: 20 Jun 2018 17:40

Instrument :

MSVOA_X

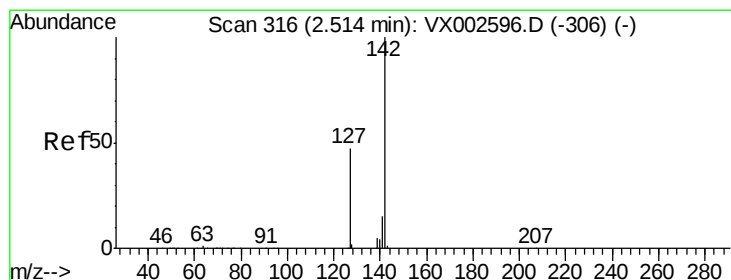
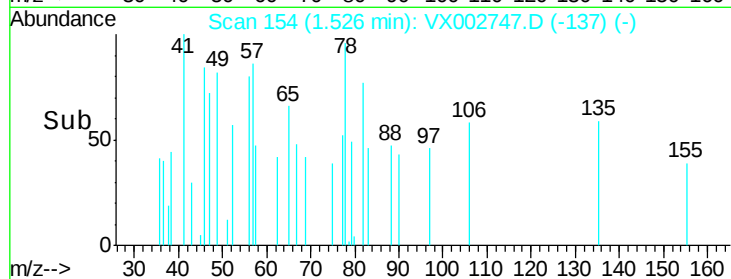
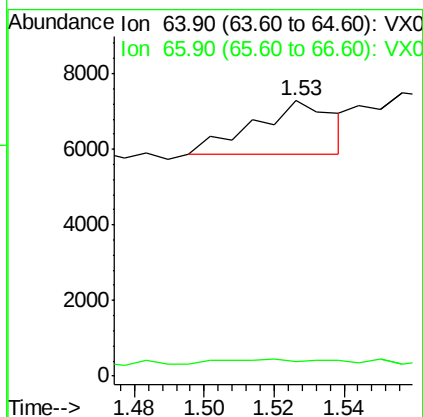
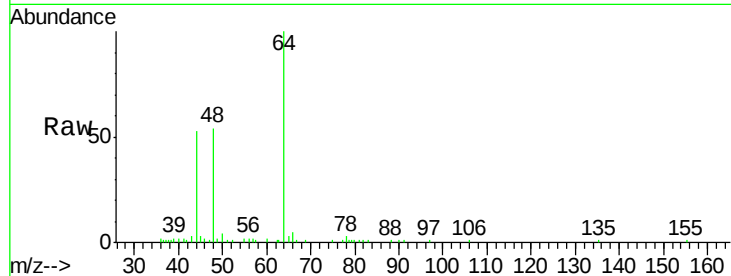
ClientSampleId :

Tot Ion: 64 Resp: 2236

Ion Ratio Lower Upper

64 100

66 3.8 25.5 38.3#



#10

Methyl Iodide

Concen: 5.79 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002747.D

Acq: 20 Jun 2018 17:40

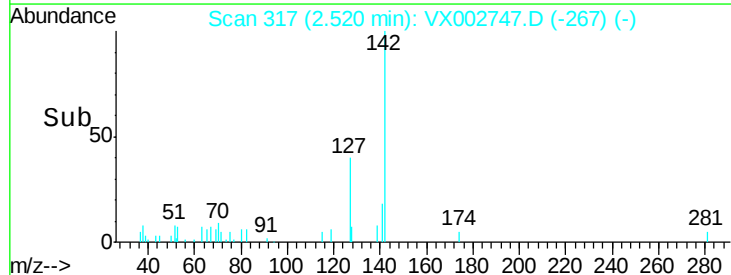
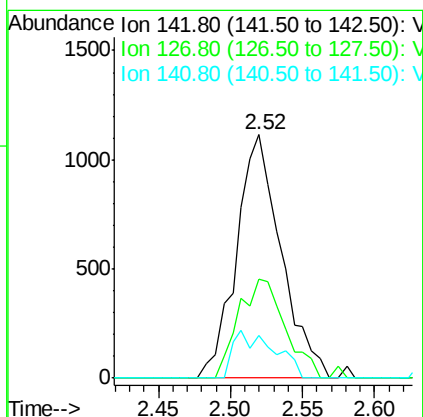
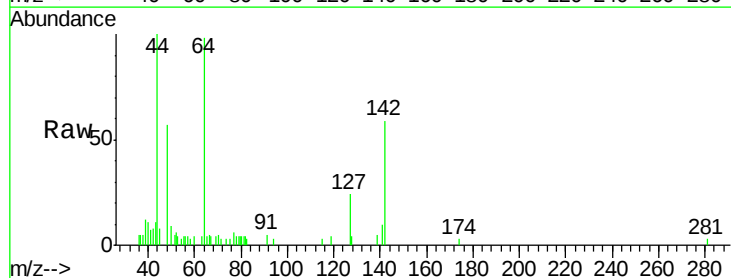
Tgt Ion: 142 Resp: 2402

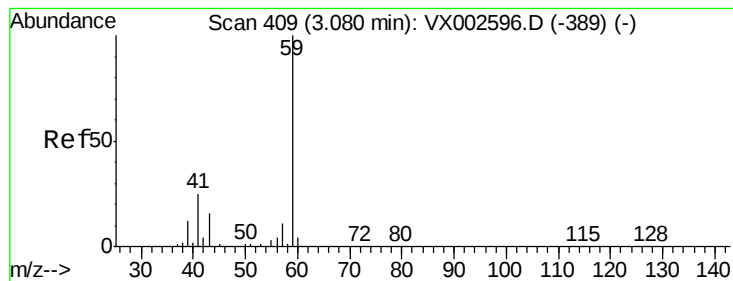
Ion Ratio Lower Upper

142 100

127 42.3 36.6 55.0

141 18.0 11.3 16.9#



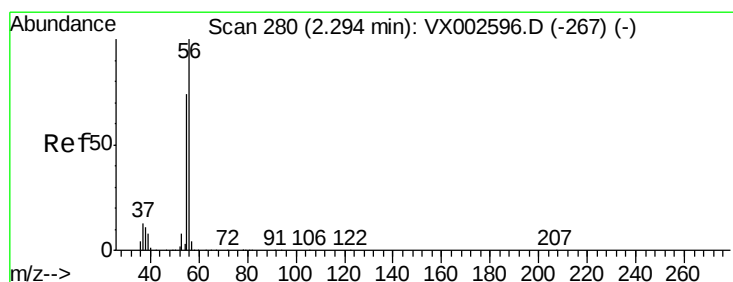
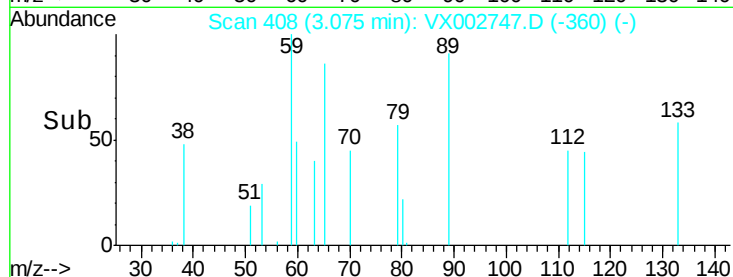
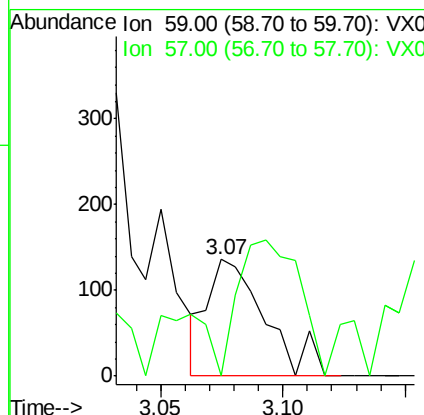
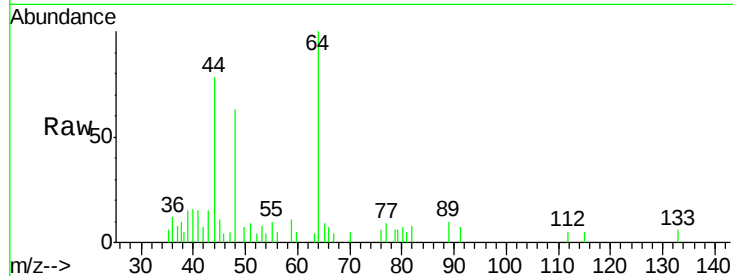


#11

Tert butyl alcohol
Concen: 0.32 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002747.D
Acq: 20 Jun 2018 17:40

Instrument :
MSVOA_X
ClientSampled :

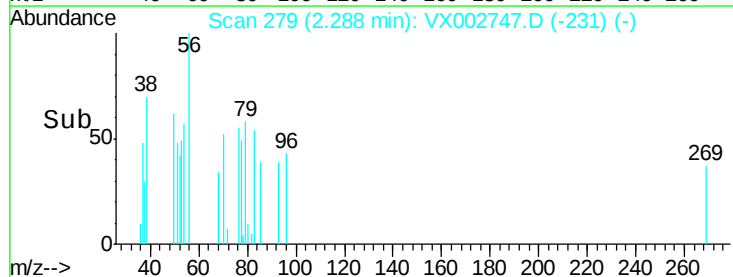
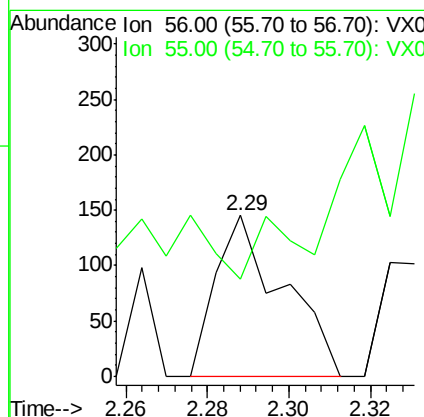
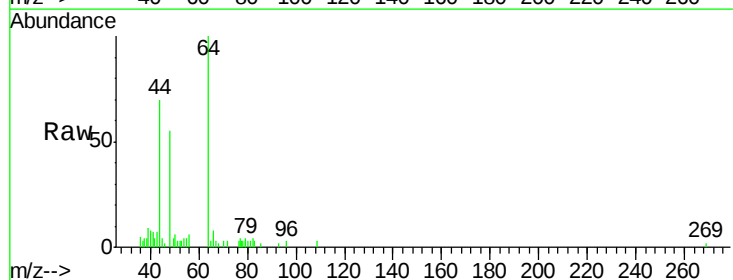
Tot Ion: 59 Resp: 221
Ion Ratio Lower Upper
59 100
57 44.3 8.2 12.2#

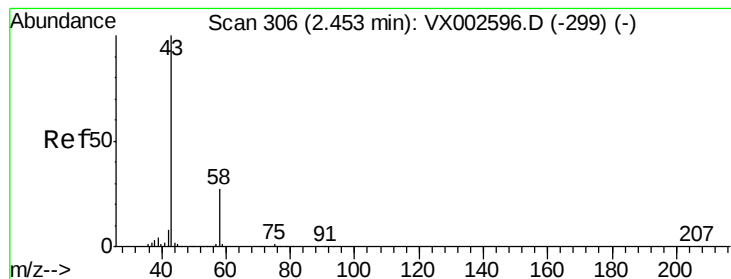


#13

Acrolein
Concen: 7.36 ug/l
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX002747.D
Acq: 20 Jun 2018 17:40

Tgt Ion: 56 Resp: 166
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#





#16

Acetone

Concen: 7.92 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002747.D

Acq: 20 Jun 2018 17:40

Instrument :

MSVOA_X

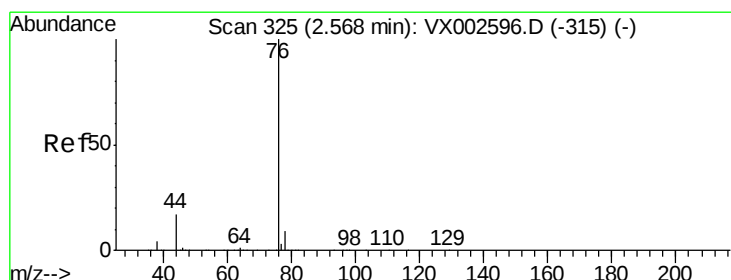
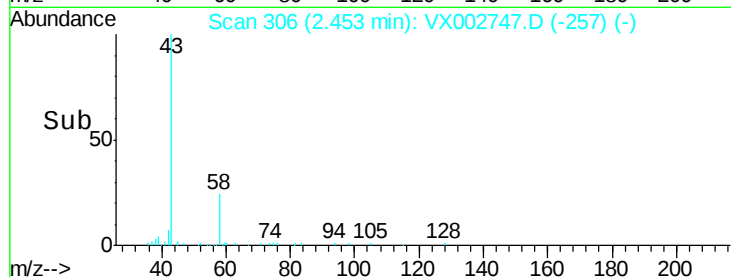
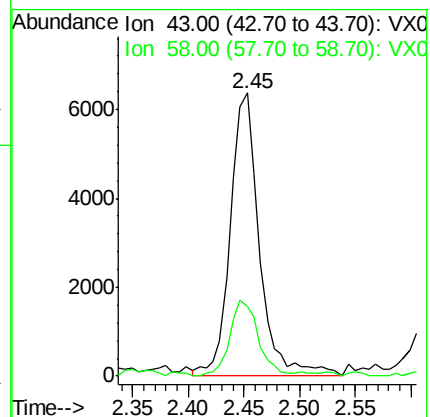
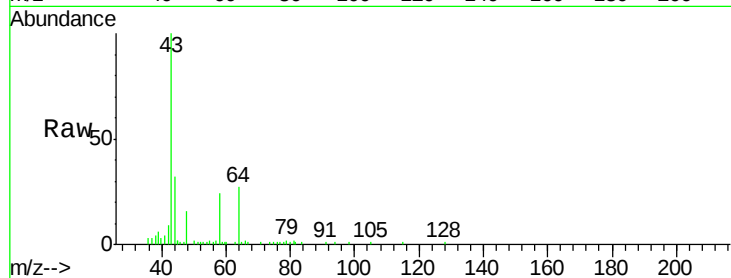
ClientSampleId :

Tot Ion: 43 Resp: 11605

Ion Ratio Lower Upper

43 100

58 24.5 22.1 33.1



#17

Carbon Disulfide

Concen: 0.40 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX002747.D

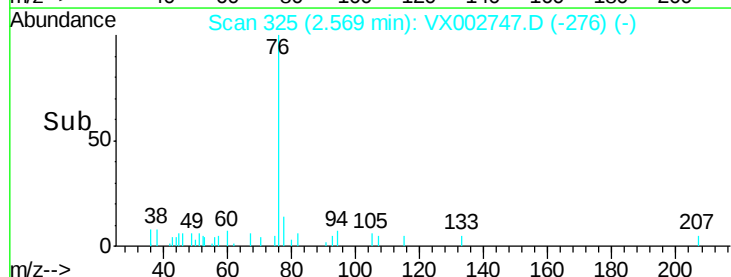
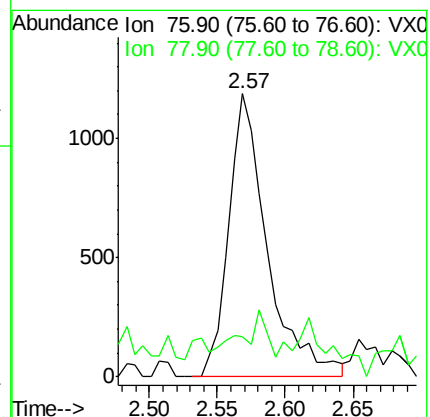
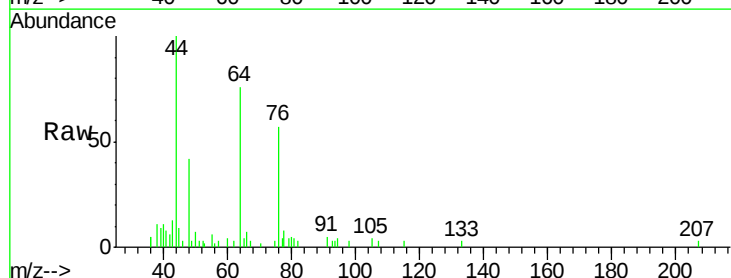
Acq: 20 Jun 2018 17:40

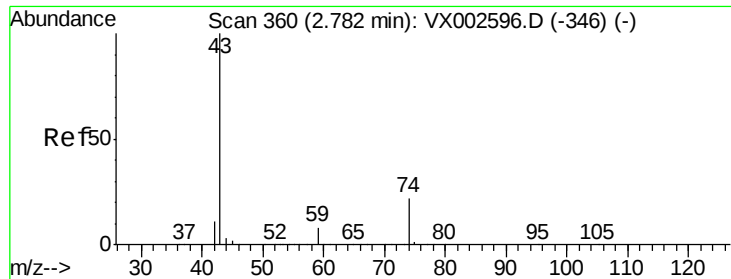
Tgt Ion: 76 Resp: 2344

Ion Ratio Lower Upper

76 100

78 7.8 6.9 10.3

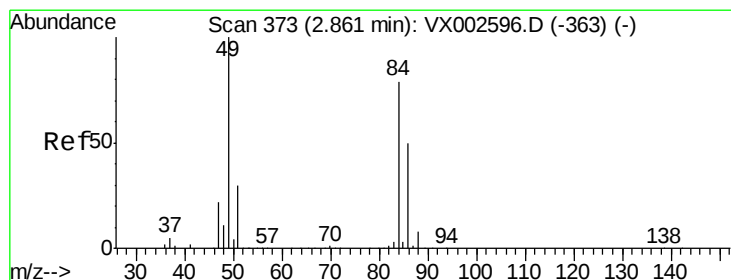
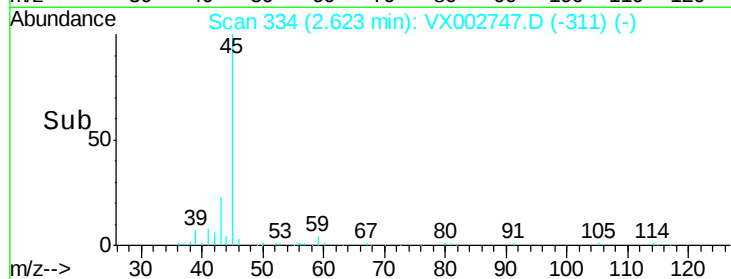
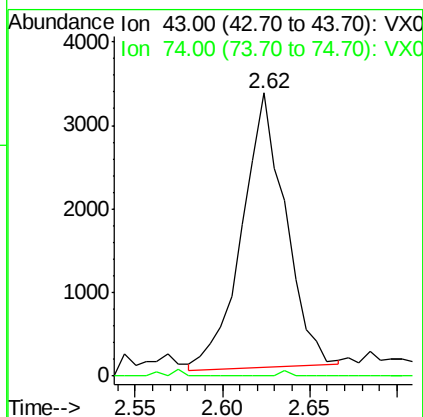
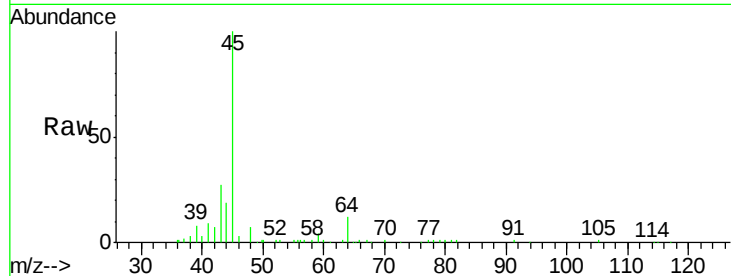




#18
Methyl Acetate
Concen: 1.46 ug/l
RT: 2.62 min Scan# 334
Delta R.T. -0.16 min
Lab File: VX002747.D
Acq: 20 Jun 2018 17:40

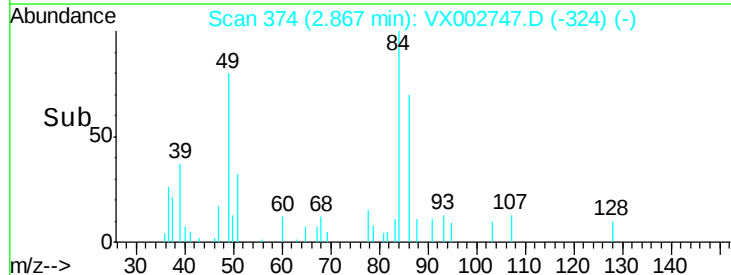
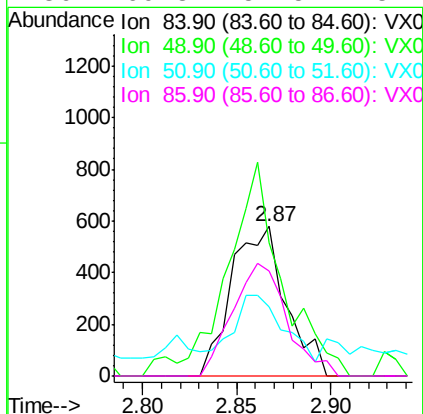
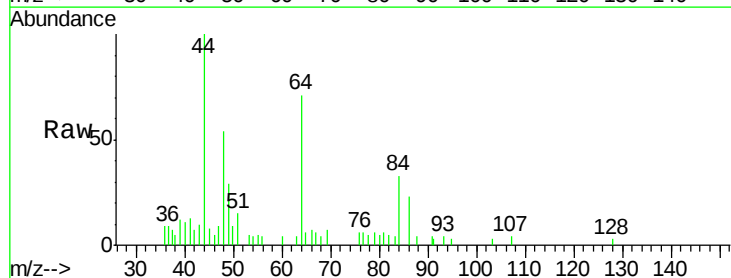
Instrument :
MSVOA_X
ClientSampleId :

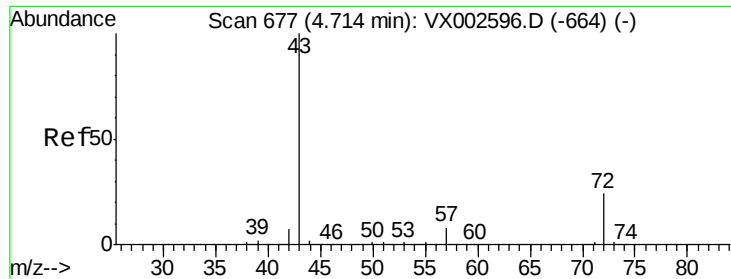
Tot Ion: 43 Resp: 5704
Ion Ratio Lower Upper
43 100
74 0.5 16.7 25.1#



#20
Methylene Chloride
Concen: 0.38 ug/l
RT: 2.87 min Scan# 374
Delta R.T. 0.01 min
Lab File: VX002747.D
Acq: 20 Jun 2018 17:40

Tgt Ion: 84 Resp: 1156
Ion Ratio Lower Upper
84 100
49 77.5 107.8 161.6#
51 28.3 32.8 49.2#
86 69.8 52.5 78.7





#25

2-Butanone

Concen: 0.25 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.00 min

Lab File: VX002747.D

Acq: 20 Jun 2018 17:40

Instrument :

MSVOA_X

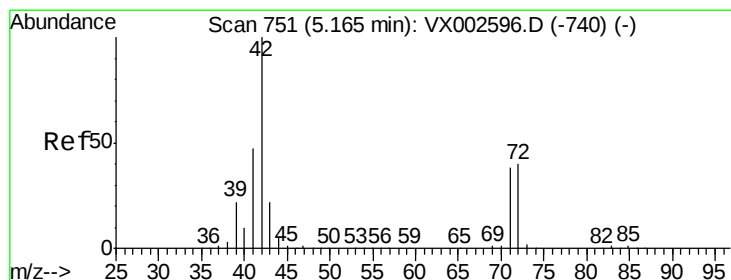
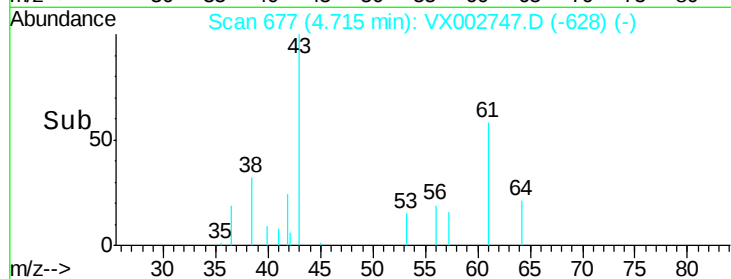
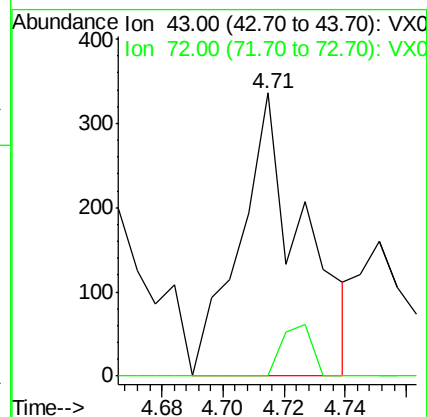
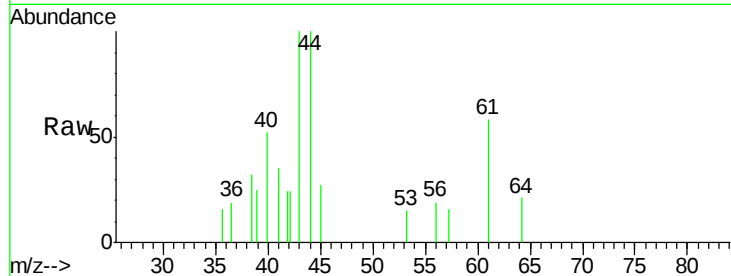
ClientSampleId :

Tot Ion: 43 Resp: 481

Ion Ratio Lower Upper

43 100

72 0.0 18.5 27.7#



#29

Tetrahydrofuran

Concen: 0.55 ug/l

RT: 5.20 min Scan# 756

Delta R.T. 0.03 min

Lab File: VX002747.D

Acq: 20 Jun 2018 17:40

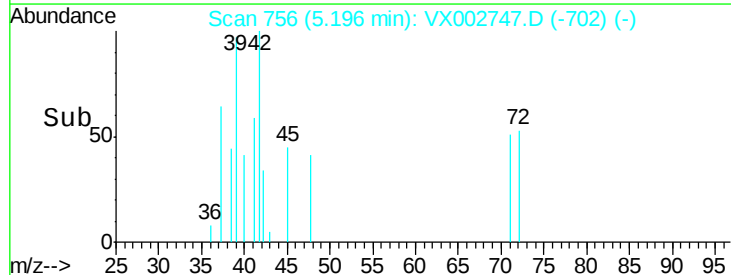
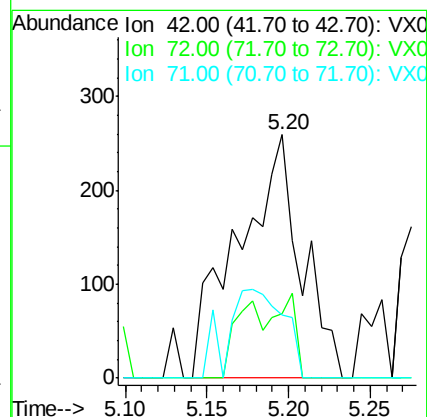
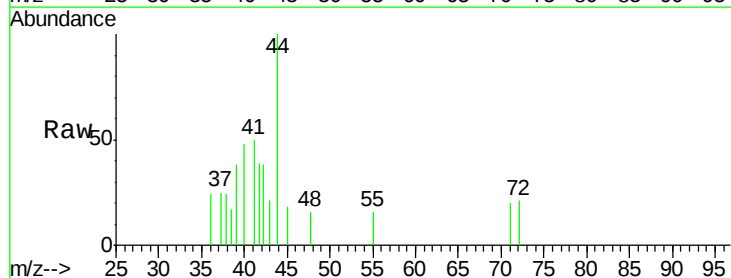
Tgt Ion: 42 Resp: 695

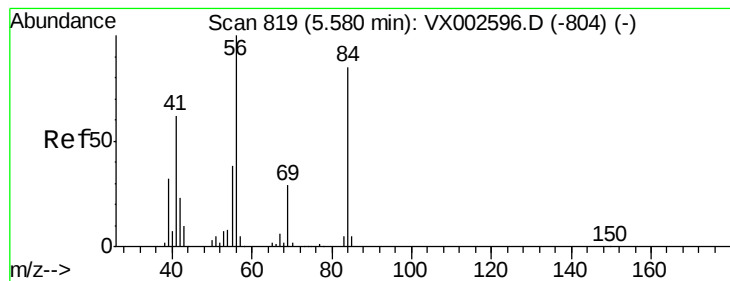
Ion Ratio Lower Upper

42 100

72 13.8 32.0 48.0#

71 32.5 30.1 45.1





#31

Cyclohexane

Concen: 1.20 ug/l

RT: 5.66 min Scan# 832

Delta R.T. 0.08 min

Lab File: VX002747.D

Acq: 20 Jun 2018 17:40

Instrument :

MSVOA_X

ClientSampled :

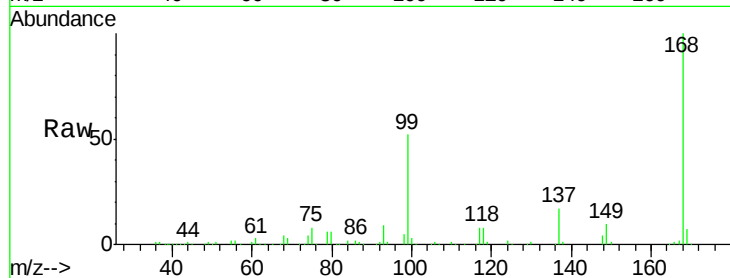
Tot Ion: 56 Resp: 4718

Ion Ratio Lower Upper

56 100

69 134.6 23.7 35.5#

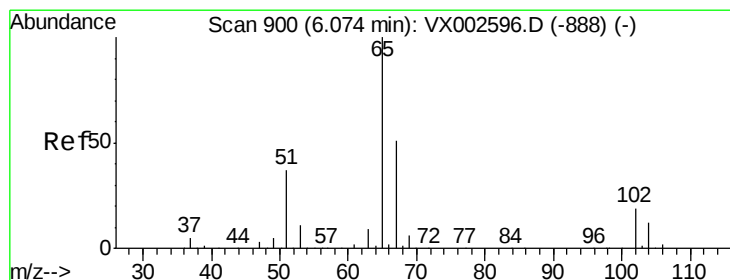
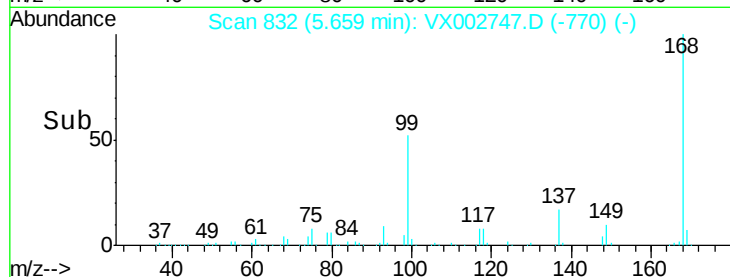
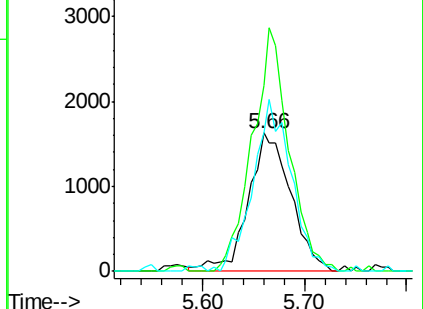
84 100.9 64.1 96.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 44.13 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002747.D

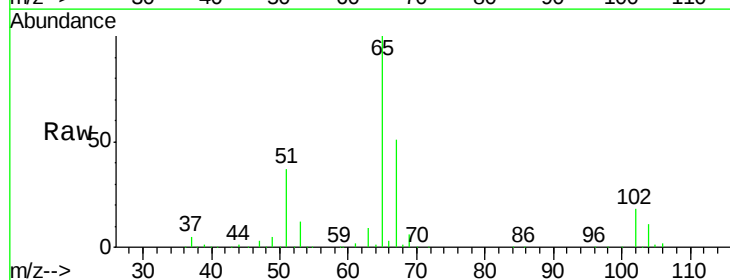
Acq: 20 Jun 2018 17:40

Tgt Ion: 65 Resp: 146614

Ion Ratio Lower Upper

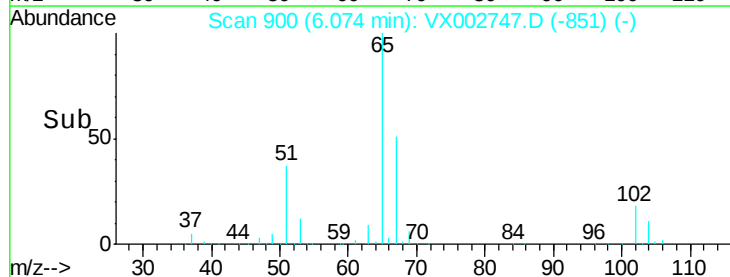
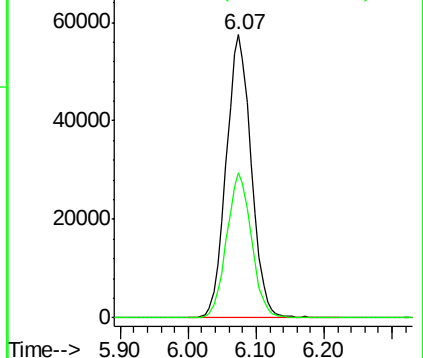
65 100

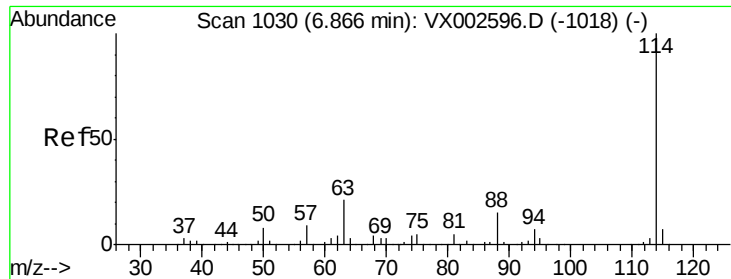
67 50.7 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

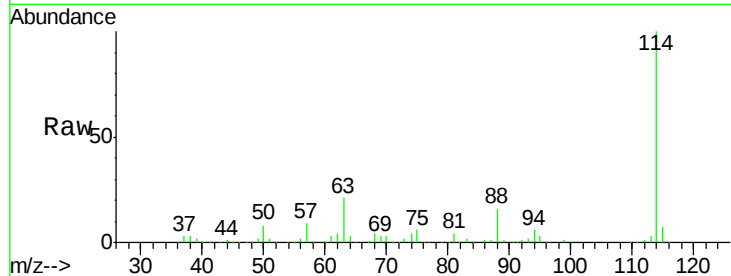




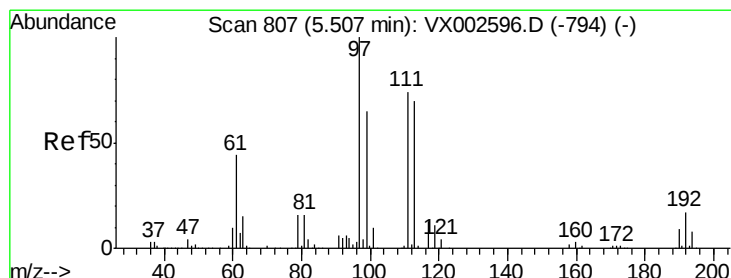
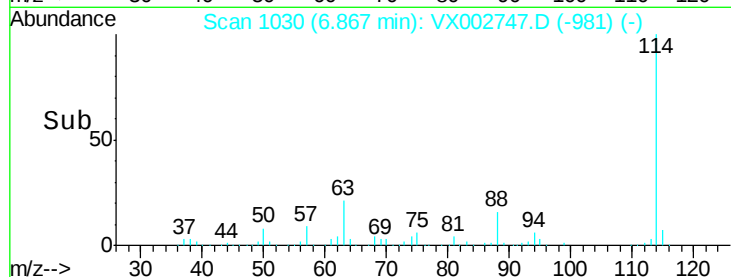
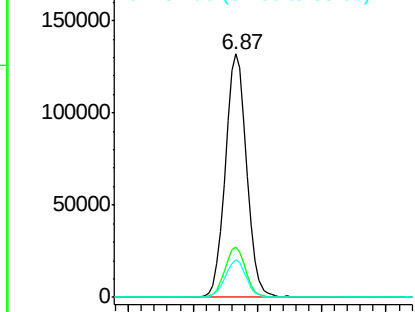
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002747.D
 Acq: 20 Jun 2018 17:40

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 308902
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 41.4
 88 15.6 0.0 30.0

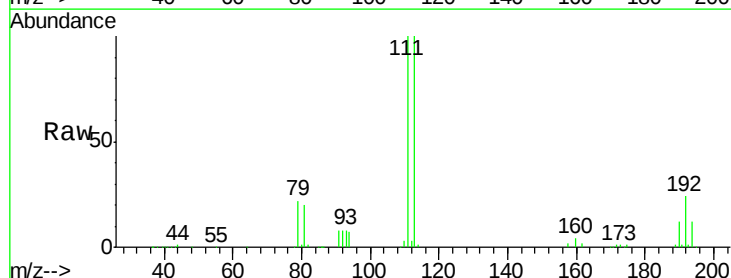


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

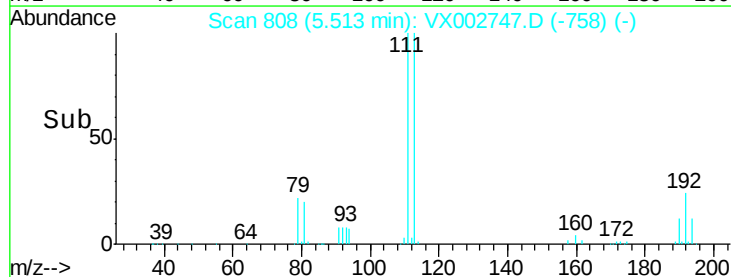
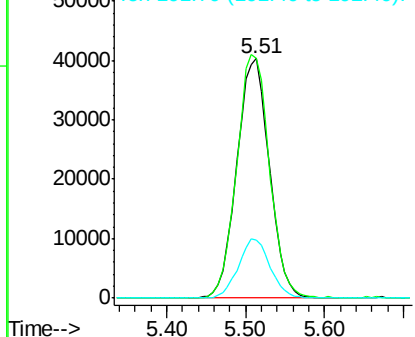


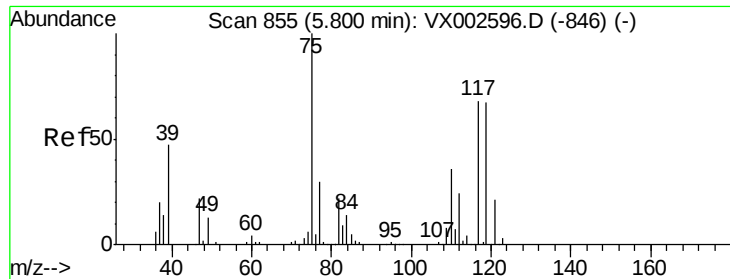
#35
 Dibromofluoromethane
 Concen: 47.02 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.01 min
 Lab File: VX002747.D
 Acq: 20 Jun 2018 17:40

Tgt Ion:113 Resp: 115908
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.4 122.0
 192 24.0 19.1 28.7



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

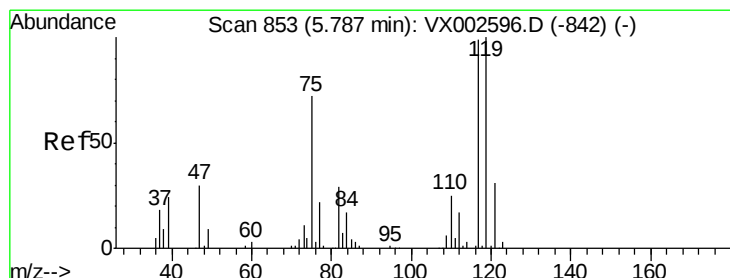
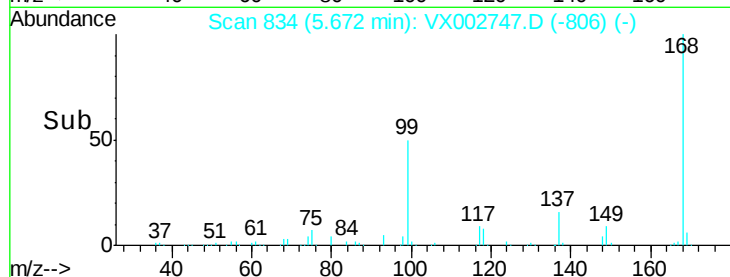
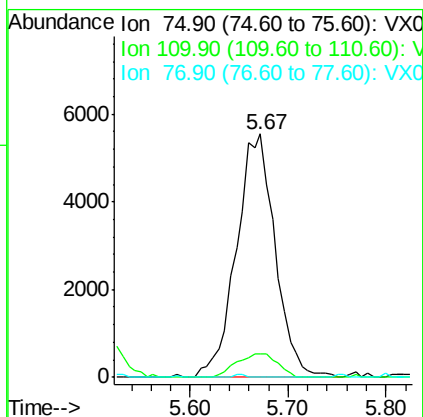
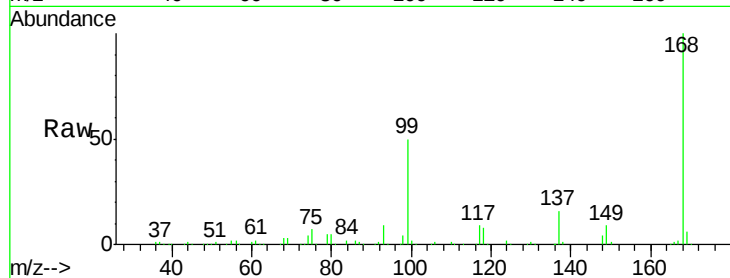




#36
 1,1-Dichloropropene
 Concen: 4.65 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002747.D
 Acq: 20 Jun 2018 17:40

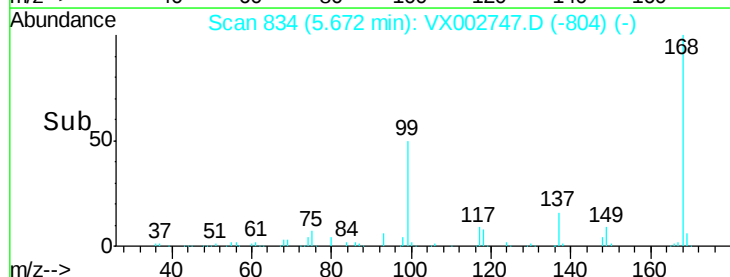
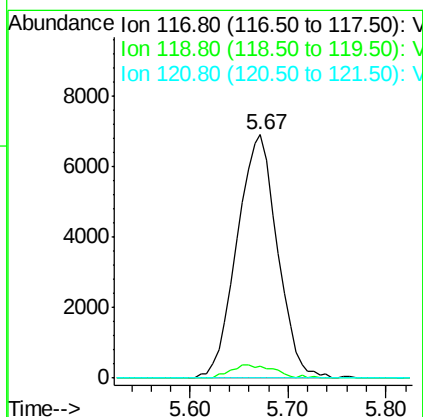
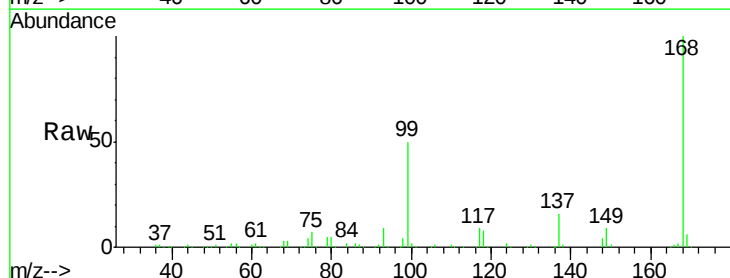
Instrument :
 MSVOA_X
 ClientSampleId :

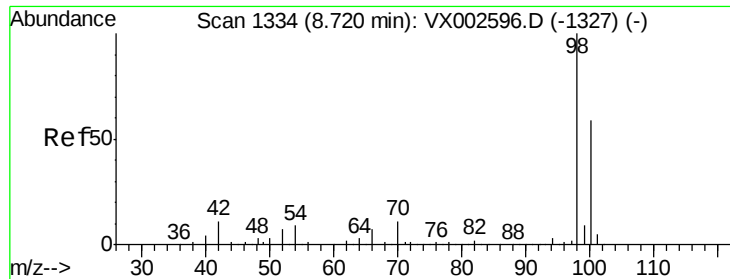
Tot Ion: 75 Resp: 15241
 Ion Ratio Lower Upper
 75 100
 110 10.2 18.1 54.4#
 77 0.0 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 6.04 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002747.D
 Acq: 20 Jun 2018 17:40

Tgt Ion: 117 Resp: 19745
 Ion Ratio Lower Upper
 117 100
 119 5.0 77.4 116.0#
 121 0.0 24.4 36.6#





#50

Toluene-d8

Concen: 46.18 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002747.D

Acq: 20 Jun 2018 17:40

Instrument :

MSVOA_X

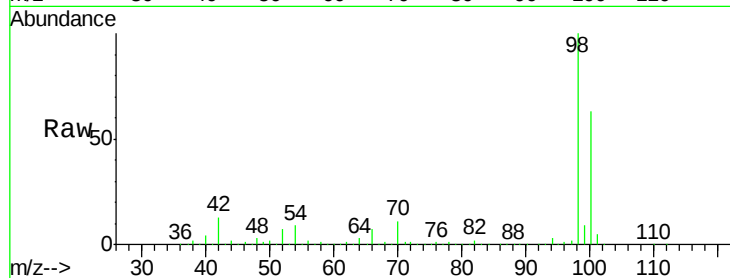
ClientSampleId :

Tot Ion: 98 Resp: 432270

Ion Ratio Lower Upper

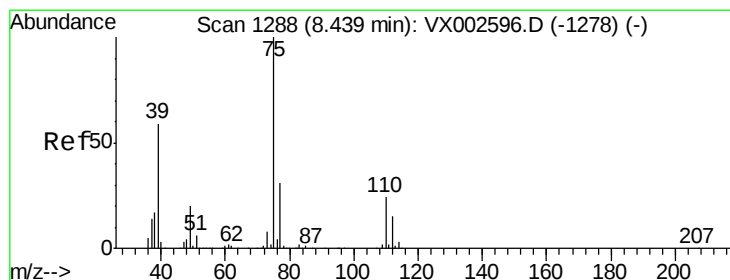
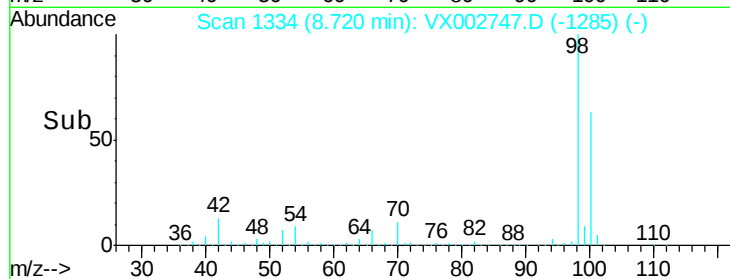
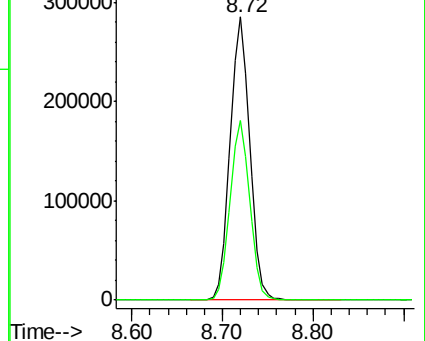
98 100

100 63.6 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#53

t-1,3-Dichloropropene

Concen: 2.41 ug/l

RT: 8.45 min Scan# 1289

Delta R.T. 0.01 min

Lab File: VX002747.D

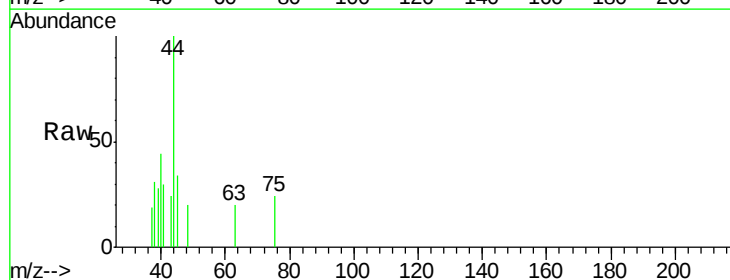
Acq: 20 Jun 2018 17:40

Tgt Ion: 75 Resp: 67

Ion Ratio Lower Upper

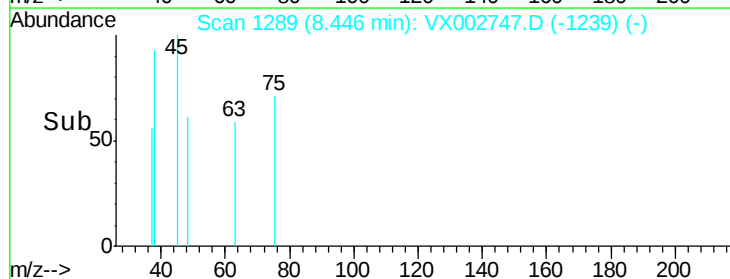
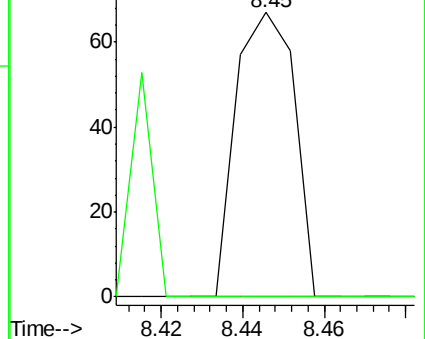
75 100

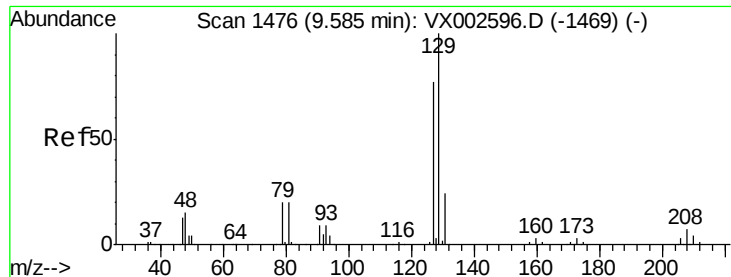
77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0





#60

Dibromochloromethane

Concen: 3.78 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.25 min

Lab File: VX002747.D

Acq: 20 Jun 2018 17:40

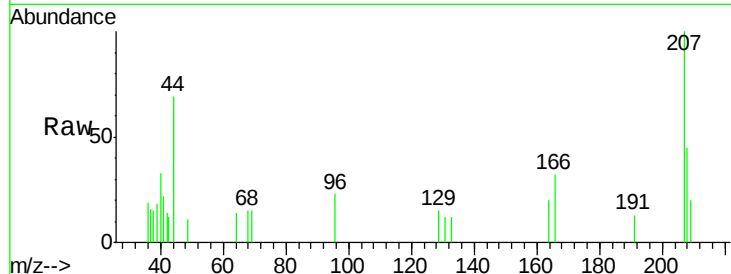
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:129 Resp: 48

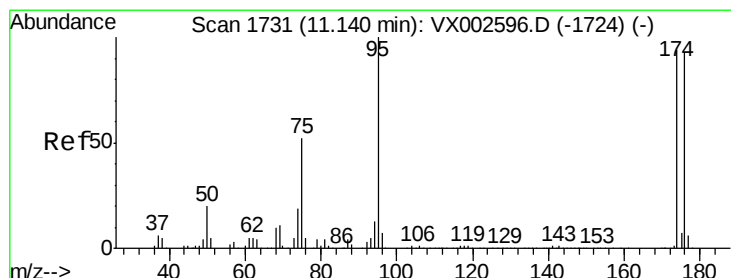
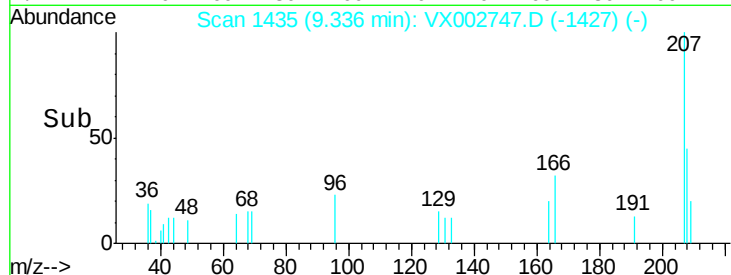
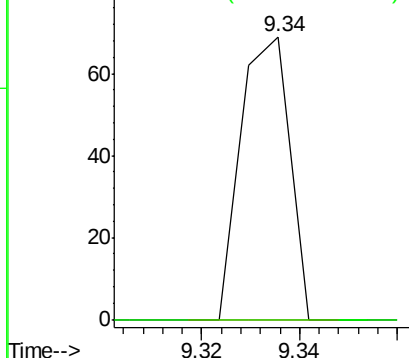
Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 42.98 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002747.D

Acq: 20 Jun 2018 17:40

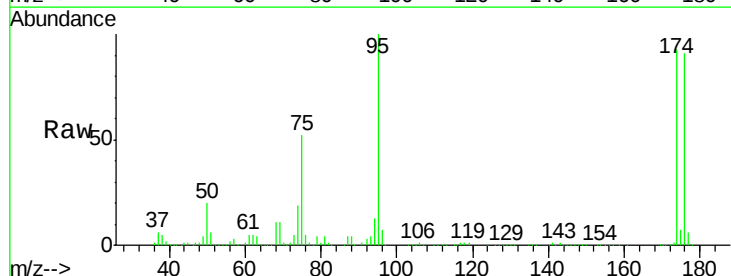
Tgt Ion: 95 Resp: 152446

Ion Ratio Lower Upper

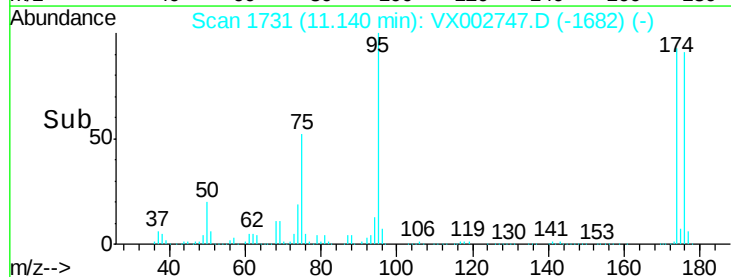
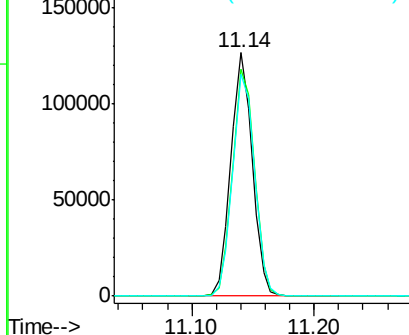
95 100

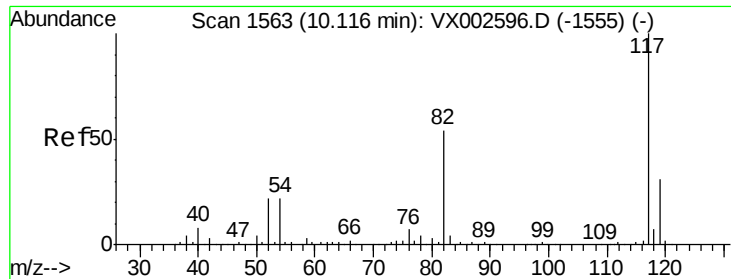
174 95.9 0.0 187.4

176 94.0 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

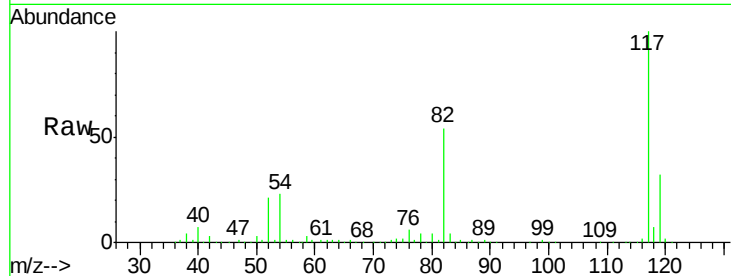




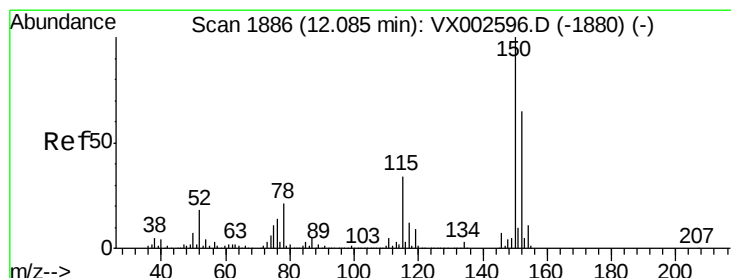
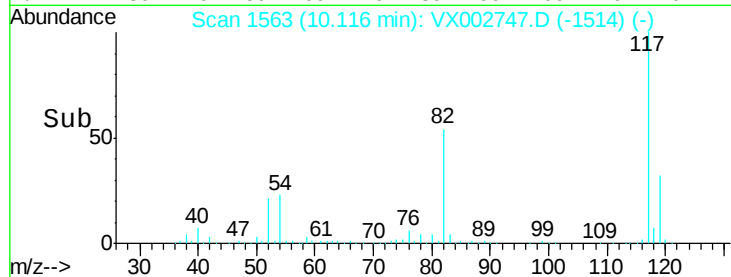
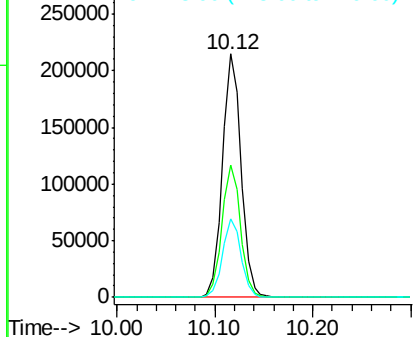
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002747.D
Acq: 20 Jun 2018 17:40

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 283778
Ion Ratio Lower Upper
117 100
82 54.1 45.0 67.4
119 32.1 25.8 38.6

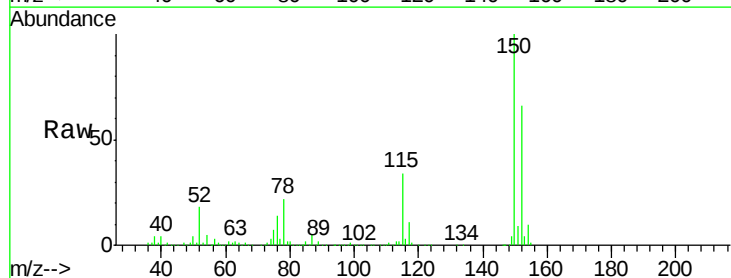


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

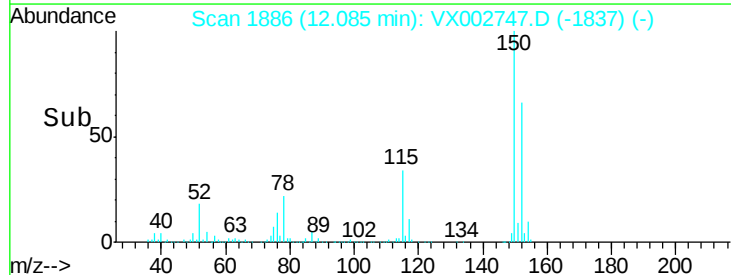
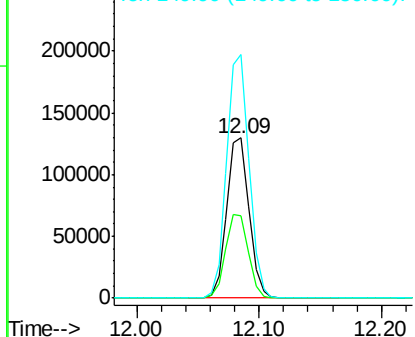


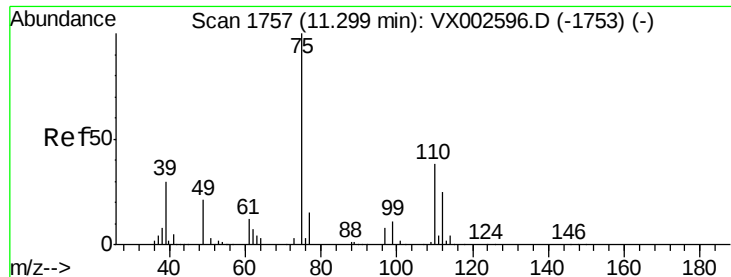
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX002747.D
Acq: 20 Jun 2018 17:40

Tgt Ion:152 Resp: 162238
Ion Ratio Lower Upper
152 100
115 53.6 40.1 120.2
150 153.1 0.0 347.2



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: 26.41 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002747.D

Acq: 20 Jun 2018 17:40

Instrument :

MSVOA_X

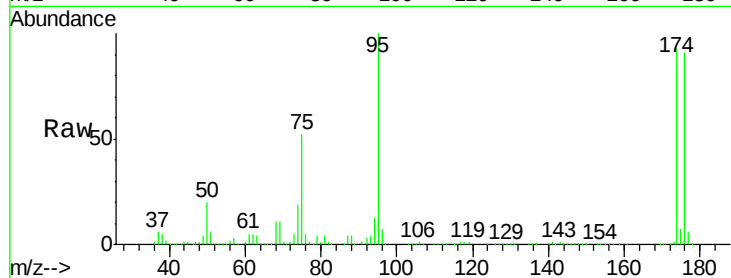
ClientSampleId :

Tot Ion: 75 Resp: 80849

Ion Ratio Lower Upper

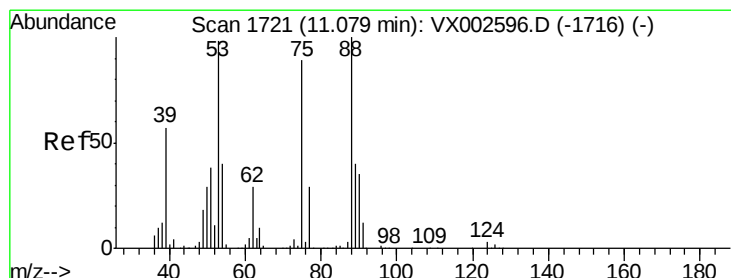
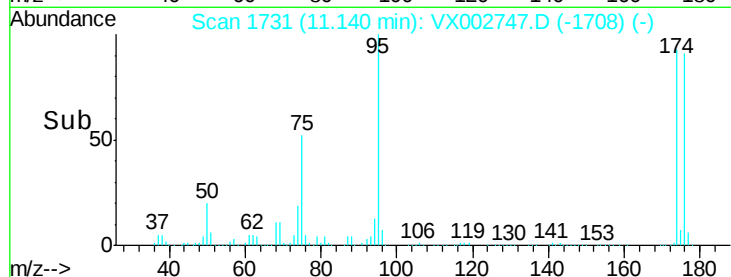
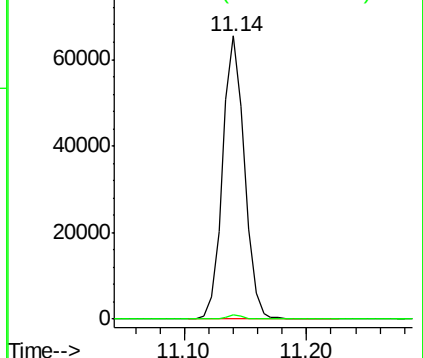
75 100

77 1.3 22.8 68.3#



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: 81.62 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002747.D

Acq: 20 Jun 2018 17:40

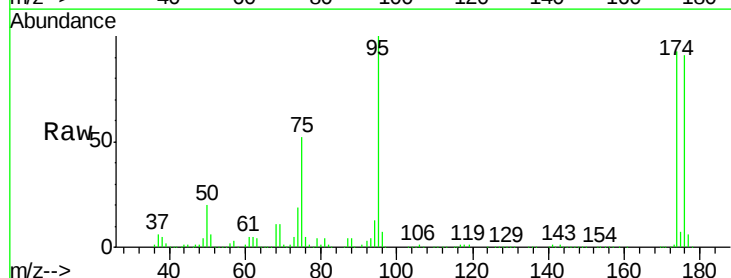
Tgt Ion: 75 Resp: 80849

Ion Ratio Lower Upper

75 100

53 0.0 86.8 130.2#

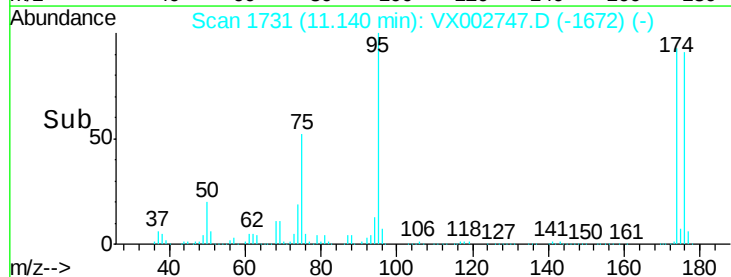
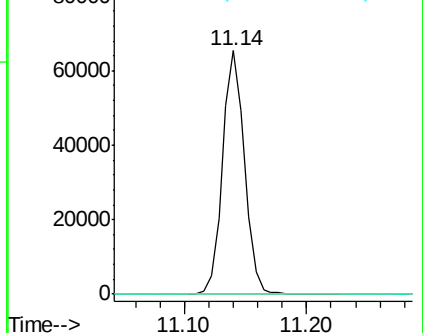
89 0.1 38.2 57.2#

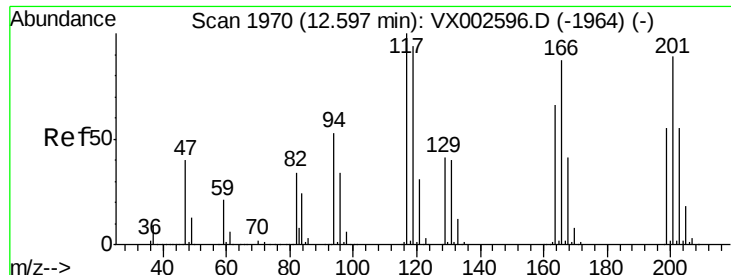


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#90

Hexachloroethane

Concen: 2.64 ug/l

RT: 12.76 min Scan# 1996

Delta R.T. 0.16 min

Lab File: VX002747.D

Acq: 20 Jun 2018 17:40

Instrument :

MSVOA_X

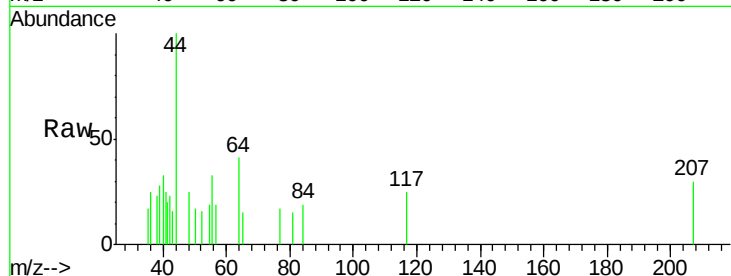
ClientSampleId :

Tot Ion:117 Resp: 31

Ion Ratio Lower Upper

117 100

201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

