

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX033118\
 Data File : VX000596.D
 Acq On : 31 Mar 2018 16:34
 Operator : JC/MD
 Sample : J1760-10 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 02 05:18:18 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X032018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 21 04:52:42 2018
 Response via : Initial Calibration

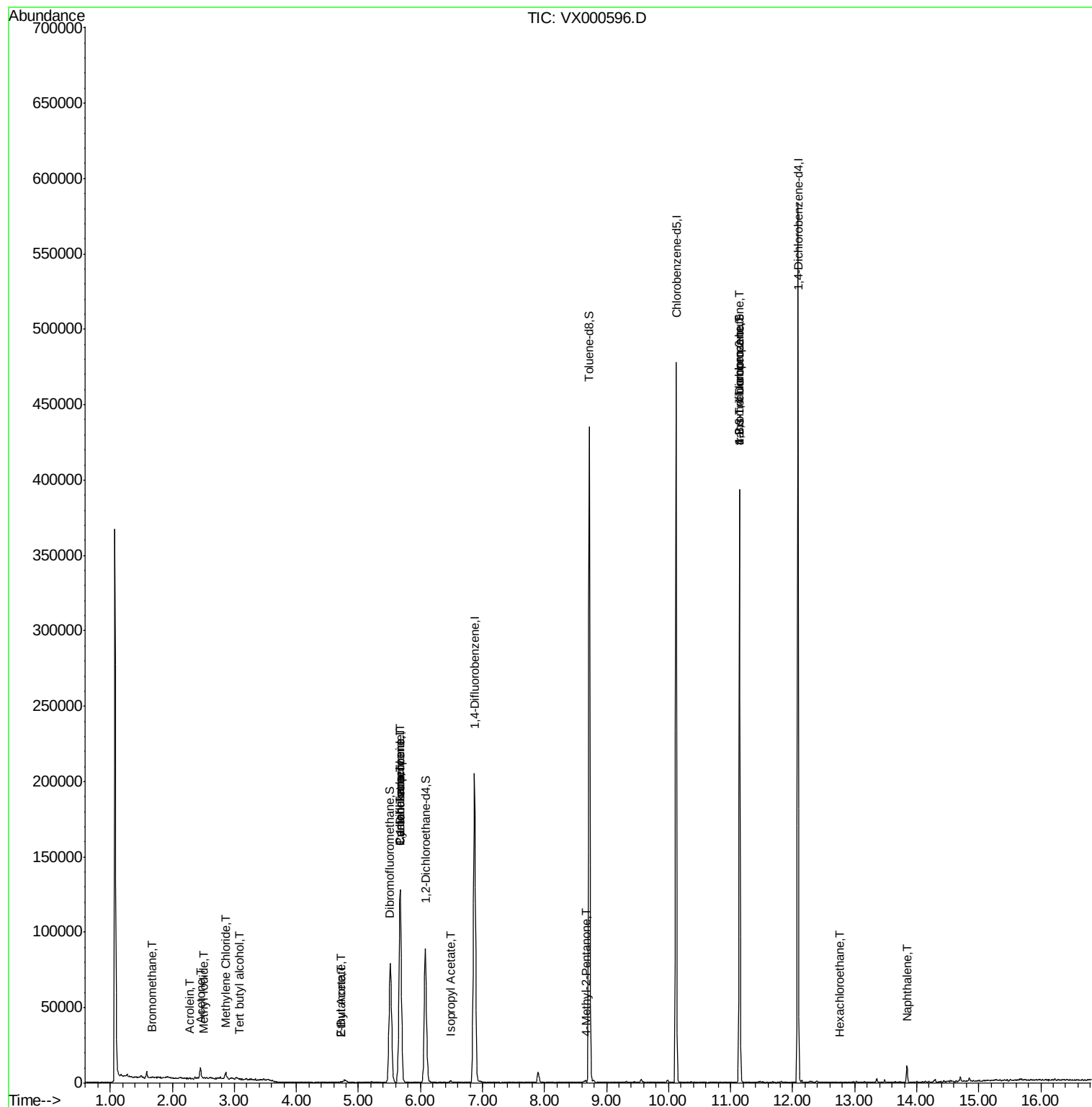
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	120812	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	202468	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	199510	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	105784	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.08	65	80937	51.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.64%	
35) Dibromofluoromethane	5.52	113	62182	48.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.48%	
50) Toluene-d8	8.72	98	256522	48.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.10%	
62) 4-Bromofluorobenzene	11.15	95	90574	41.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.46%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.66	94	404	0.274	ug/l #	71
6) Chloroethane	1.72	64	328	Below Cal	#	44
10) Methyl Iodide	2.51	142	209	4.405	ug/l #	37
11) Tert butyl alcohol	3.08	59	193	0.356	ug/l	98
13) Acrolein	2.29	56	61	14.910	ug/l #	13
16) Acetone	2.45	43	7611	5.802	ug/l #	85
20) Methylene Chloride	2.86	84	1900	1.254	ug/l #	81
25) 2-Butanone	4.72	43	1131	0.767	ug/l	91
31) Cyclohexane	5.67	56	2948	1.482	ug/l #	42
36) 1,1-Dichloropropene	5.67	75	9506	5.012	ug/l #	51
37) Ethyl Acetate	4.72	43	1131	0.437	ug/l #	69
38) Carbon Tetrachloride	5.67	117	12186	6.125	ug/l #	15
43) Isopropyl Acetate	6.48	43	1495	0.388	ug/l #	73
51) 4-Methyl-2-Pentanone	8.66	43	877	0.294	ug/l #	81
74) N-amyl acetate	6.48	43	1495	Below Cal	#	78
76) 1,2,3-Trichloropropane	11.15	75	52371	23.036	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.15	75	52371	74.582	ug/l #	9
90) Hexachloroethane	12.76	117	276	0.268	ug/l #	12
95) Naphthalene	13.84	128	6545	0.757	ug/l	96

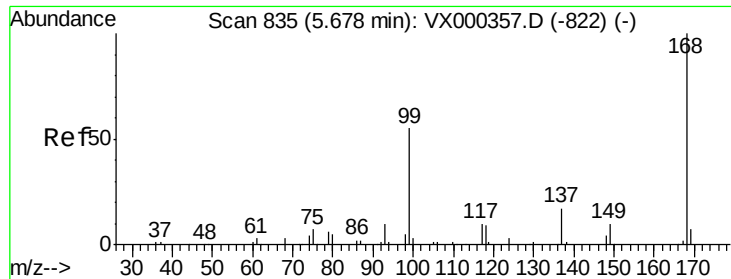
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Mar 21 04:52:42 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.01 min

Lab File: VX000596.D

Acq: 31 Mar 2018 16:34

Instrument :

MSVOA_X

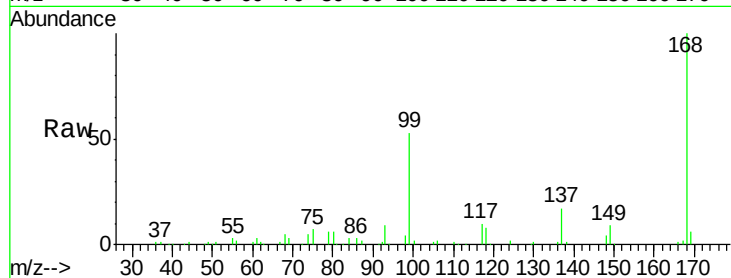
ClientSampleId :

Tot Ion:168 Resp: 120812

Ion Ratio Lower Upper

168 100

99 52.7 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

40000

30000

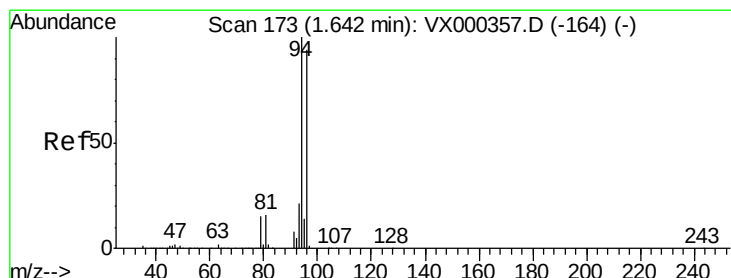
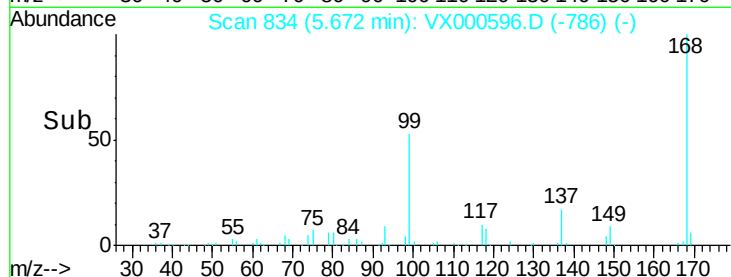
20000

10000

0

5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: 0.274 ug/l

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX000596.D

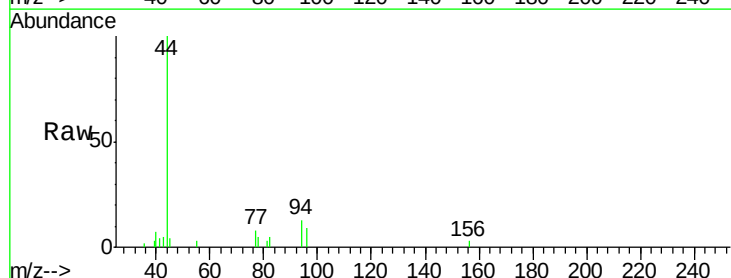
Acq: 31 Mar 2018 16:34

Tgt Ion: 94 Resp: 404

Ion Ratio Lower Upper

94 100

96 68.6 77.7 116.5#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

300

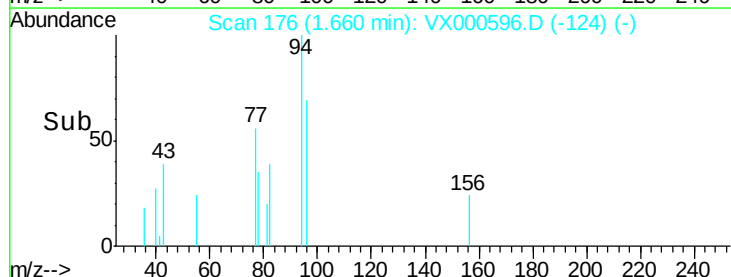
200

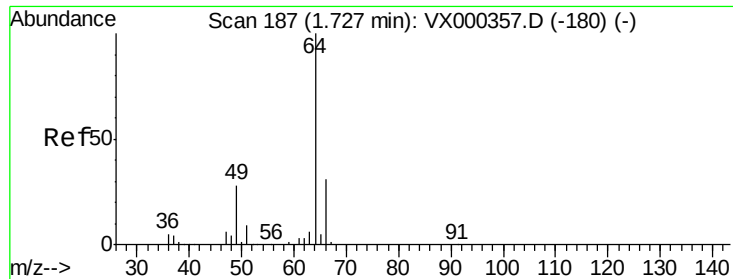
100

0

1.65 1.70

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX000596.D

Acq: 31 Mar 2018 16:34

Instrument :

MSVOA_X

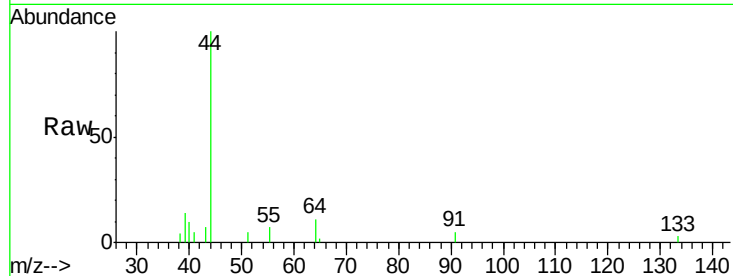
ClientSampleId :

Tot Ion: 64 Resp: 328

Ion Ratio Lower Upper

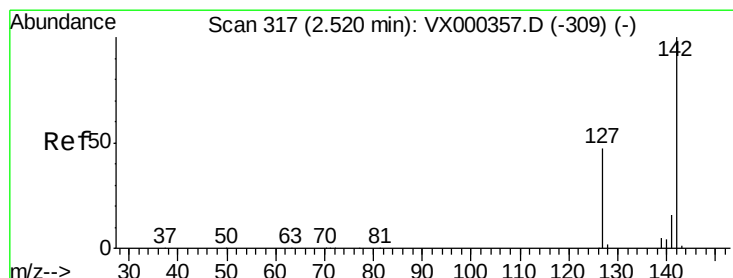
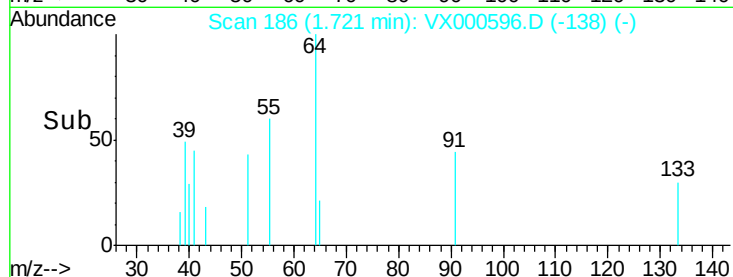
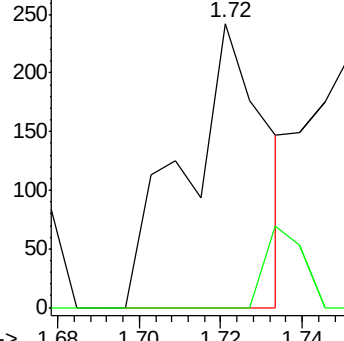
64 100

66 0.0 24.8 37.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 4.405 ug/l

RT: 2.51 min Scan# 316

Delta R.T. -0.01 min

Lab File: VX000596.D

Acq: 31 Mar 2018 16:34

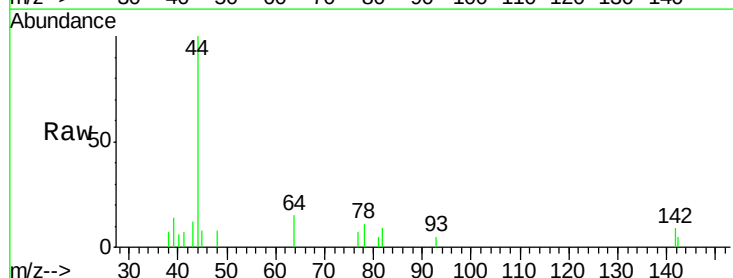
Tgt Ion: 142 Resp: 209

Ion Ratio Lower Upper

142 100

127 0.0 39.2 58.8#

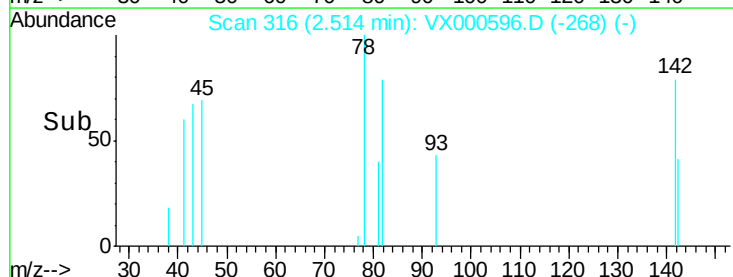
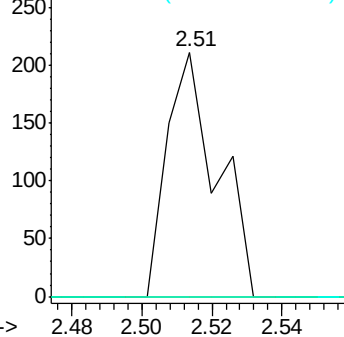
141 0.0 11.7 17.5#

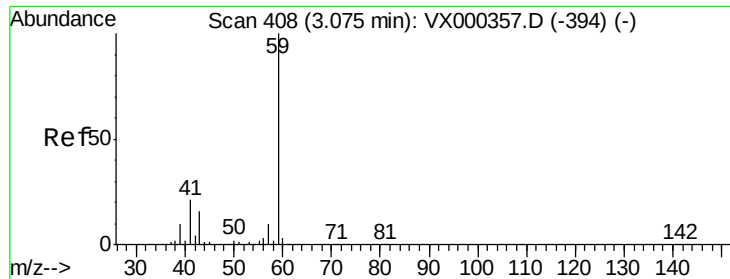


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

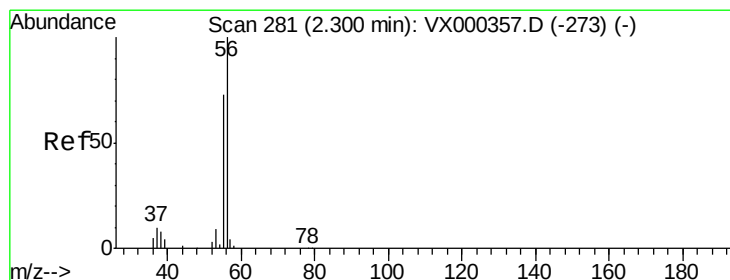
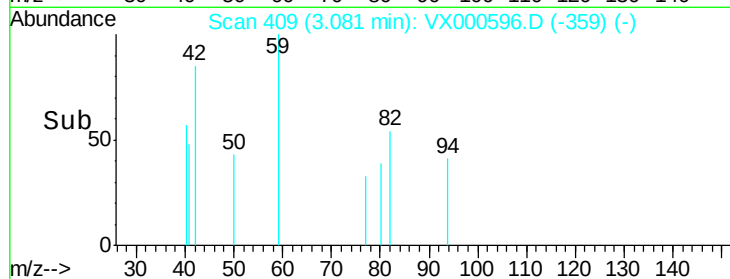
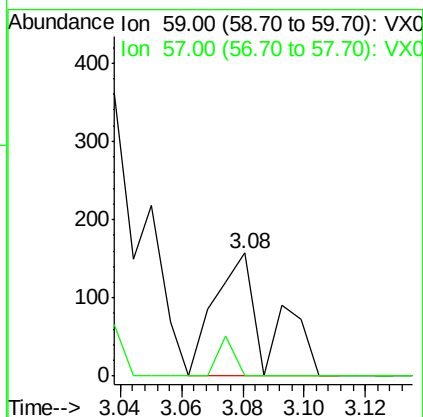
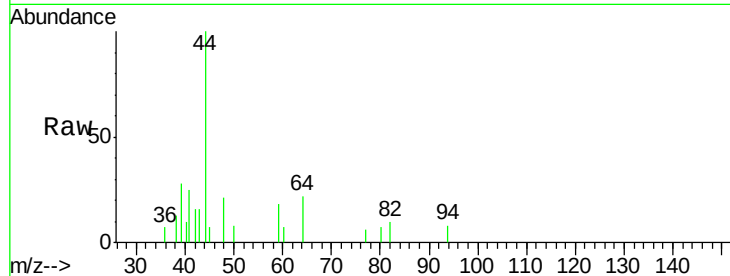




#11
Tert butyl alcohol
Concen: 0.356 ug/l
RT: 3.08 min Scan# 409
Delta R.T. 0.01 min
Lab File: VX000596.D
Acq: 31 Mar 2018 16:34

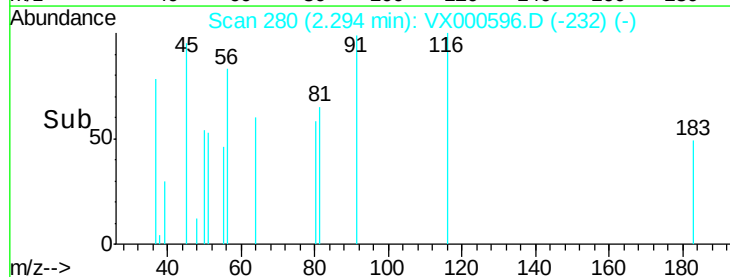
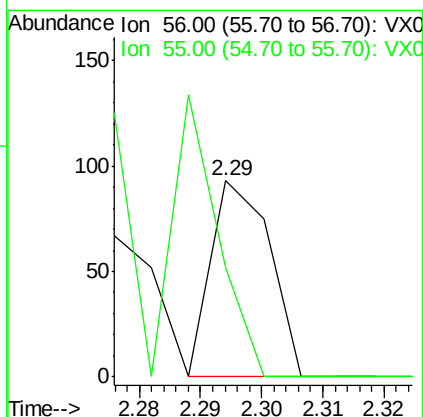
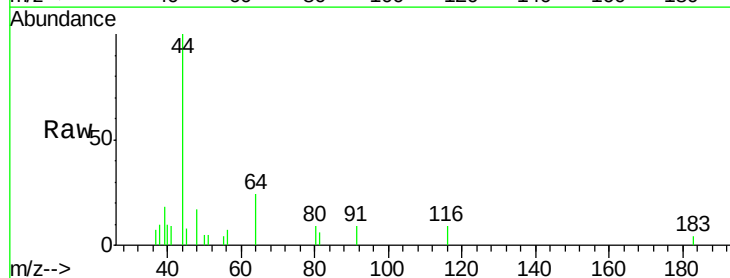
Instrument :
MSVOA_X
ClientSampled :

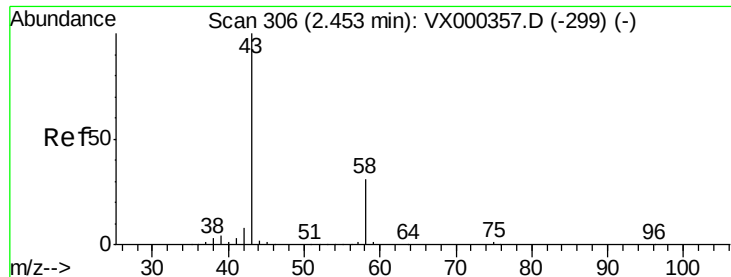
Tot Ion: 59 Resp: 193
Ion Ratio Lower Upper
59 100
57 9.8 8.4 12.6



#13
Acrolein
Concen: 14.910 ug/l
RT: 2.29 min Scan# 280
Delta R.T. -0.01 min
Lab File: VX000596.D
Acq: 31 Mar 2018 16:34

Tgt Ion: 56 Resp: 61
Ion Ratio Lower Upper
56 100
55 0.0 58.8 88.2#





#16

Acetone

Concen: 5.802 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX000596.D

Acq: 31 Mar 2018 16:34

Instrument :

MSVOA_X

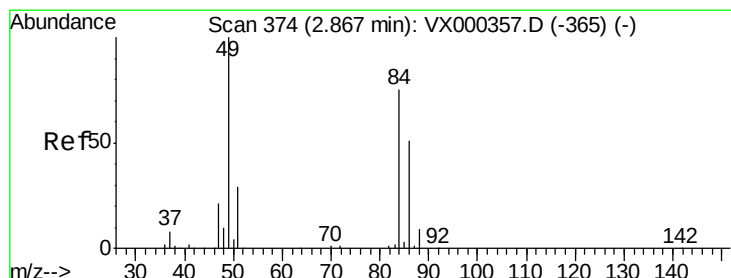
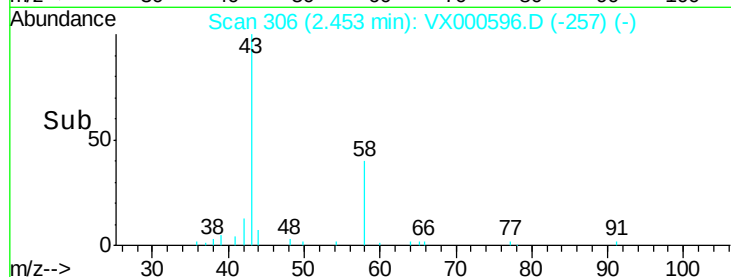
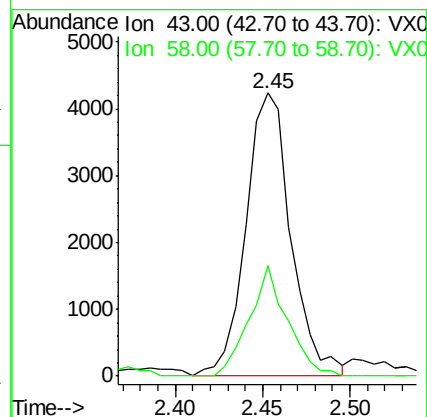
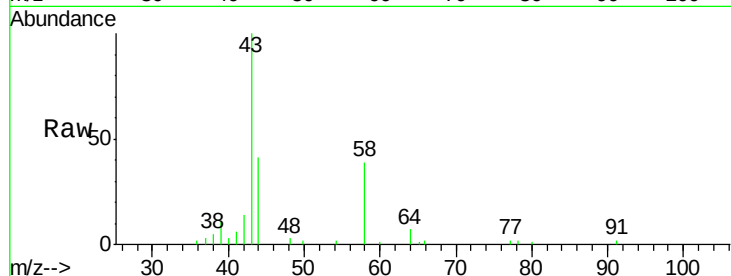
ClientSampleId :

Tot Ion: 43 Resp: 7611

Ion Ratio Lower Upper

43 100

58 38.9 24.7 37.1#



#20

Methylene Chloride

Concen: 1.254 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.01 min

Lab File: VX000596.D

Acq: 31 Mar 2018 16:34

Tgt Ion: 84 Resp: 1900

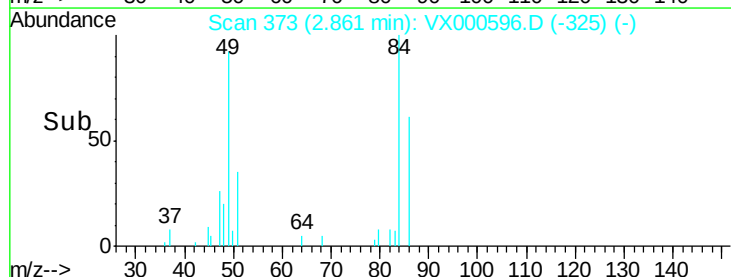
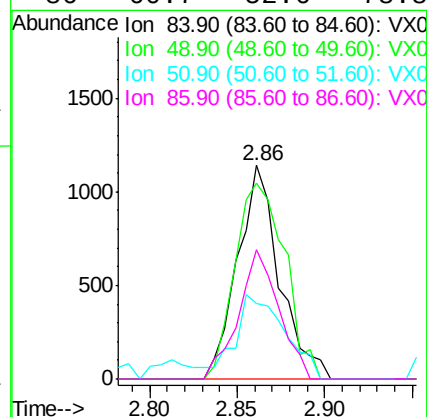
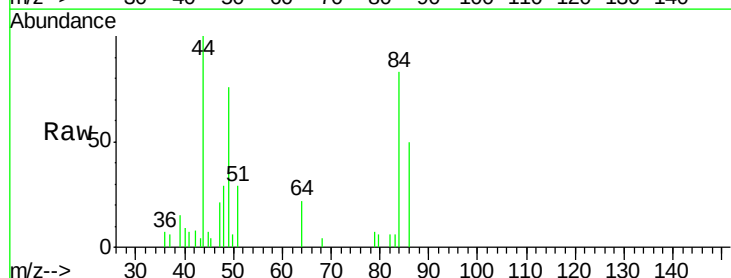
Ion Ratio Lower Upper

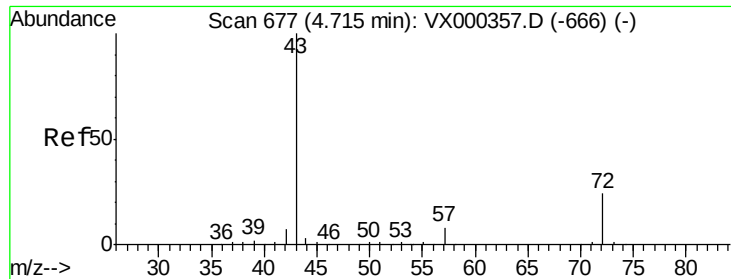
84 100

49 91.8 100.6 151.0#

51 35.1 31.6 47.4

86 60.7 52.6 78.8





#25

2-Butanone

Concen: 0.767 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX000596.D

Acq: 31 Mar 2018 16:34

Instrument :

MSVOA_X

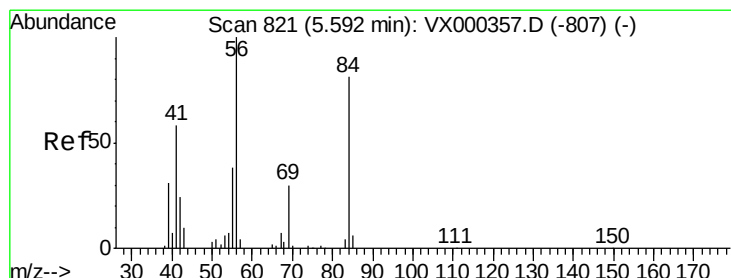
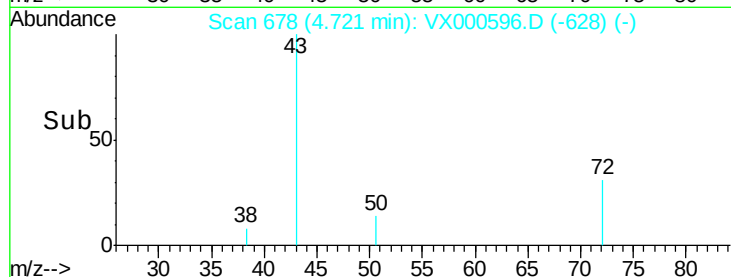
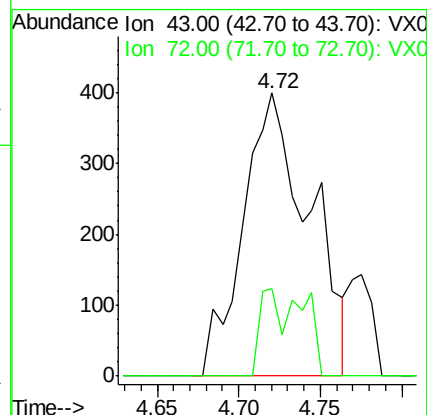
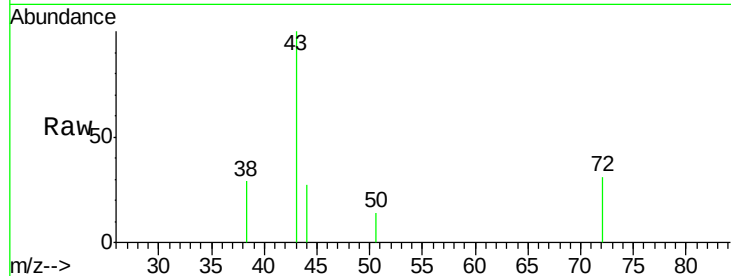
ClientSampleId :

Tot Ion: 43 Resp: 1131

Ion Ratio Lower Upper

43 100

72 31.1 21.0 31.6



#31

Cyclohexane

Concen: 1.482 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.07 min

Lab File: VX000596.D

Acq: 31 Mar 2018 16:34

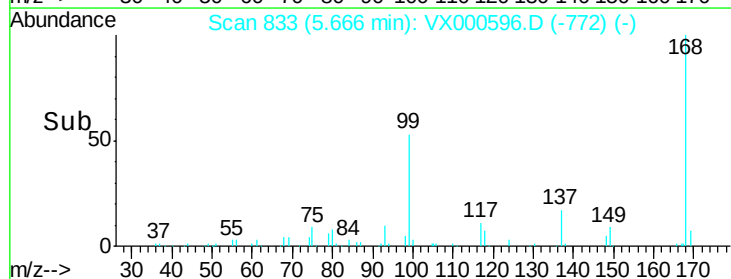
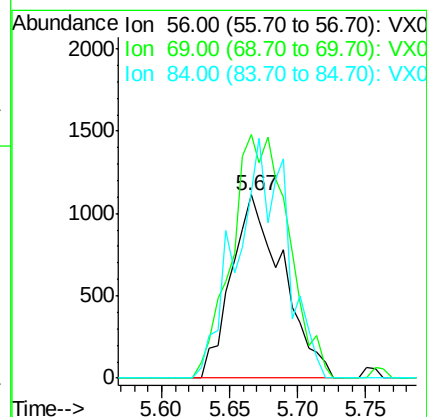
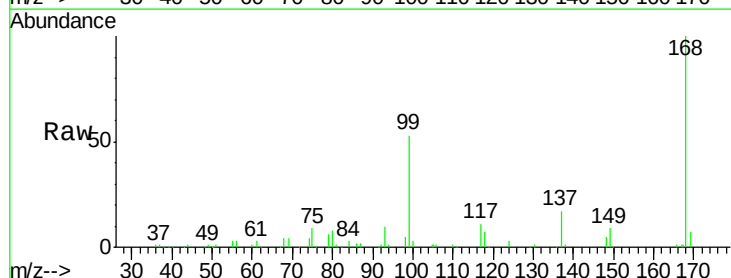
Tgt Ion: 56 Resp: 2948

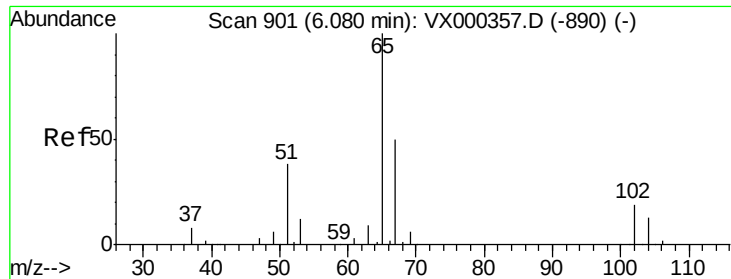
Ion Ratio Lower Upper

56 100

69 133.0 23.4 35.0#

84 101.6 71.0 106.4

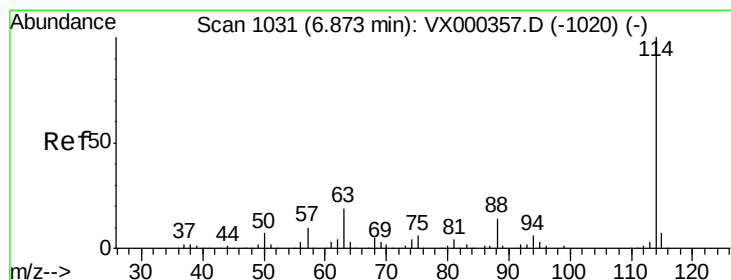
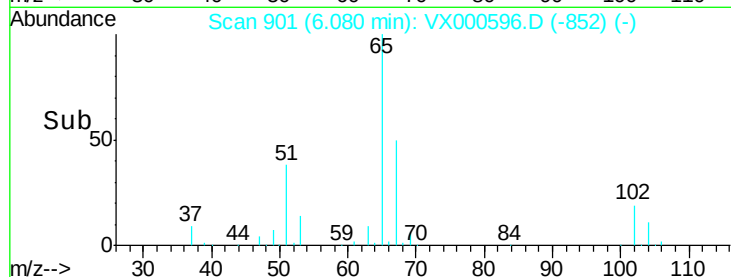
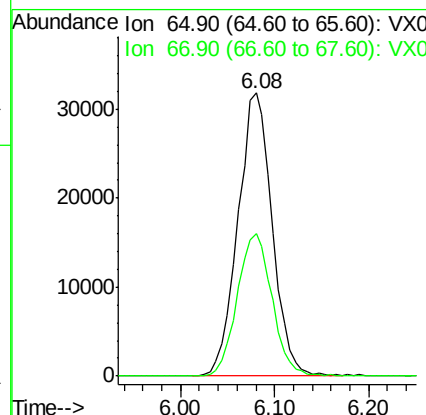
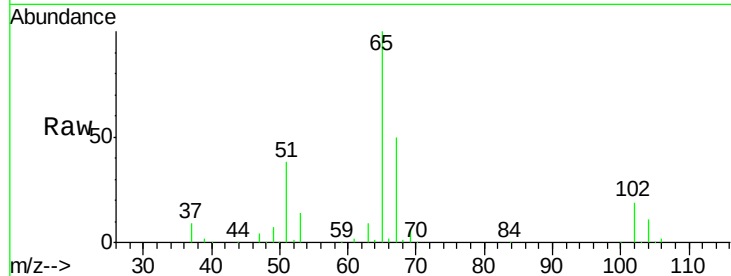




#33
 1,2-Dichloroethane-d4
 Concen: 51.323 ug/l
 RT: 6.08 min Scan# 901
 Delta R.T. 0.00 min
 Lab File: VX000596.D
 Acq: 31 Mar 2018 16:34

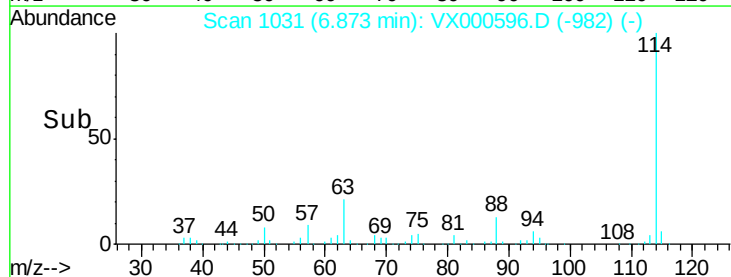
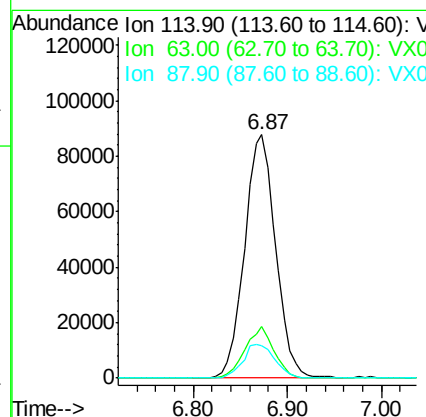
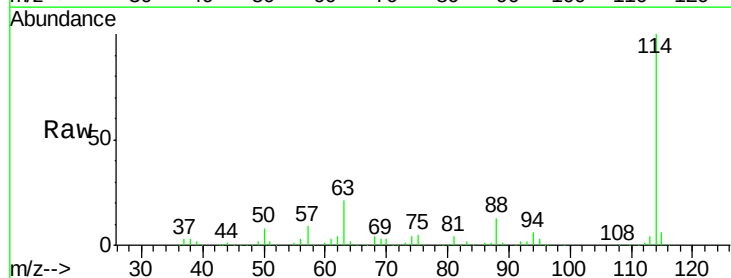
Instrument :
 MSVOA_X
 ClientSampleId :

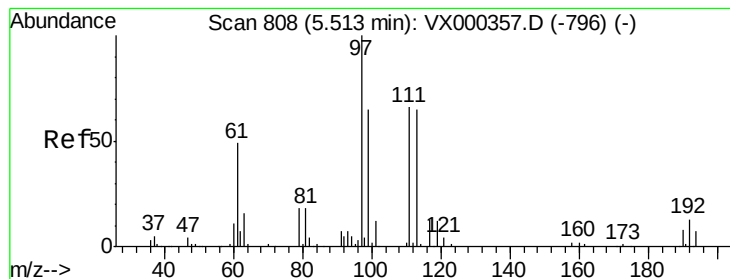
Tot Ion: 65 Resp: 80937
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 103.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. -0.00 min
 Lab File: VX000596.D
 Acq: 31 Mar 2018 16:34

Tgt Ion: 114 Resp: 202468
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 38.4
 88 13.4 0.0 27.0





#35

Dibromofluoromethane

Concen: 48.743 ug/l

RT: 5.52 min Scan# 809

Delta R.T. 0.01 min

Lab File: VX000596.D

Acq: 31 Mar 2018 16:34

Instrument :

MSVOA_X

ClientSampleId :

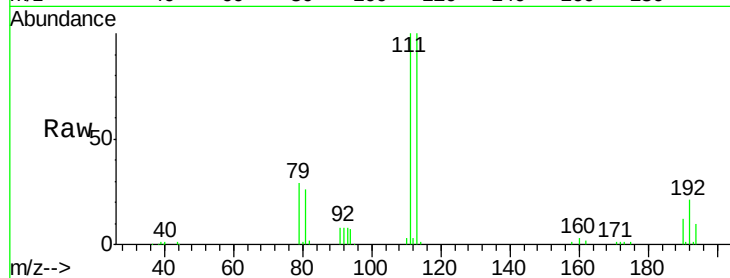
Tot Ion:113 Resp: 62182

Ion Ratio Lower Upper

113 100

111 103.2 82.4 123.6

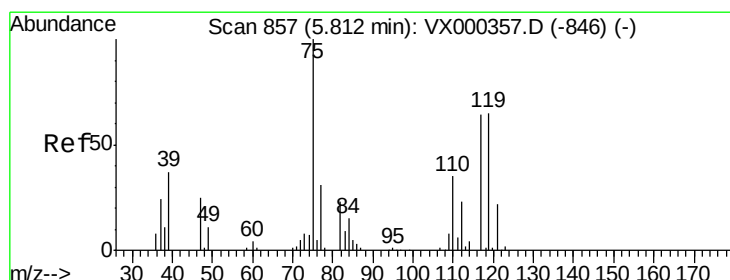
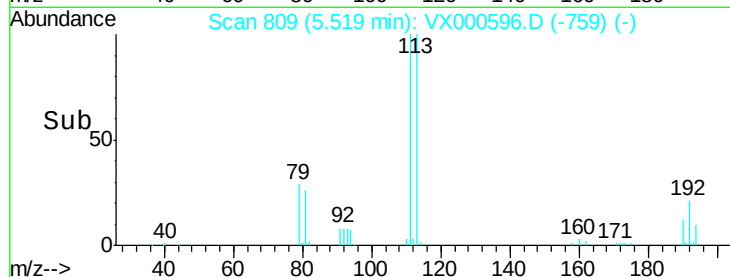
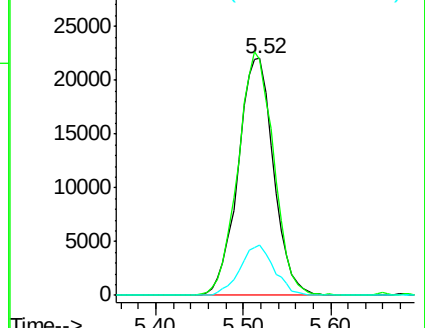
192 20.3 15.8 23.6



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: 5.012 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.15 min

Lab File: VX000596.D

Acq: 31 Mar 2018 16:34

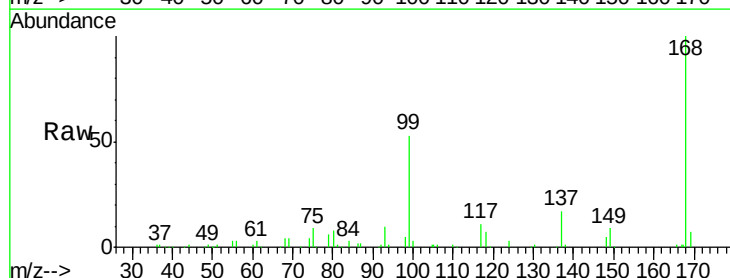
Tgt Ion: 75 Resp: 9506

Ion Ratio Lower Upper

75 100

110 10.1 17.9 53.7#

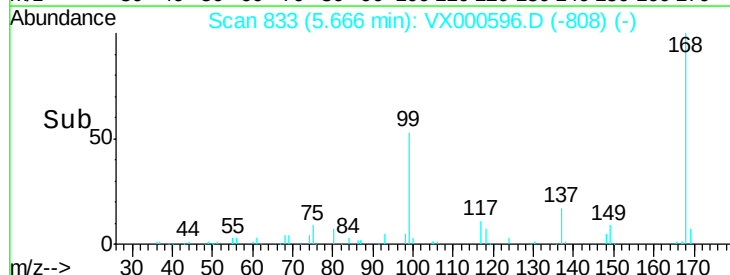
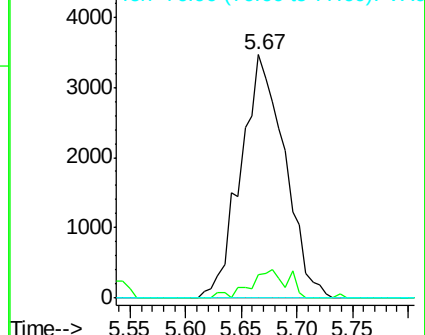
77 0.0 24.0 36.0#

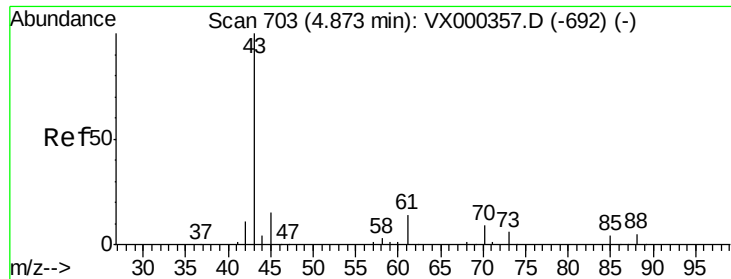


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 0.437 ug/l

RT: 4.72 min Scan# 678

Delta R.T. -0.15 min

Lab File: VX000596.D

Acq: 31 Mar 2018 16:34

Instrument :

MSVOA_X

ClientSampled :

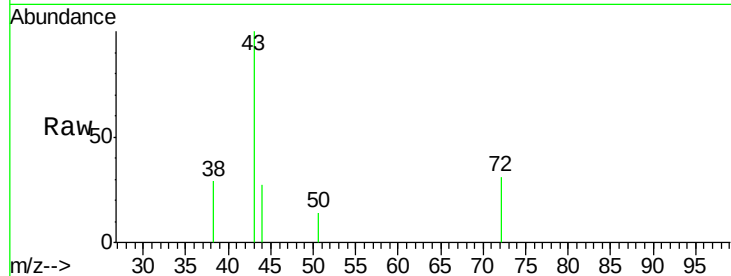
Tot Ion: 43 Resp: 1131

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

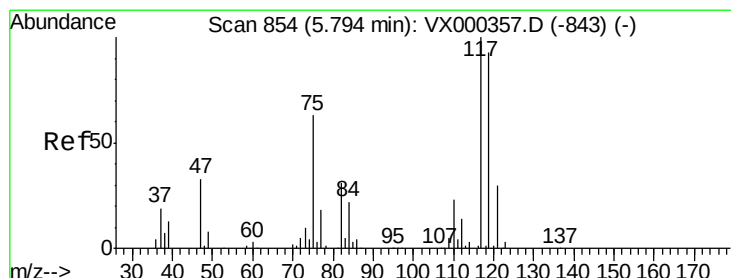
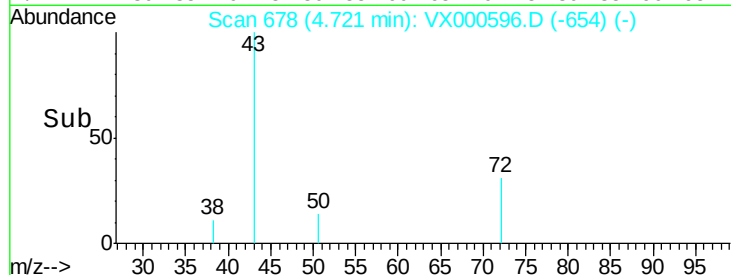
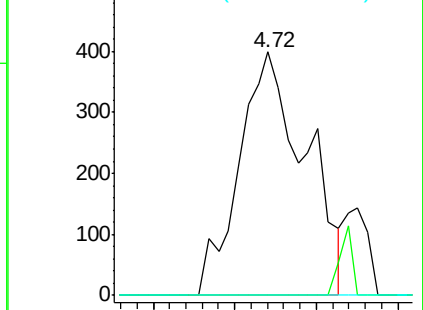
70 0.0 7.7 11.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 6.125 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX000596.D

Acq: 31 Mar 2018 16:34

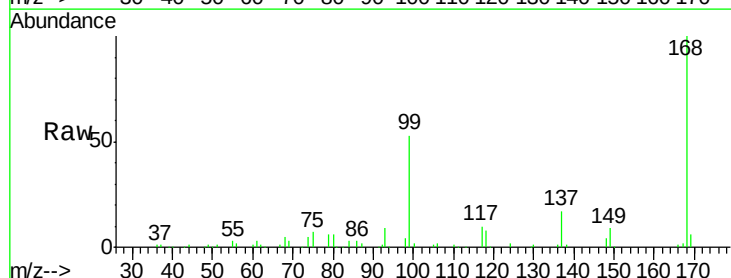
Tgt Ion: 117 Resp: 12186

Ion Ratio Lower Upper

117 100

119 4.5 77.4 116.2#

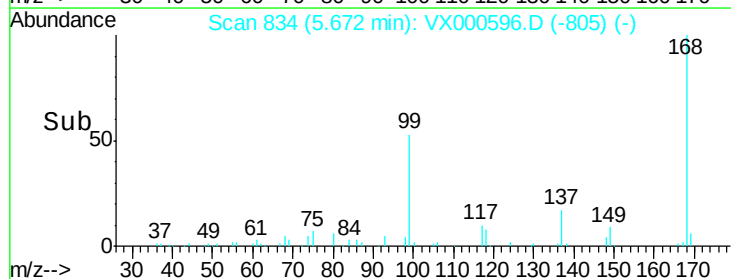
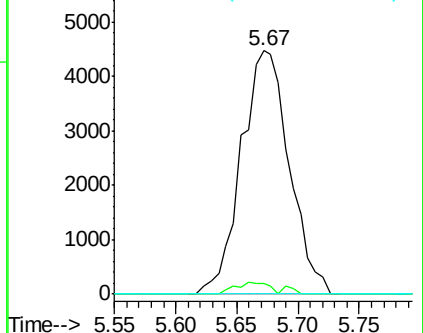
121 0.0 24.8 37.2#

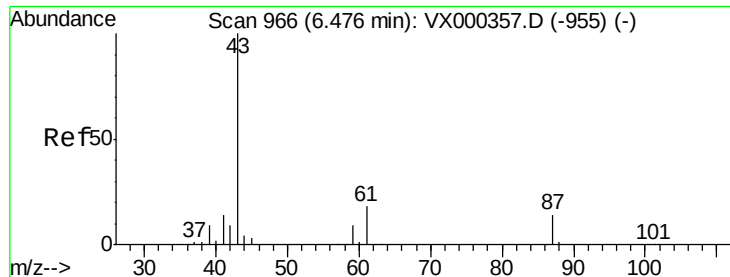


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 0.388 ug/l

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX000596.D

Acq: 31 Mar 2018 16:34

Instrument :

MSVOA_X

ClientSampleId :

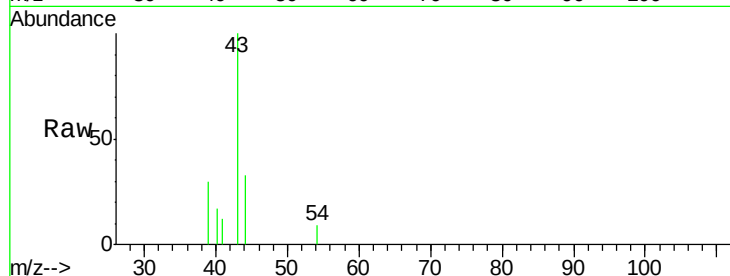
Tot Ion: 43 Resp: 1495

Ion Ratio Lower Upper

43 100

61 8.2 14.4 21.6#

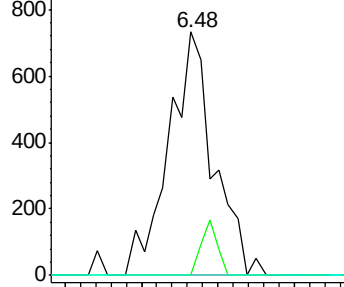
87 0.0 11.0 16.4#



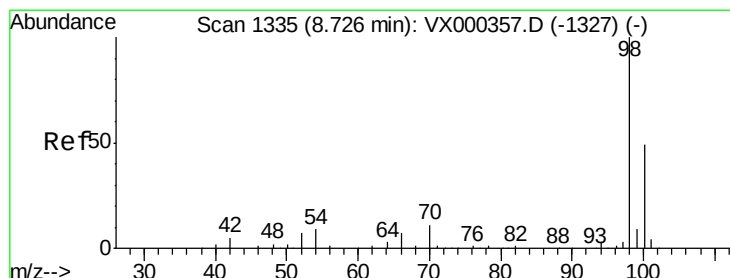
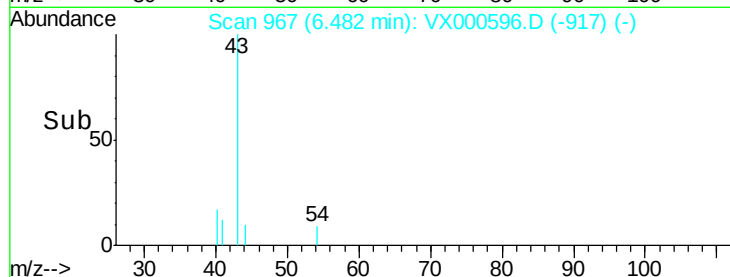
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



Time-->



#50

Toluene-d8

Concen: 48.551 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.01 min

Lab File: VX000596.D

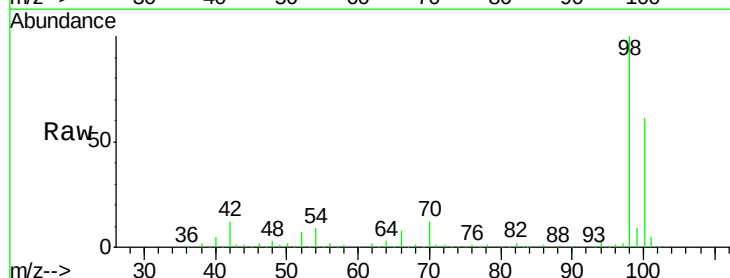
Acq: 31 Mar 2018 16:34

Tgt Ion: 98 Resp: 256522

Ion Ratio Lower Upper

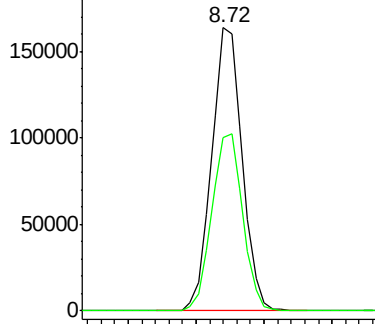
98 100

100 63.6 51.2 76.8

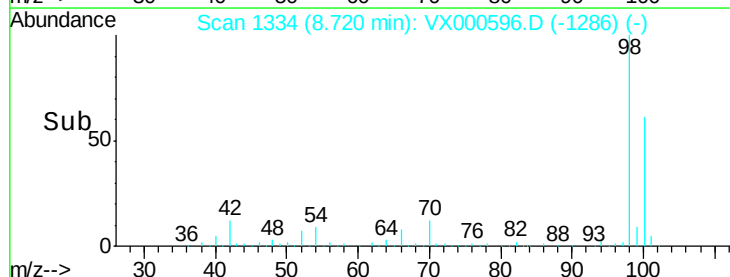


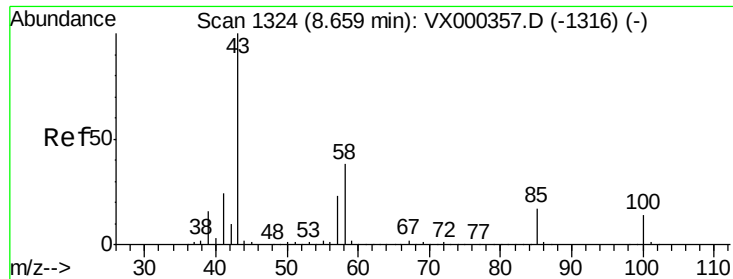
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.294 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VX000596.D

Acq: 31 Mar 2018 16:34

Instrument :

MSVOA_X

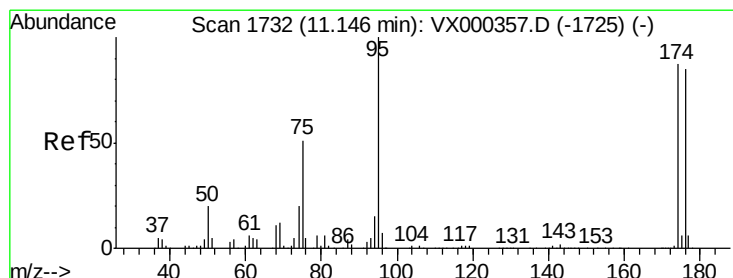
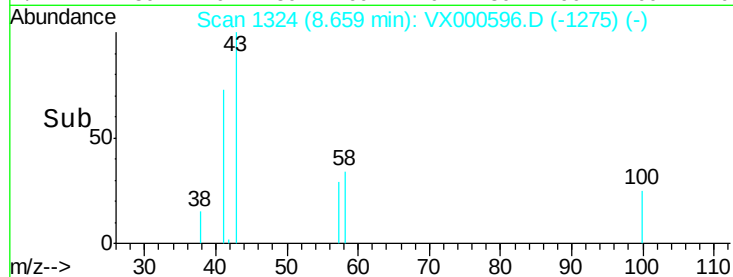
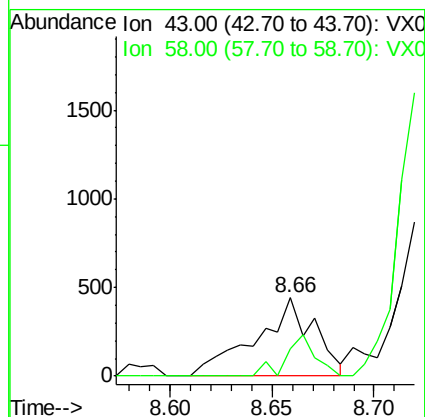
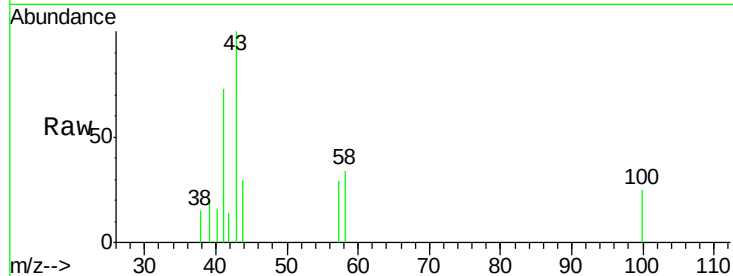
ClientSampleId :

Tot Ion: 43 Resp: 877

Ion Ratio Lower Upper

43 100

58 26.5 30.3 45.5#



#62

4-Bromofluorobenzene

Concen: 41.732 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000596.D

Acq: 31 Mar 2018 16:34

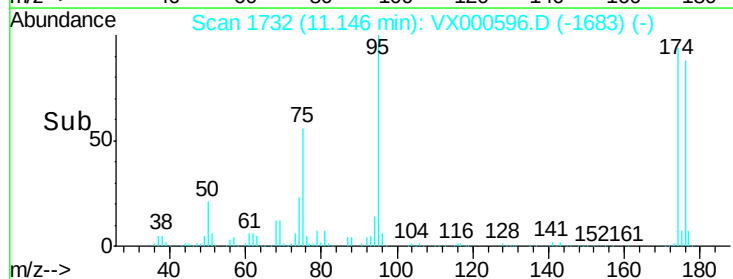
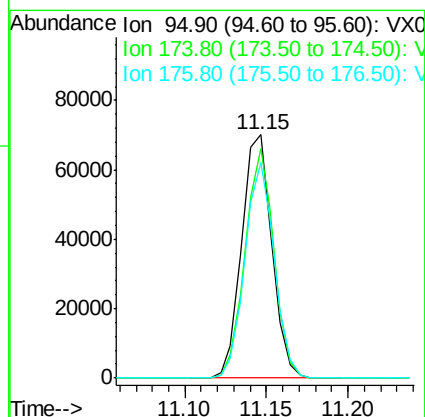
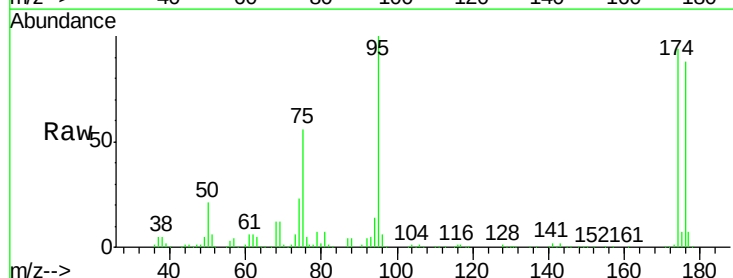
Tgt Ion: 95 Resp: 90574

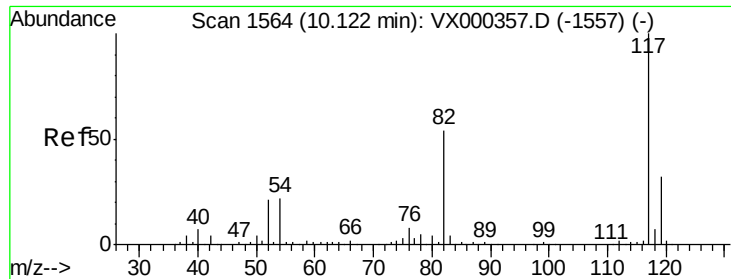
Ion Ratio Lower Upper

95 100

174 90.7 0.0 173.6

176 86.0 0.0 164.6

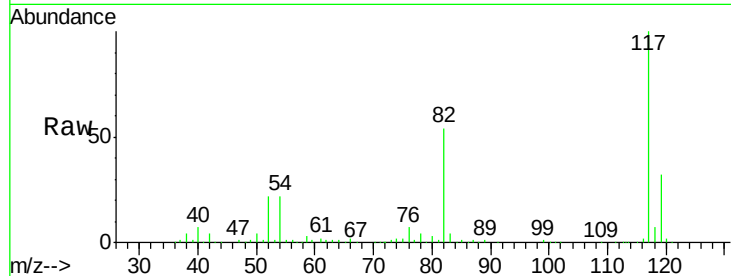




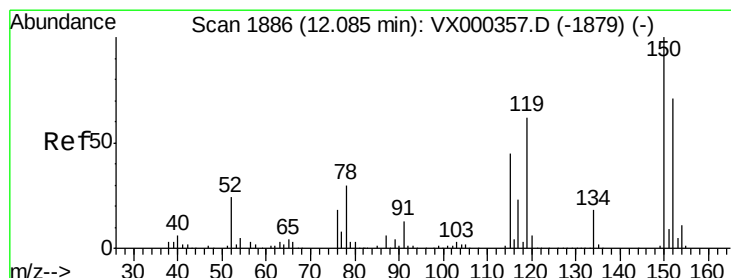
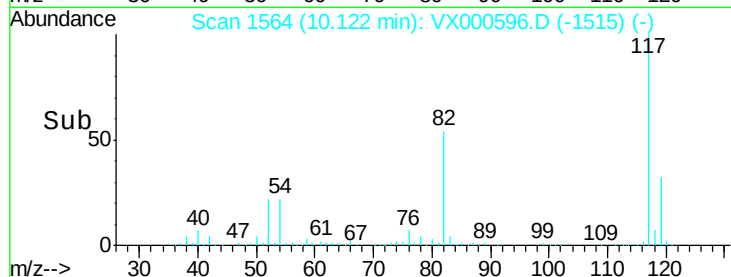
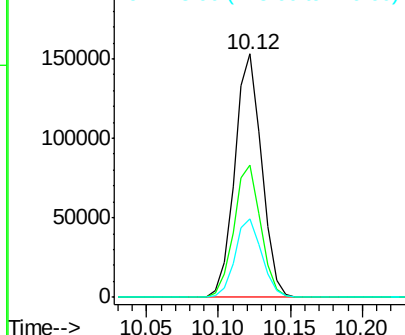
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000596.D
Acq: 31 Mar 2018 16:34

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 199510
Ion Ratio Lower Upper
117 100
82 54.3 43.8 65.8
119 32.5 24.9 37.3

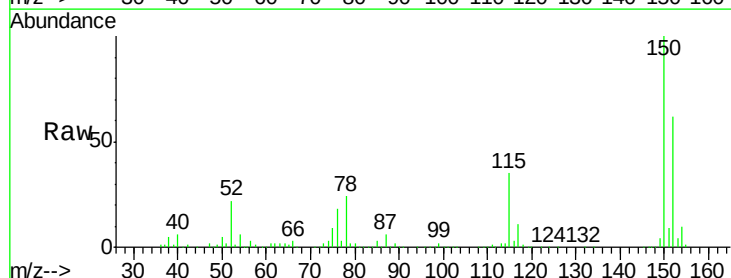


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX
Ion 118.90 (118.60 to 119.60): V

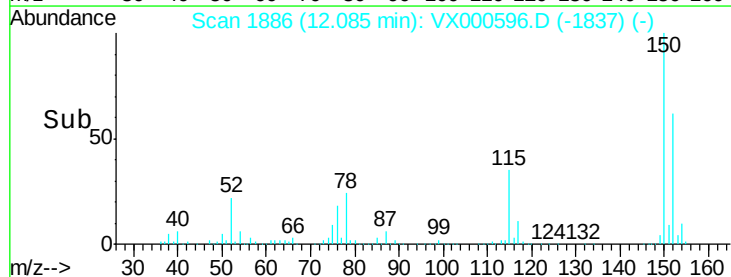
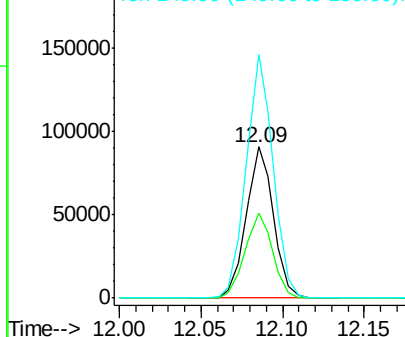


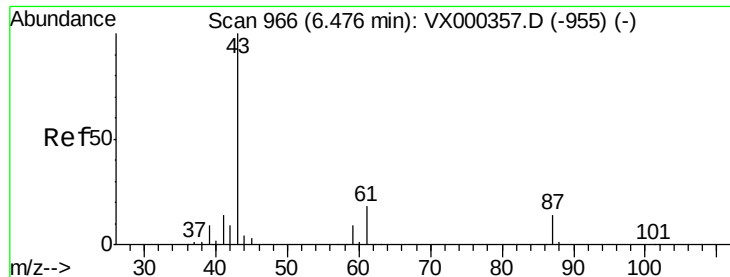
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX000596.D
Acq: 31 Mar 2018 16:34

Tgt Ion:152 Resp: 105784
Ion Ratio Lower Upper
152 100
115 57.0 39.8 119.3
150 159.5 0.0 344.4



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





#74

N-amvl acetate

Concen: Below Cal

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX000596.D

Acq: 31 Mar 2018 16:34

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 1495

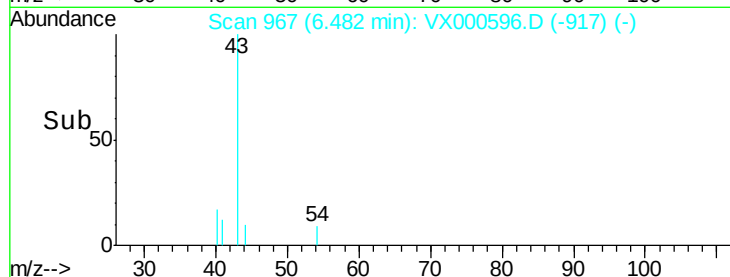
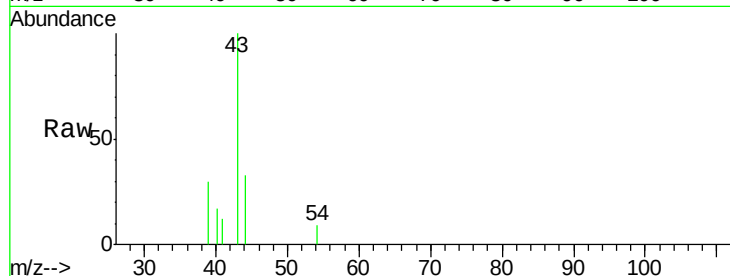
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0

61 8.2 14.4 21.6#

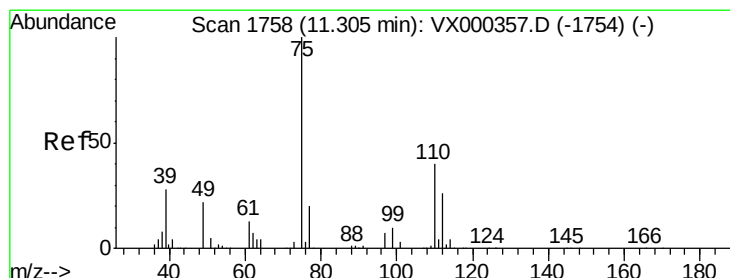
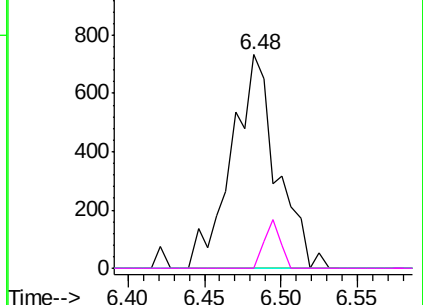


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 23.036 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000596.D

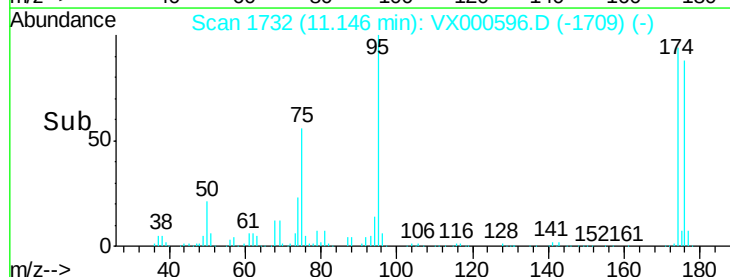
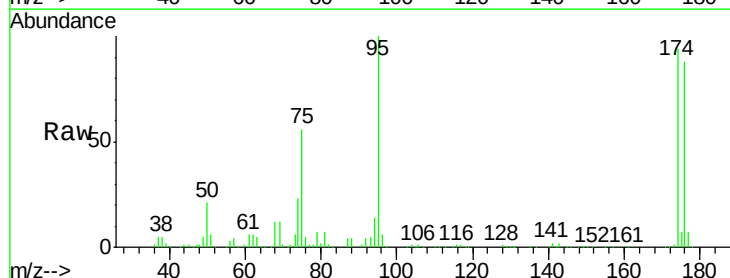
Acq: 31 Mar 2018 16:34

Tgt Ion: 75 Resp: 52371

Ion Ratio Lower Upper

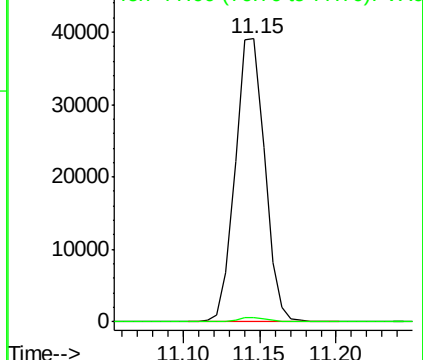
75 100

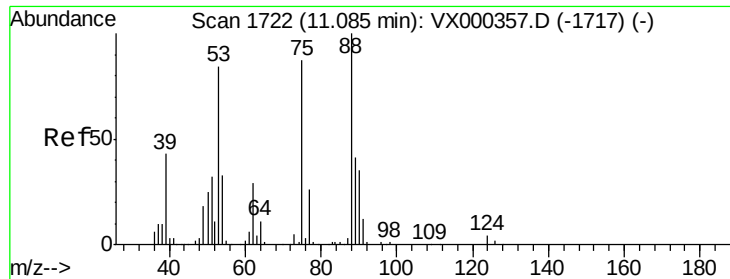
77 1.5 21.4 64.2#



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: 74.582 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.06 min

Lab File: VX000596.D

Acq: 31 Mar 2018 16:34

Instrument :

MSVOA_X

ClientSampled :

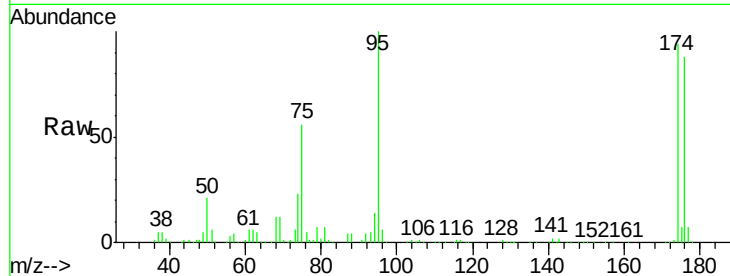
Tot Ion: 75 Resp: 52371

Ion Ratio Lower Upper

75 100

53 0.0 80.7 121.1#

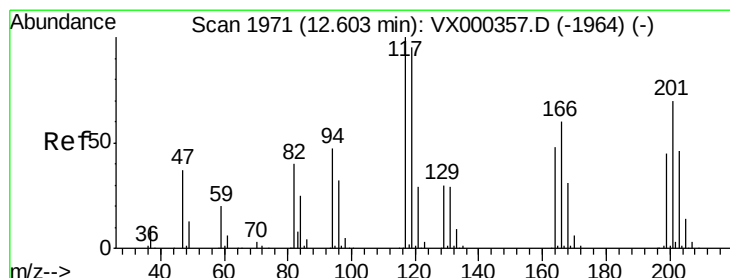
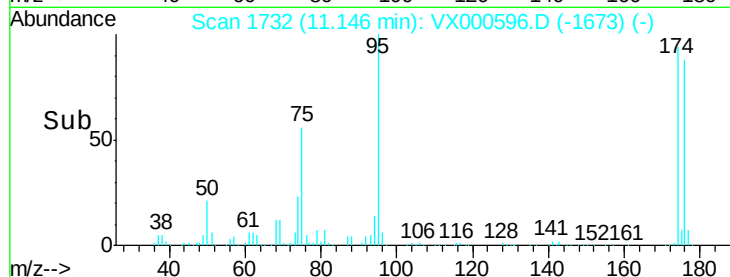
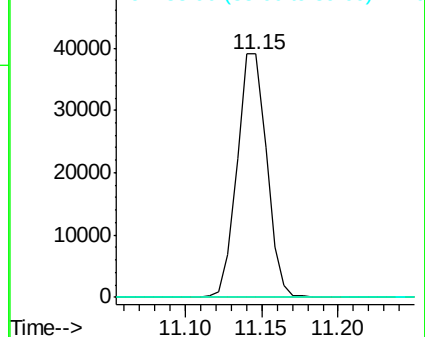
89 0.1 39.4 59.0#



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



#90

Hexachloroethane

Concen: 0.268 ug/l

RT: 12.76 min Scan# 1996

Delta R.T. 0.15 min

Lab File: VX000596.D

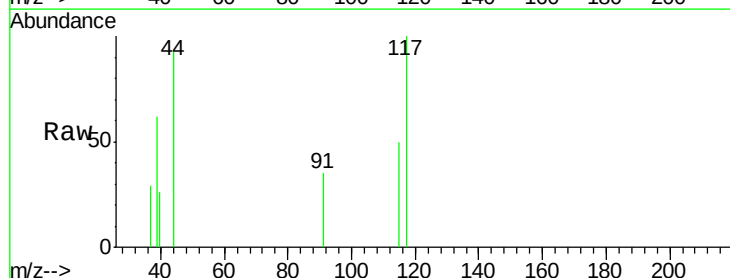
Acq: 31 Mar 2018 16:34

Tgt Ion: 117 Resp: 276

Ion Ratio Lower Upper

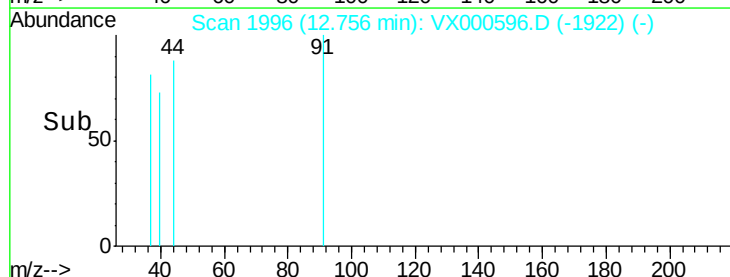
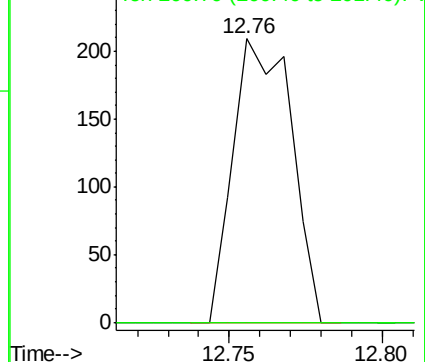
117 100

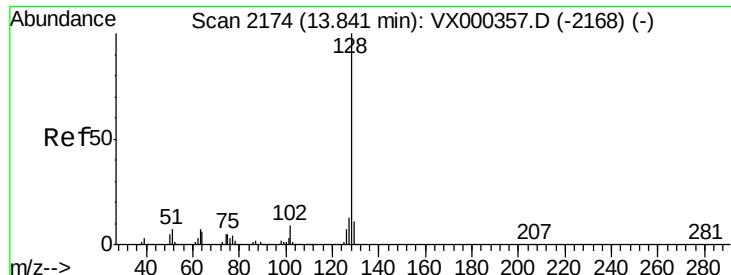
201 0.0 37.9 113.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#95
Naphthalene
Concen: 0.757 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. -0.00 min
Lab File: VX000596.D
Acq: 31 Mar 2018 16:34

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.6	15.8
129	9.1	8.9	13.3

