

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX042318\
 Data File : VX001065.D
 Acq On : 23 Apr 2018 18:01
 Operator : JC/MD
 Sample : J2464-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF017MW005-180417

Quant Time: Apr 24 07:03:48 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 20 05:03:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	198503	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	273038	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	234533	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	123024	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	127811	50.79	ug/l	0.00
Spiked Amount 50.000			Recovery =	101.58%		
35) Dibromofluoromethane	5.51	113	98782	47.45	ug/l	0.00
Spiked Amount 50.000			Recovery =	94.90%		
50) Toluene-d8	8.72	98	375208	48.74	ug/l	0.00
Spiked Amount 50.000			Recovery =	97.48%		
62) 4-Bromofluorobenzene	11.14	95	125019	38.69	ug/l	0.00
Spiked Amount 50.000			Recovery =	77.38%		

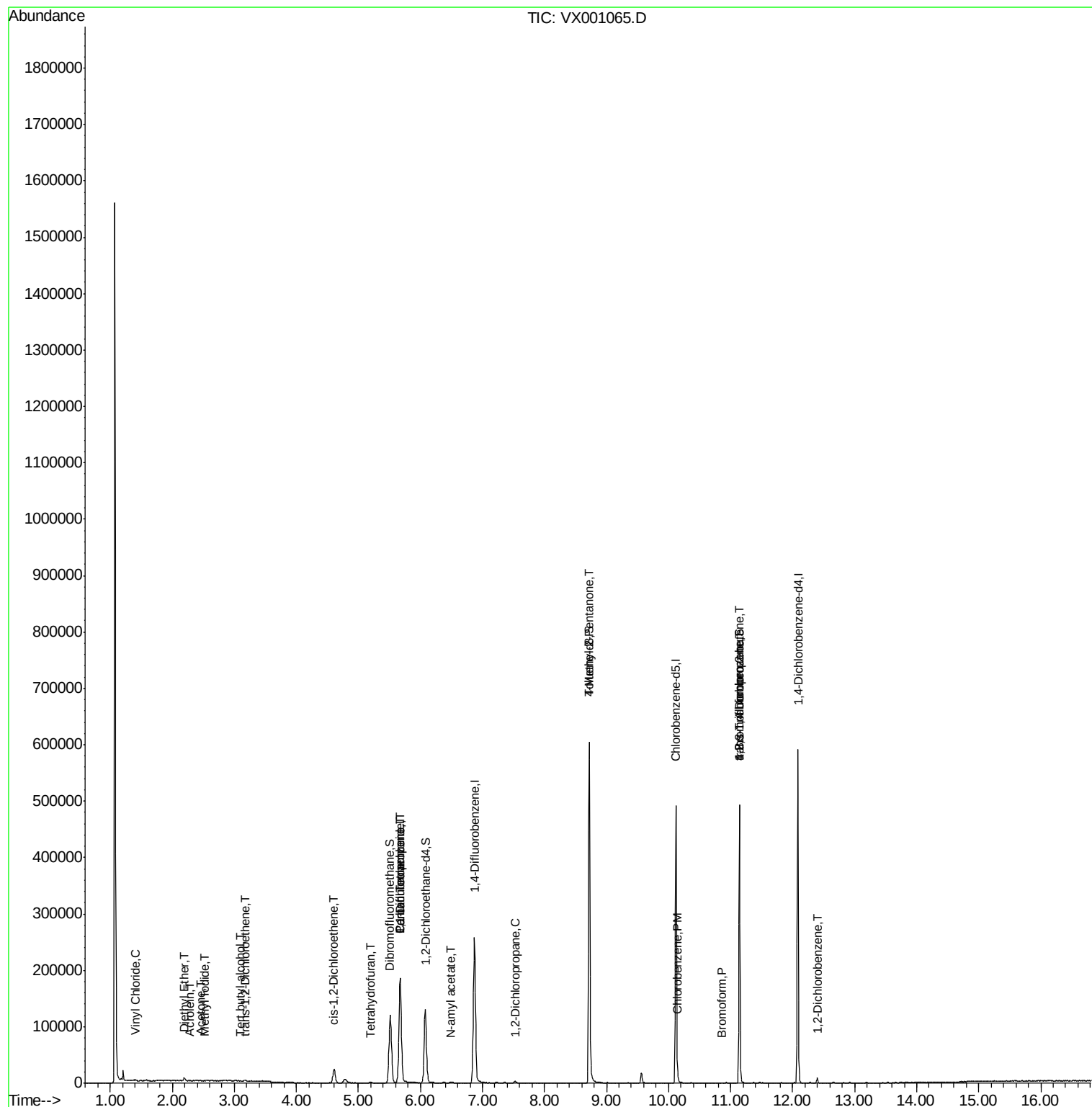
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	1366	0.57	ug/l	# 86
5) Bromomethane	1.65	94	216	Below Cal		83
8) Diethyl Ether	2.20	74	2376	1.80	ug/l	96
10) Methyl Iodide	2.52	142	40	7.62	ug/l	# 41
11) Tert butyl alcohol	3.09	59	557	1.47	ug/l	# 75
13) Acrolein	2.28	56	93	11.69	ug/l	# 79
16) Acetone	2.45	43	1081	1.14	ug/l	94
20) Methylene Chloride	2.87	84	256	Below Cal		# 33
21) trans-1,2-Dichloroethene	3.17	96	537	0.25	ug/l	# 78
27) cis-1,2-Dichloroethene	4.60	96	15492	6.46	ug/l	87
29) Tetrahydrofuran	5.19	42	612	0.65	ug/l	# 76
36) 1,1-Dichloropropene	5.67	75	12582	3.92	ug/l	# 49
38) Carbon Tetrachloride	5.67	117	17229	5.30	ug/l	# 17
45) 1,2-Dichloropropane	7.53	63	907	0.40	ug/l	# 77
51) 4-Methyl-2-Pentanone	8.71	43	1967	0.64	ug/l	# 1
65) Chlorobenzene	10.15	112	2349	0.38	ug/l	96
71) Bromoform	10.86	173	145	2.80	ug/l	# 28
74) N-amyl acetate	6.49	43	831	0.24	ug/l	# 58
76) 1,2,3-Trichloropropane	11.14	75	63214	29.62	ug/l	# 38
81) trans-1,4-Dichloro-2-buten	11.14	75	63214	88.23	ug/l	# 8
91) 1,2-Dichlorobenzene	12.40	146	2821	0.67	ug/l	92

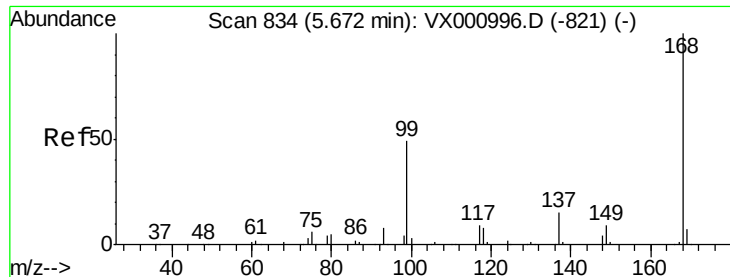
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 24 07:03:48 2018
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Quant Title : SW846 8260
QLast Update : Fri Apr 20 05:03:28 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX001065.D

Acq: 23 Apr 2018 18:01

Instrument :

MSVOA_X

ClientSampleId :

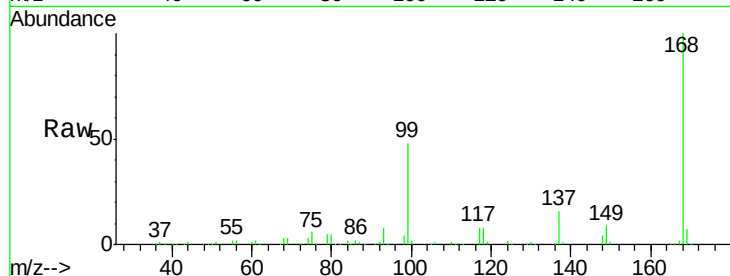
LF017MW005-180417

Tgt Ion: 168 Resp: 198503

Ion Ratio Lower Upper

168 100

99 48.3 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

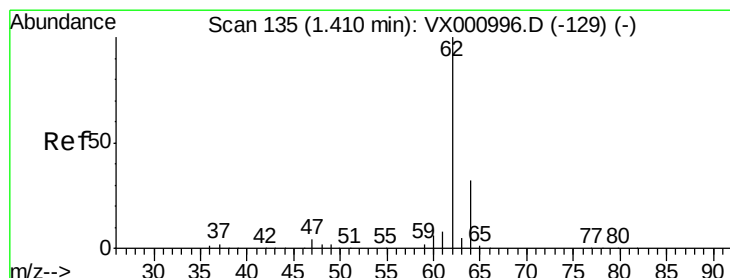
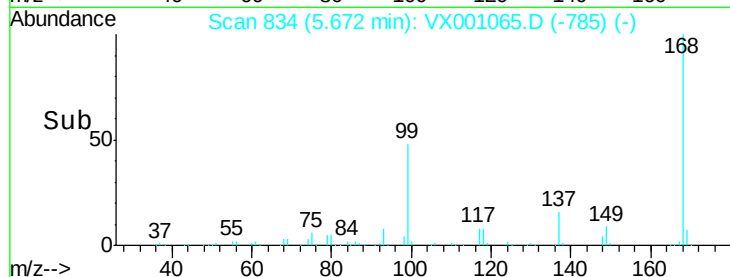
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80 5.90



#4

Vinyl Chloride

Concen: 0.57 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.01 min

Lab File: VX001065.D

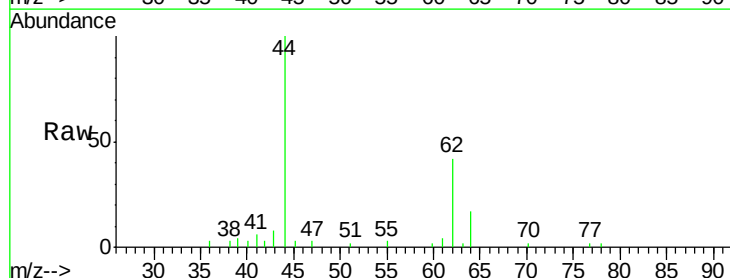
Acq: 23 Apr 2018 18:01

Tgt Ion: 62 Resp: 1366

Ion Ratio Lower Upper

62 100

64 39.9 25.6 38.4#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

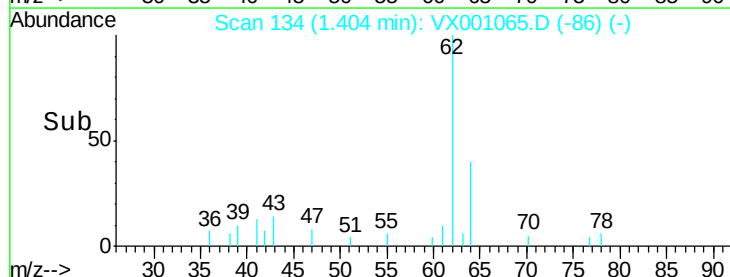
1500

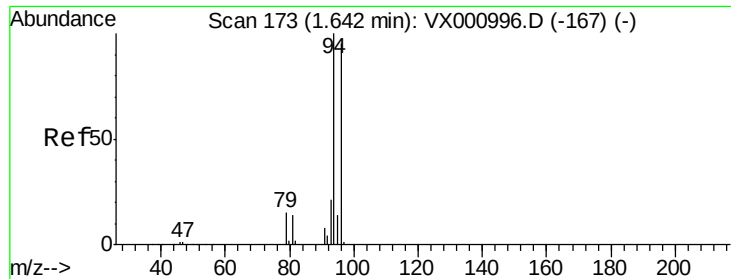
1000

500

0

Time--> 1.35 1.40 1.45





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.01 min

Lab File: VX001065.D

Acq: 23 Apr 2018 18:01

Instrument :

MSVOA_X

ClientSampleId :

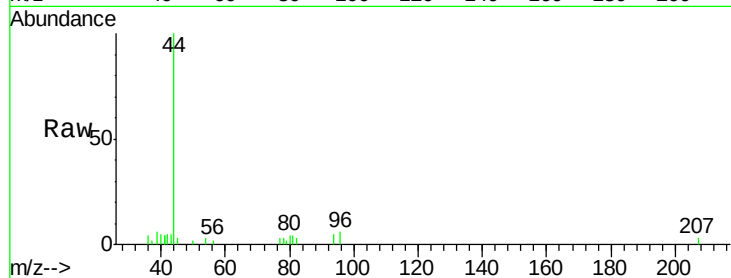
LF017MW005-180417

Tgt Ion: 94 Resp: 216

Ion Ratio Lower Upper

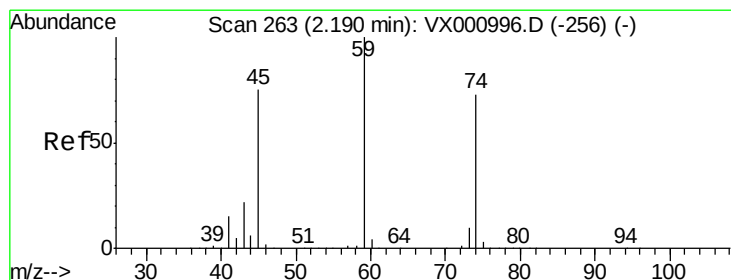
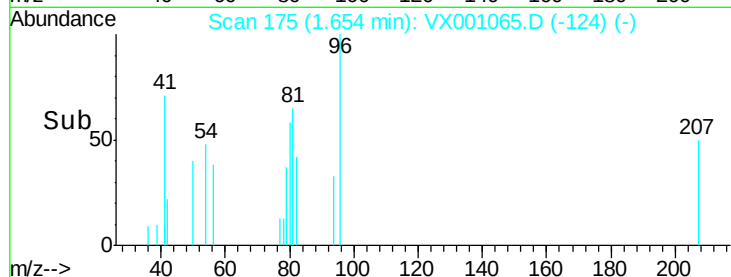
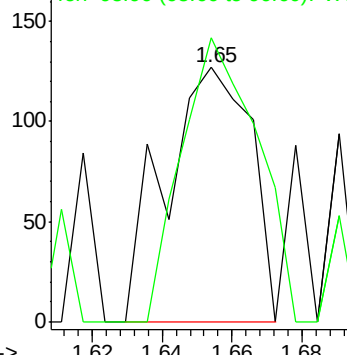
94 100

96 111.8 76.0 114.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#8

Diethyl Ether

Concen: 1.80 ug/l

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX001065.D

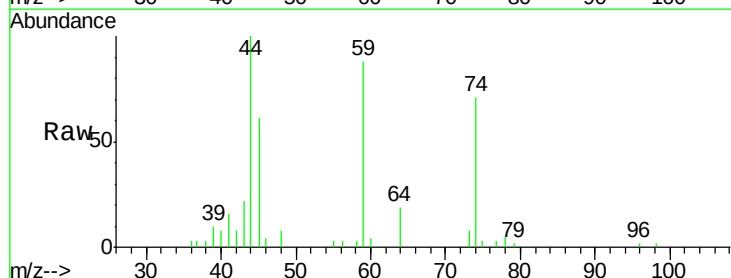
Acq: 23 Apr 2018 18:01

Tgt Ion: 74 Resp: 2376

Ion Ratio Lower Upper

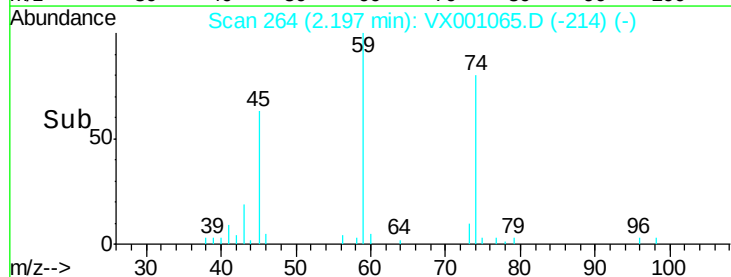
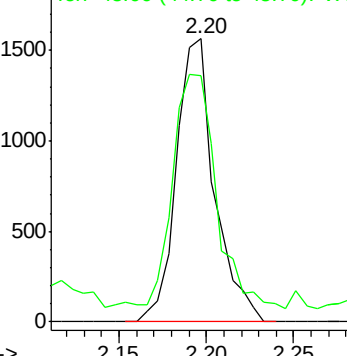
74 100

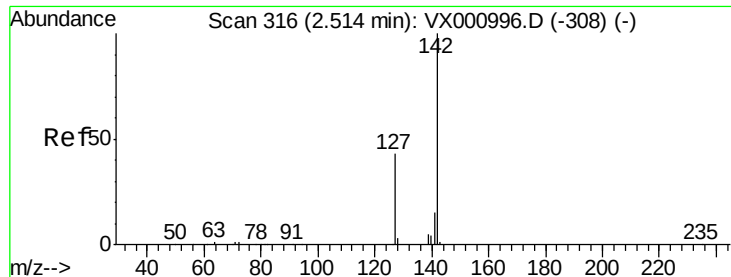
45 94.5 49.0 147.0



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#10

Methyl Iodide

Concen: 7.62 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX001065.D

Acq: 23 Apr 2018 18:01

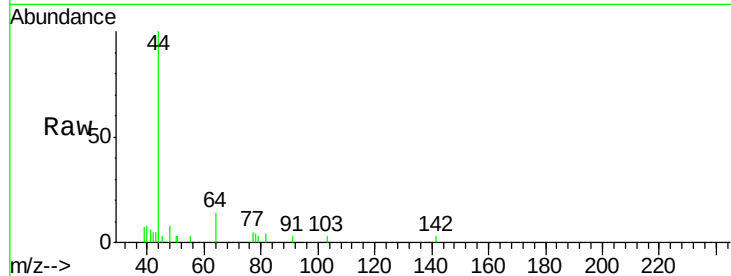
Instrument :

MSVOA_X

ClientSampleId :

LF017MW005-180417

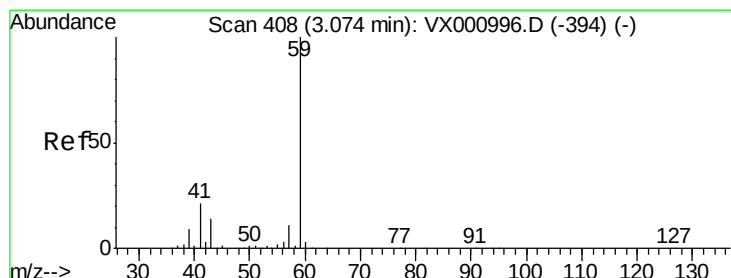
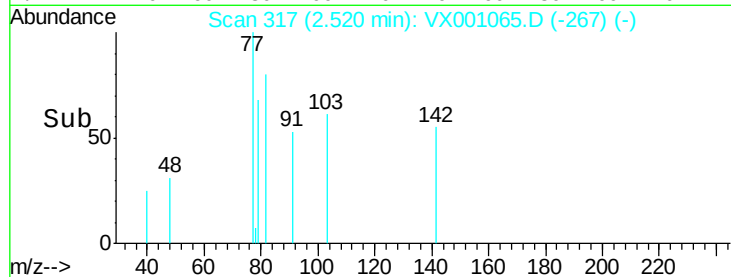
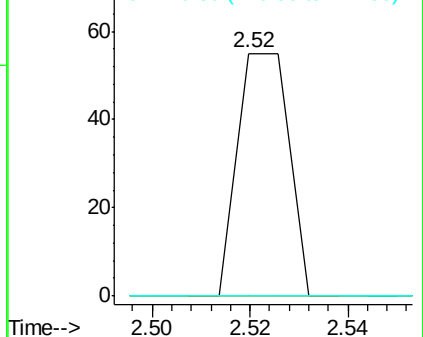
Tgt Ion	Ratio	Lower	Upper
142	100		
127	0.0	34.0	51.0#
141	0.0	11.4	17.2#



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: 1.47 ug/l

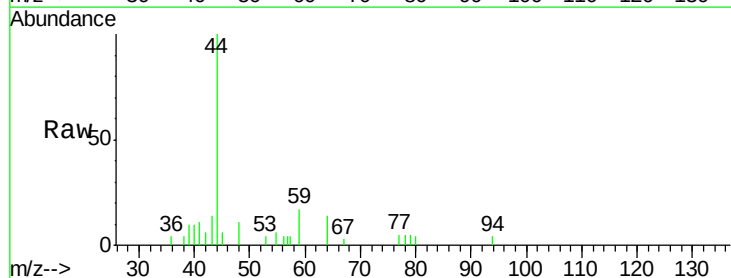
RT: 3.09 min Scan# 410

Delta R.T. 0.01 min

Lab File: VX001065.D

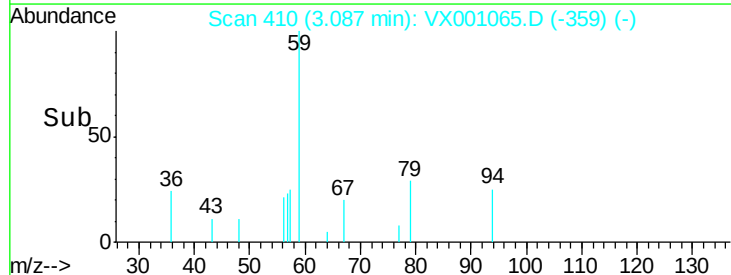
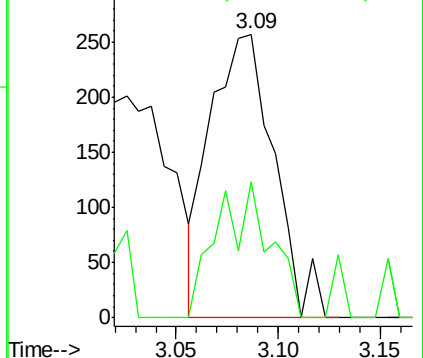
Acq: 23 Apr 2018 18:01

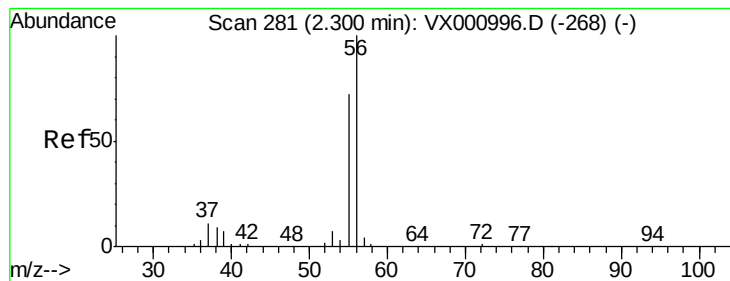
Tgt Ion	Ratio	Lower	Upper
59	100		
57	19.7	8.3	12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 11.69 ug/l

RT: 2.28 min Scan# 278

Delta R.T. -0.02 min

Lab File: VX001065.D

Acq: 23 Apr 2018 18:01

Instrument :

MSVOA_X

ClientSampleId :

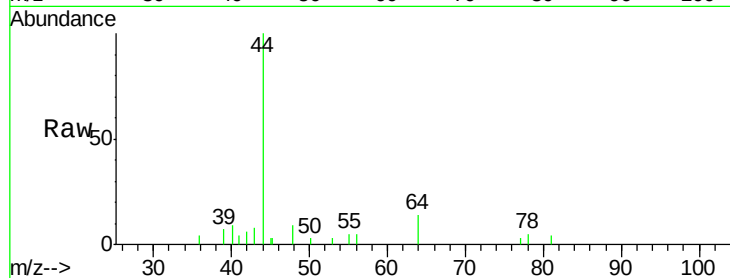
LF017MW005-180417

Tgt Ion: 56 Resp: 93

Ion Ratio Lower Upper

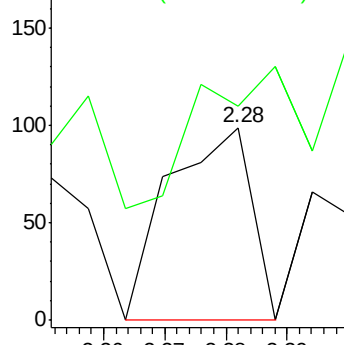
56 100

55 89.2 57.4 86.2#

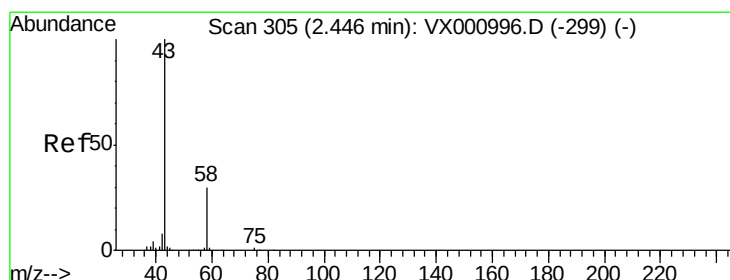
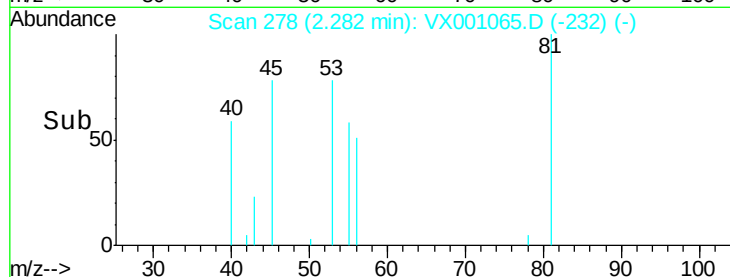


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 1.14 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX001065.D

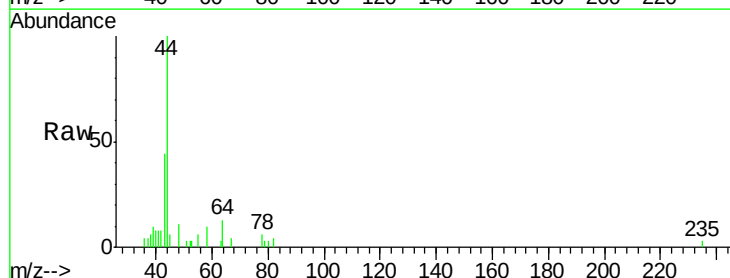
Acq: 23 Apr 2018 18:01

Tgt Ion: 43 Resp: 1081

Ion Ratio Lower Upper

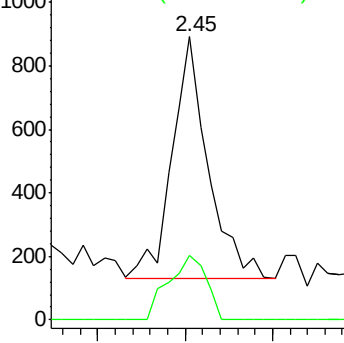
43 100

58 26.5 23.7 35.5

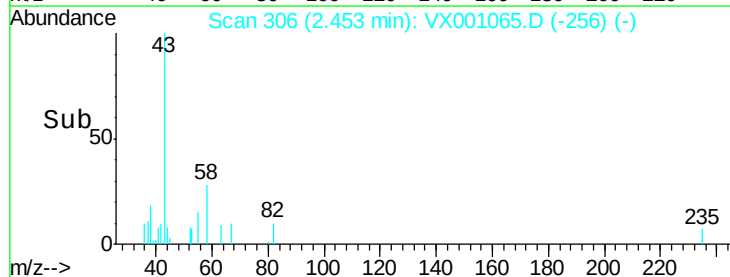


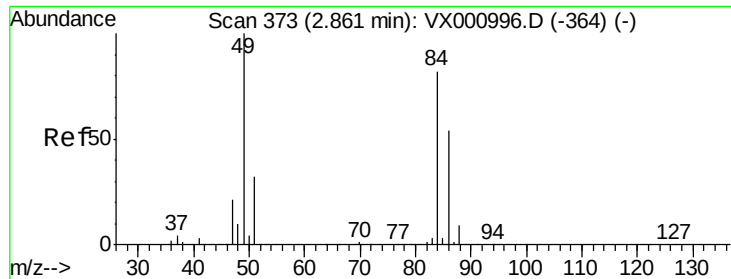
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



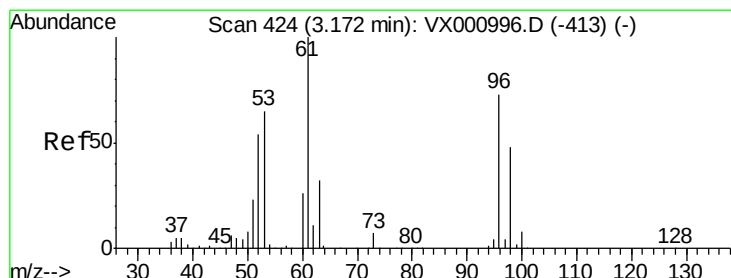
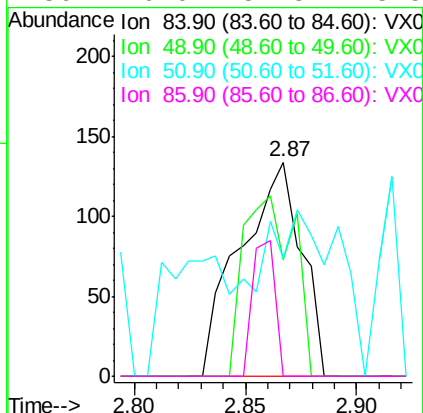
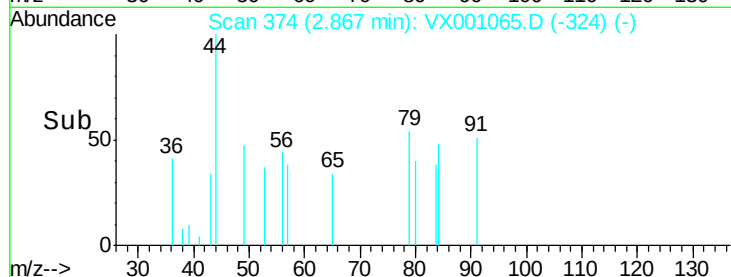
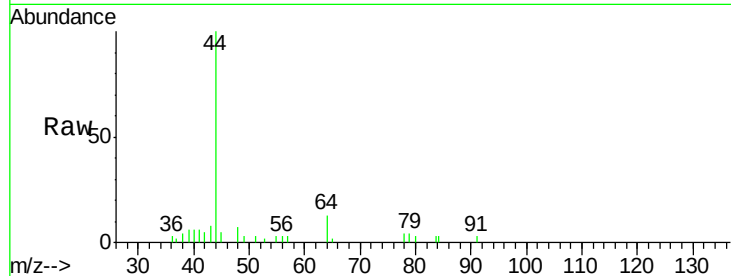


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.87 min Scan# 374
 Delta R.T. 0.01 min
 Lab File: VX001065.D
 Acq: 23 Apr 2018 18:01

Instrument :
 MSVOA_X
 ClientSampleId :
 LF017MW005-180417

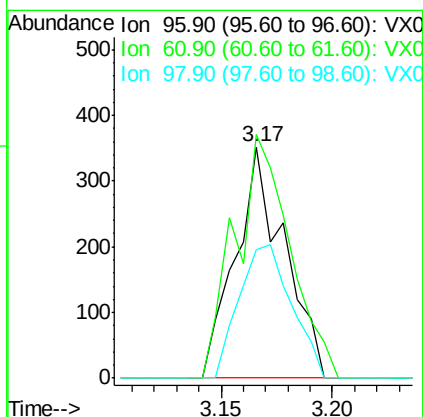
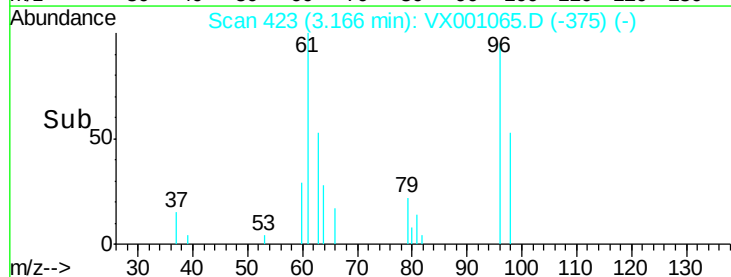
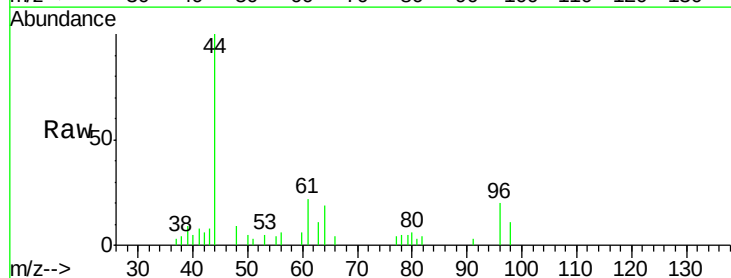
Tgt Ion: 84 Resp: 256
 Ion Ratio Lower Upper
 84 100
 49 54.5 97.1 145.7#
 51 1.5 30.8 46.2#
 86 0.0 52.3 78.5#

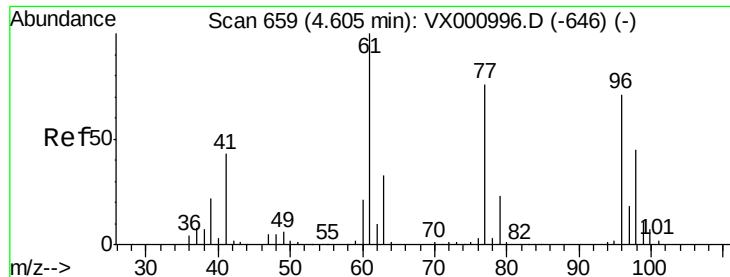


#21

trans-1,2-Dichloroethene
 Concen: 0.25 ug/l
 RT: 3.17 min Scan# 423
 Delta R.T. -0.01 min
 Lab File: VX001065.D
 Acq: 23 Apr 2018 18:01

Tgt Ion: 96 Resp: 537
 Ion Ratio Lower Upper
 96 100
 61 105.4 109.4 164.2#
 98 55.7 52.6 78.8





#27

cis-1,2-Dichloroethene

Concen: 6.46 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.00 min

Lab File: VX001065.D

Acq: 23 Apr 2018 18:01

Instrument :

MSVOA_X

ClientSampleId :

LF017MW005-180417

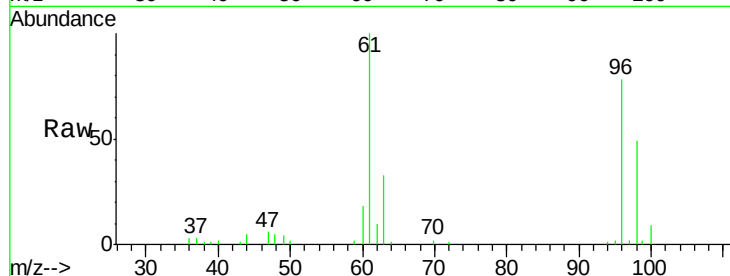
Tgt Ion: 96 Resp: 15492

Ion Ratio Lower Upper

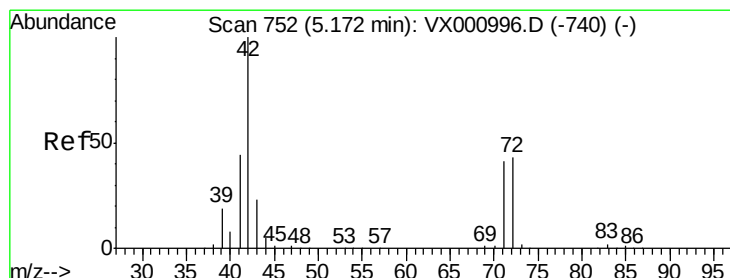
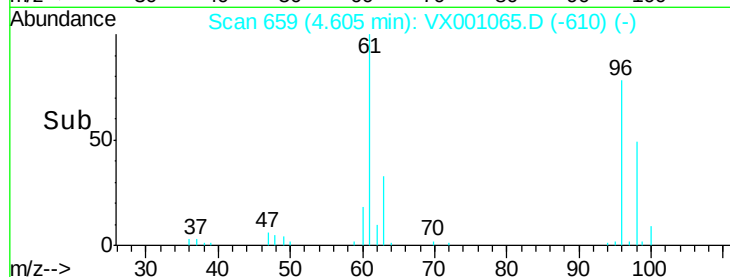
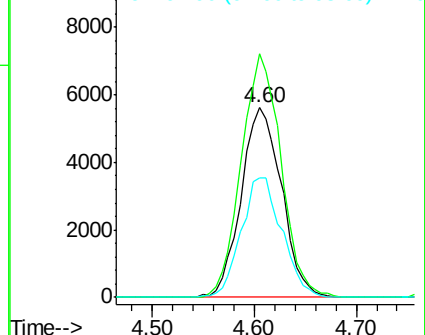
96 100

61 126.1 0.0 297.0

98 63.6 0.0 130.0



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#29

Tetrahydrofuran

Concen: 0.65 ug/l

RT: 5.19 min Scan# 755

Delta R.T. 0.02 min

Lab File: VX001065.D

Acq: 23 Apr 2018 18:01

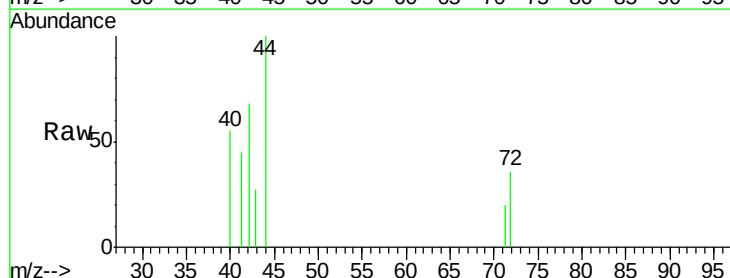
Tgt Ion: 42 Resp: 612

Ion Ratio Lower Upper

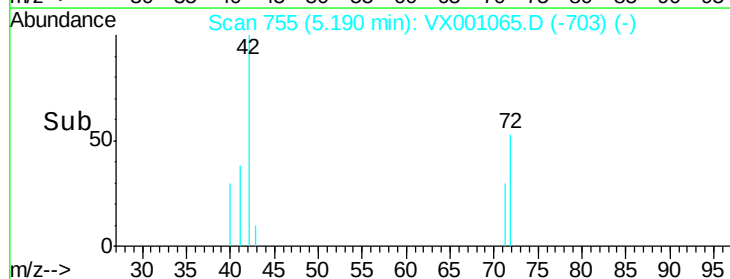
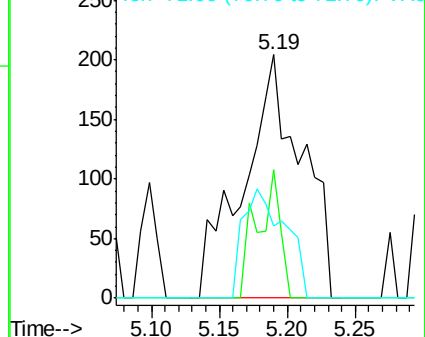
42 100

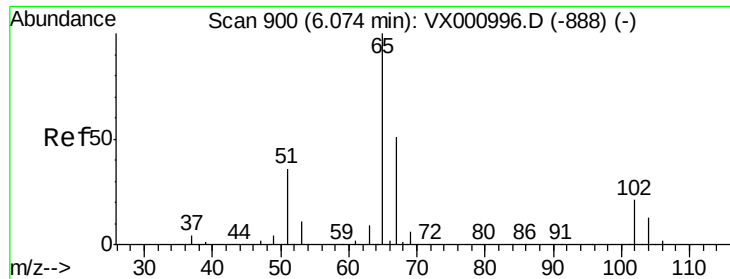
72 21.2 34.6 52.0#

71 32.5 32.6 49.0#



Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

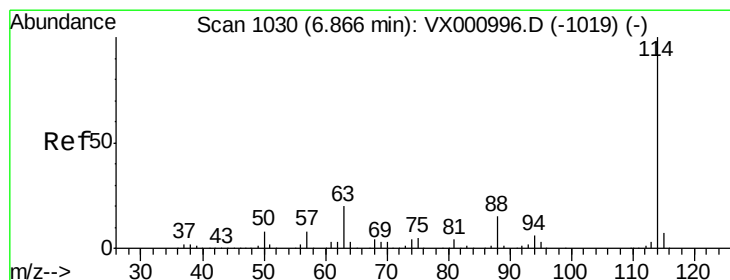
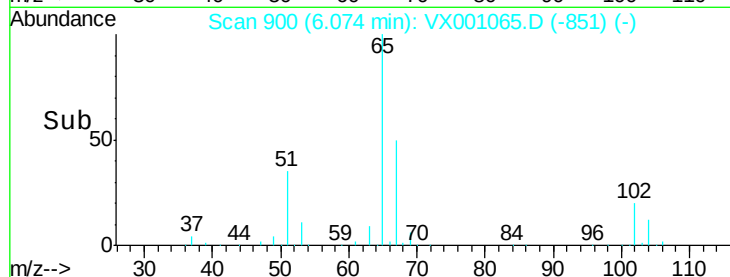
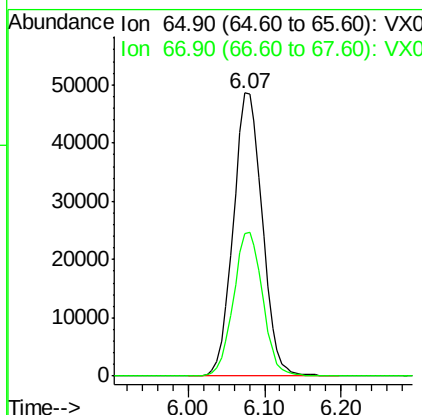
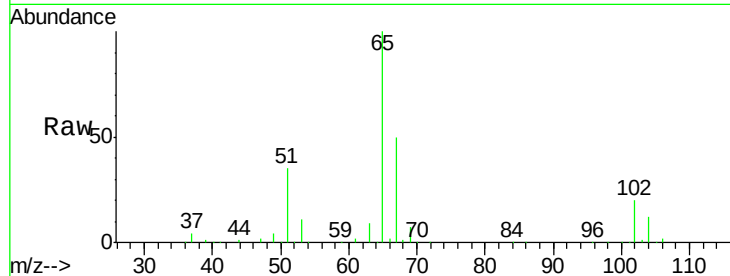




#33
 1,2-Dichloroethane-d4
 Concen: 50.79 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX001065.D
 Acq: 23 Apr 2018 18:01

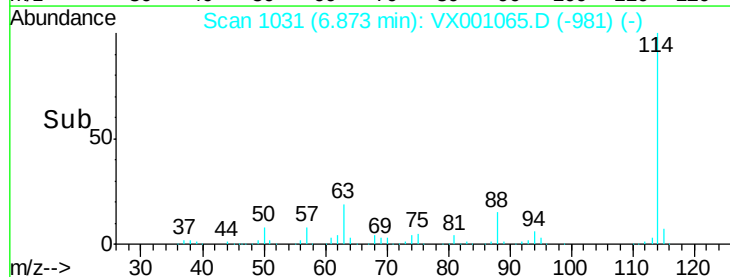
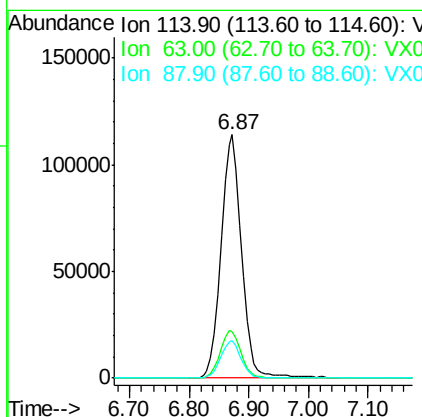
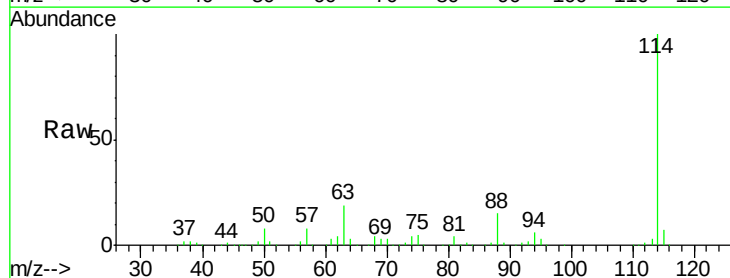
Instrument :
 MSVOA_X
 ClientSampleId :
 LF017MW005-180417

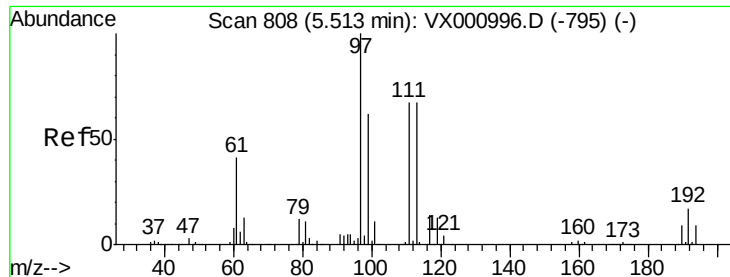
Tgt Ion: 65 Resp: 127811
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. 0.01 min
 Lab File: VX001065.D
 Acq: 23 Apr 2018 18:01

Tgt Ion: 114 Resp: 273038
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 39.4
 88 15.3 0.0 29.8





#35

Dibromofluoromethane

Concen: 47.45 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.00 min

Lab File: VX001065.D

Acq: 23 Apr 2018 18:01

Instrument :

MSVOA_X

ClientSampleId :

LF017MW005-180417

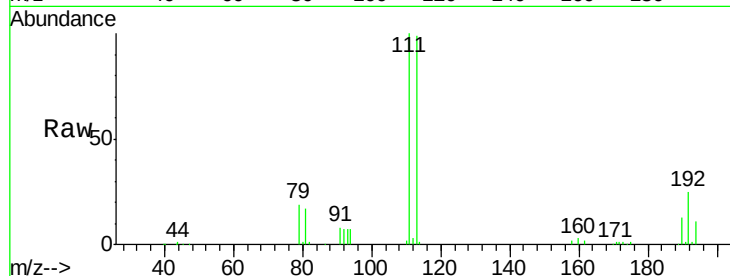
Tgt Ion:113 Resp: 98782

Ion Ratio Lower Upper

113 100

111 101.4 81.4 122.2

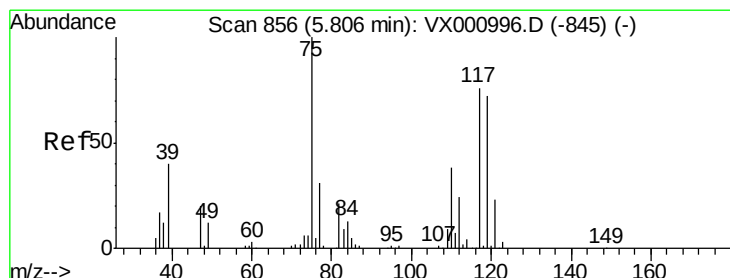
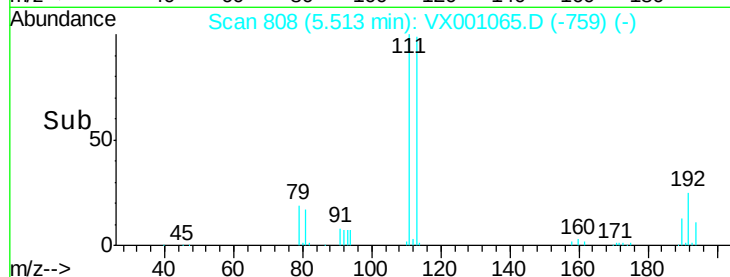
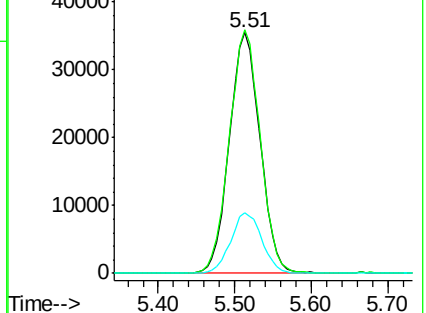
192 25.3 20.4 30.6



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: 3.92 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX001065.D

Acq: 23 Apr 2018 18:01

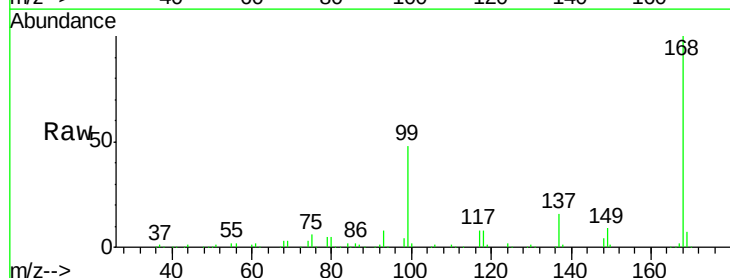
Tgt Ion: 75 Resp: 12582

Ion Ratio Lower Upper

75 100

110 9.7 18.7 56.1#

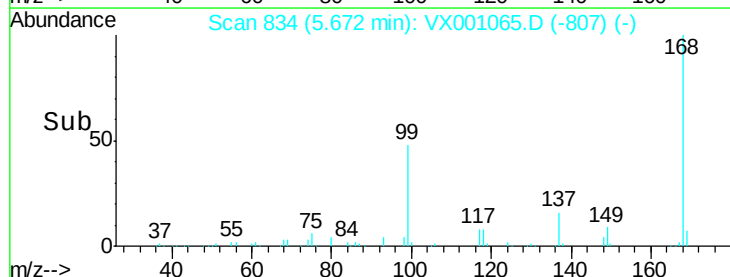
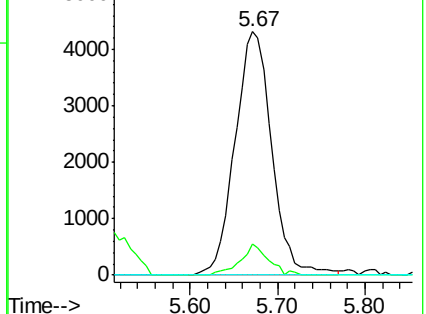
77 0.0 25.0 37.4#

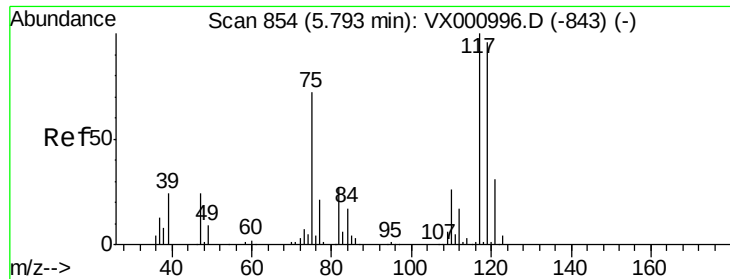


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.30 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX001065.D

Acq: 23 Apr 2018 18:01

Instrument :

MSVOA_X

ClientSampleId :

LF017MW005-180417

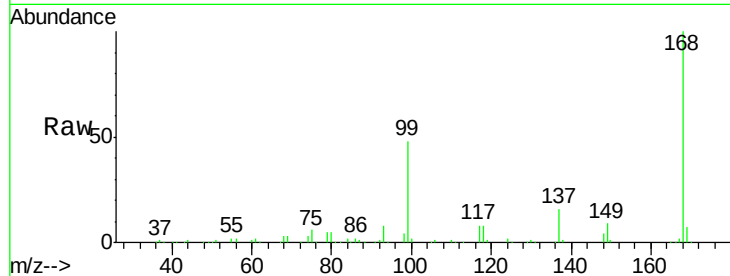
Tgt Ion:117 Resp: 17229

Ion Ratio Lower Upper

117 100

119 6.0 76.5 114.7#

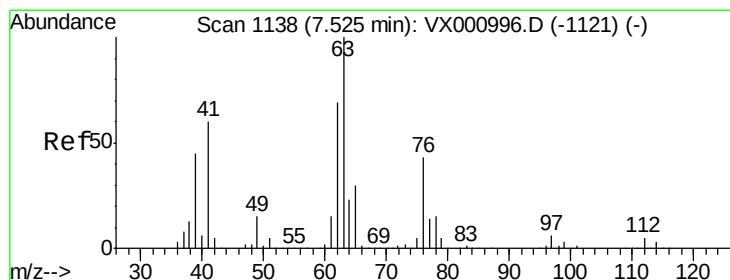
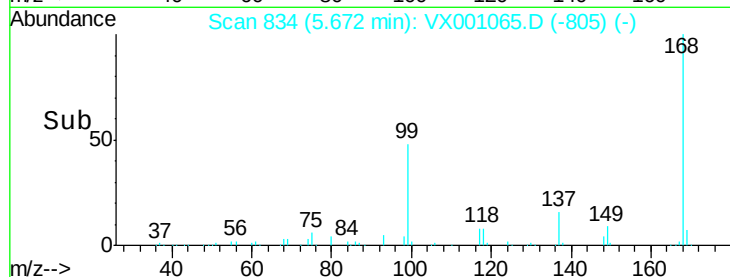
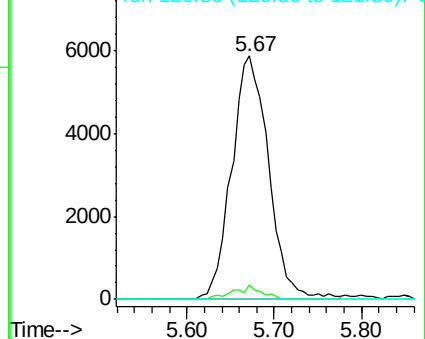
121 0.0 24.5 36.7#



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



#45

1,2-Dichloropropane

Concen: 0.40 ug/l

RT: 7.53 min Scan# 1139

Delta R.T. 0.01 min

Lab File: VX001065.D

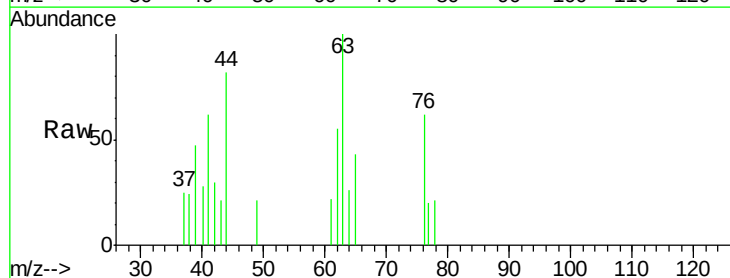
Acq: 23 Apr 2018 18:01

Tgt Ion: 63 Resp: 907

Ion Ratio Lower Upper

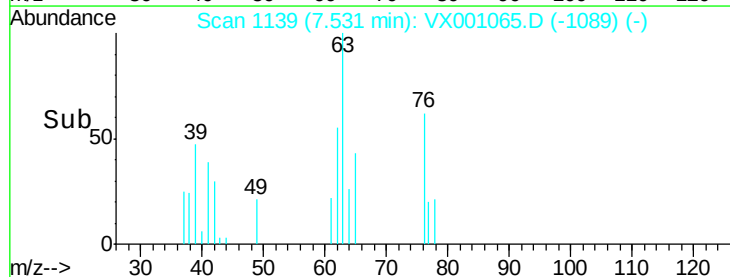
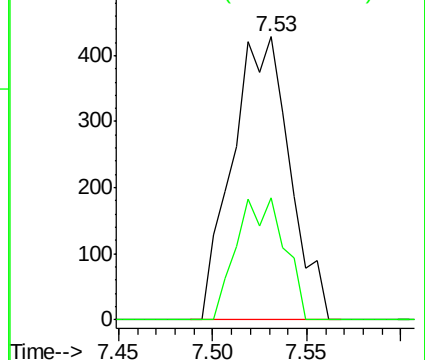
63 100

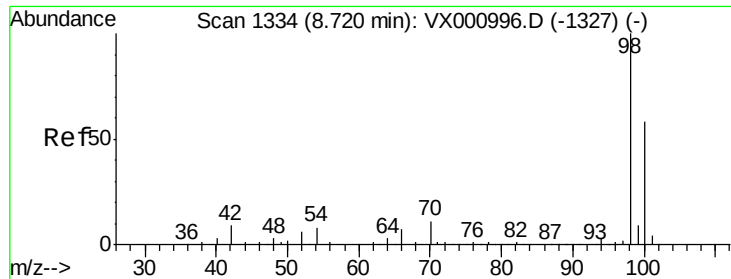
65 43.2 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0

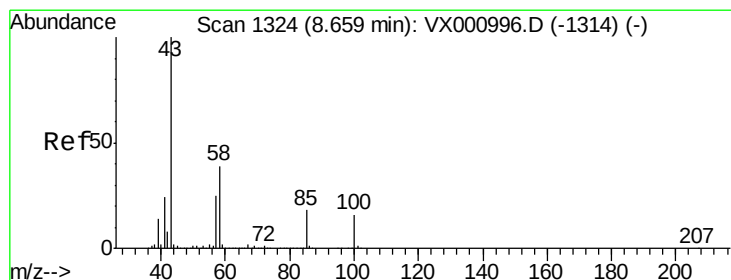
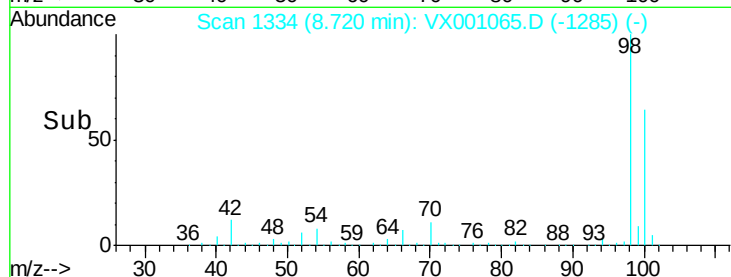
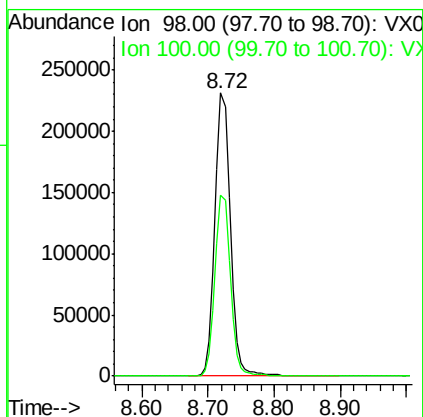
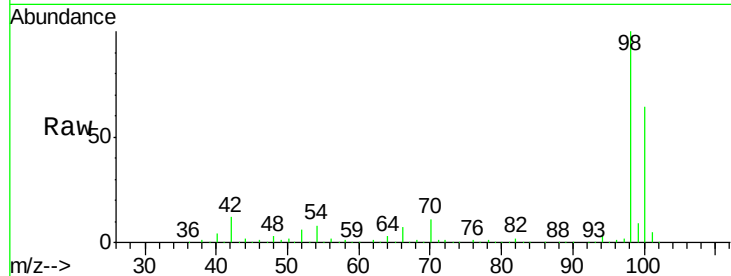




#50
Toluene-d8
Concen: 48.74 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX001065.D
Acq: 23 Apr 2018 18:01

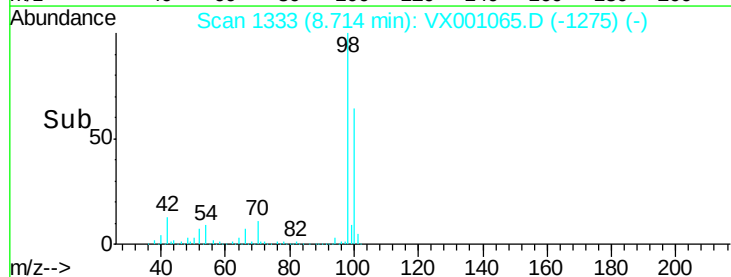
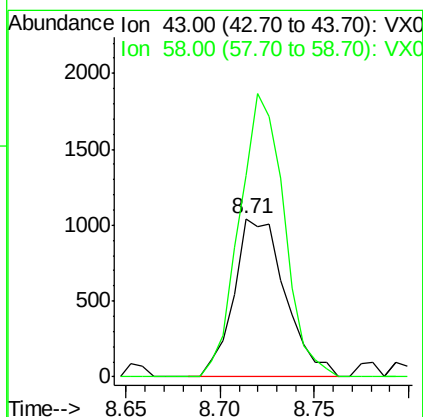
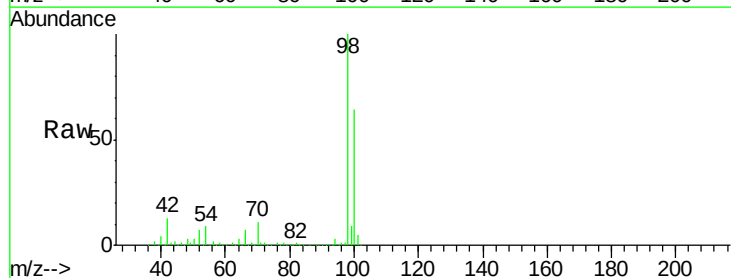
Instrument :
MSVOA_X
ClientSampleId :
LF017MW005-180417

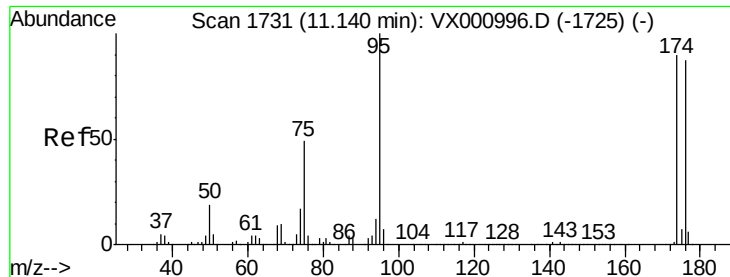
Tgt Ion: 98 Resp: 375208
Ion Ratio Lower Upper
98 100
100 64.2 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 0.64 ug/l
RT: 8.71 min Scan# 1333
Delta R.T. 0.05 min
Lab File: VX001065.D
Acq: 23 Apr 2018 18:01

Tgt Ion: 43 Resp: 1967
Ion Ratio Lower Upper
43 100
58 156.4 30.2 45.4#

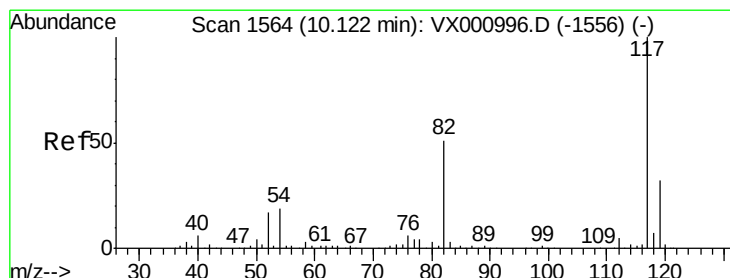
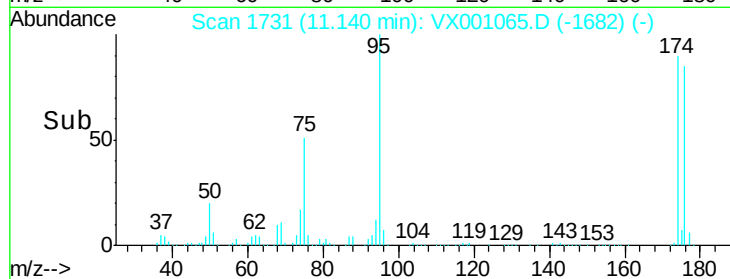
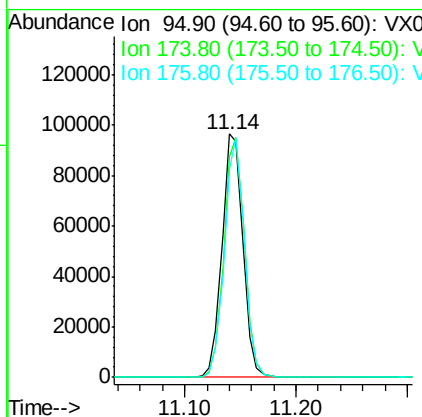
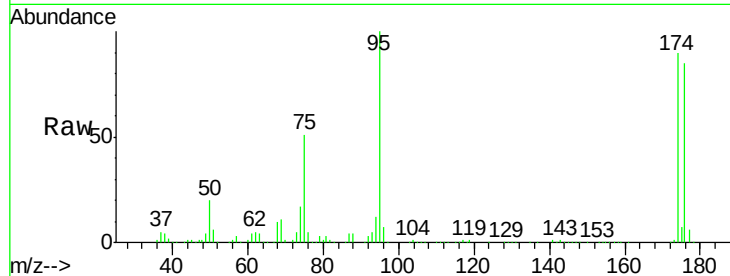




#62
 4-Bromofluorobenzene
 Concen: 38.69 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.00 min
 Lab File: VX001065.D
 Acq: 23 Apr 2018 18:01

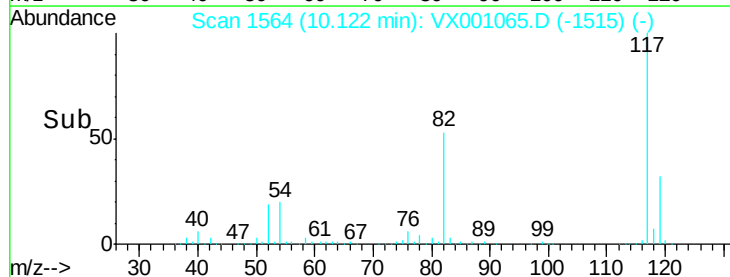
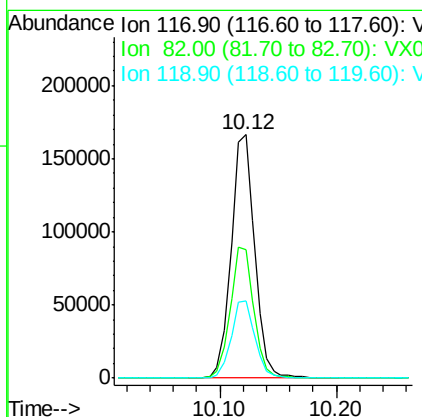
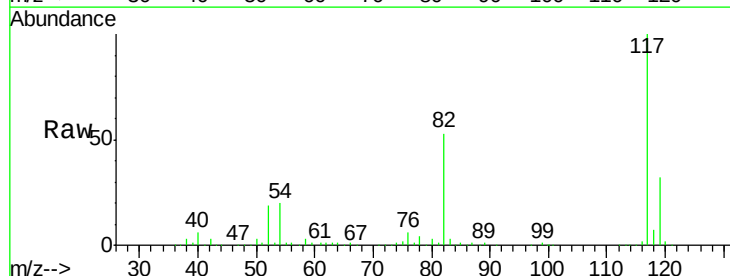
Instrument :
 MSVOA_X
 ClientSampleId :
 LF017MW005-180417

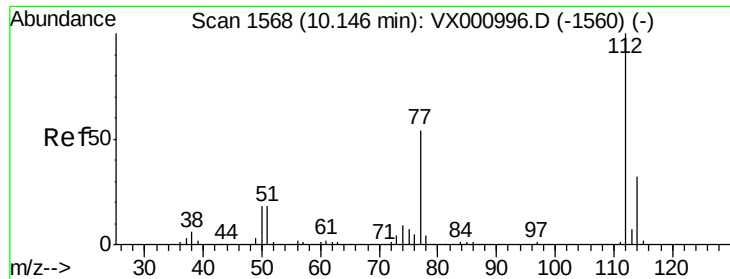
Tgt Ion: 95 Resp: 125019
 Ion Ratio Lower Upper
 95 100
 174 97.3 0.0 198.4
 176 94.1 0.0 192.0



#63
 Chlorobenzene-d5
 Concen: 50.00 ug/l
 RT: 10.12 min Scan# 1564
 Delta R.T. 0.00 min
 Lab File: VX001065.D
 Acq: 23 Apr 2018 18:01

Tgt Ion: 117 Resp: 234533
 Ion Ratio Lower Upper
 117 100
 82 52.6 40.6 60.8
 119 31.9 26.0 39.0





#65

Chlorobenzene

Concen: 0.38 ug/l

RT: 10.15 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VX001065.D

Acq: 23 Apr 2018 18:01

Instrument :

MSVOA_X

ClientSampleId :

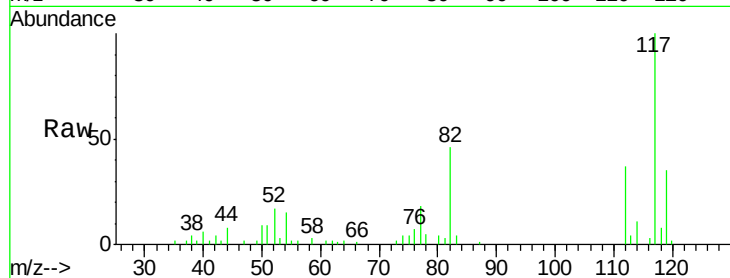
LF017MW005-180417

Tgt Ion:112 Resp: 2349

Ion Ratio Lower Upper

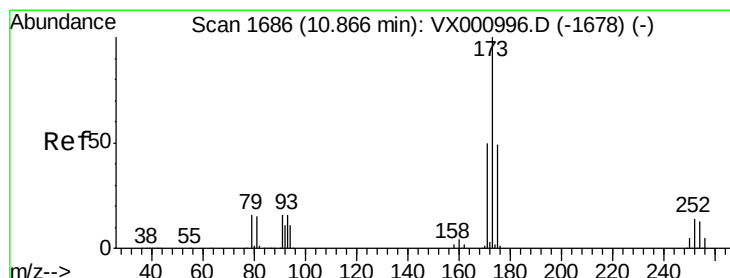
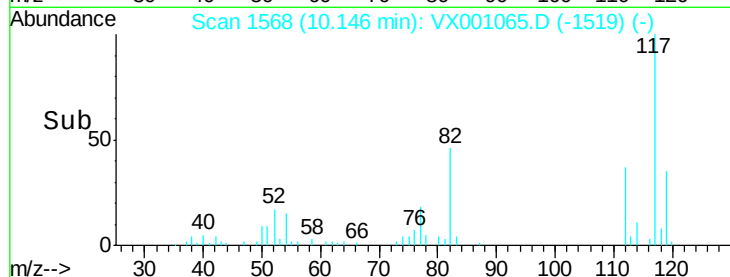
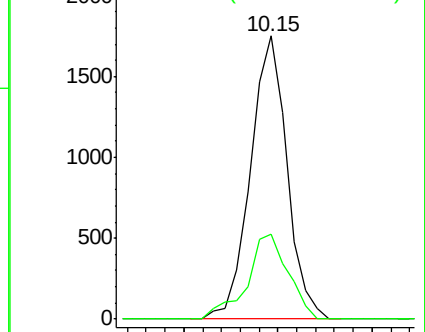
112 100

114 29.9 25.5 38.3



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#71

Bromoform

Concen: 2.80 ug/l

RT: 10.86 min Scan# 1685

Delta R.T. -0.01 min

Lab File: VX001065.D

Acq: 23 Apr 2018 18:01

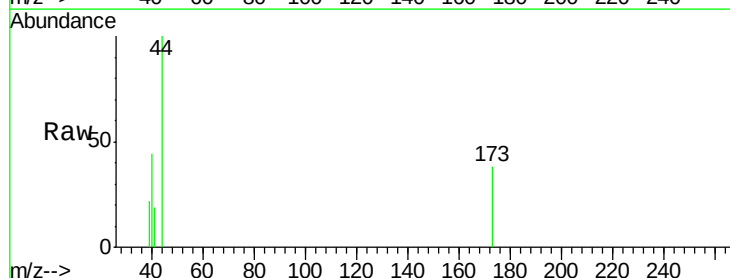
Tgt Ion:173 Resp: 145

Ion Ratio Lower Upper

173 100

175 0.0 24.8 74.3#

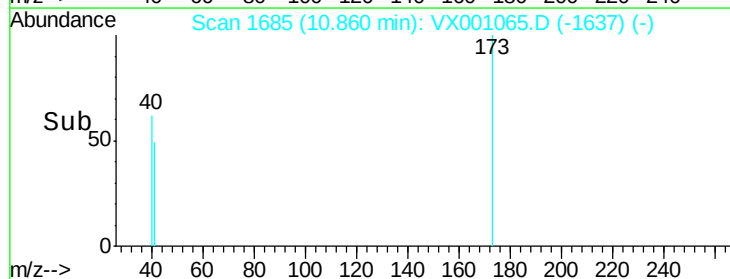
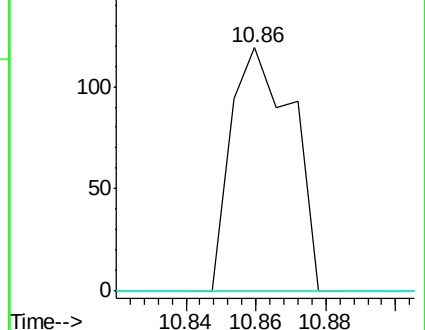
254 0.0 0.2 0.2#

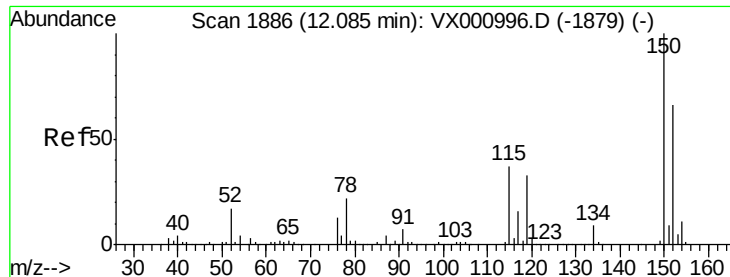


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VX001065.D

Acq: 23 Apr 2018 18:01

Instrument :

MSVOA_X

ClientSampleId :

LF017MW005-180417

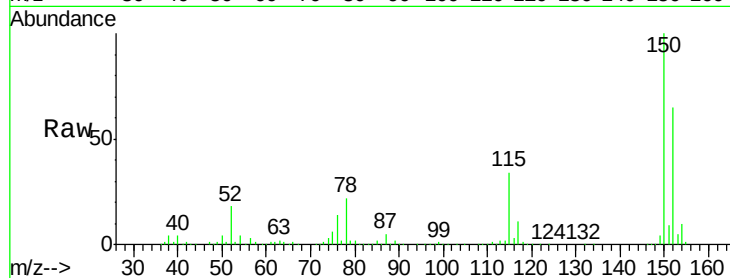
Tgt Ion:152 Resp: 123024

Ion Ratio Lower Upper

152 100

115 53.7 38.2 114.6

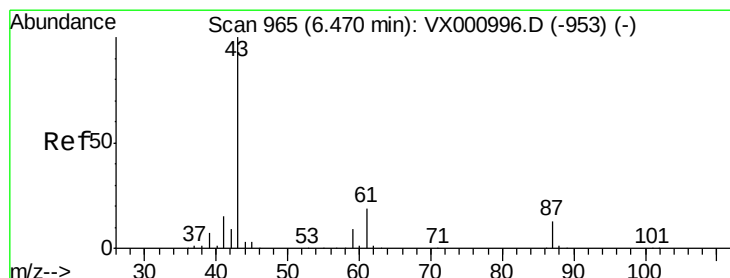
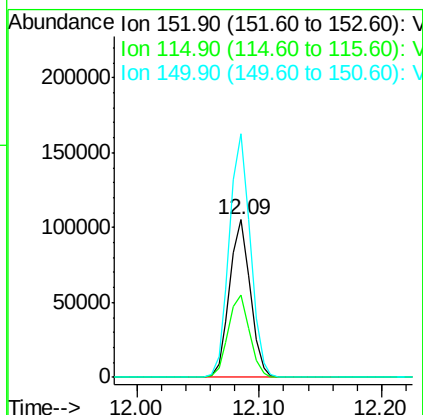
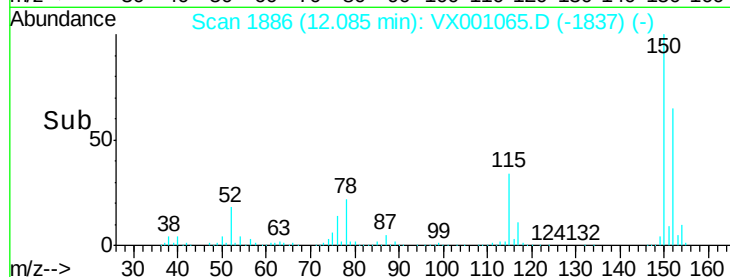
150 156.9 0.0 350.4



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-ethyl acetate

Concen: 0.24 ug/l

RT: 6.49 min Scan# 968

Delta R.T. 0.02 min

Lab File: VX001065.D

Acq: 23 Apr 2018 18:01

Tgt Ion: 43 Resp: 831

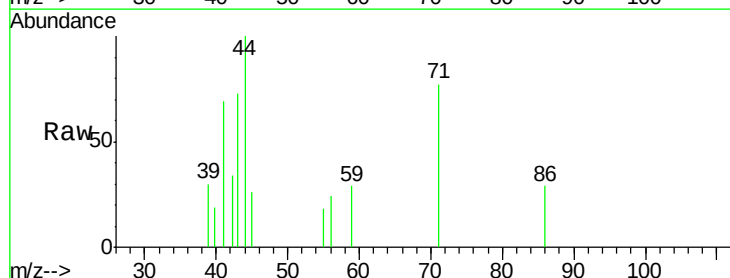
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 5.8 0.1 0.1#

61 0.0 15.4 23.2#

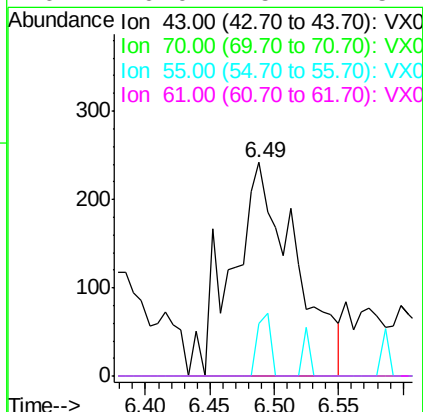
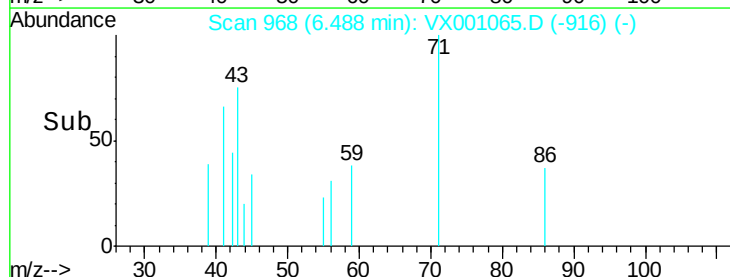


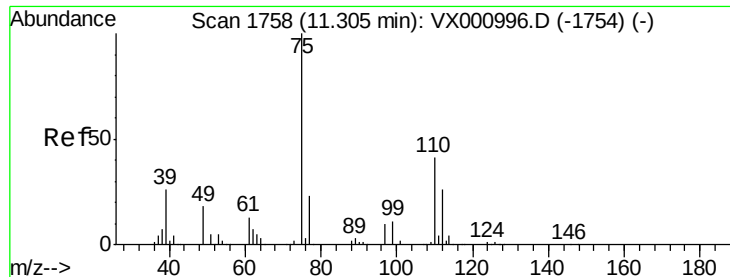
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 29.62 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001065.D

Acq: 23 Apr 2018 18:01

Instrument :

MSVOA_X

ClientSampleId :

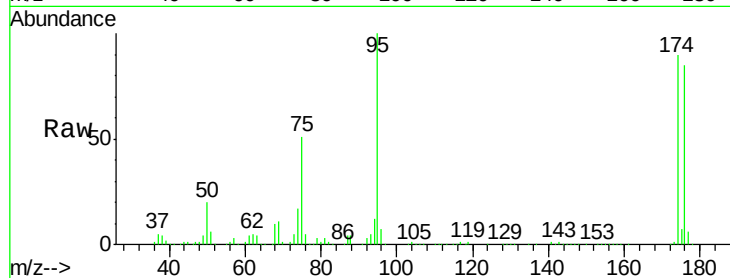
LF017MW005-180417

Tgt Ion: 75 Resp: 63214

Ion Ratio Lower Upper

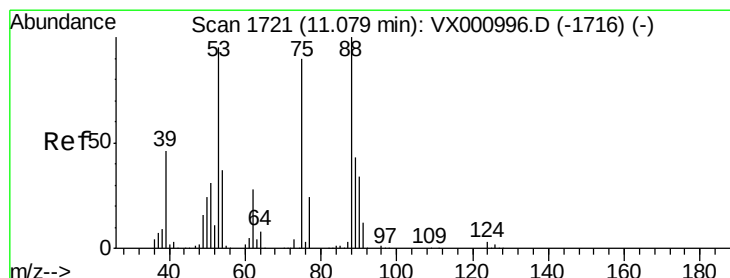
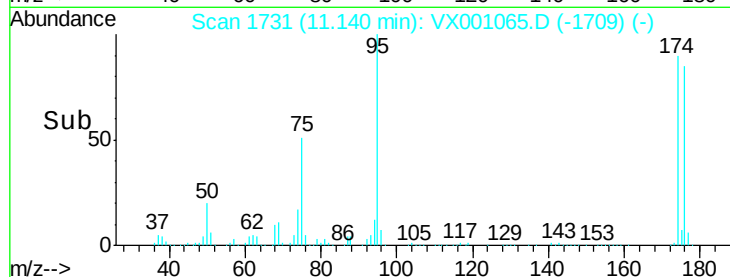
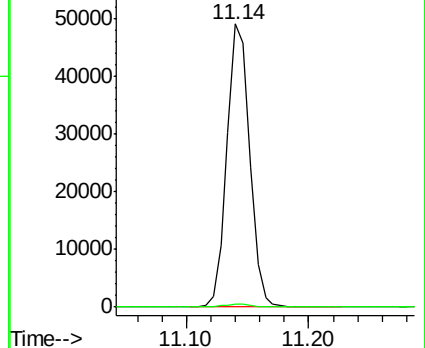
75 100

77 1.1 19.6 58.7#



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: 88.23 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001065.D

Acq: 23 Apr 2018 18:01

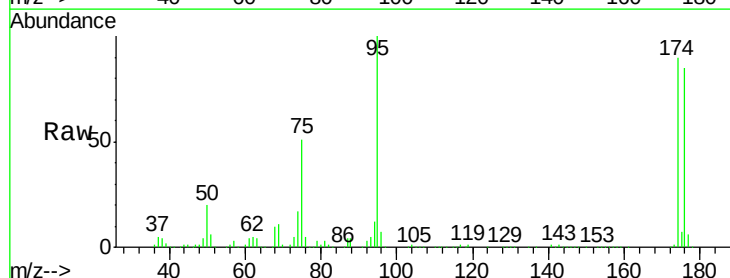
Tgt Ion: 75 Resp: 63214

Ion Ratio Lower Upper

75 100

53 0.0 83.4 125.2#

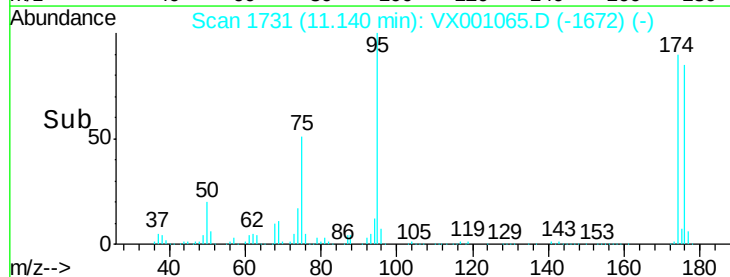
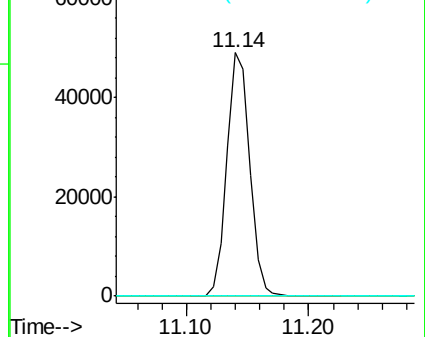
89 0.0 39.7 59.5#

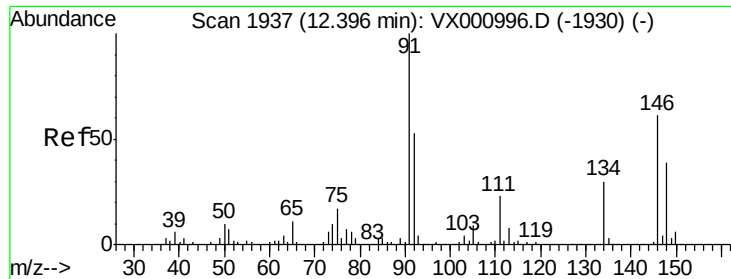


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#91

1,2-Dichlorobenzene

Concen: 0.67 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VX001065.D

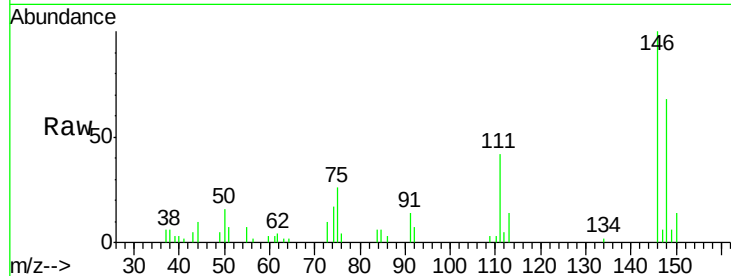
Acq: 23 Apr 2018 18:01

Instrument :

MSVOA_X

ClientSampleId :

LF017MW005-180417



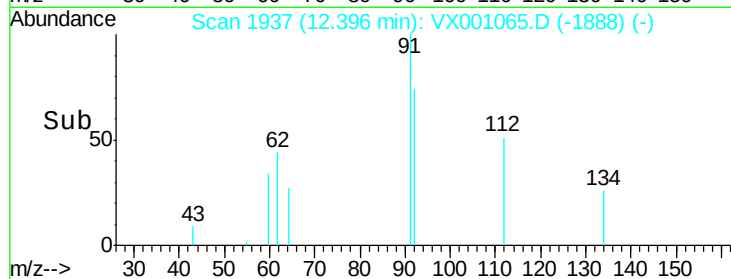
Tgt Ion:146 Resp: 2821

Ion Ratio Lower Upper

146 100

111 42.9 18.6 56.0

148 69.6 32.3 96.8



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

