

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX041418\
 Data File : VX000874.D
 Acq On : 14 Apr 2018 14:59
 Operator : JC/MD
 Sample : J2353-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012RW164-180411

Quant Time: Apr 16 05:50:50 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 10 15:49:28 2018
 Response via : Initial Calibration

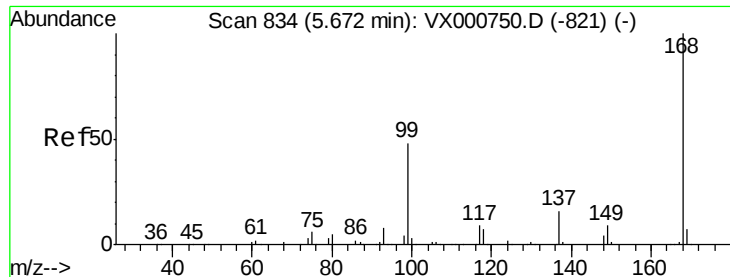
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	250085	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	331008	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	303786	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	198630	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.08	65	144138	45.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.42%	
35) Dibromofluoromethane	5.51	113	116889	45.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.66%	
50) Toluene-d8	8.73	98	457269	48.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.32%	
62) 4-Bromofluorobenzene	11.15	95	175770	44.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	783	0.32	ug/l	98
4) Vinyl Chloride	1.40	62	3712	1.36	ug/l	98
5) Bromomethane	1.65	94	271	Below Cal		94
6) Chloroethane	1.75	64	458	0.28	ug/l	91
10) Methyl Iodide	2.52	142	196	8.32	ug/l #	42
12) 1,1-Dichloroethene	2.37	96	1204	0.52	ug/l	85
13) Acrolein	2.32	56	361	1.33	ug/l #	27
15) Acrylonitrile	3.17	53	362	0.30	ug/l #	49
16) Acetone	2.45	43	1352	1.24	ug/l #	86
21) trans-1,2-Dichloroethene	3.17	96	744	0.29	ug/l	94
27) cis-1,2-Dichloroethene	4.60	96	205364	71.49	ug/l	89
31) Cyclohexane	5.67	56	4308	1.04	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	15173	4.16	ug/l #	49
38) Carbon Tetrachloride	5.67	117	20922	5.13	ug/l #	16
40) Benzene	6.15	78	2653	0.26	ug/l #	88
44) Trichloroethene	7.22	130	1772	0.56	ug/l	76
65) Chlorobenzene	10.15	112	24718	3.23	ug/l	98
76) 1,2,3-Trichloropropane	11.15	75	86274	25.19	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.15	75	86274	69.28	ug/l #	11
91) 1,2-Dichlorobenzene	12.40	146	8376	1.27	ug/l	98

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

```
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Acq On    : 14 Apr 2018  14:59  
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Sample    : J2353-05  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 11      Sample Multiplier: 1
```



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX000874.D

Acq: 14 Apr 2018 14:59

Instrument :

MSVOA_X

ClientSampleId :

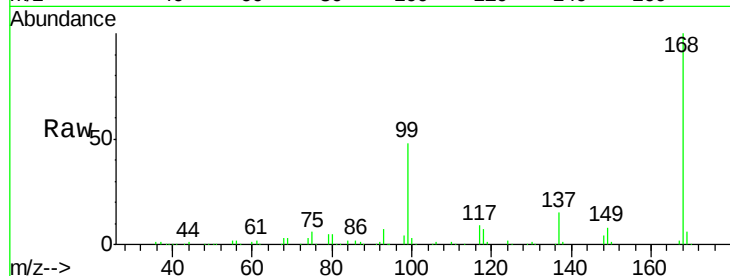
LF012RW164-180411

Tgt Ion:168 Resp: 250085

Ion Ratio Lower Upper

168 100

99 48.0 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

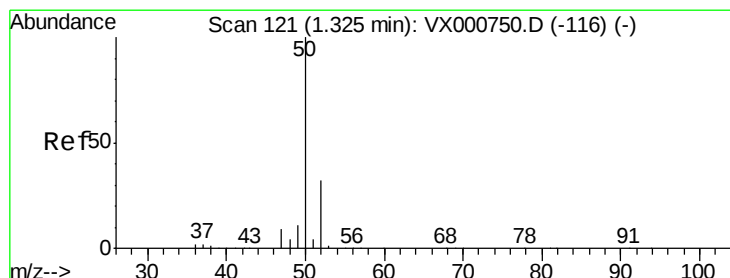
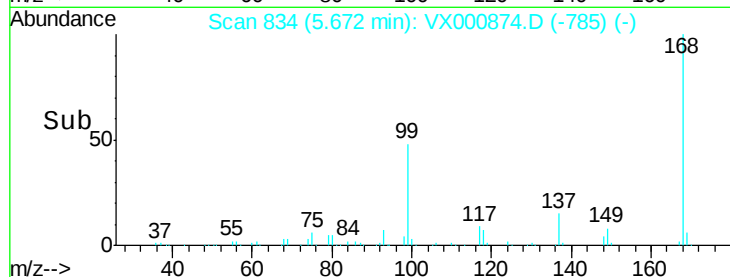
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80 5.90



#3

Chloromethane

Concen: 0.32 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX000874.D

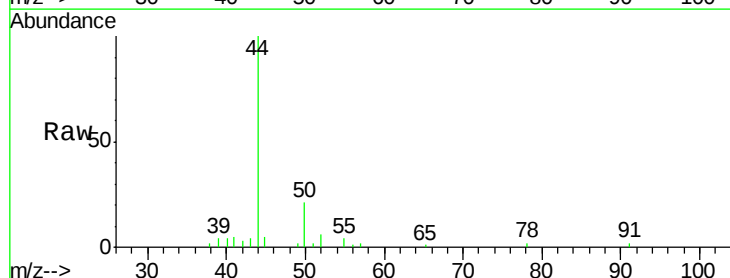
Acq: 14 Apr 2018 14:59

Tgt Ion: 50 Resp: 783

Ion Ratio Lower Upper

50 100

52 31.2 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

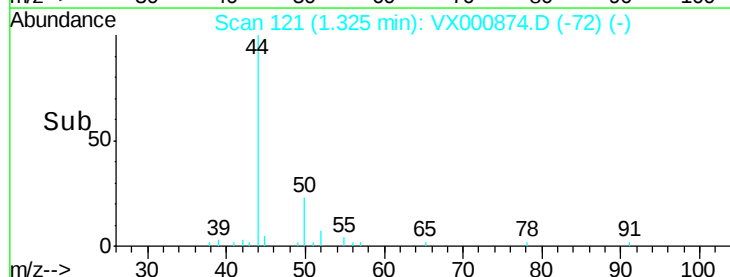
600

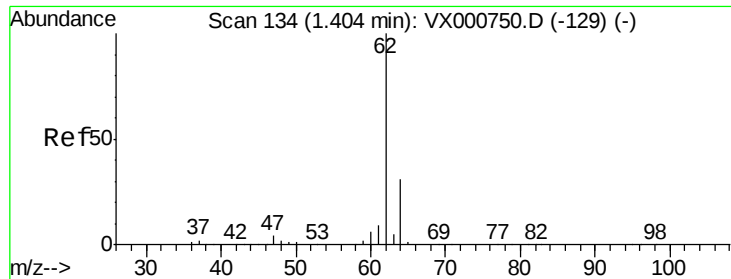
400

200

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 1.36 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX000874.D

Acq: 14 Apr 2018 14:59

Instrument :

MSVOA_X

ClientSampleId :

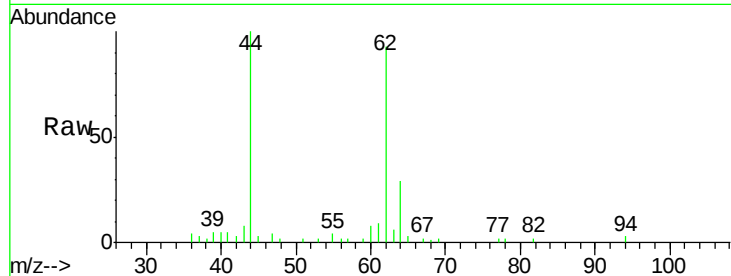
LF012RW164-180411

Tgt Ion: 62 Resp: 3712

Ion Ratio Lower Upper

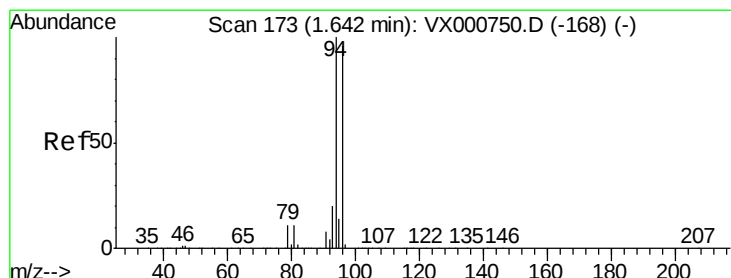
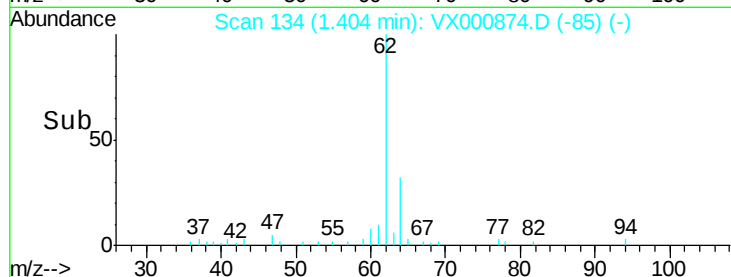
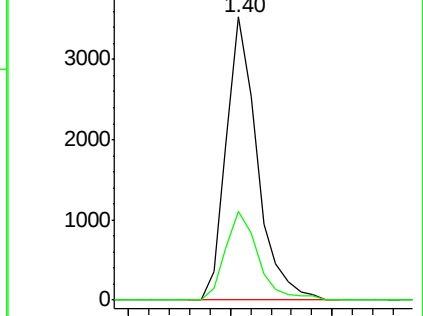
62 100

64 31.6 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.01 min

Lab File: VX000874.D

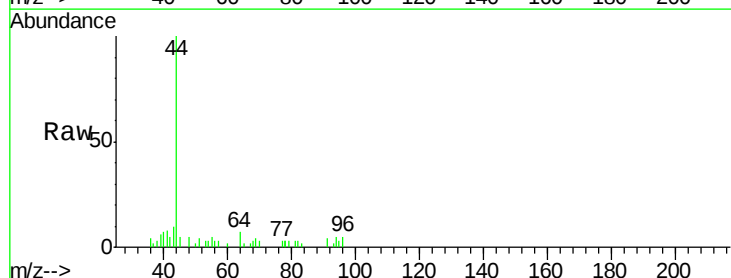
Acq: 14 Apr 2018 14:59

Tgt Ion: 94 Resp: 271

Ion Ratio Lower Upper

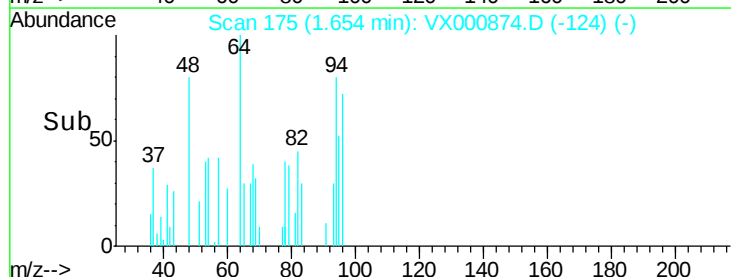
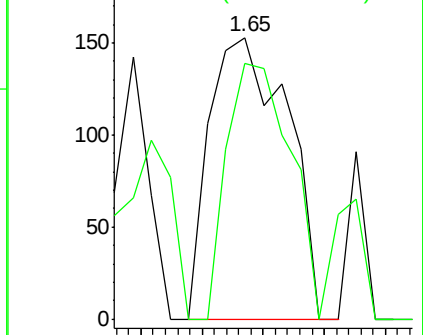
94 100

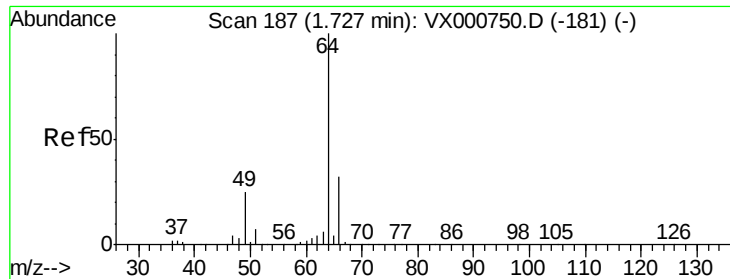
96 90.8 77.0 115.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.28 ug/l

RT: 1.75 min Scan# 190

Delta R.T. 0.02 min

Lab File: VX000874.D

Acq: 14 Apr 2018 14:59

Instrument :

MSVOA_X

ClientSampleId :

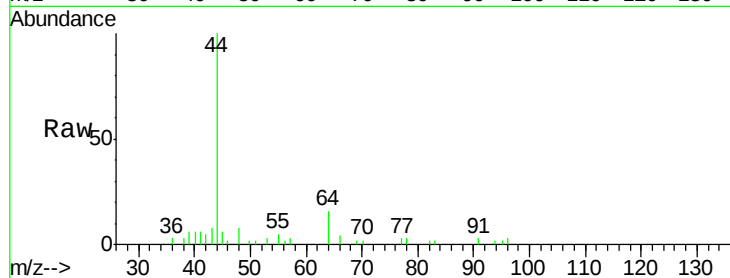
LF012RW164-180411

Tgt Ion: 64 Resp: 458

Ion Ratio Lower Upper

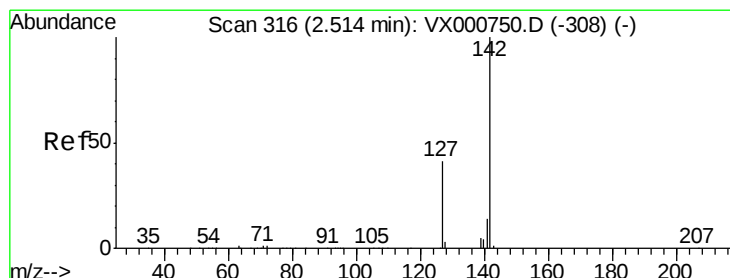
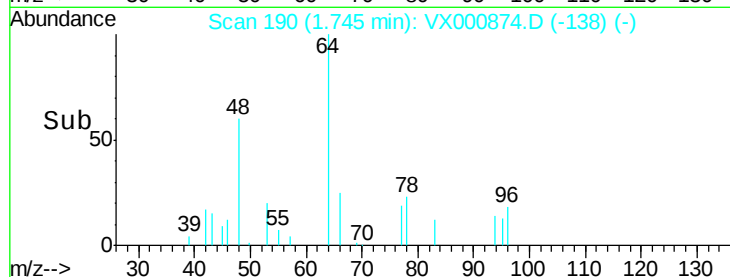
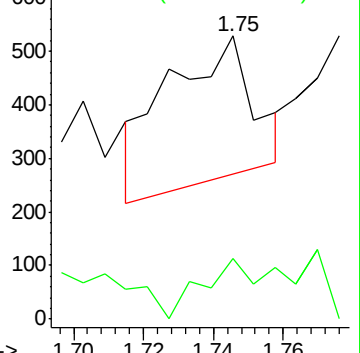
64 100

66 36.5 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 8.32 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX000874.D

Acq: 14 Apr 2018 14:59

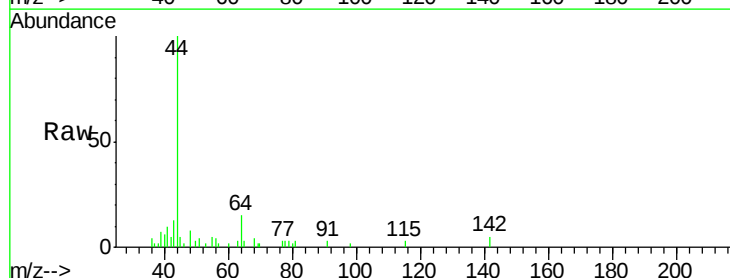
Tgt Ion: 142 Resp: 196

Ion Ratio Lower Upper

142 100

127 0.0 32.6 49.0#

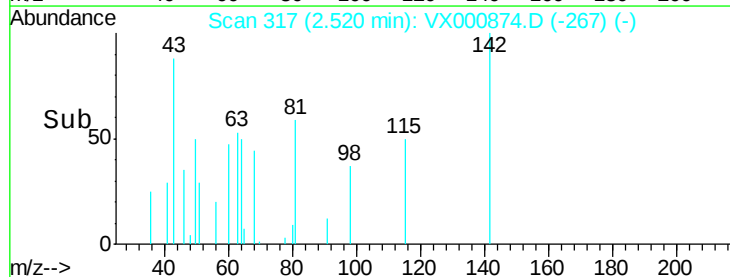
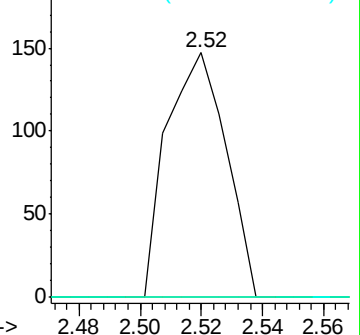
141 0.0 11.5 17.3#

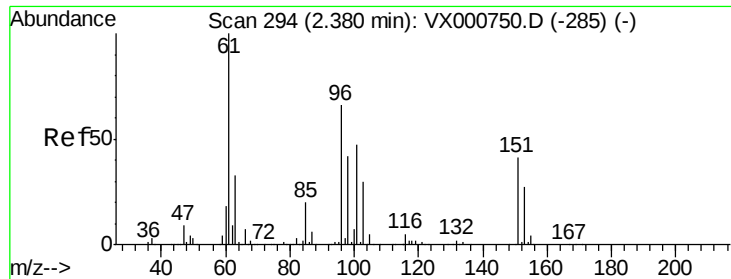


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

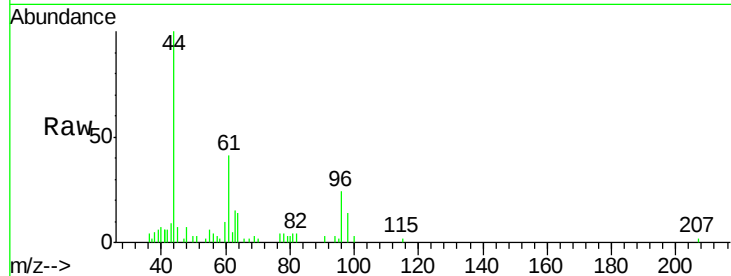




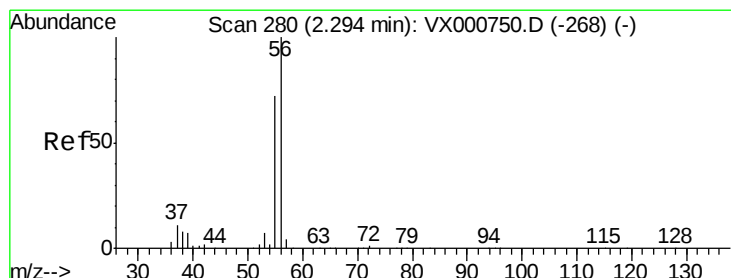
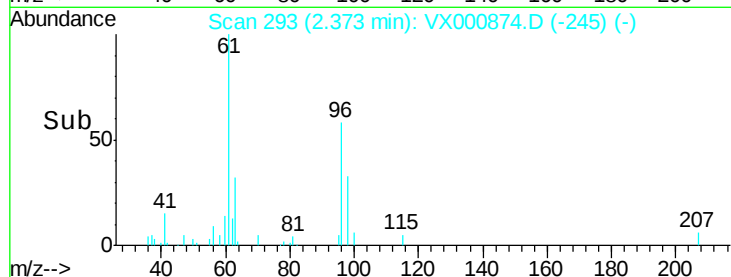
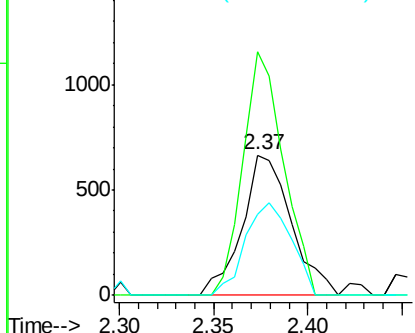
#12
 1,1-Dichloroethene
 Concen: 0.52 ug/l
 RT: 2.37 min Scan# 293
 Delta R.T. -0.01 min
 Lab File: VX000874.D
 Acq: 14 Apr 2018 14:59

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012RW164-180411

Tgt Ion: 96 Resp: 1204
 Ion Ratio Lower Upper
 96 100
 61 173.8 120.5 180.7
 98 57.7 50.9 76.3

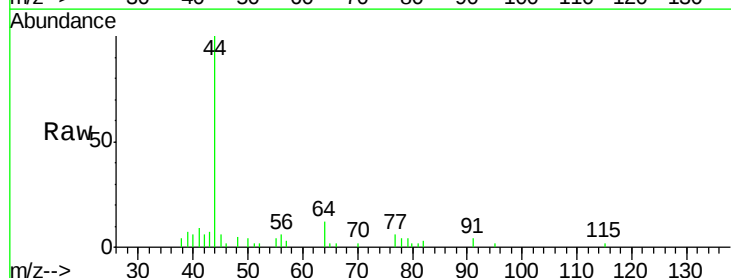


Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0

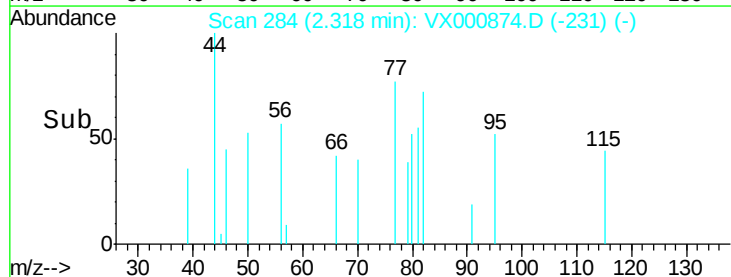
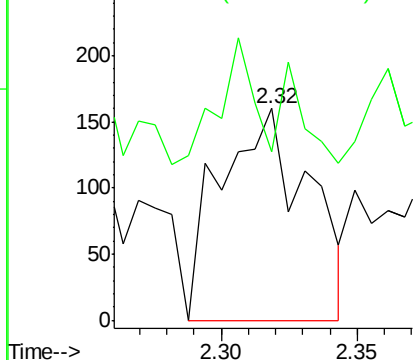


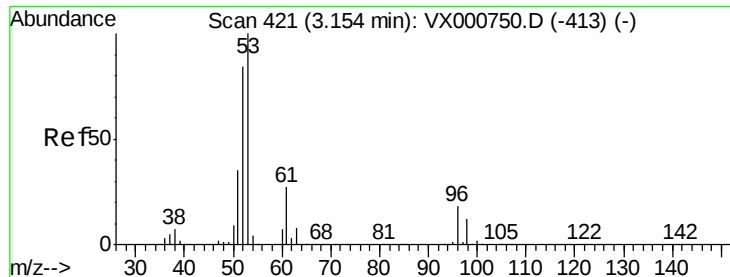
#13
 Acrolein
 Concen: 1.33 ug/l
 RT: 2.32 min Scan# 284
 Delta R.T. 0.02 min
 Lab File: VX000874.D
 Acq: 14 Apr 2018 14:59

Tgt Ion: 56 Resp: 361
 Ion Ratio Lower Upper
 56 100
 55 11.9 58.7 88.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0
 Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: 0.30 ug/l

RT: 3.17 min Scan# 423

Delta R.T. 0.01 min

Lab File: VX000874.D

Acq: 14 Apr 2018 14:59

Instrument :

MSVOA_X

ClientSampleId :

LF012RW164-180411

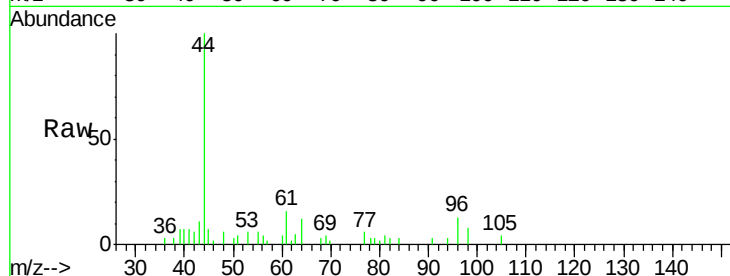
Tgt Ion: 53 Resp: 362

Ion Ratio Lower Upper

53 100

52 41.2 66.5 99.7#

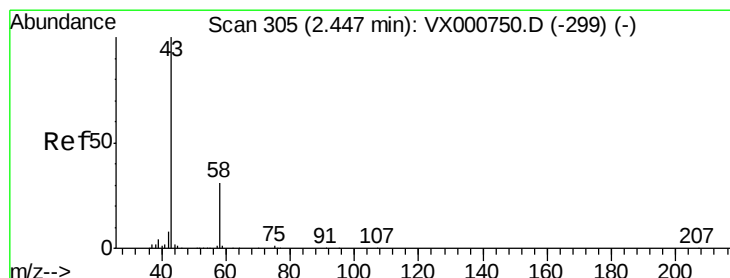
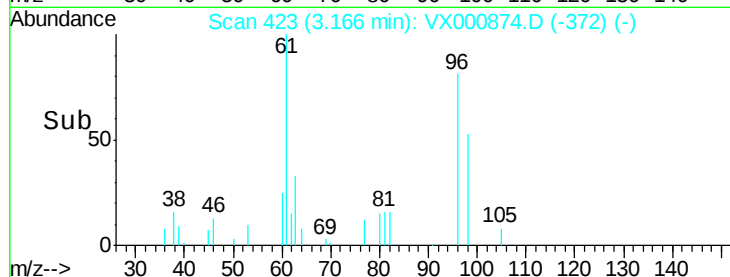
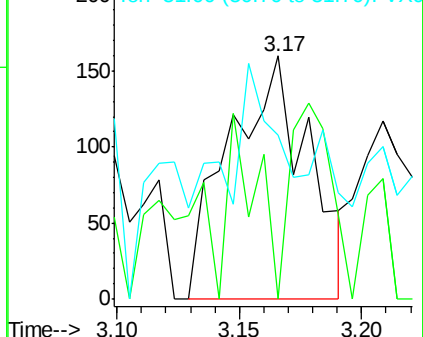
51 0.0 28.8 43.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 1.24 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX000874.D

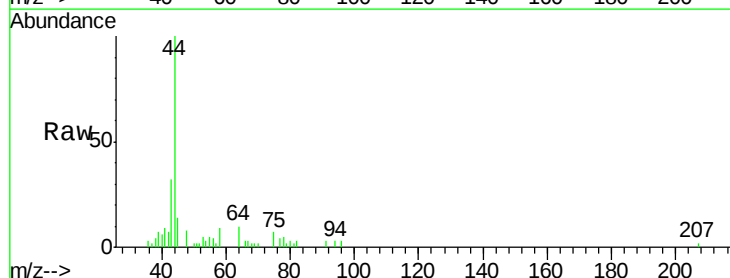
Acq: 14 Apr 2018 14:59

Tgt Ion: 43 Resp: 1352

Ion Ratio Lower Upper

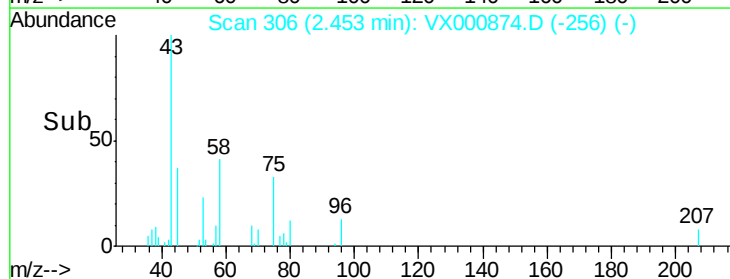
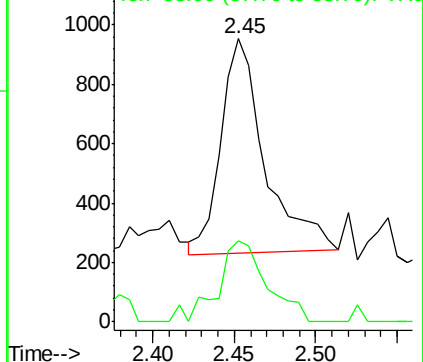
43 100

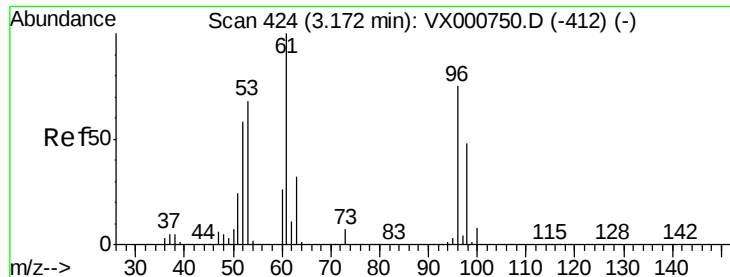
58 38.2 24.6 37.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.29 ug/l

RT: 3.17 min Scan# 423

Delta R.T. -0.01 min

Lab File: VX000874.D

Acq: 14 Apr 2018 14:59

Instrument :

MSVOA_X

ClientSampleId :

LF012RW164-180411

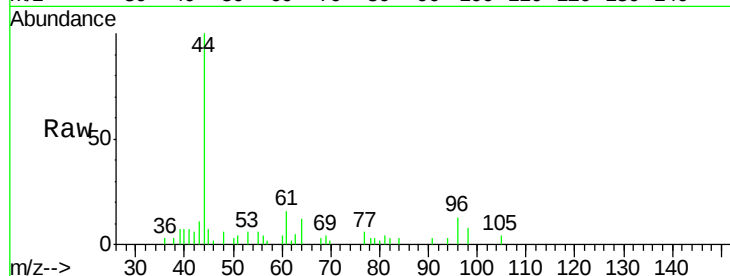
Tgt Ion: 96 Resp: 744

Ion Ratio Lower Upper

96 100

61 123.0 106.2 159.2

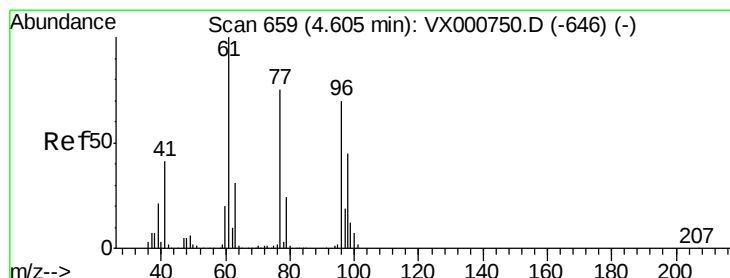
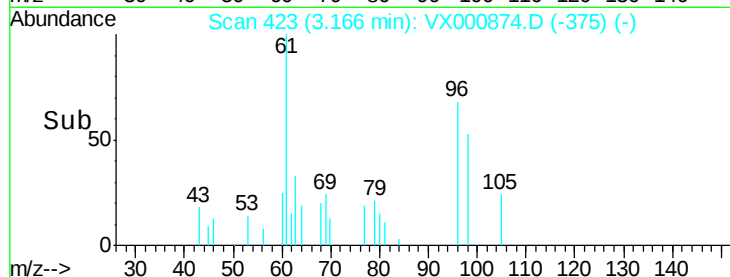
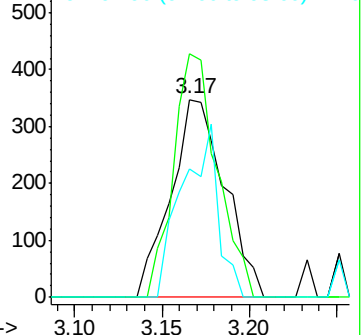
98 64.7 51.2 76.8



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



#27

cis-1,2-Dichloroethene

Concen: 71.49 ug/l

RT: 4.60 min Scan# 659

Delta R.T. -0.00 min

Lab File: VX000874.D

Acq: 14 Apr 2018 14:59

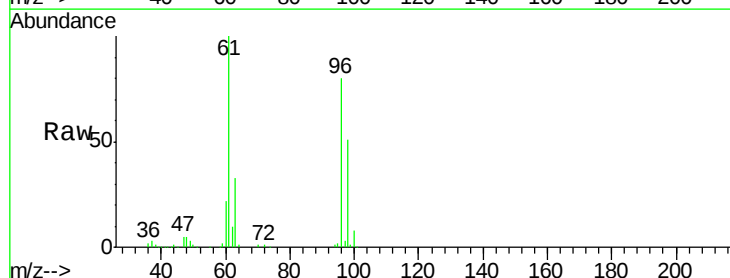
Tgt Ion: 96 Resp: 205364

Ion Ratio Lower Upper

96 100

61 126.6 0.0 292.4

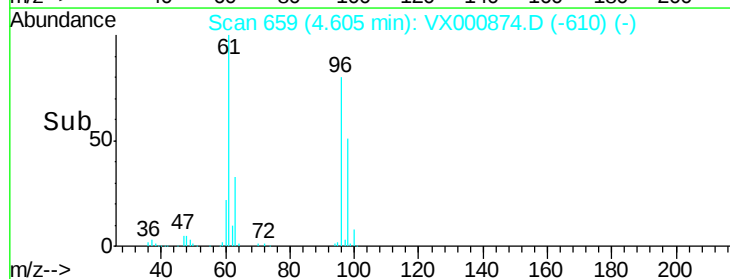
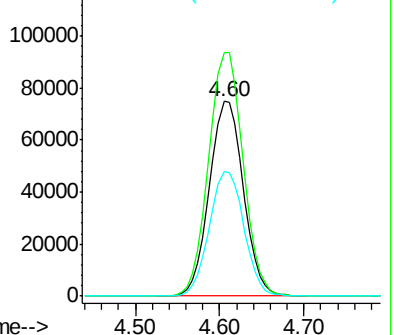
98 65.0 0.0 130.2

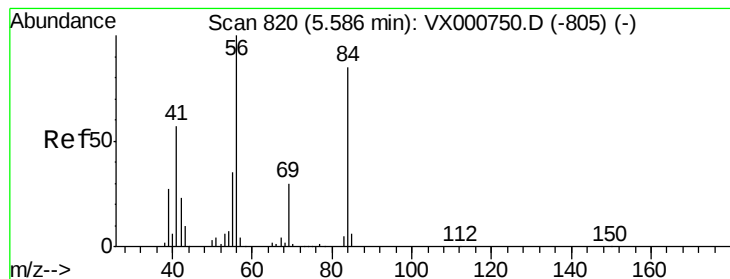


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#31

Cyclohexane

Concen: 1.04 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.09 min

Lab File: VX000874.D

Acq: 14 Apr 2018 14:59

Instrument :

MSVOA_X

ClientSampleId :

LF012RW164-180411

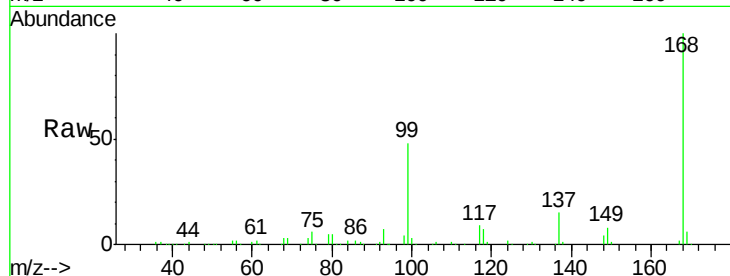
Tgt Ion: 56 Resp: 4308

Ion Ratio Lower Upper

56 100

69 171.2 24.2 36.4#

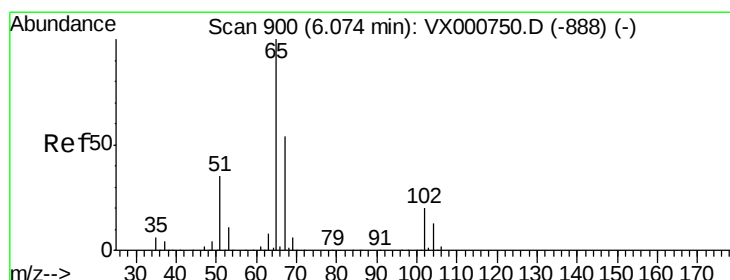
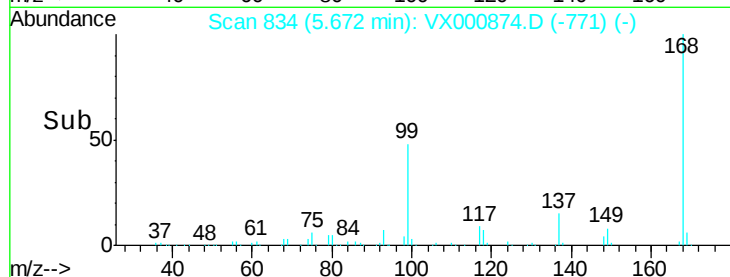
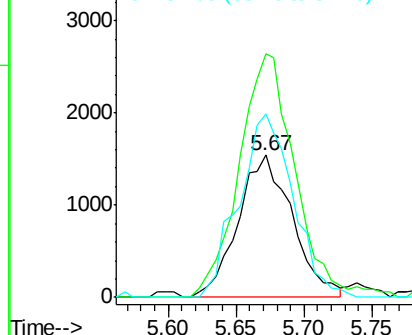
84 129.2 67.6 101.4#



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: 45.71 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.01 min

Lab File: VX000874.D

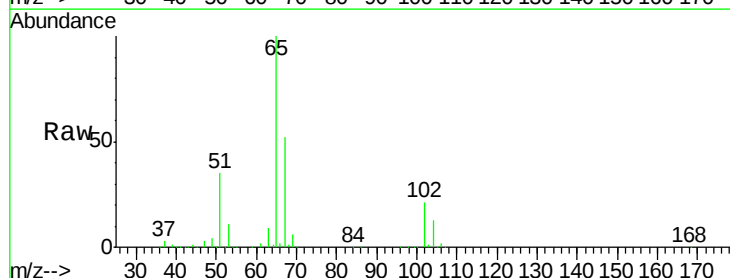
Acq: 14 Apr 2018 14:59

Tgt Ion: 65 Resp: 144138

Ion Ratio Lower Upper

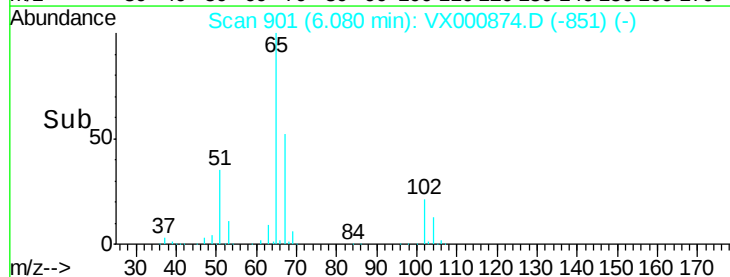
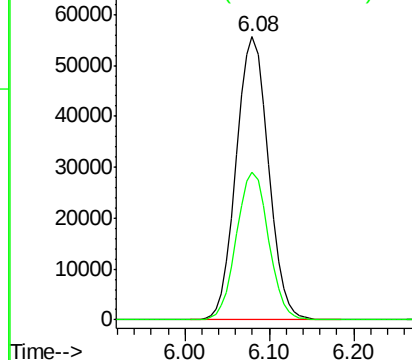
65 100

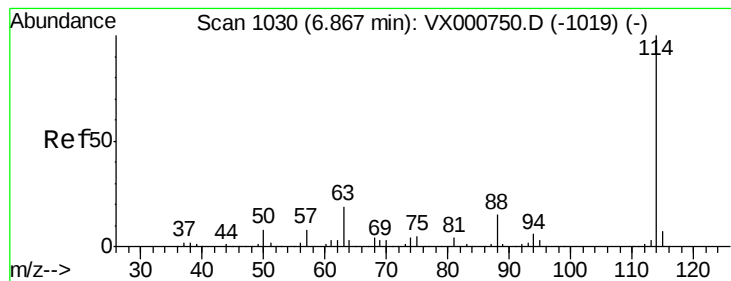
67 52.1 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VX000874.D

Acq: 14 Apr 2018 14:59

Instrument :

MSVOA_X

ClientSampleId :

LF012RW164-180411

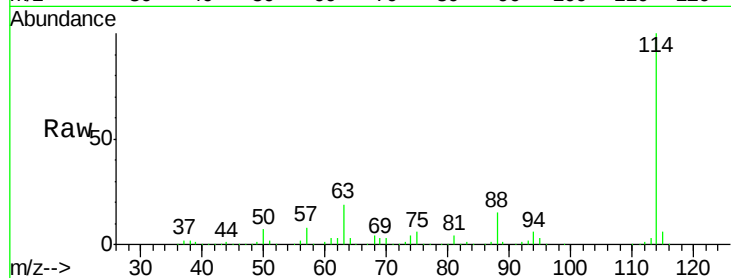
Tgt Ion:114 Resp: 331008

Ion Ratio Lower Upper

114 100

63 18.7 0.0 38.4

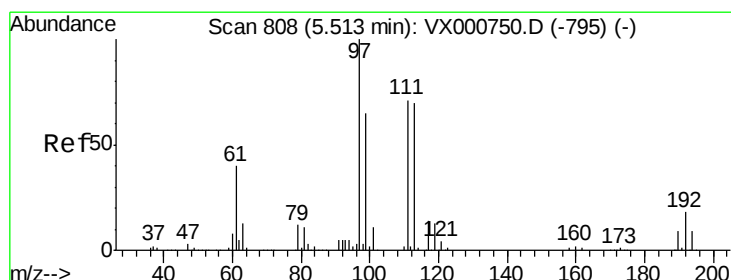
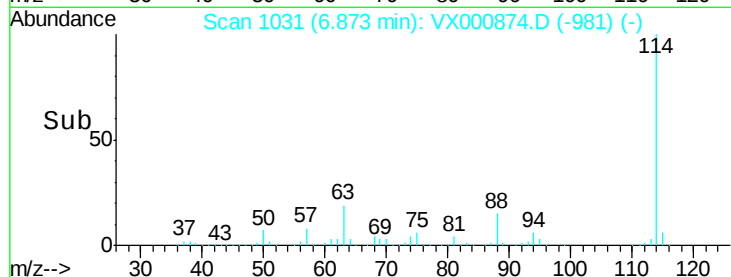
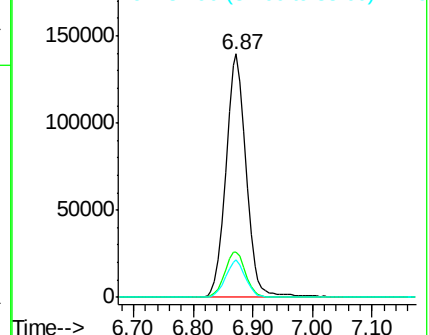
88 15.3 0.0 31.0



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: 45.83 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000874.D

Acq: 14 Apr 2018 14:59

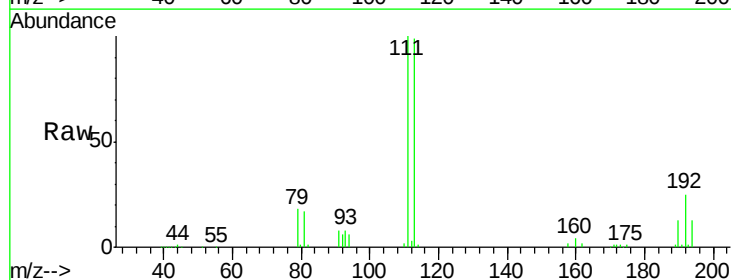
Tgt Ion:113 Resp: 116889

Ion Ratio Lower Upper

113 100

111 102.2 81.5 122.3

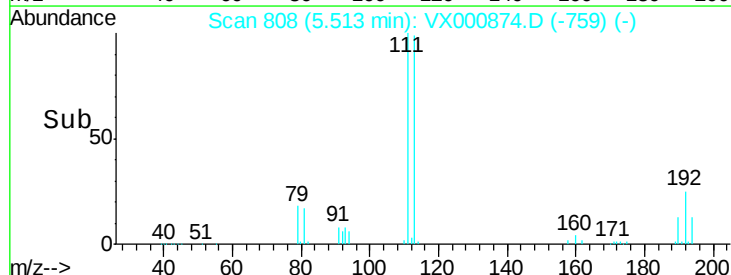
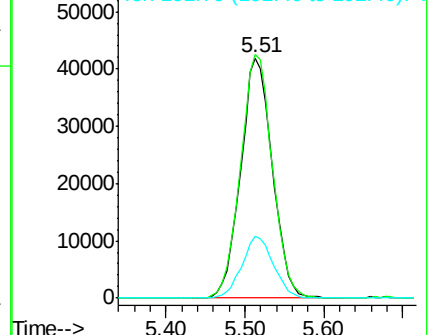
192 25.6 20.4 30.6

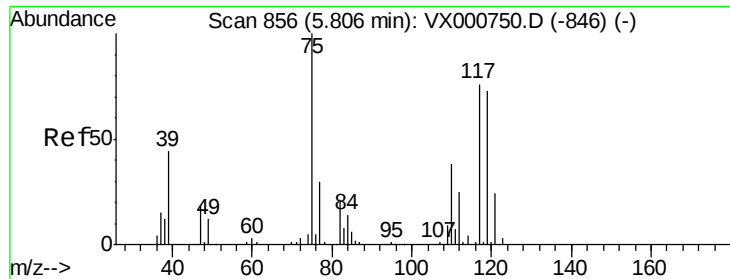


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.16 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX000874.D

Acq: 14 Apr 2018 14:59

Instrument :

MSVOA_X

ClientSampleId :

LF012RW164-180411

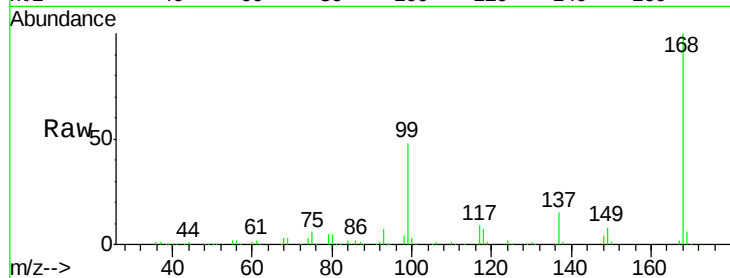
Tgt Ion: 75 Resp: 15173

Ion Ratio Lower Upper

75 100

110 10.1 19.2 57.6#

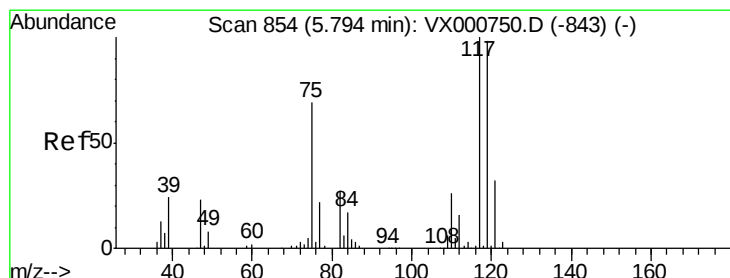
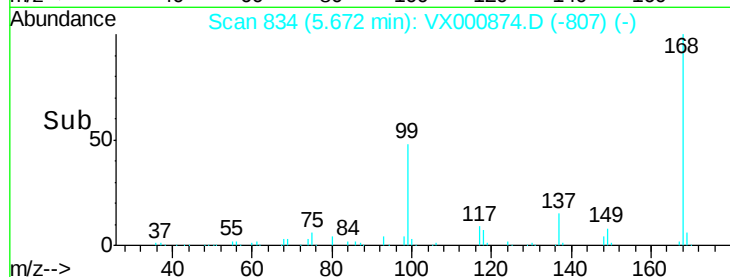
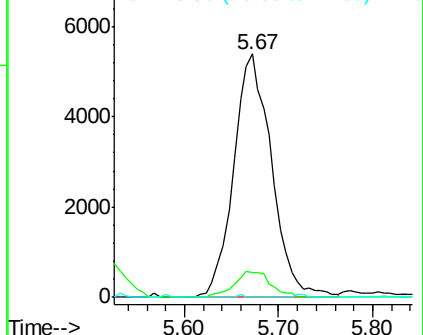
77 0.1 25.4 38.2#



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: 5.13 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX000874.D

Acq: 14 Apr 2018 14:59

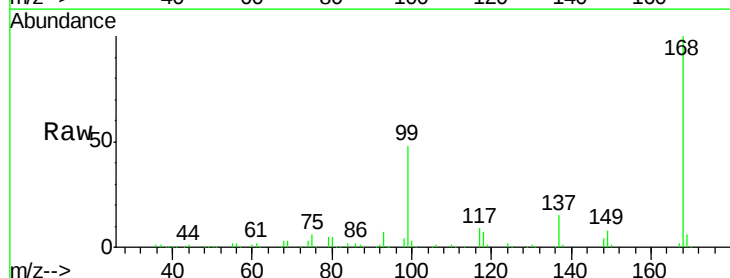
Tgt Ion: 117 Resp: 20922

Ion Ratio Lower Upper

117 100

119 5.9 78.4 117.6#

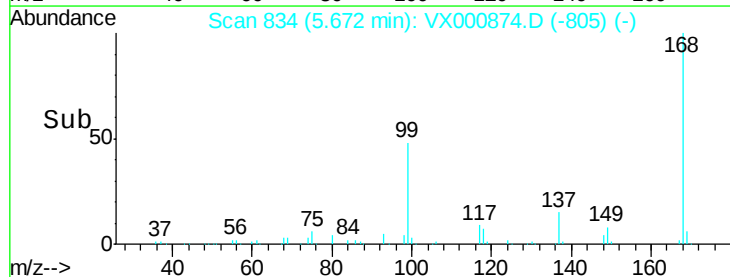
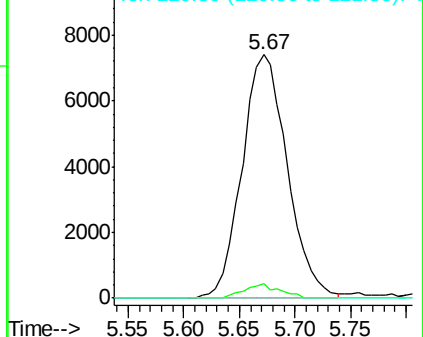
121 0.0 25.4 38.0#

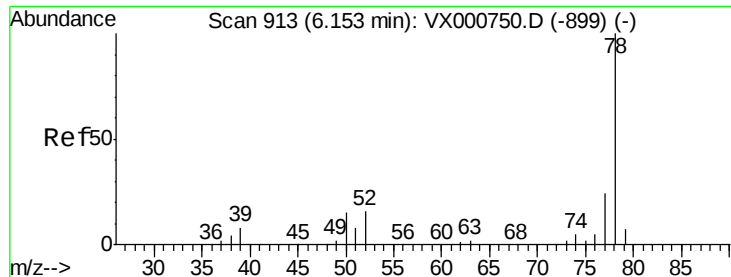


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#40

Benzene

Concen: 0.26 ug/l

RT: 6.15 min Scan# 913

Delta R.T. -0.00 min

Lab File: VX000874.D

Acq: 14 Apr 2018 14:59

Instrument :

MSVOA_X

ClientSampleId :

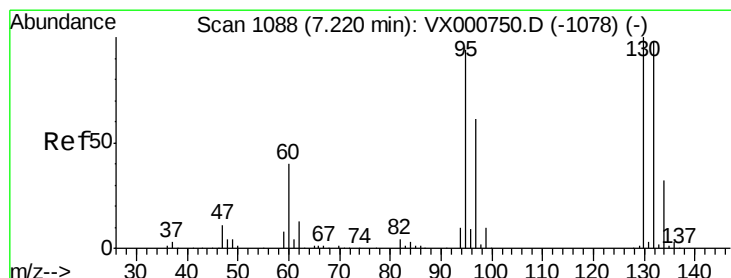
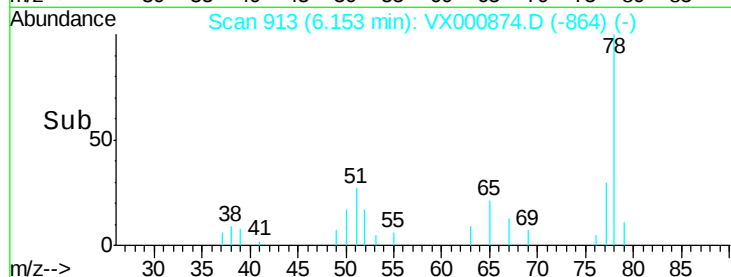
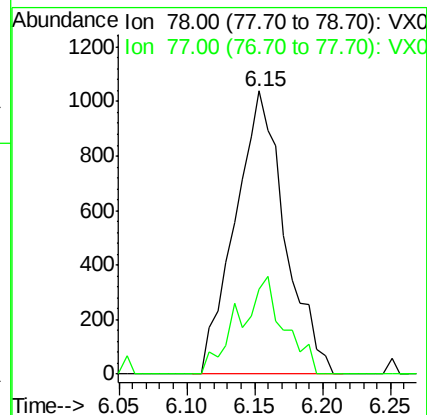
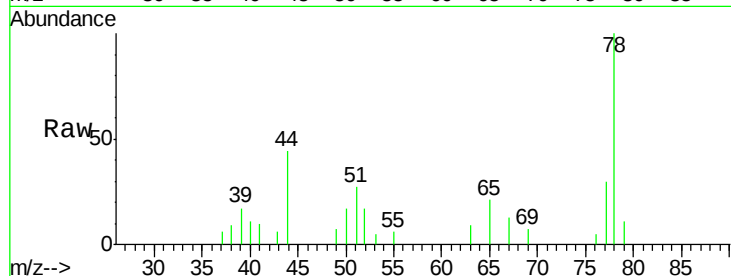
LF012RW164-180411

Tgt Ion: 78 Resp: 2653

Ion Ratio Lower Upper

78 100

77 29.9 19.0 28.6#



#44

Trichloroethene

Concen: 0.56 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VX000874.D

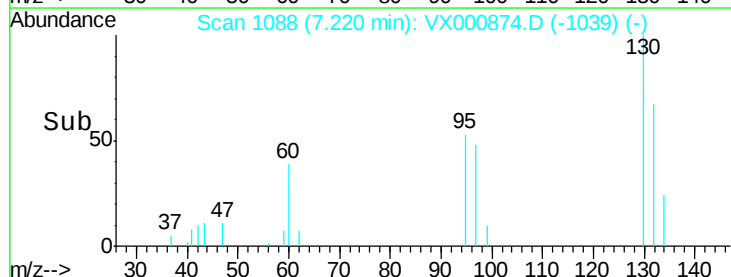
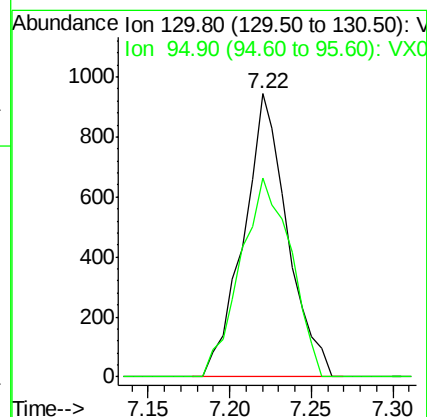
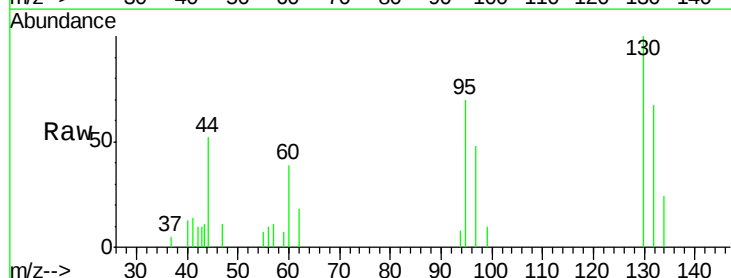
Acq: 14 Apr 2018 14:59

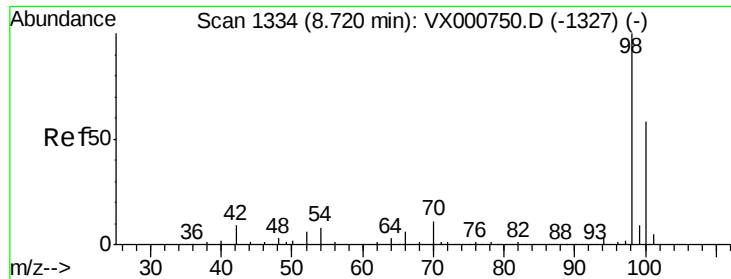
Tgt Ion: 130 Resp: 1772

Ion Ratio Lower Upper

130 100

95 70.3 0.0 187.0





#50

Toluene-d8

Concen: 48.16 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. 0.01 min

Lab File: VX000874.D

Acq: 14 Apr 2018 14:59

Instrument :

MSVOA_X

ClientSampleId :

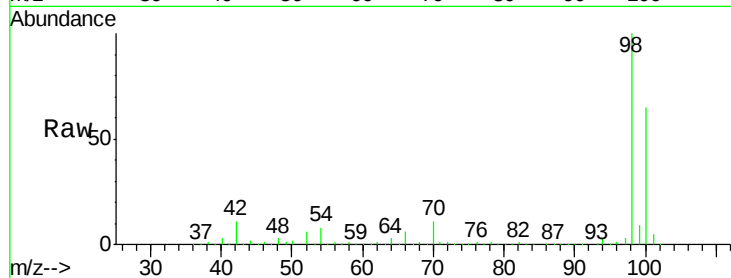
LF012RW164-180411

Tgt Ion: 98 Resp: 457269

Ion Ratio Lower Upper

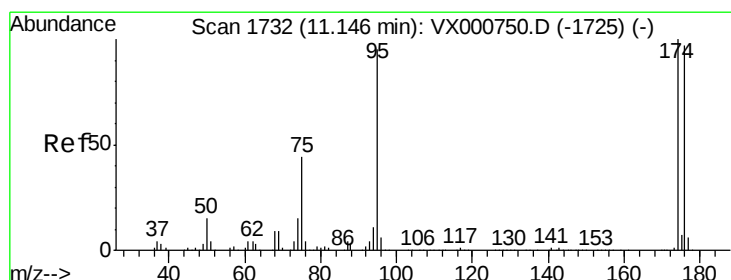
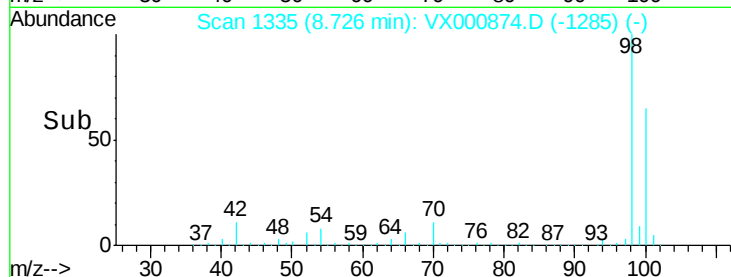
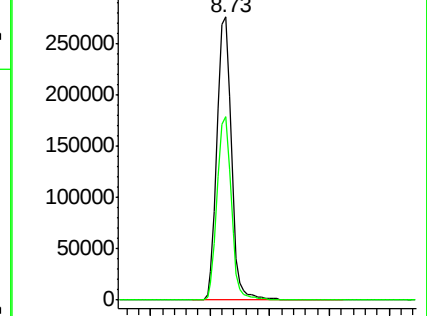
98 100

100 64.3 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 44.74 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VX000874.D

Acq: 14 Apr 2018 14:59

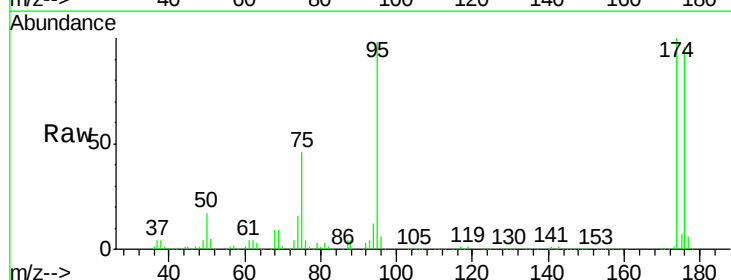
Tgt Ion: 95 Resp: 175770

Ion Ratio Lower Upper

95 100

174 98.6 0.0 198.4

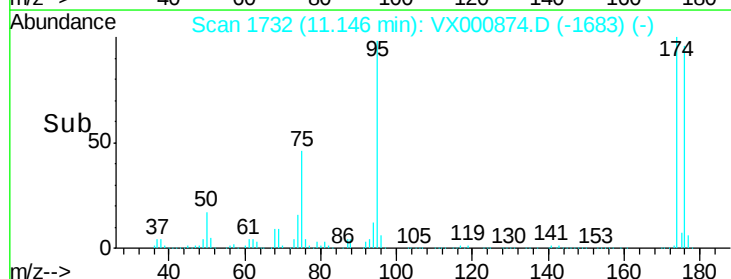
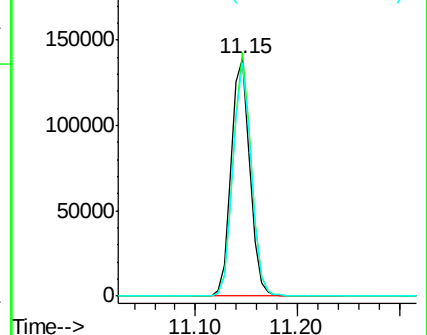
176 96.0 0.0 194.4

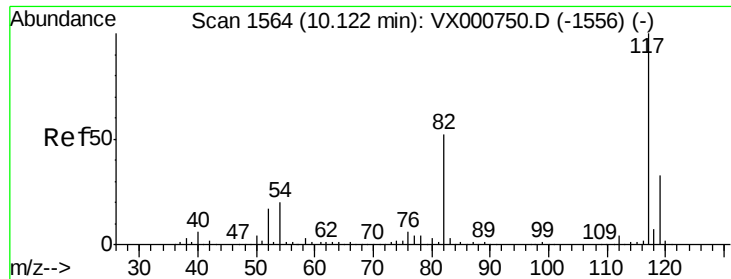


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

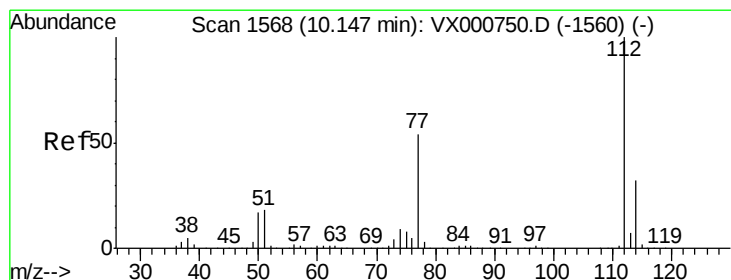
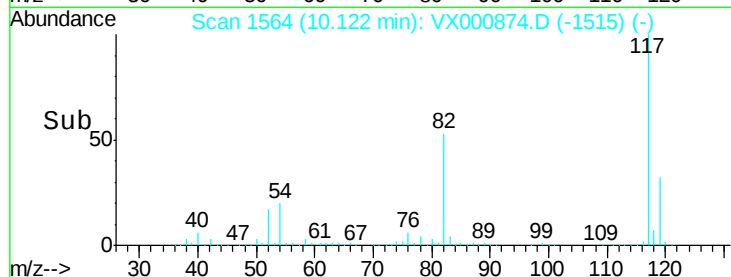
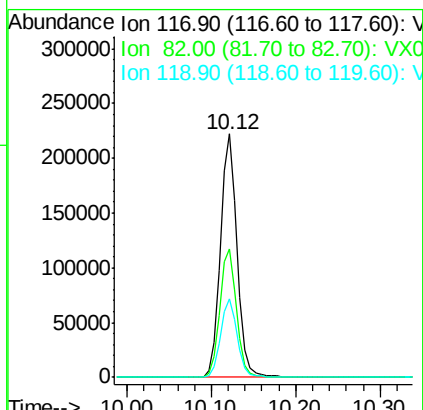
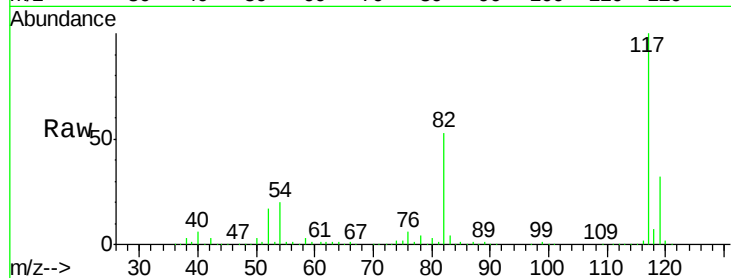




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000874.D
Acq: 14 Apr 2018 14:59

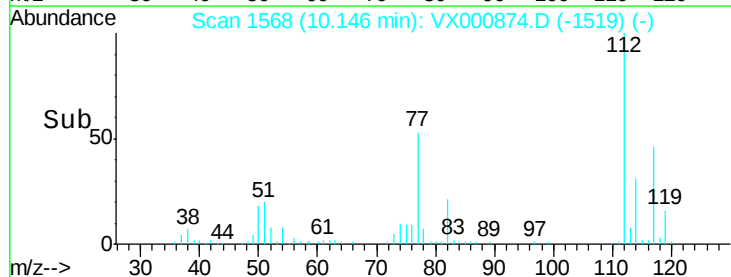
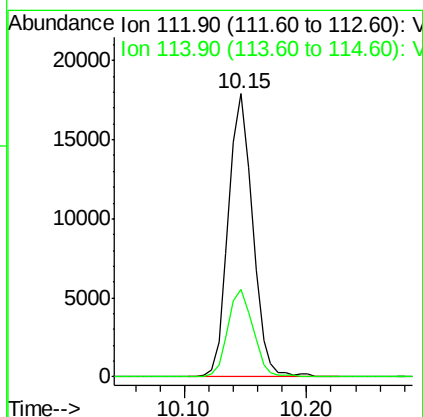
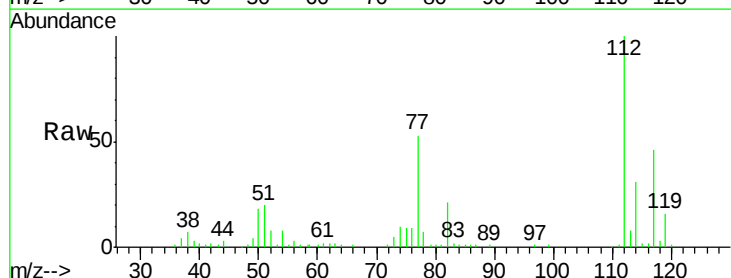
Instrument :
MSVOA_X
ClientSampleId :
LF012RW164-180411

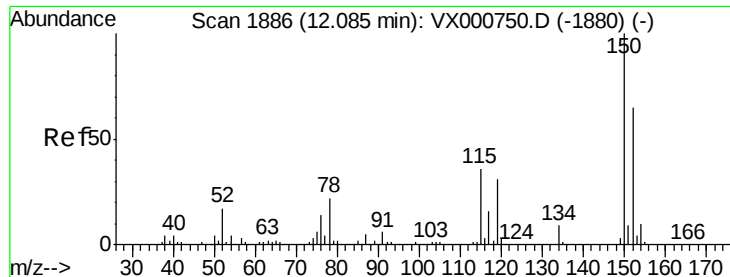
Tgt Ion:117 Resp: 303786
Ion Ratio Lower Upper
117 100
82 52.7 41.9 62.9
119 32.2 26.0 39.0



#65
Chlorobenzene
Concen: 3.23 ug/l
RT: 10.15 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX000874.D
Acq: 14 Apr 2018 14:59

Tgt Ion:112 Resp: 24718
Ion Ratio Lower Upper
112 100
114 31.1 25.8 38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000874.D

Acq: 14 Apr 2018 14:59

Instrument :

MSVOA_X

ClientSampleId :

LF012RW164-180411

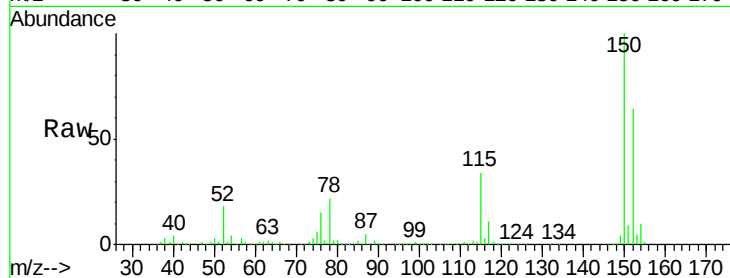
Tgt Ion:152 Resp: 198630

Ion Ratio Lower Upper

152 100

115 53.6 37.9 113.7

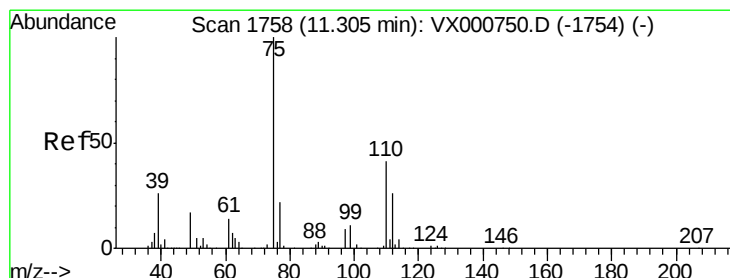
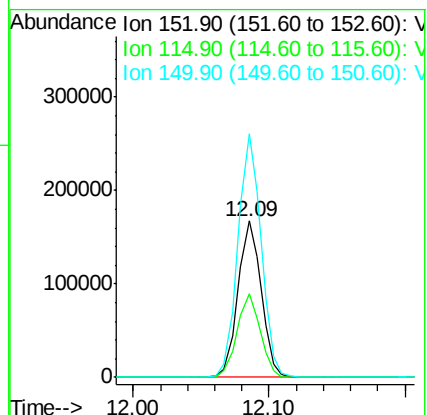
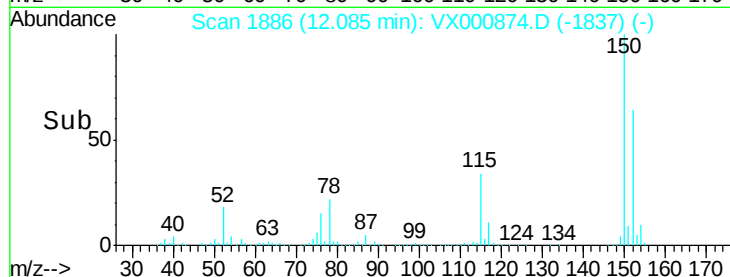
150 155.5 0.0 348.0



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: 25.19 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000874.D

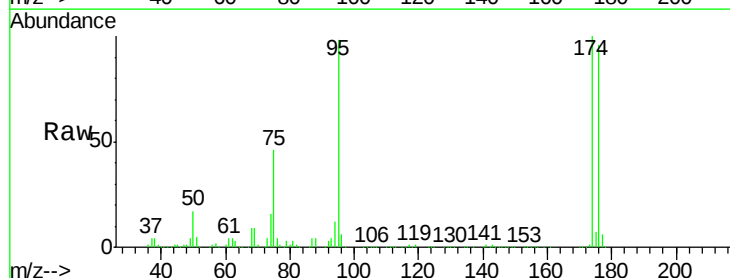
Acq: 14 Apr 2018 14:59

Tgt Ion: 75 Resp: 86274

Ion Ratio Lower Upper

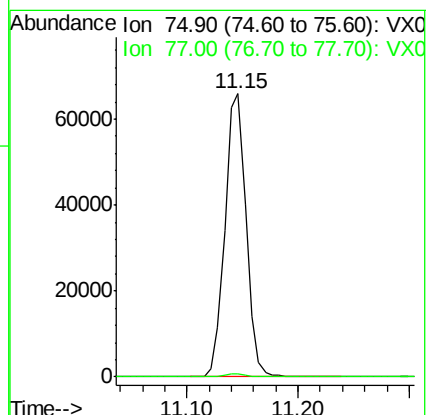
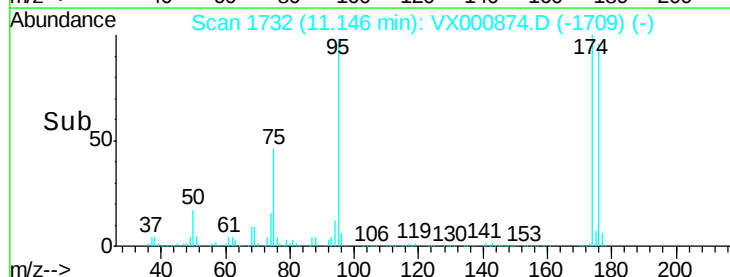
75 100

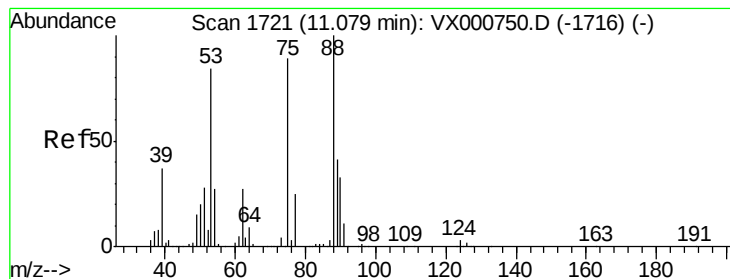
77 1.2 20.5 61.5#



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: 69.28 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.07 min

Lab File: VX000874.D

Acq: 14 Apr 2018 14:59

Instrument :

MSVOA_X

ClientSampleId :

LF012RW164-180411

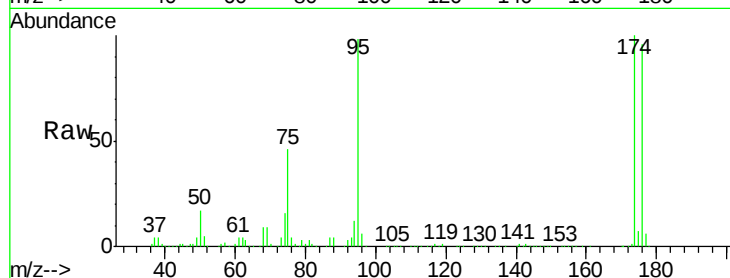
Tgt Ion: 75 Resp: 86274

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

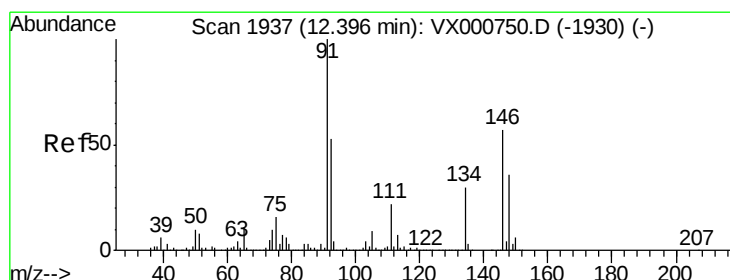
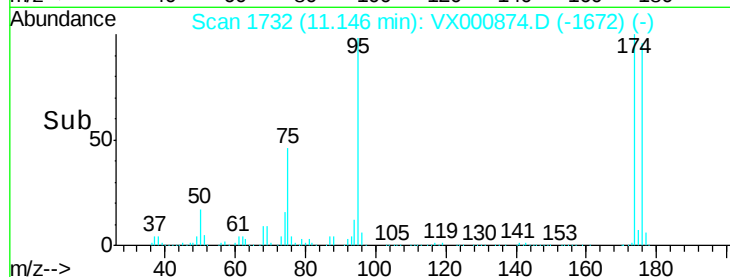
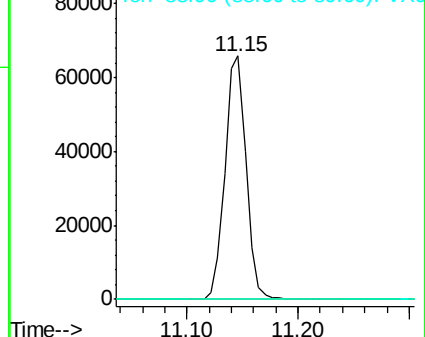
89 0.0 40.9 61.3#



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: 1.27 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VX000874.D

Acq: 14 Apr 2018 14:59

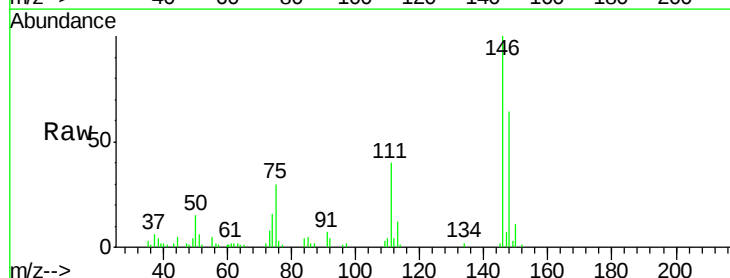
Tgt Ion: 146 Resp: 8376

Ion Ratio Lower Upper

146 100

111 40.1 18.9 56.7

148 64.8 32.0 96.2



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

