

Data Path : W:\HPCHEM1\MSVOA\_X\DATA\VX041418\  
 Data File : VX000868.D  
 Acq On : 14 Apr 2018 12:06  
 Operator : JC/MD  
 Sample : J2353-01 10X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS032MW008-180410

Quant Time: Apr 16 05:48:52 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  | 257795   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 344414   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 309907   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 191756   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.08  | 65   | 149436   | 45.97 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.94% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 120365   | 45.36 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.72% |          |
| 50) Toluene-d8              | 8.72  | 98   | 473174   | 47.89 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.78% |          |
| 62) 4-Bromofluorobenzene    | 11.15 | 95   | 175944   | 43.04 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 86.08% |          |

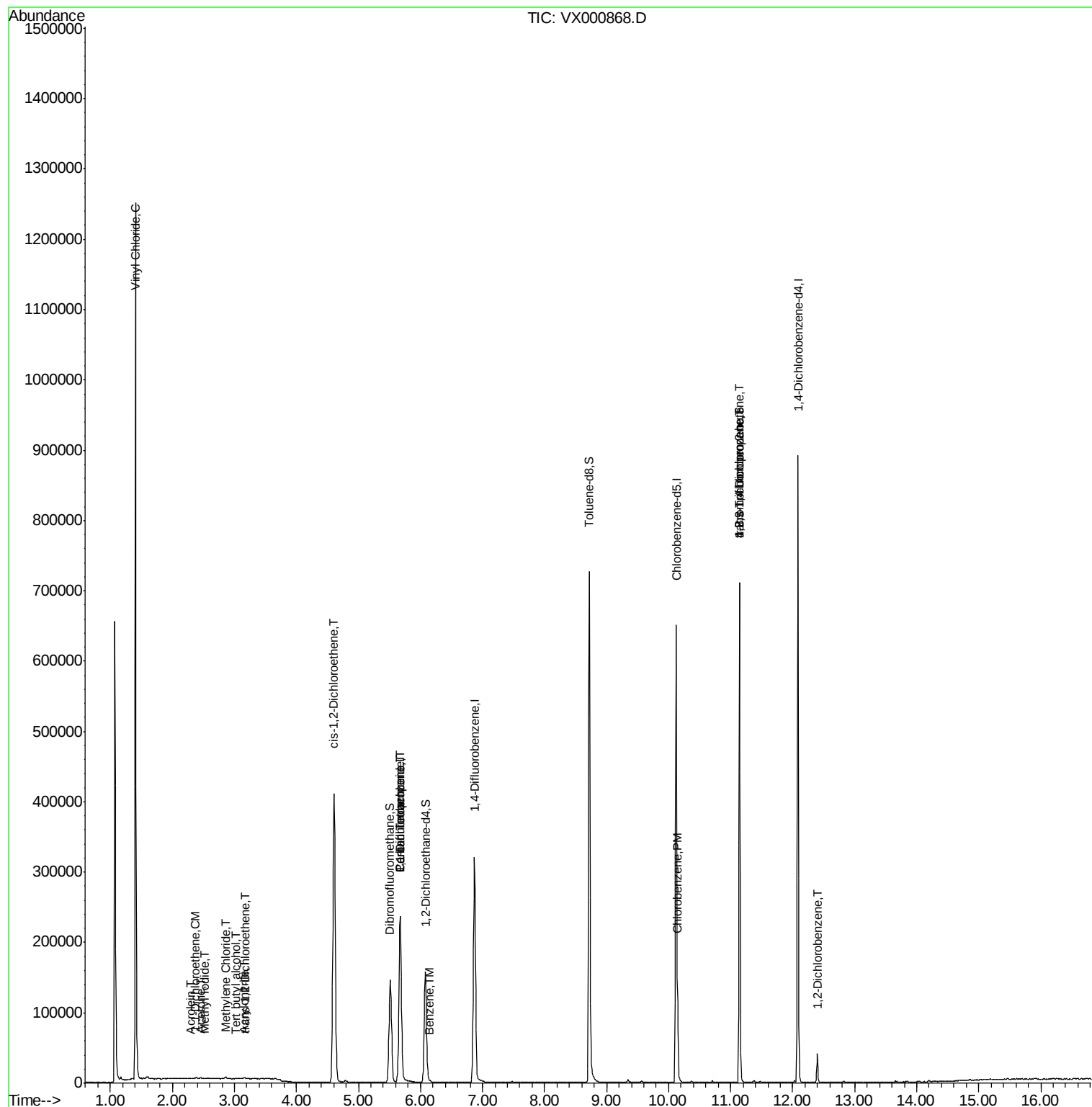
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 4) Vinyl Chloride              | 1.40  | 62   | 791540   | 282.04 | ug/l   | 97     |
| 5) Bromomethane                | 1.65  | 94   | 553      | Below  | Cal    | 95     |
| 10) Methyl Iodide              | 2.52  | 142  | 384      | 8.40   | ug/l # | 48     |
| 11) Tert butyl alcohol         | 3.02  | 59   | 243      | 0.42   | ug/l # | 72     |
| 12) 1,1-Dichloroethene         | 2.37  | 96   | 788      | 0.33   | ug/l   | 93     |
| 13) Acrolein                   | 2.30  | 56   | 331      | 1.18   | ug/l   | 87     |
| 15) Acrylonitrile              | 3.15  | 53   | 274      | 0.22   | ug/l # | 78     |
| 16) Acetone                    | 2.46  | 43   | 1300     | 1.16   | ug/l   | 91     |
| 20) Methylene Chloride         | 2.87  | 84   | 1300     | 0.50   | ug/l # | 75     |
| 21) trans-1,2-Dichloroethene   | 3.17  | 96   | 613      | 0.23   | ug/l   | 90     |
| 27) cis-1,2-Dichloroethene     | 4.60  | 96   | 267849   | 90.46  | ug/l   | 89     |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 15112    | 3.98   | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 21988    | 5.18   | ug/l # | 15     |
| 40) Benzene                    | 6.15  | 78   | 2223     | 0.21   | ug/l   | 96     |
| 65) Chlorobenzene              | 10.15 | 112  | 41593    | 5.34   | ug/l   | 98     |
| 76) 1,2,3-Trichloropropane     | 11.15 | 75   | 86253    | 26.08  | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.15 | 75   | 86253    | 71.75  | ug/l # | 11     |
| 91) 1,2-Dichlorobenzene        | 12.40 | 146  | 13848    | 2.17   | ug/l   | 99     |

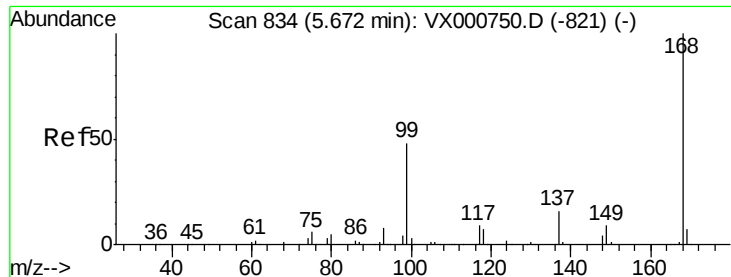
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA\_X\DATA\VX041418\  
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Quant Time: Apr 16 05:48:52 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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX000868.D

Acq: 14 Apr 2018 12:06

Instrument :

MSVOA\_X

ClientSampleId :

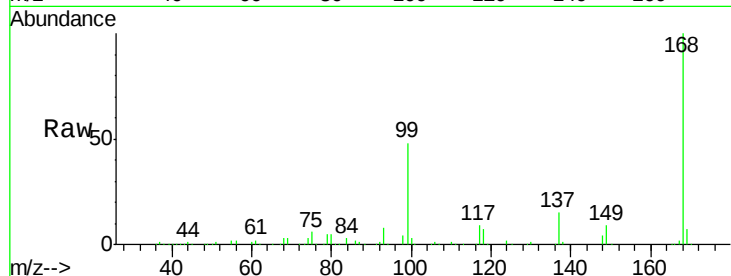
SS032MW008-180410

Tgt Ion:168 Resp: 257795

Ion Ratio Lower Upper

168 100

99 48.1 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

100000

80000

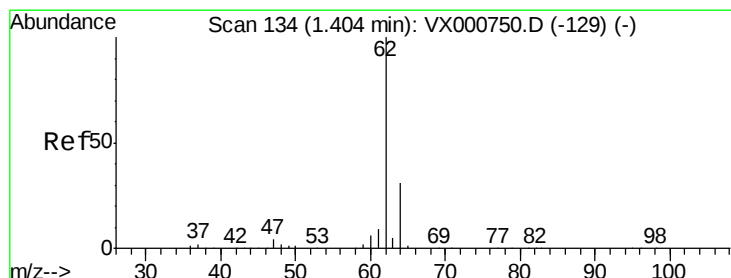
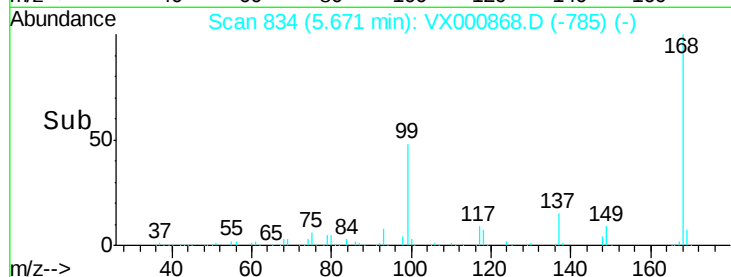
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 282.04 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX000868.D

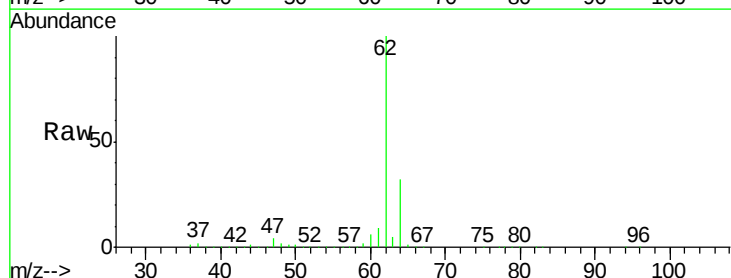
Acq: 14 Apr 2018 12:06

Tgt Ion: 62 Resp: 791540

Ion Ratio Lower Upper

62 100

64 32.2 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

800000

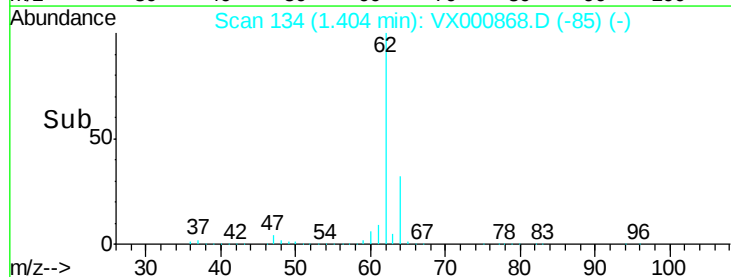
600000

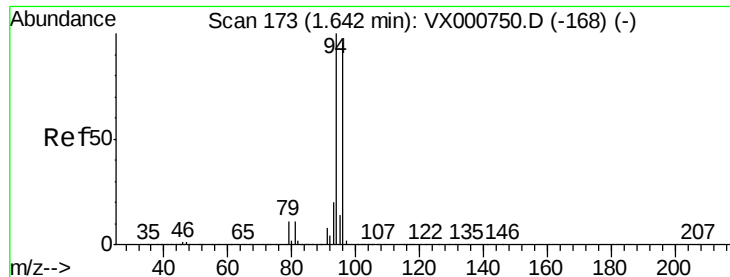
400000

200000

0

Time--> 1.30 1.40 1.50 1.60





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX000868.D

Acq: 14 Apr 2018 12:06

Instrument :

MSVOA\_X

ClientSampleId :

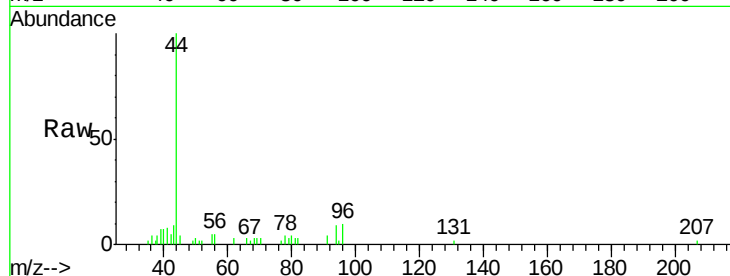
SS032MW008-180410

Tgt Ion: 94 Resp: 553

Ion Ratio Lower Upper

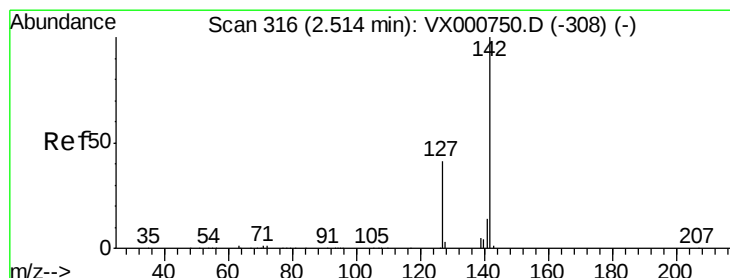
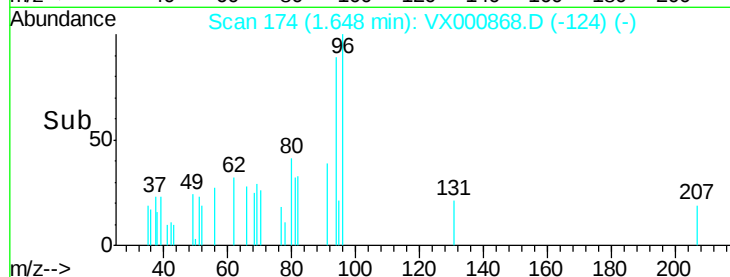
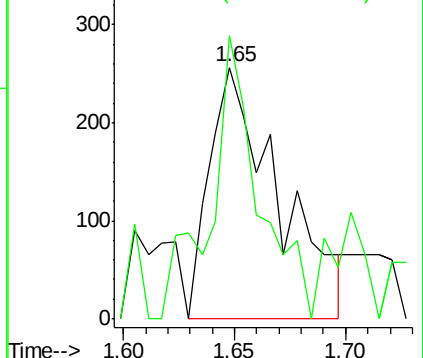
94 100

96 91.8 77.0 115.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 8.40 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX000868.D

Acq: 14 Apr 2018 12:06

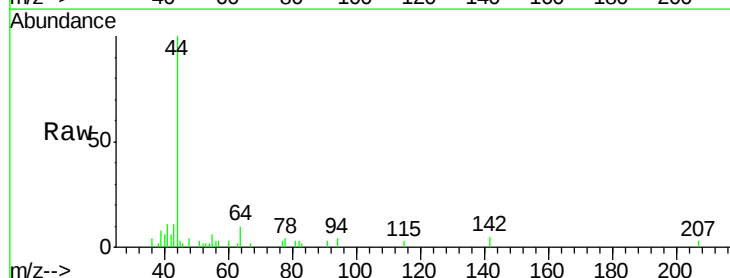
Tgt Ion: 142 Resp: 384

Ion Ratio Lower Upper

142 100

127 4.9 32.6 49.0#

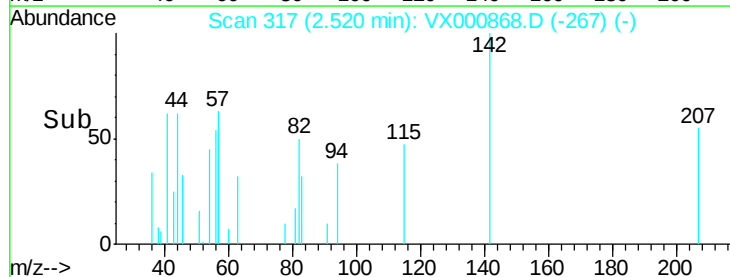
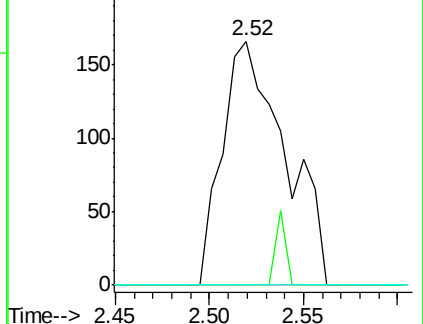
141 0.0 11.5 17.3#

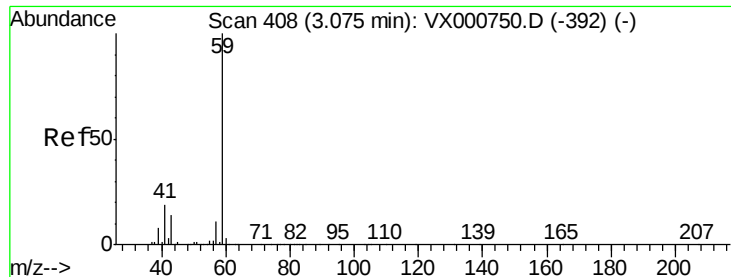


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



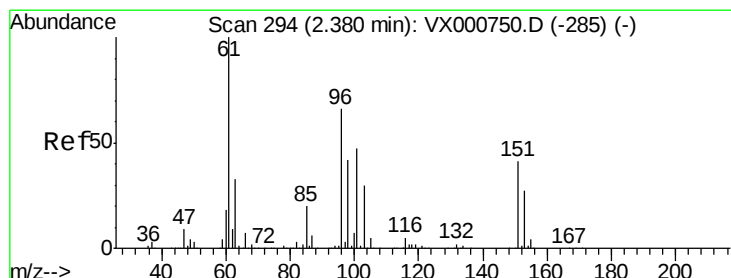
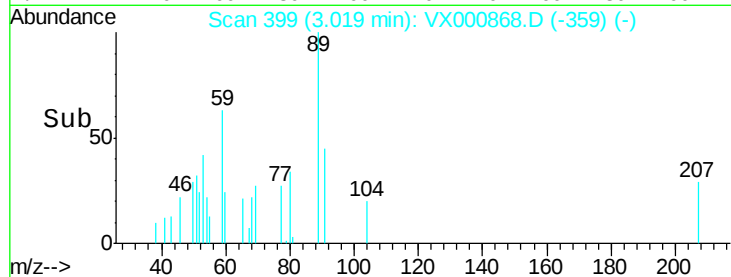
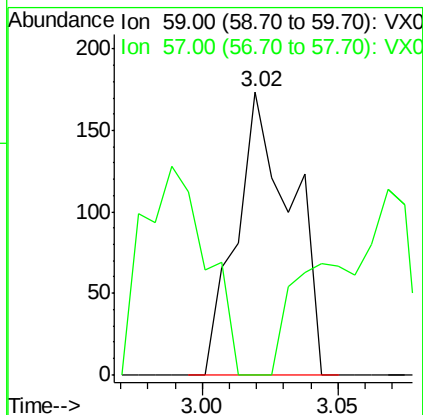
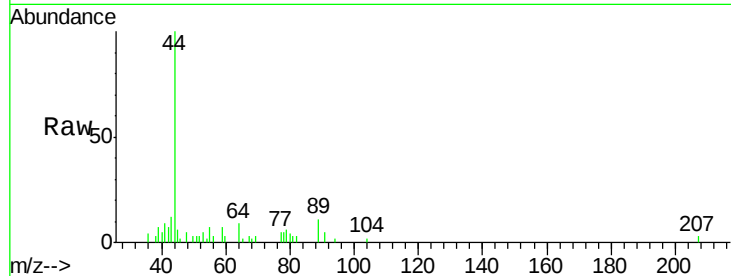


#11

Tert butyl alcohol  
 Concen: 0.42 ug/l  
 RT: 3.02 min Scan# 399  
 Delta R.T. -0.06 min  
 Lab File: VX000868.D  
 Acq: 14 Apr 2018 12:06

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS032MW008-180410

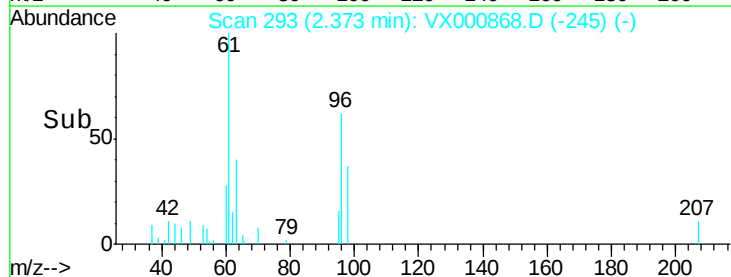
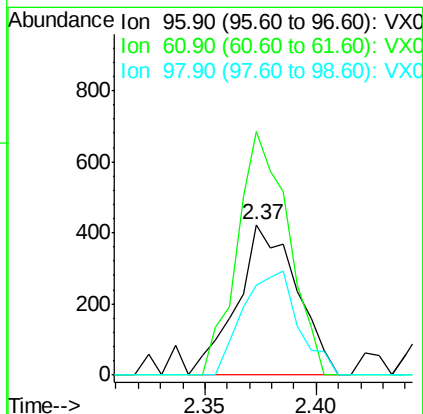
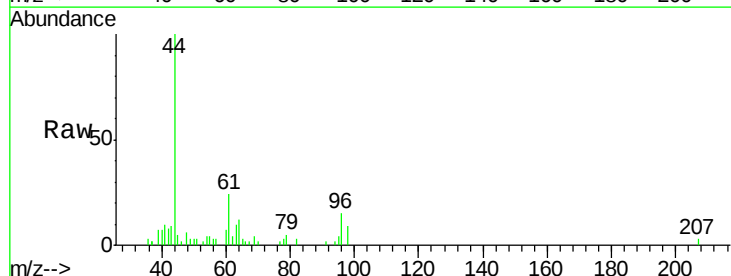
Tgt Ion: 59 Resp: 243  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.4 12.6#

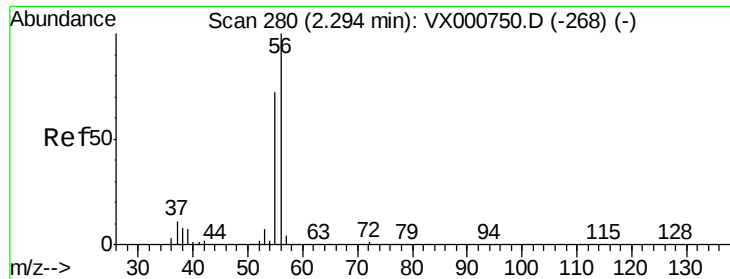


#12

1,1-Dichloroethene  
 Concen: 0.33 ug/l  
 RT: 2.37 min Scan# 293  
 Delta R.T. -0.01 min  
 Lab File: VX000868.D  
 Acq: 14 Apr 2018 12:06

Tgt Ion: 96 Resp: 788  
 Ion Ratio Lower Upper  
 96 100  
 61 161.6 120.5 180.7  
 98 59.9 50.9 76.3





#13

Acrolein

Concen: 1.18 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX000868.D

Acq: 14 Apr 2018 12:06

Instrument :

MSVOA\_X

ClientSampleId :

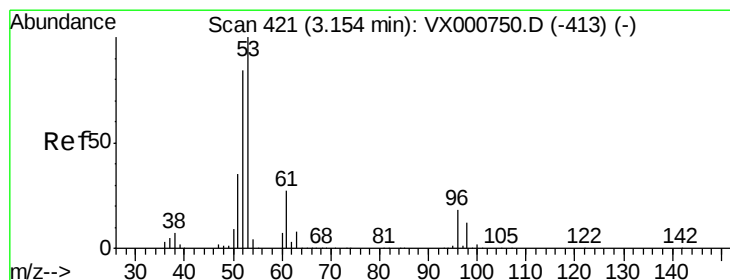
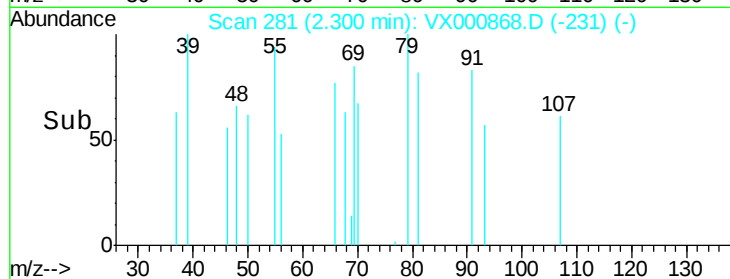
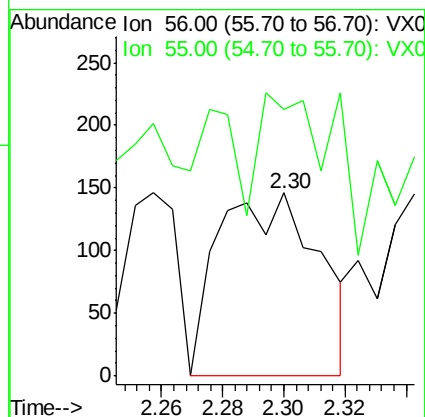
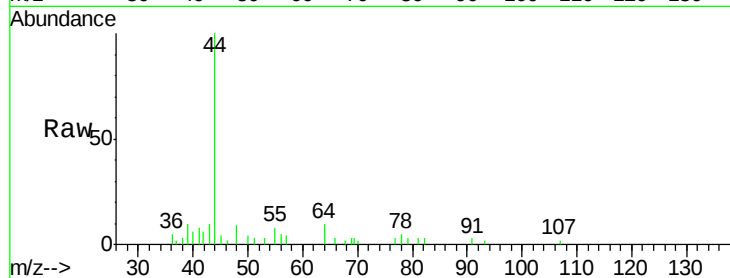
SS032MW008-180410

Tgt Ion: 56 Resp: 331

Ion Ratio Lower Upper

56 100

55 62.8 58.7 88.1



#15

Acrylonitrile

Concen: 0.22 ug/l

RT: 3.15 min Scan# 421

Delta R.T. -0.00 min

Lab File: VX000868.D

Acq: 14 Apr 2018 12:06

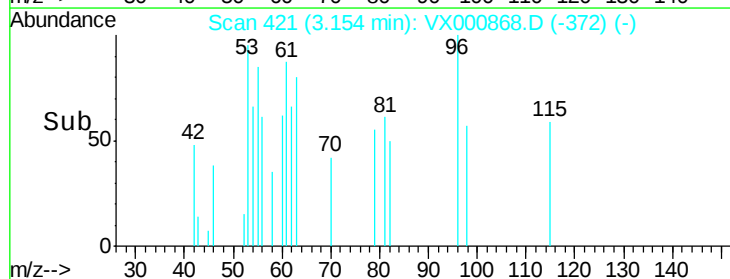
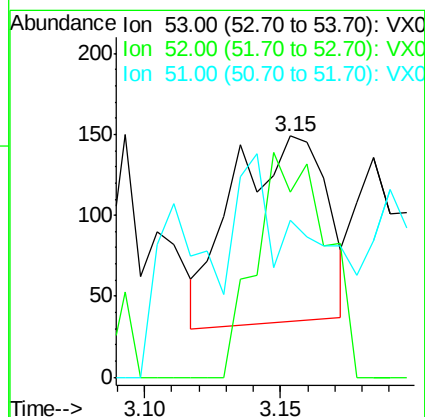
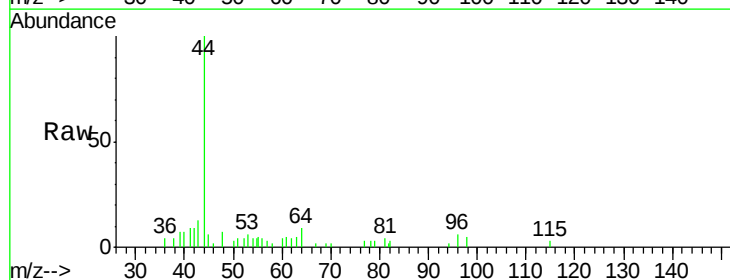
Tgt Ion: 53 Resp: 274

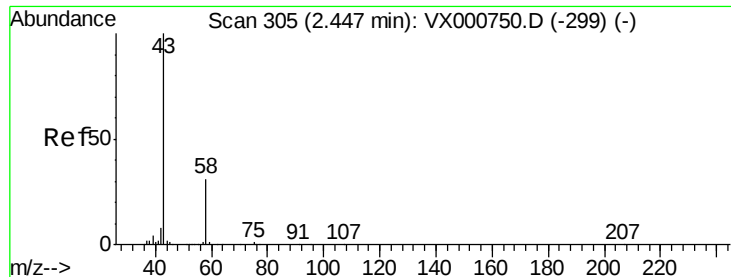
Ion Ratio Lower Upper

53 100

52 89.8 66.5 99.7

51 68.6 28.8 43.2#





#16

Acetone

Concen: 1.16 ug/l

RT: 2.46 min Scan# 307

Delta R.T. 0.01 min

Lab File: VX000868.D

Acq: 14 Apr 2018 12:06

Instrument :

MSVOA\_X

ClientSampleId :

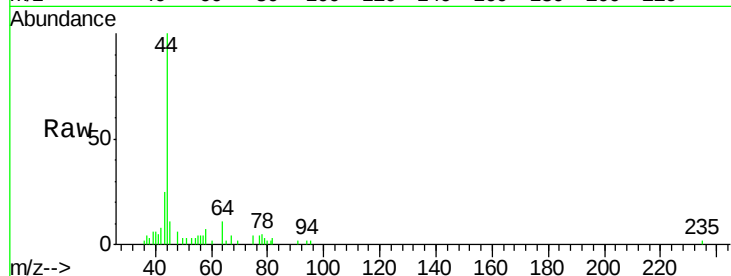
SS032MW008-180410

Tgt Ion: 43 Resp: 1300

Ion Ratio Lower Upper

43 100

58 35.9 24.6 37.0

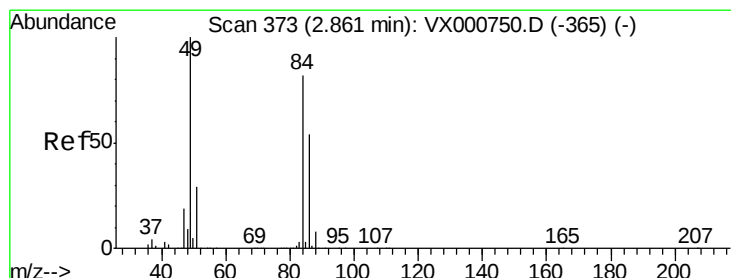
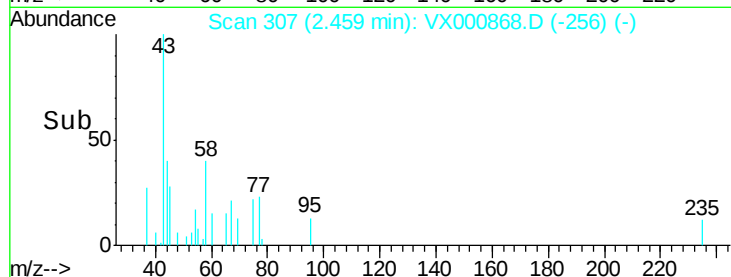


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.46

Time-->



#20

Methylene Chloride

Concen: 0.50 ug/l

RT: 2.87 min Scan# 374

Delta R.T. 0.01 min

Lab File: VX000868.D

Acq: 14 Apr 2018 12:06

Tgt Ion: 84 Resp: 1300

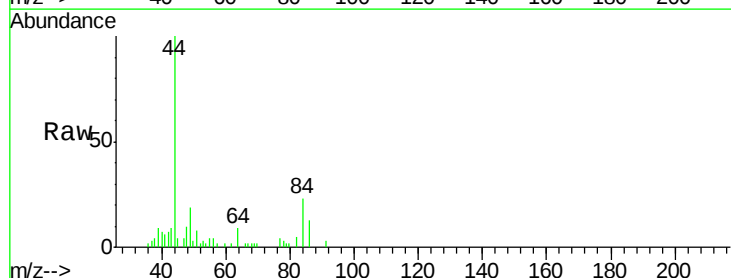
Ion Ratio Lower Upper

84 100

49 84.2 98.1 147.1#

51 24.7 28.9 43.3#

86 57.7 52.7 79.1



Abundance Ion 83.90 (83.60 to 84.60): VX0

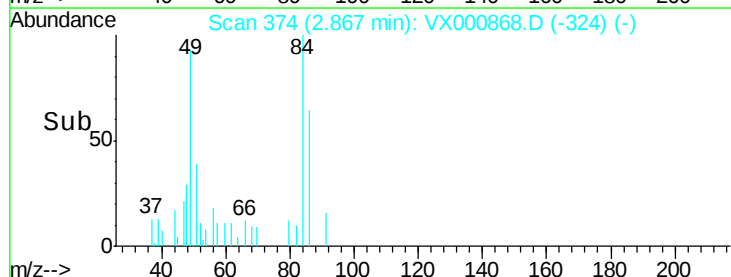
Ion 48.90 (48.60 to 49.60): VX0

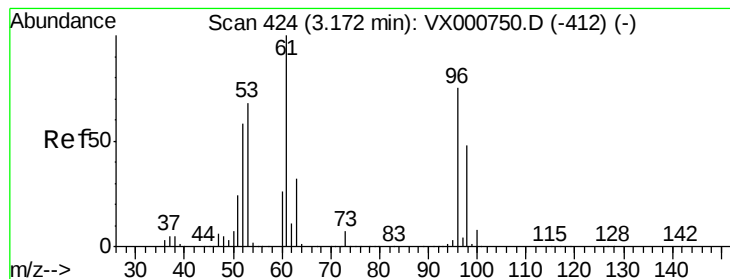
Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

2.87

Time-->





#21

trans-1,2-Dichloroethene

Concen: 0.23 ug/l

RT: 3.17 min Scan# 423

Delta R.T. -0.01 min

Lab File: VX000868.D

Acq: 14 Apr 2018 12:06

Instrument :

MSVOA\_X

ClientSampleId :

SS032MW008-180410

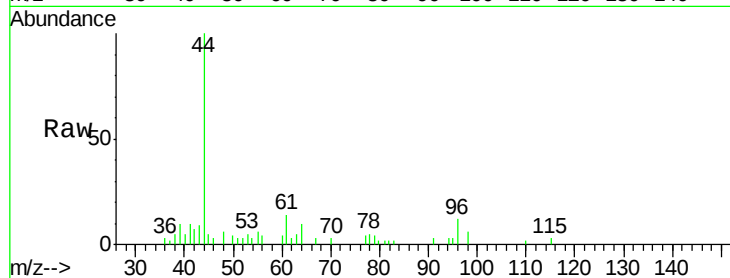
Tgt Ion: 96 Resp: 613

Ion Ratio Lower Upper

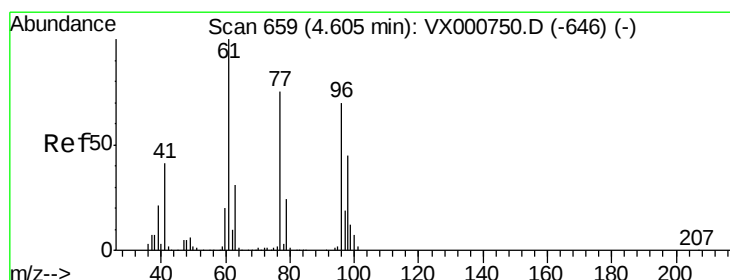
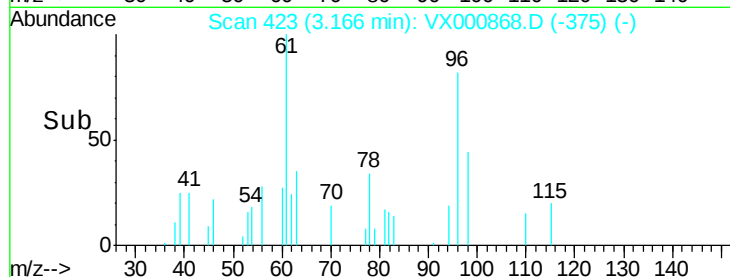
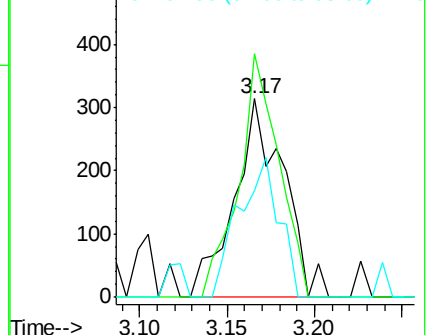
96 100

61 122.6 106.2 159.2

98 53.5 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: 90.46 ug/l

RT: 4.60 min Scan# 659

Delta R.T. -0.00 min

Lab File: VX000868.D

Acq: 14 Apr 2018 12:06

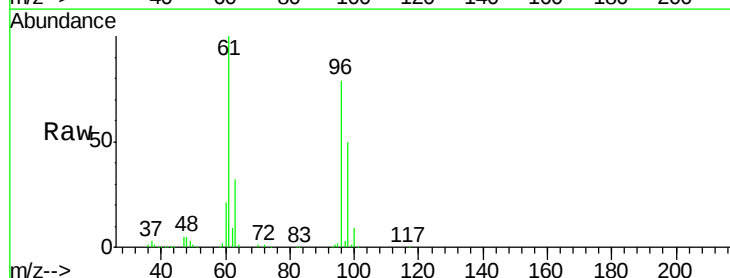
Tgt Ion: 96 Resp: 267849

Ion Ratio Lower Upper

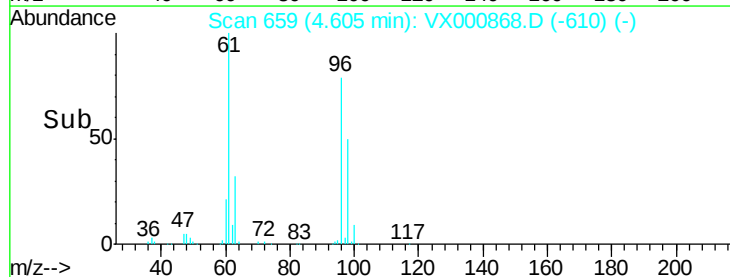
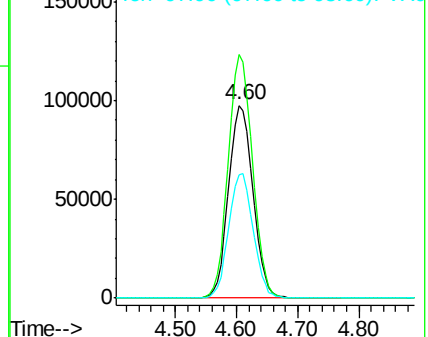
96 100

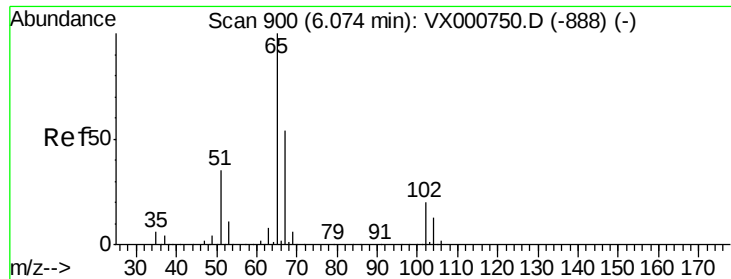
61 125.7 0.0 292.4

98 64.8 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





#33

1,2-Dichloroethane-d4

Concen: 45.97 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.01 min

Lab File: VX000868.D

Acq: 14 Apr 2018 12:06

Instrument :

MSVOA\_X

ClientSampleId :

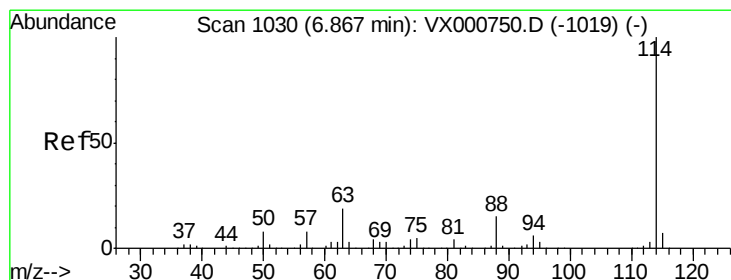
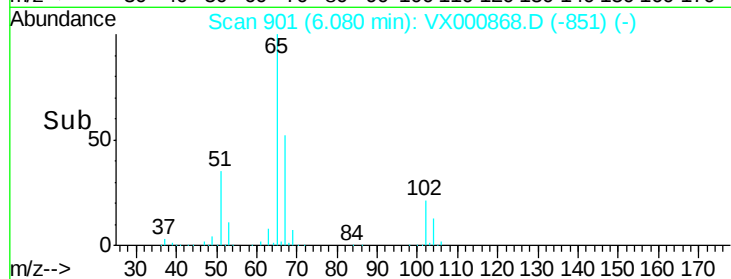
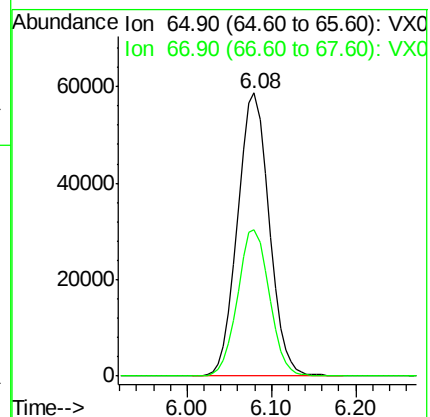
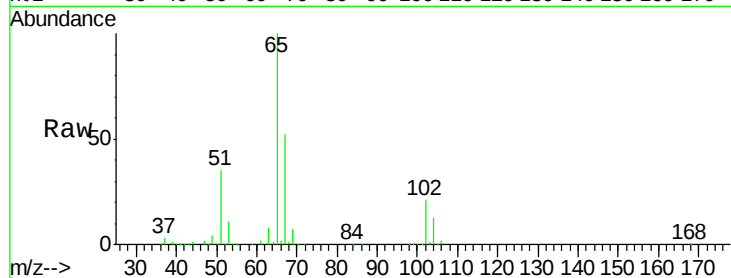
SS032MW008-180410

Tgt Ion: 65 Resp: 149436

Ion Ratio Lower Upper

65 100

67 52.1 0.0 103.8



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VX000868.D

Acq: 14 Apr 2018 12:06

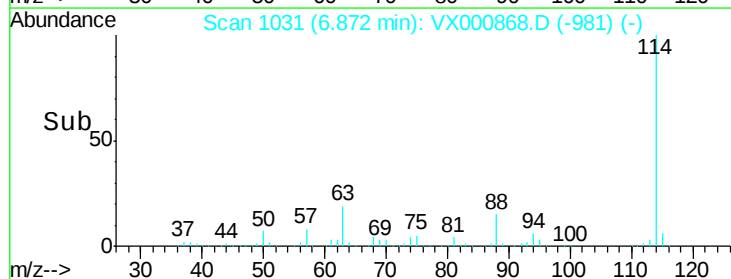
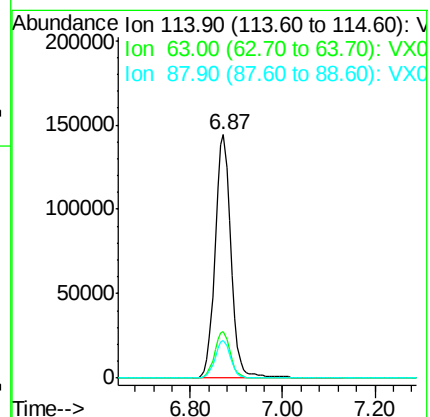
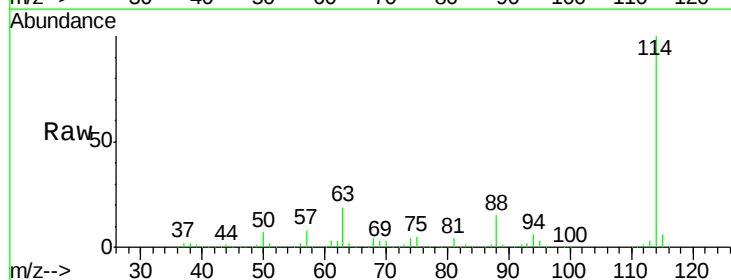
Tgt Ion: 114 Resp: 344414

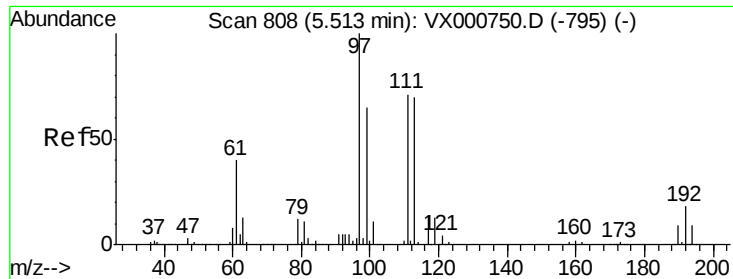
Ion Ratio Lower Upper

114 100

63 19.0 0.0 38.4

88 15.2 0.0 31.0





#35

Dibromofluoromethane

Concen: 45.36 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000868.D

Acq: 14 Apr 2018 12:06

Instrument :

MSVOA\_X

ClientSampleId :

SS032MW008-180410

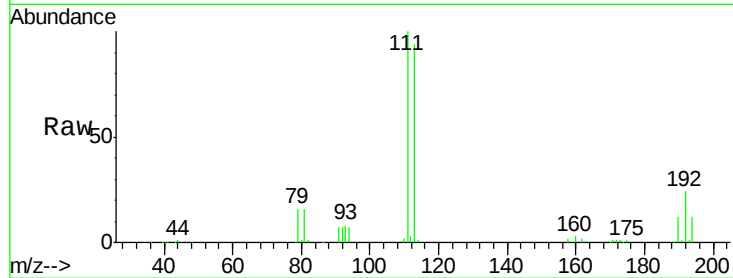
Tgt Ion:113 Resp: 120365

Ion Ratio Lower Upper

113 100

111 101.7 81.5 122.3

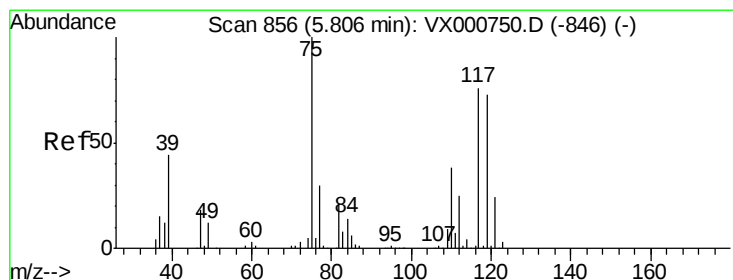
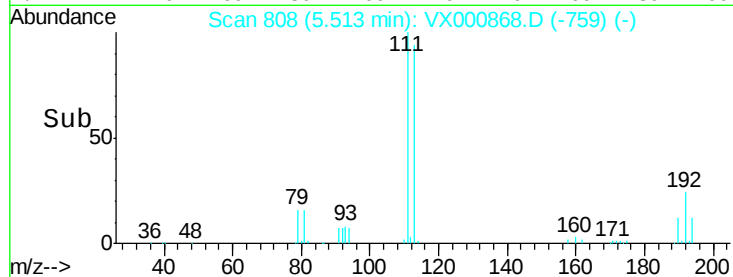
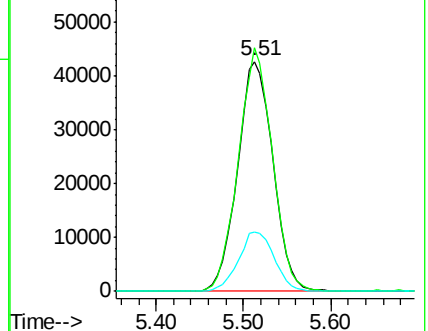
192 26.0 20.4 30.6



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: 3.98 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX000868.D

Acq: 14 Apr 2018 12:06

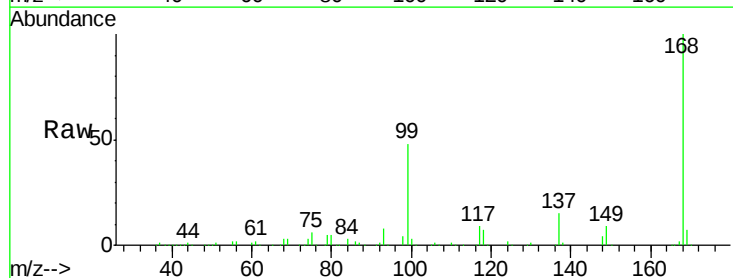
Tgt Ion: 75 Resp: 15112

Ion Ratio Lower Upper

75 100

110 9.8 19.2 57.6#

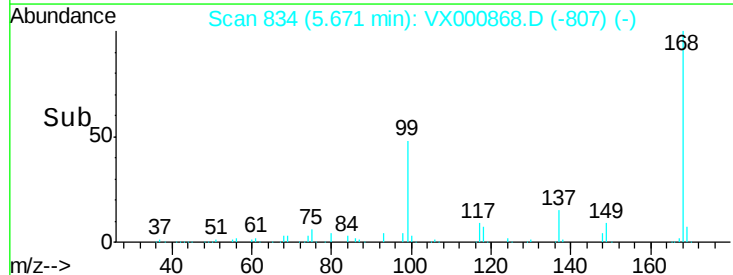
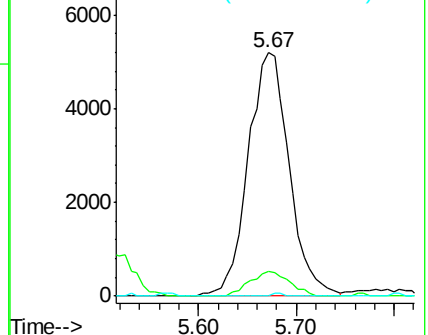
77 0.3 25.4 38.2#

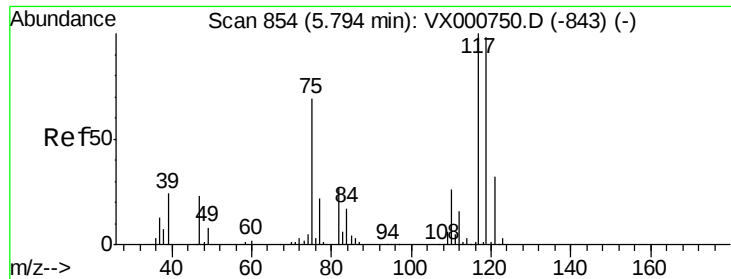


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.18 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX000868.D

Acq: 14 Apr 2018 12:06

Instrument :

MSVOA\_X

ClientSampleId :

SS032MW008-180410

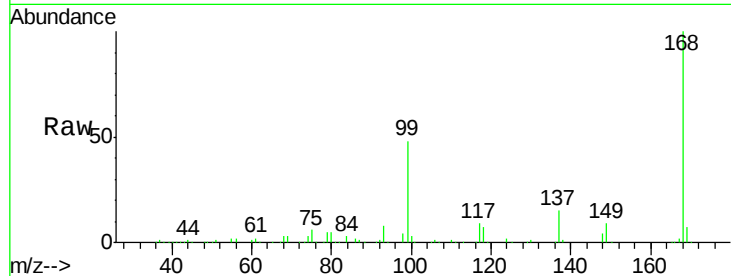
Tgt Ion: 117 Resp: 21988

Ion Ratio Lower Upper

117 100

119 5.0 78.4 117.6#

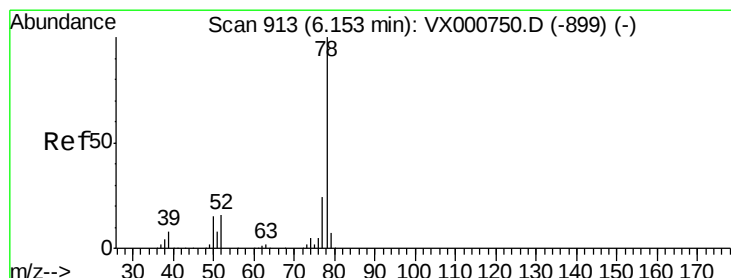
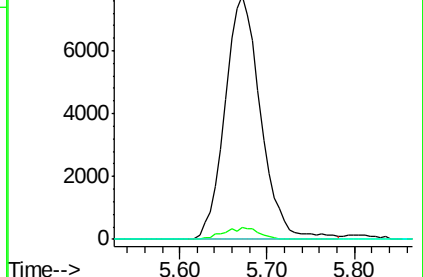
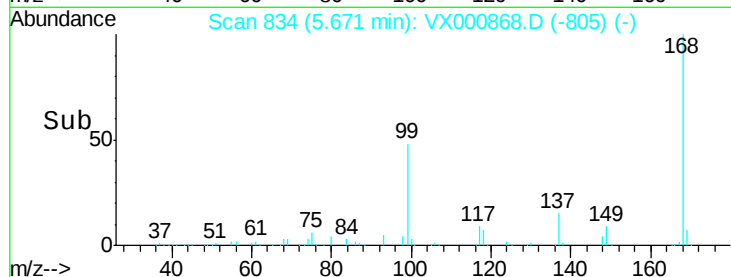
121 0.0 25.4 38.0#



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: 0.21 ug/l

RT: 6.15 min Scan# 912

Delta R.T. -0.01 min

Lab File: VX000868.D

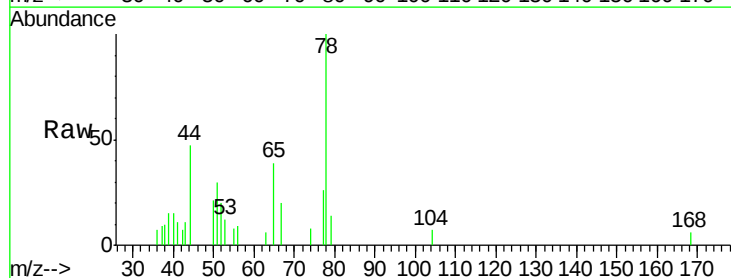
Acq: 14 Apr 2018 12:06

Tgt Ion: 78 Resp: 2223

Ion Ratio Lower Upper

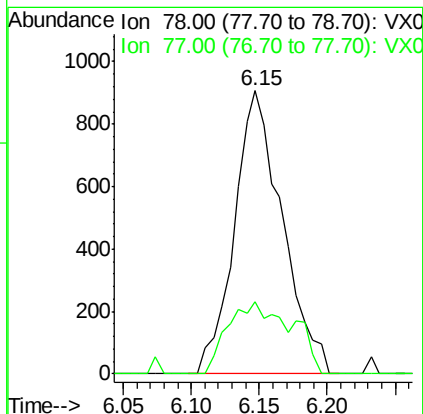
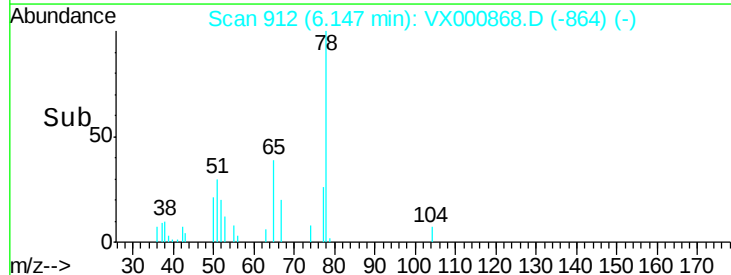
78 100

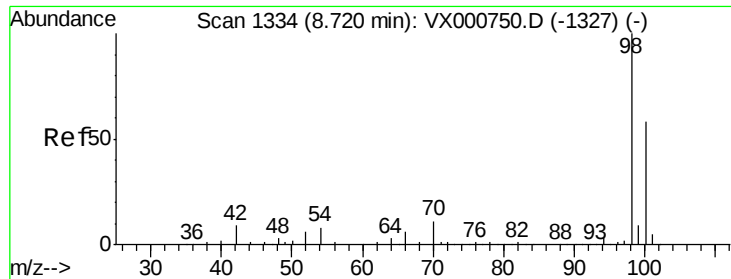
77 25.7 19.0 28.6



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#50

Toluene-d8

Concen: 47.89 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX000868.D

Acq: 14 Apr 2018 12:06

Instrument :

MSVOA\_X

ClientSampleId :

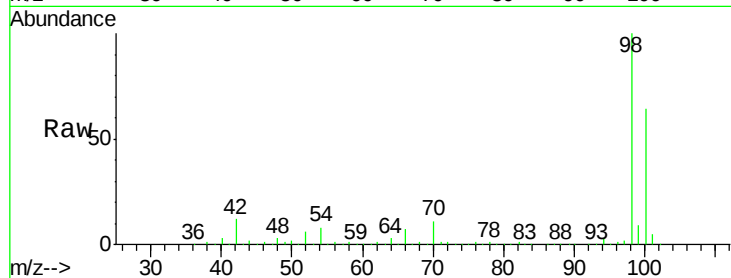
SS032MW008-180410

Tgt Ion: 98 Resp: 473174

Ion Ratio Lower Upper

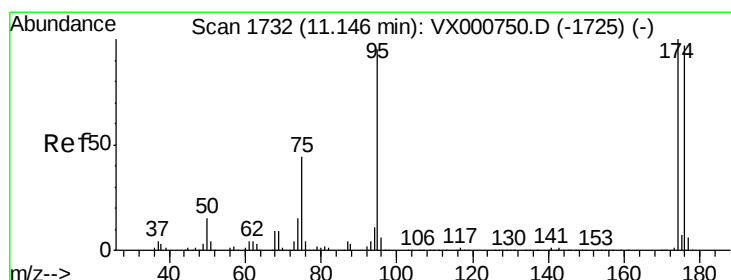
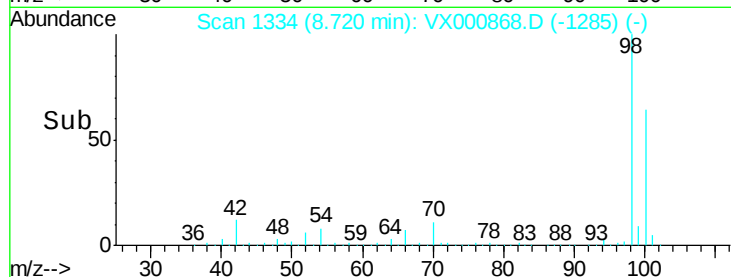
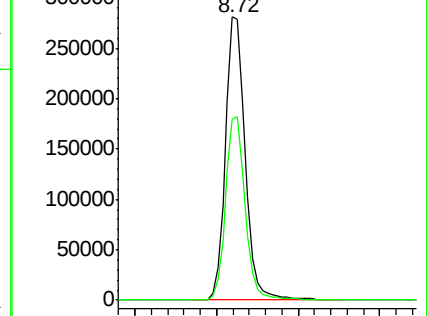
98 100

100 64.5 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: 43.04 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VX000868.D

Acq: 14 Apr 2018 12:06

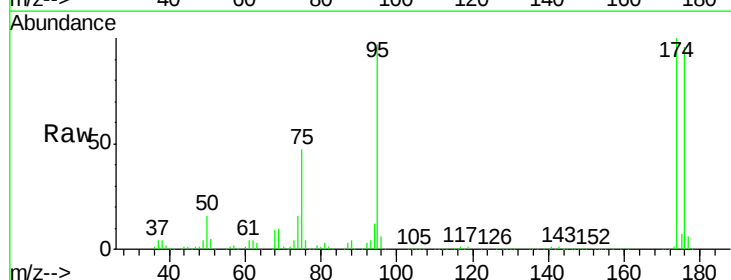
Tgt Ion: 95 Resp: 175944

Ion Ratio Lower Upper

95 100

174 99.3 0.0 198.4

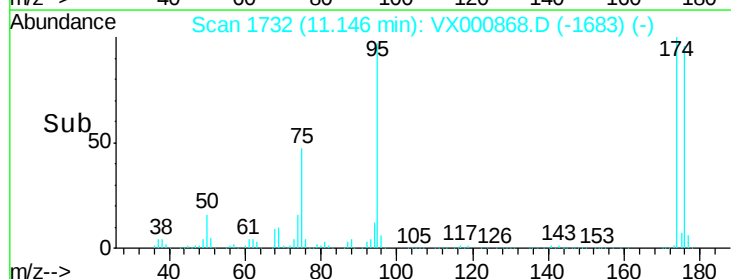
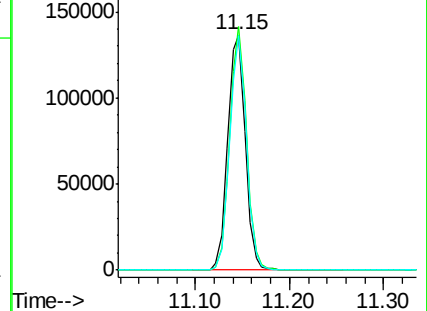
176 95.6 0.0 194.4

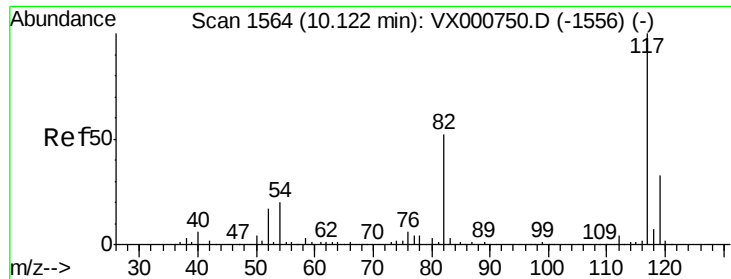


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

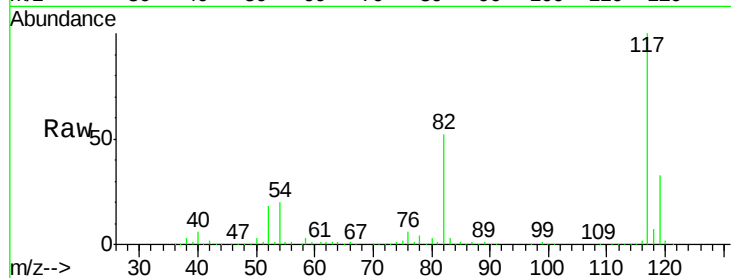




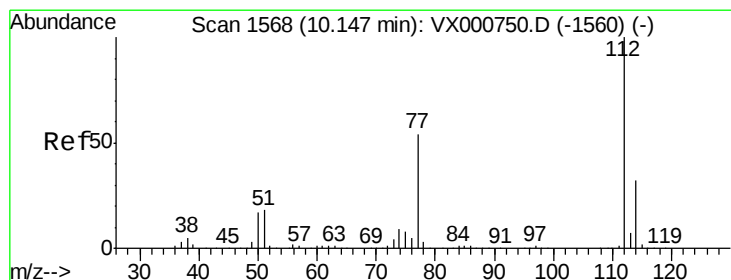
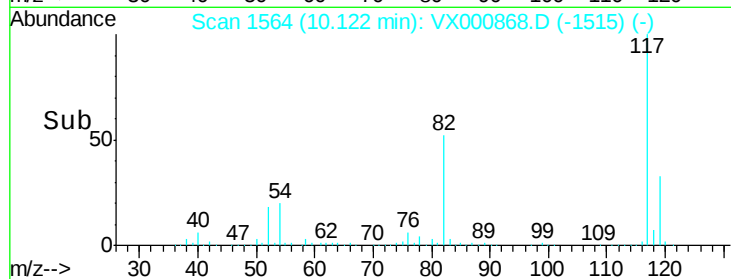
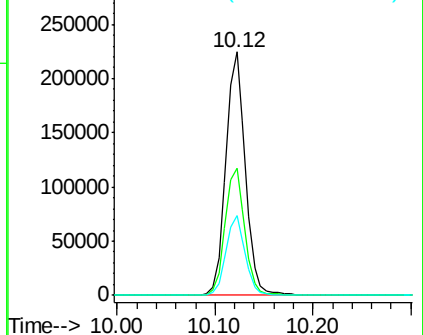
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1564  
Delta R.T. -0.00 min  
Lab File: VX000868.D  
Acq: 14 Apr 2018 12:06

Instrument :  
MSVOA\_X  
ClientSampleId :  
SS032MW008-180410

Tgt Ion:117 Resp: 309907  
Ion Ratio Lower Upper  
117 100  
82 52.1 41.9 62.9  
119 32.7 26.0 39.0

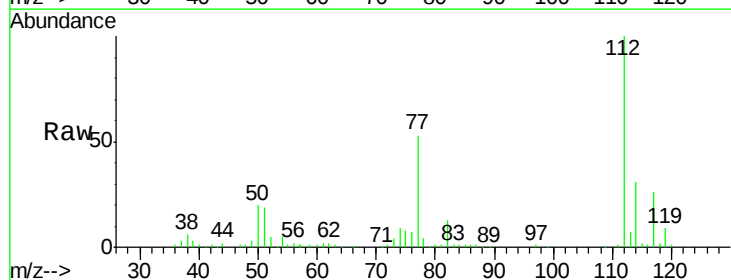


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

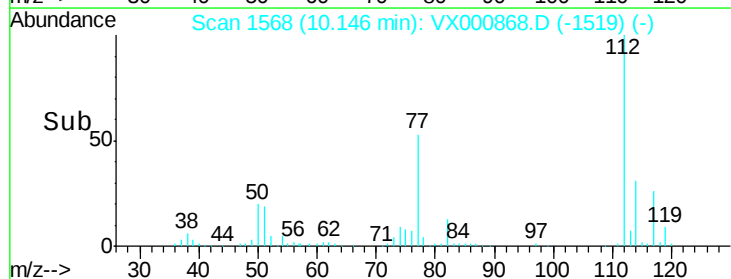
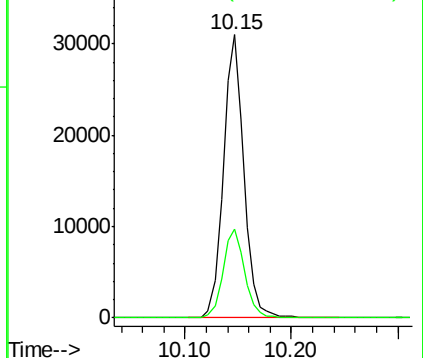


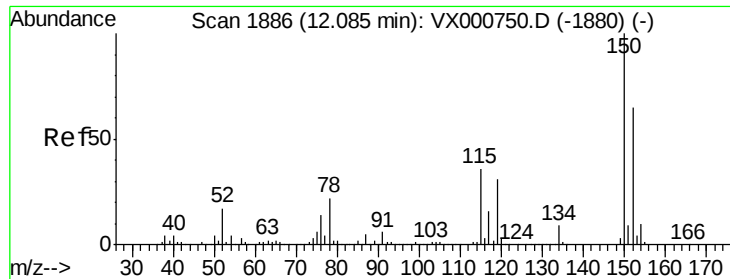
#65  
Chlorobenzene  
Concen: 5.34 ug/l  
RT: 10.15 min Scan# 1568  
Delta R.T. -0.00 min  
Lab File: VX000868.D  
Acq: 14 Apr 2018 12:06

Tgt Ion:112 Resp: 41593  
Ion Ratio Lower Upper  
112 100  
114 31.4 25.8 38.8



Abundance Ion 111.90 (111.60 to 112.60): V  
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000868.D

Acq: 14 Apr 2018 12:06

Instrument :

MSVOA\_X

ClientSampleId :

SS032MW008-180410

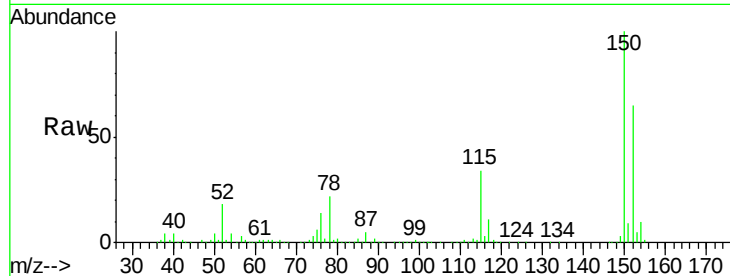
Tgt Ion:152 Resp: 191756

Ion Ratio Lower Upper

152 100

115 53.1 37.9 113.7

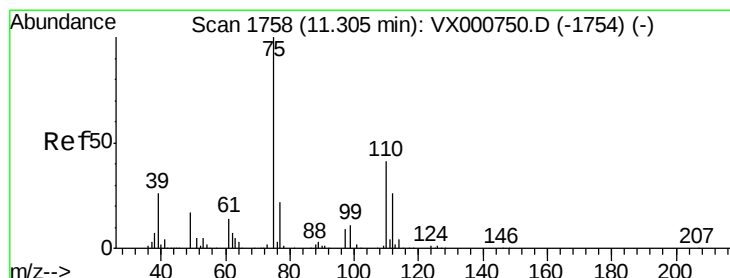
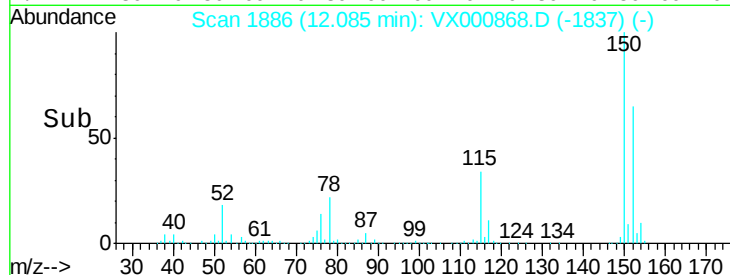
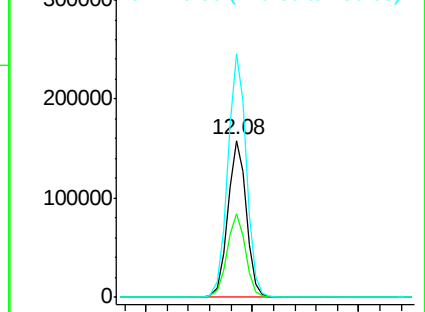
150 156.0 0.0 348.0



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: 26.08 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000868.D

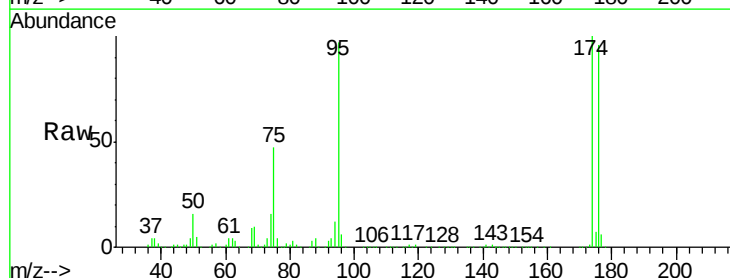
Acq: 14 Apr 2018 12:06

Tgt Ion: 75 Resp: 86253

Ion Ratio Lower Upper

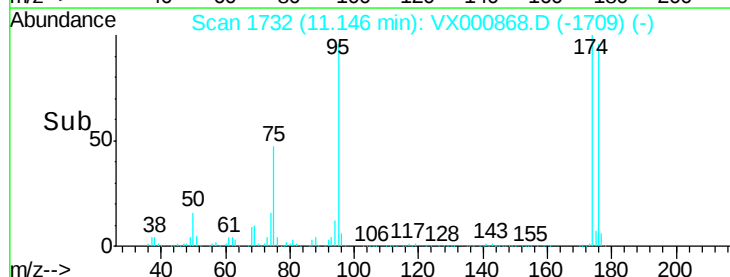
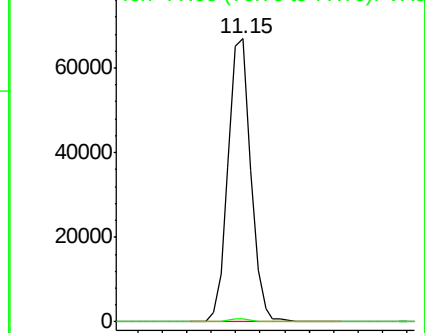
75 100

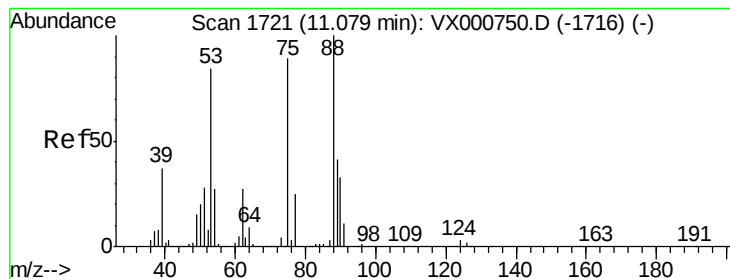
77 1.2 20.5 61.5#



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: 71.75 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.07 min

Lab File: VX000868.D

Acq: 14 Apr 2018 12:06

Instrument :

MSVOA\_X

ClientSampleId :

SS032MW008-180410

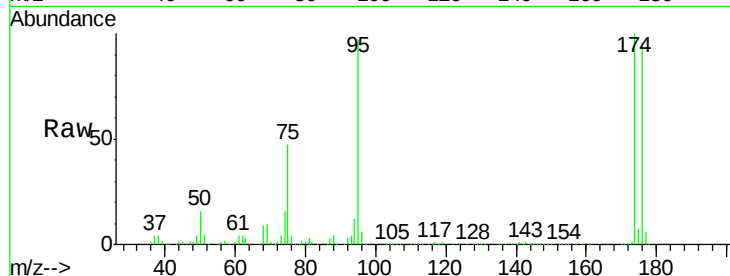
Tgt Ion: 75 Resp: 86253

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

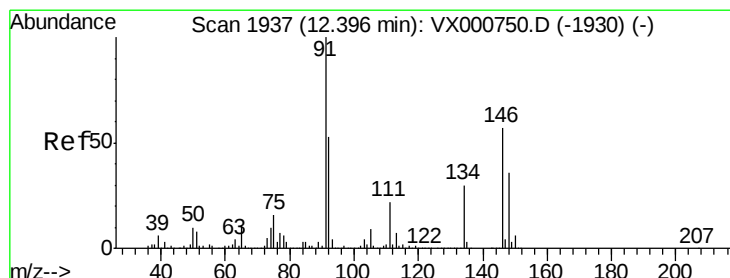
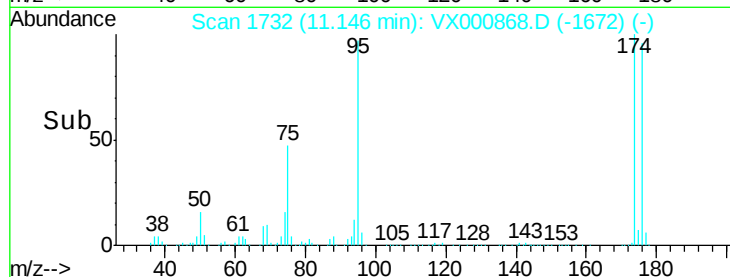
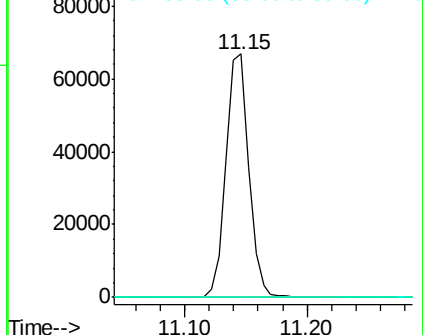
89 0.0 40.9 61.3#



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: 2.17 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VX000868.D

Acq: 14 Apr 2018 12:06

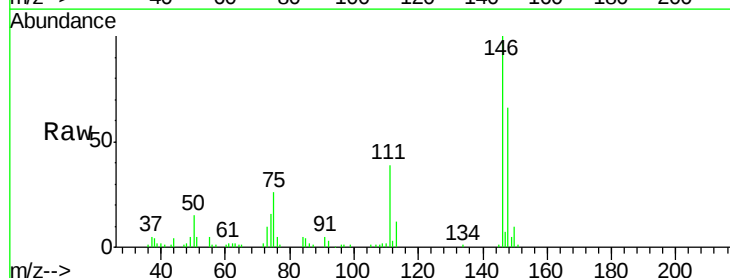
Tgt Ion: 146 Resp: 13848

Ion Ratio Lower Upper

146 100

111 38.5 18.9 56.7

148 65.4 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

