

Data File : VX001664.D

Acq On : 12 May 2018 14:03

Operator : JC/MD

Sample : J2741-13

Misc : 5.0mL/MSVOA\_X/WATER

ALS Vial : 7 Sample Multiplier: 1

Instrument :

MSVOA\_X

ClientSampleId :

ST006MW008-180430

Quant Time: May 14 05:58:23 2018

Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X050518W.M

Quant Title : SW846 8260

QLast Update : Sun May 06 07:59:25 2018

Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 265917   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 359251   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 311559   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 164092   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.07   | 65  | 214592   | 56.15 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 112.30% |      |
| 35) Dibromofluoromethane  | 5.51   | 113 | 171704   | 53.73 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.46% |      |
| 50) Toluene-d8            | 8.72   | 98  | 606083   | 51.96 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.92% |      |
| 62) 4-Bromofluorobenzene  | 11.14  | 95  | 195284   | 43.61 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 87.22%  |      |

## Target Compounds

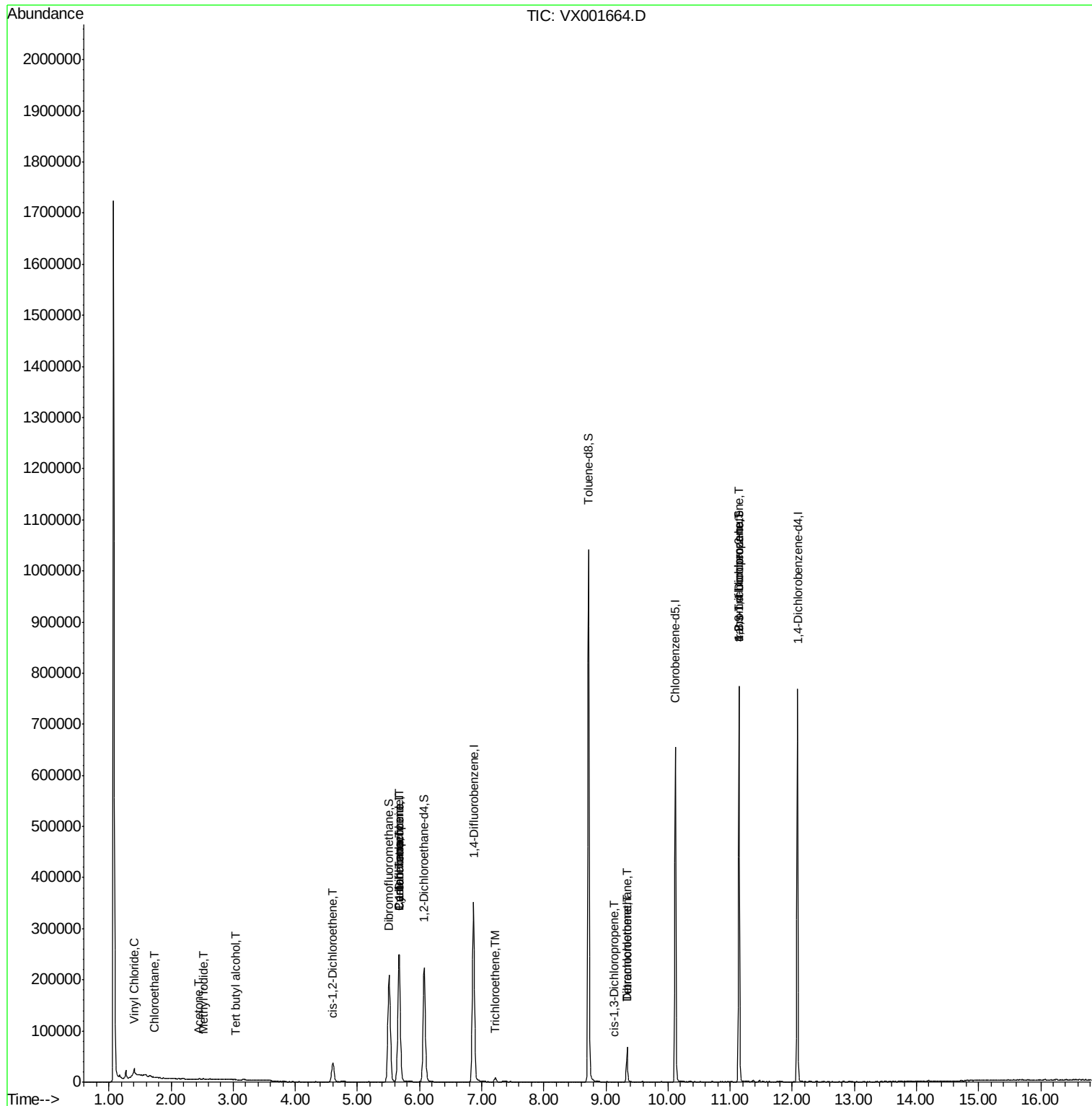
|                                |       |     |       |       |      | Qvalue |
|--------------------------------|-------|-----|-------|-------|------|--------|
| 4) Vinyl Chloride              | 1.40  | 62  | 7066  | 1.94  | ug/l | # 73   |
| 5) Bromomethane                | 1.65  | 94  | 1231  | Below | Cal  | 90     |
| 6) Chloroethane                | 1.73  | 64  | 792   | 0.33  | ug/l | # 50   |
| 10) Methyl Iodide              | 2.51  | 142 | 1402  | 0.30  | ug/l | # 44   |
| 11) Tert butyl alcohol         | 3.03  | 59  | 658   | 0.82  | ug/l | # 72   |
| 13) Acrolein                   | 2.29  | 56  | 87    | Below | Cal  | # 16   |
| 16) Acetone                    | 2.45  | 43  | 860   | 0.50  | ug/l | # 87   |
| 27) cis-1,2-Dichloroethene     | 4.60  | 96  | 23557 | 6.74  | ug/l | 90     |
| 31) Cyclohexane                | 5.67  | 56  | 4628  | 0.94  | ug/l | # 16   |
| 36) 1,1-Dichloropropene        | 5.67  | 75  | 16736 | 3.66  | ug/l | # 48   |
| 38) Carbon Tetrachloride       | 5.67  | 117 | 22664 | 4.65  | ug/l | # 16   |
| 44) Trichloroethene            | 7.22  | 130 | 3247  | 0.80  | ug/l | 84     |
| 54) cis-1,3-Dichloropropene    | 9.13  | 75  | 23    | 2.27  | ug/l | # 27   |
| 60) Dibromochloromethane       | 9.34  | 129 | 12307 | 3.42  | ug/l | # 11   |
| 64) Tetrachloroethene          | 9.34  | 164 | 14626 | 3.37  | ug/l | 95     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75  | 95374 | 28.66 | ug/l | # 38   |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75  | 95374 | 87.82 | ug/l | # 7    |

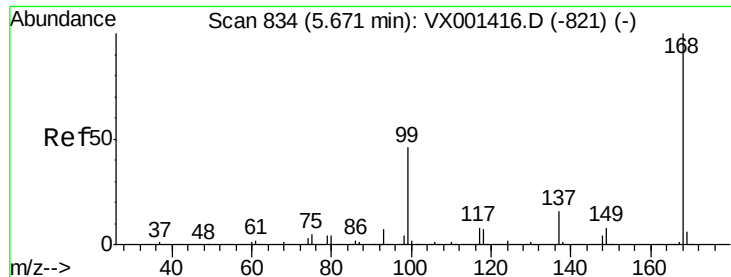
(#)=qualifier out of range (m)=manual integration (+)=signals summed

Data File : VX001664.D  
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ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
ST006MW008-180430

Quant Time: May 14 05:58:23 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X050518W.M  
Quant Title : SW846 8260  
QLast Update : Sun May 06 07:59:25 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: VX001664.D

Acq: 12 May 2018 14:03

Instrument :

MSVOA\_X

ClientSampleId :

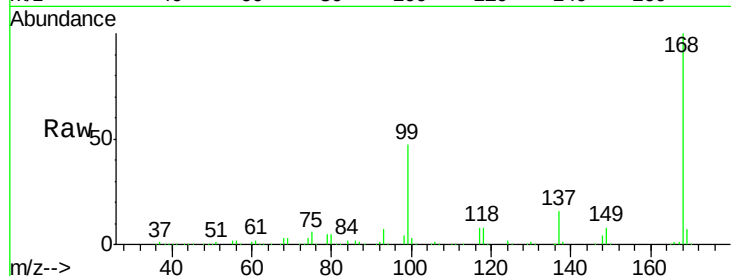
ST006MW008-180430

Tgt Ion:168 Resp: 265917

Ion Ratio Lower Upper

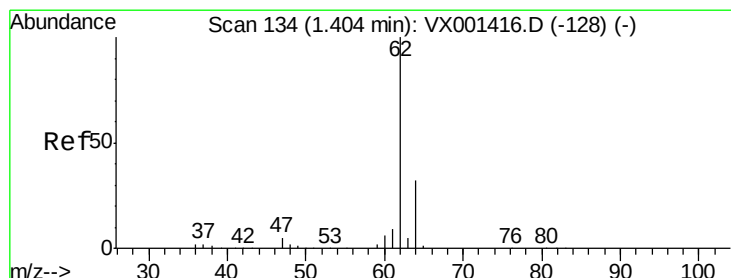
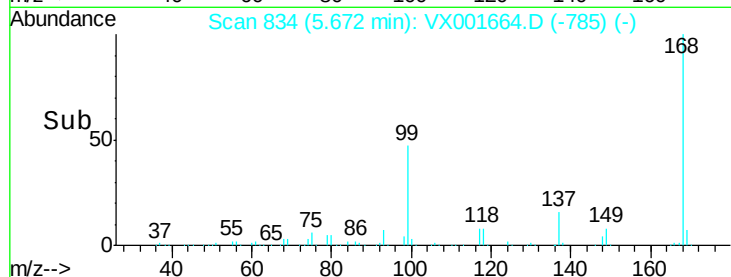
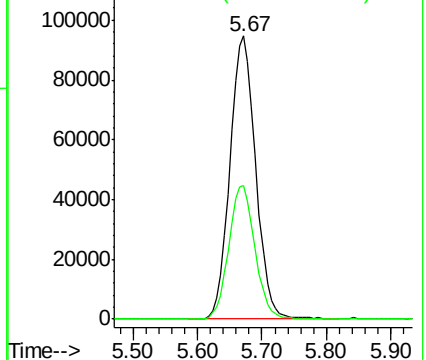
168 100

99 47.0 36.6 54.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 1.94 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX001664.D

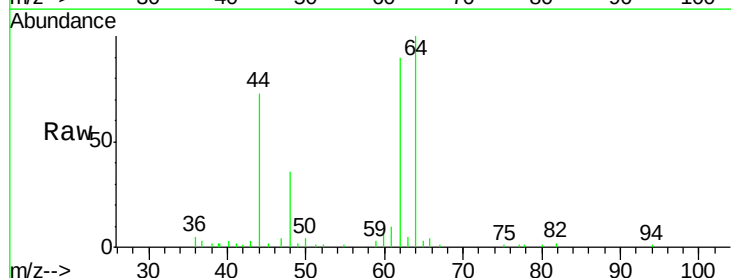
Acq: 12 May 2018 14:03

Tgt Ion: 62 Resp: 7066

Ion Ratio Lower Upper

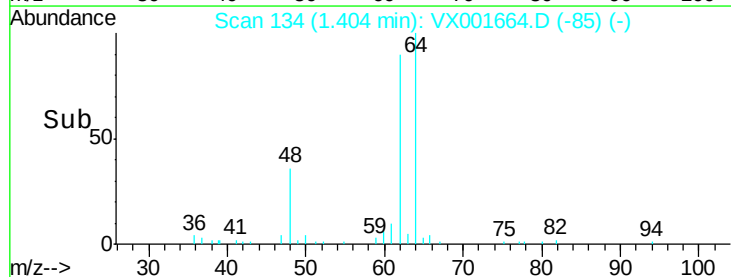
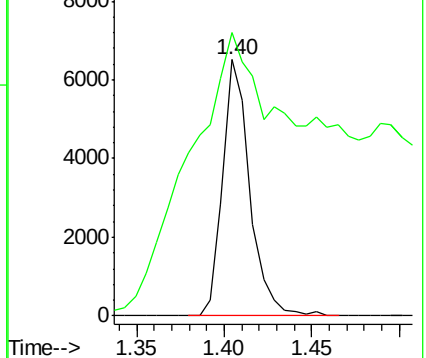
62 100

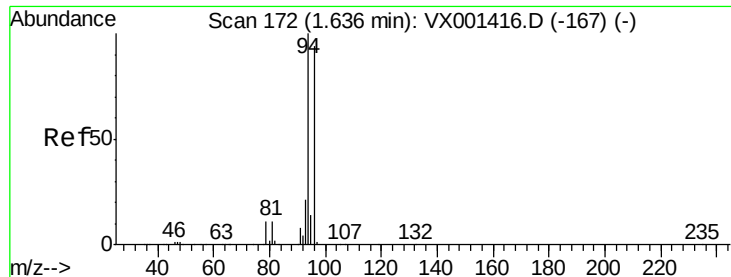
64 47.0 25.8 38.6#



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. 0.02 min

Lab File: VX001664.D

Acq: 12 May 2018 14:03

Instrument :

MSVOA\_X

ClientSampleId :

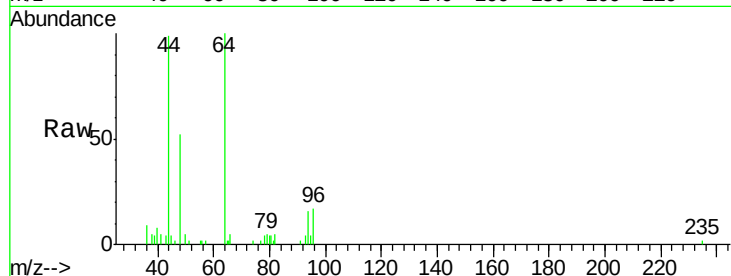
ST006MW008-180430

Tgt Ion: 94 Resp: 1231

Ion Ratio Lower Upper

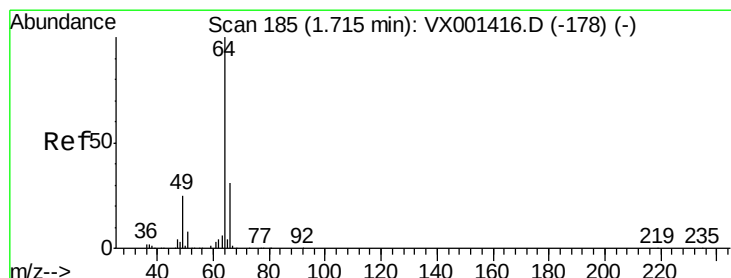
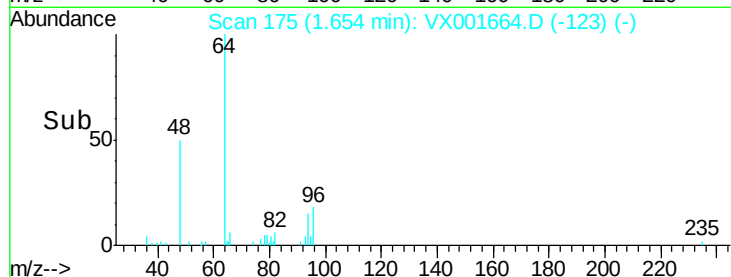
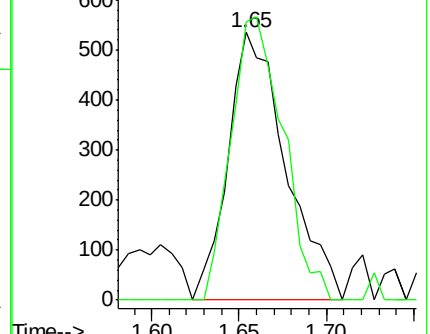
94 100

96 103.9 75.0 112.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.33 ug/l

RT: 1.73 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX001664.D

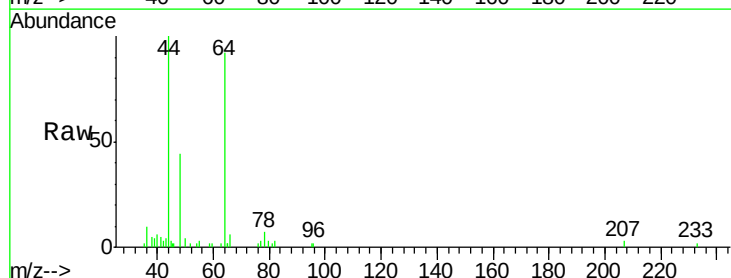
Acq: 12 May 2018 14:03

Tgt Ion: 64 Resp: 792

Ion Ratio Lower Upper

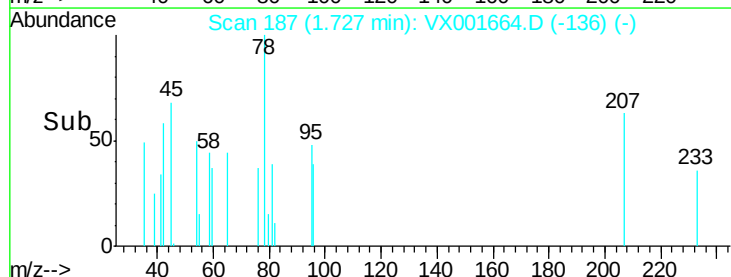
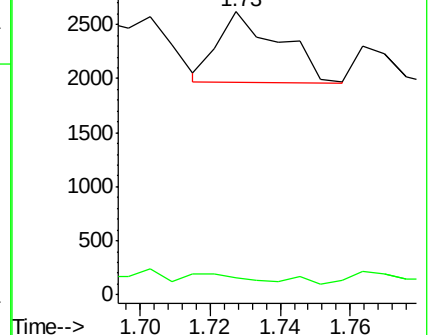
64 100

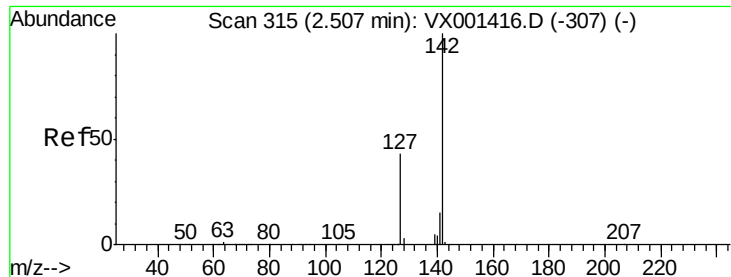
66 3.7 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

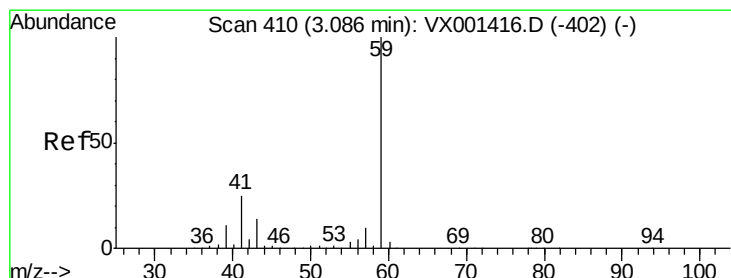
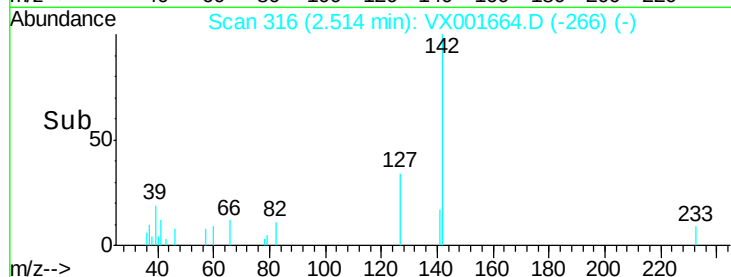
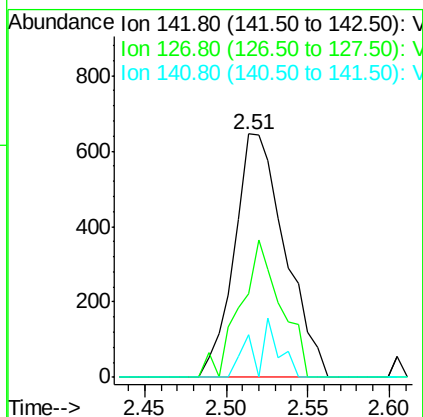
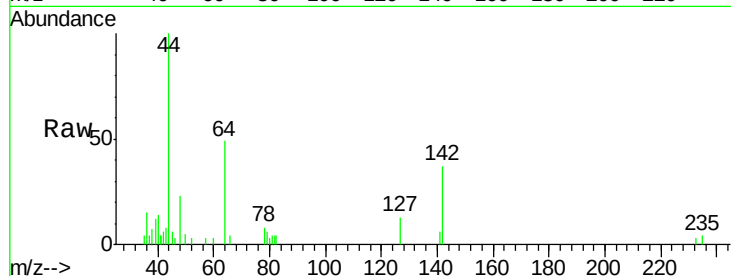




#10  
Methyl Iodide  
Concen: 0.30 ug/l  
RT: 2.51 min Scan# 316  
Delta R.T. 0.01 min  
Lab File: VX001664.D  
Acq: 12 May 2018 14:03

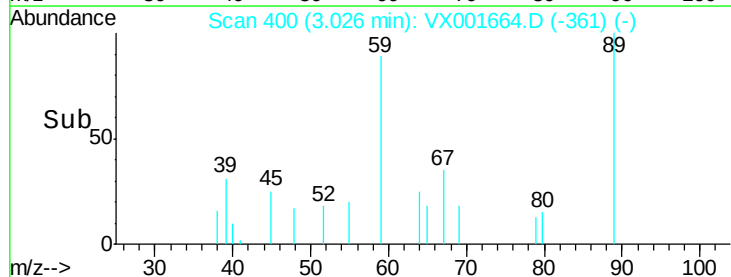
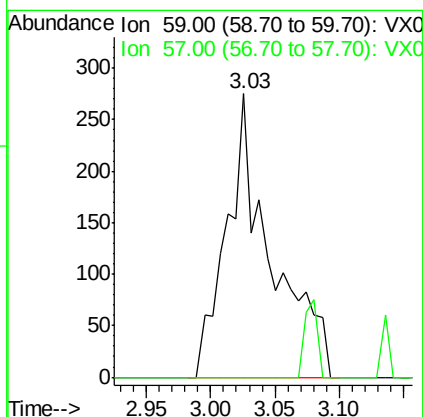
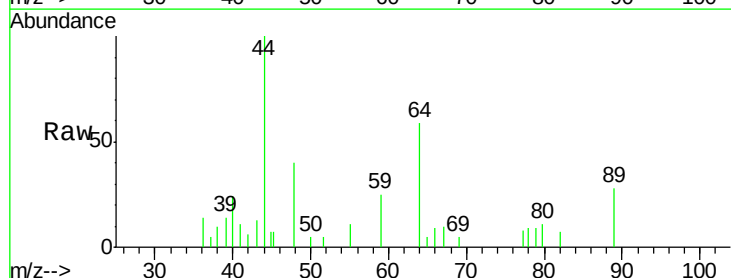
Instrument :  
MSVOA\_X  
ClientSampleId :  
ST006MW008-180430

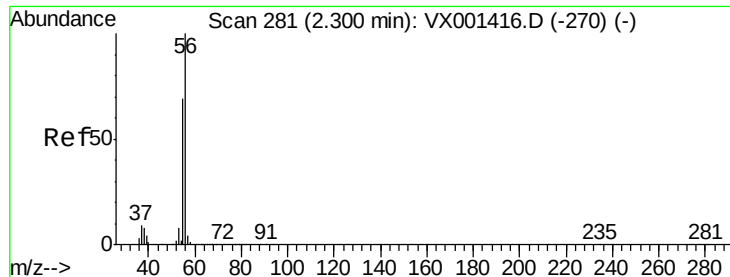
Tgt Ion: 142 Resp: 1402  
Ion Ratio Lower Upper  
142 100  
127 0.0 33.6 50.4#  
141 4.4 11.4 17.2#



#11  
Tert butyl alcohol  
Concen: 0.82 ug/l  
RT: 3.03 min Scan# 400  
Delta R.T. -0.06 min  
Lab File: VX001664.D  
Acq: 12 May 2018 14:03

Tgt Ion: 59 Resp: 658  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX001664.D

Acq: 12 May 2018 14:03

Instrument :

MSVOA\_X

ClientSampleId :

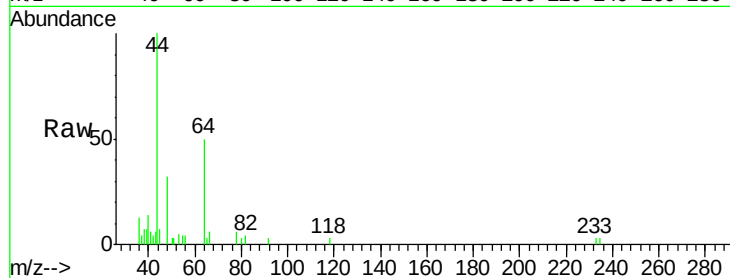
ST006MW008-180430

Tgt Ion: 56 Resp: 87

Ion Ratio Lower Upper

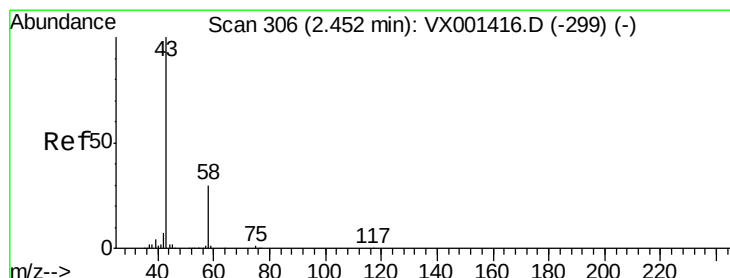
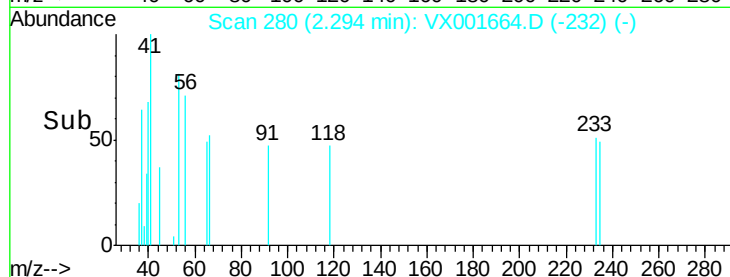
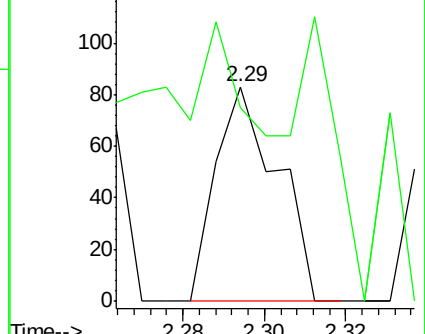
56 100

55 0.0 54.5 81.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.50 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX001664.D

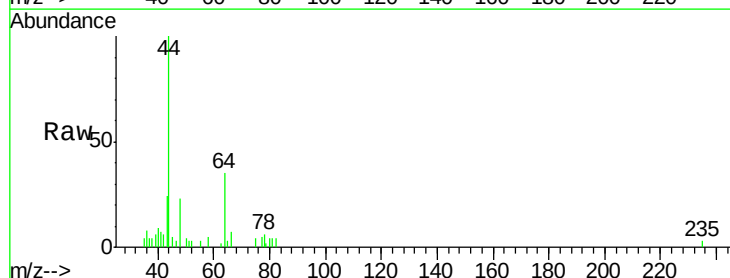
Acq: 12 May 2018 14:03

Tgt Ion: 43 Resp: 860

Ion Ratio Lower Upper

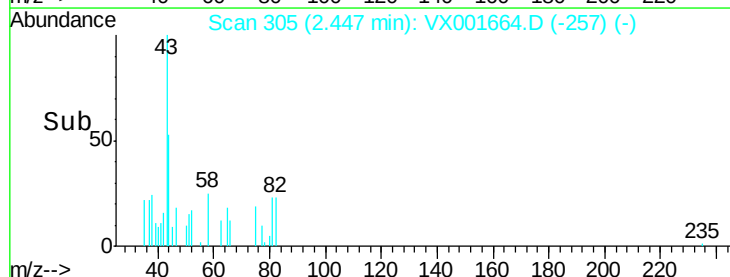
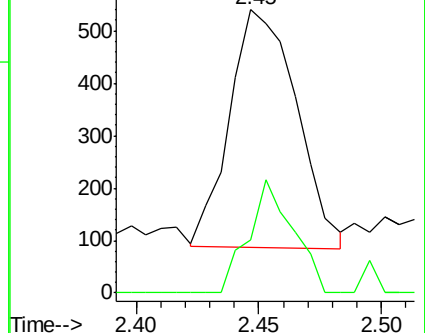
43 100

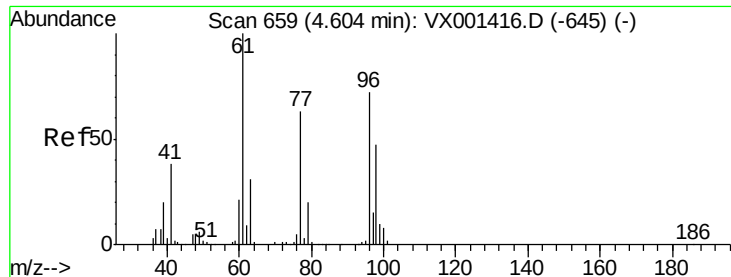
58 22.9 23.8 35.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#27

cis-1,2-Dichloroethene

Concen: 6.74 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.00 min

Lab File: VX001664.D

Acq: 12 May 2018 14:03

Instrument :

MSVOA\_X

ClientSampleId :

ST006MW008-180430

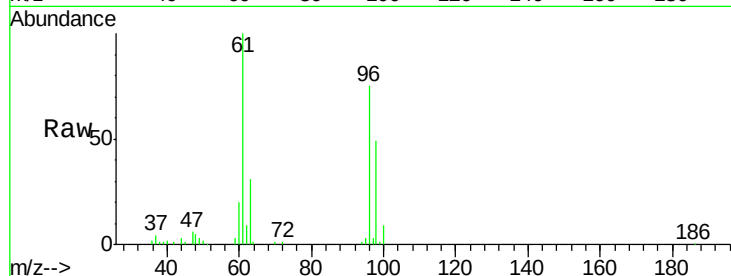
Tgt Ion: 96 Resp: 23557

Ion Ratio Lower Upper

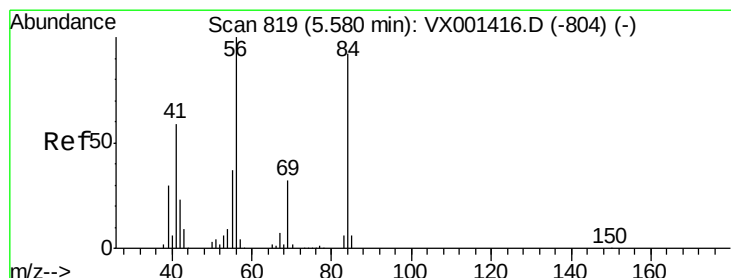
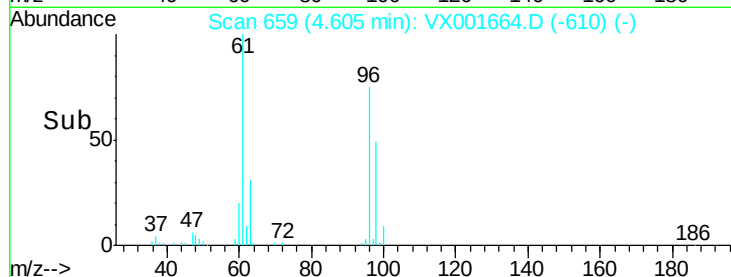
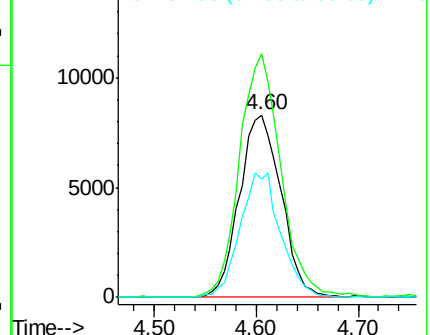
96 100

61 133.1 0.0 301.6

98 66.6 0.0 131.6



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: 0.94 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX001664.D

Acq: 12 May 2018 14:03

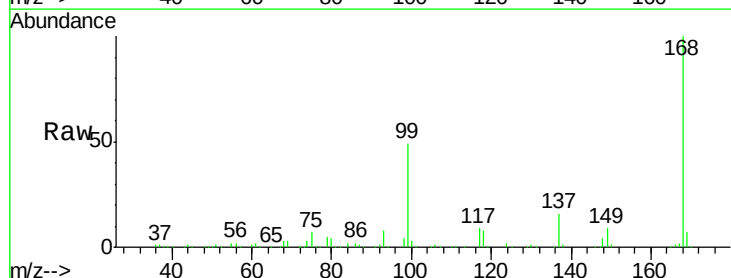
Tgt Ion: 56 Resp: 4628

Ion Ratio Lower Upper

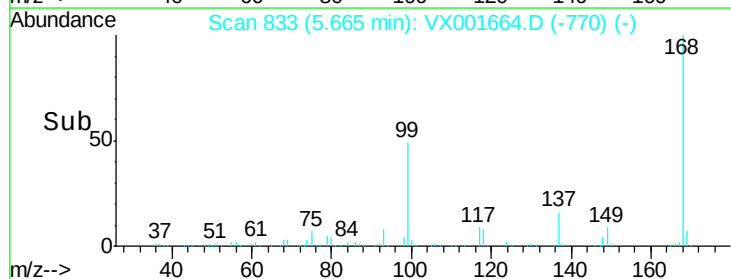
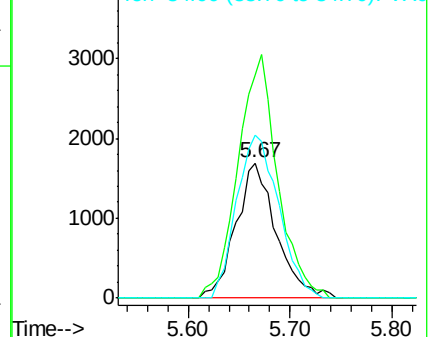
56 100

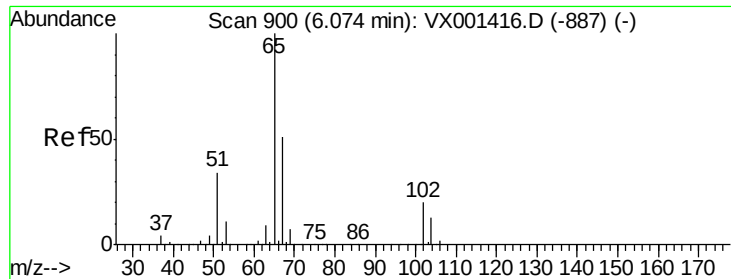
69 165.3 25.4 38.0#

84 121.0 73.8 110.8#



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

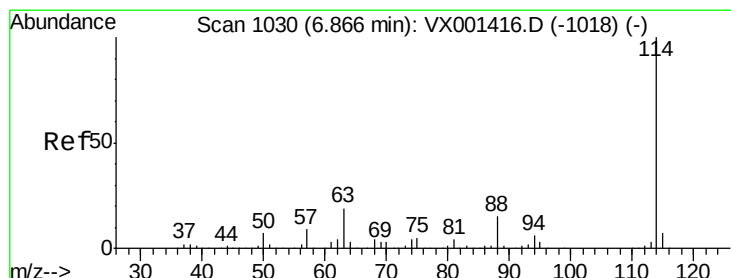
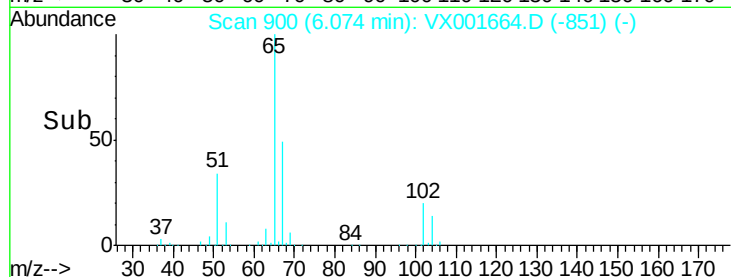
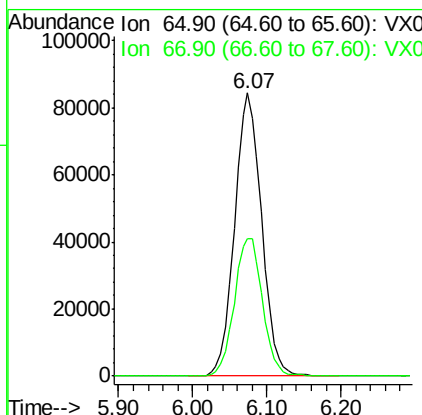
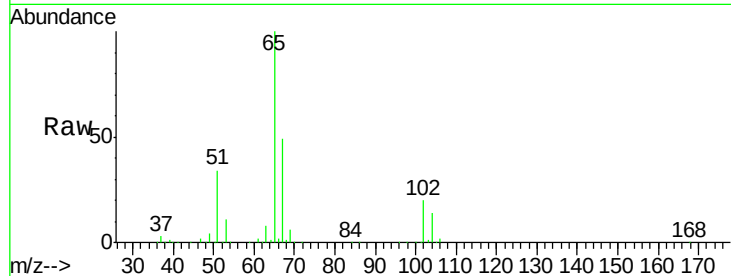




#33  
 1,2-Dichloroethane-d4  
 Concen: 56.15 ug/l  
 RT: 6.07 min Scan# 900  
 Delta R.T. 0.00 min  
 Lab File: VX001664.D  
 Acq: 12 May 2018 14:03

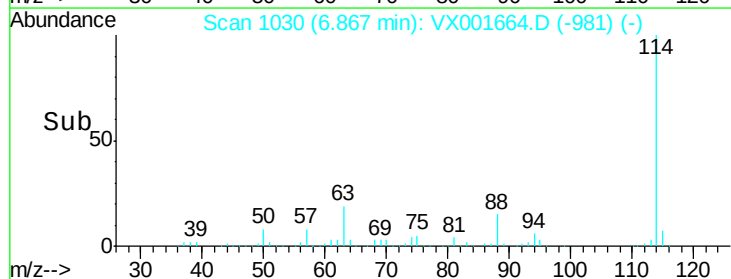
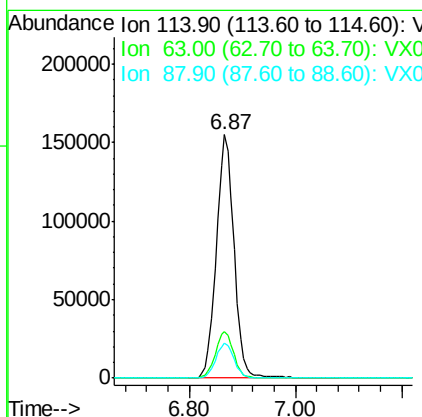
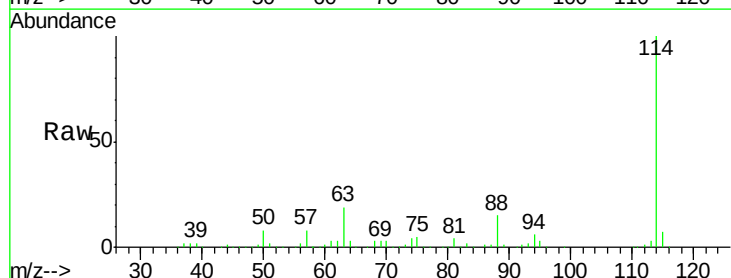
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ST006MW008-180430

Tgt Ion: 65 Resp: 214592  
 Ion Ratio Lower Upper  
 65 100  
 67 50.6 0.0 101.8

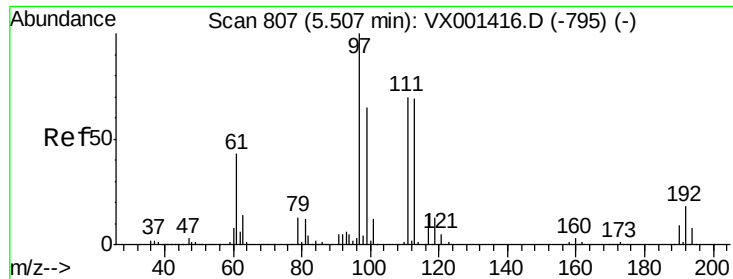


#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. 0.00 min  
 Lab File: VX001664.D  
 Acq: 12 May 2018 14:03

Tgt Ion: 114 Resp: 359251  
 Ion Ratio Lower Upper  
 114 100  
 63 19.3 0.0 38.6  
 88 14.6 0.0 30.8



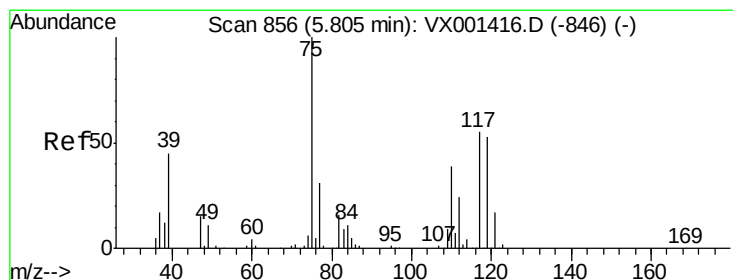
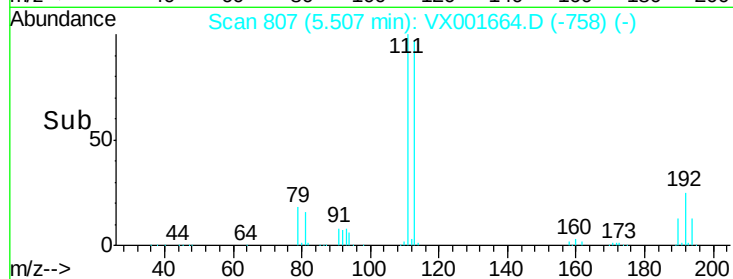
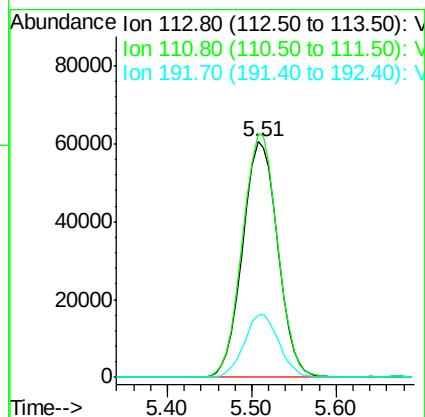
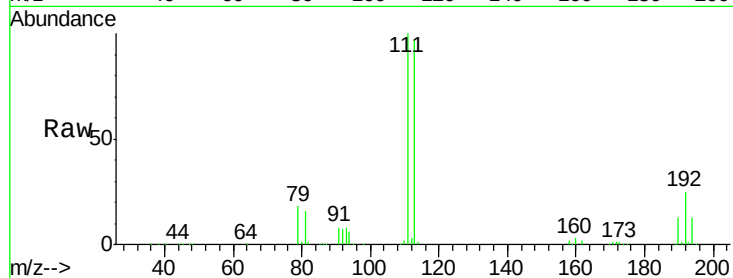




#35  
 Dibromofluoromethane  
 Concen: 53.73 ug/l  
 RT: 5.51 min Scan# 807  
 Delta R.T. 0.00 min  
 Lab File: VX001664.D  
 Acq: 12 May 2018 14:03

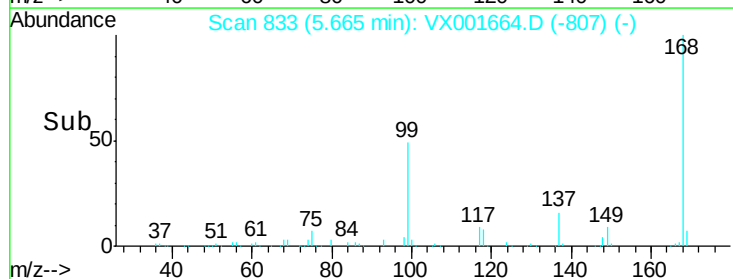
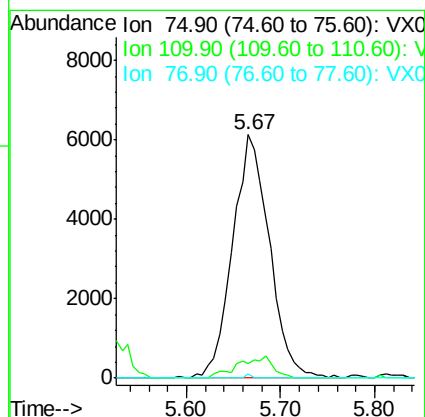
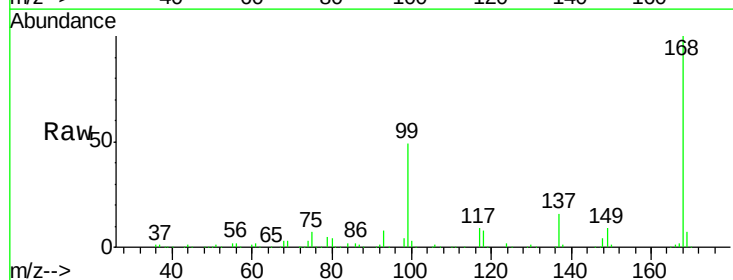
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ST006MW008-180430

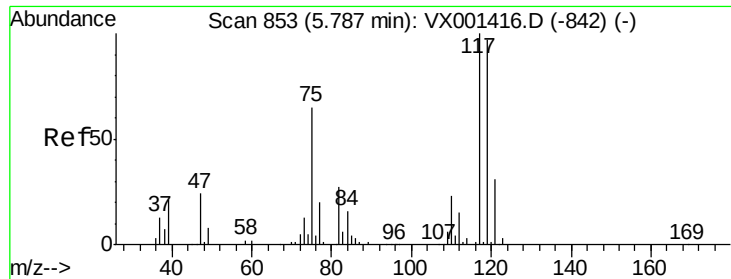
Tgt Ion:113 Resp: 171704  
 Ion Ratio Lower Upper  
 113 100  
 111 103.3 82.2 123.2  
 192 26.3 21.4 32.0



#36  
 1,1-Dichloropropene  
 Concen: 3.66 ug/l  
 RT: 5.67 min Scan# 833  
 Delta R.T. -0.14 min  
 Lab File: VX001664.D  
 Acq: 12 May 2018 14:03

Tgt Ion: 75 Resp: 16736  
 Ion Ratio Lower Upper  
 75 100  
 110 8.5 18.9 56.7#  
 77 0.2 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 4.65 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX001664.D

Acq: 12 May 2018 14:03

Instrument :

MSVOA\_X

ClientSampleId :

ST006MW008-180430

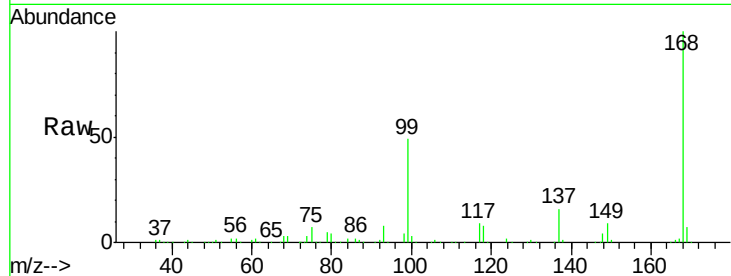
Tgt Ion:117 Resp: 22664

Ion Ratio Lower Upper

117 100

119 5.1 77.0 115.6#

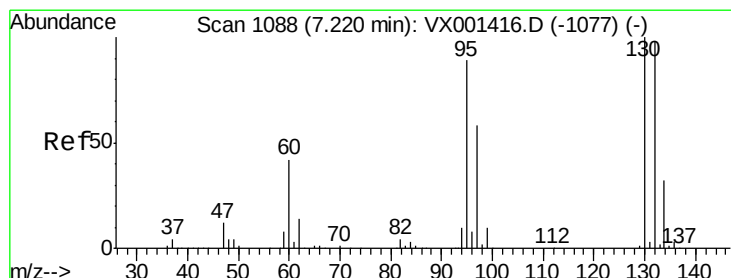
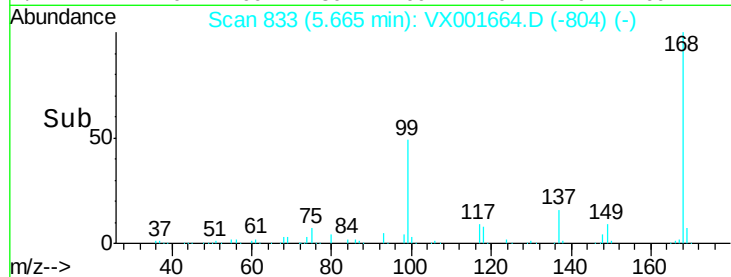
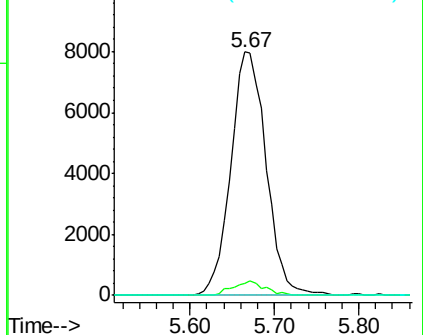
121 0.0 25.1 37.7#



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



#44

Trichloroethene

Concen: 0.80 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.00 min

Lab File: VX001664.D

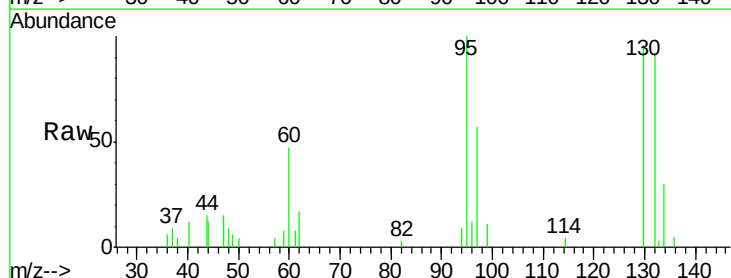
Acq: 12 May 2018 14:03

Tgt Ion:130 Resp: 3247

Ion Ratio Lower Upper

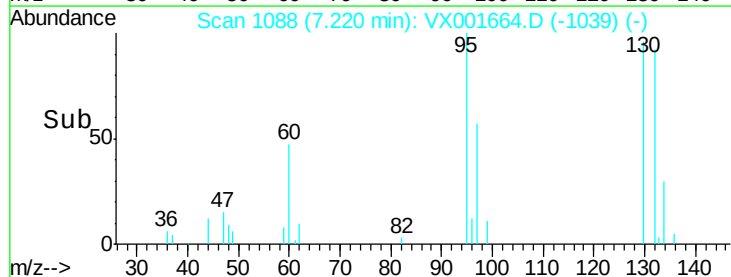
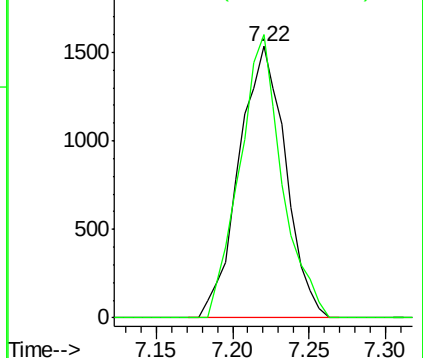
130 100

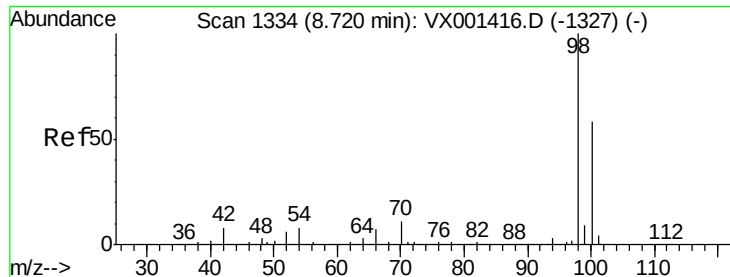
95 104.2 0.0 178.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 51.96 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001664.D

Acq: 12 May 2018 14:03

Instrument :

MSVOA\_X

ClientSampleId :

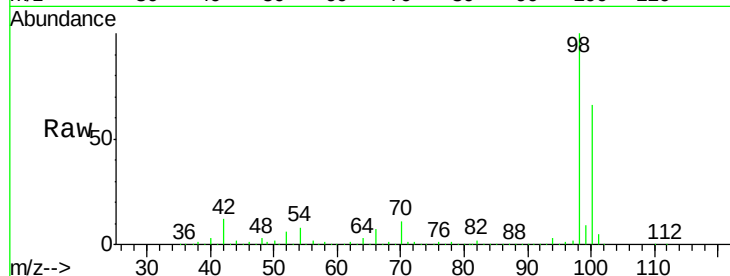
ST006MW008-180430

Tgt Ion: 98 Resp: 606083

Ion Ratio Lower Upper

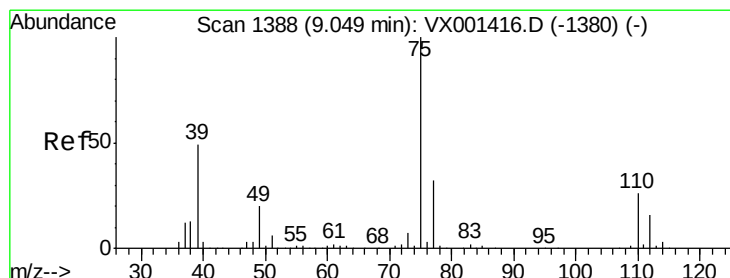
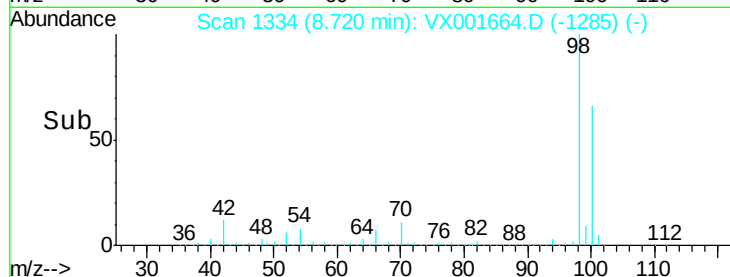
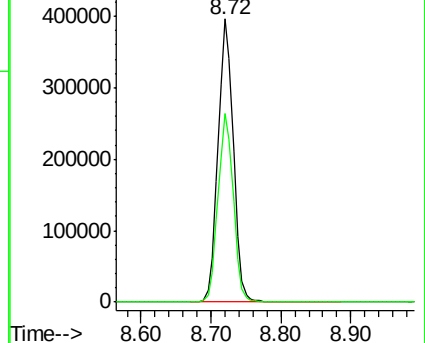
98 100

100 66.4 54.0 81.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#54

cis-1,3-Dichloropropene

Concen: 2.27 ug/l

RT: 9.13 min Scan# 1401

Delta R.T. 0.08 min

Lab File: VX001664.D

Acq: 12 May 2018 14:03

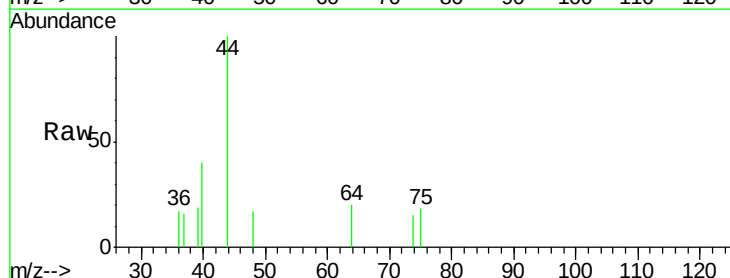
Tgt Ion: 75 Resp: 23

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

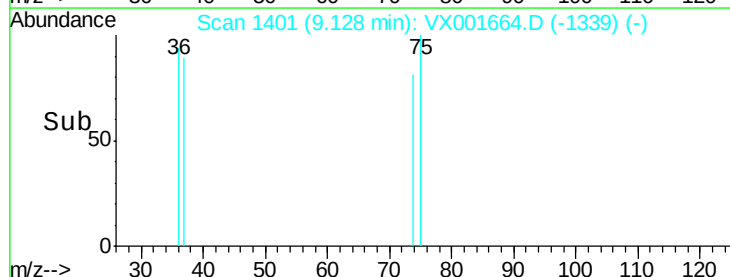
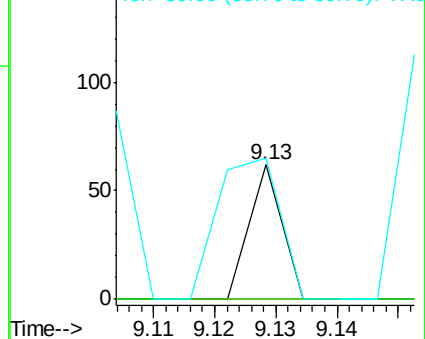
39 104.8 38.9 58.3#

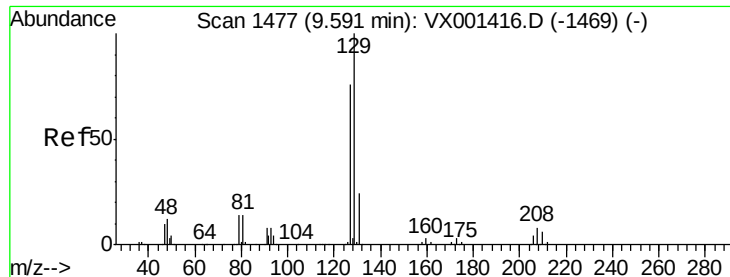


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





#60

Dibromochloromethane

Concen: 3.42 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.25 min

Lab File: VX001664.D

Acq: 12 May 2018 14:03

Instrument :

MSVOA\_X

ClientSampleId :

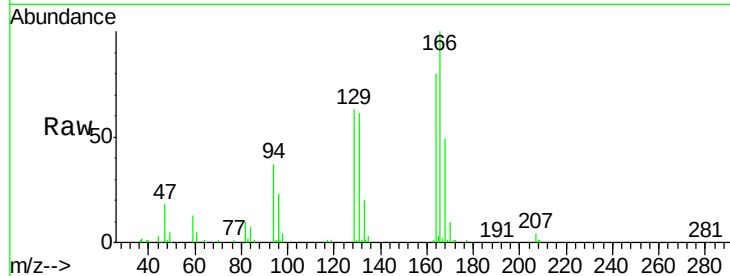
ST006MW008-180430

Tgt Ion:129 Resp: 12307

Ion Ratio Lower Upper

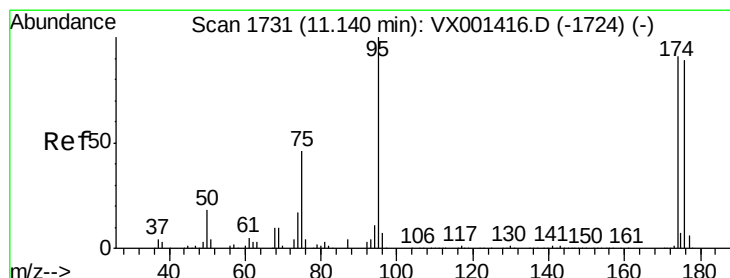
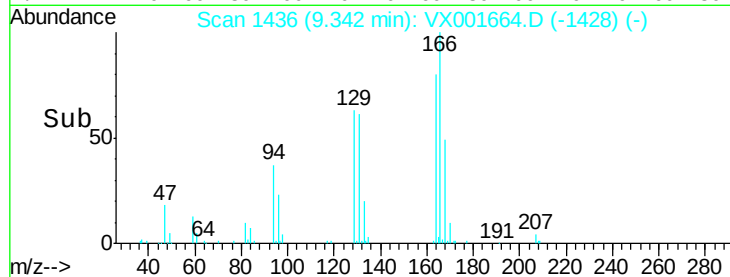
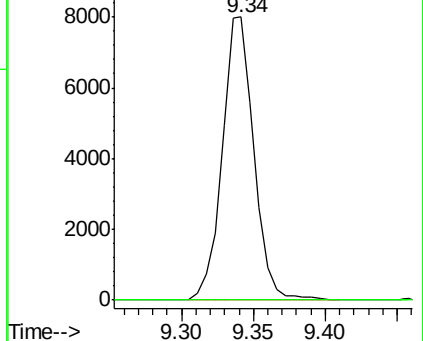
129 100

127 0.0 38.1 114.5#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 43.61 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001664.D

Acq: 12 May 2018 14:03

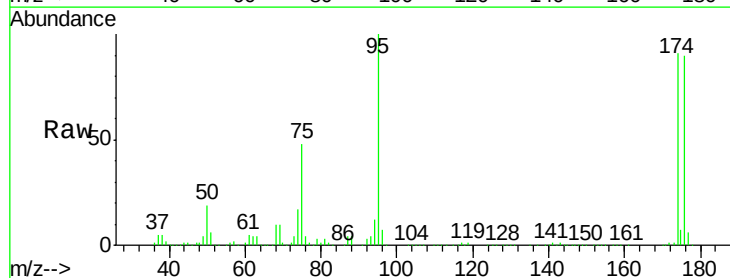
Tgt Ion: 95 Resp: 195284

Ion Ratio Lower Upper

95 100

174 100.7 0.0 202.0

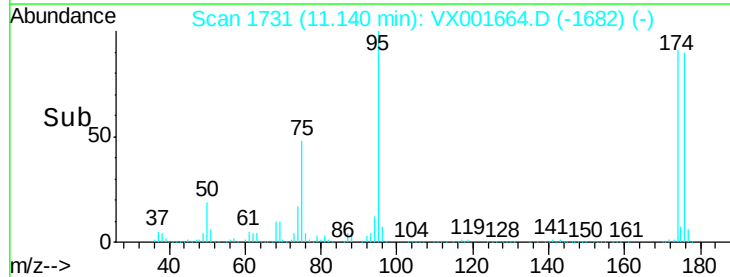
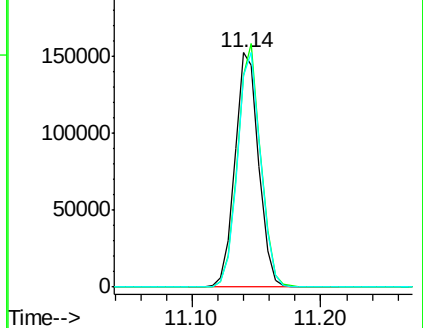
176 98.2 0.0 197.4

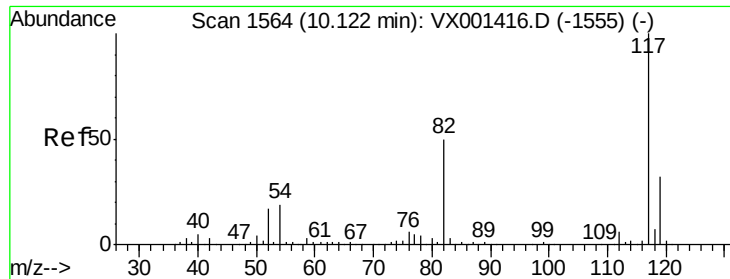


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

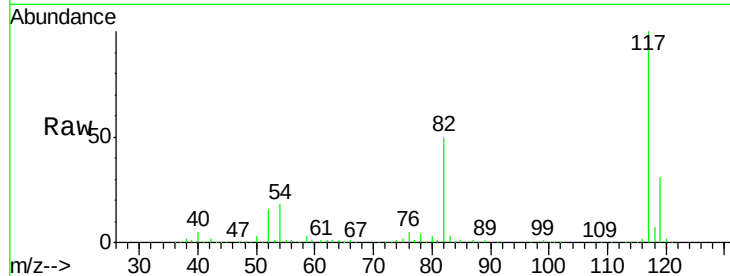




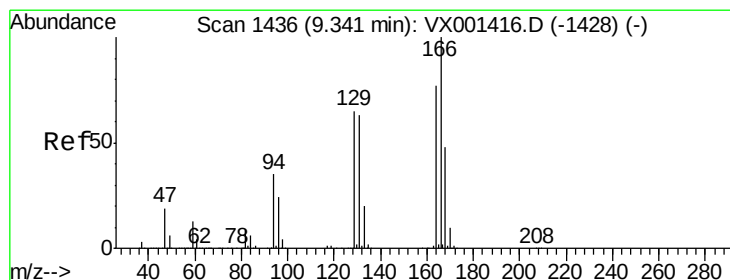
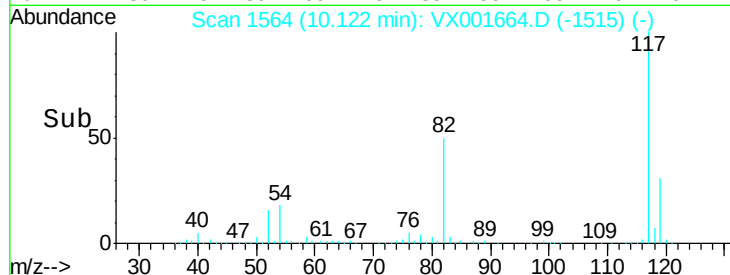
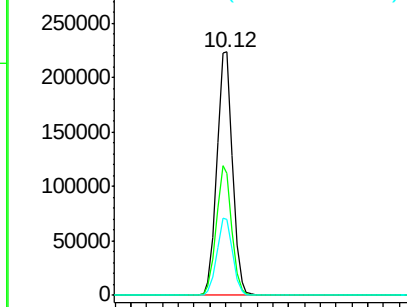
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1564  
Delta R.T. 0.00 min  
Lab File: VX001664.D  
Acq: 12 May 2018 14:03

Instrument :  
MSVOA\_X  
ClientSampleId :  
ST006MW008-180430

Tgt Ion:117 Resp: 311559  
Ion Ratio Lower Upper  
117 100  
82 50.0 40.0 60.0  
119 31.3 25.8 38.8

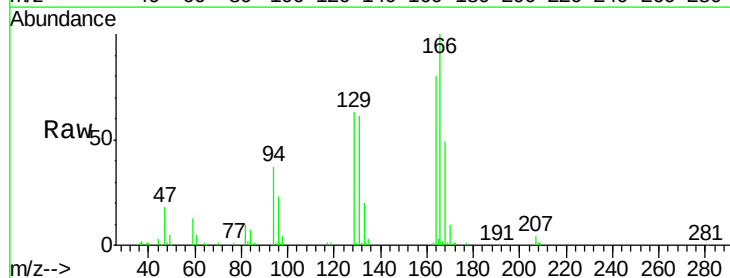


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

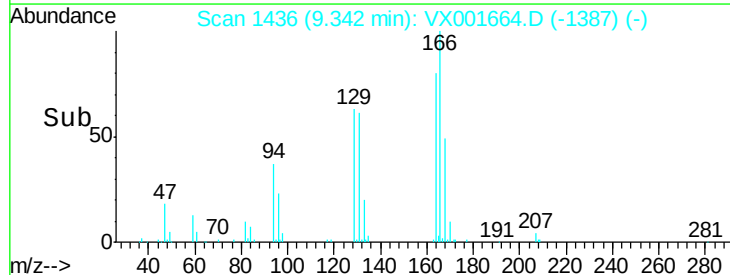
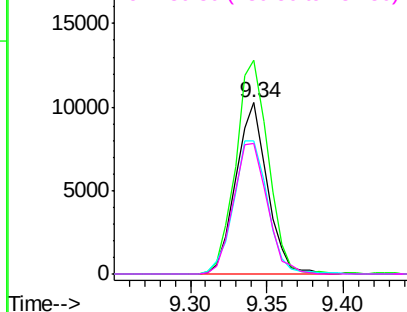


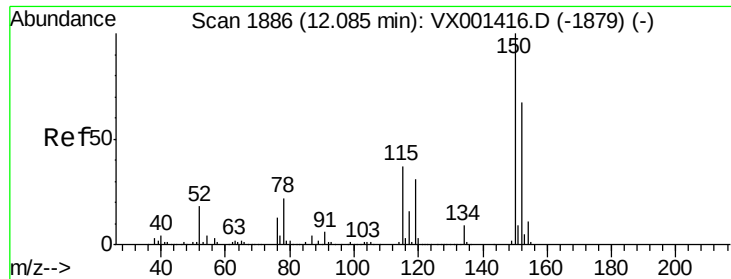
#64  
Tetrachloroethene  
Concen: 3.37 ug/l  
RT: 9.34 min Scan# 1436  
Delta R.T. 0.00 min  
Lab File: VX001664.D  
Acq: 12 May 2018 14:03

Tgt Ion:164 Resp: 14626  
Ion Ratio Lower Upper  
164 100  
166 124.8 103.5 155.3  
129 78.0 66.7 100.1  
131 76.3 64.9 97.3



Abundance Ion 163.80 (163.50 to 164.50): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.80 (128.50 to 129.50): V  
Ion 130.80 (130.50 to 131.50): 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: VX001664.D

Acq: 12 May 2018 14:03

Instrument :

MSVOA\_X

ClientSampleId :

ST006MW008-180430

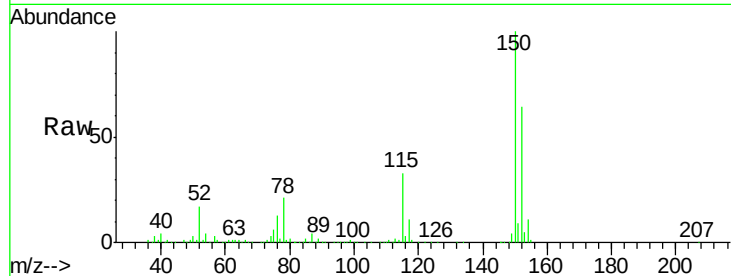
Tgt Ion:152 Resp: 164092

Ion Ratio Lower Upper

152 100

115 52.5 37.7 113.1

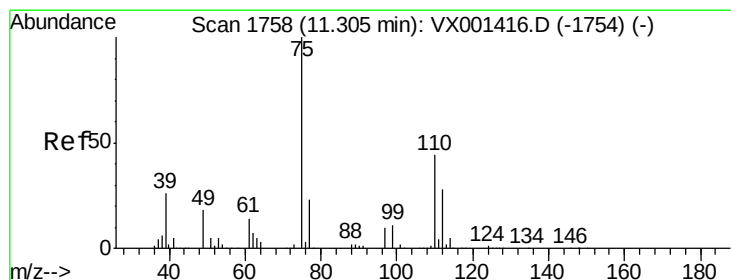
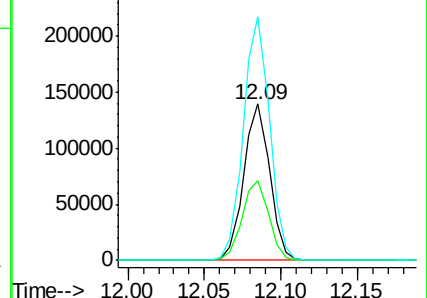
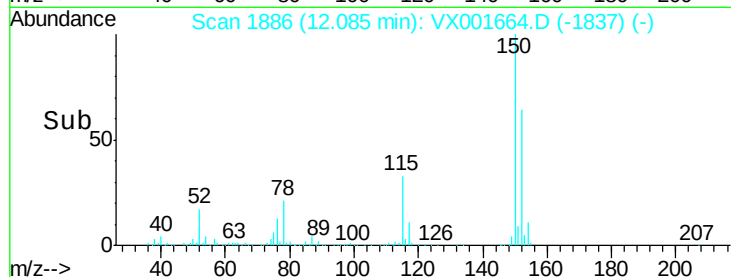
150 157.5 0.0 349.4



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



#76

1,2,3-Trichloropropane

Concen: 28.66 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001664.D

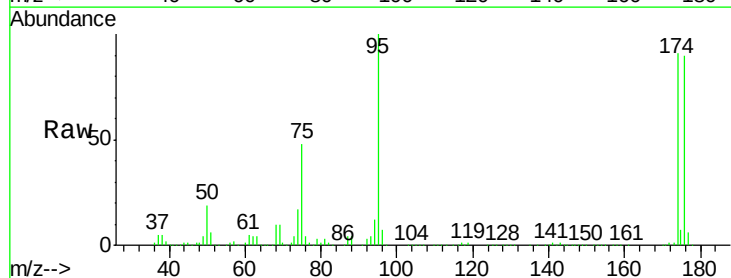
Acq: 12 May 2018 14:03

Tgt Ion: 75 Resp: 95374

Ion Ratio Lower Upper

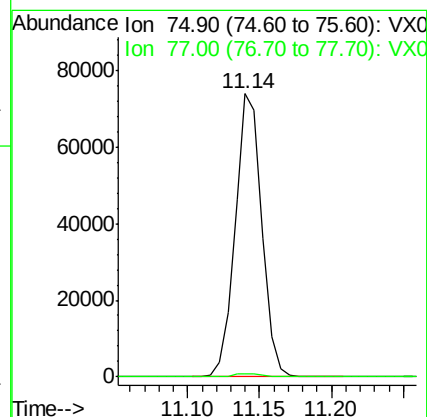
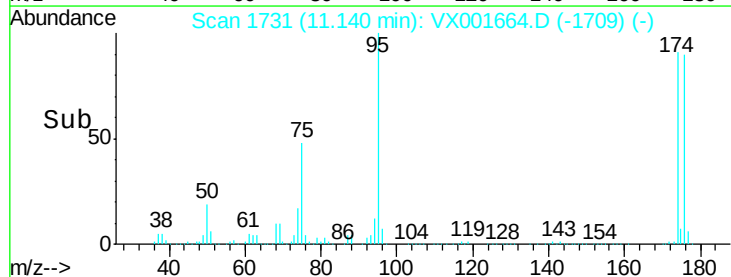
75 100

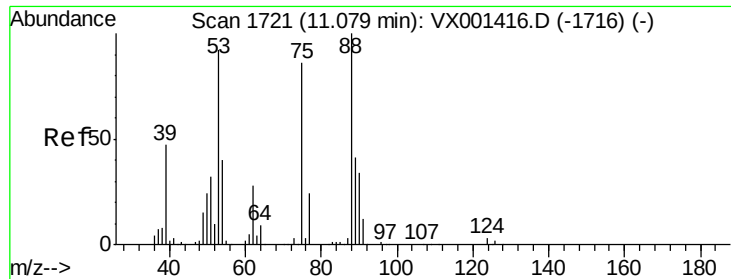
77 1.3 19.6 58.7#



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: 87.82 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001664.D

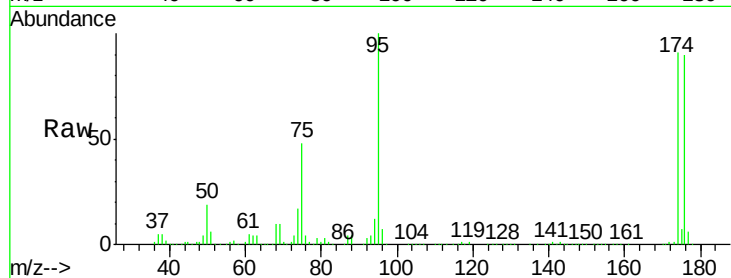
Acq: 12 May 2018 14:03

Instrument :

MSVOA\_X

ClientSampleId :

ST006MW008-180430



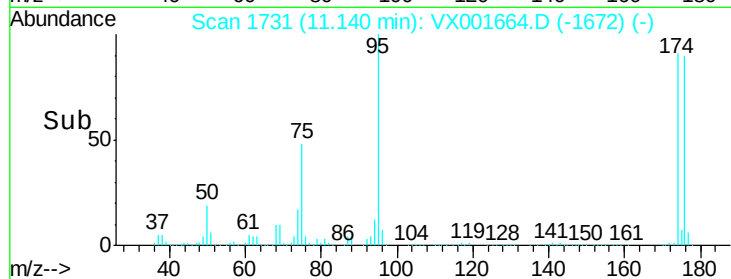
Tgt Ion: 75 Resp: 95374

Ion Ratio Lower Upper

75 100

53 0.1 84.5 126.7#

89 0.0 39.5 59.3#



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

