

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011519\  
 Data File : VX007052.D  
 Acq On : 15 Jan 2019 12:27  
 Operator : JC/SP  
 Sample : K1149-05  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TB-A-190114-01

Quant Time: Jan 16 00:02:36 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010819W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 08 14:06:59 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 596280   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 926092   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 861238   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 417905   | 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   | 317319   | 50.92 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.84% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 282612   | 47.65 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.30%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 1089745  | 50.20 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.40% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 393216   | 51.96 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.92% |          |

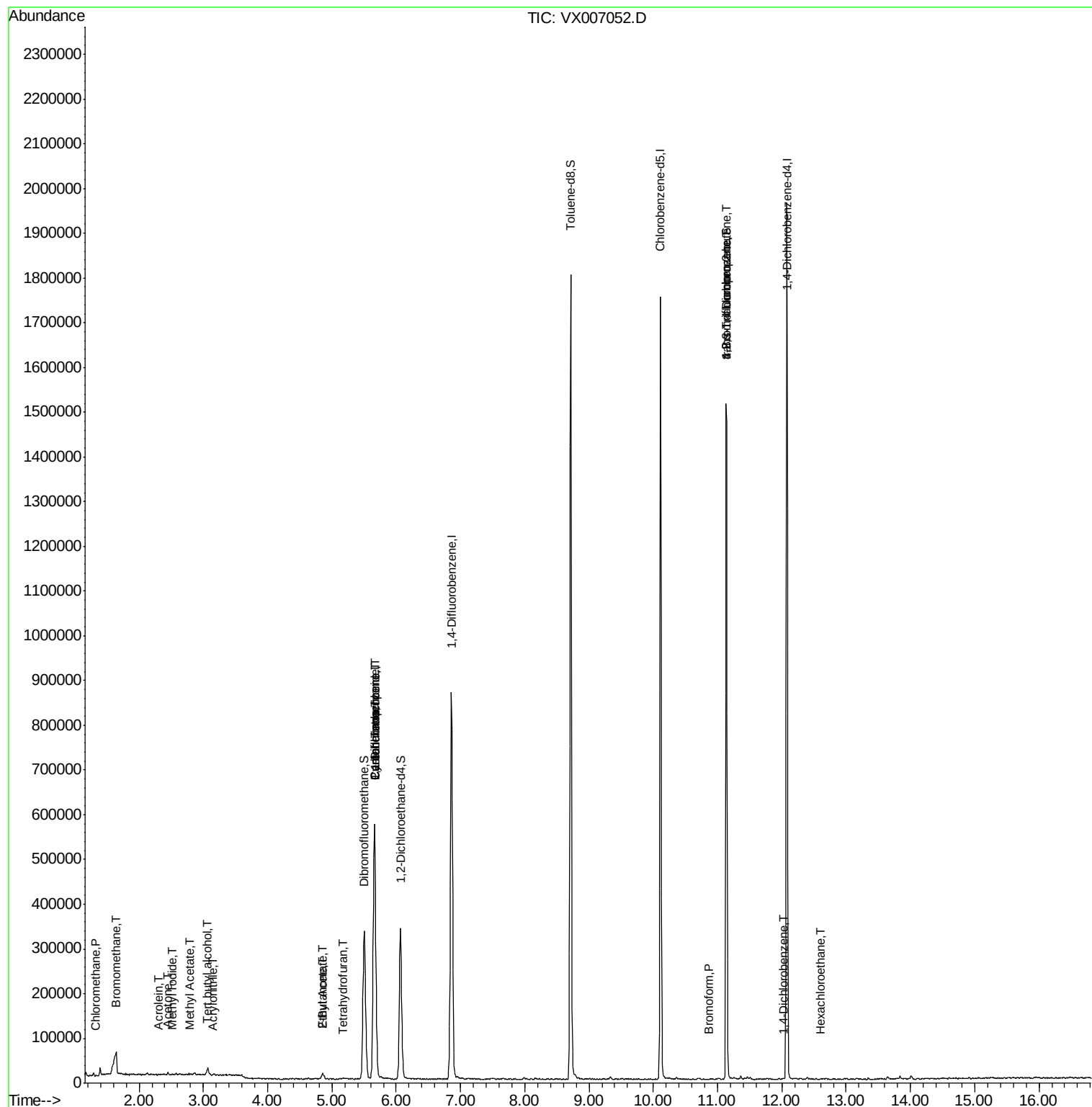
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.33  | 50   | 1494     | 0.262     | ug/l   | 90     |
| 5) Bromomethane                | 1.64  | 94   | 2144     | 0.327     | ug/l # | 72     |
| 10) Methyl Iodide              | 2.51  | 142  | 1765     | 0.221     | ug/l # | 88     |
| 11) Tert butyl alcohol         | 3.07  | 59   | 19805    | 13.473    | ug/l # | 85     |
| 13) Acrolein                   | 2.29  | 56   | 130      | 3.287     | ug/l # | 1      |
| 15) Acrylonitrile              | 3.15  | 53   | 908      | 0.269     | ug/l # | 82     |
| 16) Acetone                    | 2.45  | 43   | 3985     | 1.294     | ug/l   | 93     |
| 18) Methyl Acetate             | 2.79  | 43   | 1801     | 0.202     | ug/l # | 50     |
| 20) Methylene Chloride         | 2.85  | 84   | 2905     | Below Cal | #      | 86     |
| 25) 2-Butanone                 | 4.85  | 43   | 19938    | 4.523     | ug/l # | 47     |
| 29) Tetrahydrofuran            | 5.16  | 42   | 1811     | 0.632     | ug/l   | 87     |
| 31) Cyclohexane                | 5.66  | 56   | 11405    | 1.298     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 37328    | 4.636     | ug/l # | 49     |
| 37) Ethyl Acetate              | 4.85  | 43   | 19938    | 2.310     | ug/l # | 93     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 53539    | 6.609     | ug/l # | 15     |
| 49) 1,4-Dioxane                | 7.76  | 88   | 173      | Below Cal | #      | 1      |
| 71) Bromoform                  | 10.86 | 173  | 102      | 4.744     | ug/l # | 28     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 185678   | 21.925    | ug/l # | 40     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 185678   | 64.944    | ug/l # | 10     |
| 88) 1,4-Dichlorobenzene        | 12.02 | 146  | 1231     | 0.233     | ug/l   | 85     |
| 90) Hexachloroethane           | 12.60 | 117  | 251      | 2.965     | ug/l # | 6      |

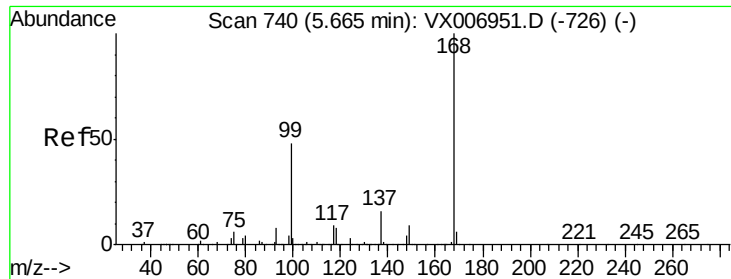
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Jan 08 14:06:59 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007052.D

Acq: 15 Jan 2019 12:27

Instrument :

MSVOA\_X

ClientSampleId :

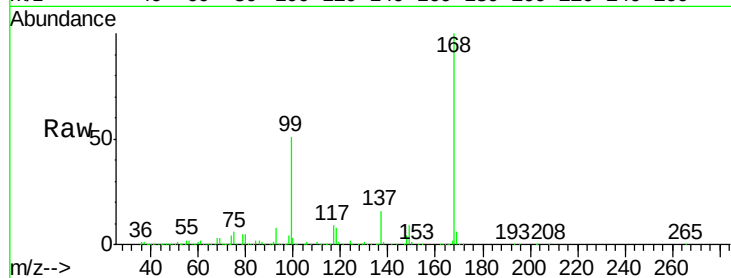
TB-A-190114-01

Tot Ion:168 Resp: 596280

Ion Ratio Lower Upper

168 100

99 50.7 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

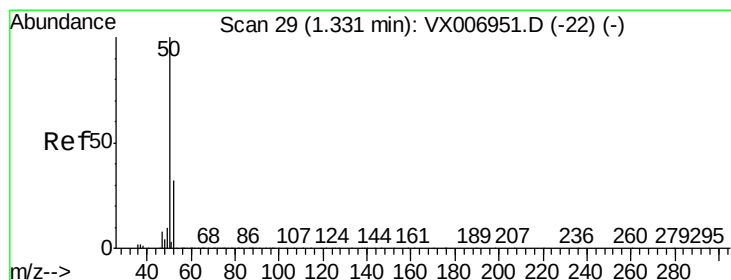
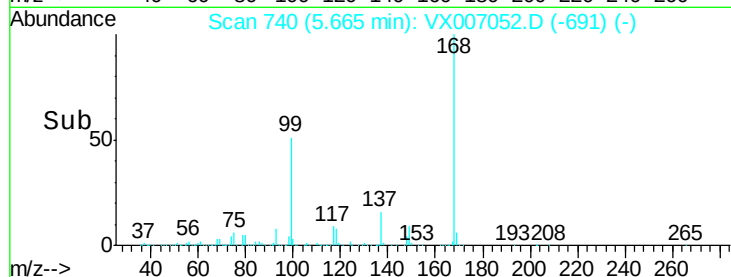
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.262 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX007052.D

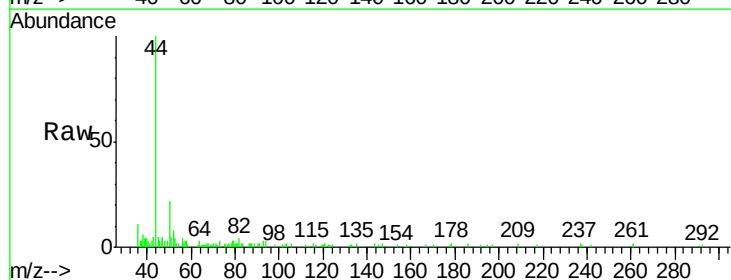
Acq: 15 Jan 2019 12:27

Tgt Ion: 50 Resp: 1494

Ion Ratio Lower Upper

50 100

52 37.4 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

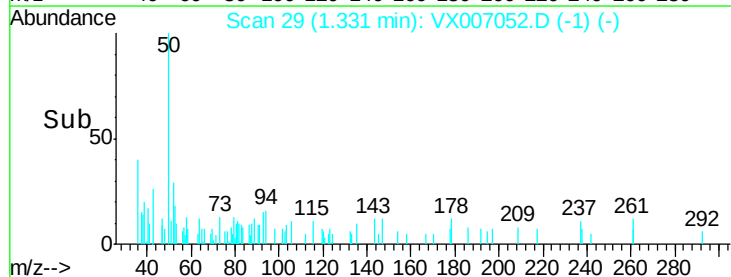
1.33

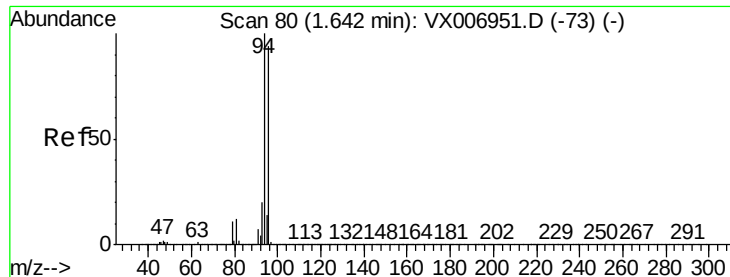
1000

500

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.327 ug/l

RT: 1.64 min Scan# 80

Delta R.T. -0.00 min

Lab File: VX007052.D

Acq: 15 Jan 2019 12:27

Instrument :

MSVOA\_X

ClientSampleId :

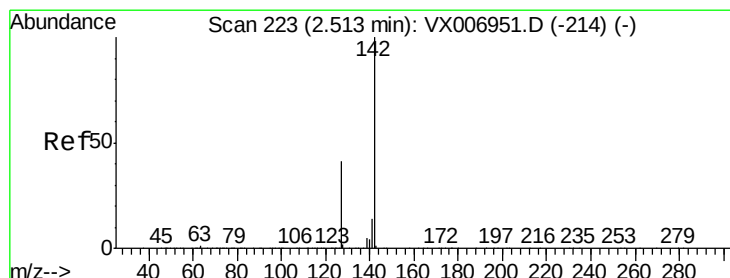
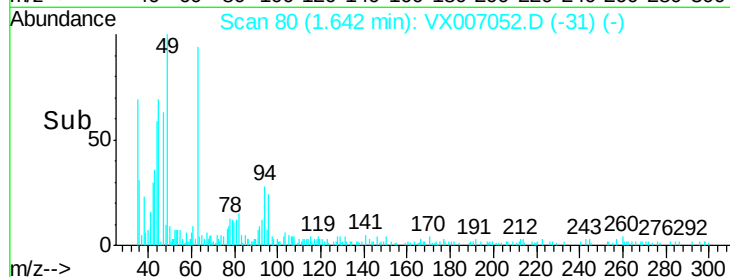
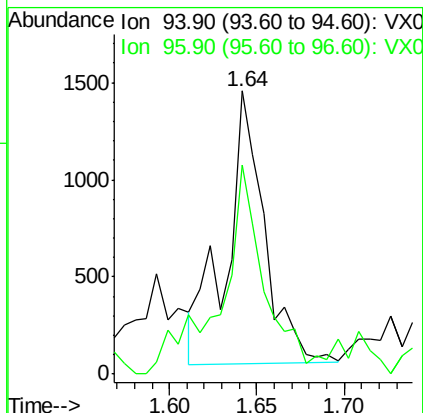
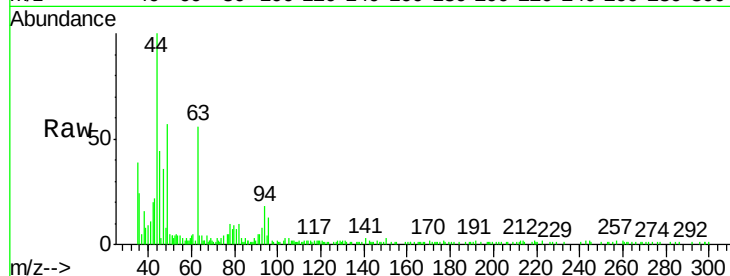
TB-A-190114-01

Tot Ion: 94 Resp: 2144

Ion Ratio Lower Upper

94 100

96 64.9 73.4 110.2#



#10

Methyl Iodide

Concen: 0.221 ug/l

RT: 2.51 min Scan# 223

Delta R.T. -0.00 min

Lab File: VX007052.D

Acq: 15 Jan 2019 12:27

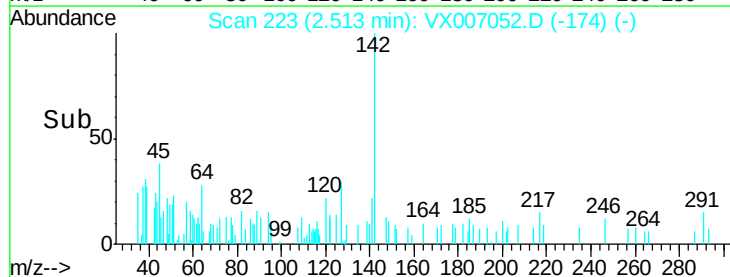
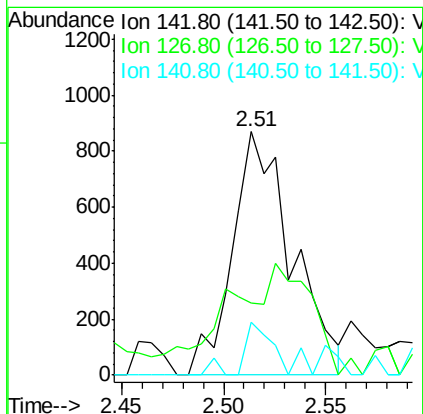
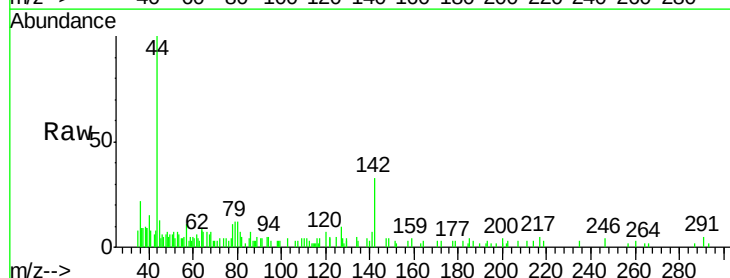
Tgt Ion:142 Resp: 1765

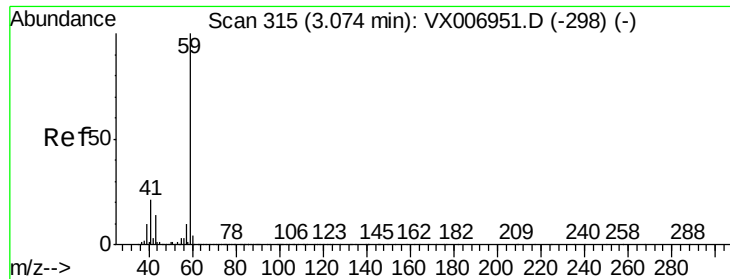
Ion Ratio Lower Upper

142 100

127 34.1 33.9 50.9

141 10.4 11.4 17.0#



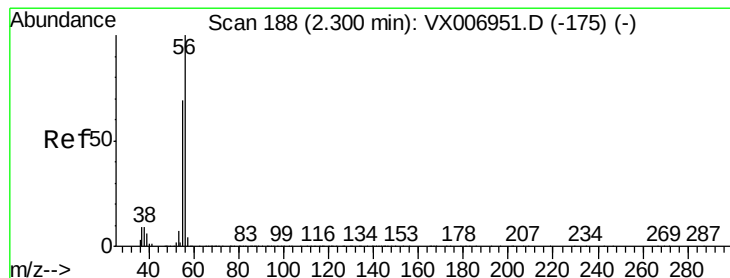
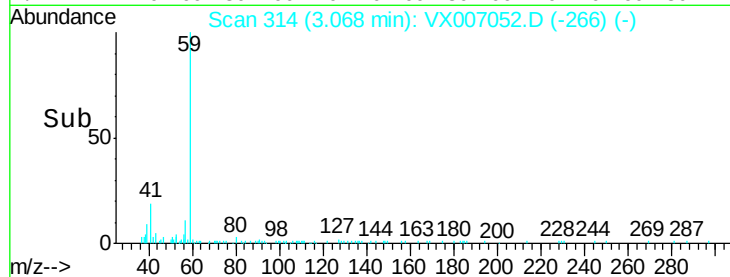
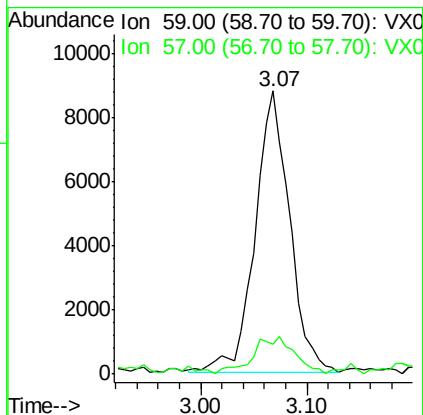
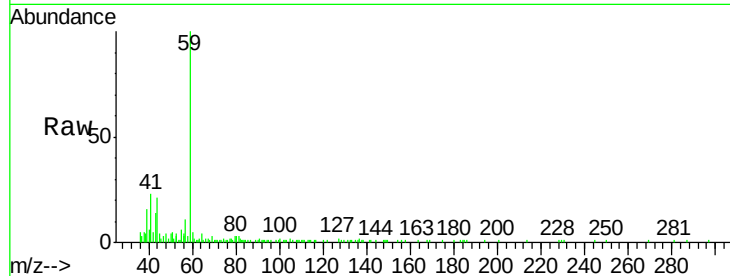


#11

Tert butyl alcohol  
 Concen: 13.473 ug/l  
 RT: 3.07 min Scan# 314  
 Delta R.T. -0.01 min  
 Lab File: VX007052.D  
 Acq: 15 Jan 2019 12:27

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TB-A-190114-01

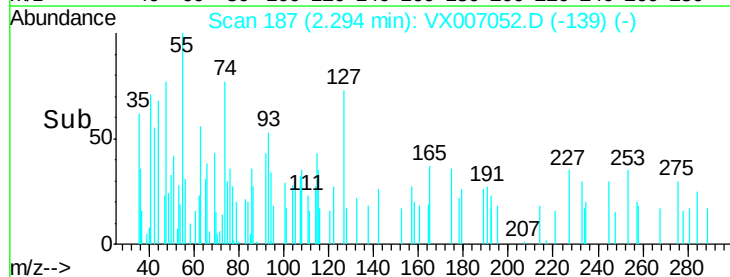
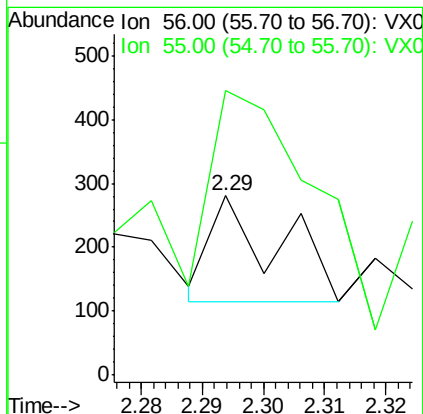
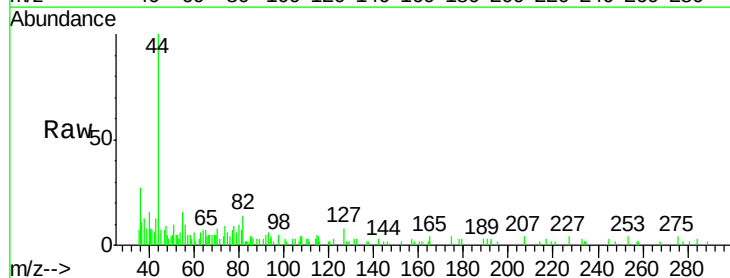
Tot Ion: 59 Resp: 19805  
 Ion Ratio Lower Upper  
 59 100  
 57 16.1 8.5 12.7#

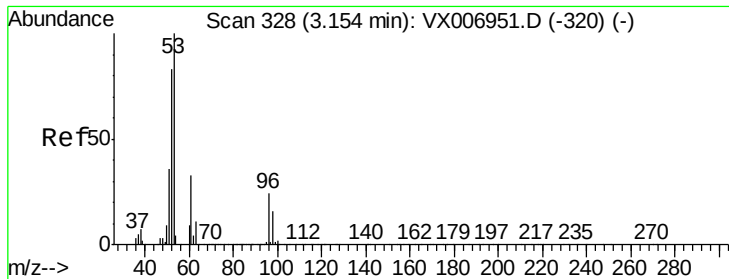


#13

Acrolein  
 Concen: 3.287 ug/l  
 RT: 2.29 min Scan# 187  
 Delta R.T. -0.01 min  
 Lab File: VX007052.D  
 Acq: 15 Jan 2019 12:27

Tgt Ion: 56 Resp: 130  
 Ion Ratio Lower Upper  
 56 100  
 55 446.2 58.2 87.4#





#15

Acrylonitrile

Concen: 0.269 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.01 min

Lab File: VX007052.D

Acq: 15 Jan 2019 12:27

Instrument :

MSVOA\_X

ClientSampled :

TB-A-190114-01

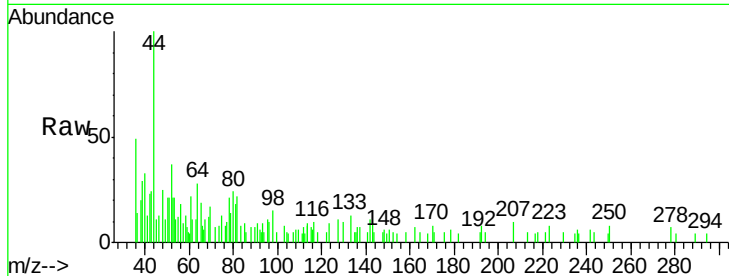
Tot Ion: 53 Resp: 908

Ion Ratio Lower Upper

53 100

52 59.8 66.0 99.0#

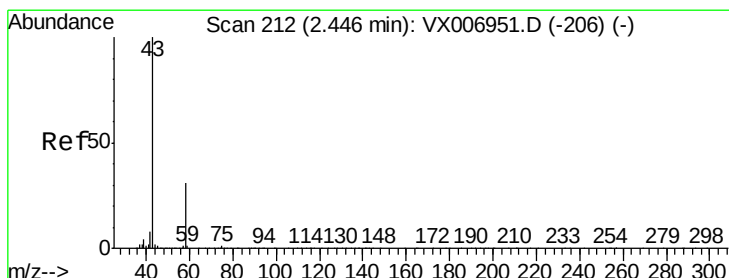
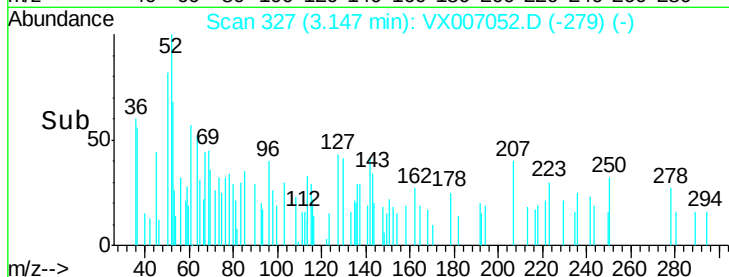
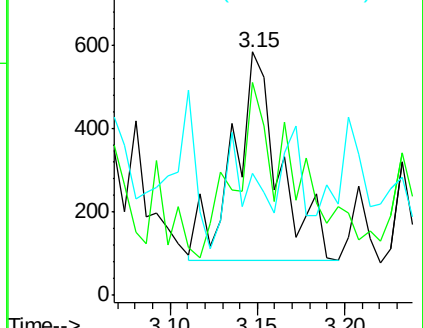
51 34.5 28.6 42.8



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: 1.294 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX007052.D

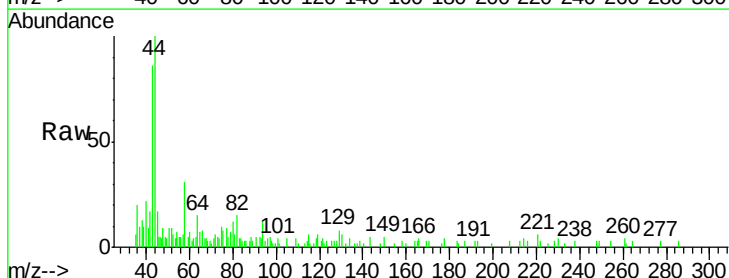
Acq: 15 Jan 2019 12:27

Tgt Ion: 43 Resp: 3985

Ion Ratio Lower Upper

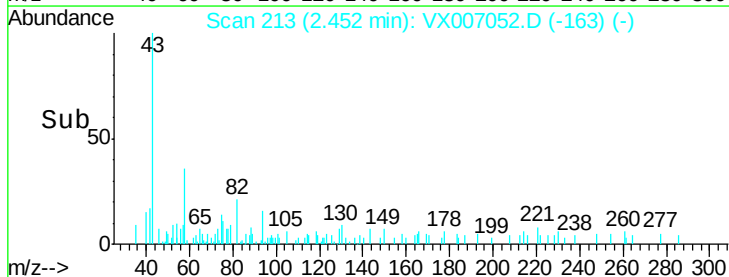
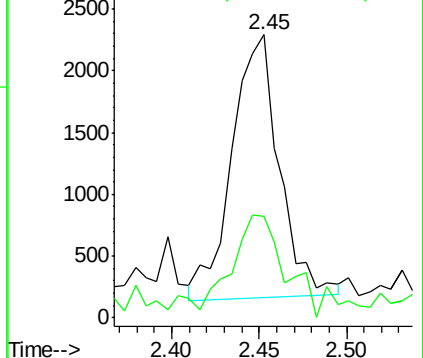
43 100

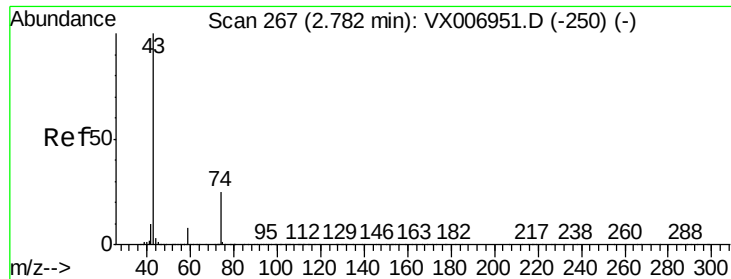
58 35.0 25.0 37.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

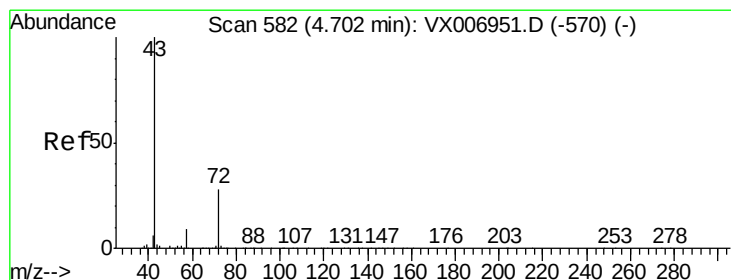
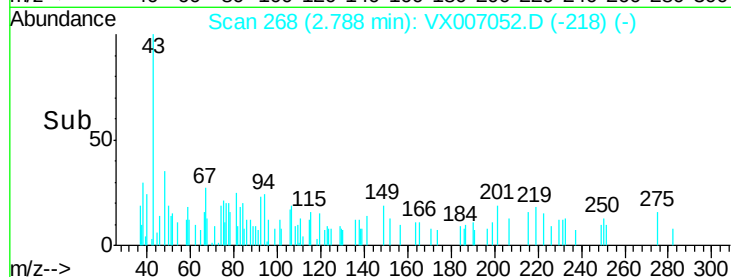
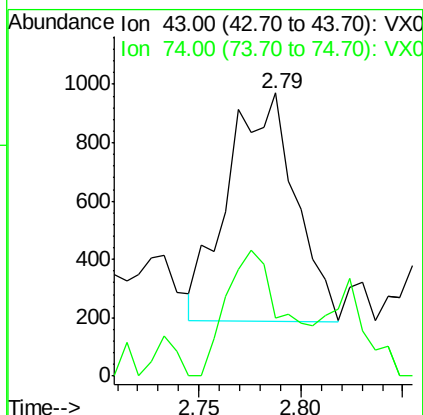
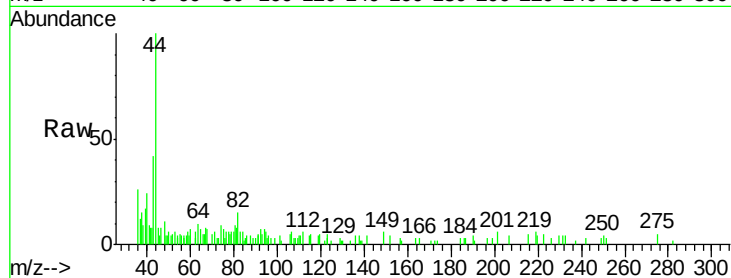




#18  
Methyl Acetate  
Concen: 0.202 ug/l  
RT: 2.79 min Scan# 268  
Delta R.T. 0.01 min  
Lab File: VX007052.D  
Acq: 15 Jan 2019 12:27

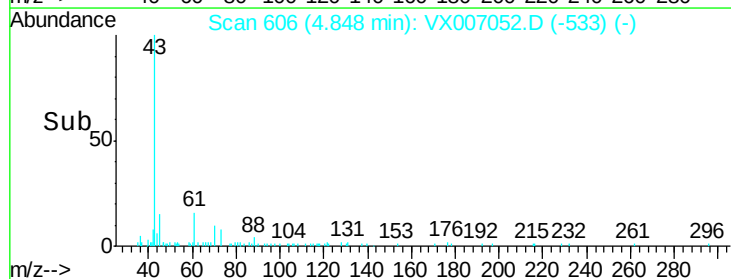
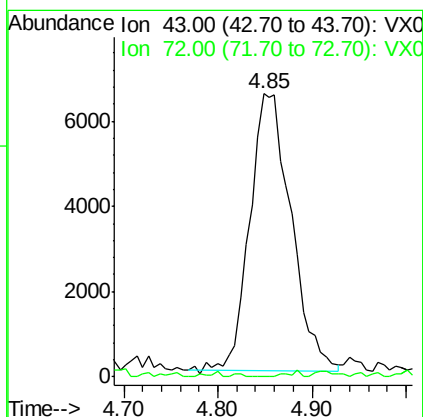
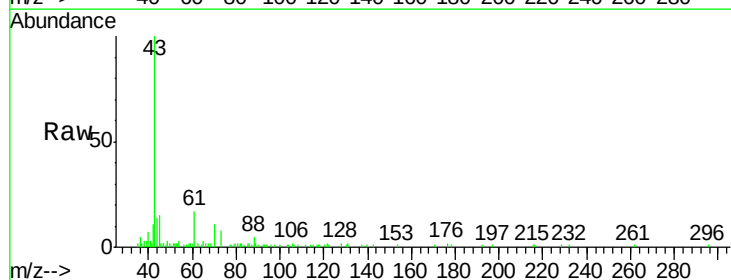
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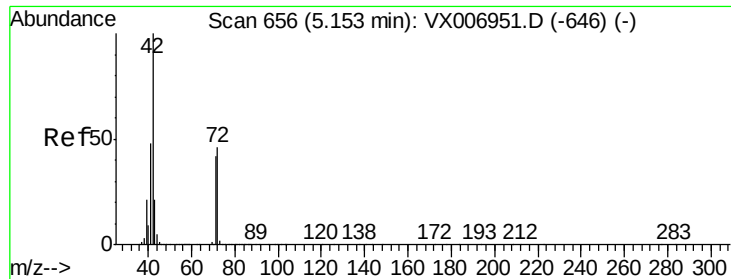
Tot Ion: 43 Resp: 1801  
Ion Ratio Lower Upper  
43 100  
74 47.6 18.6 28.0#



#25  
2-Butanone  
Concen: 4.523 ug/l  
RT: 4.85 min Scan# 606  
Delta R.T. 0.15 min  
Lab File: VX007052.D  
Acq: 15 Jan 2019 12:27

Tgt Ion: 43 Resp: 19938  
Ion Ratio Lower Upper  
43 100  
72 0.0 22.4 33.6#

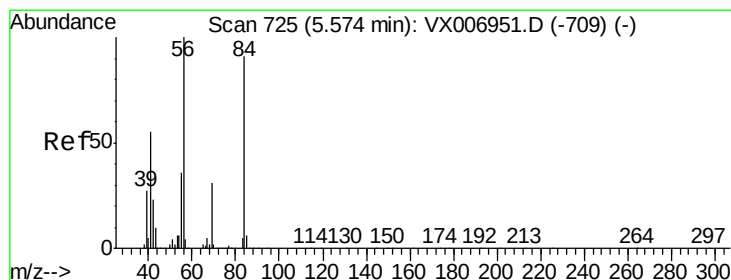
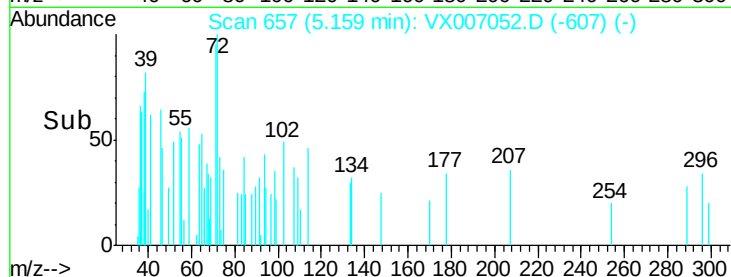
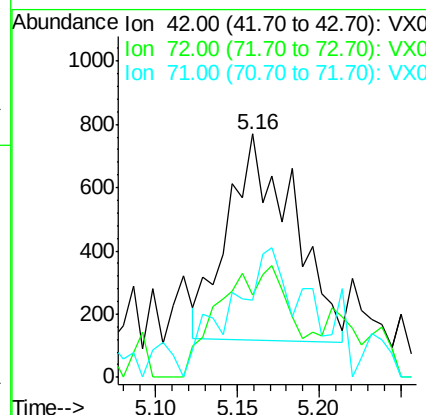
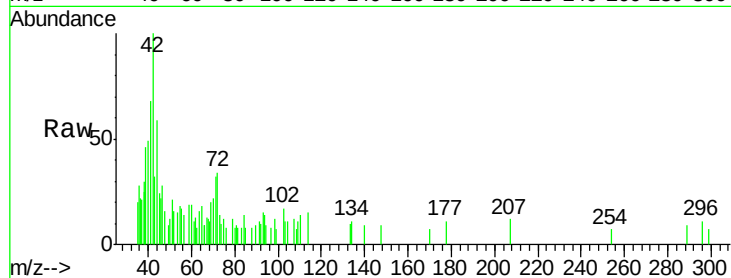




#29  
Tetrahydrofuran  
Concen: 0.632 ug/l  
RT: 5.16 min Scan# 657  
Delta R.T. 0.01 min  
Lab File: VX007052.D  
Acq: 15 Jan 2019 12:27

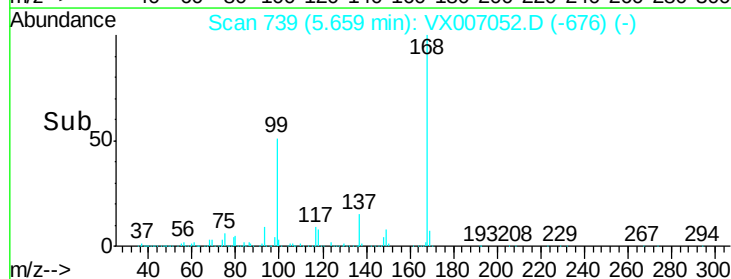
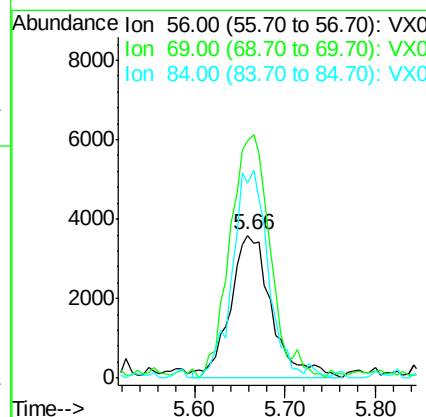
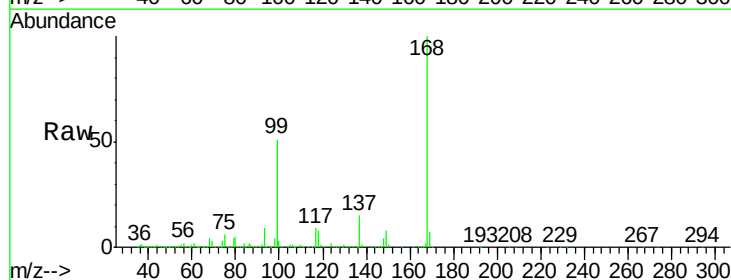
Instrument :  
MSVOA\_X  
ClientSampled :  
TB-A-190114-01

Tot Ion: 42 Resp: 1811  
Ion Ratio Lower Upper  
42 100  
72 57.2 38.9 58.3  
71 53.8 36.2 54.4

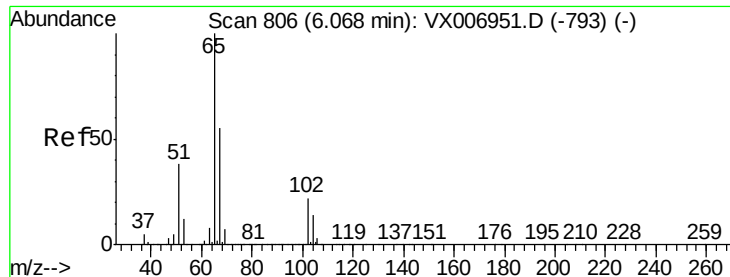


#31  
Cyclohexane  
Concen: 1.298 ug/l  
RT: 5.66 min Scan# 739  
Delta R.T. 0.09 min  
Lab File: VX007052.D  
Acq: 15 Jan 2019 12:27

Tgt Ion: 56 Resp: 11405  
Ion Ratio Lower Upper  
56 100  
69 162.8 24.4 36.6#  
84 141.0 70.0 105.0#



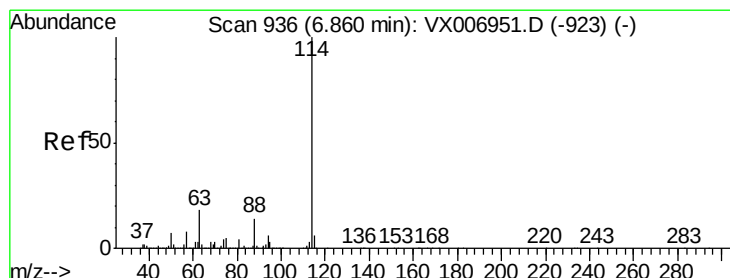
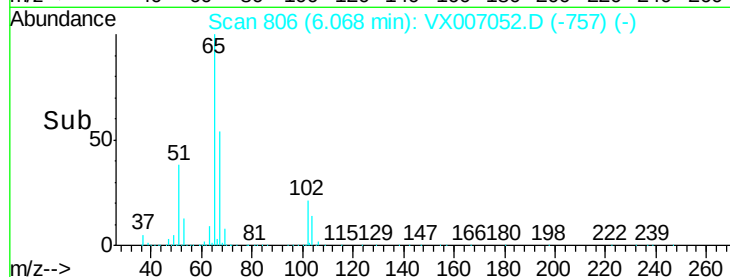
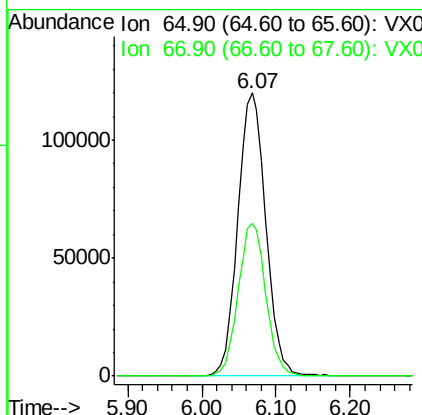
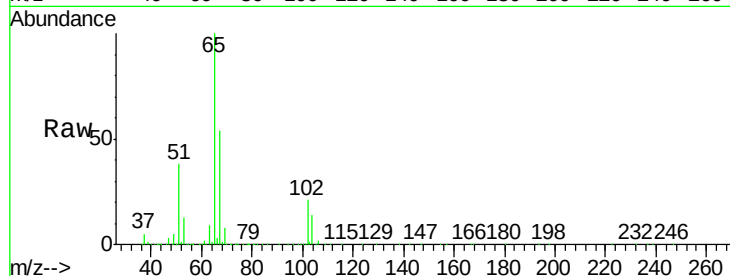




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.921 ug/l  
 RT: 6.07 min Scan# 806  
 Delta R.T. -0.00 min  
 Lab File: VX007052.D  
 Acq: 15 Jan 2019 12:27

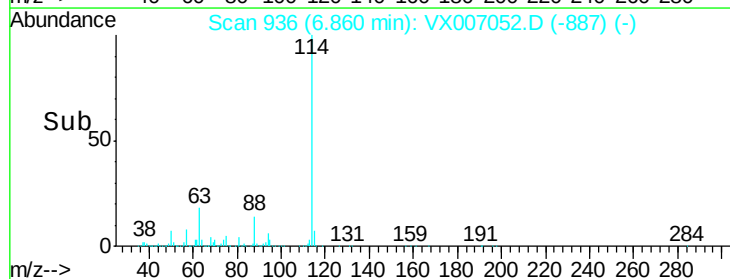
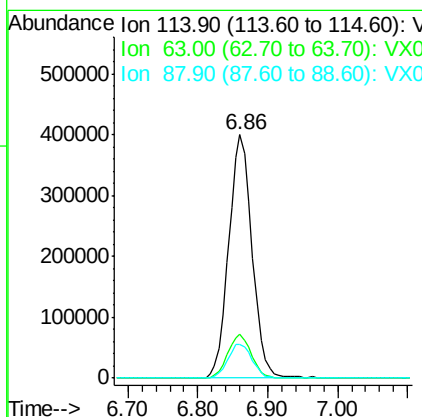
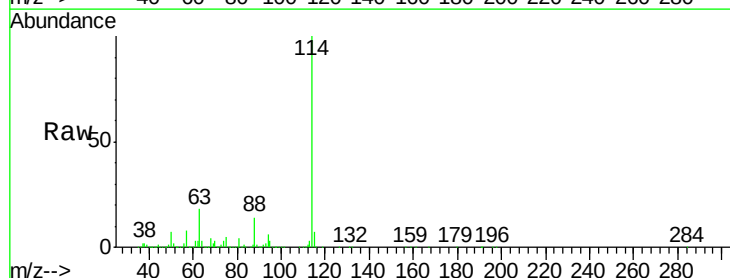
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TB-A-190114-01

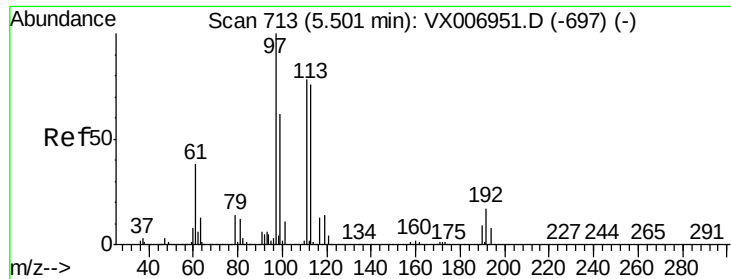
Tot Ion: 65 Resp: 317319  
 Ion Ratio Lower Upper  
 65 100  
 67 53.4 0.0 105.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. -0.00 min  
 Lab File: VX007052.D  
 Acq: 15 Jan 2019 12:27

Tgt Ion: 114 Resp: 926092  
 Ion Ratio Lower Upper  
 114 100  
 63 17.8 0.0 34.8  
 88 14.0 0.0 28.8





#35

Dibromofluoromethane

Concen: 47.653 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX007052.D

Acq: 15 Jan 2019 12:27

Instrument :

MSVOA\_X

ClientSampleId :

TB-A-190114-01

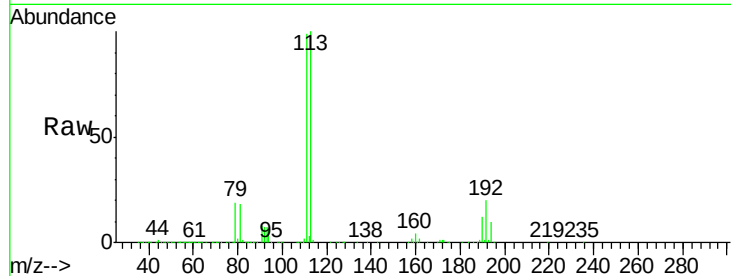
Tot Ion:113 Resp: 282612

Ion Ratio Lower Upper

113 100

111 102.3 81.6 122.4

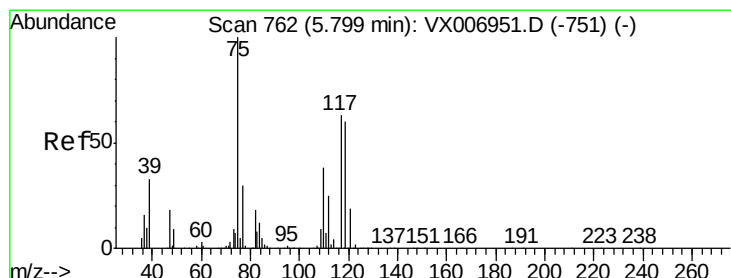
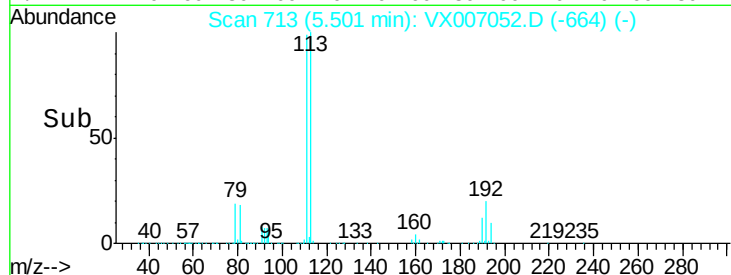
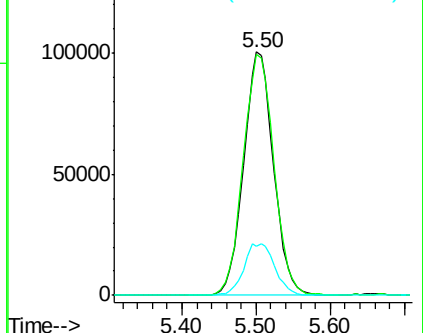
192 22.0 16.7 25.1



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: 4.636 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007052.D

Acq: 15 Jan 2019 12:27

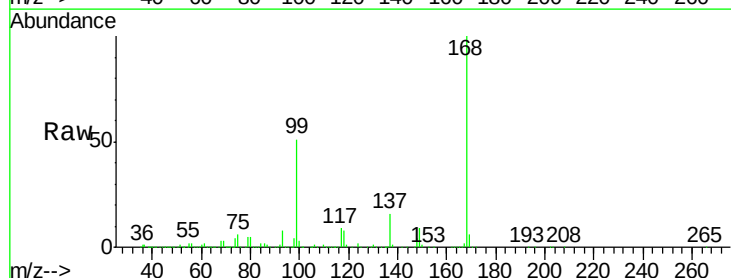
Tgt Ion: 75 Resp: 37328

Ion Ratio Lower Upper

75 100

110 11.1 20.2 60.5#

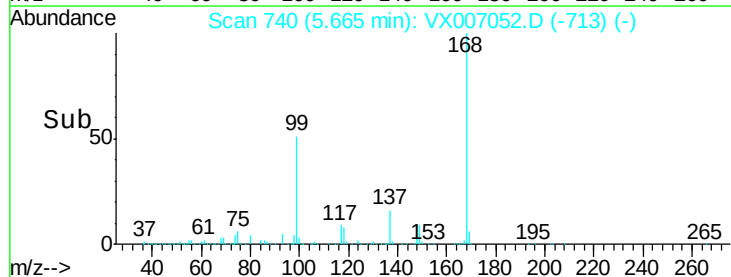
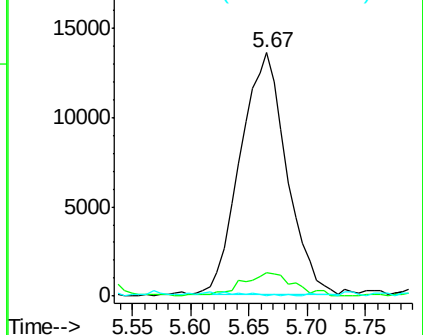
77 0.1 24.8 37.2#

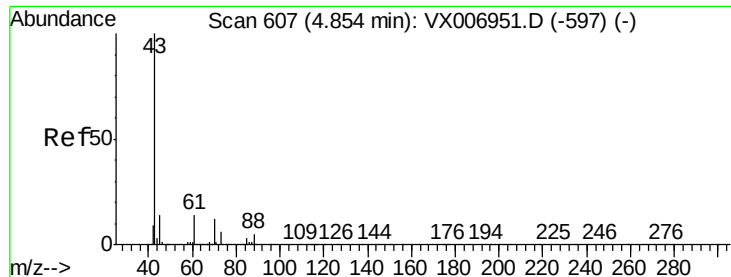


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 2.310 ug/l

RT: 4.85 min Scan# 606

Delta R.T. -0.01 min

Lab File: VX007052.D

Acq: 15 Jan 2019 12:27

Instrument :

MSVOA\_X

ClientSampleId :

TB-A-190114-01

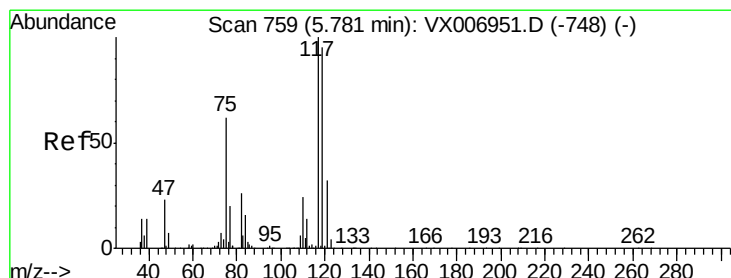
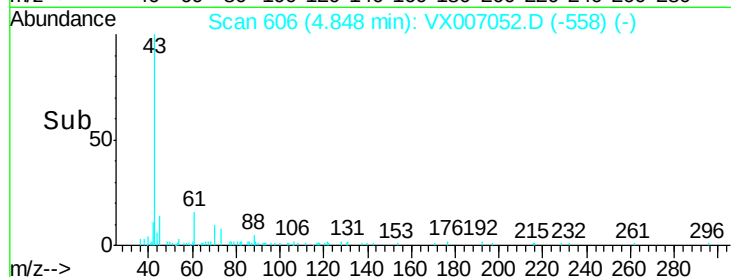
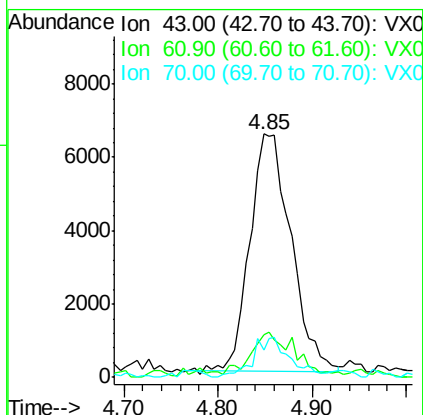
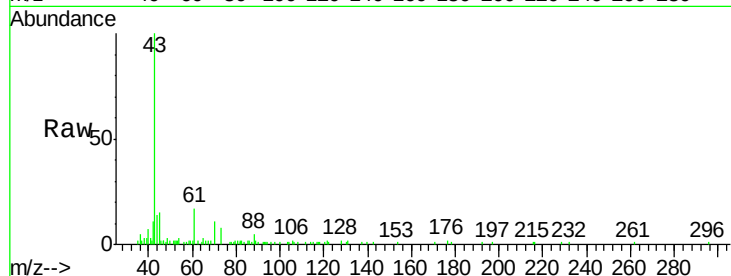
Tot Ion: 43 Resp: 19938

Ion Ratio Lower Upper

43 100

61 17.9 11.9 17.9#

70 14.8 9.7 14.5#



#38

Carbon Tetrachloride

Concen: 6.609 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007052.D

Acq: 15 Jan 2019 12:27

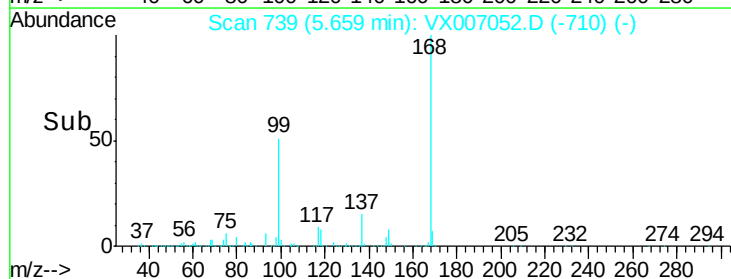
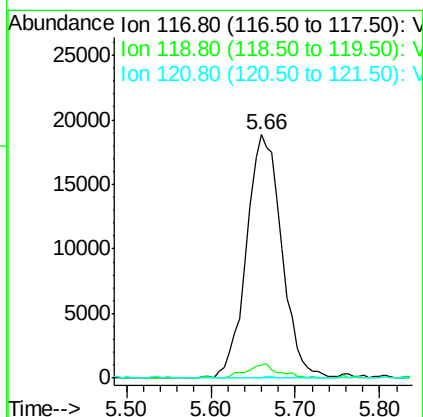
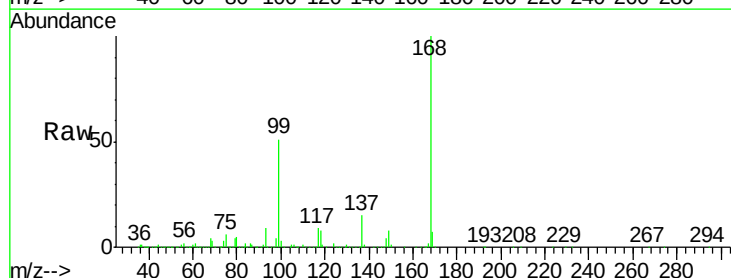
Tgt Ion: 117 Resp: 53539

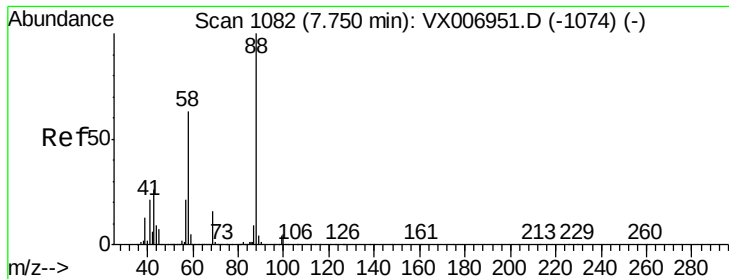
Ion Ratio Lower Upper

117 100

119 5.7 79.4 119.2#

121 0.0 24.0 36.0#





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX007052.D

Acq: 15 Jan 2019 12:27

Instrument :

MSVOA\_X

ClientSampleId :

TB-A-190114-01

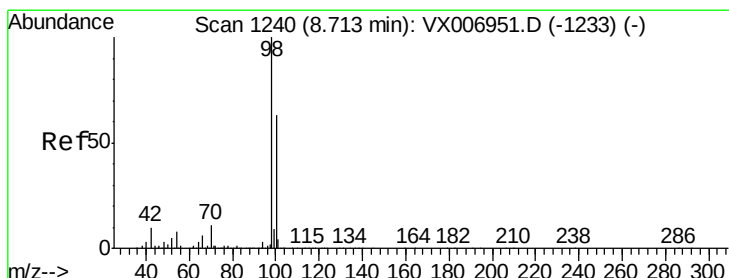
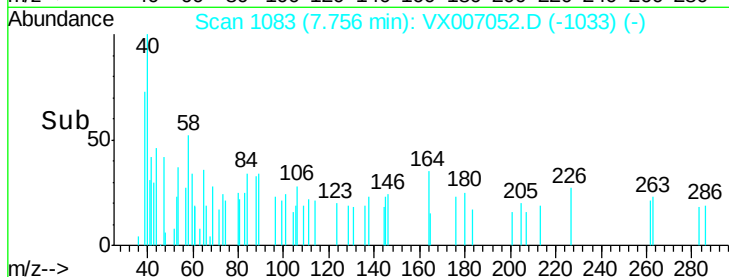
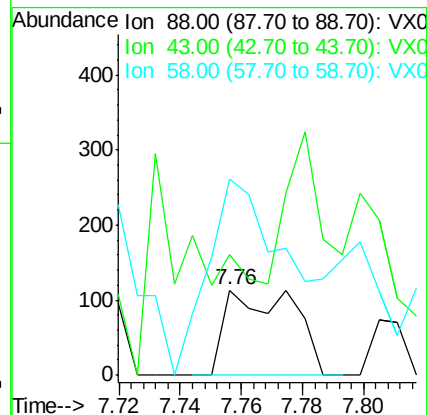
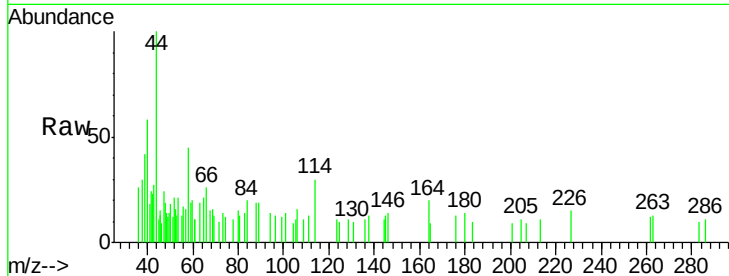
Tot Ion: 88 Resp: 173

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

58 253.8 51.0 76.4#



#50

Toluene-d8

Concen: 50.200 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007052.D

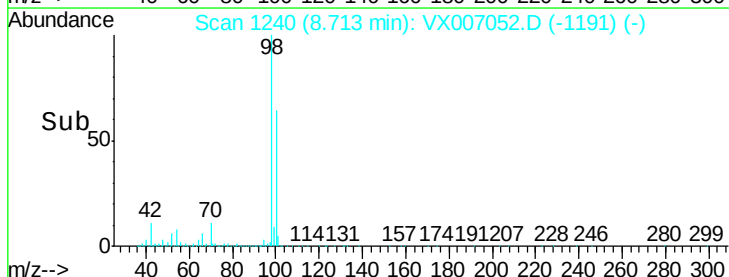
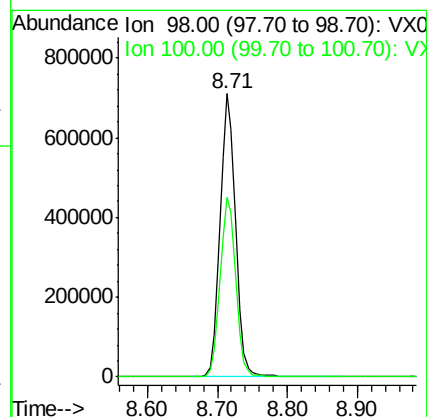
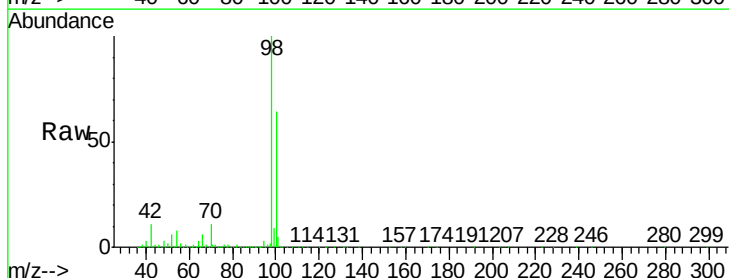
Acq: 15 Jan 2019 12:27

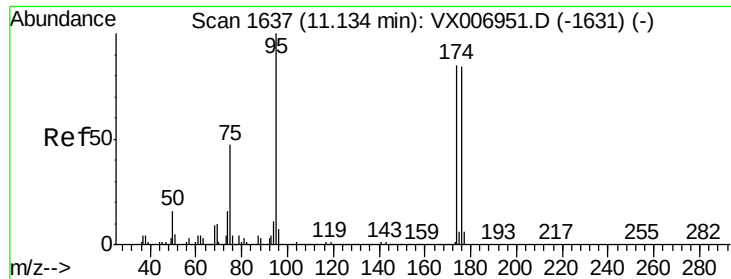
Tgt Ion: 98 Resp: 1089745

Ion Ratio Lower Upper

98 100

100 64.2 52.0 78.0





#62

4-Bromofluorobenzene

Concen: 51.958 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007052.D

Acq: 15 Jan 2019 12:27

Instrument :

MSVOA\_X

ClientSampleId :

TB-A-190114-01

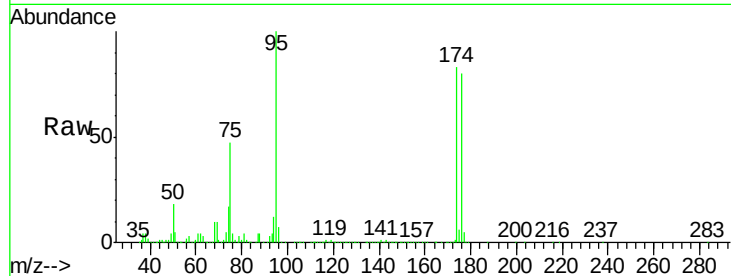
Tot Ion: 95 Resp: 393216

Ion Ratio Lower Upper

95 100

174 92.2 0.0 182.2

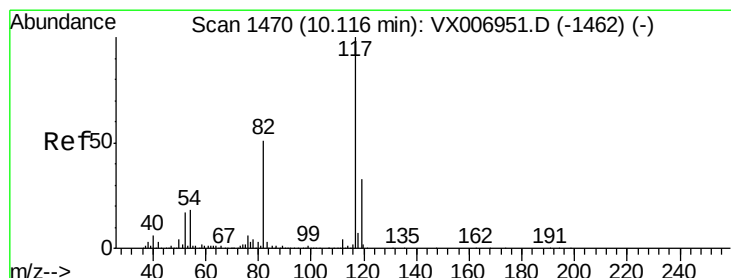
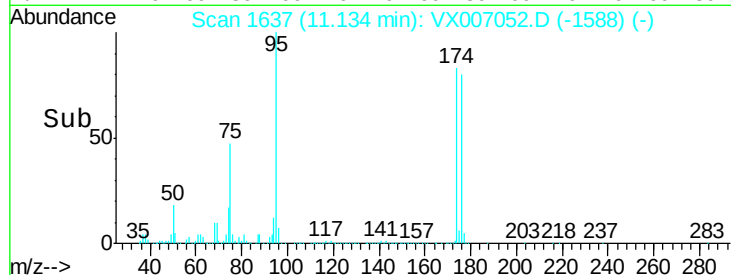
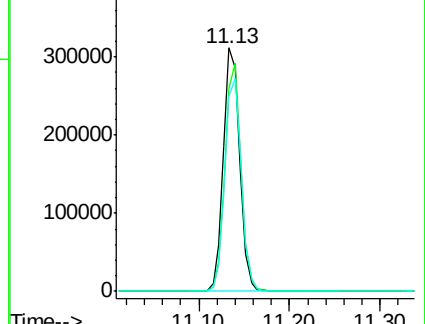
176 88.2 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VX006951.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX006951.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX006951.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX007052.D

Acq: 15 Jan 2019 12:27

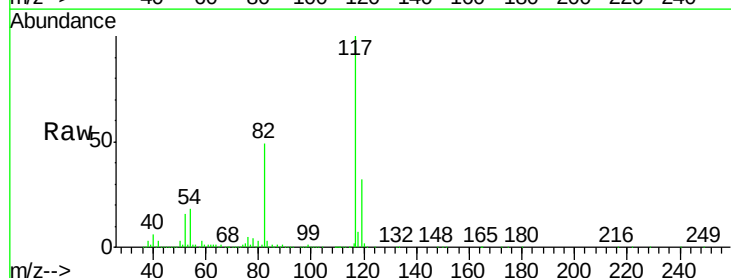
Tgt Ion: 117 Resp: 861238

Ion Ratio Lower Upper

117 100

82 49.4 41.0 61.6

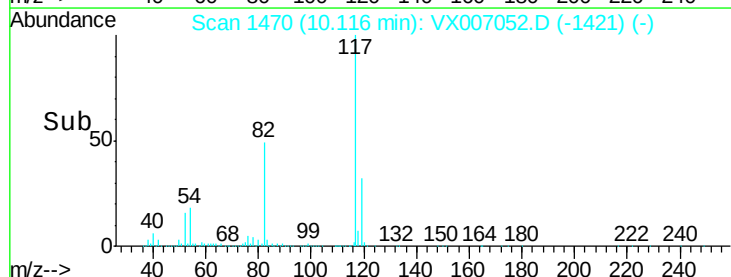
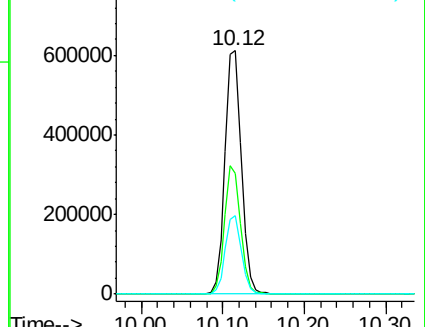
119 32.4 25.4 38.0

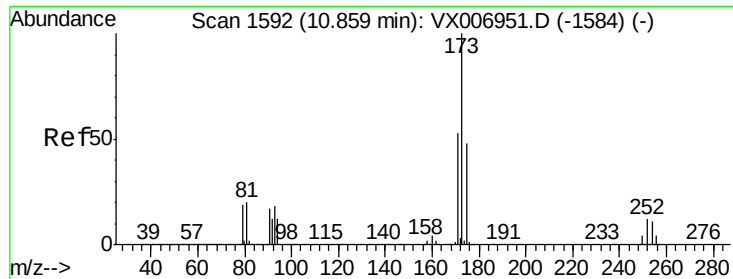


Abundance Ion 116.90 (116.60 to 117.60): VX006951.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX006951.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX006951.D (-1462) (-)





#71

Bromoform

Concen: 4.744 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. 0.00 min

Lab File: VX007052.D

Acq: 15 Jan 2019 12:27

Instrument :

MSVOA\_X

ClientSampleId :

TB-A-190114-01

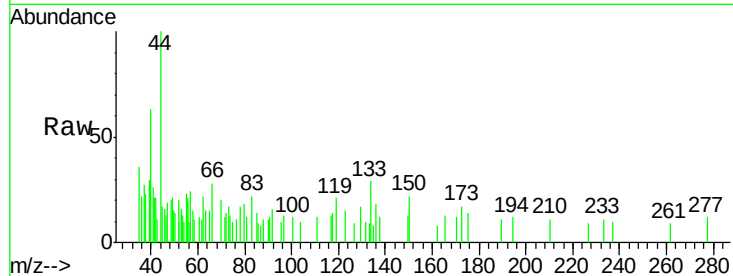
Tot Ion:173 Resp: 102

Ion Ratio Lower Upper

173 100

175 0.0 24.7 74.1#

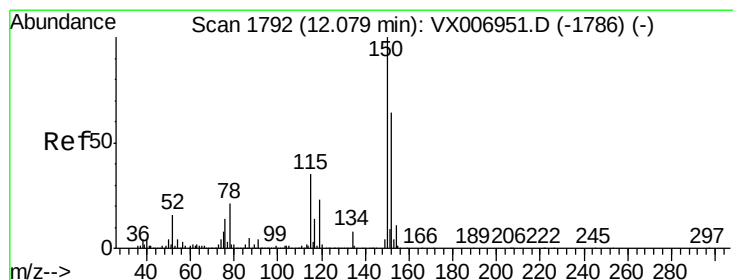
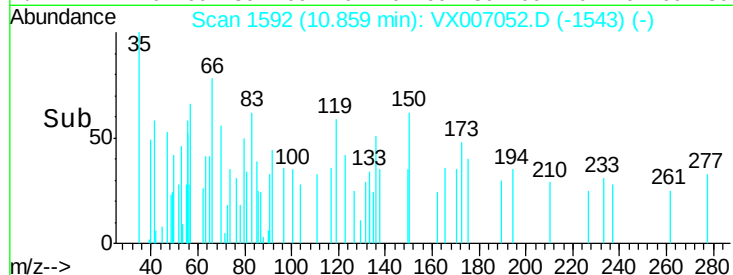
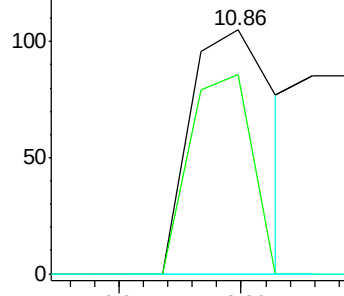
254 0.0 0.2 0.2#



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: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007052.D

Acq: 15 Jan 2019 12:27

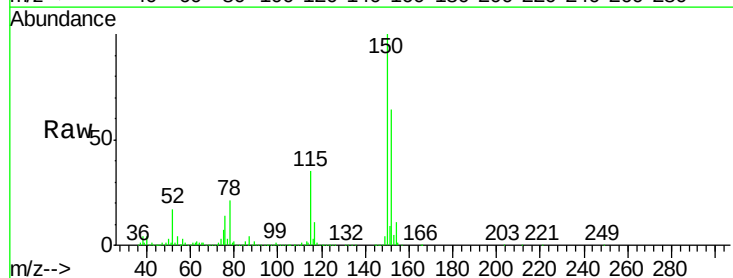
Tgt Ion:152 Resp: 417905

Ion Ratio Lower Upper

152 100

115 55.0 39.1 117.2

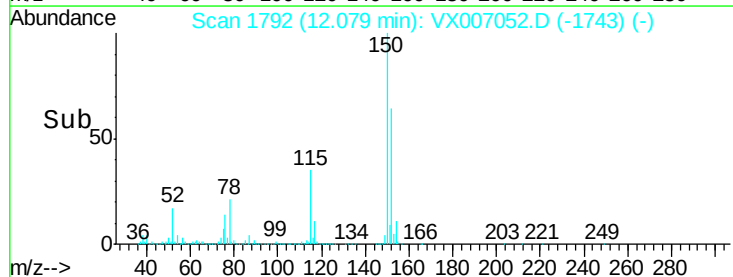
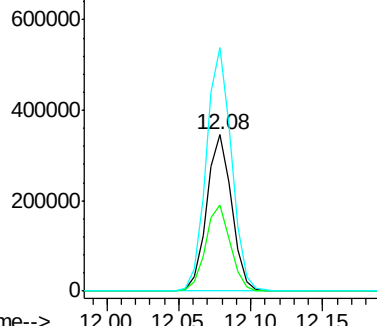
150 157.6 0.0 344.8

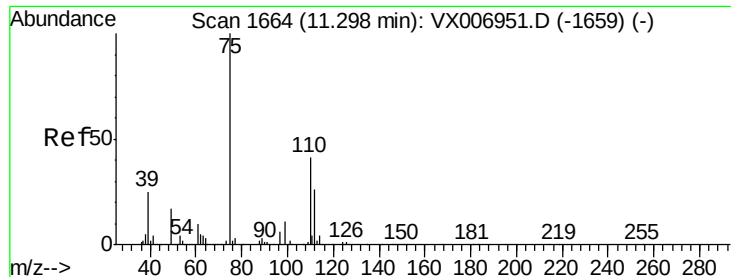


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.925 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007052.D

Acq: 15 Jan 2019 12:27

Instrument :

MSVOA\_X

ClientSampleId :

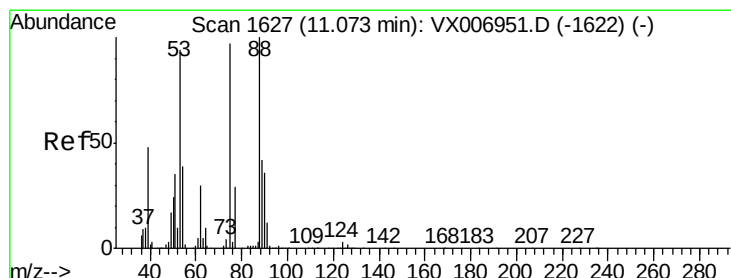
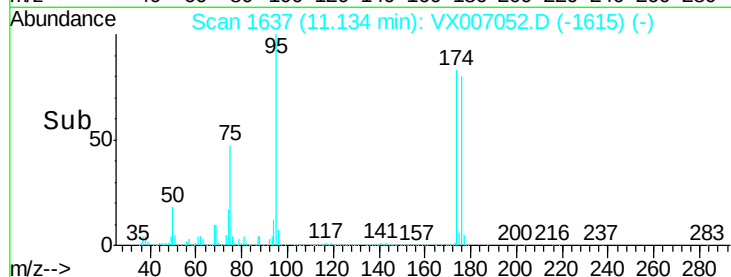
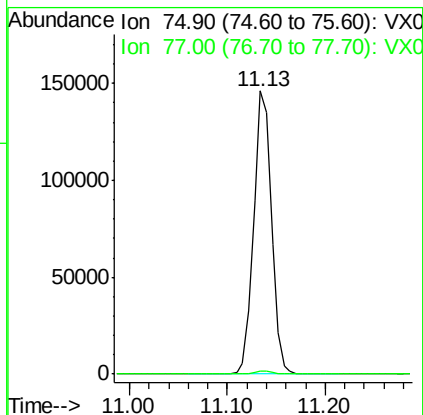
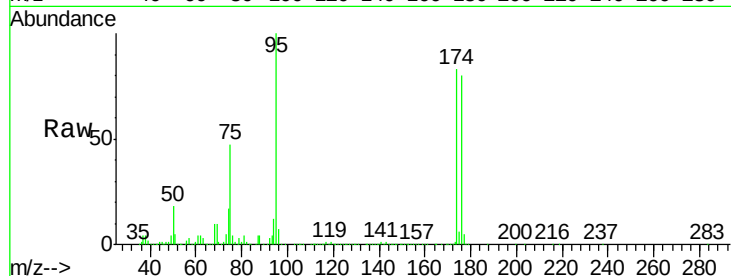
TB-A-190114-01

Tot Ion: 75 Resp: 185678

Ion Ratio Lower Upper

75 100

77 1.3 18.5 55.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.944 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007052.D

Acq: 15 Jan 2019 12:27

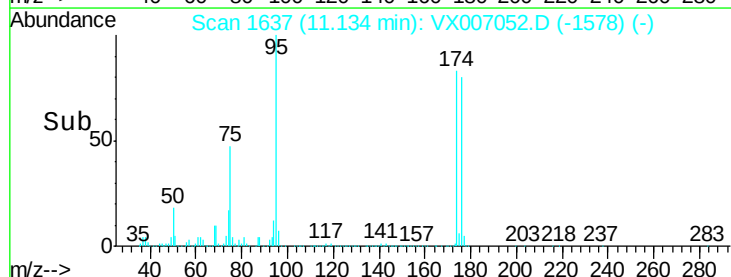
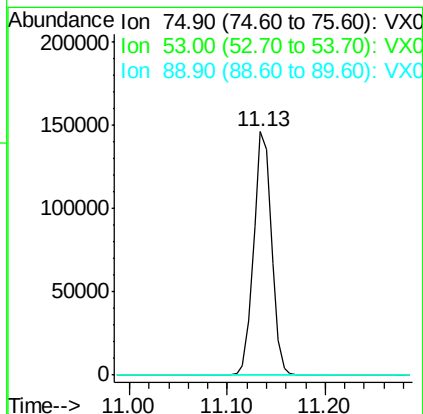
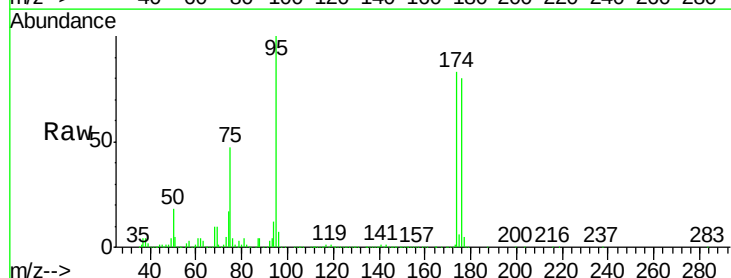
Tgt Ion: 75 Resp: 185678

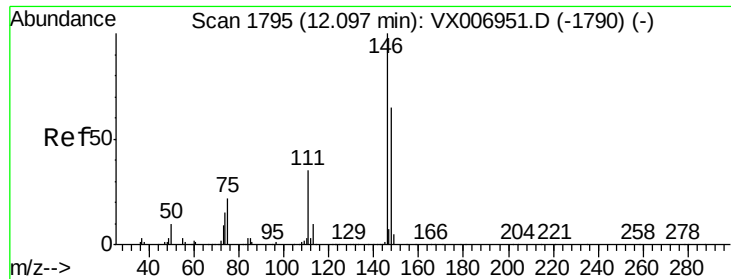
Ion Ratio Lower Upper

75 100

53 0.3 79.7 119.5#

89 0.1 38.0 57.0#





#88

1,4-Dichlorobenzene

Concen: 0.233 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. -0.07 min

Lab File: VX007052.D

Acq: 15 Jan 2019 12:27

Instrument :

MSVOA\_X

ClientSampleId :

TB-A-190114-01

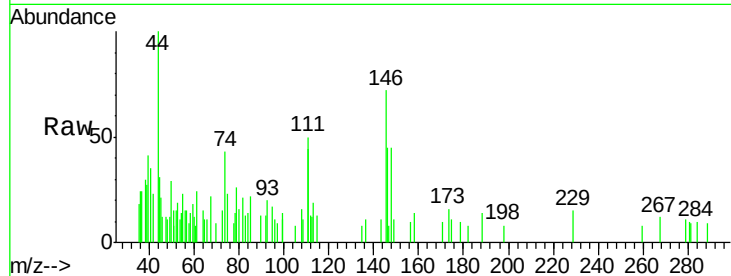
Tot Ion:146 Resp: 1231

Ion Ratio Lower Upper

146 100

111 48.1 18.1 54.1

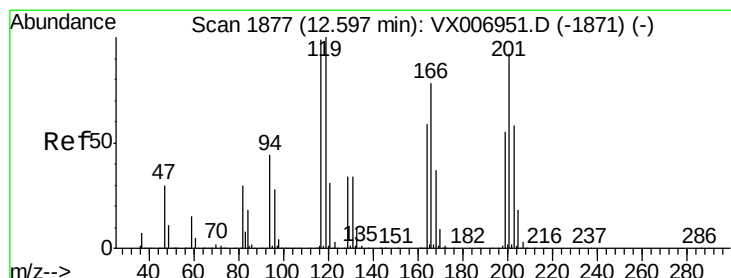
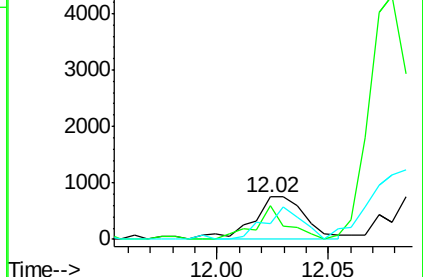
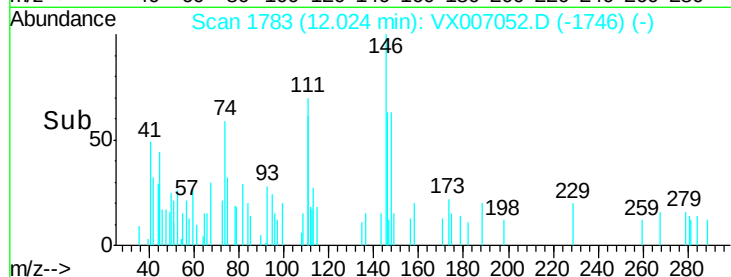
148 54.3 31.9 95.9



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



#90

Hexachloroethane

Concen: 2.965 ug/l

RT: 12.60 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VX007052.D

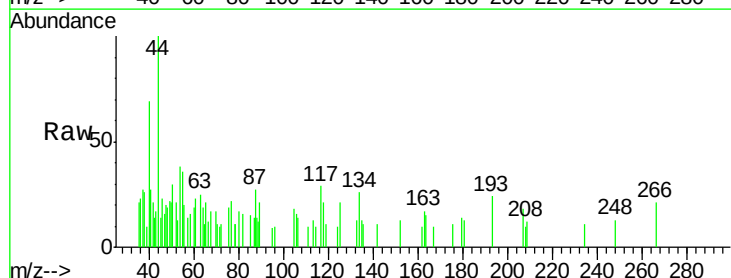
Acq: 15 Jan 2019 12:27

Tgt Ion:117 Resp: 251

Ion Ratio Lower Upper

117 100

201 0.0 42.9 128.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

