

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052919\  
 Data File : VX009937.D  
 Acq On : 29 May 2019 14:06  
 Operator : JC/SP  
 Sample : K3076-03  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FEQC-TB-052819

Quant Time: May 30 01:14:34 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X052819W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 29 04:00:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 177861   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 285184   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 259184   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 113713   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 120724   | 48.05 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.10%  |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 88274    | 49.23 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.46%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 368004   | 50.54 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.08% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 123549   | 47.24 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.48%  |          |

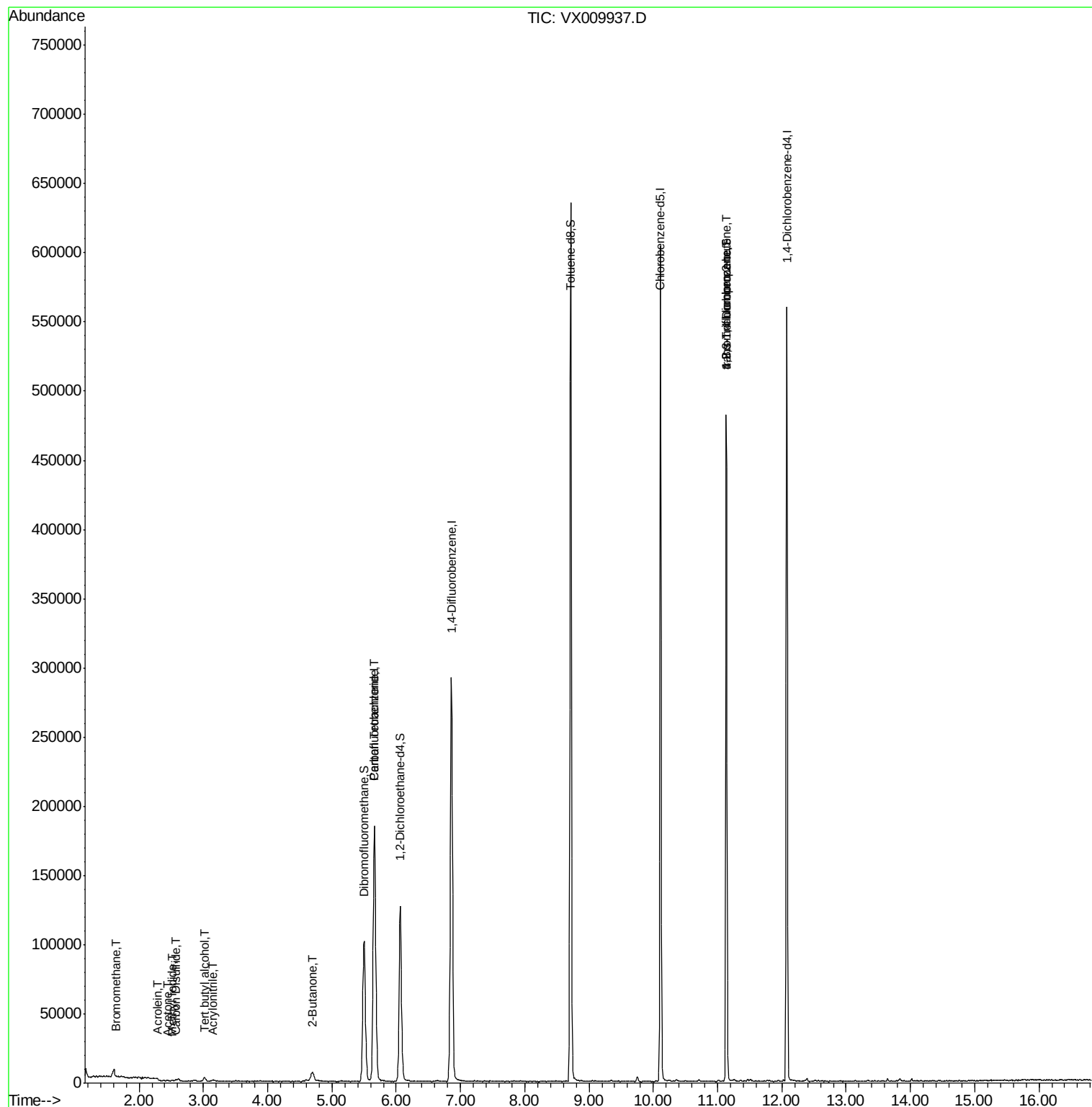
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 5) Bromomethane                | 1.65  | 94   | 383      | 0.240  | ug/l   | 82     |
| 10) Methyl Iodide              | 2.52  | 142  | 363      | 4.808  | ug/l # | 83     |
| 11) Tert butyl alcohol         | 3.02  | 59   | 2070     | 3.348  | ug/l # | 79     |
| 13) Acrolein                   | 2.29  | 56   | 202      | 21.519 | ug/l # | 32     |
| 15) Acrylonitrile              | 3.16  | 53   | 449      | 0.301  | ug/l # | 92     |
| 16) Acetone                    | 2.45  | 43   | 786      | 0.541  | ug/l   | 91     |
| 17) Carbon Disulfide           | 2.57  | 76   | 1323     | 0.625  | ug/l   | 96     |
| 25) 2-Butanone                 | 4.69  | 43   | 484      | 0.214  | ug/l # | 69     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 17070    | 6.827  | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 64261    | 23.632 | ug/l # | 34     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 64261    | 58.470 | ug/l # | 10     |

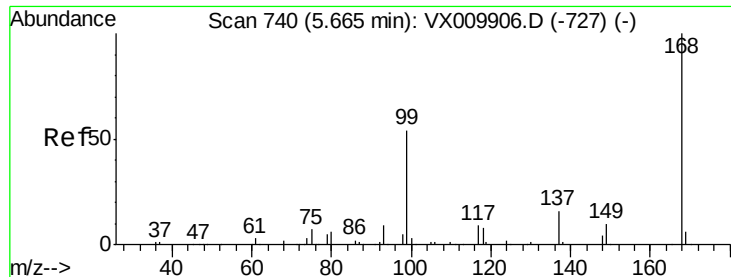
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed May 29 04:00:56 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: VX009937.D

Acq: 29 May 2019 14:06

Instrument :

MSVOA\_X

ClientSampleId :

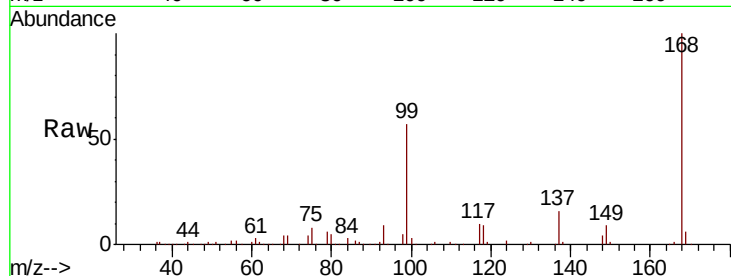
FEQC-TB-052819

Tot Ion:168 Resp: 177861

Ion Ratio Lower Upper

168 100

99 56.9 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

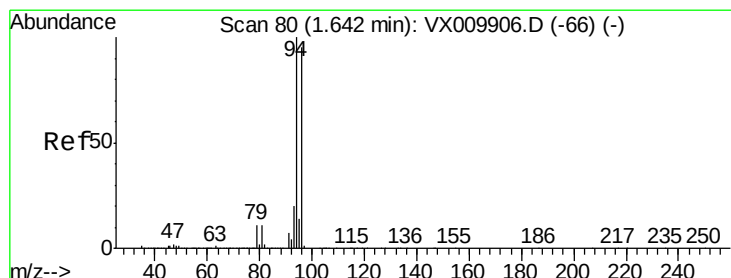
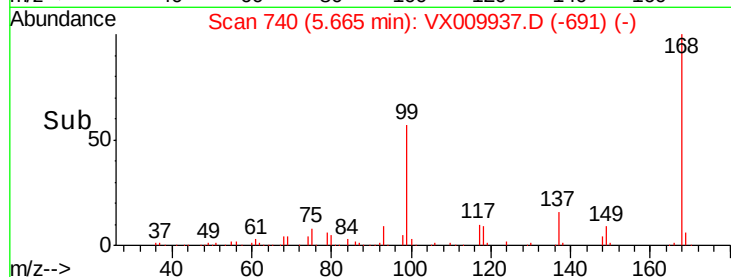
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.240 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009937.D

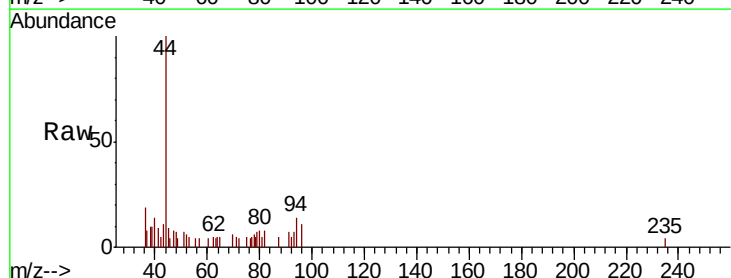
Acq: 29 May 2019 14:06

Tgt Ion: 94 Resp: 383

Ion Ratio Lower Upper

94 100

96 78.1 76.2 114.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

200

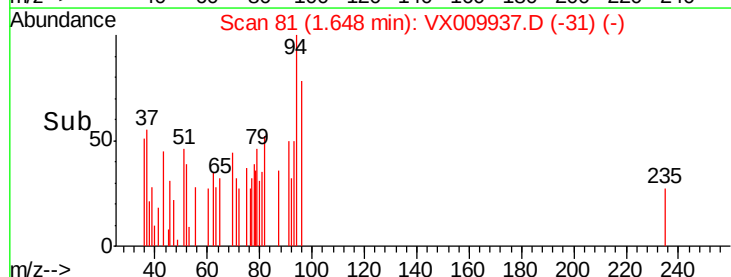
150

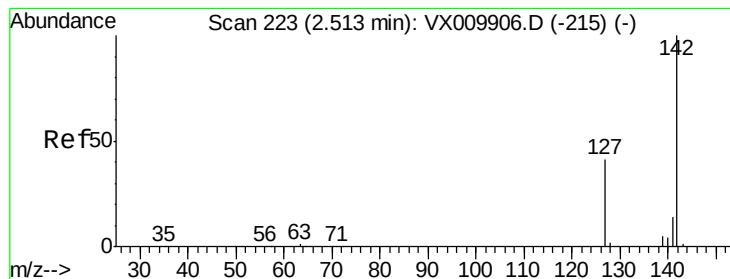
100

50

0

Time--> 1.60 1.65 1.70

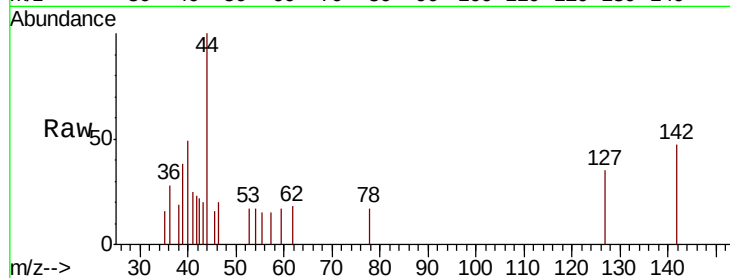




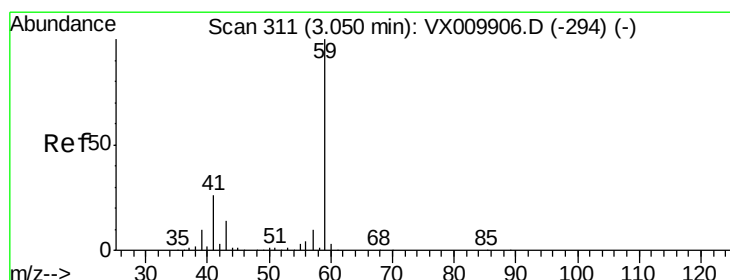
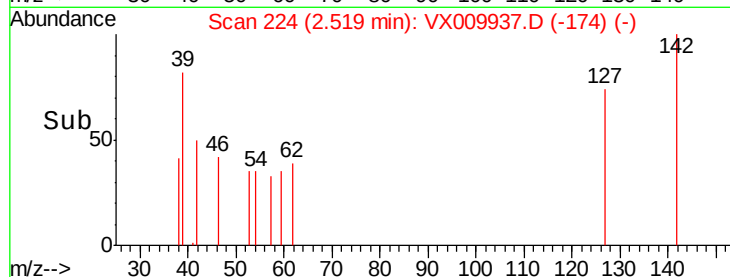
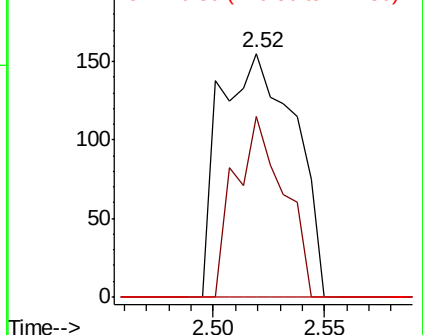
#10  
Methyl Iodide  
Concen: 4.808 ug/l  
RT: 2.52 min Scan# 224  
Delta R.T. 0.01 min  
Lab File: VX009937.D  
Acq: 29 May 2019 14:06

Instrument :  
MSVOA\_X  
ClientSampleId :  
FEQC-TB-052819

Tot Ion:142 Resp: 363  
Ion Ratio Lower Upper  
142 100  
127 47.9 33.0 49.4  
141 0.0 11.4 17.0#

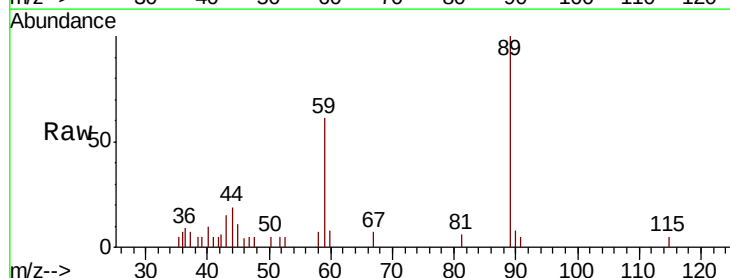


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

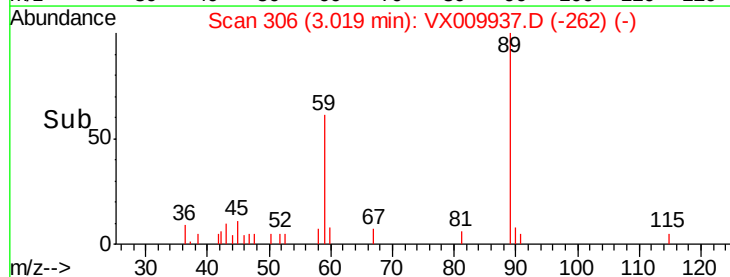
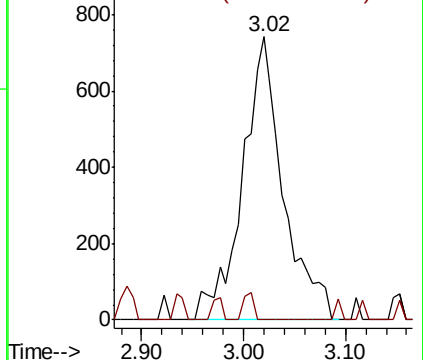


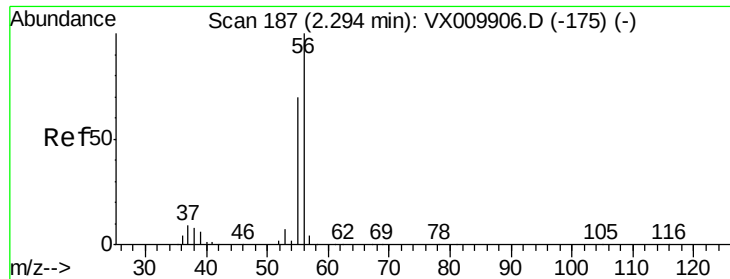
#11  
Tert butyl alcohol  
Concen: 3.348 ug/l  
RT: 3.02 min Scan# 306  
Delta R.T. -0.03 min  
Lab File: VX009937.D  
Acq: 29 May 2019 14:06

Tgt Ion: 59 Resp: 2070  
Ion Ratio Lower Upper  
59 100  
57 2.4 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0  
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 21.519 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX009937.D

Acq: 29 May 2019 14:06

Instrument :

MSVOA\_X

ClientSampleId :

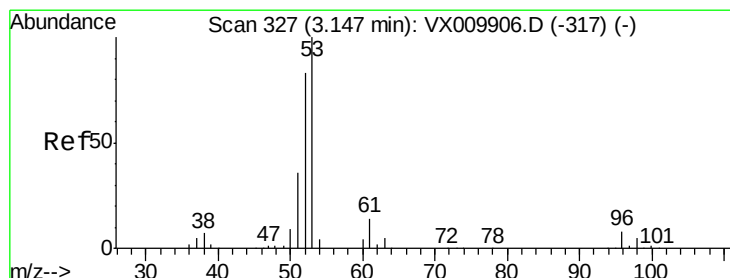
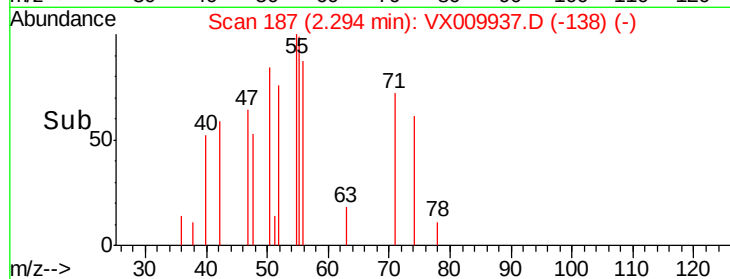
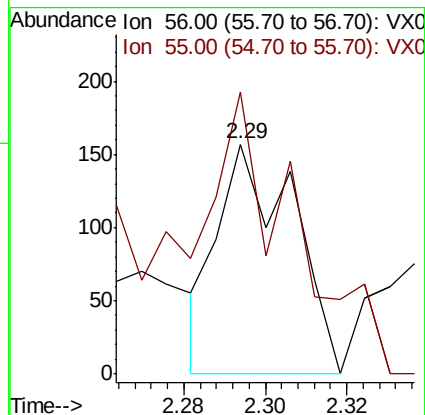
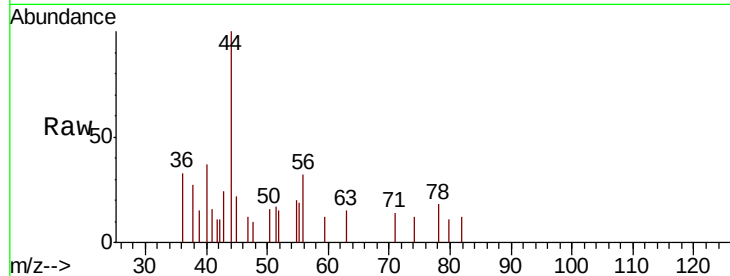
FEQC-TB-052819

Tot Ion: 56 Resp: 202

Ion Ratio Lower Upper

56 100

55 127.7 57.0 85.4#



#15

Acrylonitrile

Concen: 0.301 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.01 min

Lab File: VX009937.D

Acq: 29 May 2019 14:06

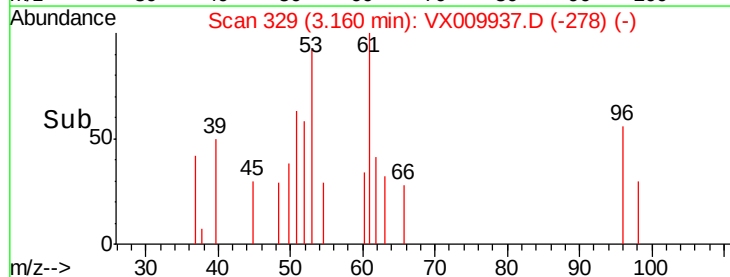
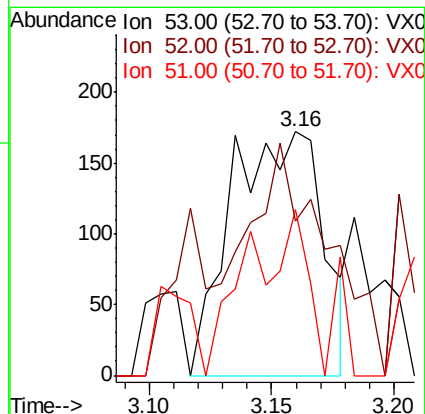
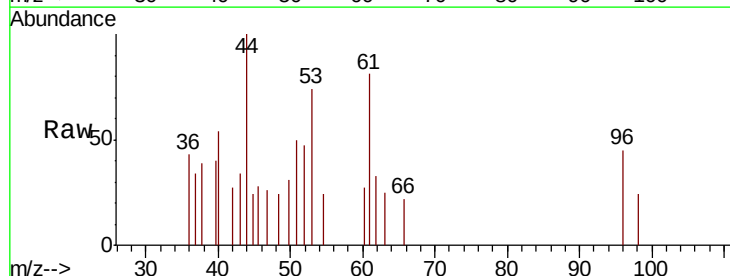
Tgt Ion: 53 Resp: 449

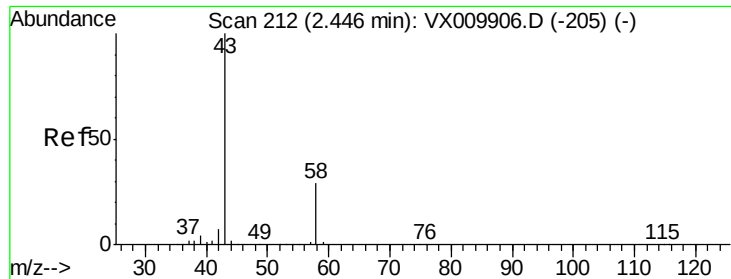
Ion Ratio Lower Upper

53 100

52 81.3 66.7 100.1

51 22.7 28.8 43.2#





#16

Acetone

Concen: 0.541 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009937.D

Acq: 29 May 2019 14:06

Instrument :

MSVOA\_X

ClientSampleId :

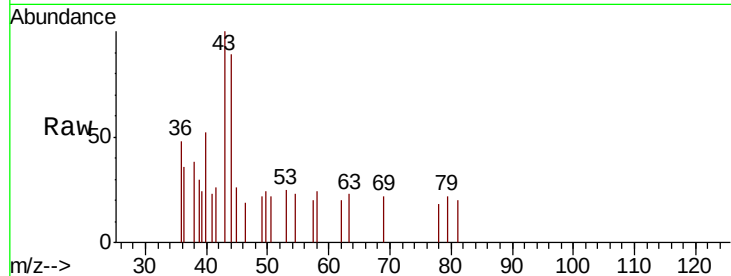
FEQC-TB-052819

Tot Ion: 43 Resp: 786

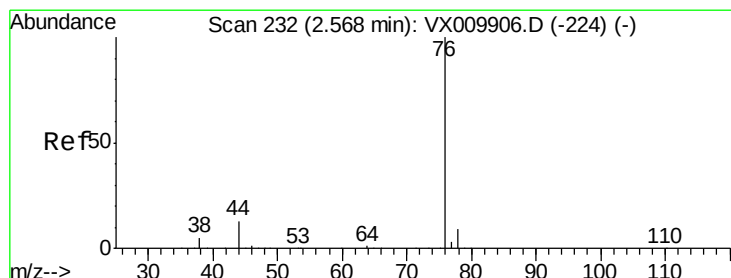
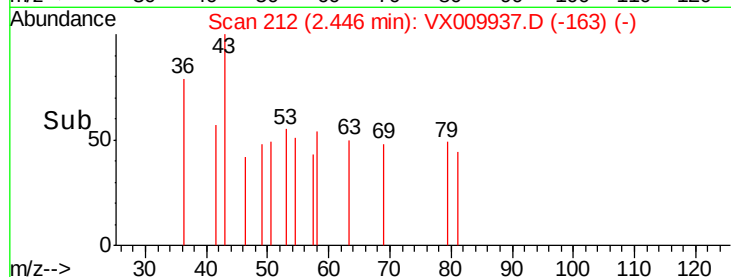
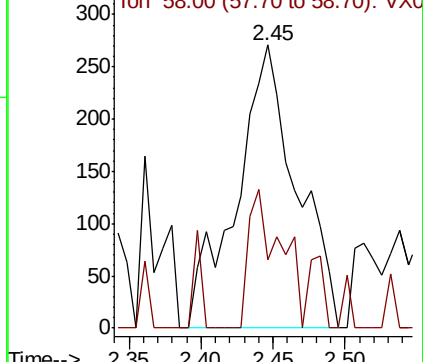
Ion Ratio Lower Upper

43 100

58 24.4 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VX0



#17

Carbon Disulfide

Concen: 0.625 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX009937.D

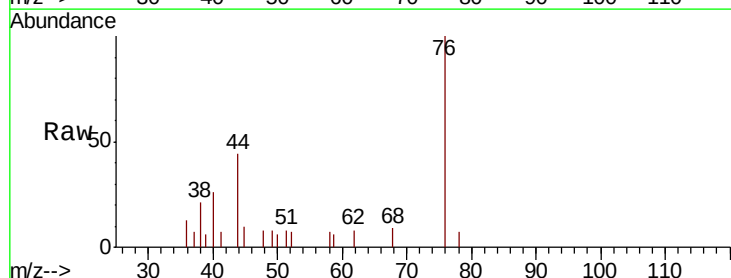
Acq: 29 May 2019 14:06

Tgt Ion: 76 Resp: 1323

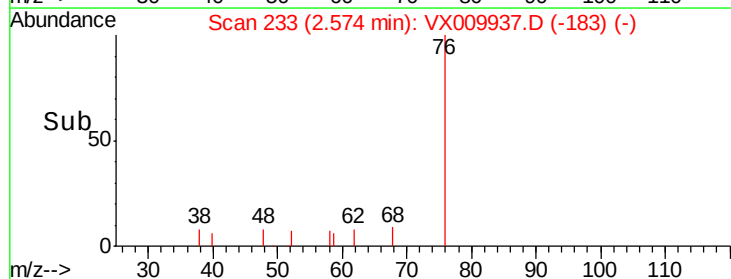
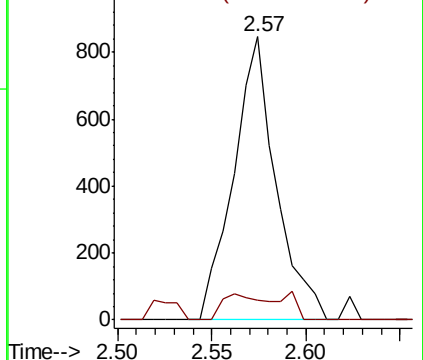
Ion Ratio Lower Upper

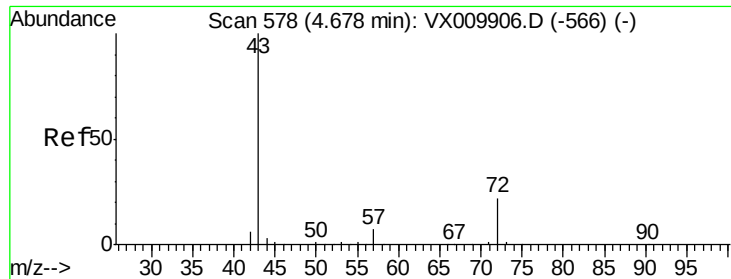
76 100

78 7.2 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VX0





#25

2-Butanone

Concen: 0.214 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.01 min

Lab File: VX009937.D

Acq: 29 May 2019 14:06

Instrument :

MSVOA\_X

ClientSampleId :

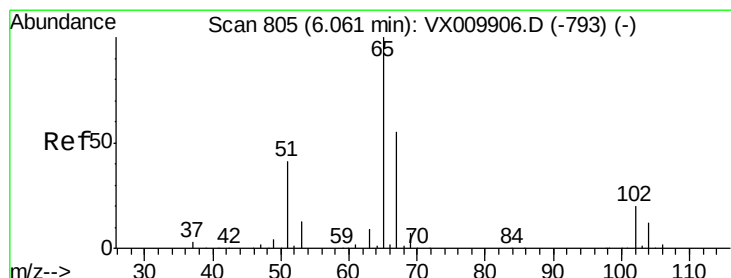
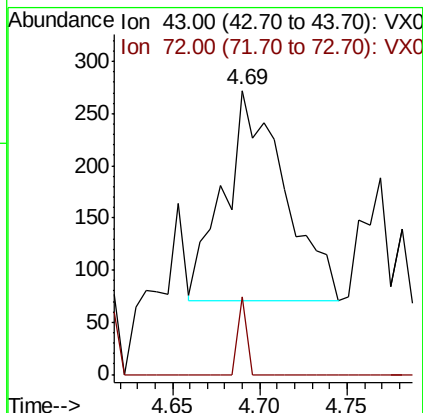
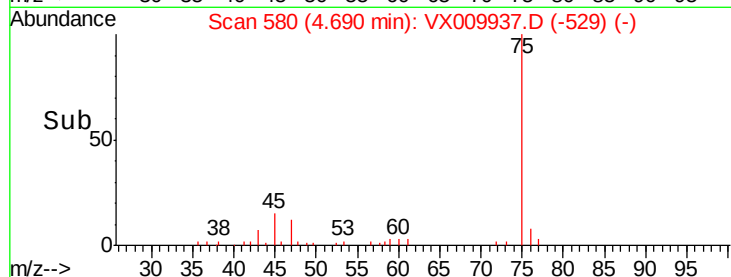
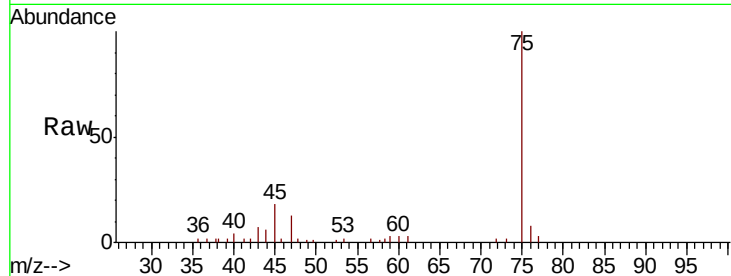
FEQC-TB-052819

Tot Ion: 43 Resp: 484

Ion Ratio Lower Upper

43 100

72 36.8 17.5 26.3#



#33

1,2-Dichloroethane-d4

Concen: 48.050 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009937.D

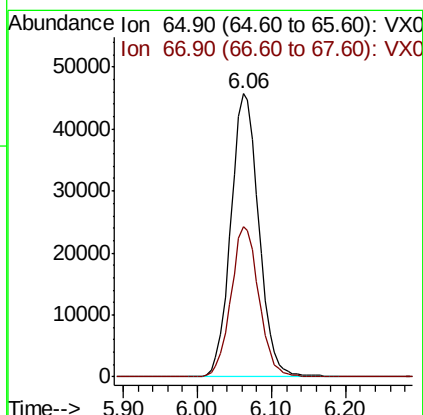
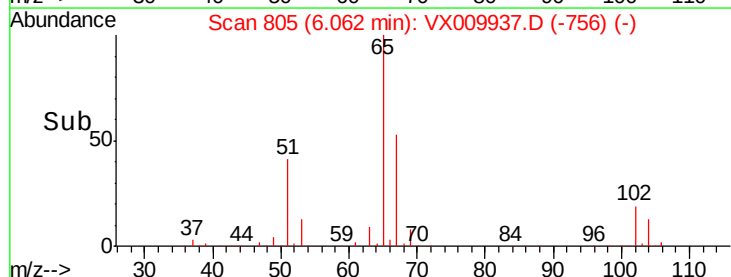
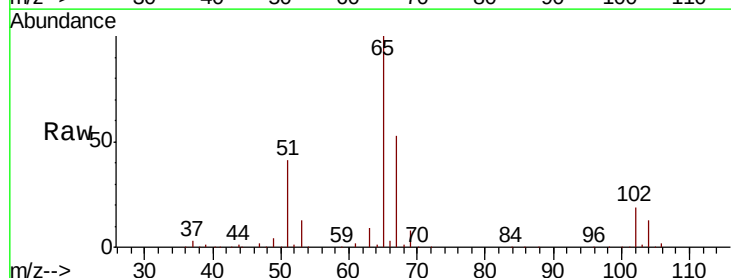
Acq: 29 May 2019 14:06

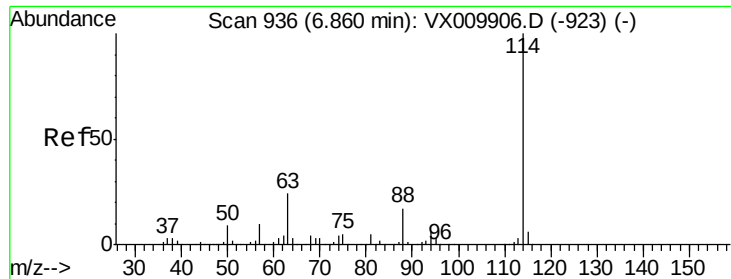
Tgt Ion: 65 Resp: 120724

Ion Ratio Lower Upper

65 100

67 52.9 0.0 108.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX009937.D

Acq: 29 May 2019 14:06

Instrument :

MSVOA\_X

ClientSampleId :

FEQC-TB-052819

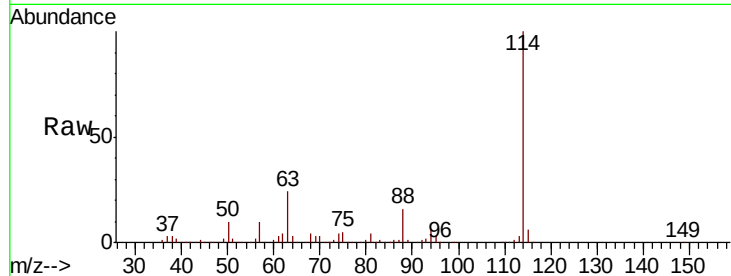
Tot Ion:114 Resp: 285184

Ion Ratio Lower Upper

114 100

63 23.9 0.0 47.4

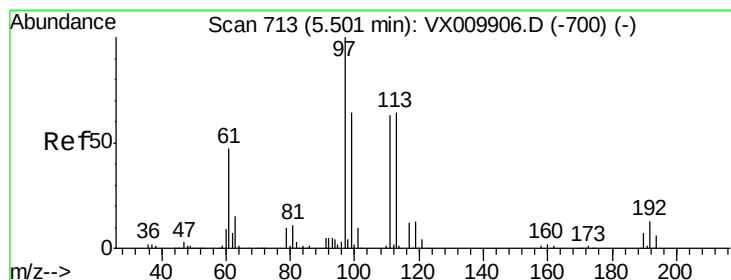
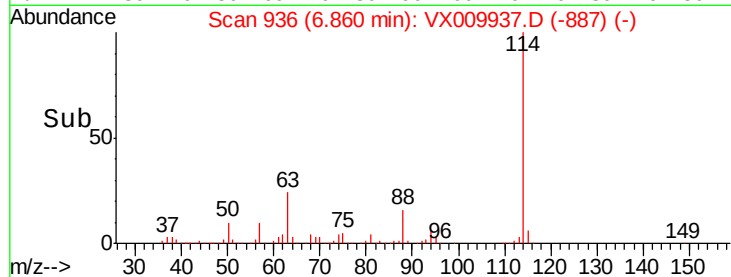
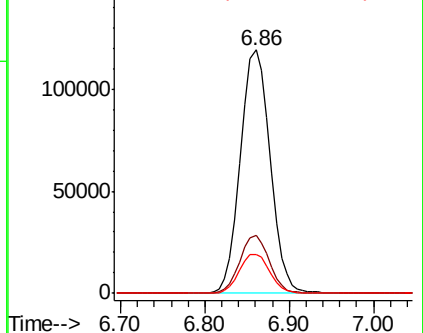
88 16.2 0.0 33.0



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: 49.234 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX009937.D

Acq: 29 May 2019 14:06

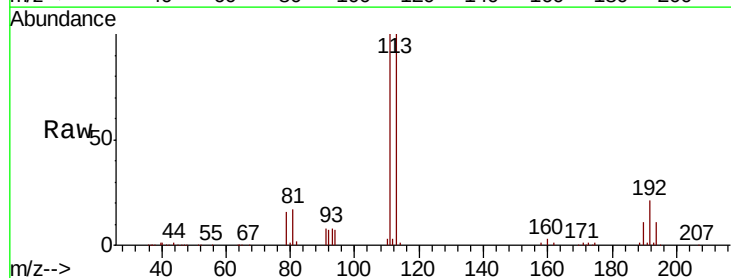
Tgt Ion:113 Resp: 88274

Ion Ratio Lower Upper

113 100

111 102.4 82.2 123.2

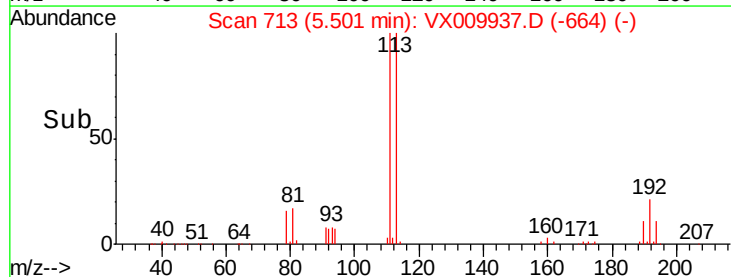
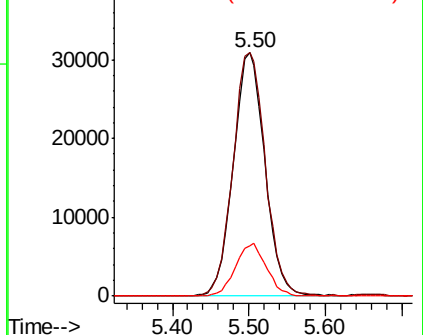
192 21.3 17.1 25.7



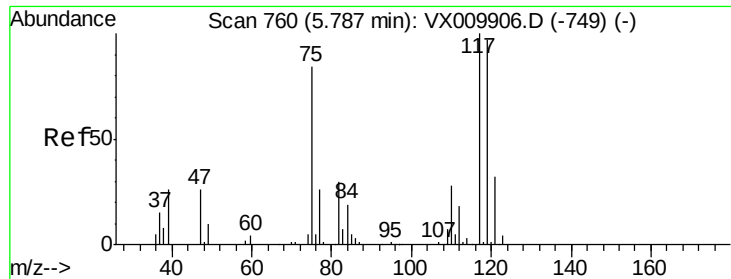
Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V







#38

Carbon Tetrachloride

Concen: 6.827 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX009937.D

Acq: 29 May 2019 14:06

Instrument :

MSVOA\_X

ClientSampleId :

FEQC-TB-052819

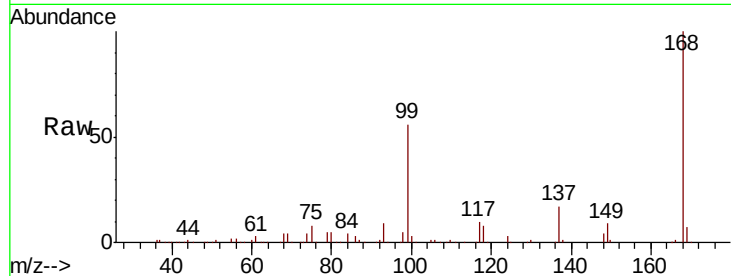
Tot Ion:117 Resp: 17070

Ion Ratio Lower Upper

117 100

119 4.6 77.3 115.9#

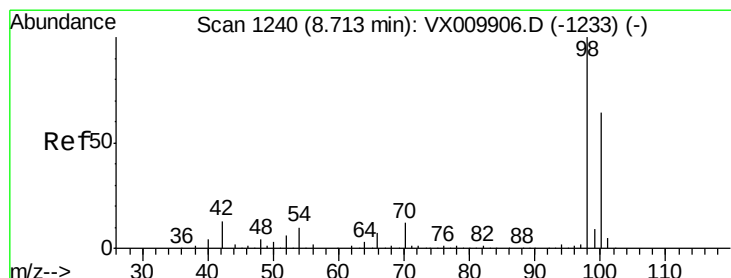
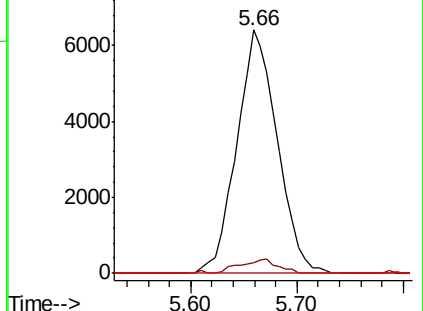
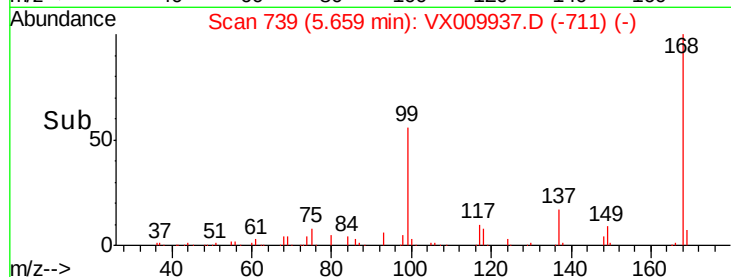
121 0.0 25.4 38.0#



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



#50

Toluene-d8

Concen: 50.544 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009937.D

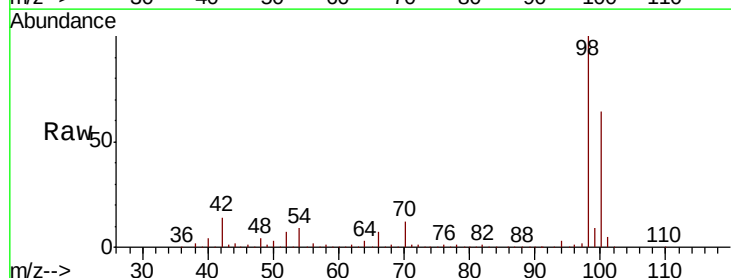
Acq: 29 May 2019 14:06

Tgt Ion: 98 Resp: 368004

Ion Ratio Lower Upper

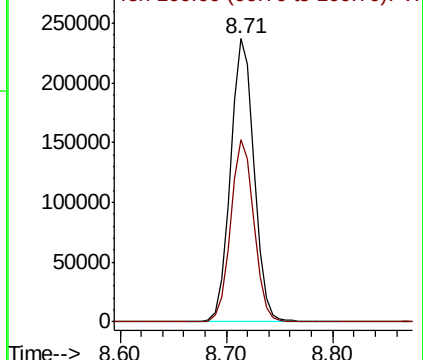
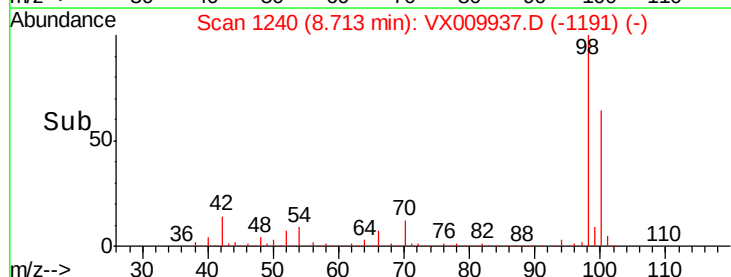
98 100

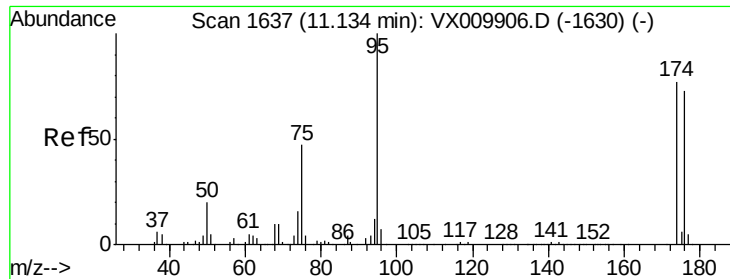
100 63.7 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 47.244 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009937.D

Acq: 29 May 2019 14:06

Instrument :

MSVOA\_X

ClientSampleId :

FEQC-TB-052819

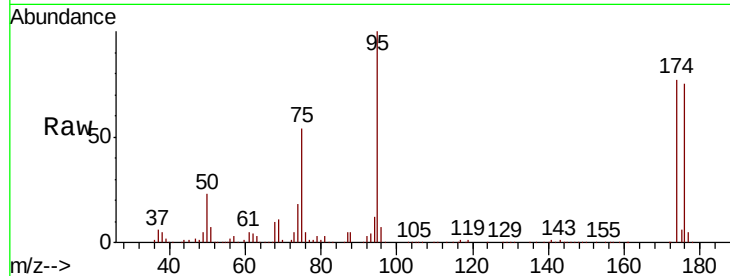
Tot Ion: 95 Resp: 123549

Ion Ratio Lower Upper

95 100

174 82.0 0.0 160.4

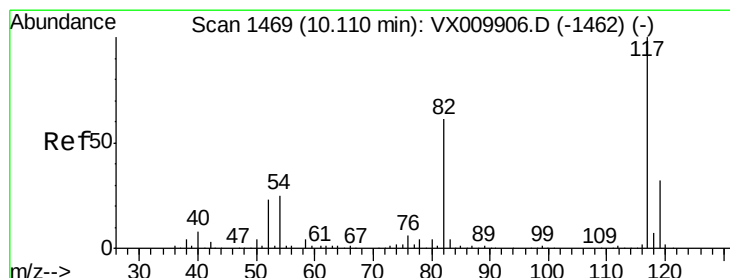
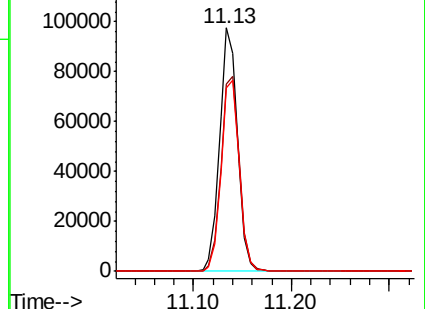
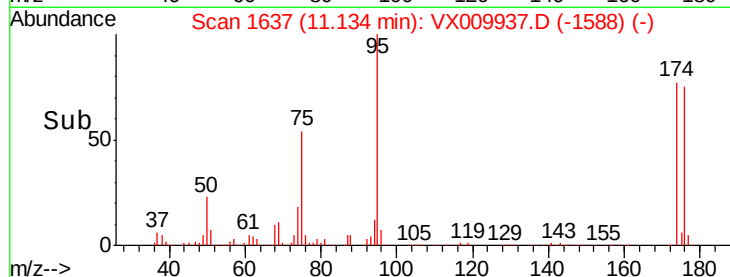
176 79.5 0.0 154.6



Abundance Ion 94.90 (94.60 to 95.60): VX009937.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009937.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009937.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009937.D

Acq: 29 May 2019 14:06

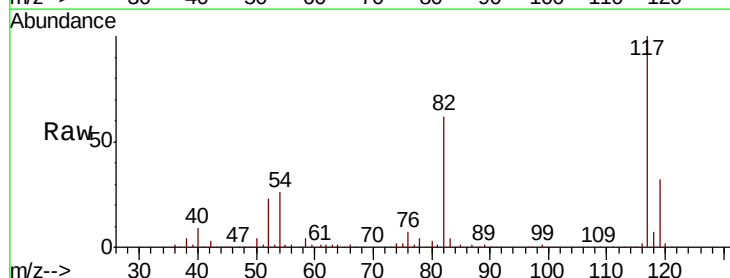
Tgt Ion: 117 Resp: 259184

Ion Ratio Lower Upper

117 100

82 62.2 49.2 73.8

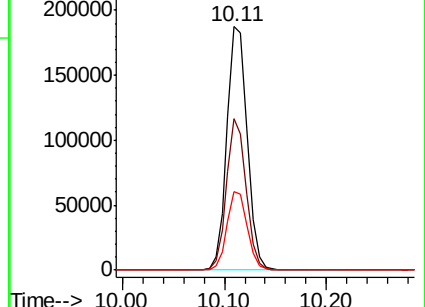
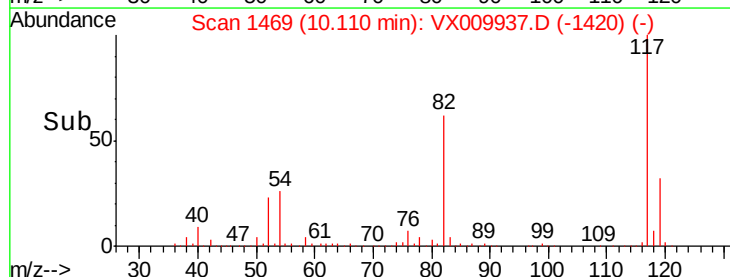
119 32.1 25.2 37.8

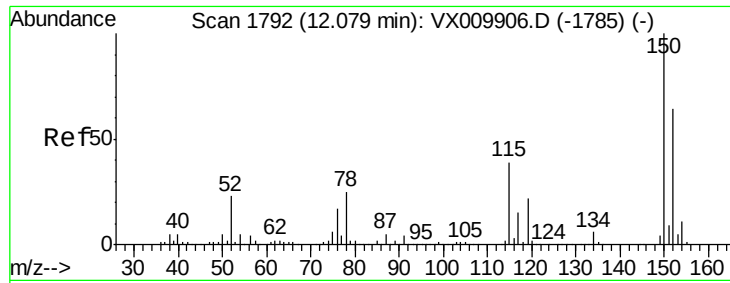


Abundance Ion 116.90 (116.60 to 117.60): VX009937.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009937.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009937.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009937.D

Acq: 29 May 2019 14:06

Instrument :

MSVOA\_X

ClientSampleId :

FEQC-TB-052819

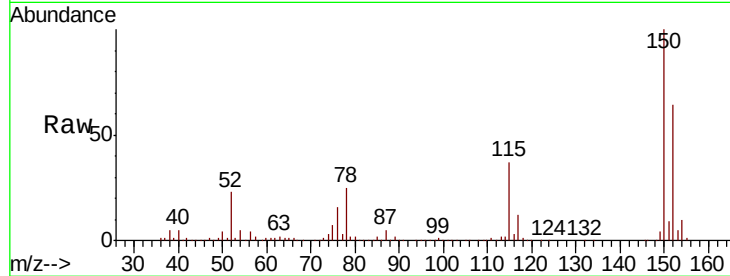
Tot Ion:152 Resp: 113713

Ion Ratio Lower Upper

152 100

115 58.9 41.4 124.2

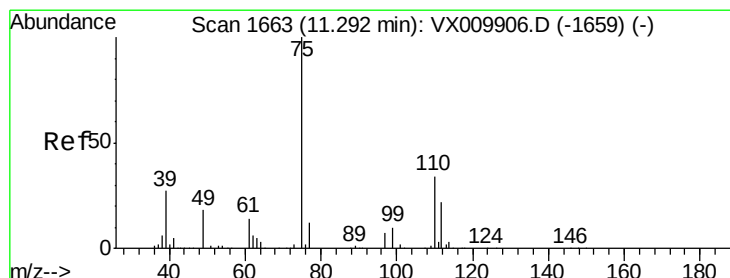
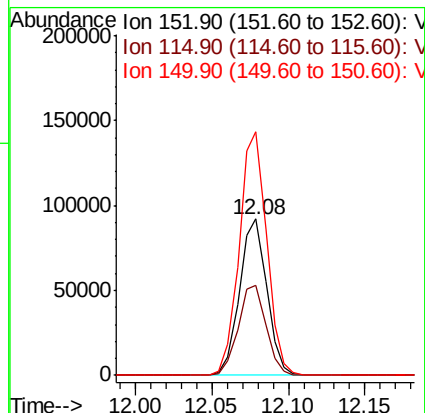
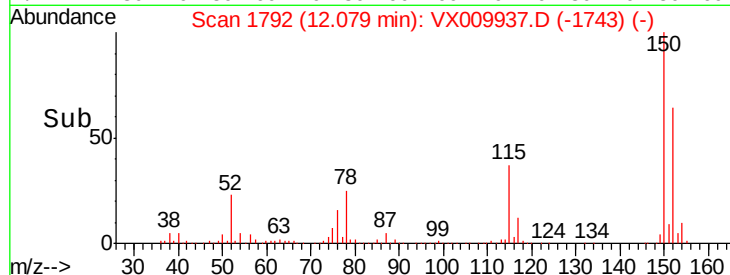
150 156.3 0.0 345.2



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: 23.632 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009937.D

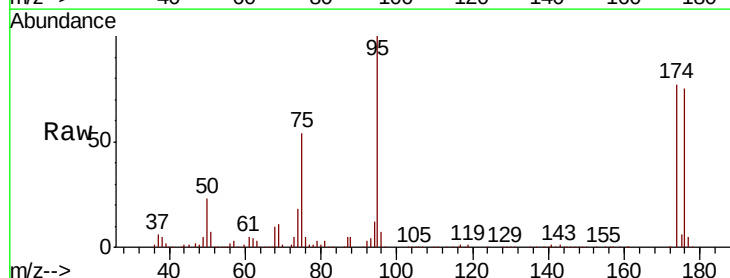
Acq: 29 May 2019 14:06

Tgt Ion: 75 Resp: 64261

Ion Ratio Lower Upper

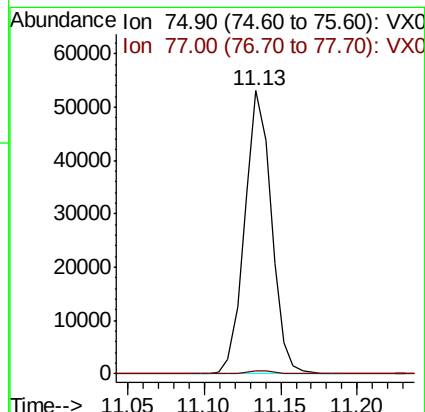
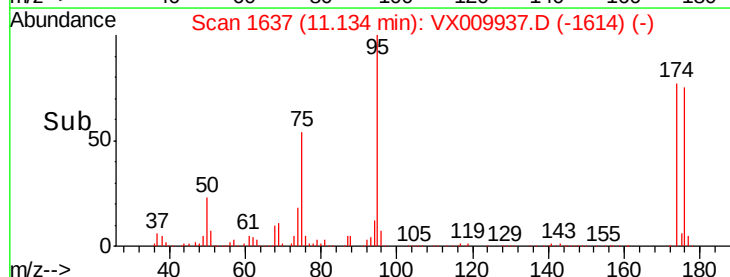
75 100

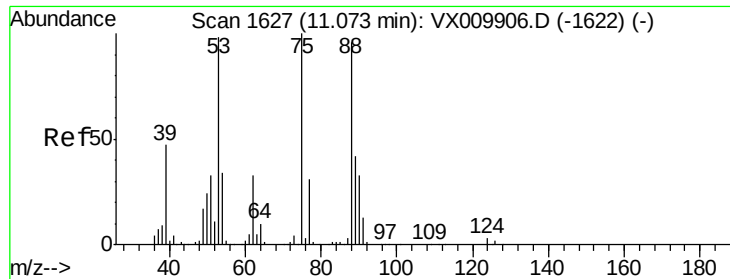
77 1.3 22.1 66.1#



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: 58.470 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009937.D

Acq: 29 May 2019 14:06

Instrument :

MSVOA\_X

ClientSampleId :

FEQC-TB-052819

Tot Ion: 75 Resp: 64261

Ion Ratio Lower Upper

75 100

53 0.1 79.8 119.6#

89 0.0 34.2 51.4#

