

Data File : VU032138.D  
Acq On : 18 May 2019 07:30  
Operator : JC/SP  
Sample : K2860-13  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
F9W40

Quant Time: May 20 05:00:23 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR051619WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Mon May 20 04:57:10 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 354224   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 364133   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 144271   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 105316   | 3.53     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 70.60% |
| 7) Chloroethane-d5             | 1.68   | 69    | 95930    | 3.76     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 75.20% |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 153614   | 3.23     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 64.60% |
| 20) 2-Butanone-d5              | 4.20   | 46    | 238599   | 40.73    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 81.46% |
| 24) Chloroform-d               | 4.64   | 84    | 218165   | 4.16     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 83.20% |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 111024   | 4.10     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 82.00% |
| 32) Benzene-d6                 | 5.33   | 84    | 437553   | 3.94     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 78.80% |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 125885   | 3.88     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 77.60% |
| 41) Toluene-d8                 | 7.56   | 98    | 364669   | 3.73     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 74.60% |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 39966    | 3.42     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 68.40% |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 204057   | 38.66    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 77.32% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 111977   | 4.22     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 84.40% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 138876   | 4.54     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 90.80% |

#### Target Compounds

|                               |       |     |        |              | Qvalue |
|-------------------------------|-------|-----|--------|--------------|--------|
| 3) Chloromethane              | 1.32  | 50  | 2915   | 0.171 ug/L   | 94     |
| 8) Chloroethane               | 1.68  | 64  | 897    | 0.081 ug/L # | 53     |
| 12) 1,1-Dichloroethene        | 2.27  | 96  | 2201   | 0.155 ug/L # | 1      |
| 13) Acetone                   | 2.34  | 43  | 38842  | 20.197 ug/L  | 100    |
| 15) Methyl Acetate            | 2.34  | 43  | 32621  | 5.916 ug/L # | 42     |
| 17) Methyl tert-butyl Ether   | 3.00  | 73  | 4999   | 0.149 ug/L # | 80     |
| 18) trans-1,2-Dichloroethene  | 2.97  | 96  | 9092   | 0.597 ug/L   | 86     |
| 21) 2-Butanone                | 4.30  | 43  | 2557   | 0.926 ug/L   | 90     |
| 22) cis-1,2-Dichloroethene    | 4.22  | 96  | 41261  | 2.755 ug/L   | 93     |
| 27) 1,2-Dichloroethane        | 5.33  | 62  | 2430   | 0.163 ug/L # | 73     |
| 34) Trichloroethene           | 6.18  | 95  | 299171 | 19.726 ug/L  | 94     |
| 35) Methylcyclohexane         | 6.33  | 83  | 32161  | 1.473 ug/L # | 19     |
| 37) 1,2-Dichloropropane       | 6.33  | 63  | 14697  | 1.075 ug/L # | 87     |
| 44) trans-1,3-Dichloropropene | 7.85  | 75  | 1823   | 0.124 ug/L   | 87     |
| 47) Tetrachloroethene         | 8.22  | 164 | 80927  | 7.138 ug/L   | 94     |
| 49) Dibromochloromethane      | 8.22  | 129 | 74039  | 6.362 ug/L # | 10     |
| 59) 1,2,3-Trichloropropane    | 11.48 | 75  | 14492  | 1.669 ug/L   | 91     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU051719\  
Quantitation Report (Not Reviewed)

Data File : VU032138.D  
Acq On : 18 May 2019 07:30  
Operator : JC/SP  
Sample : K2860-13  
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MSVOA\_U  
ClientSampleId :  
F9W40

Quant Time: May 20 05:00:23 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR051619WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Mon May 20 04:57:10 2019  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

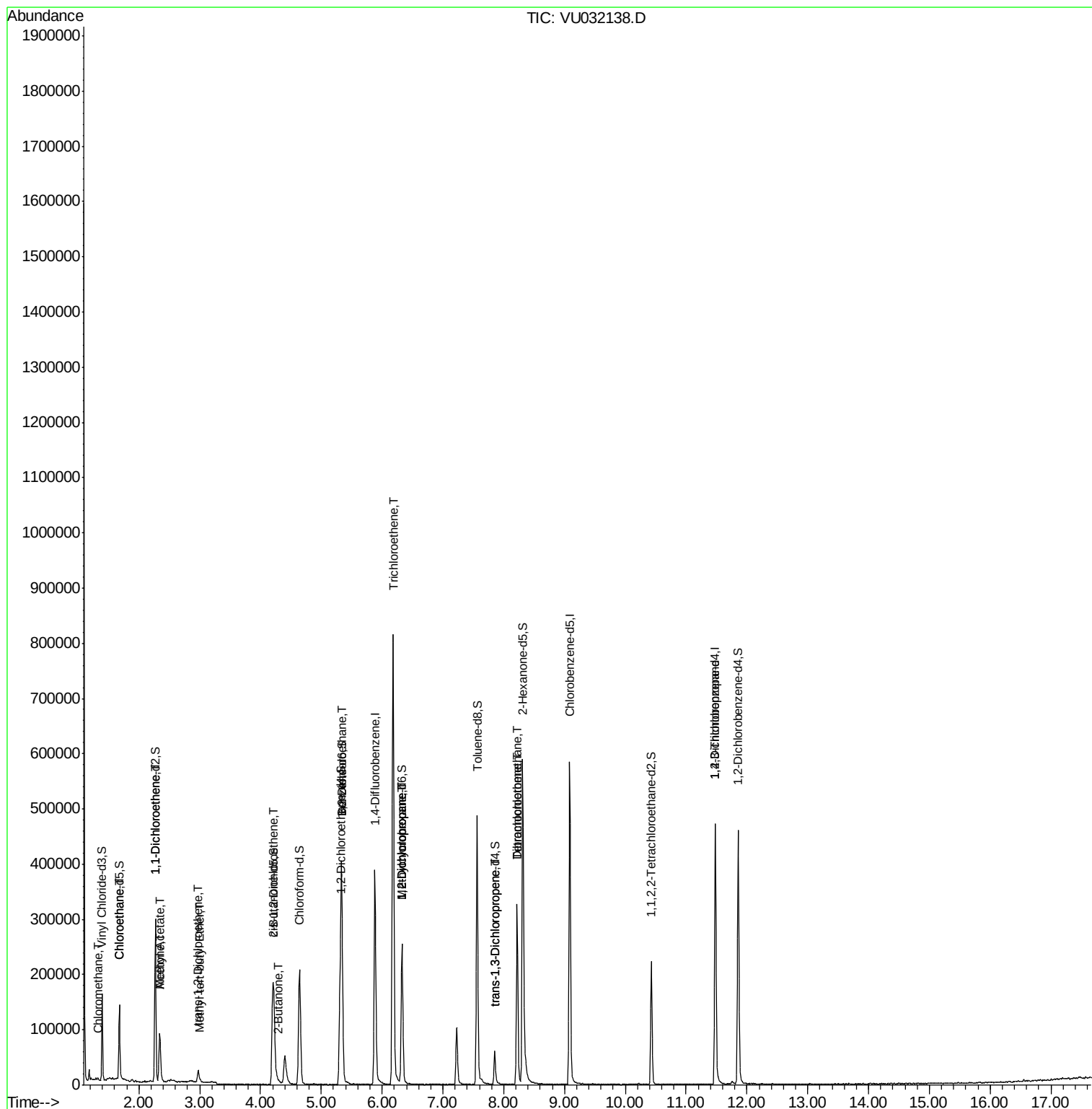
|       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|
| ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- |

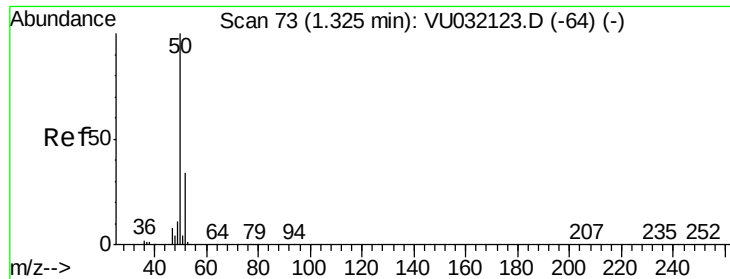
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : TRACE VOA SOM01.0  
QLast Update : Mon May 20 04:57:10 2019  
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.171 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU032138.D

Acq: 18 May 2019 07:30

Instrument :

MSVOA\_U

ClientSampleId :

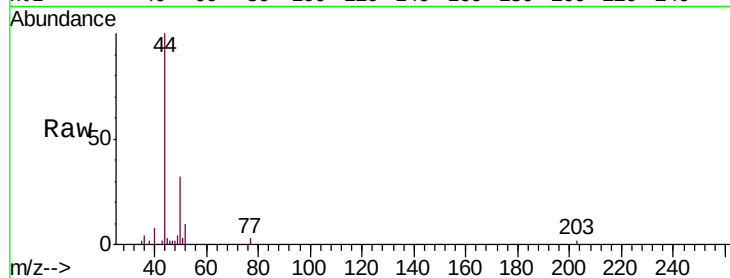
F9W40

Tgt Ion: 50 Resp: 2915

Ion Ratio Lower Upper

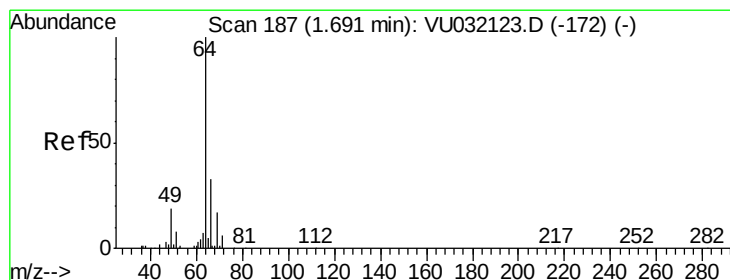
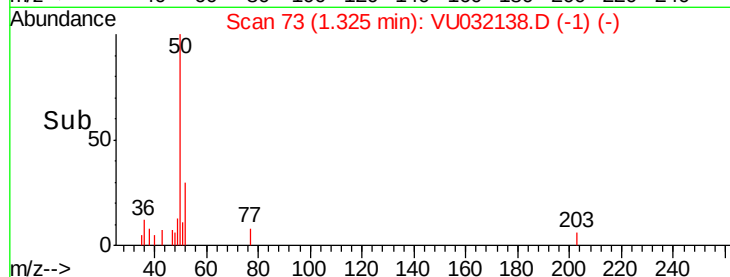
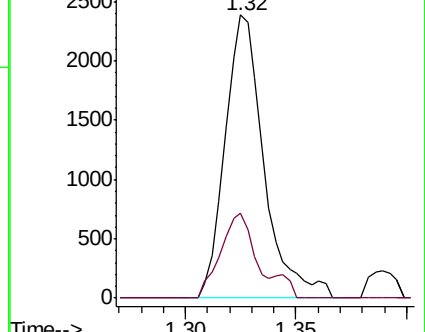
50 100

52 30.0 23.2 43.0



Abundance Ion 50.05 (49.75 to 50.75): VU032123.D (-64) (-)

Ion 52.05 (51.75 to 52.75): VU032123.D (-64) (-)



#8

Chloroethane

Concen: 0.081 ug/L

RT: 1.68 min Scan# 184

Delta R.T. -0.01 min

Lab File: VU032138.D

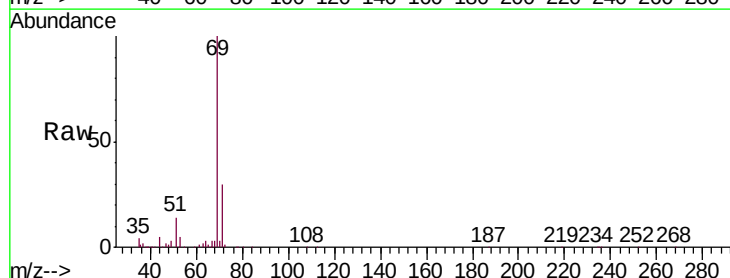
Acq: 18 May 2019 07:30

Tgt Ion: 64 Resp: 897

Ion Ratio Lower Upper

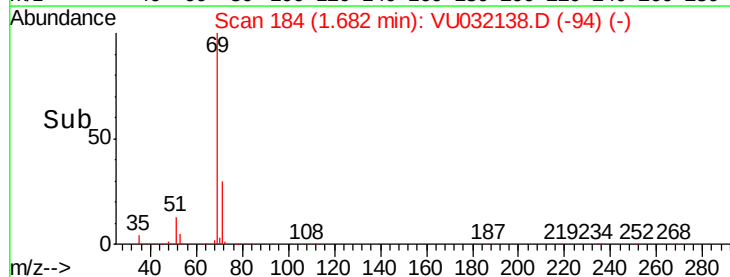
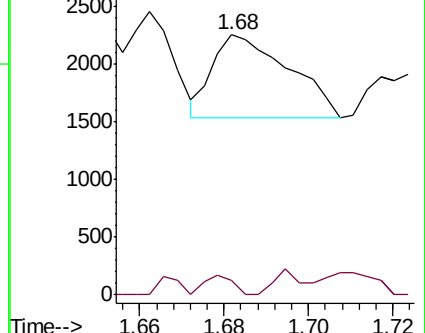
64 100

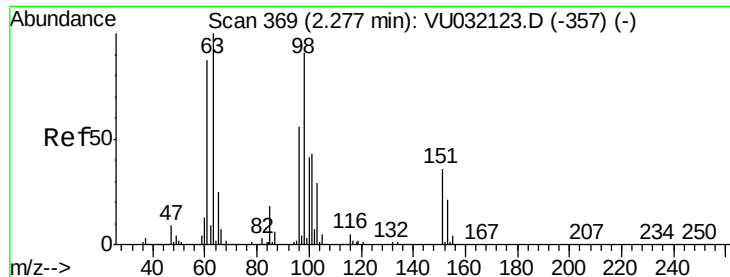
66 5.4 22.0 41.0#



Abundance Ion 64.10 (63.80 to 64.80): VU032123.D (-172) (-)

Ion 66.05 (65.75 to 66.75): VU032123.D (-172) (-)

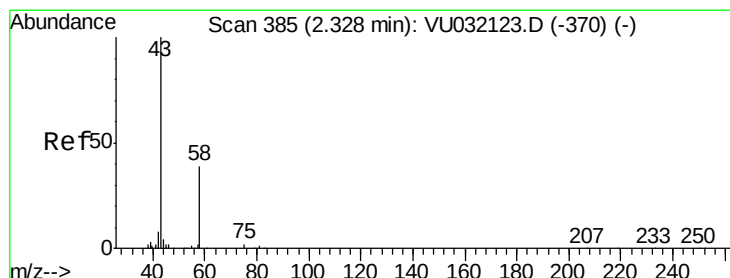
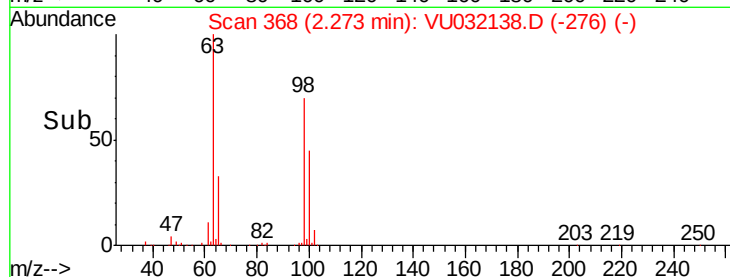
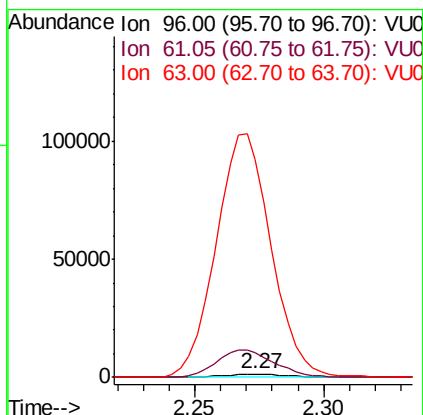
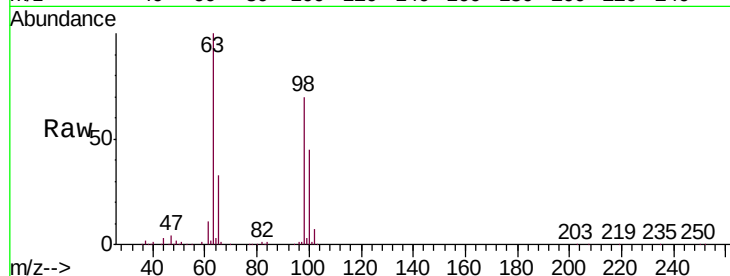




#12  
 1,1-Dichloroethene  
 Concen: 0.155 ug/L  
 RT: 2.27 min Scan# 368  
 Delta R.T. -0.00 min  
 Lab File: VU032138.D  
 Acq: 18 May 2019 07:30

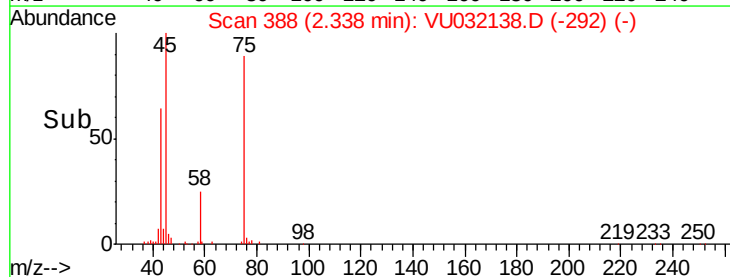
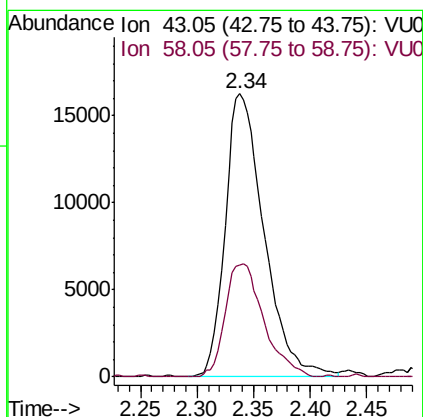
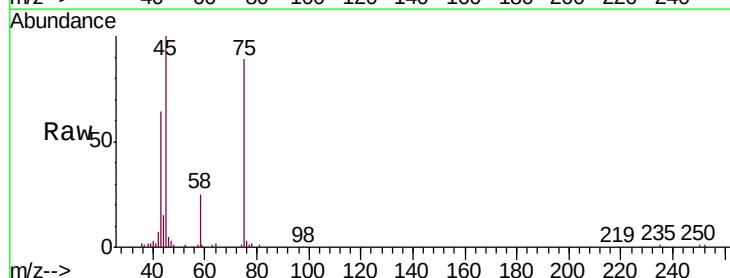
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 F9W40

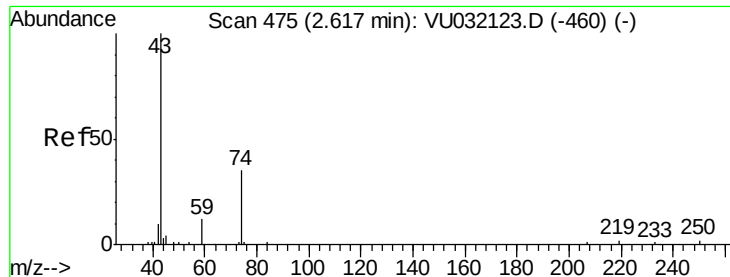
Tgt Ion: 96 Resp: 2201  
 Ion Ratio Lower Upper  
 96 100  
 61 781.1 111.7 207.5#  
 63 6827.5 152.2 282.6#



#13  
 Acetone  
 Concen: 20.197 ug/L  
 RT: 2.34 min Scan# 388  
 Delta R.T. 0.01 min  
 Lab File: VU032138.D  
 Acq: 18 May 2019 07:30

Tgt Ion: 43 Resp: 38842  
 Ion Ratio Lower Upper  
 43 100  
 58 39.7 0.0 78.8

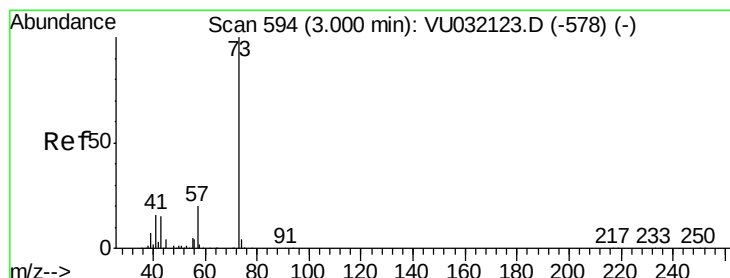
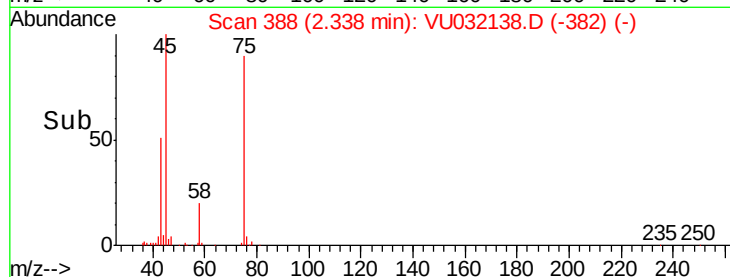
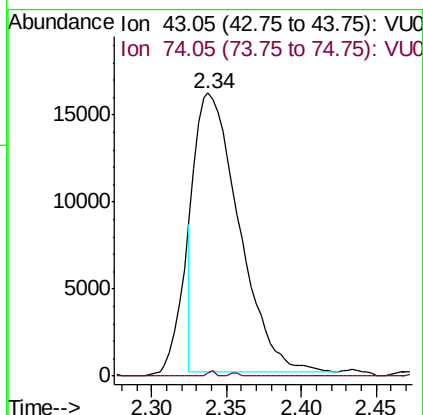
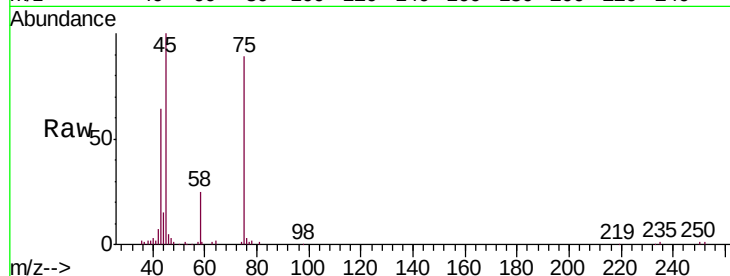




#15  
Methyl Acetate  
Concen: 5.916 ug/L  
RT: 2.34 min Scan# 388  
Delta R.T. -0.28 min  
Lab File: VU032138.D  
Acq: 18 May 2019 07:30

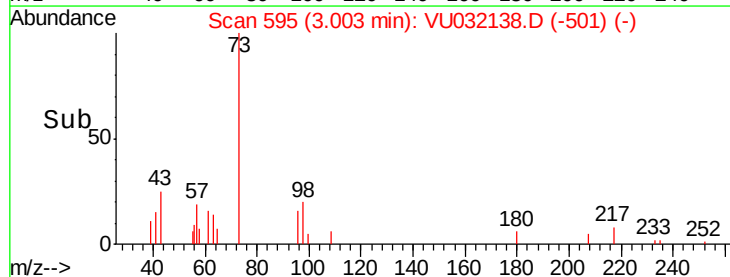
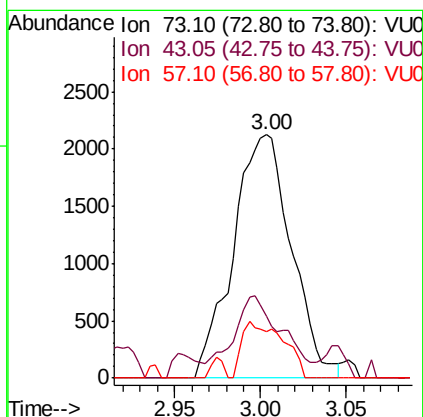
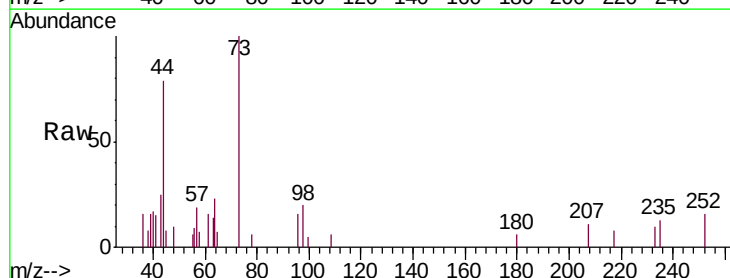
Instrument :  
MSVOA\_U  
ClientSampleId :  
F9W40

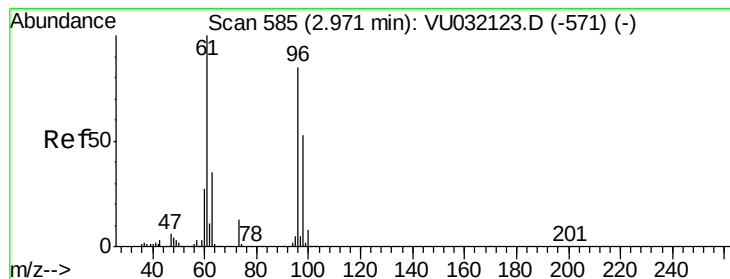
Tgt Ion: 43 Resp: 32621  
Ion Ratio Lower Upper  
43 100  
74 0.3 26.4 39.6#



#17  
Methyl tert-butyl Ether  
Concen: 0.149 ug/L  
RT: 3.00 min Scan# 595  
Delta R.T. 0.00 min  
Lab File: VU032138.D  
Acq: 18 May 2019 07:30

Tgt Ion: 73 Resp: 4999  
Ion Ratio Lower Upper  
73 100  
43 29.2 13.0 19.6#  
57 16.4 17.9 26.9#





#18

trans-1,2-Dichloroethene

Concen: 0.597 ug/L

RT: 2.97 min Scan# 584

Delta R.T. -0.00 min

Lab File: VU032138.D

Acq: 18 May 2019 07:30

Instrument :

MSVOA\_U

ClientSampleId :

F9W40

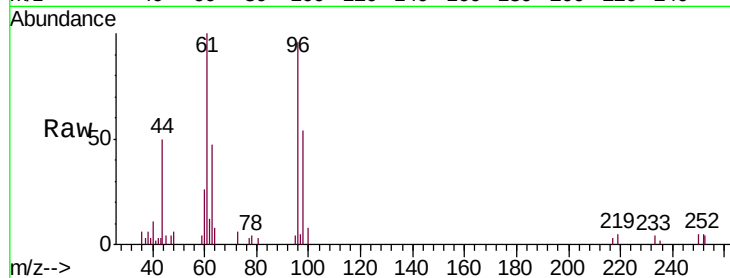
Tgt Ion: 96 Resp: 9092

Ion Ratio Lower Upper

96 100

61 104.5 86.5 160.7

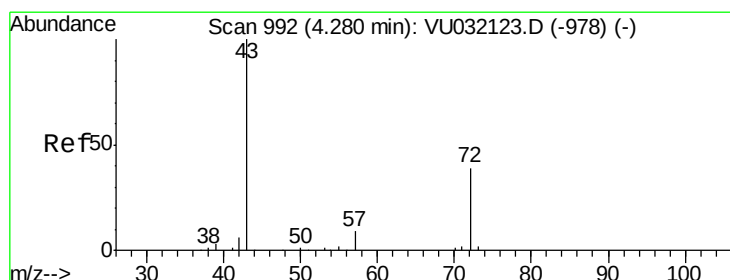
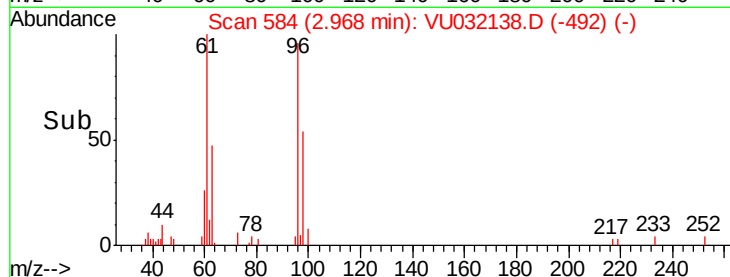
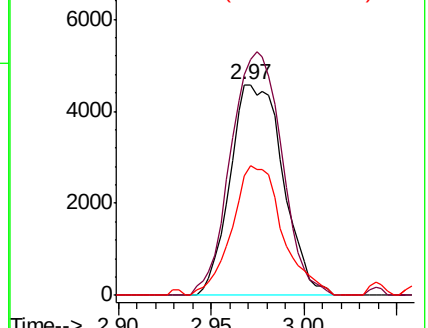
98 56.6 43.5 80.9



Abundance Ion 96.00 (95.70 to 96.70): VU032138.D (-492) (-)

Ion 61.05 (60.75 to 61.75): VU032138.D (-492) (-)

Ion 97.95 (97.65 to 98.65): VU032138.D (-492) (-)



#21

2-Butanone

Concen: 0.926 ug/L

RT: 4.30 min Scan# 998

Delta R.T. 0.02 min

Lab File: VU032138.D

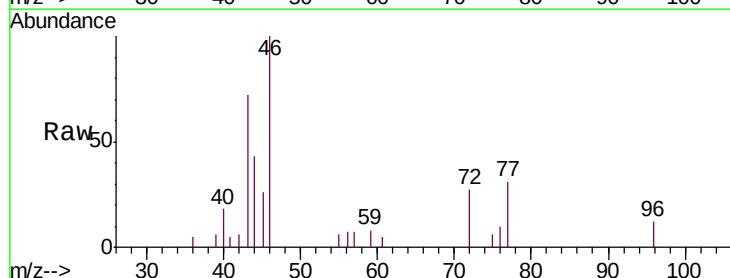
Acq: 18 May 2019 07:30

Tgt Ion: 43 Resp: 2557

Ion Ratio Lower Upper

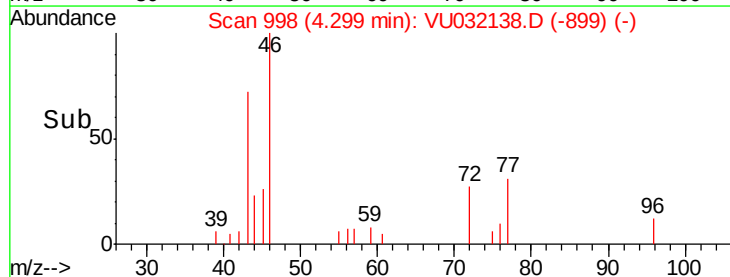
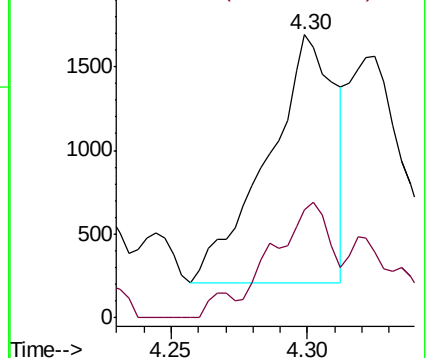
43 100

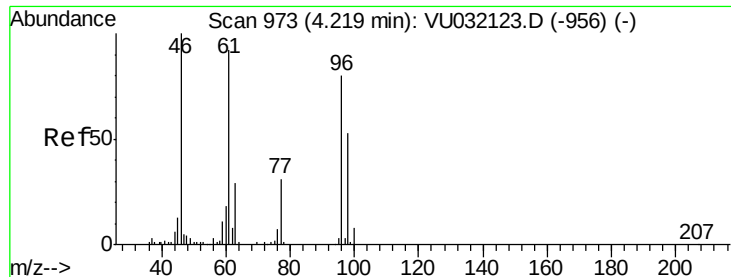
72 39.2 16.8 50.3



Abundance Ion 43.05 (42.75 to 43.75): VU032138.D (-899) (-)

Ion 72.10 (71.80 to 72.80): VU032138.D (-899) (-)





#22

cis-1,2-Dichloroethene

Concen: 2.755 ug/L

RT: 4.22 min Scan# 973

Delta R.T. -0.00 min

Lab File: VU032138.D

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F9W40

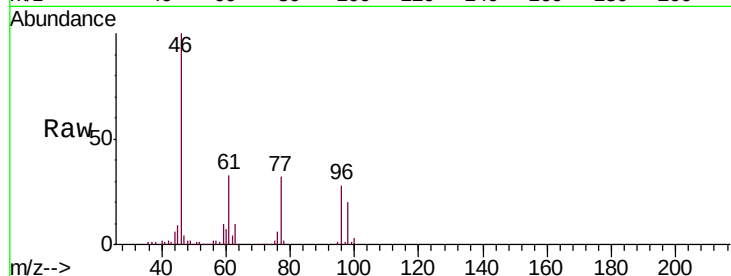
Tgt Ion: 96 Resp: 41261

Ion Ratio Lower Upper

96 100

61 114.6 85.8 159.4

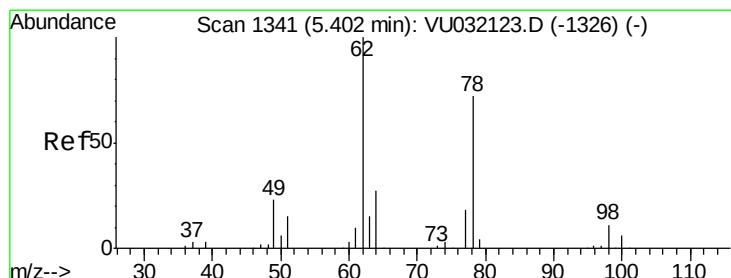
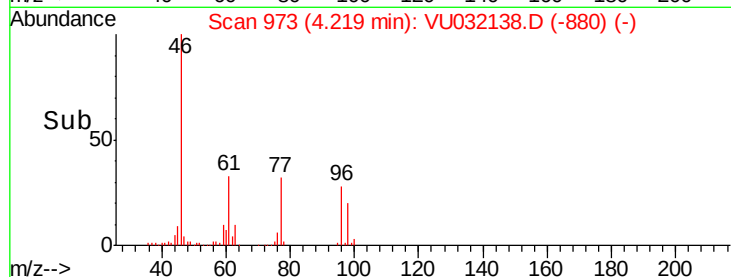
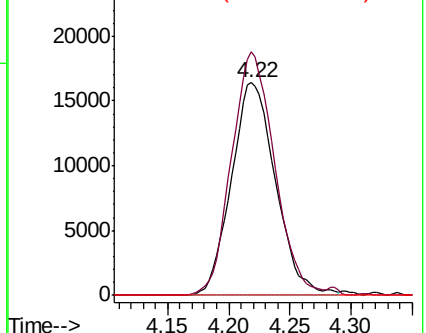
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU032138.D (-880) (-)

Ion 61.05 (60.75 to 61.75): VU032138.D (-880) (-)

Ion 68.15 (67.85 to 68.85): VU032138.D (-880) (-)



#27

1,2-Dichloroethane

Concen: 0.163 ug/L

RT: 5.33 min Scan# 1319

Delta R.T. -0.07 min

Lab File: VU032138.D

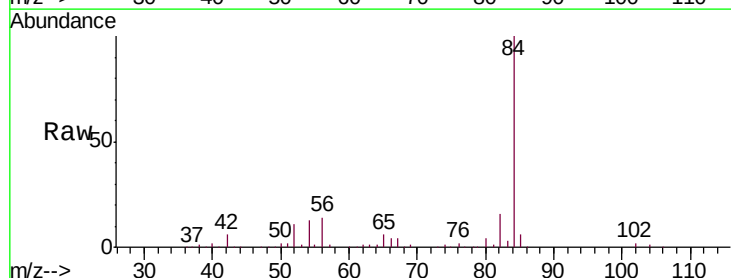
Acq: 18 May 2019 07:30

Tgt Ion: 62 Resp: 2430

Ion Ratio Lower Upper

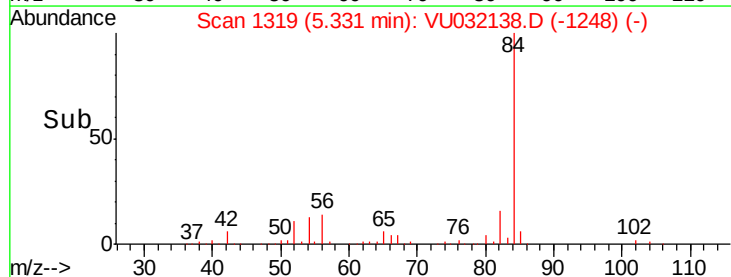
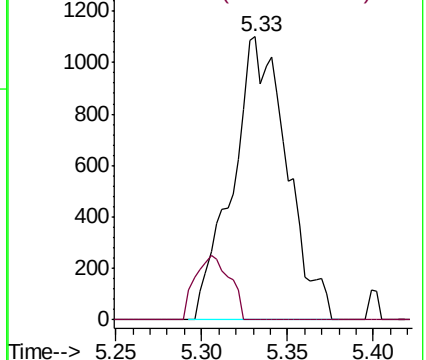
62 100

98 0.0 8.0 12.0#

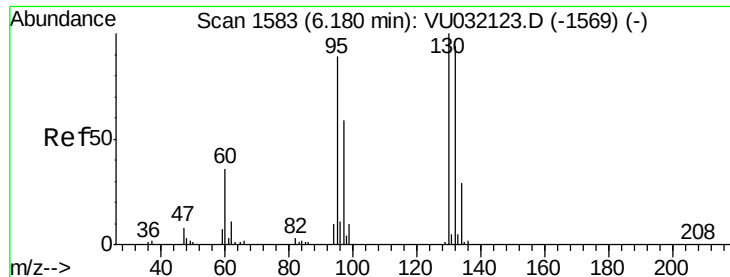


Abundance Ion 62.00 (61.70 to 62.70): VU032138.D (-1248) (-)

Ion 98.05 (97.75 to 98.75): VU032138.D (-1248) (-)







#34

Trichloroethene

Concen: 19.726 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU032138.D

Acq: 18 May 2019 07:30

Instrument :

MSVOA\_U

ClientSampleId :

F9W40

Tgt Ion: 95 Resp: 299171

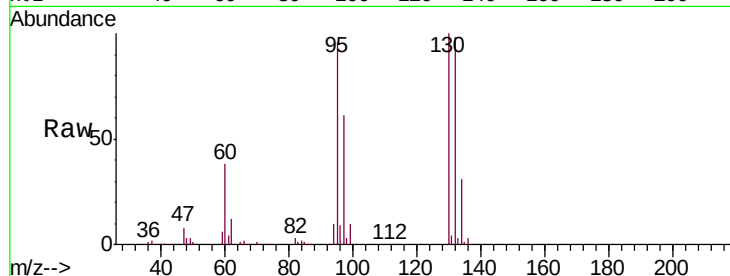
Ion Ratio Lower Upper

95 100

97 63.4 45.2 84.0

132 101.5 66.1 122.7

130 103.7 66.7 123.9



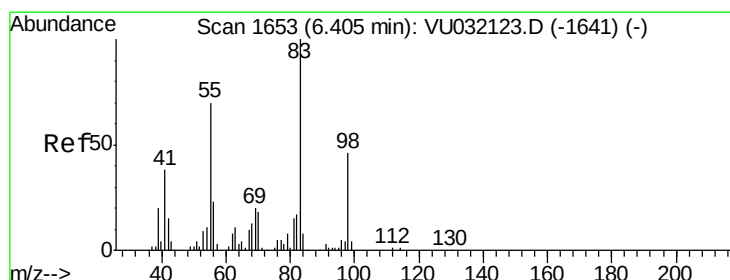
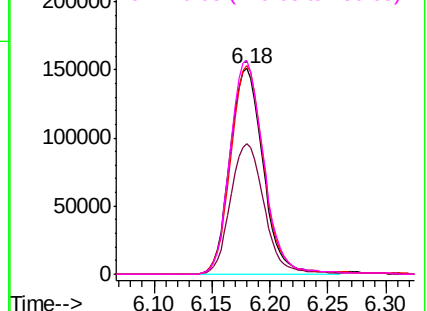
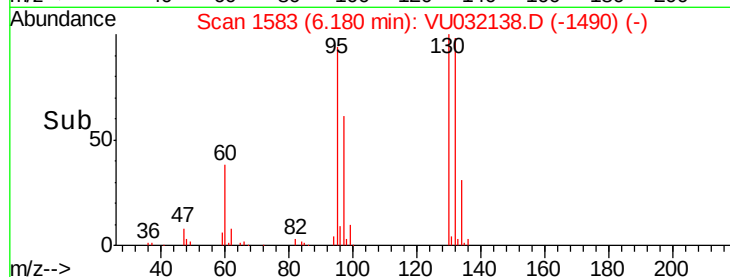
Abundance

Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 1.473 ug/L

RT: 6.33 min Scan# 1629

Delta R.T. -0.08 min

Lab File: VU032138.D

Acq: 18 May 2019 07:30

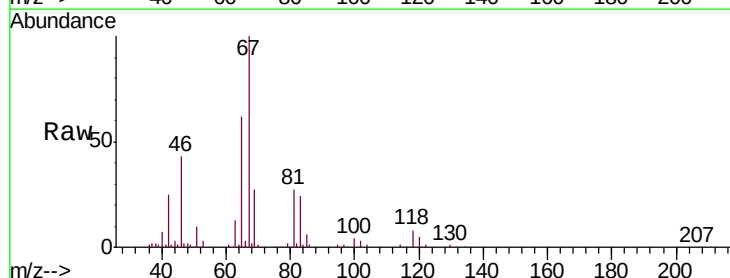
Tgt Ion: 83 Resp: 32161

Ion Ratio Lower Upper

83 100

55 0.0 59.7 89.5#

98 0.0 36.8 55.2#

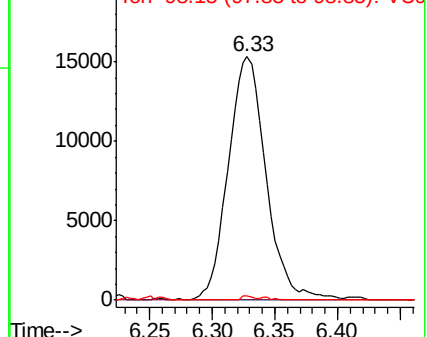
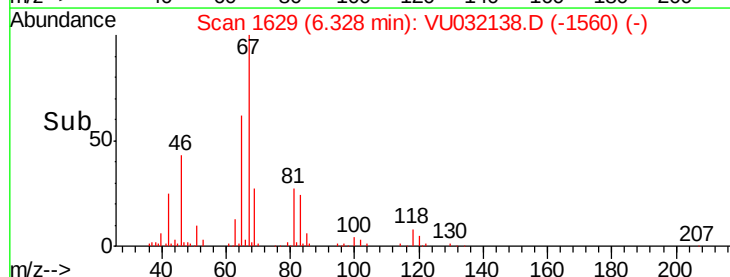


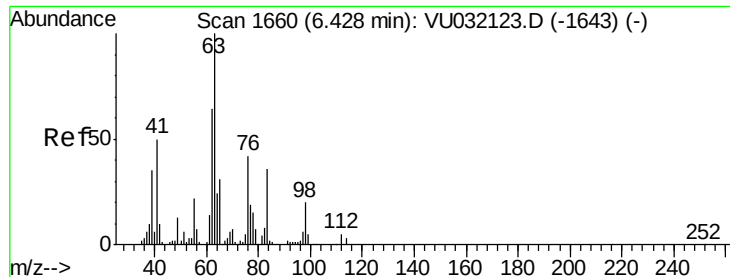
Abundance

Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

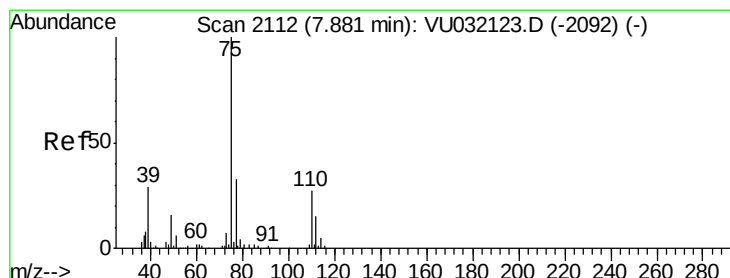
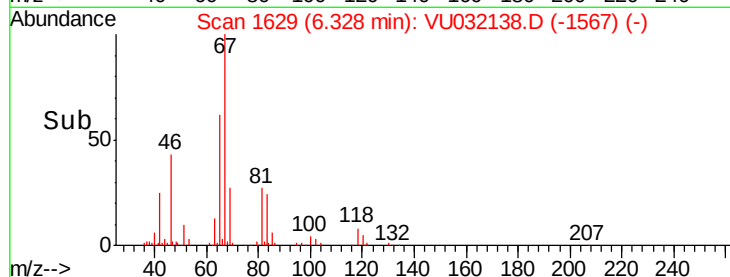
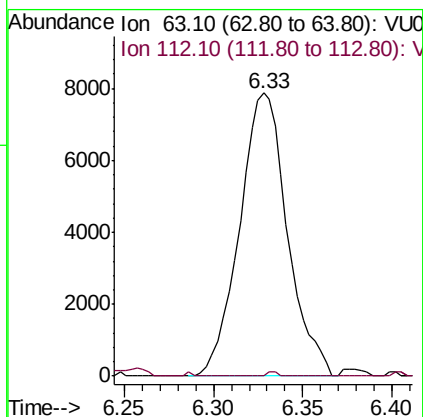
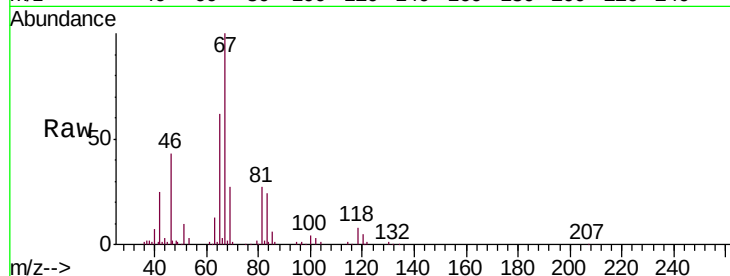




#37  
 1,2-Dichloropropane  
 Concen: 1.075 ug/L  
 RT: 6.33 min Scan# 1629  
 Delta R.T. -0.10 min  
 Lab File: VU032138.D  
 Acq: 18 May 2019 07:30

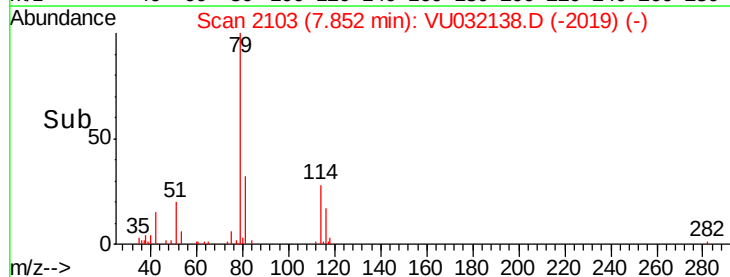
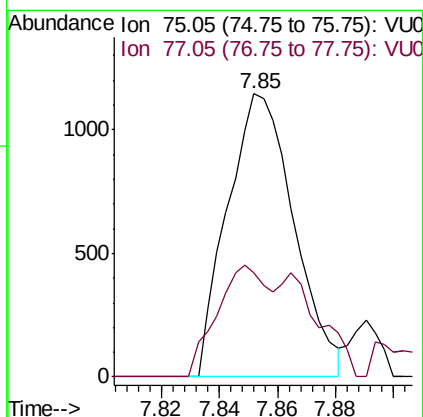
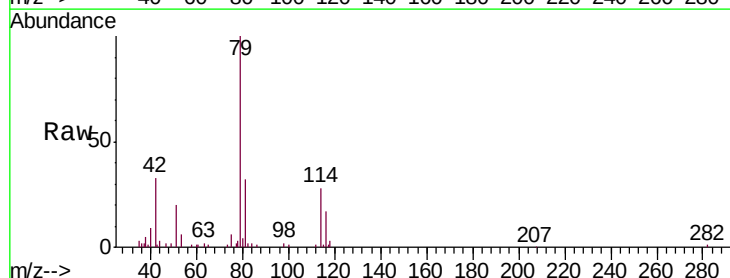
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 F9W40

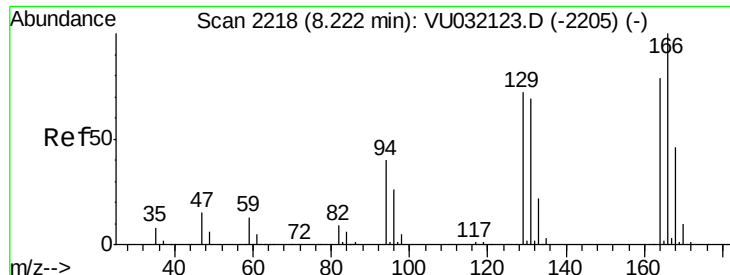
Tgt Ion: 63 Resp: 14697  
 Ion Ratio Lower Upper  
 63 100  
 112 0.3 3.8 5.6#



#44  
 trans-1,3-Dichloropropene  
 Concen: 0.124 ug/L  
 RT: 7.85 min Scan# 2103  
 Delta R.T. -0.03 min  
 Lab File: VU032138.D  
 Acq: 18 May 2019 07:30

Tgt Ion: 75 Resp: 1823  
 Ion Ratio Lower Upper  
 75 100  
 77 37.0 21.0 39.0

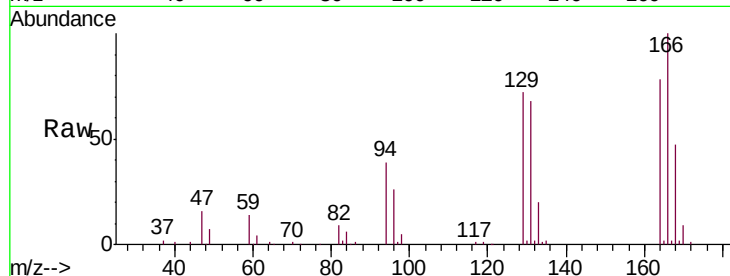




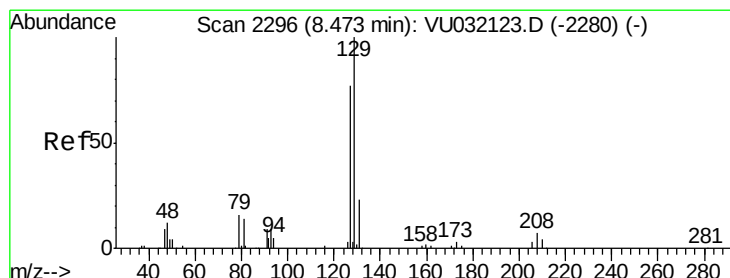
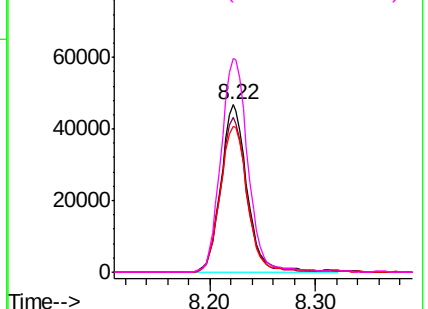
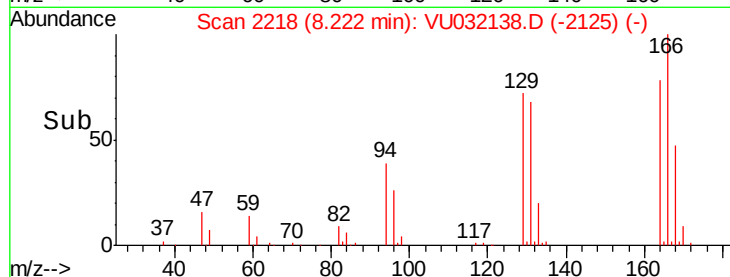
#47  
Tetrachloroethene  
Concen: 7.138 ug/L  
RT: 8.22 min Scan# 2218  
Delta R.T. -0.00 min  
Lab File: VU032138.D  
Acq: 18 May 2019 07:30

Instrument :  
MSVOA\_U  
ClientSampleId :  
F9W40

Tgt Ion:164 Resp: 80927  
Ion Ratio Lower Upper  
164 100  
129 92.1 70.3 130.5  
131 87.3 64.5 119.9  
166 127.5 92.3 171.5

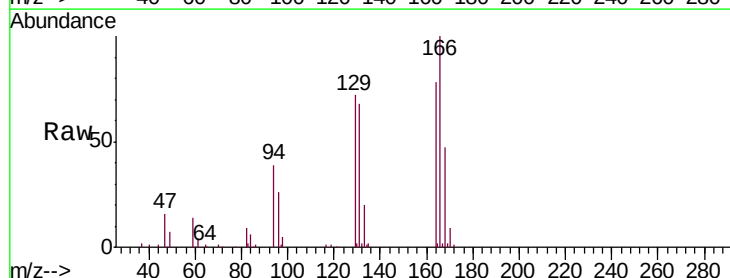


Abundance Ion 163.90 (163.60 to 164.60): V  
Ion 128.95 (128.65 to 129.65): V  
Ion 130.95 (130.65 to 131.65): V  
Ion 165.90 (165.60 to 166.60): V

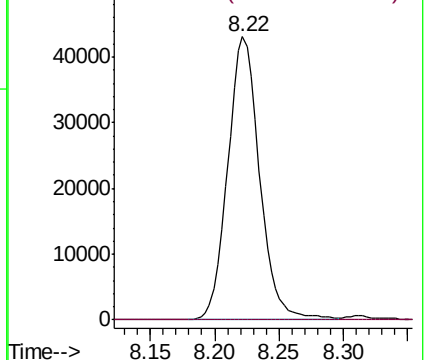
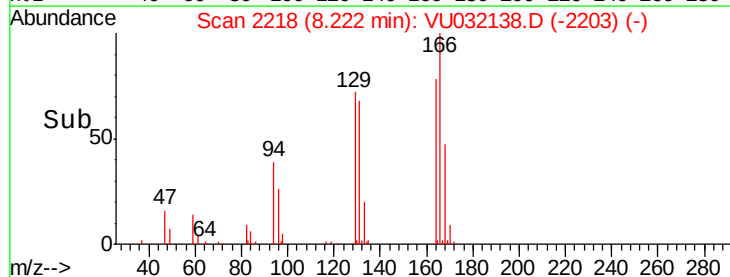


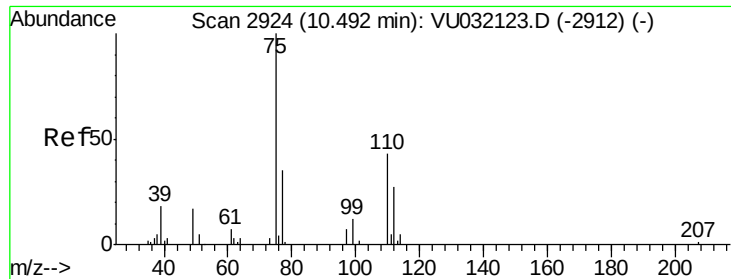
#49  
Dibromochloromethane  
Concen: 6.362 ug/L  
RT: 8.22 min Scan# 2218  
Delta R.T. -0.25 min  
Lab File: VU032138.D  
Acq: 18 May 2019 07:30

Tgt Ion:129 Resp: 74039  
Ion Ratio Lower Upper  
129 100  
127 0.0 55.2 102.6#



Abundance Ion 128.95 (128.65 to 129.65): V  
Ion 126.90 (126.60 to 127.60): V





#59

1,2,3-Trichloropropane

Concen: 1.669 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. 0.99 min

Lab File: VU032138.D

Acq: 18 May 2019 07:30

Instrument :

MSVOA\_U

ClientSampleId :

F9W40

Tgt Ion: 75 Resp: 14492

Ion Ratio Lower Upper

75 100

77 37.7 26.2 39.2

