

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU041919\  
 Data File : VU031311.D  
 Acq On : 18 Apr 2019 16:54  
 Operator : JC/SP  
 Sample : K2452-02DL 2X  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 YAMZ2DL

Quant Time: Apr 19 04:42:10 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR041919WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Apr 19 04:38:37 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 193592   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 193041   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 75560    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 99798    | 4.57     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 91.40%   |
| 7) Chloroethane-d5             | 1.68   | 69    | 85073    | 4.90     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 98.00%   |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 141527   | 3.31     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 66.20%   |
| 20) 2-Butanone-d5              | 4.20   | 46    | 210791   | 50.52    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 101.04%  |
| 24) Chloroform-d               | 4.64   | 84    | 139558   | 5.12     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 102.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 77379    | 5.25     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 105.00%  |
| 32) Benzene-d6                 | 5.33   | 84    | 268105   | 4.98     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 99.60%   |
| 36) 1,2-Dichloropropane-d6     | 6.32   | 67    | 87959    | 5.21     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 104.20%  |
| 41) Toluene-d8                 | 7.56   | 98    | 214151   | 4.45     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 89.00%   |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 32986    | 4.87     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 97.40%   |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 159712   | 51.01    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 102.02%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 88405    | 6.23     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 124.60%# |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 79608    | 5.41     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 108.20%  |

## Target Compounds

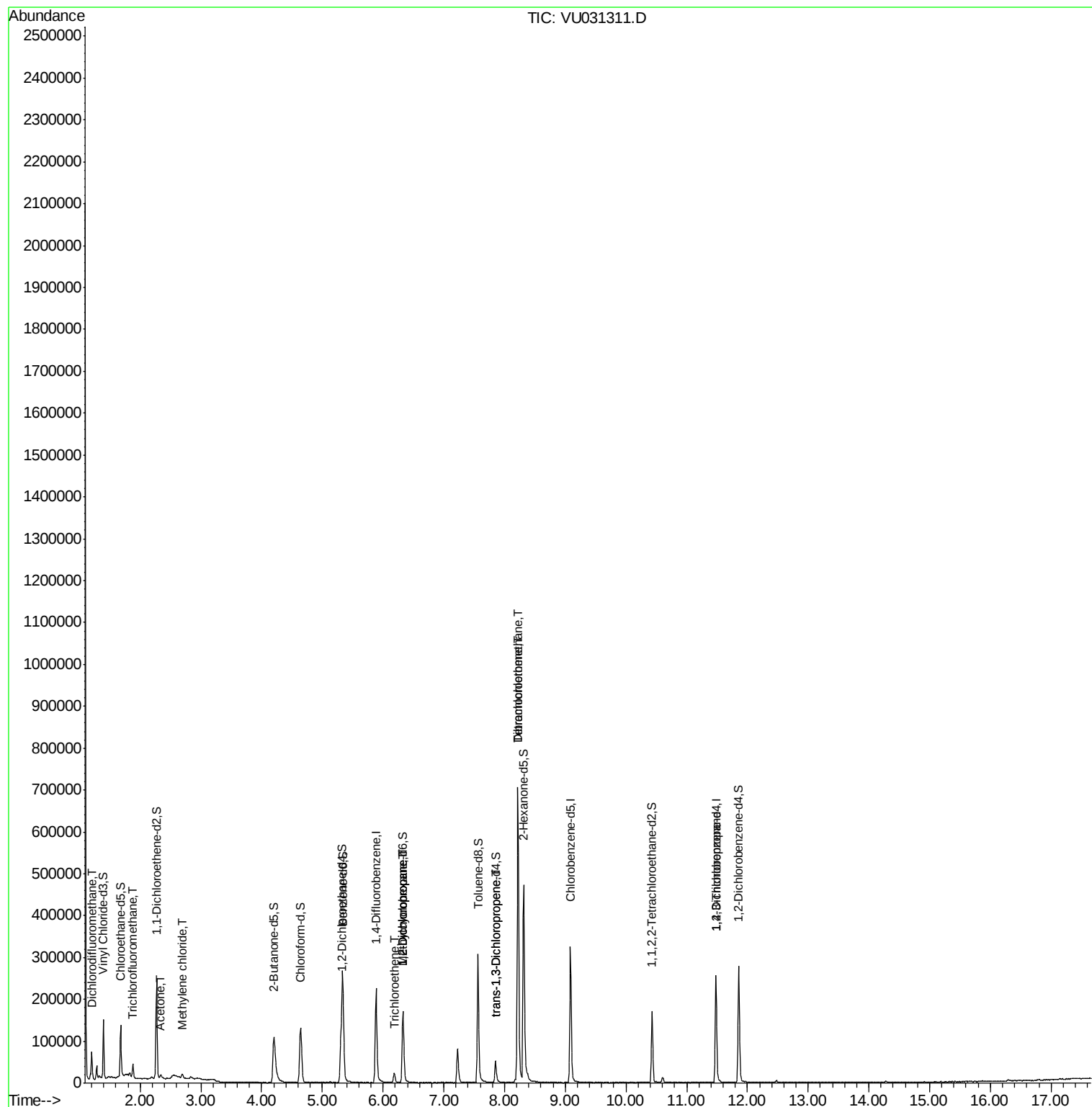
|                               |       |     |        |               | Qvalue |
|-------------------------------|-------|-----|--------|---------------|--------|
| 2) Dichlorodifluoromethane    | 1.20  | 85  | 38905  | 1.747 ug/L    | 98     |
| 9) Trichlorofluoromethane     | 1.88  | 101 | 18063  | 0.468 ug/L    | 96     |
| 13) Acetone                   | 2.34  | 43  | 7072   | 1.523 ug/L    | 89     |
| 16) Methylene chloride        | 2.69  | 84  | 4285   | 0.170 ug/L    | 95     |
| 34) Trichloroethene           | 6.19  | 95  | 8100   | 0.457 ug/L    | 98     |
| 35) Methylcyclohexane         | 6.33  | 83  | 20242  | 0.830 ug/L #  | 15     |
| 37) 1,2-Dichloropropane       | 6.33  | 63  | 9654   | 0.559 ug/L #  | 89     |
| 44) trans-1,3-Dichloropropene | 7.85  | 75  | 1761   | 0.092 ug/L    | 83     |
| 47) Tetrachloroethene         | 8.22  | 164 | 167283 | 12.676 ug/L   | 94     |
| 49) Dibromochloromethane      | 8.22  | 129 | 156953 | 10.659 ug/L # | 11     |
| 59) 1,2,3-Trichloropropane    | 11.48 | 75  | 8350   | 0.741 ug/L    | 100    |

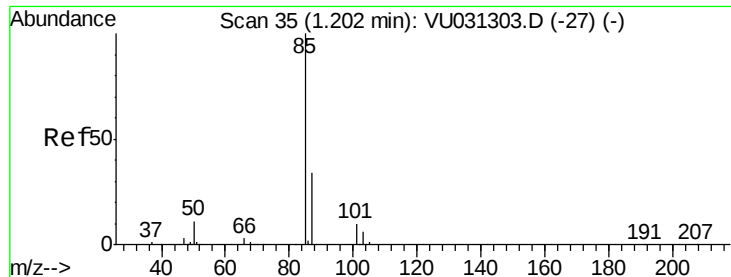
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 19 04:42:10 2019  
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Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Apr 19 04:38:37 2019  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 1.747 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031311.D

Acq: 18 Apr 2019 16:54

Instrument :

MSVOA\_U

ClientSampleId :

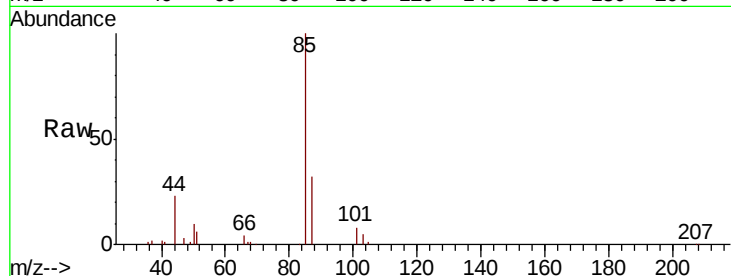
YAMZ2DL

Tgt Ion: 85 Resp: 38905

Ion Ratio Lower Upper

85 100

87 32.3 26.8 40.2



Abundance Ion 85.00 (84.70 to 85.70): VU031303.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU031303.D (-27) (-)

1.20

40000

30000

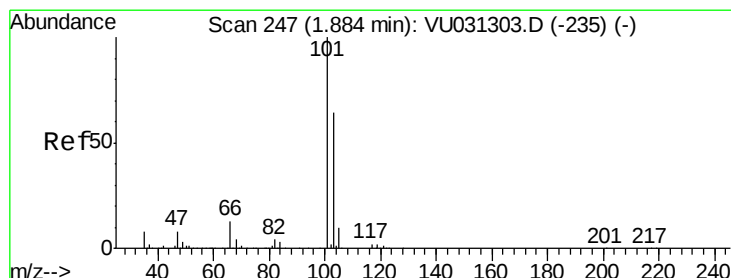
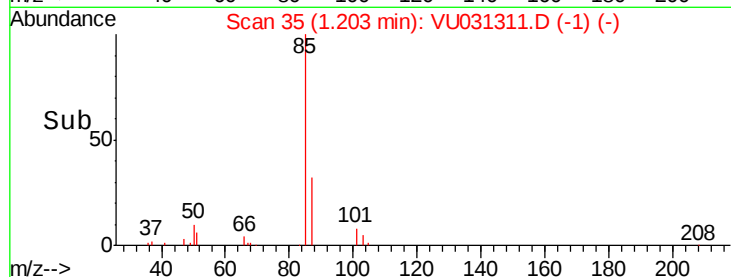
20000

10000

0

Time-->

1.15 1.20 1.25



#9

Trichlorofluoromethane

Concen: 0.468 ug/L

RT: 1.88 min Scan# 246

Delta R.T. -0.00 min

Lab File: VU031311.D

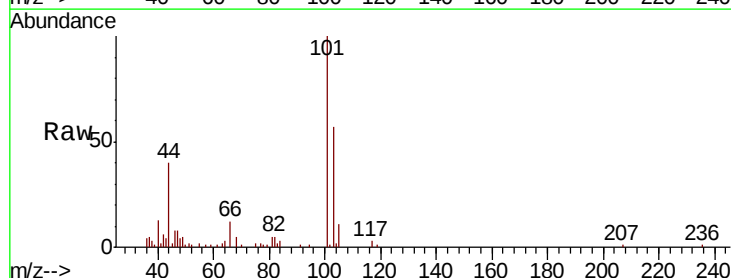
Acq: 18 Apr 2019 16:54

Tgt Ion: 101 Resp: 18063

Ion Ratio Lower Upper

101 100

103 62.0 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): VU031303.D (-235) (-)

Ion 103.00 (102.70 to 103.70): VU031303.D (-235) (-)

1.88

15000

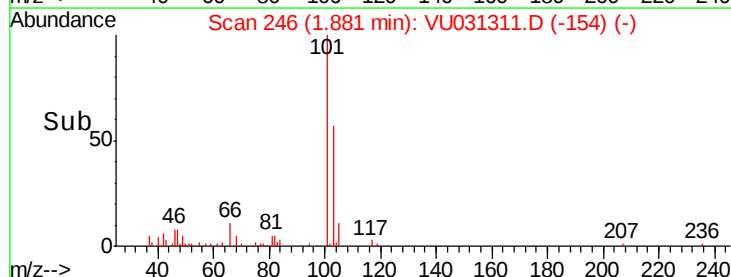
10000

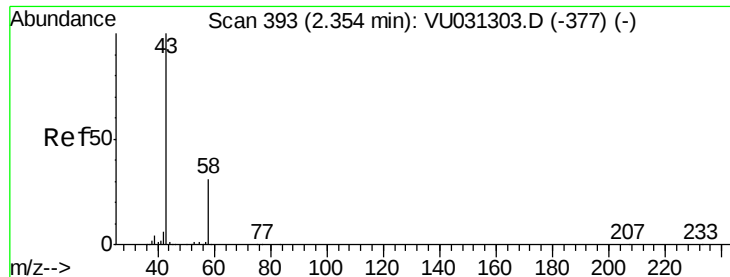
5000

0

Time-->

1.85 1.90





#13

Acetone

Concen: 1.523 ug/L

RT: 2.34 min Scan# 390

Delta R.T. -0.01 min

Lab File: VU031311.D

Acq: 18 Apr 2019 16:54

Instrument :

MSVOA\_U

ClientSampleId :

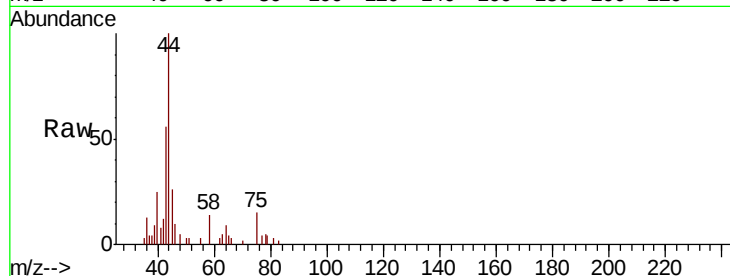
YAMZ2DL

Tgt Ion: 43 Resp: 7072

Ion Ratio Lower Upper

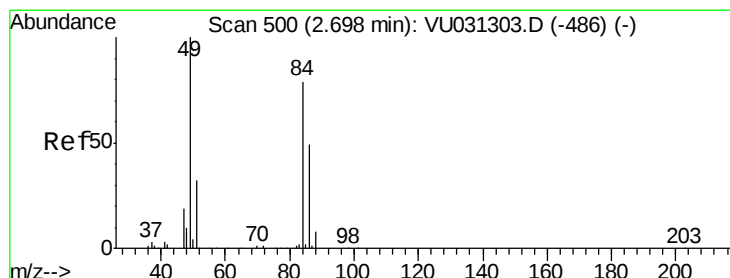
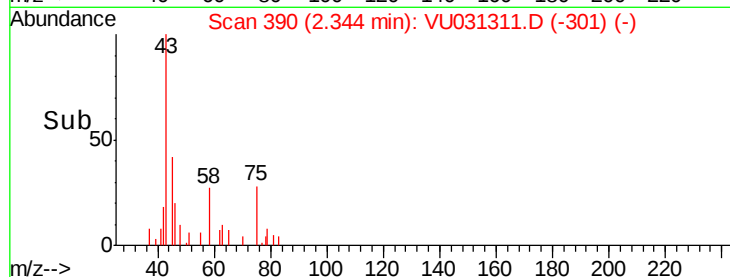
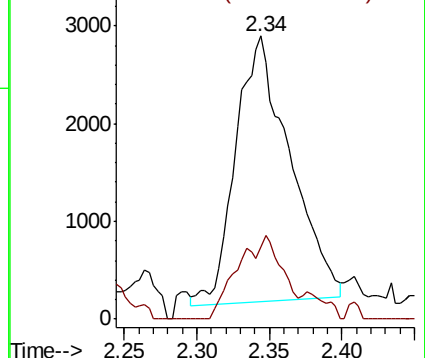
43 100

58 26.1 0.0 64.4



Abundance Ion 43.05 (42.75 to 43.75): VU031311.D (-390) (-)

Ion 58.05 (57.75 to 58.75): VU031311.D (-390) (-)



#16

Methylene chloride

Concen: 0.170 ug/L

RT: 2.69 min Scan# 499

Delta R.T. 0.00 min

Lab File: VU031311.D

Acq: 18 Apr 2019 16:54

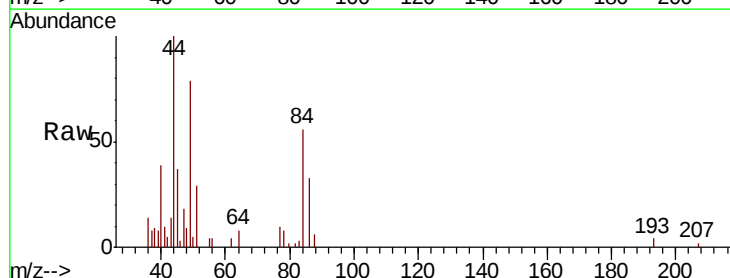
Tgt Ion: 84 Resp: 4285

Ion Ratio Lower Upper

84 100

86 59.4 44.1 81.9

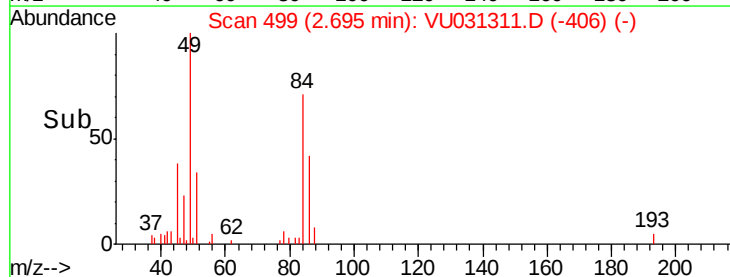
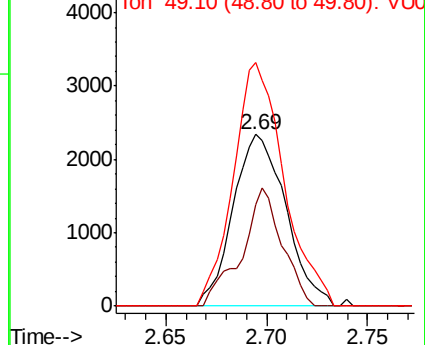
49 141.8 94.6 175.6

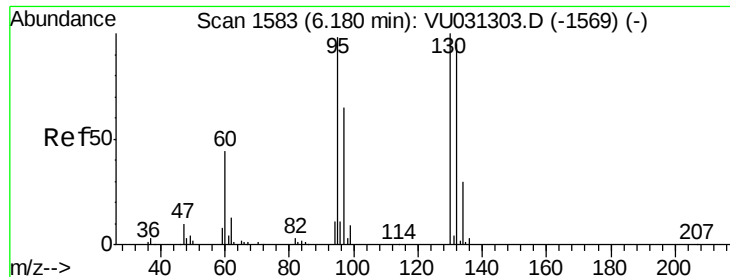


Abundance Ion 84.05 (83.75 to 84.75): VU031311.D (-499) (-)

Ion 86.00 (85.70 to 86.70): VU031311.D (-499) (-)

Ion 49.10 (48.80 to 49.80): VU031311.D (-499) (-)





#34

Trichloroethene

Concen: 0.457 ug/L

RT: 6.19 min Scan# 1585

Delta R.T. 0.01 min

Lab File: VU031311.D

Acq: 18 Apr 2019 16:54

Instrument :

MSVOA\_U

ClientSampleId :

YAMZ2DL

Tgt Ion: 95 Resp: 8100

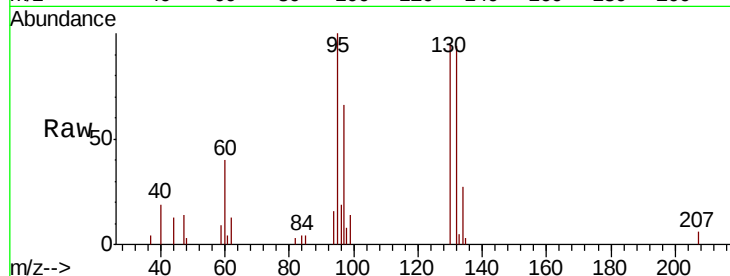
Ion Ratio Lower Upper

95 100

97 66.4 46.8 86.8

132 93.9 65.8 122.2

130 95.3 69.5 129.1

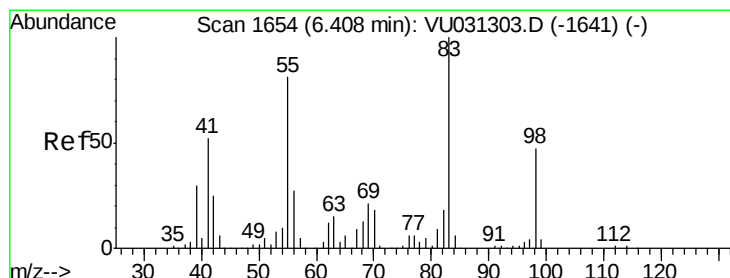
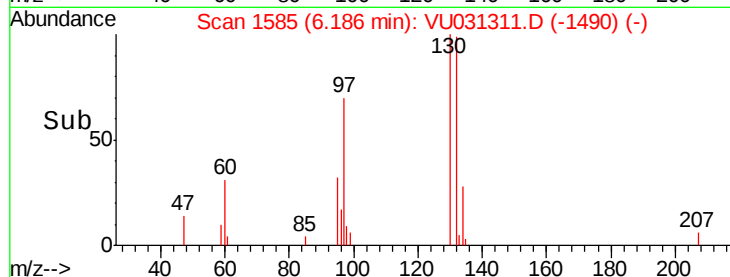
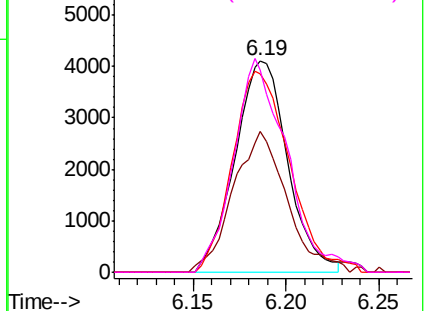


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.830 ug/L

RT: 6.33 min Scan# 1629

Delta R.T. -0.08 min

Lab File: VU031311.D

Acq: 18 Apr 2019 16:54

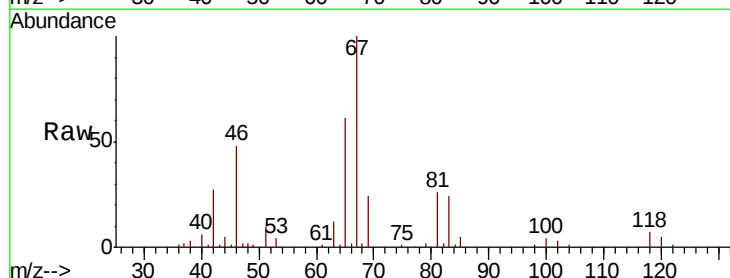
Tgt Ion: 83 Resp: 20242

Ion Ratio Lower Upper

83 100

55 0.2 70.6 105.8#

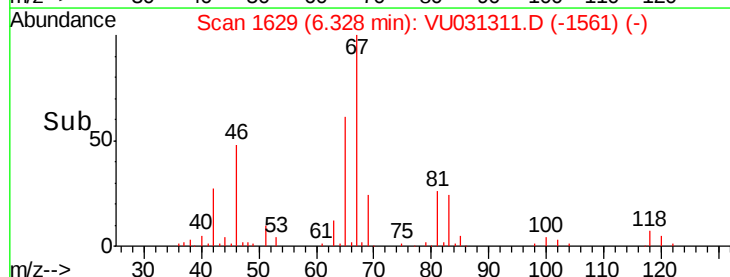
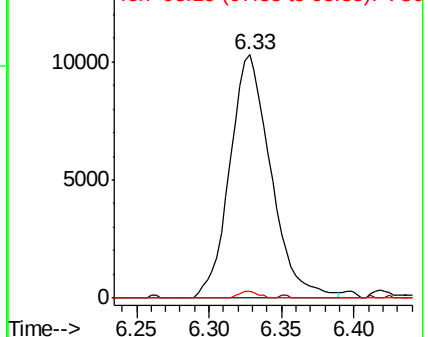
98 1.3 37.0 55.4#

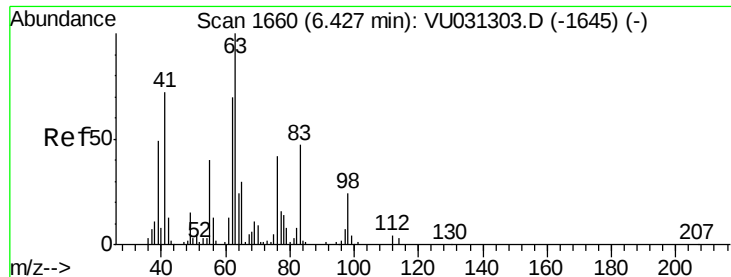


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

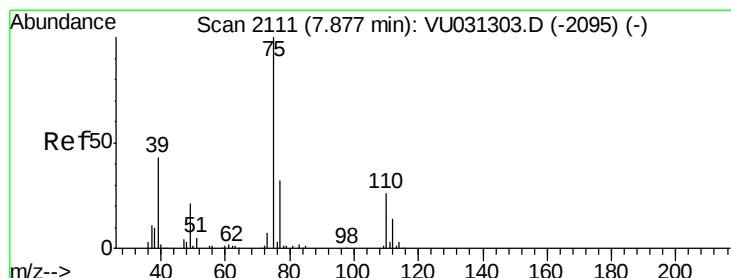
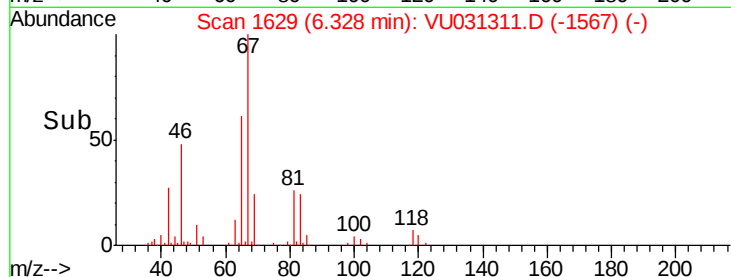
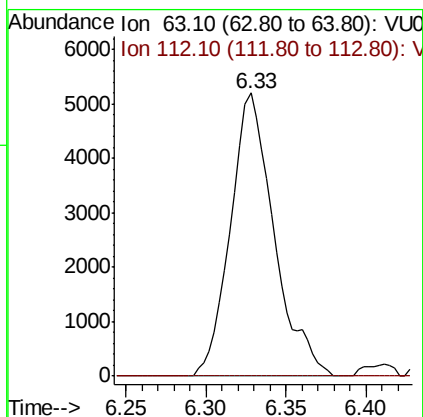
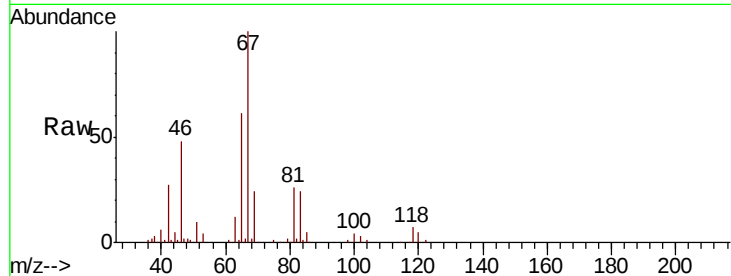




#37  
 1,2-Dichloropropane  
 Concen: 0.559 ug/L  
 RT: 6.33 min Scan# 1629  
 Delta R.T. -0.10 min  
 Lab File: VU031311.D  
 Acq: 18 Apr 2019 16:54

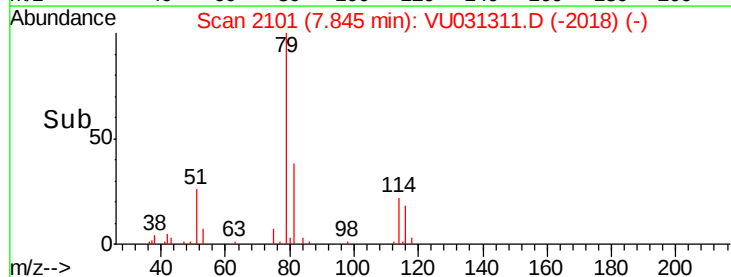
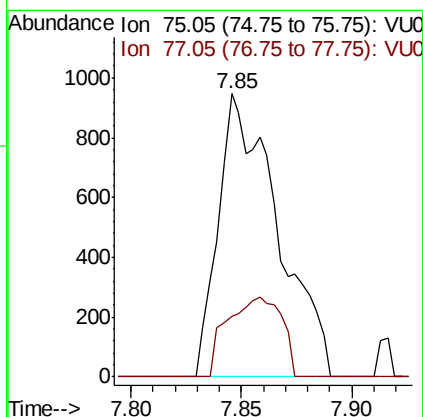
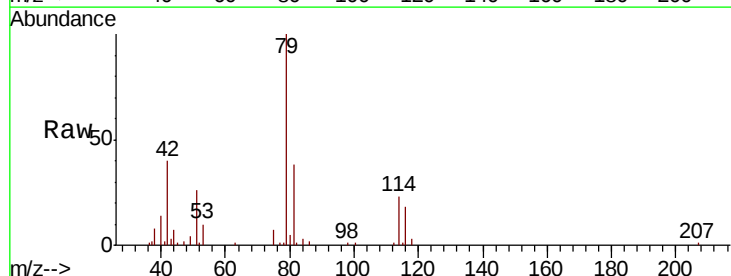
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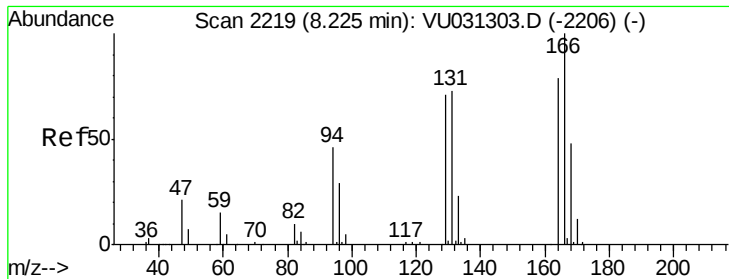
Tgt Ion: 63 Resp: 9654  
 Ion Ratio Lower Upper  
 63 100  
 112 0.7 3.5 5.3#



#44  
 trans-1,3-Dichloropropene  
 Concen: 0.092 ug/L  
 RT: 7.85 min Scan# 2101  
 Delta R.T. -0.03 min  
 Lab File: VU031311.D  
 Acq: 18 Apr 2019 16:54

Tgt Ion: 75 Resp: 1761  
 Ion Ratio Lower Upper  
 75 100  
 77 21.6 21.6 40.0

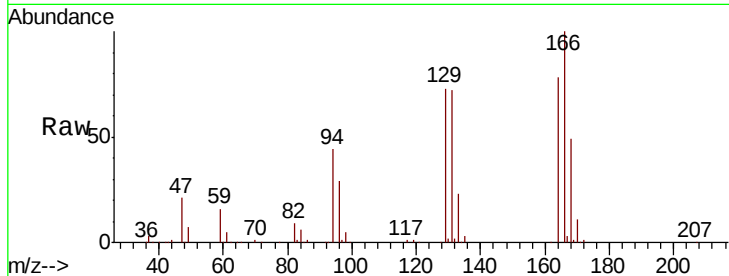




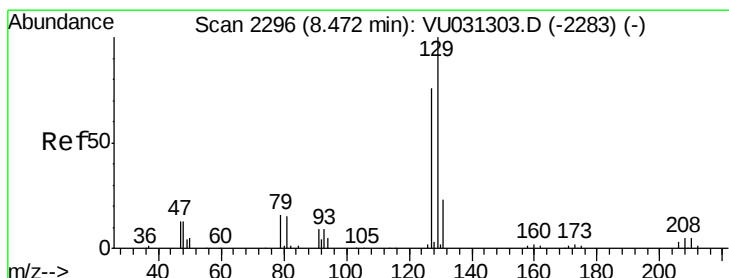
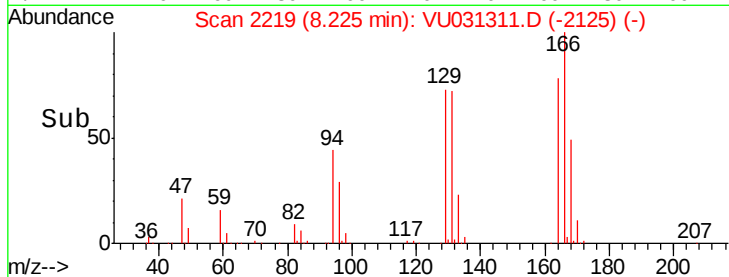
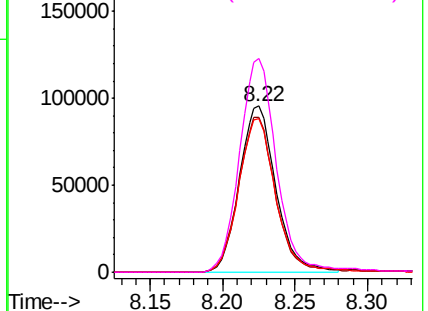
#47  
Tetrachloroethene  
Concen: 12.676 ug/L  
RT: 8.22 min Scan# 2219  
Delta R.T. 0.00 min  
Lab File: VU031311.D  
Acq: 18 Apr 2019 16:54

Instrument :  
MSVOA\_U  
ClientSampleId :  
YAMZ2DL

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 167283 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 93.4  | 61.9  | 114.9  |
| 131      | 92.2  | 61.5  | 114.3  |
| 166      | 128.4 | 84.6  | 157.0  |

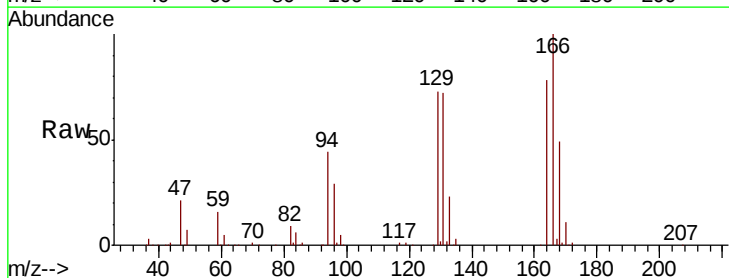


Abundance Ion 163.90 (163.60 to 164.60): V  
Ion 128.95 (128.65 to 129.65): V  
Ion 130.95 (130.65 to 131.65): V  
Ion 165.90 (165.60 to 166.60): V

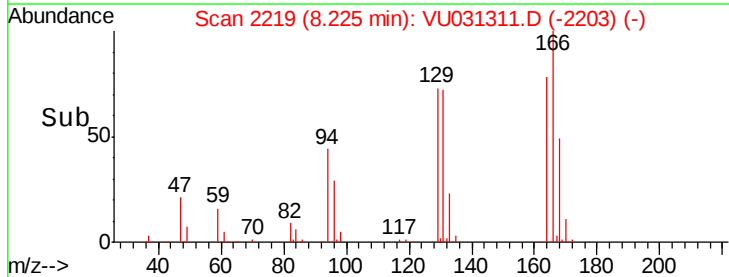
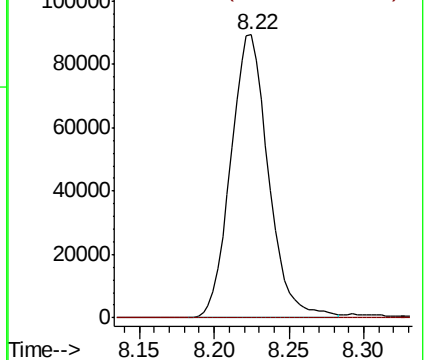


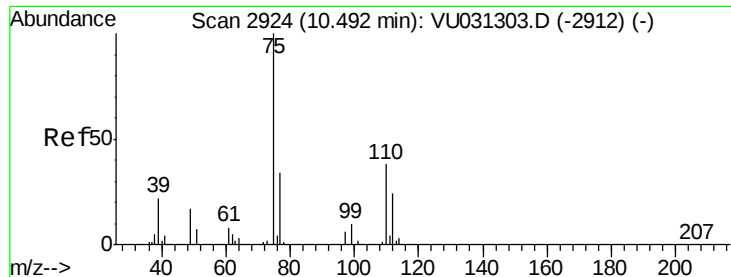
#49  
Dibromochloromethane  
Concen: 10.659 ug/L  
RT: 8.22 min Scan# 2219  
Delta R.T. -0.25 min  
Lab File: VU031311.D  
Acq: 18 Apr 2019 16:54

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 156953 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 0.1   | 53.3  | 99.1#  |



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: 0.741 ug/L

RT: 11.48 min Scan# 3231

Delta R.T. 0.99 min

Lab File: VU031311.D

Acq: 18 Apr 2019 16:54

Instrument :

MSVOA\_U

ClientSampleId :

YAMZ2DL

Tgt Ion: 75 Resp: 8350

Ion Ratio Lower Upper

75 100

77 33.6 27.0 40.6

