

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU082818\  
 Data File : VU026412.D  
 Acq On : 28 Aug 2018 21:20  
 Operator : MD/SY  
 Sample : J4633-12  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Aug 29 01:41:25 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR082818WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Aug 29 00:08:04 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 59983    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 61326    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 26708    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 21010    | 2.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 52.40%  |
| 7) Chloroethane-d5             | 1.68   | 69    | 18879    | 3.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 62.80%# |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 31833    | 2.35     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 47.00%# |
| 20) 2-Butanone-d5              | 4.20   | 46    | 58957    | 39.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 79.80%  |
| 24) Chloroform-d               | 4.65   | 84    | 35785    | 3.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 78.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 21036    | 3.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 73.00%  |
| 32) Benzene-d6                 | 5.34   | 84    | 71986    | 3.43     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 68.60%# |
| 36) 1,2-Dichloropropane-d6     | 6.34   | 67    | 24911    | 3.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 71.60%  |
| 41) Toluene-d8                 | 7.57   | 98    | 61434    | 3.13     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 62.60%# |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 7439     | 2.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 58.80%  |
| 46) 2-Hexanone-d5              | 8.32   | 63    | 41331    | 36.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 73.48%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44  | 84    | 19409    | 3.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 72.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 24222    | 3.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 77.80%# |

## Target Compounds

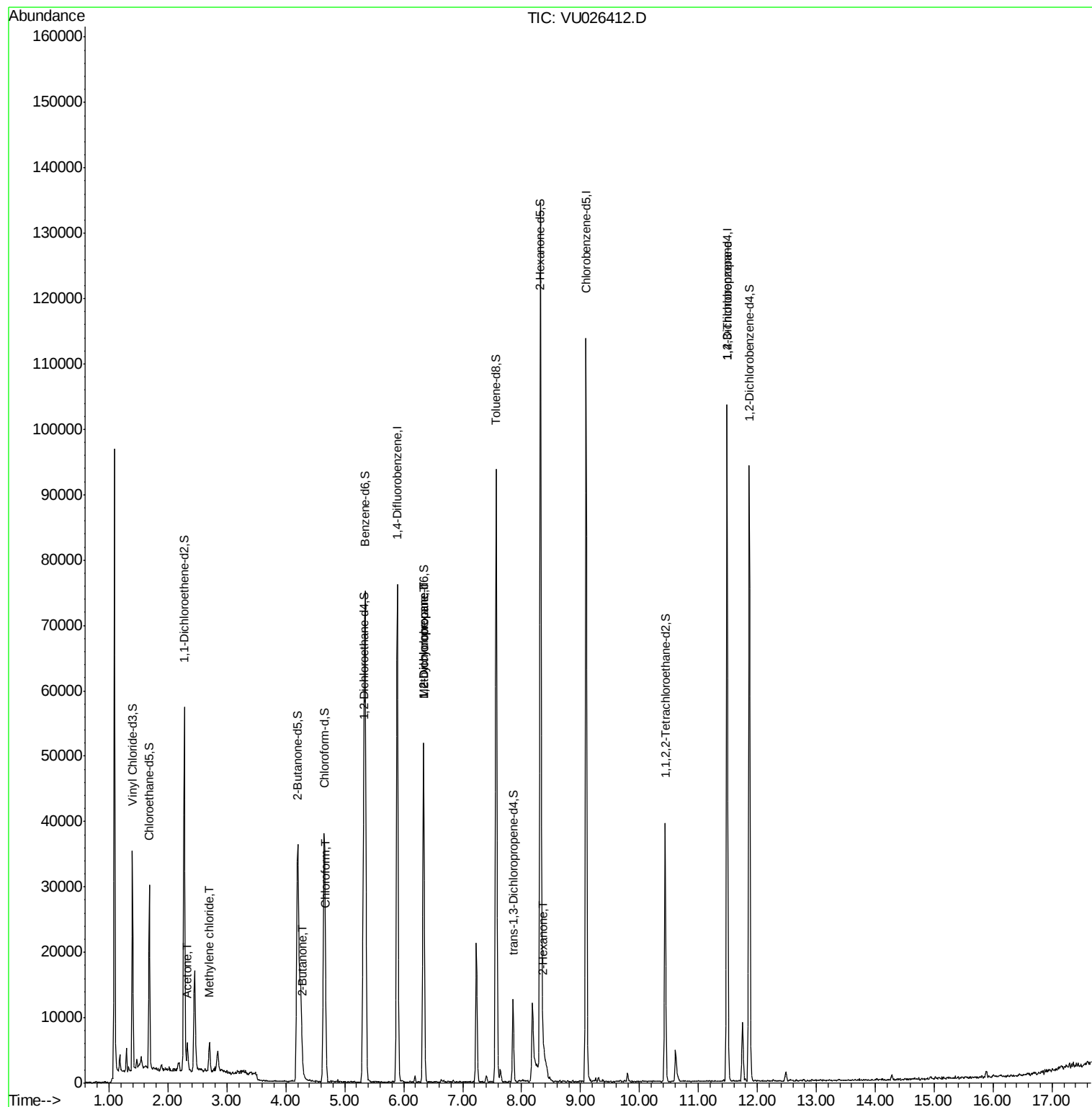
|                            |       |    |      |       | Ovalue    |
|----------------------------|-------|----|------|-------|-----------|
| 13) Acetone                | 2.33  | 43 | 4437 | 4.067 | ug/L 95   |
| 16) Methylene chloride     | 2.70  | 84 | 1924 | 0.313 | ug/L 97   |
| 21) 2-Butanone             | 4.28  | 43 | 688  | 0.492 | ug/L # 53 |
| 25) Chloroform             | 4.68  | 83 | 2201 | 0.206 | ug/L 96   |
| 35) Methylcyclohexane      | 6.34  | 83 | 5756 | 0.736 | ug/L # 15 |
| 37) 1,2-Dichloropropane    | 6.33  | 63 | 2555 | 0.453 | ug/L # 89 |
| 48) 2-Hexanone             | 8.37  | 43 | 764  | 0.325 | ug/L # 73 |
| 59) 1,2,3-Trichloropropane | 11.49 | 75 | 3255 | 0.998 | ug/L 91   |

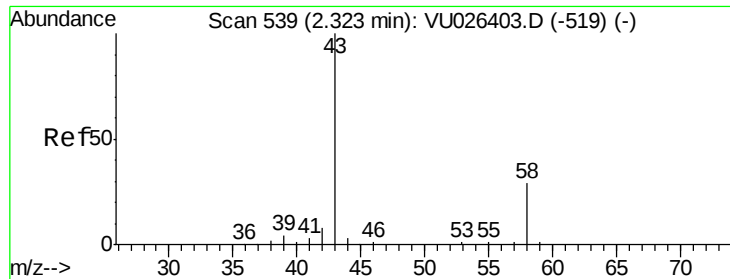
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_U  
ClientSampleId :

Quant Time: Aug 29 01:41:25 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR082818WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Wed Aug 29 00:08:04 2018  
Response via : Initial Calibration





#13

Acetone

Concen: 4.067 ug/L

RT: 2.33 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU026412.D

Acq: 28 Aug 2018 21:20

Instrument :

MSVOA\_U

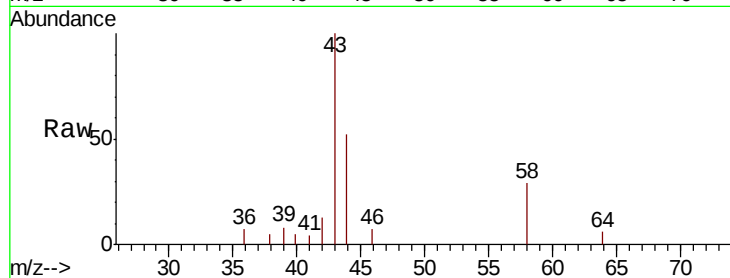
ClientSampleId :

Tot Ion: 43 Resp: 4437

Ion Ratio Lower Upper

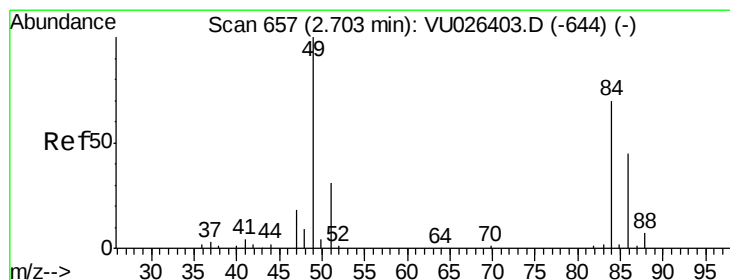
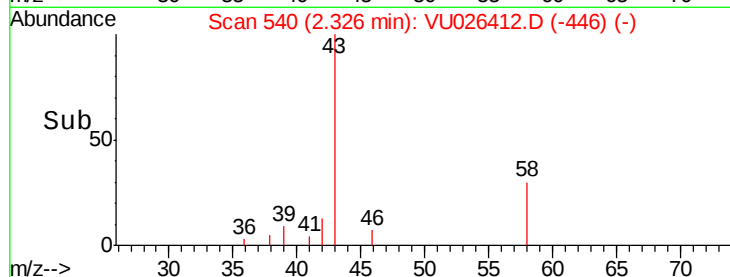
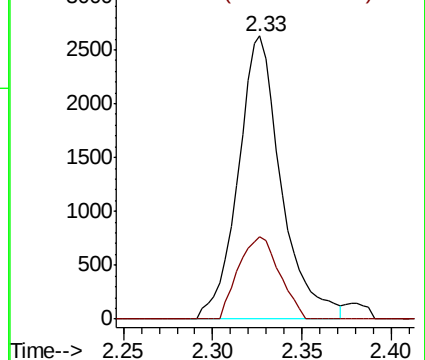
43 100

58 27.6 0.0 60.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#16

Methylene chloride

Concen: 0.313 ug/L

RT: 2.70 min Scan# 657

Delta R.T. -0.00 min

Lab File: VU026412.D

Acq: 28 Aug 2018 21:20

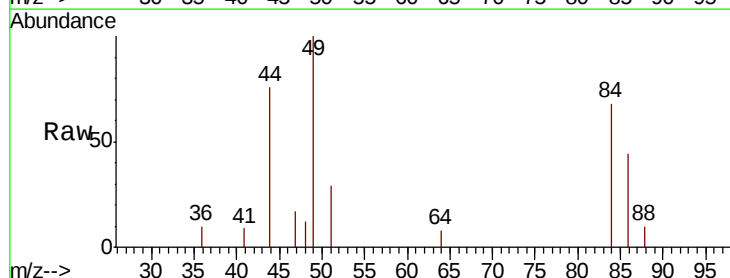
Tgt Ion: 84 Resp: 1924

Ion Ratio Lower Upper

84 100

86 65.1 44.9 83.3

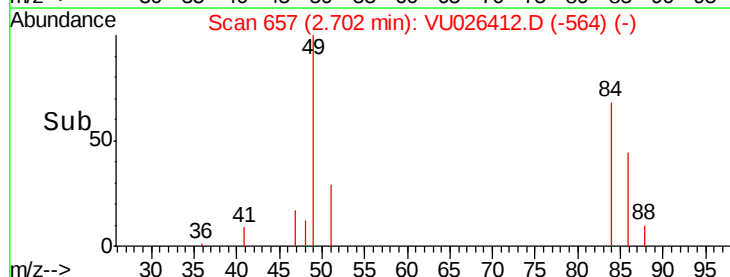
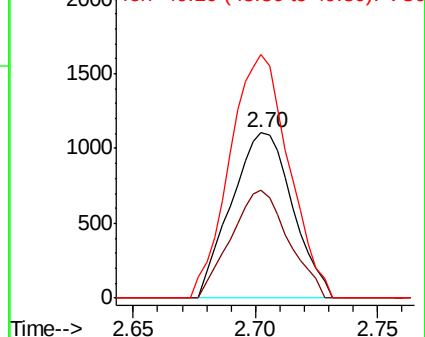
49 147.2 99.7 185.1

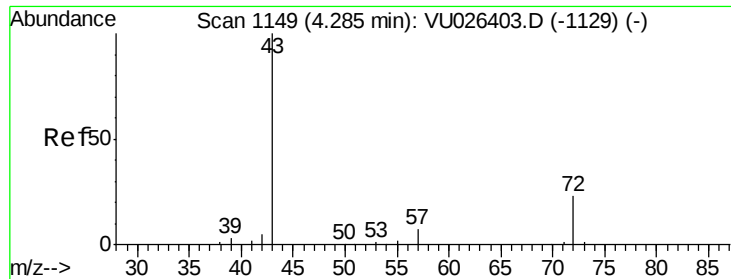


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

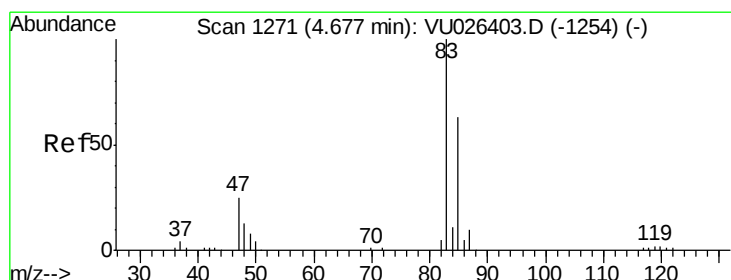
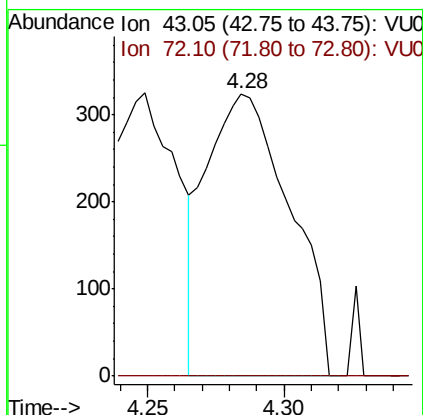
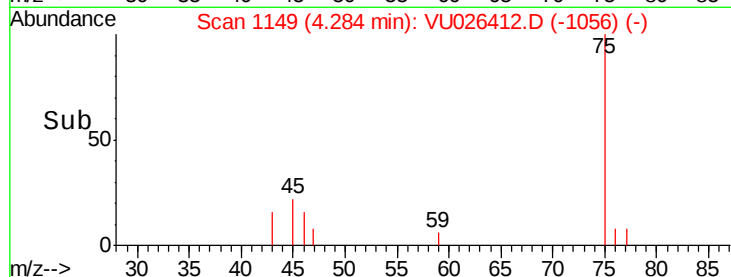
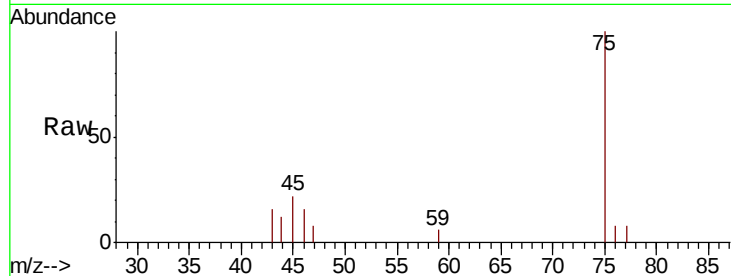




#21  
2-Butanone  
Concen: 0.492 ug/L  
RT: 4.28 min Scan# 1149  
Delta R.T. -0.00 min  
Lab File: VU026412.D  
Acq: 28 Aug 2018 21:20

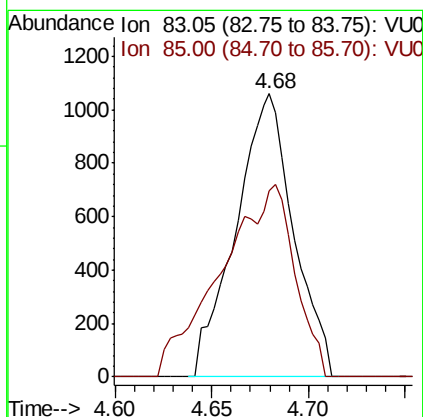
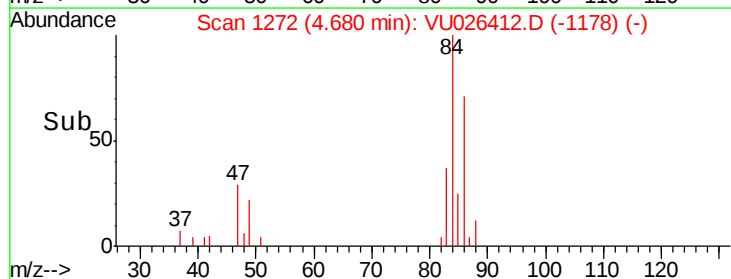
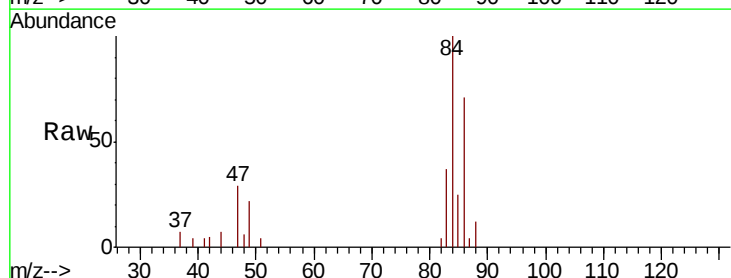
Instrument :  
MSVOA\_U  
ClientSampled :

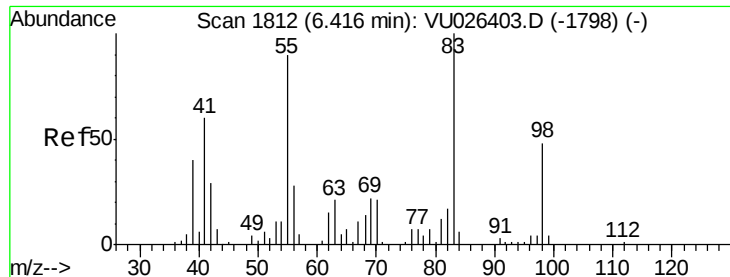
Tot Ion: 43 Resp: 688  
Ion Ratio Lower Upper  
43 100  
72 0.0 11.4 34.1#



#25  
Chloroform  
Concen: 0.206 ug/L  
RT: 4.68 min Scan# 1272  
Delta R.T. 0.00 min  
Lab File: VU026412.D  
Acq: 28 Aug 2018 21:20

Tgt Ion: 83 Resp: 2201  
Ion Ratio Lower Upper  
83 100  
85 65.9 43.8 81.4

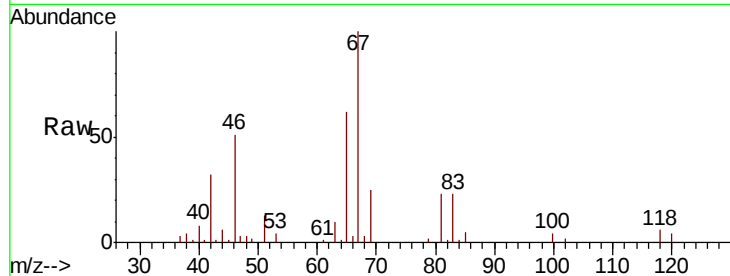




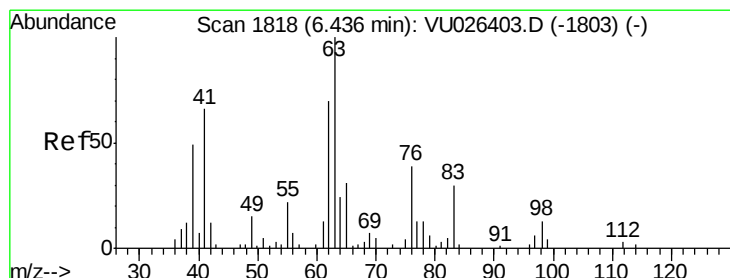
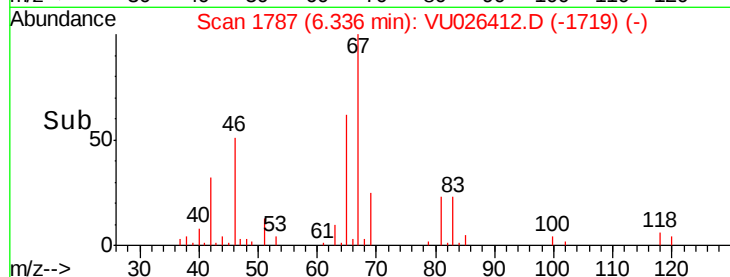
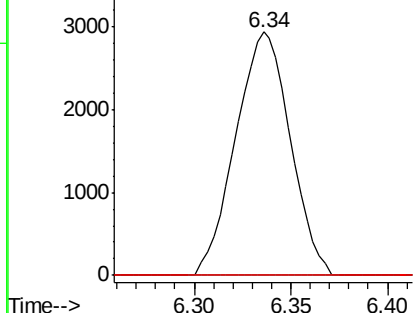
#35  
Methvlcvclohexane  
Concen: 0.736 ug/L  
RT: 6.34 min Scan# 1787  
Delta R.T. -0.08 min  
Lab File: VU026412.D  
Acq: 28 Aug 2018 21:20

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 83 Resp: 5756  
Ion Ratio Lower Upper  
83 100  
55 0.0 68.1 102.1#  
98 0.0 36.0 54.0#

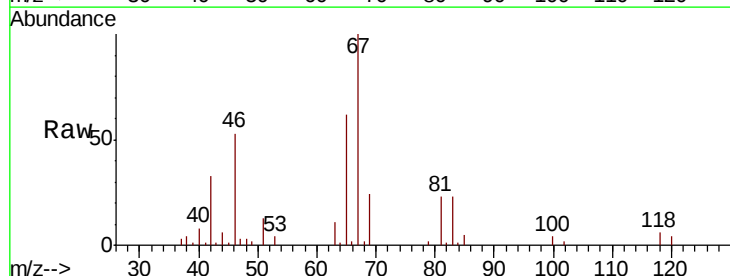


Abundance Ion 83.15 (82.85 to 83.85): VU0  
Ion 55.10 (54.80 to 55.80): VU0  
Ion 98.15 (97.85 to 98.85): VU0

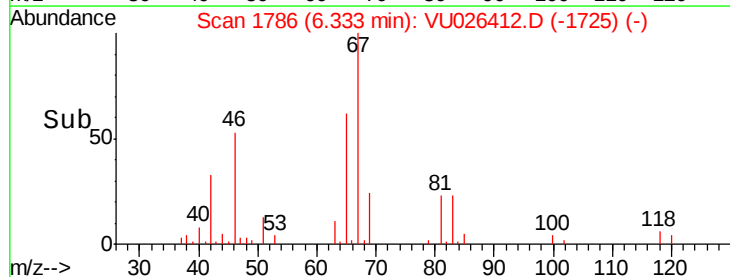
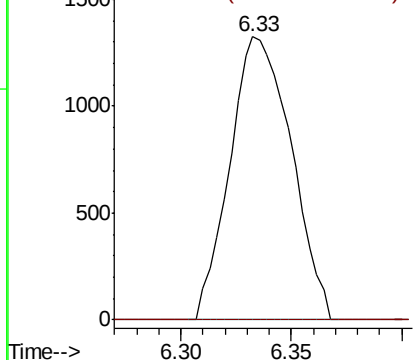


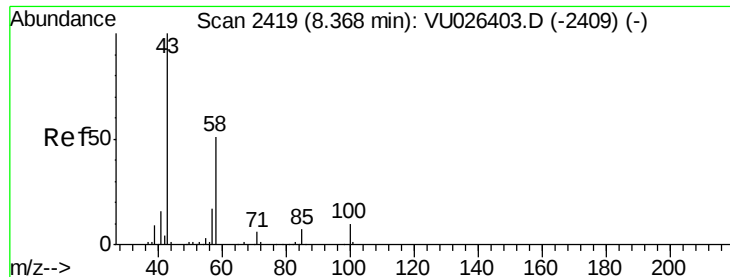
#37  
1,2-Dichloropropane  
Concen: 0.453 ug/L  
RT: 6.33 min Scan# 1786  
Delta R.T. -0.10 min  
Lab File: VU026412.D  
Acq: 28 Aug 2018 21:20

Tgt Ion: 63 Resp: 2555  
Ion Ratio Lower Upper  
63 100  
112 0.0 2.9 4.3#



Abundance Ion 63.10 (62.80 to 63.80): VU0  
Ion 112.10 (111.80 to 112.80): V

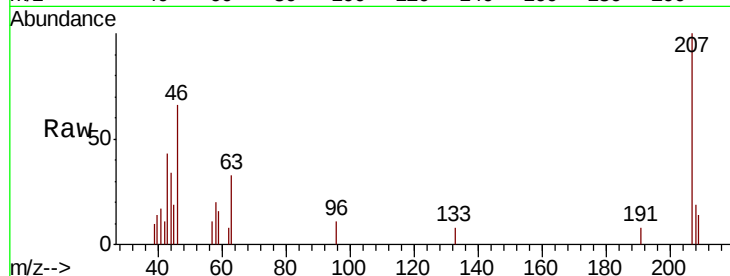




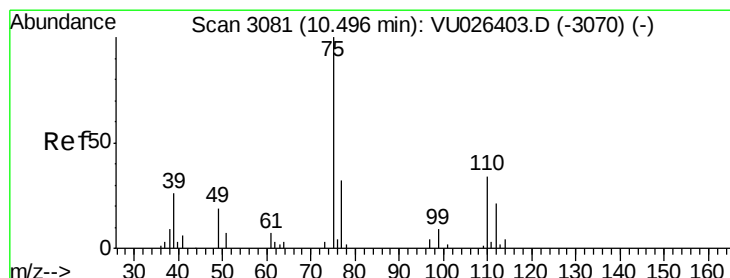
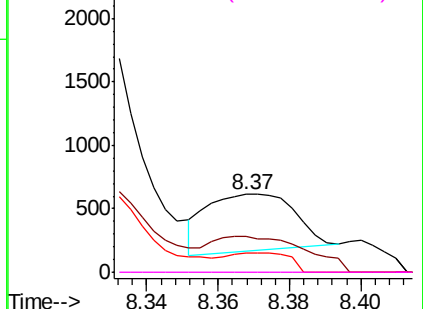
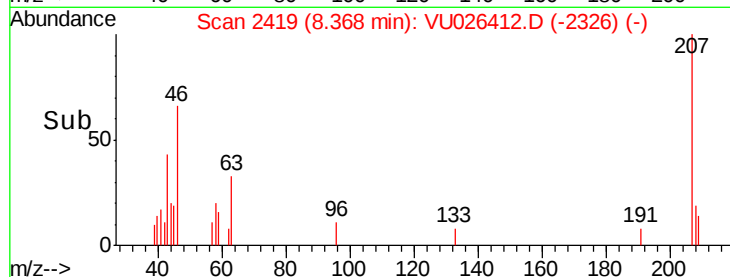
#48  
 2-Hexanone  
 Concen: 0.325 ug/L  
 RT: 8.37 min Scan# 2419  
 Delta R.T. -0.00 min  
 Lab File: VU026412.D  
 Acq: 28 Aug 2018 21:20

Instrument :  
 MSVOA\_U  
 ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 764   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 71.3  | 40.5  | 60.7# |
| 57       | 25.0  | 14.0  | 21.0# |
| 100      | 0.0   | 7.6   | 11.4# |

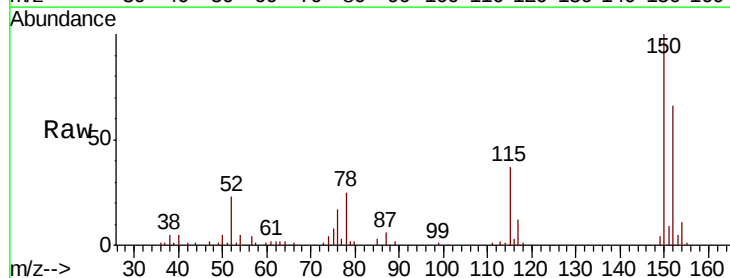


Abundance Ion 43.05 (42.75 to 43.75): VU0  
 Ion 58.05 (57.75 to 58.75): VU0  
 Ion 57.20 (56.90 to 57.90): VU0  
 Ion 100.15 (99.85 to 100.85): VU0



#59  
 1,2,3-Trichloropropane  
 Concen: 0.998 ug/L  
 RT: 11.49 min Scan# 3389  
 Delta R.T. 0.99 min  
 Lab File: VU026412.D  
 Acq: 28 Aug 2018 21:20

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 3255  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 36.0  | 25.0  | 37.4  |



Abundance Ion 75.00 (74.70 to 75.70): VU0  
 Ion 77.00 (76.70 to 77.70): VU0

