

Data File : VU028819.D  
Acq On : 20 Dec 2018 13:05  
Operator : MD/SY  
Sample : J6487-05  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
F9H21

Quant Time: Dec 21 03:55:42 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Dec 21 03:50:07 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 191490   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 179054   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 75581    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 67042    | 43.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 87.34%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 53369    | 45.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 90.02%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 86628    | 33.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 67.12%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 107825   | 100.25   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 100.25% |
| 24) Chloroform-d               | 4.65    | 84    | 109910   | 45.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.06%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 69604    | 46.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.56%  |
| 32) Benzene-d6                 | 5.34    | 84    | 239590   | 47.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.72%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 84651    | 49.26    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 98.52%  |
| 41) Toluene-d8                 | 7.56    | 98    | 210369   | 45.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.78%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 36620    | 47.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 95.12%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 83865    | 102.75   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 102.75% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 114622   | 48.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.16%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 74655    | 48.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.68%  |

#### Target Compounds

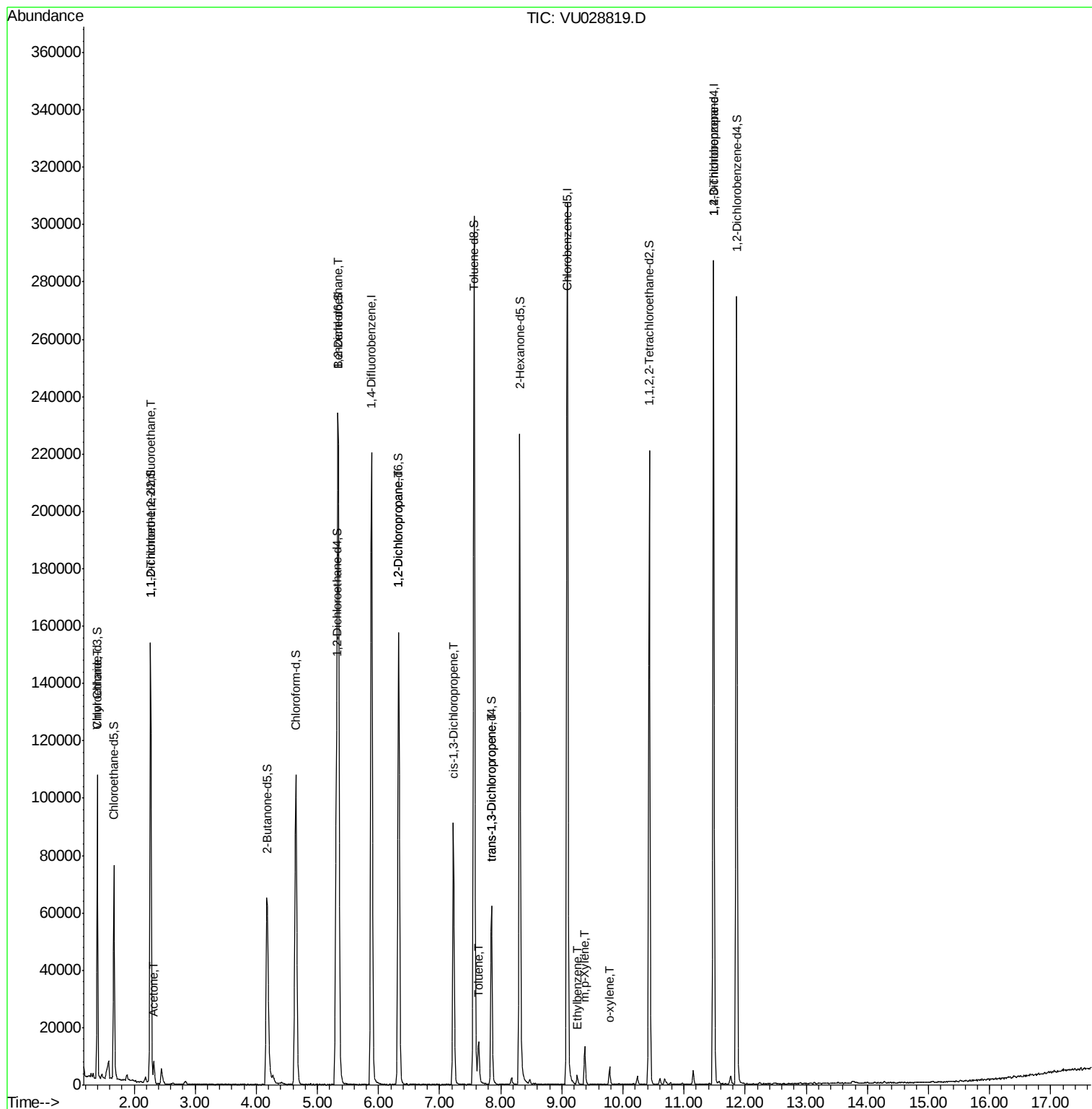
|                                |       |     |       |       | Qvalue |     |
|--------------------------------|-------|-----|-------|-------|--------|-----|
| 8) Chloroethane                | 1.40  | 64  | 945   | 0.883 | ug/L # | 1   |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101 | 835   | 0.673 | ug/L # | 20  |
| 13) Acetone                    | 2.32  | 43  | 6835  | 6.236 | ug/L   | 100 |
| 27) 1,2-Dichloroethane         | 5.34  | 62  | 1039  | 0.568 | ug/L # | 74  |
| 37) 1,2-Dichloropropane        | 6.33  | 63  | 7893  | 4.953 | ug/L # | 90  |
| 39) cis-1,3-Dichloropropene    | 7.22  | 75  | 1779  | 0.783 | ug/L # | 45  |
| 42) Toluene                    | 7.64  | 91  | 10944 | 1.894 | ug/L   | 97  |
| 44) trans-1,3-Dichloropropene  | 7.85  | 75  | 1321  | 0.652 | ug/L # | 82  |
| 52) Ethylbenzene               | 9.25  | 91  | 3148  | 0.507 | ug/L   | 99  |
| 53) m,p-Xylene                 | 9.37  | 106 | 3844  | 1.674 | ug/L   | 91  |
| 54) o-xylene                   | 9.78  | 106 | 1697  | 0.737 | ug/L   | 86  |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75  | 8879  | 4.669 | ug/L   | 89  |

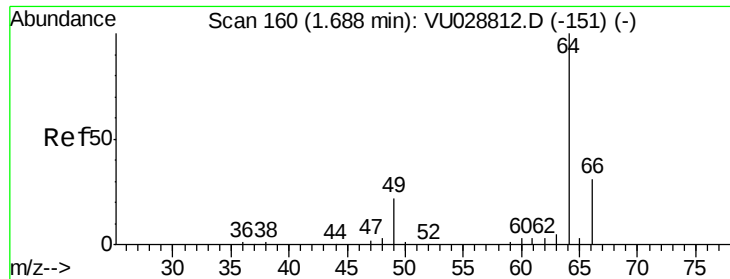
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Fri Dec 21 03:50:07 2018  
Response via : Initial Calibration





#8

Chloroethane

Concen: 0.883 ug/L

RT: 1.40 min Scan# 71

Delta R.T. -0.29 min

Lab File: VU028819.D

Acq: 20 Dec 2018 13:05

Instrument :

MSVOA\_U

ClientSampleId :

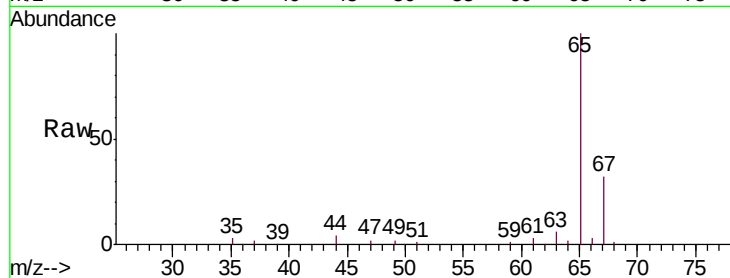
F9H21

Tgt Ion: 64 Resp: 945

Ion Ratio Lower Upper

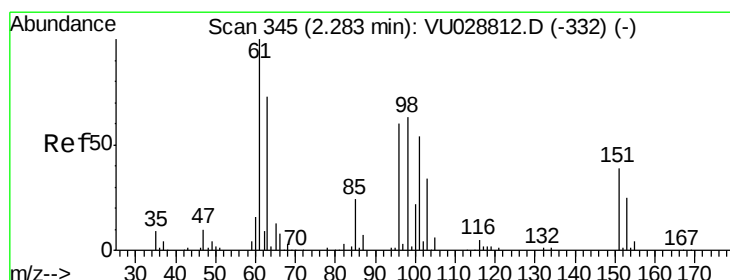
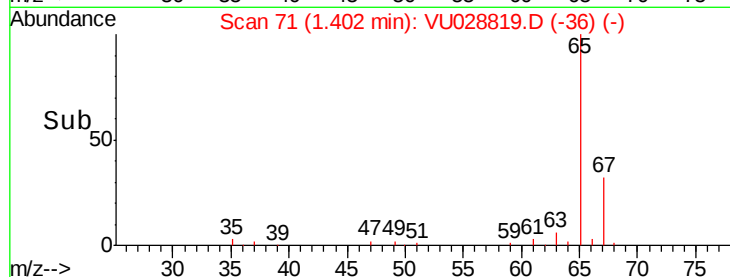
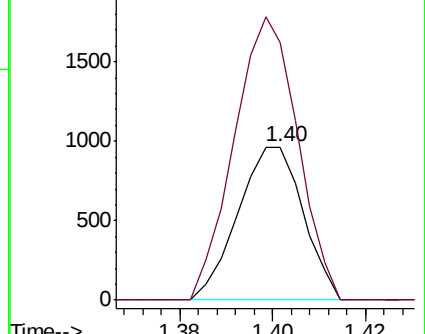
64 100

66 167.9 21.5 39.9#



Abundance Ion 64.00 (63.70 to 64.70): VU028812.D (-151) (-)

Ion 66.00 (65.70 to 66.70): VU028812.D (-151) (-)



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.673 ug/L

RT: 2.27 min Scan# 341

Delta R.T. -0.01 min

Lab File: VU028819.D

Acq: 20 Dec 2018 13:05

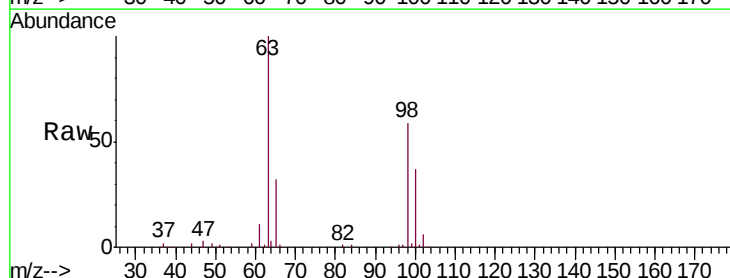
Tgt Ion: 101 Resp: 835

Ion Ratio Lower Upper

101 100

85 0.0 33.8 50.6#

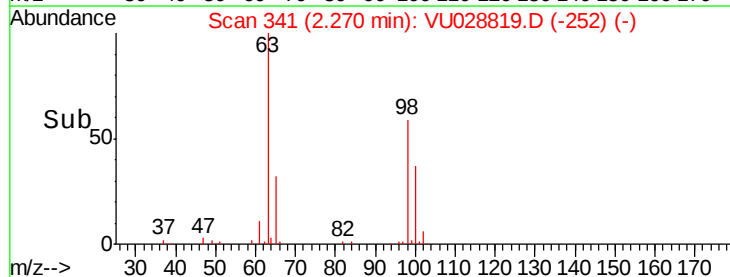
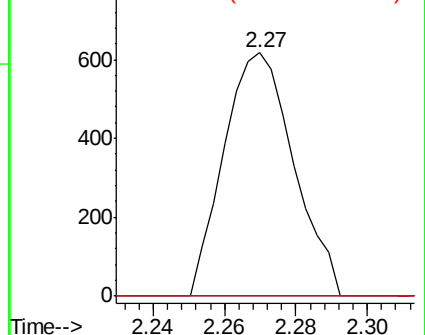
151 0.0 59.4 89.0#

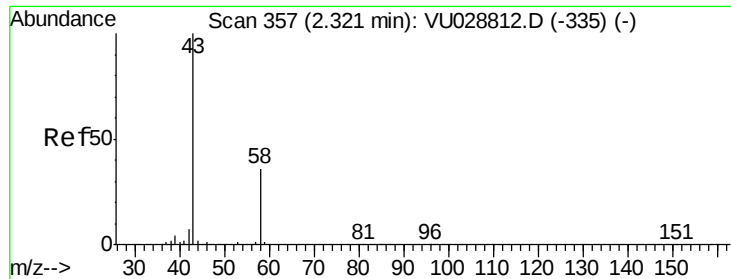


Abundance Ion 101.00 (100.70 to 101.70): VU028812.D (-332) (-)

Ion 85.00 (84.70 to 85.70): VU028812.D (-332) (-)

Ion 151.00 (150.70 to 151.70): VU028812.D (-332) (-)





#13

Acetone

Concen: 6.236 ug/L

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028819.D

Acq: 20 Dec 2018 13:05

Instrument :

MSVOA\_U

ClientSampleId :

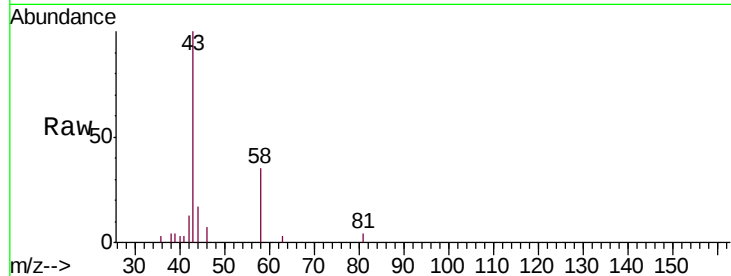
F9H21

Tgt Ion: 43 Resp: 6835

Ion Ratio Lower Upper

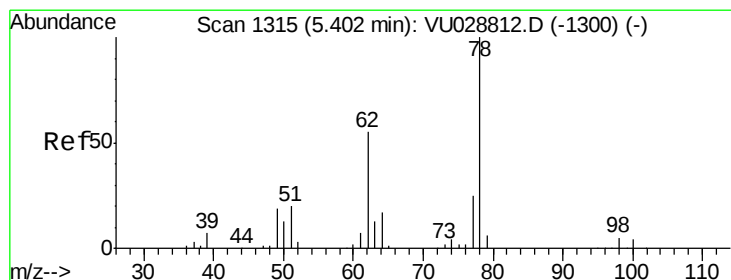
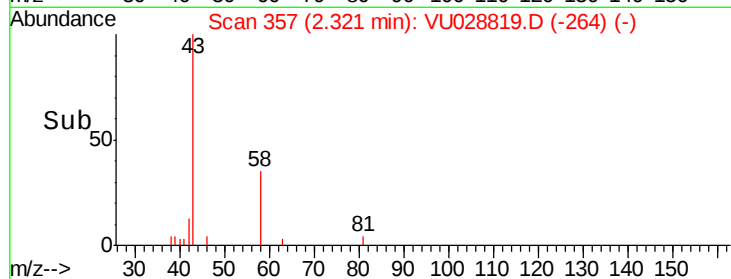
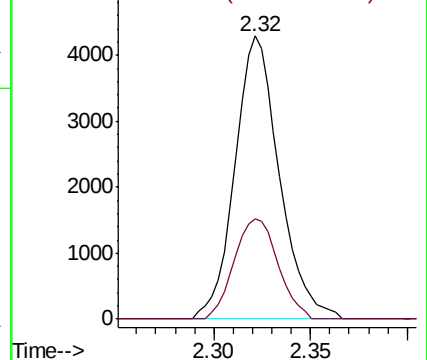
43 100

58 35.1 0.0 70.2



Abundance Ion 43.00 (42.70 to 43.70): VU028812.D (-335) (-)

Ion 58.00 (57.70 to 58.70): VU028812.D (-335) (-)



#27

1,2-Dichloroethane

Concen: 0.568 ug/L

RT: 5.34 min Scan# 1297

Delta R.T. -0.06 min

Lab File: VU028819.D

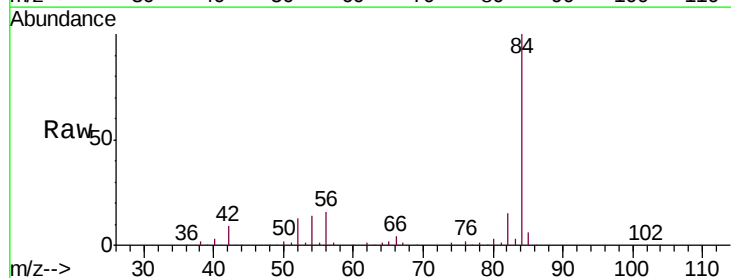
Acq: 20 Dec 2018 13:05

Tgt Ion: 62 Resp: 1039

Ion Ratio Lower Upper

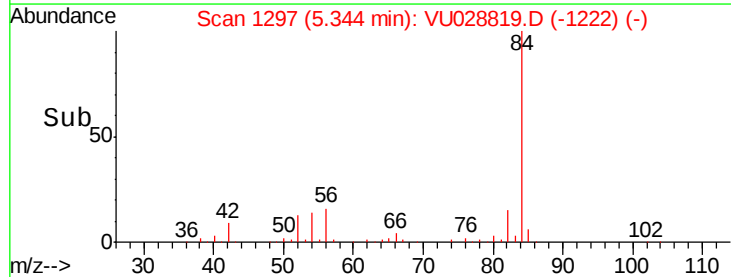
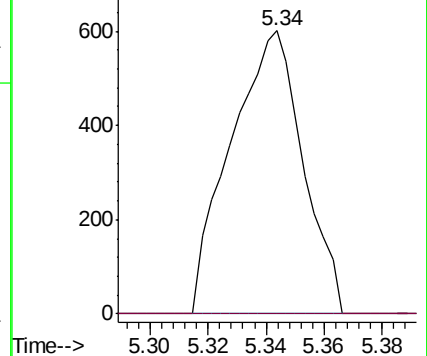
62 100

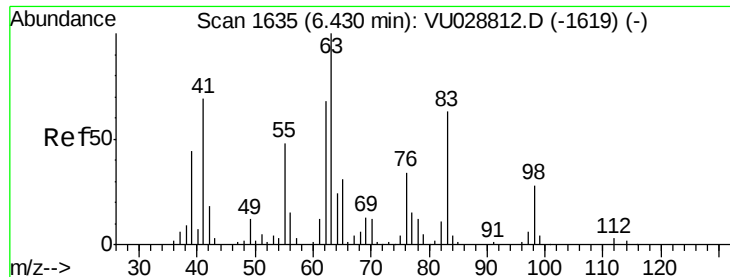
98 0.0 7.5 11.3#



Abundance Ion 62.00 (61.70 to 62.70): VU028812.D (-1300) (-)

Ion 98.00 (97.70 to 98.70): VU028812.D (-1300) (-)

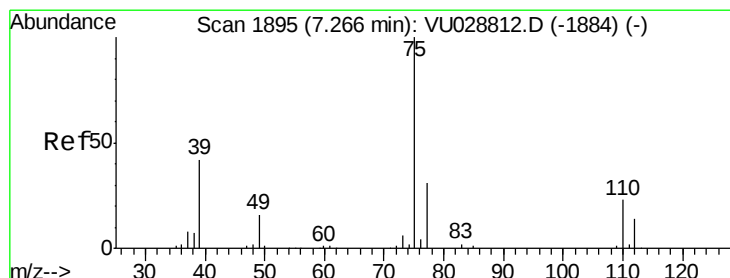
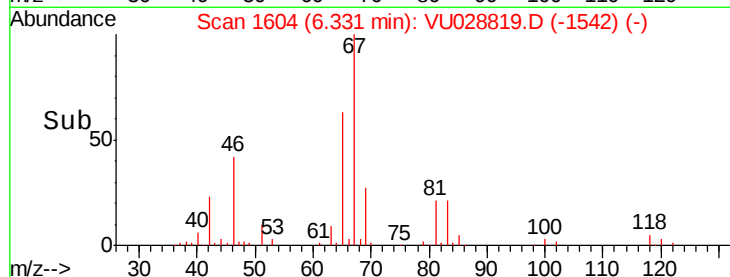
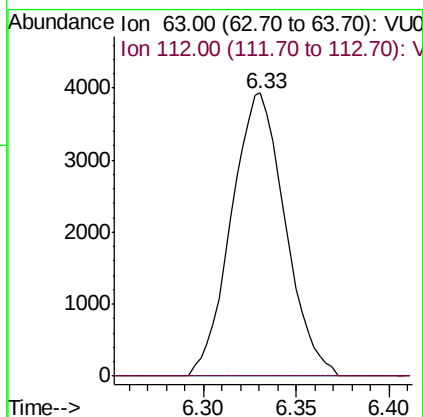
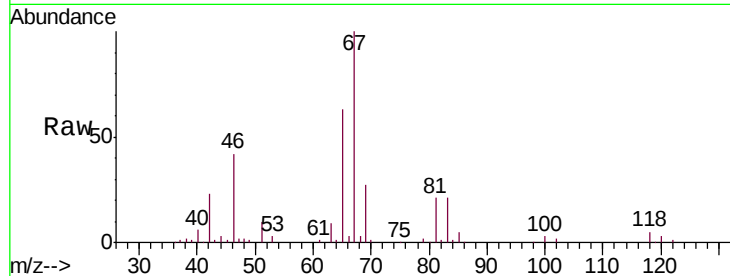




#37  
 1,2-Dichloropropane  
 Concen: 4.953 ug/L  
 RT: 6.33 min Scan# 1604  
 Delta R.T. -0.10 min  
 Lab File: VU028819.D  
 Acq: 20 Dec 2018 13:05

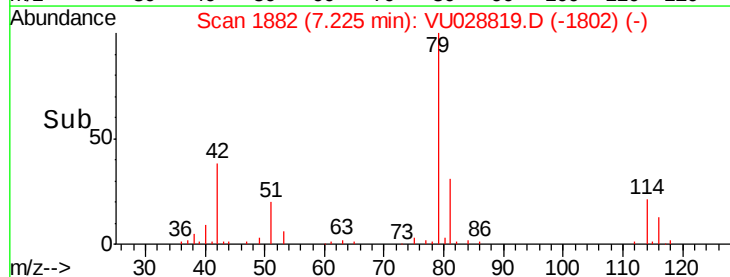
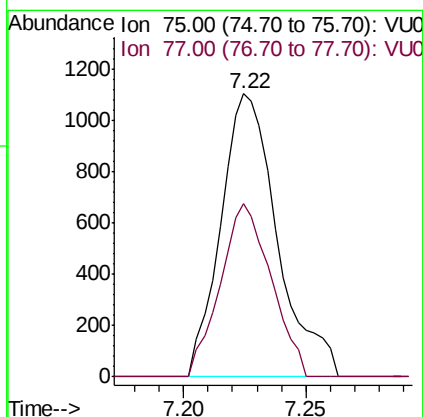
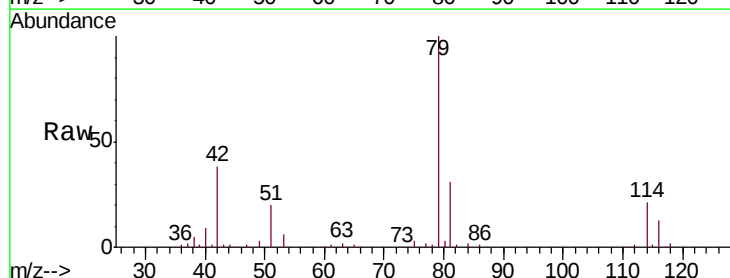
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 F9H21

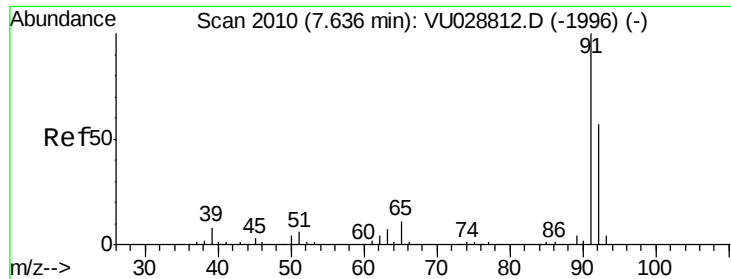
Tgt Ion: 63 Resp: 7893  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 2.7 4.1#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.783 ug/L  
 RT: 7.22 min Scan# 1882  
 Delta R.T. -0.04 min  
 Lab File: VU028819.D  
 Acq: 20 Dec 2018 13:05

Tgt Ion: 75 Resp: 1779  
 Ion Ratio Lower Upper  
 75 100  
 77 61.3 21.8 40.6#





#42

Toluene

Concen: 1.894 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028819.D

Acq: 20 Dec 2018 13:05

Instrument :

MSVOA\_U

ClientSampleId :

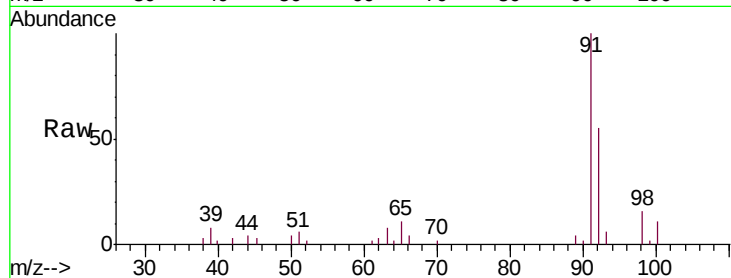
F9H21

Tgt Ion: 91 Resp: 10944

Ion Ratio Lower Upper

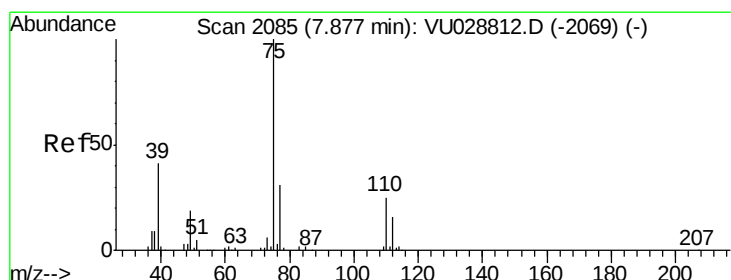
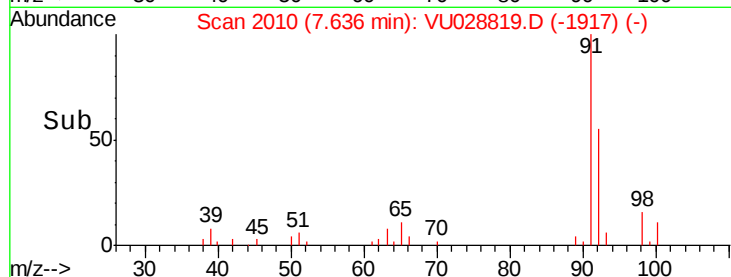
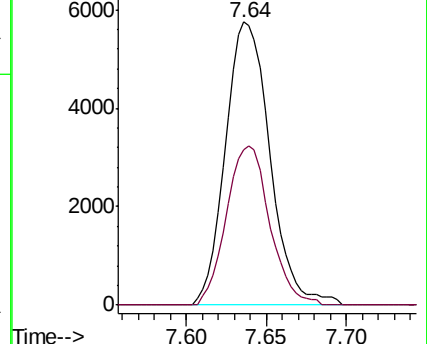
91 100

92 54.8 39.9 74.1



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.652 ug/L

RT: 7.85 min Scan# 2075

Delta R.T. -0.03 min

Lab File: VU028819.D

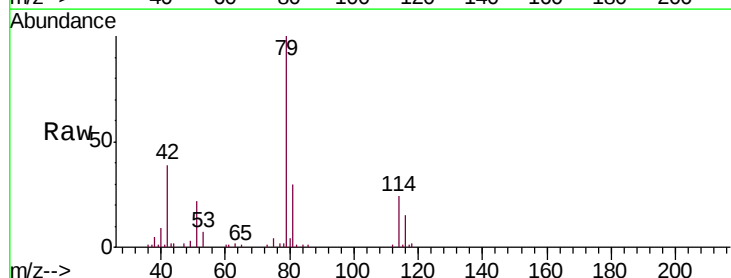
Acq: 20 Dec 2018 13:05

Tgt Ion: 75 Resp: 1321

Ion Ratio Lower Upper

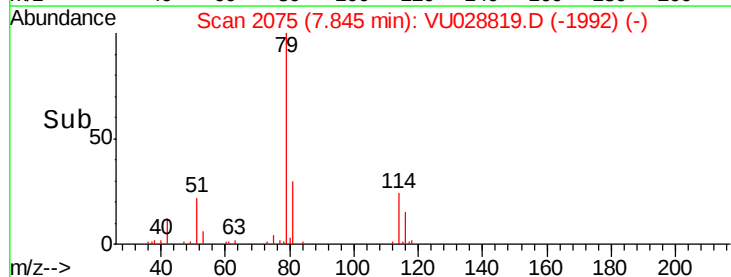
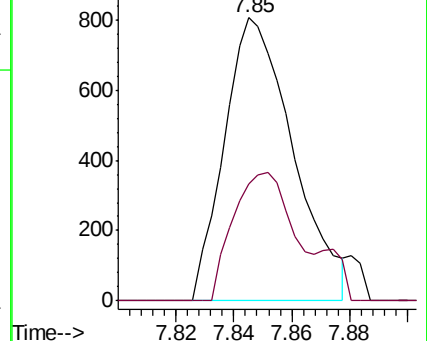
75 100

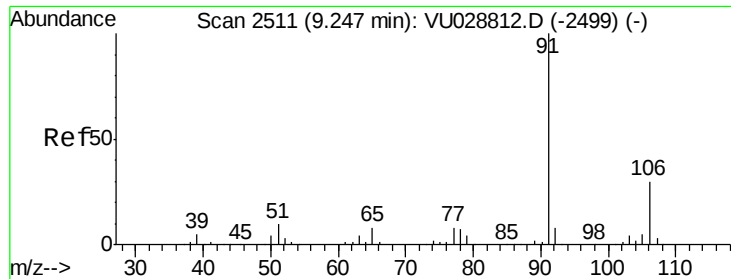
77 41.2 21.8 40.6#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#52

Ethylbenzene

Concen: 0.507 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. 0.00 min

Lab File: VU028819.D

Acq: 20 Dec 2018 13:05

Instrument :

MSVOA\_U

ClientSampleId :

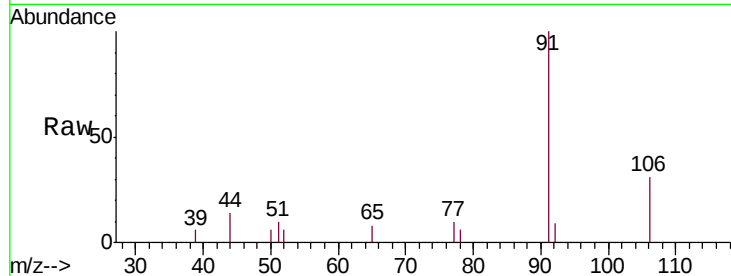
F9H21

Tgt Ion: 91 Resp: 3148

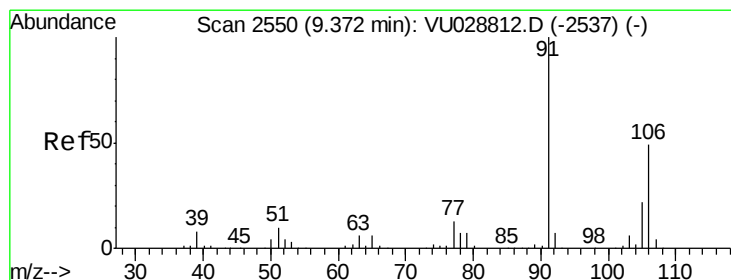
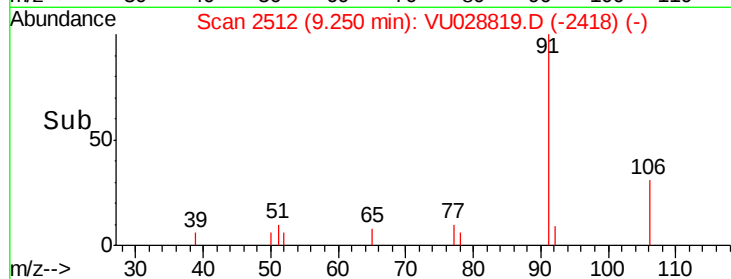
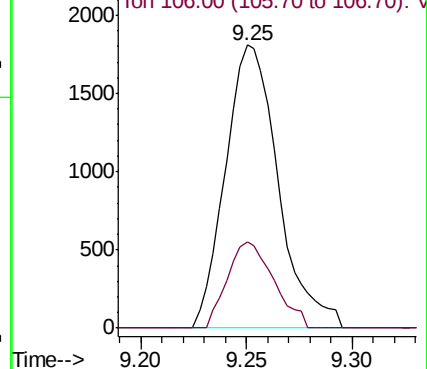
Ion Ratio Lower Upper

91 100

106 30.6 20.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VU028812.D (-2499) (-)



#53

m,p-Xylene

Concen: 1.674 ug/L

RT: 9.37 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VU028819.D

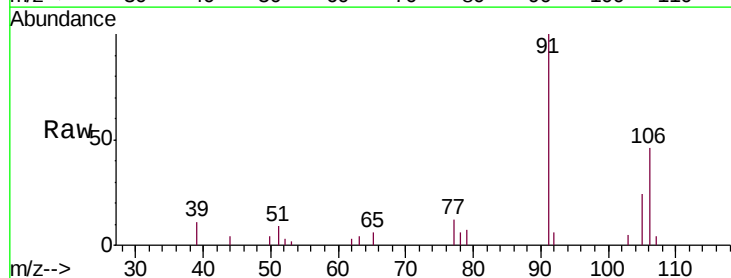
Acq: 20 Dec 2018 13:05

Tgt Ion: 106 Resp: 3844

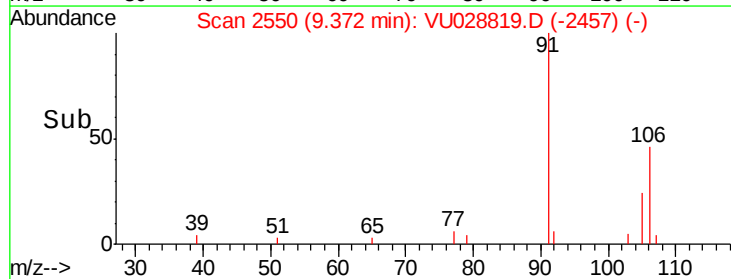
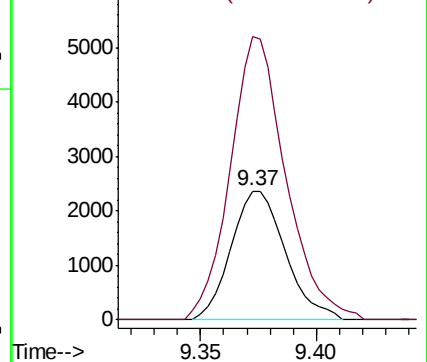
Ion Ratio Lower Upper

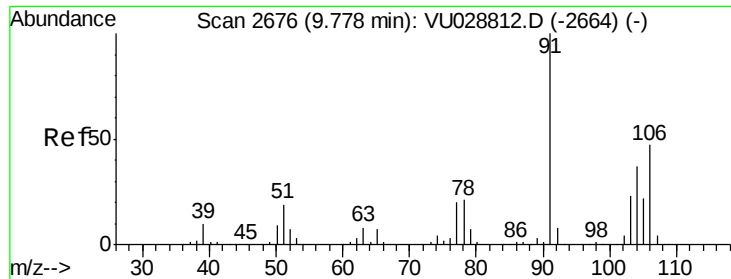
106 100

91 219.7 144.1 267.5



Abundance Ion 106.00 (105.70 to 106.70): VU028819.D (-2457) (-)

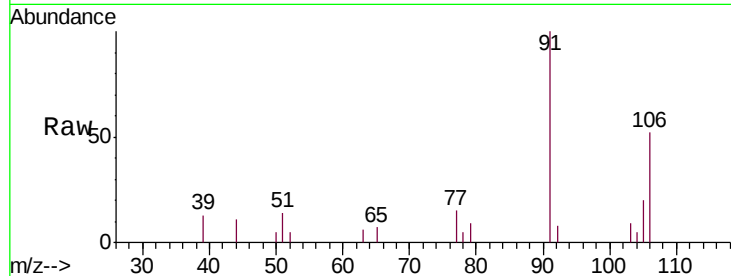




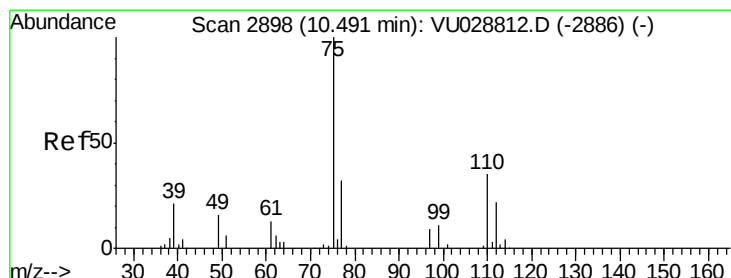
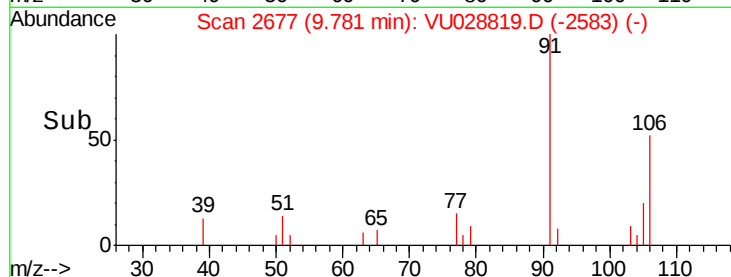
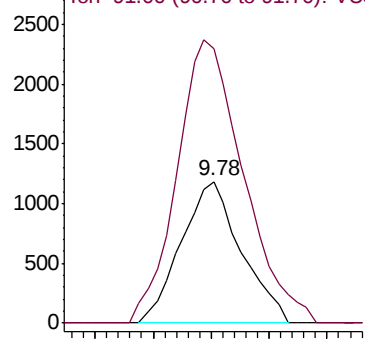
#54  
o-xylene  
Concen: 0.737 ug/L  
RT: 9.78 min Scan# 2677  
Delta R.T. 0.00 min  
Lab File: VU028819.D  
Acq: 20 Dec 2018 13:05

Instrument :  
MSVOA\_U  
ClientSampleId :  
F9H21

Tgt Ion:106 Resp: 1697  
Ion Ratio Lower Upper  
106 100  
91 193.4 150.4 279.4

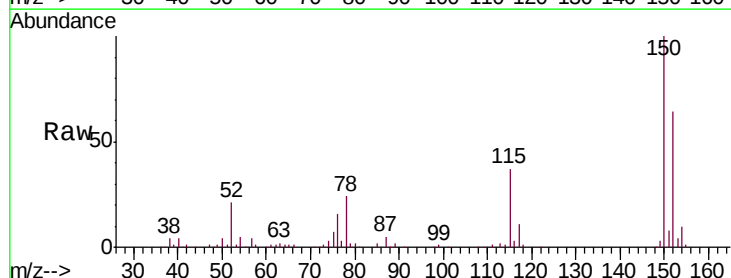


Abundance Ion 106.00 (105.70 to 106.70): VU028812.D (-2664) (-)  
Ion 91.00 (90.70 to 91.70): VU028812.D (-2664) (-)



#59  
1,2,3-Trichloropropane  
Concen: 4.669 ug/L  
RT: 11.48 min Scan# 3206  
Delta R.T. 0.99 min  
Lab File: VU028819.D  
Acq: 20 Dec 2018 13:05

Tgt Ion: 75 Resp: 8879  
Ion Ratio Lower Upper  
75 100  
77 38.2 25.5 38.3



Abundance Ion 75.00 (74.70 to 75.70): VU028812.D (-2886) (-)  
Ion 77.00 (76.70 to 77.70): VU028812.D (-2886) (-)

