

Data File : VU028826.D  
Acq On : 20 Dec 2018 15:54  
Operator : MD/SY  
Sample : J6468-09ME  
Misc : 3.58g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0JG7ME

Quant Time: Dec 21 03:57:17 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     | 5.88  | 114  | 231020   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 222352   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 108755   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 67172    | 36.27    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 72.54%  |
| 7) Chloroethane-d5             | 1.64    | 69    | 39122    | 27.35    | ug/L | -0.03   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 54.70%# |
| 11) 1,1-Dichloroethene-d2      | 2.23    | 63    | 88545    | 28.43    | ug/L | -0.04   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 56.86%# |
| 21) 2-Butanone-d5              | 4.19    | 46    | 113800   | 87.70    | ug/L | 0.02    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 87.70%  |
| 24) Chloroform-d               | 4.64    | 84    | 114532   | 39.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 78.66%  |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 73817    | 41.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 82.24%  |
| 32) Benzene-d6                 | 5.33    | 84    | 254333   | 40.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 80.98%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 89085    | 41.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 83.50%  |
| 41) Toluene-d8                 | 7.56    | 98    | 230395   | 40.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 80.94%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 40139    | 41.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 83.96%  |
| 47) 2-Hexanone-d5              | 8.32    | 63    | 98961    | 97.64    | ug/L | 0.01    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 97.64%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 136413   | 46.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 92.16%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 95139    | 43.25    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 86.50%  |

#### Target Compounds

|                                |       |     |       |              | Qvalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 3) Chloromethane               | 1.32  | 50  | 3163  | 1.235 ug/L   | 97     |
| 6) Bromomethane                | 1.59  | 94  | 546   | 0.566 ug/L   | 90     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.23  | 101 | 848   | 0.566 ug/L # | 20     |
| 15) Methyl Acetate             | 2.63  | 43  | 2605  | 1.264 ug/L # | 67     |
| 20) cis-1,2-Dichloroethene     | 4.22  | 96  | 5956  | 3.276 ug/L   | 93     |
| 34) Trichloroethene            | 6.18  | 95  | 6386  | 3.737 ug/L   | 98     |
| 37) 1,2-Dichloropropane        | 6.32  | 63  | 8429  | 4.260 ug/L # | 90     |
| 39) cis-1,3-Dichloropropene    | 7.23  | 75  | 1880  | 0.666 ug/L # | 48     |
| 44) trans-1,3-Dichloropropene  | 7.85  | 75  | 1378  | 0.548 ug/L # | 67     |
| 46) Tetrachloroethene          | 8.22  | 164 | 5658  | 4.299 ug/L   | 97     |
| 49) Dibromochloromethane       | 8.22  | 129 | 5688  | 3.375 ug/L # | 11     |
| 52) Ethylbenzene               | 9.25  | 91  | 9836  | 1.276 ug/L   | 97     |
| 53) m,p-Xylene                 | 9.38  | 106 | 9856  | 3.457 ug/L   | 92     |
| 54) o-xylene                   | 9.78  | 106 | 3281  | 1.148 ug/L   | 100    |
| 59) 1,2,3-Trichloropropane     | 11.49 | 75  | 13028 | 5.517 ug/L   | 97     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU122018\  
Quantitation Report (Not Reviewed)

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ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0JG7ME

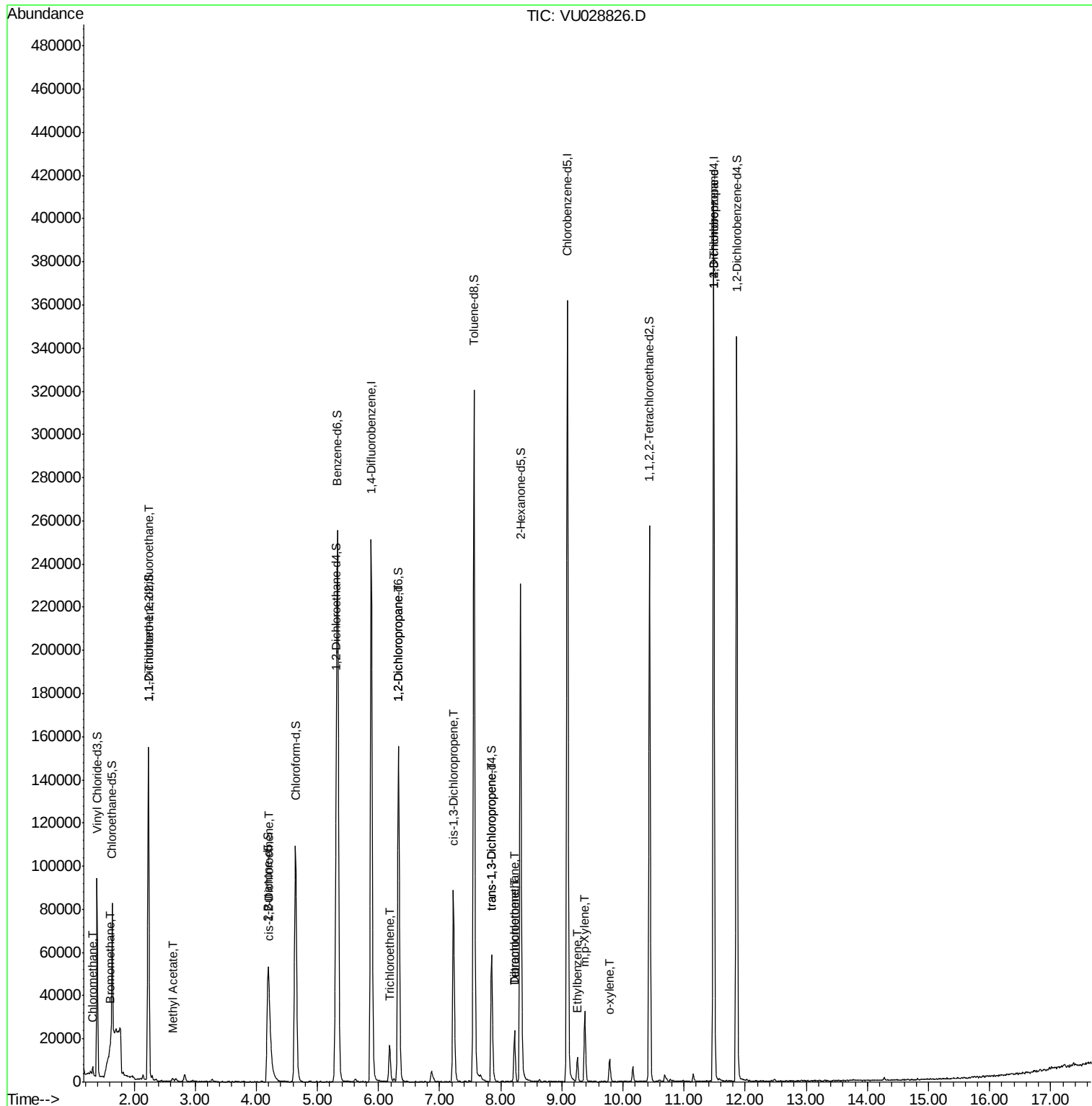
Quant Time: Dec 21 03:57:17 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122018WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Dec 21 03:50:07 2018  
Response via : Initial Calibration

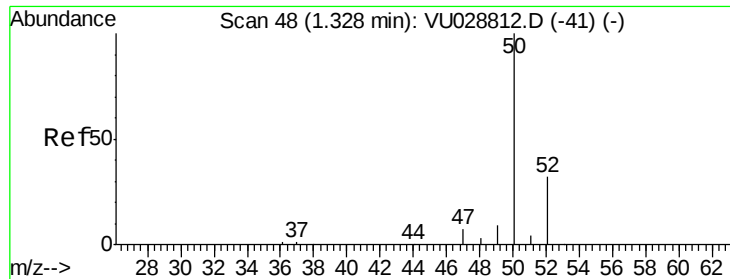
| Internal Standards                                                         | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                 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





#3

Chloromethane

Concen: 1.235 ug/L

RT: 1.32 min Scan# 46

Delta R.T. -0.01 min

Lab File: VU028826.D

Acq: 20 Dec 2018 15:54

Instrument :

MSVOA\_U

ClientSampleId :

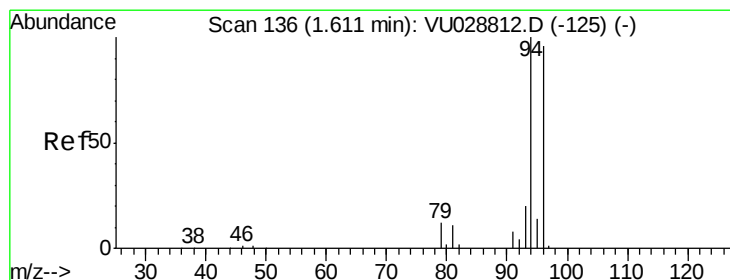
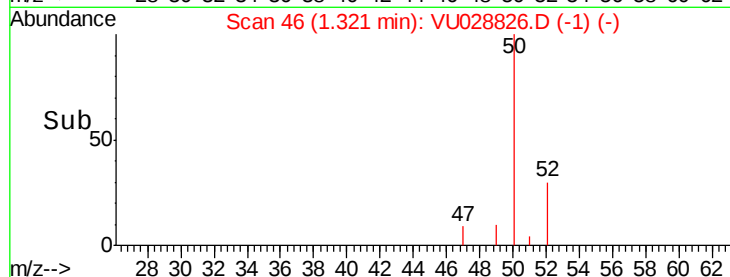
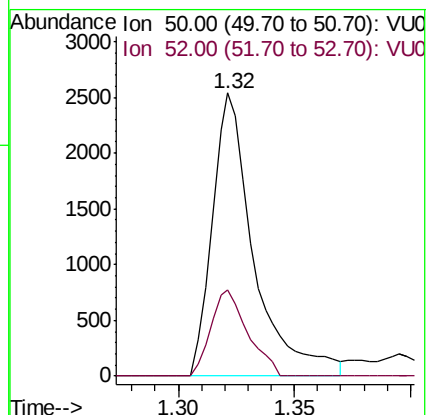
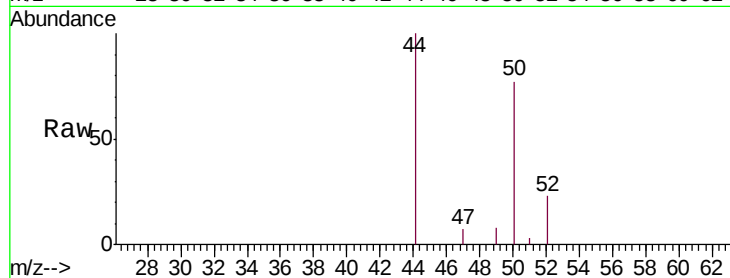
C0JG7ME

Tgt Ion: 50 Resp: 3163

Ion Ratio Lower Upper

50 100

52 30.3 22.3 41.3



#6

Bromomethane

Concen: 0.566 ug/L

RT: 1.59 min Scan# 131

Delta R.T. -0.02 min

Lab File: VU028826.D

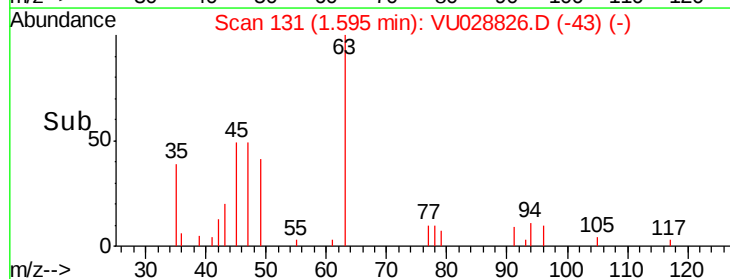
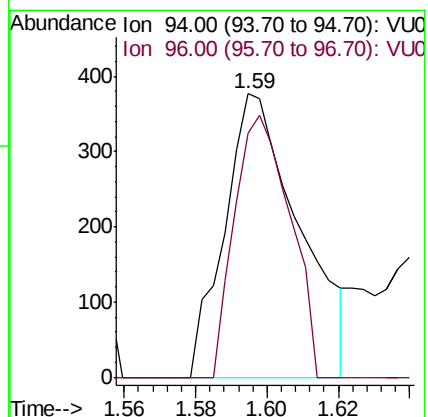
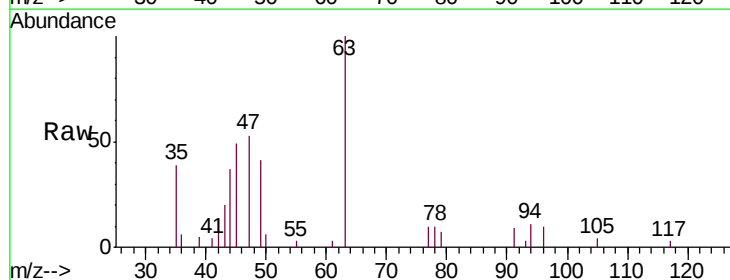
Acq: 20 Dec 2018 15:54

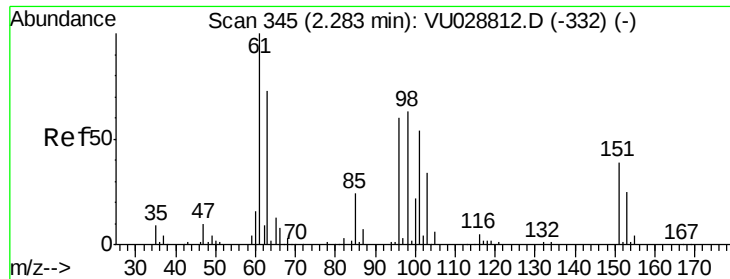
Tgt Ion: 94 Resp: 546

Ion Ratio Lower Upper

94 100

96 85.9 67.3 125.1





#10

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

Concen: 0.566 ug/L

RT: 2.23 min Scan# 330

Delta R.T. -0.05 min

Lab File: VU028826.D

Acq: 20 Dec 2018 15:54

Instrument :

MSVOA\_U

ClientSampleId :

C0JG7ME

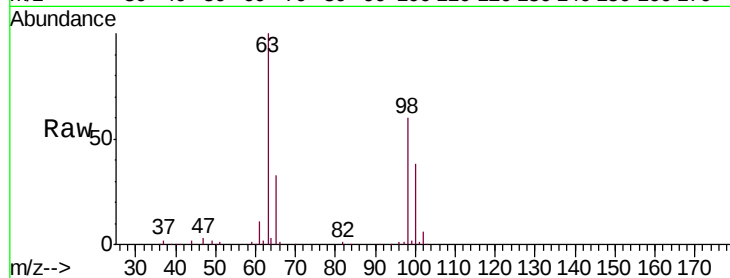
Tgt Ion: 101 Resp: 848

Ion Ratio Lower Upper

101 100

85 0.0 33.8 50.6#

151 0.0 59.4 89.0#

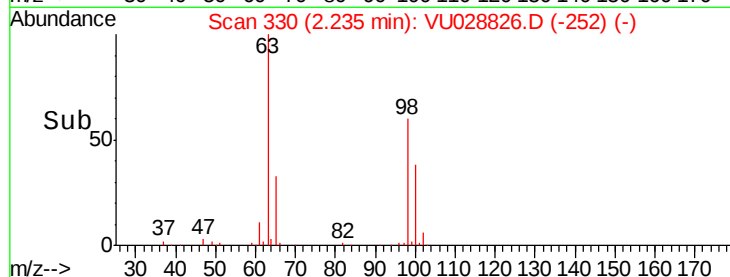


Abundance Ion 101.00 (100.70 to 101.70): V

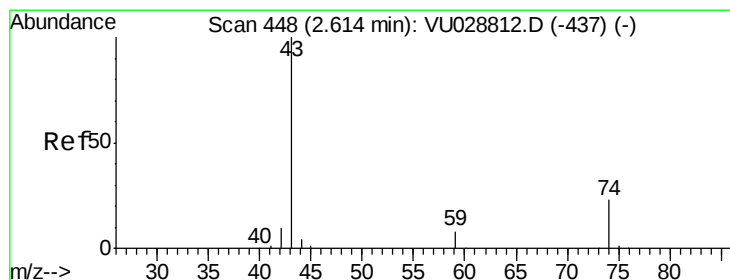
Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V

2.23



Time--> 2.20 2.22 2.24 2.26



#15

Methyl Acetate

Concen: 1.264 ug/L

RT: 2.63 min Scan# 453

Delta R.T. 0.02 min

Lab File: VU028826.D

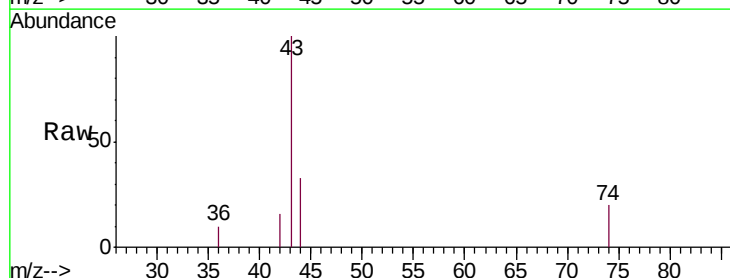
Acq: 20 Dec 2018 15:54

Tgt Ion: 43 Resp: 2605

Ion Ratio Lower Upper

43 100

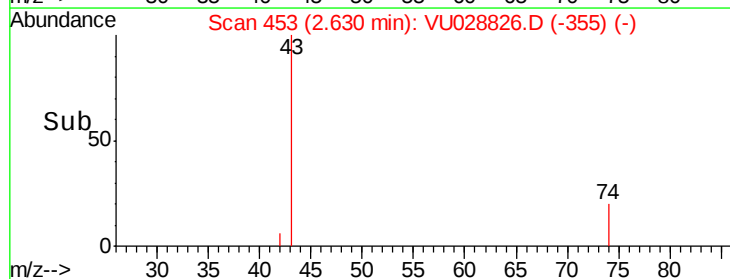
74 7.5 19.0 28.4#



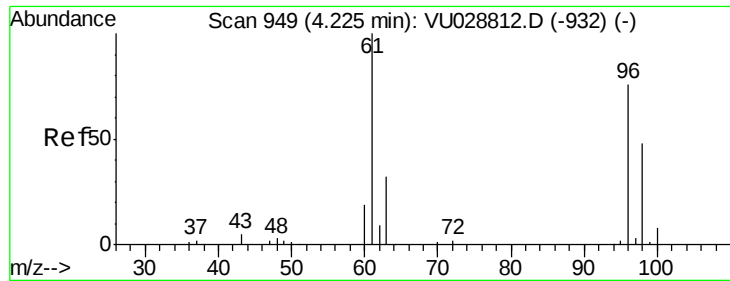
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

2.63



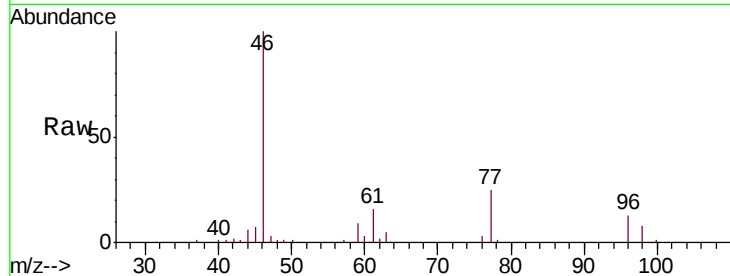
Time--> 2.60 2.65 2.70



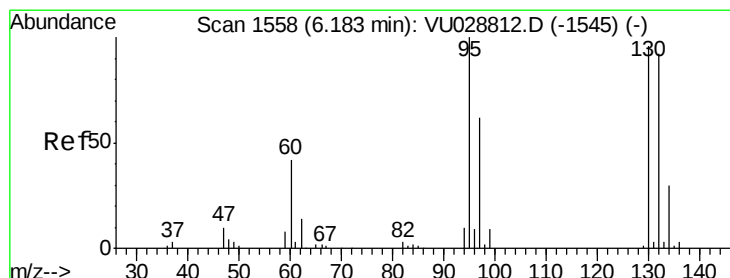
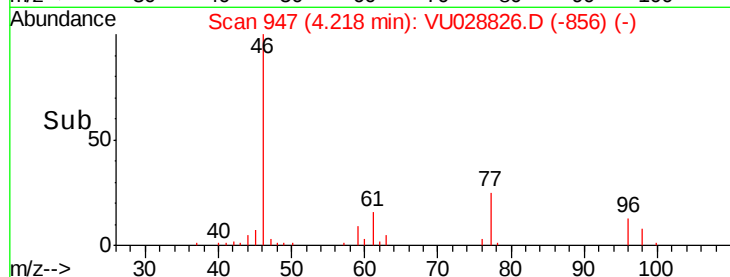
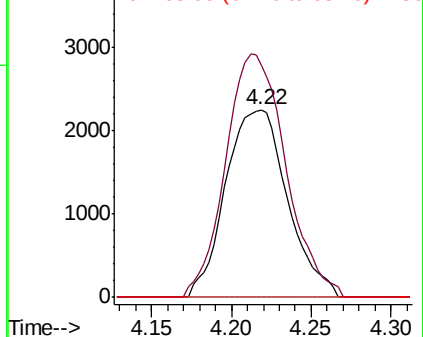
#20  
 cis-1,2-Dichloroethene  
 Concen: 3.276 ug/L  
 RT: 4.22 min Scan# 947  
 Delta R.T. -0.01 min  
 Lab File: VU028826.D  
 Acq: 20 Dec 2018 15:54

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0JG7ME

Tgt Ion: 96 Resp: 5956  
 Ion Ratio Lower Upper  
 96 100  
 61 123.8 92.1 171.1  
 68 0.0 0.0 0.0

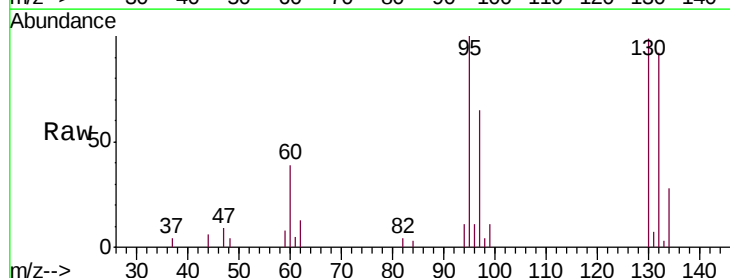


Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.00 (60.70 to 61.70): VU0  
 Ion 68.00 (67.70 to 68.70): VU0

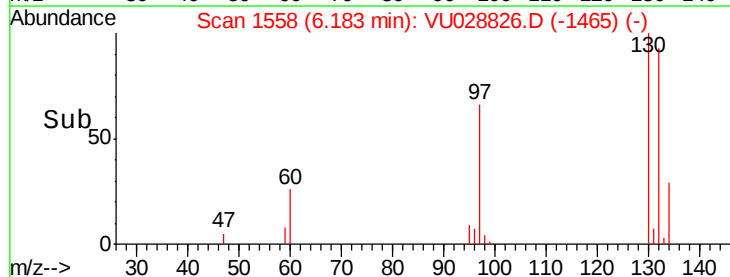
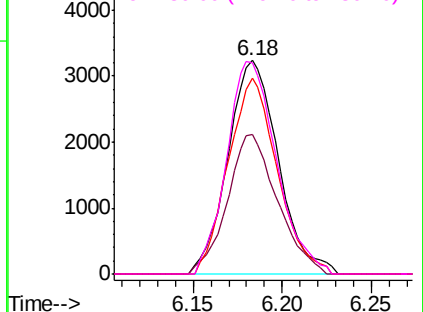


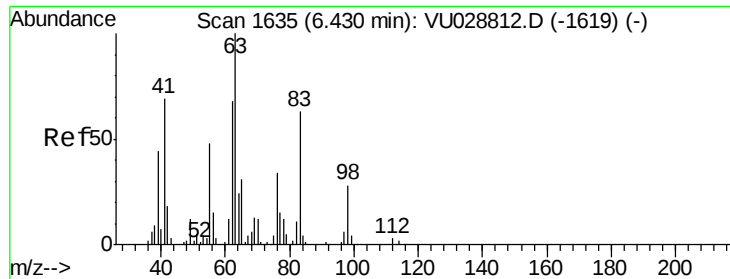
#34  
 Trichloroethene  
 Concen: 3.737 ug/L  
 RT: 6.18 min Scan# 1558  
 Delta R.T. 0.00 min  
 Lab File: VU028826.D  
 Acq: 20 Dec 2018 15:54

Tgt Ion: 95 Resp: 6386  
 Ion Ratio Lower Upper  
 95 100  
 97 65.4 43.3 80.3  
 132 91.9 64.2 119.2  
 130 98.6 67.1 124.7



Abundance Ion 95.00 (94.70 to 95.70): VU0  
 Ion 97.00 (96.70 to 97.70): VU0  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V

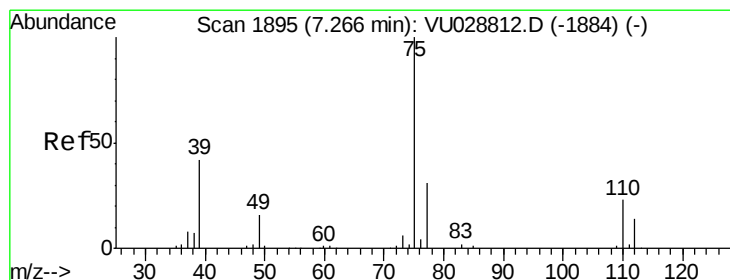
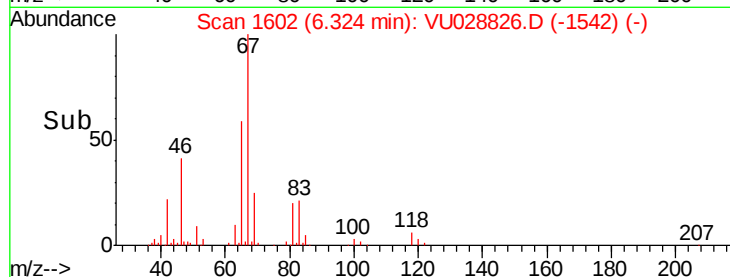
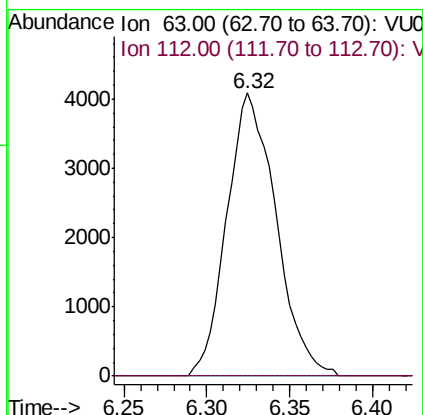
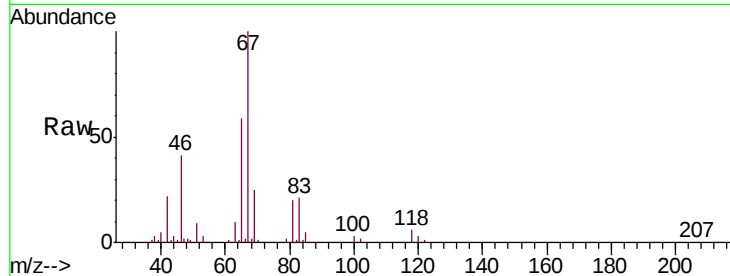




#37  
 1,2-Dichloropropane  
 Concen: 4.260 ug/L  
 RT: 6.32 min Scan# 1602  
 Delta R.T. -0.11 min  
 Lab File: VU028826.D  
 Acq: 20 Dec 2018 15:54

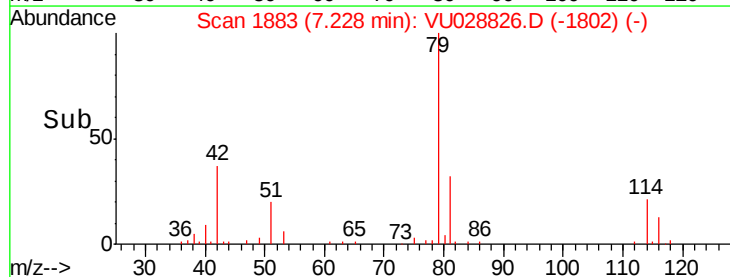
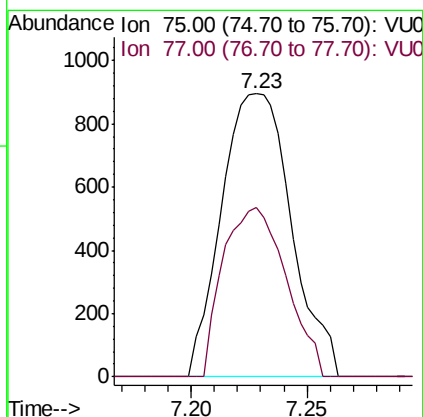
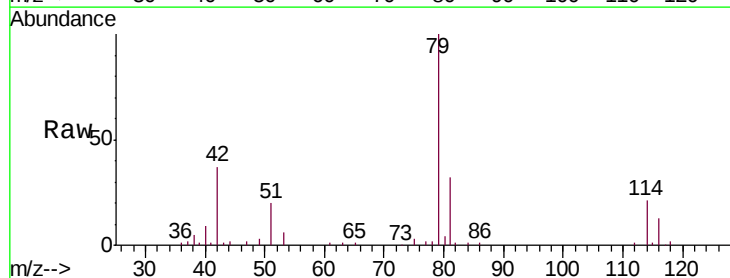
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0JG7ME

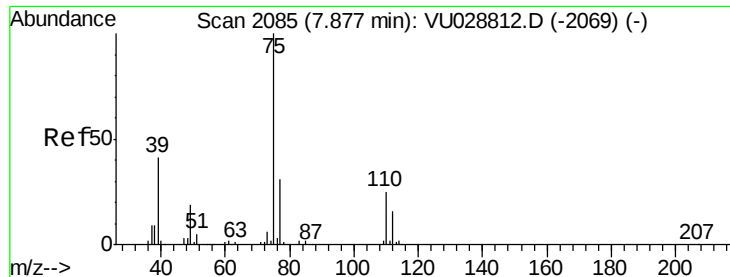
Tgt Ion: 63 Resp: 8429  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 2.7 4.1#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.666 ug/L  
 RT: 7.23 min Scan# 1883  
 Delta R.T. -0.04 min  
 Lab File: VU028826.D  
 Acq: 20 Dec 2018 15:54

Tgt Ion: 75 Resp: 1880  
 Ion Ratio Lower Upper  
 75 100  
 77 59.7 21.8 40.6#





#44

trans-1,3-Dichloropropene

Concen: 0.548 ug/L

RT: 7.85 min Scan# 2076

Delta R.T. -0.03 min

Lab File: VU028826.D

Acq: 20 Dec 2018 15:54

Instrument :

MSVOA\_U

ClientSampleId :

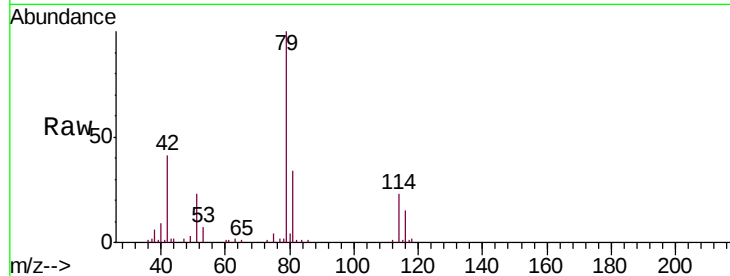
C0JG7ME

Tgt Ion: 75 Resp: 1378

Ion Ratio Lower Upper

75 100

77 49.2 21.8 40.6#



Abundance Ion 75.00 (74.70 to 75.70): VU028812.D (-2069) (-)

Ion 77.00 (76.70 to 77.70): VU028812.D (-2069) (-)

7.85

600

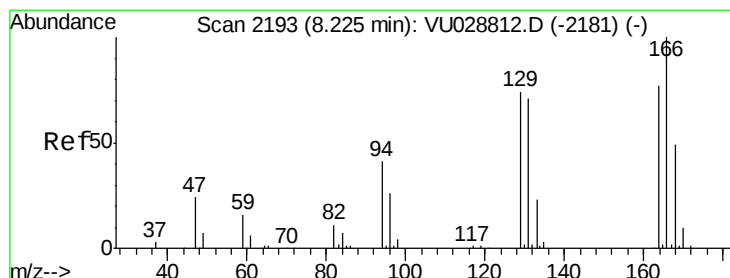
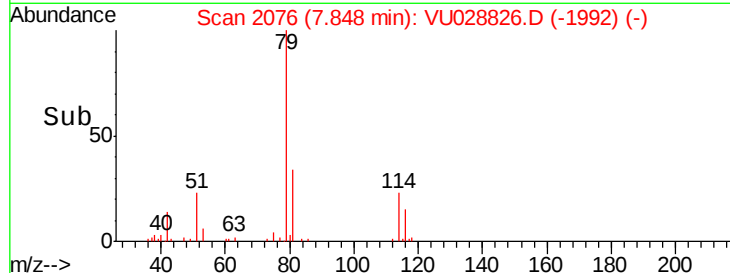
400

200

0

7.80 7.85 7.90

Time-->



#46

Tetrachloroethene

Concen: 4.299 ug/L

RT: 8.22 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU028826.D

Acq: 20 Dec 2018 15:54

Tgt Ion: 164 Resp: 5658

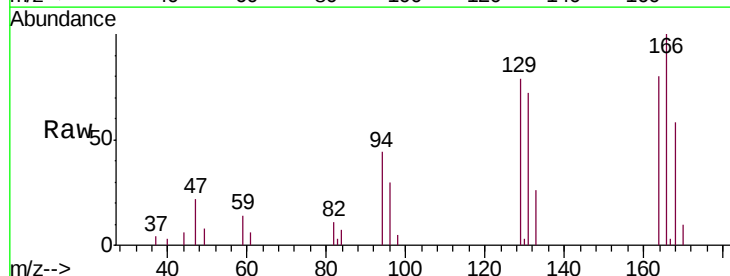
Ion Ratio Lower Upper

164 100

129 98.5 66.8 124.0

131 90.3 64.2 119.2

166 124.6 90.8 168.6



Abundance Ion 164.00 (163.70 to 164.70): VU028812.D (-2181) (-)

Ion 129.00 (128.70 to 129.70): VU028812.D (-2181) (-)

Ion 131.00 (130.70 to 131.70): VU028812.D (-2181) (-)

Ion 166.00 (165.70 to 166.70): VU028812.D (-2181) (-)

8.22

6000

5000

4000

3000

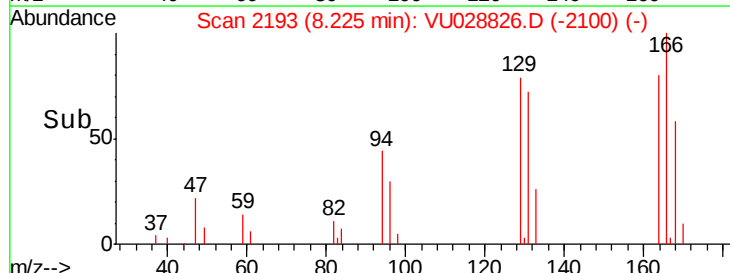
2000

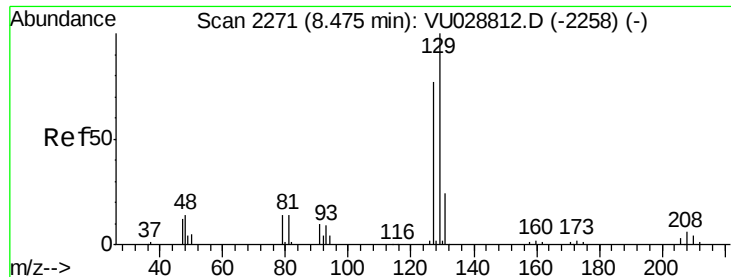
1000

0

8.20 8.25

Time-->





#49

Dibromochloromethane

Concen: 3.375 ug/L

RT: 8.22 min Scan# 2193

Delta R.T. -0.25 min

Lab File: VU028826.D

Acq: 20 Dec 2018 15:54

Instrument :

MSVOA\_U

ClientSampleId :

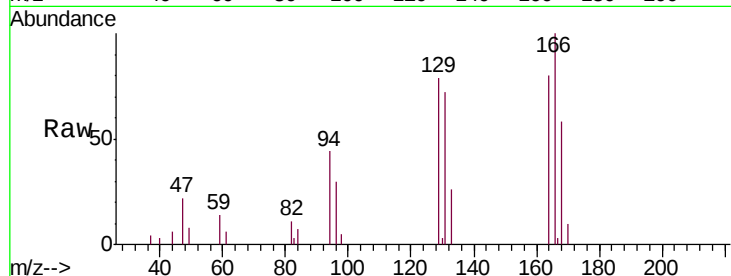
C0JG7ME

Tgt Ion:129 Resp: 5688

Ion Ratio Lower Upper

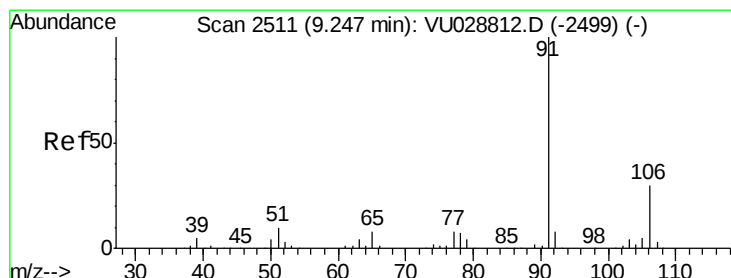
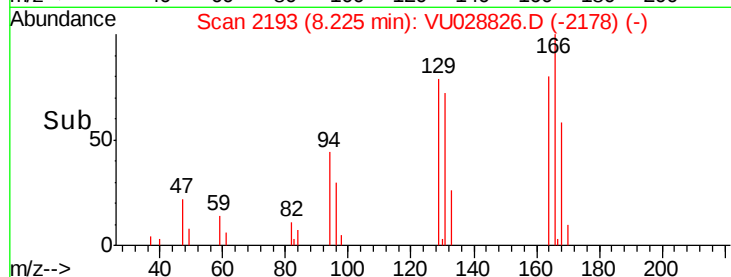
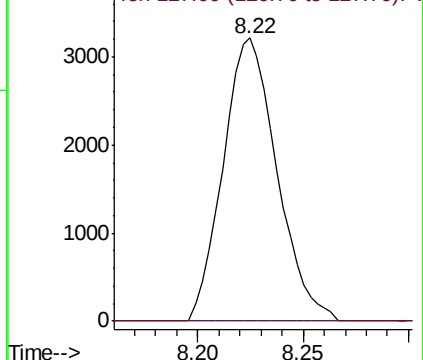
129 100

127 0.0 54.1 100.5#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#52

Ethylbenzene

Concen: 1.276 ug/L

RT: 9.25 min Scan# 2513

Delta R.T. 0.01 min

Lab File: VU028826.D

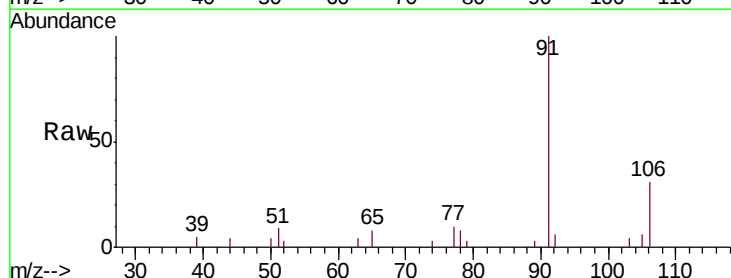
Acq: 20 Dec 2018 15:54

Tgt Ion: 91 Resp: 9836

Ion Ratio Lower Upper

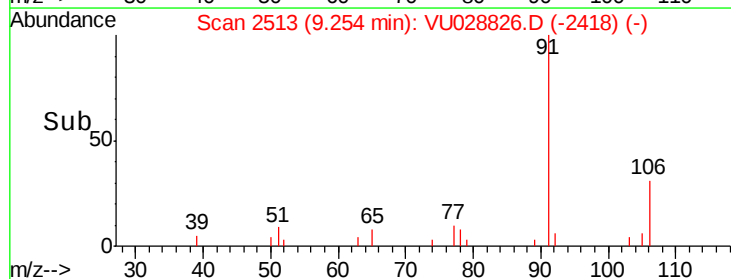
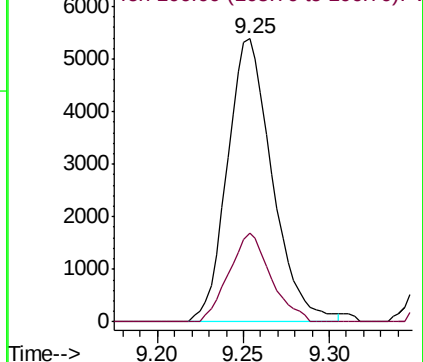
91 100

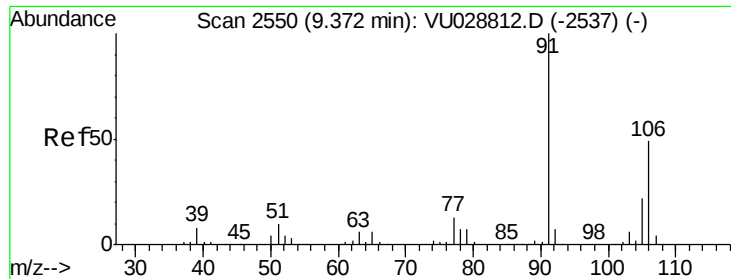
106 31.3 20.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 3.457 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VU028826.D

Acq: 20 Dec 2018 15:54

Instrument :

MSVOA\_U

ClientSampleId :

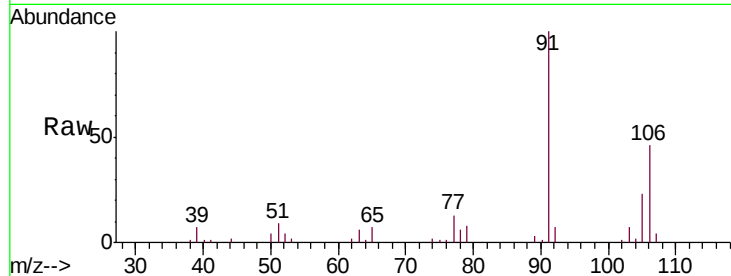
C0JG7ME

Tgt Ion:106 Resp: 9856

Ion Ratio Lower Upper

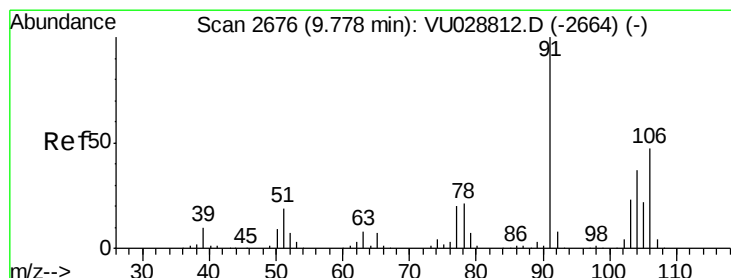
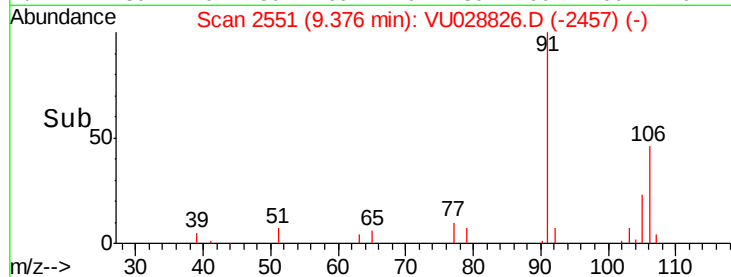
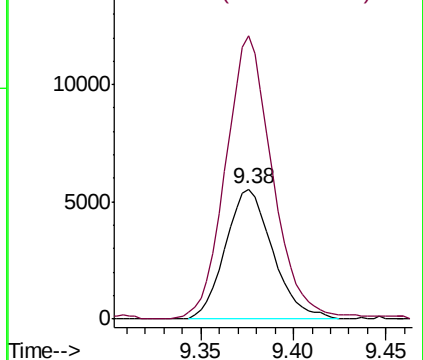
106 100

91 217.6 144.1 267.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 1.148 ug/L

RT: 9.78 min Scan# 2678

Delta R.T. 0.01 min

Lab File: VU028826.D

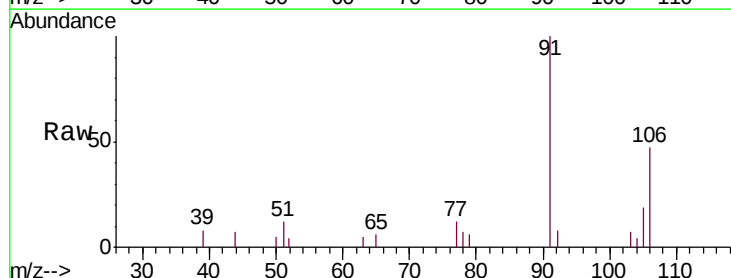
Acq: 20 Dec 2018 15:54

Tgt Ion:106 Resp: 3281

Ion Ratio Lower Upper

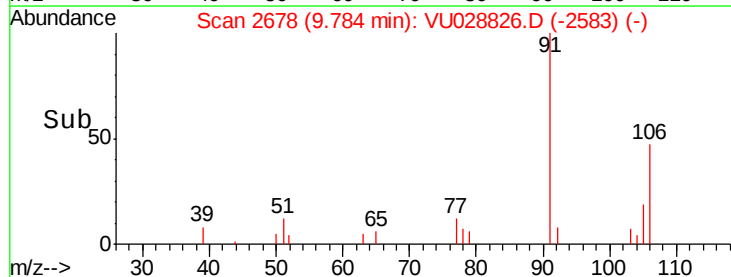
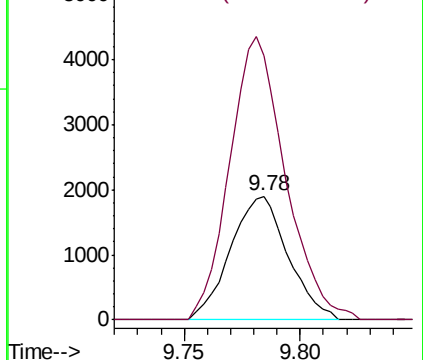
106 100

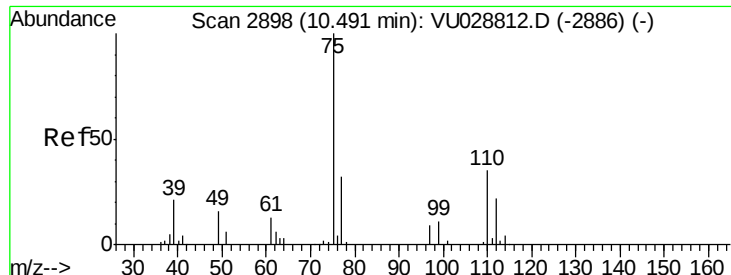
91 214.4 150.4 279.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#59

1,2,3-Trichloropropane

Concen: 5.517 ug/L

RT: 11.49 min Scan# 3207

Delta R.T. 0.99 min

Lab File: VU028826.D

Acq: 20 Dec 2018 15:54

Instrument :

MSVOA\_U

ClientSampleId :

C0JG7ME

Tgt Ion: 75 Resp: 13028

Ion Ratio Lower Upper

75 100

77 33.6 25.5 38.3

