

Data File : VU032306.D  
Acq On : 24 May 2019 12:15  
Operator : JC/SP  
Sample : K3001-14MSD 500X  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 61 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
E3YF7MSD

Quant Time: May 24 23:36:29 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM052419WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri May 24 23:32:32 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 796951   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 796735   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 349864   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 224979   | 54.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 108.02% |
| 7) Chloroethane-d5             | 1.67    | 69    | 205399   | 51.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 102.76% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 426166   | 51.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 103.16% |
| 21) 2-Butanone-d5              | 4.17    | 46    | 339064   | 85.31    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 85.31%  |
| 24) Chloroform-d               | 4.64    | 84    | 462101   | 43.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 87.02%  |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 290511   | 43.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 87.10%  |
| 32) Benzene-d6                 | 5.33    | 84    | 993549   | 48.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.96%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 297927   | 46.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 92.26%  |
| 41) Toluene-d8                 | 7.56    | 98    | 893203   | 48.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.20%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 133398   | 44.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 89.84%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 231605   | 85.30    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 85.30%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 454908   | 42.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 84.36%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 357184   | 48.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.16%  |

#### Target Compounds

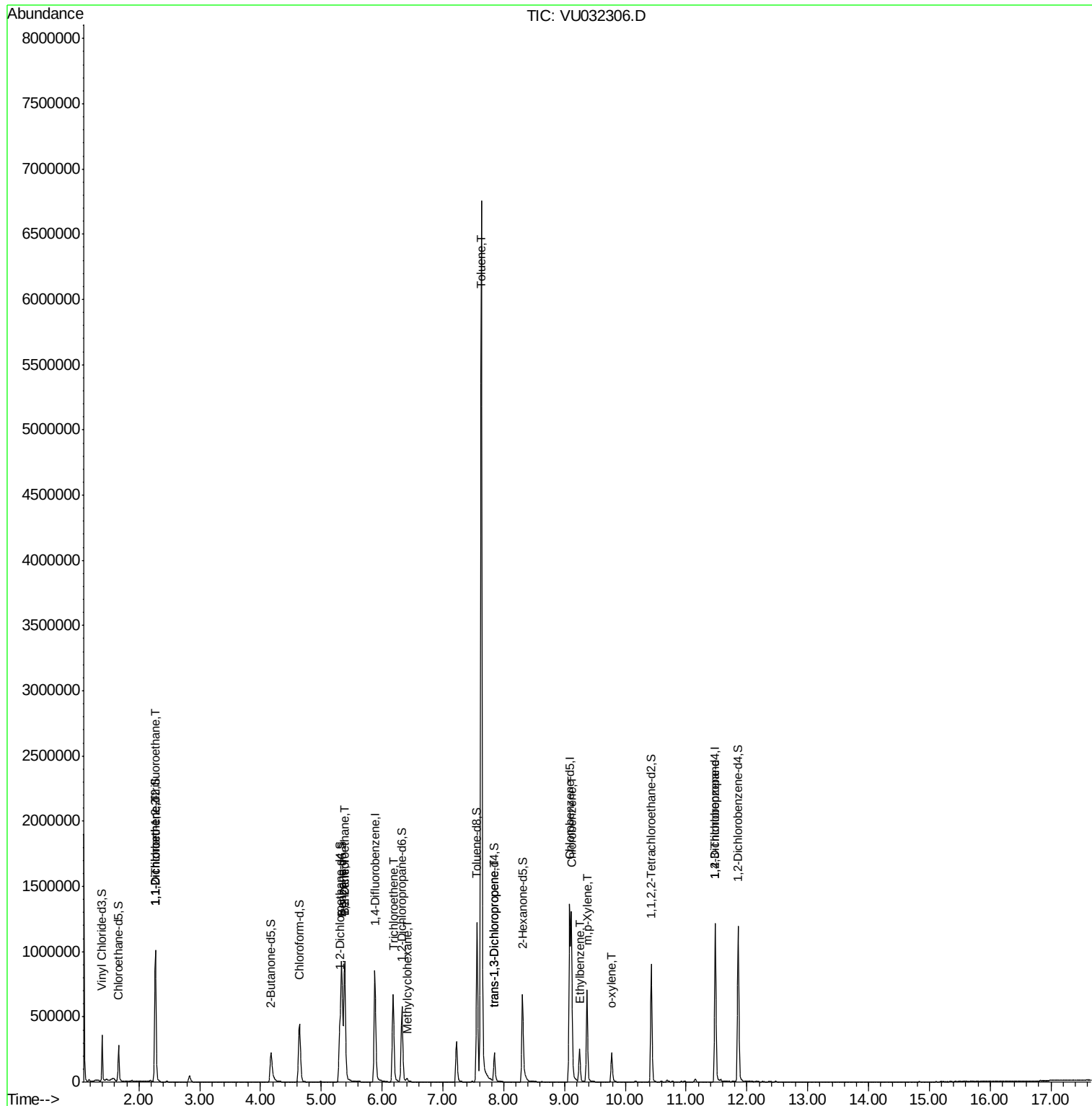
|                                |       |     |         |         |        | Qvalue |
|--------------------------------|-------|-----|---------|---------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101 | 4005    | 0.955   | ug/L # | 18     |
| 12) 1,1-Dichloroethene         | 2.28  | 96  | 214118  | 45.842  | ug/L   | 99     |
| 27) 1,2-Dichloroethane         | 5.38  | 62  | 7171    | 0.843   | ug/L # | 73     |
| 33) Benzene                    | 5.38  | 78  | 986958  | 43.344  | ug/L   | 100    |
| 34) Trichloroethene            | 6.18  | 95  | 243294  | 43.160  | ug/L   | 100    |
| 35) Methylcyclohexane          | 6.41  | 83  | 10027   | 1.468   | ug/L # | 80     |
| 42) Toluene                    | 7.63  | 91  | 5321254 | 221.742 | ug/L   | 99     |
| 44) trans-1,3-Dichloropropene  | 7.85  | 75  | 4837    | 0.630   | ug/L   | 87     |
| 51) Chlorobenzene              | 9.12  | 112 | 725263  | 45.091  | ug/L   | 99     |
| 52) Ethylbenzene               | 9.25  | 91  | 190173  | 7.797   | ug/L   | 98     |
| 53) m,p-Xylene                 | 9.37  | 106 | 211251  | 22.440  | ug/L   | 98     |
| 54) o-xylene                   | 9.77  | 106 | 65274   | 6.649   | ug/L   | 98     |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75  | 36163   | 4.122   | ug/L   | 92     |

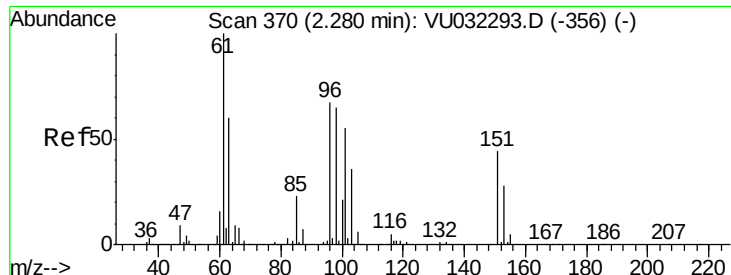
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VU032306.D  
Acq On : 24 May 2019 12:15  
Operator : JC/SP  
Sample : K3001-14MSD 500X  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 61 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
E3YF7MSD

Quant Time: May 24 23:36:29 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM052419WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri May 24 23:32:32 2019  
Response via : Initial Calibration





#10

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

Concen: 0.955 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU032306.D

Acq: 24 May 2019 12:15

Instrument :

MSVOA\_U

ClientSampleId :

E3YF7MSD

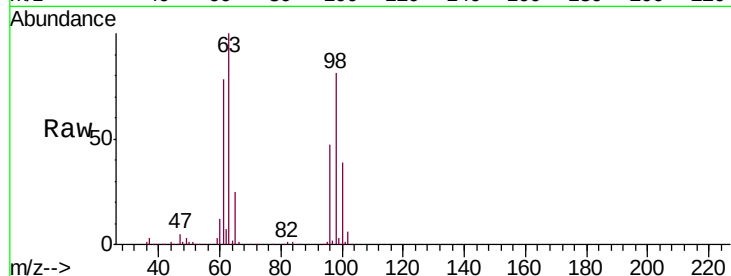
Tgt Ion:101 Resp: 4005

Ion Ratio Lower Upper

101 100

85 0.0 32.8 49.2#

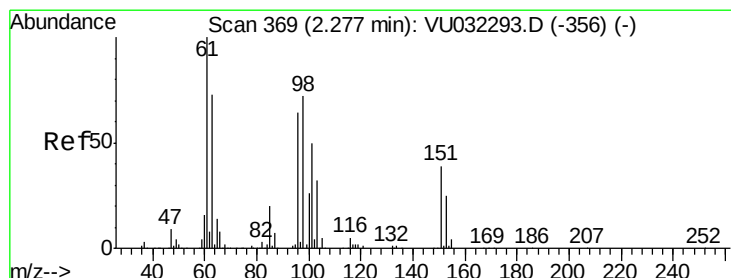
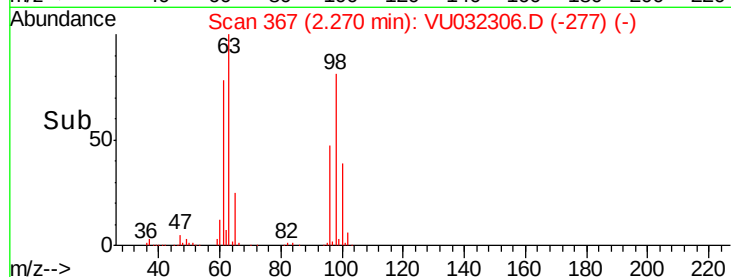
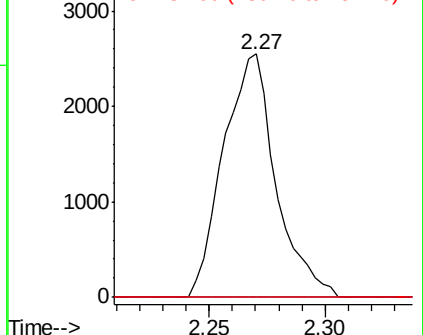
151 0.0 63.5 95.3#



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



#12

1,1-Dichloroethene

Concen: 45.842 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU032306.D

Acq: 24 May 2019 12:15

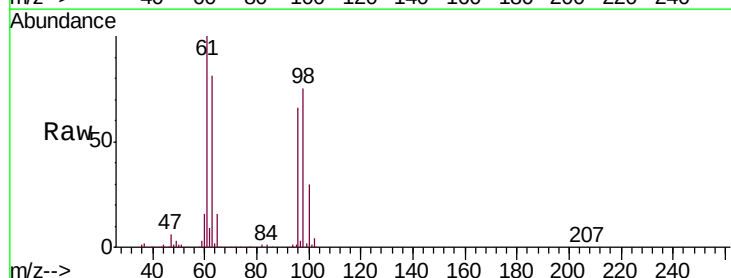
Tgt Ion: 96 Resp: 214118

Ion Ratio Lower Upper

96 100

61 152.2 108.0 200.6

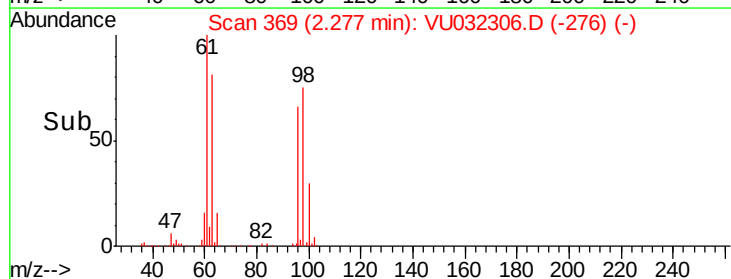
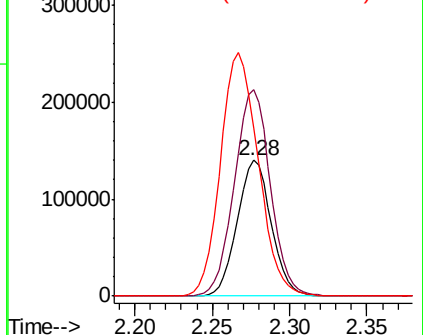
63 123.2 85.5 158.7

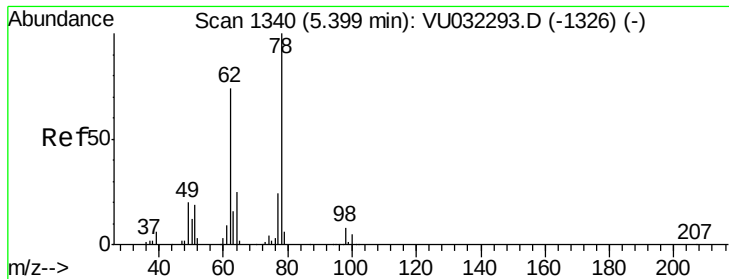


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0

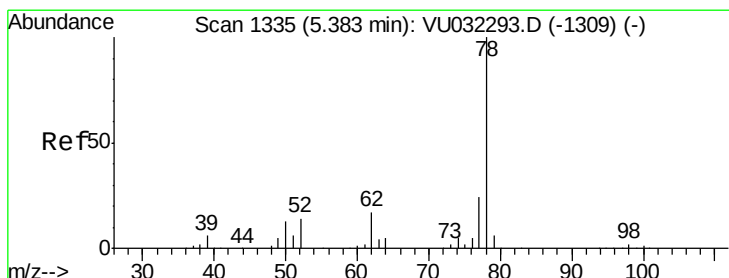
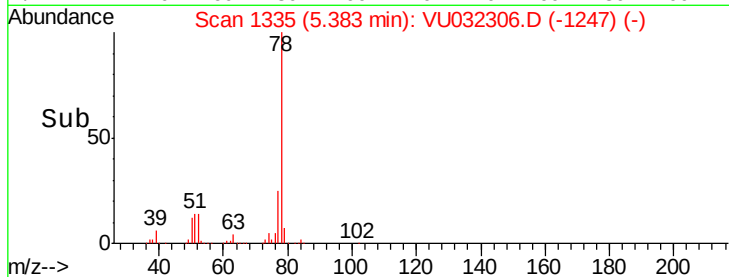
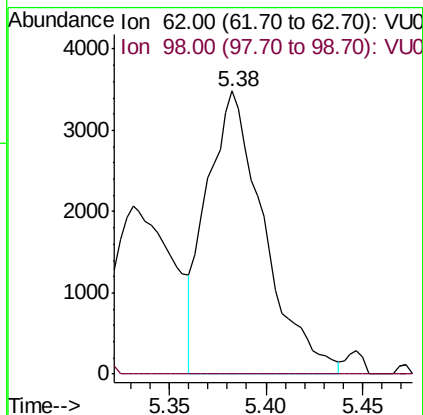
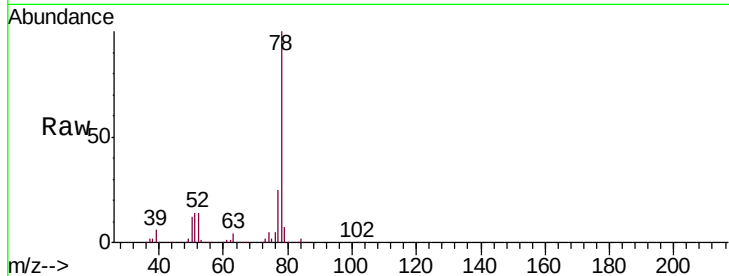




#27  
 1,2-Dichloroethane  
 Concen: 0.843 ug/L  
 RT: 5.38 min Scan# 1335  
 Delta R.T. -0.02 min  
 Lab File: VU032306.D  
 Acq: 24 May 2019 12:15

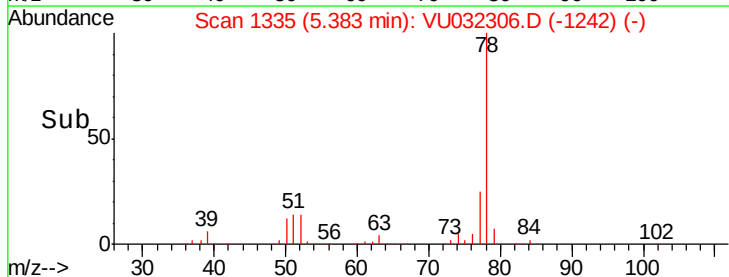
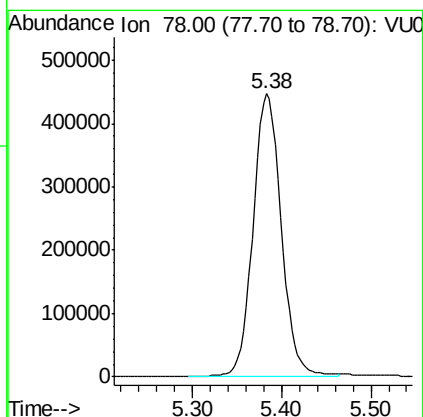
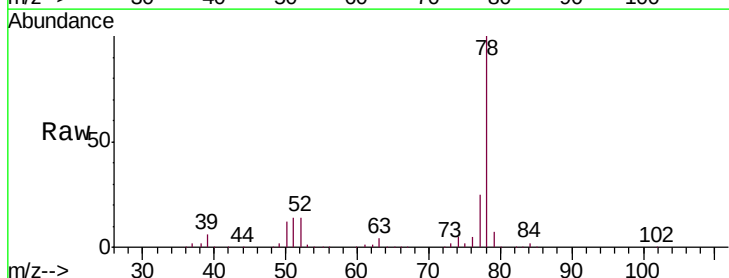
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 E3YF7MSD

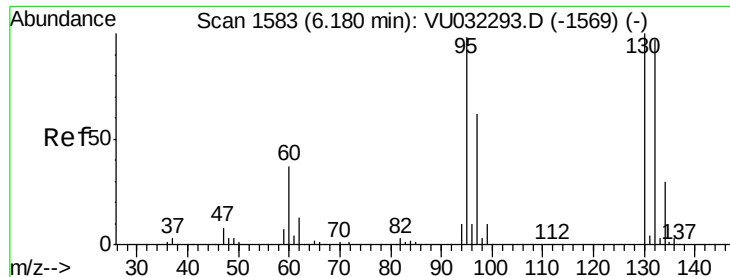
Tgt Ion: 62 Resp: 7171  
 Ion Ratio Lower Upper  
 62 100  
 98 0.0 7.9 11.9#



#33  
 Benzene  
 Concen: 43.344 ug/L  
 RT: 5.38 min Scan# 1335  
 Delta R.T. 0.00 min  
 Lab File: VU032306.D  
 Acq: 24 May 2019 12:15

Tgt Ion: 78 Resp: 986958





#34

Trichloroethene

Concen: 43.160 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032306.D

Acq: 24 May 2019 12:15

Instrument :

MSVOA\_U

ClientSampleId :

E3YF7MSD

Tgt Ion: 95 Resp: 243294

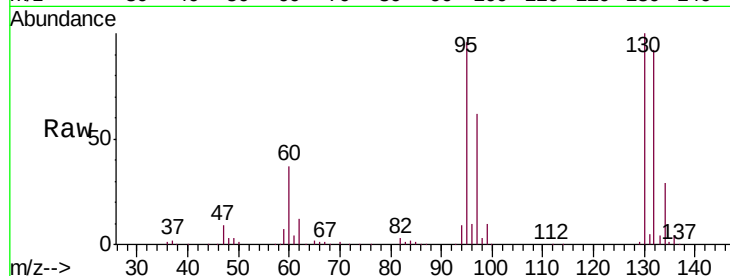
Ion Ratio Lower Upper

95 100

97 64.5 45.3 84.1

132 96.4 68.0 126.2

130 104.5 73.2 136.0

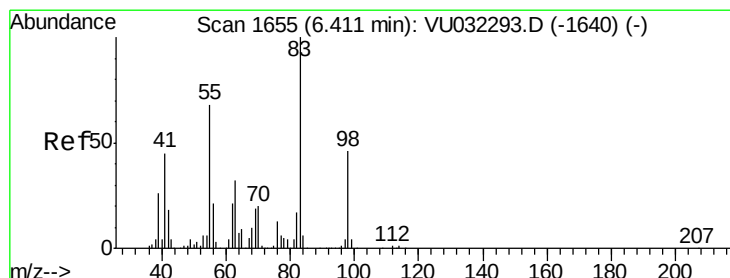
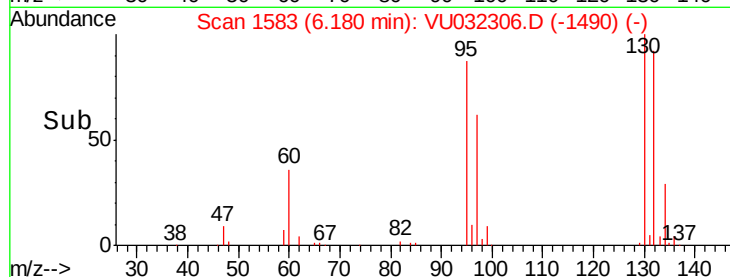
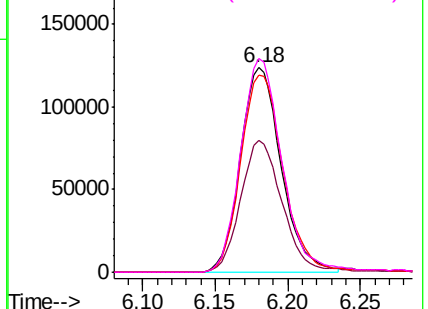


Abundance Ion 95.00 (94.70 to 95.70): VU032293.D (-1569) (-)

Ion 97.00 (96.70 to 97.70): VU032293.D (-1569) (-)

Ion 132.00 (131.70 to 132.70): VU032293.D (-1569) (-)

Ion 130.00 (129.70 to 130.70): VU032293.D (-1569) (-)



#35

Methylcyclohexane

Concen: 1.468 ug/L

RT: 6.41 min Scan# 1656

Delta R.T. 0.00 min

Lab File: VU032306.D

Acq: 24 May 2019 12:15

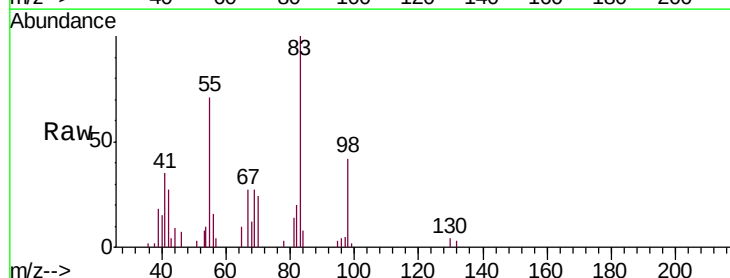
Tgt Ion: 83 Resp: 10027

Ion Ratio Lower Upper

83 100

55 78.9 56.1 84.1

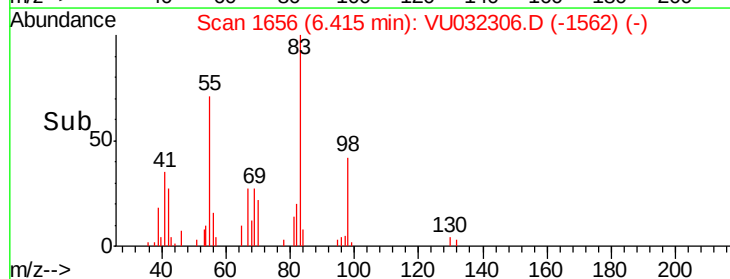
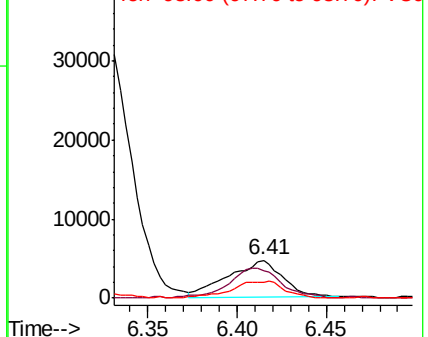
98 24.1 36.8 55.2#

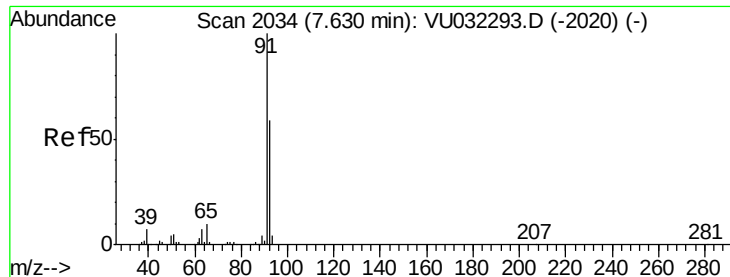


Abundance Ion 83.00 (82.70 to 83.70): VU032293.D (-1640) (-)

Ion 55.00 (54.70 to 55.70): VU032293.D (-1640) (-)

Ion 98.00 (97.70 to 98.70): VU032293.D (-1640) (-)





#42

Toluene

Concen: 221.742 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. 0.00 min

Lab File: VU032306.D

Acq: 24 May 2019 12:15

Instrument :

MSVOA\_U

ClientSampleId :

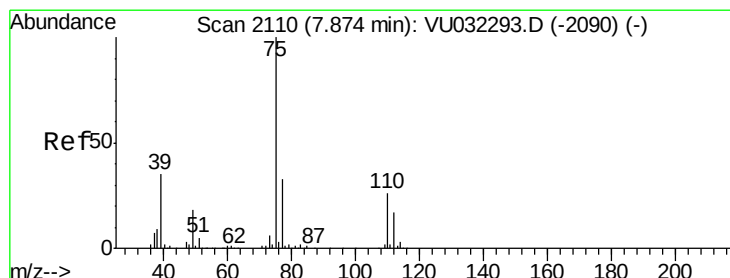
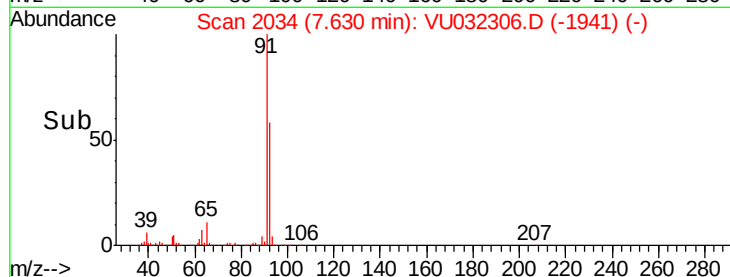
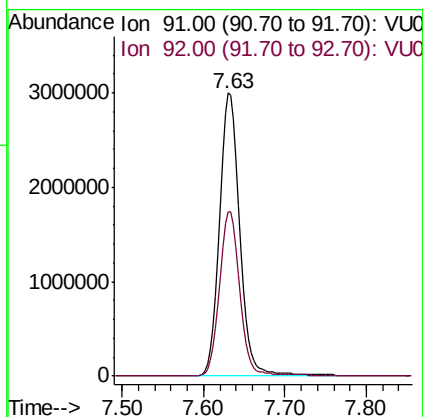
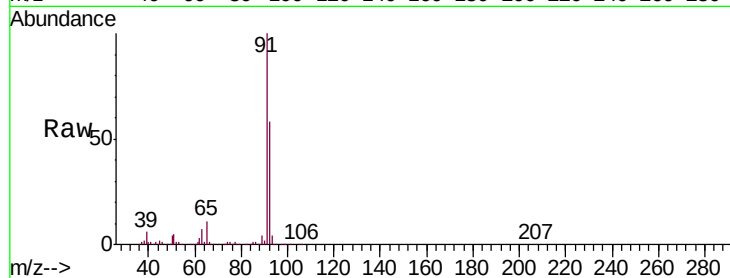
E3YF7MSD

Tgt Ion: 91 Resp: 5321254

Ion Ratio Lower Upper

91 100

92 58.2 40.3 74.9



#44

trans-1,3-Dichloropropene

Concen: 0.630 ug/L

RT: 7.85 min Scan# 2101

Delta R.T. -0.03 min

Lab File: VU032306.D

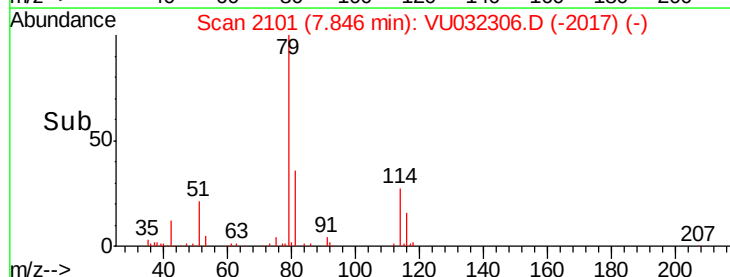
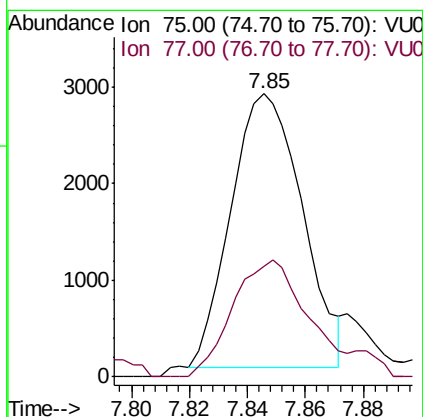
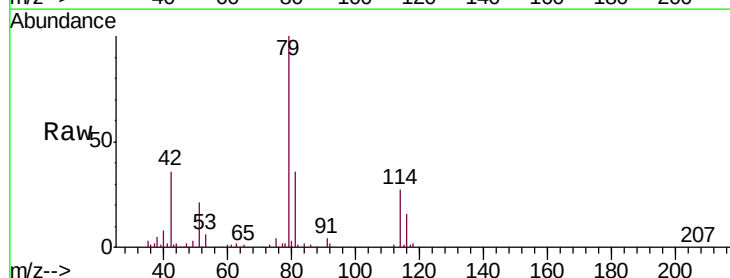
Acq: 24 May 2019 12:15

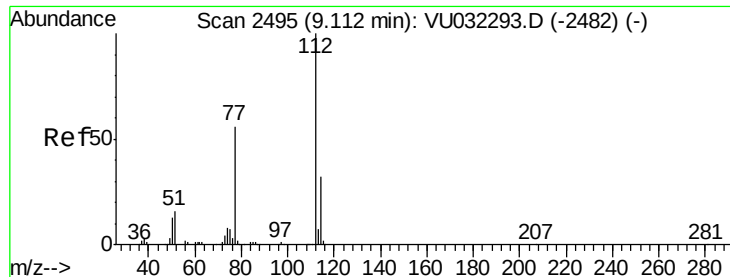
Tgt Ion: 75 Resp: 4837

Ion Ratio Lower Upper

75 100

77 39.0 22.4 41.6





#51

Chlorobenzene

Concen: 45.091 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU032306.D

Acq: 24 May 2019 12:15

Instrument :

MSVOA\_U

ClientSampleId :

E3YF7MSD

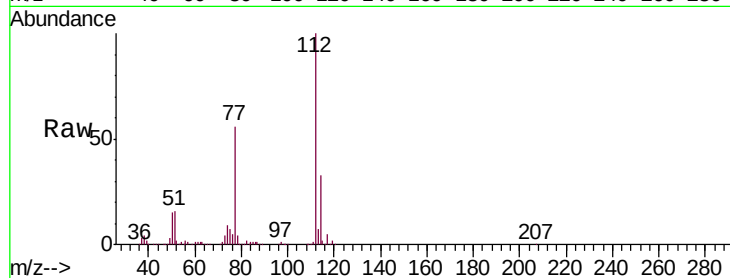
Tgt Ion: 112 Resp: 725263

Ion Ratio Lower Upper

112 100

114 32.6 22.5 41.7

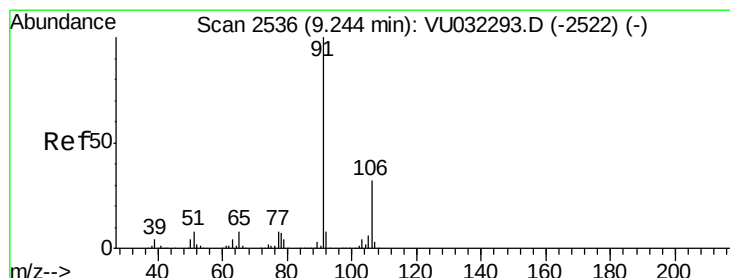
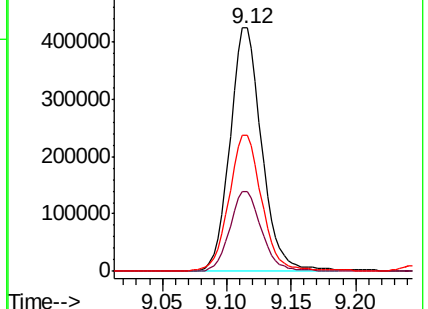
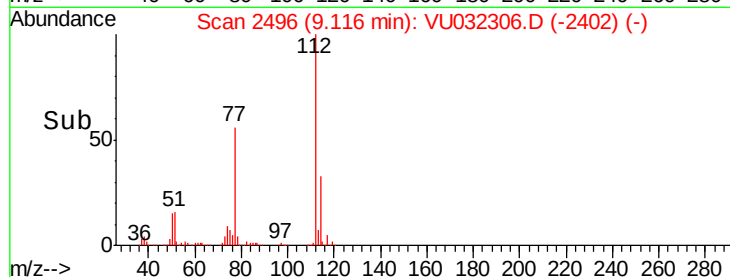
77 56.1 45.8 68.6



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU0



#52

Ethylbenzene

Concen: 7.797 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU032306.D

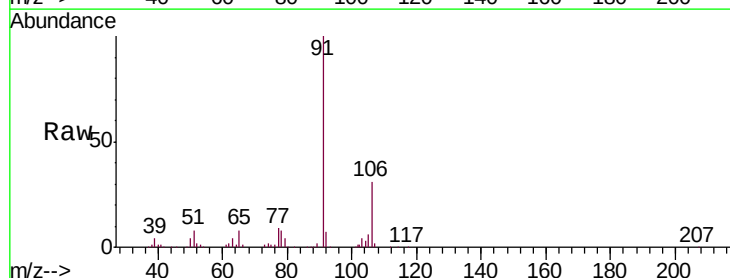
Acq: 24 May 2019 12:15

Tgt Ion: 91 Resp: 190173

Ion Ratio Lower Upper

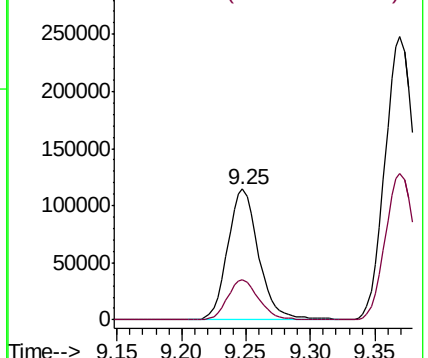
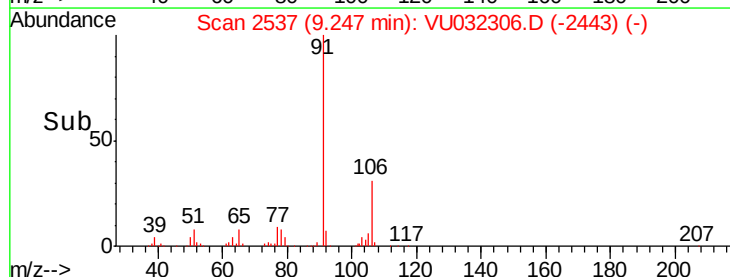
91 100

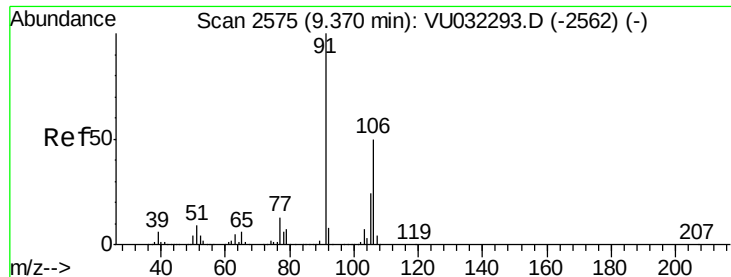
106 30.5 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 22.440 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU032306.D

Acq: 24 May 2019 12:15

Instrument :

MSVOA\_U

ClientSampleId :

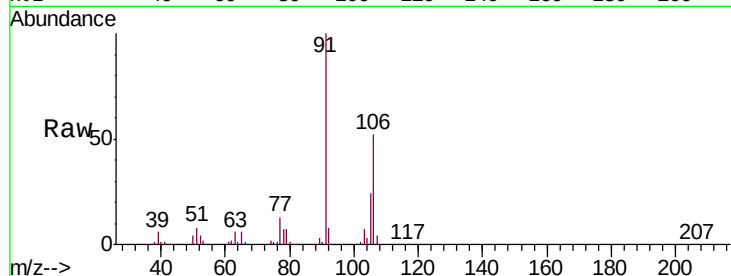
E3YF7MSD

Tgt Ion:106 Resp: 211251

Ion Ratio Lower Upper

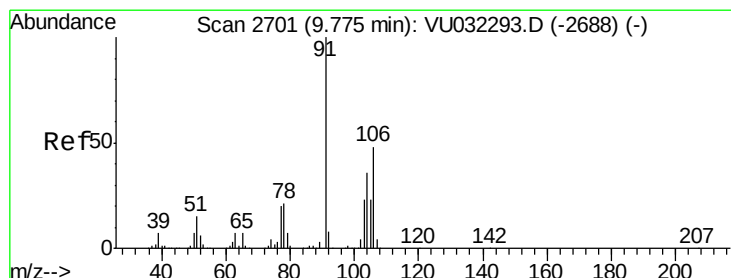
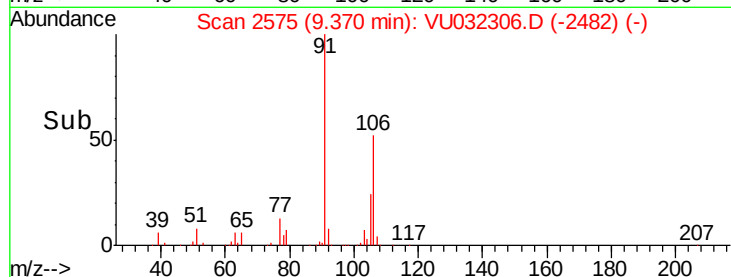
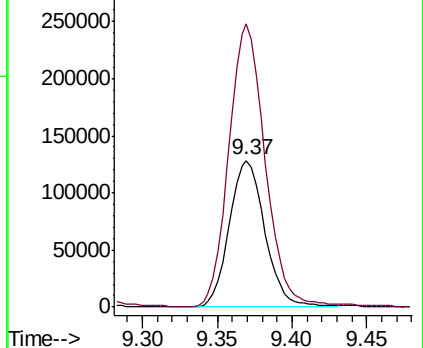
106 100

91 192.6 136.5 253.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 6.649 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU032306.D

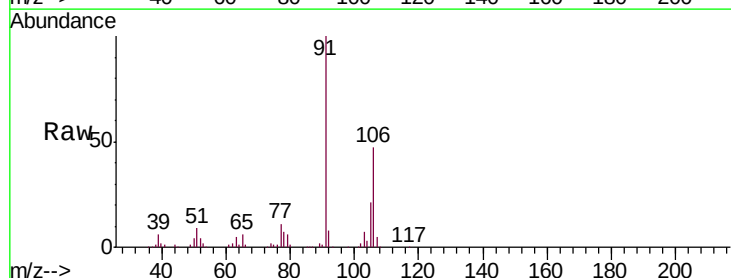
Acq: 24 May 2019 12:15

Tgt Ion:106 Resp: 65274

Ion Ratio Lower Upper

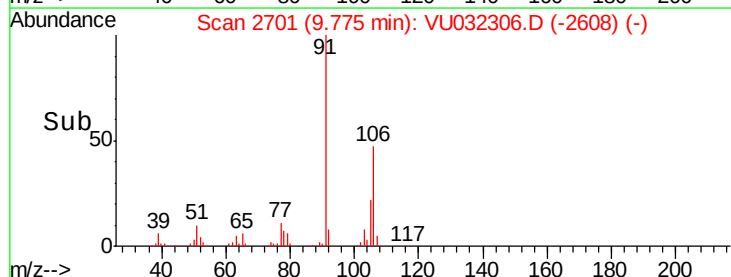
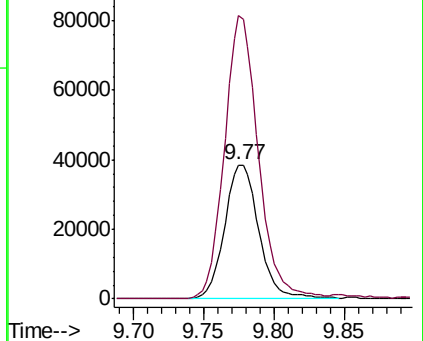
106 100

91 211.3 150.3 279.1

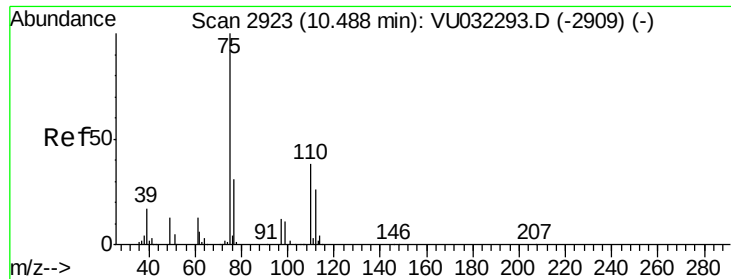


Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0







#59

1,2,3-Trichloropropane

Concen: 4.122 ug/L

RT: 11.48 min Scan# 3231

Delta R.T. 0.99 min

Lab File: VU032306.D

Acq: 24 May 2019 12:15

Instrument :

MSVOA\_U

ClientSampleId :

E3YF7MSD

Tgt Ion: 75 Resp: 36163

Ion Ratio Lower Upper

75 100

77 36.5 25.7 38.5

