

Data File : VU033407.D  
Acq On : 25 Jul 2019 13:58  
Operator : JC/SP  
Sample : K3957-07MS  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
F2A12MS

Quant Time: Jul 26 04:37:47 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071219WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Jul 26 04:32:42 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 274264   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 281984   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 122818   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 78557    | 37.84    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 75.68% |
| 7) Chloroethane-d5             | 1.67    | 69    | 79368    | 44.75    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 89.50% |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 163022   | 43.29    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 86.58% |
| 21) 2-Butanone-d5              | 4.15    | 46    | 125104   | 95.10    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 95.10% |
| 24) Chloroform-d               | 4.62    | 84    | 153984   | 44.26    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.52% |
| 26) 1,2-Dichloroethane-d4      | 5.29    | 65    | 107587   | 48.21    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.42% |
| 32) Benzene-d6                 | 5.32    | 84    | 302945   | 43.79    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 87.58% |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 103713   | 46.80    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 93.60% |
| 41) Toluene-d8                 | 7.55    | 98    | 268389   | 41.14    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 82.28% |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 46069    | 42.40    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 84.80% |
| 47) 2-Hexanone-d5              | 8.30    | 63    | 92433    | 92.53    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 92.53% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 162201   | 48.36    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.72% |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 108251   | 49.42    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.84% |

#### Target Compounds

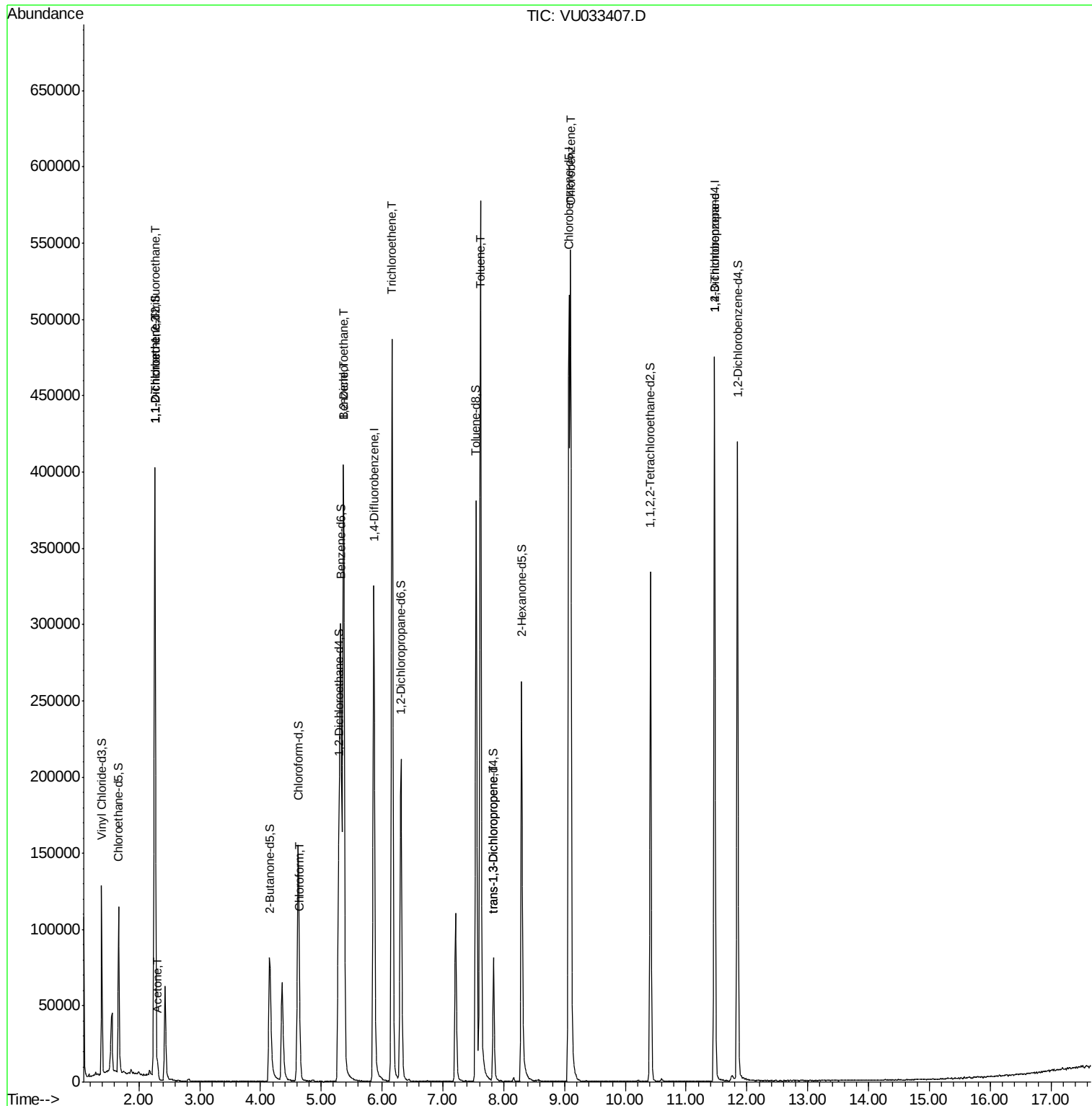
|                                |       |     |        |              | Qvalue |
|--------------------------------|-------|-----|--------|--------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.25  | 101 | 1093   | 0.584 ug/L # | 21     |
| 12) 1,1-Dichloroethene         | 2.27  | 96  | 88641  | 48.421 ug/L  | 91     |
| 13) Acetone                    | 2.31  | 43  | 9451   | 5.750 ug/L   | 96     |
| 25) Chloroform                 | 4.65  | 83  | 8074   | 2.087 ug/L   | 88     |
| 27) 1,2-Dichloroethane         | 5.37  | 62  | 4069   | 1.359 ug/L # | 76     |
| 33) Benzene                    | 5.37  | 78  | 405554 | 49.317 ug/L  | 100    |
| 34) Trichloroethene            | 6.16  | 95  | 169898 | 78.999 ug/L  | 99     |
| 42) Toluene                    | 7.62  | 91  | 442098 | 49.866 ug/L  | 100    |
| 44) trans-1,3-Dichloropropene  | 7.83  | 75  | 2183   | 0.708 ug/L   | 94     |
| 51) Chlorobenzene              | 9.10  | 112 | 284152 | 49.104 ug/L  | 99     |
| 59) 1,2,3-Trichloropropane     | 11.47 | 75  | 15287  | 5.265 ug/L   | 93     |

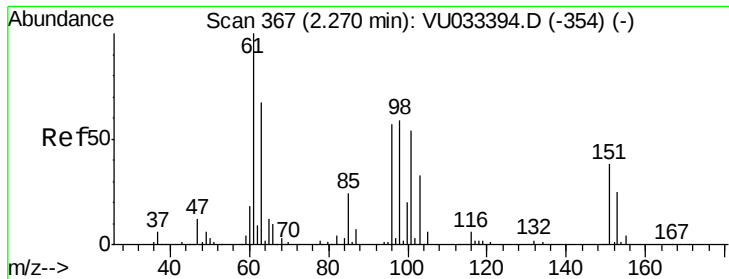
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Fri Jul 26 04:32:42 2019  
Response via : Initial Calibration





#10

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

Concen: 0.584 ug/L

RT: 2.25 min Scan# 362

Delta R.T. -0.02 min

Lab File: VU033407.D

Acq: 25 Jul 2019 13:58

Instrument :

MSVOA\_U

ClientSampleId :

F2A12MS

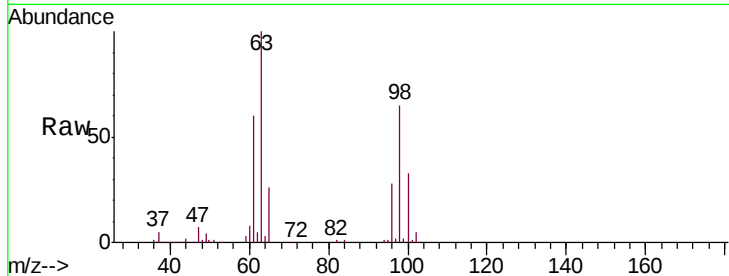
Tgt Ion: 101 Resp: 1093

Ion Ratio Lower Upper

101 100

85 0.0 35.8 53.8#

151 0.0 56.7 85.1#



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

800

600

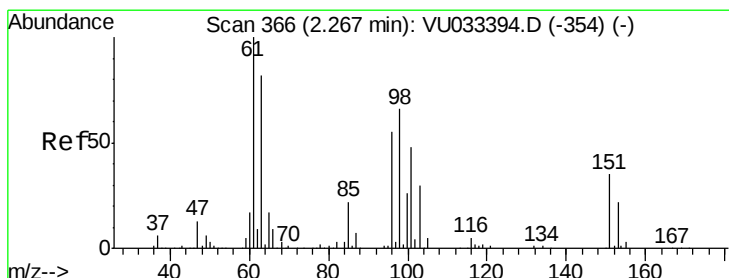
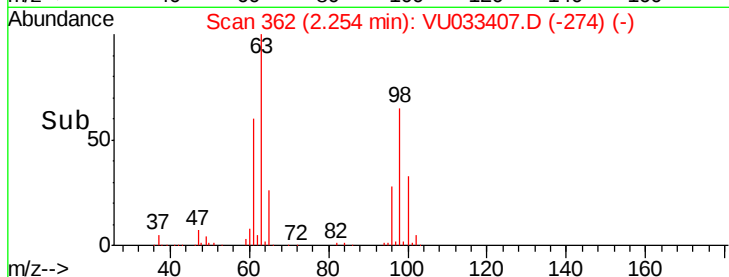
400

200

0

2.22 2.24 2.26 2.28 2.30

Time-->



#12

1,1-Dichloroethene

Concen: 48.421 ug/L

RT: 2.27 min Scan# 366

Delta R.T. 0.00 min

Lab File: VU033407.D

Acq: 25 Jul 2019 13:58

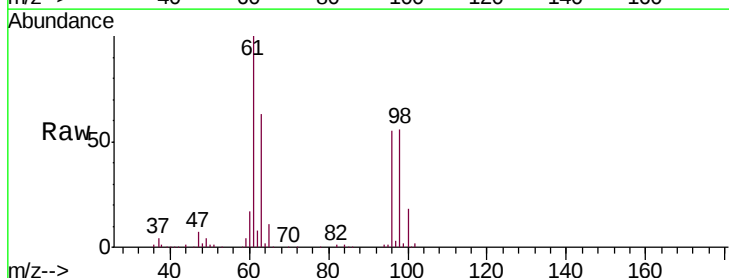
Tgt Ion: 96 Resp: 88641

Ion Ratio Lower Upper

96 100

61 180.4 126.1 234.1

63 114.4 96.8 179.8



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

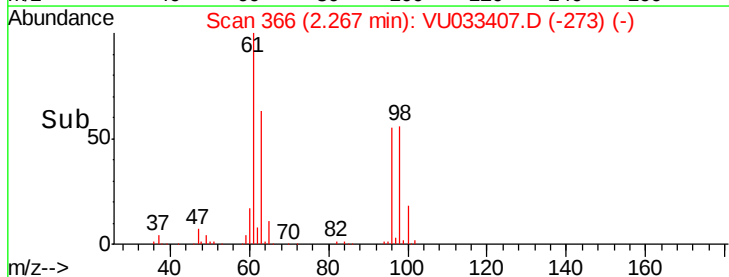
100000

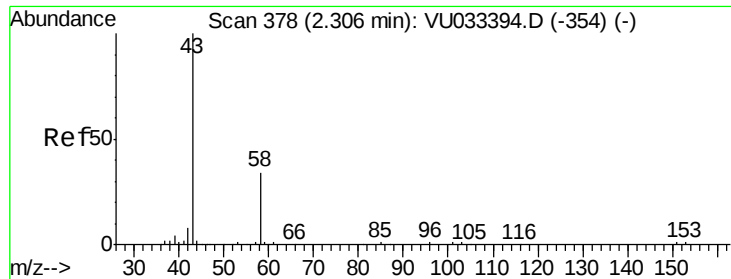
50000

0

2.20 2.25 2.30 2.35

Time-->





#13

Acetone

Concen: 5.750 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VU033407.D

Acq: 25 Jul 2019 13:58

Instrument :

MSVOA\_U

ClientSampleId :

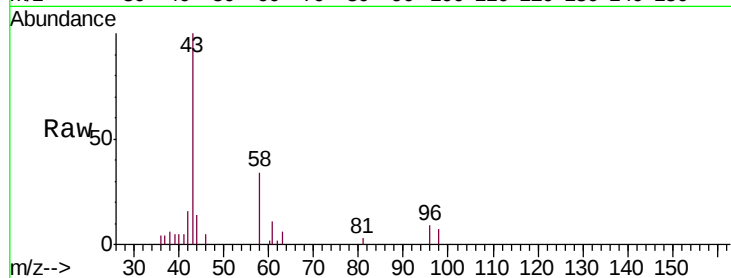
F2A12MS

Tgt Ion: 43 Resp: 9451

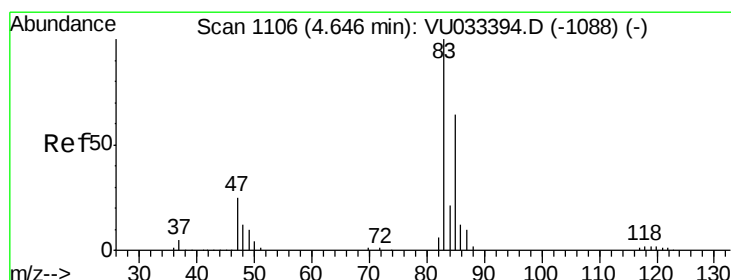
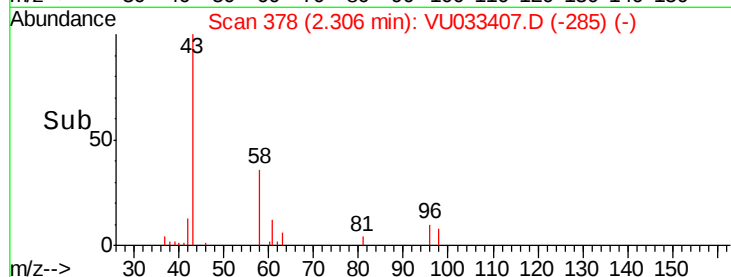
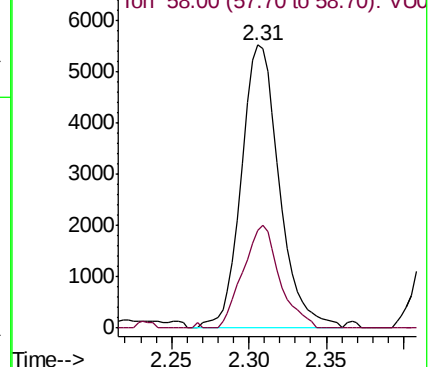
Ion Ratio Lower Upper

43 100

58 34.8 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VU033394.D (-354) (-)



#25

Chloroform

Concen: 2.087 ug/L

RT: 4.65 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VU033407.D

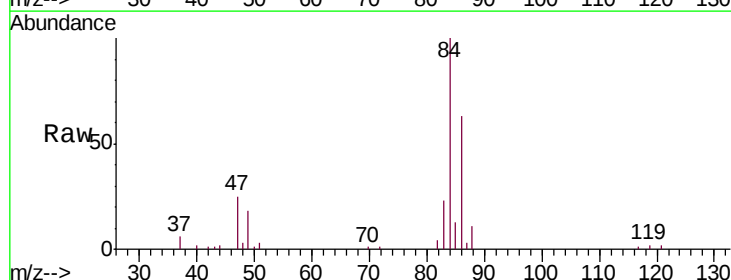
Acq: 25 Jul 2019 13:58

Tgt Ion: 83 Resp: 8074

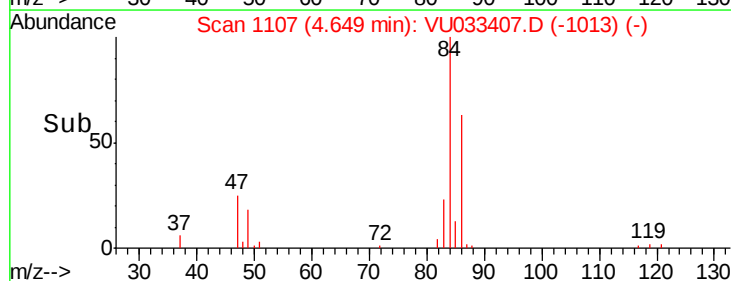
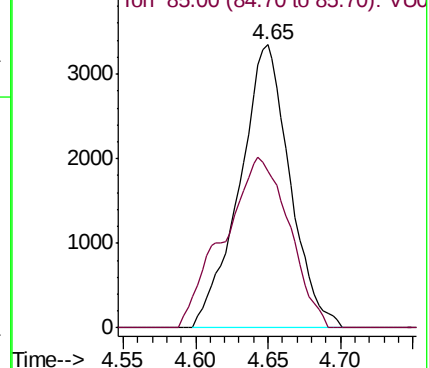
Ion Ratio Lower Upper

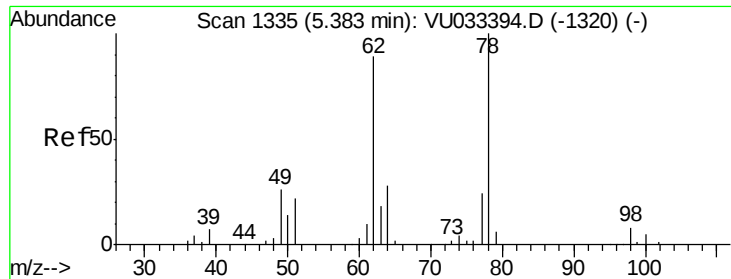
83 100

85 55.5 45.4 84.4



Abundance Ion 83.00 (82.70 to 83.70): VU033394.D (-1088) (-)





#27

1,2-Dichloroethane

Concen: 1.359 ug/L

RT: 5.37 min Scan# 1331

Delta R.T. -0.01 min

Lab File: VU033407.D

Acq: 25 Jul 2019 13:58

Instrument :

MSVOA\_U

ClientSampleId :

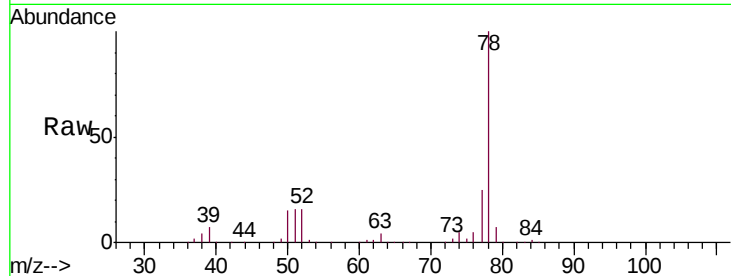
F2A12MS

Tgt Ion: 62 Resp: 4069

Ion Ratio Lower Upper

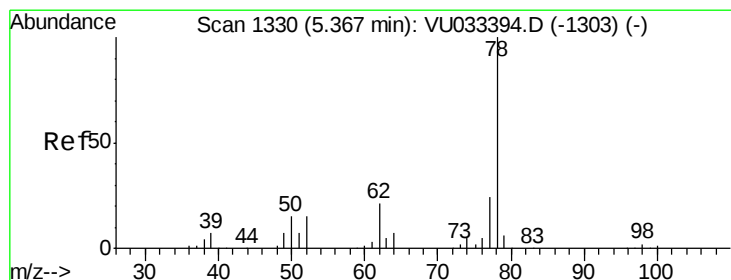
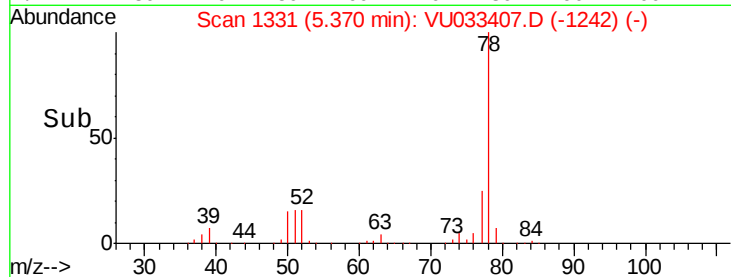
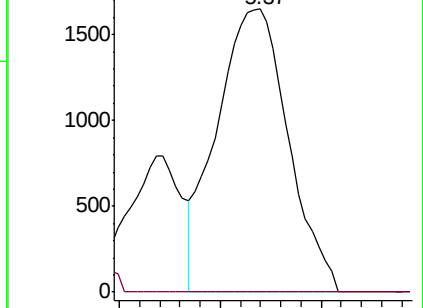
62 100

98 0.0 7.0 10.6#



Abundance Ion 62.00 (61.70 to 62.70): VU033394.D (-1320) (-)

Ion 98.00 (97.70 to 98.70): VU033394.D (-1320) (-)



#33

Benzene

Concen: 49.317 ug/L

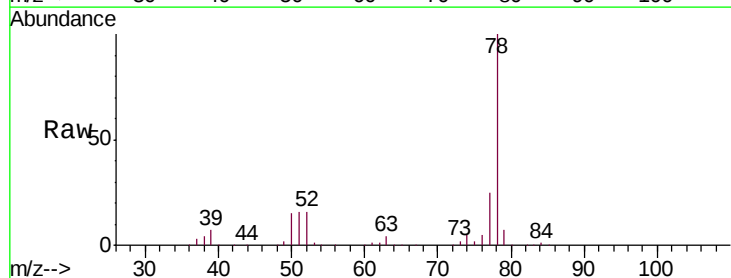
RT: 5.37 min Scan# 1330

Delta R.T. -0.00 min

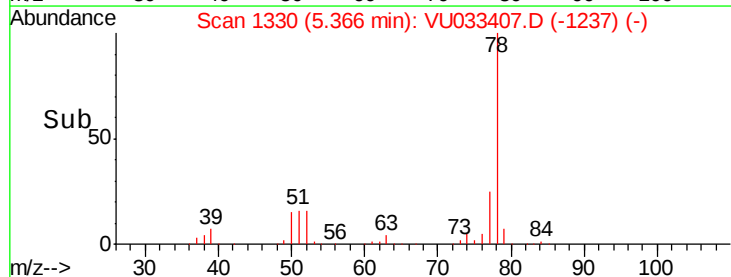
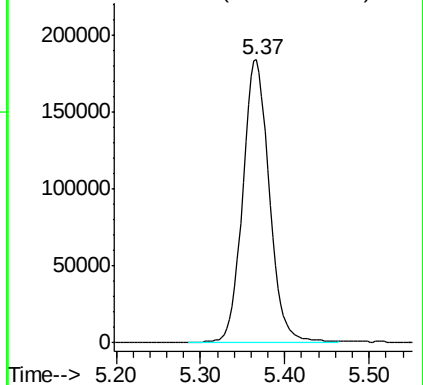
Lab File: VU033407.D

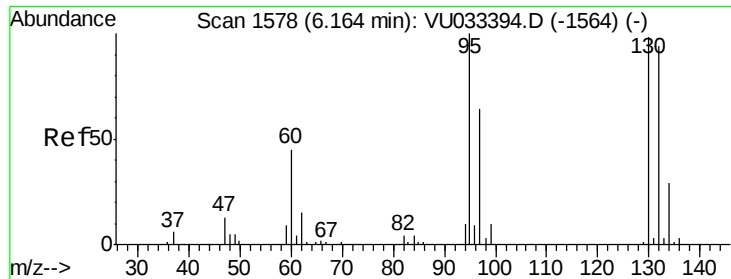
Acq: 25 Jul 2019 13:58

Tgt Ion: 78 Resp: 405554



Abundance Ion 78.00 (77.70 to 78.70): VU033394.D (-1303) (-)

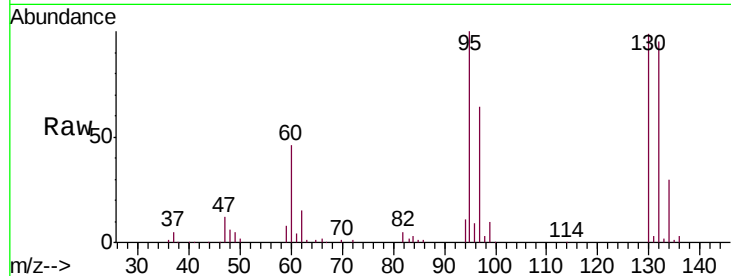




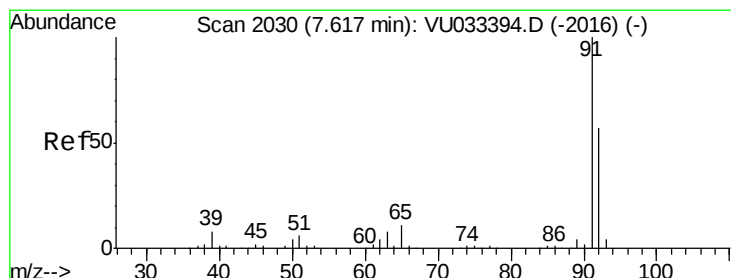
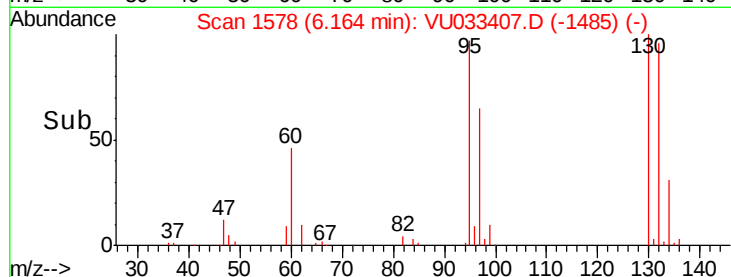
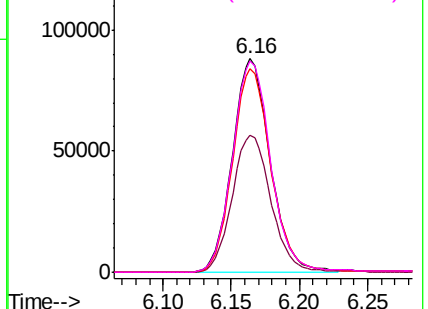
#34  
 Trichloroethene  
 Concen: 78.999 ug/L  
 RT: 6.16 min Scan# 1578  
 Delta R.T. 0.00 min  
 Lab File: VU033407.D  
 Acq: 25 Jul 2019 13:58

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 F2A12MS

Tgt Ion: 95 Resp: 169898  
 Ion Ratio Lower Upper  
 95 100  
 97 64.1 43.8 81.4  
 132 95.2 65.5 121.6  
 130 98.7 69.7 129.5

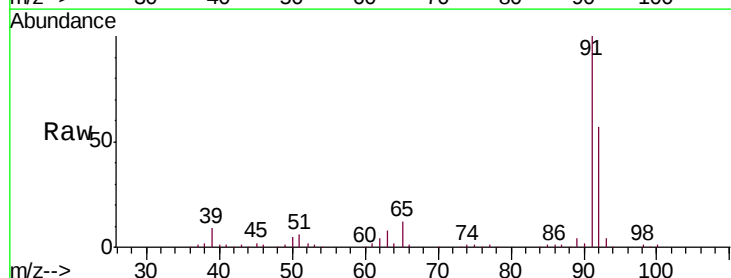


Abundance Ion 95.00 (94.70 to 95.70): VU0  
 Ion 97.00 (96.70 to 97.70): VU0  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V

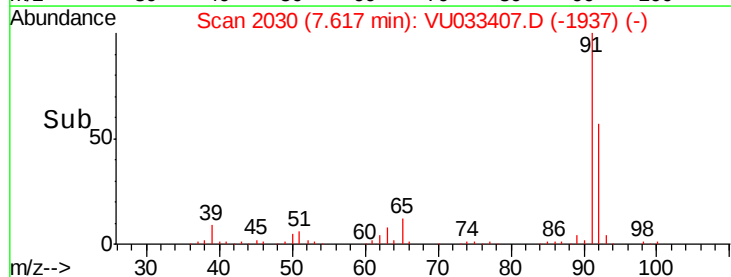
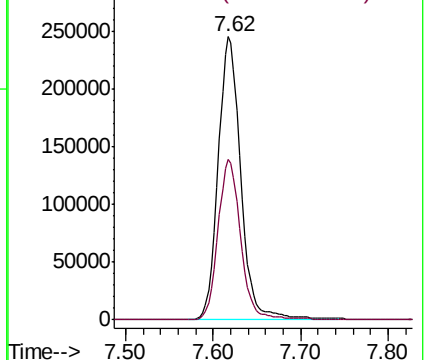


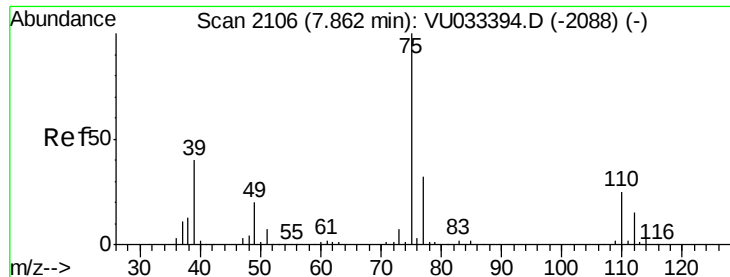
#42  
 Toluene  
 Concen: 49.866 ug/L  
 RT: 7.62 min Scan# 2030  
 Delta R.T. -0.00 min  
 Lab File: VU033407.D  
 Acq: 25 Jul 2019 13:58

Tgt Ion: 91 Resp: 442098  
 Ion Ratio Lower Upper  
 91 100  
 92 56.6 39.8 74.0



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: 0.708 ug/L

RT: 7.83 min Scan# 2096

Delta R.T. -0.03 min

Lab File: VU033407.D

Acq: 25 Jul 2019 13:58

Instrument :

MSVOA\_U

ClientSampled :

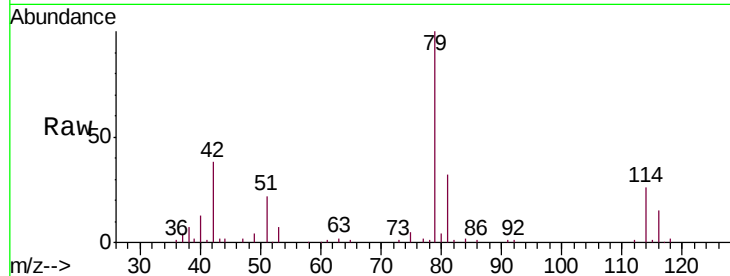
F2A12MS

Tgt Ion: 75 Resp: 2183

Ion Ratio Lower Upper

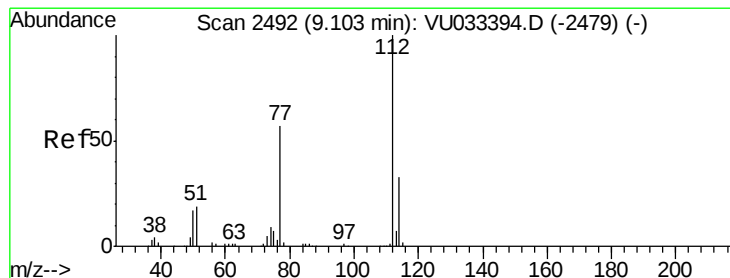
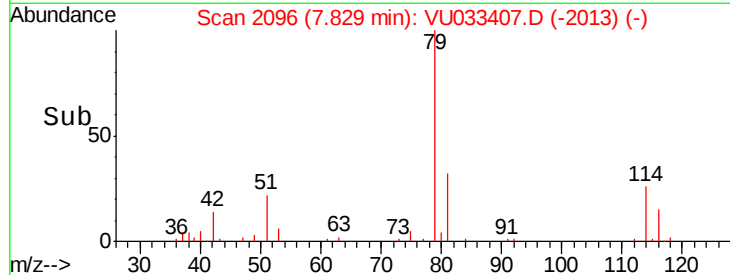
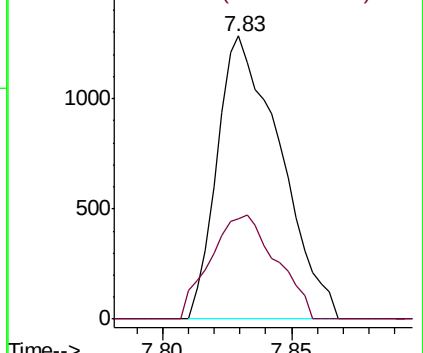
75 100

77 35.6 22.4 41.6



Abundance Ion 75.00 (74.70 to 75.70): VU033394.D (-2088) (-)

Ion 77.00 (76.70 to 77.70): VU033394.D (-2088) (-)



#51

Chlorobenzene

Concen: 49.104 ug/L

RT: 9.10 min Scan# 2491

Delta R.T. -0.00 min

Lab File: VU033407.D

Acq: 25 Jul 2019 13:58

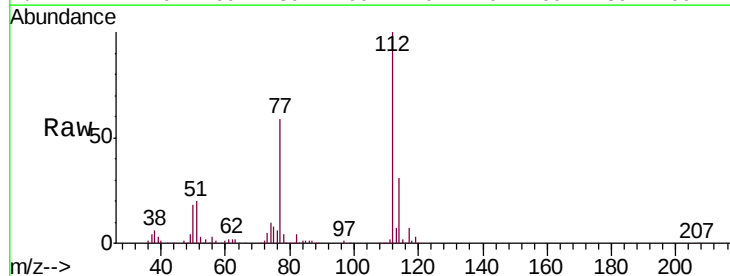
Tgt Ion: 112 Resp: 284152

Ion Ratio Lower Upper

112 100

114 31.3 22.3 41.3

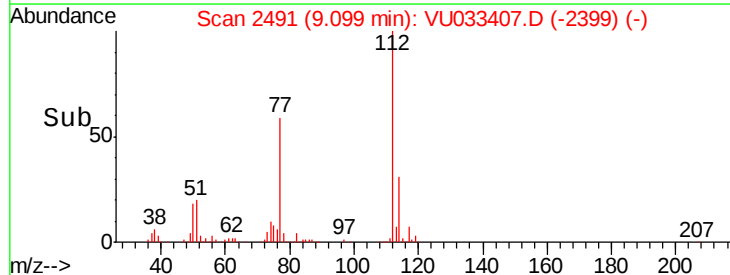
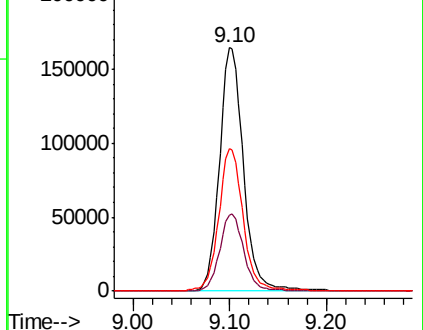
77 58.5 47.2 70.8

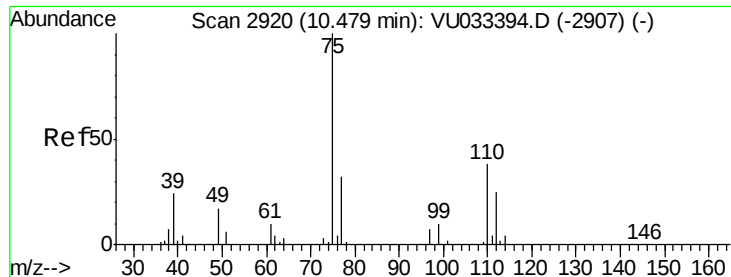


Abundance Ion 112.00 (111.70 to 112.70): VU033394.D (-2479) (-)

Ion 114.00 (113.70 to 114.70): VU033394.D (-2479) (-)

Ion 77.00 (76.70 to 77.70): VU033394.D (-2479) (-)





#59

1,2,3-Trichloropropane

Concen: 5.265 ug/L

RT: 11.47 min Scan# 3227

Delta R.T. 0.99 min

Lab File: VU033407.D

Acq: 25 Jul 2019 13:58

Instrument :

MSVOA\_U

ClientSampleId :

F2A12MS

Tgt Ion: 75 Resp: 15287

Ion Ratio Lower Upper

75 100

77 36.2 26.0 39.0

