

Data File : VU026934.D  
Acq On : 20 Sep 2018 13:29  
Operator : MD/SY  
Sample : J4893-12  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C08N9

Quant Time: Sep 21 04:25:40 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091718WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Sep 21 04:24:07 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 293515   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 291457   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 163286   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 102073   | 47.01    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 94.02% |
| 7) Chloroethane-d5             | 1.68    | 69    | 87022    | 46.83    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 93.66% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 147288   | 35.85    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 71.70% |
| 21) 2-Butanone-d5              | 4.18    | 46    | 139887   | 97.09    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 97.09% |
| 24) Chloroform-d               | 4.65    | 84    | 176097   | 43.72    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 87.44% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 114234   | 45.04    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.08% |
| 32) Benzene-d6                 | 5.34    | 84    | 368673   | 45.14    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.28% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 119075   | 45.24    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 90.48% |
| 41) Toluene-d8                 | 7.57    | 98    | 320958   | 43.49    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 86.98% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 52390    | 44.59    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 89.18% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 96349    | 93.15    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 93.15% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 153626   | 41.86    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 83.72% |
| 64) 1,2-Dichlorobenzene-d4     | 11.48   | 152   | 151325   | 44.55    | ug/L | -0.38  |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.10% |

#### Target Compounds

|                                |       |     |         |          |        | Qvalue |
|--------------------------------|-------|-----|---------|----------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101 | 1377    | 0.679    | ug/L # | 18     |
| 12) 1,1-Dichloroethene         | 2.27  | 96  | 1320    | 0.693    | ug/L # | 1      |
| 13) Acetone                    | 2.32  | 43  | 3950    | 2.789    | ug/L   | 68     |
| 33) Benzene                    | 5.39  | 78  | 4325    | 0.479    | ug/L   | 100    |
| 37) 1,2-Dichloropropane        | 6.33  | 63  | 12277   | 4.946    | ug/L # | 89     |
| 39) cis-1,3-Dichloropropene    | 7.23  | 75  | 2677    | 0.763    | ug/L # | 60     |
| 44) trans-1,3-Dichloropropene  | 7.85  | 75  | 2132    | 0.649    | ug/L   | 88     |
| 51) Chlorobenzene              | 9.12  | 112 | 7525800 | 1212.893 | ug/L   | 98     |
| 62) 1,3-Dichlorobenzene        | 11.42 | 146 | 489503  | 98.339   | ug/L   | 99     |
| 63) 1,4-Dichlorobenzene        | 11.51 | 146 | 2088298 | 380.998  | ug/L   | 98     |
| 66) 1,2-Dibromo-3-chloropropan | 12.64 | 75  | 9117    | 10.903   | ug/L # | 2      |
| 67) 1,3,5-Trichlorobenzene     | 12.89 | 180 | 8949    | 2.323    | ug/L   | 99     |
| 68) 1,2,4-trichlorobenzene     | 13.50 | 180 | 2651622 | 798.837  | ug/L   | 99     |
| 69) Naphthalene                | 13.75 | 128 | 4788    | 0.490    | ug/L   | 99     |
| 70) 1,2,3-Trichlorobenzene     | 13.99 | 180 | 409984  | 112.160  | ug/L   | 98     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU092118\  
Quantitation Report (Not Reviewed)

Data File : VU026934.D  
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Operator : MD/SY  
Sample : J4893-12  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C08N9

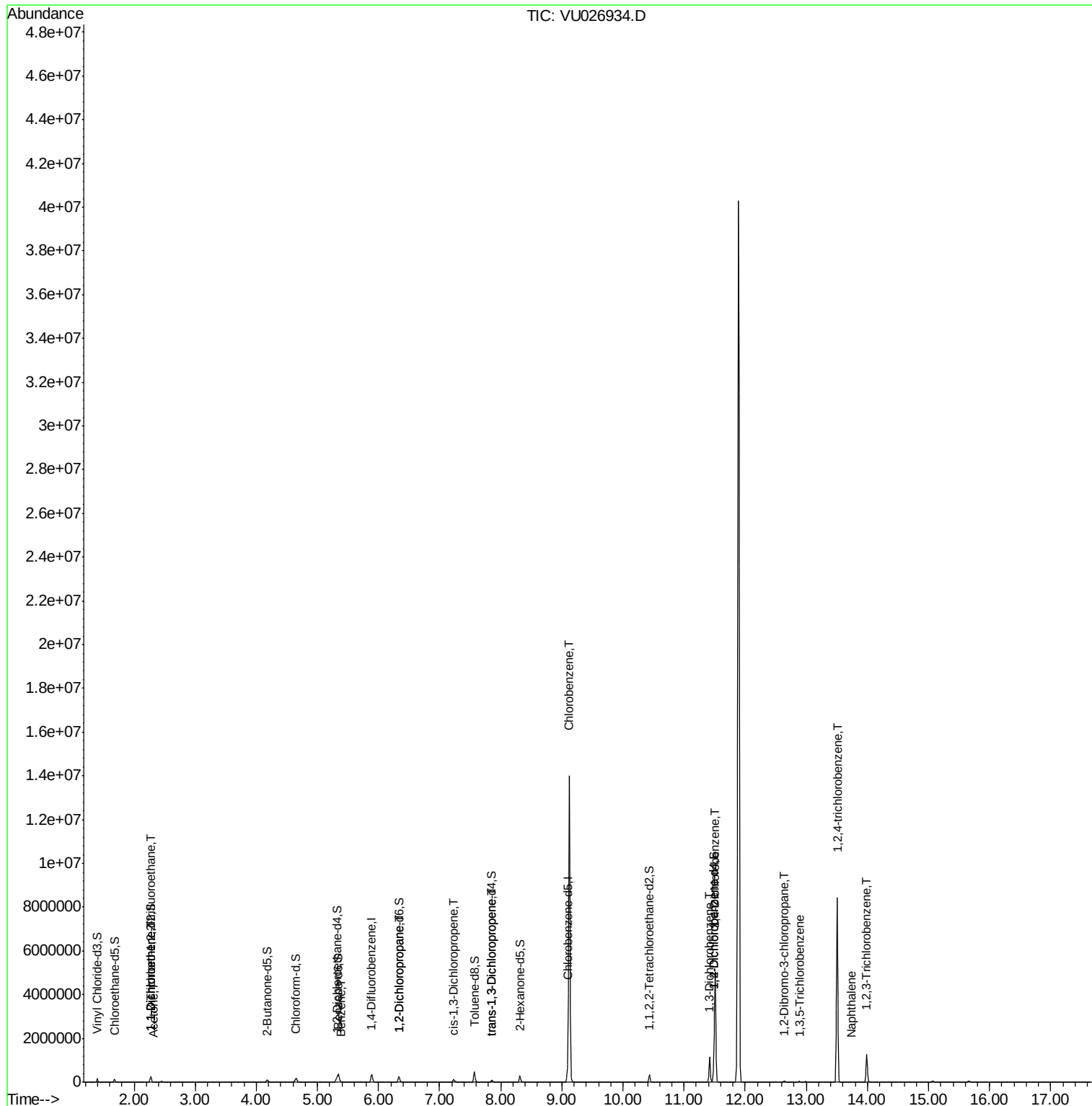
Quant Time: Sep 21 04:25:40 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091718WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Sep 21 04:24:07 2018  
Response via : Initial Calibration

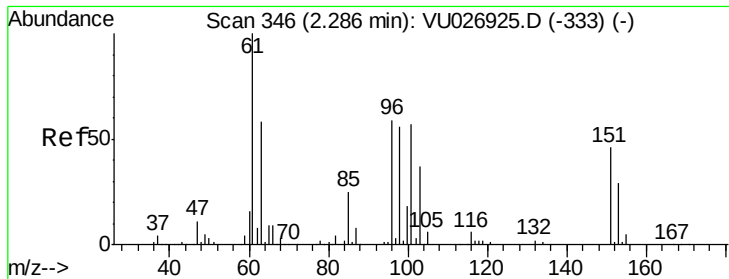
| Internal Standards                                                         | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                      |      |      |          |      |       |          |
| (#) = qualifier out of range (m) = manual integration (+) = signals summed |      |      |          |      |       |          |

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Quant Title : VOC Analysis  
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Response via : Initial Calibration





#10

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

Concen: 0.679 ug/L

RT: 2.27 min Scan# 342

Delta R.T. -0.01 min

Lab File: VU026934.D

Acq: 20 Sep 2018 13:29

Instrument :

MSVOA\_U

ClientSampleId :

C08N9

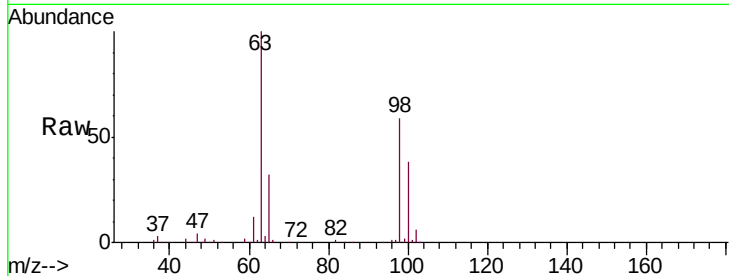
Tgt Ion: 101 Resp: 1377

Ion Ratio Lower Upper

101 100

85 0.0 34.6 52.0#

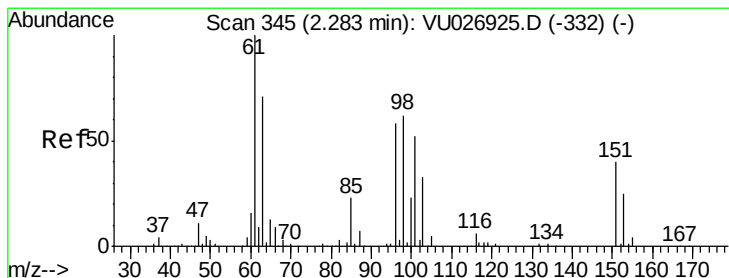
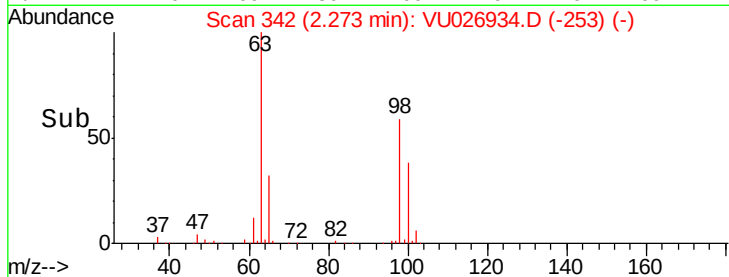
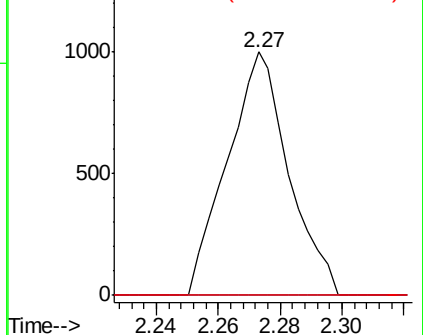
151 0.0 63.0 94.4#



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: 0.693 ug/L

RT: 2.27 min Scan# 342

Delta R.T. -0.01 min

Lab File: VU026934.D

Acq: 20 Sep 2018 13:29

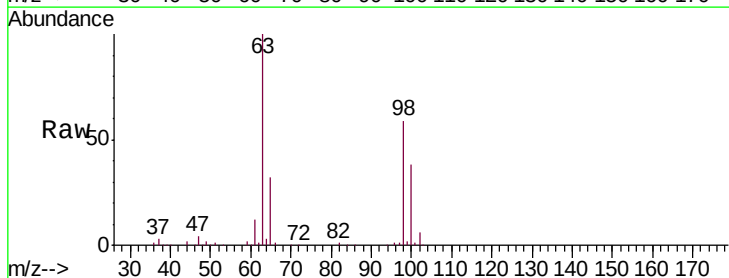
Tgt Ion: 96 Resp: 1320

Ion Ratio Lower Upper

96 100

61 1203.8 124.0 230.4#

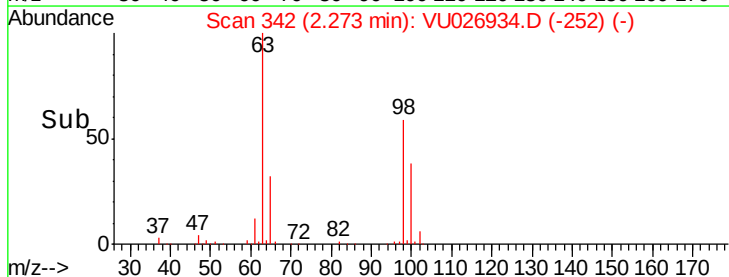
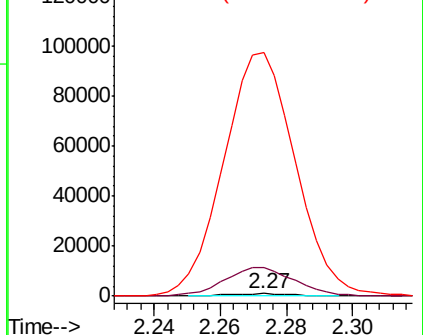
63 10275.1 97.7 181.5#

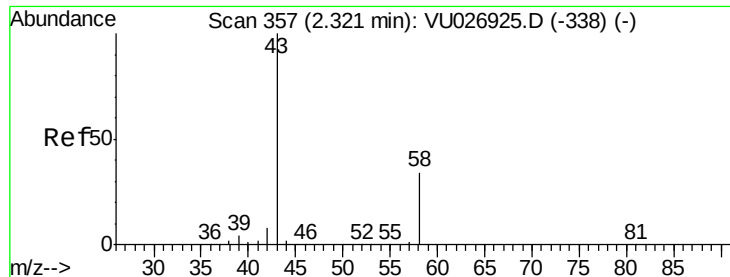


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 2.789 ug/L

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU026934.D

Acq: 20 Sep 2018 13:29

Instrument :

MSVOA\_U

ClientSampleId :

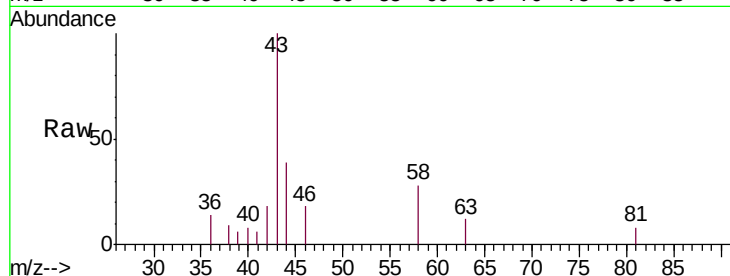
C08N9

Tgt Ion: 43 Resp: 3950

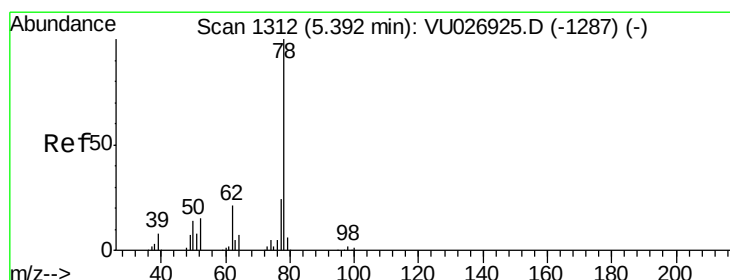
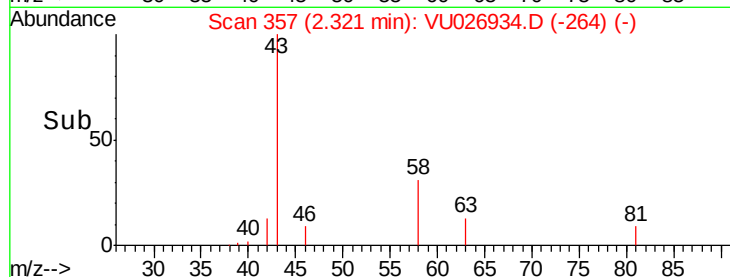
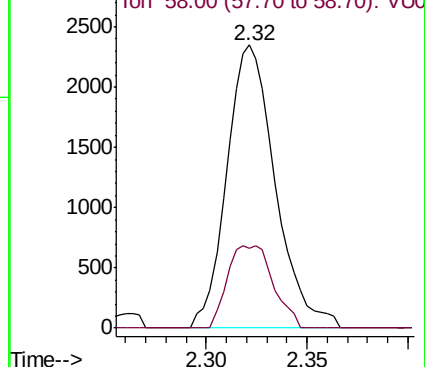
Ion Ratio Lower Upper

43 100

58 14.5 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VU026934.D (-264) (-)



#33

Benzene

Concen: 0.479 ug/L

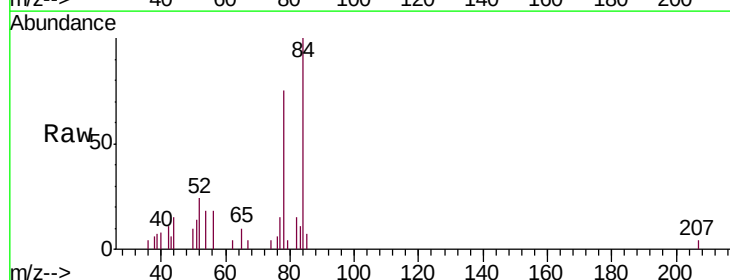
RT: 5.39 min Scan# 1311

Delta R.T. -0.00 min

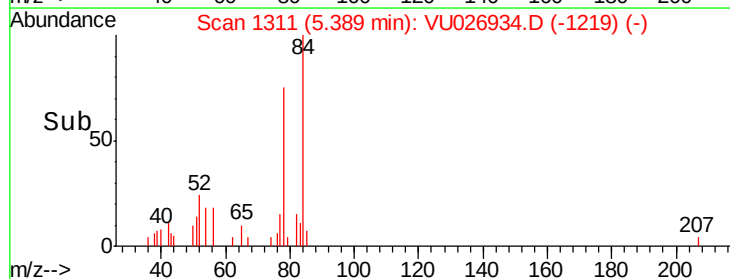
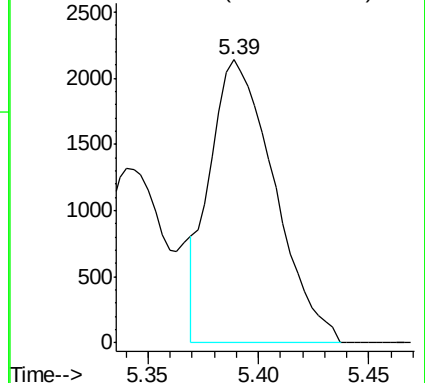
Lab File: VU026934.D

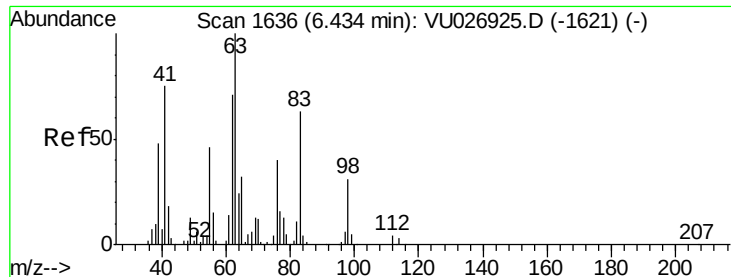
Acq: 20 Sep 2018 13:29

Tgt Ion: 78 Resp: 4325



Abundance Ion 78.00 (77.70 to 78.70): VU026934.D (-1219) (-)

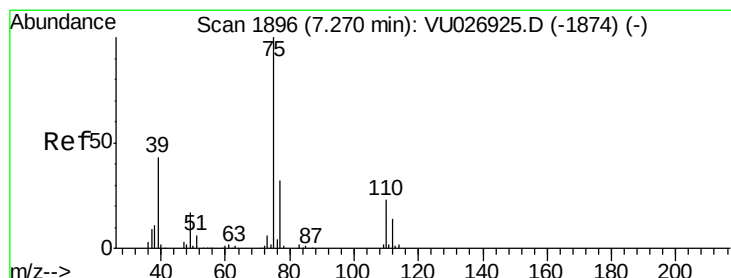
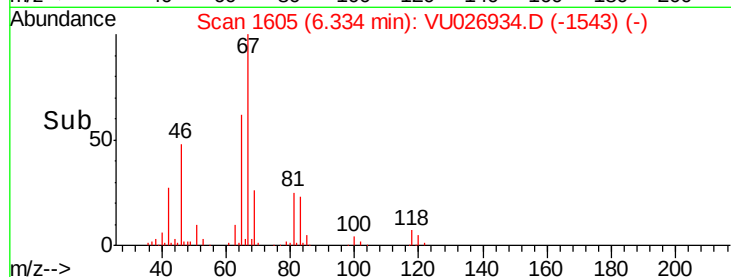
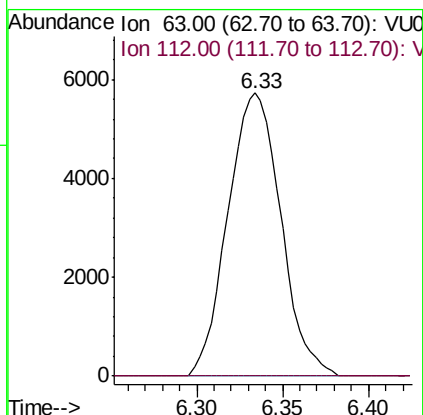
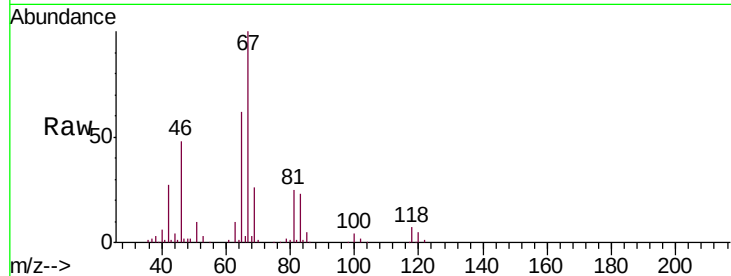




#37  
 1,2-Dichloropropane  
 Concen: 4.946 ug/L  
 RT: 6.33 min Scan# 1605  
 Delta R.T. -0.10 min  
 Lab File: VU026934.D  
 Acq: 20 Sep 2018 13:29

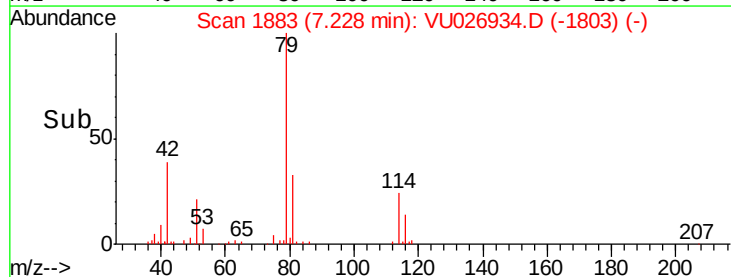
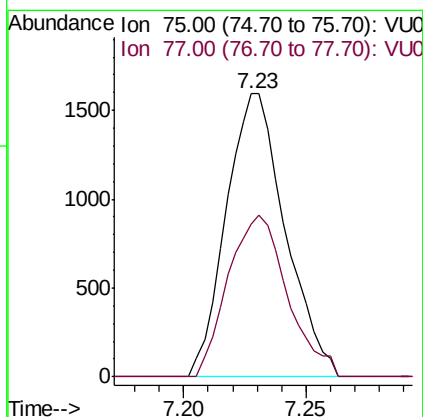
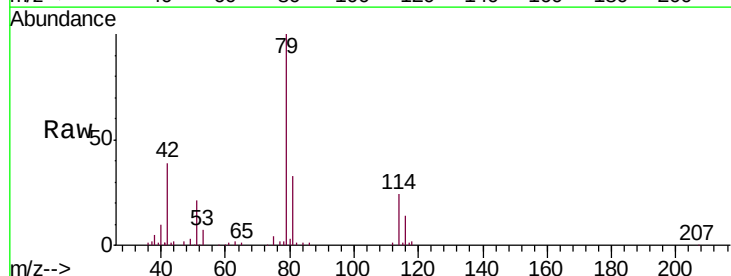
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 C08N9

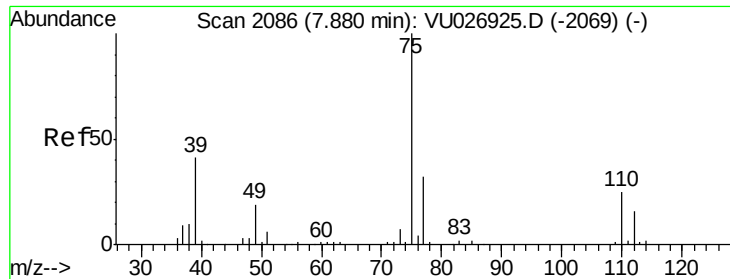
Tgt Ion: 63 Resp: 12277  
 Ion Ratio Lower Upper  
 63 100  
 112 0.9 3.7 5.5#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.763 ug/L  
 RT: 7.23 min Scan# 1883  
 Delta R.T. -0.04 min  
 Lab File: VU026934.D  
 Acq: 20 Sep 2018 13:29

Tgt Ion: 75 Resp: 2677  
 Ion Ratio Lower Upper  
 75 100  
 77 54.0 22.1 41.1#





#44

trans-1,3-Dichloropropene

Concen: 0.649 ug/L

RT: 7.85 min Scan# 2077

Delta R.T. -0.03 min

Lab File: VU026934.D

Acq: 20 Sep 2018 13:29

Instrument :

MSVOA\_U

ClientSampleId :

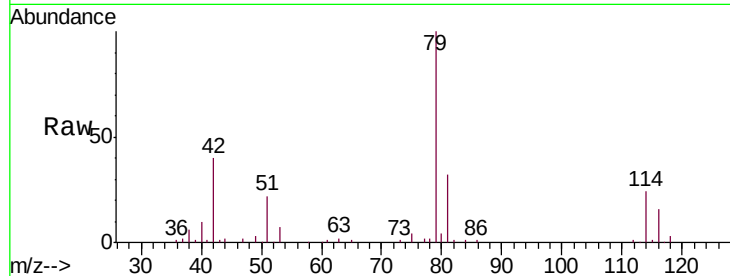
C08N9

Tgt Ion: 75 Resp: 2132

Ion Ratio Lower Upper

75 100

77 39.3 22.8 42.4



Abundance Ion 75.00 (74.70 to 75.70): VU026925.D (-2069) (-)

Ion 77.00 (76.70 to 77.70): VU026925.D (-2069) (-)

7.85

1500

1000

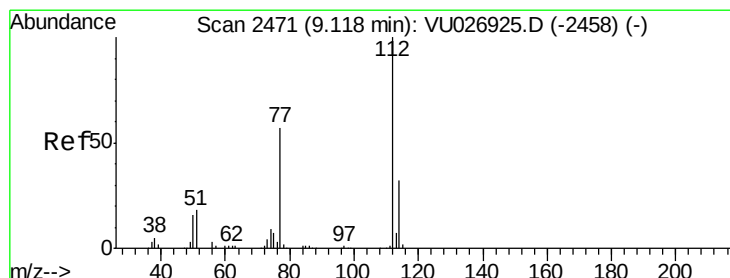
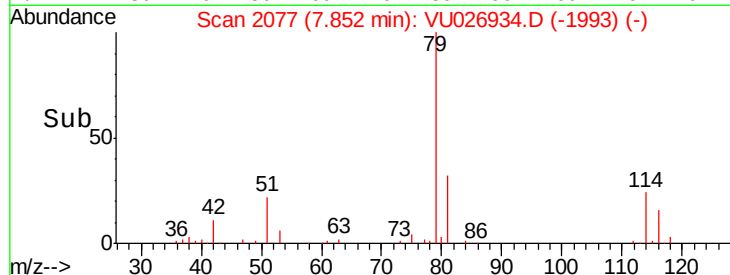
500

0

7.85

7.90

Time-->



#51

Chlorobenzene

Concen: 1212.893 ug/L

RT: 9.12 min Scan# 2473

Delta R.T. 0.01 min

Lab File: VU026934.D

Acq: 20 Sep 2018 13:29

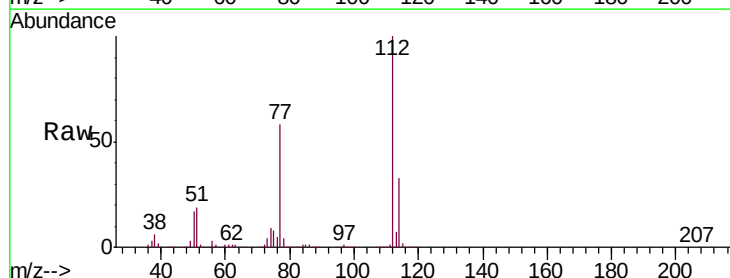
Tgt Ion: 112 Resp: 7525800

Ion Ratio Lower Upper

112 100

114 32.9 22.3 41.5

77 57.6 45.1 67.7



Abundance Ion 112.00 (111.70 to 112.70): VU026925.D (-2458) (-)

Ion 114.00 (113.70 to 114.70): VU026925.D (-2458) (-)

Ion 77.00 (76.70 to 77.70): VU026925.D (-2458) (-)

9.12

6000000

5000000

4000000

3000000

2000000

1000000

0

9.10

9.12

9.14

9.16

9.18

9.20

9.22

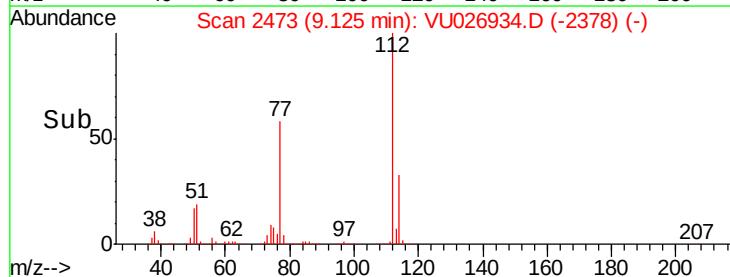
9.24

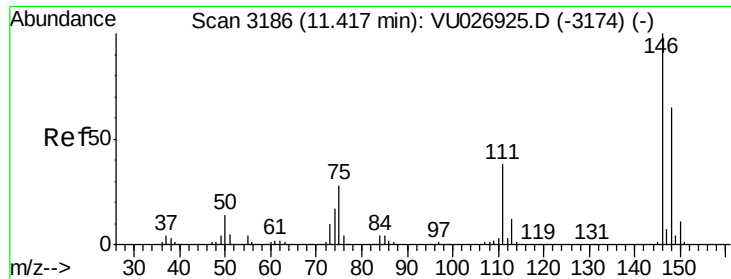
9.26

9.28

9.30

Time-->

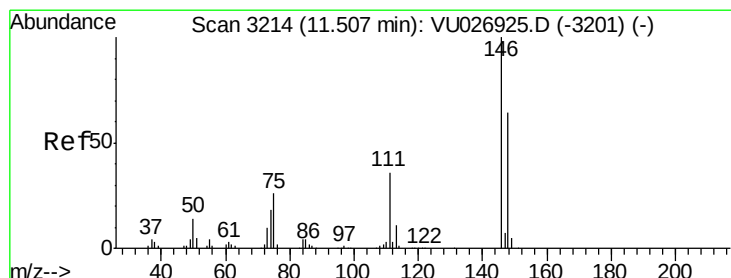
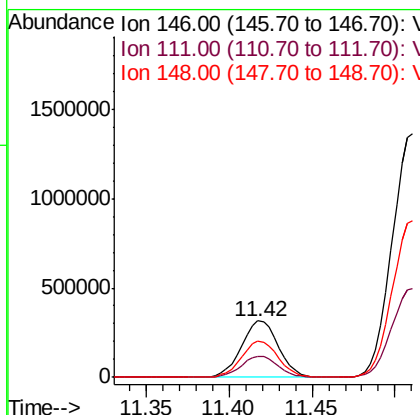
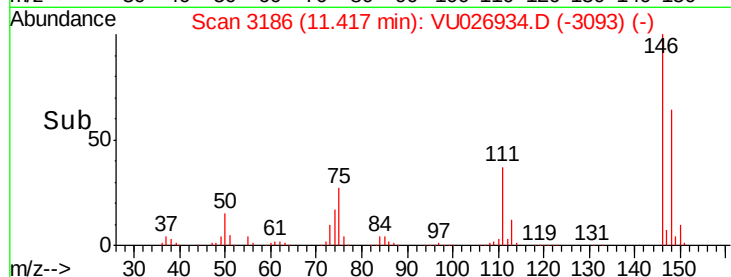
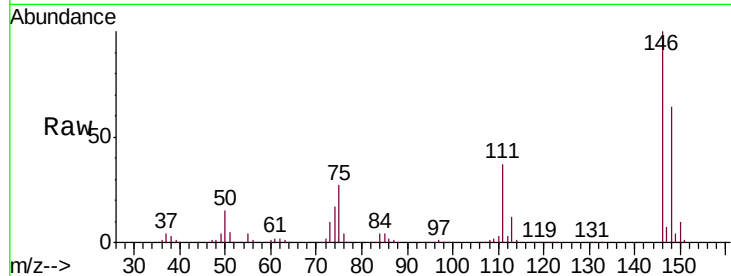




#62  
 1,3-Dichlorobenzene  
 Concen: 98.339 ug/L  
 RT: 11.42 min Scan# 3186  
 Delta R.T. 0.00 min  
 Lab File: VU026934.D  
 Acq: 20 Sep 2018 13:29

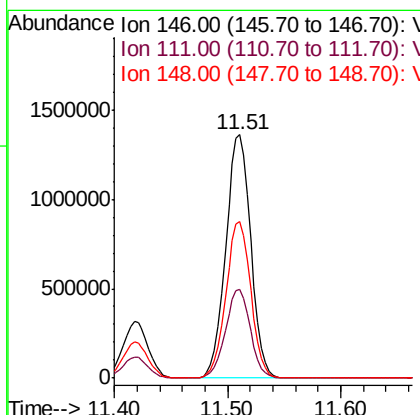
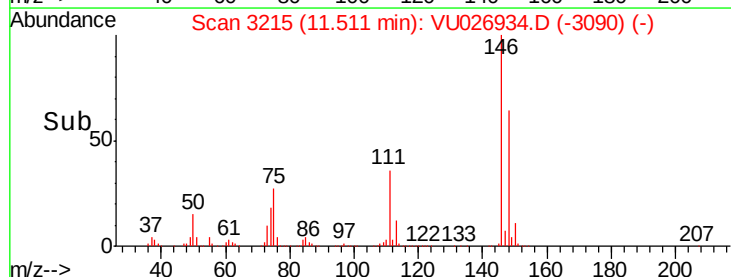
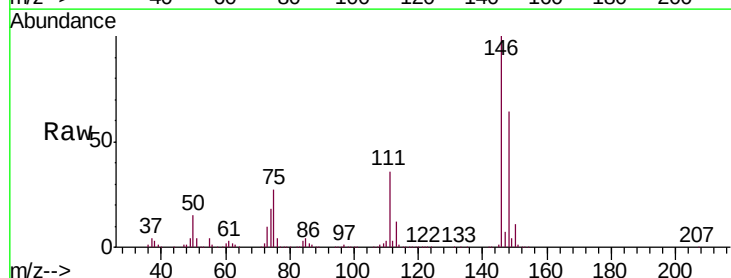
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C08N9

Tgt Ion:146 Resp: 489503  
 Ion Ratio Lower Upper  
 146 100  
 111 37.4 26.7 49.7  
 148 63.6 44.9 83.5

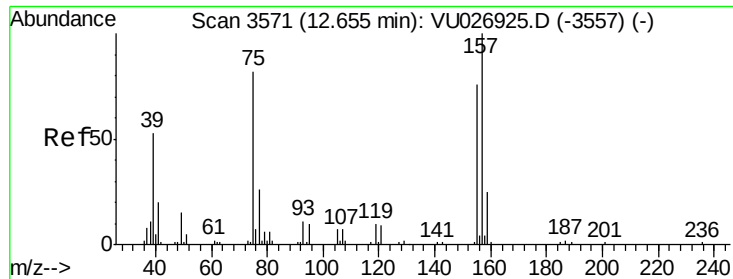


#63  
 1,4-Dichlorobenzene  
 Concen: 380.998 ug/L  
 RT: 11.51 min Scan# 3215  
 Delta R.T. 0.00 min  
 Lab File: VU026934.D  
 Acq: 20 Sep 2018 13:29

Tgt Ion:146 Resp: 2088298  
 Ion Ratio Lower Upper  
 146 100  
 111 36.3 26.0 48.2  
 148 64.1 45.8 85.2



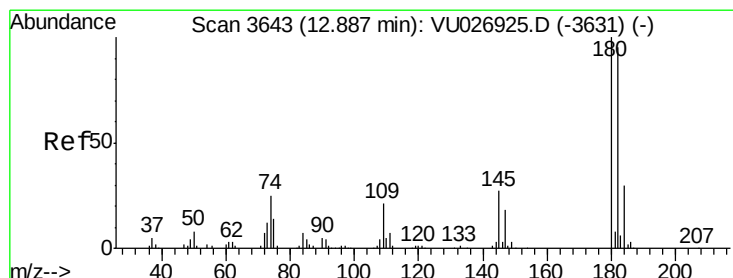
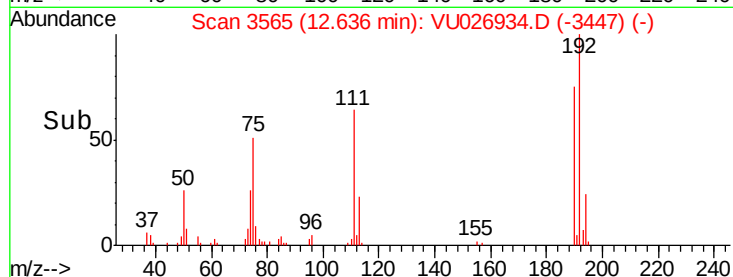
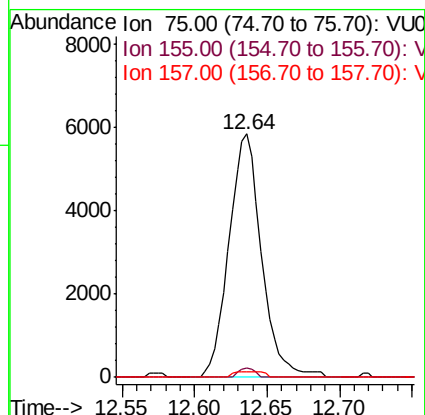
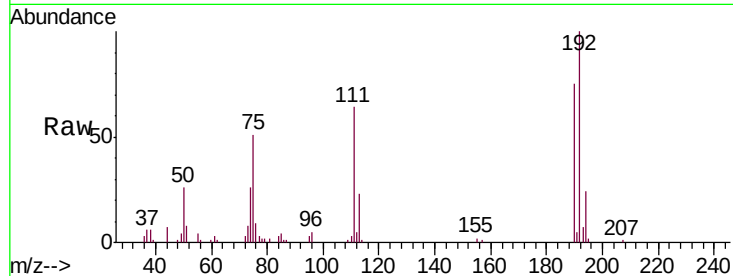




#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 10.903 ug/L  
 RT: 12.64 min Scan# 3565  
 Delta R.T. -0.02 min  
 Lab File: VU026934.D  
 Acq: 20 Sep 2018 13:29

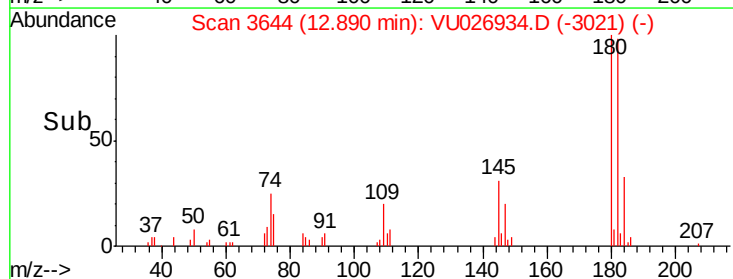
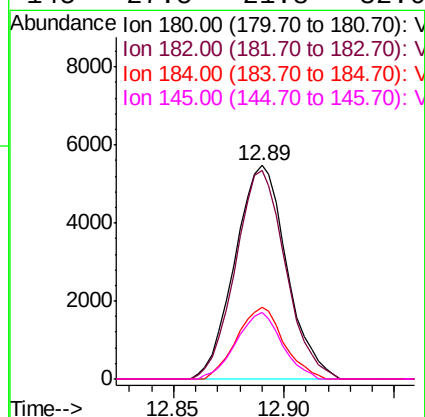
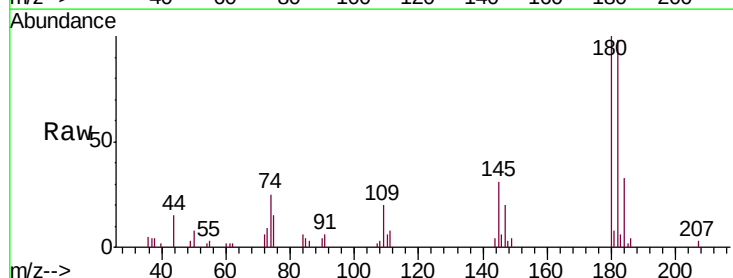
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C08N9

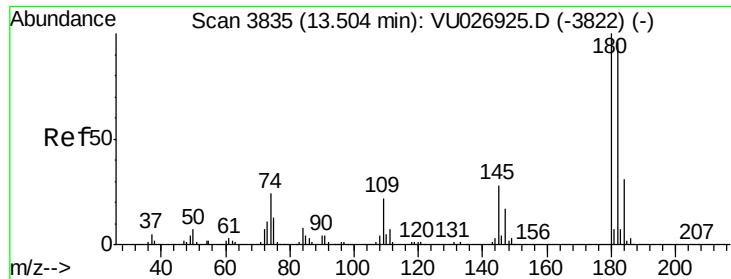
Tgt Ion: 75 Resp: 9117  
 Ion Ratio Lower Upper  
 75 100  
 155 3.6 69.5 104.3#  
 157 2.1 90.5 135.7#



#67  
 1,3,5-Trichlorobenzene  
 Concen: 2.323 ug/L  
 RT: 12.89 min Scan# 3644  
 Delta R.T. 0.00 min  
 Lab File: VU026934.D  
 Acq: 20 Sep 2018 13:29

Tgt Ion: 180 Resp: 8949  
 Ion Ratio Lower Upper  
 180 100  
 182 94.5 76.7 115.1  
 184 30.3 24.2 36.4  
 145 27.5 21.8 32.6





#68

1,2,4-trichlorobenzene

Concen: 798.837 ug/L

RT: 13.50 min Scan# 3835

Delta R.T. 0.00 min

Lab File: VU026934.D

Acq: 20 Sep 2018 13:29

Instrument :

MSVOA\_U

ClientSampleId :

C08N9

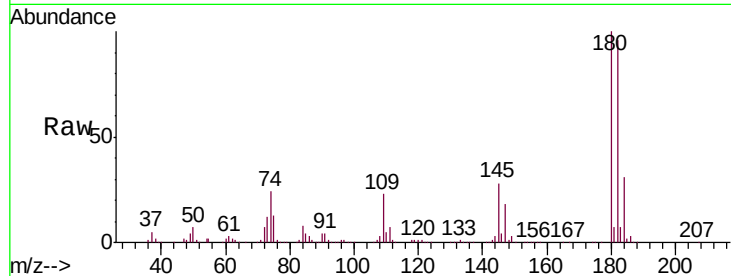
Tgt Ion:180 Resp: 2651622

Ion Ratio Lower Upper

180 100

182 96.5 76.8 115.2

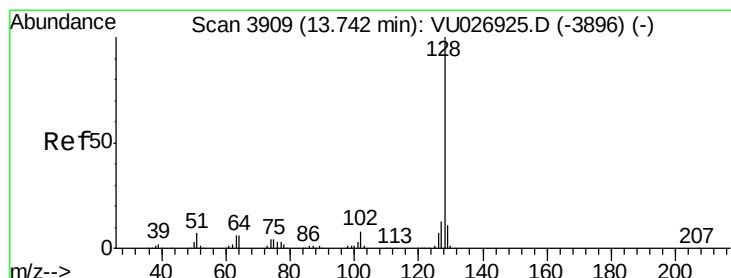
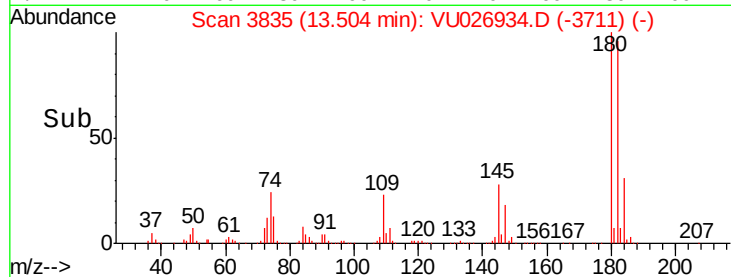
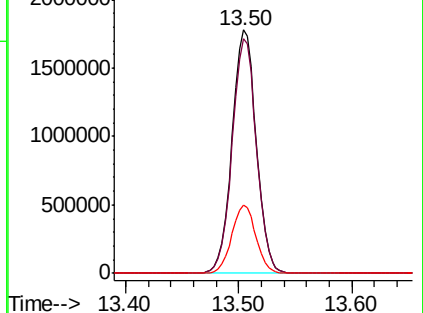
145 27.9 22.2 33.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#69

Naphthalene

Concen: 0.490 ug/L

RT: 13.75 min Scan# 3910

Delta R.T. 0.00 min

Lab File: VU026934.D

Acq: 20 Sep 2018 13:29

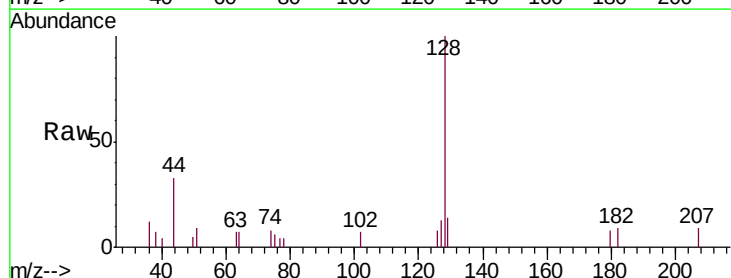
Tgt Ion:128 Resp: 4788

Ion Ratio Lower Upper

128 100

127 12.4 10.2 15.4

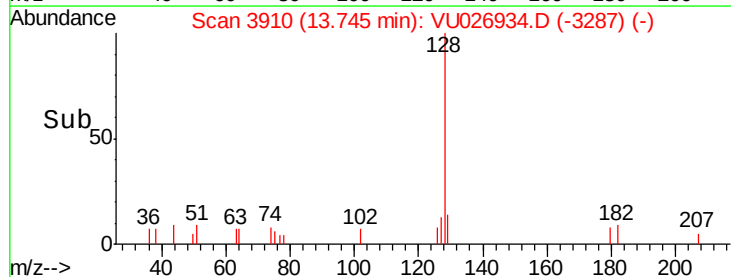
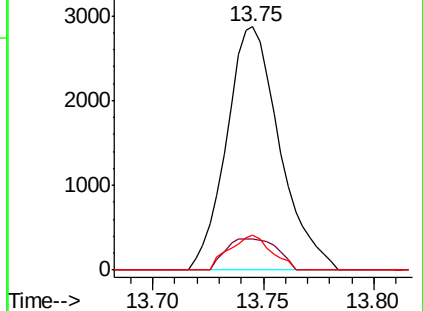
129 11.3 8.6 12.8

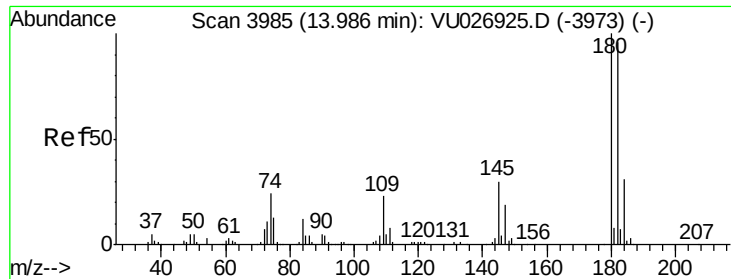


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#70  
 1,2,3-Trichlorobenzene  
 Concen: 112.160 ug/L  
 RT: 13.99 min Scan# 3985  
 Delta R.T. 0.00 min  
 Lab File: VU026934.D  
 Acq: 20 Sep 2018 13:29

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C08N9

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 409984 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 96.7  | 75.6  | 113.4  |
| 145      | 29.8  | 23.8  | 35.6   |

