

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU042920\  
 Data File : VU037932.D  
 Acq On : 29 Apr 2020 23:48  
 Operator : JC/MD  
 Sample : L2410-07  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DBEF5

Quant Time: Apr 30 06:06:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042320WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Apr 30 04:10:11 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 612646   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 585224   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 262084   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61    | 65    | 239937   | 44.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 89.64%  |
| 7) Chloroethane-d5             | 1.93    | 69    | 211637   | 51.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 102.02% |
| 11) 1,1-Dichloroethene-d2      | 2.59    | 63    | 301816   | 34.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 69.66%  |
| 21) 2-Butanone-d5              | 4.66    | 46    | 402580   | 94.92    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 94.92%  |
| 24) Chloroform-d               | 5.10    | 84    | 395008   | 48.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.90%  |
| 26) 1,2-Dichloroethane-d4      | 5.74    | 65    | 289039   | 51.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.40% |
| 32) Benzene-d6                 | 5.76    | 84    | 859010   | 51.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.82% |
| 36) 1,2-Dichloropropane-d6     | 6.72    | 67    | 290233   | 52.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 104.86% |
| 41) Toluene-d8                 | 7.92    | 98    | 748310   | 49.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.40%  |
| 43) trans-1,3-Dichloropropene- | 8.20    | 79    | 108439   | 38.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 76.12%  |
| 47) 2-Hexanone-d5              | 8.65    | 63    | 264841   | 87.89    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 87.89%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77   | 84    | 405785   | 52.69    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 105.38% |
| 64) 1,2-Dichlorobenzene-d4     | 12.21   | 152   | 269036   | 52.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 105.52% |

## Target Compounds

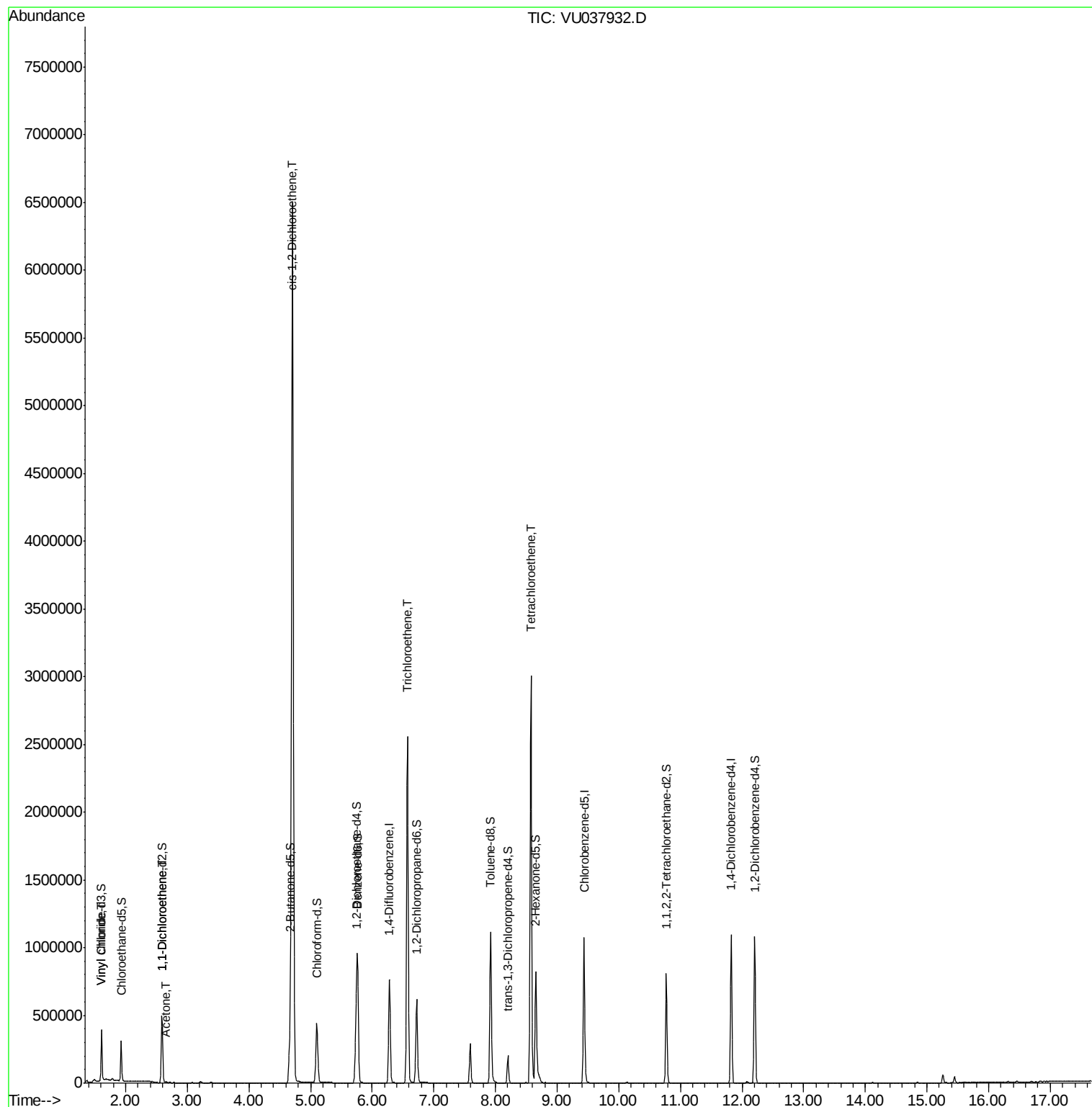
|                            |      |     |         |              | Ovalue |
|----------------------------|------|-----|---------|--------------|--------|
| 5) Vinyl chloride          | 1.62 | 62  | 7792    | 1.282 ug/L # | 1      |
| 12) 1,1-Dichloroethene     | 2.60 | 96  | 4260    | 1.145 ug/L # | 1      |
| 13) Acetone                | 2.65 | 43  | 8804    | 3.479 ug/L   | 98     |
| 20) cis-1,2-Dichloroethene | 4.71 | 96  | 3221884 | 707.569 ug/L | 96     |
| 34) Trichloroethene        | 6.57 | 95  | 866198  | 198.806 ug/L | 99     |
| 46) Tetrachloroethene      | 8.57 | 164 | 634151  | 199.130 ug/L | 98     |

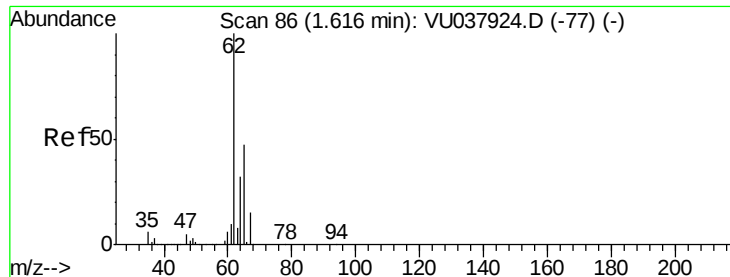
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : L2410-07  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
DBEF5

Quant Time: Apr 30 06:06:53 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042320WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Apr 30 04:10:11 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 1.282 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037932.D

Acq: 29 Apr 2020 23:48

Instrument :

MSVOA\_U

ClientSampled :

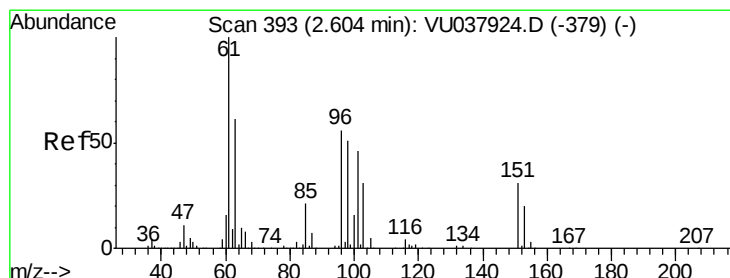
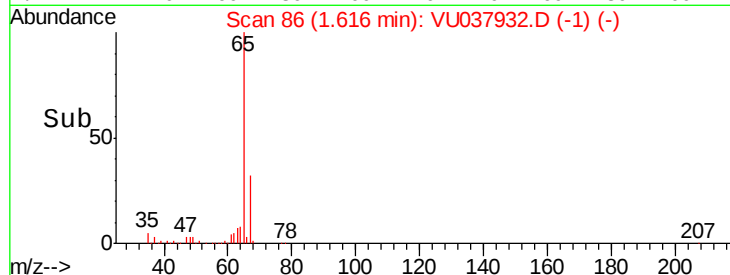
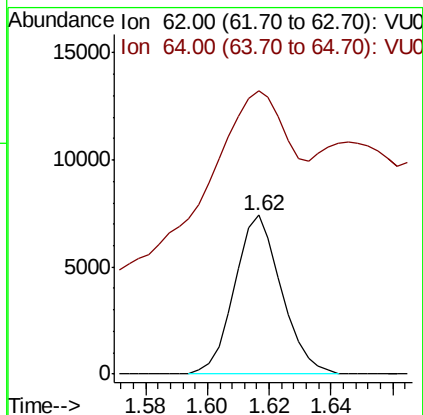
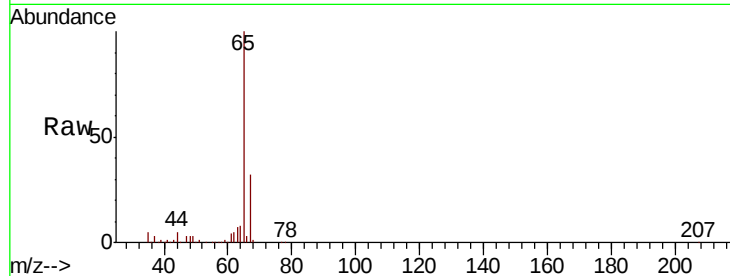
DBEF5

Tot Ion: 62 Resp: 7792

Ion Ratio Lower Upper

62 100

64 178.3 23.2 43.0#



#12

1,1-Dichloroethene

Concen: 1.145 ug/L

RT: 2.60 min Scan# 391

Delta R.T. -0.01 min

Lab File: VU037932.D

Acq: 29 Apr 2020 23:48

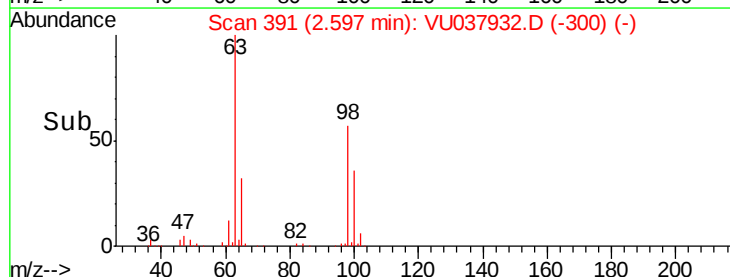
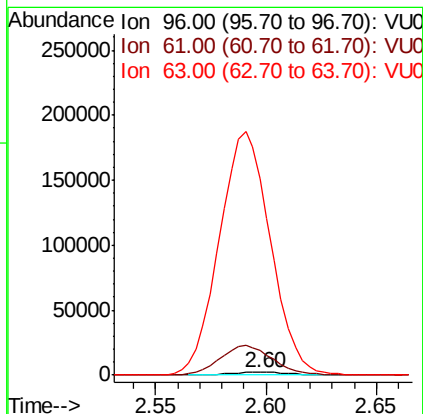
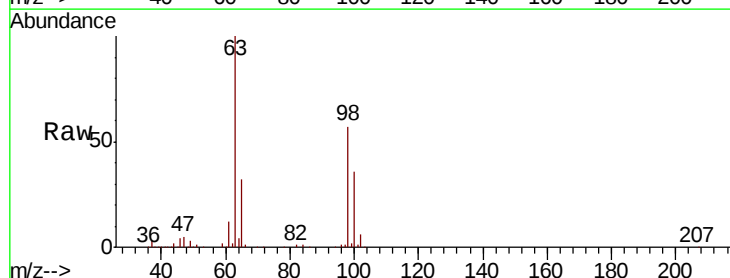
Tgt Ion: 96 Resp: 4260

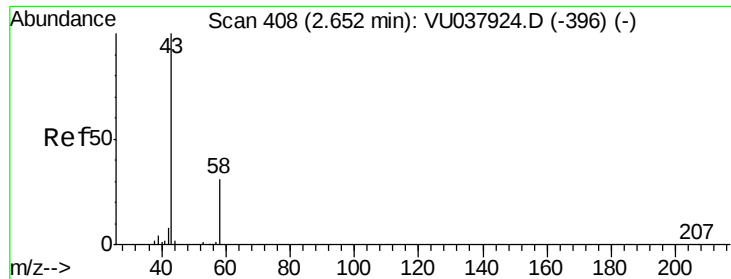
Ion Ratio Lower Upper

96 100

61 855.7 134.1 249.0#

63 6871.5 96.5 179.1#





#13

Acetone

Concen: 3.479 ug/L

RT: 2.65 min Scan# 408

Delta R.T. 0.00 min

Lab File: VU037932.D

Acq: 29 Apr 2020 23:48

Instrument :

MSVOA\_U

ClientSampleId :

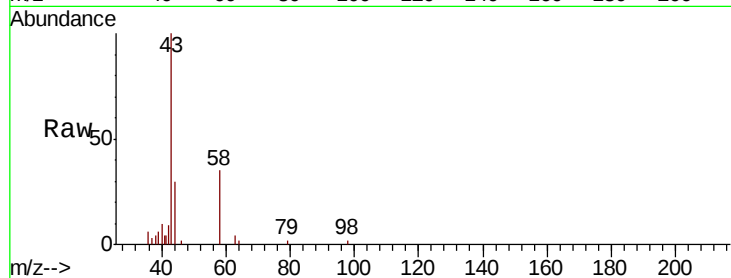
DBEF5

Tot Ion: 43 Resp: 8804

Ion Ratio Lower Upper

43 100

58 31.9 0.0 62.0



Abundance Ion 43.00 (42.70 to 43.70): VU037924.D (-396) (-)

Ion 58.00 (57.70 to 58.70): VU037924.D (-396) (-)

2.65

6000

5000

4000

3000

2000

1000

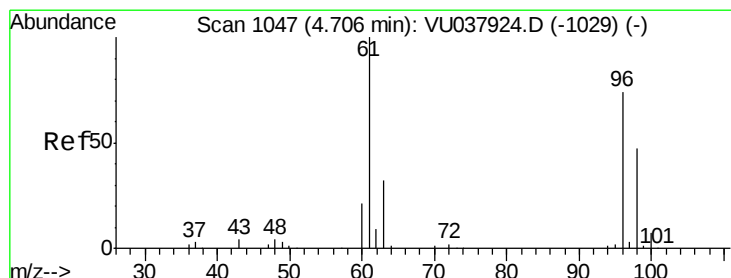
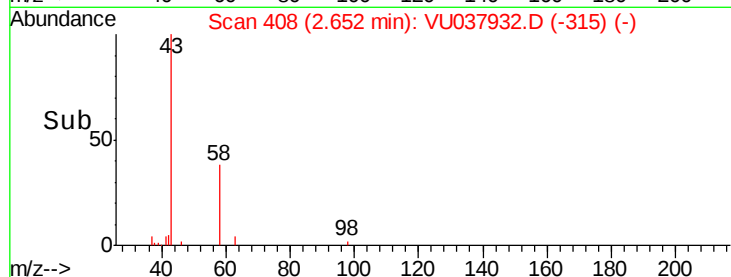
0

Time-->

2.60

2.65

2.70



#20

cis-1,2-Dichloroethene

Concen: 707.569 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU037932.D

Acq: 29 Apr 2020 23:48

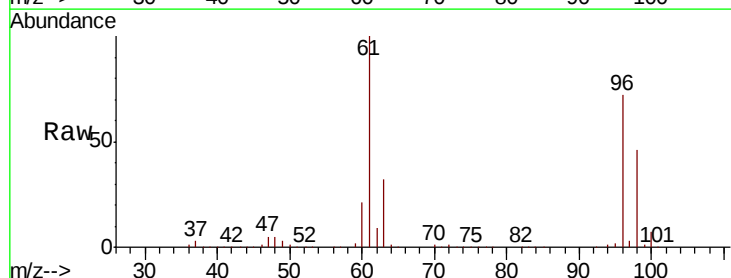
Tgt Ion: 96 Resp: 3221884

Ion Ratio Lower Upper

96 100

61 138.0 100.4 186.4

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU037924.D (-1029) (-)

Ion 61.00 (60.70 to 61.70): VU037924.D (-1029) (-)

Ion 68.00 (67.70 to 68.70): VU037924.D (-1029) (-)

2500000

2000000

1500000

1000000

500000

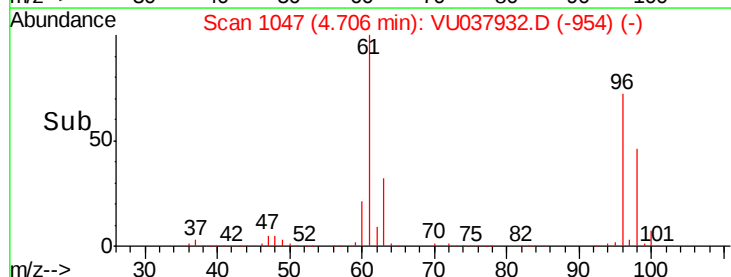
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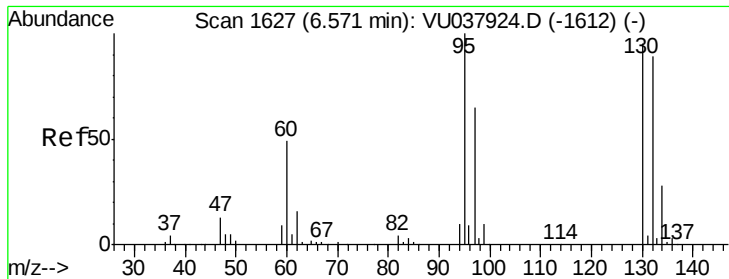
Time-->

4.60

4.70

4.80

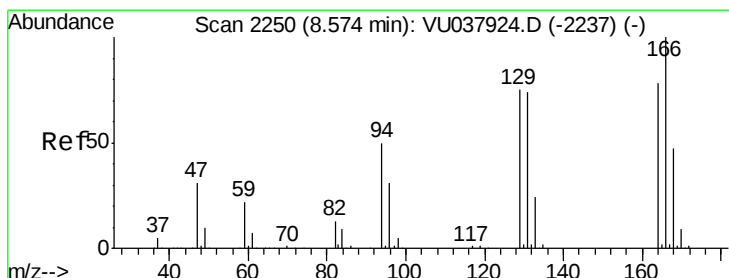
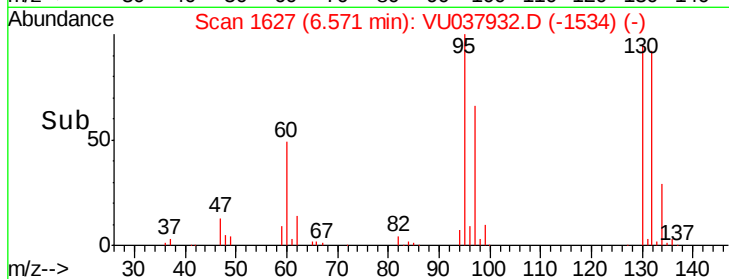
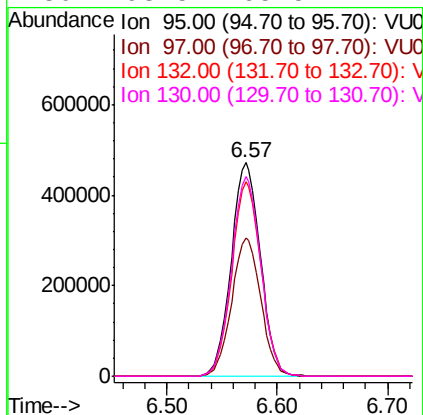
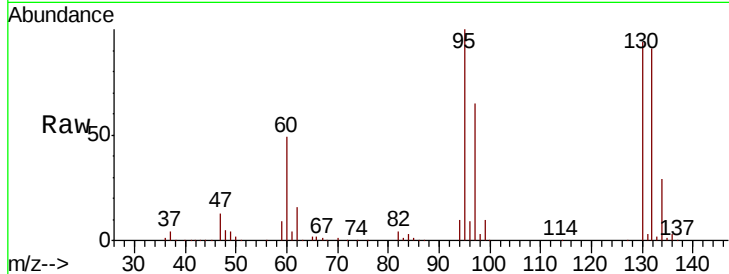




#34  
 Trichloroethene  
 Concen: 198.806 ug/L  
 RT: 6.57 min Scan# 1627  
 Delta R.T. 0.00 min  
 Lab File: VU037932.D  
 Acq: 29 Apr 2020 23:48

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DBEF5

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 95    | Resp: | 866198 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 97       | 64.8  | 44.4  | 82.5   |
| 132      | 90.8  | 65.0  | 120.6  |
| 130      | 93.5  | 65.5  | 121.7  |



#46  
 Tetrachloroethene  
 Concen: 199.130 ug/L  
 RT: 8.57 min Scan# 2250  
 Delta R.T. 0.00 min  
 Lab File: VU037932.D  
 Acq: 29 Apr 2020 23:48

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 634151 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 100.1 | 67.3  | 125.1  |
| 131      | 94.6  | 64.8  | 120.4  |
| 166      | 126.7 | 88.5  | 164.4  |

