

Data File : VU033942.D  
Acq On : 23 Aug 2019 15:04  
Operator : JC/SP  
Sample : K4485-17DL 200X  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
F2B95DL

Quant Time: Aug 26 06:58:30 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM082219WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Aug 26 06:54:44 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 556139   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 567008   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 224980   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 215497   | 44.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 88.38%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 184222   | 47.62    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 95.24%  |
| 11) 1,1-Dichloroethene-d2      | 2.25    | 63    | 315873   | 35.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 71.80%  |
| 21) 2-Butanone-d5              | 4.15    | 46    | 314786   | 95.92    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 95.92%  |
| 24) Chloroform-d               | 4.62    | 84    | 375675   | 47.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.64%  |
| 26) 1,2-Dichloroethane-d4      | 5.28    | 65    | 264643   | 51.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.16% |
| 32) Benzene-d6                 | 5.31    | 84    | 785182   | 48.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.50%  |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 266460   | 50.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 101.96% |
| 41) Toluene-d8                 | 7.55    | 98    | 678301   | 46.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 93.20%  |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 111266   | 46.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 92.26%  |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 187107   | 86.09    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 86.09%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 347894   | 46.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 93.48%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.84   | 152   | 244006   | 53.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 106.30% |

#### Target Compounds

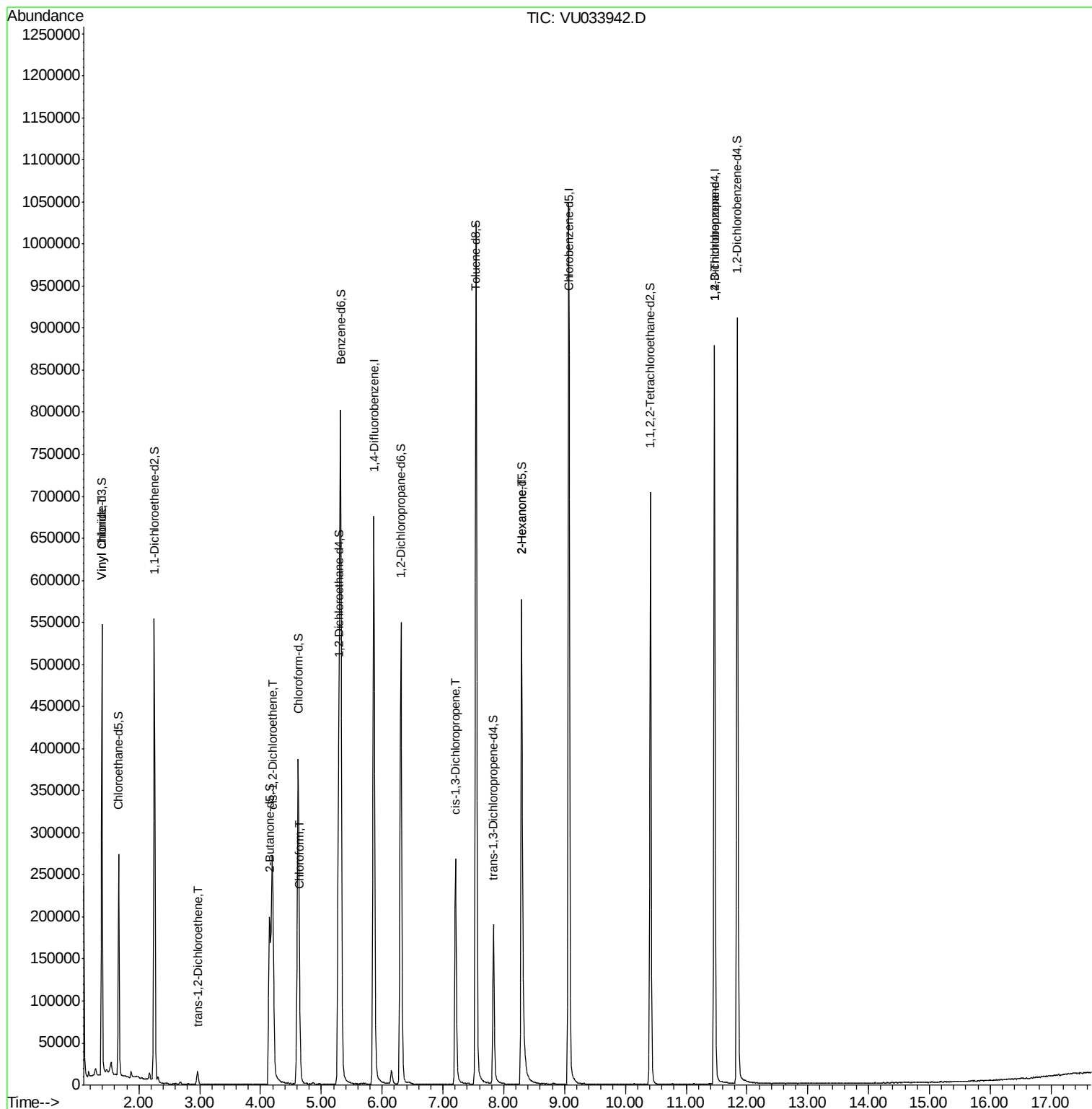
|                              |       |    |        |        |        | Qvalue |
|------------------------------|-------|----|--------|--------|--------|--------|
| 5) Vinyl chloride            | 1.39  | 62 | 147903 | 25.453 | ug/L   | 96     |
| 17) trans-1,2-Dichloroethene | 2.96  | 96 | 6334   | 1.572  | ug/L   | 95     |
| 20) cis-1,2-Dichloroethene   | 4.20  | 96 | 138788 | 31.297 | ug/L   | 99     |
| 25) Chloroform               | 4.65  | 83 | 15102  | 1.899  | ug/L   | 95     |
| 39) cis-1,3-Dichloropropene  | 7.21  | 75 | 6690   | 0.960  | ug/L # | 67     |
| 48) 2-Hexanone               | 8.29  | 43 | 27560  | 5.283  | ug/L # | 43     |
| 59) 1,2,3-Trichloropropane   | 11.47 | 75 | 27611  | 4.606  | ug/L   | 92     |

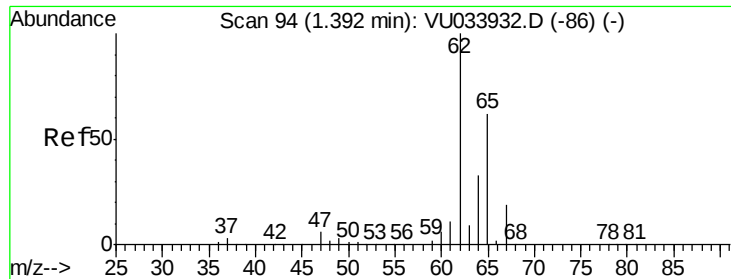
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 25.453 ug/L

RT: 1.39 min Scan# 94

Delta R.T. 0.00 min

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Acq: 23 Aug 2019 15:04

Instrument :

MSVOA\_U

ClientSampleId :

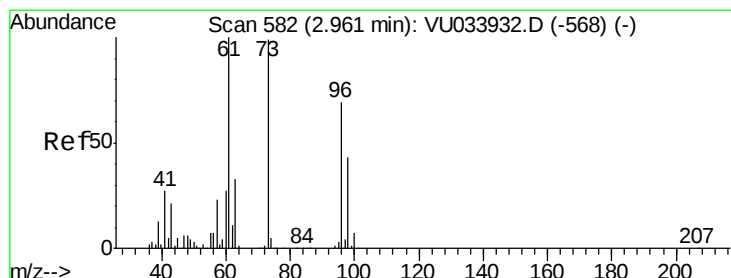
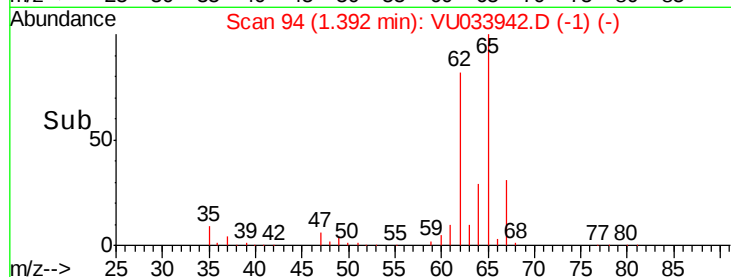
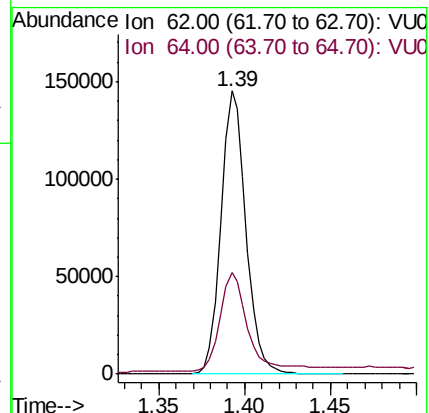
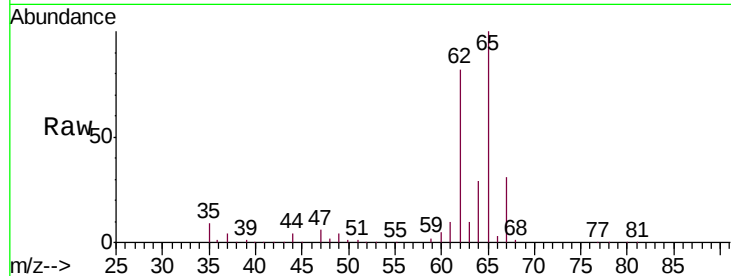
F2B95DL

Tgt Ion: 62 Resp: 147903

Ion Ratio Lower Upper

62 100

64 36.0 23.7 44.1



#17

trans-1,2-Dichloroethene

Concen: 1.572 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033942.D

Acq: 23 Aug 2019 15:04

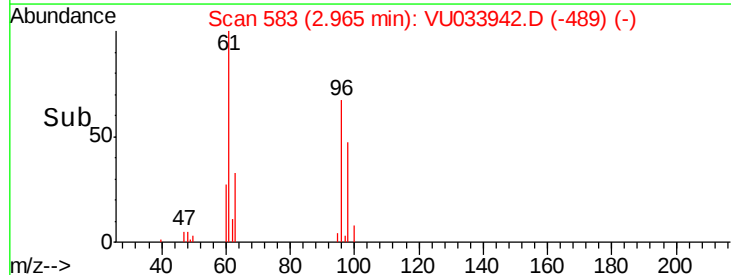
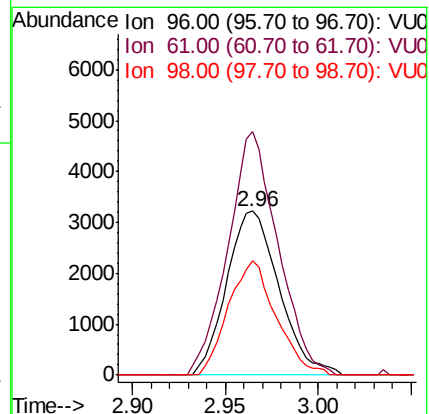
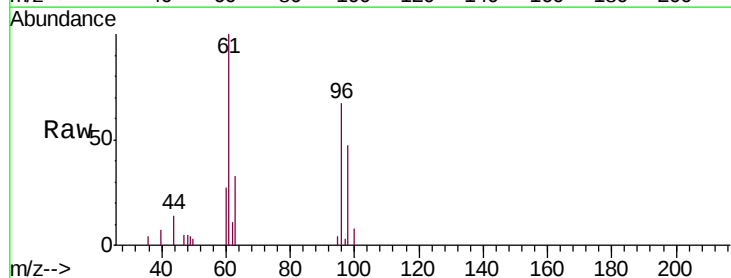
Tgt Ion: 96 Resp: 6334

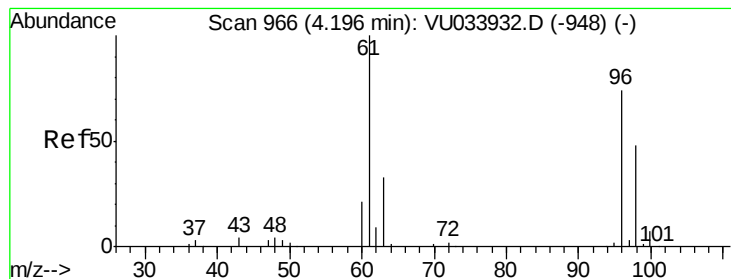
Ion Ratio Lower Upper

96 100

61 148.5 101.2 187.8

98 69.5 44.0 81.6



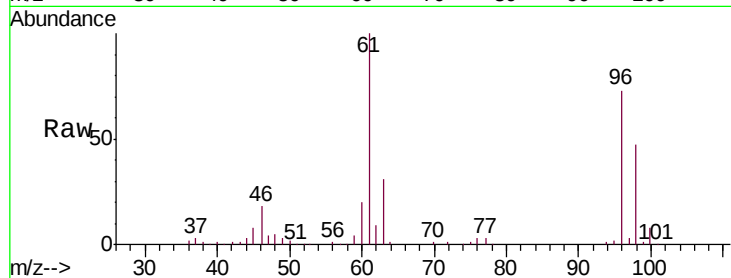


#20

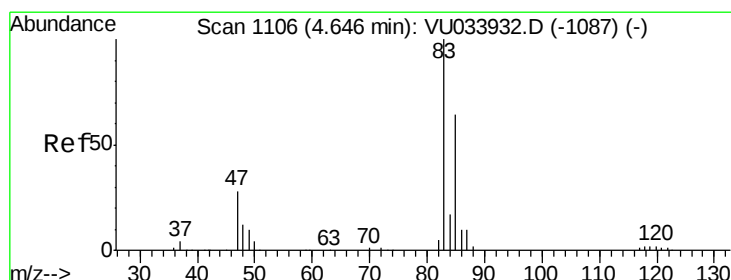
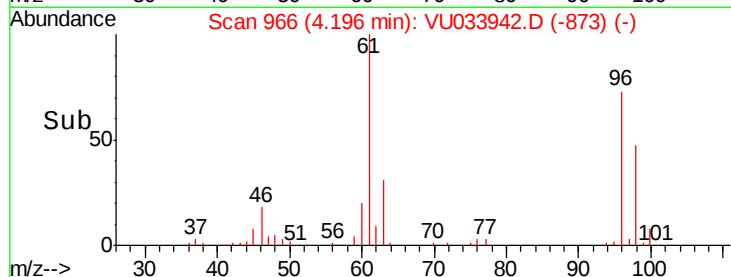
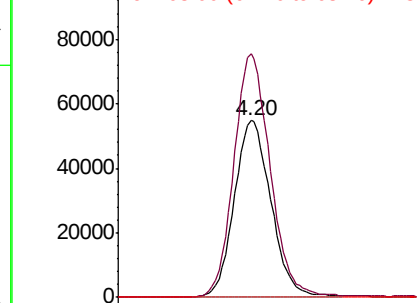
cis-1,2-Dichloroethene  
 Concen: 31.297 ug/L  
 RT: 4.20 min Scan# 966  
 Delta R.T. 0.00 min  
 Lab File: VU033942.D  
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 MSVOA\_U  
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 F2B95DL

Tgt Ion: 96 Resp: 138788  
 Ion Ratio Lower Upper  
 96 100  
 61 137.6 95.5 177.4  
 68 0.0 0.0 0.0



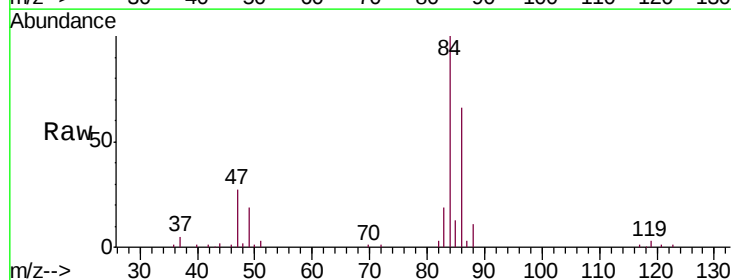
Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.00 (60.70 to 61.70): VU0  
 Ion 68.00 (67.70 to 68.70): VU0



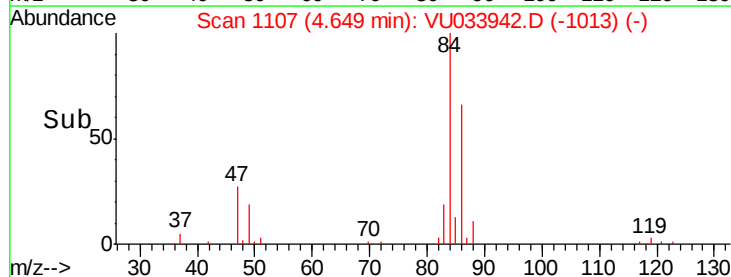
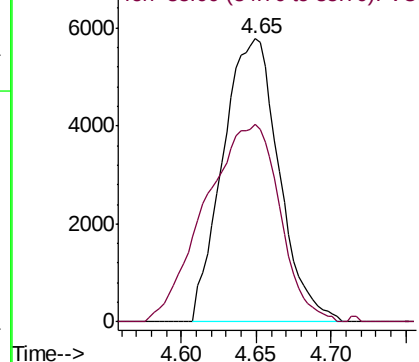
#25

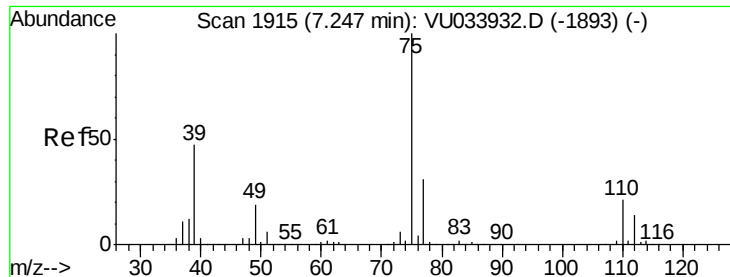
Chloroform  
 Concen: 1.899 ug/L  
 RT: 4.65 min Scan# 1107  
 Delta R.T. 0.00 min  
 Lab File: VU033942.D  
 Acq: 23 Aug 2019 15:04

Tgt Ion: 83 Resp: 15102  
 Ion Ratio Lower Upper  
 83 100  
 85 69.6 46.2 85.8



Abundance Ion 83.00 (82.70 to 83.70): VU0  
 Ion 85.00 (84.70 to 85.70): VU0

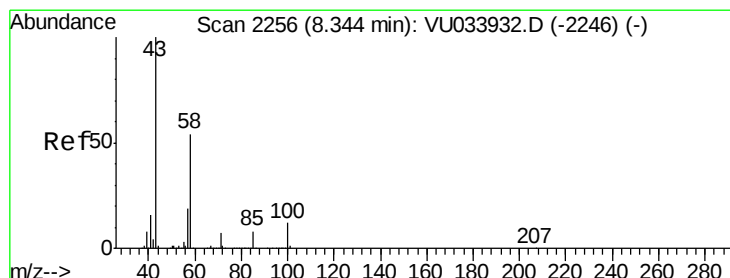
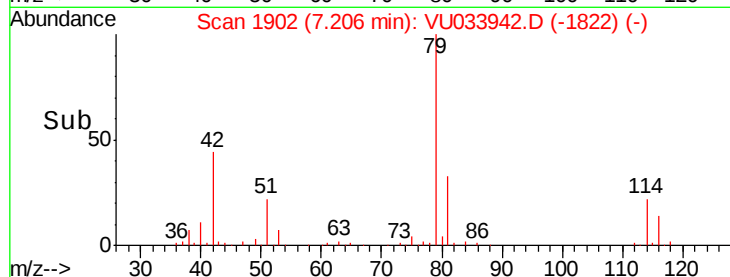
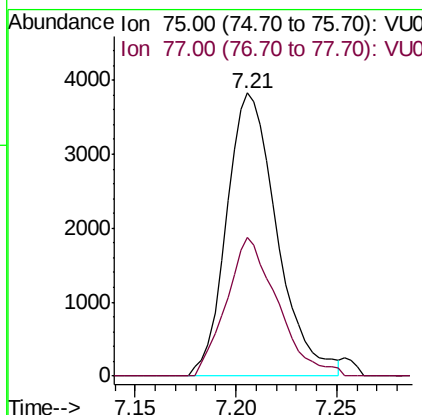
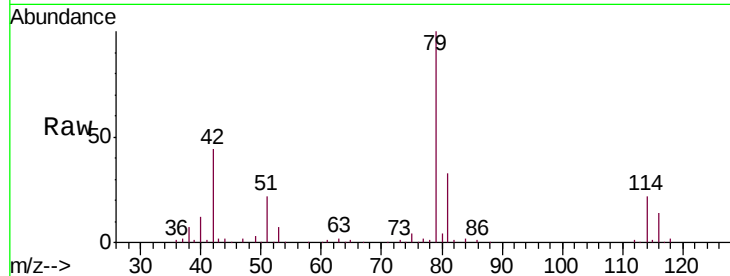




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.960 ug/L  
 RT: 7.21 min Scan# 1902  
 Delta R.T. -0.04 min  
 Lab File: VU033942.D  
 Acq: 23 Aug 2019 15:04

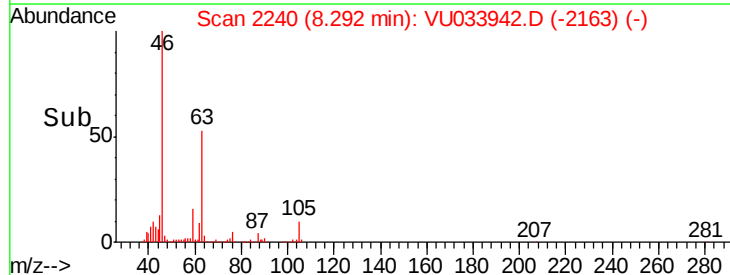
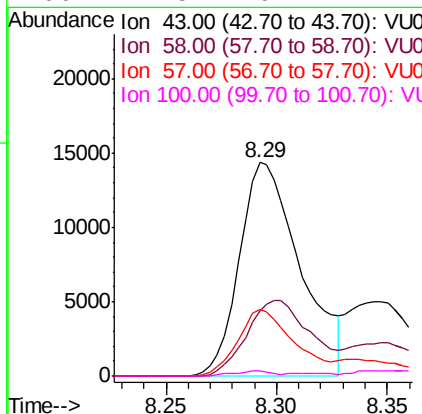
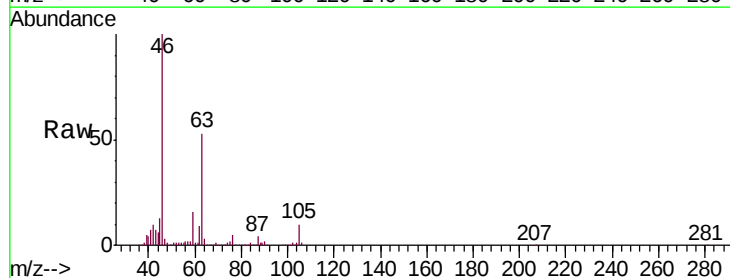
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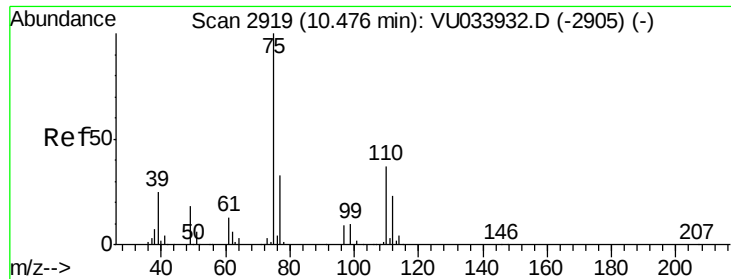
Tgt Ion: 75 Resp: 6690  
 Ion Ratio Lower Upper  
 75 100  
 77 49.1 21.8 40.4#



#48  
 2-Hexanone  
 Concen: 5.283 ug/L  
 RT: 8.29 min Scan# 2240  
 Delta R.T. -0.05 min  
 Lab File: VU033942.D  
 Acq: 23 Aug 2019 15:04

Tgt Ion: 43 Resp: 27560  
 Ion Ratio Lower Upper  
 43 100  
 58 0.0 44.3 66.5#  
 57 28.8 15.3 22.9#  
 100 1.5 9.4 14.2#





#59

1,2,3-Trichloropropane

Concen: 4.606 ug/L

RT: 11.47 min Scan# 3227

Delta R.T. 0.99 min

Lab File: VU033942.D

Acq: 23 Aug 2019 15:04

Instrument :

MSVOA\_U

ClientSampleId :

F2B95DL

Tgt Ion: 75 Resp: 27611

Ion Ratio Lower Upper

75 100

77 36.7 25.8 38.8

