

Data File : VU033922.D  
Acq On : 23 Aug 2019 00:13  
Operator : JC/SP  
Sample : K4485-03  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
F2B15

Quant Time: Aug 23 03:07:07 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM082219WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Aug 23 02:53:44 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 574678   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 585540   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 241445   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |                |     |            |        |      |      |
|--------------------------------|----------------|-----|------------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.39           | 65  | 217372     | 43.13  | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 60 - 135 |     | Recovery = | 86.26% |      |      |
| 7) Chloroethane-d5             | 1.67           | 69  | 181199     | 45.33  | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 70 - 130 |     | Recovery = | 90.66% |      |      |
| 11) 1,1-Dichloroethene-d2      | 2.25           | 63  | 310815     | 34.19  | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 60 - 125 |     | Recovery = | 68.38% |      |      |
| 21) 2-Butanone-d5              | 4.15           | 46  | 306414     | 90.35  | ug/L | 0.00 |
| Spiked Amount 100.000          | Range 40 - 130 |     | Recovery = | 90.35% |      |      |
| 24) Chloroform-d               | 4.62           | 84  | 371204     | 45.25  | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 70 - 125 |     | Recovery = | 90.50% |      |      |
| 26) 1,2-Dichloroethane-d4      | 5.28           | 65  | 256731     | 48.42  | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 70 - 125 |     | Recovery = | 96.84% |      |      |
| 32) Benzene-d6                 | 5.31           | 84  | 784276     | 47.15  | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 70 - 125 |     | Recovery = | 94.30% |      |      |
| 36) 1,2-Dichloropropane-d6     | 6.31           | 67  | 257332     | 47.68  | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 70 - 120 |     | Recovery = | 95.36% |      |      |
| 41) Toluene-d8                 | 7.55           | 98  | 663657     | 44.15  | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 80 - 120 |     | Recovery = | 88.30% |      |      |
| 43) trans-1,3-Dichloropropene- | 7.83           | 79  | 107917     | 43.32  | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 60 - 125 |     | Recovery = | 86.64% |      |      |
| 47) 2-Hexanone-d5              | 8.29           | 63  | 200782     | 89.46  | ug/L | 0.00 |
| Spiked Amount 100.000          | Range 45 - 130 |     | Recovery = | 89.46% |      |      |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41          | 84  | 346744     | 45.11  | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 65 - 120 |     | Recovery = | 90.22% |      |      |
| 64) 1,2-Dichlorobenzene-d4     | 11.84          | 152 | 244328     | 49.59  | ug/L | 0.00 |
| Spiked Amount 50.000           | Range 80 - 120 |     | Recovery = | 99.18% |      |      |

#### Target Compounds

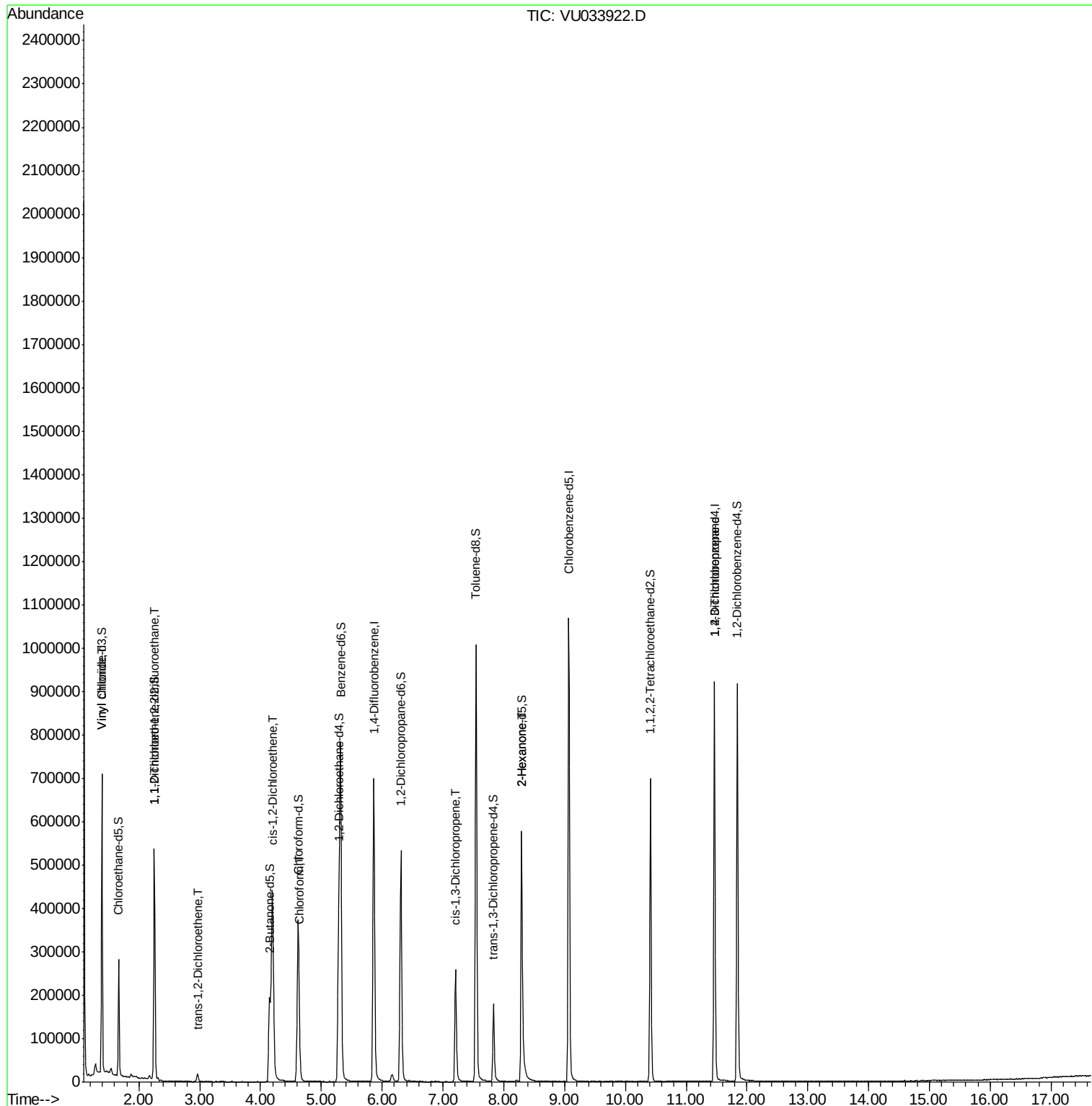
|                                |       |     |        |        |        | Qvalue |
|--------------------------------|-------|-----|--------|--------|--------|--------|
| 5) Vinyl chloride              | 1.39  | 62  | 243471 | 40.548 | ug/L   | 96     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.26  | 101 | 2880   | 0.715  | ug/L # | 22     |
| 17) trans-1,2-Dichloroethene   | 2.96  | 96  | 6834   | 1.642  | ug/L   | 96     |
| 20) cis-1,2-Dichloroethene     | 4.20  | 96  | 236046 | 51.512 | ug/L   | 97     |
| 25) Chloroform                 | 4.64  | 83  | 10882  | 1.324  | ug/L   | 98     |
| 39) cis-1,3-Dichloropropene    | 7.21  | 75  | 6257   | 0.869  | ug/L # | 50     |
| 48) 2-Hexanone                 | 8.29  | 43  | 26149  | 4.854  | ug/L # | 73     |
| 59) 1,2,3-Trichloropropane     | 11.47 | 75  | 30105  | 4.863  | ug/L   | 96     |

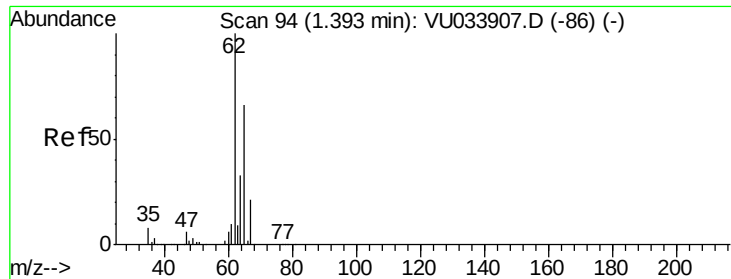
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Fri Aug 23 02:53:44 2019  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 40.548 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033922.D

Acq: 23 Aug 2019 00:13

Instrument :

MSVOA\_U

ClientSampled :

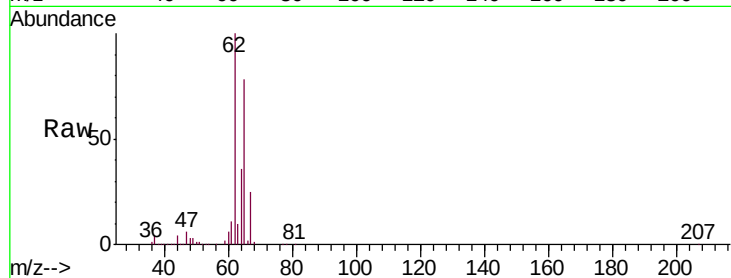
F2B15

Tgt Ion: 62 Resp: 243471

Ion Ratio Lower Upper

62 100

64 36.2 23.7 44.1



Abundance Ion 62.00 (61.70 to 62.70): VU033907.D (-86) (-)

Ion 64.00 (63.70 to 64.70): VU033907.D (-86) (-)

1.39

250000

200000

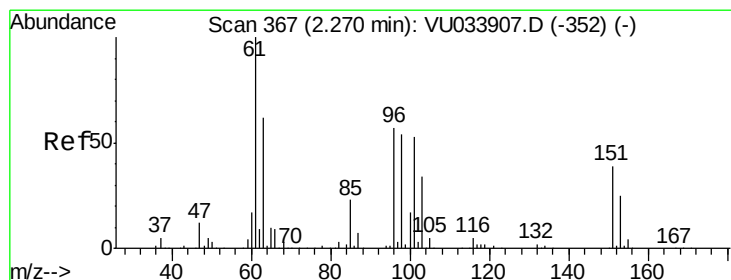
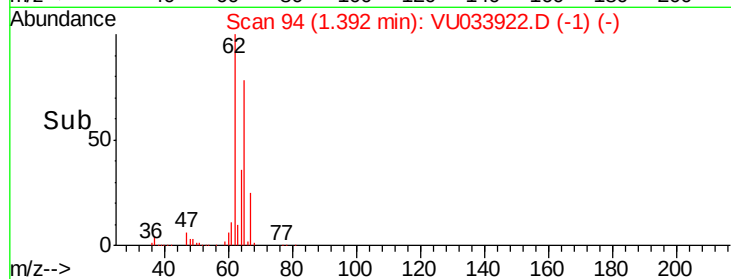
150000

100000

50000

0

Time-->



#10

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

Concen: 0.715 ug/L

RT: 2.26 min Scan# 363

Delta R.T. -0.01 min

Lab File: VU033922.D

Acq: 23 Aug 2019 00:13

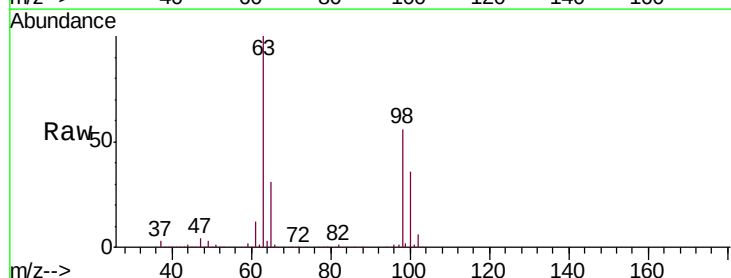
Tgt Ion: 101 Resp: 2880

Ion Ratio Lower Upper

101 100

85 2.3 33.7 50.5#

151 0.0 57.8 86.6#



Abundance Ion 101.00 (100.70 to 101.70): VU033907.D (-352) (-)

Ion 85.00 (84.70 to 85.70): VU033907.D (-352) (-)

Ion 151.00 (150.70 to 151.70): VU033907.D (-352) (-)

2.26

2000

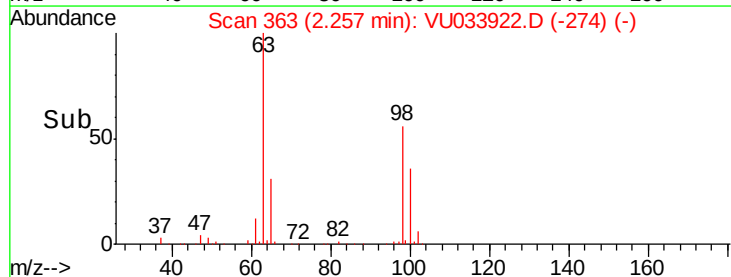
1500

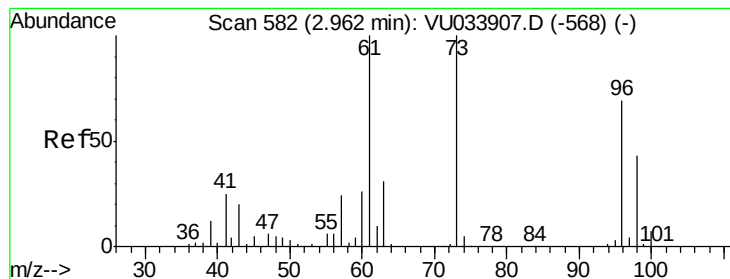
1000

500

0

Time-->





#17

trans-1,2-Dichloroethene

Concen: 1.642 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033922.D

Acq: 23 Aug 2019 00:13

Instrument :

MSVOA\_U

ClientSampleId :

F2B15

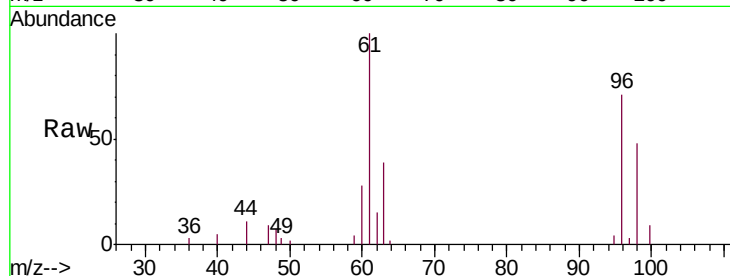
Tgt Ion: 96 Resp: 6834

Ion Ratio Lower Upper

96 100

61 141.3 101.2 187.8

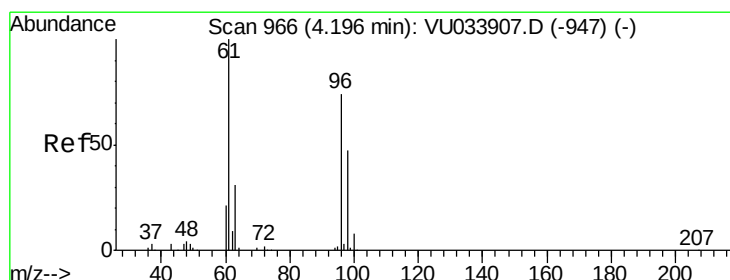
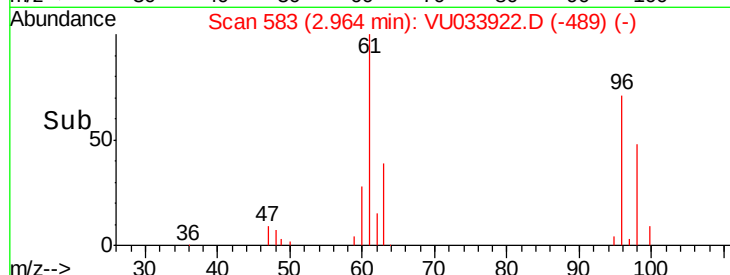
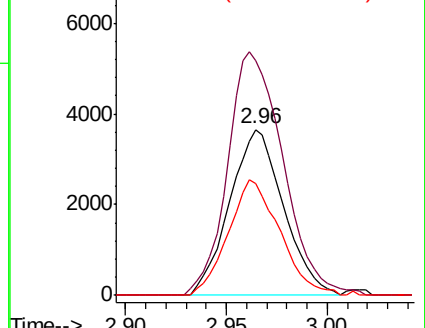
98 67.8 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VU033907.D (-568) (-)

Ion 61.00 (60.70 to 61.70): VU033907.D (-568) (-)

Ion 98.00 (97.70 to 98.70): VU033907.D (-568) (-)



#20

cis-1,2-Dichloroethene

Concen: 51.512 ug/L

RT: 4.20 min Scan# 966

Delta R.T. -0.00 min

Lab File: VU033922.D

Acq: 23 Aug 2019 00:13

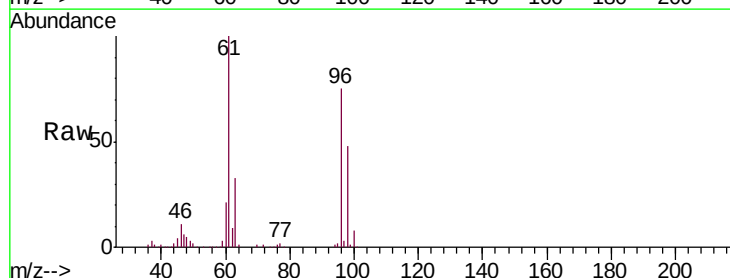
Tgt Ion: 96 Resp: 236046

Ion Ratio Lower Upper

96 100

61 132.9 95.5 177.4

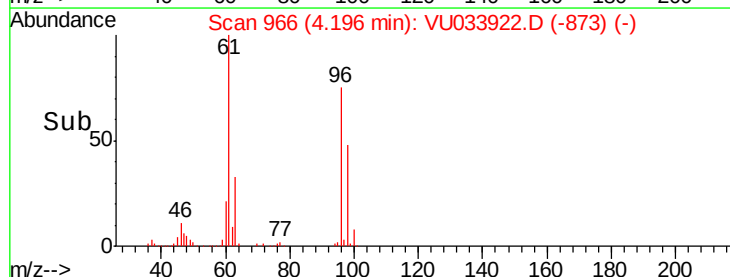
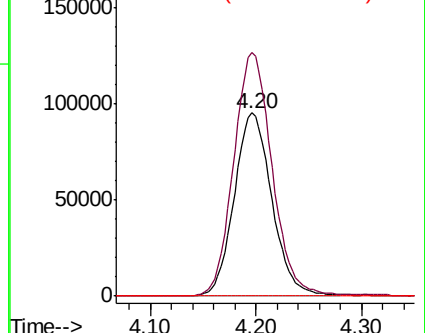
68 0.0 0.0 0.0

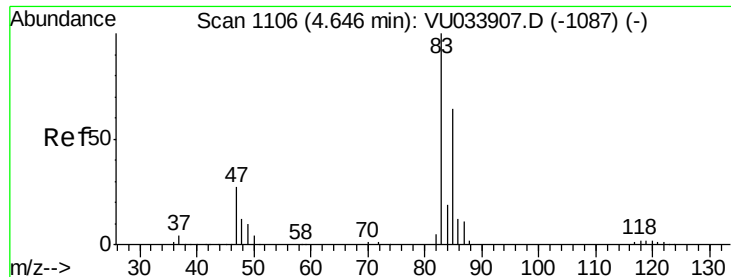


Abundance Ion 96.00 (95.70 to 96.70): VU033907.D (-947) (-)

Ion 61.00 (60.70 to 61.70): VU033907.D (-947) (-)

Ion 68.00 (67.70 to 68.70): VU033907.D (-947) (-)

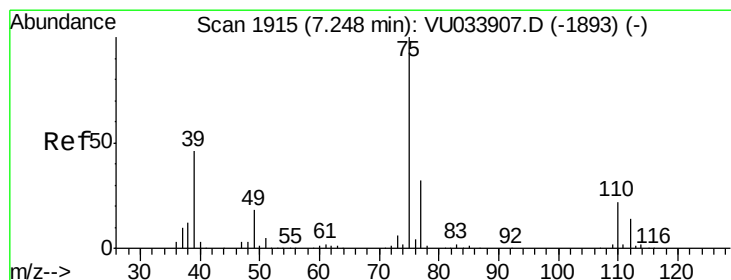
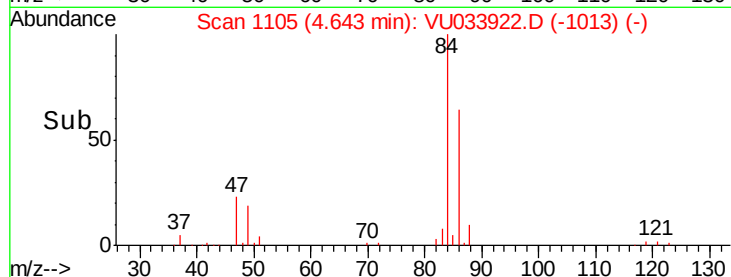
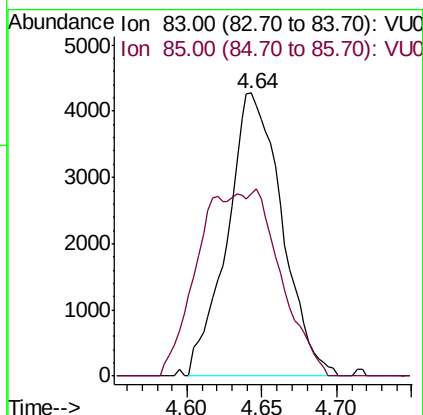
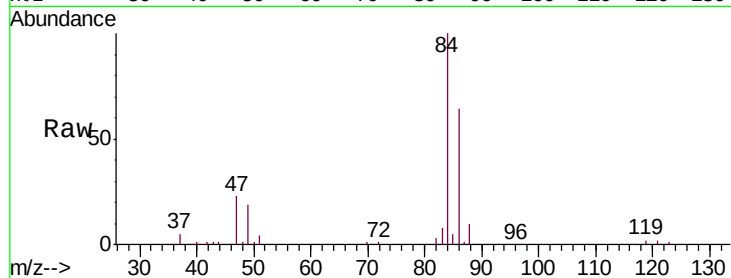




#25  
Chloroform  
Concen: 1.324 ug/L  
RT: 4.64 min Scan# 1105  
Delta R.T. -0.00 min  
Lab File: VU033922.D  
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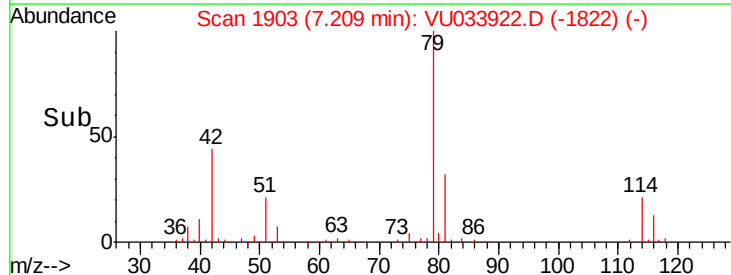
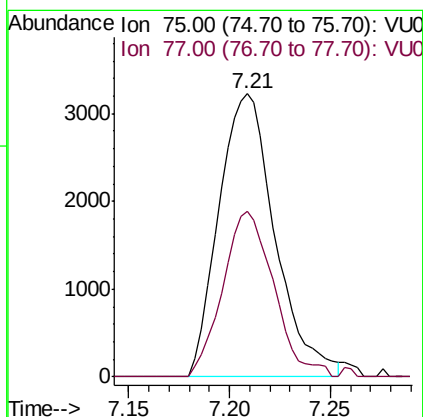
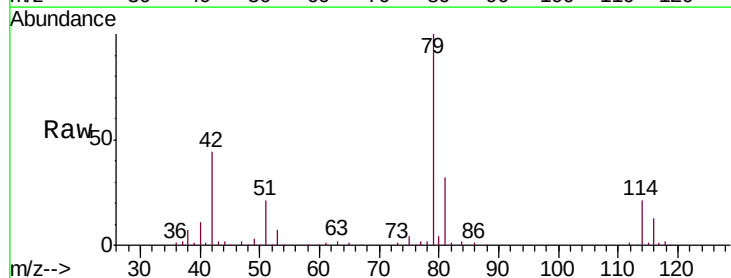
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MSVOA\_U  
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F2B15

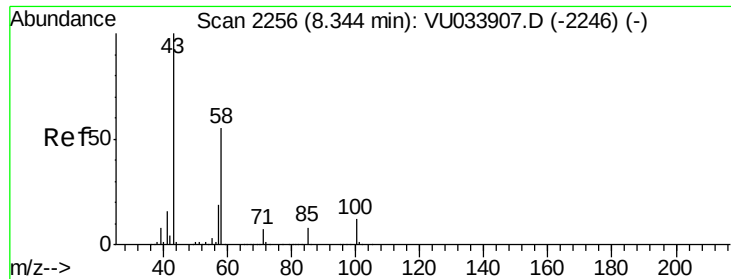
Tgt Ion: 83 Resp: 10882  
Ion Ratio Lower Upper  
83 100  
85 64.5 46.2 85.8



#39  
cis-1,3-Dichloropropene  
Concen: 0.869 ug/L  
RT: 7.21 min Scan# 1903  
Delta R.T. -0.04 min  
Lab File: VU033922.D  
Acq: 23 Aug 2019 00:13

Tgt Ion: 75 Resp: 6257  
Ion Ratio Lower Upper  
75 100  
77 58.7 21.8 40.4#

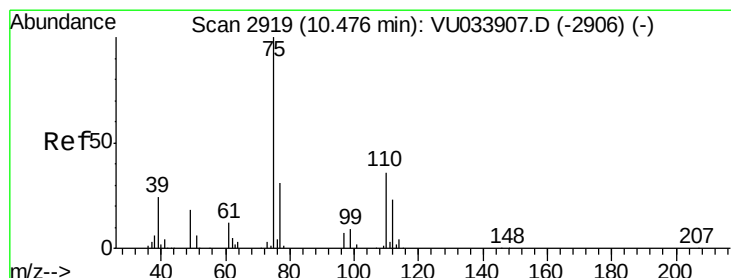
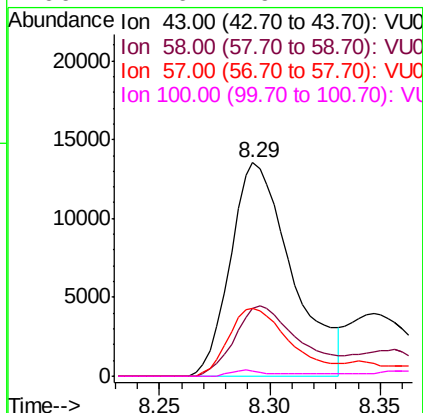
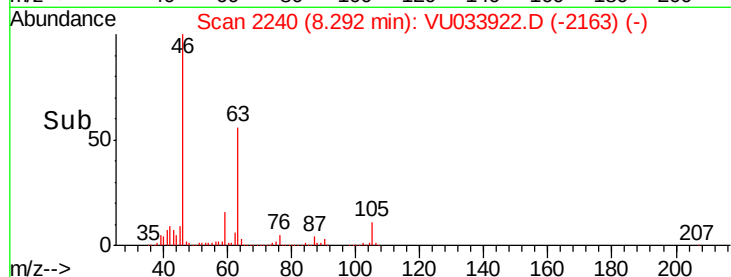
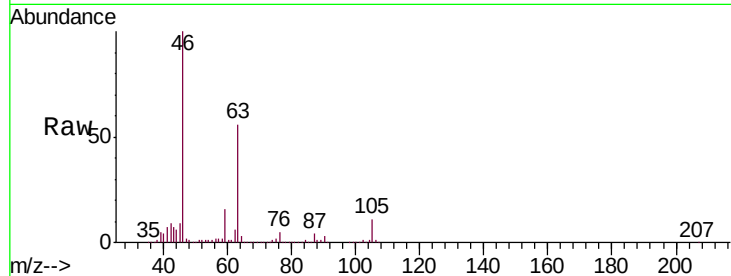




#48  
 2-Hexanone  
 Concen: 4.854 ug/L  
 RT: 8.29 min Scan# 2240  
 Delta R.T. -0.05 min  
 Lab File: VU033922.D  
 Acq: 23 Aug 2019 00:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 F2B15

Tgt Ion: 43 Resp: 26149  
 Ion Ratio Lower Upper  
 43 100  
 58 35.9 44.3 66.5#  
 57 32.2 15.3 22.9#  
 100 1.6 9.4 14.2#



#59  
 1,2,3-Trichloropropane  
 Concen: 4.863 ug/L  
 RT: 11.47 min Scan# 3227  
 Delta R.T. 0.99 min  
 Lab File: VU033922.D  
 Acq: 23 Aug 2019 00:13

Tgt Ion: 75 Resp: 30105  
 Ion Ratio Lower Upper  
 75 100  
 77 34.3 25.8 38.8

