

Data File : VU035414.D  
Acq On : 23 Oct 2019 17:10  
Operator : JC/SP  
Sample : K5461-09DL 10X  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
H0G19DL

Quant Time: Oct 24 05:24:13 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR101719WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Oct 24 05:20:56 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 238795   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 240833   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 87253    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 62832    | 4.31     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 86.20%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 64284    | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 96.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 90976    | 3.38     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 67.60%  |
| 20) 2-Butanone-d5              | 4.71   | 46    | 240268   | 57.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 114.84% |
| 24) Chloroform-d               | 5.11   | 84    | 141012   | 5.30     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 106.00% |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 81192    | 5.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 110.20% |
| 32) Benzene-d6                 | 5.77   | 84    | 263624   | 4.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.74   | 67    | 93453    | 5.34     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 106.80% |
| 41) Toluene-d8                 | 7.93   | 98    | 221531   | 4.20     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 84.00%  |
| 43) trans-1,3-Dichloropropene- | 8.21   | 79    | 33120    | 3.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 78.00%  |
| 46) 2-Hexanone-d5              | 8.68   | 63    | 168243   | 44.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 89.90%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.79  | 84    | 84652    | 5.43     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 108.60% |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 77895    | 4.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 98.00%  |

#### Target Compounds

|                              |       |     |        |              | Qvalue |
|------------------------------|-------|-----|--------|--------------|--------|
| 5) Vinyl chloride            | 1.62  | 62  | 14017  | 0.677 ug/L # | 70     |
| 12) 1,1-Dichloroethene       | 2.60  | 96  | 1875   | 0.122 ug/L # | 1      |
| 16) Methylene chloride       | 3.08  | 84  | 3087   | 0.167 ug/L   | 87     |
| 17) Methyl tert-butyl Ether  | 3.43  | 73  | 73149  | 1.772 ug/L   | 97     |
| 18) trans-1,2-Dichloroethene | 3.39  | 96  | 5638   | 0.341 ug/L   | 93     |
| 19) 1,1-Dichloroethane       | 3.91  | 63  | 4806   | 0.161 ug/L   | 92     |
| 22) cis-1,2-Dichloroethene   | 4.72  | 96  | 136574 | 7.463 ug/L   | 97     |
| 25) Chloroform               | 5.13  | 83  | 8218   | 0.250 ug/L   | 91     |
| 34) Trichloroethene          | 6.58  | 95  | 242349 | 12.721 ug/L  | 98     |
| 35) Methylcyclohexane        | 6.73  | 83  | 21398  | 0.672 ug/L # | 18     |
| 37) 1,2-Dichloropropane      | 6.73  | 63  | 10248  | 0.570 ug/L # | 86     |
| 39) cis-1,3-Dichloropropene  | 7.60  | 75  | 2418   | 0.080 ug/L # | 60     |
| 47) Tetrachloroethene        | 8.58  | 164 | 6310   | 0.398 ug/L   | 94     |
| 48) 2-Hexanone               | 8.73  | 43  | 10515  | 1.235 ug/L # | 94     |
| 49) Dibromochloromethane     | 8.58  | 129 | 5328   | 0.315 ug/L # | 11     |
| 59) 1,2,3-Trichloropropane   | 11.84 | 75  | 11101  | 0.886 ug/L   | 95     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU102319\  
Quantitation Report (Not Reviewed)

Data File : VU035414.D  
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Quant Time: Oct 24 05:24:13 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR101719WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Oct 24 05:20:56 2019  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

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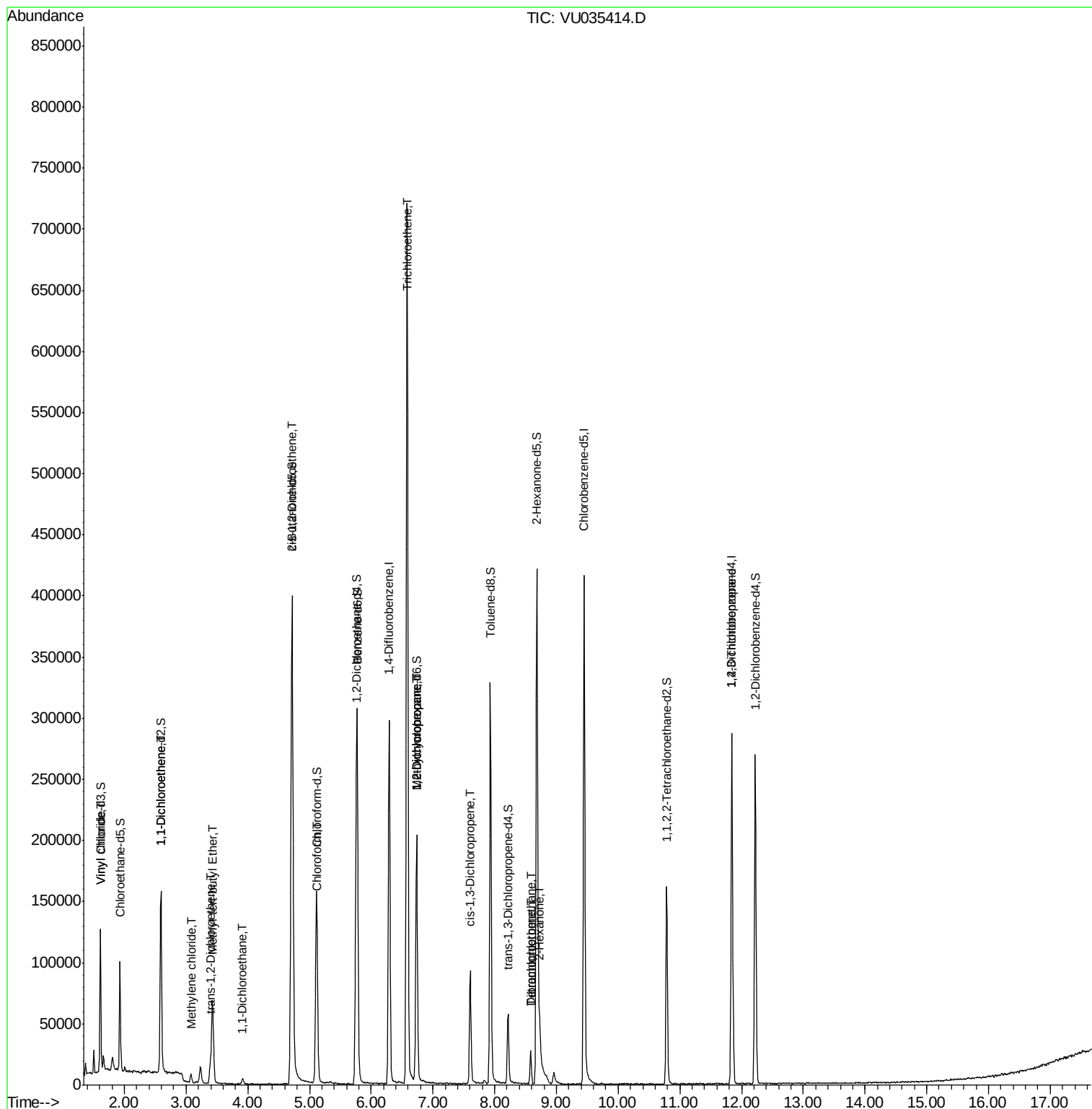
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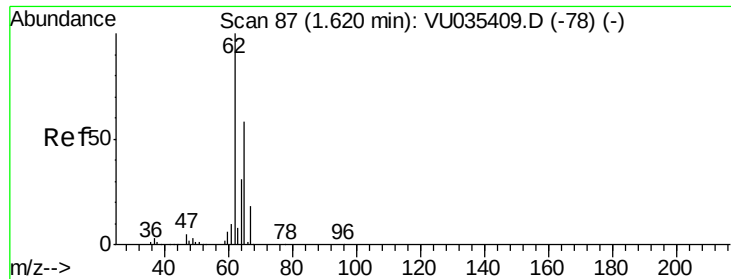
Data File : VU035414.D

```
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Sample       : K5461-09DL 10X
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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.677 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU035414.D

Acq: 23 Oct 2019 17:10

Instrument :

MSVOA\_U

ClientSampleId :

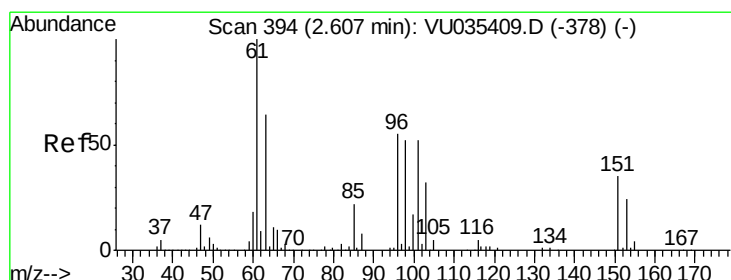
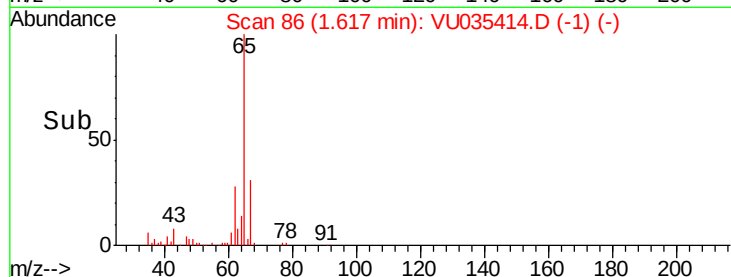
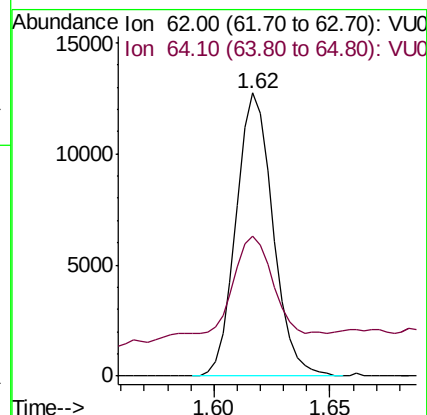
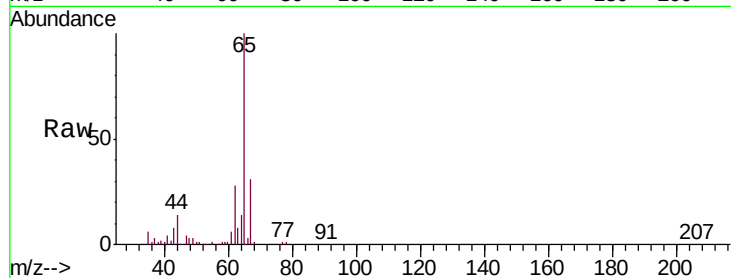
H0G19DL

Tgt Ion: 62 Resp: 14017

Ion Ratio Lower Upper

62 100

64 49.4 22.9 42.5#



#12

1,1-Dichloroethene

Concen: 0.122 ug/L

RT: 2.60 min Scan# 391

Delta R.T. -0.01 min

Lab File: VU035414.D

Acq: 23 Oct 2019 17:10

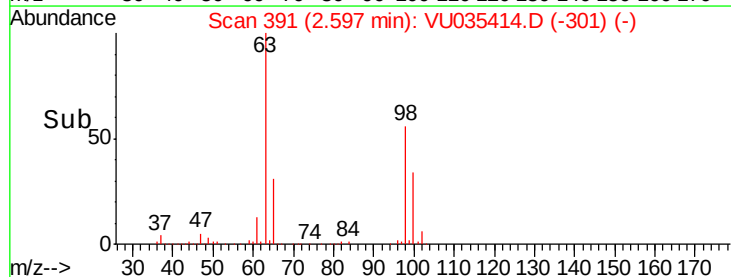
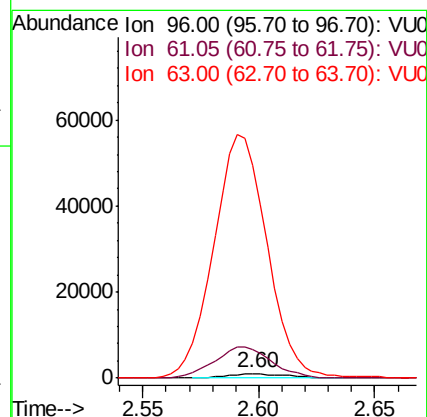
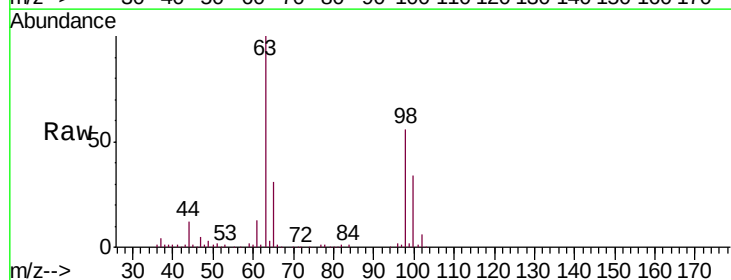
Tgt Ion: 96 Resp: 1875

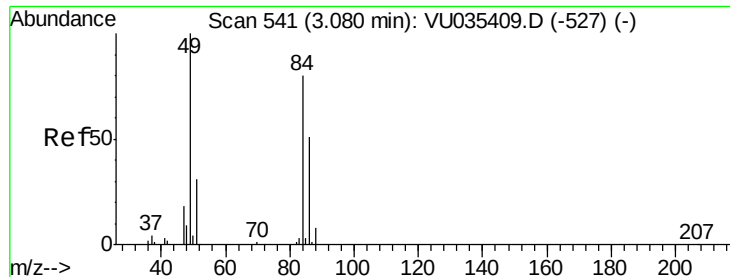
Ion Ratio Lower Upper

96 100

61 605.4 120.6 224.0#

63 4503.5 86.8 161.2#

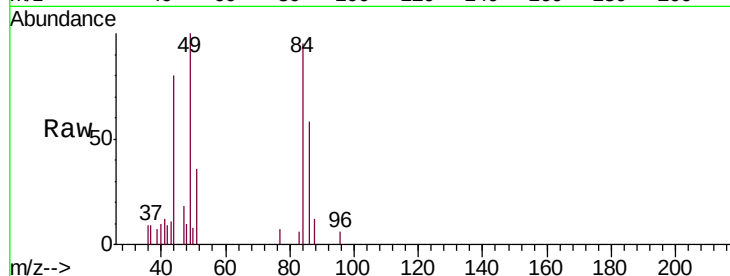




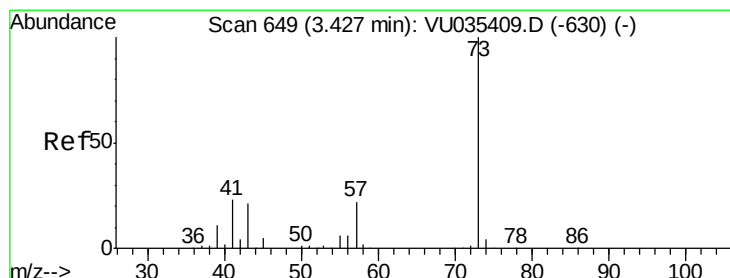
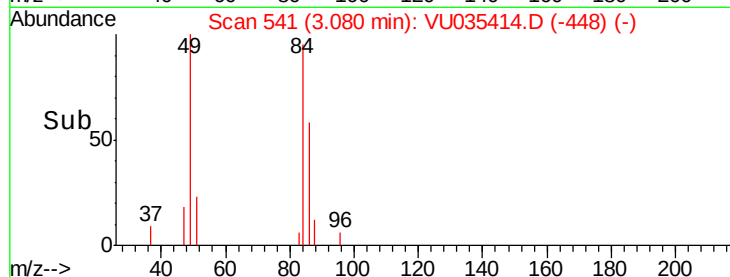
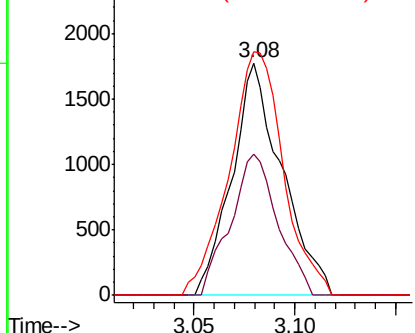
#16  
Methylene chloride  
Concen: 0.167 ug/L  
RT: 3.08 min Scan# 541  
Delta R.T. 0.00 min  
Lab File: VU035414.D  
Acq: 23 Oct 2019 17:10

Instrument :  
MSVOA\_U  
ClientSampleId :  
H0G19DL

Tgt Ion: 84 Resp: 3087  
Ion Ratio Lower Upper  
84 100  
86 60.7 45.4 84.2  
49 104.7 86.8 161.2

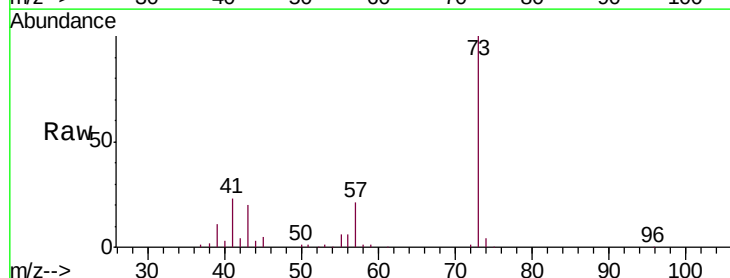


Abundance Ion 84.05 (83.75 to 84.75): VU0  
Ion 86.00 (85.70 to 86.70): VU0  
Ion 49.10 (48.80 to 49.80): VU0

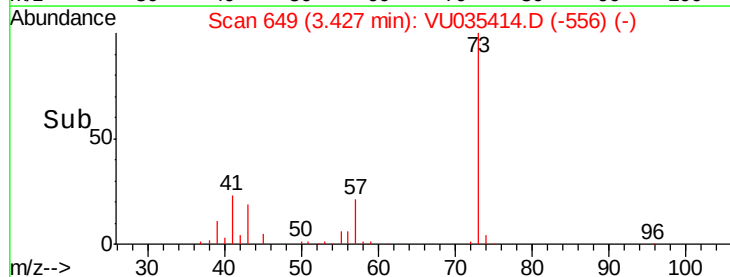
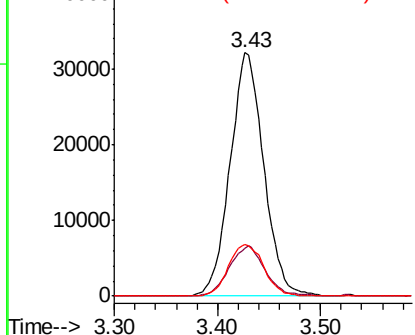


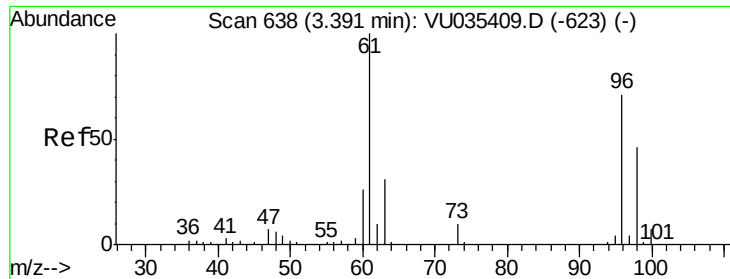
#17  
Methyl tert-butyl Ether  
Concen: 1.772 ug/L  
RT: 3.43 min Scan# 649  
Delta R.T. 0.00 min  
Lab File: VU035414.D  
Acq: 23 Oct 2019 17:10

Tgt Ion: 73 Resp: 73149  
Ion Ratio Lower Upper  
73 100  
43 22.0 16.0 24.0  
57 22.3 17.4 26.2



Abundance Ion 73.10 (72.80 to 73.80): VU0  
Ion 43.05 (42.75 to 43.75): VU0  
Ion 57.10 (56.80 to 57.80): VU0





#18

trans-1,2-Dichloroethene

Concen: 0.341 ug/L

RT: 3.39 min Scan# 637

Delta R.T. -0.00 min

Lab File: VU035414.D

Acq: 23 Oct 2019 17:10

Instrument :

MSVOA\_U

ClientSampleId :

H0G19DL

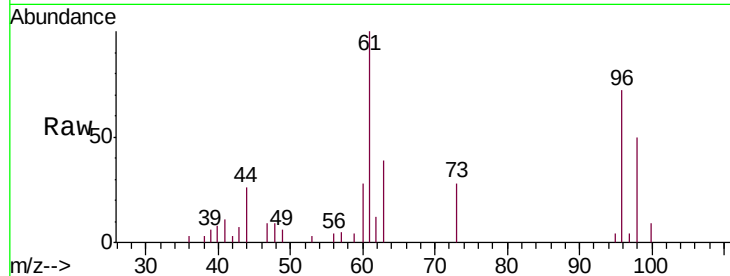
Tgt Ion: 96 Resp: 5638

Ion Ratio Lower Upper

96 100

61 138.9 93.0 172.6

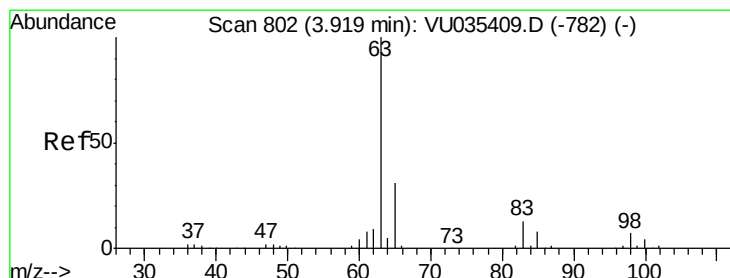
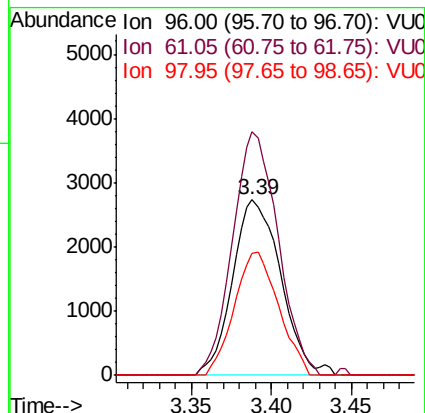
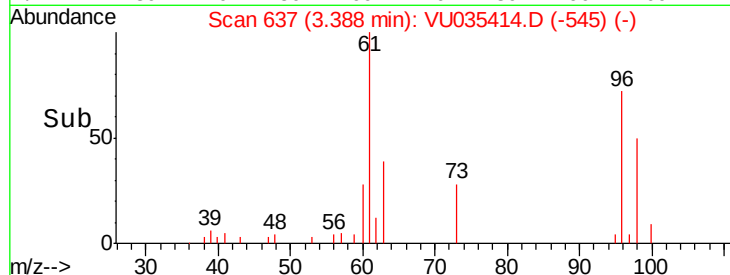
98 69.8 43.7 81.1



Abundance Ion 96.00 (95.70 to 96.70): VU035414.D (-545) (-)

Ion 61.05 (60.75 to 61.75): VU035414.D (-545) (-)

Ion 97.95 (97.65 to 98.65): VU035414.D (-545) (-)



#19

1,1-Dichloroethane

Concen: 0.161 ug/L

RT: 3.91 min Scan# 800

Delta R.T. -0.01 min

Lab File: VU035414.D

Acq: 23 Oct 2019 17:10

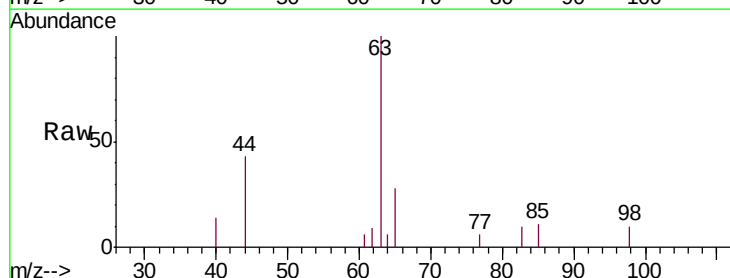
Tgt Ion: 63 Resp: 4806

Ion Ratio Lower Upper

63 100

65 28.1 22.4 41.6

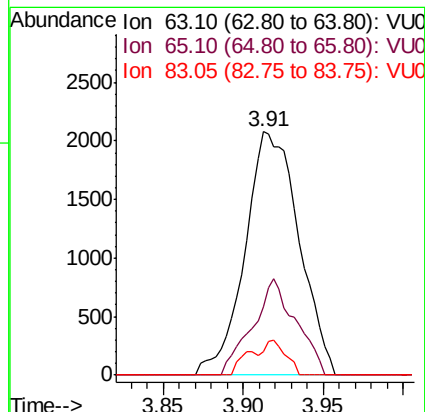
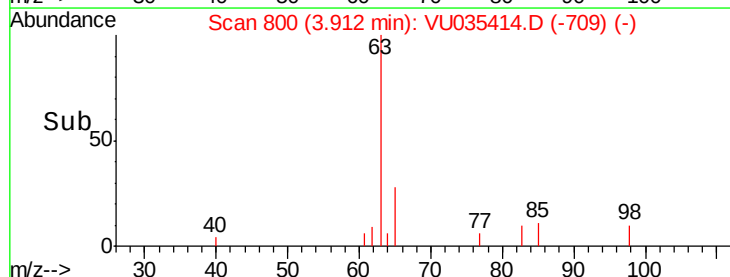
83 9.7 9.3 17.3

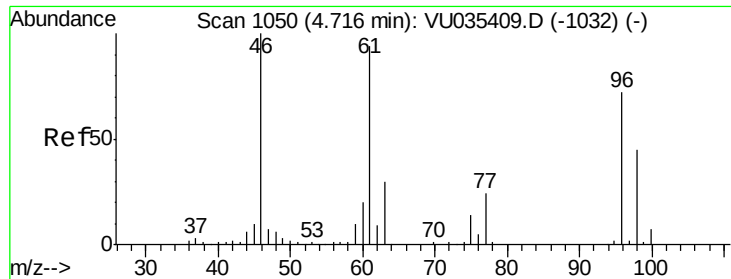


Abundance Ion 63.10 (62.80 to 63.80): VU035414.D (-709) (-)

Ion 65.10 (64.80 to 65.80): VU035414.D (-709) (-)

Ion 83.05 (82.75 to 83.75): VU035414.D (-709) (-)





#22

cis-1,2-Dichloroethene

Concen: 7.463 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU035414.D

Acq: 23 Oct 2019 17:10

Instrument :

MSVOA\_U

ClientSampleId :

H0G19DL

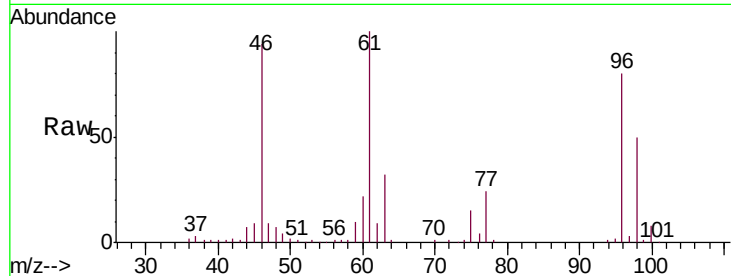
Tgt Ion: 96 Resp: 136574

Ion Ratio Lower Upper

96 100

61 125.1 89.7 166.5

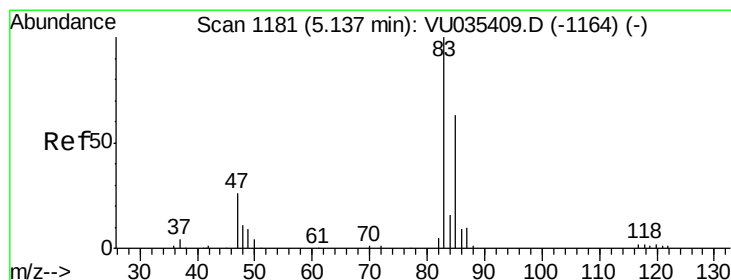
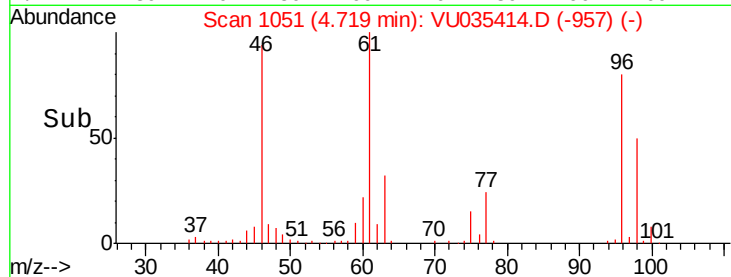
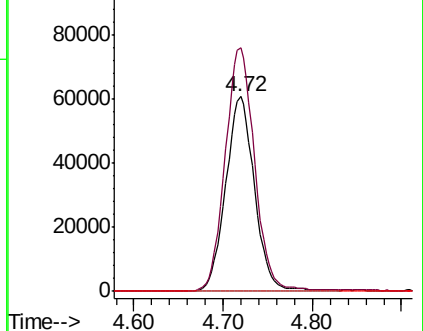
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU035414.D (-957) (-)

Ion 61.05 (60.75 to 61.75): VU035414.D (-957) (-)

Ion 68.15 (67.85 to 68.85): VU035414.D (-957) (-)



#25

Chloroform

Concen: 0.250 ug/L

RT: 5.13 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VU035414.D

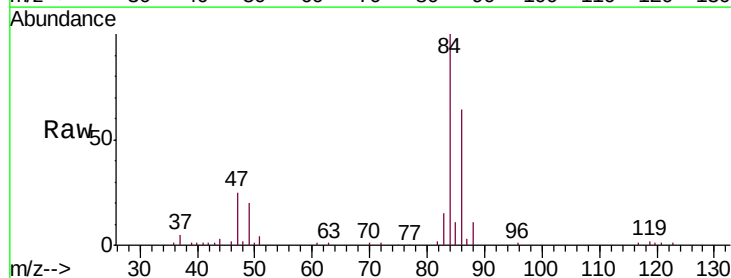
Acq: 23 Oct 2019 17:10

Tgt Ion: 83 Resp: 8218

Ion Ratio Lower Upper

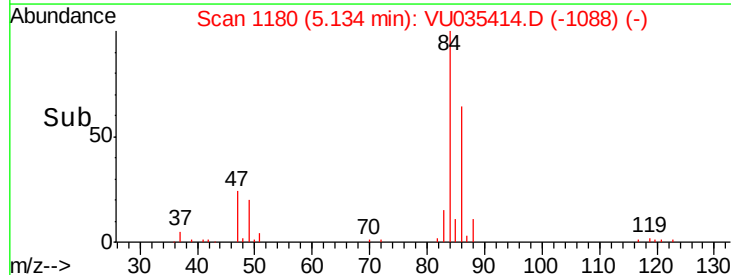
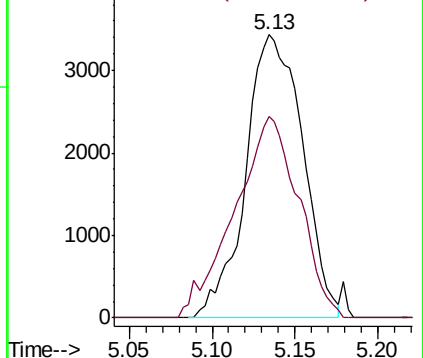
83 100

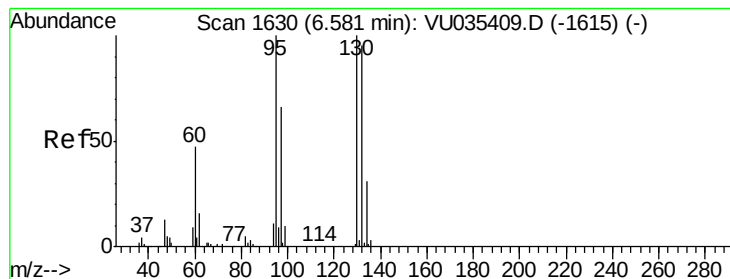
85 71.3 45.1 83.9



Abundance Ion 83.05 (82.75 to 83.75): VU035414.D (-1088) (-)

Ion 85.00 (84.70 to 85.70): VU035414.D (-1088) (-)





#34

Trichloroethene

Concen: 12.721 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU035414.D

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Instrument :

MSVOA\_U

ClientSampleId :

H0G19DL

Tgt Ion: 95 Resp: 242349

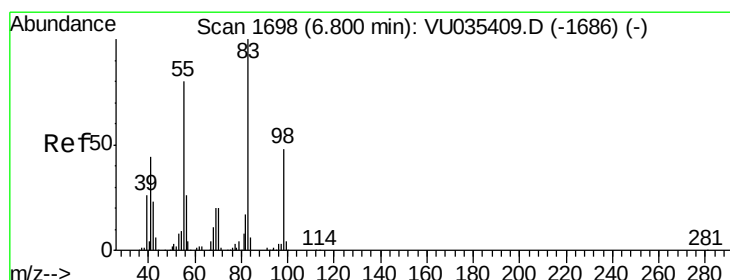
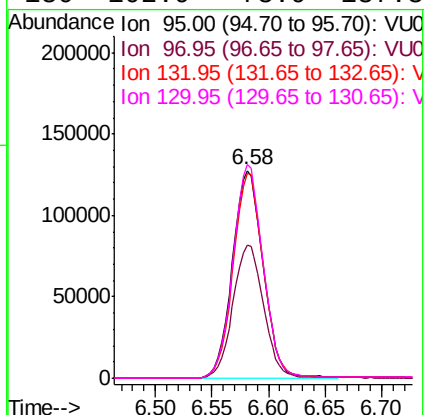
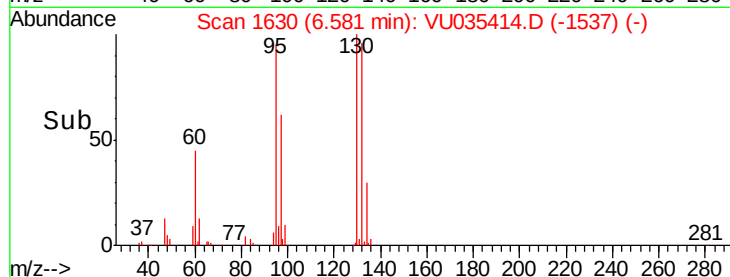
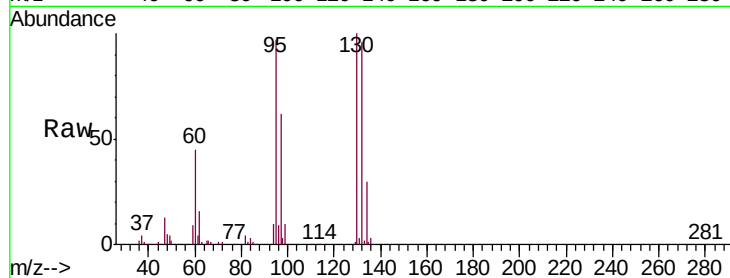
Ion Ratio Lower Upper

95 100

97 64.1 46.6 86.6

132 98.9 68.7 127.7

130 102.9 73.9 137.3



#35

Methylcyclohexane

Concen: 0.672 ug/L

RT: 6.73 min Scan# 1677

Delta R.T. -0.07 min

Lab File: VU035414.D

Acq: 23 Oct 2019 17:10

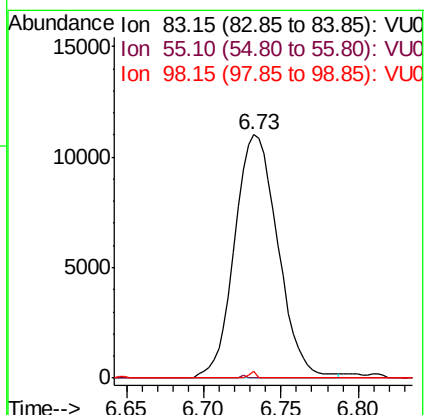
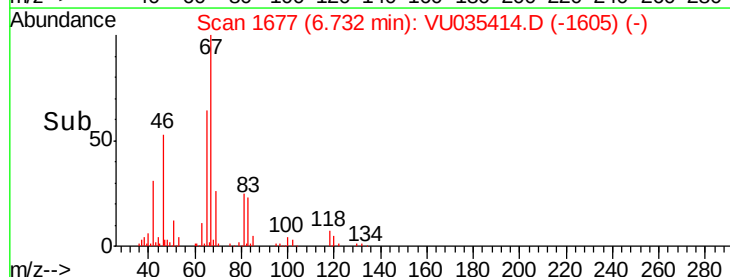
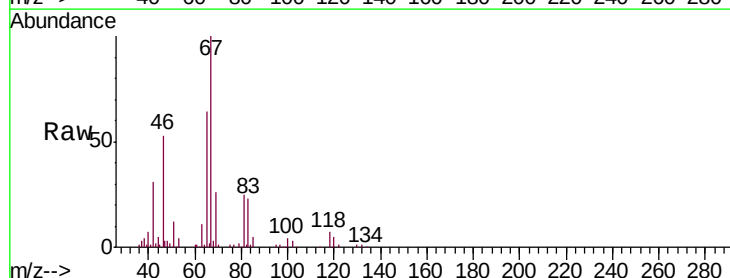
Tgt Ion: 83 Resp: 21398

Ion Ratio Lower Upper

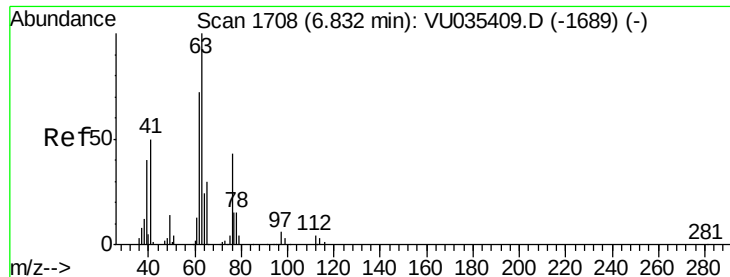
83 100

55 0.1 60.4 90.6#

98 0.0 39.5 59.3#



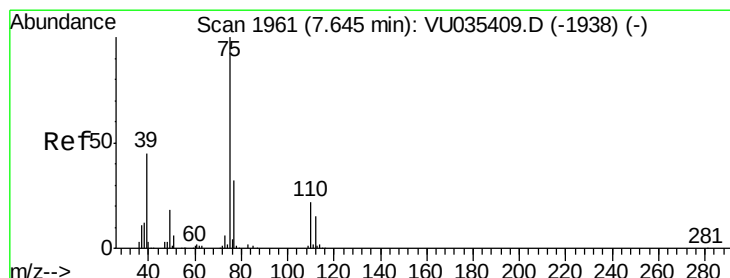
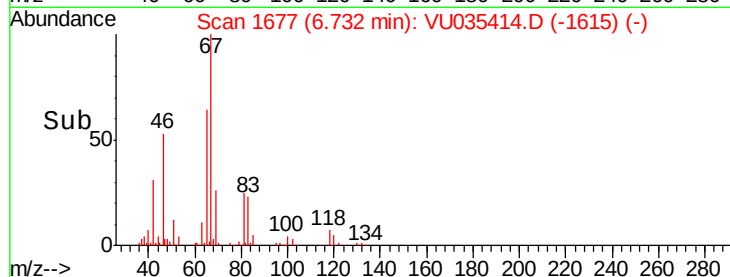
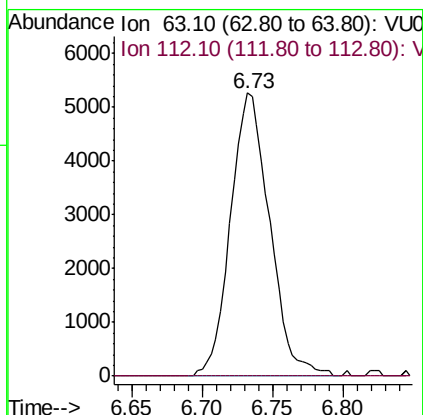
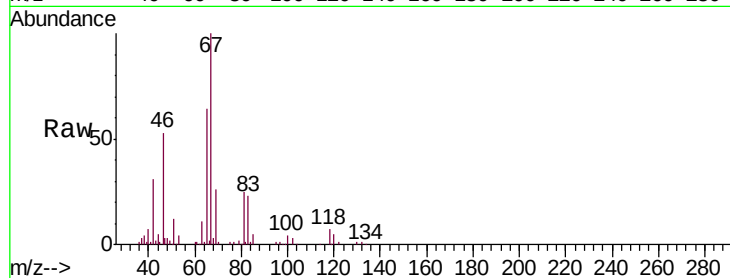




#37  
 1,2-Dichloropropane  
 Concen: 0.570 ug/L  
 RT: 6.73 min Scan# 1677  
 Delta R.T. -0.10 min  
 Lab File: VU035414.D  
 Acq: 23 Oct 2019 17:10

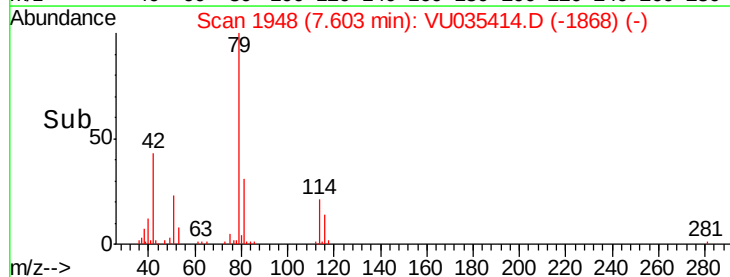
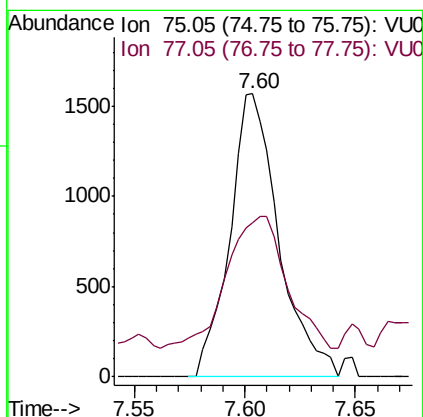
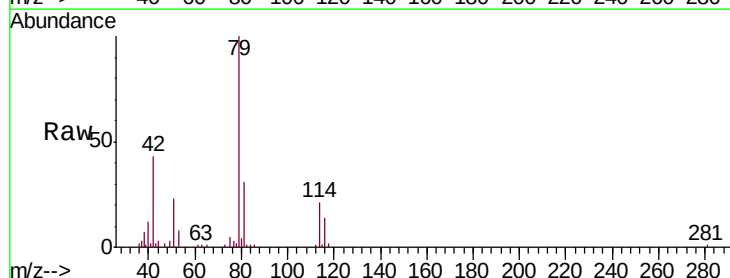
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H0G19DL

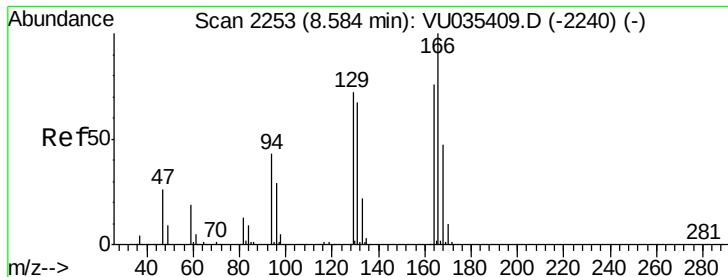
Tgt Ion: 63 Resp: 10248  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.7 5.5#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.080 ug/L  
 RT: 7.60 min Scan# 1948  
 Delta R.T. -0.04 min  
 Lab File: VU035414.D  
 Acq: 23 Oct 2019 17:10

Tgt Ion: 75 Resp: 2418  
 Ion Ratio Lower Upper  
 75 100  
 77 54.6 22.7 42.1#





#47

Tetrachloroethene

Concen: 0.398 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. 0.00 min

Lab File: VU035414.D

Acq: 23 Oct 2019 17:10

Instrument :

MSVOA\_U

ClientSampleId :

H0G19DL

Tgt Ion:164 Resp: 6310

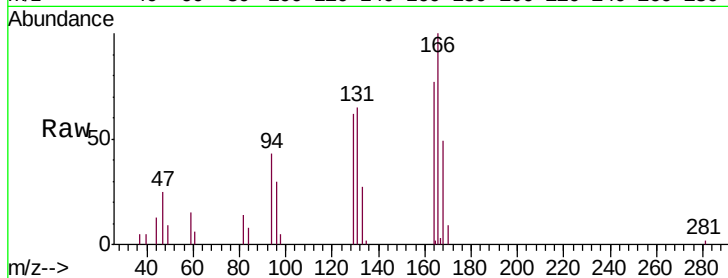
Ion Ratio Lower Upper

164 100

129 80.7 65.2 121.0

131 84.7 62.9 116.9

166 130.1 91.5 169.9

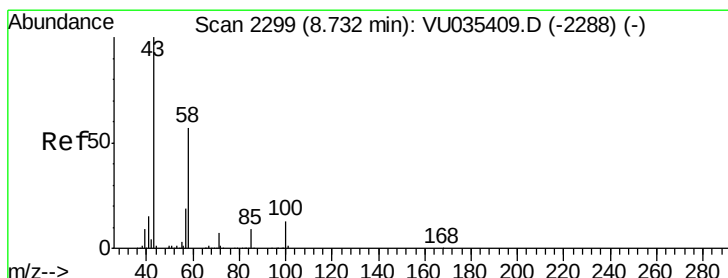
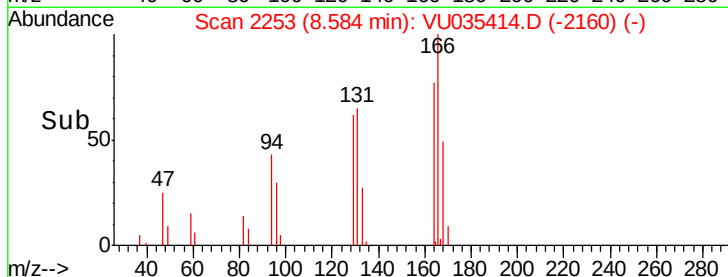
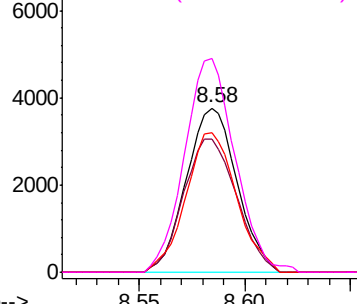


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 1.235 ug/L

RT: 8.73 min Scan# 2298

Delta R.T. -0.00 min

Lab File: VU035414.D

Acq: 23 Oct 2019 17:10

Tgt Ion: 43 Resp: 10515

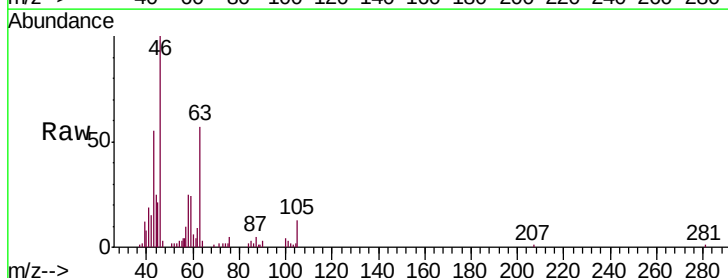
Ion Ratio Lower Upper

43 100

58 59.7 45.1 67.7

57 23.5 16.0 24.0

100 9.4 10.4 15.6#

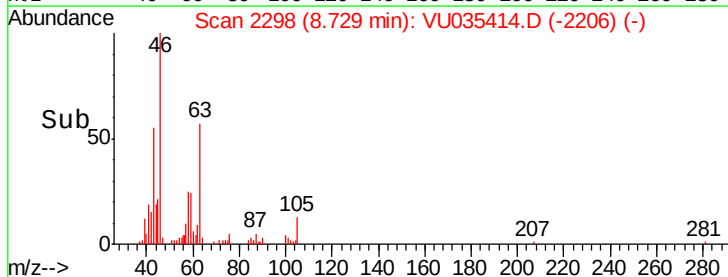
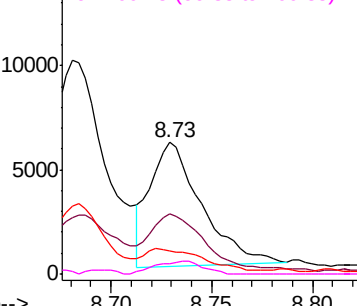


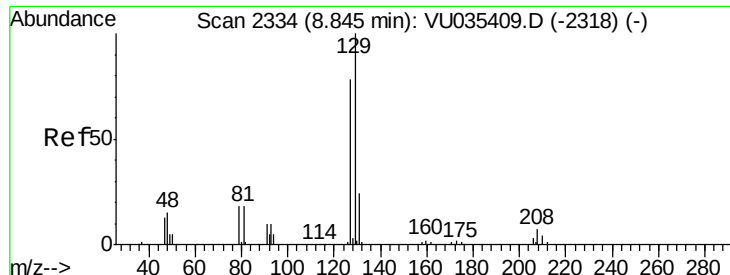
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 0.315 ug/L

RT: 8.58 min Scan# 2252

Delta R.T. -0.26 min

Lab File: VU035414.D

Acq: 23 Oct 2019 17:10

Instrument :

MSVOA\_U

ClientSampleId :

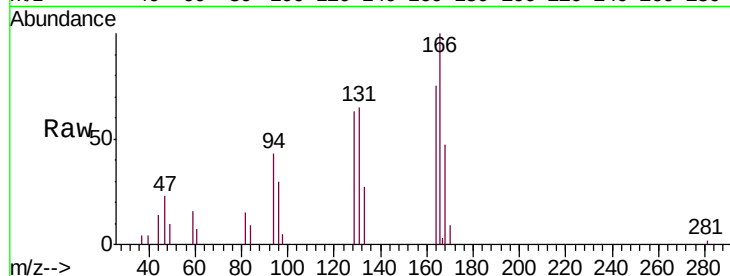
H0G19DL

Tgt Ion:129 Resp: 5328

Ion Ratio Lower Upper

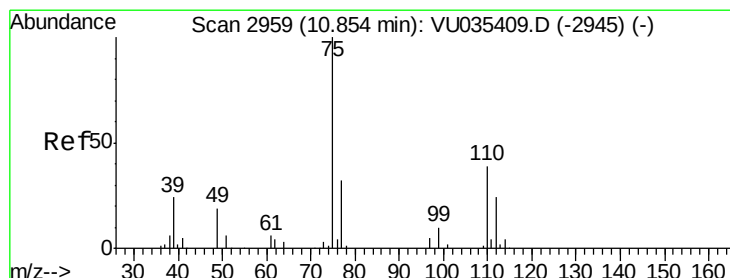
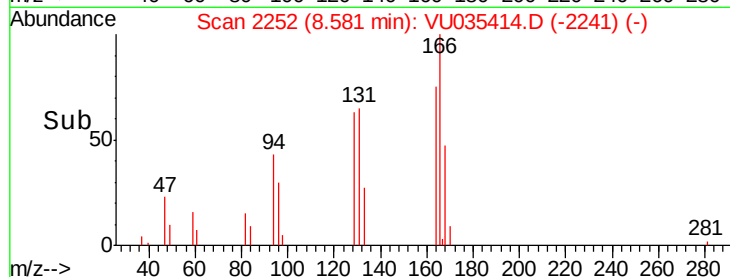
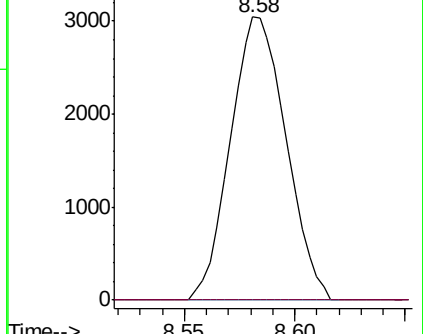
129 100

127 0.0 53.8 99.8#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#59

1,2,3-Trichloropropane

Concen: 0.886 ug/L

RT: 11.84 min Scan# 3267

Delta R.T. 0.99 min

Lab File: VU035414.D

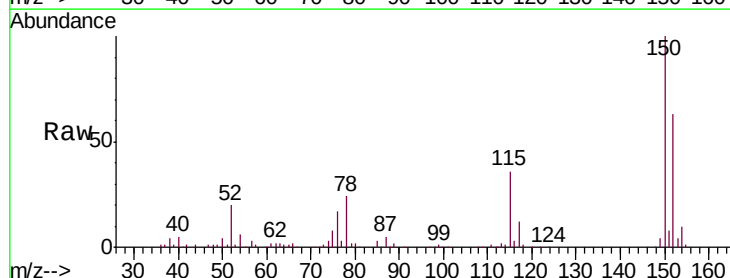
Acq: 23 Oct 2019 17:10

Tgt Ion: 75 Resp: 11101

Ion Ratio Lower Upper

75 100

77 35.3 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

