

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101819\  
 Data File : VU035290.D  
 Acq On : 19 Oct 2019 01:24  
 Operator : JC/SP  
 Sample : K5419-15DL 5X  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Oct 19 06:16:30 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR101719WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Oct 19 06:13:43 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 309842   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 297716   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 116305   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 92149    | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 97.60%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 85851    | 4.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 99.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 129911   | 3.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 74.40%  |
| 20) 2-Butanone-d5              | 4.71   | 46    | 281455   | 51.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 103.68% |
| 24) Chloroform-d               | 5.11   | 84    | 186950   | 5.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 108.40% |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 103763   | 5.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 108.40% |
| 32) Benzene-d6                 | 5.77   | 84    | 364334   | 5.35     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 107.00% |
| 36) 1,2-Dichloropropane-d6     | 6.74   | 67    | 120598   | 5.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 111.60% |
| 41) Toluene-d8                 | 7.93   | 98    | 335373   | 5.15     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 103.00% |
| 43) trans-1,3-Dichloropropene- | 8.22   | 79    | 49501    | 4.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 94.40%  |
| 46) 2-Hexanone-d5              | 8.68   | 63    | 230746   | 49.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 99.74%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.79  | 84    | 104115   | 5.40     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 108.00% |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 116912   | 5.52     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 110.40% |

## Target Compounds

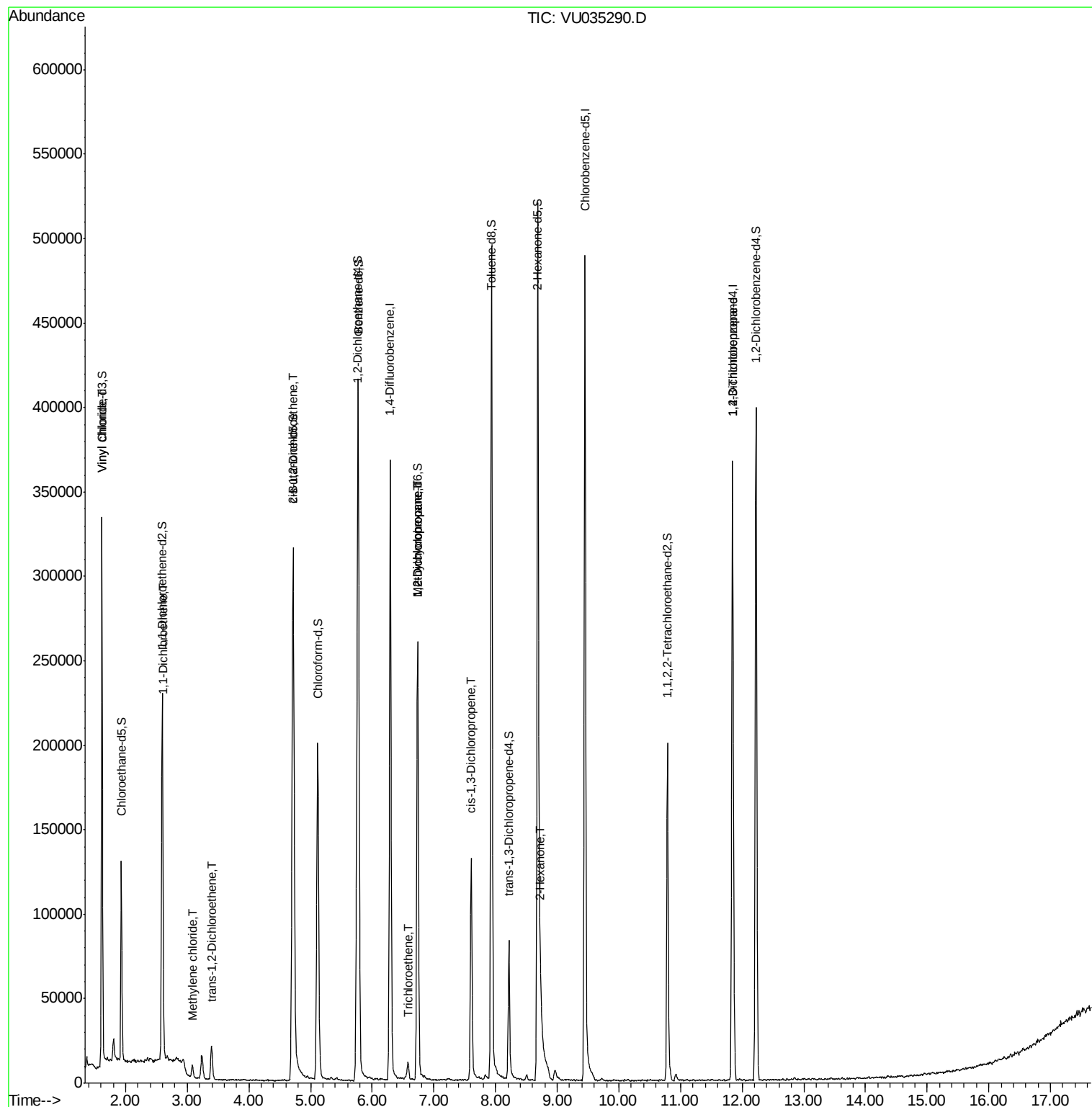
| Target Compounds             | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|------------------------------|-------|------|----------|-------|--------|--------|
| 5) Vinyl chloride            | 1.62  | 62   | 139674   | 5.199 | ug/L   | 97     |
| 12) 1,1-Dichloroethene       | 2.61  | 96   | 2283     | 0.115 | ug/L # | 1      |
| 16) Methylene chloride       | 3.09  | 84   | 3083     | 0.129 | ug/L   | 91     |
| 18) trans-1,2-Dichloroethene | 3.39  | 96   | 8690     | 0.405 | ug/L   | 93     |
| 22) cis-1,2-Dichloroethene   | 4.72  | 96   | 73203    | 3.083 | ug/L   | 100    |
| 34) Trichloroethene          | 6.59  | 95   | 3076     | 0.131 | ug/L   | 86     |
| 35) Methylcyclohexane        | 6.74  | 83   | 28922    | 0.735 | ug/L # | 19     |
| 37) 1,2-Dichloropropane      | 6.74  | 63   | 13344    | 0.600 | ug/L # | 86     |
| 39) cis-1,3-Dichloropropene  | 7.61  | 75   | 3419     | 0.092 | ug/L # | 50     |
| 48) 2-Hexanone               | 8.73  | 43   | 10728    | 1.019 | ug/L # | 86     |
| 59) 1,2,3-Trichloropropane   | 11.84 | 75   | 14421    | 0.931 | ug/L   | 94     |

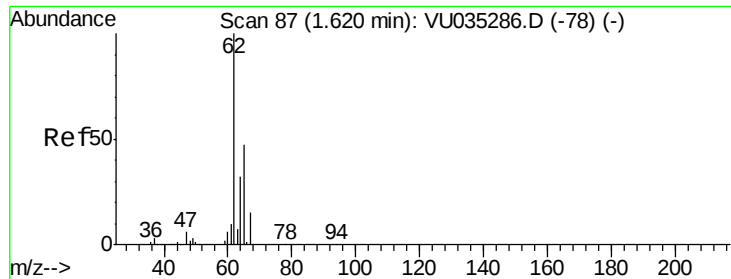
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_U  
ClientSampleId :

Quant Time: Oct 19 06:16:30 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR101719WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Oct 19 06:13:43 2019  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 5.199 ug/L

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU035290.D

Acq: 19 Oct 2019 01:24

Instrument :

MSVOA\_U

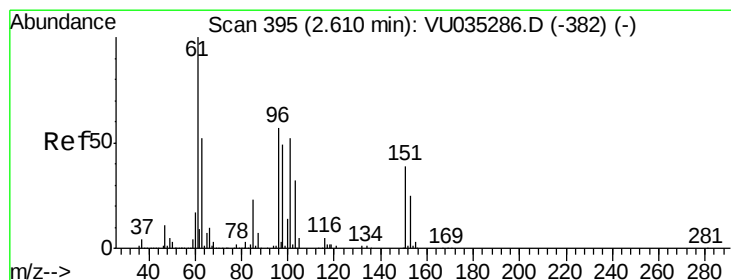
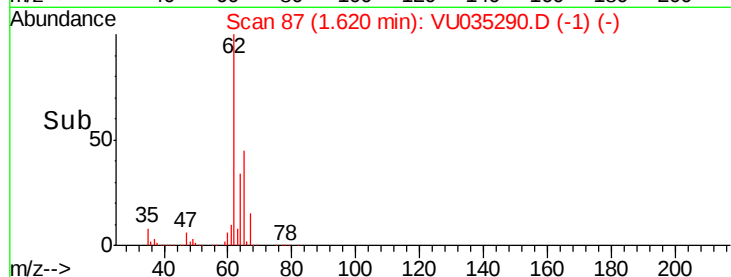
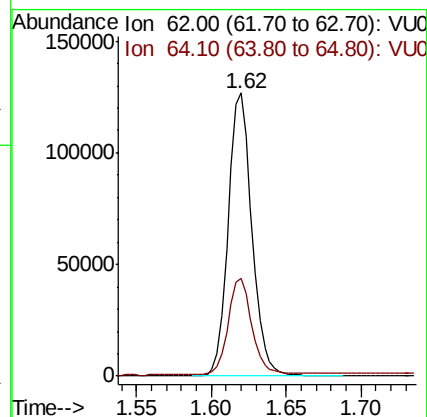
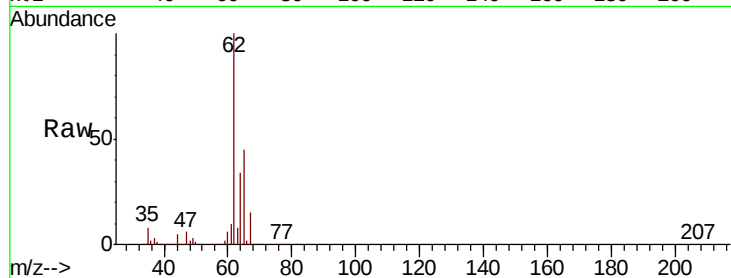
ClientSampled :

Tot Ion: 62 Resp: 139674

Ion Ratio Lower Upper

62 100

64 34.4 22.9 42.5



#12

1,1-Dichloroethene

Concen: 0.115 ug/L

RT: 2.61 min Scan# 395

Delta R.T. -0.00 min

Lab File: VU035290.D

Acq: 19 Oct 2019 01:24

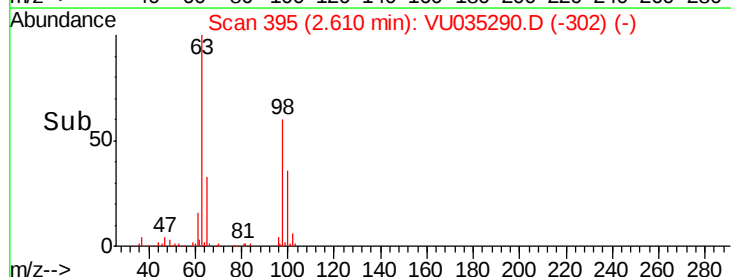
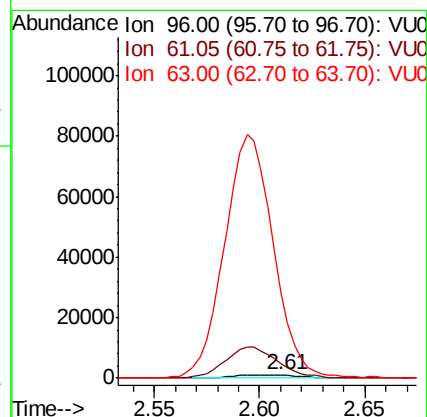
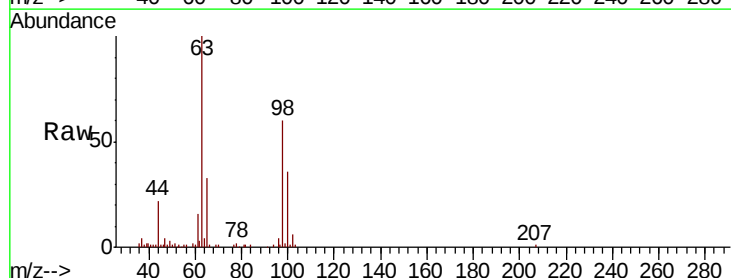
Tgt Ion: 96 Resp: 2283

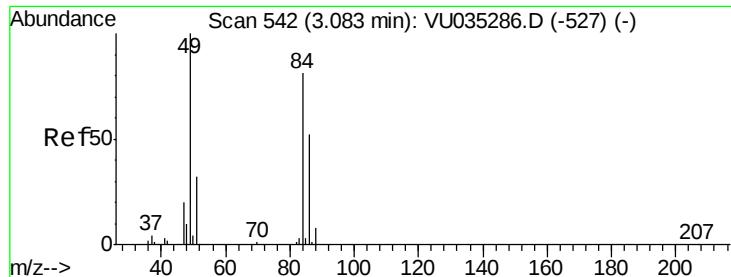
Ion Ratio Lower Upper

96 100

61 436.8 120.6 224.0#

63 2661.2 86.8 161.2#

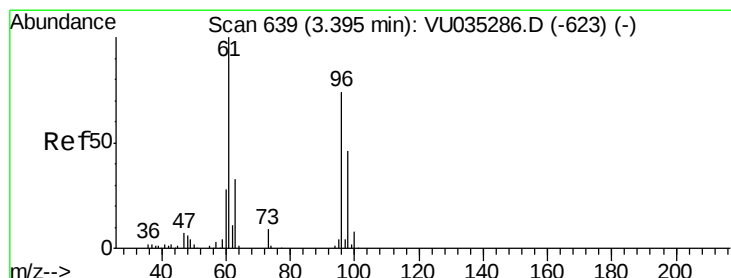
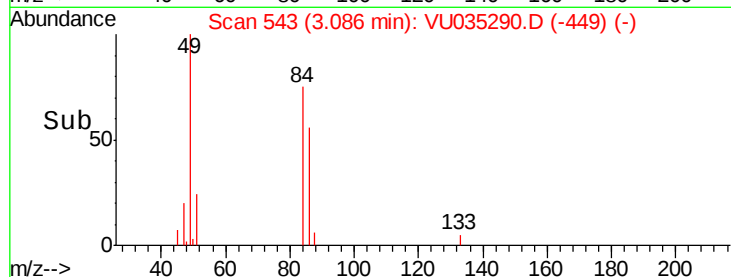
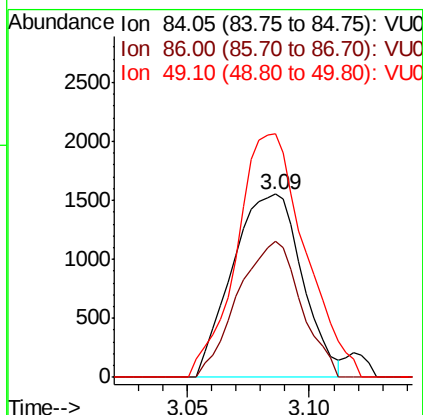
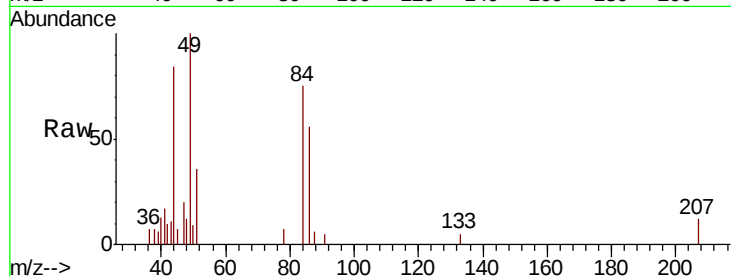




#16  
Methvlene chloride  
Concen: 0.129 ug/L  
RT: 3.09 min Scan# 543  
Delta R.T. 0.00 min  
Lab File: VU035290.D  
Acq: 19 Oct 2019 01:24

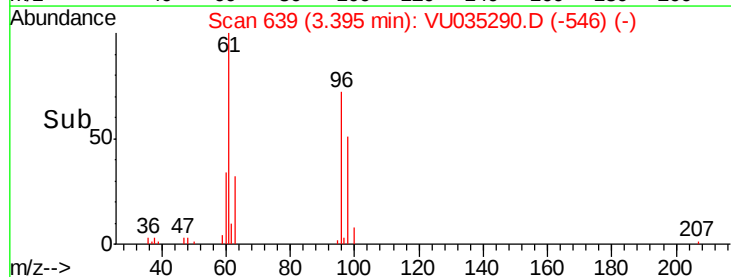
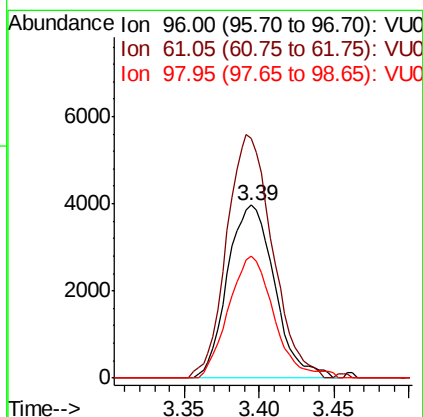
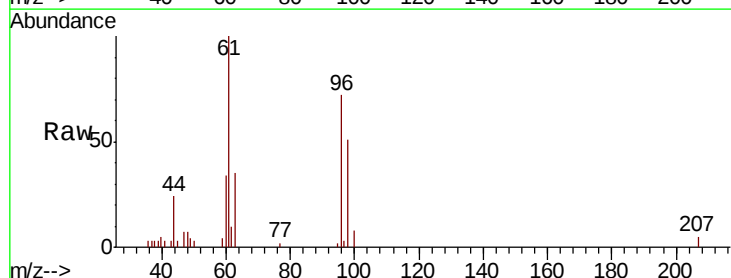
Instrument :  
MSVOA\_U  
ClientSampled :

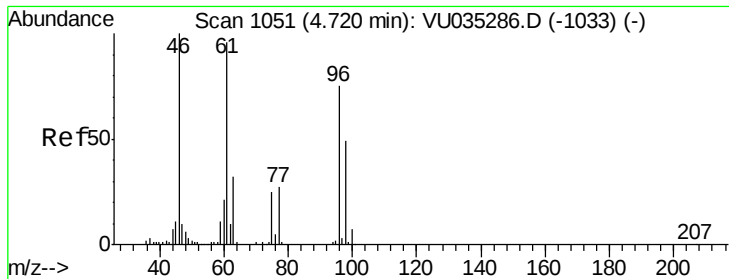
Tot Ion: 84 Resp: 3083  
Ion Ratio Lower Upper  
84 100  
86 74.4 45.4 84.2  
49 132.8 86.8 161.2



#18  
trans-1,2-Dichloroethene  
Concen: 0.405 ug/L  
RT: 3.39 min Scan# 639  
Delta R.T. -0.00 min  
Lab File: VU035290.D  
Acq: 19 Oct 2019 01:24

Tgt Ion: 96 Resp: 8690  
Ion Ratio Lower Upper  
96 100  
61 138.9 93.0 172.6  
98 71.0 43.7 81.1





#22

cis-1,2-Dichloroethene

Concen: 3.083 ug/L

RT: 4.72 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VU035290.D

Acq: 19 Oct 2019 01:24

Instrument :  
MSVOA\_U  
ClientSampleId :

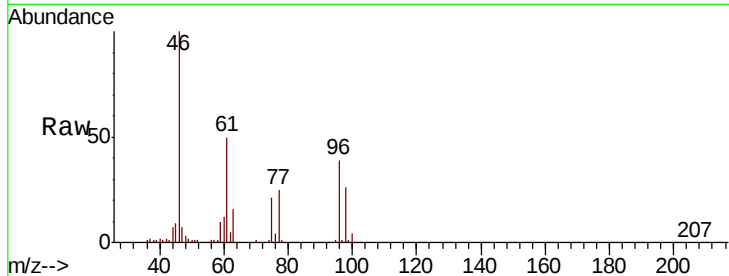
Tot Ion: 96 Resp: 73203

Ion Ratio Lower Upper

96 100

61 127.8 89.7 166.5

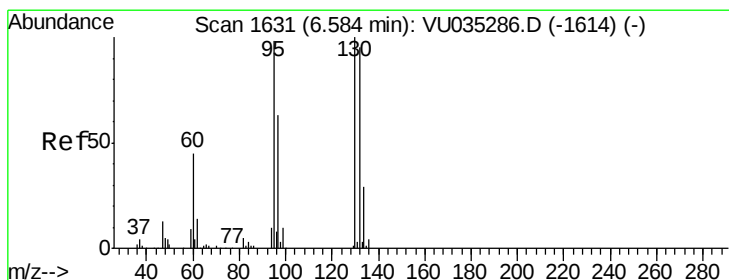
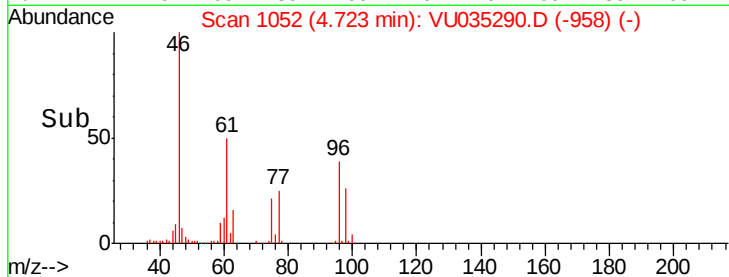
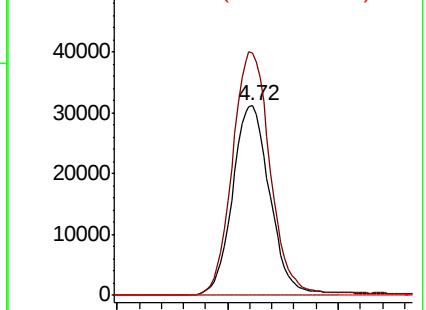
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU035290.D (-1538) (-)

Ion 61.05 (60.75 to 61.75): VU035290.D (-1538) (-)

Ion 68.15 (67.85 to 68.85): VU035290.D (-1538) (-)



#34

Trichloroethene

Concen: 0.131 ug/L

RT: 6.59 min Scan# 1632

Delta R.T. 0.00 min

Lab File: VU035290.D

Acq: 19 Oct 2019 01:24

Tgt Ion: 95 Resp: 3076

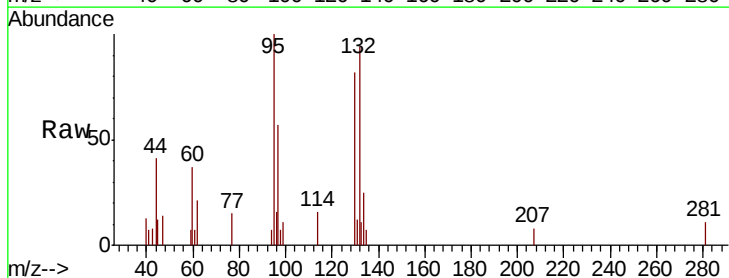
Ion Ratio Lower Upper

95 100

97 57.0 46.6 86.6

132 94.0 68.7 127.7

130 81.7 73.9 137.3

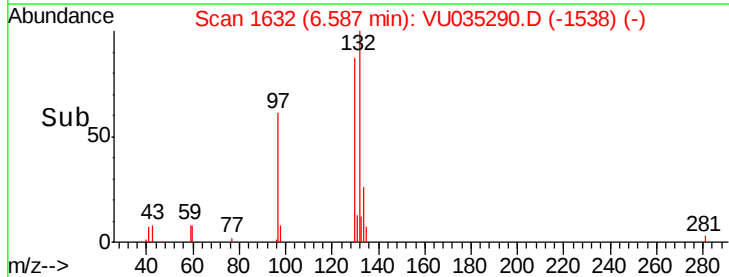
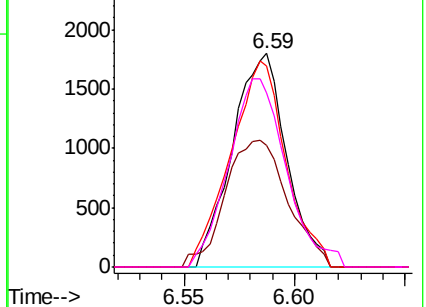


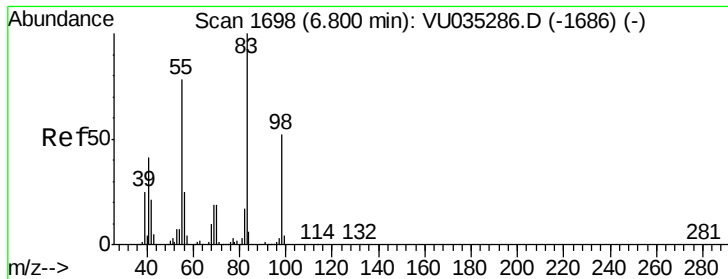
Abundance Ion 95.00 (94.70 to 95.70): VU035290.D (-1538) (-)

Ion 96.95 (96.65 to 97.65): VU035290.D (-1538) (-)

Ion 131.95 (131.65 to 132.65): VU035290.D (-1538) (-)

Ion 129.95 (129.65 to 130.65): VU035290.D (-1538) (-)





#35

Methylcyclohexane

Concen: 0.735 ug/L

RT: 6.74 min Scan# 1678

Delta R.T. -0.06 min

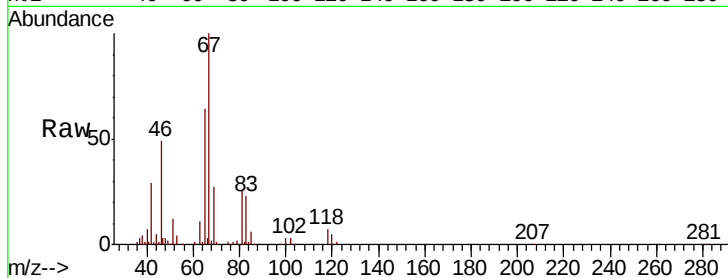
Lab File: VU035290.D

Acq: 19 Oct 2019 01:24

Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 83 Resp: 28922

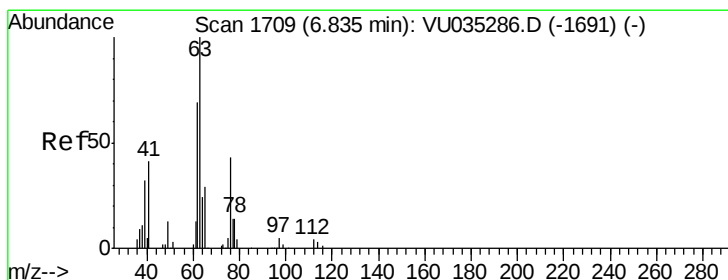
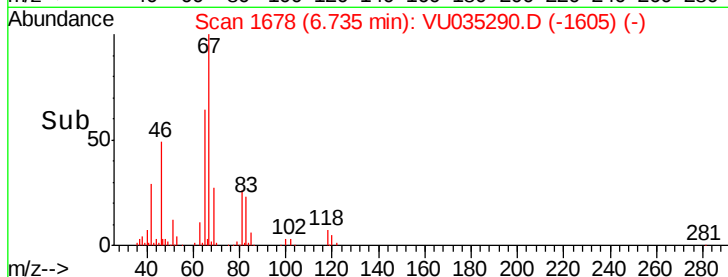
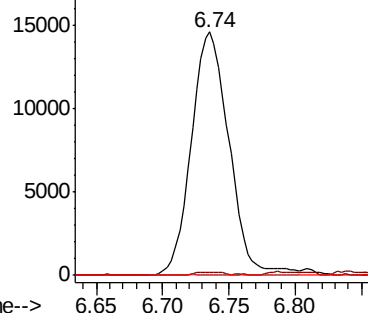
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 0.9   | 60.4  | 90.6# |
| 98  | 0.1   | 39.5  | 59.3# |



Abundance Ion 83.15 (82.85 to 83.85): VU035286.D (-1686) (-)

Ion 55.10 (54.80 to 55.80): VU035286.D (-1686) (-)

Ion 98.15 (97.85 to 98.85): VU035286.D (-1686) (-)



#37

1,2-Dichloropropane

Concen: 0.600 ug/L

RT: 6.74 min Scan# 1678

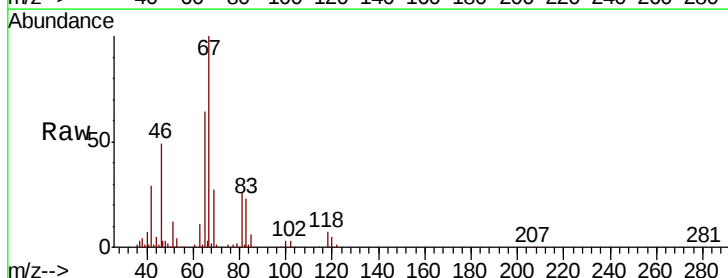
Delta R.T. -0.10 min

Lab File: VU035290.D

Acq: 19 Oct 2019 01:24

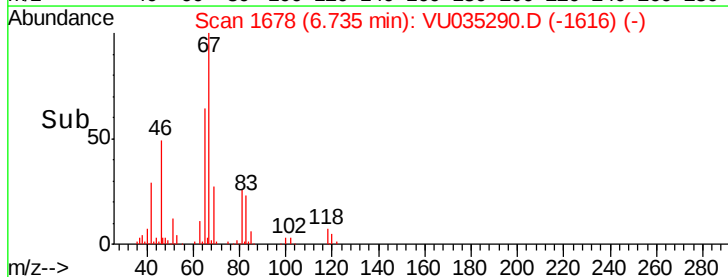
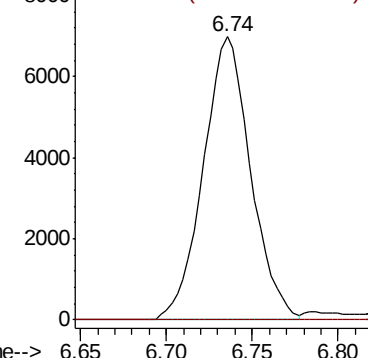
Tgt Ion: 63 Resp: 13344

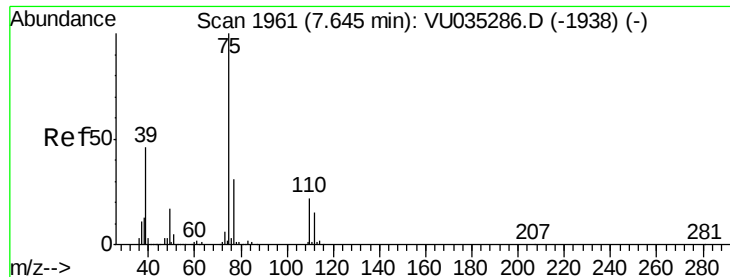
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 112 | 0.0   | 3.7   | 5.5#  |



Abundance Ion 63.10 (62.80 to 63.80): VU035286.D (-1691) (-)

Ion 112.10 (111.80 to 112.80): VU035286.D (-1691) (-)



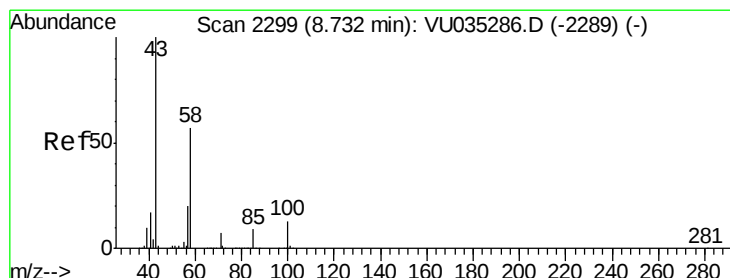
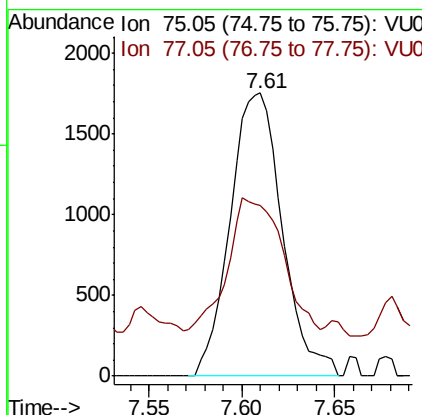
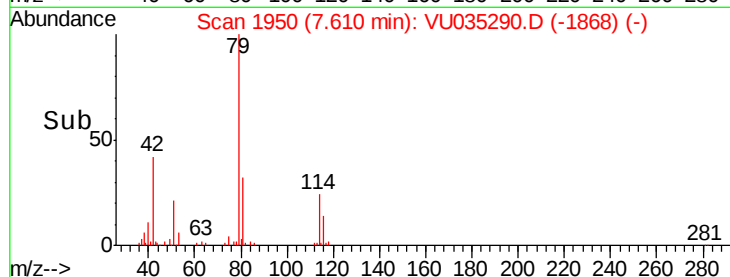
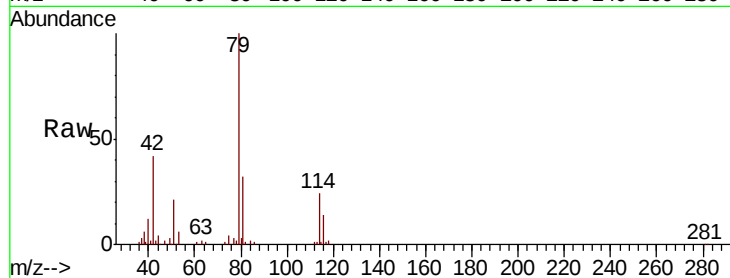


#39

cis-1,3-Dichloropropene  
 Concen: 0.092 ug/L  
 RT: 7.61 min Scan# 1950  
 Delta R.T. -0.04 min  
 Lab File: VU035290.D  
 Acq: 19 Oct 2019 01:24

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 ClientSampleId :

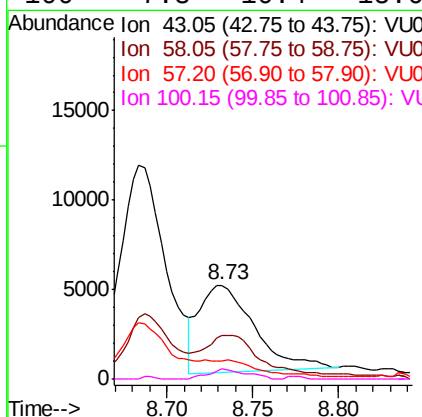
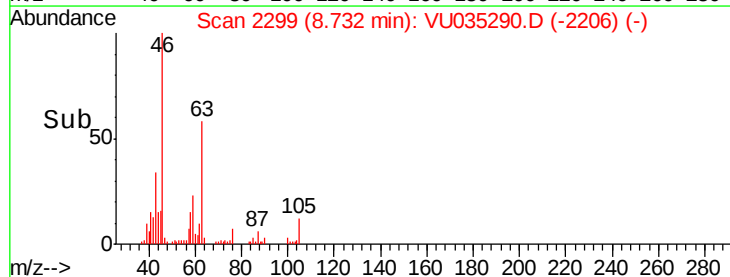
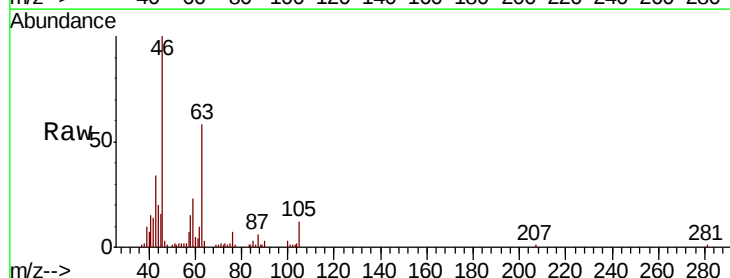
Tot Ion: 75 Resp: 3419  
 Ion Ratio Lower Upper  
 75 100  
 77 60.2 22.7 42.1#

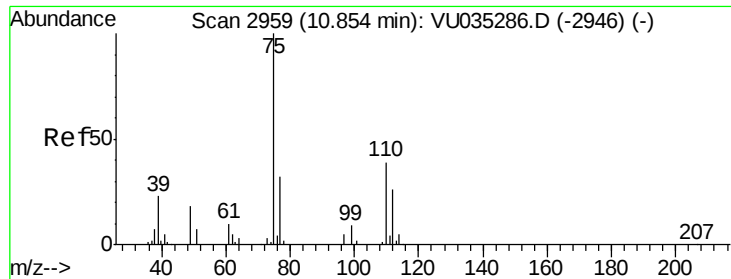


#48

2-Hexanone  
 Concen: 1.019 ug/L  
 RT: 8.73 min Scan# 2299  
 Delta R.T. -0.00 min  
 Lab File: VU035290.D  
 Acq: 19 Oct 2019 01:24

Tgt Ion: 43 Resp: 10728  
 Ion Ratio Lower Upper  
 43 100  
 58 58.6 45.1 67.7  
 57 0.0 16.0 24.0#  
 100 7.8 10.4 15.6#





#59

1,2,3-Trichloropropane

Concen: 0.931 ug/L

RT: 11.84 min Scan# 3266

Delta R.T. 0.99 min

Lab File: VU035290.D

Acq: 19 Oct 2019 01:24

Instrument :

MSVOA\_U

ClientSampleId :

Tot Ion: 75 Resp: 14421

Ion Ratio Lower Upper

75 100

77 36.1 26.2 39.2

