

Data File : VU035831.D  
Acq On : 25 Nov 2019 18:06  
Operator : JC/SP  
Sample : K5992-02  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GARE5

Quant Time: Nov 26 01:07:01 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR112119WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Nov 26 01:03:35 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 241024   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 271678   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 89830    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.62   | 65    | 131538   | 4.18     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 83.60%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 131961   | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 96.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.60   | 63    | 226891   | 3.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 77.60%  |
| 20) 2-Butanone-d5              | 4.69   | 46    | 391940   | 53.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 107.58% |
| 24) Chloroform-d               | 5.11   | 84    | 260282   | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 153930   | 5.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 102.80% |
| 32) Benzene-d6                 | 5.77   | 84    | 512682   | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 99.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.74   | 67    | 185375   | 5.31     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 106.20% |
| 41) Toluene-d8                 | 7.93   | 98    | 434875   | 4.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.00%  |
| 43) trans-1,3-Dichloropropene- | 8.21   | 79    | 63547    | 4.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 93.40%  |
| 46) 2-Hexanone-d5              | 8.68   | 63    | 323952   | 59.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 118.62% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.79  | 84    | 148135   | 5.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 100.80% |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 108188   | 5.54     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 110.80% |

#### Target Compounds

|                              |       |     |        |               | Qvalue |
|------------------------------|-------|-----|--------|---------------|--------|
| 3) Chloromethane             | 1.54  | 50  | 4801   | 0.119 ug/L    | 95     |
| 12) 1,1-Dichloroethene       | 2.61  | 96  | 90757  | 3.619 ug/L    | 94     |
| 13) Acetone                  | 2.66  | 43  | 7915   | 1.237 ug/L    | 99     |
| 18) trans-1,2-Dichloroethene | 3.39  | 96  | 93226  | 3.775 ug/L    | 95     |
| 21) 2-Butanone               | 4.87  | 43  | 98823  | 12.203 ug/L # | 64     |
| 22) cis-1,2-Dichloroethene   | 4.72  | 96  | 731858 | 26.595 ug/L   | 96     |
| 25) Chloroform               | 5.14  | 83  | 30337  | 0.562 ug/L    | 99     |
| 33) Benzene                  | 5.82  | 78  | 9421   | 0.083 ug/L    | 100    |
| 35) Methylcyclohexane        | 6.74  | 83  | 40115  | 0.983 ug/L #  | 13     |
| 37) 1,2-Dichloropropane      | 6.74  | 63  | 19320  | 0.601 ug/L #  | 92     |
| 39) cis-1,3-Dichloropropene  | 7.61  | 75  | 4664   | 0.112 ug/L #  | 48     |
| 45) 1,1,2-Trichloroethane    | 8.43  | 97  | 13738  | 0.656 ug/L    | 97     |
| 47) Tetrachloroethene        | 8.58  | 164 | 27139  | 1.283 ug/L    | 96     |
| 48) 2-Hexanone               | 8.69  | 43  | 37145  | 2.555 ug/L #  | 62     |
| 49) Dibromochloromethane     | 8.58  | 129 | 27776  | 1.123 ug/L #  | 12     |
| 59) 1,2,3-Trichloropropane   | 11.84 | 75  | 12531  | 0.599 ug/L    | 90     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU112519\  
Quantitation Report (Not Reviewed)

Data File : VU035831.D  
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ClientSampleId :  
GARE5

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Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Nov 26 01:03:35 2019  
Response via : Initial Calibration

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

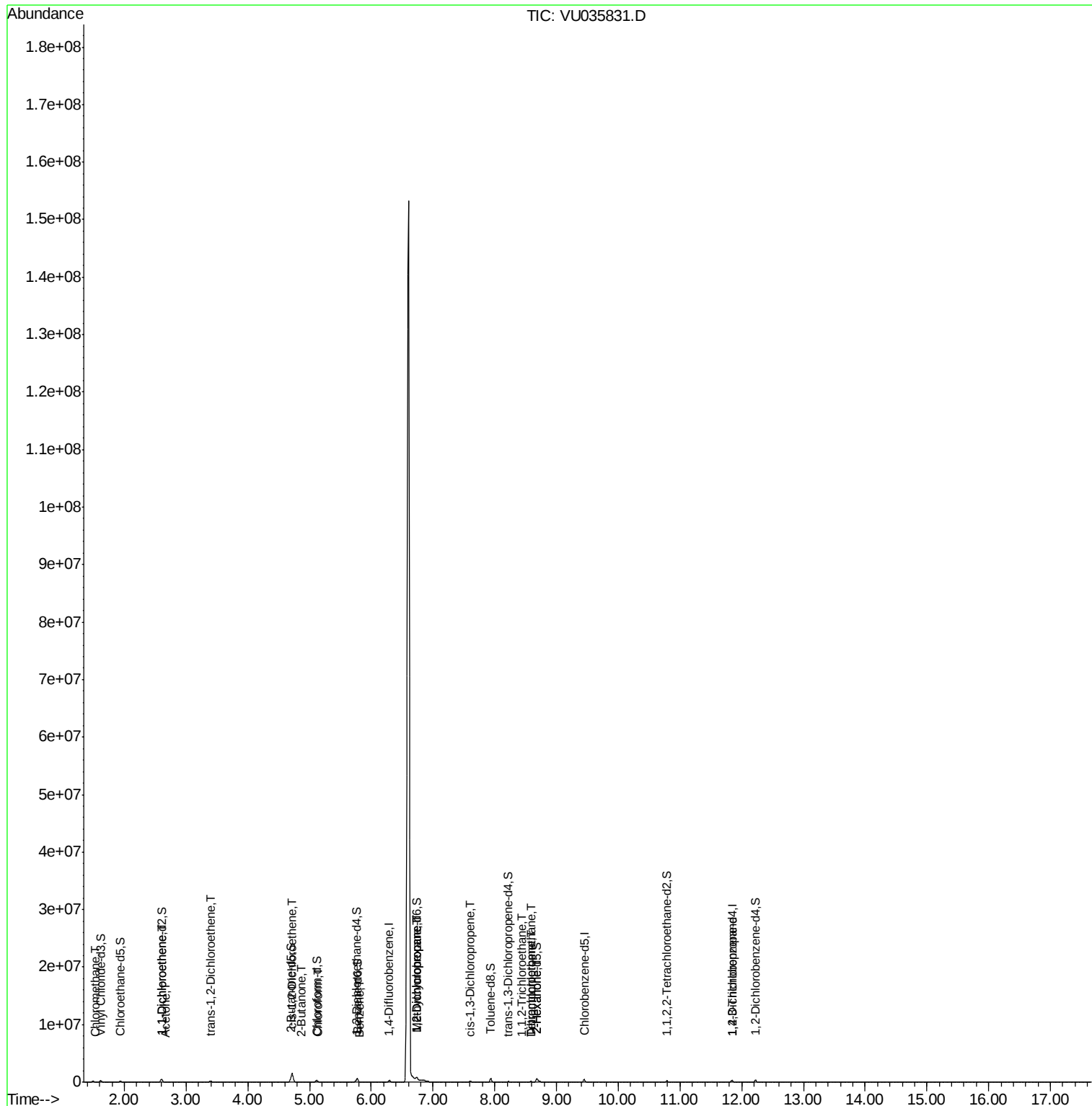
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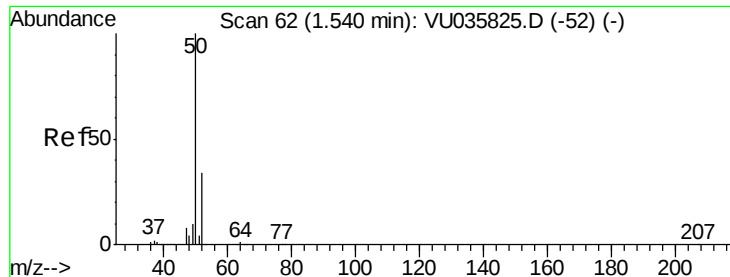
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : TRACE VOA SOM01.0  
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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.119 ug/L

RT: 1.54 min Scan# 63

Delta R.T. 0.00 min

Lab File: VU035831.D

Acq: 25 Nov 2019 18:06

Instrument :

MSVOA\_U

ClientSampleId :

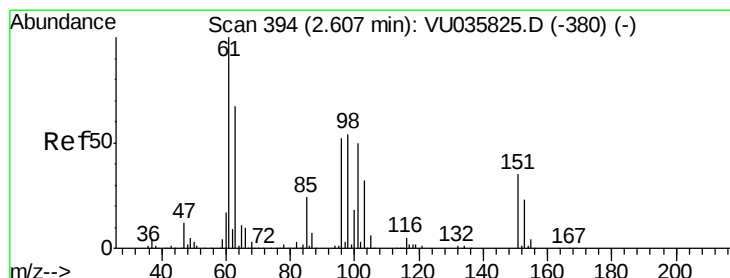
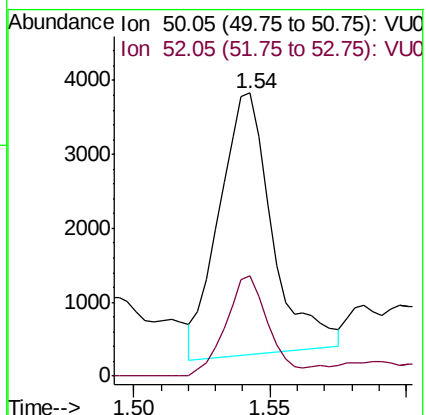
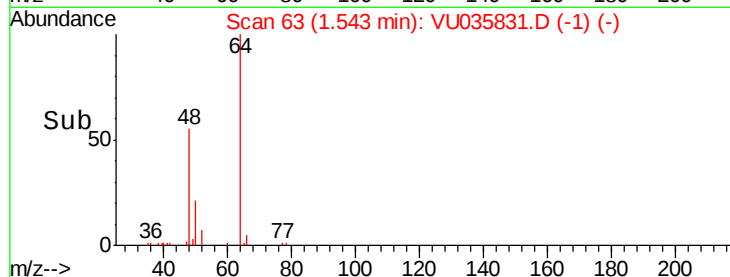
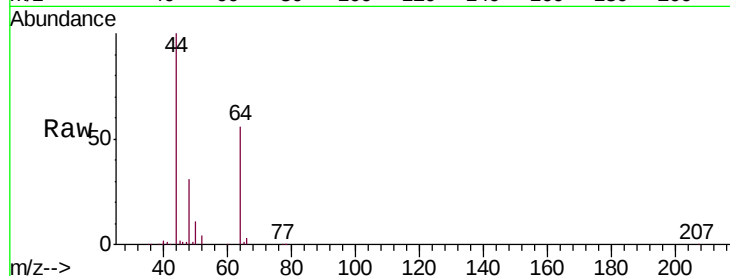
GARE5

Tgt Ion: 50 Resp: 4801

Ion Ratio Lower Upper

50 100

52 35.4 22.7 42.3



#12

1,1-Dichloroethene

Concen: 3.619 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU035831.D

Acq: 25 Nov 2019 18:06

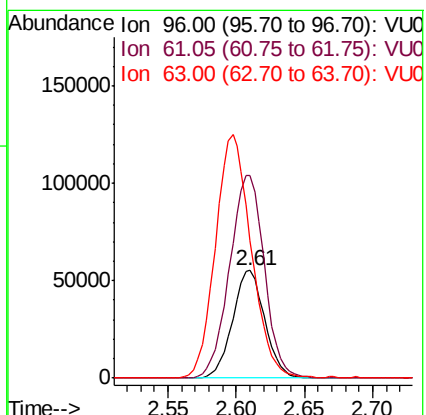
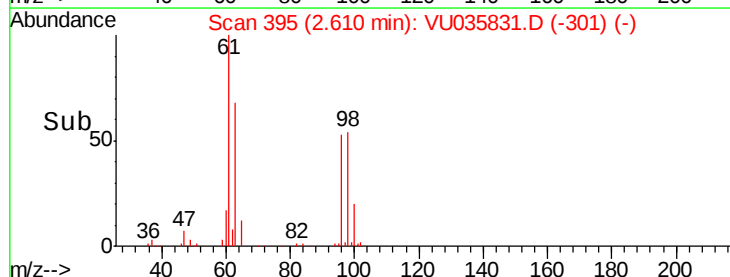
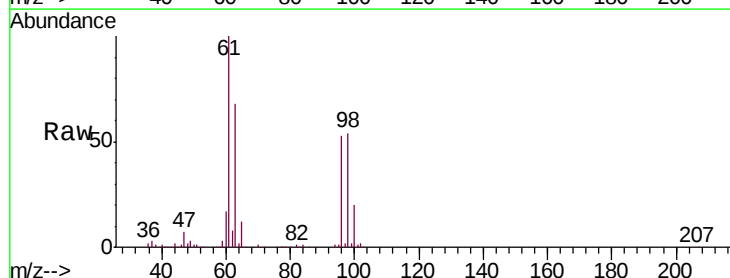
Tgt Ion: 96 Resp: 90757

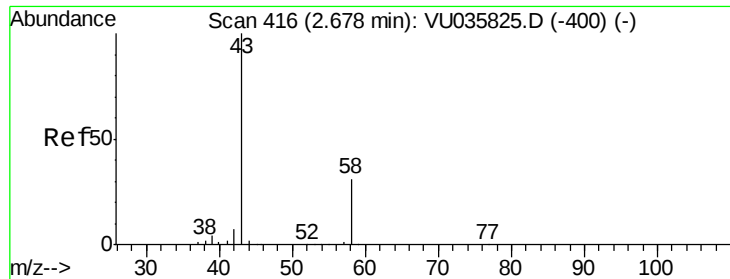
Ion Ratio Lower Upper

96 100

61 188.0 139.3 258.7

63 127.7 93.7 174.1





#13

Acetone

Concen: 1.237 ug/L

RT: 2.66 min Scan# 412

Delta R.T. -0.01 min

Lab File: VU035831.D

Acq: 25 Nov 2019 18:06

Instrument :

MSVOA\_U

ClientSampleId :

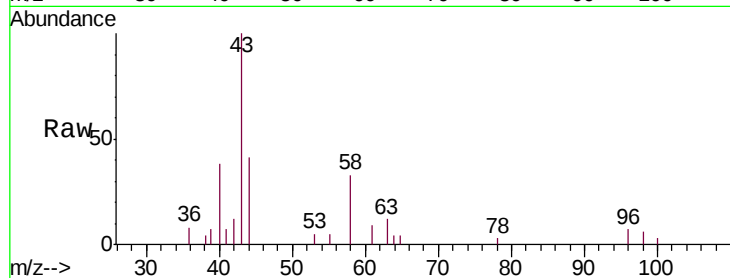
GARE5

Tgt Ion: 43 Resp: 7915

Ion Ratio Lower Upper

43 100

58 31.3 0.0 61.2



Abundance Ion 43.05 (42.75 to 43.75): VU035825.D (-400) (-)

Ion 58.05 (57.75 to 58.75): VU035825.D (-400) (-)

4000

3000

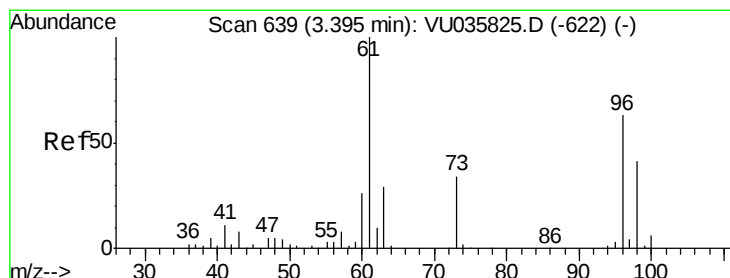
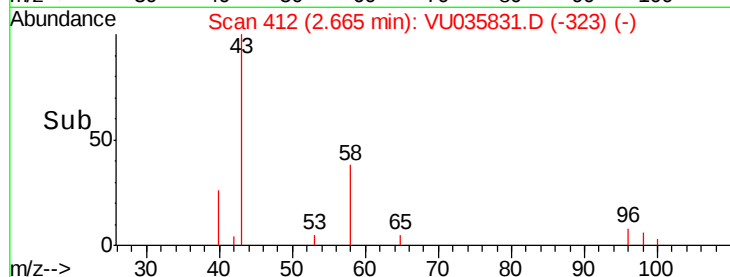
2000

1000

0

2.60 2.65 2.70

Time-->



#18

trans-1,2-Dichloroethene

Concen: 3.775 ug/L

RT: 3.39 min Scan# 639

Delta R.T. -0.00 min

Lab File: VU035831.D

Acq: 25 Nov 2019 18:06

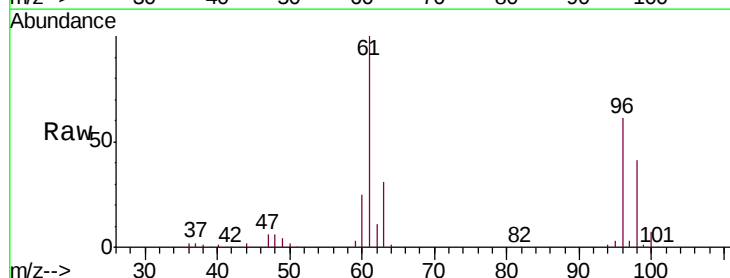
Tgt Ion: 96 Resp: 93226

Ion Ratio Lower Upper

96 100

61 163.7 111.1 206.3

98 67.1 43.1 80.1



Abundance Ion 96.00 (95.70 to 96.70): VU035825.D (-622) (-)

Ion 61.05 (60.75 to 61.75): VU035825.D (-622) (-)

Ion 97.95 (97.65 to 98.65): VU035825.D (-622) (-)

100000

80000

60000

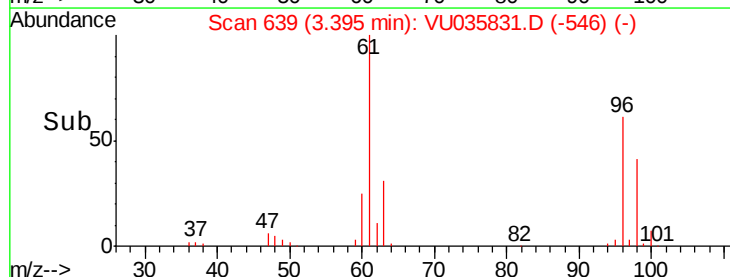
40000

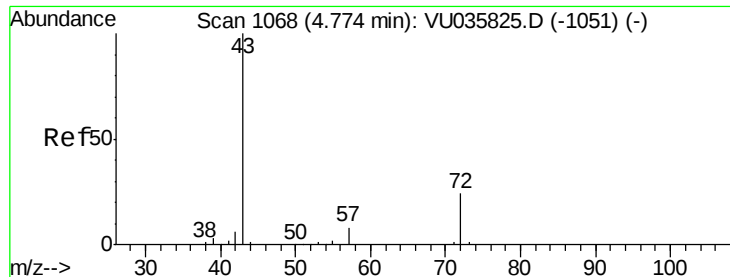
20000

0

3.30 3.35 3.40 3.45 3.50

Time-->





#21

2-Butanone

Concen: 12.203 ug/L

RT: 4.87 min Scan# 1097

Delta R.T. 0.09 min

Lab File: VU035831.D

Acq: 25 Nov 2019 18:06

Instrument :

MSVOA\_U

ClientSampled :

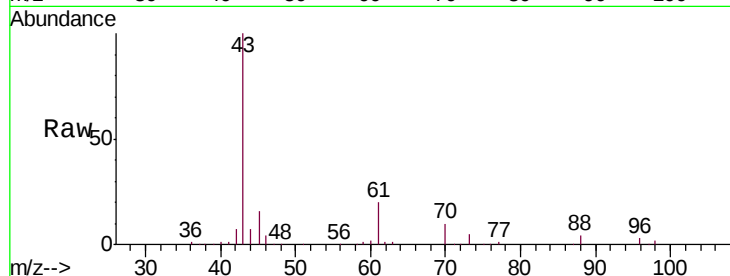
GARE5

Tgt Ion: 43 Resp: 98823

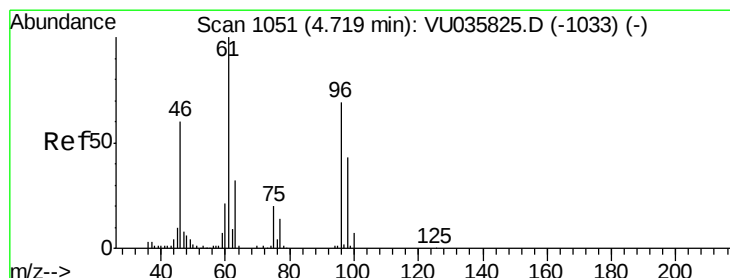
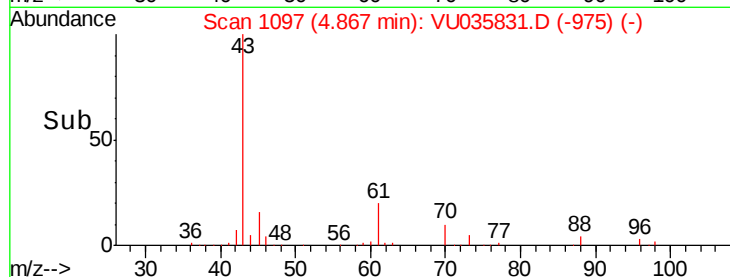
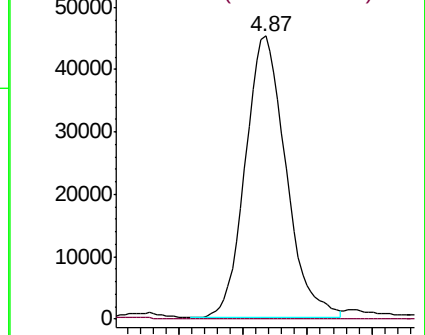
Ion Ratio Lower Upper

43 100

72 7.0 12.4 37.4#



Abundance Ion 43.05 (42.75 to 43.75): VU035831.D (-975) (-)



#22

cis-1,2-Dichloroethene

Concen: 26.595 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VU035831.D

Acq: 25 Nov 2019 18:06

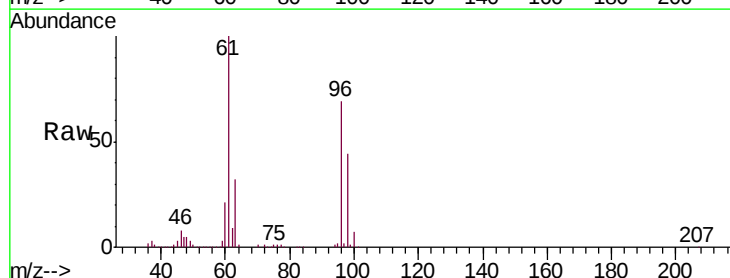
Tgt Ion: 96 Resp: 731858

Ion Ratio Lower Upper

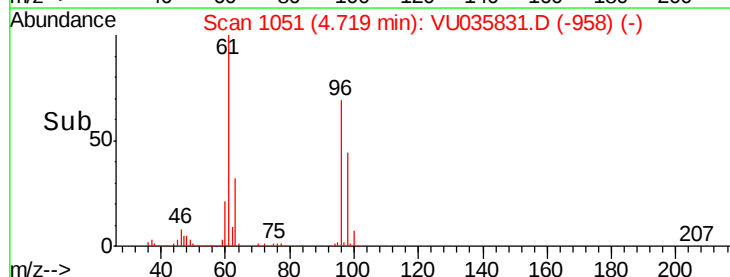
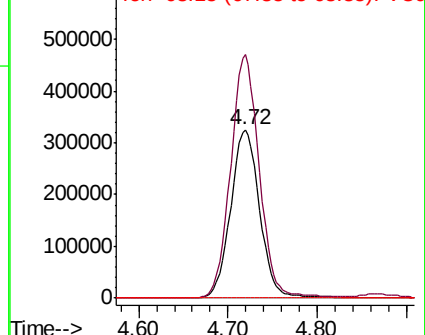
96 100

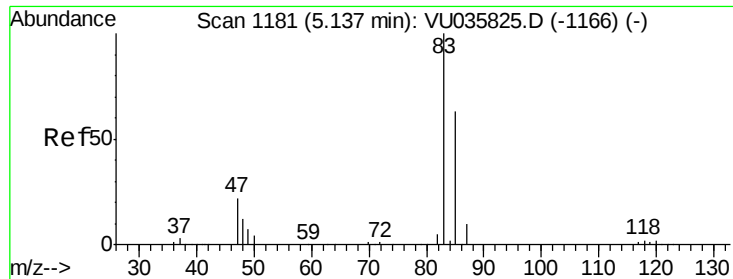
61 144.8 98.1 182.1

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU035831.D (-958) (-)

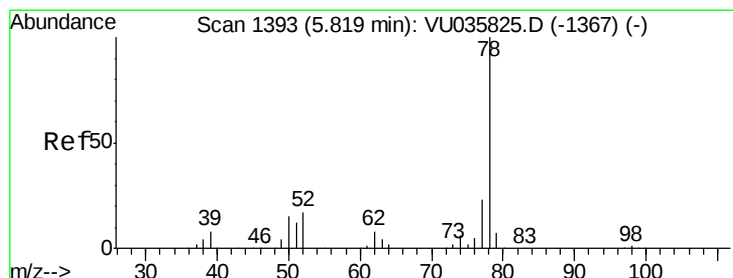
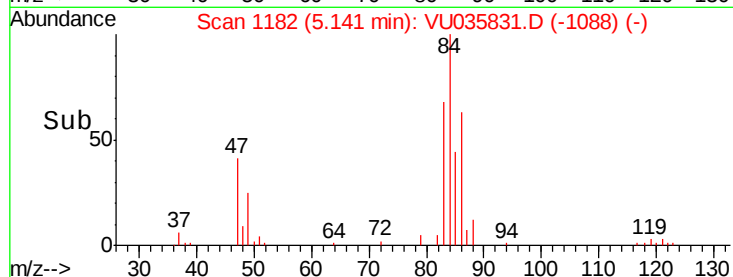
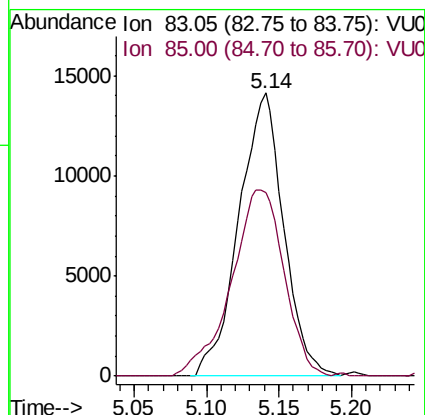
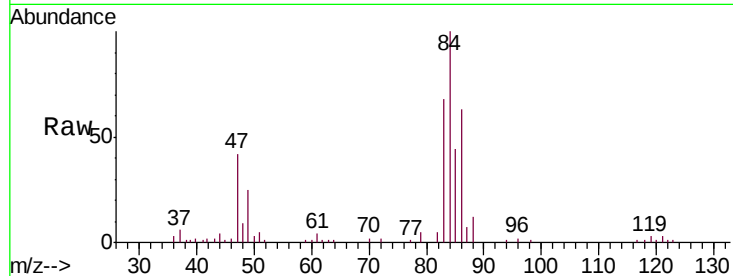




#25  
Chloroform  
Concen: 0.562 ug/L  
RT: 5.14 min Scan# 1182  
Delta R.T. 0.00 min  
Lab File: VU035831.D  
Acq: 25 Nov 2019 18:06

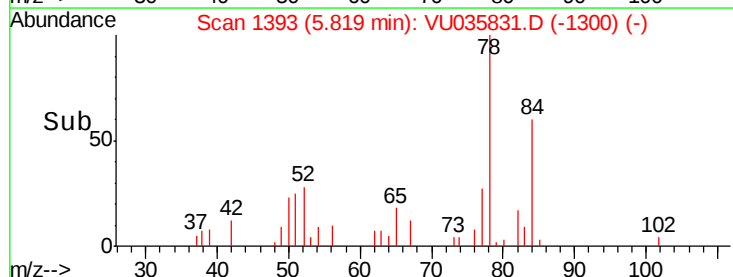
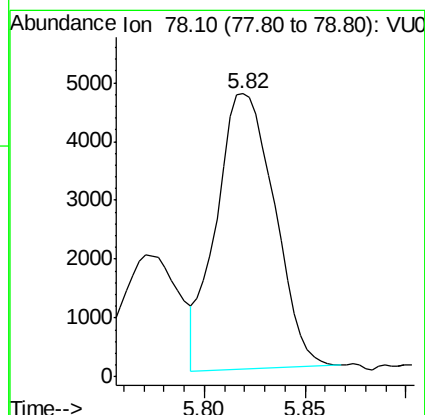
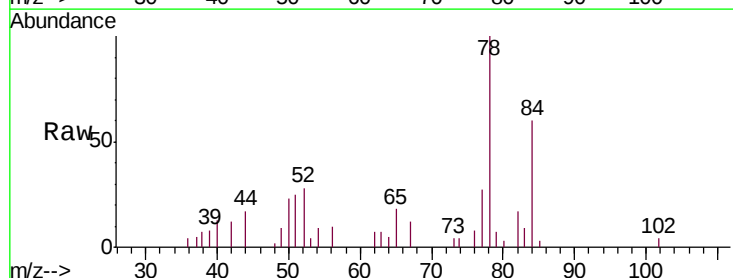
Instrument :  
MSVOA\_U  
ClientSampleId :  
GARE5

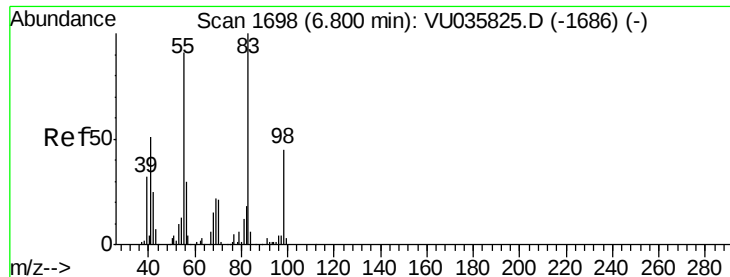
Tgt Ion: 83 Resp: 30337  
Ion Ratio Lower Upper  
83 100  
85 64.8 44.6 82.8



#33  
Benzene  
Concen: 0.083 ug/L  
RT: 5.82 min Scan# 1393  
Delta R.T. -0.00 min  
Lab File: VU035831.D  
Acq: 25 Nov 2019 18:06

Tgt Ion: 78 Resp: 9421

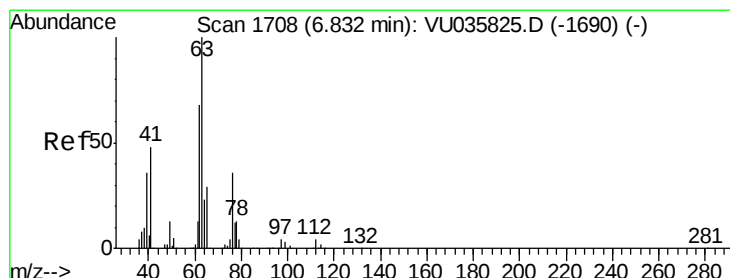
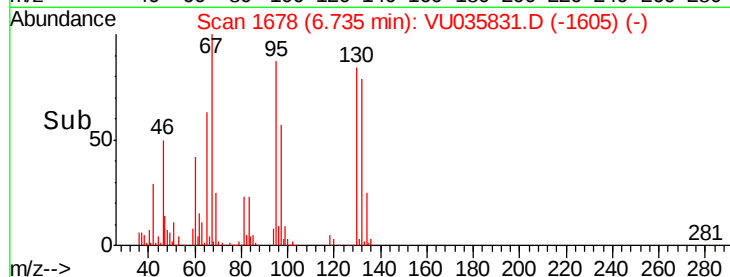
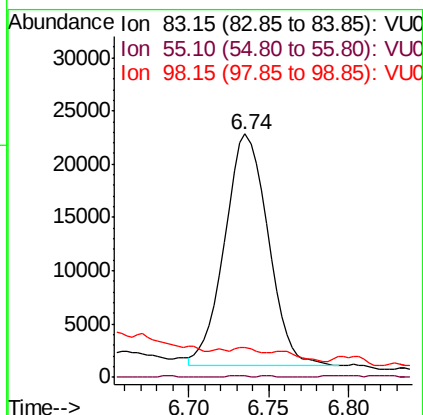
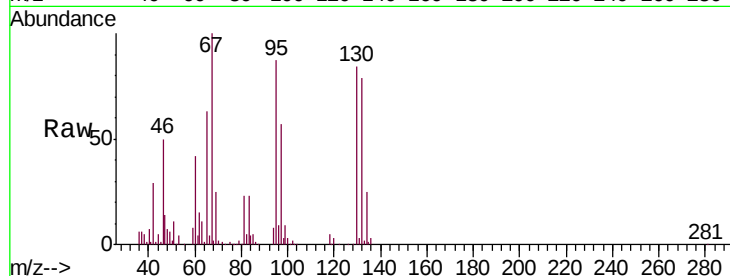




#35  
Methylcyclohexane  
Concen: 0.983 ug/L  
RT: 6.74 min Scan# 1678  
Delta R.T. -0.06 min  
Lab File: VU035831.D  
Acq: 25 Nov 2019 18:06

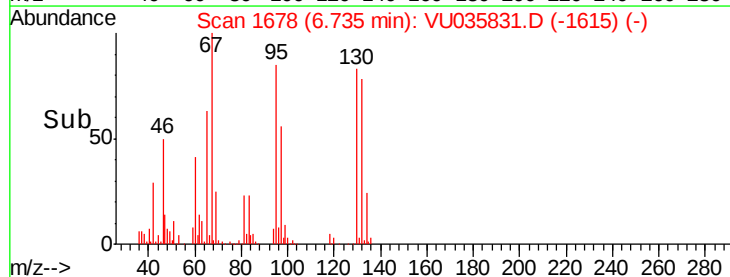
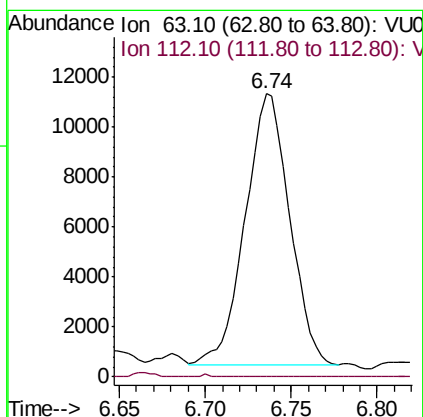
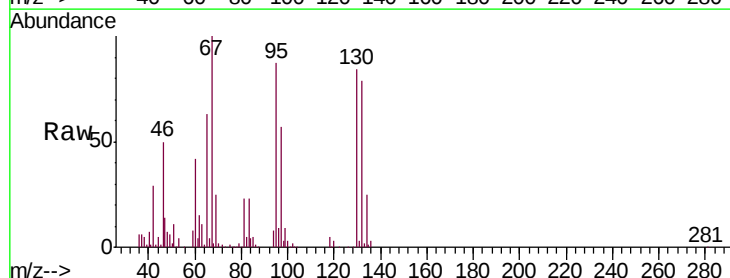
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ClientSampleId :  
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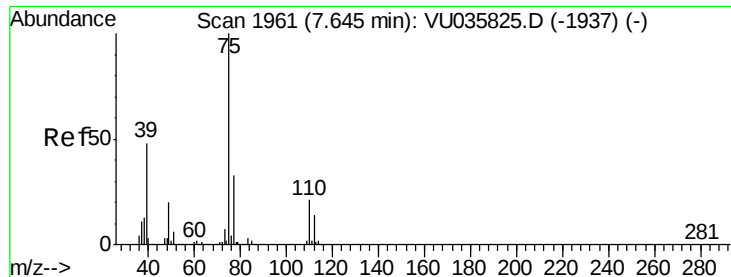
Tgt Ion: 83 Resp: 40115  
Ion Ratio Lower Upper  
83 100  
55 0.3 72.7 109.1#  
98 0.0 36.2 54.4#



#37  
1,2-Dichloropropane  
Concen: 0.601 ug/L  
RT: 6.74 min Scan# 1678  
Delta R.T. -0.10 min  
Lab File: VU035831.D  
Acq: 25 Nov 2019 18:06

Tgt Ion: 63 Resp: 19320  
Ion Ratio Lower Upper  
63 100  
112 0.7 2.7 4.1#





#39

cis-1,3-Dichloropropene

Concen: 0.112 ug/L

RT: 7.61 min Scan# 1949

Delta R.T. -0.04 min

Lab File: VU035831.D

Acq: 25 Nov 2019 18:06

Instrument :

MSVOA\_U

ClientSampleId :

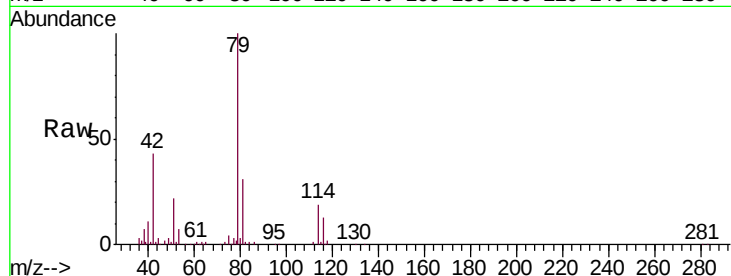
GARE5

Tgt Ion: 75 Resp: 4664

Ion Ratio Lower Upper

75 100

77 60.6 22.1 41.1#



Abundance Ion 75.05 (74.75 to 75.75): VU035825.D (-1937) (-)

Ion 77.05 (76.75 to 77.75): VU035825.D (-1937) (-)

7.61

2500

2000

1500

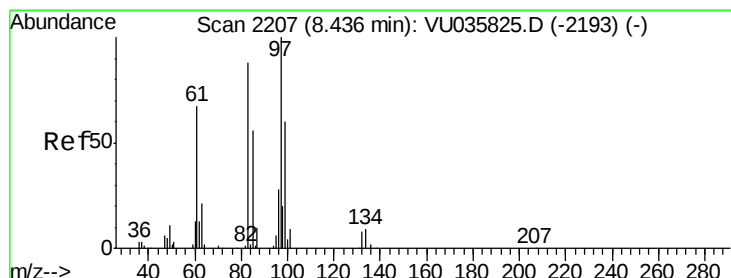
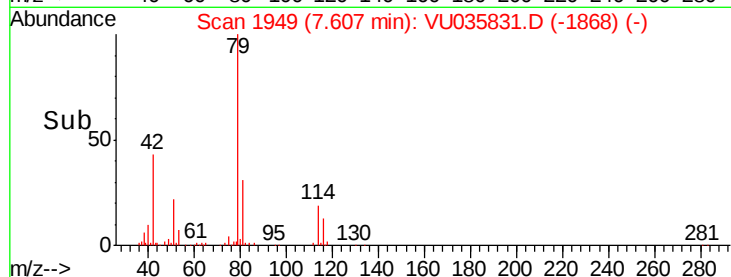
1000

500

0

7.55 7.60 7.65

Time-->



#45

1,1,2-Trichloroethane

Concen: 0.656 ug/L

RT: 8.43 min Scan# 2206

Delta R.T. -0.00 min

Lab File: VU035831.D

Acq: 25 Nov 2019 18:06

Tgt Ion: 97 Resp: 13738

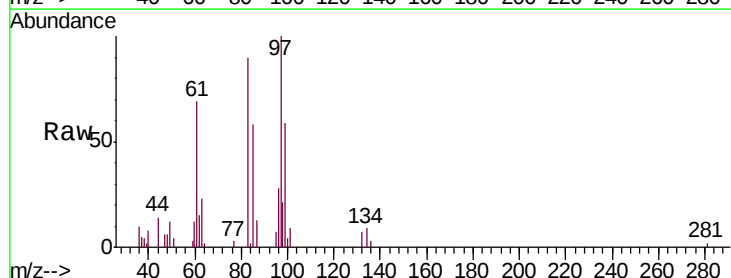
Ion Ratio Lower Upper

97 100

99 58.7 44.2 82.0

83 90.1 62.2 115.6

85 57.5 41.5 77.1



Abundance Ion 96.95 (96.65 to 97.65): VU035825.D (-2193) (-)

Ion 99.05 (98.75 to 99.75): VU035825.D (-2193) (-)

Ion 82.95 (82.65 to 83.65): VU035825.D (-2193) (-)

Ion 85.00 (84.70 to 85.70): VU035825.D (-2193) (-)

8.43

12000

10000

8000

6000

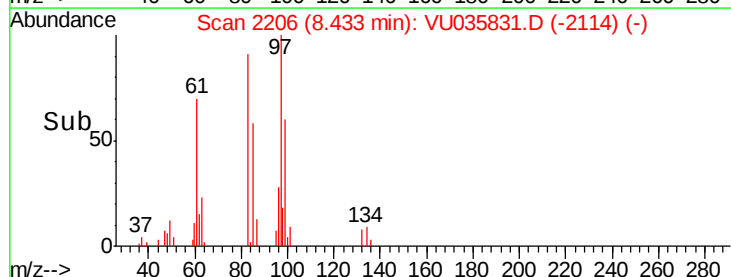
4000

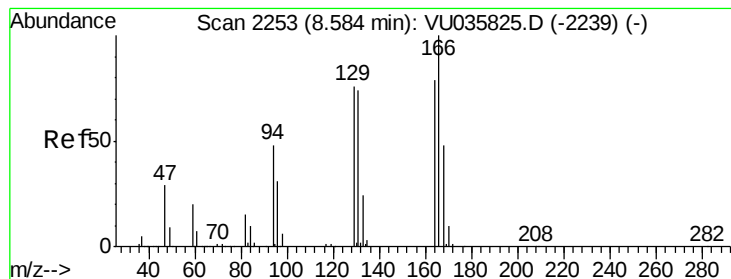
2000

0

8.40 8.45 8.50

Time-->





#47

Tetrachloroethene

Concen: 1.283 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VU035831.D

Acq: 25 Nov 2019 18:06

Instrument :

MSVOA\_U

ClientSampleId :

GARE5

Tgt Ion:164 Resp: 27139

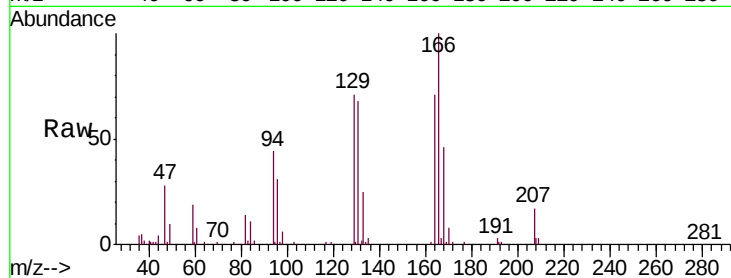
Ion Ratio Lower Upper

164 100

129 99.3 68.8 127.8

131 95.6 67.3 124.9

166 140.2 91.6 170.2

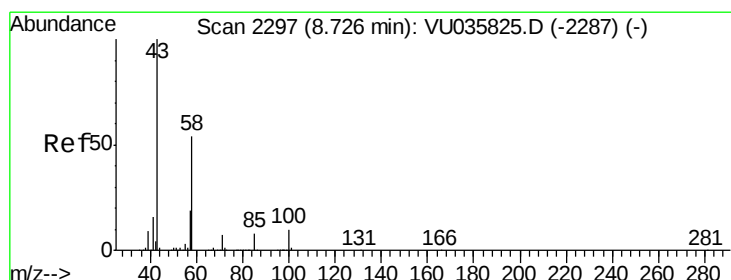
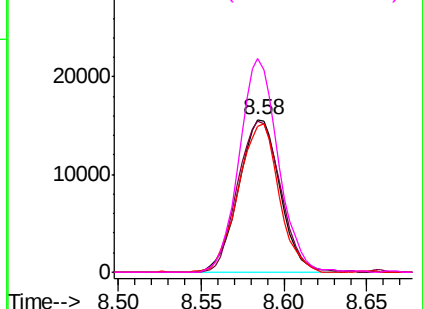
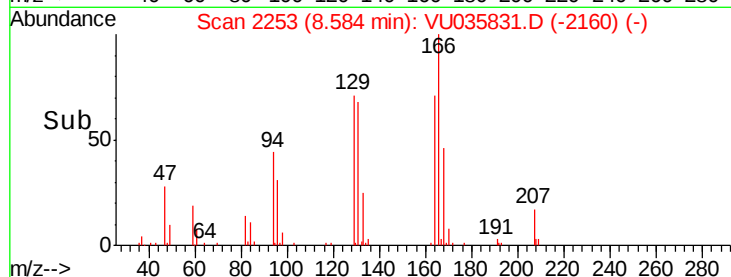


Abundance Ion 163.90 (163.60 to 164.60): V

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: 2.555 ug/L

RT: 8.69 min Scan# 2285

Delta R.T. -0.04 min

Lab File: VU035831.D

Acq: 25 Nov 2019 18:06

Tgt Ion: 43 Resp: 37145

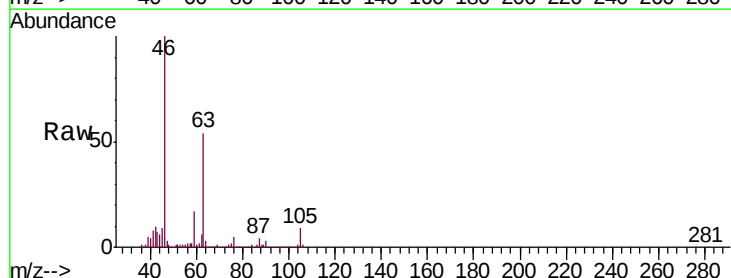
Ion Ratio Lower Upper

43 100

58 25.4 39.8 59.8#

57 41.3 14.0 21.0#

100 1.5 7.2 10.8#

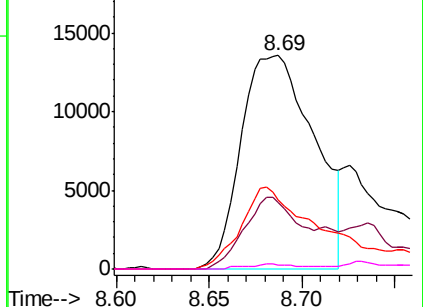
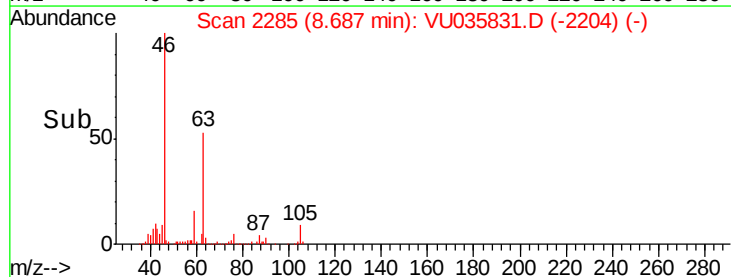


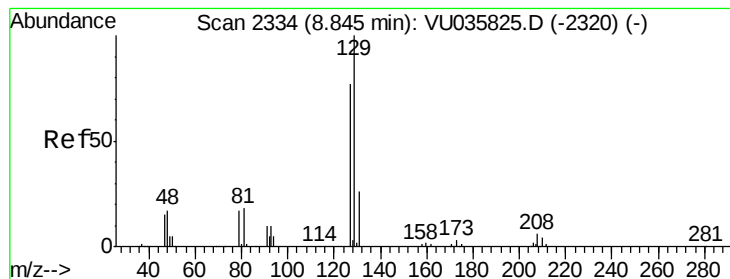
Abundance Ion 43.05 (42.75 to 43.75): VU0

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: 1.123 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. -0.26 min

Lab File: VU035831.D

Acq: 25 Nov 2019 18:06

Instrument :

MSVOA\_U

ClientSampleId :

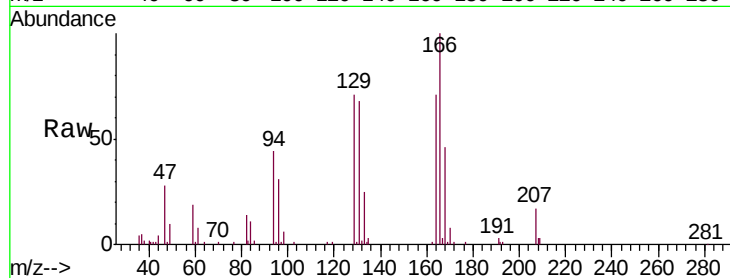
GARE5

Tgt Ion:129 Resp: 27776

Ion Ratio Lower Upper

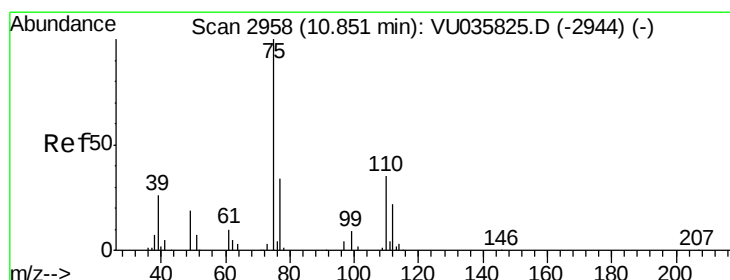
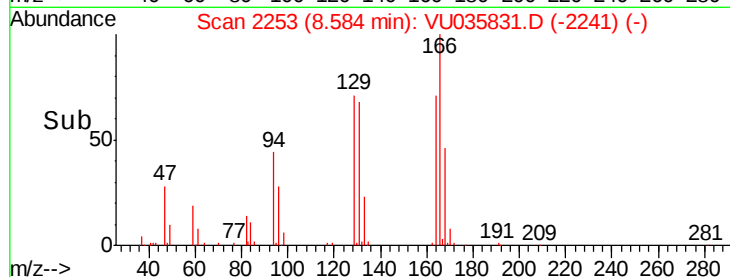
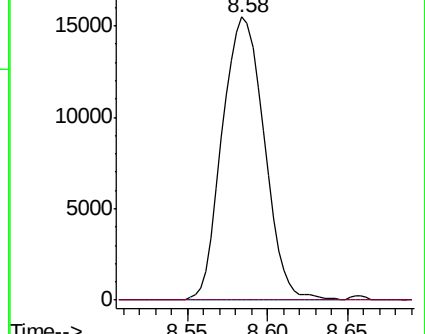
129 100

127 0.0 53.1 98.5#



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: 0.599 ug/L

RT: 11.84 min Scan# 3266

Delta R.T. 0.99 min

Lab File: VU035831.D

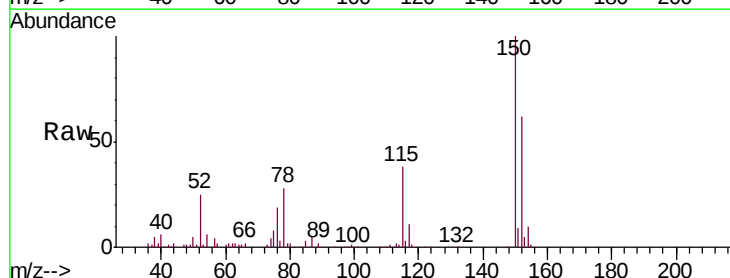
Acq: 25 Nov 2019 18:06

Tgt Ion: 75 Resp: 12531

Ion Ratio Lower Upper

75 100

77 37.5 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

