

Data File : VU032492.D  
Acq On : 06 Jun 2019 13:21  
Operator : JC/SP  
Sample : K3213-09  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8J9

Quant Time: Jun 07 04:10:57 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Jun 07 04:06:44 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 219540   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.08  | 117  | 205278   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 106902   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 49918    | 35.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 70.10%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 45103    | 39.40    | ug/L | 0.02    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 78.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 82966    | 29.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 59.50%# |
| 21) 2-Butanone-d5              | 4.17    | 46    | 132924   | 111.52   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 111.52% |
| 24) Chloroform-d               | 4.64    | 84    | 118221   | 44.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 79536    | 47.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.06%  |
| 32) Benzene-d6                 | 5.33    | 84    | 249007   | 46.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.46%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 79462    | 47.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 95.10%  |
| 41) Toluene-d8                 | 7.56    | 98    | 237758   | 47.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 94.10%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 38614    | 48.29    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 96.58%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 95669    | 118.03   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 118.03% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 125824   | 51.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 103.94% |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 105013   | 51.29    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 102.58% |

#### Target Compounds

|                                |       |     |        |               | Qvalue |
|--------------------------------|-------|-----|--------|---------------|--------|
| 5) Vinyl chloride              | 1.40  | 62  | 1864   | 0.976 ug/L #  | 35     |
| 8) Chloroethane                | 1.69  | 64  | 720    | 0.634 ug/L    | 93     |
| 13) Acetone                    | 2.32  | 43  | 2538   | 2.064 ug/L    | 85     |
| 17) trans-1,2-Dichloroethene   | 2.98  | 96  | 2177   | 1.542 ug/L    | 97     |
| 19) 1,1-Dichloroethane         | 3.44  | 63  | 2358   | 0.916 ug/L    | 97     |
| 33) Benzene                    | 5.39  | 78  | 31972  | 5.543 ug/L    | 100    |
| 39) cis-1,3-Dichloropropene    | 7.22  | 75  | 2525   | 1.047 ug/L #  | 75     |
| 44) trans-1,3-Dichloropropene  | 7.84  | 75  | 1830   | 0.855 ug/L    | 85     |
| 48) 2-Hexanone                 | 8.31  | 43  | 131938 | 65.307 ug/L # | 42     |
| 51) Chlorobenzene              | 9.12  | 112 | 15230  | 3.742 ug/L    | 97     |
| 56) Isopropylbenzene           | 10.16 | 105 | 5824   | 0.831 ug/L    | 98     |
| 58) 1,1,2,2-Tetrachloroethane  | 10.49 | 83  | 4330   | 1.752 ug/L #  | 31     |
| 59) 1,2,3-Trichloropropane     | 10.39 | 75  | 1394   | 0.701 ug/L    | 98     |
| 63) 1,4-Dichlorobenzene        | 11.50 | 146 | 2252   | 0.681 ug/L #  | 84     |
| 66) 1,2-Dibromo-3-chloropropan | 12.70 | 75  | 3154   | 5.733 ug/L #  | 1      |
| 69) Naphthalene                | 13.74 | 128 | 12351  | 1.837 ug/L    | 98     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU060619\  
Quantitation Report (Not Reviewed)

Data File : VU032492.D  
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Quant Title : VOC Analysis  
QLast Update : Fri Jun 07 04:06:44 2019  
Response via : Initial Calibration

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

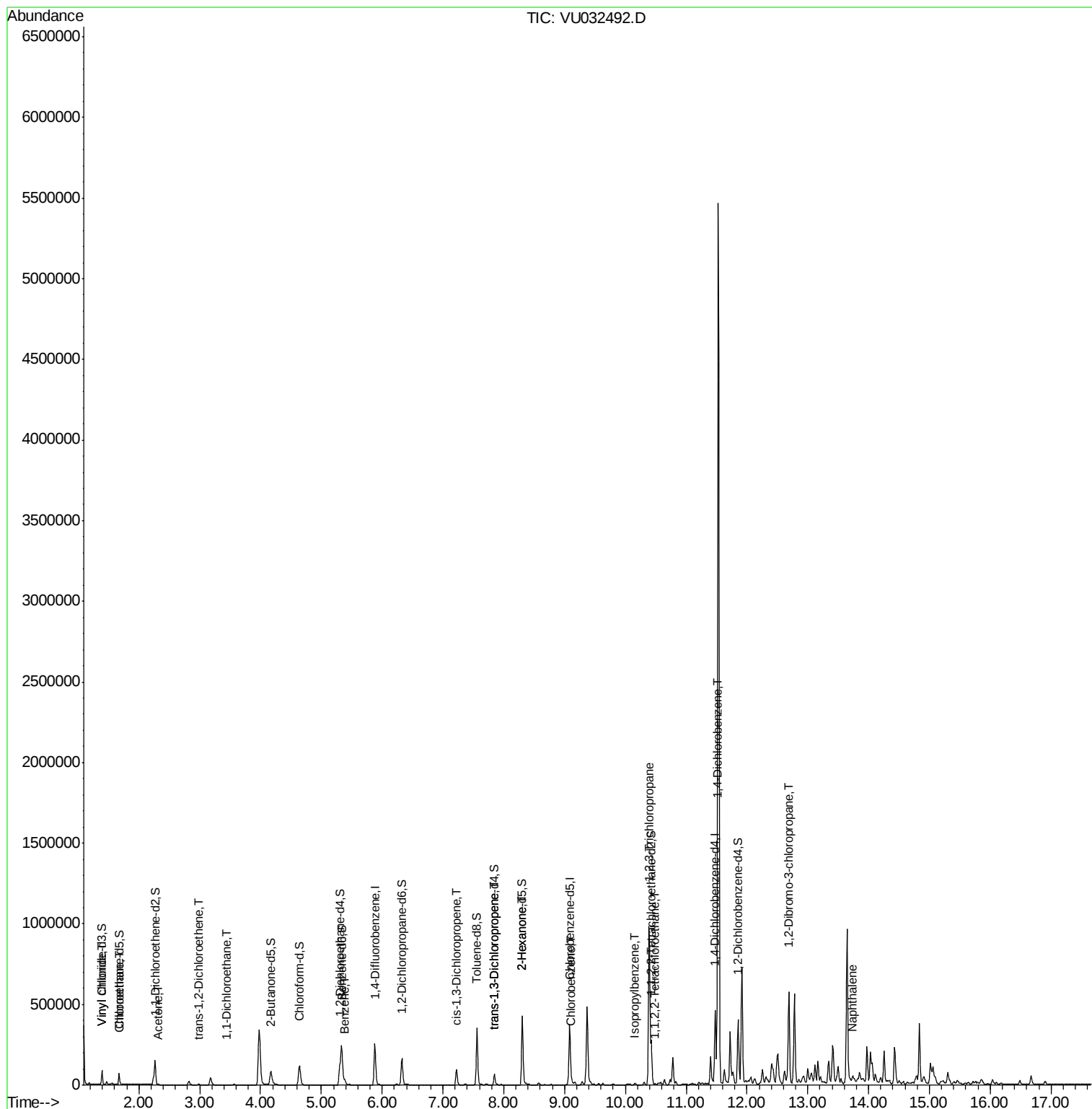
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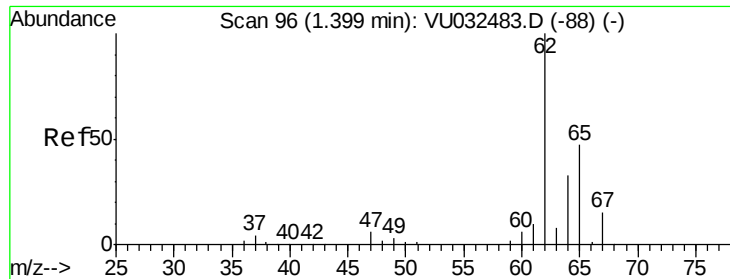
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DB8J9

Quant Time: Jun 07 04:10:57 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Jun 07 04:06:44 2019  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.976 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU032492.D

Acq: 06 Jun 2019 13:21

Instrument :

MSVOA\_U

ClientSampleId :

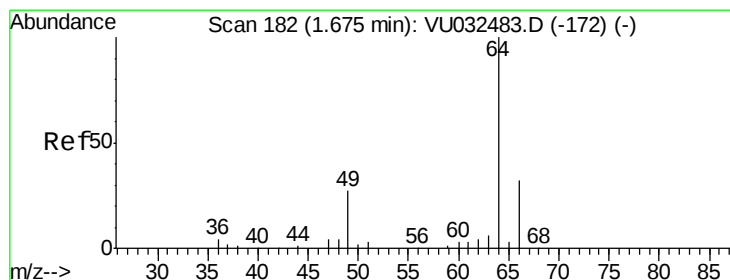
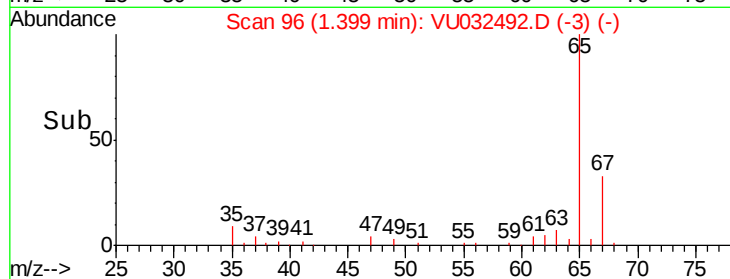
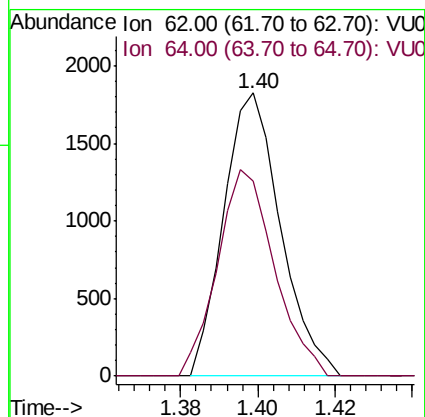
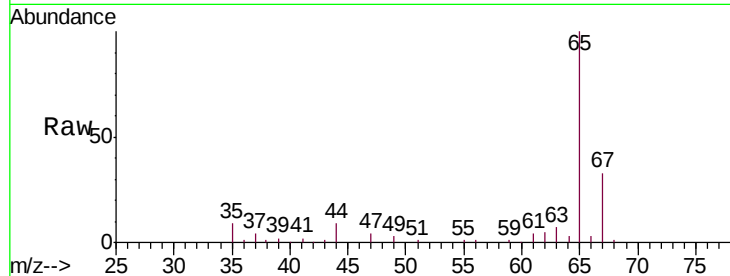
DB8J9

Tgt Ion: 62 Resp: 1864

Ion Ratio Lower Upper

62 100

64 68.9 22.6 42.0#



#8

Chloroethane

Concen: 0.634 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.02 min

Lab File: VU032492.D

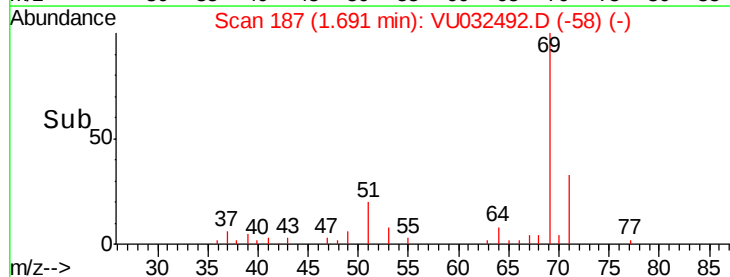
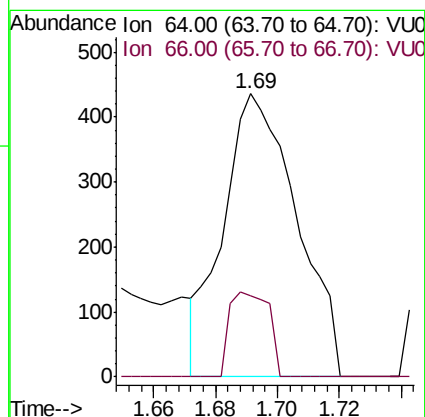
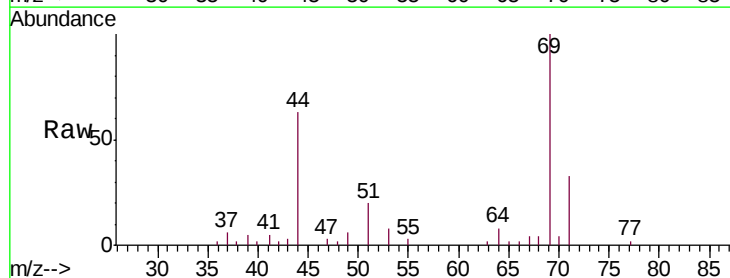
Acq: 06 Jun 2019 13:21

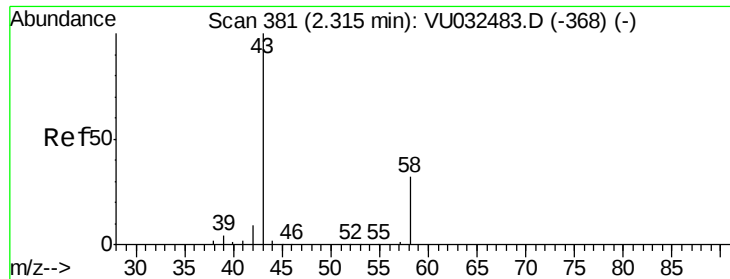
Tgt Ion: 64 Resp: 720

Ion Ratio Lower Upper

64 100

66 28.7 22.9 42.5





#13

Acetone

Concen: 2.064 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU032492.D

Acq: 06 Jun 2019 13:21

Instrument :

MSVOA\_U

ClientSampleId :

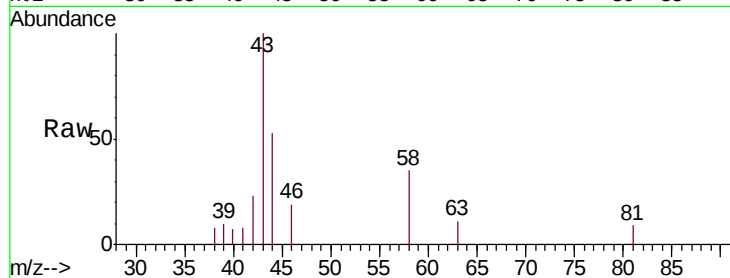
DB8J9

Tgt Ion: 43 Resp: 2538

Ion Ratio Lower Upper

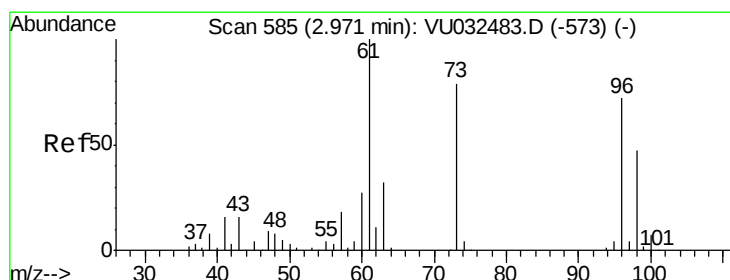
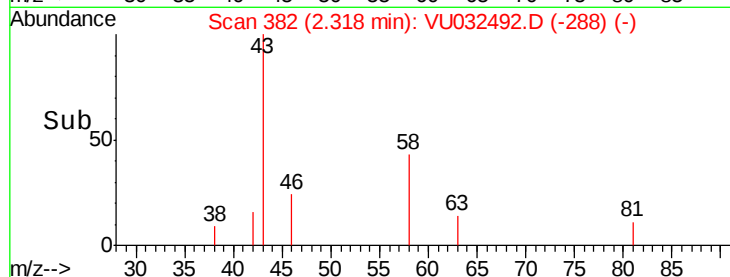
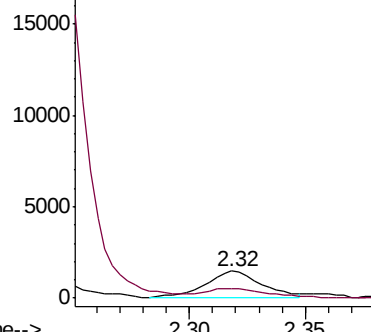
43 100

58 40.2 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU032483.D (-368) (-)

Ion 58.00 (57.70 to 58.70): VU032483.D (-368) (-)



#17

trans-1,2-Dichloroethene

Concen: 1.542 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.01 min

Lab File: VU032492.D

Acq: 06 Jun 2019 13:21

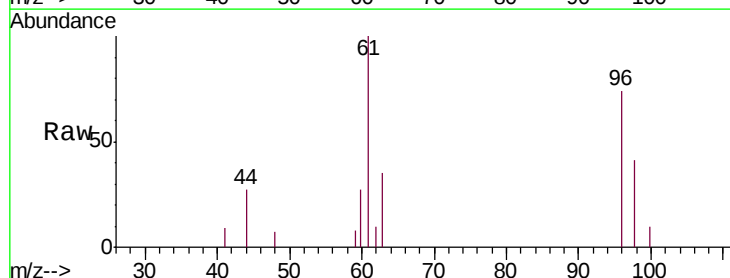
Tgt Ion: 96 Resp: 2177

Ion Ratio Lower Upper

96 100

61 135.9 95.7 177.7

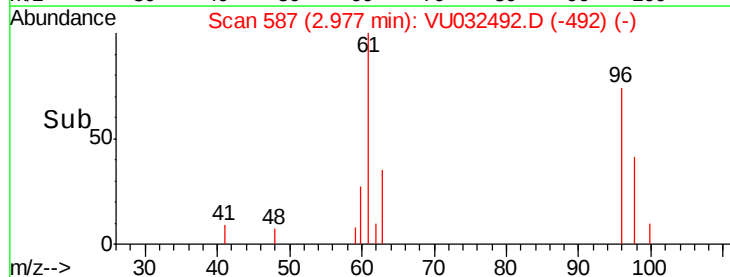
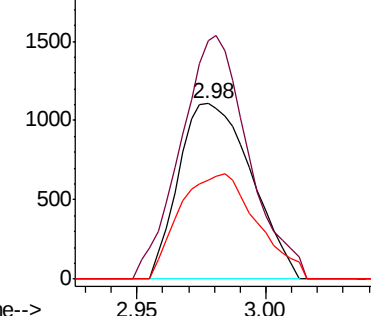
98 56.3 44.0 81.6

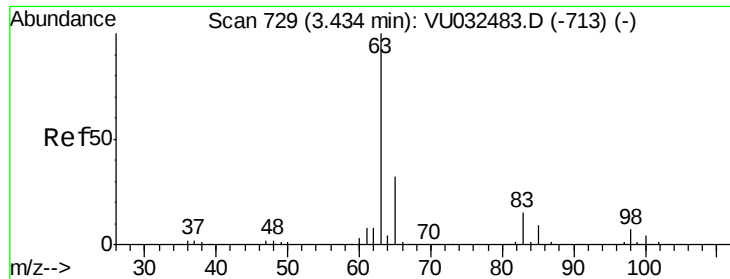


Abundance Ion 96.00 (95.70 to 96.70): VU032483.D (-573) (-)

Ion 61.00 (60.70 to 61.70): VU032483.D (-573) (-)

Ion 98.00 (97.70 to 98.70): VU032483.D (-573) (-)

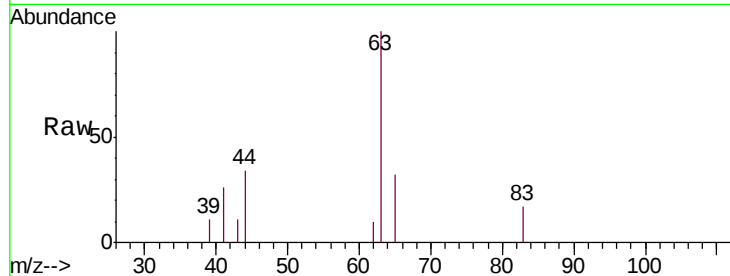




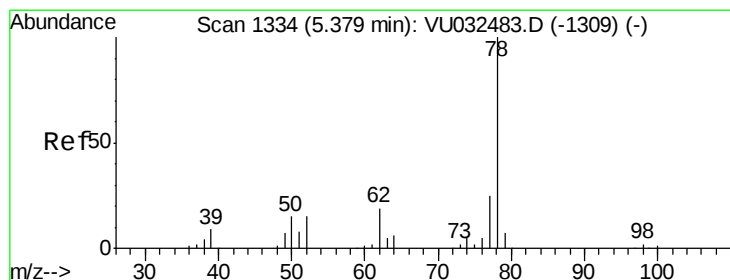
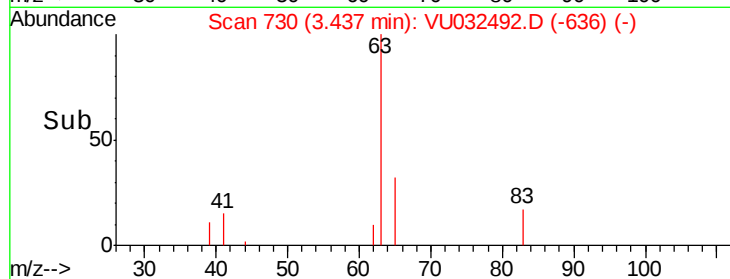
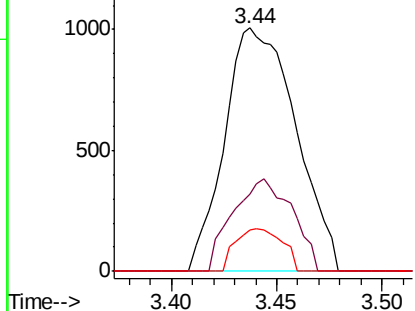
#19  
 1,1-Dichloroethane  
 Concen: 0.916 ug/L  
 RT: 3.44 min Scan# 730  
 Delta R.T. 0.00 min  
 Lab File: VU032492.D  
 Acq: 06 Jun 2019 13:21

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB8J9

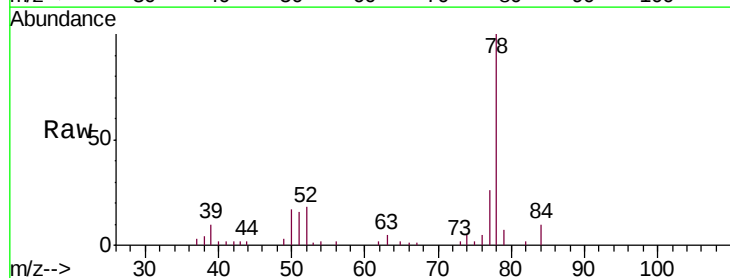
Tgt Ion: 63 Resp: 2358  
 Ion Ratio Lower Upper  
 63 100  
 65 31.9 21.8 40.6  
 83 17.1 9.8 18.2



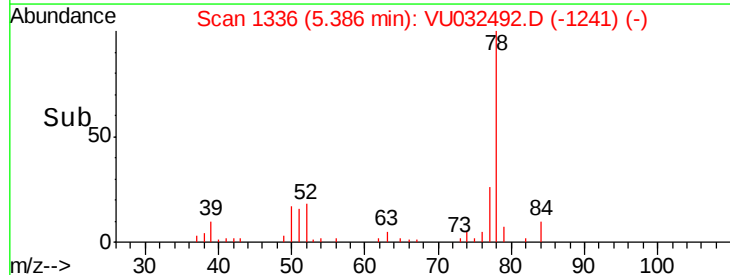
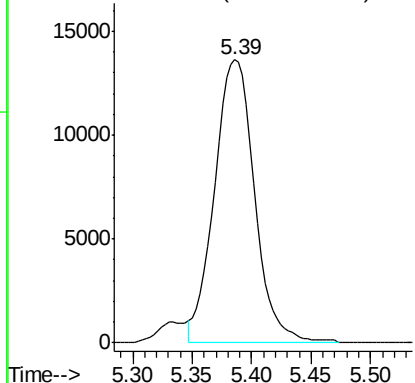
Abundance Ion 63.00 (62.70 to 63.70): VU0  
 Ion 65.00 (64.70 to 65.70): VU0  
 Ion 83.00 (82.70 to 83.70): VU0

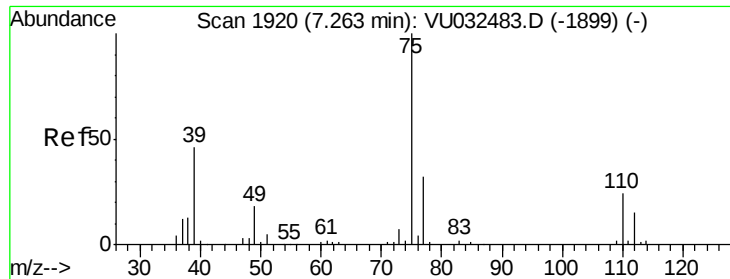


#33  
 Benzene  
 Concen: 5.543 ug/L  
 RT: 5.39 min Scan# 1336  
 Delta R.T. 0.01 min  
 Lab File: VU032492.D  
 Acq: 06 Jun 2019 13:21  
 Tgt Ion: 78 Resp: 31972



Abundance Ion 78.00 (77.70 to 78.70): VU0



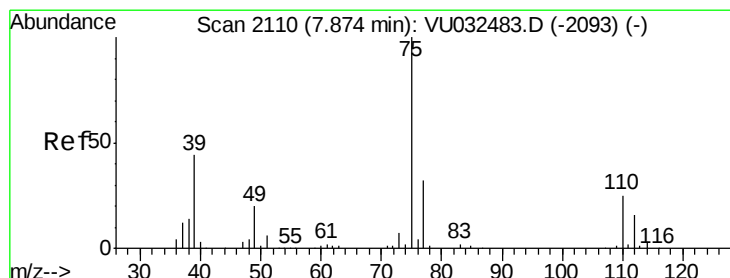
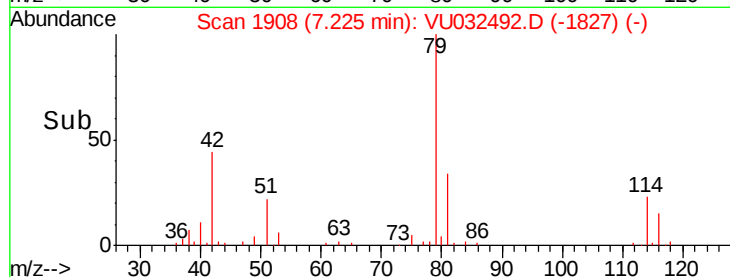
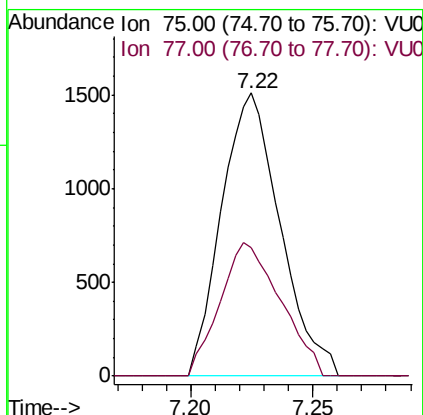
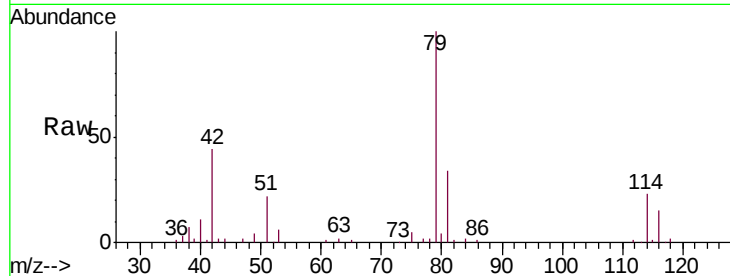


#39

cis-1,3-Dichloropropene  
Concen: 1.047 ug/L  
RT: 7.22 min Scan# 1908  
Delta R.T. -0.04 min  
Lab File: VU032492.D  
Acq: 06 Jun 2019 13:21

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8J9

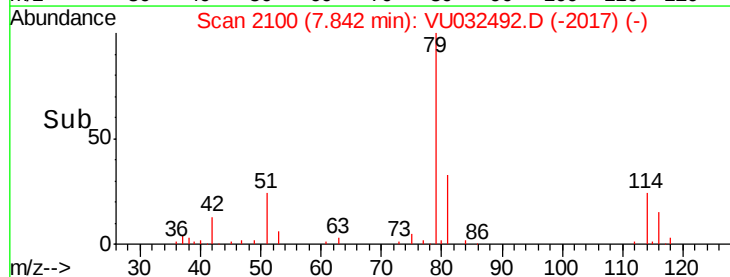
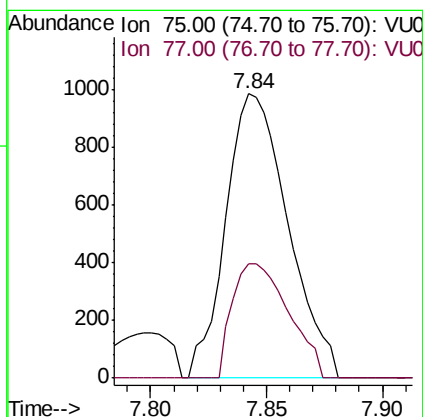
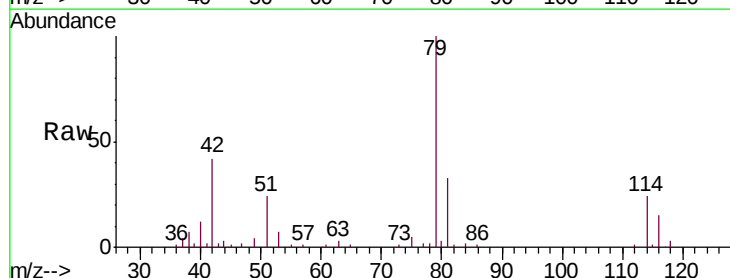
Tgt Ion: 75 Resp: 2525  
Ion Ratio Lower Upper  
75 100  
77 45.4 22.0 41.0#

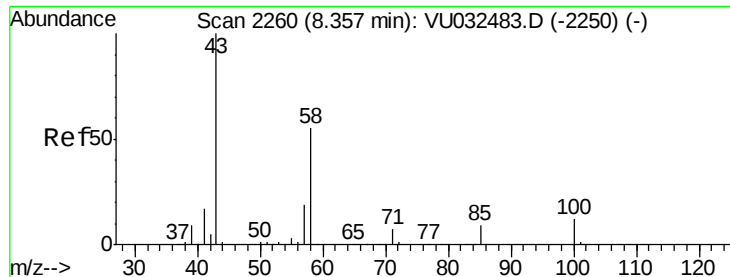


#44

trans-1,3-Dichloropropene  
Concen: 0.855 ug/L  
RT: 7.84 min Scan# 2100  
Delta R.T. -0.03 min  
Lab File: VU032492.D  
Acq: 06 Jun 2019 13:21

Tgt Ion: 75 Resp: 1830  
Ion Ratio Lower Upper  
75 100  
77 40.2 22.1 41.1

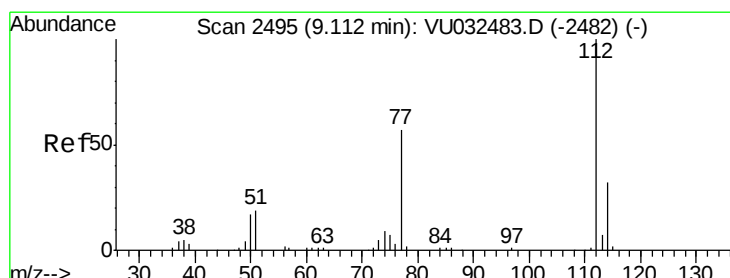
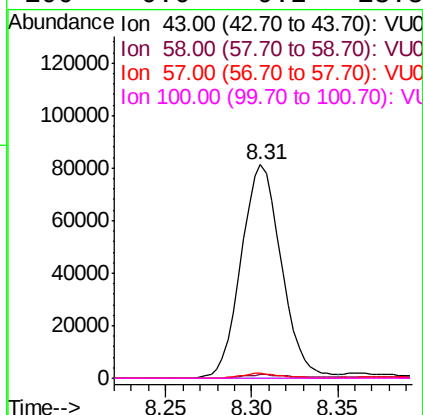
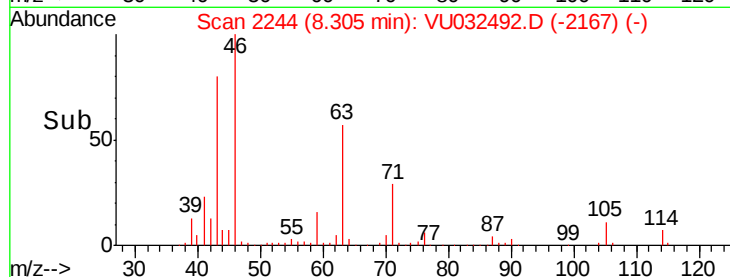
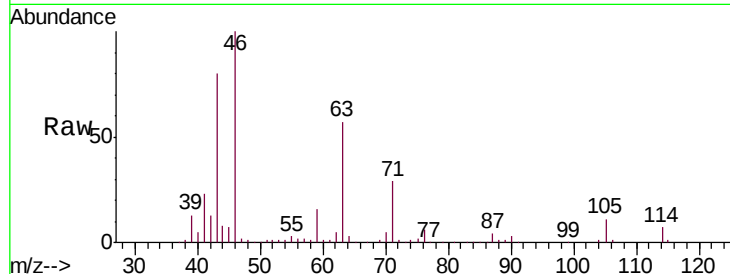




#48  
2-Hexanone  
Concen: 65.307 ug/L  
RT: 8.31 min Scan# 2244  
Delta R.T. -0.05 min  
Lab File: VU032492.D  
Acq: 06 Jun 2019 13:21

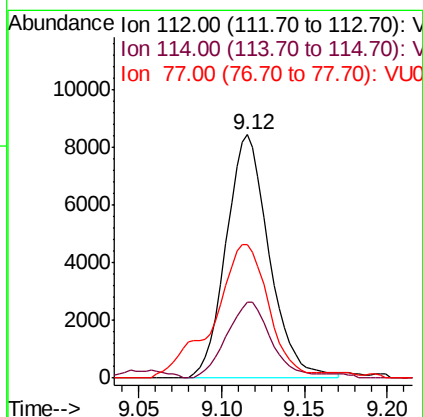
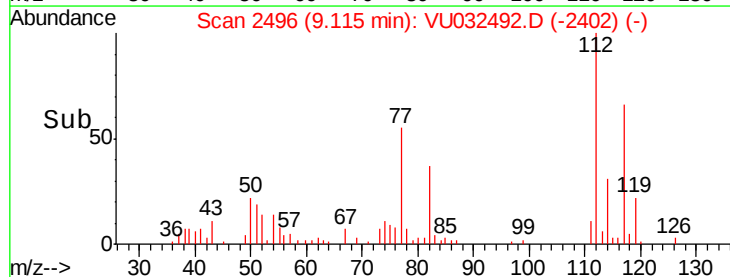
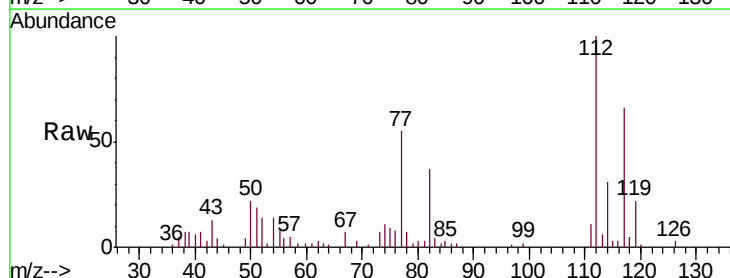
Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8J9

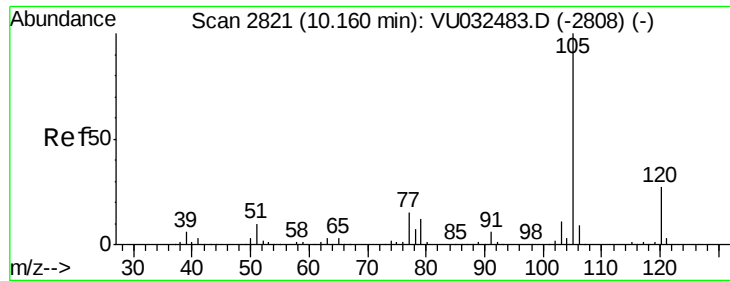
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 131938 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 2.1   | 42.0  | 63.0#  |
| 57       | 2.4   | 14.6  | 22.0#  |
| 100      | 0.0   | 9.2   | 13.8#  |



#51  
Chlorobenzene  
Concen: 3.742 ug/L  
RT: 9.12 min Scan# 2496  
Delta R.T. 0.00 min  
Lab File: VU032492.D  
Acq: 06 Jun 2019 13:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 15230 |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 114      | 31.3  | 22.6  | 42.0  |
| 77       | 54.7  | 46.1  | 69.1  |





#56

Isopropylbenzene

Concen: 0.831 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU032492.D

Acq: 06 Jun 2019 13:21

Instrument :

MSVOA\_U

ClientSampleId :

DB8J9

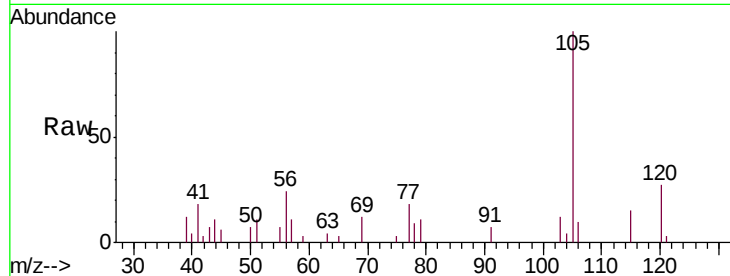
Tgt Ion: 105 Resp: 5824

Ion Ratio Lower Upper

105 100

120 26.2 21.6 32.4

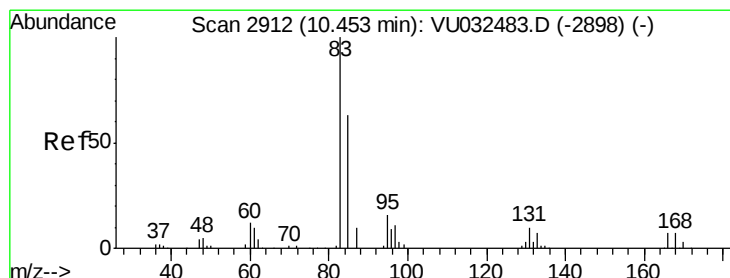
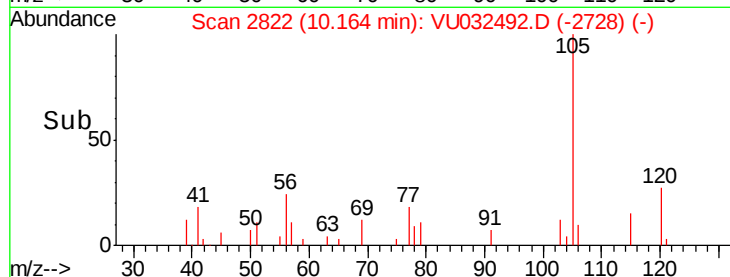
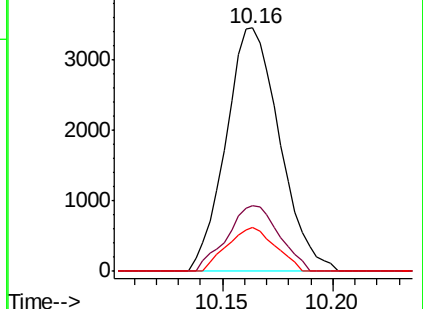
77 16.2 12.4 18.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 1.752 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.04 min

Lab File: VU032492.D

Acq: 06 Jun 2019 13:21

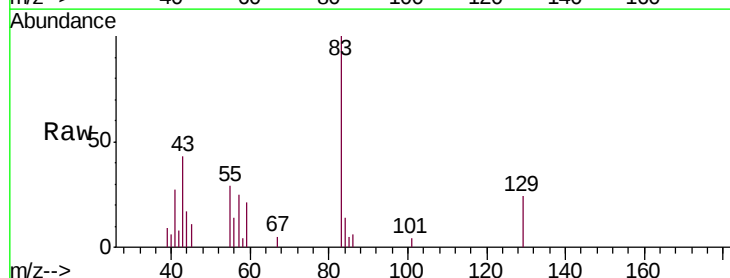
Tgt Ion: 83 Resp: 4330

Ion Ratio Lower Upper

83 100

85 5.0 45.1 83.7#

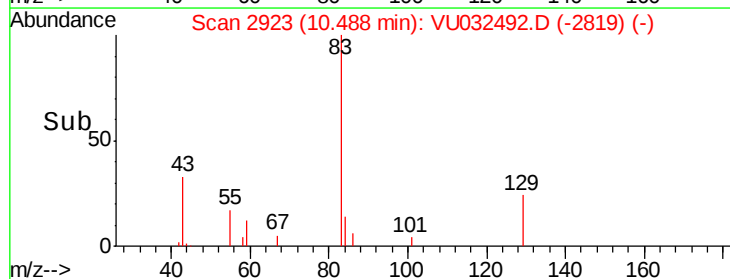
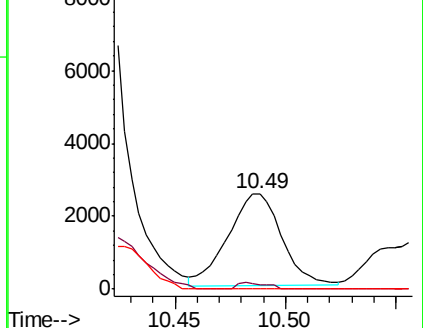
131 0.0 7.9 11.9#

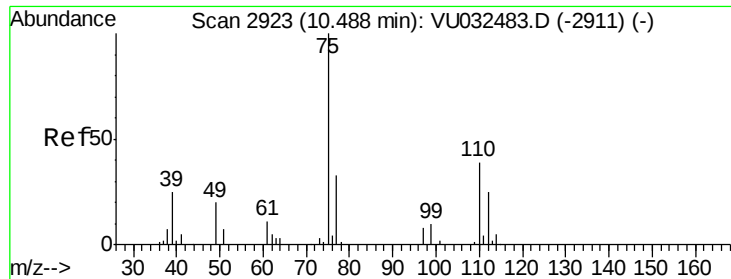


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

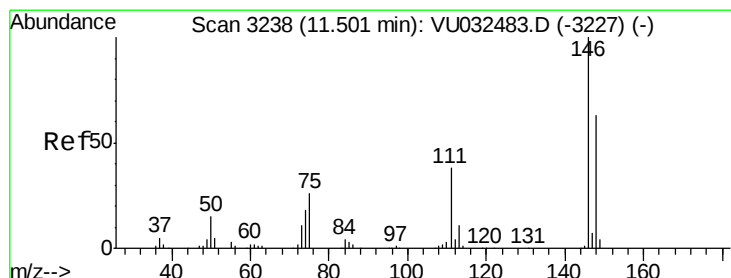
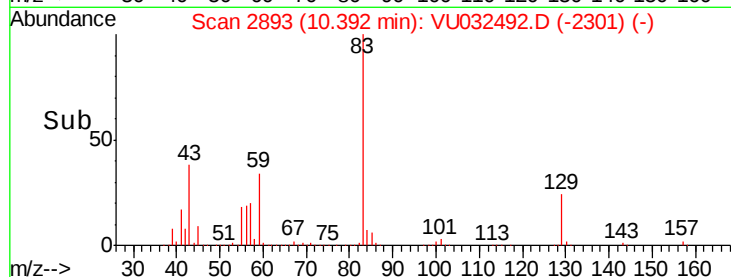
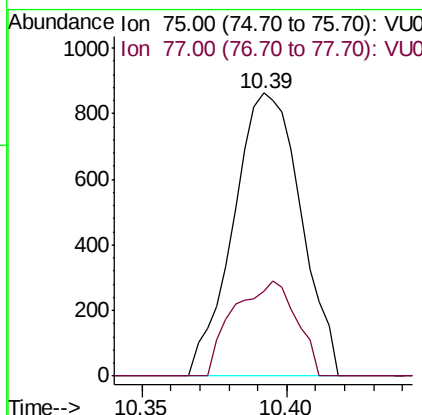
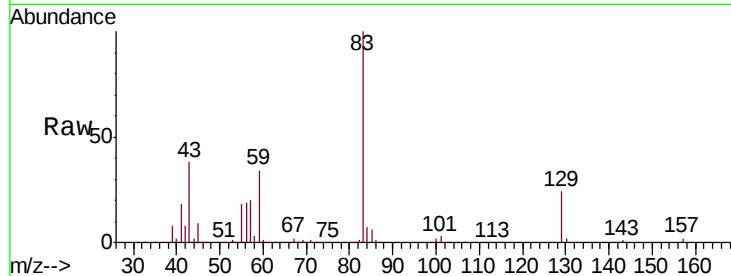




#59  
 1,2,3-Trichloropropane  
 Concen: 0.701 ug/L  
 RT: 10.39 min Scan# 2893  
 Delta R.T. -0.10 min  
 Lab File: VU032492.D  
 Acq: 06 Jun 2019 13:21

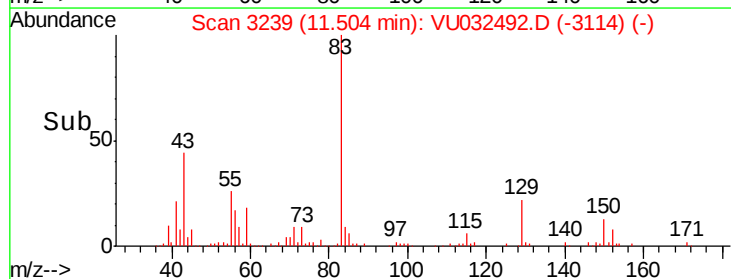
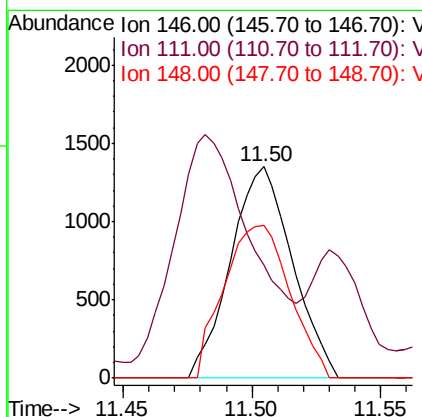
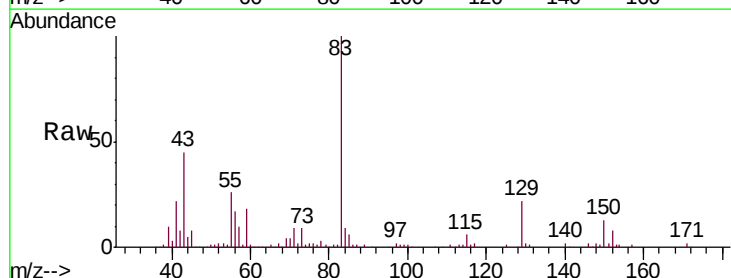
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB8J9

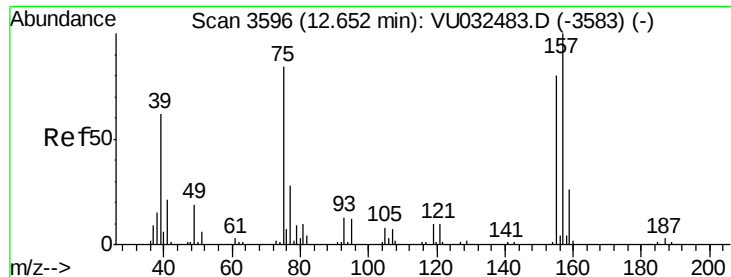
Tgt Ion: 75 Resp: 1394  
 Ion Ratio Lower Upper  
 75 100  
 77 31.1 25.6 38.4



#63  
 1,4-Dichlorobenzene  
 Concen: 0.681 ug/L  
 RT: 11.50 min Scan# 3239  
 Delta R.T. 0.00 min  
 Lab File: VU032492.D  
 Acq: 06 Jun 2019 13:21

Tgt Ion: 146 Resp: 2252  
 Ion Ratio Lower Upper  
 146 100  
 111 53.7 26.6 49.4#  
 148 72.3 44.9 83.5

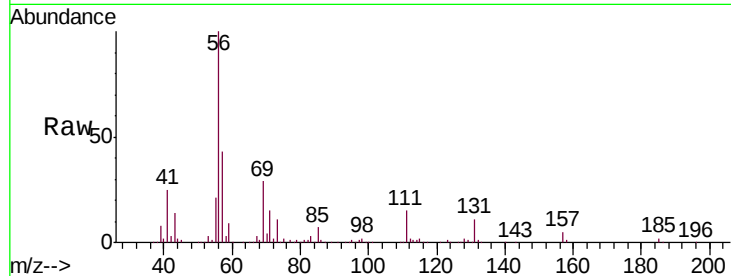




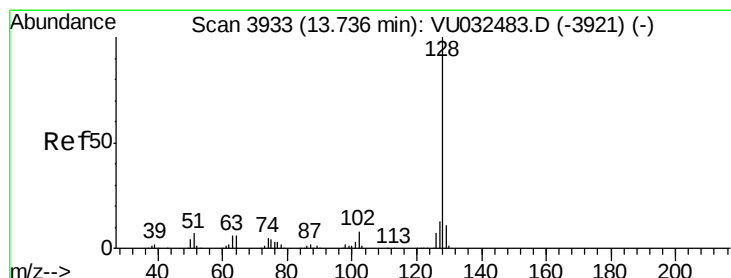
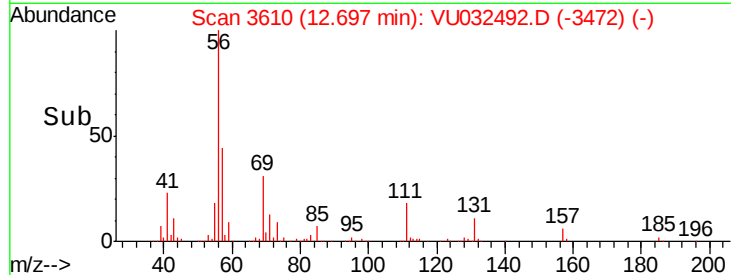
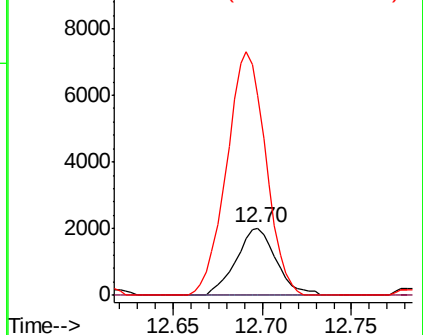
#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 5.733 ug/L  
 RT: 12.70 min Scan# 3610  
 Delta R.T. 0.05 min  
 Lab File: VU032492.D  
 Acq: 06 Jun 2019 13:21

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB8J9

Tgt Ion: 75 Resp: 3154  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 73.1 109.7#  
 157 295.8 91.4 137.2#

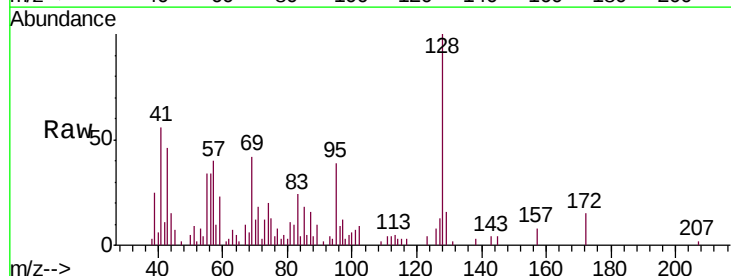


Abundance Ion 75.00 (74.70 to 75.70): VU032483.D (-3583) (-)  
 Ion 155.00 (154.70 to 155.70): VU032483.D (-3583) (-)  
 Ion 157.00 (156.70 to 157.70): VU032483.D (-3583) (-)



#69  
 Naphthalene  
 Concen: 1.837 ug/L  
 RT: 13.74 min Scan# 3935  
 Delta R.T. 0.01 min  
 Lab File: VU032492.D  
 Acq: 06 Jun 2019 13:21

Tgt Ion: 128 Resp: 12351  
 Ion Ratio Lower Upper  
 128 100  
 127 13.9 10.4 15.6  
 129 11.1 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): VU032483.D (-3921) (-)  
 Ion 127.00 (126.70 to 127.70): VU032483.D (-3921) (-)  
 Ion 129.00 (128.70 to 129.70): VU032483.D (-3921) (-)

