

Data File : VU030400.D  
Acq On : 25 Mar 2019 05:36  
Operator : JC/SP  
Sample : K2070-15  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 46 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C09E1

Quant Time: Mar 25 07:37:26 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Mar 25 05:48:44 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 437881   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.12  | 117  | 450958   | 50.00 | ug/L  | 0.03     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 244042   | 50.00 | ug/L  | 0.02     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 115449   | 32.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 65.52%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 102132   | 36.56    | ug/L | 0.03    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 73.12%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 193410   | 28.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 57.86%# |
| 21) 2-Butanone-d5              | 4.17    | 46    | 316491   | 95.54    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 95.54%  |
| 24) Chloroform-d               | 4.64    | 84    | 262444   | 43.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 86.44%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 178757   | 44.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.98%  |
| 32) Benzene-d6                 | 5.34    | 84    | 538334   | 41.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 83.26%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 193612   | 43.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 87.52%  |
| 41) Toluene-d8                 | 7.56    | 98    | 489997   | 42.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 84.38%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 83847    | 40.30    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 80.60%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 221572   | 92.41    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 92.41%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 281552   | 44.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 88.94%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.88   | 152   | 237292   | 48.53    | ug/L | 0.03    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.06%  |

#### Target Compounds

|                                |       |     |          |          |        | Qvalue |
|--------------------------------|-------|-----|----------|----------|--------|--------|
| 13) Acetone                    | 2.32  | 43  | 16964    | 5.064    | ug/L   | 98     |
| 25) Chloroform                 | 4.67  | 83  | 21308    | 3.323    | ug/L   | 99     |
| 27) 1,2-Dichloroethane         | 5.39  | 62  | 93643    | 18.613   | ug/L # | 75     |
| 29) Cyclohexane                | 4.99  | 56  | 8443     | 1.237    | ug/L   | 90     |
| 31) Carbon tetrachloride       | 5.13  | 117 | 40317    | 8.614    | ug/L   | 98     |
| 33) Benzene                    | 5.39  | 78  | 11157893 | 726.848  | ug/L   | 100    |
| 35) Methylcyclohexane          | 6.41  | 83  | 5415     | 0.872    | ug/L # | 73     |
| 39) cis-1,3-Dichloropropene    | 7.23  | 75  | 4854     | 0.775    | ug/L # | 62     |
| 42) Toluene                    | 7.64  | 91  | 16781    | 1.053    | ug/L   | 97     |
| 46) Tetrachloroethene          | 8.23  | 164 | 2346     | 0.890    | ug/L   | 80     |
| 48) 2-Hexanone                 | 8.31  | 43  | 25317    | 4.221    | ug/L # | 71     |
| 59) 1,2,3-Trichloropropane     | 10.45 | 75  | 4296     | 0.810    | ug/L # | 1      |
| 62) 1,3-Dichlorobenzene        | 11.42 | 146 | 13440104 | 1684.048 | ug/L   | 98     |
| 63) 1,4-Dichlorobenzene        | 11.42 | 146 | 13440104 | 1635.833 | ug/L   | 98     |
| 66) 1,2-Dibromo-3-chloropropan | 12.63 | 75  | 281272   | 156.534  | ug/L # | 7      |
| 67) 1,3,5-Trichlorobenzene     | 12.89 | 180 | 58905    | 9.859    | ug/L   | 100    |
| 69) Naphthalene                | 13.74 | 128 | 31493    | 1.706    | ug/L   | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU032419\  
Quantitation Report (Not Reviewed)

Data File : VU030400.D  
Acq On : 25 Mar 2019 05:36  
Operator : JC/SP  
Sample : K2070-15  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 46 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C09E1

Quant Time: Mar 25 07:37:26 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Mar 25 05:48:44 2019  
Response via : Initial Calibration

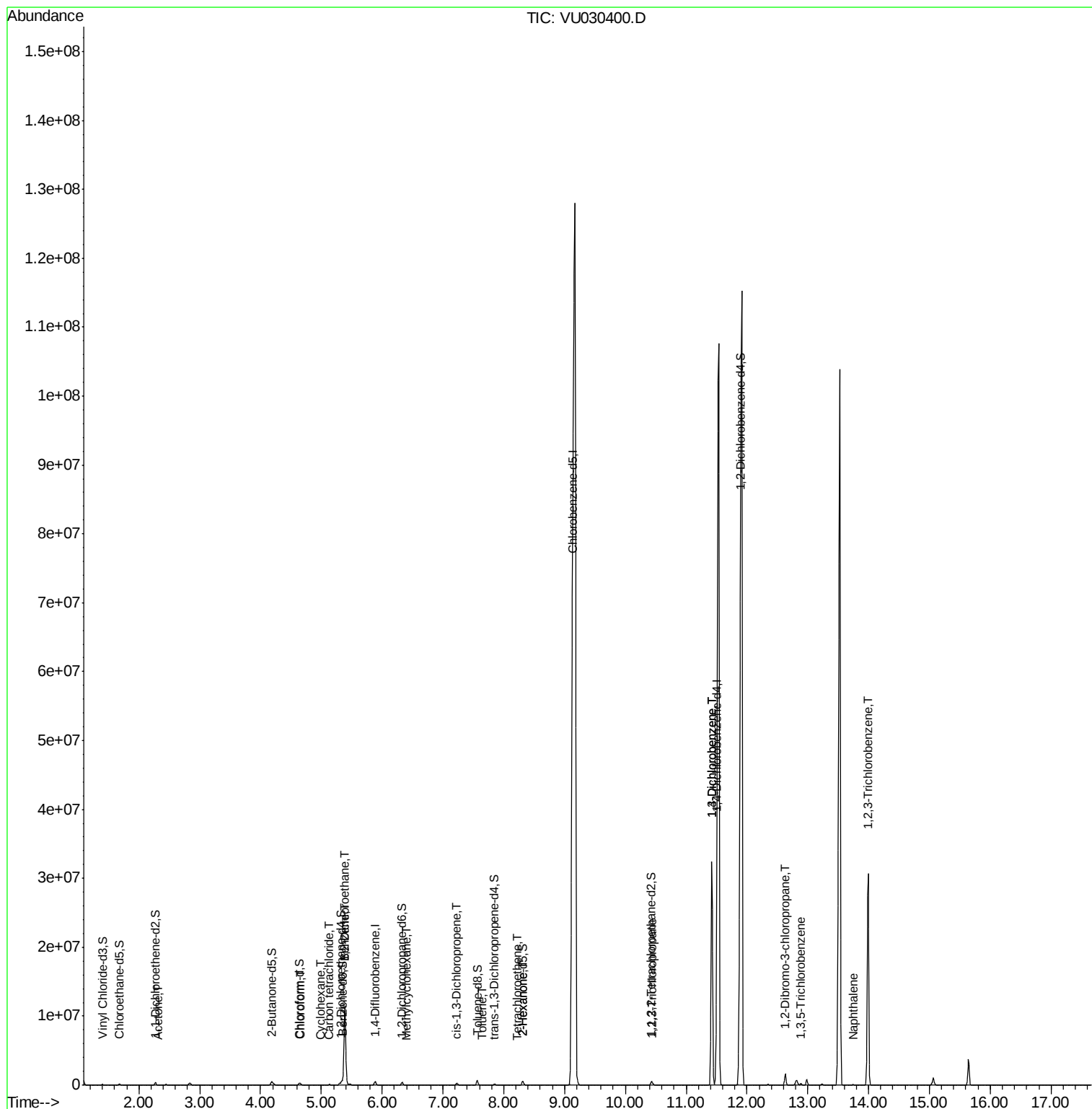
| Internal Standards         | R.T.  | QIon | Response | Conc     | Units | Dev(Min) |
|----------------------------|-------|------|----------|----------|-------|----------|
| 70) 1,2,3-Trichlorobenzene | 13.99 | 180  | 9188041  | 1676.131 | ug/L  | 99       |

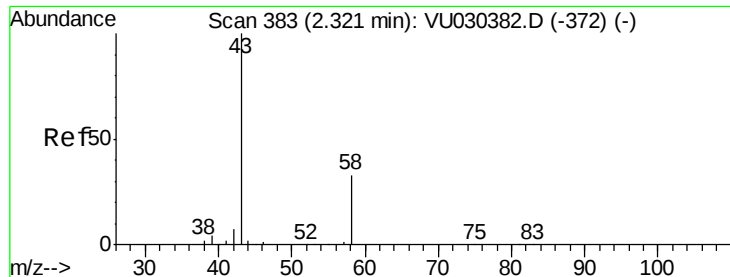
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VU030400.D  
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Mar 25 05:48:44 2019  
Response via : Initial Calibration





#13

Acetone

Concen: 5.064 ug/L

RT: 2.32 min Scan# 383

Delta R.T. -0.00 min

Lab File: VU030400.D

Acq: 25 Mar 2019 05:36

Instrument :

MSVOA\_U

ClientSampleId :

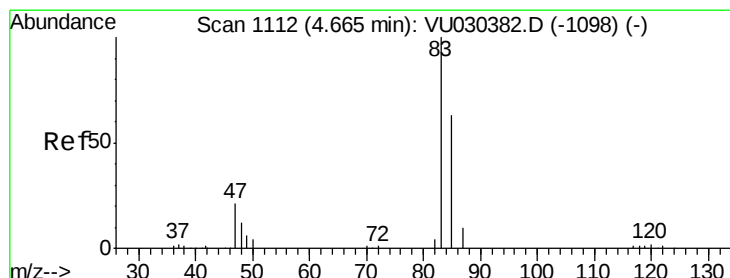
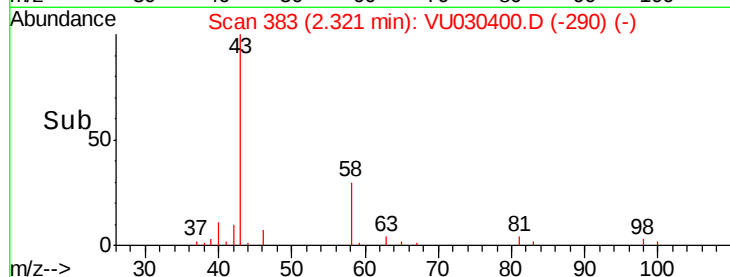
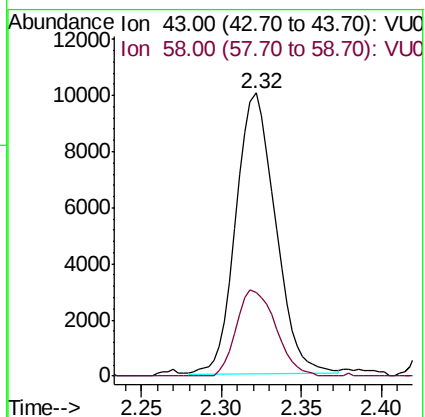
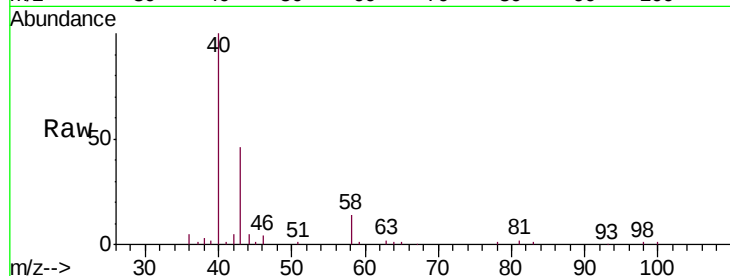
C09E1

Tgt Ion: 43 Resp: 16964

Ion Ratio Lower Upper

43 100

58 30.4 0.0 62.8



#25

Chloroform

Concen: 3.323 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VU030400.D

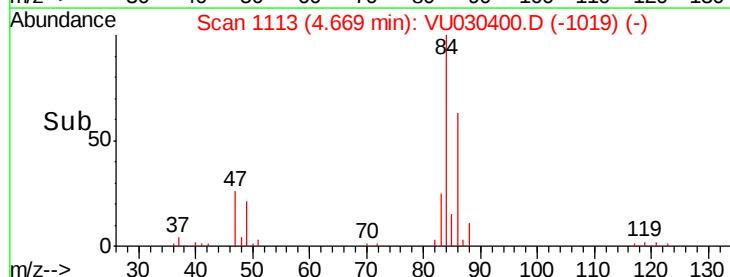
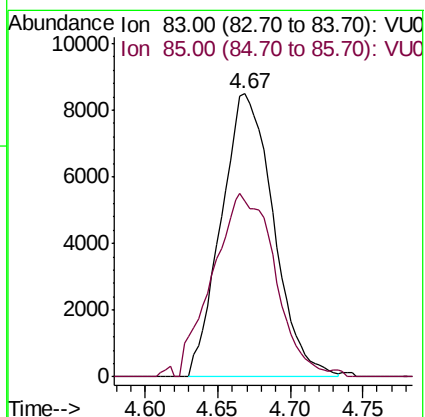
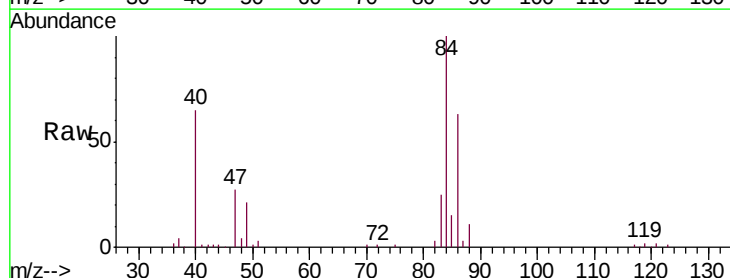
Acq: 25 Mar 2019 05:36

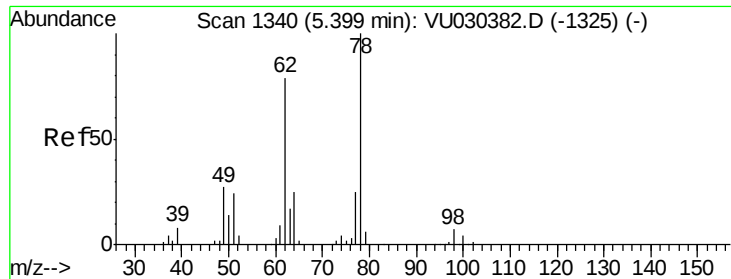
Tgt Ion: 83 Resp: 21308

Ion Ratio Lower Upper

83 100

85 62.2 44.4 82.4

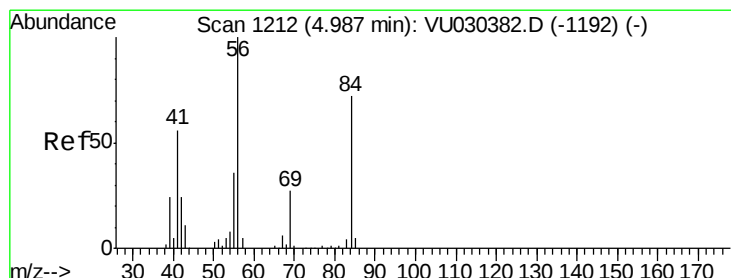
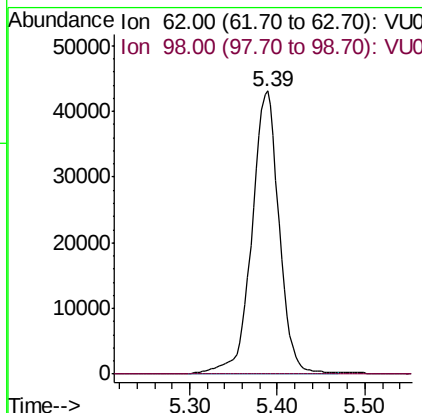
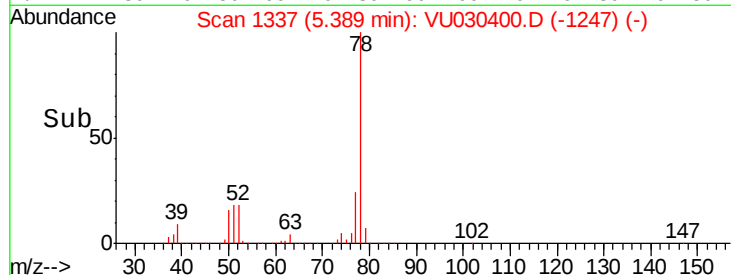
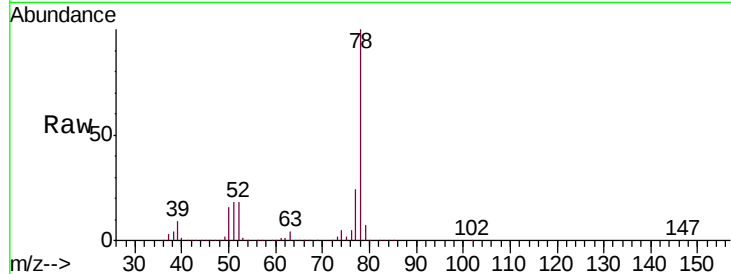




#27  
 1,2-Dichloroethane  
 Concen: 18.613 ug/L  
 RT: 5.39 min Scan# 1337  
 Delta R.T. -0.01 min  
 Lab File: VU030400.D  
 Acq: 25 Mar 2019 05:36

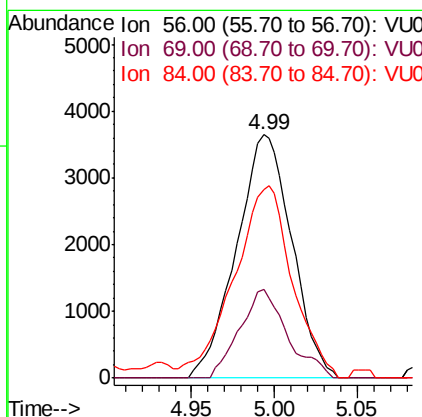
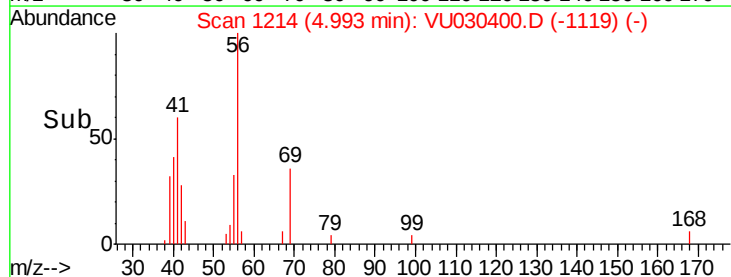
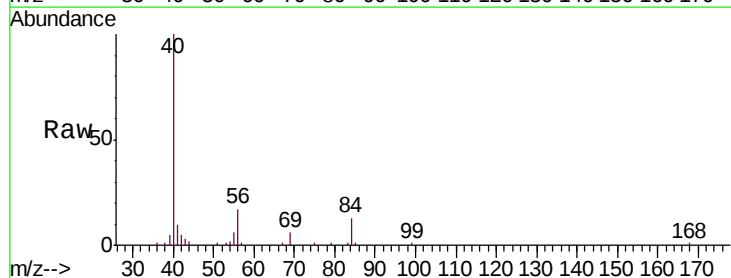
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C09E1

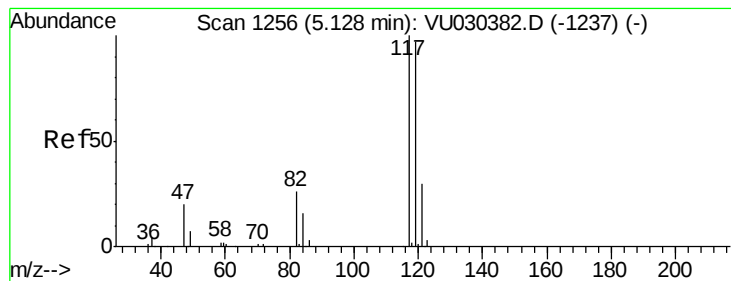
Tgt Ion: 62 Resp: 93643  
 Ion Ratio Lower Upper  
 62 100  
 98 0.0 7.2 10.8#



#29  
 Cyclohexane  
 Concen: 1.237 ug/L  
 RT: 4.99 min Scan# 1214  
 Delta R.T. 0.01 min  
 Lab File: VU030400.D  
 Acq: 25 Mar 2019 05:36

Tgt Ion: 56 Resp: 8443  
 Ion Ratio Lower Upper  
 56 100  
 69 31.5 22.9 34.3  
 84 83.8 58.9 88.3





#31

Carbon tetrachloride

Concen: 8.614 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU030400.D

Acq: 25 Mar 2019 05:36

Instrument :

MSVOA\_U

ClientSampleId :

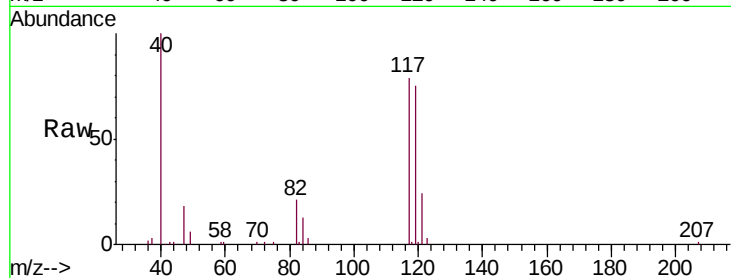
C09E1

Tgt Ion:117 Resp: 40317

Ion Ratio Lower Upper

117 100

119 96.6 75.4 113.2



Abundance Ion 117.00 (116.70 to 117.70): V

20000 Ion 119.00 (118.70 to 119.70): V

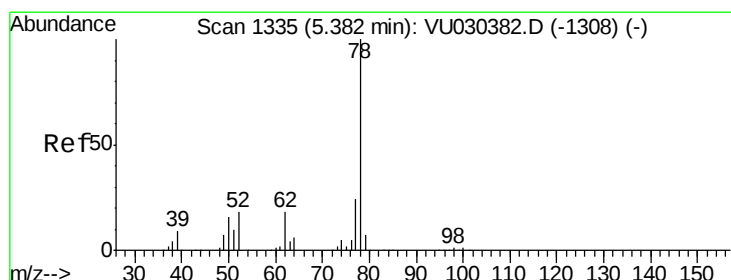
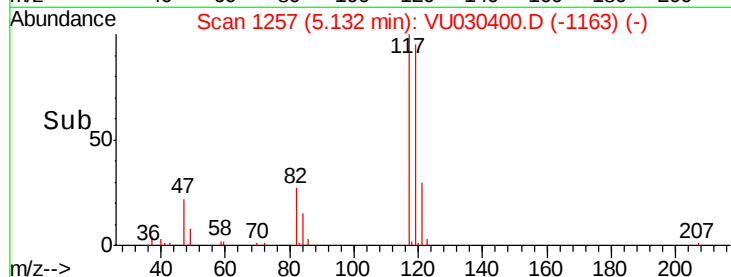
15000

10000

5000

0

Time-->



#33

Benzene

Concen: 726.848 ug/L

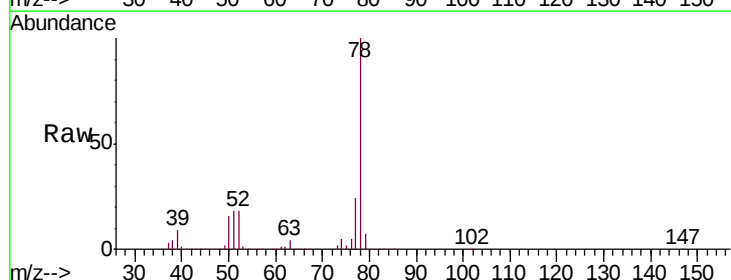
RT: 5.39 min Scan# 1337

Delta R.T. 0.01 min

Lab File: VU030400.D

Acq: 25 Mar 2019 05:36

Tgt Ion: 78 Resp:11157893



Abundance Ion 78.00 (77.70 to 78.70): VU0

6000000

5000000

4000000

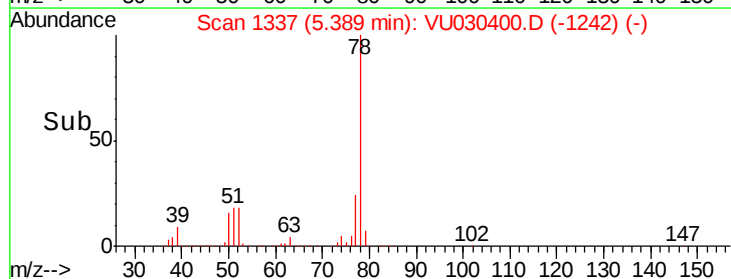
3000000

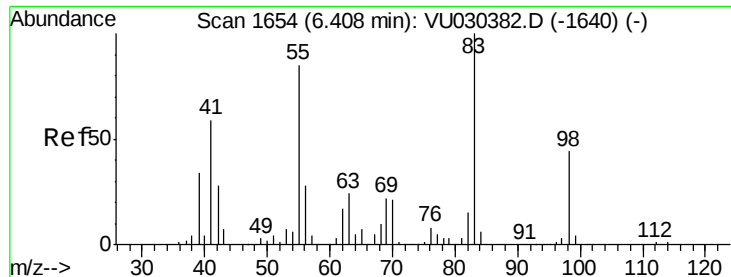
2000000

1000000

0

Time-->

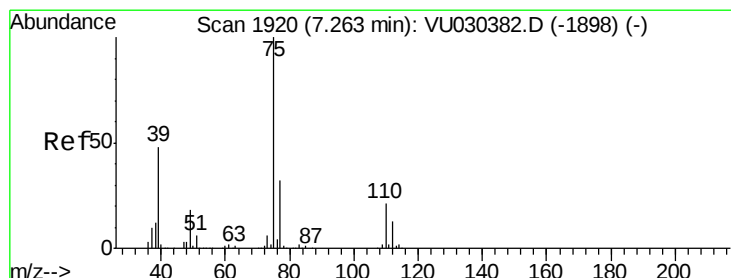
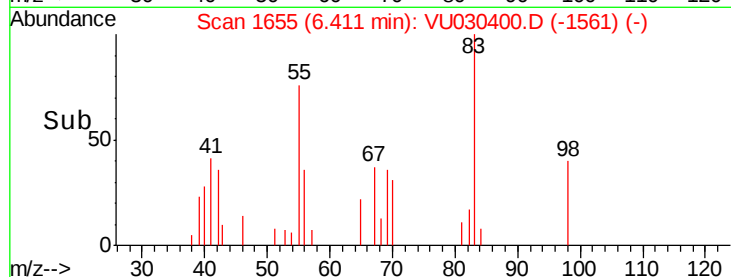
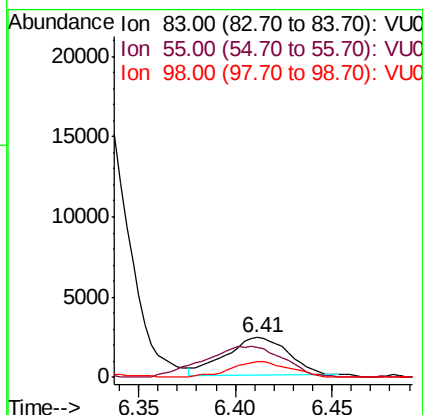
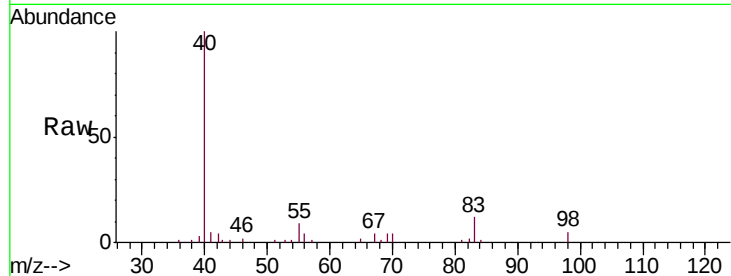




#35  
Methylcyclohexane  
Concen: 0.872 ug/L  
RT: 6.41 min Scan# 1655  
Delta R.T. 0.00 min  
Lab File: VU030400.D  
Acq: 25 Mar 2019 05:36

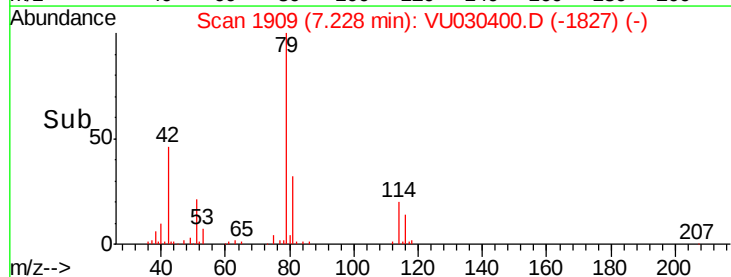
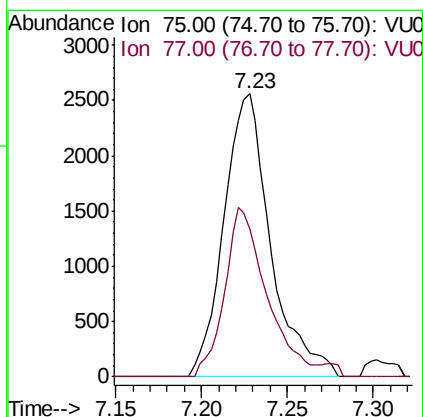
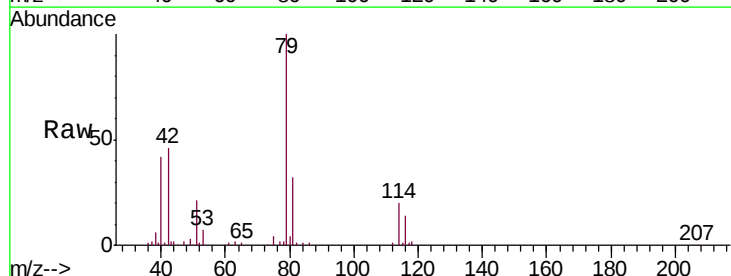
Instrument :  
MSVOA\_U  
ClientSampled :  
C09E1

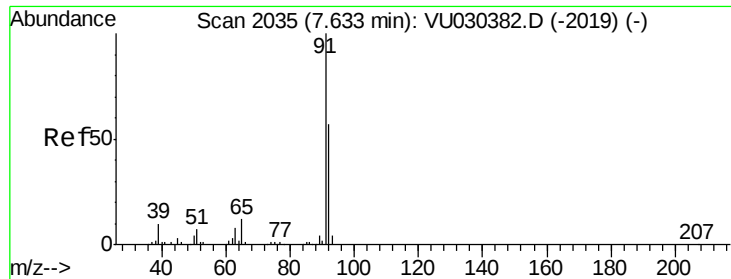
Tgt Ion: 83 Resp: 5415  
Ion Ratio Lower Upper  
83 100  
55 55.8 71.4 107.0#  
98 38.9 36.0 54.0



#39  
cis-1,3-Dichloropropene  
Concen: 0.775 ug/L  
RT: 7.23 min Scan# 1909  
Delta R.T. -0.04 min  
Lab File: VU030400.D  
Acq: 25 Mar 2019 05:36

Tgt Ion: 75 Resp: 4854  
Ion Ratio Lower Upper  
75 100  
77 52.0 21.8 40.6#





#42

Toluene

Concen: 1.053 ug/L

RT: 7.64 min Scan# 2037

Delta R.T. 0.01 min

Lab File: VU030400.D

Acq: 25 Mar 2019 05:36

Instrument :

MSVOA\_U

ClientSampleId :

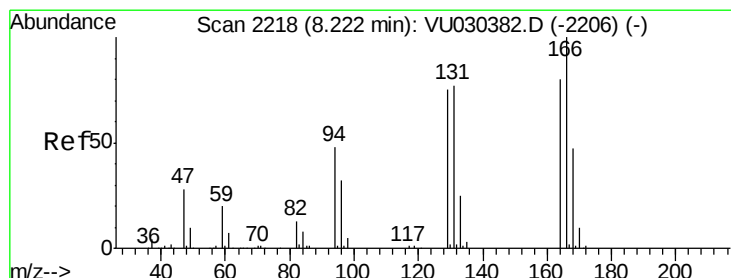
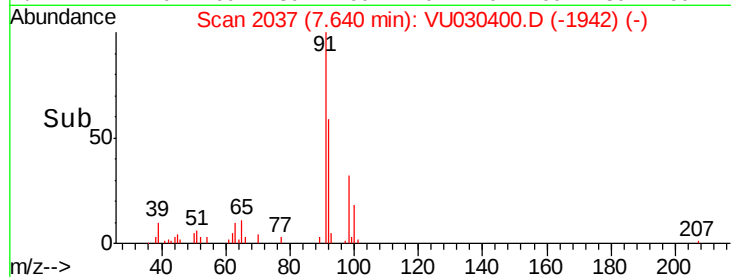
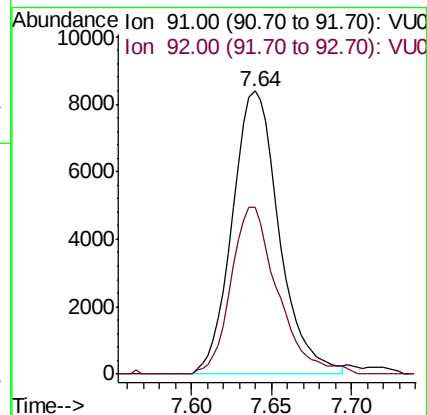
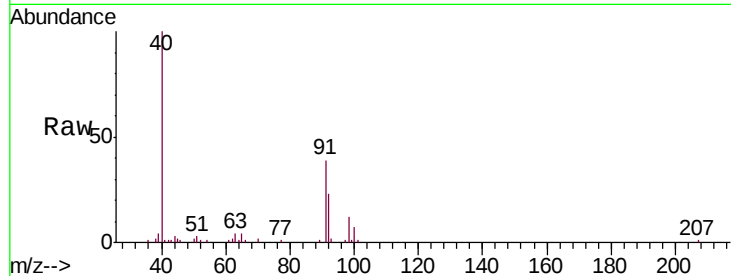
C09E1

Tgt Ion: 91 Resp: 16781

Ion Ratio Lower Upper

91 100

92 58.9 39.7 73.7



#46

Tetrachloroethene

Concen: 0.890 ug/L

RT: 8.23 min Scan# 2221

Delta R.T. 0.01 min

Lab File: VU030400.D

Acq: 25 Mar 2019 05:36

Tgt Ion: 164 Resp: 2346

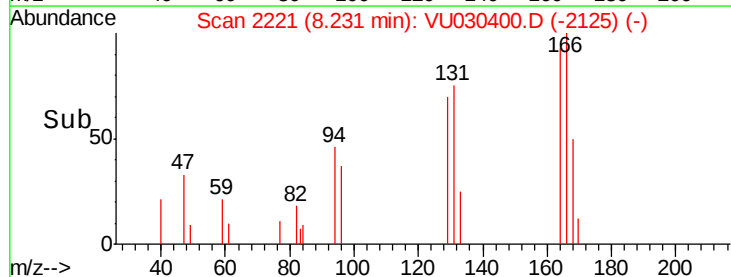
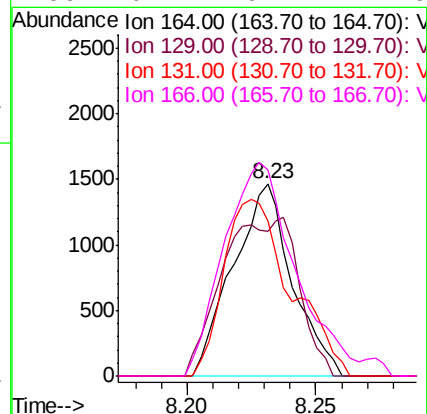
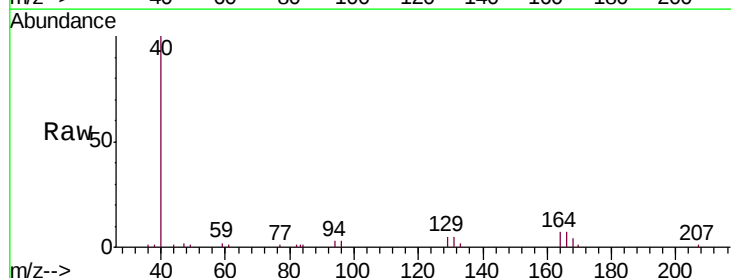
Ion Ratio Lower Upper

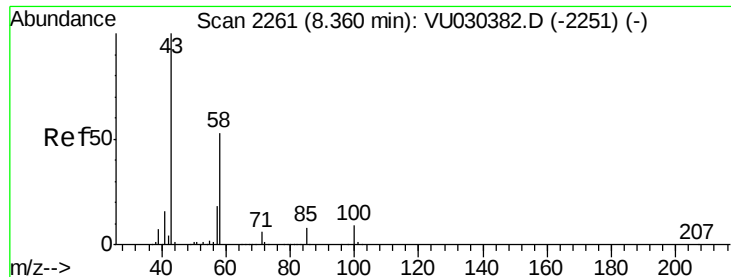
164 100

129 75.2 68.1 126.5

131 80.8 67.7 125.7

166 107.2 92.4 171.6

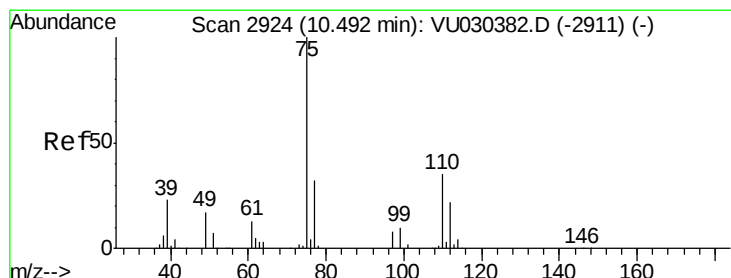
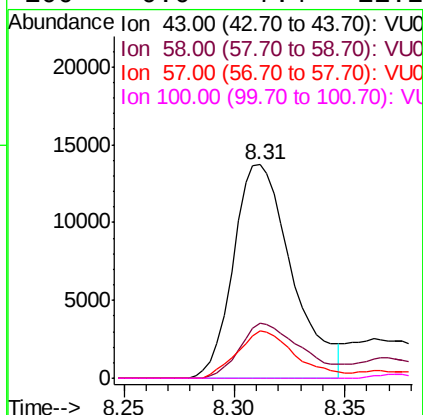
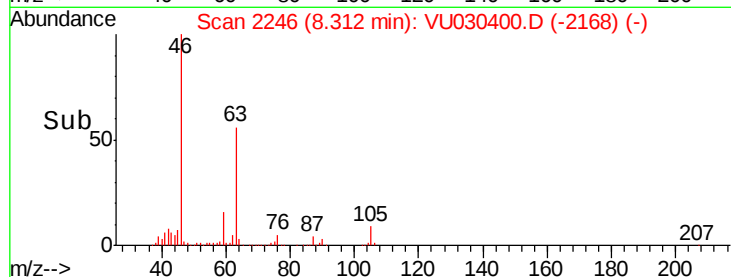
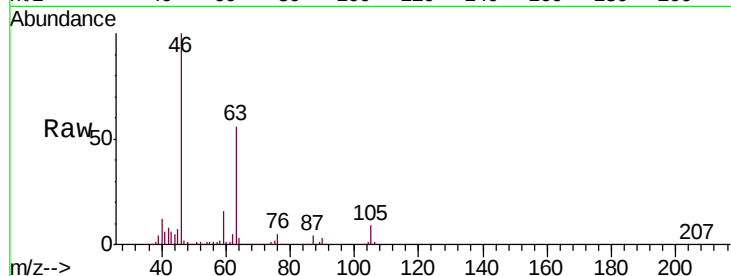




#48  
 2-Hexanone  
 Concen: 4.221 ug/L  
 RT: 8.31 min Scan# 2246  
 Delta R.T. -0.05 min  
 Lab File: VU030400.D  
 Acq: 25 Mar 2019 05:36

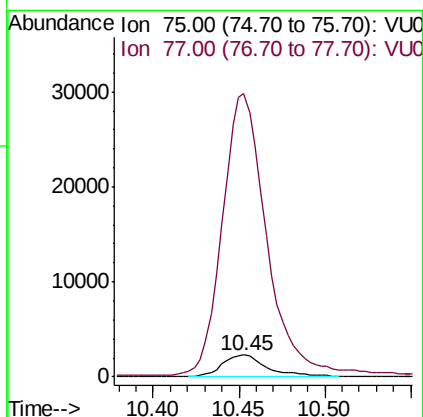
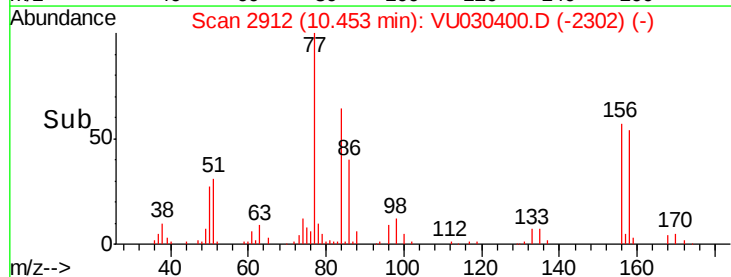
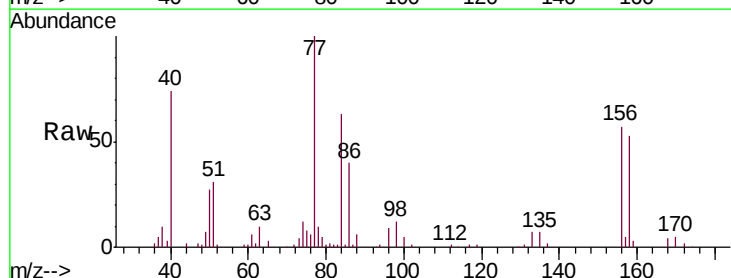
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C09E1

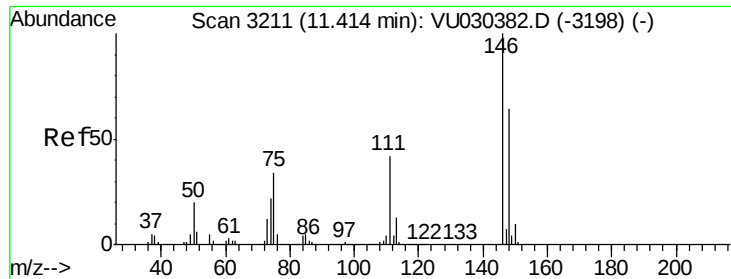
Tgt Ion: 43 Resp: 25317  
 Ion Ratio Lower Upper  
 43 100  
 58 26.5 42.5 63.7#  
 57 22.3 15.0 22.6  
 100 0.0 7.4 11.2#



#59  
 1,2,3-Trichloropropane  
 Concen: 0.810 ug/L  
 RT: 10.45 min Scan# 2912  
 Delta R.T. -0.04 min  
 Lab File: VU030400.D  
 Acq: 25 Mar 2019 05:36

Tgt Ion: 75 Resp: 4296  
 Ion Ratio Lower Upper  
 75 100  
 77 1233.3 25.4 38.2#

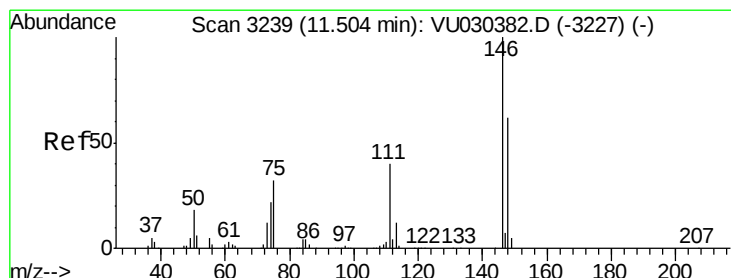
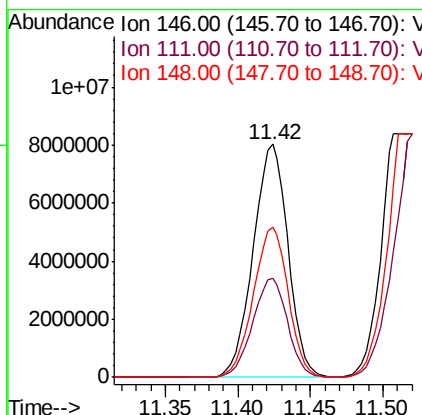
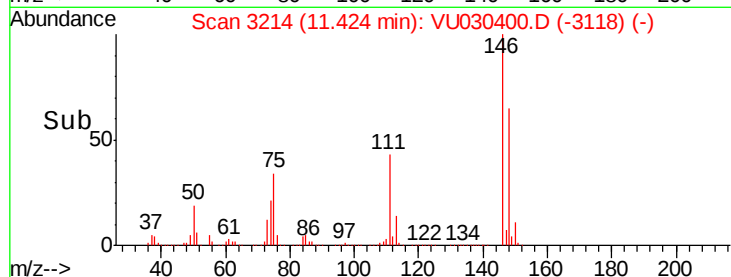
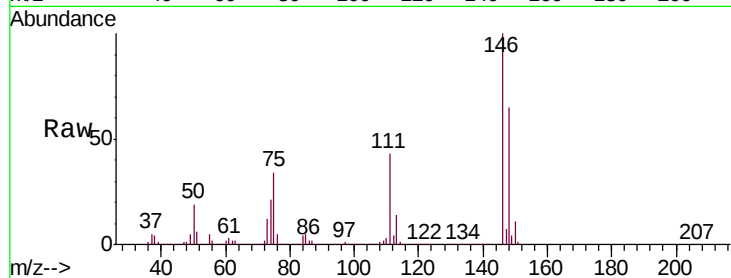




#62  
 1,3-Dichlorobenzene  
 Concen: 1684.048 ug/L  
 RT: 11.42 min Scan# 3214  
 Delta R.T. 0.01 min  
 Lab File: VU030400.D  
 Acq: 25 Mar 2019 05:36

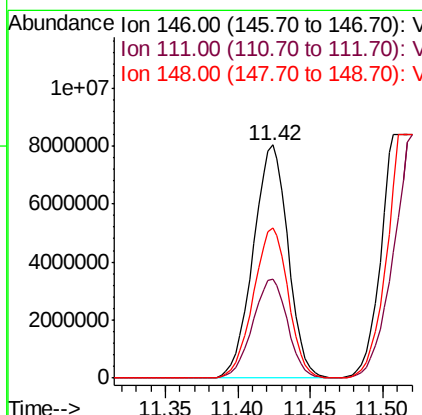
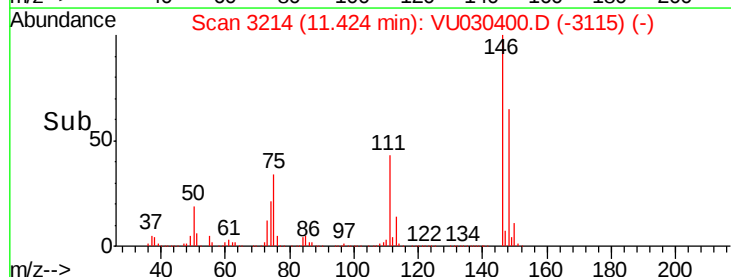
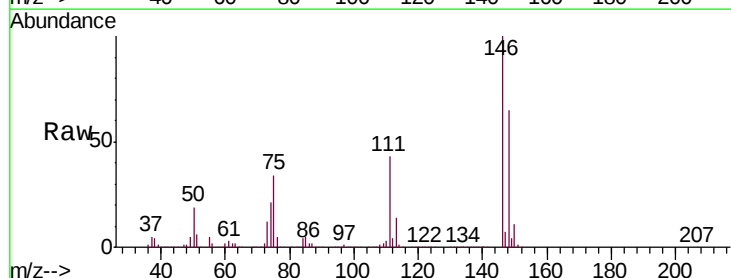
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 C09E1

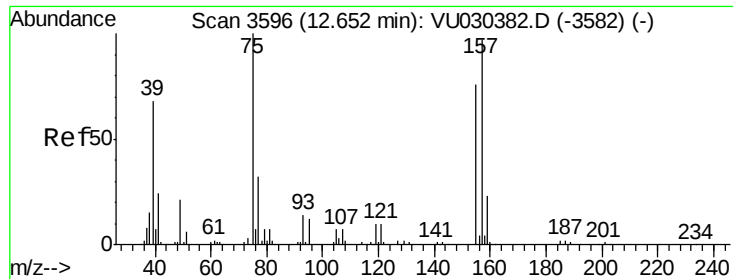
Tgt Ion:146 Resp:13440104  
 Ion Ratio Lower Upper  
 146 100  
 111 42.7 29.2 54.2  
 148 64.6 44.4 82.4



#63  
 1,4-Dichlorobenzene  
 Concen: 1635.833 ug/L  
 RT: 11.42 min Scan# 3214  
 Delta R.T. -0.08 min  
 Lab File: VU030400.D  
 Acq: 25 Mar 2019 05:36

Tgt Ion:146 Resp:13440104  
 Ion Ratio Lower Upper  
 146 100  
 111 42.7 28.7 53.3  
 148 64.6 44.3 82.3

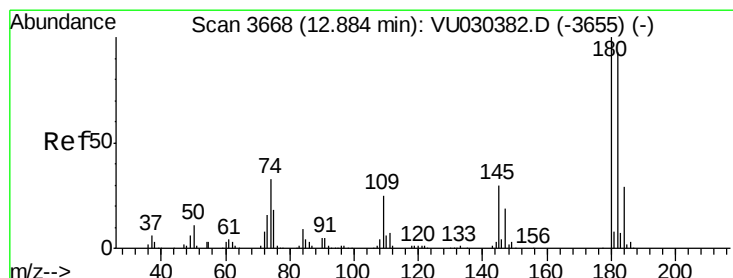
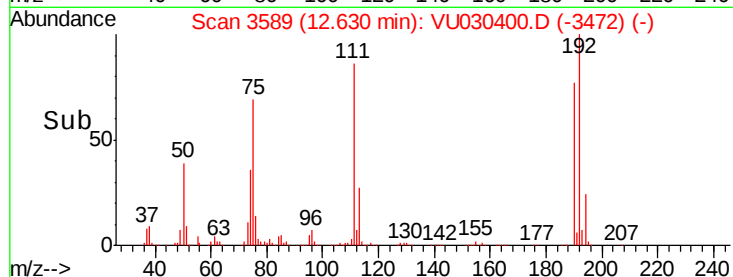
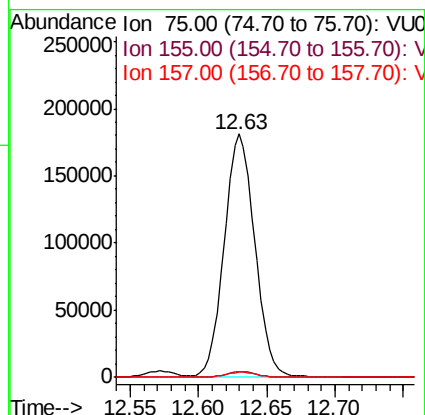
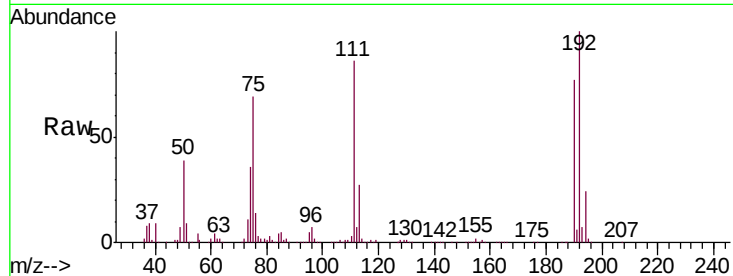




#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 156.534 ug/L  
 RT: 12.63 min Scan# 3589  
 Delta R.T. -0.02 min  
 Lab File: VU030400.D  
 Acq: 25 Mar 2019 05:36

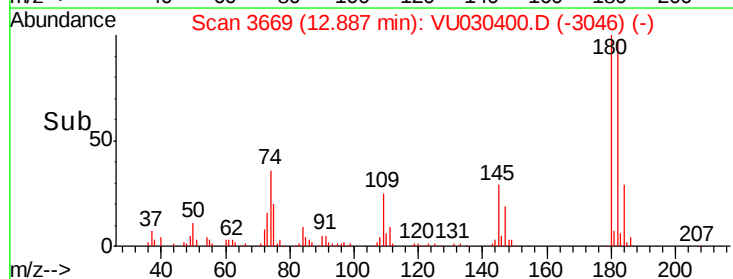
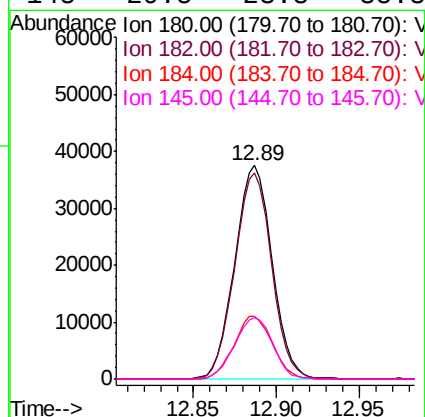
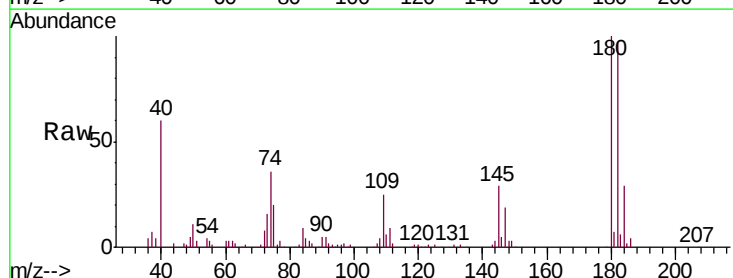
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C09E1

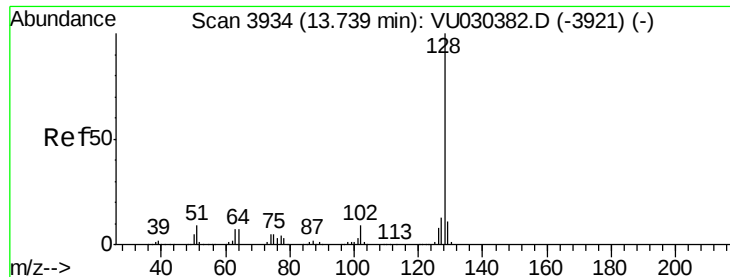
Tgt Ion: 75 Resp: 281272  
 Ion Ratio Lower Upper  
 75 100  
 155 2.5 61.8 92.6#  
 157 2.1 80.2 120.4#



#67  
 1,3,5-Trichlorobenzene  
 Concen: 9.859 ug/L  
 RT: 12.89 min Scan# 3669  
 Delta R.T. 0.00 min  
 Lab File: VU030400.D  
 Acq: 25 Mar 2019 05:36

Tgt Ion: 180 Resp: 58905  
 Ion Ratio Lower Upper  
 180 100  
 182 95.2 75.9 113.9  
 184 29.9 24.1 36.1  
 145 29.5 23.8 35.8





#69

Naphthalene

Concen: 1.706 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

Lab File: VU030400.D

Acq: 25 Mar 2019 05:36

Instrument :

MSVOA\_U

ClientSampled :

C09E1

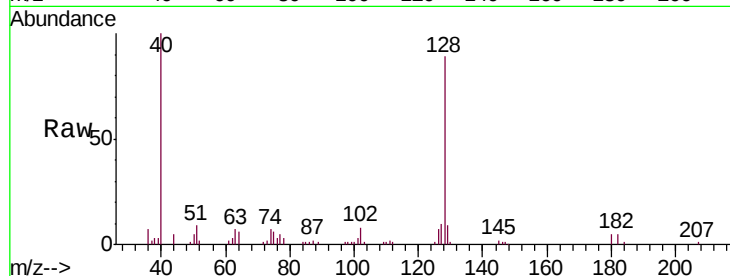
Tgt Ion:128 Resp: 31493

Ion Ratio Lower Upper

128 100

127 12.9 10.4 15.6

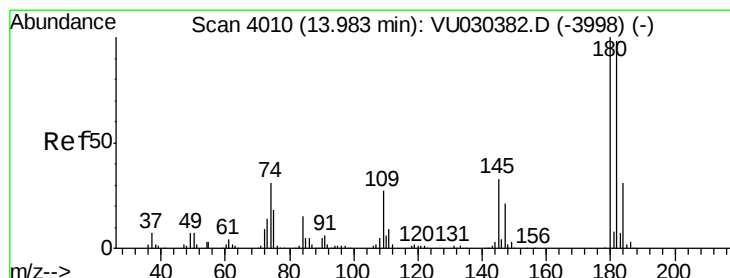
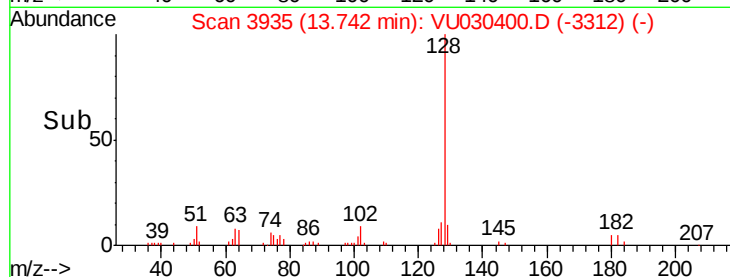
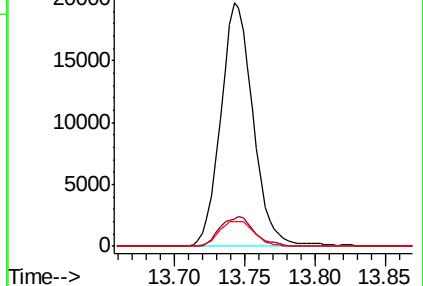
129 11.3 8.4 12.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 1676.131 ug/L

RT: 13.99 min Scan# 4013

Delta R.T. 0.01 min

Lab File: VU030400.D

Acq: 25 Mar 2019 05:36

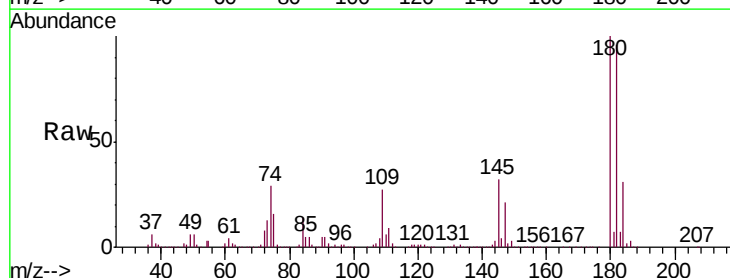
Tgt Ion:180 Resp: 9188041

Ion Ratio Lower Upper

180 100

182 95.9 77.4 116.2

145 32.1 25.9 38.9



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

