

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101719\  
 Data File : VU035206.D  
 Acq On : 17 Oct 2019 11:49  
 Operator : JC/SP  
 Sample : VIBLK20  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VIBLK20

Manual Integrations  
 APPROVED

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 10/18/2019 4:10:46 PM

Quant Time: Oct 18 03:41:33 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR101719WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Oct 18 02:50:54 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 418627   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 392359   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 157253   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 115000   | 4.50     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 90.00% |
| 7) Chloroethane-d5             | 1.93   | 69    | 104876   | 4.49     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 89.80% |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 153720   | 3.26     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 65.20% |
| 20) 2-Butanone-d5              | 4.72   | 46    | 334783   | 45.64    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 91.28% |
| 24) Chloroform-d               | 5.11   | 84    | 207011   | 4.44     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 88.80% |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 118104   | 4.57     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.40% |
| 32) Benzene-d6                 | 5.77   | 84    | 426507   | 4.75     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.00% |
| 36) 1,2-Dichloropropane-d6     | 6.74   | 67    | 136411   | 4.79     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 95.80% |
| 41) Toluene-d8                 | 7.93   | 98    | 404065   | 4.71     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.20% |
| 43) trans-1,3-Dichloropropene- | 8.22   | 79    | 63733    | 4.61     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 92.20% |
| 46) 2-Hexanone-d5              | 8.69   | 63    | 277329   | 45.48    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 90.96% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.79  | 84    | 111988   | 4.41     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 88.20% |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 133578   | 4.66     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 93.20% |

## Target Compounds

|                                |       |     |       |              | Ovalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 62) 1,3-Dichlorobenzene        | 11.77 | 146 | 6400m | 0.119 ug/L   |        |
| 63) 1,4-Dichlorobenzene        | 11.87 | 146 | 7249  | 0.137 ug/L   | 90     |
| 65) 1,2-Dichlorobenzene        | 12.25 | 146 | 6782  | 0.135 ug/L # | 85     |
| 66) 1,2-Dibromo-3-chloropropan | 13.03 | 75  | 676   | 0.190 ug/L # | 60     |
| 67) 1,3,5-Trichlorobenzene     | 13.25 | 180 | 6153  | 0.185 ug/L   | 94     |
| 68) 1,2,4-trichlorobenzene     | 13.87 | 180 | 7144  | 0.323 ug/L   | 98     |
| 69) Naphthalene                | 14.11 | 128 | 12890 | 0.424 ug/L   | 98     |
| 70) 1,2,3-Trichlorobenzene     | 14.36 | 180 | 8177  | 0.395 ug/L   | 97     |

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

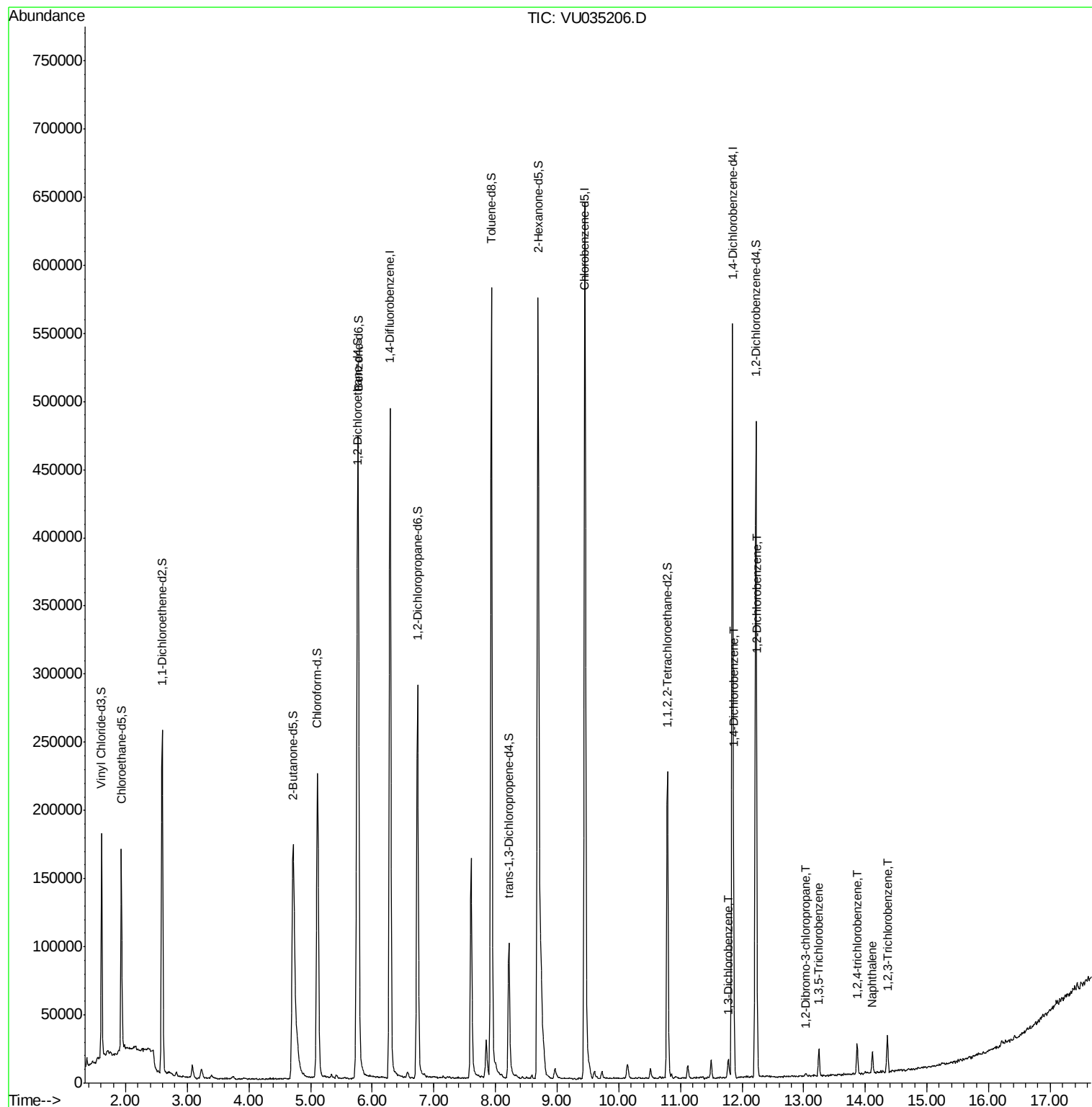
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU101719\  
Data File : VU035206.D  
Acq On : 17 Oct 2019 11:49  
Operator : JC/SP  
Sample : VIBLK20  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 8 Sample Multiplier: 1

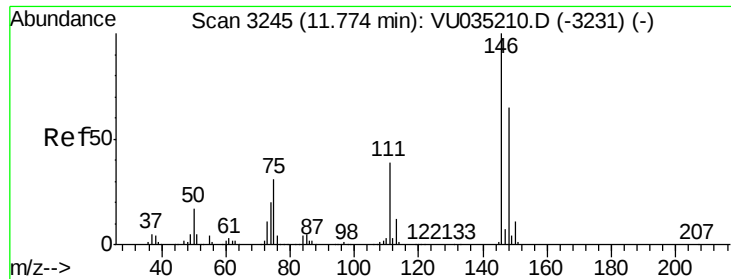
Instrument :  
MSVOA\_U  
ClientSampleId :  
VIBLK20

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Quant Time: Oct 18 03:41:33 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR101719WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Oct 18 02:50:54 2019  
Response via : Initial Calibration





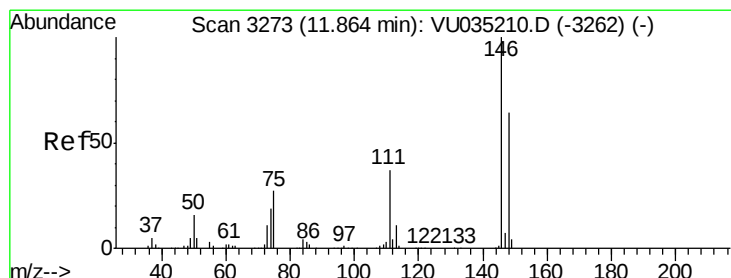
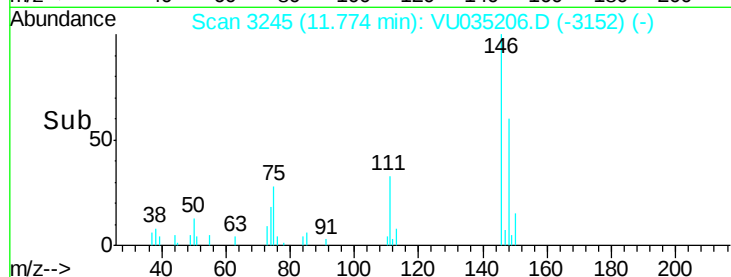
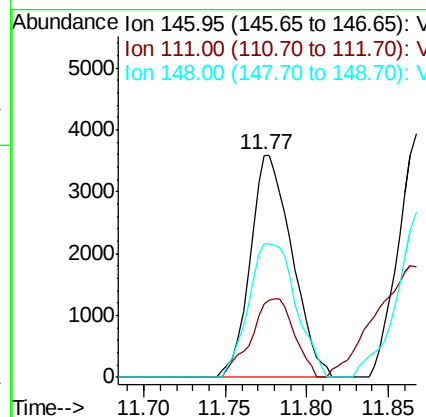
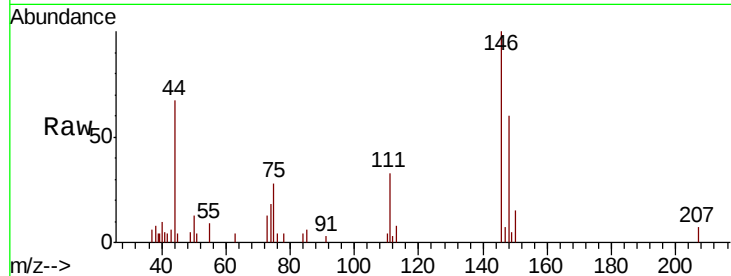
#62  
 1,3-Dichlorobenzene  
 Concen: 0.119 ug/L m  
 RT: 11.77 min Scan# 3245  
 Delta R.T. -0.00 min  
 Lab File: VU035206.D  
 Acq: 17 Oct 2019 11:49

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 VIBLK20

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 33.1  | 27.8  | 51.6  |
| 148     | 60.1  | 45.6  | 84.8  |

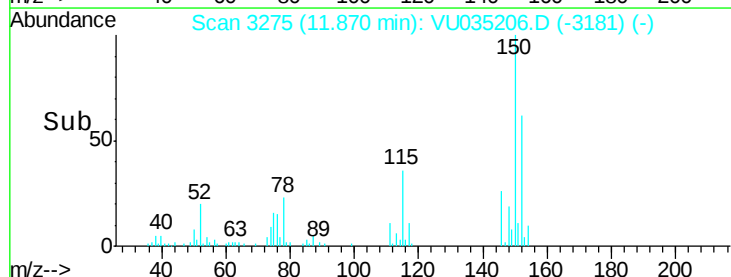
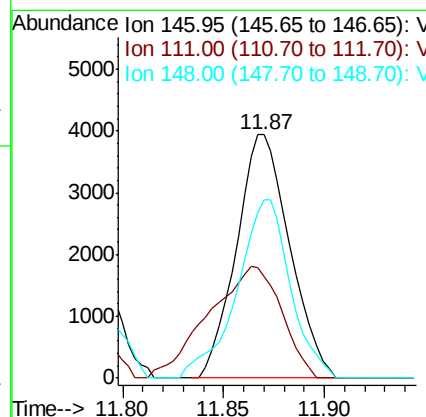
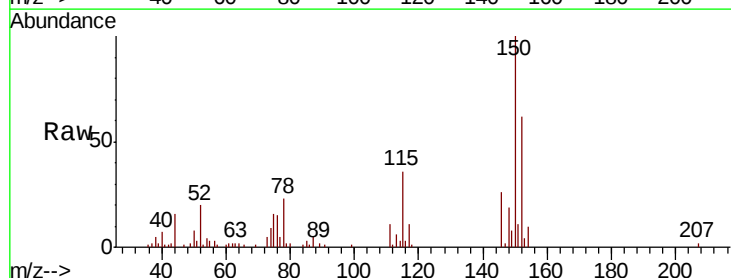
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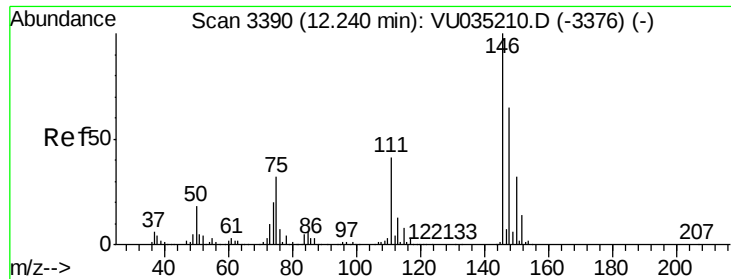
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#63  
 1,4-Dichlorobenzene  
 Concen: 0.137 ug/L  
 RT: 11.87 min Scan# 3275  
 Delta R.T. 0.00 min  
 Lab File: VU035206.D  
 Acq: 17 Oct 2019 11:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.6  | 26.4  | 49.0  |
| 148     | 73.3  | 44.7  | 83.1  |





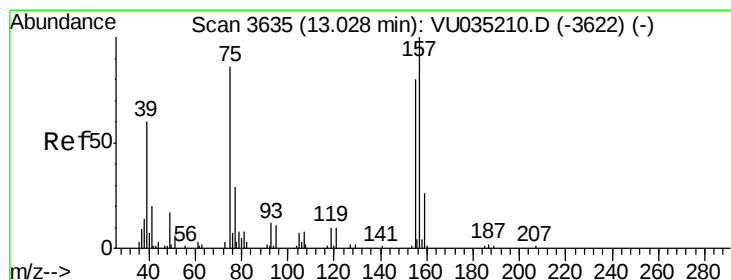
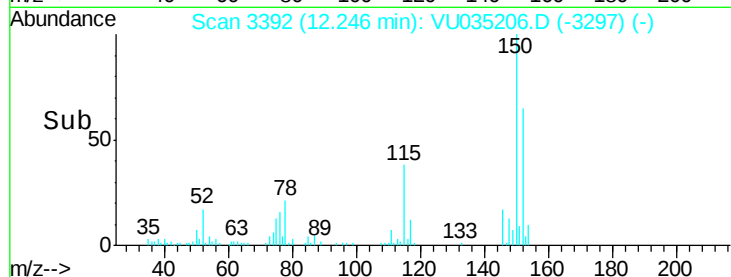
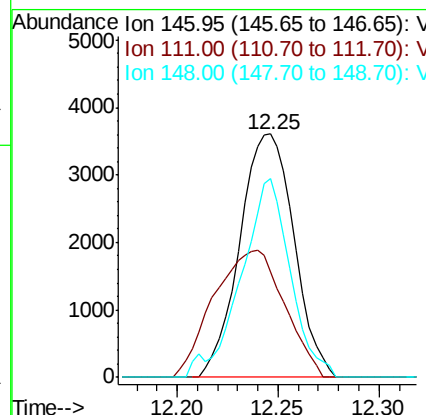
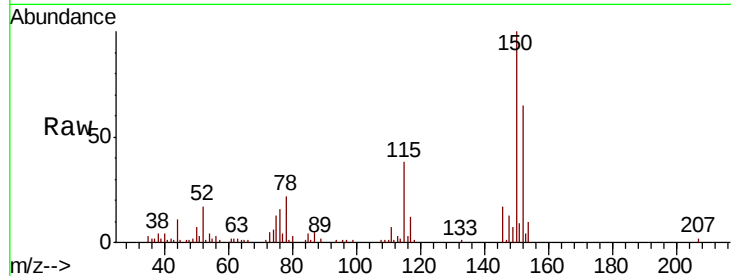
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 1,2-Dichlorobenzene  
 Concen: 0.135 ug/L  
 RT: 12.25 min Scan# 3392  
 Delta R.T. 0.01 min  
 Lab File: VU035206.D  
 Acq: 17 Oct 2019 11:49

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VIBLK20

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.4  | 33.0  | 49.6  |
| 148     | 81.7  | 51.0  | 76.4# |

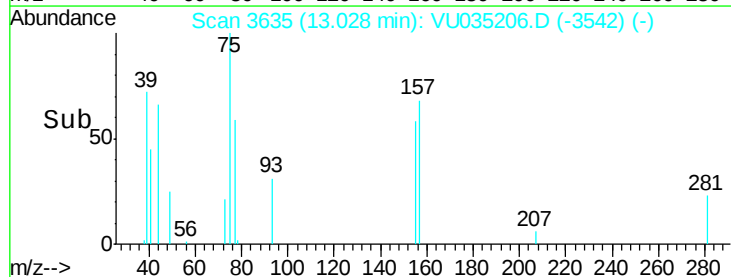
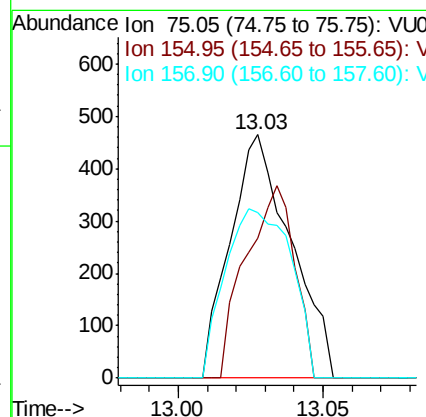
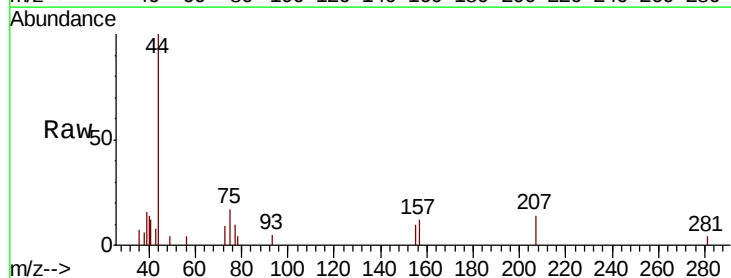
Manual Integrations  
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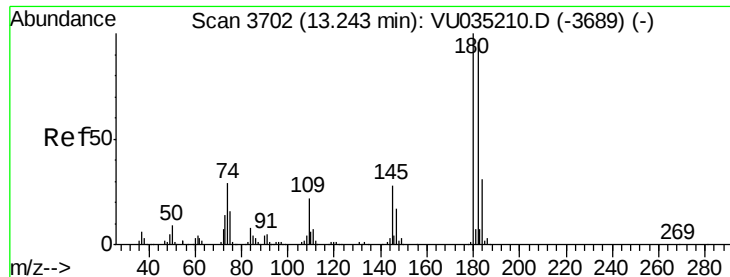
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#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 0.190 ug/L  
 RT: 13.03 min Scan# 3635  
 Delta R.T. -0.00 min  
 Lab File: VU035206.D  
 Acq: 17 Oct 2019 11:49

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 155     | 57.6  | 70.0  | 105.0# |
| 157     | 68.0  | 94.7  | 142.1# |





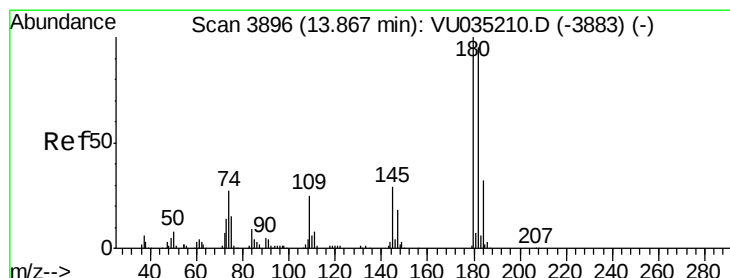
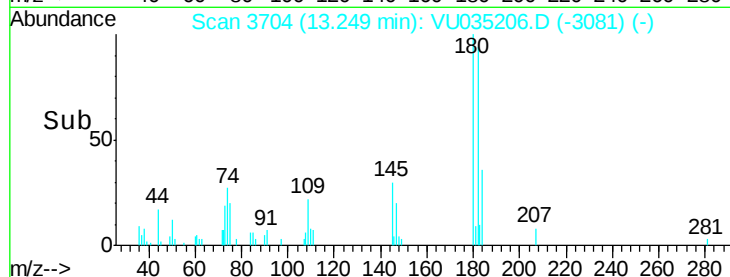
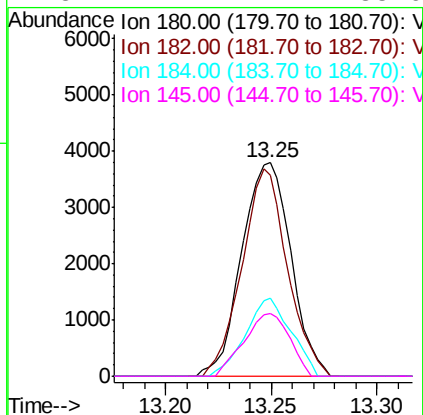
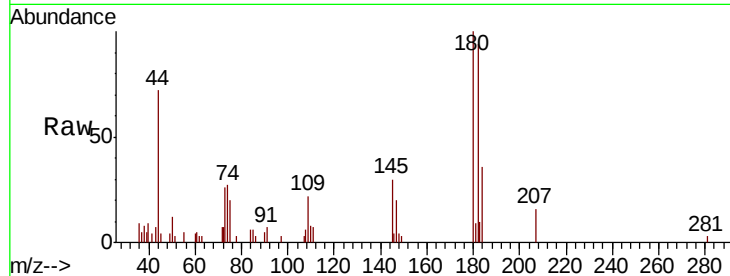
#67  
 1,3,5-Trichlorobenzene  
 Concen: 0.185 ug/L  
 RT: 13.25 min Scan# 3704  
 Delta R.T. 0.00 min  
 Lab File: VU035206.D  
 Acq: 17 Oct 2019 11:49

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VIBLK20

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 180   | Resp: | 6153  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 89.9  | 77.4  | 116.2 |
| 184      | 33.7  | 23.9  | 35.9  |
| 145      | 27.2  | 22.4  | 33.6  |

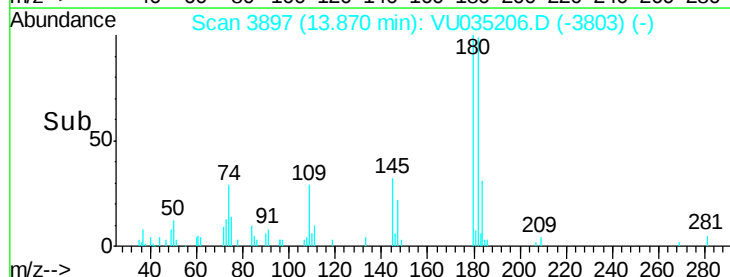
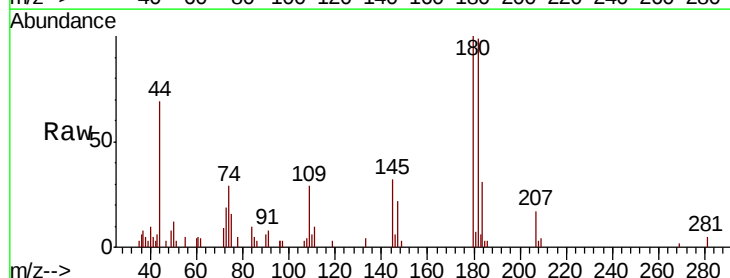
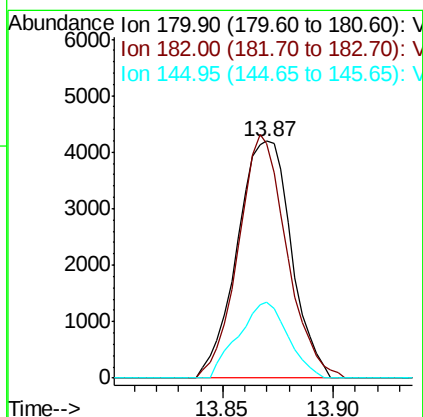
Manual Integrations  
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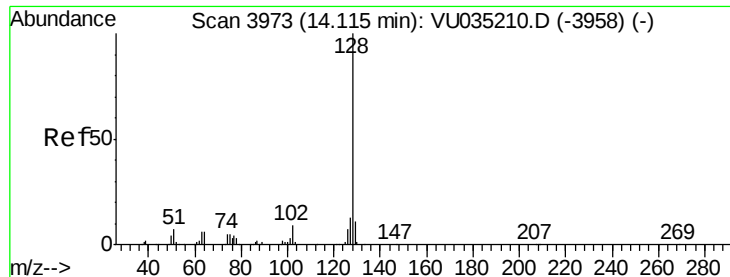
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#68  
 1,2,4-trichlorobenzene  
 Concen: 0.323 ug/L  
 RT: 13.87 min Scan# 3897  
 Delta R.T. 0.00 min  
 Lab File: VU035206.D  
 Acq: 17 Oct 2019 11:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 7144  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 92.0  | 75.9  | 113.9 |
| 145      | 29.6  | 23.4  | 35.2  |





#69

Naphthalene

Concen: 0.424 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. -0.00 min

Lab File: VU035206.D

Acq: 17 Oct 2019 11:49

Instrument :

MSVOA\_U

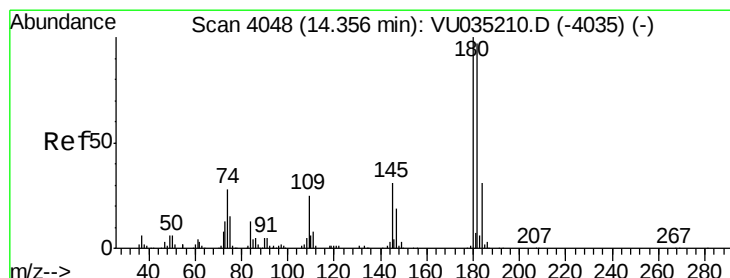
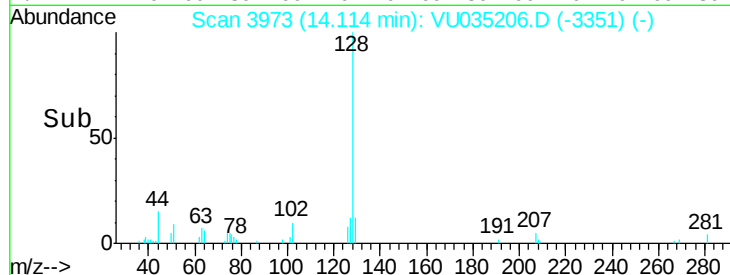
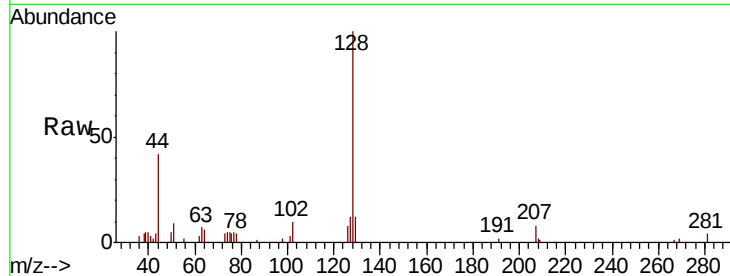
ClientSampled :

VIBLK20

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 12890 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 11.4  | 8.6   | 13.0  |
| 127       | 12.2  | 10.7  | 16.1  |

Manual Integrations  
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#70

1,2,3-Trichlorobenzene

Concen: 0.395 ug/L

RT: 14.36 min Scan# 4049

Delta R.T. 0.00 min

Lab File: VU035206.D

Acq: 17 Oct 2019 11:49

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 8177  |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 99.3  | 76.0  | 114.0 |
| 145       | 30.5  | 24.6  | 37.0  |

