

Data File : VU030246.D  
Acq On : 21 Mar 2019 00:21  
Operator : JC/SP  
Sample : K2017-03  
Misc : 6.66g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BF0D6

Quant Time: Mar 22 01:35:05 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM031919WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Mar 22 01:27:23 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 565976   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 566126   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 294690   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 125861   | 32.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 65.78%  |
| 7) Chloroethane-d5             | 1.64    | 69    | 60209    | 19.68    | ug/L | -0.04   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 39.36%# |
| 11) 1,1-Dichloroethene-d2      | 2.22    | 63    | 187544   | 26.86    | ug/L | -0.05   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 53.72%# |
| 21) 2-Butanone-d5              | 4.20    | 46    | 255551   | 90.01    | ug/L | 0.02    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 90.01%  |
| 24) Chloroform-d               | 4.64    | 84    | 278489   | 39.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 79.30%  |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 170918   | 42.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.34%  |
| 32) Benzene-d6                 | 5.33    | 84    | 599506   | 40.19    | ug/L | -0.01   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 80.38%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 191317   | 41.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 82.90%  |
| 41) Toluene-d8                 | 7.56    | 98    | 544082   | 38.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 77.58%# |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 85743    | 38.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 76.30%  |
| 47) 2-Hexanone-d5              | 8.32    | 63    | 228637   | 95.51    | ug/L | 0.02    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 95.51%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 331482   | 46.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 93.64%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 253002   | 42.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 85.52%  |

#### Target Compounds

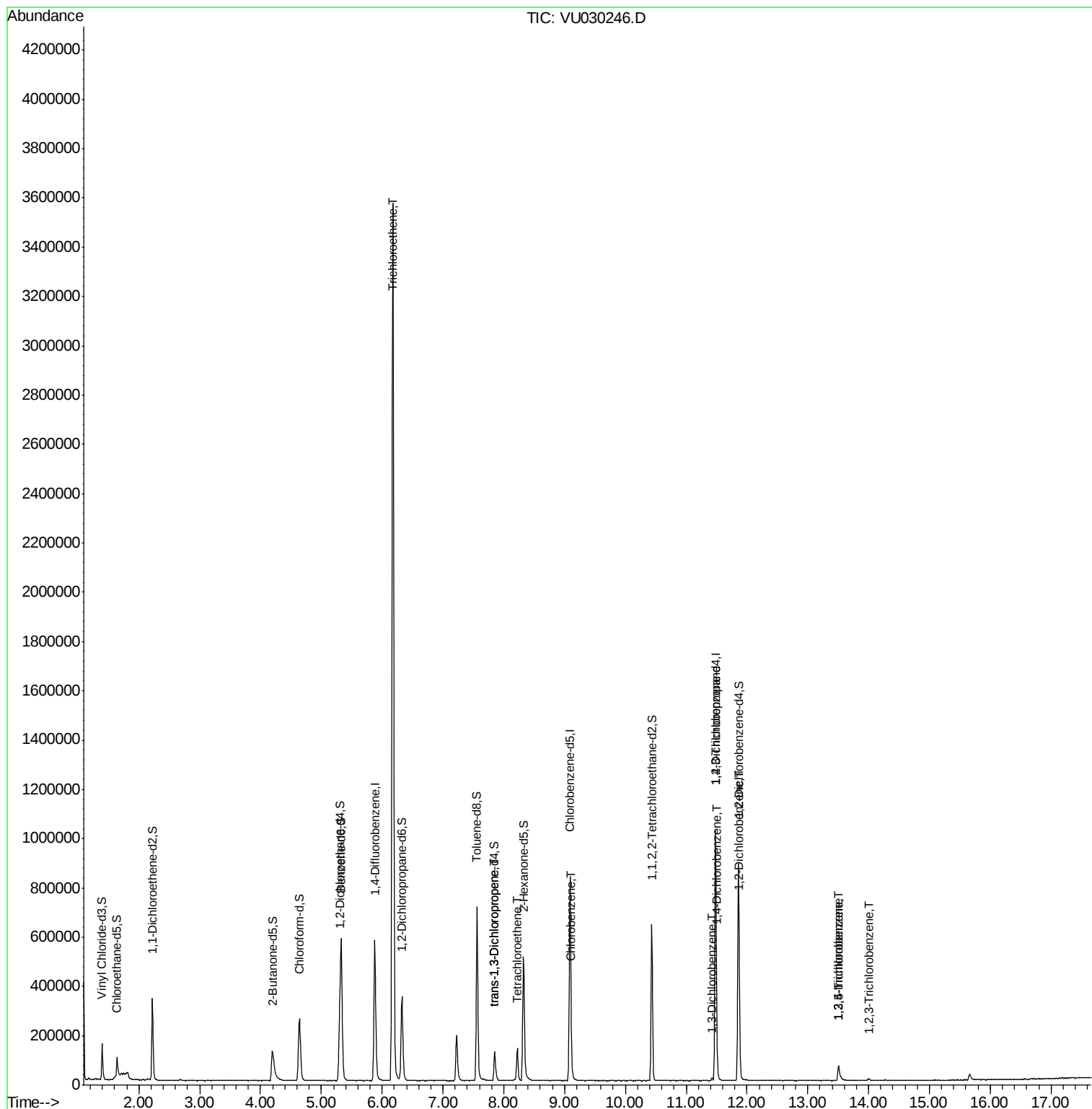
|                               |       |     |         |              | Qvalue |
|-------------------------------|-------|-----|---------|--------------|--------|
| 34) Trichloroethene           | 6.18  | 95  | 1303930 | 302.883 ug/L | 99     |
| 44) trans-1,3-Dichloropropene | 7.85  | 75  | 3430    | 0.591 ug/L # | 67     |
| 46) Tetrachloroethene         | 8.22  | 164 | 34546   | 9.498 ug/L   | 94     |
| 51) Chlorobenzene             | 9.12  | 112 | 16270   | 1.383 ug/L   | 94     |
| 59) 1,2,3-Trichloropropane    | 11.48 | 75  | 38746   | 6.853 ug/L   | 90     |
| 62) 1,3-Dichlorobenzene       | 11.42 | 146 | 5798    | 0.617 ug/L   | 94     |
| 63) 1,4-Dichlorobenzene       | 11.51 | 146 | 39772   | 4.078 ug/L   | 99     |
| 65) 1,2-Dichlorobenzene       | 11.88 | 146 | 54329   | 5.656 ug/L   | 97     |
| 67) 1,3,5-Trichlorobenzene    | 13.51 | 180 | 31816   | 4.330 ug/L   | 96     |
| 68) 1,2,4-trichlorobenzene    | 13.51 | 180 | 31816   | 4.896 ug/L   | 96     |
| 70) 1,2,3-Trichlorobenzene    | 14.00 | 180 | 5193    | 0.766 ug/L # | 92     |

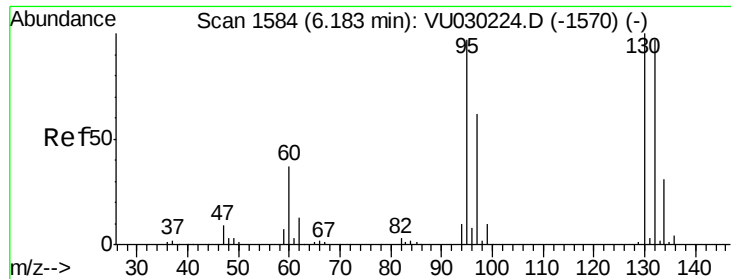
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Fri Mar 22 01:27:23 2019  
Response via : Initial Calibration





#34

Trichloroethene

Concen: 302.883 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.01 min

Lab File: VU030246.D

Acq: 21 Mar 2019 00:21

Instrument :

MSVOA\_U

ClientSampleId :

BF0D6

Tgt Ion: 95 Resp: 1303930

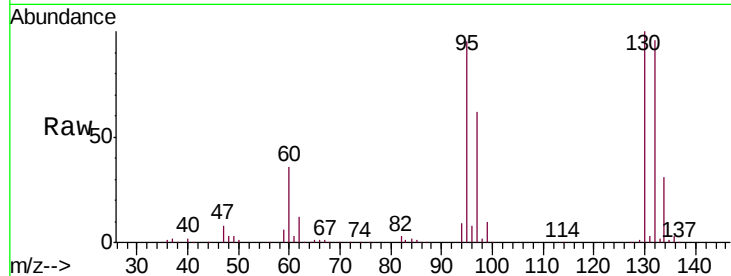
Ion Ratio Lower Upper

95 100

97 64.7 46.2 85.8

132 101.1 69.3 128.7

130 105.0 73.6 136.6

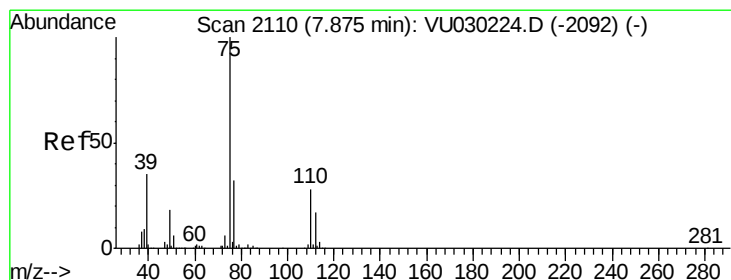
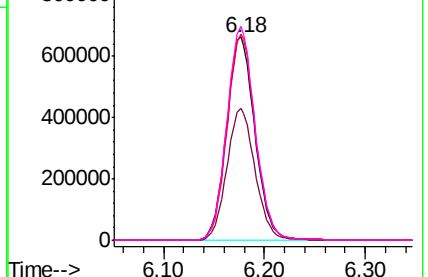
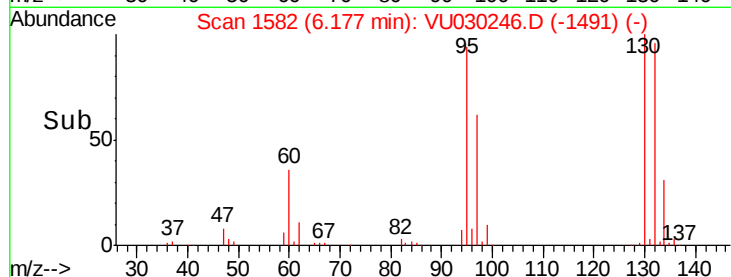


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#44

trans-1,3-Dichloropropene

Concen: 0.591 ug/L

RT: 7.85 min Scan# 2102

Delta R.T. -0.03 min

Lab File: VU030246.D

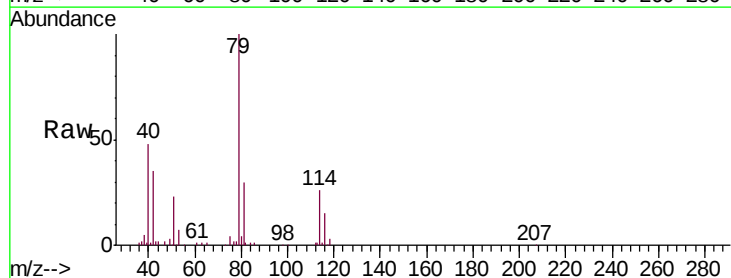
Acq: 21 Mar 2019 00:21

Tgt Ion: 75 Resp: 3430

Ion Ratio Lower Upper

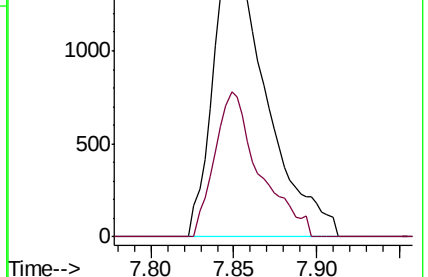
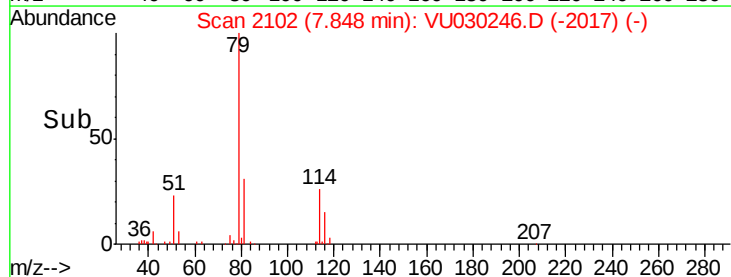
75 100

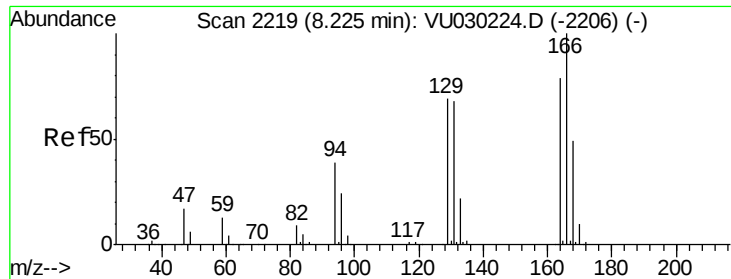
77 51.1 22.7 42.1#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

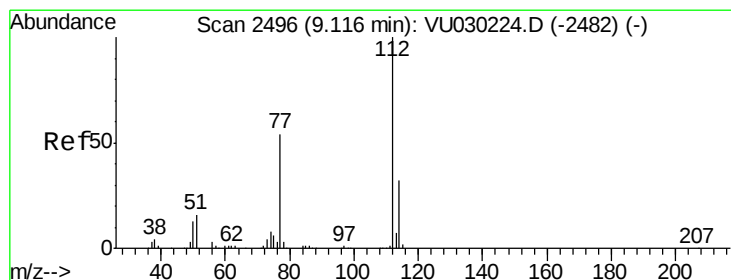
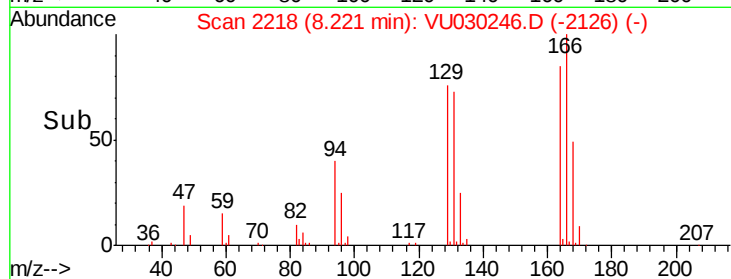
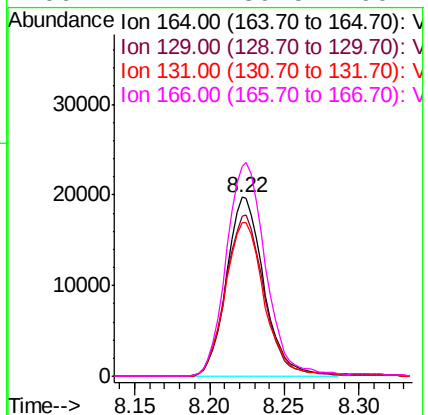
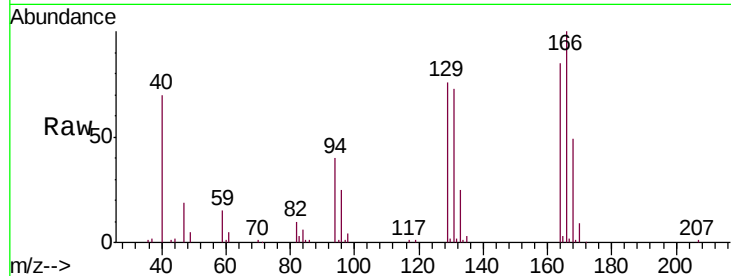




#46  
Tetrachloroethene  
Concen: 9.498 ug/L  
RT: 8.22 min Scan# 2218  
Delta R.T. -0.00 min  
Lab File: VU030246.D  
Acq: 21 Mar 2019 00:21

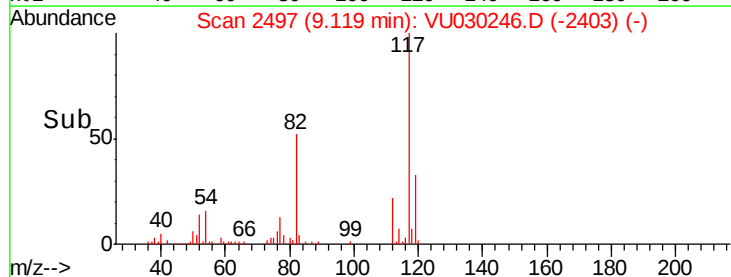
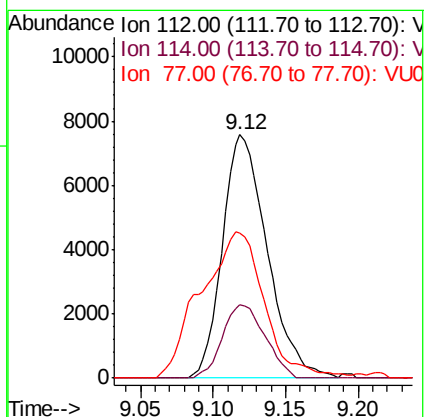
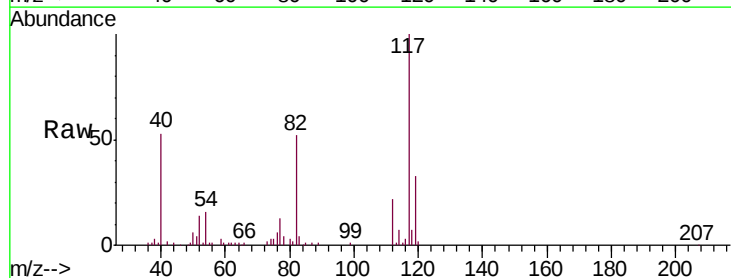
Instrument :  
MSVOA\_U  
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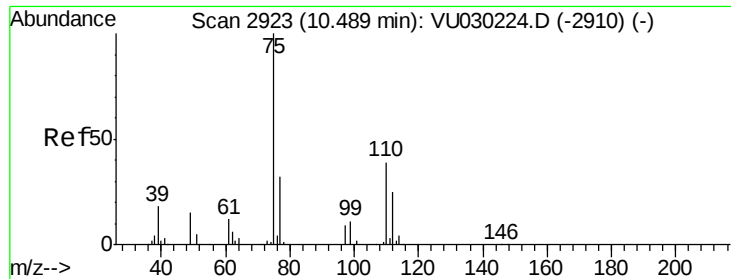
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 34546 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 89.3  | 64.4  | 119.6 |
| 131      | 85.8  | 63.2  | 117.4 |
| 166      | 117.1 | 89.5  | 166.1 |



#51  
Chlorobenzene  
Concen: 1.383 ug/L  
RT: 9.12 min Scan# 2497  
Delta R.T. 0.00 min  
Lab File: VU030246.D  
Acq: 21 Mar 2019 00:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 16270 |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 114      | 30.1  | 22.5  | 41.7  |
| 77       | 59.7  | 43.4  | 65.0  |

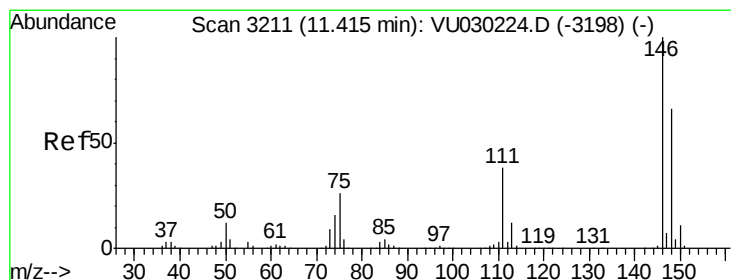
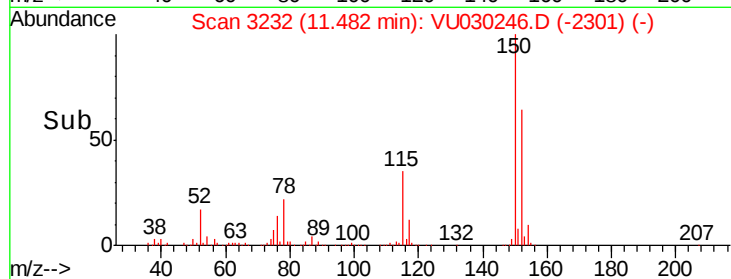
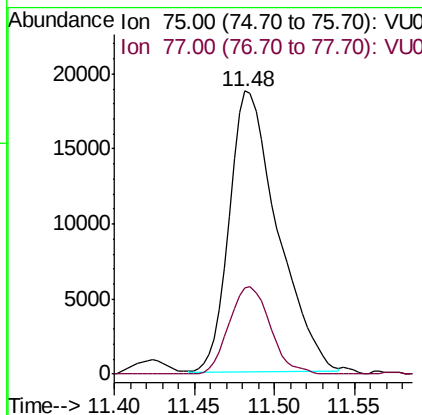
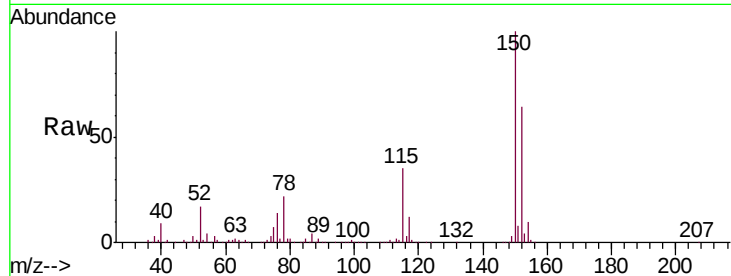




#59  
 1,2,3-Trichloropropane  
 Concen: 6.853 ug/L  
 RT: 11.48 min Scan# 3232  
 Delta R.T. 0.99 min  
 Lab File: VU030246.D  
 Acq: 21 Mar 2019 00:21

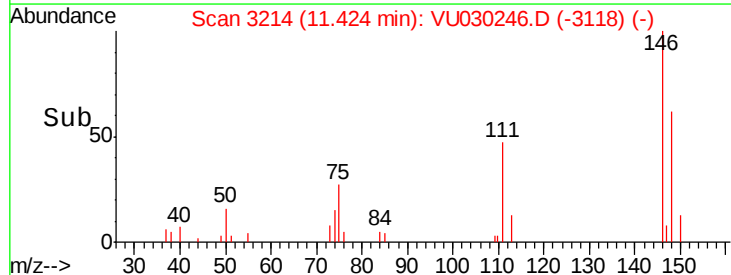
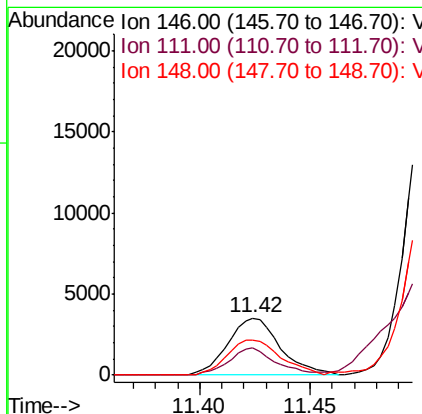
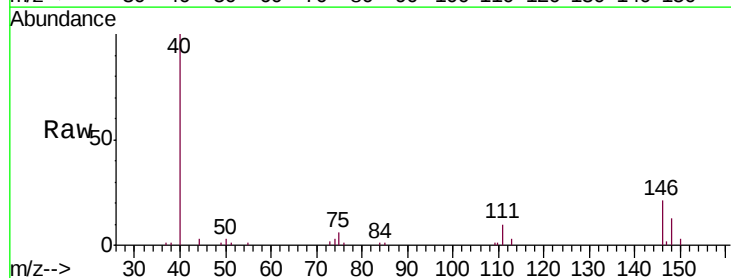
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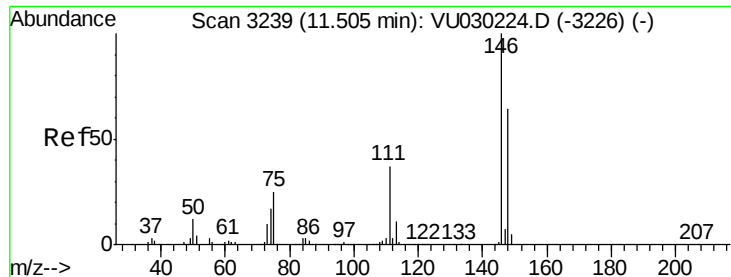
Tgt Ion: 75 Resp: 38746  
 Ion Ratio Lower Upper  
 75 100  
 77 26.5 25.8 38.8



#62  
 1,3-Dichlorobenzene  
 Concen: 0.617 ug/L  
 RT: 11.42 min Scan# 3214  
 Delta R.T. 0.01 min  
 Lab File: VU030246.D  
 Acq: 21 Mar 2019 00:21

Tgt Ion: 146 Resp: 5798  
 Ion Ratio Lower Upper  
 146 100  
 111 47.4 27.2 50.4  
 148 62.1 44.4 82.5

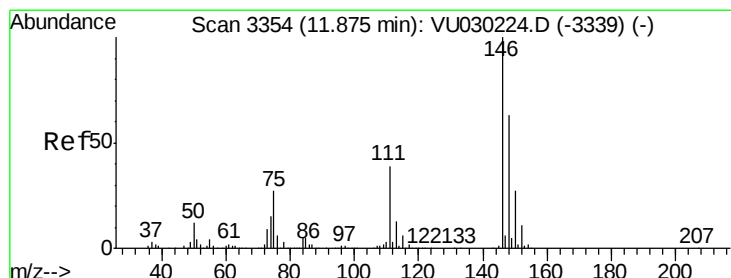
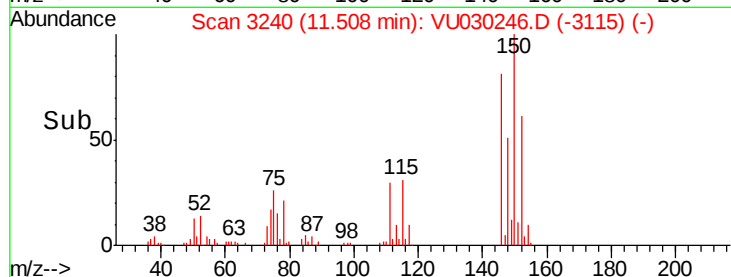
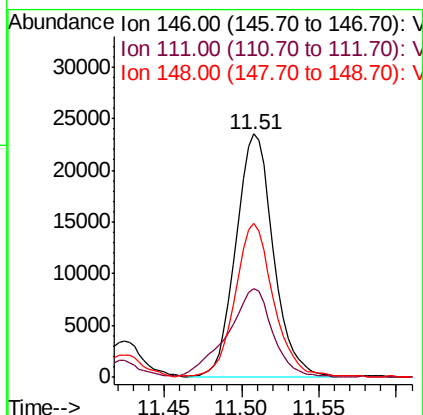
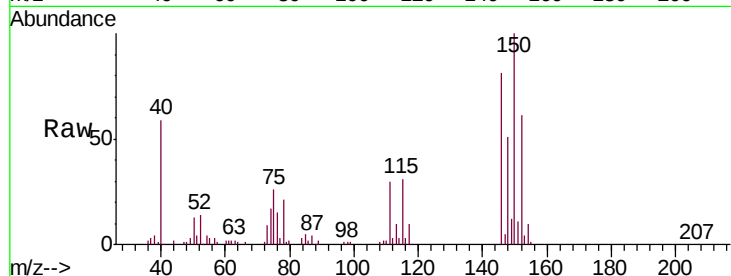




#63  
 1,4-Dichlorobenzene  
 Concen: 4.078 ug/L  
 RT: 11.51 min Scan# 3240  
 Delta R.T. 0.00 min  
 Lab File: VU030246.D  
 Acq: 21 Mar 2019 00:21

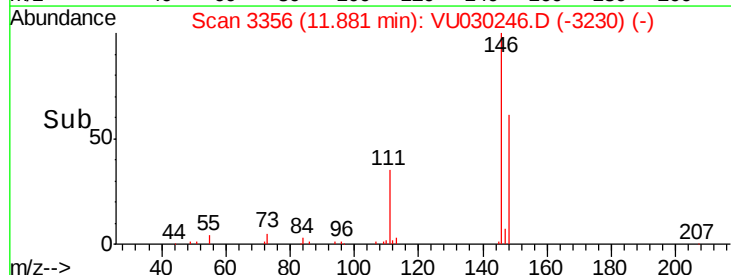
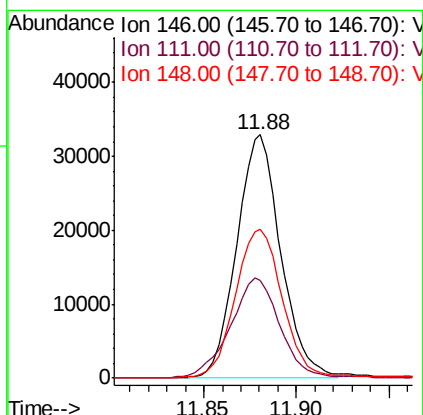
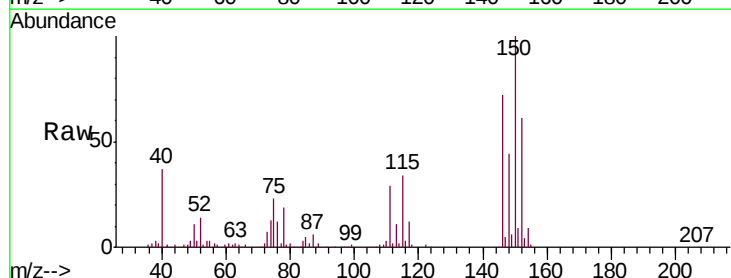
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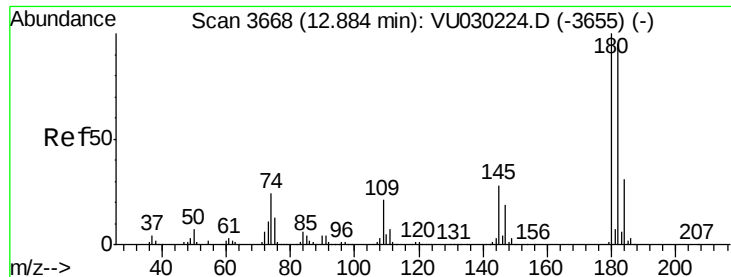
Tgt Ion:146 Resp: 39772  
 Ion Ratio Lower Upper  
 146 100  
 111 36.5 25.3 46.9  
 148 63.1 44.7 82.9



#65  
 1,2-Dichlorobenzene  
 Concen: 5.656 ug/L  
 RT: 11.88 min Scan# 3356  
 Delta R.T. 0.01 min  
 Lab File: VU030246.D  
 Acq: 21 Mar 2019 00:21

Tgt Ion:146 Resp: 54329  
 Ion Ratio Lower Upper  
 146 100  
 111 40.0 31.7 47.5  
 148 61.1 52.0 78.0

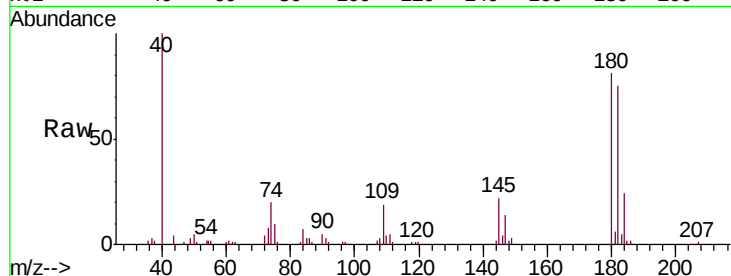




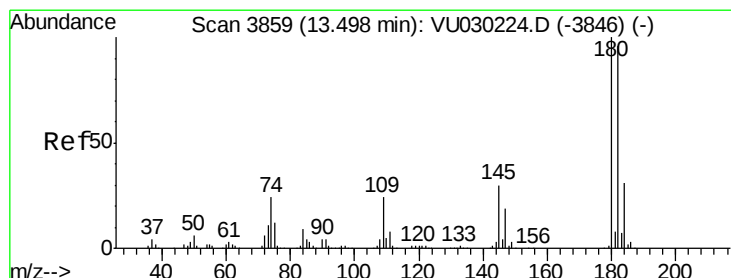
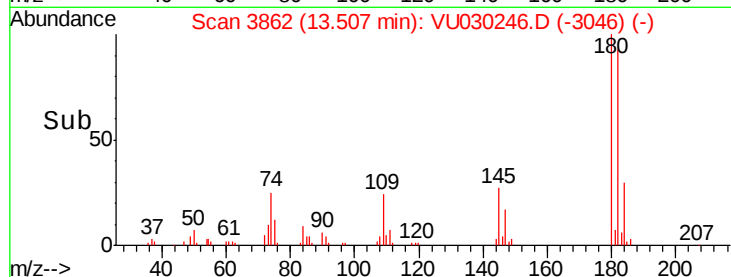
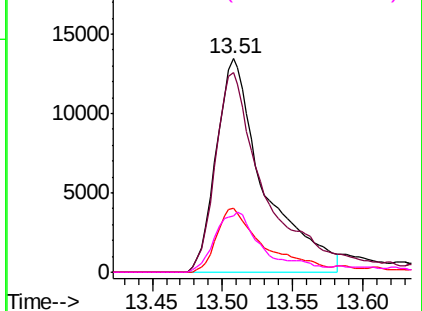
#67  
 1,3,5-Trichlorobenzene  
 Concen: 4.330 ug/L  
 RT: 13.51 min Scan# 3862  
 Delta R.T. 0.62 min  
 Lab File: VU030246.D  
 Acq: 21 Mar 2019 00:21

Instrument :  
 MSVOA\_U  
 ClientSampleID :  
 BF0D6

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 31816 |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 99.4  | 76.0  | 114.0 |
| 184      | 29.6  | 24.2  | 36.4  |
| 145      | 25.5  | 22.1  | 33.1  |

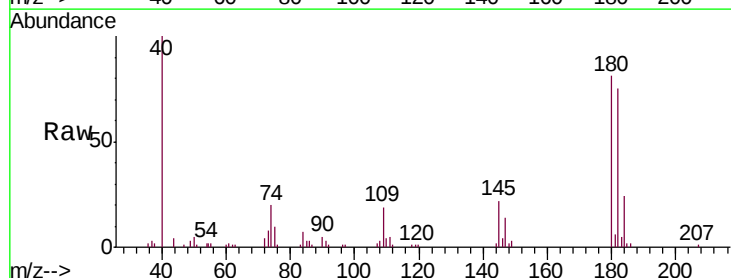


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

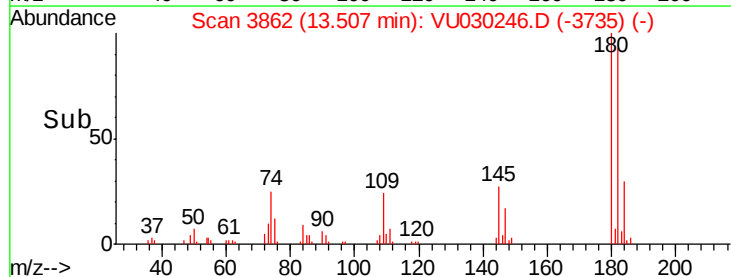
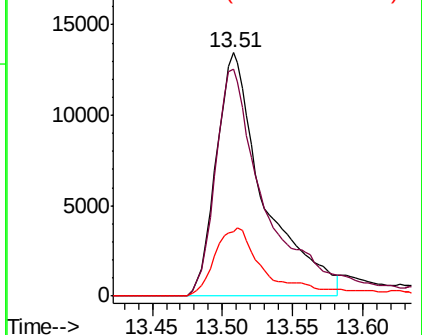


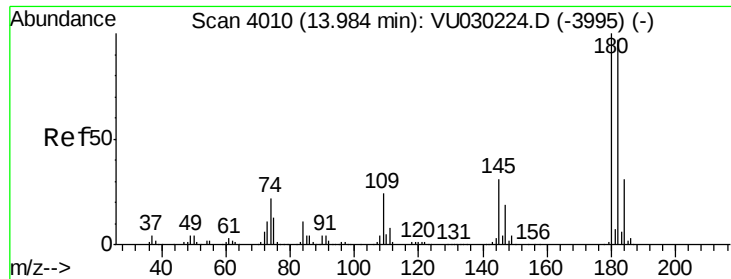
#68  
 1,2,4-trichlorobenzene  
 Concen: 4.896 ug/L  
 RT: 13.51 min Scan# 3862  
 Delta R.T. 0.01 min  
 Lab File: VU030246.D  
 Acq: 21 Mar 2019 00:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 31816 |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 99.4  | 76.4  | 114.6 |
| 145      | 25.5  | 22.7  | 34.1  |



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





#70  
 1,2,3-Trichlorobenzene  
 Concen: 0.766 ug/L  
 RT: 14.00 min Scan# 4016  
 Delta R.T. 0.02 min  
 Lab File: VU030246.D  
 Acq: 21 Mar 2019 00:21

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BF0D6

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 98.4  | 75.9  | 113.9 |
| 145     | 18.2  | 24.1  | 36.1  |

