

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV040920\  
 Data File : VV015423.D  
 Acq On : 09 Apr 2020 16:42  
 Operator : SY/MD  
 Sample : L2216-02  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0Y08

Quant Time: Apr 10 05:21:11 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR040920WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Apr 10 04:24:06 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 118670   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 111313   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 55639    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 29770    | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 96.60%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 27708    | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 97.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 43291    | 3.34     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 66.80%  |
| 20) 2-Butanone-d5              | 3.93   | 46    | 97861    | 56.60    | ug/L | -0.05   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 113.20% |
| 24) Chloroform-d               | 4.38   | 84    | 64086    | 4.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 37659    | 5.12     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 102.40% |
| 32) Benzene-d6                 | 5.08   | 84    | 127897   | 5.18     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.60% |
| 36) 1,2-Dichloropropane-d6     | 6.10   | 67    | 39995    | 5.20     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 104.00% |
| 41) Toluene-d8                 | 7.34   | 98    | 115739   | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.20%  |
| 43) trans-1,3-Dichloropropene- | 7.64   | 79    | 16624    | 4.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 99.40%  |
| 46) 2-Hexanone-d5              | 8.11   | 63    | 80069    | 49.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 99.26%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 30332    | 4.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 99.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 44977    | 5.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 100.80% |

## Target Compounds

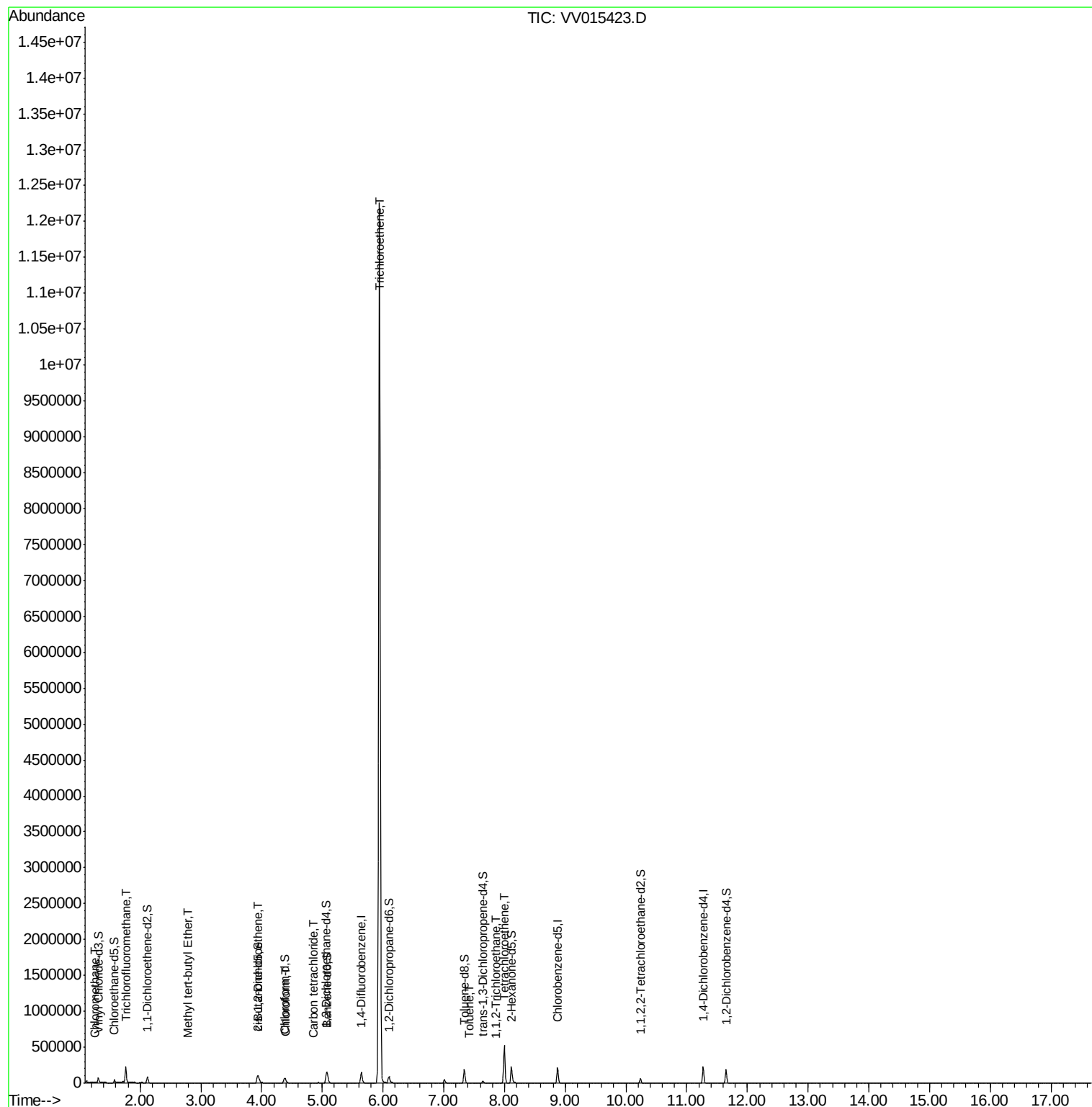
| Target Compounds            | R.T. | QIon | Response | Conc    | Units  | Ovalue |
|-----------------------------|------|------|----------|---------|--------|--------|
| 3) Chloromethane            | 1.25 | 50   | 3698     | 0.331   | ug/L   | 96     |
| 9) Trichlorofluoromethane   | 1.77 | 101  | 130396   | 9.462   | ug/L   | 99     |
| 17) Methyl tert-butyl Ether | 2.79 | 73   | 2710     | 0.136   | ug/L # | 67     |
| 22) cis-1,2-Dichloroethene  | 3.94 | 96   | 33173    | 3.806   | ug/L   | 96     |
| 25) Chloroform              | 4.41 | 83   | 10374    | 0.641   | ug/L   | 98     |
| 31) Carbon tetrachloride    | 4.86 | 117  | 3062     | 0.244   | ug/L   | 99     |
| 34) Trichloroethene         | 5.94 | 95   | 4197426  | 468.086 | ug/L   | 100    |
| 42) Toluene                 | 7.42 | 91   | 2805     | 0.078   | ug/L   | 96     |
| 45) 1,1,2-Trichloroethane   | 7.87 | 97   | 622      | 0.112   | ug/L   | 93     |
| 47) Tetrachloroethene       | 8.00 | 164  | 108421   | 16.319  | ug/L   | 99     |

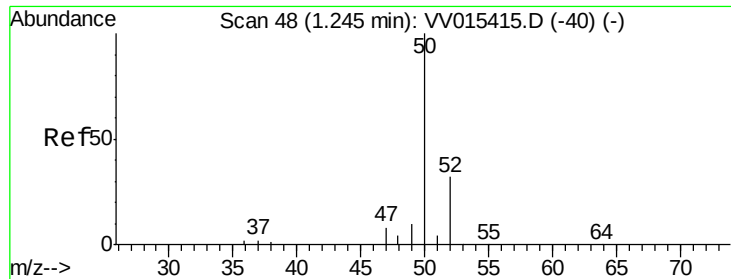
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Apr 10 04:24:06 2020  
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.331 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.01 min

Lab File: VV015423.D

Acq: 09 Apr 2020 16:42

Instrument :

MSVOA\_V

ClientSampleId :

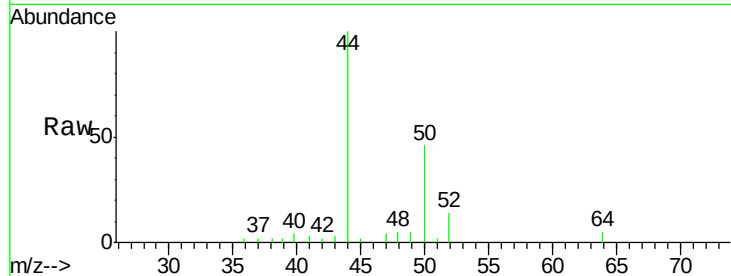
C0Y08

Tot Ion: 50 Resp: 3698

Ion Ratio Lower Upper

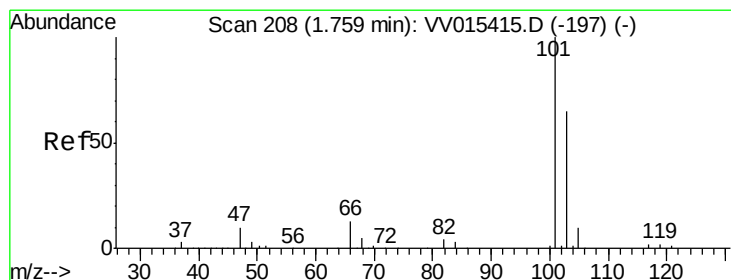
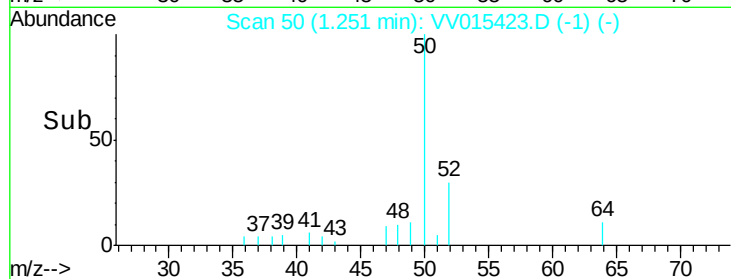
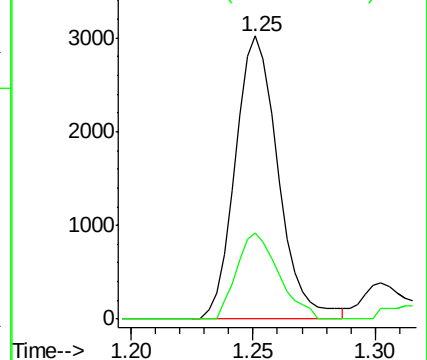
50 100

52 30.3 22.7 42.1



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0



#9

Trichlorofluoromethane

Concen: 9.462 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.01 min

Lab File: VV015423.D

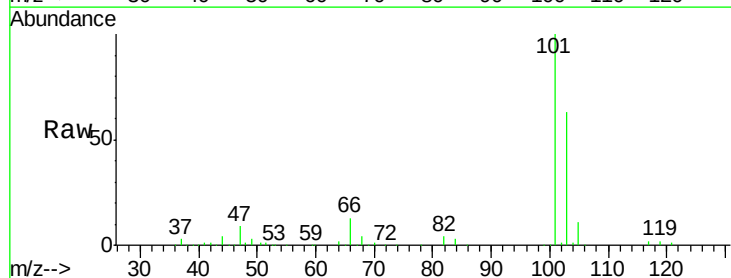
Acq: 09 Apr 2020 16:42

Tgt Ion:101 Resp: 130396

Ion Ratio Lower Upper

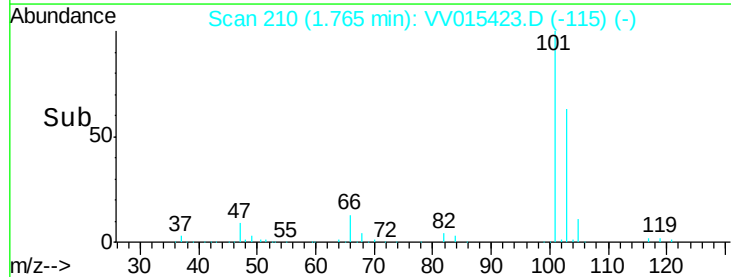
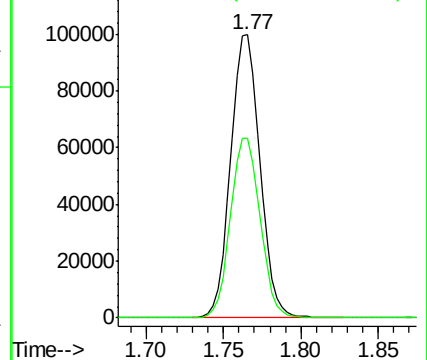
101 100

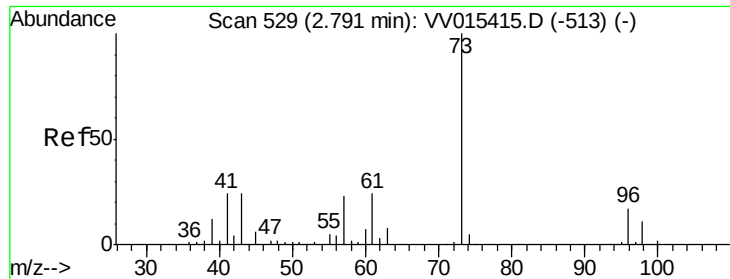
103 64.4 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

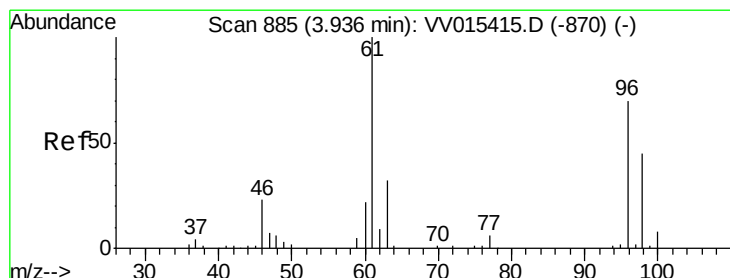
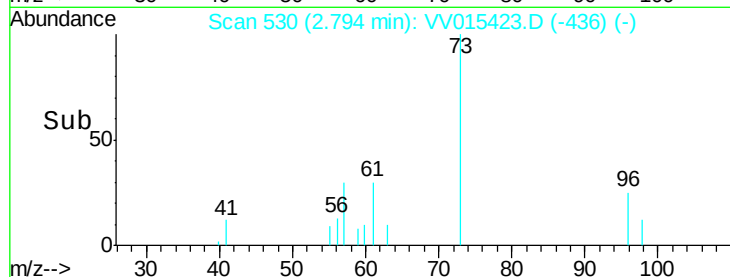
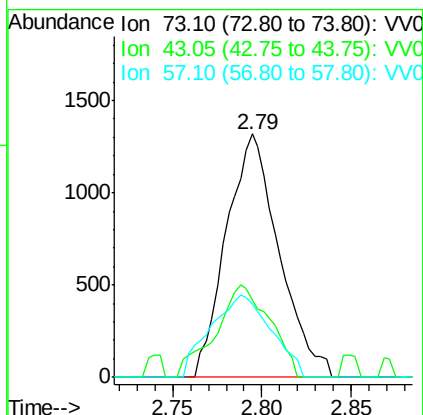
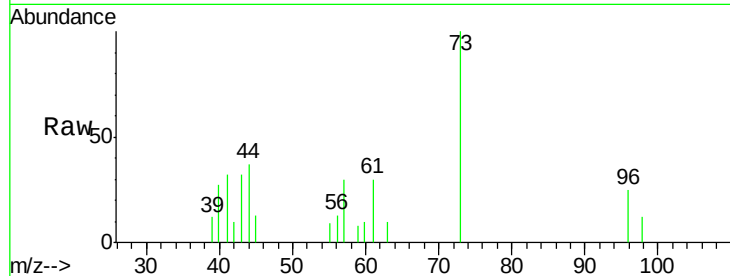




#17  
Methyl tert-butyl Ether  
Concen: 0.136 ug/L  
RT: 2.79 min Scan# 530  
Delta R.T. 0.00 min  
Lab File: VV015423.D  
Acq: 09 Apr 2020 16:42

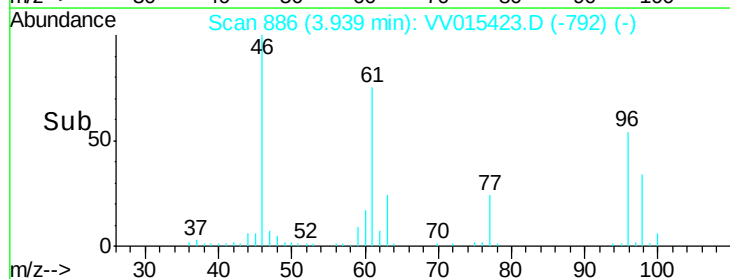
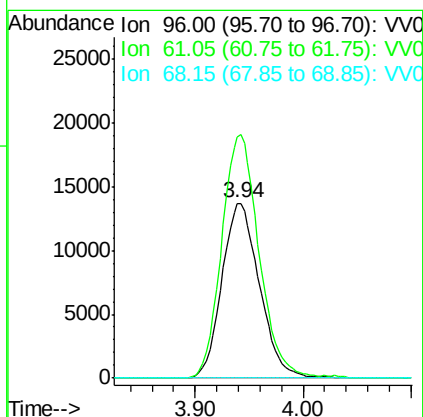
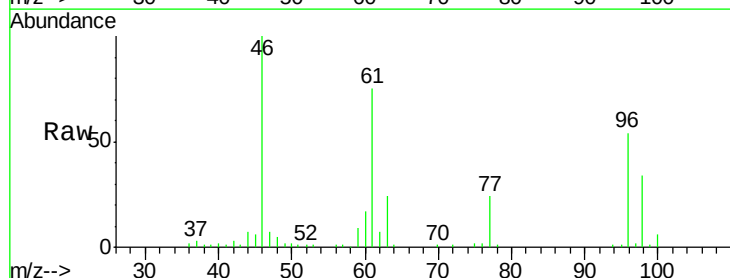
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0Y08

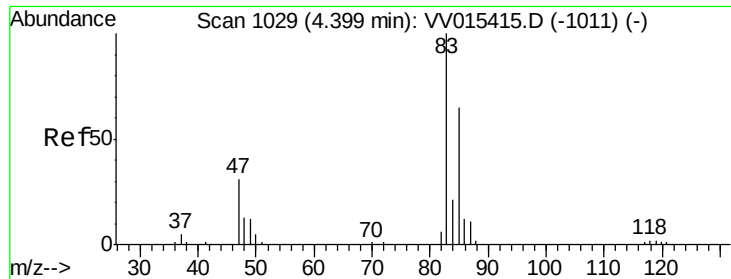
Tot Ion: 73 Resp: 2710  
Ion Ratio Lower Upper  
73 100  
43 39.1 18.3 27.5#  
57 38.8 18.4 27.6#



#22  
cis-1,2-Dichloroethene  
Concen: 3.806 ug/L  
RT: 3.94 min Scan# 886  
Delta R.T. 0.00 min  
Lab File: VV015423.D  
Acq: 09 Apr 2020 16:42

Tgt Ion: 96 Resp: 33173  
Ion Ratio Lower Upper  
96 100  
61 138.0 100.0 185.8  
68 0.0 0.0 0.0

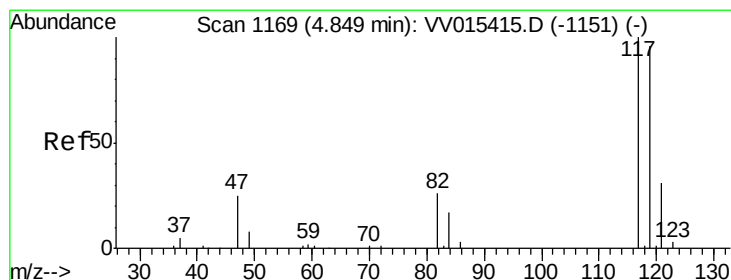
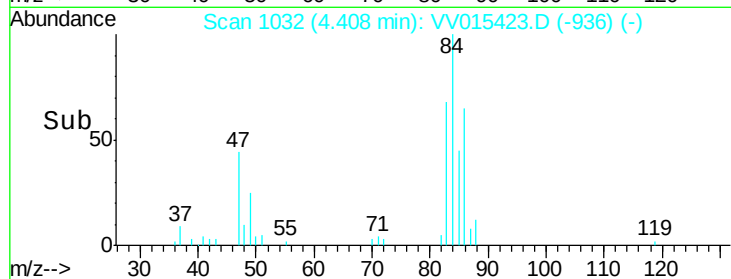
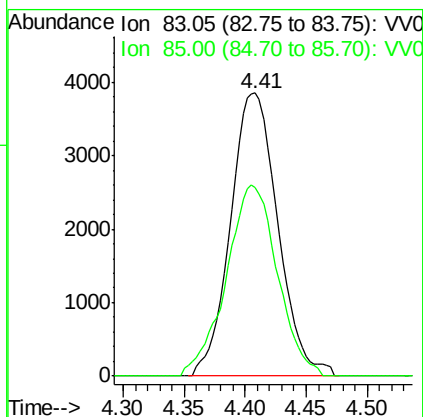
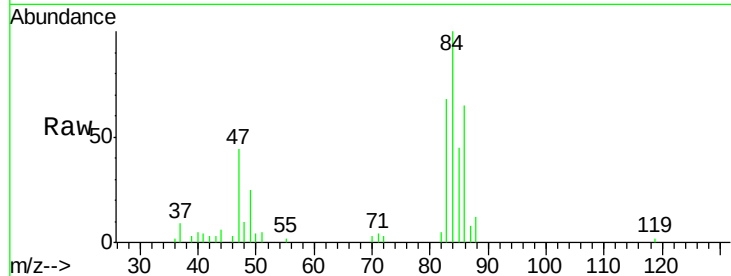




#25  
Chloroform  
Concen: 0.641 ug/L  
RT: 4.41 min Scan# 1032  
Delta R.T. 0.01 min  
Lab File: VV015423.D  
Acq: 09 Apr 2020 16:42

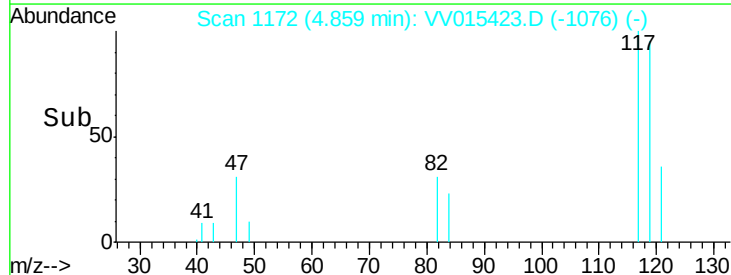
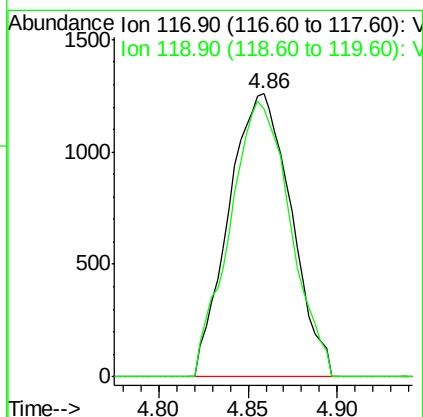
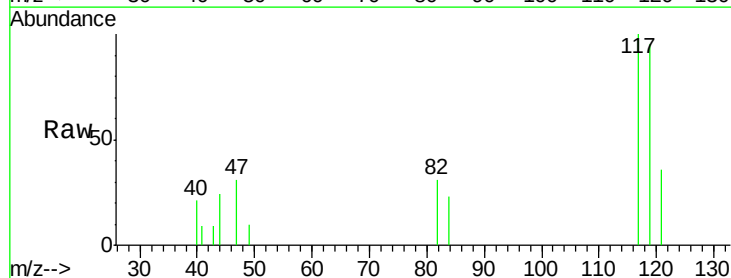
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0Y08

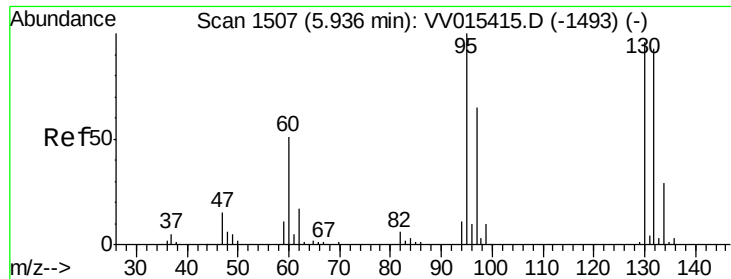
Tot Ion: 83 Resp: 10374  
Ion Ratio Lower Upper  
83 100  
85 66.8 45.9 85.3



#31  
Carbon tetrachloride  
Concen: 0.244 ug/L  
RT: 4.86 min Scan# 1172  
Delta R.T. 0.01 min  
Lab File: VV015423.D  
Acq: 09 Apr 2020 16:42

Tgt Ion: 117 Resp: 3062  
Ion Ratio Lower Upper  
117 100  
119 94.8 76.6 115.0



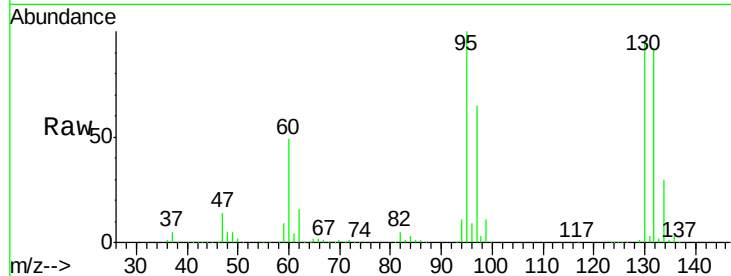


#34  
 Trichloroethene  
 Concen: 468.086 ug/L  
 RT: 5.94 min Scan# 1509  
 Delta R.T. 0.01 min  
 Lab File: VV015423.D  
 Acq: 09 Apr 2020 16:42

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0Y08

Tot Ion: 95 Resp: 4197426

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.2  | 45.4  | 84.4  |
| 132 | 92.3  | 64.8  | 120.4 |
| 130 | 96.2  | 67.4  | 125.2 |

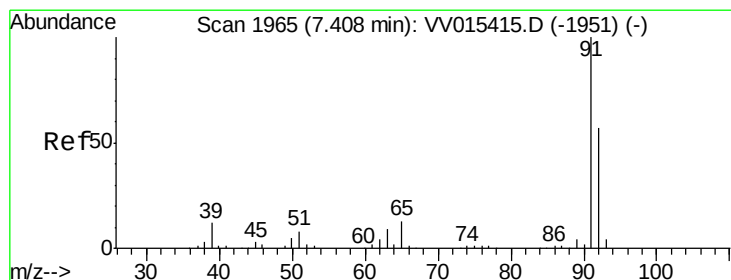
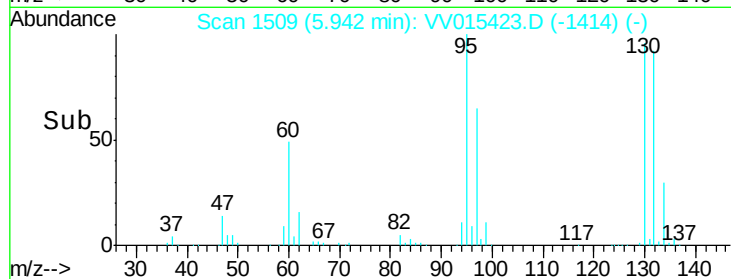
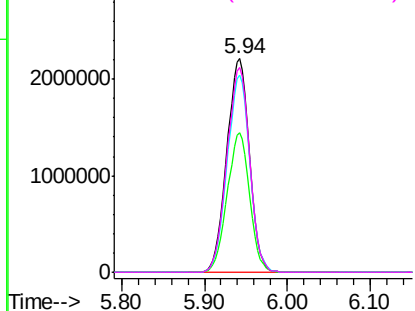


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

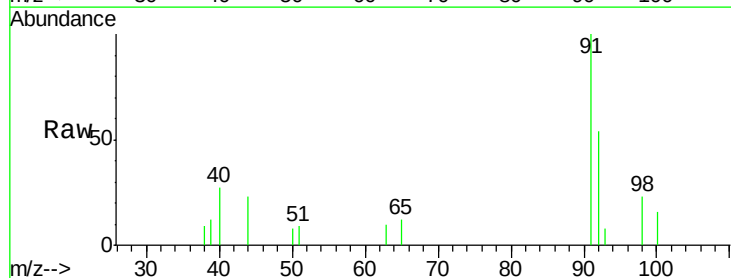
Ion 129.95 (129.65 to 130.65): VV0



#42  
 Toluene  
 Concen: 0.078 ug/L  
 RT: 7.42 min Scan# 1968  
 Delta R.T. 0.01 min  
 Lab File: VV015423.D  
 Acq: 09 Apr 2020 16:42

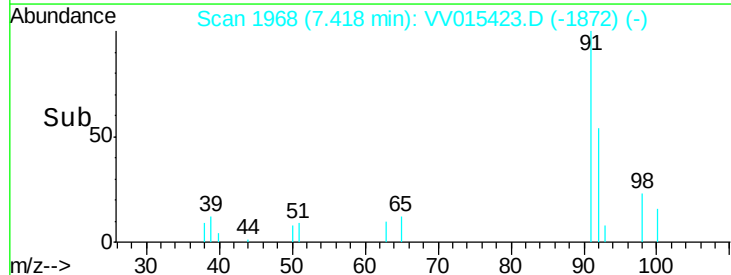
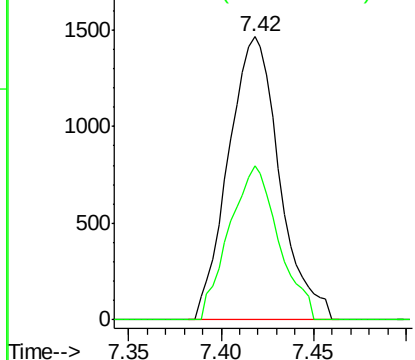
Tgt Ion: 91 Resp: 2805

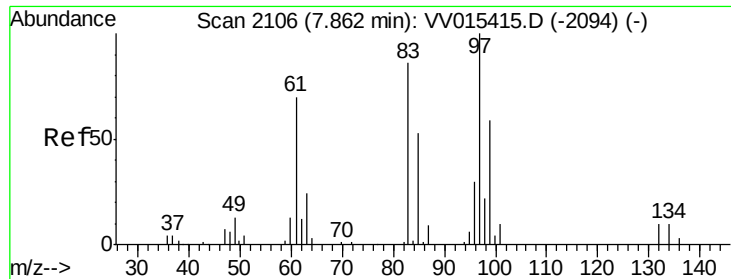
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 54.2  | 40.2  | 74.6  |



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

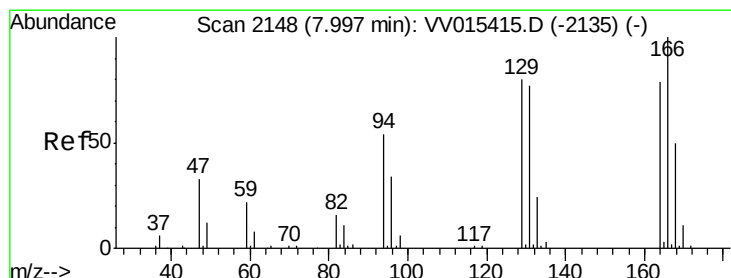
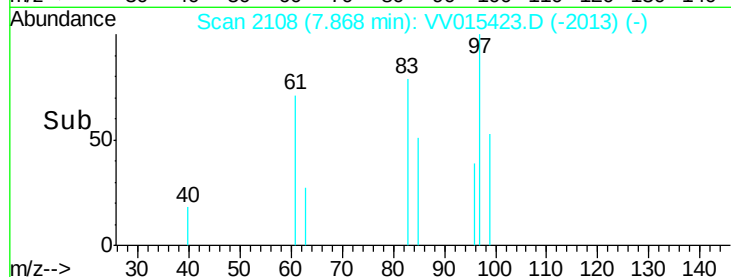
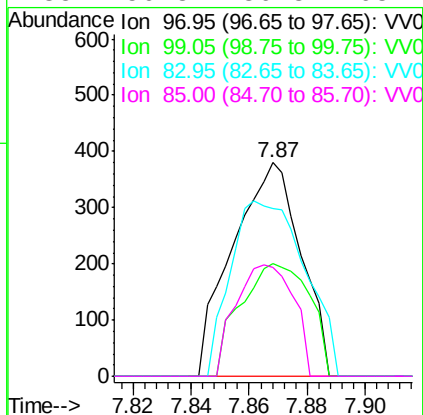
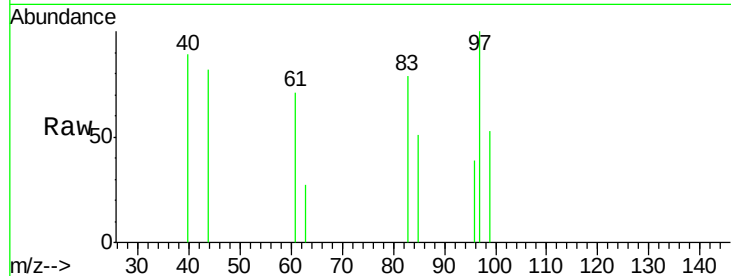




#45  
 1,1,2-Trichloroethane  
 Concen: 0.112 ug/L  
 RT: 7.87 min Scan# 2108  
 Delta R.T. 0.01 min  
 Lab File: VV015423.D  
 Acq: 09 Apr 2020 16:42

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0Y08

| Tot Ion: | 97    | Resp: | 622   |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 52.9  | 41.3  | 76.7  |
| 83       | 78.7  | 60.5  | 112.3 |
| 85       | 50.8  | 36.8  | 68.4  |



#47  
 Tetrachloroethene  
 Concen: 16.319 ug/L  
 RT: 8.00 min Scan# 2148  
 Delta R.T. 0.00 min  
 Lab File: VV015423.D  
 Acq: 09 Apr 2020 16:42

| Tgt Ion: | 164   | Resp: | 108421 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 99.2  | 70.6  | 131.0  |
| 131      | 96.8  | 68.3  | 126.8  |
| 166      | 127.8 | 88.3  | 163.9  |

