

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV070220\  
 Data File : VV017331.D  
 Acq On : 03 Jul 2020 01:25  
 Operator : SY/MD  
 Sample : L3121-21  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VHBLK01

Quant Time: Jul 03 06:21:20 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR061720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Jul 03 06:15:26 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 158312   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 152665   | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 74265    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 41560    | 4.37     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 87.40% |
| 7) Chloroethane-d5             | 1.58   | 69    | 32705    | 4.73     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 94.60% |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 67759    | 3.75     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 75.00% |
| 20) 2-Butanone-d5              | 3.95   | 46    | 95514    | 39.44    | ug/L | 0.02   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 78.88% |
| 24) Chloroform-d               | 4.38   | 84    | 93479    | 4.60     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.00% |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 53647    | 4.98     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.60% |
| 32) Benzene-d6                 | 5.07   | 84    | 173884   | 4.39     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 87.80% |
| 36) 1,2-Dichloropropane-d6     | 6.10   | 67    | 49292    | 4.16     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 83.20% |
| 41) Toluene-d8                 | 7.34   | 98    | 158233   | 4.26     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 85.20% |
| 45) trans-1,3-Dichloropropene- | 7.65   | 79    | 19809    | 4.01     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 80.20% |
| 48) 2-Hexanone-d5              | 8.11   | 63    | 63708    | 33.86    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 67.72% |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 34334    | 4.36     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 87.20% |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 62802    | 4.57     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 91.40% |

## Target Compounds

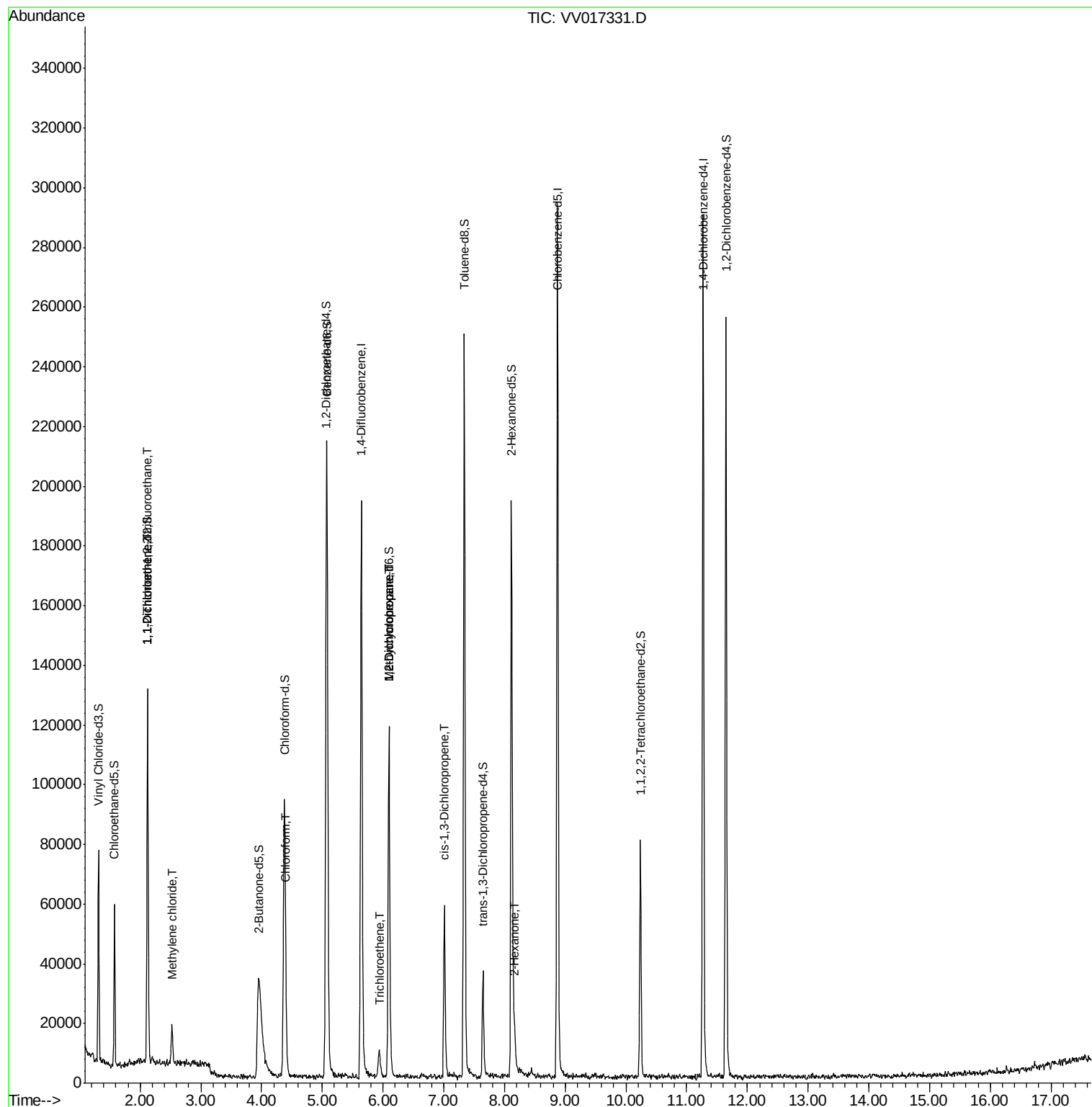
| Target Compounds               | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|------|------|----------|-------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12 | 101  | 633      | 0.075 | ug/L # | 17     |
| 12) 1,1-Dichloroethene         | 2.12 | 96   | 699      | 0.092 | ug/L # | 1      |
| 16) Methylene chloride         | 2.52 | 84   | 5471     | 0.672 | ug/L   | 98     |
| 25) Chloroform                 | 4.41 | 83   | 3351     | 0.170 | ug/L   | 98     |
| 34) Trichloroethene            | 5.94 | 95   | 1802     | 0.154 | ug/L   | 94     |
| 35) Methylcyclohexane          | 6.09 | 83   | 13749    | 0.755 | ug/L # | 19     |
| 37) 1,2-Dichloropropane        | 6.10 | 63   | 6382     | 0.645 | ug/L # | 86     |
| 39) cis-1,3-Dichloropropene    | 7.01 | 75   | 1967     | 0.134 | ug/L # | 76     |
| 50) 2-Hexanone                 | 8.17 | 43   | 6188     | 1.522 | ug/L # | 90     |

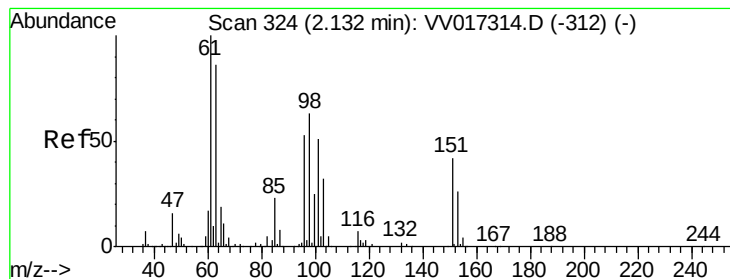
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 03 06:21:20 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR061720WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Jul 03 06:15:26 2020  
Response via : Initial Calibration





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.075 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV017331.D

Acq: 03 Jul 2020 01:25

Instrument :

MSVOA\_V

ClientSampled :

VHBLK01

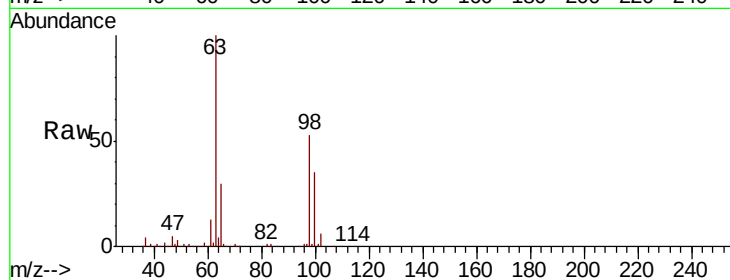
Tot Ion:101 Resp: 633

Ion Ratio Lower Upper

101 100

85 0.0 35.4 53.2#

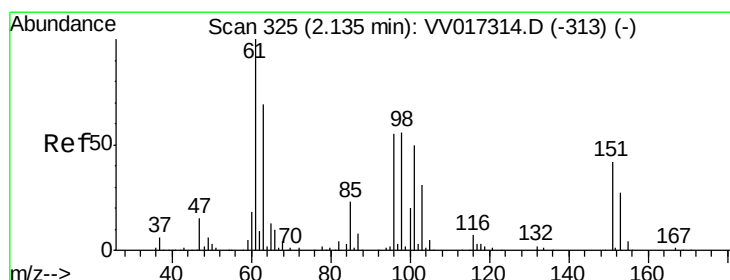
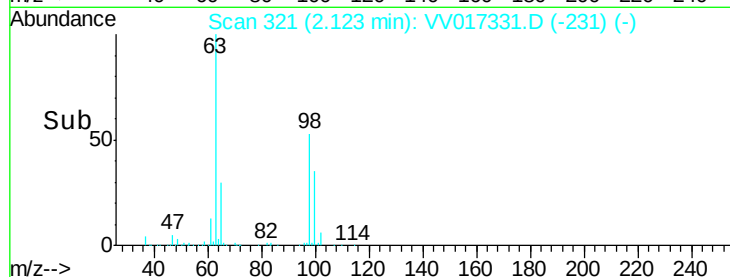
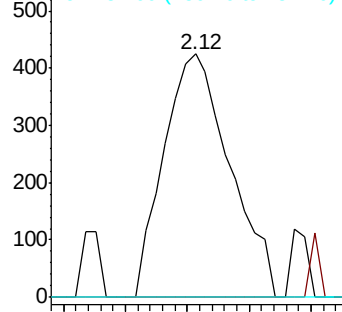
151 0.0 63.9 95.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.092 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV017331.D

Acq: 03 Jul 2020 01:25

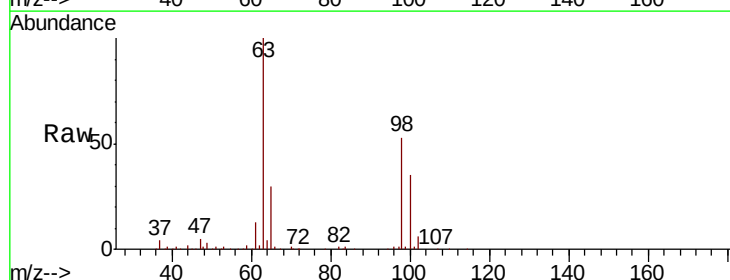
Tgt Ion: 96 Resp: 699

Ion Ratio Lower Upper

96 100

61 1117.7 125.0 232.2#

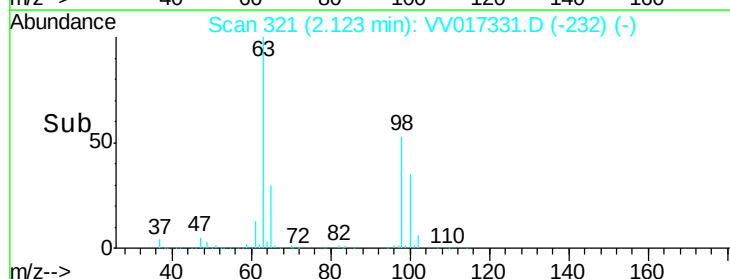
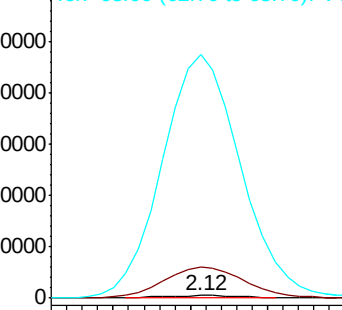
63 8685.9 109.8 203.8#

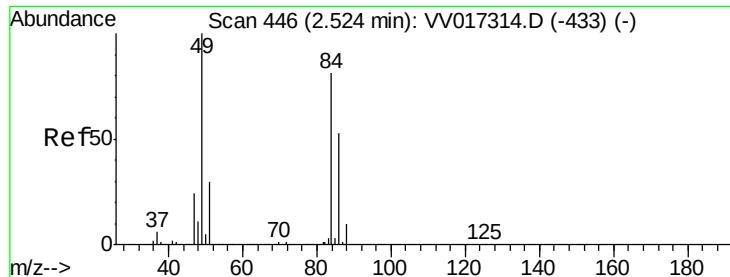


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0

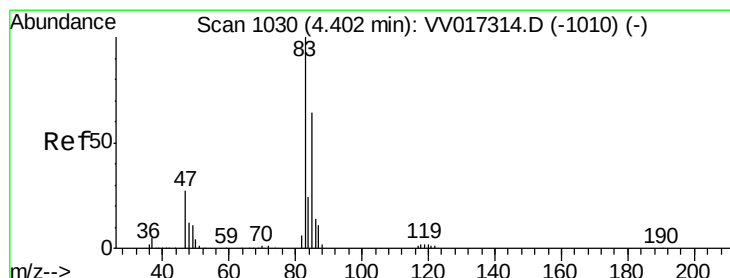
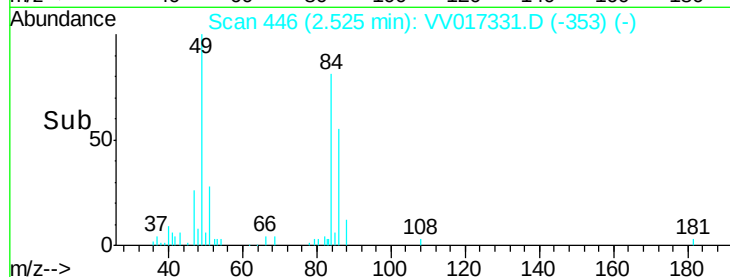
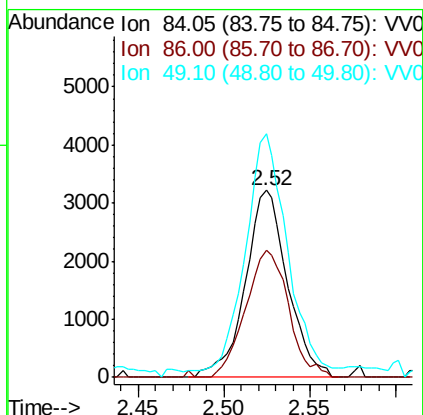
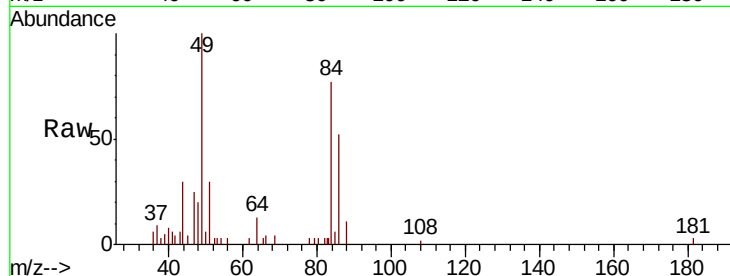




#16  
Methylene chloride  
Concen: 0.672 ug/L  
RT: 2.52 min Scan# 446  
Delta R.T. 0.00 min  
Lab File: VV017331.D  
Acq: 03 Jul 2020 01:25

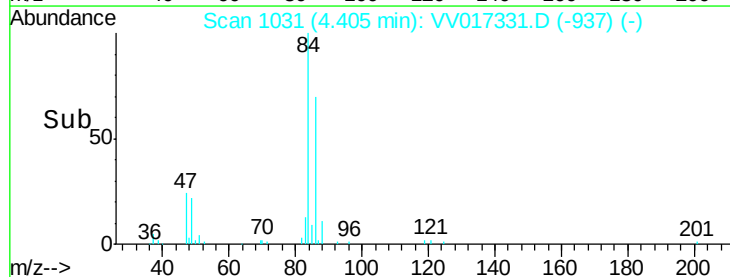
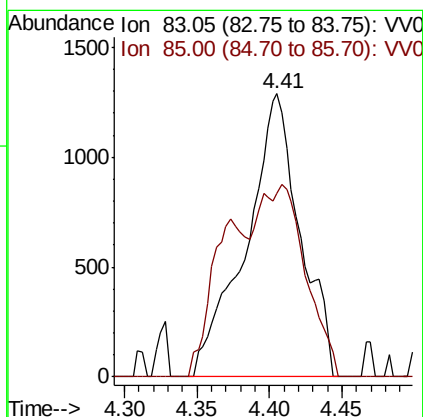
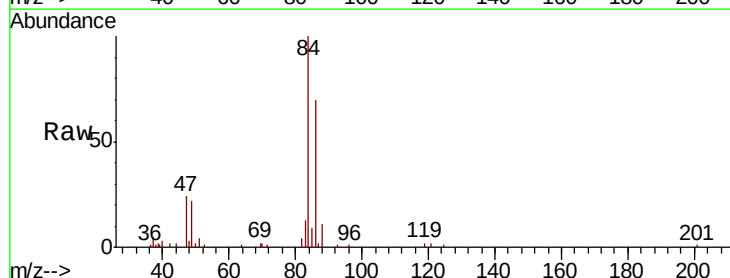
Instrument :  
MSVOA\_V  
ClientSampled :  
VHBLK01

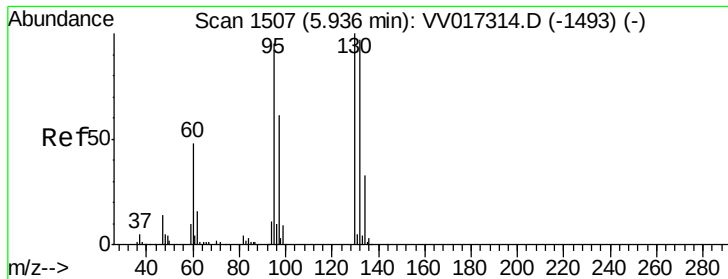
Tot Ion: 84 Resp: 5471  
Ion Ratio Lower Upper  
84 100  
86 68.0 45.8 85.0  
49 130.3 89.6 166.4



#25  
Chloroform  
Concen: 0.170 ug/L  
RT: 4.41 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VV017331.D  
Acq: 03 Jul 2020 01:25

Tgt Ion: 83 Resp: 3351  
Ion Ratio Lower Upper  
83 100  
85 65.1 44.2 82.2

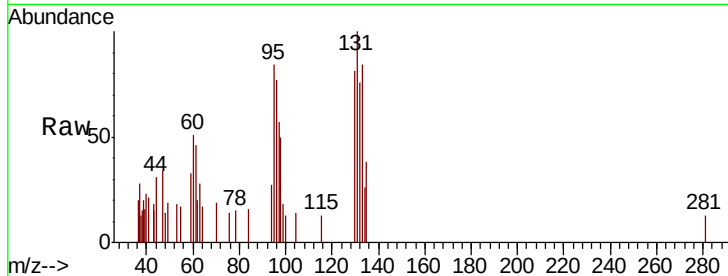




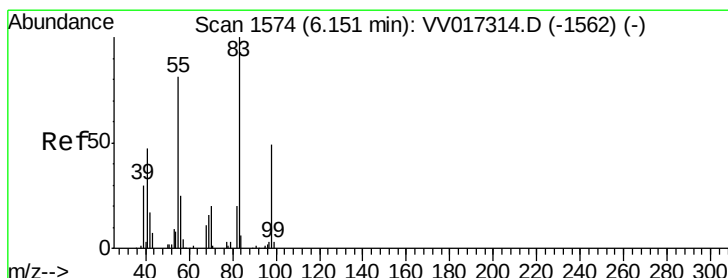
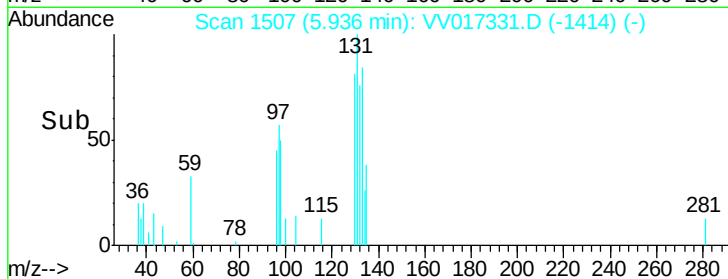
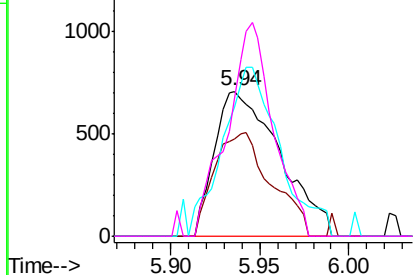
#34  
 Trichloroethene  
 Concen: 0.154 ug/L  
 RT: 5.94 min Scan# 1507  
 Delta R.T. 0.00 min  
 Lab File: VV017331.D  
 Acq: 03 Jul 2020 01:25

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VHBLK01

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 95    | Resp: | 1802  |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 97       | 67.1  | 45.3  | 84.1  |
| 132      | 89.5  | 68.8  | 127.8 |
| 130      | 95.5  | 70.2  | 130.4 |

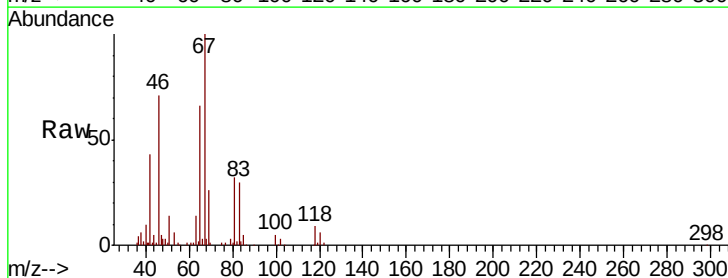


Abundance Ion 95.00 (94.70 to 95.70): VV0  
 Ion 96.95 (96.65 to 97.65): VV0  
 Ion 131.95 (131.65 to 132.65): VV0  
 Ion 129.95 (129.65 to 130.65): VV0

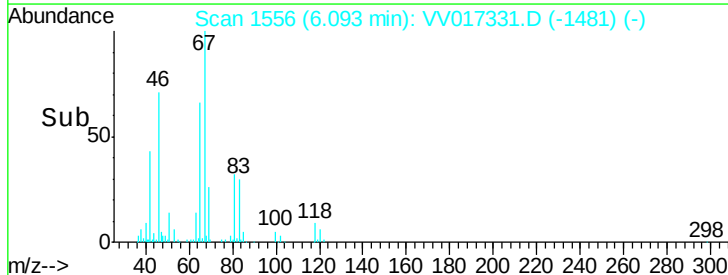
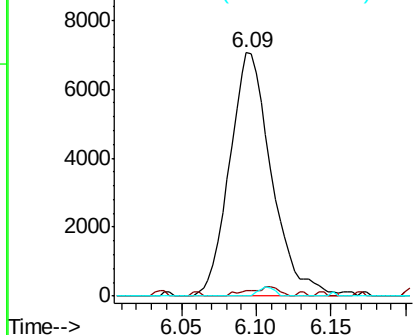


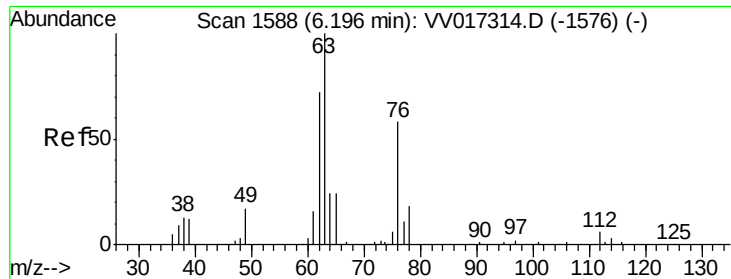
#35  
 Methylcyclohexane  
 Concen: 0.755 ug/L  
 RT: 6.09 min Scan# 1556  
 Delta R.T. -0.06 min  
 Lab File: VV017331.D  
 Acq: 03 Jul 2020 01:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 13749 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 2.7   | 63.6  | 95.4# |
| 98       | 1.4   | 38.8  | 58.2# |



Abundance Ion 83.15 (82.85 to 83.85): VV0  
 Ion 55.10 (54.80 to 55.80): VV0  
 Ion 98.15 (97.85 to 98.85): VV0

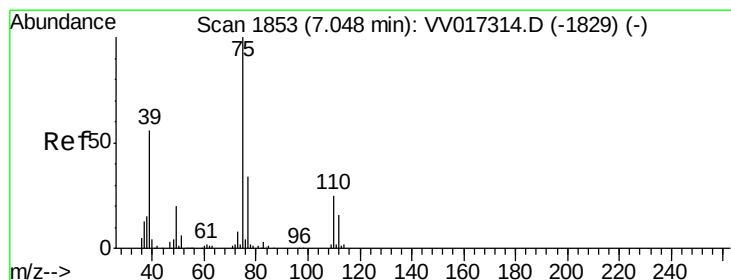
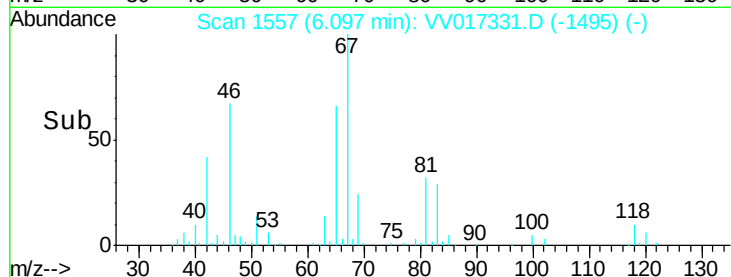
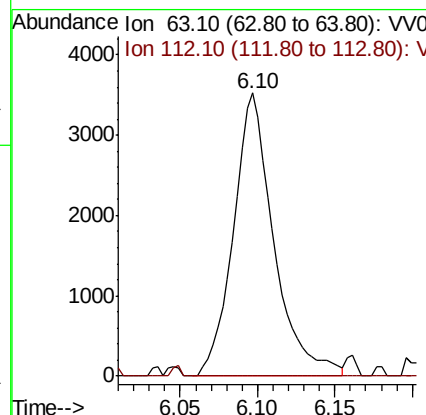
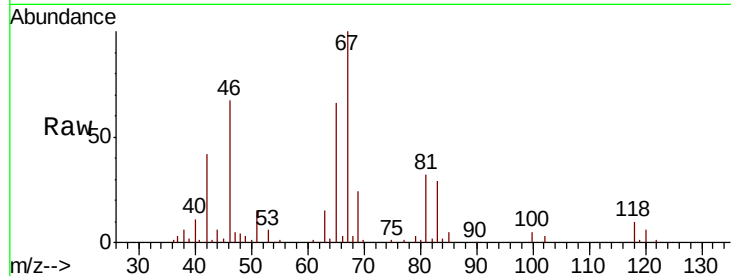




#37  
 1,2-Dichloropropane  
 Concen: 0.645 ug/L  
 RT: 6.10 min Scan# 1557  
 Delta R.T. -0.10 min  
 Lab File: VV017331.D  
 Acq: 03 Jul 2020 01:25

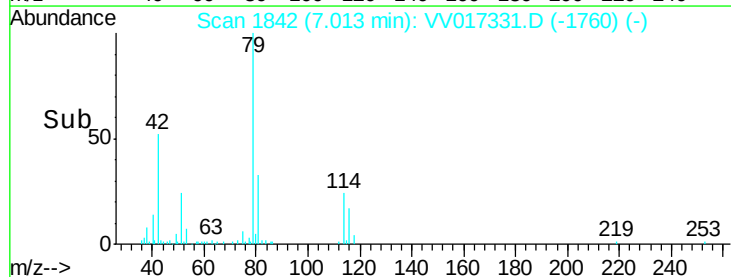
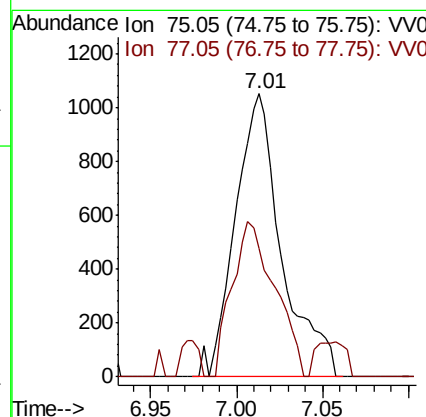
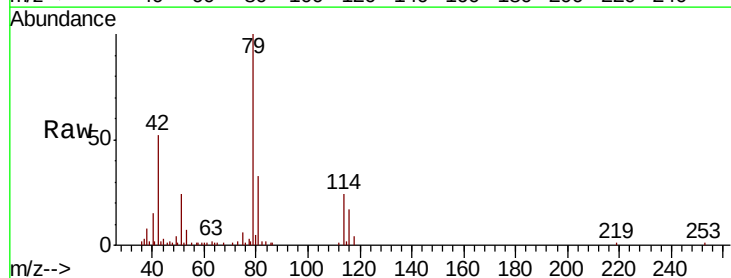
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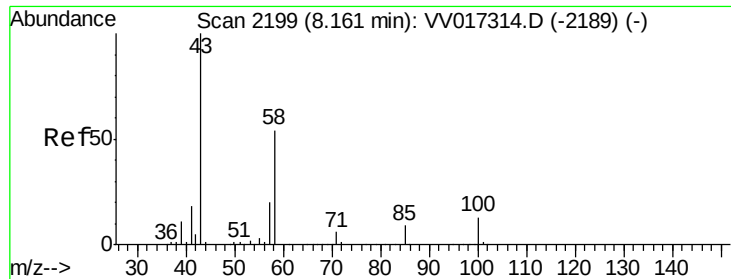
Tot Ion: 63 Resp: 6382  
 Ion Ratio Lower Upper  
 63 100  
 112 0.7 4.4 6.6#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.134 ug/L  
 RT: 7.01 min Scan# 1842  
 Delta R.T. -0.04 min  
 Lab File: VV017331.D  
 Acq: 03 Jul 2020 01:25

Tgt Ion: 75 Resp: 1967  
 Ion Ratio Lower Upper  
 75 100  
 77 45.4 22.3 41.5#





#50

2-Hexanone

Concen: 1.522 ug/L

RT: 8.17 min Scan# 2202

Delta R.T. 0.01 min

Lab File: VV017331.D

Acq: 03 Jul 2020 01:25

Instrument :  
MSVOA\_V  
ClientSampleId :  
VHBLK01

Tot Ion: 43 Resp: 6188

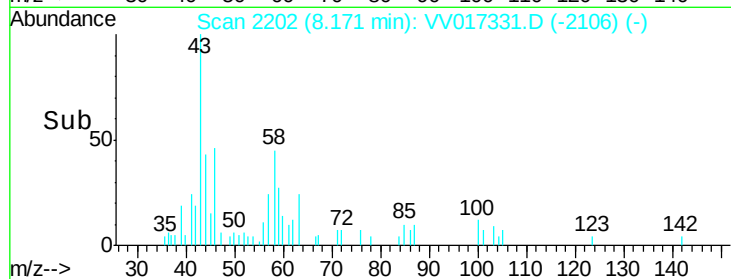
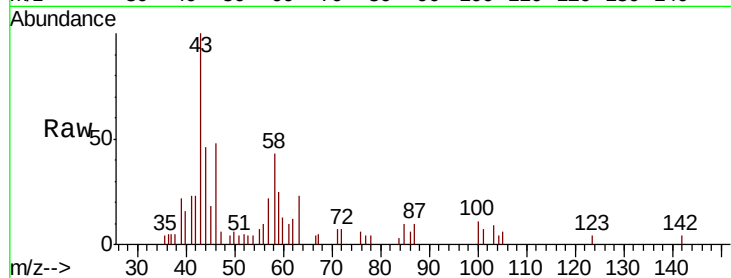
Ion Ratio Lower Upper

43 100

58 43.6 41.6 62.4

57 15.3 15.4 23.0#

100 10.7 10.1 15.1



Abundance Ion 43.05 (42.75 to 43.75): VV0  
Ion 58.05 (57.75 to 58.75): VV0  
Ion 57.20 (56.90 to 57.90): VV0  
Ion 100.15 (99.85 to 100.85): VV0

