

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082420\  
 Data File : VW016340.D  
 Acq On : 24 Aug 2020 19:04  
 Operator : SY/VA  
 Sample : L3789-06  
 Misc : 6.53G/10ML/MSVOA W/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFS11

Quant Time: Aug 25 05:31:19 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM082420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Aug 25 05:29:05 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 255444   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 240736   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 114167   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 45623    | 16.73    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 66.92%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 38960    | 18.82    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 75.28%  |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 84848    | 13.10    | ug/L | -0.01   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 52.40%  |
| 20) 2-Butanone-d5              | 7.08   | 46    | 33698    | 43.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 86.88%  |
| 24) Chloroform-d               | 7.65   | 84    | 140434   | 21.09    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 84.36%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 73747    | 21.49    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 85.96%  |
| 29) Benzene-d6                 | 8.27   | 84    | 260566   | 19.39    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 77.56%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 79537    | 21.39    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 85.56%  |
| 37) Toluene-d8                 | 10.32  | 98    | 235998   | 18.61    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 74.44%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 33349    | 18.58    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 74.32%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 30167    | 50.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 101.26% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 70286    | 22.71    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 90.84%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 94361    | 21.55    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 86.20%  |

## Target Compounds

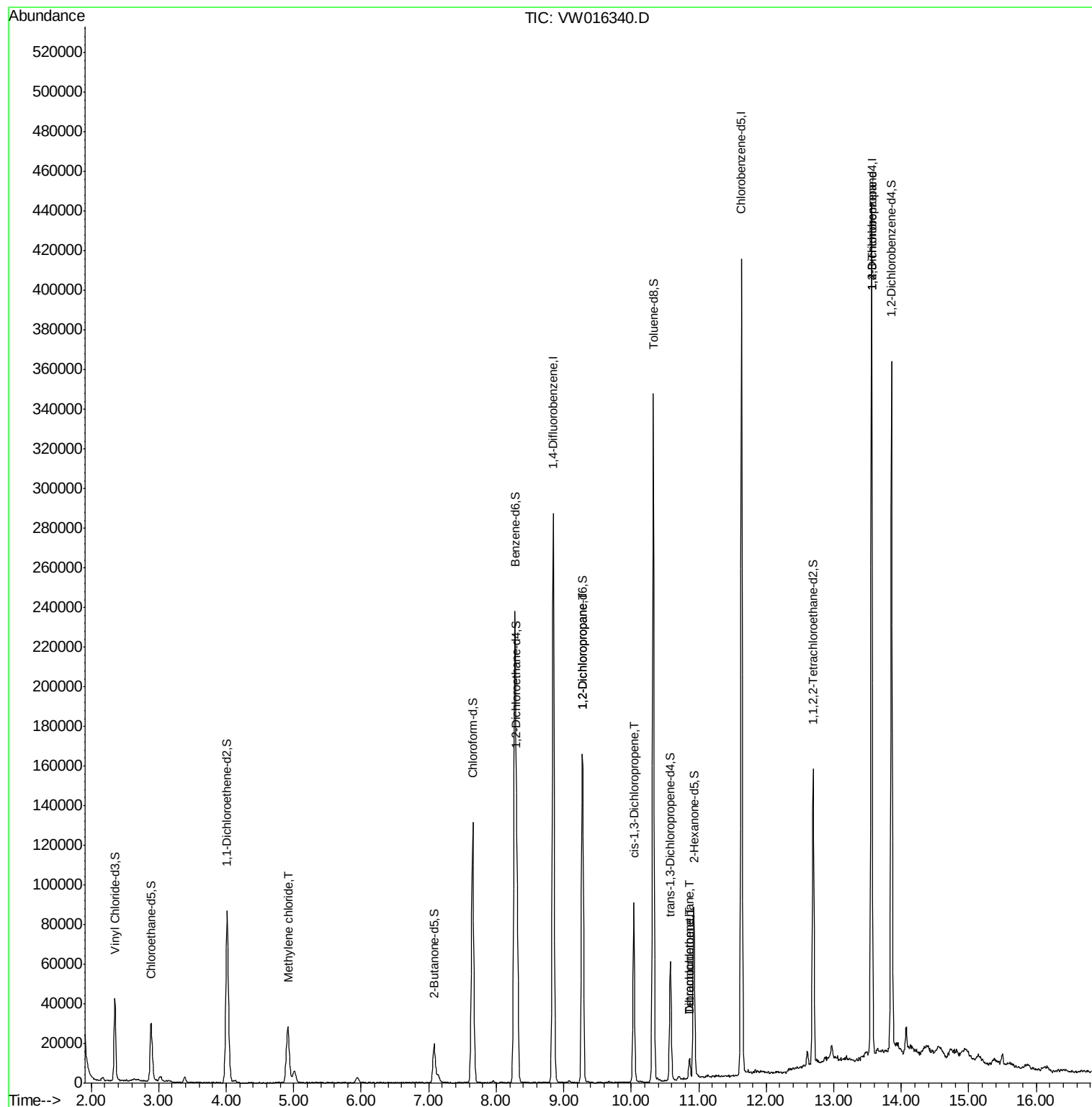
| Target Compounds            | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|-----------------------------|-------|------|----------|-------|--------|--------|
| 16) Methylene chloride      | 4.92  | 84   | 23622    | 5.002 | ug/L   | 95     |
| 40) 1,2-Dichloropropane     | 9.27  | 63   | 8744     | 2.693 | ug/L # | 84     |
| 42) cis-1,3-Dichloropropene | 10.04 | 75   | 2260     | 0.425 | ug/L # | 77     |
| 47) Tetrachloroethene       | 10.86 | 164  | 2325     | 0.754 | ug/L   | 75     |
| 50) Dibromochloromethane    | 10.87 | 129  | 2403     | 0.720 | ug/L # | 11     |
| 59) 1,2,3-Trichloropropane  | 13.55 | 75   | 12844    | 5.545 | ug/L   | 95     |

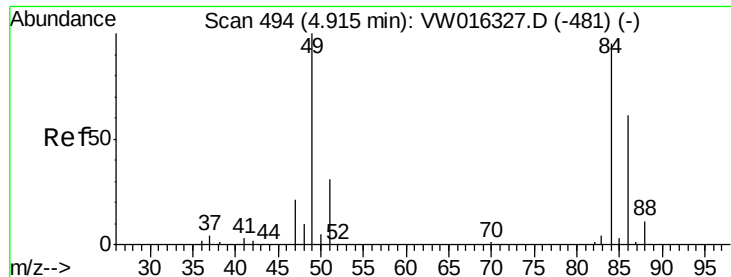
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Tue Aug 25 05:29:05 2020  
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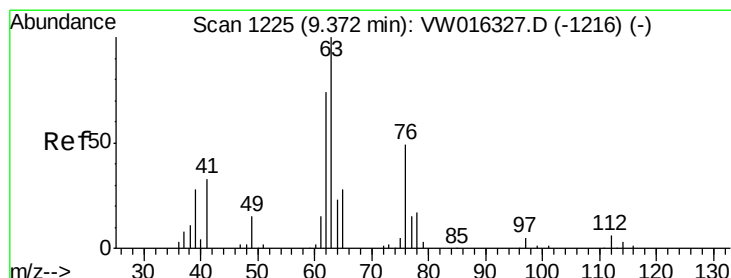
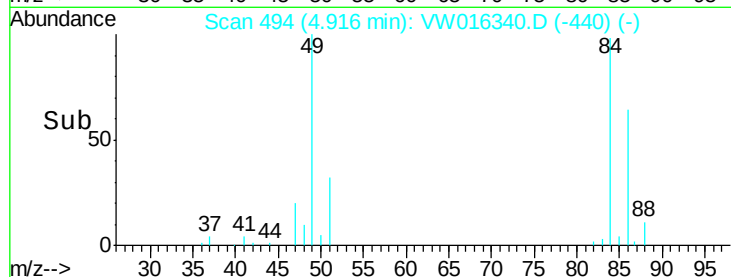
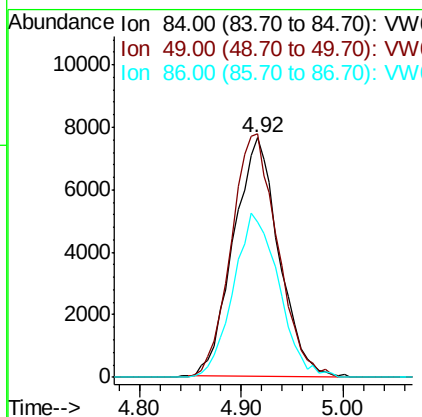
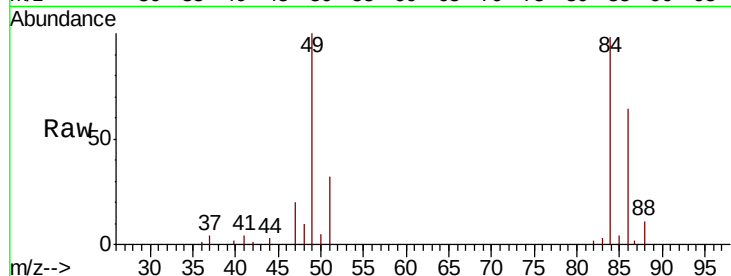




#16  
Methylene chloride  
Concen: 5.002 ug/L  
RT: 4.92 min Scan# 494  
Delta R.T. 0.00 min  
Lab File: VW016340.D  
Acq: 24 Aug 2020 19:04

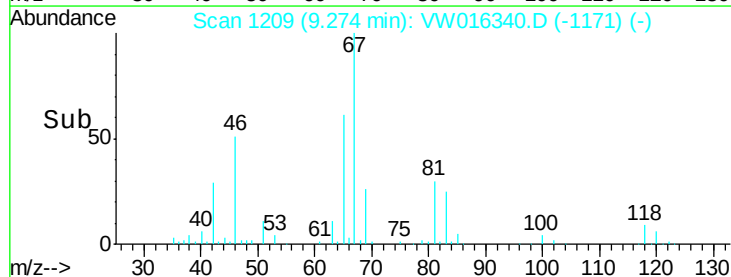
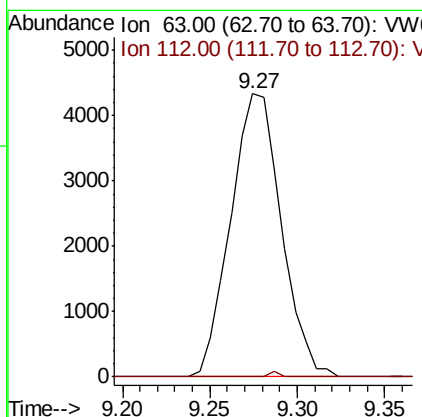
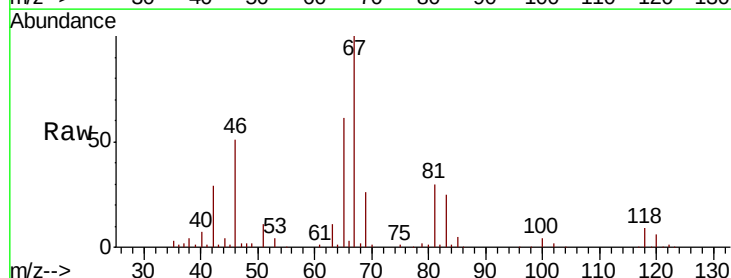
Instrument :  
MSVOA\_W  
ClientSampled :  
BFS1

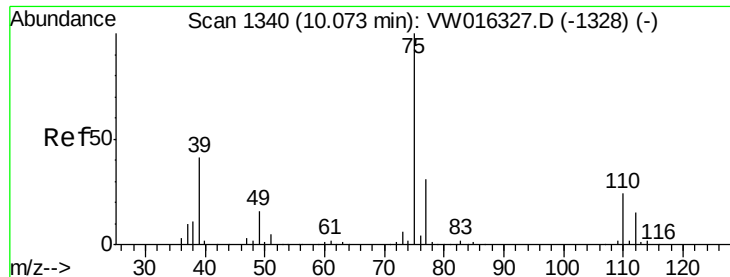
Tot Ion: 84 Resp: 23622  
Ion Ratio Lower Upper  
84 100  
49 101.8 75.3 139.9  
86 65.1 43.3 80.3



#40  
1,2-Dichloropropane  
Concen: 2.693 ug/L  
RT: 9.27 min Scan# 1209  
Delta R.T. -0.10 min  
Lab File: VW016340.D  
Acq: 24 Aug 2020 19:04

Tgt Ion: 63 Resp: 8744  
Ion Ratio Lower Upper  
63 100  
112 0.0 4.4 6.6#





#42

cis-1,3-Dichloropropene

Concen: 0.425 ug/L

RT: 10.04 min Scan# 1334

Delta R.T. -0.04 min

Lab File: VW016340.D

Acq: 24 Aug 2020 19:04

Instrument :

MSVOA\_W

ClientSampled :

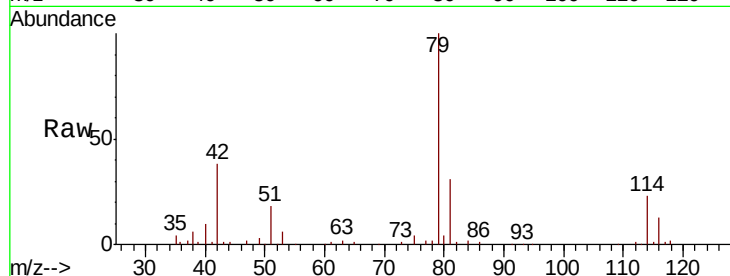
BFS1

Tot Ion: 75 Resp: 2260

Ion Ratio Lower Upper

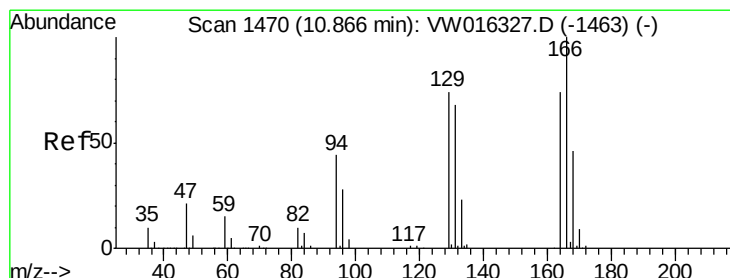
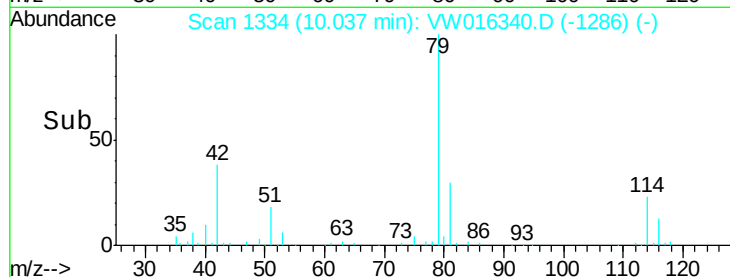
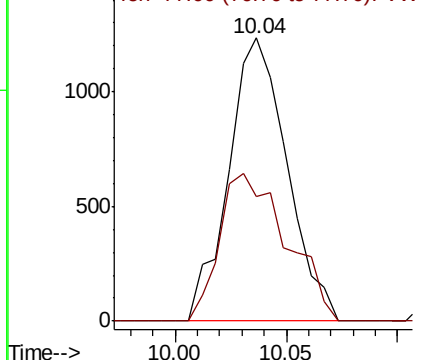
75 100

77 44.1 22.0 40.8#



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW



#47

Tetrachloroethene

Concen: 0.754 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.01 min

Lab File: VW016340.D

Acq: 24 Aug 2020 19:04

Tgt Ion: 164 Resp: 2325

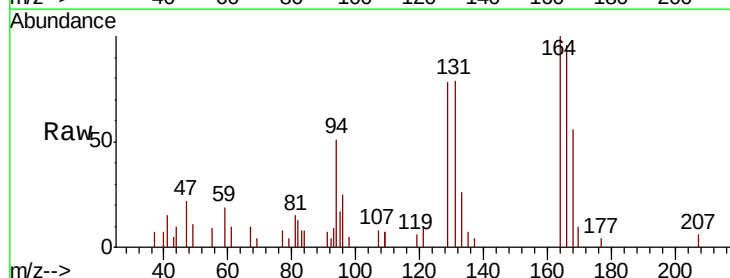
Ion Ratio Lower Upper

164 100

129 78.3 71.5 132.7

131 79.0 67.4 125.2

166 95.7 92.5 171.9

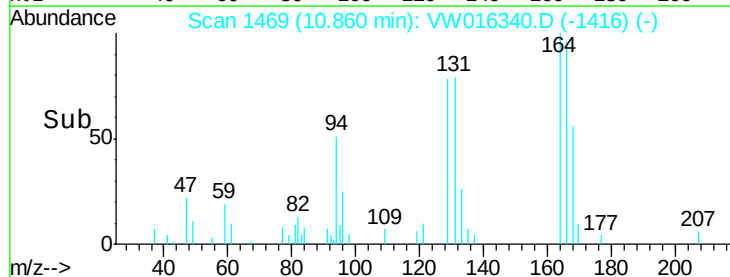
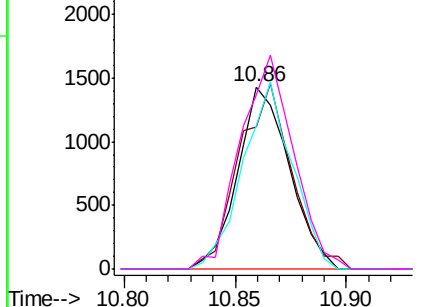


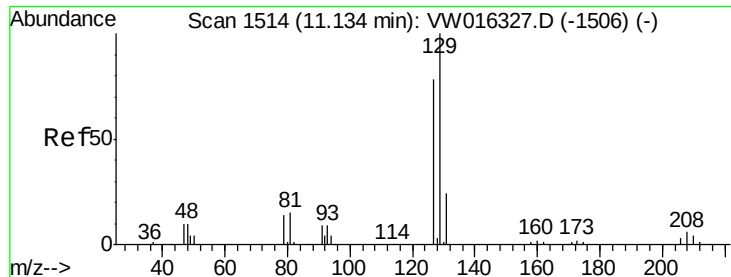
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#50

Dibromochloromethane

Concen: 0.720 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. -0.27 min

Lab File: VW016340.D

Acq: 24 Aug 2020 19:04

Instrument :

MSVOA\_W

ClientSampleId :

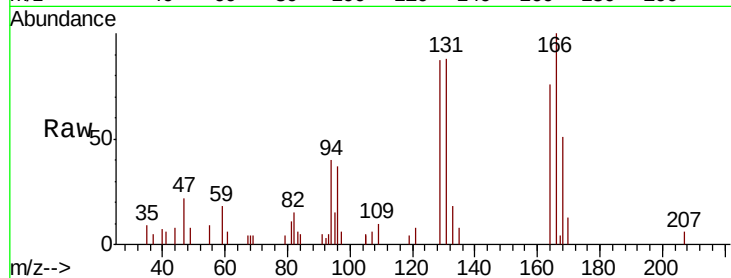
BFS1

Tot Ion:129 Resp: 2403

Ion Ratio Lower Upper

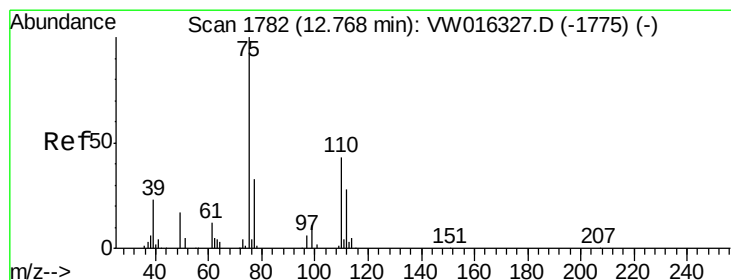
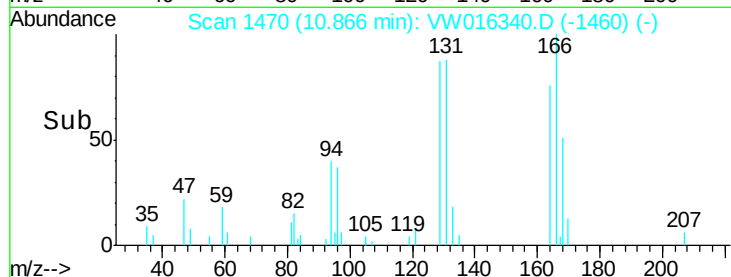
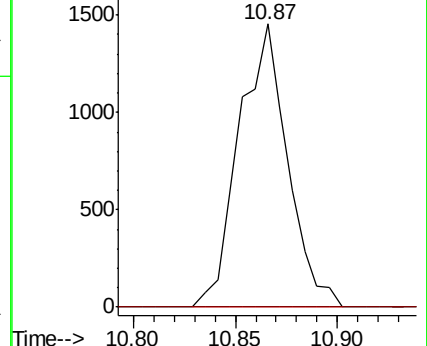
129 100

127 0.0 53.8 99.8#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#59

1,2,3-Trichloropropane

Concen: 5.545 ug/L

RT: 13.55 min Scan# 1911

Delta R.T. 0.79 min

Lab File: VW016340.D

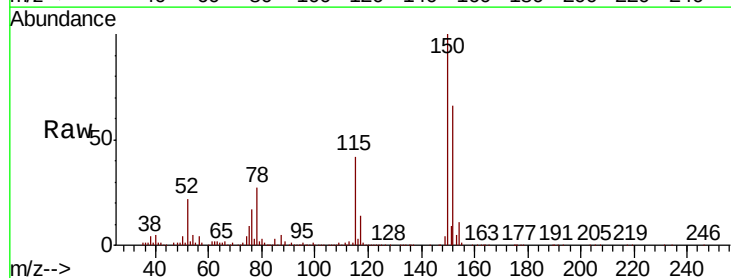
Acq: 24 Aug 2020 19:04

Tgt Ion: 75 Resp: 12844

Ion Ratio Lower Upper

75 100

77 36.6 27.1 40.7



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

