

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV112219\  
 Data File : VV013731.D  
 Acq On : 22 Nov 2019 13:20  
 Operator : SY/MD  
 Sample : VSTDICV005  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VICV31

Quant Time: Nov 22 13:49:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR112219WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Nov 22 12:24:01 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 505711   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 492744   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 265729   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 143315   | 4.58     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 91.60% |
| 7) Chloroethane-d5             | 1.58   | 69    | 122573   | 4.61     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 92.20% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 248690   | 4.72     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 94.40% |
| 20) 2-Butanone-d5              | 3.95   | 46    | 309380   | 47.55    | ug/L | -0.01  |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 95.10% |
| 24) Chloroform-d               | 4.39   | 84    | 288432   | 4.57     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.40% |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 135368   | 4.51     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 90.20% |
| 32) Benzene-d6                 | 5.09   | 84    | 575749   | 4.53     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 90.60% |
| 36) 1,2-Dichloropropane-d6     | 6.11   | 67    | 166886   | 4.41     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 88.20% |
| 41) Toluene-d8                 | 7.35   | 98    | 558622   | 4.68     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.60% |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 65076    | 4.41     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 88.20% |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 260593   | 47.91    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 95.82% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.25  | 84    | 116920   | 4.45     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 89.00% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 218680   | 4.66     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 93.20% |

## Target Compounds

|                                |      |     |        |        | Ovalue    |
|--------------------------------|------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 173007 | 5.137  | ug/L 97   |
| 3) Chloromethane               | 1.25 | 50  | 144251 | 4.877  | ug/L 99   |
| 5) Vinyl chloride              | 1.32 | 62  | 154032 | 5.098  | ug/L 97   |
| 6) Bromomethane                | 1.53 | 94  | 84111  | 5.287  | ug/L 99   |
| 8) Chloroethane                | 1.60 | 64  | 93711  | 5.147  | ug/L 99   |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 237750 | 5.068  | ug/L 98   |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 143353 | 5.142  | ug/L 99   |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 122118 | 5.023  | ug/L 93   |
| 13) Acetone                    | 2.22 | 43  | 226276 | 49.729 | ug/L # 62 |
| 14) Carbon disulfide           | 2.31 | 76  | 283410 | 5.049  | ug/L 98   |
| 15) Methyl Acetate             | 2.47 | 43  | 50067  | 4.915  | ug/L 98   |
| 16) Methylene chloride         | 2.53 | 84  | 154234 | 4.631  | ug/L 98   |
| 17) Methyl tert-butyl Ether    | 2.80 | 73  | 339018 | 5.095  | ug/L 99   |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 138322 | 5.038  | ug/L 99   |
| 19) 1,1-Dichloroethane         | 3.22 | 63  | 282867 | 5.161  | ug/L 97   |
| 21) 2-Butanone                 | 4.04 | 43  | 369583 | 53.735 | ug/L 99   |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 165093 | 5.128  | ug/L 95   |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV112219\  
 Data File : VV013731.D  
 Acq On : 22 Nov 2019 13:20  
 Operator : SY/MD  
 Sample : VSTDICV005  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VICV31

Quant Time: Nov 22 13:49:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR112219WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Nov 22 12:24:01 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.29  | 128  | 71957    | 5.086  | ug/L  | 98       |
| 25) Chloroform                  | 4.42  | 83   | 298092   | 5.130  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.17  | 62   | 170971   | 5.141  | ug/L  | 100      |
| 29) 1,1,1-Trichloroethane       | 4.65  | 97   | 254877   | 5.057  | ug/L  | 99       |
| 30) Cyclohexane                 | 4.72  | 56   | 217080   | 5.155  | ug/L  | 98       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 222601   | 5.020  | ug/L  | 100      |
| 33) Benzene                     | 5.14  | 78   | 614714   | 5.086  | ug/L  | 100      |
| 34) Trichloroethene             | 5.95  | 95   | 166752   | 5.001  | ug/L  | 96       |
| 35) Methylcyclohexane           | 6.17  | 83   | 233296   | 5.244  | ug/L  | 96       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 155427   | 5.003  | ug/L  | 99       |
| 38) Bromodichloromethane        | 6.55  | 83   | 199896   | 4.877  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.06  | 75   | 225723   | 5.121  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone        | 7.27  | 43   | 929824   | 51.299 | ug/L  | 99       |
| 42) Toluene                     | 7.42  | 91   | 686259   | 5.293  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 177464   | 5.144  | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 110826   | 5.006  | ug/L  | 98       |
| 47) Tetrachloroethene           | 8.01  | 164  | 150326   | 5.192  | ug/L  | 97       |
| 48) 2-Hexanone                  | 8.18  | 43   | 687896   | 53.169 | ug/L  | 98       |
| 49) Dibromochloromethane        | 8.28  | 129  | 142328   | 5.013  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.39  | 107  | 100363   | 5.006  | ug/L  | 97       |
| 51) Chlorobenzene               | 8.92  | 112  | 453950   | 5.032  | ug/L  | 98       |
| 52) Ethylbenzene                | 9.05  | 91   | 756395   | 5.371  | ug/L  | 99       |
| 53) m,p-xylene                  | 9.18  | 106  | 293400   | 5.465  | ug/L  | 98       |
| 54) o-xylene                    | 9.58  | 106  | 282905   | 5.397  | ug/L  | 98       |
| 55) Styrene                     | 9.60  | 104  | 493091   | 5.448  | ug/L  | 98       |
| 56) Isopropylbenzene            | 9.97  | 105  | 775315   | 5.428  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.28 | 83   | 122018   | 5.016  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.31 | 75   | 94693    | 4.966  | ug/L  | 97       |
| 61) Bromoform                   | 9.77  | 173  | 87083    | 5.207  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.22 | 146  | 412097   | 5.338  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.31 | 146  | 404401   | 5.147  | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene         | 11.68 | 146  | 369453   | 5.157  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan  | 12.47 | 75   | 19198    | 4.611  | ug/L  | 93       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 340010   | 5.214  | ug/L  | 97       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 283403   | 5.300  | ug/L  | 100      |
| 69) Naphthalene                 | 13.55 | 128  | 371145   | 5.097  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 255060   | 5.235  | ug/L  | 99       |

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

```
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV112219\  
Data File : VV013731.D  
Acq On    : 22 Nov 2019   13:20  
Operator  : SY/MD  
Sample    : VSTDICV005  
Misc      : 25.0mL/MSVOA V/WATER  
ALS Vial  : 8    Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_V  
**ClientSampleId :**  
VICV31

Quant Time: Nov 22 13:49:57 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR112219WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Nov 22 12:24:01 2019  
Response via : Initial Calibration

