

Data File : VU033503.D  
Acq On : 30 Jul 2019 19:34  
Operator : JC/SP  
Sample : MDL03  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Jul 31 08:27:28 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM073119WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Jul 31 08:02:52 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 335040   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 333257   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 165120   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 103457   | 42.47    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 84.94% |
| 7) Chloroethane-d5             | 1.67    | 69    | 89419    | 42.78    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 85.56% |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 144126   | 32.60    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 65.20% |
| 21) 2-Butanone-d5              | 4.15    | 46    | 150580   | 93.33    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 93.33% |
| 24) Chloroform-d               | 4.62    | 84    | 179709   | 44.01    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.02% |
| 26) 1,2-Dichloroethane-d4      | 5.28    | 65    | 118077   | 45.66    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.32% |
| 32) Benzene-d6                 | 5.32    | 84    | 374040   | 45.28    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.56% |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 117891   | 45.52    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 91.04% |
| 41) Toluene-d8                 | 7.55    | 98    | 337103   | 43.54    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 87.08% |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 55940    | 43.55    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 87.10% |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 111555   | 90.73    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 90.73% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 174420   | 43.68    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 87.36% |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 136814   | 45.25    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 90.50% |

#### Target Compounds

|                                |      |     |       |              | Qvalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 7645  | 2.420 ug/L   | 100    |
| 3) Chloromethane               | 1.32 | 50  | 8679  | 2.727 ug/L   | 96     |
| 5) Vinyl chloride              | 1.39 | 62  | 8747  | 2.564 ug/L # | 65     |
| 6) Bromomethane                | 1.62 | 94  | 5574  | 1.852 ug/L   | 93     |
| 8) Chloroethane                | 1.69 | 64  | 5465  | 2.636 ug/L   | 90     |
| 9) Trichlorofluoromethane      | 1.87 | 101 | 11331 | 2.539 ug/L   | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 6804  | 3.007 ug/L # | 82     |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 6715  | 3.095 ug/L # | 1      |
| 13) Acetone                    | 2.31 | 43  | 7728  | 4.682 ug/L   | 99     |
| 14) Carbon disulfide           | 2.46 | 76  | 18008 | 2.646 ug/L   | 96     |
| 15) Methyl Acetate             | 2.60 | 43  | 6216  | 2.365 ug/L   | 97     |
| 16) Methylene chloride         | 2.68 | 84  | 6445  | 2.601 ug/L   | 98     |
| 17) trans-1,2-Dichloroethene   | 2.96 | 96  | 5502  | 2.420 ug/L   | 98     |
| 18) Methyl tert-butyl Ether    | 2.98 | 73  | 15809 | 2.281 ug/L   | 97     |
| 19) 1,1-Dichloroethane         | 3.43 | 63  | 10456 | 2.451 ug/L   | 96     |
| 20) cis-1,2-Dichloroethene     | 4.20 | 96  | 6616  | 2.593 ug/L   | 98     |
| 22) 2-Butanone                 | 4.25 | 43  | 8259  | 4.191 ug/L # | 67     |

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| -----                          |       |      |          |       |        |          |
| 23) Bromochloromethane         | 4.53  | 128  | 3260     | 2.449 | ug/L   | 82       |
| 25) Chloroform                 | 4.65  | 83   | 15630    | 3.481 | ug/L   | 96       |
| 27) 1,2-Dichloroethane         | 5.39  | 62   | 9165     | 2.651 | ug/L   | 96       |
| 29) Cyclohexane                | 4.97  | 56   | 8158     | 2.244 | ug/L   | 99       |
| 30) 1,1,1-Trichloroethane      | 4.89  | 97   | 9244     | 2.411 | ug/L   | 97       |
| 31) Carbon tetrachloride       | 5.11  | 117  | 8033     | 2.406 | ug/L   | 99       |
| 33) Benzene                    | 5.37  | 78   | 24542    | 2.553 | ug/L   | 100      |
| 34) Trichloroethene            | 6.17  | 95   | 6243     | 2.462 | ug/L   | 96       |
| 35) Methylcyclohexane          | 6.39  | 83   | 8921     | 2.254 | ug/L   | 98       |
| 37) 1,2-Dichloropropane        | 6.41  | 63   | 7084     | 2.753 | ug/L # | 92       |
| 38) Bromodichloromethane       | 6.74  | 83   | 7954     | 2.391 | ug/L   | 96       |
| 39) cis-1,3-Dichloropropene    | 7.25  | 75   | 10000    | 2.490 | ug/L   | 96       |
| 40) 4-Methyl-2-pentanone       | 7.44  | 43   | 16509    | 4.646 | ug/L   | 99       |
| 42) Toluene                    | 7.62  | 91   | 25389    | 2.456 | ug/L   | 94       |
| 44) trans-1,3-Dichloropropene  | 7.86  | 75   | 8783m    | 2.420 | ug/L   |          |
| 45) 1,1,2-Trichloroethane      | 8.05  | 97   | 6103     | 2.498 | ug/L   | 94       |
| 46) Tetrachloroethene          | 8.21  | 164  | 5236     | 2.529 | ug/L   | 99       |
| 48) 2-Hexanone                 | 8.35  | 43   | 14174    | 4.935 | ug/L   | 98       |
| 49) Dibromochloromethane       | 8.46  | 129  | 6449     | 2.320 | ug/L   | 96       |
| 50) 1,2-Dibromoethane          | 8.58  | 107  | 6515     | 2.408 | ug/L # | 86       |
| 51) Chlorobenzene              | 9.10  | 112  | 17182    | 2.539 | ug/L   | 95       |
| 52) Ethylbenzene               | 9.23  | 91   | 24614    | 2.211 | ug/L   | 99       |
| 53) m,p-Xylene                 | 9.36  | 106  | 9406     | 2.201 | ug/L   | 98       |
| 54) o-xylene                   | 9.76  | 106  | 8738     | 2.108 | ug/L   | 97       |
| 55) Styrene                    | 9.78  | 104  | 14201    | 2.017 | ug/L   | 96       |
| 56) Isopropylbenzene           | 10.15 | 105  | 22612    | 2.088 | ug/L   | 97       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.44 | 83   | 11592    | 2.631 | ug/L # | 88       |
| 59) 1,2,3-Trichloropropane     | 10.48 | 75   | 8428     | 2.481 | ug/L   | 100      |
| 61) Bromoform                  | 9.94  | 173  | 4578     | 2.295 | ug/L # | 94       |
| 62) 1,3-Dichlorobenzene        | 11.40 | 146  | 12863    | 2.537 | ug/L   | 99       |
| 63) 1,4-Dichlorobenzene        | 11.49 | 146  | 13779    | 2.615 | ug/L   | 95       |
| 65) 1,2-Dichlorobenzene        | 11.86 | 146  | 13966    | 2.724 | ug/L   | 95       |
| 66) 1,2-Dibromo-3-chloropropan | 12.65 | 75   | 2303     | 2.431 | ug/L   | 89       |
| 67) 1,3,5-Trichlorobenzene     | 12.88 | 180  | 9333     | 2.281 | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.49 | 180  | 6862     | 1.963 | ug/L   | 93       |
| 69) Naphthalene                | 13.74 | 128  | 15621    | 1.558 | ug/L   | 94       |
| 70) 1,2,3-Trichlorobenzene     | 13.98 | 180  | 7160     | 1.948 | ug/L   | 97       |
| -----                          |       |      |          |       |        |          |

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

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