Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV110619\
Data File : VV013498.D
Acq On : 06 Nov 2019 15:07
Operator : SY/MD
Sample : MDL01
Misc : 5.0G/5mL/100uL/5.0mL/MSVOA_V/MEOH
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 07 02:58:29 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM110619WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Nov 07 01:53:11 2019
Response via : Initial Calibration

**Instrument :**
MSVOA_V
**ClientSampleId :**
MDL01

**Manual Integrations APPROVED**
MMDadoda
11/7/2019 10:49:33 AM

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Difluorobenzene | 5.66 | 114 | 1005761 | 50.00 | ug/L | 0.00 |
| 28) Chlorobenzene-d5 | 8.89 | 117 | 952127 | 50.00 | ug/L | 0.00 |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152 | 445486 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) Vinyl Chloride-d3 | 1.32 | 65 | 316696 | 53.77 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 60 - 135 | | Recovery = 107.54% | | | |
| 7) Chloroethane-d5 | 1.58 | 69 | 260024 | 54.24 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 130 | | Recovery = 108.48% | | | |
| 11) 1,1-Dichloroethene-d2 | 2.13 | 63 | 429240 | 41.67 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 60 - 125 | | Recovery = 83.34% | | | |
| 21) 2-Butanone-d5 | 3.91 | 46 | 519864 | 119.38 | ug/L | 0.00 |
| Spiked Amount 100.000 | Range 40 - 130 | | Recovery = 119.38% | | | |
| 24) Chloroform-d | 4.39 | 84 | 671137 | 52.49 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 125 | | Recovery = 104.98% | | | |
| 26) 1,2-Dichloroethane-d4 | 5.07 | 65 | 458028 | 54.90 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 125 | | Recovery = 109.80% | | | |
| 32) Benzene-d6 | 5.09 | 84 | 1424203 | 56.08 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 125 | | Recovery = 112.16% | | | |
| 36) 1,2-Dichloropropane-d6 | 6.11 | 67 | 459004 | 55.72 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 120 | | Recovery = 111.44% | | | |
| 41) Toluene-d8 | 7.35 | 98 | 1294442 | 55.40 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 110.80% | | | |
| 43) trans-1,3-Dichloropropene- | 7.66 | 79 | 208771 | 55.15 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 60 - 125 | | Recovery = 110.30% | | | |
| 47) 2-Hexanone-d5 | 8.12 | 63 | 328774 | 110.02 | ug/L | 0.00 |
| Spiked Amount 100.000 | Range 45 - 130 | | Recovery = 110.02% | | | |
| 57) 1,1,2,2-Tetrachloroethane- | 10.25 | 84 | 540977 | 52.27 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 65 - 120 | | Recovery = 104.54% | | | |
| 64) 1,2-Dichlorobenzene-d4 | 11.67 | 152 | 519163 | 58.46 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 116.92% | | | |

| Target Compounds | | | | | | Qvalue |
|---|---|---|---|---|---|---|
| 2) Dichlorodifluoromethane | 1.14 | 85 | 21283 | 2.543 | ug/L | 95 |
| 3) Chloromethane | 1.25 | 50 | 21301 | 2.679 | ug/L | 98 |
| 5) Vinyl chloride | 1.32 | 62 | 19962m | 2.687 | ug/L | |
| 6) Bromomethane | 1.53 | 94 | 8995 | 2.524 | ug/L | 93 |
| 8) Chloroethane | 1.60 | 64 | 10692 | 2.568 | ug/L | 98 |
| 9) Trichlorofluoromethane | 1.77 | 101 | 26461 | 2.683 | ug/L | 99 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 19200 | 3.457 | ug/L # | 82 |
| 12) 1,1-Dichloroethene | 2.14 | 96 | 17875m | 3.371 | ug/L | |
| 13) Acetone | 2.18 | 43 | 21958 | 5.403 | ug/L | 98 |
| 14) Carbon disulfide | 2.32 | 76 | 52809 | 2.846 | ug/L | 99 |
| 15) Methyl Acetate | 2.46 | 43 | 16390 | 2.211 | ug/L | 97 |
| 16) Methylene chloride | 2.53 | 84 | 19802 | 2.760 | ug/L | 94 |
| 17) trans-1,2-Dichloroethene | 2.79 | 96 | 17663 | 2.675 | ug/L | 94 |
| 18) Methyl tert-butyl Ether | 2.80 | 73 | 47031 | 2.336 | ug/L | 99 |
| 19) 1,1-Dichloroethane | 3.23 | 63 | 30769 | 2.444 | ug/L | 98 |
| 20) cis-1,2-Dichloroethene | 3.96 | 96 | 18926m | 2.626 | ug/L | |
| 22) 2-Butanone | 4.03 | 43 | 26961m | 5.008 | ug/L | |

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| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 23) Bromochloromethane | 4.30 | 128 | 8134 | 2.135 ug/L # | 97 |
| 25) Chloroform | 4.42 | 83 | 57766 | 4.460 ug/L | 100 |
| 27) 1,2-Dichloroethane | 5.18 | 62 | 25657 | 2.585 ug/L | 99 |
| 29) Cyclohexane | 4.72 | 56 | 25633 | 2.343 ug/L | 94 |
| 30) 1,1,1-Trichloroethane | 4.66 | 97 | 25475 | 2.404 ug/L | 98 |
| 31) Carbon tetrachloride | 4.87 | 117 | 23087 | 2.443 ug/L | 97 |
| 33) Benzene | 5.14 | 78 | 68970 | 2.551 ug/L | 100 |
| 34) Trichloroethene | 5.96 | 95 | 19376 | 2.697 ug/L | 95 |
| 35) Methylcyclohexane | 6.17 | 83 | 25424 | 2.296 ug/L | 93 |
| 37) 1,2-Dichloropropane | 6.22 | 63 | 17822 | 2.505 ug/L | 97 |
| 38) Bromodichloromethane | 6.55 | 83 | 22341 | 2.387 ug/L | 98 |
| 39) cis-1,3-Dichloropropene | 7.07 | 75 | 26411 | 2.443 ug/L | 100 |
| 40) 4-Methyl-2-pentanone | 7.27 | 43 | 38847 | 4.235 ug/L | 97 |
| 42) Toluene | 7.43 | 91 | 72933 | 2.589 ug/L | 98 |
| 44) trans-1,3-Dichloropropene | 7.69 | 75 | 25333 | 2.693 ug/L | 97 |
| 45) 1,1,2-Trichloroethane | 7.88 | 97 | 16354 | 2.454 ug/L | 97 |
| 46) Tetrachloroethene | 8.02 | 164 | 16553 | 2.700 ug/L | 98 |
| 48) 2-Hexanone | 8.18 | 43 | 61854 | 8.539 ug/L # | 96 |
| 49) Dibromochloromethane | 8.28 | 129 | 18088 | 2.361 ug/L | 92 |
| 50) 1,2-Dibromoethane | 8.39 | 107 | 18097 | 2.588 ug/L | 97 |
| 51) Chlorobenzene | 8.92 | 112 | 50227 | 2.682 ug/L | 96 |
| 52) Ethylbenzene | 9.05 | 91 | 74980 | 2.453 ug/L | 97 |
| 53) m,p-Xylene | 9.18 | 106 | 27938 | 2.408 ug/L | 88 |
| 54) o-xylene | 9.58 | 106 | 24660 | 2.216 ug/L | 100 |
| 55) Styrene | 9.60 | 104 | 39712 | 2.064 ug/L | 99 |
| 56) Isopropylbenzene | 9.97 | 105 | 62134 | 2.126 ug/L | 97 |
| 58) 1,1,2,2-Tetrachloroethane | 10.28 | 83 | 28672 | 2.850 ug/L | 93 |
| 59) 1,2,3-Trichloropropane | 10.32 | 75 | 19732 | 2.355 ug/L | 96 |
| 61) Bromoform | 9.77 | 173 | 12093 | 2.315 ug/L | 98 |
| 62) 1,3-Dichlorobenzene | 11.22 | 146 | 37284 | 2.761 ug/L | 97 |
| 63) 1,4-Dichlorobenzene | 11.31 | 146 | 40988 | 2.931 ug/L | 96 |
| 65) 1,2-Dichlorobenzene | 11.68 | 146 | 39203 | 2.899 ug/L | 94 |
| 66) 1,2-Dibromo-3-chloropropan | 12.47 | 75 | 4756 | 2.550 ug/L | 96 |
| 67) 1,3,5-Trichlorobenzene | 12.69 | 180 | 29890 | 2.834 ug/L | 98 |
| 68) 1,2,4-trichlorobenzene | 13.31 | 180 | 25486 | 2.758 ug/L | 96 |
| 69) Naphthalene | 13.55 | 128 | 55291 | 2.239 ug/L | 99 |
| 70) 1,2,3-Trichlorobenzene | 13.79 | 180 | 25657 | 2.614 ug/L | 98 |

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

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