Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU021020\
Data File : VU036708.D
Acq On : 10 Feb 2020 13:13
Operator : JC/MD
Sample : MDL03
Misc : 5.0g/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** MDL03

**Manual Integrations APPROVED**
MMDadoda
2/12/2020 3:10:05 PM

Quant Time: Feb 11 03:56:36 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM020620W.M
Quant Title : VOC Analysis
QLast Update : Tue Feb 11 03:31:43 2020
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Difluorobenzene | 6.29 | 114 | 255898 | 50.00 | ug/L | 0.00 |
| 28) Chlorobenzene-d5 | 9.45 | 117 | 241449 | 50.00 | ug/L | 0.00 |
| 58) 1,4-Dichlorobenzene-d4 | 11.83 | 152 | 104889 | 50.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) Vinyl Chloride-d3 | 1.61 | 65 | 72660 | 42.57 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 60 - 135 | | Recovery = 85.14% | | | |
| 7) Chloroethane-d5 | 1.93 | 69 | 71464 | 45.16 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 130 | | Recovery = 90.32% | | | |
| 11) 1,1-Dichloroethene-d2 | 2.59 | 63 | 106740 | 33.13 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 60 - 125 | | Recovery = 66.26% | | | |
| 21) 2-Butanone-d5 | 4.68 | 46 | 159482 | 109.53 | ug/L | 0.00 |
| Spiked Amount 100.000 | Range 40 - 130 | | Recovery = 109.53% | | | |
| 24) Chloroform-d | 5.11 | 84 | 143241 | 46.38 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 125 | | Recovery = 92.76% | | | |
| 26) 1,2-Dichloroethane-d4 | 5.75 | 65 | 103527 | 49.01 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 125 | | Recovery = 98.02% | | | |
| 32) Benzene-d6 | 5.77 | 84 | 304737 | 48.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 125 | | Recovery = 96.00% | | | |
| 36) 1,2-Dichloropropane-d6 | 6.73 | 67 | 102040 | 48.42 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 120 | | Recovery = 96.84% | | | |
| 41) Toluene-d8 | 7.93 | 98 | 273655 | 47.08 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.16% | | | |
| 43) trans-1,3-Dichloropropene- | 8.21 | 79 | 46569 | 46.15 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 60 - 125 | | Recovery = 92.30% | | | |
| 47) 2-Hexanone-d5 | 8.67 | 63 | 126533 | 105.21 | ug/L | 0.00 |
| Spiked Amount 100.000 | Range 45 - 130 | | Recovery = 105.21% | | | |
| 56) 1,1,2,2-Tetrachloroethane- | 10.78 | 84 | 152542 | 49.12 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 65 - 120 | | Recovery = 98.24% | | | |
| 66) 1,2-Dichlorobenzene-d4 | 12.21 | 152 | 95408 | 50.07 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 100.14% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.39 | 85 | 4237 | 2.396 | ug/L | 100 |
| 3) Chloromethane | 1.54 | 50 | 5348 | 2.553 | ug/L | 100 |
| 5) Vinyl chloride | 1.62 | 62 | 5228 | 2.317 | ug/L # | 59 |
| 6) Bromomethane | 1.87 | 94 | 3239 | 2.290 | ug/L | 94 |
| 8) Chloroethane | 1.95 | 64 | 3508 | 2.450 | ug/L | 92 |
| 9) Trichlorofluoromethane | 2.16 | 101 | 6083 | 2.269 | ug/L | 95 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 4785 | 2.980 | ug/L # | 83 |
| 12) 1,1-Dichloroethene | 2.61 | 96 | 4475 | 2.863 | ug/L # | 1 |
| 13) Acetone | 2.66 | 43 | 10773 | 6.965 | ug/L | 99 |
| 14) Carbon disulfide | 2.82 | 76 | 11136 | 2.384 | ug/L | 99 |
| 15) Methyl Acetate | 2.99 | 43 | 5993 | 2.680 | ug/L | 96 |
| 16) Methylene chloride | 3.08 | 84 | 5430 | 2.814 | ug/L | 93 |
| 17) trans-1,2-Dichloroethene | 3.39 | 96 | 4058 | 2.440 | ug/L | 93 |
| 18) Methyl tert-butyl Ether | 3.41 | 73 | 13758 | 2.383 | ug/L | 98 |
| 19) 1,1-Dichloroethane | 3.92 | 63 | 7962 | 2.403 | ug/L | 98 |
| 20) cis-1,2-Dichloroethene | 4.71 | 96 | 4618m | 2.437 | ug/L | |
| 22) 2-Butanone | 4.77 | 43 | 9479 | 5.164 | ug/L | 82 |

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Quant Title : VOC Analysis
QLast Update : Tue Feb 11 03:31:43 2020
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 23) Bromochloromethane | 5.03 | 128 | 1972 | 2.221 ug/L | | 88 |
| 25) Chloroform | 5.13 | 83 | 9666 | 2.999 ug/L | | 97 |
| 27) 1,2-Dichloroethane | 5.84 | 62 | 6695 | 2.470 ug/L | # | 94 |
| 29) Cyclohexane | 5.43 | 56 | 6962 | 2.245 ug/L | | 96 |
| 30) 1,1,1-Trichloroethane | 5.36 | 97 | 6238 | 2.432 ug/L | | 98 |
| 31) Carbon tetrachloride | 5.57 | 117 | 4669 | 2.248 ug/L | | 99 |
| 33) Benzene | 5.82 | 78 | 17075 | 2.338 ug/L | | 100 |
| 34) Trichloroethene | 6.58 | 95 | 4393 | 2.433 ug/L | | 96 |
| 35) Methylcyclohexane | 6.80 | 83 | 7618 | 2.395 ug/L | | 98 |
| 37) 1,2-Dichloropropane | 6.83 | 63 | 5028 | 2.553 ug/L | # | 91 |
| 38) Bromodichloromethane | 7.15 | 83 | 5748 | 2.402 ug/L | | 97 |
| 39) cis-1,3-Dichloropropene | 7.64 | 75 | 7142 | 2.270 ug/L | | 99 |
| 40) 4-Methyl-2-pentanone | 7.83 | 43 | 14608 | 4.695 ug/L | | 99 |
| 42) Toluene | 8.00 | 91 | 19422 | 2.461 ug/L | | 100 |
| 44) trans-1,3-Dichloropropene | 8.24 | 75 | 6621 | 2.409 ug/L | | 95 |
| 45) 1,1,2-Trichloroethane | 8.43 | 97 | 4155 | 2.313 ug/L | | 97 |
| 46) Tetrachloroethene | 8.58 | 164 | 3281 | 2.589 ug/L | | 94 |
| 48) 2-Hexanone | 8.72 | 43 | 12567 | 4.951 ug/L | | 95 |
| 49) Dibromochloromethane | 8.84 | 129 | 4043 | 2.301 ug/L | | 96 |
| 50) 1,2-Dibromoethane | 8.95 | 107 | 4436 | 2.350 ug/L | # | 98 |
| 51) Chlorobenzene | 9.47 | 112 | 11224 | 2.362 ug/L | | 99 |
| 52) Ethylbenzene | 9.60 | 91 | 19389 | 2.236 ug/L | | 98 |
| 53) m,p-Xylene | 9.72 | 106 | 7256 | 2.268 ug/L | | 100 |
| 54) o-xylene | 10.13 | 106 | 6730 | 2.124 ug/L | | 99 |
| 55) Styrene | 10.14 | 104 | 10997 | 2.082 ug/L | | 96 |
| 57) 1,1,2,2-Tetrachloroethane | 10.81 | 83 | 7474 | 2.309 ug/L | # | 97 |
| 59) Bromoform | 10.32 | 173 | 2422 | 2.090 ug/L | # | 96 |
| 60) 1,2,3-Trichloropropane | 10.85 | 75 | 6402 | 2.595 ug/L | | 97 |
| 61) Isopropylbenzene | 10.51 | 105 | 18345 | 2.349 ug/L | | 98 |
| 62) 1,3,5-Trimethylbenzene | 11.11 | 105 | 15041 | 2.246 ug/L | | 97 |
| 63) 1,2,4-Trimethylbenzene | 11.49 | 105 | 14377 | 2.150 ug/L | | 96 |
| 64) 1,3-Dichlorobenzene | 11.77 | 146 | 8052 | 2.451 ug/L | | 95 |
| 65) 1,4-Dichlorobenzene | 11.86 | 146 | 7524 | 2.275 ug/L | | 93 |
| 67) 1,2-Dichlorobenzene | 12.23 | 146 | 8331 | 2.505 ug/L | | 99 |
| 68) 1,2-Dibromo-3-chloropropan | 13.01 | 75 | 1668 | 2.366 ug/L | # | 76 |
| 69) 1,3,5-Trichlorobenzene | 13.24 | 180 | 4614 | 2.026 ug/L | | 95 |
| 70) 1,2,4-trichlorobenzene | 13.85 | 180 | 3708 | 1.952 ug/L | | 96 |
| 71) Naphthalene | 14.10 | 128 | 10379 | 1.550 ug/L | | 99 |
| 72) 1,2,3-Trichlorobenzene | 14.34 | 180 | 3590 | 1.897 ug/L | | 94 |

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

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