Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW022020\
Data File : VW015021.D
Acq On : 20 Feb 2020 16:58
Operator : SY/VA
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** VSTD02526

Quant Time: Feb 21 02:00:49 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM020520S.M
Quant Title : VOC Analysis
QLast Update : Fri Feb 21 01:58:19 2020
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Difluorobenzene | 8.84 | 114 | 761660 | 25.00 | ug/L | 0.00 |
| 28) Chlorobenzene-d5 | 11.63 | 117 | 695348 | 25.00 | ug/L | 0.00 |
| 60) 1,4-Dichlorobenzene-d4 | 13.55 | 152 | 318602 | 25.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) Vinyl Chloride-d3 | 2.35 | 65 | 271735 | 21.55 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 30 - 150 | | Recovery = 86.20% | | | |
| 7) Chloroethane-d5 | 2.89 | 69 | 240825 | 23.86 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 30 - 150 | | Recovery = 95.44% | | | |
| 10) 1,1-Dichloroethene-d2 | 4.02 | 63 | 554191 | 24.06 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 45 - 110 | | Recovery = 96.24% | | | |
| 20) 2-Butanone-d5 | 7.07 | 46 | 186972 | 52.84 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 20 - 135 | | Recovery = 105.68% | | | |
| 24) Chloroform-d | 7.65 | 84 | 557688 | 25.79 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 40 - 150 | | Recovery = 103.16% | | | |
| 26) 1,2-Dichloroethane-d4 | 8.30 | 65 | 315550 | 26.37 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 70 - 130 | | Recovery = 105.48% | | | |
| 29) Benzene-d6 | 8.27 | 84 | 1058344 | 23.67 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 20 - 135 | | Recovery = 94.68% | | | |
| 33) 1,2-Dichloropropane-d6 | 9.27 | 67 | 366915 | 25.18 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 70 - 120 | | Recovery = 100.72% | | | |
| 37) Toluene-d8 | 10.32 | 98 | 913001 | 23.20 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 30 - 130 | | Recovery = 92.80% | | | |
| 38) trans-1,3-Dichloropropene- | 10.57 | 79 | 136893 | 23.79 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 30 - 135 | | Recovery = 95.16% | | | |
| 39) 2-Hexanone-d5 | 10.92 | 63 | 134488 | 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 | 272524 | 24.84 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 45 - 120 | | Recovery = 99.36% | | | |
| 61) 1,2-Dichlorobenzene-d4 | 13.85 | 152 | 257716 | 20.86 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 75 - 120 | | Recovery = 83.44% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.01 | 85 | 146908 | 18.761 | ug/L | 89 |
| 3) Chloromethane | 2.21 | 50 | 283403 | 23.885 | ug/L | 99 |
| 5) Vinyl chloride | 2.37 | 62 | 373758 | 24.125 | ug/L | 99 |
| 6) Bromomethane | 2.78 | 94 | 163849 | 21.150 | ug/L | 98 |
| 8) Chloroethane | 2.93 | 64 | 211357 | 24.934 | ug/L | 99 |
| 9) Trichlorofluoromethane | 3.26 | 101 | 173835 | 27.757 | ug/L | 97 |
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.06 | 101 | 268280 | 24.267 | ug/L | 92 |
| 12) 1,1-Dichloroethene | 4.04 | 96 | 243763 | 22.561 | ug/L | 88 |
| 13) Acetone | 4.12 | 43 | 161924 | 44.330 | ug/L | 98 |
| 14) Carbon disulfide | 4.38 | 76 | 761753 | 23.481 | ug/L | 100 |
| 15) Methyl Acetate | 4.67 | 43 | 161719 | 26.905 | ug/L | 94 |
| 16) Methylene chloride | 4.92 | 84 | 293189 | 21.129 | ug/L | 81 |
| 17) Methyl tert-butyl Ether | 5.43 | 73 | 339662 | 24.063 | ug/L | 95 |
| 18) trans-1,2-Dichloroethene | 5.42 | 96 | 250337 | 22.868 | ug/L | 84 |
| 19) 1,1-Dichloroethane | 6.21 | 63 | 597269 | 26.931 | ug/L | 98 |
| 21) 2-Butanone | 7.16 | 43 | 214051 | 50.052 | ug/L | 96 |
| 22) cis-1,2-Dichloroethene | 7.16 | 96 | 276107 | 23.318 | ug/L | 91 |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW022020\
Data File : VW015021.D
Acq On : 20 Feb 2020 16:58
Operator : SY/VA
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** VSTD02526

Quant Time: Feb 21 02:00:49 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM020520S.M
Quant Title : VOC Analysis
QLast Update : Fri Feb 21 01:58:19 2020
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 23) Bromochloromethane | 7.51 | 128 | 106327 | 21.887 ug/L # | 79 |
| 25) Chloroform | 7.67 | 83 | 536924 | 26.355 ug/L | 99 |
| 27) 1,2-Dichloroethane | 8.40 | 62 | 384788 | 27.396 ug/L | 96 |
| 30) Cyclohexane | 7.95 | 56 | 533032 | 25.727 ug/L | 93 |
| 31) 1,1,1-Trichloroethane | 7.87 | 97 | 410055 | 25.863 ug/L | 96 |
| 32) Carbon tetrachloride | 8.07 | 117 | 357702 | 25.098 ug/L | 100 |
| 34) Benzene | 8.32 | 78 | 1216583 | 25.443 ug/L | 100 |
| 35) Trichloroethene | 9.09 | 95 | 280352 | 23.654 ug/L | 94 |
| 36) Methylcyclohexane | 9.34 | 83 | 498289 | 24.135 ug/L | 92 |
| 40) 1,2-Dichloropropane | 9.37 | 63 | 344064 | 26.889 ug/L | 99 |
| 41) Bromodichloromethane | 9.64 | 83 | 379106 | 25.852 ug/L | 99 |
| 42) cis-1,3-Dichloropropene | 10.07 | 75 | 458018 | 25.208 ug/L | 97 |
| 43) 4-Methyl-2-pentanone | 10.21 | 43 | 455712 | 54.313 ug/L # | 94 |
| 44) Toluene | 10.38 | 91 | 1213201 | 24.993 ug/L | 98 |
| 45) trans-1,3-Dichloropropene | 10.60 | 75 | 373269 | 25.511 ug/L | 99 |
| 46) 1,1,2-Trichloroethane | 10.79 | 97 | 197507 | 23.447 ug/L | 95 |
| 47) Tetrachloroethene | 10.86 | 164 | 177487 | 20.380 ug/L | 95 |
| 49) 2-Hexanone | 10.96 | 43 | 324198 | 55.009 ug/L # | 93 |
| 50) Dibromochloromethane | 11.13 | 129 | 208149 | 22.992 ug/L | 97 |
| 51) 1,2-Dibromoethane | 11.23 | 107 | 174196 | 22.226 ug/L | 100 |
| 52) Chlorobenzene | 11.66 | 112 | 675440 | 22.759 ug/L | 94 |
| 53) Ethylbenzene | 11.73 | 91 | 1338340 | 25.202 ug/L | 97 |
| 54) m,p-Xylene | 11.83 | 106 | 468397 | 24.147 ug/L | 94 |
| 55) o-xylene | 12.16 | 106 | 441104 | 23.894 ug/L | 95 |
| 56) Styrene | 12.18 | 104 | 775089 | 24.842 ug/L | 90 |
| 57) Isopropylbenzene | 12.46 | 105 | 1219768 | 24.602 ug/L | 97 |
| 58) 1,1,2,2-Tetrachloroethane | 12.71 | 83 | 263021 | 25.016 ug/L | 95 |
| 59) 1,2,3-Trichloropropane | 12.77 | 75 | 194786 | 24.625 ug/L | 99 |
| 62) Bromoform | 12.35 | 173 | 102865 | 21.180 ug/L | 99 |
| 63) 1,3-Dichlorobenzene | 13.50 | 146 | 474825 | 22.063 ug/L | 96 |
| 64) 1,4-Dichlorobenzene | 13.58 | 146 | 471581 | 21.753 ug/L | 98 |
| 65) 1,2-Dichlorobenzene | 13.87 | 146 | 437920 | 22.247 ug/L | 99 |
| 66) 1,2-Dibromo-3-chloropropan | 14.48 | 75 | 41108 | 24.492 ug/L # | 81 |
| 67) 1,3,5-Trichlorobenzene | 14.63 | 180 | 316322 | 20.522 ug/L | 99 |
| 68) 1,2,4-trichlorobenzene | 15.13 | 180 | 233932 | 19.209 ug/L | 99 |
| 69) Naphthalene | 15.36 | 128 | 469445 | 19.597 ug/L | 99 |
| 70) 1,2,3-Trichlorobenzene | 15.55 | 180 | 214523 | 19.078 ug/L | 97 |

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

Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW022020\
Data File : VW015021.D
Acq On : 20 Feb 2020 16:58
Operator : SY/VA
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** VSTD02526

Quant Time: Feb 21 02:00:49 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM020520S.M
Quant Title : VOC Analysis
QLast Update : Fri Feb 21 01:58:19 2020
Response via : Initial Calibration