Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD041123\
Data File : VD075623.D
Acq On : 11 Apr 2023 16:39
Operator : KP/SY
Sample : VD0411SBSD01
Misc : 5.00G/5.00ml/MSVOA_D/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD0411SBSD01

Quant Time: Apr 12 02:57:05 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D041023S.M
Quant Title : SW846 8260
QLast Update : Tue Apr 11 18:54:55 2023
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.875 | 168 | 198306 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.775 | 114 | 349275 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.587 | 117 | 319289 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.522 | 152 | 155792 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.228 | 65 | 88893 | 54.643 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 109.280% | | | | |
| 35) Dibromofluoromethane | 7.804 | 113 | 106999 | 52.272 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 104.540% | | | | |
| 50) Toluene-d8 | 10.269 | 98 | 410714 | 51.154 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 49 - 140 | | Recovery = 102.300% | | | | |
| 62) 4-Bromofluorobenzene | 12.575 | 95 | 121007 | 48.485 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 25 - 144 | | Recovery = 96.960% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.934 | 85 | 30797 | 21.982 | ug/l | | 92 |
| 3) Chloromethane | 2.146 | 50 | 50066 | 18.201 | ug/l | | 97 |
| 4) Vinyl Chloride | 2.281 | 62 | 69778 | 20.458 | ug/l | | 97 |
| 5) Bromomethane | 2.681 | 94 | 55171 | 20.313 | ug/l | | 97 |
| 6) Chloroethane | 2.834 | 64 | 51380 | 21.475 | ug/l | | 90 |
| 7) Trichlorofluoromethane | 3.169 | 101 | 61390 | 21.100 | ug/l | | 98 |
| 8) Diethyl Ether | 3.599 | 74 | 18383 | 20.456 | ug/l | | 67 |
| 9) 1,1,2-Trichlorotrifluo... | 3.963 | 101 | 41256 | 21.542 | ug/l | | 96 |
| 10) Methyl Iodide | 4.163 | 142 | 47695 | 20.829 | ug/l | | 91 |
| 11) Tert butyl alcohol | 5.052 | 59 | 9653 | 125.511 | ug/l | # | 100 |
| 12) 1,1-Dichloroethene | 3.940 | 96 | 39603 | 21.544 | ug/l | | 83 |
| 13) Acrolein | 3.799 | 56 | 14743 | 122.841 | ug/l | | 100 |
| 14) Allyl chloride | 4.552 | 41 | 34687 | 20.908 | ug/l | # | 84 |
| 15) Acrylonitrile | 5.257 | 53 | 36875 | 107.081 | ug/l | | 97 |
| 16) Acetone | 4.016 | 43 | 33595 | 113.335 | ug/l | | 90 |
| 17) Carbon Disulfide | 4.269 | 76 | 95413 | 20.054 | ug/l | | 99 |
| 18) Methyl Acetate | 4.563 | 43 | 19428 | 21.717 | ug/l | # | 71 |
| 19) Methyl tert-butyl Ether | 5.316 | 73 | 77799 | 20.025 | ug/l | | 96 |
| 20) Methylene Chloride | 4.799 | 84 | 76749 | 26.180 | ug/l | # | 74 |
| 21) trans-1,2-Dichloroethene | 5.310 | 96 | 45122 | 20.795 | ug/l | # | 78 |
| 22) Diisopropyl ether | 6.216 | 45 | 87565 | 21.517 | ug/l | # | 92 |
| 23) Vinyl Acetate | 6.157 | 43 | 203998 | 106.802 | ug/l | # | 90 |
| 24) 1,1-Dichloroethane | 6.110 | 63 | 71791 | 21.362 | ug/l | | 99 |
| 25) 2-Butanone | 7.081 | 43 | 41415 | 107.659 | ug/l | # | 67 |
| 26) 2,2-Dichloropropane | 7.075 | 77 | 65481 | 21.240 | ug/l | | 93 |
| 27) cis-1,2-Dichloroethene | 7.075 | 96 | 52035 | 20.368 | ug/l | | 82 |
| 28) Bromochloromethane | 7.428 | 49 | 25781 | 22.452 | ug/l | # | 52 |
| 29) Tetrahydrofuran | 7.446 | 42 | 21962 | 107.808 | ug/l | # | 54 |
| 30) Chloroform | 7.598 | 83 | 80181 | 20.972 | ug/l | | 99 |
| 31) Cyclohexane | 7.881 | 56 | 46642 | 19.707 | ug/l | # | 64 |
| 32) 1,1,1-Trichloroethane | 7.793 | 97 | 66715 | 20.968 | ug/l | | 96 |
| 36) 1,1-Dichloropropene | 8.010 | 75 | 55300 | 21.154 | ug/l | | 97 |
| 37) Ethyl Acetate | 7.163 | 43 | 17938 | 22.823 | ug/l | # | 77 |
| 38) Carbon Tetrachloride | 7.993 | 117 | 51760 | 20.646 | ug/l | | 91 |
| 39) Methylcyclohexane | 9.275 | 83 | 58663 | 18.845 | ug/l | | 90 |
| 40) Benzene | 8.251 | 78 | 177345 | 21.053 | ug/l | | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD041123\
Data File : VD075623.D
Acq On : 11 Apr 2023 16:39
Operator : KP/SY
Sample : VD0411SBSD01
Misc : 5.00G/5.00ml/MSVOA_D/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD0411SBSD01

Quant Time: Apr 12 02:57:05 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D041023S.M
Quant Title : SW846 8260
QLast Update : Tue Apr 11 18:54:55 2023
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.399 | 41 | 9077 | 21.088 | ug/l | # | 64 |
| 42) 1,2-Dichloroethane | 8.322 | 62 | 42246 | 21.585 | ug/l | | 88 |
| 43) Isopropyl Acetate | 8.357 | 43 | 32175 | 21.444 | ug/l | # | 76 |
| 44) Trichloroethene | 9.028 | 130 | 48801 | 19.779 | ug/l | | 96 |
| 45) 1,2-Dichloropropane | 9.304 | 63 | 41547 | 21.143 | ug/l | | 98 |
| 46) Dibromomethane | 9.398 | 93 | 25432 | 20.844 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.587 | 83 | 62101 | 21.047 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.381 | 41 | 12996 | 19.113 | ug/l | # | 57 |
| 49) 1,4-Dioxane | 9.387 | 88 | 5130 | 463.833 | ug/l | # | 75 |
| 51) 4-Methyl-2-Pentanone | 10.163 | 43 | 85143 | 105.415 | ug/l | # | 79 |
| 52) Toluene | 10.334 | 92 | 115094 | 20.230 | ug/l | | 96 |
| 53) t-1,3-Dichloropropene | 10.551 | 75 | 54081 | 20.222 | ug/l | | 91 |
| 54) cis-1,3-Dichloropropene | 10.016 | 75 | 64977 | 19.982 | ug/l | # | 75 |
| 55) 1,1,2-Trichloroethane | 10.734 | 97 | 36216 | 20.129 | ug/l | | 90 |
| 56) Ethyl methacrylate | 10.598 | 69 | 34607 | 19.955 | ug/l | # | 66 |
| 57) 1,3-Dichloropropane | 10.881 | 76 | 55724 | 20.569 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.869 | 63 | 85129 | 101.528 | ug/l | # | 84 |
| 59) 2-Hexanone | 10.922 | 43 | 60614 | 106.525 | ug/l | | 72 |
| 60) Dibromochloromethane | 11.075 | 129 | 42895 | 19.968 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.181 | 107 | 33907 | 19.718 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.810 | 164 | 40575 | 21.128 | ug/l | | 92 |
| 65) Chlorobenzene | 11.610 | 112 | 126401 | 20.395 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131 | 45071 | 20.564 | ug/l | | 95 |
| 67) Ethyl Benzene | 11.687 | 91 | 208272 | 20.367 | ug/l | | 96 |
| 68) m/p-Xylenes | 11.798 | 106 | 172849 | 41.039 | ug/l | | 90 |
| 69) o-Xylene | 12.122 | 106 | 76563 | 19.449 | ug/l | | 93 |
| 70) Styrene | 12.139 | 104 | 135643 | 19.791 | ug/l | | 94 |
| 71) Bromoform | 12.304 | 173 | 24463 | 21.595 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.422 | 105 | 199715 | 20.658 | ug/l | | 99 |
| 74) N-amyl acetate | 12.239 | 43 | 28574 | 21.074 | ug/l | # | 72 |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83 | 40467 | 22.378 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.728 | 75 | 22954m | 18.826 | ug/l | | |
| 77) Bromobenzene | 12.704 | 156 | 50258 | 20.596 | ug/l | | 93 |
| 78) n-propylbenzene | 12.763 | 91 | 247448 | 21.288 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 12.851 | 91 | 137443 | 21.379 | ug/l | | 93 |
| 80) 1,3,5-Trimethylbenzene | 12.904 | 105 | 167471 | 21.152 | ug/l | | 96 |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75 | 11581 | 21.769 | ug/l | # | 73 |
| 82) 4-Chlorotoluene | 12.951 | 91 | 144867 | 21.723 | ug/l | | 93 |
| 83) tert-Butylbenzene | 13.169 | 119 | 137507 | 20.002 | ug/l | | 95 |
| 84) 1,2,4-Trimethylbenzene | 13.216 | 105 | 171148 | 21.405 | ug/l | | 95 |
| 85) sec-Butylbenzene | 13.345 | 105 | 221926 | 21.124 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 13.463 | 119 | 182927 | 20.714 | ug/l | | 96 |
| 87) 1,3-Dichlorobenzene | 13.463 | 146 | 103708 | 20.352 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.539 | 146 | 102372 | 20.314 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.792 | 91 | 168108 | 20.937 | ug/l | | 98 |
| 90) Hexachloroethane | 14.057 | 117 | 36550 | 21.880 | ug/l | | 95 |
| 91) 1,2-Dichlorobenzene | 13.833 | 146 | 88833 | 20.224 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.451 | 75 | 5068 | 22.405 | ug/l | | 72 |
| 93) 1,2,4-Trichlorobenzene | 15.098 | 180 | 47940 | 20.578 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.204 | 225 | 23493 | 21.290 | ug/l | | 98 |
| 95) Naphthalene | 15.333 | 128 | 90730 | 20.511 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.522 | 180 | 43227 | 20.943 | ug/l | | 97 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD041123\
Data File : VD075623.D
Acq On : 11 Apr 2023 16:39
Operator : KP/SY
Sample : VD0411SBSD01
Misc : 5.00G/5.00ml/MSVOA_D/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD0411SBSD01

Quant Time: Apr 12 02:57:05 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D041023S.M
Quant Title : SW846 8260
QLast Update : Tue Apr 11 18:54:55 2023
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD041123\
Data File : VD075623.D
Acq On : 11 Apr 2023 16:39
Operator : KP/SY
Sample : VD0411SBSD01
Misc : 5.00G/5.00ml/MSVOA_D/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_D
**ClientSampleId :**
VD0411SBSD01

Quant Time: Apr 12 02:57:05 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D041023S.M
Quant Title : SW846 8260
QLast Update : Tue Apr 11 18:54:55 2023
Response via : Initial Calibration