

| Variable | Tests of Normality (all data) | | |
|----------------|-------------------------------|----------|----------|
| | N | W | p |
| Diff HYDS-PSMS | 359 | 0.207911 | 0.000000 |
| Diff RCS-RPPS | 457 | 0.479420 | 0.000000 |
| Diff PSMS-RPPS | 471 | 0.181636 | 0.000000 |
| Diff PDBS-SNAP | 72 | 0.639571 | 0.000000 |
| Diff PDBS-RPPS | 232 | 0.140564 | 0.000000 |
| Diff PDBS-RCS | 122 | 0.508494 | 0.000000 |
| Diff PDBS-PSMS | 120 | 0.134610 | 0.000000 |
| Diff LOW-3VOL | 379 | 0.324959 | 0.000000 |
| Diff HYDS-RPPS | 413 | 0.376365 | 0.000000 |
| Diff HYDS-RCS | 49 | 0.675142 | 0.000000 |
| Diff HYDS-PDBS | 95 | 0.174442 | 0.000000 |
| Diff RPPS-SNAP | 134 | 0.331255 | 0.000000 |
| Diff RCS-SNAP | 132 | 0.309650 | 0.000000 |
| Diff LOW-RPPS | 336 | 0.371509 | 0.000000 |
| Diff LOW-RCS | 168 | 0.343908 | 0.000000 |
| Diff LOW-PSMS | 171 | 0.408493 | 0.000000 |
| Diff LOW-PDBS | 92 | 0.213818 | 0.000000 |
| Diff LOW-HYDS | 175 | 0.399935 | 0.000000 |
| Diff LOW-SNAP | 52 | 0.320145 | 0.000000 |
| Diff 3VOL-SNAP | 53 | 0.442874 | 0.000000 |
| Diff 3VOL-RPPS | 338 | 0.371674 | 0.000000 |
| Diff 3VOL-RCS | 168 | 0.330953 | 0.000000 |
| Diff 3VOL-PSMS | 173 | 0.426624 | 0.000000 |
| Diff 3VOL-PDBS | 99 | 0.140788 | 0.000000 |
| Diff 3VOL-HYDS | 180 | 0.398324 | 0.000000 |

| Variable | Tests of Normality (Anions) | | |
|----------------|-----------------------------|----------|----------|
| | N | W | p |
| Diff 3VOL-HYDS | 18 | 0.797922 | 0.001420 |
| Diff 3VOL-PSMS | 17 | 0.829237 | 0.005256 |
| Diff 3VOL-RCS | 24 | 0.574926 | 0.000000 |
| Diff 3VOL-RPPS | 42 | 0.761640 | 0.000001 |
| Diff 3VOL-SNAP | 19 | 0.757258 | 0.000292 |
| Diff HYDS-PSMS | 44 | 0.318190 | 0.000000 |
| Diff HYDS-RPPS | 49 | 0.810167 | 0.000002 |
| Diff LOW-3VOL | 42 | 0.586786 | 0.000000 |
| Diff LOW-HYDS | 18 | 0.725312 | 0.000160 |
| Diff LOW-PSMS | 16 | 0.818533 | 0.004852 |
| Diff LOW-RCS | 24 | 0.827937 | 0.000875 |
| Diff LOW-RPPS | 41 | 0.840622 | 0.000044 |
| Diff LOW-SNAP | 19 | 0.566944 | 0.000002 |
| Diff PSMS-RPPS | 50 | 0.358986 | 0.000000 |
| Diff RCS-RPPS | 70 | 0.734002 | 0.000000 |
| Diff RCS-SNAP | 57 | 0.487590 | 0.000000 |
| Diff RPPS-SNAP | 59 | 0.531978 | 0.000000 |

| Variable | Tests of Normality (Dioxane) | | |
|----------------|------------------------------|-----------------|-----------------|
| | N | W | p |
| Diff 3VOL-SNAP | 3 | 0.968474 | 0.659086 |
| Diff HYDS-PSMS | 6 | <i>0.776920</i> | <i>0.036074</i> |
| Diff HYDS-RPPS | 7 | <i>0.649894</i> | <i>0.001026</i> |
| Diff LOW-3VOL | 7 | <i>0.618747</i> | <i>0.000451</i> |
| Diff LOW-HYDS | 3 | 0.933702 | 0.502637 |
| Diff LOW-PSMS | 4 | 0.888178 | 0.374739 |
| Diff LOW-RCS | 3 | 0.750000 | |
| Diff LOW-RPPS | 7 | 0.882430 | 0.237454 |
| Diff LOW-SNAP | 3 | 0.780873 | 0.069610 |
| Diff PSMS-RPPS | 9 | 0.853420 | 0.081258 |
| Diff RCS-RPPS | 9 | <i>0.639863</i> | <i>0.000281</i> |
| Diff RCS-SNAP | 6 | <i>0.788654</i> | <i>0.046349</i> |
| Diff RPPS-SNAP | 9 | <i>0.761860</i> | <i>0.007438</i> |
| Diff 3VOL-HYDS | 3 | 0.940317 | 0.528648 |
| Diff 3VOL-PSMS | 4 | 0.861341 | 0.265042 |
| Diff 3VOL-RCS | 3 | 0.927386 | 0.478910 |
| Diff 3VOL-RPPS | 7 | <i>0.708130</i> | <i>0.004545</i> |
| Diff PSMS-SNAP | 6 | <i>0.778000</i> | <i>0.036924</i> |

| Variable | Tests of Normality (Hex Chrome) | | |
|----------------|---------------------------------|-----------------|-----------------|
| | N | W | p |
| Diff 3VOL-HYDS | 7 | 0.928093 | 0.534800 |
| Diff 3VOL-PSMS | 5 | 0.945728 | 0.706666 |
| Diff 3VOL-RCS | 8 | <i>0.788407</i> | <i>0.021483</i> |
| Diff 3VOL-RPPS | 14 | 0.943029 | 0.458508 |
| Diff HYDS-PSMS | 16 | <i>0.645369</i> | <i>0.000045</i> |
| Diff HYDS-RCS | 3 | 0.991758 | 0.826375 |
| Diff HYDS-RPPS | 18 | 0.918487 | 0.121534 |
| Diff LOW-3VOL | 13 | 0.954328 | 0.665058 |
| Diff LOW-HYDS | 7 | 0.820156 | 0.064440 |
| Diff LOW-PSMS | 5 | 0.978927 | 0.928800 |
| Diff LOW-RCS | 8 | 0.928453 | 0.502098 |
| Diff LOW-RPPS | 14 | 0.963886 | 0.786192 |
| Diff PSMS-RPPS | 21 | <i>0.789878</i> | <i>0.000461</i> |
| Diff RCS-RPPS | 24 | <i>0.864856</i> | <i>0.004178</i> |

| Variable | Tests of Normality (Metals) | | |
|----------------|-----------------------------|-----------------|-----------------|
| | N | W | p |
| Diff RCS-RPPS | 243 | <i>0.585240</i> | <i>0.000000</i> |
| Diff 3VOL-HYDS | 108 | <i>0.479546</i> | <i>0.000000</i> |
| Diff 3VOL-PSMS | 100 | <i>0.430403</i> | <i>0.000000</i> |
| Diff 3VOL-RCS | 90 | <i>0.360893</i> | <i>0.000000</i> |
| Diff 3VOL-RPPS | 192 | <i>0.369943</i> | <i>0.000000</i> |
| Diff HYDS-PSMS | 203 | <i>0.372468</i> | <i>0.000000</i> |
| Diff HYDS-RCS | 46 | <i>0.695129</i> | <i>0.000000</i> |
| Diff HYDS-RPPS | 256 | <i>0.300876</i> | <i>0.000000</i> |
| Diff LOW-3VOL | 230 | <i>0.364974</i> | <i>0.000000</i> |
| Diff LOW-HYDS | 107 | <i>0.411653</i> | <i>0.000000</i> |
| Diff LOW-PSMS | 104 | <i>0.428014</i> | <i>0.000000</i> |
| Diff LOW-RCS | 92 | <i>0.397665</i> | <i>0.000000</i> |
| Diff LOW-RPPS | 198 | <i>0.401012</i> | <i>0.000000</i> |
| Diff PSMS-RPPS | 288 | <i>0.513884</i> | <i>0.000000</i> |

| Variable | Tests of Normality (VOCs) | | |
|----------------|---------------------------|----------|----------|
| | N | W | p |
| Diff 3VOL-HYDS | 44 | 0.155558 | 0.000000 |
| Diff 3VOL-PDBS | 99 | 0.140788 | 0.000000 |
| Diff 3VOL-PSMS | 47 | 0.150172 | 0.000000 |
| Diff 3VOL-RCS | 43 | 0.622475 | 0.000000 |
| Diff 3VOL-RPPS | 83 | 0.120578 | 0.000000 |
| Diff 3VOL-SNAP | 31 | 0.617451 | 0.000000 |
| Diff HYDS-PDBS | 95 | 0.174442 | 0.000000 |
| Diff HYDS-PSMS | 90 | 0.141699 | 0.000000 |
| Diff HYDS-RPPS | 83 | 0.190975 | 0.000000 |
| Diff LOW-3VOL | 87 | 0.165826 | 0.000000 |
| Diff LOW-HYDS | 40 | 0.151461 | 0.000000 |
| Diff LOW-PDBS | 92 | 0.213818 | 0.000000 |
| Diff LOW-PSMS | 42 | 0.148461 | 0.000000 |
| Diff LOW-RCS | 41 | 0.587885 | 0.000000 |
| Diff LOW-RPPS | 76 | 0.120668 | 0.000000 |
| Diff LOW-SNAP | 30 | 0.546677 | 0.000000 |
| Diff PDBS-PSMS | 120 | 0.134610 | 0.000000 |
| Diff PDBS-RCS | 122 | 0.508494 | 0.000000 |
| Diff PDBS-RPPS | 232 | 0.140564 | 0.000000 |
| Diff PDBS-SNAP | 72 | 0.639571 | 0.000000 |
| Diff PSMS-RPPS | 103 | 0.116578 | 0.000000 |
| Diff RCS-RPPS | 111 | 0.533069 | 0.000000 |
| Diff RCS-SNAP | 69 | 0.607840 | 0.000000 |
| Diff RPPS-SNAP | 66 | 0.609977 | 0.000000 |

| Variable | Tests of Normality (Individual Data Sets) | | |
|----------------|---|----------|----------|
| | N | W | p |
| 3VOL - ALL | 444 | 0.434247 | 0.000000 |
| HYDS - ALL | 468 | 0.494939 | 0.000000 |
| MICRO - ALL | 467 | 0.442800 | 0.000000 |
| PDBS - ALL | 315 | 0.079462 | 0.000000 |
| PSMS - ALL | 525 | 0.467611 | 0.000000 |
| RCS - ALL | 616 | 0.424876 | 0.000000 |
| RPPS - ALL | 1133 | 0.442326 | 0.000000 |
| SNAP - ALL | 183 | 0.386064 | 0.000000 |
| 3VOL - DIOX | 9 | 0.600951 | 0.000098 |
| HYDS - DIOX | 7 | 0.556790 | 0.000083 |
| MICRO - DIOX | 9 | 0.654885 | 0.000421 |
| PDBS - DIOX | 0 | | |
| PSMS - DIOX | 9 | 0.772892 | 0.009975 |
| RCS - DIOX | 9 | 0.710241 | 0.001869 |
| RPPS - DIOX | 19 | 0.638761 | 0.000011 |
| SNAP - DIOX | 9 | 0.700835 | 0.001451 |
| 3VOL - ANION | 55 | 0.698086 | 0.000000 |
| HYDS - ANION | 51 | 0.806745 | 0.000001 |
| MICRO - ANION | 55 | 0.759596 | 0.000000 |
| PDBS - ANION | 0 | | |
| PSMS - ANION | 57 | 0.821963 | 0.000001 |
| RCS - ANION | 81 | 0.630138 | 0.000000 |
| RPPS - ANION | 136 | 0.727464 | 0.000000 |
| SNAP - ANION | 69 | 0.581025 | 0.000000 |
| 3VOL - CR6 | 16 | 0.963728 | 0.729627 |
| HYDS - CR6 | 19 | 0.790537 | 0.000836 |
| MICRO - CR6 | 16 | 0.922202 | 0.183009 |
| PDBS - CR6 | 0 | | |
| PSMS - CR6 | 19 | 0.869825 | 0.014343 |
| RCS - CR6 | 25 | 0.959399 | 0.402640 |
| RPPS - CR6 | 45 | 0.890431 | 0.000484 |
| SNAP - CR6 | 0 | | |
| 3VOL - METALS | 269 | 0.437528 | 0.000000 |
| HYDS - METALS | 291 | 0.506917 | 0.000000 |
| MICRO - METALS | 275 | 0.449299 | 0.000000 |
| PDBS - METALS | 0 | | |
| PSMS - METALS | 326 | 0.467599 | 0.000000 |
| RCS - METALS | 344 | 0.461029 | 0.000000 |
| RPPS - METALS | 680 | 0.453805 | 0.000000 |
| SNAP - METALS | 0 | | |
| 3VOL - VOCs | 95 | 0.089083 | 0.000000 |
| HYDS - VOCs | 100 | 0.165917 | 0.000000 |
| MICRO - VOCs | 112 | 0.084841 | 0.000000 |
| PDBS - VOCs | 315 | 0.079462 | 0.000000 |
| PSMS - VOCs | 114 | 0.154890 | 0.000000 |
| RCS - VOCs | 157 | 0.425247 | 0.000000 |
| RPPS - VOCs | 253 | 0.092162 | 0.000000 |
| SNAP - VOCs | 105 | 0.478985 | 0.000000 |