| Trait | Term | Degrees of freedom | Sum of squares | Mean squares | F-statistic | p-value |
| --- | --- | --- | --- | --- | --- | --- |
| Surface area (mm²) | Species | 8 | 1371.10 | 171.39 | 60.25 | **<0.001** |
| Residuals | 235 | 668.45 | 2.84 |  |  |
| Surface area:volume (mm²/mL) | Species | 8 | 296.03 | 37.00 | 39.76 | **<0.001** |
| Residuals | 235 | 218.71 | 0.93 |  |  |
| Surface area:dry weight (mm²/dry mg) | Species | 8 | 347.17 | 43.40 | 46.34 | **<0.001** |
| Residuals | 235 | 220.06 | 0.94 |  |  |
| Surface area:perimeter (mm²/mm) | Species | 8 | 349.18 | 43.65 | 469.03 | **<0.001** |
| Residuals | 235 | 21.87 | 0.09 |  |  |