**Supplementary Table S4**. Summary for ANOVA testing for the individual and interactive effects of virus, *Varroa* status and taxon on viral abundance (RPKM) in insects in Hawaii.

|  |  |  |  |
| --- | --- | --- | --- |
| **Fixed effects** | **Df** | **P** | **Significance** |
| virus | 16 | < 2.2e-16 | \*\*\* |
| *Varroa*\_status | 1 | 0.003386 | \*\* |
| taxon | 7 | 4.113e-12 | \*\*\* |
| virus:*Varroa*\_status | 16 | 1.185e-15 | \*\*\* |
| virus:taxon | 112 | < 2.2e-16 | \*\*\* |
| *Varroa*\_status:taxon | 7 | 2.555e-08 | \*\*\* |
| Virus: *Varroa* status: taxon | 112 | < 2.2e-16 | \*\*\* |