**Supplementary Table S3** Summary of factorial ANOVA (univariate) testing the combined effect between halocarbon emission rates and Fv/Fm of *Synechococcus* sp., *Parachlorella* sp. and *Amphora* sp.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Source of variation | SS | Degree of freedom, df | Mean square, MS | F-ratio | *P* values |
| *Univariate tests of significance for emission rate of the five halocarbons normalized to chl* a *from the three microalgae under different irradiance levels* |
|  |
| Species | 0.009 | 2 | 0.005 | 269.557 | 0.000 |
| Light level | 0.010 | 2 | 0.005 | 303.913 | 0.000 |
| Compound | 0.010 | 4 | 0.002 | 145.023 | 0.000 |
| Species\*Light level | 0.011 | 4 | 0.003 | 165.062 | 0.000 |
| Species\*Compound | 0.005 | 8 | 0.001 | 39.347 | 0.000 |
| Light level\*Compound | 0.005 | 8 | 0.001 | 38.586 | 0.000 |
| Species\*Light level\*Compound | 0.014 | 16 | 0.001 | 50.103 | 0.000 |
|  |
| *Univariate tests of significance for Fv/Fm after 12-hour light exposure from the three microalgae under different irradiance levels* |
|  |
| Species | 1.923 | 2 | 0.961 | 88151 | 0.000 |
| Light level | 0.394 | 2 | 0.197 | 18041 | 0.000 |
| Species\*Light level | 0.024 | 4 | 0.006 | 555 | 0.000 |
|  |

Data normalized to chl *a* under different irradiance levels of 0, 40 and 120 μmol photons m-2 s-1.