Online Resource 7: Composition of volatiles emitted by mock plants (Mock), jasmonic acid-treated plants (JA), mock plants followed by *Diatraea saccharalis* damage (Mock + DS) and jasmonic-acid treated plants followed by *Diatraea saccharalis* damage (JA+DS). Relative amounts (mean ± SE in ng.100g-1 dry plant tissue) were estimated based on internal standard

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Calculated Kovats Index | Mock | JA | Mock + DS | JA + DS |
| *Alcohols* |  |  |  |  |  |
| Phenylmethanol | 1034 | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.0 | 83.0 ± 1.9 |
| 2-Phenylethanol | 1081 | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.0 | 96.0 ± 4.3 |
| *Total Alcohols* |  | 0.0 ± 0.0 **a** | 0.0 ± 0.0 **a** | 0.0 ± 0.0 **a** | 179.6 ± 4.6 **b** |
| *Benzenoids* |  |  |  |  |  |
| Methyl salicylate **I** | 1192 | 0.0 ± 0.0 | 0.0 ± 0.0 | 87.4 ± 0.5 | 0.0 ± 0.0 |
| 1H-indole **I** | 1294 | 0.0 ± 0.0 | 84.4 ± 16.9 | 0.0 ± 0.0 | 343.9 ± 85.7 |
| *Total benzenoids* |  | 0.0 ± 0.0 **a** | 84.4 ± 16.9 **ab** | 87.4 ± 0.5 **a** | 343.9 ± 85.7**c** |
| *Ester* |  |  |  |  |  |
| Methyl anthranilate | 1342 | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.0 | 120.9 ± 5.1 |
| *Total ester* |  | 0.0 ± 0.0 **a** | 0.0 ± 0.0 **a** | 0.0 ± 0.0 **a** | 120.9 ± 5.1 **b** |
| *Sesquiterpenes* |  |  |  |  |  |
| Cyclosativene | 1368 | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.0 | 118.3 ± 4.4 |
| α-copaene **I** | 1379 | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.0 | 118.3 ± 4.4 |
| β-elemene | 1394 | 0.0 ± 0.0 | 111.0 ± 0.6 | 0.0 ± 0.0 | 128.1 ± 4.5 |
| α-bergamotene | 1405 | 0.0 ± 0.0 | 187.0 ± 26.6 | 0.0 ± 0.0 | 246.3 ± 12.8 |
| β-caryophyllene **I** | 1422 | 0.0 ± 0.0 | 154.8 ± 12.2 | 122.3 ± 3.8 | 509.2 ± 87.8 |
| trans-β-farnesene **I** | 1456 | 0.0 ± 0.0 | 205.0 ± 32.9 | 0.0 ± 0.0 | 329.4 ± 40.5 |
| β-ionone | 1489 | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.0 | 126.3 ± 2.1 |
| Zingiberene | 1495 | 0.0 ± 0.0 | 114.4 ± 2.3 | 0.0 ± 0.0 | 355.6 ± 7.4 |
| β-bisabollene | 1513 | 0.0 ± 0.0 | 125.6 ± 0.9 | 0.0 ± 0.0 | 134.4 ± 5.0 |
| β-sesquiphellandrene | 1535 | 0.0 ± 0.0 | 266.3 ± 10.5 | 0.0 ± 0.0 | 307.6 ± 7.0 |
| Caryophyllene oxide **I** | 1580 | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.0 | 149.2 ± 5.0 |
| *Total sesquiterpenes* |  | 0.0 ± 0.0 **a** | 1272.7 ± 80.7 **b** | 122.3 ± 3.8 **a** | 2426.5 ± 127.5 **c** |
| *Total emissions* |  | 0.0 ± 0.0 **a** | 1227.2 ± 86.9 **b** | 209.8 ± 4.0 **a** | 2698.1 ± 199.6 **c** |

Same letters indicate no difference at 5% significance, according to generalised linear model followed by Tukey’s test for pairwise comparisons

**I** indicates recognition by synthetic standard