Online Resource 5: Composition of volatiles from mock sugarcane plants after 24, 48 and 72 h and from jasmonic-acid treated plants (JA) after 24, 48 and 72 h. Relative amounts (mean ± SE in ng.100g-1 of dry plant tissue) were estimated based on internal standard.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Calculated Kovats Index | Mock **A** | | | JA **B** | | |
|  | 24h | 48h | 72h | 24h | 48h | 72h |
| *Benzenoid* |  | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.0 | 82.8 ± 16.6 | 0.0 ± 0.0 | 0.0 ± 0.0 |
| 1H-Indole\* **I** | 1294 | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.0 | 82.8 ± 16.6 | 0.0 ± 0.0 | 0.0 ± 0.0 |
| *Ester* |  | 44.8 ± 9.3 | 33.1 ± 10.5 | 41.8 ± 8.4 | 56.9 ± 6.1 | 50.1 ± 1.3 | 49.2 ± 0.5 |
| Methyl anthralite\* | 1342 | 44.8 ± 9.3 | 33.1 ± 10.5 | 41.8 ± 8.4 | 56.9 ± 6.1 | 50.1 ± 1.3 | 49.2 ± 0.5 |
| *Sesquiterpene* |  | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.0 | 1090.8 ± 172.9 | 403.2 ± 44.7 | 191.3 ± 24.6 |
| β-elemene *n.s.* | 1394 | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.0 | 278.6 ± 167.4 | 0.0 ± 0.0 | 0.0 ± 0.0 |
| α-bergamotene\* | 1405 | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.0 | 139.6 ± 7.4 | 117.8 ± 1.2 | 76.4 ± 24.1 |
| β-caryophellene\* **I** | 1422 | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.0 | 169.4 ± 17.1 | 127.0 ± 5.7 | 114.9 ± 1.0 |
| trans-β-farnesene\* **I** | 1456 | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.0 | 164.1 ± 16.1 | 99.4 ± 19.9 | 0.0 ± 0.0 |
| Zingeberene\* | 1495 | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.0 | 110.8 ± 1.0 | 0 ± 0.0 | 0.0 ± 0.0 |
| β-sesquiphellandrene\* | 1535 | 0.0 ± 0.0 | 0.0 ± 0.0 | 0.0 ± 0.0 | 228.2 ± 58.9 | 58.9 ± 26.3 | 0.0 ± 0.0 |
| *Total Emission* |  | 56.9 ± 6.1 **a** | 50.1 ± 1.3 **a** | 49.2 ± 0.5 **a** | 1113.9 ± 172.6 **b** | 436.3 ± 45.2 **c** | 233.2 ± 23.8 **c** |

Same lower-case letters indicate no difference at 5% significance, according to MANOVA followed by ANOVA and Tukey’s test for pairwise comparisons.

Same upper-case letters indicate no difference at 5% significance, according to generalised linear model followed by Tukey’s pairwise comparisons.

**I** indicates recognition by synthetic standard.