

Supplementary Material

Table S1. Average (\pm standard error; $n = 3$) constitutive VOC emission rates [$\text{nmol m}^{-2} \text{s}^{-1}$] in five tropical crop species measured by gas chromatography.

Compound class	Compound name	Molecular formula	<i>Abelmoschus esculentus</i>	<i>Amaranthus cruentus</i>	<i>Amaranthus hybridus</i>	<i>Solanum aethiopicum</i>	<i>Telfairia occidentalis</i>
Lightweight oxygenated compounds (LOCs)	Acetaldehyde	C ₂ H ₄ O	42 \pm 22	45 \pm 23	55 \pm 55	23 \pm 23	48 \pm 39
	Acetone	C ₃ H ₆ O	155 \pm 65	208 \pm 91	70 \pm 37	68 \pm 53	105 \pm 65
Lipoxygenase pathway products (LOX products)	1-Penten-3-one	C ₅ H ₈ O	nd	nd	3.5 \pm 2.2	1.2 \pm 1.2	3.8 \pm 3.3
	Pentanal	C ₅ H ₁₀ O	10 \pm 8	16 \pm 5.7	20 \pm 12	nd	3.0 \pm 2.4
	2-Pentanone	C ₅ H ₁₀ O	7 \pm 5	2.4 \pm 2.26	7.3 \pm 2.1	nd	6.1 \pm 3.9
	1-Pentanol	C ₅ H ₁₂ O	nd	nd	2.1 \pm 1.7	3.9 \pm 3.4	0.090 \pm 0.085
	1-Penten-3-ol	C ₅ H ₁₂ O	nd	nd	32 \pm 16	nd	nd
	(Z)-3-Hexen-1-ol	C ₆ H ₁₂ O	nd	nd	21 \pm 20	nd	nd
	(E)-3-Hexen-1-ol	C ₆ H ₁₂ O	nd	nd	2.2 \pm 2.2	nd	nd
	Hexanal	C ₆ H ₁₂ O	28 \pm 12	12 \pm 12	34 \pm 7.7	31 \pm 15	30 \pm 15
	(E)-1-hexanol	C ₆ H ₁₄ O	38 \pm 14	44 \pm 15	20 \pm 6.5	11 \pm 8.6	27 \pm 14
	Heptanal	C ₇ H ₁₄ O	14 \pm 4.6	21 \pm 2.5	36 \pm 18	nd	2.4 \pm 1.9
Fatty acid derived compounds	Octanal	C ₈ H ₁₆ O	13 \pm 3.3	41 \pm 5.7	41 \pm 31	nd	3.2 \pm 3.2
	Nonanal	C ₉ H ₁₈ O	42 \pm 21	93 \pm 23	98 \pm 77	15 \pm 15	4.6 \pm 2.9
	Decanal	C ₁₀ H ₂₀ O	92 \pm 16	40 \pm 26	71 \pm 61	2.4 \pm 2.4	2.0 \pm 2.0
	Benzaldehyde	C ₈ H ₈ O ₂	10 \pm 3.5	34 \pm 9.1	28 \pm 4.9	19 \pm 19	46 \pm 21
Benzenoids	6-Methyl-5-hepten-2-one	C ₈ H ₁₄ O ₂	48 \pm 8	20 \pm 4.4	66 \pm 41	45 \pm 45	40 \pm 37
Geranylgeranyl diphosphate pathway	Geranyl acetone	C ₁₃ H ₂₂ O	21 \pm 13	47 \pm 29	24 \pm 12	nd	3.2 \pm 3.2

Hemiterpene	Isoprene	C ₅ H ₈	52 ± 21	110 ± 19	48 ± 35	43 ± 17	69 ± 43
Non-oxygenated monoterpenes	Camphene	C ₁₀ H ₁₆	nd	13 ± 5.3	nd	0.92 ± 0.92	4.4 ± 3.9
	Δ ³ -Carene	C ₁₀ H ₁₆	nd	2.8 ± 2.8	58 ± 58	27 ± 19	80 ± 40
	p-Cymene	C ₁₀ H ₁₆	nd	25 ± 17	9.5 ± 5.0	18 ± 14	6.2 ± 3.0
	Limonene	C ₁₀ H ₁₆	134 ± 25	26 ± 12	31 ± 10	14 ± 3.5	22 ± 11
	β-Myrcene	C ₁₀ H ₁₆	nd	nd	nd	8.6 ± 8.6	4.9 ± 4.7
	(E)-β-ocimene	C ₁₀ H ₁₆	nd	99 ± 49	54 ± 51	37 ± 37	3.1 ± 2.8
	α-Pinene	C ₁₀ H ₁₆	58 ± 21	69 ± 32	57 ± 19	5.0 ± 5.0	59 ± 30
	β-Pinene	C ₁₀ H ₁₆	18 ± 7	12 ± 6.0	22 ± 6.5	3.2 ± 3.3	12 ± 6.5
	α-Phellandrene	C ₁₀ H ₁₆	nd	nd	nd	0.16 ± 0.15	nd
	β-Phellandrene	C ₁₀ H ₁₆	nd	4.3 ± 2.4	3.9 ± 2.4	2.4 ± 2.2	2.8 ± 1.4
	α-Terpinene	C ₁₀ H ₁₆	11 ± 5	nd	0.15 ± 0.15	nd	nd
	(E)-Dihydrocarvone	C ₁₀ H ₁₆ O	12 ± 5	nd	nd	nd	nd
	Camphor	C ₁₀ H ₁₆ O	68 ± 11	nd	nd	nd	nd
Oxygenated monoterpenes	β-Cyclocytral	C ₁₀ H ₁₆ O	36 ± 16	nd	nd	nd	nd
	1,8-cineole	C ₁₀ H ₁₈ O	nd	0.49 ± 0.49	nd	nd	nd
	Linalool	C ₁₀ H ₁₈ O	32 ± 14	nd	nd	nd	nd
	α-Terpineol	C ₁₀ H ₁₈ O	18 ± 6	nd	nd	nd	nd
	Cubebene	C ₁₅ H ₂₄	26 ± 12	nd	nd	nd	nd
Sesquiterpenes	(E)-β-Farnesene	C ₁₅ H ₂₄	nd	40 ± 20	nd	5.1 ± 2.9	5.2 ± 2.7
	Longifolene	C ₁₅ H ₂₄	nd	nd	nd	2.4 ± 2.4	nd
	Aromadendrene	C ₁₅ H ₂₄	nd	nd	0.96 ± 0.96	nd	nd

nd: not detected