

**Floral Scent and Nectar Sugar Composition of *Temnadenia odorifera*
(Apocynoideae, Apocynaceae)**

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Table S1. Validation parameters for sucrose, glucose and fructose

Parameter	Sucrose	Glucose	Fructose
Linearity			
Concentration levels / (mg mL ⁻¹)	1, 5, 10, 20, 40	1, 5, 10, 15, 20	1, 5, 10, 15, 20
Correlation coefficient (r)	0.9996	0.9975	0.9975
Cochran's test	homoscedasticity	homoscedasticity	homoscedasticity
	C _{cal} = 0.55	C _{cal} = 0.52	C _{cal} = 0.61
	C _{tab} = 0.68	C _{tab} = 0.68	C _{tab} = 0.68
Matrix effect	present	absent	absent
	t _{cal} = 2.71	t _{cal} = 1.30	t _{cal} = 1.30
	t _{tab} = 2.05	t _{tab} = 2.05	t _{tab} = 2.05
LOQ / (ng mL ⁻¹)	1.0	0.6	0.6
LOD / (ng mL ⁻¹)	0.3	0.2	0.2
Accuracy			
Mean recovery / %	81.99	89.91	86.3
Precision			
Repeatability / %	0.07-1.09	0.03-0.805	0.05-0.873

C_{cal}: Calculated value for the Cochran test (the ratio between the highest value of variance and the sum of all variances); C_{tab}: the respective tabulated (reference) C value; t_{cal}: calculated value for the Cochran test on similarity of the standard deviations; t_{tab}: tabulated (reference) value for the corresponding Cochran t test; LOQ: limit of quantification; LOD: limit of detection.

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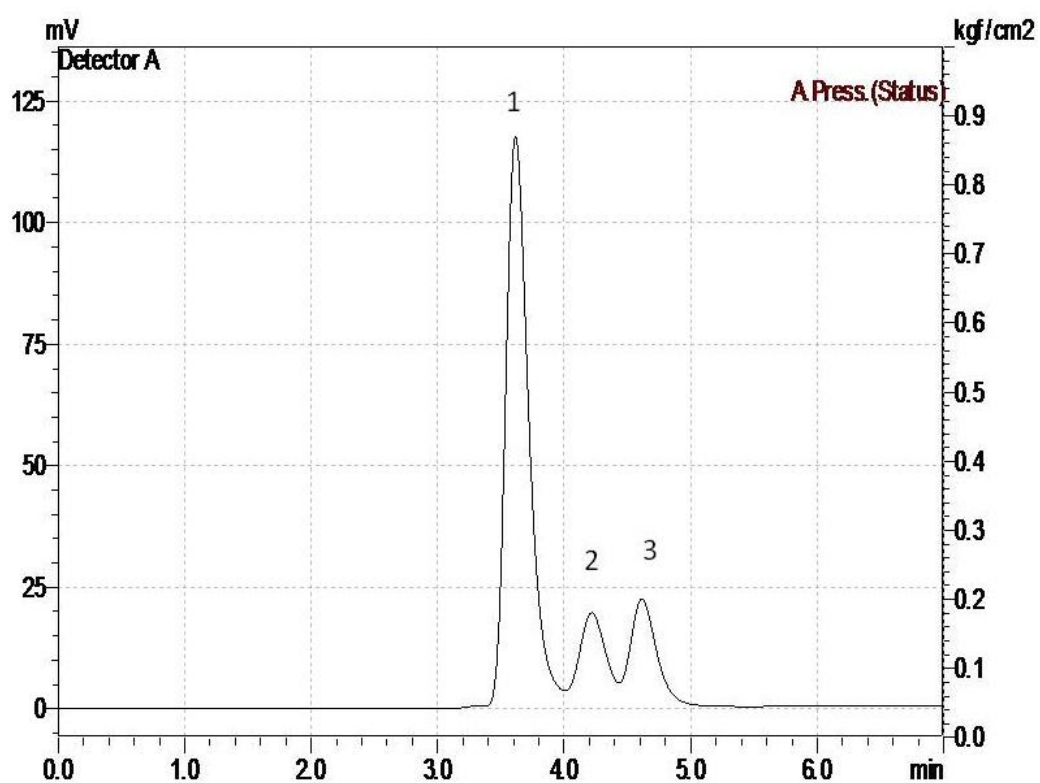


Figure S1. Chromatogram of nectar sample 1 from *Temnadenia odorifera* flower. Nectar of flower from site 2. (1) Sucrose, (2) glucose and (3) fructose.

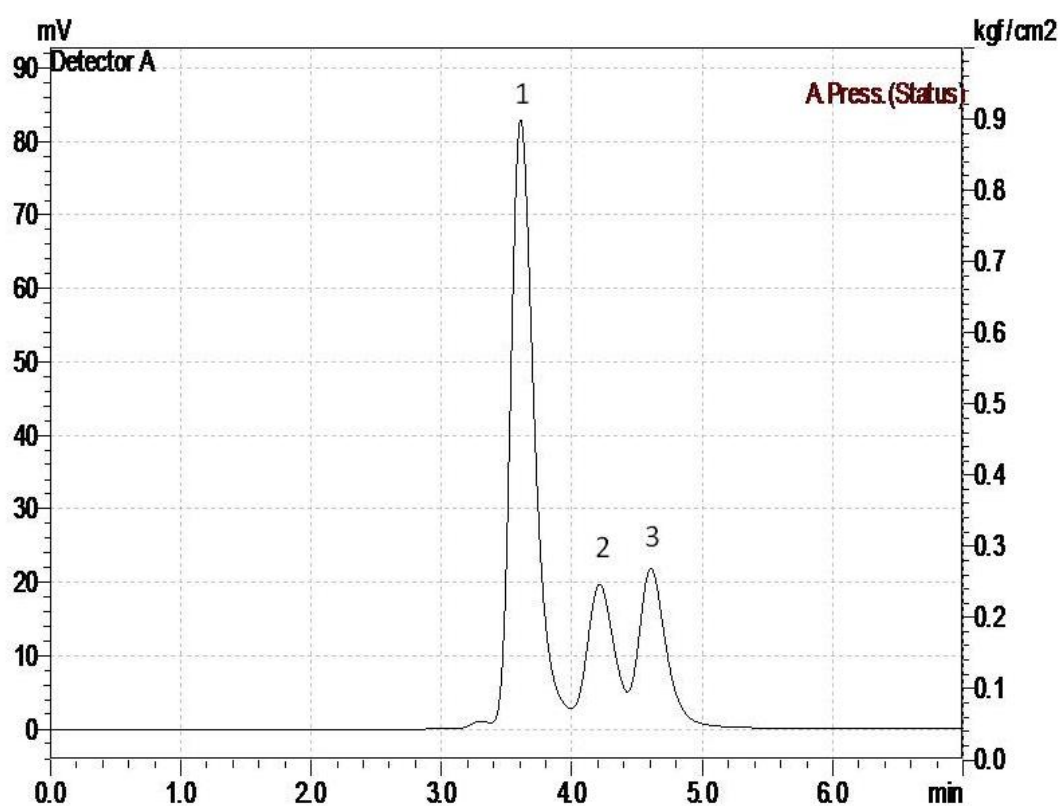


Figure S2. Chromatogram of nectar sample 2 from *Temnadenia odorifera* flower. Nectar of flower from site 2. (1) Sucrose, (2) glucose and (3) fructose.

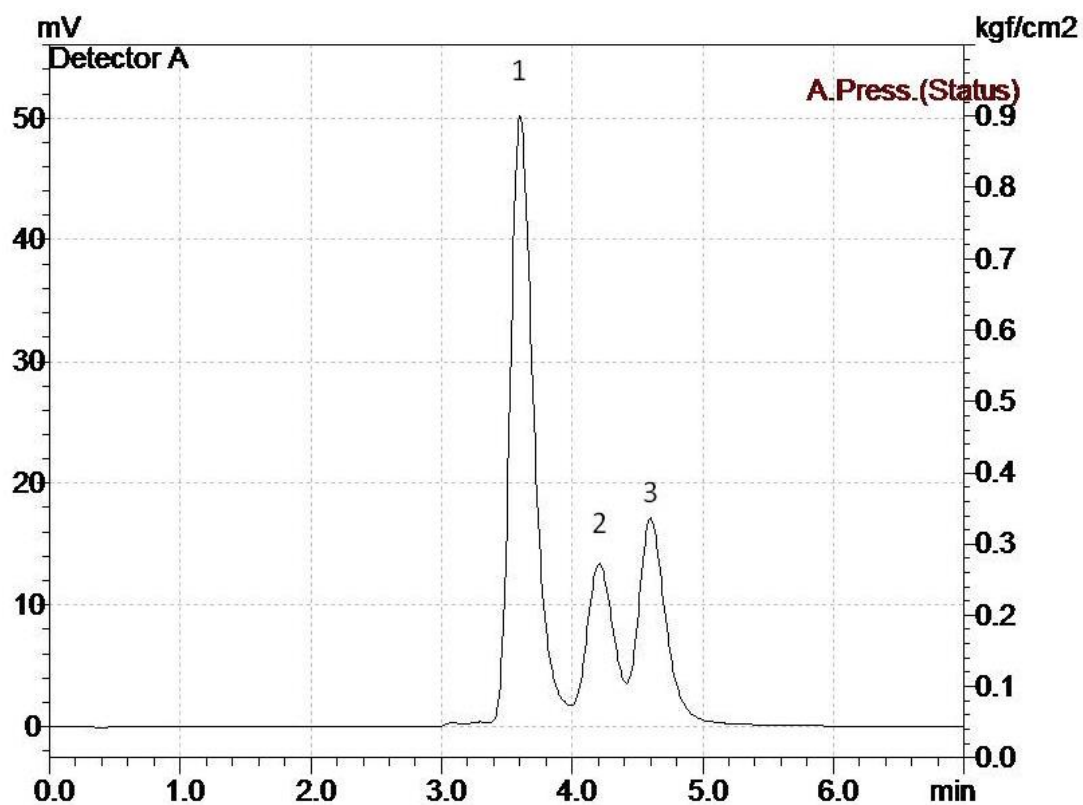


Figure S3. Chromatogram of nectar sample 3 from *Temnadenia odorifera* flower. Nectar of flower from site 2. (1) Sucrose, (2) glucose and (3) fructose.

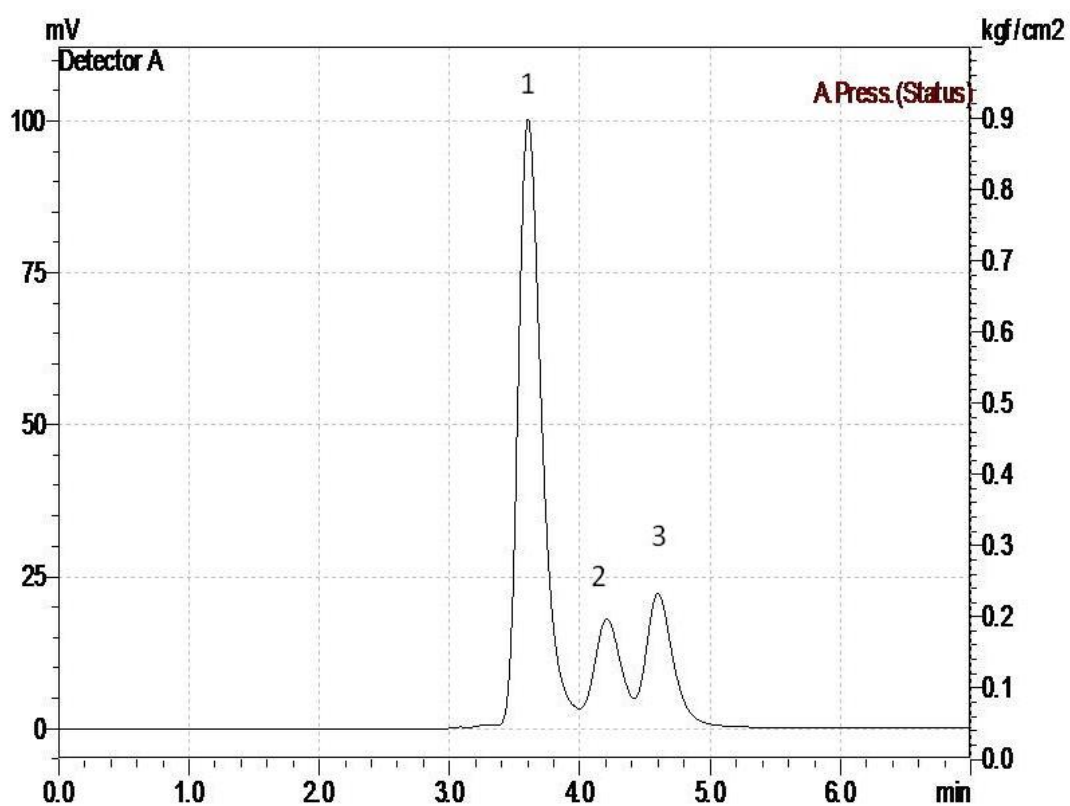


Figure S4. Chromatogram of nectar sample 4 from *Temnadenia odorifera* flower. Nectar of flower from site 2. (1) Sucrose, (2) glucose and (3) fructose.

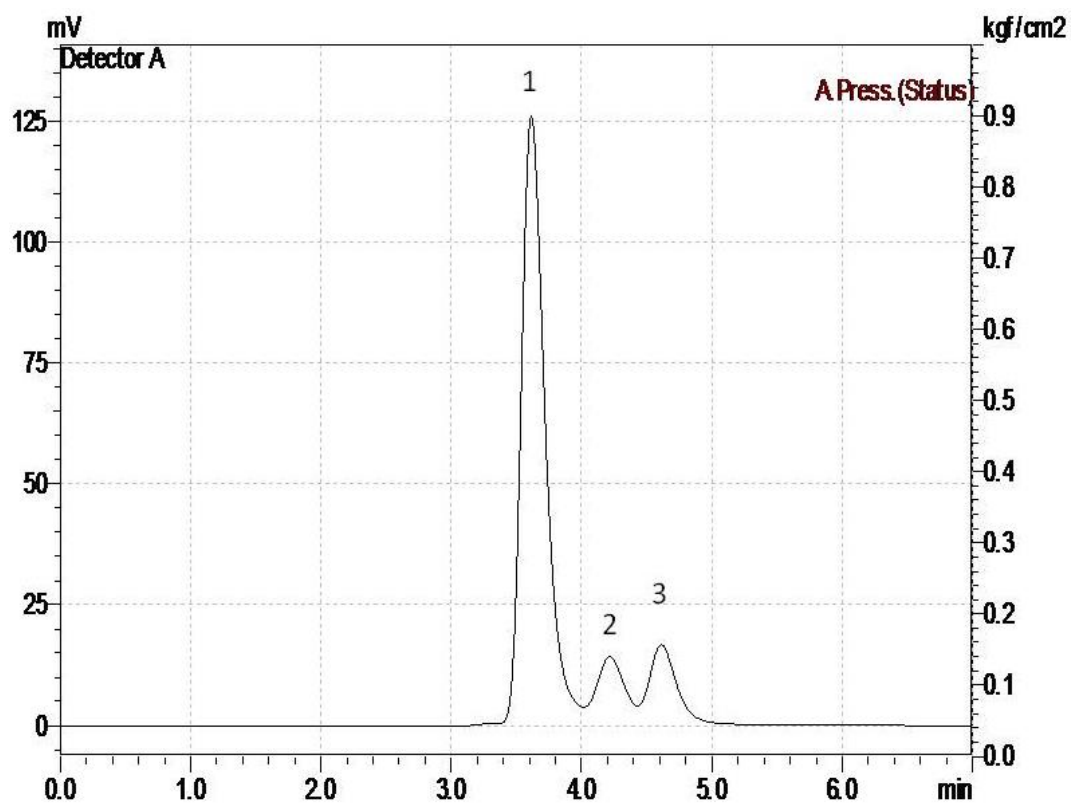


Figure S5. Chromatogram of nectar sample 5 from *Temnadenia odorifera* flower. Nectar of flower from site 2.
(1) Sucrose, (2) glucose and (3) fructose.

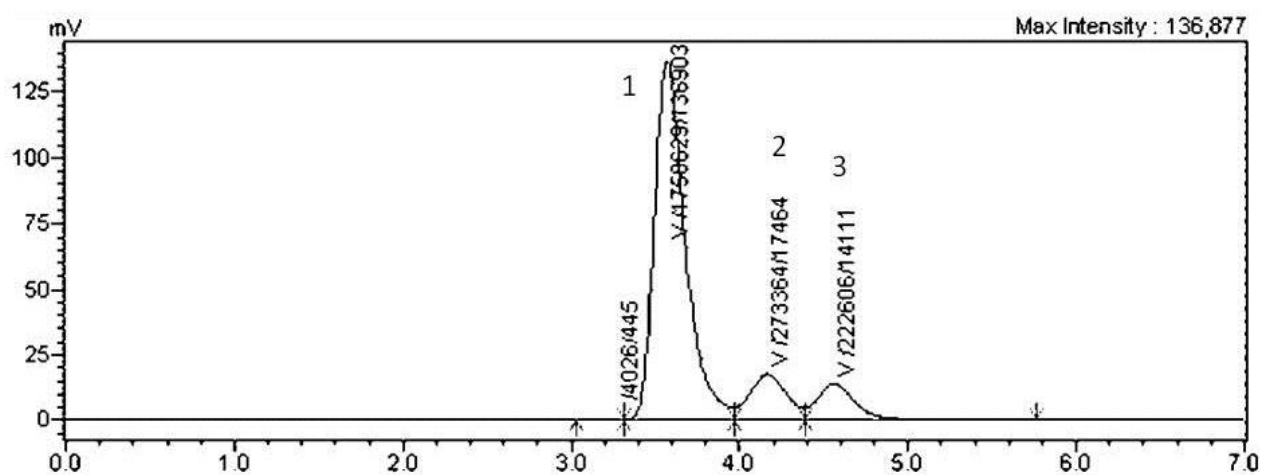


Figure S6. Chromatogram of nectar sample 1 from *Temnadenia odorifera* flower. Nectar of flower from site 1.
(1) Sucrose, (2) glucose and (3) fructose.

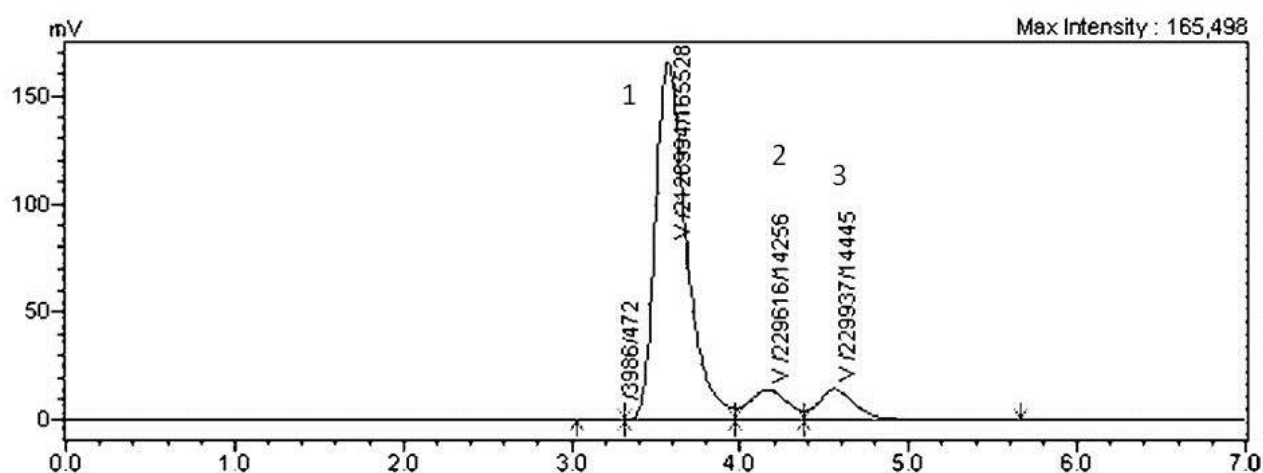


Figure S7. Chromatogram of nectar sample 2 from *Temnadenia odorifera* flower. Nectar of flower from site 1. (1) Sucrose, (2) glucose and (3) fructose.

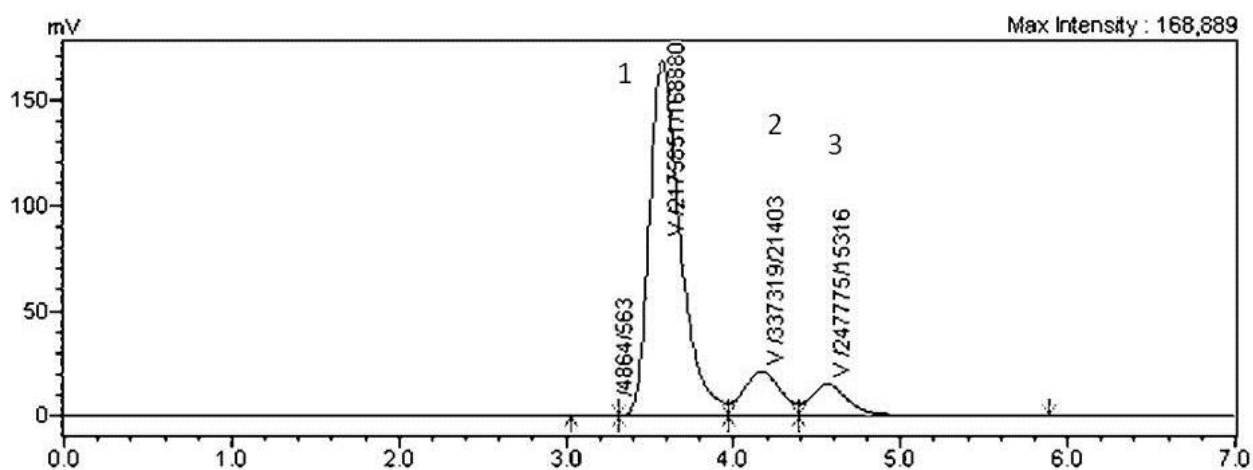


Figure S8. Chromatogram of nectar sample 3 from *Temnadenia odorifera* flower. Nectar of flower from site 1. (1) Sucrose, (2) glucose and (3) fructose.

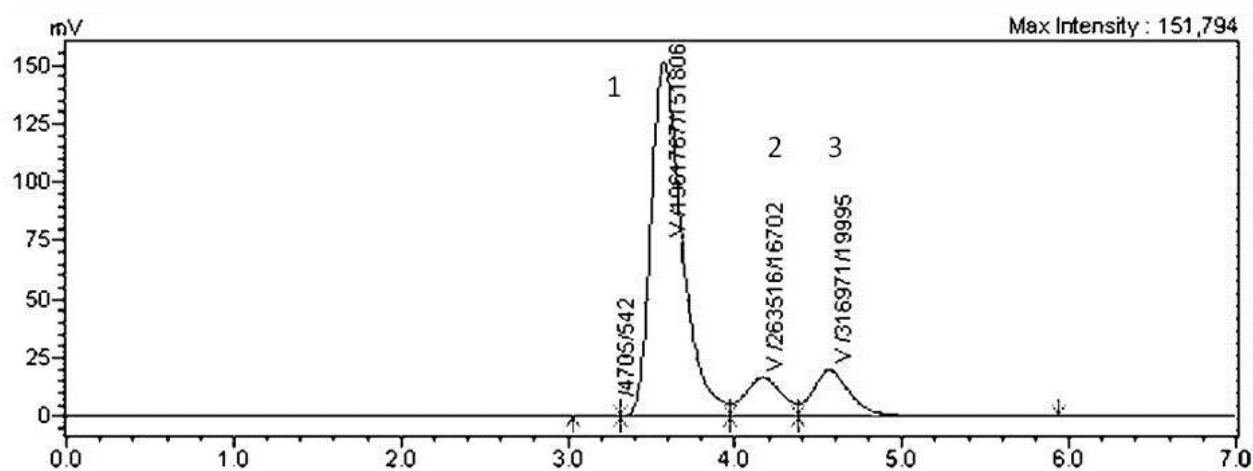


Figure S9. Chromatogram of nectar sample 4 from *Temnadenia odorifera* flower. Nectar of flower from site 1. (1) Sucrose, (2) glucose and (3) fructose.

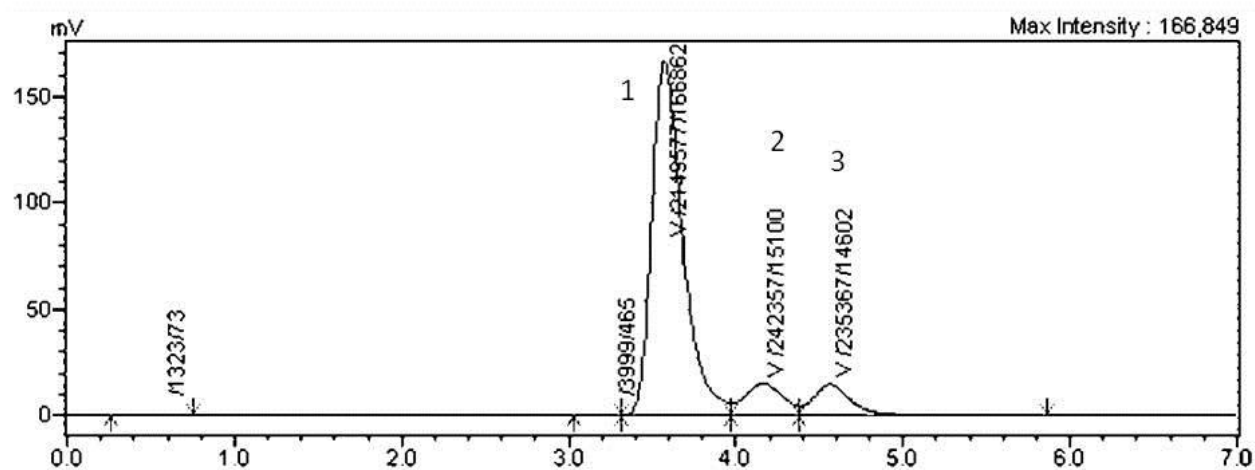


Figure S10. Chromatogram of nectar sample 5 from *Temnadenia odorifera* flower. Nectar of flower from site 1. (1) Sucrose, (2) glucose and (3) fructose.

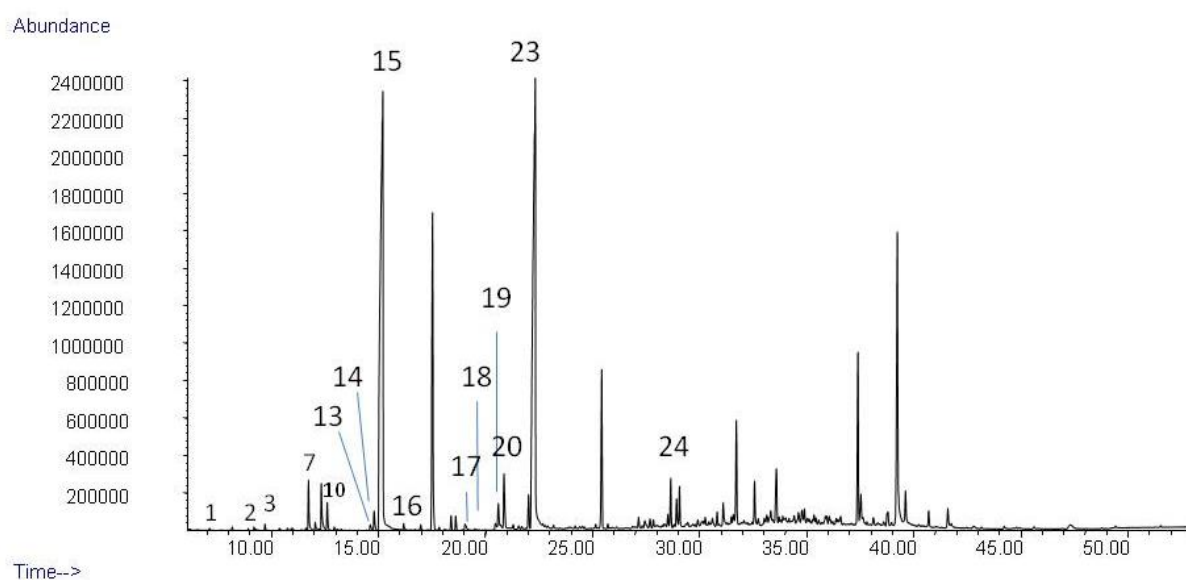


Figure S11. Total ion chromatogram (TIC) of flower volatiles of the *Temnadenia odorifera*. TIC of the flower 1 sample, trapped on site 2 between 9 to 12 h. The numbering refers to Table 1.

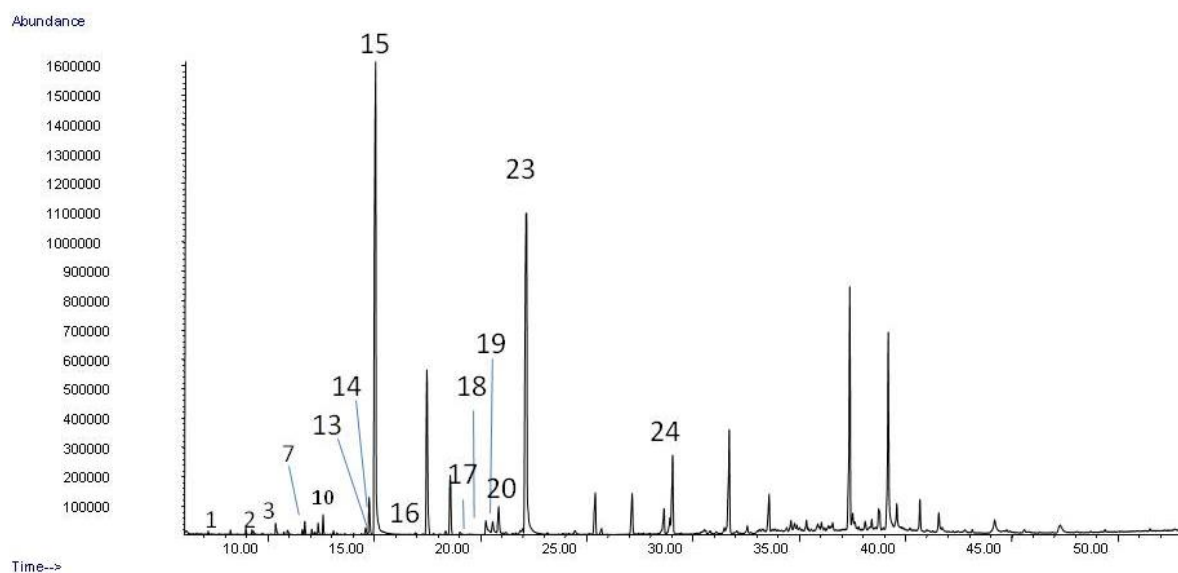


Figure S12. TIC of flower volatiles of the *Temnadenia odorifera*. TIC of the flower 2 sample, trapped on site 2 between 9 to 12 h. The numbering refers to Table 1.

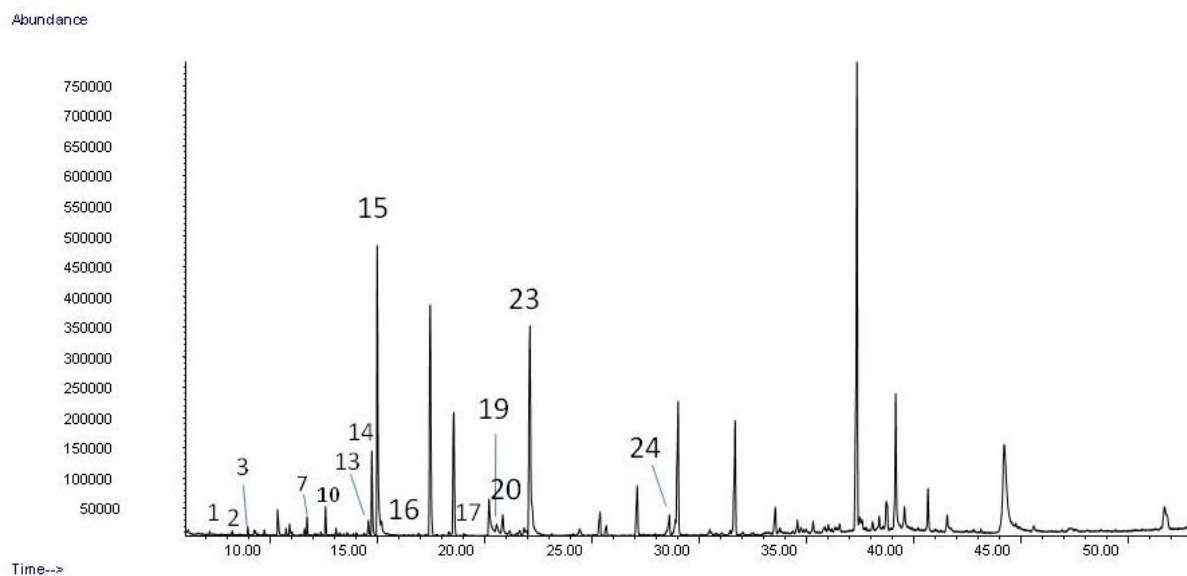


Figure S13. TIC of flower volatiles of the *Temnadenia odorifera*. TIC of the flower 3 sample, trapped on site 2 between 9 to 12 h. The numbering refers to Table 1.

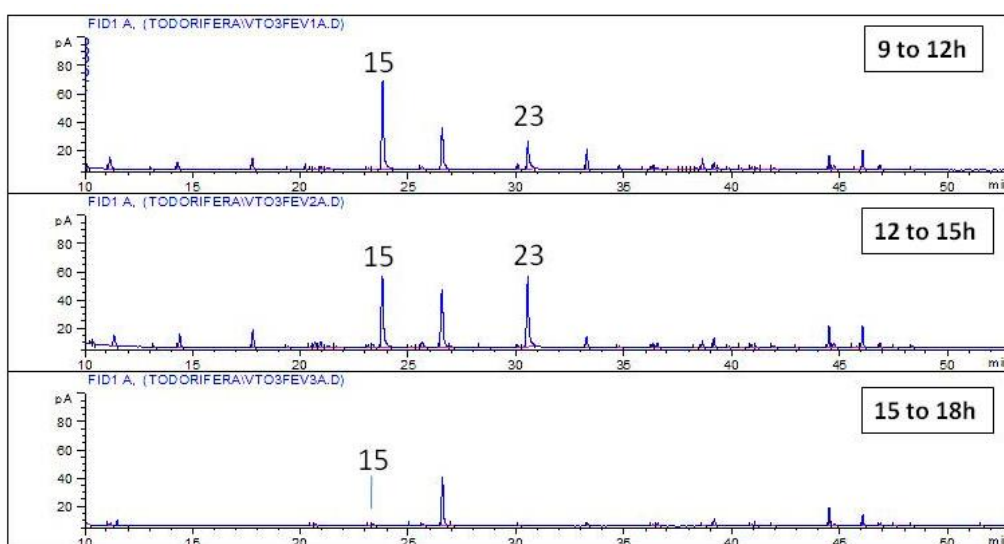


Figure S14. Comparison between different emission profiles of floral volatiles collected at different times. Volatiles trapped on February 3 (2017), on site 2. The numbering refers to Table 1.

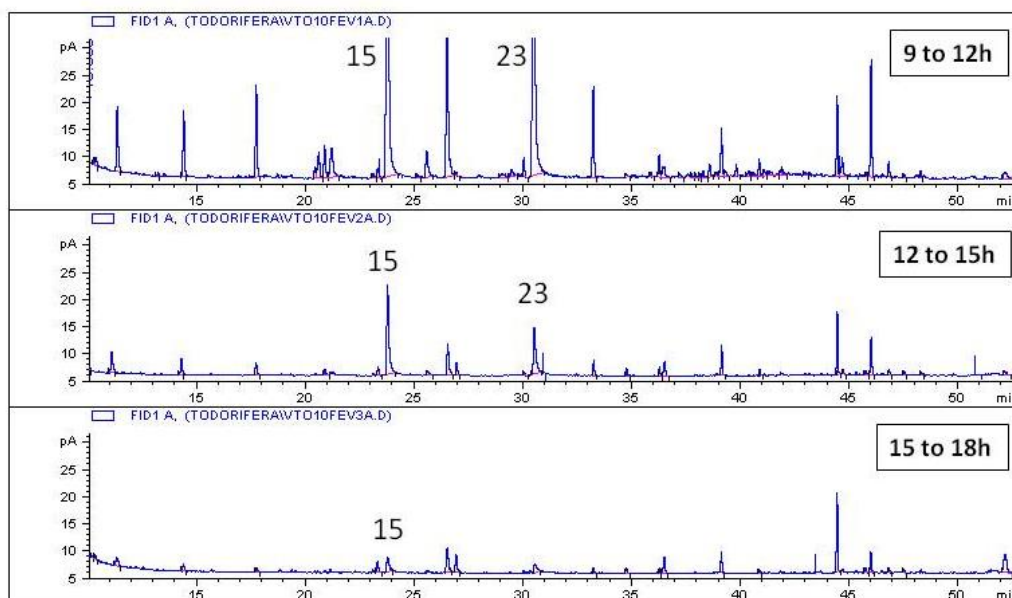


Figure S15. Comparison between different emission profiles of floral volatiles collected at different times. Volatiles trapped on February 10 (2017), on site 2. The numbering refers to Table 1.

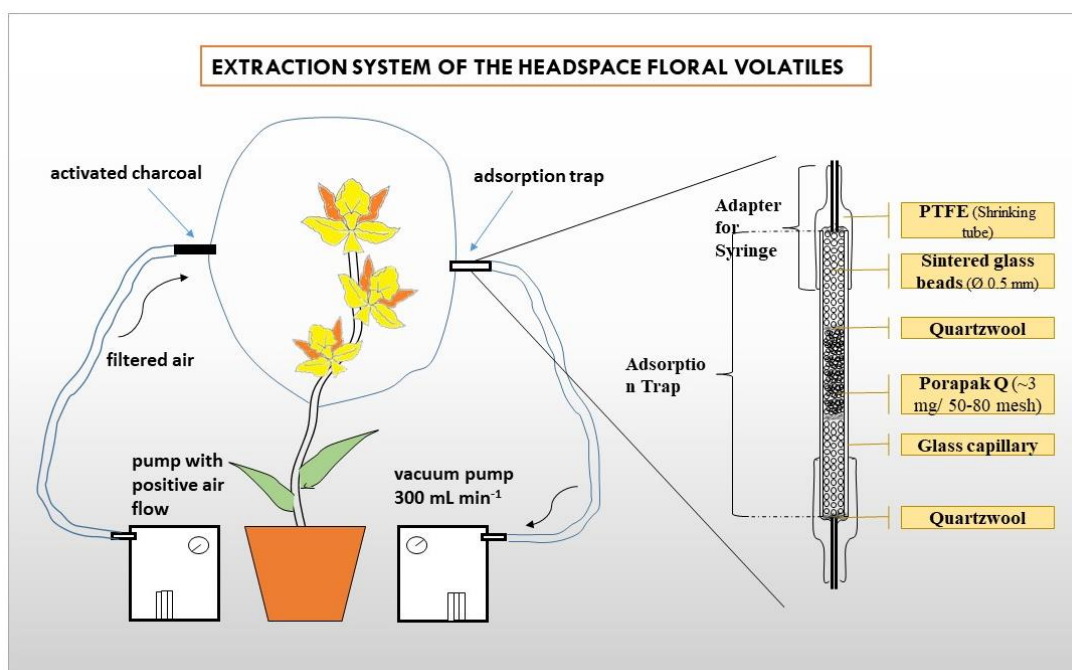


Figure S16. Schematic design of the equipment used to capture the floral odor.



Figure S17. Capture of floral scent from *T. odorifera* at the site 2 (photo by Rafael F. Silva)..

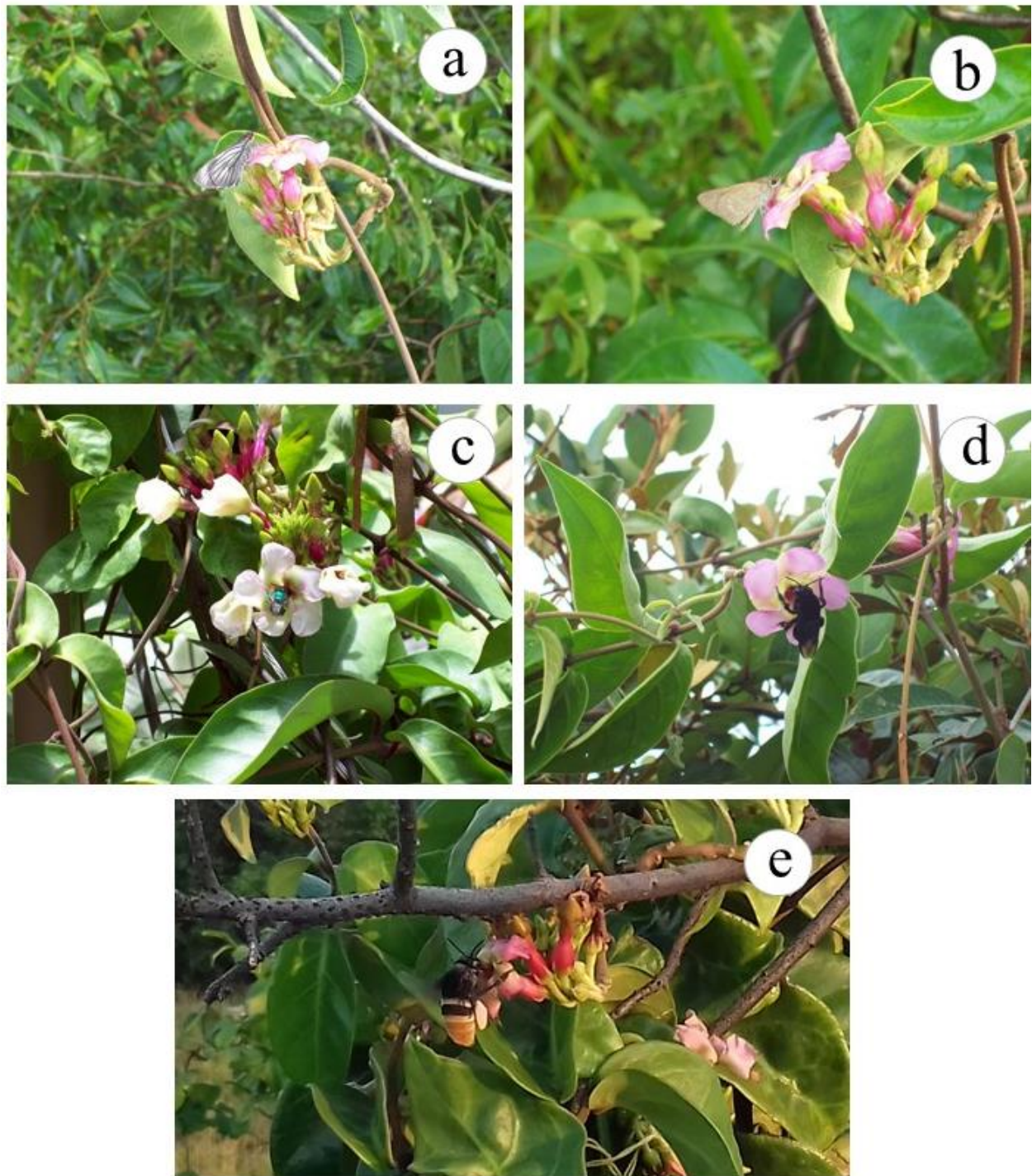


Figure S18. Insects visiting *T. odorifera* flowers. (a) *Carystus phorcus* (Cramer, 1777); (b) *Cymaenes tripunctus theogenis* (Capronnier, 1874); (c) *Euglossa* sp.; (d) *Eulaema nigrita* (Lepeletier, 1841); (e) *Eulaema cingulata* (Fabricius, 1804). The photo (e) was taken by Rafael F. Silva, while the other photos were taken by Cristiana Koschnitzke.