

SUPPLEMENTARY MATERIAL

Fragrance components of *Platanthera bifolia* subsp. *osca*

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SPME-GC-MS analysis of the scent of *Platanthera bifolia* subsp. *osca* collected during the night showed as main components lilac alcohols B, C, and D and lilac aldehydes A, B, and C. Other significant chemical components were linalool and caryophyllene. Some differences were found in comparison with previously reported analyses of the scent of *Platanthera bifolia* and *Platanthera chlorantha*. The most important difference found was in the composition of the ester fraction.

Keywords

Platanthera, scent, solid phase micro-extraction, gas-chromatography, mass spectrometry.



Figure S1. *P. bifolia* subsp. *osca*

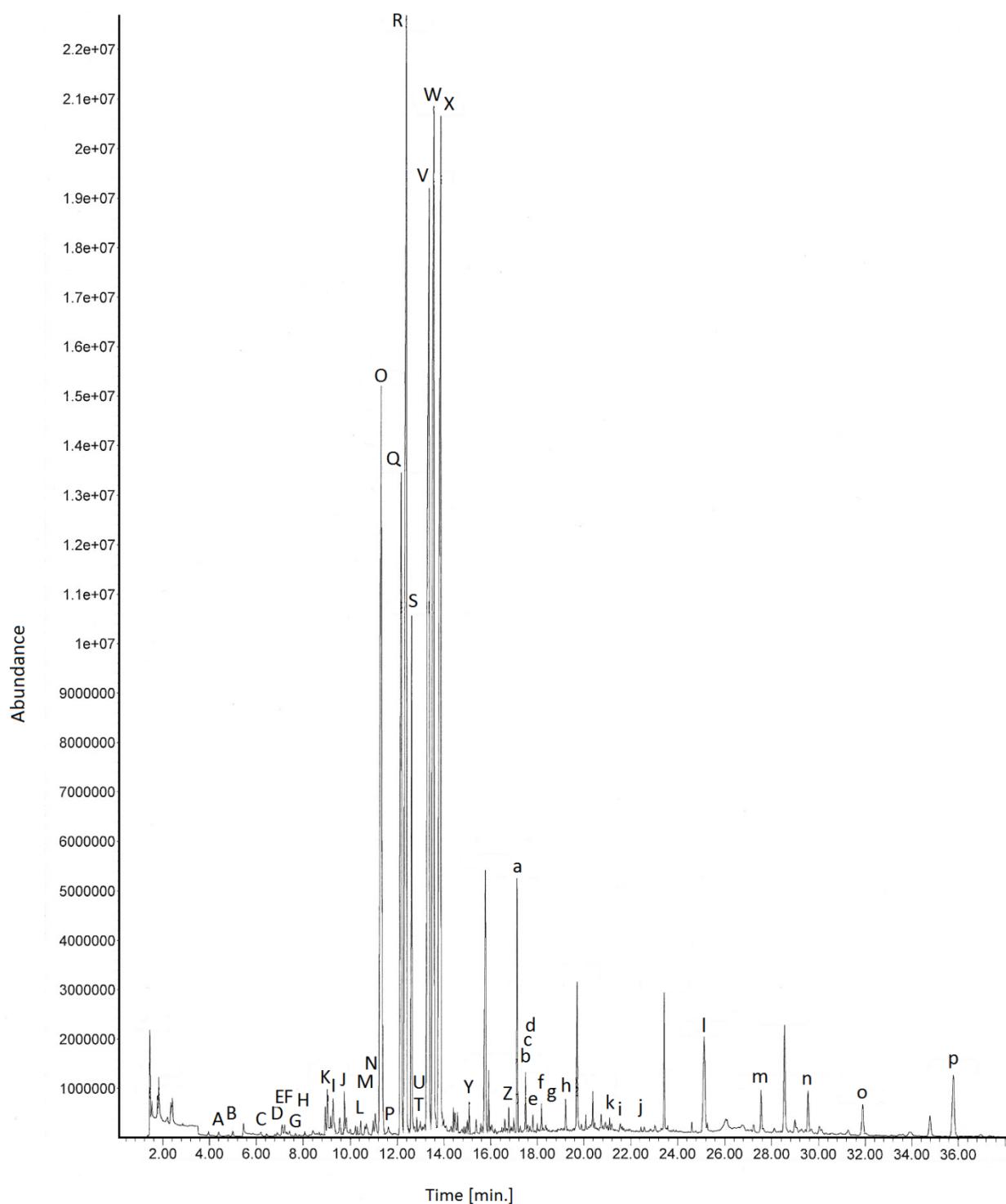


Figure S2. Gaschromatogram of volatile organic compounds from *P. bifolia* subsp. *osca*. A: toluene; B: hexanal; C: p-xylene; D: styrene; E: heptanal; F: 2-butoxyethanol; G: α -thujene; H: benzaldehyde; K: β -myrcene; I: octanal; J: *o*-cymene; L: Z- β -ocimene; M: $\alpha\beta$ -terpinene; N: 1-methyl-4-(1-methylthienyl)benzene; O: linalool; P: *E,E*-cosmene; Q: lilac aldehyde A; R: lilac aldehyde B; S: lilac aldehyde C; T: terpinen-4-ol; U: naphthalene; V: lilac alcohol B; W: lilac

alcohol C; X: lilac alcohol D; Y: undecanal; Z: dodecanal; a: caryophyllene; b: geranyl acetone; c: humulene; d: 2,6-bis(1,1-dimethylethyl)-2,5-cyclohexadiene-1,4-dione; e: α -muurolene; f: pentadecane; g: *trans*-nerolidol; h: heptadecane; k: 2,6-diisopropylnaphthalene; i: octadecane; j: octadecane; l: bis(2-ethylhexyl)hexanedioate; m: pentacosane; n: hexacosane; o: heptacosane; p: squalene. The unidentified peaks after 19 min. are due to phthalates deriving from the set of the gaschromatographic apparatus.