



Supplement of

Field-deployable branch enclosure system for biogenic volatile organic compounds emitted from conifers

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Supplement

Table S1 List of compounds studied in this work, including purity and supplier of the standard chemicals used and limits of detection (LOD). Cyclopentadecane (98%, Tokyo Chemical Industry Co.) was used as an internal standard.

Tokyo Chemical Industry Co., Tokyo Chemical Industry Co., Ltd., Tokyo, Japan; Sigma-Aldrich, Sigma-Aldrich, Tokyo, Japan; ChromaDex, ChromaDex, Los Angeles, CA, USA; Toronto Research Chemicals, Toronto Research Chemicals, Toronto, ON, Canada; Fujifilm Wako, Fujifilm Wako, Osaka, Japan; MP Biomedicals Japan, MP Biomedicals Japan, Tokyo, Japan; N.A., Not Available.

Compound	Purity	Supplier	LOD (ng)
α -pinene	99%	Tokyo Chemical Industry Co.	0.127
camphene	80%	Tokyo Chemical Industry Co.	0.107
($\pm$)-limonene	95%	Tokyo Chemical Industry Co.	0.079
myrcene	97.60%	Sigma-Aldrich	0.033
α -terpinene	95%	Sigma-Aldrich	0.280
3-carene	$\geq 98.5\%$	Sigma-Aldrich	0.020
p-cymene	99%	Sigma-Aldrich	0.039
γ -terpinene	97%	Sigma-Aldrich	0.044
thujopsene	97%	Sigma-Aldrich	0.810
sabinene	97.90%	ChromaDex	0.113
terpinolene	97.50%	ChromaDex	0.155
β -farnesene	98.50%	ChromaDex	0.763
β -pinene	96%	Toronto Research Chemicals	0.089
β -ocimene	$>90\%$	Toronto Research Chemicals	0.195
copaene	94%	Toronto Research Chemicals	0.326
β -caryophyllene	95%	Toronto Research Chemicals	0.254
methyl salicylate	98%	Fujifilm Wako	0.421
longifolene	89%	MP Biomedicals Japan	0.172
ent-kaurene	N.A.	transferred from Tokushima Bunri University	0.550
phyllocladene	N.A.	transferred from Yamagata University	0.501

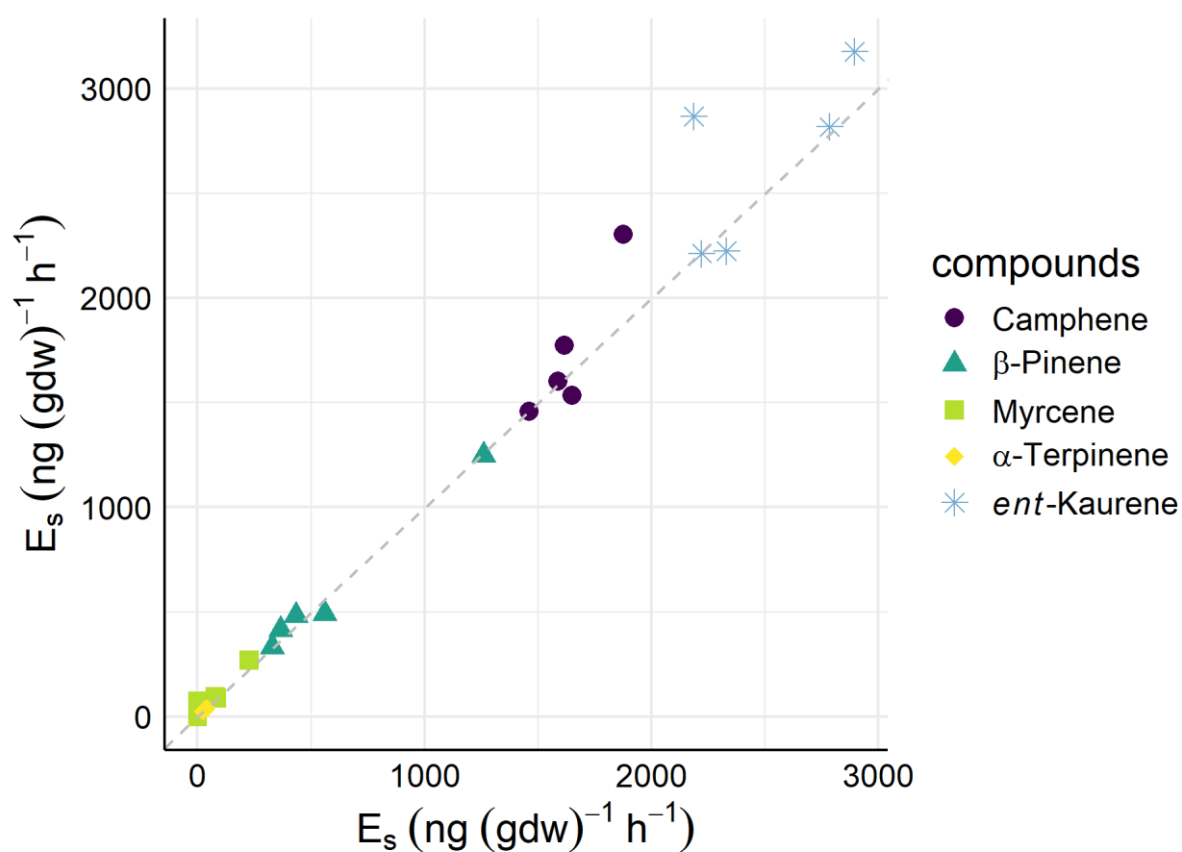


Figure S1 Correlations of the duplicate measurements of BVOC emission rates from Japanese cedar (*Cryptomeria Japonica*). Emission rates were measured twice for each of five individuals, using the same branch in both measurements. The black dashed line is the 1:1 line.