



Table S1. Difference analysis of the two detection methods

| Species | Isoprene Emission Rate ($\mu\text{g}\cdot\text{g}^{-1}\cdot\text{h}^{-1}$) | | t | Sig. |
|-------------------------------|--|------------------|--------|-------|
| | GC-MS method | TOF-MS method | | |
| <i>Salix babylonica</i> | 12.72 \pm 1.03 | 14.94 \pm 2.88 | 1.046 | 0.355 |
| <i>Ginkgo biloba</i> | 2.19 \pm 0.23 | 2.54 \pm 0.33 | 1.305 | 0.262 |
| <i>Cinnamomum camphora</i> | 0.84 \pm 0.22 | 0.73 \pm 0.08 | -0.689 | 0.529 |
| <i>Ligustrum lucidum</i> | 1.58 \pm 1.18 | 1.12 \pm 0.14 | -0.667 | 0.541 |
| <i>Viburnum odoratissimum</i> | 1.14 \pm 0.12 | 1.58 \pm 0.33 | 1.787 | 0.148 |

Table S2. Results of Two-Way ANOVA of species and seasonal differences on emission rate

| | Df | SumsOfSqs | MeanSqs | F.Model | R ² | Pr(>F) | |
|----------------|----|-----------|---------|---------|----------------|--------|-----|
| Species | 9 | 236.33 | 26.2585 | 66.503 | 0.354 | 0.001 | *** |
| Season | 3 | 70.62 | 23.5413 | 59.621 | 0.10579 | 0.001 | *** |
| Species:Season | 23 | 332.21 | 14.4438 | 36.581 | 0.49762 | 0.001 | *** |