## Characterization of the Chemical Constituents of Agarwood Oils from Malaysia by Comprehensive Two-Dimensional Gas Chromatography—Time-of-Flight Mass Spectrometry

## Saiful Nizam Tajuddin<sup>a</sup>, Norfatirah S. Muhamad<sup>a</sup>, Mohd A. Yarmo<sup>b</sup>, Mashitah M. Yusoff<sup>a</sup>,

## **ABSTRACT**

4-Phenyl-2-butanone, a-bulnesene, a-guaiene, agarospirol, ledene oxide-(II), elemol and g-eudesmol were identified as the major chemical constituents of Malaysian agarwood oils.

**DOI**: 10.1016/j.mencom.2013.01.019

<sup>&</sup>lt;sup>a</sup> Faculty of Industrial Sciences and Technology, University Malaysia Pahang, 26300 Gambang, Pahang, Malaysia

<sup>&</sup>lt;sup>b</sup> Faculty of Science and Technology, University Kebangsaan Malaysia, 43600 Bangi, Selangor, Malaysia