Supporting Information

Application of GC/Q-Tof Combined with Advanced Data Mining and Chemometric Tools in the Characterization and Quality Control of Bay Leaves

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Fig. S1-1 Chromatogram of *Laurus nobilis*.
Fig. S1-2 PCDL standard spectrum for 3-carene.

Fig. S1-3 Spectrum for peak 1 in the sample (identified as 3-carene).
Fig. S1-4 PCDL standard spectrum for sabinene.

Fig. S1-5 Spectrum for peak 2 in the sample (identified as sabinene).
Fig. S1-6 PCDL standard spectrum for eucalyptol.

Fig. S1-7 Spectrum for peak 3 in the sample (identified as eucalyptol).
Fig. S1-8 PCDL standard spectrum for α-terpineol.

Fig. S1-9 Spectrum for peak 4 in the sample (identified as α-terpineol).
Fig. S1-10 PCDL standard spectrum for methyl eugenol.

Fig. S1-11 Spectrum for peak 5 in the sample (identified as methyl eugenol).
Fig. S2-1 Chromatogram of *Cinnamomum tamala.*
Fig. S2-2 PCDL standard spectrum for \( p \)-cymene.

Fig. S2-3 Spectrum for peak 6 in the sample (identified as \( p \)-cymene).
Fig. S2-3 PCDL standard spectrum for eucalyptol.

Fig. S2-4 Spectrum for peak 7 in the sample (identified as eucalyptol).
Fig. S2-5 PCDL standard spectrum for linalool.

Fig. S2-6 Spectrum for peak 8 in the sample (identified as linalool).
**Fig. S2-7** PCDL standard spectrum for cinnamaldehyde.

**Fig. S2-8** Spectrum for peak 9 in the sample (identified as cinnamaldehyde).
Fig. S3-1 Chromatogram of *Umbellularia californica* (n-hexane extracts).
**Fig. S3-2** PCDL standard spectrum for β-pinene.

**Fig. S3-3** Spectrum for peak 10 in the sample (identified as β-pinene).
**Fig. S3-4** PCDL standard spectrum for \( p \)-cymene.

**Fig. S3-5** Spectrum for peak 11 in the sample (identified as \( p \)-cymene).
Fig. S3-6 PCDL standard spectrum for eucalyptol.

Fig. S3-7 Spectrum for peak 12 in the sample (identified as eucalyptol).
Fig. S3-8 PCDL standard spectrum for umbellulone.

Fig. S3-9 Spectrum for peak 13 in the sample (identified as umbellulone).
Fig. S3-10 PCDL standard spectrum for terpinen-4-ol.

Fig. S3-11 Spectrum for peak 14 in the sample (identified as terpinen-4-ol).
**Fig. S3-12** PCDL standard spectrum for α-terpineol.

**Fig. S3-13** Spectrum for peak 15 in the sample (identified as α-terpineol).
**Fig. S3-14** PCDL standard spectrum for thymol.

**Fig. S3-15** Spectrum for peak 16 in the sample (identified as thymol).
Fig. S4-1 Chromatogram of *Pimenta racemosa* (*n*-hexane extracts).
Fig. S4-2 PCDL standard spectrum for linalool.

Fig. S4-3 Spectrum for peak 17 in the sample (identified as linalool).
**Fig. S4-4** PCDL standard spectrum for $\beta$-caryophyllene.

**Fig. S4-5** Spectrum for peak 18 in the sample (identified as $\beta$-caryophyllene).