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# Wihack Portable

the portable mass spectrometer system was connected to a dim probe system interfaced with the api ms system via a t-junction and the headspace vapors (10 ml) were exposed in close proximity to the membrane of the probe system. the api ms system was run in the positive esi mode using the following conditions: nebulizer pressure - 40 psi, drift tube voltage - 500 v, auxiliary gas flow - 0.5 l/min, t-junction temperatures - 25°C and 45°C, spray voltage - 5 kv, scan time - 0.1 s, gas temperature - 450°C, gas flow - 4 l/min and capillary voltage - 4000 v with a nebulizer gas pressure of 55 psi. the mass spectra of the aromatic compounds (bicyclic and acyclic terpenes) and essential oils (i.e., tangerine, papaya, banana and blue berry muffin) recorded are shown in figure 6. fragment peaks for ei of the aromatic compounds are observed at m/z 73 and 93 for c<sub>7</sub>h<sub>10</sub>o (m/z 73 and 93) [c<sub>8</sub>h<sub>12</sub>o (m/z 83 and 103) and c<sub>9</sub>h<sub>14</sub>o (m/z 109 and 113). c<sub>8</sub>h<sub>12</sub>o (m/z 83 and 103) was detected as the base peak fragment in the sim scan of bishomocyclohexane monoterpene (acyclic hydrocarbon) and c<sub>9</sub>h<sub>14</sub>o (m/z 109 and 113) as the base peak fragment in sim scan of bishomocyclohexene monoterpene (acyclic hydrocarbon) mixture. the mass spectra for the essential oils have the expected molecular ions for the major compounds in each sample (i.e., apiole, bergamotene, alpha-terpineol, and linalool) and their fragmentation by loss of -[cho] neutral losses to form the fragment ions at m/z 43, 76, and 87 for the esters (i., 3-methylbutyl acetate, linalyl acetate, and 2-methylbutyl acetate), aromatic compounds (i., 2-methylbutyl acetate, 3-methylbutyl acetate, benzyl alcohol, and 2-phenylethanol) and terpene hydrocarbons (i., 3-methylbutyl acetate and 3,5-dimethoxybenzoic acid). similar to the model compounds analysis the unidentified compounds in the mixture were found in the negative mode of ei ionization. the molecular ion peaks of these compounds are observed at m/z 93, m/z 163, m/z 175 and m/z 181 for aromatic compounds, pyrrole and pyran rings in terpene hydrocarbons and indole groups in terpenes (i., 2-pyrrolylcarboxaldehyde, 1-indanol and 2-indanol).

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the analytical results obtained from the mass spectrometric analytes analysis provide the evidence that the portable mass spectrometry system can be used for rapid quantification of components of natural oils with no sample preparation. this type of detection instruments has the ability to detect low concentration (i.e., low ppm) and low-resolution mass spectra and can be used for rapid screening in biological laboratories for the detection of the combination of compounds (i., mixtures) or individual compounds in natural oils. these results clearly show that the portable mass spectrometry system can be used as a high-throughput detection and quantification systems for many samples if the appropriate sample preparation (e.g., solvent evaporation) is not performed. additionally, to avoid the case of false positives and false negatives and to maximize the information obtained from each analysis, an appropriate ionization techniques (e., electron impact ionization (ei), chemical ionization (ci), or apci) need to be combined with a proper type of detector (e., dim) as the ionization source in this paper. in addition, the instrument requires the use of the appropriate calibration curve for each analysis but the data obtained are reliable if the appropriate standard solution is used for the calibration (i., si ( $\mu\text{g/ml}$ )). performance of portable mass spectrometer for rapid screening of multiple strains of rainbow trout using the chromatographic profile of fish oil - (peer reviewed journal) chatakondi, n.g. 2019. performance of portable mass spectrometer for rapid screening of multiple strains of rainbow trout using the chromatographic profile of fish oil. north american journal of aquaculture. 81:243-248. 5ec8ef588b

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