Application Snapshot

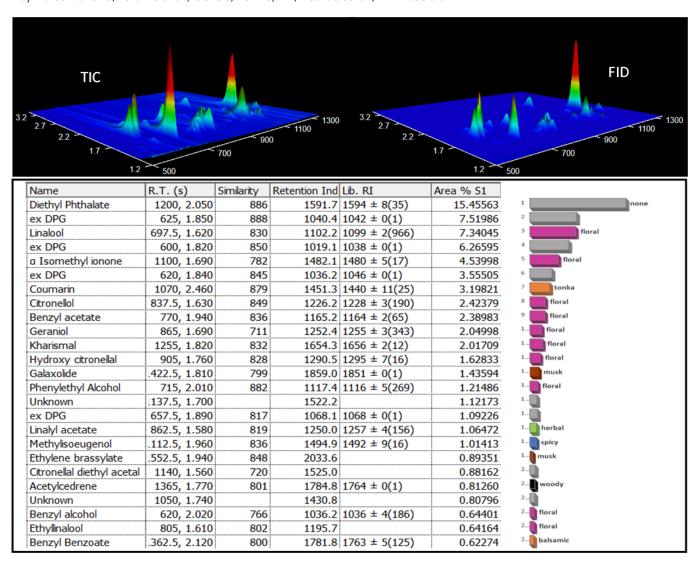


Instrument: Pegasus® BT 4D with Paradigm Shift

Reformulation of Perfume Sample with GCxGC-TOFMS/FID

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Key Words: Perfume, Reformulation, GCxGC, TOFMS, FID, Dual detection, RFF modulator



TIC and FID GCxGC chromatograms, that were detected simultaneously from one injection, are shown for a perfume sample. The table shows the major analyte components that were tentatively identified from MS and relatively quantified with Area% from FID.

A perfume sample was analyzed with GCxGC-TOFMS/FID to simultaneously identify and quantify the major components within the sample. GCxGC was crucial for handling the sample complexity, and dual detection allowed for analyte identifications with MS and quantitation based on FID Area % from a single injection. A GCxGC flow modulator allowing full transfer of analytes from the first dimension to the second dimension and a splitter capable of maintaining a constant split ratio between the MS and FID during the entire length of the run were critical for this work.