Analysis of Pesticides in Brewed Green Tea by SBSE-GCxGC-TOFMS Showing Baseline Resolution of Three Pesticides in the 2nd Dimension Separation

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Disulfoton, E-Lindane, and Diazinone spiked at 250 ppt into brewed green tea is illustrated in the reconstructed 1st dimension chromatogram by the unique ions m/z 137, 88, and 111 showing complete coelution in the first dimension. The inset of the three dimensional contour plot shows that these pesticides are baseline resolved by the 2nd dimension separation.

Columns:
10 m x 0.18 mm x 0.2 µm Rtx-5
1.5 m x 0.10 mm x 0.10 µm DB-17

TOFMS:
45 to 550 m/z @ 150 spectra/s

For questions on this analysis e-mail us at: life_science@leco.com

For a complete listing of snapshots and application notes visit us on the web at www.leco.com