

**THE SIMULTANEOUS COLLECTION OF FULLSCAN EI AND MSMS DATA ON A
BENCHTOP ION TRAP GCMS**

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GCMSMS has been shown to be a very useful analytical technique for the improvement of selectivity and sensitivity in trace analyses as well as for structural elucidation. MSMS gives greater confidence in both identification and quantitation of analytes at trace levels, and can also minimize sample preparation in difficult matrices.

Ion trap technology allows MSMS to be carried out in time within one mass analyzer on a benchtop instrument, with all of full scan EI, CI, EI-MSMS, CI-MSMS, MRM and MSⁿ being time programmable within one chromatographic run.

This paper describes a new function of ion trap Technology whereby full scan EI and MSMS data can be simultaneously acquired. This allows target identification and quantitation by MSMS as well as screening for unknowns by full scan MS to be done in one analysis. Element specific data can also be acquired using additional detectors. These functions are illustrated with examples of trace pesticide analyses and drug analyses.