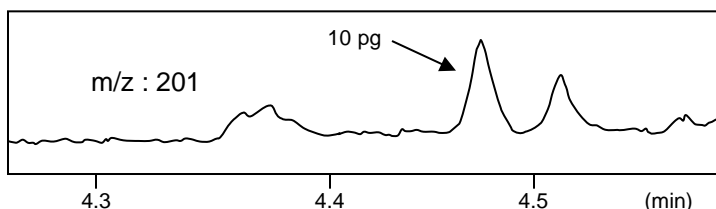
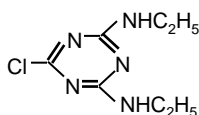


Analysis of Agricultural Chemicals (Shimazine & Thiobencarb) Using Ultra ALLOY-1(S) Column for Trace Amount Analysis

Ultra ALLOY-1(S) column (solid phase: dimethylpolysiloxane) has been specifically designed for analysis of trace amount of chemicals. During the manufacturing process, extremely high degree of deactivation treatments has been done on the inner surface of the column prior to deposition of the solid phase. Before we ship these columns, several nanograms of polar test samples such as amines and phenols are injected into each column, and all the peak shapes are checked to see if they meet the specifications. Because these polar species tend to undergo decomposition and adsorption at active spots, when injected, a highly deactivated insert should be used. We have highly deactivated quartz inserts available (Part No. GC1-2215, for Agilent GCs), made by our proprietary deactivation technology developed for Ultra ALLOY columns (see: Ultra ALLOY Column Application Note No. UAA-005E). Use of these column and insert makes possible the analysis of ultra trace amount of residual agricultural chemicals or pharmaceuticals.

Simazine



Thiobencarb

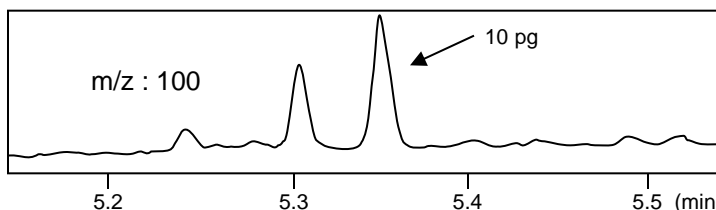
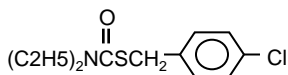


Fig.1 Analysis of Agricultural Chemicals (Shimazine & Thiobencarb) Using Ultra ALLOY-1(S) Column for Trace Amount Analysis

Column : Ultra ALLOY[®]-1(S) (dimethylpolysiloxane)
 Length : 15m, Id 0.25mm, Film thickness: 0.25µm
 Oven temp. : 60-300°C at 15°C/min
 Injector : Splitless, Detector : MS, SIM Mode, Carrier gas: He, 30cm/s
 Sample size : 10ppb, 1.0µL

Keywords : Ultra Trace Polar Chemical Analysis, Deactivated Quartz Insert

Products used : Multi-functional pyrolyzer, Ultra ALLOY[®]-1 (S)

Applications : Analysis of Agricultural Chemicals, Analysis of Pharmaceuticals, Ultra Trace Analysis

Related technical notes :

Please forward your inquiries via our web page or send us a fax message.

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