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2.3.3 US EPA Legislation 2.4 METHOD VALIDATION AND QUALITY CONTROL PROCEDURES FOR PESTICIDE RESIDUES ANALYSIS; 2.4.1 CAC Guidelines; 2.4.2 EU Guidelines: SANCO Document; 2.4.3 FDA and EPA Guidelines; REFERENCES; Chapter 3 Advanced Sample Preparation Techniques for MS Analysis; 3.1 INTRODUCTION; 3.2 CONVENTIONAL EXTRACTION AND CLEANUP PROCEDURES; 3.2.1 LLE; 3.2.2 SPE; 3.2.3 MSPD; 3.2.4 QuEChERS; 3.3 MICROEXTRACTION TECHNIQUES; 3.3.1 Sorbent-Based Microextraction Techniques; 3.3.2 Liquid-Based Microextraction Techniques; 3.4 ALTERNATIVE EXTRACTION AND CLEANUP PROCEDURES  
3.4.1 Alternative Energy Sources to Enhance the Extraction 3.4.2 Coupled-Column Liquid Chromatography (LC/PC, LC/LC Techniques); 3.4.3 Direct Analysis in Real Time; 3.5 CONCLUSIONS;  
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5.2.2 Hydrophilic Interaction Liquid Chromatography

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Sommario/riassunto

Provides an overview of the use of mass spectrometry (MS) for the analysis of pesticide residues and their metabolites. Presents state of the-art MS techniques for the identification of pesticides and their transformation products in food and environment Covers important advances in MS techniques including MS instrumentation and chromatographic separations (e.g. UPLC, HILIC, comprehensive GCxGC) and applications Illustrates the main sample preparation techniques (SPE, QuEChERS, microextraction) used in combination with MS for the analysis of pesticides Describes various established and new

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