

3-Naphtoylindazoles and 2-naphtoylbenzoimidazoles as novel groups of synthetic cannabinoids: structure, analytical properties and identification of the first representative of this classes in the smoking mixtures, and the same metabolites in urea

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Abstract

Structures of novel synthetic cannabinoids were detected by the methods of LC/MC, including high resolution, high-performance liquid chromatography with tandem spectrometry of high resolution, NMR and IR spectroscopy. The obtained analytic characteristics of (naphtoyl-1)[1-(5-fluoropentyl)-1H-indazol-3-yl]methanone, (naphtoyl-1)(1-pentyl-1H-benzoimidazol-2-yl)methanone and (naphtoyl-1)[1-(5-fluoropentyl)-1H-benzoimidazol-2]methanone allow to identify these compounds in the qualitative analysis of objects of examination of drugs, including smoking blends.

The metabolites of (naphtoyl-1)[1-(5-fluoropentyl)-1H-indazol-3-yl]methanone were found and identified by the chemical and toxicological analysis of tests of urine of consumers of smoking blends. The spectrometric data of these metabolites are presented.