298.
Accession number:20112814144275
Title:Comparison of spectra of materials measured by time domain and fourier transform spectroscopy in terahertz range
Authors:Palka, Norbert (1); Szustakowski, Mieczyslaw (1); Trzcinski, Tomasz (1); Mozdzonek, Malgorzata (2)
Author affiliation:(1) Institute of Optoelectronics, Military University of Technology, Kaliskiego 2, 00-908 Warszawa, Poland; (2) Institute of Electronic Materials Technology, Wolczynska 133, 01-919 Warszawa, Poland
Corresponding author:Palka, N.(npalka@wat.edu.pl)
Source title:Photonics Letters of Poland
Abbreviated source title:Photonics Lett. Pol.
Volume:3
Issue:2
Issue date:2011
Publication year:2011
Pages:76-78
Language:English
E-ISSN:20802242
Document type:Journal article (JA)
Publisher:Photonics Society of Poland, Koszykowa 75, Warsaw, 00-662, Poland
Abstract:Absorption spectra in THz range of commonly used explosive materials - Hexogen, Penthrite, Octogen and Sugar are presented. Explosives were prepared as pellets, where Teflon was applied as a matrix material. The measurements were carried out by means of Time Domain Spectroscopy and compared to spectra obtained by Fourier Transform Spectroscopy. Good conformity is observed. We also present spectra of cotton and paper as well as RDX hidden under cotton.
Number of references:5