280.
Accession number:20113714319003
Title:Broadband THz pulse transmission through the atmosphere
Authors:Yang, Yihong (1); Mandehgar, Mahboubeh (1); Grischkowsky, Daniel R. (1)
Author affiliation:(1) School of Electrical and Computer Engineering, Oklahoma State University, Stillwater, OK 74078, United States
Corresponding author:Yang, Y.(daniel.grischkowsky@okstate.edu)
Source title:IEEE Transactions on Terahertz Science and Technology
Abbreviated source title:IEEE Trans. Terahertz Sci. Technolog.
Volume:1
Issue:1
Issue date:September 2011
Publication year:2011
Pages:264-273
Article number:6005330
Language:English
ISSN:2156342X
Document type:Journal article (JA)
Publisher:IEEE Microwave Theory and Techniques Society, 2458 East Kael Circle, Mesa, AZ 85213, United States
Abstract: We have transmitted a low-power beam of repetitive broad-band THz pulses the record distance of 167 m through the atmosphere at 50% relative humidity and have observed the broadened transmitted pulses with a signal to noise ratio greater than 200.
Number of references:23