The results of the THz spectroscopy measurements are shown in the diagram in Fig. 5. Four measurement results are presented in the same figure for a comparison: (1) the absorbance of pure ethyl alcohol, (2) histidine dissolved in alcohol, (3) the difference between pure alcohol and the saturated solution of histidine, and (4) the spectrum of the polycrystalline form of the histidine sample. The diagram is prepared for two systems of units: frequency in terahertz (THz) and inversed centimeters (). The spectra are calculated from the absorbance of the samples:

,

where – transmittance of the investigated medium.

(Absorbance is the common logarithm of the ratio of incident to transmitted radiant power through a material).