Spectrum Lab - Conditional Action Script for Meteor Logging

Wolfgang Kaufmann, 2015 (based on a script of Simon Dawes)

The script registers signals that exceed an arbitrary threshold within an arbitrary frequency span. Level (dB), duration (number of cycles) and peak-frequency (Hz) of a detected signal are stored to a .csv-file together with date, time and noise level (dB). Also the signal is tested for frequency shift as a valuable criterion to identify interference. The result of this test also is stored to the .csv-file (TestC). After starting the script it determines the time period to run through the script and print the result on the screen (duration of one cycle in ms). The spectrum display is captured every 5 min and stored as a .jpg-file (set the scroll-rate of your spectrum display appropriate). FFT-output must be set to dB for correct results from this script (Spectrum Lab default). Frequency resolution of the FFT should be equal to or better than 2 Hz.

The script can be matched to your setup:
Line 4: adapt threshold (in dB above noise), frequency span of noise-measurement (Hz) and frequency span of signal detection (Hz).
Line 6: adapt the path for storing .csv- and .jpg-file.