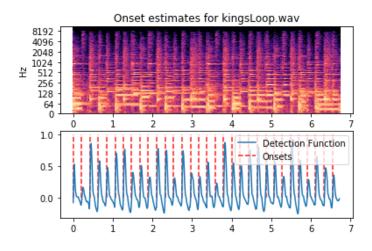
Lab 10 – Importing Data from Sonic Visualiser

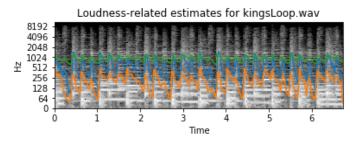
- 1. Run the following VAMP plugs in Sonic Annotator (see the instructions below) on the audio files kingsLoop.wav, avm.wav, mozartSeg.wav, and chopinSeg.wav (use the default settings)
 - a. Queen Mary plugin set (https://vamp-plugins.org/plugin-doc/qm-vamp-plugins.html)
 - i. Onsets: vamp: qm-vamp-plugins:qm-onsetdetector:onsets
 - ii. Smoothed detection function: vamp:qm-vamp-plugins:qm-onsetdetector:smoothed df
 - b. libxtract Vamp plugins (https://code.soundsoftware.ac.uk/projects/vamp-libxtract-plugins)
 - i. Loudness: vamp:vamp-libxtract:loudness:loudness
 - c. BBC Vamp Plugins (https://github.com/bbc/bbc-vamp-plugins/blob/master/README.md)
 - i. Intensity: vamp:bbc-vamp-plugins:bbc-intensity:intensity
 - ii. RMS: vamp:bbc-vamp-plugins:bbc-energy:rmsenergy
- 2. Import the audio and CSV files into Python to produce
 - a. an audio file for each of the listed audio files with the original audio on one channel and the onset estimates on the other
 - b. the plots on pages 2-3 (ideally using some functions)

Sonic Annotator Instructions

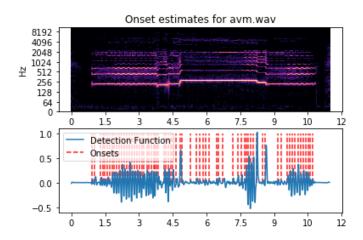
- For each plugin you will need to create a .n3 file, using the -s flag to specify a plugin. This allows you to batch process audio files with a particular plugin with particular settings (although for this assignment just use the default values)
 - o E.g., ./sonic-annotator -s vamp:bbc-vamp-plugins:bbcenergy:rmsenergy > rms.n3
- You will then need to put all of the audio file in the same directory and run each .n3 file
 on the directory using the -r flag to specify the directory, -t flag to specify the .n3 file,
 and the -w flag to specify csv (which writes to a CSV file)
 - E.g., ./sonic-annotator -r ~/Desktop/audioFiles/ -t rms.n3 -w csv

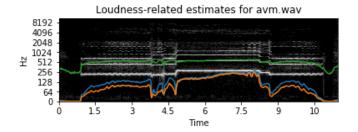
kingsloop.wav



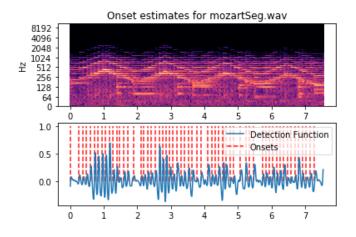


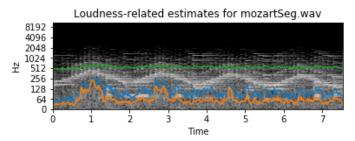
avm.wav





mozartSeg.wav





chopinSeg.wav

