








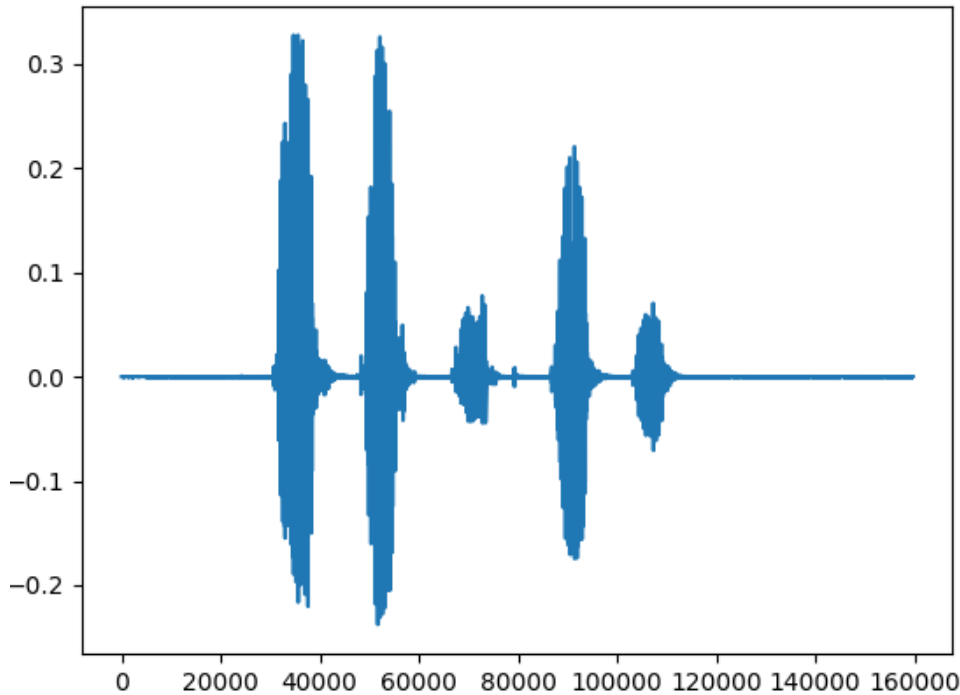


Instrukcja 10 - Analiza audio: Część pierwsza - proste parametry

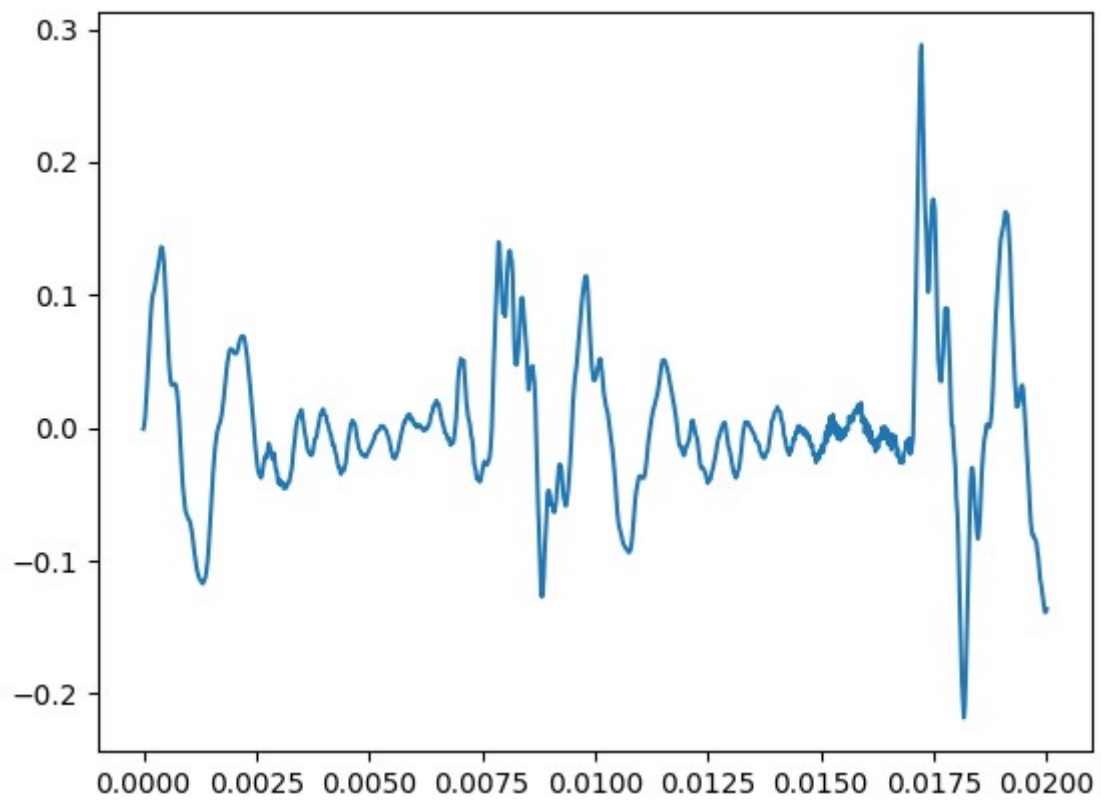
1. Baza dźwięków

|   |               |                |                   |
|---|---------------|----------------|-------------------|
|    | 50764_1_0.wav | wtorek o 21:46 | Piotr Jastrzębski |
|    | 50764_1_1.wav | wtorek o 21:46 | Piotr Jastrzębski |
|    | 50764_1_2.wav | wtorek o 21:46 | Piotr Jastrzębski |
|    | 50764_2_0.wav | wtorek o 21:46 | Piotr Jastrzębski |
|    | 50764_2_1.wav | wtorek o 21:46 | Piotr Jastrzębski |
|    | 50764_2_2.wav | wtorek o 21:46 | Piotr Jastrzębski |
|    | 50764_3_0.wav | wtorek o 21:46 | Piotr Jastrzębski |
|  | 50764_3_1.wav | wtorek o 21:46 | Piotr Jastrzębski |
|  | 50764_3_2.wav | wtorek o 21:46 | Piotr Jastrzębski |

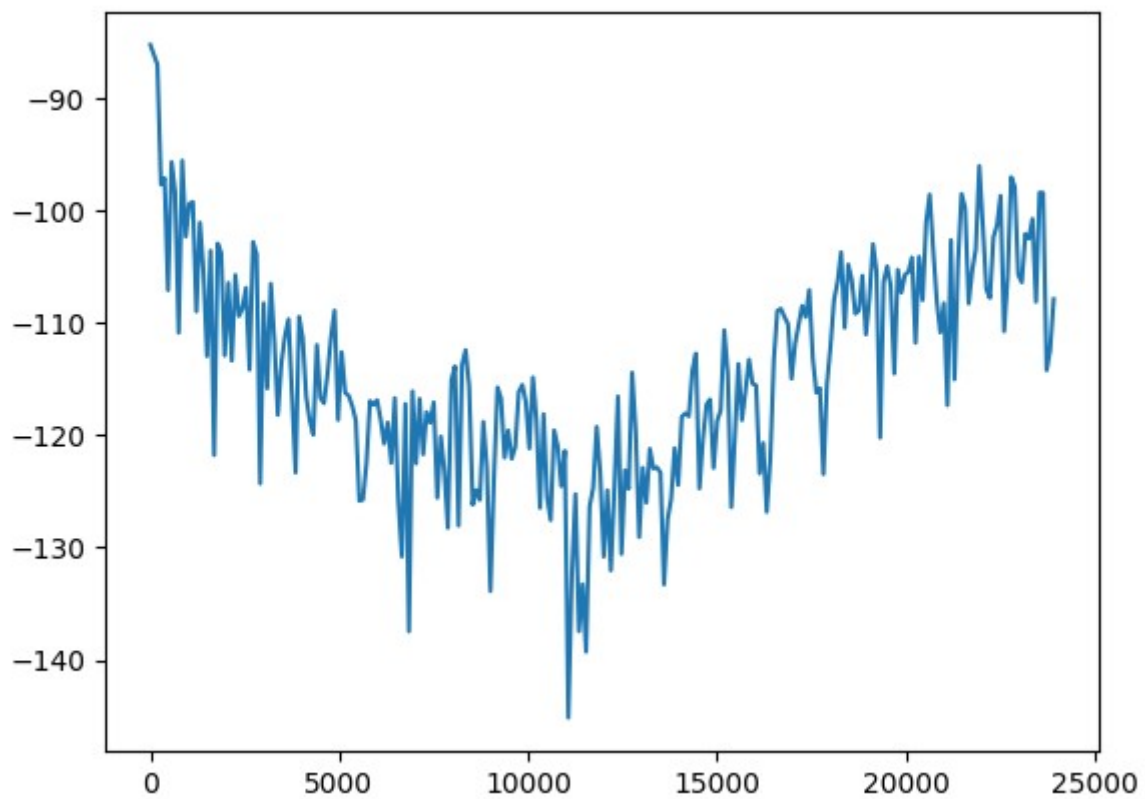
2. Dźwięk bazowy 50764\_1\_0.wav



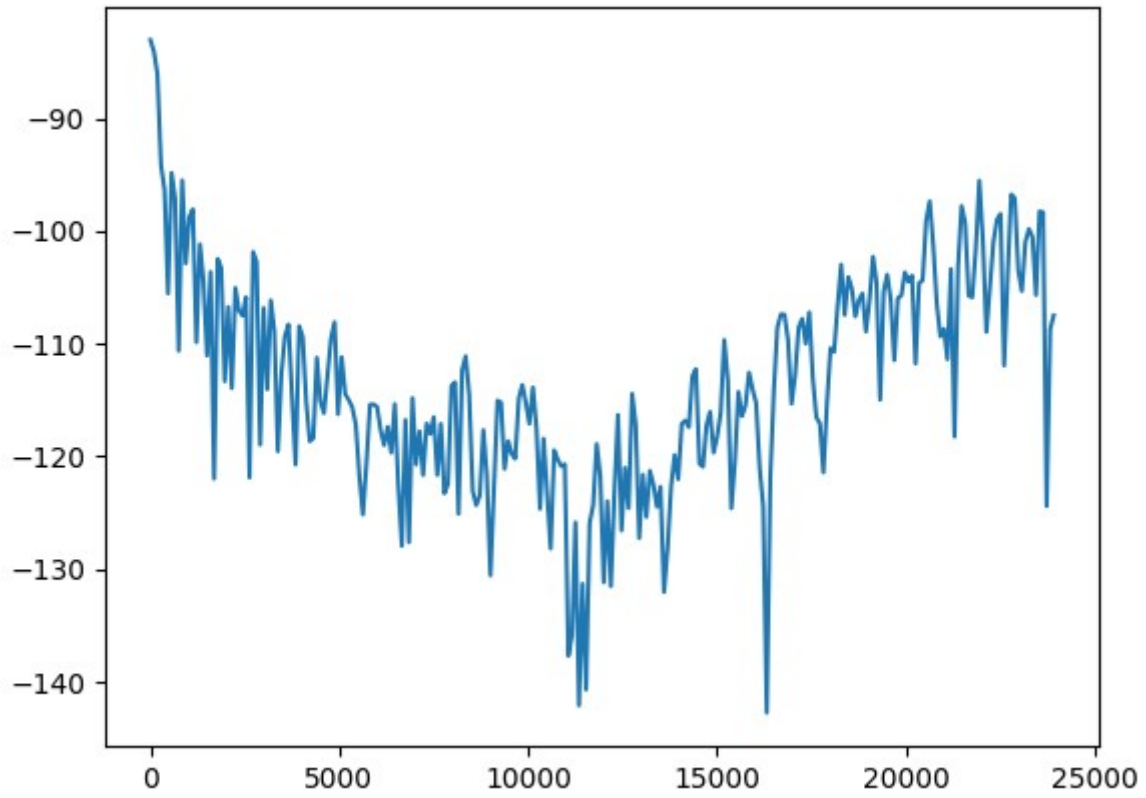
Wybrana ramka od próbki 35000 – litera "A":



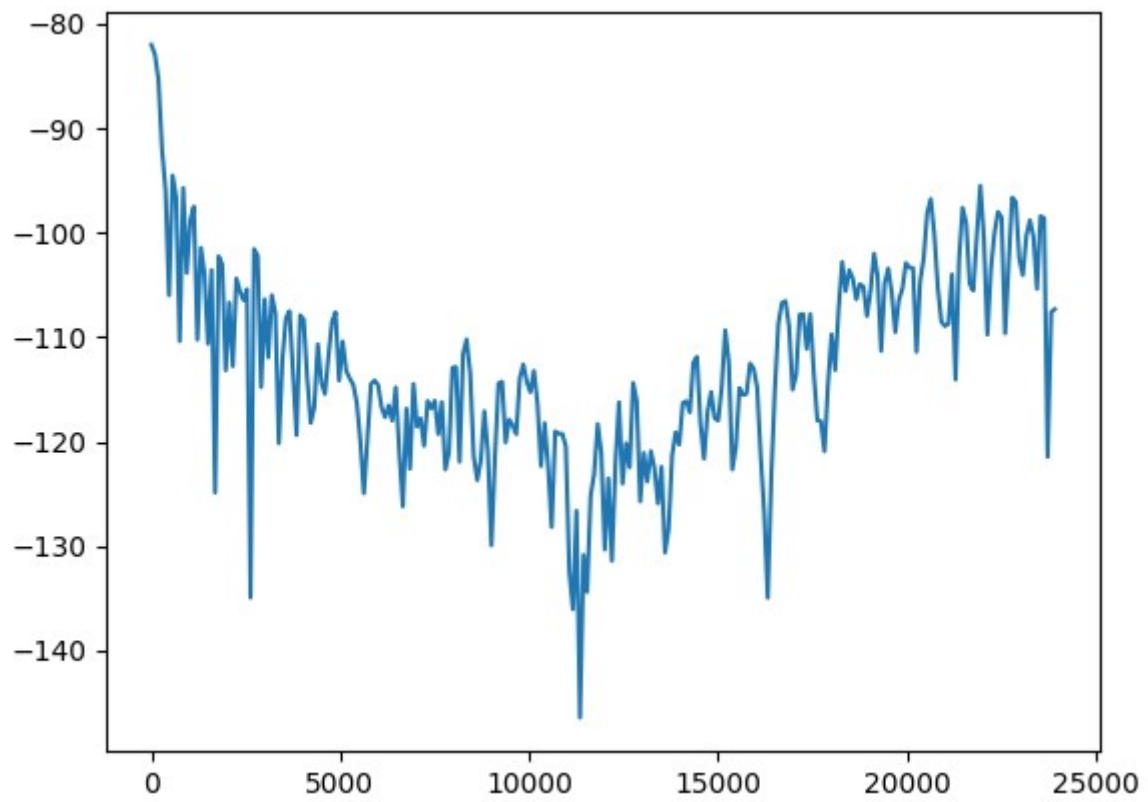
a) hamming



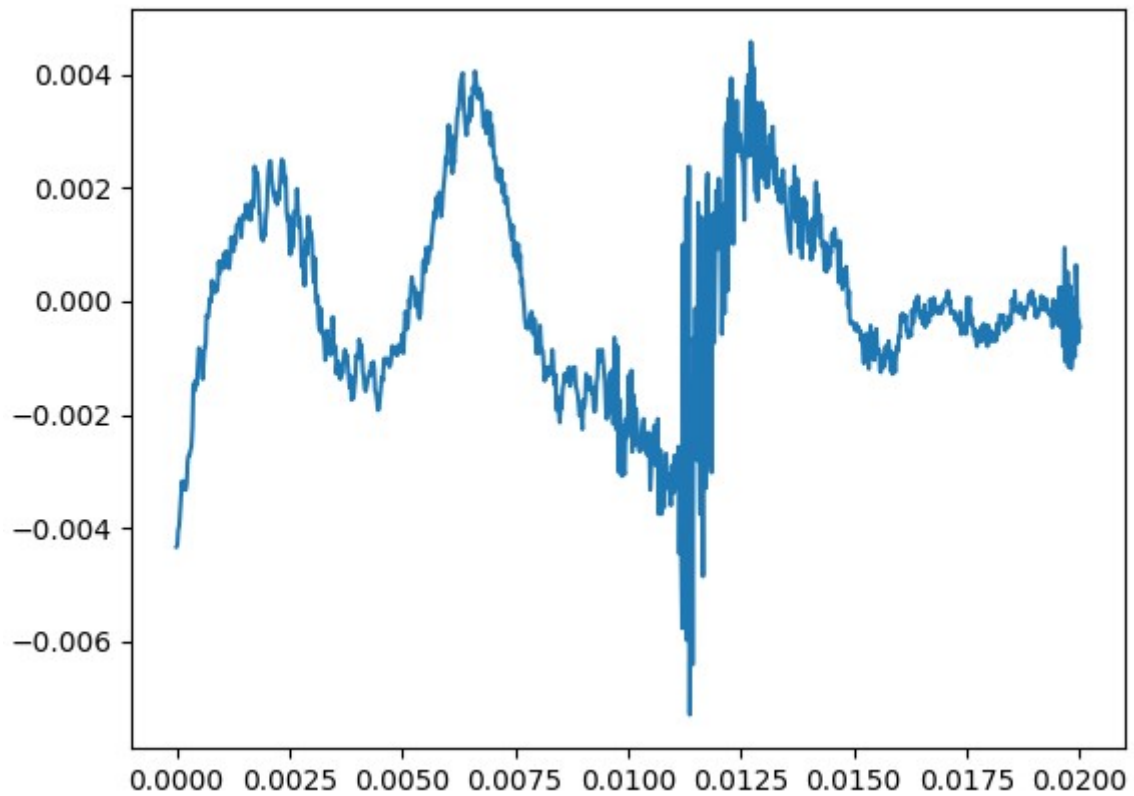
b) blackman



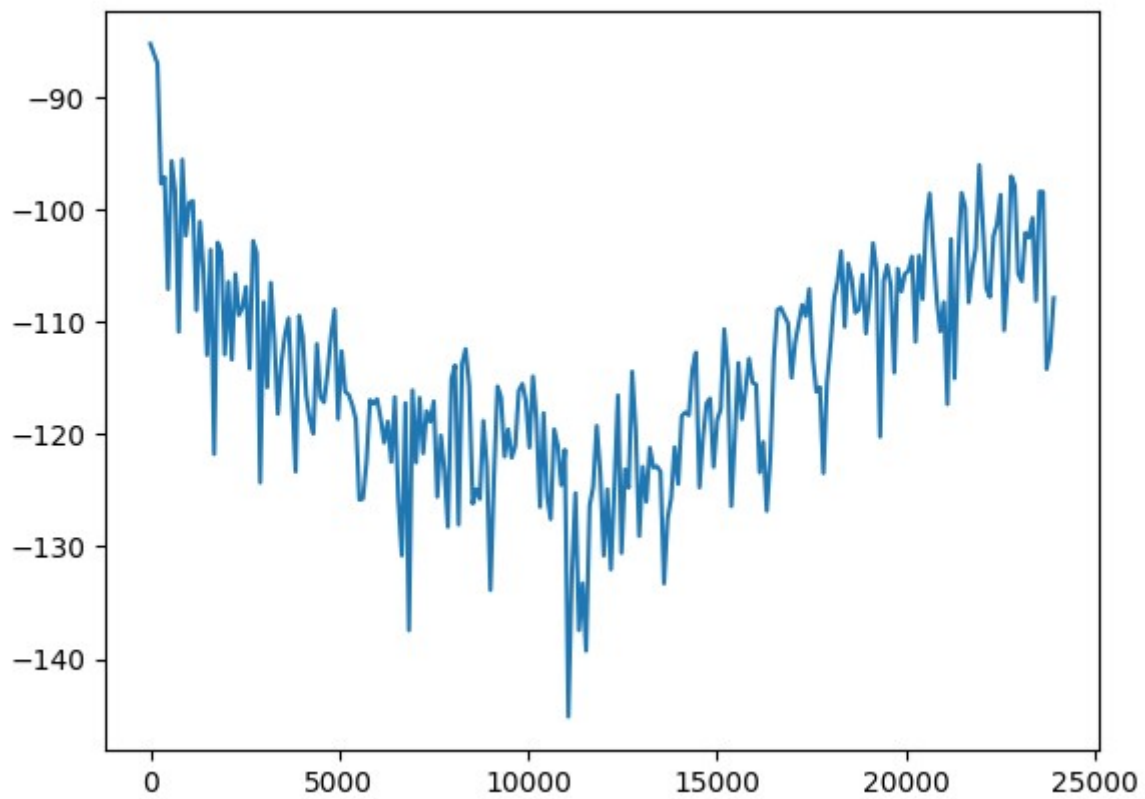
c) blackmanharris



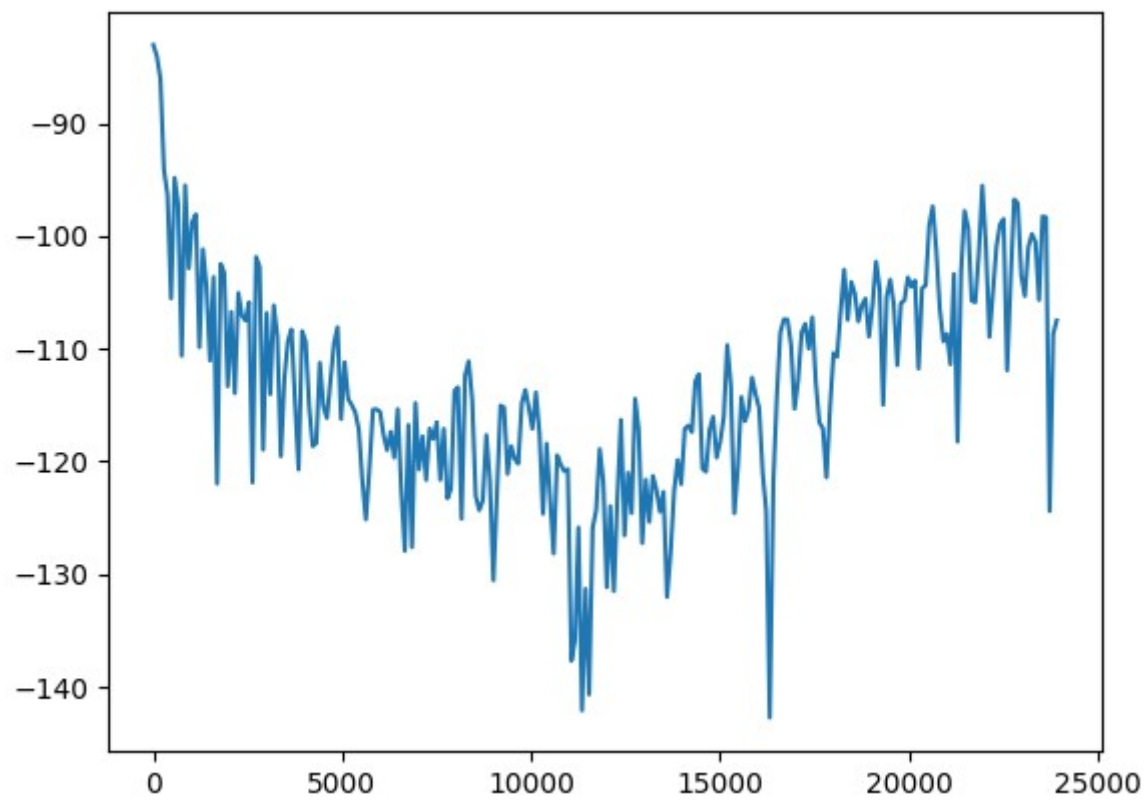
Wybrana ramka od próbki 52000 – litera "O":



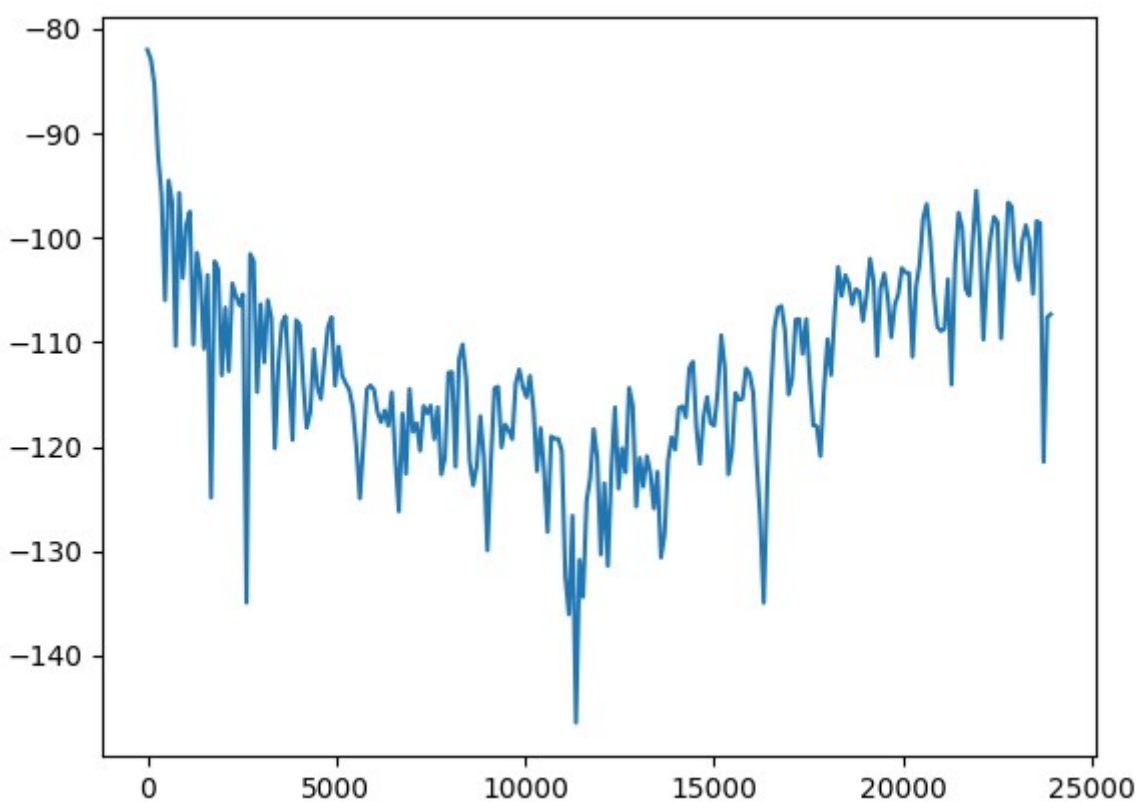
a) humming



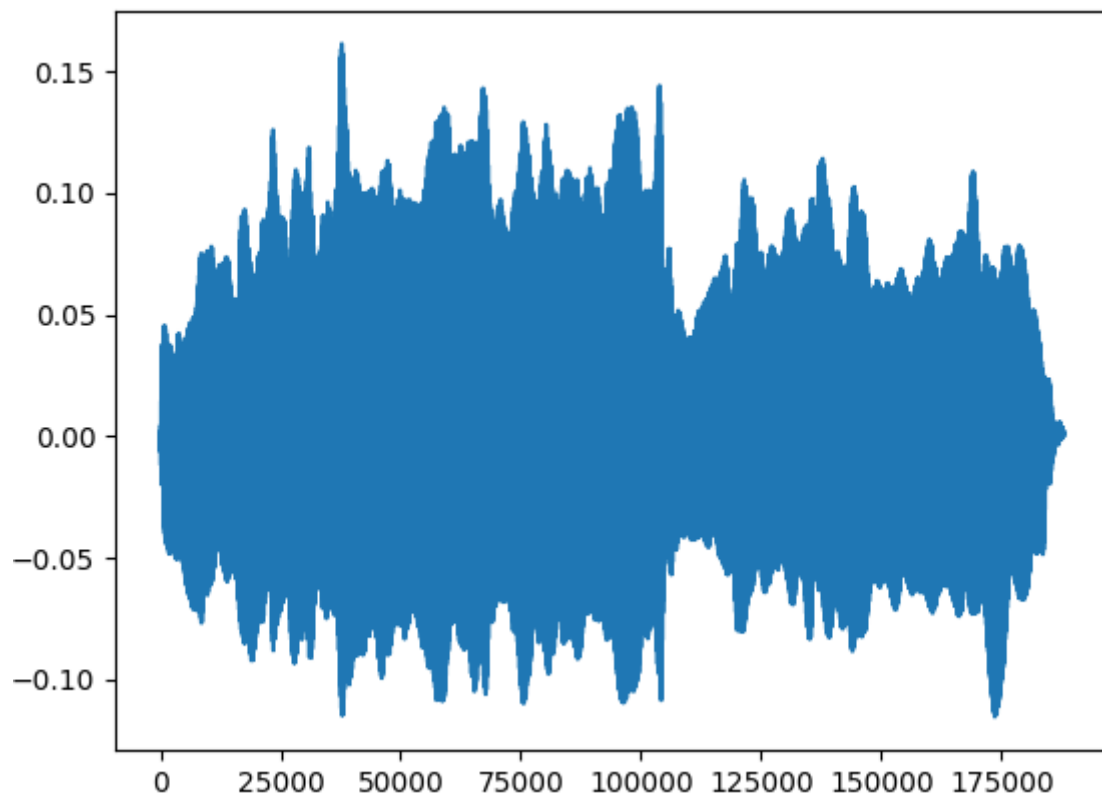
b) blackman



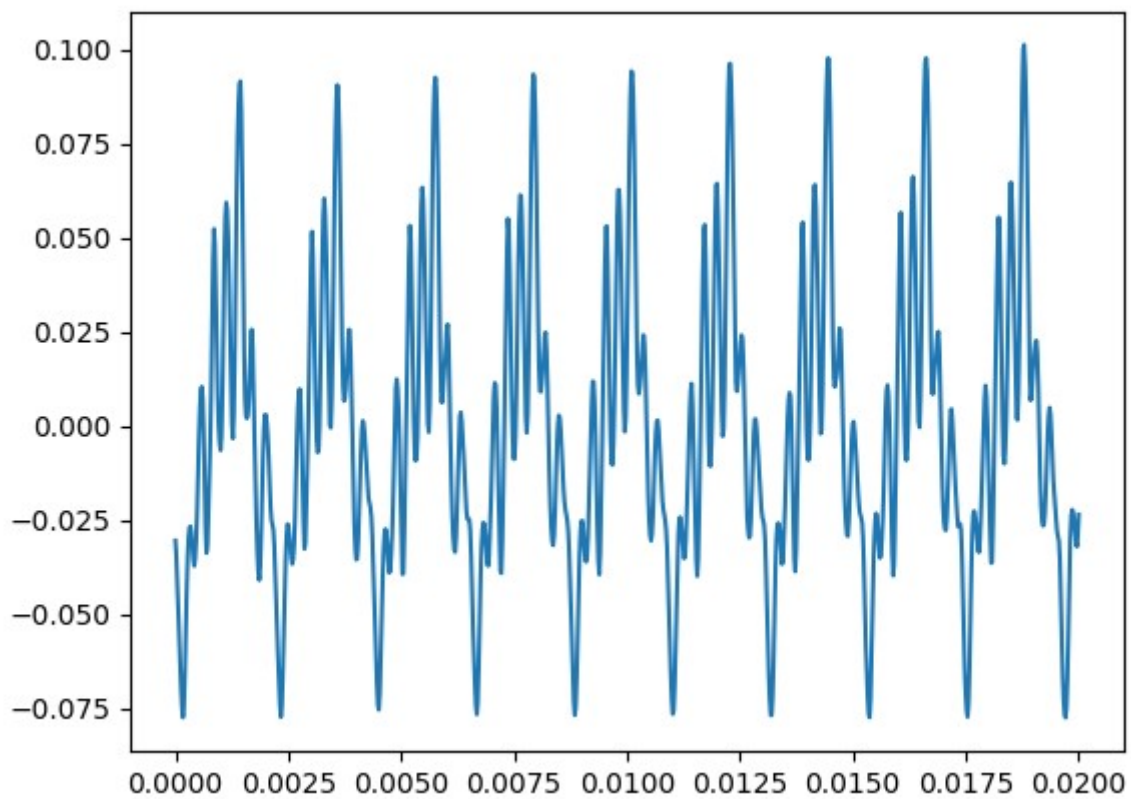
c) blackmanharris



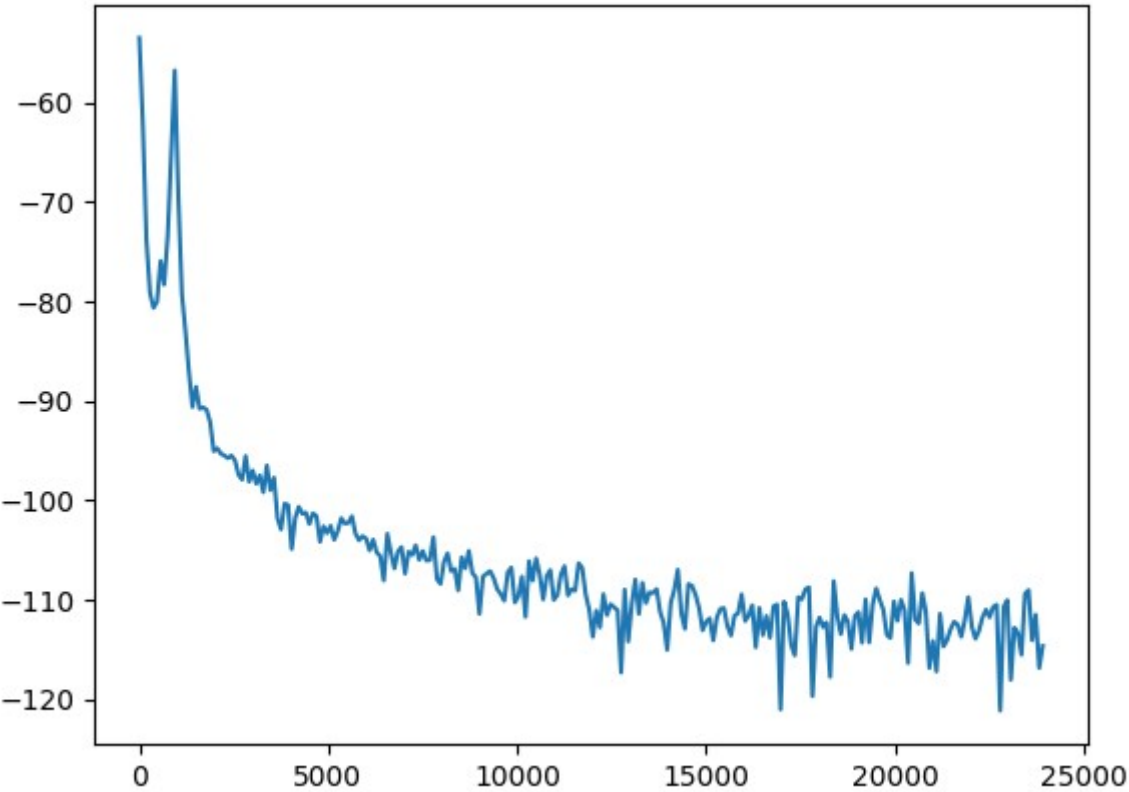
Dźwięk bazowy sing\_medium1.wav



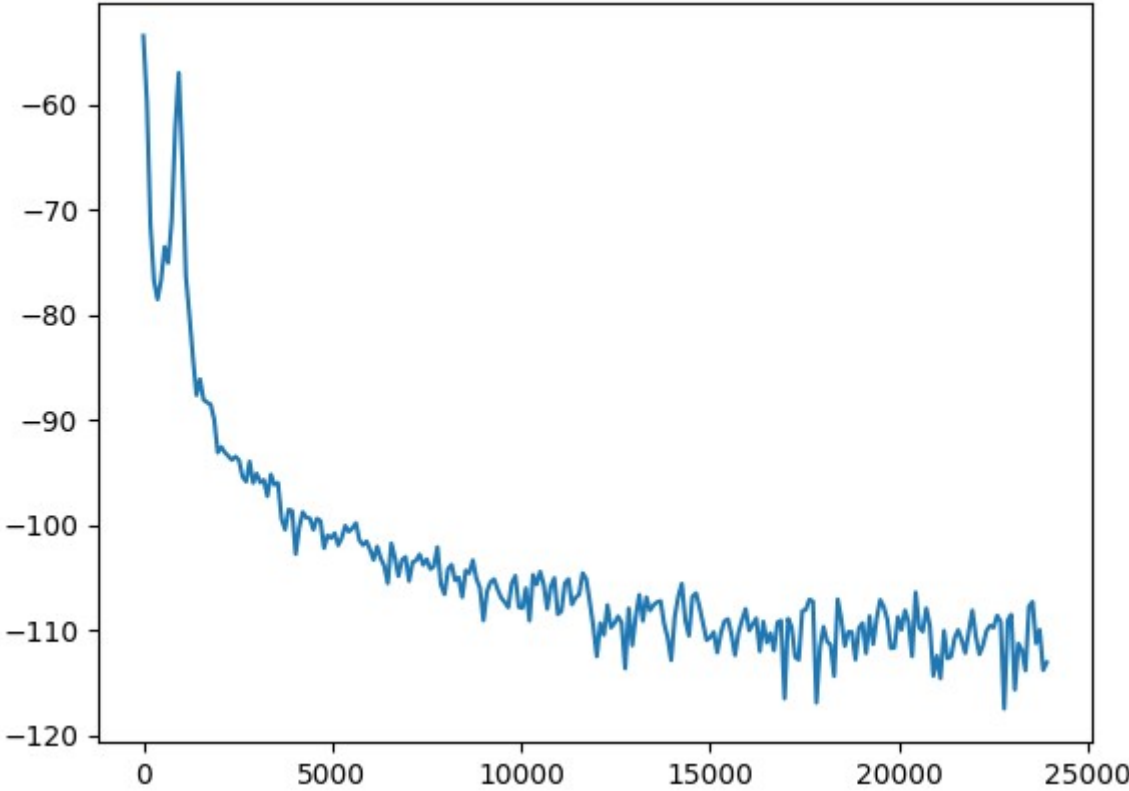
Wybrana ramka od próbki 40000:



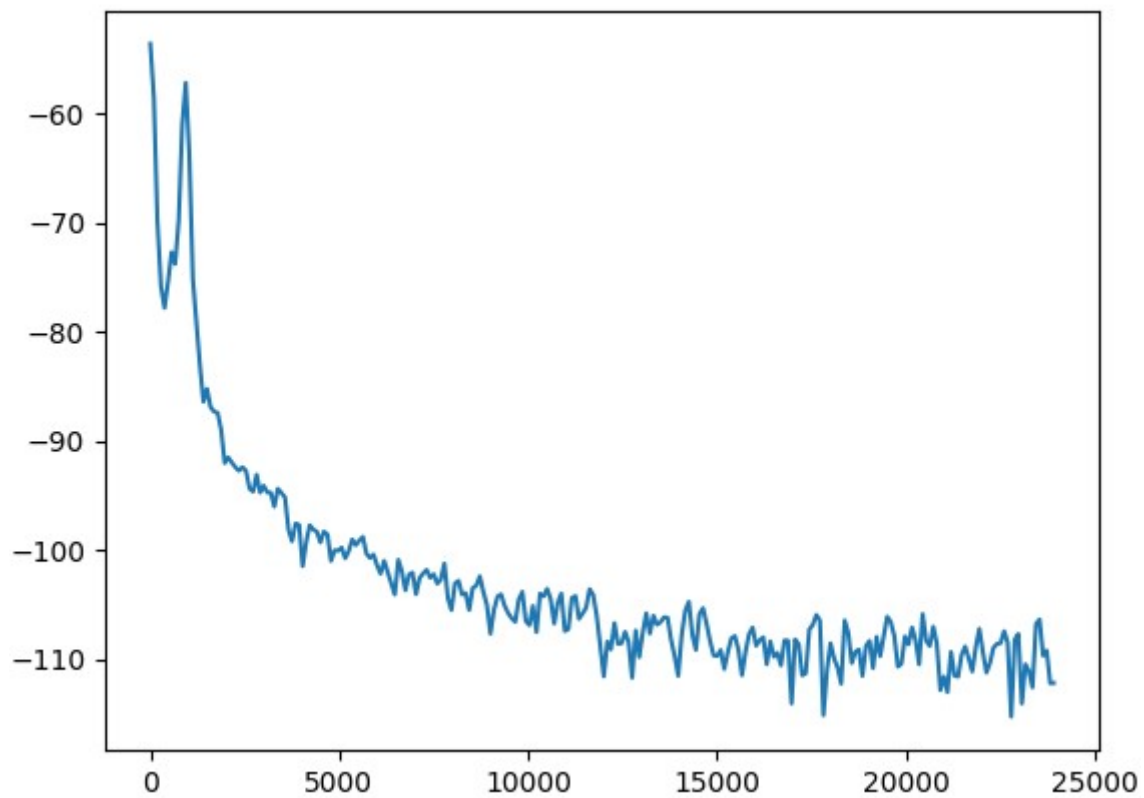
a) humming



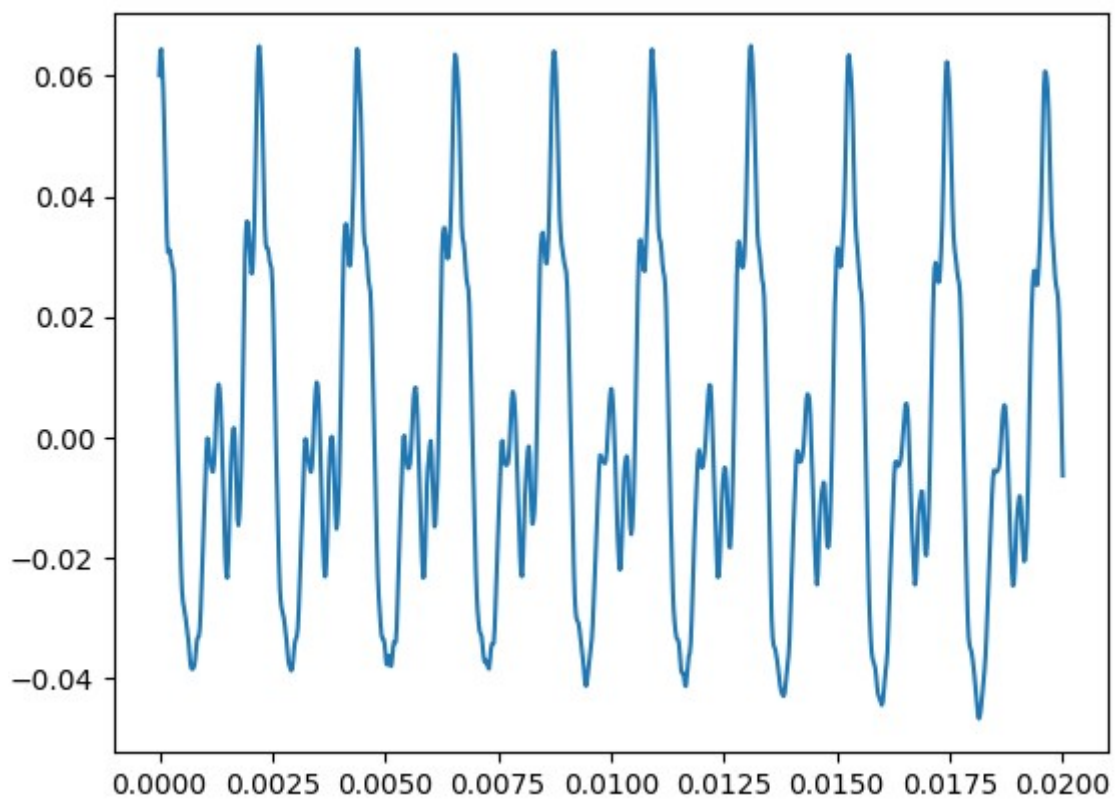
b) blackman



c) blackmanharris

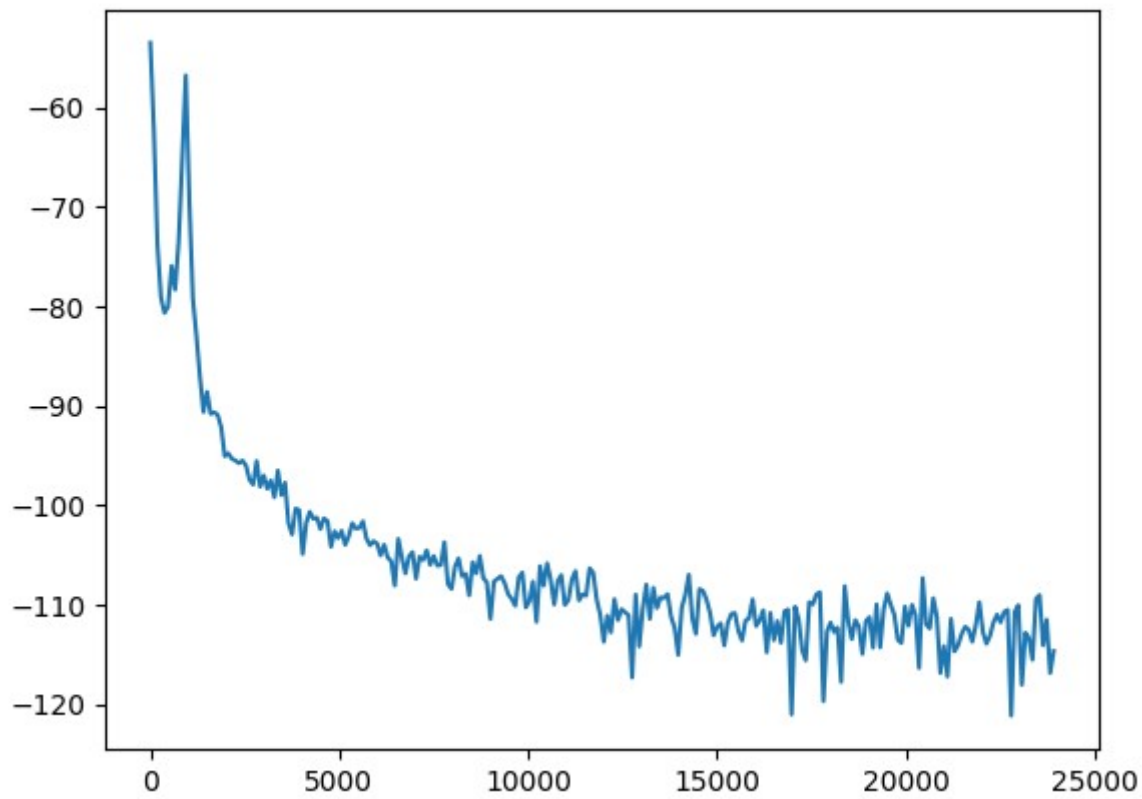


Wybrana ramka od próbki 94000:

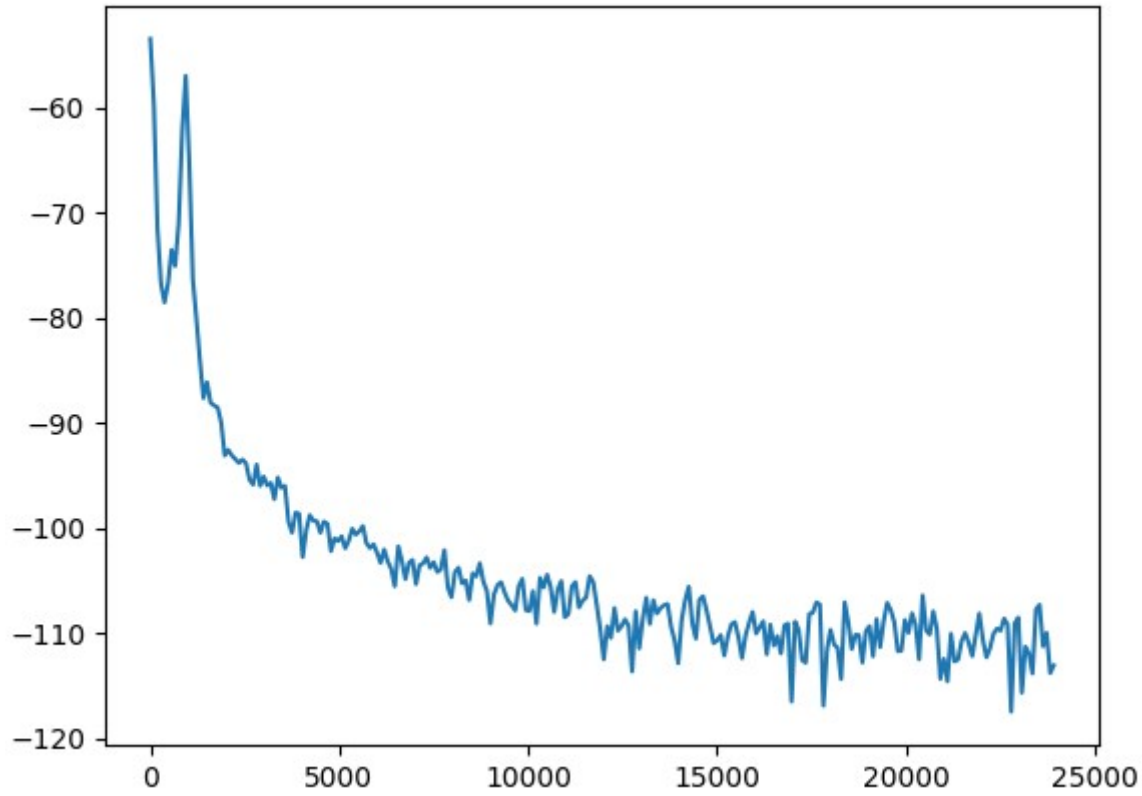




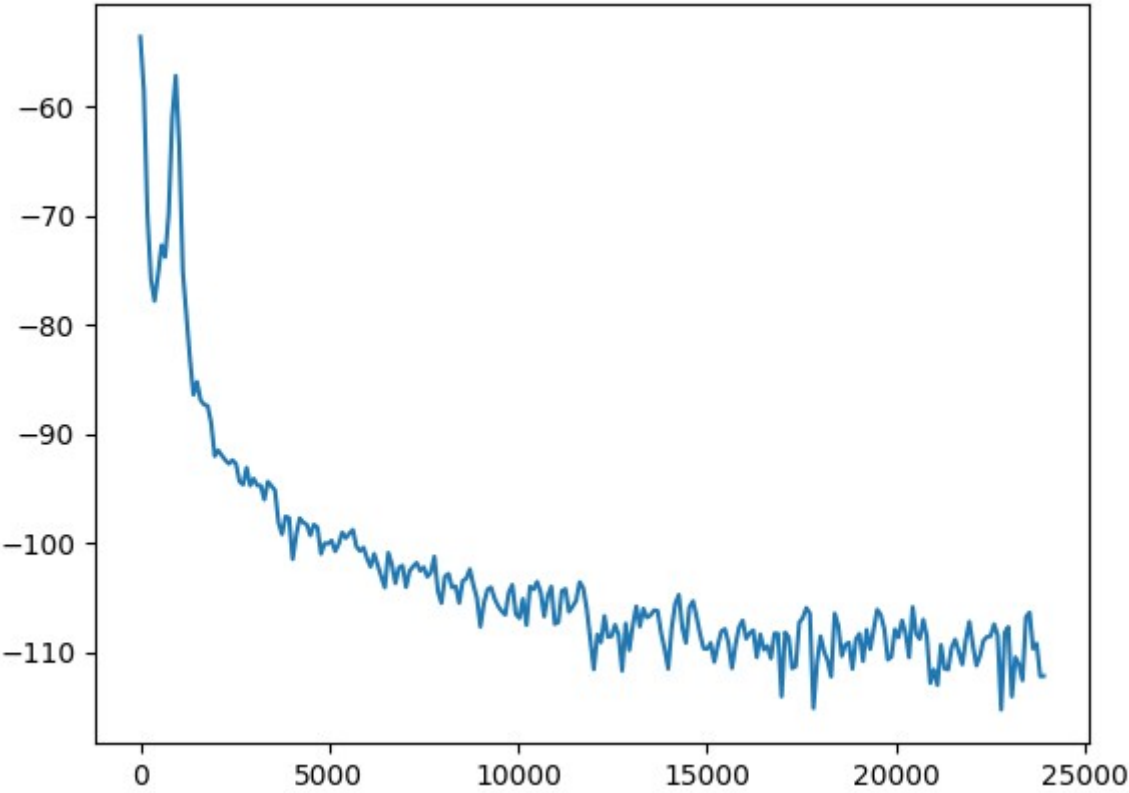
a) humming



b) blackman

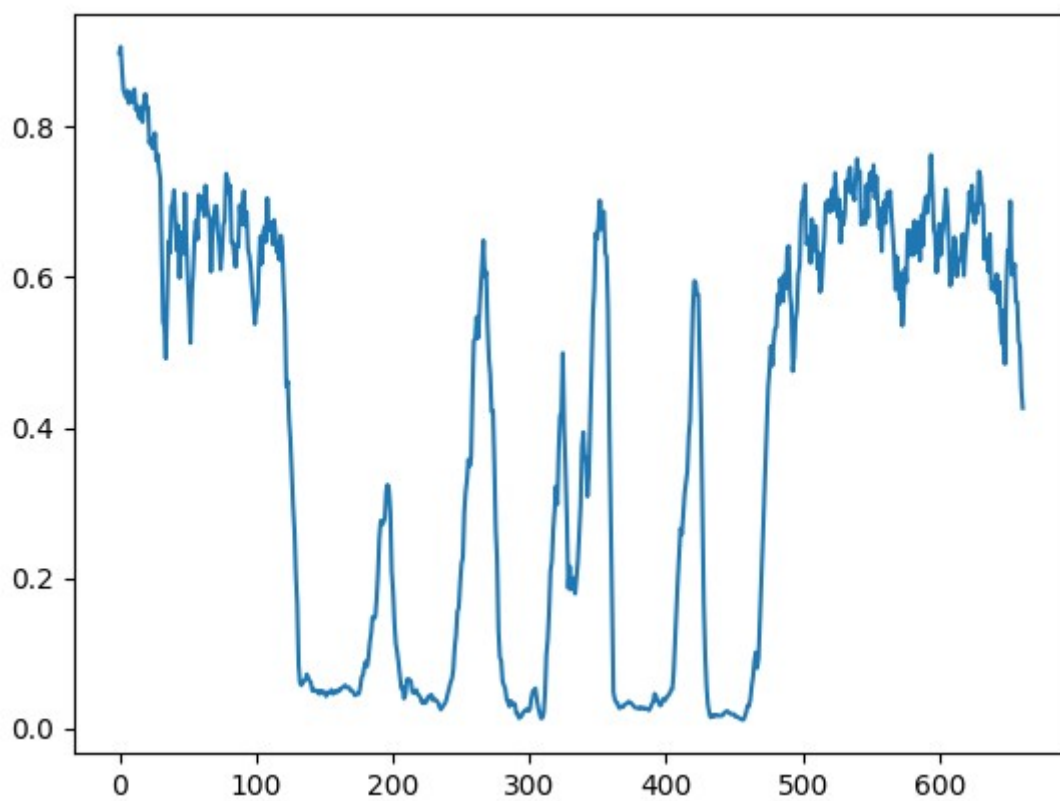


c) blackmanharris

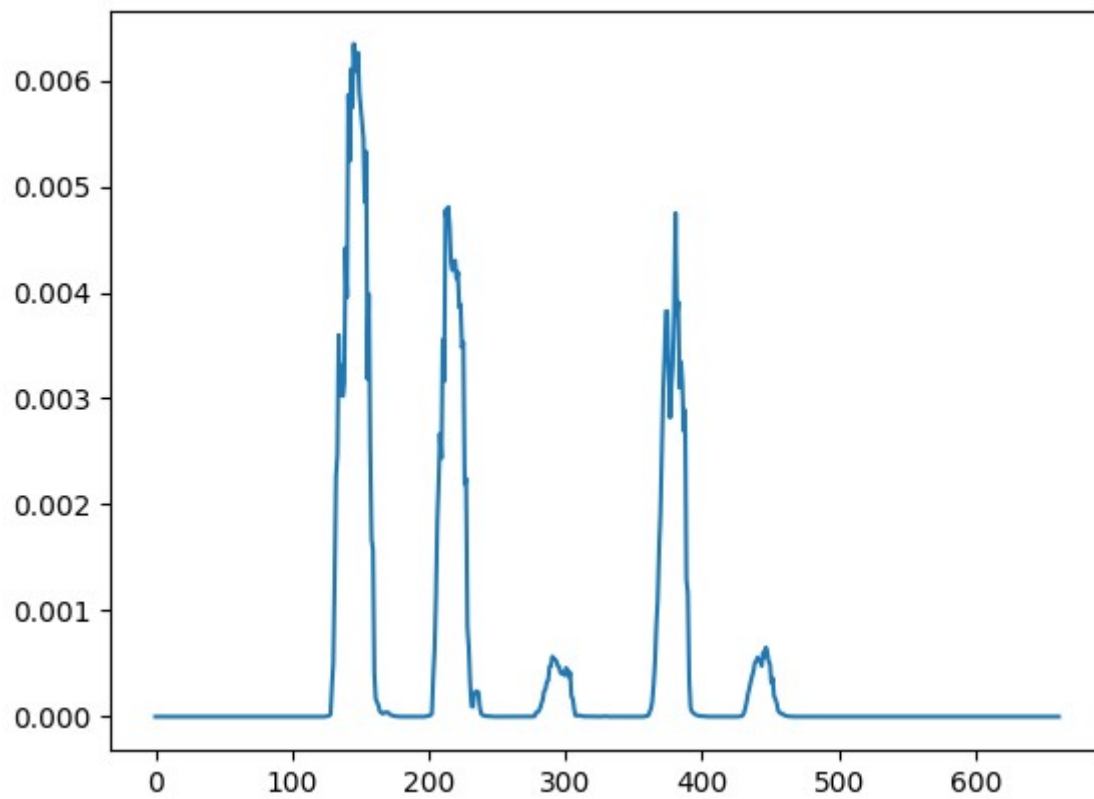


### 3. zcr, energy

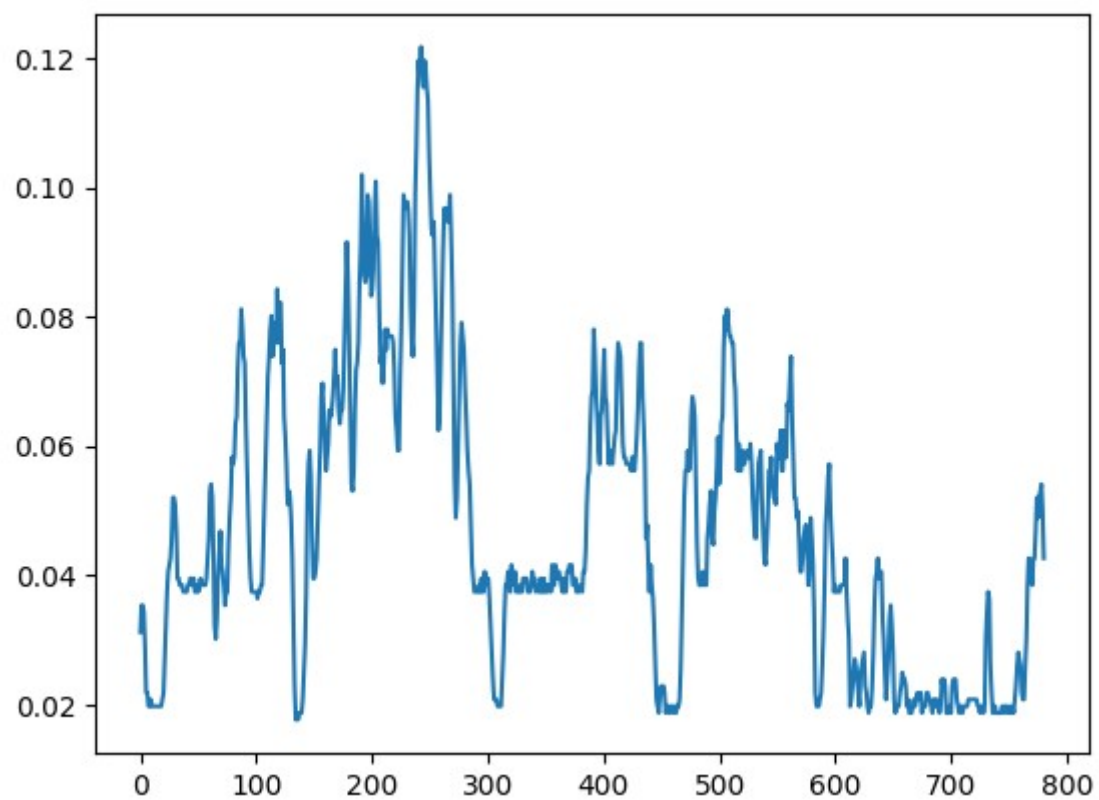
a) zcr dla 50764\_1\_0.wav



b) energy dla 50764\_1\_0.wav



c) zcr dla sing\_medium1.wav



d) energy dla sing\_medium1.wave

