Код программы:

[mp3, FS] = audioread('mp3.mp3');

[wav, FS] = audioread('wav.wav');

[ogg, FS] = audioread('ogg.ogg');

FftL = 146615;

FfMp3 = abs(fft(mp3, FftL));

FfMp3=2\*FfMp3./FftL;

FfMp3(1) = FfMp3(1)/2;

FfWaav = abs(fft(wav, FftL));

FfWav=2\*FfWaav./FftL;

FfWav(1) = FfWav(1)/2;

FfOgg = abs(fft(ogg, FftL));

FfOgg=2\*FfOgg./FftL;

FfOgg(1) = FfOgg(1)/2;

F=0:FS/FftL:FS/2-1/FftL;

subplot(3,1,1);

plot(F, FfMp3(1:length(F)));

subplot(3,1,2);

plot(F, FfWav(1:length(F)));

subplot(3,1,3);

plot(F, FfOgg(1:length(F)));

figure

plot(mp3);

figure

plot(wav);

figure

plot(ogg);

figure

subplot(3,1,1);

plot(abs(fft(mp3)));

subplot(3,1,2);

plot(abs(fft(wav)));

subplot(3,1,3);

plot(abs(fft(ogg)));