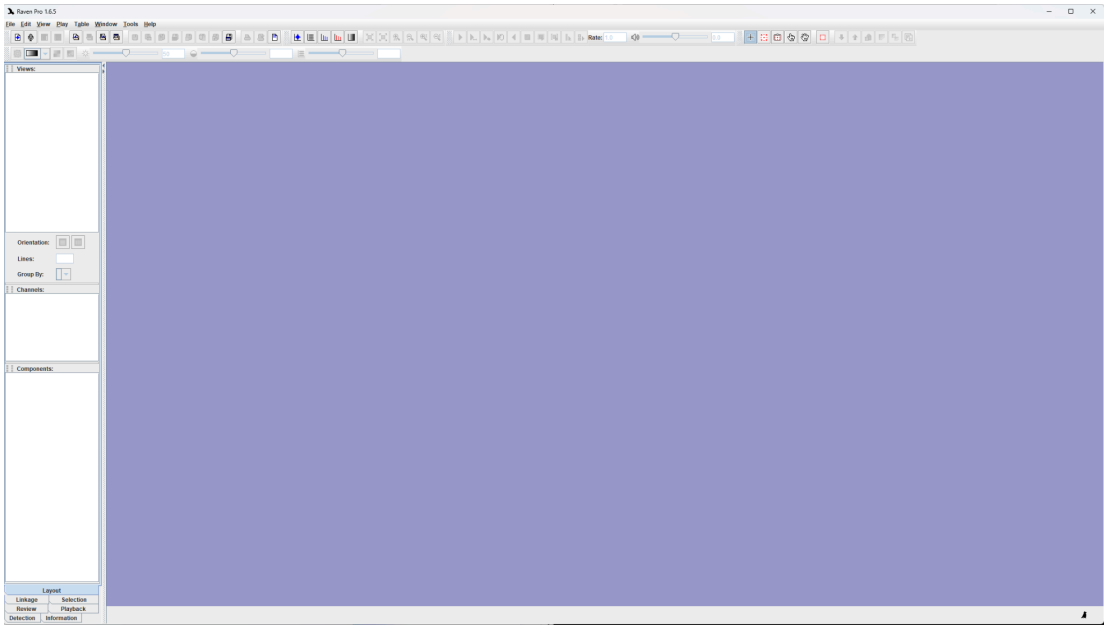
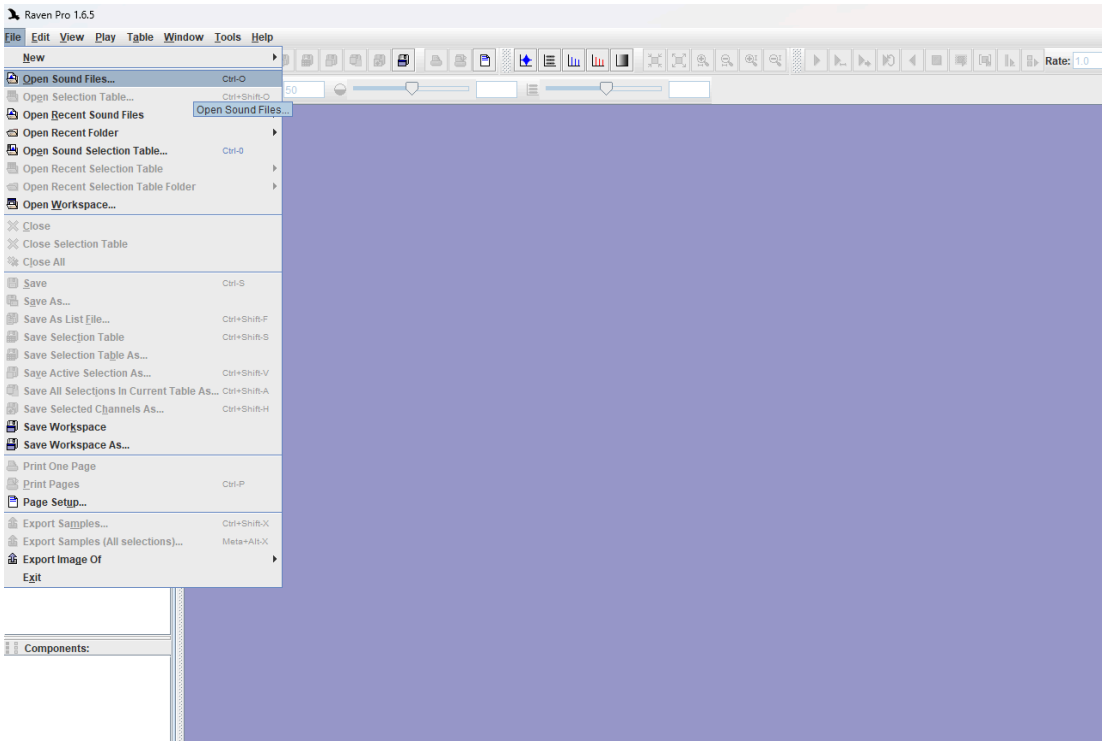
Directions for Audio Annotations

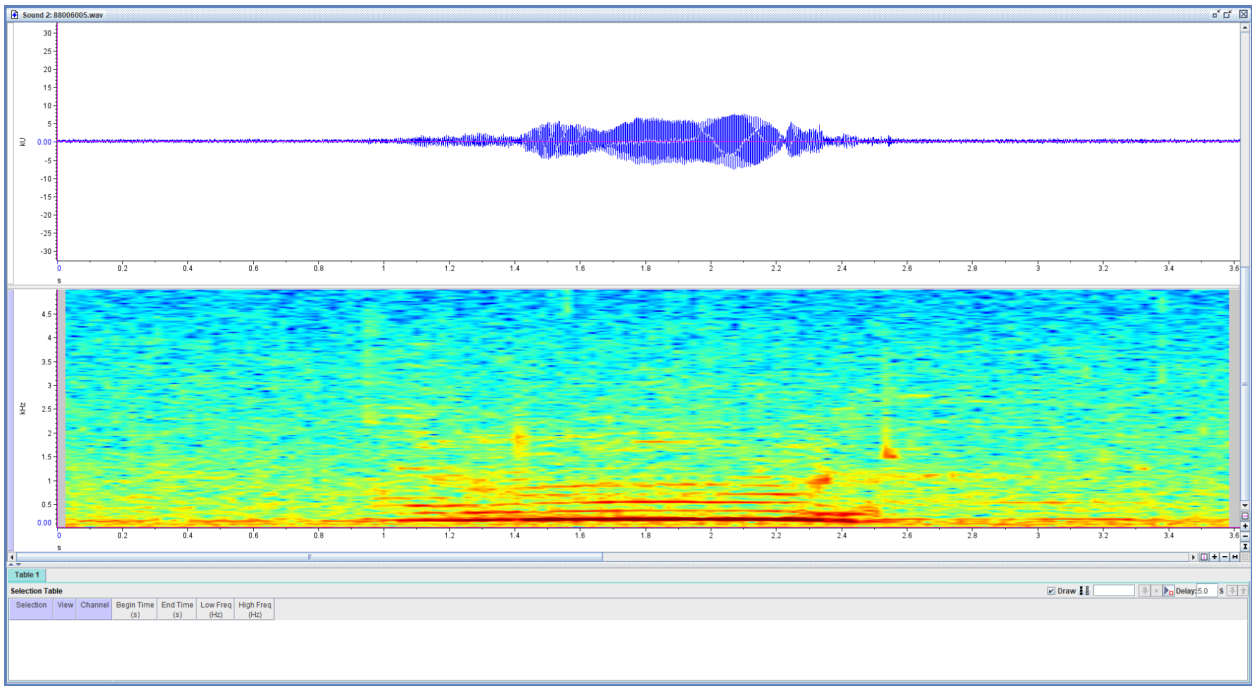
1. Collect wav files
2. Get access to Raven Pro (purchase if necessary or ask for permission from Cornell)
    a. This is an example of the Raven Pro interface



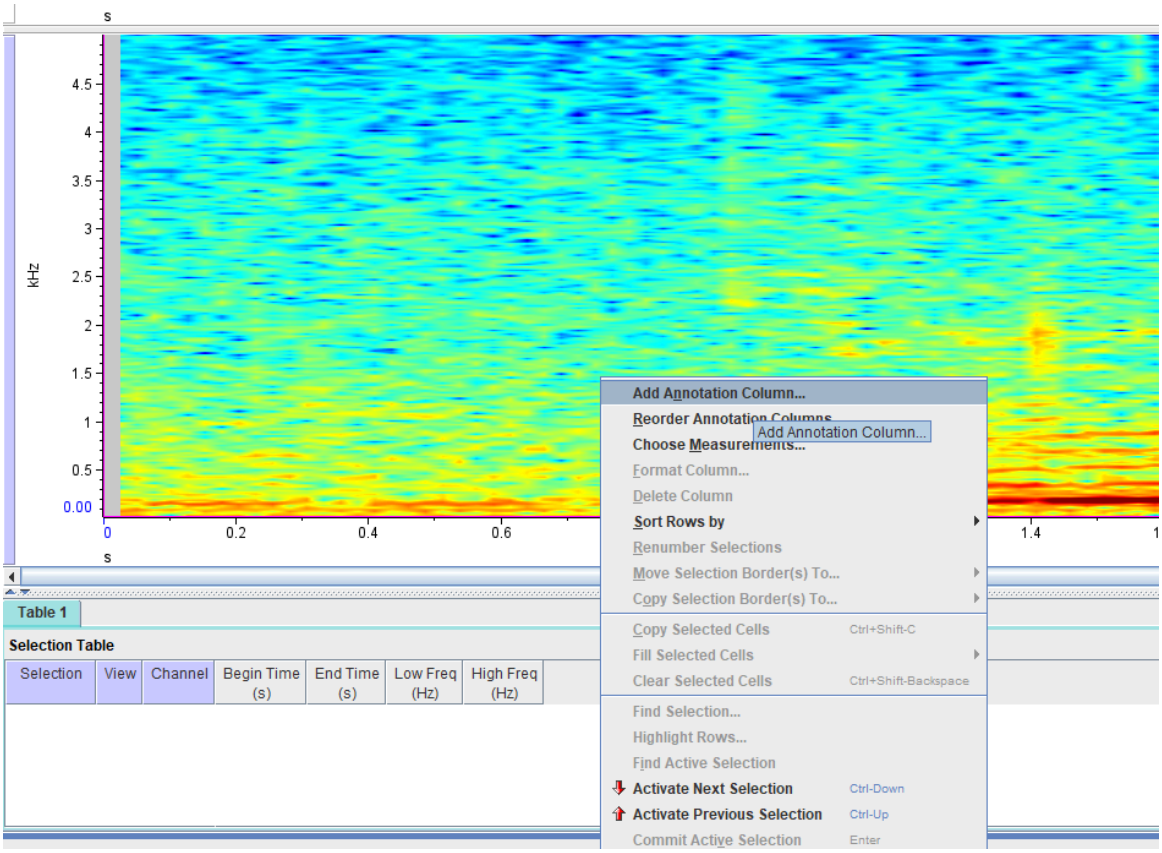
3. To open the sound file click File > Open Sound File (Shortcut: Ctrl-O)



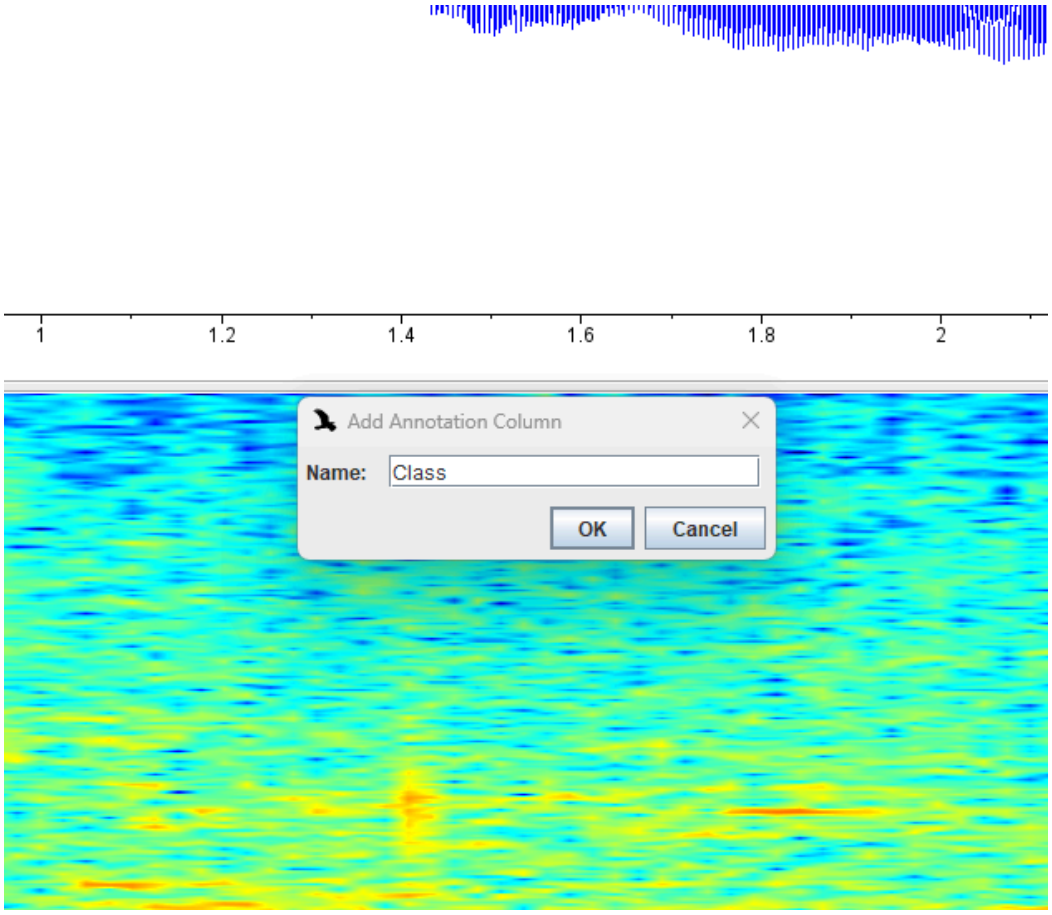
4. When a sound file is open, this is what it's like.



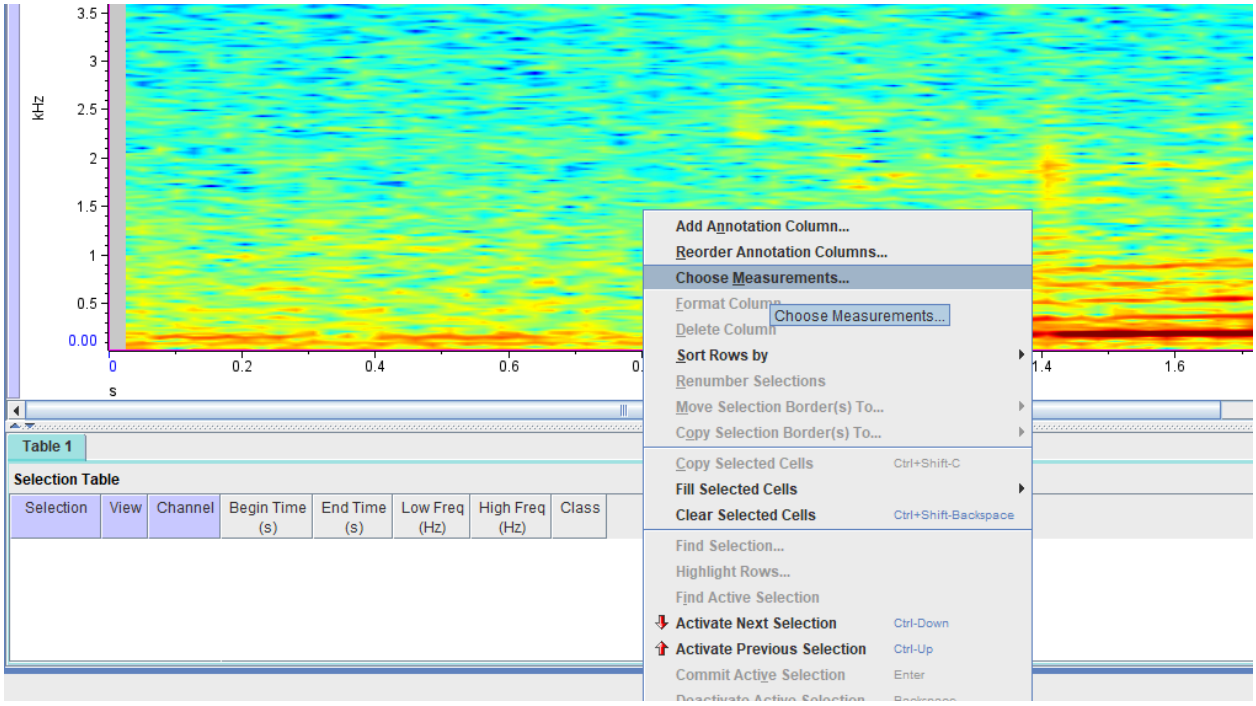
5. To start a selection, we have to ensure that the selection table has all the things we want it to record. First let's start with the annotation column.



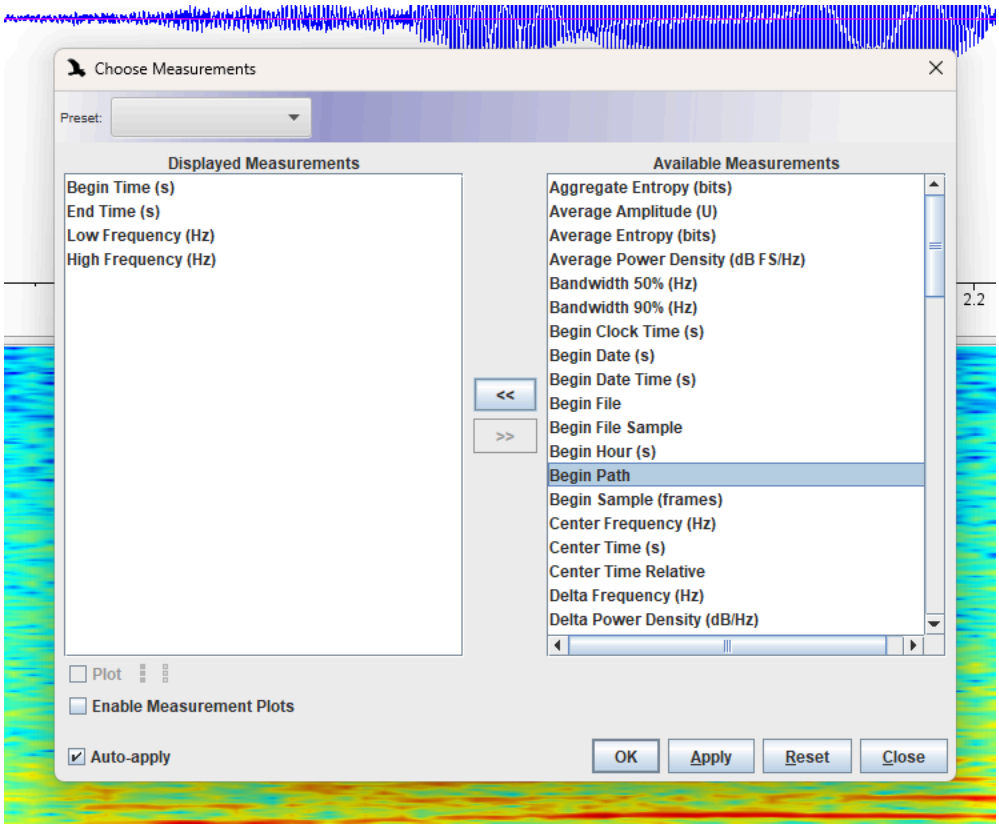
6. Create a name for the annotation column, for our model we used the word “Class”



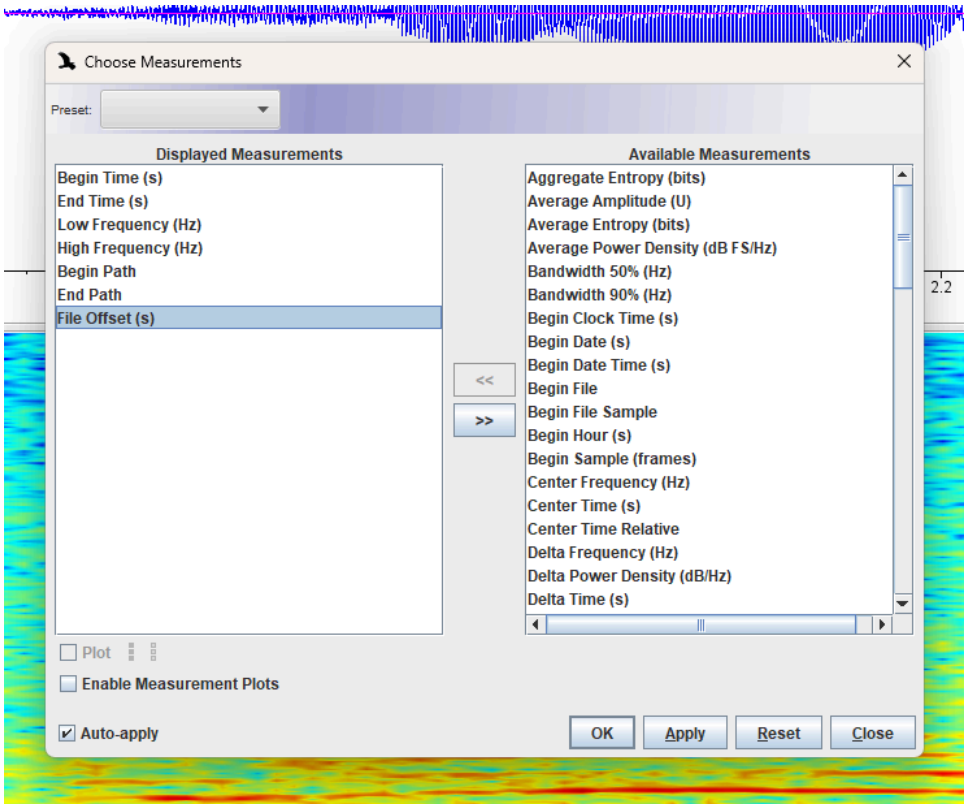
7. Then we want to select the appropriate measurements.



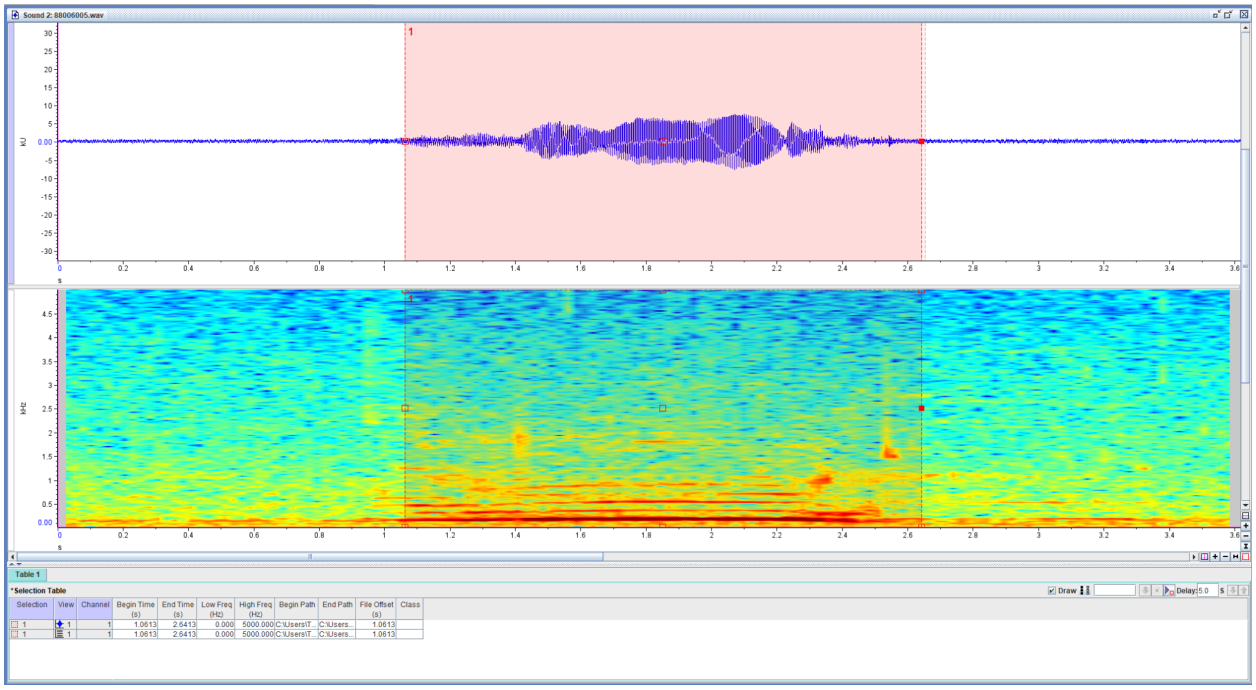
8. To select the measurements select the available measurement and click the << button.



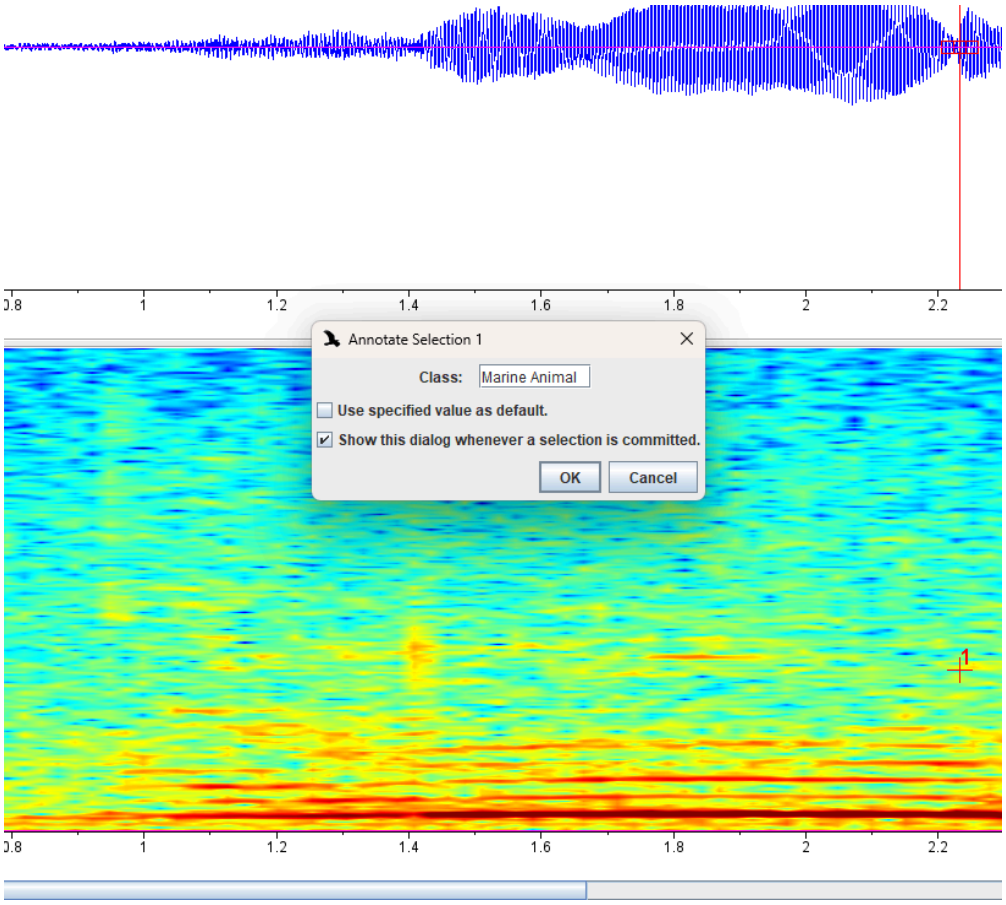
9. Make sure you have the selections below to use our model accurately.



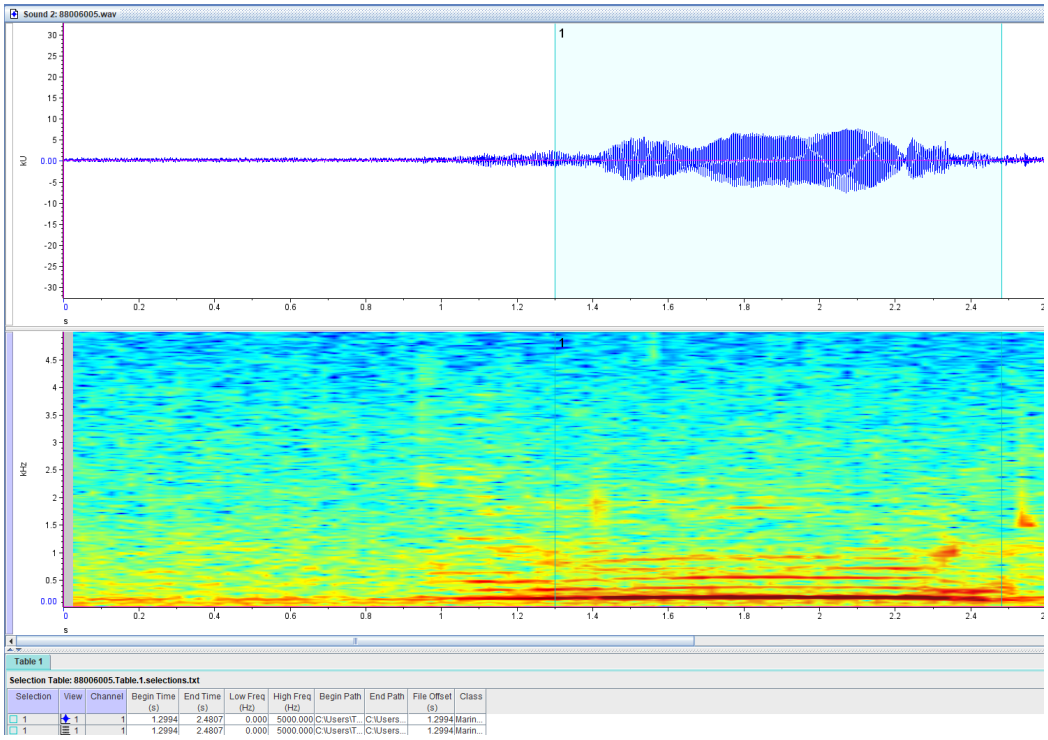
10. To select the audio segment, drag a box across the waveform of the call and press enter.



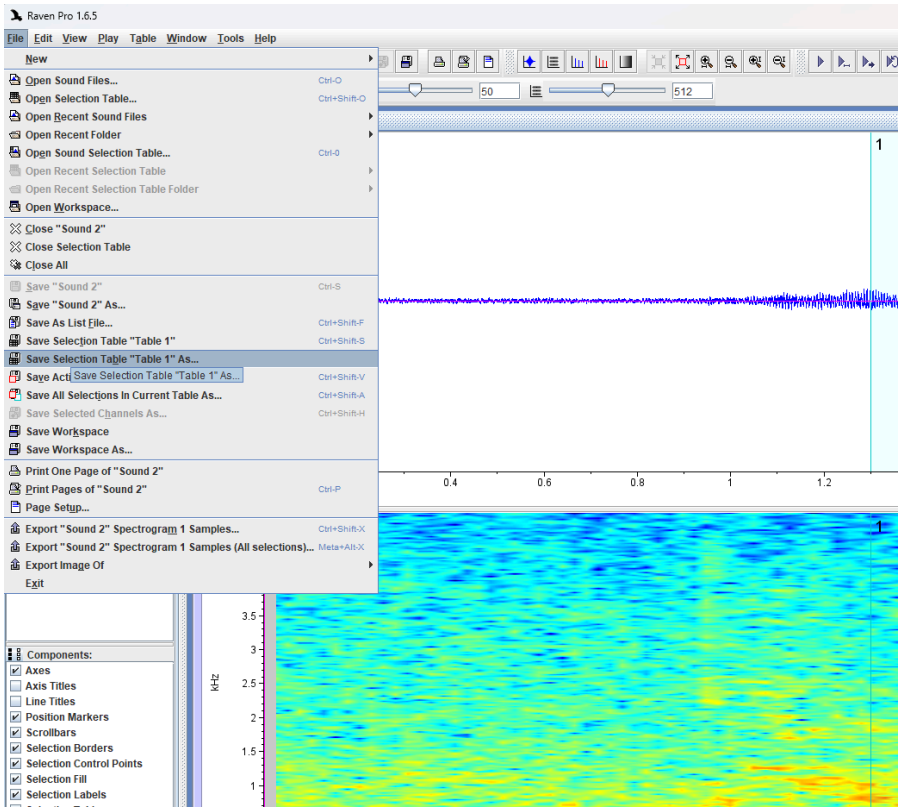
11. When you press enter you will be prompted to enter the annotation, classify your data accordingly.



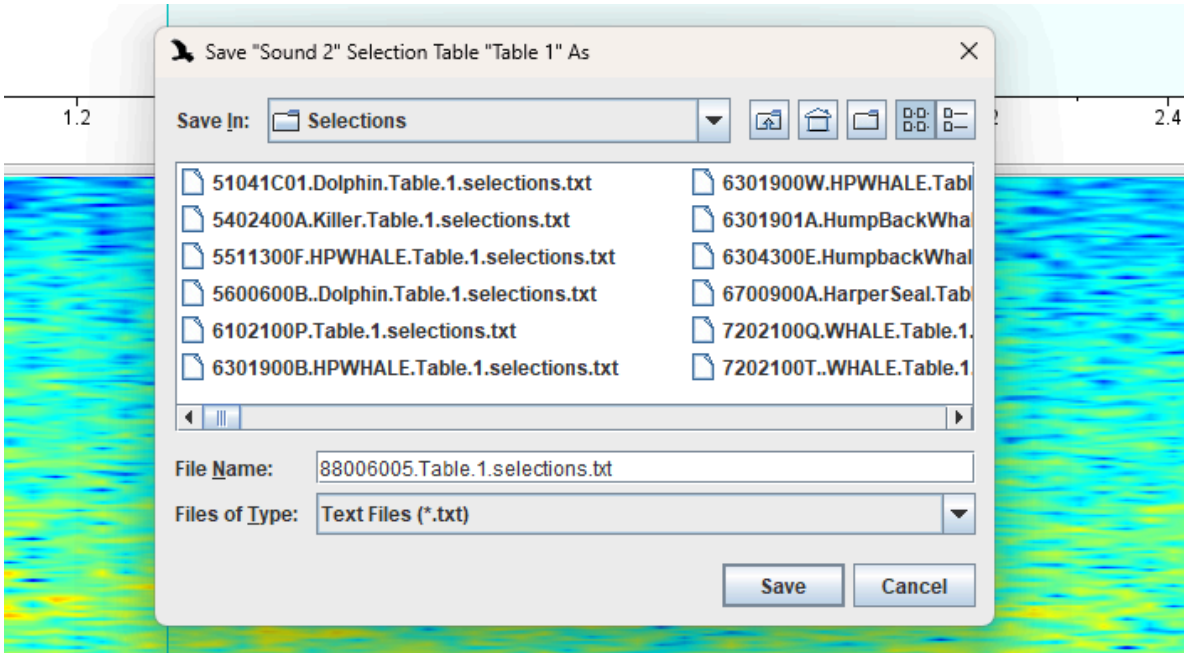
12. When you press OK, your selection should turn blue, this means your audio was selected.



13. To save the selection table, go to Files>Save Selection Table “Table 1” As



14. Name your selection table and save it in the appropriate folder. Make sure you know what audio sound that selection table corresponds to, we recommend keeping the audio file name in the selection table file name.



15. You will then get a txt file detailing the Selection, View, Channel, Low Freq, High Freq, Begin Path, End Path, and File offset of your audio selections.
    a. They are usually saved in C:\Users\<Username>\Raven Pro 1.6\Selections
    b. For our model, we need the selection tables to be combined and the Waveform view entries to be deleted. Make sure the paths to your wav files are accurate and then you're good to go!

Selection	View	Channel	Begin Time (s)	End Time (s)	Low Freq (Hz)	High Freq (Hz)	Begin Path	End Path	File Offset (s)	Type
1	Spectrogram 1	1	0.353932062	1.807923236	0	40000	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7500502J.wav	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7500502J.wav	0.3539	Marine Animal
2	Spectrogram 1	1	2.410564315	3.19495429	0	40000	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7500502Q.wav	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7500502Q.wav	0.1314	Marine Animal
3	Spectrogram 1	1	3.979344265	4.840260092	0	40000	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7500502R.wav	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7500502R.wav	0.2202	Marine Animal
4	Spectrogram 1	1	5.433335439	6.4568687	0	40000	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7500502S.wav	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7500502S.wav	0.2903	Marine Animal
5	Spectrogram 1	1	6.973418196	7.872596948	0	40000	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7500502T.wav	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7500502T.wav	0.121	Marine Animal
6	Spectrogram 1	1	8.178700353	9.594428601	0	40000	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7500502U.wav	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7500502U.wav	0.2798	Marine Animal
7	Spectrogram 1	1	10.4170815	11.54583781	0	40000	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7500502V.wav	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7500502V.wav	0.4088	Marine Animal
8	Spectrogram 1	1	12.31109632	13.84161335	0	40000	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7500502W.wav	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7500502W.wav	0.2678	Marine Animal
9	Spectrogram 1	1	14.38686004	17.7253003	0	40000	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7500502X.wav	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7500502X.wav	0.2937	Marine Animal
10	Spectrogram 1	1	17.88791773	20.92025459	0	40000	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7500502Z.wav	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7500502Z.wav	0.0284	Marine Animal
1	Spectrogram 1	1	1.351690496	2.751464844	0	5120	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7801800B.wav	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7801800B.wav	1.3517	Marine Animal
1	Spectrogram 1	1	0.674927064	2.023676565	0	5120	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7202100Z.wav	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7202100Z.wav	0.6749	Marine Animal
1	Spectrogram 1	1	1.024053277	2.35811772	0	5120	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7202100T.wav	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7202100T.wav	1.0241	Marine Animal
1	Spectrogram 1	1	0.301117403	2.219629125	0	5120	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7202100Q.wav	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\7202100Q.wav	0.3011	Marine Animal
1	Spectrogram 1	1	1.310323779	1.660113602	0	5120	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\6700900A.wav	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\6700900A.wav	1.3104	Marine Animal
2	Spectrogram 1	1	1.755889387	2.114007538	0	5120	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\6700900A.wav	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\6700900A.wav	1.7559	Marine Animal
3	Spectrogram 1	1	2.301394943	2.881601871	0	5120	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\6700900A.wav	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\6700900B.wav	2.3014	Marine Animal
4	Spectrogram 1	1	3.164910231	3.86587793	0	5120	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\6700900B.wav	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\6700900B.wav	0.6665	Marine Animal
5	Spectrogram 1	1	4.437756529	5.163709216	0	5120	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\6700900B.wav	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\6700900B.wav	1.9394	Marine Animal
6	Spectrogram 1	1	5.406706543	5.820346888	0	5120	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\6700900D.wav	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\6700900D.wav	0.1286	Marine Animal
7	Spectrogram 1	1	5.973032922	6.496329601	0	5120	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\6700900D.wav	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\6700900D.wav	0.6949	Marine Animal
8	Spectrogram 1	1	6.592105386	7.1112379	0	5120	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\6700900D.wav	C:\Users\Tiffany\Desktop\cv-final\original_wav_files\6700900E.wav	1.314	Marine Animal

    c. Note that the data only shows Marine Animal sound classification but we want all selections to be in one .txt file, both marine and non marine animal sounds.
    d. Please also change the Classes name to Type and make sure the file is formatted as .txt (tab delimited).