



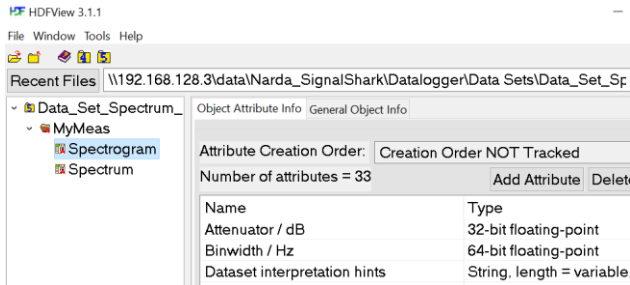
Script “nslconvertsgram”

The script “nslconvertsgram” allows to convert SignalShark spectrogram data from HDF5 (.h5) file format to .csv file format.

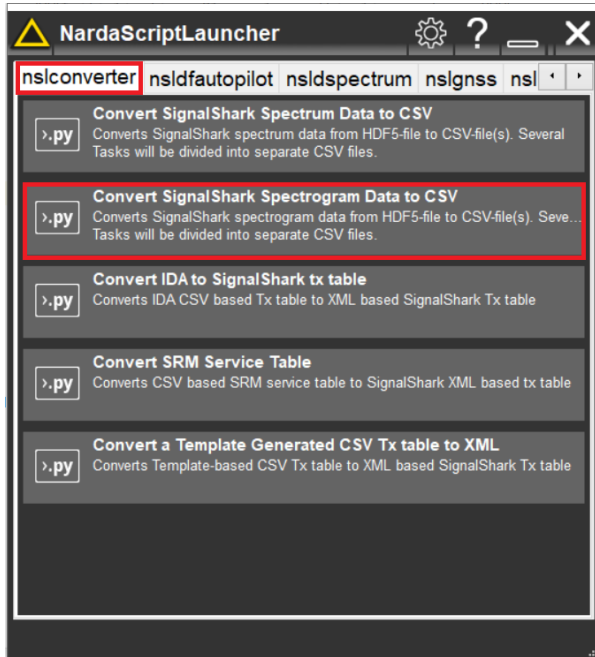
The script is executed through the Narda Script Launcher application and it prompts the user to select an HDF5 file containing the spectrogram data that needs to be converted into the CSV file format. Once the file is selected by the user, its contents are verified to check the presence of spectrogram data. The file is then converted to CSV format, and saved in the parent directory with a new name.

Procedure

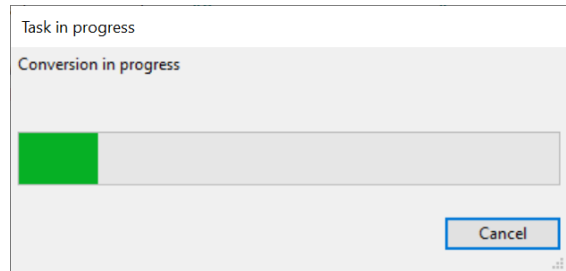
The (.h5) files logged by SignalShark in the Datalogger folders have the spectrogram data present in them. These files can be viewed in HDFView Application:



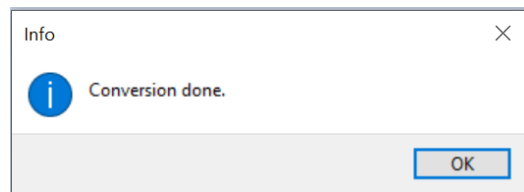
1. To convert the spectrogram data of these SignalShark HDF5 files into CSV file format, open the Narda Script Launcher application and select the "nslconvert" tab:



2. Select the script "Convert SignalShark Spectrogram Data to CSV".
3. When the script is executed, the user is asked to select the (.h5) file from the file picker.
4. Upon file selection, the script validates the presence of spectrogram data in the (.h5) file. If the validation succeeds, a progress bar appears on the screen showing the status of file conversion:



5. Once the conversion is done, a pop-up dialog provides the confirmation to the user.



6. The converted (.csv) file is saved in the same directory as that of the (.h5) file and it derives its name from the parent file with "- Spectrogram" and the corresponding task id appended to its name.
7. Press "Ok" to terminate script.
8. The resulting .csv file shows the measurement specifications and also provides the array of pPk level values against the timestamps:

	A	B	C	D	E
1	Description	Value			
2	Binwidth / Hz	31250			
3	Frequency of	85000000			
4	Number of bir	801			
5	Number of fra	570			
6	Level unit	b'dBm'			
7	Measurement	0.01			
8	RBW / Hz	62500			
9	Reference lev	-14.5			
10	Attenuator / c	0			
11	Geolocation l	48.458394			
12	Geolocation l	9.230114167			
13					
14					
15	Timestamp_s	Timestamp_ns	Level_pPk	Overdriven_Flag	Invalid_Flag
16	1596198992	194655439	[-89.82688,-89.30	0	0
17	1596198992	184655439	[-87.36926,-88.38	0	0
18	1596198992	174655439	[-88.892044,-89.9	0	0
19	1596198992	164655439	[-88.88028,-88.51	0	0
20	1596198992	154655439	[-89.979744,-89.7	0	0
21	1596198992	144655439	[-89.397675,-88.4	0	0
22	1596198992	134655439	[-88.239426,-88.4	0	0

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