



## NorReview Version 6

Advance Assessment  
Features

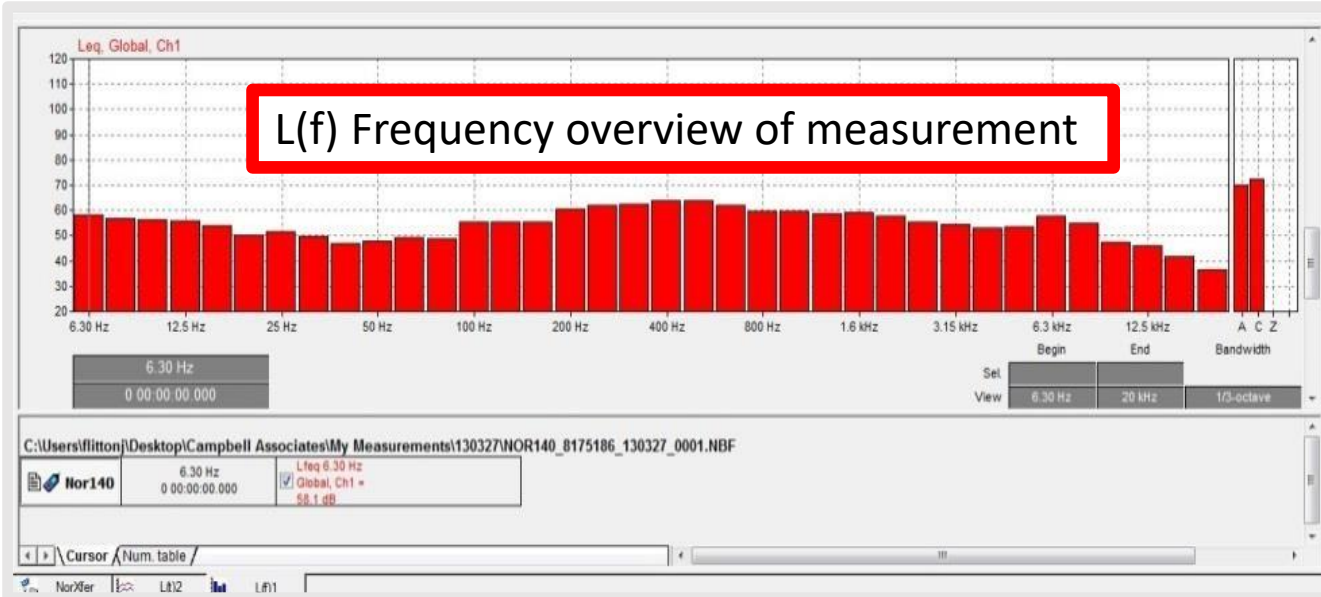
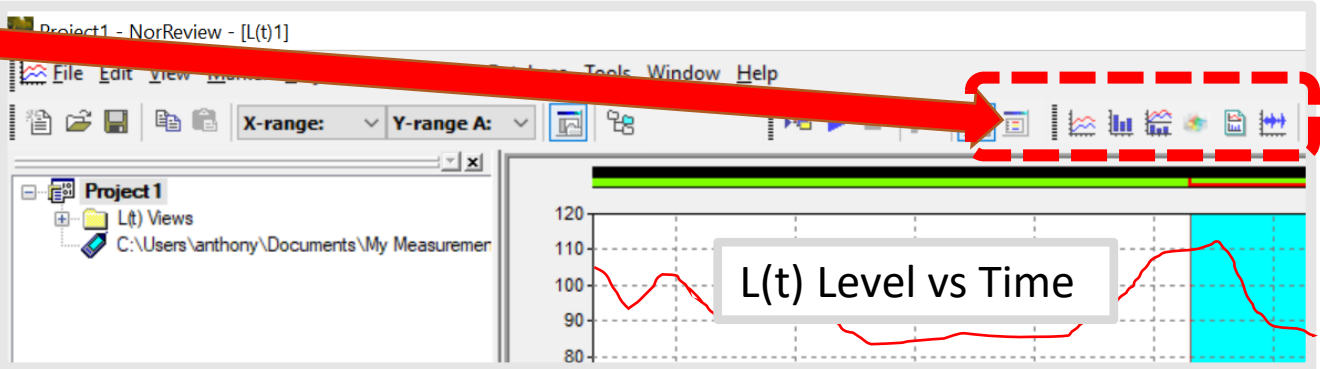
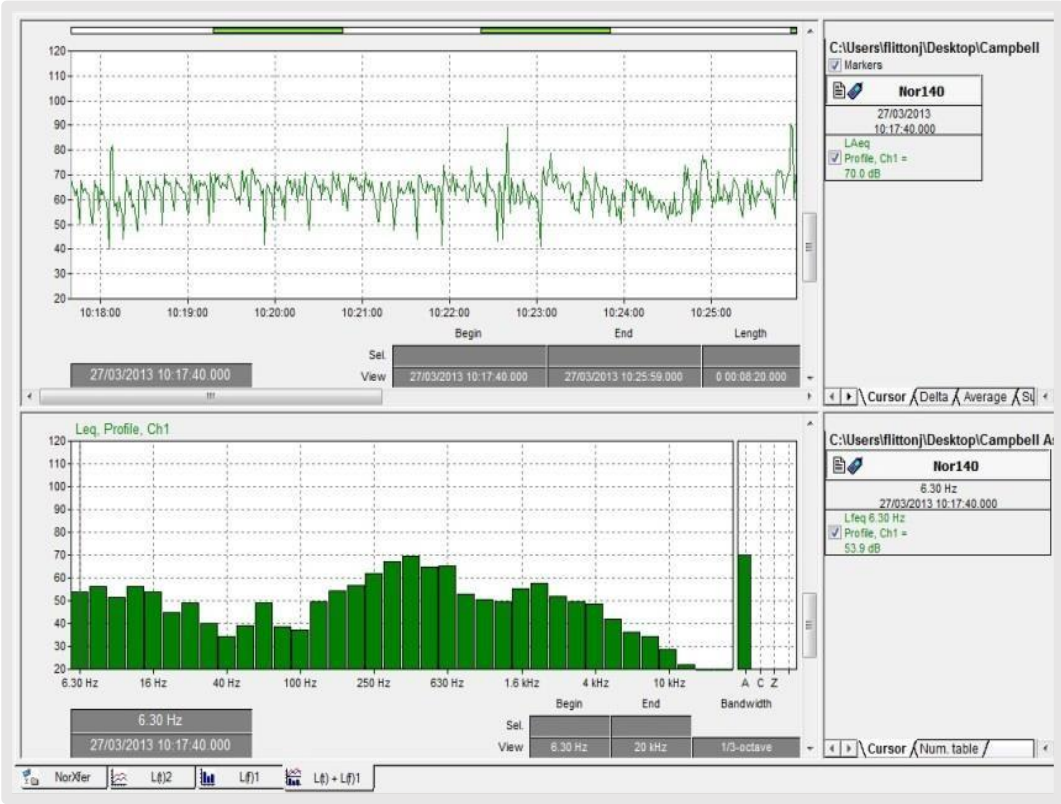


Environmental User Guide

# Frequency and Time Views

Views Selected Here

L(t) + L(f) Level vs Time vs Frequency



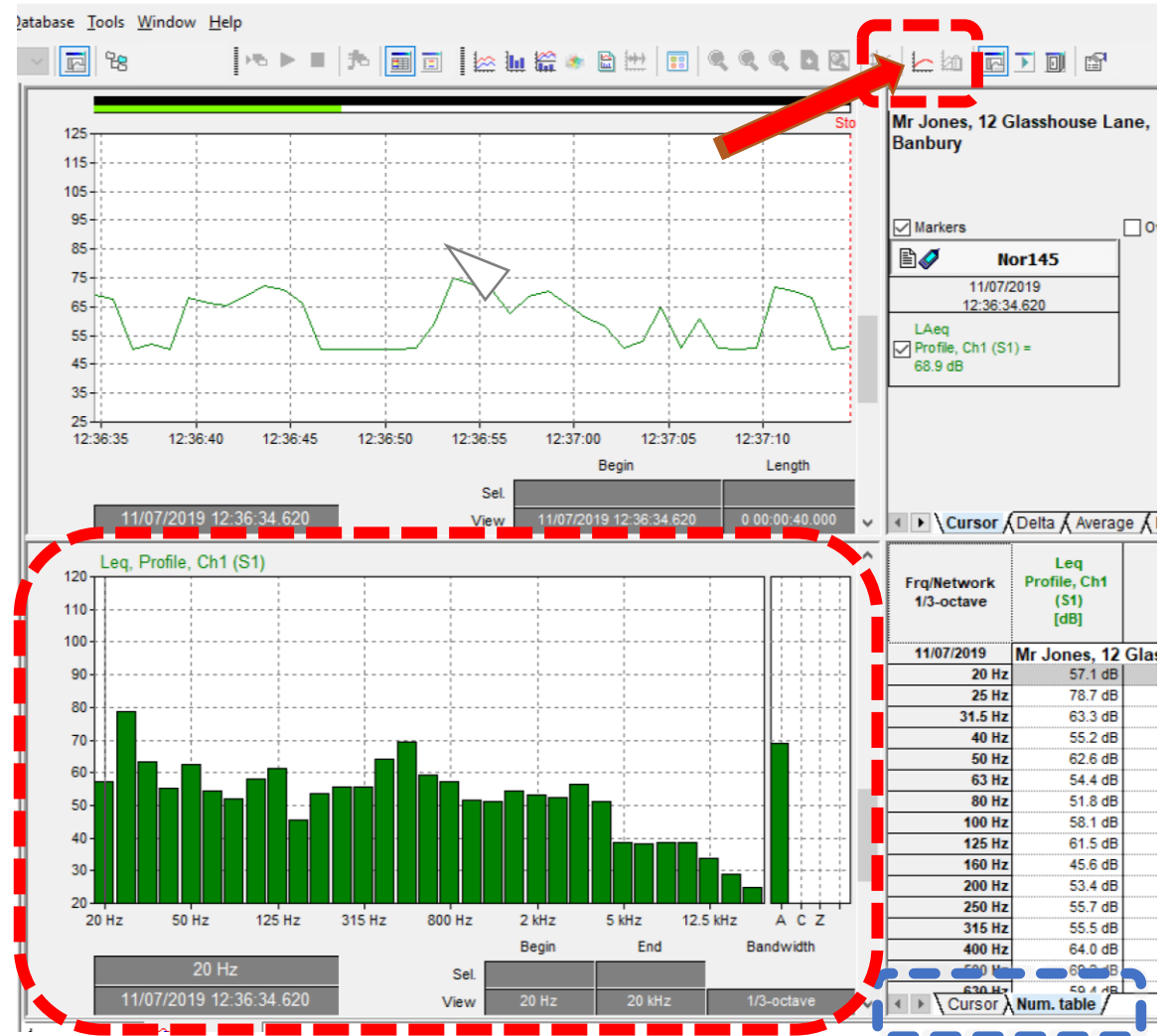
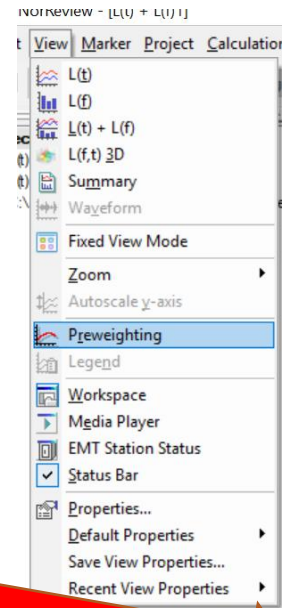
# Frequency Pre-weighting and Table

To see a frequency overview select one of the following:

1. Marker
2. Highlight an area
3. Drop the cursor

**For A-pre-weighting**  
Use the pre-weighting button  
Or  
View > Preweighting

For a Number Table use the  
**Num. Table** tab in right window.  
*This sheet can be copied to excel.*



# Plotting Frequencies in the Graph

To plot logged parameters from the SLM.  
Right-click in the Lt window and select **Properties...**

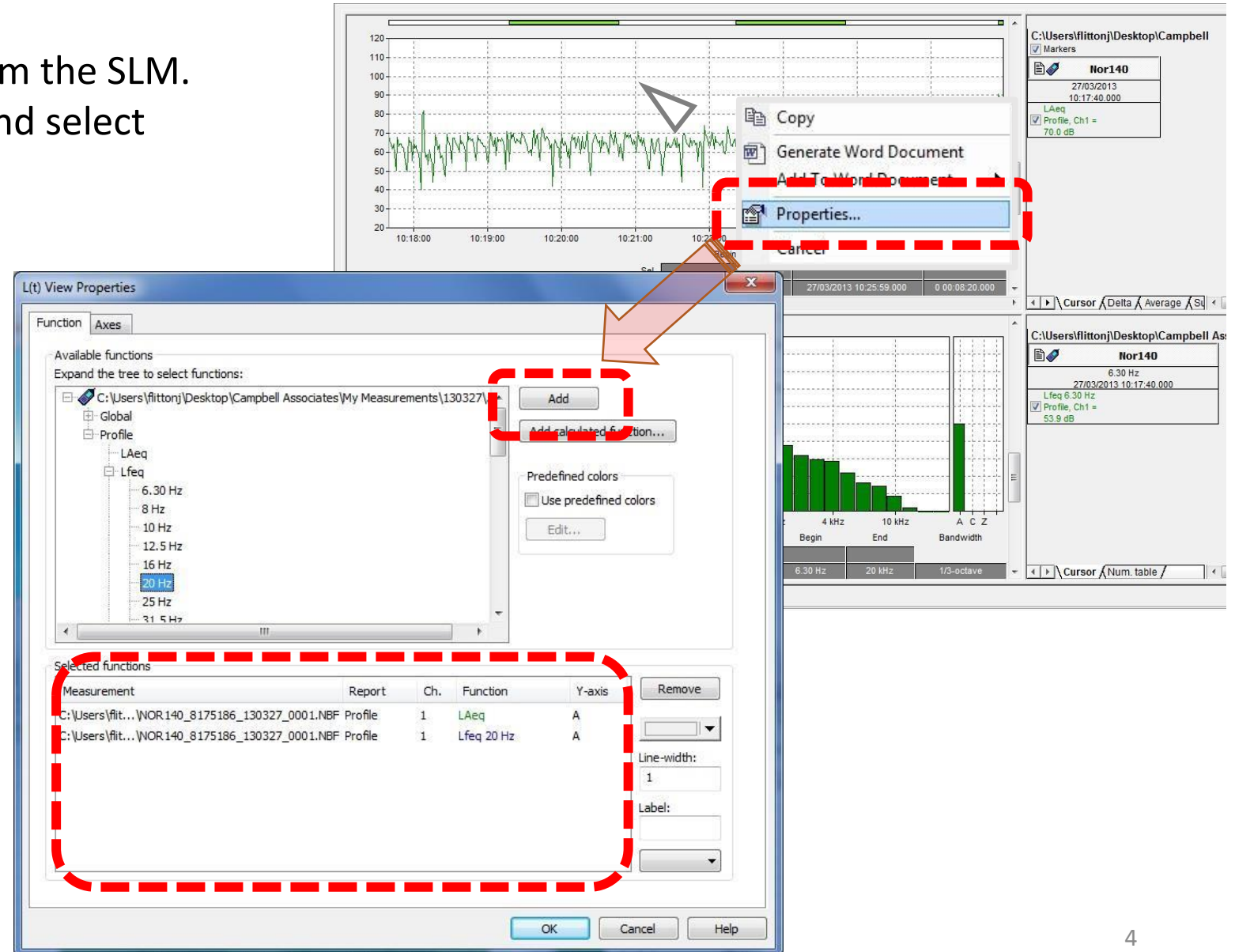
In the View Properties

Select

- + Profile
- + Lfeq
- + 20Hz

Press the **Add** button

Hit **OK** and the level will  
Be displayed.



The screenshot illustrates the software interface for plotting frequencies. The top window shows a time-series graph with a context menu open, highlighting the 'Properties...' option. The bottom window shows the 'View Properties' dialog with a tree view of functions, the 'Add' button highlighted, and a table of selected functions.

**Available functions tree:**

- Global
- Profile
  - L Aeq
  - L feq
    - 6.30 Hz
    - 8 Hz
    - 10 Hz
    - 12.5 Hz
    - 16 Hz
    - 20 Hz
    - 25 Hz
    - 31.5 Hz

**Selected functions table:**

Measurement	Report	Ch.	Function	Y-axis	Remove
C:\Users\flit... \NOR140_8175186_130327_0001.NBF Profile		1	L Aeq	A	
C:\Users\flit... \NOR140_8175186_130327_0001.NBF Profile		1	L feq 20 Hz	A	



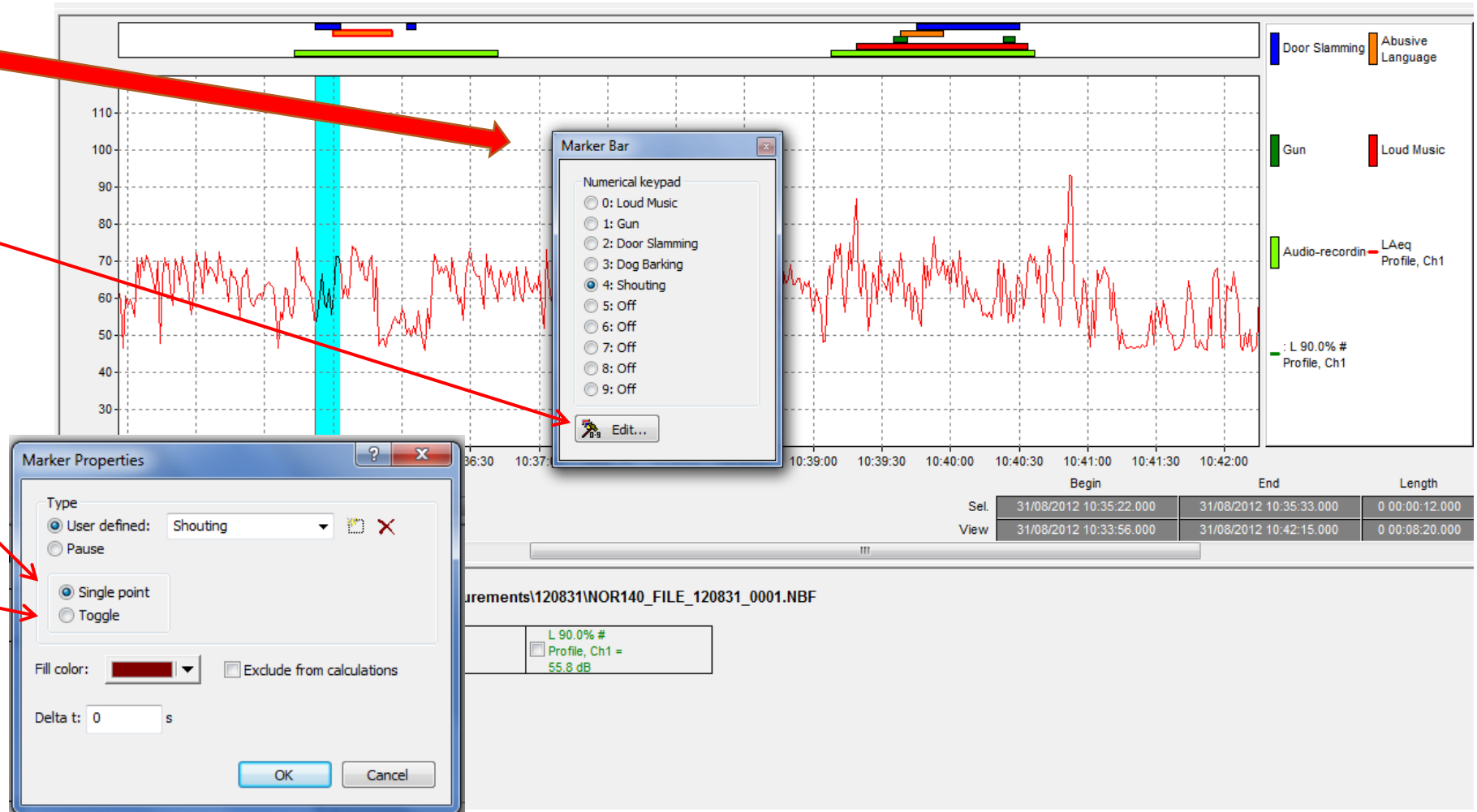
Marker Bar allows you to use the keyboard numbers 0-9 to assign the markers as you listen back to the recordings. This is found in the Marker Menu under Marker Bar.

**Marker Bar Panel**

- Select the marker to edit
- Click on the edit Button

Select 'single point' marker and pressing the number on the keyboard will put a one-off marker on the graph.

The toggle marker is used to press once to start the marker and press again to finish it.



The screenshot shows an audio waveform with a marker bar at the top. A red arrow points from the 'Marker Bar Panel' label to the 'Marker Bar' dialog box. Another red arrow points from the 'Click on the edit Button' instruction to the 'Edit...' button in the 'Marker Bar' dialog. A third red arrow points from the 'Select 'single point' marker' instruction to the 'Single point' radio button in the 'Marker Properties' dialog. A fourth red arrow points from the 'The toggle marker is used...' instruction to the 'Toggle' radio button in the 'Marker Properties' dialog.

**Marker Bar** dialog box content:

```

Numerical keypad
 0: Loud Music
 1: Gun
 2: Door Slamming
 3: Dog Barking
 4: Shouting
 5: Off
 6: Off
 7: Off
 8: Off
 9: Off
Edit...
    
```

**Marker Properties** dialog box content:

```

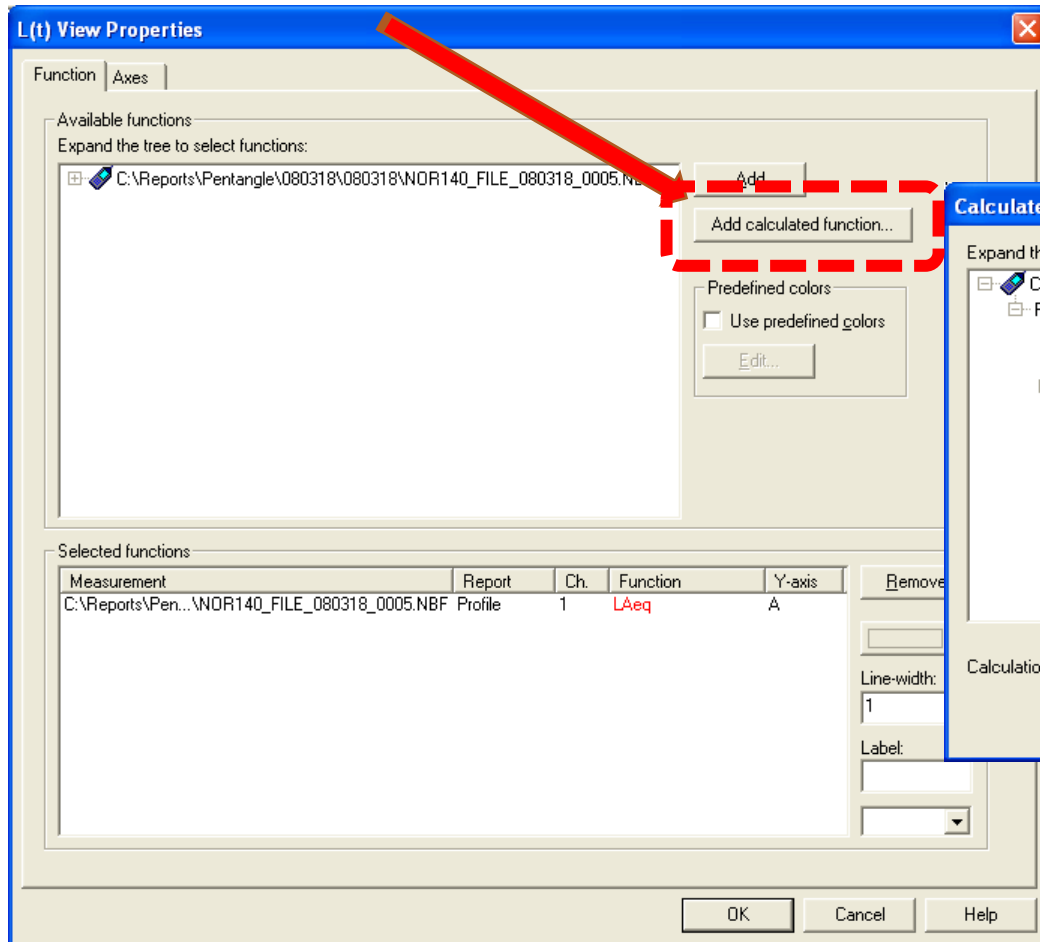
Type
 User defined: Shouting
 Pause
 Single point
 Toggle
Fill color: [Red] Exclude from calculations
Delta t: 0 s
    
```

Legend on the right side of the interface:

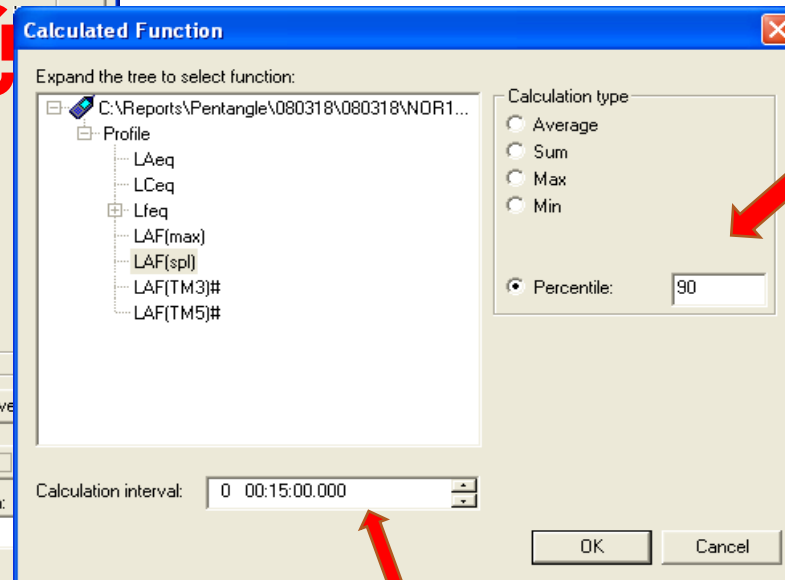
- Door Slamming
- Abusive Language
- Gun
- Loud Music
- Audio-recordin
- L Aeq Profile, Ch1
- L 90.0% # Profile, Ch1

	Begin	End	Length
Sel.	31/08/2012 10:35:22.000	31/08/2012 10:35:33.000	0 00:00:12.000
View	31/08/2012 10:33:56.000	31/08/2012 10:42:15.000	0 00:08:20.000

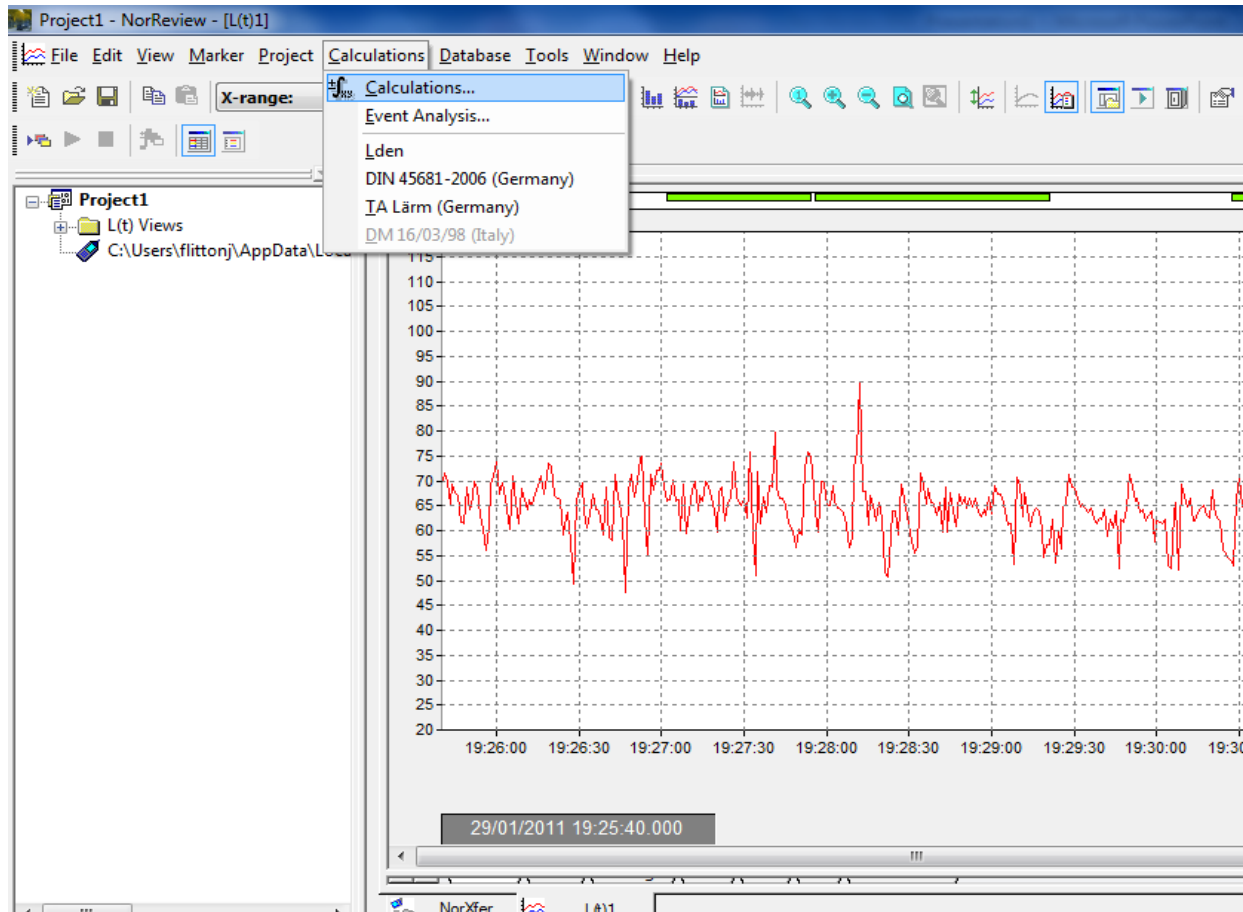
Right-click in the Lt menu and select 'Properties'. Then click on 'Add Calculated Function'.



Select Percentile and type in the percentile that you want displayed (i.e 90, 10 etc)



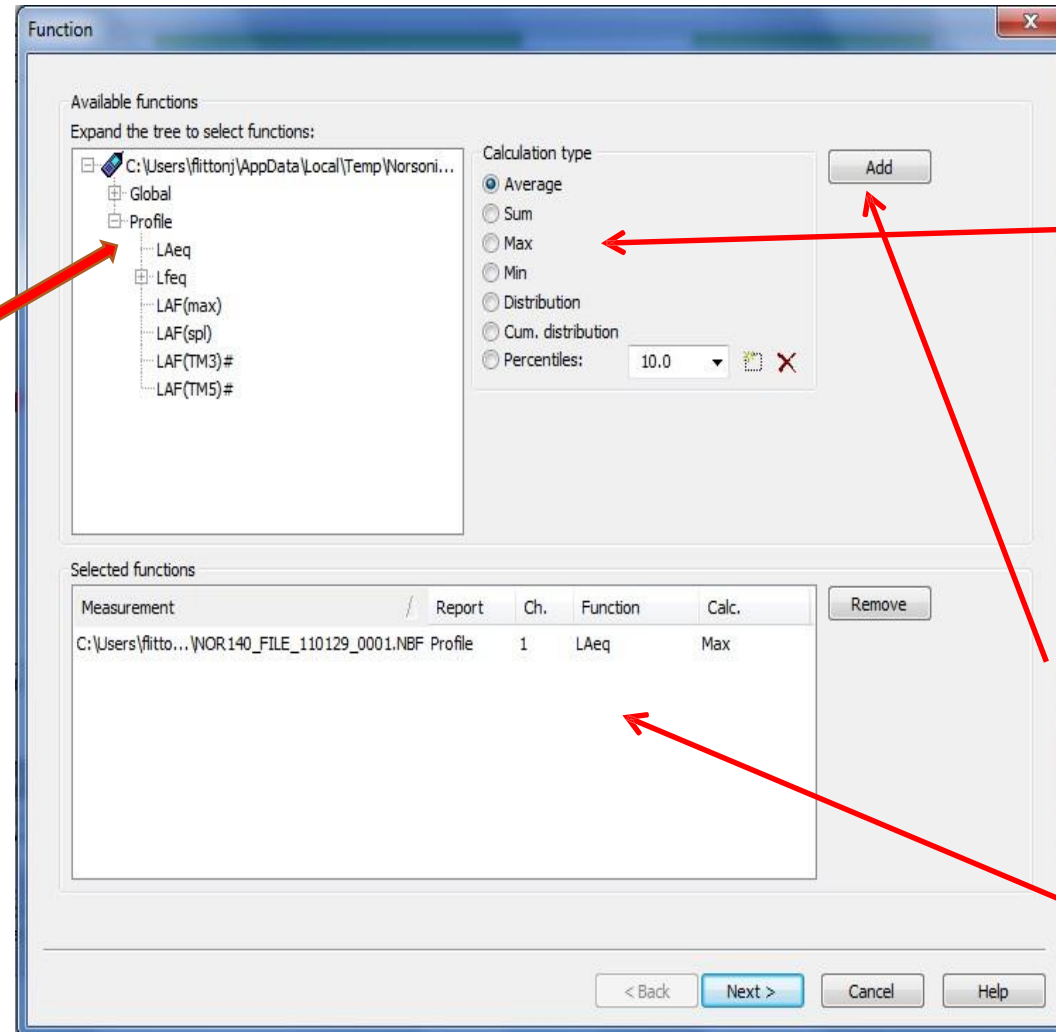
Select the time period for the plot. This should really be no smaller than 30s to get an accurate plot of the L90



Select Calculations from top menu and click Calculations again.

# Calculations - Functions Window

This window allows you to select from what the meter has measured. The profile data is the information measured according to the resolution of the meter (usually 1 second). This should be used for most calculations. The Global data is the overall figures for the entire measurement and will be a single figure.

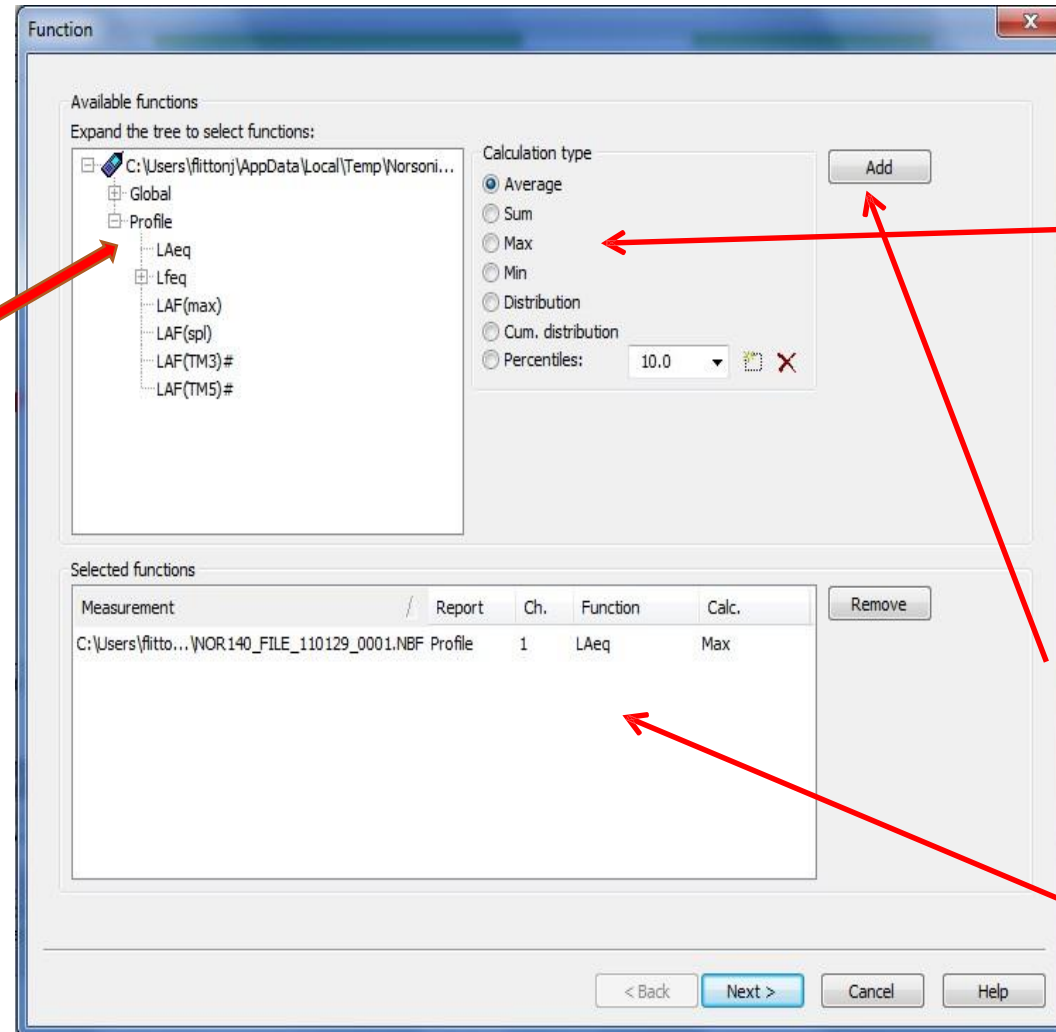


The calculation type allows you to select the type of calculation that you want to perform on the data selected in the left window. For example select  $LA_{eq}$  in the profile section on the left and then click percentiles as the calculation type to get a  $LA_{90}$  (make sure you have added the percentiles you want in the Tool – Options – Percentiles menu).

Once you have decided on your calculation click the 'Add' button and it will appear in the bottom window.

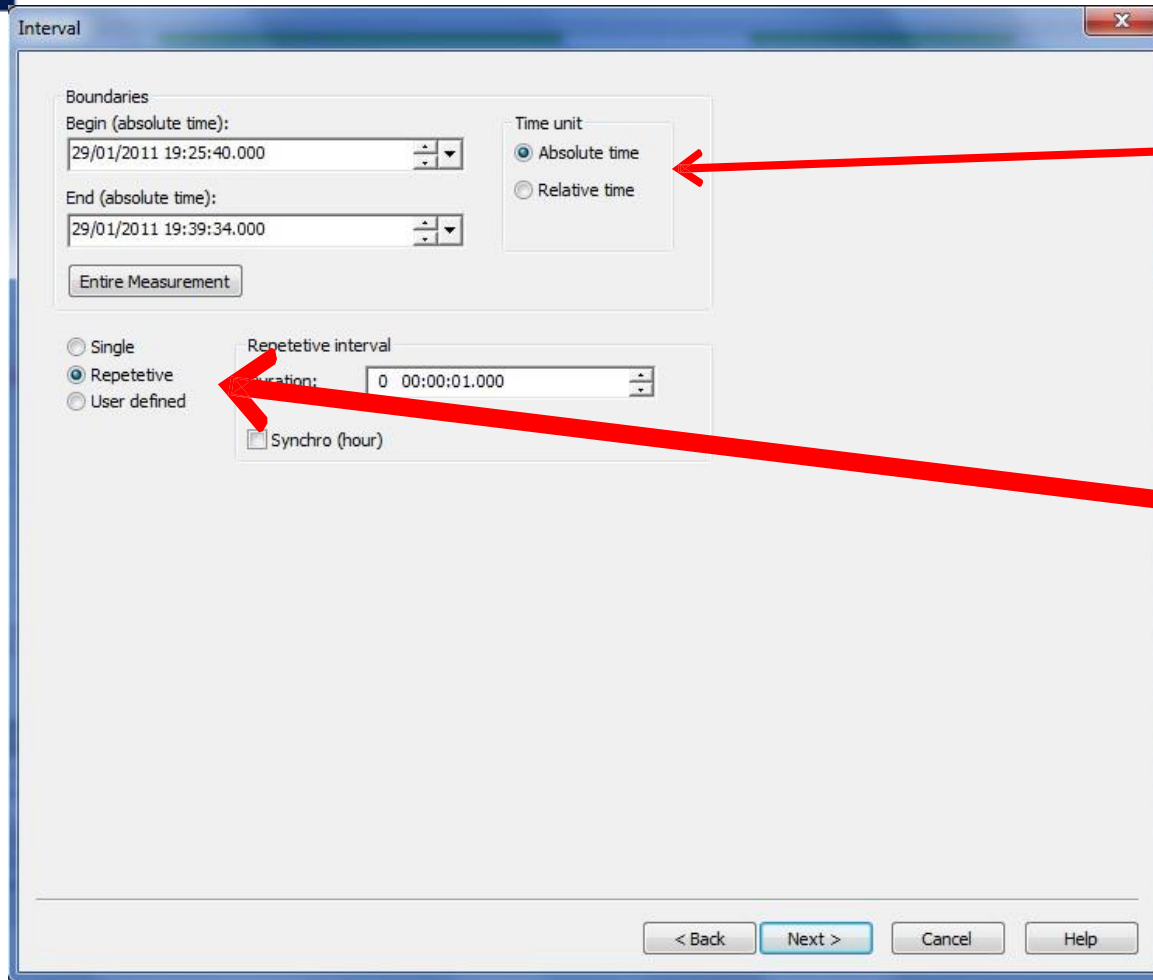


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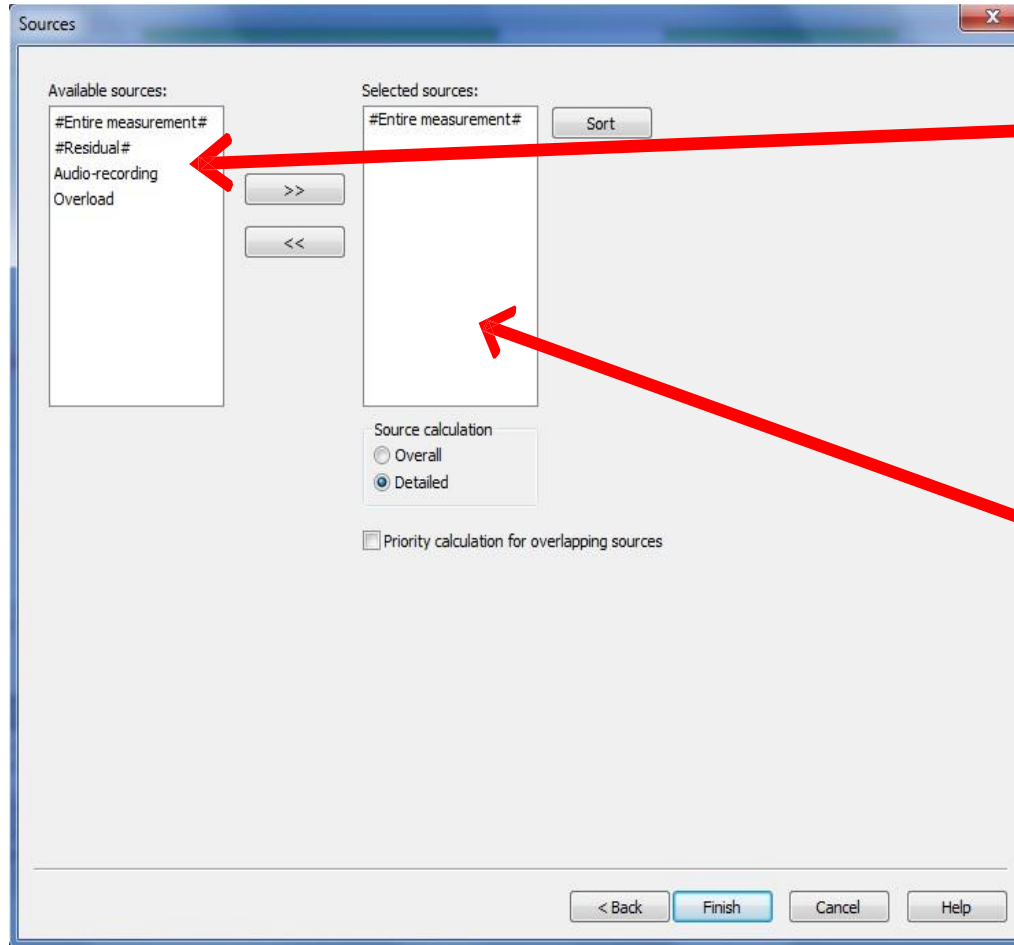
Once you have decided on your calculation click the 'Add' button and it will appear in the bottom window.



Absolute time shows the clock time.  
Relative time shows the measurement elapsed time.

Use 'Single' for a single, overall calculation value. If you want to set your own periods (such as for a  $LA_{eq15mins}$  then use 'Repetitive' and set the time duration. This is in Days, Hours, Minutes, Seconds. The 'User Defined' options allows you to specify a particular period. This can be used if you want the values for just one of the days etc.

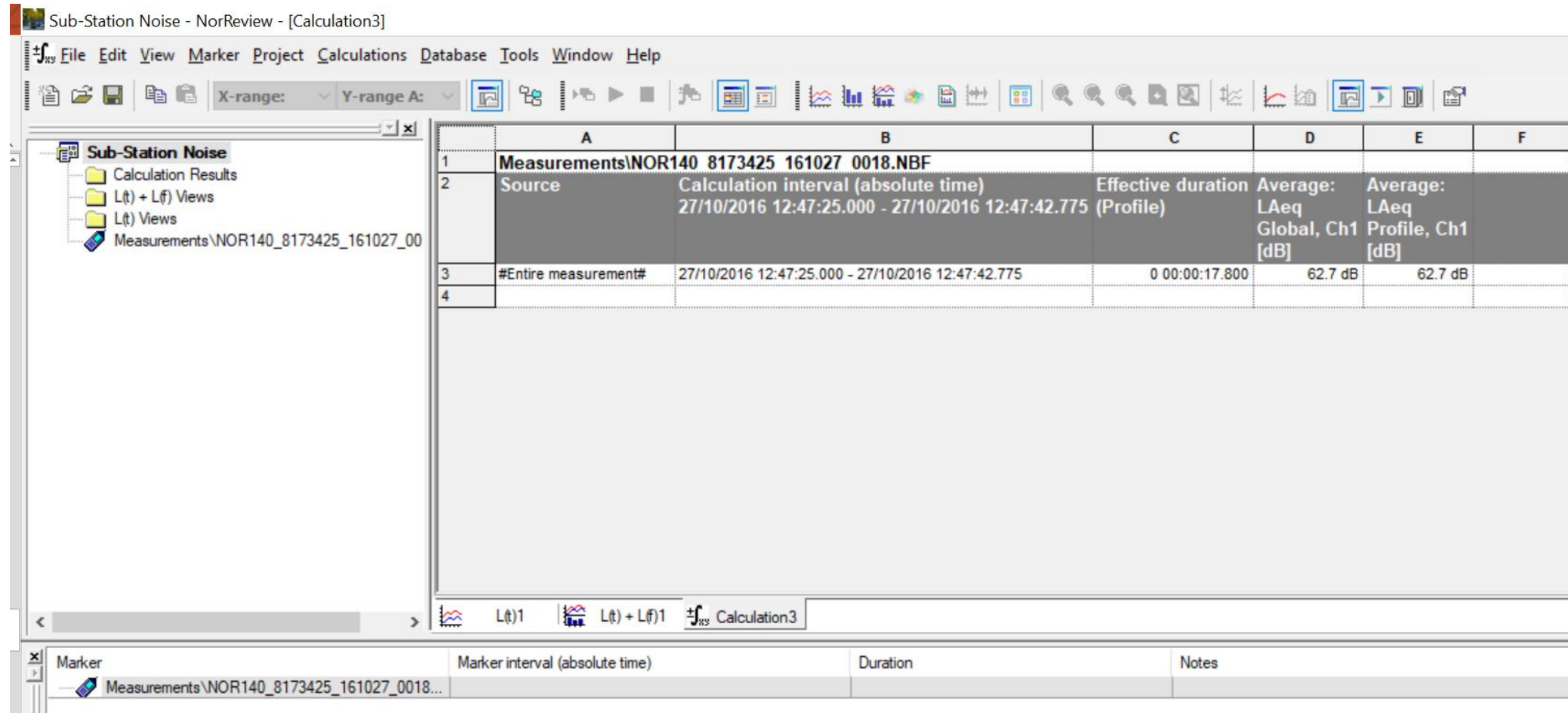
Use the left and right arrows to add or remove from selected sources box.



The left box shows what is available in the project to use for calculations. This will include any markers you have added. The residual function is used if you want to calculate what the noise levels would be if you removed the markers you have selected.

The right-hand column is the 'selected sources'. This will be what is used to produce the calculation values.

The table shows the final calculated results



Sub-Station Noise - NorReview - [Calculation3]

	A	B	C	D	E	F
1	Measurements\NOR140 8173425 161027 0018.NBF					
2	Source	Calculation interval (absolute time) 27/10/2016 12:47:25.000 - 27/10/2016 12:47:42.775	Effective duration (Profile)	Average: LAeq Global, Ch1 [dB]	Average: LAeq Profile, Ch1 [dB]	
3	#Entire measurement#	27/10/2016 12:47:25.000 - 27/10/2016 12:47:42.775	0 00:00:17.800	62.7 dB	62.7 dB	
4						

Marker

Marker	Marker interval (absolute time)	Duration	Notes
Measurements\NOR140_8173425_161027_0018...			