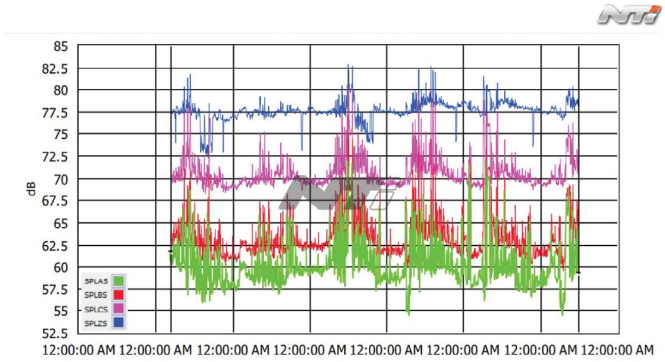
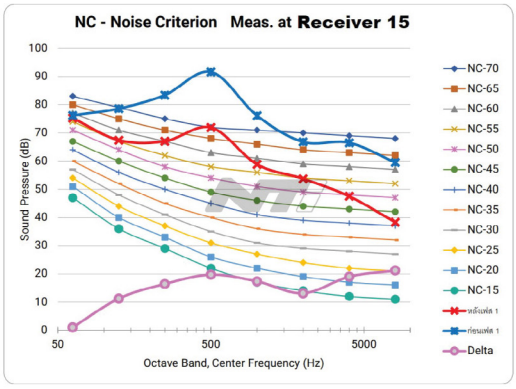
NEWTECH INSULATION

WAVEFORM ANALYSIS



Waveform analysis

Measuring sound frequencies can confirm the noise source, especially when using Octave Analysis and FFT (Fast Fourier Transform) analysis. Take the example of a dweller whose bedroom was affected by noise from the sewage system behind a nearby factory. When we measured the sound and separate sound frequency in the bedroom, it was found that a sound frequency of 500 Hz was from the main sound. Furthermore, when we separated the sound frequency at the sewagell system and found that a frequency of 500 Hz came only from the Vacuum air blowers. Additionally, in that area, no sound source generated a frequency of 500 Hz which meant that noise reduction could be done by finding a solution to reduce noise from the Vacuum air blowers.



Looking at the above example, "Waveform analysis" is a technique to verify a noise source (noise-source identification) and show noise-source characterization. By utilizing this technique, a sound reduction method and selection of material can be done with high precision.

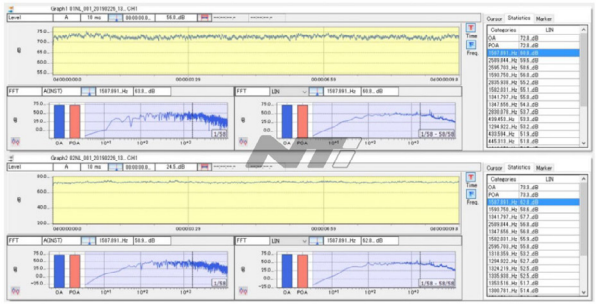
The obtained data can be used in octave contour to communicate with those involved in the noise reduction project. This service is suitable for those who need to resolve noise problems which exceed the legal standard, octave contour, noise reduction guidelines, and an overview of expenses in the form of an executive summary report.

Customers

- Proprietors who have noise sources
- People who suffer from noise annoyance
- Engineers or designers of machine's or plant's layout
- Person in charge of a factory's hearing conservation project

Working

- Noise measurement and data collection in noisy areas
- Provide both noise-contour maps and octave-con tour maps
- Conduct a correlation analysis of problematic fre quencies
- Offer materials and cost-effective solutions to noise control



Tools

- Integrated sound level meter class-1
- Thermal imaging camera
- Anemometer
- Waveform analysis software
- Noise level and frequencies map software
- Software for determining the SAC STC TL of materials

Output

- Noise annoyance level
- Sound pressure level
- Disturb frequencies
- Octave and noise contour
- Practical solutions and costs
- Executive summary report

