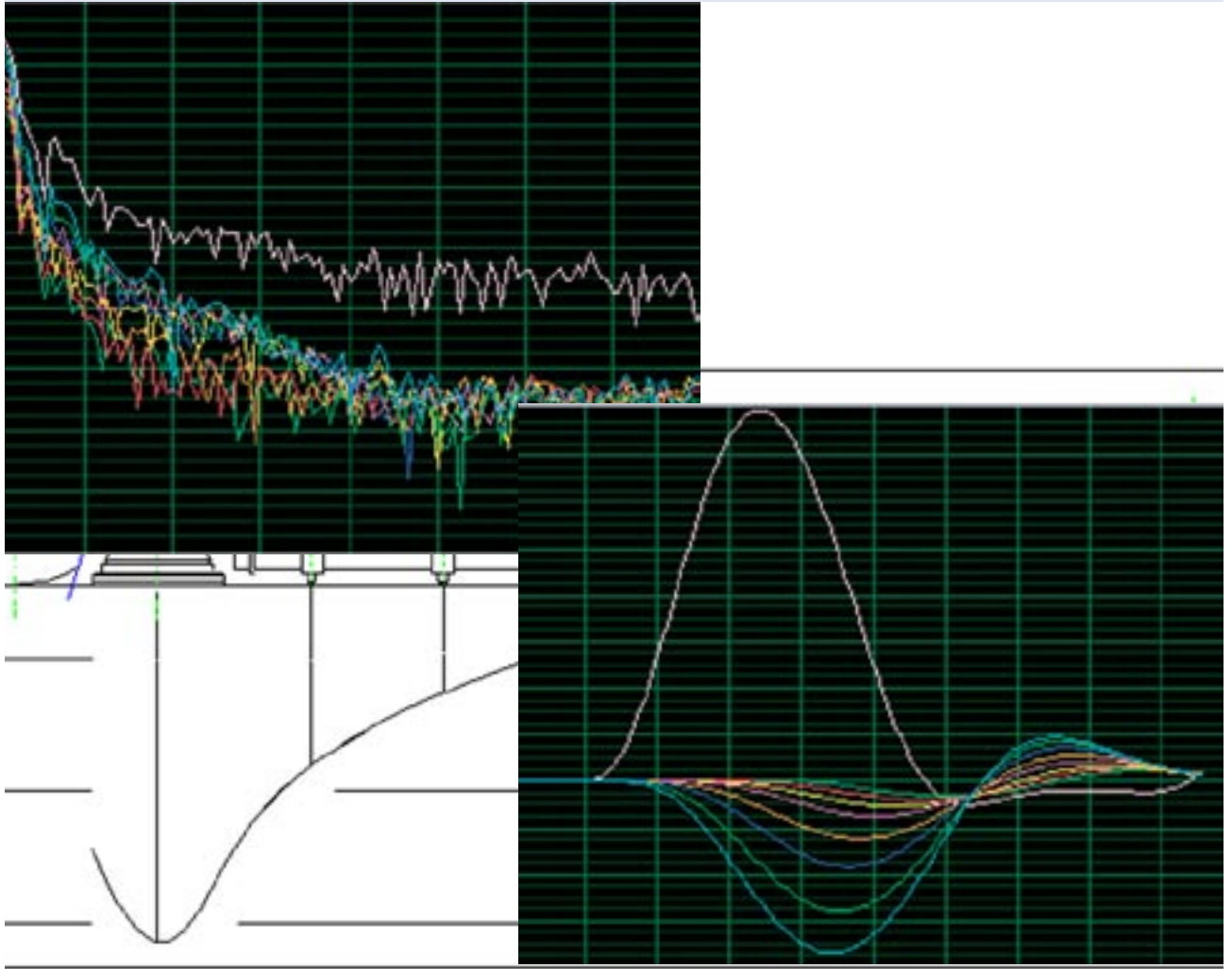


DESIGN - FFT - data analysis software



FFT analyses (Fast Fourier Transformation - frequency analyses).

FFT analysis (Fast Fourier Transformation - frequency analysis)

Grontmij | Carl Bro has developed an advanced user-friendly software for data analysis and correction. For many years it has not been quite clear what time history data could be used for. So far, only peak/max. values have been used for back-calculation.



Geophone in calibration equipment.

However, a tool is now available for easy and quick FFT analyses (Fast Fourier Transformation - frequency analyses). In this way the frequency content of a drop and a peak value may be found (see figure 1).

Another facility of the tool is low and high pass filters. These filters may among other things be used for noise filtering of time history signals or for comparison with data from other FWD manufacturers using filter correction in data collection software (see figure 2).

Grontmij | Carl Bro finds that original signals should not be filtered before they are presented. This is an option when analysing data. In this way, it is always possible to return to the "raw" original signals.

The analysis software is fully integrated with the data collection software and reads the Grontmij | Carl Bro file format directly including all the information available in the original time history file.

- File header for selected drop
- Chainage header for selected drop
- Sequence header for selected drop

The first presentation is a view of the time history data with a peak value for the geophones 1-9, and the load signal including all the information about the DROP being studied.

The software integrates automatically with Microsoft EXCEL spreadsheets, allowing the analysed/corrected data to be saved in either Grontmij | Carl Bro format or EXCEL format.

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