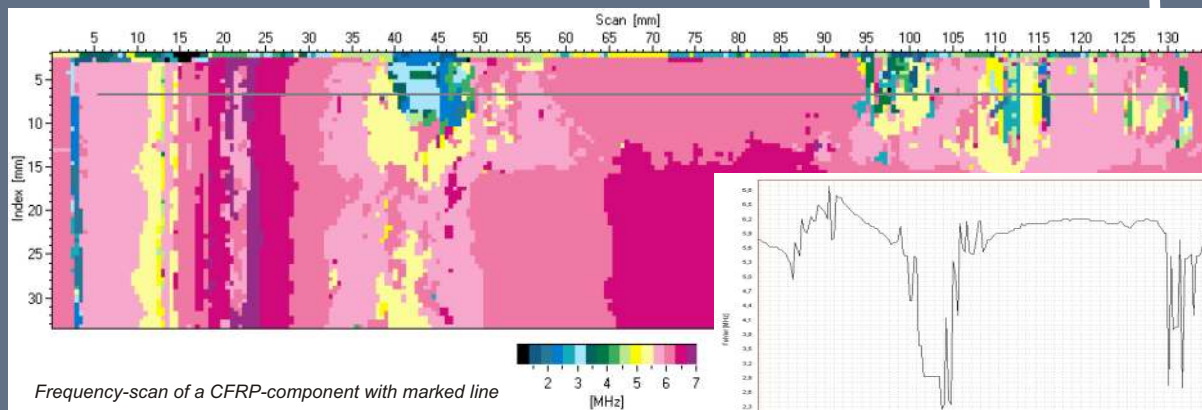
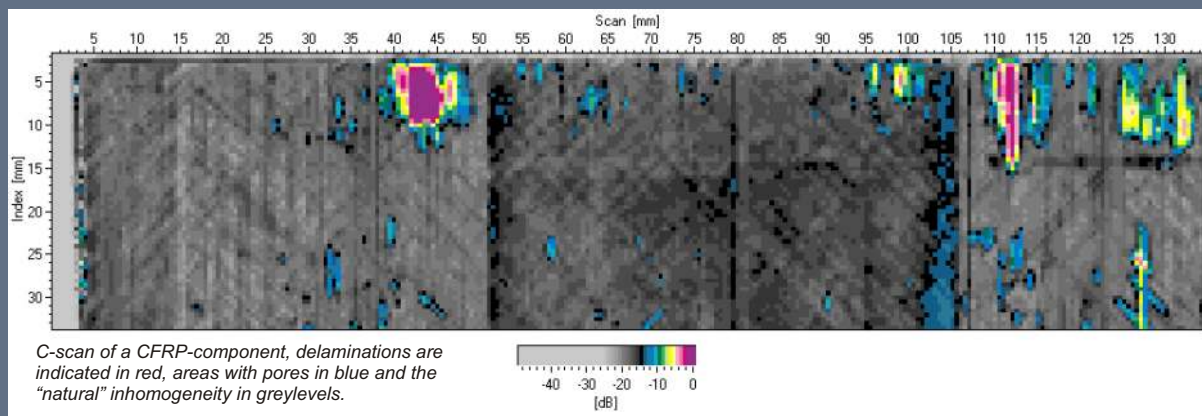


## Frequency- Scan for *Hillgus for Windows*

### Option Frequency-scan:

- Characterisation of materials and defects
- Two-dimensional diagram of the frequency with the largest spectral amplitude
- Optimisation of test parameters
- Control of the transducers and of the test system

In order to estimate the quality of a component the presentations of "classic" C-and D-scans are often insufficient. Therefore we developed the option *Frequency-scan* for our *Hillgus for Windows* software which presents a two dimensional plot of the frequency with the maximum spectral amplitude. Exemplarily the Frequency-scan of a CFRP-component shown below produces in defect-free areas relatively high frequencies (indicated red to yellow, 5 to 7 MHz, back-scattering). Delaminations generate echoes with frequencies down to 3 MHz (reflector vertical to the sound path). Regions with pores deliver frequencies between 3 to 5 MHz.



FFT along the marked line