

EXPERT REPORT

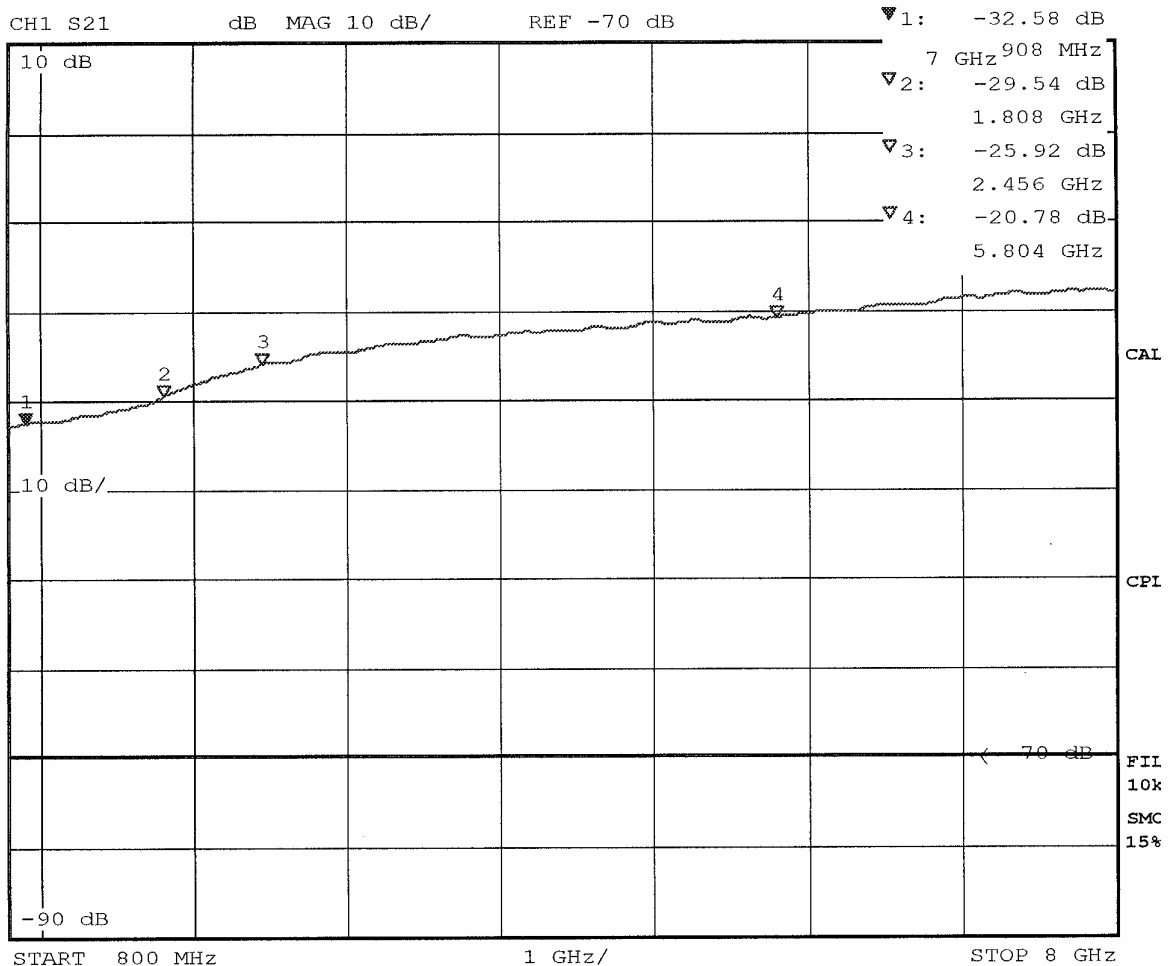
Ordered by: GEOVITAL
Akademie für Geobiologie und Strahlenschutz
Unterwolfbühl 430
A-6934 Sulzberg

Device under Test: GEOVITAL GPA – Shielding Fabric

Subject: Measuring the shielding efficiency against electromagnetic waves from 100 MHz to 20 GHz

Regulations: IEEE 299-1997 and ASTM D-4935-89
(ASTM = American Society of Testing and Materials)

Date of Measurements: 18th of March 2010



4. Final conclusions

The shielding fabric GEOVITAL GPA presents a shielding effectiveness of 30dB in the most interesting frequency range of GSM 900 (at 900MHz). 30dB shielding means a reduction of the transmitted power down to a factor of 1:1000. This promises very good shielding, assumed, the shielding fabric is mounted correctly:

This means no wholes or slots in the fabric and an overlapping of 5cm between two adjacent layers of the fabric.

The reduction of shielding at higher frequencies happens due to the shorter wavelengths in the microwave range.

Neubiberg, 31st of March 2010

Prof. Dipl.-Ing. P. Pauli