YSHIELD®

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Laboratory report screening attenuation

Test object
Shielding paint
MAX54 with paint roller. Thick 4 m²/l + Thin 8 m²/l

Test date
2021/05/11

Guarantee
We bindingly guarantee the shielding attenuation of a product with this laboratory report. The measuring curves represent the mean value of all tested charges, within a tolerance range of +/- 2 dB.

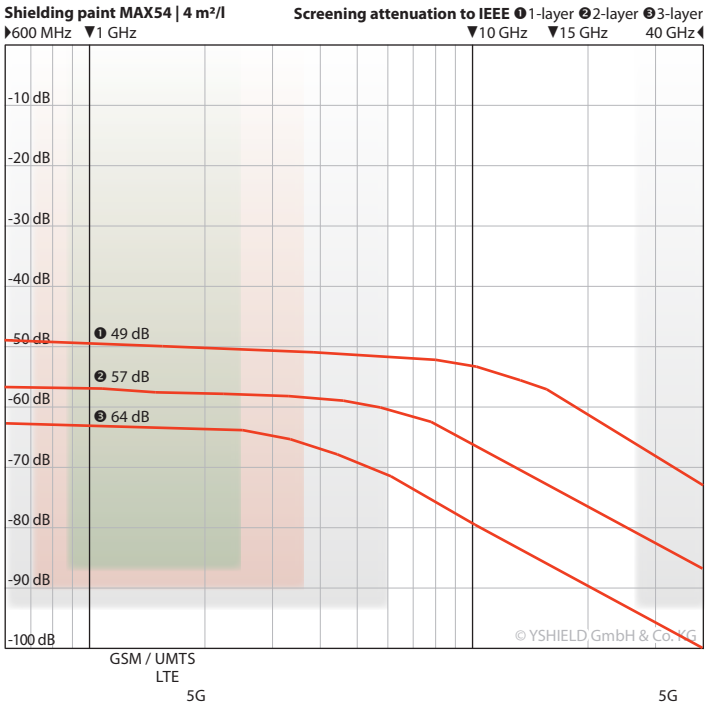
Place of test
Own professional EMC-laboratory according to international standards, for daily quality control and product development.

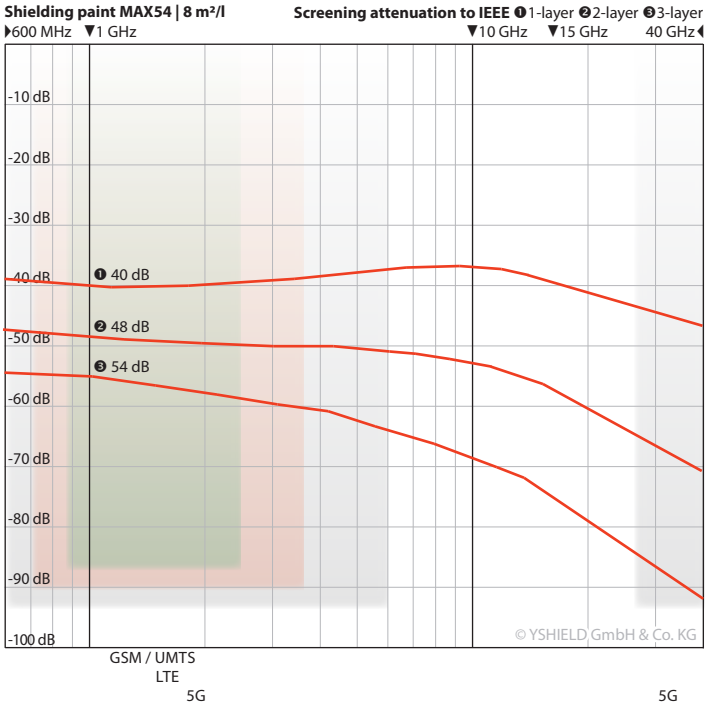
Conformity
The measurement of the attenuation of electromagnetic waves from **600 MHz to 40 GHz** has been performed in close accordance with standards **IEEE Std 299™-2006** or **ASTM D4935-10**.

Test setup
Measuring devices: Vector Network Analyzers Rohde & Schwarz **ZNB20** and **ZNB40** with a measuring dynamics up to 140 dB.

Antennas: For IEEE Std 299™-2006 **horn antennas** with horizontal/ vertical polarisation inside and outside a test chamber. For ASTM D4935-10 **TEM cells** with radial polarisation.

Test implementation Irradiation with the power flux density S1. Measuring the pervasive power flux den-sity S_2. The shielding atten-uation is a non-dimensional measured variable in deci-bels (dB):





$$\mathrm{dB} = 10 \cdot \log_{10} \frac{S_1}{S_2}$$

dB	Dämpfung
10	90 %
20	99 %
30	99,9 %
40	99,99 %
50	99,999 %
60	99,9999 %
...	...

$$\mathrm{dB} = 10 \cdot \log_{10} \frac{S_1}{S_2}$$

dB	Attenuation
10	90 %
20	99 %
30	99.9 %
40	99.99 %
50	99.999 %
60	99.9999 %
...	...