Prof. Dipl.-Ing. P. Pauli
German Armed Forces University Munich
Section: RF- and Microwaves, Radars

85577 Neubiberg, 27th of February 2010
Werner-Heisenberg-Weg 39
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EXPERT REPORT

Ordered by: **YSHIELD** EMR-Protection
Christian Danner
Am Schulplatz
D-94099 Ruhstorf
Germany

Device under Test : **RF- and Microwave Shielding Paint**
One layer, covering 7.5 squaremeter per liter
applied to an even wooden surface

Subject: Shielding-measurements of electromagnetic waves from 200 MHz to 4 GHz, Polarization radially, undirected

Regulations: According to ASTM D4953-89

Date of Measurements: 23rd of February 2010

Contents: 1 page text, 1 measured diagram as appendix

Results: The measurements proved, that the painted surfaces presented a totally identical shielding effectiveness to vertically and horizontally polarized electromagnetic waves.
Another remarkable fact is the very constant and almost frequency independent shielding across the entire measured frequency range.
Details about the shielding effectiveness can be found in the appendix.

Neubiberg, 27th of February 2010

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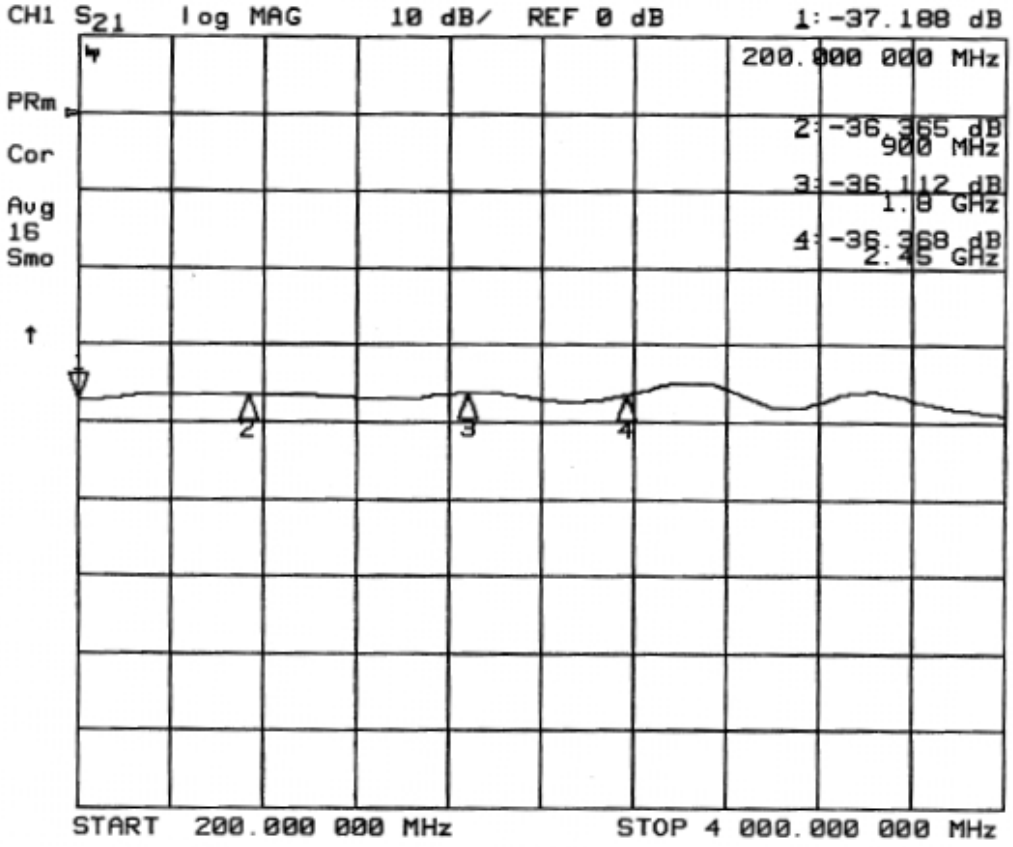
Appendix 1, 27th of February 2010
Undirected Polarisation

Device under test : **RF- and Microwave Shielding Paint <u>one layer</u>,**
applied to an even wooden panel with a productiveness of <u>7.5 m²/liter</u>
(Frequency range: 200 MHz – 4 GHz)



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Device under Test : **RF- and Microwave Shielding Paint**
Double layer, each covering with a productiveness
of 7.5 squaremeter per liter applied to an even wooden surface

Subject: Shielding-measurements of electromagnetic waves from
200 MHz to 4 GHz, Polarization radially, undirected

Regulations: According to ASTM D4953-89

Date of Measurements: 23rd of February 2010

Contents: 1 page text, 1 measured diagram as appendix

Results: The measurements proved, that the painted surfaces presented a totally identical shielding effectiveness to vertically and horizontally polarized electromagnetic waves.
Another remarkable fact is the very constant and almost frequency independent shielding across the entire measured frequency range. Details about the shielding effectiveness can be found in the appendix.

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Appendix 1, 27th of February 2010
Undirected Polarisation

Device under test : **RF- and Microwave Shielding Paint , <u>double layer</u>,**
applied two times to an even wooden panel, each layer
with a productiveness of 7.5 m^2/liter
(Frequency range: 200 MHz – 4 GHz)