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PHOENIX TESTLAB GmbH
Product Certification
Königswinkel 10

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FCC TYPE APPROVAL OF R&S®Series 4200

MPE Calculation / RF Exposure Statement

Subject: R&S®Series 4200 VHF Multichannel Radiocommunications System
Order No. 6144.7400.02
FCC ID KVV61447400

The maximum permissible exposure limit is defined in **47 CFR 1.1310** with **0.2 mW/cm² (general / uncontrolled exposures)** for devices operating in the frequency range of **30 – 300 MHz**.

The max measured conducted output power is 128.8 W (51.1 dBm).
The max antenna gain is typically 2.0 dBi (numeric gain ~ 1.585).

The maximum permitted level is calculated using the general equation:

$$S = P \cdot G / 4\pi R^2$$

$P = 128,8 \text{ W}$; $G = 1,585$ (numeric gain); $\pi = 3,1416$

Solving for R, the power density limit of 0.2 mW/cm² is kept at a distance of 285 cm.

We hereby certify that following RF Exposure Compliance Statement will be submitted together with the users manual:

WARNING: The antenna used with this device must be installed with a separation distance of at least 285 cm to any human body and must not be co-located or operating with any other antenna or transmitter.

Signatory 
Jürgen Schmidt
Head of R&D Ground Radios
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