



America

Certification Exhibit

FCC Rule Part: 47 CFR Part 2.1093

TÜV SÜD Project Number: NC72193137

Manufacturer: Marquardt GmbH
Model: NH1

RF Exposure

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TÜV SÜD

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General Information:

Applicant: Marquardt GmbH
Environment: General Population/Uncontrolled Exposure
Exposure Conditions: Portable

Technical Information:

Minimum Test Separation Distance: 0.2 mm
Highest Operating Frequency: 13.56 MHz
Antenna Type: Loop
Antenna Gain: 0 dBi
Maximum Transmitter Radiated Power: -33.29 dBm, 0.00046881 mW
Maximum Transmitter EIRP: -33.29 dBm, 0.00046881 mW

Justification for SAR Test Exclusion:**Standalone SAR Test Exclusion:**

Per KDB 447498 D01 General RF Exposure Guidance v05r02, the standalone 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR

$$= (0.00046881 / 0.2) \cdot (\sqrt{0.01}) = 0.0$$

0.0 < 3.0

Standalone SAR test exclusion is applied.

Output power was taken from radiated output power measurements performed in test report NC72193137.2.