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1.0 Maximum Permissible Exposure Evaluation (Supplements the test report.)

The measured power is considered for the intended use of the device and resulting RF exposure to the user.

1.2 Criteria

Section Reference	Date
KDB 447498 D01 Mobile Portable RF Exposure v05r01 // RSS-102 Issue 4 March 2010, Notice 2013 DRS0911	2015-05-21

1.3 Procedure

Using measurement of peak power and considering the intended application, determine the permissible exposure level, applicability of exclusion, or whether additional exposure tests (SAR) are indicated. When applicable justify conclusion for selected exposure level and separation distance.

1.4 Power to Exposure Calculation

For 5.8 GHz radio power is determined by conducted measurement. SAR exemption method was applied for 10 mm spacing.

Table 1.4.1 Power Calculation for Exposure, 5.8 GHz Radio (Highest frequency 5.850 GHz)

Measured Conducted Power mW	Calculated Conducted Peak Power dBm	Source Duty Cycle Factor dB	Maximum Antenna Gain dBi	Calculated EIRP dBm	EIRP In Linear Terms mW
20.6	13.14	-12.6	6.0	6.54	4.51

1.5 SAR Exemption Calculation – 3.0 Criteria, 5.8 GHz Band Radio

Applicable requirement: KDB 447498 Clause 4.3.1 Section 1

Calculation (max power including tune up tolerance = 4.51 mW):

$[(4.51\ \text{mW})/(10\ \text{mm})] \cdot [\sqrt{5.852}\ (\text{GHz})] = 1.1$

$1.1 \leq 3.0$

Therefore, the device meets the applicable FCC SAR exemption requirements.

This device meets the SAR Evaluation Exemption criteria in RSS-102 Clause 2.5.1, based on the output power being less than 6 mW for general public use (Table 1: 5.800 GHz for 10 mm.).

Signed:

Eric Lifsey

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