

Prüfbericht - Nr.: 16070926 001

Test Report No.

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1 Safety Human exposure

1.1 Radio Frequency Exposure Compliance

1.1.1 Electromagnetic Fields

RESULT: Passed

Test Specification

Test standard FCC Part 2 section 2.1091

KDB Publication 447498 D01v06 KDB Publication 447498 D03v01

MPE Calculation Method

 $E (V/m)=(30*P*G)^{0.5}/d$ Power Density: $Pd(W/m^2)=E^2/377$

E=Electric Field (V/m)

P=Peak RF output Power (W)

G=EUT Antenna numeric gain (numeric)

d= Separation distance between radiator and human body (m)

The formula can be changed to

 $Pd = (30*P*G)/(377*d^2)$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

Frequency (MHz)	Antenna Gain (Numeric)	Peak	Peak	Power	Limit of	
		Output	Output	Density	Power	Test
		Power	Power	(S)	Density (S)	Result
		(dBm)	(mW)	(mW/cm2)	(mW/cm2)	
2412	-1.55	20.39	109.396	0.01523	1	Complies
2437	-1.55	20.78	119.674	0.01666	1	Complies
2462	-1.55	20.48	111.686	0.01555	1	Complies