

Test Result of RF Exposure Evaluation

According to the KDB-447498 D01 V06, FCC 47CFR § 2.1091 the following RF exposure evaluation shall to demonstrate RF exposure compliance.

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm², P_{out} = output power to antenna in mW;

G = gain of antenna in linear scale, $\pi = 3.1416$;

R = distance between observation point and center of the radiator in cm.

2.4G

Frequency (MHz)	Target power W/ tolerance (dBm)	Max tune up power tolerance (dBm)	Output power to antenna (mW)	Antenna Gain(dBi)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
2405	0.5 ±1.0	1.5	1.41	1.02	0.00036	1.0	Pass
2445	0.5±1.0	1.5	1.41	1.02	0.00036	1.0	Pass
2480	0.5 ±1.0	1.5	1.41	1.02	0.00036	1.0	Pass

BT3.0

	Target power W/ tolerance (dBm)	Max tune up power tolerance (dBm)	Output power to antenna (mW)	Antenna Gain(dBi)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
GFSK/ Pi/4DQPSK/ 8-DPSK	2 ±1.0	3.0	1.995	1.53	0.00057	1.0	Pass

2.4G+BT

MODE	Power Density at R=20cm (mW/cm2) 2.4G	Power Density at R=20cm (mW/cm2) BT	Power Density at R=20cm (mW/cm2) 2.4G+BT	Limit (mW/cm2)	Result
2.4G+BT	0.00036	0.00057	0.00093	1.0	Pass