

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, $\pi = 3.1416$;

$R = 20\text{cm}$ (distance between observation point and center of the radiator in cm)

BT3.0

Frequency	Output Power (dBm)	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
1Mbps								
2402	1.877	2 ±1.0	3.0	1.995	1	0.00050	1.0	Pass
2441	1.458	2 ±1.0	3.0	1.995	1	0.00050	1.0	Pass
2480	2.777	2 ±1.0	3.0	1.995	1	0.00050	1.0	Pass
2Mbps								
2402	0.559	0.5 ±1.0	1.5	1.413	1	0.00035	1.0	Pass
2441	-0.182	0.5 ±1.0	1.5	1.413	1	0.00035	1.0	Pass
2480	0.857	0.5 ±1.0	1.5	1.413	1	0.00035	1.0	Pass
3Mbps								
2402	0.804	0.5 ±1.0	1.5	1.413	1	0.00035	1.0	Pass
2441	0.017	0.5 ±1.0	1.5	1.413	1	0.00035	1.0	Pass
2480	1.040	0.5 ±1.0	1.5	1.413	1	0.00035	1.0	Pass

Conclusion:

So no SAR is required.