

Test Result of RF Exposure Evaluation

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

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

Where

P_d = power density in mW/cm^2 , 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 .

WIFI 5GHz

Frequency (MHz)	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
5732	9.65	8.7 ±1.0	9.7	9.333	3.4	0.006313	1	Pass
5785	8.68	7.7 ±1.0	8.7	7.413	3.4	0.005014	1	Pass
5814	8.54	7.6 ±1.0	8.6	7.244	3.4	0.004900	1	Pass

Conclusion:

So no SAR is required.