

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.

ANT A

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
5180	3 ±1.0	4.0	2.51	2.408	0.00087	1.0	Pass
5210	3±1.0	4.0	2.51	2.408	0.00087	1.0	Pass
5240	3±1.0	4.0	2.51	2.408	0.00087	1.0	Pass
5736	-6 ±1.0	-5.0	0.32	2.408	0.00011	1.0	Pass
5762	-6±1.0	-5.0	0.32	2.408	0.00011	1.0	Pass
5814	-6±1.0	-5.0	0.32	2.408	0.00011	1.0	Pass

ANT B

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
5180	3 ±1.0	4.0	2.51	2.408	0.00087	1.0	Pass
5210	3±1.0	4.0	2.51	2.408	0.00087	1.0	Pass
5240	3±1.0	4.0	2.51	2.408	0.00087	1.0	Pass
5736	-6.5 ±1.0	-5.5	0.28	2.408	0.00010	1.0	Pass
5762	-6.5±1.0	-5.5	0.28	2.408	0.00010	1.0	Pass
5814	-6.5±1.0	-5.5	0.28	2.408	0.00010	1.0	Pass

Simultaneous transmission MPE According to KDB447498 for Transmitters used in mobile exposure conditions for simultaneous transmission operations; Σ of MPE ratios ≤ 1.0

ANT A+ANT B

Frequency (MHz)	Power Density at R=20cm (mW/cm ²) ANT A	Power Density at R=20cm (mW/cm ²) ANT B	Power Density at R=20cm (mW/cm ²) ANT A+ANT B	Limit (mW/cm ²)	Result
5180	0.00087	0.00087	0.00174	1.0	Pass
5210	0.00087	0.00087	0.00174	1.0	Pass
5240	0.00087	0.00087	0.00174	1.0	Pass
5736	0.00011	0.00010	0.00021	1.0	Pass
5762	0.00011	0.00010	0.00021	1.0	Pass
5814	0.00011	0.00010	0.00021	1.0	Pass

Conclusion:

So no SAR is required.