

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
5736	-6.8 ±1.0	-5.8	0.263	2.408	0.00013	1.0	Pass
5762	-6.8 ±1.0	-5.8	0.263	2.408	0.00013	1.0	Pass
5814	-6.8 ±1.0	-5.8	0.263	2.408	0.00013	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
5736	-6.7 ±1.0	-5.7	0.269	2.408	0.00013	1.0	Pass
5762	-6.7 ±1.0	-5.7	0.269	2.408	0.00013	1.0	Pass
5814	-6.7 ±1.0	-5.7	0.269	2.408	0.00013	1.0	Pass

Simultaneous transmission MPE According to KDB447498 for Transmitters used in mobile exposure conditions for simultaneous transmission operations; $\sum$ 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
5736	0.00013	0.00013	0.00026	1.0	Pass
5762	0.00013	0.00013	0.00026	1.0	Pass
5814	0.00013	0.00013	0.00026	1.0	Pass

BT4.0

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
2402	1.8 $\pm$ 1.0	2.8	1.905	1.0	0.000379	1.0	Pass
2440	1.8 $\pm$ 1.0	2.8	1.905	1.0	0.00013	1.0	Pass
2480	1.8 $\pm$ 1.0	2.8	1.905	1.0	0.00013	1.0	Pass

Conclusion:

So no SAR is required.