

MPE ESTIMATION

FCC ID: 2ALU5-G405RX

1,Per FCC Part 2.1091 Radiofrequency radiation exposure evaluation: mobile devices, the limit for General Population/ Uncontrolled Exposures

Frequency	Power density (mW/ cm ²)	Averaging time(minutes)
300MHz----1.5GHz	F/1500	30
1.5GHz---100GHz	1.0	30

Note: F= Frequency in MHz

2, Estimation Result

Mode	Frequency (MHz)	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm ²)
5.2g WiFi Ant. 1	5180	11.36	11±1(12)	15.85	2.77	1.89	0.00596
5.2g WiFi Ant. 2	5180	10.02	10±1(11)	12.59	3.18	2.08	0.00521
MIMO	/	/	/	/	/	/	0.01117
5.8g WiFi Ant. 1	5825	10.69	10±1(11)	12.59	2.77	1.89	0.00473
5.8g WiFi Ant. 2	5825	11.51	11±1(12)	15.85	3.18	2.08	0.00656
MIMO	/	/	/	/	/	/	0.01129

$$Pd = \frac{P_{out} * G}{4\pi r^2};$$

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK2406243282-1E/2E, antenna gain= Antenna 1:2.77dBi, Antenna 2:3.18dBi

When the minimum test separation distance is >20 cm, a distance of 20 cm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 0.01129 mW/cm^2 which is $< 1.0 \text{ mW/cm}^2$, RF Exposure testing is not required.

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