

MPE ESTIMATION

FCC ID: 2BAAR-AT-M269D

1, 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

	Frequency (MHz)	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (numerical)	MPE (mW/cm ²)
BLE	2480	2.82	2±1(3)	1.995	1.73	1.49	0.00059
2.4GWiFi	2462	13.18	13±1(14)	25.199	1.73	1.49	0.00745
EDR	2480	2.80	2±1(3)	1.995	1.73	1.49	0.00059
5.2GWiFi	5240	6.31	6±1(7)	5.012	4.31	2.70	0.00269
5.8GWiFi	5745	5.12	5±1(6)	3.981	4.45	2.79	0.00221

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK2502110485-1E/2E/3E/4E/5E, BT antenna gain=1.73dBi, 2.4GWiFi antenna gain=1.73dBi, 5.2GWiFi antenna gain=4.31dBi, 5.8GWiFi antenna gain=4.45dBi, Simultaneously MPE

2.4GWiFi + Bluetooth = 0.00745 + 0.00059 = 0.00804

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 0.00804 which is < 1.0, RF Exposure testing is not required.

-----The End-----