

MPE ESTIMATION

FCC ID: **2A6ST-CP-W-200**

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

2. Estimation Result

Mode	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	Test Results
WIFI	18.76	18±1(19)	79.43	1	1.2589	0.01990	PASS
BLE	0.22	0±1(1)	1.26	1	1.2589	0.00032	PASS
$Pd = \frac{P_{out} * G}{4\pi r^2}$							
Note:							
Note: The estimation distance is 20cm							
Note: PK Output power= conducted power.							
Conducted power see the test report HK2205091903-1/-2E.							
Gantenna gain=1dBi							

3. Simultaneous transmission MPE Considerations

According to KDB447498 :For mobile exposure host platform to qualify for simultaneous transmission MPE test exclusion, all transmitters and antennas in the host must be either evaluated for MPE compliance, by measurement or computational modeling, or qualify for the standalone MPE test exclusion in section 7.1.

Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is ≤ 1.0 .

This means that:

\sum of MPE ratios ≤ 1.0

BLE and WIFI Simultaneous evaluation:

$$0.01990 + 0.00032 = 0.02022 < 1$$

4. Conclusion

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

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