



MPE ESTIMATION

FCC ID: 2BVXLRfid-SENSOR-1P

1, According to §1.1310, Limit for General Population/ Uncontrolled

Exposures

Frequency	Power density (mW/ cm ²)	Averaging time(minutes)
1.34M---30M	*(180/F ²)	30
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)	Limit (mW/cm ²)
NFC	13.56	-52.01	-53±1(-52)	0.00001	0	1.00	0.000000001	0.98

Note: Max PK Output power(dBm)= 46.19(dBuV/m) - 95.2 = -52.01(dBm)

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power in mW.

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna in cm

Conducted power see the test report HK2604150414-E, antenna gain=0dBi.

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 0.000000001 mW/cm² which is < 0.98 mW/cm², RF Exposure testing is not required.

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