

Prediction of MPE at a given distance

1. Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

2. Test Procedure

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

Where:

S = power density

P = power input to the antenna

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

R = distance to the centre of radiation of the antenna

3. Result

FCC ID: 2AZFE-AAO-MOVIN

Mode	Frequency (MHz)	Prediction distance (cm)	RF output power	MAX tune-uppower		MPE (mW/cm ²)	Limit (mW/cm ²)	SAR Test Exclusion
			dBm	dBm	mW			
BT LE	2402	20	-4.37	-3	0.501	0.0003	1	Yes
BT EDR	2402	20	-1.155	0	1	0.0006	1	Yes
2.4G WiFi	2437	20	14.455	16	31.623	0.0470	1	Yes
5G WIFI B1	5180	20	15.684	17	39.811	0.0623	5	Yes

Maximum Simultaneous transmission MPE Ratios for BT+WIFI:

Max MPE ratio _{BT} /Limit	Max MPE ratio _{WIFI} /Limit	ΣMPE ratios	Limit	Result
0.0006	0.0623	0.0629	1	PASS

BT Antenna Gain: 4.73dBi

2.4G WIFI Antenna Gain: 7.73dBi

5G WIFI Antenna Gain: 7.96dBi

In summary, SAR evaluation is not required.