

**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 <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposure</b>				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f <sup>2</sup>	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f <sup>2</sup>	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-YG600PLUS**

Mode	Frequency (MHz)	Prediction distance (cm)	RF output power	MAX tune-uppower		MPE (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	SAR Test Exclusion
			dBm	dBm	mW			
BT LE	2440	20	-5.707	-5	0.316	0.00064	1	Yes
BT EDR	2402	20	6.648	7	5.012	0.00068	1	Yes
2.4G WiFi	2422	20	19.116	19	79.433	0.02406	1	Yes
5G WIFI B4	5200	20	18.46	19	79.433	0.02181	5	Yes

**Maximum Simultaneous transmission MPE Ratios for BT+WIFI:**

Max MPE ratio <sub>BT</sub> /Limit	Max MPE ratio <sub>WIFI</sub> /Limit	ΣMPE ratios	Limit	Result
0.00068	0.02406	0.02474	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.