

Test Requirement

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), Limits for Maximum Permissible Exposure (MPE),

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 Exposures				
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
300–1500	-	-	f/300	6
1500–100,000	-	-	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
300–1500	-	-	f/1500	30
1500–100,000	-	-	1.0	30

Note: f = frequency in MHz

EVALUATION METHOD

Transmission formula: $Pd = (Pout * G) / (4 * \pi * r^2)$

Where

Pd = power density in mW/cm², **Pout** = output power to antenna in mW, **G** = gain of antenna in linear scale;

Pi = 3.1416, **R** = distance between observation point and center of the radiator in cm



Assessment Result

☒ **Passed**

☐ **Not Applicable**

Frequency (MHz)	Type	Conducted Power (dBm)	Maximum Tune-up (dBm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
2412	2.4G WIFI	22.879	23	0.095490	1.0000	Pass
5230	5G WIFI B1	19.376	20	0.050229	1.0000	Pass
5755	5G WIFI B4	25.78	26	0.157381	1.0000	Pass

Note(1): The exposure evaluation safety distance is 20cm.

2.4G WIFI 8710 Module Antenna Gain:3.81dBi,

8800 Module Antenna Gain:2.42dBi

5G WIFI Antenna Gain:Band 1: 4.02dbi,Band 4: 2.98dbi

Simultaneous transmission=0.095490/1+0.050229/1=0.145719<1.

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