

FCC ID:2BXVO-BY-80-H

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**

2.4G WIFI:

Frequency (MHz)	Type	Total Power (dBm)	Maximum Tune-up (dBm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
802.11b 2437	2.4G WIFI	12.306	12.5	0.006353	1.0000	Pass
Antenna Gain: 2.54dBi Note: PK Output Power (dBm)= Reading result(dBμV/m)-95.2						

BLE:

Frequency (MHz)	Type	Reading Result (dB μ V/m)	Total Power (dBm)	Maximum Tune-up (dBm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
GFSK 2440	BLE 1M	98.14	2.94	3	0.000713	1.0000	Pass
Antenna Gain: 2.54dBi Note: PK Output Power (dBm)= Reading result(dBμV/m)-95.2							

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

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