

FCC ID: 2BN6E-4DKANKAN-META

## 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 <sup>2</sup> )	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 <sup>2</sup> )	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 <sup>2</sup> )	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:  $Pd = (Pout \cdot G) / (4 \cdot \pi \cdot r^2)$

Where

**Pd** = power density in mW/cm<sup>2</sup>, **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-	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
2437	2.4G WIFI	20.66	21	0.054570	1.0000	Pass
2402	BT	5.62	6	0.001726	1.0000	Pass
5230	U-NII Band 1 ANT 1	15.74	16	0.028573	1.0000	Pass
5755	U-NII Band UNII_3 ANT 1	15.46	16	0.028771	1.0000	Pass
5180	U-NII Band 1 ANT 2	14.39	15	0.022696	1.0000	Pass
5745	U-NII Band UNII_3 ANT 2	15.52	16	0.028573	1.0000	Pass

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

**Note(2):** EUT has two antennas and cannot transmit at the same time

**BT EIRP=** Reading result -95.2=100.82-95.2=5.62dBm

**2.4G WIFI Antenna Gain:3.38 dBi, BT Antenna Gain:3.38dBi**

**5G WIFI Antenna Gain:B1:5.57dBi,B4:5.60dBi**

**ANT 2 Simultaneous emission=BT+2.4G WIFI+5G WIFI=0.054570+0.001726+0.028573=0.084869**

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