

## FCC ID: 2A4A7-PTM-102

## **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	Electric field	Magnetic field	Power density	Averaging time	
(MHz)	strength(V/m)	strength (A/m)	(mW/cm <sup>2</sup> )	(minutes)	
12	(A) Limits for (	Occupational/Controlle	d 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		0. 0	f/300	6	
1500-100,000	12	N :N	5	6	
121 12	(B) Limits for Gene	eral Population/Uncon	trolled Exposure	12	
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	0 - 0	27	f/1500	30	
1500-100,000	17)	i - iz.	1.0	30	

Note: f = frequency in MHz

## **EVALUATION METHOD**

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

Where

 $Pd = power density in mW/cm^2$ , Pout = output power to antenna in mW, <math>G = gain of antenna in

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



## **Assessment Result**

$\boxtimes$	Passed		Not Applicable

Frequency (MHz)	Туре	Conducted Power (dBm)	Maximum Tune-up (dBm)	Power Density (mW/cm2)	Limit (mW/cm2)	Result
2437	2.4G-Wi-Fi	21.189	22	0.062367	1.0000	Pass
2402	BLE	-1.748	-1.79	0.000204	1.0000	Pass
5180	U-NII Band 1	9.415	10	0.004528	1.0000	Pass
5785	U-NII Band UNII_3	13.039	14	0.011375	1.0000	Pass

Simultaneous emission=0.062367+0.000204 +0.004528 +0.011375 =0.078474<1.0000

Note: The exposure evaluation safety distance is 20cm.

BLE EIRP= Reading result -95.2

2.4G-Wi-Fi Antenna Gain:2.96 dBi, BLE Antenna Gain:1.1dBi, 5G-Wi-Fi Antenna Gain:3.57dBi

----The End-----



