FCC ID: BBOSC200

RF Exposure Evaluation

LIMIT

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

TEST RESULT

\boxtimes	Passed	☐ Not Applicable
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Frequency range (MHz)	Туре	Conducted Power (dBm)	Maximum Tune-up (dBm)	Power Density (mW/cm2)	Limit (mW/cm2)	Result
2402-2480	BT-EDR	5.60	6.00	0.0014	1.0000	Pass
2402-2480	BT-BLE	0.88	1.00	0.0004	1.0000	Pass
2412-2462	802.11g	13.89	14.00	0.0089	1.0000	Pass
5725-5850	802.11a	16.78	17.00	0.0200	1.0000	Pass

Note:

- 1) The maximum antenna gain is 3dBi (5G WiFi) and 2.5dBi (BT and 2.4G WiFi)
- 2) The exposure evaluation safety distance is 20cm.