FCC §15.247 (i) & §1.1307 (b) (3) & §2.1091- RF EXPOSURE

Applicable Standard

According to subpart 15.247 (i) and subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Report No.: SZNS220815-36838E-RF-00

According to KDB 447498 D04 Interim General RF Exposure Guidance

MPE-Based Exemption:

General frequency and separation-distance dependent MPE-based effective radiated power(ERP) thresholds are in Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

RF Source frequency (MHz)	Threshold ERP (watts)			
3-1.34	1,920 R ² .			
34-30	3,450 R ² /f ² .			
0-300	3.83 R ² .			
00-1,500	0.0128 R ² f.			
,500-100,000	19.2R ² .			

Ris the minimum separation distance in meters f = frequency in MHz

For multiple RF sources: Multiple RF sources are exempt if:

in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation:

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$

Version 12: 2021-11-09 Page 13 of 70 FCC- BLE&2.4G Wi-Fi

Result

Mode Frequency (MHz)		Tune up conducted power	Antenna Gain		ERP		Evaluation Distance	ERP Limit
	,	(dBm)	(dBi)	(dBd)	(dBm)	(W)	(m)	(W)
BLE	2402-2480	9.0	0	-2.15	6.85	0.005	0.2	0.768
Wi-Fi	2412-2462	26.0	0	-2.15	23.85	0.243	0.2	0.768

Report No.: SZNS220815-36838E-RF-00

Note: 1. The tune up conducted power and antenna gain was declared by the applicant. 2. The BLE can't transmit at the same time with the Wi-Fi. 3. 0dBd=2.15dBi

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant.