FCC §15.247 (i) & §1.1307 (b) (3) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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.: SZNS220517-21013E-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)(3)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

Table 1 to § $1.1307(b)(3)(i)(C)$ - Single RF Sources Subject to Routine Environmental Evaluation						
RF Source frequency (MHz)	Threshold ERP (watts)					
0.3-1.34	1,920 R ² .					
1.34-30	3,450 R ² /f ² .					
30-300	3.83 R ² .					
300-1,500	$0.0128 R^2 f.$					
1,500-100,000	19.2R ² .					

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

Result

Mode	Frequency (MHz)	Tune up conducted power	Antenna Gain		ERP		Evaluation Distance	ERP Limit (W)
		(dBm)	(dBi)	(dBd)	(dBm)	(W)	(m)	, ,
BLE	2402-2480	4.5	2	-0.15	4.35	0.003	0.2	0.768
Wi-Fi	2412-2472	12.0	2	-0.15	11.85	0.015	0.2	0.768

Note: 1. The tune up conducted power and antenna gain was declared by the applicant.

2. The BLE and Wi-Fi cannot transmit at same time.

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

Result: Compliant.

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