FCC 1.1307 (B) & §2.1091- MPE-BASED EXEMPTION

Applicable Standard

According to 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.: 2401A110118E-RF-00A2

According to KDB 447498 D04 v01 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 .				

R is the minimum separation distance in meters f = f frequency in MHz

Result

Mode Frequency (MHz)		Tune up conducted power#	Antenna Gain [#]		ERP		Evaluation Distance	ERP Limit
	(dBm)	(dBi)	(dBd)	(dBm)	(mW)	(m)	(mW)	
BT	2402-2480	6.5	5.1	2.95	9.45	8.81	0.2	768
BLE	2402-2480	4.0	5.1	2.95	6.95	4.95	0.2	768
2.4G Wi-Fi	2412-2462	10	5.1	2.95	12.95	19.72	0.2	768
5.2G Wi-Fi	5180-5240	15.0	4.0	1.85	16.85	48.42	0.2	768
5.8G Wi-Fi	5745-5825	16.0	4.6	2.45	18.45	69.98	0.2	768

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

Note 2: 0dBd=2.15dBi.

Note 3: The BT 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