Shenzhen Accurate Technology Co., Ltd.

FCC §1.1307 (B) (3) & §2.1091- MPE-BASED EXEMPTION

Applicable Standard

According to subpart 1.1307 (b) (3) 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.

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:

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

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Result

Mode	Frequency (MHz)	Tune up conducted power	Antenna Gain		ERP		Evaluation Distance	ERP Limit
	(dBm)	(dBi)	(dBd)	(dBm)	(W)	(m)	(W)	
BT	2402-2480	2.0	-0.68	-2.83	-0.83	0.001	0.2	0.768
2.4G Wi-Fi	2412-2462	16.0	2.30	0.15	16.15	0.041	0.2	0.768
5G Wi-Fi	5150-5250	14.0	2.97	0.82	14.82	0.030	0.2	0.768
50 WI-FI	5725-5850	13.0	2.97	0.82	13.82	0.024	0.2	0.768

Note: 1. The tune up conducted power and antenna gain was declared by the applicant. 2. The BT can transmit at same time with 2.4G Wi-Fi or 5G Wi-Fi

3. 0dBd=2.15dBi

Simultaneous transmitting consideration (worst case):

The ratio= ERP_{BT} /limit+ ERP_{Wi-Fi} /limit=0.001/0.768+0.041/0.768=0.055<1.0, so simultaneous exposure is compliant.

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

Result: Compliant.