RF EXPOSURE EVALUATION

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.

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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** Threshold ERP frequency (watts) (MHz) 0.3-1.34 1,920 R². 3,450 R²/f². 1.34-30 30-300 3.83 R². 300-1,500 0.0128 R²f. 1,500-100,000 19.2R².

R is the minimum separation distance in meters f = 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:

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

Result

Mode	Frequency (MHz)	Tune up conducted power [#] (dBm)	Antenna Gain [#]		ERP		Evaluation Distance	ERP Limit
			(dBi)	(dBd)	(dBm)	(W)	(m)	(W)
BT	2402-2480	7.5	1.99	-0.16	7.34	0.005	0.2	0.768
BLE	2402-2480	3.5	1.99	-0.16	3.34	0.002	0.2	0.768
2.4G Wi-Fi	2412-2462	22.0	1.99	-0.16	21.84	0.153	0.2	0.768
5G Wi-Fi	5150-5250	15.5	3.52	1.37	16.87	0.049	0.2	0.768
	5725-5850	14.0	3.52	1.37	15.37	0.034	0.2	0.768

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Note: 1. The tune up conducted power and antenna gain was declared by the applicant. 2. The BT, 2.4G Wi-Fi and 5G Wi-Fi cannot transmit at same time.

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