Bay Area Compliance Laboratories Corp. (Shenzhen)

RF EXPOSURE EVALUATION

MPE-Based Exemption

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.

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 .

R is the minimum separation distance in meters

f = frequency in MHz

Result

Frequency (MHz)	Tune up conducted power [#] (dBm)	Antenna Gain [#]		ERP		Evaluation Distance	ERP Limit
(10112)		(dBi)	(dBd)	(dBm)	(W)	(m)	(W)
2402~2480	7.5	3.00	0.85	8.35	0.01	0.2	0.768
2402~2480	7.5	3.00	0.85	8.35	0.01	0.2	0.768
2412~2462	22.0	3.00	0.85	22.85	0.19	0.2	0.768
5150-5250	13.0	5.22	3.07	16.07	0.04	0.2	0.768
5725-5850	12.0	5.22	3.07	15.07	0.03	0.2	0.768
	(MHz) 2402~2480 2402~2480 2412~2462 5150-5250	Frequency (MHz) conducted power [#] (dBm) 2402~2480 7.5 2402~2480 7.5 2412~2462 22.0 5150-5250 13.0	Frequency (MHz) conducted power [#] (dBm) Antenn 2402~2480 7.5 3.00 2402~2480 7.5 3.00 2412~2462 22.0 3.00 5150-5250 13.0 5.22	Frequency (MHz) conducted power [#] (dBm) Antenna Gain 2402~2480 7.5 3.00 0.85 2402~2480 7.5 3.00 0.85 2412~2462 22.0 3.00 0.85 5150-5250 13.0 5.22 3.07	requency (MHz) conducted power [#] (dBm) Antenna Gain EF 2402~2480 7.5 3.00 0.85 8.35 2402~2480 7.5 3.00 0.85 8.35 2402~2480 7.5 3.00 0.85 8.35 2412~2462 22.0 3.00 0.85 22.85 5150-5250 13.0 5.22 3.07 16.07	Frequency (MHz) conducted power [#] (dBm) Antenna Gain EKF 2402~2480 7.5 3.00 0.85 8.35 0.01 2402~2480 7.5 3.00 0.85 8.35 0.01 2402~2480 7.5 3.00 0.85 8.35 0.01 2412~2462 22.0 3.00 0.85 22.85 0.19 5150-5250 13.0 5.22 3.07 16.07 0.04	Frequency (MHz) conducted power [#] (dBm) Antenna Gain ^{**} ERP Distance (m) 2402~2480 7.5 3.00 0.85 8.35 0.01 0.2 2402~2480 7.5 3.00 0.85 8.35 0.01 0.2 2402~2462 22.0 3.00 0.85 22.85 0.19 0.2 5150-5250 13.0 5.22 3.07 16.07 0.04 0.2

Note:

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

2) The BT, 2.4G and 5G Wi-Fi cannot simultaneous transmitting.

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

Result: Compliant

TR-EM-RF001