1.1307 (b) (1) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 1.1307 (b)(1), 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.

Limits for General Population/Uncontrolled Exposure									
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (Minutes)					
0.3-1.34	614	1.63	*(100)	30					
1.34-30	824/f	2.19/f	*(180/f ²)	30					
30-300	27.5	0.073	0.2	30					
300-1500	/	/	f/1500	30					
1500-100,000	/	/	1.0	30					

Limits for General Population/Uncontrolled Exposure

f = frequency in MHz

* = Plane-wave equivalent power density

a)

Result

Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_{i} \frac{S_i}{S_{Limit,i}} \leq 1$$

Shenzhen Accurate Technology Co., Ltd.

Mode	Frequency (MHz)	Antenna Gain		Tune up conducted power		Evaluation Distance	Power Density	MPE Limit
		(dBi)	(numeric)	(dBm)	(mW)	(cm)	(mW/cm^2)	$(\mathrm{mW/cm}^2)$
BT	2402-2480	3.87	2.44	2.0	1.58	20	0.0008	1
BLE	2402-2480	3.87	2.44	0	1.00	20	0.0005	1
2.4GHz Wi-Fi	2412-2472	3.87	2.44	15.0	31.62	20	0.0153	1
5GHz Wi-Fi	5150-5250	6.65	4.62	14.0	25.12	20	0.0231	1
	5725-5850	6.48	4.45	14.0	25.12	20	0.0222	1

Note: 1. The tune up conducted power was declared by the applicant. 2. The BT, 2.4GHz Wi-Fi and 5GHz Wi-Fi can transmit at same time.

Simultaneous transmitting consideration (worst case):

 $The \ ratio=MPE_{BT}/limit+MPE_{2.4G \ Wi-Fi}/limit+MPE_{5G \ Wi-Fi}/limit=0.0008/1+0.0153/1+0.0231/1=0.0392 < 1.0008/1+0.0153/1+0.0231/1=0.0392 < 1.0008/1+0.0153/1+0.0231/1=0.0392 < 1.0008/1+0.0153/1+0.0231/1=0.0392 < 1.0008/1+0.0153/1+0.0231/1=0.0392 < 1.0008/1+0.0153/1+0.0231/1=0.0392 < 1.0008/1+0.0153/1+0.0231/1=0.0392 < 1.0008/1+0.0153/1+0.0231/1=0.0392 < 1.0008/1+0.0153/1+0.0231/1=0.0392 < 1.0008/1+0.0153/1+0.0231/1=0.0392 < 1.0008/1+0.0153/1+0.0231/1=0.0392 < 1.0008/1+0.0153/1+0.0231/1=0.0392 < 1.0008/1+0.0153/1+0.0231/1=0.0392 < 1.0008/1+0.0153/1+0.0231/1=0.0392 < 1.0008/1+0.00153/1+0.0008/1+0.00153/1+0.0008/1+0.00153/1+0.0008/1+0.00153/1+0.0008/1+0008/1+0.000$

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

Result: Pass