FCC §15.247 (i) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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.

Limits for General Population/Uncontrolled Exposure

Report No.: RXM190926050-00B

| 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 | | | | | |

f = frequency in MHz

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)

| Frequency (MHz) | Antenna Gain | | Max Conducted Power | | Evaluation Distance | Power Density | MPE Limit |
|--------------------|--------------|-----------|------------------------|------|------------------------|------------------|-----------------------|
| | (dBi) | (numeric) | (dBm) | (mW) | (cm) | (mW/cm^2) | (mW/cm ²) |
| 2402-2480 | 3.0 | 2.0 | 2.0 | 1.58 | 20 | 0.0006 | 1.0 |

Note: Bluetooth and Wifi can not transmitting simultaneously.

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

Result: compliance.

FCC Part 15.247 Page 9 of 21

^{* =} Plane-wave equivalent power density