FCC §1.1310 & §2.1091 - MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247 (i) and subpart 1.1310, 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.

Report No.: RSHA241206004-00A

| Limits for General Population/Uncontrolled Exposure | | | | | | | | | | |
|---|----------------------------------|----------------------------------|---------------------------|--------------------------|--|--|--|--|--|--|
| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm²) | Averaging Time (minutes) | | | | | | |
| 0.3-1.34 | 614 | 1.63 | *(100) | 30 | | | | | | |
| 1.34-30 | 824/f | 2.19/f | *(180/f²) | 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; * = Plane-wave equivalent power density

Calculated Formulary:

Predication of MPE limit at a given distance

 $S = PG/4 \pi R^2 = power density (in appropriate units, e.g. mW/cm^2);$

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);

Calculated Data

| Mode | Frequency Range | Antenna Gain | | Tune-up Output Power★ | | Evaluation Distance | Power Density | MPE Limit |
|------|--------------------|--------------|-----------|--------------------------|------|------------------------|-----------------------|-----------------------|
| | (MHz) | (dBi) | (numeric) | (dBm) | (mW) | (cm) | (mW/cm ²) | (mW/cm ²) |
| BLE | 2402-2480 | 2.00 | 1.58 | 5.50 | 3.55 | 20 | 0.001 | 1.0 |

Note:

1. For the above tune-up output power were all declared by the manufacturer.

Result: The device meet FCC MPE at 20 cm distance.

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