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.

According to KDB 447498 D04 Interim General RF Exposure Guidance V01

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

| Mode | Frequency (MHz) | Tune up conducted power [#] (dBm) | Antenna Gain [#] | | ERP | | Evaluation | ERP |
|-----------|--------------------|--|---------------------------|-------|-------|--------|-----------------|--------------|
| | | | (dBi) | (dBd) | (dBm) | (W) | Distance (m) | Limit (W) |
| Bluetooth | 2402-2480 | 4.5 | 0 | -2.15 | 2.35 | 0.0017 | 0.2 | 0.768 |
| BLE | 2402-2480 | 7.5 | 0 | -2.15 | 5.35 | 0.0034 | 0.2 | 0.768 |

Note: 1. The tune up conducted power[#] and antenna gain[#] were declared by the applicant. 2. 0dBd=2.15dBi

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

Result: Compliant.