

## §1.1307 (b) (3) & §2.1091 – RF EXPOSURE

### 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

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)(1)(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             | $19.2 R^2$ .          |

R is the minimum separation distance in meters  
f = frequency in MHz

### Result

| Frequency (MHz) | ★Tune up EIRP (dBm) | ERP   |        | Evaluation Distance (m) | ERP Limit (W) |
|-----------------|---------------------|-------|--------|-------------------------|---------------|
|                 |                     | (dBm) | (W)    |                         |               |
| 24034~24216     | 6.0                 | 3.85  | 0.0024 | 0.2                     | 0.768         |

Note:

1. This device maximum E-Field level is 100.61dBμV/m at 3m, so the EIRP power is 5.41 dBm,
2. EIRP(dBm)=Field Strength of Fundamental(dBuV/m)-95.2
- 3.The Tune-up power provided by manufacturer

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

### Result: Compliance