FCC §1.1307 (B) & §2.1091- MPE-BASED EXEMPTION

Applicable Standard

According to subpart 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)(3)(i)(C)] to support an exemptionfrom 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

Frequency (MHz)	Tune up conducted power [#]	Antenna Gain [#]		EI	RP	Evaluation Distance	MPE-Based Exemption Threshold
, ,	(dBm)	(dBi)	(dBd)	(dBm)	(mW)	(m)	(mW)
1921.536-1928.448	20.0	1.0	-1.15	18.85	76.74	0.2	768

Note 1: The tune-up power and antenna gain was declared by the applicant. Note 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