§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.

Report No.: RXM250320050-00A

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 $\S 1.1307(b)(1)(i)(C)$] 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	19.2R ² .			

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

Result

Mode Frequency Range (GHz)	★ Tune up EIRP (dBm)	ERP		Evaluation Distance	ERP Limit	
	(GHz)	(ubiii)	(dBm)	(W)	(m)	(W)
SRD	24.048-24.216	5.5	3.35	0.00216	0.2	0.768

Note:

- 1. For SRD, the power of EUT: E Field@3m is 100.40 dBuV/m, so the eirp =5.2 dBm
- 2. $E[dB\mu V/m] = EIRP[dBm] + 95.2$ for d = 3 m.
- 3. The tune-up power provide by applicant.

Result: Compliance

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