RF EXPOSURE EVALUATION

Applicable Standard

According to § 1.1307(b)(3)(i)

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Report No.: RKSB231226001-00B

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	$3,450 \text{ R}^2/\text{f}^2$.
30-300	3.83 R ² .
300-1,500	0.0128 R ² f.
1,500-100,000	19.2R ² .

Calculated Data:

				Exemption ERP			Maximum Conducted			
Mode	e 1	equency Range (MHz)	λ/2π (mm)	(dBm)	(mW)	Evaluation Distance (cm)	Power including Tune-up Tolerance (dBm)	Antenna Gain (dBi)	ERP (dBm)	MPE- Based Exemption
2.4G Wi	i-Fi 24	12~2462	19.80	28.85	768	20	20	4.45	22.3	Compliant

Note:

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

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

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