FCC ID: BEJ-LVRF001

According to KDB 447498 D04 Interim General RF Exposure Guidance v01

1. MPE-Based Exemption

An alternative to the SAR-based exemption is provided in § 1.1307(b)(3)(i)(C), for a much wider frequency range, from 300 klb to 100 Glb, applicable for separation distances greater or equal to $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. The MPE-based test exemption condition is in terms of ERP, defined as the product of the maximum antenna gain and the delivered maximum time-averaged power. For this case, a RF source is an RF exempt device if its ERP (watts) is no more than a frequency-dependent value, as detailed tabular form in Appendix B. These limits have been derived based on the basic specifications on Maximum Permissible Exposure (MPE) considered for the FCC rules in § 1.1310(e)(1).

RF Source Frequency (Mtz)	Threshold ERP (watts)				
0.3-1.34	1 920 R2				
1.34-30	3 450 R²/f²				
30-300	3.83 R ²				
300-1 500	0.012 8 R ² f				
1 500-100 000	19.2 R ²				

2. RF Exposure Test Exemptions for Single Source

Mode	Frequency Range (Mb)	Minimum Separation Distance	Maximum Average Output Power (dBm)	Antenna Gain (dBi)	ERP		Threshold ERP (⊮)		Result
	. ,	(cm)	. ,	. ,	(dBm)	(Wn)			
Bluetooth Low energy	2 400 ~ 2 483.5	20	7.50	1.57	6.92	4.92	768	0.006	Pass
WLAN 2.4G	2 400 ~ 2 483.5	20	20	1.57	19.42	87.50	768	0.114	Pass

Note;

- Bluetooth Low Energy and WLAN 2.4G can't simultaneous transmission at the same time.

- ERP (dBm) = Maximum average output power (dBm) + Antenna gain (dBi) - 2.15 (dB). - The ERP threshold as the "R must be at least $\lambda/2\pi$ " as per 1.1307 b)3)C) table 1

- Maximum average output power is the manufacturer's declared rated power

3. Conclusion: No SAR is required.