FCC ID: 2AZK3-TSC-433P

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 $\,\mathrm{klz}$ to 100 $\,\mathrm{GHz}$, 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).

Table 1 to 1.1307(b)(3)(i)(c) – Single RF Sources Subject to Routine Environmental Evaluation

RF Source Frequency (쌘)	Threshold ERP (watts)					
0.3-1.34	1 920 R2					
1.34-30	3 450 R ² /f ²					
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 (쌘)	Minimum Separation Distance (cm)	Maximum Average Target Power	Maximum Tune up (dB)	Maximum Average Output Power	Antenna Gain (dBi)	ERP		Threshold ERP (┉)		Result
		(om)	(dBm)		(dBm)		(dBm)	(mW)			
WLAN 2.4 G	2 400 ~ 2 483.5	20	16	2	18	4.46	20.31	107.40	768	0.140	Pass
WLAN 5G	5 150 ~ 5 250	20	10	3	13	3.61	14.46	27.93	768	0.036	Pass
WLAN 5G	5 725 ~ 5 850	20	10	3	13	3.77	14.62	28.97	768	0.038	Pass

Note;

- WLAN 2.4 G and WLAN 5G can't simultaneous transmission at the same time.
- ERP (dBm) = Maximum average output power (dBm) + Antenna gain (dBi) 2.15 (dB).
- The threshold ERP as the "R must be at least $\lambda/2\pi$ " as per 1.1307 b)3)C) table 1. Maximum average target power is the manufacturer's declared rated power.
- 3. Conclusion: No SAR is required.