FCC ID: 2BDBU-DCSU36K

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 klz to 100 Glz, 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 1.13	307(b)(3)(i)(c) -	Single RF Source	s Subject to Rout	ine Environmental	Evaluation
			S Oubjeet to Rout		LValuation

RF Source Frequency (№)	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

Mode	Frequency Range (陋)	Maximum Average Power (dBm)	Antenna Gain (dBi)	Minimum Separation Distance (cm)	ERP		Threshold ERP	Ratio	Result
					(dBm)	(mW)	(mW)		
Bluetooth Low Energy	2 400 ~ 2 483.5	-9.0	-0.49	40	-11.64	0.069	3072	<u>0.000 022</u>	Pass
WCDMA	1 850 ~ 1 910	25.0	1.58	40	24.43	277.332	3072	0.090 277	Pass
WCDMA IV	1 710 ~ 1 755	25.0	1.79	40	24.64	291.072	3072	0.094 750	Pass
WCDMA V	824 ~ 849	25.0	1.77	40	24.62	289.734	1688	0.171 643	Pass
LTE 2	1 850 ~ 1 910	25.0	1.58	40	24.43	277.332	3072	0.090 277	Pass
LTE 4	1 710 ~ 1 755	25.0	1.79	40	24.64	291.072	3072	0.094 750	Pass
LTE 5	824 ~ 849	25.0	1.77	40	24.62	289.734	1688	0.171 643	Pass
LTE 12	699 ~ 716	25.0	-0.09	40	22.76	188.799	1432	0.131 843	Pass
LTE 13	777 ~ 787	25.0	0.73	40	23.58	228.034	1591	0.143 327	Pass
LTE 25	1 850 ~ 1 915	25.0	1.58	40	24.43	277.332	3072	0.090 277	Pass
LTE 26	814 ~ 824	25.0	1.77	40	24.62	289.734	1667	<u>0.173 806</u>	Pass
LTE 26	824 ~ 849	25.0	1.77	40	24.62	289.734	1688	0.171 643	Pass
LTE 41	2 496 ~ 2 690	25.0	1.60	40	24.45	278.612	3072	0.090 694	Pass

2. RF Exposure Test Exemptions for Single Source

Note;

- Maximum average target power is the manufacturer's declared rated power.

- Maximum average power = Maximum average target power (dBm) + Maximum tune up (dB).

- ERP (dBm) = Maximum average Power (dBm) + Antenna Gain (dBi) -2.15

3. Simultaneous Transmission SAR Test Exemption with Respect to Multiple Exemption Criteria

Either SAR-based or MPE-based exemption may be considered for test exemption for fixed, mobile, or portable device exposure conditions; therefore, the contributions from each exemption in conjunction with the measured SAR (Evaluatedk term) shall be used to determine exemption for simultaneous transmission according to Formula (C.1) [repeated from § 1.1307(b)(3)(ii)(B)].

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$

Bluetooth Low Energy + LTE 26: 0.000 022 + 0.173 806 = 0.173 828 < 1

4. Conclusion: No SAR is required.