

§1.1307 & §2.1093 –RF EXPOSURE

Applicable Standard

§1.1307(b)(3)(i) For signal RF sources (*i.e.*, any signal fixed RF source, mobile device, or portable device, As defined in paragraph (b)(2) of this section): A signal RF source is exempt if.

(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in Paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in Paragraph (b)(3)(ii)(A).

Mode	Frequency Range (MHz)	Maximum EIRP (dBm)	Maximum ERP		1-mW Test Exemption
			(dBm)	(mW)	
LoRa	915	-10.71	-12.86	0.05	Compliant

Note:

1. Chose the maximum power to do MPE analysis.
2. This device maximum E-Field level is 84.49 dBuV/m at 3m, so the EIRP power is -10.71 dBm.
3. Pout EIRP (dBm)= Field strength of Fundamental dBμV/m)-95.2

Result: Compliant. RF Exposure is exemption.