

RF Exposure evaluation

According to 447498 D04 Interim General RF Exposure Guidance v01

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

according to ANSI C63.10

where:

$$\text{EIRP (dBm)} = \text{E (dBuV/m)} - 95.3$$

$$\text{ERP} = \text{EIRP} - 2.15 \text{ dB}$$

$$\text{E} = \text{Field Strength (dBuV/m)}$$

$$\text{So ERP} = \text{E (dBuV/m)} - 95.3 - 2.15$$

For 915MHz

Frequency(MHz)	Field Strength (dBuV/m)	erp(mW)	limit (mW)
915	91.84	0.27	1

For NFC

Frequency(MHz)	Field Strength (dBuV/m)	erp(mW)	limit (mW)
13.56	64.29	0.00048	1

So a SAR test is not required