

FCC ID: 2ABFG-YRD450-N

According to KDB 447498 D04 Interim General RF Exposure Guidance v01

1. 1-mW Test Exemption

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.

2. Test Result

Mode	Frequency Range (MHz)	Minimum Separation Distance (cm)	Maximum Average Target Power (dBm)	Maximum Tune up (dB)	Maximum Average Output Power (dBm)		Limit	Result
					(dBm)	(mW)	(mW)	
Bluetooth Low Energy	2 402 ~ 2 480	20	-3	2	-1	0.794	1	Pass

Mode	Frequency Range (MHz)	Radiated Power (dBuV/m)	Minimum Separation Distance (cm)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
NFC	13.561 7	59.22	20	-38.16	0.000 153	1	Pass

Note ;

- Maximum average target power is the manufacturer's declared rated power.
- Maximum average output power = Maximum average target power (dBm) + Maximum tune up (dB).
- According to ANSI C63.10 Annex G.2
$$ERP = p_t \times g_t = (E_d)^2 / 49.2$$

Where;

P_t is the transmitter output power in watts

G_t is the numeric gain of the transmitting antenna (dimensionless)

E is the electric field strength in V/m

D is the measurement distance in meters (m)

$V/m = 10^{(dBuV-120)/20}$

In case of simultaneous transmission source,

Bluetooth Low Energy + NFC: $0.794 \text{ mW} + 0.000 153 \text{ mW} = 0.794 153 < 1$

3. Conclusion: No SAR is required.