## 1. Description of Equipment under Test

EUT Model	142HL8	
Wireless technology and frequency range	Bluetooth 2.4 GHz, GFSK	
	NFC 13.56 MHz, ASK (NFC A, NFC B)	

## 2. RF Exposure Limits

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)	
	(A) Limits for Oc	ccupational/Controlled Expo	sures		
0.3-3.0	614	1.63	*(100)	) 6	
3.0-30	1842/	f 4.89/	f *(900/f2)	6	
30-300	61.4	0.163	1.0	6	
300-1500			f/300	6	
1500-100,000			5	6	
	(B) Limits for Gene	ral Population/Uncontrolled	Exposure		
0.3-1.34	614	1.63	*(100)	30	
1.34-30	824/	f 2.19/	f *(180/f2)	30	
30-300	27.5	0.073	0.2	30	
300-1500			f/1500	30	
1500-100,000			1.0	30	

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4 * \pi * R^2}$$

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (numerical gain)

R = Distance from Transmitting Antenna

## 3. Power Density Calculations

Band	Frequency (MHz)	Antenna gain (dBi)	Maximum power (dBm)	EIRP (dBm)	Total power (mW)	Power Density @ 20cm (mW/cm^2)	Limit (mW/cm^2)
Bluetooth (LE)	2402	3.77	N/A (EIRP measurement)	-7.3	0.186	0.00003	1
NFC	Exempt based on low power						