

Statement of Human Exposure to Radiofrequency Electromagnetic Field

Equipment

Type of Equipment Nordic ID Merlin
 Model 805-2B
 Manufacturer Nordic ID Oy

Standard

OET Bullet 65, Edition 97-01

RF Exposure compliance for Spread Spectrum Transmitters

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

where: S = power density

P = power input to the antenna (mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator (numeric)

R = distance from the antenna (20 cm)

FCC ID:TWG-SDCMSD30AG / IC ID: 6616A-SDCMSD30AG

WLAN	Frequency (MHz)	P (dBm)	P (mW)	G (dBi)	G (lin)	R (cm)	S (mW/cm ²)	Limit
	2400	18	63	2	1,6	20	0,020064	1

Bluetooth	Frequency (MHz)	P (dBm)	P (mW)	G (dBi)	G (lin)	R (cm)	S (mW/cm ²)	Limit
	2400	5	3	0	1	20	0,000597	1

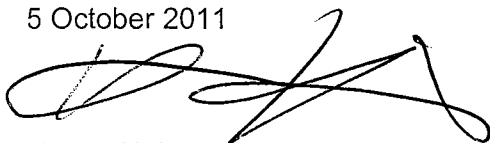
HF RFID	Frequency (MHz)	P (dBm)	P (mW)	G (dBi)	G (lin)	R (cm)	S (mW/cm ²)	Limit
	13,56	-10	0,1	0	1	20	0,000020	0,979

Limits according to OET Bulletin 65, for power density at 1.34-30 Mhz is 180/f² mW/cm² and 1500 – 100 000 Mhz is 1 mW/cm²

Calculated summary power density: 0,020 (mW/cm²)

In considering the calculation it is determined that the requirements according the referred standard is fulfilled.

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