

Model: NZR-O121

RF exposure statement

According to §1.1307, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1091 RF exposure is calculated. Limits for General Population/Uncontrolled Exposure

Frequency Range [MHz]	Electric Field Strength [V/m]	Magnetic Field Strength [A/m]	Power Density [mW/cm²]	Averaging Time [minute]				
Limits for General Population/Uncontrolled Exposure								
0.3 – 1.34	614	1.63	100	30				
1.34 – 30	824/f	2.19/f	180/f ²	30				
30 – 300	27.5	0.073	0.2	30				
300 – 1500	-	-	f/1500	30				
1500 – 100 000	-	-	1.0	30				

1. Friis transmission formula

$$P_{d} = (P_{out} \times G) / (4\pi r^{2})$$

P_d = Power density

P_{out} = power input to antenna

G = power gain

r = distance to the center of radiation of the antenna

Page: 2 of 2 Company
Model: N

Company: NURI Telecom Co., Ltd.. Model: NZR-O121

2. Calculation of MPE at 20 cm

Frequency [MHz]	Max.Average Tune up Power [dBm]	Antenna Gain [dBi]	EIRP		Power density	Limit _
			[dBm]	[mW]	At 20 cm [mW/cm ²]	[mW/cm ²]
2 405	20.42		24.90	309.02	0.27556	
2 440	20.14	4.48	24.62	289.73	0.25836	1.0
2 480	22.76		27.24	529.66	0.47231	