

Manufacturer: GIMASI SA

Name: Oscar Frau

Product: TheNODE

Title: Project Handler

FCC ID: 2AXU7-THENODE

Signature:



MPE limits (§1.1310)

Mode	Frequency MHz	Duty Cycle %	Power dBm	Antenna	EIRP ¹ dBm	EIRP mW	Distance cm	PD ² mW/cm ²	PD Limit ³ mW/cm ²	Margin dB	2.1091 EIRP	2.1091 EIRP	Worst PD/PD values to be considered
				Gain dBi							Limit mW	Margin dB	
GSM 1900 ⁴	1880,0	100	25,8	3,5	29,30	851,1	20	0,169	1,000	7,71	1260	1,70	0,16933
LTE B2 ⁴	1880,0	100	19,2	3,5	22,70	186,2	20	0,037	1,000	14,31	1260	8,30	0,03705
LTE B4 ⁵	1732,5	100	19,3	3,5	22,80	190,5	20	0,038	1,000	14,21	1260	8,20	0,03791
LTE B12 ⁵	707,5	100	20,6	0,4	21,00	125,9	20	0,025	0,472	12,75	594	6,74	0,05310

¹EIRP = (Power dBm + Antenna Gain dBi) + 10 x Log (Duty Cycle % / 100)

²PD = EIRP / (4xπxD²)

³CFR 47 Part 1, §1.1310(e), table 1

⁴See Test Report No: 407658-4TRFWL, §3.3

⁵See Test Report No: 407658-5TRFWL, §3.3

Antenna type SR4L034L; gain 3,5 dBi (GSM 1900, LTE B2, LTE B4) and 0,4 dBi (LTE B12)

2.1091 EIRP Limit

1.1307 (b)(3)(i)(C) exemption limit

RF Source	F	R	λ	λ/2π	R/(λ/2π)	Threshold ERP W	Threshold EIRP W	Threshold EIRP mW	EIRP mW	Margin dB
Frequency MHz	MHz	m	m	m						
300-1500	707,5	0,20	0,424	0,0675	3,0	0,36224	0,594	594	125,9	6,74
1500-100000	1880,0	0,20	0,160	0,0254	7,9	0,76800	1,260	1260	851,1	1,70
	1880,0	0,20	0,160	0,0254	7,9	0,76800	1,260	1260	186,2	8,30
	1732,5	0,20	0,173	0,0276	7,3	0,76800	1,260	1260	190,5	8,20