

Manufacturer: Advanced Microwave Engineering s.r.l.

Name: R. Giampaglia

Product: UWB module

Title: Laboratory Manager

FCC ID: UKOUWBTRPHA02

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	PD/PD Limit	Worst PD/PD values to be considered
				Gain dBi								Limit mW	Margin dB		
UWB ⁴	3774.0	100	-0.6	0		-0.60	0.9	2.5	0.0111	1.000	19.55	20	13.54	0.01109	0.01109 0.22191 0.07280
UWB ⁵	6240.0	100	-1.4	0		-1.40	0.7	2.5	0.0092	1.000	20.35	20	14.34	0.00922	
BT ⁶	2402.0	78.03	11.39	2.1		12.41	17.4	2.5	0.222	1.000	6.54	20	0.53	0.22191	
BLE ⁶	2402.0	64.60	7.37	2.1		7.57	5.7	2.5	0.073	1.000	11.38	20	5.37	0.07280	

FCC Co-Location = 0.23 < 1

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

²PD = EIRP / (4xπxD²)

³CFR 47 Part 1, §1.1310(e), table 1, (ii) Limits for General Population/Uncontrolled Exposure

⁴See FCC ID: UKOUWBTRPHA02 test report n. REP092259 issued by Nemko SpA

⁵See FCC ID: UKOUWBTRPHA02 test report n. REP092260 issued by Nemko SpA

⁶See FCC ID: QOQ-BT122 test report n. SABHSK-WTW-P21030831-2 "RF Exposure Report - (Portable mode)"

2.1091 EIRP

Limit

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

RF Source						Threshold	Threshold	Threshold		
Frequency	f	R	λ	λ/2π	R/(λ/2π)	ERP	EIRP	EIRP	EIRP	Margin
MHz	MHz	m	m	m		W	W	mW	mW	dB
1500-100000	3774.0	0.025	0.079	0.0127	2.0	0.01200	0.020	20	0.9	13.5
	6240.0	0.025	0.048	0.0077	3.3	0.01200	0.020	20	0.7	14.3
	2402.0	0.025	0.125	0.0199	1.3	0.01200	0.020	20	17.4	0.5
	2402.0	0.025	0.125	0.0199	1.3	0.01200	0.020	20	5.7	5.4