



MPE/RF EXPOSURE TEST REPORT

FCC CFR 47 Part 1.1310

Report No.: CATA11-U3 Rev A (FCC MPE)

Company: Catapult Sports Pty Ltd

Model: B001

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To: FCC CFR 47 Part 1.1310

Test Report Serial No.: CATA11-U3 Rev A (FCC MPE)

This report supersedes: NONE

Applicant: Catapult Sports Pty Ltd Company
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1. MAXIMUM PERMISSABLE EXPOSURE

Calculations for Maximum Permissible Exposure Levels

$$\text{Power Density} = P_d (\text{mW/cm}^2) = \text{EIRP} / (4 * \pi * d^2)$$

$$\text{EIRP} = P * G$$

P = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

$$\text{Numeric Gain} = 10 ^ { (G (\text{dBi}) / 10)}$$

The calculations in the table below use the highest conducted power values together with the lowest antenna gain specified for the EUT. These calculations represent worst case in terms of the exposure levels.

The following technologies never operate simultaneously

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Power Density (mW/cm ²) @ 20cm	Power Density Limit (mW/cm ²)	Min Calculated safe distance for Limit (cm)	Calculated Power Density (mW/cm ²) @ Safe Distance
2400.0 - 2483.5 (BLE)	1.0	1.26	1.542	1.43	0.00036	1.00	0.378	0.00036
3993.6 (UWB)	-0.15	0.97	-16.98	0.02	0.000004	1.00	0.04	0.000004
4492.8 (UWB)	-0.15	0.97	-14.69	0.03	0.00001	1.00	0.05	0.00001
6489.6 (UWB)	-0.15	0.97	-7.41	0.18	0.00003	1.00	0.12	0.00003

NOTE: for mobile or fixed location transmitters the minimum separation distance is 20cm, even if calculations indicate the MPE distance to be less.

NOTE: MPE exemption applies for the B001 as the EIRP is <20mW

Specification - Maximum Permissible Exposure Limits

The Limit is defined in Table 1 of FCC §1.1310.



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