



MPE/RF EXPOSURE TEST REPORT

FCC CFR 47 Part 1.1310

Report No.: CATA03_FCC_MPE Rev A

Company: Catapult Sports Pty Ltd

Model Name: VA7401

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Model Name: VA7401

To: FCC CFR 47 Part 1.1310

Test Report Serial No.: CATA03_FCC_MPE Rev A

This report supersedes: NONE

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

Calculations for Maximum Permissible Exposure Levels

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

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

P = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

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

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.

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 (WiFi)	4.0	2.51	19.80	95.50	0.048	1.00	4.37	1.00
5150.0 - 5850.0 (WiFi)	7.0	5.01	11.49	14.09	0.014	1.00	2.37	1.00
2400.0 - 2483.5 (BLE)	2.0	2	1.58	6.90	0.00154	1.00	0.79	1.00
3993.6 (UWB)	2.0	1.58	-8.72	0.13	0.00004	1.00	0.13	1.00

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 VA7401 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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