



SAR Exclusion Evaluation

FCC CFR 47 Part 1.1307

Report No.: CATA07-U6 Rev A

Company: Catapult Sports Pty Ltd

Model Name: S7601

SAR Exclusion Evaluation

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Model Name: S7601

To: FCC CFR 47 Part 1.1307

Test Report Serial No.: CATA07-U6 Rev A

This report supersedes: NONE

Applicant: Catapult Sports Pty Ltd Company
75-83 High St Prahran
Melbourne, Victoria 3181
Australia

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This Test Report is Issued Under the Authority of:

MiCOM Labs, Inc.
575 Boulder Court
Pleasanton California 94566
USA
Phone: +1 (925) 462-0304
Fax: +1 (925) 462-0306
www.micomlabs.com



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Catapult Sports Tag S7601 has 2 transmitters;

- 1) BLE transmitter operating in 2400 – 2483.5 MHz band.
- 2) UWB low power transmitter operating at 6489.6 MHz in the 4750 – 10600 MHz Band.

These calculations use the transmitter power measured during the test programs and are worst case as they do not take into account the time average duty cycle correction factor used on the Tag device during normal operation.

The highest power level measured during testing is used in the following calculations:-

Frequency (MHz)	Maximum Power (dBm)	Maximum Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)
2440.0	3.49	2.72	6.21	4.18
6489.6	-13.74	1.93	-11.81	0.066

Reference – FCC KDB 447498 D01 —Evaluation General RF Exposure Guidance v06 Appendix A:

The EUT meets the SAR exemption limits operating in these bands as grayed out in the table below for ≤ 5 mm distance.

SAR Exemption limits for routine evaluation based on frequency and separation distance. (Appendix A)

Frequency (MHz)	At separation distance of					
	≤ 5 mm	10 mm	15 mm	20 mm	25 mm	
≤ 150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

Conclusion

The Catapult Sports S7601 meets the SAR Test Exclusion Thresholds per FCC KDB 447498 D01 — General RF Exposure Guidance v06 Appendix A, based on the minimum separation distance of ≤ 5 mm between the transmitter antennas of the **Catapult Sports S7601** and user during normal operation.



575 Boulder Court
Pleasanton, California 94566, USA
Tel: +1 (925) 462 0304
Fax: +1 (925) 462 0306
www.micomlabs.com