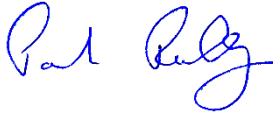


Confidential Report

Project Num	22E10055-2c
Quotation	Q21-2910-1
Prepared For	Output Sports Ltd
Company Address	NovaUCD, University College Dublin Belfield, Dublin D04 V2P1, Ireland
Contact	Julian Eberle
Contact Email	julian@outputsports.com
Prepared By	Compliance Engineering Ireland
Test Lab Address	Clonross Lane, Derrockstown, Dunshaughlin, Co. Meath, Ireland
Tested By	Joy Dalayap
Test Report By	Michael Kirby
FCC Test Firm Registration	409640
IC CAB Identifier	8517A
Date	29 th Sept 2022
EUT Description	Sensor with Bluetooth Low Energy
FCC ID	2A700-OUTPUT-V2
Authorised by	Paul Reilly
Authorised Signature:	

TEST SUMMARY

1.0 SAR Evaluation

Rated output power = 0.5dBm

SAR Exclusion Limits

Excerpt from 447498 KDB (47498 D01 General RF Exposure Guidance v06)

Section 4.3.1 Standalone SAR Test exclusion considerations

4.3.1. Standalone SAR test exclusion considerations

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f_{\text{(GHz)}}} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,}^{25} \text{ where}$$

- $f_{\text{(GHz)}}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁶
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

- 2) At 100 MHz to 6 GHz and for *test separation distances* > 50 mm, the SAR test exclusion threshold is determined according to the following, and as illustrated in Appendix B:²⁷
 - a) [Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance - 50 mm) \cdot ($f_{\text{(MHz)}/150}$)] mW, at 100 MHz to 1500 MHz
 - b) [Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance - 50 mm) \cdot 10] mW at > 1500 MHz and ≤ 6 GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion, and as illustrated in Appendix C:²⁸
 - a) The power threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by $[1 + \log(100/f_{\text{(MHz)}})]$ for *test separation distances* > 50 mm and < 200 mm
 - b) The power threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$ for *test separation distances* ≤ 50 mm
 - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

Appendix 1

Head and Body SAR

Prediction frequency: f	2480	MHz
Rated Output Power	0.50	dBm
Tune up tolerance	1	dB
Rated Power plus tune up tolerance	1.50	dBm
Rated Power plus tune up tolerance (rounded to the nearest mW)	1	mW
Minimum separation distance: D	5	mm
Duty cycle factor (calc over max 30 mins)	0	dB
Calculation [(Max. power of channel, including tune up tolerance, mW / min.test separation distance ,mm)]*[√f (GHz)]	0.31	
Head and Body SAR 100MHz-6GHz ; <50mm		
General pop/Uncontrolled Environment		
Numeric Threshold for 1g SAR	3	
SAR Test not required	0.3 < 3	

End of report