

RF Exposure Report

Project Number: 5053017**Proposal Number:** SUW-202209003458**Report Number:** 5053017EMC07**Revision Level:** 3**Client:** Arccos Golf, LLC.**Equipment Under Test:** Arccos Link Wearable**Model Name:** Arccos Link Pro**Model Number:** L3P**FCC ID:** 2ACQZ-L3P**Module Model:** N52832 QFN48**Applicable Standards:** 47 CFR §§ 2.1093 (Portable)**FCC KDB 447498 D01 General RF Exposure Guidance v06****Report revised on:** 07 September 2023**Result:** Exempt from SAR evaluation

FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 3212.01

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1 General Information

1.1 Client Information

Name: Arccos Golf, LLC
Address: 700 CANAL ST.
City, State, Zip, Country: Stamford, Connecticut 06902, USA

1.2 Test Laboratory

Name: SGS North America, Inc.
Address: 620 Old Peachtree Road NW, Suite 100
City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA
Type of lab: Testing Laboratory
Certificate Number: 3212.01

1.3 General Information of EUT

Type of Product: Arccos Link Wearable
Model Name: Arccos Link Pro
Model Number: L3P
Serial Number: SGS ID#: SUW_SP_20230501689 (Conducted Sample)
SGS ID#: SUW_SP_20230501620 (Radiated Sample)
Module Models: N52832 QFN48

Frequency Ranges: 2402 – 2480 MHz (Bluetooth/BLE)
Antenna Gain: PCB, 2402-2462MHz, 2.4dBi*
Max Conducted Output Power: Bluetooth LE: -10.36dBm*

Sample Received Date: 25 May 2023
Dates of testing: 25 May to 27 June 2023

**Data was not measured by SGS laboratory and therefore not responsible for accuracy. Data obtained via customer, specification sheet, previous regulatory filing or other.*

1.4 Separation Distance

The closest exposure distance occurs when a user attaches the device onto the body with the belt clip accessory.

2 SAR Exclusion Calculations

The highest output power in conjunction with the Upper and Lower frequency boundaries have been used to demonstrate compliance for Bluetooth mode. Simultaneous transmission is not possible.

The EUT is considered an extremity, head and body application. Typical use distance will be at ≤ 5 mm distance. SAR exemption was calculated down to a 5mm distance to demonstrate compliance.

External Bluetooth LE (FCC ID: 2ACQZ-L3P)

447498 D01 General RF Exposure Guidance v06

SAR test exclusion calculations

Section 4.3: General SAR test exclusion guidance / Section 4.3.1: Standalone SAR test exclusion considerations

	Input	Select Units	
Max Power:	-10.36	dBm	
Duty Cycle:	100.0%		<== Source based time average duty cycle
Min separation distance:	5	mm	
Frequency, f:	2480	MHz	

Value reference Number	Values used for Calculation		Reference number definition
v1	0.092	mW	[max. power of channel, including tune-up tolerance, mW] 'Rounded to nearest mW'
v2	5	mm	[min. test separation distance, mm] 'Rounded to nearest mm'
v3	1.575		[$\sqrt{f}(\text{GHz})$]

a) For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:
 $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f}(\text{GHz})] \leq 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR,

Exclusion Calculation(1g):	0.0290	number	$\leq [v2 / v3]$ must be less than 3
Exclusion Calculation(10g):	0.0290	number	$\leq [v2 / v3]$ must be less than 7.5

Conclusions (Body):	The EUT max power is BELOW the threshold. SAR Testing is NOT required for Body applications
Conclusions (Extremity):	The EUT max power is BELOW the threshold. SAR Testing is NOT required for Extremity applications

Conclusion: Based upon the Maximum Conducted Output Power of -10.36dBm, the equivalent power would be 0.0920449572 milliwatts which is below the threshold value needed to perform SAR. No SAR testing is required.

3 Revision History

Revision Level	Description of changes	Revision Date
0	Initial Release	12 July 2023
1	Updated SAR Calculation to 5mm	19 July 2023
2	Removed Photo	23 August 2023
3	Updated Antenna Gain from 2.2 dBi to 2.4 dBi per antenna sheet	07 September 2023