RF Exposure Report

FCC ID	:	2BCY2-RKKCP01
Equipment	:	Coil Pro
Brand Name	:	Rokoko
Model Name	:	RKK-CP-01
Applicant	:	Rokoko Electronics ApS Sankt Gertruds Stræde 10, 1129 København
Manufacturer	:	Rokoko Electronics ApS Sankt Gertruds Stræde 10, 1129 København
Standard	:	FCC CFR 47 part 2.1091

The product was received on Sep. 20, 2023 and testing was started from Oct. 11, 2023 and completed on Oct. 11, 2023. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample provide by manufacturer and the test data has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1091 and FCC KDB 680106 D01v03r01 and has been pass the FCC requirement.

The results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Cona Huang / Deputy Manager

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA370328	Rev. 01	Initial issue of report	Dec. 12, 2023

1. Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT Type	Coil Pro
Brand Name	Rokoko
Model Name	RKK-CP-01
FCC ID	2BCY2-RKKCP01
Frequency Range	21 KHz ~ 23 KHz
HW Version	RKK-CP-01

2. RF Exposure Limit

According to KDB 447498 D04 Table1, when the device operate frequency is ≤ 100 kHz, the RF Exposure limit can be reference to KDB 680106 section3)a)2).
Evaluation of RF Exposure test data for determining compliance of systems (both portable and not) operating at frequencies below 100 kHz is provided on a case-bycase basis following a KDB inquiry. In these situations, a device may be considered acceptable when supporting data from measurements and/or numerical simulations show that, for all the positions of space relevant for the body exposure, the external (unperturbed) temporal peak field strengths do not exceed the following reference levels:

- 83 V/m for the electric field
- 90 A/m for the magnetic field

3. Measurement Equipment

Instrument	Manufacturer	Model No.	Serial No.	Freq. Range	Last Cal.	Due Date
Electric and Magnetic field Probe-Analyzer	Narda S.T.S / PMM	EHP 200AC	170WX80309	3KHz~30MHz	Nov. 03, 2022	Nov. 02, 2023

4. RF Exposure Evaluation

General Note:

1. The device generates a magnetic field with known strength and is used in a motion capture global positioning application, where a receiver device can determine positioning within the field by fusing sensor EMF + IMU data.
2. When the product is on, the receiver will measure user movement within the field.
3. When the user is too close to the product (approximately 50-70cm), the performance of the sensor fusion is poor, as the EME sensor data becomes saturated. We therefore recommend in regular use for our application, that the user remains at least this distance from the product during regular operation for optimal performance reasons.
4. The product function (generate the necessary field for receiver measurement) at more than 20 cm from the human body, and as mentioned above, this recommended for optimal performance. The device is powered using a AC<>DC power adapter, and is stationary during operation to maintain a stable origin for global positioning. Therefore, RF exposure evaluation is tested at 20 cm.

Position	E-Field Measurement (V/m)					limit	Result
	Front	Left	Right	Top	Bottom		
Test Dis.(mm)	200	200	200	200	200		
Adapter	41.496	41.254	34.296	36.454	40.542	83	Pass

Position	H-Field Measurement (A/m)					limit	Result
	Front	Left	Right	Top	Bottom		
Test Dis.(mm)	200	200	200	200	200		
Adapter	33.079	34.159	33.061	36.232	32.923	90	Pass

Conclusion:

The measurement E/H-Field resuls for for all the positions of space relevant for the body exposure, the external (unperturbed) temporal peak field strengths is compliance with:

- 83 V/m for the electric field
- 90 A/m for the magnetic field