

Test Report

Prepared for: Deviceroy

EUT Name: ARIA1

Model: ARIA1

FCC ID: 2A3KPARIA1

To

FCC Part 2.1093
RSS 102

Date of Issue: 11/16/2022

On the behalf of the applicant:

Viceroy Devices Corporation dba Deviceroy
Salt Lake City, Utah, USA

Attention of:

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Alex Macon
Project Test Engineer

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	November 16, 2022	Alex Macon	Original Document

ANAB

Compliance Testing, LLC, has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to the joint ISO-ILAC-IAF Communiqué dated January 2009).

The tests results contained within this test report all fall within our scope of accreditation, unless noted below.

Please refer to <http://www.compliantesting.com/labscope.html> for current scope of accreditation.



FCC Site Reg. #349717

IC Site Reg. #2044A-2

Non-accredited tests contained in this report:

N/A

EUT Description

Model: 324001

Description: viDoc RTK Rover for iPhone 12 Pro

Transmitter Description

Protocol: Bluetooth Low Energy

Frequency Range: 2402 – 2480 MHz

Antenna Type: Chip Antenna

Antenna Gain: 2.4 dBi

Grant Output Power: 0.318 mW (Conducted)

Protocol: LoRa

Frequency Range: 902 – 928 MHz

Antenna Type: Omni Antenna

Antenna Gain: 1.5 dBi

Grant Output Power: 34.75mW (Conducted)

RF Exposure Test Exemption for Single Source

Transmitter 1		Formula		$S = P \cdot G / 4 \cdot \pi \cdot r^2$					
903 MHz		Power Density (S) mw/cm^2		Power mW (P)		Neumaric Gain (G)		Distance (r^2) cm	
		0.0097526871		34.75		1.41		20	
Transmitter 2		Formula		$S = P \cdot G / 4 \cdot \pi \cdot r^2$					
2402 MHz		Power Density (S) mw/cm^2		Power mW (P)		Neumaric Gain (G)		Distance (r^2) cm	
		0.0001126672		0.318		1.78		20	
Co-located power density		0.0098653543							

2402 MHz

1.1307(b)(3)(i)(B) P Threshold							
				Portable 2.1093		Mobile 2.1091	
Frequency GHz	ERP _{20cm} mW	x	d cm	P _{th} (0.5 ≤ d ≤ 20 cm) mW	Limit Ratio ERP _{dut} / P _{th}	P _{th} (20 < d ≤ 40 cm) mW	Ratio to Limit ERP _{dut} / P _{th}
0.3 - 1.5	4900.080	2.102	20	4900.080	36.902	0.000	4900.080
1.5 - 6	3060.000	1.898	20	3060.000	34.857	0.000	3060.000

903 MHz

1.1307(b)(3)(i)(B) P Threshold							
				Portable 2.1093		Mobile 2.1091	
Frequency GHz	ERP _{20cm} mW	x	d cm	P _{th} (0.5 ≤ d ≤ 20 cm) mW	Limit Ratio ERP _{dut} / P _{th}	P _{th} (20 < d ≤ 40 cm) mW	Ratio to Limit ERP _{dut} / P _{th}
0.3 - 1.5	1842.120	1.465	20	1842.120	32.653	0.027	1842.120
1.5 - 6	3060.000	1.685	20	3060.000	34.857	0.016	3060.000

The simultaneous transmission ratio is 0.027 which is less than 1.

END OF TEST REPORT