

iKeyless, LLC / URSSA-G040

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RF Exposure Report

Project Number: 5149429 Offer Number: SUW-202312005691

Report Number: 5149429EMC02 Revision Level: 1

Client: iKeyless, LLC

Equipment Under Test: Keyless Entry Remote Control

Model Number: URSSA-G040

FCC ID: X32-URSSG040

Applicable Standards: 47 CFR §§ 2.1093 (Portable)

FCC KDB 447498 D01 General RF Exposure Guidance v06

Report Issued Date: 23 April 2024

Report Revision Date: 03 July 2024

Result: Exempt from SAR evaluation





FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 3212.01
This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the Federal Government.

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1 General Information

1.1 Client Information

Name: iKeyless LLC

Address: 12101 Sycamore Station Place, Suite 101

City, State, Zip, Country: Louisville, KY 40299

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: Keyless Entry Remote Control

Model Number: URSSA-G040 Firmware Version: URSSA-G040

Sample ID: SUWEM2301000004 FCC ID: X32-URSSG040

Frequency Range: 315 - 434 MHz

Modulation: ASK / FSK

Antenna: PCB trace loop (315MHz: -13.4 dBi, 434MHz: -9.5 dBi)

Max Average EIRP: 315MHz: -34.4 dBm (72.59 dBuV/m max avg field strength at 3m)

434MHz: -27.1 dBm (79.86 dBuV/m max avg field strength at 3m)

Sample Received Date: 09 February 2024

Dates of testing: 12 February to 26 February 2024

1.4 Separation Distance

The worst-case RF exposure occurs when a user places the remote control key in his or her pocket, such that there is close to no separation distance between the device and the user's body. A distance of 5mm is used if the distance is 5mm or less.

SGS North America Inc.

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



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2 SAR Exclusion Calculations

The highest output power in conjunction with the transmit frequency has been used to demonstrate compliance.

The highest power level was obtained from the radio test report.

The EUT is considered a body application. Note that it can be held in the hand (extremity) as well, but the body application is the worst case for exclusion limits.

Results: SAR testing is exempt.

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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:	-34.4	dBm	
Duty Cycle:	100.0%		<== Source based time average duty cycle
Min separation distance:	5	mm	
Frequency, f:	315	MHz	

Value reference Number			Reference number definition
V1	0	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	0.561		[\f(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: [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR,

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Exclusion Calculation(1g):	0.0000	number	<= [v2/v3] must be less than 3
Exclusion Calculation(10g):	0.0000	number	<== [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

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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:	-27.1	dBm	
Duty Cycle:	100.0%		<== Source based time average duty cycle
Min separation distance:	5	mm	
Frequency, f:	433	MHz	

Value reference	Values use	ed	Reference number definition	
Number	for Calculation		Reference number definition	
v1	0	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	0.658		[√f(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:
[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR,

Exclusion Calculation(1g):	0.0000	number	<== [v2 / v3] must be less than 3
Exclusion Calculation(10g):	0.0000	number	<== [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

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3 Revision History

Revision Level	Description of changes	Revision Date
0	Initial Release	23 April 2024
1	Values were updated in accordance with the recalculated measurements.	03 July 2024

SGS North America Inc.

Connectivity & Products

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