

RF Exposure Report

Report No.: FCC RF Exposure SL21081301-ROK-006

FCC ID: TC2-R1039

Test Model: RC-MC1

Series Model: N/A

Received Date: 08/05/2021

Test Date: 05/06/2021-11/16/2021

Issued Date: 11/15/2021

Applicant: Roku, Inc.

Address: 1155 Coleman Ave., San Jose, CA 95110 USA

Manufacturer: Roku, Inc.

Address: 1155 Coleman Ave., San Jose, CA 95110 USA

Issued By: Bureau Veritas Consumer Products Services, Inc.

Lab Address: 775 Montague Expressway, Milpitas, CA 95035

Test Location (1): 775 Montague Expressway, Milpitas, CA 95035

FCC Registration / Designation Number: 5

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Release Control Record

Issue No.	Description	Date Issued
FCC_RF Exposure_SL21081301-ROK-006	Orignal Release	11/16/2021



1	Certificate	of Conformity

Product: WiFi Remote Control

Brand: Roku, Inc.

Test Model: RC-MC1

Series Model: N/A

Sample Status: Engineering sample

Applicant: Roku, Inc.

Test Date: 05/06/2021-11/16/2021

Standards: FCC Part 2 (Section 2.1093)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment has been tested by **Bureau Veritas Consumer Products Services**, **Inc.**, **Milpitas Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :	Francisco COLMENARES	Date:	11/15/2021	
	Francisco COLMENARES/ Test Engineer			
	Gary Chou	,		
Approved by :		Date:	11/15/2021	
	Gary Chou / Engineer Reviewer			



2 Evaluation Result

Following FCC KDB 447498 D01 "General SAR test exclusion guidance"

The corresponding SAR Exclusion Threshold condition, listed below:

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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}]$ ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz.
- Power and distance are rounded to the nearest mW and mm before calculation.
- The result is rounded to one decimal place for comparison 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 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:
 - a) [Threshold at 50 mm in step 1) + (test separation distance 50mm)·(f(MHz)/150)] mW, at 100MHz to 1500 MHz
 - b) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
 - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by [1 + log(100/f(MHz))] for test separation distances > 50 mm and < 200 mm.
 - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$ for test separation distances \leq 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.



3 SAR Test Exclusion Thresholds

Mode	Frequency (MHz)	Max. Power (mW)	Tune-Up Tolerance	•	SAR test exclusion calculation value	1-g SAR test exclusion thresholds	Result
2.4Ghz B Mode	2412	3.9627	±1dB	5	1.5495	3	Pass
5Ghz N Mode	5240	4.7973	±1dB	5	2.765	3	Pass

Note:

- 1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- 2. The antenna type is chip antenna with -0.8dBi gain at 2412MHz and 2.9 dBi at 5240MHz, 3.9dBi at 5.8
- 3. Calculate SAR test exclusion thresholds from condition "1" formulas.

4 Conclusion

The SAR evaluation is not required.

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