Quip NYC, Inc.
RF Exposure Exhibit

SCOPE OF WORK
EMC TESTING – Toothbrush, Part Numbers: 900-00127, 900-00128 and 900-00129

REPORT NUMBER
104243565MPK-013B

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June 02, 2020

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Non-Specific Radio Report Shell Rev. December 2017 MPK

RF Exposure Exhibit
(Portable devices)

Report Number: 104243565MPK-013B
Project Number: G104243565

Report Issue Date: June 02, 2020

Product Designation: Toothbrush
Part Numbers Tested: 900-00127, 900-00128 and 900-00129

FCC ID: 2AT6D-85000070RA

to

47CFR 2.1093
RSS-102 Issue 5

for

Quip NYC, Inc.

Tested by:	**Client:**
Intertek	Quip NYC, Inc.
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Report prepared by:	**Report reviewed by:**
	
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Report No. 104243565MPK-013B	
Equipment Under Test:	Toothbrush
Trade Name:	Quip
Part Numbers:	900-00127 900-00128 900-00129
Applicant:	Quip NYC, Inc.
Contact:	Kiley Boehler
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Applicable Regulation:	47CFR 2.1093 RSS-102 Issue 5
Date of Test:	May 11 to May 26, 2020

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1.0 RF Exposure Summary

Test	Reference FCC	Reference Industry Canada	Result
Radio frequency Radiation Exposure Evaluation	47 CFR§2.1093	RSS-102 Issue 5	Complies

2.0 RF Exposure Limits

2.1 FCC Limits

According to FCC KDB 447498 D01 v06 Appendix A, at frequency 2450 MHz and separation distance of ≤ 5 mm SAR Exemption limit is ≤ 10 mW.

2.2 Industry Canada Limits

According to RSS-102 sec. 2.5.1, at frequency 2450 MHz and separation distance of ≤ 5 mm SAR Exemption limit is ≤ 4 mW.

3.0 Test Results (Portable Configuration)

3.1 Classification

For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

3.2 EIRP calculations

900-00127, 900-00128 and 900-00129 have identical BLE circuitry. All models consist of Bluetooth Low Energy radio.

3.3 Maximum RF Power

Frequency Range (MHz)	RF Output (dBm)	Antenna Gain[1] (dBi)	Note
2402-2480	-1.65	--0.3	Conducted power measurements were taken from Report # 104243565MPK-013

[1]As declared by the manufacturer.

3.4 RF Exposure Calculation

3.4.1 RF Exposure calculation for FCC KDB 447498 D01 v06

According to FCC KDB 447498 D01 v06 Appendix A, at frequency 2450 MHz and separation distance of ≤ 5 mm SAR Exemption limit is ≤ 10 mW.

Max Peak Conducted Power measured = -1.65 dBm or 0.684 mW

No duty cycle was considered.

Therefore, the Maximum EIRP calculated is -1.65 dBm (RF Conducted Power) + 0 dBi (Antenna Gain) = -1.65 dBm or 0.684 mW.

Results: SAR evaluation is not required since the higher of the maximum conducted or equivalent isotopically radiated power (EIRP) source-based, time averaged output power is below the exemption limit.

Note: Antenna gains below 0 are considered as 0dBi.

3.4.2 RF Exposure calculation for RSS-102 Issue 5

According to RSS-102 sec. 2.5.1, at frequency 2450 MHz and separation distance of ≤ 5 mm SAR Exemption limit is ≤ 4 mW.

Max Peak Conducted Power measured = -1.65 dBm or 0.684 mW

No duty cycle was considered.

Therefore, the Maximum EIRP calculated is -1.65 dBm (RF Conducted Power) + 0 dBi (Antenna Gain) = -1.65 dBm or 0.684 mW

Results: SAR evaluation is not required since the higher of the maximum conducted or equivalent isotopically radiated power (EIRP) source-based, time averaged output power is below the exemption limit.

Note: Antenna gains below 0 are considered as 0dBi.

4.0 Document History

Revision/ Job Number	Writer Initials	Reviewers Initials	Date	Change
1.0/ G104243565	AK	KV	June 02, 2020	Original document