

KiwiCo Inc.

TEST REPORT

SCOPE OF WORK:

FCC 2.1093 – RF Exposure Evaluation Report

Model:

F2095-ESPK

REPORT NUMBER

210600210THC-001

ISSUE DATE

Jan. 11, 2022

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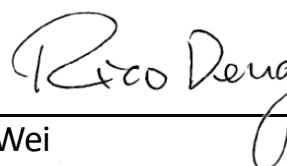


RF Exposure Evaluation Report

Applicant:	KiwiCo Inc. 140 E Dana St., Mountain View, CA, USA 94043
Product:	Eureka Laser Speaker
Model No.:	F2095-ESPK
FCC ID:	2A2FL-ESPK
Test Method/ Standard:	47 CFR FCC 2.1093 KDB 447498
Test By:	Intertek Testing Services Taiwan Ltd., Hsinchu Laboratory No. 11, Lane 275, Ko-Nan 1 Street, Chia-Tung Li, Shiang-Shan District, Hsinchu City, Taiwan



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Reviewer

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Revision History

Report No.	Issue Date	Revision Summary
210600210THC-001	Jan. 11, 2022	Original report

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1. General Information

1.1 Identification of the EUT

Product:	Eureka Laser Speaker
Model No.:	F2095-ESPK
Operating Frequency:	2402 MHz ~ 2480 MHz
Channel Number:	79 channels
Frequency of Each Channel:	2402+1 k, k=0 ~ 78
Rated Power:	DC 5V
Power Cord:	N/A
Sample receiving date:	2021/06/17
Sample condition:	Workable
Test Date(s):	2021/12/24 ~ 2021/12/27

1.2 Antenna description

Antenna Gain : -0.58 dBi
 Antenna Type : Printed Antenna
 Connector Type : Fixed

1.3 Peripherals equipment

Peripherals	Brand	Model No.	Serial No.	Data cable
Notebook PC	HP	HP ProBook 440 G3	5CD8021S9H	Mini USB cable 0.5m

2. Test specifications

2.1 RF Exposure calculations

According to KDB 447498 D01 , Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

Clause 4.3: General SAR test reduction and exclusion guidance Sub , clause 4.3.1: Standalone SAR test exclusion considerations

a) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 5 mm are determined by:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation, mm}} \right] * \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR}$$

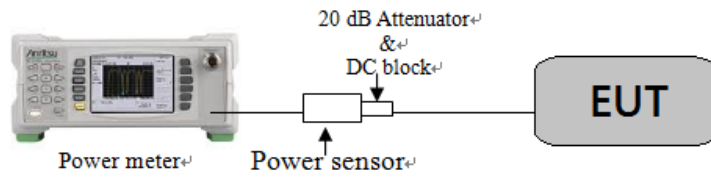
$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation, mm}} \right] * \sqrt{f(\text{GHz})} \leq 7.5.0 \text{ for 10-g SAR}$$

2.2 Operation mode

Connected to Notebook PC via USB Cable, executing “FCC assist V1.0.2.2” and select different frequency and modulation.

2.3 Test equipment

Equipment	Brand	Model No.	Serial No.	Calibration Date	Next Calibration Date
Power Meter	Anritsu	ML2495A	0844001	2021/10/17	2022/10/16
Power Sensor	Anritsu	MA2411B	0738452	2021/10/17	2022/10/16
RF Cable	SUHNER	SUCOFLEX 104P	CB0006	2021/04/29	2022/04/28

2.4 Test Set-up

3. Test results

Temperature (°C):	20
Relative Humidity (%):	63
Test date:	2021/12/27

Mode	Frequency (GHz)	Conducted Power (dBm)	Output Tolerance	Max Power (dBm)	Power (mW)	Result	SAR Exclusion
DH5	2.402	5.60	2.00	7.60	5.75	1.784	3
	2.441	5.54	2.00	7.54	5.68	1.773	3
	2.480	5.27	2.00	7.27	5.33	1.680	3
2DH5	2.402	4.57	2.00	6.57	4.54	1.407	3
	2.441	4.50	2.00	6.50	4.47	1.396	3
	2.480	4.14	2.00	6.14	4.11	1.295	3
3DH5	2.402	4.60	2.00	6.60	4.57	1.417	3
	2.441	4.52	2.00	6.52	4.49	1.402	3
	2.480	4.51	2.00	6.51	4.48	1.410	3

Note: All results ≤ 3.0 for 1-g SAR extremity SAR, SAR test is not required.