# RF EXPOSURE EVALUATION REPORT

FCC ID : A4RGWSQ2

**Equipment**: Wireless Device

Model Name: GWSQ2

Applicant : Google LLC

1600 Amphitheatre Parkway, Mountain View, CA, 94043 USA

Standard: 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part2.1091 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3786) and the FCC designation No. TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

The results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full.

Approved by: Cona Huang / Deputy Manager

Gua Grang

ilac MRA



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## SPORTON LAB. RF EXPOSURE EVALUATION REPORT

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# History of this test report

Report No.: FA4D1913B

Report No.	Version	Description	Issued Date
FA4D1913B	Rev. 01	Initial issue of report	Apr. 10, 2025

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### 1. <u>Description of Equipment Under Test (EUT)</u>

Product Feature & Specification			
EUT Type	Wireless Device		
Model Name	GWSQ2		
FCC ID	A4RGWSQ2		
Wireless Technology and Frequency Range	60.5GHz		
Mode	60.5GHz: 2ASK		

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Reviewed by: <u>Jason Wang</u> Report Producer: <u>Paula Chen</u>

### 2. Maximum RF average output power among production units

Mode	Maximum EIRP power(dBm)
60GHz	4

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#### 3. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

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Frequency range (MHz)	Electric field strength (V/m)	c field strength Magnetic field strength (A/m)		Averaging time (minutes)
800 B.	(A) Limits for Oc	cupational/Controlled Expo	sures	W
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/	f 4.89/	f *(900/f2)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
	(B) Limits for Gene	ral Population/Uncontrolled	Exposure	
0.3-1.34	614	1.63	*(100)	30
1.34-30 824		f 2.19/	f *(180/f2)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna

## 4. Radio Frequency Radiation Exposure Evaluation

Band	Maximum EIRP (dBm)	Maximum PG (mW)	Power Density at 20cm (mW/cm^2)	Limit (mW/cm^2)
60GHz	4.00	2.51	0.0005	1.000

#### **General Note:**

1. 60GHz RFx is not applicable according the user case, and it will be away 20cm from human body during operation

#### **Conclusion:**

 $According to 47\ CFR\ \S 2.1091, the\ RF\ exposure\ analysis\ concludes\ that\ the\ RF\ Exposure\ is\ FCC\ compliant.$ 

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