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## RF EXPOSURE REPORT

Applicant: **GOOGLE LLC** 

1600 Amphitheatre Parkway Mountain View, CA 94043

**Product Name:** Wireless Streaming Device

**GOOGLE Brand Name:** 

Model No.: GJQ9T

**Model Difference:** N/A

**Report Number:** ER/2021/40065

FCC ID: A4RGJQ9T

July 7, 2021 Issue Date:

Date of EUT Received: February 19, 2021

Approved By

## We hereby certify that:

The above equipment was evaluate by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1091.

The results of this report relate only to the sample identified in this report.

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Revision History								
Report Number	Revision	Description						
ER/2021/40065	00	Original.	July 7, 2021	Elle Chang				

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# **DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)**

#### **Product Description** 1.1

Product Name:	Wireless Streaming Device
Brand Name:	GOOGLE
Model No.:	GJQ9T
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	Conducted: G1878051 Radiated: G1878050
Power Supply:	USB 5V

#### 1.2 **Antenna Information:**

#### 1.2.1 BT / WLAN 2.4GHz

Antenna	Supplier	Antenna	Freq.	Peak Antenna	
Type		Part No.	(MHz)	Gain (dBi)	
Dipole	N/A	N/A	2.4GHz	2.13	

#### 1.2.2 **WLAN 5GHz**

Antenna Type	Supplier	Antenna Part No.	Main / Aux	Operating Frequency (MHz)	Peak Antenna Gain (dBi)
Dipole				5150~5250 2.19	
	N/A	N/A	Main	5250~5350	2.19 1.97 0.13
	IN/A	IN/A	IVIAIII	5470~5725	0.13
				5725~5850	0.06

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## FCC MAXIMUM PERMISSIBLE EXPOSURE (MPE)

#### 2.1 **FCC Standard Applicable**

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1091 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density	Averaging Time				
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm <sup>2</sup> )	(minute)				
Limits for General Population/Uncontrolled Exposure								
0.3-1.34 614		1.63	*(100)	30				
1.34-30	1.34-30 824/f		*(180/f <sup>2</sup> )	30				
30-300	27.5	0.073	0.2	30				
300-1500 /		/	f/1500	30				
1500-100000	1500-100000 /		1.0	30				

f = frequency in MHz

Prediction of MPE limit at a given distance

 $S=PG/4\pi R^2$ 

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

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<sup>\* =</sup> Plane-wave equipment power density



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#### 2.2 **Power Density Calculation (Worst Case)**

### **FCC Standalone MPF**

1 CO Standarone Mr E									
Operation Mode	Evaluation Frequency (MHz)	Operatio n Distance (cm)	Max. output Power With Tolerance (dBm)		Power	Power Density (PD) (mW/cm²)	Limit (mW/cm²)	Pass / Fail	Power Density / Limit
BLE	2480.00	20	9	2.13	12.97	0.0026	1.000	Pass	0.003
WLAN 2.4G	2442.00	20	19.5	2.13	145.55	0.029	1.000	Pass	0.029
WLAN 5G	5180.00	20	18	2.19	104.47	0.021	1.000	Pass	0.021

~ End of Report ~

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