



Test Report No.: FM191012N030

RF EXPOSURE REPORT

Applicant	Amazon.com Services Inc.
Address	410 Terry Avenue North Seattle, United States, WA 98109

Manufacturer or Supplier	TCL Technoly Electronics(Huizhou) Co., Ltd.
Address	Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guang Dong Province, China, 516006.
Product	Echo Wall Clock ME
Brand Name	Amazon
Model	C8G55Z
Additional Model & Model Difference	KL6G3L, see section 1
Date of tests	Oct. 12, 2019 ~ Oct. 26, 2019

☒ FCC Part 2 (Section 2.1091)☒ KDB 447498 D01☒ IEEE C95.1**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**Tested by Tom Chen
Project Engineer / EMC DepartmentApproved by Glyn He
Assistant Manager/ EMC Department

Date: Nov. 13, 2019

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM191012N030	Original release	Nov. 13, 2019

1. CERTIFICATION

FCC ID:	UUU-8459
PRODUCT:	Echo Wall Clock ME
BRAND NAME:	Amazon
MODEL NO.:	C8G55Z
ADDITIONAL NO.:	KL6G3L
APPLICANT:	Amazon.com Services Inc.
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1

NOTES:

1. Additional model KL6G3L is identical with the test model C8G55Z except the appearance and model number for marketing purpose.

2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm ²)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

3. MPE CALCULATION FORMULA

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	2.89	PCB Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED AV POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
GFSK	2402-2480	4	+ -1	3	5
8DPSK	2402-2480	2	+ -1	1	3
BLE-GFSK	2402-2480	3	+ -1	2	4

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
GFSK	2402	3.58
8DPSK	2402	2.02
BLE-GFSK	2480	3.64

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2402-2480	5	2.89	20	0.001224	1.0

--- END ---