



Test Report No.: FM190909N038

## RF EXPOSURE REPORT

Applicant	TCL Technoly Electronics(Huizhou) Co., Ltd
Address	Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guang Dong Province, China 516006

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	Wireless Module
Brand Name	N/A
Model	TWM-CC8520
Additional Model & Model Difference	N/A
Date of tests	Sep. 09, 2019 ~ Sep. 30, 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 Department	Approved by Glyn He Supervisor/ EMC Department
	 Date: Oct. 28, 2019

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM190909N038	Original release	Oct. 28, 2019

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## 1. CERTIFICATION

<b>FCC ID:</b>	ZVA15
<b>PRODUCT:</b>	Wireless Module
<b>BRAND NAME:</b>	N/A
<b>MODEL NO.:</b>	TWM-CC8520
<b>ADDITIONAL NO.:</b>	N/A
<b>APPLICANT:</b>	TCL Technoly Electronics(Huizhou) Co., Ltd
<b>STANDARDS:</b>	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1

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## 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 <sup>2</sup> )	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

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

where

Pd = power density in mW/cm<sup>2</sup>

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 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**.



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## 5. ANTENNA GAIN

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

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	3.23	FPC 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)
FSK	2406-2474	10	+2	8	12

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
FSK	2406	10.68

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
2406-2474	12	3.62	20	0.0066333	1.0

--- END ---