

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	uetooth Module	
Brand Name	N/A	
Model	EXM1020	
Additional Model & Model Difference	N/A	
Date of tests	Aug. 24, 2017 ~ Aug. 31, 2017	

- **KDB 447498 D01**
- **⊠** IEEE C95.1

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Andy Zhu	Approved by Glyn He
Project Engineer / EMC Department	Supervisor/ EMC Department

Date: Sep. 07, 2017

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Test Report No.: FS170824N036

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS170824N036	Original release	Sep. 07, 2017

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1. CERTIFICATION

FCC ID:	ZVAOH000010		
PRODUCT:	Bluetooth Module		
BRAND NAME:	N/A		
MODEL NO.: EXM1020			
ADDITIONAL NO.:	D.: N/A		
TEST SAMPLE: Engineering Sample			
APPLICANT:	TCL Technoly Electronics(Huizhou) Co., Ltd.		
STANDARDS:	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)			POWER DENSITY (mW/cm²)	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/cm²

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	Gain (dBi)	Antenna Type	
Chain 0	1.1	PCB Antenna	

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

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	Mode	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
	BT-LE(GFSK)	2	+-2	0	4

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
BT-LE(GFSK)	2402	2.77

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
2402-2480	4	1.1	20	0.00064	1.0

--- END ---

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