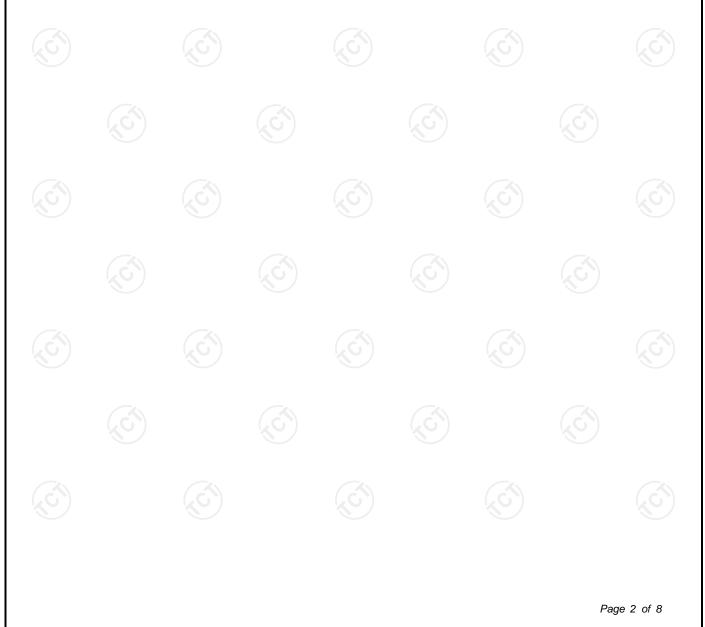
	と <b>辺</b>					
	TEST REPOR	Т				
FCC ID	2BN8F-CAMQ80-4G					
Test Report No::	TCT250328E007					
Date of issue:	Apr. 08, 2025					
Testing laboratory::	SHENZHEN TONGCE TESTING	) LAB				
Testing location/ address:	2101 & 2201, Zhenchang Factor Fuhai Subdistrict, Bao'an District 518103, People's Republic of Ch	, Shenzhen, Guangdong,				
Applicant's name::	NUMLAKE TECH LIMITED					
Address:	UNIT 1505, 15/F WORKINGPOF HAU FOOK STREET TSIM SHA					
Manufacturer's name:	NUMLAKE TECH LIMITED	$(\mathbf{G})$				
Address:		UNIT 1505, 15/F WORKINGPORT COMMERCIAL BUILDING 3 HAU FOOK STREET TSIM SHA TSUI HONG KONG, China				
Standard(s):	FCC CFR Title 47 Part 1.1307					
Product Name::	4G LTE Cellular Trail Camera					
Trade Mark:	N/A					
Model/Type reference :	Q80-4G, Q10-4G, Q20-4G, Q30 Q55-4G, Q80-4G pro, Q80-4G p	)-4G, Q60-4G, Q70-4G, Q90-4G, lus, Q85-4G				
Rating(s):	Rechargeable Li-ion Battery DC	3.7V				
Date of receipt of test item	Mar. 28, 2025					
Date (s) of performance of test:	Mar. 28, 2025 ~ Apr. 08, 2025					
Tested by (+signature) :	Aaron MO	Aaron Aburger				
Check by (+signature) :	Beryl ZHAO	Boyl 2 TCT				
Approved by (+signature):	Tomsin	Jomsnes st				
General disclaimer:						

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## **1. General Product Information**

#### 1.1. EUT description

Product Name:	4G LTE Cellular Trail Camera	
Model/Type reference:	Q80-4G	
Sample Number:	TCT250328E006-0101	
Operation Frequency:	LTE Band 2: TX: 1850 MHz ~ 1910 MHz RX: 1930 MHz ~ 1990 MHz LTE Band 4: TX: 1710 MHz ~ 1755 MHz RX: 2110 MHz ~ 2155 MHz LTE Band 5: TX: 824 MHz ~ 849 MHz RX: 869 MHz ~ 894 MHz LTE Band 12: TX: 699 MHz ~ 716 MHz RX: 729 MHz ~ 746 MHz LTE Band 13: TX: 777 MHz ~ 787 MHz RX: 746 MHz ~ 756 MHz	
Modulation Type:	QPSK/16QAM	<u></u>
Antenna Type:	External Antenna	
Antenna Gain:	2dBi	
Rating(s):	Rechargeable Li-ion Battery DC 3.7V	

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

# 1.2. Model(s) list

No.		Model No.		Teste	d with
1		Q80-4G			3
Other models	Q10-4G, Q2 Q55-4	0-4G, Q60- G pro, Q80-		, 8	
lote: Q80-4G is te CB layout, only d nodels.					

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### 2. General Information

#### 2.1. Test environment and mode

ltem	Normal condition					
Temperature		+25°C				
Voltage		DC 3.7V	(C)	)		
Humidity		56%				
Atmospheric Pressure:	1008 mbar					
Test Mode:						
Engineering mode:	Keep the EU	T in continuous transmi	tting by select cha	innel		

#### 2.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1			1	1
Matai				0

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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### 3. Facilities and Accreditations

#### 3.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC Registration No.: 10668A
- SHENZHEN TONGCE TESTING LAB
- CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development Canada for radio equipment testing.

#### 3.2. Location

#### SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China TEL: +86-755-27673339





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### 4. Test Results and Measurement Data

According to §1.1307(b), 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.

Remark: 1)

For LTE Band 2: The maximum output power for antenna is 23.94dBm (247.74mW) at 1880MHz, 2dBi antenna gain(with 1.58 numeric antenna gain.)
For LTE Band 4: The maximum output power for antenna is 24.69dBm (294.44mW) at 1732.5MHz, 2dBi antenna gain(with 1.58 numeric antenna gain.)
For LTE Band 5: The maximum output power for antenna is 25.10dBm (323.59mW) at 836.5MHz, 2dBi antenna gain(with 1.58 numeric antenna gain.)
For LTE Band 12: The maximum output power for antenna is 24.97dBm (314.05mW) at 707.5MHz, 2dBi antenna gain(with 1.58 numeric antenna gain.)
For LTE Band 13: The maximum output power for antenna is 24.38dBm (274.16mW) at 779.5MHz, 2dBi antenna gain(with 1.58 numeric antenna gain.)

2) For mobile or fixed location transmitters, no SAR consideration applied. The minimum separation generally be used is at least 20cm, even if the calculation indicate that the MPE distance would be lesser.

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#### **Calculation:**

Where

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Given

 $E = \frac{\sqrt{30*P*G}}{d} \quad \& \quad S = \frac{E^2}{3770}$  E = Field strength in Volts / meter P = Power in Watts G = Numeric antenna gaind = Distance in meters

S = Power density in milliwatts / square centimeter

Substituting the MPE safe distance using d=20cm into above equation. Yields: S=0.000199\*P\*G

Frequency range (MHz)	cy range Electric field strength Magnetic field strength Hz) (V/m) (A/m)		Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)				
	(A) Limits for Occupational/Controlled Exposures							
0.3-3.0	614	1.63	*(100)	6				
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6				
30-300	61.4	0.163	1.0	6				
300-1500	/	/	f/300	6				
1500-100,000	1	/	5	6				
	(B) Limits for General Population/Uncontrolled Exposure							
0.3-1.34	614	1.63	*(100)	30				
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30				
30-300	27.5	0.073	0.2	30				

1500-100,000 F=frequency in MHz

300-1500

\*=Plane-wave equivalent power density

1

1

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

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f/1500

1.0

30

30

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LTE:

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Hotline: 400-6611-140

Tel: 86-755-27673339

Mode	Power(mW)	numeric antenna gain	Power density (mW/cm²)	Limit (mW/cm²)	Result
LTE Band 2	247.74	1.58	0.077894	1	
LTE Band 4	294.44	1.58	0.092578	1	
LTE Band 5	323.59 🔍	1.58	0.101743	0.56	
LTE Band 12	314.05	1.58	0.098744	0.47	
LTE Band 13	274.16	1.58	0.086201	0.52	

\*\*\*\*\*END OF REPORT\*\*\*\*\*