

TEST REPORT

Applicant: Queclink Wireless Solutions Co., Ltd.
Address: No.30, Lane 500, Xinlong Road, Minhang District,
Shanghai, 201101
Equipment Type: Multiple Channels AI-Powered Connected Dash
Camera
Model Name: CV5000LNA
Brand Name: Queclink
FCC ID: YQD-CV5000LNA
Test Standard: 47 CFR Part 2.1091
KDB 447498 D04 v01
Sample Arrival Date: N/A
Test Date: N/A
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ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center



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Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions Content</u>
<u>Rev. 01</u>	<u>Feb. 04, 2026</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Address	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China

1.2 Test Location

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Location	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1352. The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 29671.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Queclink Wireless Solutions Co., Ltd.
Address	No.30, Lane 500,Xinlong Road, Minhang District,Shanghai,201101

2.2 Manufacturer Information

Manufacturer	Queclink Wireless Solutions Co., Ltd.
Address	No.30, Lane 500,Xinlong Road, Minhang District,Shanghai,201101

2.3 General Description for Equipment under Test (EUT)

EUT Name	Multiple Channels AI-Powered Connected Dash Camera
Model Name Under Test	CV5000LNA
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	3G WCDMA HSDPA/HSUPA Band 2/4/5 4G LTE FDD Band 2/4/5/12/13/14/66/71 Bluetooth (BLE:1M) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40) 5G WIFI 802.11a, 802.11n(HT20/40) GPS, Glonass, BDS, Galileo
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	WCDMA, LTE, Bluetooth, WIFI		
Frequency Range	WCDMA Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	WCDMA Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	LTE Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 12	TX: 699 ~ 716MHz	RX: 729 ~ 746MHz
	LTE Band 13	TX: 777 ~ 787MHz	RX: 746 ~ 756MHz
	LTE Band 14	TX: 788 ~ 798MHz	RX: 758 ~ 768MHz
	LTE Band 66	TX: 1710 ~ 1780MHz	RX: 2110 ~ 2200MHz
	LTE Band 71	TX: 663 ~ 698MHz	RX: 617 ~ 652MHz
	2.4G WIFI	2412 ~ 2462 MHz	
	5G WIFI	5150 ~ 5250 MHz	
		5250 ~ 5350 MHz	
		5470 ~ 5725 MHz	
5725 ~ 5850 MHz			
Bluetooth	2402 ~ 2480 MHz		
Antenna Type	WWAN	PIFA Antenna	
	Bluetooth	PIFA Antenna	
	WIFI	PIFA Antenna	
Exposure Category	General Population/Uncontrolled Exposure		
Product Type	Mobile Device		

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01

3.2 Limit Standards

No.	Identity	Document Title
1	47 CFR Part 2.1091	Radiofrequency radiation exposure evaluation: mobile devices

4 DEVICE CATEGORY AND LEVELS LIMITS

Mobile Devices:

CFR Title 47 §2.1091(b)

For purposes of this section, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons.

FCC KDB 447498 D04 General RF Exposure Guidance v01 Limit

Evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP_{20cm} in Formula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i. e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula (B.2).

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).
The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)										
		5	10	15	20	25	30	35	40	45	50
300		39	65	88	110	129	148	166	184	201	217
450		22	44	67	89	112	135	158	180	203	226
835		9	25	44	66	90	116	145	175	207	240
1900		3	12	26	44	66	92	122	157	195	236
2450		3	10	22	38	59	83	111	143	179	219
3600		2	8	18	32	49	71	96	125	158	195
5800		1	6	14	25	40	58	80	106	136	169

5 ASSESSMENT RESULT

5.1 Output Power

WCDMA			
Mode	Band 2	Band 4	Band 5
Conducted Power (dBm)	25	25	25
Antenna Gain (dBi)	0.69	0.93	0.07
EIRP (dBm)	23.25	25.05	22.92
Note: This report listed the worst case conducted power value, please refer to RF test report No.R1907A0408-M1V1 for more details.			

LTE								
Mode	Band 2	Band 4	Band 5	Band 12	Band 13	Band 14	Band 66	Band 71
Conducted Power (dBm)	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
Antenna Gain (dBi)	0.69	0.93	0.07	-1.83	-0.53	-0.53	0.93	-2.93
EIRP (dBm)	25.69	25.93	22.92	21.02	22.32	22.32	25.93	19.92
Note: This report listed the worst case conducted power value, please refer to RF test report No.R1907A0408-M1V1 for more details.								

Bluetooth	
Mode	BLE 1M
Conducted Power (dBm)	-1.81
Antenna Gain (dBi)	3.23
EIRP (dBm)	1.42
Note: This report listed the worst case conducted power value, please refer to RF test report No. BL-SZ2591432-601 for more details.	

WLAN					
Mode	2.4GWIFI Max	5GWIFI(U-NII-1) Max	5GWIFI(U-NII-2A) Max	5GWIFI(U-NII-2C) Max	5GWIFI(U-NII-3) Max
Conducted Power (dBm)	19.73	17.36	16.97	19.20	18.40
Antenna Gain (dBi)	2.15	1.82	2.83	3.18	2.27
EIRP (dBm)	21.88	19.18	19.80	22.38	20.67
Note: This report listed the worst case conducted power value, please refer to RF test report No. BL-SZ2591432-602 and BL-SZ2591432-603 for more details.					

5.2 Tune-up power

Mode		Conducted Power Range (dBm)	EIRP Range (dBm)	ERP Range (dBm)
WCDMA	Band 2	【24.00,26.00】	【24.69,26.69】	【22.54,24.54】
	Band 4	【24.00,26.00】	【24.93,26.93】	【22.78,24.78】
	Band 5	【24.00,26.00】	/	【21.92,23.92】
LTE	Band 2	【24.00,26.00】	【24.69,26.69】	【22.54,24.54】
	Band 4	【24.00,26.00】	【24.93,26.93】	【22.78,24.78】
	Band 5	【24.00,26.00】	/	【21.92,23.92】
	Band 12	【24.00,26.00】	/	【20.02,22.02】
	Band 13	【24.00,26.00】	/	【21.32,23.32】
	Band 14	【24.00,26.00】	/	【21.32,23.32】
	Band 66	【24.00,26.00】	【24.93,26.93】	【22.78,24.78】
	Band 71	【24.00,26.00】	【21.07,23.07】	【18.92,20.92】
Bluetooth		【-3.00,-1.00】	【0.23,2.23】	【-1.92,0.08】
2.4G WIFI		【19.00,21.00】	【21.15,23.15】	【19.00,21.00】
5G WIFI		【18.00,20.00】	【21.18,23.18】	【19.03,21.03】
Note1: ERP= EIRP -2.15dB.				
Note2: According KDB 447498 D04, used the greater of maximum conducted power and ERP to compare with the threshold value Pth.				

5.3 RF Exposure Evaluation Result

Evolution mode		Frequency (MHz)	Distance (cm)	Maximum power Tune up(dBm)	Maximum power (mW)	Threshold Power (mW)	P/Plimit	Verdict
WCDMA	Band 2	1850	20	26.00	398.11	3060.00	0.1301	Pass
	Band 4	1710	20	26.00	398.11	3060.00	0.1301	Pass
	Band 5	824	20	26.00	398.11	1680.96	0.2368	Pass
LTE	Band 2	1850	20	26.00	398.11	3060.00	0.1301	Pass
	Band 4	1710	20	26.00	398.11	3060.00	0.1301	Pass
	Band 5	824	20	26.00	398.11	1680.96	0.2368	Pass
	Band 12	699	20	26.00	398.11	1425.96	0.2792	Pass
	Band 13	777	20	26.00	398.11	1585.08	0.2512	Pass
	Band 14	788	20	26.00	398.11	1607.52	0.2477	Pass
	Band 66	1710	20	26.00	398.11	3060.00	0.1301	Pass
	Band 71	663	20	26.00	398.11	1352.52	0.2943	Pass
Bluetooth		2402	20	0.08	1.02	3060.00	0.0003	Pass
2.4G WIFI		2412	20	21.00	125.89	3060.00	0.0411	Pass
5G WIFI		5470	20	21.03	126.77	3060.00	0.0414	Pass

5.4 Collocated Power Calculation

Evolution mode	Frequency(MHz)	Power /Limit	$\Sigma(\text{Power} / \text{Limit})$	Verdict
LTE Band71	663MHz~698MHz	0.2943	0.3360	Pass
Bluetooth	2402MHz~2480MHz	0.0003		
5G WIFI	5470MHz~5725MHz	0.0414		

Note:

1. $\Sigma(\text{Power} / \text{Limit})$: This is a summation of [(power for each transmitter/ antenna included in the simultaneous transmission)/ (corresponding Power limit)], for WWAN+ Bluetooth +WLAN.
2. Both of the WWAN + Bluetooth + WLAN can transmit simultaneously, the formula of calculated the Power is

$$\text{CP1} / \text{LP1} + \text{CP2} / \text{LP2} + \dots \text{etc.} < 1$$

CP = Calculation power
LP = Limit of power
3. The worst-case situation is 0.3360, which is less than "1". This confirmed that the device comply with FCC KDB 447498 D04 Power limit.
4. More power list please refer to RF test report.

5.5 Conclusion

This EUT is deemed to comply with the reference level limits, therefore the basic restrictions are compliant with human exposure limits.

Statement

1. The Testing Center guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. For the report with Accreditation Symbol, the items marked with "☆" are not within the accredited scope.
3. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the test report stamp.
4. The test data and results are only valid for the tested samples provided by the customer.
5. This report shall not be partially reproduced without the written permission of the Testing Center.
6. Any objection shall be raised to the Testing Center within 30 days after receiving the report.

--END OF REPORT--