

TEST REPORT

Applicant: PRADCO Outdoor Brands
Address: 5724 Highway 280 East Birmingham, AL 35242
Equipment Type: Cellular Trail Camera
Model Name: EDGE 3
Brand Name: Moultrie
FCC ID: 2AJQ6MMC-14202
Test Standard: 47 CFR Part 2.1091
KDB 447498 D04 v01
Sample Arrival Date: N/A
Test Date: N/A
Date of Issue: May 28, 2025

ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center



Prepared by: Huang Xiaoqin **Reviewed by:** Cai Xueguo **Approved by:** Zhang Yanqin
(Laboratory Manager)

Huang Xiaoqin

Cai Xueguo

Zhang Yanqin

Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions Content</u>
<u>Rev. 01</u>	<u>May 28, 2025</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	1st to 2nd floors, Building 1, No. 222 Xuanlan Road, Xuanqiao Town, Pudong New District, Shanghai, China

1.2 Test Location

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

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	PRADCO Outdoor Brands
Address	5724 Highway 280 East Birmingham, AL 35242

2.2 Manufacturer Information

Manufacturer	SERCOMM CORPORATION
Address	8F, 3-1, YuanQu St., NanKang, Taipei 115, Taiwan

2.3 General Description for Equipment under Test (EUT)

EUT Name	Cellular Trail Camera
Model Name Under Test	EDGE 3
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	2.0
Software Version	2.00.18
Dimensions (Approx.)	L: 139mm* W: 108.53mm* H: 88.8mm
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	4G Network LTE FDD Band 2/4/5/12/13/66 Bluetooth (BLE) GPS
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	LTE, Bluetooth		
Frequency Range	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 ~ 716 MHz	RX: 729 ~ 746 MHz
	LTE Band 13	TX: 777 ~ 787 MHz	RX: 746 ~ 756 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2180 MHz
	Bluetooth	2402 ~ 2480 MHz	
Antenna Type	WWAN: External Antenna Bluetooth: PCB 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

Bluetooth		
Mode	BLE 1Mbps	BLE 2Mbps
Conducted Power (dBm)	6.26	6.26
Antenna Gain (dBi)	3.12	3.12
EIRP (dBm)	9.38	9.38
Note: This report listed the worst case conducted power value, please refer to RF test report No. BL-SH2540388-601 for more details.		

LTE						
Mode	Band 2	Band 4	Band 5	Band 12	Band 13	Band 66
Conducted Power (dBm)	23.00	23.43	23.05	22.85	22.87	23.22
Antenna Gain (dBi)	3.40	2.80	0.60	-1.00	-1.00	2.80
ERP/EIRP (dBm)	26.40	26.23	21.50	19.70	19.72	26.02
Note: This report listed the worst case conducted power value, please refer to RF test report No. BL-SH2540388-501 for more details.						

5.2 Tune-up power

Mode		Conducted Power Range (dBm)	EIRP Range (dBm)	ERP Range (dBm)
LTE	Band 2	【21.00,25.00】	【24.40,28.40】	【22.25,26.25】
	Band 4	【21.00,25.00】	【23.80,27.80】	【21.65,25.65】
	Band 5	【21.00,25.00】	/	【19.45,23.45】
	Band 12	【21.00,25.00】	/	【17.85,21.85】
	Band 13	【21.00,25.00】	/	【17.85,21.85】
	Band 66	【21.00,25.00】	【23.80,27.80】	【21.65,25.65】
Bluetooth		【5.50,7.50】	【8.62,10.62】	【6.47,8.47】
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		f(MHz)	Distance (cm)	Maximum power (dBm)	Maximum power (mW)	Threshold Power (mW)	P/Plimit	Verdict
LTE	Band 2	1850	20	26.25	421.70	3060.00	0.1378	Pass
	Band 4	1710	20	25.65	367.28	3060.00	0.1200	Pass
	Band 5	824	20	25.00	316.23	1680.96	0.1881	Pass
	Band 12	699	20	25.00	316.23	1425.96	0.2218	Pass
	Band 13	777	20	25.00	316.23	1585.08	0.1995	Pass
	Band 66	1710	20	25.65	367.28	3060.00	0.1200	Pass
Bluetooth		2402	20	8.47	7.03	3060.00	0.0023	Pass

5.4 Collocated Power Calculation

Evolution mode	Frequency(MHz)	Power /Limit	$\Sigma(\text{Power} / \text{Limit})$ of WWAN + Bluetooth	Verdict
Band 12	699MHz ~ 716MHz	0.2218	0.2241	Pass
Bluetooth	2402 MHz ~ 2480 MHz	0.0023		

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.
2. Both of the WWAN+ Bluetooth can transmit simultaneously, the formula of calculated the Power is $CP1 / LP1 + CP2 / LP2 + \dots \text{etc.} < 1$
 CP = Calculation power
 LP = Limit of power
3. The worst-case situation is 0.2241, which is less than "1". This confirmed that the device comply with FCC KDB 447498 D04 Power limit.
4. The DUT work frequency range used is 824 MHz ~ 849 MHz, 1850 MHz ~ 1910 MHz, 1710 MHz ~ 1780 MHz, 699 MHz ~ 716 MHz, 777 ~ 787 MHz, 2402MHz ~ 2480 MHz the result close to the limit by the above formula, so we select worst case power to calculate the exclusion power threshold.
5. 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.
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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--