

TEST REPORT

Applicant: ASIOT Co., Ltd.
Address: Toranomon Hills Business Tower 15F, 1-17-1,
Toranomon, Minato-ku, Tokyo
Equipment Type: VeriReader
Model Name: FALCON 201
Brand Name: /
FCC ID: 2BVV8-FALCON201
Test Standard: 47 CFR Part 2.1091
KDB 447498 D04 v01
Sample Arrival Date: Mar. 13, 2026
Test Date: Jul. 28, 2026
Date of Issue: Aug. 20, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.



Tested by: Xiong Lining

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(Technical Director)

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Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions Content</u>
<u>Rev. 01</u>	<u>Aug. 20, 2026</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	601, Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen, Guangdong
	☒ 1/F., Building B, Ganghongji High-Tech Intelligent Industrial Park, No.1008, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	ASIOT Co., Ltd.
Address	Toranomon Hills Business Tower 15F, 1-17-1, Toranomon, Minato-ku, Tokyo

2.2 Manufacturer Information

Manufacturer	ASIOT Co., Ltd.
Address	Toranomon Hills Business Tower 15F, 1-17-1, Toranomon, Minato-ku, Tokyo

2.3 General Description for Equipment under Test (EUT)

EUT Name	VeriReader
Model Name Under Test	FALCON 201
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	4G Network FDD LTE-M1 Band 2/4/5/12/13/18/19/26/66 FDD NB-IoT Band 2/4/5/12/13/18/19/26/66/71
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	WWAN		
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 ~ 824 MHz	Rx: 729 ~ 746 MHz
	LTE Band 13	Tx: 777 ~ 849 MHz	Rx: 746 ~ 756 MHz
	LTE Band 18	Tx: 815 ~ 824 MHz	Rx: 860 ~ 869 MHz
		Tx: 824 ~ 830 MHz	Rx: 869 ~ 875 MHz
	LTE Band19	Tx: 830 ~ 845 MHz	Rx: 875 ~ 890 MHz
	LTE Band 26	Tx: 814 ~ 824 MHz	Rx: 859 ~ 869 MHz
		Tx: 824 ~ 849 MHz	Rx: 869 ~ 894 MHz
	LTE Band 66	Tx: 1710 ~ 1780 MHz	Rx: 2110 ~ 2180 MHz
	LTE Band 71	Tx: 663 ~ 698 MHz	Rx: 617 ~ 652 MHz
Antenna Type	WWAN	Internal 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

Mode	LTE CAT.M				
	CAT.M Band 18(part22)	CAT.M Band 18(part90)	CAT.M Band 19	CAT.M Band 26(part22)	CAT.M Band 26(part90)
Conducted Power (dBm)	21.23	21.40	21.30	20.87	20.99
Antenna Gain (dBi)	0.29	0.29	0.68	0.68	0.29
ERP (dBm)	19.37	19.54	19.83	19.40	19.13
Note: This report listed the worst case conducted power value, please refer to Ti-CC26030157-501 report for more details.					

Mode	LTE NB-IoT				
	NB-IoT Band 18(part22)	NB-IoT Band 18(part90)	NB-IoT Band 19	NB-IoT Band 26(part22)	NB-IoT Band 26(part90)
Conducted Power (dBm)	19.66	19.47	19.65	19.70	20.08
Antenna Gain (dBi)	0.29	0.29	0.68	0.29	0.29
ERP (dBm)	19.95	19.76	20.33	19.99	20.37
Note: This report listed the worst case conducted power value, please refer to Ti-CC26030157-501 report for more details.					

Mode	LTE CAT.M					
	Band 2	Band 4	Band 5	Band 12	Band 13	Band 66
Conducted Power (dBm)	20.49	20.95	21.68	21.79	21.77	20.39
Antenna Gain (dBi)	0.62	0.52	0.68	0.09	0.18	0.52
EIRP/ERP (dBm)	21.11	21.47	20.21	19.73	19.80	20.91
Note: This report listed the worst case conducted power value, please refer to Ti-CC26030157-501 report for more details.						

Mode	LTE NB-IoT						
	Band 2	Band 4	Band 5	Band 12	Band 13	Band 66	Band 71
Conducted Power (dBm)	20.21	20.13	21.49	21.57	21.40	19.64	22.38
Antenna Gain (dBi)	0.62	0.52	0.68	0.09	0.18	0.52	0.04
EIRP/ERP (dBm)	20.83	20.65	20.02	19.51	19.43	20.16	20.27
Note: This report listed the worst case conducted power value, please refer to Ti-CC26030157-501 report for more details.							

5.2 Tune-up power

Mode	Conducted Power Range (dBm)	EIRP Range (dBm)	ERP Range (dBm)
CAT.M Band 2	[20.00,22.00]	[20.62,22.62]	[18.47,20.47]
CAT.M Band 4	[20.00,22.00]	[20.52,22.52]	[18.37,20.37]
CAT.M Band 5	[21.00,23.00]	/	[19.53,21.53]
CAT.M Band 12	[21.00,23.00]	/	[18.94,20.94]
CAT.M Band 13	[21.00,23.00]	/	[19.03,21.03]
CAT.M Band 18(part22)	[20.00,22.00]	/	[18.14,20.14]
CAT.M Band 18(part90)	[20.00,22.00]	/	[18.14,20.14]
CAT.M Band 19	[20.00,22.00]	/	[18.53,20.53]
CAT.M Band 26(part22)	[19.00,21.00]	/	[17.53,19.53]
CAT.M Band 26(part90)	[19.00,21.00]	/	[17.14,19.14]
CAT.M Band 66	[20.00,22.00]	[20.52,22.52]	[18.37,20.37]
NB-IoT Band 2	[20.00,22.00]	[20.62,22.62]	[18.47,20.47]
NB-IoT Band 4	[20.00,22.00]	[20.52,22.52]	[18.37,20.37]
NB-IoT Band 5	[21.00,23.00]	/	[19.53,21.53]
NB-IoT Band 12	[21.00,23.00]	/	[18.94,20.94]
NB-IoT Band 13	[21.00,23.00]	/	[19.03,21.03]
NB-IoT Band 18(part22)	[20.00,22.00]	/	[18.14,20.14]
NB-IoT Band 18(part90)	[20.00,22.00]	/	[18.14,20.14]
NB-IoT Band 19	[20.00,22.00]	/	[18.53,20.53]
NB-IoT Band 26(part22)	[20.00,22.00]	/	[18.53,20.53]
NB-IoT Band 26(part90)	[20.00,22.00]	/	[18.14,20.14]
NB-IoT Band 66	[19.00,21.00]	[19.52,21.52]	[17.37,19.37]
NB-IoT Band 71	[22.00,24.00]	/	[19.89,21.89]

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	Maximum Power (dBm)	Maximum Power (mw)	Distance (mm)	Threshold Power (mW)	Verdict
CAT.M Band 2	22.00	158.49	200	3060.00	Pass
CAT.M Band 4	22.00	158.49	200	3060.00	Pass
CAT.M Band 5	23.00	199.53	200	1731.96	Pass
CAT.M Band 12	23.00	199.53	200	1460.64	Pass
CAT.M Band 13	23.00	199.53	200	1605.48	Pass
CAT.M Band 18(part22)	22.00	158.49	200	1680.96	Pass
CAT.M Band 18(part90)	22.00	158.49	200	1693.20	Pass
CAT.M Band 19	22.00	158.49	200	1723.80	Pass
CAT.M Band 26(part22)	21.00	125.89	200	1680.96	Pass
CAT.M Band 26(part90)	21.00	125.89	200	1731.96	Pass
CAT.M Band 66	22.00	158.49	200	3060.00	Pass
NB-IoT Band 2	22.00	158.49	200	3060.00	Pass
NB-IoT Band 4	22.00	158.49	200	3060.00	Pass
NB-IoT Band 5	23.00	199.53	200	1731.96	Pass
NB-IoT Band 12	23.00	199.53	200	1460.64	Pass
NB-IoT Band 13	23.00	199.53	200	1605.48	Pass
NB-IoT Band 18(part22)	22.00	158.49	200	1680.96	Pass
NB-IoT Band 18(part90)	22.00	158.49	200	1693.20	Pass
NB-IoT Band 19	22.00	158.49	200	1723.80	Pass
NB-IoT Band 26(part22)	22.00	158.49	200	1680.96	Pass
NB-IoT Band 26(part90)	22.00	158.49	200	1693.20	Pass
NB-IoT Band 66	21.00	125.89	200	3060.00	Pass
NB-IoT Band 71	24.00	251.19	200	1423.92	Pass

5.4 Conclusion

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

Statement

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--END OF REPORT--