

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR231200401912

Page: 1 of 16

# TEST REPORT

Application No.: SZCR2312004019AT

Applicant: KEYENCE CORPORATION

Address of Applicant: 1-3-14, Higashinakajima, Higashiyodogawa-ku, Osaka, 533-8555 Japan

Manufacturer: KEYENCE CORPORATION

Address of Manufacturer: 1-3-14, Higashinakajima, Higashiyodogawa-ku, Osaka, 533-8555 Japan

Factory: KEYENCE CORPORATION

Address of Factory: 1-3-14, Higashinakajima, Higashiyodogawa-ku, Osaka, 533-8555 Japan

**Equipment Under Test (EUT):** 

EUT Name: Handheld Terminal Model No.: BT-A600MGA
Trade Mark: KEYENCE
FCC ID: RF41761A

Standard(s): FCC Part 96.47

FCC KDB 940660 D01 Part 96 CBRS Eqpt v03

WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification

WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines

**Date of Receipt:** 2024-12-08

**Date of Test:** 2024-08-21 to 2024-08-22

**Date of Issue:** 2024-08-23

Test Result: Pass\*

Keny Xu EMC Laboratory Manager

Keny. xu



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record					
Version	Chapter	Date	Modifier	Remark		
01		2024-08-23		Original		

Authorized for issue by:		
	Calvin Weng	
	Calvin Weng/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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#### 2 **Test Summary**

Item	Standard	Test Case ID	Result
End User Device additional requirement	96.47	/	Pass

The UUT is an End User Device. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

### Test standards:

FCC Part 96.47

FCC KDB 940660 D01 Part 96 CBRS Eqpt v03

WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification

WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines



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## **General Information**

### Details of E.U.T.

Power supply:	DC3.6V by li-ion battery(6270mAh)		
	M/N:DX-BC6		
	Battery manufacturer:Getac Technology(Kunshan)Co.,Ltd.		
	Recharged by DC5V/2A power adapter		
Sample Type:	Portable		
CBSD Class:	End User device		
Hardware Version:	V1.03		
Software Version:	T48		
Transmitter Frequency Band:	LTE: Band 42,43,48		
	5G NR: n48,n77,n78		
Transmitter Frequency Range:	3550~3700MHz		
Antenna Gain:	1.62dBi (Provided by manufacturer)		
Antenna Type:	FPC Antenna		

# 4.2 Measurement Uncertainty

No.	Item	Measurement Uncertainty		
1	Radio Frequency	± 7.25 x 10 <sup>-8</sup>		
2	RF conducted power	± 0.75dB		
3	Temperature test	± 1°C		
4	Humidity test	± 3%		
5	Supply voltages	± 1.5%		
6	Time	± 3%		



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## 4.3 Description of Support Units

Description	Manufacturer	Manufacturer Model No.	
DP	Lanner Electronics Inc.	LICA-1513A	/
EPC	Lanner Electronics Inc.	LICA-1513A	LR202002004052
Router TP-LINK		TL-R860+	1175379002425
LTE Base Station	Baicells	mBS31010 (FCC ID: 2AG32MBS31010)	120300010220B6B0002
5G NR Base station	Baicells	BSC7048A243 (FCC ID: 2AG32BSC7048A243)	1202000577233VB0002



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### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

### 4.5 Test Facility

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

### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

### VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

### FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

### Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.



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### **Equipment List** 5

Test Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Laptop (With SAS Test hamess)	Lenovo	T14	/	/	/
Spectrum Analyzer	Keysight	N9020B	SEM004-24	2024-03-20	2025-03-19
Shield Room	SAEMC	MSR433	SEM001-11	2024-03-13	2027-03-12
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Splitter	MACOM	2090-6214-00	N/A	N/A	N/A
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-27	2025-07-26



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#### **Test Method and Environment** 6

## **End User Device Conformance and Performance**

FCC Part 96.47 Test Requirement:

WINNF-18-IN-00178 CBRS End User Device as UUT Test Guidelines Test Method:

### 6.2 Test Environment

**Environmental Conditions:** 25deg. C, 55%RH

### 6.3 Test Requirement

FCC Part 96.47

- a). End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.
- b). An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.

### 6.4 Test Procedure

For LTE:

Following procedure can be done by applying WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification, use the certified Base station CBSD (FCC ID: 2AG32MBS31010) as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

- 1. Setup with frequency 3560-3580MHz and power level 18dBm/MHz;
- Enable CBSD service ;
- 3. Check EUD Tx Frequency and power;
- 4. Disable CBSD service;
- Check EUD stops transmission within 10seconds;
- Setup with frequency 3575-3595MHz and power level 5dBm/MHz;
- 7. Enable CBSD service;
- 8. Check EUD Tx Frequency and power;
- 9. Disable CBSD service;
- 10. Check EUD stops transmission within 10seconds.



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### For NR:

Following procedure can be done by applying WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification, use the certified Base station CBSD (FCC ID: 2AG32BSC7048A243) as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

- 1. Setup with frequency 3590-3610MHz and power level 18dBm/MHz;
- 2. Enable CBSD service;
- 3. Check EUD Tx Frequency and power;
- 4. Disable CBSD service;
- 5. Check EUD stops transmission within 10seconds;
- 6. Setup with frequency 3620-3640MHz and power level 5dBm/MHz;
- 7. Enable CBSD service;
- 8. Check EUD Tx Frequency and power;
- 9. Disable CBSD service:
- 10. Check EUD stops transmission within 10seconds.



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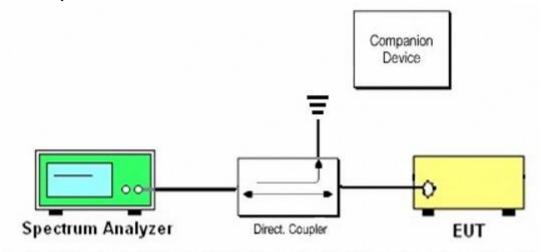


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## 6.5 Test Setup



End User Device as UUT, the companion device is certified CBSD



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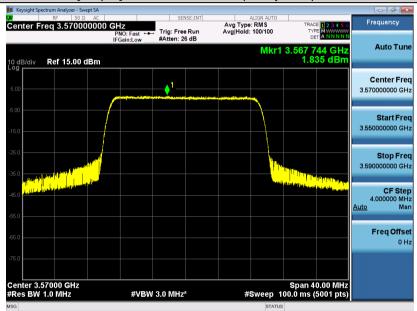
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### 6.6 Test Result

## LTE

[Step 1] Setup with frequency 3560-3580MHz and power level 18dBm/MHz

[Step 3] Check EUD Tx Frequency and power



EIRP PSD=1.835+1.62+5.0=8.455dBm/MHz, loss of Cable and Splitter is 5.0dB, Antenna gain is 1.62dBi

[Step 5] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.





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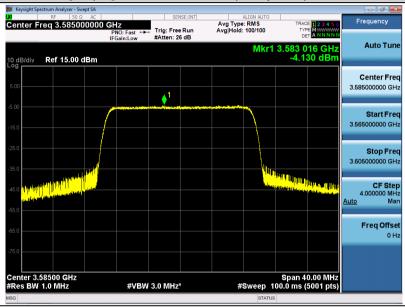
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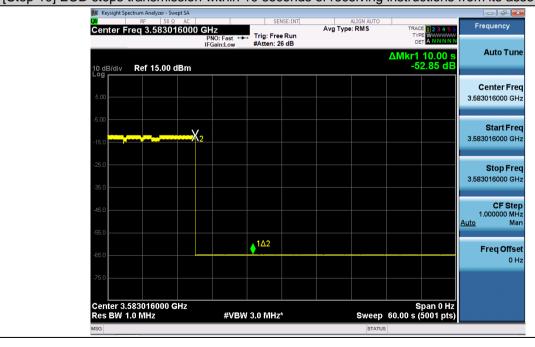
## [Step 6] Setup with frequency 3575-3595MHz and power level 5dBm/MHz

[Step 8] Check EUD Tx Frequency and power



EIRP PSD=-4.13+1.62+5.0=2.49dBm/MHz, loss of Cable and Splitter is 5.0dB, Antenna gain is 1.62dBi

[Step 10] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.





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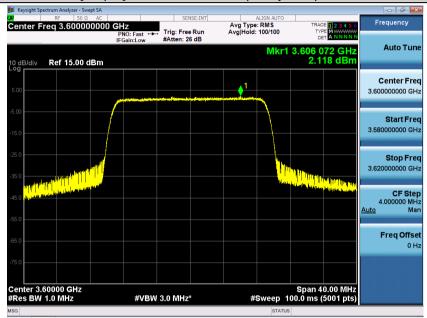
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### NR

[Step 1] Setup with frequency 3590-3610MHz and power level 18dBm/MHz

[Step 3] Check EUD Tx Frequency and power



EIRP PSD=2.18+1.62+5.0=8.8dBm/MHz, loss of Cable and Splitter is 5.0dB, Antenna gain is 1.62dBi

[Step 5] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.





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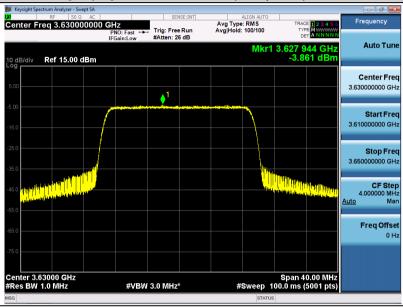
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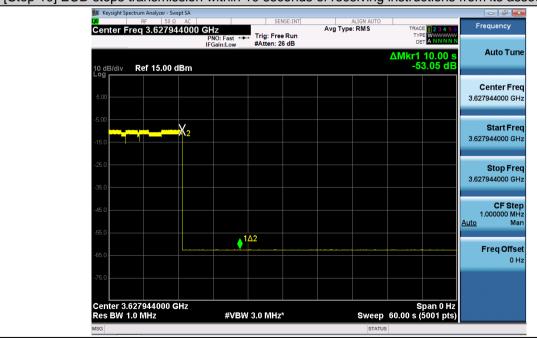
## [Step 6] Setup with frequency 3620-3640MHz and power level 5dBm/MHz

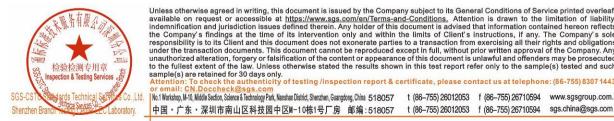
[Step 8] Check EUD Tx Frequency and power



EIRP PSD=-3.861+1.62+5.0=2.759dBm/MHz, loss of Cable and Splitter is 5.0dB, Antenna gain is 1.62dBi

[Step 10] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.





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#### 7 **Photographs**

## 7.1 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.

- End of the Report -



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