FCC Test Report

APPLICANT : BTI Wireless

EQUIPMENT: 5G NR Femtocell

BRAND NAME : (BT)

MODEL NAME : nCELL-F2240 FCC ID : WBKF2240

STANDARD : 47 CFR Part 15 Subpart B Class A

CLASSIFICATION: Certification

TEST DATE(S) : Jun. 26, 2023 ~ Jun. 27, 2023

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

JasonJia

Approved by: Jason Jia





Report No.: FC361223

Sporton International Inc. (Kunshan)

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

Sporton International Inc. (Kunshan)

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC361223	Rev. 01	Initial issue of report	Aug. 09, 2023

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SUMMARY OF TEST RESULT

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Report Section	FCC Rule	Description	Limit	Result	Remark
					Under limit
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	31.92 dB at
					0.152 MHz
					Under limit
2.0	15.109 Radiated Emission < 15.109 limits	DACC	4.86 dB at		
3.2		Radiated Emission	< 15.109 limits	PASS	499.97 MHz
					for Quasi-Peak

Conformity Assessment Condition:

The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. Please refer to each test results in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

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1. General Description

1.1. Applicant

BTI Wireless

11205 Knott Avenue - Suite A, Cypress, CA 90630 United States

1.2. Manufacturer

BTI Wireless

11205 Knott Avenue - Suite A, Cypress, CA 90630 United States

1.3. Product Feature of Equipment Under Test

	Product Feature
Equipment	5G NR Femtocell
Brand Name	(BT) wheless
Model Name	nCELL-F2240
FCC ID	WBKF2240
EUT supports Radios application	5G NR/GPS
HW Version	2
SW Version	5GNR_fa.tdd.fr1.2.3.0_475
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4. Product Specification of Equipment Under Test

Standards-related Product Specification			
Tx Frequency 5G NR n48 : 3550 MHz ~ 3700 MHz			
Rx Frequency	Frequency 5G NR n48 : 3550 MHz ~ 3700 MHz		
Antenna Type	WWAN : Integrated Antenna GPS: External Antenna		
Type of Modulation	5G NR: CP-OFDM (64QAM / 256QAM) GPS: BPSK		

1.5. Modification of EUT

No modifications are made to the EUT during all test items.

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1.6. Test Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)			
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL: +86-512-57900158			
T (0'/- N-	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.	
Test Site No.	CO01-KS 10CH01-KS 03CH08-KS	CN1257	314309	

1.7. Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH08-KS	AUDIX	E3	6.2009-8-24
2.	10CH01-KS	AUDIX	E3	e3 210616

1.8. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart B Class A
- ANSI C63.4-2014

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

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2. Test Configuration of Equipment Under Test

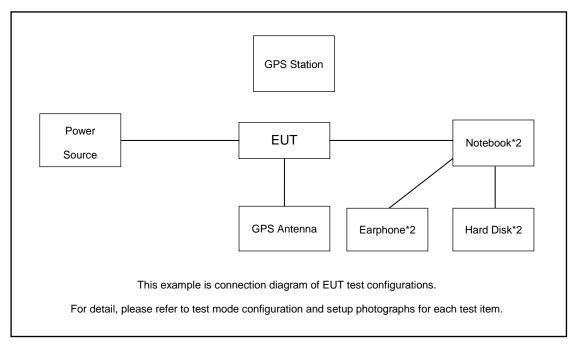
2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest frequency or to 40 GHz, whichever is lower).

Test Items	Function Type			
AC Conducted Emission	Mode 1: 5G N48 Rx + LAN Link + Gpon link + 10G Lan Link + GPS Rx + Charging from Adapter			
Radiated Emissions	Mode 1: 5G N48 Rx + LAN Link + Gpon link + 10G Lan Link + GPS Rx + Charging from Adapter			
Remark: The DEB(type-c) port is only used for engineering debugging.				

2.2. Connection Diagram of Test System



The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application

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2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Vector Signal Generator	R&S	SMBV100A	258305	N/A	N/A
2.	Notebook	Lenovo	V130-15IKB005	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
3.	Notebook	Lenovo	V130-14IKB004	N/A	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
4.	Hard Disk	WD	C6B	N/A	N/A	N/A
5.	Hard Disk	Lenovo	F310	DoC	Shielded, 1.2m	N/A
6.	Earphone*3	Lenovo	P121	N/A	N/A	Unshielded,1.2m
7.	GPS Antenna	N/A	N/A	N/A	N/A	N/A
8.	RJ45 cable	N/A	N/A	N/A	N/A	N/A
9.	Optical fiber	N/A	N/A	N/A	N/A	N/A

2.4. EUT Operation Test Setup

The EUT was in 5G NR Rx mode during the testing. The EUT is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the following programs installed in the EUT were programmed during the test.

- 1. LAN Link with notebook via RJ45 cable.
- 2. Gpon Link with notebook via optical fiber.

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3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

<Class A Limit>

Frequency of emission	Conducted limit (dBuV)		
(MHz)	Quasi-peak	Average	
0.15-0.5	79	66	
0.5-30	73	60	

3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

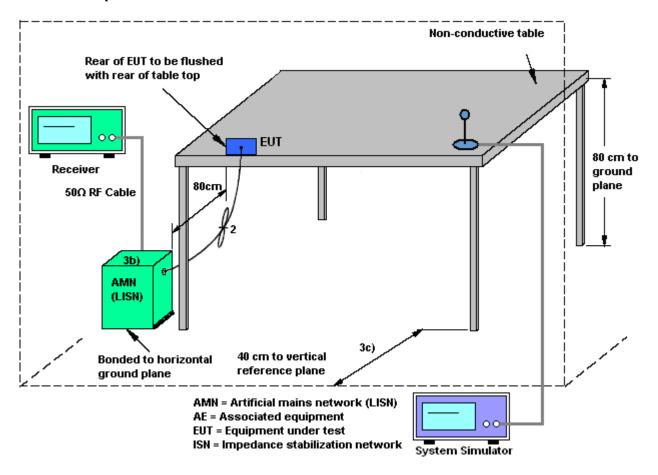
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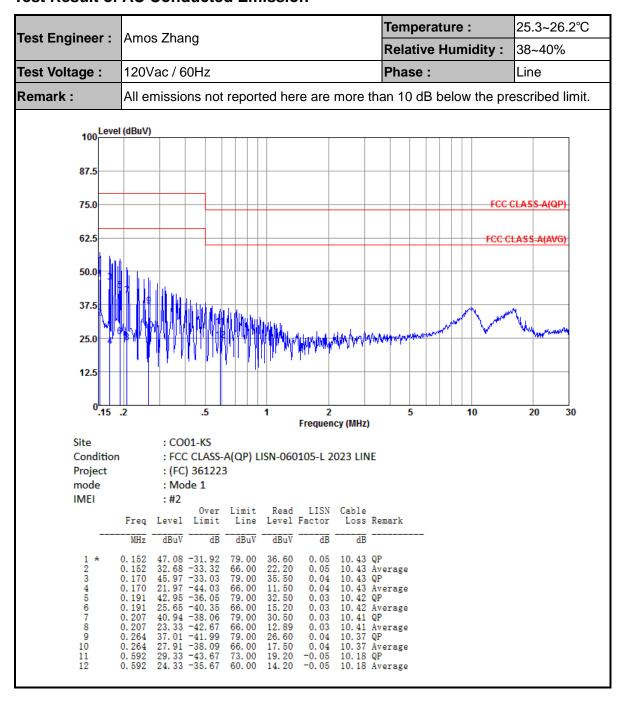
3.1.4 Test Setup



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3.1.5 Test Result of AC Conducted Emission



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Temperature: 25.3~26.2°C Test Engineer: Amos Zhang **Relative Humidity:** 38~40% Test Voltage: 120Vac / 60Hz Phase: Neutral Remark: All emissions not reported here are more than 10 dB below the prescribed limit. 100 Level (dBuV) 87.5 75.0 62.5 FCC CLASS-A(AVG) 50.0 37. 12.5 30 Frequency (MHz) : CO01-KS Site Condition : FCC CLASS-A(QP) LISN-060105-N 2023 NEUTRAL Project : (FC) 361223 mode : Mode 1 IMEI : #2 Over Limit Read LISN Cable Freq Level Limit Line Level Factor Loss Remark MHz dBuV dB dBuV dBuV 46. 37 -32. 63 29. 67 -36. 33 45. 97 -33. 03 22. 67 -43. 33 43. 97 -35. 03 24. 67 -41. 33 39. 92 -39. 08 23. 72 -42. 28 35. 53 -43. 47 24. 63 -41. 37 28. 33 -44. 67 19. 73 -40. 27 10.43 QP 10.43 Average 79.00 66.00 79.00 0. 04 0. 04 0. 04 0.155 0.155 35.90 19.20 35. 50 12. 20 33. 50 66. 00 79. 00 0. 04 0. 05 0. 05 0. 02 0. 163 0. 178 10.43 Average 10.42 QP 14. 20 29. 50 13. 30 25. 20 14. 30 66. 00 79. 00 66. 00 0.178 0.226 10. 42 Av 10. 40 QP

-0.03 -0.03

-0.07

-0.07

10, 36 QP

10.20 QP

10.36 Average

10.20 Average

Note:

1. Level(dB μ V) = Read Level(dB μ V) + LISN Factor(dB) + Cable Loss(dB)

79.00 66.00

73.00 60.00

18. 20

9.60

2. Over Limit(dB) = Level(dB μ V) – Limit Line(dB μ V)

0.282

0. 282

0.541

0.541

10

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3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

<Class A Limit> Below 1G

Frequency (MHz)	Field Strength Quasi-peak (microvolts/meter)	Measurement Distance (meters)
30 – 88	90	10
88 – 216	150	10
216 - 960	210	10
Above 960	300	10

<Class A Limit> Above 1G

Frequency	Average limit	Peak limit	Measurement Distance (meters)
(GHz)	(dBuV/m)	(dBuV/m)	
1 - F _M	60	80	3

Note:

- 1. The highest measurement frequency, FM, in GHz, shall be determined as per next table" Highest measurement frequency".
- The above 1G measurement distance using an inverse linear distance extrapolation factor (20 dB/decade).

3.2.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

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3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 10 meters (30M~1G) and 3 meters (1G~ 40G) from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
- 8. Emission level (dB μ V/m) = 20 log Emission level (μ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- 10. Exploratory radiated emissions testing of handheld and/or body-worn devices shall include rotation of the EUT through three orthogonal axes (X/Y/Z Plane) to determine the orientation (attitude) that maximizes the emissions.

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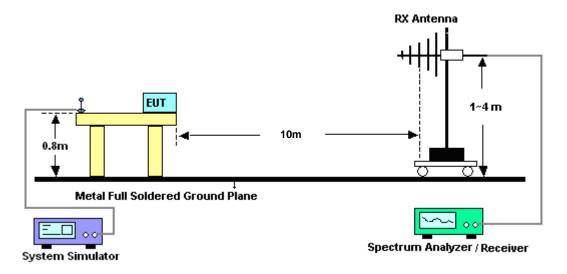
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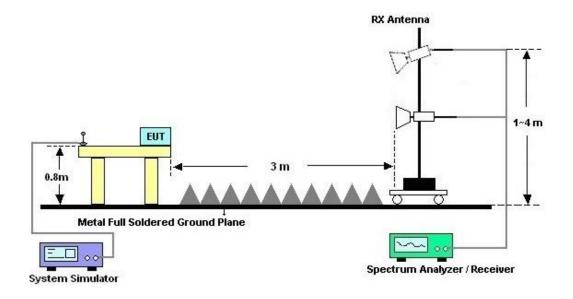
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



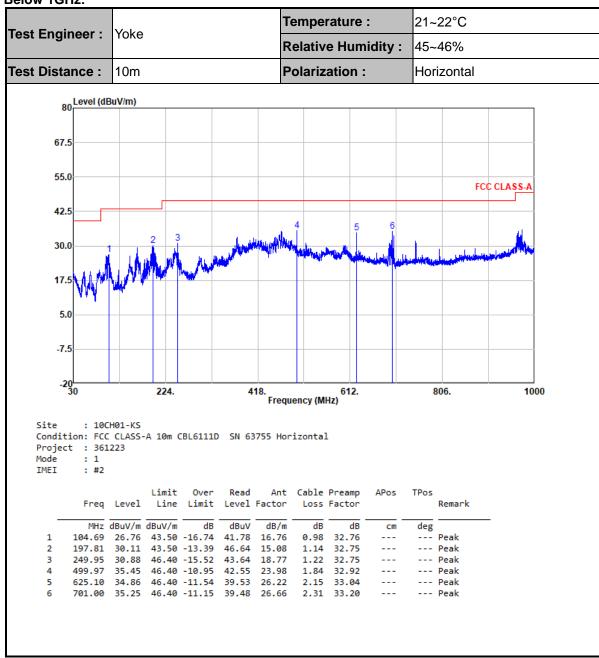
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3.2.5. Test Result of Radiated Emission

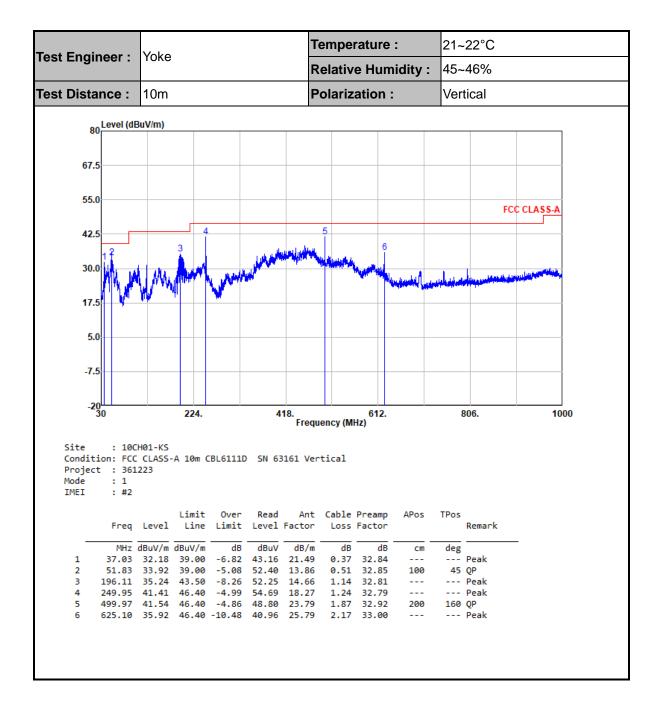
Below 1GHz:



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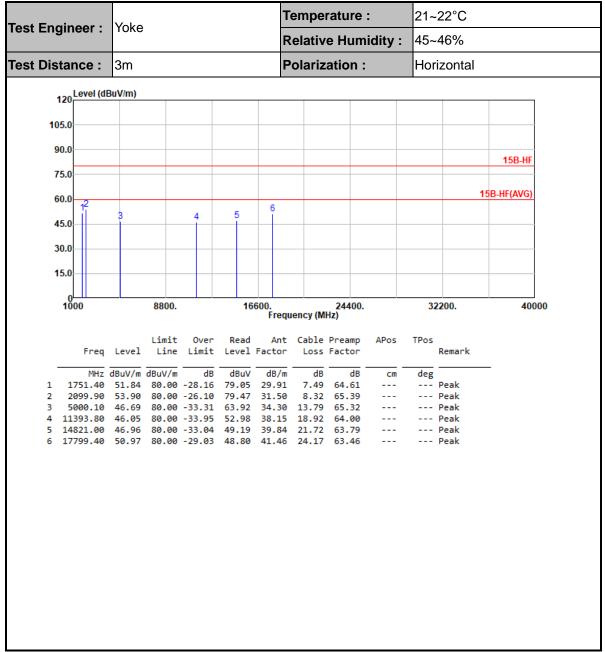
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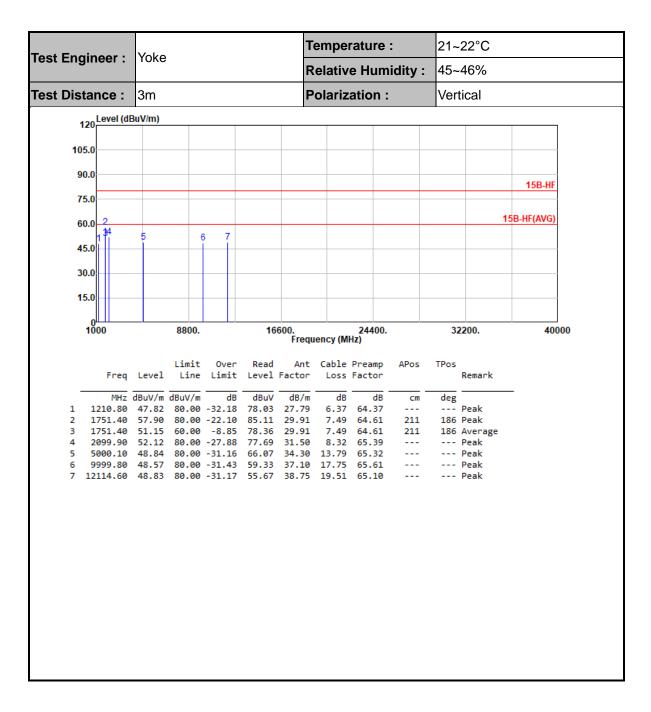
Above 1GHz:



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Note:

- 1. Level($dB\mu V/m$) = Read Level($dB\mu V$) + Antenna Factor(dB/m) + Cable Loss(dB) Preamp Factor(dB)
- 2. Over Limit(dB) = Level(dB μ V/m) Limit Line(dB μ V/m)

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4. List of Measuring Equipment

l(Manuelantona	MadalNa	Ossisl Na	01	Calibration	Total Date	Dece Bate	D
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Date	Test Date	Due Date	Remark
EMI test receiver	R&S	ESR7	102630	9KHz~7GHz	Oct. 11, 2022	Jun. 27, 2023	Oct. 10, 2023	Radiation (10CH01-KS)
EMI test receive	R&S	ESR7	102631	9KHz~7GHz	Oct. 11, 2022	Jun. 27, 2023	Oct. 10, 2023	Radiation (10CH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY60242126	10Hz-44G,MAX 30dB	Oct. 13, 2022	Jun. 27, 2023	Oct. 12, 2023	Radiation (10CH01-KS)
Bilog Antenna	TESEQ	CBL6111D	63161	30MHz~1GHz	Nov. 02, 2022	Jun. 27, 2023	Nov. 01, 2023	Radiation (10CH01-KS)
Bilog Antenna	TESEQ	CBL6111D	63755	30MHz~1GHz	Nov. 02, 2022	Jun. 27, 2023	Nov. 01, 2023	Radiation (10CH01-KS)
Amplifier	SONOMA	310N	422544	9KHz ~1GHZ	Oct. 12, 2022	Jun. 27, 2023	Oct. 11, 2023	Radiation (10CH01-KS)
Amplifier	SONOMA	310N	422545	9KHz ~1GHZ	Oct. 12, 2022	Jun. 27, 2023	Oct. 11, 2023	Radiation (10CH01-KS)
AC Power Source	Chroma	61601	61601000247 3	N/A	NCR	Jun. 27, 2023	NCR	Radiation (10CH01-KS)
Bore-site Antenna Mast	EM	MBD-400-1	NA	1 m~4 m	NCR	Jun. 27, 2023	NCR	Radiation (10CH01-KS)
Antenna Mast	EM	MBD-400-1	NA	1 m~4 m	NCR	Jun. 27, 2023	NCR	Radiation (10CH01-KS)
Controller	EM	3000-1	NA	NA	NCR	Jun. 27, 2023	NCR	Radiation (10CH01-KS)
Turn Table	EM	T-300-1	NA	0~360 degree	NCR	Jun. 27, 2023	NCR	Radiation (10CH01-KS)
RF Cable	HUBER+SUH NER	SUCOFLEX10 2E	NA	9KHz~40GHz	Dec. 10, 2022	Jun. 27, 2023	Dec. 09, 2023	Radiation (10CH01-KS)
EMI Test Receiver	Keysight	N9038A	MY57290151	3Hz~8.5GHz;M ax 30dBm	Jul. 11, 2022	Jun. 27, 2023	Jul. 10, 2023	Radiation (03CH08-KS)
Spectrum Analyzer	R&S	FSV40	101932	10kHz~40GHz; Max 30dBm	Oct. 12, 2022	Jun. 27, 2023	Oct. 11, 2023	Radiation (03CH08-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00240138	1GHz~18GHz	Jul. 08, 2022	Jun. 27, 2023	Jul. 07, 2023	Radiation (03CH08-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 08, 2023	Jun. 27, 2023	Jan. 07, 2024	Radiation (03CH08-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 05, 2023	Jun. 27, 2023	Jan. 04, 2024	Radiation (03CH08-KS)
Amplifier	EM	EM01G18GA	060834	1Ghz-18Ghz	Oct. 12, 2022	Jun. 27, 2023	Oct. 11, 2023	Radiation (03CH08-KS)
AC Power Source	Chroma	61601	61601000247 3	N/A	NCR	Jun. 27, 2023	NCR	Radiation (03CH08-KS)
Turn Table	EM	EM 1000-T	N/A	0~360 degree	NCR	Jun. 27, 2023	NCR	Radiation (03CH08-KS)
Antenna Mast	EM	EM 1000-A	N/A	1 m~4 m	NCR	Jun. 27, 2023	NCR	Radiation (03CH08-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 16, 2023	Jun. 26, 2023	May 15, 2024	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2022	Jun. 26, 2023	Oct. 12, 2023	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 16, 2023	Jun. 26, 2023	May 15, 2024	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2022	Jun. 26, 2023	Oct. 11, 2023	Conduction (CO01-KS)

NCR: No Calibration Required

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5. Measurement Uncertainty

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

_		
Me	easuring Uncertainty for a Level of Confidence	2.94 dB
	of 95% (U = 2Uc(y))	2.34 UB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz) - 03CH08-KS

Measuring Uncertainty for a Level of Confidence	4.90 dB
of 95% (U = 2Uc(y))	4.90 UB

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)-03CH08-KS

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.26 dB
0195% (0 = 200(y))	

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz) - 10CH01-KS(Horizontal)

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y))	5.14 dB
Confidence of 95% (U=2Uc(y))	

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz) - 10CH01-KS(Vertical)

Measuring Uncertainty for a Level of	5.12 dB
Confidence of 95% (U=2Uc(y))	3.12 ub

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