FCC Test Report

APPLICANT : Ring LLC EQUIPMENT : Test Kit

BRAND NAME : ring

MODEL NAME : 5UM3E5

FCC ID : 2AEUP-BHAGF001

STANDARD : 47 CFR Part 15 Subpart B

CLASSIFICATION: Certification

TEST DATE(S) : May 25, 2021 ~ Jul. 26, 2021

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.

Reviewed by: Jason Jia / Supervisor

JasonJia

Approved by: Alex Wang / Manager

Sporton International Inc. (Kunshan)

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

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Cert #5145.02

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC151806	Rev. 01	Initial issue of report	May 16, 2022

Sporton International Inc. (Kunshan)

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
					Under limit
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	8.51 dB at
					0.505 MHz
					Under limit
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	15.87 dB at
					48.43 MHz

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

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1. General Description

1.1. Applicant

Ring LLC

1523 26th Street, Santa Monica CA 90404, USA

1.2. Product Feature of Equipment Under Test

	Product Feature
Equipment	Test Kit
Brand Name	ring
Model Name	5UM3E5
FCC ID	2AEUP-BHAGF001
	Bluetooth LE
	LoRa
EUT supports Radios application	FSK
	GPS
	WIFI sniffing
HW Version	D-SS-A35-01A-A-V2.2
SW Version	nordic-diagnostics-images-1.2.0.5
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.

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1.3. Product Specification of Equipment Under Test

Stan	dards-related Product Specification
Tx Frequency	Bluetooth: 2402 MHz ~ 2480 MHz LoRa DTS: 902.5 MHz ~ 926.5 MHz LoRa FHSS: 902.2 MHz ~ 927.8 MHz FSK FHSS: 902.2 MHz ~ 927.8 MHz
Rx Frequency	Bluetooth: 2402 MHz ~ 2480 MHz LoRa DTS: 902.5 MHz ~ 926.5 MHz LoRa FHSS: 902.2 MHz ~ 927.8 MHz FSK FHSS: 902.2 MHz ~ 927.8 MHz GPS: 1559 MHz ~ 1610 MHz WLAN: 2400 MHz ~ 2484 MHz
Antenna Type	Bluetooth/WLAN: IFA Stamping Antenna LoRa: IFA Stamping Antenna FSK: IFA Stamping Antenna GPS: IFA Stamping Antenna
Type of Modulation	802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth LE: GFSK GPS: BPSK LoRa FSK

1.4. Modification of EUT

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

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1.5. Test Location

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

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Test Firm	Sporton International Inc.	Sporton International Inc. (Kunshan)					
No. 1098, Pengxi North Road, Kunshan Economic Development Zor							
Test Site Location	Jiangsu Province 215300 People's Republic of China						
Test Site Location	TEL: +86-512-57900158						
	FAX: +86-512-57900958						
			FCC Test Firm				
Test Site No.	Sporton Site No.	FCC Designation No.	Registration No.				
	CO01-KS 03CH02-KS	CN1257	314309				

1.6. Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH02-KS	AUDIX	E3	6.2009-8-24a
2.	CO01-KS	AUDIX	E3	6.2009-8-24

1.7. 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
- 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

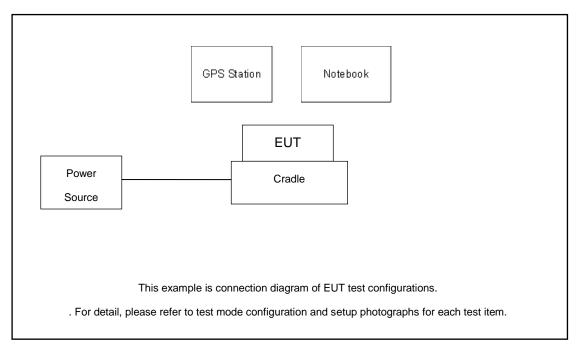
2.1. Test Mode

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 fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
AC Conducted Emission	Mode 1: Lora Idle + Bluetooth Idle + GNSS RX + WIFI sniffing + Cradle + Charging from Adapter
Radiated Emissions	Mode 1: Lora Idle + Bluetooth Idle + GNSS RX + WIFI sniffing + Cradle + Charging from Adapter

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.	Notebook	Lenovo	V130-15IKB005	N/A	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
2.	GPS Station	RACELOGIC	RLLS03-2RP	N/A	N/A	Unshielded, 1.8m
3.	Adapter	МОТО	MC-101	N/A	N/A	N/A

2.4. EUT Operation Test Setup

The EUT was set in engineer test mode by software controlled via Notebook, and make the Bluetooth/Lora/FSK/GPS in idle mode.

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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 B Limit>

Frequency of emission	Conducted limit (dBuV)				
(MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			

^{*}Decreases with the logarithm of the frequency.

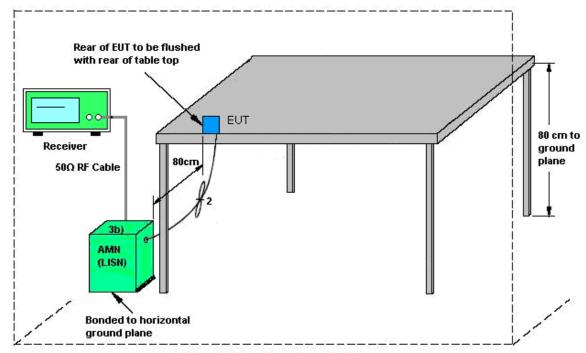
3.1.2 Measuring Instruments

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.

3.1.4 Test Setup



AMN = Artificial mains network (LISN)

AE = Associated equipment

EUT = Equipment under test

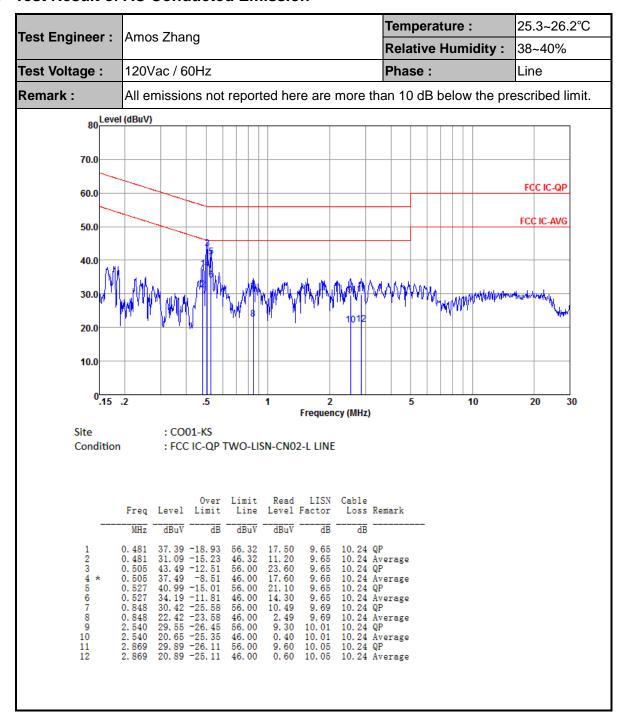
ISN = Impedance stabilization network

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3.1.5 Test Result of AC Conducted Emission



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25.3~26.2°C Temperature: 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. 80 Level (dBuV) 70.0 FCC IC-QP 60.0 FCC IC-AVG 50.0 40.0 30.0 20.0 10.0 0.15 .2 5 10 20 30 Frequency (MHz) Site : CO01-KS Condition : FCC IC-QP TWO-LISN-CN02-N NEUTRAL 0ver Limit Read LISN Cable Level Factor Loss Remark MHz dBuV ďΒ dBuV dBuV 32. 28 -24. 08 26. 18 -20. 18 37. 86 -18. 14 32. 46 -13. 54 35. 26 -20. 74 29. 36 -16. 64 28. 26 -27. 74 20. 86 -25. 14 26. 06 -29. 94 21. 16 -24. 84 26. 46 -29. 54 18. 96 -27. 04 12.31 0.479 56.36 9. 73 9. 73 9. 73 9. 73 9. 73 9. 73 9. 73 46. 36 56. 00 6. 21 17. 89 12. 49 10.24 Average 10.24 QP 10.24 Average 0. 479 0. 505 0.505 15. 29 9. 39 8. 29 0. 89 10. 24 QP 10. 24 QP 10. 24 Average 10. 24 QP 10. 24 Average 56. 00 46. 00 0. 527 0. 527 0.579 0.579 56. 00 46. 00 9. 72 9. 72 10. 02 10. 02 6. 10 1. 20 6. 20 10.24 QP 10.24 Average 10.24 QP 56.00 0. 796 2. 581 2. 581 46. 00 56. 00 10 11

Note:

- 1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- 2. Over Limit(dB) = Level(dB μ V) Limit Line(dB μ V)

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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 B Limit>

Frequency	Field Strength	Measurement Distance		
(MHz)	(microvolts/meter)	(meters)		
30 – 88	100	3		
88 – 216	150	3		
216 - 960	200	3		
Above 960	500	3		

3.2.2. Measuring Instruments

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

3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters 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.
- 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 $(dB\mu V/m) = 20 \log Emission level (\mu V/m)$
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

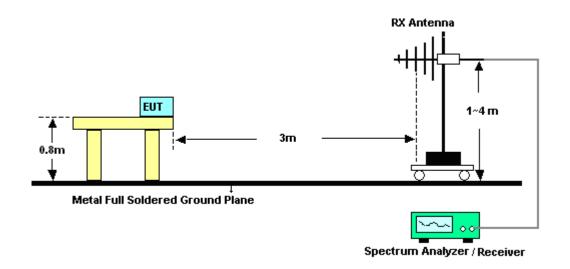
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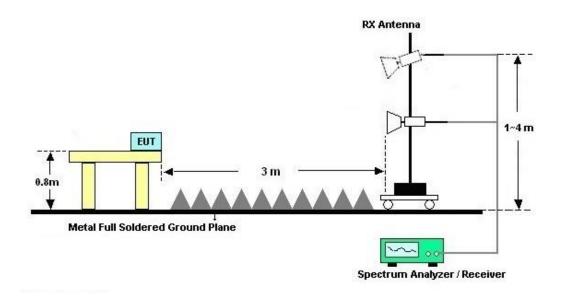
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

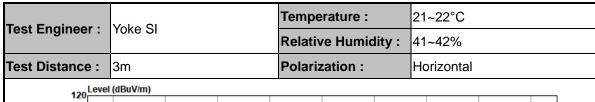


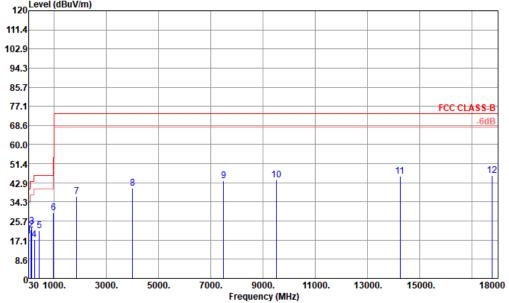
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3.2.5. Test Result of Radiated Emission





Site : 03CH02-KS

Condition : FCC CLASS-B 3m LF 6111D SN44483 HORIZONTAL

	Freq	Level	Over Limit			Antenna Factor			A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	CM	deg	
1	30.00	19.07	-20.93	40.00	25.36	25.10	0.81	32.20			Peak
2	117.30	21.76	-21.74	43.50	34.61	17.44	1.88	32.17			Peak
3	157.07	23.25	-20.25	43.50	36.48	16.68	2.19	32.10	200	60	Peak
4	256.01	17.37	-28.63	46.00	26.92	19.85	2.79	32.19			Peak
5	440.31	21.48	-24.52	46.00	27.16	22.87	3.67	32.22			Peak
6	982.54	29.52	-24.48	54.00	25.47	30.74	5.44	32.13			Peak
7	1872.00	36.82	-37.18	74.00	64.69	28.19	7.57	63.63			Peak
8	4008.00	40.36	-33.64	74.00	57.62	34.90	11.15	63.31			Peak
9	7488.00	43.94	-30.06	74.00	55.98	36.50	15.34	63.88			Peak
10	9513.00	44.25	-29.75	74.00	53.72	37.50	17.34	64.31			Peak
11	14247.00	45.66	-28.34	74.00	48.68	38.74	21.45	63.21			Peak
12	17775.00	46.29	-27.71	74.00	41.80	41.24	24.33	61.08			Peak

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Temperature: 21~22°C Test Engineer: Yoke SI **Relative Humidity:** 41~42% Polarization: Vertical **Test Distance:** 3m 120 Level (dBuV/m) 111.4 102.9 94.3 85.7 77.1 FCC CLASS-B 68.6 60.0 51.4 12 42.9 25.7 17.1 8.6 30 1000. 9000. 13000. 15000. 18000 3000. 5000. 7000. 11000. Frequency (MHz) Site : 03CH02-KS Condition : FCC CLASS-B 3m LF 6111D SN44483 VERTICAL Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB deg 48.43 24.13 -15.87 40.00 39.75 15.38 1.20 32.20 100 200 Peak 54.25 24.11 -15.89 40.00 41.64 13.40 1.27 32.20 --- Peak 115.36 26.00 -17.50 43.50 38.97 17.33 1.87 32.17 --- Peak 172.59 23.17 -20.33 43.50 37.44 15.54 2.29 32.10 --- Peak 209.45 17.35 -26.15 43.50 31.75 15.20 2.52 32.12 --- Peak --- Peak 496.57 23.54 -22.46 46.00 28.10 23.93 3.89 32.38 2016.00 38.98 -35.02 74.00 64.37 30.19 7.88 63.46 --- Peak 5056.00 42.92 -31.08 74.00 59.09 34.85 12.44 63.46 --- Peak 7024.00 44.57 -29.43 74.00 57.24 36.21 14.93 63.81 --- Peak --- Peak 10 9891.00 44.93 -29.07 74.00 53.82 37.50 17.81 64.20 11 13653.00 44.59 -29.41 74.00 47.74 38.46 20.94 62.55 --- Peak

Note:

 Level(dBμV/m) = Read Level(dBμV) + Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Factor(dB)

40.67

23.87

61.18

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

17298.00 45.94 -28.06 74.00 42.58

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--- Peak

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4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Ma x 30dBm	Oct. 17, 2020	Jul. 26, 2021	Oct. 16, 2021	Radiation (03CH02-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G,MAX 30dB	Oct. 17, 2020	Jul. 26, 2021	Oct. 16, 2021	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Jan. 26, 2021	Jul. 26, 2021	Jan. 25, 2022	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 01, 2020	Jul. 26, 2021	Oct. 31, 2021	Radiation (03CH02-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 06, 2020	Jul. 26, 2021	Nov. 05, 2021	Radiation (03CH02-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 06, 2021	Jul. 26, 2021	Jan. 05, 2022	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 06, 2021	Jul. 26, 2021	Jan. 05, 2022	Radiation (03CH02-KS)
Amplifier	Keysight	83017A	MY53270316	500MHz~26.5G Hz	Oct. 17, 2020	Jul. 26, 2021	Oct. 16, 2021	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	61601000247 3	N/A	NCR	Jul. 26, 2021	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Jul. 26, 2021	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Jul. 26, 2021	NCR	Radiation (03CH02-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 21, 2021	May 25, 2021	Apr. 20, 2022	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 17, 2020	May 25, 2021	Oct. 16, 2021	Conduction (CO01-KS)
AC LISN	R&S	ENV216	100334	9kHz~30MHz	Oct. 17, 2020	May 25, 2021	Oct. 16, 2021	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 17, 2020	May 25, 2021	Oct. 16, 2021	Conduction (CO01-KS)

NCR: No Calibration Required

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5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence	2.9dB
of 95% (U = 2Uc(y))	2.90Б

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence	4.9dB
of 95% (U = 2Uc(y))	4.906

<u>Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)</u>

1		
	Measuring Uncertainty for a Level of Confidence	5.0dB
	of 95% (U = 2Uc(y))	3.VUD

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