FCC Test Report

APPLICANT : Gosuncn Technology Group Co., Ltd.

EQUIPMENT : LTE Module BRAND NAME : GOSUNCN

MODEL NAME : GM500-U1G_A

FCC ID : 2APNR-GM500U1G

STANDARD : 47 CFR Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on Dec. 03, 2020 and testing was completed on Dec. 11, 2020. We, Sporton International (Shenzhen) Inc., 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 (Shenzhen) Inc., the test report shall not be reproduced except in full.

Reviewed by: Derreck Chen / Supervisor

Fire Shih

Dogula Cher

Approved by: Eric Shih / Manager

Sporton International (ShenZhen) Inc.

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen, 518055

People's Republic of China

Sporton International (Shenzhen) Inc.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC0D0333	Rev. 01	Initial issue of report	Dec. 31, 2020

Sporton International (Shenzhen) Inc.

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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	18.93 dB at
					0.15 MHz
					Under limit
3.2	15.109	5.109 Radiated Emission	< 15.109 limits	PASS	11.92 dB at
					119.24 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.

Sporton International (Shenzhen) Inc.

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1. General Description

1.1. Applicant

Gosunch Technology Group Co., Ltd.

6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City, Guangdong, China.

1.2. Manufacturer

Gosuncn Technology Group Co., Ltd.

6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City, Guangdong, China.

1.3. Product Feature of Equipment Under Test

	Product Feature
Equipment	LTE Module
Brand Name	GOSUNCN
Model Name	GM500-U1G_A
FCC ID	2APNR-GM500U1G
EUT supports Radios application	WCDMA/LTE
IMEL Code	Conduction: 863175050077999
IMEI Code	Radiation: 863175050078021
HW Version	GM500-U1G_A.H01
SW Version	GM500U1GV1.0B01
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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1.4. Product Specification of Equipment Under Test

Standards-related Product Specification				
Tx Frequency	WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 13: 779.5 MHz ~ 784.5 MHz LTE Band 25: 1850.7 MHz ~ 1914.3 MHz LTE Band 26: 814.7 MHz ~ 848.3 MHz			
Rx Frequency	WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 4: 2110.7 MHz ~ 2154.3 MHz LTE Band 5: 869.7 MHz ~ 893.3 MHz LTE Band 12: 729.7 MHz ~ 745.3 MHz LTE Band 13: 748.5 MHz ~ 753.5 MHz LTE Band 25: 1930.7 MHz ~ 1994.3 MHz LTE Band 26: 859.7 MHz ~ 893.3 MHz			
Antenna Type	WWAN : External Antenna			
Type of Modulation	WCDMA: BPSK HSPA: QPSK HSUPA: QPSK HSPA+: 16QAM (Downlink only) DC-HSDPA: 64QAM LTE: QPSK / 16QAM / 64QAM (Downlink only)			

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 (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International (Shenzhen) Inc.				
Test Site Location	1/F, 2/F, Bldg 5, Shili Shenzhen, 518055 Peop TEL: +86-755-86379589	le's Republic of China	nwei Village, Xili, Nanshan,		
	FAX: +86-755-86379595				
	Sporton Site No.	FCC Designation No	FCC Test Firm		
Test Site No.	Sporton Site No.	1 CC Designation No.	Registration No.		
	CO01-SZ	CN1256	421272		

Test Firm	Sporton International (Shenzhen) Inc.				
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398				
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.		
	03CH02-SZ	CN1256	421272		

1.7. Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a
2.	CO01-SZ	AUDIX	E3	6.120613b

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
- ANSI C63.4-2014

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

Sporton International (Shenzhen) Inc.

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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
	Mode 1: WCDMA Band V Idle (Middle CH) + Adaptor
AC Conducted	Mode 2: LTE Band 12 Idle (High CH) + Adaptor
Emission	Mode 3: LTE Band 13 Idle (Low CH) + Adaptor
	Mode 4: LTE Band 26 Idle (Middle CH) + Adaptor
	Mode 1: WCDMA Band V Idle (Middle CH) + Adaptor
Radiated	Mode 2: LTE Band 12 Idle (High CH) + Adaptor
Emissions	Mode 3: LTE Band 13 Idle (Low CH) + Adaptor
	Mode 4: LTE Band 26 Idle (Middle CH) + Adaptor

Remark:

- 1. The worst case of AC is mode 3; only the test data of this mode is reported.
- 2. The worst case of RE is mode 1; only the test data of this mode is reported.
- 3. Pre-scanned Low/Middle/High channel for WCDMA Band V/LTE Band 12/13/26, the worst channel was recorded in this report.

Sporton International (Shenzhen) Inc.

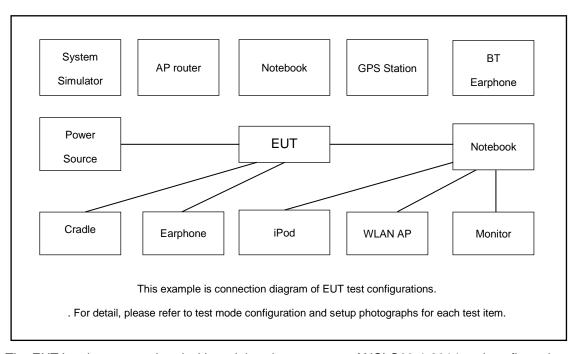
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2.2. Connection Diagram of Test System



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

2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8m

2.4. EUT Operation Test Setup

The EUT was in WCDMA or LTE idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

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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.

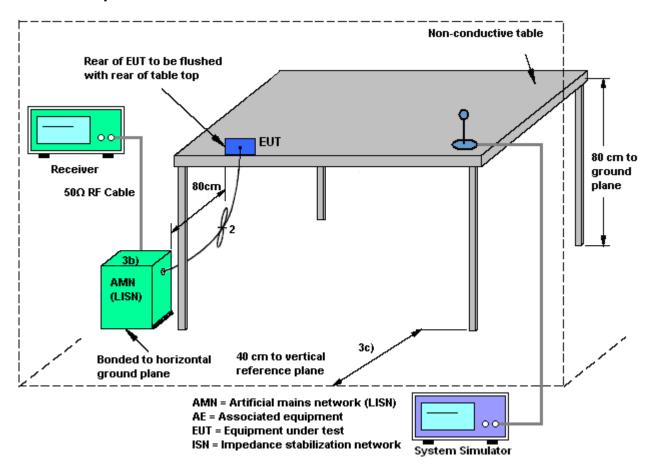
3.1.3 Test Procedure

- 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.

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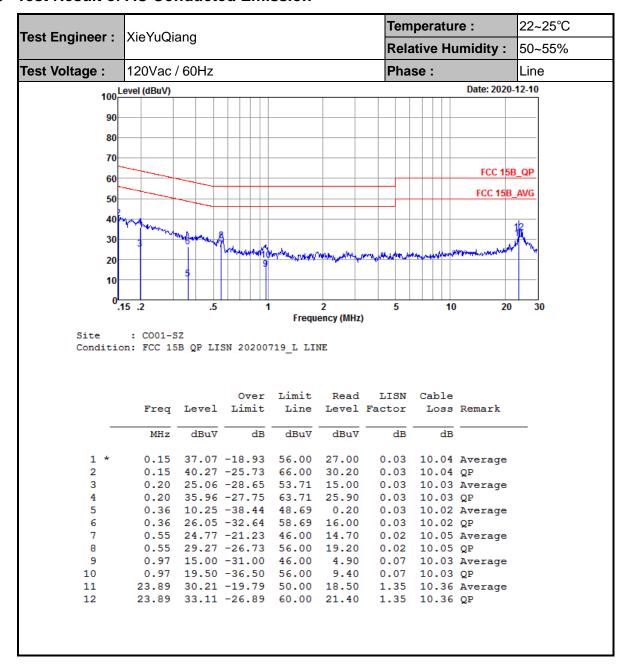
3.1.4 Test Setup



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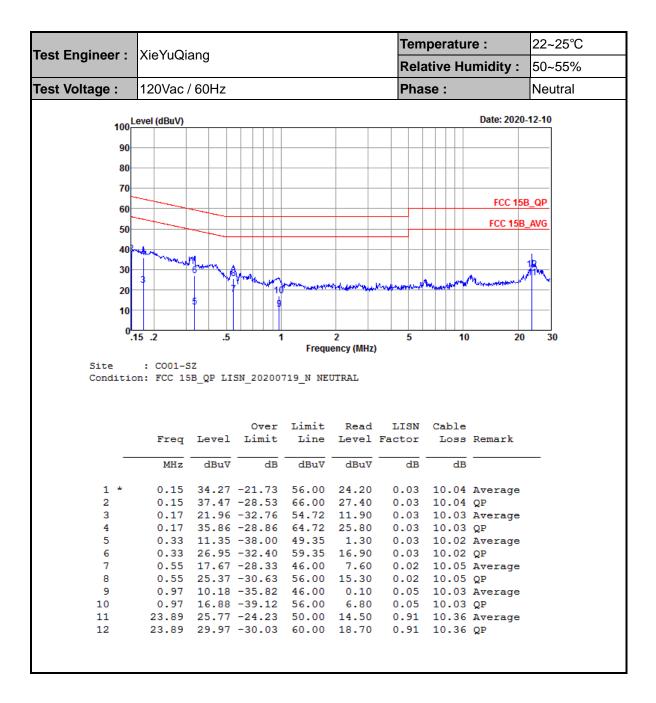
3.1.5 Test Result of AC Conducted Emission



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Note:

- 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.
- 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 $(dB\mu V/m) = 20 \log Emission level (\mu V/m)$
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

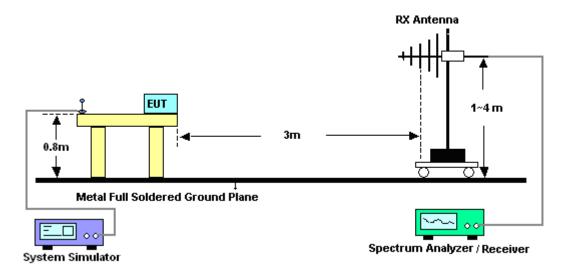
Sporton International (Shenzhen) Inc.

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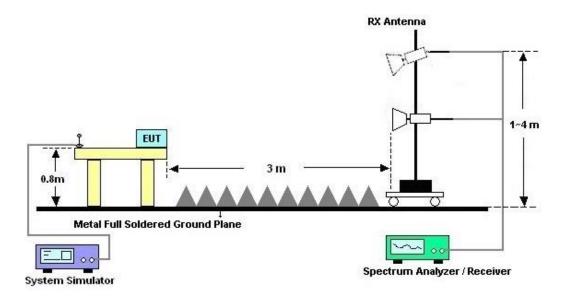
Report No.: FC0D0333

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



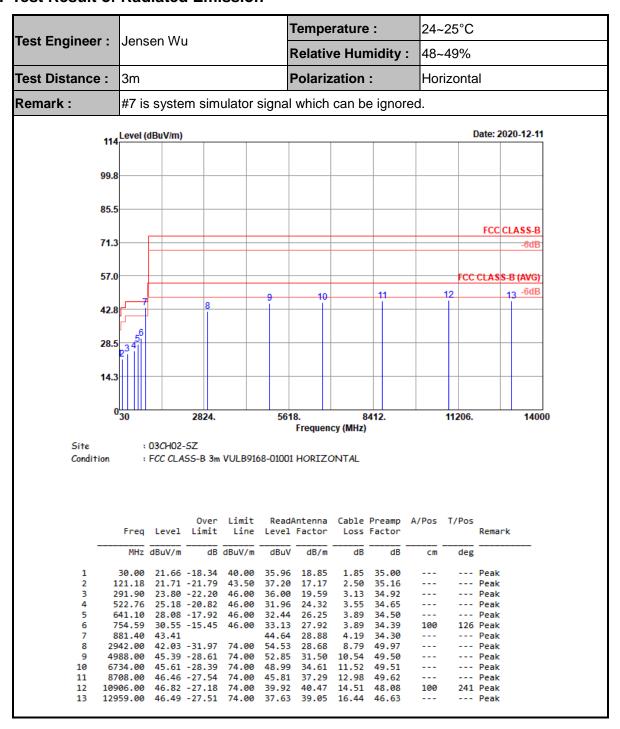
For radiated emissions above 1GHz



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3.2.5. Test Result of Radiated Emission



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oct Engineer : Joneon Wu			7	Temperature :			24~	24~25°C					
Test Engineer :	st Engineer : Jensen Wu				F	Relative Humidity :				48~49%			
Test Distance :	3m				F	Polarization :			Ver	Vertical			
Remark :	#7 is	syste	m sim	ulator	signal	which	can b	e ignoi	ed.				
114	Level (d	Level (dBuV/m)								Date: 2020-12-11			
114													
99.8	<u> </u>												
85.5													
71.3											FCC	CLASS-B	
												-5010	
57.0										FCC	CLAS	S-B (AVG)	
	7		8			10		11		12		13 -6dB	
42.8													
28.5	B 6												
14.3													
C	30	'	2824.		561		cy (MHz)	3412.	'	11206.		14000	
						. roquon	OJ (IIIII IZ/						
Site	: (03CH02-	·SZ										
Site Condition				VULB916	58-01001	VERTIC	AL						
				VULB916	58-01001	VERTI <i>C</i>	AL						
				VULB916	58-01001	VERTI <i>C</i>	AL						
	:		SS-B 3m Over	Limit		Antenna	Cable	Preamp Factor	A/Pos	T/Pos	Rema	rk	
	Freq	FCC CLA	Over	Limit	ReadA	Antenna	Cable Loss		A/Pos	T/Pos deg	Rema	rk 	
Condition	Freq MHz	Level	Over Limit ————	Limit Line	ReadA Level ———— dBuV	Antenna Factor	Cable Loss ————	Factor		deg	Rema		
	Freq MHz 30.00 61.04	Leve1 dBuV/m 23.58 23.45	Over Limit ———————————————————————————————————	Limit Line dBuV/m 40.00 40.00	ReadA Level dBuV 37.88 36.89	Antenna Factor dB/m 18.85 19.40	Cable Loss dB	AB 35.00 35.12	cm	deg	Peak Peak		
Condition 1 2 3 1	Freq MHz 30.00 61.04 19.24	Level 	Over Limit ———————————————————————————————————	Limit Line ——— dBuV/m	ReadA Level dBuV 37.88 36.89 47.22	18.85 19.40 17.03	Cable Loss dB 1.85 2.28 2.49	Factor dB 35.00	cm	deg	Peak		
Condition 1 2 3 1 4 1 5 2	Freq MHz 30.00 61.04 19.24 87.14 87.05	Level 	Over Limit ———————————————————————————————————	Limit Line dBuV/m 40.00 40.00 43.50 43.50 46.00	ReadA Level dBuV 37.88 36.89 47.22 38.32 36.49	18.85 19.40 17.03 17.18	Cable Loss dB 1.85 2.28 2.49 2.70 3.10	35.00 35.12 35.16 35.10 34.93	 100	deg 205 	Peak Peak Peak Peak Peak Peak		
Condition 1 2 3 1 4 1 5 2 6 8	Freq MHz 30.00 61.04 19.24 87.14 87.05	Level 	Over Limit ———————————————————————————————————	Limit Line dBuV/m 40.00 43.50 43.50	Read# Level dBuV 37.88 36.89 47.22 38.32 36.49 31.34	18.85 19.40 17.03 19.51 28.27	Cable Loss dB 1.85 2.28 2.49 2.70 3.10 3.96	35.00 35.12 35.16 35.10 34.93 34.30	cm	deg 205 	Peak Peak Peak Peak Peak Peak		
Condition 1 2 3 1 4 1 5 2 6 8 7 8	Freq MHz 30.00 61.04 19.24 87.14 87.05 06.00	Level dBuV/m 23.58 23.45 31.58 23.10 24.17 29.27 43.45	Over Limit ———————————————————————————————————	Limit Line dBuV/m 40.00 40.00 43.50 43.50 46.00	Read# Level 37.88 36.89 47.22 38.32 36.49 31.34	18.85 19.40 17.03 17.18 19.51 28.27 28.88	Cable Loss dB 1.85 2.28 2.49 2.70 3.10 3.96 4.19	35.00 35.12 35.16 35.10 34.93	 100	deg	Peak Peak Peak Peak Peak Peak		
Condition 1 2 3 1 4 1 5 2 6 8 7 8 8 28 9 45	Freq MHz 30.00 61.04 19.24 87.14 87.05 06.00 806.00	Level 	Over Limit ———————————————————————————————————	Limit Line dBuV/m 40.00 40.00 43.50 43.50 46.00 74.00 74.00	ReadA Level 37.88 36.89 47.22 38.32 36.49 31.34 44.68 55.87 54.62	18.85 19.40 17.03 17.18 19.51 28.27 28.82 28.21 30.87	Cable Loss dB 1.85 2.28 2.49 2.70 3.10 3.96 4.19 8.52 10.17	35.00 35.12 35.16 35.10 34.93 34.30 34.30 50.13 49.58	 100 	deg	Peak Peak Peak Peak Peak Peak Peak Peak		
Condition 1 2 3 1 4 1 5 2 6 8 7 8 8 28 9 45 10 64	Freq MHz 30.00 61.04 19.24 87.15 96.00 81.40 96.00 30.00	Level 	Over Limit ———————————————————————————————————	Limit Line 	ReadA Level 37.88 36.89 47.22 38.32 36.49 31.34 44.68 55.87 54.62 50.73	18.85 19.40 17.03 17.18 19.51 28.27 28.88 28.21 30.87 33.80	Cable Loss dB 1.85 2.28 2.49 2.70 3.10 3.96 4.19 8.52 10.17 11.22	75.00 35.12 35.16 35.10 34.93 34.30 34.30 34.30 49.58 48.91	cm	deg	Peak Peak Peak Peak Peak Peak Peak Peak		
Condition 1 2 3 1 4 1 5 2 6 8 7 8 8 28 9 45 10 64 11 84	Freq MHz 30.00 61.04 19.24 87.14 87.05 06.00 81.40 06.00 86.00 30.00 16.00	Level dBuV/m 23.58 23.45 31.58 23.10 24.17 29.27 43.45 42.47 46.08 46.84 47.25	Over Limit ———————————————————————————————————	Limit Line dBuV/m 40.00 40.00 43.50 43.50 46.00 74.00 74.00	Read ^A Level dBuV 37.88 36.89 47.22 38.32 36.49 31.34 44.68 55.87 54.62 50.73 46.97	18.85 19.40 17.03 17.18 19.51 28.27 28.88 28.21 30.87 33.80 37.08	Cable Loss dB 1.85 2.28 2.49 2.70 3.10 3.96 4.19 8.52 10.17 11.22 12.95	35.00 35.12 35.16 35.10 34.93 34.30 50.13 49.58 48.91 49.75	 100 	deg 205 94	Peak Peak Peak Peak Peak Peak Peak Peak		

Note:

- 1. Level(dB μ V/m) = Read Level(dB μ 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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 16, 2020	Dec. 11, 2020	Oct. 15, 2021	Radiation (03CH02-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 21, 2020	Dec. 11, 2020	Jul. 20, 2021	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Jul. 15, 2020	Dec. 11, 2020	Jul. 14, 2021	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 25, 2020	Dec. 11, 2020	Jul. 24, 2021	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 16, 2020	Dec. 11, 2020	Oct. 15, 2021	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P- R	1943528	1GHz~18GHz	Oct. 16, 2020	Dec. 11, 2020	Oct. 15, 2021	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	61601000247 0	N/A	NCR	Dec. 11, 2020	NCR	Radiation (03CH02-SZ
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Dec. 11, 2020	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Dec. 11, 2020	NCR	Radiation (03CH02-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Dec. 27, 2019	Dec. 10, 2020	Dec. 26, 2021	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Dec. 27, 2020	Dec. 10, 2020	Dec. 26, 2021	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 15, 2020	Dec. 10, 2020	Oct. 14, 2021	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	61602000089 1	100Vac~250Vac	Jul. 21, 2020	Dec. 10, 2020	Jul. 20, 2021	Conduction (CO01-SZ)

NCR: No Calibration Required

Sporton International (Shenzhen) Inc.

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5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence	2.7dB
of 95% (U = 2Uc(y))	2.740

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

Measuring Uncertainty for a Level of Confidence	5.0dB
of 95% (U = 2Uc(y))	3.0GB

<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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