FCC Test Report

APPLICANT : Rolling Wireless S.à r.l.

EQUIPMENT: Module

BRAND NAME : Rolling Wireless

MODEL NAME : RL9422

FCC ID : 2AX2URL9422

STANDARD : 47 CFR Part 15 Subpart B

CLASSIFICATION: Certification

TEST DATE(S) : Jun. 27, 2022 ~ Jul. 01, 2022

We, Sporton International Inc. (Shenzhen), 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. (Shenzhen), the test report shall not be reproduced except in full.

JasonJia

Approved by: Jason Jia





Report No.: FC240603

Sporton International Inc. (ShenZhen)

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

People's Republic of China

Sporton International Inc. (ShenZhen)

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC240603	Rev. 01	Initial issue of report	Sep. 19, 2022

Sporton International Inc. (ShenZhen)

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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	22.85 dB at
					1.000 MHz
					Under limit
3.2	15.109	15.109 Radiated Emission	< 15.109 limits	PASS	11.68 dB at
					952.470 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

Rolling Wireless S.à r.l.

15, rue Edward Steichen, 2540 Luxembourg

1.2. Manufacturer

Rolling Wireless S.à r.l.

15, rue Edward Steichen, 2540 Luxembourg

1.3. Product Feature of Equipment Under Test

	Product Feature		
Equipment	Module		
Brand Name	Rolling Wireless		
Model Name	RL9422		
FCC ID	2AX2URL9422		
EUT supports Radios application	GSM/WCDMA/LTE/GNSS		
IMEL Code	Conduction: 350029960010317		
IMEI Code	Radiation: 350029960010317		
HW Version	1.0		
SW Version	AFPQ9X40A_01.08.00.00		
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

Stan	dards-related Product Specification				
	GSM850: 824 MHz ~ 849 MHz				
	GSM1900: 1850MHz ~ 1910MHz				
	WCDMA Band II: 1850 MHz ~ 1910 MHz				
	WCDMA Band IV: 1710 MHz ~ 1755 MHz				
	WCDMA Band V: 824 MHz ~ 849 MHz				
Tx Frequency	LTE Band 2 : 1850 MHz ~ 1910 MHz				
	LTE Band 4 : 1710 MHz ~ 1755 MHz				
	LTE Band 5 : 824 MHz ~ 849 MHz				
	LTE Band 12 : 699 MHz ~ 716 MHz				
	LTE Band 13 : 777 MHz ~ 787 MHz				
	LTE Band 17 : 704 MHz ~ 716 MHz				
	GSM850: 869 MHz ~ 894 MHz				
	GSM1900: 1930 MHz ~ 1990 MHz				
	WCDMA Band II: 1930 MHz ~ 1990 MHz				
	WCDMA Band IV: 2110 MHz ~ 2155 MHz				
	WCDMA Band V: 869 MHz ~ 894 MHz				
	LTE Band 2: 1930 MHz ~ 1990 MHz				
Rx Frequency	LTE Band 4 : 2110 MHz ~ 2155 MHz				
	LTE Band 5 : 869 MHz ~ 894 MHz				
	LTE Band 12 : 729 MHz ~ 746 MHz				
	LTE Band 13 : 746 MHz ~ 756 MHz				
	LTE Band 17 : 734 MHz ~ 746 MHz				
	LTE Band 29 : 717 MHz ~ 728 MHz				
	GNSS: 1559 MHz ~ 1610 MHz				
Antonno Typo	WWAN : Dipole Antenna				
Antenna Type	GNSS: Magnetic Mount Antenna				
	GSM/GPRS: GMSK				
	EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK				
	WCDMA: BPSK				
	HSDPA/DC-HSDPA : QPSK				
Type of Modulation	HSUPA: QPSK				
Type of Modulation					
	HSPA+ : 16QAM (16QAM uplink is not supported)				
	DC-HSDPA: 64QAM				
	LTE: QPSK / 16QAM / 64QAM (Downlink Only)				
	GNSS: 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. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (Shenzhen)							
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595							
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.					
	CO01-SZ TH01-SZ	CN1256	421272					

Test Firm	Sporton International Inc. (Shenzhen)					
	101, 1st Floor, Block B, Buildin					
Test Site Location	Community, Fuyong Street, Baoa	an District, Shenzhen Ci	ty Guangdong Province			
rest one Location	China 518103					
	TEL: +86-755-33202398					
	Sporton Sito No	FCC Designation	FCC Test Firm			
Test Site No.	Sporton Site No.	No.	Registration No.			
	03CH04-SZ	CN1256	421272			

1.7. Test Software

Item	Site Manufacturer Name		Name	Version
1.	03CH04-SZ	AUDIX	E3	6.2009-8-24
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.

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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
	Mode 1: GSM 850 Idle(Middle CH) + GNSS RX + Adapter
AC Conducted Emission	Mode 2: WCDMA V Idle(Low CH) + GNSS RX + Adapter
Zimosion	Mode 3: LTE Band 12 Idle(High CH) + GNSS RX + Adapter
	Mode 1: GSM 850 Idle(Middle CH) + GNSS RX + Adapter
Radiated Emissions	Mode 2: WCDMA V Idle(Low CH) + GNSS RX + Adapter
Limotorio	Mode 3: LTE Band 12 Idle(High CH) + GNSS RX + Adapter

Remark:

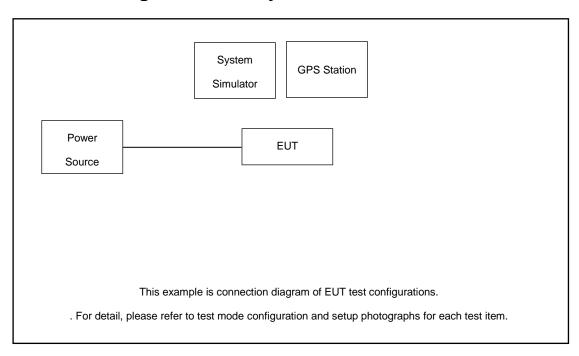
- 1. The worst case of AC is mode 1; only the test data of this mode is reported.
- 2. The worst case of RE is mode 3; only the test data of this mode is reported.
- **3.** Pre-scanned Low/Middle/High channel for GSM 850/WCDMA Band V/LTE Band 12, the worst channel was recorded in this report.

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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.	Base Station	Anritsu	MT8820C	N/A	N/A	Shielded, 1.5m
2.	GPS Station	T&E	GS-50	N/A	N/A	Unshielded, 1.8 m
3.	Adapter	N/A	N/A	N/A	N/A	N/A
4.	Test Jig	N/A	N/A	N/A	N/A	N/A
5.	WWAN Antenna	N/A	N/A	N/A	N/A	N/A
6.	GNSS Antenna	N/A	N/A	N/A	N/A	N/A

2.4. EUT Operation Test Setup

The EUT was in GSM or 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.

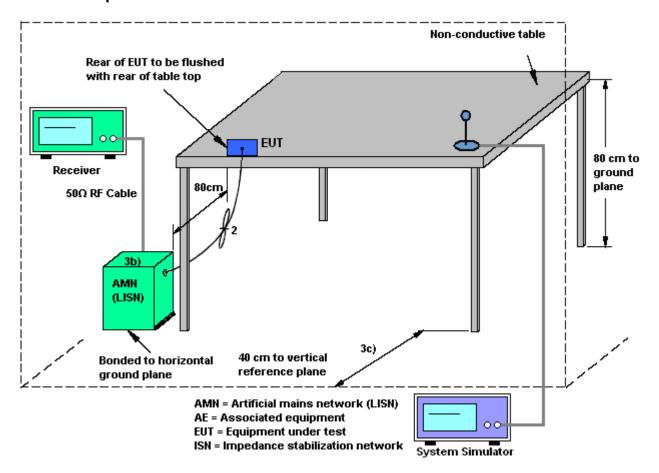
3.1.3 Test Procedure

- 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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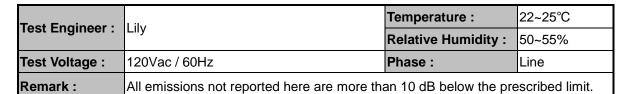
3.1.4 Test Setup

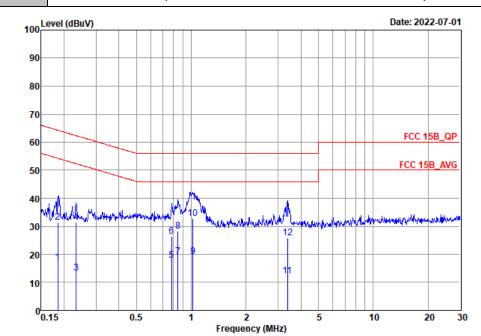


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3.1.5 Test Result of AC Conducted Emission





Site : COO1-SZ

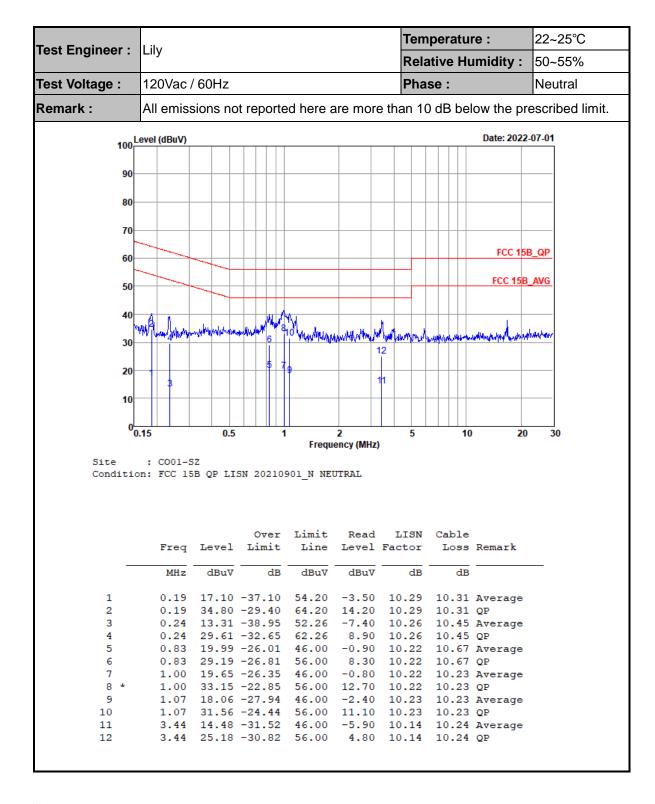
Condition: FCC 15B QP LISN 20210901_L LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.19	17.03	-37.21	54.24	-3.50	10.20	10.33	Average
2	0.19	31.43	-32.81	64.24	10.90	10.20	10.33	QP
3	0.23	13.42	-38.93	52.35	-7.21	10.19	10.44	Average
4	0.23	31.52	-30.83	62.35	10.89	10.19	10.44	QP
5	0.78	17.74	-28.26	46.00	-3.20	10.12	10.82	Average
6	0.78	26.44	-29.56	56.00	5.50	10.12	10.82	QP
7	0.84	19.24	-26.76	46.00	-1.50	10.11	10.63	Average
8	0.84	28.14	-27.86	56.00	7.40	10.11	10.63	QP
9	1.02	19.15	-26.85	46.00	-1.20	10.12	10.23	Average
10 *	1.02	32.85	-23.15	56.00	12.50	10.12	10.23	QP
11	3.38	12.20	-33.80	46.00	-8.10	10.06	10.24	Average
12	3.38	26.00	-30.00	56.00	5.70	10.06	10.24	QP

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Note:

- 1. Level($dB\mu V$) = Read Level($dB\mu V$) + 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.

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3.2.3. Test Procedures

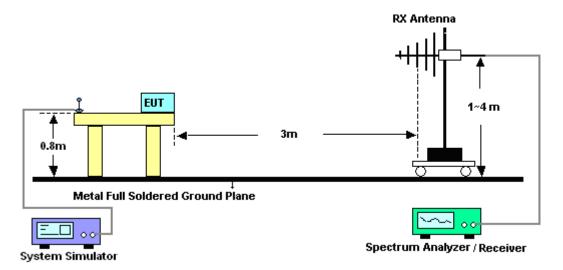
- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The 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 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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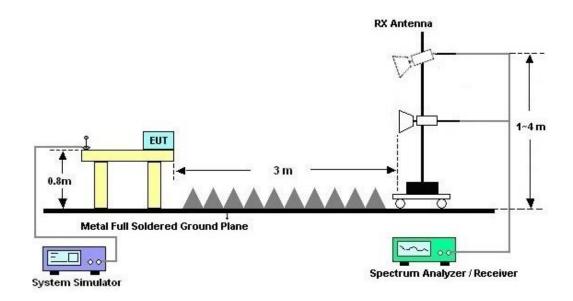
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



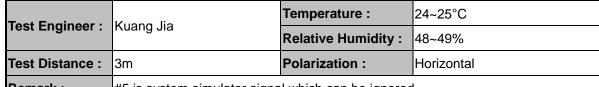
For radiated emissions above 1GHz



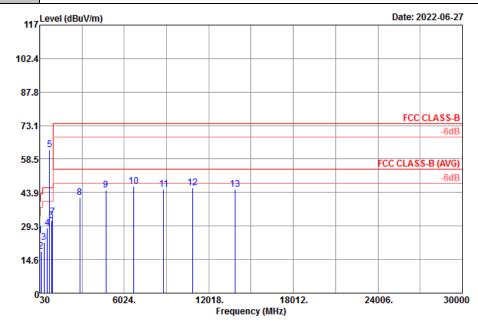
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3.2.5. Test Result of Radiated Emission



Remark: #5 is system simulator signal which can be ignored.



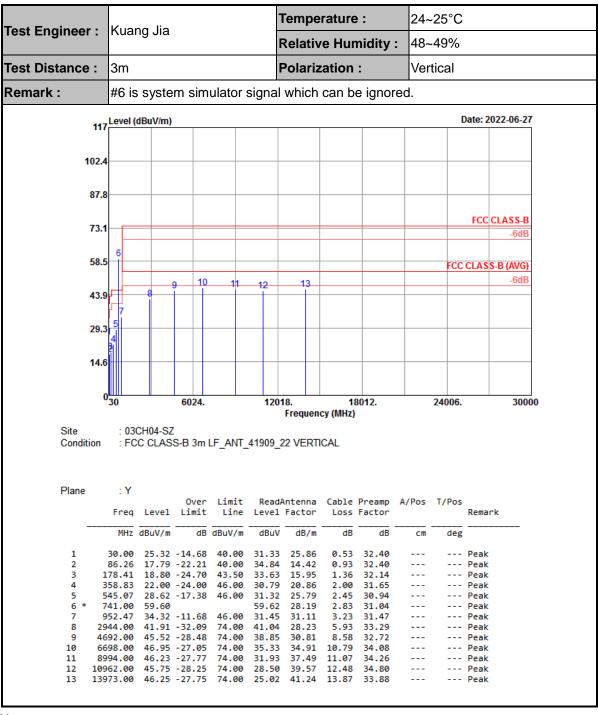
Site : 03CH04-SZ

Condition : FCC CLASS-B 3m LF ANT_41909_22 HORIZONTAL

Plane	: Y										
			0ver	Limit	Read/	Antenna	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	cm	deg	
1	30.00	24.99	-15.01	40.00	31.00	25.86	0.53	32.40			Peak
2	127.97	18.10	-25.40	43.50	31.55	17.59	1.16	32.20			Peak
3	342.34	22.26	-23.74	46.00	31.51	20.50	1.95	31.70			Peak
4	583.87	28.45	-17.55	46.00	30.45	26.24	2.53	30.77			Peak
5 *	741.00	62.71			62.73	28.19	2.83	31.04			Peak
6	862.26	31.70	-14.30	46.00	31.11	28.93	3.08	31.42			Peak
7	947.62	33.12	-12.88	46.00	30.32	31.07	3.23	31.50			Peak
8	2858.00	41.71	-32.29	74.00	41.22	28.01	5.84	33.36			Peak
9	4732.00	45.04	-28.96	74.00	37.93	30.97	8.79	32.65			Peak
10	6672.00	46.75	-27.25	74.00	34.97	34.85	10.96	34.03			Peak
11	8816.00	45.33	-28.67	74.00	31.03	37.44	11.05	34.19			Peak
12	10856.00	45.85	-28.15	74.00	28.77	39.49	12.43	34.84			Peak
13	13889.00	45.26	-28.74	74.00	24.23	41.10	13.83	33.90			Peak

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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

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Sep. 01, 2021	Jul. 01, 2022	Aug. 31, 2022	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Sep. 01, 2021	Jul. 01, 2022	Aug. 31, 2022	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 29, 2021	Jul. 01, 2022	Oct. 28, 2022	Conduction (CO01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 22, 2021	Jun. 27, 2022	Oct. 21, 2022	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 08, 2021	Jun. 27, 2022	Jul. 07, 2022	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	Oct. 22, 2021	Jun. 27, 2022	Oct. 21, 2022	Radiation (03CH04-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 22, 2021	Jun. 27, 2022	Oct. 21, 2022	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 08, 2021	Jun. 27, 2022	Jul. 07, 2022	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P- R	1943528	1GHz~18GHz	Oct. 22, 2021	Jun. 27, 2022	Oct. 21, 2022	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35-H G	1871923	18GHz~40GHz	Oct. 22, 2021	Jun. 27, 2022	Oct. 21, 2022	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBE CK	BBHA9170	9170#679	15GHz~40GHz	Jul. 08, 2021	Jun. 27, 2022	Jul. 07, 2022	Radiation (03CH04-SZ)
AC Power Source	Chroma	61601	N/A	N/A	NCR	Jun. 27, 2022	NCR	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jun. 27, 2022	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jun. 27, 2022	NCR	Radiation (03CH04-SZ)

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5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence	2.2dB
of 95% (U = 2Uc(y))	2.20Б

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

- 1		
	Measuring Uncertainty for a Level of Confidence	5.1dB
	of 95% (U = 2Uc(y))	3.1ub

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

1		
	Measuring Uncertainty for a Level of Confidence	4.8dB
	of 95% (U = 2Uc(y))	4.0UD

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence	5 4 JD
of 95% (U = 2Uc(y))	5.1dB

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