



FCC TEST REPORT

For

Ningbo Everflourish Smart Technology Corp.,Ltd

Multiple cord extension set

Test Model: EMP400WL

Prepared for : Ningbo Everflourish Smart Technology Corp.,Ltd
Address : 77 Wuxiang East Road,Yinzhou,Ningbo,315111,China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing
Street, Baoan District, Shenzhen, China
Tel : (+86)755-82591330
Fax : (+86)755-82591332
Web : www.LCS-cert.com
Mail : webmaster@LCS-cert.com

Date of receipt of test sample : August 23, 2022
Number of tested samples : 2
Serial number : A080222103-1, A080222103-2
Date of Test : August 23, 2022 ~ August 29, 2022
Date of Report : August 30, 2022



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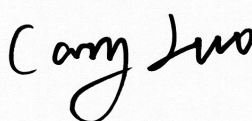
FCC TEST REPORT FCC CFR 47 PART 18	
Report Reference No. : LCSA080222103EA	
Date Of Issue..... : August 30, 2022	
Testing Laboratory Name..... : Shenzhen LCS Compliance Testing Laboratory Ltd.	
Address..... : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing Street, Baoan District, Shenzhen, China	
Testing Location/ Procedure..... : Full application of Harmonised standards ☒ Partial application of Harmonised standards ☐ Other standard testing method ☐	
Applicant's Name..... : Ningbo Everflourish Smart Technology Corp.,Ltd	
Address..... : 77 Wuxiang East Road,Yinzhou,Ningbo,315111,China	
Test Specification	
Standard..... : FCC CFR 47 PART 18	
Test Report Form No..... : LCSEMC-1.0	
TRF Originator..... : Shenzhen LCS Compliance Testing Laboratory Ltd.	
Master TRF..... : Dated 2011-03	
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Test Item Description..... : Multiple cord extension set	
Trade Mark..... : 	
Test Model..... : EMP400WL	
Power Supply..... : 15A, 125V~, 60Hz, Max.1875W, SJT 14AWGx3C Wireless charger Max. 10W USB Input: 100-230VAC, 50/60Hz USB Output Type A+C ports: DC 5.0V, 3.0A, Max.15.0W Type A/C port: DC 5.0V, 3.0A, Max.15.0W DC 9.0V, 2.0A, Max.18.0W DC 12.0V, 1.5A, Max.18.0W	
Result : Positive	

Compiled by:



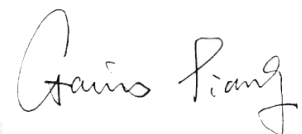
Kevin Huang / Administrators

Supervised by:



Cary Luo / Technique principal

Approved by:



Gavin Liang/ Manager



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**FCC TEST REPORT**

Test Report No. :	LCSA080222103EA	<u>August 30, 2022</u> Date of issue
--------------------------	------------------------	---

Test Model.....	: EMP400WL
EUT.....	: Multiple cord extension set
Applicant.....	: Ningbo Everflourish Smart Technology Corp.,Ltd
Address.....	: 77 Wuxiang East Road,Yinzhou,Ningbo,315111,China
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Ningbo Everflourish Smart Technology Corp.,Ltd
Address.....	: 77 Wuxiang East Road,Yinzhou,Ningbo,315111,China
Telephone.....	: /
Fax.....	: /
Factory.....	: Ningbo Everflourish Smart Technology Corp.,Ltd
Address.....	: 77 Wuxiang East Road,Yinzhou,Ningbo,315111,China
Telephone.....	: /
Fax.....	: /

Test Result	Positive
--------------------	-----------------

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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Revision History

Report Version	Issue Date	Revision Content	Revised By
000	August 30, 2022	Initial Issue	--



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1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT : Multiple cord extension set

Test Model : EMP400WL

Power Supply : 15A, 125V~, 60Hz, Max.1875W, SJT 14AWGx3C
Wireless charger Max. 10W
USB Input: 100-230VAC, 50/60Hz
USB Output Type A+C ports: DC 5.0V, 3.0A, Max.15.0W
Type A/C port: DC 5.0V, 3.0A, Max.15.0W
DC 9.0V, 2.0A, Max.18.0W
DC 12.0V, 1.5A, Max.18.0W

Hardware Version : /

Software Version : /

Wireless Charging :

Operating Frequency : 111~205KHz

Modulation Type : ASK

Antenna Type : Coil Antenna

1.2 Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
HONOR	Mobile phone	V30Pro	66B0219C25014679	FCC
SAMSUNG	Phone	Galaxy S9	R28M12LA7D1	FCC
Huawei	Mobile phone	FRD-AL10	FRD-AL10C00B373	FCC

Note: Auxiliary equipment is provided by the laboratory.

1.3 External I/O Cable

I/O Port Description	Quantity	Cable
USB Port	1	N/A
Type-C Port	1	N/A



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1.4 Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.5 Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Radiation Uncertainty	9KHz~30MHz	3.10dB	(1)
	30MHz~200MHz	2.96dB	(1)
	200MHz~1000MHz	3.10dB	(1)
	1GHz~26.5GHz	3.80dB	(1)
	26.5GHz~40GHz	3.90dB	(1)
Conduction Uncertainty	150kHz~30MHz	1.63dB	(1)
Power disturbance	30MHz~300MHz	1.60dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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1.7 Description of Test Modes

Equipment under test was operated during the measurement under the following conditions:

☒ Charging and communication mode

Modulation Type: ASK

Test Modes		
Mode 1	EUT+ Mobile Phone (Battery Status: <1%)	Record
Mode 2	EUT+ Mobile Phone (Battery Status: <50%)	Pre-tested
Mode 3	EUT + Mobile Phone (Battery Status: 100%)	Pre-tested
Note: All test modes were pre-tested, but we only recorded the worst case in this report.		

For AC conducted emission, pre-test at both AC 120V/60Hz and AC 240V/50Hz, recorded worst case;

For AC conducted emission, pre-test at both AC charge from power adapter and PC modes, recorded worst case.



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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with MP-5, and FCC CFR PART 18.

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT was operated in the charging and compunction mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 18.305 and 18.307 under the FCC Rules Part 18.

2.3 General Test Procedures

2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in FCC MP-5 for Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in FCC MP-5 for radiated emission.



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3. SYSTEM TEST CONFIGURATION

3.1 Justification

The system was configured for testing in a normal condition.

3.2 EUT Exercise Software

N/A.

3.3 Special Accessories

N/A.

3.4 Block Diagram/Schematics

Please refer to the related document.

3.5 Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6 Test Setup

Please refer to the test setup photo.



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4. SUMMARY OF TEST EQUIPMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	MXA Signal Analyzer	Agilent	N9020A	MY49100040	2022-06-16	2023-06-15
2	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2021-11-16	2022-11-15
3	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2022-06-16	2023-06-15
4	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
5	EMI Test Software	AUDIX	E3	/	N/A	N/A
6	EMI Test Receiver	R&S	ESR 7	101181	2022-06-16	2023-06-15
7	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2021-08-29	2024-08-28
8	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-09-12	2024-09-11
9	EMI Test Receiver	R&S	ESPI	101940	2022-08-17	2023-08-16
10	Artificial Mains	R&S	ENV216	101288	2022-06-16	2023-06-15
11	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2022-06-16	2023-06-15
12	EMI Test Software	Farad	EZ	/	N/A	N/A
13	Exposure Level Tester	Narda	ELT-400	N-0713	2021-11-18	2022-11-17
14	B-Field Probe	Narda	ELT-400	M-1154	2021-11-18	2022-11-17



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5. SUMMARY OF TEST RESULT

Test Item	FCC Rule No.	Temperature conditions	Power source conditions	C	NC	NA	NP	Remark
Radiated Emission	§18.305 (b)	Nominal	Nominal	☒	☐	☐	☐	-/-
AC conducted emission	§18.307 (a)	Nominal	Nominal	☒	☐	☐	☐	-/-

Remark: The measurement uncertainty is not included in the test result.

N/A – Not Applicable!!!



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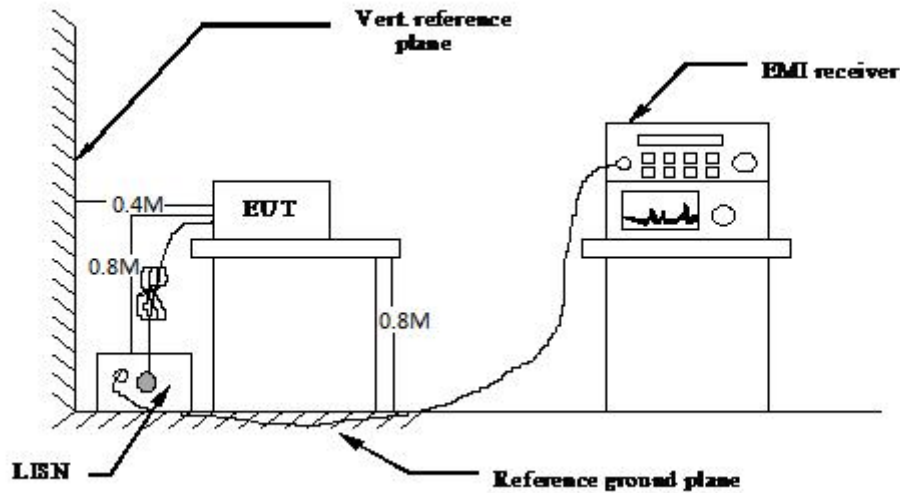
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6. POWER LINE CONDUCTED MEASUREMENT

6.1. Block Diagram of Test Setup



6.2. Standard Applicable

According to §18.307 (b): For all other part 18 consumer devices which 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 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

* Decreasing linearly with the logarithm of the frequency

6.3 Test Results

PASS

The test data please refer to following page.

Temperature	23.2°C	Humidity	53.5%
Test Engineer	Monkey Li	Configurations	Transmit



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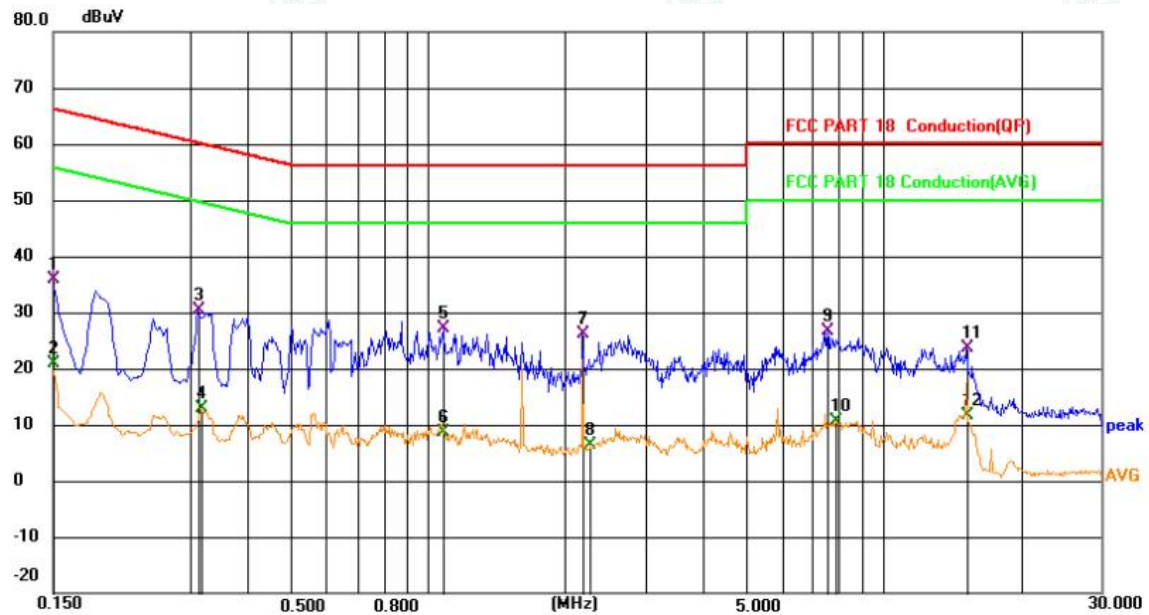
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**AC Power Line Conducted Emission (@ AC 120V/60Hz (Worst Case))**

Line



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	
		MHz	Level	Factor	ment			Detector
1		0.1500	29.99	5.88	35.87	66.00	-30.13	QP
2		0.1500	14.91	5.88	20.79	56.00	-35.21	AVG
3		0.3121	24.46	5.88	30.34	59.91	-29.57	QP
4		0.3166	7.11	5.88	12.99	49.80	-36.81	AVG
5	*	1.0770	21.37	5.88	27.25	56.00	-28.75	QP
6		1.0859	2.65	5.88	8.53	46.00	-37.47	AVG
7		2.1885	20.15	5.87	26.02	56.00	-29.98	QP
8		2.2785	0.60	5.87	6.47	46.00	-39.53	AVG
9		7.5301	20.80	5.83	26.63	60.00	-33.37	QP
10		7.8631	4.81	5.83	10.64	50.00	-39.36	AVG
11		15.1891	17.91	5.81	23.72	60.00	-36.28	QP
12		15.2386	5.80	5.81	11.61	50.00	-38.39	AVG



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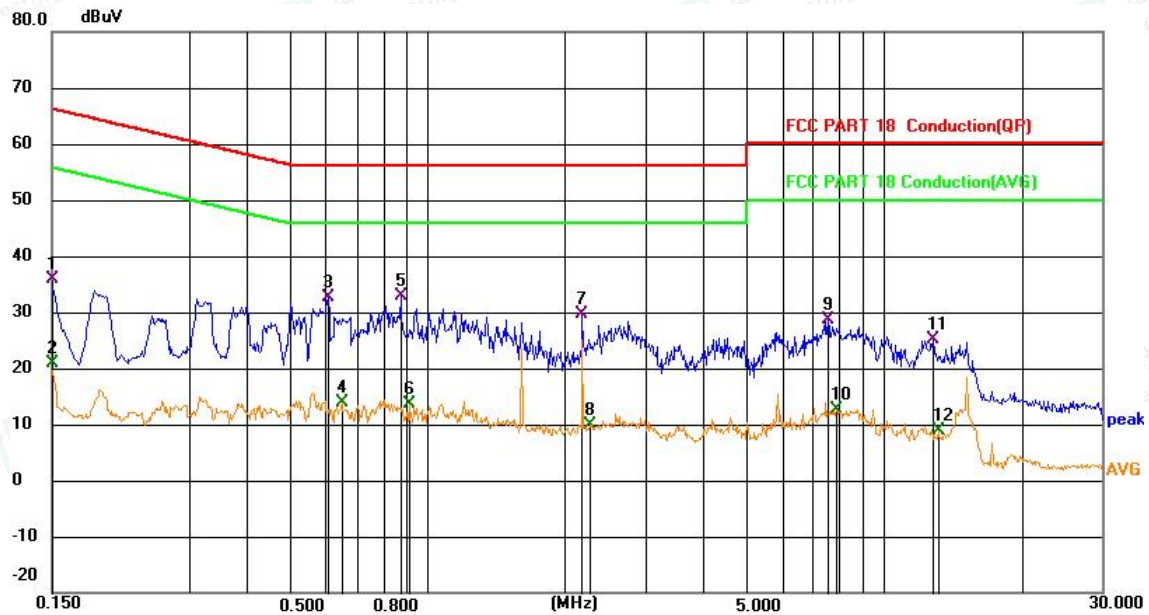
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Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector
1		0.1500	29.99	5.88	35.87	66.00	-30.13	QP
2		0.1500	14.91	5.88	20.79	56.00	-35.21	AVG
3		0.6045	26.65	5.88	32.53	56.00	-23.47	QP
4		0.6493	8.00	5.88	13.88	46.00	-32.12	AVG
5	*	0.8745	27.00	5.88	32.88	56.00	-23.12	QP
6		0.9103	7.66	5.88	13.54	46.00	-32.46	AVG
7		2.1884	23.65	5.87	29.52	56.00	-26.48	QP
8		2.2785	4.10	5.87	9.97	46.00	-36.03	AVG
9		7.5301	22.80	5.83	28.63	60.00	-31.37	QP
10		7.8631	6.81	5.83	12.64	50.00	-37.36	AVG
11		12.8221	19.40	5.81	25.21	60.00	-34.79	QP
12		13.1549	3.06	5.81	8.87	50.00	-41.13	AVG

***Note: Pre-scan all modes and recorded the worst case results in this report.



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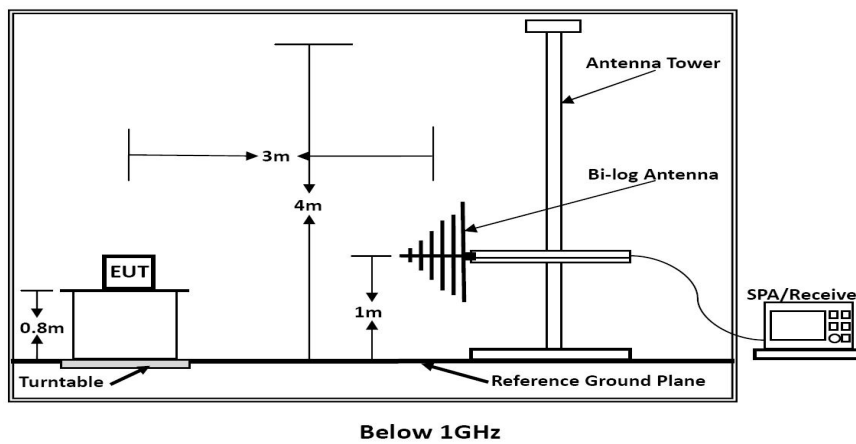
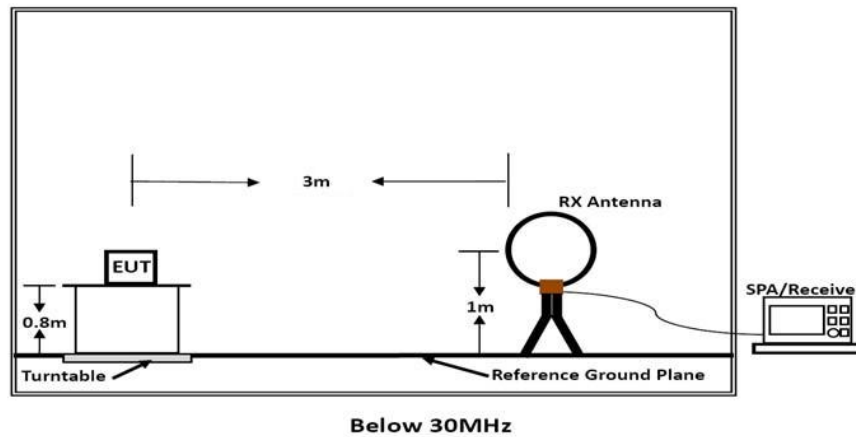
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7. RADIATED EMISSION MEASUREMENT

7.1. Block Diagram of Test Setup



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7.2. Radiated Emission Limit

Except as provided elsewhere in this Subpart 18.305 (b), the field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following table:

Frequency MHz	Distance Meters	Field Strengths Limit	
		dB μ V/m	Remark
0.009~30MHz	3	103.5	Quasi-peak
30~88	3	40.0	Quasi-peak
88~216	3	43.5	Quasi-peak
216~960	3	46.0	Quasi-peak
960~1000	3	54.0	Quasi-peak

Remark:

- (1) Emission level dB μ V/m for 0.009~30MHz = 20log (25) + 40log (300/3) dB μ V/m;
- (2) Calculated according FCC 18.305.
- (3) The smaller limit shall apply at the cross point between two frequency bands.
- (4) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

7.3. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.4. Operating Condition of EUT

- (1) Setup the EUT as shown in Section 4.1.
- (2) Let the EUT work in worst test mode (Mode 1) and measure it.

7.5. Measuring Setting

The following table is the setting of spectrum analyzer and receiver.

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP/Average
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP/Average
Start ~ Stop Frequency	30MHz~1000MHz / RB 100kHz for QP



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7.6. Test Procedure

1) Sequence of testing 9 kHz to 30 MHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna height is 1.0 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.



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2) Sequence of testing 30 MHz to 1 GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 to 3 meter.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^\circ$) and antenna movement between 1 and 4 meter.
- The final measurement will be done with QP detector with an EMI receiver.
- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

7.7. Test Results

PASS.

Only report the worst test data (Mode 1) in test report;

The test data please refer to following page:

Temperature	23.8°C	Humidity	52.5%
Test Engineer	Monkey Li	Configurations	Transmit



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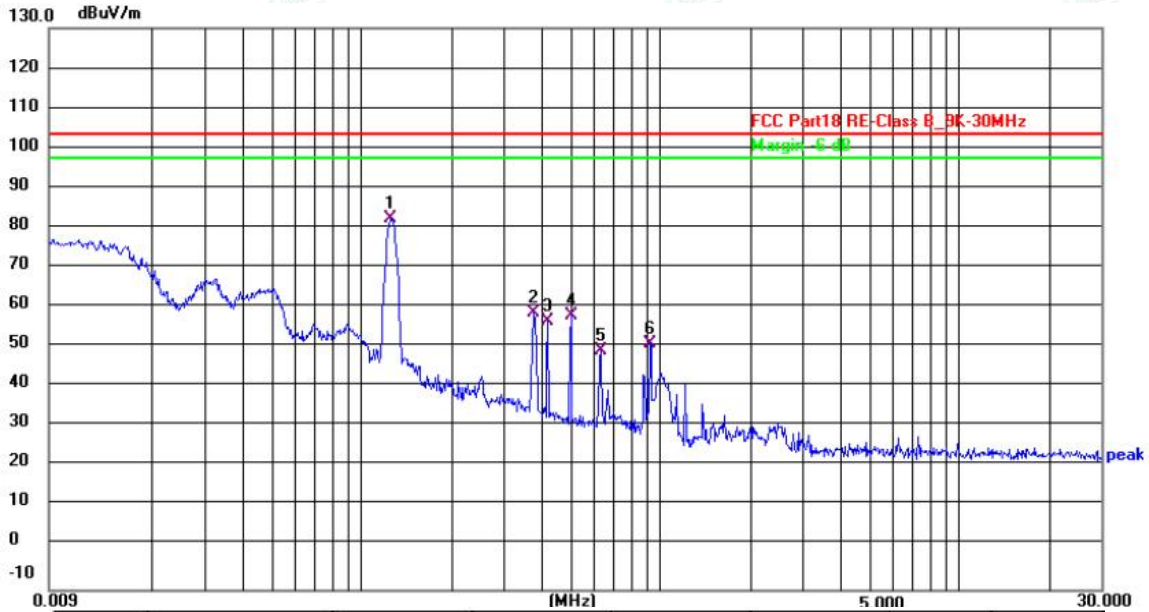
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0.009 MHz – 30 MHz

0°



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1255	92.09	-9.48	82.61	103.50	-20.89	QP
2	0.3785	67.74	-8.76	58.98	103.50	-44.52	QP
3	0.4208	65.60	-8.68	56.92	103.50	-46.58	QP
4	0.5030	66.81	-8.54	58.27	103.50	-45.23	QP
5	0.6311	57.97	-8.20	49.77	103.50	-53.73	QP
6	0.9242	58.91	-7.45	51.46	103.50	-52.04	QP



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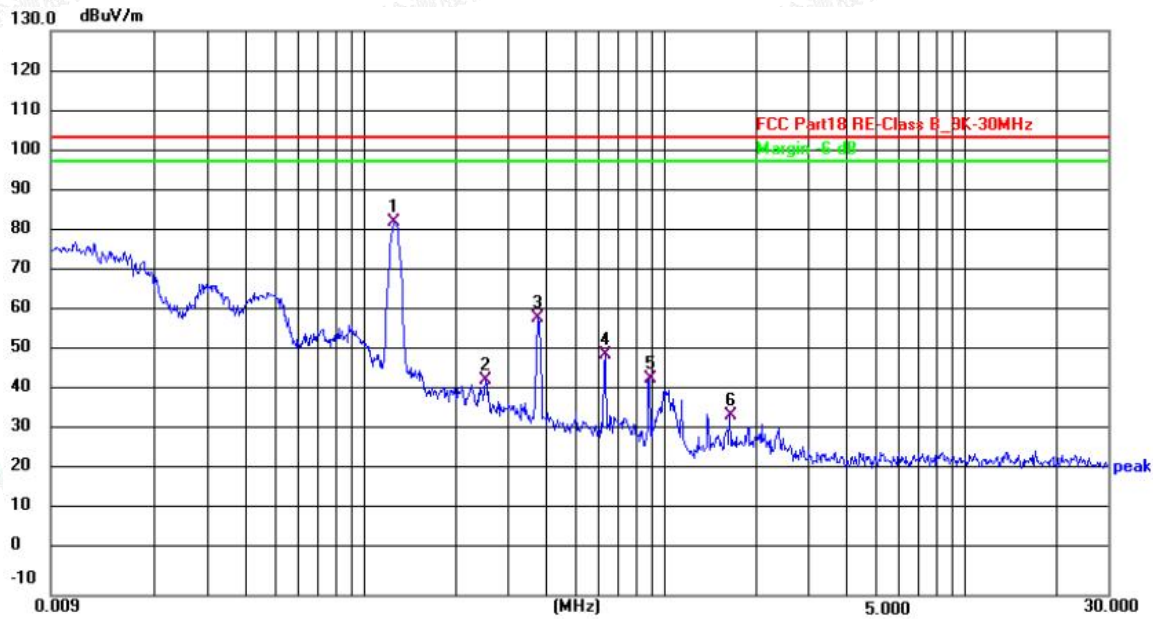
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90°



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.1255	92.02	-9.48	82.54	103.50	-20.96	QP
2	0.2524	52.24	-9.00	43.24	103.50	-60.26	QP
3	0.3785	67.67	-8.76	58.91	103.50	-44.59	QP
4	0.6310	57.78	-8.20	49.58	103.50	-53.92	QP
5	0.8873	51.23	-7.54	43.69	103.50	-59.81	QP
6	1.6439	40.75	-6.04	34.71	103.50	-68.79	QP

Remark: 1). Measured at antenna position 0 degree and 90 degree.

2). Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.



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**Below 1GHz**

Temperature	23.8℃	Humidity	52.1%
Test Engineer	Monkey Li	Configurations	Transmit

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	32.4059	35.71	-18.13	17.58	40.00	-22.42	QP
2	61.7780	36.10	-18.97	17.13	40.00	-22.87	QP
3	114.5146	42.01	-19.46	22.55	43.50	-20.95	QP
4	165.4866	40.32	-19.60	20.72	43.50	-22.78	QP
5	276.1235	34.39	-15.37	19.02	46.00	-26.98	QP
6	590.9737	29.74	-10.58	19.16	46.00	-26.84	QP



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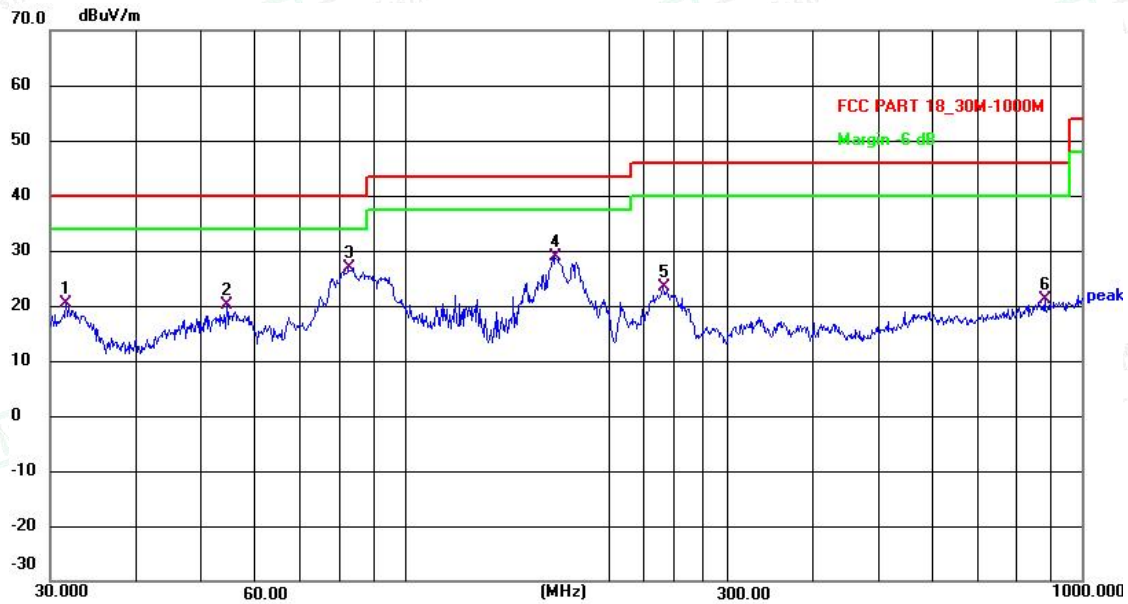
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Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	31.6201	38.73	-18.25	20.48	40.00	-19.52	QP
2	54.6428	38.04	-17.89	20.15	40.00	-19.85	QP
3	82.6481	46.46	-19.62	26.84	40.00	-13.16	QP
4	166.6513	48.45	-19.58	28.87	43.50	-14.63	QP
5	240.8303	39.39	-16.02	23.37	46.00	-22.63	QP
6	881.4067	29.72	-8.59	21.13	46.00	-24.87	QP

1). Emission level (dBuV/m) = 20 log Emission level (uV/m).

2). Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.



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8. PHOTOGRAPHS OF TEST SETUP

Please refer to separated files for Test Setup Photos of the EUT.

9. EXTERNAL PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

10. INTERNAL PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF REPORT-----



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