

FCC TEST REPORT
For
TennRich International Corp.
Power Bank
Test Model: QE10012PQ

Prepared for	:	TennRich International Corp.
Address	:	1-3, Alley 5, Lane 305, Sec 1, Shin Nan Road, Lu Chu District, Taoyuan City, Taiwan 338
Prepared by	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample	:	October 15, 2020
Number of tested samples	:	1
Serial number	:	Prototype
Date of Test	:	October 19, 2020 ~ October 28, 2020
Date of Report	:	October 30, 2020

FCC TEST REPORT

FCC CFR 47 PART 18

Report Reference No. : **LCS201009163AEA**

Date Of Issue..... : October 30, 2020

Testing Laboratory Name..... : **Shenzhen LCS Compliance Testing Laboratory Ltd.**

Address..... : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,
Shajing Street, Baoan District, Shenzhen, 518000, China

Testing Location/ Procedure..... : Full application of Harmonised standards ☒
Partial application of Harmonised standards ☐
Other standard testing method ☐

Applicant's Name..... : **TennRich International Corp.**

Address..... : 1-3, Alley 5, Lane 305, Sec 1, Shin Nan Road, Lu Chu District,
Taoyuan City, Taiwan 338

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..... : **Power Bank**

Trade Mark..... : Energizer

Test Model..... : QE10012PQ

Power Supply..... : Please Refer to Page 6

Result : **Positive**

Compiled by:



Jack Liu/ Administrators

Supervised by:



Jin Wang/ Technique principal

Approved by:



Gavin Liang/ Manager

FCC TEST REPORT

Test Report No. : LCS201009163AEA	<u>October 30, 2020</u> Date of issue
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Test Model.....	: QE10012PQ
EUT.....	: Power Bank
Applicant.....	: TennRich International Corp.
Address.....	: 1-3, Alley 5, Lane 305, Sec 1, Shin Nan Road, Lu Chu District, Taoyuan City, Taiwan 338
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Guangdong Gadmei Intelligent Technology Co., Ltd.
Address.....	: Uniture Industry Park, Yinzhan, Qingyuan City, Guangdong Province, China.
Telephone.....	: /
Fax.....	: /
Factory.....	: Guangdong Gadmei Intelligent Technology Co., Ltd.
Address.....	: Uniture Industry Park, Yinzhan, Qingyuan City, Guangdong Province, China.
Telephone.....	: /
Fax.....	: /

Test Result	Positive
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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.

Revision History

Revision	Issue Date	Revisions	Revised By
000	October 30, 2020	Initial Issue	Gavin Liang

TABLE OF CONTENTS

1. GENERAL INFORMATION.....	6
1.1 Description of Device (EUT).....	6
1.2 Support equipment List.....	6
1.3 External I/O Cable.....	6
1.4 Description of Test Facility.....	7
1.5 Statement of the Measurement Uncertainty.....	7
1.6 Measurement Uncertainty.....	7
1.7 Description of Test Modes.....	8
2. TEST METHODOLOGY.....	9
2.1 EUT Configuration.....	9
2.2 EUT Exercise.....	9
2.3 General Test Procedures.....	9
2.3.1 Conducted Emissions.....	9
2.3.2 Radiated Emissions.....	9
3. SYSTEM TEST CONFIGURATION.....	10
3.1 Justification.....	10
3.2 EUT Exercise Software.....	10
3.3 Special Accessories.....	10
3.4 Block Diagram/Schematics.....	10
3.5 Equipment Modifications.....	10
3.6 Test Setup.....	10
4. SUMMARY OF TEST EQUIPMENT.....	11
5. SUMMARY OF TEST RESULT.....	12
6. POWER LINE CONDUCTED MEASUREMENT.....	12
7. RADIATED EMISSION MEASUREMENT.....	16
7.1. Block Diagram of Test Setup.....	16
7.2. Radiated Emission Limit.....	17
7.3. EUT Configuration on Measurement.....	17
7.4. Operating Condition of EUT.....	17
7.5. Measuring Setting.....	17
7.6. Test Procedure.....	18
7.7. Test Results.....	19
8. PHOTOGRAPHS OF TEST SETUP.....	23
9. EXTERNAL PHOTOGRAPHS OF THE EUT.....	23
10. INTERNAL PHOTOGRAPHS OF THE EUT.....	23

1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT : Power Bank

Test Model : QE10012PQ

Power Supply : Battery Capacity: 10000mAh/ 38.5Wh (Max.)
 Contact Input : 5V=2.1A, 9V=2A
 Rated Input: Micro USB 5V=2.1A, 9V=2A
 Rated Input: USB-C PD 5V=2.4A, 9V=2A
 Rated Output: USB A 5V=3A, 9V=2A, 12V=1.5A
 Rated Output: USB-C PD 5V=3A, 9V=2A, 12V=1.5A
 USB Total Output: 18W (Max.)
 Wireless Output : 5W/ 7.5W/ 10W (Max.)

Hardware Version : TW103PD-POGO_V1.6+TW103_054f_V1.1

Software Version : BJX-02-1388-V1.3 0xC36E 4203 FFCB

Wireless Charging :

Operating Frequency : 110.0~205.0KHz

Modulation Type : Continuous Wave

Antenna Type : Coil Antenna

1.2 Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
GuangDong Gadmei Intelligent Technology Co., Ltd.	Charging Dock	QE10012PQ	--	SDOC
OPPO	Adapter	OP52KAUH	---	SDOC

1.3 External I/O Cable

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

1.4 Description of Test Facility

FCC Registration Number is 254912.

Industry Canada Registration Number is 9642A.

EMSD Registration Number is ARCB0108.

UL Registration Number is 100571-492.

TUV SUD Registration Number is SCN1081.

TUV RH Registration Number is UA 50296516-001.

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier: CN0071

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.

1.7 Description of Test Modes

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

☒ Charging and communication mode

Modulation Type: CW (Continuous Wave)

Test Modes:		
Mode 1	AC/DC Adapter + EUT + Mobile Phone iPhone X (Battery Status: <1%)	Record
Mode 2	AC/DC Adapter + EUT + Mobile Phone iPhone X (Battery Status: <50%)	Pre-tested
Mode 3	AC/DC Adapter + EUT + Mobile Phone iPhone X (Battery Status: 100%)	Pre-tested
Mode 4	Charge from PC + EUT + Mobile Phone iPhone X (Battery Status: <1%)	Pre-tested
Mode 5	Charge from PC + EUT + Mobile Phone iPhone X (Battery Status: <50%)	Pre-tested
Mode 6	Charge from PC + EUT + Mobile Phone iPhone X (Battery Status: 100%)	Pre-tested
Mode 7	EUT + Mobile Phone (Battery Status: <1%)	Pre-tested
Mode 8	EUT + Mobile Phone (Battery Status: <50%)	Pre-tested
Mode 9	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.

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.

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.

4. SUMMARY OF TEST EQUIPMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	MXA Signal Analyzer	Agilent	N9020A	MY49100040	2020-06-11	2021-06-10
2	SPECTRUM ANALYZER	R&S	FSP40	100503	2019-11-14	2020-11-13
3	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2020-08-05	2021-08-05
4	Positioning Controller	MF	MF-7082	/	2020-06-12	2021-06-11
5	EMI Test Software	AUDIX	E3	/	N/A	N/A
6	EMI Test Receiver	R&S	ESR 7	101181	2020-06-12	2021-06-11
7	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2018-07-26	2021-07-25
8	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2018-07-26	2021-07-25
9	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2018-07-02	2021-07-01
10	RF Cable-R03m	Jye Bao	RG142	CB021	2020-06-12	2021-06-11
11	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2020-06-12	2021-06-11
12	EMI Test Receiver	R&S	ESCI	101010	2020-06-28	2021-06-27
13	Artificial Mains	R&S	ENV216	101288	2020-06-12	2021-06-11
14	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2020-06-11	2021-06-10

Note: All equipment is calibrated through CHINA CEPREI LABORATORY and GUANGZHOU LISAI CALIBRATION AND TEST CO., LTD.

5. SUMMARY OF TEST RESULT

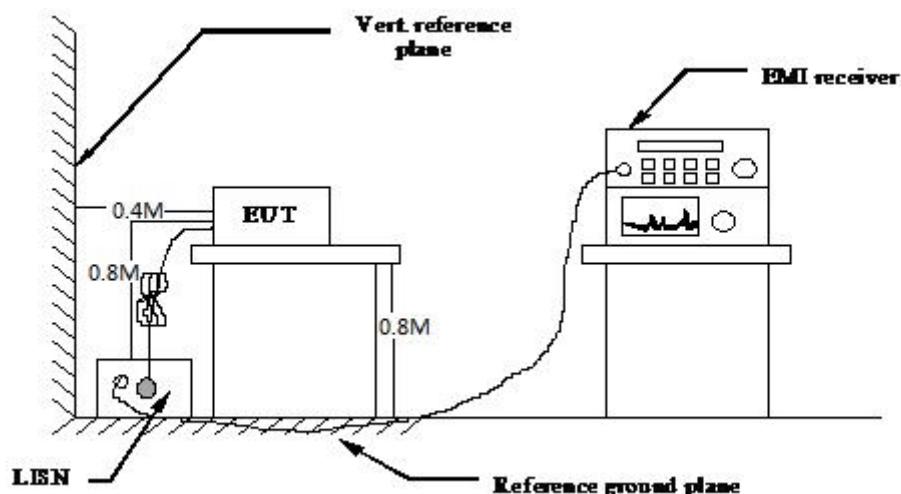
Test Item	FCC Rule No.	Temperature conditions	Power source conditions	C	NC	NA	NP	Remark
Radiated Emission	§18.305 (b)	Nominal	Nominal	☒	☐	☐	☐	-/-
AC conducted emission	§18.307 (a)	Nominal	Nominal	☒	☐	☐	☐	-/-

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

N/A – Not Applicable!!!

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 (dBμV)	
	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

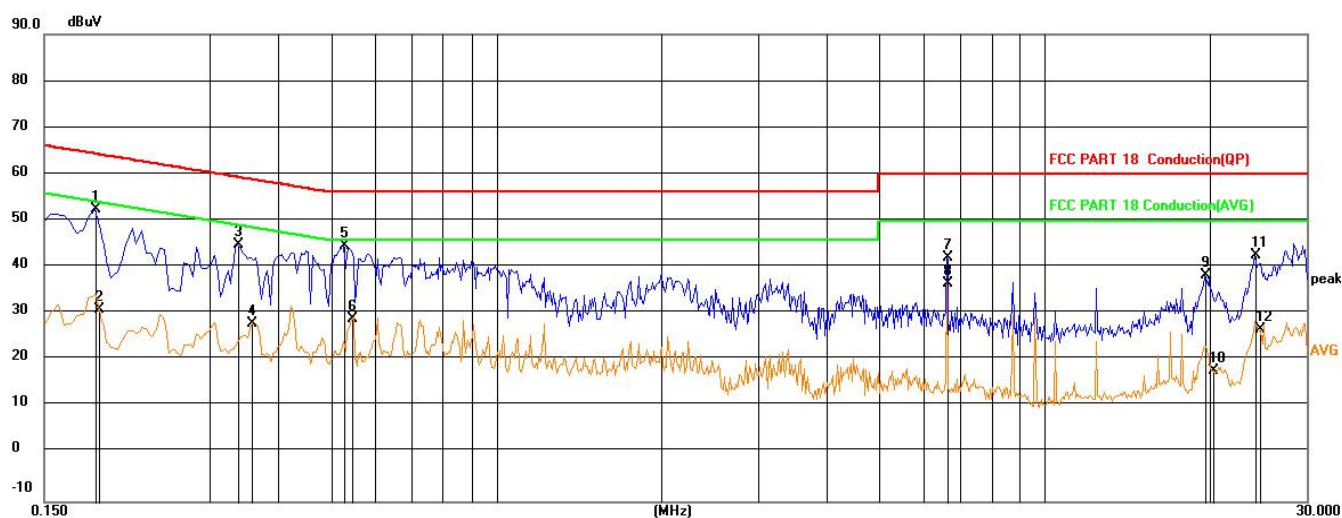
PASS

The test data please refer to following page.

Temperature	23.3°C	Humidity	53.7%
Test Engineer	Jenny Wu	Configurations	Transmit

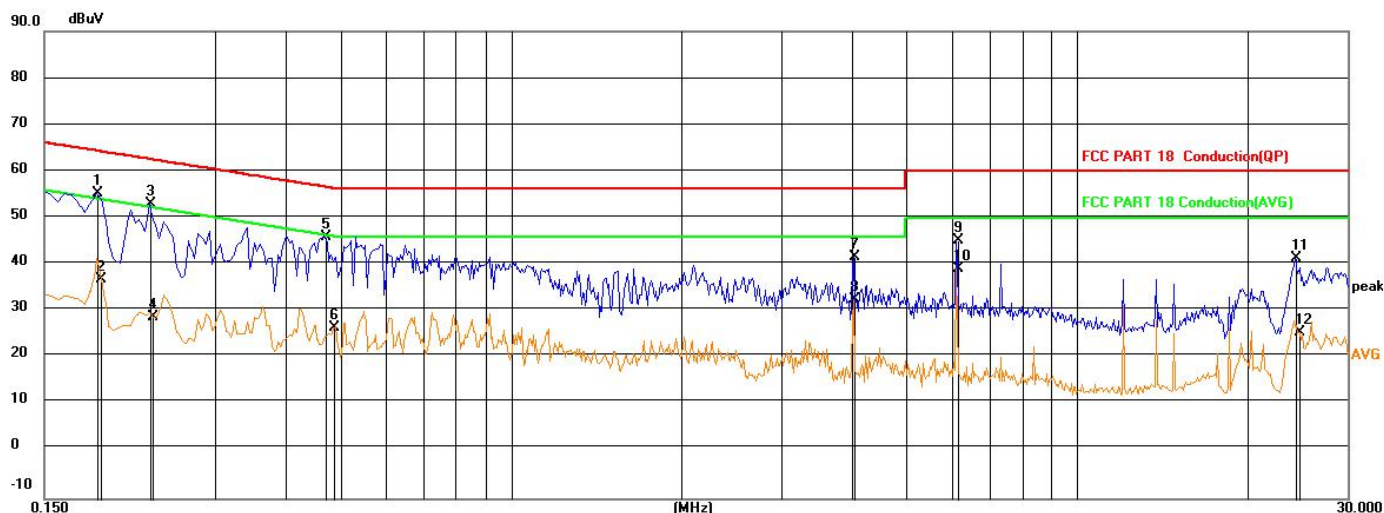
AC Power Line Conducted Emission (Power input to adapter @ AC 120V/60Hz (Worst Case))

Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1859	33.48	19.17	52.65	64.22	-11.57	QP
2	0.1892	11.96	19.17	31.13	54.07	-22.94	AVG
3	0.3390	25.77	19.30	45.07	59.23	-14.16	QP
4	0.3594	8.75	19.31	28.06	48.74	-20.68	AVG
5	0.5279	25.41	19.32	44.73	56.00	-11.27	QP
6	0.5463	9.88	19.32	29.20	46.00	-16.80	AVG
7	6.6435	22.76	19.56	42.32	60.00	-17.68	QP
8	6.6435	17.16	19.56	36.72	50.00	-13.28	AVG
9	19.6259	18.20	20.30	38.50	60.00	-21.50	QP
10	20.2469	-2.17	20.30	18.13	50.00	-31.87	AVG
11	24.2474	22.54	20.24	42.78	60.00	-17.22	QP
12	24.5940	6.56	20.24	26.80	50.00	-23.20	AVG

Neutral



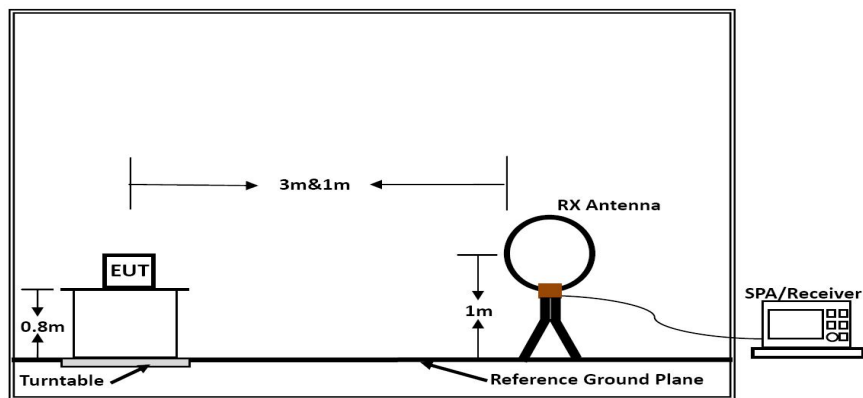
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1859	36.26	19.17	55.43	64.22	-8.79	QP
2	0.1892	17.88	19.17	37.05	54.07	-17.02	AVG
3	0.2310	33.78	19.21	52.99	62.41	-9.42	QP
4	0.2340	9.77	19.21	28.98	52.31	-23.33	AVG
5	0.4694	26.78	19.31	46.09	56.52	-10.43	QP
6	0.4874	7.26	19.31	26.57	46.21	-19.64	AVG
7	4.0289	22.26	19.46	41.72	56.00	-14.28	QP
8	4.0289	13.20	19.46	32.66	46.00	-13.34	AVG
9	6.1304	25.79	19.54	45.33	60.00	-14.67	QP
10	6.1304	19.67	19.54	39.21	50.00	-10.79	AVG
11	24.3329	21.29	20.11	41.40	60.00	-18.60	QP
12	24.5895	5.60	20.12	25.72	50.00	-24.28	AVG

***Note:

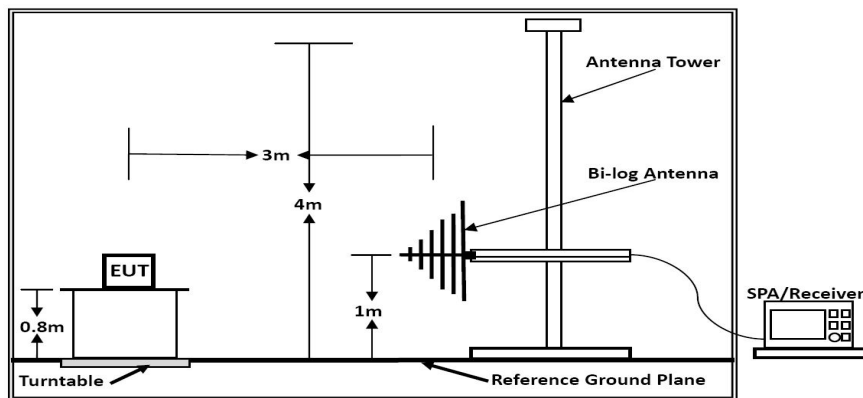
- 1). Pre-scan all modes and recorded the worst case results in this report (Mode 1).
- 2). $Result = Reading + Correct$, $Margin = Result - Limit$.

7. RADIATED EMISSION MEASUREMENT

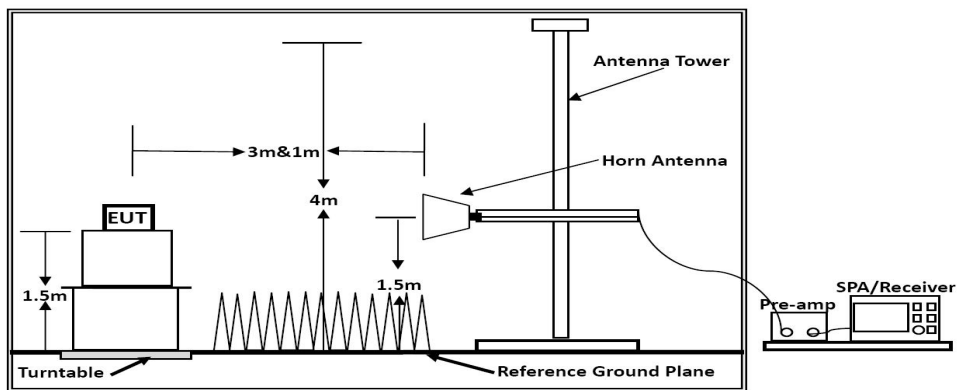
7.1. Block Diagram of Test Setup



Below 30MHz



Below 1GHz



Above 1GHz

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	103.52	Quasi-peak

Remark:

- (1) Emission level dB μ V/m for 0.009~30MHz = $20\log(15) + 40\log(300/3)$ 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

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 0.8 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.

2) Sequence of testing 30 MHz to 1 GHz (Not required)**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.

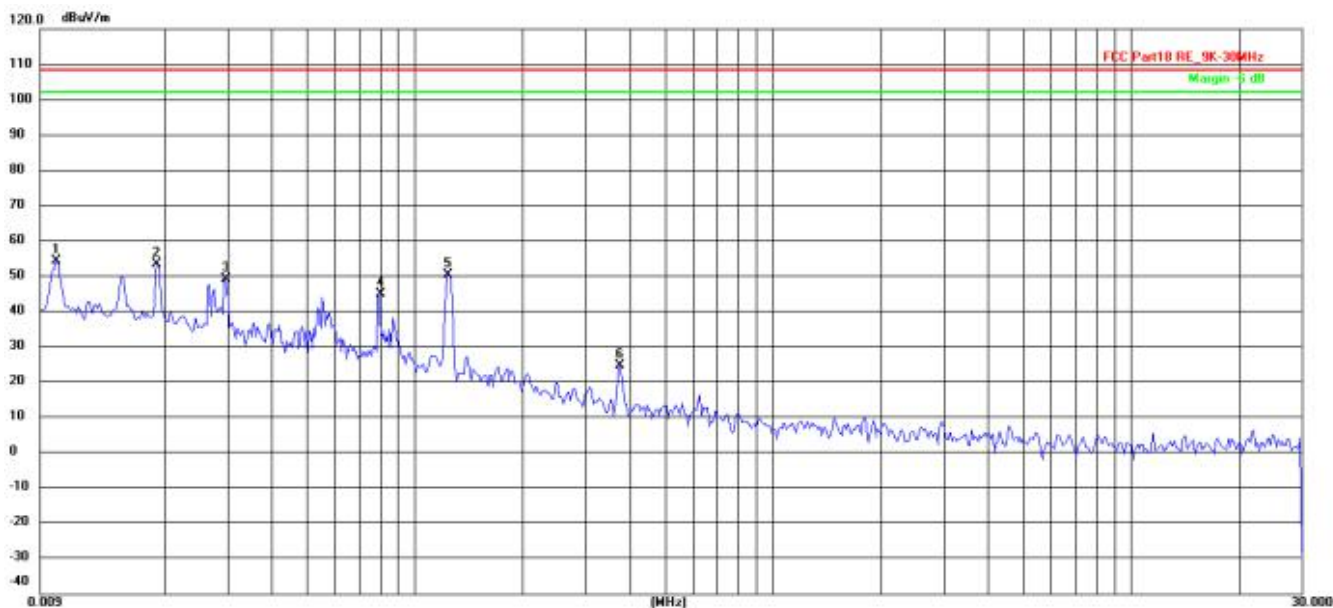
7.7. Test Results

PASS.

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

The test data please refer to following page:

Temperature	24.6°C	Humidity	54.1%
Test Engineer	Jenny Wu	Configurations	Transmit



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1 *	0.0100	84.49	-30.00	54.49	103.52	-49.03	QP
2	0.0191	83.31	-30.00	53.31	103.52	-50.21	QP
3	0.0297	79.32	-30.00	49.32	103.52	-54.20	QP
4	0.0798	75.02	-30.00	45.02	103.52	-58.50	QP
5	0.1246	80.48	-30.00	50.48	103.52	-53.04	QP
6	0.3756	54.54	-29.69	24.85	103.52	-78.67	QP

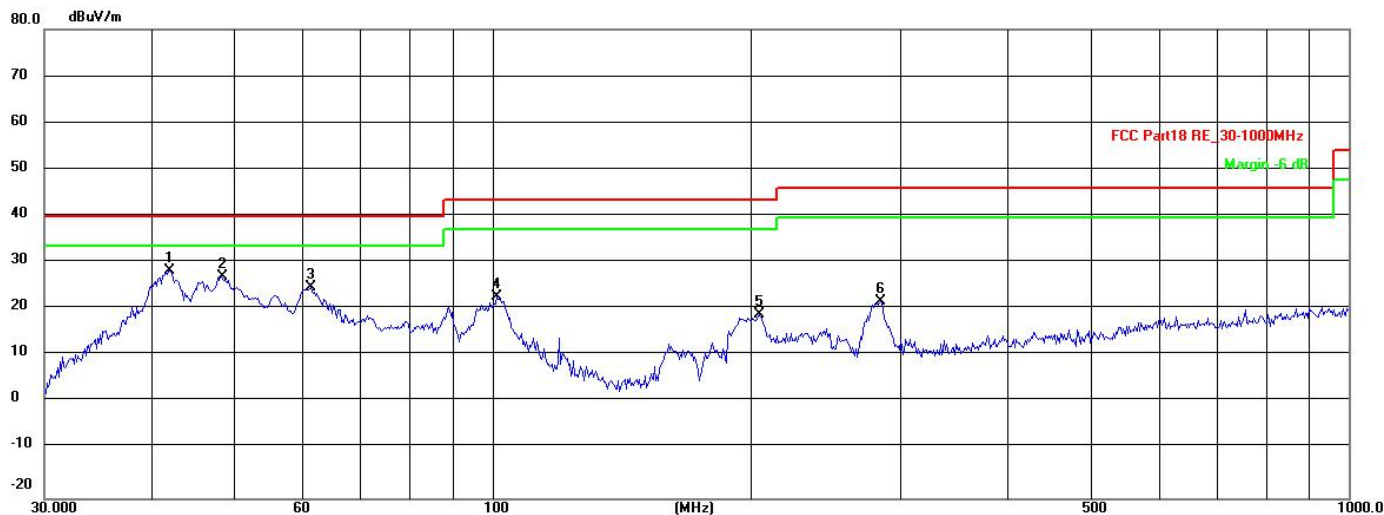
***Note:

1. Final Measurement Level = Reading + Correct Factor.
2. Measured at antenna position 0 degree and 90 degree, recorded worst case at 90 degree.

Temperature	24.6℃	Humidity	54.1%
Test Engineer	Jenny Wu	Configurations	Transmit

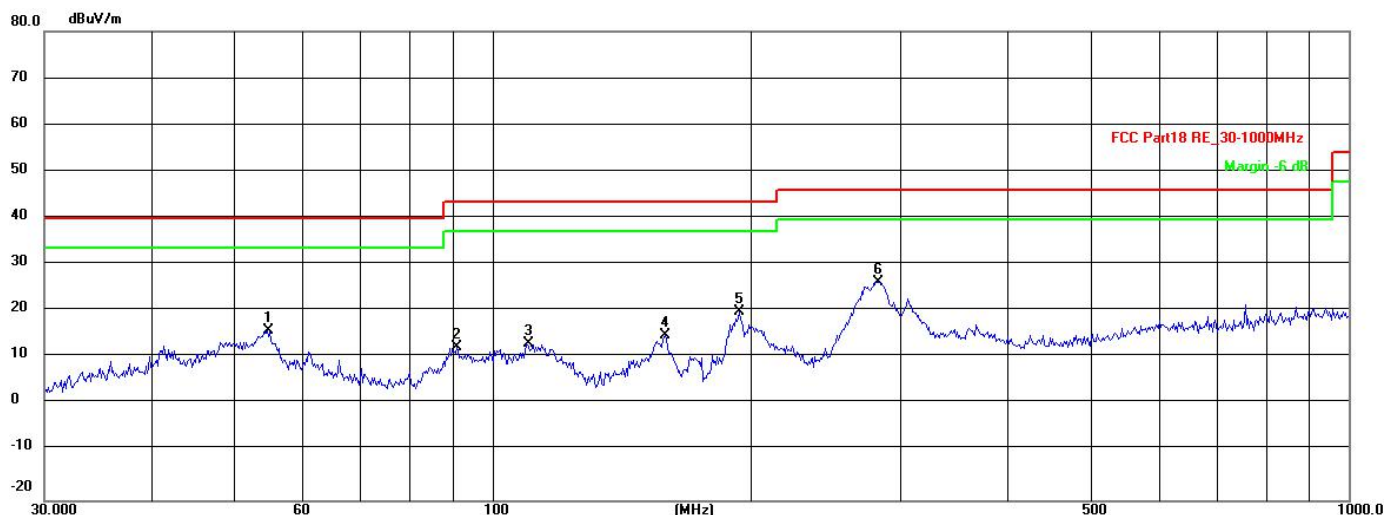
Below 1GHz

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1 *	41.8596	44.76	-16.08	28.68	40.00	-11.32	QP
2	48.3318	42.96	-15.59	27.37	40.00	-12.63	QP
3	61.3463	42.45	-17.27	25.18	40.00	-14.82	QP
4	101.2885	40.61	-17.46	23.15	43.50	-20.35	QP
5	204.9551	36.57	-17.35	19.22	43.50	-24.28	QP
6	283.9791	37.50	-15.39	22.11	46.00	-23.89	QP

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	54.6429	32.48	-16.17	16.31	40.00	-23.69	QP
2	90.8554	31.83	-19.13	12.70	43.50	-30.80	QP
3	109.7960	31.45	-17.89	13.56	43.50	-29.94	QP
4	159.2251	36.24	-21.01	15.23	43.50	-28.27	QP
5	194.4534	38.54	-18.17	20.37	43.50	-23.13	QP
6 *	281.0075	42.12	-15.44	26.68	46.00	-19.32	QP

***Note:

- 1). Pre-scan all modes and recorded the worst case results in this report (Mode 2).
- 2). Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3). Level = Reading + Factor, Margin = Level - Limit,
Factor = Antenna Factor + Cable Loss - Preamp Factor

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.

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