



Radio Test Report

Report No.: STS2512385W01

Issued for

WELLPOWER (shenzhen) electronics co.,LTD

2002, 20/F, Block C, Bairuida Building, Vanke City
Community, Bantian Street, Longgang District, Shenzhen,
China

Product Name: Li-ion Power Bank

Brand Name:



W&P/微尔普

Model Name: Q16

Series Model(s): N/A

FCC ID: 2BMUE-Q16

Test Standards: FCC Part 15 Subpart C

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT**

Applicant's Name.....: WELLPOWER (shenzhen) electronics co.,LTD

Address: 2002, 20/F, Block C, Bairuida Building, Vanke City Community,
Bantian Street, Longgang District, Shenzhen, China

Manufacturer's Name.....: Shenzhen JUMI Technology Co. Ltd.

Address: 5A, Building K, Fengzhimei Industrial Park, Huangdong, Fenggang
Town, Dongguan City, Guangdong Province

Product Description

Product Name.....: Li-ion Power Bank

Brand.....: 

Model Number: Q16

Series Model(s).....: N/A

Test Standards: FCC Part 15 Subpart C

Test Procedure: ANSI C63.10-2020

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

Date of Test

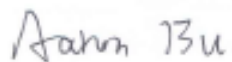
Date of receipt of test item.....: 03 Dec. 2025

Date (s) of performance of tests.: 03 Dec. 2025 to 19 Dec. 2025

Date of Issue.....: 19 Dec. 2025

Test Result.....: **Pass**

Testing Engineer :



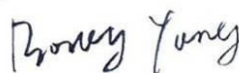
(Aaron Bu)

Technical Manager :



(Skylar Li)

Authorized Signatory :



(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	19 Dec. 2025	STS2512385W01	ALL	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.209(a)	Radiated emission, Spurious Emission	PASS	
2.1049	20 dB Bandwidth	PASS	
15.203	Antenna Requirement	PASS	

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95** %.

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.755\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.874\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 3.80\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 4.18\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 4.90\text{dB}$
6	All emissions, radiated >6G	$\pm 5.24\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.19\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.53\text{dB}$
9	Occupied Channel Bandwidth	$\pm 3.5\%$
10	Power Spectral Density, conducted	$\pm 1.245\text{dB}$
11	Duty Cycle	$\pm 3.2\%$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Li-ion Power Bank
Brand	 W&P/微尔普
Model Number	Q16
Series Model(s)	N/A
Model Difference	N/A
Equipemnt Category	Non-ISM frequency
Antenna Type	loop coil antenna
Operating frequency	300-350kHz
Modulation Type	ASK
Power Rating	Type C Port/Cable Input: DC 5V/3A, DC 9V/2A, DC 12V/1.5A Type C Port/cable Output: DC 5V/3A, DC 9V/3A, DC 12V/2.91A, DC 15V/2.33A, DC 20V/1.75A iWatch wireless Output: 2.5W Total Output: DC 5V/3A Battery: DC 7.7V
Adapter	N/A
Battery	DC 7.7V
Wireless charging power	2.5W
Hardware version number	N/A
Software version number	N/A
Connecting I/O Port(s)	Please refer to the Note 1.

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	NOTE
1	N/A	N/A	Coil	N/A	Antenna



2.2 DESCRIPTION OF THE TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Charging+2.5W
Mode 2	2.5W

For Conducted Emission	
Final Test Mode	Description
Mode 1	Charging+2.5W

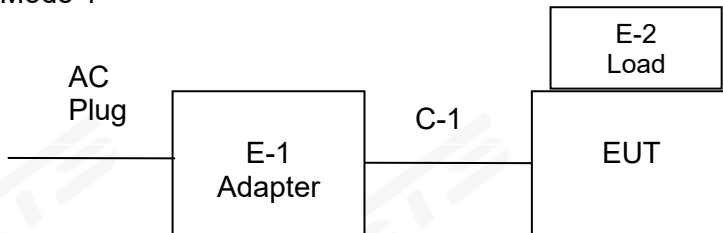
For Radiated Emission	
Final Test Mode	Description
Mode 1	Charging+2.5W
Mode 2	2.5W



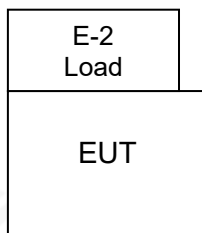
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Radiated Emission Test Mode 1

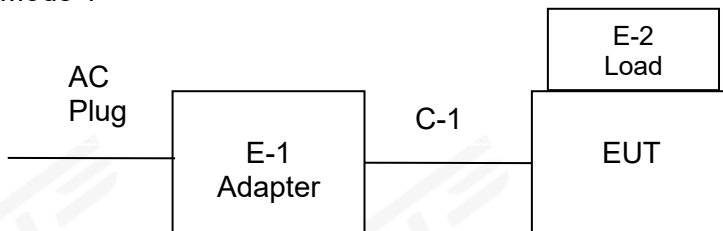


Mode 2



Conducted Emission Test

Mode 1





2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	Adapter	ZTC	NB-A515A	N/A
E-2	Load	N/A	N/A	N/A
C-1	DC Cable	N/A	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	0.8m	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2025.09.25	2026.09.24
Signal Analyzer	R&S	FSV 40-N	101823	2025.09.26	2026.09.25
Active loop Antenna	ZHINAN	ZN30900C	16035	2025.02.25	2026.02.24
Bilog Antenna	TESEQ	CBL6111D	34678	2025.09.27	2027.09.26
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2025.02.22	2026.02.21
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2025.09.25	2026.09.24
Limtter	CYBERTEK	EM5010	N/A	2025.09.25	2026.09.24
LISN	R&S	ENV216	101242	2025.09.25	2026.09.24
LISN	EMCO	3810/2NM	23625	2025.09.25	2026.09.24
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51510623	2025.02.22	2026.02.21
Power detector group	Keysight	NW2021031	N/A	2025.09.23	2026.09.22
Switch control box	MW	MW100-RFCB	N/A	N/A	N/A
Temperature& Humidity test chamber	Safety test	AG80L	171200018	2025.02.22	2026.02.21
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Test SW	MW	MTS 8310_2.0.0.0			



3. CONDUCTED EMISSION TEST RESULT (SECTION 15.207)

3.1 POWER LINE CONDUCTED EMISSION LIMITS

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.

FREQUENCY (MHz)	Class B (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of “*” marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

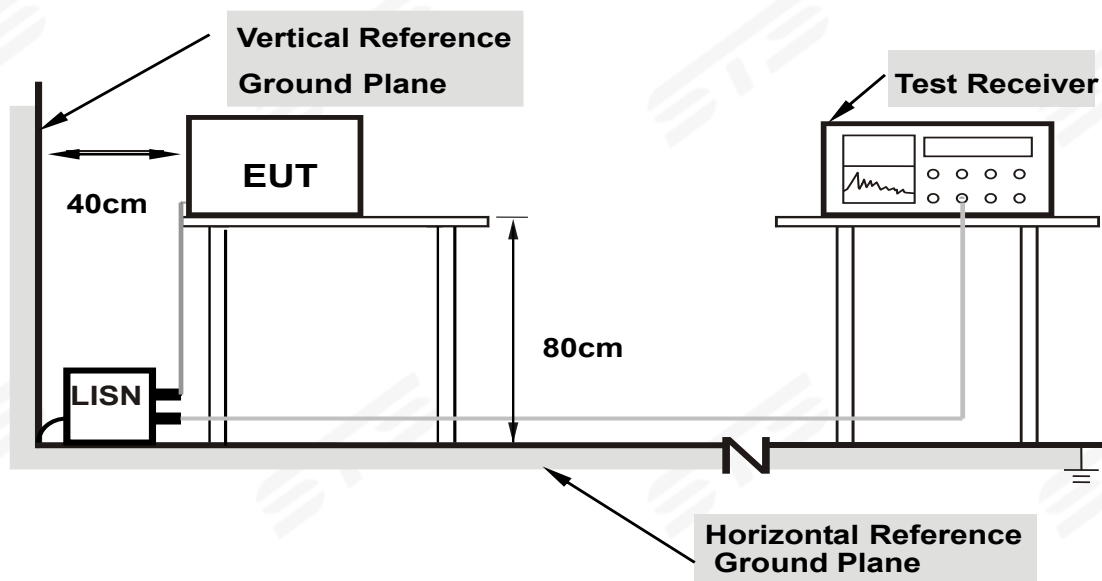
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN is at least 80 cm from the nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

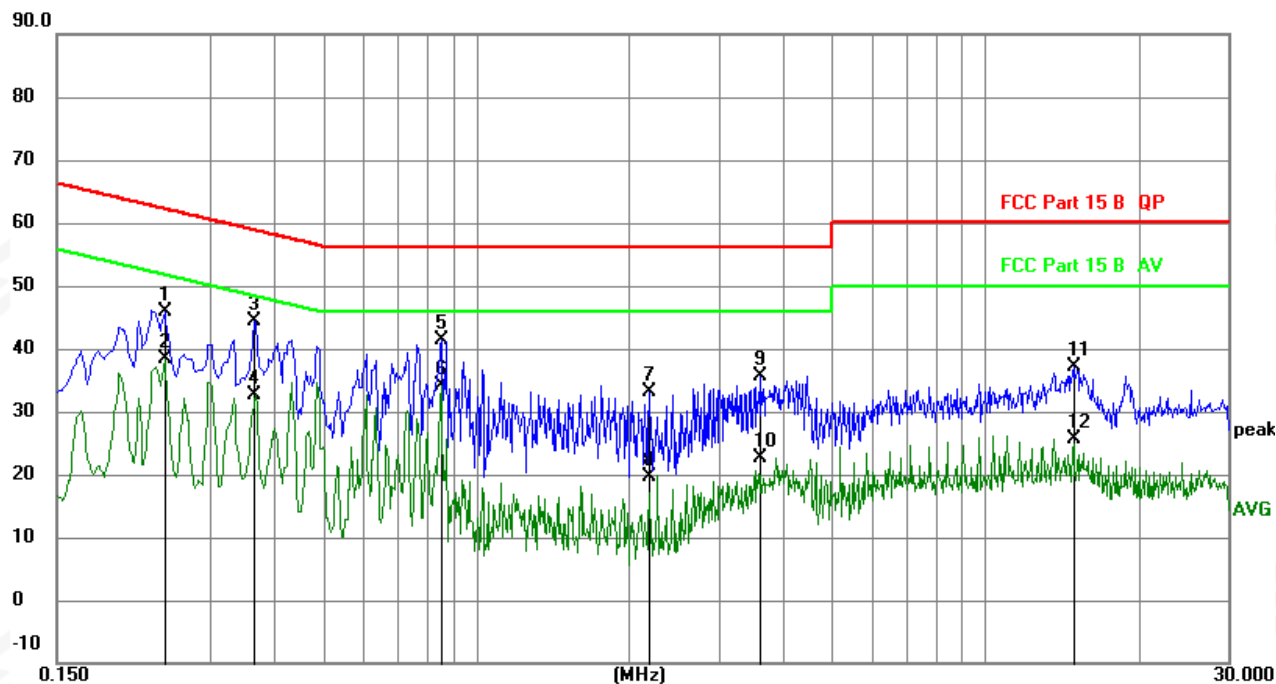
3.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



3.5 TEST RESULTS

Temperature:	23.7°C	Relative Humidity:	54%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 1		



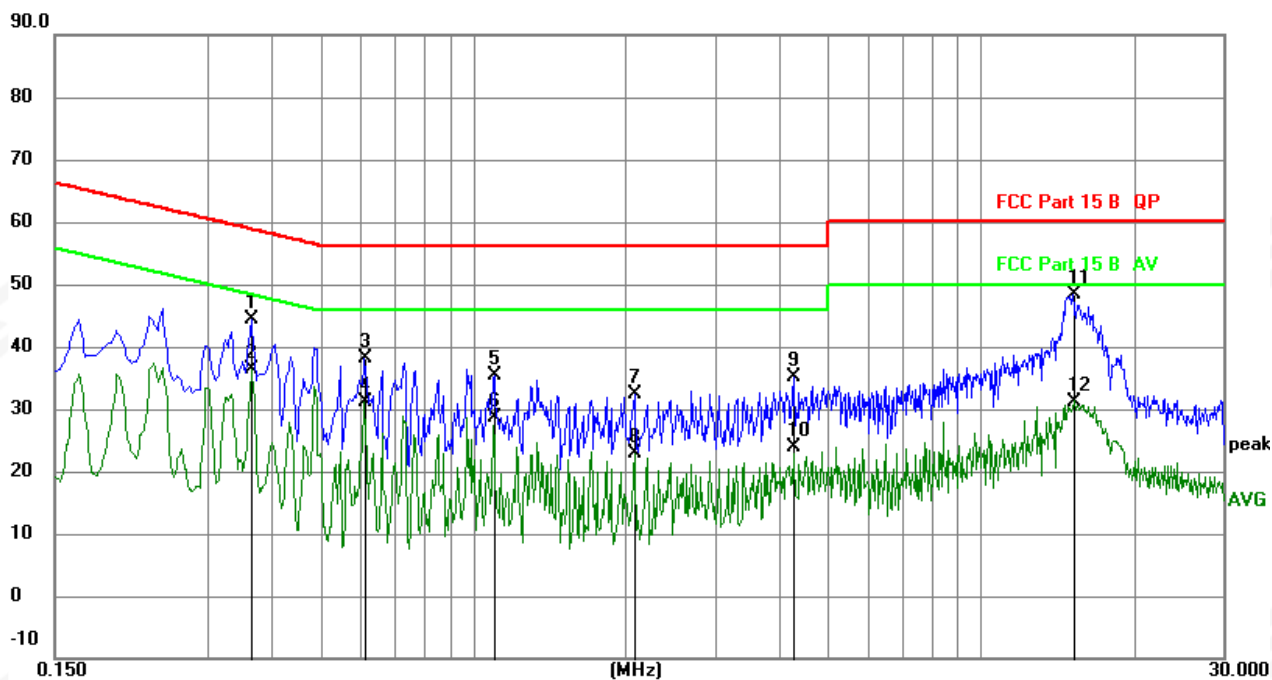
Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.2442	25.91	20.04	45.95	61.95	-16.00	QP
2		0.2442	18.42	20.04	38.46	51.95	-13.49	AVG
3		0.3653	24.36	20.05	44.41	58.61	-14.20	QP
4		0.3653	12.63	20.05	32.68	48.61	-15.93	AVG
5		0.8528	21.12	20.26	41.38	56.00	-14.62	QP
6	*	0.8528	13.86	20.26	34.12	46.00	-11.88	AVG
7		2.1898	12.79	20.22	33.01	56.00	-22.99	QP
8		2.1898	-0.47	20.22	19.75	46.00	-26.25	AVG
9		3.6225	15.16	20.53	35.69	56.00	-20.31	QP
10		3.6225	1.99	20.53	22.52	46.00	-23.48	AVG
11		14.9068	14.67	22.46	37.13	60.00	-22.87	QP
12		14.9068	3.06	22.46	25.52	50.00	-24.48	AVG



Temperature:	23.7°C	Relative Humidity:	54%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 1		



Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.3660	24.35	20.05	44.40	58.59	-14.19	QP
2		0.3660	16.37	20.05	36.42	48.59	-12.17	AVG
3		0.6134	17.85	20.17	38.02	56.00	-17.98	QP
4		0.6134	11.07	20.17	31.24	46.00	-14.76	AVG
5		1.1040	15.23	20.26	35.49	56.00	-20.51	QP
6		1.1040	8.35	20.26	28.61	46.00	-17.39	AVG
7		2.0805	12.27	20.20	32.47	56.00	-23.53	QP
8		2.0805	2.78	20.20	22.98	46.00	-23.02	AVG
9		4.2810	14.48	20.64	35.12	56.00	-20.88	QP
10		4.2810	3.30	20.64	23.94	46.00	-22.06	AVG
11	*	15.2205	25.90	22.53	48.43	60.00	-11.57	QP
12		15.2205	8.72	22.53	31.25	50.00	-18.75	AVG



4. RADIATED& FIELD EMISSION TEST RESULT (SECTION 15.209)

4.1 LIMIT

Frequency [MHz]	Field Strength [uV/m]	Measurement Distance [Meters]
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Note:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

§ 15.209(d) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.2 TEST PROCEDURE

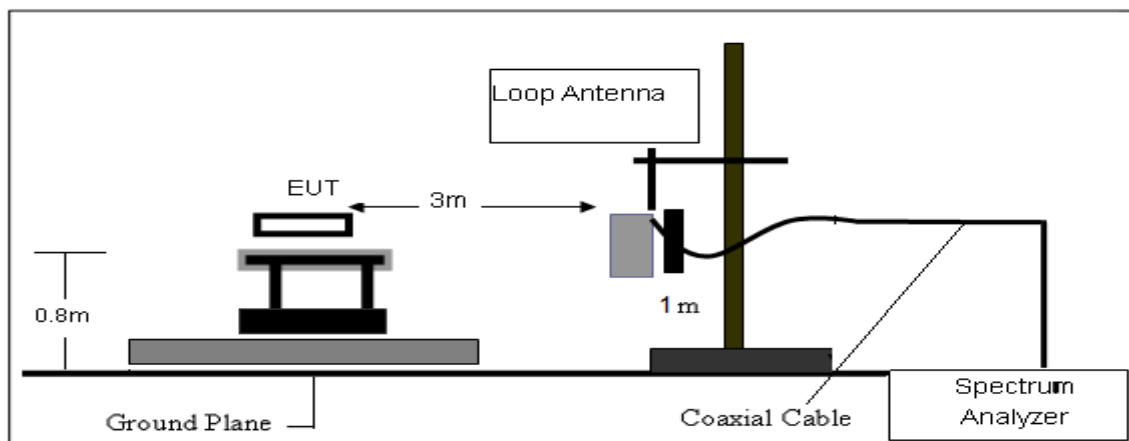
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- d. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

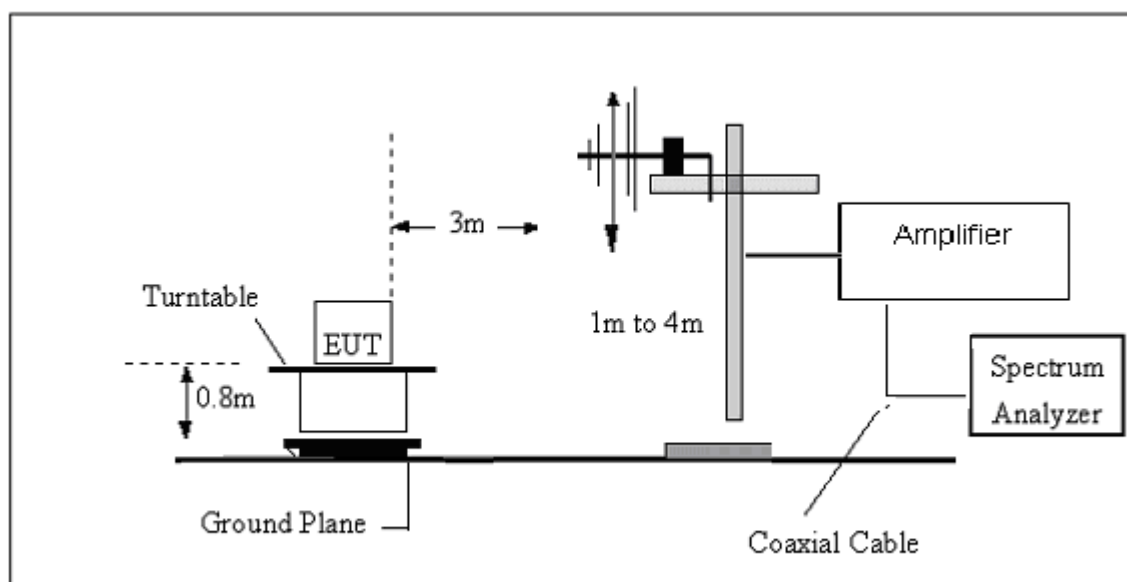
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

4.3 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



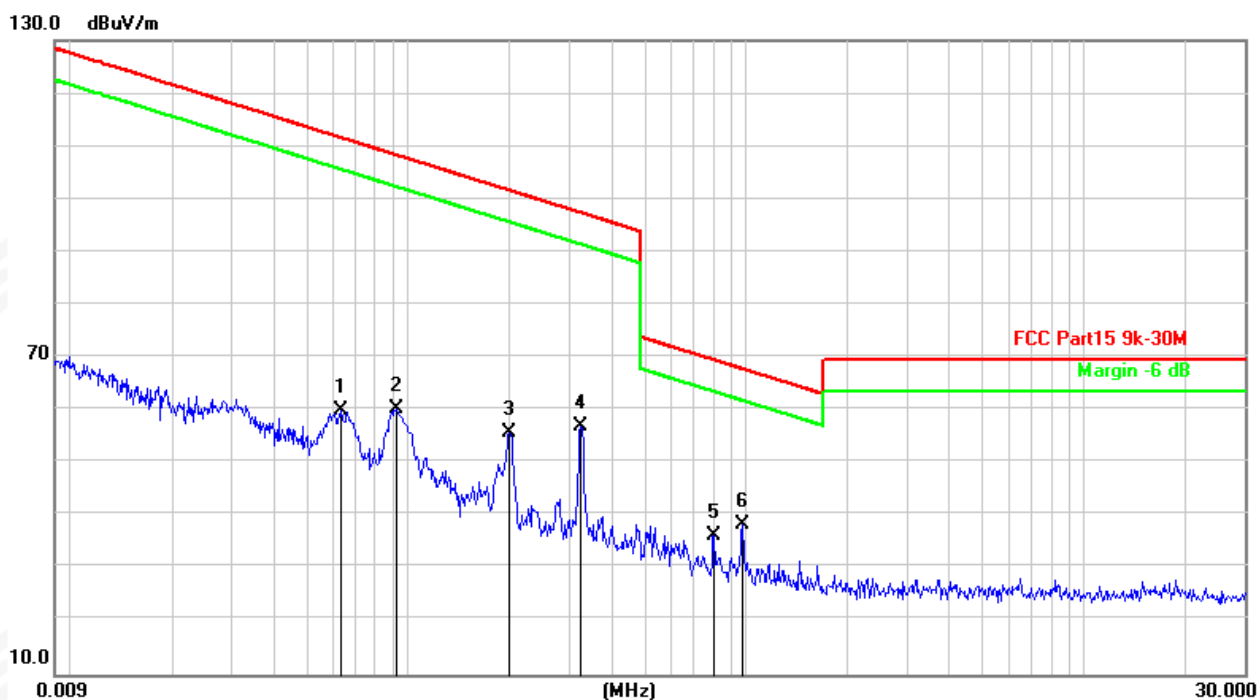


4.4 TEST RESULTS

4.4.1 SPURIOUS RADIATED EMISSION BELOW 30 MHZ

Temperature :	24.3℃	Relative Humidity :	54%
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 1(worst mode)
Polarization:	Coplanar(the worst mode)		

9KHz- 30MHz

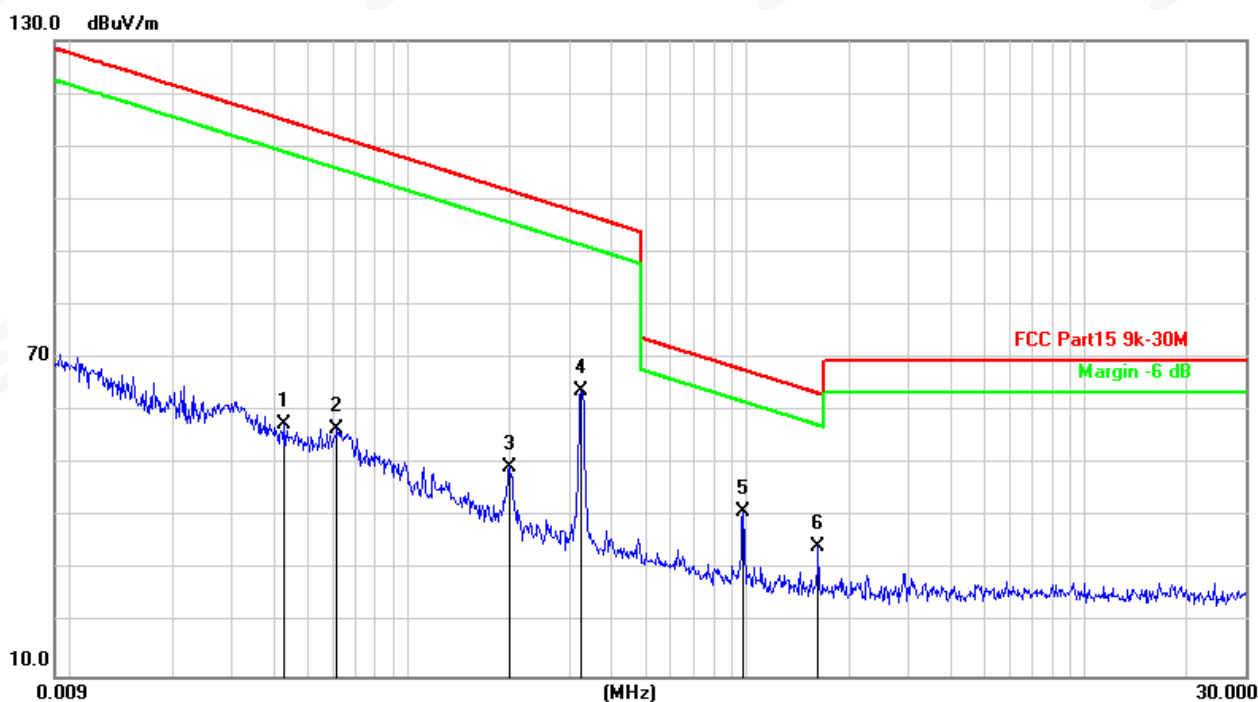


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		0.0636	67.50	-7.56	59.94	111.5	-51.60	peak
2		0.0923	67.93	-7.54	60.39	108.3	-47.91	peak
3		0.1995	63.53	-7.78	55.75	101.6	-45.86	peak
4		0.3246	64.61	-7.69	56.92	97.38	-40.46	peak
5		0.8052	43.49	-7.36	36.13	69.50	-33.37	peak
6	*	0.9783	45.62	-7.36	38.26	67.81	-29.55	peak



Temperature :	24.3℃	Relative Humidity :	54%
Test Voltage :	DC 7.7V	Test Mode :	Mode 2(worst mode)
Polarization:	Coplanar(the worst mode)		

9KHz- 30MHz



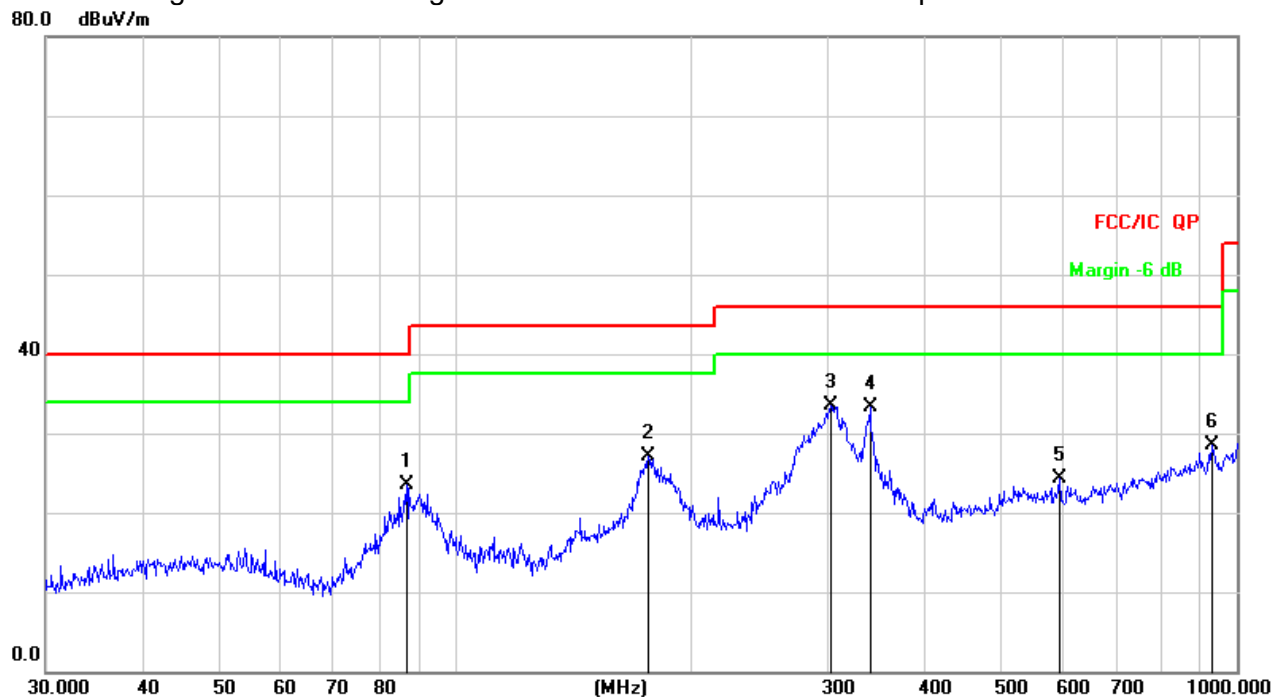
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		0.0431	64.81	-7.34	57.47	114.9	-57.44	peak
2		0.0615	64.32	-7.52	56.80	111.8	-55.03	peak
3		0.1995	57.16	-7.78	49.38	101.6	-52.23	peak
4		0.3246	71.41	-7.69	63.72	97.38	-33.66	peak
5	*	0.9783	48.39	-7.36	41.03	67.81	-26.78	peak
6		1.6308	41.80	-7.33	34.47	63.39	-28.92	peak



4.4.2 Spurious Radiated Emission below 1 GHz

Temperature :	24.3℃	Relative Humidity :	54%
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 1(Worst mode)

The following table shows the highest levels of radiated emissions on polarizations of horizontal



Remark:

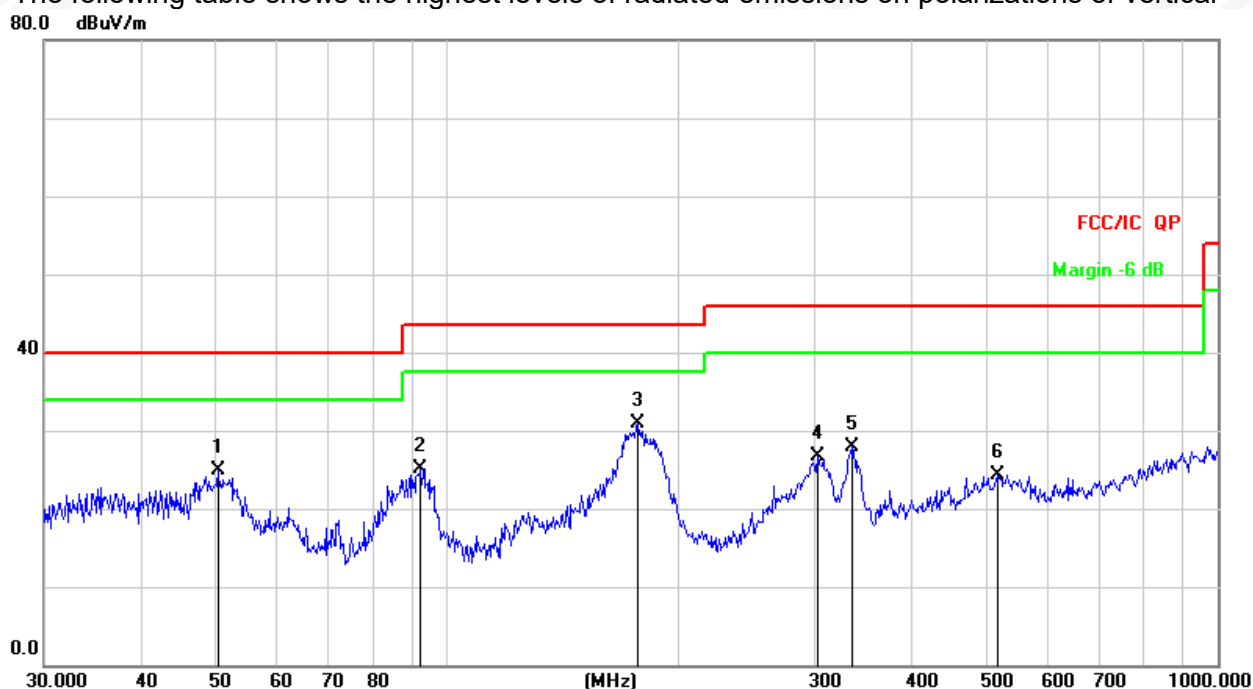
1. $\text{Margin} = \text{Result} (\text{Result} = \text{Reading} + \text{Factor}) - \text{Limit}$
2. $\text{Factor} = \text{Antenna factor} + \text{Cable attenuation factor} (\text{cable loss}) - \text{Amplifier gain}$

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		86.8068	36.60	-13.05	23.55	40.00	-16.45	QP
2		176.8878	40.60	-13.56	27.04	43.50	-16.46	QP
3	*	302.4812	43.85	-10.30	33.55	46.00	-12.45	QP
4		339.5888	42.51	-9.18	33.33	46.00	-12.67	QP
5		593.0497	28.51	-4.27	24.24	46.00	-21.76	QP
6		929.0082	28.04	0.42	28.46	46.00	-17.54	QP



Temperature :	24.3℃	Relative Humidity :	54%
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 1(Worst mode)

The following table shows the highest levels of radiated emissions on polarizations of vertical



Remark:

1. Margin = Result (Result = Reading + Factor) - Limit
2. Factor = Antenna factor + Cable attenuation factor (cable loss) - Amplifier gain

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		50.4089	35.45	-10.58	24.87	40.00	-15.13	QP
2		92.4624	37.86	-12.73	25.13	43.50	-18.37	QP
3	*	176.8878	44.41	-13.56	30.85	43.50	-12.65	QP
4		302.4812	37.03	-10.30	26.73	46.00	-19.27	QP
5		334.8589	37.14	-9.32	27.82	46.00	-18.18	QP
6		519.0649	29.94	-5.61	24.33	46.00	-21.67	QP



5. 20 DB BANDWIDTH TEST

5.1 Limit

FCC Part 2.1049, Only applicable to report.

5.2 TEST SETUP

1. Set RBW = 1%~5% OBW.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.



5.3 TEST RESULTS

Operating Frequency (kHz)	20 dB Bandwidth (Hz)
326	410

326kHz





6. ANTENNA REQUIREMENTS

6.1 Limit

For intentional device, according to FCC 47 CFR Section 15.203, An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

6.2 TEST RESULTS

The antenna used for this product is Inductive Loop coil antenna.



APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※※END OF THE REPORT※※※※※