



RF TEST REPORT

Product Name: 3-in-1 wireless power bank

Model Name: M1

FCC ID: 2BGKA-M1

Issued For : Qingdao Guanxin Technology Co., Ltd

1808, 18th Floor, Building B, Shenghe Building, No. 58
Shandong Tou Road, Laoshan District, Qingdao City, Shandong
Province

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan
District, Shenzhen, Guangdong, China

Report Number: LGT24H094RF01

Sample Received Date: Aug. 17, 2024

Date of Test: Aug. 17, 2024 ~ Sep. 03, 2024

Date of Issue: Sep. 03, 2024

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TEST REPORT CERTIFICATION

Applicant: Qingdao Guanxin Technology Co., Ltd
Address: 1808, 18th Floor, Building B, Shenghe Building, No. 58 Shandong Tou Road, Laoshan District, Qingdao City, Shandong Province
Manufacturer: Qingdao Guanxin Technology Co., Ltd
Address: 1808, 18th Floor, Building B, Shenghe Building, No. 58 Shandong Tou Road, Laoshan District, Qingdao City, Shandong Province
Product Name: 3-in-1 wireless power bank
Trademark: N/A
Model Name: M1
Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Part 15 Subpart C ANSI C63.10-2013	PASS

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Zane Shan
Engineer

Approved by:

Vita Li

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Technical Director





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Revision History

Rev.	Issue Date	Contents
00	Sep. 03, 2024	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part 15, Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	--
15.209(a)	Radiated emission, Spurious Emission	PASS	--
15.215	20 dB Bandwidth	PASS	--
15.203	Antenna requirement	PASS	--

NOTE:

(1) 'N/A' denotes test is not applicable in this Test Report.

(2) All tests are according to ANSI C63.10-2013.

1.1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate	A2LA Certificate No.: 6727.01
	FCC Registration No.: 746540
	CAB ID: CN0136

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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	$\pm 0.68\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.988\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 2.84\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 4.39\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 5.10\text{dB}$
6	All emissions, radiated >6G	$\pm 5.48\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.79\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.80\text{dB}$

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



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	3-in-1 wireless power bank
Trademark:	N/A
Model Name:	M1
Series Model:	N/A
Model Difference:	N/A
Channel List:	Please refer to the Note 3.
Operating frequency	111-205 kHz, 300-350 kHz
Equipemnt Category	Non-ISM frequency
Antenna Type:	Coil
Rating:	Input: DC 5V 3A, 9V 2A, 12V 1.5A
Battery:	Capacity: 10000mA 60mA Rated Voltage: 3.85v
Hardware Version:	Y1_SDWY_6201_V1.1
Software Version:	A770
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. The antenna information refers the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.

3.

Test Channel					
Channel	Frequency (KHz)	Channel	Frequency (KHz)	Channel	Frequency (KHz)
00	145.99	01	325.59		



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	Adapter+Wireless output 15W
Mode 2	Adapter+Wireless output 7.5W
Mode 3	Adapter+Wireless output 5W
Mode 4	Adapter+Wireless output 3W
Mode 5	Wireless output 15W
Mode 6	Wireless output 7.5W
Mode 7	Wireless output 5W
Mode 8	Wireless output 3W

For Conducted Emission	
Final Test Mode	Description
Mode 1	Adapter+Wireless output 15W

For Radiated Emission	
Final Test Mode	Description
Mode 1	Adapter+Wireless output 15W

Note: All modes have been tested, only worst mode record in the report.

2.3 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.

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Adapter	Lenovo	HW-200450CP0	N/A	Input: 100-240V ~ 50/60Hz 1.6A Output: 5V3A or 9V3A or 12V3A or 15V5A or 20V4.5A
USB-A to USB-C Cable	UGREEN	US287	N/A	0.5m, shielded, without ferrite core
Intelligent wireless charging full function test module	YZB	F18	N/A	5W, 7.5W, 10W, 15W



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”.



2.4 EQUIPMENTS LIST

Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2024.03.09	2025.03.08
LISN	COM-POWER	LI-115	02032	2024.03.09	2025.03.08
LISN	SCHWARZBECK	NNLK 8122	00160	2024.03.09	2025.03.08
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2024.03.09	2025.03.08
Temperature & Humidity	KTJ	TA218B	N.A	2024.03.09	2025.03.08
Testing Software	EMC-I_V1.4.0.3_SKET				

Radiated Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2024.03.09	2025.03.08
Active loop Antenna	ETS	6502	00049544	2023.10.13	2025.10.12
Spectrum Analyzer	Keysight	N9010B	MY60242508	2024.08.05	2025.08.04
Bilog Antenna(30M-1G)	SCHWARZBECK	VULB 9168	2705	2022.12.12	2025.12.11
Horn Antenna(1-18G)	SCHWARZBECK	3115	10SL0060	2022.06.02	2025.06.01
Pre-amplifier (9kHz-1GHz)	EMtrace	RP01A	02017	2024.03.09	2025.03.08
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2024.03.09	2025.03.08
Wireless Communications Test Set	R&S	CMW 500	137737	2024.03.09	2025.03.08
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2024.03.11	2025.03.10
Testing Software	EMC-I_V1.4.0.3_SKET				

RF Conducted Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
Signal Analyzer	Keysight	N9010B	MY60242508	2024.08.05	2025.08.04
Signal Analyzer	Keysight	N9020A	MY50530994	2024.03.09	2025.03.08
RF Automatic Test system	MW	MW100-RFCB	MW220322LG-033	2024.03.09	2025.03.08
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2024.03.09	2025.03.08
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2024.03.09	2025.03.08
Attenuator	eastsheep	90db	N.A	2024.03.09	2025.03.08
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2024.03.11	2025.03.10
Digital multimeter	MASTECH	MS8261	MBGBC83053	2024.03.09	2025.03.08
Testing Software	MTS8310_V2.0.0.0_MW				



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 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)	Conducted Emission limit (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

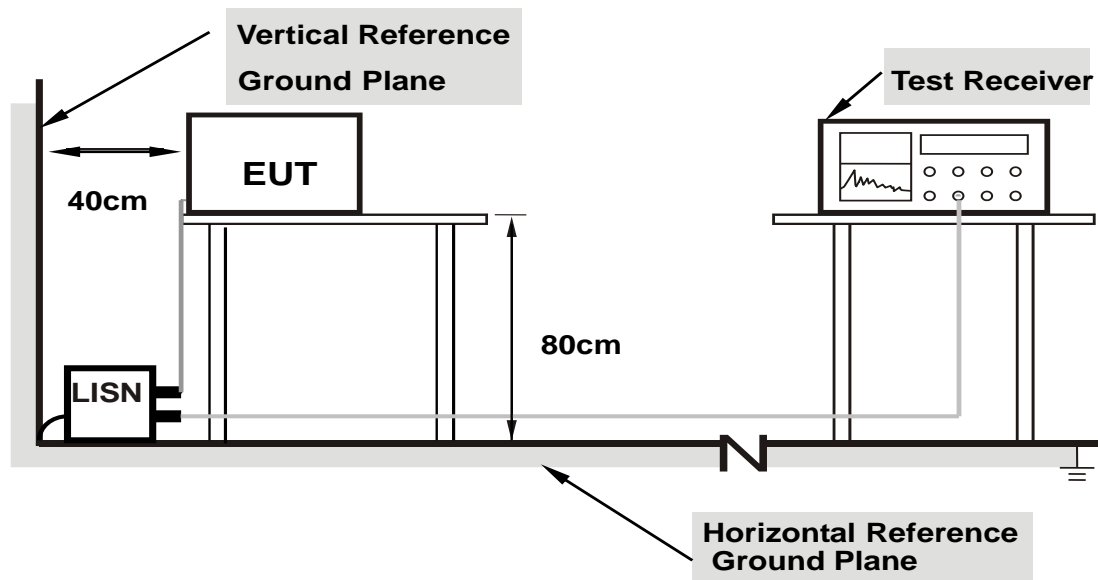
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



3.1.2 TEST PROCEDURE

- a. 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.
- b. 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.
- c. 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.
- d. LISN is at least 80 cm from the nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 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.

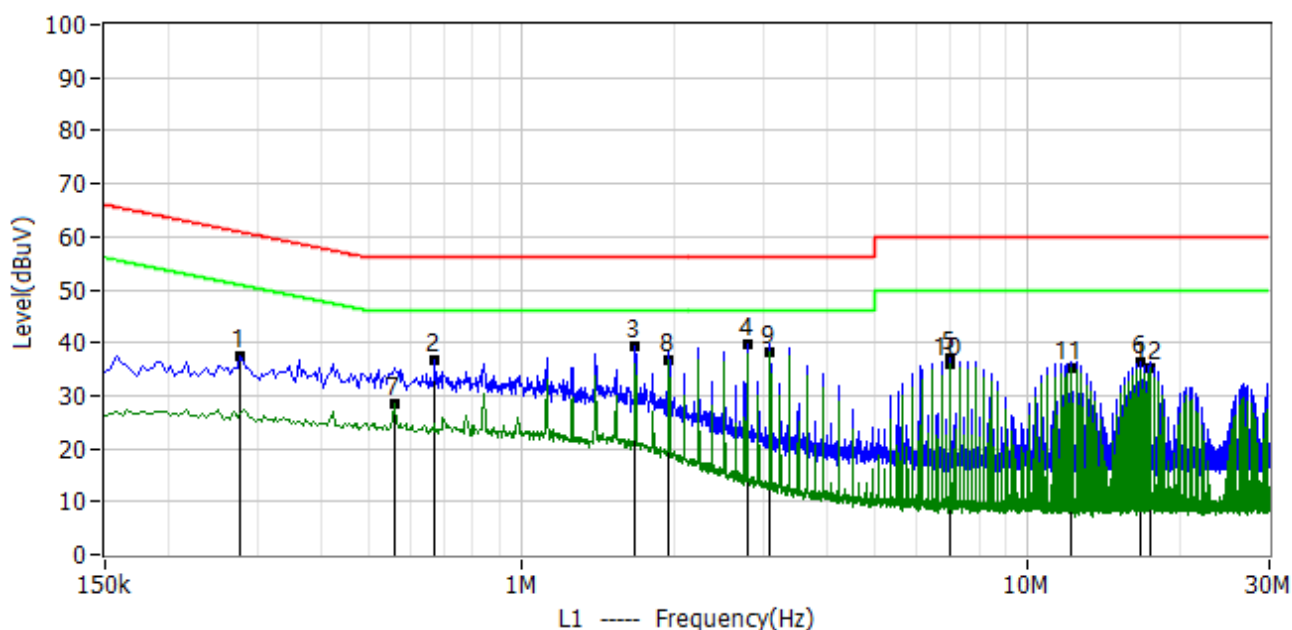
3.1.4 EUT OPERATING CONDITIONS

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.



3.1.5 TEST RESULT

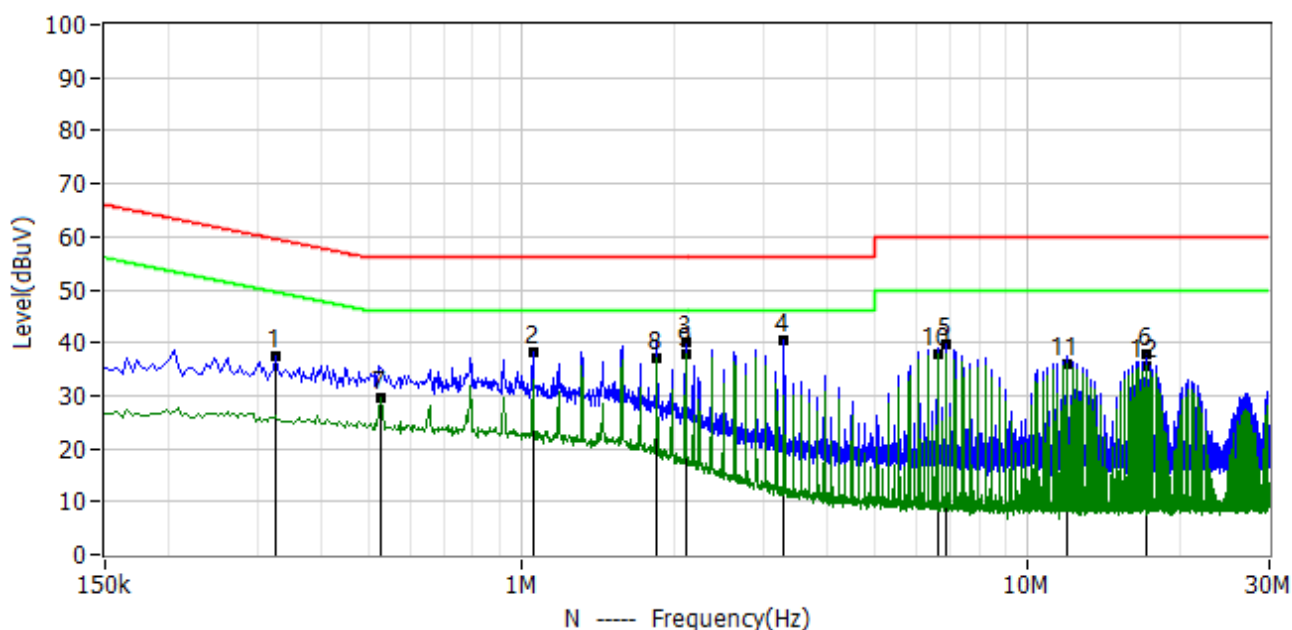
Project: LGT24H094	Test Engineer: LiuH
EUT: 3-in-1 wireless power bank	Temperature: 29.4°C
M/N: M1	Humidity: 47%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-08-21
Test Mode: Adapter+Wireless output 15W	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.278	27.05	10.59	37.64	60.88	-23.24	QP	L1
2*	0.674	26.14	10.57	36.71	56.00	-19.29	QP	L1
3*	1.674	28.54	10.89	39.43	56.00	-16.57	QP	L1
4*	2.790	28.43	11.15	39.58	56.00	-16.42	QP	L1
5*	7.038	26.01	10.99	37.00	60.00	-23.00	QP	L1
6*	16.706	24.84	11.47	36.31	60.00	-23.69	QP	L1
7*	0.558	17.72	10.57	28.29	46.00	-17.71	AV	L1
8*	1.954	25.71	10.98	36.69	46.00	-9.31	AV	L1
9*	3.098	26.98	11.19	38.17	46.00	-7.83	AV	L1
10*	7.038	25.03	10.99	36.02	50.00	-13.98	AV	L1
11*	12.174	23.94	11.18	35.12	50.00	-14.88	AV	L1
12*	17.502	23.56	11.51	35.07	50.00	-14.93	AV	L1



Project: LGT24H094	Test Engineer: LiuH
EUT: 3-in-1 wireless power bank	Temperature: 29.4°C
M/N: M1	Humidity: 47%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-08-21
Test Mode: Adapter+Wireless output 15W	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.326	26.98	10.59	37.57	59.55	-21.98	QP	N
2*	1.050	27.81	10.55	38.36	56.00	-17.64	QP	N
3*	2.110	29.26	10.76	40.02	56.00	-15.98	QP	N
4*	3.298	29.80	10.79	40.59	56.00	-15.41	QP	N
5*	6.886	28.73	10.81	39.54	60.00	-20.46	QP	N
6*	17.086	26.31	11.48	37.79	60.00	-22.21	QP	N
7*	0.526	18.97	10.54	29.51	46.00	-16.49	AV	N
8*	1.846	26.31	10.73	37.04	46.00	-8.96	AV	N
9*	2.110	27.02	10.76	37.78	46.00	-8.22	AV	N
10*	6.622	26.91	10.82	37.73	50.00	-12.27	AV	N
11*	11.982	24.66	11.14	35.80	50.00	-14.20	AV	N
12*	17.082	24.06	11.48	35.54	50.00	-14.46	AV	N



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part 15.209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Notes:

- (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.



3.2.2 TEST PROCEDURE

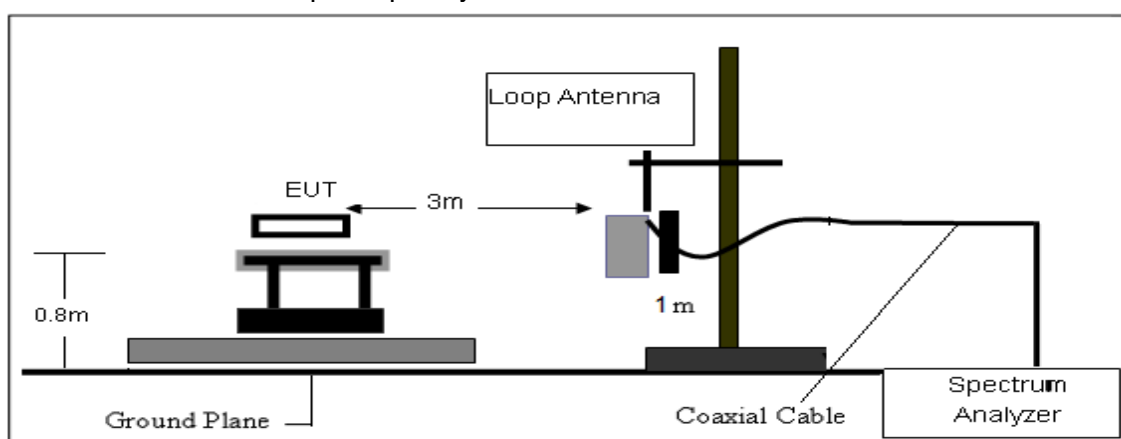
- The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz.
- The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The 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.
- 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.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

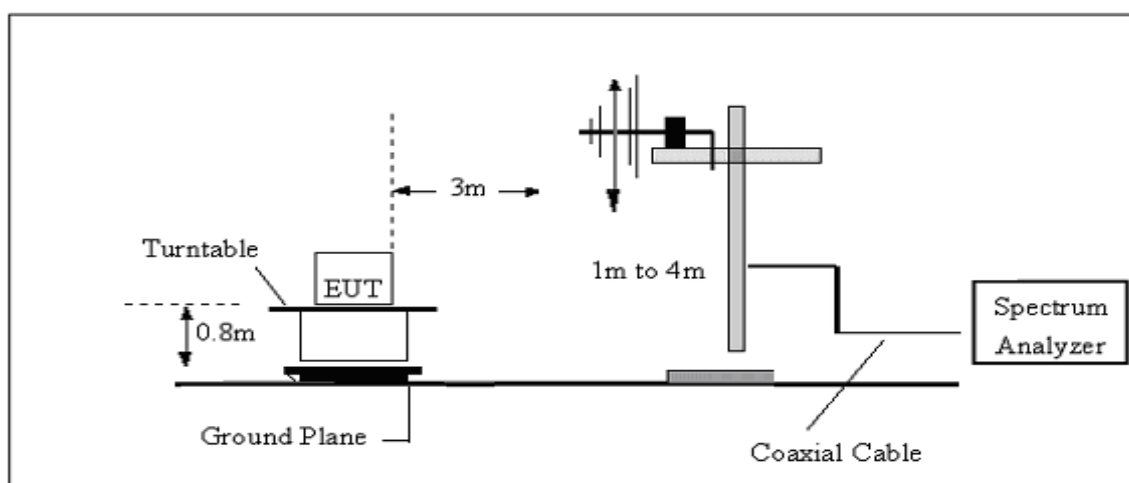
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.3 TESTSETUP

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



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



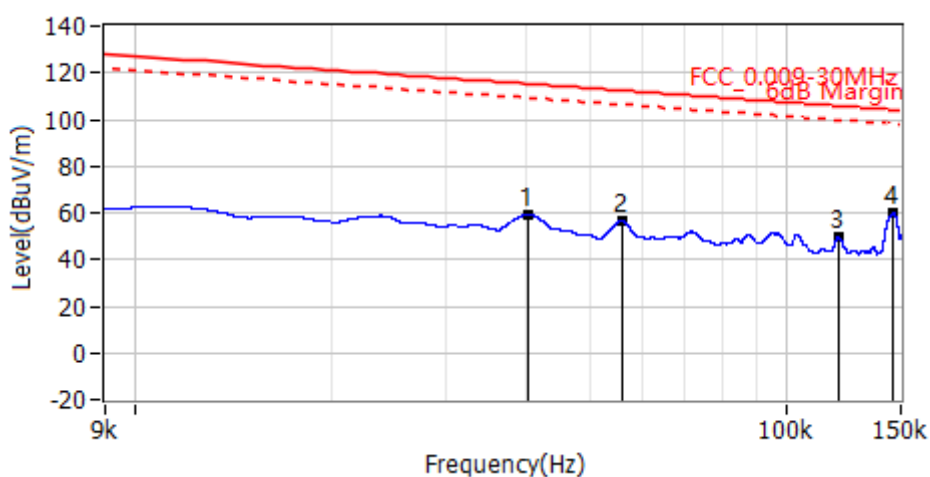


3.2.7 TEST RESULTS

Spurious Radiated Emission Below 30 MHz

9KHz-150KHz

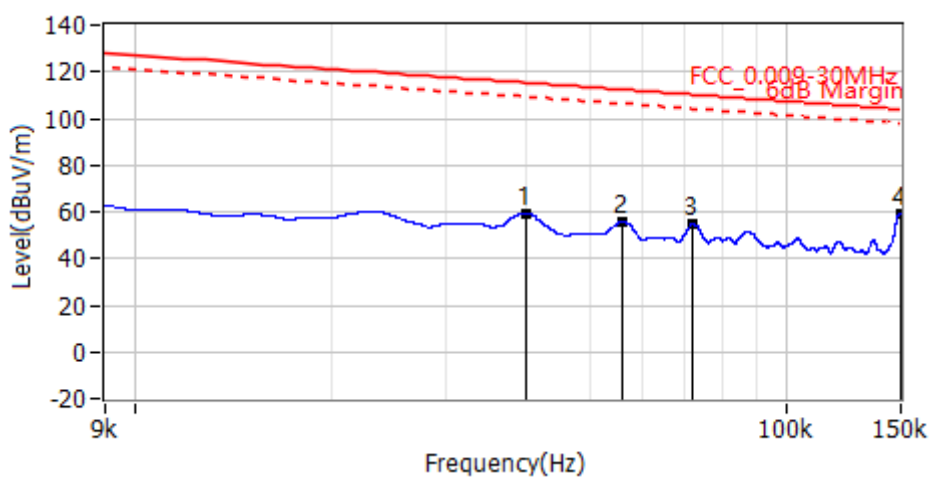
Project: LGT24H094	Test Engineer: LiuH
EUT: 3-in-1 wireless power bank	Temperature: 26°C
M/N: M1	Humidity: 59%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-08-27
Test Mode: Adapter+Wireless output 15W	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector
1*	40.1081kHz	46.61	12.74	59.35	115.21	-55.86	PK
2*	55.9882kHz	44.59	12.00	56.59	112.36	-55.77	PK
3*	120.3195kHz	37.46	12.00	49.46	105.81	-56.36	PK
4*	146.1049kHz	47.83	12.00	59.83	104.15	-44.33	PK



Project: LGT24H094	Test Engineer: LiuH
EUT: 3-in-1 wireless power bank	Temperature: 26°C
M/N: M1	Humidity: 59%RH
Test Voltage: Battery DC 3.85V	Test Data: 2024-08-27
Test Mode: Wireless output 15W	
Note:	

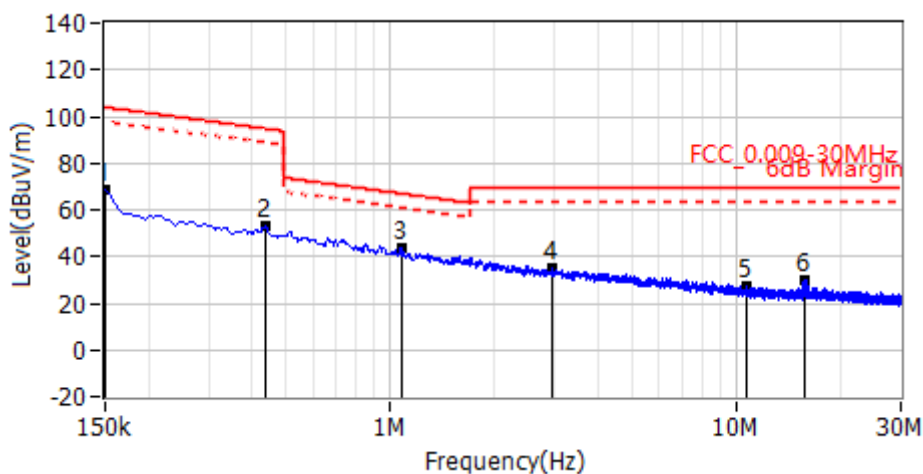


No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector
1*	39.7380kHz	46.74	12.77	59.51	115.29	-55.78	PK
2*	56.0059kHz	43.82	12.00	55.82	112.36	-56.54	PK
3*	71.9036kHz	42.62	12.00	54.62	110.22	-55.60	PK
4*	149.6475kHz	47.54	12.00	59.54	103.95	-44.40	PK



150KHz-30MHz

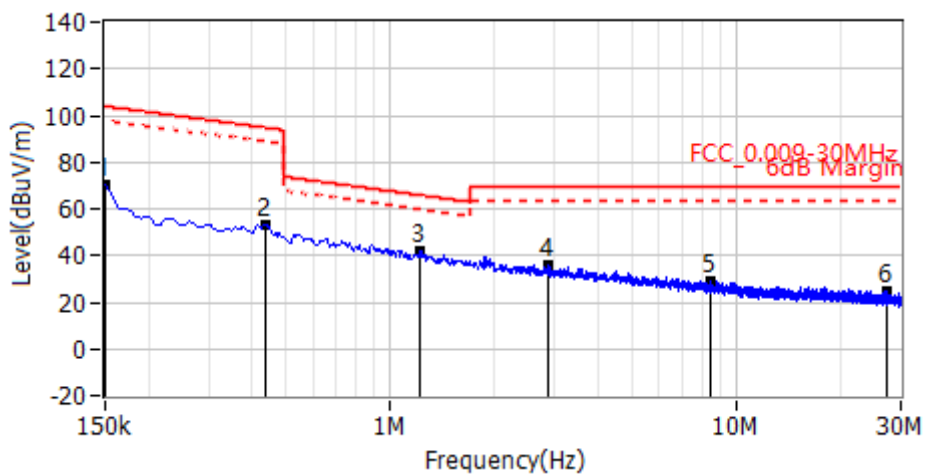
Project: LGT24H094	Test Engineer: LiuH
EUT: 3-in-1 wireless power bank	Temperature: 26°C
M/N: M1	Humidity: 59%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-08-27
Test Mode: Adapter+Wireless output 15W	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector
1*	150.0000kHz	56.64	12.00	68.64	103.93	-35.29	PK
2*	433.5750kHz	40.73	12.00	52.73	94.85	-42.12	PK
3*	1.0791MHz	31.33	12.00	43.33	66.94	-23.61	PK
4*	2.9298MHz	22.75	12.00	34.75	69.54	-34.79	PK
5*	10.6871MHz	16.38	11.16	27.54	69.54	-42.00	PK
6*	15.7093MHz	18.72	11.00	29.72	69.54	-39.82	PK



Project: LGT24H094	Test Engineer: LiuH
EUT: 3-in-1 wireless power bank	Temperature: 26°C
M/N: M1	Humidity: 59%RH
Test Voltage: Battery DC 3.85V	Test Data: 2024-08-27
Test Mode: Wireless output 15W	
Note:	

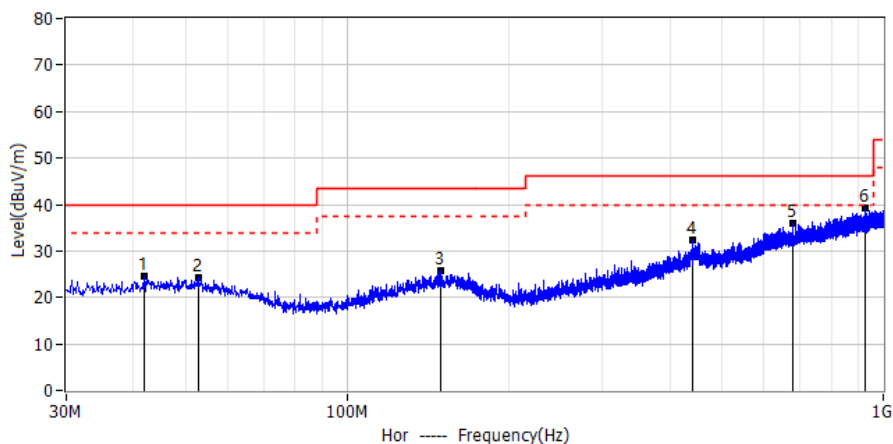


No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector
1*	150.0000kHz	57.95	12.00	69.95	103.93	-33.98	PK
2*	437.3062kHz	41.33	12.00	53.33	94.77	-41.45	PK
3*	1.2246MHz	30.31	12.00	42.31	65.84	-23.53	PK
4*	2.8813MHz	23.56	12.00	35.56	69.54	-33.98	PK
5*	8.4408MHz	17.22	12.00	29.22	69.54	-40.32	PK
6*	27.1456MHz	15.14	9.46	24.60	69.54	-44.94	PK

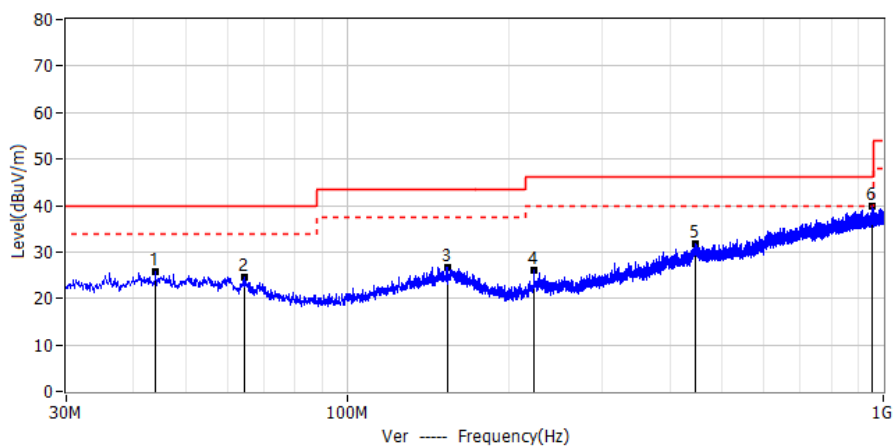


Spurious Radiated Emission Below 1 GHz

Project: LGT24H094	Test Engineer: LiuH
EUT: 3-in-1 wireless power bank	Temperature: 25°C
M/N: M1	Humidity: 55%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-08-24
Test Mode: Adapter+Wireless output 15W	
Note: Worst case	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	41.883	3.97	20.48	24.45	40.00	-15.55	QP	Hor
2*	52.795	3.57	20.62	24.19	40.00	-15.81	QP	Hor
3*	149.431	4.34	21.50	25.84	43.50	-17.66	QP	Hor
4*	441.886	6.48	25.78	32.26	46.00	-13.74	QP	Hor
5*	680.021	6.02	29.82	35.84	46.00	-10.16	QP	Hor
6*	925.795	6.22	33.03	39.25	46.00	-6.75	QP	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	44.065	5.10	20.69	25.79	40.00	-14.21	QP	Ver
2*	64.314	5.72	18.91	24.63	40.00	-15.37	QP	Ver
3*	154.039	5.17	21.60	26.77	43.50	-16.73	QP	Ver
4*	223.758	8.05	17.93	25.98	46.00	-20.02	QP	Ver
5*	445.645	5.67	25.99	31.66	46.00	-14.34	QP	Ver
6*	953.561	6.18	33.81	39.99	46.00	-6.01	QP	Ver



4. BANDWIDTH TEST

4.1 LIMIT

FCC Part 15.215, Only applicable to report.

4.2 TEST PROCEDURE

Spectrum Parameter	Setting
Span Frequency	between two times and five times the OBW
RB	1% to 5% of the OBW
VB	approximately three times RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

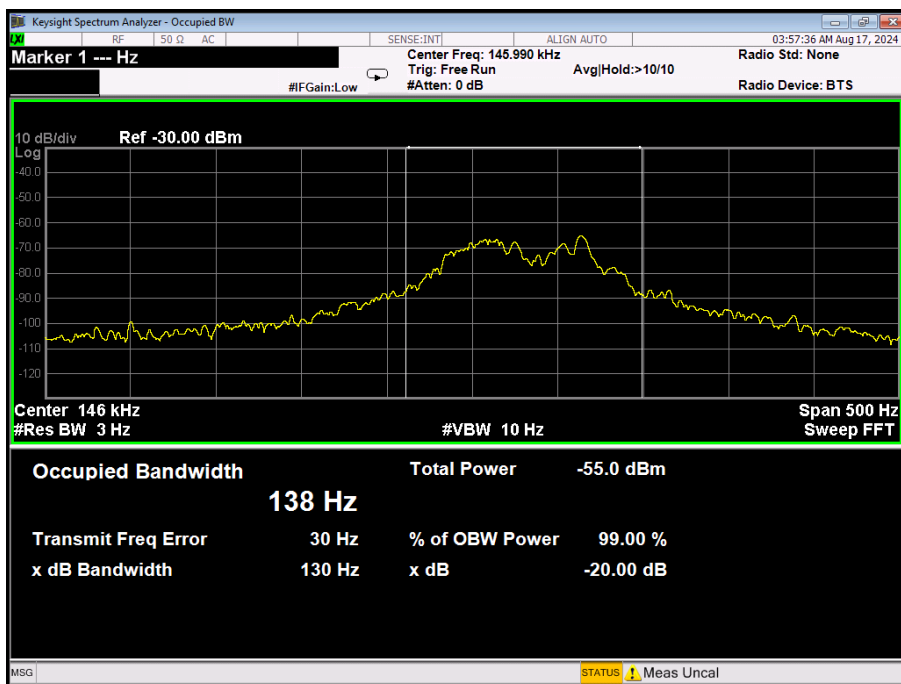
The test program and configuration, refer to 3.2.2 and 3.2.3.



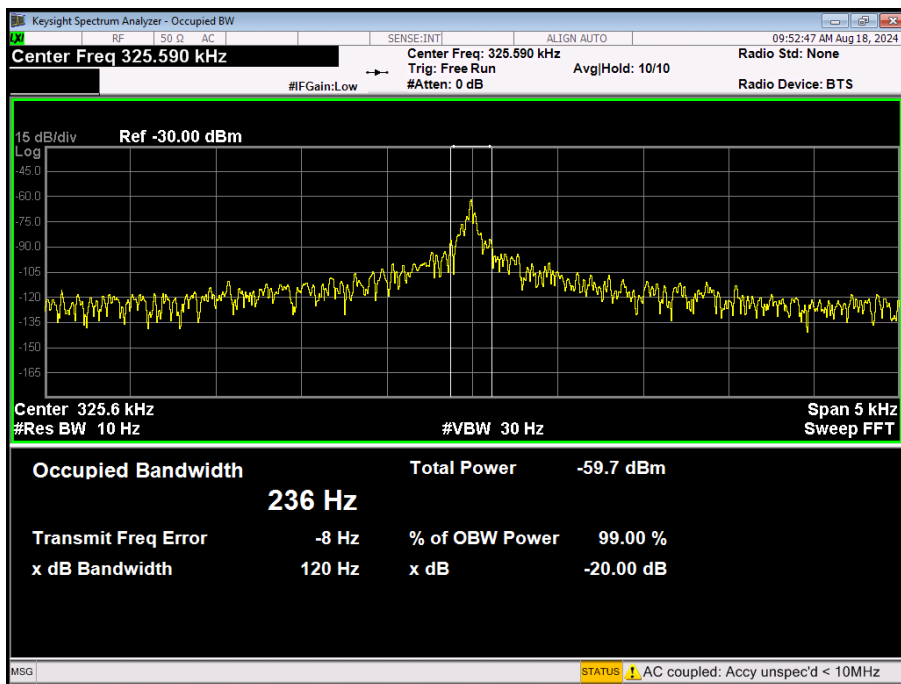
4.3 TEST RESULTS

OperatingFrequency (kHz)	20 dB Bandwidth(kHz)
145.99	0.13
325.59	0.12

CH00



CH01





5. ANTENNA APPLICATION

5.1 ANTENNA REQUIREMENT

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

5.2 RESULT

The EUT antenna is permanent attached antenna. It comply with the standard requirement.



APPENDIX I - TEST SETUP PHOTOS

Note: Please see the attached RF_Test Setup photos for FCC ID.

APPENDIX II - PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS

Note: Please see the attached M1_External Photos and M1_Internal Photos.

※※※※※END OF THE REPORT※※※※※