

Prüfbericht-Nr.: Test report no.:	CN25GIVI 001	Auftrags-Nr.: Order no.:	170423650	Seite 1 von 17 Page 1 of 17
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2025.06.30	
Auftraggeber: Client:	Shenzhen Zhilian Xintong electronics Co.,Ltd Room201,NO.49 Xinhe Road, Shangmugu Community,Pinghu Street, Longgang District, Shenzhen, China			
Prüfgegenstand: Test item:	Wireless Power Bank			
Bezeichnung / Typ-Nr.: Identification / Type no.:	KT-D009, KT-D003, KT-D011, KT-D013, KT-D001, KT-D020, KT-D022 (Trademark: N/A)			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 15: Subpart C Section 15.215 CFR47 FCC Part 15: Subpart C Section 15.207			
Wareneingangsdatum: Date of sample receipt:	2025.06.30			
Prüfmuster-Nr.: Test sample no.:	170423650-001			
Prüfzeitraum: Testing period:	2025.06.30 - 2025.07.03			
Ort der Prüfung: Place of testing:	Refer to section 2.1			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Guangdong) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:			genehmigt von: authorized by:	
Datum: Date: 2025.07.03	Signed by: Amy Wang		Ausstellungsdatum: Issue date: 2025.07.04	Signed by: Storm Shu
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / Other:	FCC ID: 2A45C-KT-D009			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 99% BANDWIDTH

RESULT: Pass

5.1.3 20dB BANDWIDTH

RESULT: Pass

5.1.4 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.5 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of radio spectrum

Appendix B: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

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

FCC Accreditation Designation No.: CN1333

TÜV Rheinland (Guangdong) Co., Ltd. subcontract all test to Shenzhen LGT Test Service Co., Ltd. And all tests at this site have been conducted under the supervision of a TÜV Rheinland engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2025.03.06	2026.03.05
LISN	SCHWARZBECK	NNLK 8122	00160	2025.03.05	2026.03.04
Transient Limiter	CYBERTEK	EM5010A	E225010004 9	2025.03.05	2026.03.04
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
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	2025.03.06	2026.03.05
Signal Analyzer	Keysight	N9020A	MY50530994	2025.03.05	2026.03.04
Active loop Antenna	ETS	6502	00049544	2025.03.11	2028.03.10
Trilog Broadband Antenna (30M-1G)	SCHWARZBECK	VULB 9168	2705	2024.05.17	2027.05.16
Pre-amplifier(30M-1G)	EMtrace	RP01A	02019	2025.03.06	2026.03.05
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
Testing Software	EMC-I_V1.4.0.3_SKET				

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table:

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
Occupied Channel Bandwidth	$\pm 3.2 \%$
All emissions, radiated (9kHz to 30MHz)	$\pm 2.16\text{dB}$
All emissions, radiated (30MHz to 1000MHz)	$\pm 4.40\text{dB}$
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	$\pm 2.80\text{dB}$

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Guangdong) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The Shenzhen LGT Test Service Co., Ltd. Test facility located at Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The Product is Wireless Power Bank, which supports wireless charging (WPT) function.

Model list: KT-D009, KT-D003, KT-D011, KT-D013, KT-D001, KT-D020, KT-D022

All the models are identical with each other, except for their model's name, colour and decorate.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	Wireless Power Bank
Type Designation:	KT-D009, KT-D003, KT-D011, KT-D013, KT-D001, KT-D020, KT-D022
FCC ID:	2A45C-KT-D009
Power Supply:	Lightning input: 9VDC, 2A; USB-C input: 5VDC, 3A/ 9VDC, 2A; USB-C output: 5VDC, 2A/ 9VDC, 2.2A/ 9VDC, 2A; USB-A output: 5VDC, 2A/ 9VDC, 2.2A/ 12VDC, 1.5A/ 5VDC, 4.5A; Wireless charging output: 5W, 7.5W, 10W, 15W Max.; Total output: 5VDC,3A(15W Max.);
Battery:	DC 3.7V
Operating Temperature Range:	-20°C ~ +65 °C
Technical Specification of WPT	
Frequency Range:	111~205KHz
Type of Modulation:	FSK
Antenna Type:	Induction coil
Antenna Gain	0 dBi
Antenna number	1
Wireless Charger output power	5W, 7.5W, 10W, 15W

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, USB-C Input + Wireless Charging (5W)
- B. On, Wireless output(5W, 7.5W, 10W, 15W) find worst-case.
- C. On, Stand by

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- Block Diagram
- Model Difference Letter
- User Manual
- Operation Description
- FCC Label and Location Info
- Schematics

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5 & 6. All testing were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all tests were performed on model KT-D009 in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating
USB-C to USB-C Cable	N/A	N/A	N/A	0.3m

Auxiliary Equipment for RF

Description	Manufacturer	Model	S/N	Rating
Adapter	HuntKey	HKA06520033-0C1	N/A	Input: 100-240V ~ 50/60Hz 1.8A Output: 5V3A or 9V3A or 12V3A or 15V5A or 20V3.25A
Intelligent wireless charging full function test module	YBZ	F18	N/A	5W, 7.5W, 10W,15W

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 30MHz)

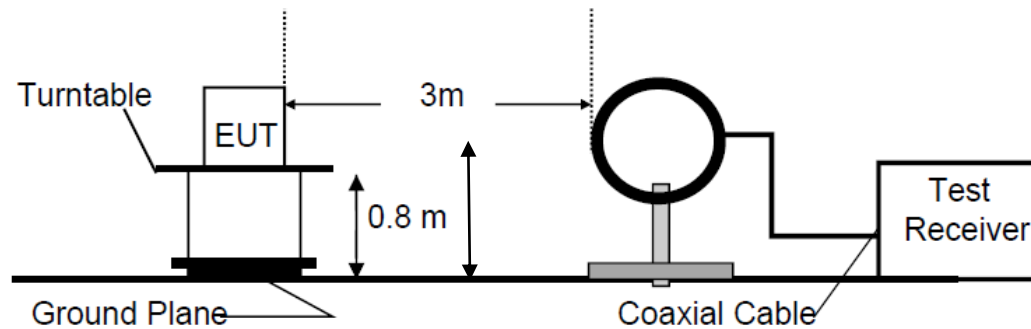


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

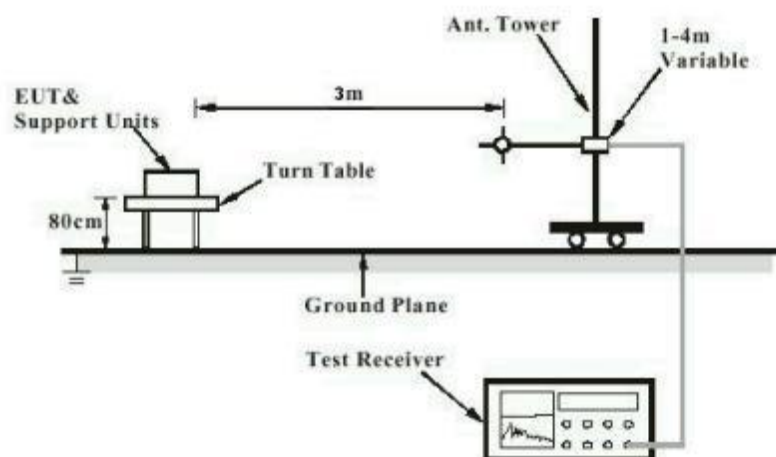
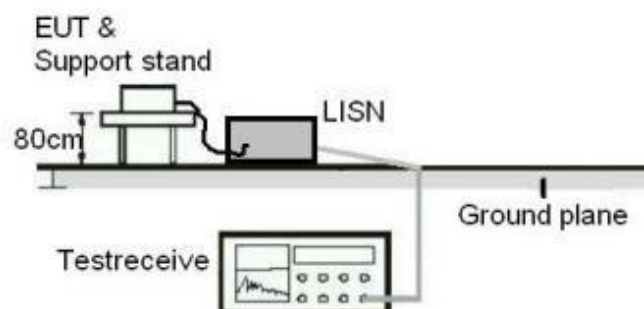


Diagram of Measurement Configuration for Mains Conduction Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: **Pass**

Test Specification

Test standard	:	Part 15.203
	:	RSS-Gen Clause 6.7
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has three internal antenna, and the antenna is permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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5.1.2 99% Bandwidth

RESULT:

Pass

Test Specification

Test standard : RSS-Gen Clause 6.7
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-07-01
Input voltage : Power by battery
Operation mode : B
Ambient temperature : 25 °C
Relative humidity : 56 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

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5.1.3 20dB Bandwidth

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.215(c)
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-07-01
Input voltage : Power by battery
Operation mode : B
Ambient temperature : 25 °C
Relative humidity : 56 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

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5.1.4 Radiated Spurious Emission

RESULT:

Pass

Test Specification

Test standard	FCC Part 15.209 & 15.205 RSS-216 Clause 6.2.2.2
Basic standard	ANSI C63.10: 2013
Limits	Refer to 15.209(a) RSS-216 Clause 6.2.2.2 & 6.2.3
Kind of test site	3m Semi-anechoic Chamber

Test Setup

Date of testing	2025-07-01 to 2025-07-02
Input voltage	Power by battery
Operation mode	B
Ambient temperature	23 °C
Relative humidity	51 %
Atmospheric pressure	101 kPa

For the measurement records, refer to the appendix A.

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5.1.5 Conducted Emission on AC Mains

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.207
	: RSS-216 Clause 6.2
Basic standard	: ANSI C63.10: 2013
Frequency range	: 150KHz - 30MHz
Limits	: FCC Part 15.207(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-07-01
Input voltage	: AC 120V, 60Hz
Operation mode	: A
Earthing	: Not connected
Ambient temperature	: 26 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

7 List of Tables

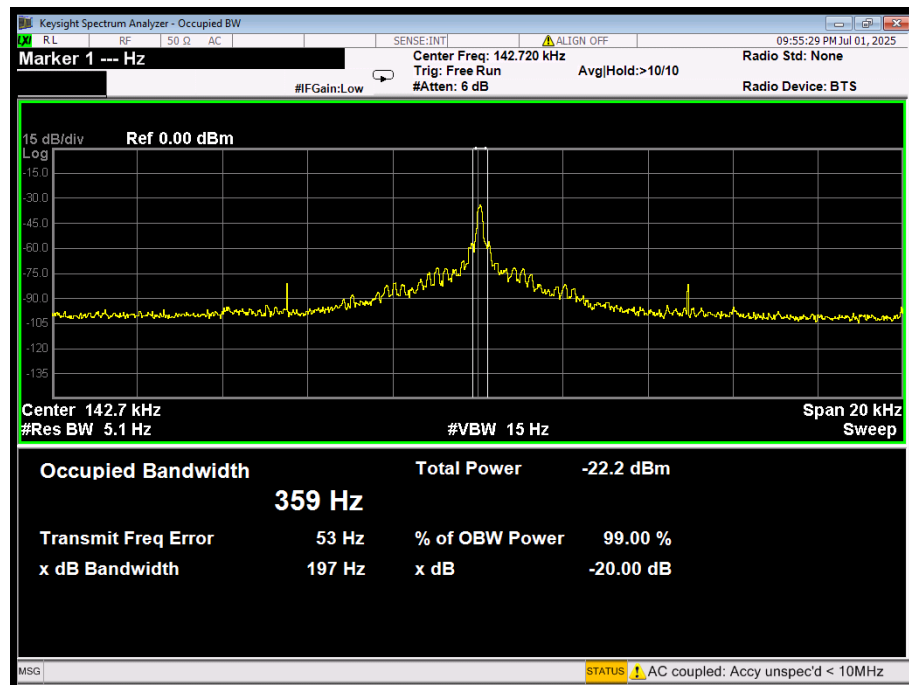
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Appendix A: Test Results of FCC Part 15C

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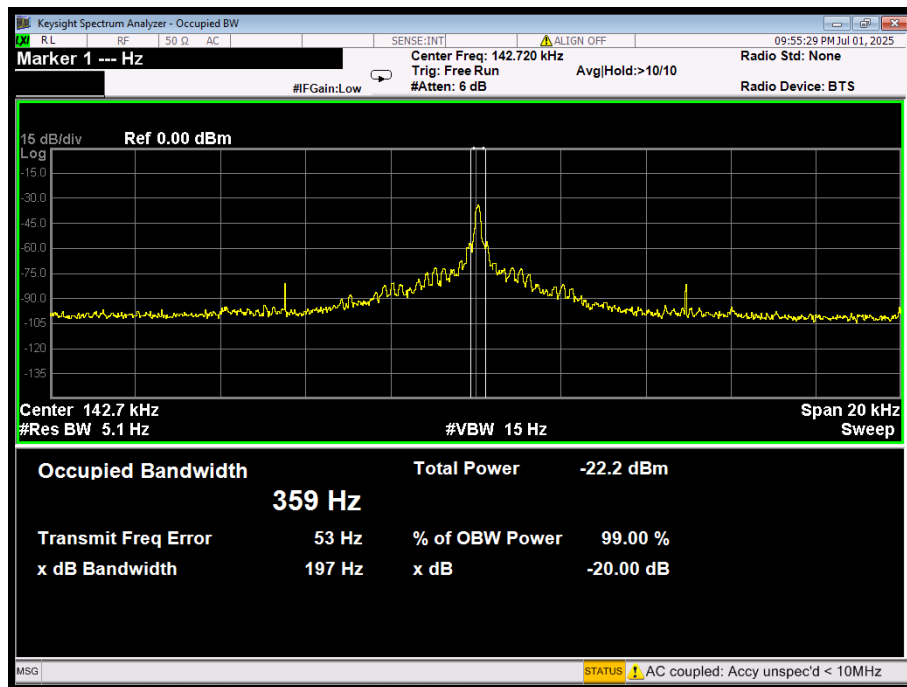
Appendix A.1: Test Results of 20dB Bandwidth

All modes tested, only the worst-case reported.



Appendix A.2: Test Results of 99% Bandwidth

All modes tested, only the worst-case reported.

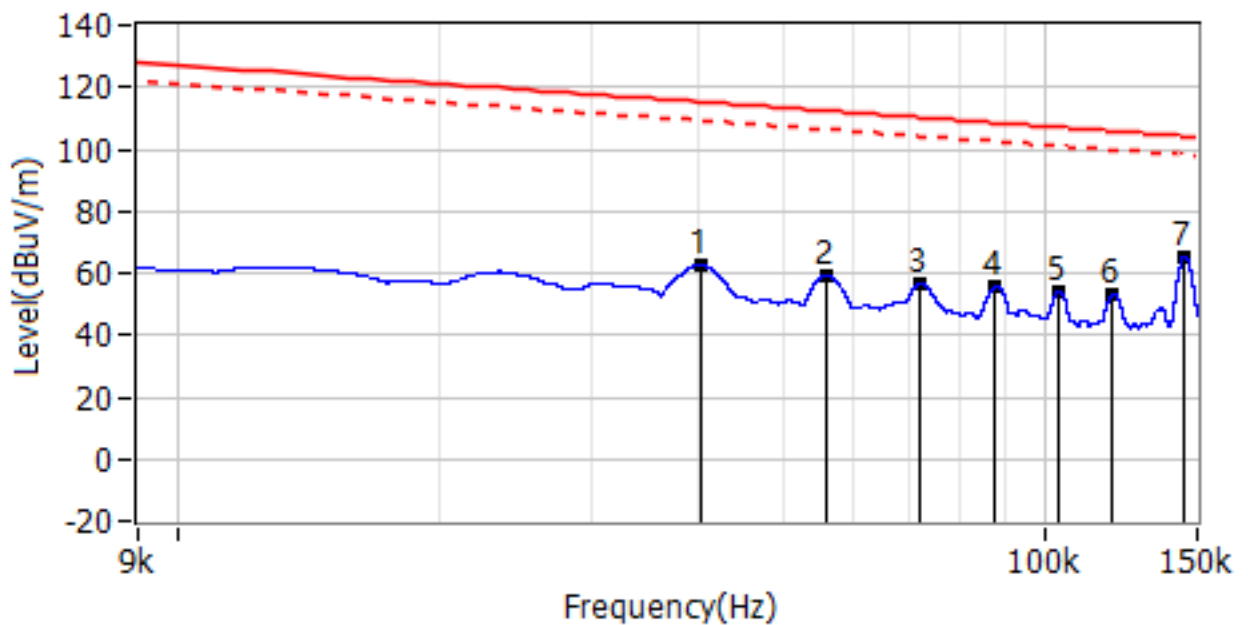


Appendix A.3: Test Results of Radiated Spurious Emission

Note: The highest waveform in the figure is Fundamental.
all polarizations for X, Y, Z tested, only the worst-case reported.
The all output power was carried, but only the worst case was presented in this report.

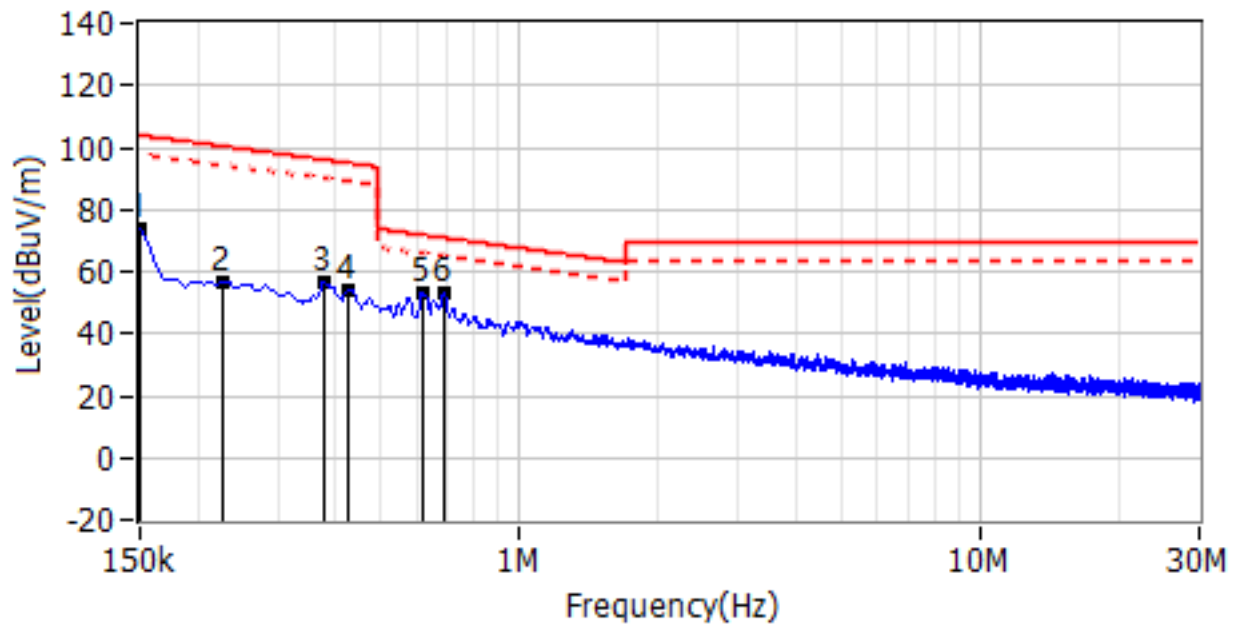
9KHz – 30MHz

Project: LGT25F288	Test Engineer: LiuH
EUT: Wireless Power Bank	Temperature: 23°C
M/N: KT-D009	Humidity: 51%RH
Test Voltage: Battery	Test Data: 2025-07-02
Test Mode: Wireless Charging (15W)	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector
1*	40.0905kHz	49.84	12.76	62.60	115.22	-52.62	PK
2*	56.0059kHz	47.22	12.02	59.24	112.36	-53.12	PK
3*	71.9036kHz	44.63	12.02	56.65	110.22	-53.57	PK
4*	87.8014kHz	43.70	12.02	55.72	108.51	-52.80	PK
5*	104.0516kHz	42.10	12.02	54.12	107.06	-52.94	PK
6*	119.9670kHz	41.18	12.02	53.20	105.84	-52.64	PK
7*	142.0474kHz	53.47	12.02	65.49	104.22	-38.72	PK

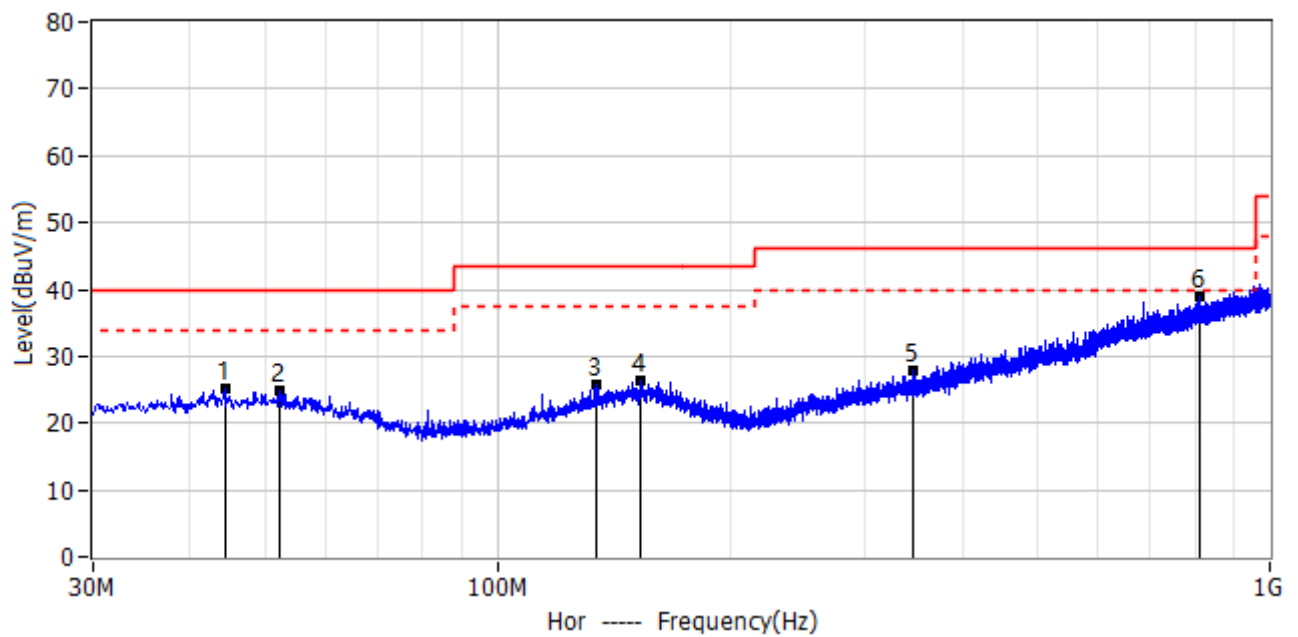
Project: LGT25F288	Test Engineer: LiuH
EUT: Wireless Power Bank	Temperature: 23°C
M/N: KT-D009	Humidity: 51%RH
Test Voltage: Battery	Test Data: 2025-07-02
Test Mode: Wireless Charging (15W)	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector
1*	150.0000kHz	62.01	12.02	74.03	103.93	-29.90	PK
2*	228.3562kHz	44.63	12.03	56.66	100.33	-43.67	PK
3*	377.6062kHz	44.28	12.03	56.31	96.03	-39.72	PK
4*	426.1125kHz	42.15	12.03	54.18	95.00	-40.82	PK
5*	616.4062kHz	40.76	12.04	52.80	71.81	-19.01	PK
6*	687.3000kHz	41.29	12.04	53.33	70.86	-17.53	PK

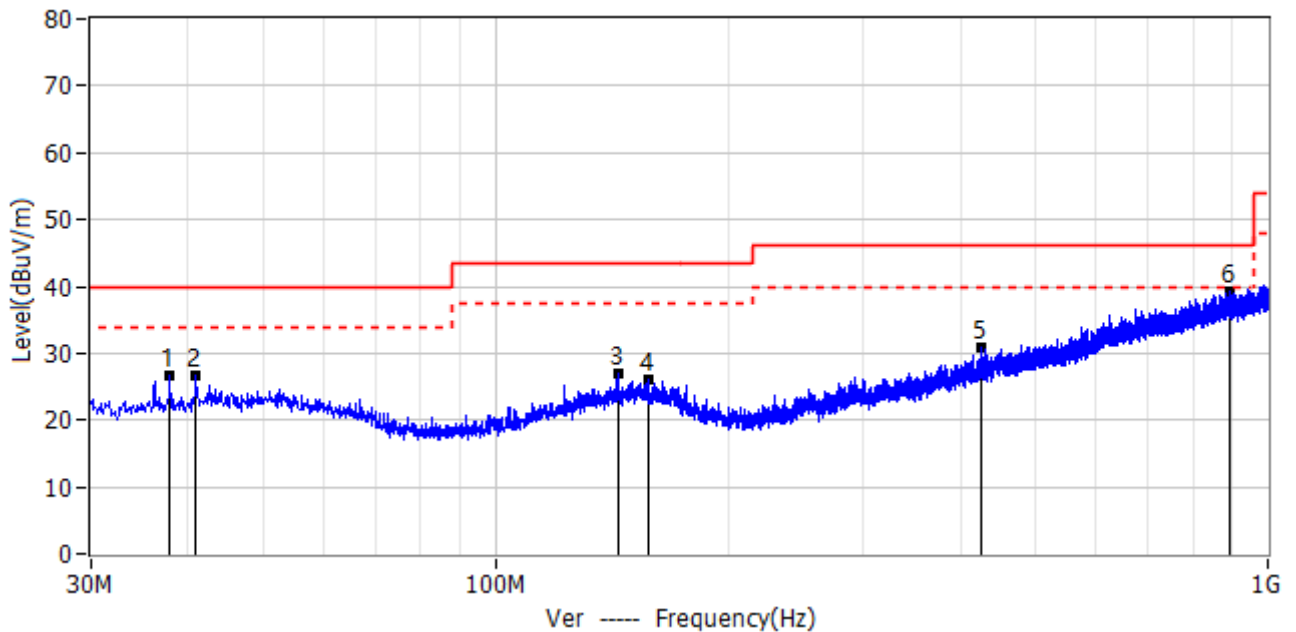
30MHz - 1GHz

Project: LGT25F288	Test Engineer: LiuH
EUT: Wireless Power Bank	Temperature: 23°C
M/N: KT-D009	Humidity: 51%RH
Test Voltage: Battery	Test Data: 2025-07-02
Test Mode: Wireless Charging (15W)	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	44.429	4.26	20.86	25.12	40.00	-14.88	QP	Hor
2*	52.431	4.16	20.80	24.96	40.00	-15.04	QP	Hor
3*	134.639	4.74	21.06	25.80	43.50	-17.70	QP	Hor
4*	153.554	4.23	22.06	26.29	43.50	-17.21	QP	Hor
5*	344.644	4.52	23.26	27.78	46.00	-18.22	QP	Hor
6*	812.548	5.60	33.23	38.83	46.00	-7.17	QP	Hor

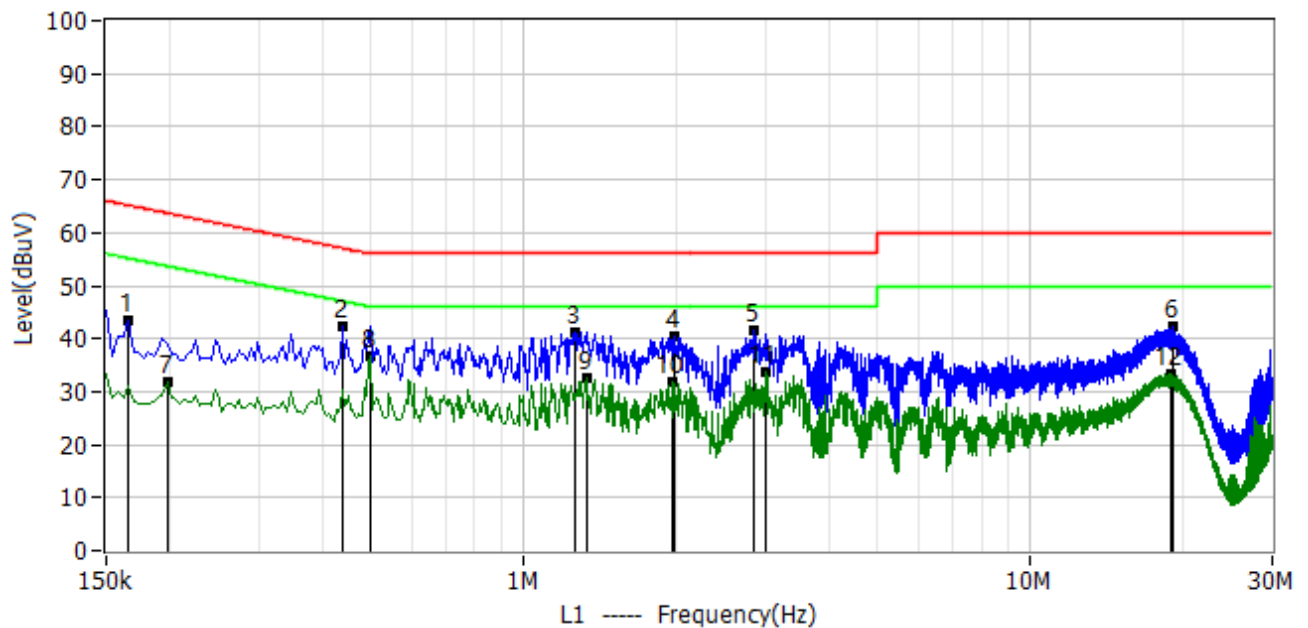
Project: LGT25F288	Test Engineer: LiuH
EUT: Wireless Power Bank	Temperature: 23°C
M/N: KT-D009	Humidity: 51%RH
Test Voltage: Battery	Test Data: 2025-07-02
Test Mode: Wireless Charging (15W)	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	37.881	6.65	20.02	26.67	40.00	-13.33	QP	Ver
2*	41.034	5.91	20.65	26.56	40.00	-13.44	QP	Ver
3*	143.975	5.28	21.66	26.94	43.50	-16.56	QP	Ver
4*	157.555	3.80	22.18	25.98	43.50	-17.52	QP	Ver
5*	426.609	4.97	25.95	30.92	46.00	-15.08	QP	Ver
6*	893.058	4.94	34.35	39.29	46.00	-6.71	QP	Ver

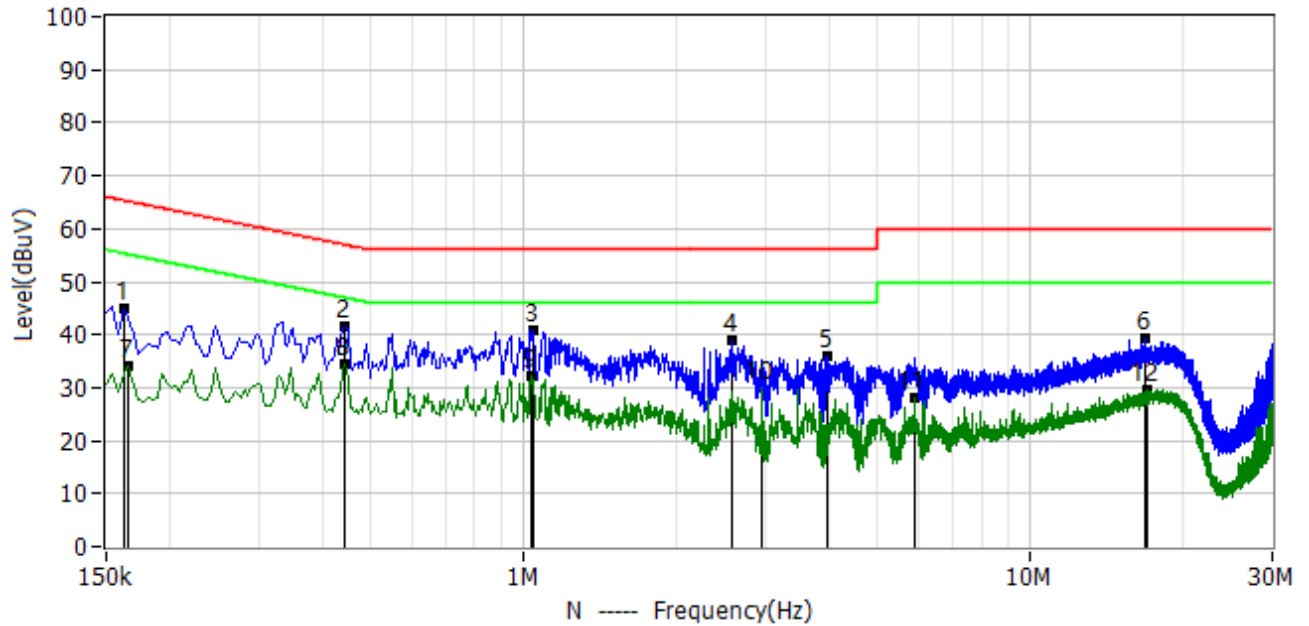
Appendix A.4: Test Results of Conducted Emission on AC Mains

Project: LGT25F288	Test Engineer: LiuH
EUT: Wireless Power Bank	Temperature: 26°C
M/N: KT-D009	Humidity: 56%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-07-01
Test Mode: USB-C Input+ Wireless Charging (5W)	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.166	32.86	10.67	43.53	65.16	-21.63	QP	L1
2*	0.438	31.57	10.88	42.45	57.10	-14.65	QP	L1
3*	1.266	30.16	11.04	41.20	56.00	-14.80	QP	L1
4*	1.974	29.39	11.09	40.48	56.00	-15.52	QP	L1
5*	2.846	30.41	11.28	41.69	56.00	-14.31	QP	L1
6*	19.122	30.62	11.82	42.44	60.00	-17.56	QP	L1
7*	0.198	21.25	10.72	31.97	53.69	-21.73	AV	L1
8*	0.498	25.78	10.93	36.71	46.03	-9.33	AV	L1
9*	1.330	21.68	11.07	32.75	46.00	-13.25	AV	L1
10*	1.966	20.77	11.09	31.86	46.00	-14.14	AV	L1
11*	3.014	22.34	11.34	33.68	46.00	-12.32	AV	L1
12*	19.002	21.52	11.82	33.34	50.00	-16.66	AV	L1

Project: LGT25F288	Test Engineer: LiuH
EUT: Wireless Power Bank	Temperature: 26°C
M/N: KT-D009	Humidity: 56%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-07-01
Test Mode: USB-C Input+ Wireless Charging (5W)	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.162	34.34	10.66	45.00	65.36	-20.36	QP	N
2*	0.442	30.58	10.83	41.41	57.02	-15.62	QP	N
3*	1.046	29.85	10.86	40.71	56.00	-15.29	QP	N
4*	2.566	27.63	11.19	38.82	56.00	-17.18	QP	N
5*	3.990	24.66	11.27	35.93	56.00	-20.07	QP	N
6*	16.762	27.68	11.70	39.38	60.00	-20.62	QP	N
7*	0.166	23.50	10.64	34.14	55.16	-21.01	AV	N
8*	0.442	23.51	10.83	34.34	47.02	-12.68	AV	N
9*	1.034	21.31	10.86	32.17	46.00	-13.83	AV	N
10*	2.950	18.58	11.23	29.81	46.00	-16.19	AV	N
11*	5.902	16.56	11.35	27.91	50.00	-22.09	AV	N
12*	17.022	17.98	11.71	29.69	50.00	-20.31	AV	N

Appendix B: Photographs of the Test Set-Up

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Photograph 1: Set-up photo for Radiated Emission, 9KHz - 30MHz



Photograph 2: Set-up photo for Radiated Emission, 30MHz - 1GHz



Photograph 3: Set-up photo for Conducted Emission on AC Mains

