

Prüfbericht-Nr.: <i>Test report no.:</i>	CN224RW6 001	Auftrags-Nr.: <i>Order no.:</i>	168345821	Seite 1 von 17 Page 1 of 17
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2021-12-01	
Auftraggeber: <i>Client:</i>	Lenovo (Beijing) Limited No.6 Chuang Ye Road, Shangdi Information Industry Base, Haidian District, Beijing, China			
Prüfgegenstand: <i>Test item:</i>	Lenovo Go Wireless Mobile Power Bank			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	PBLG1W			
Auftrags-Inhalt: <i>Order content:</i>	Test report			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2021-12-02	Please refer to Photo Document		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003193139-001, 002			
Prüfzeitraum: <i>Testing period:</i>	2021-12-03 – 2022-01-10			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i> 2022-01-24	Ausstellungsdatum: <i>Issue date:</i> 2022-01-25			
Stellung / Position:	Senior Project Engineer	Stellung / Position:	Department Manager	
Sonstiges / Other:	FCC ID: A5MPBLG1W			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor 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 a. m. 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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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: Photographs of the Test Set-up

Appendix B: Test Results.

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

362 Huanguan Road Middle Longhua District, Shenzhen 518110 People's Republic of China

FCC Accreditation Designation No.: CN1260

ISED wireless device testing laboratory: 25069, CAB identifier: CN0078

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Unwanted Emission Testing (TS9975)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	10.08.2022
Signal Analyzer	R&S	FSV 40	101439	09.08.2022
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	09.08.2022
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	09.08.2022
Amplifier	R&S	SCU-18F	180070	09.08.2022
Amplifier	R&S	SCU40A	100475	09.08.2022
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	08.08.2022
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	08.08.2022
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	08.08.2022
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	13.09.2022
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	22.06.2024
EMI Test Receiver	R&S	ESR 7	102021	10.08.2022

Conducted Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102428	10.08.2022
Artificial Mains Network	R&S	ENV216	102333	10.08.2022
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A

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.

Parameter	Uncertainty
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.70 dB / ± 3.30 dB
Radiated Emission (3m SAC), 30MHz to 1000MHz	± 4.52 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 (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 362 Huanguan Road Middle Longhua District, Shenzhen 518110 People's Republic of 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 EUT is a Lenovo Go Wireless Mobile Power Bank which supports wireless charging (WPT) technology.

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

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
FCC ID:	A5MPBLG1W
Product name:	Lenovo Go Wireless Mobile Power Bank
Type Number:	PBLG1W
Operating Voltage:	USB-C / Type-C Input: DC 5V, 3A or DC 9V, 3A USB-C / Type-C Output: DC 5V, 3A or DC 9V, 3A DC 7.7V, 5000mAh (38.5Wh) via internal lithium battery pack
Testing Voltage:	AC 120V, 60Hz via external AC/DC Adapter or DC 7.7V
Technical Specification of WPT	
Frequency Range:	111~205KHz
Type of Modulation:	FSK
Wireless output:	15W maximum

3.3 Independent Operation Modes

The basic operation modes are:

A. Discharging

1. WPT (Wireless load)
2. Type C port + WPT
3. Type C cable + WPT
4. Type C port + Type C cable + WPT

B. Charging + Discharging

1. Charging by type C port + WPT
2. Charging by type C port + Discharging by Type C cable + WPT
3. Charging by type C cable + WPT
4. Charging by type C cable + Discharging by Type C port + WPT

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form

- ID Label and Location Info

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

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.

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.

4.2 Test Operation and Test Software

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

4.3 Special Accessories and Auxiliary Equipment

Table 3: Auxiliary Equipment Used during Test

Description	Manufacturer	Model	S/N	Rating
GaN Fast Charger (3C1A) set	UGREEN	CD224	80766	Input: AC 100-240V, 50/60Hz, 1.8A max
Wireless charge Load	YBZ	/	/	/
Mobile Phone	HTC	D626w	/	/

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)

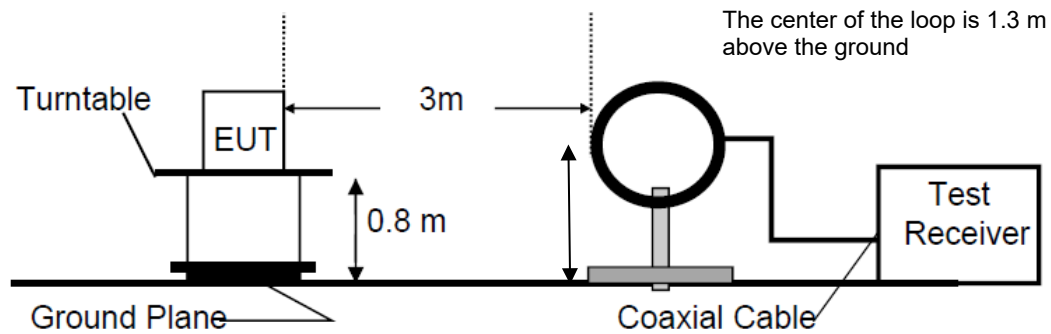


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

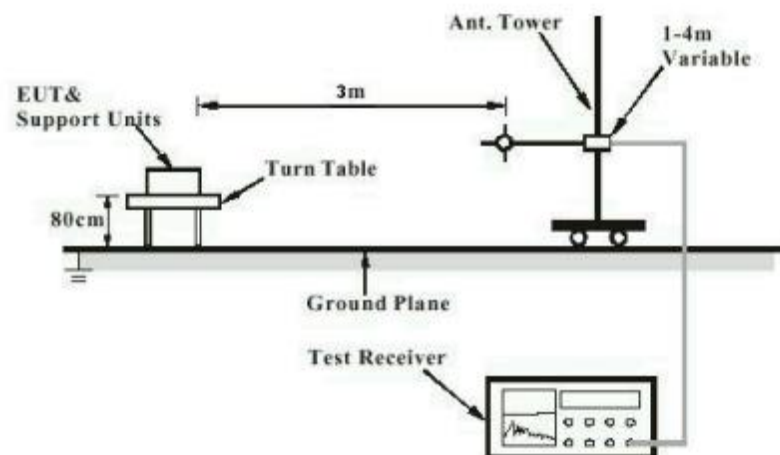


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

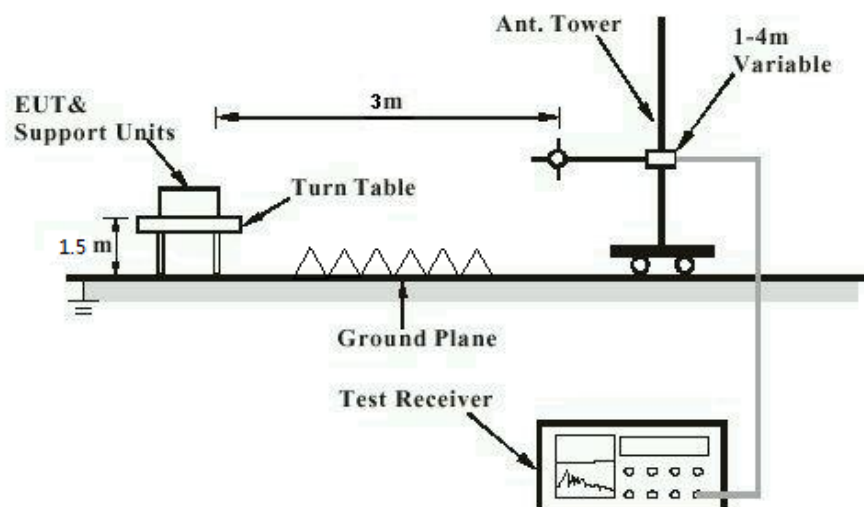
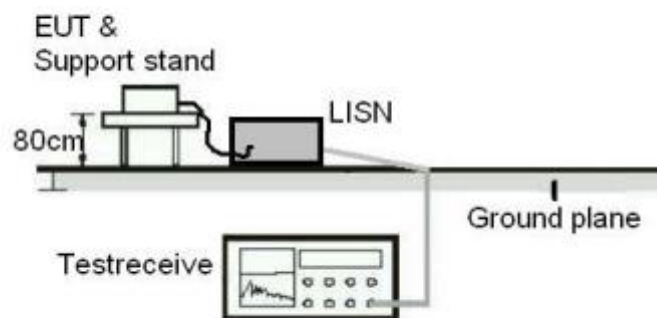


Diagram of Measurement Configuration for Mains Conduction Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard	:	FCC Part 15.203 RSS-Gen Clause 6.8
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has an 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 : 2021-12-03 – 2022-01-10
Input voltage : AC 120V, 60Hz or battery
Operation mode : A, B
Test channel : Low / Middle / High
Ambient temperature : 23 °C
Relative humidity : 55 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B & C.

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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 : 2021-12-03 – 2022-01-10
Input voltage : AC 120V, 60Hz or battery
Operation mode : A, B
Test channel : Low / Middle / High
Ambient temperature : 23 °C
Relative humidity : 55 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B & C.

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	: 2021-12-03 – 2022-01-10
Input voltage	: AC 120V, 60Hz or battery
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 23 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix B & C.

Note1:

Measurements are to be taken in dBuV/m, corrected, and the end result shall be mathematically converted to the dBuA/m for RSS and presented against the correct limit.

$E [dB\mu A/m] = AF [dBS/m] + V [dB\mu V] + \text{Cable loss [dB]}$

E [dBuA/m] is the magnetic field strength (Final Test results)

AF [dBS/m] is the magnetic antenna factor of the antenna (H-field)

V [dBuV] is the reading level on the spectrum analyzer

Note that when using the AF [dBS/m] the 51.5 dB is already account for into the antenna factor.

Note2: This products are portable device, so radiated spurious emissions were performed on the EUT rotated in each of three orthogonal axis positions, only the worst case (EUT in horizontal X orthogonal orientation) recorded.

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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)
RSS-216 Clause 6.2.2.1

Kind of test site : Shielded Room

Test Setup

Date of testing : 2021-12-03 – 2022-01-10

Input voltage : AC 120V, 60Hz or battery

Operation mode : A, B

Earthing : Not connected

Ambient temperature : 23.1 °C

Relative humidity : 52 %

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B & C.

6 Photographs of the Test Set-Up

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

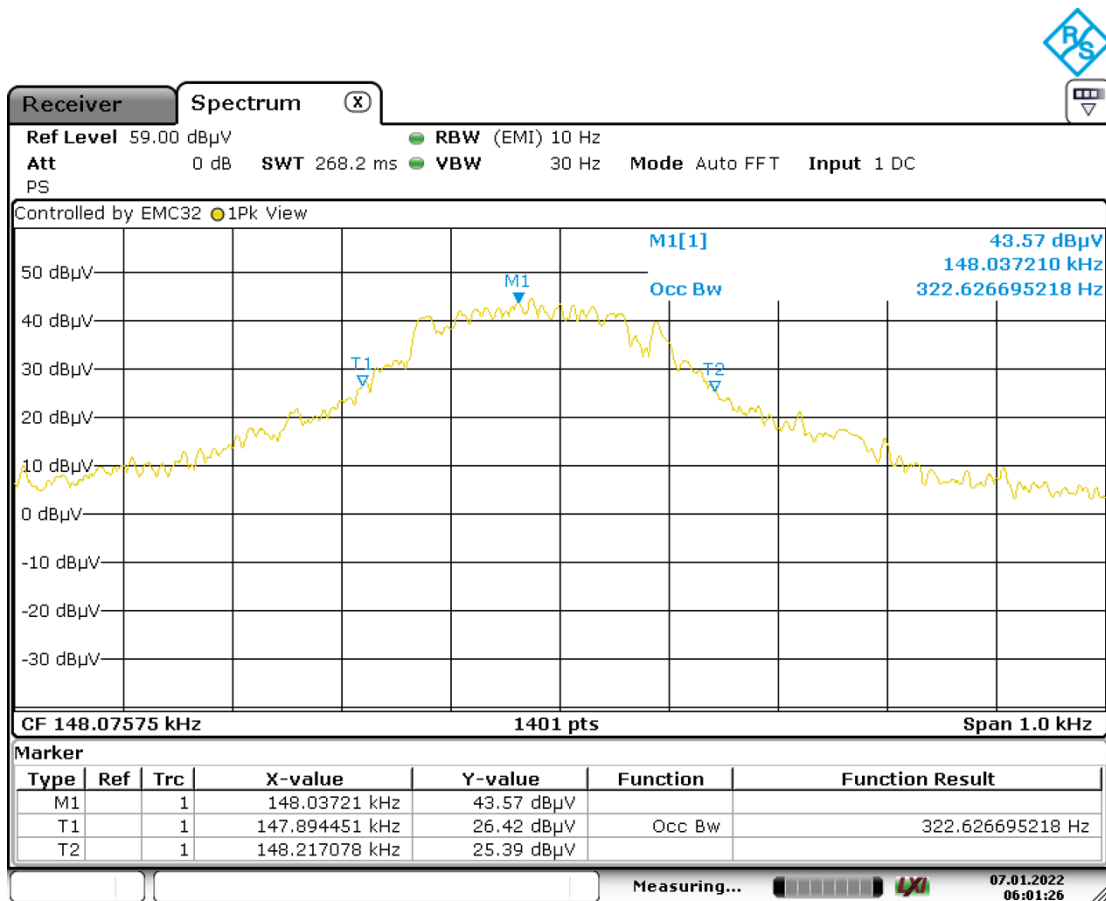
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Appendix B: Test Results

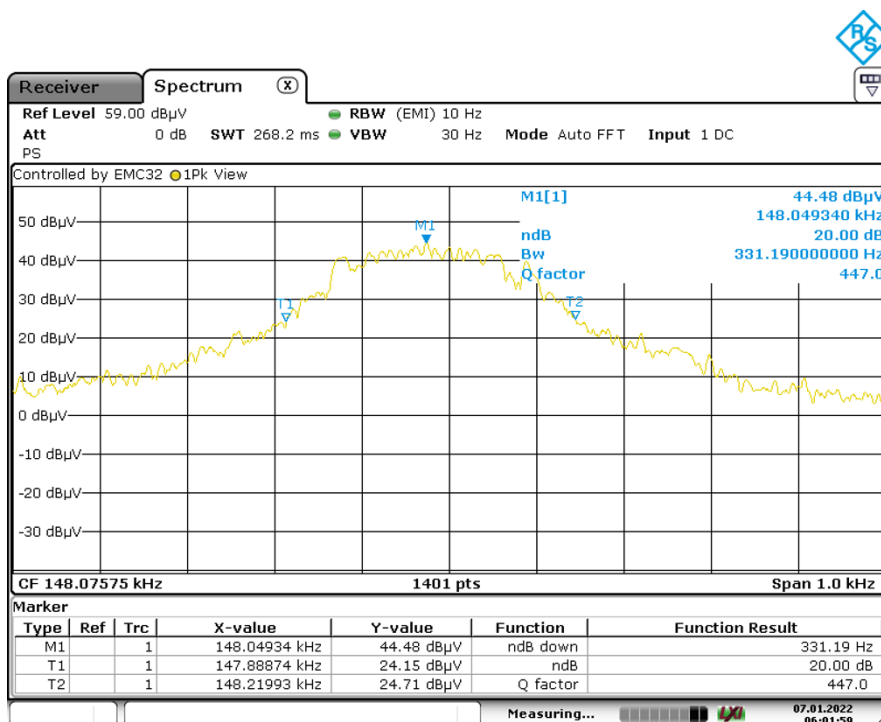
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Appendix B.1: Test Plots of 99% Bandwidth



Date: 7.JAN.2022 06:01:26

Appendix B.2: Test Plots of 20dB Bandwidth



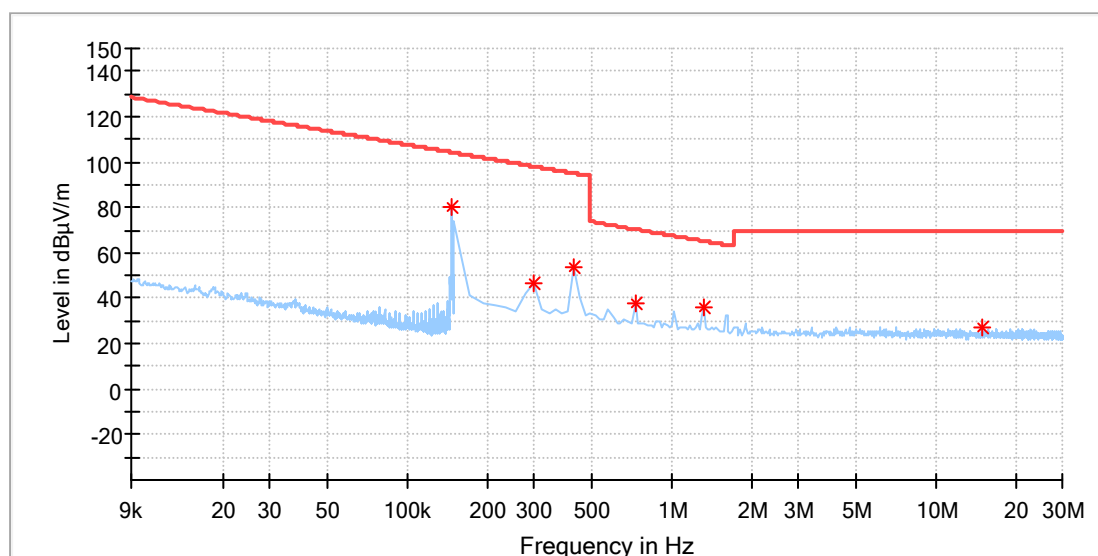
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Appendix B.3: Test Plots of Radiated Spurious Emission

9kHz-30MHz

EUT Information

EUT Name:	Lenovo Go Wireless Mobile Power Bank
Model:	PBLG1W
Test Mode:	WPT (Wireless load)
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

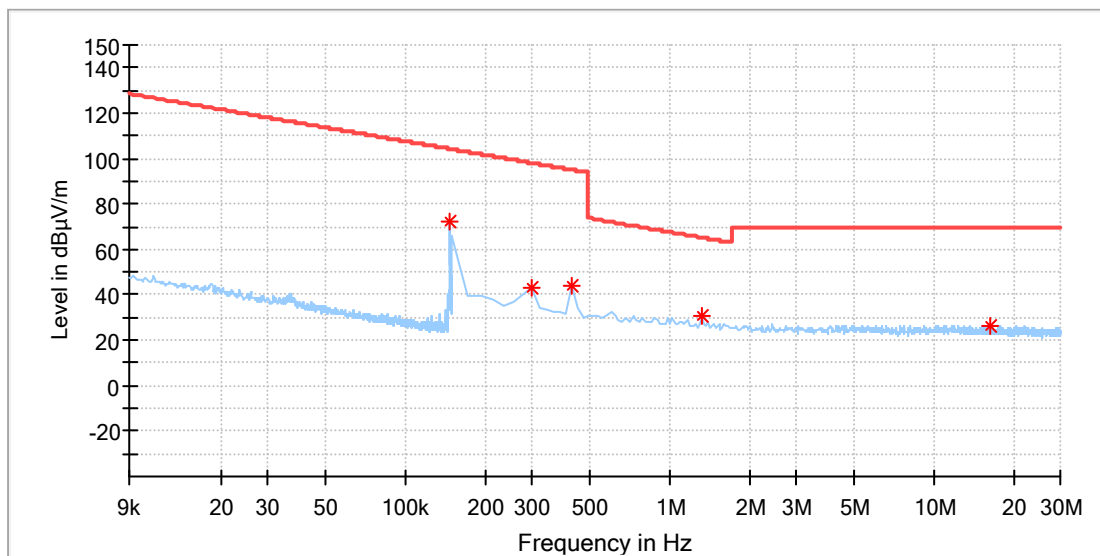


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.147180	80.44	104.24	23.80	100.0	X	56.0	20.1
0.299250	46.46	98.08	51.62	100.0	X	94.0	20.1
0.427179	53.42	94.99	41.57	100.0	X	48.0	20.1
0.725679	38.02	70.40	32.38	100.0	X	357.0	20.1
1.322679	36.30	65.20	28.90	100.0	X	48.0	20.1
14.819143	27.08	69.50	42.42	100.0	X	4.0	20.5

EUT Information

EUT Name: Lenovo Go Wireless Mobile Power Bank
Model: PBLG1W
Test Mode: WPT (Wireless load)
Test Voltage:: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC Part 15C
Tested By: Kei Zhang
Reviewed By: Terry Yin

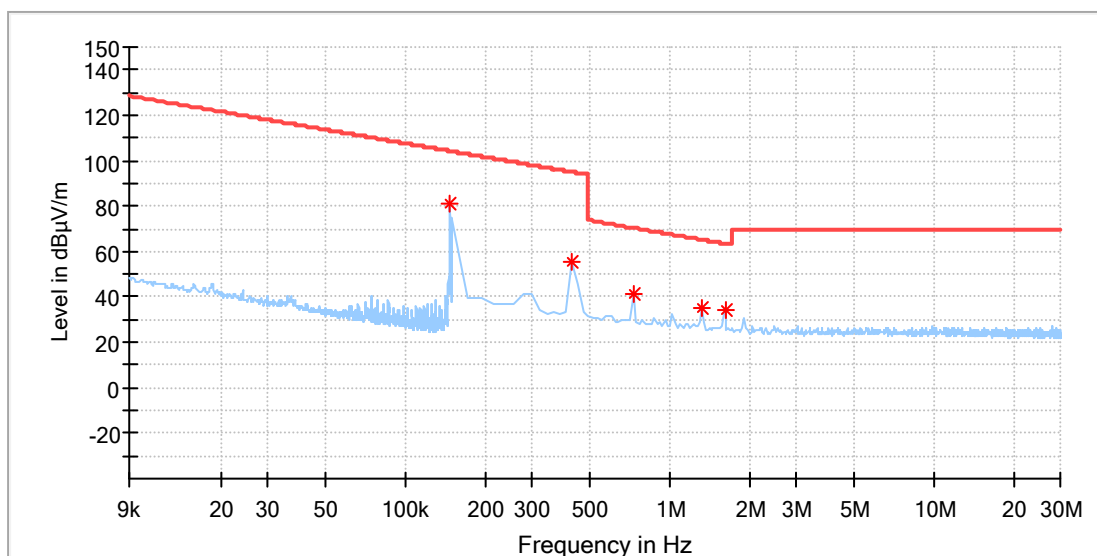


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.147381	71.81	104.23	32.42	100.0	Y	328.0	20.1
0.299250	42.82	98.08	55.26	100.0	Y	351.0	20.1
0.427179	44.37	94.99	50.62	100.0	Y	304.0	20.1
1.322679	30.97	65.20	34.23	100.0	Y	162.0	20.1
16.354286	26.33	69.50	43.17	100.0	Y	47.0	20.5

EUT Information

EUT Name:	Lenovo Go Wireless Mobile Power Bank
Model:	PBLG1W
Test Mode:	WPT (Wireless load)
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



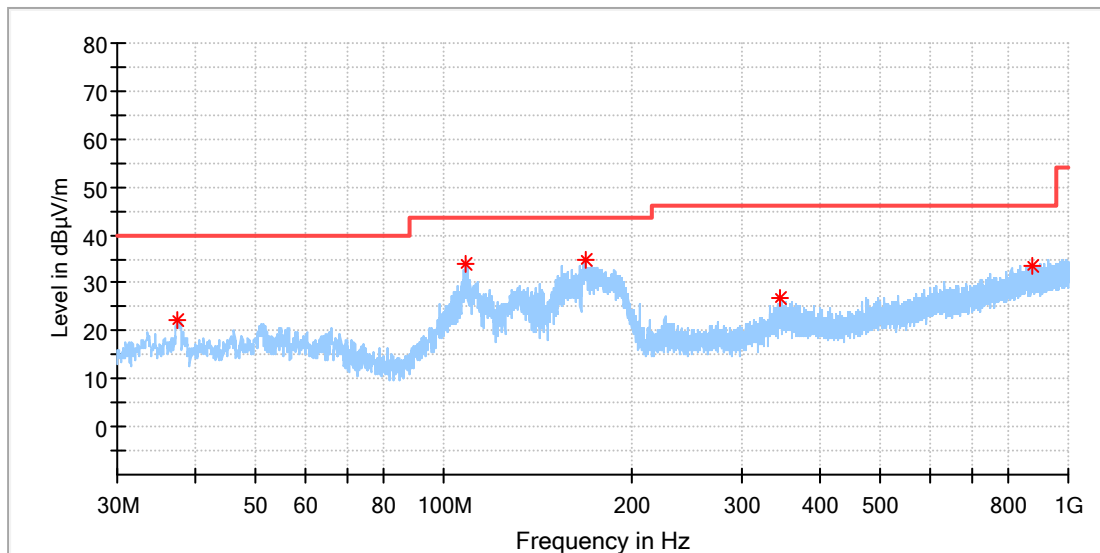
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.147381	81.39	104.23	22.83	100.0	Z	46.0	20.1
0.427179	55.14	94.99	39.85	100.0	Z	24.0	20.1
0.725679	40.97	70.40	29.43	100.0	Z	4.0	20.1
1.322679	34.99	65.20	30.21	100.0	Z	96.0	20.1
1.621179	34.48	63.44	28.95	100.0	Z	310.0	20.2

30MHz-1GHz

EUT Information

EUT Name:	Lenovo Go Wireless Mobile Power Bank
Model:	PBLG1W
Test Mode:	WPT (Wireless load)
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

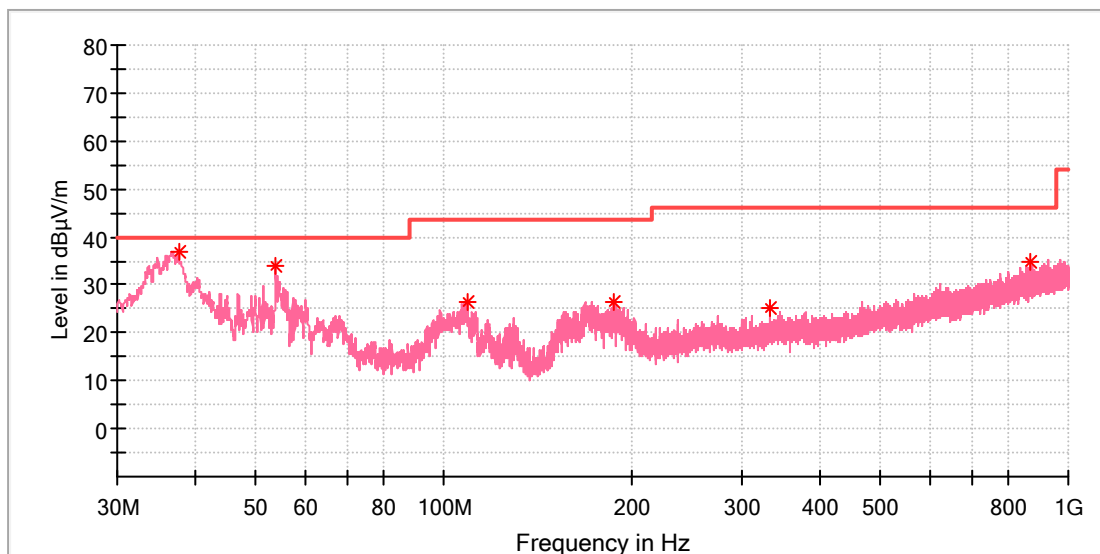


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.469000	22.38	40.00	17.62	100.0	H	341.0	-21.0
108.376000	33.89	43.50	9.61	100.0	H	187.0	-19.0
168.273500	34.80	43.50	8.70	100.0	H	240.0	-21.3
344.910500	26.75	46.00	19.25	100.0	H	4.0	-14.8
874.094000	33.54	46.00	12.46	100.0	H	283.0	-5.2

EUT Information

EUT Name:	Lenovo Go Wireless Mobile Power Bank
Model:	PBLG1W
Test Mode:	WPT (Wireless load)
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



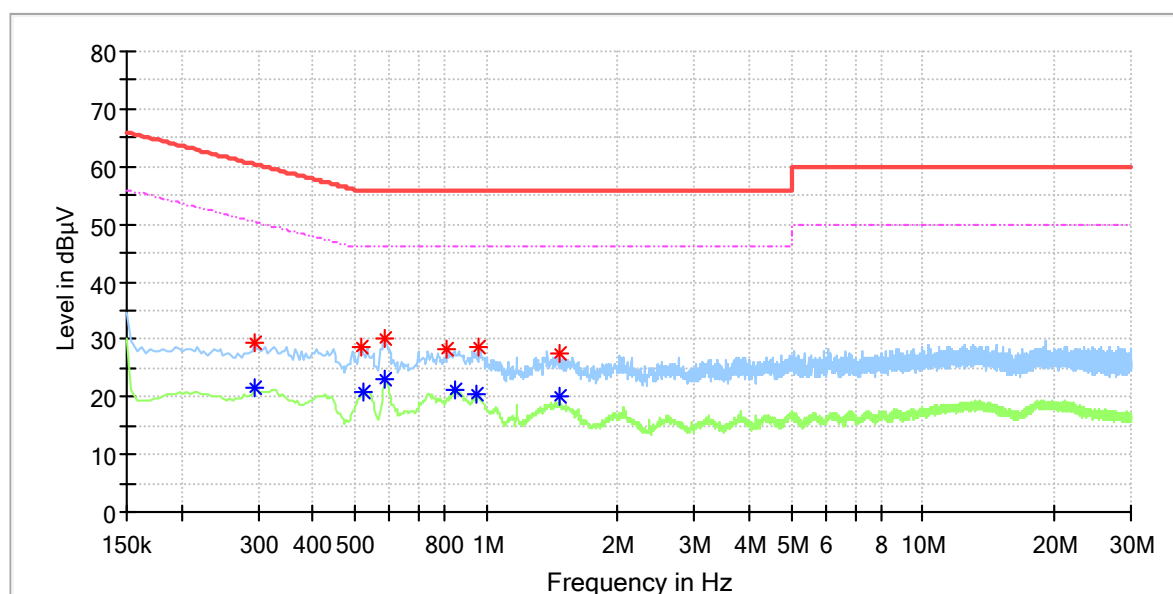
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.663000	36.95	40.00	3.05	100.0	V	185.0	-20.9
53.765000	33.87	40.00	6.13	100.0	V	203.0	-18.4
109.055000	26.28	43.50	17.22	100.0	V	166.0	-19.0
186.800500	26.50	43.50	17.00	100.0	V	147.0	-19.9
332.058000	25.35	46.00	20.65	100.0	V	319.0	-15.4
868.662000	34.65	46.00	11.35	100.0	V	10.0	-5.2

Appendix B.4: Test Plots of Conducted Emission on AC Mains

EUT Information

EUT Name: Lenovo Go Wireless Mobile Power Bank
Model: PBLG1W
Test Mode: Charging by type-C cable+ Discharging by Type C port &WPT
Test Voltage: AC 120V/60Hz
Test By: Kevin Zhou
Review By: Gary Chen
Remark: SR1

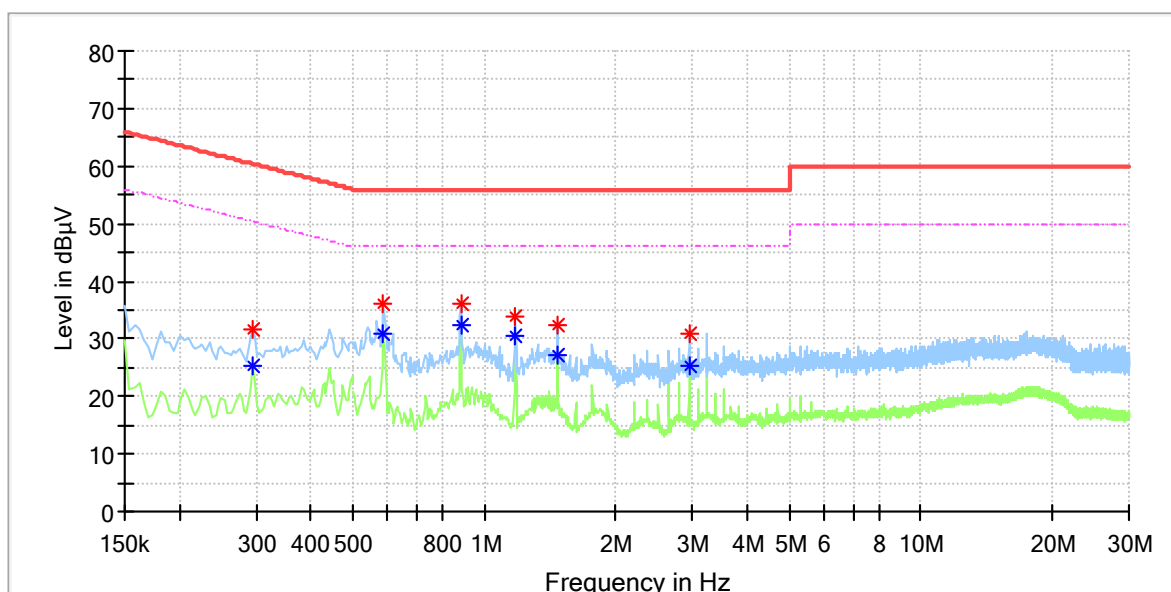


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.294000	---	21.43	50.41	28.98	L1	9.6
0.294000	29.36	---	60.41	31.05	L1	9.6
0.516000	28.66	---	56.00	27.34	L1	9.7
0.524000	---	20.99	46.00	25.01	L1	9.7
0.584000	30.07	---	56.00	25.93	L1	9.7
0.588000	---	23.05	46.00	22.95	L1	9.7
0.812000	28.27	---	56.00	27.73	L1	9.7
0.844000	---	21.04	46.00	24.96	L1	9.7
0.944000	---	20.36	46.00	25.64	L1	9.7
0.960000	28.65	---	56.00	27.35	L1	9.7
1.472000	27.37	---	56.00	28.63	L1	9.7
1.472000	---	19.96	46.00	26.04	L1	9.7

EUT Information

EUT Name: Lenovo Go Wireless Mobile Power Bank
Model: PBLG1W
Test Mode: Charging by type-C cable+ Discharging by Type C port &WPT
Test Voltage: AC 120V/60Hz
Test By: Kevin Zhou
Review By: Gary Chen
Remark: SR1

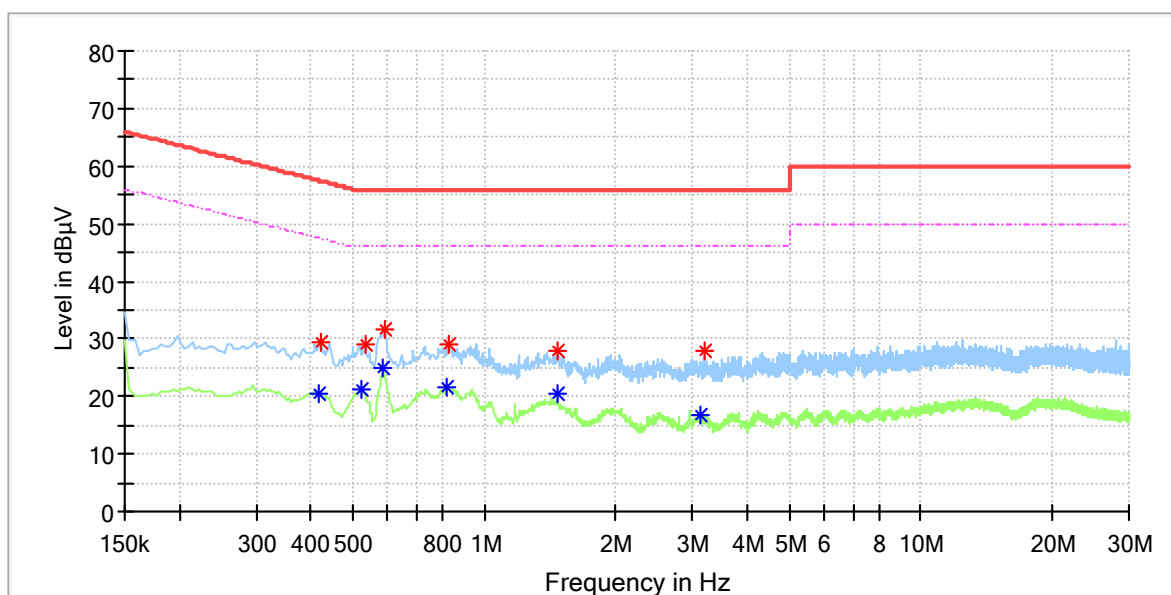


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.294000	31.60	---	60.41	28.81	N	9.6
0.294000	---	25.27	50.41	25.14	N	9.6
0.588000	---	30.73	46.00	15.27	N	9.7
0.588000	36.12	---	56.00	19.88	N	9.7
0.884000	36.25	---	56.00	19.75	N	9.7
0.884000	---	32.53	46.00	13.47	N	9.7
1.176000	---	30.36	46.00	15.64	N	9.7
1.180000	33.76	---	56.00	22.24	N	9.7
1.472000	---	27.02	46.00	18.98	N	9.7
1.476000	32.54	---	56.00	23.46	N	9.7
2.948000	30.76	---	56.00	25.24	N	9.9
2.948000	---	25.29	46.00	20.71	N	9.9

EUT Information

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Remark: SR1

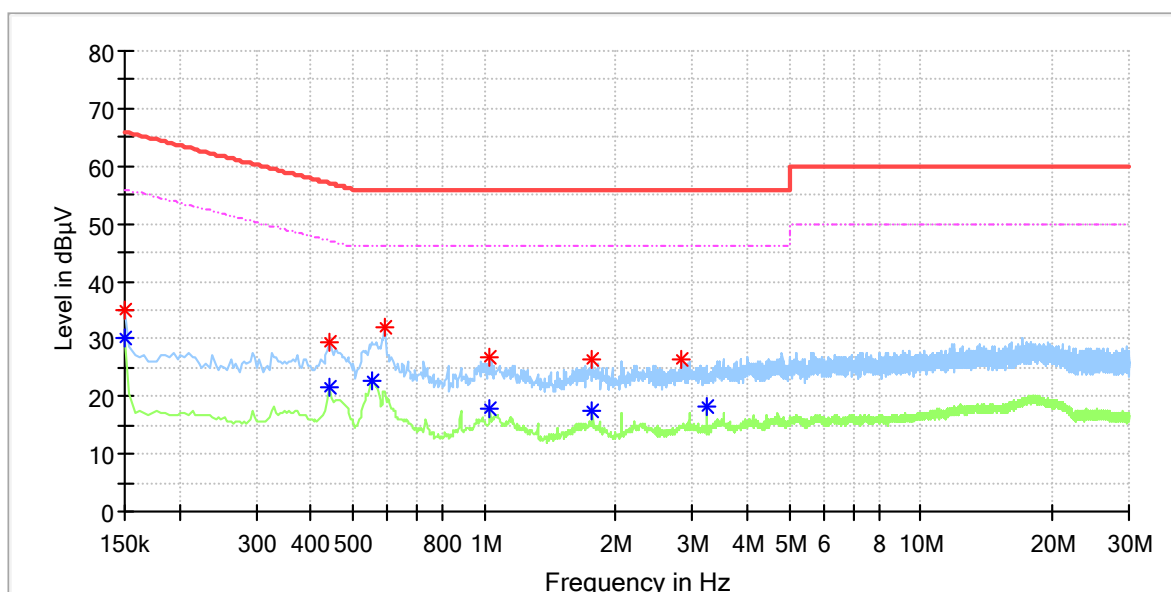


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.418000	---	20.60	47.49	26.88	L1	9.7
0.422000	29.24	---	57.41	28.17	L1	9.7
0.524000	---	21.03	46.00	24.97	L1	9.7
0.532000	28.91	---	56.00	27.09	L1	9.7
0.588000	---	25.07	46.00	20.93	L1	9.7
0.592000	31.73	---	56.00	24.27	L1	9.7
0.816000	---	21.52	46.00	24.48	L1	9.7
0.832000	29.03	---	56.00	26.97	L1	9.7
1.472000	---	20.44	46.00	25.56	L1	9.7
1.472000	27.87	---	56.00	28.13	L1	9.7
3.144000	---	16.82	46.00	29.18	L1	9.9
3.184000	28.06	---	56.00	27.94	L1	9.9

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Test Mode: Charging by type-C port+ Discharging by Type C cable &WPT
Test Voltage: AC 120V/60Hz
Test By: Kevin Zhou
Review By: Gary Chen
Remark: SR1



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	35.04	---	66.00	30.96	N	9.6
0.150000	---	30.32	56.00	25.68	N	9.6
0.442000	---	21.57	47.02	25.45	N	9.7
0.442000	29.54	---	57.02	27.48	N	9.7
0.552000	---	22.56	46.00	23.44	N	9.7
0.592000	31.99	---	56.00	24.01	N	9.7
1.028000	26.86	---	56.00	29.14	N	9.7
1.028000	---	17.80	46.00	28.20	N	9.7
1.768000	---	17.45	46.00	28.55	N	9.7
1.768000	26.32	---	56.00	29.68	N	9.7
2.836000	26.31	---	56.00	29.69	N	9.9
3.240000	---	18.30	46.00	27.70	N	9.9