

Prüfbericht-Nr.: <i>Test report no.:</i>	CN22643P 001	Auftrags-Nr.: <i>Order no.:</i>	168395336	Seite 1 von 23 <i>Page 1 of 23</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2022-10-18	
Auftraggeber: <i>Client:</i>	Motorola Mobility LLC 222 W. Merchandise Mart Plaza, Chicago, IL 60654, United States			
Prüfgegenstand: <i>Test item:</i>	TURBOPOWER 15W WIRELESS CHARGING STAND			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	MW-03 (Trademark: )			
Auftrags-Inhalt: <i>Order content:</i>	Type test			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 15: Subpart B Section 15.107 CFR47 FCC Part 15: Subpart B Section 15.109			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2022-10-28	Refer to photos document		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003361759-001 to 011			
Prüfzeitraum: <i>Testing period:</i>	2022-11-04 – 2022-11-10			
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> 2022-11-24				
	Signed by: Alex Lan		Signed by: Hardy Suo	
Stellung / Position	Assistant Project Manager	Stellung / Position	Reviewer	
Sonstiges / Other:	FCC ID: IHDT6AA3			
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 specifications(s) F(ail) = failed a.m. test specifications(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 20dB BANDWIDTH

RESULT: Pass

5.1.3 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.4 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

5.1.5 RADIATED EMISSION

RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS

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 Result.

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of China

FCC Registration No.: 694916

IC Registration No.: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing				
Description	Manufacturer	Model	Serial No.	Cal. Until
Signal Analyzer	R&S	FSV 40	101441	2023-08-01
Vector Signal Generator	R&S	SMBV100A	263301	2023-08-01
Signal Generator	R&S	SMB100A	115186	2023-08-01
OSP	R&S	OSP 150	101017	2022-12-02
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A
Test Software	R&S	WMS32 (V11.00.00)	N/A	N/A
Humid & Temp Programmable Tester	BOST	NTH090-60	19040801	2023-04-02
Shielding Room 8#	Albatross	SR8	APC17151-SR8	2024-06-22
Unwanted Emission Testing				
Description	Manufacturer	Model	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR 7	102021	2024-08-02
Signal Analyzer	R&S	FSV 40	101439	2024-08-01
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	2024-08-01
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2024-08-02
Amplifier	R&S	SCU-18F	180070	2024-08-02
Amplifier	R&S	SCU40A	100475	2024-08-02
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2024-08-06
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2024-08-06
Wideband Ridged Horn Antenna (18- 40 GHz)	Steatite	QMS-00880	19067	2024-08-07
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2024-08-06
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	2024-06-22

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Conducted Emission

Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102680	2023-02-27
Artificial Mains Network	R&S	ENV216	101445	2023-02-27
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A

Radiated Emission, 3m chamber

Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
3m SAC	ETS-Lindgren	SAC3	CT001632-Q1362	2024-04-26
EMI Test Receiver	R&S	ESR7	102111	2022-12-01
Horn Antenna	R&S	HF907	102706	2023-08-08
Preamplifier (1-18GHz)	FIT	SCU-18F	180077	2023-08-01
Trilog-Broadband antenna	SCHWARZBECK	VULB9168	0945	2023-08-03
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A

RF Exposure

Electric and Magnetic field Probe – Analyzer	Narda	EHP-200A	180ZX20517	2023-09-28
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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

Test	Parameters	Expanded uncertainty (U_{lab})	Expanded uncertainty (U_{cisp})
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 3.70 dB ± 3.30 dB	± 3.8 dB ± 3.4 dB
Radiated Emission (3m SAC)	Level accuracy (30MHz to 1000MHz)	± 4.52 dB	± 6.3 dB
	Level accuracy (above 1000MHz)	± 4.37 dB	N/A

2.6 Location of Original Data

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

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 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 device is a TURBOPOWER 15W WIRELESS CHARGING STAND, which supports wireless charging function.

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
Kind of Equipment	TURBOPOWER 15W WIRELESS CHARGING STAND
Type Designation	MW-03
FCC ID	IHDT6AA3
Trade Mark	
Input Voltage	DC 5.0-12.0V, 2.0A via AC/DC Adapter
Test Voltage	AC 120V, 60Hz
Technical Specification of WPT	
Operating Frequency	111-205KHz
Extreme Temperature Range	-10°C - +40°C
Modulation	FSK
Antenna Type	Induction coil
Antenna Gain	0 dBi
Wireless output	15W maximum

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Wireless charging
- B. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Block Diagram
- Schematics
- User Manual

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 & ANSI C63.4: 2014

4.3 Special Accessories and Auxiliary Equipment

Table 3: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N or rating
Electrical Load	Salom	N/A	N/A
AC/DC Adapter	HECHO	MC-1251	Rating input: AC 100-240V, 50/60Hz, 1.7A Rating output: DC 5-20V, 6.25A, 125W max

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)

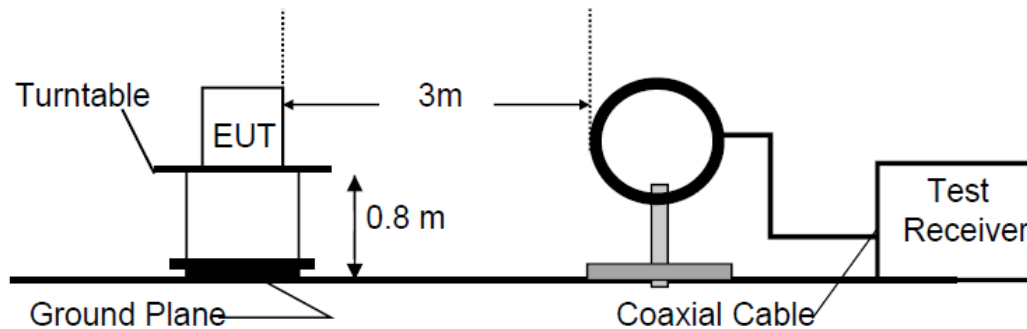


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

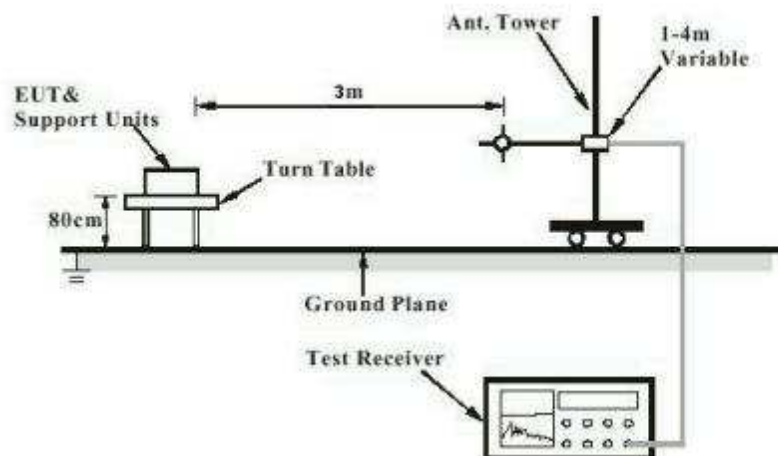
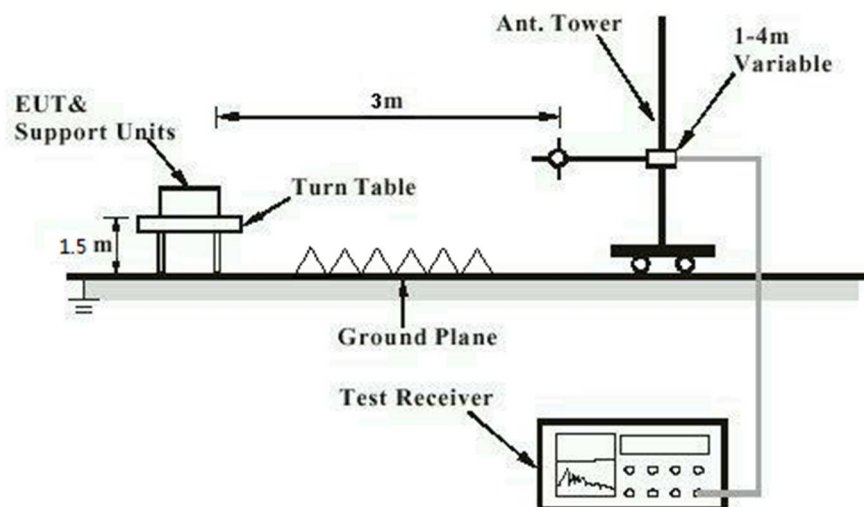


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



A

Diagram of Measurement Configuration for Conducted Transmitter Measurement

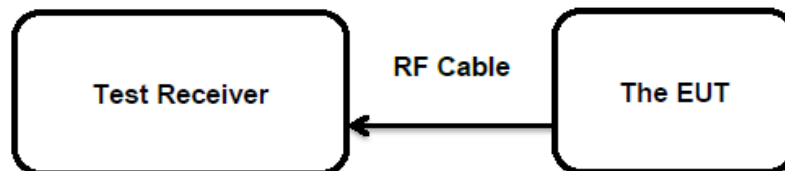
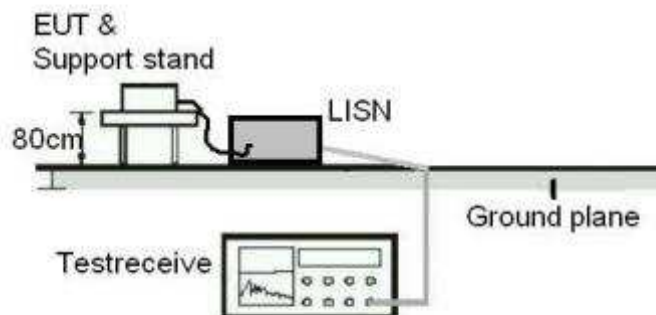


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites for WPT

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard	:	Part 15.203
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has one internal antenna, the directional gain of antenna is 0 dBi, and the antenna connector is designed with 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 20dB Bandwidth

RESULT:

Pass

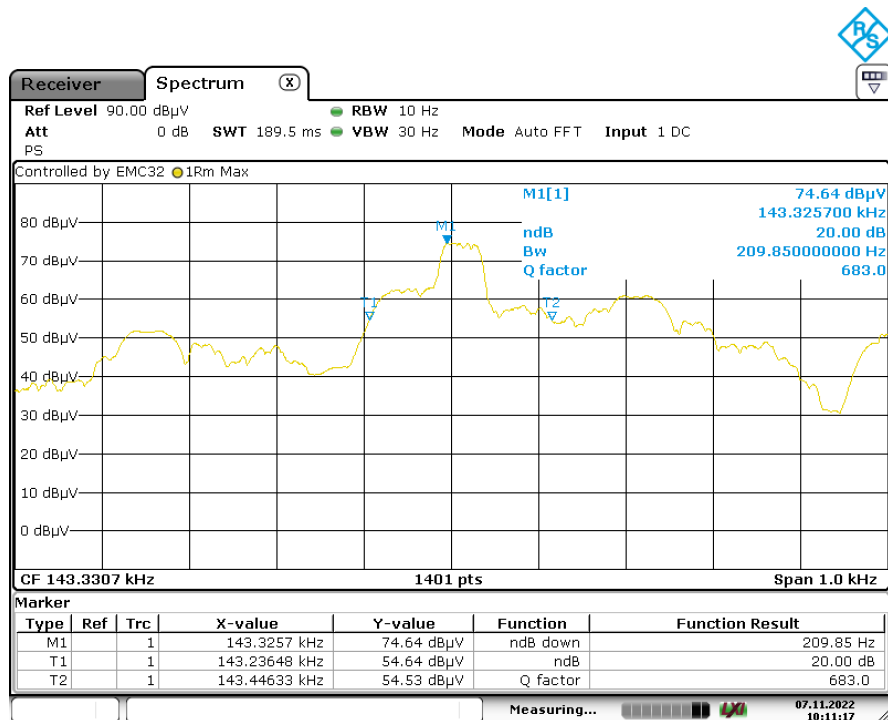
Test Specification

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

Test Setup

Date of testing : 2022-11-07
Input voltage : AC 120V, 60Hz
Operation mode : A
Ambient temperature : 25 °C
Relative humidity : 56 %
Atmospheric pressure : 101 kPa

For details refer to following test result.



Date: 7.NOV.2022 10:11:18

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5.1.3 Radiated Spurious Emission

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.201
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to 15.209(a)
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2022-11-07
Input voltage	: AC 120V, 60Hz
Operation mode	: A
Ambient temperature	: 22 °C
Relative humidity	: 52 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.4 Conducted Emission on AC Mains

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.207(a), FCC Part 15.107(a)
Basic standard	: ANSI C63.4: 2014, ANSI C63.10: 2013
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a), FCC Part 15.107(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2022-11-04
Input voltage	: AC 120V/60Hz
Operation mode	: A
Earthing	: Not connected
Ambient temperature	: 24.6 °C
Relative humidity	: 49.6 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.5 Radiated Emission

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.109(a)
Basic standard	: ANSI C63.4: 2014
Frequency range	: 30 - 1000MHz *
Classification	: Class B
Limit	FCC Part 15.109(a)
Kind of test site	: 10m Semi-anechoic Chamber & 3m Full-anechoic Chamber

Test Setup

Date of testing	: 2022-11-05
Input voltage	: AC 120V, 60Hz
Operation mode	: B
Earthing	: Not Connected
Ambient temperature	: 24.3 °C
Relative humidity	: 51.6 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

Remark: *- The highest frequency of internal sources of EUT is less than 108MHz, the measurement shall only be made up to 1GHz.

6 Safety Human Exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:

Pass

Test Specification

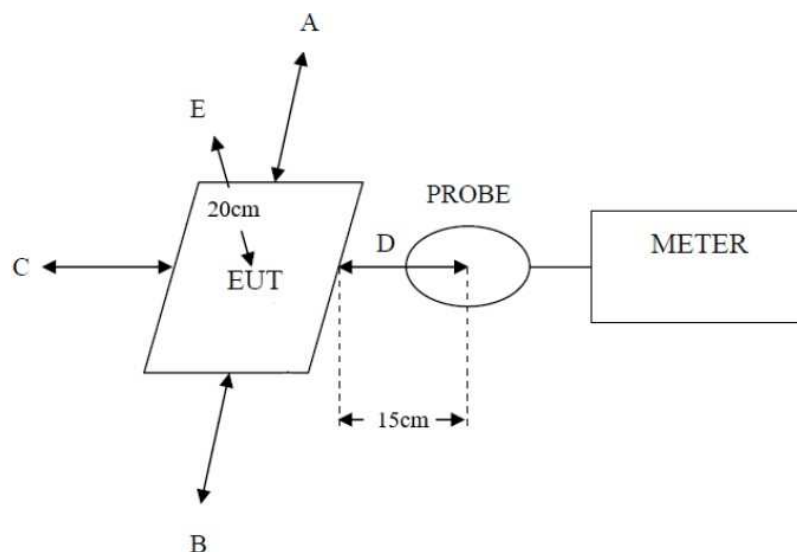
Test standard : CFR47 FCC Part 2: Subpart J Section 1.1310
FCC CFR 47 Part 1(1.1310) KDB 680106 D01 v03

According to the table 1 of FCC Part 2.1310, the reference limit as below:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

Test Setup:



Test Result:

Table: H-Field Strength at 15 cm from the edges surrounding the EUT and 20cm from the top surface of the EUT

EUT Test Mode	Measured H-Field Strength Values (A/m)					50% Limit (A/m)	Limit (A/m)	Result
	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E			
Device working at the maximum power	0.0735	0.1103	0.0817	0.1023	0.3767	0.815	1.63	Pass

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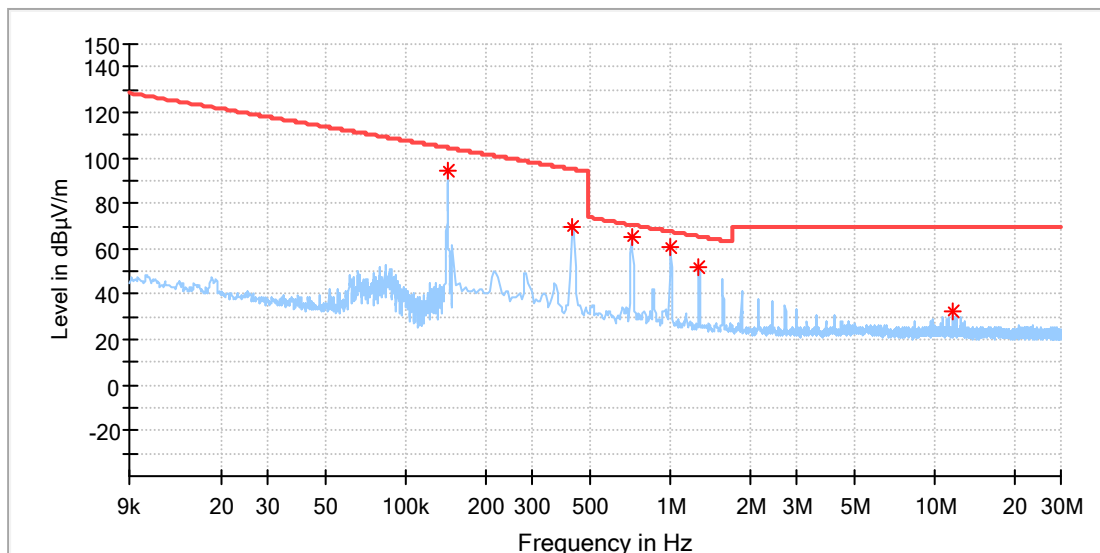
Appendix A Test Result

APPENDIX A.1: RADIATED SPURIOUS EMISSIONS.....2
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APPENDIX A.3: RADIATED EMISSIONS11

Appendix A.1: Radiated spurious emissions

EUT Information

EUT Name:	TURBOPOWER 15W WIRELESS CHARGING STAND
Model:	MW-03
Test Mode:	Charging
Order No/Sample No:	168395336/A003361759-002
Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

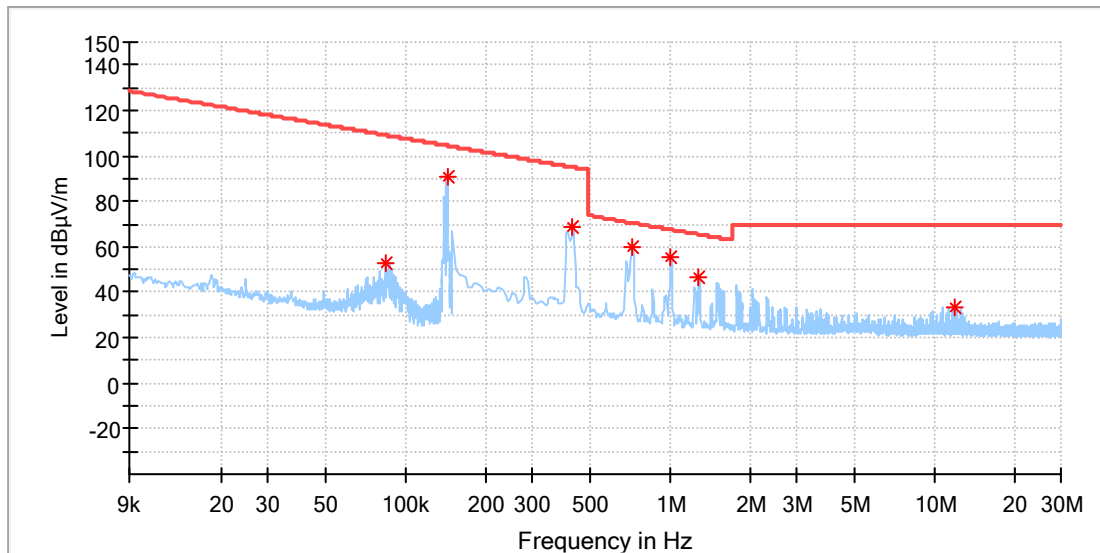


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.143353	94.68	104.47	9.79	100.0	X	180.0	20.1
0.426552	69.98	95.00	25.03	100.0	X	186.0	20.1
0.716272	64.93	70.51	5.58	100.0	X	186.0	20.1
1.001603	61.08	67.61	6.53	100.0	X	163.0	20.1
1.286934	51.91	65.44	13.53	100.0	X	348.0	20.1
11.607132	32.16	69.50	37.34	100.0	X	27.0	20.4

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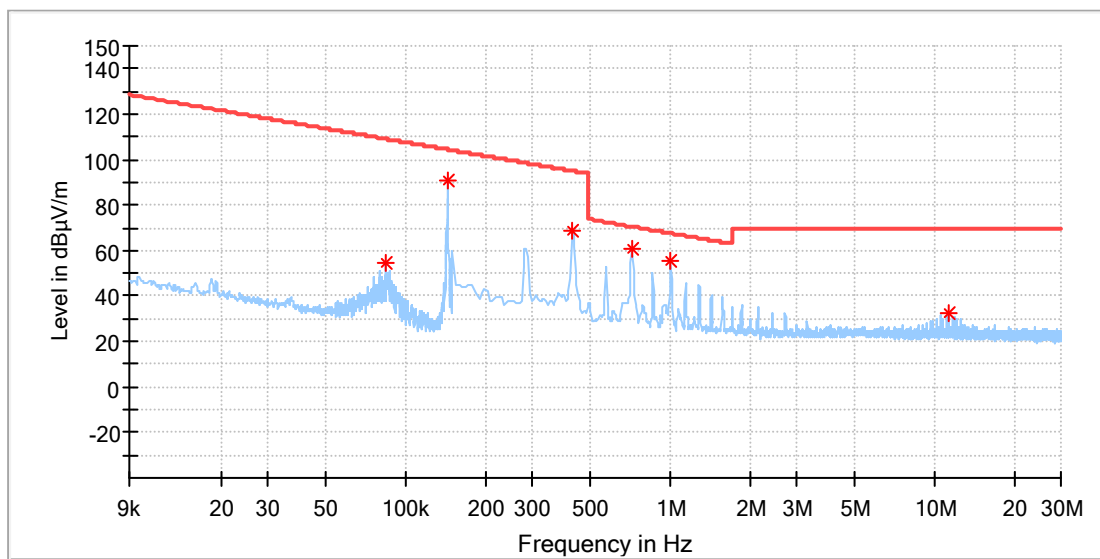


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.083428	53.02	109.17	56.15	100.0	Y	283.0	20.1
0.143353	91.20	104.47	13.27	100.0	Y	79.0	20.1
0.426552	68.69	95.00	26.32	100.0	Y	279.0	20.1
0.720662	60.10	70.46	10.36	100.0	Y	81.0	20.1
1.001603	55.65	67.61	11.96	100.0	Y	254.0	20.1
1.286934	46.34	65.44	19.10	100.0	Y	279.0	20.1
11.905632	33.35	69.50	36.15	100.0	Y	346.0	20.4

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EUT Name:	TURBOPOWER 15W WIRELESS CHARGING STAND
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Test Voltage::	120V/60Hz
Remark:	Temp 22 Humi:52%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

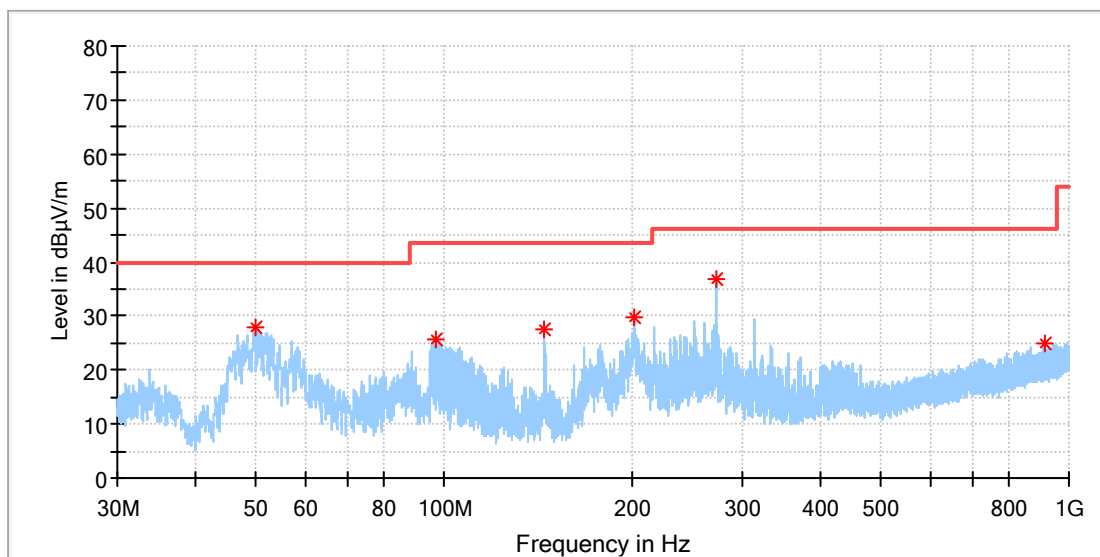


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.083327	54.44	109.18	54.74	100.0	Z	200.0	20.1
0.143353	90.74	104.47	13.73	100.0	Z	200.0	20.1
0.426552	68.87	95.00	26.13	100.0	Z	196.0	20.1
0.716272	61.18	70.51	9.33	100.0	Z	174.0	20.1
1.001603	55.34	67.61	12.27	100.0	Z	200.0	20.1
11.326191	32.59	69.50	36.91	100.0	Z	5.0	20.4

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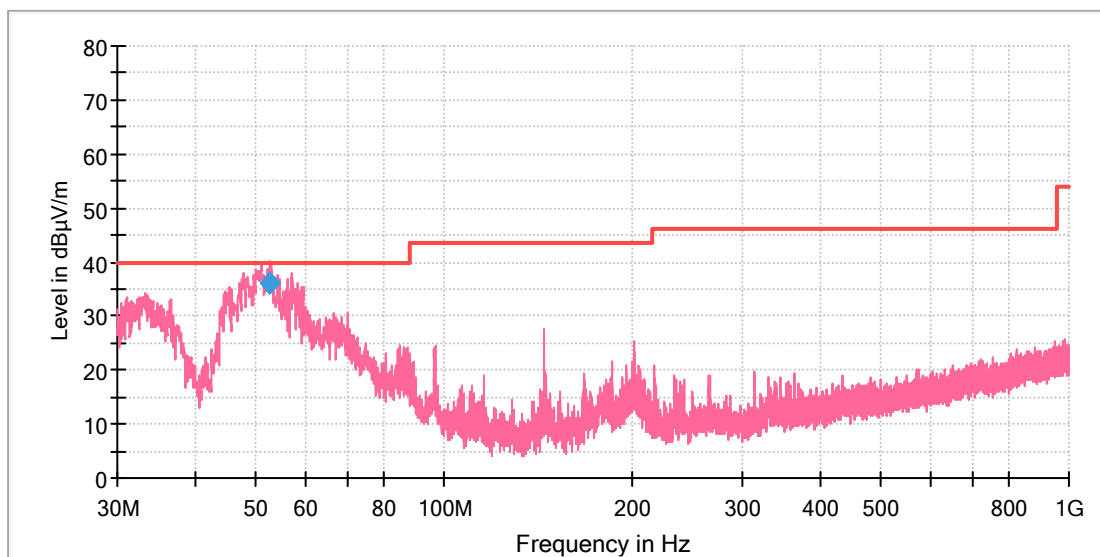


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.773077	28.03	40.00	11.97	100.0	H	246.0	-18.6
97.153846	25.86	43.50	17.64	100.0	H	0.0	-19.7
145.019615	27.38	43.50	16.12	100.0	H	246.0	-22.6
201.316923	29.72	43.50	13.78	100.0	H	68.0	-19.3
272.089615	37.02	46.00	8.98	100.0	H	147.0	-17.2
914.714615	24.98	46.00	21.02	100.0	H	287.0	-5.3

EUT Information

EUT Name:	TURBOPOWER 15W WIRELESS CHARGING STAND
Model:	MW-03
Test Mode:	Charging
Order No/Sample No:	168395336/A003361759-002
Test Voltage::	120V/60Hz
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)
52.403231	40.99	40.00	-0.99	100.0	V	317.0	-18.7
144.945000	27.37	43.50	16.13	100.0	V	319.0	-22.6
201.503462	25.25	43.50	18.25	100.0	V	319.0	-19.3
314.620385	19.77	46.00	26.23	100.0	V	172.0	-16.2
882.368846	24.24	46.00	21.76	100.0	V	205.0	-5.6

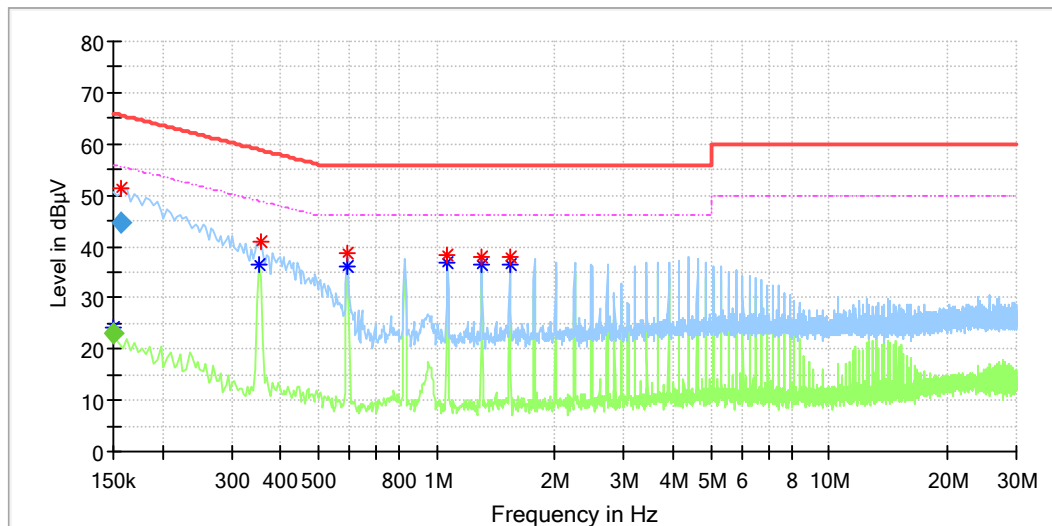
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
52.403231	36.13	40.00	3.87	100.0	V	317.0	-18.7

Appendix A.2: Conducted Emissions

EUT Information

EUT Name:	TURBOPOWER 15W WIRELESS CHARGING STAND
Order Number:	168395336 120
Model:	MW - 03
Test Mode:	ON (5W max)
Test Voltage:	AC 120V/60Hz
Test By./Review By:	Kevin Zhou/Gary Chen
Test Standard:	FCC Part 15B
Tem./Hum./Pressure:	24.6°C/49.6%/101kPa
Remark:	SR2



Critical Freqs

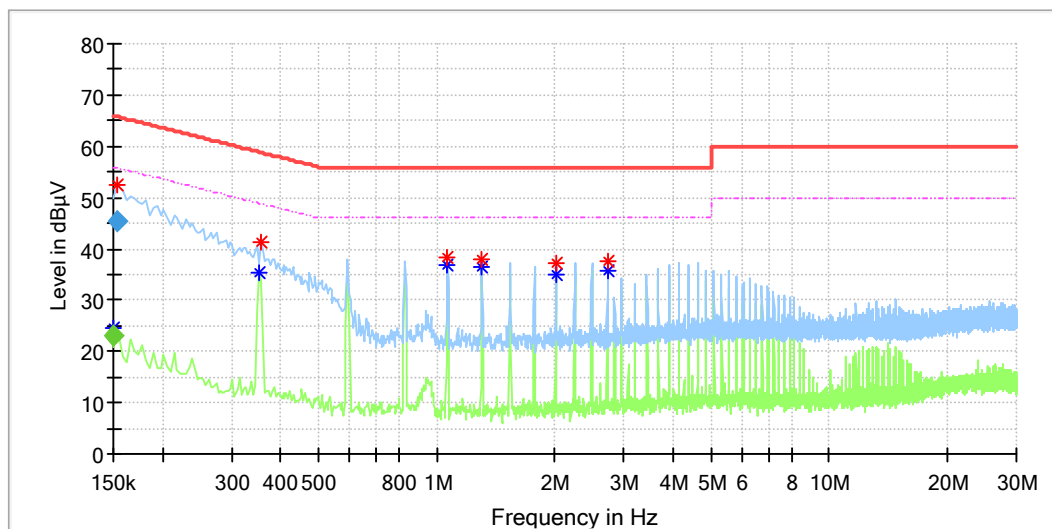
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	---	24.24	56.00	31.76	L1	9.9
0.157500	51.42	---	65.36	13.94	L1	9.9
0.354000	---	36.63	48.87	12.24	L1	9.9
0.358000	41.11	---	58.78	17.66	L1	9.9
0.590000	---	36.18	46.00	9.82	L1	10.0
0.594000	38.64	---	56.00	17.36	L1	10.0
1.066000	38.39	---	56.00	17.61	L1	10.0
1.066000	---	36.66	46.00	9.34	L1	10.0
1.302000	37.84	---	56.00	18.16	L1	10.1
1.302000	---	36.64	46.00	9.36	L1	10.1
1.538000	37.83	---	56.00	18.17	L1	10.1
1.538000	---	36.42	46.00	9.58	L1	10.1

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	---	23.03	56.00	32.97	1000.0	9.000	L1	9.9
0.157500	44.72	---	65.60	20.87	1000.0	9.000	L1	9.9

EUT Information

EUT Name:	TURBOPOWER 15W WIRELESS CHARGING STAND
Order Number:	168395336 120
Model:	MW - 03
Test Mode:	ON (5W max)
Test Voltage:	AC 120V/60Hz
Test By./Review By:	Kevin Zhou/Gary Chen
Test Standard:	FCC Part 15B
Tem./Hum./Pressure:	24.6°C/49.6%/101kPa
Remark:	SR2



Critical Freqs

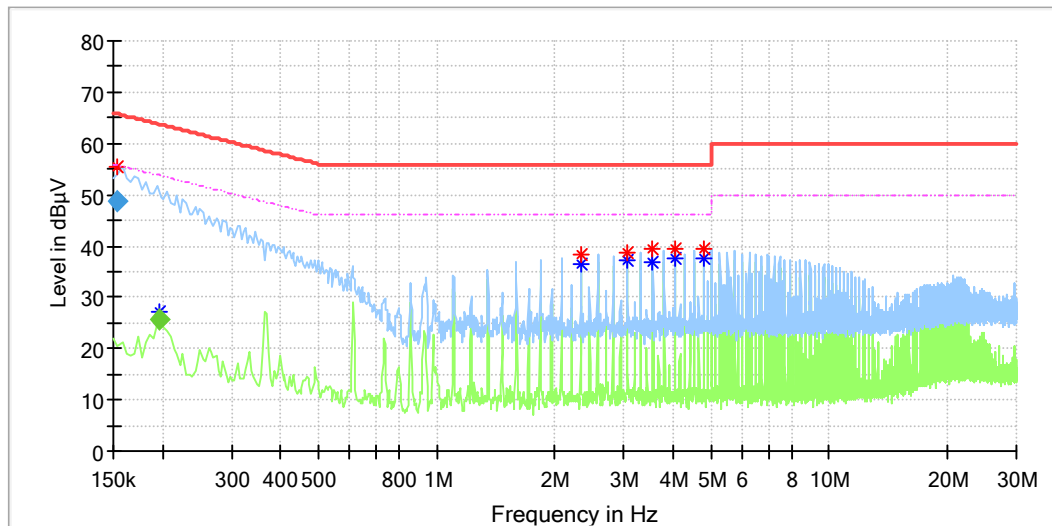
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	---	24.64	55.78	31.14	N	9.8
0.154000	52.33	---	65.78	13.46	N	9.8
0.354000	---	35.48	48.87	13.38	N	9.8
0.358000	41.22	---	58.78	17.55	N	9.8
1.066000	38.26	---	56.00	17.74	N	9.8
1.066000	---	36.68	46.00	9.32	N	9.8
1.302000	37.80	---	56.00	18.20	N	9.8
1.302000	---	36.34	46.00	9.66	N	9.8
2.014000	37.28	---	56.00	18.72	N	9.9
2.014000	---	35.15	46.00	10.85	N	9.9
2.722000	37.76	---	56.00	18.24	N	9.9
2.722000	---	35.83	46.00	10.17	N	9.9

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	---	23.03	56.00	32.97	1000.0	9.000	N	9.8
0.154000	45.29	---	65.78	20.49	1000.0	9.000	N	9.8

EUT Information

EUT Name:	TURBOPOWER 15W WIRELESS CHARGING STAND
Order Number:	168395336 120
Model:	MW - 03
Test Mode:	ON (15W max)
Test Voltage:	AC 120V/60Hz
Test By:/Review By:	Kevin Zhou/Gary Chen
Test Standard:	FCC Part 15B
Tem./Hum./Pressure:	24.6°C/49.6%/101kPa
Remark:	SR2



Critical Freqs

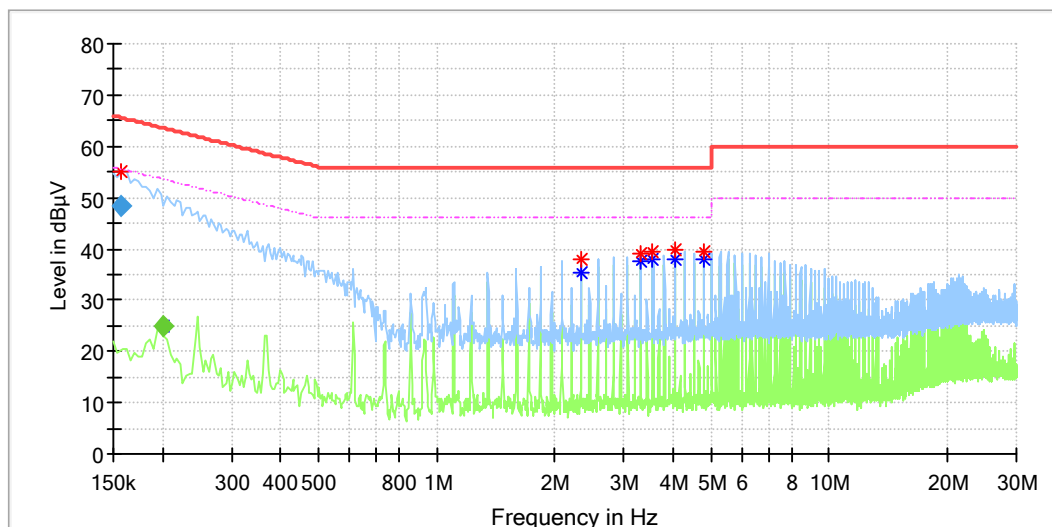
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.153500	55.56	---	65.57	10.00	L1	9.9
0.197500	---	27.12	53.69	26.58	L1	9.9
2.330000	38.27	---	56.00	17.73	L1	10.2
2.330000	---	36.50	46.00	9.50	L1	10.2
3.066000	38.77	---	56.00	17.23	L1	10.2
3.066000	---	37.09	46.00	8.91	L1	10.2
3.554000	39.32	---	56.00	16.68	L1	10.2
3.554000	---	36.78	46.00	9.22	L1	10.2
4.046000	39.53	---	56.00	16.47	L1	10.2
4.046000	---	37.54	46.00	8.46	L1	10.2
4.782000	39.29	---	56.00	16.71	L1	10.2
4.782000	---	37.42	46.00	8.58	L1	10.2

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.153500	48.82	---	65.81	16.99	1000.0	9.000	L1	9.9
0.197500	---	25.86	53.72	27.86	1000.0	9.000	L1	9.9

EUT Information

EUT Name:	TURBOPOWER 15W WIRELESS CHARGING STAND
Order Number:	168395336 120
Model:	MW - 03
Test Mode:	ON (15W max)
Test Voltage:	AC 120V/60Hz
Test By./Review By:	Kevin Zhou/Gary Chen
Test Standard:	FCC Part 15B
Tem./Hum./Pressure:	24.6°C/49.6%/101kPa
Remark:	SR2



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.157500	55.06	---	65.36	10.30	N	9.8
0.201500	---	24.81	53.69	28.89	N	9.8
2.330000	38.11	---	56.00	17.89	N	9.9
2.330000	---	35.41	46.00	10.59	N	9.9
3.314000	39.01	---	56.00	16.99	N	9.9
3.314000	---	37.52	46.00	8.48	N	9.9
3.558000	39.53	---	56.00	16.47	N	9.9
3.558000	---	37.91	46.00	8.09	N	9.9
4.050000	39.96	---	56.00	16.04	N	9.9
4.050000	---	38.13	46.00	7.87	N	9.9
4.786000	39.47	---	56.00	16.53	N	9.9
4.786000	---	37.95	46.00	8.05	N	9.9

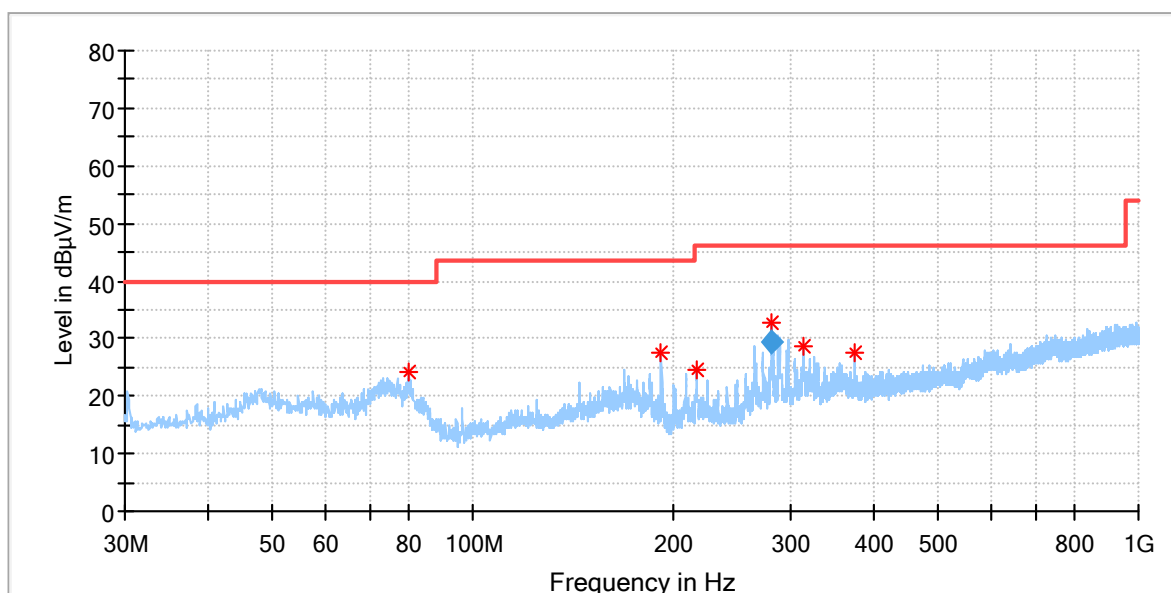
Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.157500	48.38	---	65.60	17.21	1000.0	9.000	N	9.8
0.201500	---	24.87	53.55	28.68	1000.0	9.000	N	9.8

Appendix A.3: Radiated Emissions

EUT Information

EUT Name:	TURBOPOWER 15W WIRELESS CHARGING STAND
Order No:	168395336 120
Model:	MW - 03
Test Mode:	ON (5W max)
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15
Test By:/Review By:	Kevin Zhou/Gary Chen
Tem./Hum./Pressure:	24.3°C/51.6%/101kPa
Remark:	3m chamber



Critical Freqs

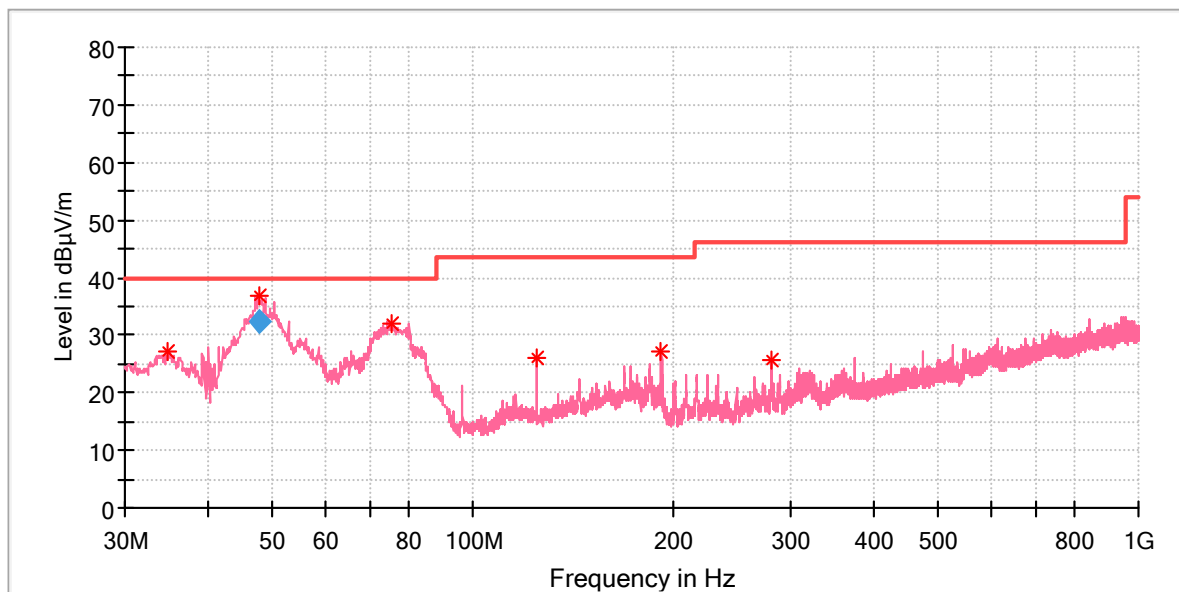
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
80.343000	24.13	40.00	15.87	200.0	H	225.0	15.7
191.990000	27.44	43.50	16.06	200.0	H	67.0	17.3
217.113000	24.62	46.00	21.38	100.0	H	286.0	18.5
281.070000	32.89	46.00	13.11	100.0	H	171.0	20.0
313.240000	28.75	46.00	17.25	100.0	H	230.0	21.8
375.029000	27.58	46.00	18.42	200.0	H	199.0	22.8

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
281.070000	29.33	46.00	16.67	1000.0	120.000	100.0	H	171.0	20.0

EUT Information

EUT Name: TURBOPOWER 15W WIRELESS CHARGING STAND
Order No: 168395336 120
Model: MW - 03
Test Mode: ON (5W max)
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15
Test By./Review By: Kevin Zhou/Gary Chen
Tem./Hum./Pressure: 24.3°C/51.6%/101kPa
Remark: 3m chamber



Critical_Freqs

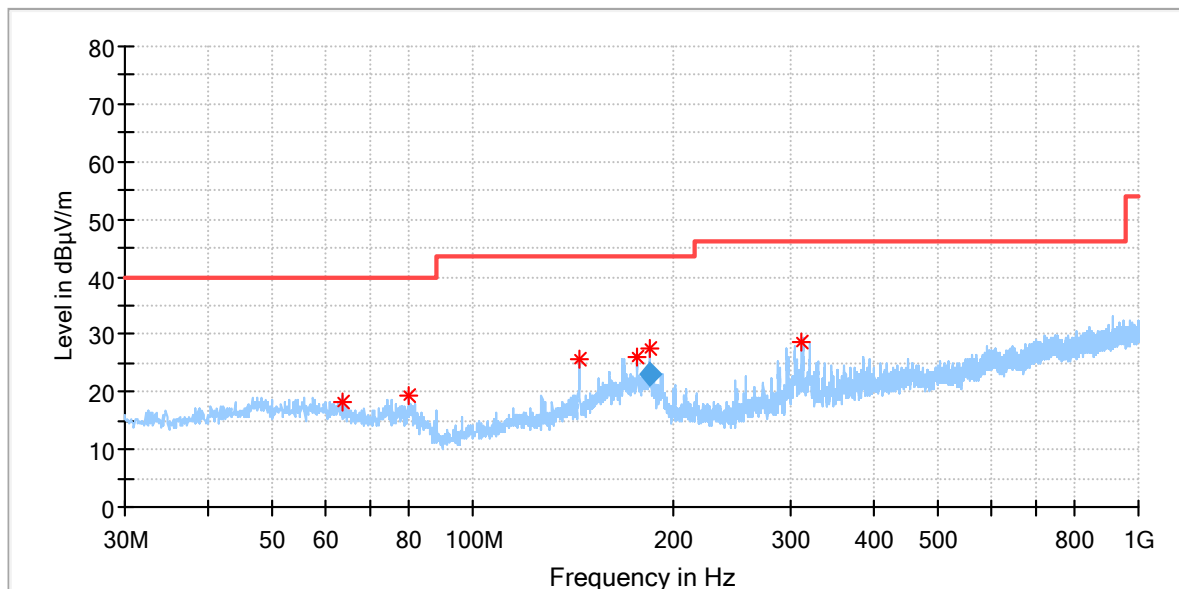
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
34.850000	27.03	40.00	12.97	100.0	V	204.0	18.5
47.597000	36.77	40.00	3.23	100.0	V	192.0	21.3
75.590000	31.95	40.00	8.05	100.0	V	96.0	16.7
124.963000	26.17	43.50	17.33	100.0	V	57.0	19.1
191.990000	27.07	43.50	16.43	100.0	V	161.0	17.3
281.036000	25.70	46.00	20.30	200.0	V	10.0	20.0

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47.597000	32.31	40.00	7.69	1000.0	120.000	100.0	V	192.0	21.3

EUT Information

EUT Name:	TURBOPOWER 15W WIRELESS CHARGING STAND
Order No:	168395336 120
Model:	MW - 03
Test Mode:	ON (15W max)
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15B
Test By:/Review By:	Kevin Zhou/Gary Chen
Tem./Hum./Pressure:	24.3°C/51.6%/101kPa
Remark:	3m chamber



Critical_Freqs

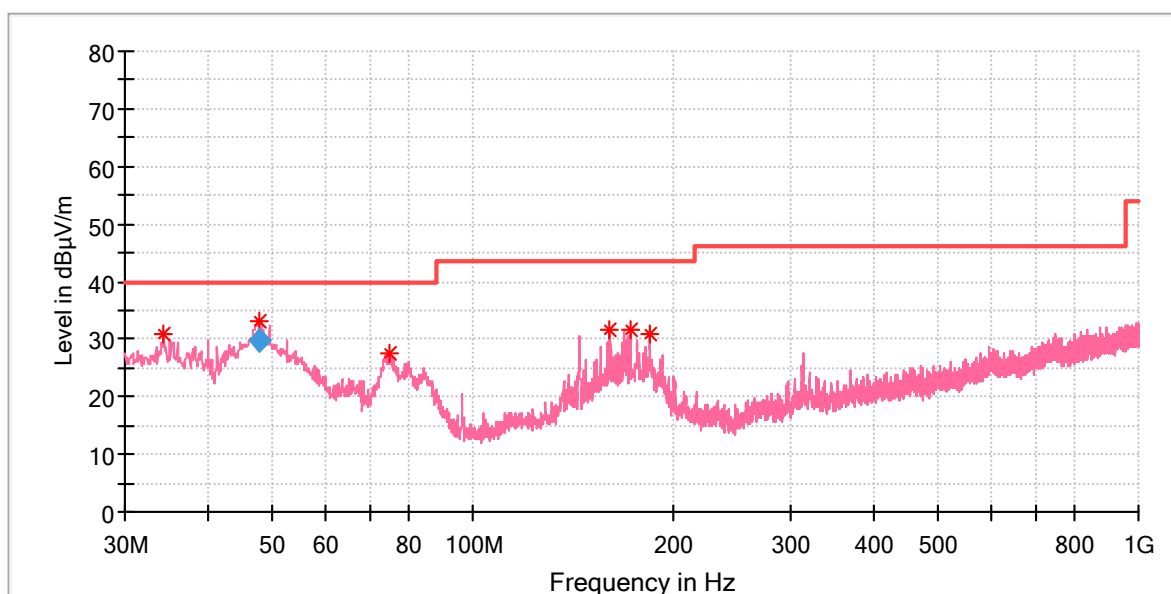
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
63.756000	18.36	40.00	21.64	100.0	H	203.0	20.3
80.246000	19.29	40.00	20.71	200.0	H	166.0	15.7
144.460000	25.59	43.50	17.91	200.0	H	299.0	20.2
176.470000	26.21	43.50	17.29	100.0	H	128.0	20.2
184.481000	27.63	43.50	15.87	100.0	H	324.0	18.4
312.561000	28.53	46.00	17.47	100.0	H	66.0	21.7

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
184.481000	22.91	43.50	20.59	1000.0	120.000	100.0	H	324.0	18.4

EUT Information

EUT Name: TURBOPOWER 15W WIRELESS CHARGING STAND
Order No: 168395336 120
Model: MW - 03
Test Mode: ON (15W max)
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15B
Test By:/Review By: Kevin Zhou/Gary Chen
Tem./Hum./Pressure: 24.3°C/51.6%/101kPa
Remark: 3m chamber



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
34.268000	30.81	40.00	9.19	200.0	V	0.0	18.3
47.923000	33.20	40.00	6.80	100.0	V	207.0	21.2
75.105000	27.44	40.00	12.56	100.0	V	270.0	16.8
160.562000	31.54	43.50	11.96	200.0	V	0.0	21.6
172.105000	31.57	43.50	11.93	200.0	V	36.0	21.2
184.521000	30.89	43.50	12.61	100.0	V	86.0	18.4

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47.923000	29.89	40.00	10.11	1000.0	120.000	100.0	V	207.0	21.4