

Prüfbericht-Nr.: Test report no.:	CN22METU 001	Auftrags-Nr.: Order no.:	168378467	Seite 1 von 27 Page 1 of 27
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2022-06-21	
Auftraggeber: Client:	Gopod Group Limited. 6/F., 235 Wing Lok Trade Centre, Sheung Wan, Hong Kong, China			
Prüfgegenstand: Test item:	4-in-1 Wireless Charger with MagSafe			
Bezeichnung / Typ-Nr.: Identification / Type no.:	NS-MM541S23, NS-MM541xxxxxxxx, BE-MM541xxxxxxxx ("x"=0-9, A-Z, a-z, - or blank, for market purpose only)			
Auftrags-Inhalt: Order content:	Type test			
Prüfgrundlage: Test specification:	CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 15: Subpart C Section 15.215			
Wareneingangsdatum: Date of sample receipt:	2022-06-23	Refer to photos document		
Prüfmuster-Nr.: Test sample no.:	A003283661-002 A003289402-003			
Prüfzeitraum: Testing period:	2022-07-02 – 2022-07-06			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	X Alex L	genehmigt von: authorized by:	X Winnie Hou	
Datum: Date:	2022-08-31	Signed by: Alex Lan	Issue date: 2022-09-02	Signed by: Winnie Hou
Stellung / Position	Assistant Project Manager	Stellung / Position	Department Manager	
Sonstiges / Other:	FCC ID: 2AQZH-MM541S23			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged:		
<p>* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(pass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet</p> <p>Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(pass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested</p>				
<p>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.</p> <p><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></p>				

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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

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2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No. 362 Huangguan Road Middle, Longhua District, Shenzhen 518110, China

FCC Registration No.: CN1260

IC Registration No.: 25069 and the CAB identifier is CN0078.

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
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2022-09-28
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2022-09-28
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2022-09-28
Test Software	Tonscend	JS1120-3	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A
Unwanted Emission Testing				
Description	Manufacturer	Model	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR 7	102021	2022-08-10
Signal Analyzer	R&S	FSV 40	101439	2022-08-09
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	2022-08-09
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2022-08-09
Amplifier	R&S	SCU-18F	180070	2022-08-09
Amplifier	R&S	SCU40A	100475	2022-08-09
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2022-08-08
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2022-08-08
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2022-08-08
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2022-09-13
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

Description	Manufacturer	Model	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

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
Radiated Emission, valid up to 26.5 GHz	±6 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	±3.70 dB / ±3.30 dB

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) 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 No. 362 Huangguan Road Middle, Longhua District, Shenzhen 518110, 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 EUTs are a **4-in-1 Wireless Charger with MagSafe** which supports wireless charging function.

All models are identical except the model number or color for different market purpose.

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	4-in-1 MagSafe Wireless Charger Stand
Type Designation	NS-MM541S23, NS-MM541xxxxxxxx, BE-MM541xxxxxxxx ("x"=0-9, A-Z, a-z, - or blank, for market purpose only)
FCC ID	2AQZH-MM541S23
Operating Voltage	AC 100-240V, 50/60Hz via AC/DC Adapter
Testing Voltage	AC 120V, 60Hz
AC/DC Adapter	Model: DCT50W150333US-Y0 Input: AC 100-240V, 50/60Hz, 1.2A Output: DC 15V, 3.33A
Technical Specification of WPT	
Operating Frequency	111-205KHz for Qi 360KHz for apple magsafe
Modulation	FSK
Antenna Type	Induction Coil Antenna
Antenna Gain	0 dBi
Antenna number	3
Wireless Charger output power	10W & 5W for Qi 15W for apple magsafe
Technical Specification of Apple watch	
Operating Frequency	326.5KHz
Modulation	FSK
Antenna Type	Induction Coil Antenna
Antenna Gain	0 dBi
Antenna number	1
Wireless Charger output power	5W

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Wireless charging (WPT)
 - 1. 15W
 - 2. 10W
 - 3. 5W
- B. On, Apple watch (5W)
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- FCC/IC Label and Location Info
- Application Form
- Instruction Manual
- Operation Description

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 test were applied on model **NS-MM541S23**.

4.3 Special Accessories and Auxiliary Equipment

Table 3: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Remark
Dummy Load	YBZ	N/A	N/A	Supply by Lab
Mobile Phone	Apple	N/A	N/A	Supply by Lab
Earphone	Apple	N/A	N/A	Supply by Client
Watch	Apple	N/A	N/A	Supply by Client

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)

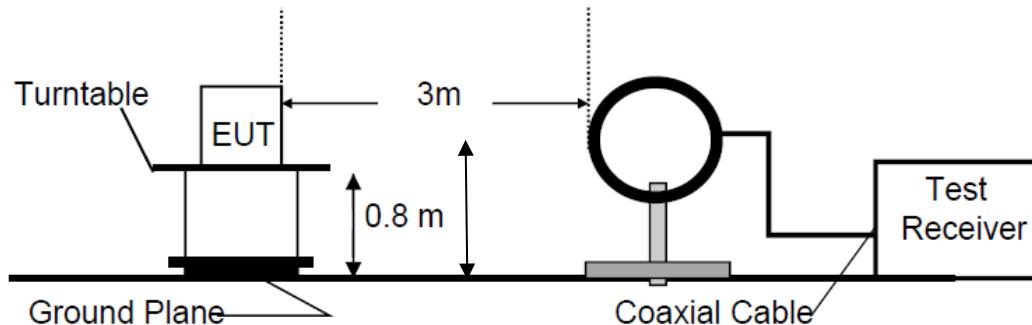


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

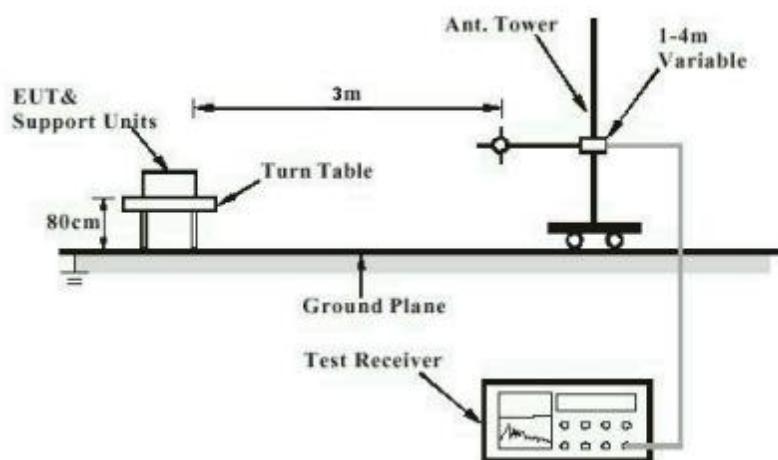
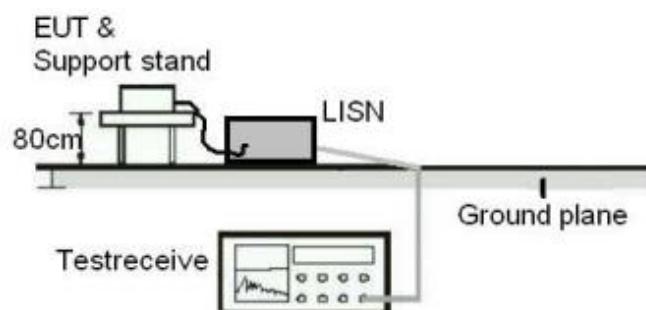


Diagram of Measurement Configuration for Mains Conduction Measurement



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5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: Pass

Test Specification

Test standard : Part 15.203

According to the manufacturer declared, the EUT has four 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

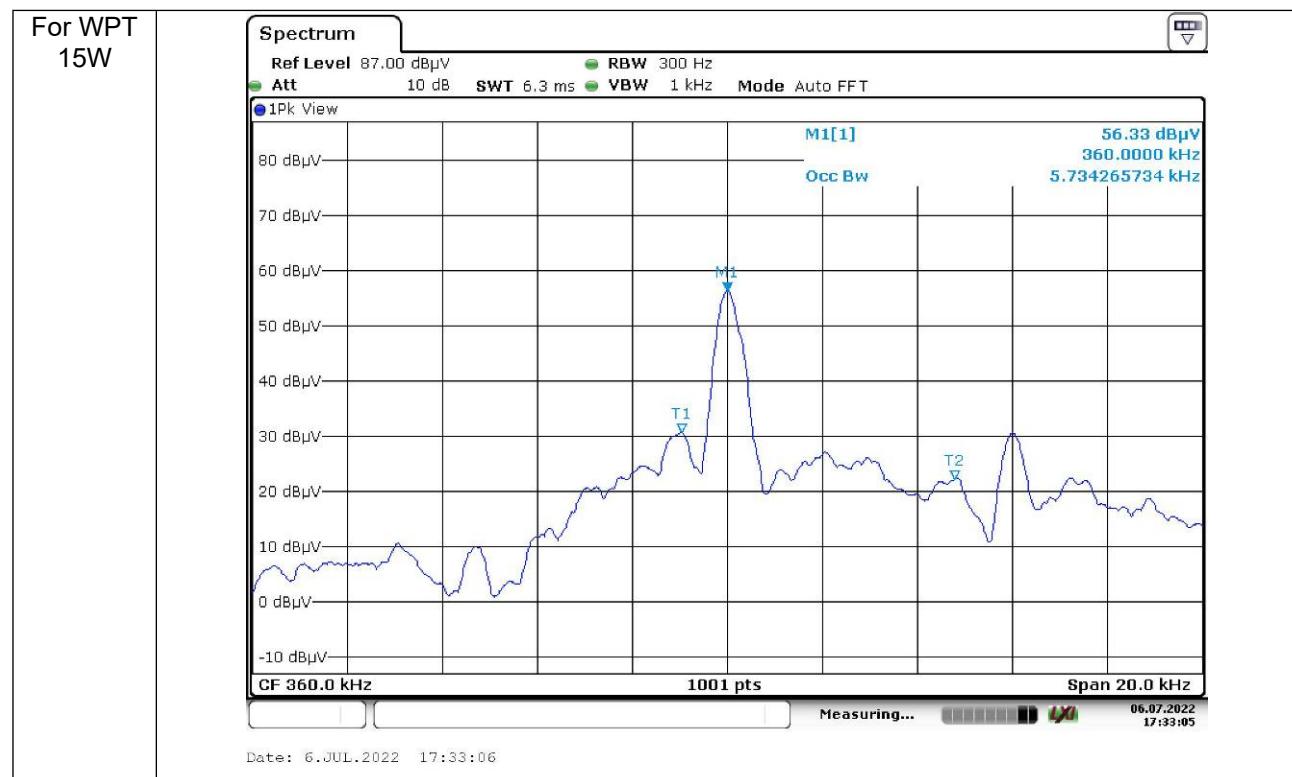
Test Specification

Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 2022-07-06
Input voltage : AC 120V, 60Hz
Operation mode : A+B
Ambient temperature : 24.1 °C
Relative humidity : 52 %
Atmospheric pressure : 101 kPa

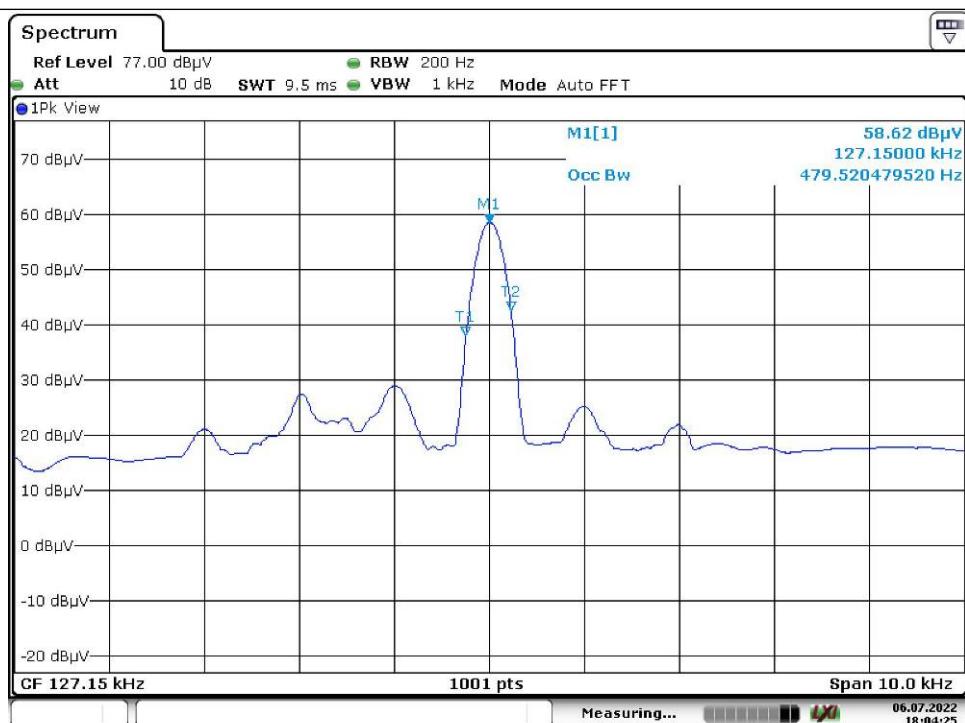
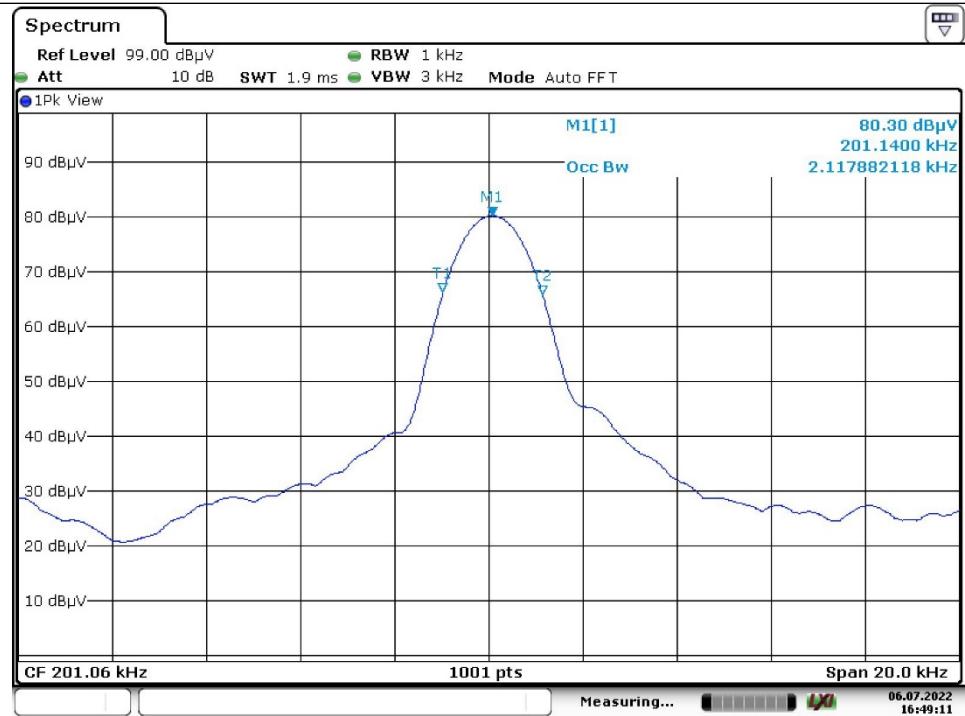
For the measurement records, refer to the following test plots.



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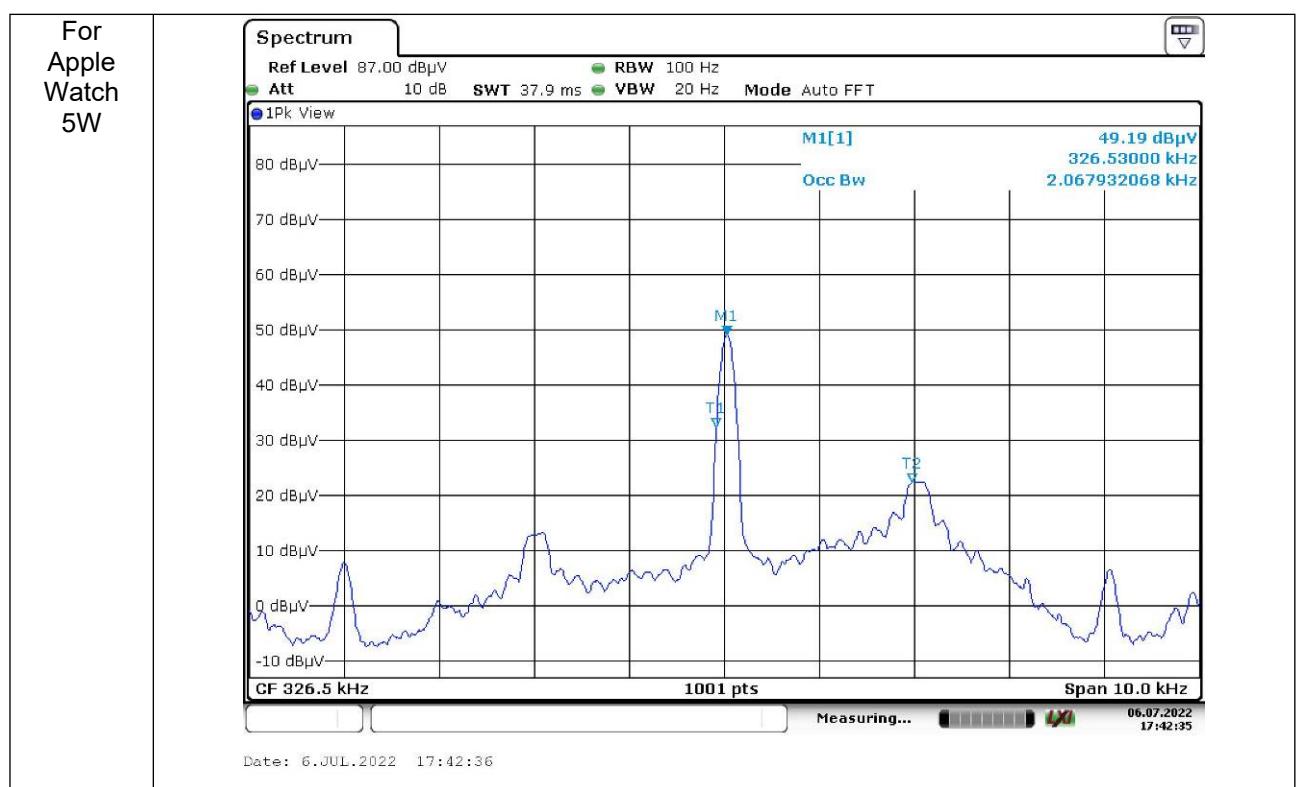
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 For WPT
10W

 For WPT
5W


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5.1.3 20dB Bandwidth

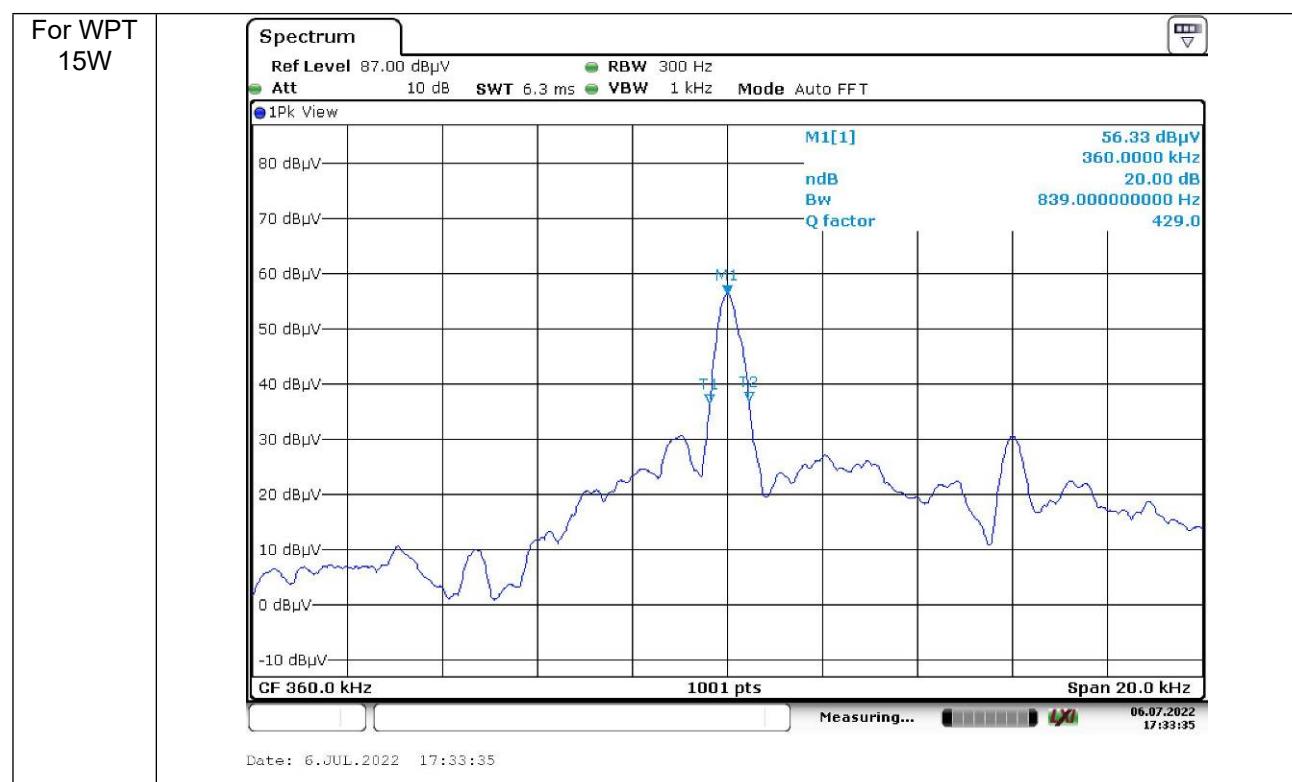
RESULT:
Pass
Test Specification

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

Test Setup

Date of testing	:	2022-07-06
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A
Ambient temperature	:	24.1 °C
Relative humidity	:	52 %
Atmospheric pressure	:	101 kPa

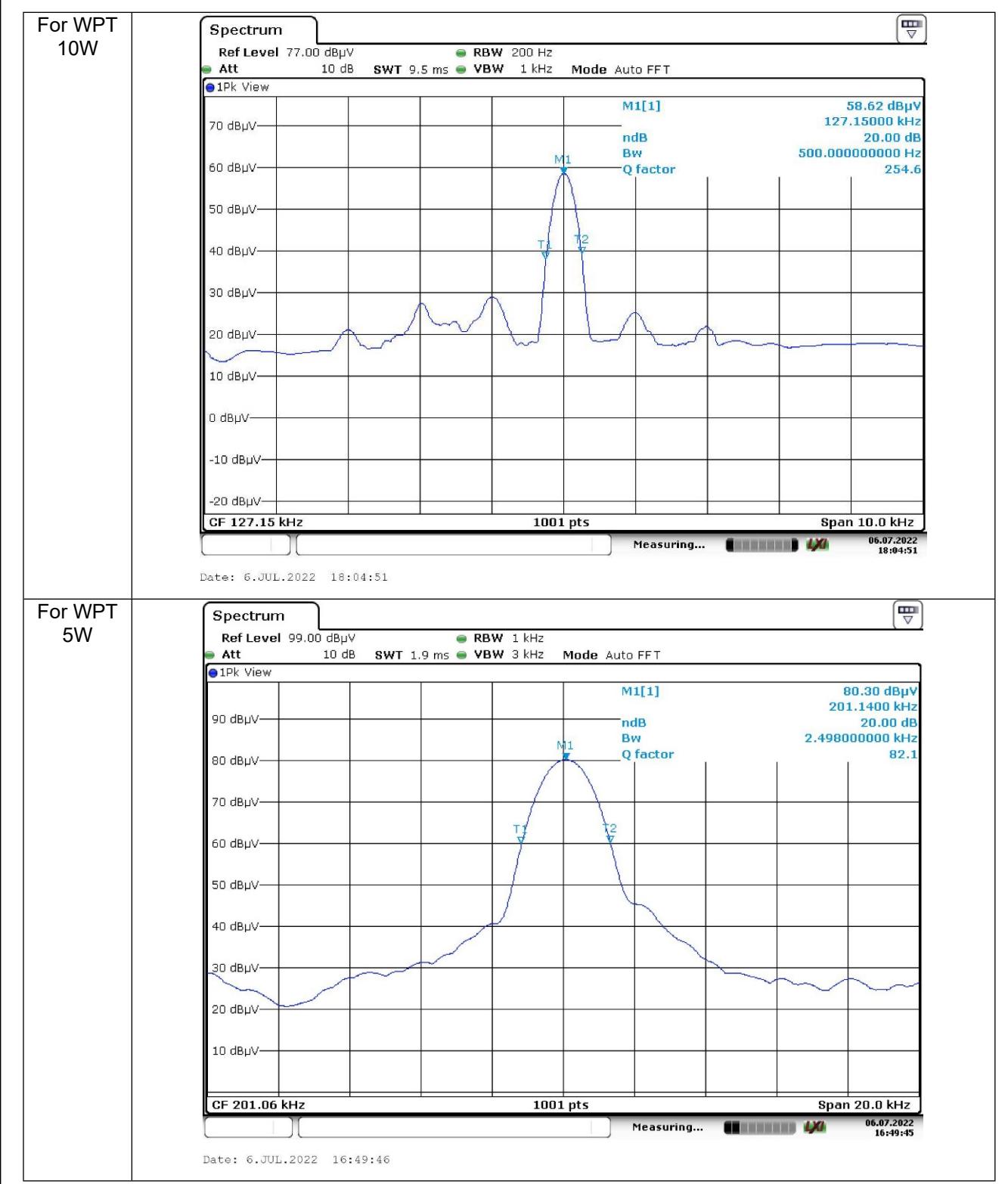
For the measurement records, refer to the following test plots.



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Test Report - Products
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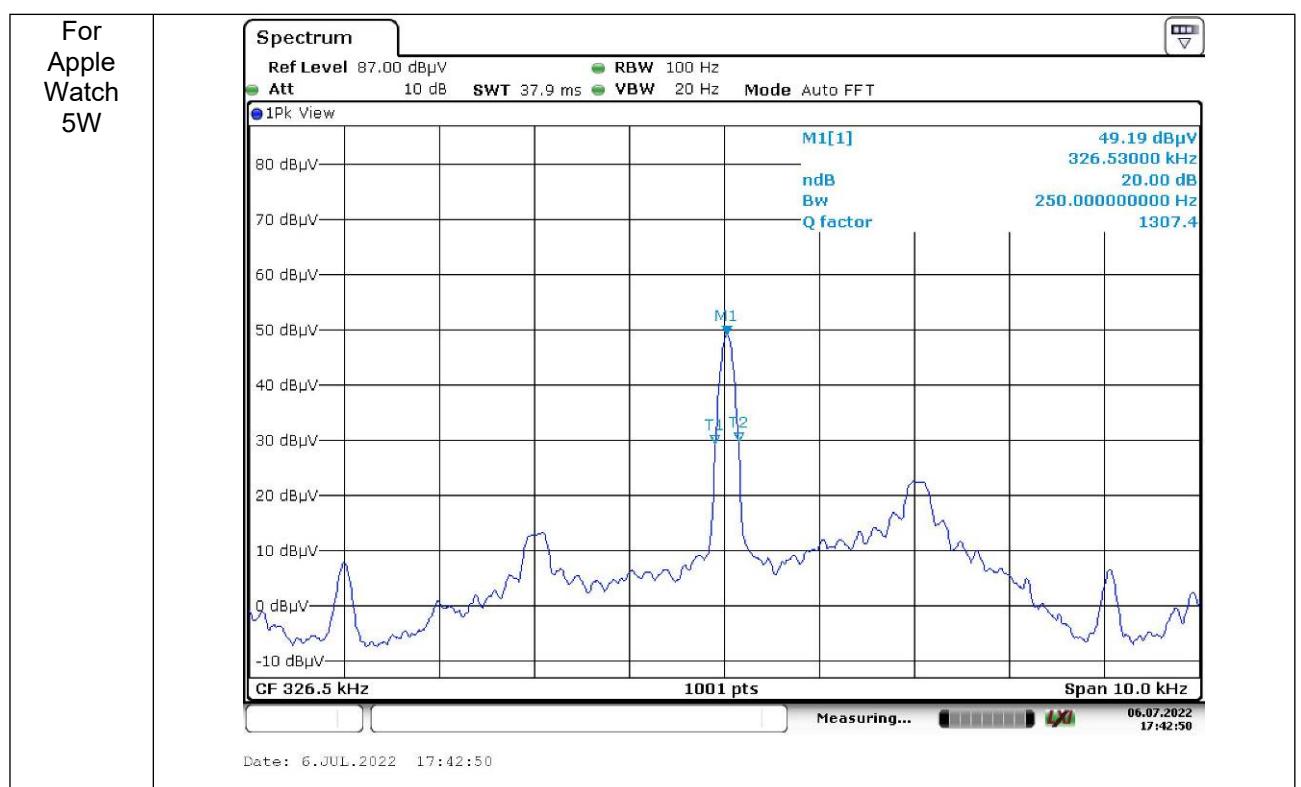
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5.1.4 Radiated Spurious Emission

RESULT:

Pass

Test Specification

Test standard	:	FCC Part 15.209 & 15.205
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	:	2022-07-05 to 2022-07-06
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A+B
Ambient temperature	:	23 °C
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

This testing was carried out on all operation modes, but only the worst case was presented in this report.

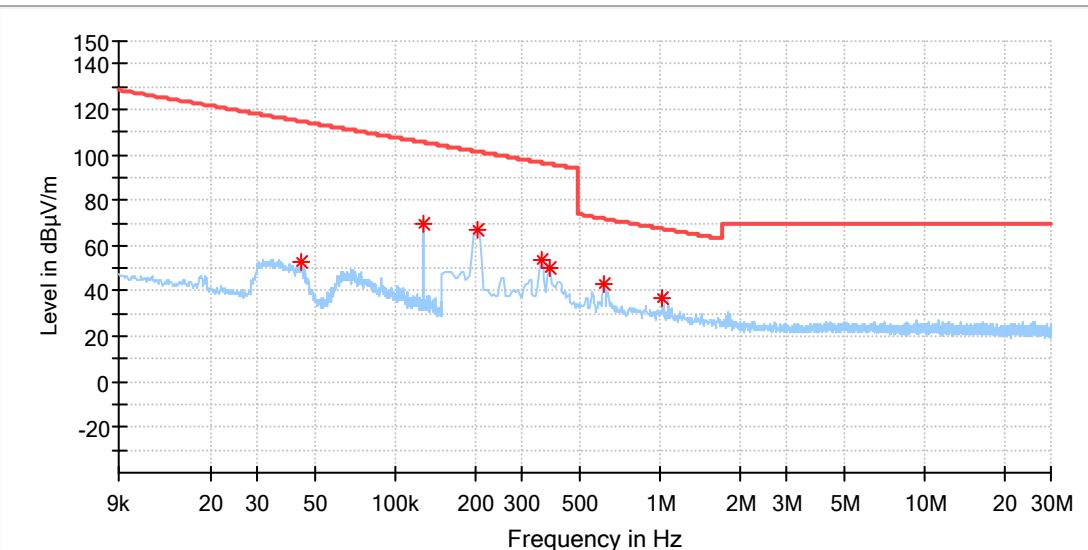
Refer to following test plots for details of test result.

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EUT Information

EUT Name: 4-in-1 Wireless Charger with MagSafe
 Model: NS-MM541S23
 Test Mode: A+B
 Order No/Sample No: 168378467/A003289402-003
 Test Voltage: 120V/60Hz
 Remark: Temp 23 Humi:56%
 Test Standard: FCC Part 15C
 Tested By: Kei Zhang
 Reviewed By: Terry Yin


Critical_Freqs

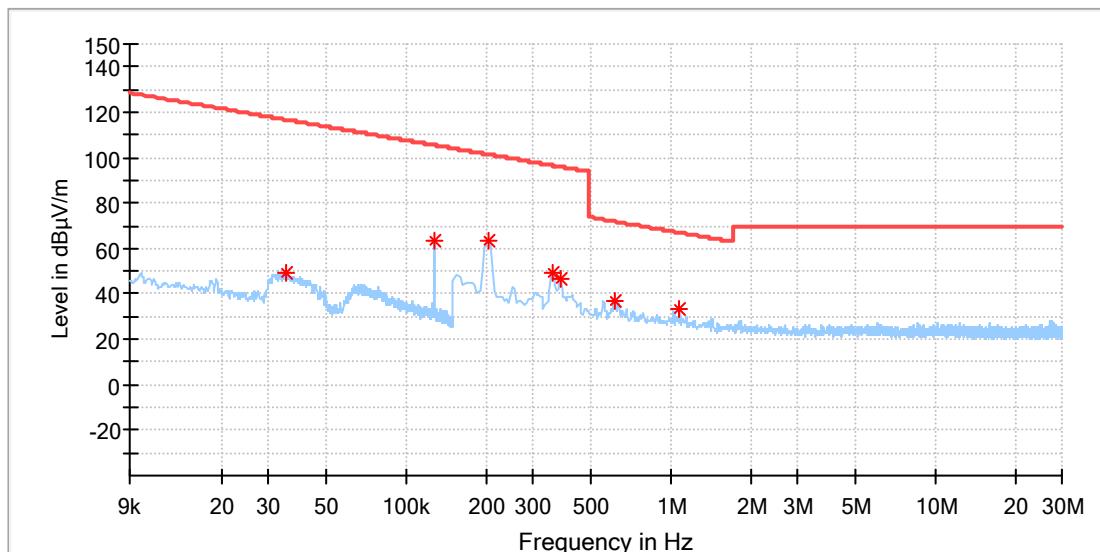
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.043948	52.91	114.73	61.82	100.0	X	259.0	20.1
0.127138	69.81	105.51	35.70	100.0	X	36.0	20.1
0.202677	67.18	101.46	34.28	100.0	X	10.0	20.1
0.356316	53.87	96.57	42.70	100.0	X	110.0	20.1
0.382655	50.33	95.95	45.62	100.0	X	41.0	20.1
0.615309	43.30	71.83	28.52	100.0	X	173.0	20.1
1.023552	36.78	67.42	30.64	100.0	X	168.0	20.1

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EUT Information

EUT Name: 4-in-1 Wireless Charger with MagSafe
 Model: NS-MM541S23
 Test Mode: A+B
 Order No/Sample No: 168378467/A003289402-003
 Test Voltage: 120V/60Hz
 Remark: Temp 23 Humi:56%
 Test Standard: FCC Part 15C
 Tested By: Kei Zhang
 Reviewed By: Terry Yin


Critical_Freqs

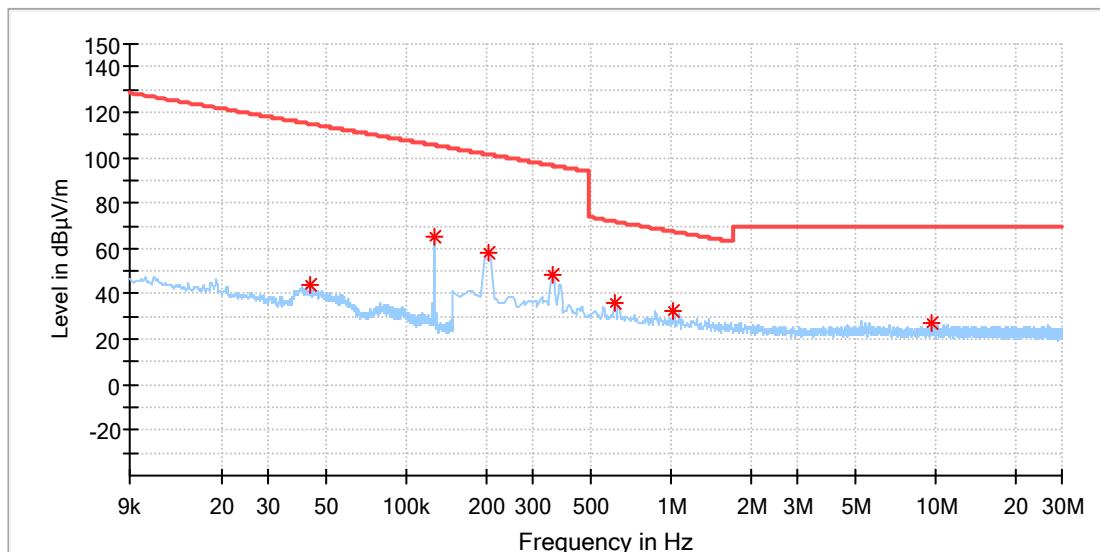
Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.035085	49.37	116.69	67.32	100.0	Y	331.0	20.1
0.127138	63.73	105.51	41.78	100.0	Y	312.0	20.1
0.202677	63.12	101.46	38.34	100.0	Y	295.0	20.1
0.356316	49.27	96.57	47.30	100.0	Y	170.0	20.1
0.382655	46.26	95.95	49.69	100.0	Y	151.0	20.1
0.615309	37.25	71.83	34.57	100.0	Y	61.0	20.1
1.076228	33.12	66.99	33.86	100.0	Y	37.0	20.1

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EUT Information

EUT Name: 4-in-1 Wireless Charger with MagSafe
 Model: NS-MM541S23
 Test Mode: A+B
 Order No/Sample No: 168378467/A003289402-003
 Test Voltage: 120V/60Hz
 Remark: Temp 23 Humi:56%
 Test Standard: FCC Part 15C
 Tested By: Kei Zhang
 Reviewed By: Terry Yin


Critical_Freqs

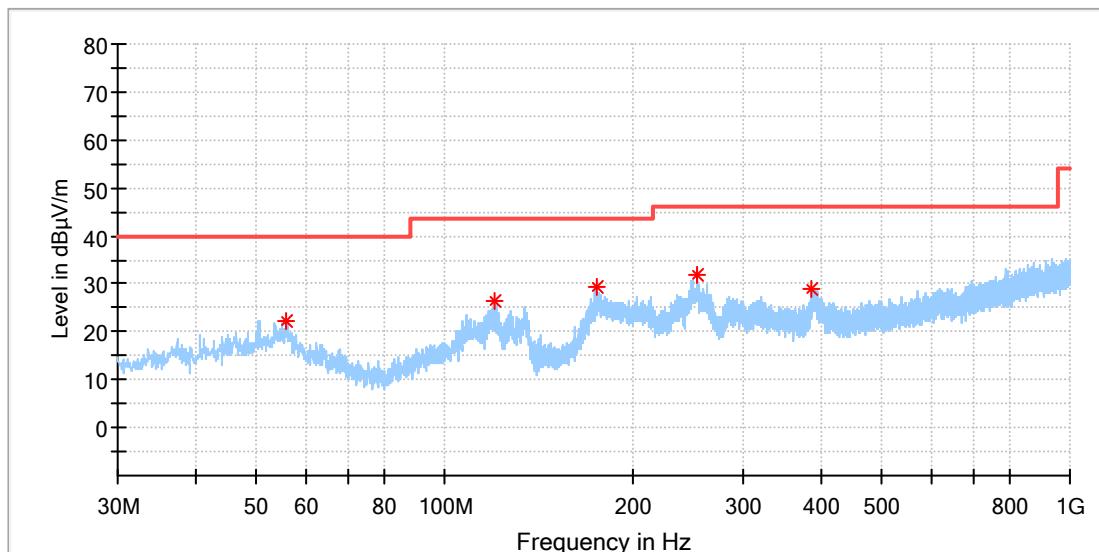
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.043545	44.13	114.81	70.68	100.0	Z	265.0	20.1
0.127138	65.55	105.51	39.97	100.0	Z	34.0	20.1
0.202677	58.00	101.46	43.46	100.0	Z	339.0	20.1
0.356316	48.23	96.57	48.34	100.0	Z	116.0	20.1
0.610919	36.31	71.89	35.58	100.0	Z	218.0	20.1
1.023552	32.87	67.42	34.55	100.0	Z	296.0	20.1
9.702000	27.50	69.50	42.00	100.0	Z	228.0	20.4

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EUT Information

EUT Name: 4-in-1 Wireless Charger with MagSafe
 Model: NS-MM541S23
 Test Mode: A+B
 Order No/Sample No: 168378467/A003289402-003
 Test Voltage: 120V/60Hz
 Remark: Temp 23 Humi:56%
 Test Standard: FCC Part 15C
 Tested By: Kei Zhang
 Reviewed By: Terry Yin


Critical_Freqs

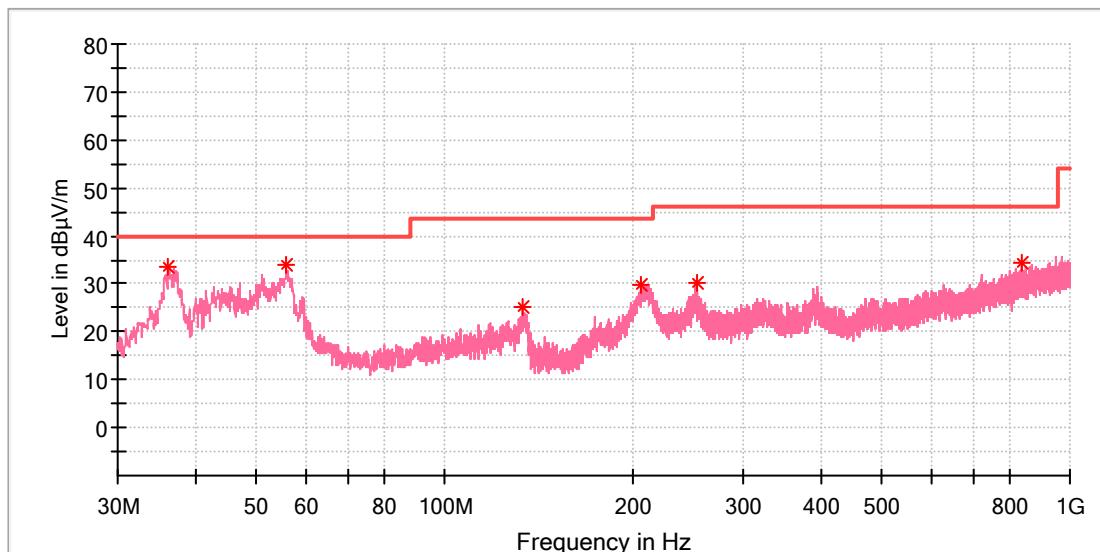
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
55.753500	22.27	40.00	17.73	100.0	H	199.0	-18.5
120.064500	26.50	43.50	17.00	100.0	H	0.0	-20.8
175.160500	29.20	43.50	14.30	100.0	H	32.0	-20.9
252.663500	31.66	46.00	14.34	100.0	H	40.0	-17.3
386.669000	28.81	46.00	17.19	100.0	H	77.0	-14.0

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EUT Information

EUT Name: 4-in-1 Wireless Charger with MagSafe
 Model: NS-MM541S23
 Test Mode: A+B
 Order No/Sample No: 168378467/A003289402-003
 Test Voltage: 120V/60Hz
 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)
36.159500	33.41	40.00	6.59	100.0	V	288.0	-21.5
55.802000	34.13	40.00	5.87	100.0	V	67.0	-18.5
133.450500	25.32	43.50	18.18	100.0	V	6.0	-22.0
205.473000	29.76	43.50	13.74	100.0	V	215.0	-18.9
252.857500	30.27	46.00	15.73	100.0	V	270.0	-17.3
836.797500	34.31	46.00	11.69	100.0	V	32.0	-5.7

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5.1.5 Conducted Emission on AC Mains

RESULT:

Pass

Test Specification

Test standard	:	FCC Part 15.207
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	:	2022-07-02
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A+B
Earthing	:	Not connected
Ambient temperature	:	24.5 °C
Relative humidity	:	52.6 %
Atmospheric pressure	:	101 kPa

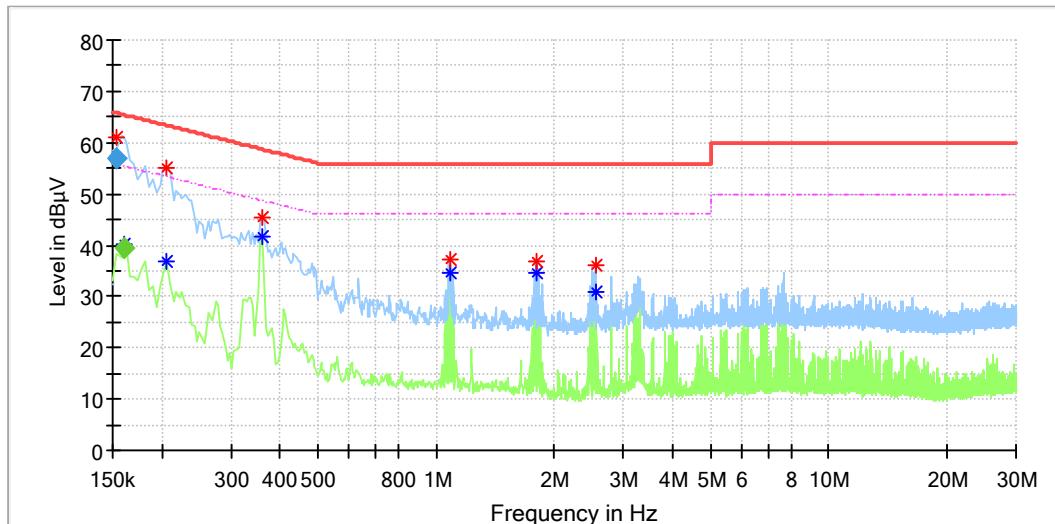
This testing was carried out on all operation modes, but only the worst case was presented in this report.
Refer to following test plots for details of test result.

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EUT Information

EUT Name: 4-in-1 Wireless Charger with MagSafe
 Order No: 168378467_P00731114
 Model: NS-MM541S23
 Test mode: A+B
 Test Voltage: AC 120V/60Hz
 Test By/Review By: Charlie Zha/Gary Chen
 Test Standard: FCC part 15
 Tem./Hum./Pressure: 24.5°C/52.6%//101kPa
 Remark: SR2


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.153000	60.90	---	65.57	4.67	L1	9.9
0.161000	---	40.34	55.36	15.02	L1	9.9
0.206000	---	36.96	53.37	16.40	L1	9.9
0.206000	55.24	---	63.37	8.12	L1	9.9
0.362000	---	41.57	48.68	7.11	L1	9.9
0.362000	45.28	---	58.68	13.40	L1	9.9
1.082000	---	34.64	46.00	11.36	L1	10.0
1.082000	37.10	---	56.00	18.90	L1	10.0
1.802000	---	34.75	46.00	11.25	L1	10.1
1.802000	36.90	---	56.00	19.10	L1	10.1
2.542000	---	30.87	46.00	15.13	L1	10.2
2.542000	36.01	---	56.00	19.99	L1	10.2

Final Result

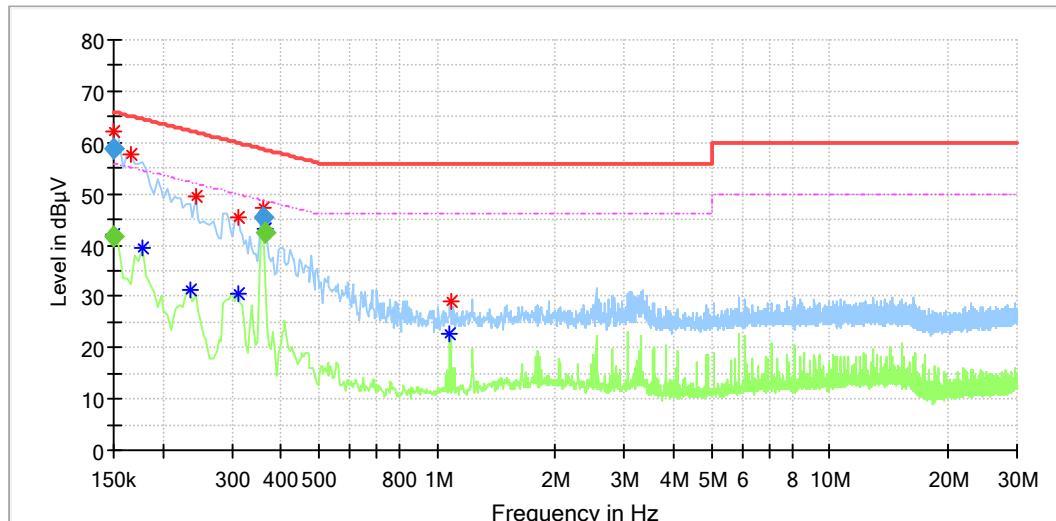
Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.153000	56.82	---	65.84	9.02	1000.0	9.000	L1	9.9
0.161000	---	39.30	55.41	16.11	1000.0	9.000	L1	9.9

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EUT Information

EUT Name: 4-in-1 Wireless Charger with MagSafe
 Order No: 168378467_P00731114
 Model: NS-MM541S23
 Test mode: A+B
 Test Voltage: AC 120V/60Hz
 Test By:/Review By: Charlie Zha/Gary Chen
 Test Standard: FCC part 15
 Tem./Hum./Pressure: 24.5°C/52.6%//101kPa
 Remark: SR2


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	62.21	---	66.00	3.79	N	9.8
0.150000	---	42.15	56.00	13.85	N	9.8
0.166000	57.60	---	65.16	7.56	N	9.8
0.178000	---	39.29	54.58	15.29	N	9.8
0.234000	---	31.29	52.31	21.02	N	9.8
0.242000	49.62	---	62.03	12.40	N	9.8
0.310000	---	30.45	49.97	19.52	N	9.8
0.310000	45.48	---	59.97	14.49	N	9.8
0.362000	47.15	---	58.68	11.53	N	9.8
0.366000	---	43.23	48.68	5.45	N	9.8
1.078000	---	22.70	46.00	23.30	N	9.8
1.082000	28.93	---	56.00	27.07	N	9.8

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	58.79	---	66.00	7.21	1000.0	0.200	N	9.8
0.150000	---	41.68	56.00	14.32	1000.0	0.200	N	9.8
0.362000	45.32	---	58.68	13.36	1000.0	9.000	N	9.8
0.366000	---	42.57	48.59	6.02	1000.0	9.000	N	9.8

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6 Photographs of the Test Set-Up

Refer to test photo document.

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