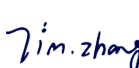


Prüfbericht-Nr.: <i>Test report no.:</i>	CN22ONAX 001	Auftrags-Nr.: <i>Order no.:</i>	168365942	Seite 1 von 30 <i>Page 1 of 30</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2022-04-06	
Auftraggeber: <i>Client:</i>	Luxshare Precision Industry Co., Ltd. Floor 2, Block A, Sanyo New Industrial Area, West Haoyi Community, Shajing Subdistrict Office, Bao'an District, Shenzhen, P. R. China			
Prüfgegenstand: <i>Test item:</i>	Wireless Charging Cable			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	NS-AWCB4C, NS-AWCB4C-C, NS-AWCxxxxx, MD-AWCxxxxx, BE-AWCxxxxx(x can be A-Z, a-z, 0-9, - or blank) (Trademark: INSIGNIA)			
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 CFR47 FCC Part 15: Subpart B Section 15.107 CFR47 FCC Part 15: Subpart B Section 15.109 CFR47 FCC Part 2: Subpart J Section 1.1310 CFR47 FCC Part 15: Subpart C Section 15.215			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2022-04-07	Refer to photos document		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003237610-001 to 003			
Prüfzeitraum: <i>Testing period:</i>	2022-04-10 – 2022-04-20			
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>	 Tim Zhang		genehmigt von: <i>authorized by:</i>	 Lin Lin
Datum: <i>Date:</i>	2022-04-21		Ausstellungsdatum: <i>Issue date:</i>	2022-04-21
Stellung / Position	Project Manager		Stellung / Position	Reviewer
Sonstiges / Other:	FCC ID: 2AYYSNSAWCB4C			
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>				

V05

Prüfbericht - Nr.: CN22ONAX 001
Test Report No.

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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 EMISSIONS

RESULT: Pass

5.1.5 RADIATED EMISSION

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:

N/A

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

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

TÜV Rheinland (Shenzhen) Co., Ltd.

Radio Spectrum Testing				
Description	Manufacturer	Model	Serial No.	Cal. Until
Signal Analyzer	Rohde & Schwarz	FSV 40	101441	2022-08-09
OSP	Rohde & Schwarz	OSP 150	101017	2022-12-02
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A
Test Software	Rohde & Schwarz	WMS32 (V10.40.10)	N/A	N/A
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	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
EMI Test Receiver	R&S	ESR 7	102021	2022-08-10
Conducted Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102428	2022-08-10
Artificial Mains Network	R&S	ENV216	102333	2022-08-10
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A
Radiated Emission				
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	2022-08-07
Preamplifier (1-18GHz)	FIT	SCU-18F	180077	2022-08-13
Active magnetic loop antenna	SCHWARZBECK	FMZB1519B	00080	2022-08-29
Trilog-Broadband antenna	SCHWARZBECK	VULB9168	0945	2022-12-12
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

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 of this report 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 device is a Wireless Charging Cable for apple watch.

According to the declaration of the applicant, the electrical circuit design, PCB layout and components used are identical for all models, only the model number and colour are different.

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	Wireless Charging Cable
Type Designation	NS-AWCB4C, NS-AWCB4C-C, NS-AWCxxxxx, MD-AWCxxxxx, BE-AWCxxxxx(x can be A-Z, a-z, 0-9, - or blank)
Trademark	INSIGNIA
FCC ID	2AYYSNSAWCB4C
Input Voltage	USB Operated, 5V, 1.2A max
Technical Specification of WPT	
Operating Frequency	326.5kHz
Modulation	FSK
Antenna Type	Coil Antenna
Antenna number	1
Wireless Charger output power	Max. 5W

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Wireless charging
- B. On, Idle
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|-------------------------|----------------------------------|
| - Application Form | - User Manual |
| - Operation Description | - Block Diagram |
| - Schematics | - FCC/IC Label and Location Info |
| - Photo Document | |

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 NS-AWCB4C in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 3: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	Rating
Adapter	Belkin	WCA004dq V2	Output: 5Vdc, 3A max
Apple Watch	Apple	Apple Watch Series 2	n/a

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)

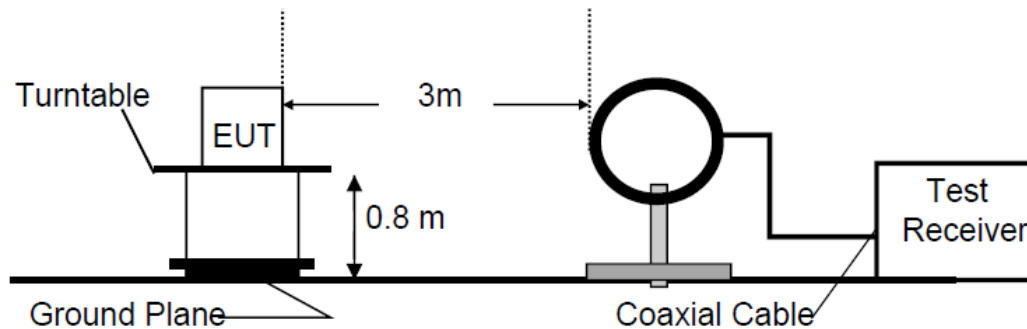


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

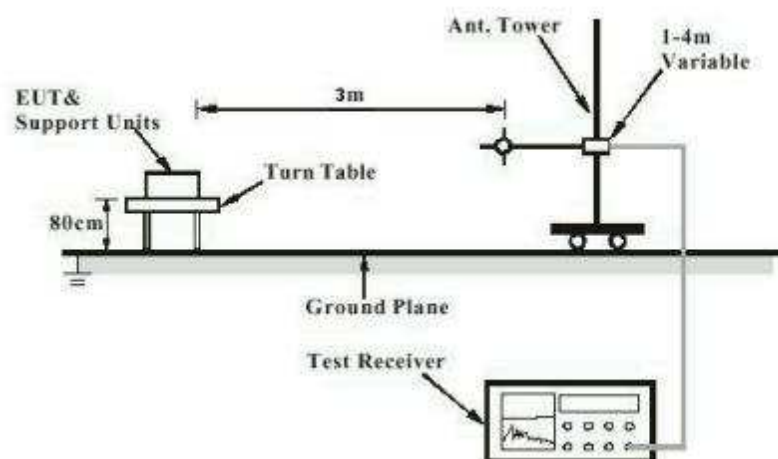
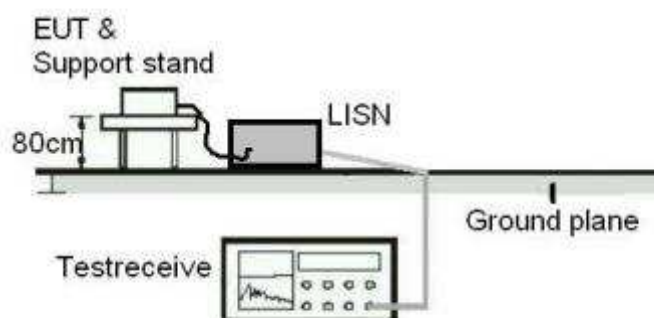


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : Part 15.203

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.

5.1.2 20dB Bandwidth

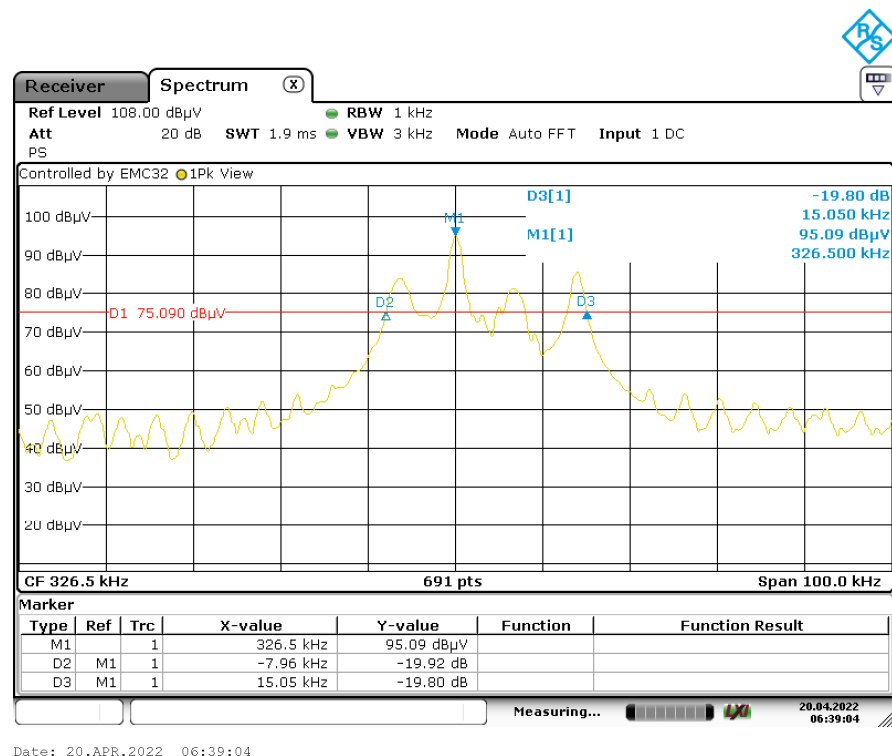
RESULT:
Pass
Test Specification

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

Test Setup

Date of testing : 20.04.2022
 Input voltage : 120Vac, 60Hz
 Operation mode : A
 Ambient temperature : 25 °C
 Relative humidity : 56 %
 Atmospheric pressure : 101 kPa

For details refer to following test result.



Date: 20.APR.2022 06:39:04

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5.1.3 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

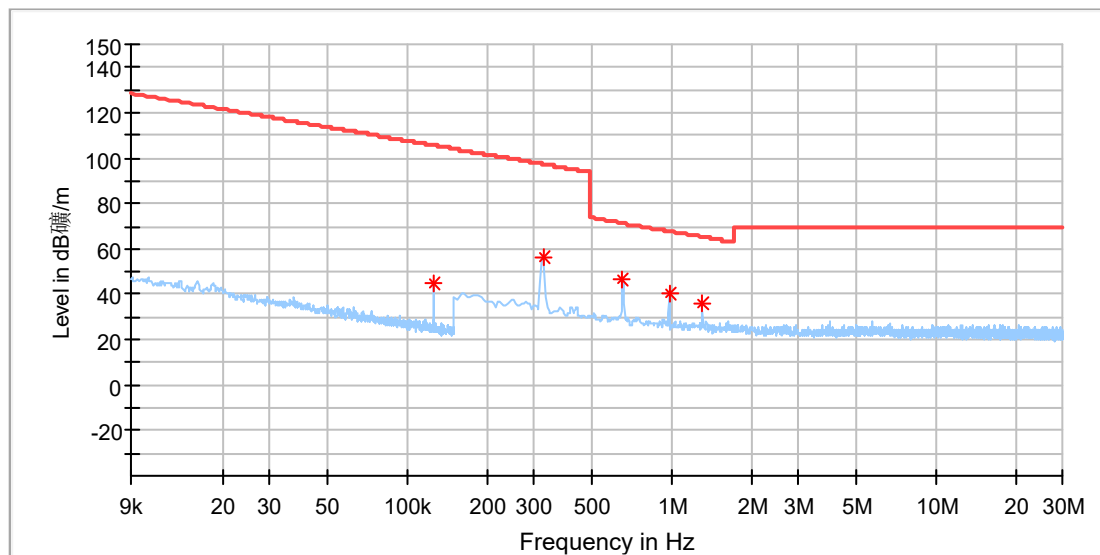
Test Setup

Date of testing	: 20.04.2022
Input voltage	: 120Vac, 60Hz
Operation mode	: A
Ambient temperature	: 23 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

Refer to following test plots for details of test result.

EUT Information

EUT Name:	Wireless Charging Cable
Model:	NS-AWCB4C
Test Mode:	Charging
Order No/Sample No:	168365942/A003237610-003
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

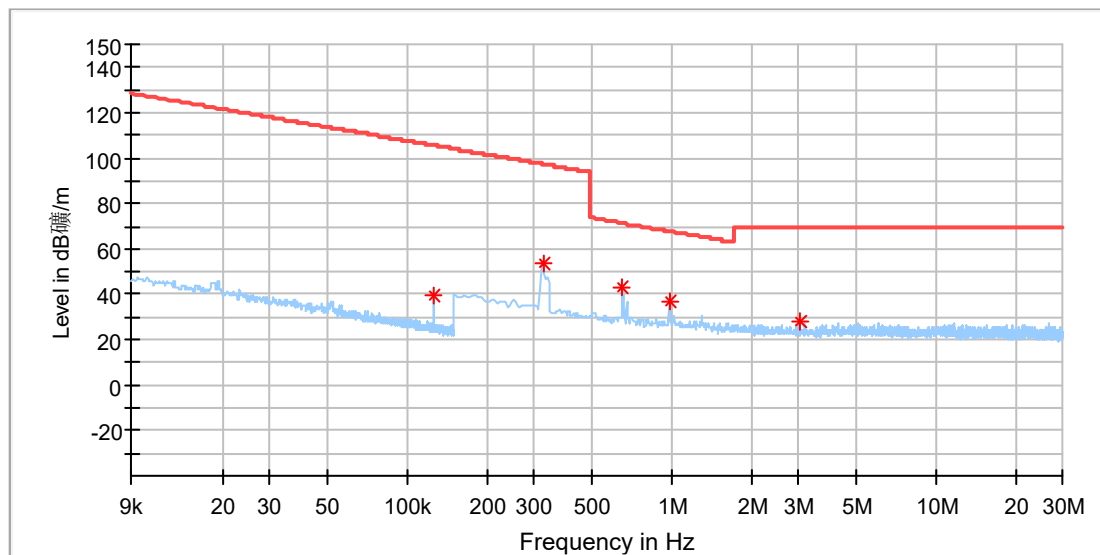


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.126131	45.19	105.58	60.39	100.0	X	277.0	20.1
0.325588	56.49	97.35	40.86	100.0	X	276.0	20.1
0.650427	46.64	71.35	24.71	100.0	X	276.0	20.1
0.979655	40.26	67.80	27.54	100.0	X	280.0	20.1
1.304493	36.31	65.32	29.01	100.0	X	354.0	20.1

EUT Information

EUT Name:	Wireless Charging Cable
Model:	NS-AWCB4C
Test Mode:	Charging
Order No/Sample No:	168365942/A003237610-003
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

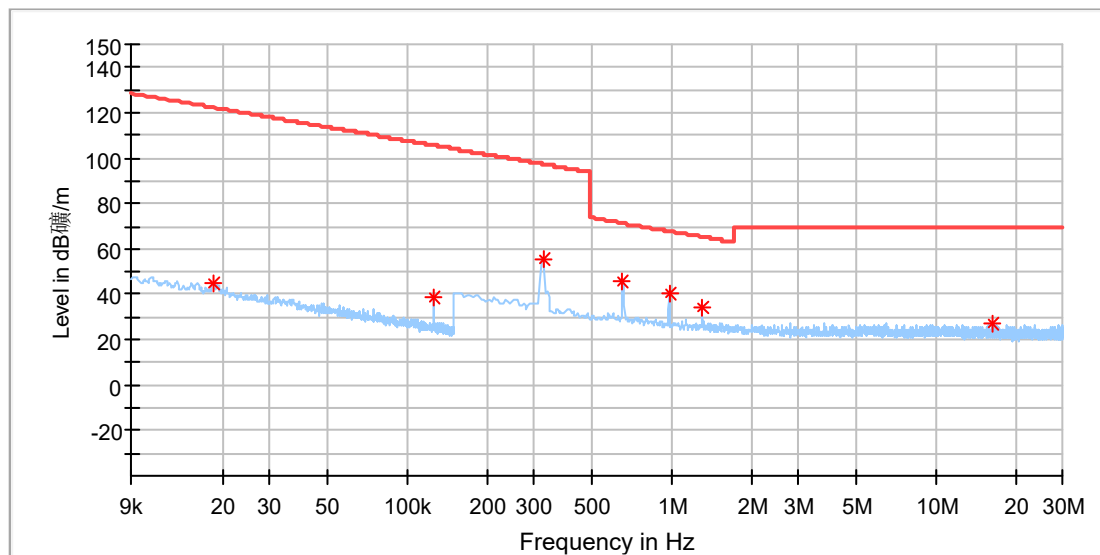


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.126131	39.77	105.58	65.81	100.0	Y	200.0	20.1
0.325588	53.81	97.35	43.54	100.0	Y	194.0	20.1
0.650427	43.39	71.35	27.96	100.0	Y	194.0	20.1
0.979655	37.29	67.80	30.51	100.0	Y	194.0	20.1
3.060375	28.20	69.50	41.30	100.0	Y	275.0	20.2

EUT Information

EUT Name:	Wireless Charging Cable
Model:	NS-AWCB4C
Test Mode:	Charging
Order No/Sample No:	168365942/A003237610-003
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

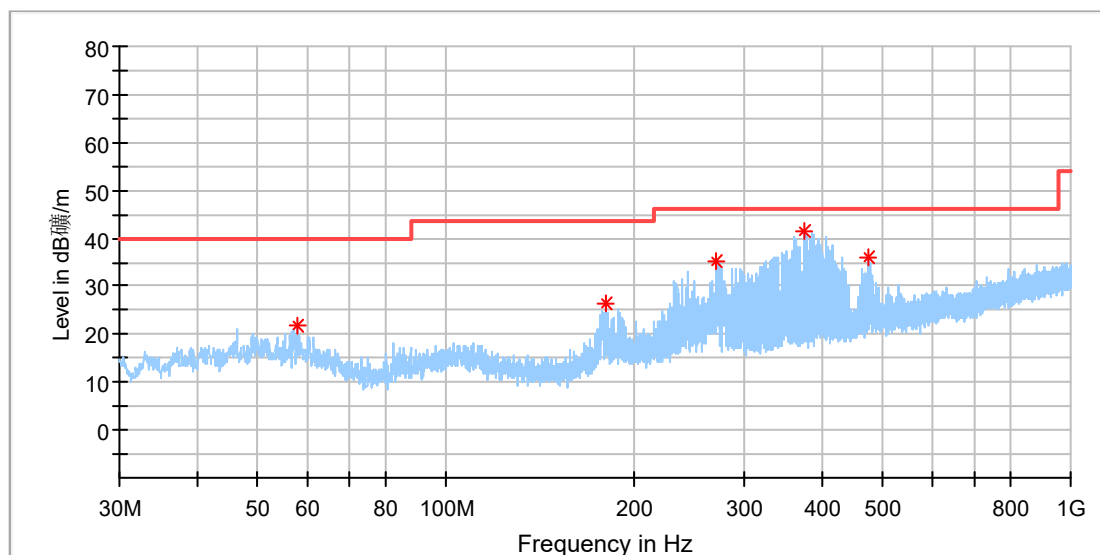


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.018366	44.67	122.31	77.64	100.0	Z	156.0	20.1
0.126030	38.68	105.59	66.91	100.0	Z	245.0	20.1
0.325588	55.68	97.35	41.67	100.0	Z	268.0	20.1
0.650427	45.61	71.35	25.74	100.0	Z	0.0	20.1
0.979655	40.30	67.80	27.50	100.0	Z	0.0	20.1
1.304493	34.38	65.32	30.94	100.0	Z	0.0	20.1
16.194375	27.35	69.50	42.15	100.0	Z	245.0	20.5

EUT Information

EUT Name:	Wireless Charging Cable
Model:	NS-AWCB4C
Test Mode:	Charging
Order No/Sample No:	168365942/A003237610-003
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:56%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

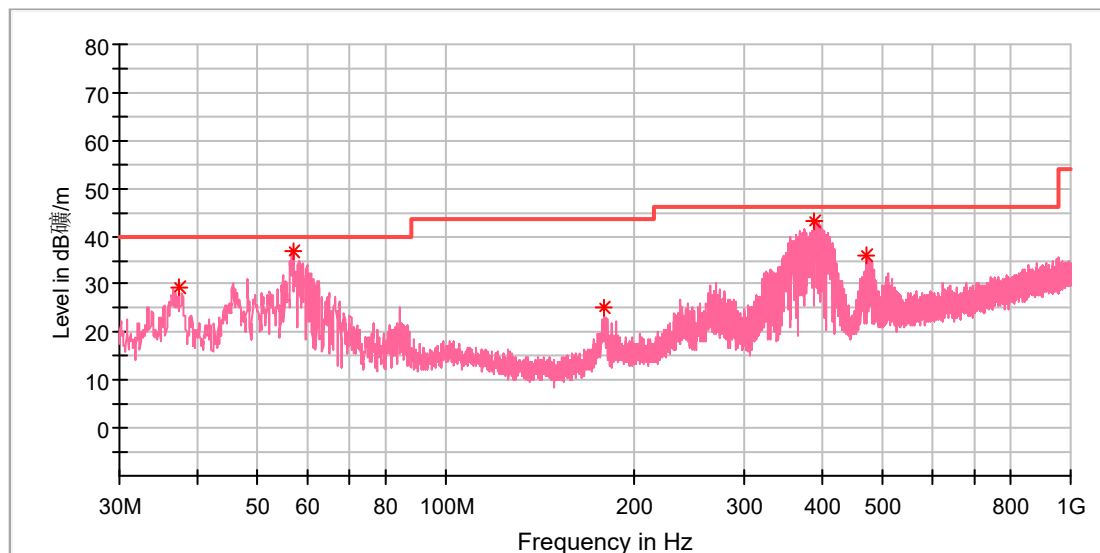


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
57.742000	21.85	40.00	18.15	100.0	H	338.0	-18.7
180.398500	26.26	43.50	17.24	100.0	H	338.0	-20.5
271.093500	35.13	46.00	10.87	100.0	H	294.0	-16.9
375.320000	41.57	46.00	4.43	100.0	H	67.0	-14.3
473.435500	36.12	46.00	9.88	100.0	H	260.0	-12.3

EUT Information

EUT Name:	Wireless Charging Cable
Model:	NS-AWCB4C
Test Mode:	Charging
Order No/Sample No:	168365942/A003237610-003
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)
37.469000	29.27	40.00	10.73	100.0	V	118.0	-21.0
57.111500	36.85	40.00	3.15	100.0	V	166.0	-18.7
179.137500	25.31	43.50	18.19	100.0	V	126.0	-20.6
388.560500	42.98	46.00	3.02	100.0	V	243.0	-14.0
471.835000	36.09	46.00	9.91	100.0	V	261.0	-12.4

5.1.4 Conducted emissions

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

Test standard	: FCC Part 15.207
Basic standard	: ANSI C63.10: 2013
Frequency range	: 150kHz - 30MHz
Classification	: Class B
Limit	FCC Part 15.207 (a)
Kind of test site	: Shielded Room

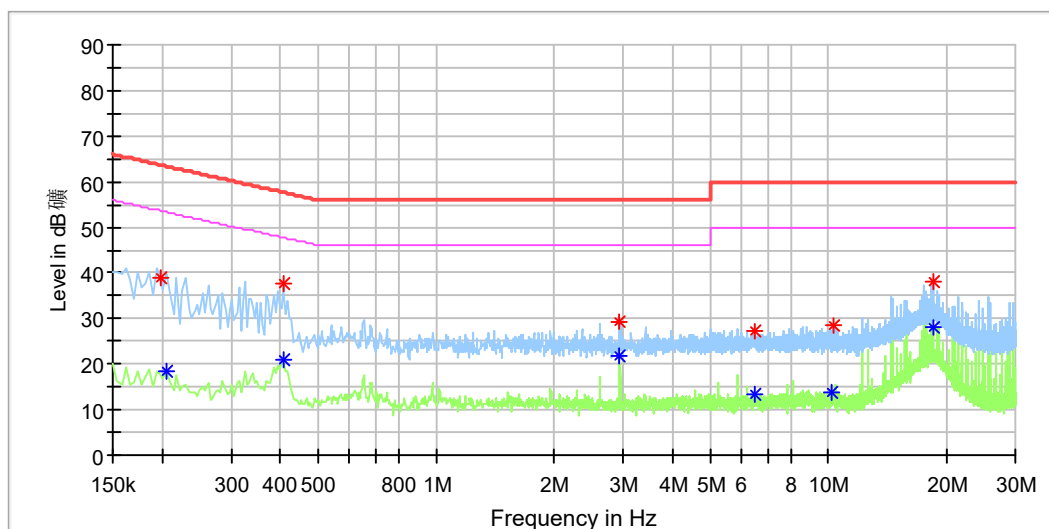
Test Setup

Date of testing	: 11.04.2022
Input voltage	: 120Vac, 60Hz
Operation mode	: A, B
Ambient temperature	: 23.8 °C
Relative humidity	: 52 %
Atmospheric pressure	: 101 kPa

Refer to following test plots for details of test result.

EUT Information

EUT Name: Wireless Charging Cable
 Order No: 168365942
 Model: NS-AWCB4C
 Test mode: ON, charging mode
 Test Voltage: AC 120V/60Hz
 Test By: Richard Lin
 Review By: Gary Chen
 Tem./Hum./Pressure: 23.8°C/52%/101kPa

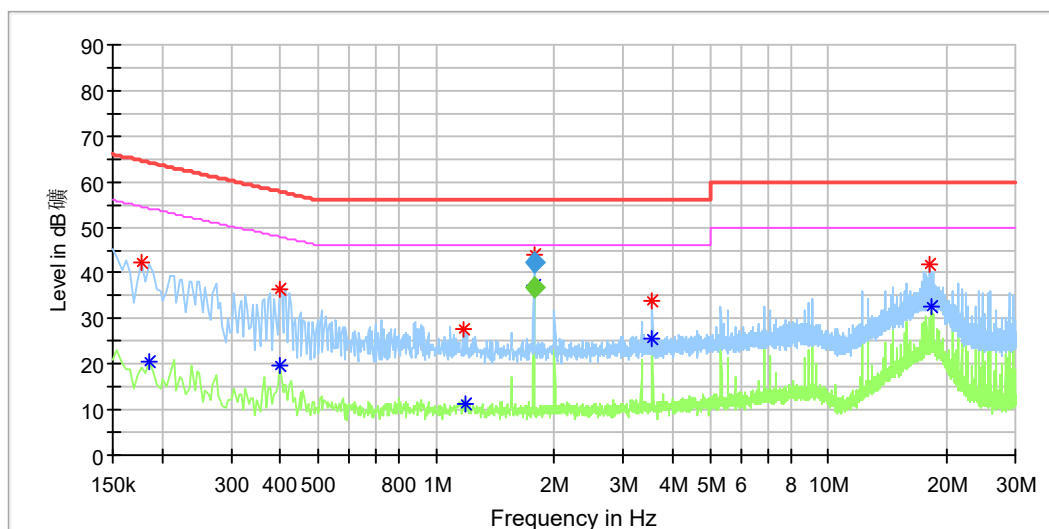


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.198000	38.99	---	63.69	24.70	L1	9.9
0.206000	---	18.28	53.37	35.09	L1	9.9
0.406000	---	20.73	47.73	27.00	L1	9.9
0.406000	37.62	---	57.73	20.11	L1	9.9
2.938000	---	21.73	46.00	24.27	L1	10.2
2.938000	29.37	---	56.00	26.63	L1	10.2
6.470000	---	13.32	50.00	36.68	L1	10.3
6.474000	27.15	---	60.00	32.85	L1	10.3
10.218000	---	13.80	50.00	36.20	L1	10.3
10.326000	28.58	---	60.00	31.42	L1	10.3
18.442000	---	28.18	50.00	21.82	L1	10.4
18.442000	38.10	---	60.00	21.90	L1	10.4

EUT Information

EUT Name: Wireless Charging Cable
Order No: 168365942
Model: NS-AWCB4C
Test mode: ON, charging mode
Test Voltage: AC 120V/60Hz
Test By: Richard Lin
Review By: Gary Chen
Tem./Hum./Pressure: 23.8°C/52%/101kPa



Critical_Freqs

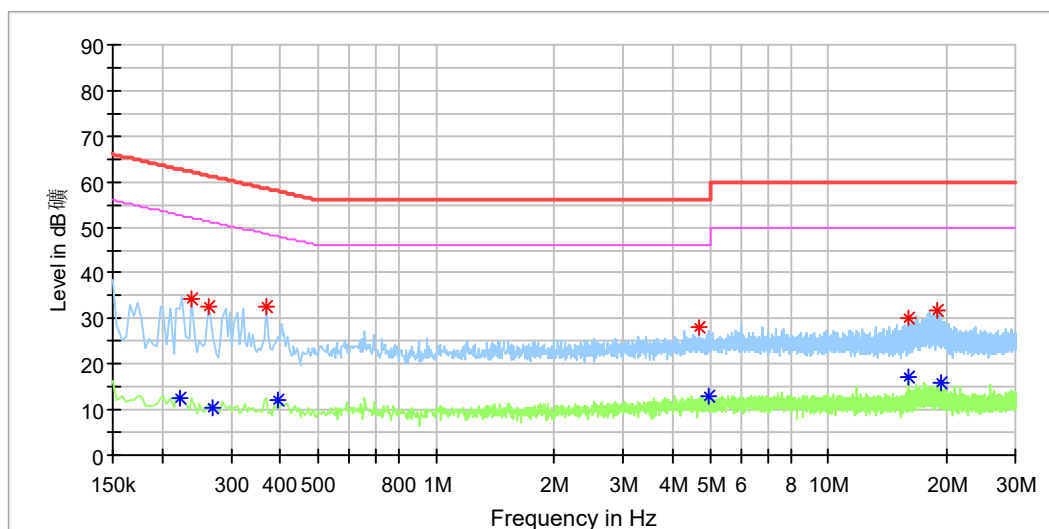
Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.178000	42.46	---	64.58	22.12	N	9.8
0.186000	---	20.70	54.21	33.52	N	9.8
0.398000	---	19.49	47.90	28.41	N	9.8
0.398000	36.60	---	57.90	21.30	N	9.8
1.170000	27.61	---	56.00	28.39	N	9.8
1.182000	---	11.39	46.00	34.61	N	9.8
1.777500	44.11	---	56.00	11.89	N	9.8
1.777500	---	37.18	46.00	8.82	N	9.8
3.554000	33.99	---	56.00	22.01	N	9.9
3.558000	---	25.54	46.00	20.46	N	9.9
17.998000	41.71	---	60.00	18.29	N	10.2
18.222000	---	32.49	50.00	17.51	N	10.2

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
1.777500	---	36.94	46.00	9.06	1000.0	9.000	N	9.8
1.777500	42.46	---	56.00	13.54	1000.0	9.000	N	9.8

EUT Information

EUT Name:	Wireless Charging Cable
Order No:	168365942
Model:	NS-AWCB4C
Test mode:	ON, Idle mode
Test Voltage:	AC 120V/60Hz
Test By:	Richard Lin
Review By:	Gary Chen
Tem./Hum./Pressure:	23.8°C/52%/101kPa

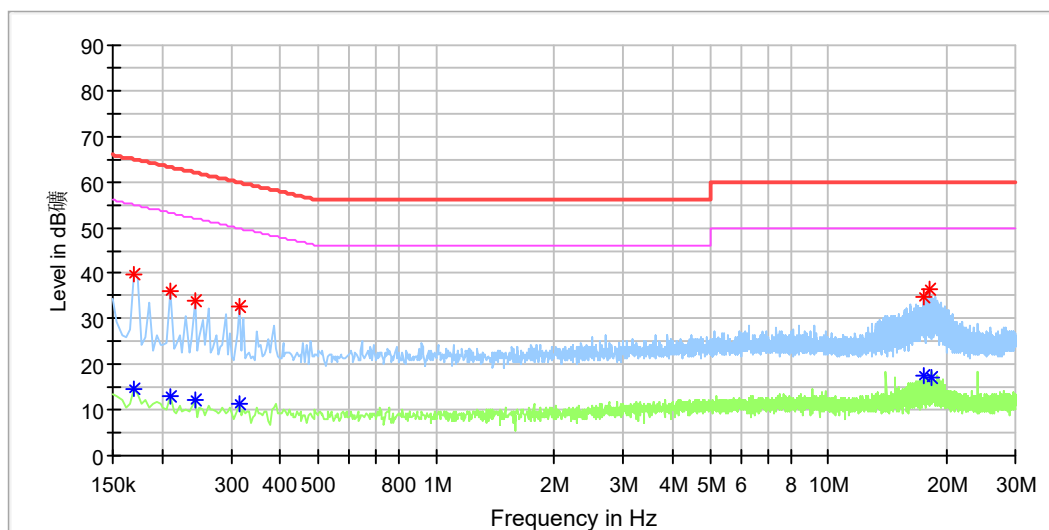


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.222000	---	12.67	52.74	40.07	L1	9.9
0.238000	34.53	---	62.17	27.63	L1	9.9
0.262000	32.72	---	61.37	28.65	L1	9.9
0.270000	---	10.57	51.12	40.55	L1	9.9
0.370000	32.75	---	58.50	25.75	L1	9.9
0.394000	---	12.30	47.98	35.68	L1	9.9
4.706000	27.84	---	56.00	28.16	L1	10.2
4.986000	---	12.95	46.00	33.05	L1	10.2
15.930000	30.02	---	60.00	29.98	L1	10.4
15.998000	---	17.30	50.00	32.70	L1	10.4
19.010000	31.84	---	60.00	28.16	L1	10.4
19.430000	---	15.83	50.00	34.17	L1	10.4

EUT Information

EUT Name:	Wireless Charging Cable
Order No:	168365942
Model:	NS-AWCB4C
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Test Voltage:	AC 120V/60Hz
Test By:	Richard Lin
Review By:	Gary Chen
Tem./Hum./Pressure:	23.8°C/52%/101kPa



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.170000	39.73	---	64.96	25.23	N	9.8
0.170000	---	14.64	54.96	40.32	N	9.8
0.210000	---	13.01	53.21	40.19	N	9.8
0.210000	35.84	---	63.21	27.36	N	9.8
0.242000	33.86	---	62.03	28.17	N	9.8
0.242000	---	11.95	52.03	40.08	N	9.8
0.314000	---	11.26	49.86	38.61	N	9.8
0.314000	32.55	---	59.86	27.32	N	9.8
17.474000	34.54	---	60.00	25.46	N	10.2
17.474000	---	17.48	50.00	32.52	N	10.2
18.142000	36.30	---	60.00	23.70	N	10.2
18.278000	---	17.20	50.00	32.80	N	10.2

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5.1.5 Radiated Emission

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.209
Basic standard	: ANSI C63.4: 2014
Frequency range	: 30 - 1000MHz *
Limits	: Refer to 15.209(a)
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

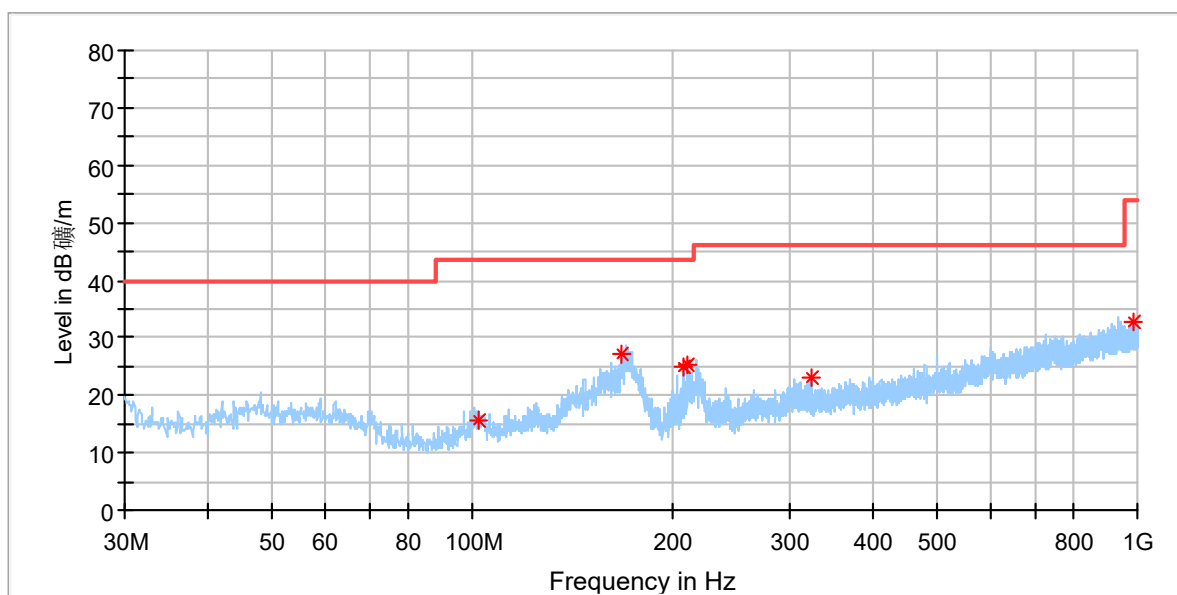
Date of testing	: 09.04.2022
Input voltage	: AC 120V/60Hz
Operation mode	: A, B
Ambient temperature	: 23.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

Refer to following test plots for details of test result.

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

EUT Information

EUT Name: Wireless Charging Cable
 Order No: 168365942
 Model: NS-AWCB4C
 Test Mode: ON, Wireless charging mode
 Test Voltage: AC 120V/60Hz
 Test By: Richard Lin
 Review By: Gary Chen
 Tem./Hum./Pressure: 23.8°C/55%/101kPa

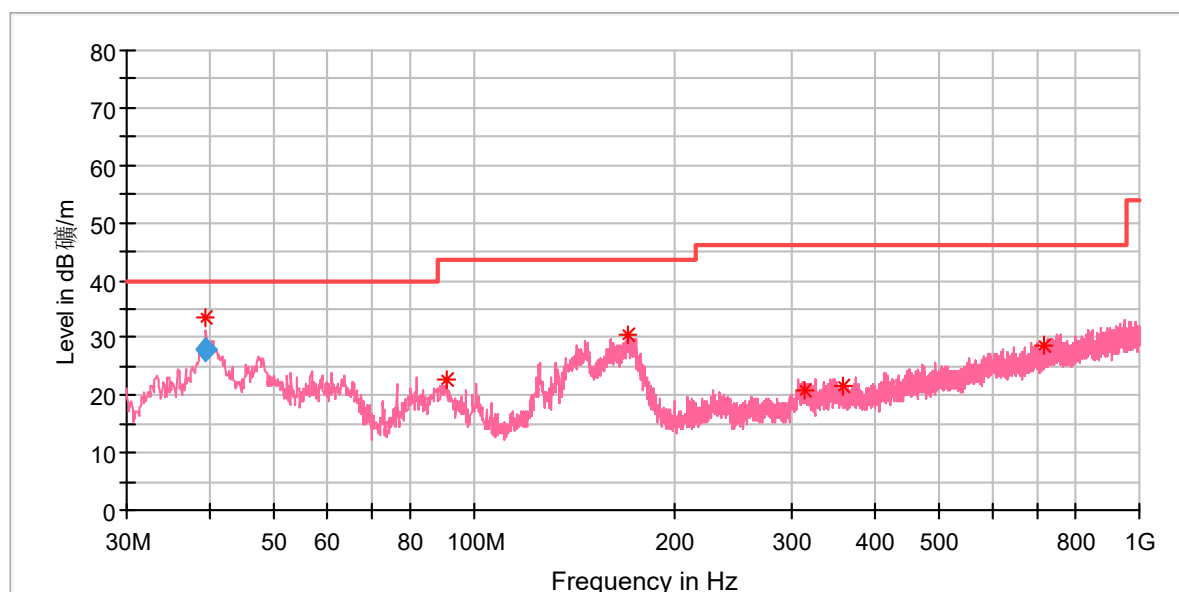


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
102.265000	15.69	43.50	27.81	100.0	H	310.0	17.3
168.128000	27.29	43.50	16.21	100.0	H	255.0	21.5
207.122000	24.85	43.50	18.65	100.0	H	344.0	17.6
210.905000	25.31	43.50	18.19	100.0	H	160.0	17.9
323.522000	22.93	46.00	23.07	100.0	H	239.0	21.7
988.457000	32.88	54.00	21.12	100.0	H	117.0	32.3

EUT Information

EUT Name:	Wireless Charging Cable
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Model:	NS-AWCB4C
Test Mode:	ON, Wireless charging mode
Test Voltage:	AC 120V/60Hz
Test By:	Richard Lin
Review By:	Gary Chen
Tem./Hum./Pressure:	23.8°C/55%/101kPa



Critical_Freqs

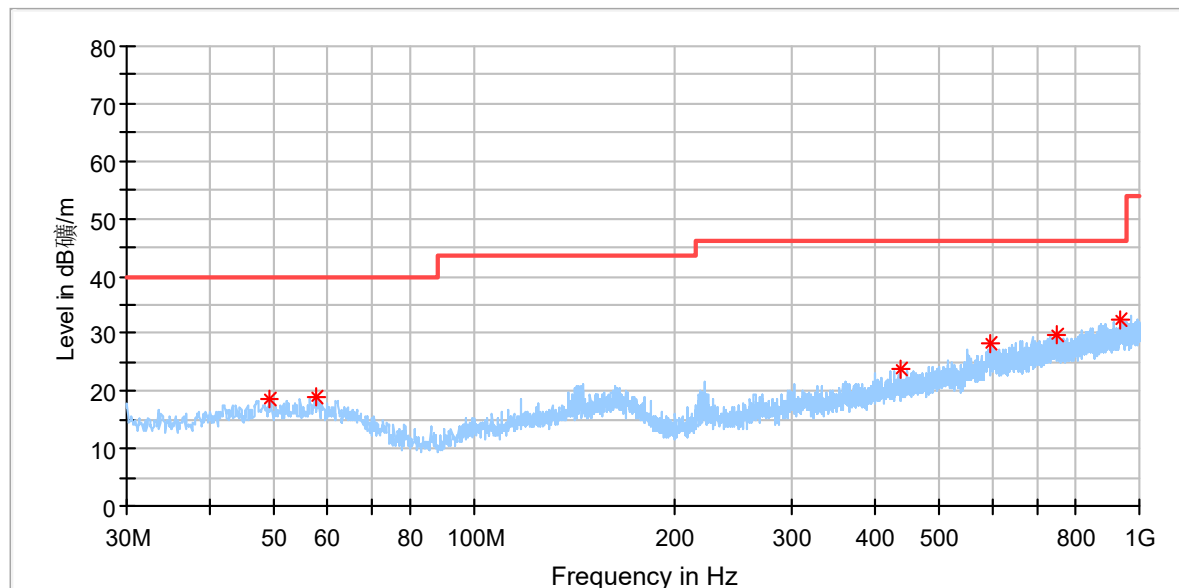
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
39.566000	33.35	40.00	8.70	100.0	V	240.0	19.4
91.013000	22.68	43.50	20.82	100.0	V	21.0	15.5
170.165000	30.44	43.50	13.06	100.0	V	240.0	21.7
313.143000	20.99	46.00	25.01	100.0	V	0.0	21.8
358.636000	21.71	46.00	24.29	100.0	V	268.0	22.6
715.984000	28.63	46.00	17.37	100.0	V	340.0	29.3

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)
39.566000	27.90	40.00	12.10	1000.0	120.000	100.0	V	240.0	19.5

EUT Information

EUT Name:	Wireless Charging Cable
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Model:	NS-AWCB4C
Test Mode:	ON, Idle mode
Test Voltage:	AC 120V/60Hz
Test By:	Richard Lin
Review By:	Gary Chen
Tem./Hum./Pressure:	23.8°C/55%/101kPa

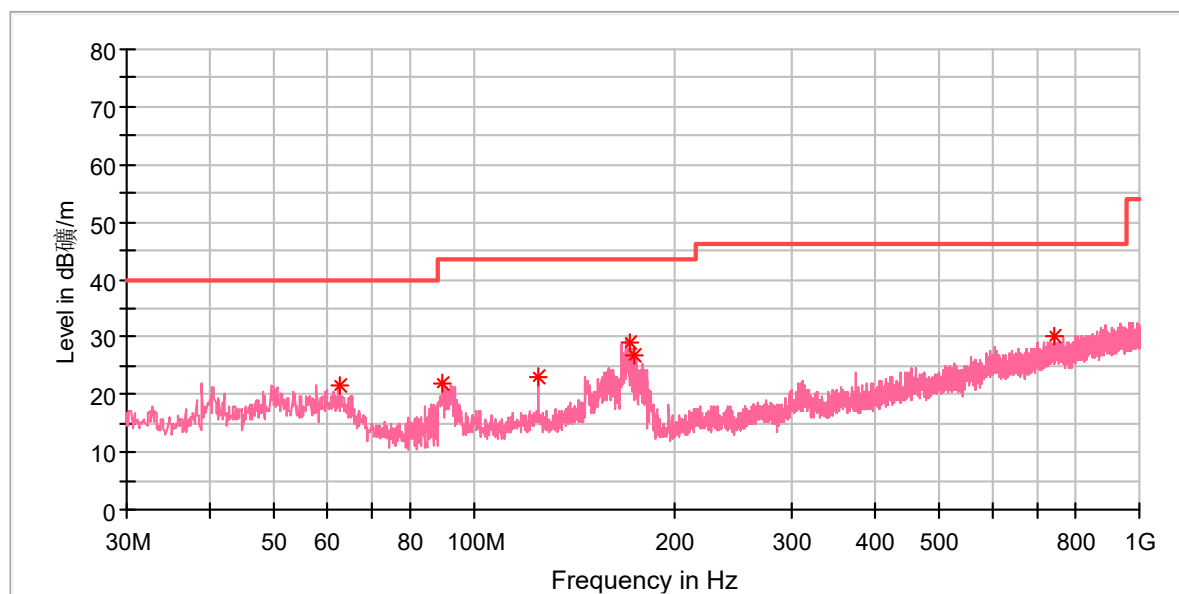


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
435.848000	23.96	46.00	22.04	100.0	H	24.0	23.8
750.904000	29.71	46.00	16.29	100.0	H	56.0	30.5
935.786000	32.46	46.00	13.54	100.0	H	150.0	32.2
595.413000	28.35	46.00	17.65	100.0	H	174.0	27.7
49.109000	18.44	40.00	21.56	100.0	H	293.0	21.0
57.742000	18.89	40.00	21.11	100.0	H	348.0	21.4

EUT Information

EUT Name:	Wireless Charging Cable
Order No:	168365942
Model:	NS-AWCB4C
Test Mode:	ON, Idle mode
Test Voltage:	AC 120V/60Hz
Test By:	Richard Lin
Review By:	Gary Chen
Tem./Hum./Pressure:	23.8°C/55%/101kPa



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
62.592000	21.42	40.00	18.58	100.0	V	111.0	20.5
89.752000	22.11	43.50	21.39	100.0	V	4.0	15.3
124.963000	23.02	43.50	20.48	100.0	V	151.0	19.1
171.717000	29.17	43.50	14.33	100.0	V	248.0	21.3
173.463000	26.75	43.50	16.75	100.0	V	248.0	20.9
746.151000	30.15	46.00	15.85	100.0	V	276.0	30.4

6 Photographs of the Test Set-Up

Refer to test photo document.

7 List of Tables

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