

<b>Prüfbericht-Nr.:</b> <i>Test report No.:</i>	<b>60374468 001</b>	<b>Auftrags-Nr.:</b> <i>Order No.:</i>	168260292	Seite 1 von 25 <i>Page 1 of 25</i>	
<b>Kunden-Referenz-Nr.:</b> <i>Client reference No.:</i>	N/A	<b>Auftragsdatum:</b> <i>Order date:</i>	10.04.2020		
<b>Auftraggeber:</b> <i>Client:</i>	<b>Salom Electric (Xiamen) Co., Ltd.</b> 31 Building, Huli Industrial District, Xiamen, Fujian 361006, P.R. China				
<b>Prüfgegenstand:</b> <i>Test item:</i>	Wireless Charger				
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type No.:</i>	CHR-0662 (Trademark: MOTOROLA)				
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	FCC and IC approval				
<b>Prüfgrundlage:</b> <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.201 RSS-216 issue 2 Janyary 2016 CFR47 FCC Part 15: Subpart C Section 15.207 RSS-GEN issue 5 March 2019 CFR47 FCC Part 15: Subpart C Section 15.209 RSS-102 issue 5 March 2015 CFR47 FCC Part 2: Subpart J Section 2.1091				
<b>Wareneingangsdatum:</b> <i>Date of receipt:</i>	10.04.2020	Refer to photos document			
<b>Prüfmuster-Nr.:</b> <i>Test sample No.:</i>	A002809801-008				
<b>Prüfzeitraum:</b> <i>Testing period:</i>	10.04.2020 - 25.05.2020				
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.				
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.				
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Pass				
<b>geprüft von / tested by:</b>		<b>kontrolliert von / reviewed by:</b>			
					
09.07.2020	Jackson Yang / Project Engineer	09.07.2020	Winnie Hou / Technical Certifier		
<b>Datum</b> <i>Date</i>	<b>Name/Stellung</b> <i>Name/Position</i>	<b>Unterschrift</b> <i>Signature</i>	<b>Datum</b> <i>Date</i>	<b>Name/Stellung</b> <i>Name/Position</i>	<b>Unterschrift</b> <i>Signature</i>
<b>Sonstiges / Other:</b>					
FCC ID: 2ARXUCHR0662 IC: 24563-CHR0662, HVIN: CHR-0662					
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <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 = mangelhalt 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					
<b>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.</b>					
<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

## ***Test Summary***

**5.1.1 ANTENNA REQUIREMENT**

*RESULT: Pass*

**5.1.2 99% BANDWIDTH**

*RESULT: Pass*

**5.1.3 RADIATED SPURIOUS EMISSIONS**

*RESULT: Pass*

**5.1.4 CONDUCTED EMISSIONS**

*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.**

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**

**TÜV Rheinland (Shenzhen) Co., Ltd.**

<b>Radio Spectrum Testing</b>				
<b>Description</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Serial No.</b>	<b>Cal. until</b>
Wireless Connectivity Tester	R&S	CMW270	101375	20.08.2020
Signal Analyzer	R&S	FSV 40	101441	20.08.2020
Vector Signal Generator	R&S	SMBV100A	263301	21.08.2020
Signal Generator	R&S	SMB100A	115186	21.08.2020
OSP	R&S	OSP 150	101017	17.12.2020
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A
Test Software	R&S	WMS32 (V10.50.10)	N/A	N/A
Power Meter	R&S	NRP2	107105	17.12.2020
Wideband Power Sensor	R&S	NRP-Z81	105350	17.12.2020
Humid & Temp Programmable Tester	BOST	NTH090-60	19040801	16.04.2021
Shielding Room 8#	Albatross	SR8	APC17151-SR8	23.07.2020
<b>Unwanted Emission Testing</b>				
<b>Description</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Serial No.</b>	<b>Cal. until</b>
EMI Test Receiver	R&S	ESR 7	102021	19.08.2020
Signal Analyzer	R&S	FSV 40	101439	21.08.2020
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	21.08.2020
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	20.08.2020
Amplifier	R&S	SCU-18F	180070	20.08.2020
Amplifier	R&S	SCU40A	100475	20.08.2020
Trilog Broadband Antenna (30 MHz - 1 GHz)	Schwarzbeck	VULB9162	193	02.09.2020

Double-Ridged Antenna (1-18 GHz)	ETS-LINDGREN	3117	00218717	02.09.2020
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	02.09.2020
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	01.09.2020
Wideband Ridged Horn Antenna (12-18 GHz)	Steatite	QMS-00208	18313	02.09.2020
Test software	R&S	V10.40.10-EMC32	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	07.06.2020
<b>Conducted Emissions</b>				
<b>Description</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Serial No.</b>	<b>Cal. until</b>
EMI Test Receiver	R&S	ESR3	102428	03.09.2020
Artificial Mains Network	R&S	ENV216	102333	19.08.2020
Attenuator	R&S	ESH2Z31	100300	19.08.2020
EMC32 test software	R&S	EMC32(Ver.10.50.01)	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 ( $U_{cispr}$ )
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	$\pm 3.70$ dB $\pm 3.30$ dB	$\pm 3.8$ dB $\pm 3.4$ dB
Radiated Emission (3m SAC)	Level accuracy (30MHz to 1000MHz)	$\pm 4.52$ dB	$\pm 6.3$ dB
	Level accuracy (above 1000MHz)	$\pm 4.37$ dB	N/A

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at 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 device is a Wireless Charger.

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 Charger
Type Designation	CHR-0662
Trademark	MOTOROLA
FCC ID	2ARXUCHR0662
IC	24563-CHR0662
Input Voltage	DC 15V@1.5A via AC/DC Adapter
Test voltage	AC 120V, 60Hz
Technical Specification of WPT	
Operating Frequency	127.7KHz
Extreme Temperature Range	0°C - +30°C
Modulation	FSK
Antenna Type	Induction coil
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

- FCC/IC Label and Location Info

- Block Diagram

## 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	Rating
adapter	SALOM	SC-31	Input: AC 100-240V,50/60Hz,0.8A Output: DC 5V,3A or 9V 3A
Mobile phone	MOTOROLA	EDGE+	N/A
USB cable	LI QI ELECTRONIC	MC00CCB10A	1m Type C to Type C cable (shielded)

### 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 1GHz)

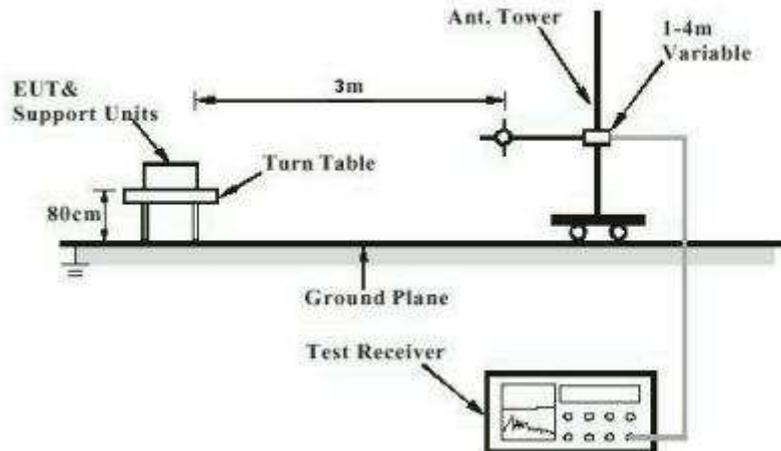


Diagram of Measurement Configuration for Conducted Transmitter Measurement

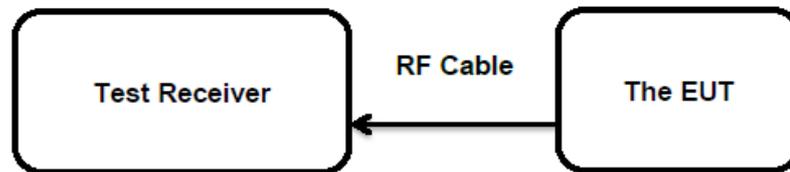
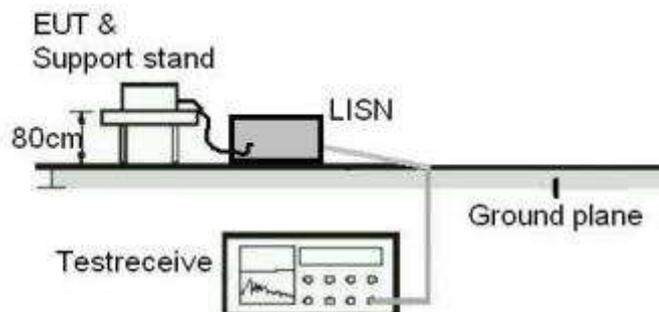


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement



## 5 Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

RESULT:

Pass

**Test Specification**

Test standard	:	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, the EUT has an 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.

### 5.1.2 99% Bandwidth

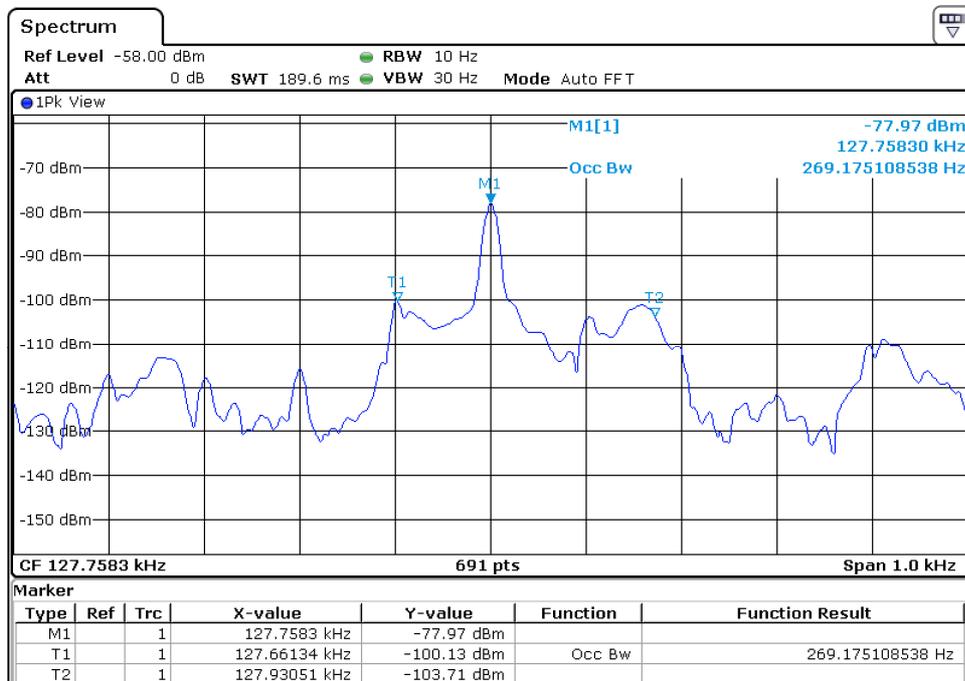
**RESULT:**
**Pass**
**Test Specification**

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

**Test Setup**

Date of testing : 26.04.2020  
 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.



### 5.1.3 Radiated Spurious Emissions

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

Test standard	:	FCC Part 15.201 RSS-216 Clause 6.2.2.2
Basic standard	:	ANSI C63.10: 2013 & ANSI C63.4:2014
Limits	:	Refer to 15.209(a) RSS-Gen Issue 5 Table 4
Kind of test site	:	3m Semi-anechoic Chamber

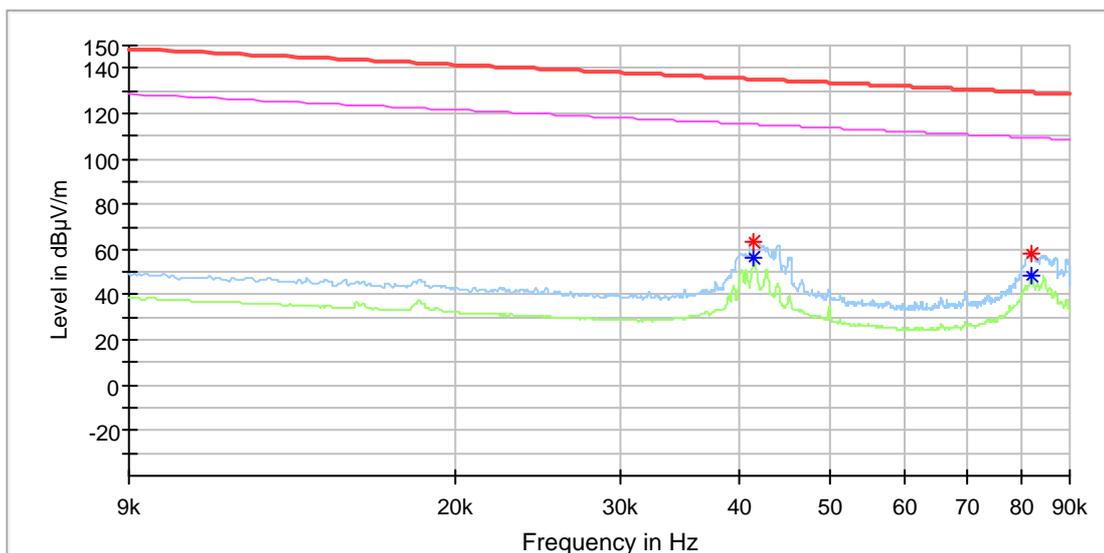
**Test Setup**

Date of testing	:	25.04.2020
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A
Ambient temperature	:	24 °C
Relative humidity	:	45 %
Atmospheric pressure	:	101 kPa

Refer to following test plots for details of test result.

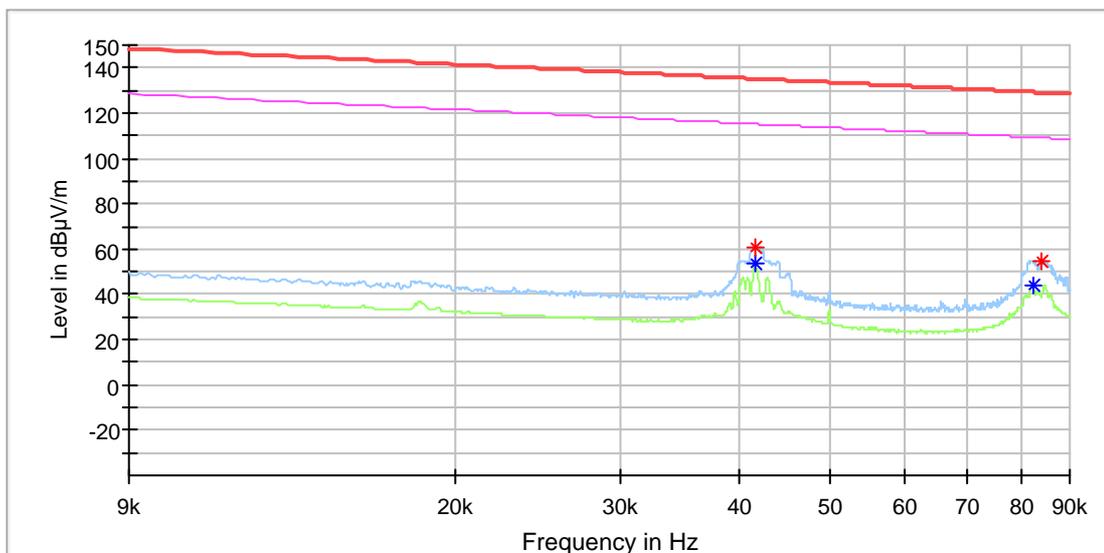
**9KHz – 90KHz**

X axis



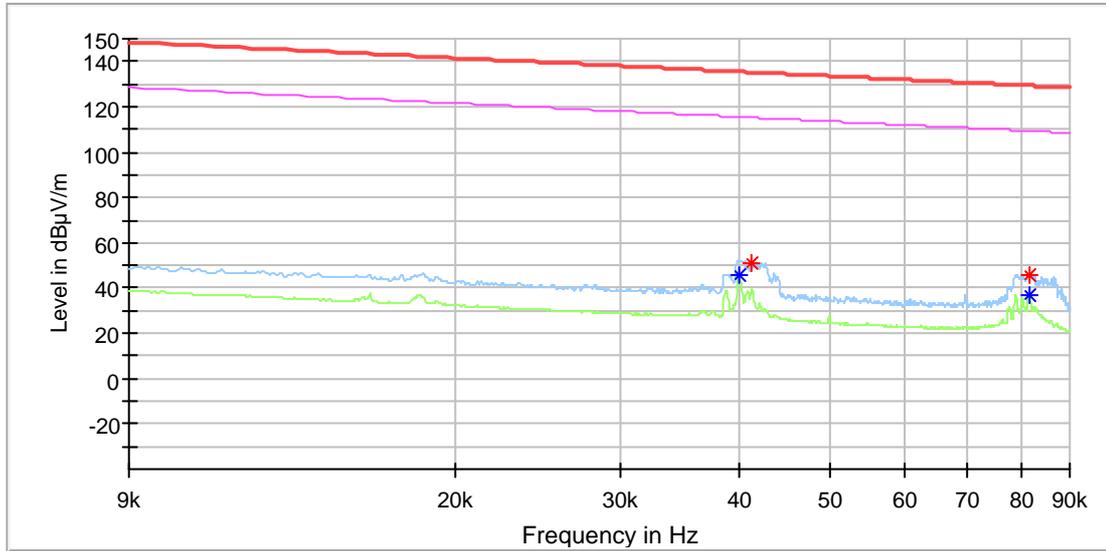
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Preamp (dB)
0.041458	63.55	---	135.24	71.69	100.0	V	265.0	20.0	0.0
0.041516	---	56.68	115.23	58.55	100.0	V	265.0	20.0	0.0
0.082016	57.80	---	129.32	71.52	100.0	V	265.0	20.0	0.0
0.082016	---	48.55	109.32	60.76	100.0	V	265.0	20.0	0.0

Y axis



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Preamp (dB)
0.041631	60.41	---	135.20	74.79	100.0	V	239.0	20.0	0.0
0.041689	---	53.41	115.19	61.79	100.0	V	239.0	20.0	0.0
0.082305	---	44.03	109.29	65.26	100.0	V	239.0	20.0	0.0
0.083867	54.42	---	129.12	74.70	100.0	V	263.0	20.0	0.0

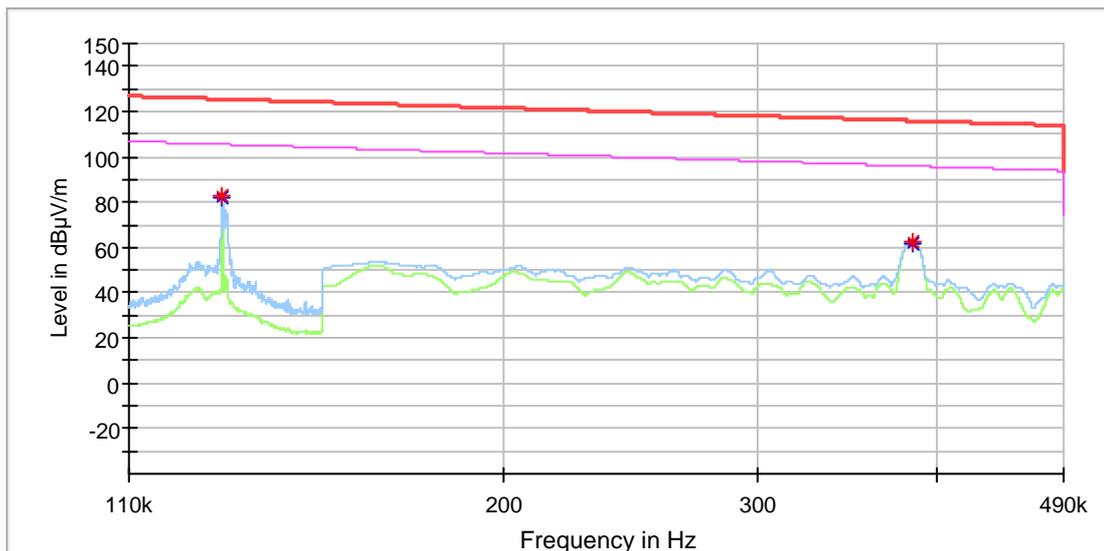
Z axis



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Preamp (dB)
0.040069	---	46.00	115.54	69.53	100.0	V	286.0	20.0	0.0
0.041342	50.66	---	135.26	84.60	100.0	V	192.0	20.0	0.0
0.081379	---	37.09	109.39	72.29	100.0	V	286.0	20.0	0.0
0.081553	46.07	---	129.37	83.30	100.0	V	286.0	20.0	0.0

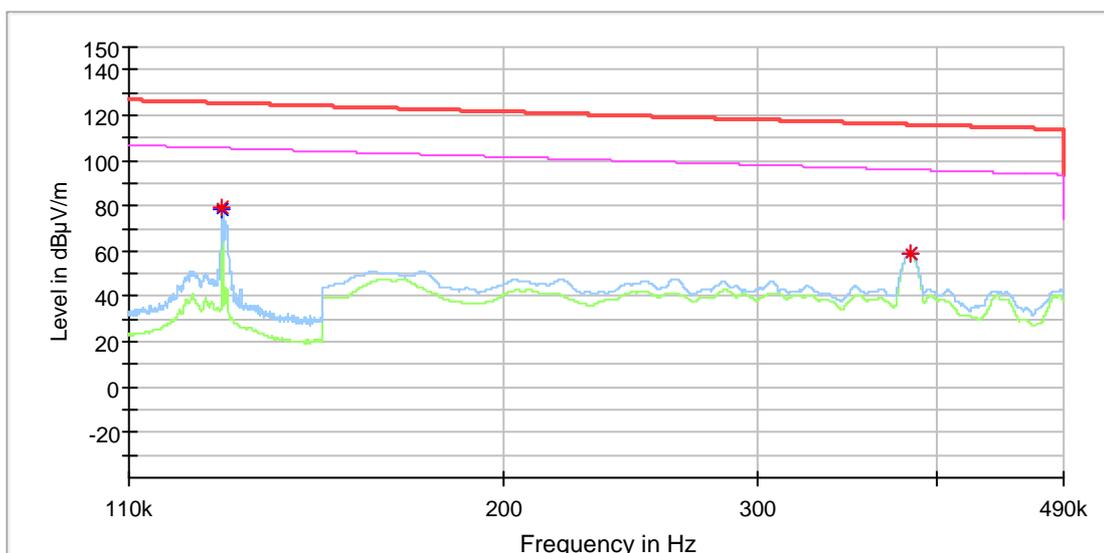
**110KHz – 490KHz**

X axis



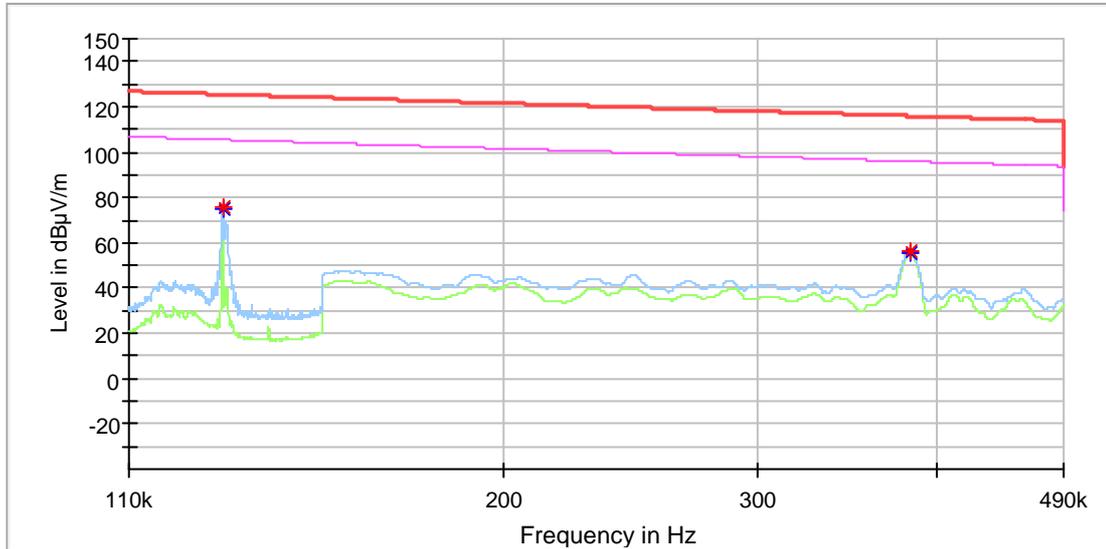
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Preamp (dB)
0.127743	82.70	---	125.47	42.77	100.0	V	265.0	20.0	0.0
0.127743	---	82.11	105.47	23.36	100.0	V	265.0	20.0	0.0
0.384550	62.22	---	115.90	53.68	100.0	V	258.0	20.0	0.0
0.384600	---	62.02	95.90	33.89	100.0	V	263.0	20.0	0.0

Y axis



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Preamp (dB)
0.127743	79.07	---	125.47	46.40	100.0	V	0.0	20.0	0.0
0.127743	---	78.59	105.47	26.88	100.0	V	0.0	20.0	0.0
0.383350	---	58.99	95.93	36.94	100.0	V	189.0	20.0	0.0
0.383550	59.21	---	115.93	56.71	100.0	V	189.0	20.0	0.0

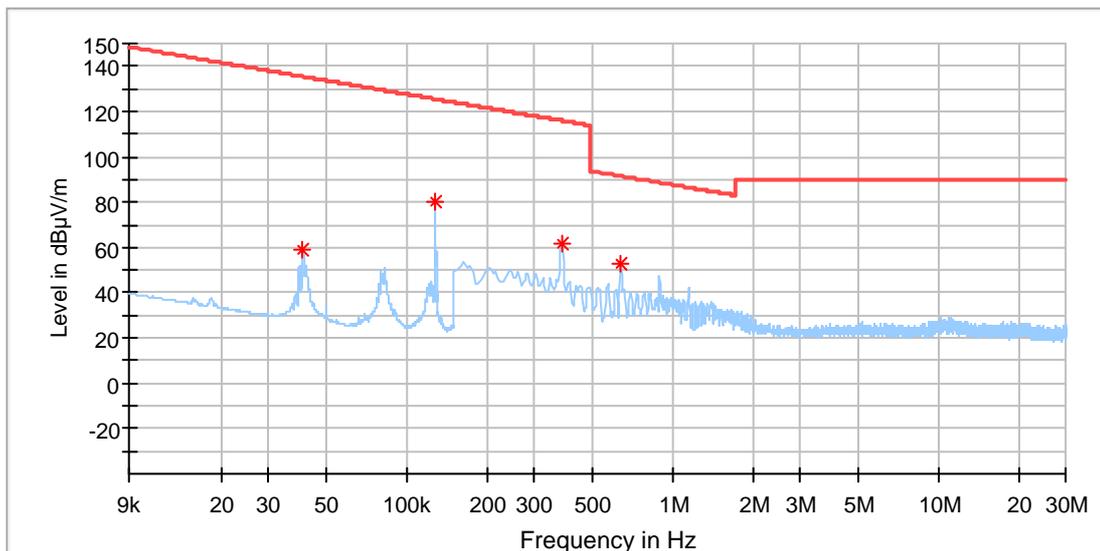
Z axis



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Preamp (dB)
0.127772	75.73	---	125.47	49.74	100.0	V	262.0	20.0	0.0
0.127772	---	75.07	105.47	30.39	100.0	V	262.0	20.0	0.0
0.383300	---	55.29	95.93	40.64	100.0	V	279.0	20.0	0.0
0.383350	56.39	---	115.93	59.54	100.0	V	279.0	20.0	0.0

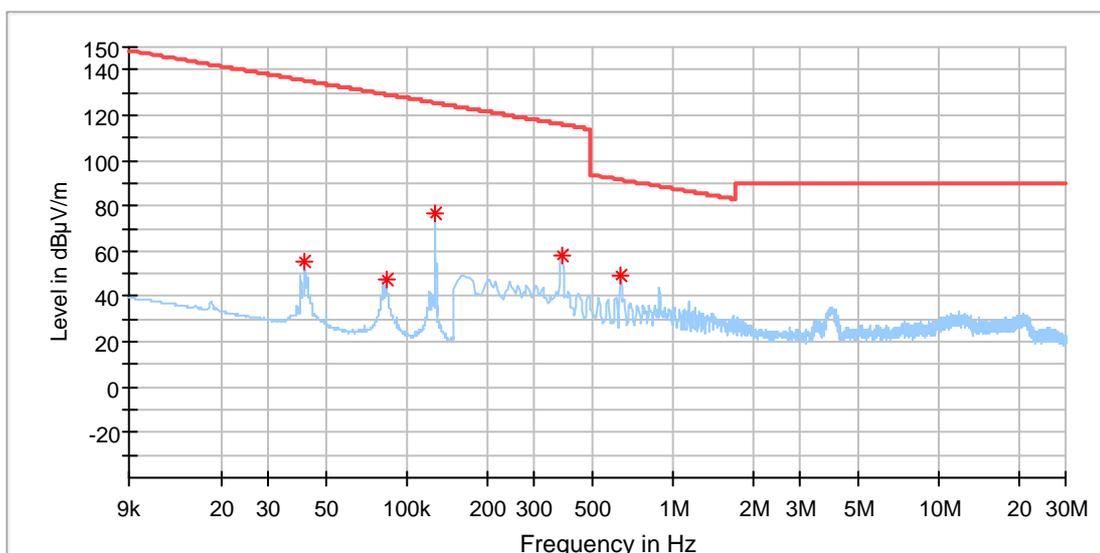
**9KHz – 30MHz**

X axis



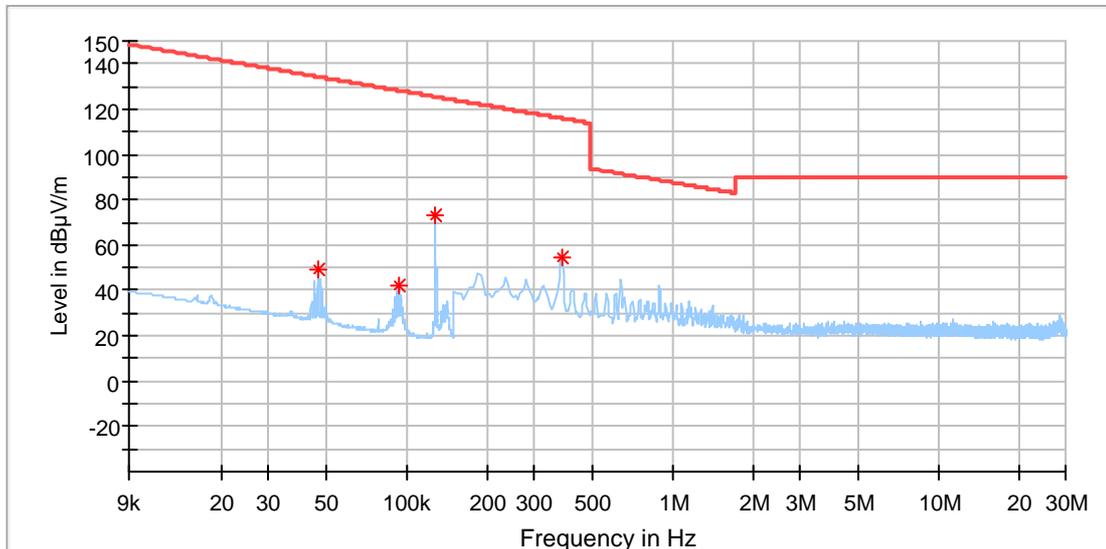
Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Preamp (dB)	Trd Corr. (dB/m)
0.040524	58.68	135.44	76.76	100.0	V	263.0	20.0	0.0	20.0
0.127843	80.62	125.46	44.84	100.0	V	263.0	20.0	0.0	20.0
0.382655	61.61	115.95	54.34	100.0	V	272.0	20.0	0.0	20.0
0.637258	52.81	91.52	38.71	100.0	V	254.0	20.0	0.0	20.0

Y axis



Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Preamp (dB)	Trd Corr. (dB/m)
0.041027	55.48	135.33	79.85	100.0	V	217.0	20.0	0.0	20.0
0.083327	47.07	129.18	82.11	100.0	V	241.0	20.0	0.0	20.0
0.127742	76.92	125.47	48.55	100.0	V	0.0	20.0	0.0	20.0
0.382655	58.16	115.95	57.78	100.0	V	4.0	20.0	0.0	20.0
0.637258	49.46	91.52	42.06	100.0	V	4.0	20.0	0.0	20.0

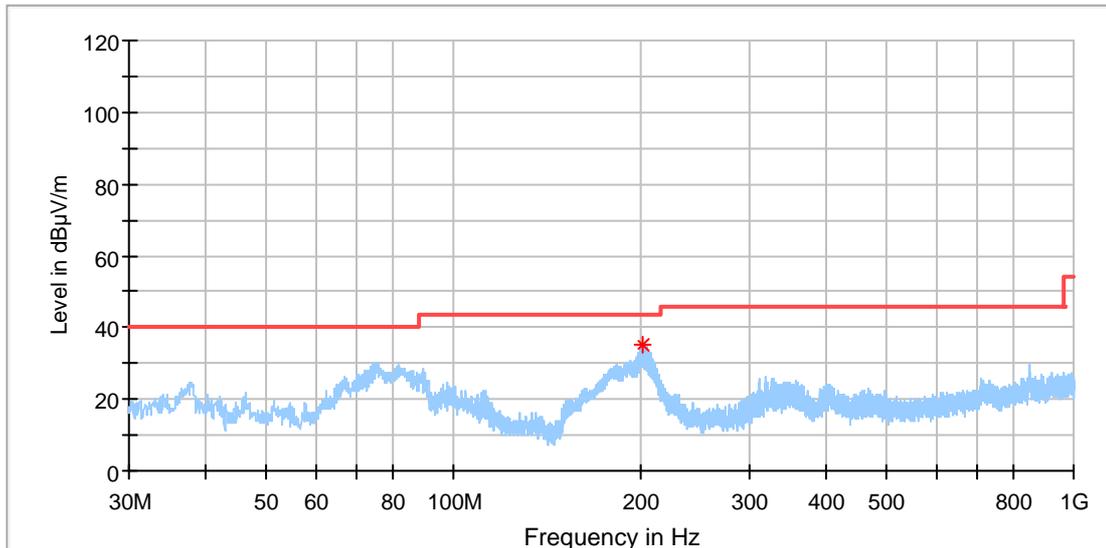
Z axis



Frequency (MHz)	RMS (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Preamp (dB)	Trd Corr. (dB/m)
0.046164	49.11	134.31	85.20	100.0	V	287.0	20.0	0.0	20.0
0.093701	42.18	128.16	85.98	100.0	V	216.0	20.0	0.0	20.0
0.127742	73.39	125.47	52.08	100.0	V	239.0	20.0	0.0	20.0
0.382655	54.23	115.95	61.72	100.0	V	222.0	20.0	0.0	20.0

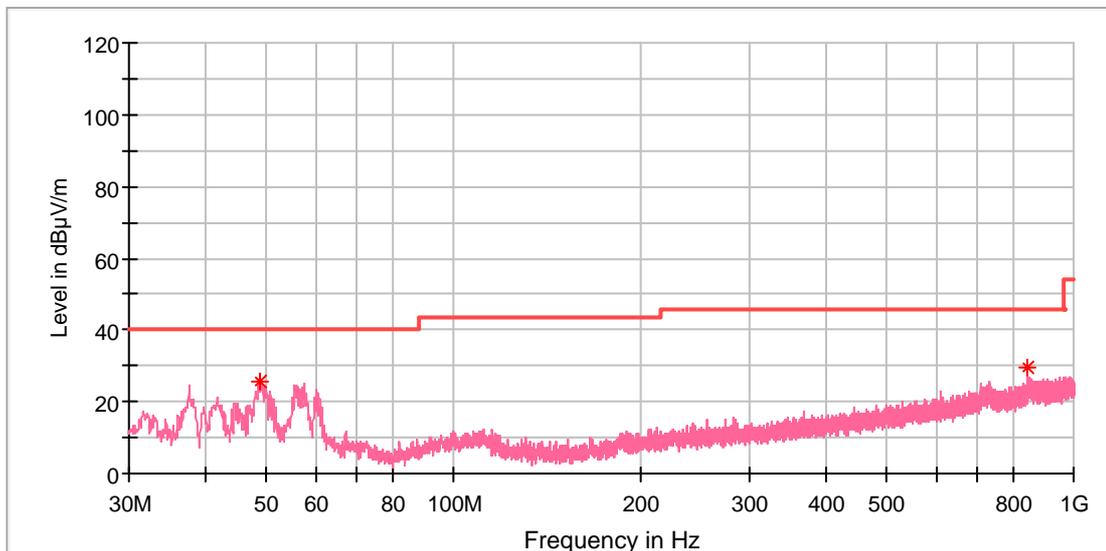
**30MHz - 1GHz**

## Horizontal



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
201.350500	35.38	---	43.50	8.12	100.0	H	5.0	-19.3

## Vertical



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
48.721000	25.94	---	40.00	14.06	100.0	V	194.0	-18.6
844.994000	29.55	---	46.00	16.45	100.0	V	240.0	-6.0

## 5.1.4 Conducted emissions

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

Test standard	:	FCC Part 15.201 RSS-216 Clause 6.2.2.1
Basic standard	:	ANSI C63.4:2014
Frequency range	:	150KHz - 30MHz
Classification	:	Class B
Limit	:	FCC Part 15.207 (a)
Kind of test site	:	3m Semi-anechoic Chamber

**Test Setup**

Date of testing	:	21.05.2020
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A
Earthing	:	Not connected
Ambient temperature	:	25 °C
Relative humidity	:	56 %
Atmospheric pressure	:	101 kPa

Refer to following test plots for details of test result.

L Line

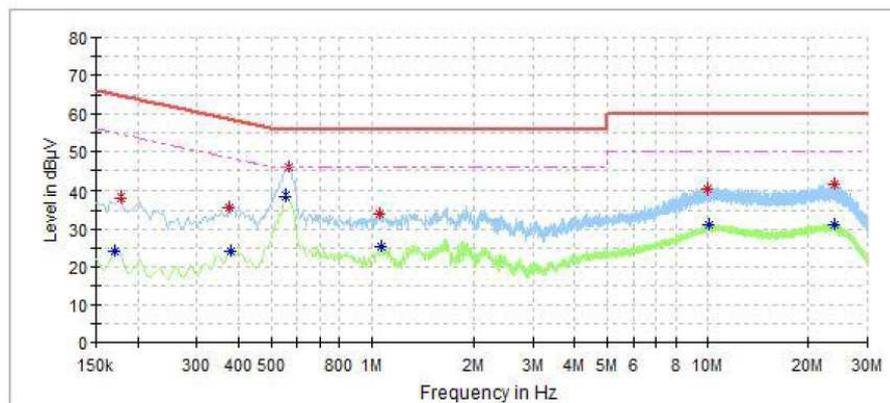
L

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## Test Report

### EUT Information

EUT Name:	Wireless Charger
Order No.:	168260292
Model:	CHR-0662
Test Mode:	On
Test Voltage:	AC 120/60Hz
Test By:	Charlie Wang
Review By:	Gary Chen
Remark:	



### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.170000	---	24.08	54.96	30.88	L1	9.6
0.178000	38.05	---	64.58	26.53	L1	9.6
0.374000	35.86	---	58.41	22.56	L1	9.7
0.378000	---	24.10	48.32	24.22	L1	9.7
0.556000	---	38.52	46.00	7.48	L1	9.7
0.568000	46.00	---	56.00	10.00	L1	9.7
1.056000	34.00	---	56.00	22.00	L1	9.7
1.068000	---	25.30	46.00	20.70	L1	9.7
9.968000	40.28	---	60.00	19.72	L1	10.0
10.072000	---	31.09	50.00	18.91	L1	10.0
23.924000	41.38	---	60.00	18.62	L1	10.5
23.944000	---	31.36	50.00	18.64	L1	10.5

N Line

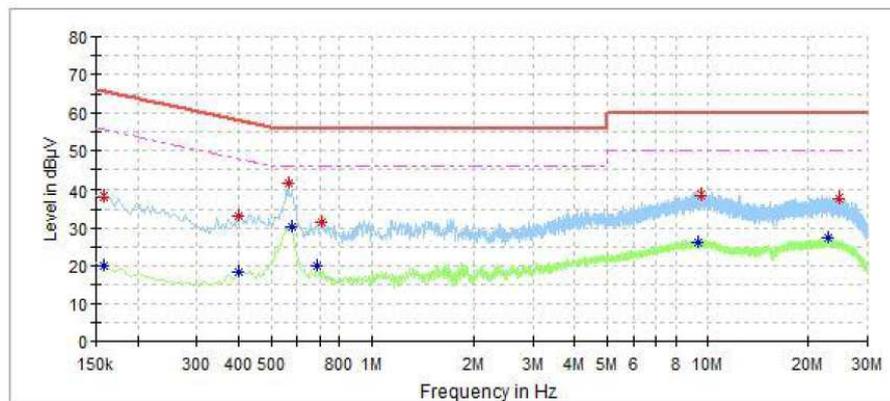
N

1 / 1

## Test Report

### EUT Information

EUT Name:	Wireless Charger
Order No.:	168260292
Model:	CHR-0662
Test Mode:	On
Test Voltage:	AC 120/60Hz
Test By:	Charlie Wang
Review By:	Gary Chen
Remark:	



### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.158000	---	20.00	55.57	35.57	N	9.6
0.158000	37.98	---	65.57	27.59	N	9.6
0.402000	---	18.62	47.81	29.19	N	9.7
0.402000	33.14	---	57.81	24.67	N	9.7
0.564000	41.46	---	56.00	14.54	N	9.7
0.576000	---	30.28	46.00	15.72	N	9.7
0.688000	---	20.23	46.00	25.77	N	9.7
0.708000	31.78	---	56.00	24.22	N	9.7
9.356000	---	26.33	50.00	23.67	N	10.0
9.568000	38.74	---	60.00	21.26	N	10.0
22.868000	---	27.29	50.00	22.71	N	10.5
24.772000	37.74	---	60.00	22.26	N	10.5