Prüfbericht - Produkte
Test Report - Products

TÜVRheinland®

Prüfbericht-Nr.: *Test report no.:*	**CN21WM2R 001**	**Auftrags-Nr.:** *Order no.:*	168312949	Seite 1 von 24 *Page 1 of 24*
Kunden-Referenz-Nr.: *Client reference no.:*	N/A	**Auftragsdatum:** *Order date:*	2021-03-31	
Auftraggeber: *Client:*	**Hermès Sellier** 24 rue du Faubourg Saint-Honoré, Paris 75008 France			
Prüfgegenstand: *Test item:*	Wireless Charging Change Tray Volt'H			
Bezeichnung / Typ-Nr.: *Identification / Type no.:*	VOLTHTRAY			
Auftrags-Inhalt: *Order content:*	Type test			
Prüfgrundlage: *Test specification:*	CFR47 FCC Part 15: Subpart C Section 15.201 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 2: Subpart J Section 2.1093		RSS-216 issue 2 Janyary 2016 RSS-GEN issue 5 April 2018 RSS-102 issue 5 March 2015	

Wareneingangsdatum: *Date of sample receipt:*	2021-04-20	Refer to photos document
Prüfmuster-Nr.: *Test sample no.:*	A003028112-004	
Prüfzeitraum: *Testing period:*	2021-04-26 – 2021-04-30	
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 Lan Signed by: Alex Lan	**genehmigt von:** *authorized by:*	X Winnie Hou Signed by: Winnie Hou
Datum: *Date:* 2021-07-02		**Ausstellungsdatum:** *Issue date:* 2021-07-02	
Stellung / Position	Senior Project Engineer	**Stellung** / Position	Department Manager

Sonstiges / *Other:* FCC ID: 2AZI9-VOLTHTRAY
IC: 27146-VOLTHTRAY, HVIN: 314134M

Zustand des Prüfgegenstandes bei Anlieferung:
Condition of the test item at delivery: Prüfmuster vollständig und unbeschädigt
Test item complete and undamaged:

* 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*

TÜV Rheinland (Shenzhen) Co., Ltd. 1601 R&D Room, 1602-1604, 17-18F, Building 7 Site C, Vanke Cloud City Phase I, Xingke First Street, Xili Street, Xili Community, Nanshan District, Shenzhen 518052, P.R. China
Mail: service@de.tuv.com · Web: www.tuv.com

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 EMISSIONS
RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

None

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No. 362 Huanguan Road Middle, Longhua District, 518110, Shenzhen, P. R. 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	Rohde & Schwarz	FSV 40	101441	2021-08-20
OSP	Rohde & Schwarz	OSP 150	101017	2021-12-20
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	2021-07-23
Unwanted Emission Testing				
Description	**Manufacturer**	**Model**	**Serial No.**	**Cal. Until**
EMI Test Receiver	Rohde & Schwarz	ESR 7	102021	2021-08-19
Signal Analyzer	Rohde & Schwarz	FSV 40	101439	2021-08-21
System Controller Interface	Rohde & Schwarz	SCI-100	S10010038	N/A
Filterbank	Rohde & Schwarz	Wlan	100759	2021-08-21
OSP	Rohde & Schwarz	OSP 120	102040	N/A
Pre-amplifier	Rohde & Schwarz	SCU08F1	08320031	2021-08-20
Amplifier	Rohde & Schwarz	SCU-18F	180070	2021-08-20
Amplifier	Rohde & Schwarz	SCU40A	100475	2021-08-21
Trilog Broadband Antenna (30 MHz - 1 GHz)	Schwarzbeck	VULB9162	193	2021-09-02
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2021-09-02
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2021-09-02
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2021-09-01
Wideband Ridged Horn Antenna (12-18 GHz)	Steatite	QMS-00208	18313	2021-09-02
Test software	Rohde & Schwarz	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	2021-06-07

Conducted Emission				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
EMI Test Receiver	R&S	ESR3	102428	2021-09-03
Artificial Mains Network	R&S	ENV216	102333	2021-08-19

Artificial Mains Network	R&S	ENV432	101411	2021-08-19
Impedance Stabilisation Network	R&S	ENY81	100323	2021-08-19
Impedance Stabilisation Network	R&S	ENY81-CA6	101810	2021-08-20
Current Probe	R&S	EZ-17	101247	2021-08-19
Voltage Probe	R&S	ESH2-Z3	100557	2021-08-19
Attenuator	R&S	ESH2Z31	100300	2021-08-19
EMC32 test software	R&S	EMC32(Ver.10.50.01)	N/A	N/A
Radiated Emission				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
3m SAC	ETS	SAC3	CT001632-Q1362	2021-08-23
EMI Test Receiver	R&S	ESR7	102111	2021-01-23
Horn Antenna	R&S	HF907	102706	2021-09-01
Preamplifier	FIT	SCU-18F	180077	2021-08-19
Active magnetic loop antenna	SCHWARZBECK	FMZB1519B	00080	2021-08-19
Trilog-Broadband antenna	SCHWARZBECK	VULB9168	0945	2021-08-19
Switching Controller Interface	R&S	OSP 120	102039	N/A
EMC32 test software	R&S	EMC32(Ver.10.50.01)	N/A	N/A
Radiated Emission				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
10m modified SAC	ETS	SAC10	CT001632-Q1399	31.08.2021
EMI Test Receiver	R&S	ESR7	102022	19.08.2020
EMI Test Receiver	R&S	ESR7	102023	19.08.2020
Bilog Antenna	TESEQ	CBL6112D	51321	29.08.2020
Bilog Antenna	TESEQ	CBL6112D	51322	29.08.2020
Preamplifier	SCHWARZBECK	BBV9745	115	09.10.2020
Preamplifier	EMCI	EMC9135-P	980629	05.01.2020
Preamplifier	FIT	SCU-18F	180076	19.08.2020
Horn Antenna	R&S	HF907	102707	01.09.2020
Switching Controller Interface	R&S	OSP 120	102038	N/A
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 basics 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)	± 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 in 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, 518110, Shenzhen, P. R. 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 Change Tray Volt'H , 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	Wireless Charging Change Tray Volt'H
Type Designation	VOLTHTRAY
Input Voltage	DC 12-20V, 2.5-1.5A via Type C interface
Technical Specification of WPT	
Operating Frequency	120-205KHz
Extreme Temperature Range	5°C - +35°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

According to clause 3.1, all test were applied on model VOLTHTRAY.

4.3 Special Accessories and Auxiliary Equipment

Table 3: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Mobile Phone	Xiaomi	Xiaomi 9	22012/29QZ02339	20W max wireless charging
GaN Fast Charger (3C1A) set	UGREEN	CD224	80766	Input: AC 100-240V, 50/60Hz, 1.8A max Output: DC 5V, 3A or DC 9V, 3A or DC 12V, 3A or DC 15V, 3A or DC 20V, 3.25A (65W 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)

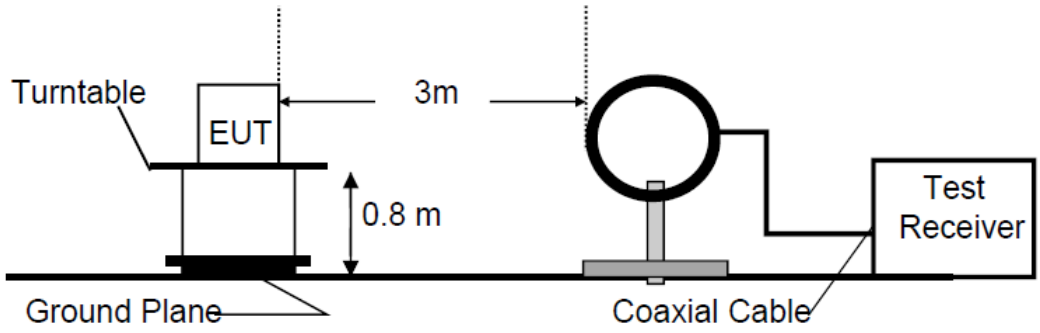


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

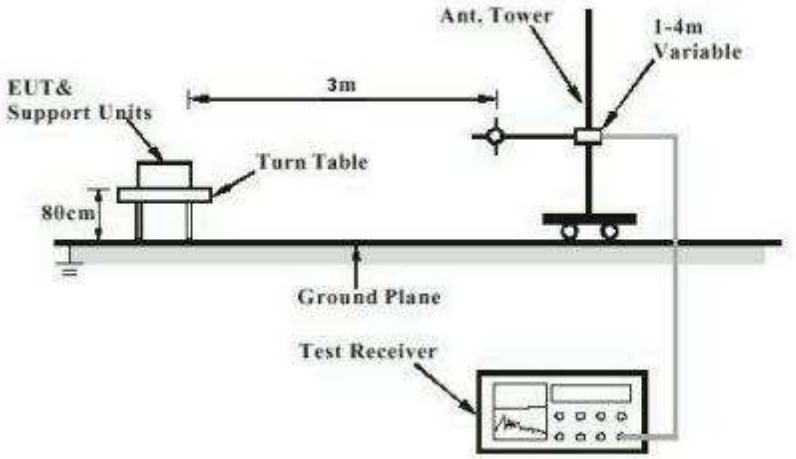


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

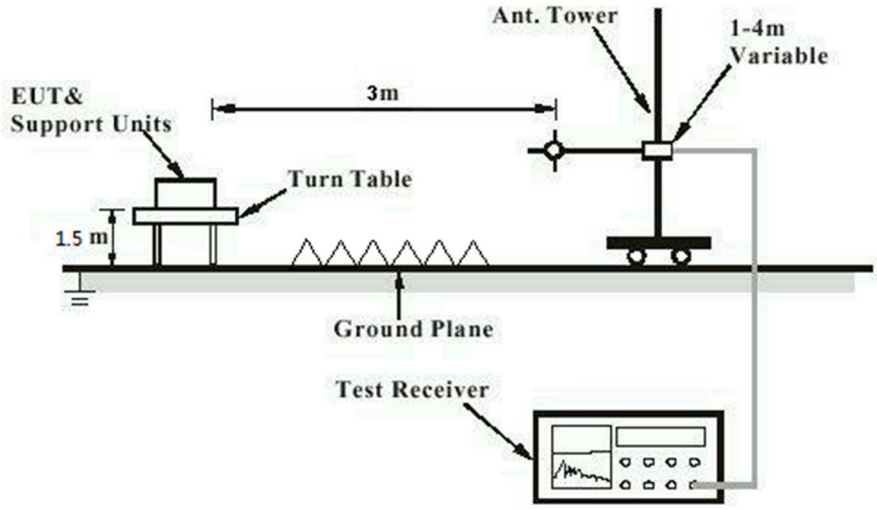
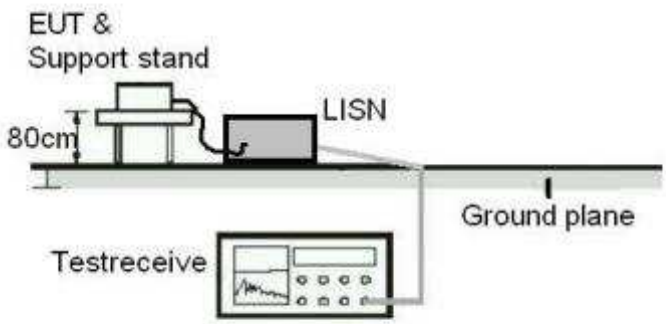


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement



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 6.7

According to the manufacturer declared, 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**

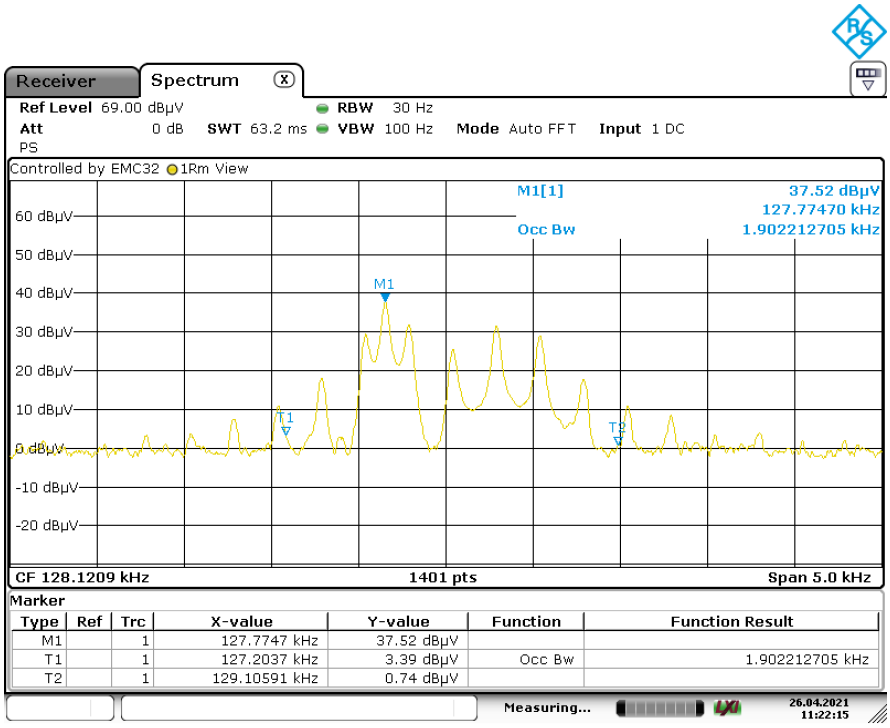
Test Specification

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

Test Setup

Date of testing	:	2021-04-26
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A
Ambient temperature	:	23 ℃
Relative humidity	:	55 %
Atmospheric pressure	:	101 kPa

For details refer to following test result.



Date: 26.APR.2021 11:22:15

5.1.3 20dB Bandwidth

RESULT: **Pass**

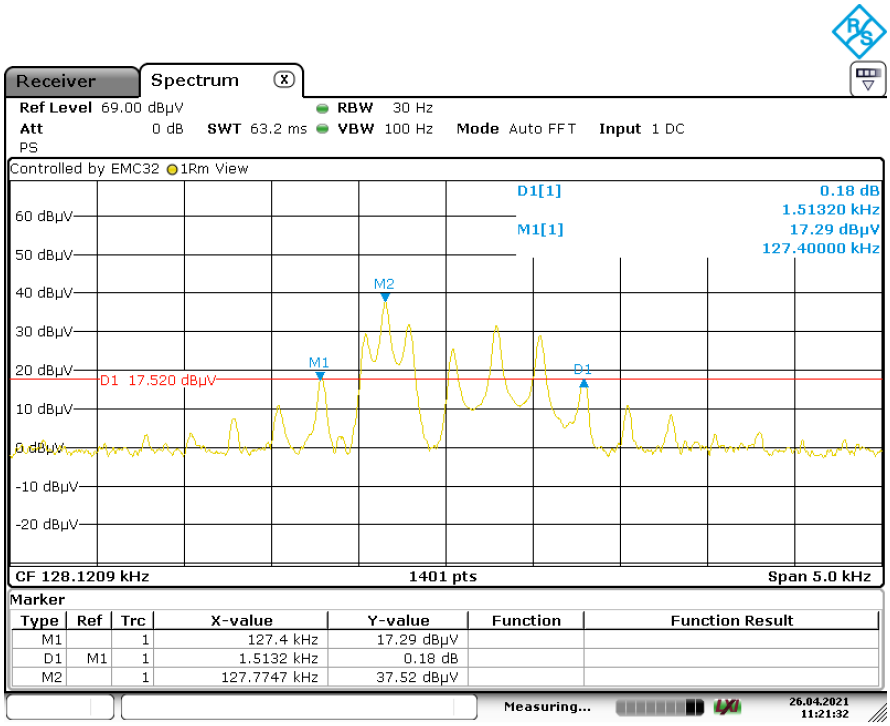
Test Specification

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

Test Setup

Date of testing	:	2021-04-26
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A
Ambient temperature	:	23 ℃
Relative humidity	:	55 %
Atmospheric pressure	:	101 kPa

For details refer to following test result.



Date: 26.APR.2021 11:21:32

5.1.4 Radiated Spurious Emission

RESULT: **Pass**

Test Specification

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

Test Setup

Date of testing	2021-04-26
Input voltage	AC 120V, 60Hz
Operation mode	A
Ambient temperature	23 ℃
Relative humidity	55 %
Atmospheric pressure	101 kPa

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

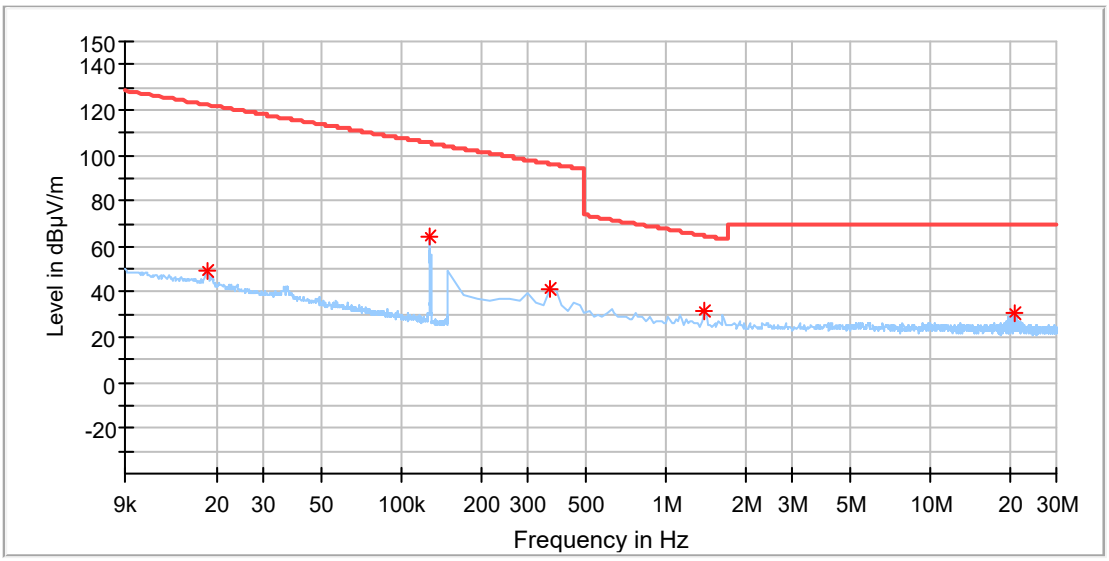
E [dBμA/m] = AF [dBS/m] + V [dBμV] + Cable loss [dB]
E [dBμA/m] is the magnetic field strength (Final Test results)
AF [dBS/m] is the magnetic antenna factor of the antenna (H-field)
V [dBμV] is the reading level on the spectrum analyzer

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

9KHz – 30MHz

EUT Information

EUT Name:	Wireless Charging Change Tray Volt'H
Model:	VOLTHTRAY
Test Mode:	Wireless charging
Test Voltage::	AC 120V/60Hz
Remark:	Temp 23 Humi:55%
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)
0.018266	49.12	122.36	73.24	100.0	X	0.0	20.1
0.127843	63.90	105.46	41.56	100.0	X	0.0	20.1
0.363214	41.09	96.40	55.31	100.0	X	355.0	20.1
1.386643	31.54	64.79	33.25	100.0	X	61.0	20.1
20.959714	30.52	69.50	38.98	100.0	X	233.0	20.6

EUT Information

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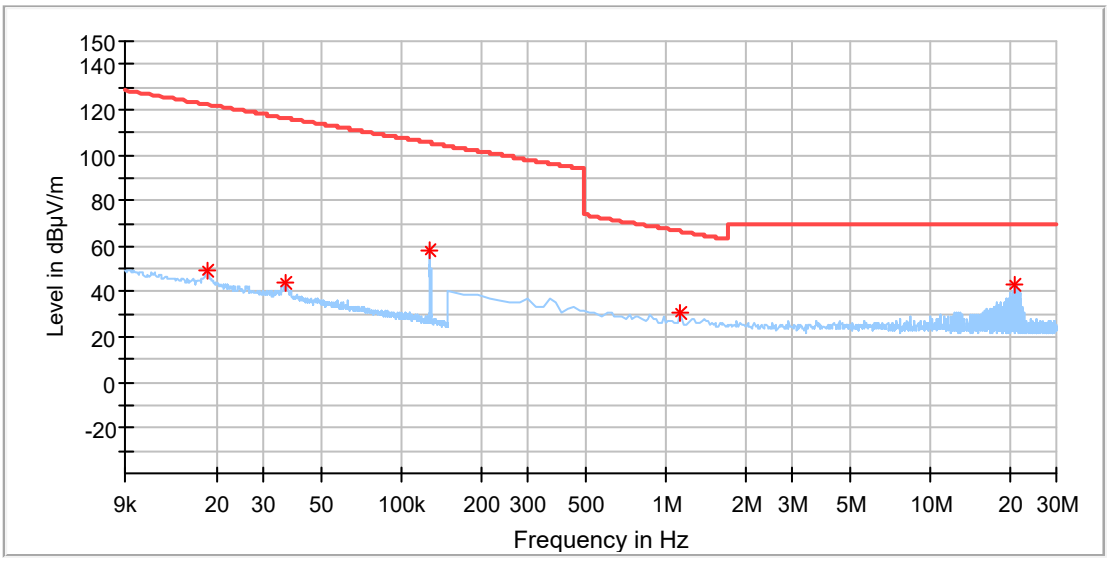

Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.018266	49.56	122.36	72.79	100.0	Y	359.0	20.1
0.036596	44.10	116.32	72.23	100.0	Y	0.0	20.1
0.127843	57.70	105.46	47.76	100.0	Y	282.0	20.1
1.130786	30.68	66.56	35.88	100.0	Y	352.0	20.1
20.959714	42.89	69.50	26.61	100.0	Y	329.0	20.6

EUT Information

EUT Name:	Wireless Charging Change Tray Volt'H
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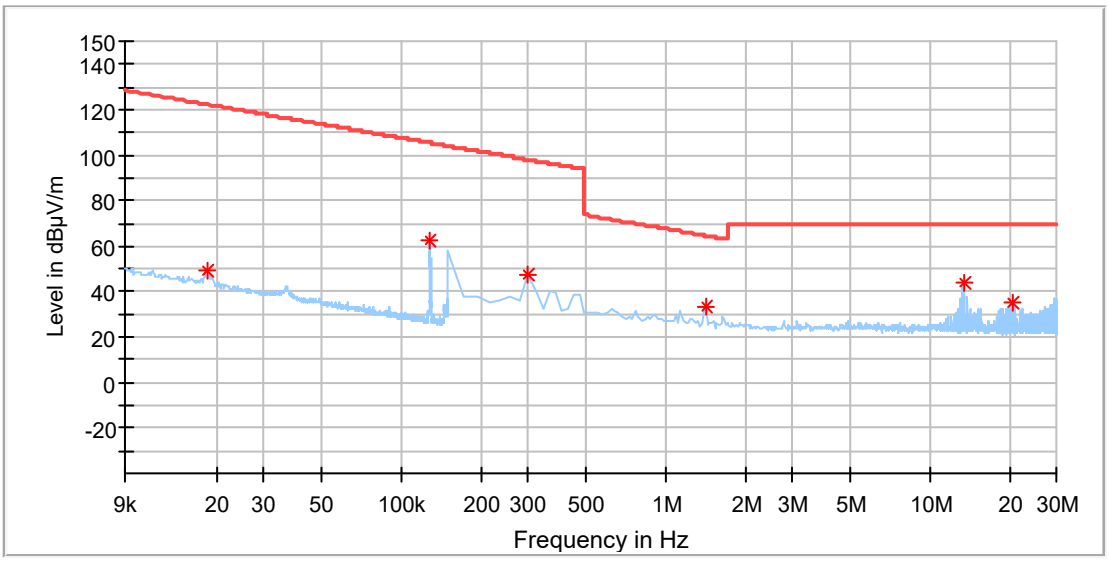
Test Mode:	Wireless charging
Test Voltage::	AC 120V/60Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



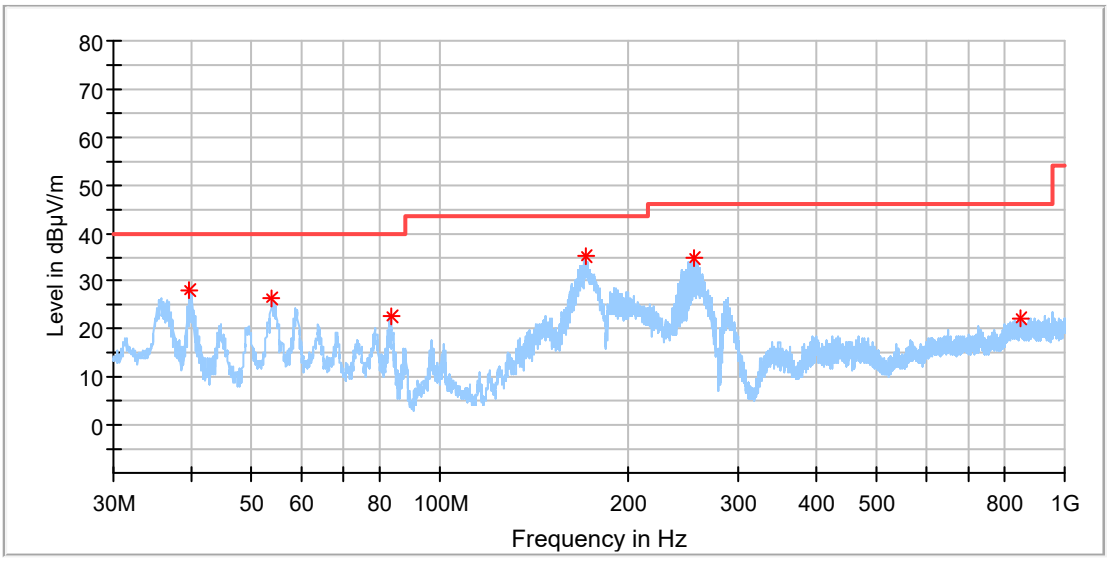
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.018366	49.68	122.31	72.63	100.0	Z	79.0	20.1
0.127843	62.47	105.46	43.00	100.0	Z	331.0	20.1
0.299250	47.41	98.08	50.67	100.0	Z	284.0	20.1
1.407964	33.66	64.66	31.00	100.0	Z	0.0	20.1
13.539857	43.66	69.50	25.84	100.0	Z	137.0	20.5
20.448000	35.42	69.50	34.08	100.0	Z	284.0	20.6

30MHz – 1GHz

EUT Information

EUT Name:	Wireless Charging Change Tray Volt'H
Model:	VOLTHTRAY
Test Mode:	Wireless charging
Test Voltage::	AC 120V/60Hz
Remark:	Temp 23 Humi:55%
Test Standard:	FCC Part 15C, RSS-GEN
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)
39.845500	28.27	40.00	11.73	100.0	H	5.0	-20.5
53.862000	26.40	40.00	13.60	100.0	H	201.0	-18.7
83.544000	22.60	40.00	17.40	100.0	H	201.0	-23.0
171.814000	35.08	43.50	8.42	100.0	H	201.0	-21.5
255.040000	34.64	46.00	11.36	100.0	H	242.0	-17.6
847.564500	22.36	46.00	23.64	100.0	H	294.0	-6.0

EUT Information

EUT Name:	Wireless Charging Change Tray Volt'H
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Test Voltage::	AC 120V/60Hz
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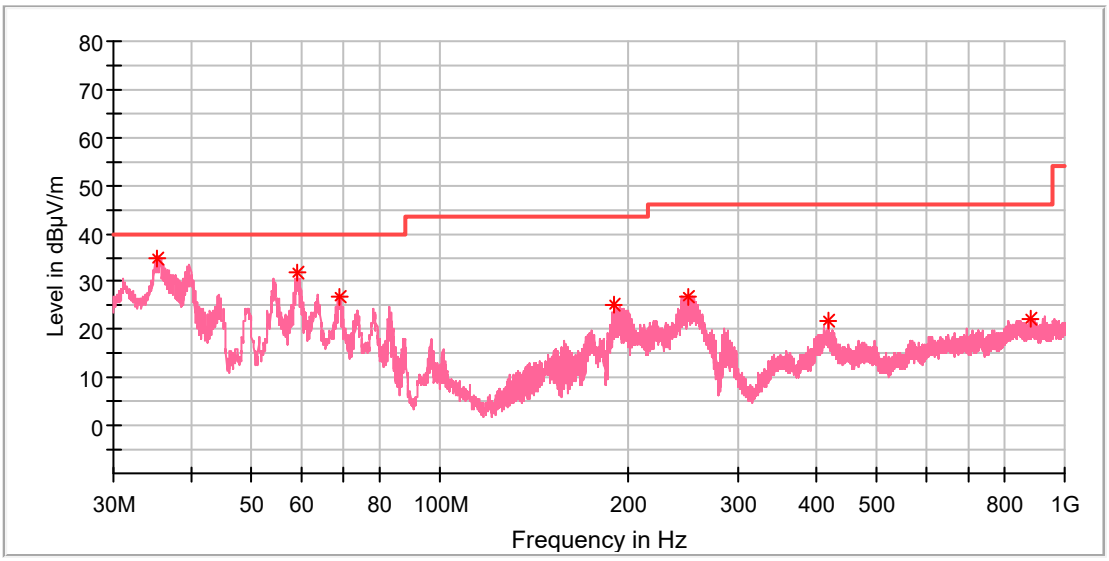


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
35.238000	35.00	40.00	5.00	100.0	V	13.0	-22.1
59.003000	31.87	40.00	8.13	100.0	V	260.0	-19.2
68.848500	27.00	40.00	13.00	100.0	V	328.0	-21.7
190.244000	25.21	43.50	18.29	100.0	V	232.0	-19.9
249.656500	27.05	46.00	18.95	100.0	V	105.0	-17.7
418.242500	21.76	46.00	24.24	100.0	V	13.0	-13.8
880.738500	22.19	46.00	23.81	100.0	V	6.0	-5.6

5.1.5 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

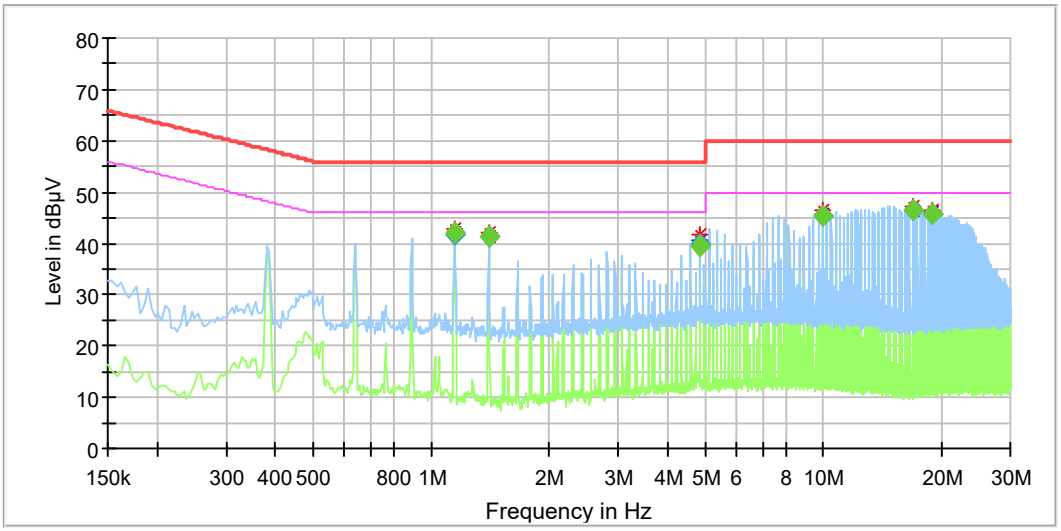
Test Setup

Date of testing	:	2021-04-28
Input voltage	:	AC 120V, 60Hz
Operation mode	:	A
Earthing	:	Not connected
Ambient temperature	:	23 ℃
Relative humidity	:	55 %
Atmospheric pressure	:	101 kPa

Refer to following test plots for details of test result.

EUT Information

EUT Name:	Wireless Charging Change Tray Volt'H
Model:	VOLTHTRAY
Test Mode:	Wireless charging
Test Voltage:	AC 120V/60Hz
Test By:	Shower Dai
Review By:	Gary Chen
Remark:	SR2

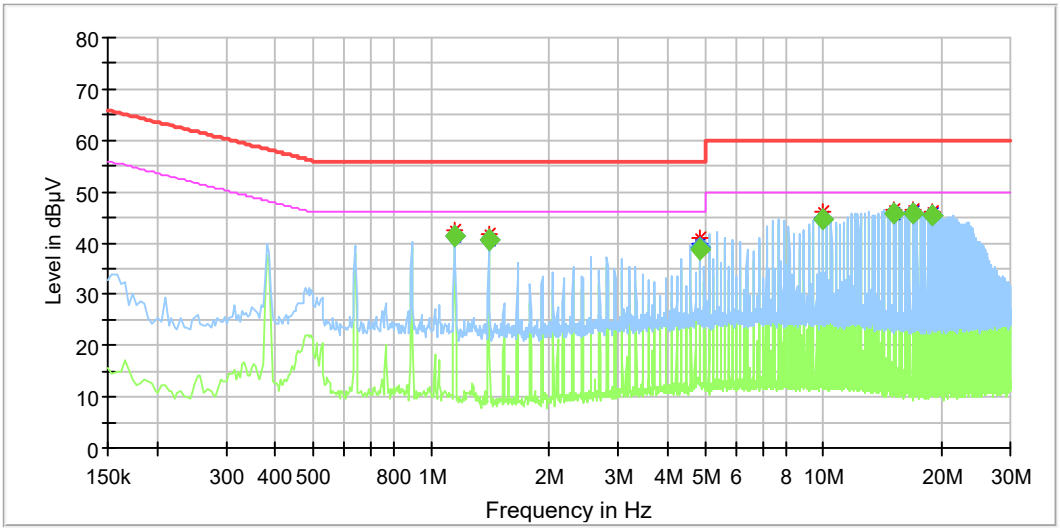


Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
1.149500	---	41.90	46.00	4.10	200.0	9.000	L1	10.1
1.149500	41.85	---	56.00	14.15	200.0	9.000	L1	10.1
1.405500	---	41.25	46.00	4.75	200.0	9.000	L1	10.1
1.405500	41.19	---	56.00	14.81	200.0	9.000	L1	10.1
4.853500	---	39.33	46.00	6.67	200.0	9.000	L1	10.2
4.853500	39.85	---	56.00	16.15	200.0	9.000	L1	10.2
9.965500	45.53	---	60.00	14.47	200.0	9.000	L1	10.3
9.965500	---	45.33	50.00	4.67	200.0	9.000	L1	10.3
16.865500	46.37	---	60.00	13.63	200.0	9.000	L1	10.4
16.865500	---	46.43	50.00	3.57	200.0	9.000	L1	10.4
18.909500	---	45.68	50.00	4.32	200.0	9.000	L1	10.4
18.909500	45.62	---	60.00	14.38	200.0	9.000	L1	10.4

EUT Information

EUT Name:	Wireless Charging Change Tray Volt'H
Model:	VOLTHTRAY
Test Mode:	Wireless charging
Test Voltage:	AC 120V/60Hz
Test By:	Shower Dai
Review By:	Gary Chen
Remark:	SR2



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
1.149500	---	41.38	46.00	4.62	200.0	9.000	N	9.8
1.149500	41.34	---	56.00	14.66	200.0	9.000	N	9.8
1.405500	---	40.69	46.00	5.31	200.0	9.000	N	9.8
1.405500	40.63	---	56.00	15.37	200.0	9.000	N	9.8
4.853500	---	38.59	46.00	7.41	200.0	9.000	N	9.9
4.853500	39.20	---	56.00	16.80	200.0	9.000	N	9.9
9.965500	---	44.66	50.00	5.34	200.0	9.000	N	10.0
9.965500	44.73	---	60.00	15.27	200.0	9.000	N	10.0
15.077500	45.86	---	60.00	14.14	200.0	9.000	N	10.1
15.077500	---	45.92	50.00	4.08	200.0	9.000	N	10.1
16.865500	45.85	---	60.00	14.15	200.0	9.000	N	10.2
16.865500	---	45.91	50.00	4.09	200.0	9.000	N	10.2
18.909500	---	45.38	50.00	4.62	200.0	9.000	N	10.2
18.909500	45.33	---	60.00	14.67	200.0	9.000	N	10.2

6 Photographs of the Test Set-Up

Refer to test photo document.

7 List of Tables

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