



Prüfbericht-Nr.: <i>Test report no.:</i>	CN21I0JJ 001	Auftrags-Nr.: <i>Order no.:</i>	168316381	Seite 1 von 29 <i>Page 1 of 29</i>	
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2021-04-25		
Auftraggeber: <i>Client:</i>	iDeal of Sweden AB Gamla Rådstugugatan 33, Norrköping, Ostergötland 60224, Sweden				
Prüfgegenstand: <i>Test item:</i>	Wireless Charger				
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	IDCOMQIrxyy-zzz (r stands for A to Z or blank, x stands for A to Z or blank, yy stands for 00 to 99 or blank, zzz stands for 0 to 999) (Trademark: IDEAL OF SWEDEN)				
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>	2021-05-11	Refer to photos document			
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003040188-006, 007				
Prüfzeitraum: <i>Testing period:</i>	2021-05-27 – 2021-06-01				
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>	2021-08-05		Ausstellungsdatum: <i>Issue date:</i>	2021-08-05	
	<small>Signed by: Alex Lan</small>			<small>Signed by: Winnie Hou</small>	
Stellung / Position	Senior Project Engineer		Stellung / Position	Department Manager	
Sonstiges / Other:	FCC ID: 2AZEK-IDCOMQI Factory: ShenZhen Sunlike technology co., Ltd. Address: Building 3, Shi'ao 2nd Industrial one, Dalang Street, LongHua District, Shenzhen City, Guangdong Province, China 518109				
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

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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

None

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	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
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	2024-06-22

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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-Lindgren	SAC3	CT001632-Q1362	2021-08-23
EMI Test Receiver	R&S	ESR7	102111	2021-12-16
Trilog-Broadband antenna	SCHWARZBECK	VULB9168	0945	2022-12-12
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A
RF Exposure				
H-Field Probe 100 cm2 SENSOR	narda	D-0010	BN 2300/90.10	2022-05-20
MAGNETIC FIELD HiTESTER ELT-400	narda	D-0009	BN 2304/03	2022-05-20

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)	± 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
Radiated Emission (10m SAC)	Level accuracy (30MHz to 1000MHz)	± 4.66 dB	± 6.3 dB
	Level accuracy (above 1000MHz)	± 4.35 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, 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 devices are Wireless Charger, which supports wireless charging function.

All models are identical except for the model name, pattern and the color of enclosure.

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	IDCOMQIrxyy-zzz (r stands for A to Z or blank, x stands for A to Z or blank, yy stands for 00 to 99 or blank, zzz stands for 0 to 999)
FCC ID	2AZEK-IDCOMQI
Trade Mark	IDEAL OF SWEDEN
Input Voltage	DC 5V, 2A or DC 9V, 1.67A via external AC/DC Adapter
Test Voltage	AC 120V, 60Hz
Technical Specification of WPT	
Operating Frequency	110-205KHz
Extreme Temperature Range	-20°C - +45°C
Modulation	FSK
Antenna Type	Induction coil
Antenna Gain	0 dBi
Wireless output	10W 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 IDCOMQI-01.

4.3 Special Accessories and Auxiliary Equipment

Table 3: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	Rating or S/N
Mobile Phone	HUAWEI	HUAWEI P30 Pro	HVQ0119220000186
AC/DC Adapter	HUAWEI	HW-100400C01	Input: AC 100-240V, 50/60Hz, 1.2A Output: DC 5V, 2A or DC 9V, 2A or DC 10, 4A

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)

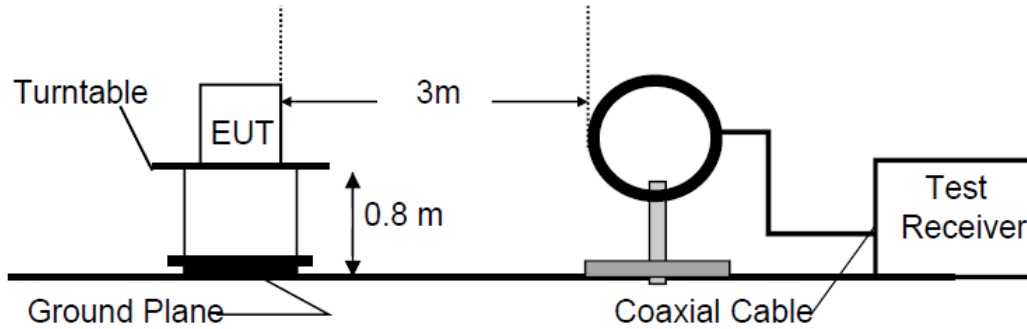


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

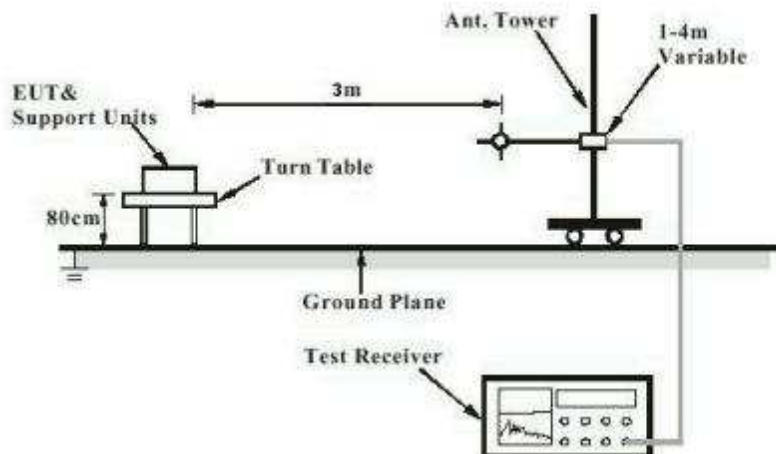
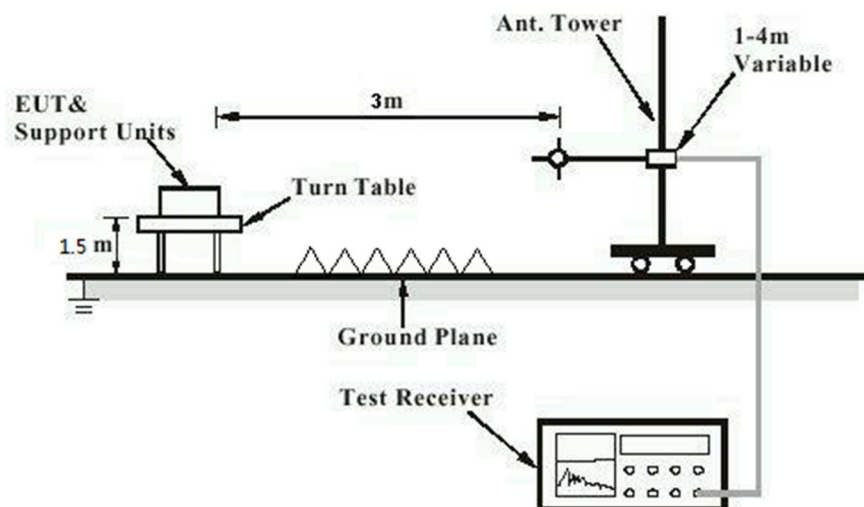


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



A

Diagram of Measurement Configuration for Conducted Transmitter Measurement

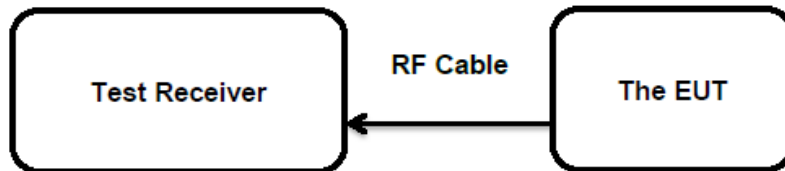
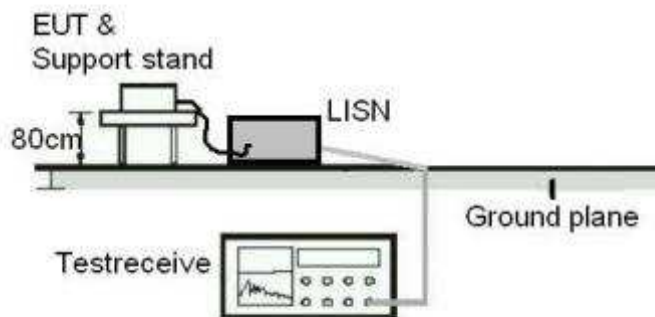


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement



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

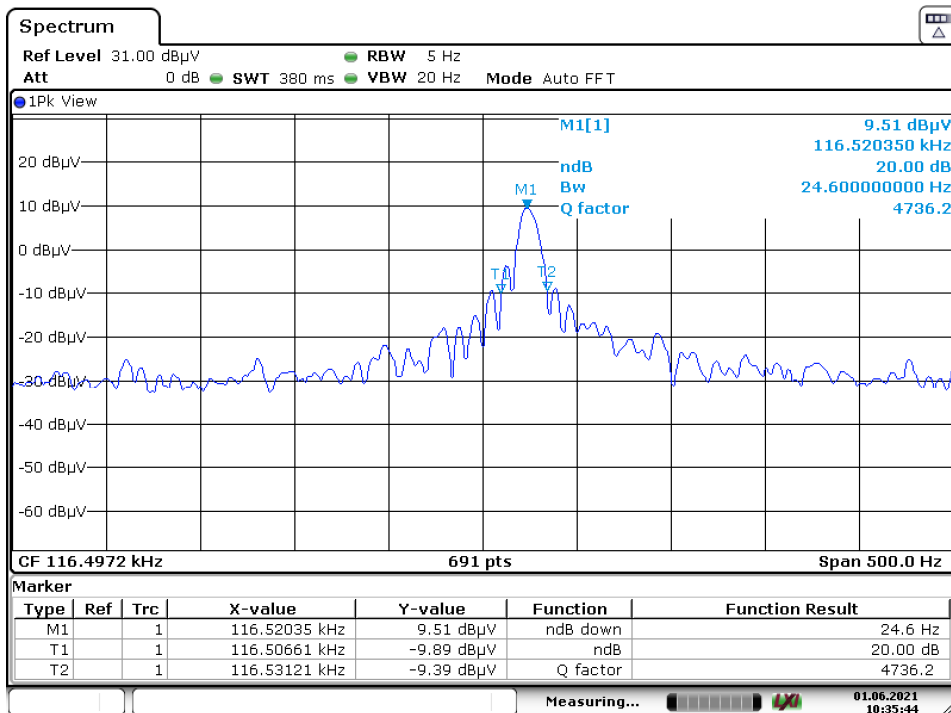
Test Specification

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

Test Setup

Date of testing : 01.06.2021
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: 1.JUN.2021 10:35:44

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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

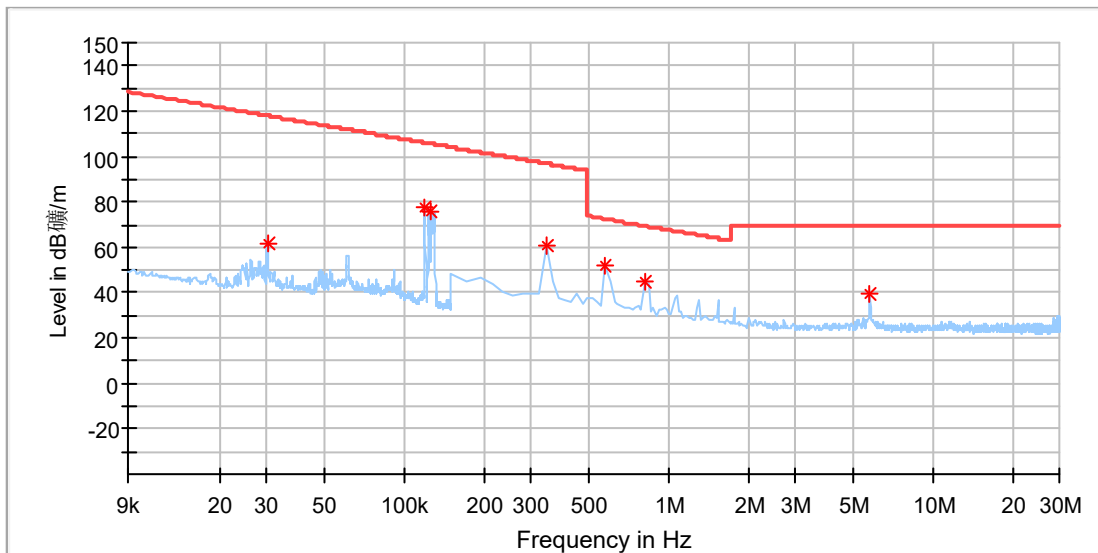
Test Setup

Date of testing : 31.05.2021
Input voltage : AC 120V, 60Hz
Operation mode : A
Ambient temperature : 24 °C
Relative humidity : 47 %
Atmospheric pressure : 101 kPa

For details refer to following test result.

EUT Information

EUT Name: Wireless charger
 Model: IDCOMQI-01
 Test Mode: Charging
 Test Voltage: AC 120V, 60Hz
 Remark: Temp 24 Humi:47%
 Test Standard: FCC Part 15C
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

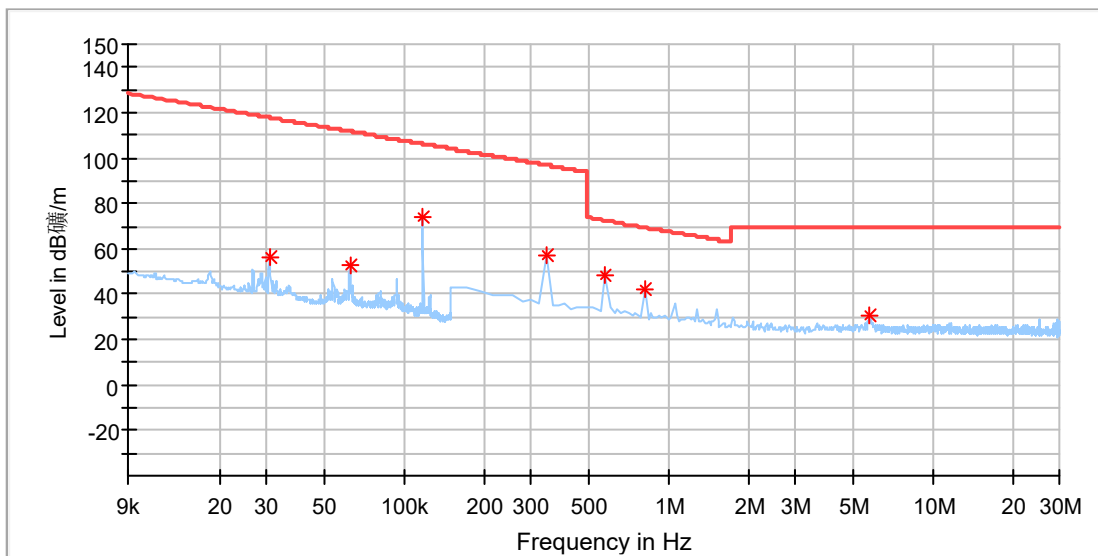


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.030351	61.20	117.95	56.75	100.0	X	284.0	20.1
0.118678	77.88	106.11	28.23	100.0	X	139.0	20.1
0.125426	75.40	105.63	30.23	100.0	X	332.0	20.1
0.341893	60.34	96.92	36.59	100.0	X	309.0	20.1
0.576429	51.67	72.39	20.72	100.0	X	309.0	20.1
0.810964	45.03	69.44	24.41	100.0	X	286.0	20.1
5.757536	39.27	69.50	30.23	100.0	X	71.0	20.3

EUT Information

EUT Name: Wireless charger
 Model: IDCOMQI-01
 Test Mode: Charging
 Test Voltage:: AC 120V, 60Hz
 Remark: Temp 24 Humi:47%
 Test Standard: FCC Part 15C
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

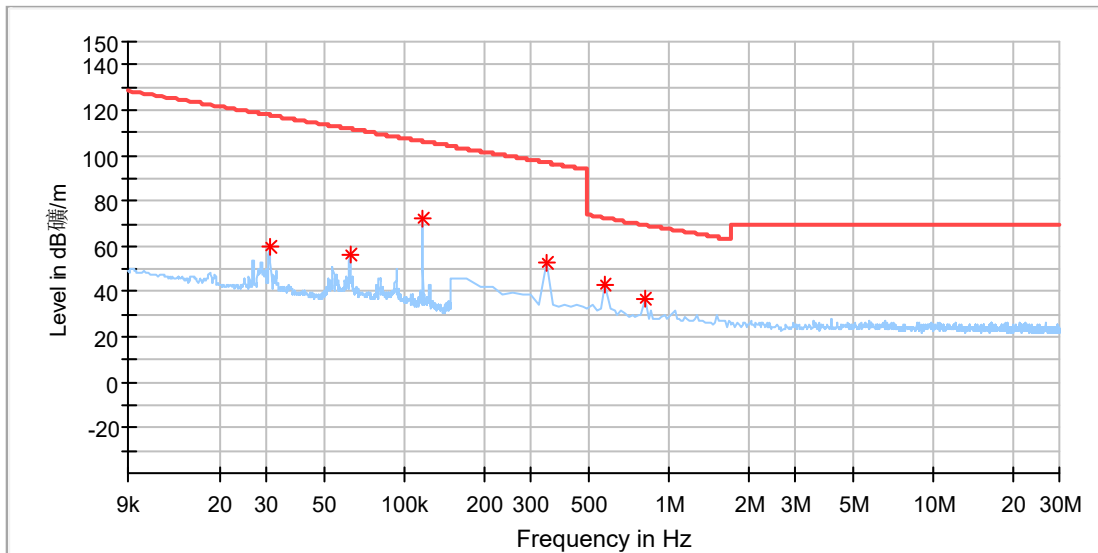


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.030855	56.12	117.80	61.68	100.0	Y	335.0	20.1
0.062076	52.77	111.74	58.97	100.0	Y	335.0	20.1
0.117570	74.33	106.19	31.86	100.0	Y	45.0	20.1
0.341893	57.22	96.92	39.70	100.0	Y	50.0	20.1
0.576429	48.16	72.39	24.23	100.0	Y	50.0	20.1
0.810964	42.04	69.44	27.39	100.0	Y	25.0	20.1
5.736214	30.79	69.50	38.71	100.0	Y	260.0	20.3

EUT Information

EUT Name: Wireless charger
 Model: IDCOMQI-01
 Test Mode: Charging
 Test Voltage: AC 120V, 60Hz
 Remark: Temp 24 Humi:47%
 Test Standard: FCC Part 15C
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

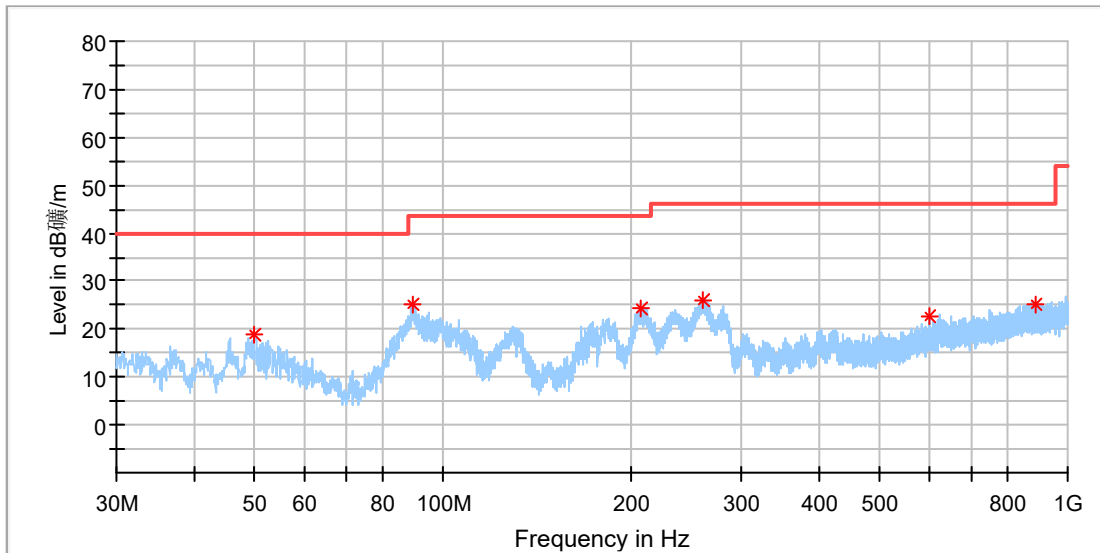
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.030956	60.02	117.78	57.76	100.0	Z	264.0	20.1
0.061976	56.23	111.75	55.52	100.0	Z	264.0	20.1
0.117570	72.60	106.19	33.59	100.0	Z	96.0	20.1
0.341893	52.51	96.92	44.42	100.0	Z	312.0	20.1
0.576429	43.46	72.39	28.94	100.0	Z	287.0	20.1
0.810964	36.58	69.44	32.86	100.0	Z	97.0	20.1

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EUT Information

EUT Name: Wireless charger
 Model: IDCOMQI-01
 Test Mode: Charging
 Test Voltage: AC 120V, 60Hz
 Remark: Temp 24 Humi:47%
 Test Standard: FCC Part 15C
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

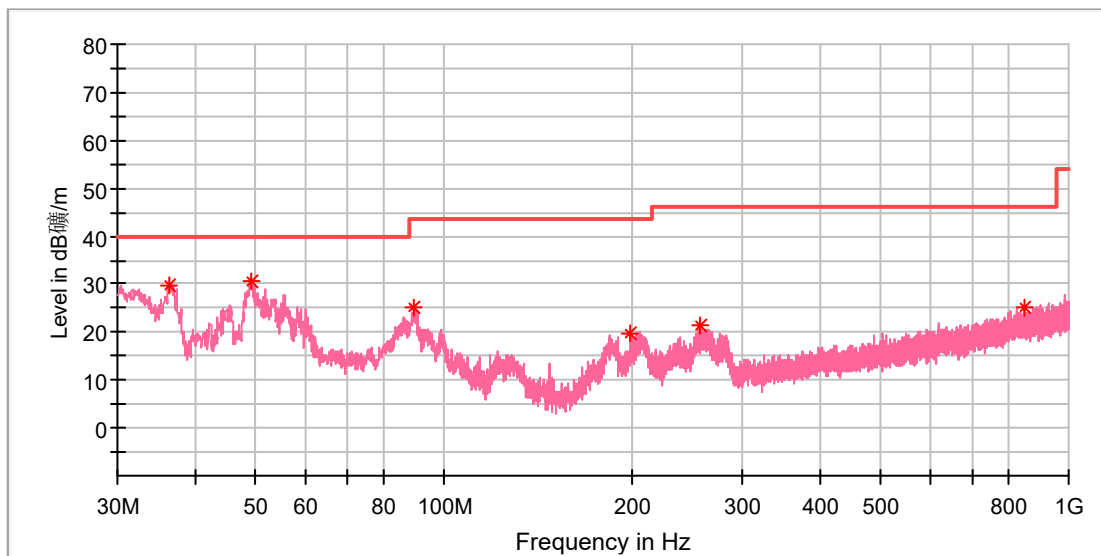


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.982000	19.06	40.00	20.94	100.0	H	224.0	-18.3
89.655000	24.97	43.50	18.53	100.0	H	183.0	-21.1
207.558500	24.37	43.50	19.13	100.0	H	321.0	-18.9
260.617500	26.11	46.00	19.89	100.0	H	265.0	-17.1
601.718000	22.61	46.00	23.39	100.0	H	336.0	-9.8
891.505500	25.16	46.00	20.84	100.0	H	201.0	-5.1

EUT Information

EUT Name: Wireless charger
 Model: IDCOMQI-01
 Test Mode: Charging
 Test Voltage:: AC 120V, 60Hz
 Remark: Temp 24 Humi:47%
 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)
36.450500	29.97	40.00	10.03	100.0	V	194.0	-21.4
49.060500	30.42	40.00	9.58	100.0	V	302.0	-18.3
89.461000	25.15	43.50	18.35	100.0	V	1.0	-21.1
199.265000	19.81	43.50	23.69	100.0	V	286.0	-19.0
256.301000	21.19	46.00	24.81	100.0	V	312.0	-17.1
849.650000	25.33	46.00	20.67	100.0	V	180.0	-5.5

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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 : 27.05.2021
Input voltage : AC 120V/60Hz
Operation mode : B
Earthing : Not connected
Ambient temperature : 22 °C
Relative humidity : 55 %
Atmospheric pressure : 101 kPa

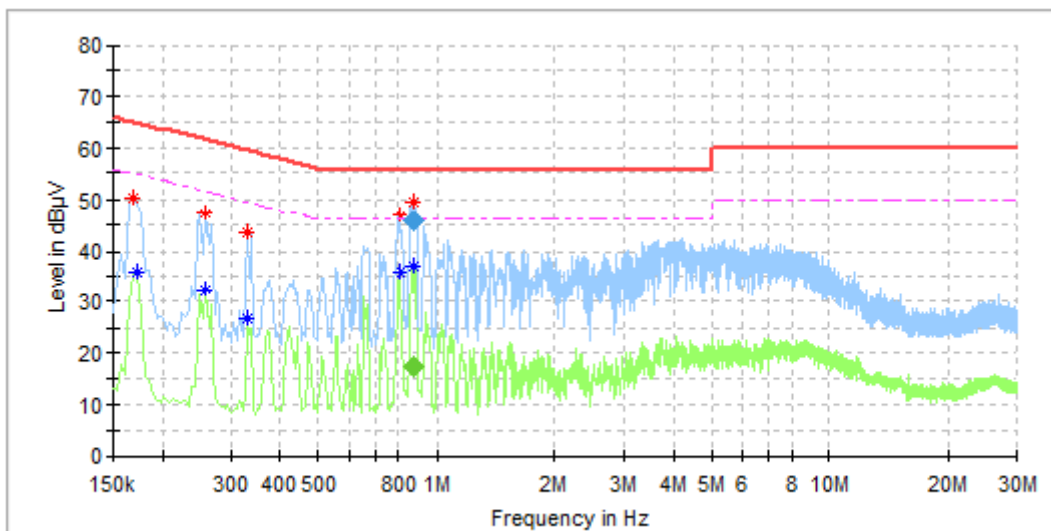
For the measurement records, refer to the appendix C.

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EUT Information

EUT Name: Wireless charger
Model: IDCOMQI-01
Test Model: Charging
Test Voltage: AC 120V, 60Hz
Test By: Kevin Zhou
Review By: Gary Chen
Remark: SR2



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.170000	50.21	---	64.96	14.75	L1	9.9
0.174000	---	35.54	54.77	19.23	L1	9.9
0.258000	47.20	---	61.50	14.29	L1	9.9
0.258000	---	32.55	51.50	18.94	L1	9.9
0.330000	---	26.91	49.45	22.54	L1	9.9
0.330000	43.70	---	59.45	15.75	L1	9.9
0.814000	46.70	---	56.00	9.30	L1	10.0
0.814000	---	35.60	46.00	10.40	L1	10.0
0.874500	---	36.98	46.00	9.02	L1	10.0
0.881500	49.40	---	56.00	6.60	L1	10.0

Final_Result

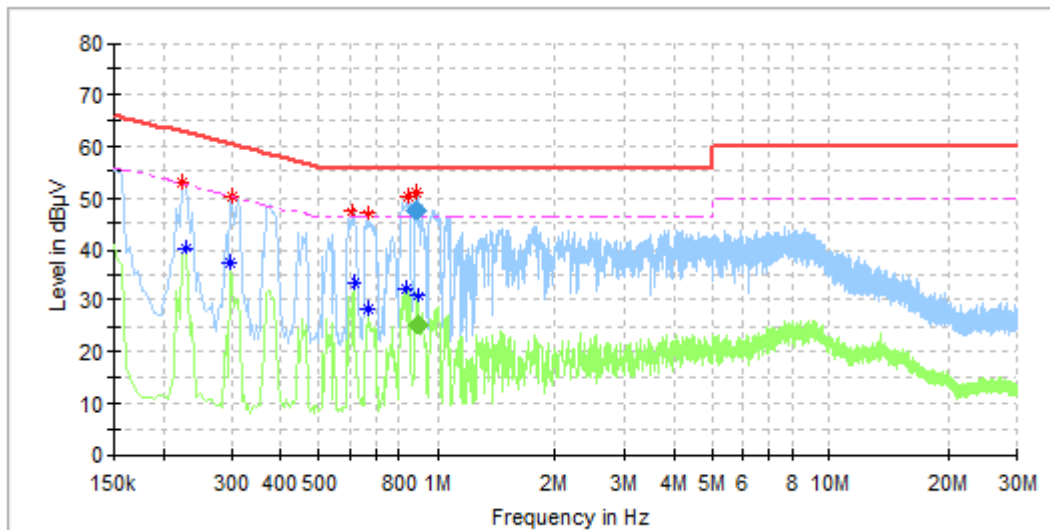
Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.874500	---	17.55	46.00	28.45	200.0	9.000	L1	10.0
0.881500	45.66	---	56.00	10.34	200.0	9.000	L1	10.0

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EUT Information

EUT Name: Wireless charger
Model: IDCOMQI-01
Test Model: Charging
Test Voltage: AC 120V, 60Hz
Test By: Kevin Zhou
Review By: Gary Chen
Remark: SR2



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.226000	52.77	---	62.60	9.83	N	9.8
0.230000	---	40.25	52.45	12.20	N	9.8
0.298000	---	37.12	50.30	13.18	N	9.8
0.302000	50.34	---	60.19	9.85	N	9.8
0.606000	47.11	---	56.00	8.89	N	9.8
0.618000	---	33.38	46.00	12.62	N	9.8
0.666000	---	28.16	46.00	17.84	N	9.8
0.666000	46.99	---	56.00	9.01	N	9.8
0.842000	---	32.36	46.00	13.64	N	9.8
0.850000	50.10	---	56.00	5.90	N	9.8
0.889500	50.95	---	56.00	5.05	N	9.8
0.898500	---	31.00	46.00	15.00	N	9.8

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.889500	47.71	---	56.00	8.29	200.0	9.000	N	9.8
0.898500	---	25.20	46.00	20.80	200.0	9.000	N	9.8

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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 : 3m Semi-anechoic Chamber

Test Setup

Date of testing : 27.05.2021
Input voltage : AC 120V, 60Hz
Operation mode : B
Earthing : Not Connected
Ambient temperature : 24.5 °C
Relative humidity : 59 %
Atmospheric pressure : 101 kPa

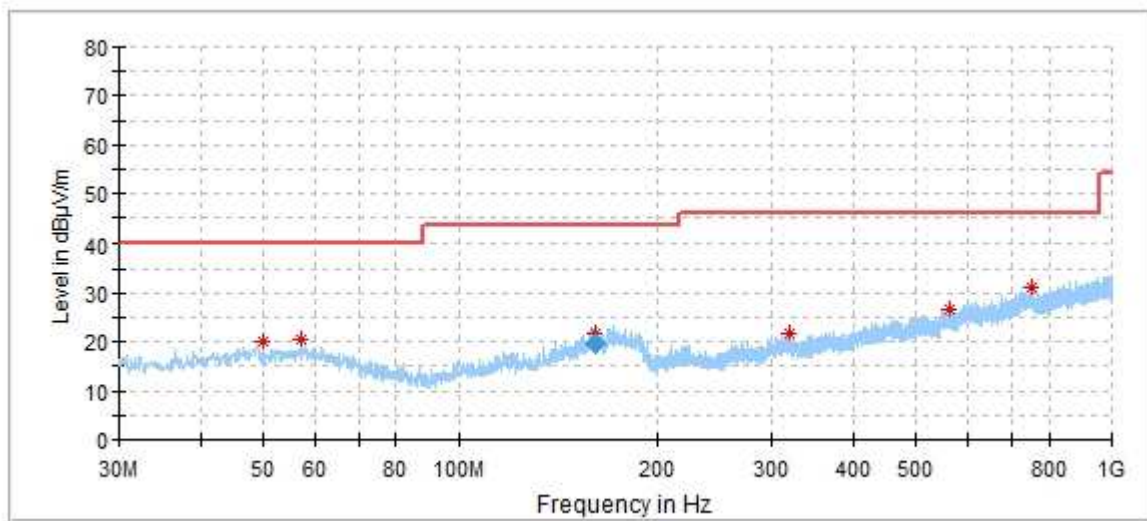
Remark:*- The highest frequency of internal sources of EUT is less than 108MHz, the measurement shall only be made up to 1GHz.

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EUT Information

EUT Name: Wireless charger
 Model: IDCOMQI-01
 Test Mode: Charging
 Test Voltage: AC 120V, 60Hz
 Test By: Kevin Zhou
 Review By: Gary Chen
 Remark: 3m Chamber



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.982000	20.29	40.00	19.71	100.0	H	289.0	20.7
57.063000	20.36	40.00	19.64	100.0	H	55.0	21.3
161.164000	21.78	43.50	21.72	137.0	H	48.0	21.6
319.157000	21.60	46.00	24.40	100.0	H	122.0	21.9
564.470000	26.67	46.00	19.33	200.0	H	187.0	26.4
753.814000	31.31	46.00	14.69	100.0	H	281.0	30.3

Final_Result

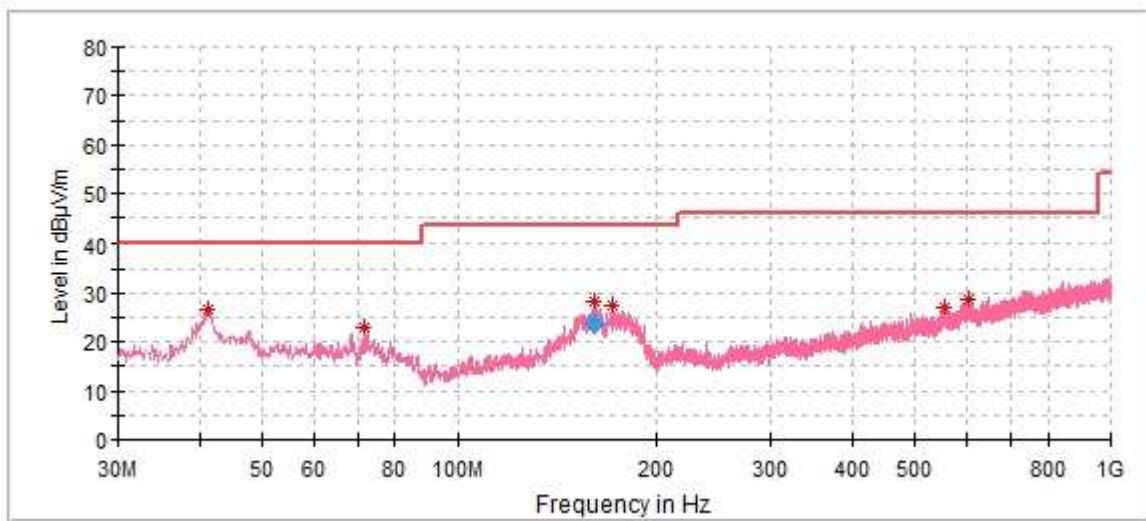
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
161.164000	19.88	43.50	23.62	1000.0	120.000	137.0	H	48.0	21.6

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EUT Information

EUT Name: Wireless charger
 Model: IDCOMQI-01
 Test Mode: Charging
 Test Voltage: AC 120V, 60Hz
 Test By: Kevin Zhou
 Review By: Gary Chen
 Remark: 3m Chamber



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.349000	26.77	40.00	13.23	100.0	V	300.0	19.9
71.710000	22.81	40.00	17.19	200.0	V	265.0	17.8
161.221000	28.34	43.50	15.16	100.0	V	99.0	21.6
171.814000	27.50	43.50	16.00	100.0	V	165.0	21.3
556.128000	27.19	46.00	18.81	100.0	V	342.0	26.6
602.979000	28.63	46.00	17.37	100.0	V	272.0	28.0

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)
161.221000	23.84	43.50	19.66	1000.0	120.000	100.0	V	99.0	21.6

6 Safety Human Exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:

Pass

Test Specification

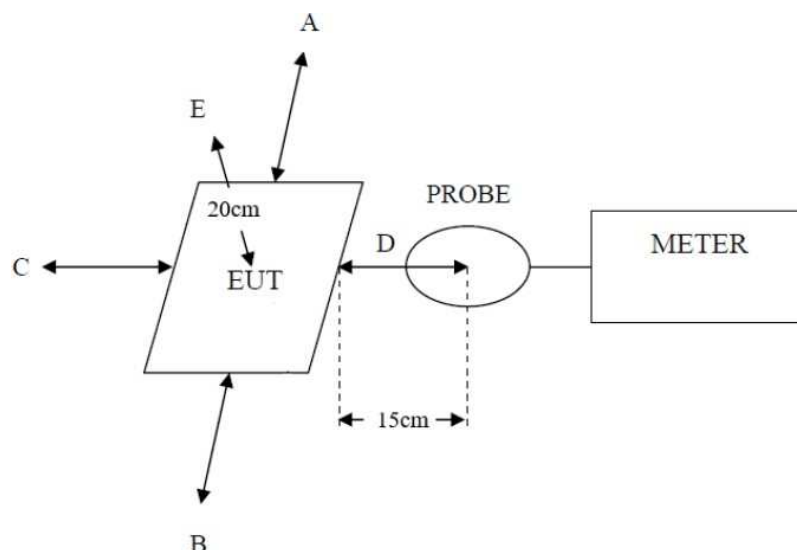
Test standard : CFR47 FCC Part 2: Subpart J Section 1.1310
FCC CFR 47 Part 1(1.1310) KDB 680106 D01 v03

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:



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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	0.1816	0.1928	0.1784	0.1800	0.1888	0.815	1.63	Pass

7 Photographs of the Test Set-Up

Refer to test setup photos document.

8 List of Tables

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9 List of Photographs

None.