

Test Report

Applicant: Dong Guan Ya Li Electric Appliance Co., Ltd.

Address: THE FIVE STREET JINQIANLING JITIGANG HUANGJIANG TOWN,
DONGGUAN CITY, GUANGDONG 523000 CHINA

FCC ID: 2AZRWYL-889FI

Product: Wireless Charger

Brand: YALI

Test model(s): YL-889

Series model(s): N/A

Test Date: Apr. 23, 2021~ Apr. 27, 2021

Issued By: Hwa-Hsing (Dongguan) Testing Co., Ltd.

Lab Address: No.101, Bld N1, Yuyuan 2Rd, Yuyuan Industrial Park, HuangJiang
Town, Dongguan, China

FCC Designation No.: CN1255

Standards: FCC Part 15, Subpart C
ANSI C63.10-2013

The above equipment has been tested by **Hwa-Hsing (Dongguan) Testing Co., Ltd.**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :



Tank Tan/ Project Engineer

Date: Apr. 28, 2021

Approved by :



Harry Li/ Technical Director

Date: Apr. 29, 2021

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Release Control Record

Issue No.	Description	Date Issued
210423VL03-FR	Original release.	Apr. 29, 2021

1 Summary of Test Results

FCC Part 15, Subpart C			
ANSI C63.10-2013			
Clause	Test Item	Result/Remarks	Verdict
§15.203	Antenna Requirement	No antenna connector is used.	Pass
§15.207	AC Power Conducted Emission	Meet the requirement of limit.	N/A
§15.209	Radiated Emission	Meet the requirement of limit.	Pass
§15.215 (c)	20dB Bandwidth	Meet the requirement of limit.	Pass

Note: There is no deviation to the applied test methods and requirements covered by the scope of this report

1.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT

The listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.66 dB
Radiated Emissions 9KHz ~ 30MHz	9KHz ~ 30MHz	2.49 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	3.47 dB
Radiated Emissions above 1 GHz	Above 1GHz	4.84 dB

1.2 Modification Record

There were no modifications required for compliance.

2 General Information

2.1 General Description of EUT

Product Name	Wireless Charger
Brand	YALI
FCC ID	2AZRWYL-889FI
Test Model	YL-889
Series Models	N/A
Power Supply Rating	Input: DC 5V 2A Output: DC 5V 1A
Modulation type	ASK
Operating frequency	110kHz~180kHz
Antenna type	Coil Antenna

1. For a more detailed features description, please refer to the manufacturer's specification or the User's Manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
3. Please refer to the EUT photo document (Reference No.: 210423VL03) for detailed product photo.

2.2 Operating Modes of EUT

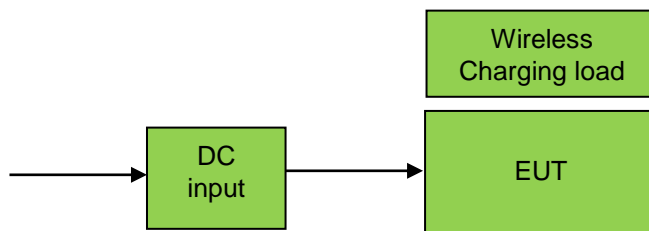
The EUT was tested under the following modes the final worst mode was marked in boldface and recorded in this report.

Test frequency	Test mode	Test voltage
110~130kHz	wireless charging + Transmitting	DC 5V
160~180kHz	Standby + Transmitting	

3 Configuration and Connections with EUT

3.1 Connection Diagram of EUT and Peripheral Devices

Configuration:



3.2 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	USB Dummy load	N/A	N/A	N/A	N/A	N/A

Note:

1. All power cords of the above support units are non-shielded (1.5m).
2. Items E~G acted as communication partners to transfer data.

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC Line	1	1.2	No	N/A	

4 Radiated Emissions up to 1 GHz

4.1 Limits of radiated emissions

FCC Part 15, Subpart C, Section 15.209

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
4. The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

4.2 Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver (10kHz~7GHz)	Rohde&Schwarz	ESCI 7	100962	2021/05/20
Loop Antenna 9kHz~30MHz	TESEQ	HLA 6121	56735	2022/04/15
Broadband antenna (25MHz~2500MHz)	Schwarzbeck	VULB 9168	00937	2021/10/19
Signal Amplifier (30MHz~1000MHz)	Com-power	PAM-103	18020051	2022/03/15
3m Semi-anechoic Chamber	MAORUI	9m*6m*6m	NSEMC003	2022/04/15
Attenuator	R&S	TS2GA-6dB	18101101	2022/03/15
Test software	EZ	EZ EMC V1.1.4.2	N/A	N/A

- Note: 1. The calibration interval of the above test instruments is 12/24 months and the calibrations are traceable to CEPREI/CHINA.
 2. The test was performed in Chamber 1.

4.3 Test Procedure

Below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meters Semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

30MHz~1GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
3. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
4. Margin value = Emission level – Limit value.

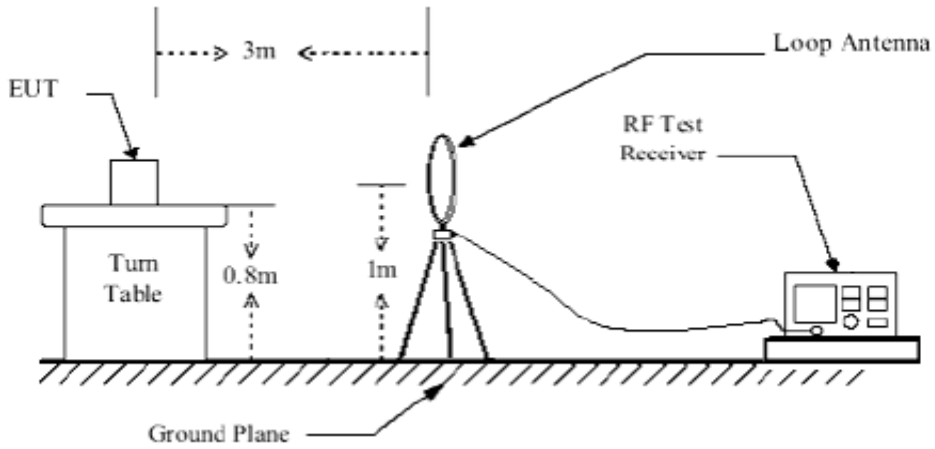
4.4 Deviation from test standard

No deviation.

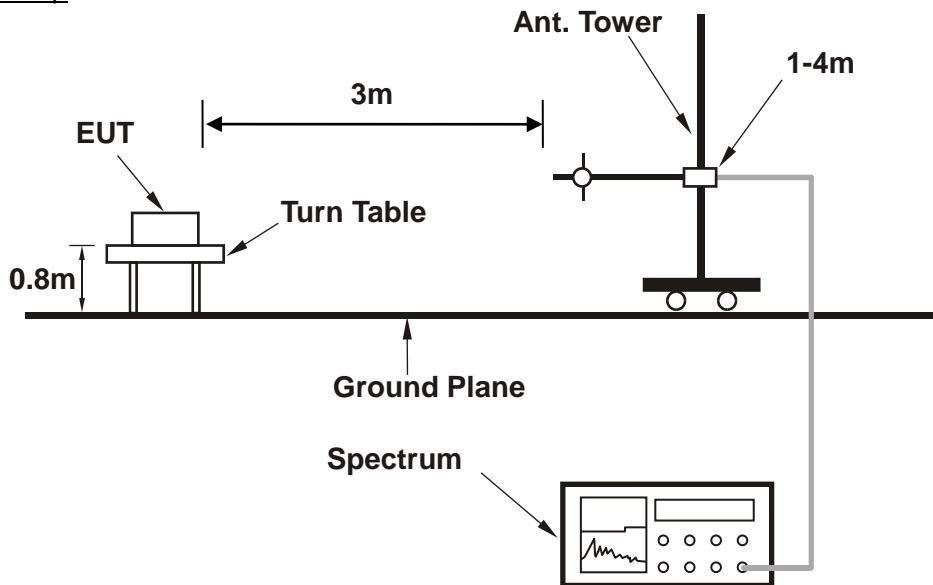


4.5 Test Setup

Below 30MHz test setup



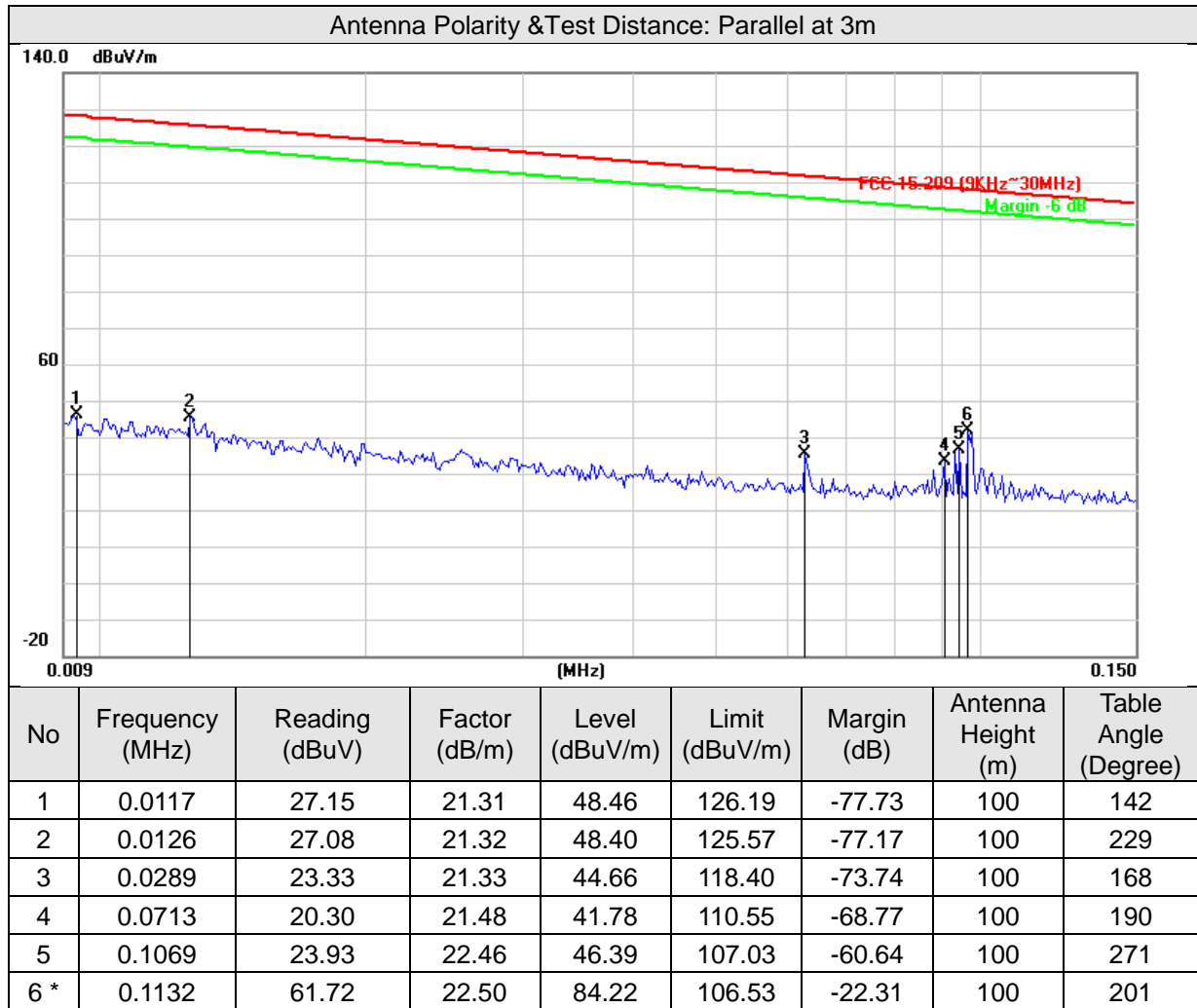
Below 1GHz test setup



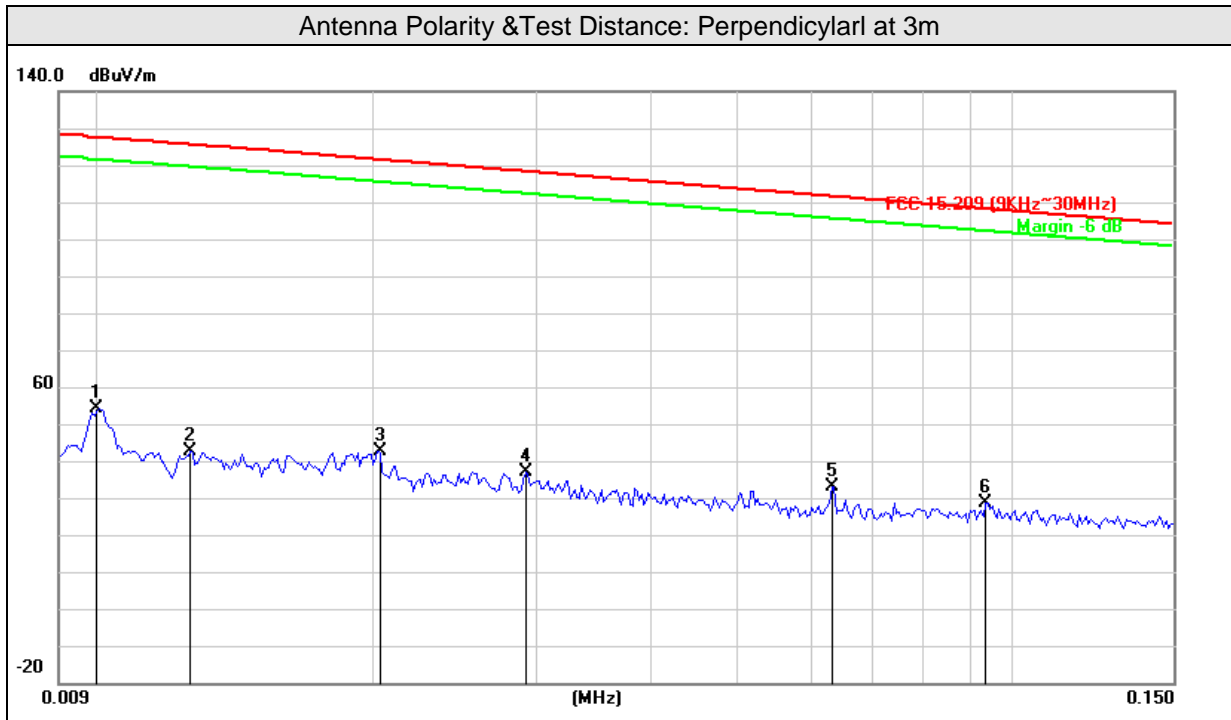
Note: For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.6 Test Results

Test mode	Standby		
Frequency Range	9kHz ~150kHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 120kHz
Input Voltage	DC5V	Environmental Conditions	23°C, 62%RH
Tested by	Tank Tan	Test Date	2021/04/25



- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 0.009-0.15MHz.
 4. Only emissions significantly above equipment noise floor are reported.

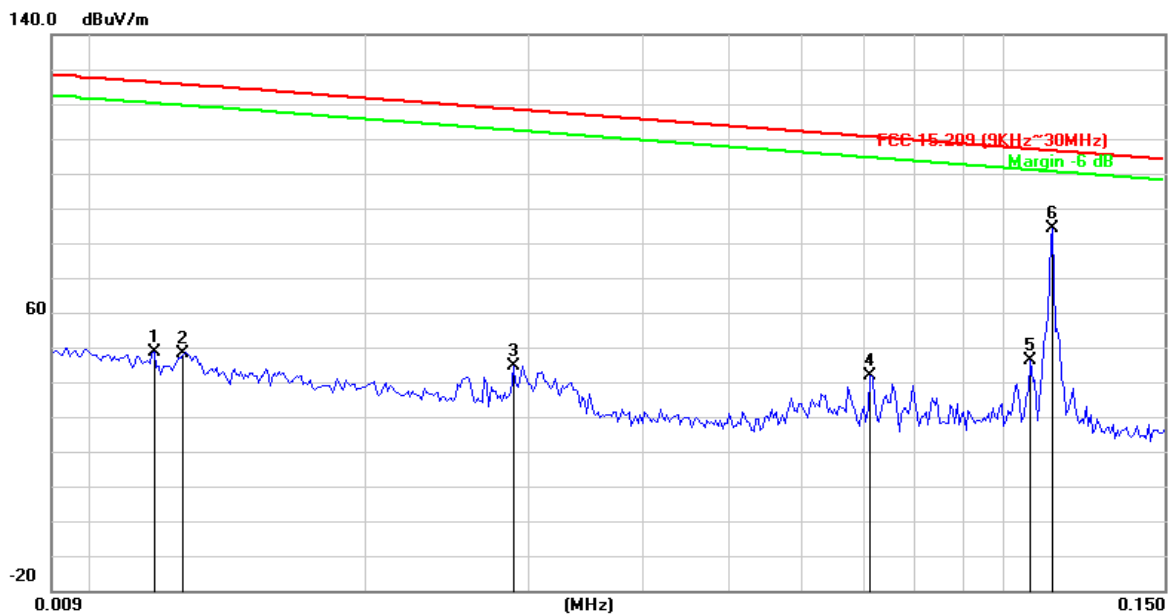


No	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)
1 *	0.0100	32.80	21.31	54.11	127.54	-73.43	100	157
2	0.0126	21.18	21.32	42.50	125.57	-83.07	100	140
3	0.0202	21.33	21.34	42.67	121.54	-78.87	100	308
4	0.0292	15.80	21.33	37.13	118.31	-81.18	100	296
5	0.0633	11.59	21.42	33.01	111.58	-78.57	100	185
6	0.0933	6.58	22.19	28.77	108.21	-79.44	100	213

- Remarks:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 0.009-0.15MHz.
 4. Only emissions significantly above equipment noise floor are reported.

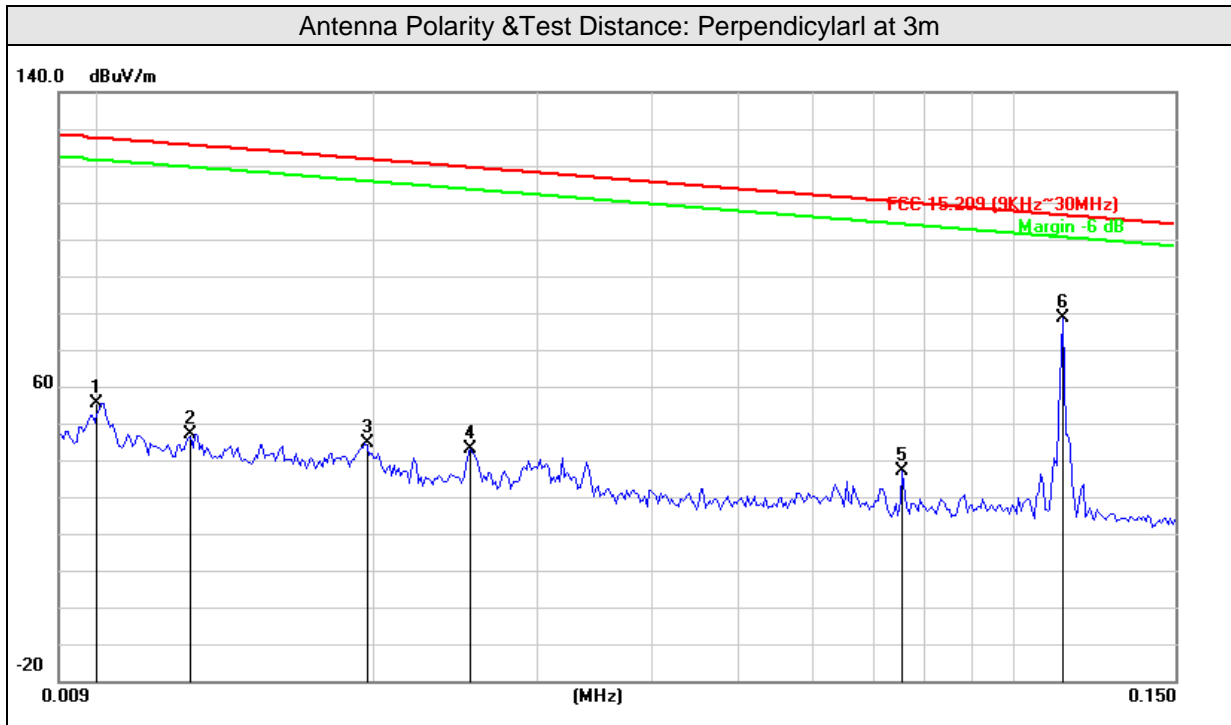
Test mode	Wireless charging mode		
Frequency Range	9kHz ~150kHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 120kHz
Input Voltage	DC5V	Environmental Conditions	23°C, 62%RH
Tested by	Tank Tan	Test Date	2021/04/25

Antenna Polarity & Test Distance: Parallel at 3m



No	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)
1	0.0117	27.15	21.31	48.46	126.19	-77.73	100	142
2	0.0126	27.08	21.32	48.40	125.57	-77.17	100	229
3	0.0289	23.33	21.33	44.66	118.40	-73.74	100	168
4	0.0713	20.30	21.48	41.78	110.55	-68.77	100	190
5	0.1069	23.93	22.46	46.39	107.03	-60.64	100	271
6 *	0.1132	61.72	22.50	84.22	106.53	-22.31	100	201

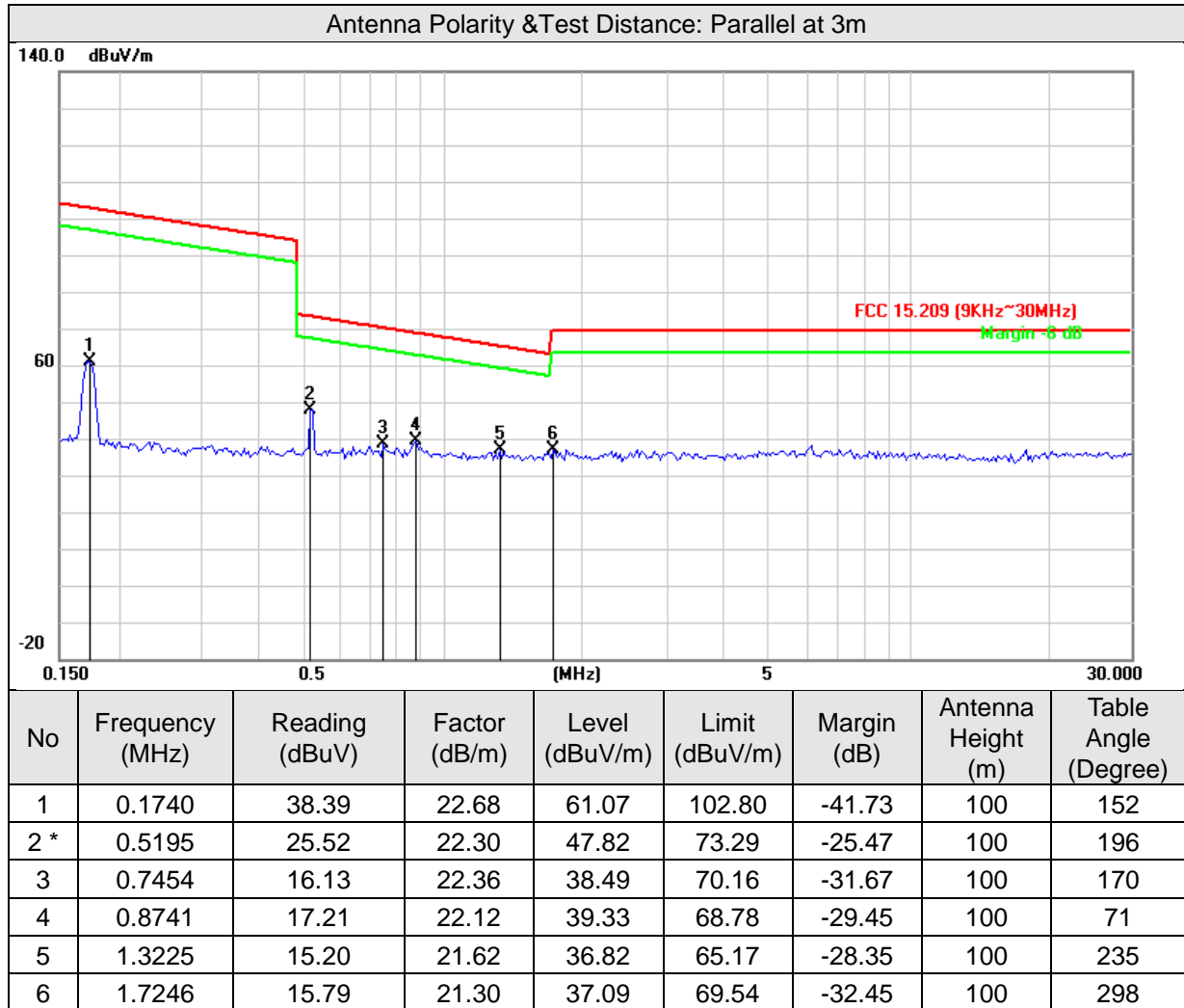
- Remarks:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 0.009-0.15MHz.
 4. Only emissions significantly above equipment noise floor are reported.



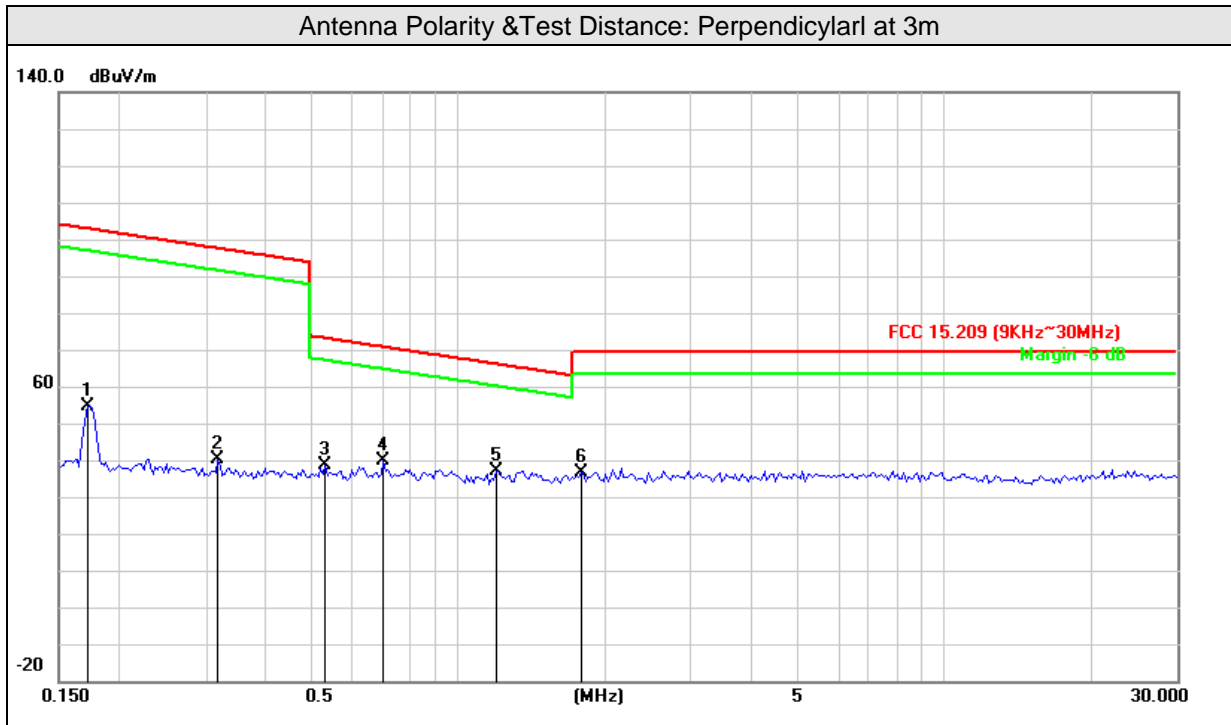
No	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)
1	0.0100	34.04	21.31	55.35	127.54	-72.19	100	170
2	0.0126	25.75	21.32	47.07	125.57	-78.50	100	132
3	0.0195	23.10	21.33	44.43	121.83	-77.40	100	65
4	0.0253	21.52	21.33	42.85	119.56	-76.71	100	230
5	0.0754	15.33	21.53	36.86	110.06	-73.20	100	352
6 *	0.1132	56.30	22.50	78.80	106.53	-27.73	100	191

- Remarks:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 0.009-0.15MHz.
 4. Only emissions significantly above equipment noise floor are reported.

Test mode	Standby mode		
Frequency Range	150kHz ~30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 120kHz
Input voltage	DC5V	Environmental Conditions	23°C, 62%RH
Tested by	Tank Tan	Test Date	2021/04/25



- Remarks:**
1. Peak detector quick scan is shown on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 0.15-30 MHz.
 4. Only emissions significantly above equipment noise floor are reported.



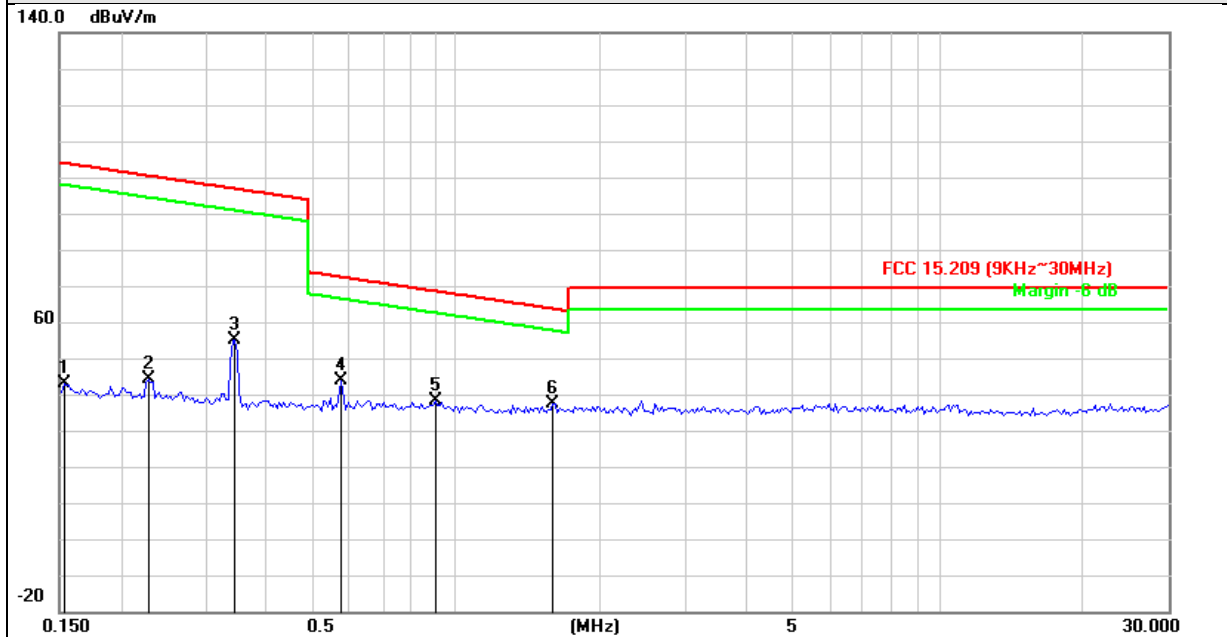
No	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)
1	0.1722	32.09	22.68	54.77	102.89	-48.12	100	190
2	0.3188	17.78	22.50	40.28	97.53	-57.25	100	219
3	0.5307	16.36	22.29	38.65	73.11	-34.46	100	181
4	0.6994	17.26	22.35	39.61	70.71	-31.10	100	136
5 *	1.1892	15.30	21.72	37.02	66.10	-29.08	100	254
6	1.7804	15.27	21.25	36.52	69.54	-33.02	100	108

Remarks:

1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
2. Negative sign (-) in the margin column signify levels below the limit.
3. Frequency range scanned: 0.15-30 MHz.
4. Only emissions significantly above equipment noise floor are reported.

Test mode	Wireless charging mode		
FrequencyRange	150kHz ~30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 120kHz
Input voltage	DC5V	Environmental Conditions	23°C, 62%RH
Tested by	Tank Tan	Test Date	2021/04/25

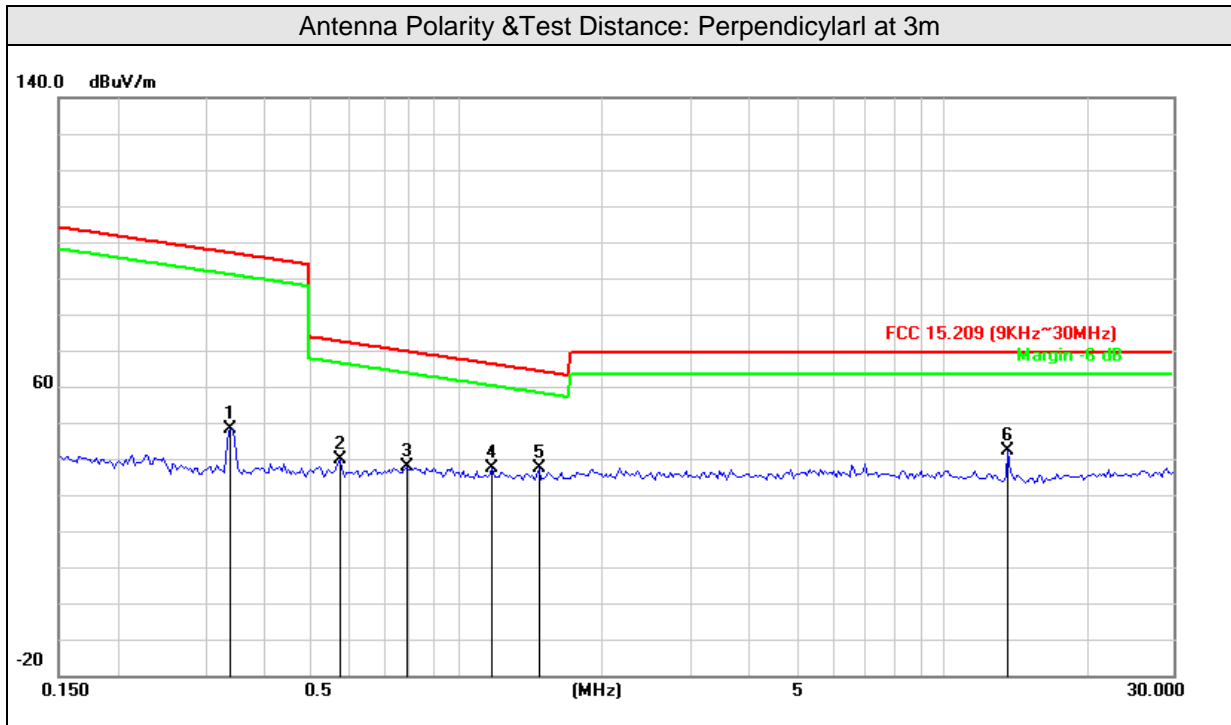
Antenna Polarity & Test Distance: Parallel at 3m



No	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)
1	0.1532	20.13	22.70	42.83	103.90	-61.07	100	135
2	0.2294	21.42	22.61	44.03	100.39	-56.36	100	136
3	0.3470	32.47	22.47	54.94	96.80	-41.86	100	108
4	0.5777	21.59	22.31	43.90	72.37	-28.47	100	257
5	0.9024	16.15	22.06	38.21	68.50	-30.29	100	219
6 *	1.5840	15.83	21.41	37.24	63.61	-26.37	100	43

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level - Limit value



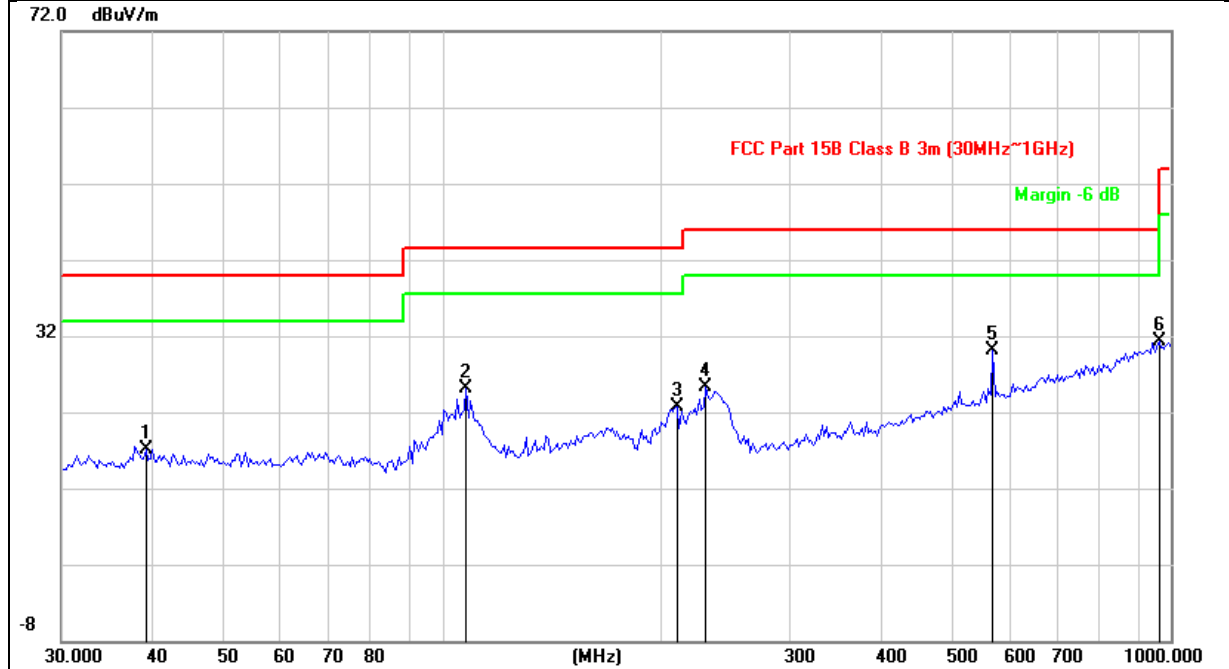
No	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)
1	0.3398	25.87	22.48	48.35	96.98	-48.63	100	218
2	0.5716	17.44	22.31	39.75	72.47	-32.72	100	172
3	0.7861	15.37	22.29	37.66	69.70	-32.04	100	82
4	1.1767	15.79	21.73	37.52	66.19	-28.67	100	134
5	1.4707	15.96	21.50	37.46	64.25	-26.79	100	205
6 *	13.6737	23.33	18.78	42.11	69.54	-27.43	100	327

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level - Limit value

Test mode	Standby mode		
Frequency Range	30MHz ~1GHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 120kHz
Input voltage	DC5V	Environmental Conditions	23°C, 62%RH
Tested by	Tank Tan	Test Date	2021/04/25

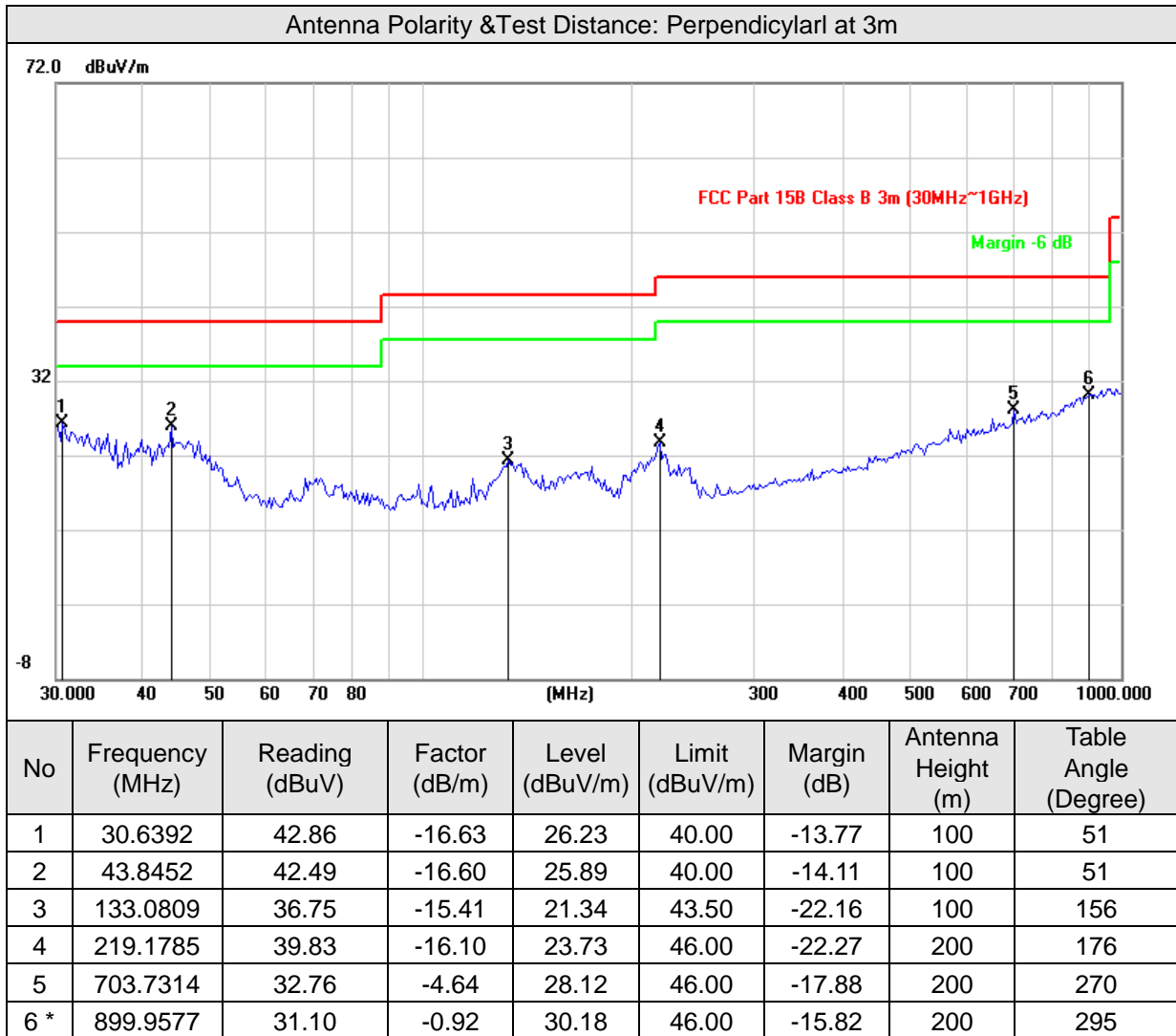
Antenna Polarity & Test Distance: Parallel at 3m



No	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)
1	39.1824	33.70	-16.57	17.13	40.00	-22.87	300	174
2	107.7853	42.22	-17.05	25.17	43.50	-18.33	300	278
3	210.1294	39.04	-16.39	22.65	43.50	-20.85	100	310
4	230.2295	41.11	-15.77	25.34	46.00	-20.66	200	279
5	569.9687	37.72	-7.59	30.13	46.00	-15.87	200	355
6 *	965.4741	31.48	-0.13	31.35	54.00	-22.65	200	100

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value

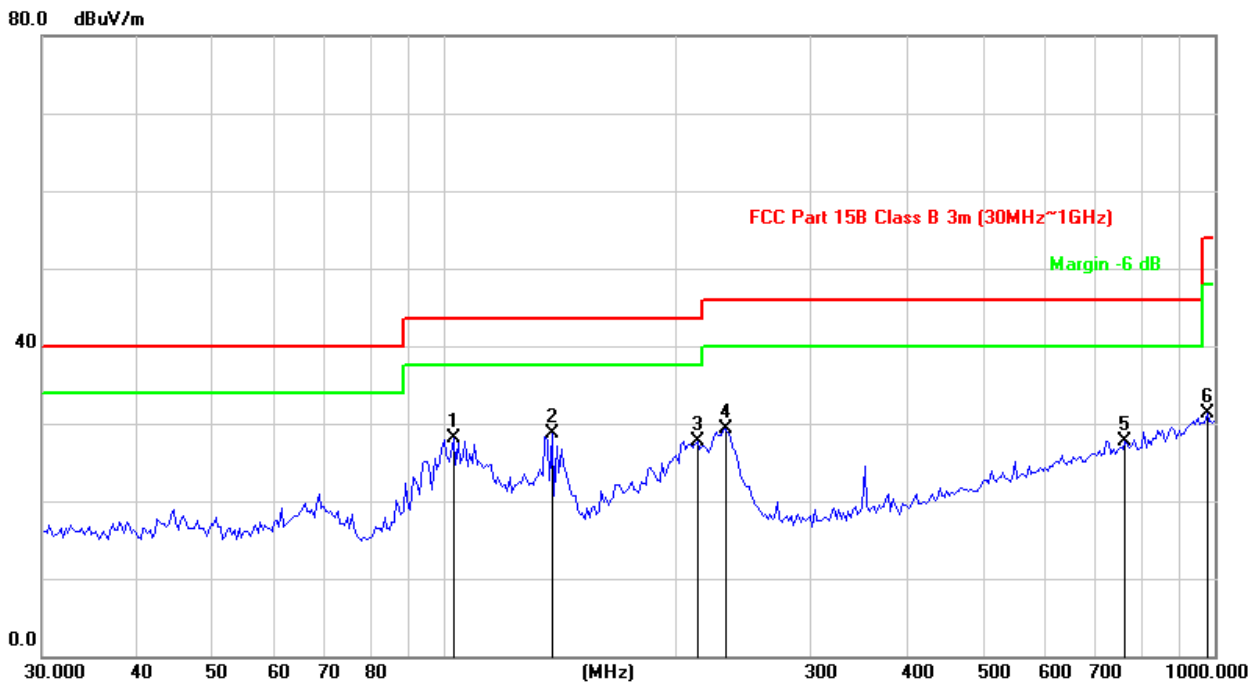


Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value

Test mode	Wireless charging mode		
Frequency Range	30MHz ~ 1GHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 120kHz
Input voltage	DC5V	Environmental Conditions	23°C, 62%RH
Tested by	Tank Tan	Test Date	2021/04/25

Antenna Polarity & Test Distance : Horizontal at 3 m

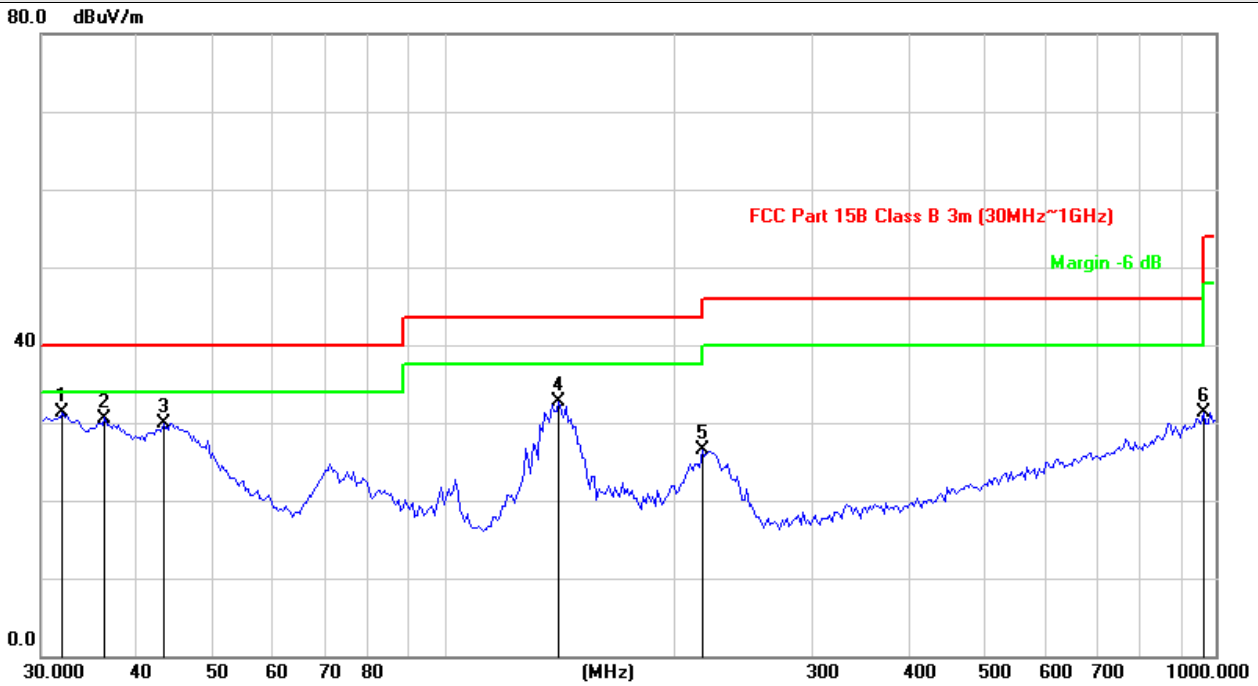


No	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)
1	102.6117	45.39	-17.26	28.13	43.50	-15.37	200	324
2 *	137.8400	43.87	-15.09	28.78	43.50	-14.72	300	140
3	213.1035	43.93	-16.28	27.65	43.50	-15.85	200	219
4	231.8531	45.05	-15.72	29.33	46.00	-16.67	300	206
5	765.6482	31.44	-3.71	27.73	46.00	-18.27	200	185
6	979.1392	31.25	0.05	31.30	54.00	-22.70	300	152

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value

Antenna Polarity & Test distance: Vertical at 3m



No	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)
1 *	31.9586	47.94	-16.62	31.32	40.00	-8.68	100	118
2	36.2678	47.18	-16.58	30.60	40.00	-9.40	100	174
3	43.2333	46.58	-16.58	30.00	40.00	-10.00	100	253
4	140.7767	47.68	-14.91	32.77	43.50	-10.73	100	162
5	216.1197	42.67	-16.19	26.48	46.00	-19.52	100	87
6	965.4742	31.50	-0.13	31.37	54.00	-22.63	200	220

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level - Limit value

5 20dB bandwidth measurement

5.1 Limits of 20dB bandwidth measurement

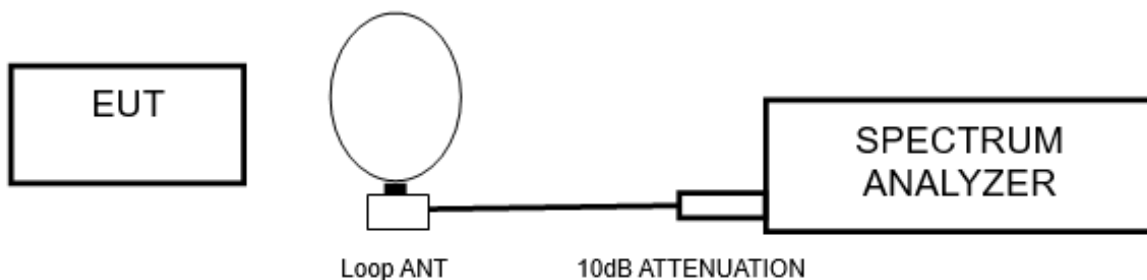
The field strength of any emissions appearing between the band edges and out of band shall be attenuated at least 20 dB below the level of the unmodulated carrier or to the general limits in Section 15.209

5.2 Test instruments

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Spectrum (10kHz~26.5GHz)	Keysight	N9020A	MY51240612	2021/09/16
Power Meter 10Hz~18GHz	Tonscend	JS0806-2	188060126	2021/09/16
Spectrum Analyzer	Rohde&Schwarz	FSV-40N	101783	2021/09/16
Signal generator	Keysight	N5182A	GB40051020	2021/09/16
Signal generator	Keysight	N5182A	MY47420944	2021/09/16
Test Software	Tonscend	JS0806-2	NA	NA
Power Meter 10Hz~18GHz	Tonscend	JS0806-2	188060126	2021/09/16
Universal Control Unit Switch	Rohde&Schwarz	CMW500	12010002K50	2021/09/16
Test Software	Tonscend	JS0806-2	NA	NA
Loop Antenna 9kHz~30MHz	TESEQ	HLA 6121	56735	2022/04/15

- Note: 1. The calibration interval of the above test instruments is 12/24 months and the calibrations are traceable to CEPREI/CHINA.
2. The test was performed in Chamber 1.

5.3 Test setup



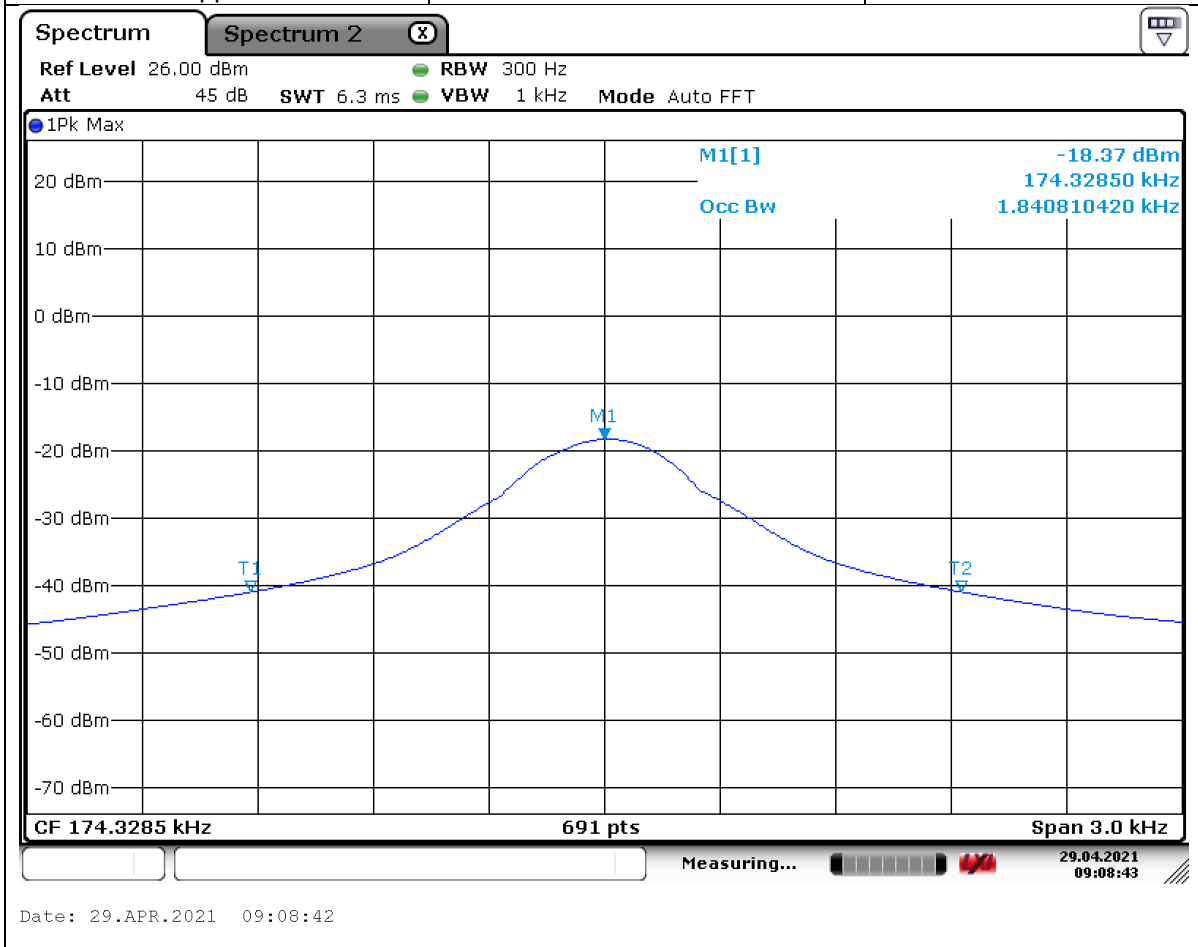
5.4 EUT operating condition

- a. Turn on the EUT.
- b. The EUT tested in charging mode and standby mode respectively

5.5 Test results

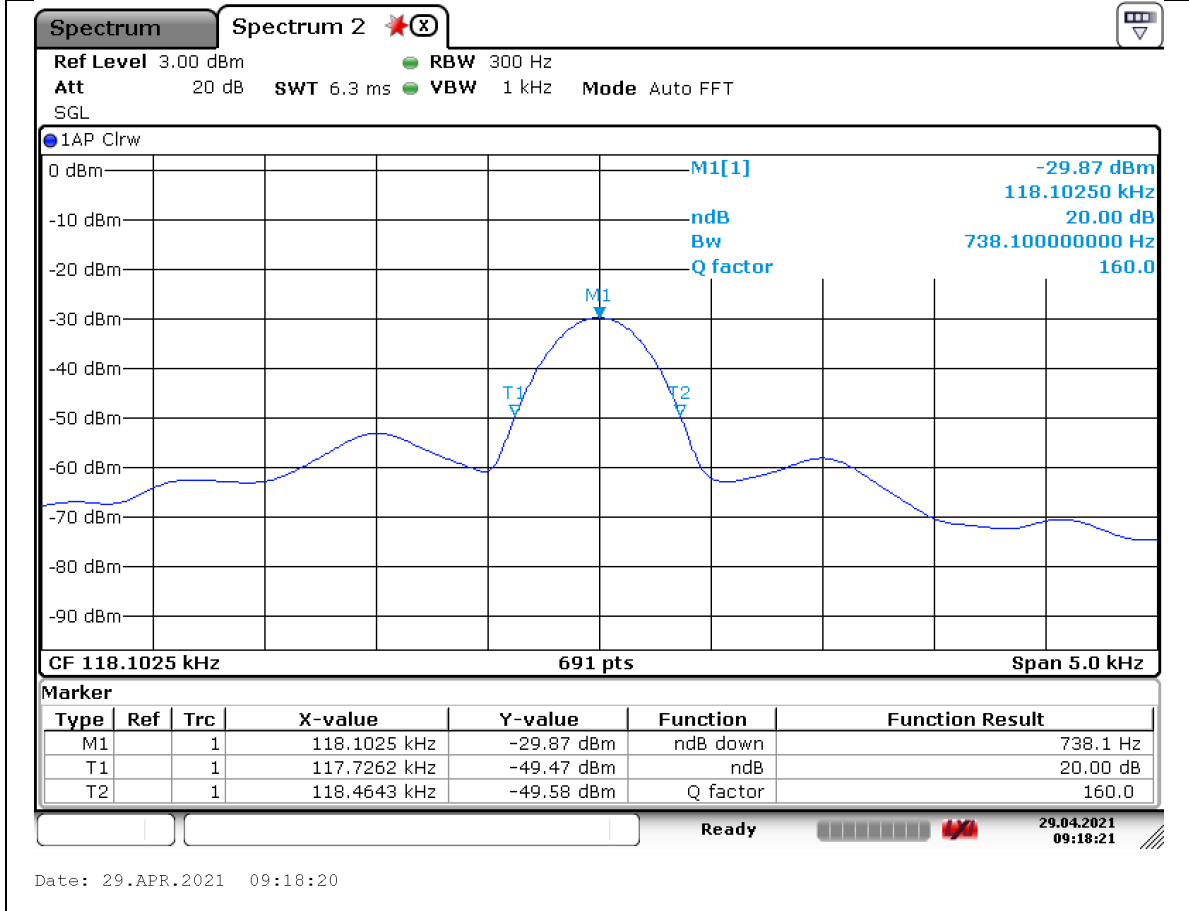
Test mode	Channel frequency (kHz)	20dB bandwidth (kHz)
Standby mode	160~180	1.840

Lower & Upper Test Frequency Point (MHz)	Test Frequency (KHz)	P/F
Lower	173.4046	Pass
Upper	175.2454	Pass



Test mode	Channel frequency (kHz)	20dB bandwidth (kHz)
Charging + Transmitting	110~130	0.738

Lower & Upper Test Frequency Point (MHz)	Test Frequency (KHz)	P/F
Lower	117.726	Pass
Upper	118.464	Pass





6 Pictures of Test Procedures

Please refer to the attached file (Test Setup Photo).

Appendix – Information on the Testing Laboratories

We, Hwa-Hsing (Dongguan) Co., Ltd., A global provider of TESTING and CERTIFICATION services for consumer products, electronic products and wireless information technology products. Adhering to the core values “HONEST and TRUSTWORTHY, OBJECTIVE and IMPARTIALITY, RIGOROUS and AFFICIENT”, commitment to provide professional, perfect and efficient comprehensive ONE-STOP solution of TESTING and CERTIFICATION services for Manufacturers, Buyers, Traders, Brands, Retailers. Assist client to better manage risk, protect their brands, reduce costs and cut time to over 150 markets in global. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Email: Customerservice.dg@hwa-hsing.com

Web Site: www.hwa-hsing.com

The address and road map of all our labs can be found in our web site also.

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