

FCC Part 15, Subpart C

Test Report

FCC ID: 2AR2SAX700

Applicant: MMD Hong Kong Holding Limited

Address: Units 1208-11, 12th Floor, C-Bons International Center, 108 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong

Manufacturer: MMD Hong Kong Holding Limited

Address: Units 1208-11, 12th Floor, C-Bons International Center, 108 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong

Product: Party Speaker

Brand: AOC

Test Model(s): AX700W/10

Series Model(s): AX701B/10, AX701U/10, AX700x/yy, AX701x/yy (x=A-Z or NiL , yy=00-99 or NiL for country code)

Test Date: Jan. 10, 2023 ~ Feb. 20, 2023

Issued Date: Mar. 13, 2023

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

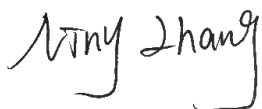
Lab Address: No.101, Bld N1, Yuyuan 2Rd, Yuyuan Industrial Park, HuangJiang Town, Dongguan, China

Test Firm Registration No.: 915896

Standards: FCC Part 15, Subpart C

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.

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Approved by :



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**Release Control Record**

Issue No.	Description	Date Issued
221226KH23-RF-US-03	Original release.	Mar. 13, 2023



1 Summary of Test Results

FCC Part 15, Subpart C			
Clause	Test Item	Result/Remarks	Verdict
§15.203	Antenna Requirement	No antenna connector is used	Not Applicable
§15.207	AC Power Conducted Emission	Meet the requirement of limit.	Pass
§15.209	Radiated Emission	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

1.2 Modification Record

There were no modifications required for compliance.



2 General Information

2.1 General Description of EUT

Product Name	Party Speaker
Brand	AOC
FCC ID	2AR2SAX700
Test Model	AX700W/10
Series Models	AX701B/10, AX701U/10, AX700x/yy, AX701x/yy (x=A-Z or NiL , yy=00-99 or NiL for country code)
Power Supply Rating	AC 100-240V~ 50/60Hz 50W
Modulation type	FSK
Operating frequency	110kHz~205kHz
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.: 221226KH23-01&02) for detailed product photo.
4. Model difference:

Model name	Differences
AX700W/10, AX700x/yy (x=A-Z or NiL, yy=00-99 or NiL for country code)	With Light effect, without cart
AX701B/10, AX701U/10, AX701x/yy (x=A-Z or NiL, yy=00-99 or NiL for country code)	Without Light effect, with cart
All models are identical except for the differences described above and color.	



2.2 Operating Modes of EUT

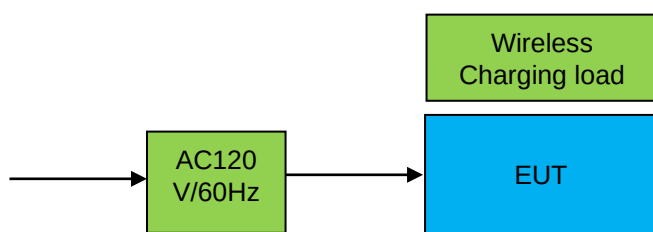
The EUT was tested under the following modes the final worst mode was marked in boldface and recorded in this report.

Test frequency	Test mode	Test voltage
110~148kHz	wireless charging + Transmitting	AC120V/60Hz
110~180kHz	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~Gacted as communication partners to transfer data.

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



4 Conducted Emission Measurement

4.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

4.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Due Date of Calibration
EMI Test Receiver Rohde&Schwarz	ESR 7	100962	2023-12-27
Artificial Mains Network Rohde&Schwarz	ENV216	3560.6550.15	2023-12-27
Test software FARAD	EZ EMC V1.1.4.2	N/A	N/A
Hygrothermograph YuhuaZe	HTC-1	NA	2023-08-25
Digital Multimeter FLUKE	15B+	43512617WS	2023-08-25

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

4.3 Test Procedures

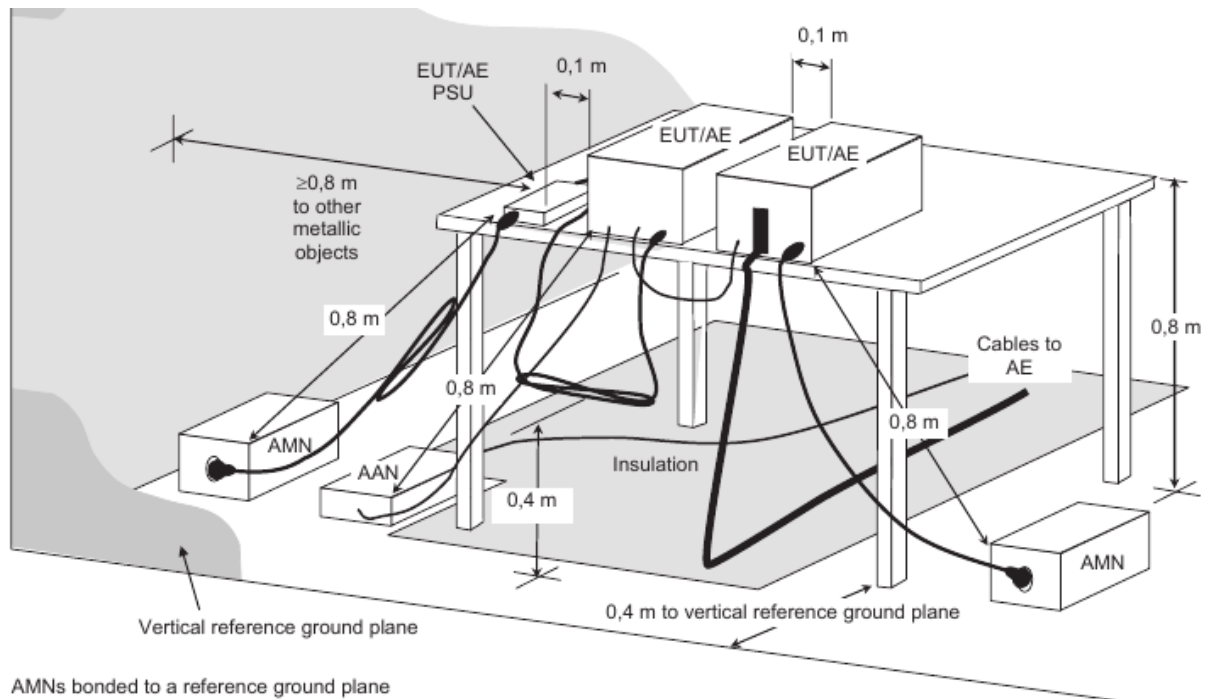
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit – 20dB) was not recorded.

Note: All modes of operation were investigated and the worst-case emissions are reported.

4.4 Deviation from Test Standard

No deviation.

4.5 Test setup



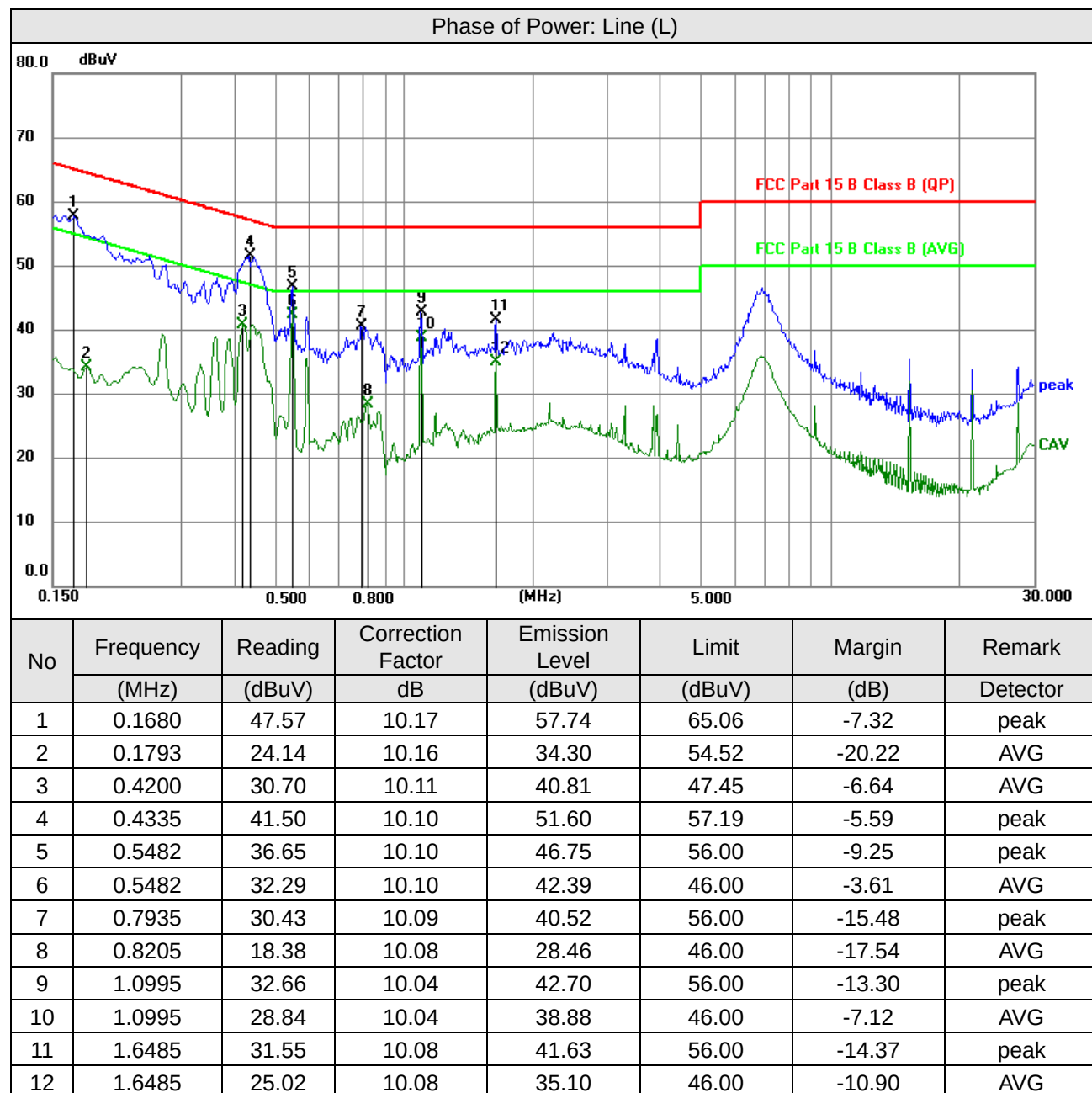
4.6 EUT Operating Conditions

- Placed the EUT on the testing table.
- Set the EUT under transmission condition continuously at specific channel frequency.



4.7 Test Results

Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Power supply	AC120V/60Hz	Environmental Conditions	21.4℃, 63%RH

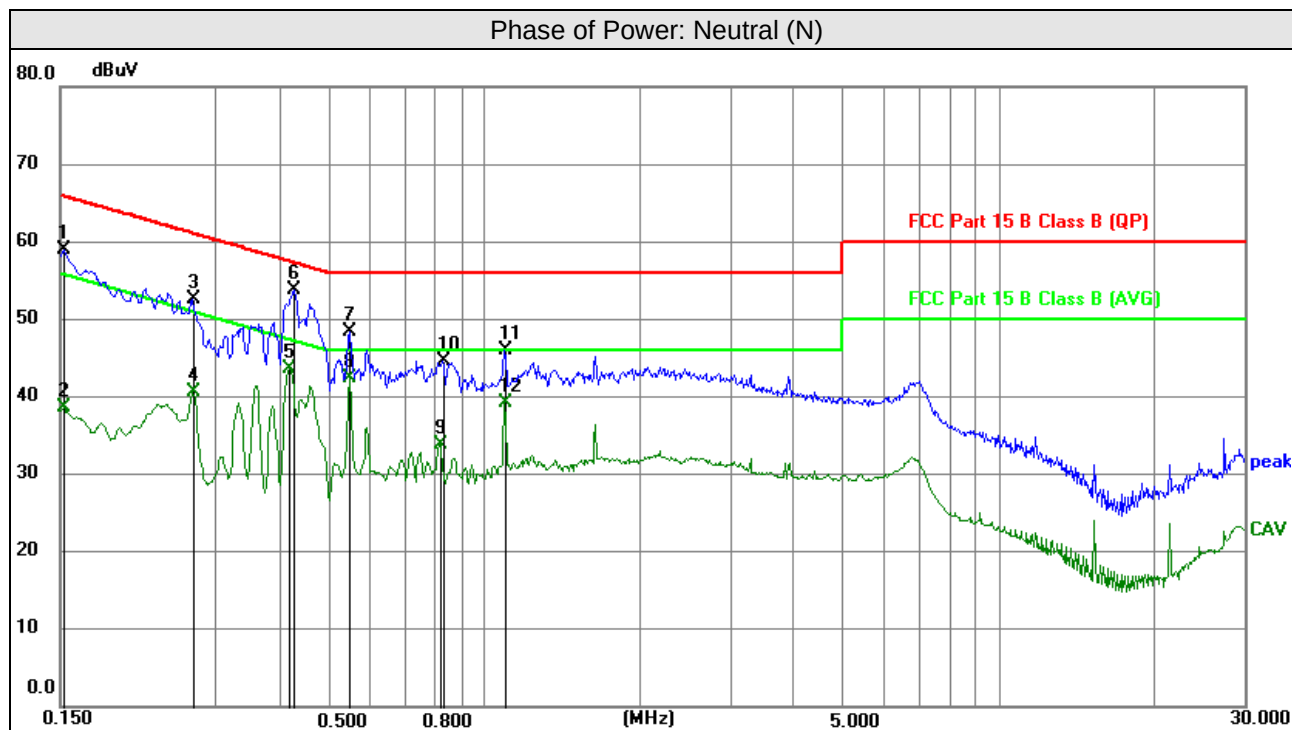


Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Power supply	AC120V/60Hz	Environmental Conditions	21.4℃, 63%RH



No.	Frequency	Reading	Correction Factor	Emission Level	Limit	Margin	Remark
	(MHz)	(dBuV)	dB	(dBuV)	(dBuV)	(dB)	Detector
1	0.1522	48.69	10.18	58.87	65.88	-7.01	peak
2	0.1522	28.43	10.18	38.61	55.88	-17.27	AVG
3	0.2714	42.32	10.17	52.49	61.07	-8.58	peak
4	0.2714	30.48	10.17	40.65	51.07	-10.42	AVG
5	0.4200	33.52	10.09	43.61	47.45	-3.84	AVG
6	0.4267	43.59	10.09	53.68	57.32	-3.64	peak
7	0.5482	38.31	10.11	48.42	56.00	-7.58	peak
8	0.5482	32.30	10.11	42.41	46.00	-3.59	AVG
9	0.8205	23.74	10.07	33.81	46.00	-12.19	AVG
10	0.8317	34.50	10.07	44.57	56.00	-11.43	peak
11	1.0995	35.95	10.05	46.00	56.00	-10.00	peak
12	1.0995	29.20	10.05	39.25	46.00	-6.75	AVG

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



5 Radiated Emissions up to 1 GHz

5.1 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)

5.2 Test Instruments

Radiated emission below 30MHz:

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
3m Semi-anechoic Chamber	MAORUI	9m*6m*6m	NSEMC003	2023-04-15
EMI Test Receiver	Rohde&Schwarz	ESR7	100962	2023-12-27
Loop Antenna	EMCI	HLA 6121	45745	2023-04-10
Preamplifier	EMCI	EMC001340	980201	2023-04-15
Test software	FARAD	FARAD	EZ_EMCV1.1.4.2	N/A
Antenna Tower	MF	MFA-440H	NA	NA
Turn Table	MF	MFT-201SS	NA	NA
Antenna Tower&Turn Table Controller	MF	MF-7802	NA	NA

Frequency Range below 1GHz:

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
3m Semi-anechoic Chamber	MAORUI	9m*6m*6m	NSEMC003	2023-04-15
EMI Test Receiver	Rohde&Schwarz	ESR7	100962	2023-12-27
Broadband antenna	Schwarzbeck	VULB 9168	00937	2023-09-12
Signal Amplifier	Com-power	PAM-103	18020051	2023-08-25
Attenuator	Rohde&Schwarz	TS2GA-6dB	18101101	N/A
Test software	FARAD	FARAD	EZ_EMCV1.1.4.2	N/A

Note: 1. The calibration interval of the above test instruments is 12 months or 24 months (Antenna and Semi-anechoic Chamber) and the calibrations are traceable to CEPREI/CHINA.



5.3 Test Procedure

Peak emission levels are measured by setting the instrument as follow:

- 1) RBW & VBW setting as a function of frequency:

Frequency	RBW	VBW
9kHz~150kHz	200Hz	600Hz
0.15MHz~30MHz	9kHz	30kHz
30MHz~1000MHz	120kHz	300kHz
>1000MHz	1MHz	3MHz

- 2) Detector = peak.
3) Sweep time = auto.
4) Trace mode = max hold.
5) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be lengthened for low-duty-cycle applications.)

Note: If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement

9kHz~30MHz

- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- 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

- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

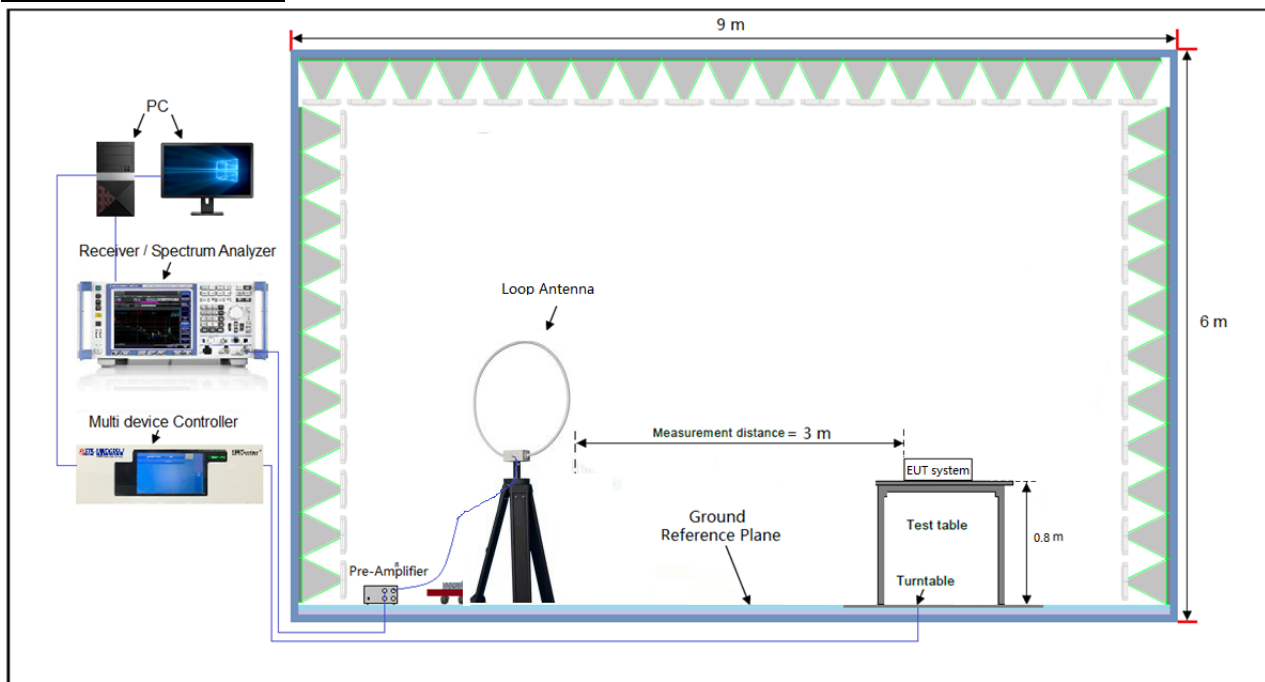
5.4 Deviation from test standard

No deviation.

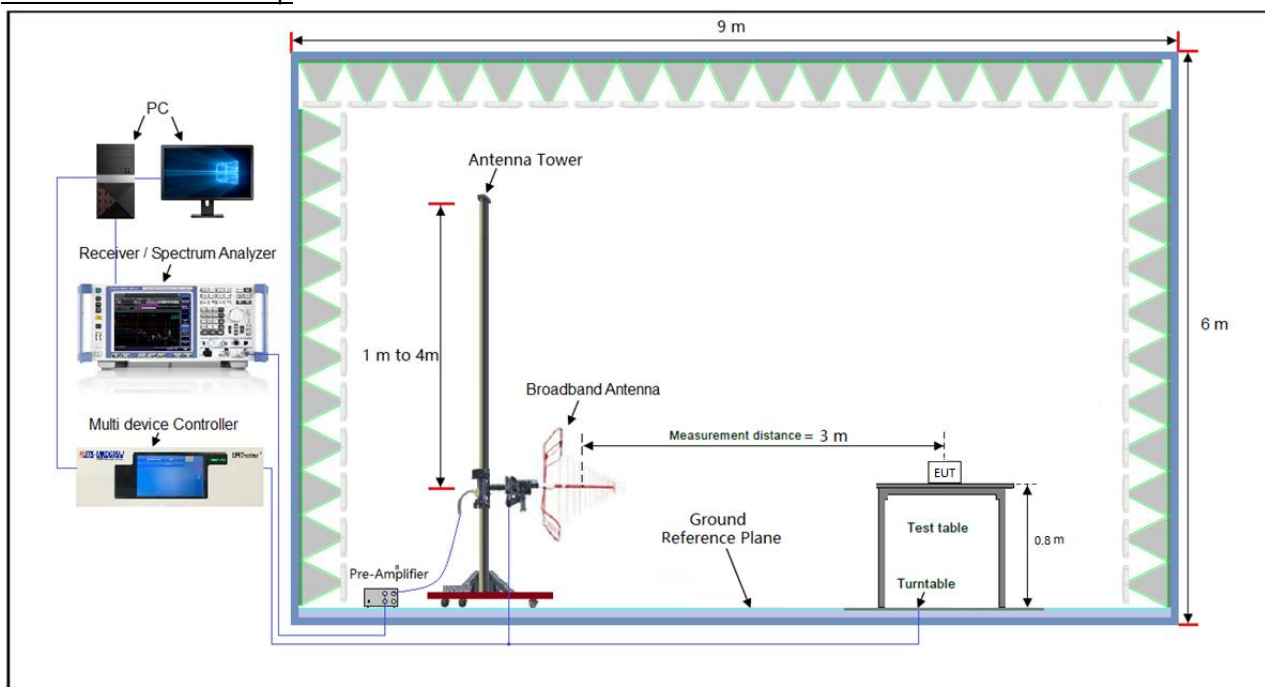


5.5 Test Setup

9kHz~30MHz test setup



30MHz~1GHz test setup

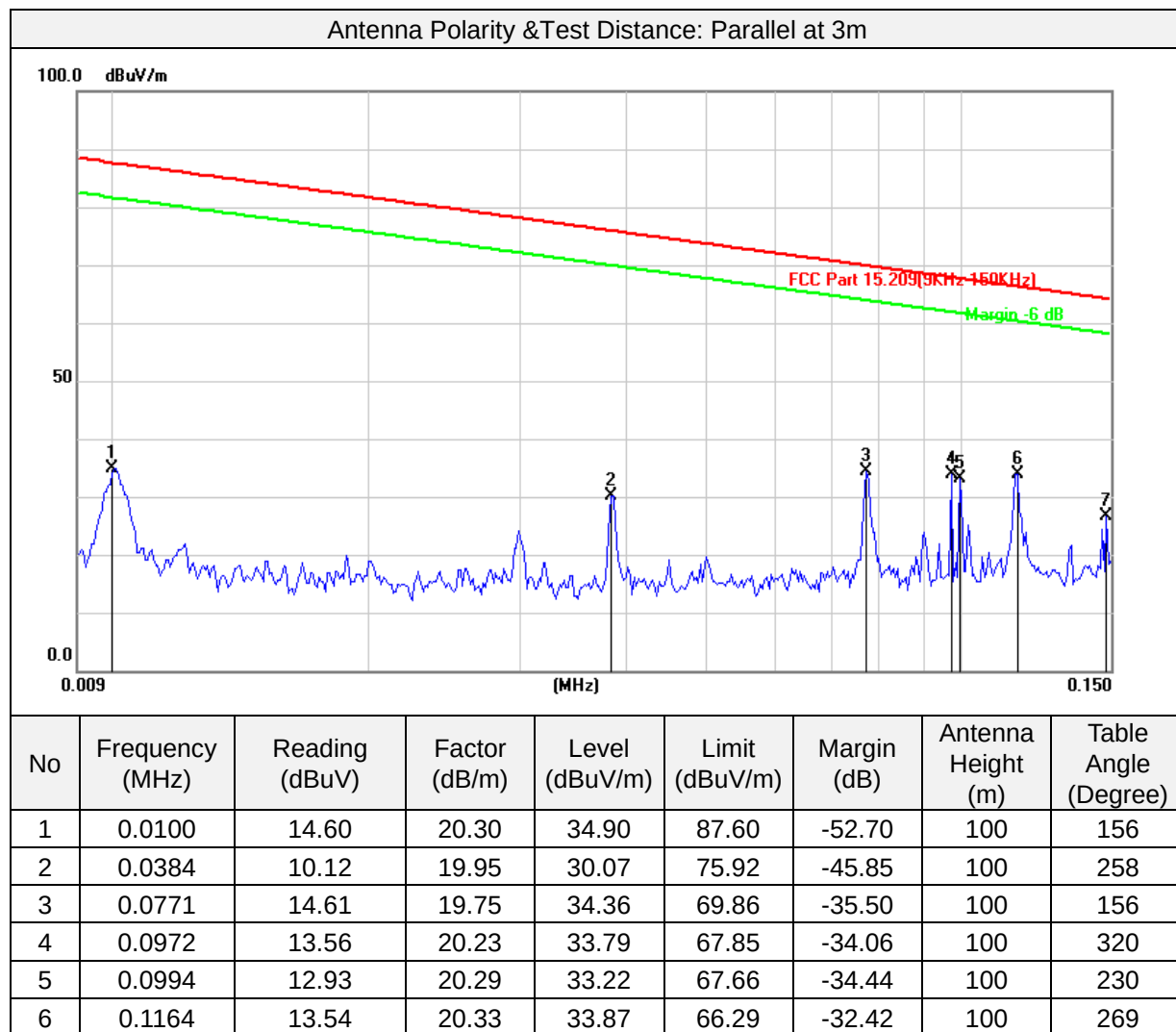


Note: For the actual test configuration, please refer to the attached file (Test Setup Photo).



5.6 Test Results

Test model	AX700W/10		
Test mode	Standby		
Frequency Range	9kHz ~150kHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 200Hz

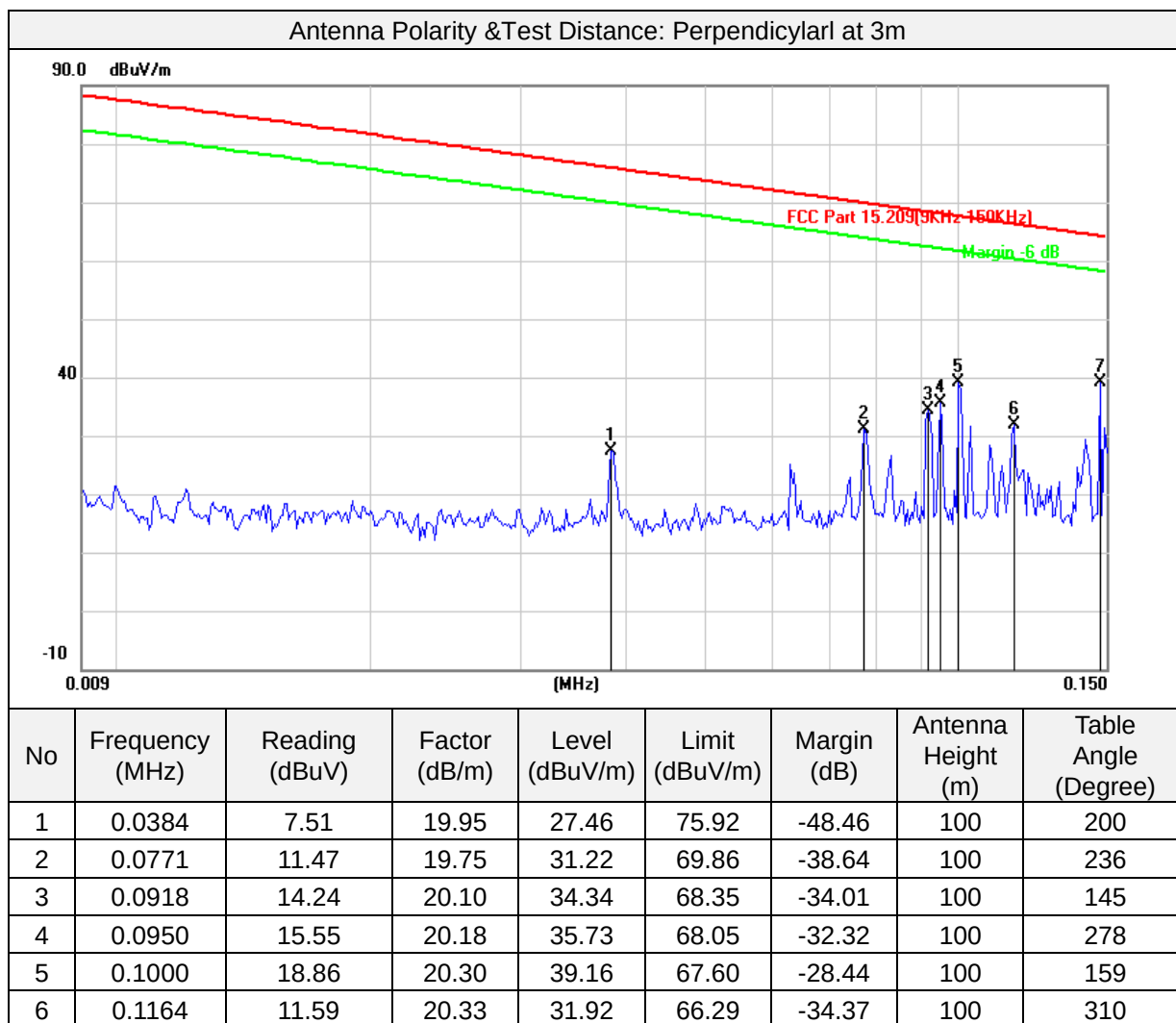


REMARKS:

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.



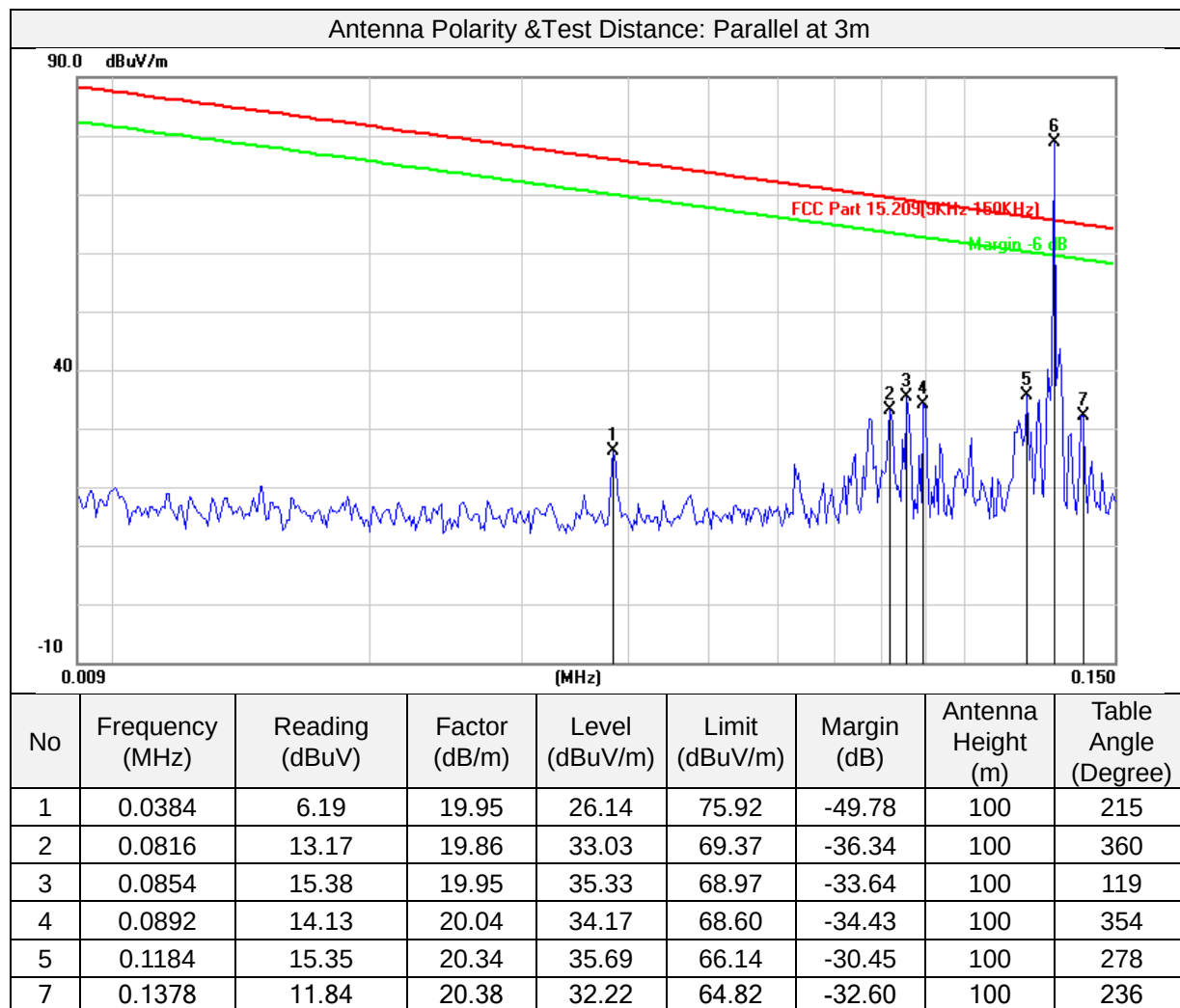
Test model	AX700W/10		
Test mode	Standby		
Frequency Range	9kHz ~150kHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 200Hz



- 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 model	AX700W/10		
Test mode	Wireless charging mode		
Frequency Range	9kHz ~150kHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 200Hz

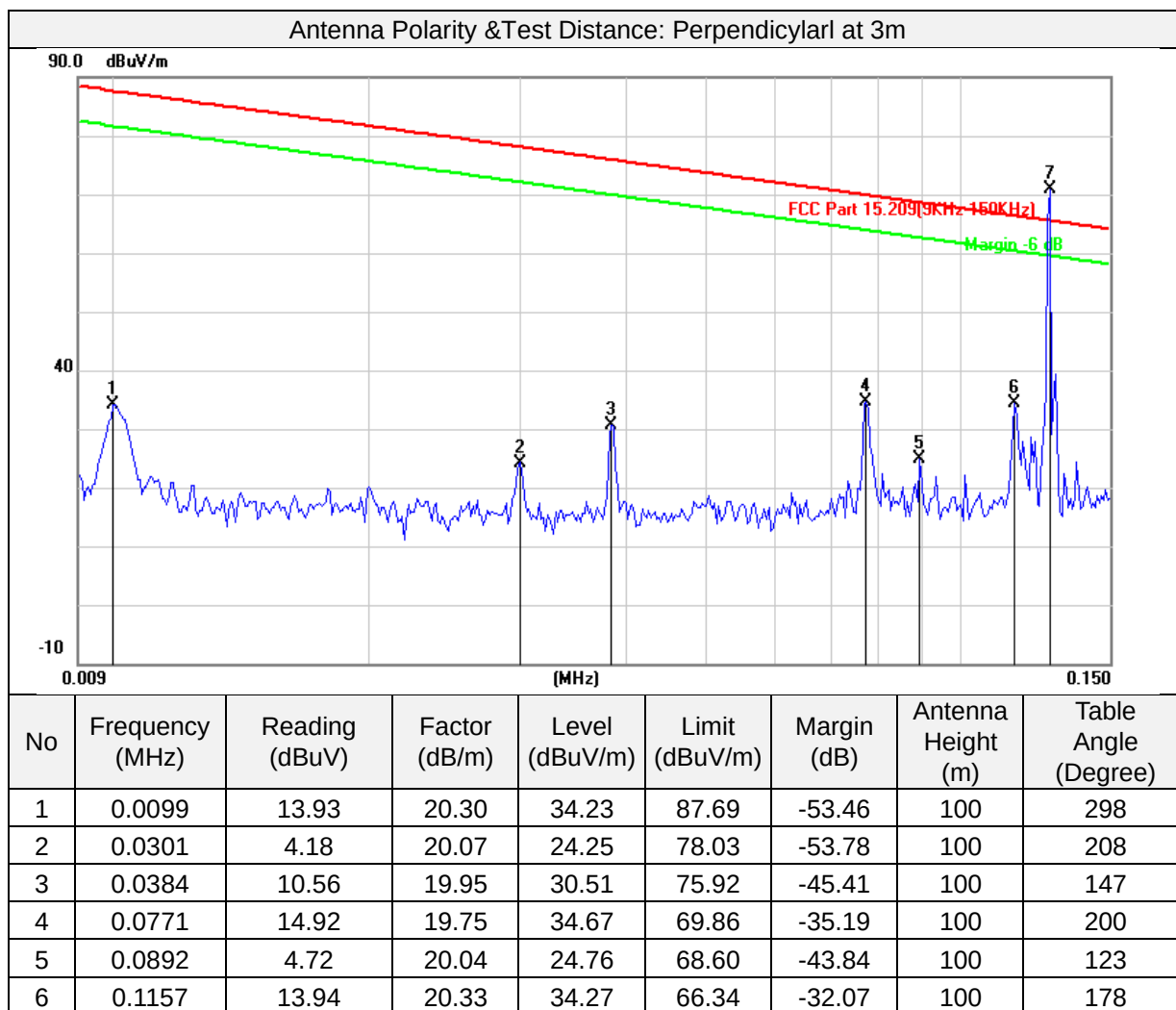


Remarks:

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 model	AX700W/10		
Test mode	Wireless charging mode		
Frequency Range	9kHz ~150kHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 200Hz

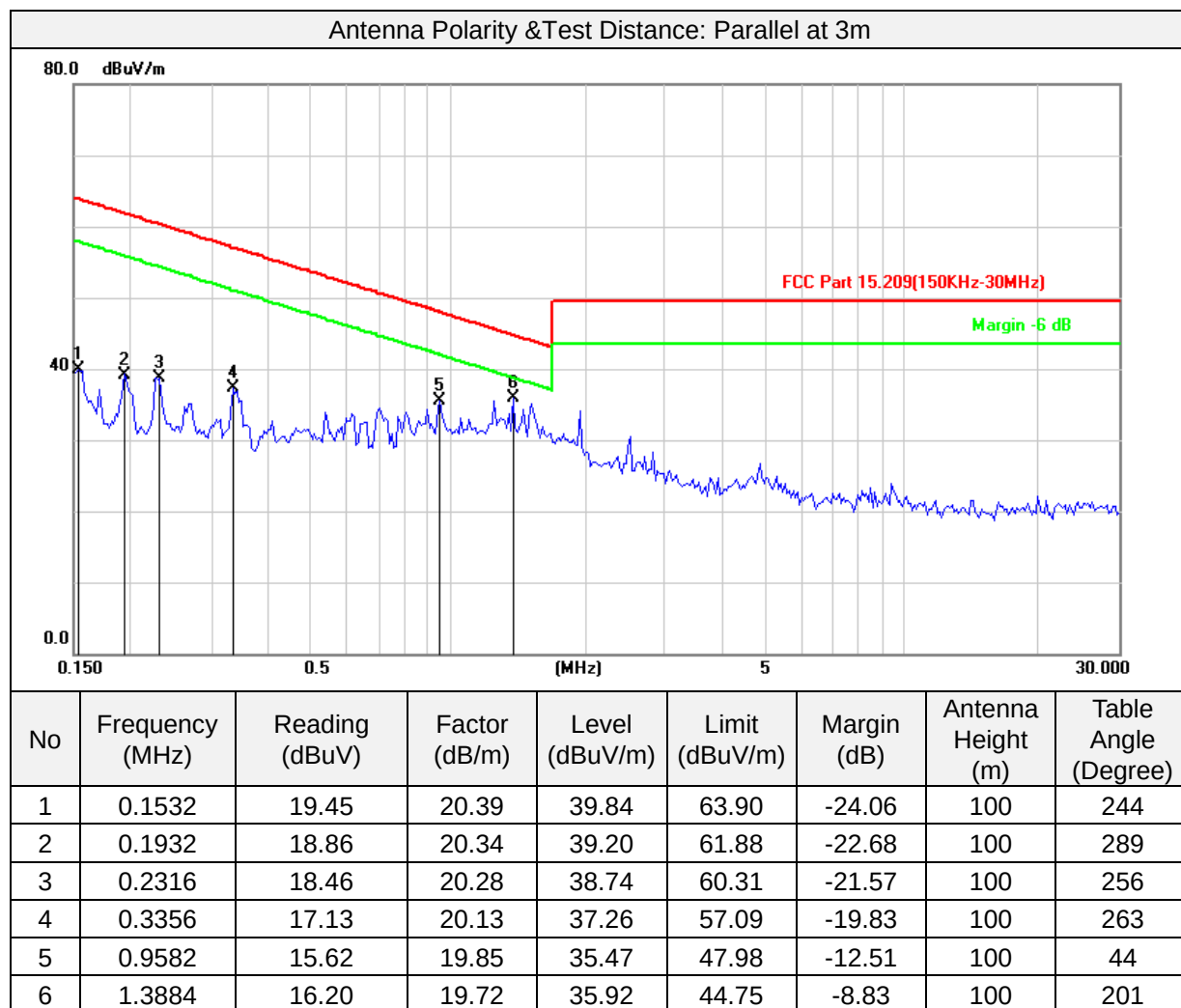


Remarks:

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 model	AX700W/10		
Test mode	Standby mode		
FrequencyRange	150kHz ~30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 200Hz

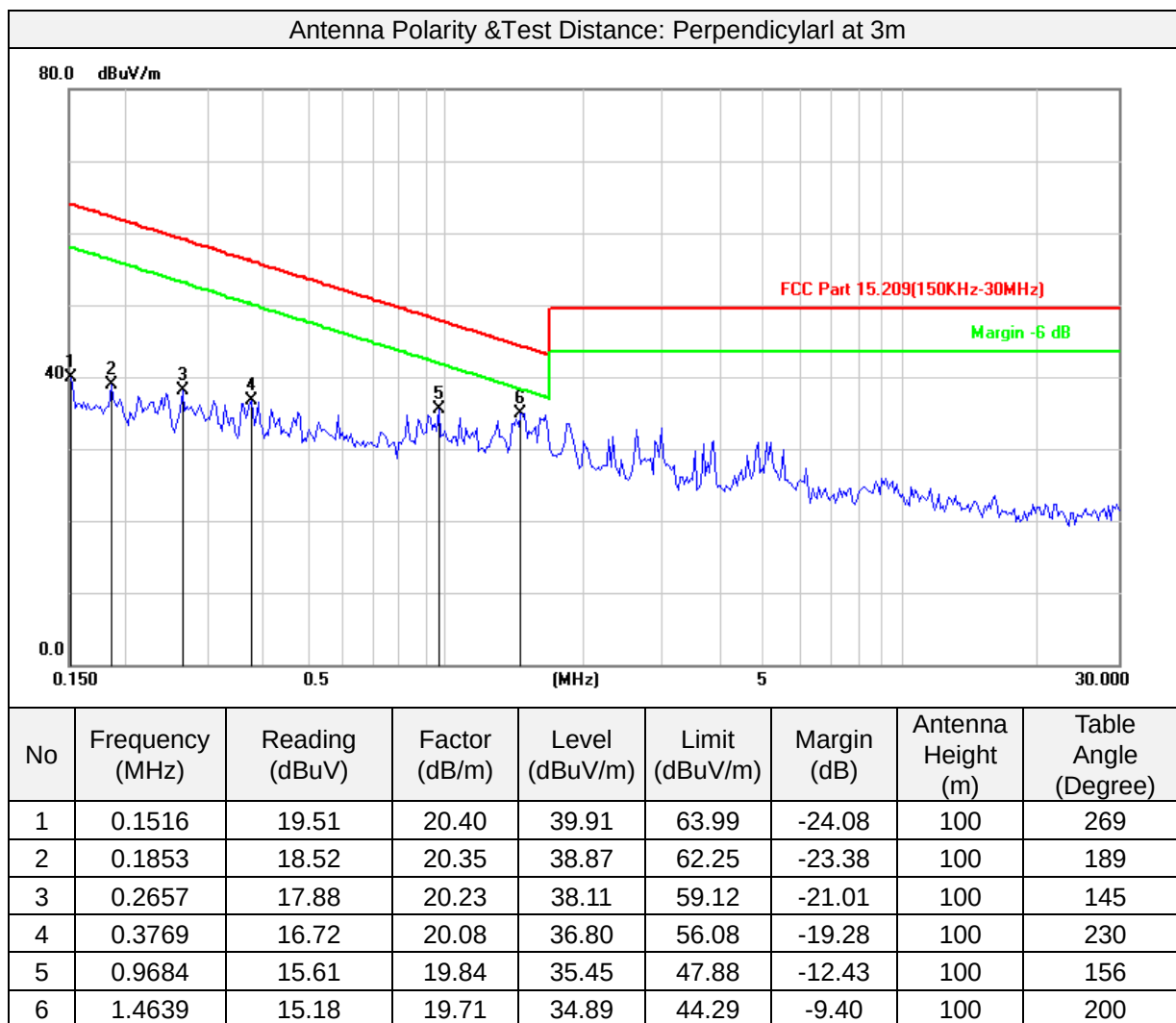


Remarks:

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 model	AX700W/10		
Test mode	Standby mode		
FrequencyRange	150kHz ~30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 200Hz

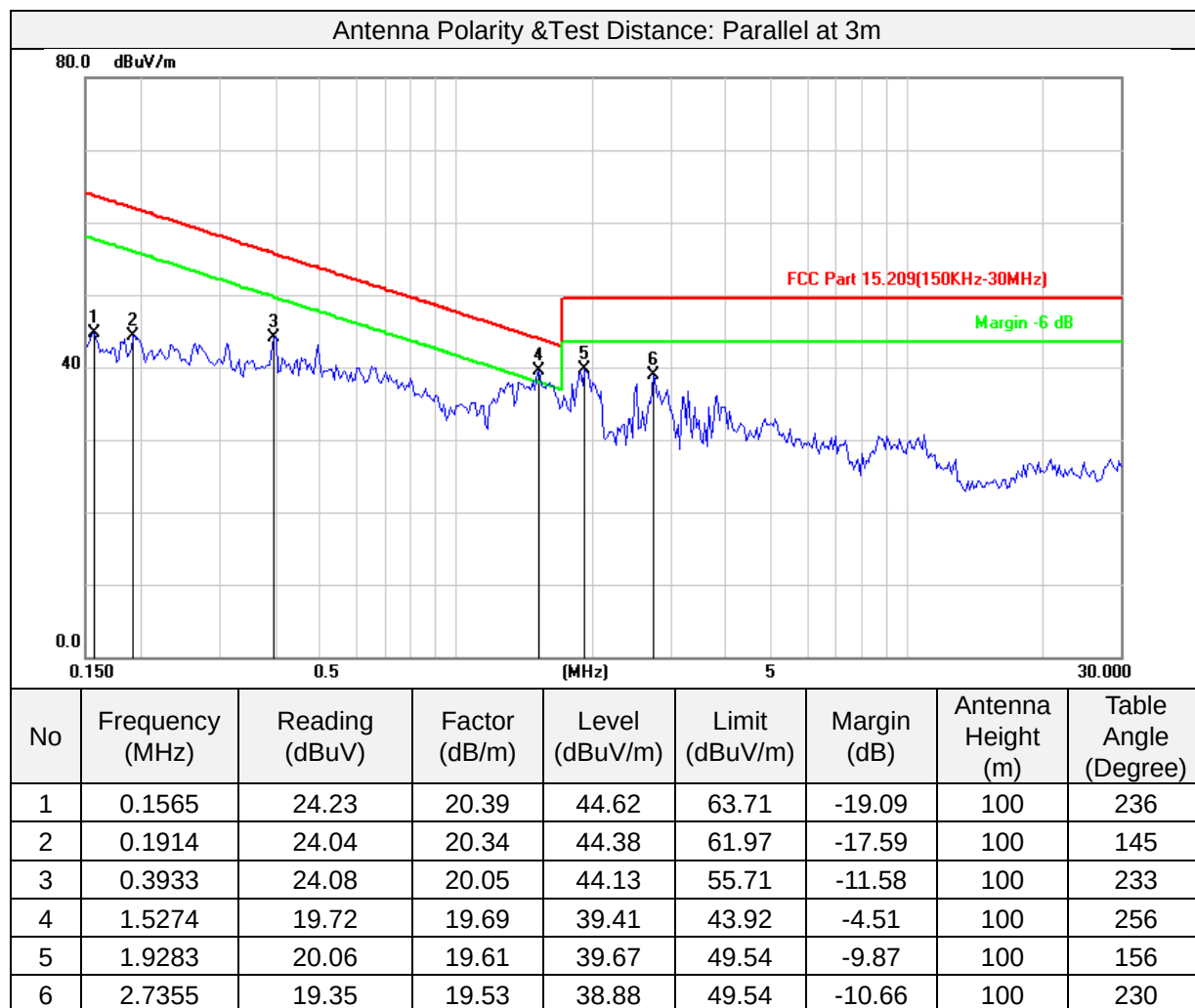


Remarks:

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 model	AX700W/10		
Test mode	Wireless charging mode		
FrequencyRange	150kHz ~30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 200Hz

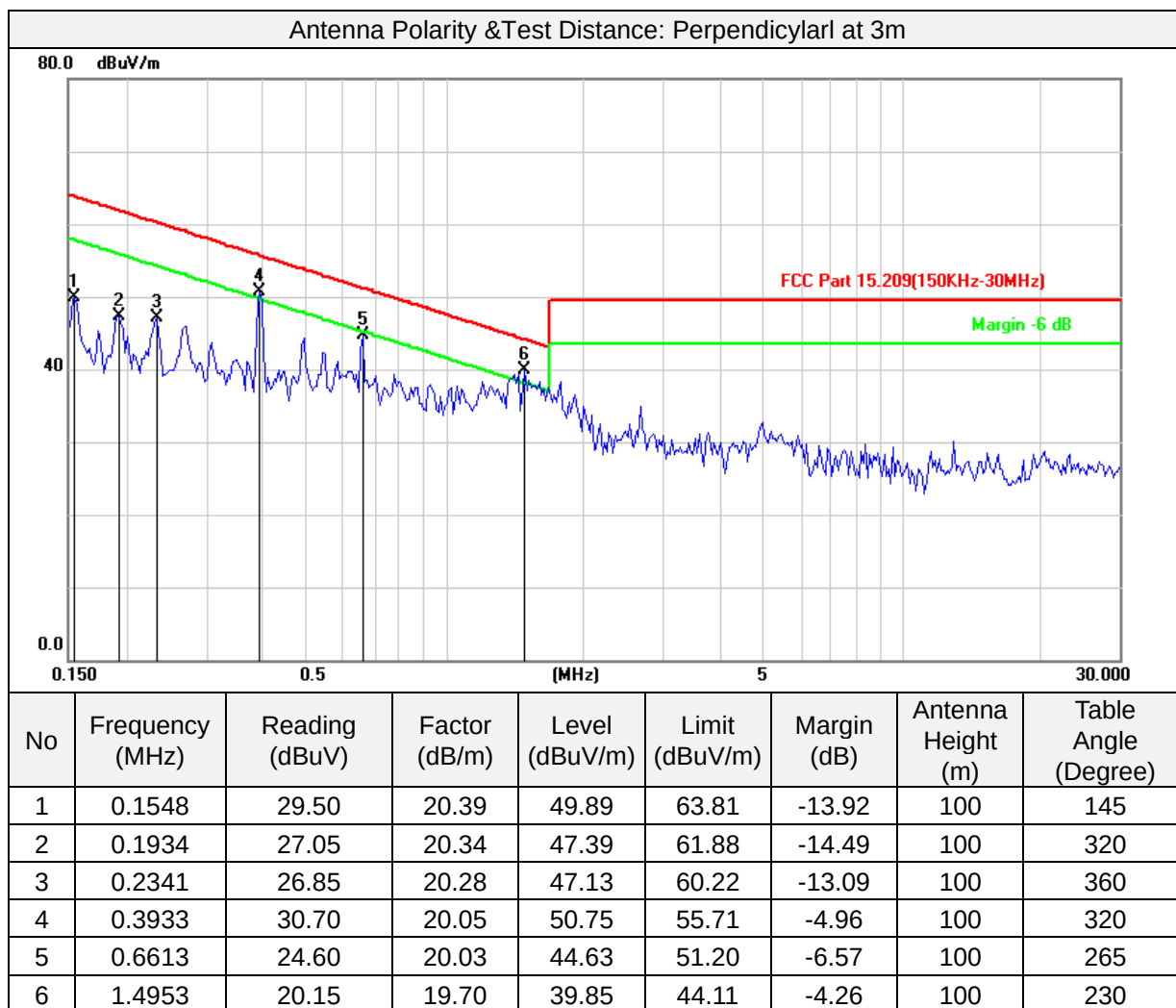


Remarks:

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 model	AX700W/10		
Test mode	Wireless charging mode		
FrequencyRange	150kHz ~30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 200Hz

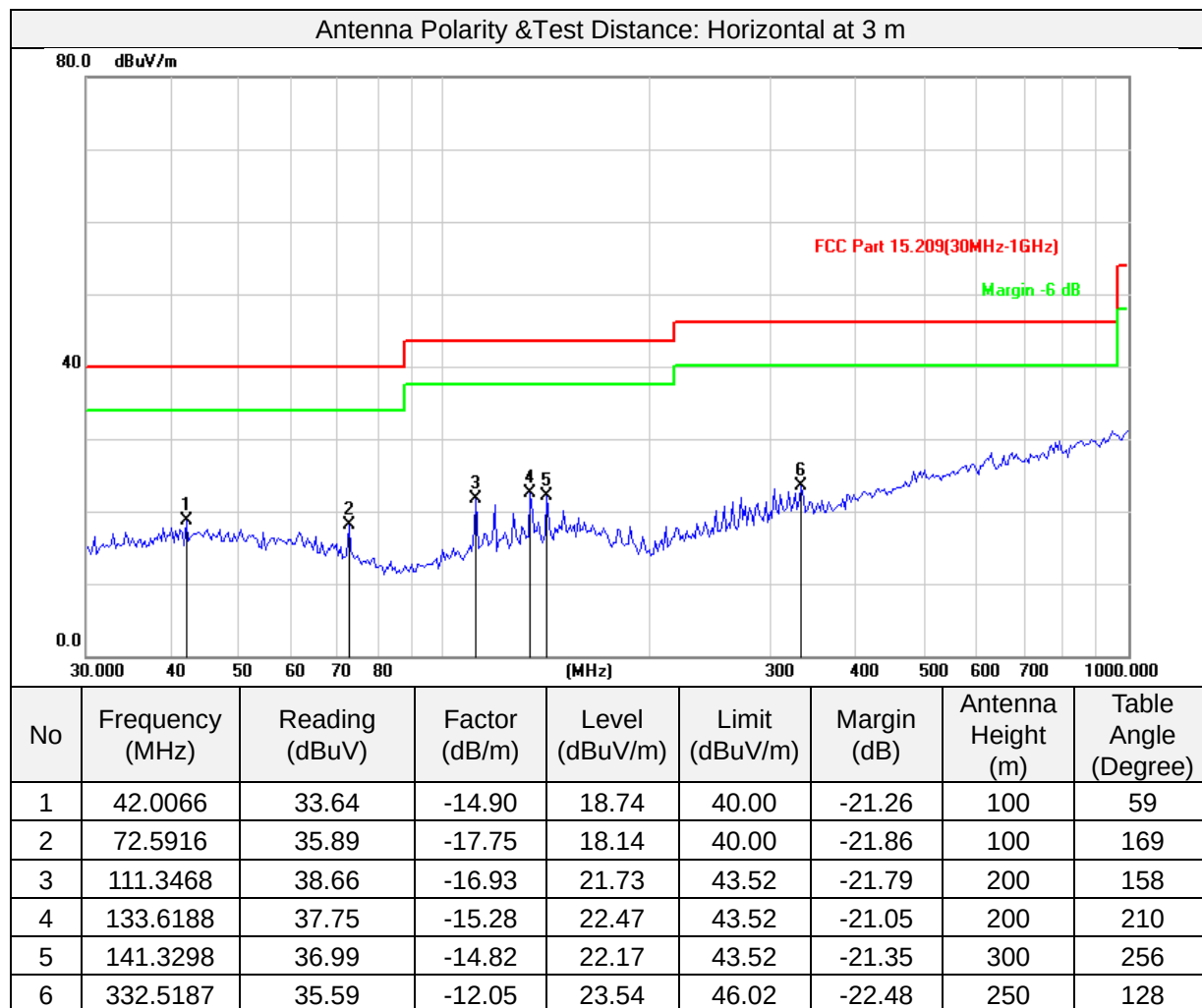


Remarks:

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 model	AX700W/10		
Test mode	Standby		
FrequencyRange	30MHz ~1GHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 120kHz



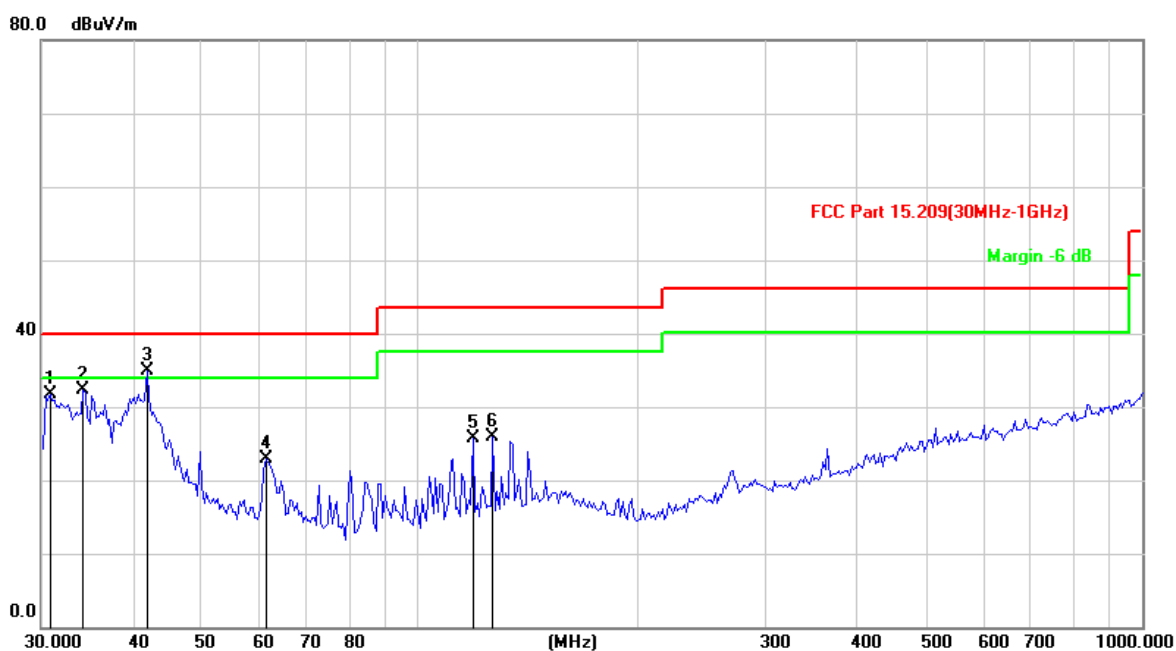
Remarks:

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 model	AX700W/10		
Test mode	Standby		
FrequencyRange	30MHz ~1GHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 120kHz

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	30.8535	47.93	-16.32	31.61	40.00	-8.39	100	329
2	34.2760	48.05	-15.67	32.38	40.00	-7.62	200	263
3	42.0066	49.81	-14.90	34.91	40.00	-5.09	130	130
4	61.3463	39.24	-16.31	22.93	40.00	-17.07	120	155
5	118.6014	42.05	-16.25	25.80	43.52	-17.72	150	144
6	126.3286	41.52	-15.71	25.81	43.52	-17.71	250	120

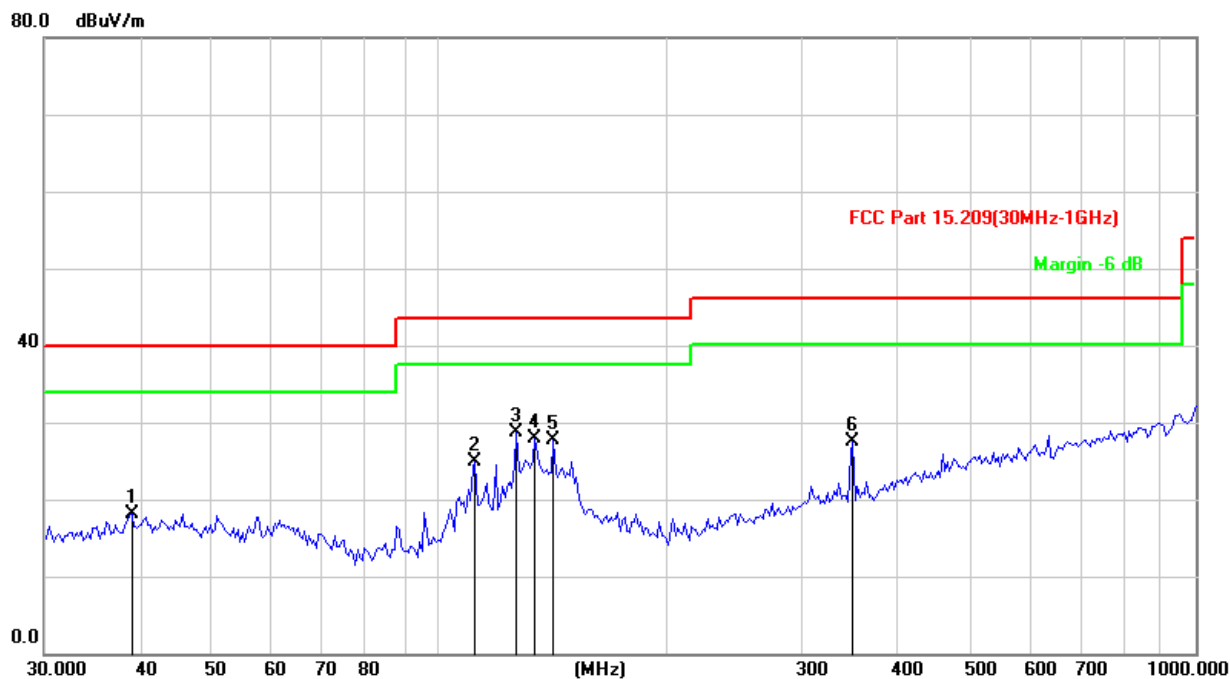
Remarks:

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 model	AX700W/10		
Test mode	Wireless charging mode		
Frequency Range	30MHz ~ 1GHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 120kHz

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	39.1616	33.10	-14.97	18.13	40.00	-21.87	200	320
2	111.3468	41.82	-16.93	24.89	43.52	-18.63	100	149
3	126.3286	44.43	-15.71	28.72	43.52	-14.80	150	320
4	133.6188	43.18	-15.28	27.90	43.52	-15.62	230	265
5	141.3298	42.43	-14.82	27.61	43.52	-15.91	200	145
6	351.7079	39.05	-11.47	27.58	46.02	-18.44	150	230

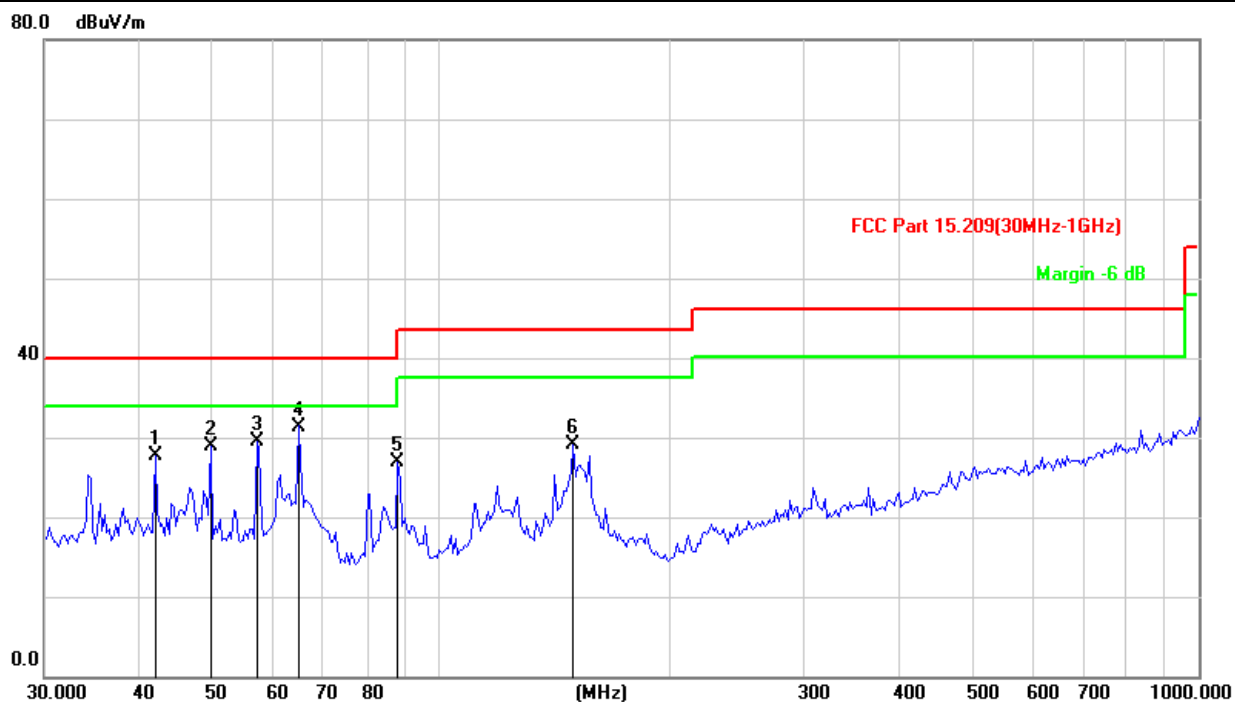
Remarks:

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 model	AX700W/10		
Test mode	Wireless charging mode		
Frequency Range	30MHz ~ 1GHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP), 120kHz

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	42.0066	42.57	-14.90	27.67	40.00	-12.33	100	98
2	49.7068	43.97	-15.08	28.89	40.00	-11.11	200	215
3	57.1914	45.40	-15.85	29.55	40.00	-10.45	200	215
4	64.8865	48.09	-16.69	31.40	40.00	-8.60	150	360
5	87.7248	46.18	-19.36	26.82	40.00	-13.18	100	124
6	149.4857	43.49	-14.45	29.04	43.52	-14.48	200	230

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



6 Pictures of Test Procedures

Please refer to the attached file (Test Setup Photo 221226KH23-03).



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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