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TEST REPORT

Report No.: **CTC20222108E01**

Applicant.....: **Fanvil Technology Co., LTD.**

Address.....: 10/F Block A, Dualshine Global Science Innovation Center,
Honglang North 2nd Road, Bao'an District, Shenzhen, China

Manufacturer.....: Fanvil Technology Co., LTD.

Address.....: 10/F Block A, Dualshine Global Science Innovation Center,
Honglang North 2nd Road, Bao'an District, Shenzhen, China

Product Name.....: **IP Phone**

Trade Mark.....: **Fanvil**

Model/Type reference.....: X301G, X303W, X301W

Listed Model(s): X303, X301P, X301, X303G, X303P

Standard.....: **47 CFR FCC Part 15 Subpart B - Unintentional Radiators**

Date of receipt of test sample...: Nov. 24, 2022

Date of testing.....: Nov. 25, 2022 ~ Dec. 13, 2022

Date of issue.....: Dec. 14, 2022

Result.....: **PASS**

Compiled by:

(Printed name+signature)

Terry Su

Terry Su

Supervised by:

(Printed name+signature)

Eric Zhang

Eric Zhang

Approved by:

(Printed name+signature)

Totti Zhao

Totti Zhao

Testing Laboratory Name.....: **CTC Laboratories, Inc.**

Address.....: 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park,
Shenzhen, Guangdong, China

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Table of Contents

Page

1. TEST SUMMARY	3
1.1. TEST STANDARDS	3
1.2. REPORT VERSION	3
1.3. TEST DESCRIPTION	4
1.4. TEST FACILITY	5
1.5. MEASUREMENT UNCERTAINTY	5
1.6. ENVIRONMENTAL CONDITIONS	6
2. GENERAL INFORMATION.....	7
2.1. CLIENT INFORMATION	7
2.2. GENERAL DESCRIPTION OF EUT	7
2.3. ACCESSORY EQUIPMENT INFORMATION.....	8
2.4. DESCRIPTION OF TEST MODES.....	9
2.5. MEASUREMENT INSTRUMENTS LIST	10
3. EMC EMISSION TEST	11
3.1. RADIATED EMISSION.....	11
3.2. CONDUCTED EMISSION (AC MAINS)	25
4. EUT TEST PHOTOS.....	32
5. PHOTOGRAPHS OF EUT CONSTRUCTIONAL	37





1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

[47 CFR FCC Part 15 Subpart B](#): Unintentional Radiators.

[ANSI C63.4: 2014](#): American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz.

1.2. Report version

Revised No.	Date of issue	Description
01	Dec. 14, 2022	Original





1.3. Test Description

FCC CFR Title 47 FCC Part 15 Subpart B			
Test Item	Standard Section	Result	Test Engineer
Conducted Emissions	15.107	Pass	Lance Lan
Radiated Emission	15.109	Pass	Amy Zhao

Note: "N/A" is no application.

The measurement uncertainty is not included in the test result.





1.4. Test Facility

CTC Laboratories, Inc.

Add: 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. EMC Laboratory has been registered and fully described in a report filed with the (FCC)Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 951311, Aug 26, 2017.

1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the CTC Laboratories, Inc. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Below is the best measurement capability for CTC Laboratories, Inc.





Test Items	Measurement Uncertainty	Notes
Conducted Emissions 9kHz~30MHz	3.08 dB	(1)
Radiated Emissions 30~1000MHz	4.51 dB	(1)
Radiated Emissions 1~18GHz	5.84 dB	(1)
Radiated Emissions 18~40GHz	6.12 dB	(1)

Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

1.6. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature	23°C
Relative Humidity	52%
Air Pressure	101kPa





2. GENERAL INFORMATION

2.1. Client Information

Applicant:	Fanvil Technology Co., LTD.
Address:	10/F Block A, Dualshine Global Science Innovation Center, Honglang North 2nd Road, Bao'an District, Shenzhen, China
Manufacturer:	Fanvil Technology Co., LTD.
Address:	10/F Block A, Dualshine Global Science Innovation Center, Honglang North 2nd Road, Bao'an District, Shenzhen, China

2.2. General Description of EUT

Product Name:	IP Phone
Trade Mark:	
Model/Type reference:	X301G, X301W, X303W
Listed Model(s):	X303, X301P, X301, X303G, X303P
Model Different:	All these models are identical in the same PCB, layout and electrical circuit, The difference is that: Color screens: X303G, X303P, X303, X303W Black and white screens: X301G, X301P, X301, X301W Screens size 240*320: X303G, X303P, X303, X303W Screens size 128*48: X301G, X301P, X301, X301W Ethernet 1Gbps rate: X303G, X301G Ethernet 100Mbps rate: X303P, X303, X301W, X303W, X301P, X301 5Vdc/1A power supply: X301W, X303W 5Vdc/0.6A power supply: X303G, X301G, X303P, X303, X301P, X301 With WIFI function: X301W, X303W Without WIFI function: X303G, X301G, X303P, X303, X301P, X301
Power supply:	5Vdc/0.6A from AC/DC Adapter 5Vdc/1A from AC/DC Adapter 48Vdc/0.3A from POE
Adapter 1 Model:	TPA-97H050100UW01 Input: 100-240V~ 50/60Hz 0.15A Output: 5Vdc/1A
Adapter 2 Model:	TPA-97H050060UW01 Input: 100-240V~ 50/60Hz 0.15A Output: 5Vdc/0.6A
Hardware version:	/
Software version:	/



2.3. Accessory Equipment information

Equipment Information			
Name	Model	S/N	Manufacturer
IP Phone	X7	JGB28B000005	Fanvil
POE Supply	IGW500-100-P	---	MAIPU
Router	E8820 V3	---	ZTE
Headset	HT202	JCF0900738	Fanvil
Notebook	ThinkBook 14G3 ACL	MP246QDR	Lenovo
Notebook	T460s	---	Lenovo
Cable Information			
Name	Shielded Type	Ferrite Core	Length
Lan Cable	Without	Without	1M





2.4. Description of Test Modes

Test mode	Ping Lan + IP Communicate	AC/DC Adapter	POE Supply
1	■	■	
2			■

Note:

1. ■ is operation mode.

Pre-scan above all test mode, found below test mode which it was worse case mode, So only show the test data for worse case mode on the test report.

Test item	Test mode (Worse case mode)
Conducted emission	1
Radiated emission	1

Note: 1. "N/A" is no application.





2.5. Measurement Instruments List

Radiated emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-1013	Jan. 12, 2023
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-647	Dec. 23, 2022
3	Spectrum Analyzer	R&S	FSU26	100105	Dec. 23, 2022
4	Spectrum Analyzer	R&S	FSV40-N	101331	Mar. 15, 2023
5	Pre-Amplifier	SONOMA	310	186194	Dec. 23, 2022
6	Low Noise Pre-Amplifier	EMCI	EMC051835	980075	Dec. 23, 2022
7	Test Receiver	R&S	ESCI7	100967	Dec. 23, 2022
8	3m chamber 2	Frankonia	EE025	/	Oct. 23, 2024
9	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	116410	Dec. 23, 2022

Radiated emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-759	Mar. 30, 2023
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-647	Dec. 23, 2022
3	Test Receiver	Keysight	N9038A	MY56400071	Dec. 23, 2022
4	Broadband Prempplier	SCHWARZBECK	BBV9743B	259	Dec. 23, 2022
5	Mirowave Broadband Amplifier	SCHWARZBECK	BBV9718C	111	Dec. 23, 2022
6	3m chamber 3	YIHENG	EE106	/	Sep. 09, 2023
7	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	116410	Dec. 23, 2022

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	LISN	R&S	ENV216	101112	Dec. 23, 2022
2	LISN	R&S	ENV216	101113	Dec. 23, 2022
3	EMI Test Receiver	R&S	ESCS30	100353	Dec. 23, 2022
4	ISN CAT6	Schwarzbeck	NTFM 8158	CAT6-8158-0046	Dec. 23, 2022
5	ISN CAT5	Schwarzbeck	NTFM 8158	CAT5-8158-0046	Dec. 23, 2022
6	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	116410	Dec. 23, 2022

Note: The Cal. Interval was one year.

3. EMC EMISSION TEST

3.1. Radiated Emission

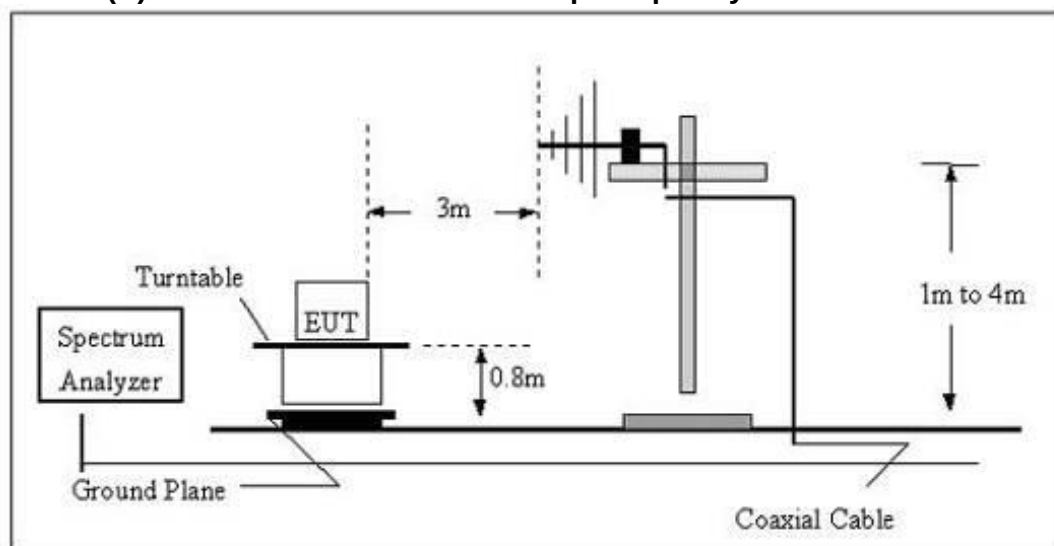
LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.109:

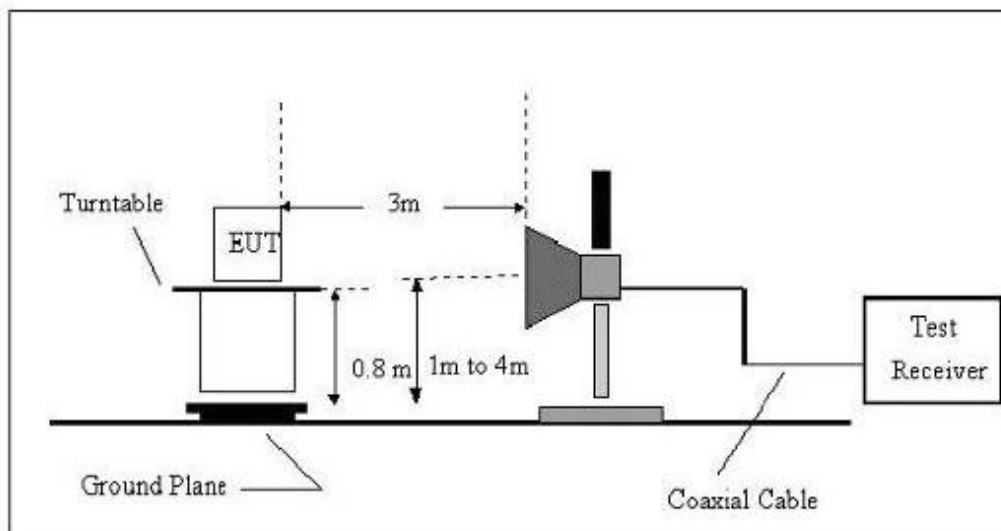
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

(A) Radiated Emission Test Set-Up Frequency below 1 GHz



(B) Radiated Emission Test Set-Up Frequency above 1GHz



TEST PROCEDURE

1. The EUT was tested according to ANSI C63.4:2014.
2. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna.
5. Use the following spectrum analyzer settings
Span shall wide enough to fully capture the emission being measured;
- 1) Below 1GHz, RBW=120KHz, VBW=300KHz, Sweep=auto, Detector function=peak, Trace=max hold;
- 2) If the emission level of the EUT measured by the peak detectors 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- 3) Above 1GHz, RBW=1MHz, VBW=3MHz

TEST MODE

Please refer to the clause 2.4

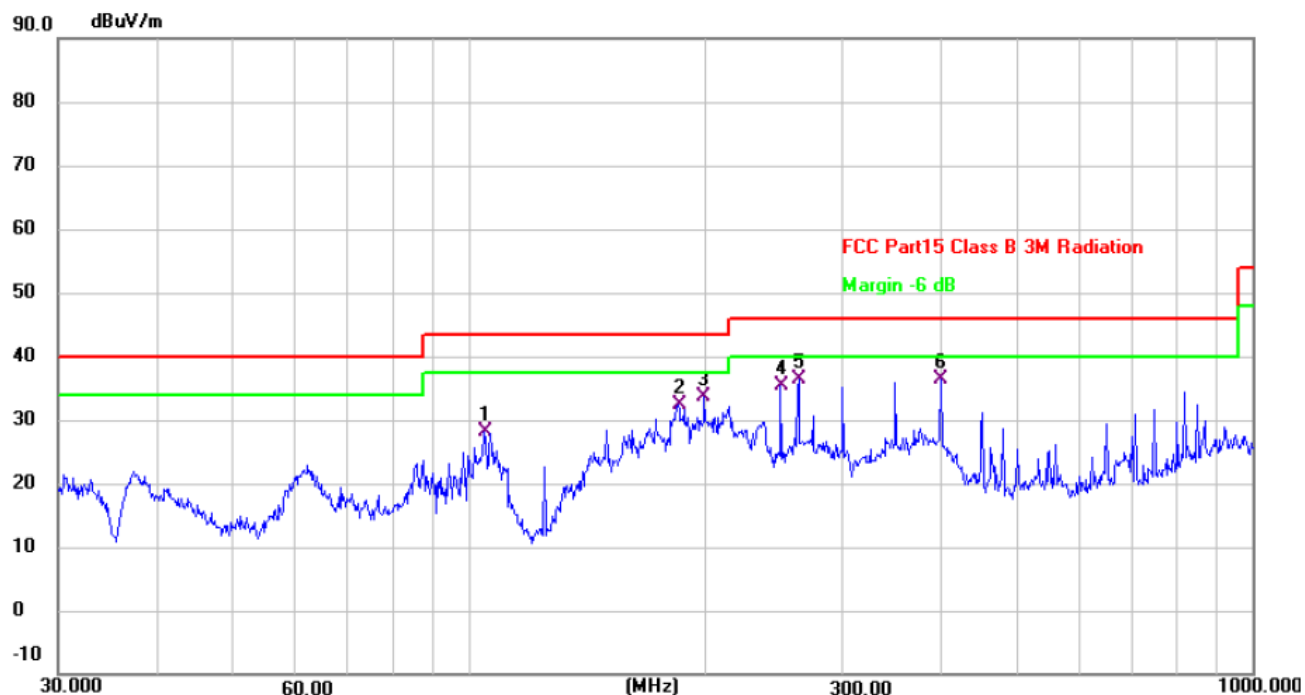
TEST RESULTS

Note: The EUT was pre-scanned the frequency band (6GHz~26GHz), found the radiated level (Background noise) lower than the limit, so don't show on the report.



30MHz-1GHz

Test mode	1	Polarization	Horizontal
Test Model	X301G		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	104.9032	48.77	-20.52	28.25	43.50	-15.25	QP
2	185.1378	51.50	-19.18	32.32	43.50	-11.18	QP
3	199.9855	53.96	-20.42	33.54	43.50	-9.96	QP
4	250.3011	54.04	-18.58	35.46	46.00	-10.54	QP
5	263.8190	54.61	-18.21	36.40	46.00	-9.60	QP
6 *	400.4318	51.25	-14.83	36.42	46.00	-9.58	QP

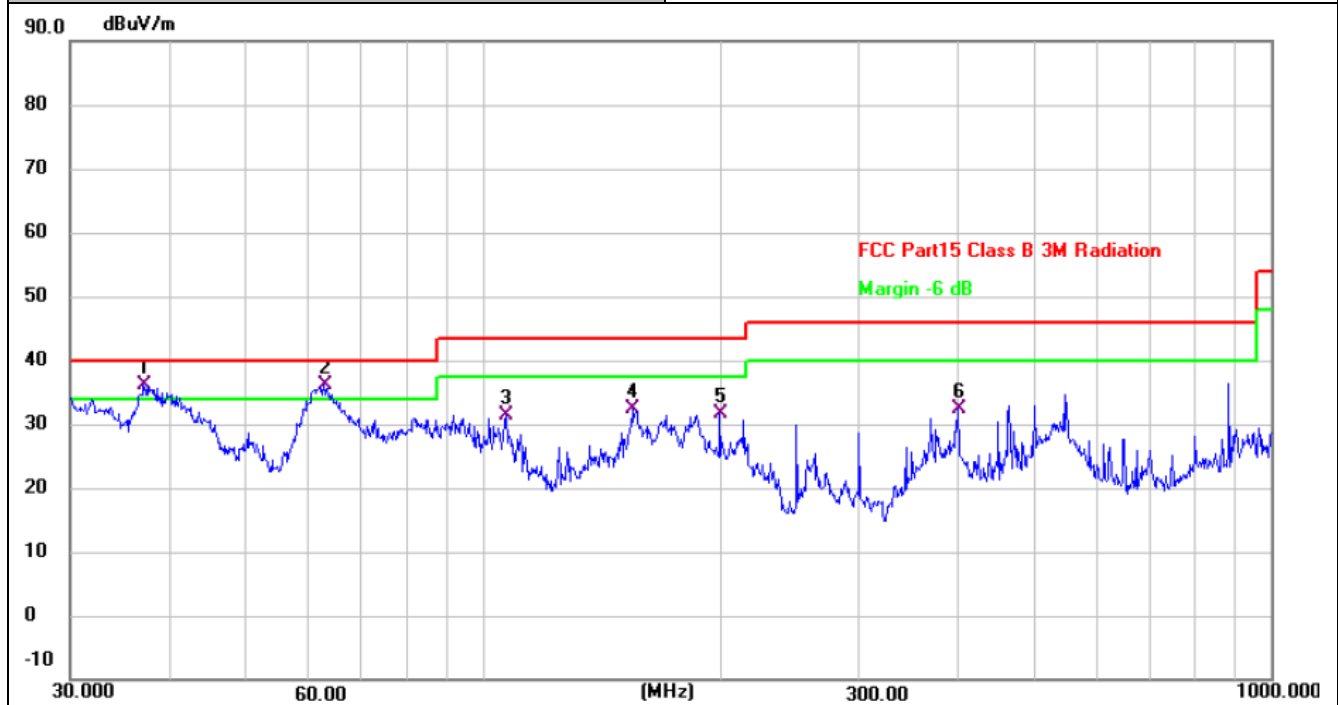
Remark:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value



Test mode	1	Polarization	Vertical
Test Model	X301G		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	37.1550	53.96	-17.76	36.20	40.00	-3.80	QP
2 !	62.8708	55.27	-19.13	36.14	40.00	-3.86	QP
3	107.1337	51.76	-20.38	31.38	43.50	-12.12	QP
4	154.8204	49.09	-16.69	32.40	43.50	-11.10	QP
5	199.9856	52.07	-20.42	31.65	43.50	-11.85	QP
6	400.4319	47.11	-14.83	32.28	46.00	-13.72	QP

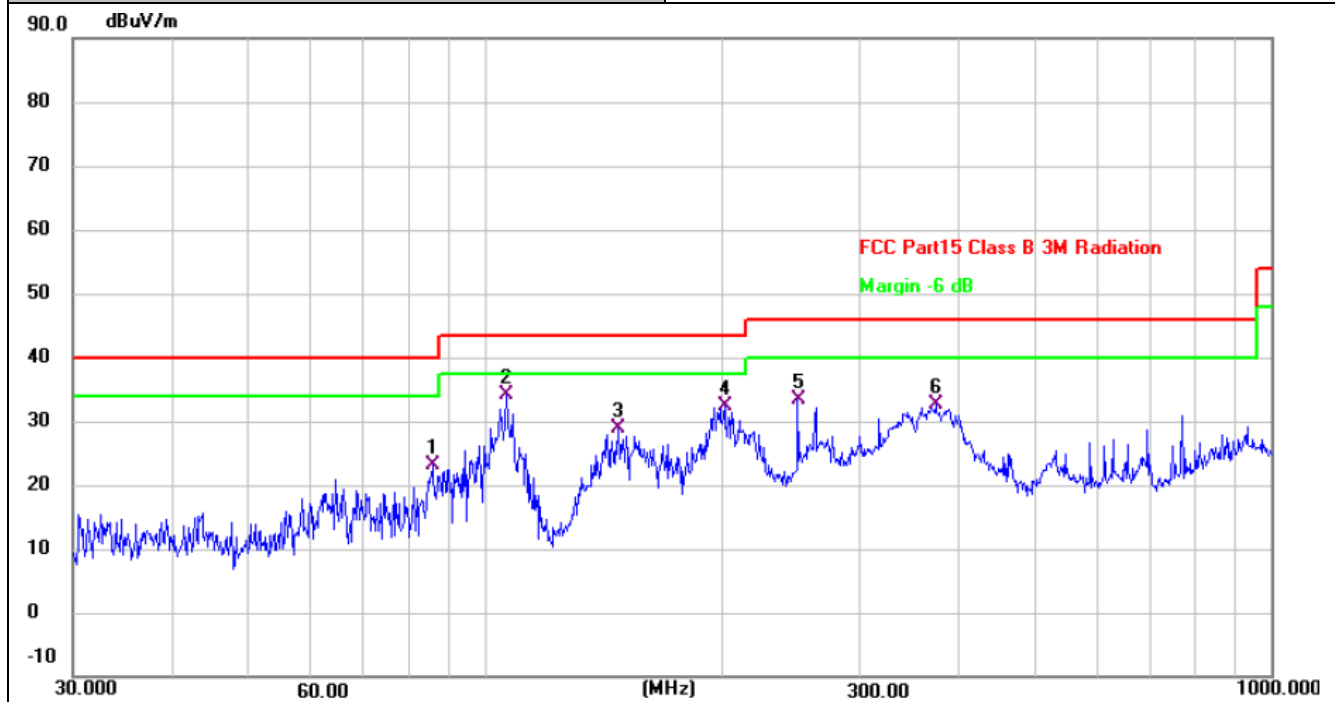
Remark:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value



Test mode	1	Polarization	Horizontal
Test Model	X301W		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	85.8983	45.06	-21.87	23.19	40.00	-16.81	QP
2 *	106.7587	54.59	-20.41	34.18	43.50	-9.32	QP
3	147.9214	45.49	-16.51	28.98	43.50	-14.52	QP
4	202.1004	52.72	-20.34	32.38	43.50	-11.12	QP
5	250.3011	52.00	-18.58	33.42	46.00	-12.58	QP
6	374.6225	48.07	-15.41	32.66	46.00	-13.34	QP

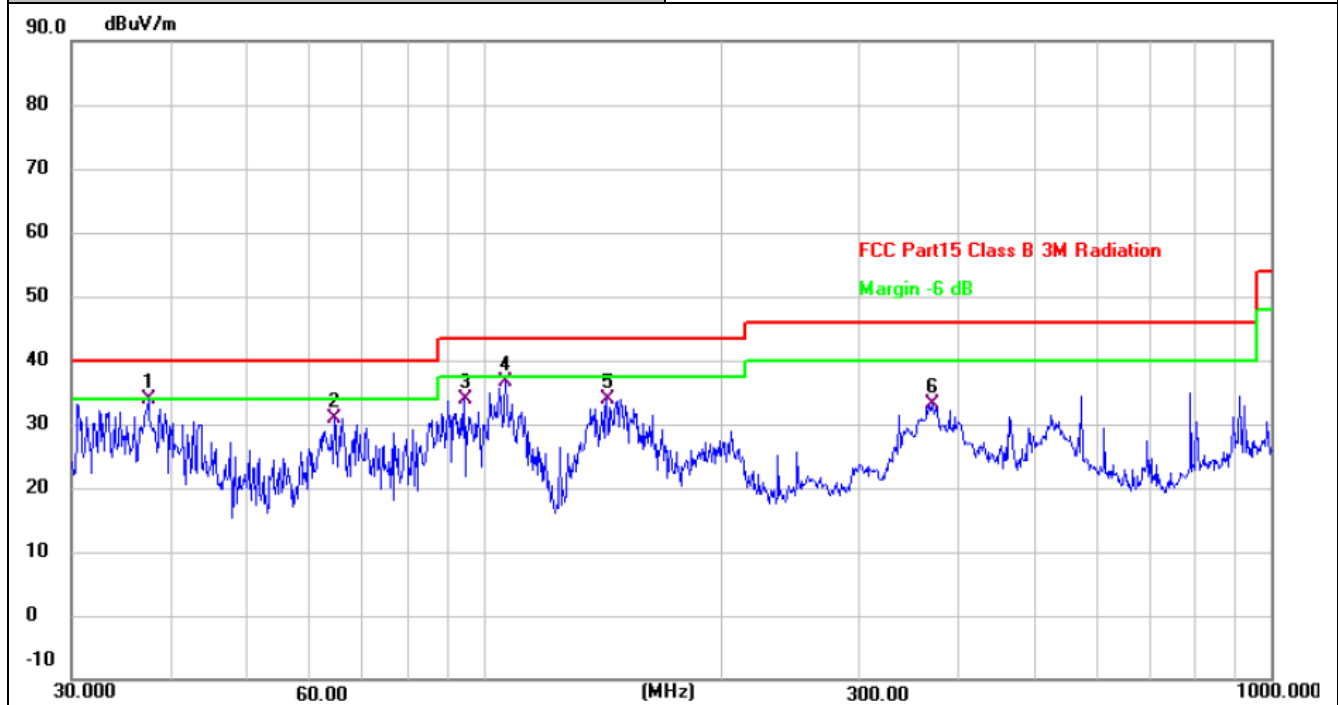
Remark:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value



Test mode	1	Polarization	Vertical
Test Model	X301W		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	37.5479	51.69	-17.69	34.00	40.00	-6.00	QP
2	64.6594	50.41	-19.47	30.94	40.00	-9.06	QP
3	94.4284	55.31	-21.41	33.90	43.50	-9.60	QP
4	106.7587	57.12	-20.41	36.71	43.50	-6.79	QP
5	143.3261	50.92	-17.09	33.83	43.50	-9.67	QP
6	372.0045	48.56	-15.47	33.09	46.00	-12.91	QP

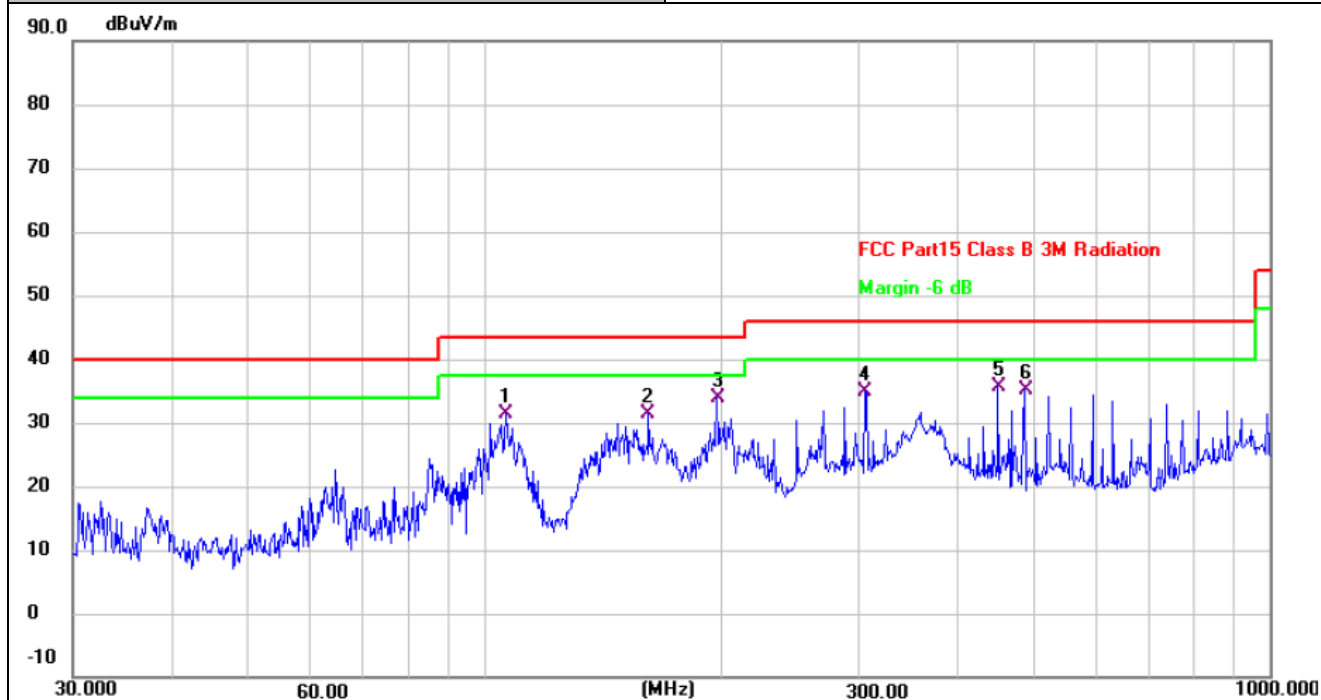
Remark:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value



Test mode	1	Polarization	Horizontal
Test Model	X303W		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	106.7587	51.79	-20.41	31.38	43.50	-12.12	QP
2	162.0413	48.75	-17.29	31.46	43.50	-12.04	QP
3 *	197.8928	54.16	-20.24	33.92	43.50	-9.58	QP
4	305.6800	51.80	-17.04	34.76	46.00	-11.24	QP
5	451.1350	49.00	-13.39	35.61	46.00	-10.39	QP
6	487.3150	47.98	-12.85	35.13	46.00	-10.87	QP

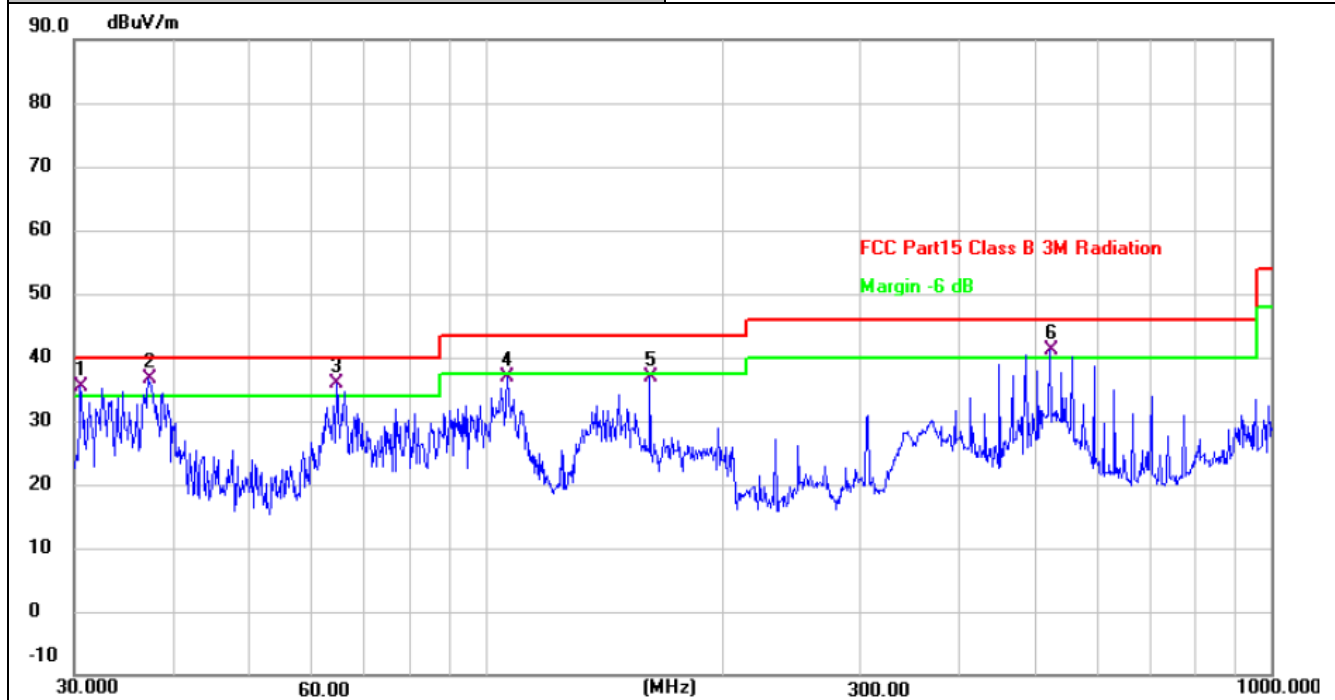
Remark:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value



Test mode	1	Polarization	Vertical
Test Model	X303W		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 !	30.5306	53.62	-18.22	35.40	40.00	-4.60	QP
2 *	37.2855	54.39	-17.74	36.65	40.00	-3.35	QP
3 !	64.6594	55.37	-19.47	35.90	40.00	-4.10	QP
4	106.7587	57.18	-20.41	36.77	43.50	-6.73	QP
5	162.0414	54.09	-17.29	36.80	43.50	-6.70	QP
6 !	522.7180	53.40	-12.22	41.18	46.00	-4.82	QP

Remark:

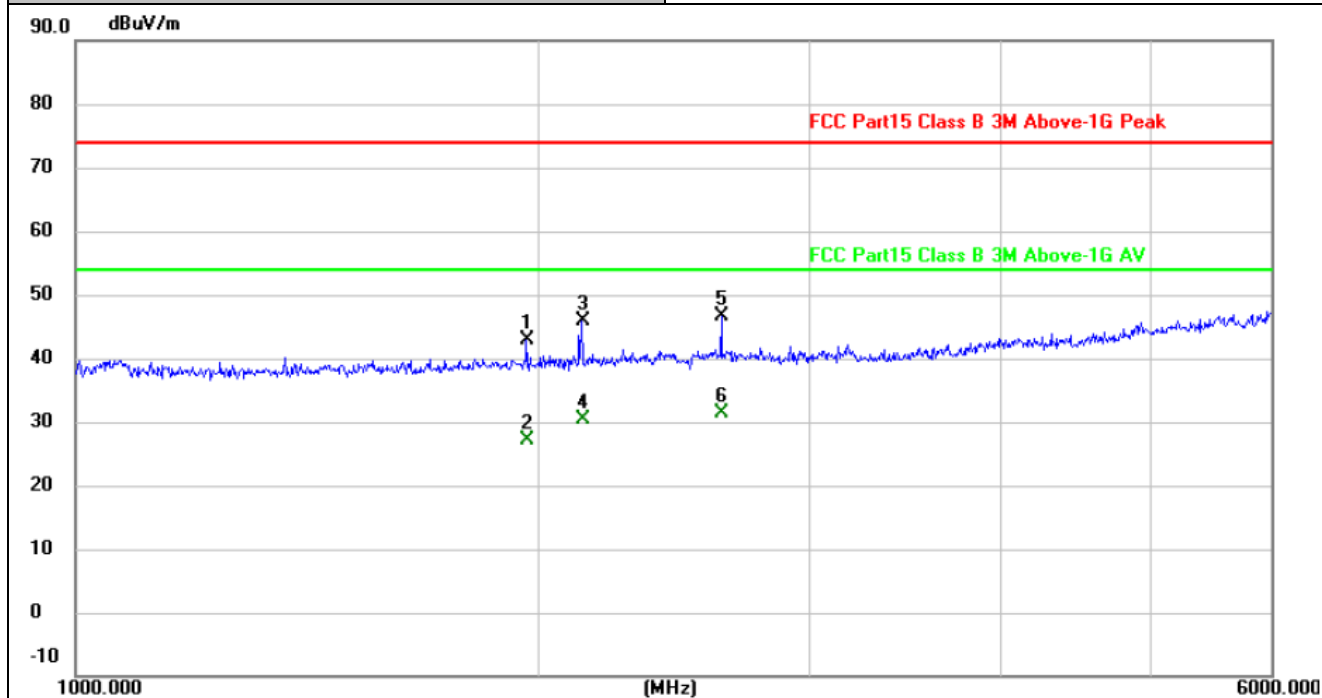
1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2. Margin value = Level -Limit value



1GHz-6GHz

Test mode	1	Polarization	Horizontal
Test Model	X301G		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1965.002	52.53	-9.65	42.88	74.00	-31.12	peak
2	1965.002	36.79	-9.65	27.14	54.00	-26.86	AVG
3	2133.821	54.68	-8.83	45.85	74.00	-28.15	peak
4	2133.821	39.29	-8.83	30.46	54.00	-23.54	AVG
5	2631.490	53.73	-7.19	46.54	74.00	-27.46	peak
6 *	2631.490	38.46	-7.19	31.27	54.00	-22.73	AVG

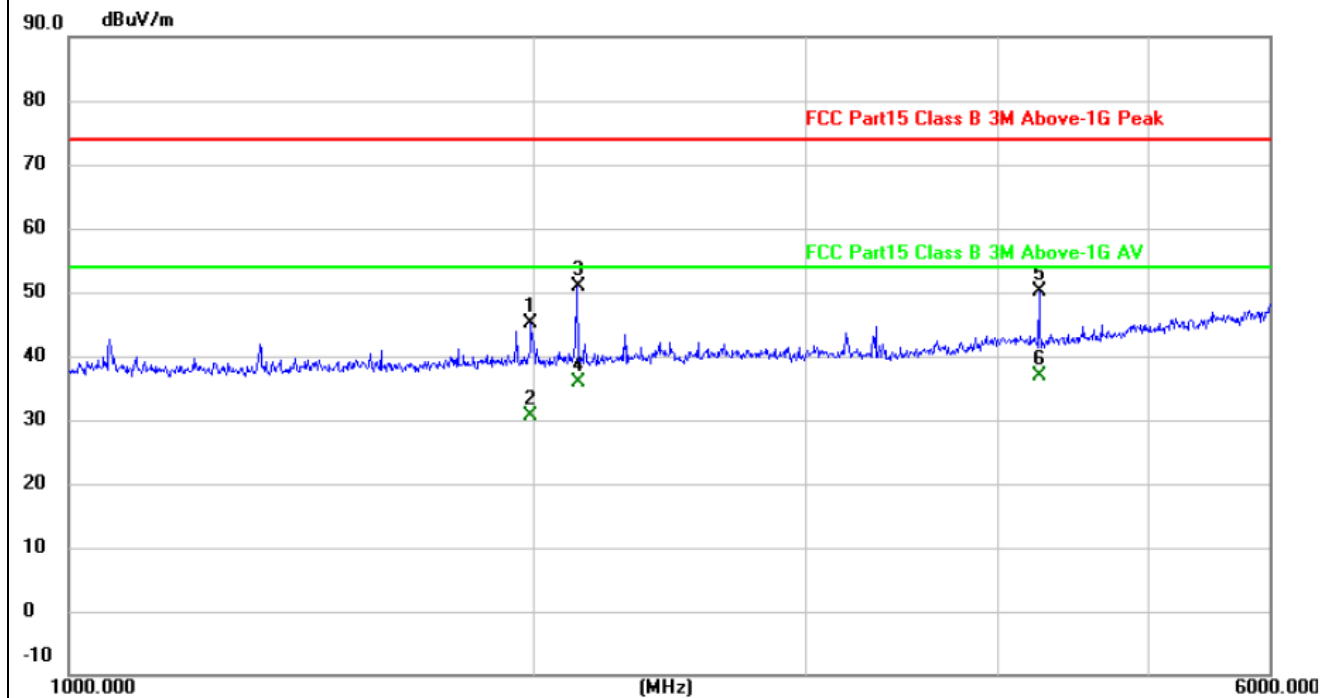
Remark:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value



Test mode	1	Polarization	Vertical
Test Model	X301G		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1993.371	54.54	-9.45	45.09	74.00	-28.91	peak
2	1993.371	40.02	-9.45	30.57	54.00	-23.43	AVG
3	2133.821	59.61	-8.83	50.78	74.00	-23.22	peak
4	2133.821	44.70	-8.83	35.87	54.00	-18.13	AVG
5	4253.498	54.22	-4.07	50.15	74.00	-23.85	peak
6 *	4253.498	40.94	-4.07	36.87	54.00	-17.13	AVG

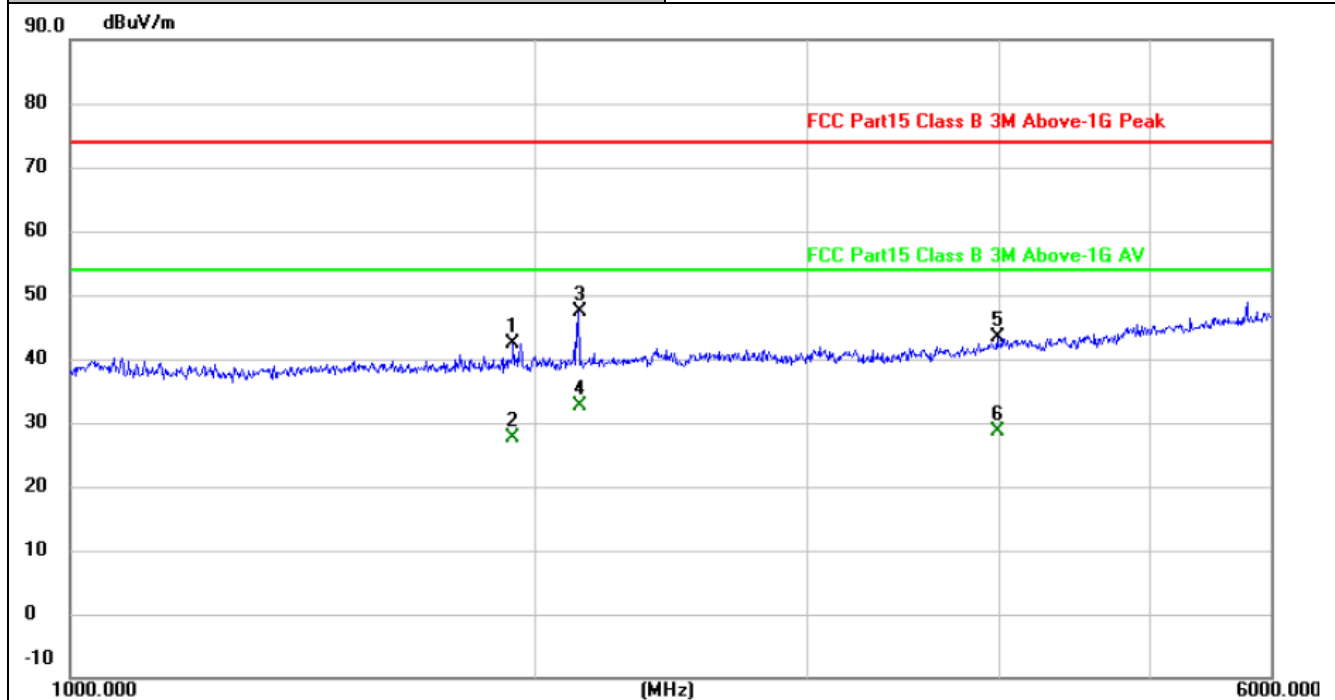
Remark:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value



Test mode	1	Polarization	Horizontal
Test Model	X301W		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1937.036	52.29	-9.84	42.45	74.00	-31.55	peak
2	1937.036	37.41	-9.84	27.57	54.00	-26.43	AVG
3	2133.821	56.20	-8.83	47.37	74.00	-26.63	peak
4 *	2133.821	41.57	-8.83	32.74	54.00	-21.26	AVG
5	3987.794	47.88	-4.46	43.42	74.00	-30.58	peak
6	3987.794	33.10	-4.46	28.64	54.00	-25.36	AVG

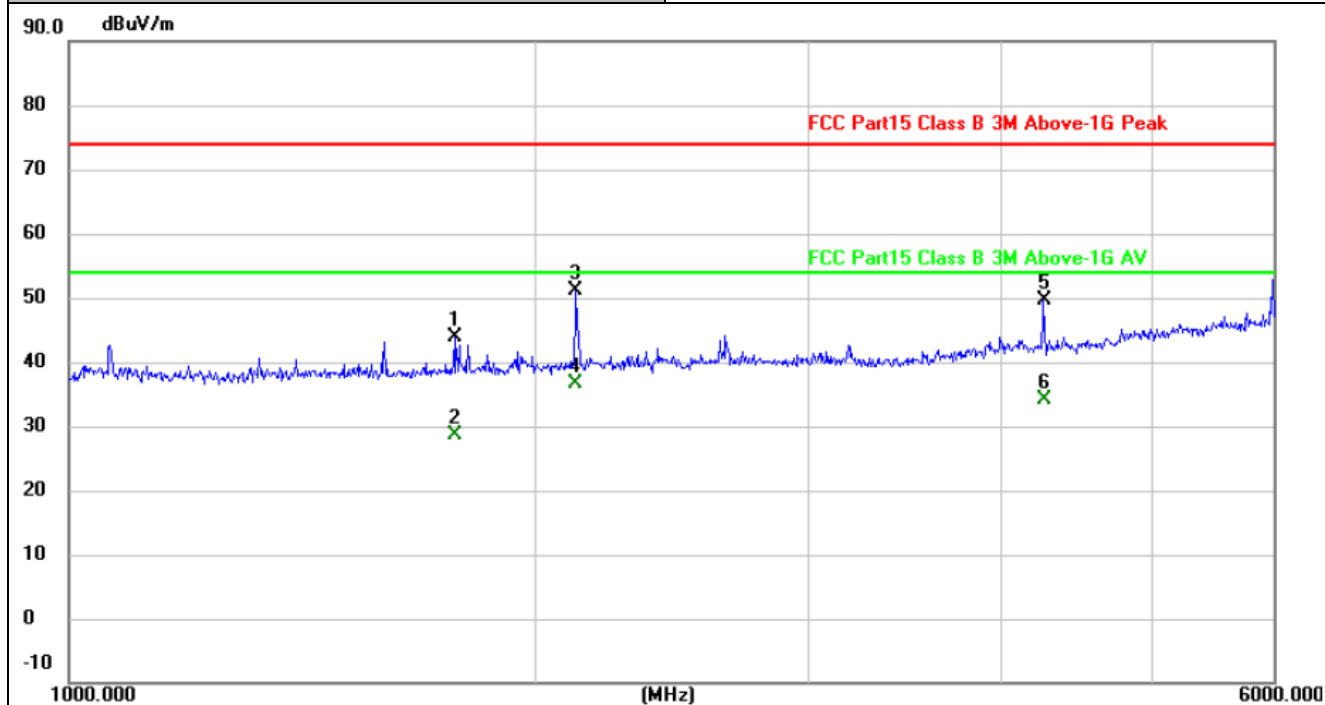
Remark:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value



Test mode	1	Polarization	Vertical
Test Model	X301W		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1774.224	54.69	-10.88	43.81	74.00	-30.19	peak
2	1774.224	39.51	-10.88	28.63	54.00	-25.37	AVG
3	2126.188	59.94	-8.85	51.09	74.00	-22.91	peak
4 *	2126.188	45.59	-8.85	36.74	54.00	-17.26	AVG
5	4261.126	53.72	-4.06	49.66	74.00	-24.34	peak
6	4261.126	38.18	-4.06	34.12	54.00	-19.88	AVG

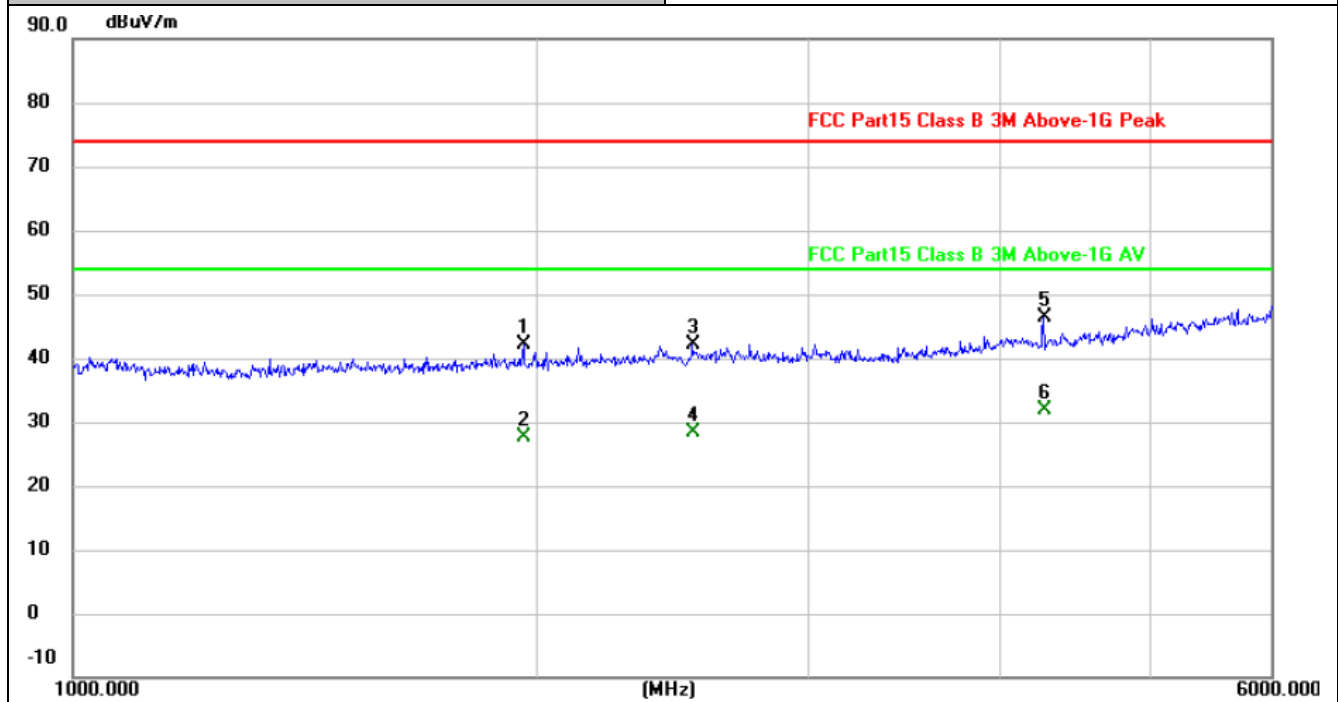
Remark:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value



Test mode	1	Polarization	Horizontal
Test Model	X303W		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1961.484	51.80	-9.66	42.14	74.00	-31.86	peak
2	1961.484	37.30	-9.66	27.64	54.00	-26.36	AVG
3	2525.249	49.38	-7.24	42.14	74.00	-31.86	peak
4	2525.249	35.65	-7.24	28.41	54.00	-25.59	AVG
5	4268.768	50.38	-4.05	46.33	74.00	-27.67	peak
6 *	4268.768	35.92	-4.05	31.87	54.00	-22.13	AVG

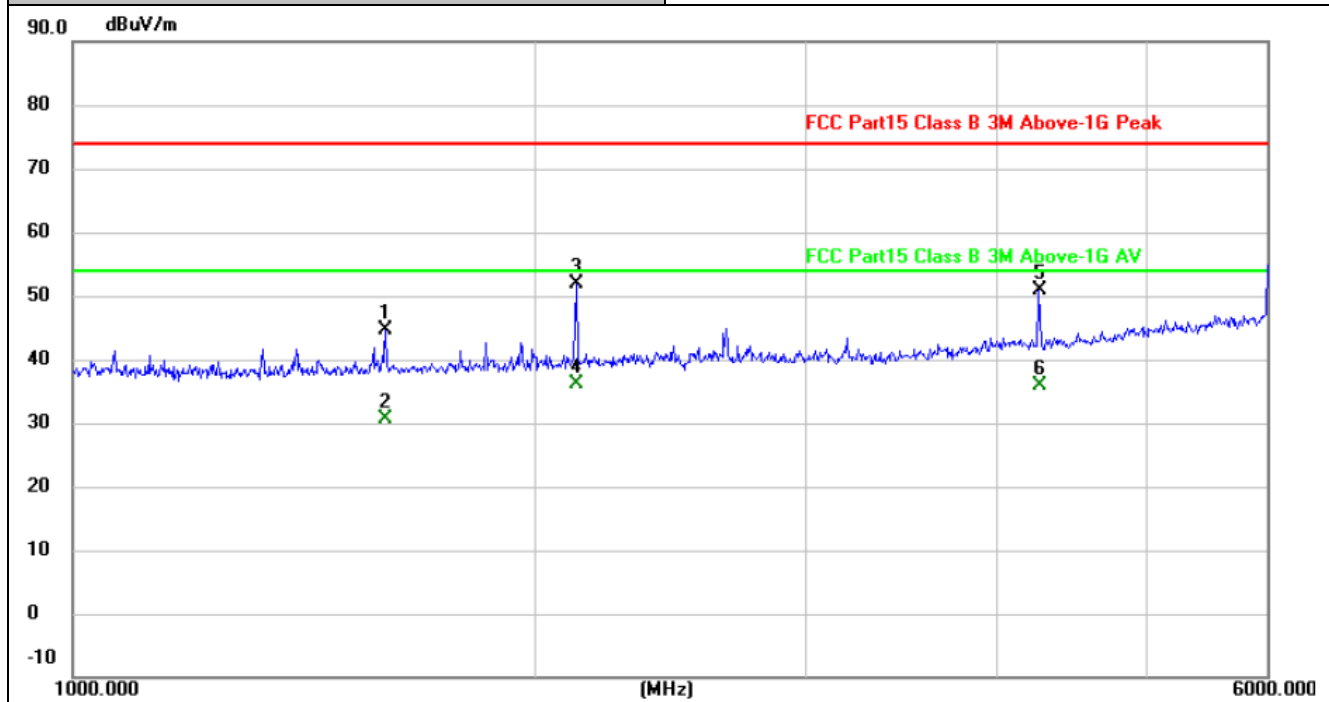
Remark:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value



Test mode	1	Polarization	Vertical
Test Model	X303W		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1599.100	56.09	-11.40	44.69	74.00	-29.31	peak
2	1599.100	41.94	-11.40	30.54	54.00	-23.46	AVG
3	2130.001	60.64	-8.85	51.79	74.00	-22.21	peak
4 *	2130.001	44.99	-8.85	36.14	54.00	-17.86	AVG
5	4261.126	54.87	-4.06	50.81	74.00	-23.19	peak
6	4261.126	39.84	-4.06	35.78	54.00	-18.22	AVG

Remark:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value

3.2. Conducted Emission (AC Mains)

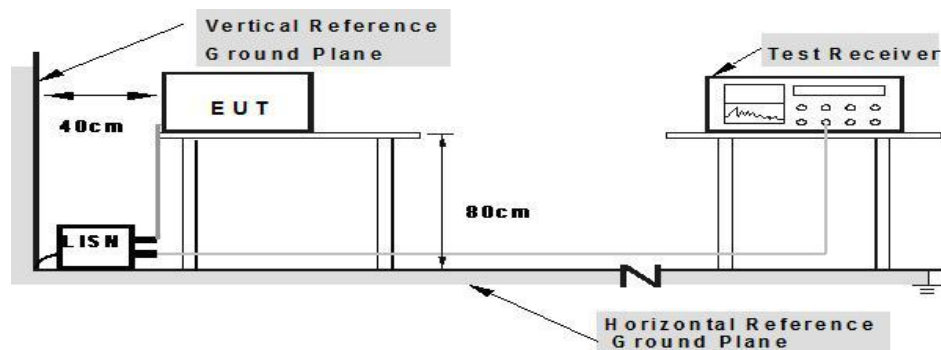
LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.107:

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80
from other units and other metal planes

TEST PROCEDURE

1. The EUT was setup according to ANSI C63.4-2014.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

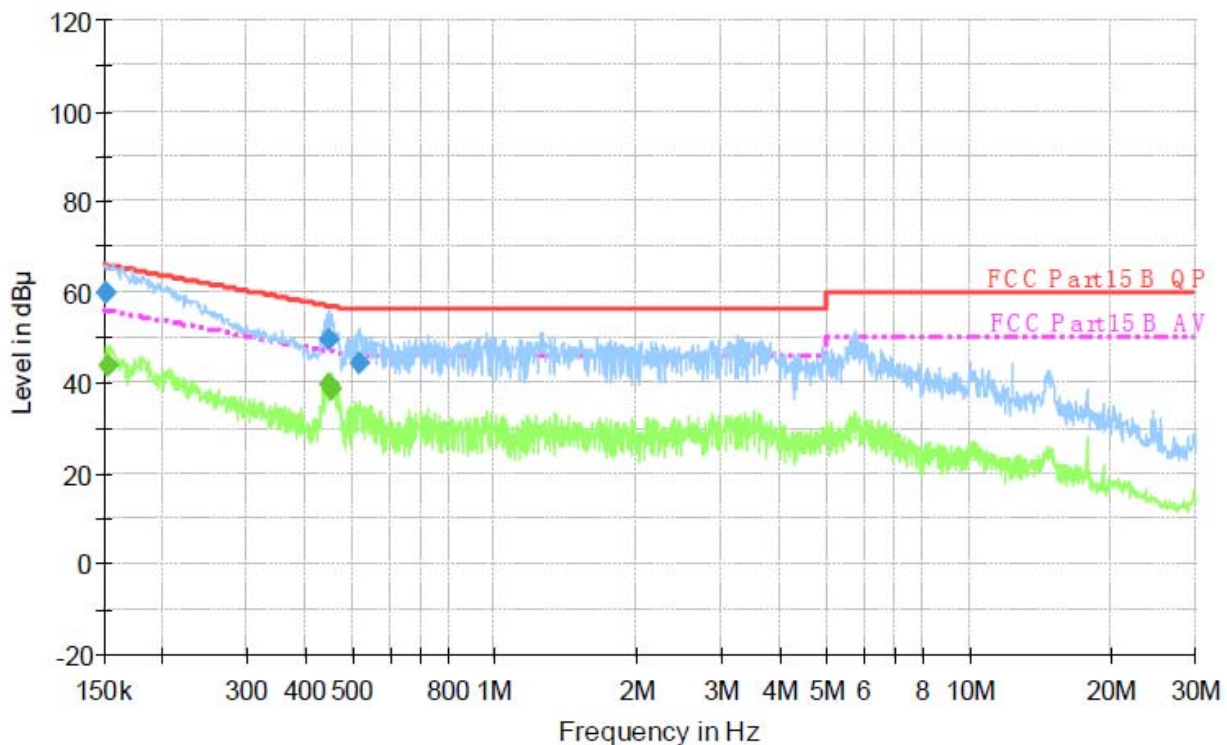
TEST MODE

Please refer to the clause 2.4

TEST RESULTS



Test mode	1	Terminal	Line
Test Model	X301G		



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBu V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBu V)	Comment
0.151200	60.0	1000.00	9.000	On	L1	9.7	5.9	65.9	
0.446060	49.5	1000.00	9.000	On	L1	9.7	7.4	56.9	
0.517060	44.3	1000.00	9.000	On	L1	9.7	11.7	56.0	

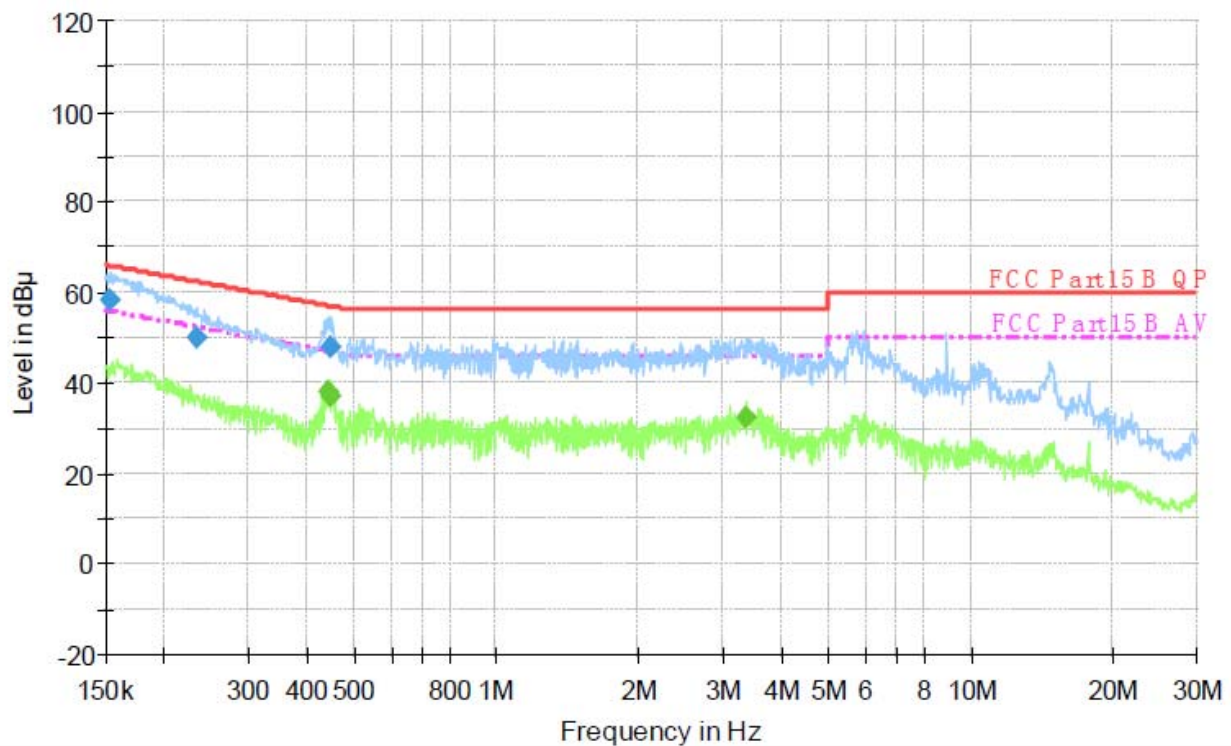
Final Measurement Detector 2

Frequency (MHz)	Average (dBu V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBu V)	Comment
0.153640	43.9	1000.00	9.000	On	L1	9.7	11.9	55.8	
0.446060	39.8	1000.00	9.000	On	L1	9.7	7.1	46.9	
0.451440	38.8	1000.00	9.000	On	L1	9.7	8.0	46.8	

Emission Level= Read Level+ Correct Factor



Test mode	1	Terminal	Neutral
Test Model	X301G		



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.154250	58.1	1000.00	9.000	On	N	10.0	7.7	65.8	
0.233630	50.0	1000.00	9.000	On	N	10.0	12.3	62.3	
0.449640	48.1	1000.00	9.000	On	N	10.0	8.8	56.9	

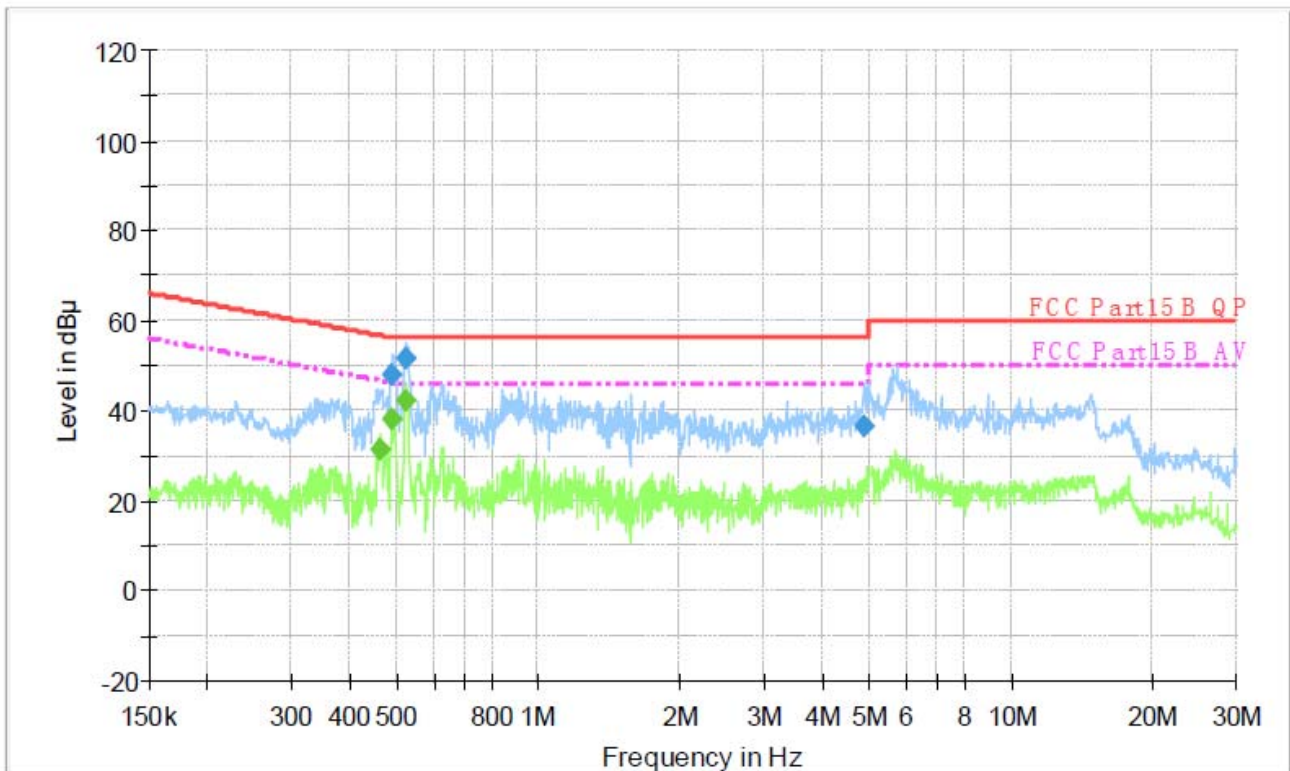
Final Measurement Detector 2

Frequency (MHz)	Average (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.440750	38.2	1000.00	9.000	On	N	10.0	8.8	47.0	
0.449640	37.1	1000.00	9.000	On	N	10.0	9.8	46.9	
3.375880	32.3	1000.00	9.000	On	N	10.0	13.7	46.0	

Emission Level= Read Level+ Correct Factor



Test mode	1	Terminal	Line
Test Model	X301W		



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.492880	47.9	1000.00	9.000	On	L1	9.7	8.2	56.1	
0.523290	51.7	1000.00	9.000	On	L1	9.7	4.3	56.0	
4.874040	36.4	1000.00	9.000	On	L1	9.7	19.6	56.0	

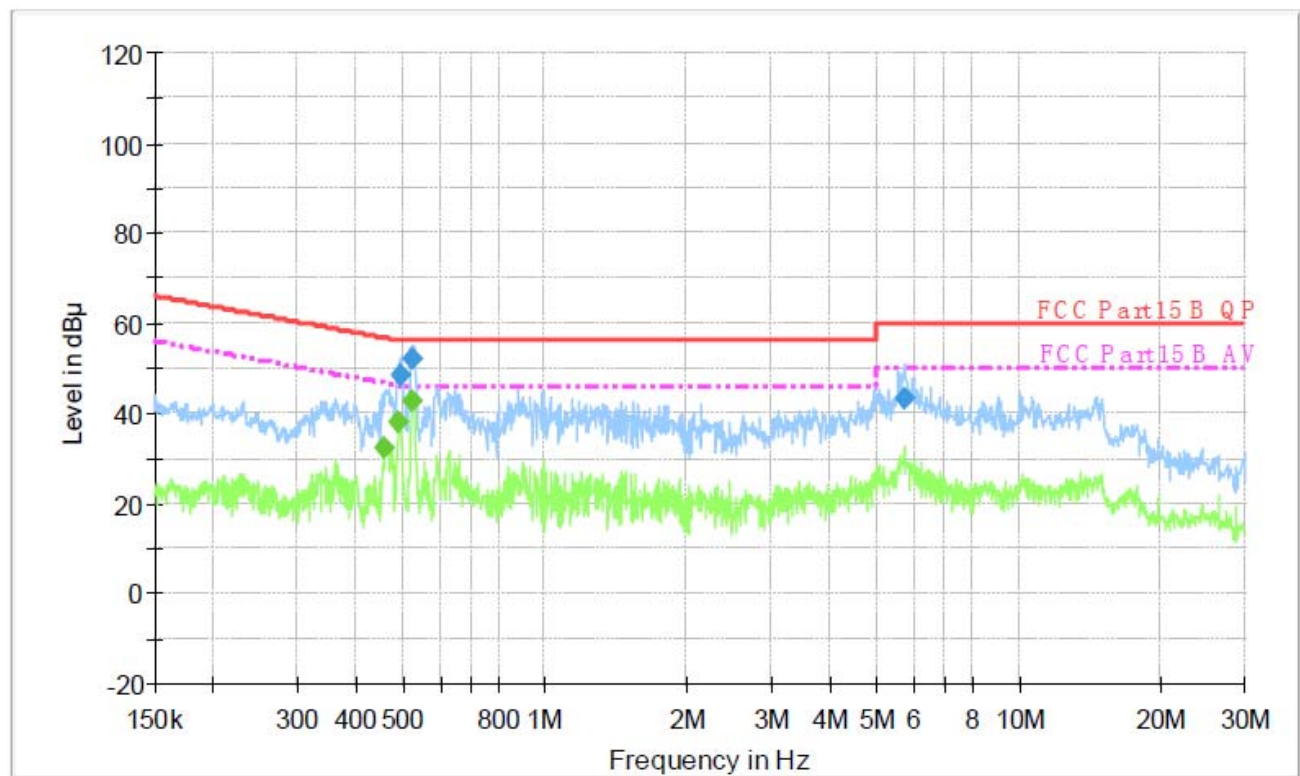
Final Measurement Detector 2

Frequency (MHz)	Average (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.462380	31.5	1000.00	9.000	On	L1	9.7	15.1	46.6	
0.492880	38.3	1000.00	9.000	On	L1	9.7	7.8	46.1	
0.527490	42.4	1000.00	9.000	On	L1	9.7	3.6	46.0	

Emission Level= Read Level+ Correct Factor



Test mode	1	Terminal	Neutral
Test Model	X301W		



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBu V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBu V)	Comment
0.494850	48.6	1000.00	9.000	On	N	10.0	7.5	56.1	
0.527490	52.1	1000.00	9.000	On	N	10.0	3.9	56.0	
5.717910	43.2	1000.00	9.000	On	N	10.0	16.8	60.0	

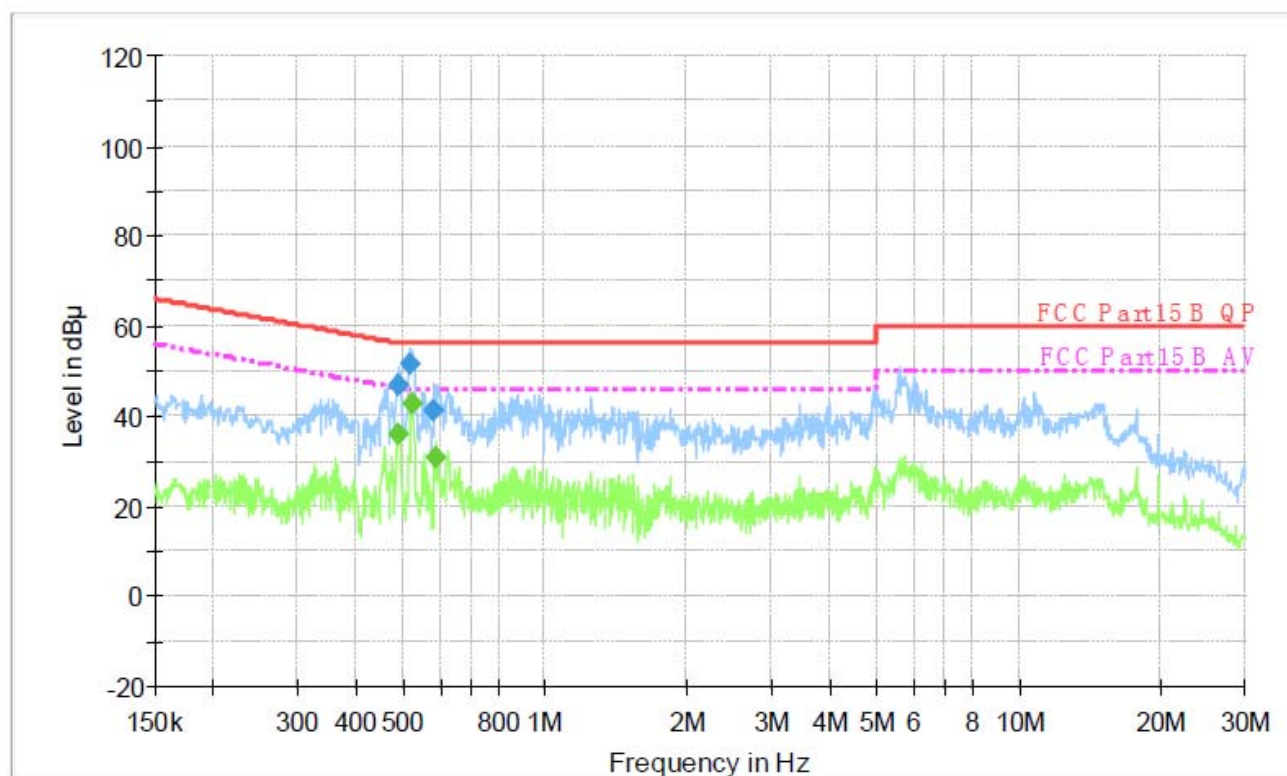
Final Measurement Detector 2

Frequency (MHz)	Average (dBu V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBu V)	Comment
0.460540	32.3	1000.00	9.000	On	N	10.0	14.4	46.7	
0.492880	38.3	1000.00	9.000	On	N	10.0	7.8	46.1	
0.527490	42.9	1000.00	9.000	On	N	10.0	3.1	46.0	

Emission Level= Read Level+ Correct Factor



Test mode	1	Terminal	Line
Test Model	X303W		



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.492880	46.8	1000.00	9.000	On	L1	9.7	9.3	56.1	
0.519130	51.7	1000.00	9.000	On	L1	9.7	4.3	56.0	
0.585180	41.2	1000.00	9.000	On	L1	9.7	14.8	56.0	

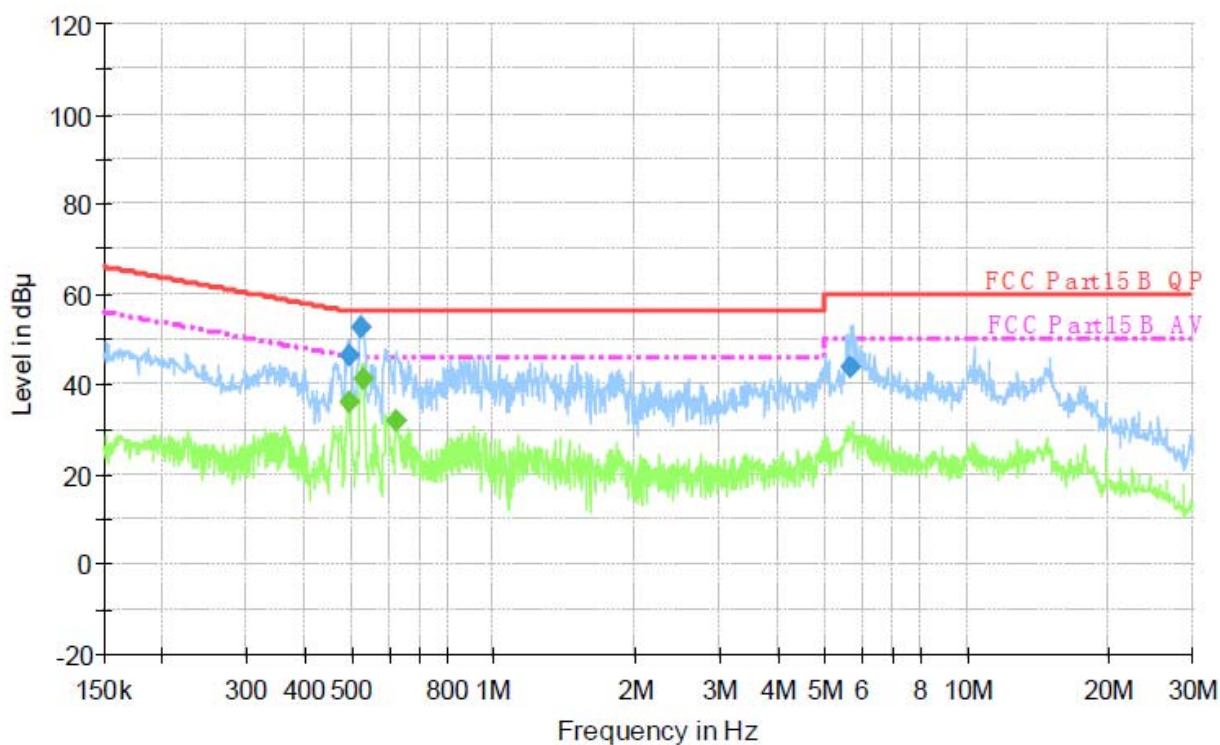
Final Measurement Detector 2

Frequency (MHz)	Average (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.488960	36.1	1000.00	9.000	On	L1	9.7	10.1	46.2	
0.525380	42.6	1000.00	9.000	On	L1	9.7	3.4	46.0	
0.589870	30.8	1000.00	9.000	On	L1	9.7	15.2	46.0	

Emission Level= Read Level+ Correct Factor



Test mode	1	Terminal	Neutral
Test Model	X303W		



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBu V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBu V)	Comment
0.494850	46.4	1000.00	9.000	On	N	10.0	9.7	56.1	
0.525380	52.8	1000.00	9.000	On	N	10.0	3.2	56.0	
5.695130	44.0	1000.00	9.000	On	N	10.0	16.0	60.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBu V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBu V)	Comment
0.494850	35.8	1000.00	9.000	On	N	10.0	10.3	46.1	
0.529600	41.4	1000.00	9.000	On	N	10.0	4.6	46.0	
0.626270	31.7	1000.00	9.000	On	N	10.0	14.3	46.0	

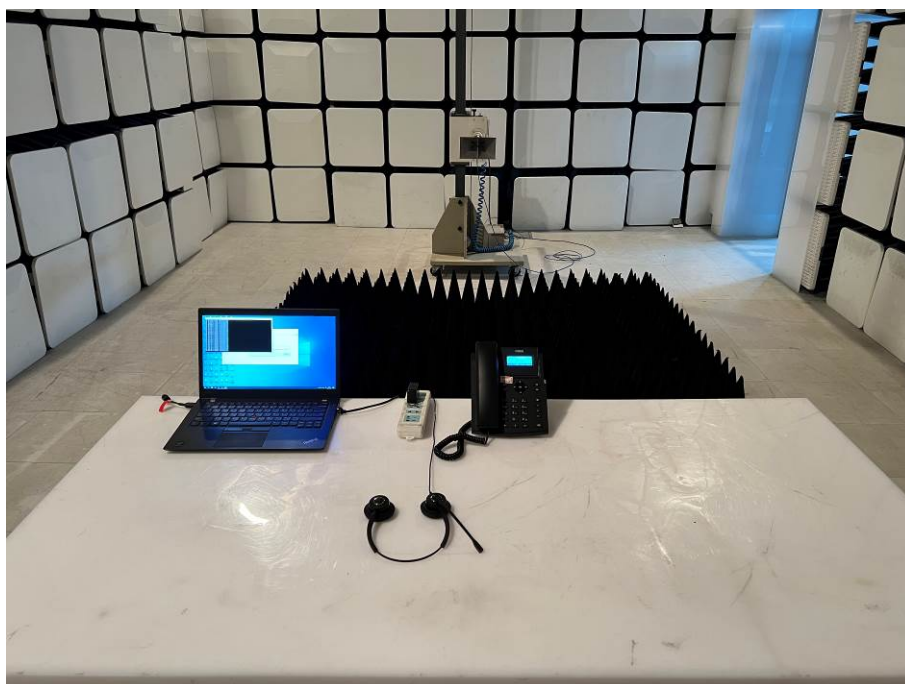
Emission Level= Read Level+ Correct Factor

4. EUT TEST PHOTOS

X301G Radiated Emission

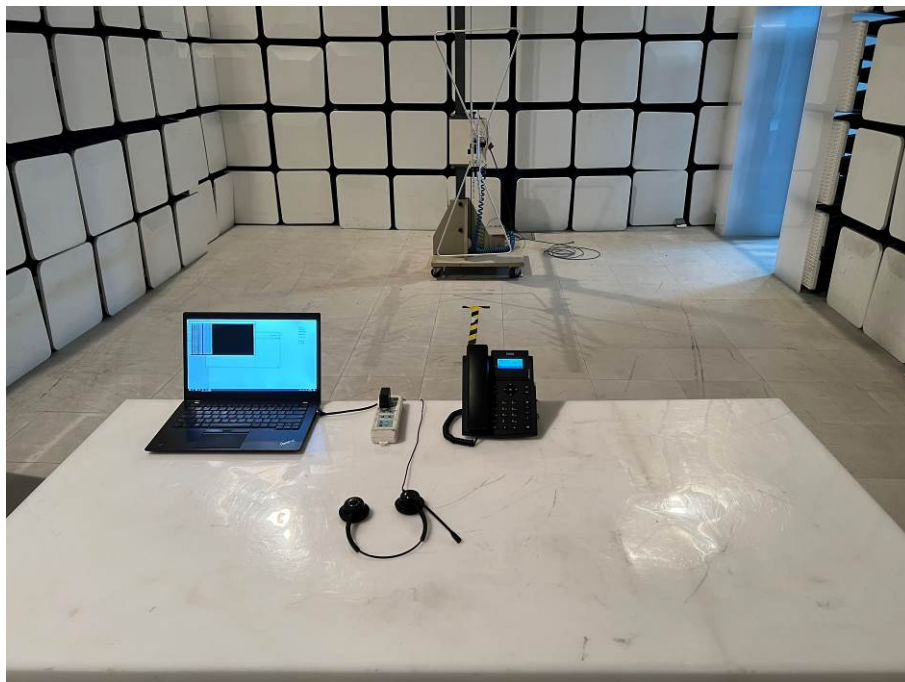


Below 1G

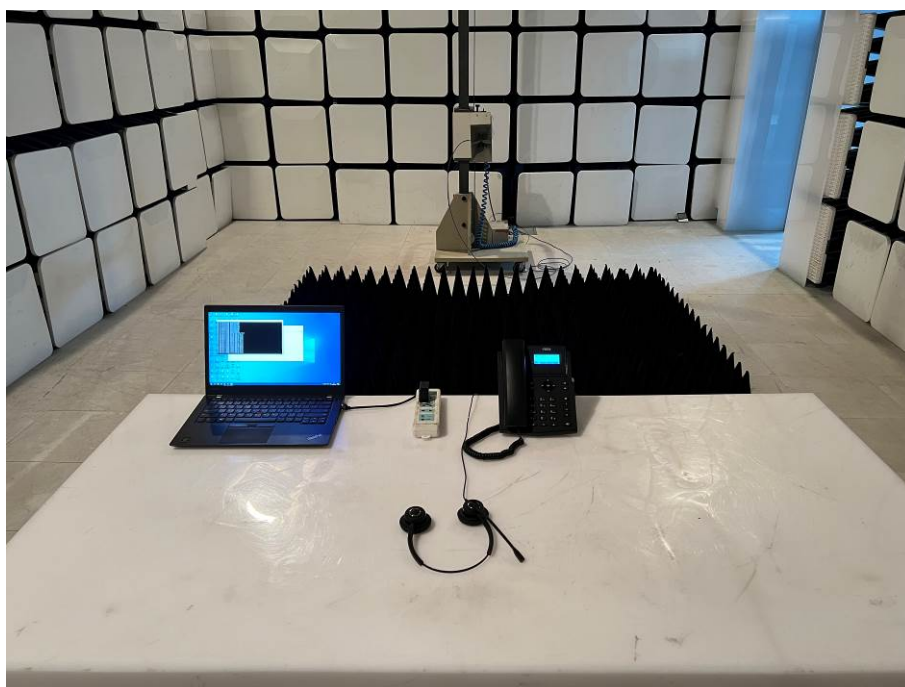


Above 1G

X301W Radiated Emission

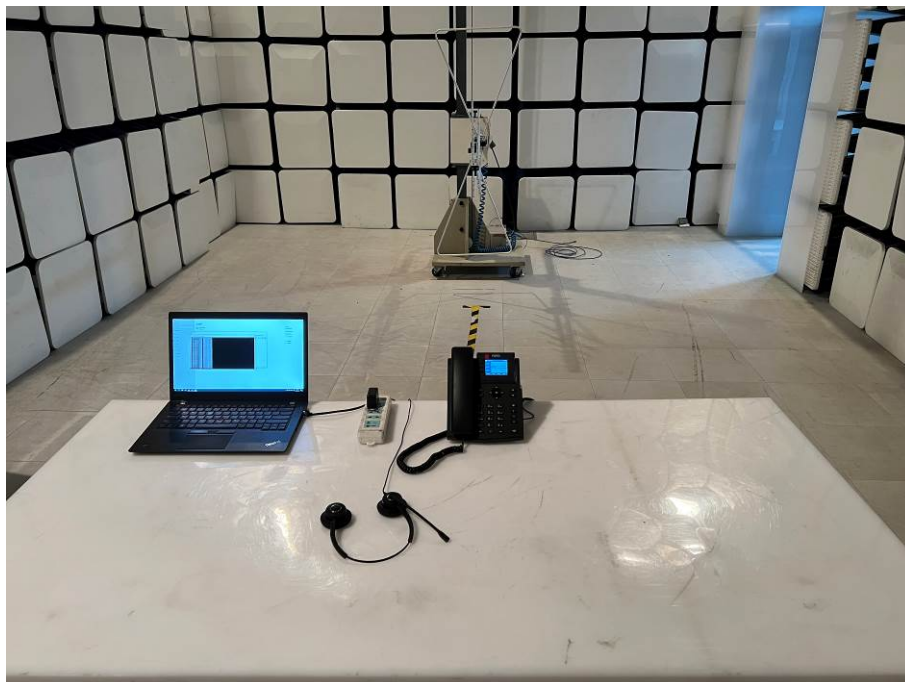


Below 1G

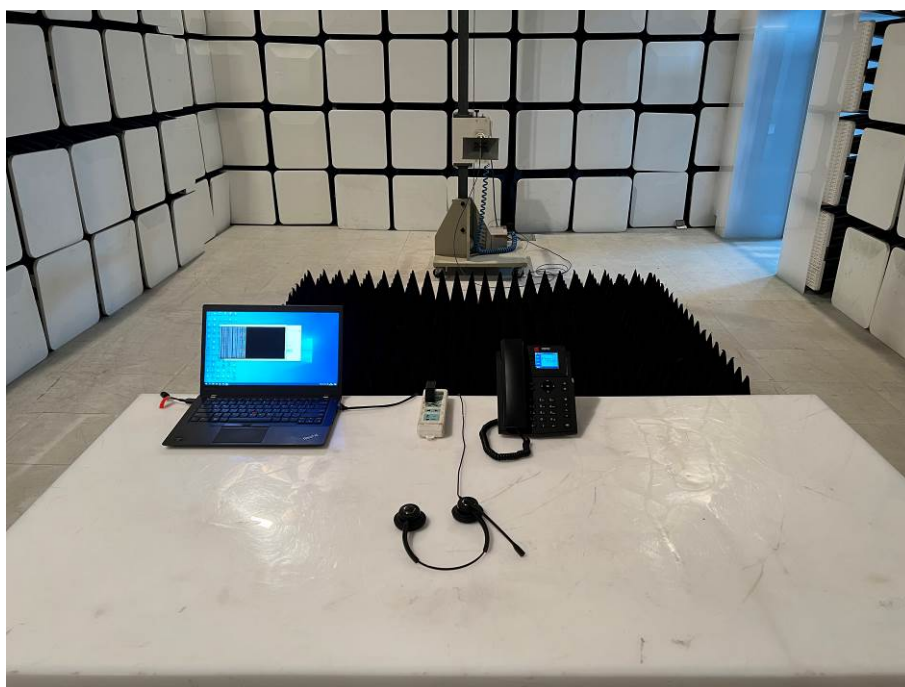


Above 1G

X303W Radiated Emission



Below 1G



Above 1G

X301G Conducted Emission



X301W Conducted Emission



X303W Conducted Emission

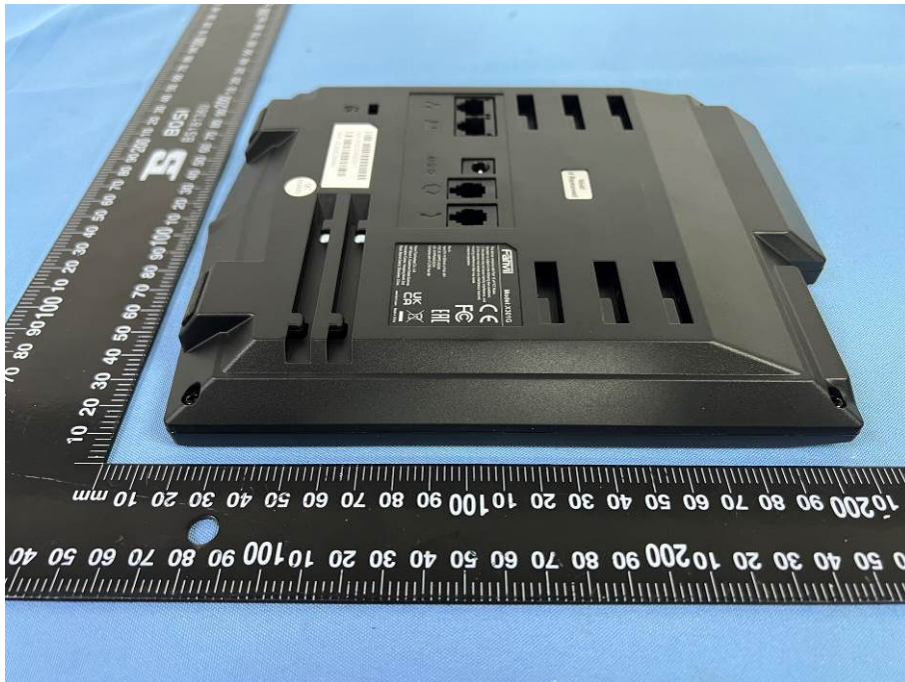


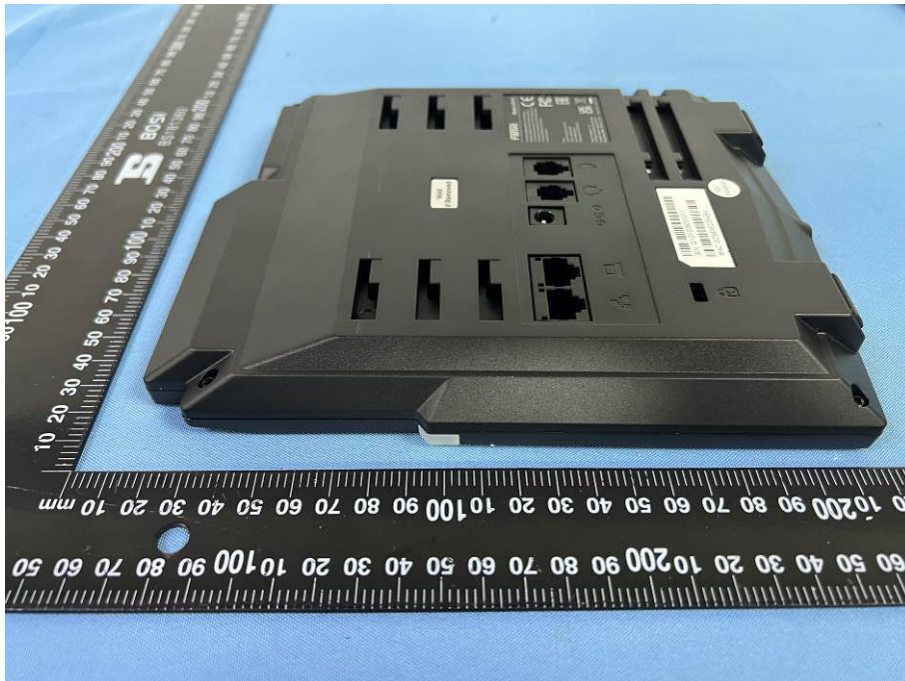
5. PHOTOGRAPHS OF EUT CONSTRUCTIONAL

X301G External Photographs





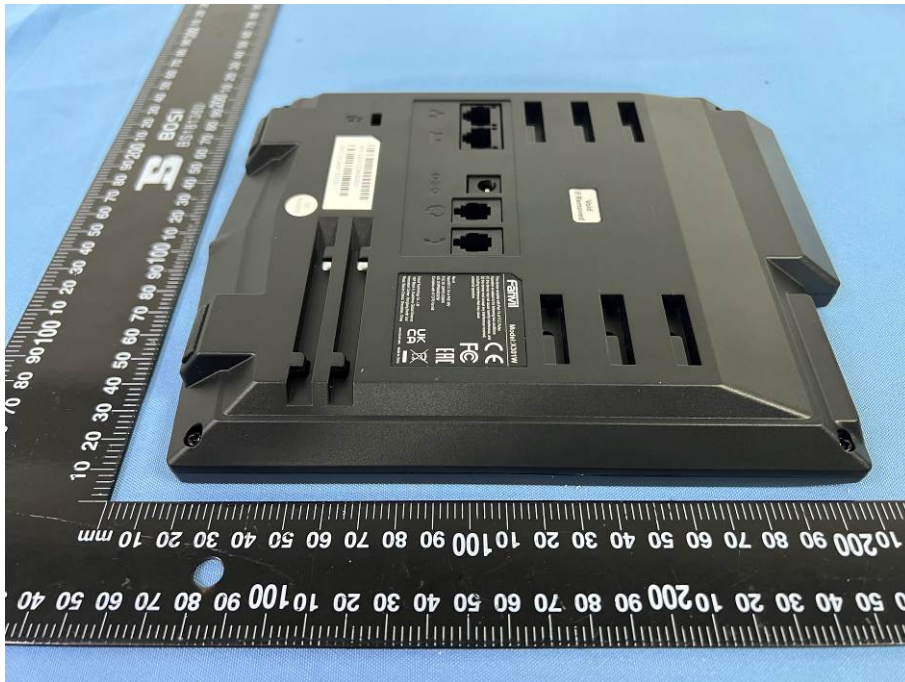


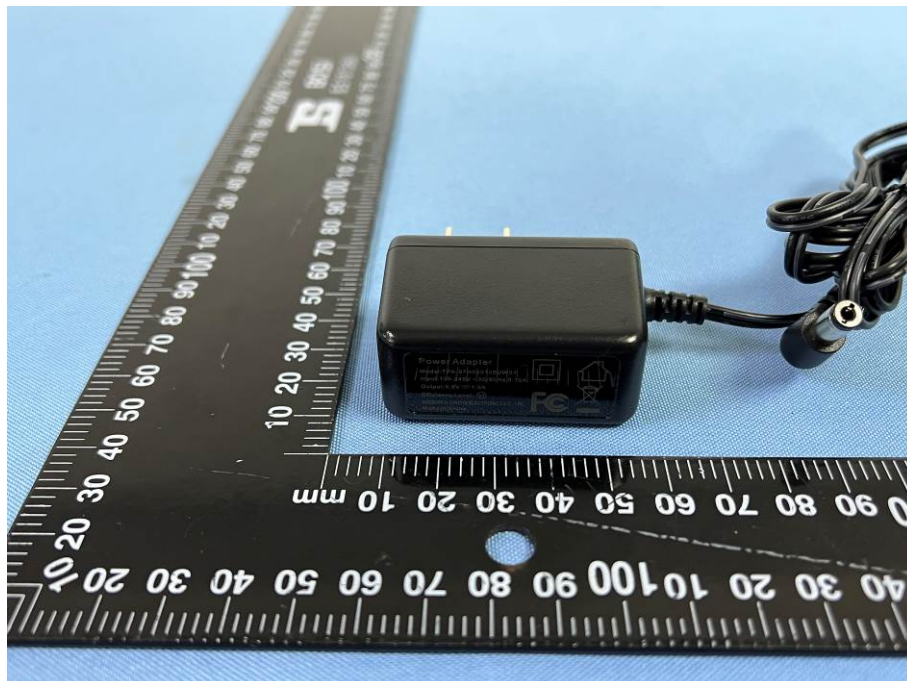


X301W External Photographs





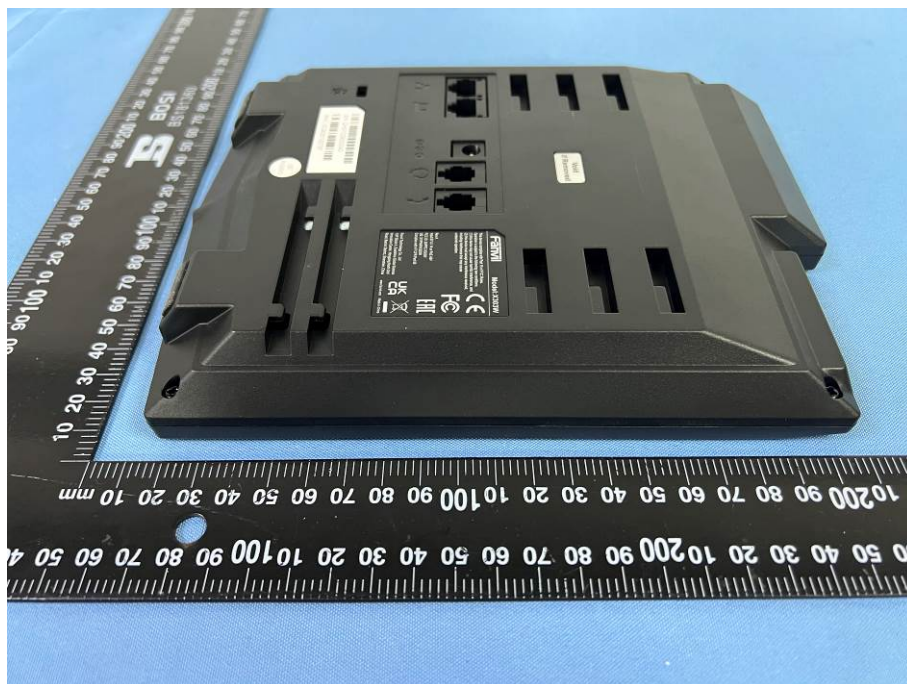


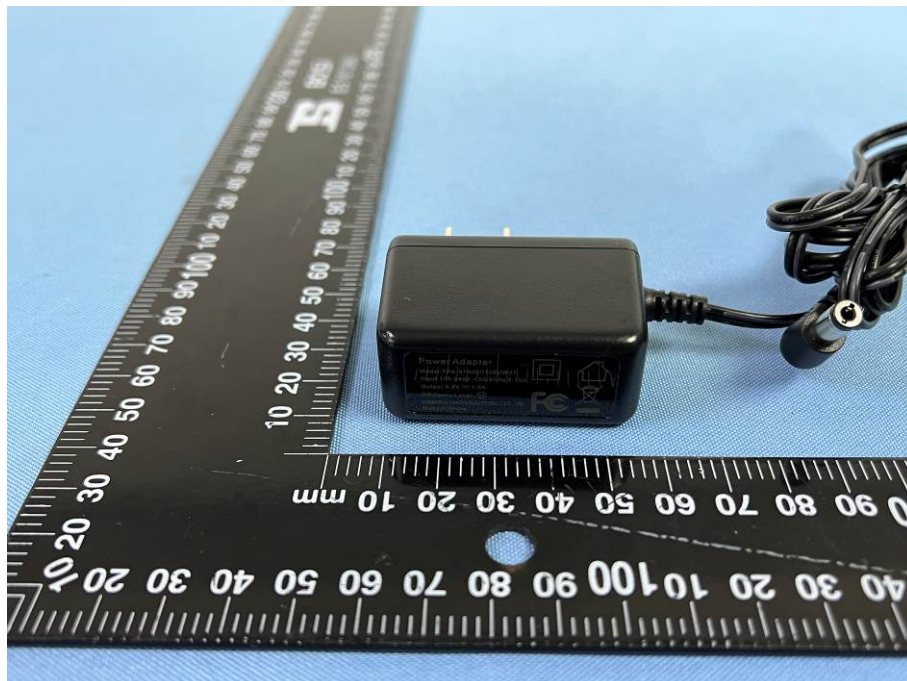
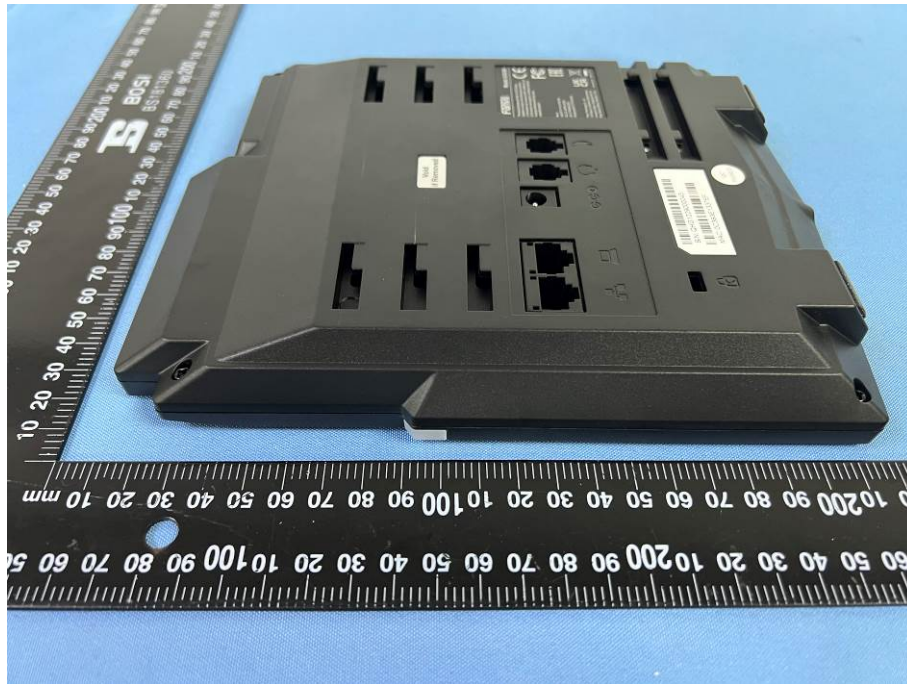


X303W External Photographs

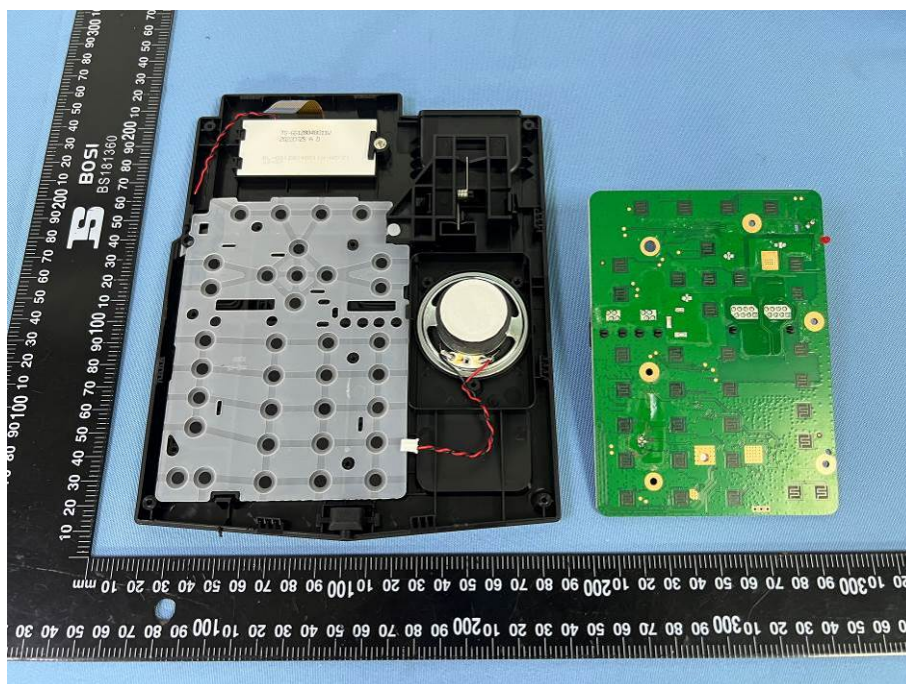
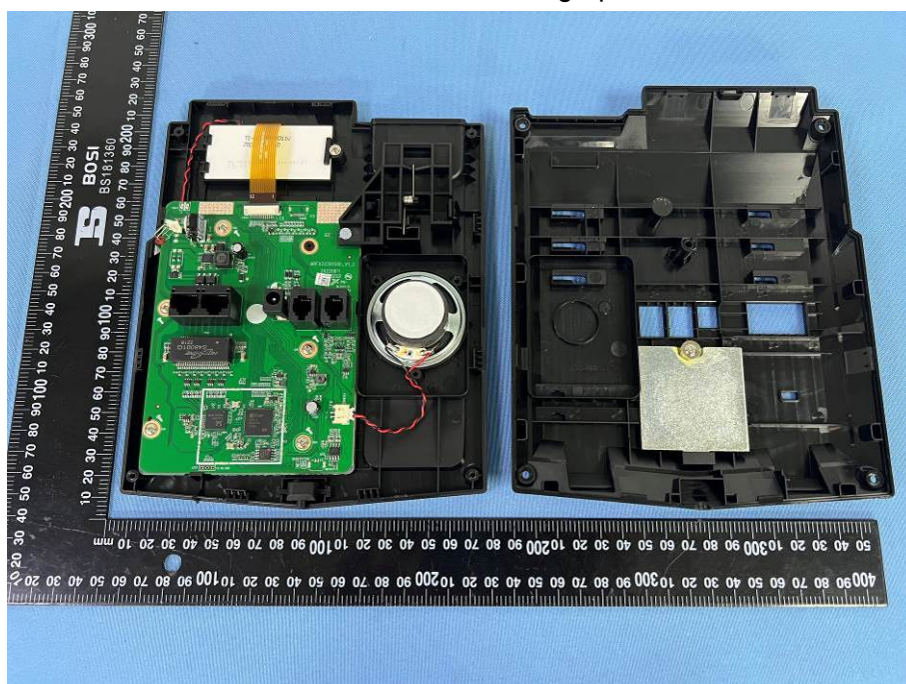


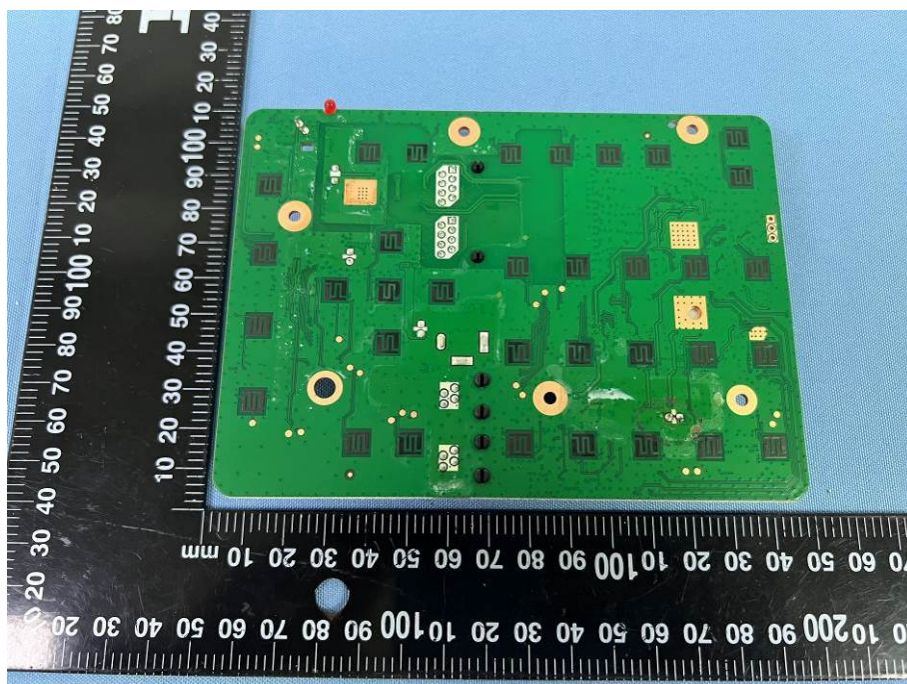
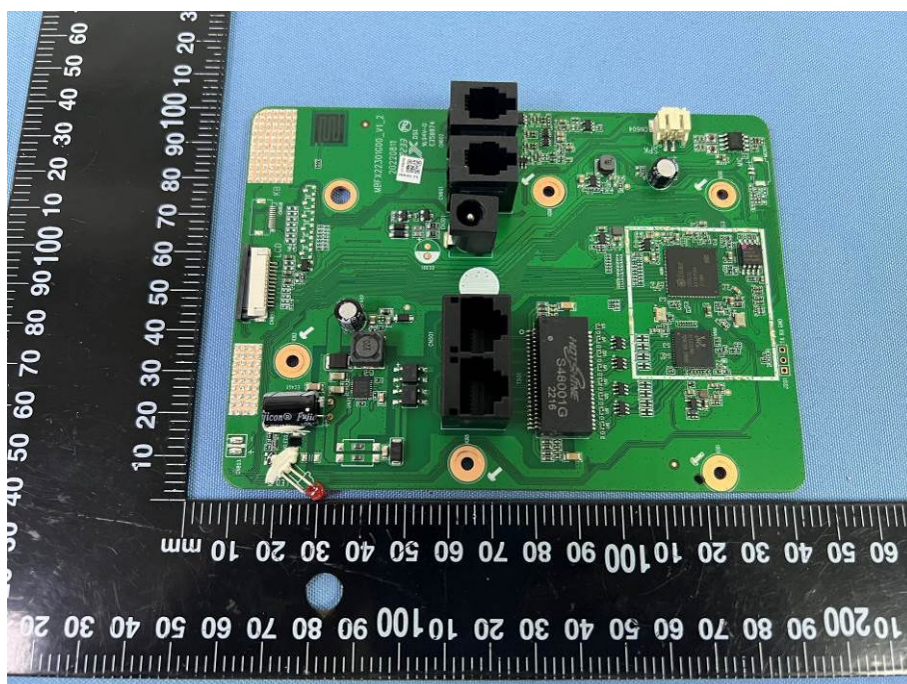




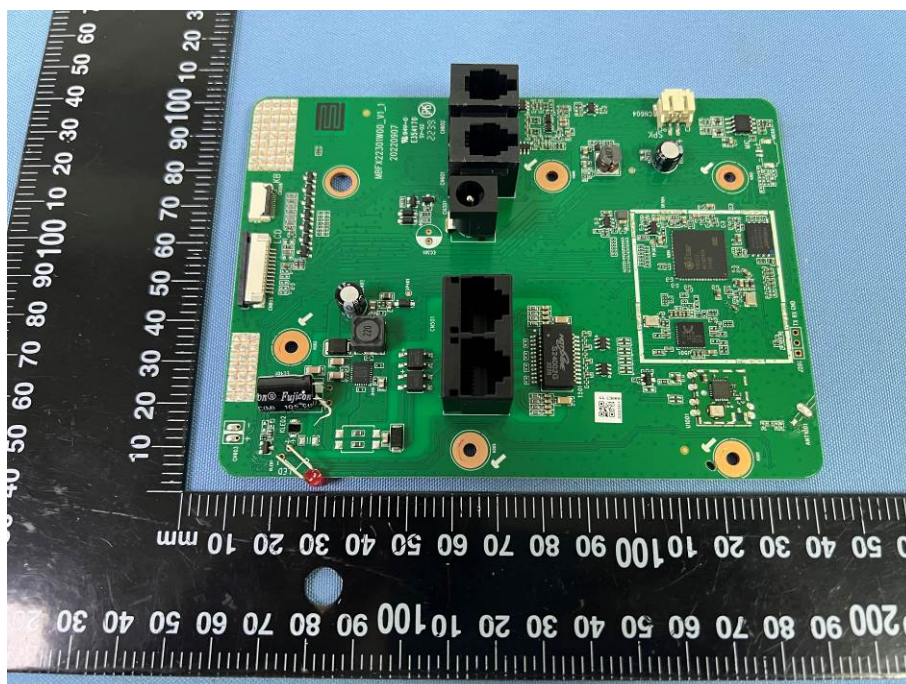
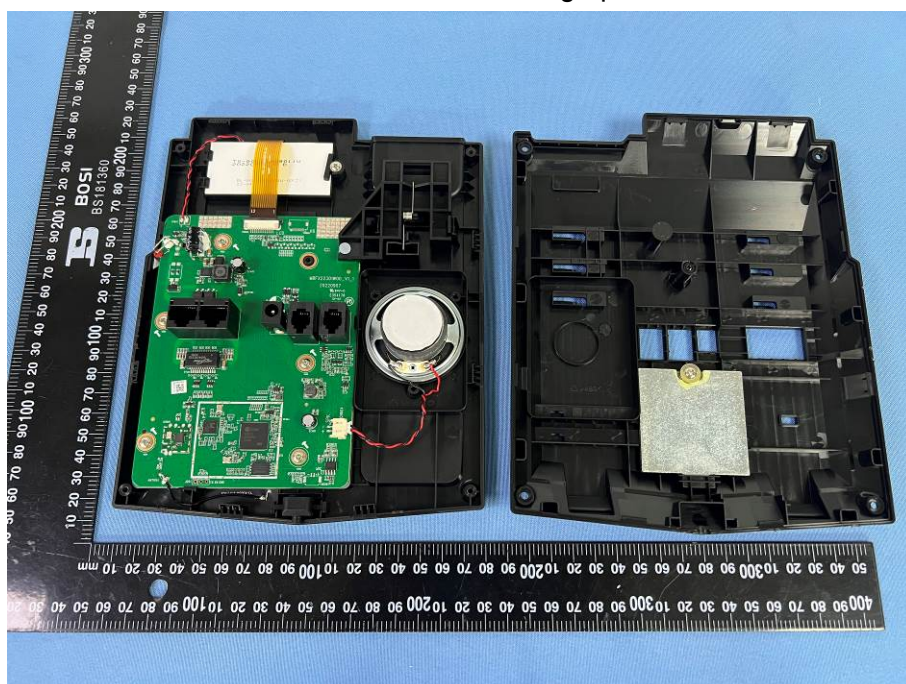


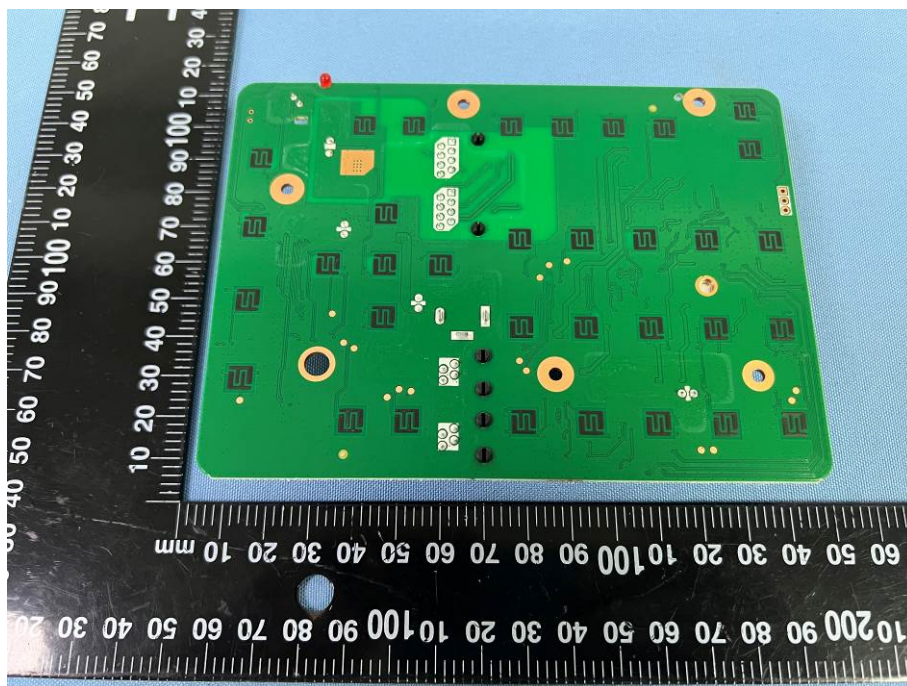
X301G Internal Photographs





X301W Internal Photographs





CTC Laboratories, Inc.

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Tel.: (86)755-27521059

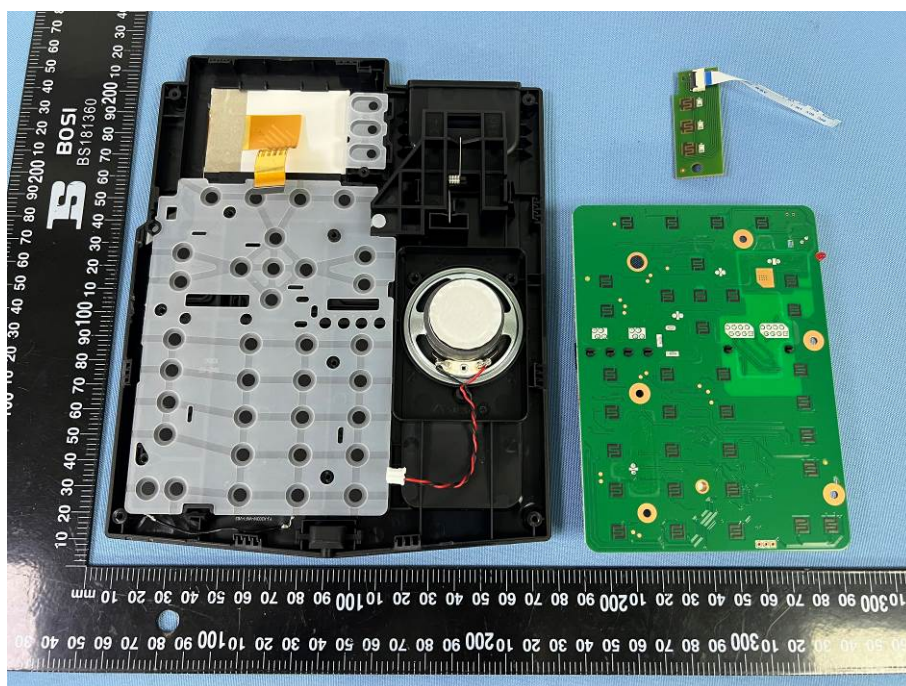
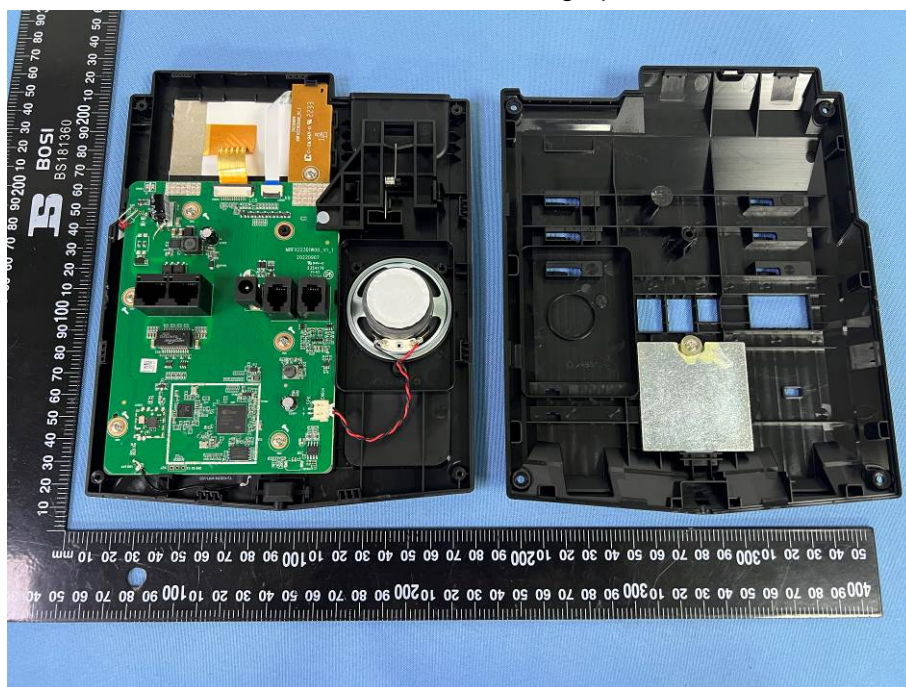
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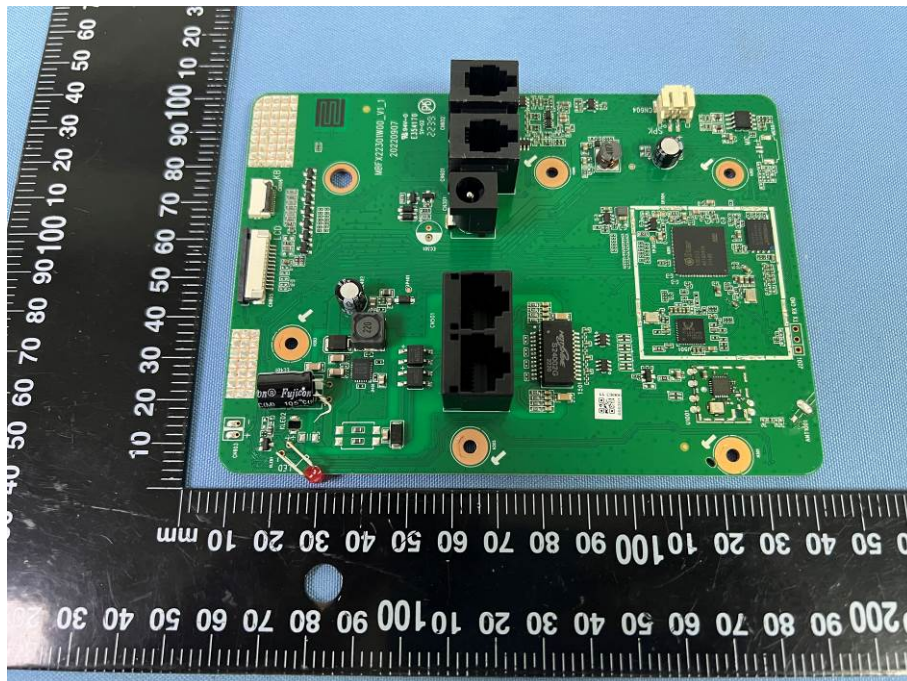
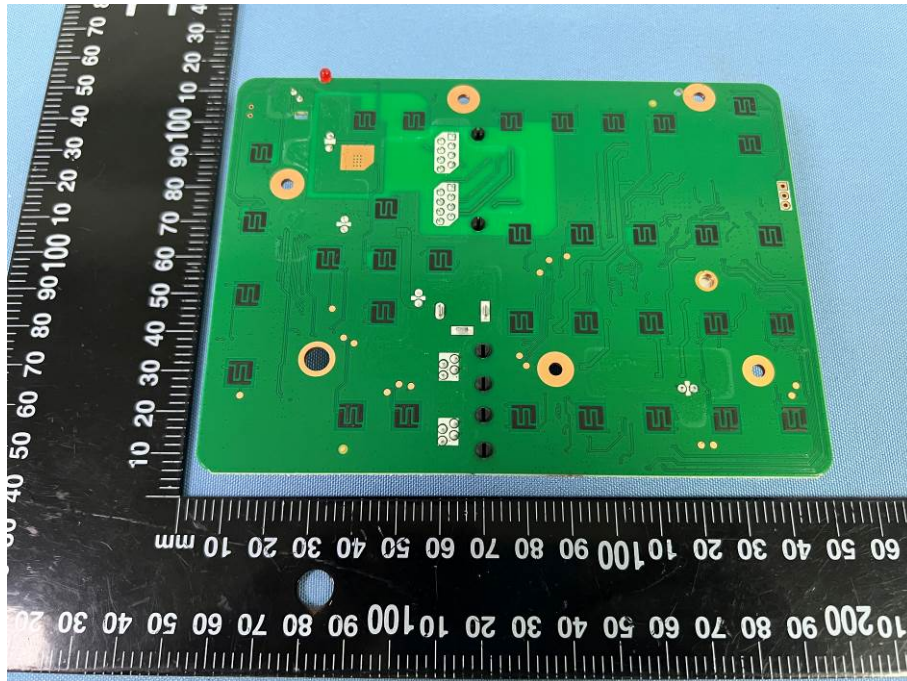
Http://www.sz-ctc.org.cn

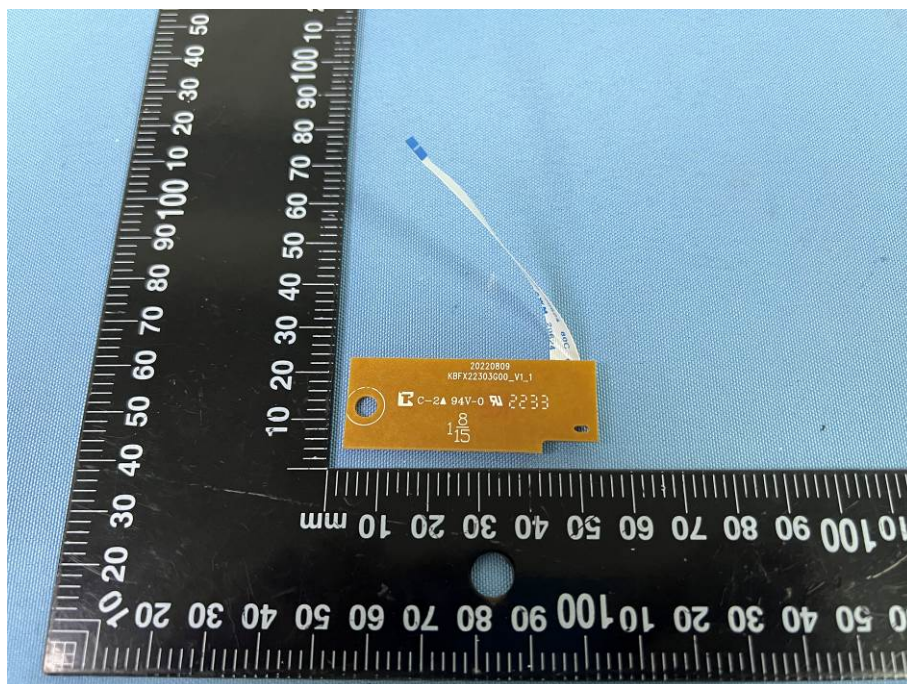
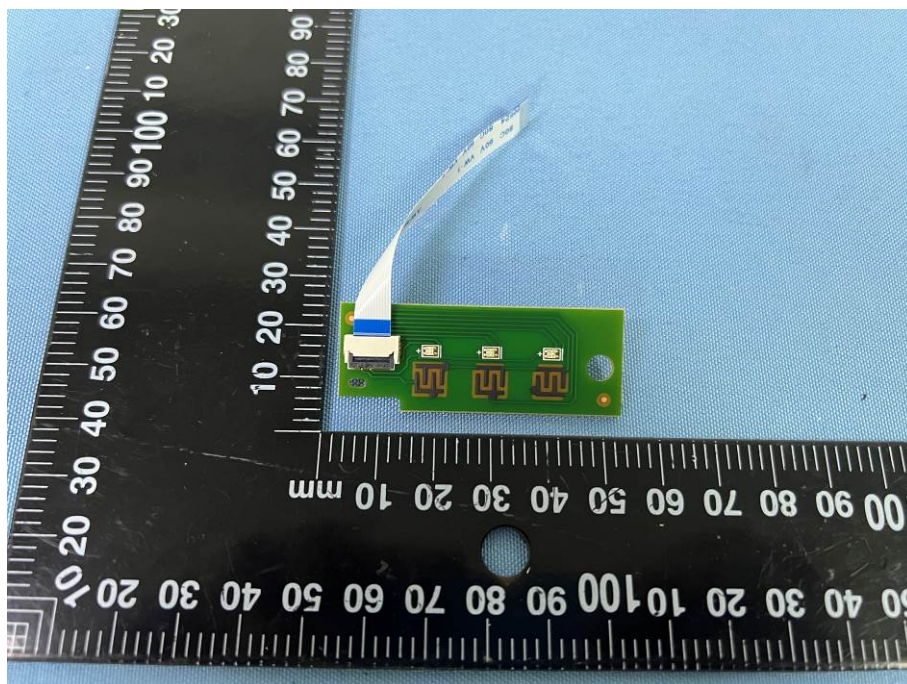


For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <http://yz.cnca.cn>

X303W Internal Photographs







*****THE END*****