

FCC CERTIFICATION TEST REPORT

Report No.: DDT-B25100911-2E01

Applicant	:	Nanjing Fenghou Electronics Co., LTD
Address	:	5th Floor, Building 10, Runcheng Science and Technology Park, No. 8 Longtai Road, Pukou District, Nanjing City, Jiangsu Province, China
Manufacturer	:	Nanjing Fenghou Electronics Co., LTD
Address	:	5th Floor, Building 10, Runcheng Science and Technology Park, No. 8 Longtai Road, Pukou District, Nanjing City, Jiangsu Province, China
Equipment under Test	:	AM anti-theft system
Model No.	:	ZA1137-H2, ZA1167-H2
Trade Mark	:	N/A
FCC ID	:	BVCAMS1137H
Report No.	:	DDT-B25100911-2E01
Issue Date	:	Oct. 17, 2025
Issued By	:	Suzhou Dongdian Testing Service Co., Ltd.
Address	:	Phase II, No.16 Runsheng Road, Suzhou Industrial Park, Suzhou, People's Republic of China Tel: +86-0512-62531270, E-mail: rui.zhang@dgddt.com, http://www.ddttest.com



REPORT

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TEST REPORT DECLARE

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Equipment under Test	:	AM anti-theft system
Model No.	:	ZA1137-H2, ZA1167-H2
Trade Mark	:	N/A
Manufacturer	:	Nanjing Fenghou Electronics Co., LTD
Address	:	5th Floor, Building 10, Runcheng Science and Technology Park, No. 8 Longtai Road, Pukou District, Nanjing City, Jiangsu Province, China

Test Standard Used:

47 CFR FCC Part 15 Subpart C

Test procedure used:

ANSI C63.10:2020+ Cor 1-2023+ amendment 1-2024

We Declare:

The equipment described above is tested by Suzhou Dongdian Testing Service Co., Ltd and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Suzhou Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.

Report No:	DDT-B25100911-2E01		
Sample No:	Y25100911-02		
Date of Receipt:	Oct. 13, 2025	Date of Test:	Oct. 13, 2025 ~ Oct. 16, 2025

Prepared By:

Bacon Dong

Bacon Dong/Engineer

Reviewed By:

Vane Xia

Vane Xia/Director

Authorized By:

leon wu

Leon Wu/Director

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Suzhou Dongdian Testing Service Co., Ltd.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Revision history

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Oct. 17, 2025	

1 Summary of test results

Description of Test Item	Standard	Results
20dB Bandwidth	47 CFR FCC Part 15.215	PASS
Radiated Emission	47 CFR FCC Part 15.209	PASS
Power Line Conducted Emissions	47 CFR FCC Part 15.207	PASS
Antenna requirement	47 CFR FCC Part 15.203	PASS

2 General test information

2.1. Description of EUT

EUT* Name	:	AM anti-theft system
Model Number	:	ZA1137-H2, ZA1167-H2
Model Differences	:	The difference between models ZA1137-H2 and ZA1167-H2 lies in the material of the casing; everything else is the same.
EUT function description	:	Please reference user manual of this device
Power supply	:	AC 240V 60Hz
Operation frequency	:	58kHz
Number of Channel	:	1
Antenna Type	:	Inductive loop coil antenna
Sample Number	:	N/A

Note: EUT is the ab. of equipment under test.

2.2. Accessories of EUT

Accessories	Manufacturer	Model No.	Description	Remark
N/A	N/A	N/A	N/A	N/A

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number or Type	Serial No.	Other
N/A	N/A	N/A	N/A	N/A

2.4. Block diagram of EUT configuration for test**2.5. Deviations of test standard**

No Deviation.

2.6. Test environment conditions

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

Temperature range:	20-28℃
Humidity range:	20-75%
Pressure range:	86-106kPa

2.7. Test laboratory

Lab Information	Company Name: Suzhou Dongdian Testing Service Co., Ltd. Address: Phase II, No.16 Runsheng Road, Suzhou Industrial Park, Suzhou, People's Republic of China Tel: +86-0512-62531270, E-mail: rui.zhang@dgddt.com, http://www.ddttest.com
Accreditation Certificate	A2LA (Certificate No.: 7346.01) Suzhou Dongdian Testing Service Co., Ltd. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1397) Suzhou Dongdian Testing Service Co., Ltd. has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. IC (IC Designation No.: 32952; CAB No.:CN0182) Suzhou Dongdian Testing Service Co., Ltd. has been recognized to

	perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.
Note 1: All tests measurement facilities use to collect the measurement data are located at Phase II, No.16 Runsheng Road, Suzhou Industrial Park, Suzhou, People's Republic of China Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OFS. Note 3: The test anechoic chamber in Suzhou Dongdian Testing Service Co., Ltd had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.	

2.8. Measurement uncertainty

Test Item	Uncertainty
Conducted Emissions at Mains Power Port	3.4dB (150KHz-30MHz)
Radiated Emissions (9kHz to 30MHz) at 10m Chamber	3.4dB
Radiated Emissions (30MHz to 1GHz) at 3m Chamber	2.4dB
Radiated Emissions (Above 1GHz) at 3m Chamber	3.1dB
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3 Equipment used during test

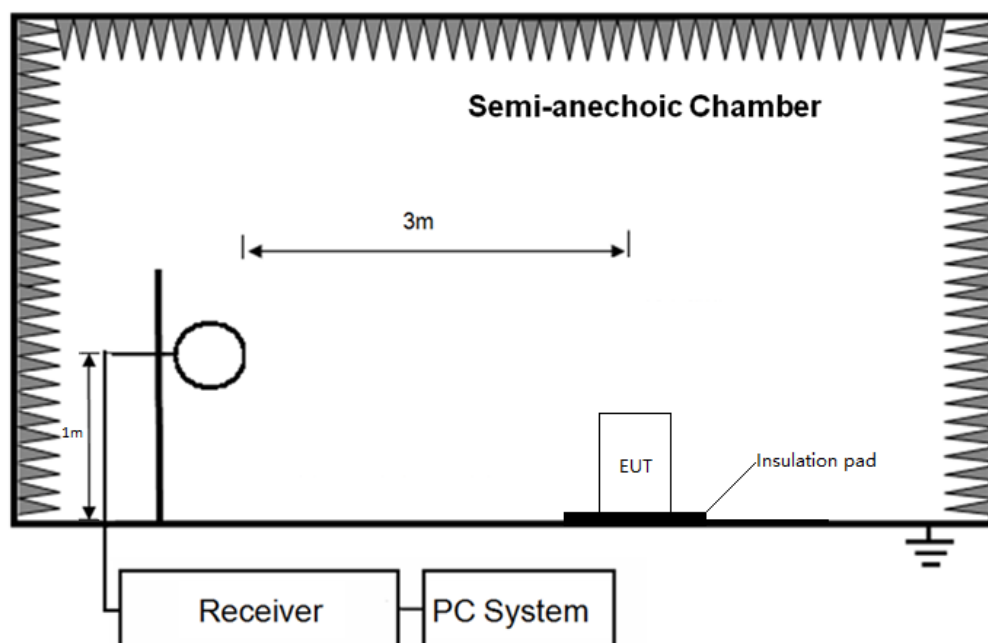
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Radiated Emission -10m EMI Chamber					
EMI Test Receiver	R&S	ESCI7	101195	Jan. 23, 2025	1 Year
Temperature and humidity recorder	HuaHanWei	TH10R	C00286000EE1	Jan. 23, 2025	1 Year
Loop antenna	SCHWARZBECK	FMZB1519-60D	00058	Nov. 05, 2024	3 Year
Hybrid antenna	SCHWARZBECK	VULB 9163	01679	Feb. 23, 2024	3 Year
Hybrid antenna	SCHWARZBECK	VULB 9163	01699	Aug. 02, 2024	3 Year
Low Noise Amplifier	Tonscend	TAP10M1G4ON	AP24G8060354	Jan. 23, 2025	1 Year
EMI Test Receiver	R&S	ESR7	101322	Jan. 23, 2025	1 Year
Test Software	TONSCEND	JS32-RE	5.0.0	N/A	N/A
Radiated Emission -3m EMI Chamber					
Broadband Antenna	TESEQ	CBL 6141B	27421	Jan. 10, 2024	3 Year
EMI Test Receiver	R&S	ESCI7	101138	Jan. 23, 2025	1 Year
Temperature, humidity and pressure recorder	HuaHanWei	THP40W-E	c0222020002F	Jan. 23, 2025	1 Year
Preamplifier	TESTX	LNPA 0113-30	2538QK1388	Jan. 23, 2025	1 Year
Horn Antenna	ETS	ETS 3117	157735	Jan. 19, 2024	3 Year
Pre-Amplifier_HF	COM-MW	DPA8-1000-18000-1012	9BH231242575	Jan. 23, 2025	1 Year
EMI Test Receiver	R&S	ESCI7	101138	Jan. 23, 2025	1 Year
Temperature, humidity and pressure recorder	HuaHanWei	THP40W-E	c0222020002F	Jan. 23, 2025	1 Year
Spectrum Analyzer	R&S	FSV40-N	101730	Jan. 23, 2025	1 Year
Test Software	TONSCEND	JS32-RE	5.0.0	N/A	N/A
Conducted Emission					
EMI Test Receiver	R&S	ESCI3	101705	Jan. 23, 2025	1 Year
LISN	R&S	ENV216	100064	Jan. 23, 2025	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	102704	Jan. 23, 2025	1 Year
Temperature, humidity and pressure recorder	HuaHanWei	THP40W-E	c0222020002E	Feb. 10, 2025	1 Year
Test Software	TONSCEND	JS32-CE	5.0.0	N/A	N/A

4 20dB Bandwidth

4.1. General Information

Test date	Oct. 13, 2025	Test engineer	Phil Zhou	
Climate condition	Ambient temperature	26.0°C	Relative humidity	72.6%
	Atmospheric pressure	101.4kPa		
Test place	10m Chamber			

4.2. Block diagram of test setup



4.3. Limits

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

4.4. Test Procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) The bandwidth of the fundamental frequency was measured by spectrum analyzer with 10 kHz RBW and 30 kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.5. Test Result

Freq. (kHz)	20dB bandwidth Result (kHz)	Conclusion
58	13.65	PASS

4.6. Original test data



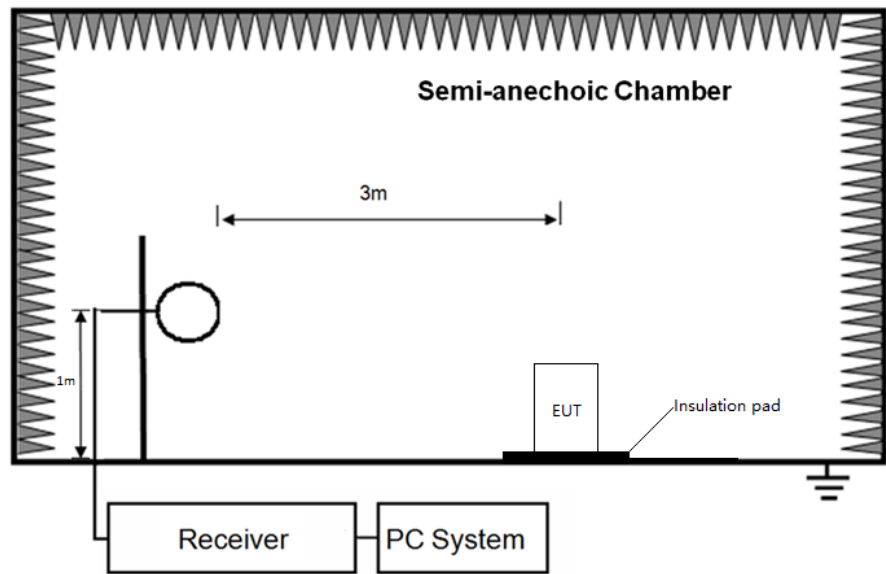
5 Radiated emission

5.1. General Information

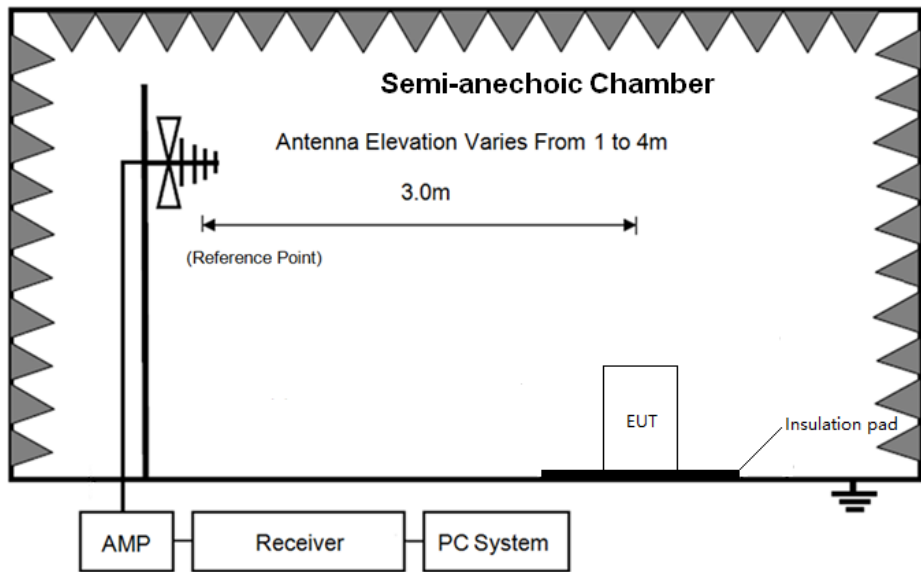
Test date	Oct. 13, 2025	Test engineer	Phil Zhou	
Climate condition	Ambient temperature	23.5°C	Relative humidity	67.3%
	Atmospheric pressure	101.9kPa		
Test place	10m&3m Chamber			

5.2. Block diagram of test setup

Test Setup Diagram for 9 kHz~30MHz



Test Setup Diagram for 30MHz~1GHz



5.3. Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 ~ 0.490	300	$2400/F(\text{kHz})$	$67.6-20\log(F)$
0.490 ~ 1.705	30	$24000/F(\text{kHz})$	$87.6-20\log(F)$
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{10\text{m}}(\text{dB}\mu\text{V/m}) = \text{Limit}_{300\text{m}}(\text{dB}\mu\text{V/m}) + 40\log(300\text{m}/10\text{m}) = \text{Limit}_{300\text{m}}(\text{dB}\mu\text{V/m}) + 59.08$$

$$\text{Limit}_{10\text{m}}(\text{dB}\mu\text{V/m}) = \text{Limit}_{30\text{m}}(\text{dB}\mu\text{V/m}) + 40\log(30\text{m}/10\text{m}) = \text{Limit}_{30\text{m}}(\text{dB}\mu\text{V/m}) + 19.08$$

$$\text{Limit}_{3\text{m}}(\text{dB}\mu\text{V/m}) = \text{Limit}_{300\text{m}}(\text{dB}\mu\text{V/m}) + 40\log(300\text{m}/3\text{m}) = \text{Limit}_{300\text{m}}(\text{dB}\mu\text{V/m}) + 80$$

$$\text{Limit}_{3\text{m}}(\text{dB}\mu\text{V/m}) = \text{Limit}_{30\text{m}}(\text{dB}\mu\text{V/m}) + 40\log(30\text{m}/3\text{m}) = \text{Limit}_{30\text{m}}(\text{dB}\mu\text{V/m}) + 40$$

5.4. Test Procedure

(1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.

(2) Test antenna was located 10m or 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
9kHz-30MHz	Active Loop antenna	10m
30MHz-1GHz	Trilog Broadband Antenna	3m

According ANSI C63.10:2013 clause 6.4.4.2 and 6.5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also be positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. for measurement above 30MHz, the Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9kHz to 1GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1m to 4m(Except loop antenna, it's fixed 1m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions. Spectrum frequency from 9kHz to 1GHz (tenth harmonic of fundamental frequency) was investigated.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.

(5) The emissions from 9kHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90kHz, 110-490kHz, for emissions from 9kHz-90kHz,110kHz-490kHz and above 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions also be measured and need comply with Peak limit.

(6) The emissions from 9kHz to 1GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
9kHz-150kHz	200Hz
150kHz-30MHz	9kHz
30MHz-1GHz	120kHz

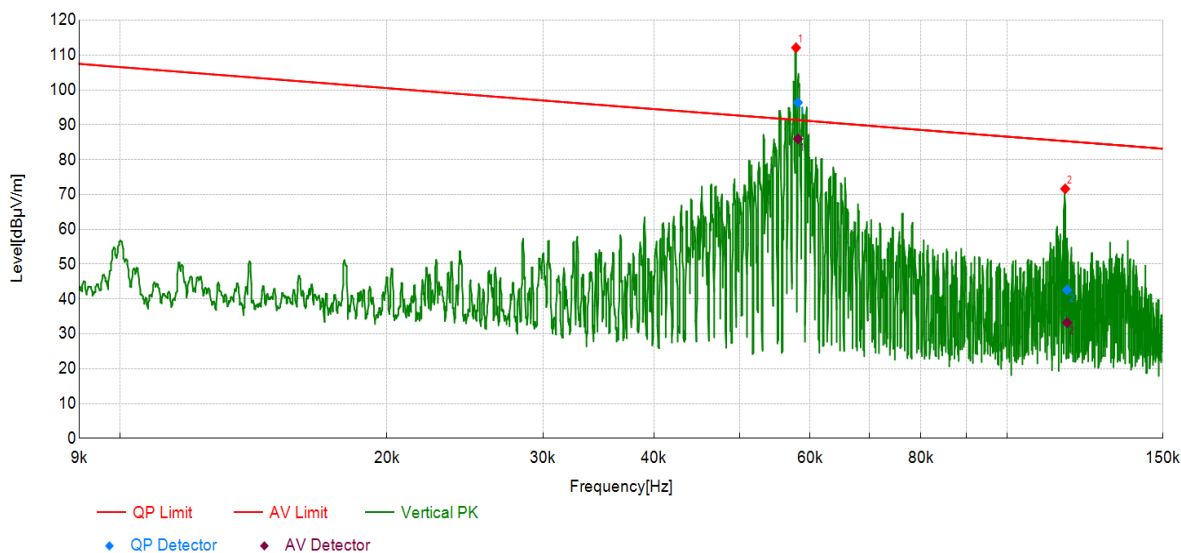
5.5. Test result

PASS. (See below detailed test result)

Note: After comparing the three directions of X, Y, Z, the X direction is the worst state.

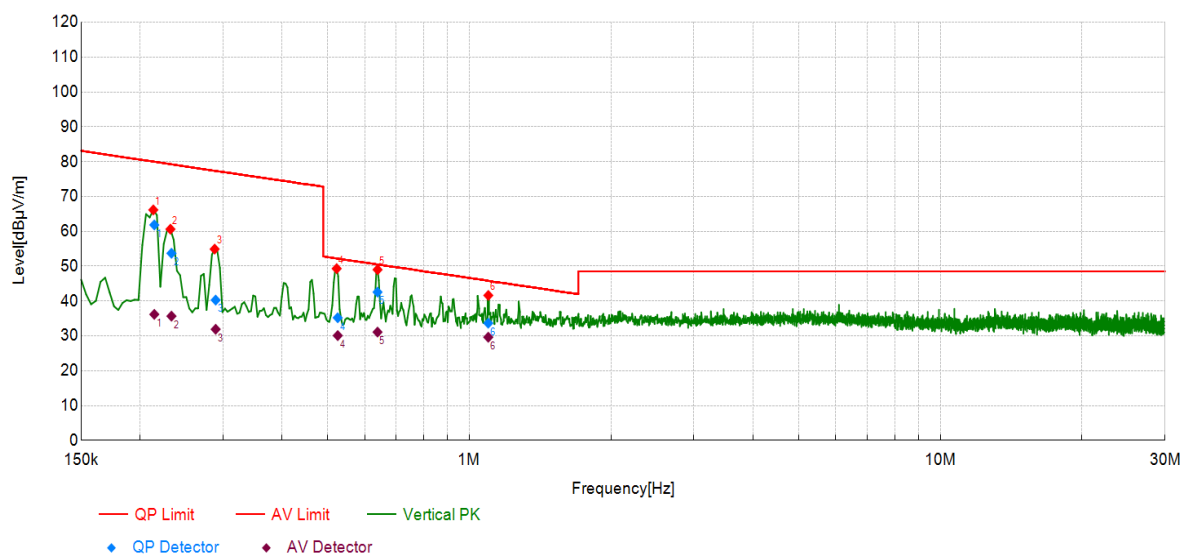
Below 30MHz:

Radiated Emission Test Result



NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	0.058	90.38	110.13	19.75	111.3	1.17	100	112	PK	V	Fundmental
	0.058	66.2	85.9	19.75	91.3	5.42	100	67	AV	V	
2	0.12	23.0	42.6	19.54	85.2	42.6	100	28	QP	V	PASS

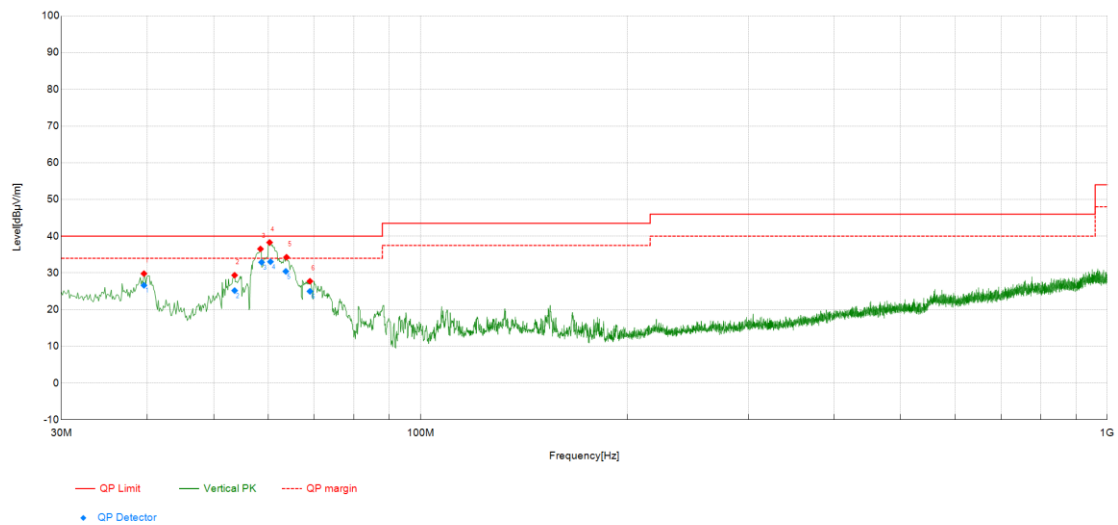
Note: FCC 15.209 (d) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.



NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	0.21	16.70	36.17	19.47	79.99	43.82	100	328	AV	V	PASS
2	0.23	16.18	35.66	19.48	79.24	43.58	100	128	AV	V	PASS
3	0.29	12.40	31.89	19.49	77.33	45.44	100	315	AV	V	PASS
4	0.53	15.75	35.19	19.44	52.17	22.09	100	248	QP	V	PASS
5	0.64	23.10	42.56	19.46	50.50	19.41	100	319	QP	V	PASS
6	1.10	14.12	33.64	19.52	45.80	16.19	100	198	QP	V	PASS

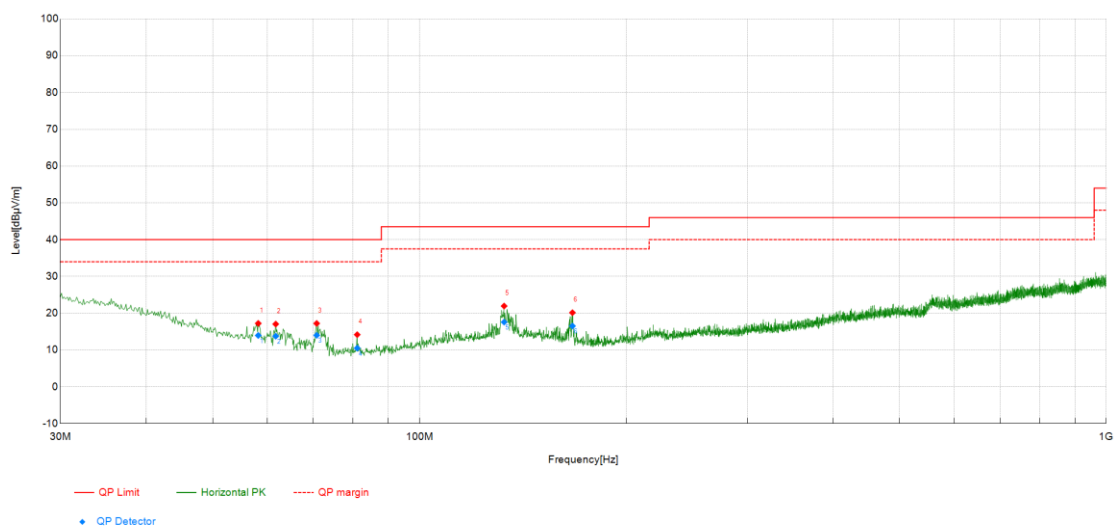
Note: FCC 15.209 (d) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

Above 30MHz:
Transmission mode:



Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pol	Verdict
1	39.58	-18.19	44.81	26.62	40.00	13.38	100	222	V	PASS
2	53.64	-24.94	50.13	25.19	40.00	14.81	100	262	V	PASS
3	58.71	-26.73	59.63	32.90	40.00	7.10	100	43	V	PASS
4	60.48	-27.20	60.25	33.05	40.00	6.95	100	59	V	PASS
5	63.68	-27.91	58.34	30.43	40.00	9.57	200	58	V	PASS
6	69.04	-28.61	53.6	24.99	40.00	15.01	100	357	V	PASS



Final Data List

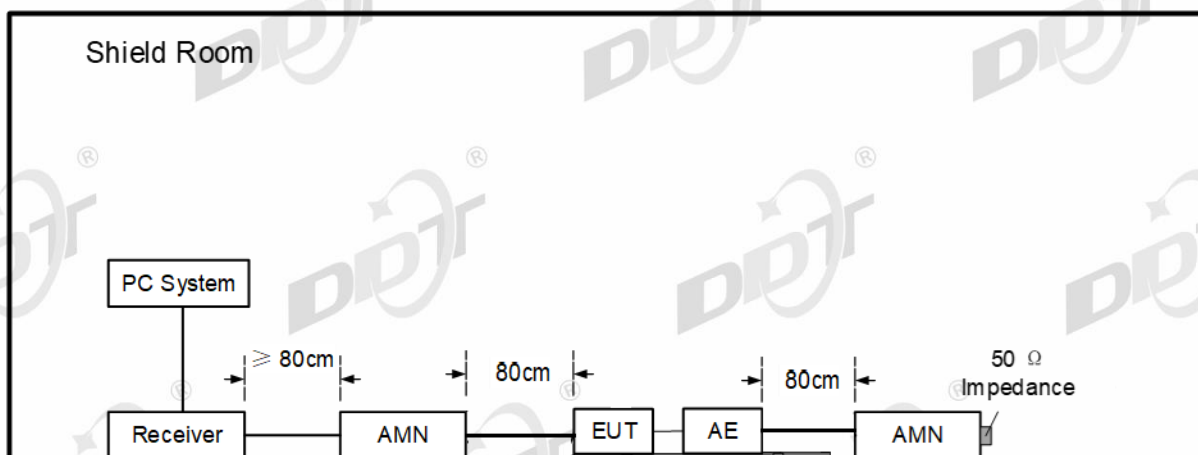
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pol	Verdict
1	58.25	-26.66	40.63	13.97	40.00	26.03	200	174	H	PASS
2	61.77	-27.49	41.26	13.77	40.00	26.23	100	170	H	PASS
3	70.86	-28.67	42.68	14.01	40.00	25.99	200	311	H	PASS
4	81.17	-28.97	39.48	10.51	40.00	29.49	200	230	H	PASS
5	132.82	-23.67	41.26	17.59	43.50	25.91	100	244	H	PASS
6	167.01	-25.11	41.63	16.52	43.50	26.98	200	255	H	PASS

6 Power Line Conducted Emission

6.1. General Information

Test date	Oct. 16, 2025	Test engineer	Allen Liu	
Climate condition	Ambient temperature	23.5°C	Relative humidity	67.3%
	Atmospheric pressure	101.9kPa		
Test place	Shield room 1			

6.2. Block diagram of test setup



6.3. Power Line Conducted Emission Limits

Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

6.4. Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

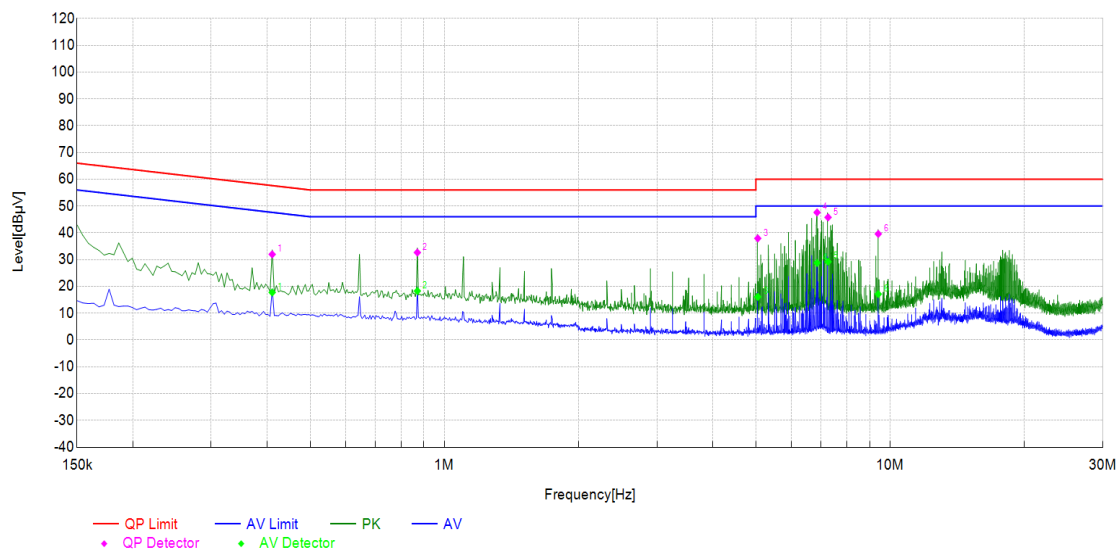
The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

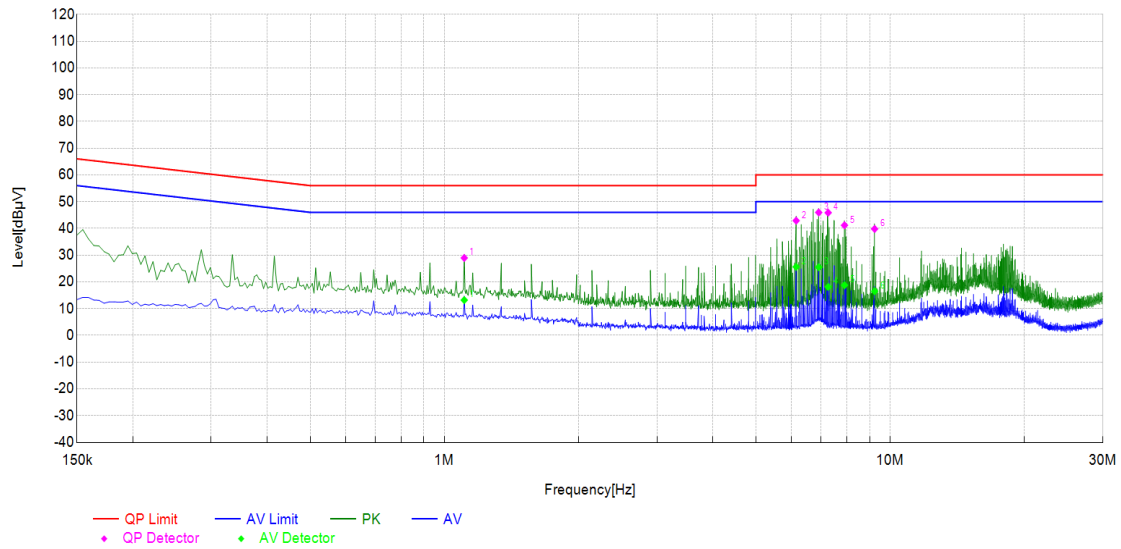
6.5. Test Result

PASS. (See below detailed test result)

Conducted Emission


Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Phase	Verdict
1	0.411	19.17	12.79	31.96	57.63	25.67	-1.43	17.74	47.63	29.89	L	PASS
2	0.87	18.93	13.71	32.64	56.00	23.36	-0.64	18.29	46.00	27.71	L	PASS
3	5.0505	19.92	18.00	37.92	60.00	22.08	-3.83	16.09	50.00	33.91	L	PASS
4	6.8595	19.93	27.67	47.60	60.00	12.40	8.83	28.76	50.00	21.24	L	PASS
5	7.26	19.91	25.86	45.77	60.00	14.23	9.30	29.21	50.00	20.79	L	PASS
6	9.411	19.79	19.80	39.59	60.00	20.41	-2.65	17.14	50.00	32.86	L	PASS



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Phase	Verdict
1	1.1085	18.88	10.07	28.95	56.00	27.05	-5.69	13.19	46.00	32.81	N	PASS
2	6.1575	19.95	22.94	42.89	60.00	17.11	5.66	25.61	50.00	24.39	N	PASS
3	6.918	19.97	25.98	45.95	60.00	14.05	5.54	25.51	50.00	24.49	N	PASS
4	7.2645	19.96	25.91	45.87	60.00	14.13	-1.82	18.14	50.00	31.86	N	PASS
5	7.9035	19.93	21.23	41.16	60.00	18.84	-1.18	18.75	50.00	31.25	N	PASS
6	9.2355	19.88	19.92	39.80	60.00	20.20	-3.38	16.50	50.00	33.50	N	PASS

7 Antenna Requirements

For intentional device, according to FCC 47 CFR Section 15.203, An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

8 Test setup photograph

Please find the photos of EUT in Appendix C.

9 Photos of the EUT

Please find the photos of EUT in Appendix A& Appendix B.

END OF REPORT