

FCC Test Report

Report No. : 1812C50322812502-M1

Applicant : Shenzhen Xinyi Technology Co., Ltd.

Address : C505, Bay Area Digital Warehouse, Taoyuan
Community, Dalang Street, Longhua District,
Shenzhen, China

Product Name : Smart Projector

Report Date : 2025-11-12



Shenzhen Anbotek Compliance Laboratory Limited

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Hotline: 400-003-0500 web: www.anbotek.com E-mail: service@anbotek.com



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TEST REPORT

Applicant : Shenzhen Xinyi Technology Co., Ltd.
Manufacturer : GuangDong SINOY Smart Technology CO., LTD
Product Name : Smart Projector
Model No. : HY300Max
Trade Mark : MAGCUBIC
Rating(s) : Input1: 36Vdc 0.95A
Input2: 12Vdc 1.0A
47 CFR Part 15.247
Test Standard(s) : KDB 558074 D01 15.247 Meas Guidance v05r02
ANSI C63.10-2020

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt: 2025-09-23

Date of Test: 2025-09-23 to 2025-11-04

Prepared By:

Cecilia Chen

(Cecilia Chen)

Approved & Authorized Signer:

Hugo Chen

(Hugo Chen)

Revision History

Report Version	Description	Issued Date
R00	Original Issue.(Note 1)	2025-11-12

Note 1:
This is a Class II application which was based on the original report 1812C50322812502. The difference between the original device and current one described as following:

1. Change the Adapter .

The changes are not related with the other RF parameters, only Conducted Emission and spurious emission (below 1GHz) were retested.

1. General Information

1.1. Client Information

Applicant	:	Shenzhen Xinyi Technology Co., Ltd.
Address	:	C505, Bay Area Digital Warehouse, Taoyuan Community, Dalang Street, Longhua District, Shenzhen, China
Manufacturer	:	GuangDong SINOY Smart Technology CO., LTD
Address	:	5TH Floor, Building #2, RunFengZhiGu Industrial Park, Changping Town, DongGuan City, Guangdong, China.
Factory	:	GuangDong SINOY Smart Technology CO., LTD
Address	:	Dongguan Changping Run FengZhigu factory building 2, 3rd floor, 5th floor, 501, 3rd floor, 3rd floor, 4th floor, China

1.2. Description of Device (EUT)

Product Name	:	Smart Projector
Model No.	:	HY300Max
Trade Mark	:	MAGCUBIC
Test Power Supply	:	AC 120V/60Hz for Adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	Manufacturer: Guangdong Mingxin Power Technologies Co.,Ltd. Model: MX60WB-3600950U -1201000U Input: 100-240V~, 50/60Hz, 1.5A Max Output1: 36.0V=0.95A Output2: 12.0V=1.0A

RF Specification

Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	40
Modulation Type	:	GFSK
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	3.41dBi

Remark:

- (1) All of the RF specification are provided by customer.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
/	/	/	/

1.4. Operation channel list

Operation Band:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

1.5. Description of Test Modes

Pretest Modes	Descriptions
TM1	Keep the EUT works in continuously transmitting mode (BLE 1M)
TM2	Keep the EUT works in continuously transmitting mode (BLE 2M)

1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.2dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.70dB; Vertical: 4.42dB
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

1.7. Additional Instructions

Power level setup in software: Set the frequency through the adb command.

Operation Band:

Mode	Channel(MHz)	Power level	Transmitting type
BLE_1Mbps	2402	default	data pack TX
BLE_1Mbps	2440	default	data pack TX
BLE_1Mbps	2480	default	data pack TX
BLE_2Mbps	2402	default	data pack TX
BLE_2Mbps	2440	default	data pack TX
BLE_2Mbps	2480	default	data pack TX

1.8. Test Summary

Test Items	Test Modes	Status
Conducted Emission at AC power line	Mode1,2	P
Emissions in restricted frequency bands (below 1GHz)	Mode1,2	P
Note: P: Pass N: N/A, not applicable		

1.9. Description of Test Facility

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

FCC-Registration No.:279531

Shenzhen Anbotek Compliance Laboratory Limited, 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 No. 279531.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.
Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

1.10. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.
7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

1.11. Test Equipment List

Conducted Emission at AC power line						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2025-09-05	2026-09-04
2	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	/	/
3	EMI Test Receiver(CE2#)	Rohde & Schwarz	ESPI3	100926	2025-09-05	2026-09-04
4	Three Phase V-type Artificial Power Network LISN 200A	EMtrace	PWL-50-3200A	2404	2025-02-21	2026-02-20

Emissions in frequency bands (below 1GHz)						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver(RE2/3#)	Rohde & Schwarz	ESR26	101481	2025-01-14	2026-01-13
2	Pre-amplifier	SONOMA	310N	186860	2025-01-14	2026-01-13
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2025-09-05	2028-09-04
4	Loop Antenna (9K-30M)	Schwarzbeck	FMZB1519 B	00053	2025-09-05	2026-09-04
5	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	/	/

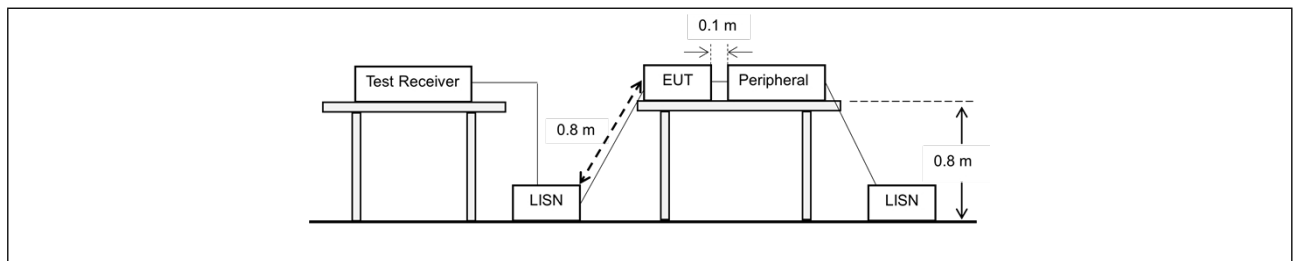
2. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		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 Method:	ANSI C63.10-2020 section 6.2		
Procedure:	Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		

2.1. EUT Operation

Operating Environment:	
Test mode:	1: TX mode(BLE 1M): Keep the EUT works in continuously transmitting mode (BLE 1M) 2: TX mode(BLE 2M): Keep the EUT works in continuously transmitting mode (BLE 2M)

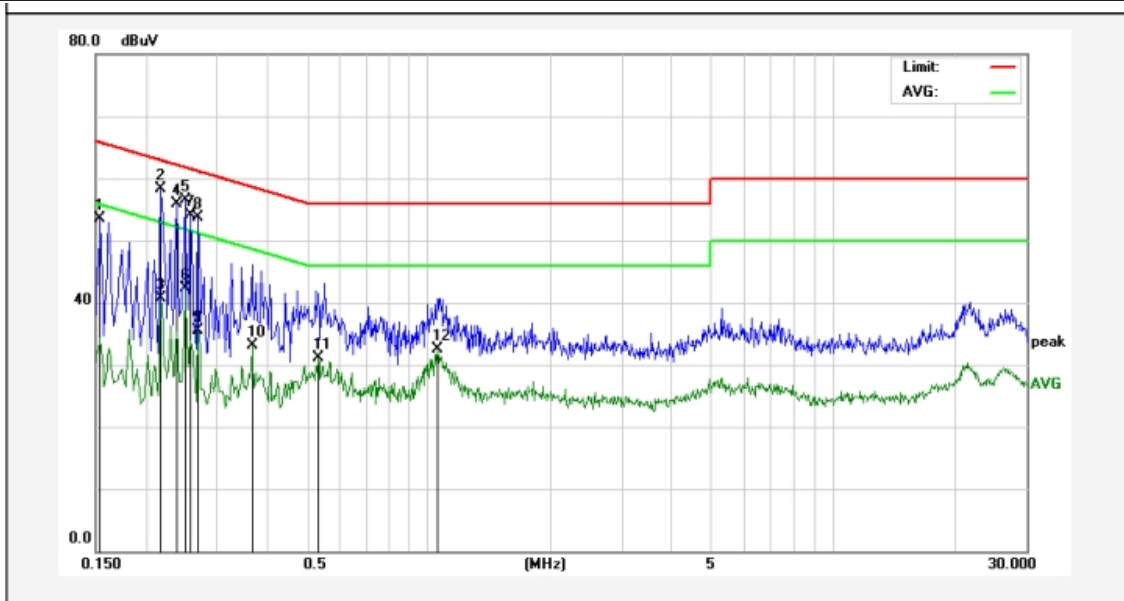
2.2. Test Setup



2.3. Test Data

Temperature:	25.3 °C	Humidity:	60 %	Atmospheric Pressure:	101 kPa
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TM2 / Line: Line / Band: 2400-2483.5 MHz / BW: 1 / CH: L
Test Power Supply: AC 120V/60Hz for Adapter



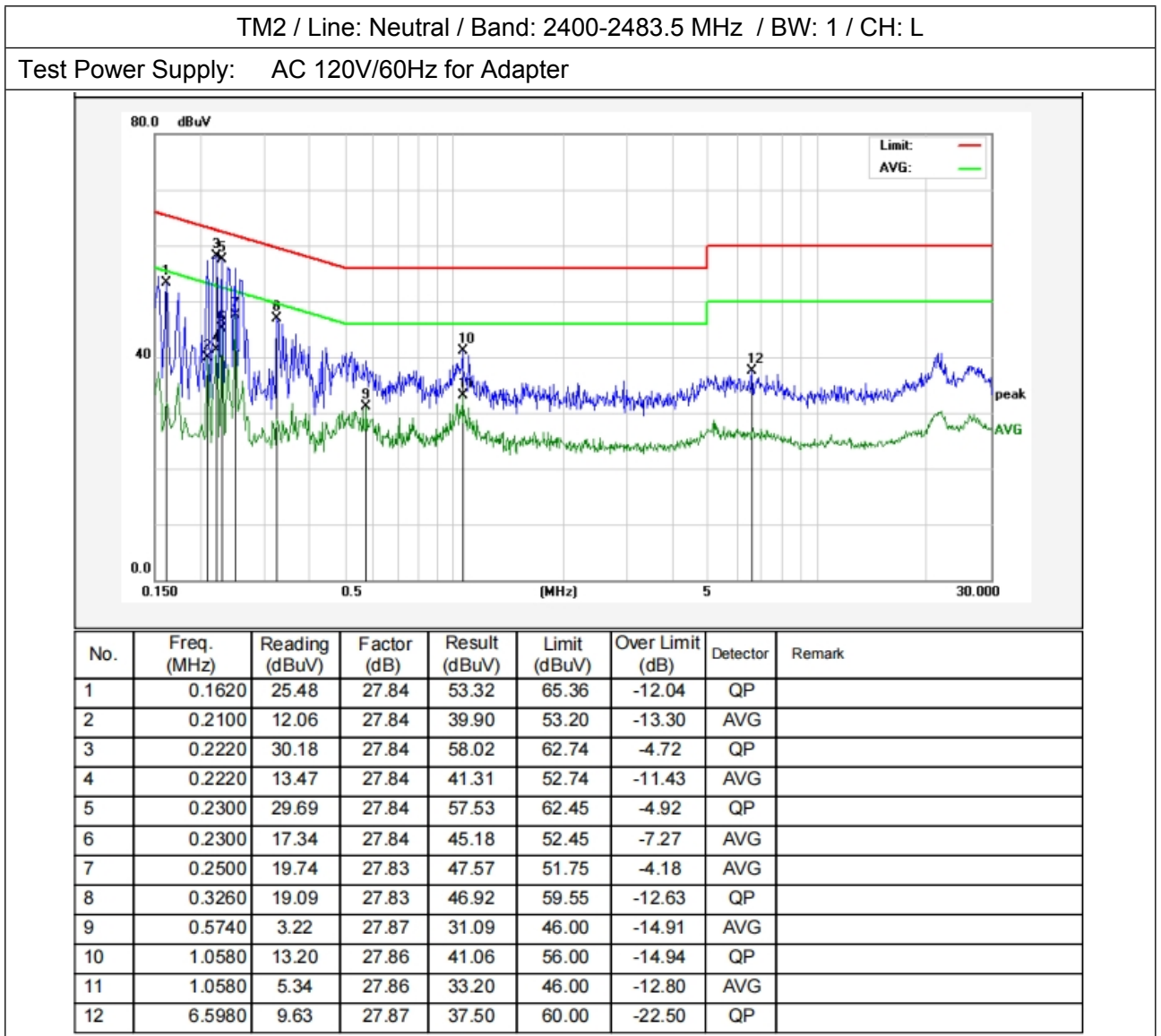
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1539	25.58	27.84	53.42	65.78	-12.36	QP	
2	0.2180	30.39	27.84	58.23	62.89	-4.66	QP	
3	0.2180	12.88	27.84	40.72	52.89	-12.17	AVG	
4	0.2380	28.05	27.84	55.89	62.16	-6.27	QP	
5	0.2500	28.77	27.83	56.60	61.75	-5.15	QP	
6	0.2500	14.50	27.83	42.33	51.75	-9.42	AVG	
7	0.2580	26.32	27.84	54.16	61.49	-7.33	QP	
8	0.2700	25.95	27.84	53.79	61.12	-7.33	QP	
9	0.2700	7.68	27.84	35.52	51.12	-15.60	AVG	
10	0.3660	5.33	27.83	33.16	48.59	-15.43	AVG	
11	0.5340	3.21	27.86	31.07	46.00	-14.93	AVG	
12	1.0540	4.63	27.86	32.49	46.00	-13.51	AVG	

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Temperature:	25.3 °C	Humidity:	60 %	Atmospheric Pressure:	101 kPa
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Note:

- Only record the worst data in the report.
- Result(dBμV) = Reading(dBμV) + Factor(dB);
Over Limit(dB) = Result(dBμV) - Limit(dBμV)

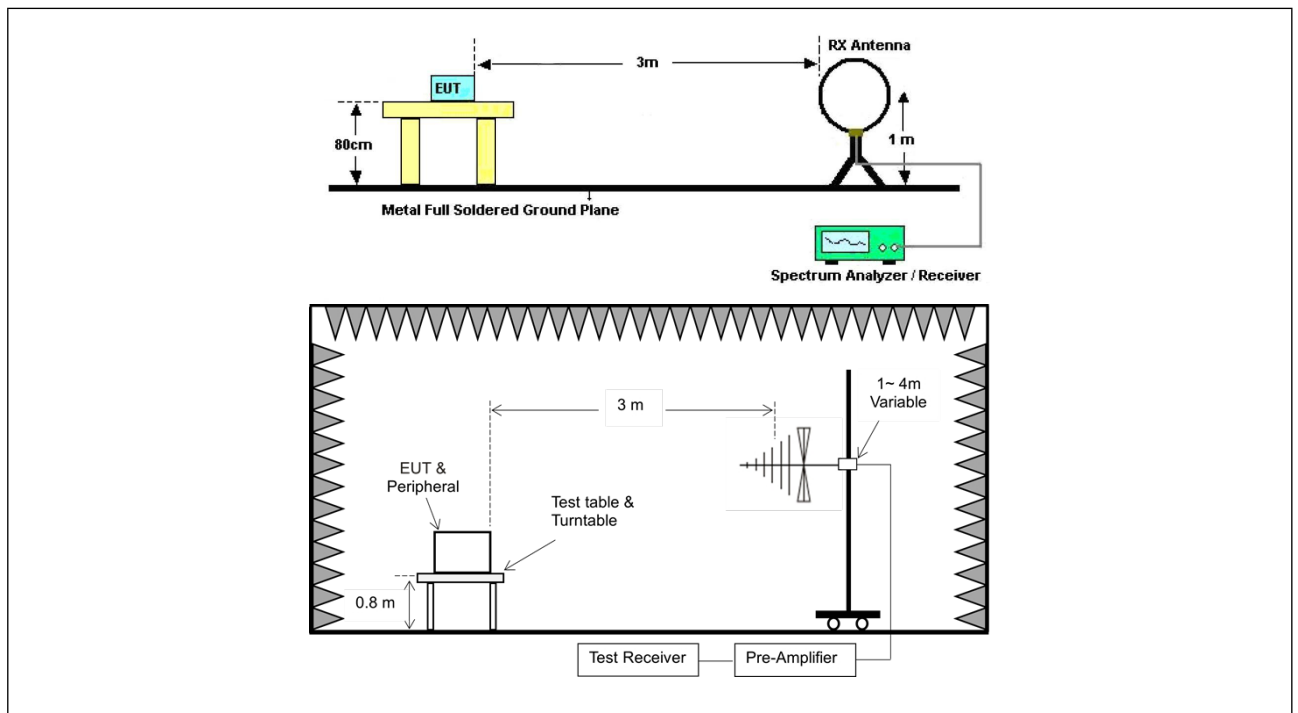
3. Emissions in restricted frequency bands (below 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`		
Test Limit:	Frequency (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
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. 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.		
Test Method:	ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020 section 6.6.4		

3.1. EUT Operation

Operating Environment:	
Test mode:	1: TX mode(BLE 1M): Keep the EUT works in continuously transmitting mode (BLE 1M) 2: TX mode(BLE 2M): Keep the EUT works in continuously transmitting mode (BLE 2M)

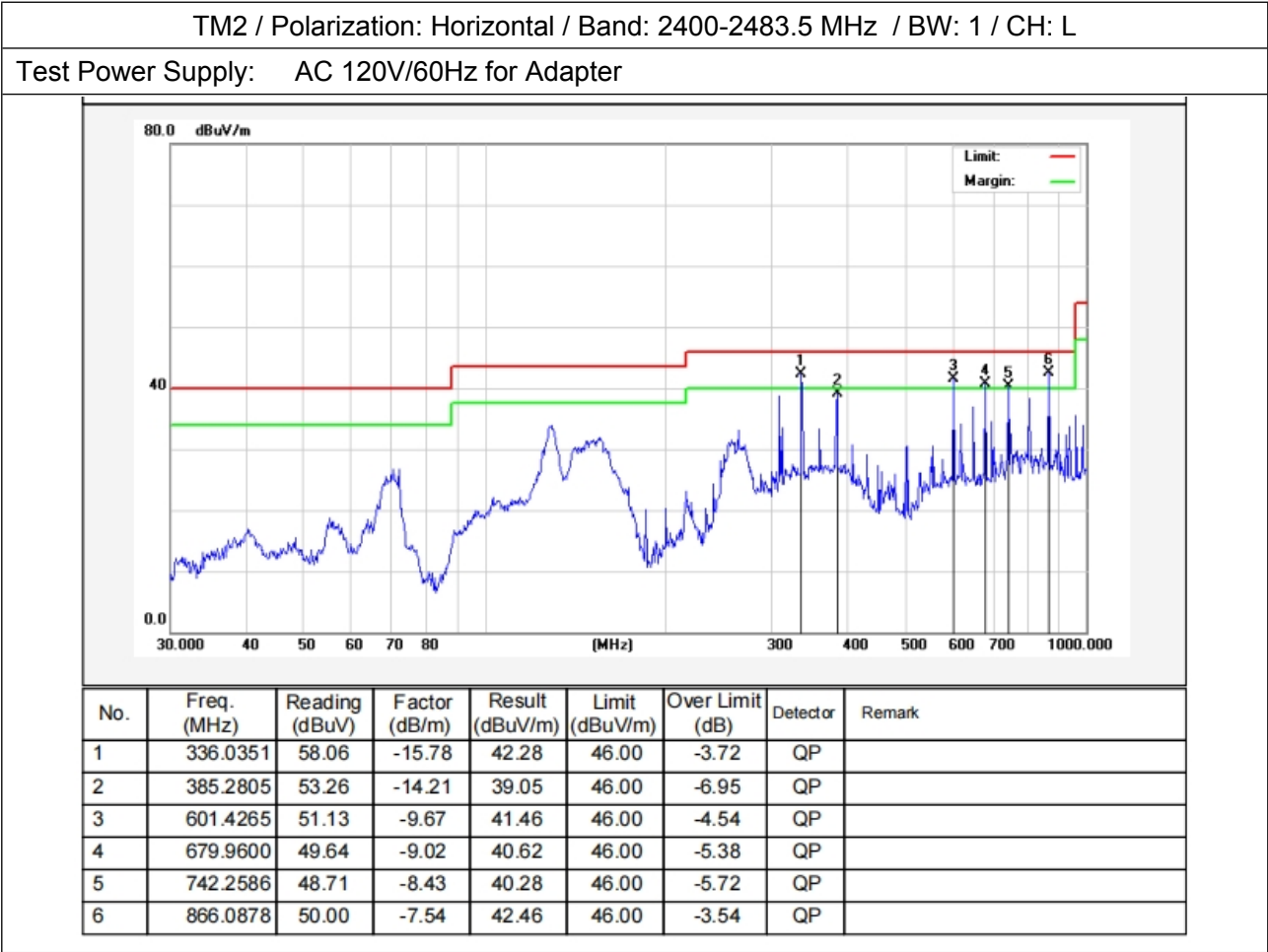
3.2. Test Setup



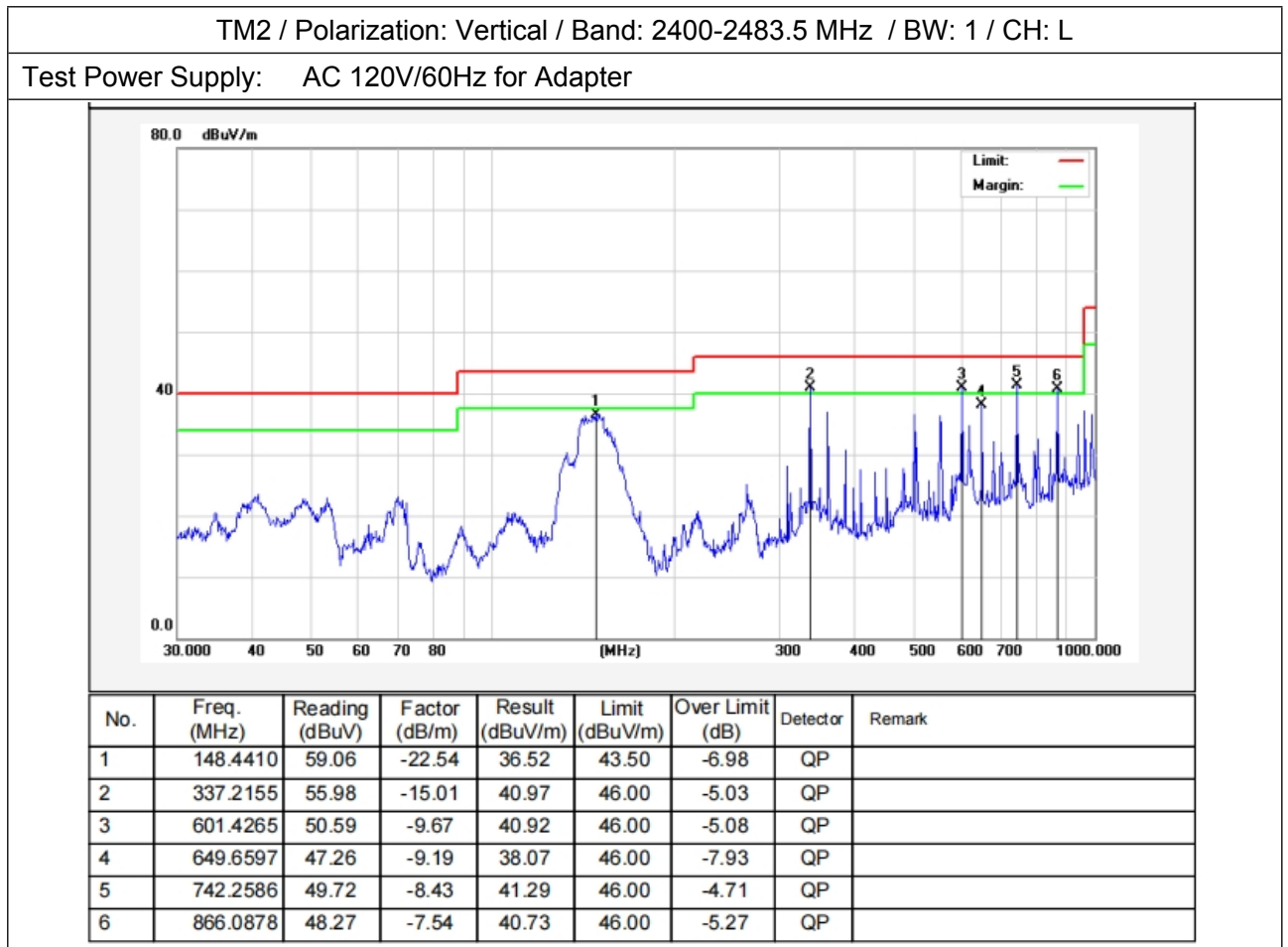
3.3. Test Data

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Temperature:	22.5 °C	Humidity:	55 %	Atmospheric Pressure:	101 kPa
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Temperature:	22.5 °C	Humidity:	55 %	Atmospheric Pressure:	101 kPa
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Note:

1. Only record the worst data in the report.
2. $\text{Result(dB}\mu\text{V/m)} = \text{Reading(dB}\mu\text{V)} + \text{Factor(dB/m)}$;
 $\text{Over Limit(dB)} = \text{Result(dB}\mu\text{V/m)} - \text{Limit(dB}\mu\text{V/m)}$

APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----