

FCC Test Report

Report No. : 1812C50356012501

Applicant : Shenzhen Shiyun Technology Co., Ltd.

Address : Room 405, Building 1, Star Center, Danzhutou
Community, Longgang District, Shenzhen,
Guangdong Province, China

Product Name : 5G industrial router

Report Date : 2025-09-04

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : Shenzhen Shiyun Technology Co., Ltd.
Manufacturer : Shenzhen Shiyun Technology Co., Ltd.
Product Name : 5G industrial router
Model No. : SY60, SY20, SY30, SY40, SY50, SY70, SY80, SY90, SY320, SY330,
SY340, SY350, SY360, SY370, SY380, SY390, S200, S300, S400, S500,
S600, D10, D20, D30, D40, D50, D60, D70, D80, D90, C10, M10
Trade Mark : 识云
Rating(s) : Input: DC 5-40V
Test Standard(s) : **FCC 47 CFR Part 15 Subpart B**
ANSI C63.4-2014

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: 2025-07-22

Date of Test: 2025-07-22 to 2025-08-04

Prepared By:

Cecilia Chen

(Cecilia Chen)

Approved & Authorized Signer:

Hugo Chen

(Hugo Chen)

1. General Information

1.1. Client Information

Applicant	:	Shenzhen Shiyun Technology Co., Ltd.
Address	:	Room 405, Building 1, Star Center, Danzhutou Community, Longgang District, Shenzhen, Guangdong Province, China
Manufacturer	:	Shenzhen Shiyun Technology Co., Ltd.
Address	:	Room 405, Building 1, Star Center, Danzhutou Community, Longgang District, Shenzhen, Guangdong Province, China
Factory	:	Shenzhen Shiyun Technology Co., Ltd.
Address	:	Room 405, Building 1, Star Center, Danzhutou Community, Longgang District, Shenzhen, Guangdong Province, China

1.2. Description of Device (EUT)

Product Name	:	5G industrial router
Model No.	:	SY60, SY20, SY30, SY40, SY50, SY70, SY80, SY90, SY320, SY330, SY340, SY350, SY360, SY370, SY380, SY390, S200, S300, S400, S500, S600, D10, D20, D30, D40, D50, D60, D70, D80, D90, C10, M10 (Note: All samples are the same except the model number, so we prepare "SY60" for test only.)
Trade Mark	:	识云
Test Power Supply	:	DC 12V from adapter input AC 120V/60Hz
Test Sample No.	:	1-1-1
Adapter	:	Manufacturer: Dongguan Gangqi Electronics Co., Ltd. Model: GQ12-120100-CU Input: 100-240V~, 50/60Hz, 0.4A Max Output: 12V=1.0A
Frequency Range	:	824.7MHz-3960.0MHz

Remark:

(1) 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.
Apple Computer MacBook M3	Apple	A3113	/
HUB	Gopod Group Holding Limited	D73737	/

1.4. Description of Test Modes

Pretest Modes	Descriptions
TM1	LAN

1.5. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.2dB
Radiated emissions (30MHz~1000MHz)	Horizontal: 3.70dB; Vertical: 4.42dB
Radiated emissions (above 1GHz)	1G-6GHz: 4.64dB; 6G-18GHz: 4.82dB
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.	

1.6. Test Summary

Test Items	Test Modes	Status
Conducted emissions on AC mains	Mode1	P
Radiated emissions (Below 1GHz)	Mode1	P
Radiated emissions (Above 1GHz)	Mode1	P
Note: P: Pass N: N/A, not applicable		

1.7. 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.

1.8. 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.

1.9. Test Equipment List

Conducted emissions on AC mains						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-09-09	2025-09-08
2	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	/	/
3	EMI Test Receiver(CE2#)	Rohde & Schwarz	ESPI3	100926	2024-09-09	2025-09-08
4	Three Phase V-type Artificial Power Network LISN 200A	EMtrace	PWL-50-3200A	2404	2025-02-21	2026-02-20

Radiated emissions (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	2022-10-23	2025-10-22
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	/	/

Radiated emissions (Above 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	EMI Preamplifier	SKET Electronic	LNPA-0118G-45	SKET-PA-002	2025-01-13	2026-01-12
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	/	/
5	Horn Antenna (18G - 40G)	A-INFO	LB-180400-KF	J2110606 28	2024-01-22	2027-01-21

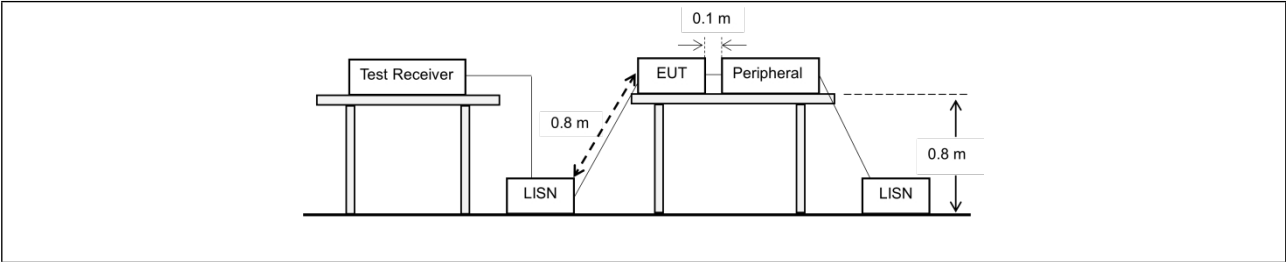
2. Conducted emissions on AC mains

Test Requirement:	15.107, Class B		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dBμV)	
		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:	FCC 47 CFR Part 15 Subpart B		
Procedure:	An initial pre-scan was performed with peak detector.Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected. Remark: $\text{Result(dB}\mu\text{V)} = \text{Reading(dB}\mu\text{V)} + \text{Factor(dB)}$; $\text{Over Limit(dB)} = \text{Result(dB}\mu\text{V)} - \text{Limit(dB}\mu\text{V)}$		

2.1. EUT Operation

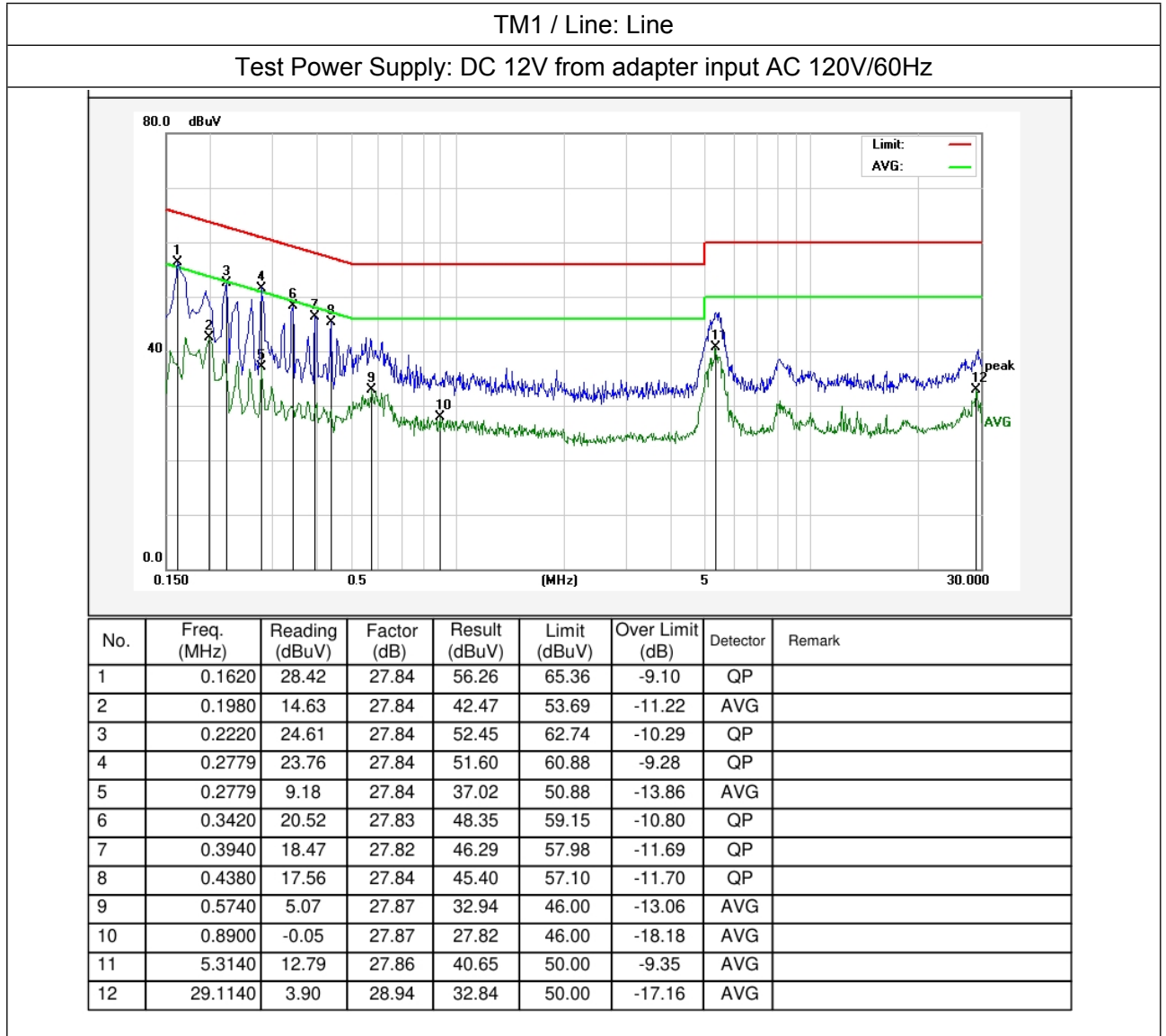
Operating Environment:	
Test mode:	1: TM1: LAN

2.2. Test Setup



2.3. Test Data

Temperature:	25.1 °C	Humidity:	59 %	Atmospheric Pressure:	101 kPa
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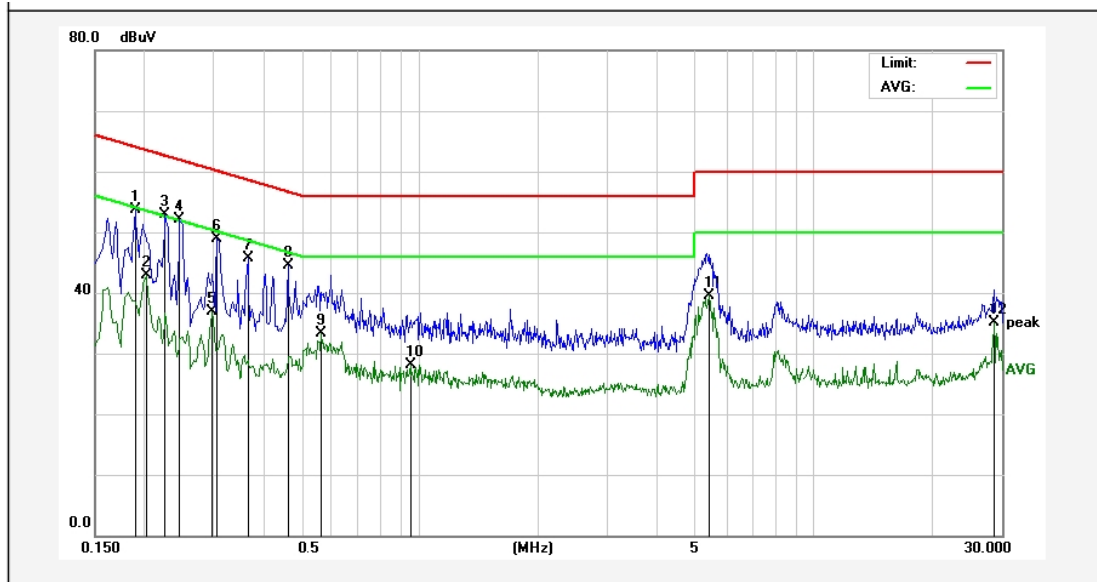
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Temperature:	25.1 °C	Humidity:	59 %	Atmospheric Pressure:	101 kPa
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TM1 / Line: Neutral

Test Power Supply: DC 12V from adapter input AC 120V/60Hz



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1900	25.88	27.84	53.72	64.03	-10.31	QP	
2	0.2020	15.09	27.84	42.93	53.52	-10.59	AVG	
3	0.2260	25.07	27.84	52.91	62.59	-9.68	QP	
4	0.2460	24.21	27.84	52.05	61.89	-9.84	QP	
5	0.2980	9.02	27.84	36.86	50.30	-13.44	AVG	
6	0.3060	21.09	27.84	48.93	60.08	-11.15	QP	
7	0.3660	17.90	27.83	45.73	58.59	-12.86	QP	
8	0.4620	16.67	27.84	44.51	56.66	-12.15	QP	
9	0.5660	5.52	27.87	33.39	46.00	-12.61	AVG	
10	0.9500	0.33	27.86	28.19	46.00	-17.81	AVG	
11	5.4220	11.74	27.86	39.60	50.00	-10.40	AVG	
12	28.6860	6.16	28.97	35.13	50.00	-14.87	AVG	

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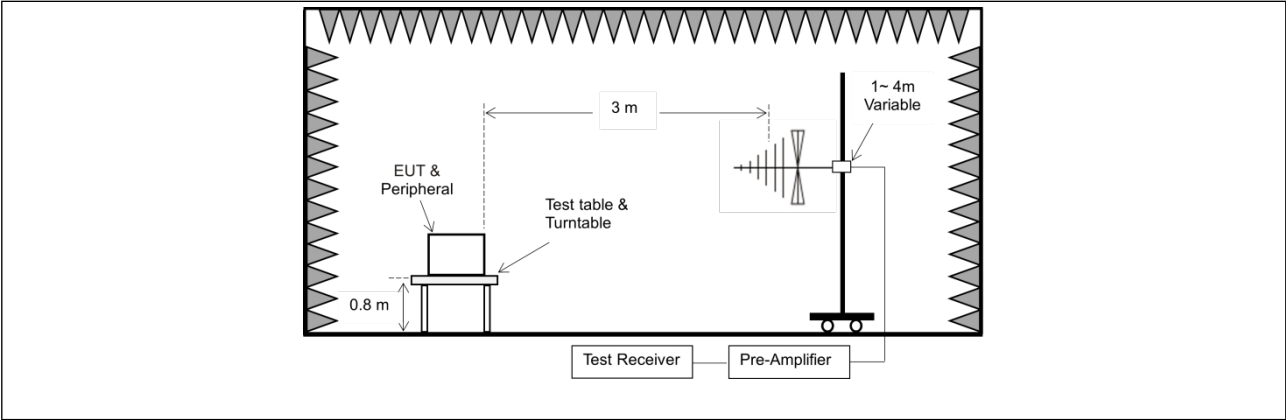
3. Radiated emissions (Below 1GHz)

Test Requirement:	15.109, Class B				
Test Limit:	Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:				
	Frequency of emission (MHz)	Field strength @3m		Field strength @10m	
		(uV/m)	(dBuV/m)	(uV/m)	(dBuV/m)
	30 – 88	100	40	30	29.5
	88 – 216	150	43.5	45	33.1
	216 – 960	200	46	60	35.6
	Above 960	500	54	150	43.5
Test Method:	FCC 47 CFR Part 15 Subpart B				
Procedure:	<p>An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.</p> <p>Remark: $\text{Result(dB}\mu\text{V/m)} = \text{Reading(dB}\mu\text{V)} + \text{Factor(dB/m)}$; $\text{Over Limit(dB)} = \text{Result(dB}\mu\text{V/m)} - \text{Limit(dB}\mu\text{V/m)}$ </p>				

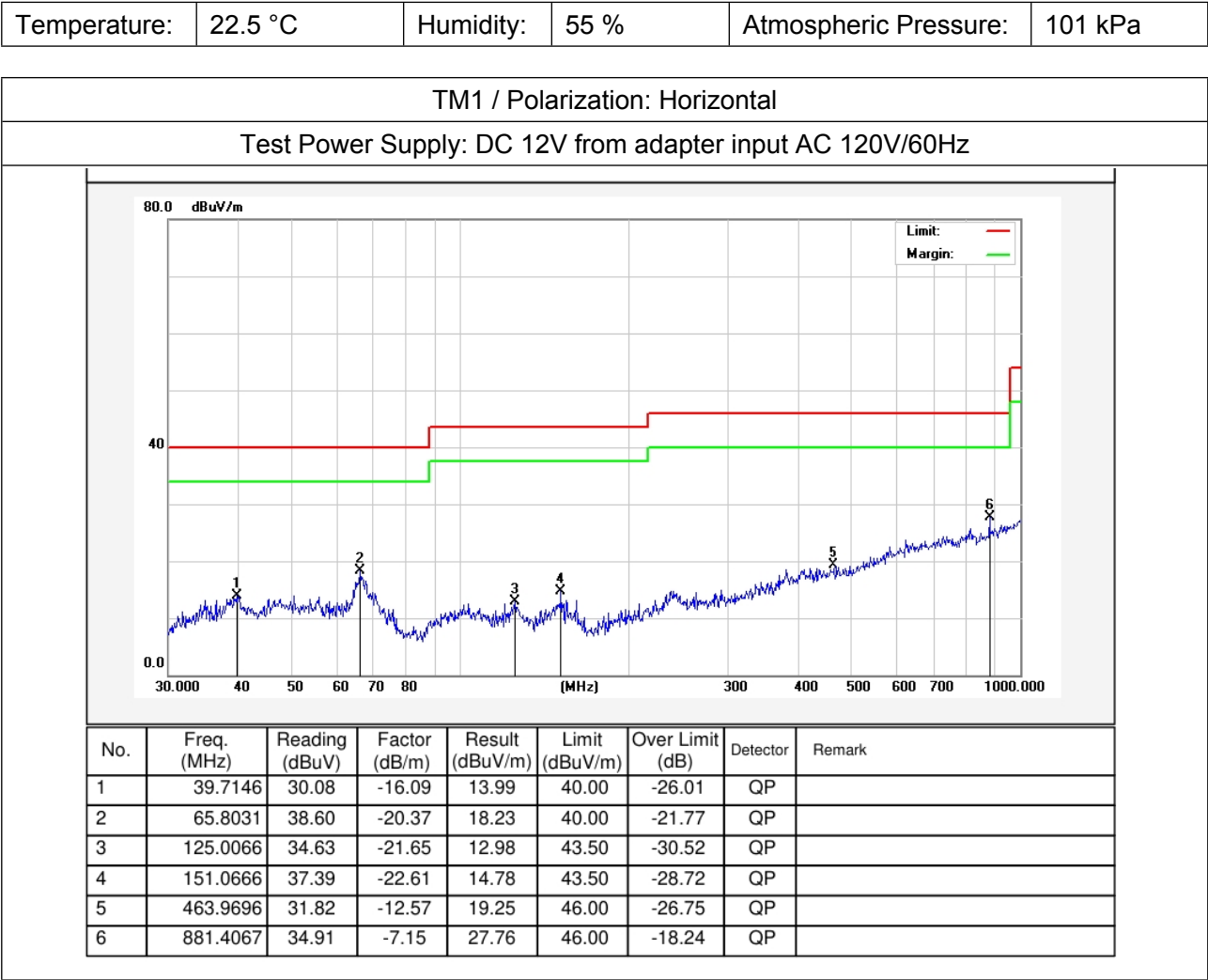
3.1. EUT Operation

Operating Environment:	
Test mode:	1: TM1: LAN

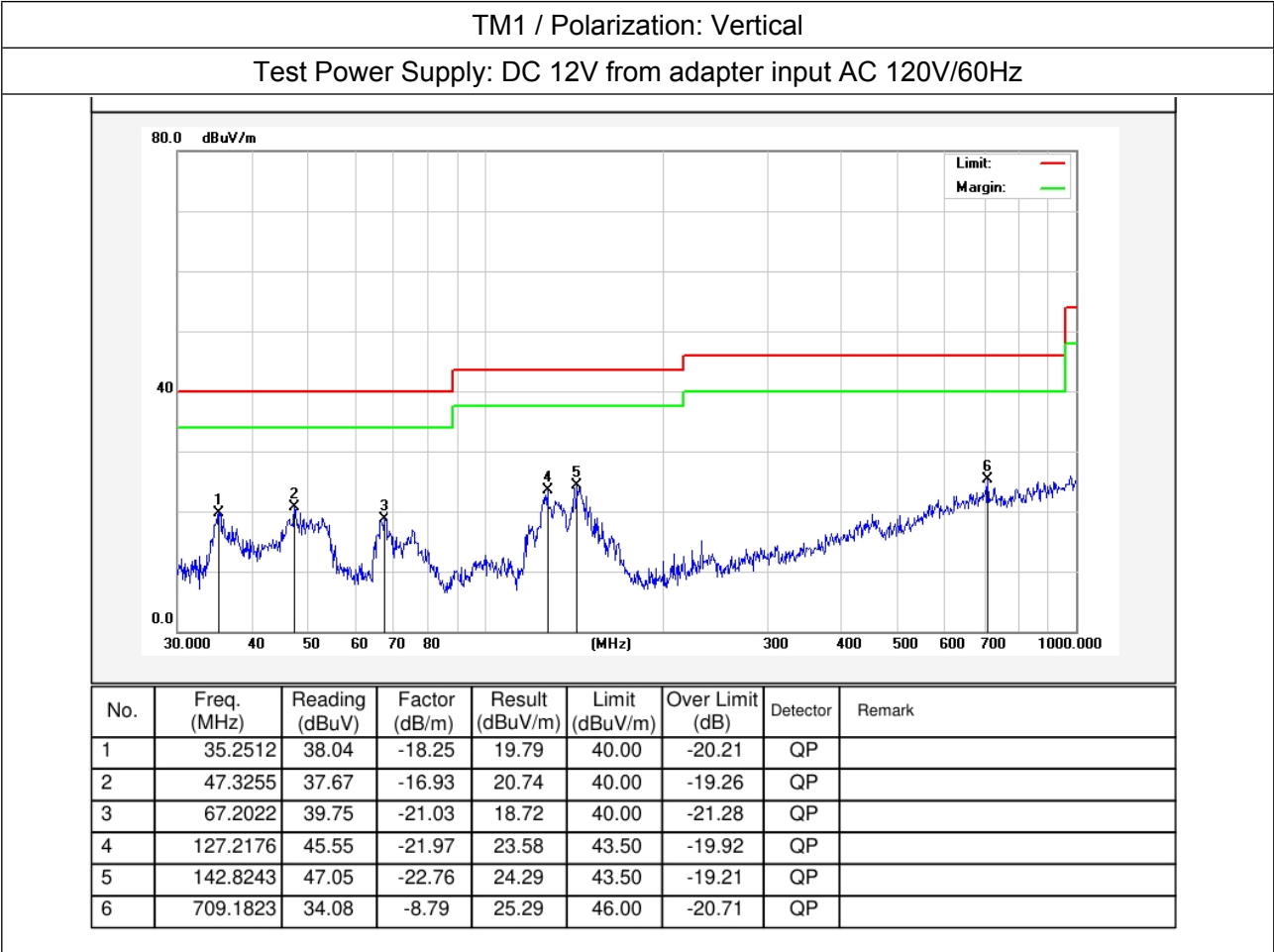
3.2. Test Setup



3.3. Test Data



Temperature:	22.5 °C	Humidity:	55 %	Atmospheric Pressure:	101 kPa
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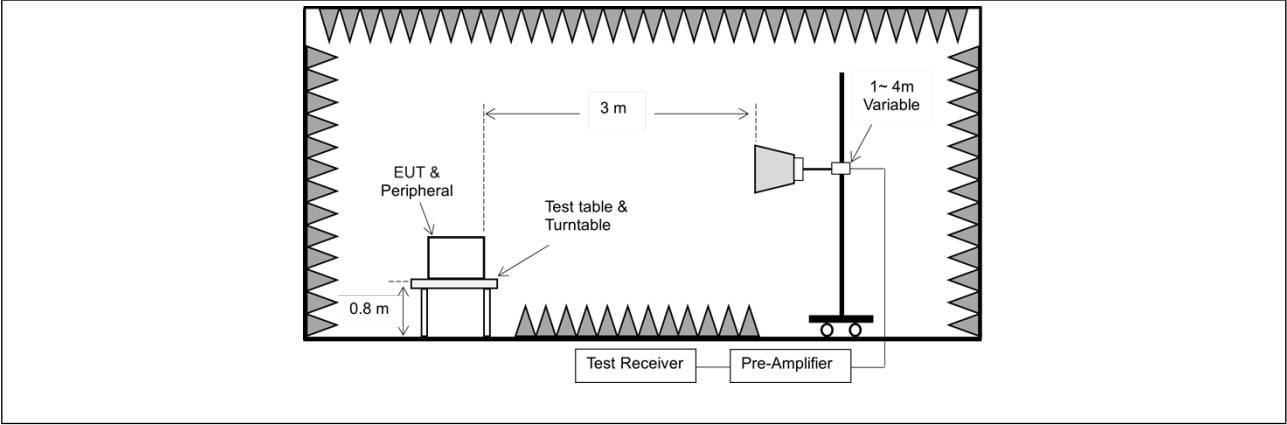
4. Radiated emissions (Above 1GHz)

Test Requirement:	15.109, Class B			
Test Limit:	Frequency of emission (MHz)	Field strength @3m		
		Average (uV/m)	Average(dBuV/m)	Peak (dBuV/m)
	Above 1GHz	500	54	74
Test Method:	FCC 47 CFR Part 15 Subpart B			
Procedure:	<p>An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. For below 1GHz test, Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. For above 1GHz test, Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.</p> <p>Remark: Result(dBuV/m) = Reading(dBuV) + Factor(dB/m); Over Limit(dB) = Result(dBuV/m) - Limit(dBuV/m)</p>			

4.1. EUT Operation

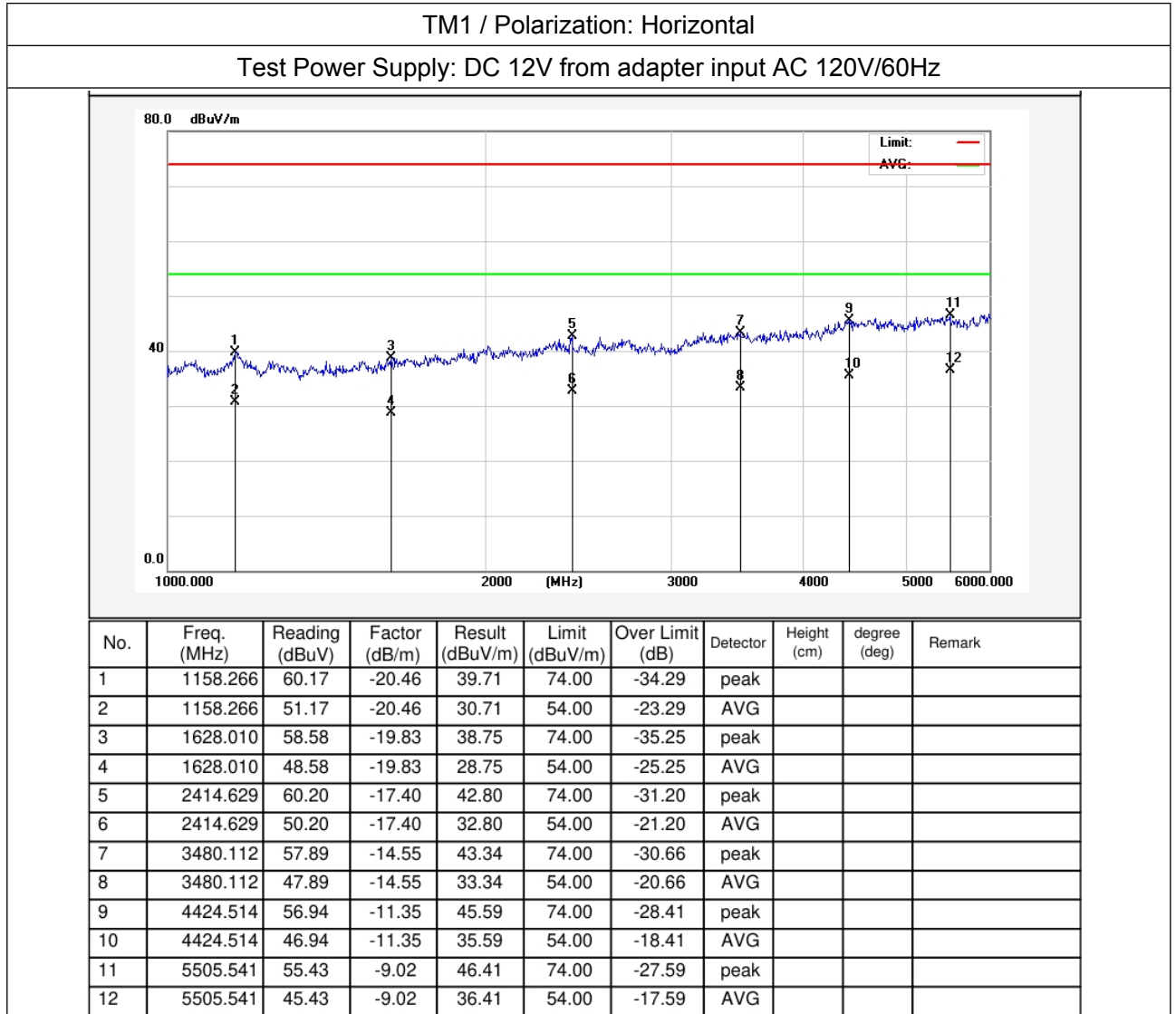
Operating Environment:	
Test mode:	1: TM1: LAN

4.2. Test Setup

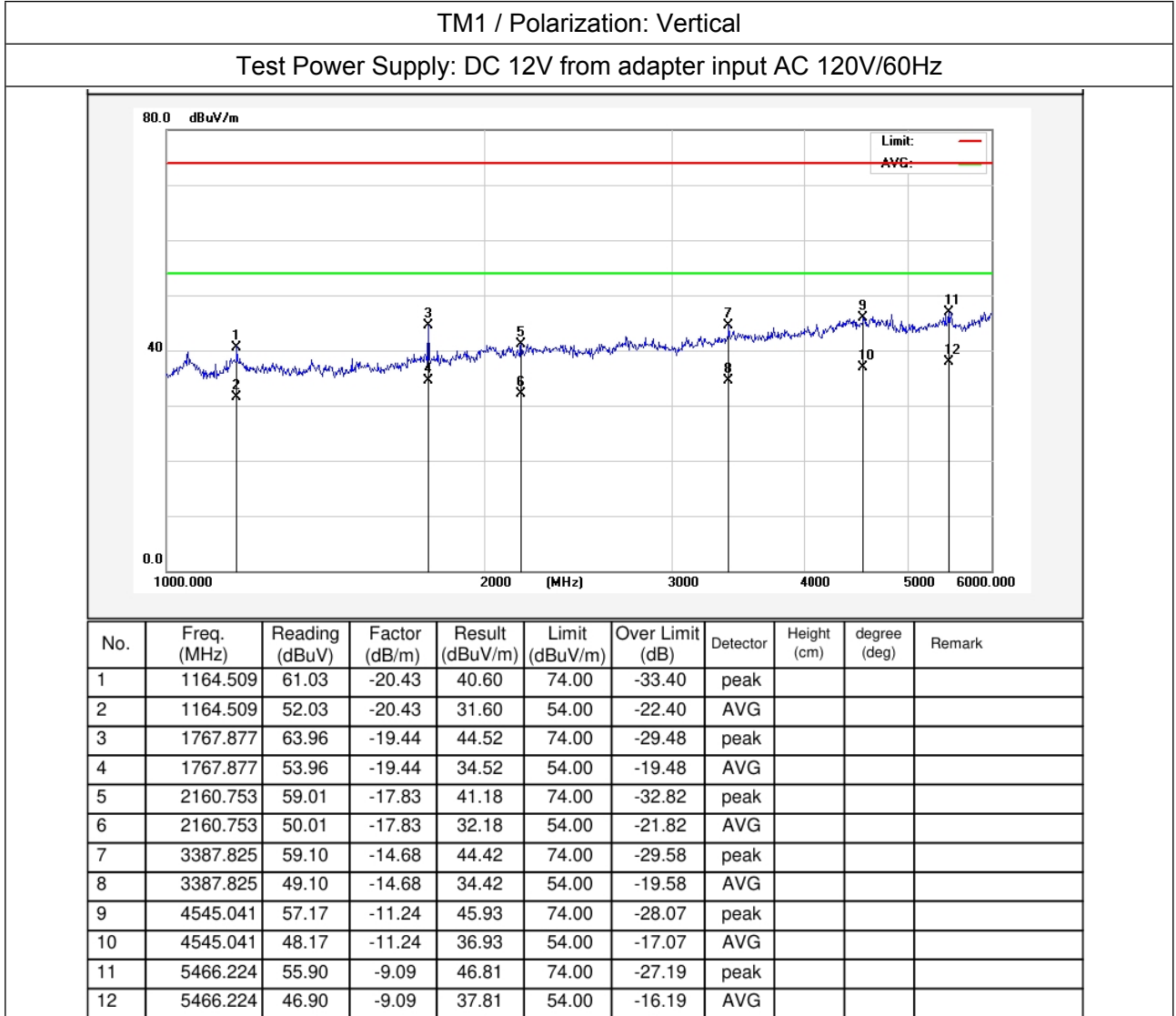


4.3. Test Data

Temperature:	24.2 °C	Humidity:	51 %	Atmospheric Pressure:	101 kPa
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Temperature:	24.2 °C	Humidity:	51 %	Atmospheric Pressure:	101 kPa
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Note:

1. The test reached 10 times the highest frequency (39600.151MHz).
2. The data above 6GHz has a margin of more than 20dB, so it is not recorded in the report.

APPENDIX I -- TEST SETUP PHOTOGRAPH

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

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 -----