

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

Shenzhen Anbotek Compliance Laboratory Limited

Any unauthorized modification, forgery, or falsification of this document constitutes a violation of law and is subject to legal penalties. If you have any questions, you may scan the QR code to download the report for verification or contact us via email.

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



Contents

1. General Information	4
1.1. Client Information	4
1.2. Description of Device (EUT)	4
1.3. Auxiliary Equipment Used During Test	5
1.4. Description of Test Modes	5
1.5. Measurement Uncertainty	5
1.6. Test Summary	5
1.7. Description of Test Facility	6
1.8. Disclaimer	6
1.9. Test Equipment List	7
2. Conducted emissions on AC mains	8
2.1. EUT Operation	8
2.2. Test Setup	8
2.3. Test Data	9
3. Radiated emissions (Below 1GHz)	11
3.1. EUT Operation	11
3.2. Test Setup	11
3.3. Test Data	12
4. Radiated emissions (Above 1GHz)	14
4.1. EUT Operation	14
4.2. Test Setup	14
4.3. Test Data	15
APPENDIX I -- TEST SETUP PHOTOGRAPH	17
APPENDIX II -- EXTERNAL PHOTOGRAPH	17
APPENDIX III -- INTERNAL PHOTOGRAPH	17

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)

Approved & Authorized Signer:



(Hugo Chen)

Shenzhen Anbotek Compliance Laboratory Limited

Any unauthorized modification, forgery, or falsification of this document constitutes a violation of law and is subject to legal penalties. If you have any questions, you may scan the QR code to download the report for verification or contact us via email.

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

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.		

Shenzhen Anbotek Compliance Laboratory Limited

Any unauthorized modification, forgery, or falsification of this document constitutes a violation of law and is subject to legal penalties. If you have any questions, you may scan the QR code to download the report for verification or contact us via email.

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

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.

Shenzhen Anbotek Compliance Laboratory Limited

Any unauthorized modification, forgery, or falsification of this document constitutes a violation of law and is subject to legal penalties. If you have any questions, you may scan the QR code to download the report for verification or contact us via email.

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

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

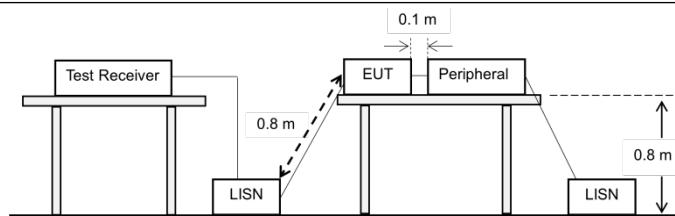
Test Requirement:	15.107, Class B		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	*Decreases with the logarithm of the frequency.		
Test Method:	FCC 47 CFR Part 15 Subpart B		
Procedure:	<p>An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.</p> <p>Remark: $\text{Result(dB}\mu\text{V)} = \text{Reading(dB}\mu\text{V)} + \text{Factor(dB)}$; $\text{Over Limit(dB)} = \text{Result(dB}\mu\text{V)} - \text{Limit(dB}\mu\text{V)}$</p>		

2.1. EUT Operation

Operating Environment:

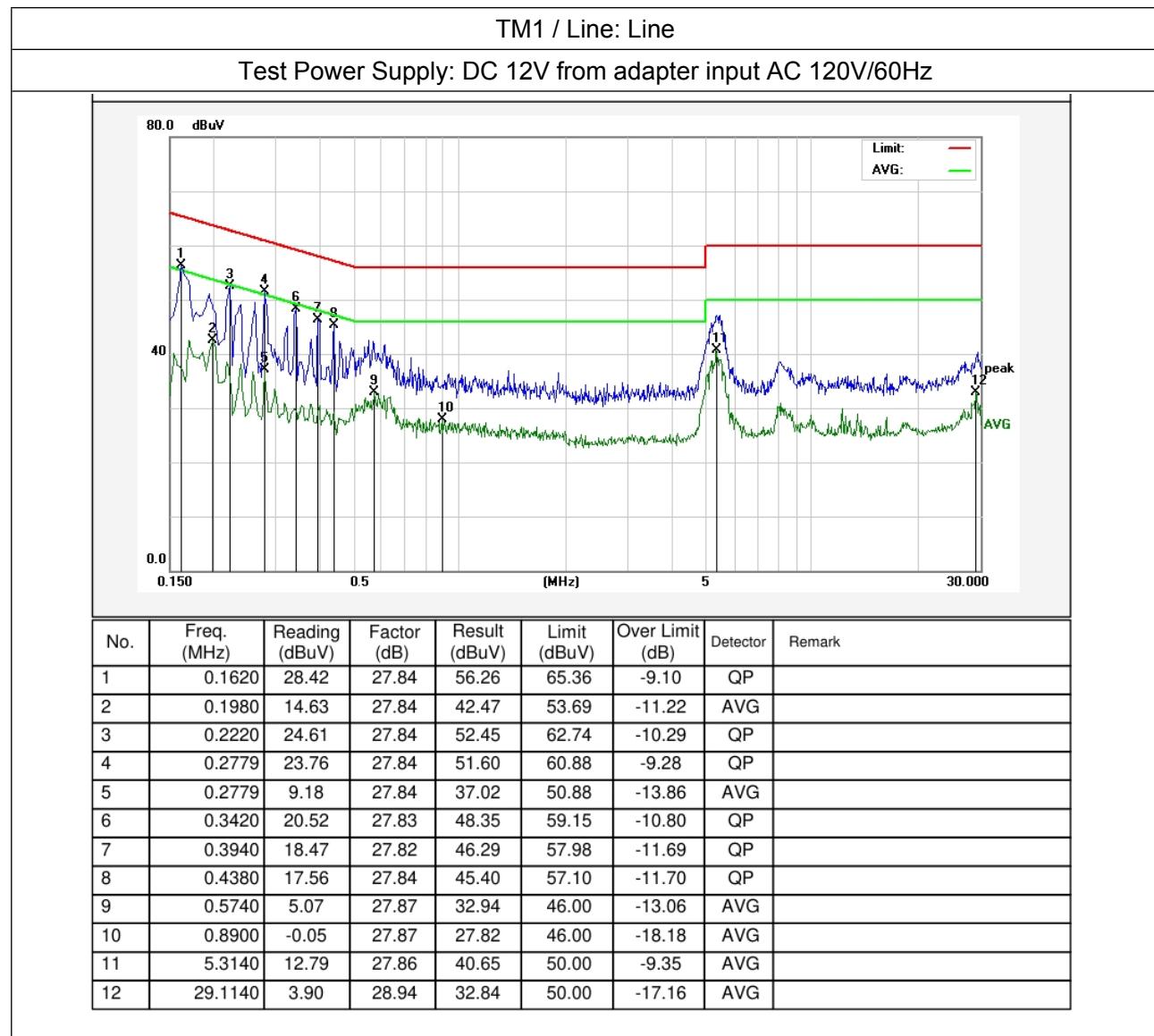
Test mode: 1: TM1: LAN

2.2. Test Setup

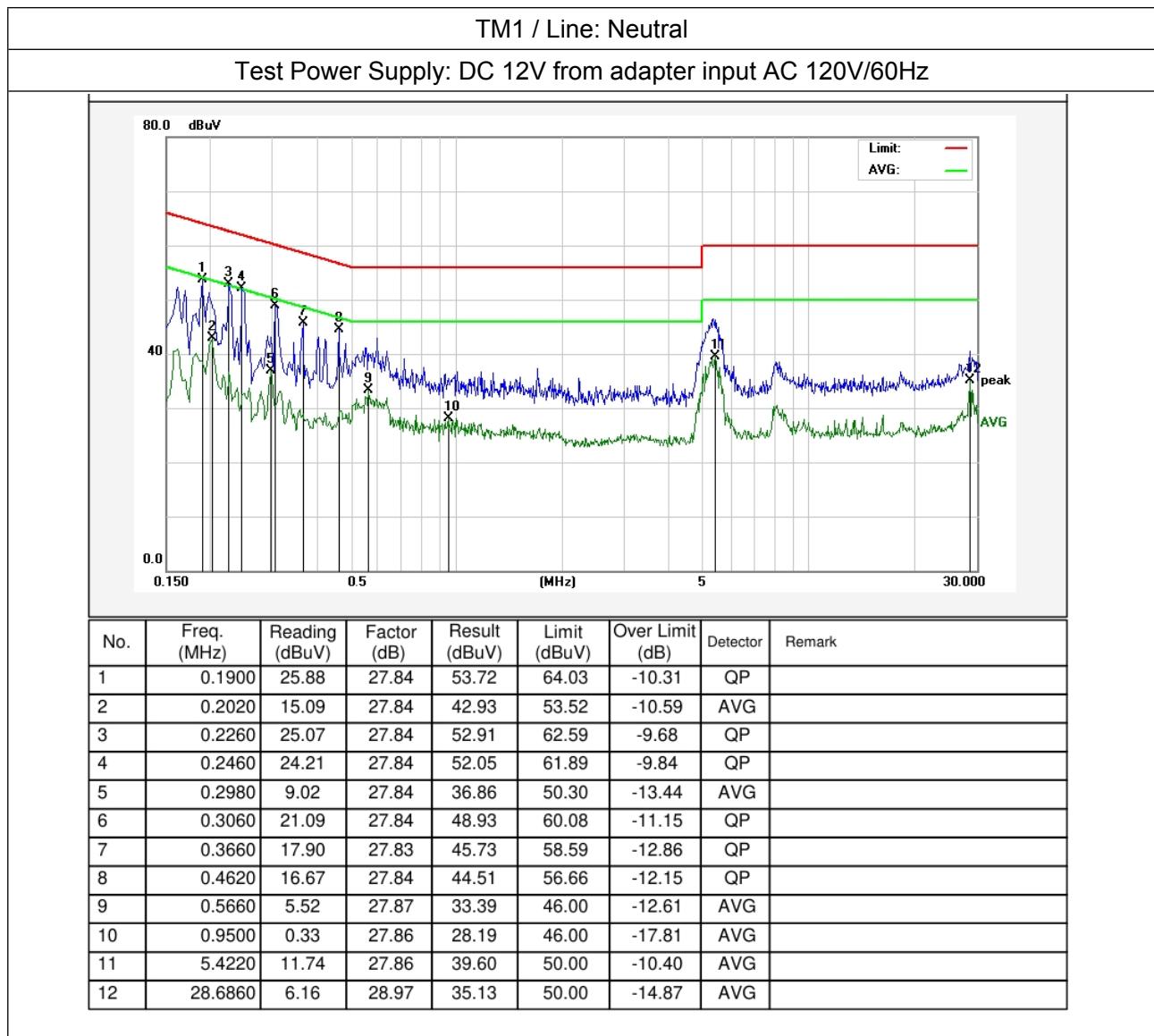


2.3. Test Data

Temperature:	25.1 °C	Humidity:	59 %	Atmospheric Pressure:	101 kPa
--------------	---------	-----------	------	-----------------------	---------



Temperature:	25.1 °C	Humidity:	59 %	Atmospheric Pressure:	101 kPa
--------------	---------	-----------	------	-----------------------	---------



Shenzhen Anbotek Compliance Laboratory Limited

Any unauthorized modification, forgery, or falsification of this document constitutes a violation of law and is subject to legal penalties. If you have any questions, you may scan the QR code to download the report for verification or contact us via email.

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

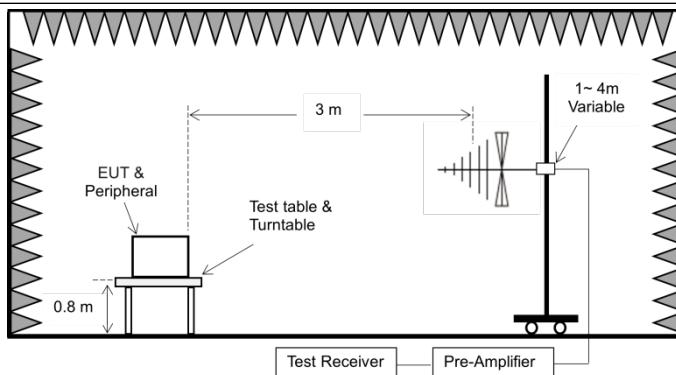
3. Radiated emissions (Below 1GHz)

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)
30 – 88		100	40	30
88 – 216		150	43.5	45
216 – 960		200	46	60
Above 960		500	54	150
Test Method:	FCC 47 CFR Part 15 Subpart B			
Procedure:	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. Remark: Result(dB μ V/m) = Reading(dB μ V) + Factor(dB/m); Over Limit(dB) = Result(dB μ V/m) - Limit(dB μ V/m)			

3.1. EUT Operation

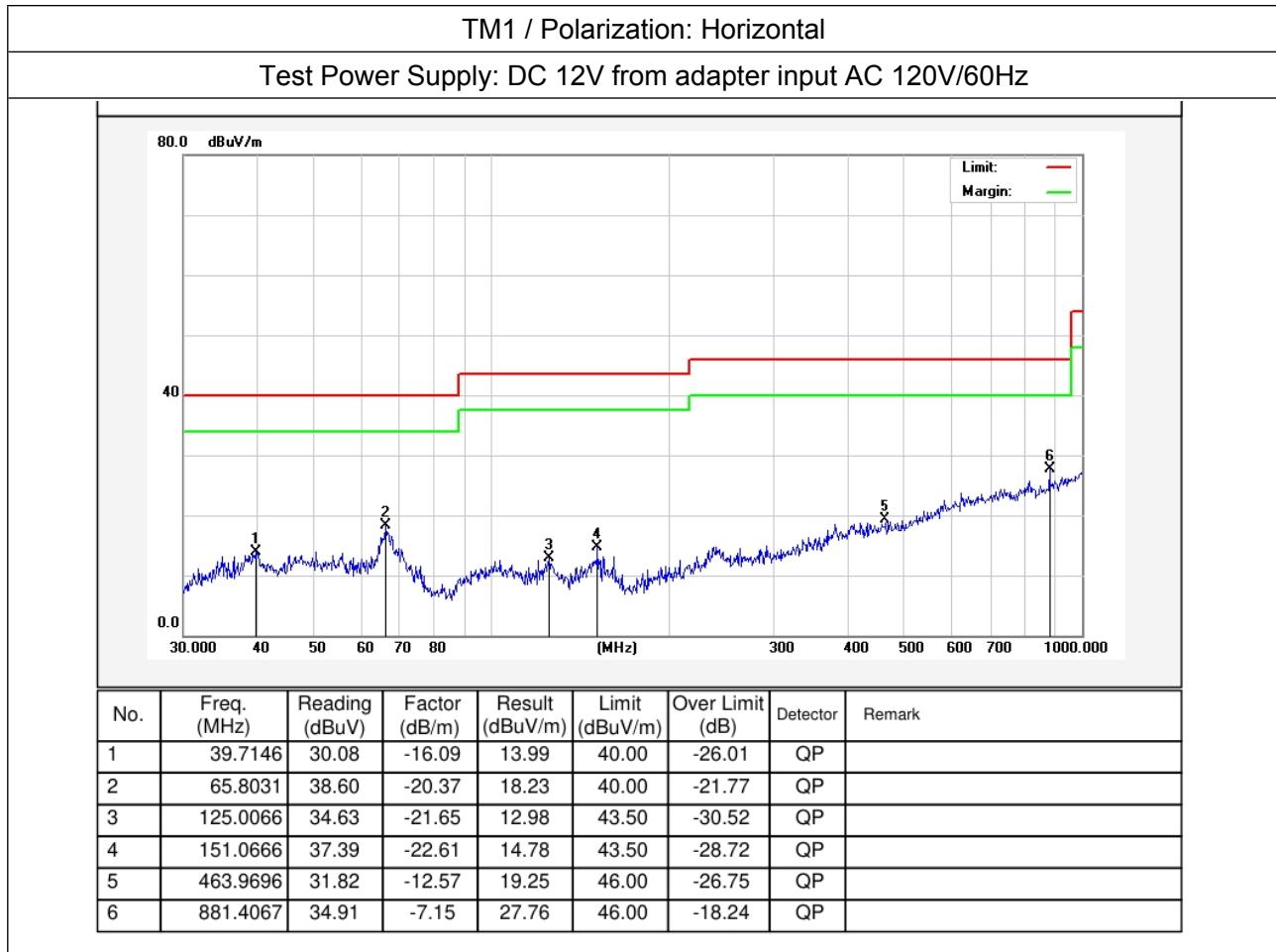
Operating Environment:		
Test mode:	1: TM1: LAN	

3.2. Test Setup

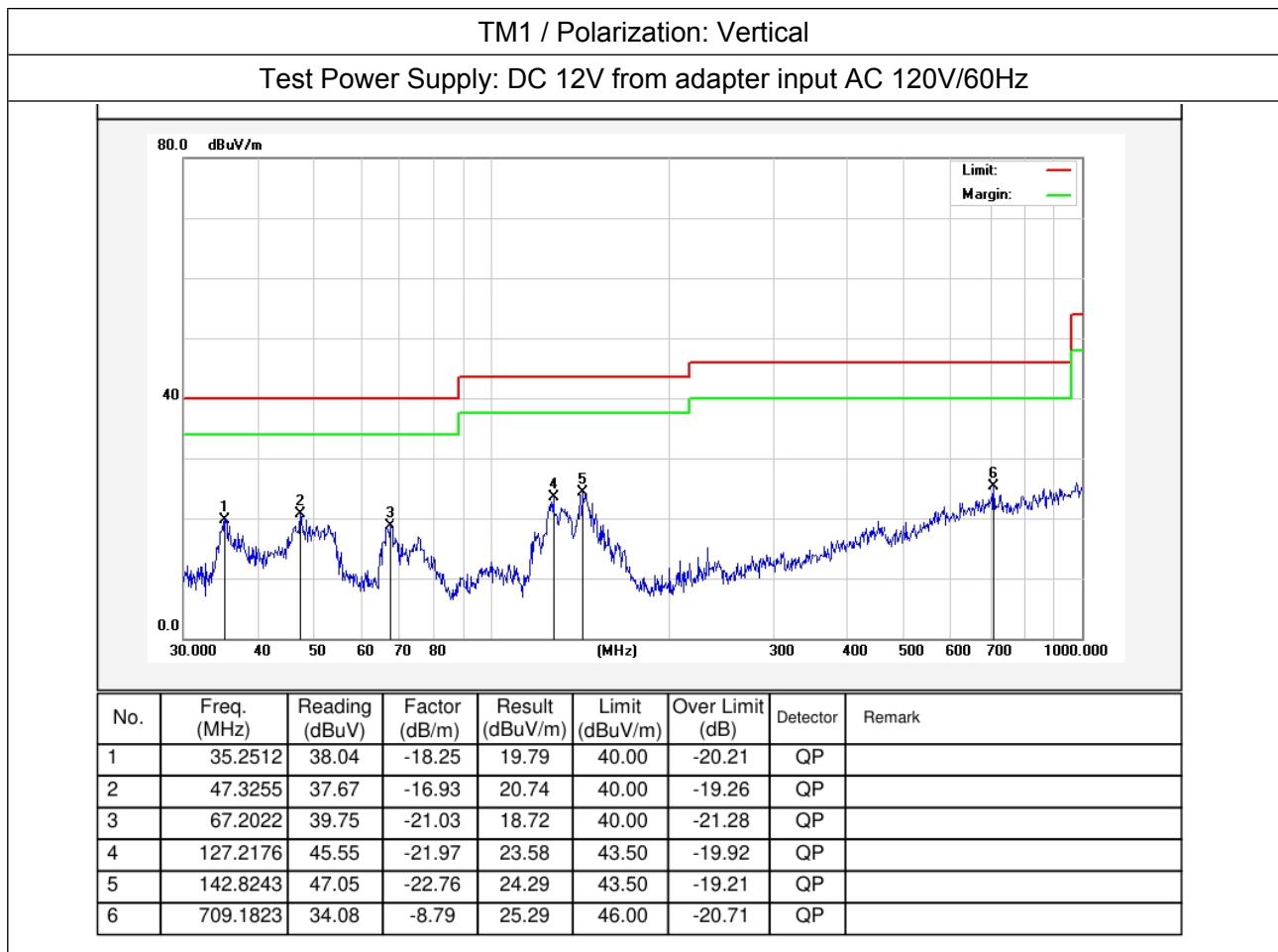


3.3. Test Data

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



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



Shenzhen Anbotek Compliance Laboratory Limited

Any unauthorized modification, forgery, or falsification of this document constitutes a violation of law and is subject to legal penalties. If you have any questions, you may scan the QR code to download the report for verification or contact us via email.

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

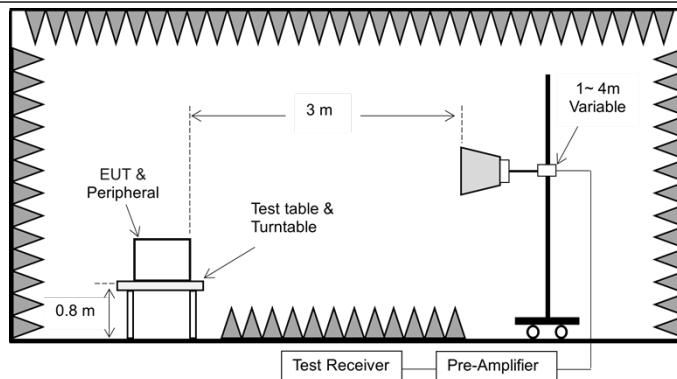
4. Radiated emissions (Above 1GHz)

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:</p> <p>Result(dBμV/m) = Reading(dBμV) + Factor(dB/m); Over Limit(dB) = Result(dBμV/m) - Limit(dBμV/m)</p>			

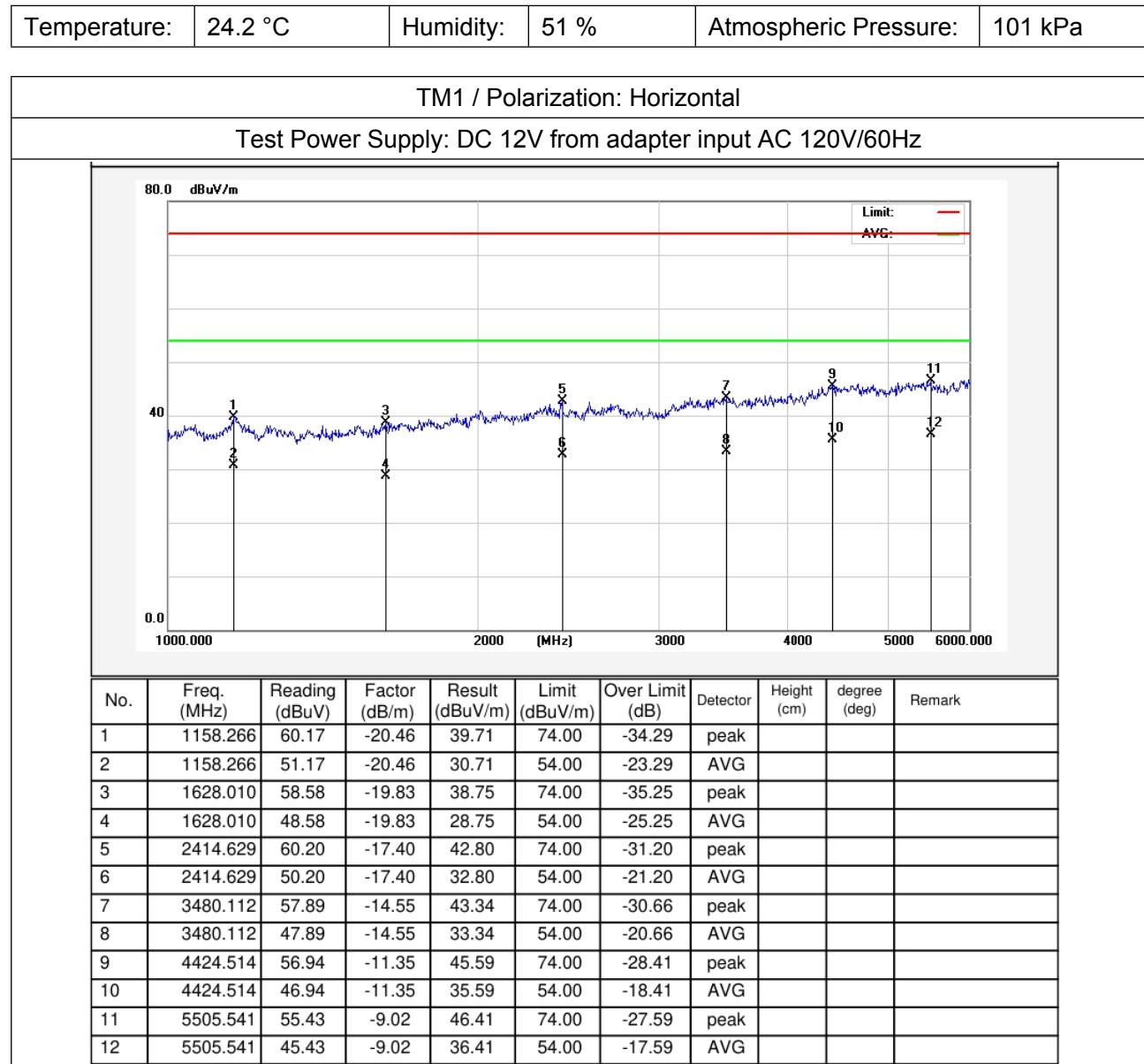
4.1. EUT Operation

Operating Environment:		
Test mode:	1: TM1: LAN	

4.2. Test Setup



4.3. Test Data

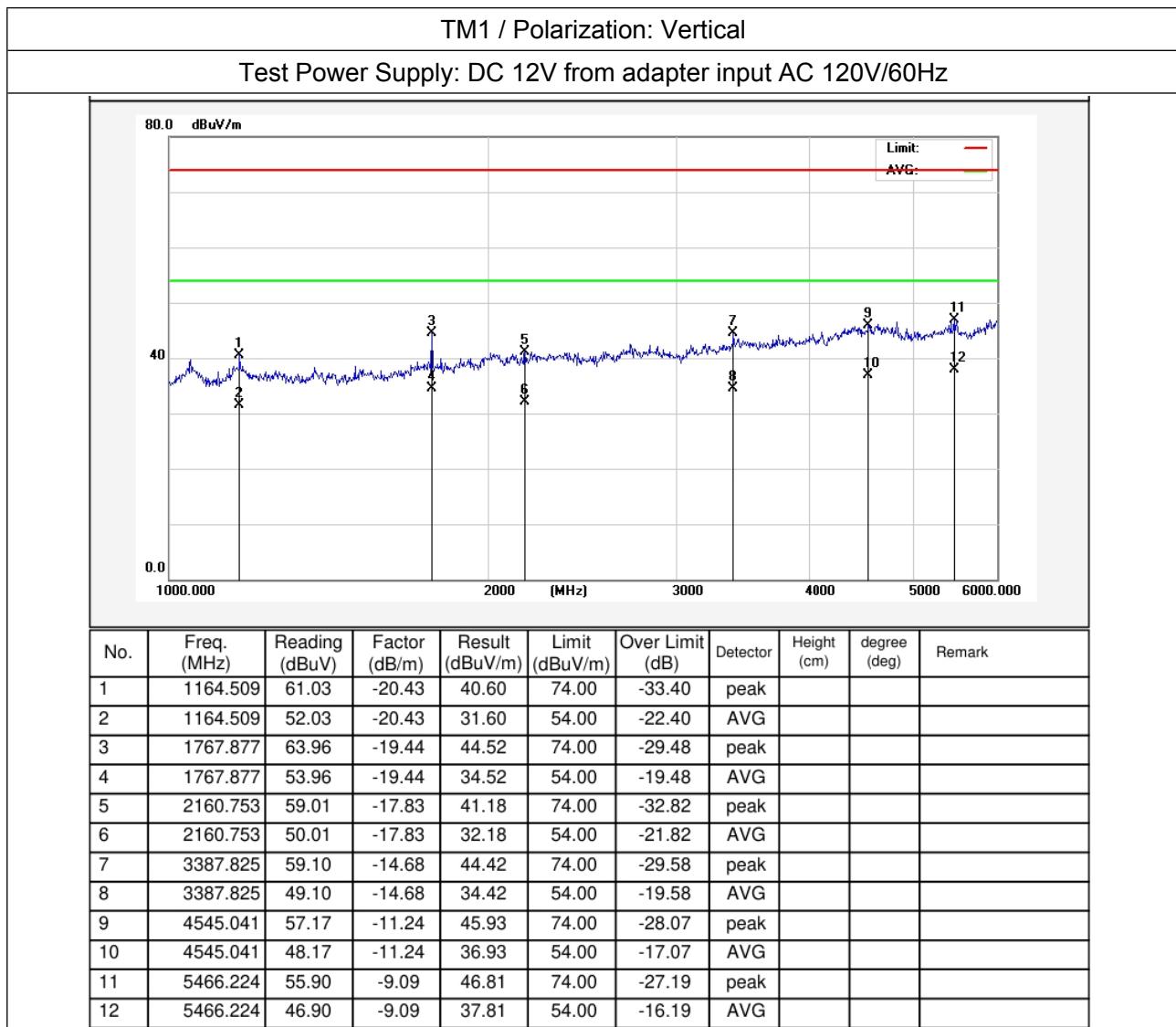


Shenzhen Anbotek Compliance Laboratory Limited

Any unauthorized modification, forgery, or falsification of this document constitutes a violation of law and is subject to legal penalties. If you have any questions, you may scan the QR code to download the report for verification or contact us via email.

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

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



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.

Shenzhen Anbotek Compliance Laboratory Limited

Any unauthorized modification, forgery, or falsification of this document constitutes a violation of law and is subject to legal penalties. If you have any questions, you may scan the QR code to download the report for verification or contact us via email.

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

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 -----