

FCC Test Report

Report No. : 1812C60378312501

Applicant : Shenzhen Retevis Technology Co., Ltd.

Address : 7/F, 13-C, Zhonghaixin Science&Technology
Park, No.12 Ganli 6th Road, Jihua Street,
Longgang District, Shenzhen, China

Product Name : FM RECEIVER

Report Date : 2026-09-02

Shenzhen Anbotek Compliance Laboratory Limited



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 Mode(s)	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)	16
4.1. EUT Operation	16
4.2. Test Setup	16
4.3. Test Data	17
APPENDIX I -- TEST SETUP PHOTOGRAPH	19
APPENDIX II -- EXTERNAL PHOTOGRAPH	19
APPENDIX III -- INTERNAL PHOTOGRAPH.....	19

TEST REPORT

Applicant : Shenzhen Retevis Technology Co., Ltd.
Manufacturer : HONG KONG RETEKESS CO.,LIMITED
Product Name : FM RECEIVER
Model No. : TA004, TA004P, TA004A
Trade Mark : RETEKESS
Rating(s) : Input: 5V=1A
Battery Capacity: 3.7VDC, 1000mAh
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: 2026-07-02

Date of Test: 2026-07-02 to 2026-07-31

Prepared By:

Cecilia Chen

(Cecilia Chen)

Approved & Authorized Signer:

Jules Guo

(Jules Guo)

1. General Information

1.1. Client Information

Applicant	:	Shenzhen Retevis Technology Co., Ltd.
Address	:	7/F, 13-C, Zhonghaixin Science&Technology Park, No.12 Ganli 6th Road, Jihua Street, Longgang District, Shenzhen, China
Manufacturer	:	HONG KONG RETEKESS CO.,LIMITED
Address	:	FLAT/RM 1019B 10/F LIVEN HOUSE NO.61-63 KING YIP STREET KWUN TONG KL, HONGKONG, CHINA

1.2. Description of Device (EUT)

Product Name	:	FM RECEIVER
Model No.	:	TA004, TA004P, TA004A (Note: All samples are the same except the model number, so we prepare "TA004" for test only.)
Trade Mark	:	RETEKESS
Test Power Supply	:	5VDC from adapter input 120VAC/60Hz; 3.7VDC Battery inside
Test Sample No.	:	1-1-1
Adapter	:	N/A
RF Specification		
Operation Band	:	863.3MHz, 863.9MHz, 864.9MHz(Only RX)
Modulation Type	:	FM
Antenna Type	:	Monopole Antenna
Antenna Gain	:	-0.83dBi
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.
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J
HUAWEI Honor Mobile	HUAWEI	JAT-AL00	TMENW19925001206

1.4. Description of Test Mode(s)

Test Mode(s)	Description(s)
TM1	Type-C Charging+AUX+FM RX Mode (5VDC from adapter input 120VAC/60Hz)
TM2	Working+AUX+FM RX Mode (3.7VDC Battery inside)

1.5. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	2.8dB
Radiated emissions (30MHz~1000MHz)	Horizontal: 3.94dB; Vertical: 4.34dB
Radiated emissions (above 1GHz)	1G-6GHz: 4.22dB; 6G-18GHz:4.14dB; 18G-40GHz: 5.58dB
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 Mode(s)	Status
Conducted emissions on AC mains	Mode1	P
Radiated emissions (Below 1GHz)	Mode1,2	P
Radiated emissions (Above 1GHz)	Mode1,2	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 effect that the results relate only to the items tested.
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. This report shall not be reproduced except in full without approval of the anbotek.
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.
8. Unless otherwise specified, use the binary decision rule of simple acceptance ($w=0$) for conformity determination with reference to ILAC-G8:09/2019.

1.9. Test Equipment List

Conducted emissions on AC mains					
Item	Equipment	Manufacturer	Model No.	Last Cal.	Cal.Due Date
1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	2025-09-05	2026-09-04
2	Software Name EZ-EMC	Farad Technology	ANB-03A	/	/
3	EMI Test Receiver(CE2#)	Rohde & Schwarz	ESC13	2025-12-29	2026-12-28
4	Three Phase V-type Artificial Power Network LISN 200A	EMtrace	PWL-50-3200A	2025-12-29	2026-12-28
5	10dB Attenuator	Emtrace	10dB100W	2025-12-29	2026-12-28
6	Pulse limiter	EMtrace	PL00903-2#	2025-12-29	2026-12-28

Radiated emissions (Below 1GHz)					
Item	Equipment	Manufacturer	Model No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver(RE2/3#)	Rohde & Schwarz	ESR26	2025-12-30	2026-12-29
2	Pre-amplifier	SONOMA	310N	2025-12-30	2026-12-29
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	2025-10-26	2028-10-25
4	Software Name EZ-EMC	Farad Technology	ANB-03A	/	/

Radiated emissions (Above 1GHz)					
Item	Equipment	Manufacturer	Model No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver(RE2/3#)	Rohde & Schwarz	ESR26	2025-12-30	2026-12-29
2	EMI Preamplifier	SKET Electronic	LNPA-0118G-45	2025-12-30	2026-12-29
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	2025-10-27	2028-10-26
4	Software Name EZ-EMC	Farad Technology	ANB-03A	/	/

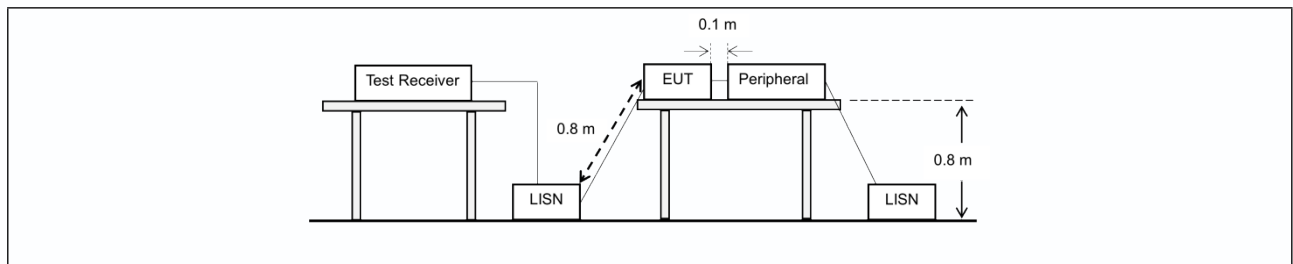
2. Conducted emissions on AC mains

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

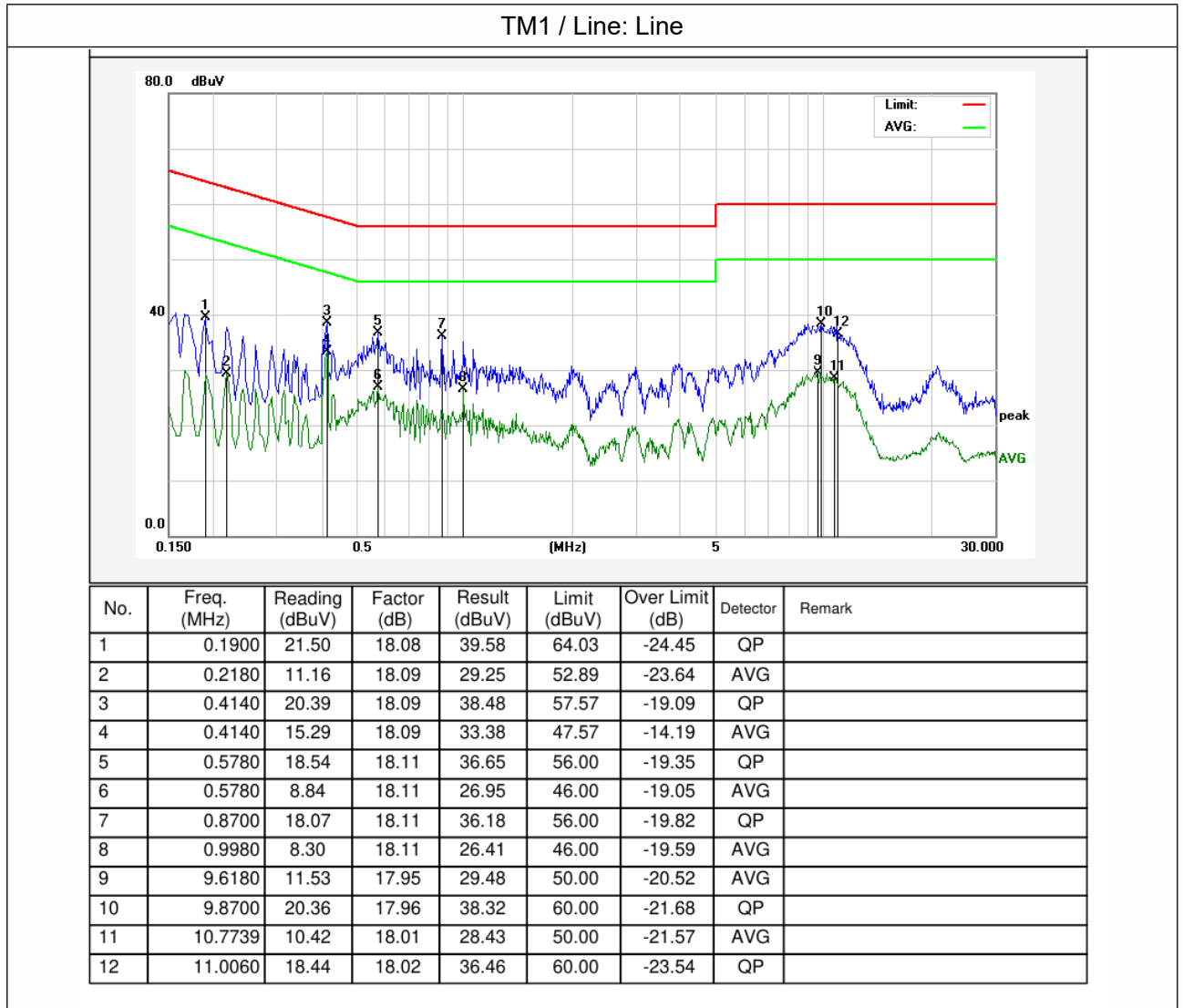
Operating Environment:	
Test mode:	1: TM1: Type-C Charging+AUX+FM RX Mode (5VDC from adapter input 120VAC/60Hz)

2.2. Test Setup



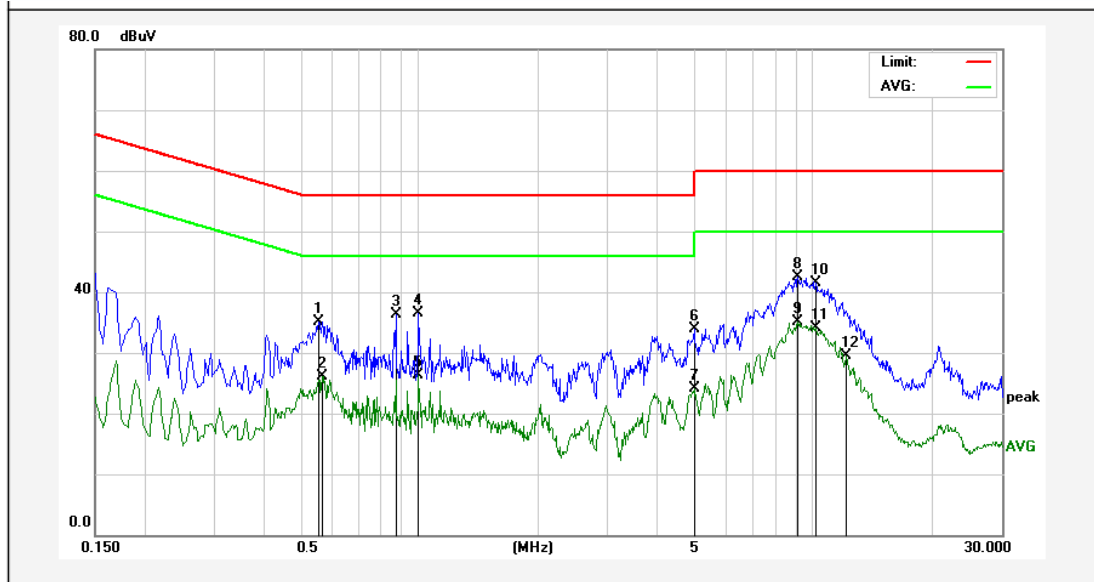
2.3. Test Data

Temperature:	25.3 °C	Humidity:	69 %	Atmospheric Pressure:	101 kPa
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Temperature:	25.3 °C	Humidity:	69 %	Atmospheric Pressure:	101 kPa
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TM1 / Line: Neutral



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.5580	17.01	18.12	35.13	56.00	-20.87	QP	
2	0.5700	8.03	18.11	26.14	46.00	-19.86	AVG	
3	0.8740	18.10	18.11	36.21	56.00	-19.79	QP	
4	0.9980	18.31	18.11	36.42	56.00	-19.58	QP	
5	0.9980	8.29	18.11	26.40	46.00	-19.60	AVG	
6	4.9540	15.90	18.01	33.91	56.00	-22.09	QP	
7	4.9540	6.03	18.01	24.04	46.00	-21.96	AVG	
8	9.0780	24.59	17.96	42.55	60.00	-17.45	QP	
9	9.0780	17.18	17.96	35.14	50.00	-14.86	AVG	
10	10.1300	23.58	17.97	41.55	60.00	-18.45	QP	
11	10.1300	16.22	17.97	34.19	50.00	-15.81	AVG	
12	12.1540	11.41	18.04	29.45	50.00	-20.55	AVG	

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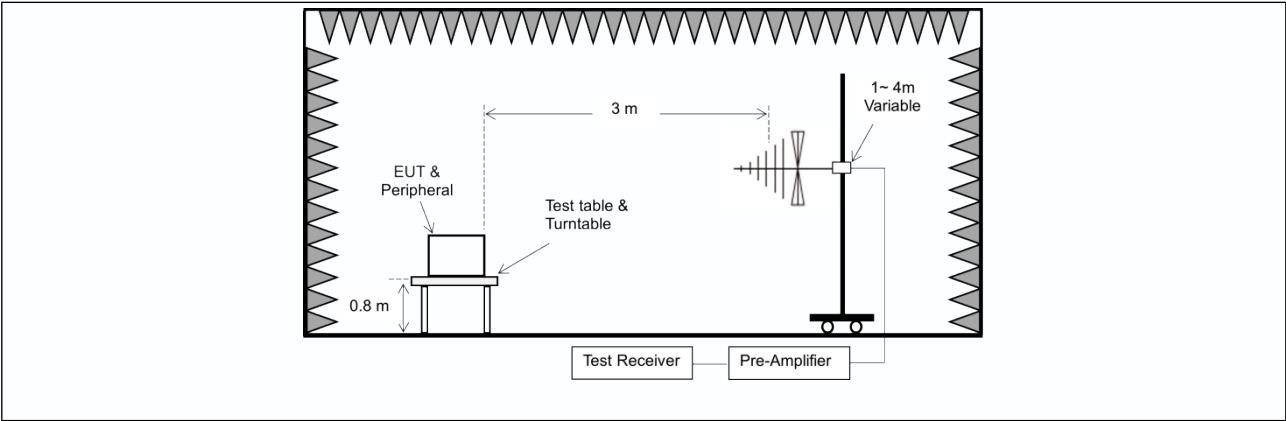
3. Radiated emissions (Below 1GHz)

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

3.1. EUT Operation

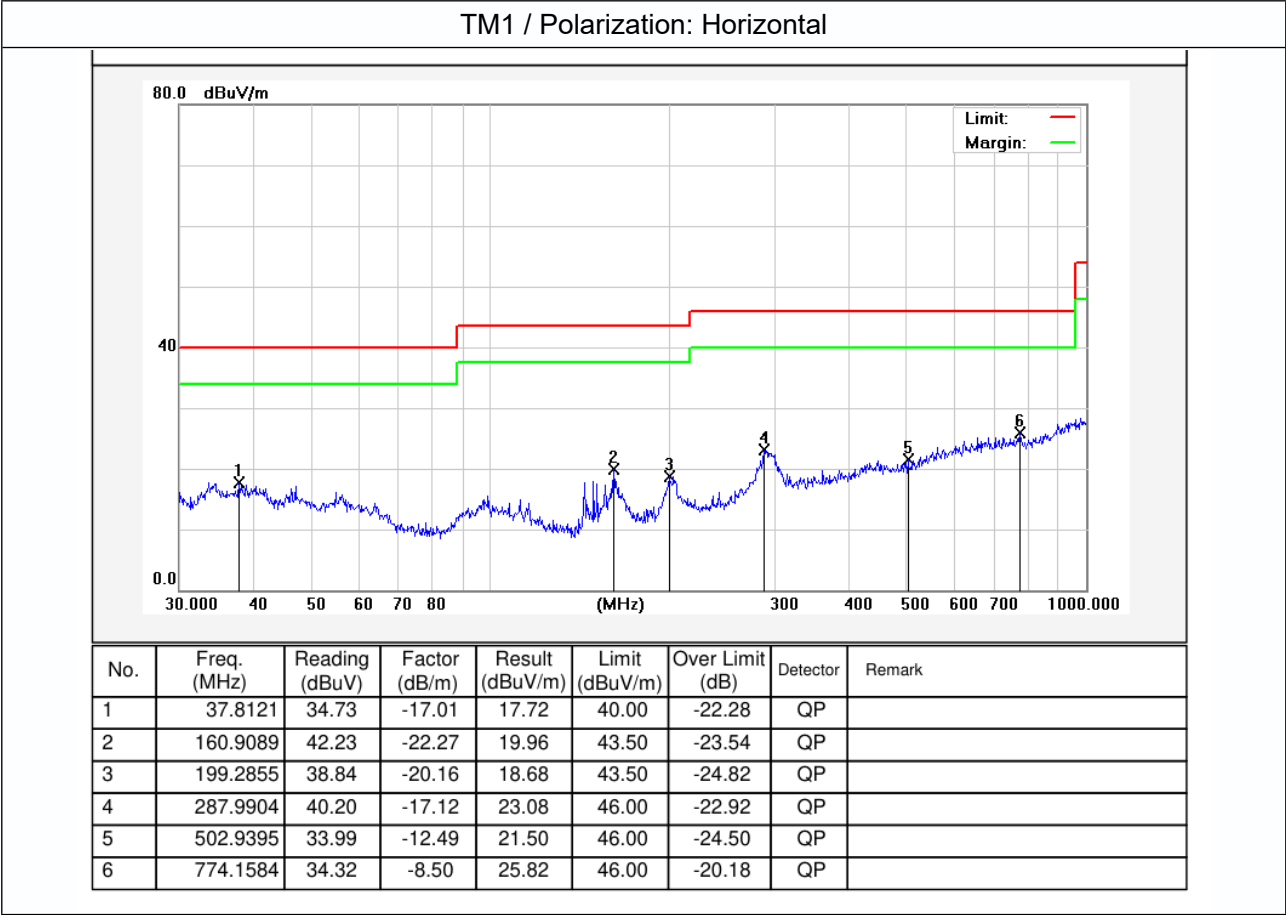
Operating Environment:	
Test mode:	1: TM1: Type-C Charging+AUX+FM RX Mode (5VDC from adapter input 120VAC/60Hz) 2: TM2: Working+AUX+FM RX Mode (3.7VDC Battery inside)

3.2. Test Setup

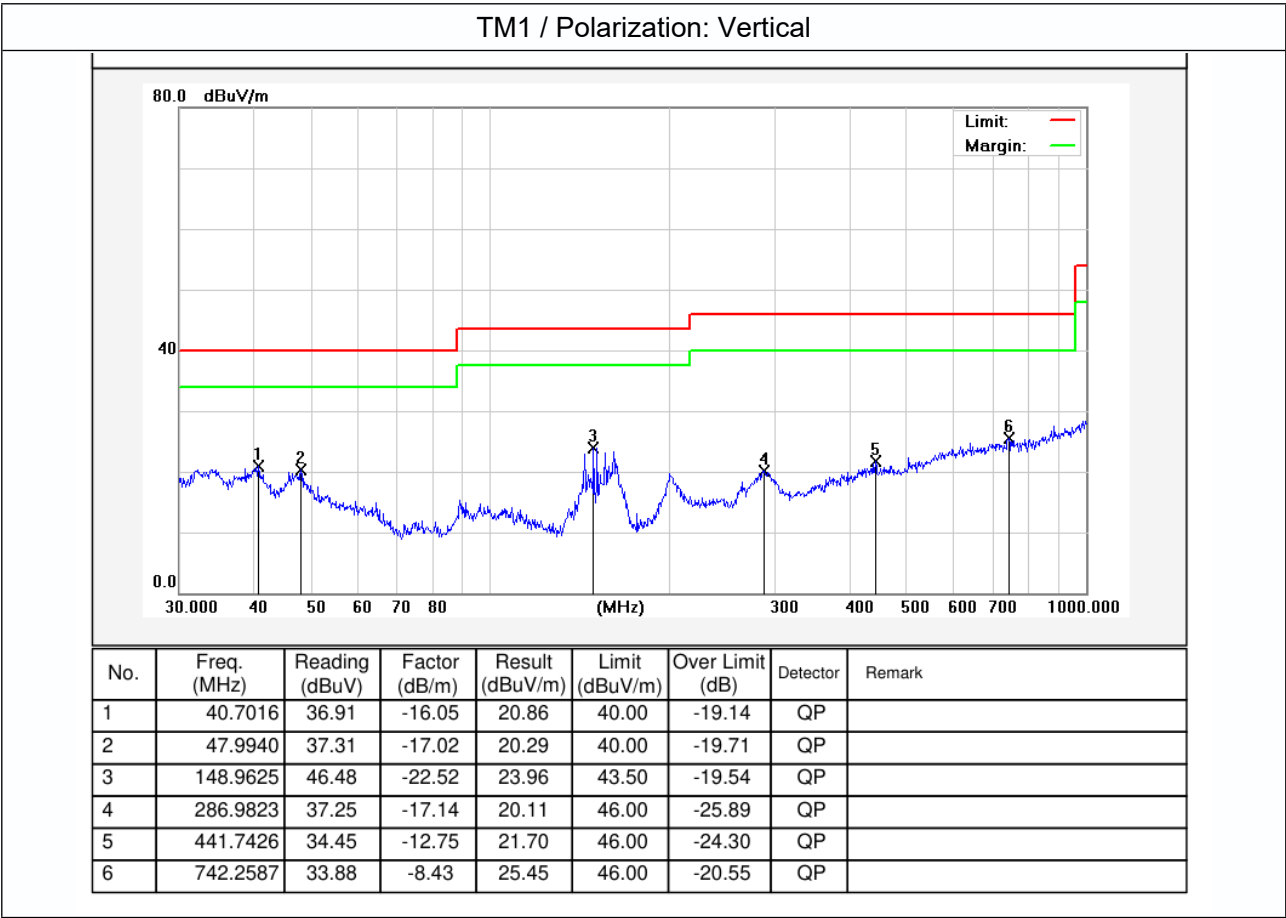


3.3. Test Data

Temperature:	20.8 °C	Humidity:	57 %	Atmospheric Pressure:	101 kPa
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Temperature:	20.8 °C	Humidity:	57 %	Atmospheric Pressure:	101 kPa
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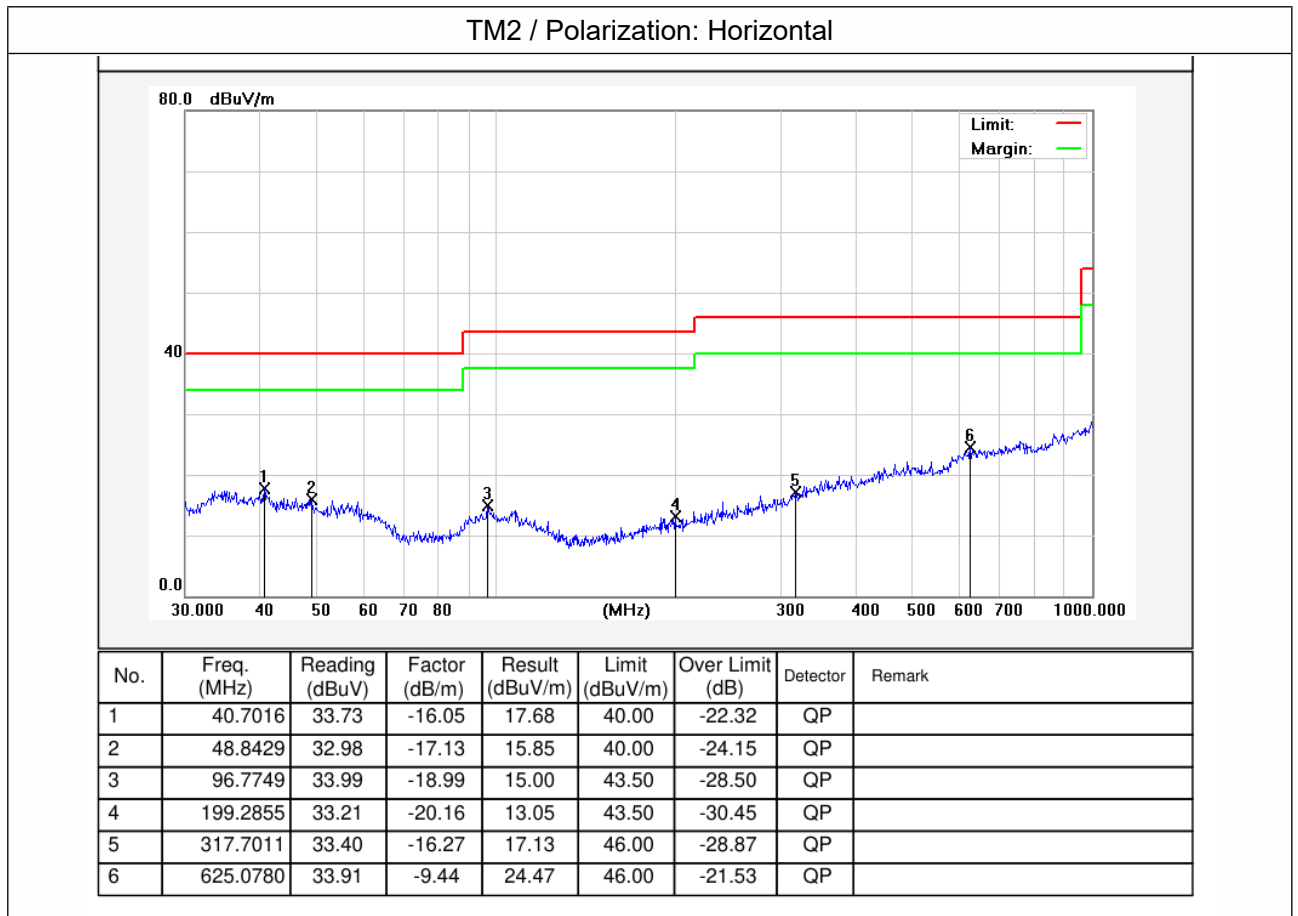


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Temperature:	20.8 °C	Humidity:	57 %	Atmospheric Pressure:	101 kPa
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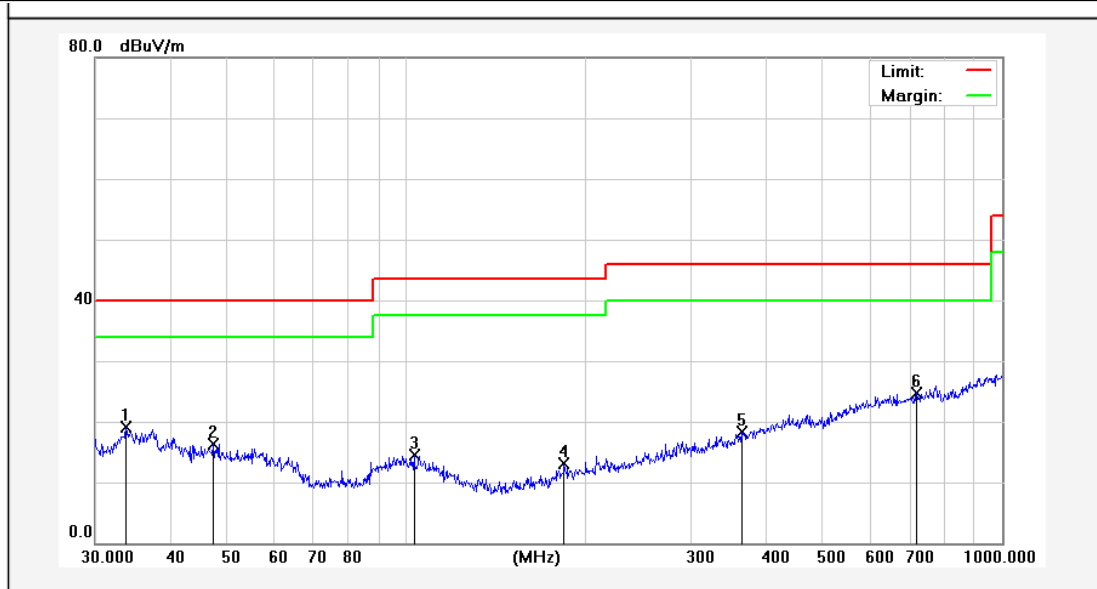
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Temperature:	20.8 °C	Humidity:	57 %	Atmospheric Pressure:	101 kPa
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TM2 / Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Remark
1	33.7986	37.82	-18.80	19.02	40.00	-20.98	QP	
2	47.3255	33.22	-16.93	16.29	40.00	-23.71	QP	
3	103.0800	33.19	-18.73	14.46	43.50	-29.04	QP	
4	183.8440	33.97	-20.81	13.16	43.50	-30.34	QP	
5	364.2595	32.47	-14.22	18.25	46.00	-27.75	QP	
6	719.1995	33.48	-8.68	24.80	46.00	-21.20	QP	

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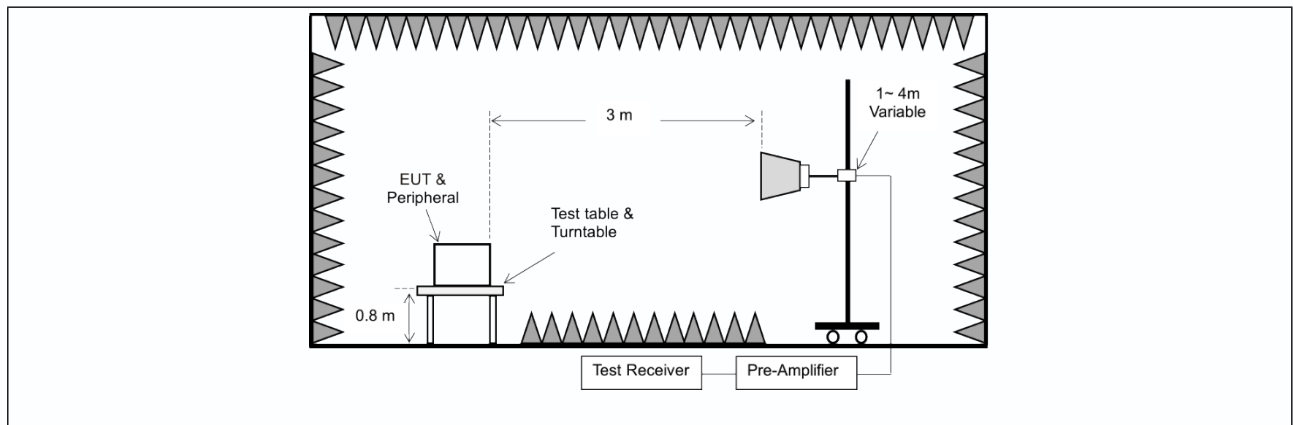
4. Radiated emissions (Above 1GHz)

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:	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. Remark: $\text{Result(dB}\mu\text{V/m)} = \text{Reading(dB}\mu\text{V)} + \text{Factor(dB/m)}$; $\text{Over Limit(dB)} = \text{Result(dB}\mu\text{V/m)} - \text{Limit(dB}\mu\text{V/m)}$			

4.1. EUT Operation

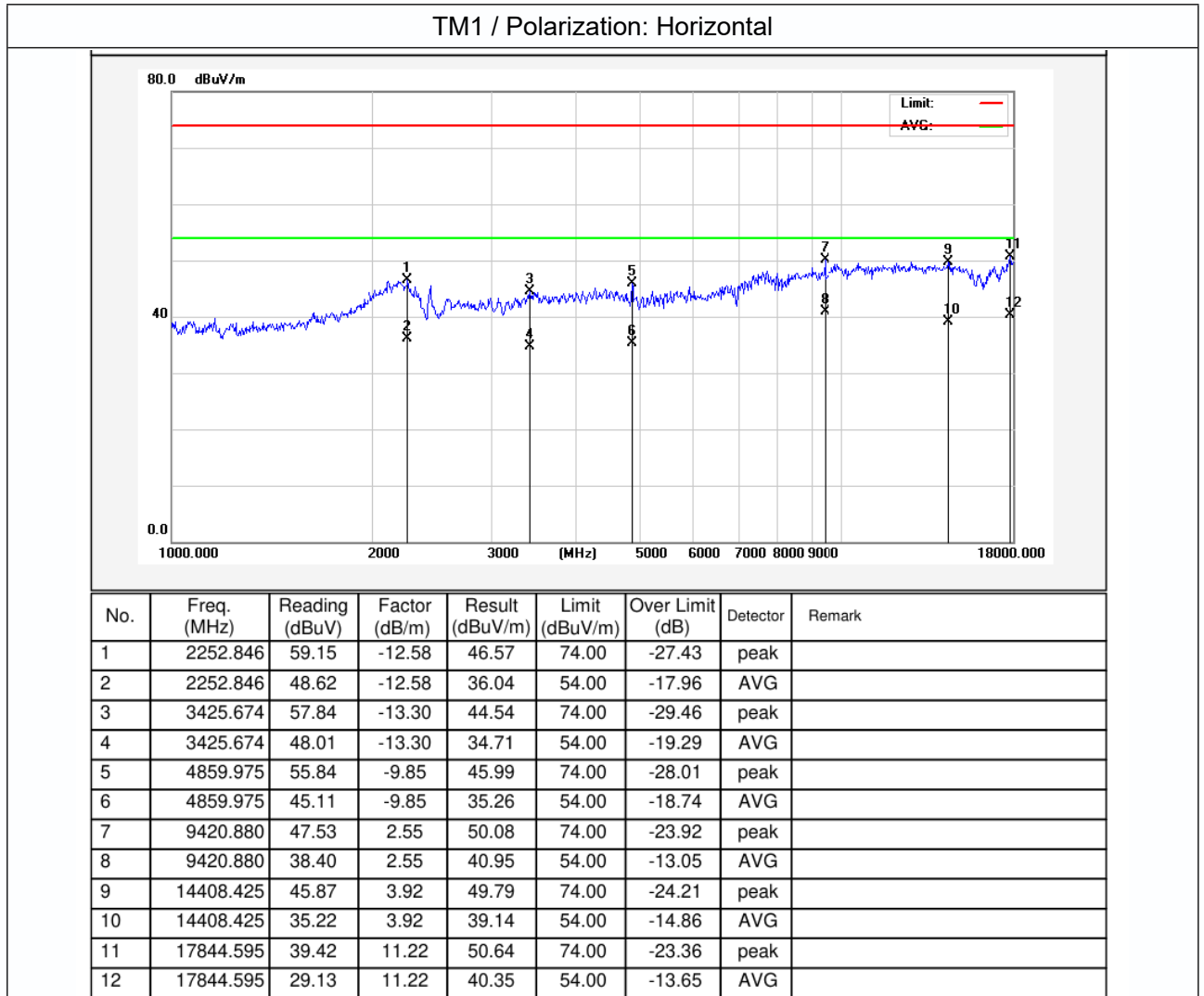
Operating Environment:	
Test mode:	1: TM1: Type-C Charging+AUX+FM RX Mode (5VDC from adapter input 120VAC/60Hz) 2: TM2: Working+AUX+FM RX Mode (3.7VDC Battery inside)

4.2. Test Setup

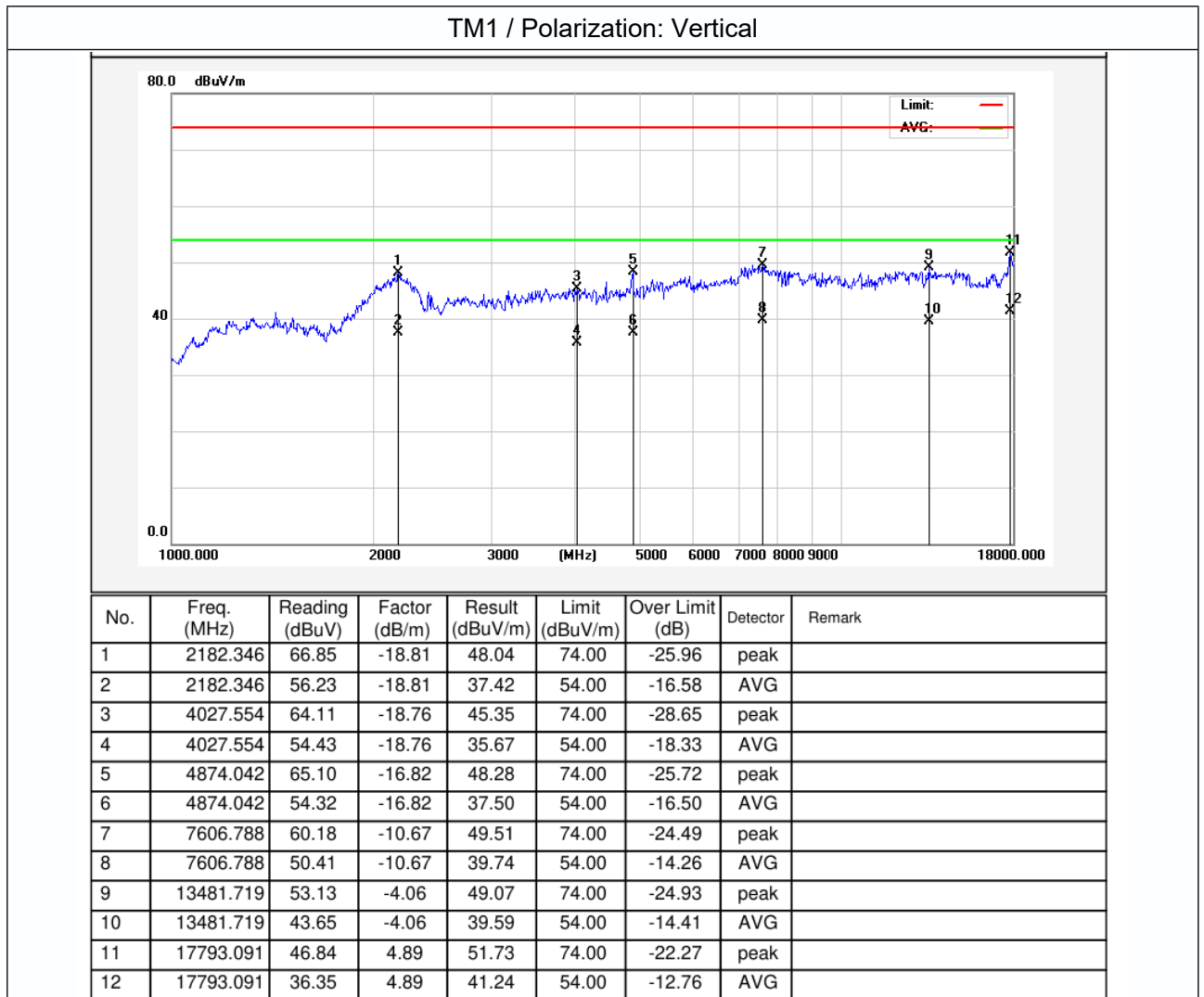


4.3. Test Data

Temperature:	23.9 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
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Temperature:	23.9 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
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Note: Only record the worst data 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 -----