

TEST REPORT

Reference No...... : WTX25X09245775W006
FCC ID : 2AEPIBLACKS
Applicant : COLOMBIANA DE COMERCIO S.A.
Address : Car. 43E No 8-71, Medellin, Colombia
Manufacturer : Mobewire Mobiles (Ningbo) Co.,Ltd
Address : No. 518, Changting East Road, Yuelin Street, Fenghua District, Ningbo City,
Zhejiang Province, China
Product Name : Smart Phone
Model No...... : Black S
Standards : FCC PART15 SUBPART B
Date of Receipt sample ... : 2025-07-25
Date of Test..... : 2025-07-26 to 2025-09-12
Date of Issue : 2025-09-12
Test Report Form No. : WTX_FCC PART15B_001
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

Prepared By:

Waltek Testing Group (Shenzhen) Co., Ltd.

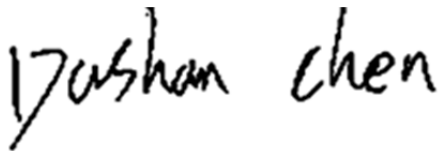
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Tested by:

Approved by:



Dashan Chen/Project Engineer



Silin Chen/Manager

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Report version

Version No.	Date of issue	Description
Rev.00	2025-09-12	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	Smart Phone
Trade Name:	Kalley
Model No.:	Black S
Adding Model(s):	/
<i>Note: The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model ORA5L-C1, but the circuit and the electronic construction do not change, declared by the manufacturer.</i>	

Technical Characteristics of EUT	
Rated Voltage:	Battery: DC 3.8V DC 5V, 1A charging from adapter
Battery:	2950mAh
Rated Power:	/
Power Adapter Model:	Model: 495 Input: 100-240V~, 50/60Hz, 0.3A Output: 5.0V  1.0A 5.0W
Lowest Internal Frequency:	26MHz
Highest Internal Frequency:	2567.5MHz
Classification of ITE:	Class B

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15 Subpart B:Unintentional Radiators.

ANSI C63.4-2014:American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

1.4 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. 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. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

1.5 EUT Setup and Operation Mode

The equipment under test (EUT) was configured to measure its highest possible emission. The test modes were adapted according to the operation manual for use, more detailed description as follows:

Test Mode List:

Test Mode	Description	Remark	Power Supply Mode
TM1	Adapter + Camera On + earphone	Connect to adapter	AC120V 60Hz for adapter
TM2	Adapter + Video Playing + earphone	Connect to adapter	AC120V 60Hz for adapter
TM3	Data Exchanging + earphone	Connect to Notebook	AC120V 60Hz for PC
TM4	Adapter + FM receiving + earphone	Connect to adapter	AC120V 60Hz for adapter

EUT Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
USB Cable	0.8	Unshielded	Without Ferrite

Auxiliary Equipment List and Details

Description	Manufacturer	Model	Serial Number
Notebook	ASUS	FA506IC	M8NRCX057996349

Special Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
/	/	/	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
Conducted Emissions	Conducted	9-150kHz, 3.74dB
		0.15-30MHz, 3.34dB
Radiated Emissions	Radiated	30-200MHz, 4.52dB
		0.2-1GHz, 5.56dB
		1-6GHz, 3.84dB
		6-18GHz, 3.92dB

1.7 Test Equipment List and Details

Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
☐ Chamber A: Below 1GHz					
Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2025-02-23	2026-02-22
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2025-02-23	2026-02-22
Amplifier	HP	8447F	2805A03475	2025-02-23	2026-02-22
Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2026-02-25
Trilog Broadband Antenna	Schwarz beck	VULB9163	9163-333	2025-02-23	2026-02-22
Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
☐ Chamber A: Above 1GHz					
Amplifier	C&D	PAP-1G18	2002	2025-02-23	2026-02-22
Horn Antenna	ETS	3117	00086197	2025-02-23	2026-02-22
Coaxial Cable	/	C16-07-07	/	2025-02-23	2026-02-22
Coaxial Cable	/	C16-07-07	/	2025-02-23	2026-02-22
Coaxial Cable	/	C16-07-07	/	2025-02-23	2026-02-22
☐ Chamber B: Below 1GHz					
EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2025-02-23	2026-02-22
Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2024-03-17	2027-03-16
Amplifier	Agilent	8447D	2944A10457	2025-02-23	2026-02-22
Coaxial Cable	/	1.5MRFC-LWB3	/	2025-02-23	2026-02-22
Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22
Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22
☒ Chamber C: Below 1GHz					
EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2025-02-23	2026-02-22
Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2024-04-18	2027-04-17
Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2026-02-25
Amplifier	HP	8447F	2944A03869	2025-02-23	2026-02-22
Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
Coaxial Cable	/	RC_6G-N-M	/	2025-02-23	2026-02-22
☒ Chamber C: Above 1GHz					

EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2025-02-23	2026-02-22
Horn Antenna	POAM	RTF-118A	1820	2025-06-13	2027-06-12
Amplifier	Tonscend	TAP010180 50	AP22E80623 5	2025-02-23	2026-02-22
DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2026-03-16
Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2025-02-23	2026-02-22
Coaxial Cable	/	RC-18G-N-M	/	2025-02-23	2026-02-22
Coaxial Cable	/	RC-18G-N-M	/	2025-02-23	2026-02-22
Coaxial Cable	/	RC-18G-N-M	/	2025-02-23	2026-02-22
☐ Conducted Room 1#					
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2025-02-23	2026-02-22
EMI Test Receiver	Rohde & Schwarz	ESCI	100525	2024-12-08	2025-12-07
AC LISN	Schwarz beck	NSLK8126	8126-279	2025-02-23	2026-02-22
Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22
Coaxial Cable	/	6MRFC-DP	/	2025-02-23	2026-02-22
☒ Conducted Room 2#					
EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2025-02-23	2026-02-22
LISN	Rohde & Schwarz	ENV 216	100097	2025-02-23	2026-02-22
Coaxial Cable	/	RG 316	/	2025-02-23	2026-02-22

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission A)	Farad	EZ-EMC	RA-03A1 (1.1.4.2)
EMI Test Software (Radiated Emission B)	Farad	EZ-EMC	RA-03A1 (1.1.4.2)
EMI Test Software (Radiated Emission C)	Farad	EZ-EMC	RA-03A1-2 (1.1.4.2)
EMI Test Software (Conducted Emission Room 1#)	Farad	EZ-EMC	3A1*CE-RE 1.1.4.3
EMI Test Software (Conducted Emission Room 2#)	Farad	EZ-EMC	3A1*CE-RE 1.1.4.3

*Remark: indicates software version used in the compliance certification testing.

2. SUMMARY OF TEST RESULTS

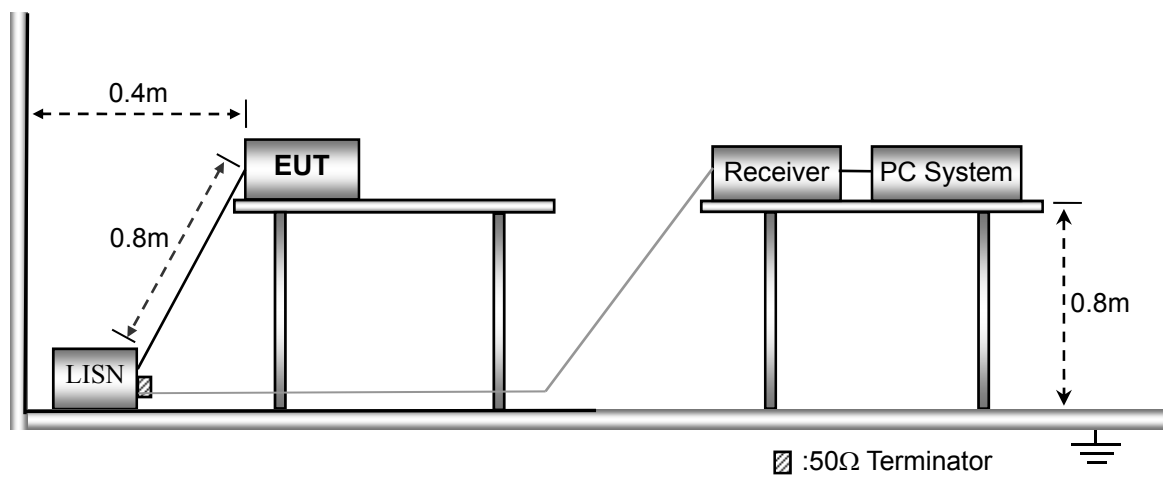
Description of Test	Result
§15.107(a) Conducted Emission	Compliant
§15.109(a) Radiated Emission	Compliant

3. Conducted Emissions

3.1 Test Procedure

Test is conducting under the description of ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

3.2 Basic Test Setup Block Diagram



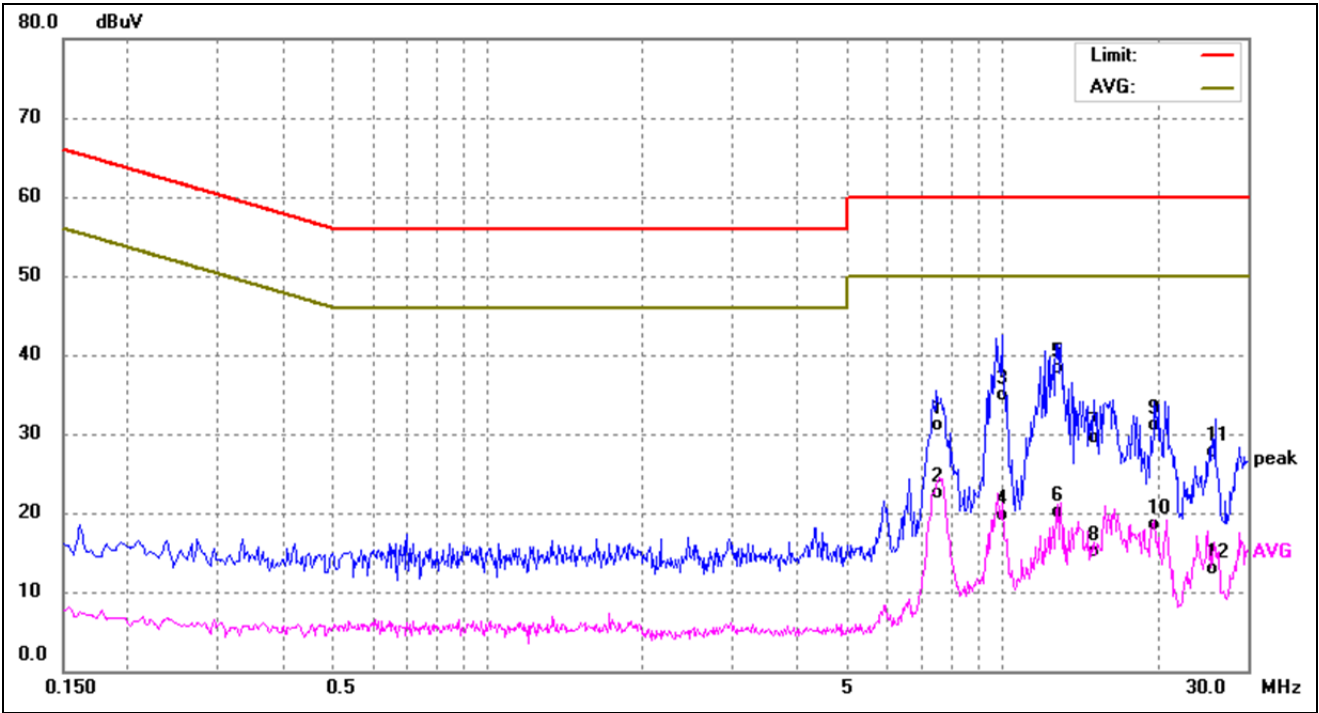
3.3 Environmental Conditions

Temperature:	25.9 °C
Relative Humidity:	51.4%
ATM Pressure:	1014 mbar

3.4 Summary of Test Results

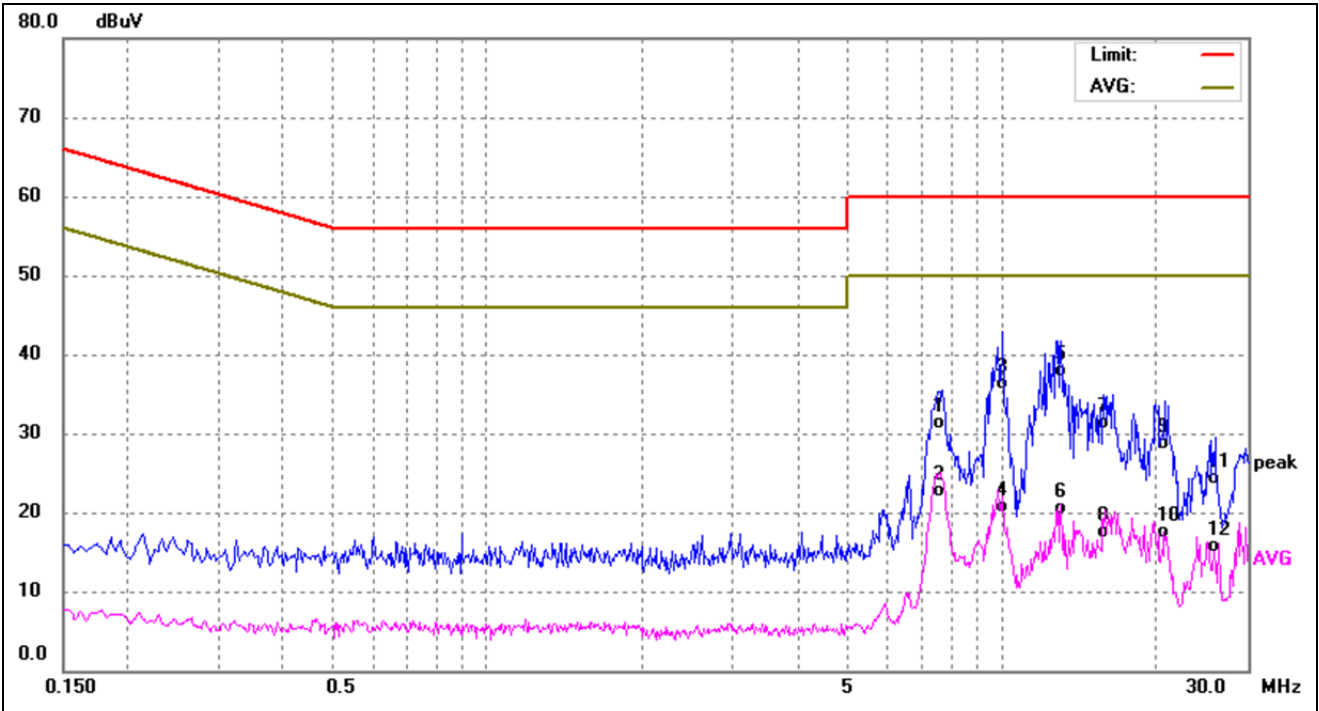
Look at the graphs and data below:

Test mode:	TM4	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	7.4660	20.85	10.27	31.12	60.00	-28.88	QP
2	7.4660	12.30	10.27	22.57	50.00	-27.43	AVG
3	10.0180	24.00	10.90	34.90	60.00	-25.10	QP
4	10.0180	8.88	10.90	19.78	50.00	-30.22	AVG
5*	12.7860	27.28	11.10	38.38	60.00	-21.62	QP
6	12.7860	9.01	11.10	20.11	50.00	-29.89	AVG
7	15.1180	18.46	11.09	29.55	60.00	-30.45	QP
8	15.1180	3.99	11.09	15.08	50.00	-34.92	AVG
9	19.7420	19.85	11.26	31.11	60.00	-28.89	QP
10	19.7420	7.18	11.26	18.44	50.00	-31.56	AVG
11	25.9780	15.60	12.05	27.65	60.00	-32.35	QP
12	25.9780	0.92	12.05	12.97	50.00	-37.03	AVG

Test mode:	TM4	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	7.4900	21.07	10.28	31.35	60.00	-28.65	QP
2	7.4900	12.52	10.28	22.80	50.00	-27.20	AVG
3	10.0260	25.44	10.90	36.34	60.00	-23.66	QP
4	10.0260	9.87	10.90	20.77	50.00	-29.23	AVG
5*	13.0219	26.84	11.10	37.94	60.00	-22.06	QP
6	13.0219	9.41	11.10	20.51	50.00	-29.49	AVG
7	15.7820	20.21	11.11	31.32	60.00	-28.68	QP
8	15.7820	6.32	11.11	17.43	50.00	-32.57	AVG
9	20.7620	17.25	11.43	28.68	60.00	-31.32	QP
10	20.7620	6.00	11.43	17.43	50.00	-32.57	AVG
11	25.9820	12.27	12.05	24.32	60.00	-35.68	QP
12	25.9820	3.60	12.05	15.65	50.00	-34.35	AVG

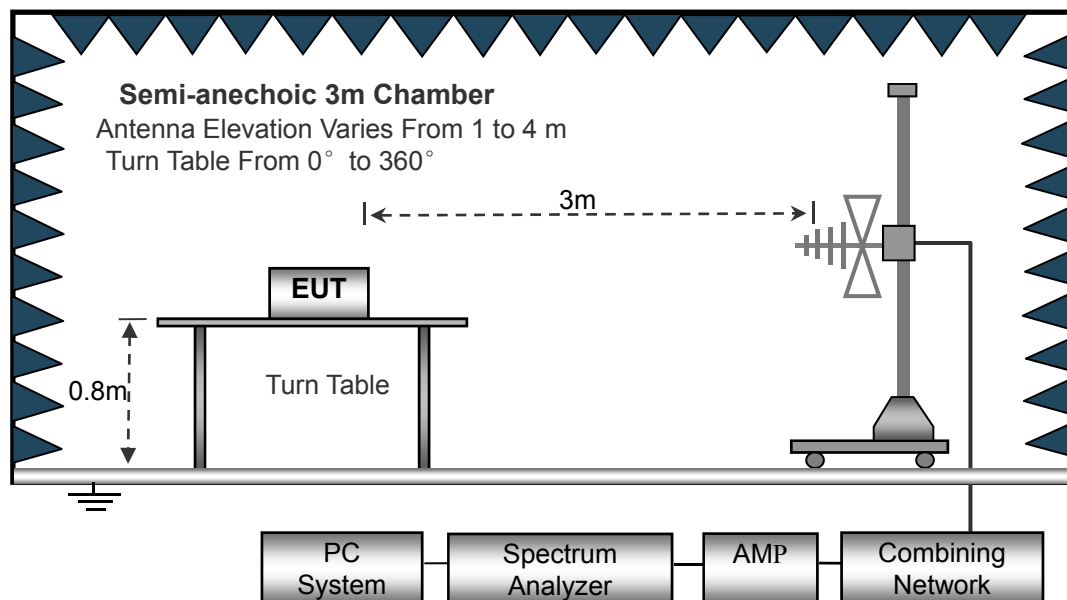
4. RADIATED EMISSION

4.1 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15.109 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

4.2 Block Diagram of Test Setup



4.3 Test Receiver Setup

Frequency :9kHz-30MHz

RBW=10kHz,

VBW =30kHz

Sweep time= Auto

Trace = max hold

Detector function = peak

Frequency :30MHz-1GHz

RBW=120kHz,

VBW=300kHz

Sweep time= Auto

Trace = max hold

Detector function = peak, QP

Frequency :Above 1GHz

RBW=1MHz,

VBW=3MHz(Peak), 10Hz(AV)

Sweep time= Auto

Trace = max hold

Detector function = peak, AV

4.4 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\begin{aligned}\text{Corr. Ampl.} &= \text{Indicated Reading} + \text{Correct} \\ \text{Correct} &= \text{Ant.Factor} + \text{Cable Loss} - \text{Ampl.Gain}\end{aligned}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit for a Class B device. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15.109(a) Limit}$$

4.5 Environmental Conditions

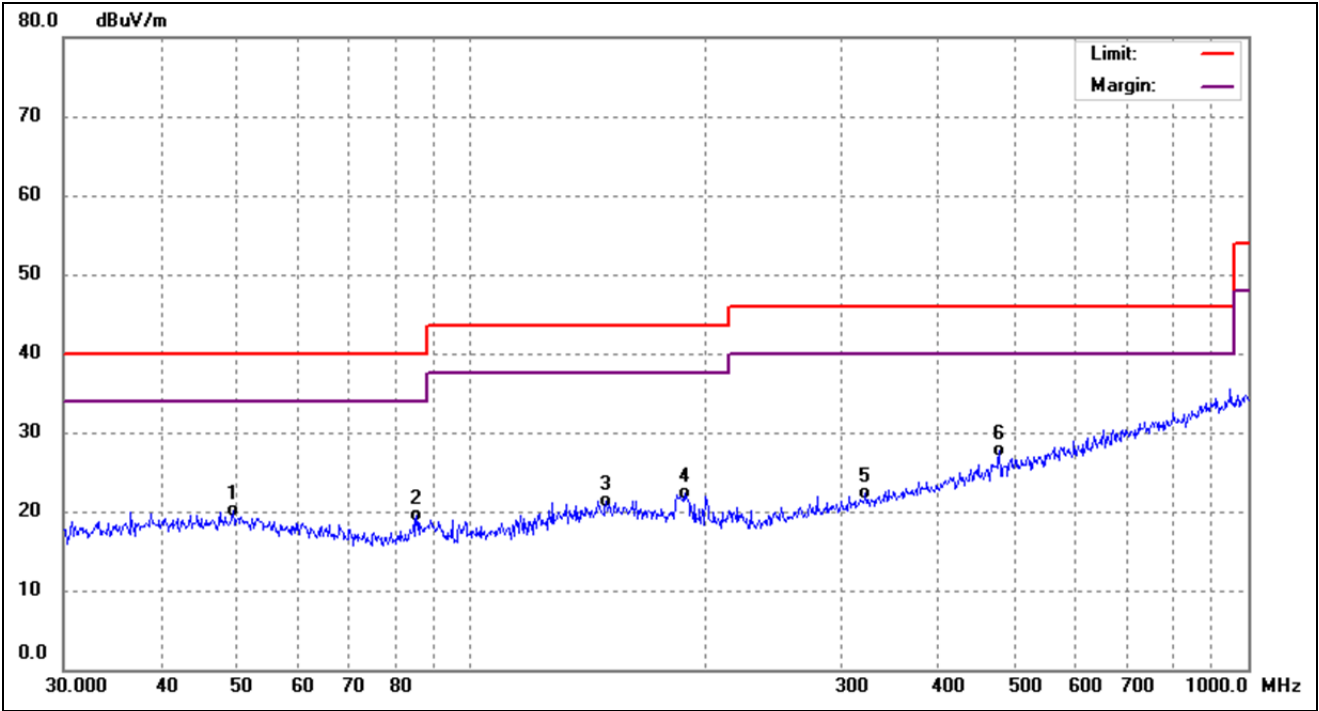
Temperature:	28.1 °C
Relative Humidity:	50.9 %
ATM Pressure:	1012 mbar

4.6 Summary of Test Results

Look at the graphs and data below:

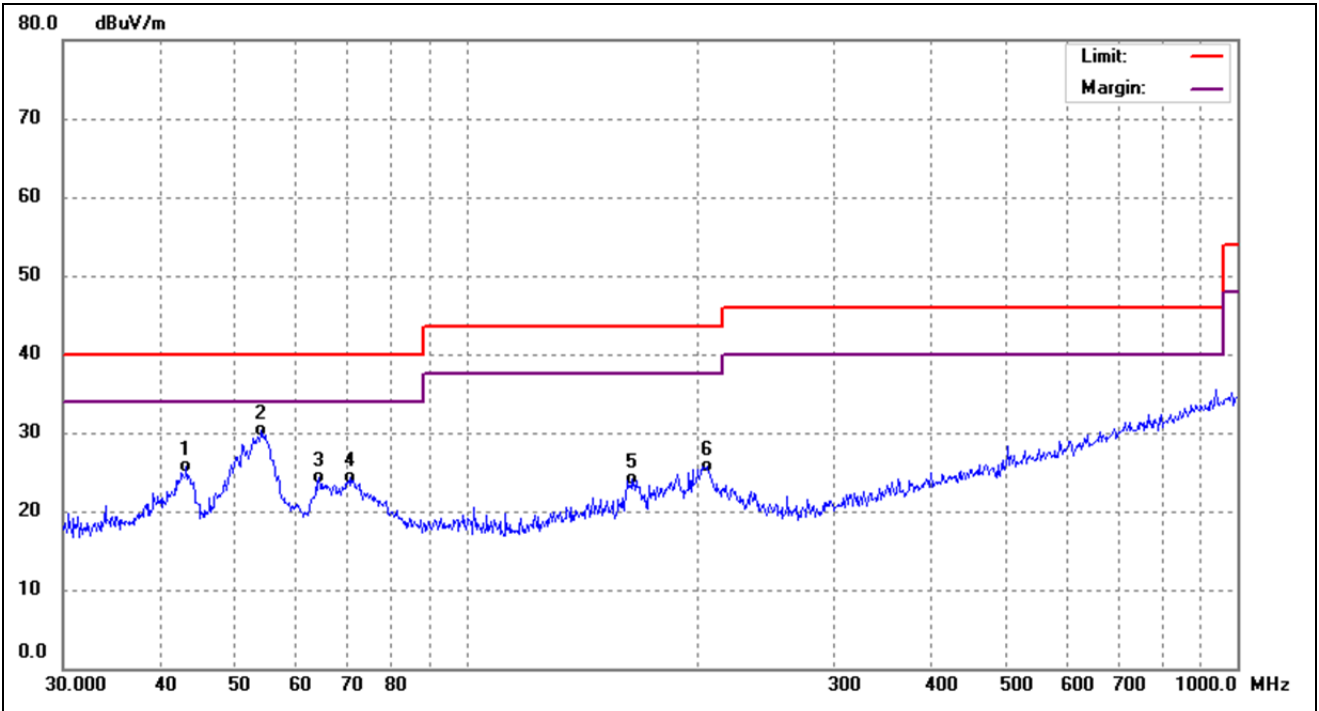
➤ Below 1GHz

Test mode:	TM1	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	49.5328	29.74	-9.73	20.01	40.00	-19.99	-	-	QP
2	85.2980	32.38	-12.89	19.49	40.00	-20.51	-	-	QP
3	149.4857	29.40	-8.03	21.37	43.50	-22.13	-	-	QP
4	188.4125	32.70	-10.41	22.29	43.50	-21.21	-	-	QP
5	322.1886	29.83	-7.58	22.25	46.00	-23.75	-	-	QP
6	478.8456	31.63	-3.99	27.64	46.00	-18.36	-	-	QP

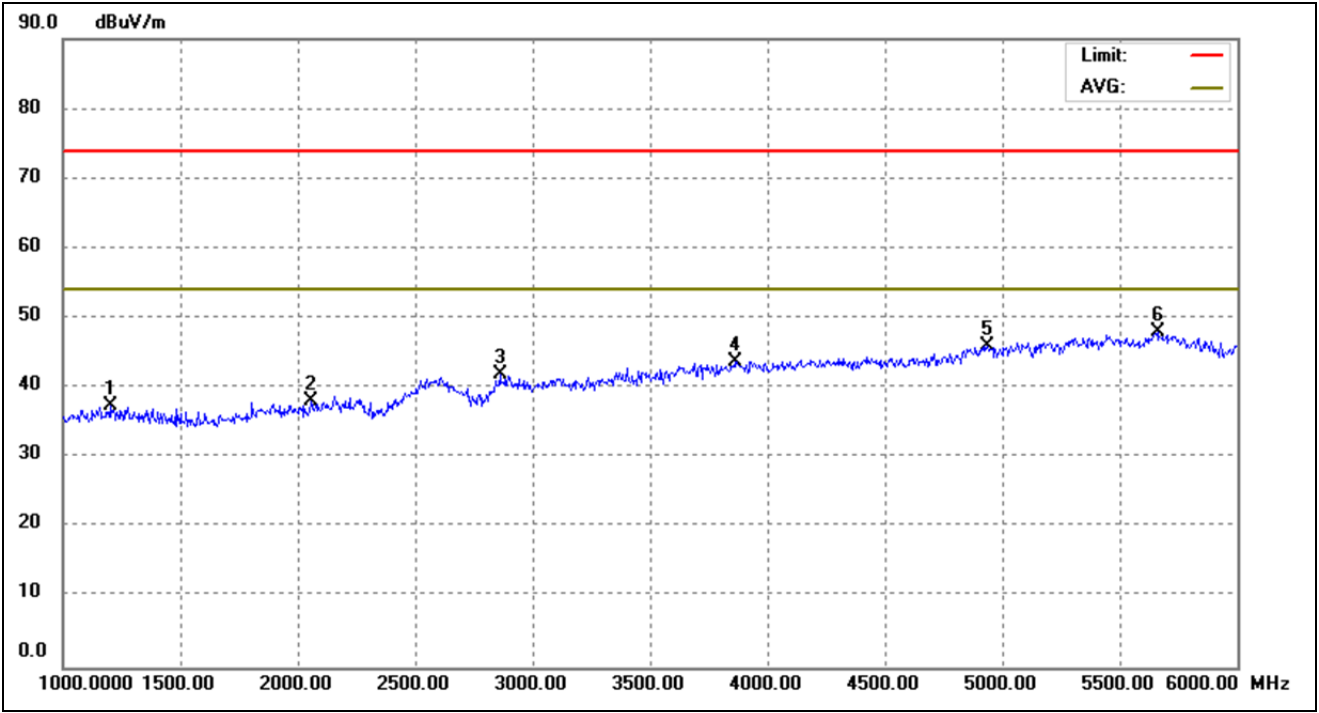
Test mode:	TM1	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	43.3534	35.48	-9.76	25.72	40.00	-14.28	-	-	QP
2	54.2610	40.50	-10.10	30.40	40.00	-9.60	-	-	QP
3	64.4331	35.27	-11.02	24.25	40.00	-15.75	-	-	QP
4	70.8315	35.99	-11.63	24.36	40.00	-15.64	-	-	QP
5	164.3301	32.55	-8.53	24.02	43.50	-19.48	-	-	QP
6	204.9551	36.53	-10.80	25.73	43.50	-17.77	-	-	QP

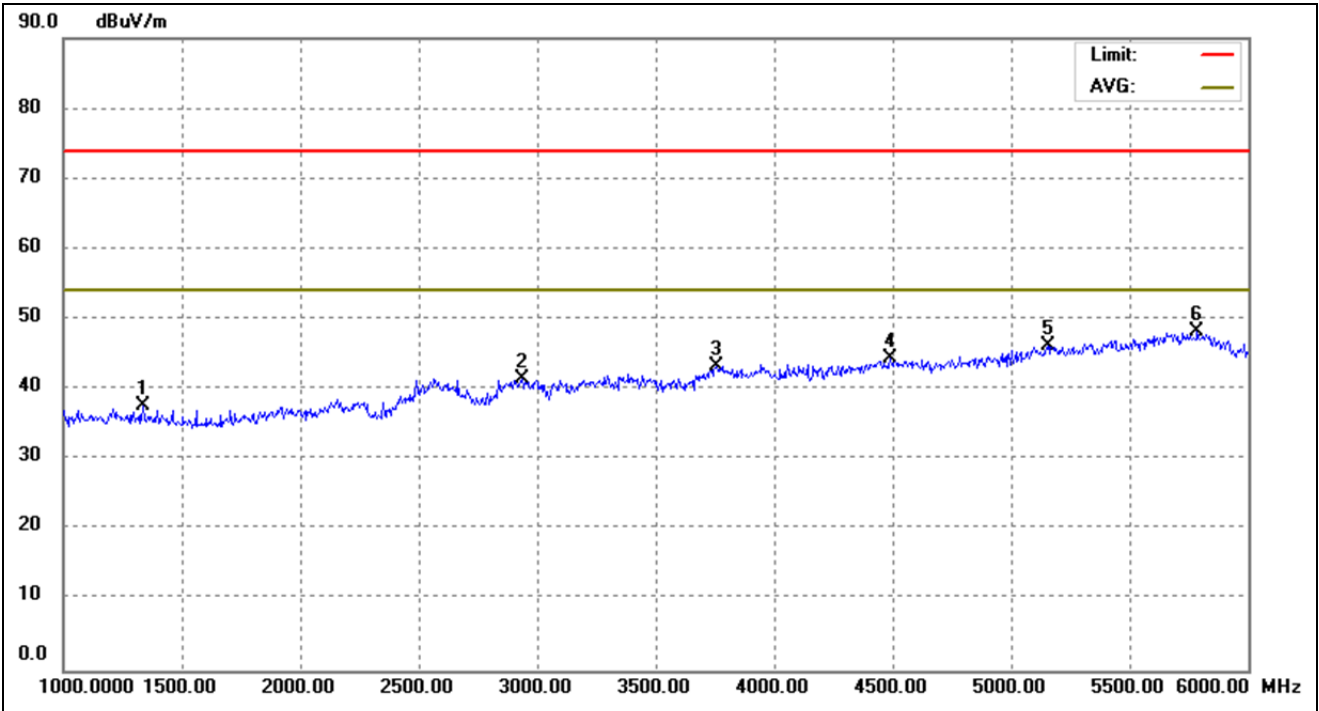
Above 1GHz

Test mode:	TM3	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	1200.000	50.86	-13.43	37.43	74.00	-36.57	-	-	peak
2	2055.000	49.71	-11.58	38.13	74.00	-35.87	-	-	peak
3	2860.000	50.26	-8.36	41.90	74.00	-32.10	-	-	peak
4	3860.000	49.60	-5.78	43.82	74.00	-30.18	-	-	peak
5	4935.000	49.45	-3.49	45.96	74.00	-28.04	-	-	peak
6	5660.000	50.69	-2.73	47.96	74.00	-26.04	-	-	peak

Test mode:	TM3	Polarity:	Vertical
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	1335.000	51.33	-13.69	37.64	74.00	-36.36	-	-	peak
2	2935.000	49.45	-7.94	41.51	74.00	-32.49	-	-	peak
3	3755.000	49.54	-6.18	43.36	74.00	-30.64	-	-	peak
4	4490.000	49.69	-5.16	44.53	74.00	-29.47	-	-	peak
5	5155.000	49.39	-3.13	46.26	74.00	-27.74	-	-	peak
6	5785.000	50.34	-2.05	48.29	74.00	-25.71	-	-	peak

Remark: ‘-’Means’ the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

***** END OF REPORT *****