

TEST REPORT

Reference No...... : WTD24D09226785W001
FCC ID : 2AEPIBLACKCPLUS
Applicant..... : COLOMBIANA DE COMERCIO S.A.
Address..... : Car. 43E No 8-71, Medellin, Colombia
Manufacturer : Sichuan Koobee Communication Equipment Co., Ltd.
Address : 3 Floor, Building 2, 69 Gangyuan Road West Section, Lingang
Development Zone, Yibin City, Sichuan Province, China
Product..... : Smart Phone
Model(s) : Black C Plus
Brand Name..... : Kalley
Standards : FCC Part 15 Subpart B
Date of Receipt sample : 2024-10-08
Date of Test : 2024-10-09 to 2024-10-30
Date of Issue..... : 2024-11-07
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 compiler and approver.

Prepared By:
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The logo is a circular blue stamp. The outer ring contains the text "WALTEK TESTING GROUP CO., LTD." at the top and "TEST REPORT" at the bottom. The center features a stylized "W" and "T" intertwined, with the word "WALTEK" written below them.

Deval Qin / Designated Reviewer

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2 Revision History

Test Report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD24D09226785W001	2024-10-08	2024-10-09 to 2024-10-30	2024-11-07	Original	-	Valid

3 General Information

3.1 General Description of E.U.T.

Product : Smart Phone
Model(s)..... : Black C Plus
Model Description..... : The product has two configurations, single card and dual card, other parts are the same. The EUT is dual card in this report.
Test Sample No..... : 1-1/1

3.2 Details of E.U.T.

Ratings : Battery: DC 3.87V, 4900mAh, 18.96Wh
DC 5.0V, 2.0A charging from adapter
Adapter : Model No.: UT-681A-5200MY
Input: 100-240V~, 50/60Hz, 0.35A
Output: 5.0V==2.0A, 10.0W

3.3 Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes ☒ No

If Yes, list the related test items and lab information:

Test Lab: N/A

Lab address: N/A

Test items: N/A

3.4 Abnormalities from Standard Conditions

None.

4 Test Summary

Test Item	Test Requirement	Test Result
AC Power Line Conducted Emission (150kHz to 30MHz)	FCC Part 15 Subpart B	Pass
Radiated Emission (30MHz to 1GHz)	FCC Part 15 Subpart B	Pass
Radiated Emission (Above 1GHz)	FCC Part 15 Subpart B	Pass

Remark:

Pass Test item meets the requirement

Fail Test item does not meet the requirement

N/A Test case does not apply to the test object

5 Equipment Used during Test

5.1 Equipment List

Conducted emissions from the AC mains power ports						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	EMI Test Receiver	R&S	ESCI	100947	2024-07-18	2025-07-17
2	LISN	R&S	ENV216	100115	2024-07-18	2025-07-17
3	Cable	Top	TYPE16(3.5M)	-	2024-07-18	2025-07-17
3m Semi-anechoic Chamber for Radiation (TDK)						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	2024-04-22	2025-04-21
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2023-11-04	2024-11-03
3	Amplifier	ANRITSU	MH648A	M43381	2024-04-22	2025-04-21
4	Cable	HUBER+SUHNER	CBL2	525178	2024-04-22	2025-04-21
3m Semi-anechoic Chamber for Radiation, Above 1GHz						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Spectrum Analyzer	R&S	FSP	100091	2024-04-22	2025-04-21
2	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	2024-01-23	2025-01-22
3	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	2024-07-18	2025-07-17
4	Coaxial Cable (above 1GHz)	Top	1GHz-18GHz	NA	2024-04-22	2025-04-21

Test Software:

Test Item	Software name	Software version
Conduction disturbance Radiated Emission(3m)	EZ-EMC	EZ-EMC(RA-03A1-1)

5.2 Measurement Uncertainty

Parameter	Uncertainty (Note 1)
Temperature	$\pm 1^{\circ}\text{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 3\%$
Conducted Emission (150kHz-30MHz)	$\pm 3.64\text{dB}$
Radiated Emission_3m (30MHz-1000MHz)	$\pm 4.53\text{ dB}$
Radiated Emission_10m (30MHz-1000MHz)	$\pm 5.24\text{ dB}$
Radiated Emission(1GHz~18GHz)	$\pm 5.03\text{dB}$

Note 1: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

5.3 Test Mode

Test Item	Test Mode	Test Voltage
AC Power Line Conducted Emission (150KHz-30MHz)	Data transmitting	DC 5V
	FM playing + Adapter	AC 120V/60Hz
	SD card playing + Adapter*	AC 120V/60Hz
	Recording + Adapter	AC 120V/60Hz
Radiated Emissions (30MHz-1GHz)	Data transmitting	DC 5V
	FM playing + Adapter	AC 120V/60Hz
	SD card playing + Adapter*	AC 120V/60Hz
	Recording + Adapter	AC 120V/60Hz
Radiated Emissions (Above1GHz)	Data transmitting	DC 5V
	FM playing + Adapter	AC 120V/60Hz
	SD card playing + Adapter	AC 120V/60Hz
	Recording + Adapter*	AC 120V/60Hz
“*” shows the worst case mode which were recorded in this report.		

6 Emission Test Results

6.1 AC Power Line Conducted Emission, 150kHz to 30MHz

Test Requirement..... : FCC Part 15 Subpart B

Test Method..... : ANSI C63.4

Test Result : Pass

Frequency Range..... : 150kHz to 30MHz

Class..... : Class B

Limit..... :

Frequency (MHz)	Limit (dB μ V)	
	Qu si-peak	Average
0. 5 to 0.5	66 o 56	56 to 46
0.5 to 5	56	46
5 to 30	60	50

6.1.1 E.U.T. Operation

Operating Environment:

Temperature..... : 25.9°C

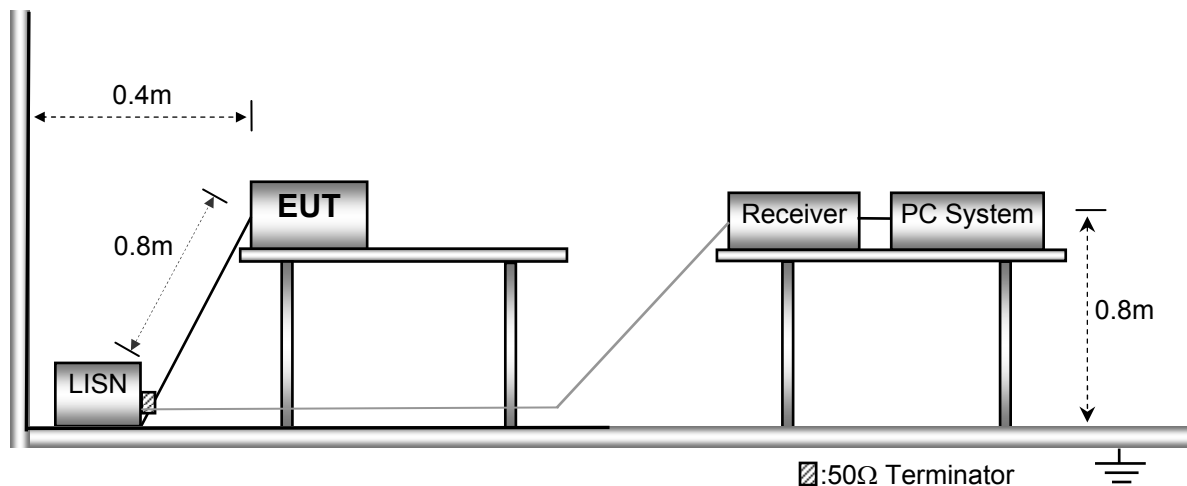
Humidity..... : 42.4%RH

Atmospheric Pressure : 101.1kPa

EUT Operation : Refer to section 5.3.

6.1.2 Block Diagram of Test Setup

The AC Power Line Conducted Emissions tests were performed in accordance with the ANSI C63.4 .

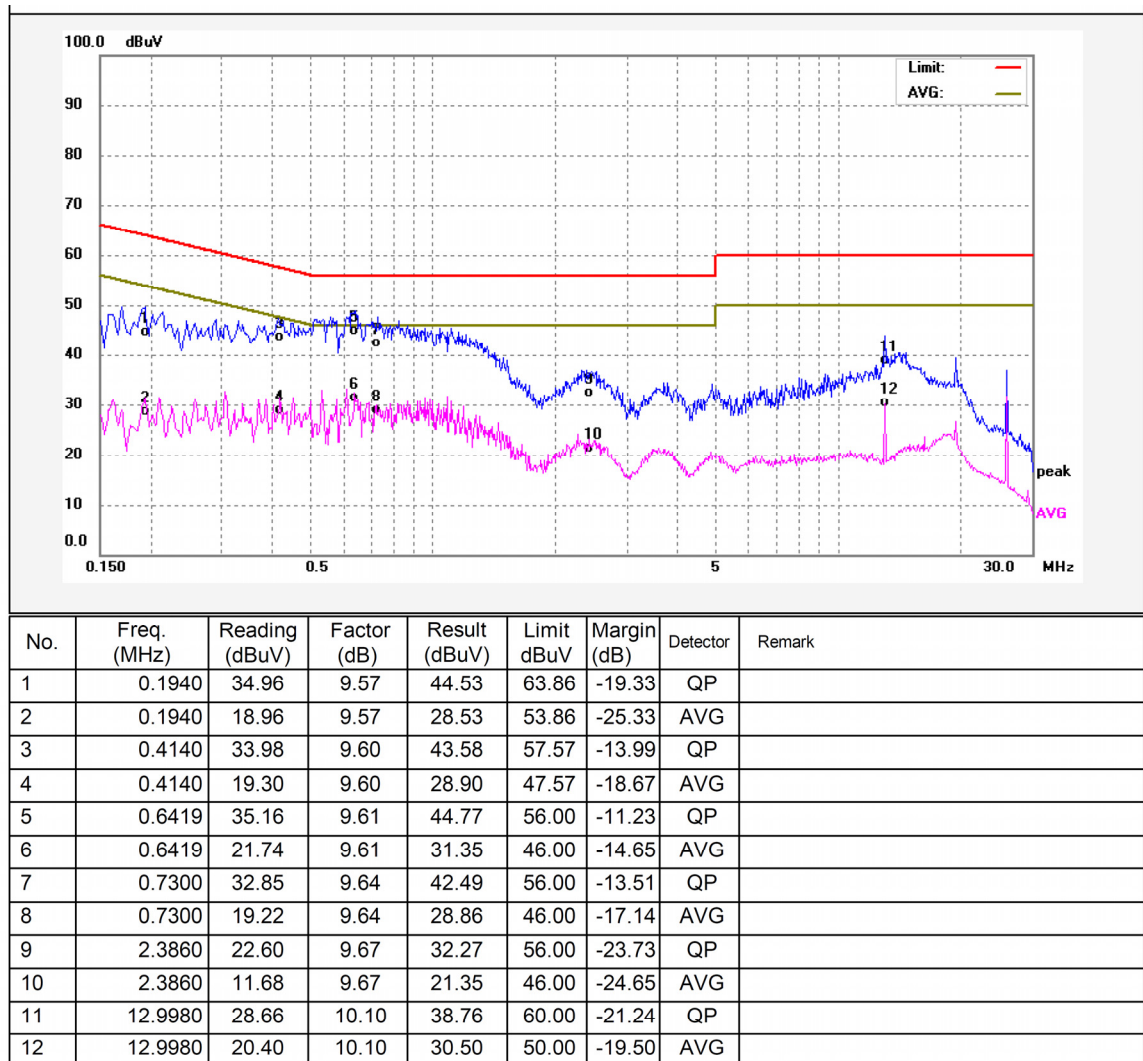


6.1.3 Measurement Data

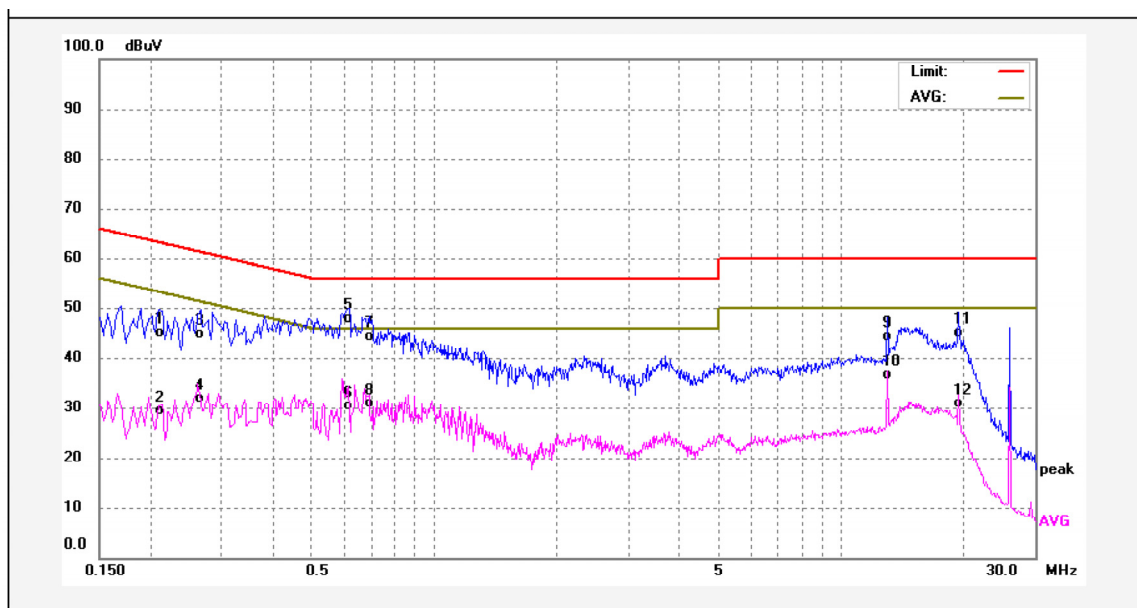
The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line. According to the data in section 6.1.4, the EUT complied with the FCC PART 15, SUBPART B standards.

6.1.4 AC Power Line Conducted Emission Test Data

Live Line:



Neutral Line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.2100	35.58	9.57	45.15	63.20	-18.05	QP	
2	0.2100	19.74	9.57	29.31	53.20	-23.89	AVG	
3	0.2660	35.28	9.59	44.87	61.24	-16.37	QP	
4	0.2660	22.35	9.59	31.94	51.24	-19.30	AVG	
5	0.6180	38.29	9.61	47.90	56.00	-8.10	QP	
6	0.6180	20.78	9.61	30.39	46.00	-15.61	AVG	
7	0.6900	34.80	9.61	44.41	56.00	-11.59	QP	
8	0.6900	21.30	9.61	30.91	46.00	-15.09	AVG	
9	12.9980	34.31	10.10	44.41	60.00	-15.59	QP	
10	12.9980	26.64	10.10	36.74	50.00	-13.26	AVG	
11	19.4980	35.01	10.19	45.20	60.00	-14.80	QP	
12	19.4980	20.80	10.19	30.99	50.00	-19.01	AVG	

6.2 Radiation Emission, 30MHz to 1000MHz

Test Requirement..... : FCC Part 15 Subpart B
 Test Method..... : ANSI C63.4
 Test Result : Pass
 Frequency Range..... : 30MHz to 1000MHz
 Class..... : Class B
 Limit :

Frequency (MHz)	Distance (Meter)	Limit (dB μ V/m)
		Quasi-peak
30 to 88	3	40
88 to 216	3	43.5
216 to 960	3	46
960 to 1000	3	54

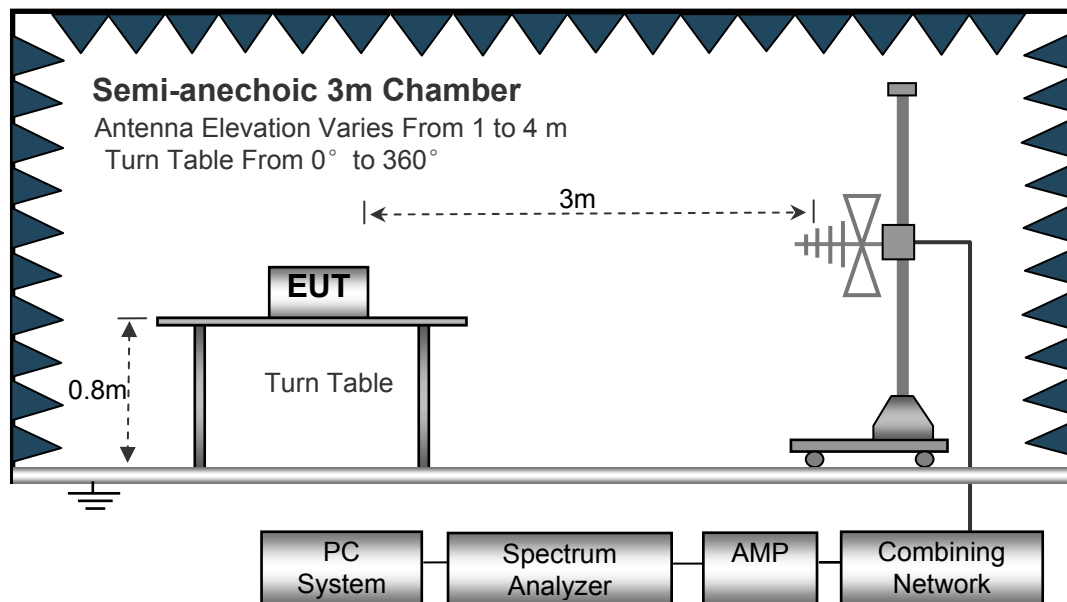
6.2.1 E.U.T. Operation

Operating Environment:

Temperature..... : 27.8°C
 Humidity..... : 38.1%RH
 Atmospheric Pressure : 100.8kPa
 EUT Operation : Refer to section 5.3.

6.2.2 Block Diagram of Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4.

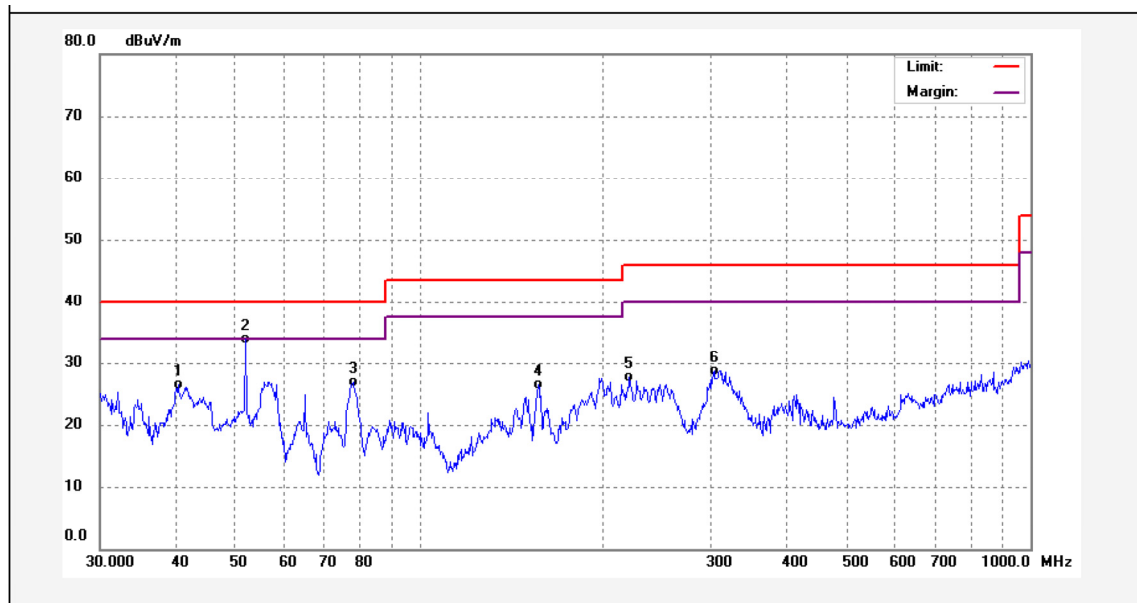


6.2.3 Measurement Data

The maximised peak emissions from the EUT was scanned and measured for both the Antenna Vertical Polarization and Antenna Horizontal Polarization. Quasi-peak measurements were performed if peak emissions were within 6dB of the Quasi-peak limit line.

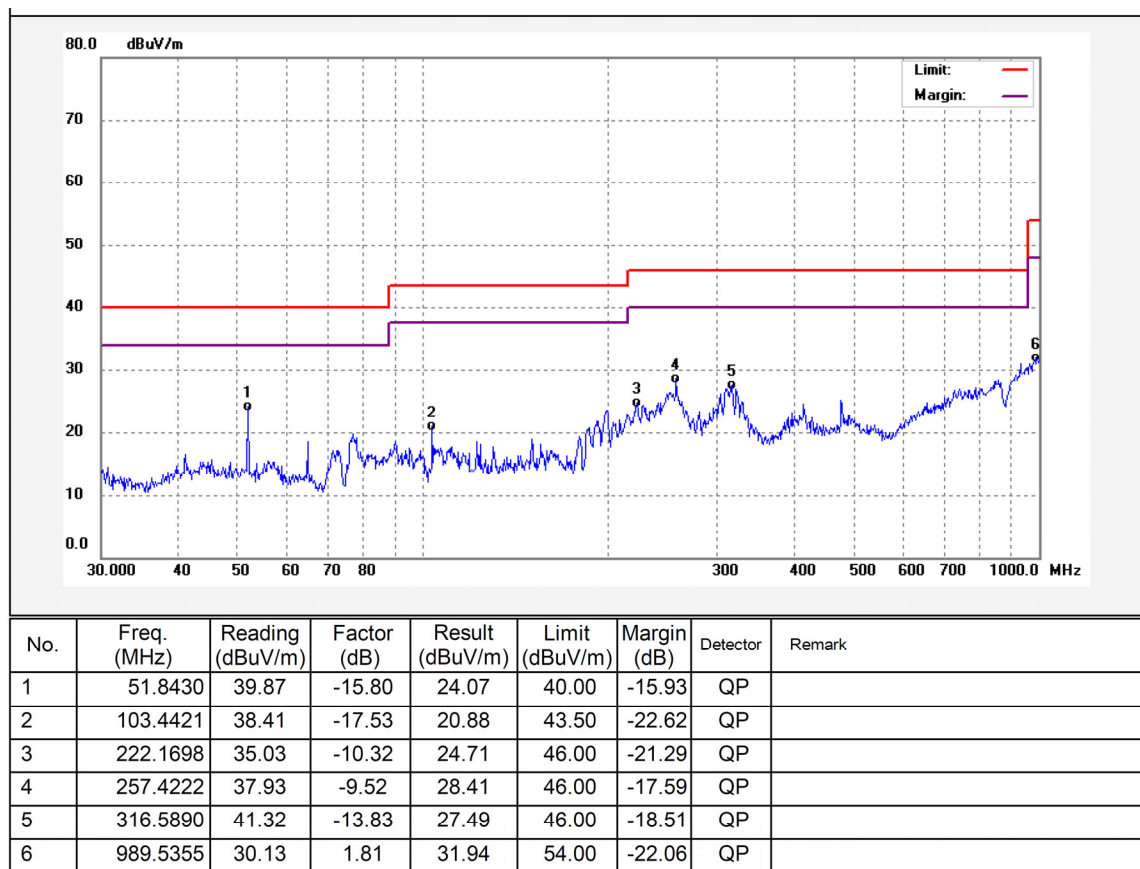
6.2.4 Radiated Emission Test Data, 30MHz to 1000MHz

Antenna Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	40.2757	42.62	-16.19	26.43	40.00	-13.57	QP	
2	52.0251	49.61	-15.80	33.81	40.00	-6.19	QP	
3	77.8654	45.88	-18.88	27.00	40.00	-13.00	QP	
4	156.4578	40.29	-13.80	26.49	43.50	-17.01	QP	
5	220.6171	43.05	-15.43	27.62	46.00	-18.38	QP	
6	303.5437	43.36	-14.63	28.73	46.00	-17.27	QP	

Antenna Polarization: Horizontal



6.3 Radiation Emission, Above 1000MHz

Test Requirement..... : FCC Part 15 Subpart B
 Test Method..... : ANSI C63.4
 Test Result : Pass
 Frequency Range..... : Above 1GHz
 Class. : Class B
 Limit. :

Frequency Range (MHz)	Distance (Meter)	Average Limit dB(uV/m)	Peak Limit (dBuV/m)
Above 1GHz	3	54	74

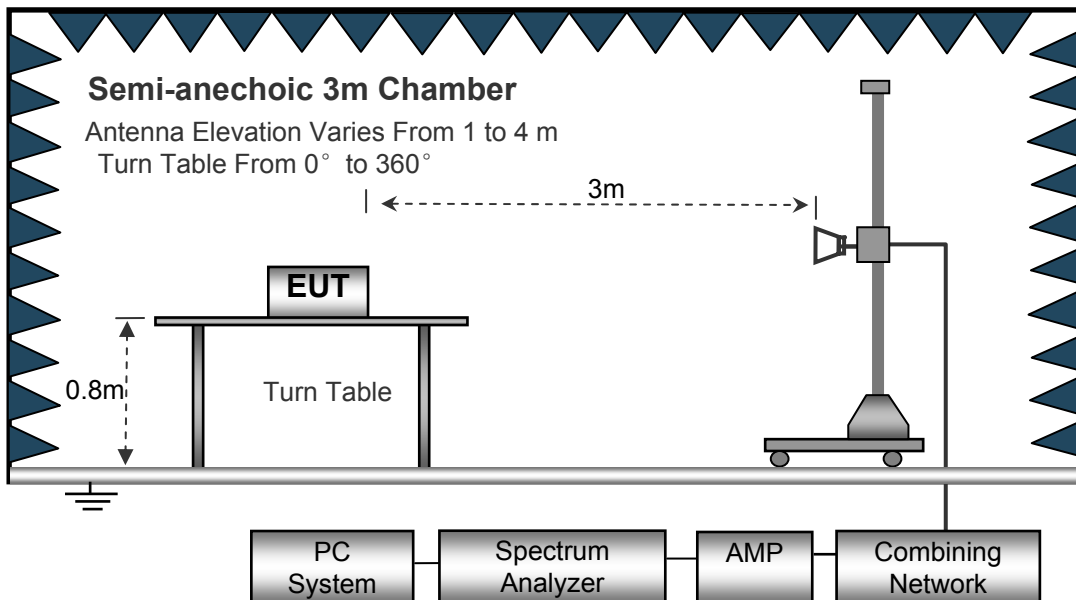
6.3.1 E.U.T. Operation

Operating Environment:

Temperature..... : 26.3°C
 Humidity..... : 49.8%RH
 Atmospheric Pressure : 101.2kPa
 EUT Operation : Refer to section 5.3.

6.3.2 Block Diagram of Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4.

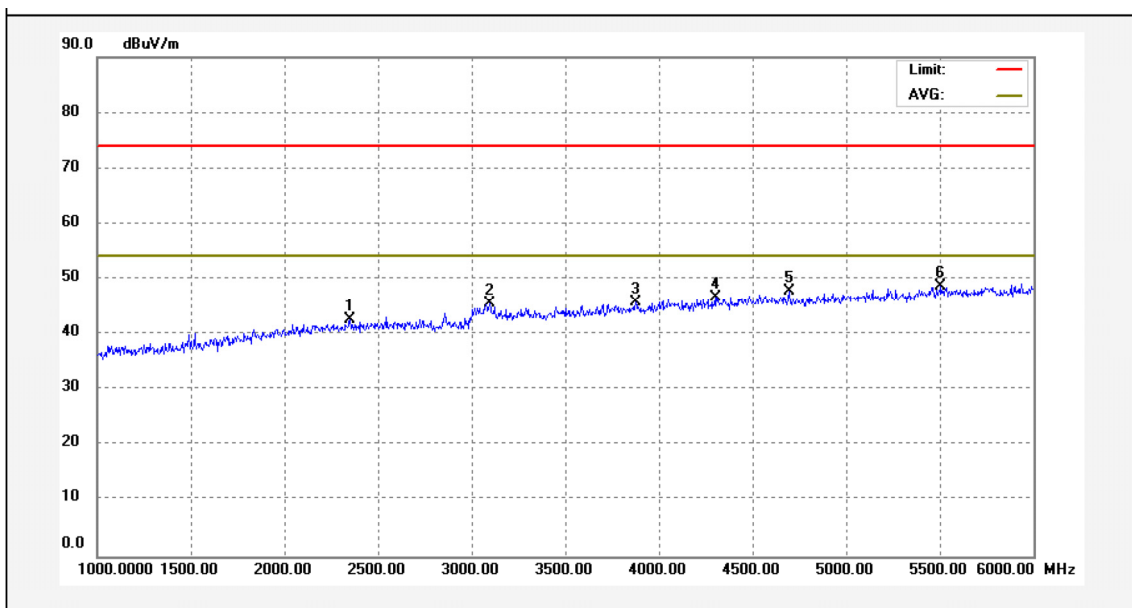


6.3.3 Measurement Data

The maximised peak emissions from the EUT was scanned and measured for both the Antenna Vertical Polarization and Antenna Horizontal Polarization. Average measurements were performed if peak emissions were within 6dB of the average limit line

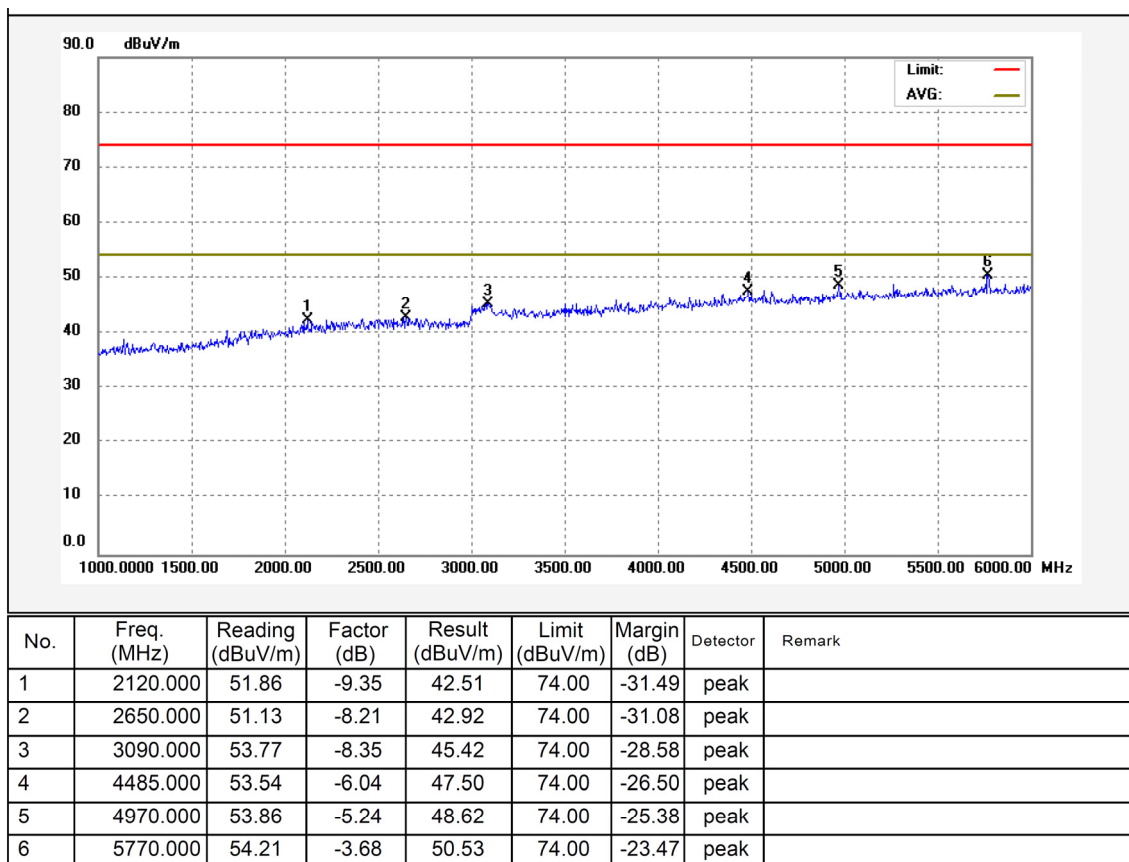
6.3.4 Radiated Emission test data, Above 1000MHz

Antenna Polarization: Vertical



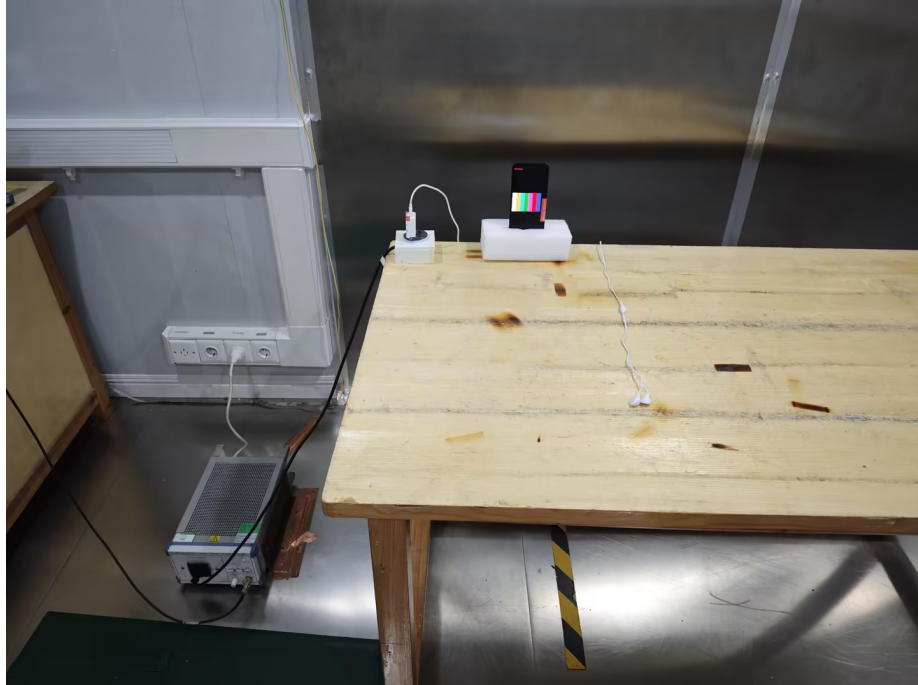
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	2350.000	51.37	-8.63	42.74	74.00	-31.26	peak	
2	3095.000	53.98	-8.35	45.63	74.00	-28.37	peak	
3	3875.000	53.28	-7.43	45.85	74.00	-28.15	peak	
4	4300.000	53.21	-6.46	46.75	74.00	-27.25	peak	
5	4695.000	53.44	-5.69	47.75	74.00	-26.25	peak	
6	5505.000	52.79	-4.12	48.67	74.00	-25.33	peak	

Antenna Polarization: Horizontal



7 Photographs – Test Setup

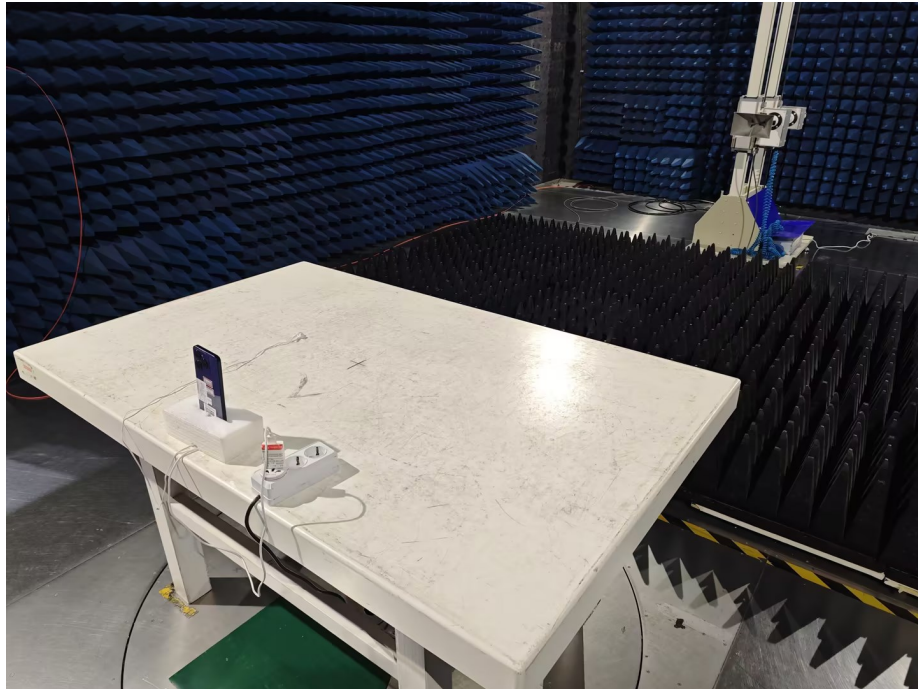
7.1 Photograph –AC Power Line Conducted Emission Test Setup



7.2 Photograph – Radiated Emission Test Setup For 30MHz-1000MHz



7.3 Photograph –Radiated Emissions Test Setup For Above 1GHz



8 Photographs – Constructional Details

Note: Please refer to appendix: Appendix-Black C Plus-Photos.

=====End of Report=====