

TEST REPORT

Reference No...... : WTD25D10263566W001
FCC ID : 2AEPBLACKG4S
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..... : Smart Phone
Model(s) : Black G4S
Brand Name..... : Kalley
Standards : FCC Part 15 Subpart B
Date of Receipt sample : 2025-10-10
Date of Test : 2025-10-11 to 2025-10-22
Date of Issue..... : 2025-12-05
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.

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2 Revision History

Test Report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD25D10263566W001	2025-10-10	2025-10-11 to 2025-10-22	2025-12-05	Original	-	Valid

3 General Information

3.1 General Description of E.U.T.

Product : Smart Phone

Model(s)..... : Black G4S

Model Description..... : N/A

Test Sample No. : 1-1/1

3.2 Details of E.U.T.

Ratings : Battery: DC 3.85V, 4900mAh, 18.86Wh
DC 5V, 2A charging from adapter
Adapter : Model: UT-681A-5200ZCY
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
Disturbance voltage at the antenna terminals (30MHz to 2150MHz)	FCC Part 15 Subpart B	N/A
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	2025-07-04	2026-07-03
2	LISN	R&S	ENV216	100115	2025-06-03	2026-06-02
3	Cable	Top	TYPE16(3.5M)	-	2025-06-03	2026-06-02
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	2025-04-19	2026-04-18
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2025-07-05	2026-07-04
3	Amplifier	ANRITSU	MH648A	M43381	2025-04-19	2026-04-18
4	Cable	HUBER+SUHNER	CBL2	525178	2025-04-19	2026-04-18
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	2025-04-19	2026-04-18
2	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1314	2025-08-09	2026-08-08
3	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	2025-07-04	2026-07-03
4	Coaxial Cable (above 1GHz)	Top	1GHz-18GHz	NA	2025-07-04	2026-07-03

Test Software:

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

5.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
/	/	/	/

5.3 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 $k=2$.

5.4 Test Mode

Test Mode List:		
TM No.	Test Mode	Description
TM1	Adapter + Camera On + earphone	AC 120V/60Hz
TM2	Adapter + Video Playing + earphone	AC 120V/60Hz
TM3	Data Exchanging + earphone	AC 120V/60Hz
TM4	Adapter + FM receiving + earphone	AC 120V/60Hz

Summary of Test Items		
Item	Requirement	Test Mode
Conducted emissions on AC mains	15.107, Class B	TM1, 2, 3*, 4
Radiated emissions (Below 1GHz)	15.109, Class B	TM1, 2, 3, 4*
Radiated emissions (Above 1GHz)	15.109, Class B	TM1*, 2, 3, 4

“*” 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)	
	Quasi-peak	Average
0.15 to 0.5	66 to 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..... : 24.7°C

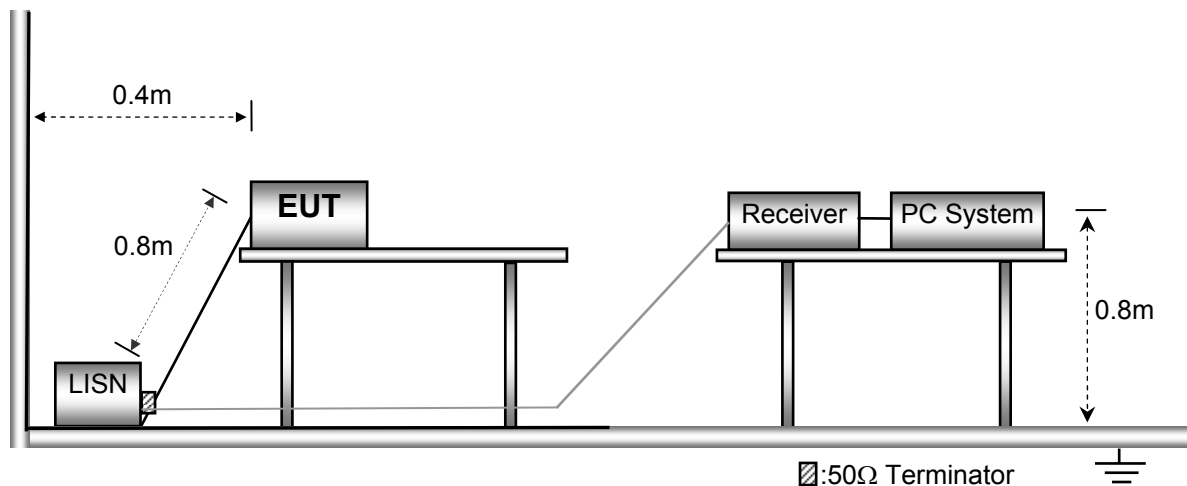
Humidity..... : 59.2%RH

Atmospheric Pressure : 101.1kPa

EUT Operation : Refer to section 5.4.

6.1.2 Block Diagram of Test Setup

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

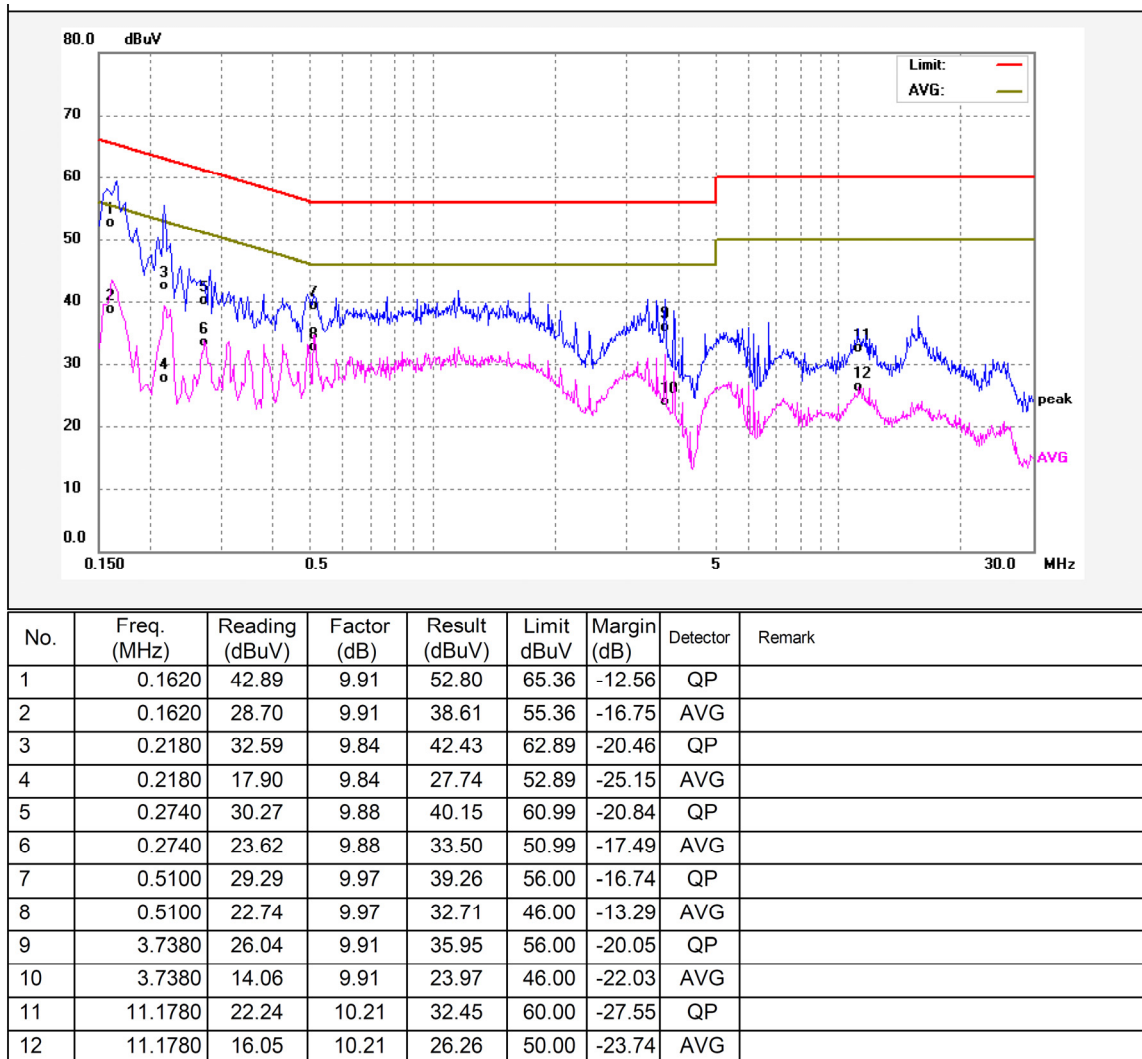


6.1.3 Measurement Data

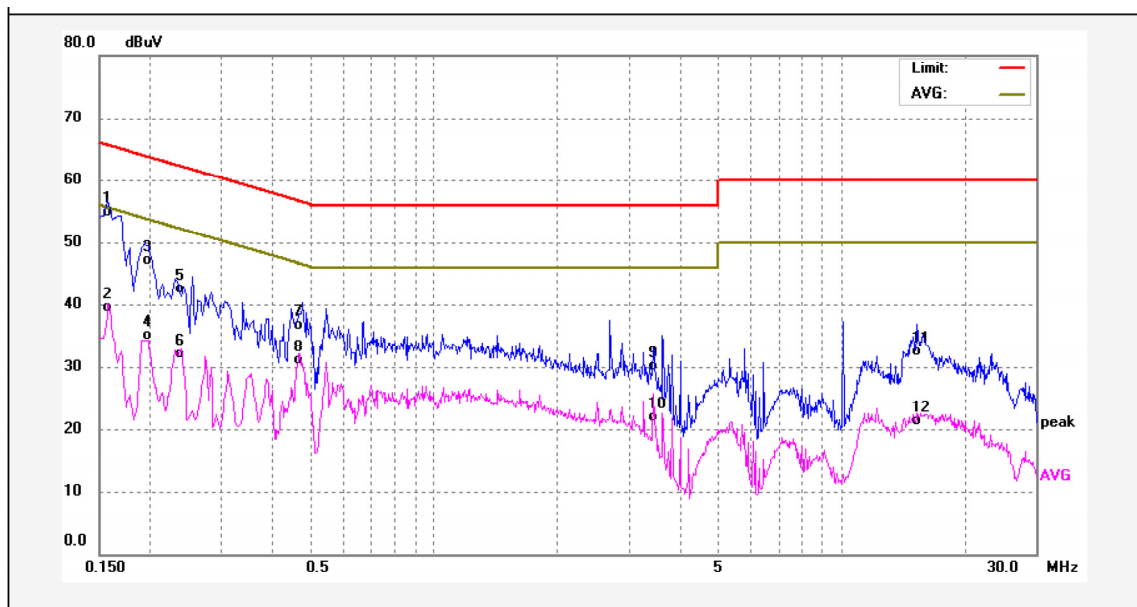
The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line. According to the data in section 6.1.4, the EUT complied with the FCC PART 15, SUBPART 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	0.1580	44.92	10.05	54.97	65.56	-10.59	QP	
2	0.1580	29.48	10.05	39.53	55.56	-16.03	AVG	
3	0.1980	37.29	9.83	47.12	63.69	-16.57	QP	
4	0.1980	25.21	9.83	35.04	53.69	-18.65	AVG	
5	0.2380	32.63	9.79	42.42	62.16	-19.74	QP	
6	0.2380	22.34	9.79	32.13	52.16	-20.03	AVG	
7	0.4660	26.85	9.91	36.76	56.58	-19.82	QP	
8	0.4660	21.12	9.91	31.03	46.58	-15.55	AVG	
9	3.4500	19.99	10.03	30.02	56.00	-25.98	QP	
10	3.4500	11.82	10.03	21.85	46.00	-24.15	AVG	
11	15.3580	22.21	10.24	32.45	60.00	-27.55	QP	
12	15.3580	10.99	10.24	21.23	50.00	-28.77	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

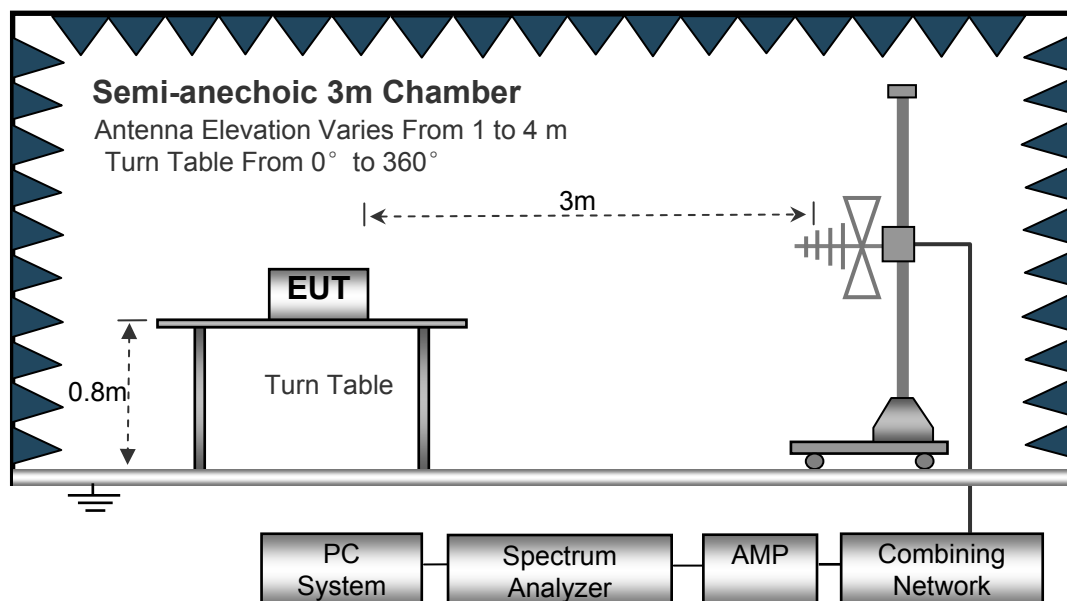
6.2.1 E.U.T. Operation

Operating Environment:

Temperature..... : 25.4°C
 Humidity..... : 48.5%RH
 Atmospheric Pressure : 101.4kPa
 EUT Operation : Refer to section 5.4.

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.

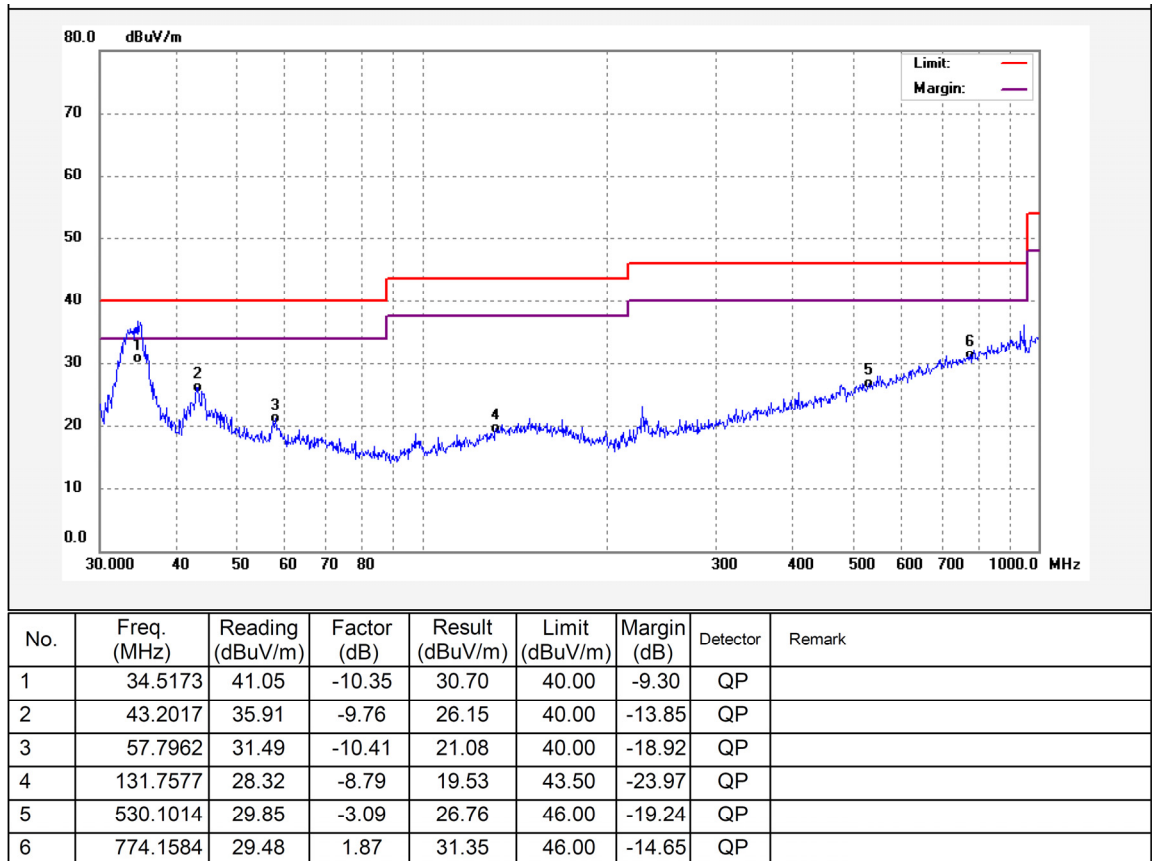


6.2.3 Measurement Data

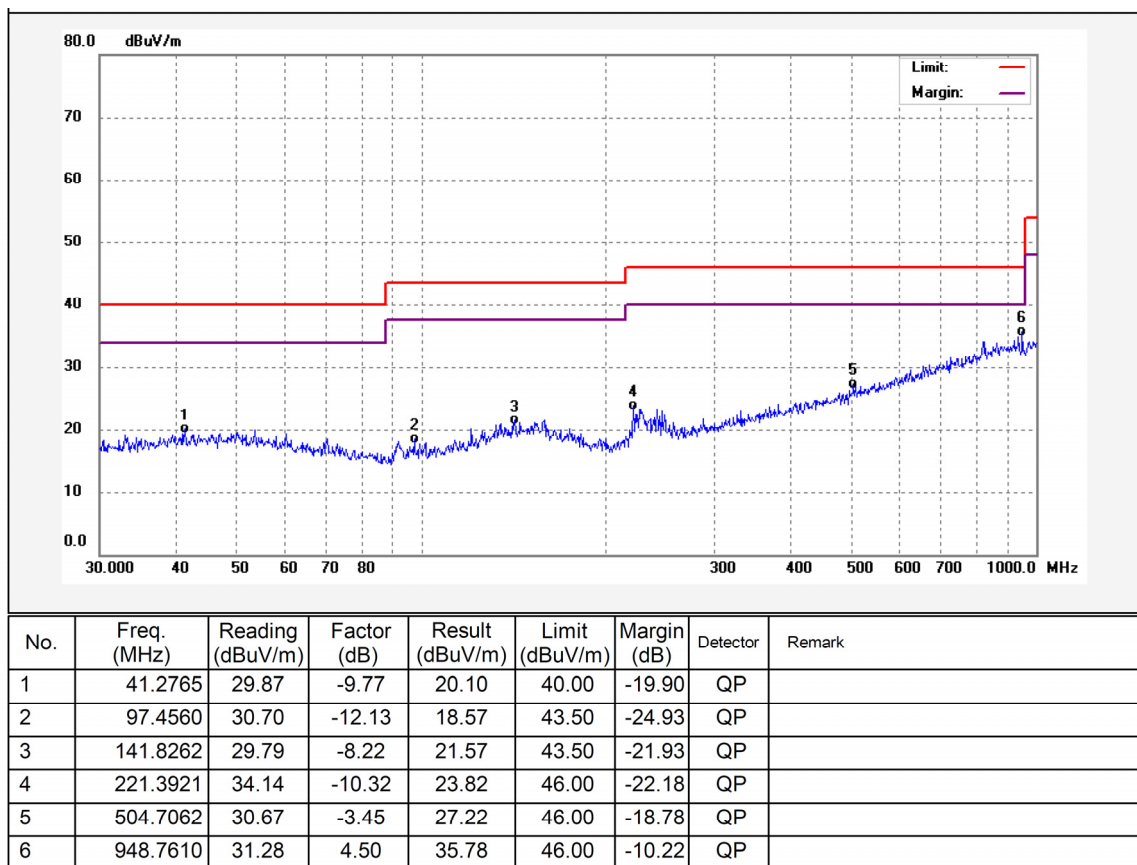
The maximised peak emissions from the EUT was scanned and measured for both the Antenna Vertical Polarization and Antenna Horizontal Polarization. Quasi-peak measurements were performed if peak emissions were within 6dB of the Quasi-peak limit line.

6.2.4 Radiated Emission Test Data, 30MHz to 1000MHz

Antenna Polarization: Vertical



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

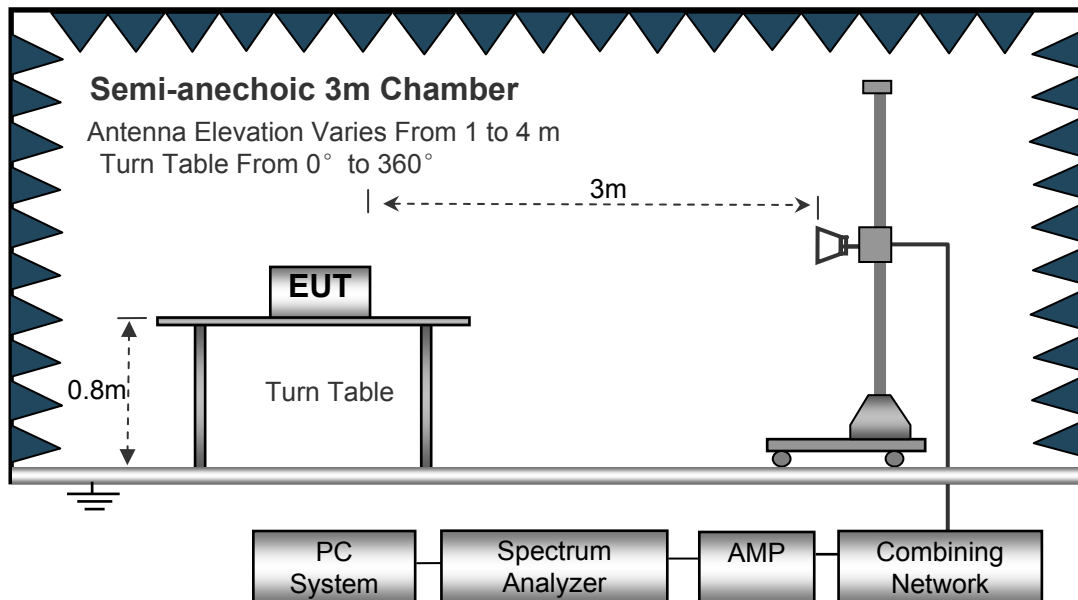
6.3.1 E.U.T. Operation

Operating Environment:

Temperature..... : 25.4°C
 Humidity..... : 55.8%RH
 Atmospheric Pressure : 101.2kPa
 EUT Operation : Refer to section 5.4.

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.

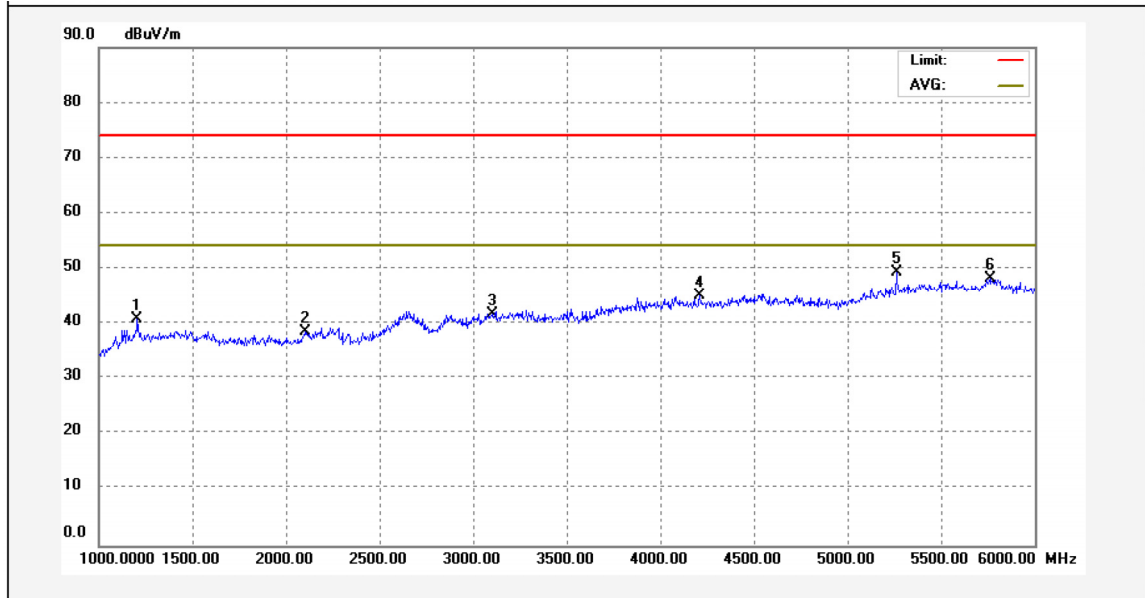


6.3.3 Measurement Data

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

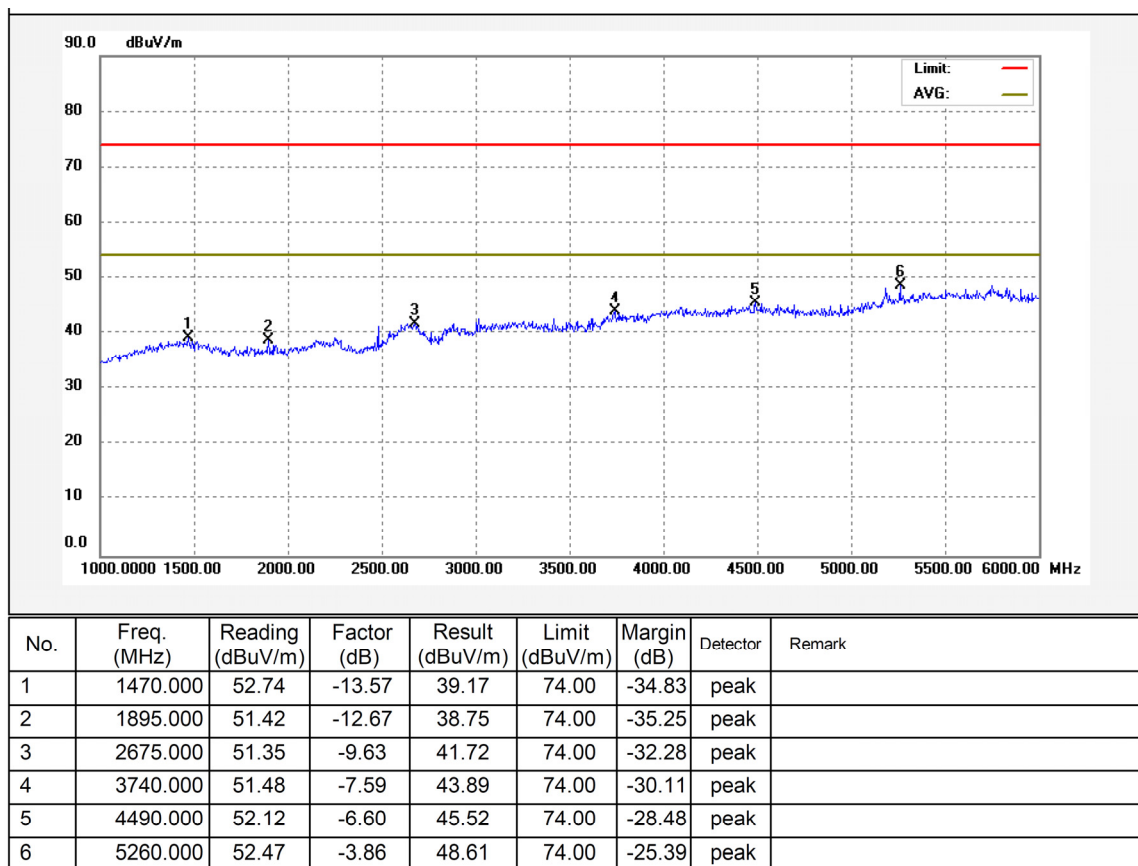
6.3.4 Radiated Emission test data, Above 1000MHz

Antenna Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1205.000	54.94	-14.02	40.92	74.00	-33.08	peak	
2	2100.000	49.95	-11.26	38.69	74.00	-35.31	peak	
3	3100.000	50.42	-8.63	41.79	74.00	-32.21	peak	
4	4210.000	52.24	-7.23	45.01	74.00	-28.99	peak	
5	5260.000	53.19	-3.86	49.33	74.00	-24.67	peak	
6	5760.000	51.67	-3.49	48.18	74.00	-25.82	peak	

Antenna Polarization: Horizontal

**Test Frequency: 6GHz~12.5GHz**

The measurements were more than 20 dB below the limit and not reported.

7 Photographs – Test Setup

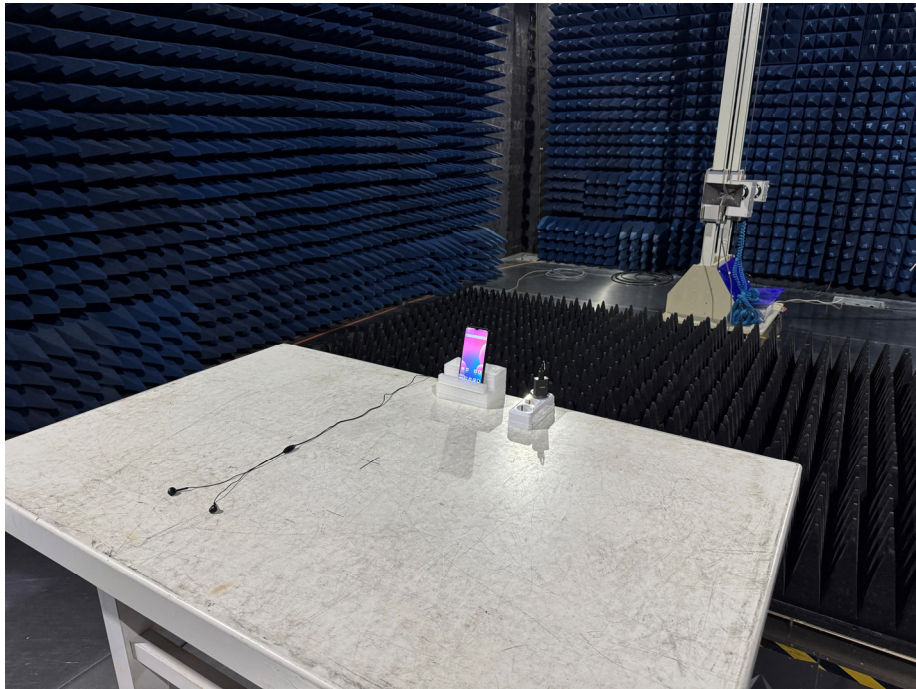
7.1 Photograph –AC Power Line Conducted Emission Test Setup



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 G4S-Photos.

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