



TEST REPORT

APPLICANT : Cloud Mobile Holdings, LLC

PRODUCT NAME : Smart phone

MODEL NAME : MC8C654B

BRAND NAME : Cloud Mobile

FCC ID : 2AY6A-C8PL

STANDARD(S) : 47 CFR Part 15 Subpart B

RECEIPT DATE : 2025-06-09

TEST DATE : 2025-06-10

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Change History		
Version	Date	Reason for Change
1.0	2025-07-25	First edition



1. Technical Information

Note: Provide by applicant

1.1. Applicant and Manufacturer Information

Applicant:	Cloud Mobile Holdings, LLC
Applicant Address:	1149 S HILL ST H400 LOS ANGELES, CA 90015
Manufacturer:	Cloud Mobile Holdings, LLC
Manufacturer Address:	1149 S HILL ST H400 LOS ANGELES, CA 90015

1.2. Equipment Under Test (EUT) Description

Product Name:	Smart phone
EUT No.:	14#
Hardware Version:	v1.0
Software Version:	StratusC8PlusV01.03.10
Tx Frequency:	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 66: 1710 MHz ~ 1780 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/ac/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5720 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Rx Frequency:	GSM850: 869 MHz ~ 894 MHz GSM1900: 1930 MHz ~ 1990 MHz WCDMA Band II: 1930 MHz ~ 1990 MHz WCDMA Band IV: 2110 MHz ~ 2155 MHz WCDMA Band V: 869 MHz ~ 894 MHz LTE Band 2: 1930 MHz ~ 1990 MHz



	LTE Band 4: 2110 MHz ~ 2155 MHz LTE Band 5: 869 MHz ~ 894 MHz LTE Band 12: 729 MHz ~ 746 MHz LTE Band 13: 746 MHz ~ 756 MHz LTE Band 66: 2110 MHz ~ 2200 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/ac/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz ~ 5720 MHz; 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Accessory:	AC Adapter Brand Name: N/A Model No.: TN-050200U3 Serial No.: (N/A, marked #1 by test site) Rated Input: 100-240V~50/60Hz, 0.35A Rated Output: 5.0V=2.0A Manufacturer: Dong Guan City GangQi Electronic Co., Ltd. Battery Brand Name: N/A Model No.: 456480 Serial No.: (N/A, marked #1 by test site) Capacity: 3900mAh Rated Voltage: 3.88V Charge Limit: 4.45V Manufacturer: Huizhou Highpower Technology Co.,LTD. USB Cable Model: T365-011B-1 Manufacturer: Shenzhen Yihuaxing Electronics Co. Ltd.

Note:

1. The declarations of EUT presented in the report are provided by applicant, and the test laboratory is not responsible for the accuracy of the information. For a more detailed description, please refer to specification or user's manual supplied by the applicant.



2. Test Results

2.1. Applied Reference Documents

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart B:

No.	Identity	Document Title
1	47 CFR Part 15	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Test Engineer	Result	Remark
1	15.107	Conducted Emission	2025.06.10	Fan Shengquan Wang Yapeng	PASS	/
2	15.109	Radiated Emission	2025.06.10	Wang Deyong	PASS	/

Note 1: The tests were performed according to the method of measurements prescribed in ANSI C63.4-2014.

Note 2: Any additions, deviation, or exclusions from the method shall be noted in the “Remark”.



2.2. EUT Setup and Operating Conditions

Note: All of the following test modes are tested in all the test items.

Test Item	
Mode 1	EUT + GSM850 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter + USB Cable + Earphone
Mode 2	EUT + GSM1900 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter + USB Cable + Earphone
Mode 3	EUT + WCDMA Band II Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter + USB Cable + Earphone
Mode 4	EUT + WCDMA Band IV Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter + USB Cable + Earphone
Mode 5	EUT + WCDMA Band V Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter + USB Cable + Earphone
Mode 6	EUT + LTE Band 2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter + USB Cable + Earphone
Mode 7	EUT + LTE Band 4 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter + USB Cable + Earphone
Mode 8	EUT + LTE Band 5 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter + USB Cable + Earphone
Mode 9	EUT + LTE Band 12 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter + USB Cable + Earphone
Mode 10	EUT + LTE Band 13 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter + USB Cable + Earphone
Mode 11	EUT + LTE Band 66 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter + USB Cable + Earphone
Mode 12	EUT + WCDMA Band II Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable + Earphone + PC + Data Transmission Mode
Mode 13	EUT + WCDMA Band V Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter + USB Cable + Earphone + Rear Camera Mode
Mode 14	EUT + LTE Band 2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + AC Adapter + USB Cable + Earphone + Front Camera Mode
Mode 15	EUT + LTE Band 4 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + AC Adapter + USB Cable + Earphone + Play 1kHz Color Bar Video
Mode 16	EUT + LTE Band 13 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable + Earphone + PC + PC Adapter + Indirect Supply Mode

**Remark:**

The above test mode in boldface (Mode 16) was the worst case of conducted emission test, only the test data of this mode was reported. The above test mode in boldface (Mode 12) was the worst case of radiated emission test, only the test data of this mode was reported.

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 - 60
Atmospheric Pressure (kPa):	86 - 106

3. 47 CFR Part 15B Requirements

3.1. Conducted Emission

3.1.1. Requirement

According to FCC section 15.107, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

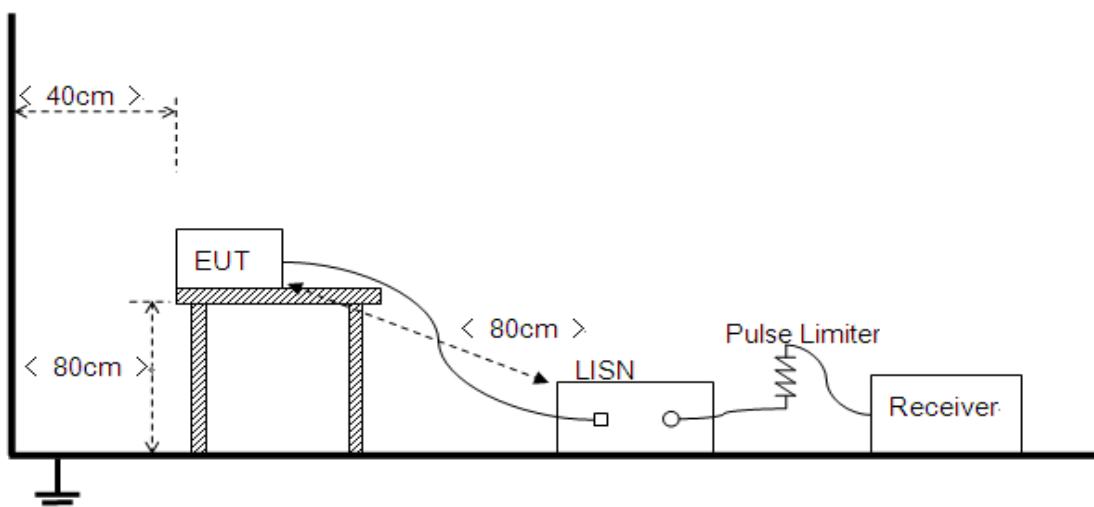
Frequency Range (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

NOTE:

- a) The limit subjects to the Class B digital device.
- b) The lower limit shall apply at the band edges.
- c) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

3.1.2. Test Setup

Please refer to Annex A for the photographs of the Test Configuration.





The EUT is placed on a 0.8m high insulating table, which stands on the grounded conducting floor, and keeps 0.4m away from the grounded conducting wall. The EUT is connected to the power mains through a LISN which provides $50\Omega/50\mu\text{H}$ of coupling impedance for the measuring instrument. A Pulse Limiter is used to protect the measuring instrument. The factors of the whole test system are calibrated to correct the reading.

The power strip or extension cord has been investigated to make sure that the LISN integrity is maintained with respect to the impedance characteristics as prescribed in ANSI C63.4-2014 at Clause 4.3.

3.1.3. Test Result

Set RBW=9 kHz, VBW=30 kHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. All test modes are considered, refer to recorded points and plots below.

The measurement results are obtained as below:

$$E [\text{dB}\mu\text{V}] = U_R [\text{dB}\mu\text{V}] + L_{\text{Cable loss}} [\text{dB}] + A_{\text{Factor}} [\text{dB}]$$

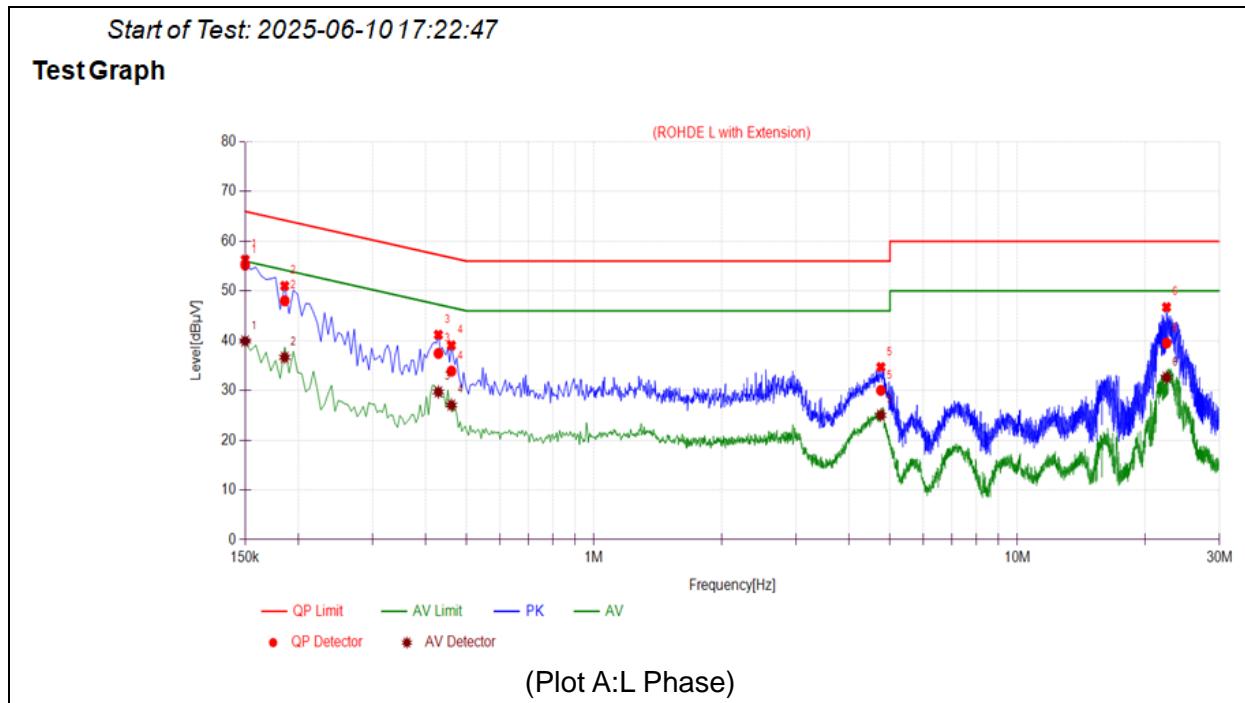
U_R : Receiver Reading

A_{Factor} : Voltage Division Factor of LISN

$L_{\text{Cable loss}}$: Correction Factor Contains Pulse Limiter and Cable

During the test, the total correction Factor $L_{\text{Cable loss}}$ and A_{Factor} were built in test software.

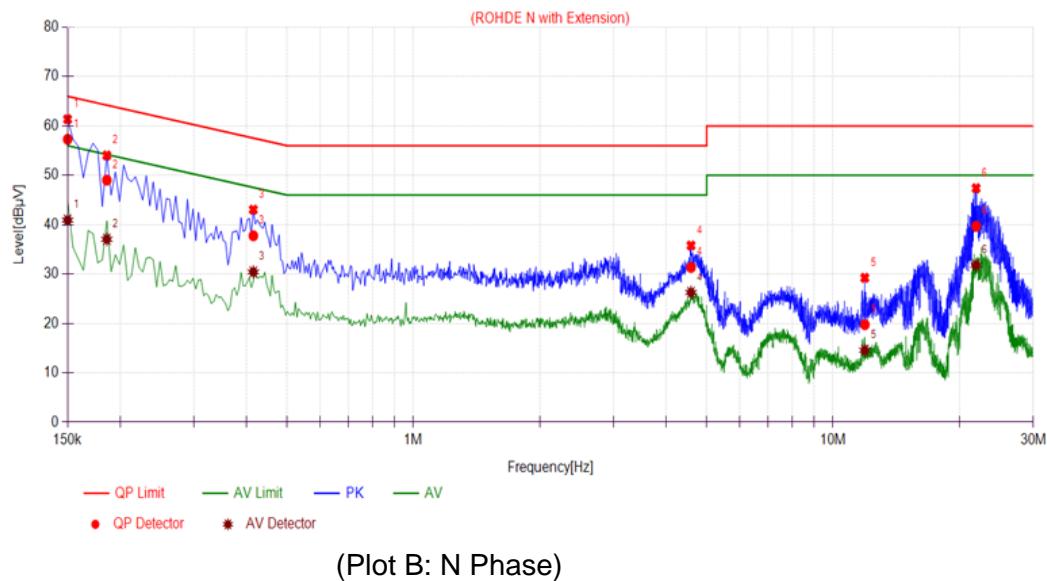
A. Test Plot and Suspicious Points:



No.	Fre. (MHz)	Emission Level (dB μ V)		Limit (dB μ V)		Power-line	Verdict
		Quasi-peak	Average	Quasi-peak	Average		
1	0.1500	55.20	39.94	66.00	56.00	Line	PASS
2	0.1860	48.03	36.66	64.21	54.21		PASS
3	0.4290	37.45	29.70	57.27	47.27		PASS
4	0.4605	33.89	27.06	56.68	46.68		PASS
5	4.7582	30.01	25.04	56.00	46.00		PASS
6	22.4946	39.53	32.64	60.00	50.00		PASS

Start of Test: 2025-06-10 17:18:48

Test Graph



No.	Fre. (MHz)	Emission Level (dB μ V)		Limit (dB μ V)		Power-line	Verdict
		Quasi-peak	Average	Quasi-peak	Average		
1	0.1500	57.30	40.92	66.00	56.00	Neutral	PASS
2	0.1860	49.03	37.04	64.21	54.21		PASS
3	0.4155	37.75	30.43	57.54	47.54		PASS
4	4.5871	31.35	26.27	56.00	46.00		PASS
5	11.9044	19.76	14.57	60.00	50.00		PASS
6	21.9189	39.68	31.82	60.00	50.00		PASS



3.2. Radiated Emission

3.2.1. Requirement

According to FCC section 15.109 (a), the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency Range (MHz)	Field Strength Limitation at 3m Measurement Dist	
	(μ V/m)	(dB μ V/m)
30.0 - 88.0	100	20log 100
88.0 - 216.0	150	20log 150
216.0 - 960.0	200	20log 200
Above 960.0	500	20log 500

As shown in FCC section 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

Note:

- 1) The tighter limit shall apply at the boundary between two frequency range.
- 2) Limitation expressed in dB μ V/m is calculated by 20log Emission Level(μ V/m).

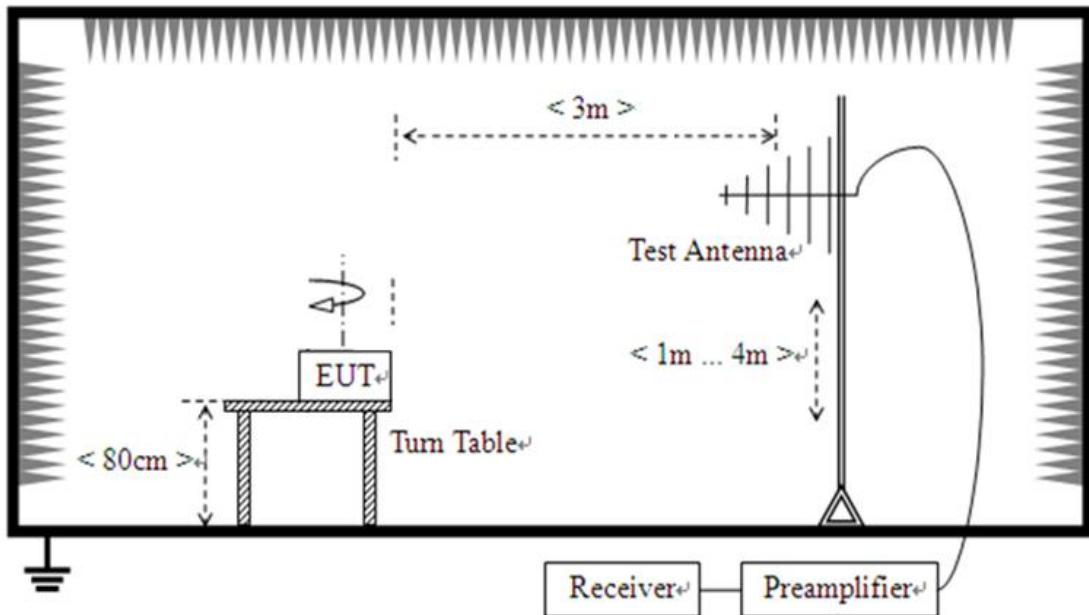
3.2.2. Frequency Range of Measurement

According to 15.33(b)(1), the frequency range of radiated measurement for the EUT is listed in the following table:

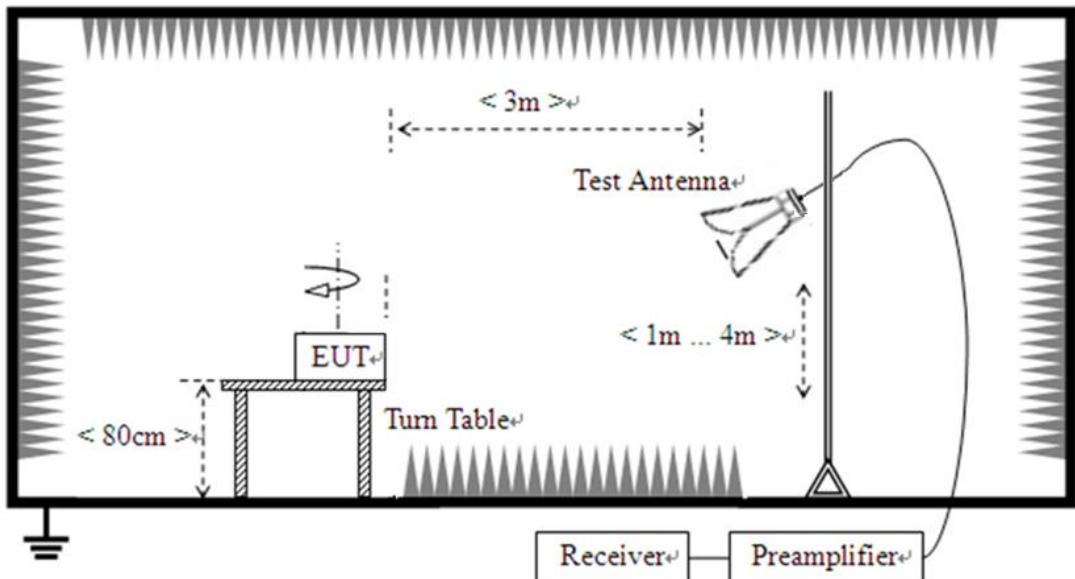
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30.
1.705–108	1000.
108–500	2000.
500–1000	5000.
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

3.2.3. Test Setup

- 1) For radiated emissions from 30MHz to1GHz



- 2) For radiated emissions above 1GHz





The test is performed in a 3m Semi-Anechoic Chamber; the antenna factor, cable loss and so on of the site (factors) is calculated to correct the reading. The EUT is placed on a 0.8m high insulating Turn Table, and keeps 3m away from the Test Antenna, which is mounted on variable-height antenna master tower.

For the test Antenna:

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested. For measurements above 1 GHz, keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

For measurements below 1GHz the resolution bandwidth is set to 120 kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video bandwidth is set to 3MHz for peak measurements and as applicable for average measurements.

3.2.4. Test Result

The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors. Both the vertical and the horizontal polarizations of the Test Antenna are considered to perform the tests. All test modes are considered, refer to recorded points and plots below.

The amplitude of emissions which (6GHz-30GHz) are attenuated more than 20 dB below the permissible value need not be reported.

The measurement results are obtained as below:

$$E [dB\mu V/m] = U_R [dB\mu V] + A_T [dB] + A_{Factor} [dB]; A_T = L_{Cable\ loss} [dB] - G_{preamp} [dB]$$

A_T : Total correction Factor except Antenna

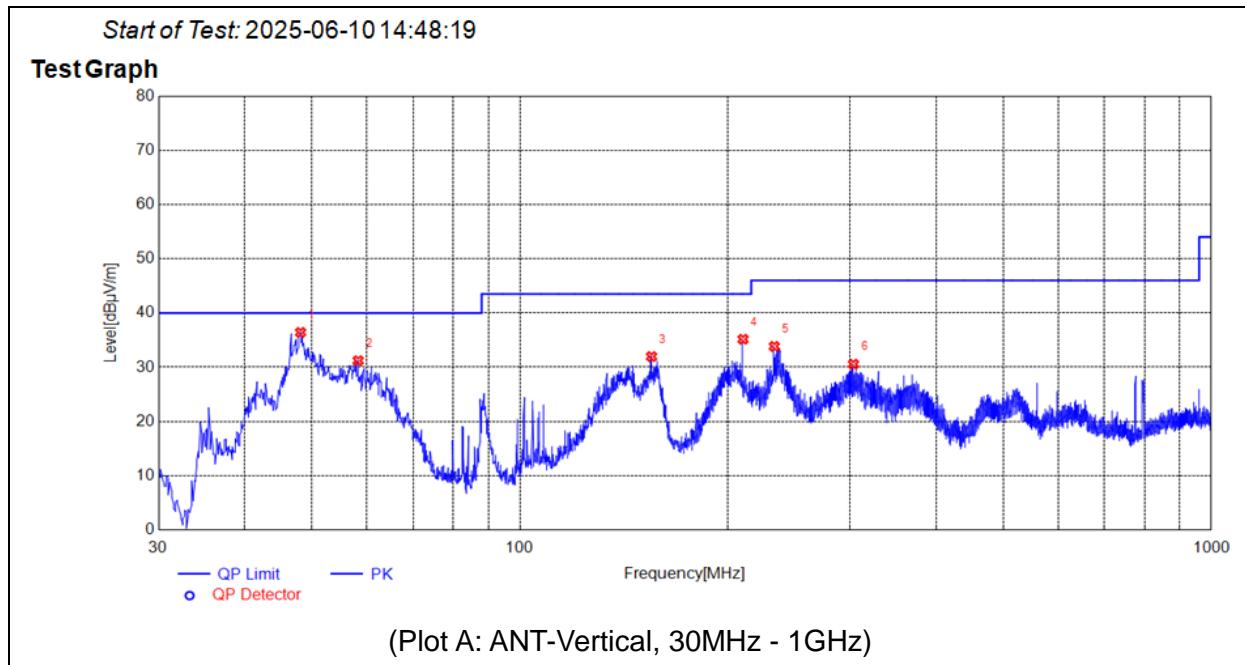
U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

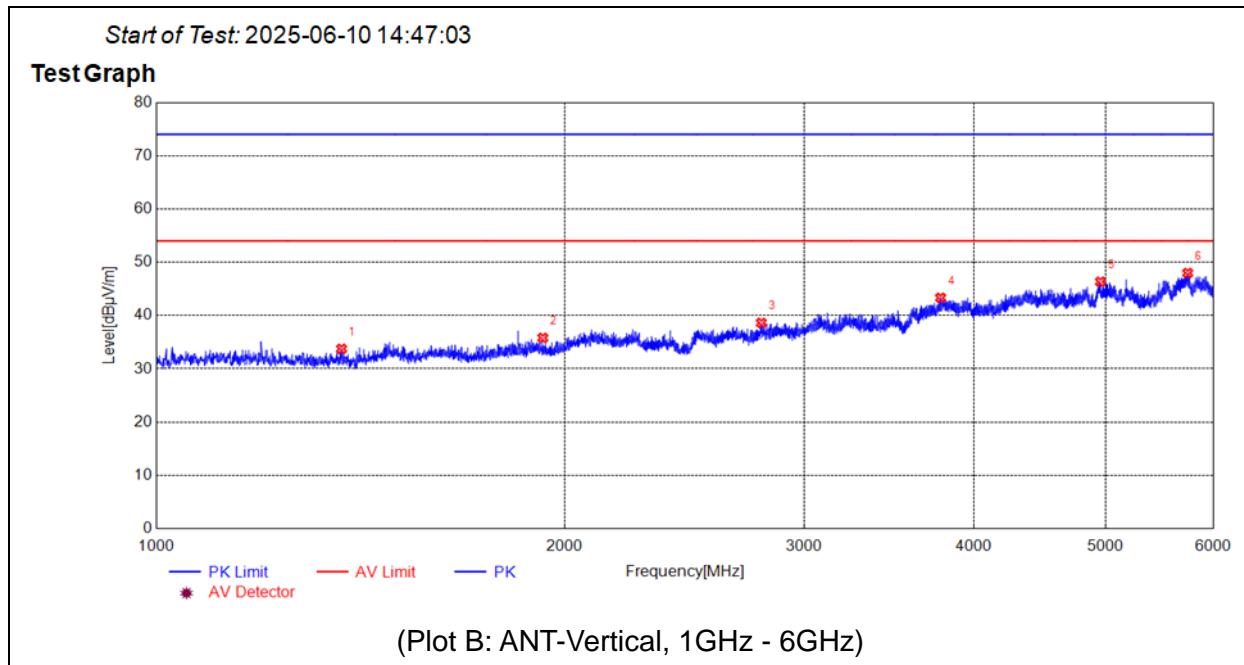
A_{Factor} : Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

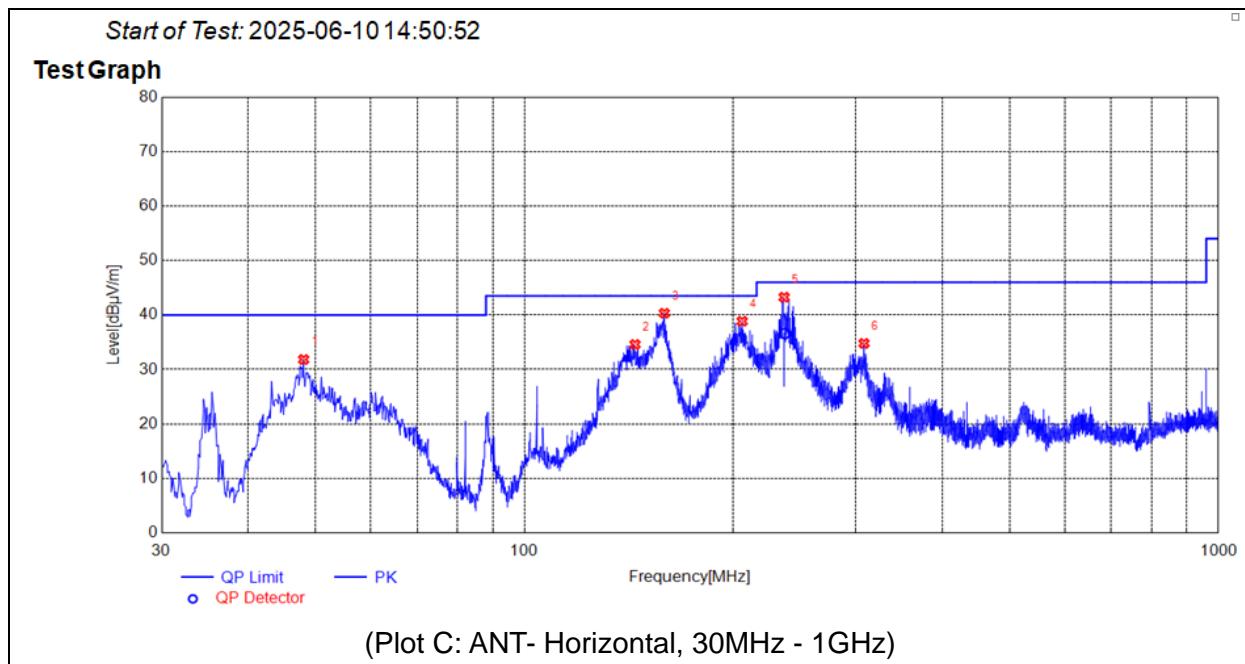
Note: All radiated emission tests were performed in X, Y, Z axis direction, and only the worst axis test condition was recorded in this test report.



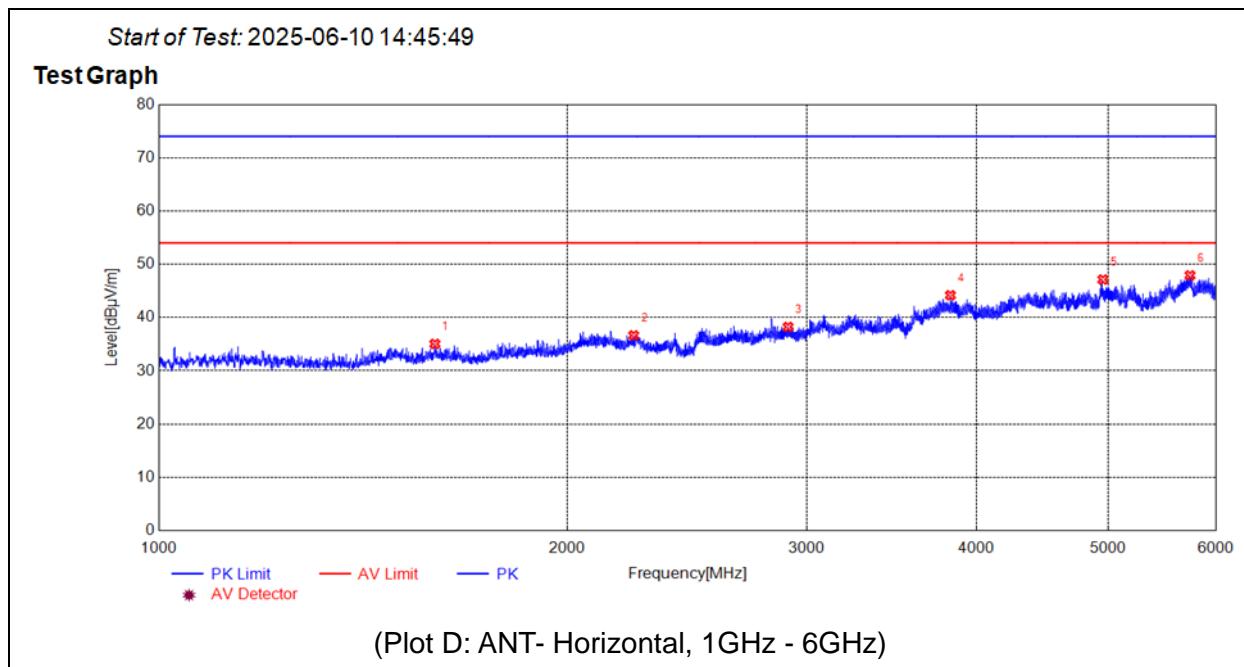
No.	Fre. MHz	PK dB μ V/m	QP dB μ V/m	AV dB μ V/m	Limit-PK dB μ V/m	Limit-QP dB μ V/m	Limit-AV dB μ V/m	ANT	Verdict
1	48.1408	36.42	N.A	N.A	N.A	40.00	N.A	V	PASS
2	58.3268	31.21	N.A	N.A	N.A	40.00	N.A	V	PASS
3	154.9485	31.97	N.A	N.A	N.A	43.50	N.A	V	PASS
4	210.1470	35.16	N.A	N.A	N.A	43.50	N.A	V	PASS
5	233.2353	33.84	N.A	N.A	N.A	46.00	N.A	V	PASS
6	303.5674	30.56	N.A	N.A	N.A	46.00	N.A	V	PASS



No.	Fre. MHz	PK dB μ V/m	QP dB μ V/m	AV dB μ V/m	Limit-PK dB μ V/m	Limit-QP dB μ V/m	Limit-AV dB μ V/m	ANT	Verdict
1	1369.5000	33.75	N.A	N.A	74.00	N.A	54.00	V	PASS
2	1926.5000	35.80	N.A	N.A	74.00	N.A	54.00	V	PASS
3	2790.0000	38.63	N.A	N.A	74.00	N.A	54.00	V	PASS
4	3781.0000	43.33	N.A	N.A	74.00	N.A	54.00	V	PASS
5	4958.0000	46.35	N.A	N.A	74.00	N.A	54.00	V	PASS
6	5748.0000	47.98	N.A	N.A	74.00	N.A	54.00	V	PASS



No.	Fre. MHz	PK dB μ V/m	QP dB μ V/m	AV dB μ V/m	Limit-PK dB μ V/m	Limit-QP dB μ V/m	Limit-AV dB μ V/m	ANT	Verdict
1	48.0438	31.83	N.A	N.A	N.A	40.00	N.A	H	PASS
2	144.2774	34.58	N.A	N.A	N.A	43.50	N.A	H	PASS
3	159.0229	40.32	N.A	N.A	N.A	43.50	N.A	H	PASS
4	205.8786	38.85	N.A	N.A	N.A	43.50	N.A	H	PASS
5	236.6307	43.26	36.60	N.A	N.A	46.00	N.A	H	PASS
6	308.4178	34.78	N.A	N.A	N.A	46.00	N.A	H	PASS



No.	Fre. MHz	PK dB μ V/m	QP dB μ V/m	AV dB μ V/m	Limit-PK dB μ V/m	Limit-QP dB μ V/m	Limit-AV dB μ V/m	ANT	Verdict
1	1597.5000	35.05	N.A	N.A	74.00	N.A	54.00	H	PASS
2	2237.5000	36.64	N.A	N.A	74.00	N.A	54.00	H	PASS
3	2907.0000	38.24	N.A	N.A	74.00	N.A	54.00	H	PASS
4	3828.0000	44.18	N.A	N.A	74.00	N.A	54.00	H	PASS
5	4957.0000	47.13	N.A	N.A	74.00	N.A	54.00	H	PASS
6	5746.0000	47.92	N.A	N.A	74.00	N.A	54.00	H	PASS



Annex A Test Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

Uncertainty of Conducted Emission Measurement

Measuring Uncertainty for a Level of Confidence of 95%($U=2U_c(y)$)	9kHz-150kHz	$\pm 2.1\text{dB}$
	150kHz-30MHz	$\pm 2.75\text{dB}$

Uncertainty of Radiated Emission Measurement

Measuring Uncertainty for a Level of Confidence of 95%($U=2U_c(y)$)	30MHz-200MHz	$\pm 4.3\text{dB}$
	200MHz-1000MHz	$\pm 4.4\text{dB}$
	1GHz-6GHz	$\pm 4.7\text{dB}$
	6GHz-18GHz	$\pm 5.2\text{dB}$
	18GHz-40GHz	$\pm 5.3\text{dB}$



Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Accreditation Certificate

Accredited Testing Laboratory:	The FCC designation number is CN1192. Test firm registration number is 226174. (Shenzhen Morlab Communications Technology Co., Ltd.)
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4. Test Software Utilized

Model	Version Number	Producer
TS+ -[JS32-RE]	Version 2.5.0.6	Tonscend
TS+ -[JS32-CE]	Version 2.5.0.0	Tonscend



5. Test Equipments Utilized

Description	Model	Serial No.	Manufacturer	Cal. Date	Due. Date
Bi-Log Antenna	VULB 9163	9163-519	SCHWARZBECK	2024/6/22	2025/6/21
Horn Antenna	BBHA 9120D	01774	SCHWARZBECK	2024/6/22	2025/6/21
Horn Antenna	BBHA9170 #773	BBHA9170 #773	SCHWARZBECK	2024/6/22	2025/6/21
Receiver	N9038A	MY564000 93	KEYSIGHT	2025/1/6	2026/1/5
Preamplifier	S020180L3203	61171/611 72	LUCIX CORP.	2025/5/13	2026/5/12
Preamplifier	S10M100L3802	46732	LUCIX CORP.	2025/5/13	2026/5/12
Preamplifier	DCLNA0118-40 C-S	DS77209	Decentest	2025/5/13	2026/5/12
RF Coaxial Cable	PE330	MRE001	Pasternack	N/A	N/A
RF Coaxial Cable	CLU18	MRE002	Pasternack	N/A	N/A
RF Coaxial Cable	CLU18	MRE003	Pasternack	N/A	N/A
RF Coaxial Cable	N/A	EMC-CE-0 0514	N/A	N/A	N/A
Receiver	ESPI	101052	R&S	2025/5/15	2026/5/14
LISN	ENV 216	103131	R&S	2025/3/20	2026/3/19
System Simulator	CMW500	152038	R&S	2024/9/11	2025/9/10

6. Ancillary Equipment Utilized

Description	Model	Serial No.	Manufacturer
PC	A1370	N/A	APPLE
PC	P144G	20210357	DELL
PC Adapter	HA65NM190	N/A	DELL
Earphone	N/A	N/A	OPPO

———— END OF REPORT ————