



TEST REPORT

APPLICANT : Realme Chongqing Mobile
Telecommunications Corp., Ltd.

PRODUCT NAME : Mobile Phone

MODEL NAME : RMX3503

BRAND NAME : realme

FCC ID : 2AUYFRMX3503

STANDARD(S) : 47 CFR Part 15 Subpart B

RECEIPT DATE : 2021-12-13

TEST DATE : 2022-01-05 to 2022-01-07

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MORLAB

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Change History		
Version	Date	Reason for Change
1.0	2022-01-25	First edition



1. Technical Information

Note: Provide by applicant

1.1. Applicant and Manufacturer Information

Applicant:	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Applicant Address:	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China
Manufacturer:	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Manufacturer Address:	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

1.2. Equipment Under Test (EUT) Description

Product Name:	Mobile Phone
EUT No.:	5#
Hardware Version:	11
Software Version:	Android 11
Tx Frequency:	GSM 850: 824 MHz ~ 849 MHz GSM 1900: 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 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 40: 2300 MHz ~ 2400 MHz LTE Band 41: 2535 MHz ~ 2655 MHz LTE Band 66: 1710 MHz ~ 1780 MHz Bluetooth: 2402 MHz ~ 2480 MHz 802.11b/g/n-20: 2412 MHz ~ 2462 MHz
Rx Frequency:	GSM 850: 869MHz ~ 894 MHz GSM 1900: 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 7: 2620 MHz ~ 2690 MHz LTE Band 12: 729 MHz ~ 746 MHz LTE Band 17: 734 MHz ~ 746 MHz LTE Band 26: 859 MHz ~ 894 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 40: 2300 MHz ~ 2400 MHz LTE Band 41: 2535 MHz ~ 2655 MHz LTE Band 66: 2110 MHz ~ 2200 MHz Bluetooth: 2402 MHz ~ 2480 MHz 802.11b/g/n-20: 2412 MHz ~ 2462 MHz GPS/GLONASS/BeiDou/SBAS: 1559 MHz ~ 1610 MHz
Ancillary Equipment:	AC Adapter 1 Brand Name: realme Model No.: OP52JAUH Serial No.: (N/A, marked #1 by test site) Rated Input: 100-240V~50/60Hz, 0.4A Rated Output: 5V=2A Manufacturer: Ten Pao Industrial Co., Ltd. AC Adapter 2 Brand Name: realme Model No.: OP52YAUH Serial No.: (N/A, marked #1 by test site) Rated Input: 100-240V~50/60Hz, 0.4A Rated Output: 5V=2A Manufacturer: Jiangsu Chenyang Electron Co., Ltd. AC Adapter 3 Brand Name: realme Model No.: OP52CAEH Serial No.: (N/A, marked #1 by test site) Rated Input: 100-240V~50/60Hz, 0.4A Rated Output: 5V=2A Manufacturer: Dongguan YOHOO Electronic Technology Co., Ltd. AC Adapter 4



Brand Name:	realme
Model No.:	OP52JAEH
Serial No.:	(N/A, marked #1 by test site)
Rated Input:	100-240V~50/60Hz, 0.4A
Rated Output:	5V=2A
Manufacturer:	Ten Pao Industrial Co., Ltd.
AC Adapter 5	
Brand Name:	realme
Model No.:	OP52YAEH
Serial No.:	(N/A, marked #1 by test site)
Rated Input:	100-240V~50/60Hz, 0.4A
Rated Output:	5V=2A
Manufacturer:	Jiangsu Chenyang Electron Co., Ltd.
AC Adapter 6	
Brand Name:	realme
Model No.:	OP52CAED
Serial No.:	(N/A, marked #1 by test site)
Rated Input:	100-240V~50/60Hz, 0.4A
Rated Output:	5V=2A
Manufacturer:	Dongguan YOHOO Electronic Technology Co., Ltd.
Battery 1	
Brand Name:	realme
Model No.:	BLP877
Serial No.:	(N/A, marked #1 by test site)
Capacity:	Typical: 5000mAh, Rated: 4890mAh
Rated Voltage:	3.87V
Charge Limit:	4.45V
Manufacturer:	Huizhou Desay Battery Co., Ltd
Battery 2	
Brand Name:	realme
Model No.:	BLP877
Serial No.:	(N/A, marked #1 by test site)
Capacity:	Typical: 5000mAh, Rated: 4890mAh
Rated Voltage:	3.87V
Charge Limit:	4.45V



	Manufacturer: Dongguan NVT Technology Co., Ltd.
Battery 3	
Brand Name:	realme
Model No.:	BLP877
Serial No.:	(N/A, marked #1 by test site)
Capacity:	Typical: 5000mAh, Rated: 4890mAh
Rated Voltage:	3.87V
Charge Limit:	4.45V
Manufacturer:	TWS Technology (Guangzhou) Limited
USB Cable	
Model:	DL122
Manufacturer:	N/A
Earphone	
Model:	MH156
Manufacturer:	N/A

Note:

1. This test report is variant from the original report (Report No.: SZ21110310E01, Model: RMX3501,FCC ID: 2AUYFRMX3501) based on the similarity between before,only different in the model name, the other are the same as before. We evaluated the above changes, which had no impact on the test results. The test results in this report still refer to the test results of the original test report.
2. For a more detailed description, please refer to specification or user's manual supplied by the applicant and/or manufacturer.



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	Method Determination Remark
1	15.107	Conducted Emission	2022.01.07	Yang Lian	PASS ^{Note 3}	No deviation
2	15.109	Radiated Emission	2022.01.05	Wu Zhaoling	PASS ^{Note 3}	No deviation

Note 1: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 2: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.

Note 3: The test results of these test items in this report refer to the test report (Report No.: SZ21110310E01).



2.2. EUT Setup and Operating Conditions

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

Test Item	
Radiated Emission	
Mode 1 :	GSMSidle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card+ GPS Rx
Mode 2 :	WCDMA Band Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card +GLONASS Rx
Mode 3 :	LTE Band Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card + Beidou Rx
Mode 4 :	GSMSidle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card+ SBAS Rx
Mode 5 :	WCDMA Band Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + Earphone + SIM Card +PC+PC Adapter(data transmission)
Mode 6 :	LTE Band Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card +Rear camera mode
Conducted Emission	
Mode 1 :	GSMSidle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card+ GPS Rx
Mode 2 :	WCDMA Band Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card +GLONASS Rx
Mode 3 :	LTE Band Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card + Beidou Rx
Mode 4 :	GSMSidle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card+ SBAS Rx
Mode 5 :	WCDMA Band Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + Earphone + SIM Card +PC+PC Adapter(data transmission)
Mode 6 :	LTE Band Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card +Rear camera mode
Remark:	
The above test mode in boldface (Mode 6) was the worst case of conducted emission test, only the test data of these modes were reported. The above test mode in boldface (Mode 6) was the worst case of radiated emission test, only the test data of these modes were reported.	

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



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

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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).

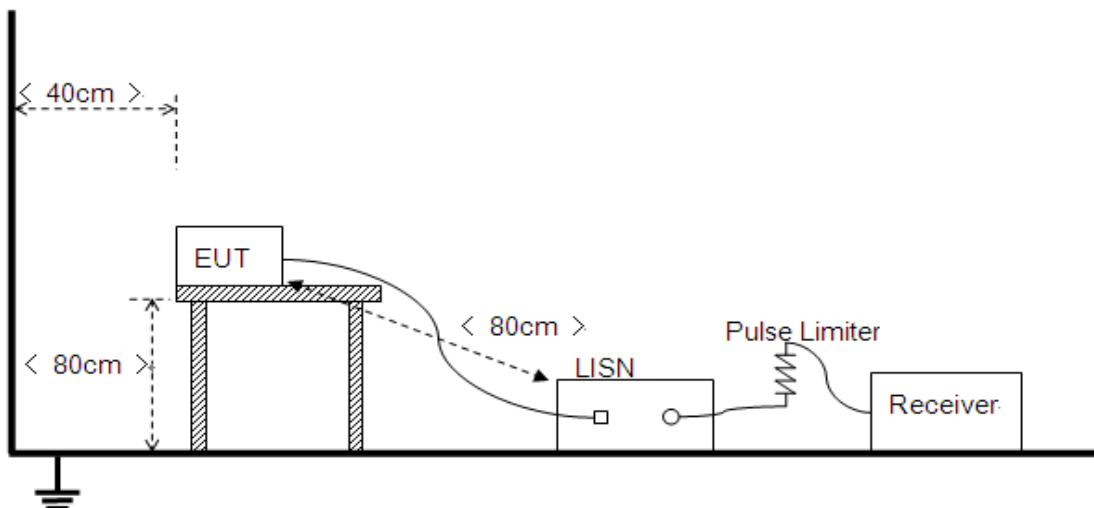
Frequency Range (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

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.



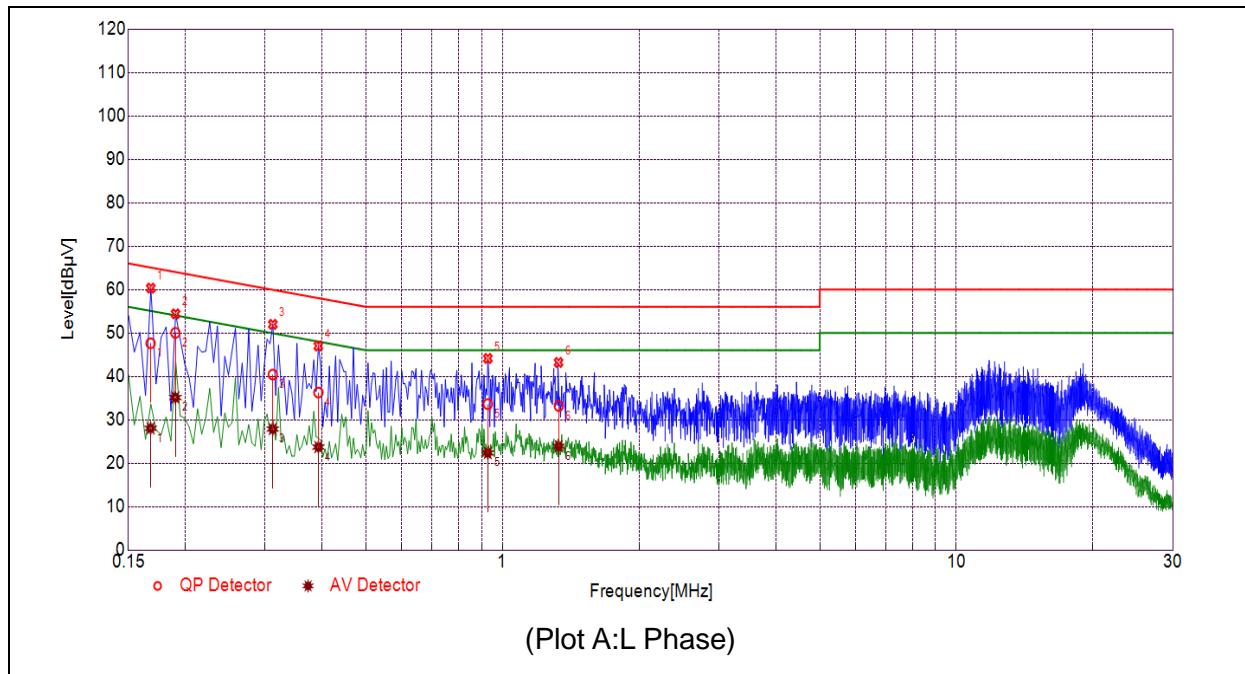


The EUT is placed on a 0.8m high insulating table, which stands on the grounded conducting floor, and keeps 0.4m away from the grounded conducting wall. The EUT is connected to the power mains through a LISN which provides $50\Omega/50\mu\text{H}$ of coupling impedance for the measuring instrument. A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

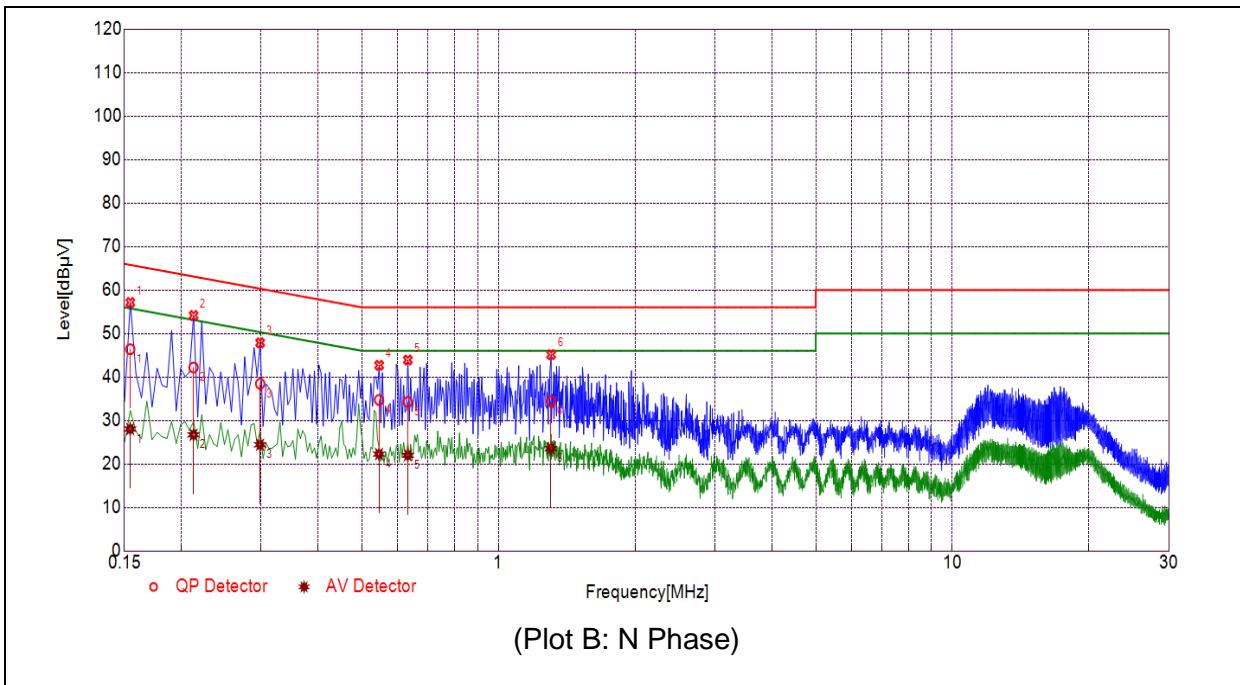
The power strip or extension cord has been investigated to make sure that the LISN integrity is maintained with respect to the impedance characteristics as prescribed in ANSI C63.4-2014 at Clause 4.3.

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.

A. Test Plot and Suspicious Points:


NO.	Fre. (MHz)	Emission Level (dB μ V)		Limit (dB μ V)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1678	47.61	28.01	65.07	55.07	Line	PASS
2	0.1903	50.02	35.11	64.02	54.02		PASS
3	0.3118	40.40	27.84	59.92	49.92		PASS
4	0.3930	36.26	23.70	58.00	48.00		PASS
5	0.9283	33.60	22.34	56.00	46.00		PASS
6	1.3302	33.17	23.89	56.00	46.00		PASS



NO.	Fre. (MHz)	Emission Level (dB μ V)		Limit (dB μ V)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1544	46.38	28.02	65.76	55.76	Neutral	PASS
2	0.2129	42.17	26.68	63.09	53.09		PASS
3	0.2984	38.44	24.40	60.29	50.29		PASS
4	0.5455	34.71	22.26	56.00	46.00		PASS
5	0.6314	34.24	21.98	56.00	46.00		PASS
6	1.3052	34.43	23.54	56.00	46.00		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).

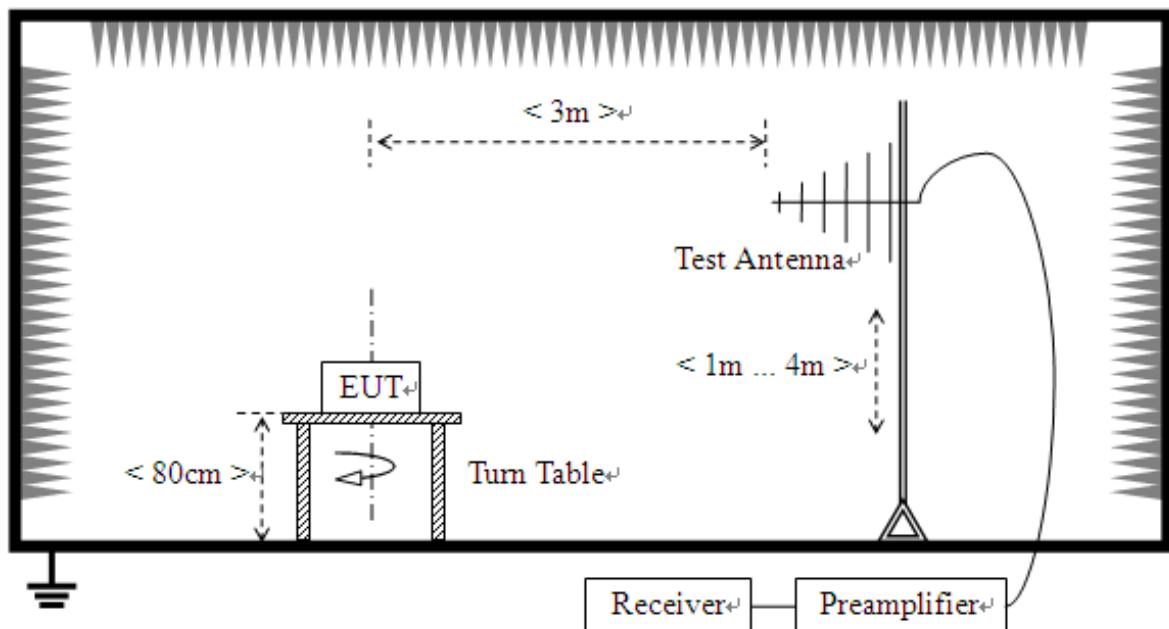
3.2.2. Frequency Range of Measurement

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

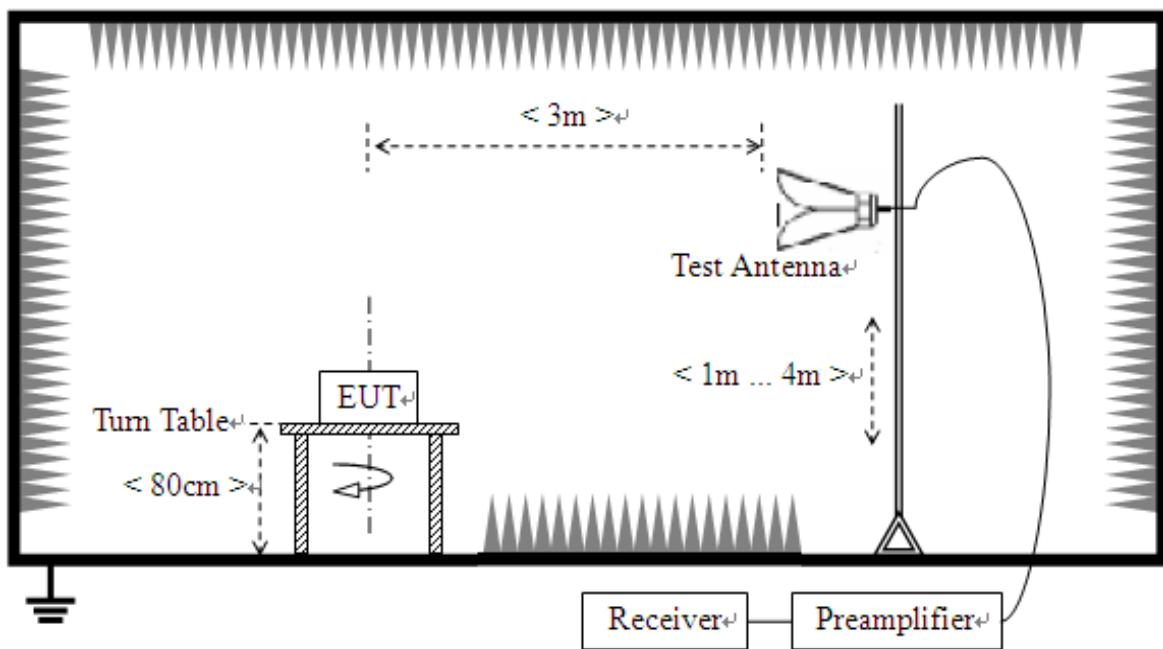
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30.
1.705–108	1000.
108–500	2000.
500–1000	5000.
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

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 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.

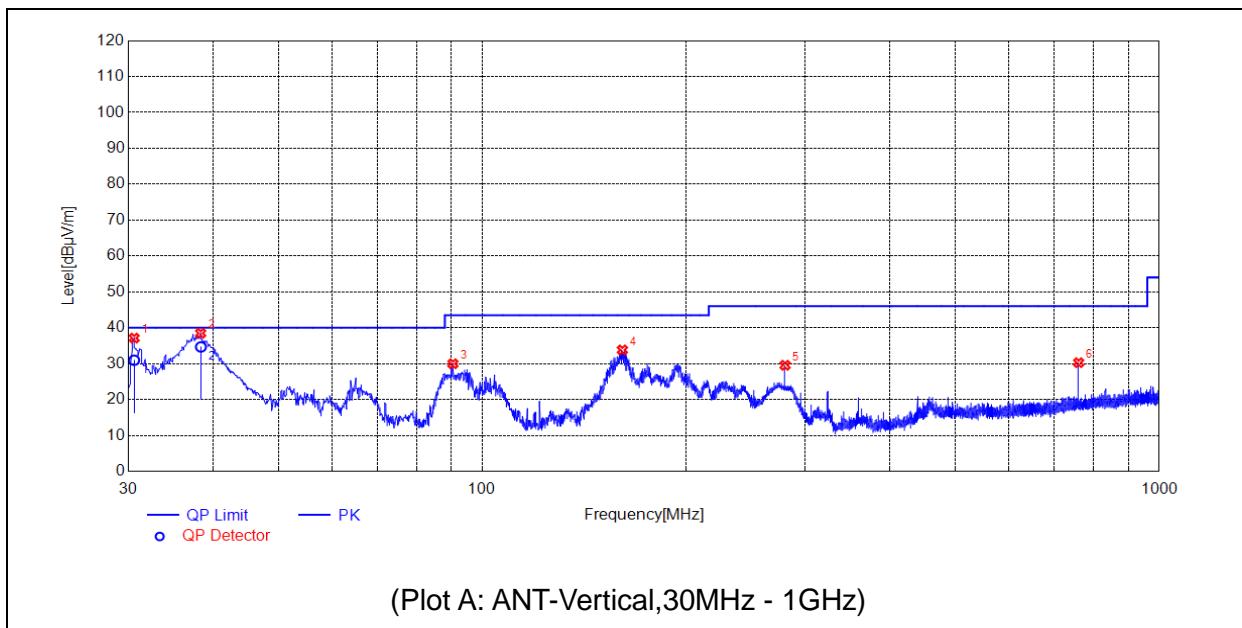
For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video bandwidth is set to 3MHz for peak measurements and as applicable for average measurements.

3.2.4. Test Result

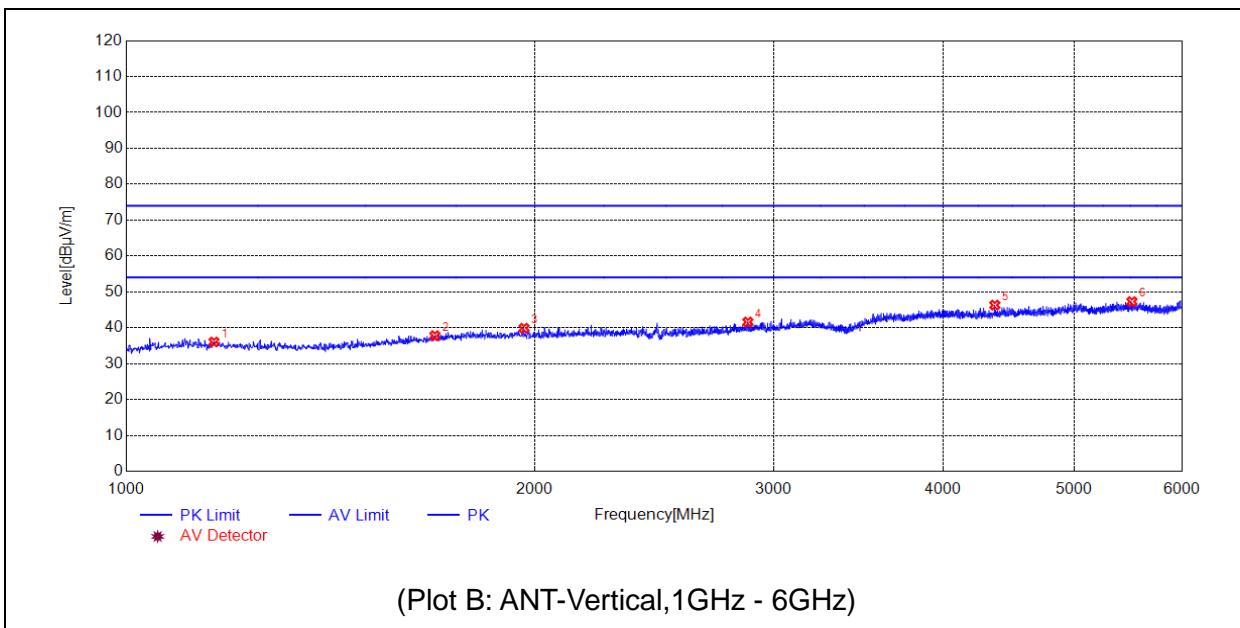
The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors. Both the vertical and the horizontal polarizations of the Test Antenna are considered to perform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

The amplitude of emissions which (6GHz-13.5GHz) are attenuated more than 20 dB below the permissible value need not be reported.

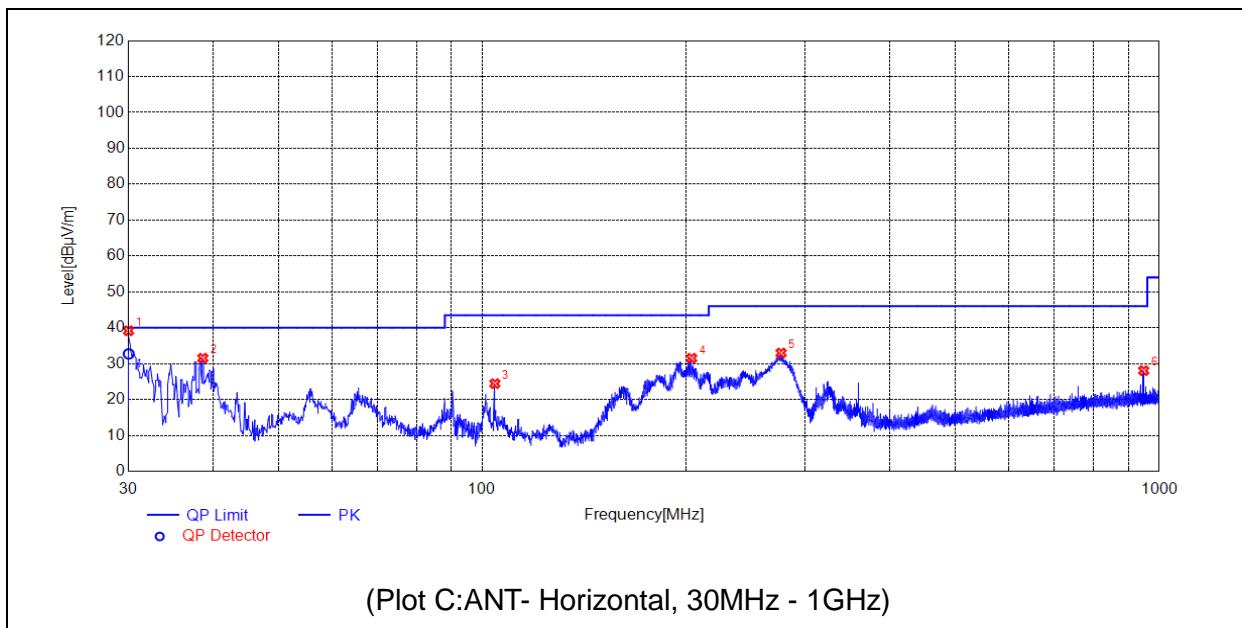
Note: All radiated emission tests were performed in X, Y, Z axis direction, and only the worst axis test condition was recorded in this test report.



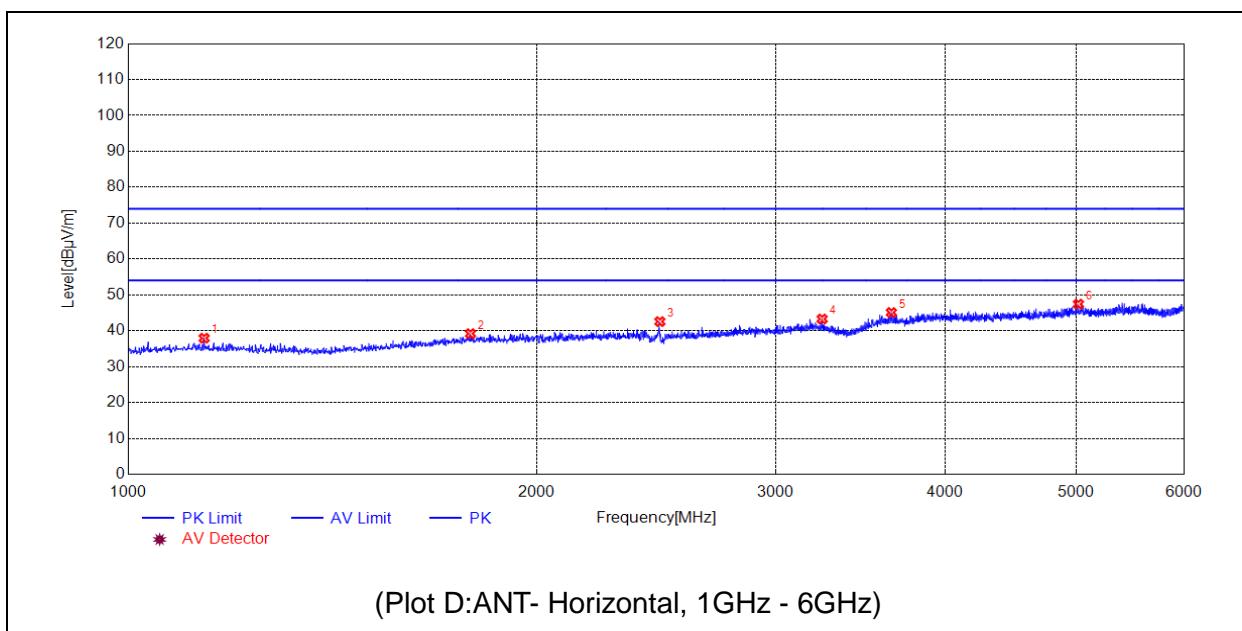
No.	Fre. MHz	PK dB μ V/m	QP dB μ V/m	AV dB μ V/m	Limit-PK dB μ V/m	Limit-QP dB μ V/m	Limit-AV dB μ V/m	ANT	Verdict
1	30.5821	37.13	30.96	N.A	N.A	40.00	N.A	V	PASS
2	38.3428	38.47	34.67	N.A	N.A	40.00	N.A	V	PASS
3	90.4370	29.98	N.A	N.A	N.A	43.50	N.A	V	PASS
4	160.9631	33.82	N.A	N.A	N.A	43.50	N.A	V	PASS
5	279.9940	29.55	N.A	N.A	N.A	46.00	N.A	V	PASS
6	759.9980	30.27	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	1160.0320	36.05	N.A	N.A	74.00	N.A	54.00	V	PASS
2	1688.1376	37.79	N.A	N.A	74.00	N.A	54.00	V	PASS
3	1964.1928	39.87	N.A	N.A	74.00	N.A	54.00	V	PASS
4	2872.3745	41.60	N.A	N.A	74.00	N.A	54.00	V	PASS
5	4368.6737	46.31	N.A	N.A	74.00	N.A	54.00	V	PASS
6	5513.9028	47.29	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	30.0000	39.16	32.72	N.A	N.A	40.00	N.A	H	PASS
2	38.6339	31.54	N.A	N.A	N.A	40.00	N.A	H	PASS
3	104.3094	24.44	N.A	N.A	N.A	43.50	N.A	H	PASS
4	203.7444	31.51	N.A	N.A	N.A	43.50	N.A	H	PASS
5	276.2106	32.98	N.A	N.A	N.A	46.00	N.A	H	PASS
6	948.3908	28.06	N.A	N.A	N.A	46.00	N.A	H	PASS



(Plot D:ANT- Horizontal, 1GHz - 6GHz)

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	1137.0274	37.93	N.A	N.A	74.00	N.A	54.00	H	PASS
2	1787.1574	39.20	N.A	N.A	74.00	N.A	54.00	H	PASS
3	2465.2931	42.56	N.A	N.A	74.00	N.A	54.00	H	PASS
4	3247.4495	43.28	N.A	N.A	74.00	N.A	54.00	H	PASS
5	3652.5305	45.08	N.A	N.A	74.00	N.A	54.00	H	PASS
6	5017.8036	47.42	N.A	N.A	74.00	N.A	54.00	H	PASS



Annex B 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	$\pm 3.3\text{dB}$
	150kHz-30MHz	$\pm 2.8\text{dB}$

Uncertainty of Radiated Emission Measurement

Measuring Uncertainty for a Level of Confidence of 95%($U=2U_c(y)$)	30MHz-200MHz	$\pm 5.06\text{dB}$
	200MHz-1000MHz	$\pm 5.04\text{dB}$
	1GHz-6GHz	$\pm 5.18\text{dB}$
	6GHz-18GHz	$\pm 5.48\text{dB}$



Annex C 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]	Version2.5.0.0	Tonscend



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5. Test Equipments Utilized

Description	Model	Serial No.	Manufacturer	Cal. Date	Due. Date
Bi-Log Antenna	VULB 9163	9163-519	SCHWARZBECK	2019/5/24	2022/5/23
Horn Antenna	BBHA 9120D	01774	SCHWARZBECK	2019/7/26	2022/7/25
Receiver	N9038A	MY56400093	KEYSIGHT	2021/3/9	2022/3/8
Signal Analyzer	N9020A	MY56060145	Agilent	2021/7/26	2022/7/25
6db Attenuator	BW-N6W5+	E191001	Mini-circuits	2021/10/18	2022/10/17
Preamplifier	S020180L3203	61171/61172	LUCIX CORP.	2021/7/16	2022/7/15
Preamplifier	S10M100L3802	46732	LUCIX CORP.	2021/7/16	2022/7/15
Receiver	ESPI	101052	R&S	2021/7/16	2022/7/15
LISN	NSLK 8127	8127449	Schwarzbeck	2021/3/9	2022/3/8
10dB Pulse Limiter	VTSD 9561-F	VTSD 9561 F-B #206	SCHWARZBECK	2021/7/21	2022/7/20

5. Ancillary Equipment Utilized

Description	Manufacturer	Model	Serial No.
PC	DELL	VOSTRO 5370	DF2DR A01 DPC
PC Adapter	DELL	LA45NM140	OKXTTW

— END OF REPORT —