TEST REPORT

APPLICANT	:	Realme Chongqing Mobile Telecommunications Corp., Ltd.
PRODUCT NAME	:	Mobile Phone
MODEL NAME	:	RMX3363
BRAND NAME	:	realme
FCC ID	:	2AUYFRMX3363
STANDARD(S)	:	47 CFR Part 15 Subpart B
RECEIPT DATE	:	2021-05-19
TEST DATE	:	2021-05-27
ISSUE DATE	:	2021-07-22

Edited by: He sinuo

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DIRECTORY

Change History		
Version	Date	Reason for Change
1.0	2021-07-22	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.:	1#
Hardware Version:	11
Software Version:	realme UI V2.0
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 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 26: 814MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 66: 1710 MHz ~ 1780 MHz 5G NR n5:824 MHz ~ 849 MHz 5G NR n7:2500 MHz ~ 2570 MHz 5G NR n38:2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n66:1710 MHz ~ 1780 MHz Bluetooth 5.2: 2402 MHz ~ 2480 MHz

	802.11b/g/n/ax/ac: 2412 MHz ~ 2462 MHz 802.11a/ac/n/ax: 5180 MHz ~ 5240 MHz;5260 MHz ~ 5320MHz; 5500 MHz ~ 5700 MHz;5745 MHz ~ 5825 MHz NFC: 13.56 MHz	
Rx Frequency:	GSM850: 869 MHz ~ 894 MHz GSM1900: 1930 MHz ~ 1990 MHz WCDMA Band II: 1930 MHz ~ 1990 MHz WCDMA BandIV: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: 859MHz ~ 894 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 66: 2110 MHz ~ 2180 MHz 5G NR n5: 869 MHz ~ 894 MHz 5G NR n7: 2620 MHz ~ 2690 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n66: 2110 MHz ~ 2180 MHz Bluetooth 5.2: 2402 MHz ~ 2480 MHz 802.11b/g/n/ax/ac: 2412 MHz ~ 2462 MHz 802.11a/ac/n/ax: 5180 MHz ~ 5240 MHz;5260 MHz ~ 5320MHz; 5500 MHz ~ 5700 MHz;5745MHz ~ 5825MHz GPS/GLONASS/BDS/Galileo:1559 MHz ~ 1610MHz; NFC: 13.56 MHz	
	AC Adapter 1	
	Brand Name:	realme
	Model No.:	VCA7JAUH
	Serial No.:	(N/A, marked #1 by test site)
	Rated Input:	100-130V~ 50/60Hz,1.8A
	Rated Output:	5V⎓2A, 10V⎓5A
	Rated Input:	200-240V~ 50/60Hz,1.8A
	Rated Output:	5V⎓2A ,10V⎓6.5A
	Manufacturer:	HUIZHOU GOLDEN LAKE INDUSTRIAL CO., LTD

	AC Adapter2	
	Brand Name:	realme
	Model No.:	VCA7JDUH
	Serial No.:	(N/A, marked #1 by test site)
	Rated Input:	100-130V~ 50/60Hz,1.8A
	Rated Output:	5V⎓2A, 10V⎓5A
	Rated Input:	200-240V~ 50/60Hz,1.8A
	Rated Output:	5V⎓2A ,10V⎓6.5A
	Manufacturer:	HUIZHOU GOLDEN LAKE INDUSTRIAL CO., LTD
	AC Adapter3	
	Brand Name:	realme
	Model No.:	VCA7HAUH
	Serial No.:	(N/A, marked #1 by test site)
	Rated Input:	100-130V~ 50/60Hz,1.8A
	Rated Output:	5V⎓2A, 10V⎓5A
	Rated Input:	200-240V~ 50/60Hz,1.8A
	Rated Output:	5V⎓2A ,10V⎓6.5A
	Manufacturer:	SHENZHEN HUNTKEY ELECTRIC CO., LTD.
	Battery	
	Brand Name:	realme
	Model No.:	BLP809
	Serial No.:	(N/A, marked #1 by test site)
	Capacity:	Typical: 2150mAh, Rated: 2100mAh
	Rated Voltage:	7.74V
	Charge Limit:	8.9V
	Manufacturer:	SUNWODA Electronic Co., Ltd.
	USB Cable	
	Model No.:	DL129
	Earphone	
	Model No.:	MH156

Note:

1. There are three kinds of adapters, all adapters have been tested, For the CE and RE, only the worst case (Adapter 3) is recorded in this 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	2021.05.27	Wu Runfeng	PASS	No deviation
2	15.109	Radiated Emission	2021.05.27	Lin Jiayong	PASS	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 3: When the test result is a critical value,we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.

2.2. EUT Setup and Operating Conditions

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

Test Modes	
Mode 1 :	GSM850Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card
Mode 2 :	GSM1900 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card
Mode 3 :	WCDMA Band II Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card
Mode 4 :	WCDMA Band IV Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card
Mode 5 :	WCDMA Band V Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card
Mode 6 :	LTE Band 2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card
Mode 7 :	LTE Band 4 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card
Mode 8 :	LTE Band 5 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card
Mode 9 :	LTE Band 12Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card
Mode 10 :	LTE Band 7Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card
Mode 11 :	LTE Band 17Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card + Galileo Rx
Mode 12 :	LTE Band 26Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card + BDS Rx
Mode 13 :	LTE Band 38 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card + NFC
Mode 14 :	LTE Band 41 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card + GPS Rx
Mode 15 :	LTE Band 66 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card + GLONASS Rx
Mode 16 :	**LTE Band 41 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card + Camera**
Mode 17 :	SA_n5 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card + MP4

Mode 18 :	SA_n7 Idle + Bluetooth Idle + 5G WLAN Idle+ PC(data transfer) + Battery + Earphone + USB Cable + SIM Card + PC Adapter
Mode 19 :	SA_n38 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card + MP4
Mode 20 :	SA_n41 Idle + Bluetooth Idle + 5G WLAN Idle+ Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card
Mode 21 :	SA_n66 Idle + Bluetooth Idle + 5G WLAN Idle+ Battery + USB Cable(Charging from Adapter) + Earphone + Adapter + SIM Card
Remark: The above test mode in boldface (Mode 16) was the worst case of conducted emission and radiated emission test, only the test data of these modes were 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 50μH/50Ω line impedance stabilization network (LISN).

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

NOTE:

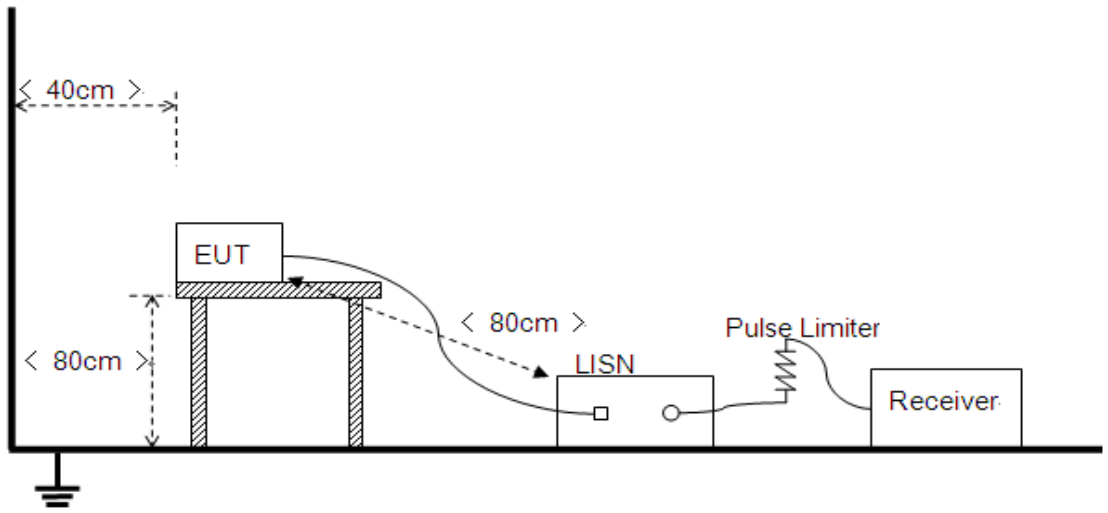
a) The limit subjects to the Class B digital device.

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.



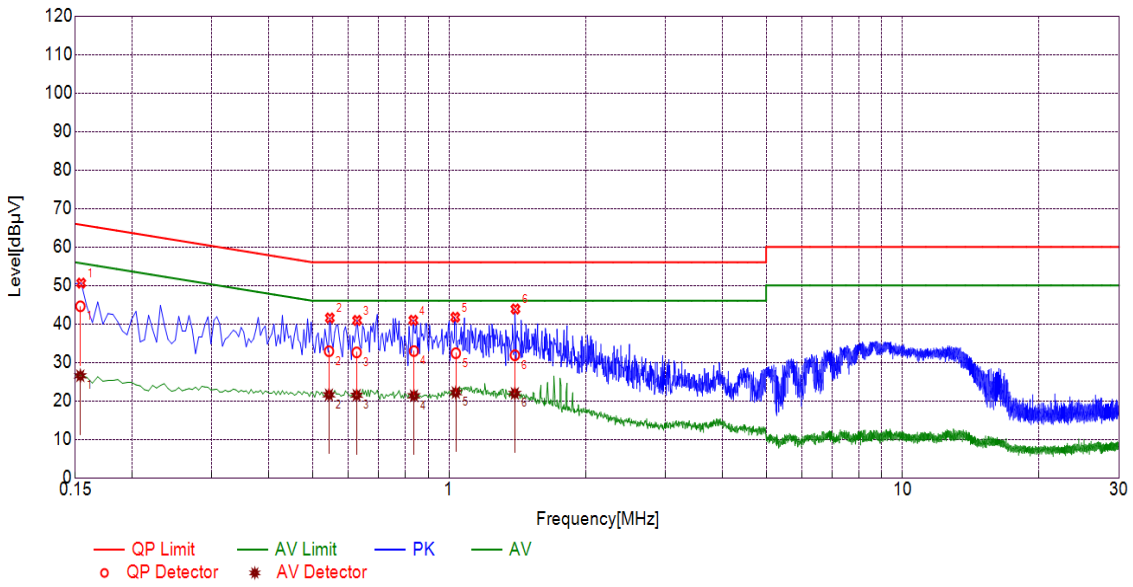
The EUT is placed on a 0.8m high insulating table, which stands on the grounded conducting floor, and keeps 0.4m away from the grounded conducting wall. The EUT is connected to the power mains through a LISN which provides 50Ω/50μH of coupling impedance for the measuring instrument. A Pulse Limiter is 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 inma intained with respect to the impedance characteristics as prescribed in ANSI C63.4-2014 at Clause 4.3.

3.1.3. Test Result

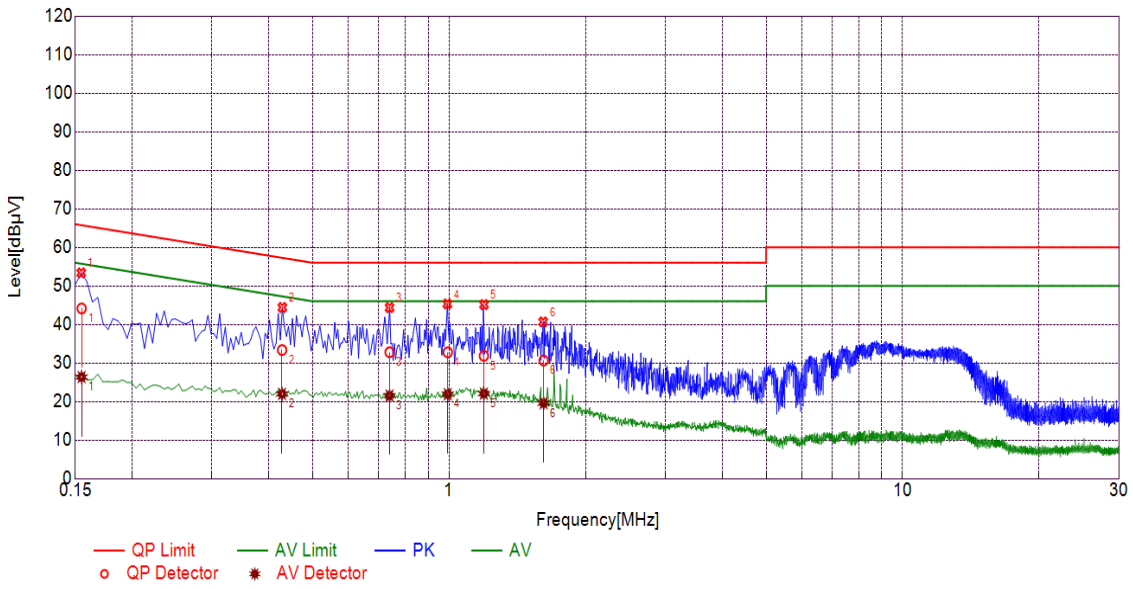
Set RBW=9 kHz, VBW=30 kHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both 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:



(Plot A:L Phase)

NO.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1538	44.58	26.52	65.79	55.79	Line	PASS
2	0.5435	32.90	21.58	56.00	46.00		PASS
3	0.6255	32.59	21.47	56.00	46.00		PASS
4	0.8365	32.94	21.32	56.00	46.00		PASS
5	1.0347	32.39	22.15	56.00	46.00		PASS
6	1.3965	31.84	21.93	56.00	46.00		PASS



(Plot B: N Phase)

NO.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1548	44.15	26.36	65.74	55.74	Neutral	PASS
2	0.4283	33.36	21.98	57.29	47.29		PASS
3	0.7392	32.80	21.54	56.00	46.00		PASS
4	0.9932	32.78	21.90	56.00	46.00		PASS
5	1.1930	31.86	22.05	56.00	46.00		PASS
6	1.6164	30.62	19.58	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	
	(μV/m)	(dBμV/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 dBμV/m is calculated by 20log Emission Level(μV/m).

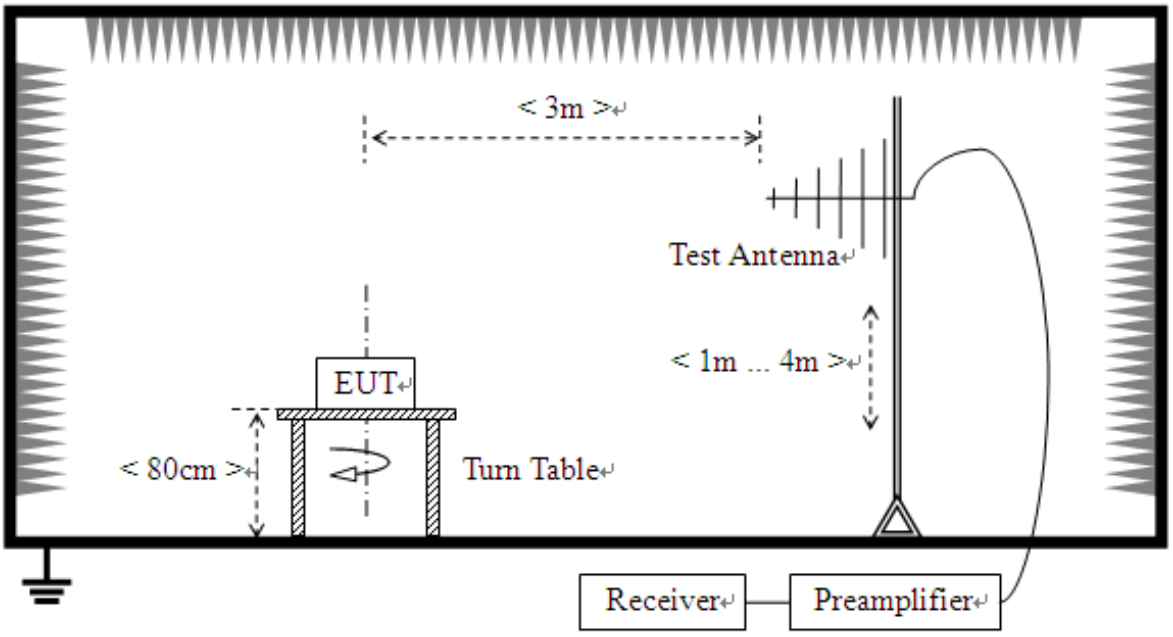
3.2.2. Frequency Range of Measurement

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

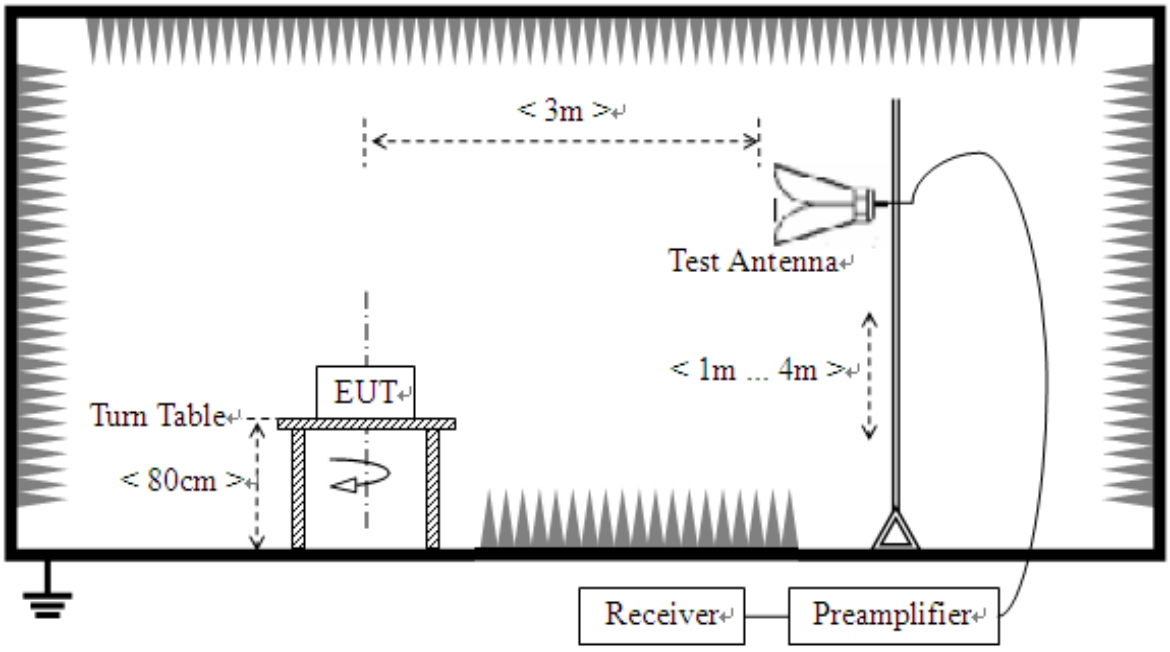
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30.
1.705–108	1000.
108–500	2000.
500–1000	5000.
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

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.

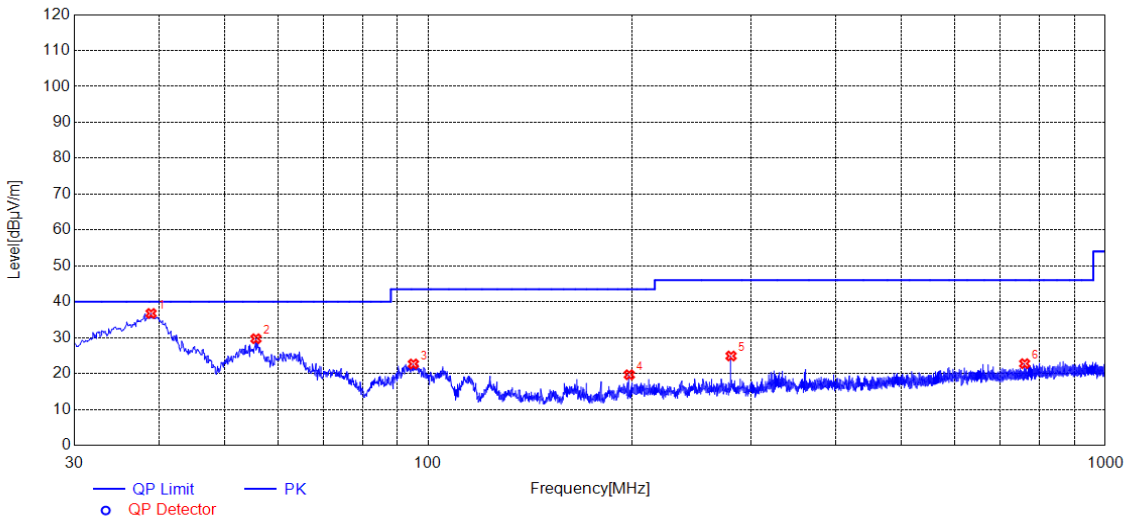
For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video bandwidth is set to 3MHz for peak measurements and as applicable for average measurements.

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.

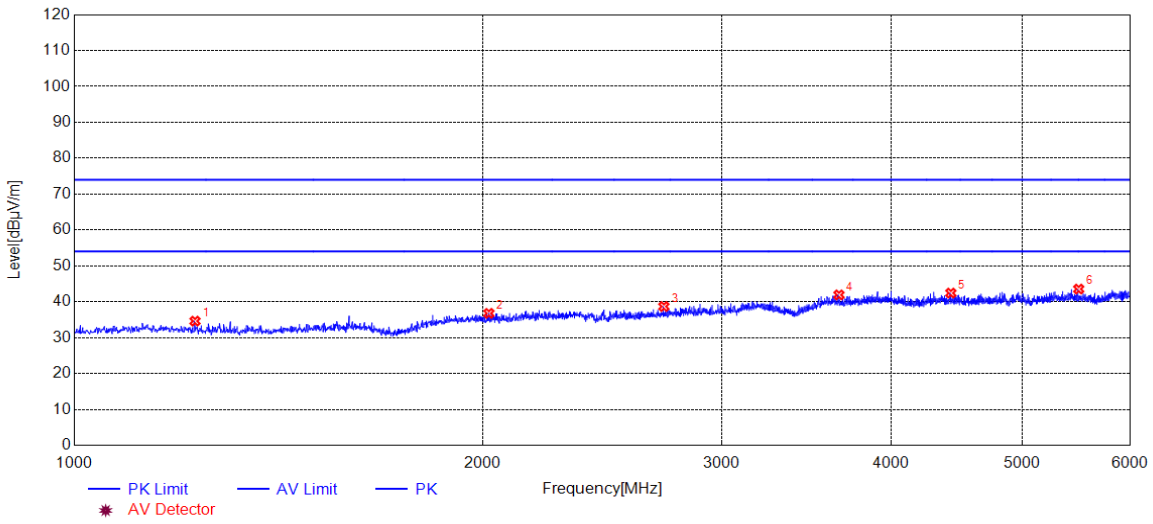
The amplitude of emissions which (6GHz-30GHz) are attenuated more than 20 dB below the permissible value need not be reported.

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.



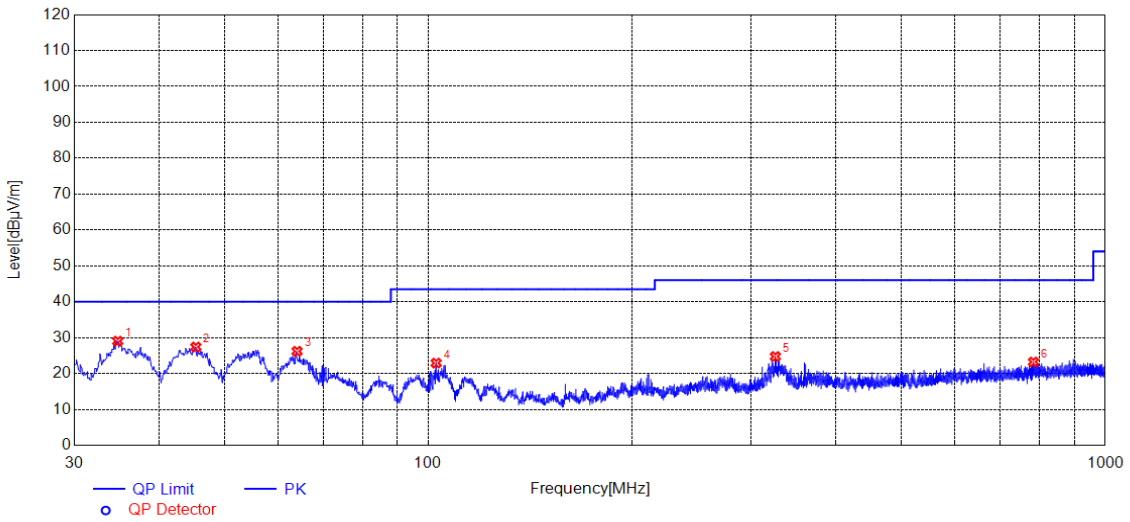
(Plot A: ANT-Vertical,30MHz - 1GHz)

No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	38.9249	36.75	N.A	N.A	N.A	40.00	N.A	V	PASS
2	55.6106	29.70	N.A	N.A	N.A	40.00	N.A	V	PASS
3	94.9965	22.67	N.A	N.A	N.A	43.50	N.A	V	PASS
4	198.0208	19.66	N.A	N.A	N.A	43.50	N.A	V	PASS
5	279.9940	24.89	N.A	N.A	N.A	46.00	N.A	V	PASS
6	759.9980	22.77	N.A	N.A	N.A	46.00	N.A	V	PASS



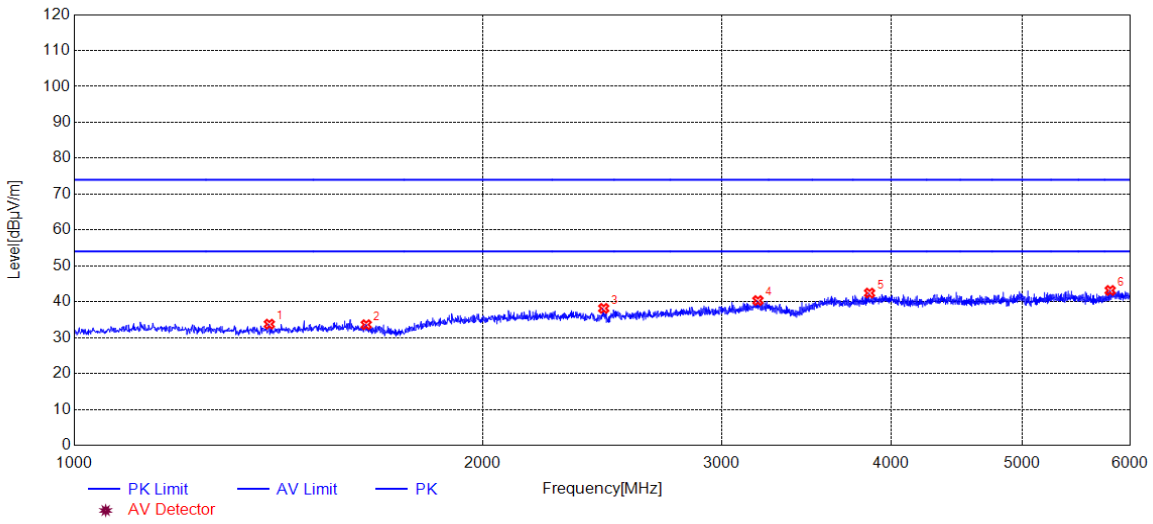
(Plot B: ANT-Vertical,1GHz - 6GHz)

No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	1227.0454	34.61	N.A	N.A	74.00	N.A	54.00	V	PASS
2	2021.2042	36.77	N.A	N.A	74.00	N.A	54.00	V	PASS
3	2720.3441	38.68	N.A	N.A	74.00	N.A	54.00	V	PASS
4	3662.5325	41.91	N.A	N.A	74.00	N.A	54.00	V	PASS
5	4428.6857	42.42	N.A	N.A	74.00	N.A	54.00	V	PASS
6	5502.9006	43.54	N.A	N.A	74.00	N.A	54.00	V	PASS



(Plot C:ANT- Horizontal, 30MHz - 1GHz)

No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	34.7535	29.03	N.A	N.A	N.A	40.00	N.A	H	PASS
2	45.3275	27.40	N.A	N.A	N.A	40.00	N.A	H	PASS
3	63.9534	26.21	N.A	N.A	N.A	40.00	N.A	H	PASS
4	102.6603	22.92	N.A	N.A	N.A	43.50	N.A	H	PASS
5	325.4915	24.75	N.A	N.A	N.A	46.00	N.A	H	PASS
6	783.0863	23.23	N.A	N.A	N.A	46.00	N.A	H	PASS



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

No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	1392.0784	33.76	N.A	N.A	74.00	N.A	54.00	H	PASS
2	1641.1282	33.61	N.A	N.A	74.00	N.A	54.00	H	PASS
3	2456.2913	38.16	N.A	N.A	74.00	N.A	54.00	H	PASS
4	3191.4383	40.33	N.A	N.A	74.00	N.A	54.00	H	PASS
5	3857.5715	42.42	N.A	N.A	74.00	N.A	54.00	H	PASS
6	5804.9610	43.15	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=2Uc(y))	9kHz-150kHz	±3.3dB
	150kHz-30MHz	±2.8dB

Uncertainty of Radiated Emission Measurement

Measuring Uncertainty for a Level of Confidence of 95%(U=2Uc(y))	30MHz-200MHz	±5.06dB
	200MHz-1000MHz	±5.04dB
	1GHz-6GHz	±5.18dB
	6GHz-18GHz	±5.48dB

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.)

4. Test Software Utilized

Model	Version Number	Producer
JS32-RE	Version 2.0.2.0	Tonscend
TS+ -[JS32-CE]	Version2.5.0.0	Tonscend

5. Test Equipments Utilized

Description	Model	Serial No.	Manufacturer	Cal. Date	Due. Date
Bi-Log Antenna	VULB 9163	9163-519	SCHWARZBECK	2019/5/24	2022/5/23
Horn Antenna	BBHA 9120D	01774	SCHWARZBECK	2019/7/26	2022/7/25
Horn Antenna	BBHA 9170	BBHA 9170#773	SCHWARZBECK	2019/7/26	2022/7/25
Receiver	N9038A	MY56400093	KEYSIGHT	2021/3/9	2022/3/8
Signal Analyzer	N9020A	MY56060145	Agilent	2020/8/24	2021/8/23
6db Attenuator	BW-N6W5+	E191001	Mini-circuits	2020/10/20	2021/10/19
Preamplifier	S020180L3203	61171/61172	LUCIX CORP.	2020/7/21	2021/7/20
Preamplifier	S10M100L3802	46732	LUCIX CORP.	2020/7/21	2021/7/20
Receiver	ESPI	101052	R&S	2020/7/21	2021/7/20
LISN	NSLK 8127	8127449	Schwarzbeck	2021/3/9	2022/3/8
10dB Pulse Limiter	VTSD 9561-F	VTSD 9561 F-B #206	SCHWARZBECK	2020/7/24	2021/7/23

5. Ancillary Equipment Utilized

Description	Manufacturer	Model	Serial No.
PC	DELL	VOSTRO 5370	DF2DR A01 DPC
PC Adapter	DELL	LA45NM140	OKXTTW
Earphone	VIVO	N/A	N/A

END OF REPORT