



TEST REPORT

_	Realme Chongqing Mobile
APPLICANT	

- Telecommunications Corp., Ltd.
- PRODUCT NAME : Mobile Phone
- MODEL NAME : RMX3201
- **BRAND NAME** : realme
- FCC ID : 2AUYFRMX3201
- STANDARD(S) : 47 CFR Part 15 Subpart C
- **RECEIPT DATE** : 2021-02-02
- **TEST DATE** : 2021-03-11 to 2021-03-15
- **ISSUE DATE** : 2021-03-16

Edited by:

Leng Maar

Approved by:

Peng Huarui (Supervisor)

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Change History			
Version Date Reason for change			
1.0	2021-03-16	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,	
Applicant Address.	China	
Manufacturer: Realme Chongqing Mobile Telecommunications Corp., Ltd.		
Monufacturer Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing,	
Manufacturer Address:	China	

1.2. Equipment Under Test (EUT) Description

Product Name:	Mobile Phone			
Serial No.:	(N/A, marked #1 by test	site)		
Hardware Version:	11			
Software Version:	realme UI V1.0			
Operating Frequency:	13.56MHz			
Modulation Type:	ASK			
Antenna Type:	FPC Antenna			
	Battery 1			
	Brand Name:	realme		
	Model No.:	BLP729		
A access on a Information	Serial No.: (N/A, marked #1 by test site)			
Accessory Information:	Capacity:	4880mAh		
	Rated Voltage: 3.87V			
	Charge Limit: 4.45V			
	Manufacturer:	Sunwoda Electronic Co., Ltd.		





	Battery 2	Battery 2		
	Brand Name:	realme		
	Model No.:	BLP729		
	Serial No.:	(N/A, marked #1 by test site)		
	Capacity:	4880mAh		
	Rated Voltage:	3.87V		
	Charge Limit:	4.45V		
	Manufacturer:	Huizhou Desay Battery Co.,Ltd		
	AC Adapter 1			
	Brand Name:	realme		
	Model No.:	OP52CAEH		
	Serial No.:	(N/A, marked #1 by test site)		
	Rated Output:	5.0V=2.0A		
	Rated Input:	100-240V~50/60Hz, 0.4A		
Accessory Information:	Manufacturer:	Dongguan YOHOO Electronic Technology Co., Limited		
	AC Adapter 2			
	Brand Name:	realme		
	Model No.:	OP52KAEH		
	Serial No.:	(N/A, marked #1 by test site)		
	Rated Output:	5.0V=2.0A		
	Rated Input:	100-240V~50/60Hz, 0.4A		
	Manufacturer:	ShenZhen KunXing Technology Co., Ltd		
	AC Adapter 3			
	Brand Name:	realme		
	Model No.:	OP52JAEH		
	Serial No.:	(N/A, marked #1 by test site)		
	Rated Output:	5.0V=2.0A		
	Rated Input:	100-240V~50/60Hz, 0.4A		
	Manufacturer:	Ten Pao Electronics (Huizhou) Co., Ltd.		





	AC Adapter 4		
	Brand Name:	realme	
	Model No.:	OP52JAYH	
	Serial No.:	(N/A, marked #1 by test site)	
	Rated Output:	5.0V=2.0A	
	Rated Input:	100-240V~50/60Hz, 0.4A	
	Manufacturer:	Ten Pao Industrial Co., Ltd.	
	AC Adapter 5		
	Brand Name:	realme	
	Model No.:	OP52KAYH	
	Serial No.:	(N/A, marked #1 by test site)	
	Rated Output:	5.0V=2.0A	
	Rated Input:	100-240V~50/60Hz, 0.4A	
Accessory Information:	Manufacturer:	ShenZhen KunXing Technology Co., Ltd	
Accessory mormation.	AC Adapter 6		
	Brand Name:	realme	
	Model No.:	OP52KAUH	
	Serial No.:	(N/A, marked #1 by test site)	
	Rated Output:	5.0V=2.0A	
	Rated Input:	100-240V~50/60Hz, 0.4A	
	Manufacturer:	ShenZhen KunXing Technology Co., Ltd	
	AC Adapter 7		
	Brand Name:	realme	
	Model No.:	OP52JAUH	
	Serial No.:	(N/A, marked #1 by test site)	
	Rated Output:	5.0V=2.0A	
	Rated Input:	100-240V~50/60Hz, 0.4A	
	Manufacturer:	Ten Pao Industrial Co., Ltd.	





	AC Adapter 8		
	Brand Name:	realme	
	Model No.:	OP52YAUH	
Accessory Information:	Serial No.:	(N/A, marked #1 by test site)	
	Rated Output:	5.0V=2.0A	
	Rated Input:	100-240V~50/60Hz, 0.4A	
	Manufacturer:	Jiangsu Chenyang Electron CO.,Ltd.	

Note 1: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.





1.3. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15 (10-1-15 Edition)	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	15.203	Antenna	N/A	N/A	PASS	No deviation
2	15.207	Requirement Conducted Emission	Mar 11, 2021	Huang Zhiye	PASS	No deviation
3	15.209 15.225(a) (b) (c)(d)	Radiated Emission	Mar 11&15, 2021	Gao Jianrou	PASS	No deviation
4	15.225(e)	Frequency Tolerance	Mar 12, 2021	Liu Bo	PASS	No deviation
5	15.215(c)	20dB Bandwidth	Mar 11, 2021	Gao Jianrou	PASS	No deviation

Note 1: The tests were performed according to the method of measurements prescribed in ANSI C63.10-2013. The EUT has been tested under continuous operating condition.

Note 2: 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.

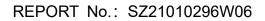
Note 3: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% risk level.

1.4. Environmental Conditions

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

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







2.47 CFR Part 15C Requirements

2.1. Antenna Requirement

2.1.1.Applicable Standard

According to FCC 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

2.1.2.Test Result: Compliant

Inside of the EUT has a FPC antenna coupled with the metal shrapnel. Please refer to the EUT internal photos.





2.2. Conducted Emission

2.2.1.Test Requirement

According to FCC section 15.207, 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 50μ H/50 Ω line impedance stabilization network (LISN).

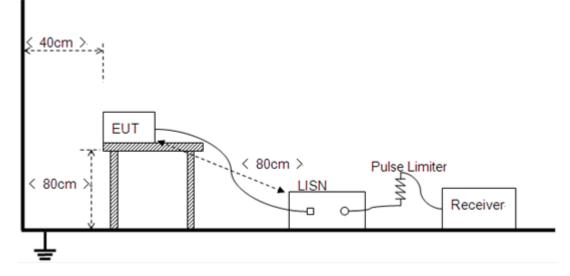
Frequency range	Conducted Limit (dBµV)	
(MHz)	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

NOTE:

(a) The lower limit shall apply at the band edges.

(b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

2.2.2.Test Setup



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 $50\Omega/50\mu$ 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.





2.2.3.Test Result

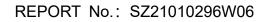
The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT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

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A.Test Setup:

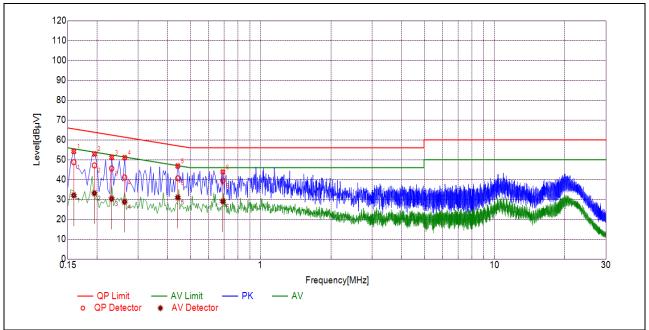
Test Mode: <u>EUT+Adapter+earphone+NFC TX</u> Test voltage: <u>AC 120V/60Hz</u> The measurement results are obtained as below: E [dB μ V] =U_R + L_{Cable loss} [dB] + A_{Factor} U_R: Receiver Reading A_{Factor}: Voltage division factor of LISN





B.Test Plot:

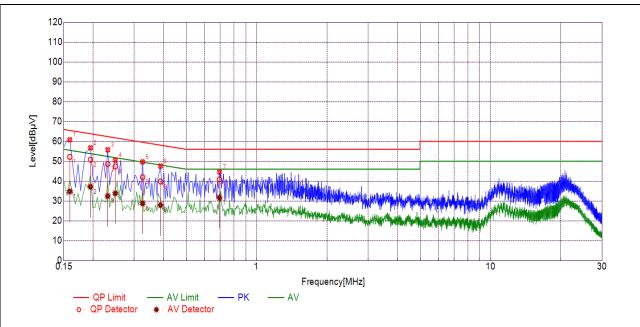
MORI



(L Phase)

No.	Fre.			Limit (dBµV)	Power-line	Verdict
	(MHz)	Quai-peak	Average	Quai-peak	Average		
1	0.1590	48.79	32.04	65.52	55.52		PASS
2	0.1948	47.15	33.15	63.83	53.83		PASS
3	0.2309	45.59	30.34	62.42	52.42	Line	PASS
4	0.2623	41.09	28.78	61.36	51.36	Line	PASS
5	0.4429	40.64	30.99	57.01	47.01		PASS
6	0.6902	39.56	29.01	56.00	46.00		PASS





(N	Phase)
----	--------

No.	Fre.	Emission Level (dBµV)		Limit (dBµV)	Power-line	Verdict
	(MHz)	Quai-peak	Average	Quai-peak	Average		
1	0.1590	52.20	34.78	65.51	55.51		PASS
2	0.1949	50.80	37.11	63.83	53.83		PASS
3	0.2310	48.61	32.43	62.41	52.41		PASS
4	0.2490	47.40	33.88	61.79	51.79	Neutral	PASS
5	0.3257	41.94	28.75	59.56	49.56		PASS
6	0.3884	39.79	27.90	58.10	48.10		PASS
7	0.6940	40.86	31.59	56.00	46.00		PASS



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2.3. Radiated Emission

2.3.1.Test Requirement

Radiated Emission <30MHz (9 kHz-30MHz, E-field)

According to FCC section 15.225, for <30MHz, Radiated emissions were measured according to ANSIC63.4. The EUT was set to transmit at the highest output power. The EUT was set 30 meter away from the measuring antenna. The loop antenna was positioned 1 meter above the ground from the center of the loop. The measuring bandwidth was set to 10KHz. (Note: During testing the receive antenna was rotated about its axis to maximize the emission from the EUT)

There was no detected Restricted bands and Radiated Spurious emission below 30MHz. The 30m limit was converted to 3m Limit using square factor(x) as it was found by measurements as follows; 3 m Limit(dBuV/m) = 20log(X)+40log(30/3) = 20log(15848)+40log(30/3) = 124dBuV

Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

	Field Stre	Field Strength@3m	
Frequency range (MHz)	μV/m	dBµV/m	dBµV/m
Below 13.110	30	29.5	69.5
13.110 ~ 13.410	106	40.5	80.5
13.410 ~ 13.553	334	50.5	90.5
13.553 ~13.567	15.848	84	124
13.567 ~ 13.710	334	50.5	90.5
13.710 ~14.010	106	40.5	80.5
Above 14.010	30	29.5	69.5

NOTE: a) Field Strength (dB μ V/m) = 20*log[Field Strength (μ V/m)].

b) In the emission tables above, the tighter limit applies at the band edges.

Radiated Emission >30MHz (30MHz-1GHz, E-field)

According to FCC section 15.205, the field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the following values:

	Field Strength				
Frequency range (MHz)	μV/m	dBµV/m			
30 - 88	100	40			
88 - 216	150	43.5			
216 - 960	200	46			
Above 960	500	54			

NOTE: a) Field Strength (dB μ V/m) = 20*log[Field Strength (μ V/m)].

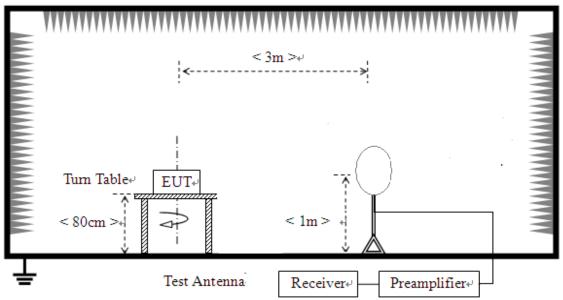
b) In the emission tables above, the tighter limit applies at the band edges.



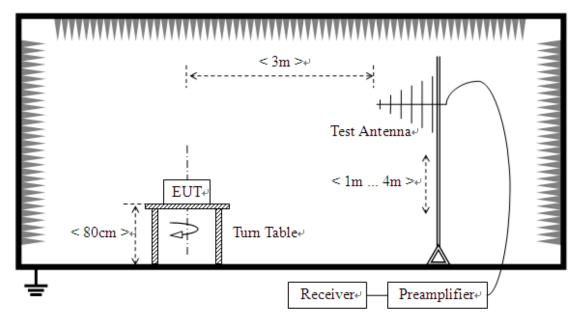


2.3.2.Test Setup

1) For radiated emissions below 30MHz



2) For radiated emissions from 30MHz to1GHz



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 a variable-height antenna master tower.





For the test Antenna:

In the frequency range of 9 kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) was 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 frequency range from 0.009MHz to 0.15MHz, the resolution bandwidth is set to 200kHz.

For measurements frequency range from 0.15MHz to 30MHz the resolution bandwidth is set to 9kHz.

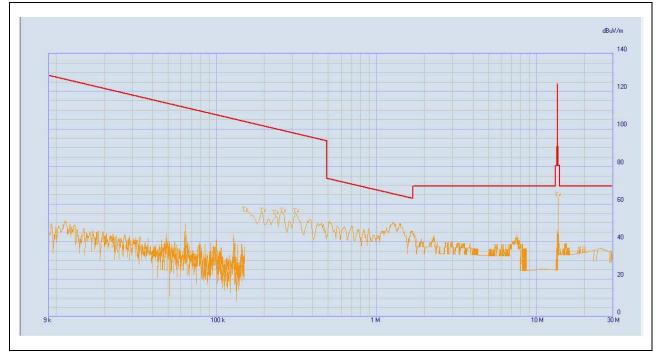
The emission limits shown in the above are based on measurements employing a CISPR quasi-p eak detector except for the frequency bands 9-90 kHz and 110-490 kHz. Radiated emission limits in these three bands are based on measurements employing an average detector.





2.3.3.Test Result

A.Radiated Emission <30MHz (9kHz-30MHz, opened)

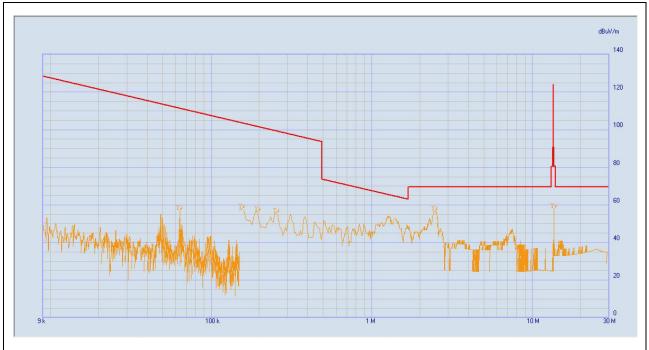


No.	Frequency (MHz)	Detector Type	Level at 3m (dBµV/m)	Limit at 3m (dBµV/m)
1	0.15	Quasi Peak	56.12	69.5
2	0.195	Quasi Peak	55.38	69.5
3	0.235	Quasi Peak	54.23	69.5
4	0.260	Quasi Peak	55.46	69.5
5	0.315	Quasi Peak	55.06	69.5
6	13.56	Quasi Peak	63.94	124.0



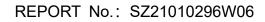


B.Radiated Emission <30MHz (9kHz-30MHz, closed)



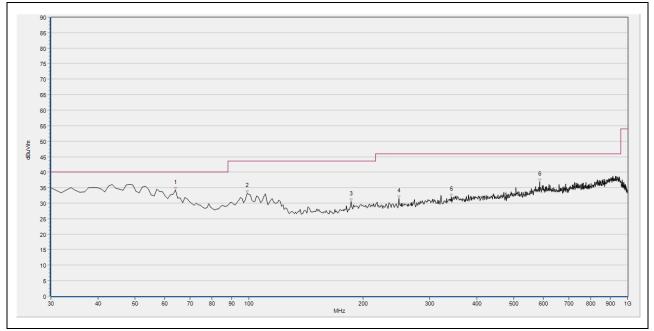
No.	Frequency (MHz)	Detector Type	Level at 3m (dBµV/m)	Limit at 3m (dBµV/m)
1	0.635	Quasi Peak	57.11	69.5
2	0.155	Quasi Peak	57.87	69.5
3	0.195	Quasi Peak	56.72	69.5
4	0.255	Quasi Peak	55.79	69.5
5	2.47	Quasi Peak	56.86	69.5
6	13.56	Quasi Peak	58.40	124.0







C.Radiated Emission >30MHz (30MHz-1GHz)

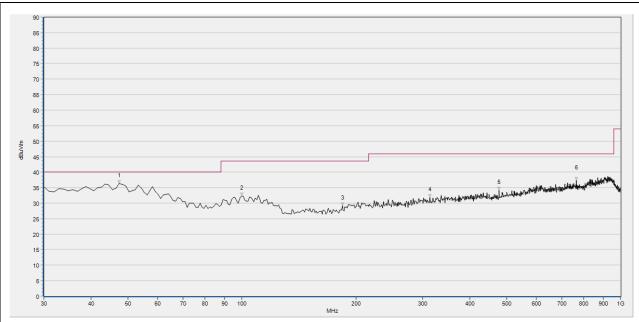


(30MHz - 1GHz, Test Antenna Horizontal)

Ne	Fre.	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV		Verdiet
No.	MHz	dBµV/m	dBµV/m	dBµV/m	dBµV/m	dBµV/m	dBµV/m	ANT	Verdict
1	63.950	34.21	N/A	N/A	N/A	40.00	N/A	Н	PASS
2	98.870	33.16	N/A	N/A	N/A	43.50	N/A	Н	PASS
3	186.170	30.45	N/A	N/A	N/A	43.50	N/A	Н	PASS
4	249.220	31.50	N/A	N/A	N/A	46.00	N/A	Н	PASS
5	342.340	32.05	N/A	N/A	N/A	46.00	N/A	Н	PASS
6	585.810	36.89	N/A	N/A	N/A	46.00	N/A	Н	PASS







(30MHz – 1GHz, Test Antenna Vertical)

Na	Fre.	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV		Verdiet
No.	MHz	dBµV/m	dBµV/m	dBµV/m	dBµV/m	dBµV/m	dBµV/m	ANT	Verdict
1	47.460	36.44	N/A	N/A	N/A	40.00	N/A	V	PASS
2	99.840	32.34	N/A	N/A	N/A	43.50	N/A	V	PASS
3	184.230	29.09	N/A	N/A	N/A	43.50	N/A	V	PASS
4	313.240	31.91	N/A	N/A	N/A	46.00	N/A	V	PASS
5	478.140	34.22	N/A	N/A	N/A	46.00	N/A	V	PASS
6	765.260	37.33	N/A	N/A	N/A	46.00	N/A	V	PASS



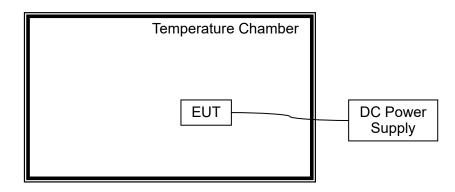


2.4. Frequency Tolerance

2.4.1.Test Requirement

According to FCC section 15.225, the devices operating in the 13.553~13.567 MHz shall maintain the carrier frequency within 0.01% of the operating frequency over the temperature variation of -20°C to +50°C using an environmental chamber. The primary supply voltage is varied from 85% to 115% of the voltage normally at the input to the device or at the power supply terminals if cables are not normally supplied.

2.4.2.Test Setup



The EUT, which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT was measured by transmitter mode continuously.





2.4.3.Test Result

Operating Frequency: 13,560,000 Hz Deference Voltage: 3.87V Deviant Limit: ±0.01%

	Test	Conditions			
VOLTAGE (%)	Power	Temperature	Fre. Dev. (Hz)	Deviation (%)	Verdict
	(VDC)	(°C)			
100		-20	282	0.00208	
100		-10	273	0.00201	
100		0	256	0.00189	
100		+10	247	0.00182	
100	3.87	+20	255	0.00188	
100		+25	260	0.00192	PASS
100		+30	266	0.00196	
100		+40	274	0.00202	
100		+50	279	0.00206	
85	3.45	+20	281	0.00207	
115	4.45	+20	256	0.00189	



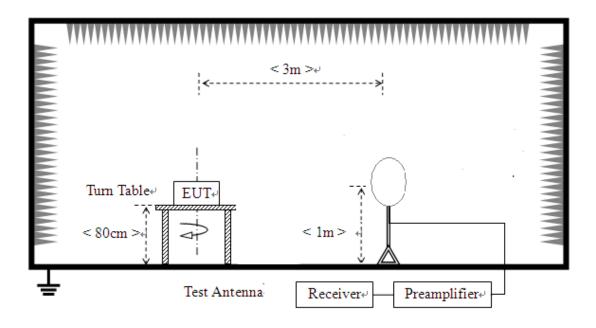
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2.5.1.Standard Applicable

According to FCC section 15.215(c), the 20dB bandwidth should be contained within the frequency band designated in the rule section under which the EUT is operated, it was measured with a spectrum analyzer connected the EUT while the EUT is operating in transmission mode.

2.5.2.Test Setup





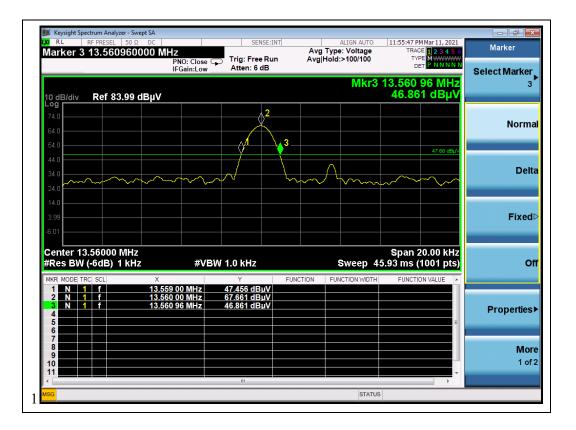
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2.5.3.Test Result

	Me	easurement			
Centre	20dB	Fraguenov Pango	20dB	Frequency	Verdict
Frequency	Bandwidth	Frequency Range (MHz)	Bandwidth	Frequency Range(MHz)	verdict
	(kHz)	(10172)	(kHz)	Range(MIRZ)	
13.56MHz	1.96	13. 55900 to 13.56096	14	13.553 to 13.567	PASS





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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.

Radiated Emission:	±3.1dB
Conducted Emission:	±1.8dB
Bandwidth	±5%
Frequency Tolerance	±5%



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Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

	Shenzhen Morlab Communications Technology Co., Ltd.	
Laboratory Name:	Morlab Laboratory	
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Laboratory Address:	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

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

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.





4. Test Equipments Utilized

4.1 Test Equipments

Equipment Name	Serial No.	Туре	Manufacturer	Cal. Date	Due Date
Receiver	MY54130016	N9038A	Agilent	2020.07.21	2021.07.20
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2019.05.24	2022.05.23
Test Antenna - Loop	1520-022	FMZB1519	Schwarzbeck	2019.02.14	2022.02.13
Anechoic Chamber	N/A	9m*6m*6m	CRT	2020.01.06	2023.01.05
DC Power Supply	1709D361010	IV3610	IVYTECH	2020.10.26	2021.10.25
Temperature Chamber	12108015	DTL-003S101	YOMA	2020.10.26	2021.10.25

4.2 Conducted Emission Test Equipments

Equipment Name	Serial No.	Туре	Manufacturer	Cal. Date	Due Date
Receiver	MY56400093	N9038A	KEYSIGHT	2020.03.26	2021.03.25
LISN	812744	NSLK 8127	Schwarzbeck	2020.03.26	2021.03.25
Pulse Limiter	VTSD 9561	VTSD	Schwarzbeck	2020.07.24	2021.07.23
(10dB)	F-B #206	9561-F	Schwarzbeck	2020.07.24	2021.07.23
Coaxial					
cable(BNC)	CB01	EMC01	Morlab	N/A	N/A
(30MHz-26GHz)					

4.3 Test Software Utilized

Model	Version Number	Manufacturer
TS+ -[JS32-RE]	Version 2.5.0.6	Tonscend
TS+ -[JS32-CE]	Version 2.5.0.0	Tonscend
PMM Emission Suite	Version 2.02	narda

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