



TEST REPORT

APPLICANT	Realme Chongqing Mobile Telecommunications Corp., Ltd.
PRODUCT NAME	: Mobile Phone
MODEL NAME	: RMX3513
BRAND NAME	: realme
FCC ID	: 2AUYFRMX3513
STANDARD(S)	: 47 CFR Part 15 Subpart B
RECEIPT DATE	: 2021-11-26
TEST DATE	: 2021-12-07 to 2021-12-14
ISSUE DATE	: 2022-01-26

Edited by: Yu Xiaolin(Rapporteur) Approved by: Xiao Xiong(Supervisor)

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Change History				
Version Date Reason for Change				
1.0	2022-01-26	First edition		





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.:	16#	
Hardware Version:	11	
Software Version:	Android 11	
Tx Frequency:	GSM850: 824 MHz ~ 849 MHz	
	GSM1900: 1850 MHz ~ 1910 MHz	
	WCDMA Band V: 824 MHz ~ 849 MHz	
	LTE Band 5: 824 MHz ~ 849 MHz	
	LTE Band 7: 2500 MHz ~ 2570 MHz	
	LTE Band 38: 2570 MHz ~ 2620 MHz	
	LTE Band 40: 2300 MHz ~2400 MHz	
	LTE Band 41: 2535 MHz ~ 2655 MHz	
	Bluetooth: 2402 MHz ~ 2480 MHz	
	802.11b/g/n: 2412 MHz ~ 2462 MHz	
	802.11a/ac/n: 5150 MHz ~ 5250 MHz;5250 MHz ~ 5350 MHz;	
	5470 MHz ~ 5725 MHz;5745MHz ~ 5825 MHz	
	NFC:13.56MHz	
Rx Frequency:	GSM850: 869MHz ~ 894 MHz	
	GSM1900: 1930 MHz ~ 1990 MHz	
	WCDMA Band V: 869 MHz ~ 894 MHz	
	LTE Band 5: 869 MHz ~ 894 MHz	
	LTE Band 7: 2620 MHz ~ 2690 MHz	
	LTE Band 38: 2570 MHz ~ 2620 MHz	
	LTE Band 40: 2300 MHz ~2400 MHz	
	LTE Band 41: 2535 MHz ~ 2655 MHz	





	Bluetooth: 2402 N			
	802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/ac/n: 5180 MHz ~ 5240 MHz;5260 MHz ~ 5320 MHz; 5500 MHz ~ 5700 MHz;5745MHz ~ 5825 MHz			
	GPS/GLONASS/BeiDou/SBAS:1559 MHz ~ 1610 MHz NFC:13.56MHz			
Ancillary Equipment:	AC Adapter 1			
	Brand Name:	realme		
	Model No.:			
		OP92JAUH		
	Serial No.:	(N/A, marked #1 by test site)		
	Rated Input:	100-240V~50/60Hz, 0.5A		
	Rated Output:	5V=2A,9V=2A		
	Manufacturer:	Huizhou Golden Lake Industrial Co., Ltd.		
	AC Adapter 2			
	Brand Name:	realme		
	Model No.:	OP92CAUH		
	Serial No.:	(N/A, marked #1 by test site)		
	Rated Input:	100-240V~50/60Hz, 0.5A		
	Rated Output:	5V=2A,9V=2A		
	Manufacturer:	Dongguan YOHOO Electronic Technology Co., Ltd.		
	AC Adapter 3			
	Brand Name:	realme		
	Model No.:	OP92YAUH		
	Serial No.:	(N/A, marked #1 by test site)		
	Rated Input:	100-240V~50/60Hz, 0.5A		
	Rated Output:	5V=2A,9V=2A		
	Manufacturer:	Jiangsu Chenyang Electron 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			
I	- F			





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:	DL143
Manufacturer:	N/A
Earphone	·
Model:	MH156
Manufacturer:	N/A

Note:

- This is a variant report of original report (Report No.: SZ21110383E01, Model: RMX3511,FCC ID: 2AUYFRMX3511), based on the similarity between before, changed model name, add NFC, remove WCDMA Band 2/4, LTE Band 2/4/12/17/26/66 by hardware, the others 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.





2.1. 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	2021.12.14	Yang Lian	PASS ^{Note 3}	No deviation
2	15.109	Radiated Emission	2021.12.07	Lin Jiayong 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.: SZ21110383E01).





2.2. EUT Setup and Operating Conditions

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

Test Iten	n	
Radiated	d E	mission
Mode 1	:	GSM Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable(Charging from
		Adapter) + Earphone+ Adapter+ SIM Card+ GPS Rx + NFC
Mode 2	:	WCDMA Band Idle + Bluetooth Idle + 5G 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	:	GSM Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable(Charging from
		Adapter) + Earphone+ Adapter+ SIM Card+ SBAS Rx
Mode 5	:	WCDMA Band Idle + Bluetooth Idle + 5G 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 + Recording
Conduct	ed	Emission
Mode 1	:	GSM Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable(Charging from
		Adapter) + Earphone+ Adapter+ SIM Card+ GPS Rx + NFC
Mode 2	:	WCDMA Band Idle + Bluetooth Idle + 5G 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	:	GSM Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable(Charging from
		Adapter) + Earphone + Adapter+ SIM Card+ SBAS Rx
Mode 5	:	WCDMA Band Idle + Bluetooth Idle + 5G 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 + Recording
Remark:		
		test mode in boldface (Mode 6) was the worst case of conducted emission test, only
		a of these modes were reported. The above test mode in boldface (Mode 5) was the
worst cas	se	of 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
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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 ACpower 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)	Quasi-peak	Average			
0.15 - 0.50	66 to 56	56 to 46			
0.50 - 5	56	46			
5 - 30	60	50			

NOTE:

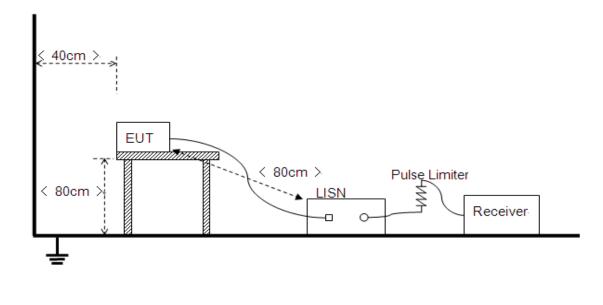
a) The limit subjects to the Class B digital device.

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.





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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.

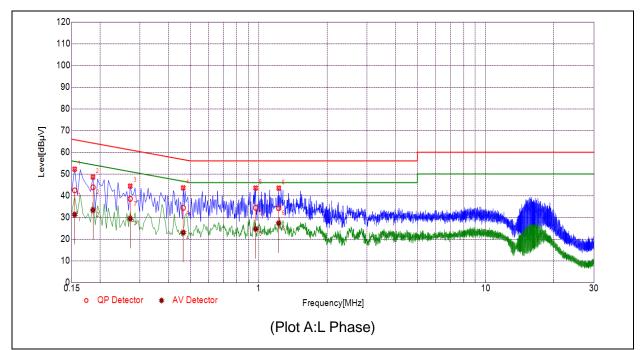
The power strip or extension cord has been investigated to make sure that the LISN integrity inma intained with respect to the impedance characteristics as prescribed in ANSI C63.4-2014 at Clause 4.3.

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.







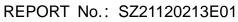
A. Test Plot and Suspicious Points:

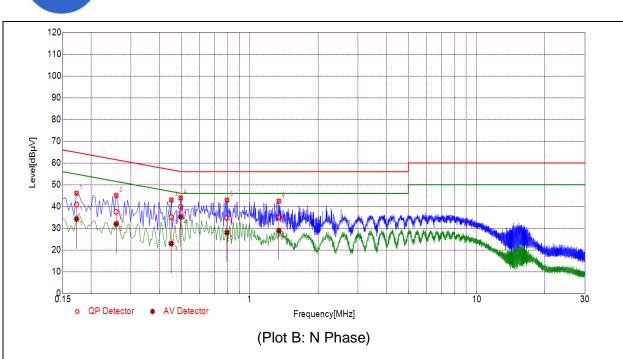
NO	Fre.	Fre. Emission Level (dBµV)		Limit (c	dBμV)	Dower line	Verdiet
NO.	(MHz)	Quai-peak	Average	Quai-peak	Average	Power-line	Verdict
1	0.1545	42.41	31.32	65.75	55.75		PASS
2	0.1861	43.87	33.35	64.21	54.21		PASS
3	0.2714	38.53	29.39	61.07	51.07	Line	PASS
4	0.4649	34.36	23.00	56.61	46.61	Line	PASS
5	0.9694	34.40	24.67	56.00	46.00		PASS
6	1.2254	34.23	27.31	56.00	46.00		PASS



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NO.	Fre.	Emission Level (dBµV)		Limit (c	dBμV)	Dowor line	Verdict
NO.	(MHz)	Quai-peak	Average	Quai-peak	Average	Power-line	verdict
1	0.1726	40.91	34.29	64.83	54.83		PASS
2	0.2578	37.53	31.95	61.50	51.50		PASS
3	0.4511	35.02	22.91	56.85	46.85	Neutrol	PASS
4	0.4964	39.78	35.24	56.06	46.06	Neutral	PASS
5	0.7934	34.72	27.99	56.00	46.00		PASS
6	1.3437	35.07	28.89	56.00	46.00		PASS



MORL

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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	Field Strength Limitation at 3m Measurement Dist					
Range (MHz)	(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 indB 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:

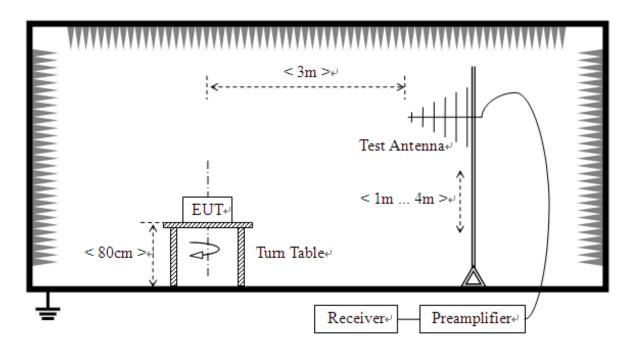
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measure- ment range (MHz)
Below 1.705 1.705–108 108–500 500–1000 Above 1000	30. 1000. 2000. 5000. 5th harmonic of the highest frequency or 40 GHz, whichever is lower.



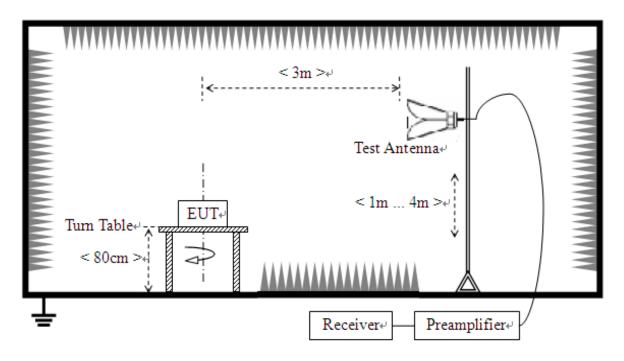


3.2.3. Test Setup

1) For radiated emissions from 30MHz to1GHz



2) For radiated emissions above 1GHz





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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

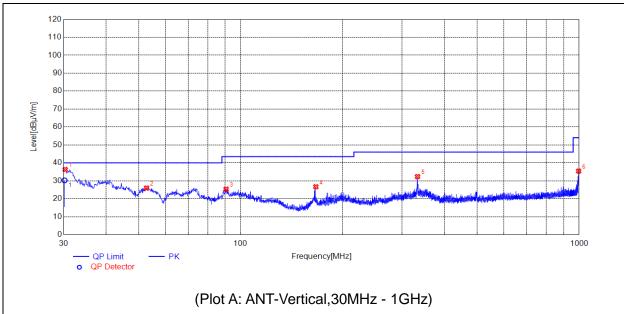
The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors. Both the vertical and the horizontal polarizations of the Test Antenna are considered to perform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







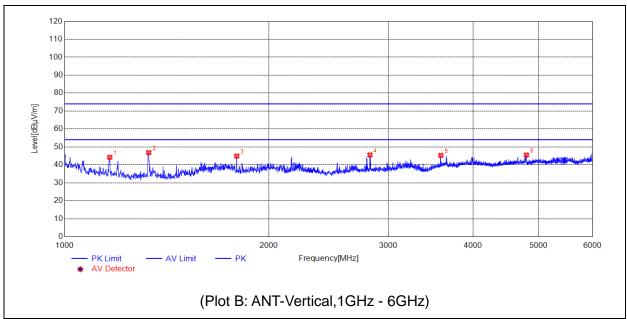
No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	30.2910	36.32	30.25	N.A	N.A	40.00	N.A	V	PASS
2	52.7003	25.99	N.A	N.A	N.A	40.00	N.A	V	PASS
3	90.5341	25.39	N.A	N.A	N.A	43.50	N.A	V	PASS
4	166.6867	26.67	N.A	N.A	N.A	43.50	N.A	V	PASS
5	332.9613	32.35	N.A	N.A	N.A	46.00	N.A	V	PASS
6	996.3136	35.41	N.A	N.A	N.A	54.00	N.A	V	PASS



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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	1165.0330	44.24	N.A	N.A	74.00	N.A	54.00	V	PASS
2	1330.0660	46.83	N.A	N.A	74.00	N.A	54.00	V	PASS
3	1793.1586	44.90	N.A	N.A	74.00	N.A	54.00	V	PASS
4	2819.3639	45.56	N.A	N.A	74.00	N.A	54.00	V	PASS
5	3586.5173	45.29	N.A	N.A	74.00	N.A	54.00	V	PASS
6	4795.7592	45.51	N.A	N.A	74.00	N.A	54.00	V	PASS



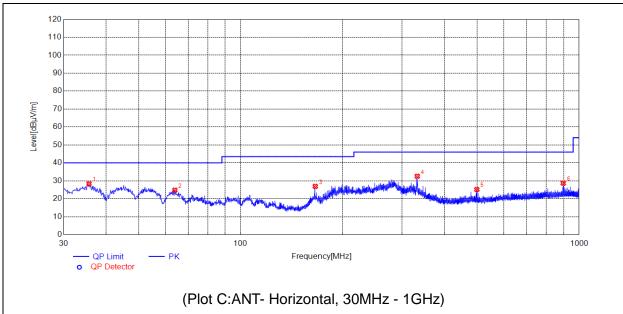
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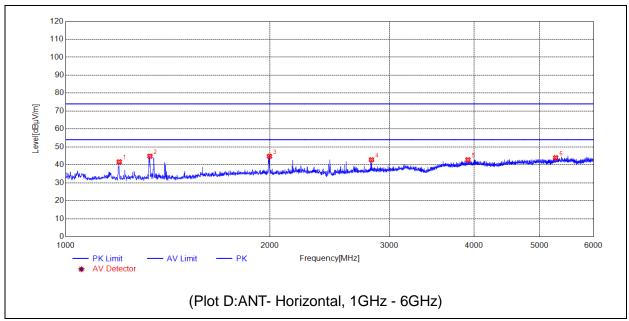




No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	35.6266	28.35	N.A	N.A	N.A	40.00	N.A	н	PASS
2	63.8564	24.79	N.A	N.A	N.A	40.00	N.A	Н	PASS
3	166.1046	26.92	N.A	N.A	N.A	43.50	N.A	Н	PASS
4	332.3792	32.57	N.A	N.A	N.A	46.00	N.A	Н	PASS
5	498.4598	25.16	N.A	N.A	N.A	46.00	N.A	Н	PASS
6	897.3637	28.70	N.A	N.A	N.A	46.00	N.A	Н	PASS







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	1199.0398	41.69	N.A	N.A	74.00	N.A	54.00	Н	PASS
2	1331.0662	44.82	N.A	N.A	74.00	N.A	54.00	Н	PASS
3	1997.1994	44.79	N.A	N.A	74.00	N.A	54.00	Н	PASS
4	2824.3649	42.82	N.A	N.A	74.00	N.A	54.00	Н	PASS
5	3918.5837	42.83	N.A	N.A	74.00	N.A	54.00	н	PASS
6	5278.8558	43.95	N.A	N.A	74.00	N.A	54.00	Н	PASS



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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	9kHz-150kHz	±3.3dB
a Level of Confidence of	150kHz-30MHz	±2.8dB
95%(U=2Uc(y))		

Uncertainty of Radiated Emission Measurement

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



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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.		
	FL.3, Building A, FeiYang Science Park, No.8 LongChang		
Address:	Road, Block 67, BaoAn District, ShenZhen, GuangDong		
	Province, P. R. China		

3. Accreditation Certificate

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

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





5. Test Equipments Utilized

Description	Model	Serial No.	Manufacturer	Cal. Date	Due. Date
Bi-Log Antenna	VULB 9163	9163-519	SCHWARZBE CK	2019/5/24	2022/5/23
Horn Antenna	BBHA 9120D	01774	SCHWARZBE CK	2019/7/26	2022/7/25
Receiver	N9038A	MY5640009 3	KEYSIGHT	2021/3/9	2022/3/8
Signal Analyzer	N9020A	MY5606014 5	Agilent	2021/7/26	2022/7/25
Horn Antenna	BBHA 9170	BBHA 9170#774	SCHWARZBE CK	2019/7/26	2022/7/25
6db Attenuator	BW-N6W5+	E191001	Mini-circuits	2021/10/18	2022/10/17
Preamplifier	S020180L3203	61171/6117 2	LUCIX CORP.	2021/7/16	2022/7/15
Preamplifier	S10M100L3802	46732	LUCIX CORP.	2021/7/16	2022/7/15
Preamplifier	S150300L3202	71136	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	SCHWARZBE CK	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

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