

FCC RF Test Report

APPLICANT	:	Xiaomi Communications Co., Ltd.
EQUIPMENT	:	Mobile Phone
BRAND NAME	:	Xiaomi
MODEL NAME	:	2203129G
FCC ID	:	2AFZZ3129G
STANDARD	:	FCC Part 15 Subpart C §15.225
CLASSIFICATION	:	(DXX) Low Power Communication Device Transmitter
TEST DATE(S)	:	Jan. 31, 2022 ~ Feb. 09, 2022

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

JasonJia

Reviewed by: Jason Jia / Supervisor

Acenwany

Approved by: Alex Wang / Manager



Sporton International Inc. (Kunshan) No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China



TABLE OF CONTENTS

TAE	BLE (OF CONTENTS	2
		ON HISTORY	
		RY OF THE TEST RESULT	
		RAL DESCRIPTION	
1	1.1	Applicant	5
1	.2	Manufacturer	5
1	.3	Product Feature of Equipment Under Test	5
1	.4	Product Specification of Equipment Under Test	
1	.5	Modification of EUT	
1	.6	Testing Location	6
1	.7	Test Software	6
		Applicable Standards	
2. T	EST	CONFIGURATION OF EQUIPMENT UNDER TEST	7
2	2.1	Descriptions of Test Mode	7
2	2.2	Connection Diagram of Test System	7
2	2.3	Table for Supporting Units	8
2	2.4	EUT Operation Test Setup	8
3. T	EST	RESULTS	9
3	3.1	AC Power Line Conducted Emissions Measurement	9
3	3.2	20dB and 99% OBW Spectrum Bandwidth Measurement	
3	3.3	Frequency Stability Measurement	
3	3.4	Field Strength of Fundamental Emissions and Mask Measurement	
3	8.5	Radiated Emissions Measurement	15
		Antenna Requirements	
		OF MEASURING EQUIPMENT	
5. U	NCE	ERTAINTY OF EVALUATION	20
APF	PEND	DIX A. TEST RESULTS OF CONDUCTED EMISSION TEST	
APF	PEND	DIX B. TEST RESULTS OF CONDUCTED TEST ITEMS	
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B1. Test Result of 20dB Spectrum Bandwidth

B2. Test Result of Frequency Stability

APPENDIX C. TEST RESULTS OF RADIATED TEST ITEMS

- C1. Test Result of Field Strength of Fundamental Emissions
- C2. Results of Radiated Emissions (9 kHz~30MHz)
- 0. Results of Radiated Emissions (30MHz~1GHz)

APPEDNIX D. SETUP PHOTOGRAPHS



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR211306D	Rev. 01	Initial issue of report	Mar. 17, 2022



SUMMARY OF THE TEST RESULT

Report Section	FCC Rule	Description of Test	Result	Remark
2.1	15 007	AC Power Line Conducted	Complian	Under limit
3.1	15.207	Emissions	Complies	9.04 dB at 13.560MHz
	15.215(c)	20dB Spectrum Bandwidth	Complies	-
3.2	-	99% OBW Spectrum Bandwidth	Complies	-
3.3	15.225(e)	Frequency Stability	Complies	-
3.4	15.225(a)(b)(c)	Field Strength of Fundamental Emissions	Complies	Max level 57.26 dBµV/m at 13.560 MHz
3.5	15.225(d) & 15.209	Radiated Spurious Emissions	Complies	Under limit 9.82 dB at 47.460MHz
3.6	15.203	Antenna Requirements	Complies	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1. General Description

1.1 Applicant

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature			
Equipment	Mobile Phone		
Brand Name	Xiaomi		
Model Name	2203129G		
FCC ID 2AFZZ3129G			
IMEI Code	Conducted: 868214060105440/868214060105457 Conduction: 868214060101563/868214060101571 Radiation: 868214060101985/868214060101993		
HW Version	P2.1		
SW Version MIUI 13			
EUT Stage	Identical Prototype		

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification			
Tx/Rx Frequency Range	13.553 ~ 13.567MHz		
Channel Number	1		
20dBW	2.49 KHz		
99%OBW	2.10 KHz		
Antenna Type	FPC Antenna		
Type of Modulation	ASK		

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Site	Sporton Inter	Sporton International Inc. (Kunshan)				
Test Site Location	Jiangsu Prov TEL : +86-51	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958				
Test Site No.		Sporton Site No		FCC Designation No.	FCC Test Firm Registration No.	
	TH01-KS	03CH02-KS	CO01-KS			
Test Engineer	Alan He Yoke SI		Amos Zhang	014057	014000	
Temperature	22-24 ℃ 21-22 ℃ 25.3~26.2		25.3~26.2	CN1257	314309	
Relative Humidity	53-55%	41-42%	38~40			

1.7 Test Software

lte	em	Site	Manufacturer	Name	Version
	1.	03CH02-KS	AUDIX	E3	6.2009-8-24a
	2.	CO01-KS	AUDIX	E3	6.2009-8-24

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart C §15.225
- ANSI C63.10-2013



2. Test Configuration of Equipment Under Test

2.1 Descriptions of Test Mode

Investigation has been done on all the possible configurations.

The following table is a list of the test modes shown in this test report.

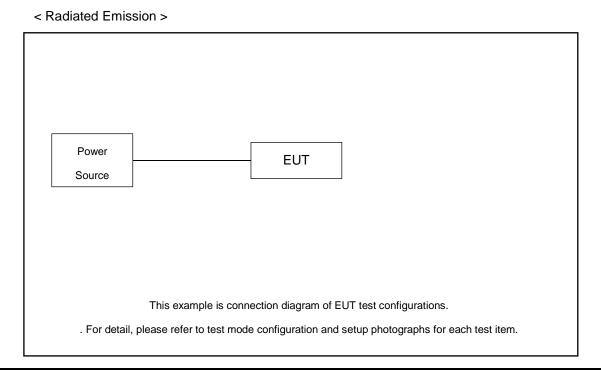
Test Items			
AC Power Line Conducted Emissions	Field Strength of Fundamental Emissions		
20dB Spectrum Bandwidth	Frequency Stability		
Radiated Emissions 9kHz~30MHz	Radiated Emissions 30MHz~1GHz		

The EUT pre-scanned in four NFC type, A, B, F, V. The worst type (type B) was recorded in this report.

Pre-scanned tests, X, Y, Z in three orthogonal panels to determine the final configuration (Z plane as worst plane) from all possible combinations.

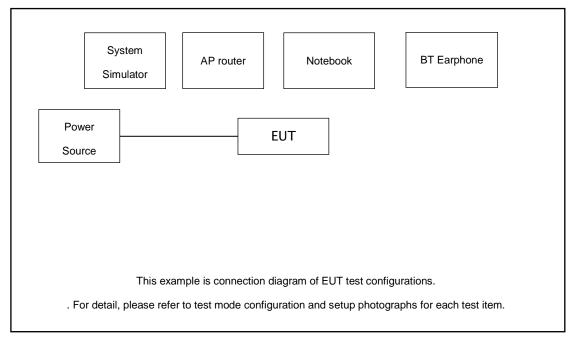
	Test Cases					
AC Conducted Emission	Mode 1: GSM 850 Idle + Bluetooth Link + WLAN Link (2.4G) + USB Cable1 (Charging from Adapter)+NFC Tx					
Remark: 1. For Radiated Test Cases, The tests were performance with Adapter 1, USB Cable 1						

2.2 Connection Diagram of Test System





< AC Conducted Emission >



2.3 Table for Supporting Units

ltem	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritus	MT8821C	N/A	N/A	Unshielded,1.8m
2.	Bluetooth Earphone	Xiaomi	LYEJ02LM	N/A	N/A	N/A
3.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
4.	Notebook	Lenovo	G480	QDS-BRCM1050I		AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
5.	SD Card	Kingston	8GB	N/A	N/A	N/A
6.	Adapter	N/A	N/A	N/A	N/A	N/A
7.	NFC Card	N/A	N/A	N/A	N/A	N/A

2.4 EUT Operation Test Setup

The EUT was programmed to be in continuously transmitting mode.

The ancillary equipment, NFC card, is used to make the EUT (NFC) continuously transmit at 13.56MHz and is placed around 3 cm gap to the EUT.



3. Test Results

3.1 AC Power Line Conducted Emissions Measurement

3.1.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission	Conducted Limit (dBµV)		
(MHz)	Quasi-Peak	Average	
0.15-0.5	66 to 56*	56 to 46*	
0.5-5	56	46	
5-30	60	50	

*Decreases with the logarithm of the frequency.

3.1.2 Measuring Instruments

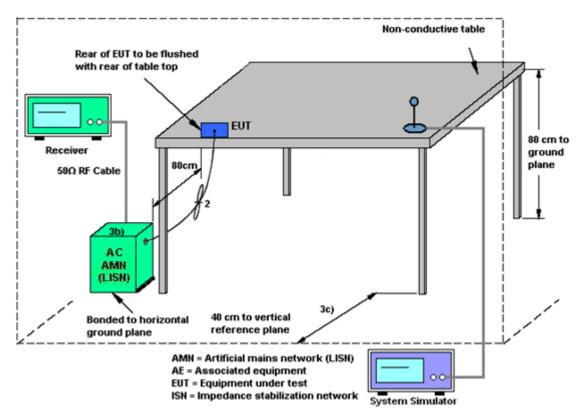
See list of measuring instruments of this test report.

3.1.3 Test Procedures

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.



3.1.4 Test setup



3.1.5 Test Result of AC Conducted Emission

Please refer to Appendix A.



3.2 20dB and 99% OBW Spectrum Bandwidth Measurement

3.2.1 Limit

Intentional radiators must be designed to ensure that the 20dB and 99% emission bandwidth in the specific band 13.553~13.567MHz.

3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

- 1. The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.
- 2. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
- 3. Measured the spectrum width with power higher than 20dB below carrier.
- 4. Measured the 99% OBW.

3.2.4 Test Setup



3.2.5 Test Result of Conducted Test Items

Please refer to Appendix B.



3.3 Frequency Stability Measurement

3.3.1 Limit

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

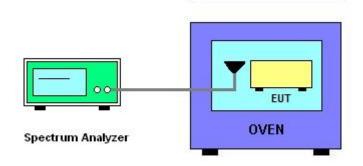
3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

- 1. The spectrum analyzer connected via a receive antenna placed near the EUT.
- 2. EUT have transmitted signal and fixed channelize.
- 3. Set the spectrum analyzer span to view the entire emissions bandwidth.
- 4. Set RBW = 1 kHz, VBW = 3 kHz with peak detector and maxhold settings.
- 5. The fc is declaring of channel frequency. Then the frequency error formula is $(fc-f)/fc \times 10^6$ ppm and the limit is less than ±100ppm.
- 6. Extreme temperature rule is -20°C~50°C.

3.3.4 Test Setup



3.3.5 Test Result of Conducted Test Items

Please refer to Appendix B.



3.4 Field Strength of Fundamental Emissions and Mask Measurement

3.4.1 Limit

Rules and specifications	FCC CFR 47 Part 15 section 15.225								
Description	Compliance with th	Compliance with the spectrum mask is tested with RBW set to 9kHz.							
Frequet Emission (MHz)	Field Strength	Field Strength	Field Strength	Field Strength					
Freq. of Emission (MHz)	(µV/m) at 30m	(dBµV/m) at 30m	(dBµV/m) at 10m	(dBµV/m) at 3m					
1.705~13.110	30	29.5	48.58	69.5					
13.110~13.410	106	40.5	59.58	80.5					
13.410~13.553	334	50.5	69.58	90.5					
13.553~13.567	15848	84.0	103.08	124.0					
13.567~13.710	334	50.5	69.58	90.5					
13.710~14.010	106	40.5	59.58	80.5					
14.010~30.000	30	29.5	48.58	69.5					

3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

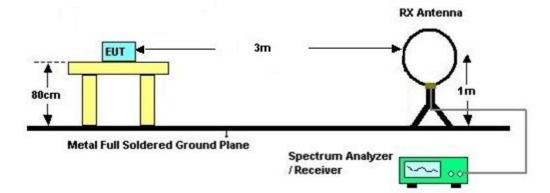


3.4.3 Test Procedures

- Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the loop receiving antenna mounted antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the receiving antenna was fixed at one meter above ground to find the maximum emissions field strength.
- 4. For Fundamental emissions, use the receiver to measure QP reading.
- 5. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- Compliance with the spectrum mask is tested with RBW set to 9kHz.
 Note: Emission level (dBμV/m) = 20 log Emission level (μV/m).

3.4.4 Test Setup

For radiated emissions below 30MHz



3.4.5 Test Result of Field Strength of Fundamental Emissions and Mask

Please refer to Appendix C.



3.5 Radiated Emissions Measurement

3.5.1 Limit

The field strength of any emissions which appear outside of 13.110 ~14.010MHz band shall not exceed the general radiated emissions limits.

Frequencies	Field Strength	Measurement Distance
(MHz)	(μV/m)	(meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

3.5.3 Measuring Instrument Setting

The following table is the setting of receiver.

Receiver Parameter	Setting
Attenuation	Auto
Frequency Range: 9kHz~150kHz	RBW 200Hz for QP
Frequency Range: 150kHz~30MHz	RBW 9kHz for QP
Frequency Range: 30MHz~1000MHz	RBW 120kHz for Peak

Note: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.



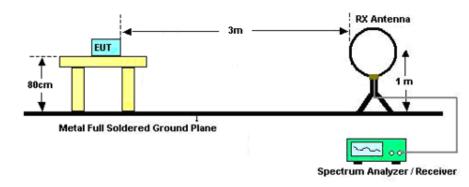
3.5.4 Test Procedures

- Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 7. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. Antenna Requirements

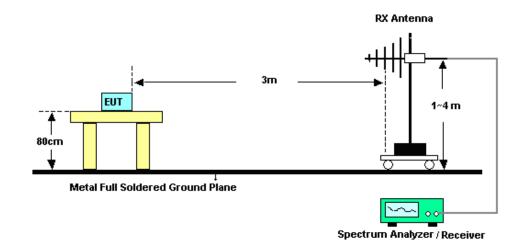


3.5.5 Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz



3.5.6 Test Result of Radiated Emissions Measurement

Please refer to Appendix C.

Remark:

- 1. There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.
- 2. According to C63.10 radiated Test, the EUT pre-scanned horizontal, vertical, and ground-parallel three polarization's, the worst case is horizontal & vertical polarization, test data of two mode was reported.



3.6 Antenna Requirements

3.6.1 Standard Applicable

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. 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. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

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 rule.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 14, 2021	Feb. 09, 2022	Oct. 13, 2022	Conducted (TH01-KS)
Temperature &hu midity chamber	Hongzhan	LP-150U	H2014011 440	-40~+150°C 20%~95%RH	Jul. 12, 2021	Feb. 09, 2022	Jul. 11, 2022	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Ma x 30dBm	Oct. 16, 2021	Feb. 06, 2022	Oct. 15, 2022	Radiation (03CH02-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	Feb. 06, 2022	Oct. 29, 2022	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Jan. 26, 2022	Feb. 06, 2022	Jan. 25, 2023	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002 473	N/A	NCR	Feb. 06, 2022	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Feb. 06, 2022	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Feb. 06, 2022	NCR	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Apr. 12, 2021	Feb. 06, 2022	Apr. 11, 2022	Radiation (03CH02-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 21, 2021	Jan. 31, 2022	Apr. 20, 2022	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 14, 2021	Jan. 31, 2022	Oct. 13, 2022	Conduction (CO01-KS)
AC LISN	R&S	ENV216	100334	9kHz~30MHz	Oct. 14, 2021	Jan. 31, 2022	Oct. 13, 2022	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 14, 2021	Jan. 31, 2022	Oct. 13, 2022	Conduction (CO01-KS)

NCR: No Calibration Required



5. Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence	2.94dB
of 95% (U = 2Uc(y))	2.940B

Uncertainty of Radiated Emission Measurement (9 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.9dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence	5.0dB
of 95% (U = 2Uc(y))	3.00B

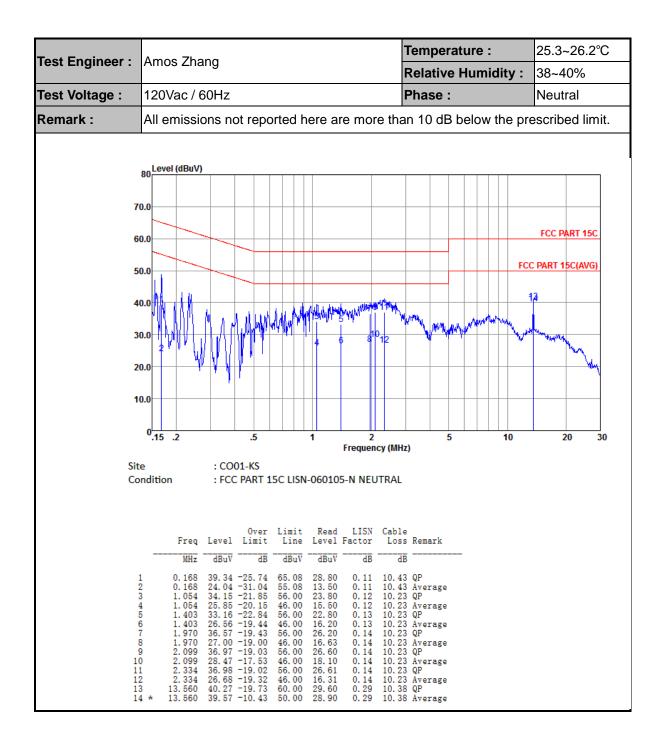
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Appendix A. Test Results of Conducted Emission Test

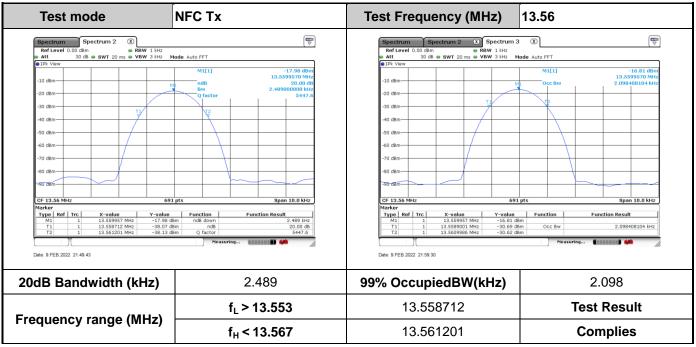
Toot Engineer	Amon Zho	na		Temperature :	25.3~26.2℃
Test Engineer :	Amos Zhang			Relative Humidity	38~40%
Test Voltage :	120Vac/6	60Hz		Phase :	Line
Remark :	All emission	ons not reporte	d here are mo	re than 10 dB below th	ne prescribed limit.
7 6 5 4 3 2 1 5 it	80 Level (dBuV) 0.0 0.0 0.0 0.0 0.0 0.0 2 0.0 0.0 0.0 0	.5 : CO01-KS		аланананананананананананананананананана	FCC PART 15C FCC PART 15C(AVG)
	Freq MHz		mit Read LISN ine Level Factor BuV dBuV dB	Cable Loss Remark 	
	1 0.175			10.42 QP	
1 1 1 1	$\begin{array}{ccccc} 4 & 0.286 \\ 5 & 1.216 \\ 6 & 1.216 \\ 7 & 1.456 \\ 8 & 1.456 \\ 9 & 2.371 \\ 0 & 2.371 \\ 1 & 2.527 \\ 2 & 2.527 \end{array}$	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10. 42 Average 10. 31 QP 10. 31 Average 10. 23 QP 10. 23 Average 10. 23 QP 10. 23 Average 10. 23 QP 10. 23 Average 10. 24 QP 10. 24 Average 10. 24 Average 10. 38 QP 10. 38 Average	







Appendix B. Test Results of Conducted Test Items



B1. Test Result of 20dB Spectrum Bandwidth

Remark: Because the measured signal is CW adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

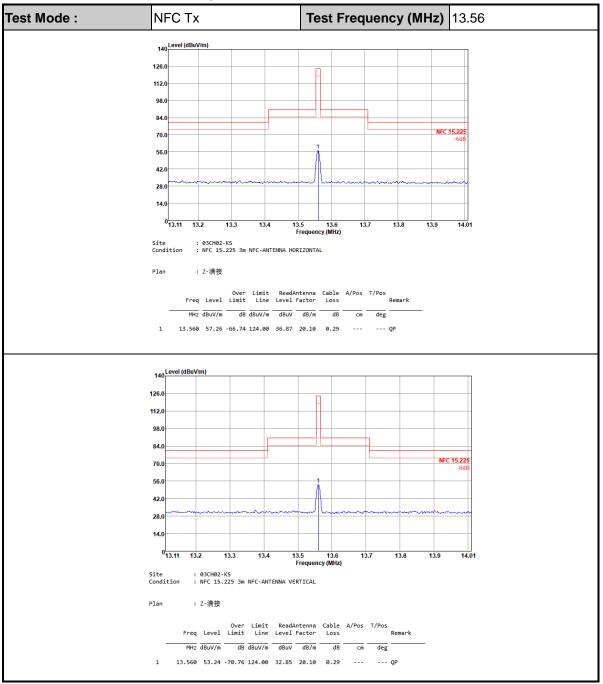


B2. Test Result of Frequency Stability

Voltage vs. Frequ	ency Stability	Temperature vs. Frequency Stability				
	Measurement	Tomporature (%)	Measurement			
Voltage (Vac)	Frequency (MHz)	Temperature (℃)	Frequency (MHz)			
120	13.559943	-20	13.559950			
102	13.559943	-10	13.559950			
138	13.559943	0	13.559950			
		10	13.559950			
		20	13.559950			
		30	13.559950			
		40	13.559943			
		50	13.559943			
Max.Deviation (MHz)	-0.000058	Max.Deviation (MHz)	-0.000058			
Max.Deviation (ppm)	-4.2404	Max.Deviation (ppm)	-4.2404			
Limit	FS < ±100 ppm	Limit	FS < ±100 ppm			
Test Result	PASS	Test Result	PASS			



Appendix C. Test Results of Radiated Test Items



C1. Test Result of Field Strength of Fundamental Emissions

Note:

- 1. Level(dBµV/m) = Read Level(dBµV) + Antenna Factor(dB/m) + Cable Loss(dB)
- 2. Over Limit(dB) = Level(dB μ V/m) Limit Line(dB μ V/m)



C2. Results of Radiated Spurious Emissions (9 kHz~30MHz)

Test Mode :	: N	FC Tx		Polariz	ation :	Hor	Horizontal		
					,				
Frequency	Level	Over	Limit	Read	Antenna	Cable	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Pos	Pos	
(MHz)	(dBµV/n	n) (dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(cm)	(deg)	
0.04989	52.38	-61.26	113.64	31.29	21	0.09	-	-	Average
0.08429	44.92	-64.16	109.08	24.63	20.2	0.09	-	-	Average
0.35535	53.41	-43.16	96.57	32.62	20.7	0.09	-	-	Average
2.348	41.66	-27.88	69.54	20.74	20.81	0.11	-	-	QP
12.709	34.81	-34.73	69.54	14.38	20.15	0.28	-	-	QP
28.385	32.69	-36.85	69.54	12.66	19.51	0.52	-	-	QP

Test Mode :	: NF	C Tx		Polariz	Polarization : Vertical				
			1				1	1	
Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Ant Pos	Table Pos	Remark
(MHz)	(dBµV/m		(dBµV/m)	(dBµV)	(dB)	(dB)	(cm)	(deg)	
0.04961	45.44	-68.24	113.68	24.35	21	0.09	-	-	Average
0.07442	41.62	-68.54	110.16	20.93	20.6	0.09	-	-	Average
0.2314	52.79	-47.51	100.3	32.21	20.49	0.09	-	-	Average
3.746	37.90	-31.64	69.54	17.3	20.46	0.14	-	-	QP
9.853	34.07	-35.47	69.54	13.55	20.29	0.23	-	-	QP
29.78	32.71	-36.83	69.54	12.5	19.67	0.54	-	-	QP

Note:

- 1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 2. Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
- 3. Limit line = specific limits $(dB\mu V)$ + distance extrapolation factor.



Results of Radiated Spurious Emissions (30MHz~1GHz)

Test Mode	est Mode : NFC Tx			Polarizati	ion :	Horizon	Horizontal			
Frequency	Level		Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/r	n) (dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
30	21.8	-18.2	40	28.14	25.1	0.76	32.2	-	-	Peak
96.93	23.15	-20.35	43.5	38.23	15.71	1.41	32.2	-	-	Peak
144.46	25.02	-18.48	43.5	38.04	17.32	1.77	32.11	-	-	Peak
164.83	26.12	-17.38	43.5	40.25	16.1	1.87	32.1	-	-	Peak
192.96	30.27	-13.23	43.5	45.44	14.89	2.04	32.1	-	-	Peak
417.03	30.18	-15.82	46	37.09	22.32	3.04	32.27	-	-	Peak

Test Mode : NFC Tx				Polarization :		Vertical				
Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB)	(dB)	(dB)	(cm)	(deg)	
47.46	30.18	-9.82	40	45.54	15.87	0.97	32.2	-	-	Peak
59.1	27.76	-12.24	40	46.67	12.15	1.06	32.12	-	-	Peak
94.02	24.39	-19.11	43.5	39.93	15.32	1.36	32.22	-	-	Peak
192.96	26.68	-16.82	43.5	41.85	14.89	2.04	32.1	-	-	Peak
313.24	26.85	-19.15	46	36.84	19.53	2.61	32.13	-	-	Peak
353.01	28.03	-17.97	46	36.88	20.59	2.77	32.21	-	-	Peak

Note:

- 1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 2. Emission level (dB μ V/m) = 20 log Emission level (μ V/m).
- 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor= Level.