TEST REPORT

No. I22N00887-NFC

for

Shenzhen Tinno Mobile Technology Corp.

Smart Phone

Model Name: U668AA/U668AC

with

Hardware Version: V1.0

Software Version: U668AAV01.11.10/U668ACV01.03.10

FCC ID: XD6U668AA

Issued Date: 2022-06-07

Designation Number: CN1210

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

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1. Summary of Test Report

1.1. Test Items

Description	Smart Phone
Model Name	U668AA/U668AC
Applicant's name	Shenzhen Tinno Mobile Technology Corp.
Manufacturer's Name	Shenzhen Tinno Mobile Technology Corp.

1.2. Test Standards

FCC CFR 47, Part 15, Subpart C 2019

1.3. Test Result

Pass

Please refer to "5.2. Test Results"

1.4. Testing Location

Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China

1.5. Project data

Testing Start Date:	2022-05-07
Testing End Date:	2022-05-31

1.6. Signature

Lin Zechuang

(Prepared this test report)

An Ran

(Reviewed this test report)

Zhang Bojun

(Approved this test report)

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2. Client Information

2.1. Applicant Information

Company Name:	Shenzhen Tinno Mobile Technology Corp.
Address:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen ,PRC
Contact Person	xiaoping.li
E-Mail	xiaoping.li@tinno.com
Telephone:	0755-86095550
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2.2. Manufacturer Information

Company Name:	Shenzhen Tinno Mobile Technology Corp.
Address:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen ,PRC
Contact Person	xiaoping.li
E-Mail	xiaoping.li@tinno.com
Telephone:	0755-86095550
Fax:	0755-86095551

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3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Smart Phone
Model Name	U668AA/U668AC
Frequency	13.56MHz
Antenna type	Integrated antenna
Extreme Temperature	/
Operation Voltage	3.5VDC to 4.4VDC (nominal: 3.85VDC)
Power source	Battery
FCC ID	XD6U668AA
Condition of EUT as received	No abnormality in appearance

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Shenzhen Academy of Information and Communications Technology.

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Receive Date
UT03aa	866415060009084	V1.0	U668AAV01.11.10/ U668ACV01.03.10	2022-04-26
UT07aa	866415060014316	V1.0	U668AAV01.11.10/ U668ACV01.03.10	2022-05-12

*EUT ID: is used to identify the test sample in the lab internally.
UT03aa is used for conduction test, UT07aa is used for radiation test and Conducted Emission test.

3.3. Internal Identification of AE used during the test

AE ID*	Description	SN
AE1	Power Supply	/
AE2	NFC Card	/
AE3	Battery	/
AE4	Charger	/
AE5	USB Cable	/

AE1/AE2

/

AE3

Model	386786
Manufacturer	Guangdong Fenghua New Energy Co., Ltd.
Capacity	3900mAh
Nominal Voltage	3.85V

AE4

Model	TN-050200U3

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Manufacturer Dong Guan City GangQi Electronic Co., Ltd.

AE5-1

Model 336275

Manufacturer SUNTOPS ELECTRONICS CO.,LTD

AE5-2

Model T365-011B-1

Manufacturer Shenzhen Yihuaxing Electronics Co. Ltd.

*AE ID: is used to identify the test sample in the lab internally.

3.4. General Description

Equipment under Test (EUT) is a model of Smart Phone with FPC+ferrite antenna and battery.
It consists of normal options: Lithium Battery, Charger and USB Cable.
Manual and specifications of the EUT were provided to fulfil the test.
Samples undergoing test were selected by the client.

3.5. EUT Set-ups

EUT Set-up No.	Combination of EUT and AE	Remarks
Set. NFC01	EUT+AE1+AE2	NFC RF, TX test
Set. NFC02	EUT+AE1	NFC RF, RX test

CE_test.apk is installed in the EUT which helps to control the NFC signal transmitting.
The Transmit State of NFC: the NFC function is on. The EUT will transmit the NFC data and command continuously during the test.
The Transmit State without modulation: The EUT will transmit the CW signal at the operating frequency.

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4. Reference Documents

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
CFR 47 Part 15	FCC CFR 47,Part 15,Subpart C	2019
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013
ANSI C63.4	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.	2014

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5. Test Results

5.1. Testing Environment

Normal Temperature: 15~35°C

Relative Humidity: 20~75%

5.2. Test Results

No	Test Cases	Clause in Regulation	Section in This Report	Verdict
1	Electric Field Strength of Fundamental Emissions	CFR 47 § 15.225(a)	A.1	**P**
2	Electric Field Strength of Outside the Allocated Bands	CFR 47 § 15.225(b) CFR 47 § 15.225(c)		**P**
3	Electric Field Radiated Emissions	CFR 47 § 15.209	A.2	**P**
		CFR 47 § 15.225(d)	A.3	**P**
4	Frequency Tolerance	CFR 47 § 15.225(e)	A.4	**P**
5	20dB Bandwidth	CFR 47 § 15.215(c)	A.5	**P**
6	Conducted Emissions	CFR 47 § 15.207	A.6	**P**
The measurement is carried out according to ANSI C63.10 and ANSI C63.4. See **ANNEX A** for details.				

5.3. Statements

The test cases listed in Section 5.2 of this report for the EUT specified in Section 3 were performed by SAICT according to the reference documents in Section 4.

The EUT meets all applicable requirements of the regulations and standards in Section 4.2.

This report only deals with the NFC function among the features described in section 3.

Disclaimer:

A. After confirmation with the customer, the sample information provided by the customer may affect the validity of the measurement results in this report, and the impact and consequences arising therefrom shall be borne by the customer.

B. The samples in this report are provided by the customer, and the test results are only applicable to the samples received.

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6. Test Equipments Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Vector Signal Analyzer	FSV40	100903	Rohde & Schwarz	2022-12-29	1 year
2	DC Power Supply	NGSM	5425	Rohde & Schwarz	2022-11-07	1 year
3	Test Receiver	ESCI	100701	Rohde & Schwarz	2023-01-12	1 year
4	LISN	ENV216	102067	Rohde & Schwarz	2022-07-15	1 year

Climate chamber

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Climate chamber	SU-242	93008165	ESPEC	2023-03-13	1 year

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1	Test Receiver	ESR7	101676	Rohde & Schwarz	2022-11-24	1 year
2	BiLog Antenna	3142E	0224831	ETS-Lindgren	2024-05-27	3 years
3	Horn Antenna	3117	00066585	ETS-Lindgren	2025-03-15	3 years
3	Loop Antenna	HLA6120	35779	TESEQ	2025-05-12	3 years
4	Chamber	FACT3-2.0	1285	ETS-Lindgren	2023-05-29	2 years

Test software

No.	Equipment	Manufacturer	Version
1	RF Test System	Tonscend	2.6
2	EMC32	Rohde & Schwarz	10.50.40

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7. Laboratory Environment

Semi-anechoic chamber

Temperature	Min. = 15 ˚C, Max. = 35 ˚C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4Ω
Normalised site attenuation (NSA)	< ±4 dB, 3 m distance, from 30 to 1000 MHz

Shielded room

Temperature	Min. = 15 ˚C, Max. = 35 ˚C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-1000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4Ω

Fully-anechoic chamber

Temperature	Min. = 15 ˚C, Max. = 35 ˚C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4Ω
Voltage Standing Wave Ratio （VSWR）	≤ 6 dB, from 1 to 18 GHz， 3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

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ANNEX A: MEASUREMENT RESULTS

A.1. Electric Field Strength of Fundamental and Outside the Allocated bands

A.1.1. Reference

See CFR 47 § 15.225

A.1.2. Measurement Methods

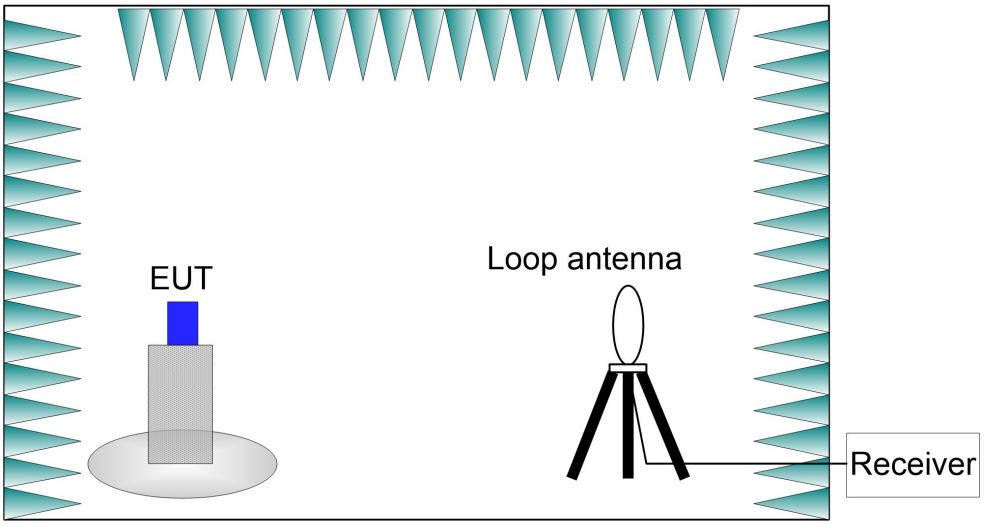
The transmitter carrier output levels (E-Field) from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The E-field is measured with a shielded loop antenna connected to a measurement receiver. Detected E-field was maximized by rotating the EUT through 360° and adjusting the receiving antenna polarizations. The maximization processes were repeated with the EUT positioned respectively in its three orthogonal axes. The measurements were performed with the peak detector and if required, the quasi-peak detector.

The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/VBW
12.56-14.56	10/30 kHz

The E-field measured at 3m is calculated as:

E-field (dBμV/m) = Rx (dBμV) + Cable Loss (dB) + AF@3m (dB/m)



A.1.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC (See 3.5).

The EUT is powered by a travel adapter.

During the measurements, the ambient temperature of the electromagnetic anechoic chamber is in the range of 15 ~ 25℃.

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A.1.4. Limits

Frequency Range (MHz)	E-field Strength Limit @ 30 m (μV/m)	E-field Strength Limit @ 3 m (dBμV/m)
13.560 ± 0.007	+15,848	124
13.410 to 13.553 13.567 to 13.710	+334	90
13.110 to 13.410 13.710 to 14.010	+106	81
Note: Where the limits have been defined at one distance, and a signal level measured at another, the limits have been extrapolated using the following formula: Extrapolation (dB) = 40 * $\log_{10}$(Measurement Distance / Specification Distance)		

A.1.5. Measurement Results

Measurement results of normal conditions see Figure A-1 for different set-ups of EUT. The result displayed take into account applicable antenna factors and cable losses.

Conclusions: PASS.

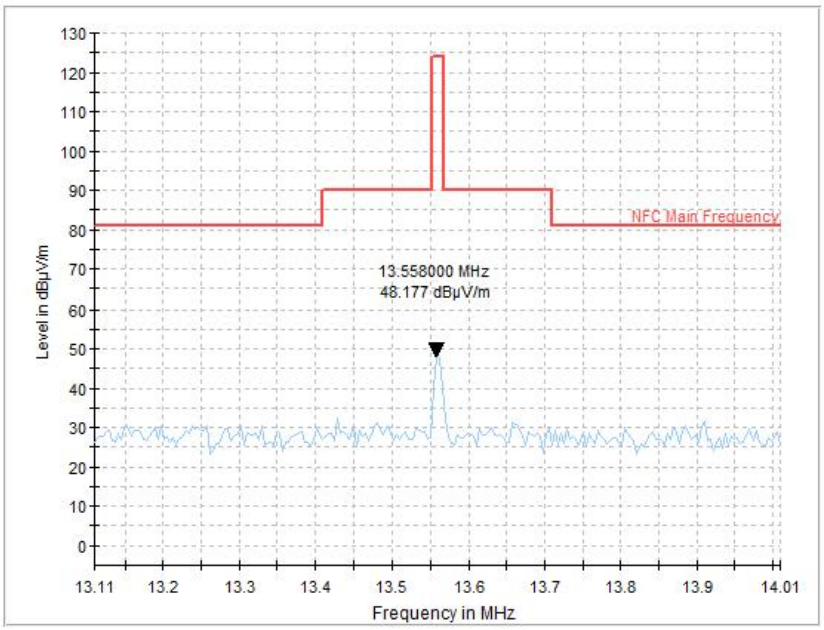

Figure A-1 Electric Field Strength

A.1.6. Measurement Uncertainty

Measurement uncertainty: U = 1.79 dB, k=2.

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A.2. Electric Field Radiated Emissions (<30MHz)

A.2.1. Reference

See CFR 47 § 15.209
See CFR 47 § 15.225(d)

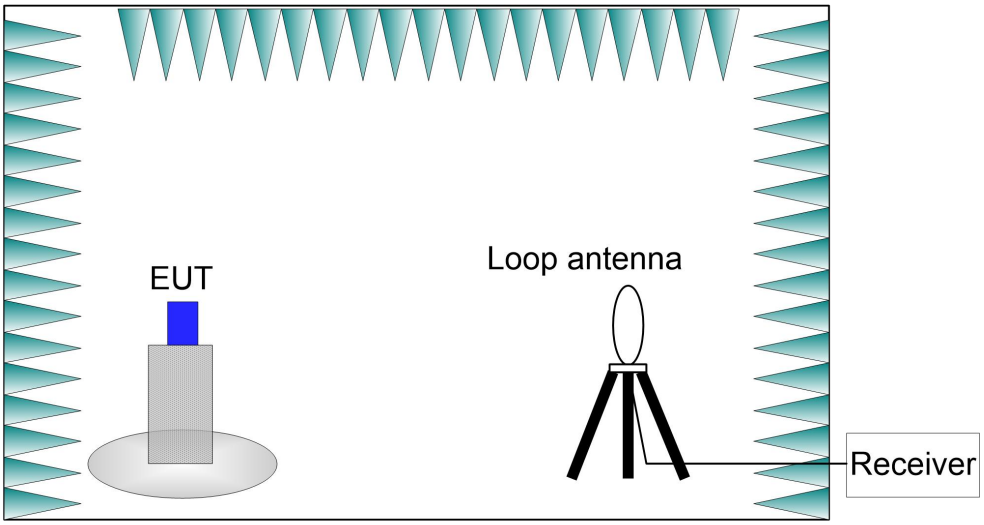
A.2.2. Measurement Methods

The transmitter carrier output levels (E-Field) from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The E-field is measured with a shielded loop antenna connected to a measurement receiver. Detected E-field was maximized by rotating the EUT through 360° and adjusting the receiving antenna polarizations. The maximization processes were repeated with the EUT positioned respectively in its three orthogonal axes. The measurements were performed with the peak detector and if required, the quasi-peak detector.

The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/VBW
0.009-0.15	100/300 Hz
0.15-30	10/30 kHz

The E-field measured at 3m is calculated as:
E-field (dBμV/m) = Rx (dBμV) + Cable Loss (dB) + AF@3m (dB/m)



A.2.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC (See 3.5).
The EUT is powered by a travel adapter.
During the measurements, the ambient temperature of the electromagnetic anechoic chamber is in the range of 15 ~ 25℃.

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A.2.4. Limits

Frequency Range (MHz)	E-field Strength Limit @ 30m (μV/m)	E-field Strength Limit @ 3m (dBμV/m)
0.009-0.490	2400/F(kHz)	129-94
0.490-1.705	24000/F(kHz)	74-63
1.705-30	30	70
Note: Where the limits have been defined at one distance, and a signal level measured at another, the limits have been extrapolated using the following formula: Extrapolation (dB) = 40 * $\log_{10}$(Measurement Distance / Specification Distance)		

A.2.5. Measurement Results

Measurement results of normal conditions see Figure A-2 for different set-ups of EUT. The result displayed take into account applicable antenna factors and cable losses.

Conclusions: PASS.

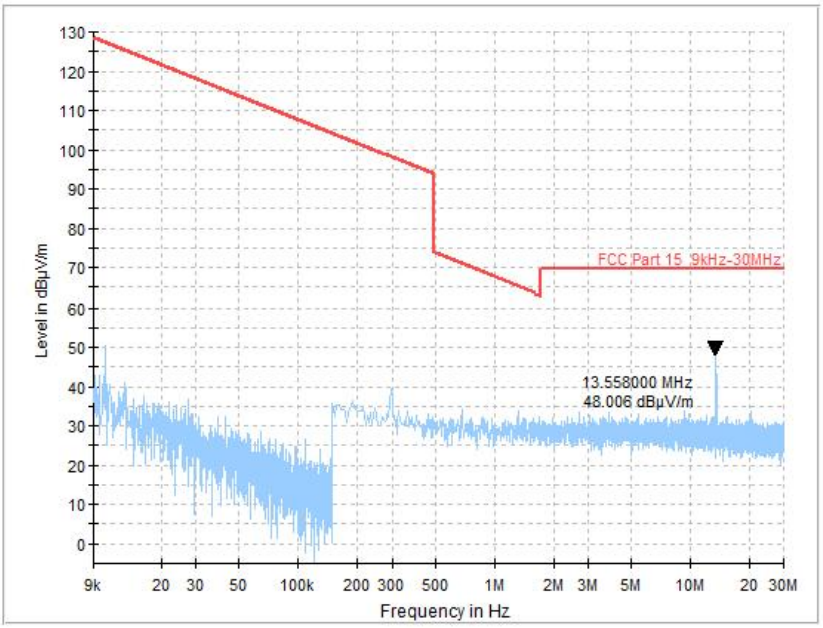

Figure A-2 Transmit State (9k-30M)

A.2.6. Measurement Uncertainty

Measurement uncertainty: U = 1.79 dB, k=2.

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A.3. Electric Field Radiated Emissions (≥30MHz)

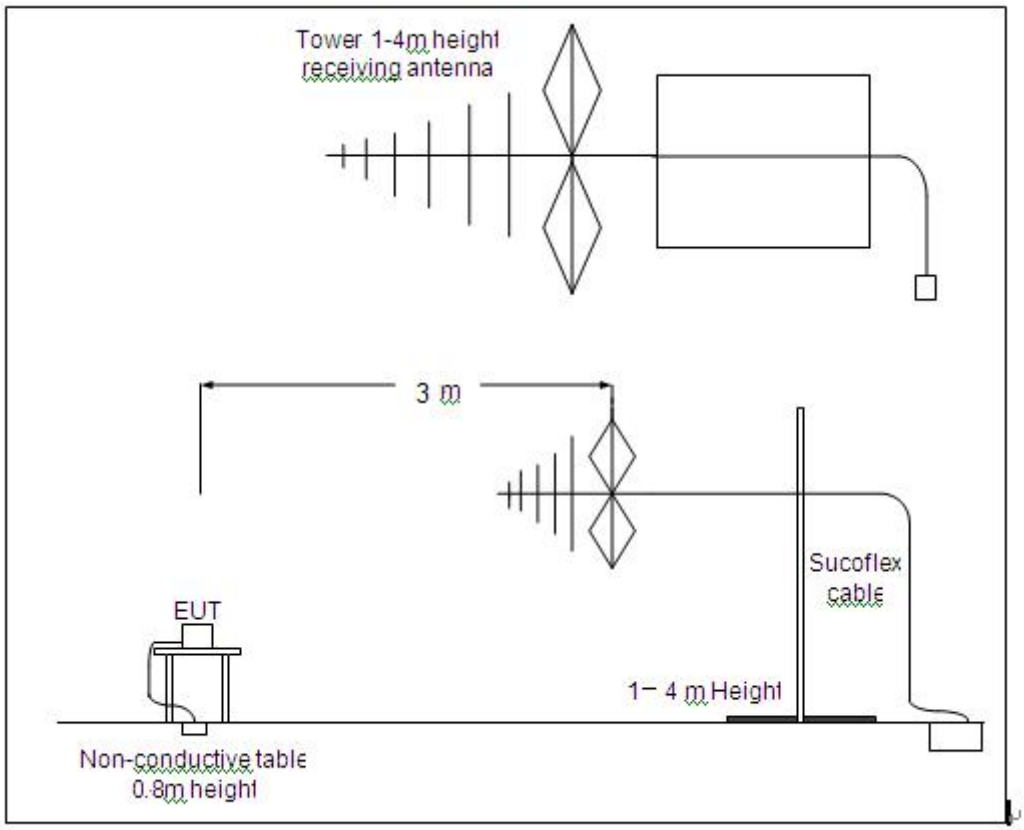
A.3.1. Reference

See CFR 47 § 15.209
See CFR 47 § 15.225(d)

A.3.2. Measurement Methods

The electric field radiated emissions from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The receiving antennas connected to a measurement receiver comply with the standard requirements. In order to search for maximum field strength emitted from the EUT, the receiving antenna can be moved between the height of 1.0 m to 4.0 m. Detected E-field was maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna positions for both vertical and horizontal antenna polarizations. The maximization processes were repeated with the EUT positioned respectively in its three orthogonal axes. The measurements were performed with the peak detector and if required, the quasi-peak detector.
The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/VBW
30-1000	120kHz



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A.3.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC (See 3.5).
EUT had been connected to a travel adapter.
During the measurements, the ambient temperature of the electromagnetic anechoic chamber is in the range of 15 ~ 25℃.

A.3.4. Limits

Frequency Range (MHz)	E-field Strength Limit @ 3m (μV/m)	E-field Strength Limit @ 3m (dBμV/m)	E-field Strength Limit @ 10m (dBμV/m)
30-88	100	40	30
88-216	150	43.5	33.5
216-960	200	46	36
960-1000	500	54	44

A.3.5. Measurement Results

Measurement results of normal conditions see Figure A-3 for different set-ups of EUT. The result displayed take into account applicable antenna factors and cable losses.
Conclusions: PASS.

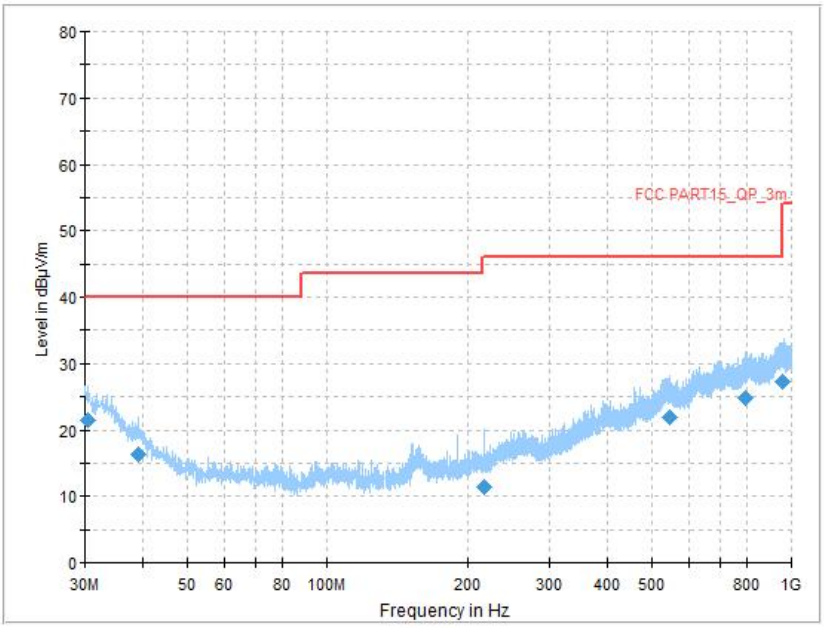

Figure A-3 Transmit State (30M-1G)

A.3.6. Measurement Uncertainty

Measurement uncertainty: U =4.86 dB, k=2

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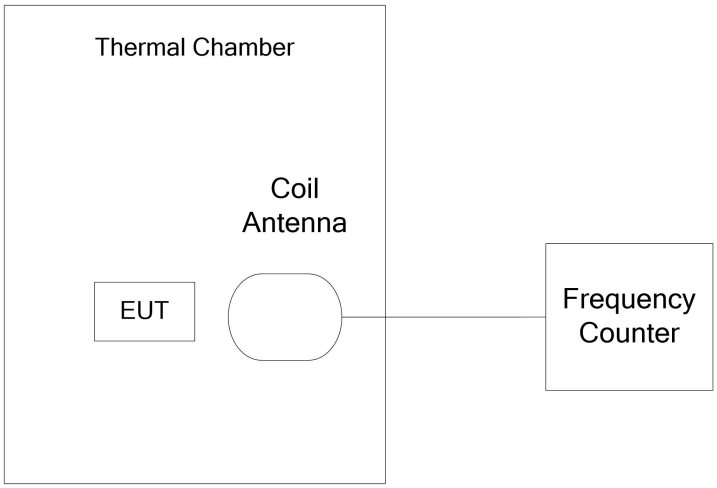
A.4. Frequency Tolerance

A.4.1. Reference

See CFR 47 § 15.225(e)

A.4.2. Measurement Methods



The transmitter output signal was picked up by coil antenna connected to the frequency counter. The center frequency was measured with 30Hz RBW and 1kHz span.

During the test, the EUT was placed in a thermal chamber until thermal balance and lasting appropriate time.

A.4.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of without modulation (See 3.5).

EUT had been not connected to a travel adapter.

Operation Temperature: T min, T nom, and T max with V nom.

Operation Voltage: V min and V max with T nom.

A.4.4. Test Layouts

See A.4.2.

A.4.5. Limits

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency.

A.4.6. Measurement Results

Measurement results see Table A-1 for different test conditions.

Conclusions: PASS.

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Table A-1: Frequency Stability VS Temperature and Voltage

Temperature	Voltage	Frequency Error (MHz)			
		Startup	2 Min Later	5 Min Later	10 Min Later
T min	V nom	13.559990	13.559991	13.559984	13.559989
T max	V nom	13.559981	13.559986	13.559987	13.559987
T nom	V nom	13.559985	13.559990	13.559990	13.559991
T nom	V min	13.559983	13.559985	13.559984	13.559983
T nom	V max	13.559990	13.559982	13.559984	13.559985

Temperature	Voltage	Frequency Error (%)			
		Startup	2 Min Later	5 Min Later	10 Min Later
T min	V nom	0.000	0.000	0.000	0.000
T max	V nom	0.000	0.000	0.000	0.000
T nom	V nom	0.000	0.000	0.000	0.000
T nom	V min	0.000	0.000	0.000	0.000
T nom	V max	0.000	0.000	0.000	0.000

Note: T min= -20℃, T max= 50℃, T nom ≈20℃, V min=3.27V, V max=4.43V, V nom=3.85V

A.4.7. Measurement Uncertainty

Measurement uncertainty: U =77 Hz, k=2

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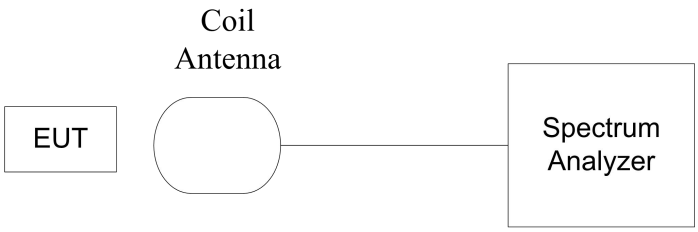
A.5. 20dB Bandwidth

A.5.1. Reference

See CFR 47 § 15.215(c)

A.5.2. Measurement Methods

The transmitter output signal was picked up by coil antenna to the spectrum analyzer.
The transmitter output signal was picked up by coil antenna connected to the spectrum analyzer. The bandwidth of the center frequency was measured with 100Hz RBW, 300Hz VBW and 10kHz span.



A.5.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC and without modulation (See 3.5).
EUT had been not connected to a travel adapter.
During the measurements, the ambient temperature is in the range of 15 ~ 25℃.

A.5.4. Test Layouts

See A.5.2.

A.5.5. Limits

The 20dB bandwidth shall be less than 80% of the permitted frequency band. For 13.56 MHz NFC, the permitted frequency band is 14 kHz, so the limit is 11.2 kHz.

A.5.6. Measurement Results

Measurement results see Figure A-4.
Conclusions: PASS.

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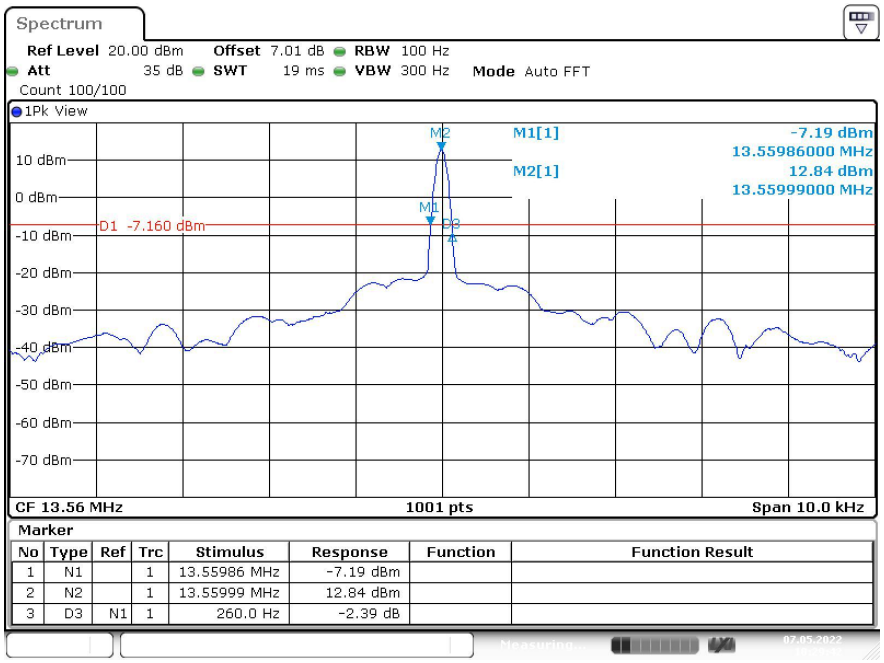

Figure A-4 20dB Bandwidth

A.5.7. Measurement Uncertainty

Measurement uncertainty: U =77 Hz, k=2

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A.6. Conducted emission

A.6.1. Reference

See CFR 47 § 15.207

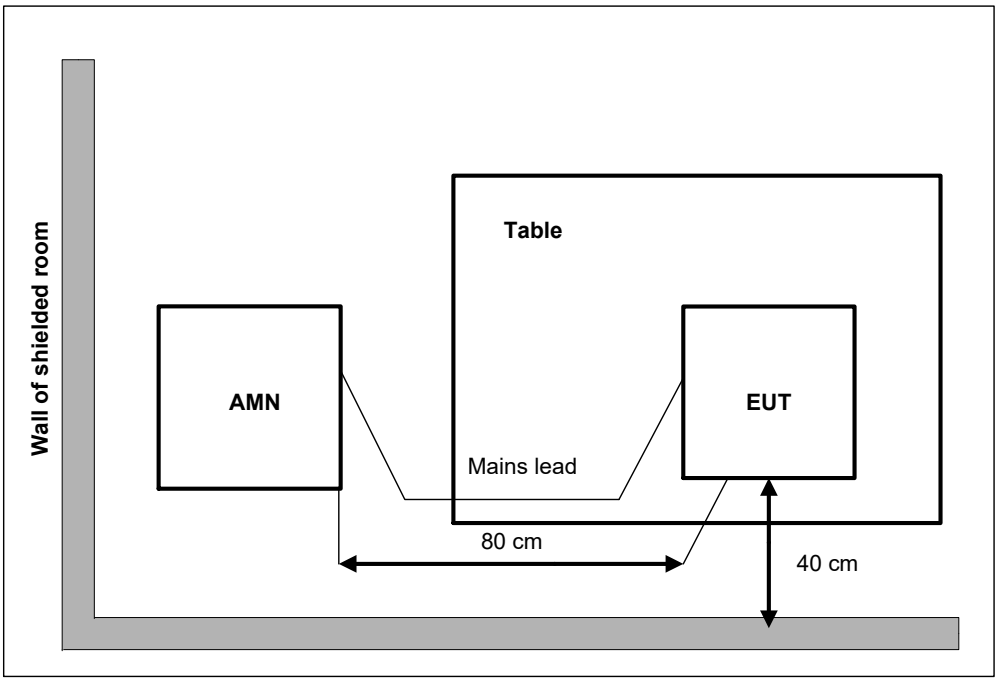
A.6.2. Measurement Methods

The conducted emissions from the AC port of the EUT are measured in a shielding room. The EUT is connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection was performed. The measurements were performed with a quasi-peak detector and if required, an average detector.

The conducted emission measurements were made with the following detector of the test receiver: Quasi-Peak / Average Detector.

The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/VBW
0.15-30	9kHz



A.6.3. EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state of NFC (See 3.5).

The EUT is powered by a travel adapter.

During the measurements, the ambient temperature is in the range of 15 ~ 25℃.

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A.6.4. Limits

Frequency range(MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)
0.15 to 0.5	66 to 56	56 to 46
0.5 to 5	56	46
5 to 30	60	50

A.6.5. Measurement Results

Measurement results see Figure A-5 and Figure A-6.

Conclusions: PASS.

Note: The measurement result at 13.56MHz is the fundamental emission of NFC signal.

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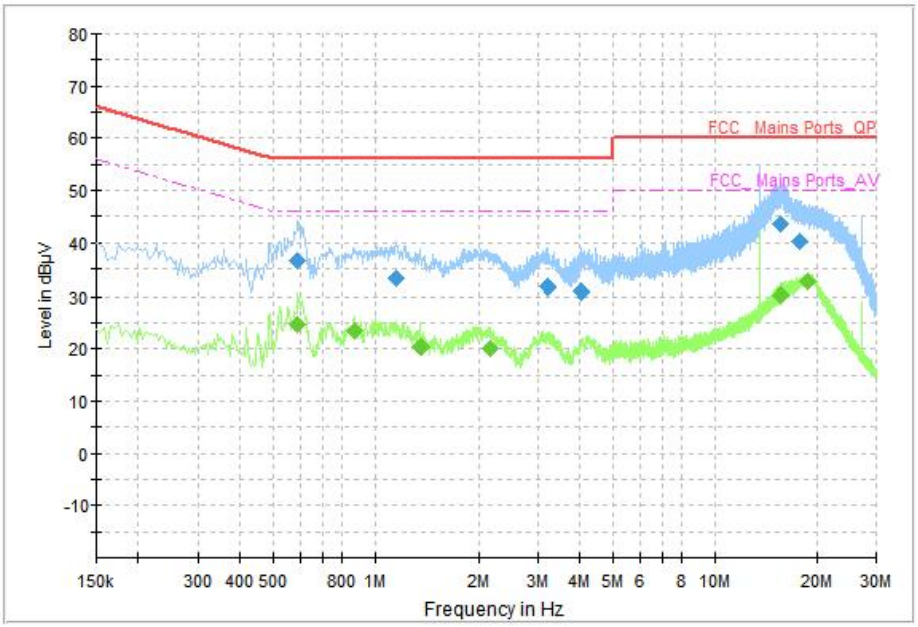

Figure A-5 Conducted Emission (Traffic)

Measurement Results: Quasi Peak

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.590000	36.63	56.00	19.37	N	ON	10
1.150000	33.25	56.00	22.75	N	ON	10
3.190000	31.59	56.00	24.41	N	ON	10
4.026000	30.86	56.00	25.14	N	ON	10
15.602000	43.76	60.00	16.24	N	ON	11
17.834000	40.30	60.00	19.70	N	ON	10

Measurement Results: Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.590000	24.69	46.00	21.31	N	ON	10
0.870000	23.29	46.00	22.71	N	ON	10
1.358000	20.27	46.00	25.73	L1	ON	10
2.166000	20.08	46.00	25.92	N	ON	10
15.714000	30.07	50.00	19.93	N	ON	11
18.822000	32.68	50.00	17.32	N	ON	10

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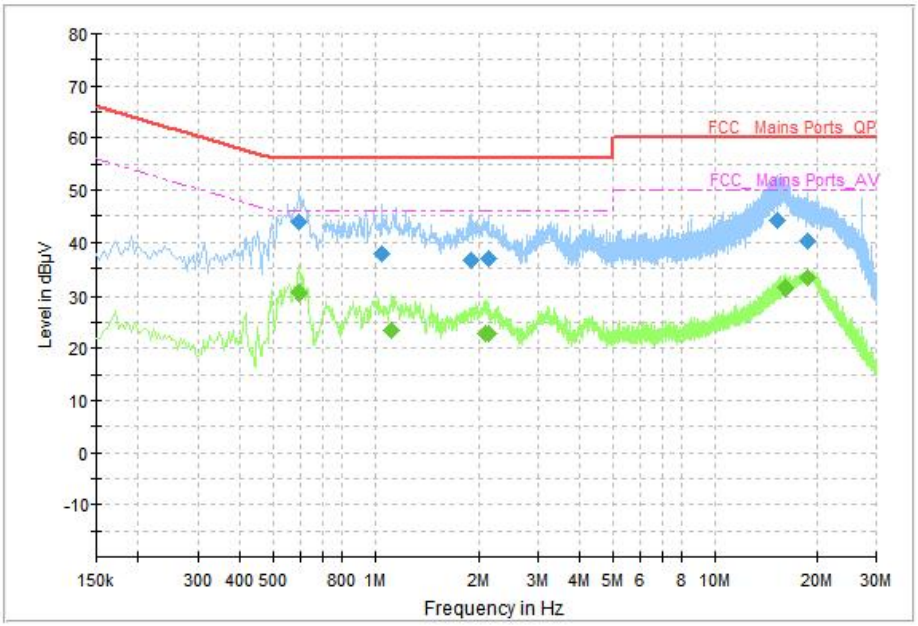

Figure A-6 Conducted Emission (Idle)

Measurement Results: Quasi Peak

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.598000	43.81	56.00	12.19	L1	ON	10
1.046000	37.75	56.00	18.25	N	ON	10
1.894000	36.61	56.00	19.39	N	ON	10
2.134000	36.96	56.00	19.04	L1	ON	10
15.242000	44.08	60.00	15.92	N	ON	11
18.774000	40.24	60.00	19.76	N	ON	10

Measurement Results: Average

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.594000	30.55	46.00	15.45	L1	ON	10
1.114000	23.31	46.00	22.69	L1	ON	10
2.102000	22.71	46.00	23.29	N	ON	10
2.134000	22.80	46.00	23.20	N	ON	10
16.094000	31.46	50.00	18.54	N	ON	11
18.894000	33.07	50.00	16.93	N	ON	10

A.6.6. Measurement Uncertainty

Measurement uncertainty: U = 2.62 dB, k=2

*****END OF REPORT*****

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