

TEST REPORT

No. I14Z45129-SRD01

for

Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd

GSM /WCDMA mobile phone

Model Name: Vodafone 888N

FCC ID: R38YLVODAFONE888N

with

Hardware Version: T3

Software Version: 4.4.212.00.T3.140317

Issued Date: Mar. 27th, 2014



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 TMC Beijing.

Test Laboratory:

CNAS accreditation (ISO/IEC 17025(CNAS-CL01)): No. CNAS L0442

FCC 2.948 Listed: No.733176
IC O.A.T.S listed: No.6629A-1

TMC Beijing, Telecommunication Metrology Center of Ministry of Industry and Information Technology

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CONTENTS

1.	TES	ST LABORATORY	3
1.	.1.	TESTING LOCATION	3
1.	.2.	TESTING ENVIRONMENT	3
1.	.3.	PROJECT DATA	3
1.	.4.	Signature	3
2.	CL	IENT INFORMATION	4
2.	.1.	APPLICANT INFORMATION	4
2.	.2.	Manufacturer Information	4
3.	EQ	UIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE)	5
3.	.1.	ABOUT EUT	5
3.	.2.	INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST	5
3.	.3.	INTERNAL IDENTIFICATION OF AE USED DURING THE TEST	
3.	.4.	GENERAL DESCRIPTION	
3.	.5.	EUT SET-UPS	6
4.	RE	FERENCE DOCUMENTS	7
4.	.1.	DOCUMENTS SUPPLIED BY THE APPLICANT	7
4.	.2.	REGULATIONS AND STANDARDS	7
5.	LA	BORATORY ENVIRONMENT	8
6.	SUI	MMARY OF TEST RESULTS	9
6.	.1.	SUMMARY OF TEST RESULTS	9
6.	.2.	TERMS USED IN THE SUMMARY OF TEST RESULTS	0
6.	.3.	STATEMENTS	0
7.	TES	ST EQUIPMENTS UTILIZED1	1
ANI	NEX	A: MEASUREMENT RESULTS1	2
Α	.1. E	LECTRIC FIELD STRENGTH OF FUNDAMENTAL AND OUTSIDE THE ALLOCATED BANDS	2
Α	.2. E	ELECTRIC FIELD RADIATED EMISSIONS (< 30MHz)1	4
Α	.3. E	LECTRIC FIELD RADIATED EMISSIONS (≥30MHz)1	6
Α	.4. F	REQUENCY TOLERANCE	8
Α	.5. 2	0dB Bandwidth	9
Α	.6. C	CONDUCTED EMISSION	1
ANI	NEX	B: EUT PHOTOGRAPH	5



1. Test Laboratory

1.1. <u>Testing Location</u>

Company Name:

TMC Beijing, Telecommunication Metrology Center of MIIT

Address:

No 52, Huayuanbei Road, Haidian District, Beijing, P.R.China

Postal Code:

100191

Telephone:

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1.2. Testing Environment

Ambient Temperature:

15 ~ 25 °C

Relative Humidity:

30 ~ 60 %

Air pressure

860 ~ 1060 mbar

1.3. Project Data

Receipt of Sample:

Jan. 20th, 2014

Testing Start Date:

Jan. 24th, 2014

Testing End Date:

Mar. 15th, 2014

1.4. Signature

Hu Xiaoyu

(Prepared this test report)

Yang Jun

(Reviewed this test report)

Wang Hongbo

Deputy Director of the laboratory (Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd

Hi-Tech Industry Park(North), Nanshan District, Shenzhen

Address /Post: City,Guangdong Province,P.R.C

City: Shen Zhen Country: China

Telephone: +86 18617029616 Fax: +86 18617029616

2.2. Manufacturer Information

Company Name: Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd

Hi-Tech Industry Park(North), Nanshan District, Shenzhen

Address /Post: City,Guangdong Province,P.R.C

City: Shen Zhen Country: China

Telephone: +86 18617029616 Fax: +86 18617029616



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

3.1. About EUT

Description:	GSM/WCDMA mobile phone
Type	Vodafone 888N
FCC ID	R38YLVODAFONE888N
With NFC Function:	Yes
Frequency:	13.56 MHz
Antenna:	Internal
Operation Voltage:	3.5VDC to 4.2VDC (nominal: 3.7VDC)
Operation Temperature:	-20°C to +55°C

Note1: Photographs of EUT are shown in ANNEX B of this test report. For component list, please refer to documents of the manufacturer.

Note2: High and low voltage values of extreme conditions are given by the manufacturer.

3.2. Internal Identification of EUT Used during the Test

Mobile phone identification

EUT ID* IMEI HW Version SW Version

EUT1 359731050005849 T3 4.4.212.00.T3.140317

3.3. Internal Identification of AE Used during the Test

AE ID*	Description	SN	Revision	
AE1	Travel Charger	CPCY13480005077	/	
AE2	USB Cable	1445129DC004	/	
AE3	Type A CARD	/	/	
AE1				
Commercia	al name	CYSK05		
Туре		050100A		
Length of cable		98.5 cm (length of USB cable)		
AE2				
Commercial name		/		
Type		/		
Length of cable		98.5 cm		
AE3				
Type		/		
Manufacturer		Gemalto		

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

^{*}EUT ID: is used to identify the test sample in the lab internally.



3.4. General Description

Equipment Under Test (EUT) is a model of GSM/WCDMA mobile phone with integrated antenna. It supports GSM900/1800 bands, WCDMA Bands 1/8. It also supports GPRS service with multi-slots class12 and EGPRS class12. The USAT,HSUPA and HSPA+ services are also supported.

It has MP3, Camera, FM radio, USB memory, Bluetooth (BLE and EDR), Wi-Fi (802.11b/g/n, 802.11n supports 20MHz bandwidth), NFC and GPS functions.

It consists of normal options: lithium battery, charger and headset.

Manuals and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.

Manufacturer's declaration: NFC work does not depend on other access methods, such as WLAN, GPRS, etc.

3.5. EUT Set-ups

EUT Set-up No.	Combination of EUT and AE	Remarks
Set. NFC01	EUT1 + AE1 + AE2 + AE3	
Set. NFC02	EUT1	
Set. NFC03	EUT1 + AE3	

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 of without modulation: The EUT will transmit the CW signal at the operating frequency.



4. Reference Documents

4.1. Documents Supplied by the Applicant

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

4.2. Regulations and Standards

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

Reference	Title	Version
CFR 47 Part 2	Part 2 — Frequency Allocations and Radio Treaty Matters;	2013
	General Rules and Regulations.	
CFR 47 Part 15	Part 15 — Radio Frequency Devices.	2013
	Subpart C — Intentional Radiators.	
	§ 15.35 Measurement detector functions and bandwidths.	
	§ 15.207 Conducted limits.	
	§ 15.209 Radiated emission limits, general requirements.	
	§ 15.215 Additional provisions to the general radiated	
	emission limitations.	
	§ 15.225 Operation within the band 13.110–14.010 MHz.	
ANSI C63.4	American National Standard for Methods of Measurement	2009
	of Radio-Noise Emissions from Low-Voltage Electrical and	
	Electronic Equipment in the Range of 9 kHz to 40 GHz.	



5. LABORATORY ENVIRONMENT

Semi-anechoic chamber SAC-1 (23 meters × 17meters × 10meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 15 %, Max. = 75 %
Shielding effectiveness	0.014MHz - 1MHz, >60dB;
	1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4Ω
Normalised site attenuation (NSA)	< ± 4 dB, 3m/10m distance,
	from 30 to 1000 MHz
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 3000 MHz

Fully-Anechoic Chamber FAC-3 (8.6m×6.1m×3.85m) did not exceed following limits along the testing:

g-	
Temperature	Min. = 15 °C, Max. = 25 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2 MΩ
Ground system resistance	<1 Ω
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1 to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 4000 MHz

Conducted Chamber did not exceed following limits along the testing:

Temperature	Min. = 15 °C, Max. = 25 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2 MΩ
Ground system resistance	< 0.5 Ω

Control Room did not exceed following limits along the testing:

Temperature	Min. = 15 °C, Max. = 25 °C	
Relative humidity	Min. =30 %, Max. = 60 %	
Shielding effectiveness	> 110 dB	
Electrical insulation	> 2 MΩ	
Ground system resistance	< 0.5 Ω	



6. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

No	Test Cases	Clause in Regulation	Section in This Report	Verdict
	Electric Field Strength of	CFR 47 § 15.225(a)	A.1	P(Set. NFC03)
ļ	Fundamental Emissions			
2	Electric Field Strength of	CFR 47 § 15.225(b)		P(Set. NFC03)
2	Outside the Allocated Bands	CFR 47 § 15.225(c)		
3	Electric Field Radiated	CFR 47 § 15.209	A.2	P(Set. NFC01)
3	Emissions	CFR 47 § 15.225(d)	A.3	P(Set. NFC01)
4	Frequency Tolerance	CFR 47 § 15.225(e)	A.4	P(Set. NFC02)
F	20dB Bandwidth	CFR 47 § 15.215(c)	A.5	P(Set. NFC02,
5				03)
6	Conducted Emissions	CFR 47 § 15.207	A.6	P(Set. NFC01)
The measurement is carried out according to ANSI C63.4. See ANNEX A for details.				

Test Conditions:

For this report, all the test cases listed above were tested under normal Temperature, Voltage, Humidity, and Air Pressure. The specific conditions are as following:

	T min	-30 °C
Temperature	T nom	20 °C
	T max	50 °C
	V min	3.5 V
Voltage	V nom	3.7 V
	V max	4.2 V
Humidity	H nom	44%
Air Pressure	A nom	1010 mbar



6.2. Terms Used in the Summary of Test Results

Terms Used in Condition Column:

T nom	Normal Temperature
T min	Low Temperature
T max	High Temperature
V nom	Normal Voltage
V min	Low Voltage
V max	High voltage
H nom	Norm Humidity
A nom	Norm Air Pressure

Terms Used in Verdict Column:

Р	Pass, The EUT complies with the essential requirements in the standard.
NP	Not Perform, The test was not performed by TMC
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

Abbreviations:

AC	Alternating Current
AFH	Adaptive Frequency Hopping
BW	Band Width
E.I.R.P.	equivalent isotropical radiated power
ISM	Industrial, Scientific and Medical
RF	Radio Frequency
Tx	Transmitter

6.3. Statements

The test cases listed in Section 6.1 of this report for the EUT specified in Section 3 were performed by TMC 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.



7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE
1.	Climate chamber	WK3-340/70	58226117510010	WEISS	2014-03-30
2.	Spectrum Analyzer	RSA3408A	B 010277	Tektronix	2014-05-27
3.	H-field Antenna	HFH2-Z2	829324/0007	R&S	2014-07-02
4.	Test Receiver	ESCI 7	100948	R&S	2014-07-18
5.	Spectrum Analyzer	FSV	101047	R&S	2014-06-30
6.	EMI Antenna	3115	6914	ETS-Lindgren	2014-12-16
7.	LISN	ESH2-Z5	829991/012	R&S	2014-04-14
8.	Universal Radio Communication Tester	CMU200	109914	R&S	2014-04-18
9.	Vector Signal Generator	SMU200A	102082	R&S	2014-11-01



ANNEX A: MEASUREMENT RESULTS

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

A.1.1. Reference

See Clause 13.5, Clause 13.4, Clause 8, and Annex E of ANSI C63.4-2009 specifically. See Clause 4, Clause 5, and Clause 6 of ANSI C63.4-2009 generally.

A.1.2. Measurement Methods

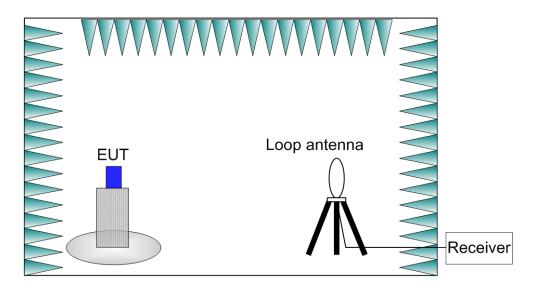
The transmitter carrier output levels (E-Field) from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The E-field 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 $(dB\mu V/m) = Rx (dB\mu V) + Cable Loss (dB) + AF@3m (dB/m)$



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 $15 \sim 25$ °C.

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	+334	90	
13.567 to 13.710	+334	90	
13.110 to 13.410	+106	91	
13.710 to 14.010	+100	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: Set. NFC03, PASS.

RE_FCC_NFC Main Frequency_13.110MHz-14.010MHz

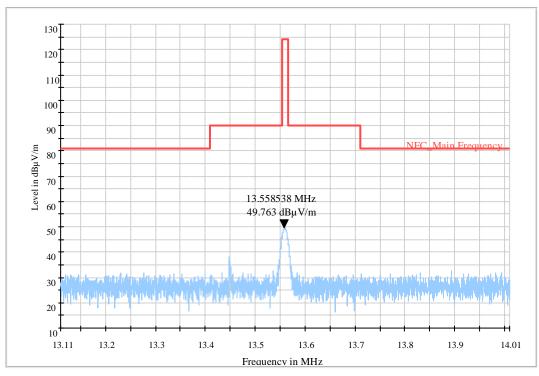


Figure A-1: Set. NFC03

A.1.6. Measurement Uncertainty

Measurement uncertainty: U = 4.0 dB, k=2.



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

A.2.1. Reference

See Clause 13.4, Clause 8 and Annex E of ANSI C63.4-2009 specifically. See Clause 4, Clause 5, and Clause 6 of ANSI C63.4-2009 generally.

A.2.2. Measurement Methods

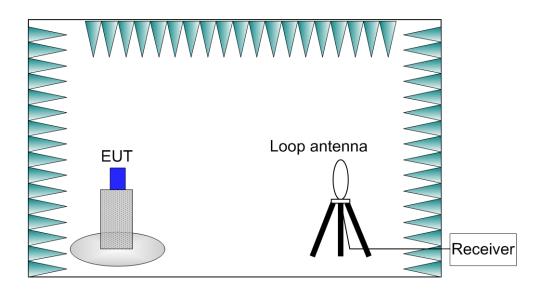
The transmitter carrier output levels (E-Field) from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The E-field 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 $(dB\mu V/m) = Rx (dB\mu V) + Cable Loss (dB) + AF@3m (dB/m)$



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 ©Copyright. All rights reserved by TMC Beijing.



in the range of $15 \sim 25$ °C.

A.2.4. Limits

Frequency Range (MHz)	E-field Strength Limit @ 30m	E-field Strength Limit @ 3m	
Frequency Kange (wiriz)	(mV/m)	(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:

 $Extrapolation(dB) = 40log_{10} (Measurement Distance/Specification Distance)$

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: Set. NFC01, PASS.



RE_FCC_NFC_9k-30MHz

Figure A-2: Set. NFC01

500

Frequency in Hz

1M

2M 3M

200 300

A.2.6. Measurement Uncertainty

20

0

20 30

100k

10M

20 30M



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

A.3.1. Reference

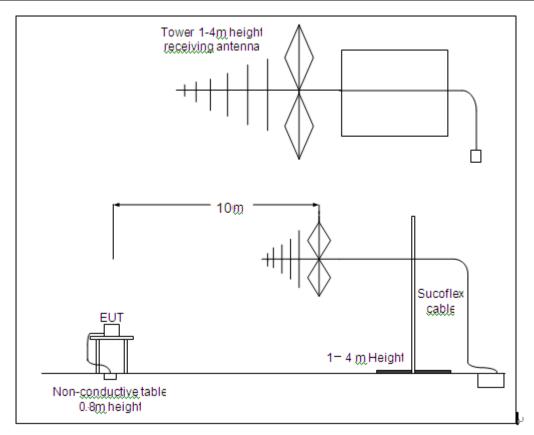
See Clause 13.4, Clause 8, and Annex E of ANSI C63.4-2009 specifically. See Clause 4, Clause 5, and Clause 6 of ANSI C63.4-2009 generally.

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 10m from the receiving antenna. The receiving antennas connected to a measurement receiver comply with Clause 15 of ANSI C63.2-1996 and Clause 4.1.5 of ANSI C63.4-2009. 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



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).

EUT1 had been connected to a travel adapter.

During the measurements, the ambient temperature of the electromagnetic anechoic chamber is in the range of $15 \sim 25$ °C.

A.3.4. Limits

Frequency Range (MHz)	E-field Strength Limit @ 3m (mV/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

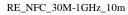
A.3.5. Measurement Results

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: Set. NFC01, PASS.

A.3.6. Measurement Uncertainty

Measurement uncertainty: U = 3.9 dB, k=2



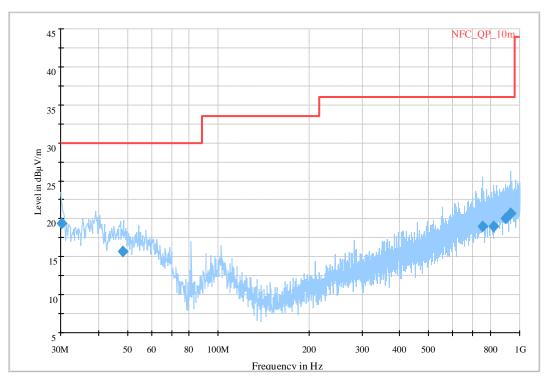


Figure A-3: Set. NFC01 Figure A-4:



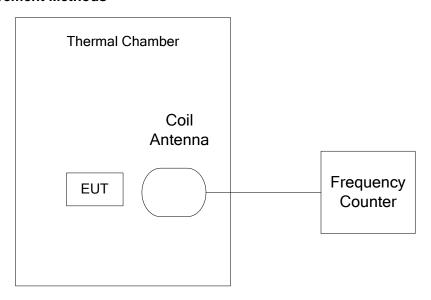
Frequency	QuasiPeak	Height	Polarization	Azimuth	Corr.	Margin	Limit	Comment
30.120000	19.3	185.0	v	155.0	-21.9	10.7	30.0	
48.070000	15.7	175.0	v	150.0	-19.4	14.3	30.0	
754.462500	19.0	393.0	٧	210.0	-8.8	17.0	36.0	
817.755000	18.9	175.0	v	210.0	-8.6	17.1	36.0	
899.122500	20.0	284.0	٧	188.0	-7.4	16.0	36.0	
935.862500	20.7	175.0	v	150.0	-6.9	15.3	36.0	

A.4. Frequency Tolerance

A.4.1. Reference

See Clause 13.6 of ANSI C63.4-2009 specifically. See Clause 4, Clause 5, and Clause 6 of ANSI C63.4-2009 generally.

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). EUT1 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: Set. NFC02, PASS.

Table A-1: Frequency Stability VS Temperature and Voltage

1						
Tomporoturo	Voltage	Frequency Error (MHz)				
Temperature		Startup	2 Min Later	5 Min Later	10 Min Later	
T min	V nom	13.5592750	13.5592760	13.5592750	13.5592750	
T max	V nom	13.5592650	13.5590680	13.5592070	13.5590650	
T nom	V nom	13.5592750	13.5592750	13.5592710	13.5592710	
T nom	V min	13.5592650	13.5592650	13.5592650	13.5592645	
T nom	V max	13.5592730	13.5592650	13.5592680	13.5592690	

To work a water wa	Voltogo	Frequency Error (%)				
Temperature	Voltage	Startup	2 Min Later	5 Min Later	10 Min Later	
T min	V nom	-0.005	-0.005	-0.005	-0.005	
T max	V nom	-0.005	-0.007	-0.006	-0.007	
T nom	V nom	-0.005	-0.005	-0.005	-0.005	
T nom	V min	-0.005	-0.005	-0.005	-0.005	
T nom	V max	-0.005	-0.005	-0.005	-0.005	

A.4.7. Measurement Uncertainty

Measurement uncertainty: *U* =77 Hz, k=2

A.5. 20dB Bandwidth

A.5.1. Reference

See Clause 13.7 of ANSI C63.4-2009 specifically.

See Clause 4, Clause 5, and Clause 6 of ANSI C63.4-2009 generally.

A.5.2. Measurement Methods

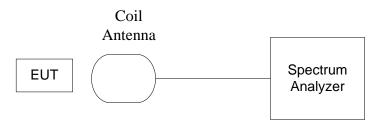
The transmitter output signal was picked up by coil antenna to the spectrum analyzer.

The transmitter output signal was picked up by coil antenna connected to the spectrum analyzer.

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The bandwidth of the center frequency was measured with 140Hz RBW, 420Hz VBW and 14kHz 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 °C.

A.5.4. Test Layouts

See A.5.2.

A.5.5. Limits

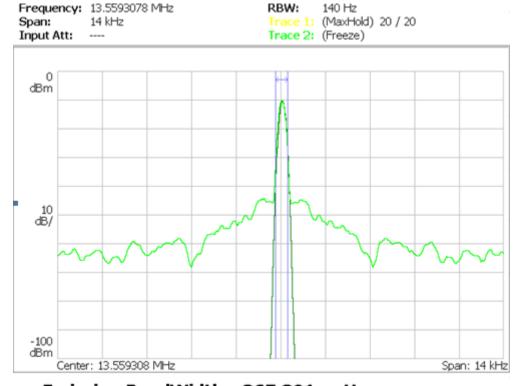
The 20dB bandwidth shall be less than 80% of the permitted frequency band. For 13.56 MHz NFC, the permitted frequency band is 14kHz, so the limit is 11.2 kHz.

A.5.6. Measurement Results

Measurement results see Figure A-4.

Conclusions: Set. NFC02 and NFC03, PASS.





Emission BandWidth: 365.391 Hz

Figure A-5: Test result of EUT1 at test set. NFC02

A.5.7. Measurement Uncertainty

Measurement uncertainty: U = 77 Hz, k=2

A.6. Conducted emission

A.6.1. Reference

See Clause 13.3 and Clause 7 of ANSI C63.4-2009 specifically. See Clause 4, Clause 5, and Clause 6 of ANSI C63.4-2009 generally.

A.6.2. Measurement Methods

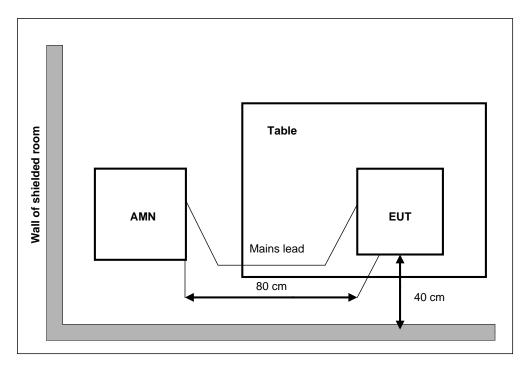
The conducted emissions from the AC port of the EUT are measured in a shielding room. The EUT is connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection was performed. The measurements were performed with a quasi-peak detector and if required, an average detector.

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 $\,^{\circ}$ C.

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		

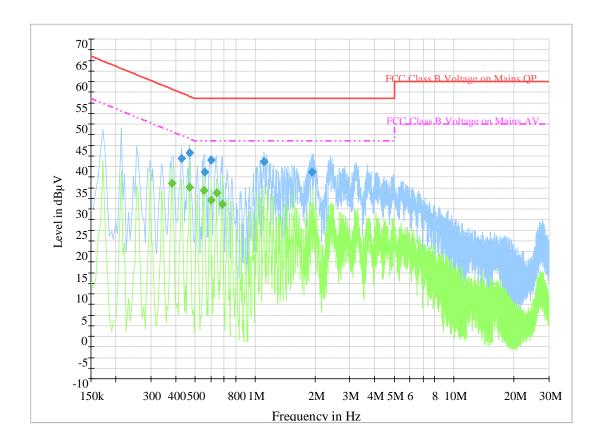
A.6.5. Measurement Results

Measurement results see Figure A-5.

Conclusions: Set. NFC01, PASS.

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





Final Result 1

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Frequency	QuasiPeak	PE	Line	Corr.	Margin	Limit
0.429000	41.9	GND	L1	9.8	15.4	57.3
0.469500	43.3	GND	L1	9.8	13.3	56.5
0.559500	38.8	GND	L1	9.8	17.2	56.0
0.600000	41.6	GND	L1	9.8	14.4	56.0
1.113000	41.1	GND	L1	9.7	14.9	56.0
1.927500	38.7	GND	L1	9.7	17.3	56.0

Final Result 2

Frequency	Average	PE	Line	Corr.	Margin	Limit
0.384000	36.1	GND	L1	9.8	12.1	48.2
0.469500	35.1	GND	L1	9.8	11.4	46.5
0.555000	34.4	GND	L1	9.8	11.6	46.0
0.600000	32.0	GND	L1	9.8	14.0	46.0
0.640500	33.7	GND	L1	9.8	12.3	46.0
0.685500	31.1	GND	L1	9.8	14.9	46.0

Figure A-6: Test result of EUT1 at test set. NFC01



A.6.6. Measurement Uncertainty

Measurement uncertainty: U = 3.2 dB, k=2



ANNEX B: EUT PHOTOGRAPH

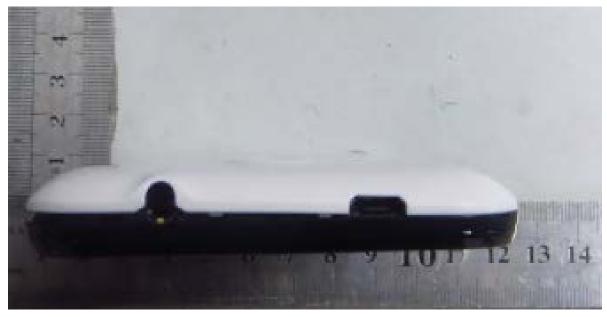


Pic A-1 Mobile Phone



Pic A-2 Mobile Phone





Pic A-3 Mobile Phone



Pic A-4 Mobile Phone





Pic A-5 Mobile Phone



Pic A-6 Mobile Phone





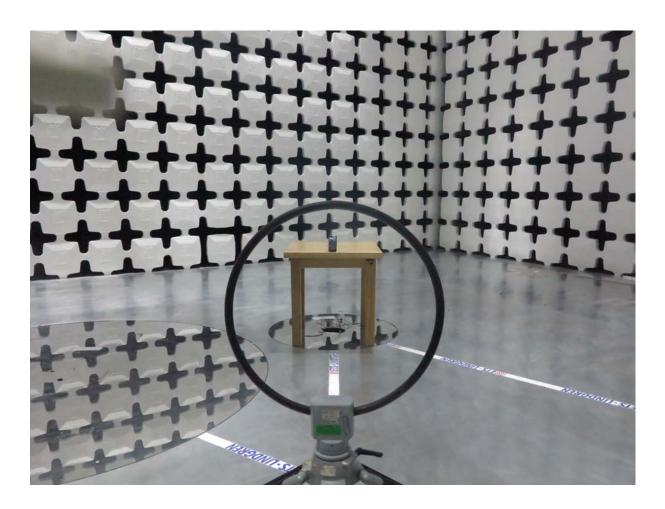
Pic A-7 Battery AE1



Pic A-8 Charger AE3

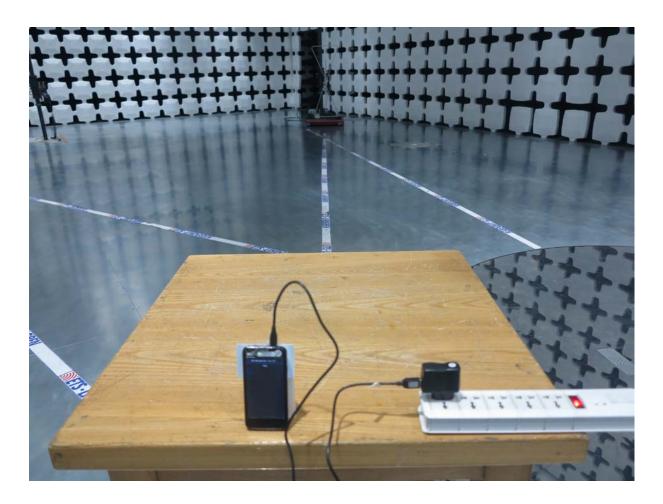


ANNEX C: TEST LAYOUT



Picture C-1: Field Strength Measurements (Below 30MHz)





Picture C-2: Field Strength Measurements (Above 30MHz)





Picture C-3: Conducted Emissions Measurements

END OF REPORT