

TEST REPORT

No. 2013IOT00087

for

Sony Mobile Communications AB

GSM/WCDMA Mobile Phone

Type: PM-0760-BV

FCC ID: PY7PM-0760

with

Hardware Version: A

Software Version: 19.0.D.0.109

Issued Date: Jan. 03rd, 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.6629B-1

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

No. 52, Huayuanbei Road, Haidian District, Beijing, P. R. China 100191

Tel:+86-10-62304633; Fax:+86-10-62304633; Email:welcome@emcite.com; Http://www.emcite.com/



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1. Test Laboratory

1.1. Testing Location

Company Name:

TMC Beijing, Telecommunication Metrology Center of MIIT

Address:

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

Postal Code:

100191

Telephone:

+86-10-62304633-2678

Fax:

+86-10-62304633-2504

1.2. Testing Environment

Ambient Temperature:

15 ~ 25 ℃

Relative Humidity:

30 ~ 60 %

Air pressure

860 ~ 1060 mbar

1.3. Project Data

Receipt of Sample:

Dec. 16th, 2013

Testing Start Date:

Dec. 19th, 2013

Testing End Date:

Dec. 30th, 2013

1.4. Signature

Zhu Llang

(Prepared this test report)

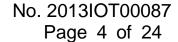
Yang Jun

(Reviewed this test report)

Wang Hongbo

Deputy Director of the laboratory

(Approved this test report)





2. Client Information

2.1. Applicant Information

Company Name: Sony Mobile Communications (China) Co. Ltd

Address /Post: Sony Mobile R&D Center, No. 16, Guangshun South Street,

Chaoyang District

City: Beijing
Postal Code: 100102
Country: China

Telephone: +86-10-58656312 Fax: +86-10-58659049

2.2. Manufacturer Information

Company Name: Sony Mobile Communications AB Address /Post: Mobilvägen, 22188 Lund, Sweden

City: Lund
Postal Code: 22188
Country: Sweden

Telephone: +46 703 227503 Fax: +46 706 127385



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

3.1. About EUT

Description:	GSM\WCDMA FDD mobile phone
Model Name:	PM-0760-BV
Marketing Name:	/
FCC ID:	PY7PM-0760
IC ID:	/
With NFC Function:	Yes
Frequency:	13.56 MHz
Antenna:	Integral Antenna
Operation Voltage:	3.5VDC to 4.1VDC (nominal: 3.7VDC)
Operation Temperature:	-20°C to +55°C

Note1: Photographs of EUT are shown in ANNEX A 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*	SN / IMEI	HW Version	SW Version
EUT1	004402147220283	AP1	19.0.D.0.133

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

3.3. Internal Identification of AE Used during the Test

AE ID*	Description	SN	Revision
#23305	Travel Charger	4413W18511285	1C
#22530	USB Cable	123307DE00365F2	1
AE3	Type A card		

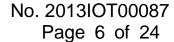
#23305

Commercial name EP880
Type AC-0400-EU
Manufacturer SALCOMP

Length of cable 98.5 cm (length of USB cable)

#22530

Commercial name EC801
Type AI-0401
Manufacturer Sony Mobile
Length of cable 98.5 cm





/
Gemalto
/

3.4. General Description

The Equipment Under Test (EUT) is a model of GSM/WCDMA Mobile Phone with integrated antenna and inbuilt battery.

The EUT supports GSM 850/900/1800/1900MHz bands and WCDMA FDD bands 1/2/5/8. It supports GPRS service with multi-slots class 33 and EGPRS service with multi-slots class 33. The HSDPA and HSUPA (Cat 6) features are also supported.

It has MP3, camera, USB memory, Mobile High-Definition Link (MHL), FM radio, GPS receiver, NFC, Bluetooth (EDR and Bluetooth 4.0), ANT+, WLAN (802.11 a/b/g/n) and Wi-Fi hotspot functions. For WLAN 802.11n, it supports 20MHz and 40MHz bandwidths on both 2.4GHz band and 5GHz/5.8GHz band.

It consists of normal options: USB cable and travel charger.

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+ #23305+ #22530+AE3 (PICC)	
Set. NFC02	EUT1+AE3 (PICC)	

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.

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



4. Reference Documents

4.1. <u>Documents Supplied by the Applicant</u>

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;	2012
	General Rules and Regulations.	
CFR 47 Part 15	Part 15 — Radio Frequency Devices.	2012
	Subpart C — Intentional Radiators.	
	§ 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:

.com.ig.		
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	
1	Electric Field Strength of	CFR 47 § 15.225(a)		P(Set. NFC02)	
'	Fundamental Emissions	CFR 47 § 15.225(a)	A.1	P(Set. NPC02)	
2	Electric Field Strength of	CFR 47 § 15.225(b)	A.1	D(Sat NECO2)	
	Outside the Allocated Bands	CFR 47 § 15.225(c)		P(Set. NFC02)	
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)	
5	20dB Bandwidth	CFR 47 § 15.215(c)	A.5	P(Set. NFC02)	
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:

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	T min	-30 °C	
Temperature	T nom	20 ℃	
	T max	50 °C	
	V min	3.6 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.	NAME	TYPE	SERIES NUMBER	PRODUCER	CAL. DUE DATE (YY-MM-DD)
1.	Spectrum Analyzer	RSA3408A	B 010277	Tektronix	2014-05-27
2.	Test Receiver	ESCI	100344	R&S	2014-03-28
3.	Spectrum Analyzer	E4440A	MY48250642	Agilent	2014-03-04
4.	LISN	ESH2-Z5	829991/012	R&S	2014-04-14
5.	EMI Antenna	VULB 9163	9163-482	Schwarzbeck	2014-02-17
6.	EMI Antenna	3117	00119024	ETS-Lindgren	2014-02-02
7.	EMI Antenna	3117	00058889	ETS-Lindgren	2014-02-02
8.	EMI Antenna	VUBA 9117	167	Schwarzbeck	2014-04-01
9.	Signal Generator	N5183A	MY49060052	Agilent	2014-03-19
10.	Climatic chamber	SH-241	92003546	ESPEC	2014-05-11
11.	Universal Radio Communication Tester	CMU200	114724	R&S	2014-04-18
12.	Universal Radio Communication Tester	CMU200	116455	R&S	2014-05-19
13.	Universal Radio Communication Tester	E5515C	MY48363198	Agilent	2014-03-16
14.	Universal Radio Communication Tester	E5515C	MY48361083	Agilent	2014-07-08



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

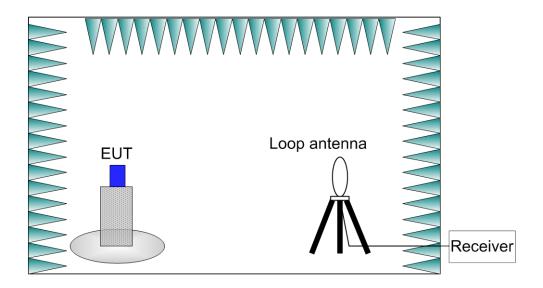
The transmitter carrier output levels (E-Field) from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The E-field 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

Fraguency Banga (MHz)	E-field Strength Limit @ 30 m	E-field Strength Limit @ 3 m	
Frequency Range (MHz)	(μV/m)	(dBµV/m)	
13.560 ± 0.007	+15,848	124	
13.410 to 13.553	+334	90	
13.567 to 13.710	+334		
13.110 to 13.410	106	01	
13.710 to 14.010	+106	81	

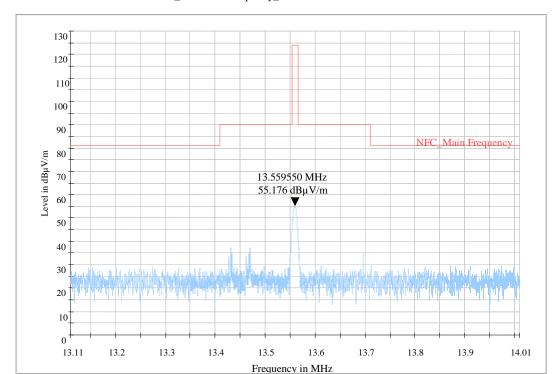
Note: Where the limits have been defined at one distance, and a signal level measured at another, the limits have been extrapolated using the following formula:

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: Set. NFC02, PASS.



RE_NFC Main Frequency_13.110MHz-14.010MHz

Figure A-1: Set. NFC02

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

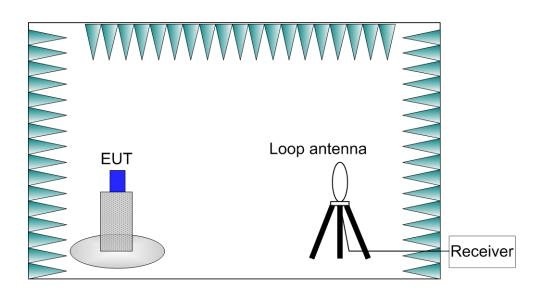
The transmitter carrier output levels (E-Field) from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The center of the receiving loop antenna is 1.0 meter above the ground. The E-field 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 in the range of $15 \sim 25$ °C.

A.2.4. Limits

Eraguanay Panga (MUz)	E-field Strength Limit @ 30m	E-field Strength Limit @ 3m	
Frequency Range (MHz)	(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	

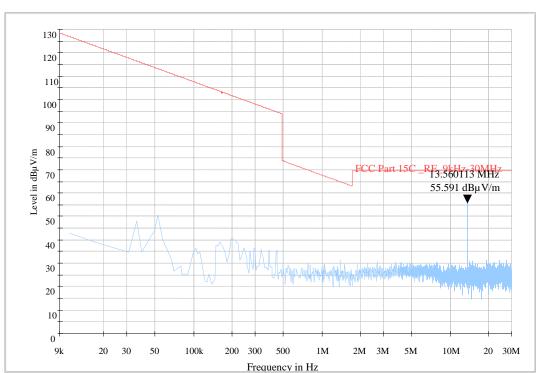
Note: Where the limits have been defined at one distance, and a signal level measured at another, the limits have been extrapolated using the following formula:

Extrapolation(dB) = $40\log_{10}$ (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: Set. NFC01, PASS.



 $RE_9kHz-30MHz$

Figure A-2: Set. NFC01

A.2.6. Measurement Uncertainty

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



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

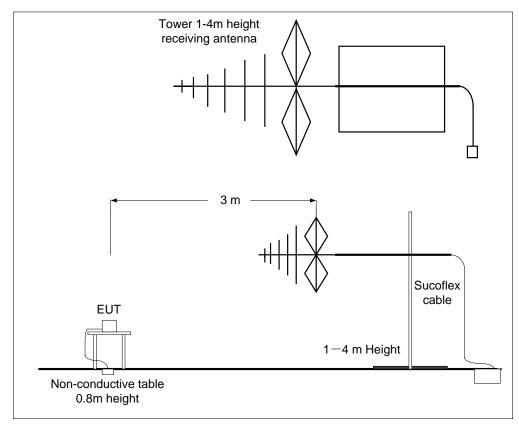
The electric field radiated emissions from the EUT are measured in a semi-anechoic chamber. The EUT is placed on a non-conductive stand of 80cm high, and at a measurement distance of 3m from the receiving antenna. The receiving antennas connected to a measurement receiver comply with Clause 15 of ANSI 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	

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.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 $^{\circ}$ C.

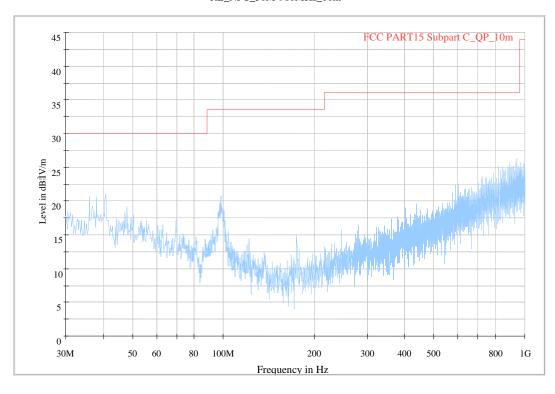
A.3.4. Limits

Frequency Range (MHz)	E-field Strength Limit @ 3m	E-field Strength Limit @ 3m	
riequelicy Ralige (Will2)	(mV/m)	(dBµV/m)	
30-88	100	40	
88-216	150	43.5	
216-960	200	46	

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.



 $RE_NFC_30M\text{-}960MHz_10m$

Figure A-3: Set. NFC01

A.3.6. Measurement Uncertainty

Measurement uncertainty: U=3.9 dB, k=2



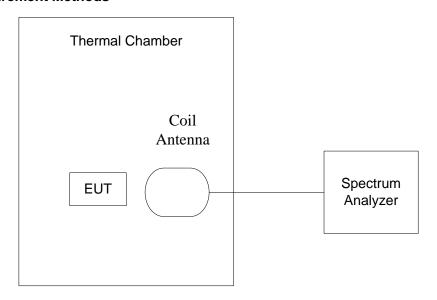
A.4. Frequency Tolerance

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 spectrum analyzer. 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

Temperature	Voltage	Frequency Error (MHz)			
	Voltage	Startup	2 Min Later	5 Min Later	10 Min Later
T min	V nom	13.5594469	13.5594438	13.5594344	13.5594368
T max	V nom	13.5593188	13.5593219	13.5593157	13.5593166
T nom	V nom	13.5594188	13.5594182	13.5594438	13.5594533
T nom	V min	13.5594586	13.5594601	13.5594688	13.5594637
T nom	V max	13.5594172	13.5594103	13.5594183	13.5594138

Temperature	Voltage	Frequency Error (%)					
		Startup	2 Min Later	5 Min Later	10 Min Later		
T min	V nom	-0.004	-0.004	-0.004	-0.004		
T max	V nom	-0.005	-0.005	-0.005	-0.005		
T nom	V nom	-0.004	-0.004	-0.004	-0.004		
T nom	V min	-0.004	-0.004	-0.004	-0.004		
T nom	V max	-0.004	-0.004	-0.004	-0.004		

A.4.7. Measurement Uncertainty

Measurement uncertainty: U = 77 Hz, k = 2



A.5. 20dB Bandwidth

A.5.1. Reference

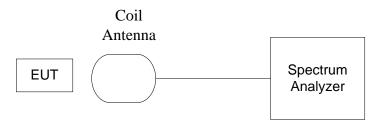
See Clause 13.7 of ANSI C63.4-2009 specifically.

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. The bandwidth of the center frequency was measured with 100Hz RBW, 300Hz VBW and 5kHz 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).

EUT1 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 14 kHz, so the limit is 11.2 kHz.

A.5.6. Measurement Results

Measurement results see Figure A-4.

Conclusions: Set. NFC02, PASS.

A.5.7. Measurement Uncertainty

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



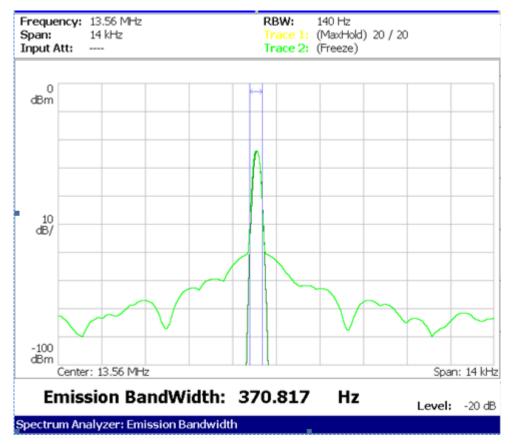


Figure A-4: 20dB Bandwidth Test result



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.

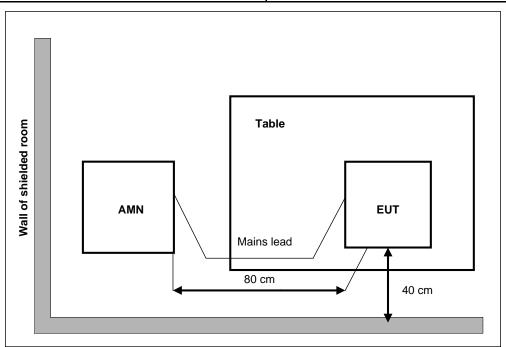
A.6.2. Measurement Methods

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 \sim 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.

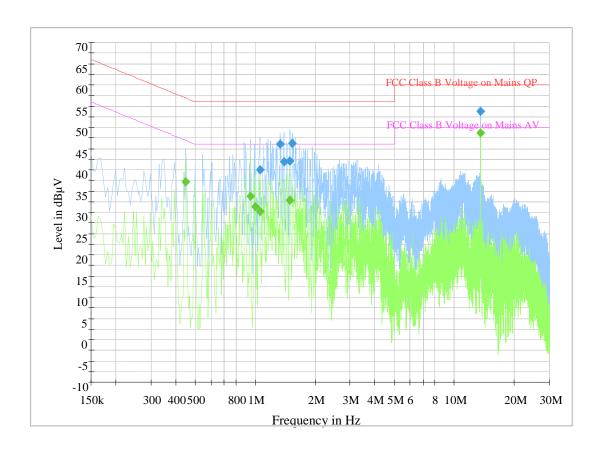


Figure A-5: Test result at test set. NFC01

Final Result 1

Frequency	Quasi	PE	Line	Corr.	Marg	Limit
1.054500	40.0	GND	L1	9.7	16.0	56.0
1.333500	46.0	GND	L1	9.7	10.0	56.0
1.392000	42.0	GND	L1	9.7	14.0	56.0
1.495500	42.0	GND	L1	9.7	14.0	56.0
1.540500	46.2	GND	L1	9.7	9.8	56.0
13.560000	53.8	GND	L1	9.5	6.2	60.0



Final Result 2

Frequen	Aver	PE	Line	Corr.	Marg	Limit
0.447000	37.2	GND	L1	9.8	9.8	46.9
0.946500	33.7	GND	L1	9.7	12.3	46.0
1.000500	31.2	GND	L1	9.7	14.8	46.0
1.054500	30.2	GND	L1	9.7	15.8	46.0
1.495500	32.8	GND	L1	9.7	13.2	46.0
13.56000	48.7	GND	L1	9.5	1.3	50.0

A.6.6. Measurement Uncertainty

Measurement uncertainty: U = 3.2 dB, k=2

END OF REPORT