



RADIO TEST REPORT

Test Report No. : 32BE0106-HO-02-D

Applicant : NEC Corporation of America

Type of Equipment : Digital Portable Cellular Telephone

Model No. : MJK2029

Test standard : FCC Part 15 Subpart C: 2010

FCC ID : A98-MJK2029

Test result : Complied

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2. The results in this report apply only to the sample tested.
3. This sample tested is in compliance with the limits of the above regulation.
4. The test results in this test report are traceable to the national or international standards.
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6. The opinions and the interpretations to the result of the description in this report are outside scopes where UL Japan has been accredited.

Date of test: September 28 to October 6, 2011

**Representative
test engineer:**

Hikaru Shirasawa
Engineer of WiSE Japan,
UL Verification Service

Approved by :

Go Ishiwata
Manager of WiSE Japan,
UL Verification Service



The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in UL Japan.
 There is no testing item of "Non-accreditation".

**UL Japan, Inc.
Shonan EMC Lab.**

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13-EM-F0429

CONTENTS	PAGE
SECTION 1: Customer information	3
SECTION 2: Equipment under test (E.U.T.).....	3
SECTION 3: Test specification, procedures & results	5
SECTION 4: Operation of E.U.T. during testing	7
SECTION 5: Radiated emission (Fundamental, Spurious emission and Spectrum mask)	8
SECTION 6: Other test	9
APPENDIX 1: Test data.....	10
APPENDIX 2: Test instruments.....	15
APPENDIX 3: Photographs of test setup.....	16

SECTION 1: Customer information

Company Name : NEC CASIO Mobile Communications, Ltd.
Address : 1753 Shimonumabe, Nakahara-ku, Kawasaki, Kanagawa 211-8666 Japan
Telephone Number : +81-44-455-8778
Facsimile Number : +81-44-455-8025
Contact Person : Katsushi Takimura

SECTION 2: Equipment under test (E.U.T.)

2.1 Identification of E.U.T.

Type of Equipment : Digital Portable Cellular Telephone
Model No. : MJK2029
Serial No. : Refer to Section 4, Clause 4.2
Rating : DC 3.7V
Receipt Date of Sample : September 27, 2011
Country of Mass-production : Japan
Condition of EUT : Production prototype
Modification of EUT : No Modification by the test lab

2.2 Product description

Model No: MJK2029, (referred to as the EUT in this report), is the Digital Portable Cellular Telephone.

General Specification

Clock frequency(ies) in the system : CPU: 1GHz

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Radio Specification

Bluetooth (Ver.2.1 + EDR)

Equipment Type	Transceiver
Frequency of Operation	2402-2480MHz
Other Clock Frequency	19.2MHz
Type of Modulation	FHSS
Bandwidth & Channel spacing	1MHz & 1MHz
Antenna Connector Type	Integrated antenna

Low Energy (Ver.4.0)

Equipment Type	Transceiver
Frequency of Operation	2402-2480MHz
Other Clock Frequency	19.2MHz
Type of Modulation	DSSS
Bandwidth & Channel spacing	1MHz & 2MHz
Antenna Connector Type	Integrated antenna

WLAN (IEEE802.11b/g/n (SISO/HT20))

Equipment Type	Transceiver
Frequency of Operation	2412-2462MHz
Other Clock Frequency	19.2MHz
Type of Modulation	DSSS, OFDM
Antenna Connector Type	Integrated antenna

GSM

Equipment Type	Transceiver
Frequency of Operation	[Up Link] GSM850: 824 – 849MHz EGSM: 880 – 915MHz DCS: 1710 – 1785MHz PCS: 1850 – 1910MHz [Down Link] GSM850: 869 – 894MHz EGSM: 925 – 960MHz DCS: 1805 – 1880MHz PCS: 1930 – 1990MHz
Other Clock Frequency	19.2MHz
Type of Modulation	GMSK
Channel spacing	200kHz
Antenna Connector Type	Integrated antenna

GPS

Equipment Type	Receiver
Receiver Type	Direct Downconversion
Frequency of Operation	1575.42MHz
Other Clock Frequency	19.2MHz
Antenna Connector Type	Integrated antenna

RFID

Equipment Type	Transceiver
Frequency of Operation	13.56MHz
Type of Modulation	ASK
Antenna Connector Type	Integrated antenna

*This test report applies for RFID.

SECTION 3: Test specification, procedures & results

3.1 Test Specification

Test Specification : FCC Part 15 Subpart C: 2011, final revised on July 8, 2011 and effective August 8, 2011

Title : FCC 47CFR Part15 Radio Frequency Device Subpart C Intentional Radiators
Section 15.207 Conducted limits
Section 15.209 Radiated emission limits, general requirements
Section 15.215 Additional provisions to the general radiated emission limitations
Section 15.225 : Operation within the band 13.110-14.010MHz

3.2 Procedures and results

Item	Test Procedure	Specification	Worst margin	Results	Remarks
Conducted emission	ANSI C63.4:2003 7. AC power line conducted emission measurements	Section 15.207	N/A	N/A	*1)
Electric field strength of Fundamental emission	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.225(a)	69.5dB 13.56MHz, QP, Vertical.	Complied	Radiated
Spectrum mask	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.225(b)(c)	See data	Complied	Radiated
20dB bandwidth	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.215(c)	See data	-	Radiated
Electric field strength of Spurious emission	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.209, Section 15.225 (d)	12.9dB 230.52MHz, QP, Horizontal	Complied	Radiated
Frequency tolerance	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.225(e)	See data	Complied	Radiated

*1) The test is not applicable since the EUT is designed to stop transmission when the AC adaptor is connected.

Note: UL Japan, Inc.'s EMI Work Procedures No. 13-EM-W0420 and 13-EM-W0422

FCC 15.31 (e)

This EUT provides stable voltage (DC3.1V) constantly to RF Part regardless of input voltage. Therefore, this EUT complies with the requirement.

FCC Part 15.203 Antenna requirement

It is impossible for end users to replace the antenna, because the antenna is mounted inside of the EUT. Therefore, the equipment complies with the antenna requirement of Section 15.203.

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3.3 Addition to standard

Item	Test Procedure	Specification	Worst margin	Results	Remarks
Occupied Bandwidth (99%)	ANSI C63.4:2003 13. Measurement of intentional radiators RSS-Gen 4.6.1	RSS-Gen 4.6.1	N/A	-	Radiated

Other than above, no addition, exclusion nor deviation has been made from the standard.

3.4 Uncertainty

The following uncertainties have been calculated to provide a confidence level of 95% using a coverage factor k=2.

Item	Frequency range	No.1 SAC ^{*1} /SR ^{*2} (±)	No.2 SAC/SR (±)	No.3 SAC/SR (±)
Radiated emission (Measurement distance: 3m)	9kHz-30MHz	3.7 dB	3.7 dB	3.6 dB
	30MHz-300MHz	4.9 dB	5.1 dB	5.0 dB
	300MHz-1GHz	5.0 dB	5.2 dB	5.0 dB

*1: SAC=Semi-Anechoic Chamber

*2: SR= Shielded Room is applied besides radiated emission

Radiated emission test

The data listed in this test report has enough margin, more than site margin.

Frequency tolerance

Frequency Measurement uncertainty for this test was: (±) 5.5%

3.5 Test location

UL Japan, Inc. Shonan EMC Lab.

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Telephone number : +81 463 50 6400

Facsimile number : +81 463 50 6401

JAB Accreditation No. : RTL02610

	FCC Registration No.	IC Registration No.	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Maximum measurement distance
<input checked="" type="checkbox"/> No.1 Semi-anechoic chamber	697847	2973D-1	20.6 x 11.3 x 7.65	20.6 x 11.3	10m
<input type="checkbox"/> No.2 Semi-anechoic chamber	697847	2973D-2	20.6 x 11.3 x 7.65	20.6 x 11.3	10m
<input type="checkbox"/> No.3 Semi-anechoic chamber	697847	2973D-3	12.7 x 7.7 x 5.35	12.7 x 7.7	5m
<input type="checkbox"/> No.4 Full-anechoic chamber	-	-	8.1 x 5.1 x 3.55	8.1 x 5.1	-
<input type="checkbox"/> No.1 shielded room	-	-	6.8 x 4.1 x 2.7	6.8 x 4.1	-
<input type="checkbox"/> No.2 shielded room	-	-	6.8 x 4.1 x 2.7	6.8 x 4.1	-
<input type="checkbox"/> No.3 shielded room	-	-	6.3 x 4.7 x 2.7	6.3 x 4.7	-
<input type="checkbox"/> No.4 shielded room	-	-	4.4 x 4.7 x 2.7	4.4 x 4.7	-
<input checked="" type="checkbox"/> No.5 shielded room	-	-	7.8 x 6.4 x 2.7	7.8 x 6.4	-
<input type="checkbox"/> No.6 shielded room	-	-	7.8 x 6.4 x 2.7	7.8 x 6.4	-

3.6 Test set up, Data of test, and Test instruments

Refer to APPENDIX.

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SECTION 4: Operation of E.U.T. during testing

4.1 Operating modes

The mode is used:

Mode	Remarks
Transmitting (13.56MHz)	Continuous transmitting 13.56MHz (modulated)

Justification: The system was configured in typical fashion (as a customer would normally use it) for testing.

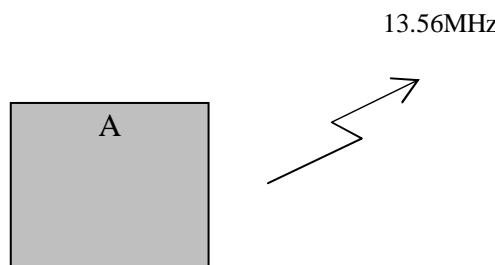
Frequency Tolerance:

Temperature : -20deg.C to +50deg.C Step 10deg.C

Voltage : Normal Voltage DC 3.7V

*This EUT provides stable voltage constantly to RF Part regardless of input voltage.

4.2 Configuration and peripherals



* Setup was taken into consideration and test data was taken under worse case conditions.

Description of EUT and Support equipment

No.	Item	Model number	Serial number	Manufacturer	Remark
A	Digital Portable Cellular Telephone	MJK2029	SNEAB000212 *1) SNEAB000213 *2)	NEC CASIO Mobile Communications, Ltd.	EUT

*1) Used for the tests Electric field strength of Fundamental emission, Spectrum mask and Electric field strength of Spurious emission.

*2) Used for the tests Frequency tolerance, 20dB bandwidth and Occupied Bandwidth (99%).

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SECTION 5: Radiated emission (Fundamental, Spurious emission and Spectrum mask)

Test configuration

EUT was placed on a platform of nominal size, 1m by 1.5m, raised 80cm above the conducting ground plane. The table is made of Styrofoam and covered with polyvinyl chloride. That has very low permittivity. The Radiated Electric Field Strength has been measured in a Semi Anechoic Chamber with a ground plane.

Test conditions

Frequency range : 9kHz - 1GHz
Test distance : 3m

Test procedure

The Radiated Electric Field Strength intensity has been measured with a ground plane and at a distance of 3m.

Frequency: From 9kHz to 30MHz

The EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity. The measurements were performed for vertical polarization (antenna angle: 0deg.to 360deg.) and horizontal polarization. Drawing of the antenna direction is shown in Figure 1.

Frequency: From 30MHz to 1GHz

The measuring antenna height was varied between 1 and 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

The measurements were performed for both vertical and horizontal antenna polarization.

Measurements were performed with QP, PK, and AV detector.

The radiated emission measurements were made with the following detector function of the test receiver.

	9kHz to 90kHz & 110kHz to 150kHz	90kHz to 110kHz	150kHz to 490kHz	490kHz to 30MHz	30MHz to 1GHz
Detector type	PK/AV	QP	PK/AV	QP	QP
IF Bandwidth	200Hz	200Hz	9kHz	9kHz	120kHz
Measuring antenna type	Loop				Biconical (30-299.99MHz) Logperiodic (300MHz-1GHz)

- The carrier level and noise levels were confirmed at each position of X, Y and Z axes of EUT to see the position of maximum noise, and the test was made at the position that has the maximum noise.

* FCC Part 15 Section 15.31 (f)(2)

$$9\text{kHz} - 490\text{kHz} [\text{Limit at } 3\text{m}] = [\text{Limit at } 300\text{m}] - 40\log\left(\frac{3}{300}\right)$$

$$490\text{kHz} - 30\text{MHz} [\text{Limit at } 3\text{m}] = [\text{Limit at } 30\text{m}] - 40\log\left(\frac{3}{30}\right)$$

Test result

Pass (Refer to the APPENDIX.)

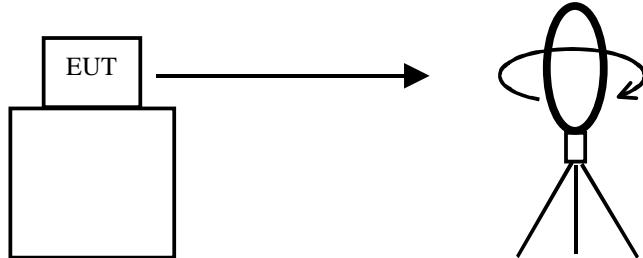
UL Japan, Inc.

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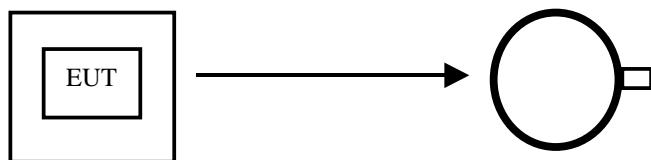
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Figure 1: Direction of the Loop Antenna

Side View (Vertical)

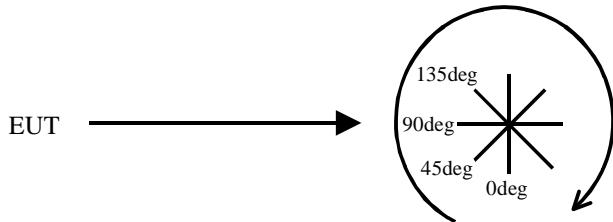


Top View (Horizontal)



Antenna was not rotated.

Top View (Vertical)



Front side: 0 deg.
Forward direction: clockwise

SECTION 6: Other test

Test	Span	RBW	VBW	Sweep time	Detector	Trace	Instrument used
20dB Bandwidth	100kHz	1kHz	3kHz	Auto	Peak	Max Hold	Spectrum Analyzer
Frequency Tolerance	300Hz	10Hz	100Hz	Auto	Peak	Clear / Write	Spectrum Analyzer

Test result

Pass (Refer to the APPENDIX.)

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Data of Field Strength and Outside Filed Strength: FCC15.225(a)(b)(c)

UL Japan, Inc.
 Shonan No3 Semi-Anechoic Chamber

Company:	NEC CASIO Mobile Communications, Ltd.	Report No.:	32BE0106-HO-02-D
Equipment:	Digital Portable Cellular Telephone	Regulation:	FCC Part15 SupartC 15.225
Model:	MJK2029	Test Distance:	3m
Sample No.:	SNEAB000212	Date:	10/2/2011
Power:	DC3.7V(Battery)	Temperature:	24deg.C
Mode:	Transmitting 13.56MHz	Humidity:	47% RH
		ENGINEER:	Hikaru Shirasawa

Remarks: : 212kbps (Axis:Hor_Z / Ver_Z) , Vertical polarization (antenna angle) of the worst case: 0deg

Field strength

No.	FREQ [MHz]	Test Receiver Reading		Antenna Factor	LOSS [dB]	AMP GAIN [dB]	RESULT		LIMIT (3m) [dBuV/m]	MARGIN	
		Hor [dBuV]	Ver [dBuV]				Hor [dBuV/m]	Ver [dBuV/m]		Hor [dB]	Ver [dB]
1	13.560	50.4	60.1	19.6	6.5	31.8	44.7	54.4	123.9	79.2	69.5

Calculation:Result[dBuV/m]=Reading[dBuV]+Ant.Fac[dB/m]+Loss(Cable+ATT)[dB]-Gain(AMP)[dB]

Field strength of 13.553MHz to 13.567MHz Limit(3m) = 83.9dBuV/m + 40log 30m/3m
 = 123.9dBuV/m (FCC15.225(a))

Outside Field strength

No.	FREQ [MHz]	Test Receiver Reading		Antenna Factor	LOSS [dB]	AMP GAIN [dB]	RESULT		LIMIT (3m) [dBuV/m]	MARGIN	
		Hor [dBuV]	Ver [dBuV]				Hor [dBuV/m]	Ver [dBuV/m]		Hor [dB]	Ver [dB]
1	13.110	30.2	30.1	19.6	6.4	31.8	24.4	24.3	69.5	45.1	45.2
2	13.410	30.3	30.3	19.6	6.5	31.8	24.6	24.6	80.5	55.9	55.9
3	13.553	46.1	37.1	19.6	6.5	31.8	40.4	31.4	90.4	50.0	59.0
4	13.567	60.1	50.4	19.6	6.5	31.8	54.4	44.7	90.5	36.1	45.8
5	13.710	30.4	36.3	19.6	6.5	31.8	24.7	30.6	80.5	55.8	49.9
6	14.010	30.3	30.2	19.6	6.5	31.8	24.6	24.5	69.5	44.9	45.0

Calculation:Result[dBuV/m]=Reading[dBuV]+Ant.Fac[dB/m]+Loss(Cable+ATT)[dB]-Gain(AMP)[dB]

Outside filed strength frequencies

- filed strength band $F_c \pm 7\text{kHz}$: 13.553MHz to 13.567MHz
- Outside filde strength $F_c \pm 150\text{kHz}$: 13.410MHz to 13.710MHz
- Outside filde strength $F_c \pm 450\text{kHz}$: 13.110MHz to 14.010MHz

$F_c = 13.56\text{MHz}$

Limits (3m)

- 13.410MHz to 13.553MHz and 13.567MHz to 13.710MHz : $50.5\text{dBuV/m} + 40\log 30\text{m}/3\text{m} = 90.5\text{dBuV/m}$ (FCC15.225(b))
- 13.110MHz to 14.010MHz and 13.710MHz to 14.010MHz : $40.5\text{dBuV/m} + 40\log 30\text{m}/3\text{m} = 80.5\text{dBuV/m}$ (15.225(c))
- Below 13.110MHz and Above 14.010MHz : $29.5\text{dBuV/m} + 40\log 30\text{m}/3\text{m} = 69.5\text{dBuV/m}$ (FCC15.225(d)and FCC15.209)

Radiated Emission

UL Japan, Inc.
 Shonan No1 Semi-Anechoic Chamber

Company: NEC CASIO Mobile Communications, Ltd.
 Equipment: Digital Portable Cellular Telephone
 Model: MJK2029
 Sample No.: SNEAB000212
 Power: DC3.7V(Battery)
 Mode: Transmitting 13.56MHz
 EUT axis: Below 30MHz(Horizontal Z-axis, Vertical Z-axis),
 Above 30MHz(Horizontal: X-axis, Vertical: Y-axis)

Report No.: 32BE0106-HO-02-D
 Regulation: FCC Part15 SupartC 15.225
 Date: 10/2/2011 9/30/2011
 Temperature: 24deg.C 26deg.C
 Humidity: 47%RH 63%RH
 ENGINEER: Hikaru Shirasawa Kenichi Adachi
 (below 30MHz) (above 30MHz)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	27.12	QP	29.70	20.50	6.80	31.80	25.20	69.50	44.30	100	324	
Hori.	40.68	QP	27.60	14.70	7.10	31.80	17.60	40.00	22.40	249	51	
Hori.	67.80	QP	36.80	6.90	7.50	31.80	19.40	40.00	20.60	283	36	
Hori.	122.04	QP	35.30	13.10	8.20	31.80	24.80	43.50	18.70	149	173	
Hori.	203.40	QP	34.30	16.90	9.00	31.70	28.50	43.50	15.00	154	137	
Hori.	230.52	QP	38.40	17.10	9.30	31.70	33.10	46.00	12.90	131	128	
Hori.	922.07	QP	27.80	22.30	10.10	31.20	29.00	46.00	17.00	100	52	
Vert.	27.12	QP	29.00	20.50	6.80	31.80	24.50	69.50	45.00	100	125	
Vert.	40.68	QP	33.40	14.70	7.10	31.80	23.40	40.00	16.60	100	325	
Vert.	67.80	QP	40.60	6.90	7.50	31.80	23.20	40.00	16.80	100	146	
Vert.	122.04	QP	35.90	13.10	8.20	31.80	25.40	43.50	18.10	100	137	
Vert.	203.40	QP	29.80	16.90	9.00	31.70	24.00	43.50	19.50	100	138	
Vert.	230.52	QP	32.60	17.10	9.30	31.70	27.30	46.00	18.70	100	127	
Vert.	922.07	QP	25.90	22.30	10.10	31.20	27.10	46.00	18.90	100	144	

Result = Reading + Ant Factor + Loss (Cable+Attenuator) - Gain(Amprifier)

*Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

Data of Frequency Tolerance: FCC 15.225(e) (1/2)

UL Japan, Inc.
 Shonan No5 Shield room

Company:	NEC CASIO Mobile Communications, Ltd.	Report No.:	32BE0106-HO-02-D
Equipment:	Digital Portable Cellular Telephone	Regulation:	FCC Part15 SupartC 15.225
Model:	MJK2029	Date:	9/28/2011
Sample No.:	SNEAB000213	Temperature:	26deg.C
Power:	DC3.7V(Battery)	Humidity:	43% RH
Mode:	Transmitting 13.56MHz	ENGINEER:	Akira Sato

Temperature Variation: 50deg.C

Test Conditions	Original Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (MHz)	Frequency Tolerance (%)	Limit (%)
startup	13.56	13.560025	0.000025	0.00018	0.01
after 2minutes	13.56	13.560029	0.000029	0.00021	0.01
after 5minutes	13.56	13.560035	0.000035	0.00025	0.01
after 10minutes	13.56	13.560044	0.000044	0.00032	0.01

Temperature Variation: 40deg.C

Test Conditions	Original Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (MHz)	Frequency Tolerance (%)	Limit (%)
startup	13.56	13.560032	0.000032	0.00024	0.01
after 2minutes	13.56	13.560026	0.000026	0.00019	0.01
after 5minutes	13.56	13.560026	0.000026	0.00019	0.01
after 10minutes	13.56	13.560026	0.000026	0.00019	0.01

Temperature Variation: 30deg.C

Test Conditions	Original Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (MHz)	Frequency Tolerance (%)	Limit (%)
startup	13.56	13.560051	0.000051	0.00037	0.01
after 2minutes	13.56	13.560035	0.000035	0.00026	0.01
after 5minutes	13.56	13.560031	0.000031	0.00023	0.01
after 10minutes	13.56	13.560028	0.000028	0.00021	0.01

Temperature Variation: 20deg.C

Test Conditions	Original Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (MHz)	Frequency Tolerance (%)	Limit (%)
startup	13.56	13.560067	0.000067	0.00050	0.01
after 2minutes	13.56	13.560049	0.000049	0.00036	0.01
after 5minutes	13.56	13.560046	0.000046	0.00034	0.01
after 10minutes	13.56	13.560045	0.000045	0.00033	0.01

Data of Frequency Tolerance: FCC 15.225(e) (2/2)

Company:	NEC CASIO Mobile Communications, Ltd.	Report No.:	UL Japan, Inc.
Equipment:	Digital Portable Cellular Telephone	Regulation:	Shonan No5 Shield room
Model:	MJK2029	Date:	32BE0106-HO-02-D
Sample No.:	SNEAB000213	Temperature:	FCC Part15 SupartC 15.225
Power:	DC3.7V(Battery)	Humidity:	9/28/2011
Mode:	Transmitting 13.56MHz	ENGINEER:	26deg.C
			43% RH
			Akira Sato

Temperature Variation: 10deg.C

Test Conditions	Original Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (MHz)	Frequency Tolerance (%)	Limit (%)
startup	13.56	13.560081	0.000081	0.00060	0.01
after 2minutes	13.56	13.560069	0.000069	0.00051	0.01
after 5minutes	13.56	13.560063	0.000063	0.00047	0.01
after 10minutes	13.56	13.560059	0.000059	0.00044	0.01

Temperature Variation: 0deg.C

Test Conditions	Original Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (MHz)	Frequency Tolerance (%)	Limit (%)
startup	13.56	13.560081	0.000081	0.00060	0.01
after 2minutes	13.56	13.560081	0.000081	0.00060	0.01
after 5minutes	13.56	13.560078	0.000078	0.00058	0.01
after 10minutes	13.56	13.560079	0.000079	0.00059	0.01

Temperature Variation: -10deg.C

Test Conditions	Original Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (MHz)	Frequency Tolerance (%)	Limit (%)
startup	13.56	13.560069	0.000069	0.00051	0.01
after 2minutes	13.56	13.560084	0.000084	0.00062	0.01
after 5minutes	13.56	13.560084	0.000084	0.00062	0.01
after 10minutes	13.56	13.560084	0.000084	0.00062	0.01

Temperature Variation: -20deg.C

Test Conditions	Original Frequency (MHz)	Measured Frequency (MHz)	Frequency Error (MHz)	Frequency Tolerance (%)	Limit (%)
startup	13.56	13.560072	0.000072	0.00053	0.01
after 2minutes	13.56	13.560084	0.000084	0.00062	0.01
after 5minutes	13.56	13.560083	0.000083	0.00061	0.01
after 10minutes	13.56	13.560083	0.000083	0.00061	0.01

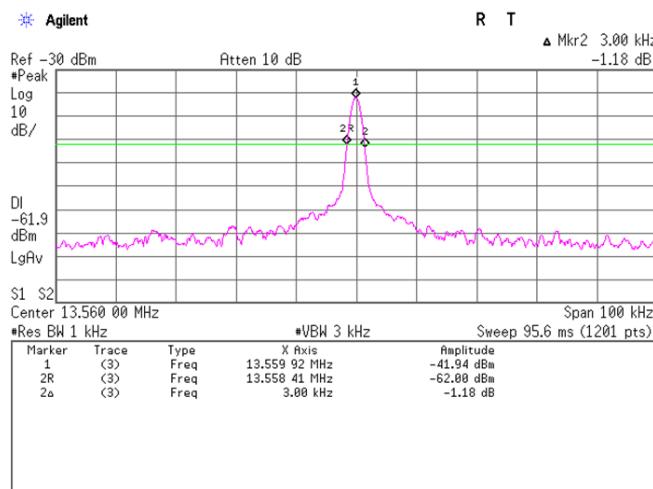
20dB bandwidth & Occupied bandwidth (99%): FCC 15.215

UL Japan, Inc.
Shonan No5 Shield room

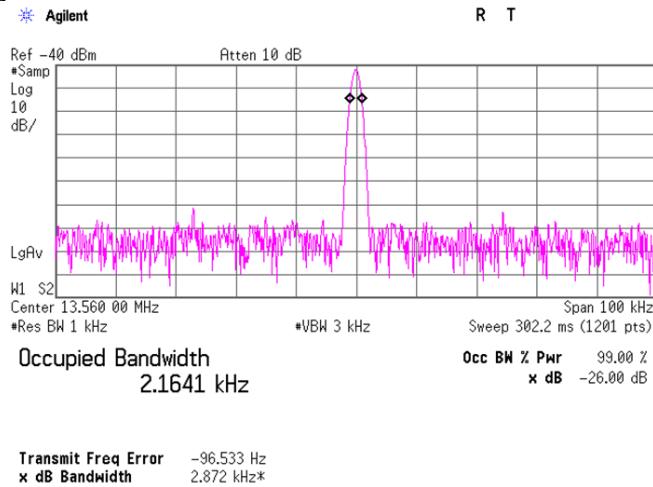
Company: NEC CASIO Mobile Communications, Ltd.
 Equipment: Digital Portable Cellular Telephone
 Model: MJK2029
 Sample No.: SNEAB000213
 Power: DC3.7V(Battery)
 Mode: Transmitting 13.56MHz

Report No.: 32BE0106-HO-02-D
 Regulation: FCC Part15 Subpart C 15.215
 Date: 10/6/2011
 Temperature: 25deg.C
 Humidity: 54% RH
 ENGINEER: Akio Hayashi

20dB Bandwidth: 3.00kHz



OBW(99%): 2.16kHz



APPENDIX 2: Test instruments

EMI test equipment

The expiration date of the calibration is the end of the expired month.

All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

Test Item:

FT: Frequency Tolerance

RE: Radiated emission

BW: Band Width

UL Japan, Inc.

Shonan EMC Lab.

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