

Model: F-06B

TEST REPORT

For

Mobile phone

In conformity with

FCC CFR 47 Part15 (RFID)

Model: F-06B

FCC ID: VQK-F06B

Test Item: Mobile phone

Report No: RY1002Z26R1

Issue Date: 26 February, 2010

Prepared for

FUJITSU LIMITED

1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki 211-8588, Japan

Prepared by

RF Technologies Ltd.

472, Nippa-cho, Kohoku-ku, Yokohama, 223-0057, Japan

Telephone: +81+(0)45- 534-0645 FAX: +81+(0)45- 534-0646

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RF Technologies Ltd. Page 1 of 18



Issue Date: 26 February, 2010 Report No.: RY1002Z262R1 Model: F-06B

Table of contents

| 1 | Ger | neral information | 3 |
|---|-------|------------------------------------------------------------------|----|
| | 1.1 | Product description | 3 |
| | 1.2 | Test(s) performed/ Summary of test result | 3 |
| | 1.3 | Test facility | |
| | 1.4 | Measurement uncertainty | |
| | 1.5 | Summary of test results | |
| | 1.6 | Setup of equipment under test (EUT) | |
| | 1.6.1 | | |
| | 1.6.2 | | |
| | 1.6.3 | Setup diagram of tested system: | 6 |
| | 1.7 | Equipment modifications | |
| | 1.8 | Deviation from the standard | |
| 2 | Tes | t procedure and test data | 7 |
| | | Occupied bandwidth (20dB / 99%) | |
| | | Transmitter radiated spurious emissions between 9 KHz to 30 MHz | |
| | 2.3 | Transmitter radiated spurious emissions between 30MHz to 1000MHz | |
| | 2.4 | Frequency stability | |
| 3 | Tes | t setup photographs | |
| _ | | Definition of the EUT axis and EUT style | |
| | | Radiated spurious emissions | |
| 4 | | t of utilized test equipment/ calibration | |
| 7 | 113 | or annear certainment cannadon | 10 |

History

| Report No. | Date | Revisions | Revised By |
|-------------|-------------------|---------------|------------|
| RY1002Z26R1 | 26 February, 2010 | Initial Issue | K. Ohnishi |
| | | | |



Model: F-06B

1 General information

1.1 Product description

Test item : Mobile phone
Manufacturer : FUJITSU LIMITED

Address : 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki, 211-8588, Japan

Model : F-06B FCC ID : VQK-F06B

Serial numbers : 3531 6903 0005 678 Transmitting Frequency : 13.56 MHz (RFID)

Type of Modulation : ASK 10%

Operating temperature range : -10 to +55 degree C (Manufacturer declared)

Receipt date of EUT : 18 January, 2010 Nominal power source voltages : DC 3.7V (Battery)

1.2 Test(s) performed/ Summary of test result

Test specification(s) : FCC CFR 47. Part 15 (October 1, 2008)

Test method(s) : ANSI C63.4: 2003 Test(s) started : 25 January, 2010 Test(s) completed : 24 February, 2010

Purpose of test(s) : Grant for Certification of FCC

Summary of test result : Complied

Note: The above judgment is only based on the measurement data and it does not include the measurement uncertainty. Accordingly, the statement below is applied to the test result.

The EUT complies with the limit required in the standard in case that the margin is not less than the measurement uncertainty in the Laboratory.

Compliance of the EUT is more probable than non-compliance is case that the margin is less than the measurement uncertainty in the Laboratory.

Test engineer

K.Ohnishi

EMC testing Department

Reviewer

T. Ikegami Manager

EMC testing Department

RF Technologies Ltd.
Page 3 of 18



Model: F-06B

1.3 Test facility

The Federal Communications Commission has reviewed the technical characteristics of the test facilities at RF Technologies Ltd., located in 472, Nippa-cho, Kohoku-ku, Yokohama, 223-0057, Japan, and has found these test facilities to be in compliance with the requirements of 47 CFR Part 15, section 2.948, per October 1, 2007. The description of the test facilities has been filed under registration number 319924 at the Office of the Federal Communications Commission. The facility has been added to the list of laboratories performing these test services for the public on a fee basis.

The list of all public test facilities is available on the Internet at http://www.fcc.gov.

Registered by Voluntary Control Council for Interference by Information Technology Equipment (VCCI) Each registered facility number is as follows;

Test site (Semi-Anechoic chamber 3m) R-2393

Test site (Shielded room) C-2617

Registered by Industry Canada (IC): The registered facility number is as follows;

Test site No. 1 (Semi-Anechoic chamber 3m): 6974A

Accredited by **National Voluntary Laboratory Accreditation Program** (NVLAP) for the emission tests stated in the scope of the certificate under Certificate Number 200780-0

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.



NVLAP LAB CODE 200780-0

1.4 Measurement uncertainty

The treatment of uncertainty is based on the general matters on the definition of uncertainty in "Guide to the expression of uncertainty in measurement (GUM)" published by ISO. The Lab's uncertainty is determined by referring UKAS Publication LAB34: 2002 "The Expression of Uncertainty in EMC Testing" and CISPR16-4-2: 2003 "Uncertainty in EMC Measurements".

The uncertainty of the measurement result in the level of confidence of approximately 95% (k=2) is as follows;

Radiated emission (9 kHz - 30MHz): \pm 2.8 dB Radiated emission (30MHz - 1000MHz): \pm 5.7 dB

RF Technologies Ltd. Page 4 of 18



Model: F-06B

1.5 Summary of test results

| Requirement of; | Section in FCC15 | Result | Section in this report |
|-------------------------------------------------------------------|------------------------------|----------|------------------------|
| 1.5.1 Occupied bandwidth (99%) | - | - | 2.1 |
| 1.5.2 Transmitter radiated emissions between 9kHz to 30 MHz | 15.225(a),(b),(c) and (d) | Complied | 2.2 |
| 1.5.3 Transmitter radiated emissions between 30MHz to 1000 MHz | 15.225 (d) | Complied | 2.3 |
| 1.5.4 Carrier frequency stability | 15.225 (e) | Complied | 2.4 |

The field strength of spurious emission was measured in three orthogonal EUT positions (X-Plane, Y- Plane and Z- Plane). The axis defined in the photographs in clause 3.1 in this report.

1.6 Setup of equipment under test (EUT)

1.6.1 Test configuration of EUT

Equipment(s) under test:

| | Item | Manufacturer | Model No. | Serial No. |
|---|---------------------|-----------------|-----------|--------------------|
| A | Mobile phone | FUJITSU LIMITED | F-06B | 3531 6903 0005 678 |
| В | Li-ion Battery Pack | FUJITSU LIMITED | F16 | No.104 |

Support Equipment(s):

| Item | Manufacturer | Model No. | Serial No. |
|------|--------------|-----------|------------|
| | | | |

Connected cable(s):

| No. | Item | Identification (Manu.e.t.c) | Shielded YES / NO | Ferrite Core YES/NO | Connector Type Shielded YES / NO | Length (m) |
|-----|------|--------------------------------|----------------------|---------------------------|----------------------------------------|------------|
| | | | | | | |
| | | | | | | |

1.6.2 Operating condition:

Operating mode:

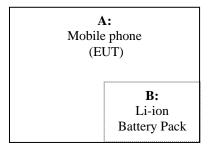
Continuous transmission under the test mode

RF Technologies Ltd. Page 5 of 18



Model: F-06B

1.6.3 Setup diagram of tested system:



1.7 Equipment modifications

No modifications have been made to the equipment in order to achieve compliance with the applicable standards described in clause 1.2.

1.8 Deviation from the standard

No deviations from the standards described in clause 1.2.

RF Technologies Ltd. Page 6 of 18

Model: F-06B

2 Test procedure and test data

2.1 Occupied bandwidth (20dB / 99%)

Test setup

Test setup was implemented according to the method of ANSI C63.4: 2003 13.1.7 "Occupied bandwidth measurements" and Annex H.6 "Occupied bandwidth measurements".

Test procedure

Measurement procedures were implemented according to the method of ANSI C63.4: 2003 13.1.7 "Occupied bandwidth measurements" and Annex H.6 "Occupied bandwidth measurements".

The spectrum analyzer RBW was set as follows and VBW the video bandwidth shall be set to a value at least three times greater than the RBW.

| Fundamental frequency being measured | Minimum instrument bandwidth |
|--------------------------------------|------------------------------|
| 9 kHz to 30 MHz | 1 kHz |
| 30 MHz to 1000 MHz | 10 kHz |
| 1000 MHz to 40 GHz | 100 kHz |

Limitation

There are no limitations. The measurement value is used to calculate the emission designator.

Test equipment used (refer to List of utilized test equipment)

| TR06 | LP01 | CL11 | | |
|------|------|------|--|--|

Test results - Reporting purpose.

| Frequency (MHz) | 20dB Bandwidth (kHz) | 99% Bandwidth (kHz) |
|-----------------|----------------------|---------------------|
| 13.56 | 2.67 | 2.25 |

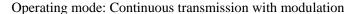
Test Data

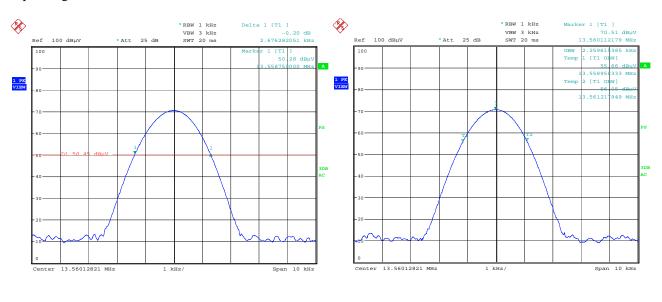
Tested Date: 22 February, 2010

Temperature: 18 °C

Humidity: 35 %

Atmos. Press: 1017 hPa





RF Technologies Ltd. Page 7 of 18

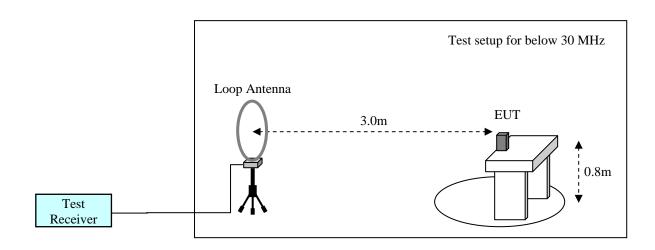


Model: F-06B

2.2 Transmitter radiated spurious emissions between 9 KHz to 30 MHz

Test setup

Test setup was implemented according to the method of ANSI C63.4: 2003 clause 6 "General requirements for EUT equipment arrangements and operation", clause 8.2 and Annex H.3 "Radiated emission measurements setup".



Test procedure

Measurement procedures were implemented according to the method of ANSI C63.4: 2003 clauses 8.2. The EUT is placed on a non-conducted table which is 0.8m height from a ground plane and the measurement antenna to EUT distance is 3 meters. The turn table is rotated for 360 degrees to determine the maximum emission level

In the frequency range of 9 kHz to 30 MHz, a calibrated loop antenna was positioned with its plane vertical at the distance 3m from the EUT with an extrapolation of corrected distance factor and rotated about its vertical axis for maximum response at each azimuth about the EUT. For certain applications, the loop antenna also needs to be positioned horizontally. The center of the loop shall be 1 m above the ground.

EUT is placed at three different orientations (X, Y and Z axis) in order to find the worst orientation. The spectrum analyzer and receiver is set to the followings;

Below 30 MHz:

RBW=10 kHz, VBW= 30 kHz, final measurement is carried out with a receiver RBW of 9 kHz (QP)

RF Technologies Ltd. Page 8 of 18



Model: F-06B

Applicable rule and limitation

§15.205 restricted bands of operation

Except as shown in paragraph 15.205 (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| quency bands fisted below. | | | | | |
|----------------------------|-----------------------|-----------------|---------------|--|--|
| MHz | MHz | MHz | GHz | | |
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 | | |
| 0.490 - 0.510 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 | | |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 | | |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 | | |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 | | |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 | | |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 | | |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 | | |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 | | |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 | | |
| 8.362 - 8.366 | 156.52475 - 156.52525 | 2483.5 - 2500 | 17.7 - 21.4 | | |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2690 - 2900 | 22.01 - 23.12 | | |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | 23.6 - 24.0 | | |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | 31.2 - 31.8 | | |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3358 | 36.43 - 36.5 | | |
| 12.57675 - 12.57725 | 322 - 335.4 | 3600 - 4400 | (1) | | |

15.205(b) except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

§15.209 general requirements

Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency | Field Strength | Measurement Distance |
|---------------|----------------|----------------------|
| (MHz) | (uV/m) | (m) |
| 0.009 - 0.490 | 2400/F (kHz) | 300 |
| 0.490 - 1.705 | 24000/F (kHz) | 30 |
| 1.705 - 30.0 | 30 | 30 |

In the emission table above, the tighter limit applies at the band edges.

The level of any unwanted emissions from an intentional radiator operating under these general provisions shall not exceed the level of the fundamental emission.

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

Radiated emission limits in the above bands are based on measurements employing an average detector.

§15.225 Operation within the band 13.110 – 14.010 MHz

| Frequency | Field strength @30m | Field strength @30m | Field strength @3m |
|-----------------|---------------------|---------------------|--------------------|
| (MHz) | (uV/m) | (dBuV/m) | (dBuV/m) |
| 13.110 - 13.410 | 106 | 40.5 | 80.5 |
| 13.410 - 13.553 | 334 | 50.5 | 90.5 |
| 13.553 - 13.567 | 15,848 | 84.0 | 124.0 |
| 13.567 - 13.710 | 334 | 50.5 | 90.5 |
| 13.710 - 14.010 | 106 | 40.5 | 80.5 |

 $dBuV/m = 20 \times log (uV/m)$, Corrected distance factor = 40dB / decade (15.31(f))

The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the above radiated emission limits in § 15.209.

RF Technologies Ltd. Page 9 of 18



Model: F-06B

Test equipment used (refer to List of utilized test equipment)

| AC01 | LP01 | CL11 | TR06 |
|------|------|------|------|

Test results - Complied with requirement.

Test Data

Tested Date: 21 February, 2010 Temperature: 16 °C

Humidity: 29 %

Atmos. Press: 1021 hPa

Operating mode: Continuous Communication

EUT position: Y-plane / Open style (Maximum position)

Measurement distance: 3 m

§15.225(a)/ (b)/ (c) Fundamental emission

| Freq. | Reading at 3m | Detector | Corr. Factor | Result | Limit at 3m | Margin |
|-------|---------------|----------|--------------|----------|-------------|--------|
| (MHz) | (dBuV) | (QP/Ave) | (dB) | (dBuV/m) | (dBuV/m) | (dB) |
| 13.56 | 36.1 | QP | 11.4 | 47.5 | 124.0 | 76.5 |

Correction Factor [dB] = Antenna Factor [dB/m] + Cable Loss [dB]

§15.225(d) Harmonics and spurious emission between 9 kHz to 30MHz (refer 15.209 and 15.205)

There were no spurious emissions greater than noise floor or 20dB below the limit.

RF Technologies Ltd. Page 10 of 18

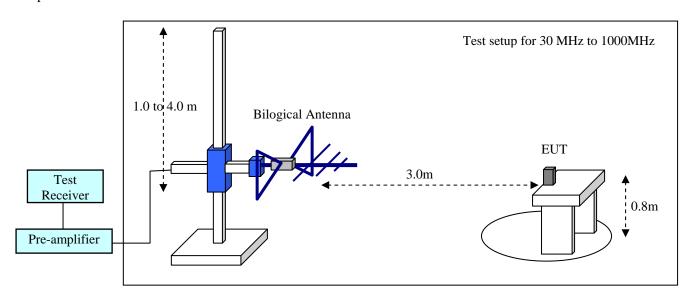


Model: F-06B

2.3 Transmitter radiated spurious emissions between 30MHz to 1000MHz

Test setup

Test setup was implemented according to the method of ANSI C63.4: 2003 clause 6 "General requirements for EUT equipment arrangements and operation", clause 8.2.3 and Annex H.4 "Radiated emission measurements setup".



Test procedure

Measurement procedures were implemented according to the method of ANSI C63.4: 2003 clauses 8.2.3. Exploratory radiated measurements were performed at the measurement distance of 3 meters using broadband antennas and a spectrum analyzer. The EUT was set up in its typical configuration and arrangement, and operated in its various modes.

For each mode of operation required to be tested, the frequency spectrum were monitored. Variations in antenna height between 1 and 4 m, antenna polarization, EUT azimuth, and cable or wire placement (each variable within bounds specified elsewhere) were explored to produce the emission that has the highest amplitude relative to the limit.

Based on the exploratory measurement results, the one EUT, cable and wire arrangement, and mode of operation that produces the emission that has the highest amplitude relative to the limit is selected for the final measurement. This investigation was performed with the EUT rotated 360° , the antenna height scanned between 1m and 4m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. EUT was placed at three different orientations (X, Y and Z axis) in order to find the worst orientation.

Applicable rule and limitation

§15.209 general requirements

Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| | Frequency | Measurement Distance | Field Strength | Field Strength |
|---|-----------|----------------------|----------------|----------------|
| | (MHz) | (m) | (uV/m) | (dBuV/m) |
| | 30 - 88 | 3 | 100 | 40.0 |
| Ī | 88 –216 | 3 | 150 | 43.5 |
| Ī | 216 – 960 | 3 | 200 | 46.0 |
| Ī | Above 960 | 3 | 500 | 53.9 |

In the emission table above, the tighter limit applies at the band edges.

The level of any unwanted emissions from an intentional radiator operating under these general provisions shall not exceed the level of the fundamental emission.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector.

RF Technologies Ltd. Page 11 of 18



Model: F-06B

Test equipment used (refer to List of utilized test equipment)

| AC01 | BA04 | CL11 | PR03 | TR06 |
|------|------|------|------|------|

Test results - Complied with requirement.

Test Data

Tested Date: 21 February, 2010 Temperature: 16 °C

Humidity: 29 %

Atmos. Press: 1021 hPa

Operating mode: Continuous Communication

EUT position: X-plane / Swing style (Maximum position)

Measurement distance: 3 m

§15.225(d) Harmonics and spurious emission between 30MHz to 1000MHz (refer 15.209)

| No. | Frequency [MHz] | Reading [dBuV] | Factor [dB/m] | Loss [dB] | Gain [dB] | Result [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Antenna Polarization |
|-----|-----------------|----------------|---------------|--------------|-----------|-----------------|----------------|----------------|-------------------------|
| 1 | 867.845 | 38.8 | 20.5 | 13.9 | 29.1 | 44.1 | 46.0 | 1.9 | Hori. |
| 2 | 881.406 | 34.9 | 20.6 | 14.0 | 29.0 | 40.5 | 46.0 | 5.5 | Hori. |
| 3 | 894.966 | 37.1 | 20.8 | 14.1 | 29.0 | 43.0 | 46.0 | 3.0 | Hori. |
| 4 | 908.524 | 33.7 | 20.8 | 14.1 | 28.9 | 39.7 | 46.0 | 6.3 | Hori. |
| 5 | 922.086 | 36.6 | 20.9 | 14.2 | 28.8 | 42.9 | 46.0 | 3.1 | Hori. |
| 6 | 935.646 | 33.0 | 21.0 | 14.3 | 28.6 | 39.7 | 46.0 | 6.3 | Hori. |
| 7 | 949.205 | 34.1 | 21.1 | 14.4 | 28.5 | 41.1 | 46.0 | 4.9 | Hori. |

Calculation method

The Correction Factors and RESULT are calculated as followings.

Correction Factor [dB/m] = FACTOR [dB/m] + CABLE LOSS [dB] – GAIN [dB]

RESULT [dBuV/m] = READING [dBuV] + Correction Factor [dB/m]

Sample calculation at 867.845 MHz Horizontal result as follow:

Result [dBuV/m] = Reading + C.F = 38.8 + 20.5 + 13.9 - 29.1 = 44.1

Margin = Limit – Result = 46.0 - 44.1 = 1.9 [dB]

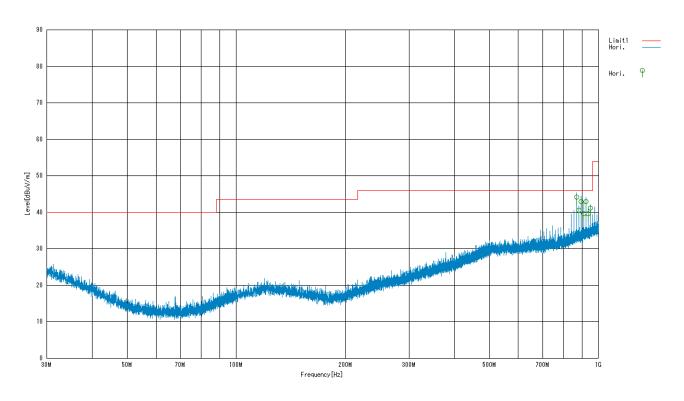
RF Technologies Ltd. Page 12 of 18



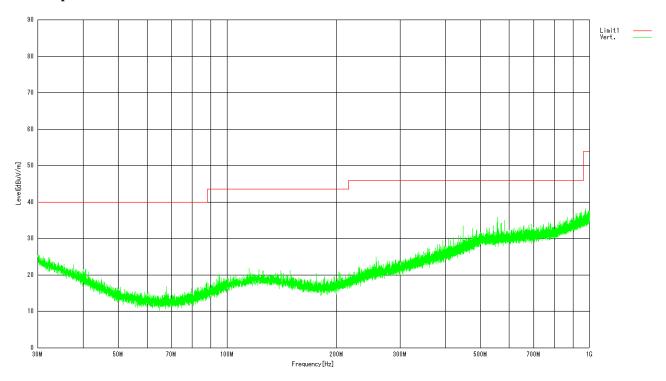
Model: F-06B

Graphical express of test result (30MHz-1000MHz)

Antenna polarization: Horizontal



Antenna polarization: Vertical





Model: F-06B

2.4 Frequency stability

Test setup

Test setup was implemented according to the method of ANSI C63.4: 2003 clauses 13.1.6.1 "Frequency stability measurements", and Annex H.5 "Frequency measurements".

Test procedure

Measurement procedures were implemented according to the test method of ANSI C63.4: 2003 Annex H5.

Place the de-energized EUT in the temperature test chamber. Supply the EUT with nominal ac voltage, or install a new or fully charged battery in the EUT. An antenna was connected to the antenna output connector of the EUT if possible.

The frequency counter was connected to the measurement antenna with a suitable length of coaxial cable.

The environmental chamber set to the highest temperature specified in applicable regulation.

Allow sufficient time (approximately 30 minutes) for the temperature of the chamber to stabilize.

Turn the EUT on and measure the EUT operating frequency at startup, and two, five, and ten minutes after startup. The measurements were performed that the temperature chamber set to reduce the lowest temperature specified in applicable regulation.

Applicable rule and limitation

§15.225(e) Frequency tolerance

| Test items | Variation ranges | Limit |
|------------------------|----------------------|----------|
| Temperature variations | -10 to +55 degrees * | +/-0.01% |

Note1: The above operating range is declared by manufacturer.

Test equipment used (refer to List of utilized test equipment)

| LP51 TC01 | TR04 | |
|-----------|------|--|
|-----------|------|--|

Test results - Complied with requirement.

Test Data

Tested Date: 24 February, 2010

Temperature: 24 °C

Humidity: 32 %

Atmos. Press: 1015 hPa

Operating Mode: Continuous Transmission

Power supply: Full charged Li-ion battery

| Temp. | Voltages | | Measured Free | Worst | Limit | | | | | |
|-------------|--------------------------------|-----------|---------------|-----------|-----------|-----------|---------|--|--|--|
| (Degrees) | (V) | Start-up | 2 min. | 5 min. | 10 min. | Deviation | (%) | | | |
| | | | | | | (%) | | | | |
| Ambient Tem | Ambient Temperatures Variation | | | | | | | | | |
| 55 | DC3.7V | 13.560054 | 13.560055 | 13.560056 | 13.560059 | +0.0004 | +/-0.01 | | | |
| 20 | DC3.7V | 13.560129 | 13.560122 | 13.560188 | 13.560116 | +0.0014 | +/-0.01 | | | |
| 0 | DC3.7V | 13.560202 | 13.560193 | 13.560186 | 13.560183 | +0.0015 | +/-0.01 | | | |
| -10 | DC3.7V | 13.560206 | 13.560212 | 13.560212 | 13.560210 | +0.0016 | +/-0.01 | | | |

RF Technologies Ltd. Page 14 of 18



Model: F-06B

4 List of utilized test equipment/ calibration

| RFT ID No. | Kind of Equipment and Precision | Manufacturer | Model No. | Serial Number | Calibration Date | Calibrated until |
|---------------|-------------------------------------|-----------------|-----------|---------------|---------------------|------------------|
| AC01(EM) | Anechoic Chamber (1st test room) | JSE | 203397C | - | 2009/04/09 | 2010/04/30 |
| BA04 | Bilogical Antenna | SCHAFFNER | CA2855 | 2903 | 2010/01/19 | 2011/01/31 |
| CL11 | Antenna Cable for RE | RFT | - | - | 2009/04/13 | 2010/04/30 |
| LP01 | Loop Antenna | EMCO | 6502 | 3436 | 2009/06/23 | 2010/06/30 |
| PR03 | Pre. Amplifier | Anritsu | MH648A | M41984 | 2009/05/26 | 2010/05/31 |
| TR04 | Test Receiver (F/W: 4.32) | Rohde & Schwarz | ESCI | 100447 | 2009/09/07 | 2010/09/30 |
| TR06 | Test Receiver (F/W: 3.93 SP2) | Rohde & Schwarz | ESU26 | 100002 | 2009/09/16 | 2010/09/30 |
| TC01 | Temperature Chamber | ESPEC | SH-641 | 92000964 | 2009/11/13 | 2010/11/30 |

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.