

TEST REPORT

For

Mobile Phone

In conformity with

FCC Part24E (01 Oct, 2008)

Model: F-06B

FCC ID: VQK-F06B

Test Item: Mobile Phone

Report No: RY1003P04R1

Issue Date: 04 Mar, 2010

Prepared for

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Prepared by

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History

Report No.	Issue Date	Revision Contents	Issued by
RY1003P04R1	04 Mar, 2010	Initial Issue	T.Kato

1 General information

1.1 Product description

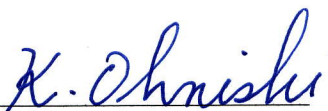
Test item : Mobile phone
Manufacturer : FUJITSU LIMITED
Address : 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki 211-8588,
Japan
Model : F-06B
FCC ID : VQK-F06B
Operating frequency range : TX 1850.2-1909.8 MHz (GSM1900, GPRS Class8)
: RX 1930.2-1989.8 MHz (GSM1900, GPRS Class8)
Type of Modulation : GMSK
Receipt date of EUT : 18 Jan, 2010
Nominal power voltages : 3.7 VDC (Lithium-ion battery)
Power Class : 1 (Maximum power +30dBm nominal)
Antenna Type : Integral antenna
Serial numbers : 3531 6903 0005 678 (for Radiated test)
: 3531 6903 0005 660 (for Conducted test)

1.2 Test(s) performed/ Summary of test result

Applicable Standard(s) : FCC Part24E (01 Oct, 2008)
Test(s) started : 19 Jan, 2010
Test(s) completed : 04 Mar, 2010
Purpose of test(s) : 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 : 
T. Kato (Engineer, EMC testing department)

Reviewer : 
K. Ohnishi (Manager, EMC testing department)

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 01 October, 2008.

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-1

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;

RF frequency: $\pm 1 \times 10^{-7}$

RF power conducted: ± 1.0 dB

AC power line emission: ± 1.9 dB

Radiated emission (30 MHz - 1000 MHz): ± 5.7 dB

Radiated emission (1 GHz - 20 GHz): ± 5.8 dB

Temperature: ± 1 degree

Humidity: ± 5 %

1.5 Description of essential requirements and test results

An overview of radio requirements, as laid out in FCC Part24 are given below.

1.5.1 Transmitter requirements

Test Description	Section in this report	Applicable	Result
Carrier Output Power (Conducted)	2.1	Yes	Passed
Carrier Output Power (Radiated)	2.2	Yes	Passed
Frequency Stability (Temperature Variation)	2.3	Yes	Passed
Frequency Stability (Voltage Variation)	2.4	Yes	Passed
Occupied Bandwidth	2.5	Yes	Passed
Out of Band Emissions (Conducted)	2.6	Yes	Passed
Out of Band Emissions (Radiated)	2.7	Yes	Passed
Band Edge Emissions	2.8	Yes	Passed

1.5.2 AC Power Line Parameters

Test Description	Section in this report	Applicable	Result
AC power line Spurious Emissions (Traffic mode)	2.9	Yes	Passed

1.5.3 Normal test conditions

Temperature(*) : +15 degC to +35 degC
Relative humidity(*) : 20 % to 75 %
Supply voltage : 3.7 VDC (Nominal)
Measurement Frequency : 1850.2 MHz(512ch), 1880.0 MHz(661ch), 1909.8 MHz(810ch)

* When it is impracticable to carry out tests under these conditions, a note to this effect, stating the ambient temperature and relative humidity during the tests, must be stated separately.

1.5.4 Extreme test conditions

Temperature : -30 °C (min) to +50 °C (max)
Supply voltage : 3.33 VDC (min) to 4.07 VDC (max)
The equipment has a function that it is automatically turned off when min. battery voltage (3.33 V) is detected.

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.	FCC ID
A	Mobile phone	FUJITSU LIMITED	F-06B	3531 6903 0005 678	VQK-F06B
B	Mobile phone	FUJITSU LIMITED	F-06B (RF cable is attached instead of integral antenna)	3531 6903 0005 660	VQK-F06B
C	Battery pack	FUJITSU LIMITED	F16	None	N/A

Support Equipment(s):

	Item	Manufacturer	Model No.	Serial No.	FCC ID
D	AC adapter	FUJITSU LIMITED	FOMA AC adapter02	None	N/A

Connected cable(s):

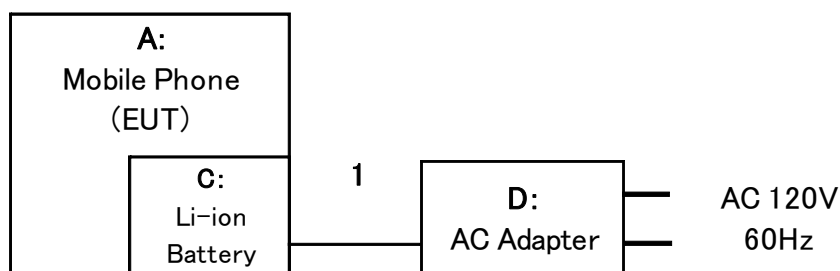
No.	Item	Identification (Manu.e.t.c)	Shielded Yes / No	Ferrite Core Yes / No	Connector Type Shielded Yes / No	Length (m)
1	DC power cable	-	No	No	No	2.32

1.6.2 Operating condition:

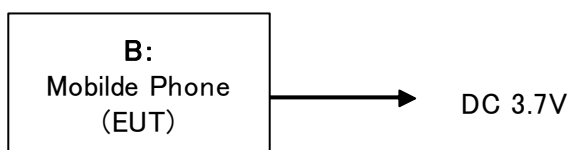
Traffic mode : EUT is connected with RF tester in Max power level. (Normal and GPRS mode)
Idle mode : EUT is under idle mode, no output power is transmitted.

1.6.3 Setup diagram of tested system:

[Configuration I]



[Configuration II]



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.

2 Test procedure and result

2.1 Carrier Output Power (Conducted)

Reference Standard

Part24.232, 2.1046

Test Conditions

Date: 19 Jan, 2010
Ambient Temperature: 17 degC
Relative humidity: 29 %
Test Voltage: 3.7 V

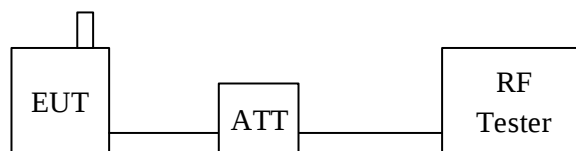
Test Sample

Configuration II

Test Method

- EUT is connected to RF tester with pseudo random data modulation and set to maximum output power level.
- The peak output power is measured with RF tester (CMU200 etc.).

Test Setup



Test Results

Channel	Frequency [MHz]	Output Power [dBm]		Limit [dBm]	Result
		Normal	GPRS		
Bottom (512ch)	1850.2	30.3	30.3	33.0	Pass
Middle (661ch)	1880.0	30.1	30.1	33.0	Pass
Top (810ch)	1909.8	30.4	30.4	33.0	Pass

Test Equipment Used

Equipment name	RFT ID No.
RF tester	RC03
RF cable	CL27

Final Result

The EUT met the requirements of the standard for this test.

EUT can employ a power control function that output power can be controlled from +30dBm to +0dBm (nominal) by 2dB step. So EUT meet the requirement of Part24.232(c).

2.2 Carrier Output Power (Radiated)

Reference Standard

Part24.232, 2.1046

Test Conditions

Date: 03 Feb, 2010
Ambient Temperature: 17 degC
Relative humidity: 33 %
Test Voltage: 3.7 V

Test Sample

Configuration I

Test Method

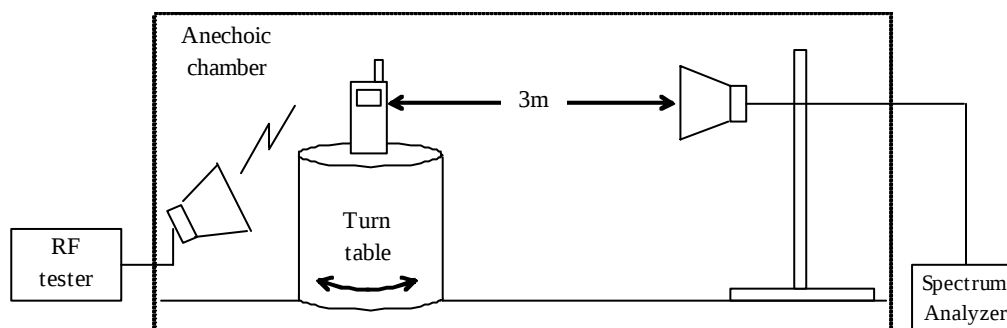
Substitution method is used for this test.

- a) EUT is set on non-conducting table and the output power is set to the maximum level.
- b) As a receive antenna, Horn antenna is used.
- c) Maximum peak power is measured by a spectrum analyzer(SA) in below conditions.
 - Turntable is rotated 360 degrees.
 - The height of receive antenna is changed from 1m to 4m.
 - Receive antenna polarization is set to vertical and horizontal.
 - This maximum peak power is recorded.
 - During this measurement, receive antenna is adjusted the direction to keep the EUT within the beamwidth of receive antenna.
- d) Reference antenna is replaced with EUT, and connected with signal generator(SG).
 - SG output power is adjusted to get same level as the recorded maximum radiated EUT power by SA.
- e) Radiated output power (Pout) is calculated with adjusted SG output (Psg) [dBm], reference antenna gain (Gref) [dBi] and cable loss between SG and reference antenna (Lcab) [dB].

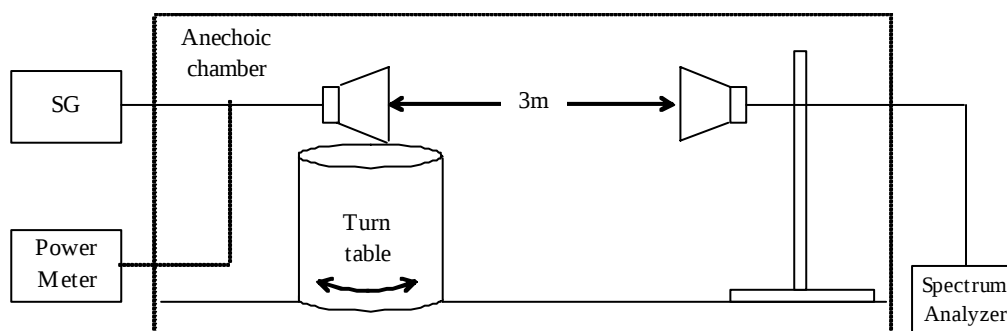
$$P_{out} [\text{dBm e.i.r.p}] = P_{sg} + G_{ref} + L_{cab}$$

Test Setup

[Measurement]



[Substitution]



Test Results

Channel	Frequency [MHz]	Output Power[dBm]		Limit [dBm e.i.r.p]	Result
		Normal	GPRS		
Bottom (512ch)	1850.2	27.6	27.0	33.0	Pass
Middle (661ch)	1880.0	27.4	27.1	33.0	Pass
Top (810ch)	1909.8	26.4	26.2	33.0	Pass

Test Equipment Used

Equipment name	RFT ID No.
Spectrum Analyzer	TR06
Receive Antenna	DH02
Reference Antenna	DH01
RF cable	CL24
Signal Generator	SG05
Power Meter	PM03
Power Sensor	PU03
RF tester	RC03

Final Result

The EUT met the requirements of the standard for this test.

2.3 Frequency Stability (Temperature)

Reference Standard

Part24.235, 2.1055

Test Conditions

Date: 26 Jan, 2010
Ambient Temperature: 16 degC
Relative humidity: 29 %
Test Voltage: 3.7 V

Test Sample

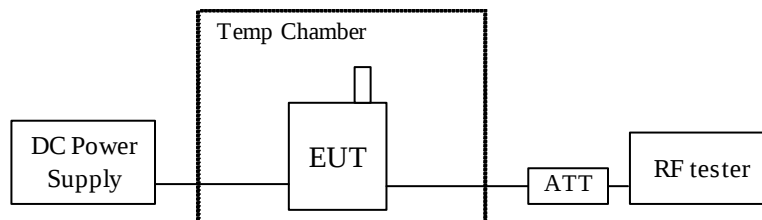
Configuration II

Test Method

To measure the carrier frequency, "Frequency error measurement" function of RF tester is used.

- a) EUT is hold about 30 minutes under measurement temperature condition.
- b) EUT is powered on with nominal voltage.
- c) EUT is connected to RF tester with Max transmit power level.
- d) Frequency error is measured by RF tester for 10 minutes.
- e) Process a) to d) is repeated at 10deg increments from -30 to +50degC.

Test Setup



Test Results**Middle Channel (661ch, Nominal Freq.:1880.0MHz)**

Temperature [deg C]	Frequency Error [Hz]	Frequency Error [ppm]	Limit [ppm]	Result
-30	-58	-0.03	± 2.5	Passed
-20	-71	-0.04	± 2.5	Passed
-10	-70	-0.04	± 2.5	Passed
0	-67	-0.04	± 2.5	Passed
10	-73	-0.04	± 2.5	Passed
20	-69	-0.04	± 2.5	Passed
30	-69	-0.04	± 2.5	Passed
40	-74	-0.04	± 2.5	Passed
50	-74	-0.04	± 2.5	Passed

Test Equipment Used

Equipment name	RFT ID No.
RF tester	RC03
Temp chamber	TC01

Final Result

The EUT met the requirements of the standard for this test

2.4 Frequency Stability (Voltage)

Reference Standard

Part24.235, 2.1055

Test Conditions

Date: 26 Jan, 2010
Ambient Temperature: 19 degC
Relative humidity: 29 %
Test Voltage: 3.33 to 4.07 V

Test Sample

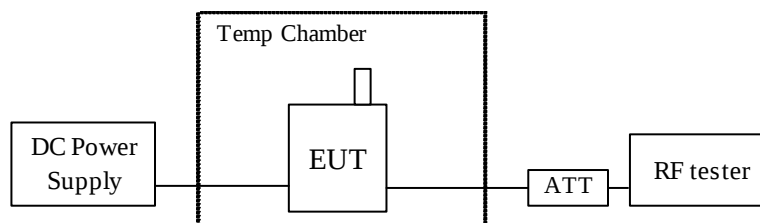
Configuration II

Test Method

To measure the carrier frequency, "Frequency error measurement" function of RF tester is used.

- EUT is powered on with nominal voltage. Temperature is 20degC.
- EUT is connected to RF tester with Max transmitter power level.
- Frequency error is measured by RF tester for 10 minutes.
- Process a) to c) is repeated at minimum and maximum voltage condition.

Test Setup



Test Results**Middle Channel (661ch, Nominal Freq.:1880.0MHz)**

Voltage [V]	Frequency Error [Hz]	Frequency Error [ppm]	Limit [ppm]	Result
3.33	-76	-0.04	± 2.5	Passed
3.70	-69	-0.04	± 2.5	Passed
4.07	-68	-0.04	± 2.5	Passed

Test Equipment Used

Equipment name	RFT ID No.
RF tester	RC03
Temp chamber	TC01

Final Result

The EUT met the requirements of the standard for this test

2.5 Occupied Bandwidth

Reference Standard

Part24.238

Test Conditions

Date: 19 Jan, 2010
Ambient Temperature: 17 degC
Relative humidity: 29 %
Test Voltage: 3.7 V

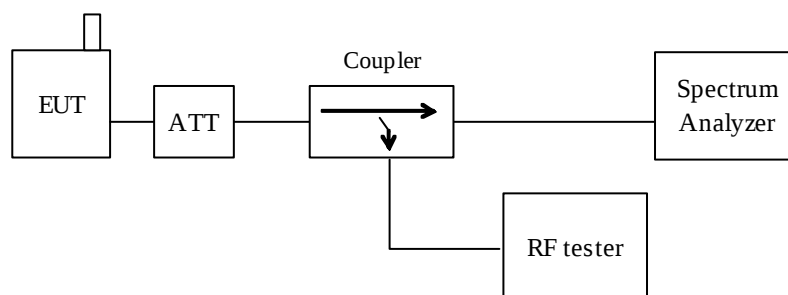
Test Sample

Configuration II

Test Method

- a) EUT is connected to RF tester with Max transmitter power level.
- b) 26dB bandwidth is measured by Spectrum Analyzer.
- c) 99% occupied bandwidth of transmitter spectrum is measured by Spectrum Analyzer.

Test Setup



Test Results

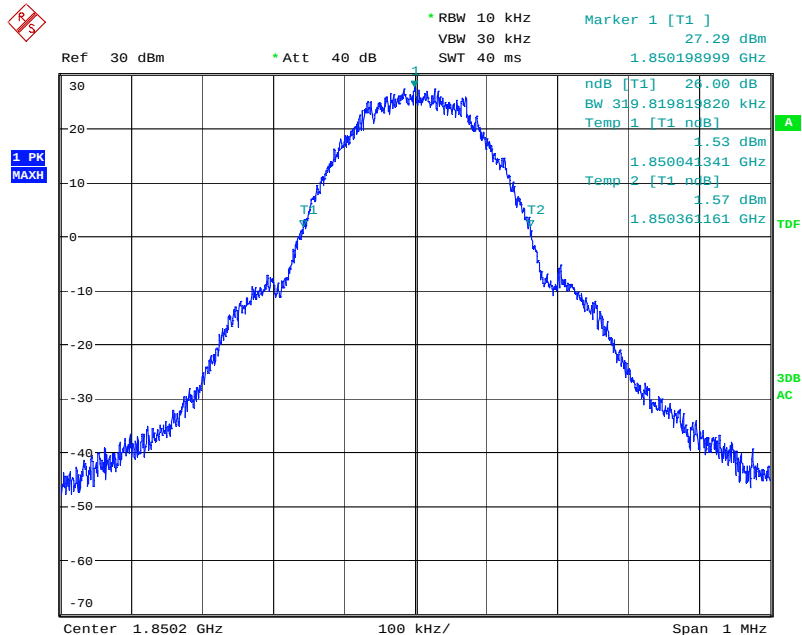
26dB Bandwidth

Channel	Frequency [MHz]	26dB Bandwidth [kHz]
Bottom (512ch)	1850.2	320
Middle (661ch)	1880.0	317
Top (810ch)	1909.8	317

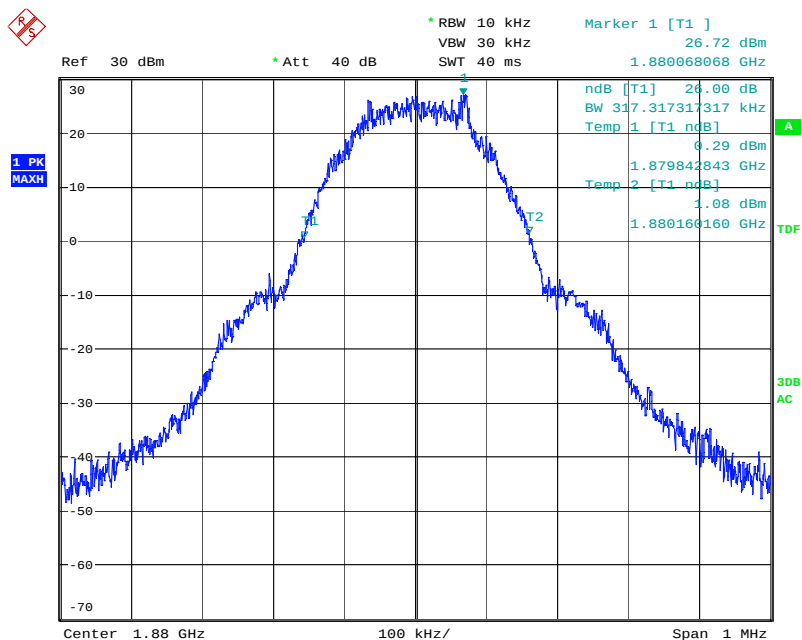
99% Bandwidth

Channel	Frequency [MHz]	99% Bandwidth [kHz]
Bottom (512ch)	1850.2	249
Middle (661ch)	1880.0	247
Top (810ch)	1909.8	250

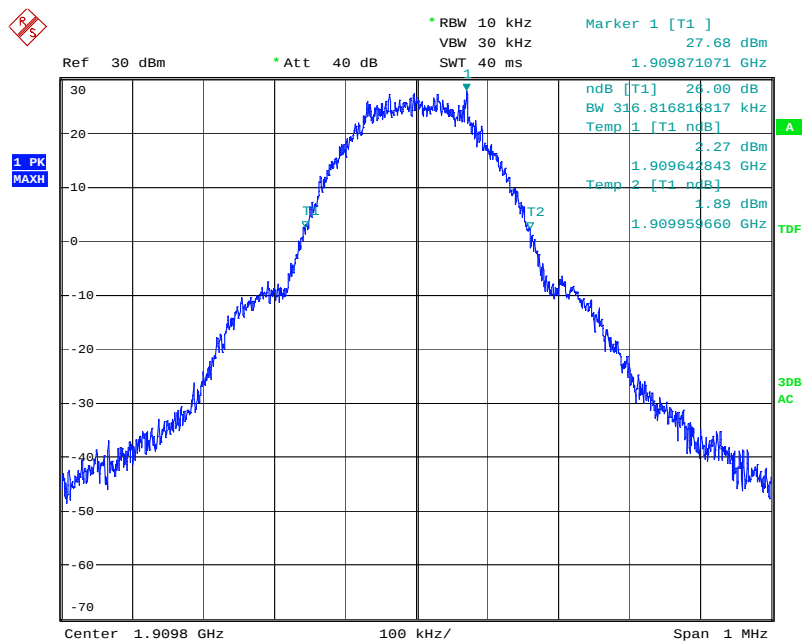
Graphical Data



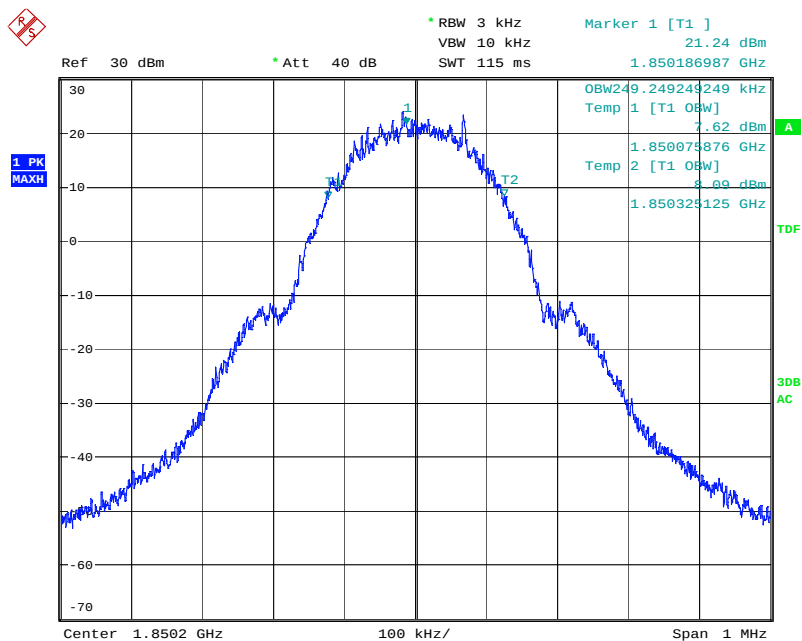
512ch 26dB Bandwidth



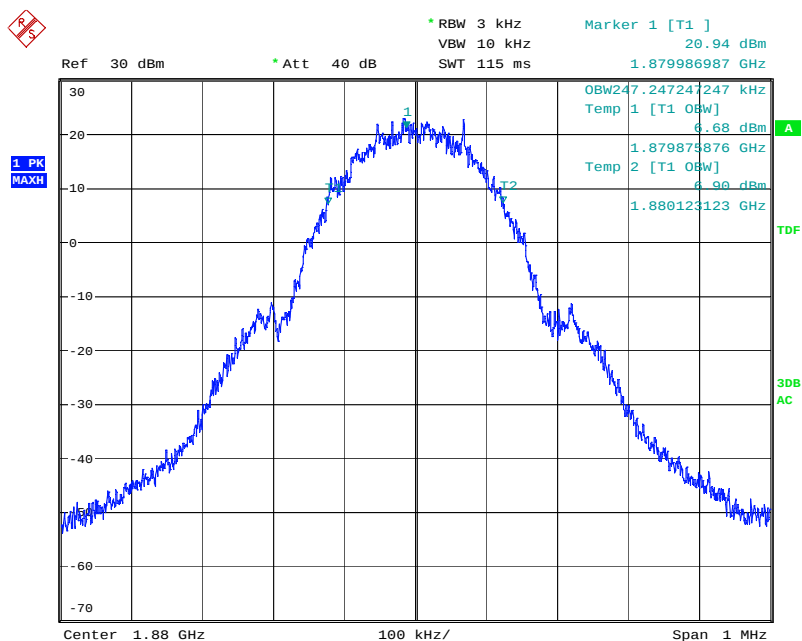
661ch 26dB Bandwidth



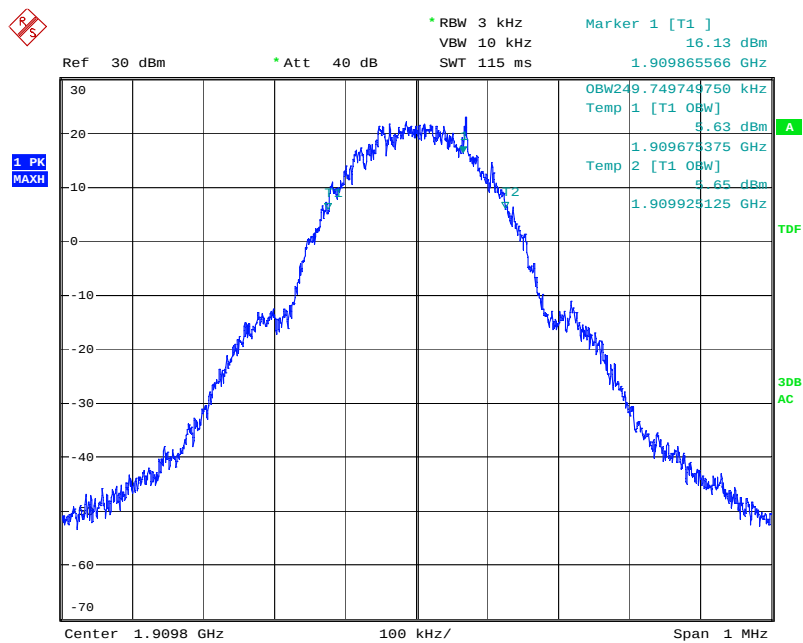
810ch 26dB Bandwidth



512ch Occupied Bandwidth



661ch Occupied Bandwidth



810ch Occupied Bandwidth

Test Equipment Used

Equipment name	RFT ID No.
Spectrum Analyzer	TR06
RF tester	RC03
RF cable	CL27
Directional Coupler	DC01

2.6 Transmitter Out of Band Spurious Emissions (Conducted)

Reference Standard

Part24.238

Test Conditions

Date: 19 Jan, 2010
Ambient Temperature: 17 degC
Relative humidity: 29 %
Test Voltage: 3.7 V

Test Sample

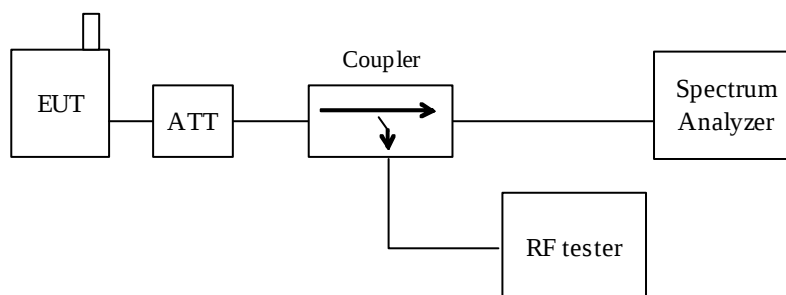
Configuration II

Test Method

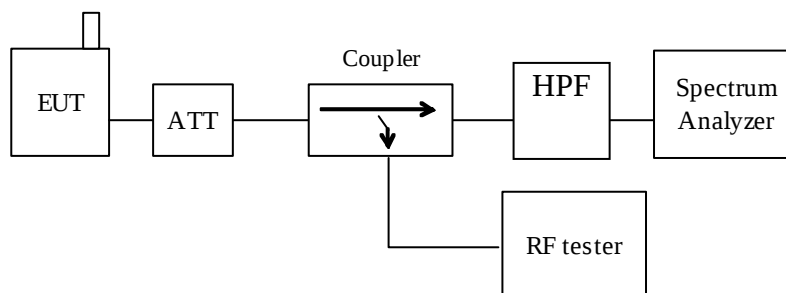
- EUT is connected to RF tester with Max transmitter power level.
- Out of band Spurious is measured by Spectrum Analyzer.
- Resolution band width of spectrum analyzer is set to 1MHz (above 1GHz) or 100kHz (below 1GHz).

Test Setup

30MHz to 3500MHz



above 3500MHz



Test Results**Bottom Channel (512ch, Nominal Freq.:1850.2MHz)**

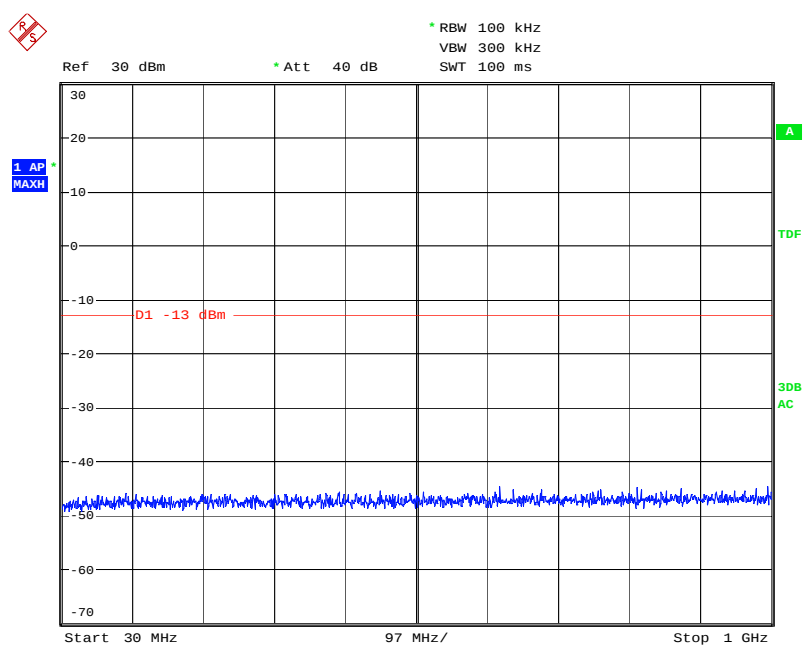
Measurement Frequency [MHz]	Measurement Bandwidth [MHz]	Emission Level [dBm]	Limit [dBm]	Result Pass/Fail
3700.4	1	-44.4	-13.0	Pass
5550.6	1	-50.8	-13.0	Pass
7400.8	1	-60.1	-13.0	Pass
9251.0	1	-57.0	-13.0	Pass
11101.2	1	-58.7	-13.0	Pass
12951.4	1	-59.8	-13.0	Pass
14801.6	1	< -60.0	-13.0	Pass
16651.8	1	< -60.0	-13.0	Pass
18502.0	1	< -60.0	-13.0	Pass
others		-	-13.0	Pass

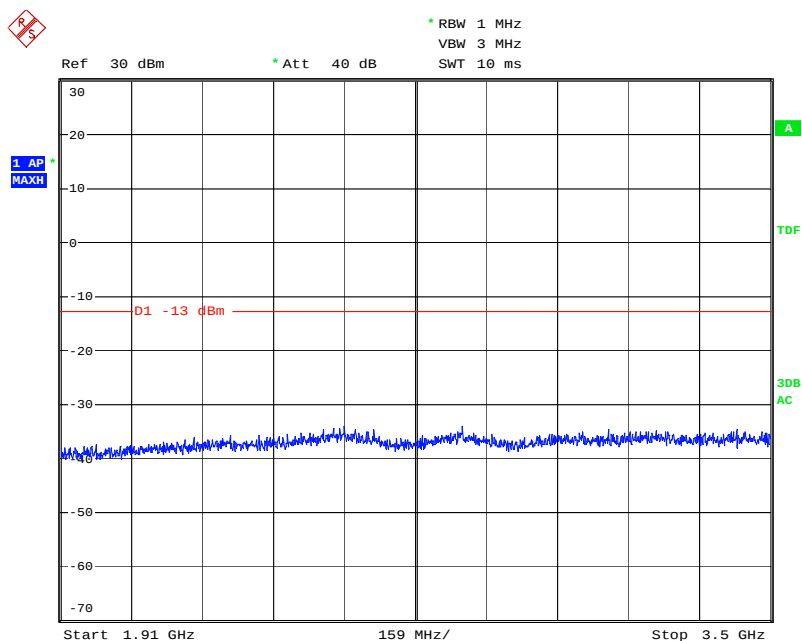
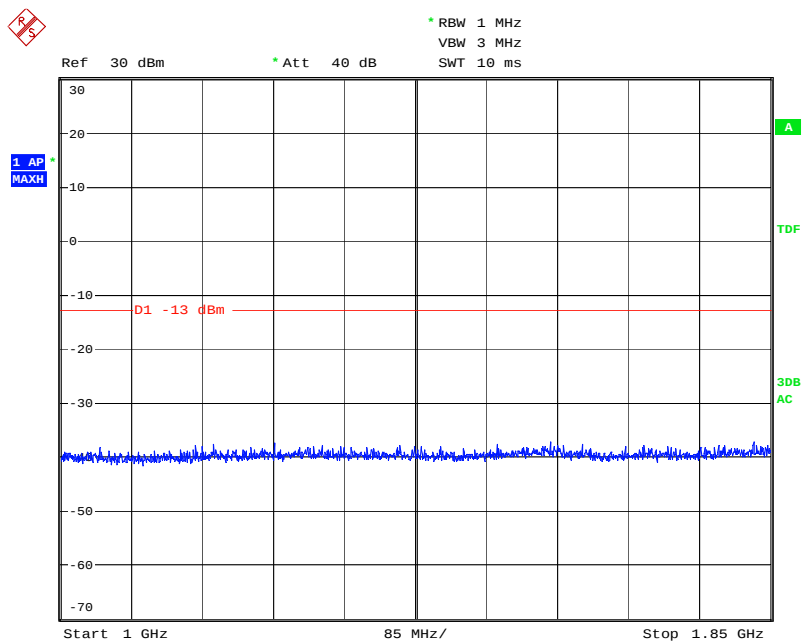
Middle Channel (661ch, Nominal Freq.:1880.0MHz)

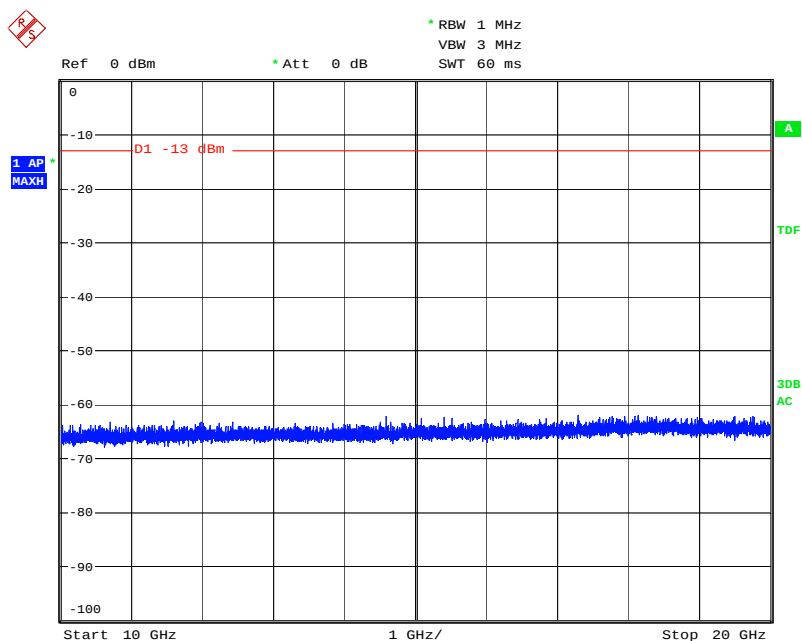
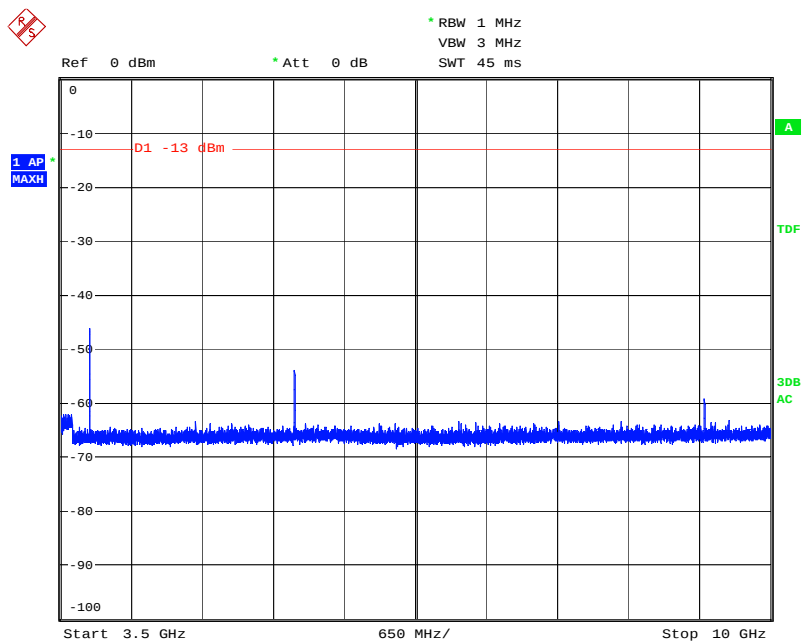
Measurement Frequency [MHz]	Measurement Bandwidth [MHz]	Emission Level [dBm]	Limit [dBm]	Result Pass/Fail
3760.0	1	-46.0	-13.0	Pass
5640.0	1	-53.4	-13.0	Pass
7520.0	1	< -60.0	-13.0	Pass
9400.0	1	-57.4	-13.0	Pass
11280.0	1	< -60.0	-13.0	Pass
13160.0	1	< -60.0	-13.0	Pass
15040.0	1	< -60.0	-13.0	Pass
16920.0	1	< -60.0	-13.0	Pass
18800.0	1	< -60.0	-13.0	Pass
others		-	-13.0	Pass

Top Channel (810ch, Nominal Freq.:1909.8MHz)

Measurement Frequency [MHz]	Measurement Bandwidth [MHz]	Emission Level [dBm]	Limit [dBm]	Result Pass/Fail
3819.6	1	-45.5	-13.0	Pass
5729.4	1	-54.6	-13.0	Pass
7639.2	1	< -60.0	-13.0	Pass
9549.0	1	-58.5	-13.0	Pass
11458.8	1	< -60.0	-13.0	Pass
13368.6	1	< -60.0	-13.0	Pass
15278.4	1	< -60.0	-13.0	Pass
17188.2	1	< -60.0	-13.0	Pass
19098.0	1	< -60.0	-13.0	Pass
others		-	-13.0	Pass

Graphical Data (661ch, Pre-scan data)





Test Equipment Used

Equipment name	RFT ID No.
Spectrum Analyzer	TR06
RF tester	RC03
RF cable	CL27
High pass filter	HPF1
Directional coupler	DC01

Final Result

The EUT met the requirements of the standard for this test.

2.7 Transmitter Out of Band Spurious Emissions (Radiated)

Reference Standard

Part24.238

Test Conditions

Date: 28 Jan and 23 Feb, 2010 (Above 1GHz), 03 Feb, 2010 (Below 1GHz)
Ambient Temperature: 18degC (28 Jan), 17degC (03 Feb), 19degC (23 Feb)
Relative humidity: 32 % (28 Jan), 33 % (03 Feb), 31 % (23 Feb)
Test Voltage: 3.7 V

Test Sample

Configuration I

Test Method

Substitution method is used for this test.

- a) EUT is set on non-conducting turntable and the output power is set to the maximum level.
- b) As a receive antenna, Horn antenna is used for high frequency range (above 1GHz), and Bilogical antenna is used for low frequency range (30MHz to 1GHz).
- c) The maximum level of each spurious emission is measured by a spectrum analyzer(SA) in below conditions.

Turntable is rotated 360 degrees.

The height of receive antenna is changed from 1m to 4m.

Receive antenna polarization is set to vertical and horizontal.

EUT was placed at three different orientations (X, Y and Z axis) in order to find the worst orientation.

This emission level is recorded.

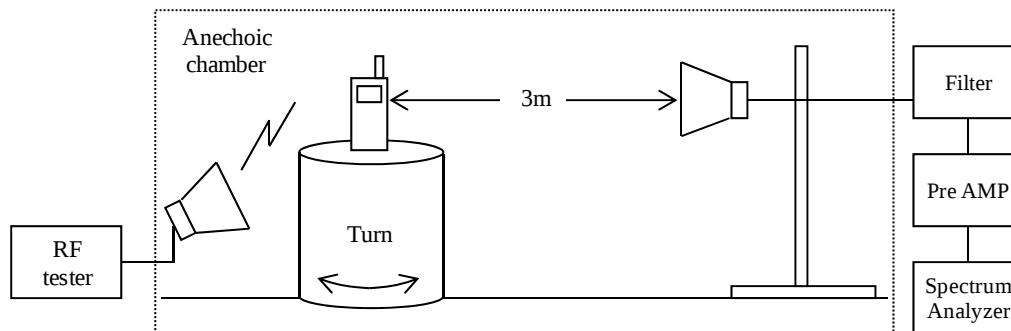
During this measurement, receive antenna is adjusted the direction to keep the EUT within the beamwidth of receive antenna.

- d) Reference antenna is replaced with EUT, and connected with signal generator(SG). SG output power is adjusted to get same level as the recorded maximum radiated EUT power by SA.
- e) Radiated output power (Pout) is calculated with adjusted SG output (Psg) [dBm], reference antenna gain (Gref) [dBd] and cable loss between SG and reference antenna (Lcab) [dB].

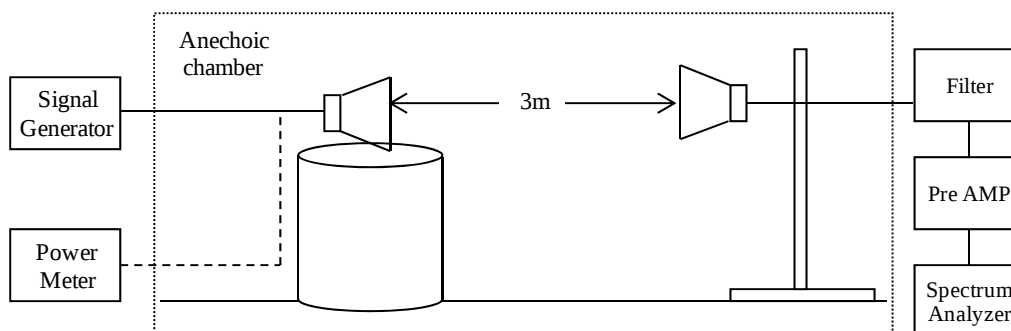
$$P_{out} [\text{dBm e.r.p}] = P_{sg} + G_{ref} + L_{cab}$$

Test Setup

[Measurement]



[Substitution]



Test Results**Bottom Channel (512ch, Nominal Freq.:1850.2MHz)**

Measurement Frequency [MHz]	Measurement Bandwidth [MHz]	Emission Level [dBm]		Limit [dBm]	Result Pass/Fail
		Vertical	Horizontal		
3700.4	1	-40.1	-40.2	-13.0	Pass
5550.6	1	-41.7	-43.0	-13.0	Pass
7400.8	1	-43.0	-43.8	-13.0	Pass
9251.0	1	-34.2	-33.1	-13.0	Pass
11101.2	1	-38.9	-40.6	-13.0	Pass
12951.4	1	< -42.6	< -42.6	-13.0	Pass
14801.6	1	< -40.2	< -40.2	-13.0	Pass
16651.8	1	< -36.2	< -36.2	-13.0	Pass
18502.0	1	< -37.0	< -37.0	-13.0	Pass
3860.4	1	-46.6	-47.0	-13.0	Pass

Middle Channel (661ch, Nominal Freq.:1880.0MHz)

Measurement Frequency [MHz]	Measurement Bandwidth [MHz]	Emission Level [dBm]		Limit [dBm]	Result Pass/Fail
		Vertical	Horizontal		
3760.0	1	-39.8	-38.1	-13.0	Pass
5640.0	1	-40.6	-39.9	-13.0	Pass
7520.0	1	-43.4	-43.6	-13.0	Pass
9400.0	1	-37.0	-34.7	-13.0	Pass
11280.0	1	-38.6	-40.6	-13.0	Pass
13160.0	1	< -42.0	< -42.0	-13.0	Pass
15040.0	1	< -38.0	< -38.0	-13.0	Pass
16920.0	1	< -36.1	< -36.1	-13.0	Pass
18800.0	1	< -37.1	< -37.1	-13.0	Pass
3920.0	1	-47.6	-46.5	-13.0	Pass

Top Channel (810ch, Nominal Freq.:1909.8MHz)

Measurement Frequency [MHz]	Measurement Bandwidth [MHz]	Emission Level [dBm]		Limit [dBm]	Result Pass/Fail
		Vertical	Horizontal		
3819.6	1	-38.0	-37.9	-13.0	Pass
5729.4	1	-40.2	-37.6	-13.0	Pass
7639.2	1	-42.7	-44.2	-13.0	Pass
9549.0	1	-36.3	-33.8	-13.0	Pass
11458.8	1	-39.8	-40.6	-13.0	Pass
13368.6	1	< -40.8	< -40.8	-13.0	Pass
15278.4	1	< -39.1	< -39.1	-13.0	Pass
17188.2	1	< -35.5	< -35.5	-13.0	Pass
19098.0	1	< -36.2	< -36.2	-13.0	Pass
3979.6	1	-47.8	-47.4	-13.0	Pass

Test Equipment Used

Equipment name	RFT ID No.
Spectrum Analyzer	TR06
Receive Antenna	BA04, DH02, SH02
Reference Antenna	DH01, SH01
Signal Generator	SG05
Power Meter	PM03
Power sensor	PU03
RF tester	RC03
RF cable	CL11, CL23, CL24, CL27
Filter	BRF6, HPF1

Final Result

The EUT met the requirements of the standard for this test.

2.8 Band Edge Emissions

Reference Standard

Part24.238

Test Conditions

Date: 19 Jan, 2010
Ambient Temperature: 17 degC
Relative humidity: 29 %
Test Voltage: 3.7 V

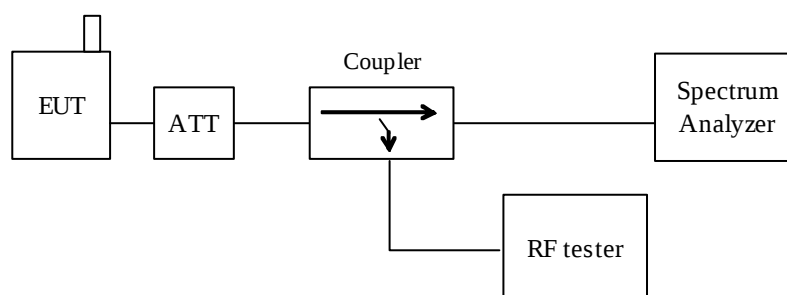
Test Sample

Configuration II

Test Method

- EUT is connected to RF tester with Max transmitter power level.
- Lower band edge level is measured in bottom channel transmission.
- Higher band edge level is measured in top channel transmission.
- 1% of band width is used for resolution band width for spectrum analyzer.

Test Setup



Test Results

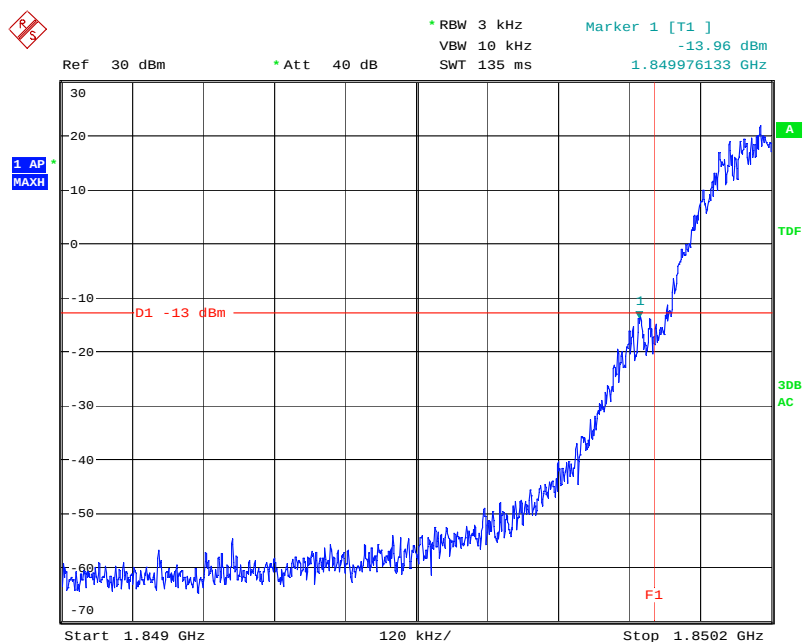
Bottom Band Edge

Measured Frequency [MHz]	Peak Level [dBm]	Limit [dBm]	Result
1849.976	-13.9	-13.0	Passed

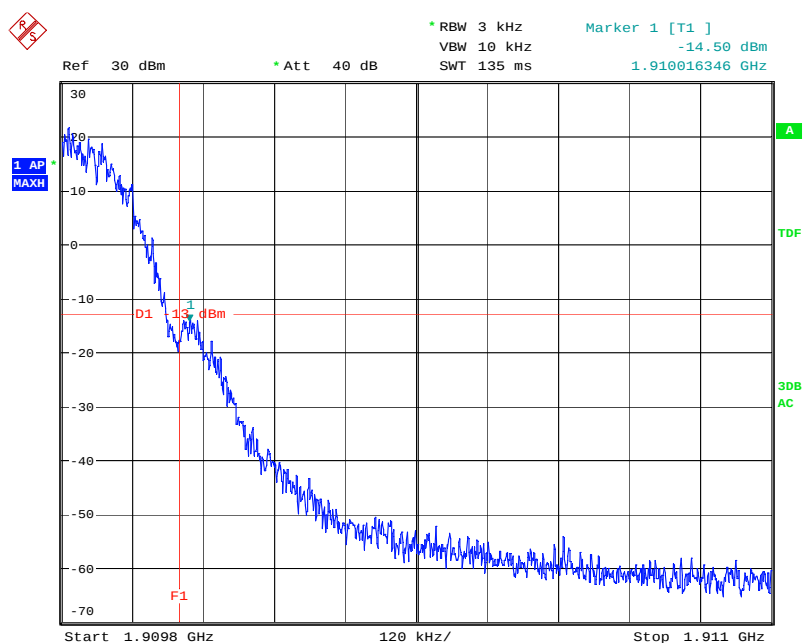
Top Band Edge

Measured Frequency [MHz]	Peak Level [dBm]	Limit [dBm]	Result
1910.016	-14.5	-13.0	Passed

Graphical Data



Bottom band edge



Top band edge

Test Equipment Used

Equipment name	RFT ID No.
Spectrum Analyzer	TR06
RF tester	RC03
RF cable	CL27
Directional Coupler	DC01

Final Result

The EUT met the requirements of the standard for this test.

2.9 Transmitter AC Power Line Emission requirement

Reference Standard

Part15.207

Test Conditions

Date: 04 Mar, 2010
Ambient Temperature: 20 degC
Relative humidity: 54 %
Test Voltage: 3.7 V

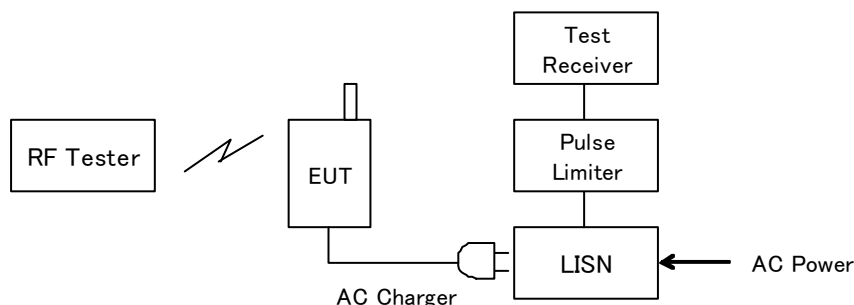
Test Sample

Configuration I

Test Method

- EUT is connected to RF tester with Max transmitter power level.
 - AC power is supplied to AC charger through LISN.
 - AC charger is connected to EUT.
 - AC Line conducted emission is measured by EMI receiver.
- Both Va/Vb line are measured emission level.

Test Setup

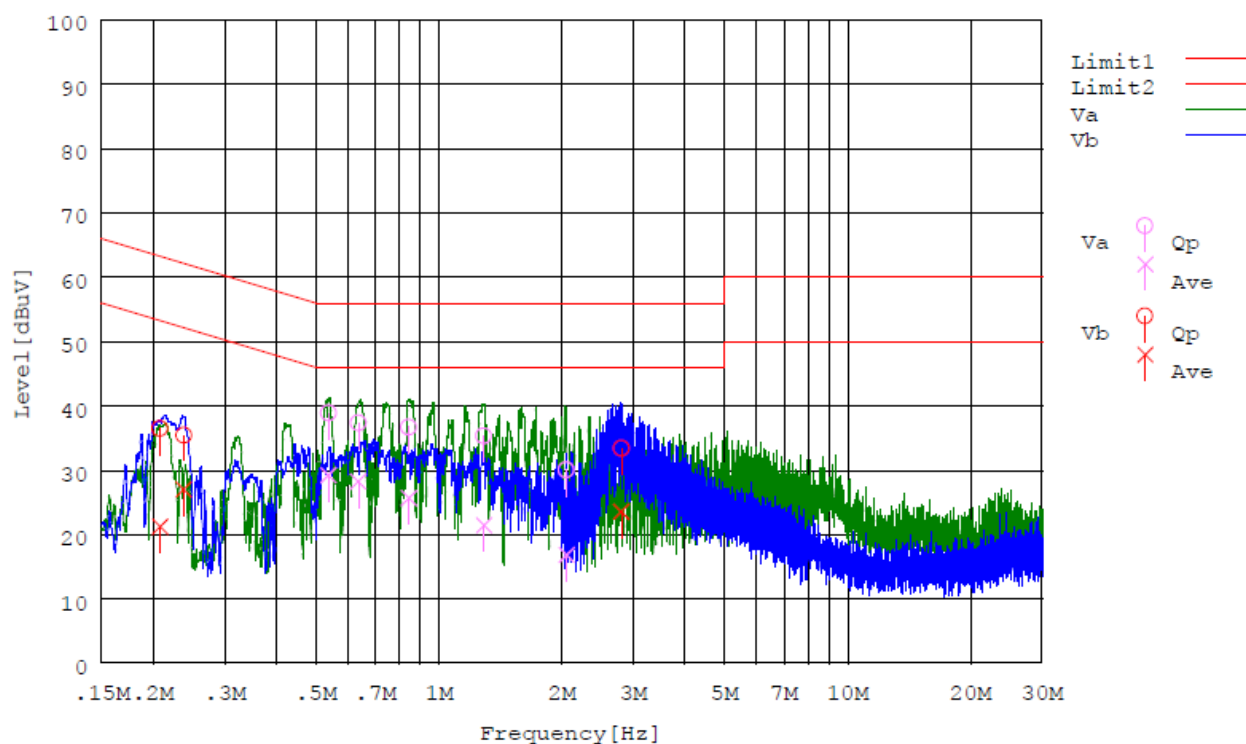


Limit

Frequency [MHz]	Limit QP [dBμV]	Limit AVE [dBμV]
0.15 - 0.5	66 - 56	56 - 46
0.5 - 5	56	46
5 - 30	60	50

Test Results

Frequency [MHz]	Line (Va/Vb)	QP Reading [dBμV]	AVE Reading [dBμV]	Factor [dB]	QP Result [dBμV]	AVE Result [dBμV]	QP Limit [dBμV]	AVE Limit [dBμV]	Result
0.537	Va	38.8	29.2	0.1	38.9	29.3	56.0	46.0	Passed
0.636	Va	37.3	28.2	0.1	37.4	28.3	56.0	46.0	Passed
0.845	Va	36.6	25.6	0.1	36.7	25.7	56.0	46.0	Passed
1.292	Va	35.3	21.4	0.1	35.4	21.5	56.0	46.0	Passed
2.054	Va	30.0	16.8	0.1	30.1	16.9	56.0	46.0	Passed
0.208	Vb	36.4	21.2	0.1	36.5	21.3	63.3	53.3	Passed
0.238	Vb	35.4	27.0	0.1	35.5	27.1	62.2	52.2	Passed
2.802	Vb	33.3	23.5	0.1	33.4	23.6	56.0	46.0	Passed

Graphical Data**Test Equipment Used**

Equipment name	RFT ID No.
EMI Receiver	TR04
LISN	LN13
RF tester	RC03
RF cable	CL18

Final Result

The EUT met the requirements of the standard for this test

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	-	2009/4/9	2010/4/30
AC01(EG)	Anechoic Chamber (1st test room)	JSE	203397C	-	2009/11/14	2010/11/30
BA04	Biological Antenna	SCHAFFNER	CA2855	2903	2010/1/19	2011/1/31
BRF6	Band Reject Filter (GSM1900)	M-City	BRF1880-02	RF0006-02	2009/9/18	2010/9/30
CL11	Antenna Cable for RE	RFT	-	-	2009/4/13	2010/4/30
CL18	Antenna Cable for CE	RFT	-	-	2009/5/21	2010/5/31
CL23	RF Cable 0.5m	SUCOFLEX	SF104PE	48773/4PE	2009/6/25	2010/6/30
CL24	RF Cable 5.0m	SUCOFLEX	SF104PE	48775/4PE	2009/6/25	2010/6/30
CL27	RF Cable 0.5m	SUCOFLEX	SF104	230286/4	2009/6/29	2010/6/30
DC01	Directional Coupler	KRYTAR	1850	77202	2009/5/18	2010/5/31
HPF1	High Pass Filter (3500MHz)	TOKIMEC	TF323DCA	603	2009/6/25	2010/6/30
LN13	LISN	Kyoritsu	KNW-407F	8-2003-3	2009/7/22	2010/7/31
PM03	Power Meter	Anritsu	ML2438A	99070001	2009/7/21	2010/7/31
PR03	Pre. Amplifier	Anritsu	MH648A	M41984	2009/5/26	2010/5/31
PR12	Pre. Amplifier (1-26G)	Agilent Technologies	8449B	3008A02513	2010/1/25	2011/1/31
PU03	Power Sensor	Anritsu	MA2472A	990103	2009/7/21	2010/7/31
SH01	Standard Horn Antenna (18-26G)	A.H. Systems	SAS-572	208	2008/7/23	2010/7/31
SH02	Standard Horn Antenna (18-26G)	A.H. Systems	SAS-572	209	2008/7/23	2010/7/31
TR04	Test Receiver (F/W : 4.32)	Rohde & Schwarz	ESCI	100447	2009/9/7	2010/9/30
TR06	Test Receiver (F/W : 3.93 SP2)	Rohde & Schwarz	ESU26	100002	2009/9/16	2010/9/30
DH01	DRG Horn Antenna	A.H. Systems	SAS-571	785	2010/1/20	2012/1/31
DH02	DRG Horn Antenna	A.H. Systems	SAS-200/571	239	2009/4/13	2011/4/30
RC03	Radio communication tester (F/W : 10.20 #005)	Anritsu	MT8820B	6200636657	2009/6/26	2010/6/30
SG05	Signal Generator	Rohde & Schwarz	SMR20	100905	2009/6/18	2010/6/30
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.