

# FCC TEST REPORT

## (PART 22)

**REPORT NO.:** RF120405C14-1

**MODEL NO.:** FJI13

**FCC ID:** YUW-FJI13

**RECEIVED:** Apr. 05, 2012

**TESTED:** Apr. 18 ~ May 29, 2012

**ISSUED:** Jun. 01, 2012

**APPLICANT:** Fujitsu Mobile Communications Ltd.

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**ISSUED BY:** Bureau Veritas Consumer Products Services  
(H.K.) Ltd., Taoyuan Branch

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Taipei City, Taiwan ( R.O.C. )

**TEST LOCATION:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei  
Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF120405C14-1	Original release	Jun. 01, 2012



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## 1 CERTIFICATION

**PRODUCT:** CDMA FJI13

**MODEL:** FJI13

**BRAND:** Fujitsu Mobile Communications Ltd.

**APPLICANT:** Fujitsu Mobile Communications Ltd.

**TESTED:** Apr. 18 ~ May 29, 2012

**TEST SAMPLE:** Production Unit

**STANDARDS:** FCC PART 22, Subpart H

The above equipment (model: FJI13) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**PREPARED BY** : Ivonne Wu , **DATE** : Jun. 01, 2012  
Ivonne Wu / Senior Specialist

**APPROVED BY** : Gary Chang , **DATE** : Jun. 01, 2012  
Gary Chang / Technical Manager

## 2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 22 & Part 2			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
2.1046 22.913 (a)	Effective radiated power	PASS	Meet the requirement of limit.
2.1055 22.355	Frequency Stability	PASS	Meet the requirement of limit.
2.1049	Occupied Bandwidth	PASS	Meet the requirement of limit.
22.917	Band Edge Measurements	PASS	Meet the requirement of limit.
2.1051 22.917	Conducted Spurious Emissions	PASS	Meet the requirement of limit.
2.1053 22.917	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -36.76dB at 2509.20MHz.

### 2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	150kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	2.93 dB
	200MHz ~1000MHz	2.95 dB
	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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## 2.2 TEST SITE AND INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver Agilent	N9038A	MY51210203	Dec. 22, 2011	Dec. 21, 2012
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 21, 2011	Dec. 20, 2012
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Dec. 20, 2011	Dec. 19, 2012
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Dec. 20, 2011	Dec. 19, 2012
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 20, 2011	Dec. 19, 2012
Preamplifier EMCI	EMC 012645	980115	Dec. 30, 2011	Dec. 29, 2012
Preamplifier EMCI	EMC 330H	980112	Dec. 30, 2011	Dec. 29, 2012
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4	Oct. 21, 2011	Oct. 20, 2012
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Jan. 02, 2012	Jan. 01, 2013
RF signal cable Worken	RG-213	NA	Jan. 02, 2012	Jan. 01, 2013
Software	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA
Mini-Circuits Power Splitter	ZN2PD-9G	NA	Mar. 23, 2012	Mar. 22, 2013
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA
Communications Tester-Wireless	E5515C	MY50266653	Sep. 28, 2011	Sep. 27, 2012

- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 9.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 460141.
5. The IC Site Registration No. is IC 7450F-4.

### 3 GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

<b>EUT</b>	CDMA FJI13
<b>MODEL NO.</b>	FJI13
<b>POWER SUPPLY</b>	5.0Vdc (adapter) 3.7Vdc (battery)
<b>MODULATION TYPE</b>	<b>CDMA:</b> QPSK <b>WCDMA :</b> BPSK
<b>FREQUENCY RANGE</b>	<b>CDMA:</b> 824.7MHz ~ 848.31MHz <b>WCDMA:</b> 826.4MHz ~ 846.6MHz
<b>MAX. ERP POWER</b>	<b>CDMA:</b> 0.21Watts <b>WCDMA:</b> 0.18Watts
<b>WCDMA RELEASE VERSION</b>	6
<b>ANTENNA TYPE</b>	Fixed Internal antenna with 2.14 dBi gain
<b>I/O PORTS</b>	Refer to users' manual
<b>DATA CABLE</b>	NA
<b>ACCESSORY DEVICES</b>	Refer to Note as below

#### NOTE:

- The EUT contains following accessory and components.

ITEM	BRAND	MODEL	SPECIFICATION
Battery	Panasonic	FJI13UAA	Rating: 3.7Vdc, 1800mAh Type: Li-ion
LCD Panel	TMD	LT046MDY0000	--
Camera 1	SONY	IU091F-Z	--
Camera 2	SAMSUNG	S5K6AAFX13	--
WLAN/BT Module	TI	WL1283	--
WiMAX Module	Broadcom	BCSM350	--

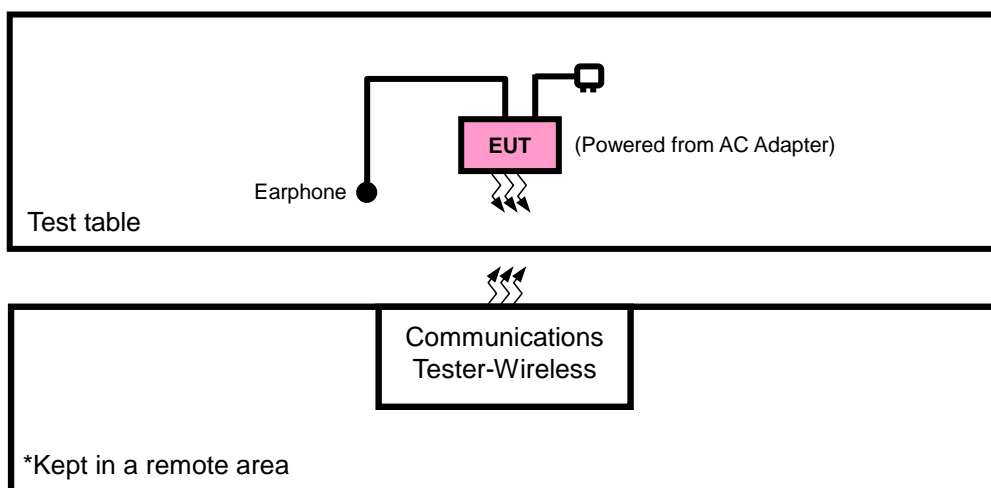
- The following accessory is for support unit only.

ITEM	BRAND	MODEL	SPECIFICATION
Adapter	HOSHIDEN	0204PTA	Input: 100-240Vac, 220mA Output: 5Vdc, 600mA

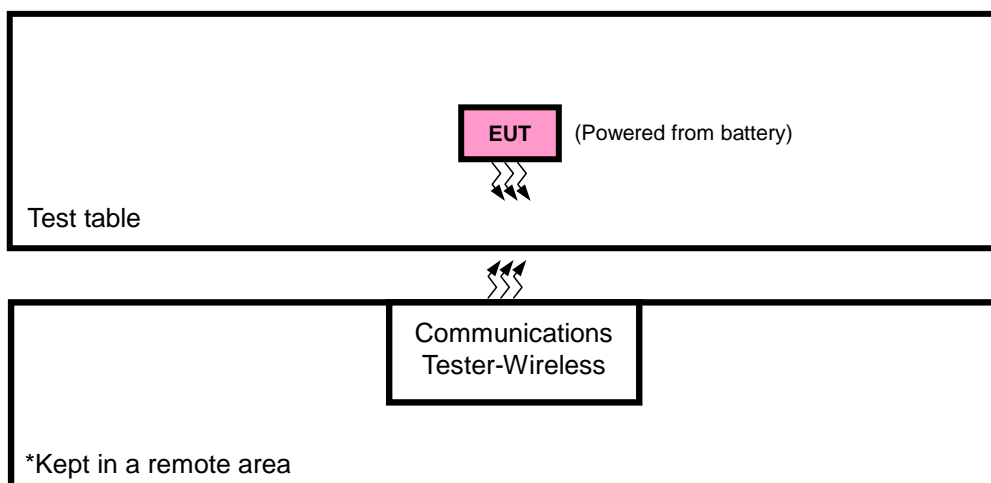
- The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

## 3.2 CONFIGURATION OF SYSTEM UNDER TEST

### FOR RADIATION EMISSION TEST



### FOR E.R.P. TEST



## 3.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units.



### 3.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned on Y-plane for ERP, and X-axis for CDMA and Z-axis for WCDMA for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

#### CDMA MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
-	ERP	1013 to 777	1013, 384, 777	RC3+SO32(+SCH)
-	FREQUENCY STABILITY	1013 to 777	384	RC3+SO32(+SCH)
-	OCCUPIED BANDWIDTH	1013 to 777	1013, 384, 777	RC3+SO32(+SCH)
-	BAND EDGE	1013 to 777	1013, 777	RC3+SO32(+SCH)
-	CONDCUDED EMISSION	1013 to 777	384	RC3+SO32(+SCH)
-	RADIATED EMISSION	1013 to 777	384	RC3+SO32(+SCH)

#### WCDMA MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
-	ERP	4132 to 4233	4132, 4182, 4233	WCDMA
-	FREQUENCY STABILITY	4132 to 4233	4182	WCDMA
-	OCCUPIED BANDWIDTH	4132 to 4233	4132, 4182, 4233	WCDMA
-	BAND EDGE	4132 to 4233	4132, 4233	WCDMA
-	CONDCUDED EMISSION	4132 to 4233	4182	WCDMA
-	RADIATED EMISSION	4132 to 4233	4182	WCDMA

#### TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	25deg. C, 65%RH	3.7Vdc	Phoenix Chen
FREQUENCY STABILITY	25deg. C, 65%RH	3.7Vdc	Phoenix Chen
OCCUPIED BANDWIDTH	25deg. C, 65%RH	3.7Vdc	Phoenix Chen
BAND EDGE	25deg. C, 65%RH	3.7Vdc	Phoenix Chen
CONDCUDED EMISSION	25deg. C, 65%RH	3.7Vdc	Phoenix Chen
RADIATED EMISSION	25deg. C, 65%RH	120Vac, 60Hz	Kay Wu



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### **3.5 EUT OPERATING CONDITIONS**

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

### **3.6 GENERAL DESCRIPTION OF APPLIED STANDARDS**

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**FCC 47 CFR Part 2**

**FCC 47 CFR Part 22**

**ANSI/TIA/EIA-603-C 2004**

**NOTE:** All test items have been performed and recorded as per the above standards.

## 4 TEST TYPES AND RESULTS

### 4.1 OUTPUT POWER MEASUREMENT

#### 4.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile / Portable station are limited to 7 watts e.r.p.

#### 4.1.2 TEST PROCEDURES

##### **EIRP / ERP MEASUREMENT:**

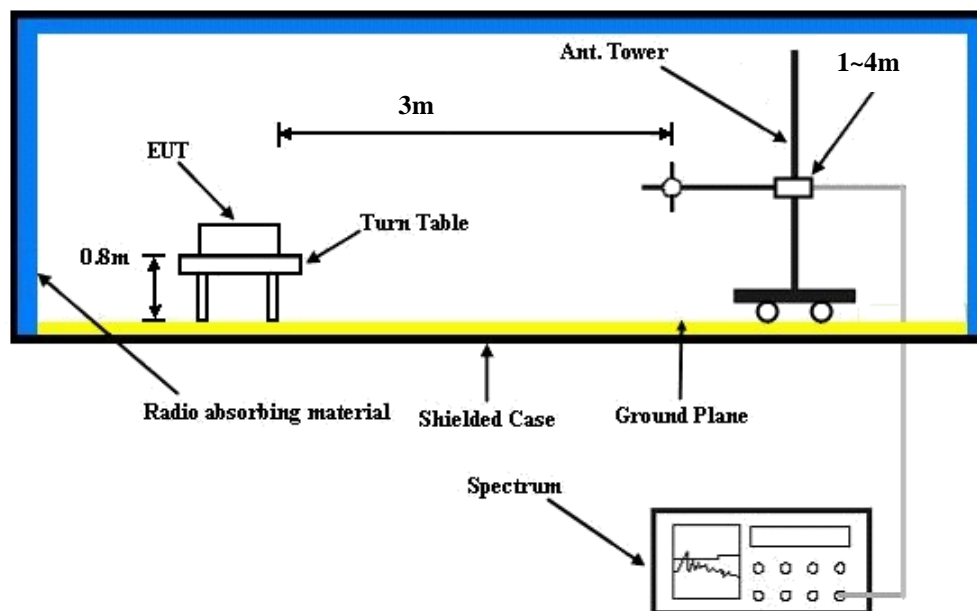
- a. All measurements were done at low, middle and high operational frequency range. RWB and VBW is 5MHz for CDMA and WCDMA mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G
- d.  $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$ . E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,  $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15\text{dBi}$ .

##### **CONDUCTED POWER MEASUREMENT:**

The EUT was set up for the maximum power with CDMA & WCDMA link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

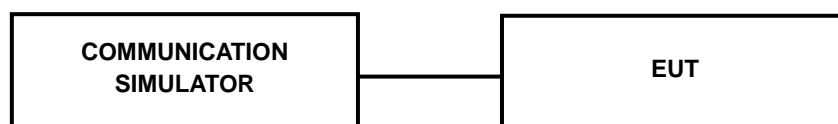
### 4.1.3 TEST SETUP

#### EIRP / ERP MEASUREMENT:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### CONDUCTED POWER MEASUREMENT:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.1.4 TEST RESULTS

##### CONDUCTED OUTPUT POWER (dBm)

Band	CDMA2000 BC0		
Channel	1013	384	777
Frequency (MHz)	824.7	836.52	848.31
RC1+SO55	24.79	24.91	24.62
RC3+SO55	24.79	24.92	24.55
RC3+SO32(+ F-SCH)	24.82	24.90	24.55
RC3+SO32(+SCH)	24.81	<b>24.93</b>	24.53

Band	WCDMA V		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	23.19	23.36	23.36
HSDPA Subtest-1	22.12	22.20	22.32
HSDPA Subtest-2	20.15	20.18	20.31
HSDPA Subtest-3	19.80	19.81	19.94
HSDPA Subtest-4	19.69	19.65	19.85
HSUPA Subtest-1	19.67	19.56	19.81
HSUPA Subtest-2	20.71	20.62	20.82
HSUPA Subtest-3	18.66	18.74	18.91
HSUPA Subtest-4	21.04	21.02	21.13
HSUPA Subtest-5	19.97	19.93	20.06

# ERP POWER (dBm)

## RC3+SO32(+ F-SCH)

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(W)	Polarization (H/V)
Y	1013	824.7	-16.49	32.62	13.98	0.03	H
	384	836.54	-16.45	32.52	13.92	0.02	H
	777	848.31	-17.21	32.65	13.29	0.02	H
	1013	824.7	-7.46	32.76	23.15	0.21	V
	384	836.54	-7.48	32.39	22.76	0.19	V
	777	848.31	-7.93	32.54	22.46	0.18	V

## WCDMA

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(W)	Polarization (H/V)
Y	4132	826.4	-7.85	32.62	22.62	0.18	H
	4182	836.4	-7.74	32.52	22.63	0.18	H
	4233	846.6	-8.12	32.65	22.38	0.17	H
	4132	826.4	-21.16	32.76	9.45	0.01	V
	4182	836.4	-22.11	32.39	8.13	0.01	V
	4233	846.6	-20.94	32.54	9.45	0.01	V

## 4.2 FREQUENCY STABILITY MEASUREMENT

### 4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

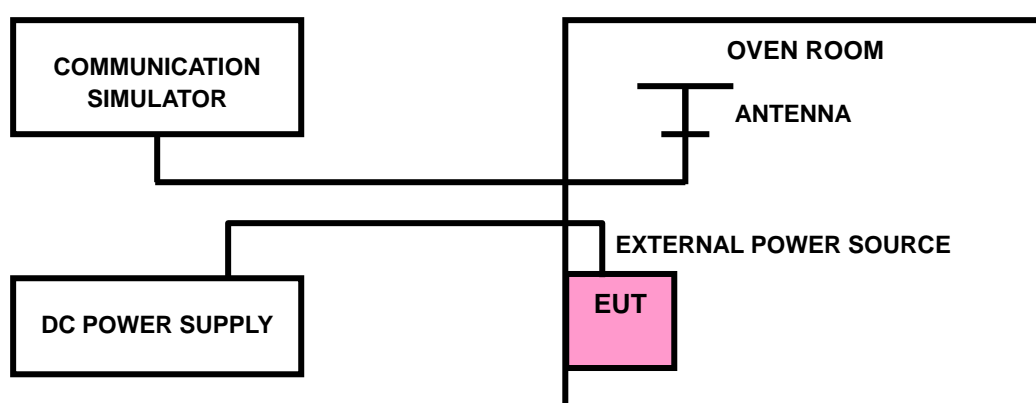
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

### 4.2.2 TEST PROCEDURE

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the  $\pm 0.5^{\circ}\text{C}$  during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

**NOTE:** The frequency error was recorded frequency error from the communication simulator.

### 4.2.3 TEST SETUP



## 4.2.4 TEST RESULTS

### FREQUENCY ERROR VS. VOLTAGE

VOLTAGE (Volts)	FREQUENCY ERROR (ppm)		LIMIT (ppm)
	RC3+SO32(+ F-SCH)	WCDMA	
3.9	0.003	0.005	2.5
3.7	0.003	0.005	2.5
4.2	0.004	0.005	2.5

**NOTE:** The applicant defined the normal working voltage of the battery is from 3.7Vdc to 4.2Vdc.

### FREQUENCY ERROR vs. TEMPERATURE.

TEMP. (°C)	FREQUENCY ERROR (ppm)		LIMIT (ppm)
	RC3+SO32(+ F-SCH)	WCDMA	
-10	0.003	0.005	2.5
0	0.003	0.005	2.5
10	0.004	0.005	2.5
20	0.003	0.005	2.5
30	0.004	0.004	2.5
40	0.003	0.005	2.5
50	0.003	0.004	2.5
55	0.004	0.005	2.5

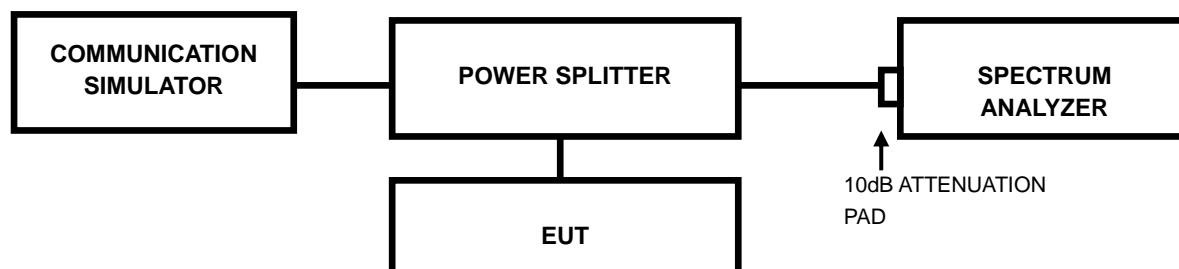


## 4.3 OCCUPIED BANDWIDTH MEASUREMENT

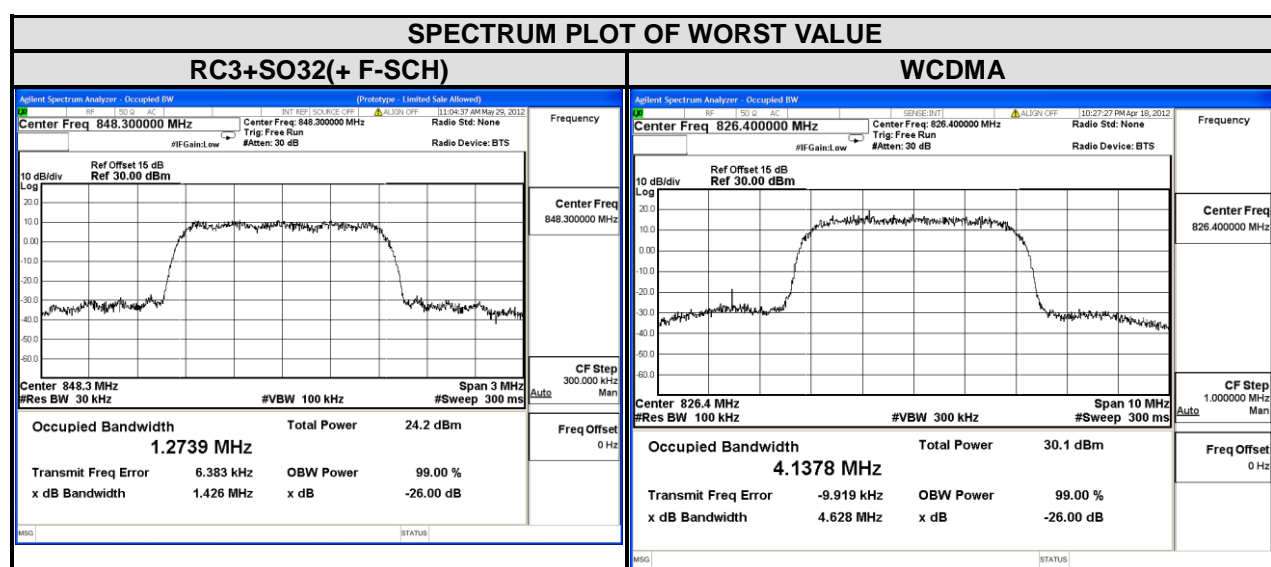
### 4.3.1 TEST PROCEDURES

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

### 4.3.2 TEST SETUP



CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)	CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)
		RC3+SO32(+ F-SCH)			WCDMA
1013	824.70	1.267	4132	826.4	4.14
384	836.52	1.273	4182	836.4	4.14
777	848.31	1.274	4233	846.6	4.14

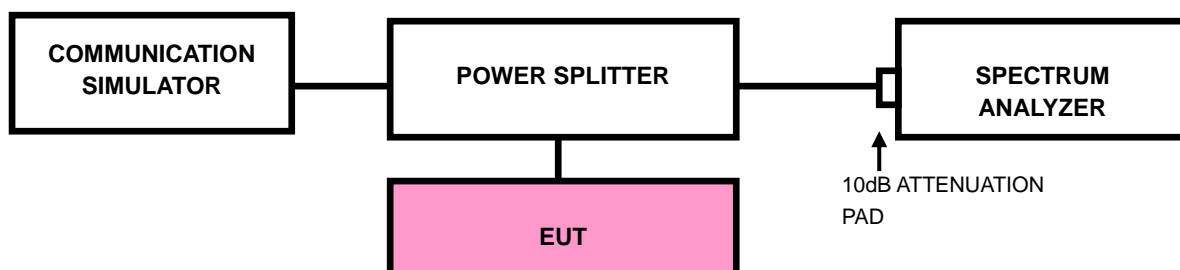


## 4.4 BAND EDGE MEASUREMENT

### 4.4.1 LIMITS OF BAND EDGE MEASUREMENT

Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

### 4.4.2 TEST SETUP



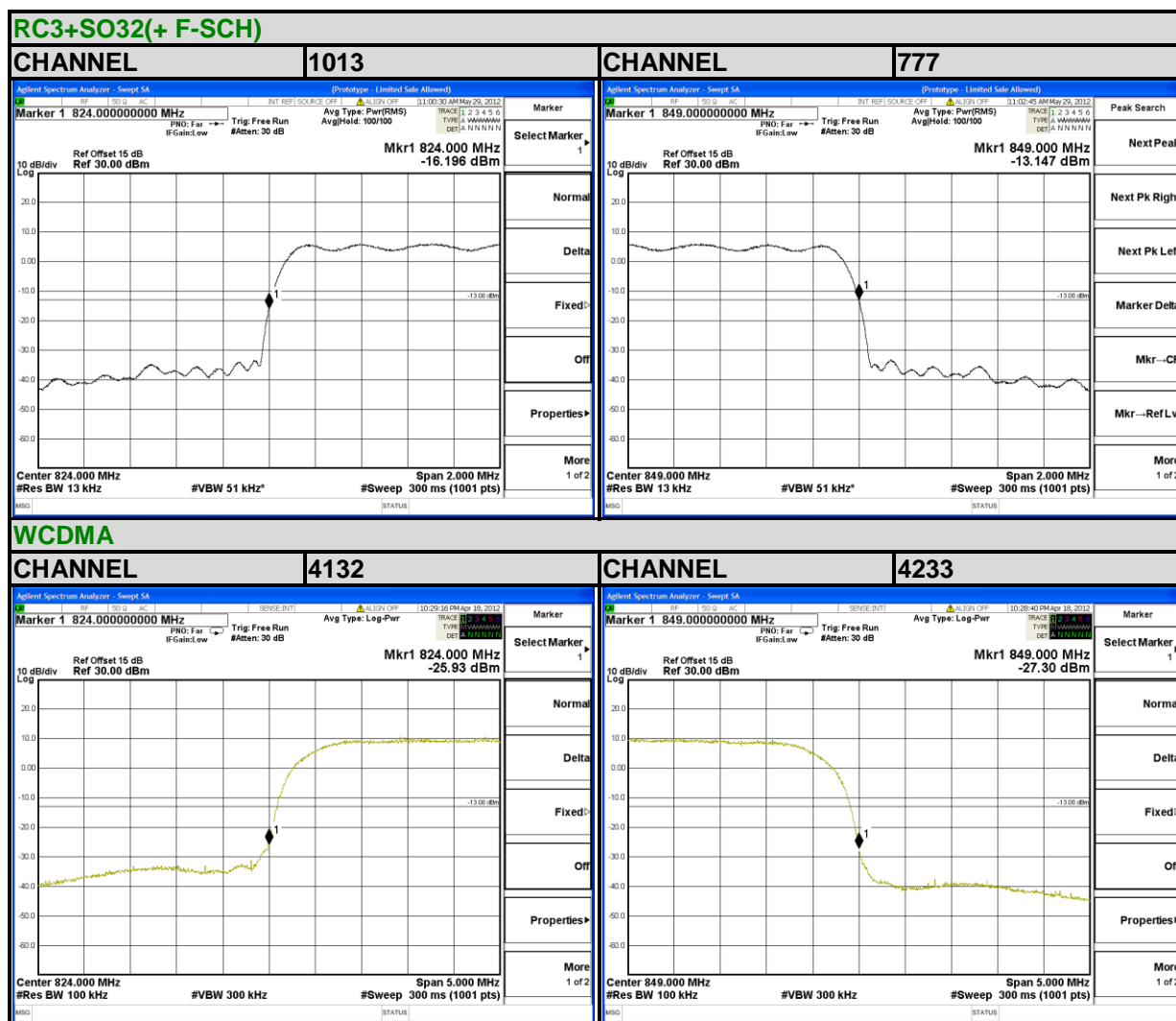
### 4.4.3 TEST PROCEDURES

- All measurements were done at low and high operational frequency range.
- The center frequency of spectrum is the band edge frequency and span is 2 MHz. RB of the spectrum is 13kHz and VB of the spectrum is 51kHz (CDMA).
- The center frequency of spectrum is the band edge frequency and span is 5MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (WCDMA).
- Record the max trace plot into the test report.



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## 4.4.4 TEST RESULTS



## 4.5 CONDUCTED SPURIOUS EMISSIONS

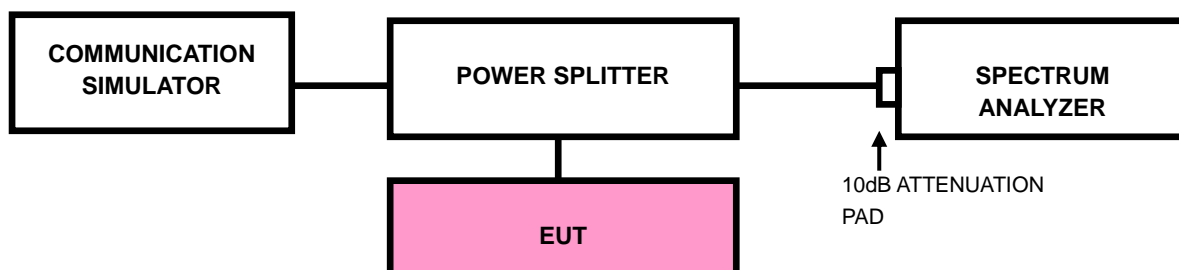
### 4.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. The emission limit equal to  $-13\text{dBm}$ .

### 4.5.2 TEST PROCEDURE

- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 30MHz to 9GHz. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

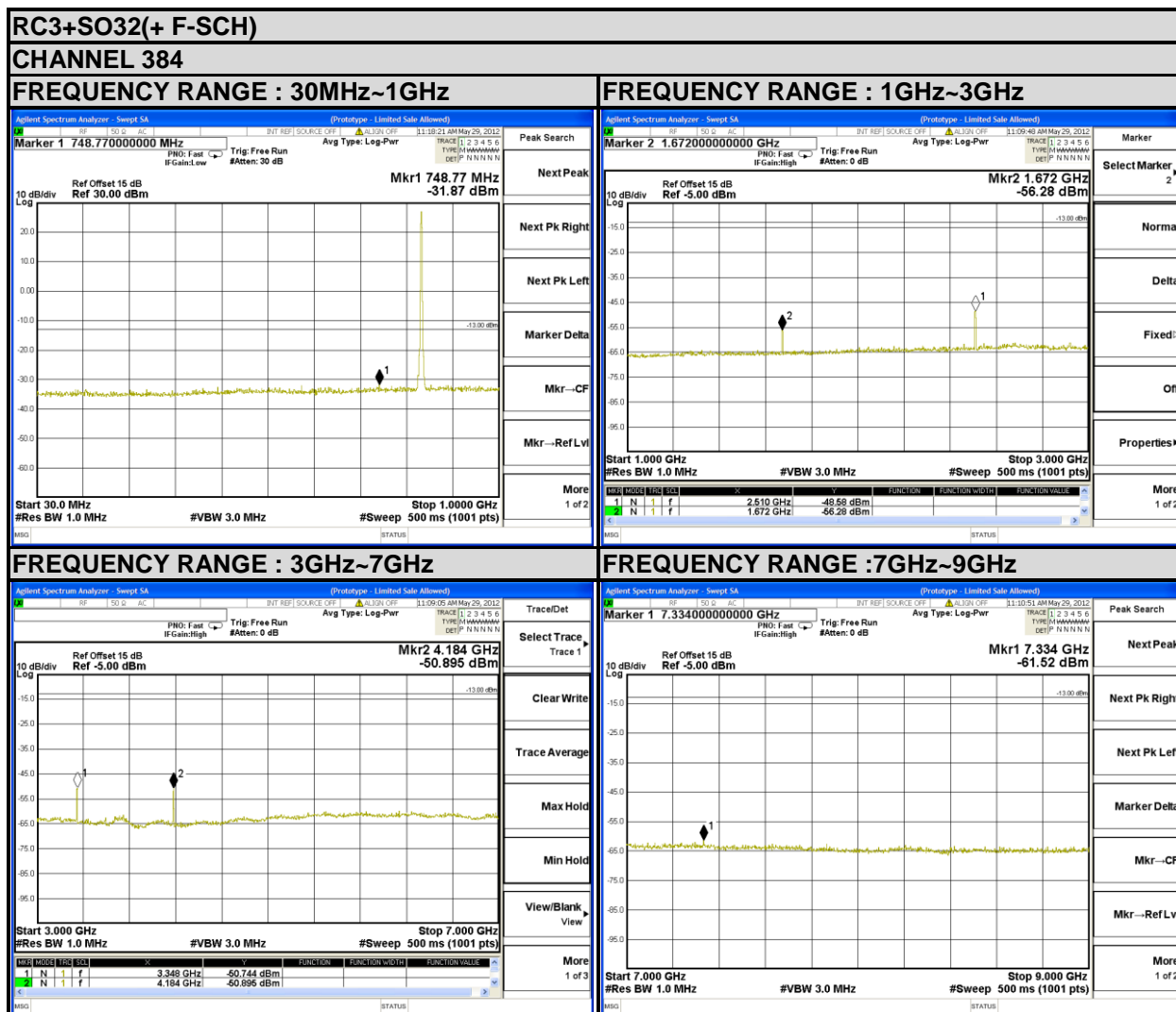
### 4.5.3 TEST SETUP





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## 4.5.4 TEST RESULTS



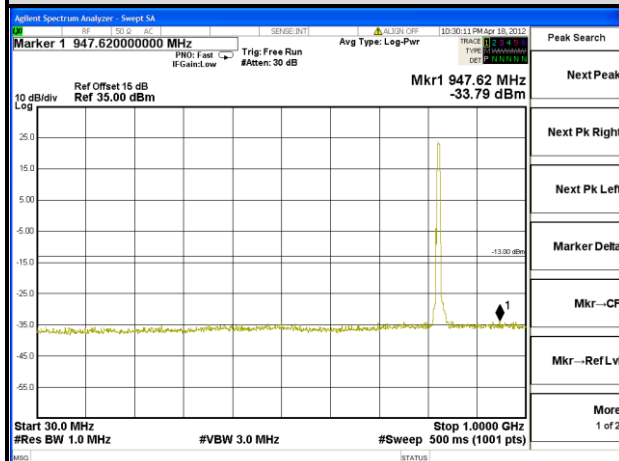


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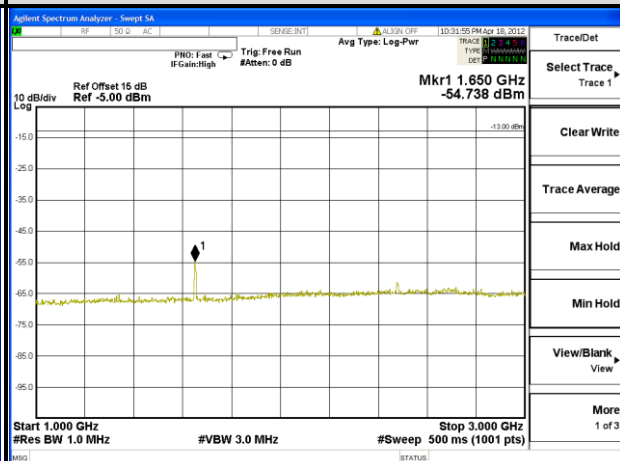
## WCDMA

## CHANNEL 4182

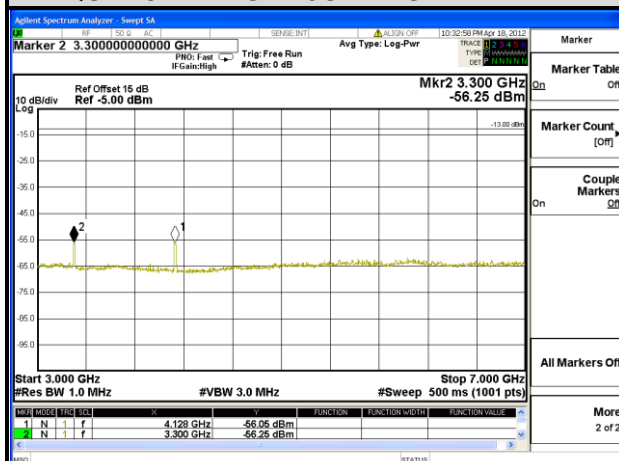
## FREQUENCY RANGE : 30MHz~1GHz



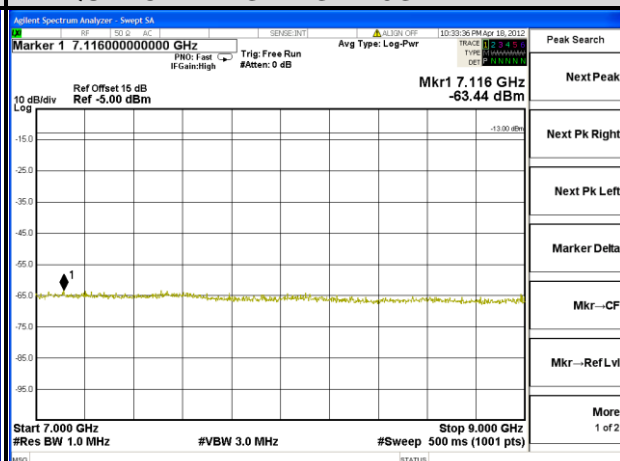
## FREQUENCY RANGE : 1GHz~3GHz



## FREQUENCY RANGE : 3GHz~7GHz



## FREQUENCY RANGE : 7GHz~9GHz



## 4.6 RADIATED EMISSION MEASUREMENT

### 4.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. The emission limit equal to  $-13\text{dBm}$ .

### 4.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step a. Record the power level of S.G
- c.  $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,  
 $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi}.$

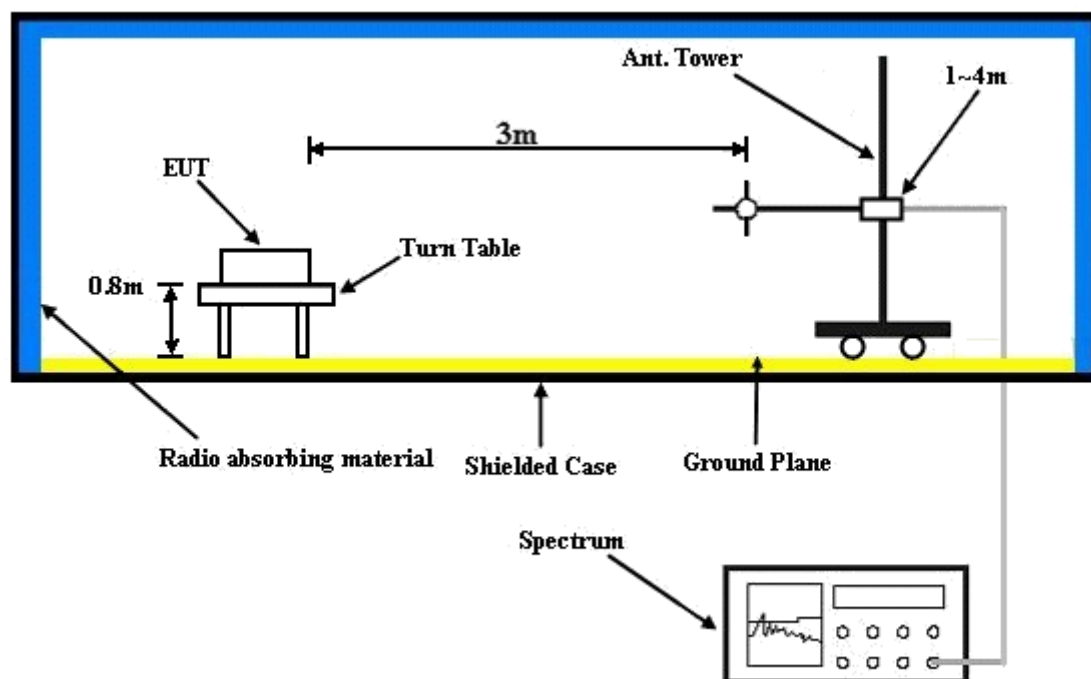
**NOTE:** The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

### 4.6.3 DEVIATION FROM TEST STANDARD

No deviation



#### 4.6.4 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).



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## 4.6.5 TEST RESULTS

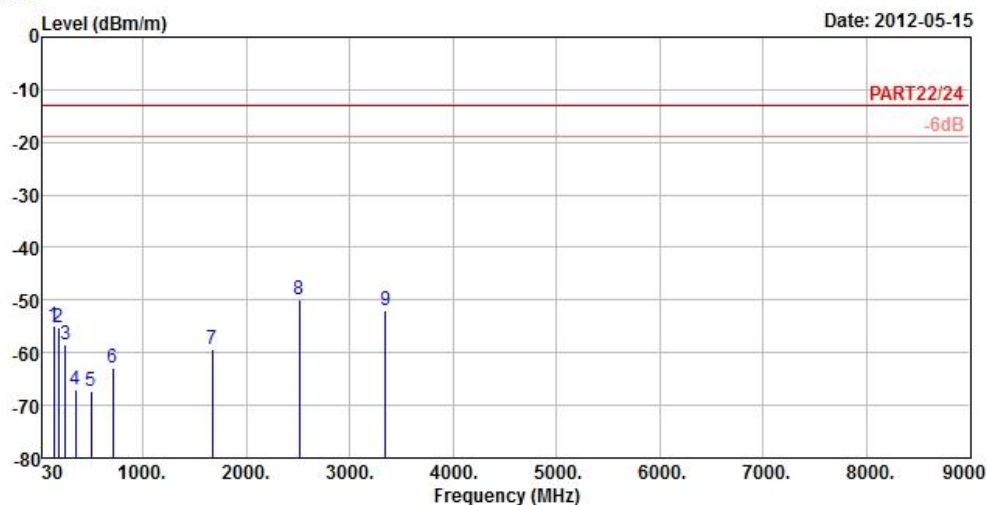
RC3+SO32(+ F-SCH)



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Data: 9



Site : 966 Chamber 5  
Condition : PART22/24 3m EIRP\_RSE\_1G~19G\_3 HORIZONTAL  
Brand/Model: FJI13  
Remark : 1XRTT850  
Tested by : Kay Wu  
Temperature : 25°C  
Humidity : 65%  
Plane : X  
Sample No : C120405-010-016-001

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	139.35	-55.05	-49.38	-13.00	-42.05	-5.67	Peak
2	182.01	-55.18	-49.28	-13.00	-42.18	-5.90	Peak
3	253.29	-58.58	-52.86	-13.00	-45.58	-5.72	Peak
4	349.70	-67.07	-61.06	-13.00	-54.07	-6.01	Peak
5	501.60	-67.26	-64.20	-13.00	-54.26	-3.06	Peak
6	705.30	-62.79	-64.27	-13.00	-49.79	1.48	Peak
7	1672.80	-59.29	-46.47	-13.00	-46.29	-12.82	Peak
8 pp	2509.20	-49.76	-40.59	-13.00	-36.76	-9.17	Peak
9	3345.60	-51.93	-44.12	-13.00	-38.93	-7.81	Peak



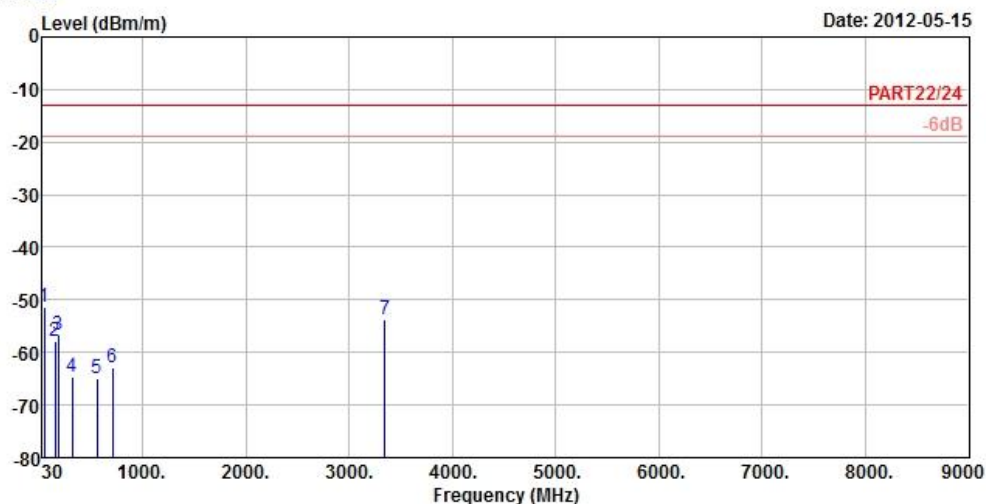
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Data: 10



Site : 966 Chamber 5  
Condition : PART22/24 3m EIRP\_RSE\_1G~19G\_3 VERTICAL  
Brand/Model: FJI13  
Remark : 1XRTT850  
Tested by : Kay Wu  
Temperature : 25°C  
Humidity : 65%  
Plane : X  
Sample No : C120405-010-016-001

		Read	Limit	Over			
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	44.04	-51.51	-50.25	-13.00	-38.51	-1.26	Peak
2	155.82	-57.84	-51.39	-13.00	-44.84	-6.45	Peak
3	180.66	-56.68	-51.01	-13.00	-43.68	-5.67	Peak
4	316.10	-64.69	-58.43	-13.00	-51.69	-6.26	Peak
5	556.20	-65.08	-63.51	-13.00	-52.08	-1.57	Peak
6	705.30	-62.96	-64.44	-13.00	-49.96	1.48	Peak
7	3345.60	-53.68	-45.87	-13.00	-40.68	-7.81	Peak

# WCDMA

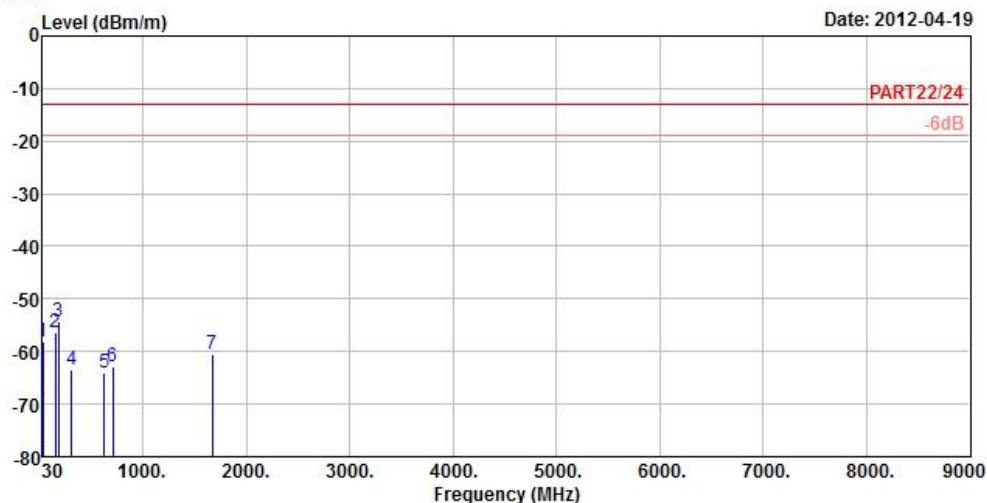


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 9

Date: 2012-04-19



Site : 966 Chamber 5  
Condition : PART22/24 3m EIRP\_RSE\_1G~19G\_3 HORIZONTAL  
Brand/Model: FJI13  
Remark : Band V Link  
Tested by : Kay Wu  
Temperature : 25°C  
Humidity : 65%  
Plane : Z  
Sample No : C120405-010-016-001

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	30.27	-58.23	-59.30	-13.00	-45.23	1.07	Peak
2	155.82	-56.38	-49.93	-13.00	-43.38	-6.45	Peak
3 pp	182.01	-54.18	-48.28	-13.00	-41.18	-5.90	Peak
4	312.60	-63.44	-57.15	-13.00	-50.44	-6.29	Peak
5	622.70	-63.92	-63.97	-13.00	-50.92	0.05	Peak
6	705.30	-62.79	-64.27	-13.00	-49.79	1.48	Peak
7	1672.80	-60.48	-47.66	-13.00	-47.48	-12.82	Peak



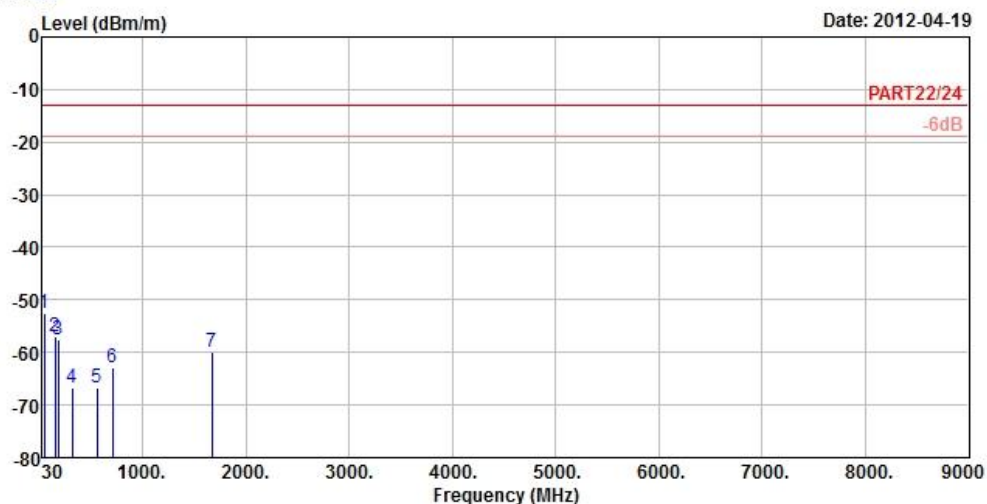
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 10



Site : 966 Chamber 5  
Condition : PART22/24 3m EIRP\_RSE\_1G~19G\_3 VERTICAL  
Brand/Model: FJI13  
Remark : Band V Link  
Tested by : Kay Wu  
Temperature : 25°C  
Humidity : 65%  
Plane : Z  
Sample No : C120405-010-016-001

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	44.04	-52.51	-51.25	-13.00	-39.51	-1.26	Peak
2	155.82	-56.84	-50.39	-13.00	-43.84	-6.45	Peak
3	180.66	-57.68	-52.01	-13.00	-44.68	-5.67	Peak
4	316.10	-66.69	-60.43	-13.00	-53.69	-6.26	Peak
5	561.10	-66.74	-65.33	-13.00	-53.74	-1.41	Peak
6	705.30	-62.96	-64.44	-13.00	-49.96	1.48	Peak
7	1672.80	-59.96	-47.14	-13.00	-46.96	-12.82	Peak



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## 5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



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## 6 INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Fax: 886-2-26051924

**Hsin Chu EMC/RF Lab:**

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Fax: 886-3-3270892

**Email:** [service.adt@tw.bureauveritas.com](mailto:service.adt@tw.bureauveritas.com)

**Web Site:** [www.adt.com.tw](http://www.adt.com.tw)

The address and road map of all our labs can be found in our web site also.



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## **7 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB**

No any modifications are made to the EUT by the lab during the test.

---END---