

# FCC TEST REPORT

## (PART 22)

**REPORT NO.:** RF141203C10

**MODEL NO.:** 0PJA120

**FCC ID:** NM80PJA120

**RECEIVED:** Dec. 03, 2014

**TESTED:** Dec. 12, 2014 ~ Jan. 14, 2015

**ISSUED:** Jan. 29, 2015

**APPLICANT:** HTC Corporation

**ADDRESS:** 1F, 6-3 Baoqiang Road, Xindian District, New Taipei City, Taiwan 231

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

**LAB ADDRESS:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New 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
RF141203C10	Original release	Jan. 29, 2015

## 1 CERTIFICATION

**PRODUCT:** Smartphone

**MODEL:** 0PJA120

**BRAND:** HTC

**APPLICANT:** HTC Corporation

**TESTED:** Dec. 12, 2014 ~ Jan. 14, 2015

**TEST SAMPLE:** Production Unit

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

The above equipment (model: 0PJA120) 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** : Jan. 29, 2015  
Ivonne Wu / Supervisor

**APPROVED BY** : Sam Chen , **DATE** : Jan. 29, 2015  
Sam Chen / Senior Project Engineer

## 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 -28.05dB at 190.65MHz.

### 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	9kHz~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.

## 2.2 TEST SITE AND INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCI	100744	Apr. 15, 2014	Apr. 14, 2015
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 10, 2014	Dec. 09, 2015
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Feb. 27, 2014	Feb. 26, 2015
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Feb. 19, 2014	Feb. 18, 2015
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Aug. 27, 2014	Aug. 26, 2015
Preamplifier EMCI	EMC 012645	980115	Dec. 12, 2014	Dec. 11, 2015
Preamplifier EMCI	EMC184045B	980235	Nov. 13, 2014	Nov. 12, 2015
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4 2950114	Oct. 18, 2014	Oct. 17, 2015
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Oct. 18, 2014	Oct. 17, 2015
RF signal cable Worken	RG-213	NA	Nov. 07, 2014	Nov. 06, 2015
Software BV ADT	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
Power Splitter Woken	2-18GHz 2Way SMA Fwd.:30W/Rev.:2W Isolated Power	COM412W5E3	Apr. 17, 2014	Apr. 16, 2015
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA
Communications Tester-Wireless	E5515C	MY52102544	Sep. 11, 2014	Sep. 10, 2016
Radio Communication Analyzer	MT8820C	6201300640	Aug. 01, 2013	Jul. 31, 2015

- NOTE:** 1. The calibration interval of the above test instruments is 12 / 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 10.
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 690701.
5. The IC Site Registration No. is IC 7450F-10.

### 3 GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

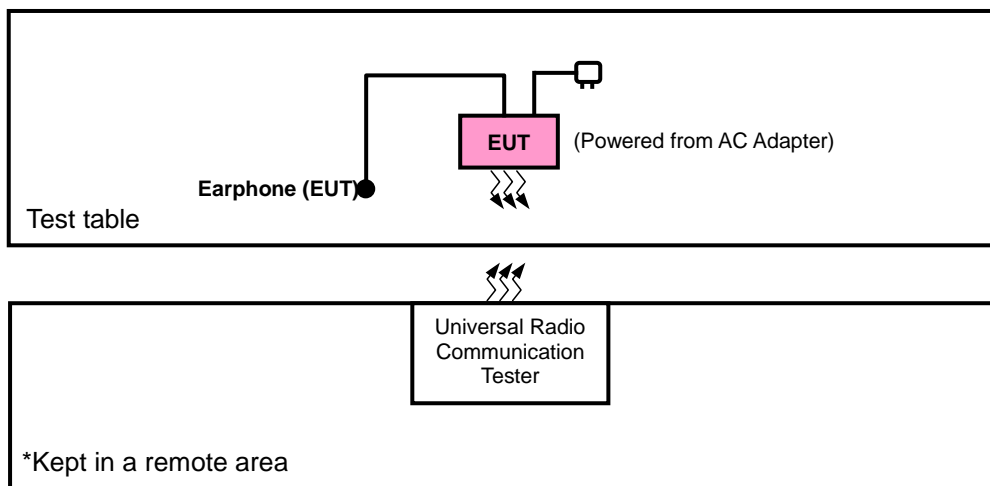
<b>EUT</b>	Smartphone	
<b>MODEL NO.</b>	0PJA120	
<b>POWER SUPPLY</b>	5.0Vdc (adapter or host equipment) 3.83Vdc (battery)	
<b>MODULATION TYPE</b>	<b>GSM/GPRS</b>	GMSK
	<b>EDGE</b>	GMSK, 8PSK
	<b>WCDMA</b>	BPSK
<b>FREQUENCY RANGE</b>	<b>GSM/GPRS/EDGE</b>	824.2MHz ~ 848.8MHz
	<b>WCDMA</b>	826.4MHz ~ 846.6MHz
<b>MAX. ERP POWER</b>	<b>GSM</b>	566.24mW
	<b>EDGE</b>	147.64mW
	<b>WCDMA</b>	98.22mW
<b>EMISSION DESIGNATOR</b>	<b>GSM</b>	245KGXW
	<b>EDGE</b>	245KG7W
	<b>WCDMA</b>	4M18F9W
<b>ANTENNA TYPE</b>	Fixed Internal Antenna	
<b>I/O PORTS</b>	Refer to users' manual	
<b>DATA CABLE</b>	Refer to NOTE as below	
<b>ACCESSORY DEVICES</b>	Refer to NOTE as below	

**NOTE:**

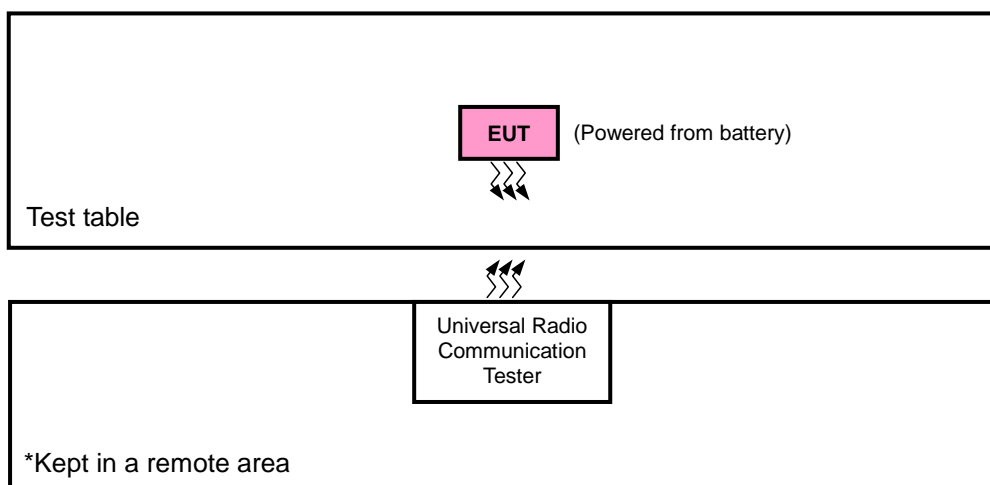
1. The EUT's accessories list refers to Ext. Pho.
2. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

### 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 X-plane for ERP, and X-axis for radiated emission for antenna 0. Following channel(s) was (were) selected for the final test as listed below:

#### GSM MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
-	ERP	128 to 251	128, 189, 251	GSM, EDGE
-	FREQUENCY STABILITY	128 to 251	189	GSM, EDGE
-	OCCUPIED BANDWIDTH	128 to 251	128, 189, 251	GSM, EDGE
-	BAND EDGE	128 to 251	128, 251	GSM, EDGE
-	CONDUCTED EMISSION	128 to 251	189	GSM, EDGE
-	RADIATED EMISSION	128 to 251	189	GSM, EDGE

#### 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
-	CONDUCTED EMISSION	4132 to 4233	4182	WCDMA
-	RADIATED EMISSION	4132 to 4233	4182	WCDMA

#### **TEST CONDITION:**

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	26deg. C, 58%RH	3.82Vdc	Charles Hsiao
FREQUENCY STABILITY	26deg. C, 58%RH	3.82Vdc	Luke Chen
OCCUPIED BANDWIDTH	26deg. C, 58%RH	3.82Vdc	Luke Chen
BAND EDGE	26deg. C, 58%RH	3.82Vdc	Luke Chen
CONDUCTED EMISSION	26deg. C, 58%RH	3.82Vdc	Luke Chen
RADIATED EMISSION	25deg. C, 65%RH	120Vac, 60Hz	Charles Hsiao

### **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:

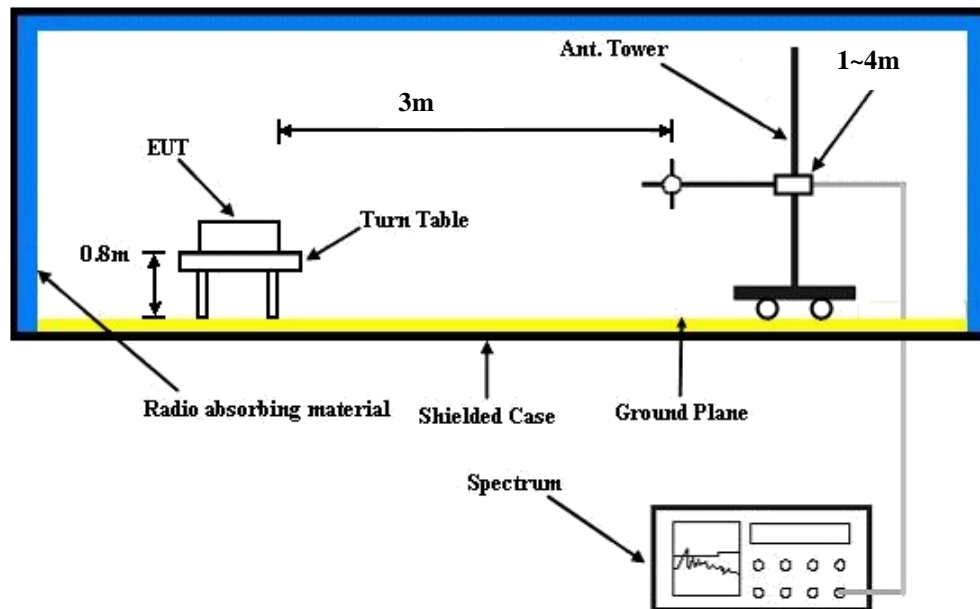
- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1MHz for GSM, GPRS & EDGE, and 5MHz for WCDMA mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table 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,  $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15\text{dBi}$ .

##### CONDUCTED POWER MEASUREMENT:

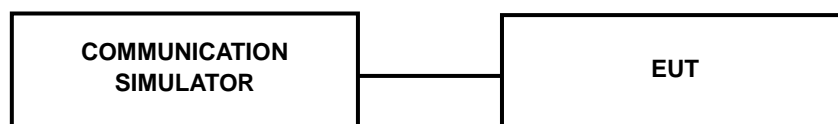
The EUT was set up for the maximum power with GSM, GPRS, EDGE, and WCDMA link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

#### 4.1.3 TEST SETUP

##### EIRP / ERP MEASUREMENT:



##### CONDUCTED POWER MEASUREMENT:



#### 4.1.4 TEST RESULTS

##### CONDUCTED OUTPUT POWER (dBm)

Band	GSM850		
Channel	128	189	251
Frequency (MHz)	824.2	836.4	848.8
GSM (GMSK, 1Tx-slot)	31.82	31.78	31.80
GPRS (GMSK, 1Tx-slot)	31.79	31.75	31.77
GPRS (GMSK, 2Tx-slot)	31.04	31.00	31.02
GPRS (GMSK, 3Tx-slot)	29.99	29.95	29.97
GPRS (GMSK, 4Tx-slot)	28.89	28.85	28.87
EDGE (8PSK, 1Tx-slot)	25.76	25.72	25.74
EDGE (8PSK, 2Tx-slot)	25.70	25.66	25.68
EDGE (8PSK, 3Tx-slot)	25.65	25.61	25.63
EDGE (8PSK, 4Tx-slot)	23.64	23.60	23.62

Band	WCDMA V		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	24.01	24.05	24.03
HSDPA Subtest-1	23.27	23.31	23.29
HSDPA Subtest-2	23.26	23.30	23.28
HSDPA Subtest-3	22.77	22.81	22.79
HSDPA Subtest-4	22.73	22.77	22.75
HSUPA Subtest-1	22.66	22.70	22.68
HSUPA Subtest-2	21.49	21.53	21.51
HSUPA Subtest-3	21.76	21.80	21.78
HSUPA Subtest-4	21.51	21.55	21.53
HSUPA Subtest-5	23.26	23.30	23.28

# ERP POWER (dBm)

GSM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
X	128	824.2	-1.69	31.208	27.37	545.51	H
	189	836.4	-1.62	31.3	27.53	566.24	H
	251	848.8	-2.06	31.222	27.01	502.57	H
	128	824.2	-7.07	31.504	22.28	169.20	V
	189	836.4	-6.28	31.117	22.69	185.65	V
	251	848.8	-7.29	31.922	22.48	177.09	V

EDGE							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
X	128	824.2	-7.95	31.208	21.11	129.06	H
	189	836.4	-7.75	31.3	21.40	138.04	H
	251	848.8	-7.38	31.222	21.69	147.64	H
	128	824.2	-13.24	31.504	16.11	40.87	V
	189	836.4	-12.48	31.117	16.49	44.53	V
	251	848.8	-13.55	31.922	16.22	41.90	V

WCDMA							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
X	4132	826.4	-9.99	31.208	19.07	80.69	H
	4182	836.4	-9.29	31.3	19.86	96.83	H
	4233	846.6	-9.15	31.222	19.92	98.22	H
	4132	826.4	-15.19	31.504	14.16	26.09	V
	4182	836.4	-14.74	31.117	14.23	26.47	V
	4233	846.6	-15.53	31.922	14.24	26.56	V

## 4.2 FREQUENCY STABILITY MEASUREMENT

### 4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

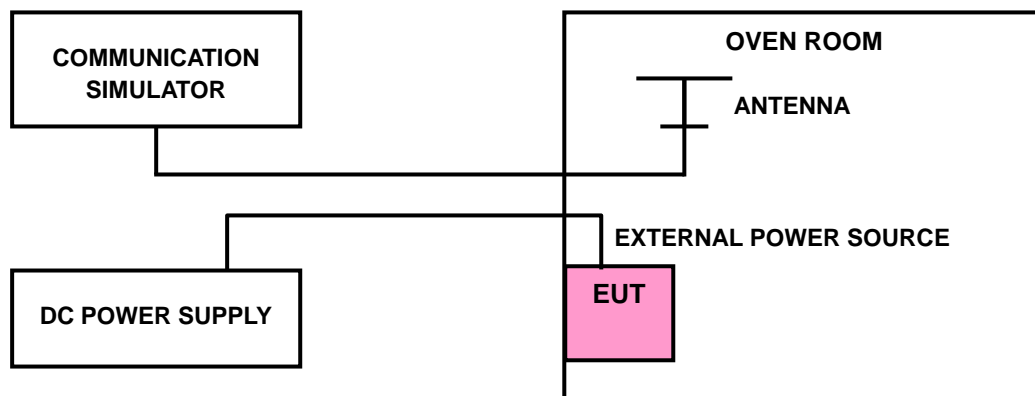
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

### 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)
	GSM	EDGE	WCDMA	
3.82	-0.004	-0.002	-0.002	2.5
3.6	0.003	0.003	0.004	2.5
4.40	0.006	0.002	0.005	2.5

**NOTE:** The applicant defined the normal working voltage of the battery is from 3.6Vdc to 4.40Vdc.

##### FREQUENCY ERROR vs. TEMPERATURE

TEMP. (°C)	FREQUENCY ERROR (ppm)			LIMIT (ppm)
	GSM	EDGE	WCDMA	
-30	0.004	0.002	0.003	2.5
-20	0.002	0.003	0.001	2.5
-10	0.003	0.004	0.005	2.5
0	-0.002	-0.002	0.004	2.5
10	-0.005	-0.005	-0.003	2.5
20	0.004	0.003	-0.006	2.5
30	0.006	0.007	0.006	2.5
40	-0.001	0.001	0.002	2.5
50	-0.003	-0.003	0.003	2.5
60	-0.006	-0.006	0.005	2.5

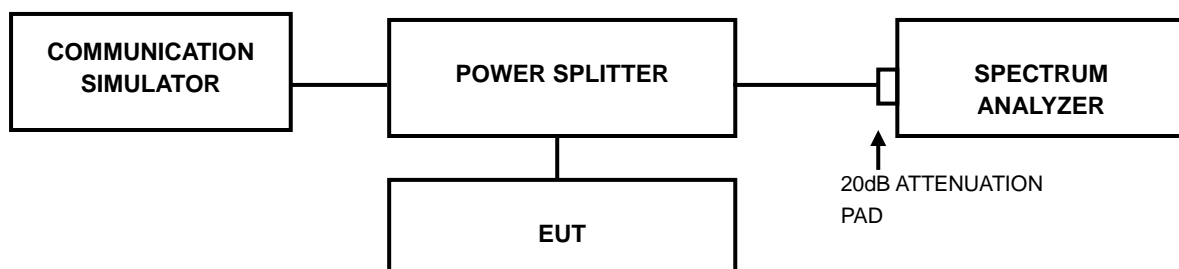


## 4.3 OCCUPIED BANDWIDTH MEASUREMENT

### 4.3.1 TEST PROCEDURES

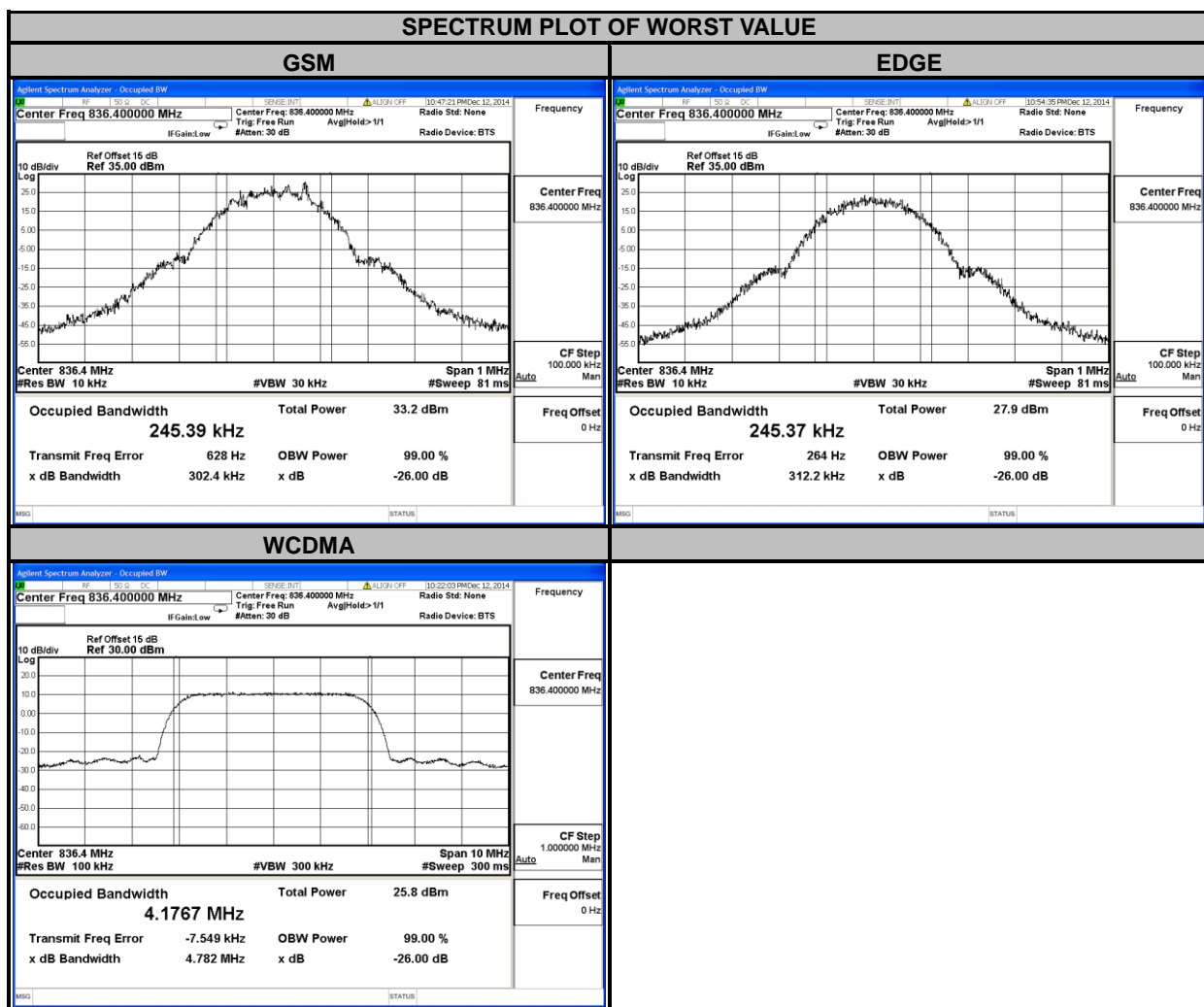
The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function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

### 4.3.2 TEST SETUP



### 4.3.3 TEST RESULTS

CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (kHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)
		GSM	EDGE			
128	824.2	243.97	243.38	4132	826.4	4.1635
189	836.4	245.39	245.37	4182	836.4	4.1767
251	848.8	244.31	244.69	4233	846.6	4.1574
CHANNEL	FREQUENCY (MHz)	26dB BANDWIDTH (kHz)		CHANNEL	FREQUENCY (MHz)	26dB BANDWIDTH (MHz)
		GSM	EDGE			
128	824.2	305.80	320.80	4132	826.4	4.753
189	836.4	302.40	312.20	4182	836.4	4.782
251	848.8	306.00	308.60	4233	846.6	4.756

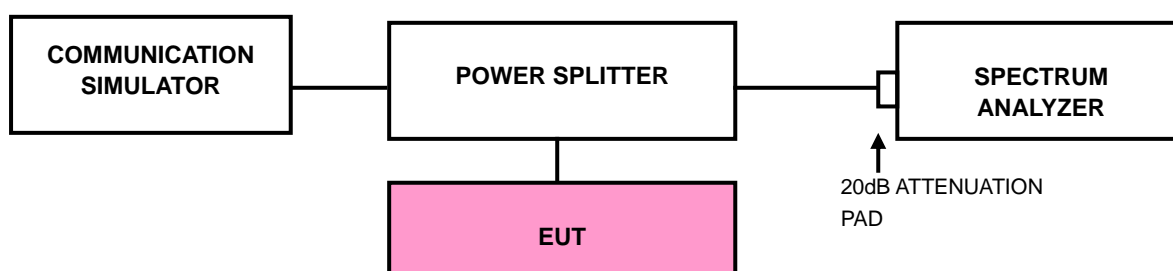


## 4.4 BAND EDGE MEASUREMENT

### 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.

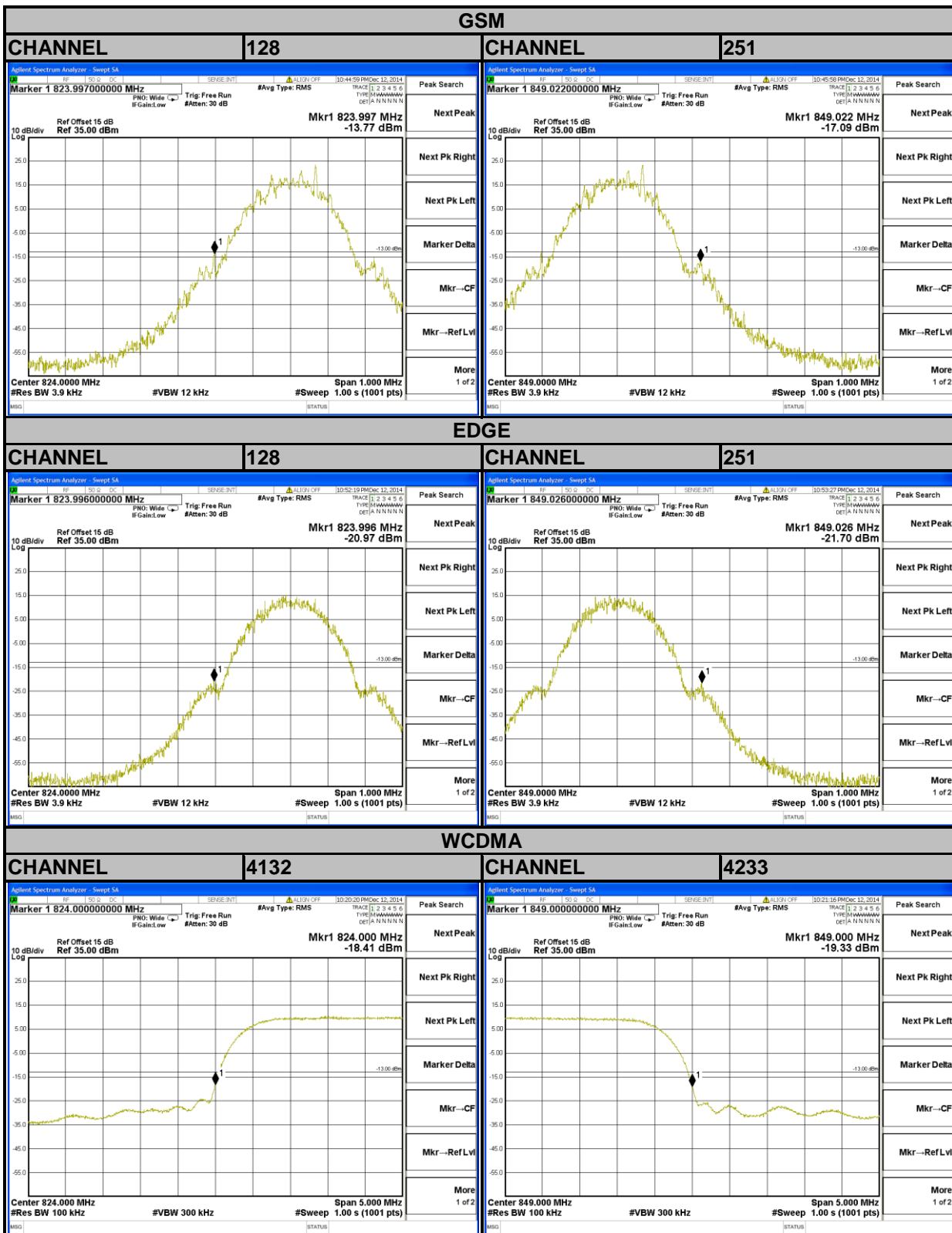
### 4.4.2 TEST SETUP



### 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 1MHz. RB of the spectrum is 3.9kHz and VB of the spectrum is 12kHz (GSM/GPRS/EDGE).
- 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.

#### 4.4.4 TEST RESULTS



## 4.5 CONDUCTED SPURIOUS EMISSIONS

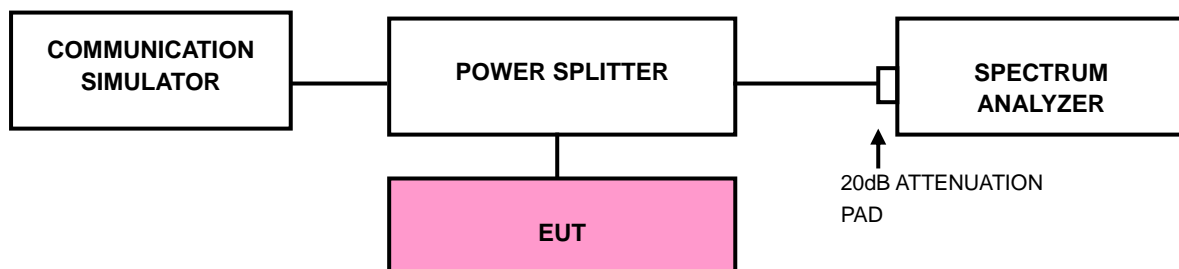
### 4.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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 is equal to -13dBm.

### 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 30 MHz to 9GHz. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

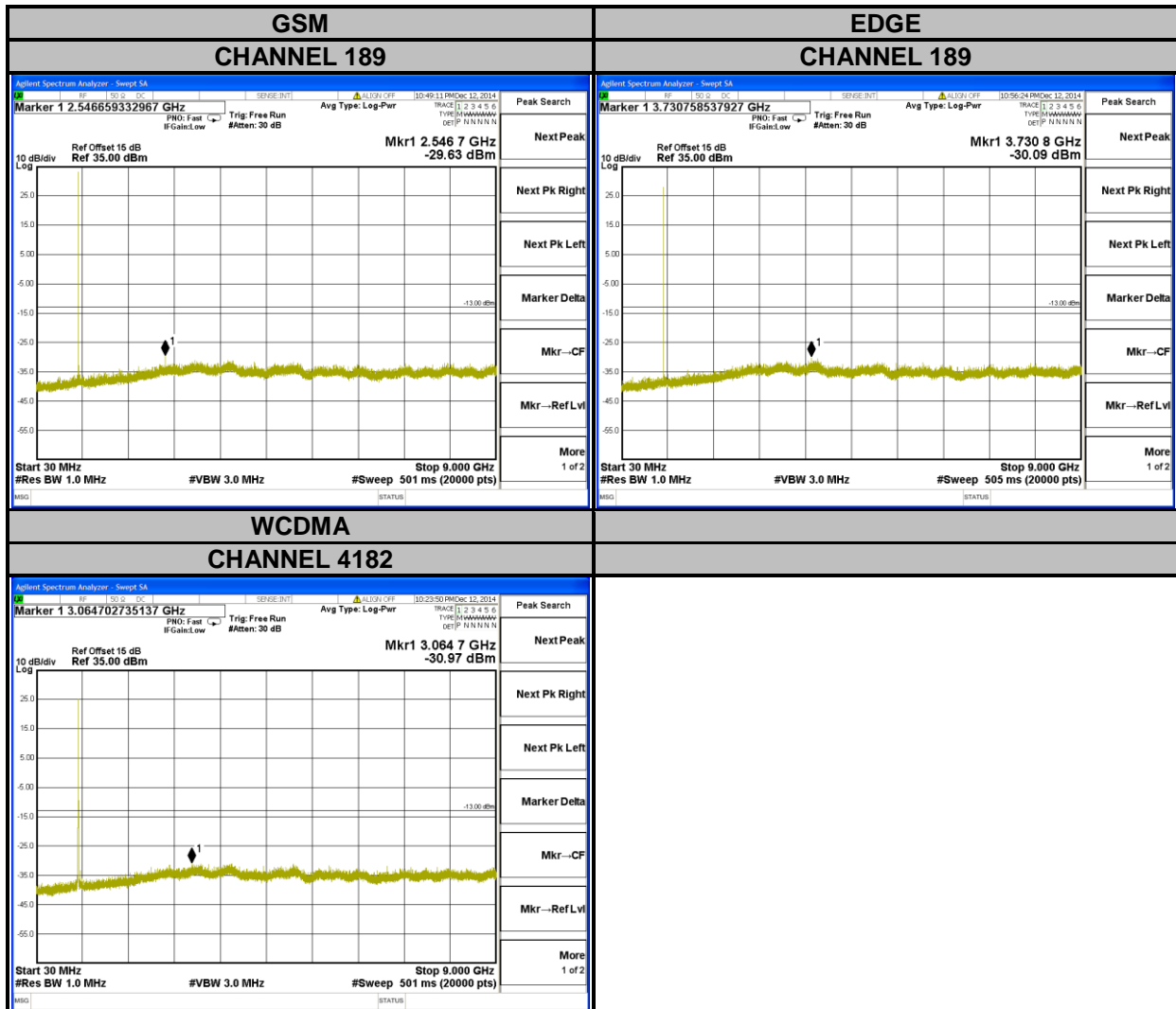
### 4.5.3 TEST SETUP





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#### 4.5.4 TEST RESULTS



## 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 is equal to -13dBm.

### 4.6.2 TEST PROCEDURES

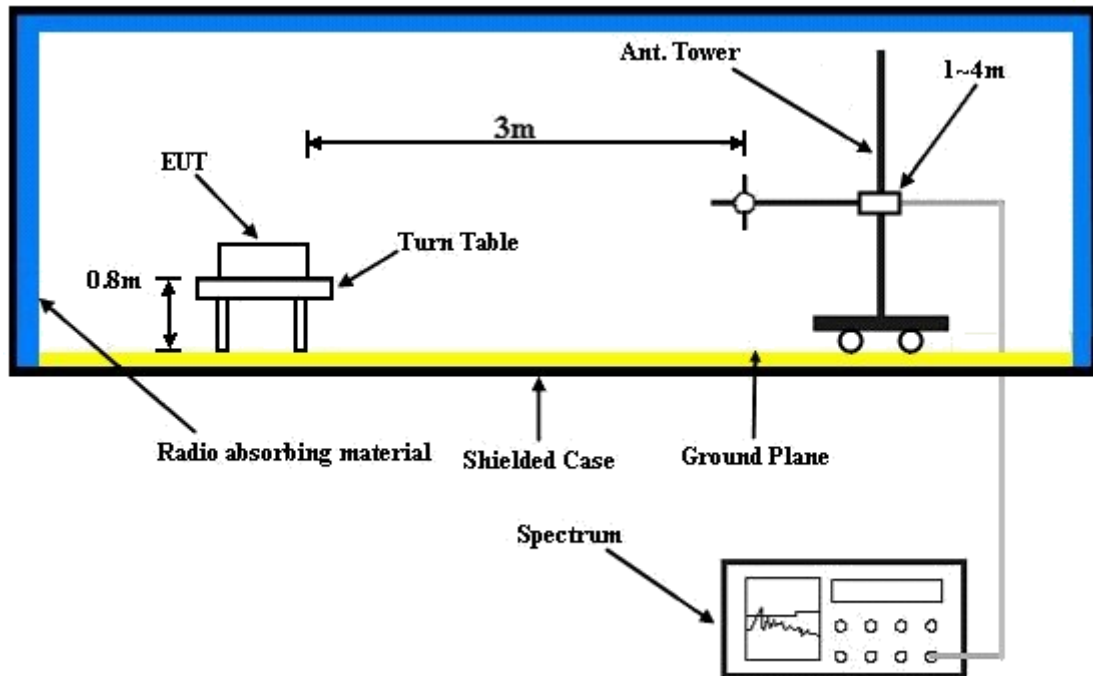
- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- 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
- $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$
- E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,  $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15\text{dBi}.$

**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).



## 4.6.5 TEST RESULTS

GSM:

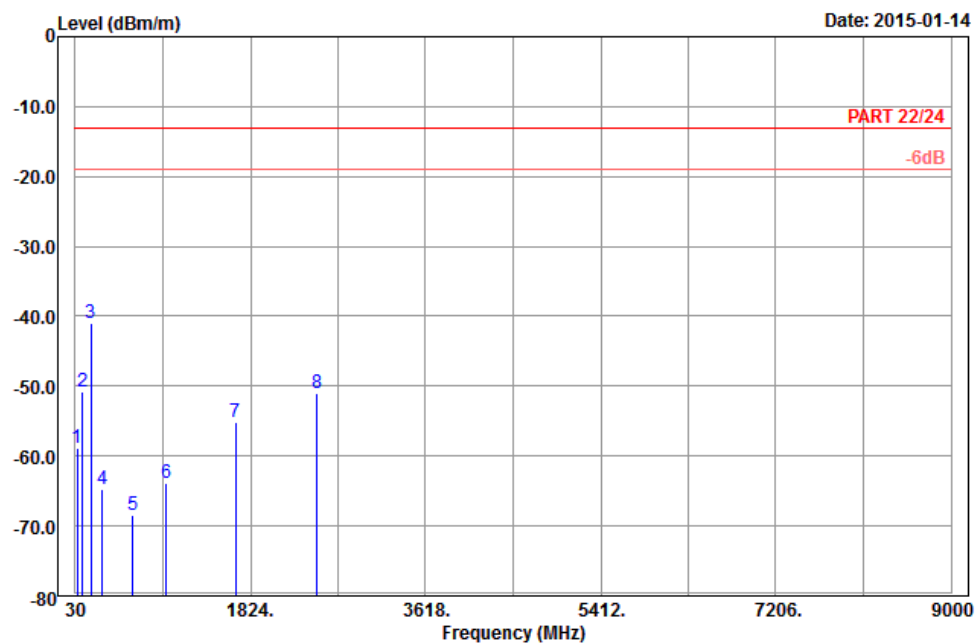


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Data: 9

Date: 2015-01-14



Site : 966 chamber 1  
Condition: PART 22/24 3m Horizontal  
Remark : GSM 850\_Link\_CH189  
Tested by: Charles Hsiao  
Plane : X

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	53.22	-58.81	-44.75	-13.00	-45.81	-14.06	Peak
2	102.63	-50.89	-41.12	-13.00	-37.89	-9.77	Peak
3	190.65	-41.05	-35.27	-13.00	-28.05	-5.78	Peak
4	309.10	-64.84	-58.99	-13.00	-51.84	-5.85	Peak
5	622.70	-68.42	-68.59	-13.00	-55.42	0.17	Peak
6	960.10	-63.85	-68.99	-13.00	-50.85	5.14	Peak
7	1672.80	-55.24	-63.15	-13.00	-42.24	7.91	Peak
8	2509.20	-51.05	-62.33	-13.00	-38.05	11.28	Peak

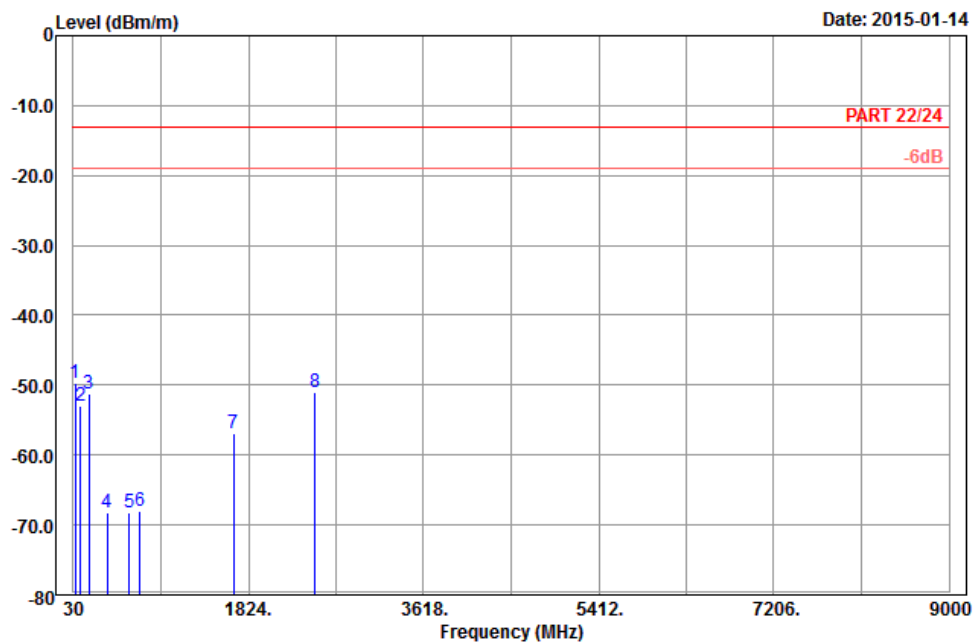


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Data: 10

Date: 2015-01-14



Site : 966 chamber 1  
Condition: PART 22/24 3m Vertical  
Remark : GSM 850\_Link\_CH189  
Tested by: Charles Hsiao  
Plane : X

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	46.74	-49.68	-36.88	-13.00	-36.68	-12.80 Peak
2	102.63	-52.99	-43.22	-13.00	-39.99	-9.77 Peak
3	192.81	-51.29	-45.42	-13.00	-38.29	-5.87 Peak
4	379.80	-68.13	-64.36	-13.00	-55.13	-3.77 Peak
5	600.30	-68.27	-68.70	-13.00	-55.27	0.43 Peak
6	710.90	-67.99	-67.41	-13.00	-54.99	-0.58 Peak
7	1672.80	-56.85	-64.76	-13.00	-43.85	7.91 Peak
8	2509.20	-50.91	-62.19	-13.00	-37.91	11.28 Peak

EDGE:

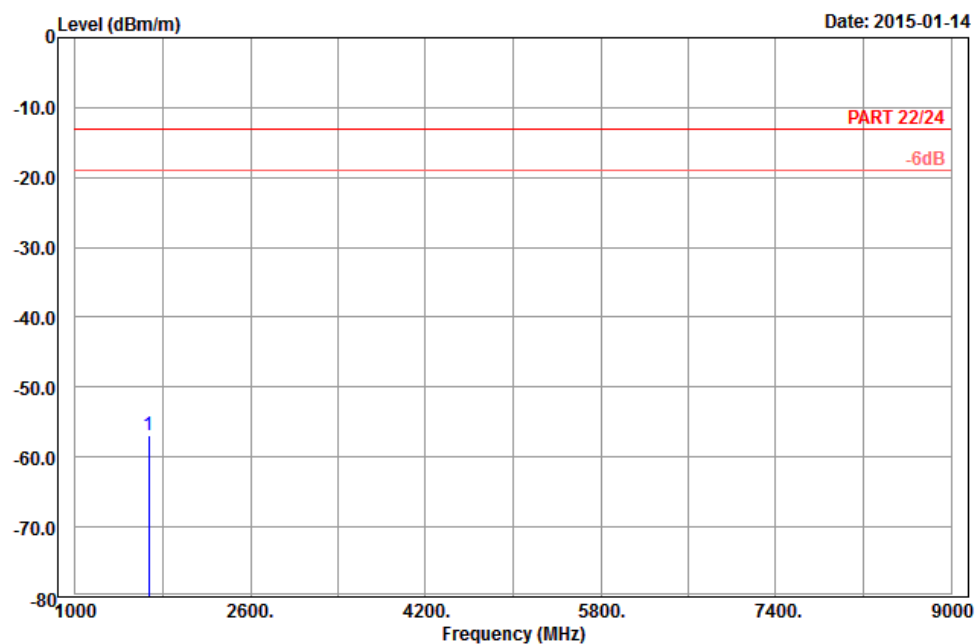


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Data: 5

Date: 2015-01-14



Site : 966 chamber 1  
Condition: PART 22/24 3m Horizontal  
Remark : EDGE 850\_Link\_CH189  
Tested by: Charles Hsiao  
Plane : X

Freq	Level	Read		Limit		Over	Factor	Remark
		Level	Line	Level	Line			
MHz	dBm/m	dBm	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp 1672.80	-56.91	-64.82	-13.00	-43.91	-13.00	-43.91	7.91	Peak



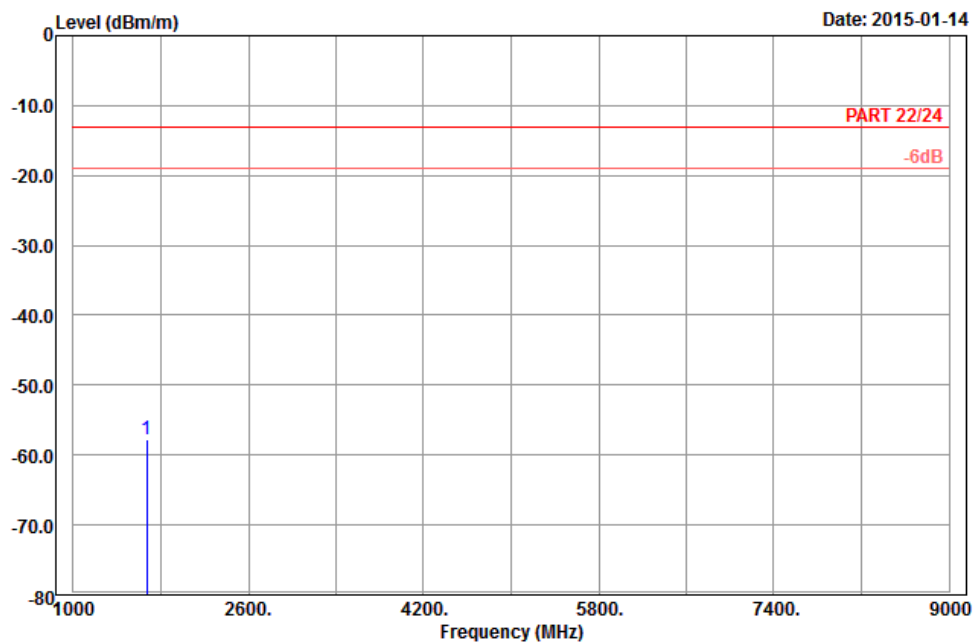
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Data: 6



Site : 966 chamber 1  
Condition: PART 22/24 3m Vertical  
Remark : EDGE 850\_Link\_CH189  
Tested by: Charles Hsiao  
Plane : X

Freq	Level	Read		Limit		Over	Factor	Remark
		Level	Line	Level	Line			
MHz	dBm/m	dBm	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp 1672.80	-57.75	-65.66	-13.00	-44.75	7.91			Peak

# WCDMA:

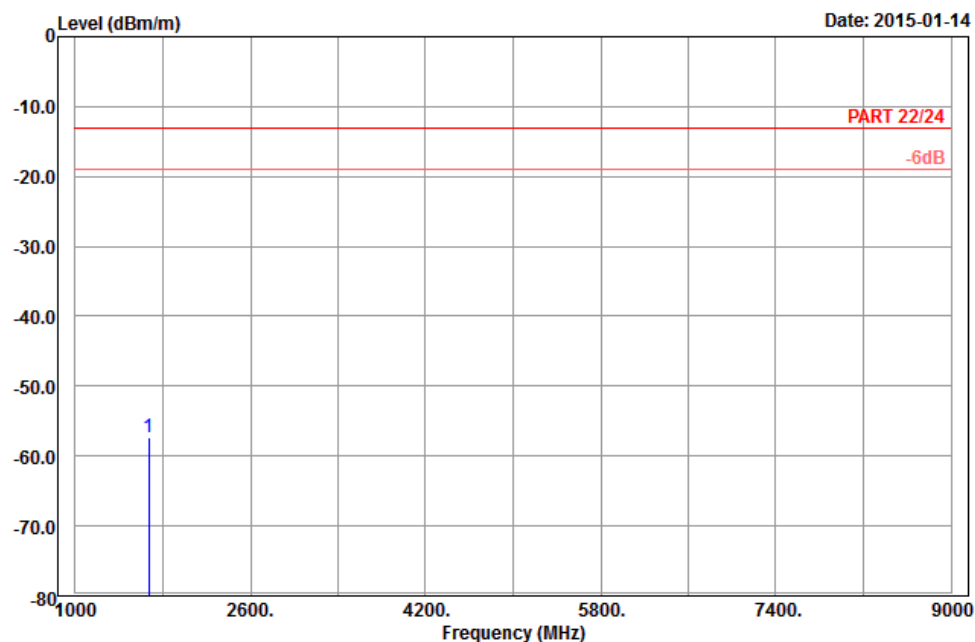


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A D T

Data: 5

Date: 2015-01-14



Site : 966 chamber 1  
Condition: PART 22/24 3m Horizontal  
Remark : Band V\_Link\_CH4182  
Tested by: Charles Hsiao  
Plane : X

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	1672.80	-57.40	-65.31	-13.00	-44.40	7.91	Peak



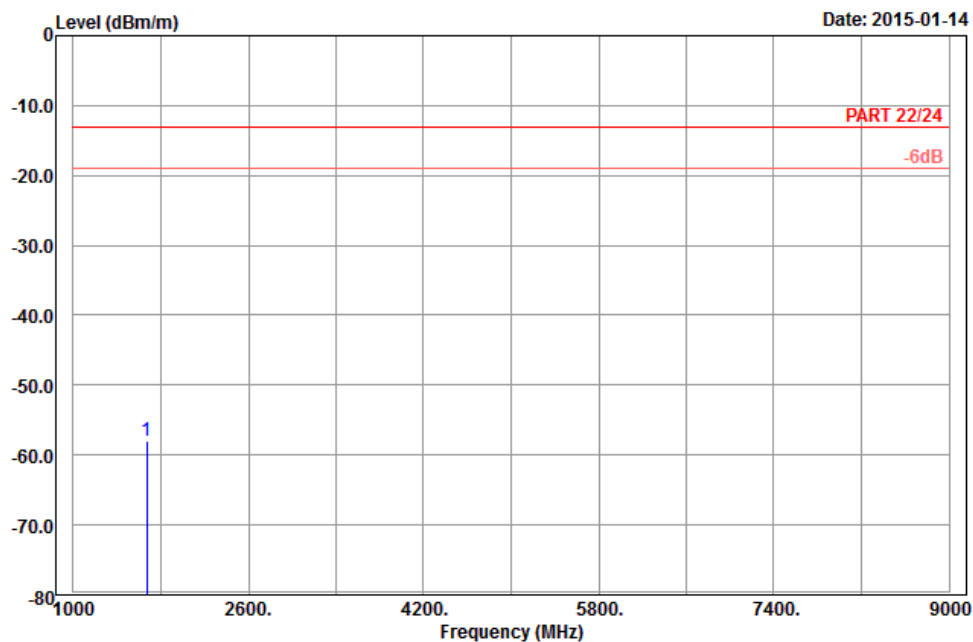
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A D T

Data: 6



Site : 966 chamber 1  
Condition: PART 22/24 3m Vertical  
Remark : Band V\_Link\_CH4182  
Tested by: Charles Hsiao  
Plane : X

Freq	Level	Read	Limit	Over		Remark
		Level	Line	Limit	Factor	
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp 1672.80	-57.94	-65.85	-13.00	-44.94	7.91	Peak

## 5 PHOTOGRAPHS OF THE TEST CONFIGURATION

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

## 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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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 were made to the EUT by the lab during the test.

---END---