

# FCC Part 15

## TEST REPORT

*For*

### **GSM and GPRS Digital Mobile Phone**

**Model Name: GM606**

**Brand Name: GOWELL**

**Model Name: RMP-606GMW**

**Brand Name: RIVIERA**

**FCC ID: YOQ-RMP606GMW**

**Report No.: AGC11421007SZ04-2F2B**

**Date of Issue: Aug.05, 2010**

*Prepared For*

**AUDIOVISION ELECTRONICA AUDIOELEC S.A.**

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## VERIFICATION OF COMPLIANCE

Applicant:	AUDIOVISION ELECTRONICA AUDIOELEC S.A.	
Address	Km. 11 ½ Via a Daule, Lotizacion Inmaconsa, Calle B y Gama, 2do. Callejon 24 GUAYAQUIL, ECUADOR	
Product Description:	GSM and GPRS Digital Mobile Phone	
Model Number:	GM606	Brand Name: GOWELL
Model Number:	RMP-606GMW	Brand Name: RIVIERA
FCC ID	YOQ-RMP606GMW	
Report Number:	AGC11421007SZ04-2F2B	
Date of Test:	Jul.28, 2010 to Aug.05, 2010	

### WE HEREBY CERTIFY THAT:

The above equipment was tested by Attestation of Global Compliance Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2009) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Checked By:

Catherine Chen

Catherine Chen Aug.05, 2010

Authorized By:

King Zhang

King Zhang Aug.05, 2010

## TABLE OF CONTENTS

<b>1. GENERAL INFORMATION .....</b>	<b>4</b>
1.1 PRODUCT DESCRIPTION.....	4
1.2 RELATED SUBMITTAL(S) / GRANT (S) .....	4
1.3 TEST METHODOLOGY .....	4
1.4 TEST FACILITY .....	4
1.5 SPECIAL ACCESSORIES.....	4
1.6 EQUIPMENT MODIFICATIONS .....	4
<b>2. SYSTEM TEST CONFIGURATION.....</b>	<b>5</b>
2.1 CONFIGURATION OF TESTED SYSTEM .....	5
2.2 EQUIPMENT USED IN TESTED SYSTEM .....	5
<b>3. SUMMARY OF TEST RESULTS .....</b>	<b>6</b>
<b>4. DESCRIPTION OF TEST MODES.....</b>	<b>6</b>
<b>5. CONDUCTION EMISSIONS .....</b>	<b>7</b>
5.1 MEASUREMENT PROCEDURE: .....	7
5.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) .....	7
5.3 MEASUREMENT EQUIPMENT USED: .....	7
5.4 LIMITS AND MEASUREMENT RESULT:.....	8
5.5 TEST RESULT OF LINE CONDUCTED EMISSION TEST .....	9
<b>6. MAXIMUM OUTPUT POWER .....</b>	<b>11</b>
6.1 MEASUREMENT PROCEDURE: .....	11
6.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) .....	11
6.3 MEASUREMENT EQUIPMENT USED: .....	14
6.4 LIMITS AND MEASUREMENT RESULT:.....	15
<b>7. 20 DB BANDWIDTH .....</b>	<b>17</b>
7.1 MEASUREMENT PROCEDURE .....	17
7.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) .....	17
7.3 MEASUREMENT EQUIPMENT USED: .....	17
7.4 LIMITS AND MEASUREMENT RESULTS:.....	17
<b>8. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY.....</b>	<b>19</b>
8.1 MEASUREMENT PROCEDURE: .....	19
8.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) .....	19
8.3 MEASUREMENT EQUIPMENT USED: .....	19
8.4 LIMITS AND MEASUREMENT RESULT:.....	19
<b>9. OUT OF BAND EMISSION .....</b>	<b>20</b>

9.1 MEASUREMENT PROCEDURE: .....	20
9.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) .....	20
9.3 MEASUREMENT EQUIPMENT USED: .....	20
9.4 LIMITS AND MEASUREMENT RESULT: .....	20
<b>10. NUMBER OF HOPPING FREQUENCY .....</b>	<b>29</b>
10.1 MEASUREMENT PROCEDURE .....	29
10.2 TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION) .....	29
10.3 MEASUREMENT EQUIPMENT USED .....	29
10.4 LIMITS AND MEASUREMENT RESULT: .....	29
<b>11. TIME OF OCCUPANCY (DWELL TIME) .....</b>	<b>31</b>
11.1 MEASUREMENT PROCEDURE .....	31
11.2 TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION) .....	31
11.3 MEASUREMENT EQUIPMENT USED .....	31
11.4 LIMITS AND MEASUREMENT RESULT .....	31
<b>12. FREQUENCY SEPARATION .....</b>	<b>32</b>
12.1 MEASUREMENT PROCEDURE .....	37
12.2 TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION) .....	37
12.3 MEASUREMENT EQUIPMENT USED .....	37
12.4 LIMITS AND MEASUREMENT RESULT .....	37
<b>APPENDIX I .....</b>	<b>39</b>
<b>PHOTOGRAPHS OF THE EUT .....</b>	<b>39</b>
<b>APPENDIX II .....</b>	<b>43</b>
<b>PHOTOGRAPHS OF THE TEST SETUP .....</b>	<b>43</b>

## 1. GENERAL INFORMATION

### 1.1 PRODUCT DESCRIPTION

The EUT is a short range, lower power; **GSM MOBILE PHONE** designed as an “Communication Device”. It is designed by way of utilizing the FHSS technology to achieve the system operation.

A major technical description of EUT is described as following:

Operation Frequency	2.402 GHz to 2.480GHz
Rated Output Power	-3.07 dBm
Modulation	GFSK
Number of channels	79
Antenna Designation	Integrated Antenna
Power Supply	Internal Lion Composite Battery DC 3.6~4.2V
Travel Adapter	Output :DC5.0V

### 1.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for FCC ID: YOQ-RMP606GMW filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

### 1.3 TEST METHODOLOGY

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2009). Radiated testing was performed at an antenna to EUT distance 3 meters.

### 1.4 TEST FACILITY

All measurement facilities used to collect the measurement data are located at  
Attestation of Global Compliance Co., Ltd.  
2F., No.2 Building, Huafeng No.1 Technical Industrial Park, Sanwei, Xixiang, Baoan District, Shenzhen  
The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2009.  
FCC register No.: 259865

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with preselectors and quasi-peak detectors are used to perform radiated measurements.

### 1.5 SPECIAL ACCESSORIES

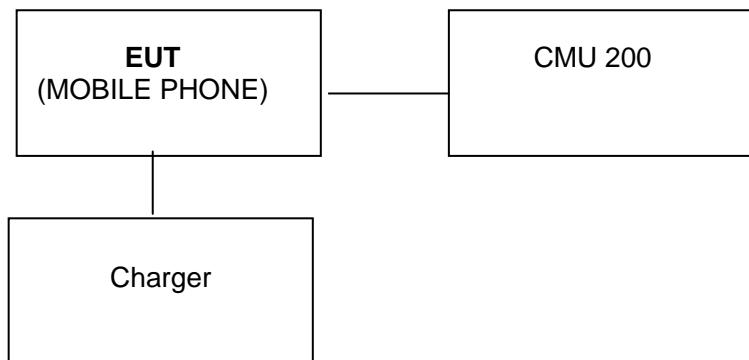
Not available for this EUT intended for grant.

### 1.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

## 2. SYSTEM TEST CONFIGURATION

### 2.1 CONFIGURATION OF TESTED SYSTEM



### 2.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID
1	MOBILE PHONE	GOWELL	GM606	YOQ-RMP606GMW
2	CMU	R&S	CMU 200	--
3	Charger	RIVIERA	TYP60-0500500Z	--

### 3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.207	Conduction Emission	Compliant
§15.209	Radiated Emission	Compliant
§15.247	Maximum Output Power	Compliant
§15.247	20 dB Bandwidth	Compliant
§15.247	Band Edges	Compliant
§15.247	Spurious Emission	Compliant
§15.247	Frequency Separation	Compliant
§15.247	Number of Hopping Frequency	Compliant
§15.247	Time of Occupancy	Compliant

### 4. DESCRIPTION OF TEST MODES

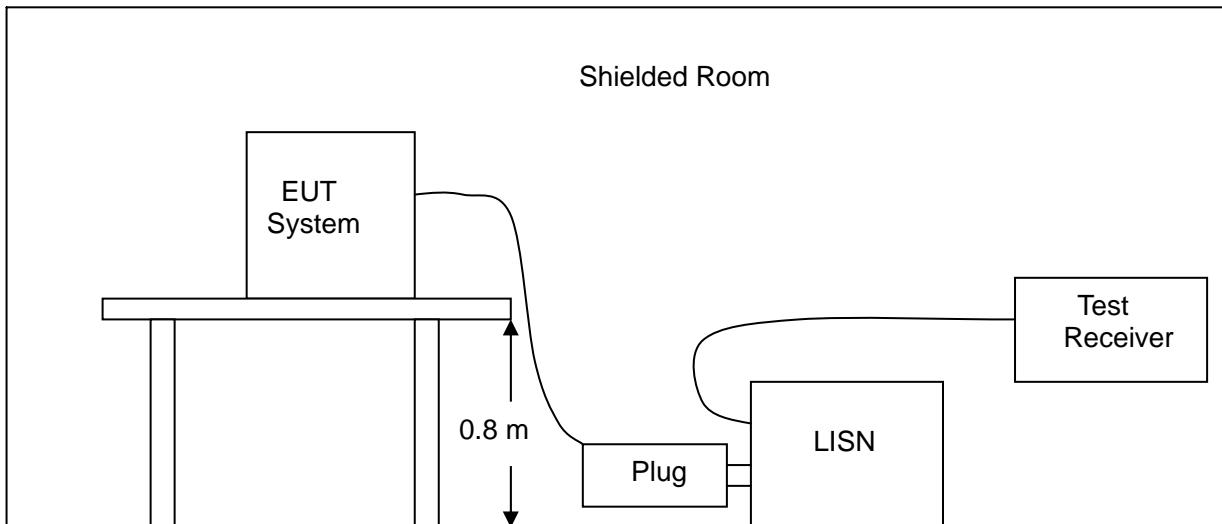
1. The EUT has been set to operate continuously on the lowest, the middle and the highest operation frequency individually.
2. The EUT stays in continuous transmitting mode on the operation frequency being set.

## 5. CONDUCTION EMISSIONS

### 5.1 MEASUREMENT PROCEDURE:

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4.
2. Support equipment, if needed, was placed as per ANSI C63.4.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
4. The EUT received DC3.7V through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.

### 5.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



### 5.3 MEASUREMENT EQUIPMENT USED:

Conducted Emission Test Site				
Name of Equipment	Manufacturer	Model	Serial Number	Cal. Date
Test Receiver	Rohde & Schwarz	ESCI	1166.5950.03	05/08/2010
LISN 1	Rohde & Schwarz	ESH3-Z5	831.5518.52	05/08/2010
LISN 2	Rohde & Schwarz	ESH3-Z5	831.5518.52	05/08/2010
50 Coaxial Switch	Anritsu	MP59B	M20531	05/29/2010

#### 5.4 LIMITS AND MEASUREMENT RESULT:

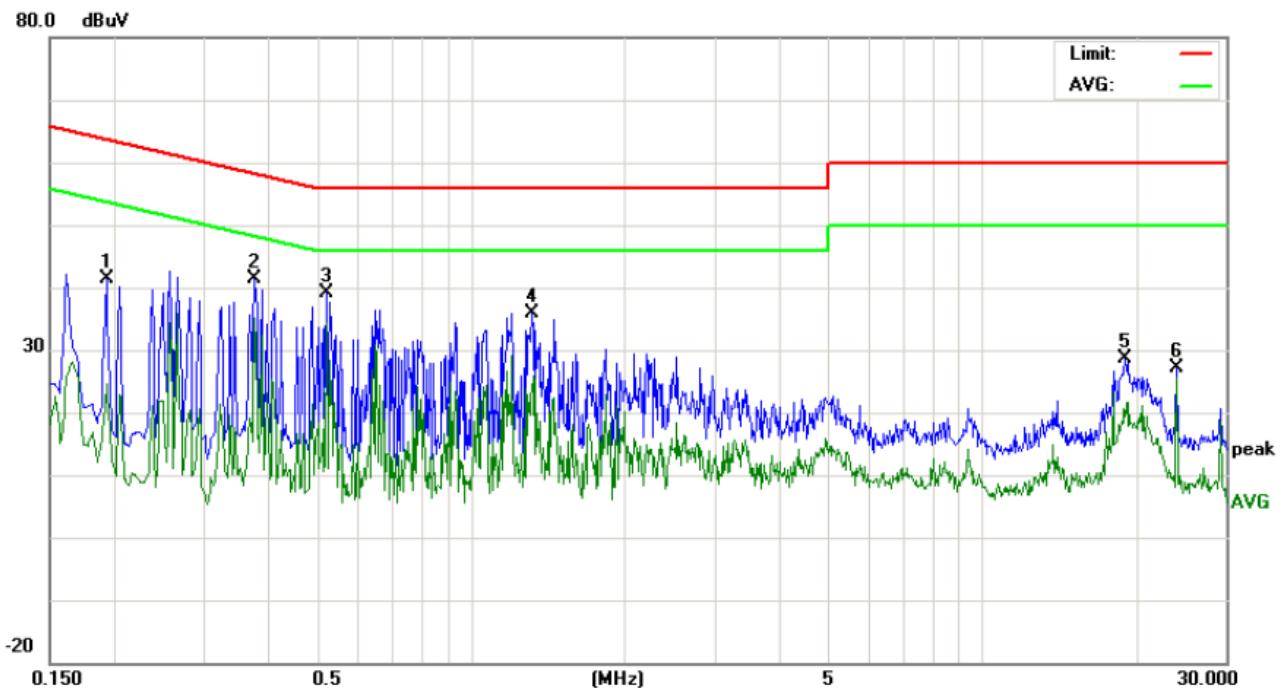
##### LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.( dBuV)	Average( dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

1\*\*Note: 1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

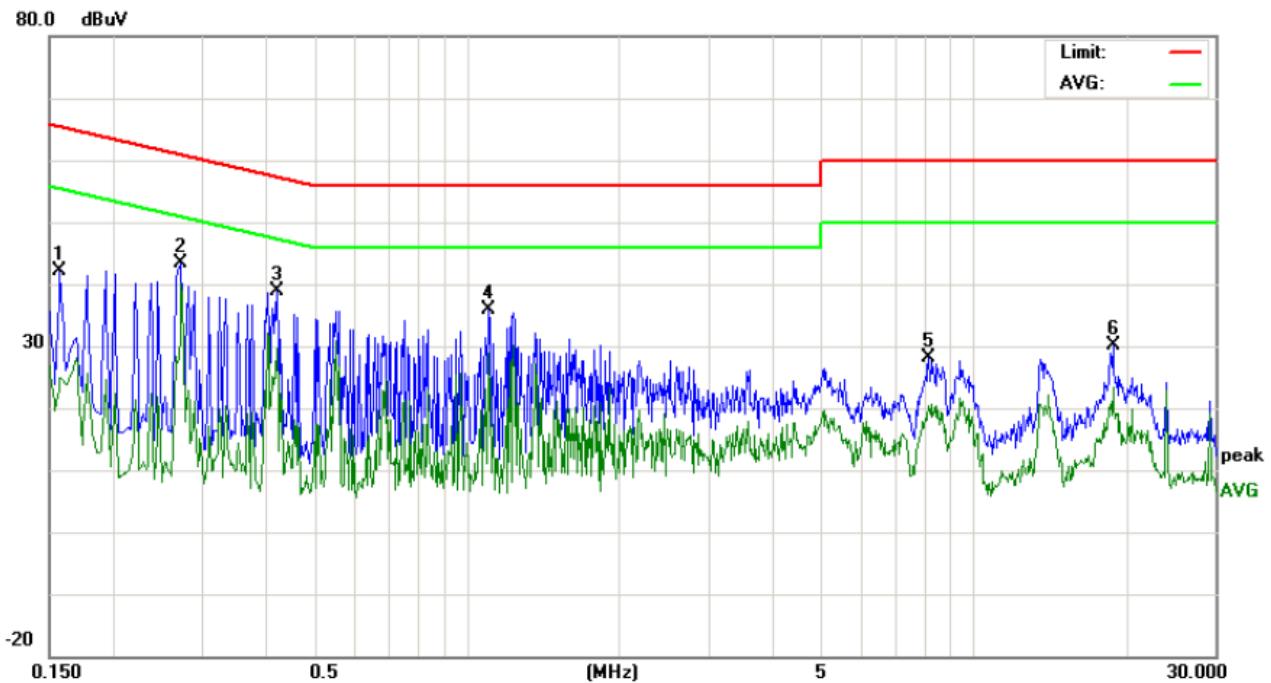
**TEST RESULT OF LINE –L CONDUCTED EMISSION TEST**



Site: Conduction Phase: **L1** Temperature: 26  
 Limit: FCC Class B Conduction Power: AC 110V/60Hz Humidity: 60 %  
 EUT: MOBILE PHONE  
 M/N:  
 Mode: GM606  
 Note:

No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1940	31.27		14.34	10.20	41.47		24.54	63.86	53.86	-22.39	-29.32	P	
2	0.3780	31.08		25.03	10.20	41.28		35.23	58.32	48.32	-17.04	-13.09	P	
3	0.5220	29.01		24.05	10.20	39.21		34.25	56.00	46.00	-16.79	-11.75	P	
4	1.3180	25.56		13.35	10.20	35.76		23.55	56.00	46.00	-20.24	-22.45	P	
5	19.0700	18.55		9.17	10.12	28.67		19.29	60.00	50.00	-31.33	-30.71	P	
6	24.0180	17.10		15.51	10.11	27.21		25.62	60.00	50.00	-32.79	-24.38	P	

**TEST RESULT OF LINE -N CONDUCTED EMISSION TEST**



Site: Conduction  
Limit: FCC Class B Conduction  
EUT: MOBILE PHONE  
M/N:  
Mode: GM606  
Note:

Phase: **N**  
Power: AC 110V/60Hz

Temperature: 26  
Humidity: 60 %

No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1580	25.50		16.73	10.20	35.70		26.93	65.56	55.56	-29.86	-28.63	P	
2	0.2740	33.27		29.90	10.20	43.47		40.10	60.99	50.99	-17.52	-10.89	P	
3	0.4220	28.73		19.30	10.20	38.93		29.50	57.41	47.41	-18.48	-17.91	P	
4	1.1100	25.66		18.62	10.20	35.86		28.82	56.00	46.00	-20.14	-17.18	P	
5	8.1500	17.89		10.25	10.20	28.09		20.45	60.00	50.00	-31.91	-29.55	P	
6	18.8580	19.98		13.23	10.12	30.10		23.35	60.00	50.00	-29.90	-26.65	P	

## 6. MAXIMUM OUTPUT POWER

### 6.1 MEASUREMENT PROCEDURE:

#### CONDUCTED METHOD

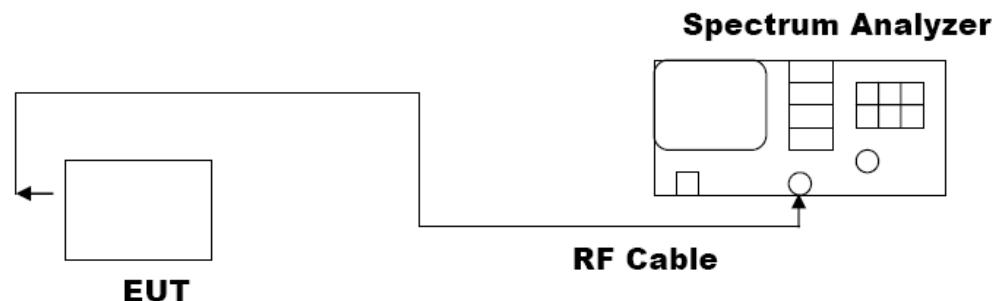
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Set SPA Centre Frequency = Operation Frequency, RBW= 1 MHz,  
VBW= 1 MHz.
5. Set SPA Trace 1 Max hold, then View.

#### RADIATED METHOD

According to ANSI C63.4:2009

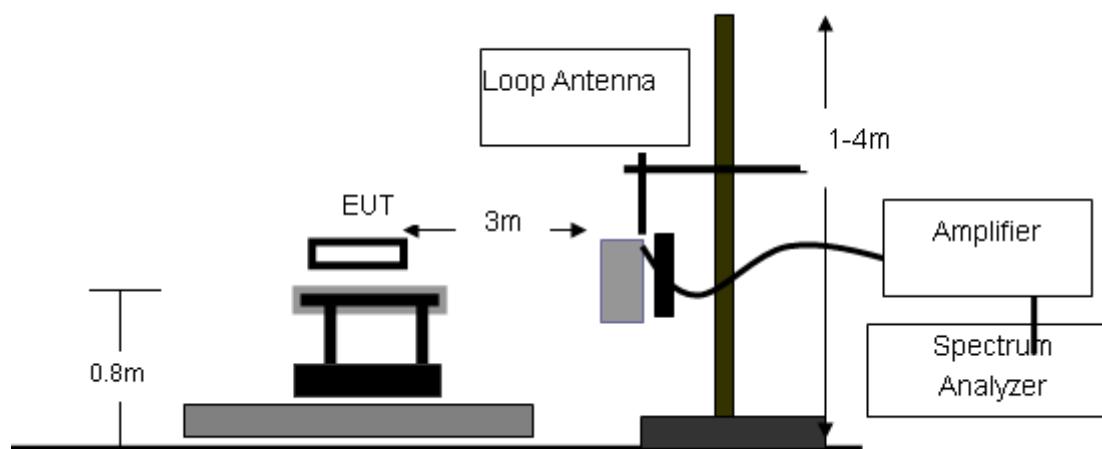
### 6.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

#### CONDUCTED METHOD

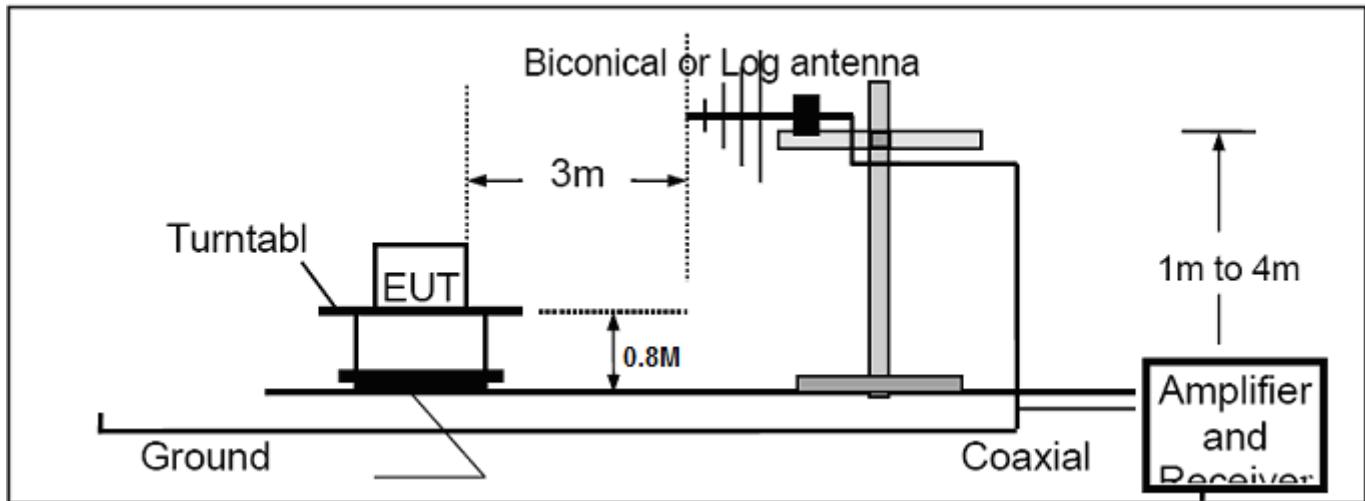


#### RADIATED EMISSION TEST SETUP

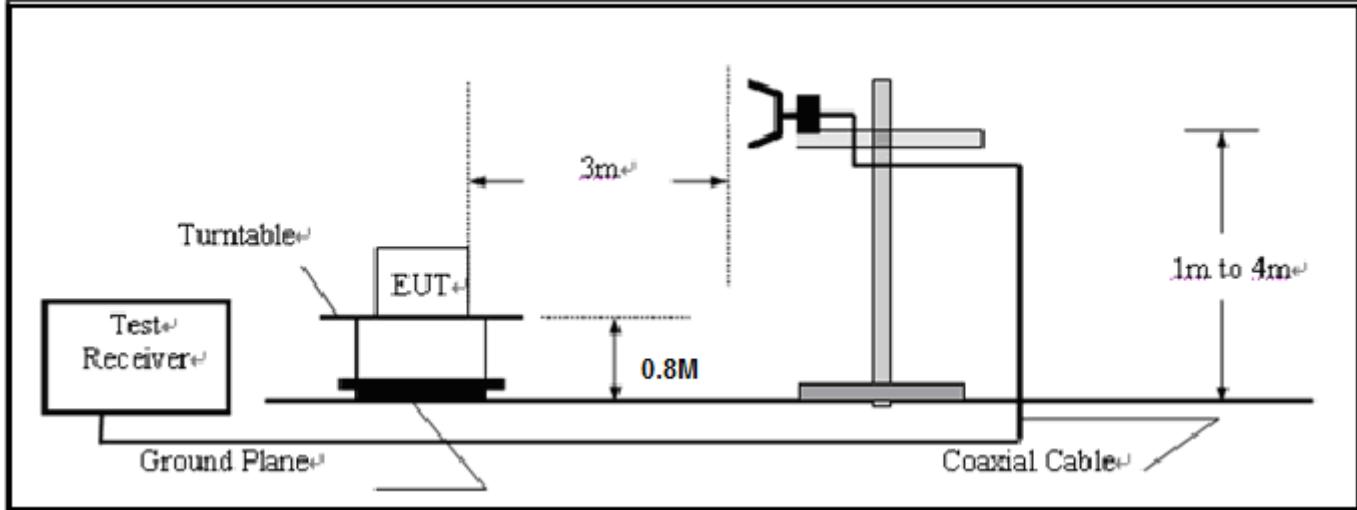
RADIATED MISSION TEST SETUP BELOW 30MHz



RADIATED MISSION TEST SETUP 30MHz-1000MHz

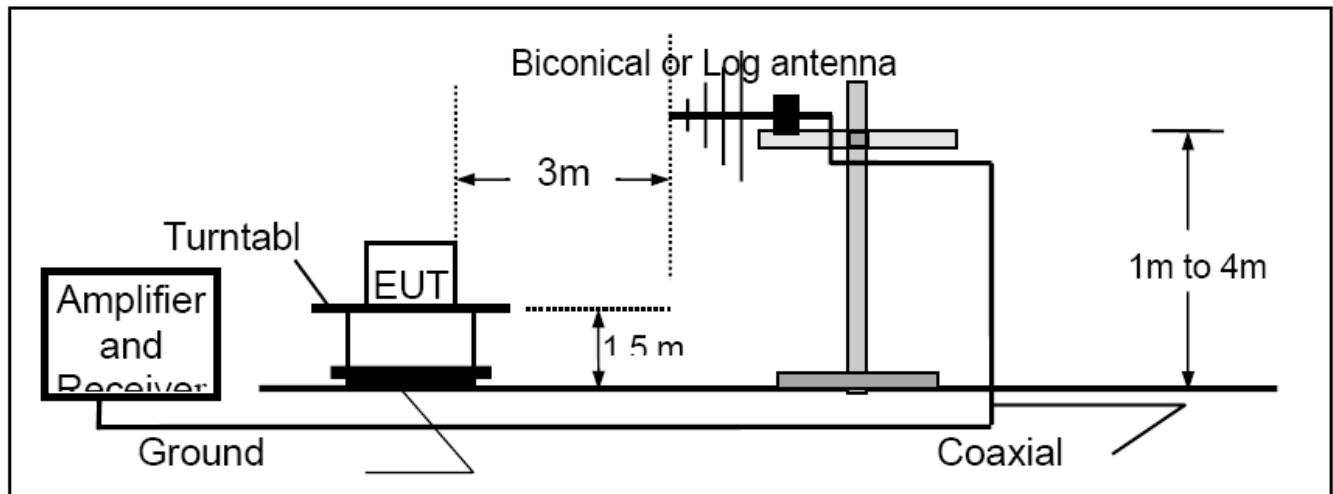


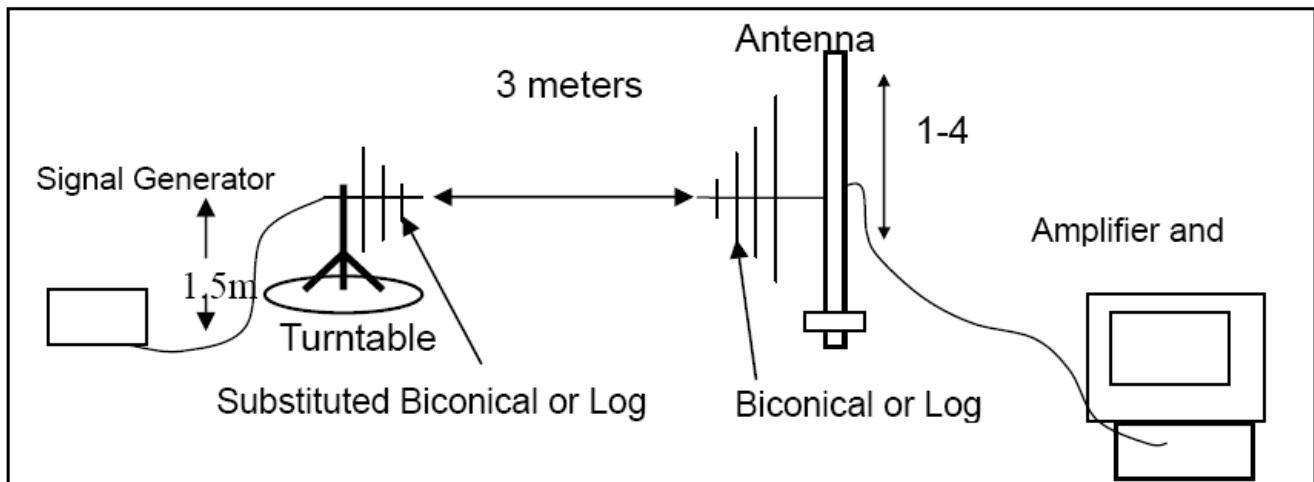
RADIATED MISSION TEST SETUP ABOVE 1000MHz



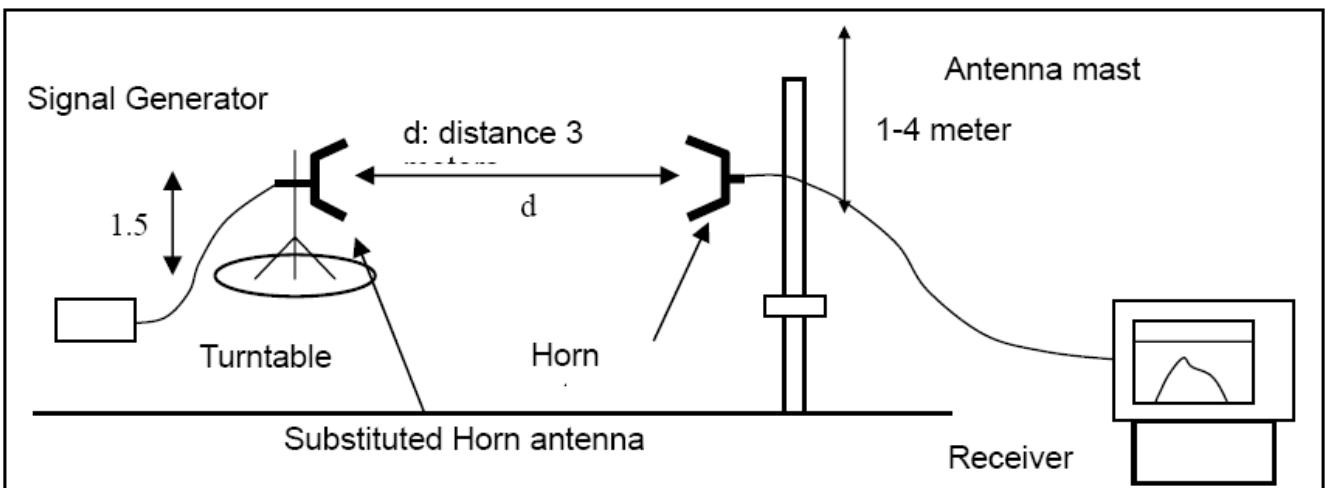
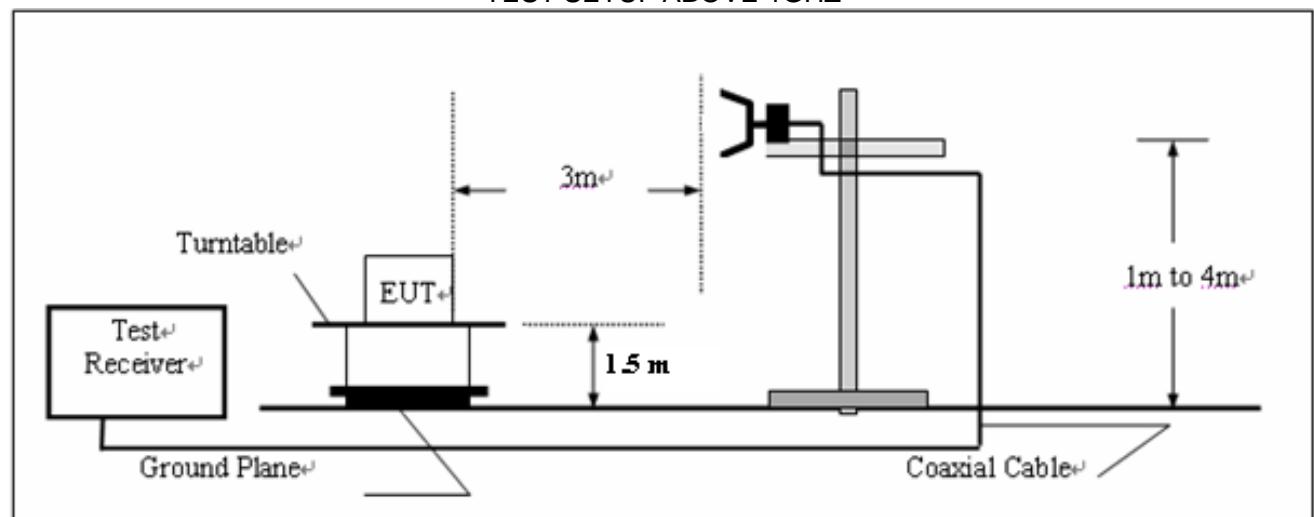
EIRP TEST SETUP

TEST SETUP BELOW 1GHZ





TEST SETUP ABOVE 1GHZ



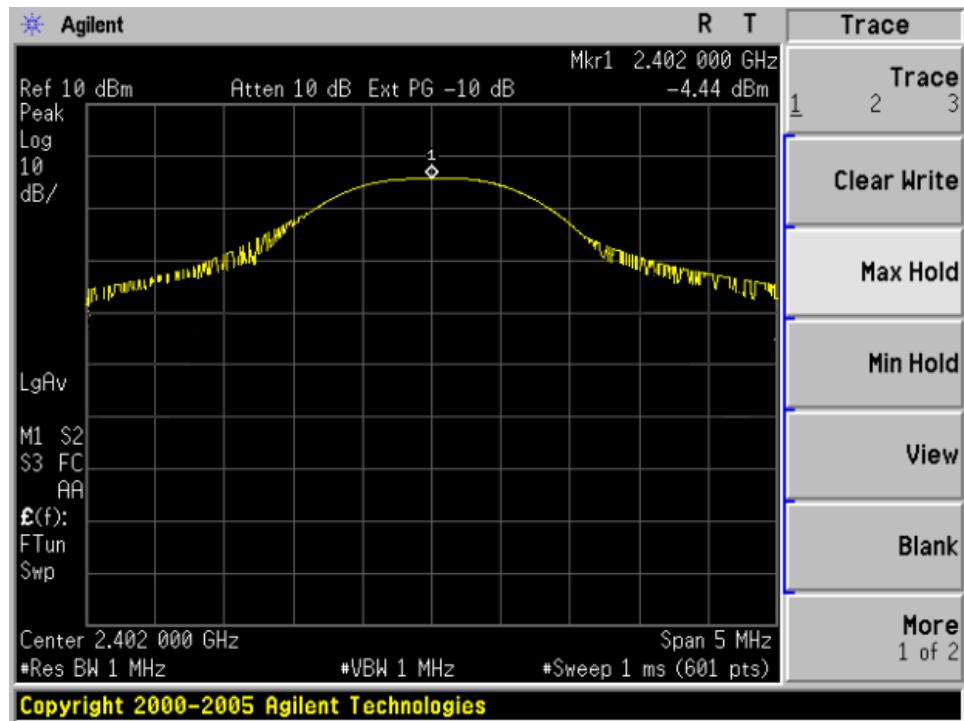
### 6.3 MEASUREMENT EQUIPMENT USED:

Description	Manufacturer	Model	SERIAL NUMBER	Cal. Date	Cal. Due
Spectrum Analyzer	Rohde & Schwarz	FSEM30	849720/019	05/29/2010	05/29/2011
Amplifier	H.P.	8449B	3008A00277	05/29/2010	05/29/2011
Horn Antenna	Sunol Sciences	DRH-118	A052604	05/29/2010	05/29/2011
Horn Antenna	A.H. Systems Inc.	SAS-574	--	09/05/2009	09/05/2010
EMI Test Receiver	Rohde & Schwarz	ESCI	1166.5950.03	05/08/2010	05/07/2011
Amplifier	H.P.	HP8447E	1937A01046	05/29/2010	05/29/2011
Biological Antenna	A.H. Systems Inc.	SAS-521-4	128	05/06/2010	05/05/2011
Isolation Transformer	Shanghai Yongguang Factory	BKZ SBK JBK SG	--	05/06/2010	05/05/2011

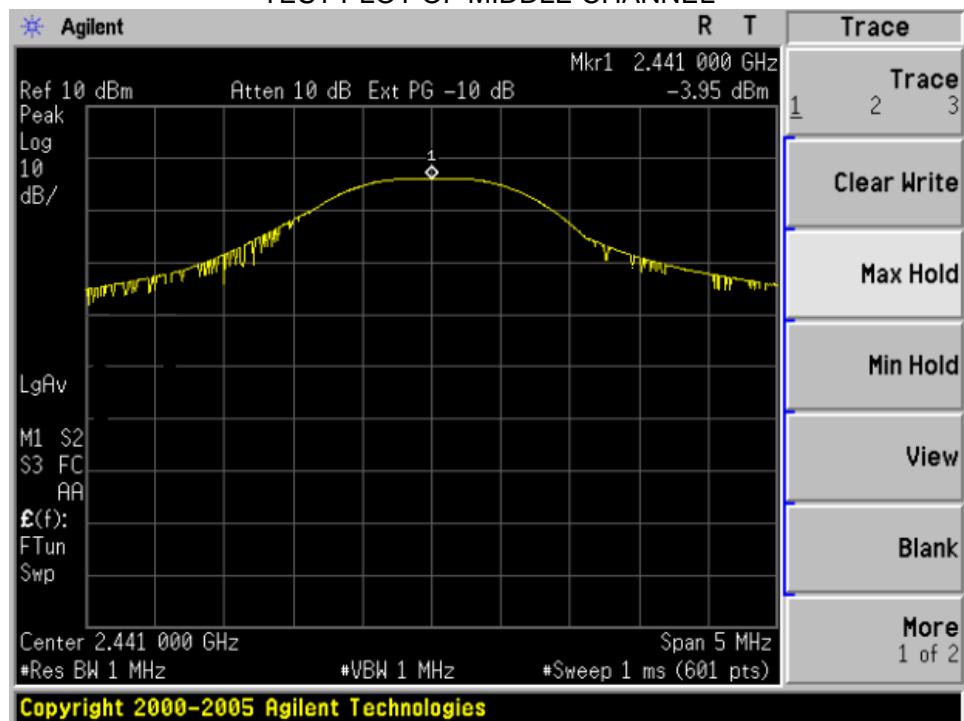
#### 6.4 LIMITS AND MEASUREMENT RESULT:

LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Frequency	Measurement Result		
		EIRP (dBm)	Conducted (dBm)	Criteria
30 dBm	2.402GHz	-3.73	-4.44	PASS
30 dBm	2.441GHz	-3.21	-3.95	PASS
30 dBm	2.480GHz	-3.07	-3.56	PASS

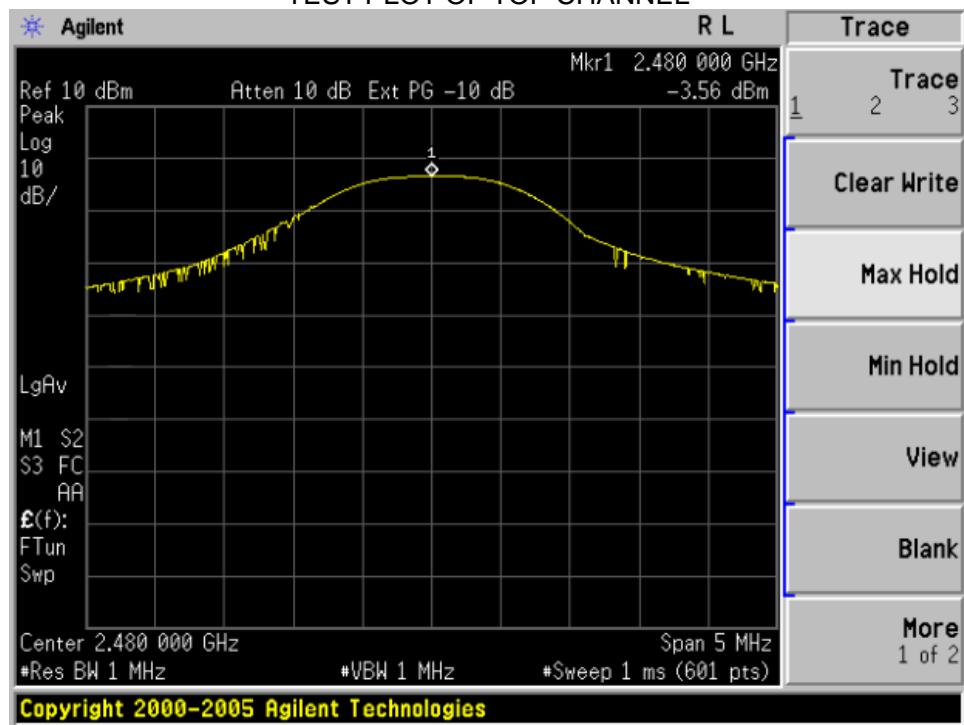
TEST PLOT OF BOTTOM CHANNEL



TEST PLOT OF MIDDLE CHANNEL



TEST PLOT OF TOP CHANNEL



## 7. 20 DB BANDWIDTH

### 7.1 MEASUREMENT PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz,  
VBW= 100 KHz.
4. Set SPA Trace 1 Max hold, then View.

### 7.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The Same as described in Section 6.2

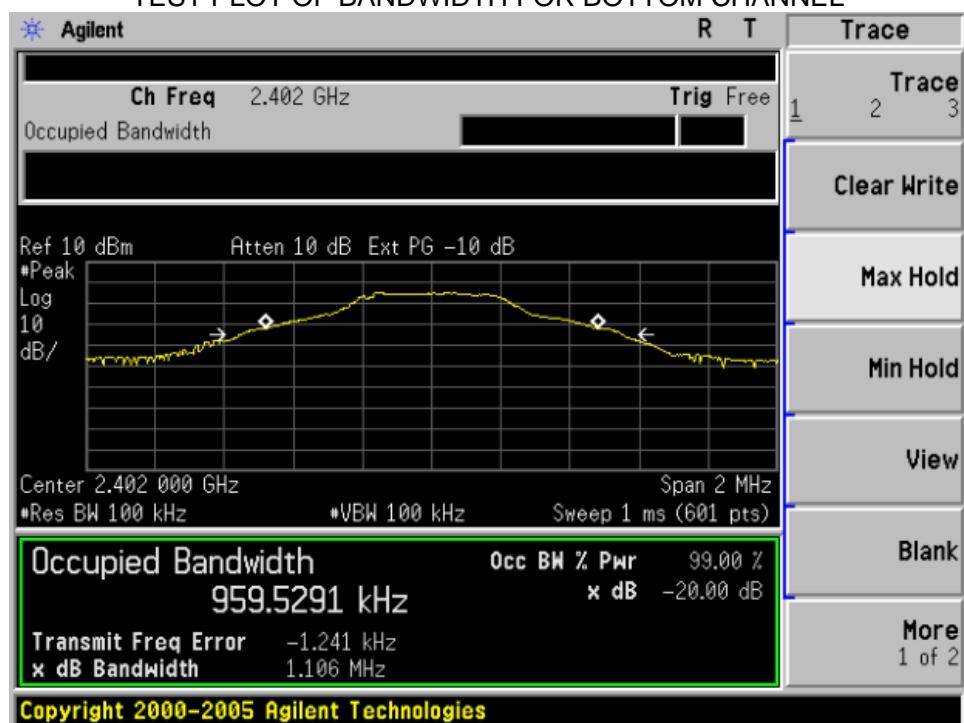
### 7.3 MEASUREMENT EQUIPMENT USED:

The same as described in Section 6.3

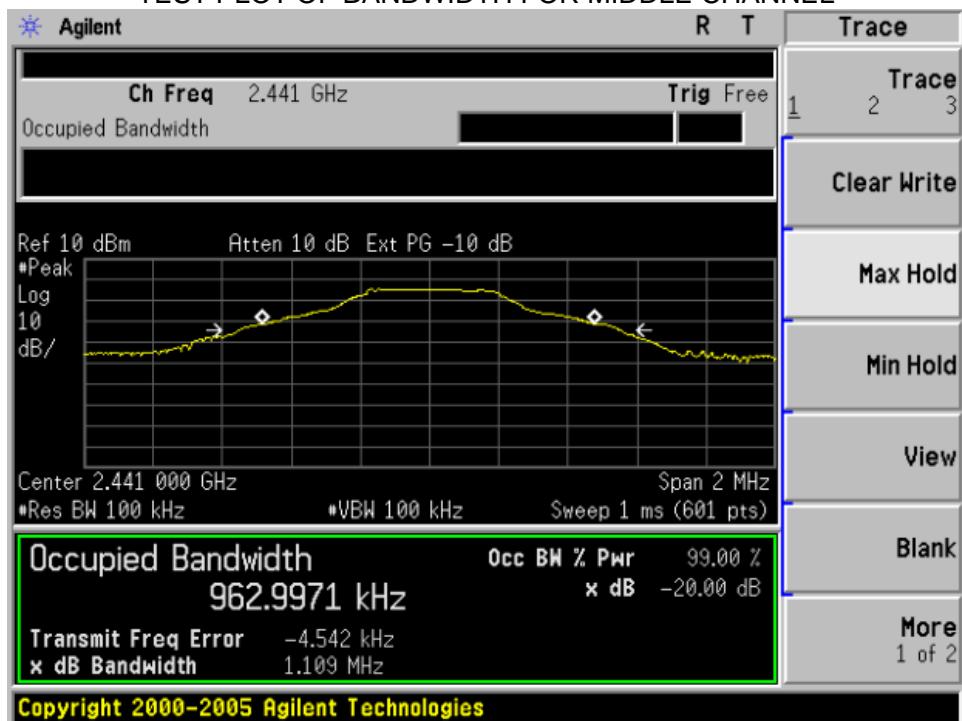
### 7.4 LIMITS AND MEASUREMENT RESULTS:

LIMITS AND MEASUREMENT RESULT			
Applicable Limits	Measurement Result		
	Test Data (MHz)	Criteria	
--	Bottom Channel	1.106	PASS
	Middle Channel	1.109	PASS
	Top Channel	1.101	PASS

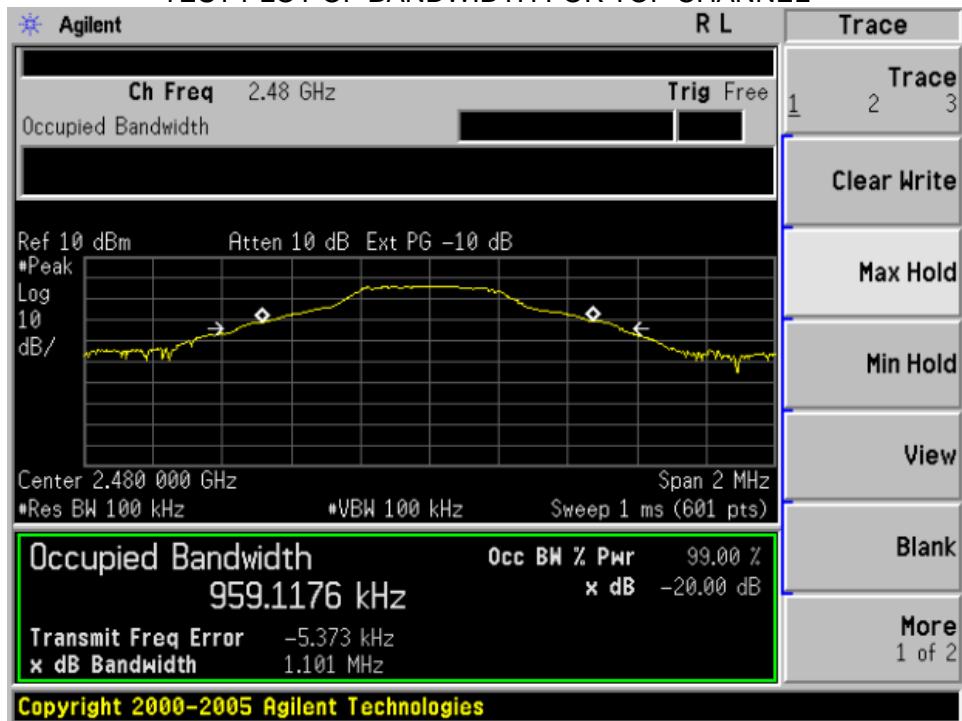
TEST PLOT OF BANDWIDTH FOR BOTTOM CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR TOP CHANNEL

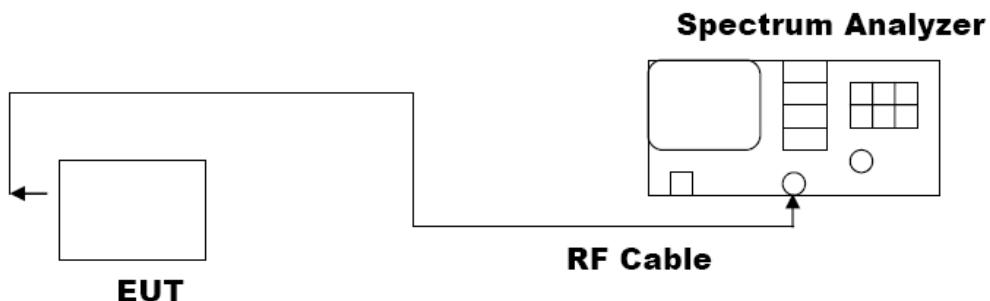


## 8. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY (N/A)

### 8.1 MEASUREMENT PROCEDURE:

- (1). The EUT was placed on a turn table which is 0.8m above ground plane.
- (2). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (3). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (4). Set SPA Centre Frequency = Operation Frequency, RBW= 3 KHz,  
VBW= 10 KHz., Sweep time= Auto
- (5). Set SPA Trace 1 Max hold, then View.

### 8.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



### 8.3 MEASUREMENT EQUIPMENT USED:

SHIELDING ROOM					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4440A	US41421290	04/16/2010	04/15/2011

### 8.4 LIMITS AND MEASUREMENT RESULT:

LIMITS AND MEASUREMENT RESULT			
Applicable Limits	Measurement Result		
	Test Data (dBm/3KHz)		Criteria
8 dBm / 3KHz	Bottom Channel	--	--
	Middle Channel	--	--
	Top Channel	--	--

## 9. OUT OF BAND EMISSION

### 9.1 MEASUREMENT PROCEDURE:

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz,  
VBW= 100 KHz.
4. Set SPA Trace 1 Max hold, then View.

### 9.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The Same as described in section 6.2

1. Conducted test setup
2. Radiated Emission test Setup below 1GHz and Above 1GHz

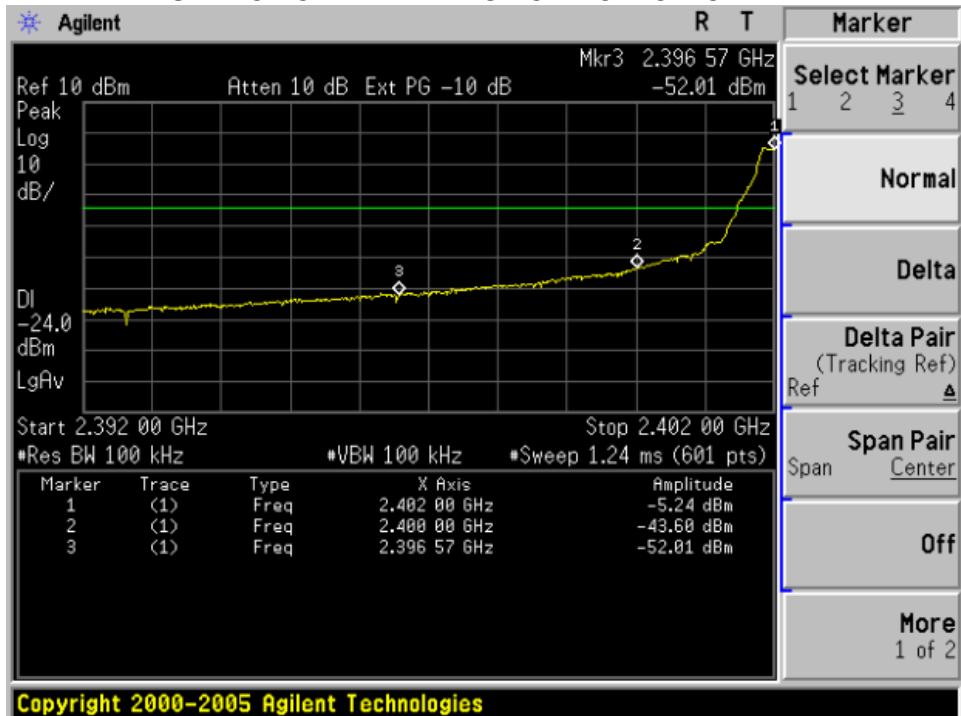
### 9.3 MEASUREMENT EQUIPMENT USED:

The Same as described in section 6.3

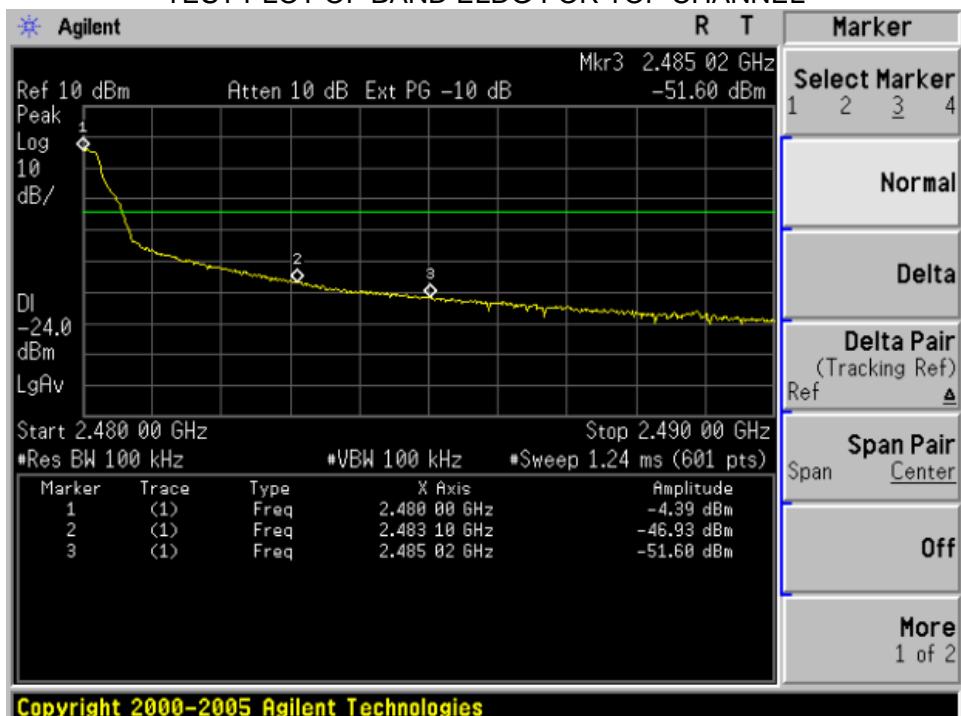
### 9.4 LIMITS AND MEASUREMENT RESULT:

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS
In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a))	At least -20dBc than the limit Specified on the TOP Channel	PASS

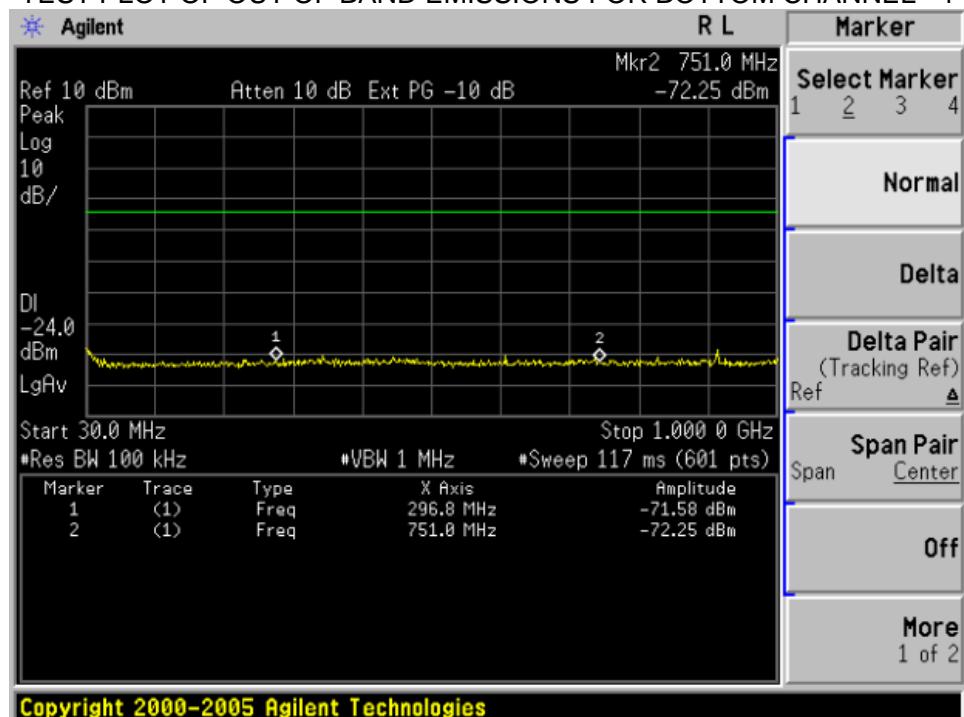
TEST PLOT OF BAND ELDG FOR BOTTOM CHANNEL



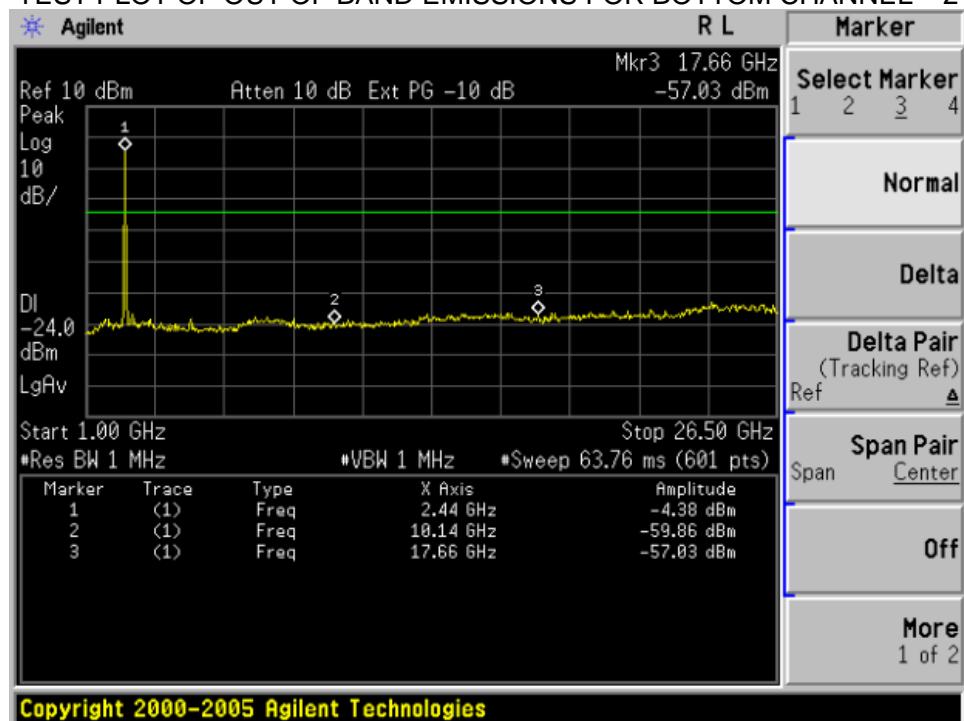
TEST PLOT OF BAND ELDG FOR TOP CHANNEL



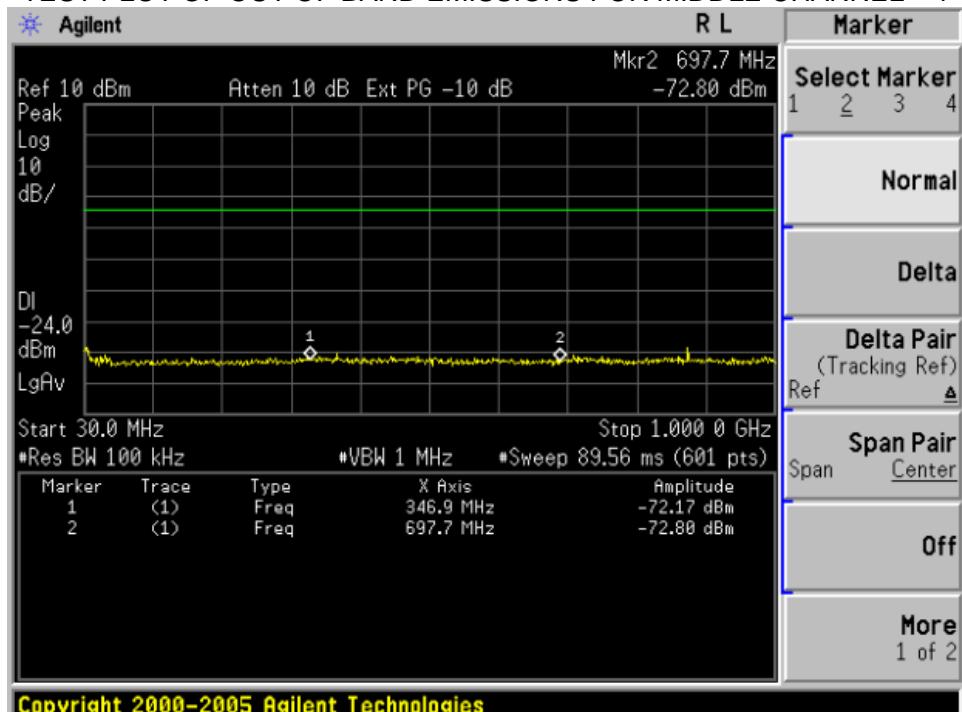
TEST PLOT OF OUT OF BAND EMISSIONS FOR BOTTOM CHANNEL - 1



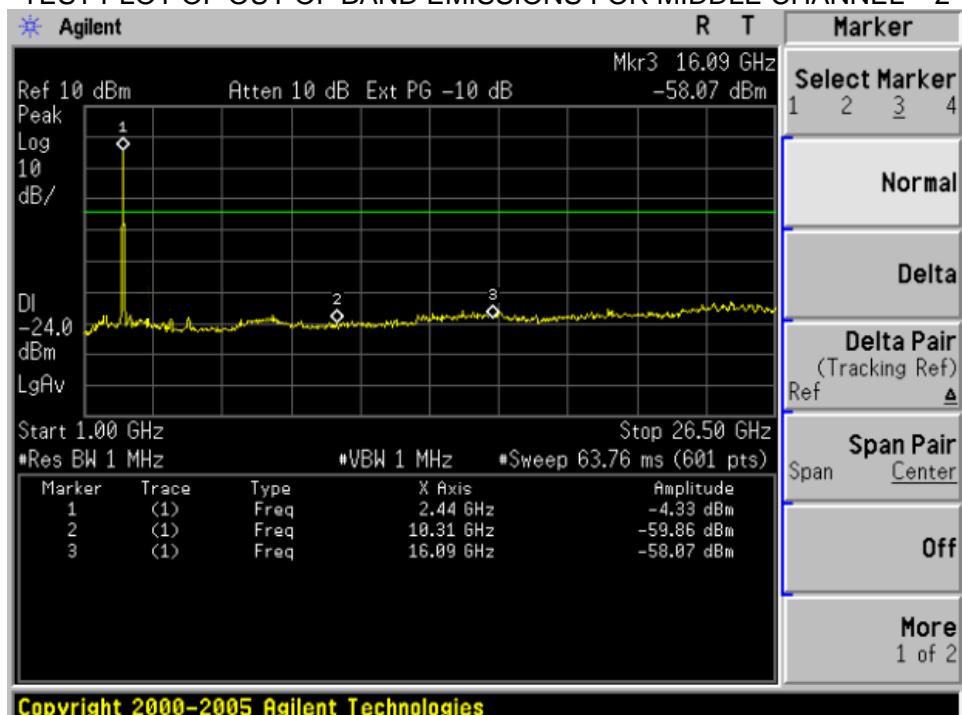
TEST PLOT OF OUT OF BAND EMISSIONS FOR BOTTOM CHANNEL - 2



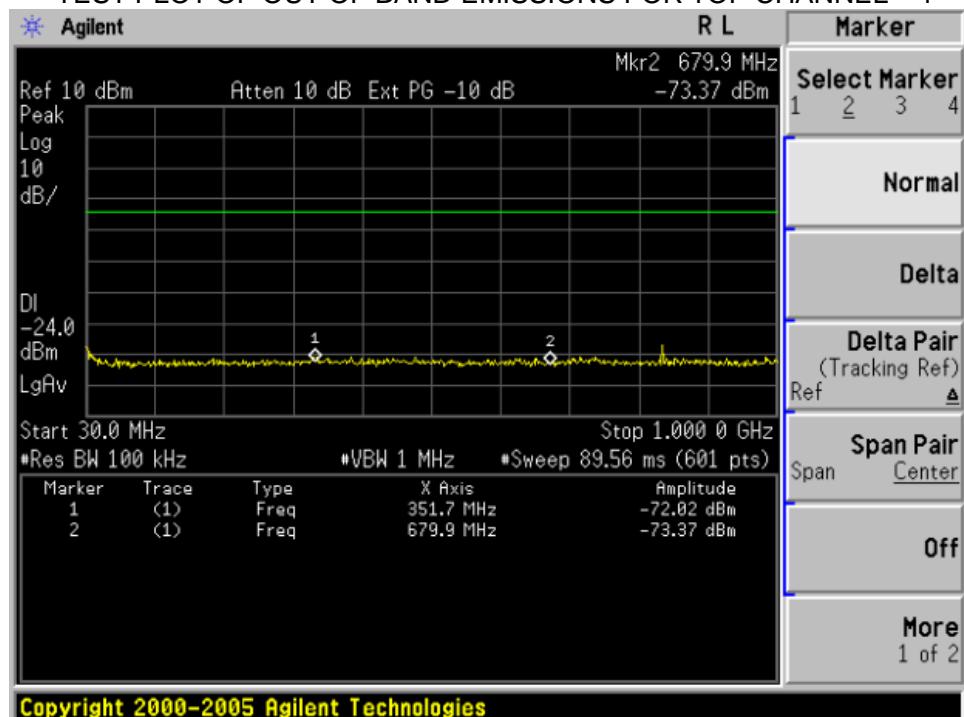
TEST PLOT OF OUT OF BAND EMISSIONS FOR MIDDLE CHANNEL – 1



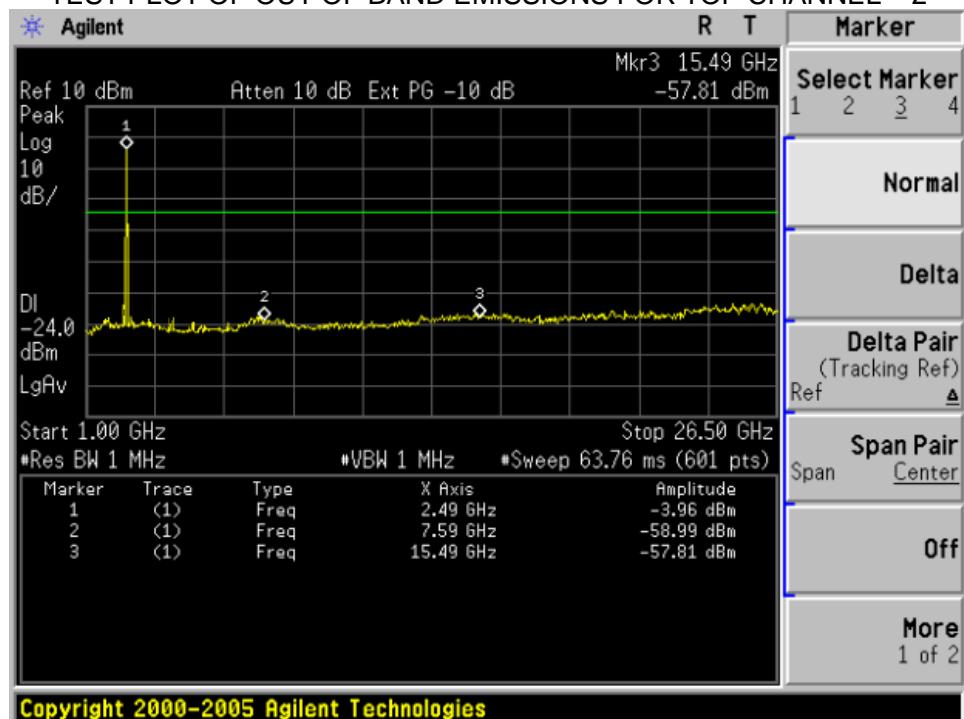
TEST PLOT OF OUT OF BAND EMISSIONS FOR MIDDLE CHANNEL – 2



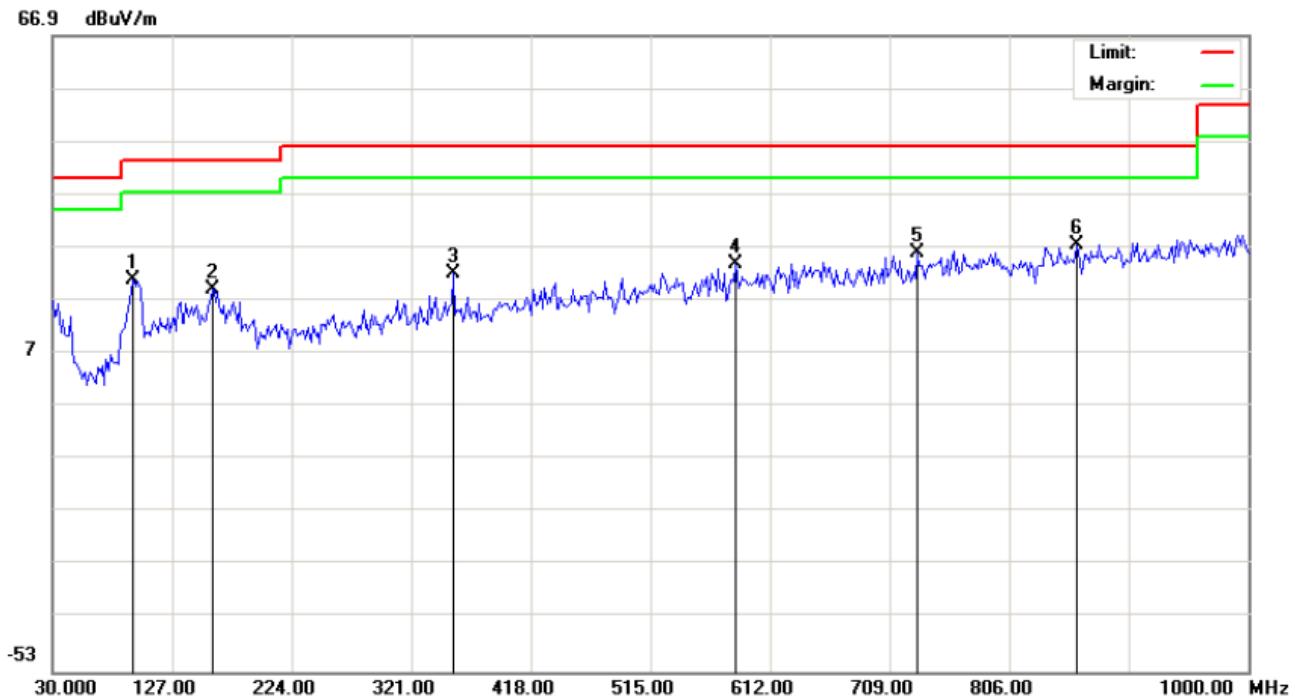
TEST PLOT OF OUT OF BAND EMISSIONS FOR TOP CHANNEL – 1



TEST PLOT OF OUT OF BAND EMISSIONS FOR TOP CHANNEL – 2



## RADIATED EMISSION BELOW 1GHZ



Site: site #1

Polarization: **Horizontal**

Temperature: 26

Limit: FCC Class B 3M Radiation

Power: AC 110V/60Hz

Humidity: 60 %

EUT: MOBILE PHONE

Distance: 3m

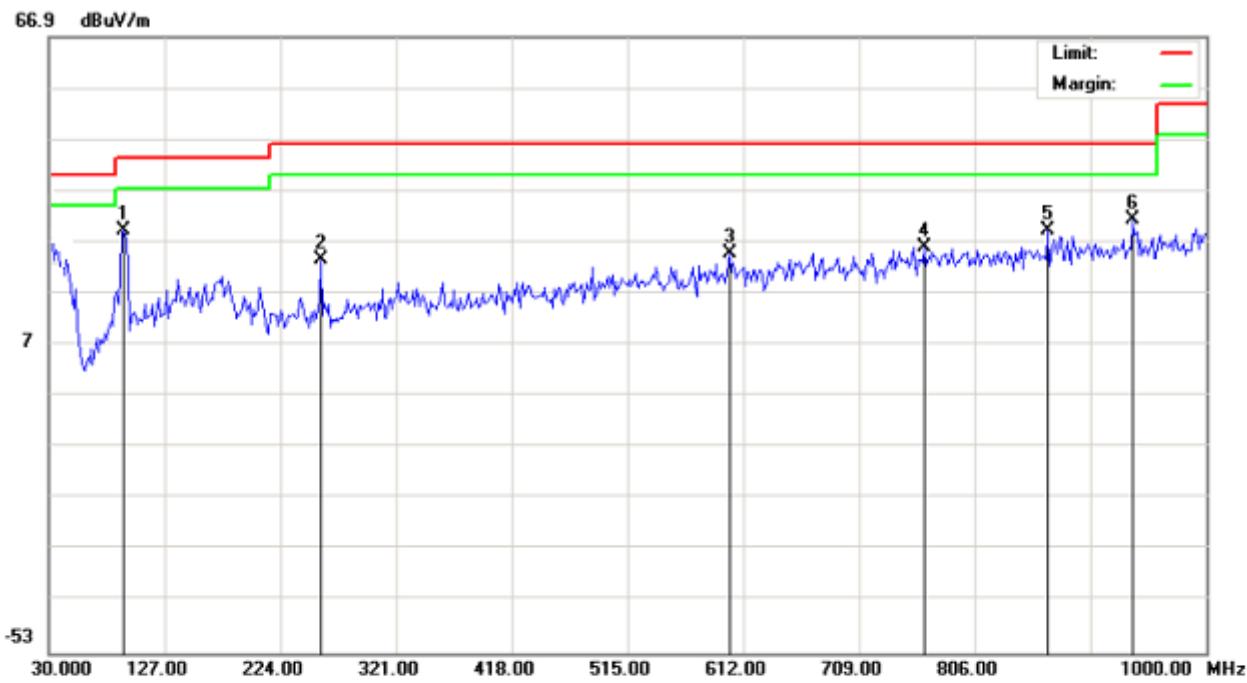
M/N:

Mode: GM606

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		94.6667	6.95	13.91	20.86	43.50	-22.64	peak			
2		159.3333	-0.92	20.11	19.19	43.50	-24.31	peak			
3		354.9500	2.89	19.03	21.92	46.00	-24.08	peak			
4		584.5167	-0.79	24.73	23.94	46.00	-22.06	peak			
5		731.6333	-0.59	26.43	25.84	46.00	-20.16	peak			
6	*	860.9667	-1.73	29.16	27.43	46.00	-18.57	peak			

**Note: This Handheld EUT was tested in 3 orthogonal positions and the worst-case data was presented.**



Site: site #1

Polarization: **Vertical**

Temperature: 26

Limit: FCC Class B 3M Radiation

Power: AC 110V/60Hz

Humidity: 60 %

## EUT: MOBILE PHONE

Distance: 3m

M/N:

Mode: GM606

Note:-

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	93.0500	15.78	13.36	29.14	43.50	-14.36	peak			
2		257.9500	6.34	17.22	23.56	46.00	-22.44	peak			
3		600.6833	-0.04	24.92	24.88	46.00	-21.12	peak			
4		763.9666	-1.92	27.84	25.92	46.00	-20.08	peak			
5		867.4333	0.02	29.19	29.21	46.00	-16.79	peak			
6		938.5667	1.20	30.25	31.45	46.00	-14.55	peak			

**Note: This Handheld EUT was tested in 3 orthogonal positions and the worst-case data was presented.**

## Band Edge Emission:

### MEASUREMENT PROCEDURE

1. Set the EUT Work on the top, the bottom operation frequency individually.
2. Set SPA Centre Frequency = Operation Frequency, span=100MHz, RBW= 1 MHz, VBW= 1MHz.
3. The band edges was measured and receorded.

### TEST SET-UP

The Same as described in section 6.2

Radiated Emission test Setup Above 1GHz

Band Edge Emission for Bottom Channel						
Frequency	Antenna Pol.	Field Strength	Field Strength	Limit (PK)	Limit (AV)	Memo
GHz	H/V	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	
2.386	H	60.31	48.23	74	54	*
2.400	H	57.69	46.91	74	54	*
2.386	V	58.91	44.38	74	54	*
2.400	V	57.23	43.29	74	54	*

Band Edge Emission for Top Channel						
Frequency	Antenna Pol.	Field Strength	Field Strength	Limit (PK)	Limit (AV)	Memo
GHz	H/V	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	
2.483	H	59.47	47.51	74	54	*
2.484	H	56.78	48.47	74	54	*
2.496	H	53.36	44.01	74	54	*
2.483	V	58.52	46.73	74	54	*
2.484	V	55.49	46.28	74	54	*
2.496	V	52.07	45.36	74	54	*

**Note: This Handheld EUT was tested in 3 orthogonal positions and the worst-case data was presented.**

## MEASUREMENT PROCEDURE

1. Set the EUT Work on the top, the middle, the bottom operation frequency individually.
2. Set SPA Centre Frequency = Operation Frequency, RBW= 1MHz,  
VBW= 1MHz.
3. The Restricted Band Emission was measured and recorded.

## TEST SET-UP

The Same as described in section 6.2  
Radiated Emission test Setup Above 1GHz

Restricted Band Emission for Bottom Channel						
Frequency	Antenna Pol.	Field Strength	Field Strength	Limit (PK)	Limit (AV)	Memo
GHz	H/V	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	
4.81	H	52.91	48.37	74	54	*
4.81	V	55.93	45.31	74	54	*
Above 4.81 GHz	H	--	--	74	54	*
	V	--	--	74	54	*

Restricted Band Emission for Middle Channel						
Frequency	Antenna Pol.	Field Strength	Field Strength	Limit (PK)	Limit (AV)	Memo
GHz	H/V	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	
4.88	H	54.78	48.24	74	54	*
4.88	V	57.15	47.10	74	54	*
Above 4.88 GHz	H	--	--	74	54	*
	V	--	--	74	54	*

Restricted Band Emission for Top Channel						
Frequency	Antenna Pol.	Field Strength	Field Strength	Limit (PK)	Limit (AV)	Memo
GHz	H/V	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	
4.95	H	56.22	47.68	74	54	*
4.95	V	55.83	46.75	74	54	*
Above 4.95GHz	H	--	--	74	54	*
	V	--	--	74	54	*

**Note: This Handheld EUT was tested in 3 orthogonal positions and the worst-case data was presented.**

--" Indicated the test value is much lower to limit.

## 10. NUMBER OF HOPPING FREQUENCY

### 10.1 MEASUREMENT PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer Start = 2.4GHz Stop = 2.4835GHz, span=20MHz
4. Set the Spectrum Analyzer as RBW = VBW = 510KHz

### 10.2 TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

1. Conducted Method.

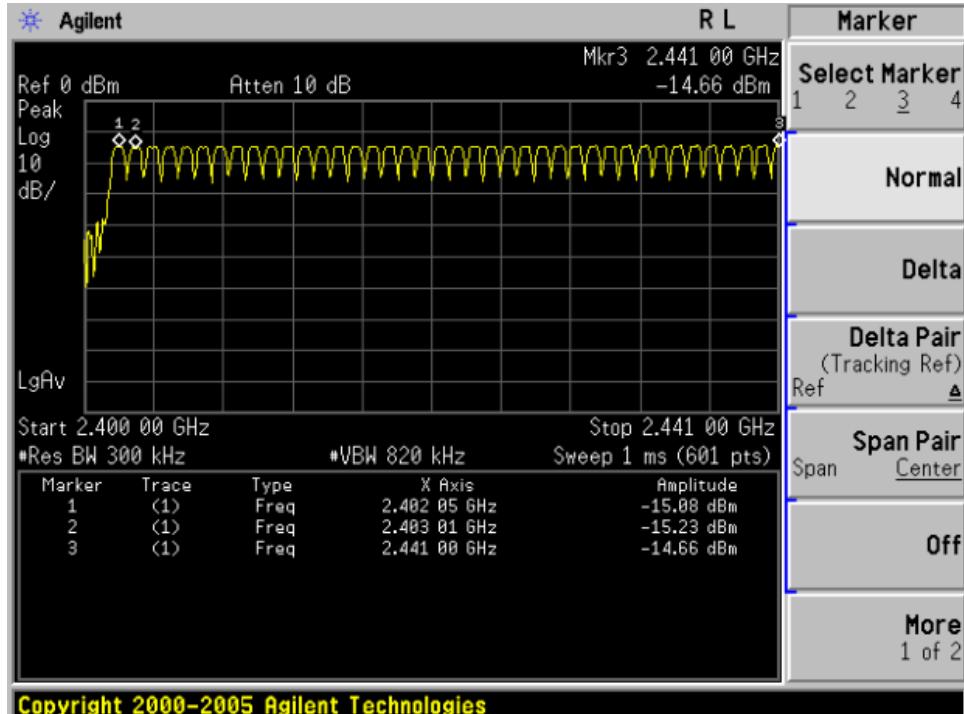
### 10.3 MEASUREMENT EQUIPMENT USED

The Same as described in section 6.3

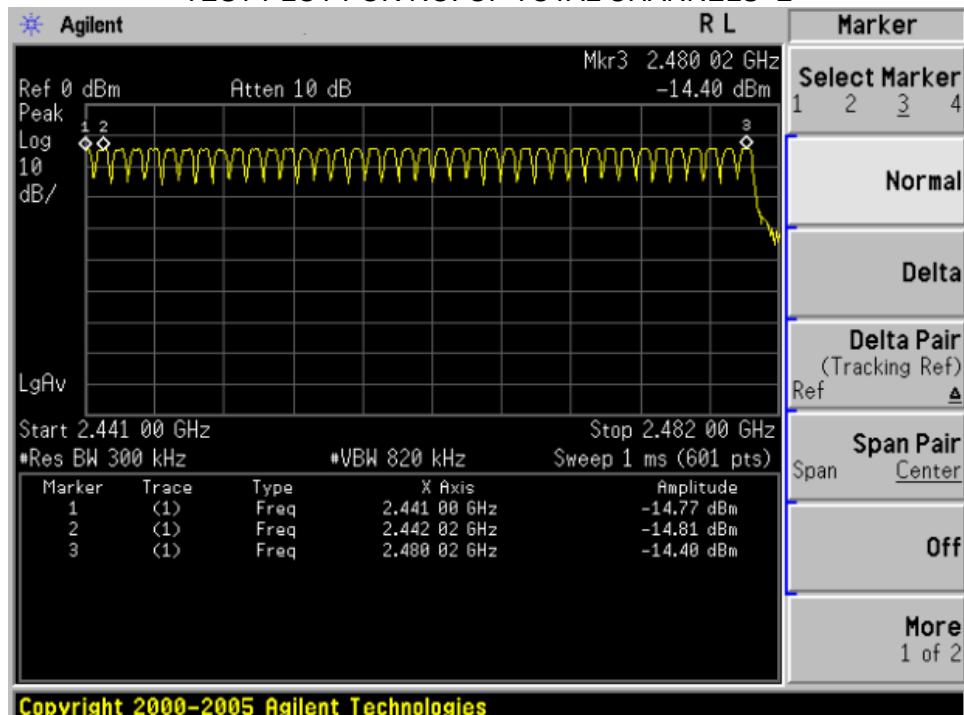
### 10.4 LIMITS AND MEASUREMENT RESULT:

TOTAL NO. OF HOPPING CHANNEL	LIMIT (NO. OF CH)	MEASUREMENT (NO. OF CH)	RESULT
	>=15	79	PASS

TEST PLOT FOR NO. OF TOTAL CHANNELS -1



TEST PLOT FOR NO. OF TOTAL CHANNELS -2



## 11. TIME OF OCCUPANCY (DWELL TIME)

### 11.1 MEASUREMENT PROCEDURE

1. Place the EUT on the table and set it in transmitting mode
2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer
3. Set center frequency of spectrum analyzer = Operating frequency
4. Set the spectrum analyzer as RBW, VBW=1MHz, Span = 0 Hz,

### 11.2 TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2  
Conducted Method

### 11.3 MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

### 11.4 LIMITS AND MEASUREMENT RESULT

The dwell time = Time Slot Length \* Hop Rate / Number of Hopping Channels \* 0.4 \* 79

L-CH:

DH1 Time Slot = 0.373 (ms) \* (1600/(2\*79))\*31.6 = 119.46 (ms)

DH3 Time Slot = 1.627(ms) \* (1600/(4\*79))\*31.6 = 260.32 (ms)

DH5 Time Slot = 2.860 (ms) \* (1600/(6\*79))\*31.6 = 305.07 (ms)

M-CH:

DH1 Time Slot = 0.373 (ms) \* (1600/(2\*79))\*31.6 = 119.46 (ms)

DH3 Time Slot = 1.627 (ms) \* (1600/(4\*79))\*31.6 = 260.32 (ms)

DH5 Time Slot = 2.880 (ms) \* (1600/(6\*79))\*31.6 = 307.20 (ms)

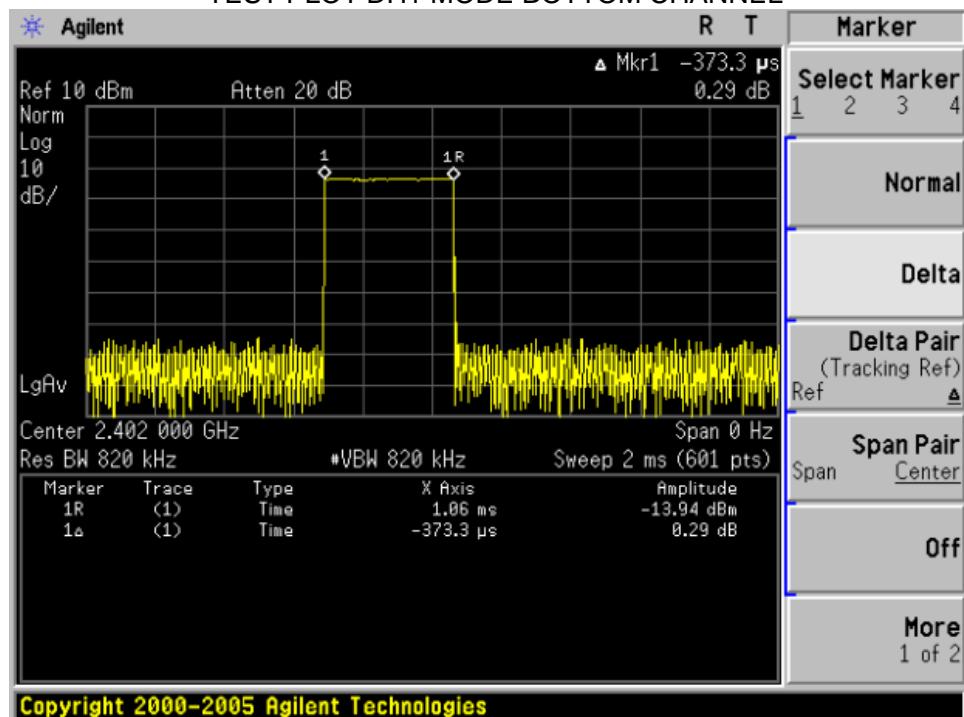
H-CH:

DH1 Time Slot = 0.370(ms) \* (1600/(2\*79))\*31.6 = 118.40 (ms)

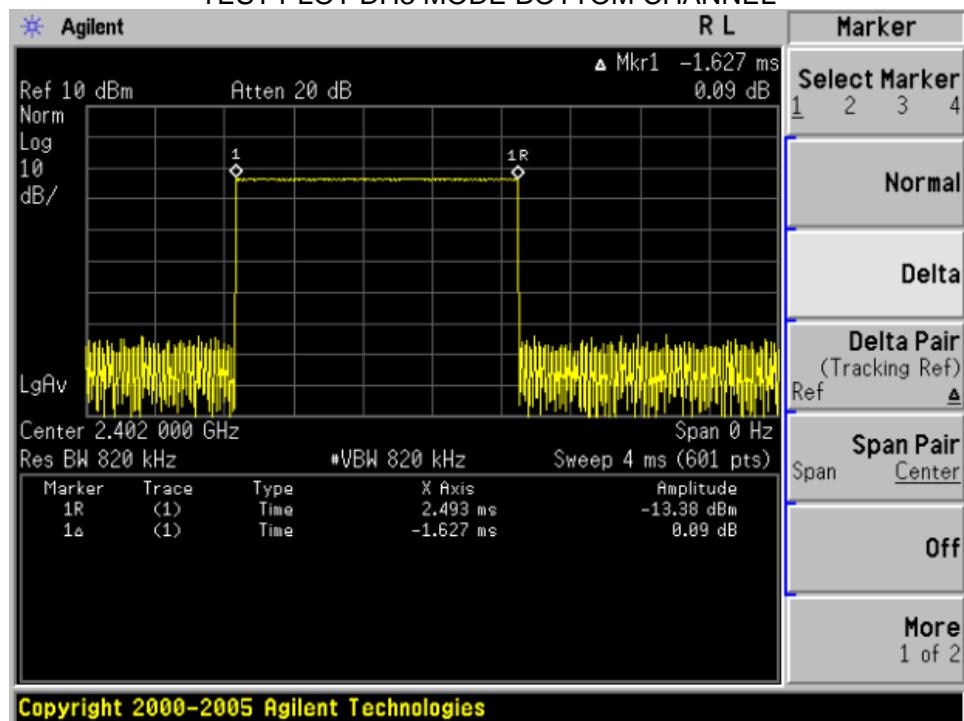
DH3 Time Slot = 1.620 (ms) \* (1600/(4\*79))\*31.6 = 259.20 (ms)

DH5 Time Slot = 2.880(ms) \* (1600/(6\*79))\*31.6 = 307.20(ms)

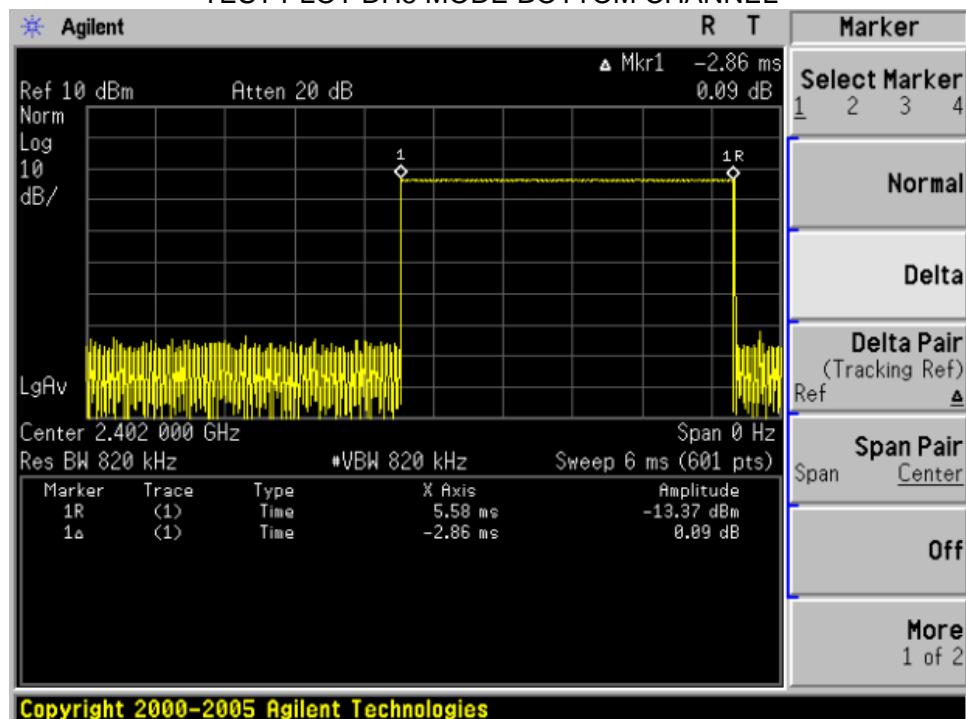
TEST PLOT DH1 MODE BOTTOM CHANNEL



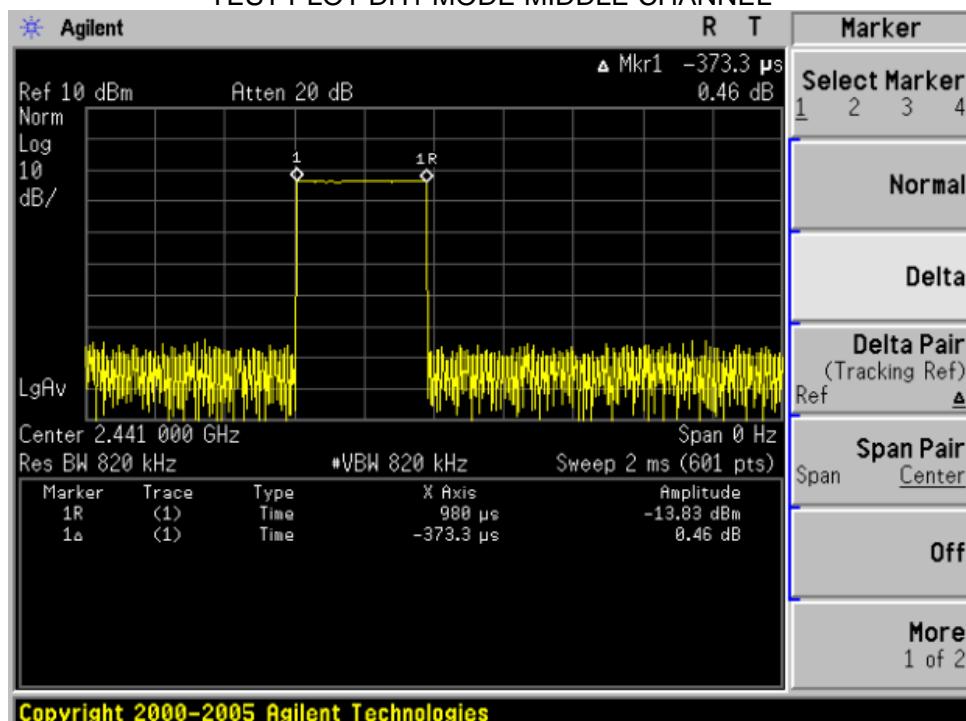
TEST PLOT DH3 MODE BOTTOM CHANNEL



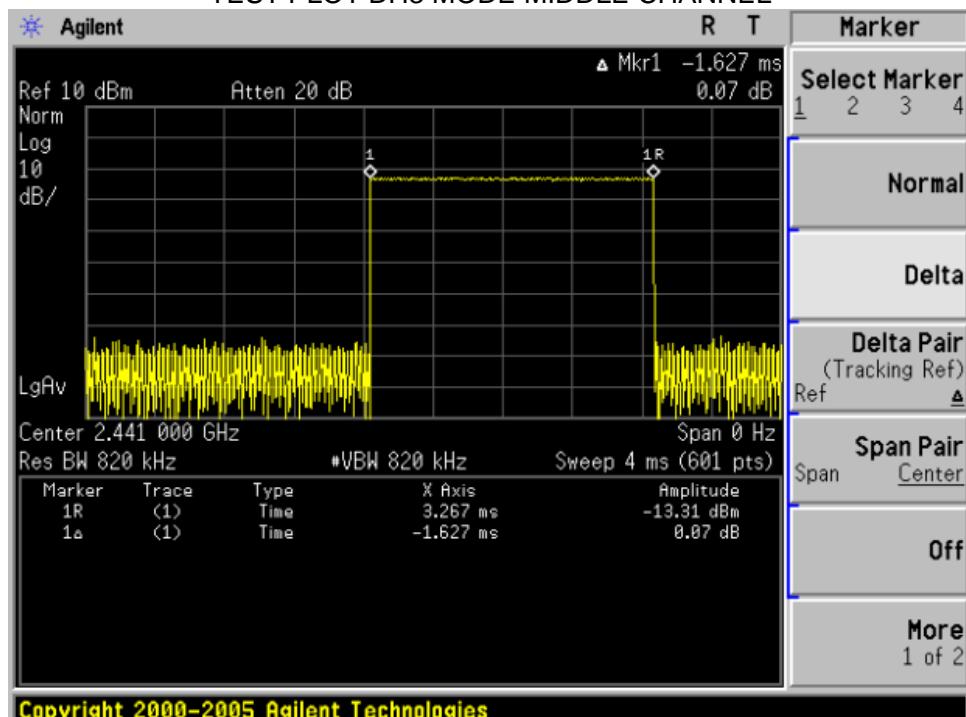
TEST PLOT DH5 MODE BOTTOM CHANNEL



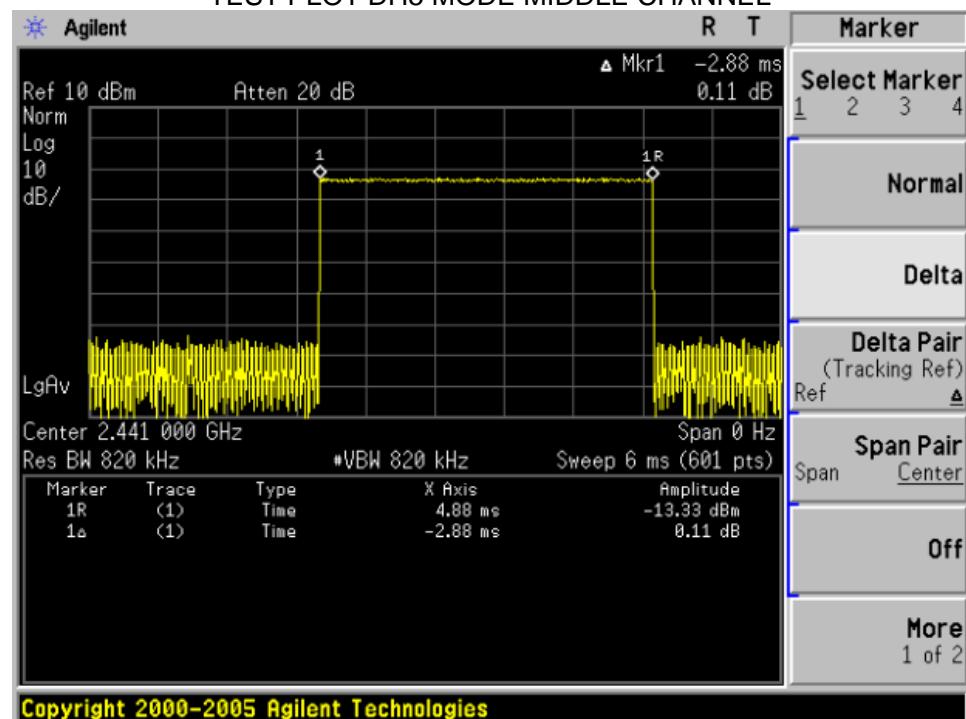
TEST PLOT DH1 MODE MIDDLE CHANNEL



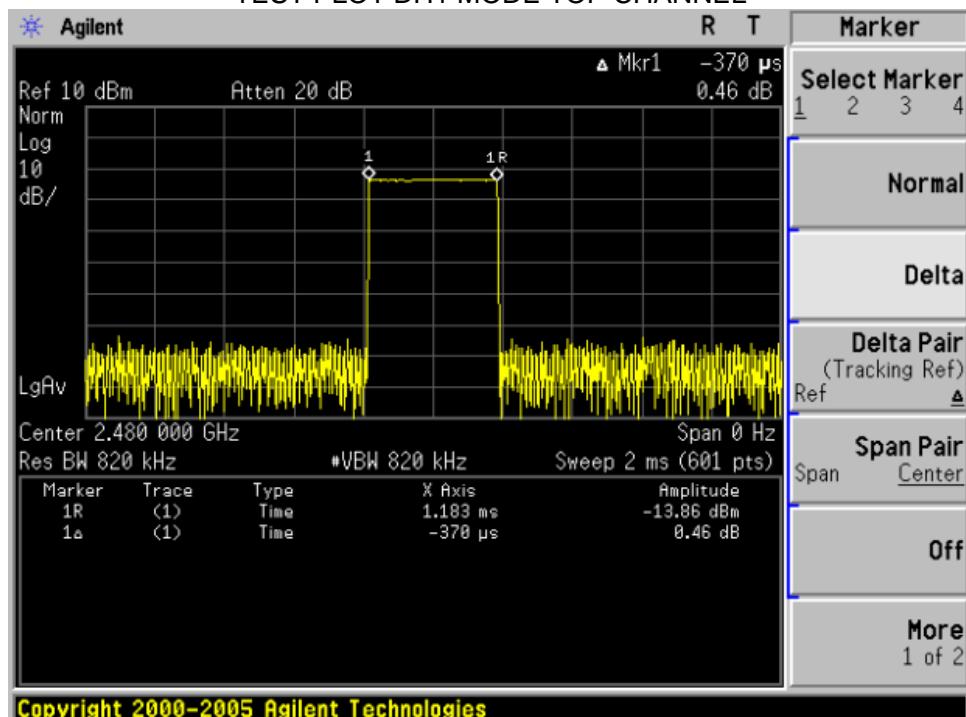
TEST PLOT DH3 MODE MIDDLE CHANNEL



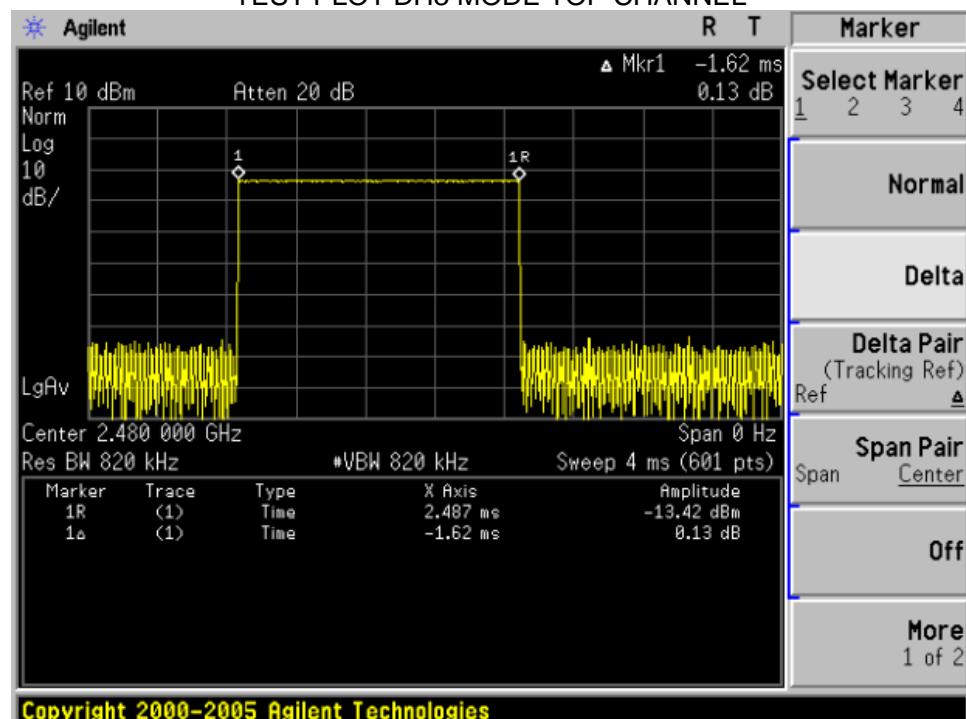
TEST PLOT DH5 MODE MIDDLE CHANNEL



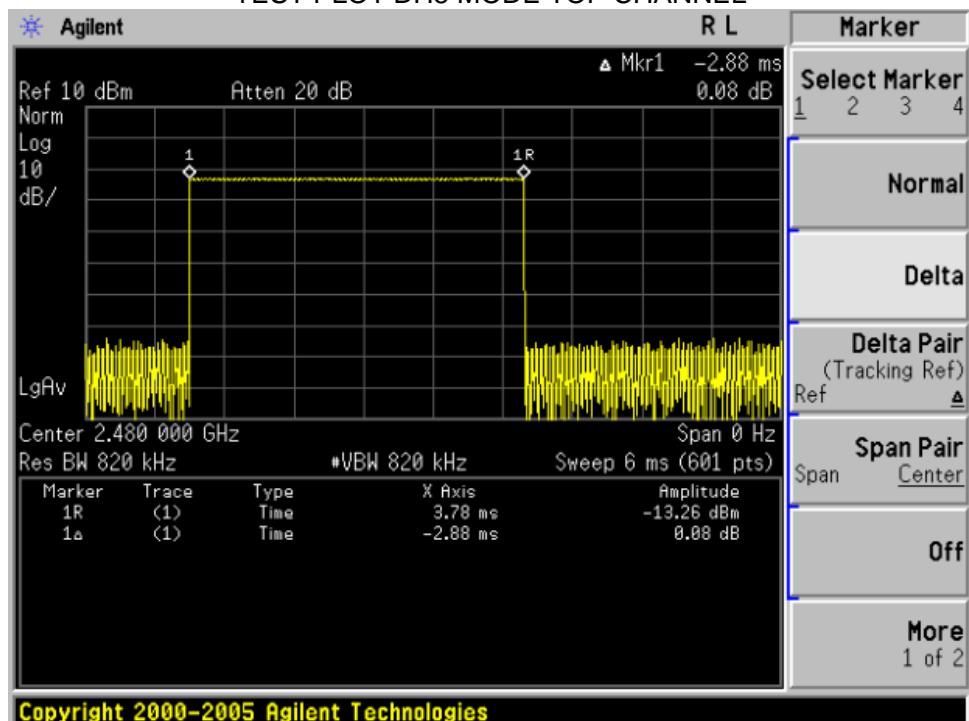
TEST PLOT DH1 MODE TOP CHANNEL



TEST PLOT DH3 MODE TOP CHANNEL



TEST PLOT DH5 MODE TOP CHANNEL



## 12. FREQUENCY SEPARATION

### 12.1 MEASUREMENT PROCEDURE

1. Place the EUT on the table and set it in transmitting mode
2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer
3. Set center frequency of spectrum analyzer = Middle of Operating frequency
4. Set the spectrum analyzer as RBW, VBW=100KHz, Span = 5 MHz,

### 12.2 TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

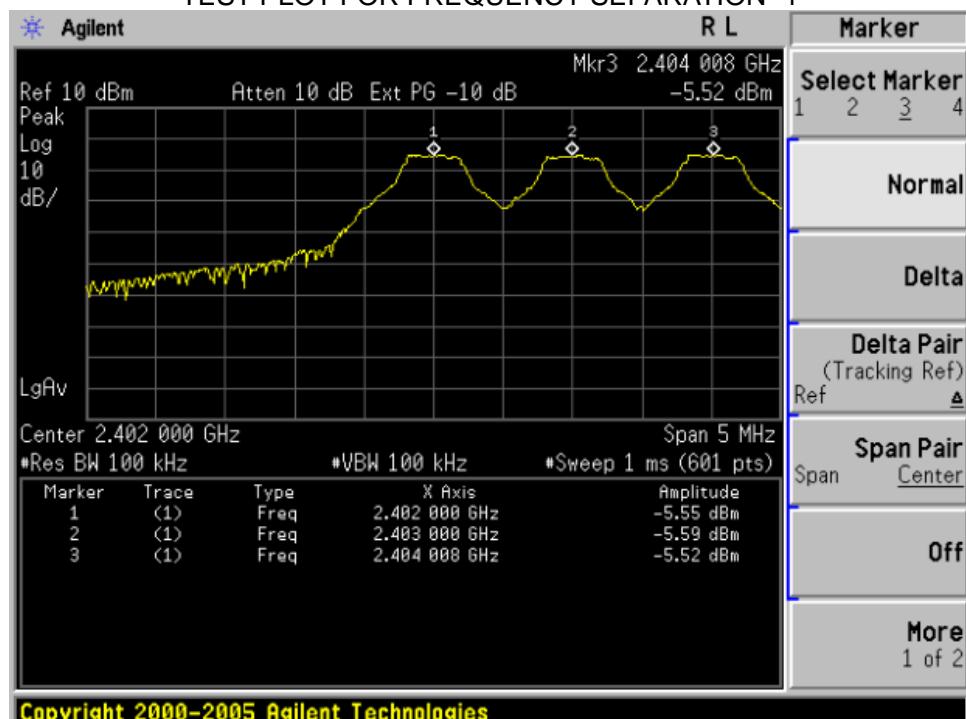
### 12.3 MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

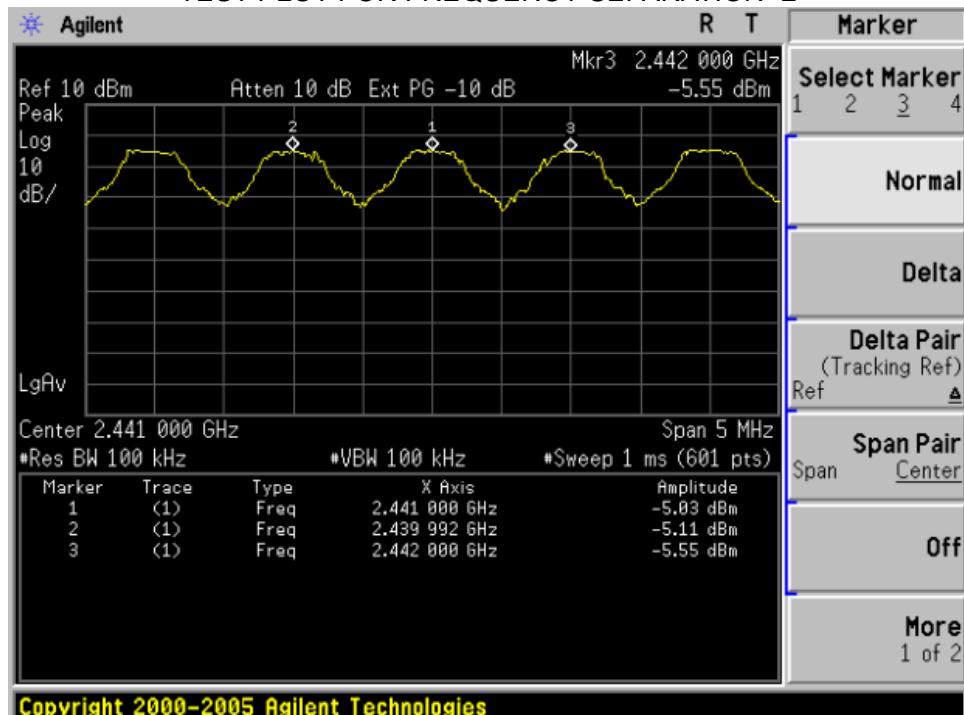
### 12.4 LIMITS AND MEASUREMENT RESULT

CHANNEL	CHANNEL SEPARATION	LIMIT	RESULT
	KHz	KHz	
CH01-CH02	1000	>=25 KHz or 2/3 20 dB BW	Pass
CH39-CH40	1000		
CH78-CH79	1008		

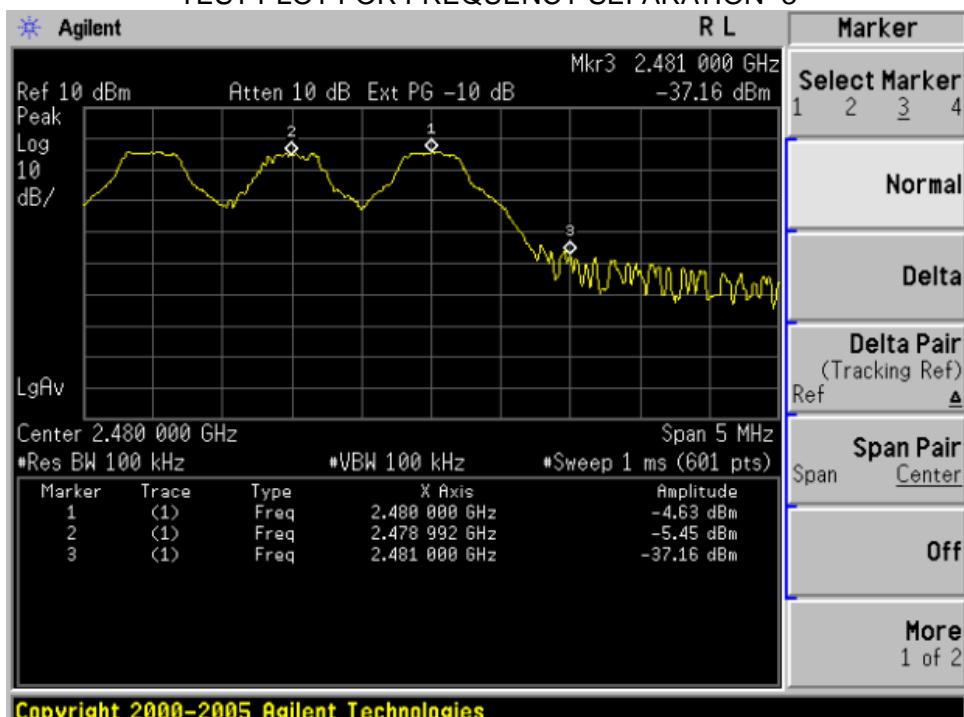
TEST PLOT FOR FREQUENCY SEPARATION -1



TEST PLOT FOR FREQUENCY SEPARATION -2



TEST PLOT FOR FREQUENCY SEPARATION -3



**APPENDIX I**  
**PHOTOGRAPHS OF THE EUT**  
**TOP VIEW OF SAMPLE**



BOTTOM VIEW OF SAMPLE



LEFT VIEW OF SAMPLE



RIGHT VIEW OF SAMPLE



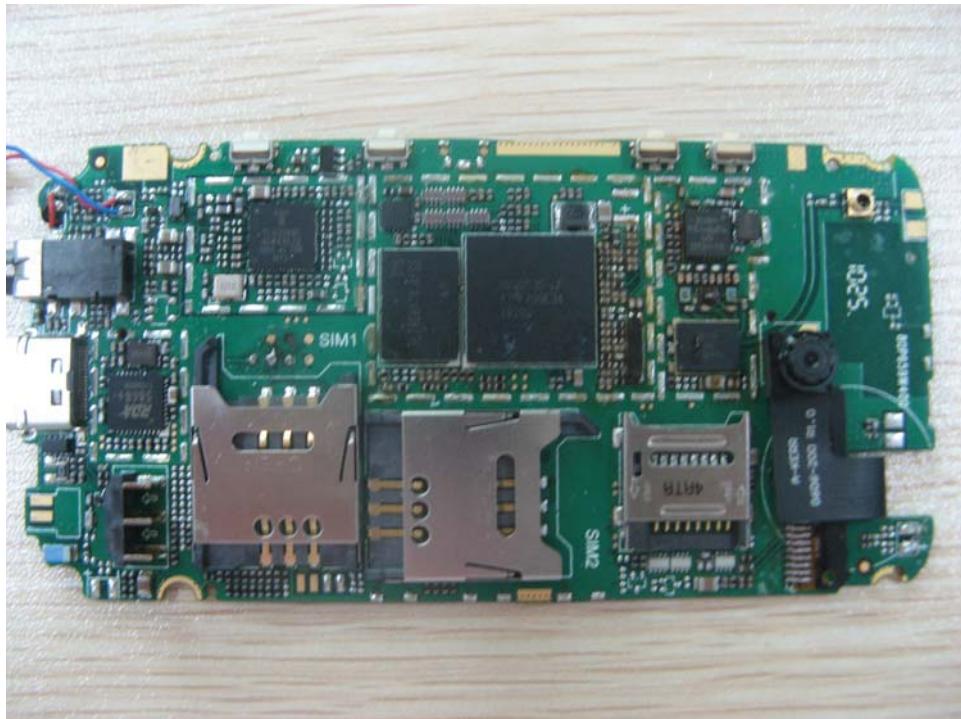
FRONT VIEW OF SAMPLE



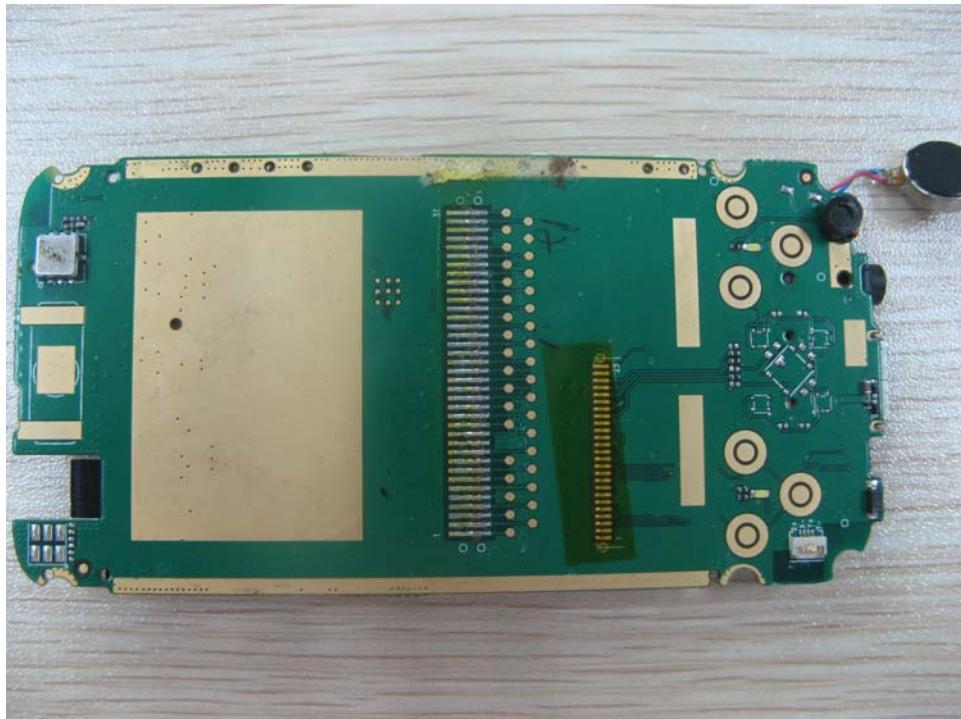
BACK VIEW OF SAMPLE



INTERNAL PHOTO OF SAMPLE – 1



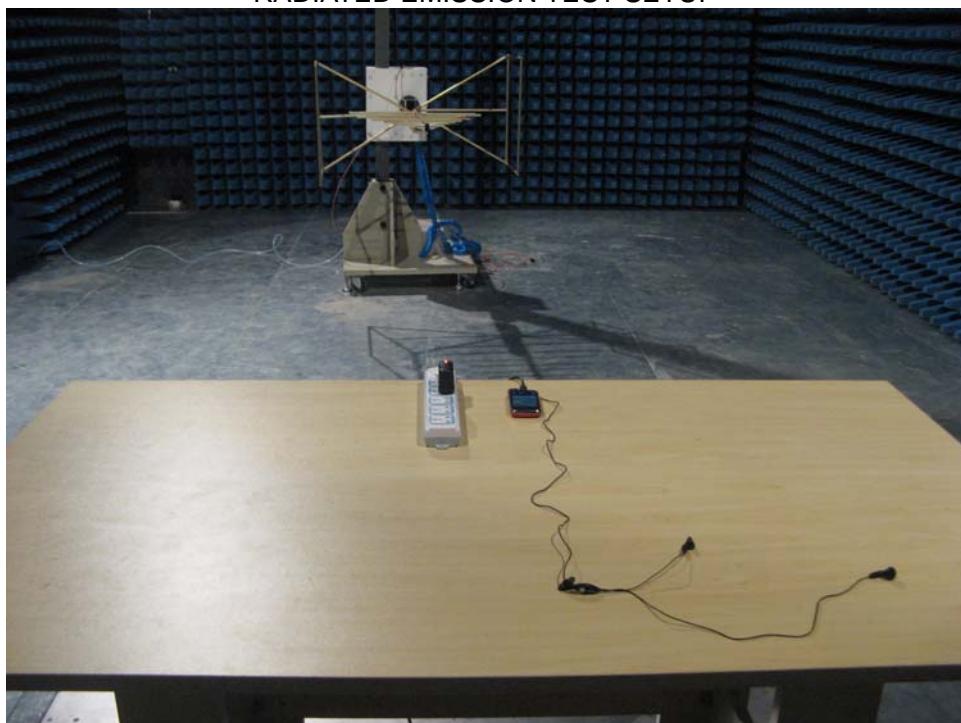
INTERNAL PHOTO OF SAMPLE – 2



**PPENDIX II**  
**PHOTOGRAPHS OF THE TEST SETUP**  
**CONDUCTED EMISSION TEST**



**RADIATED EMISSION TEST SETUP**



**----END OF REPORT----**