



Report No.: SZ12050002W02



# FCC TEST REPORT

*Issued to***Tecmobile (International) Ltd***For***Mobile Phone**

Model Name: TEC/R30  
Trade Name: N/A  
Brand Name: Tecmobile  
FCC ID : O4FR3035268605  
Standard: 47 CFR Part 22 Subpart H  
47 CFR Part 24 Subpart E  
Test date: 2012-5-8 to 2012-6-13  
Issue date: 2012-6-18

Shenzhen Morlab Communications Technology Co., Ltd.

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Date 2012.6.8Reviewed by Peng Huarui  
Peng Huarui  
Date 2012.6.18CTIA Authorized Test Lab  
LAB CODE 20081222-00

IEEE 1725      OTA

OFTA  
電訊管理局GCF  
Official Observer of  
Global Certification ForumBluetooth  
BQTFFCC  
Reg. No.  
741109

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Change History		
Issue	Date	Reason for change
1.0	Jun 18, 2012	First edition

## 1. GENERAL INFORMATION

### 1.1 EUT Description

EUT Type .....: Mobile Phone  
Serial No.....: (n.a, marked #1 by test site)  
Hardware Version .....: V0.7  
Software Version .....: A107V07\_tekmobile\_BT\_V06  
Applicant .....: Tecmobile (International) Ltd  
Manufacturer .....: Santok House Unit 2, Braintree Industrial Estate Braintree Road,  
South RuislipMiddlesex , HA4 0EJ, UK  
Frequency Range .....: GSM 850MHz:  
Tx: 824.20 - 848.80MHz (at intervals of 200kHz);  
Rx: 869.20 - 893.80MHz (at intervals of 200kHz)  
GSM 1900MHz:  
Tx: 1850.20 - 1909.80MHz (at intervals of 200kHz);  
Rx: 1930.20 - 1989.80MHz (at intervals of 200kHz)  
Modulation Type.....: GPRS/GSM Mode with GMSK Modulation  
Multislot Class.....: GPRS: Multislot Class12,EGPRS: Multislot Class12  
Antenna Type.....: PIFA Antenna  
Emission Designators .....: GSM:251KGXW,

*Note 1:* The transmitter (Tx) frequency arrangement of the Cellular 850MHz band used by the EUT can be represented with the formula  $F(n)=824.2+0.2*(n-128)$ ,  $128\leq n\leq 251$ ; the lowest, middle, highest channel numbers (ARFCHs) used and tested in this report are separately 128 (824.2MHz), 190 (836.6MHz) and 251 (848.8MHz).

*Note 2:* The transmitter (Tx) frequency arrangement of the PCS 1900MHz band used by the EUT can be represented with the formula  $F(n)=1850.2+0.2*(n-512)$ ,  $512\leq n\leq 810$ ; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 512 (1850.2MHz), 661 (1880.0MHz) and 810 (1909.8MHz).

*Note 3:* For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

*Note 4:* The product have a variety of models, model No. is TEC/R30AABC and "AABC" combination indicate following:



“AA” refer to color:	BK, WH, BL, PK, SL
“BB” refer to country:	EN, DE, NL, FR, TR, KL, SP, PL, UR, AR, RO, CS, RU, SK
“C” refer to Number:	2, 3, 4, 5,

They are all kinds of model name only the model name different and all same to hardware.

## 1.2 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 2, Part 22 and Part 24 for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 2 (10-1-09 Edition)	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22 (10-1-09 Edition)	Public Mobile Services
3	47 CFR Part 24 (10-1-09 Edition)	Personal Communications Services

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Result
1	2.1046	Conducted RF Output Power	PASS
2	2.1049	99% Occupied Bandwidth	PASS
3	2.1055 22.355 24.235	Frequency Stability	PASS
4	2.1051 2.1057 22.917 24.238	Conducted Out of Band Emissions	PASS
5	2.1051 2.1057 22.917 24.238	Band Edge	PASS
6	22.913 24.232	Transmitter Radiated Power (EIPR/ERP)	PASS
7	2.1053 2.1057 22.917 24.238	Radiated Out of Band Emissions	PASS

NOTE: Measurement method according to TIA/EIA 603.D-2010

## 1.3 Facilities and Accreditations

### 1.3.1 Facilities

Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L3572.

All measurement facilities used to collect the measurement data are located at 3/F, Electronic Testing Building, Shahe Road, Xili, Nanshan District, Shenzhen, 518055 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22; the FCC registration number is 741109.

### 1.3.2 Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106

## 2. 47 CFR PART 2, PART 22H & 24E REQUIREMENTS

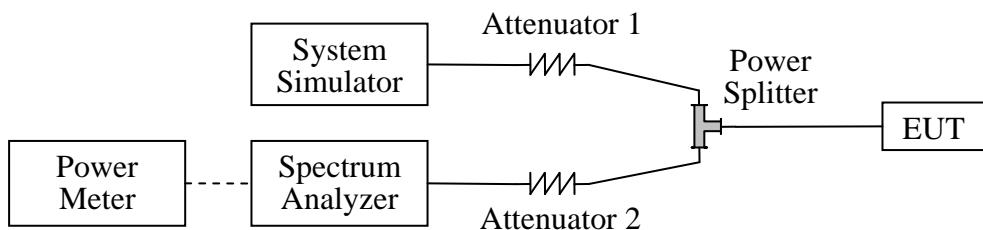
### 2.1 Conducted RF Output Power

#### 2.1.1 Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

#### 2.1.2 Test Description

##### 1. Test Setup:



The EUT, which is powered by the Battery, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.

The Power Meter was just used for the Conducted RF Output Power test of WCDMA Model.

##### 2. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date
System Simulator	Agilent	E5515C	GB43130131	2012.05
Spectrum Analyzer	Agilent	E7405A	US44210471	2012.05
Power Meter	Agilent	E4418B	GB43318055	2012.05
Power Splitter	Weinschel	1506A	NW521	(n.a.)
Attenuator 1	Resnet	20dB	(n.a.)	(n.a.)
Attenuator 2	Resnet	3dB	(n.a.)	(n.a.)

### 2.1.3 Test Results

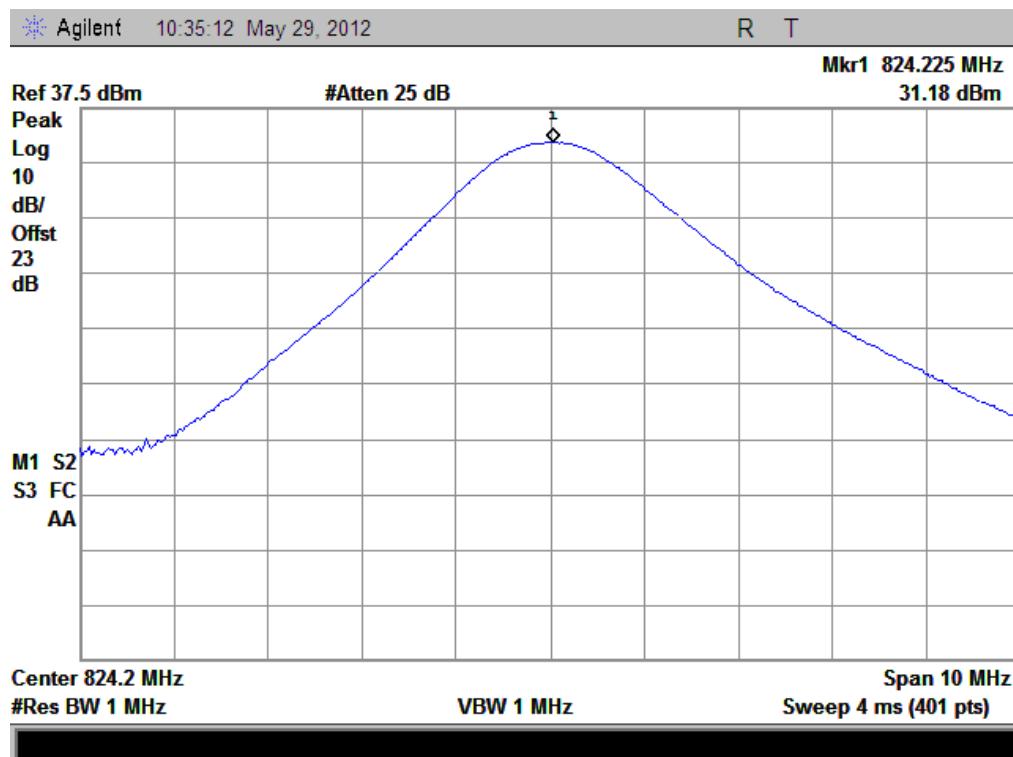
Here the lowest, middle and highest channels are selected to perform testing to verify the conducted RF output power of the EUT.

#### 1. GSM Model Test Verdict:

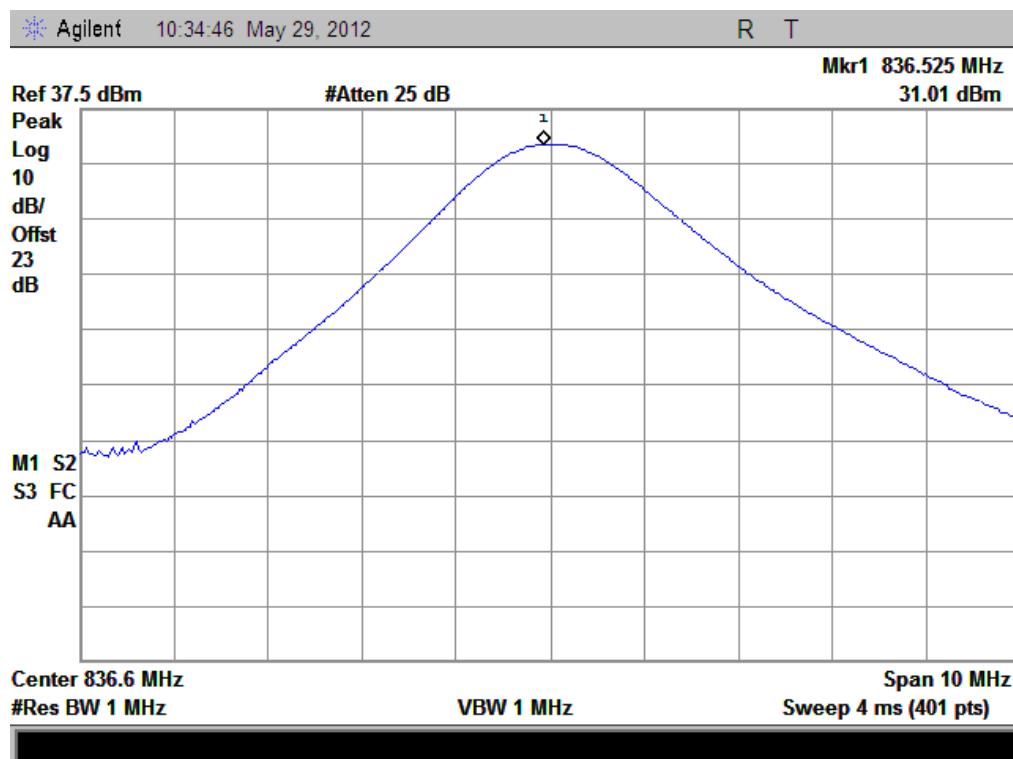
Band	Channel	Frequency (MHz)	Measured Output Power		Limit dBm	Verdict
			dBm	Refer to Plot		
GSM 850MHz	128	824.2	31.18	Plot A1 to A3	35	PASS
	190	836.6	31.01			PASS
	251	848.8	31.23			PASS
GSM 1900MHz	512	1850.2	28.64	Plot B1 to B3	32	PASS
	661	1880.0	28.95			PASS
	810	1909.8	28.67			PASS
GPRS 850MHz	128	824.2	30.53	Plot C1 to C3 <sup>Note 1</sup>	35	PASS
	190	836.6	30.47			PASS
	251	848.8	30.44			PASS
GPRS 1900MHz	512	1850.2	25.83	Plot D1 to D3 <sup>Note 1</sup>	32	PASS
	661	1880.0	25.51			PASS
	810	1909.8	25.58			PASS

Note 1: For the GPRS model, all the slots were tested and just the worst data was record in this report.

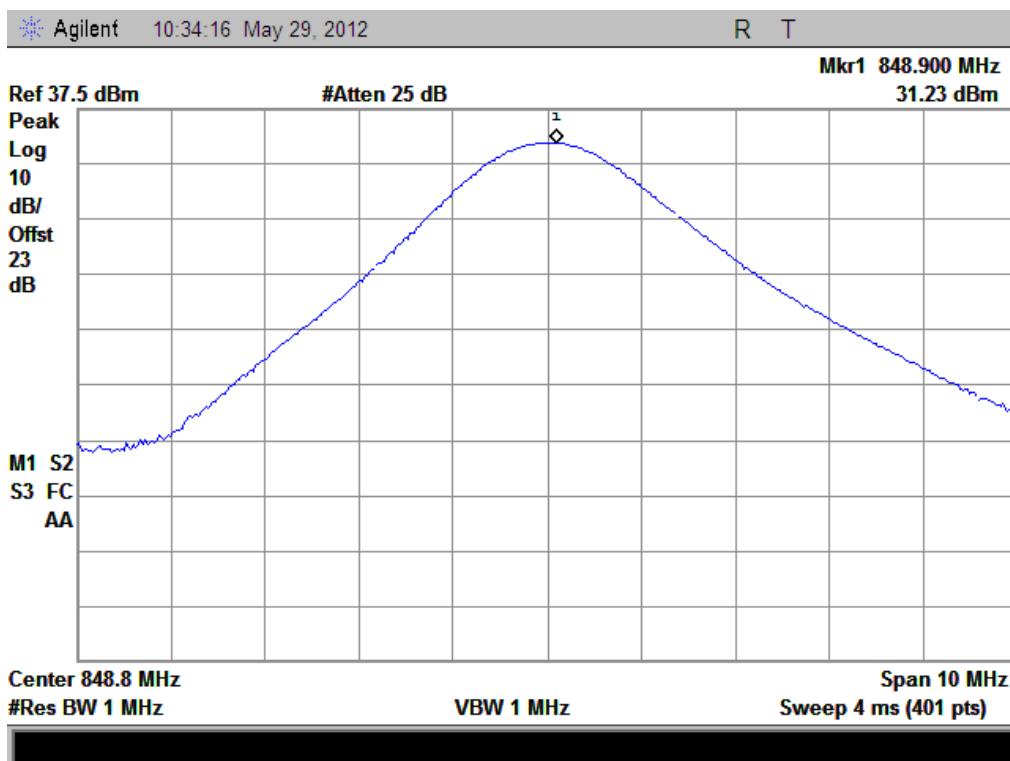
## 2. GSM Model Test Plots:



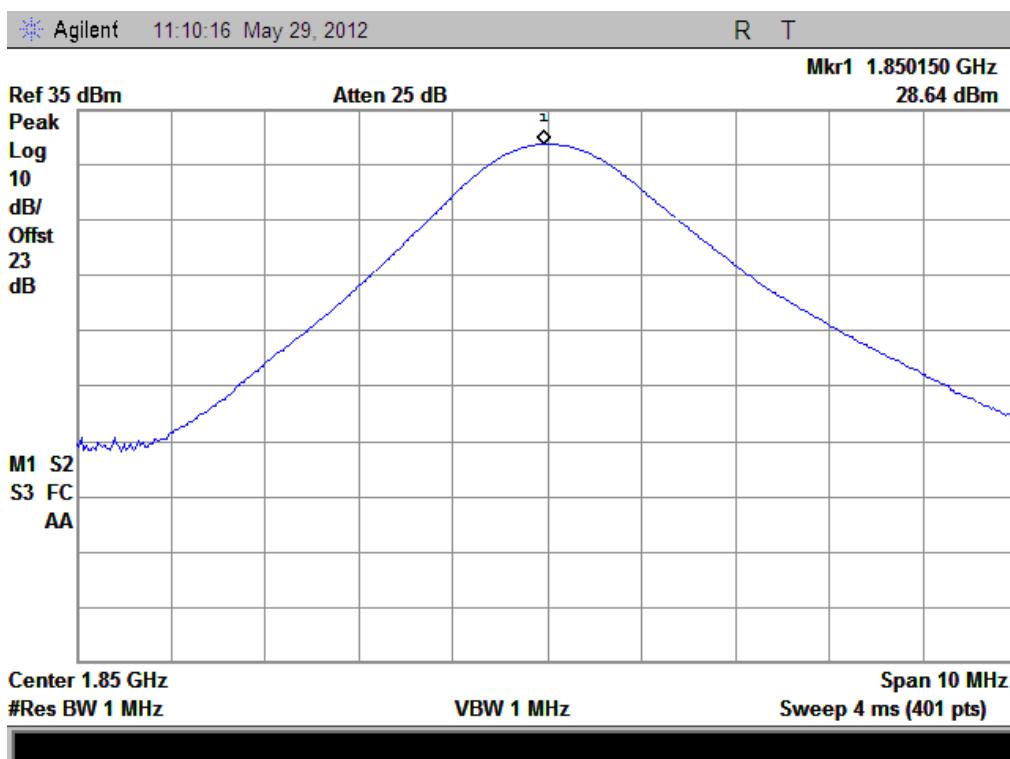
(Plot A1: GSM 850MHz Channel = 128)



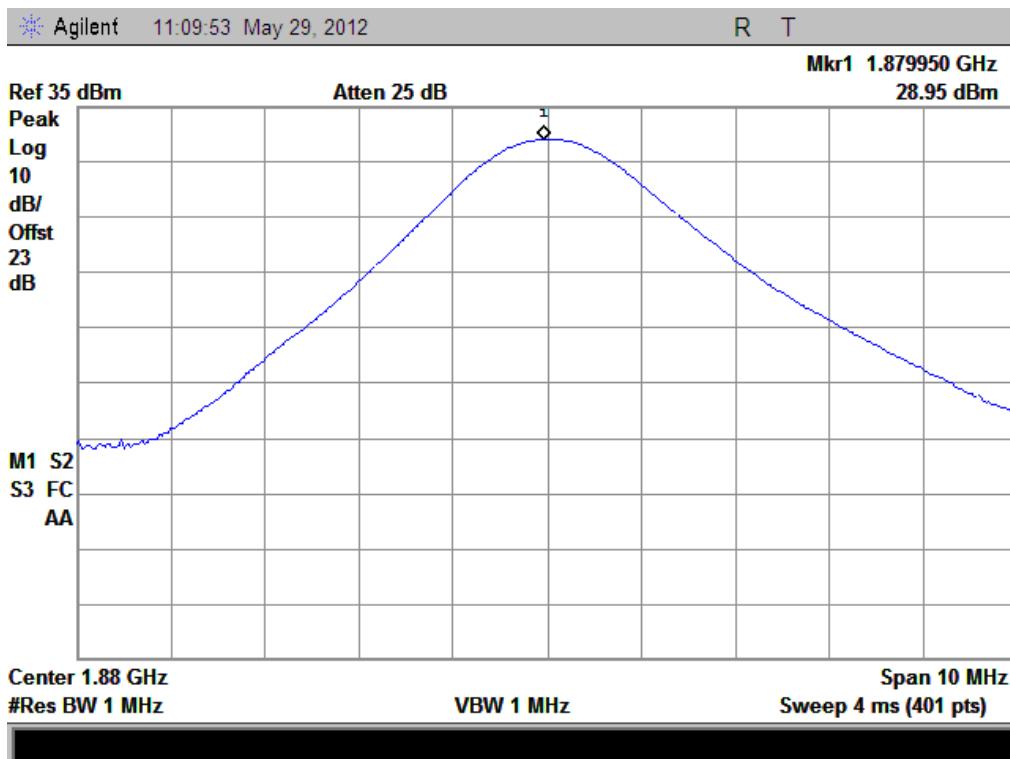
(Plot A2: GSM 850MHz Channel = 190)



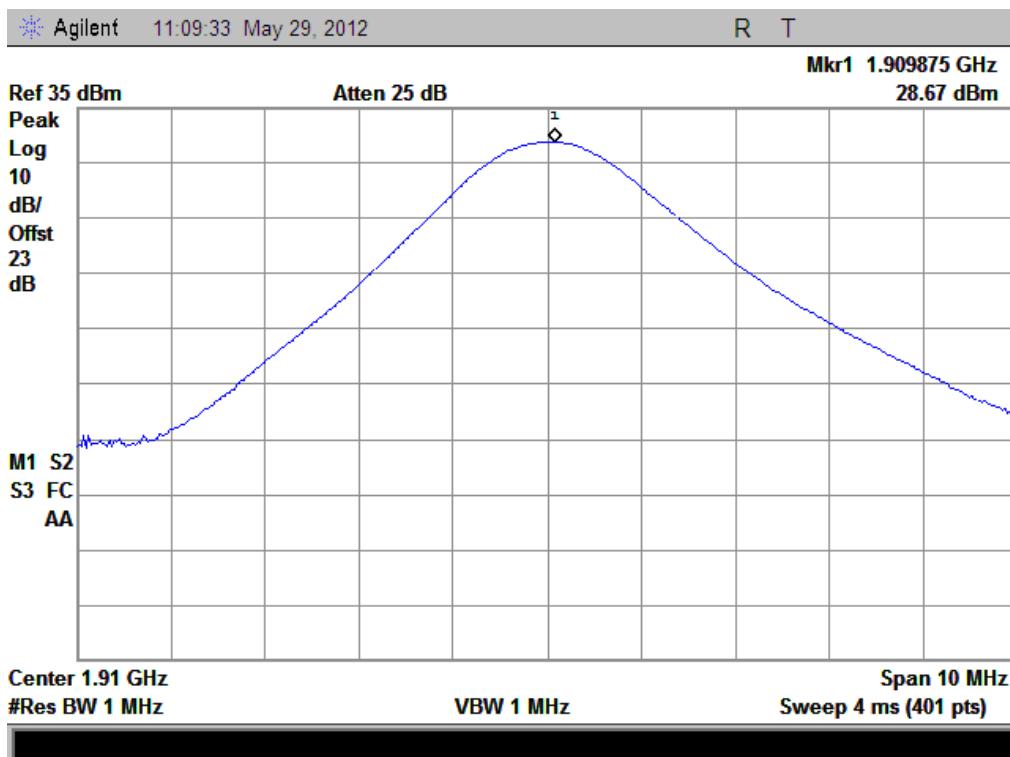
(Plot A3: GSM 850MHz Channel = 251)



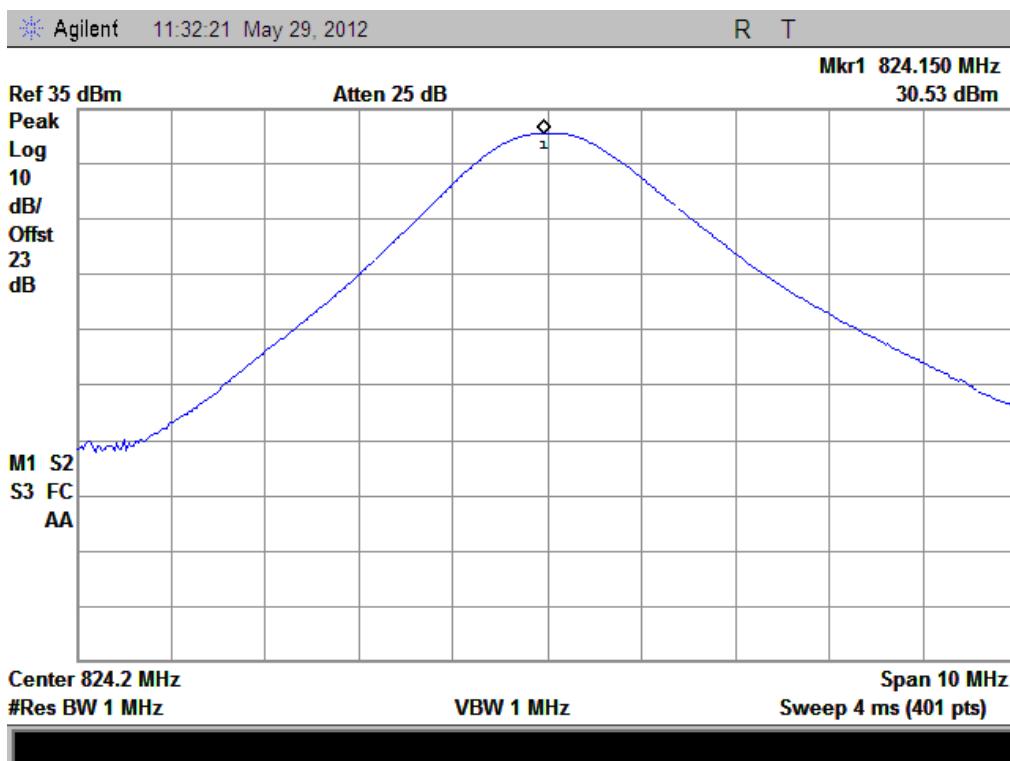
(Plot B1: GSM 1900MHz Channel = 512)



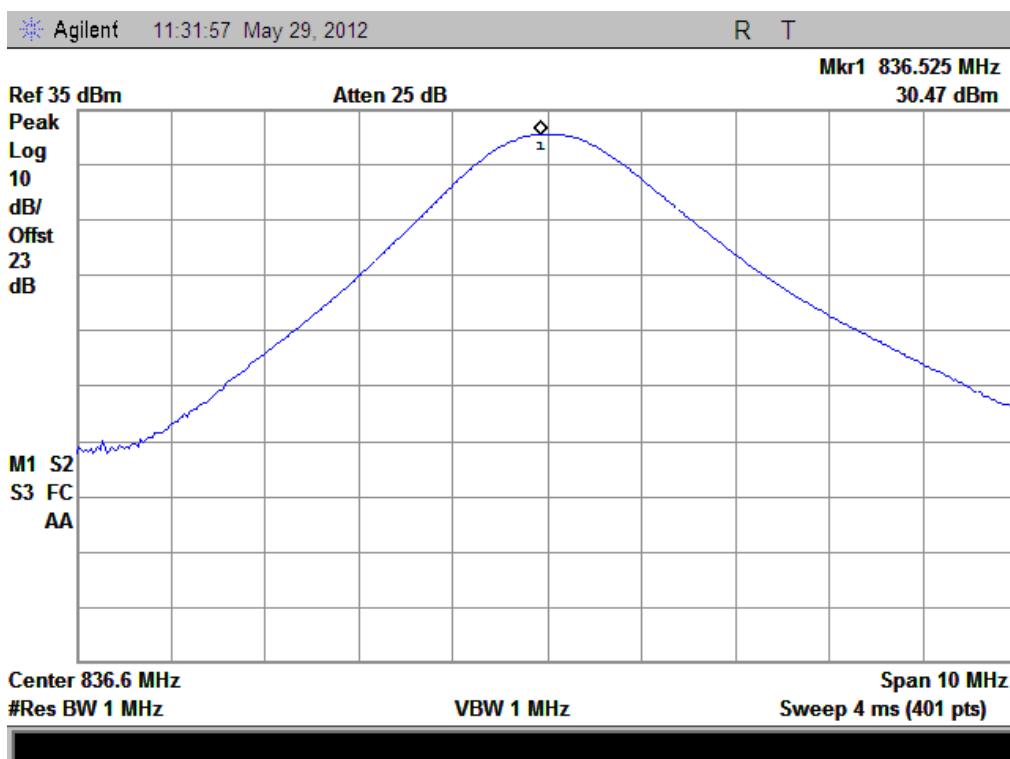
(Plot B2: GSM 1900MHz Channel = 661)



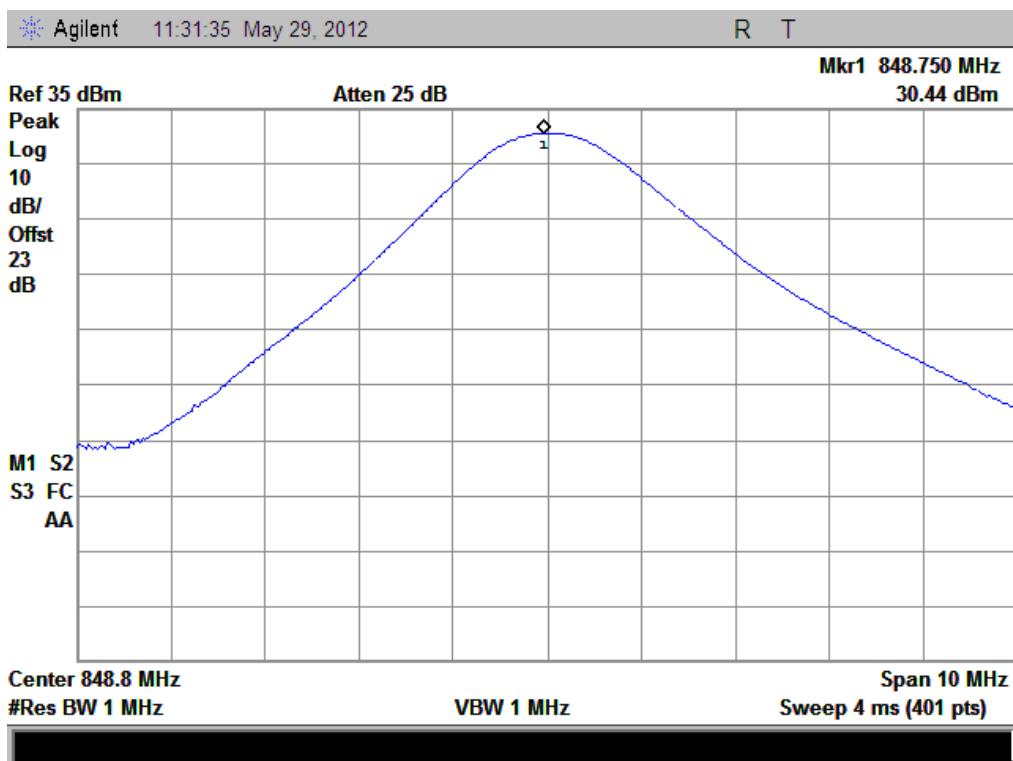
(Plot B3: GSM 1900MHz Channel = 810)



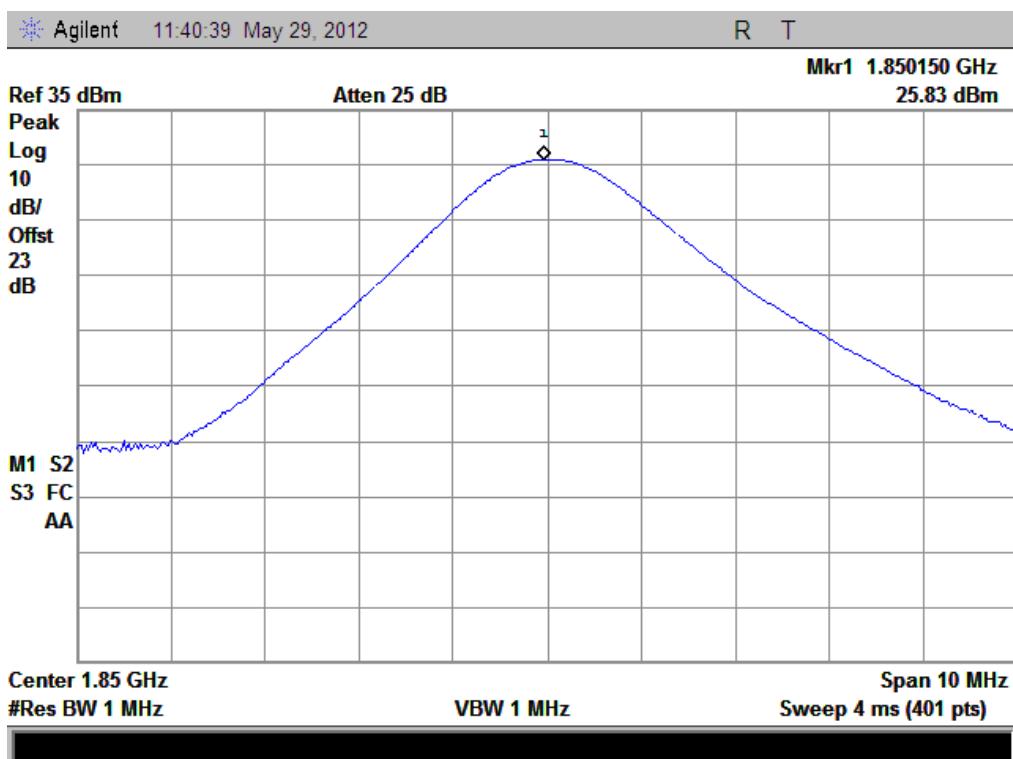
(Plot C1: GPRS 850MHz Channel = 128)



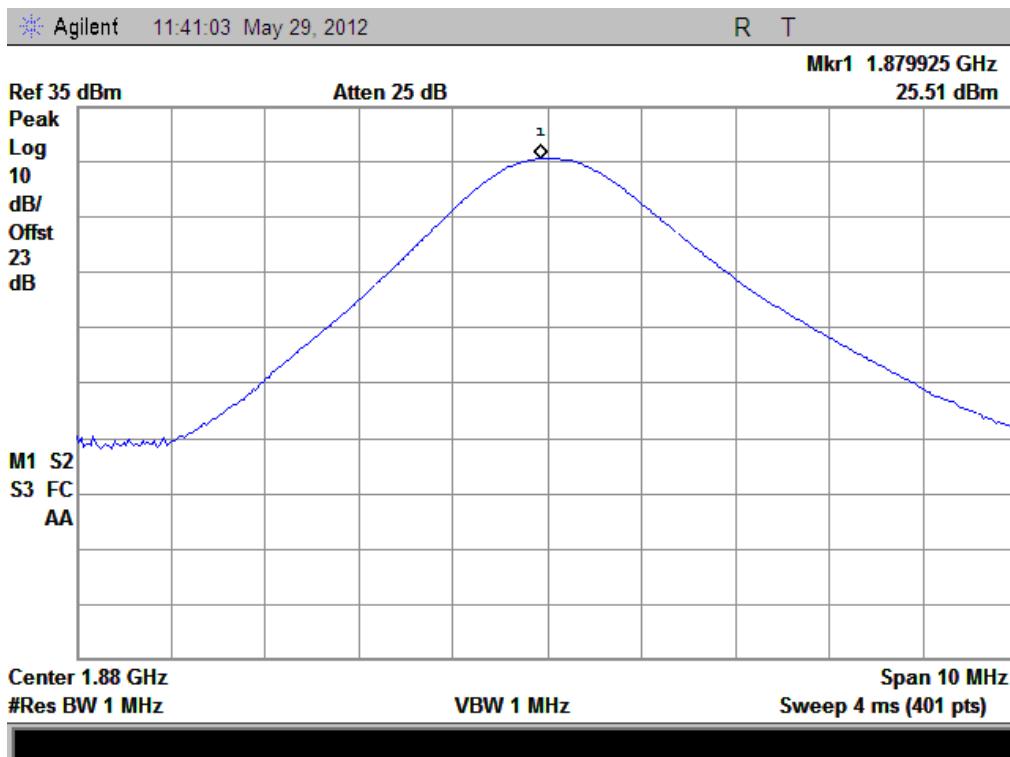
(Plot C2: GPRS 850MHz Channel = 190)



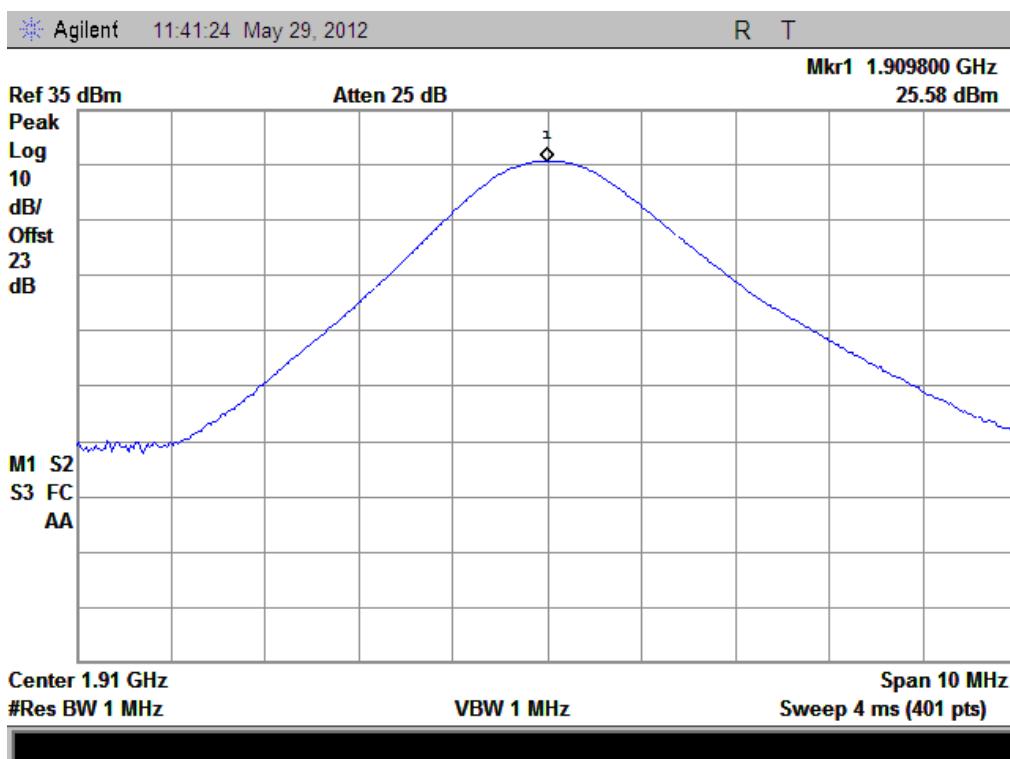
(Plot C3: GPRS 850MHz Channel = 251)



(Plot D1: GPRS 1900MHz Channel = 512)



(Plot D2: GPRS 1900MHz Channel = 661)



(Plot D3: GPRS 1900Hz Channel = 810)

## 2.2 99% Occupied Bandwidth

### 2.2.1 Definition

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Occupied bandwidth is also known as the 99% emission bandwidth,

### 2.2.2 Test Description

See section 2.1.2 of this report.

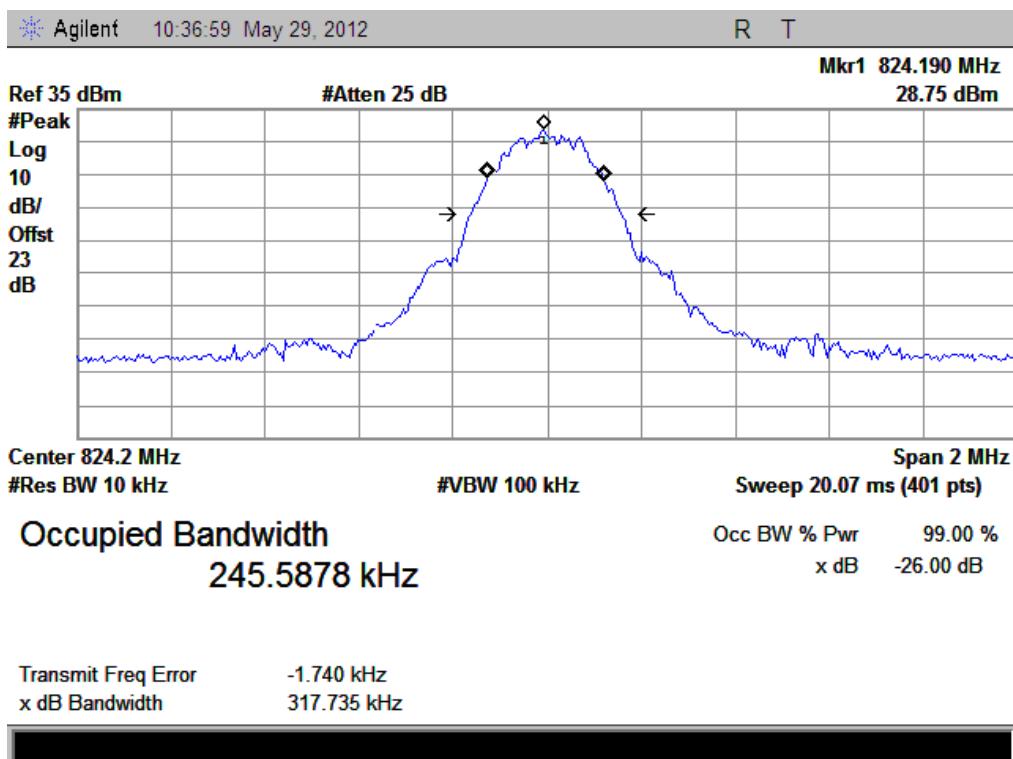
### 2.2.3 Test Verdict

Here the lowest, middle and highest channels are selected to perform testing to verify the 99% occupied bandwidth.

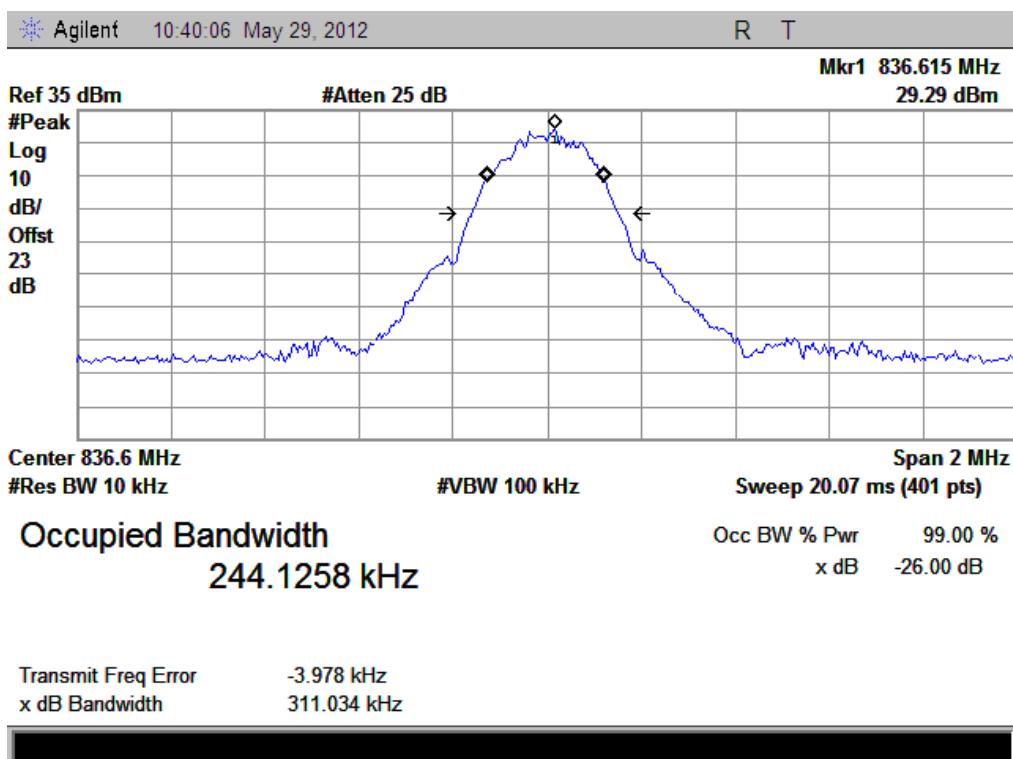
1. Test Verdict:

Band	Channel	Frequency (MHz)	99% Occupied Bandwidth	Refer to Plot
GSM 850MHz	128	824.2	245.5878	Plot A
	190	836.6	244.1258	Plot B
	251	848.8	250.5449	Plot C
GSM 1900MHz	512	1850.2	250.1702	Plot D
	661	1880.0	247.9285	Plot E
	810	1909.8	252.2111	Plot F

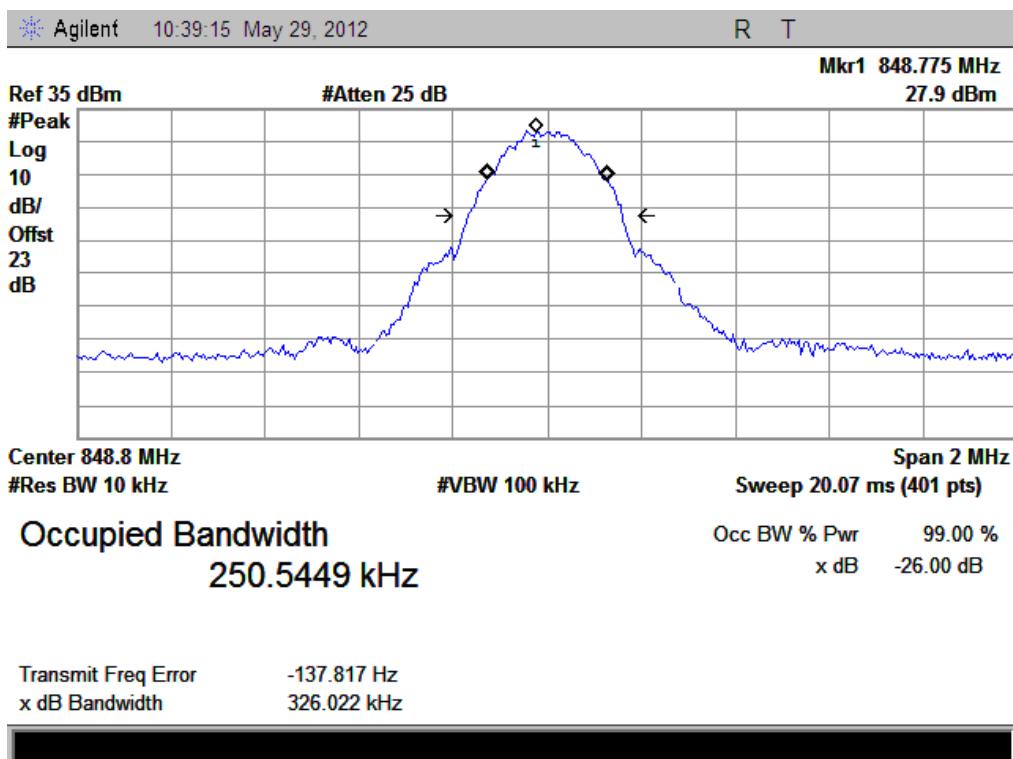
2. Test Plots:



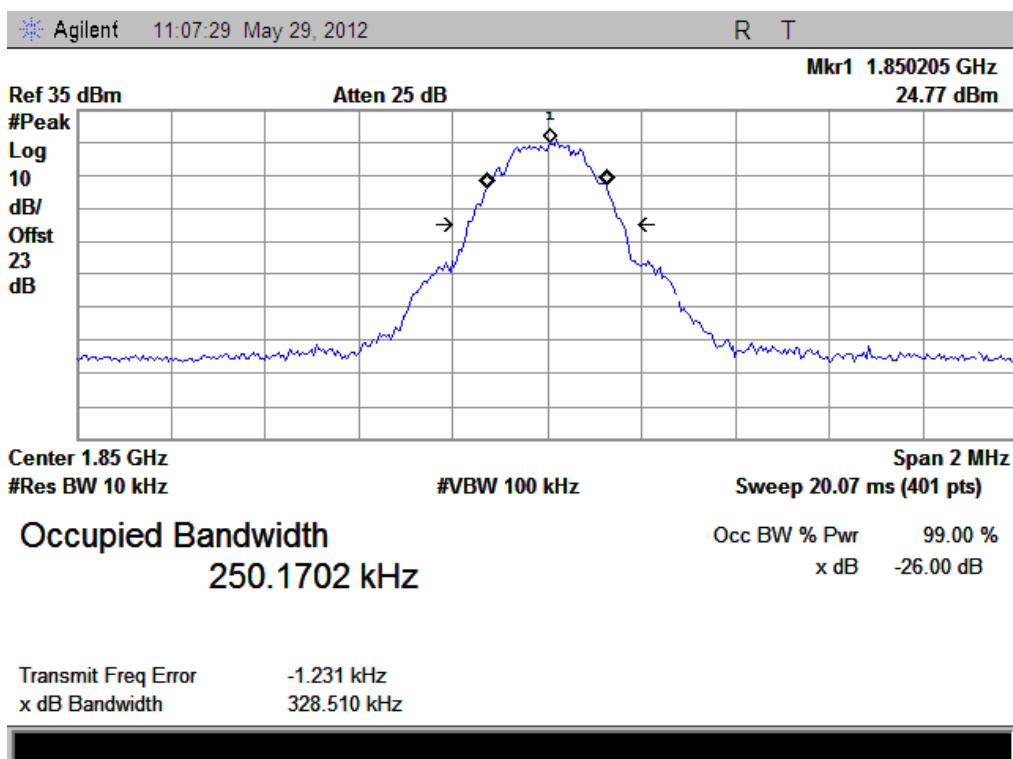
(Plot A: GSM 850MHz Channel = 128)



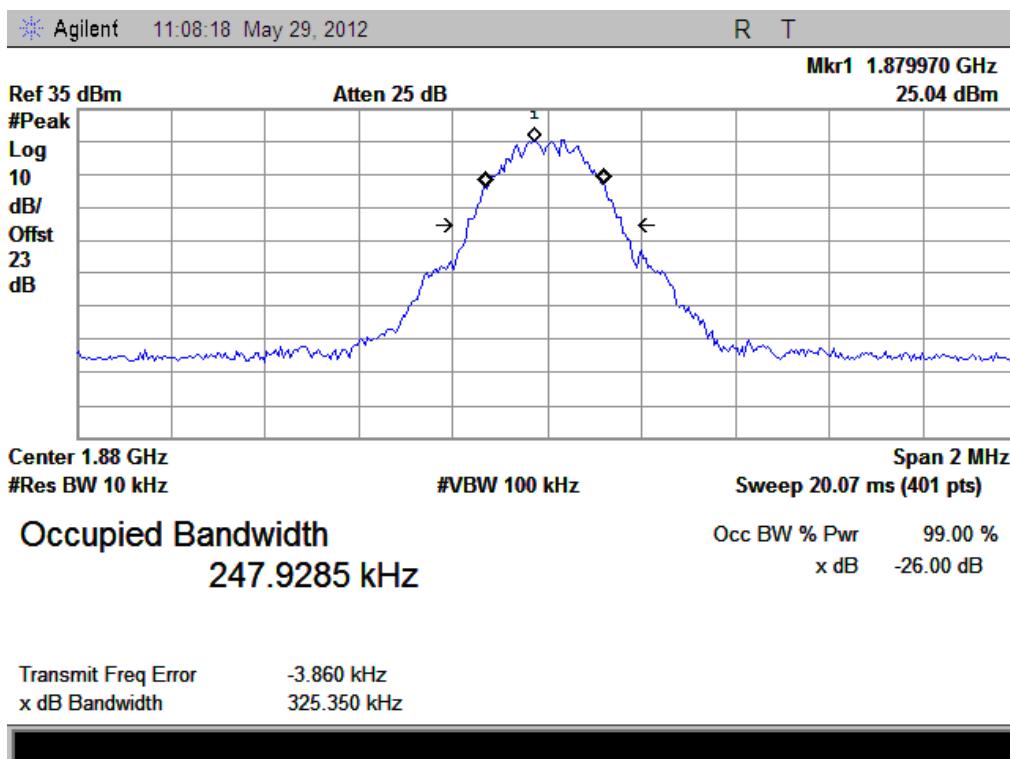
(Plot B: GSM 850MHz Channel = 190)



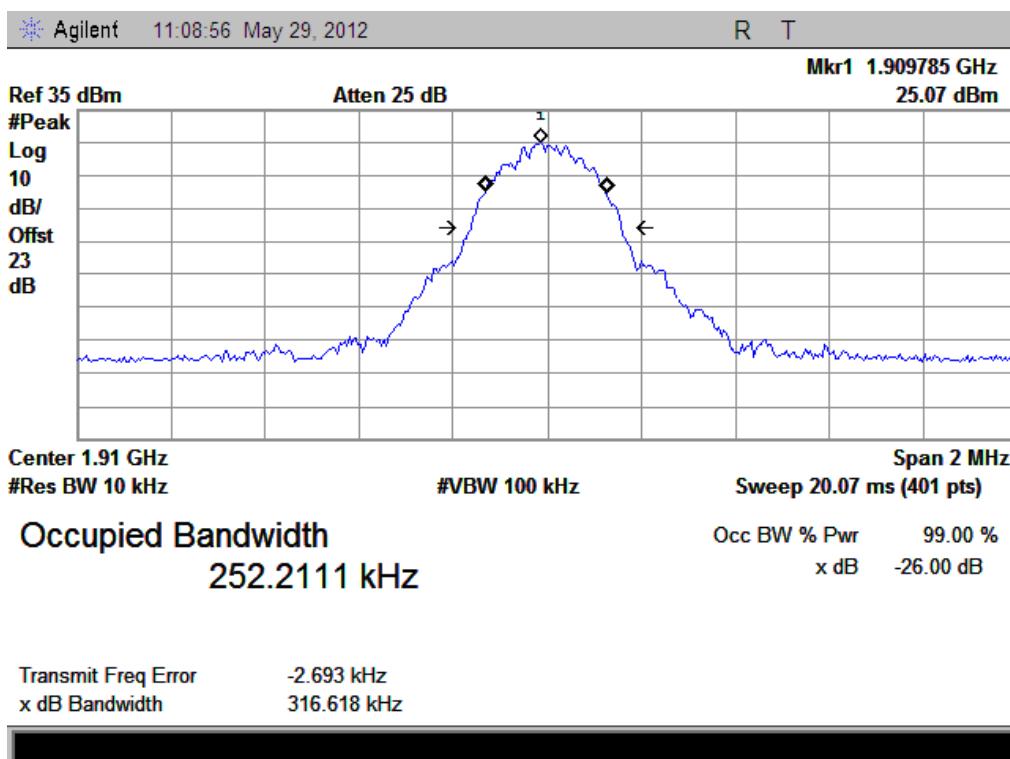
(Plot C: GSM 850MHz Channel = 251)



(Plot D: GSM 1900MHz Channel = 512)



(Plot E: GSM 1900MHz Channel = 661)



(Plot F: GSM 1900MHz Channel = 810)

## 2.3 Frequency Stability

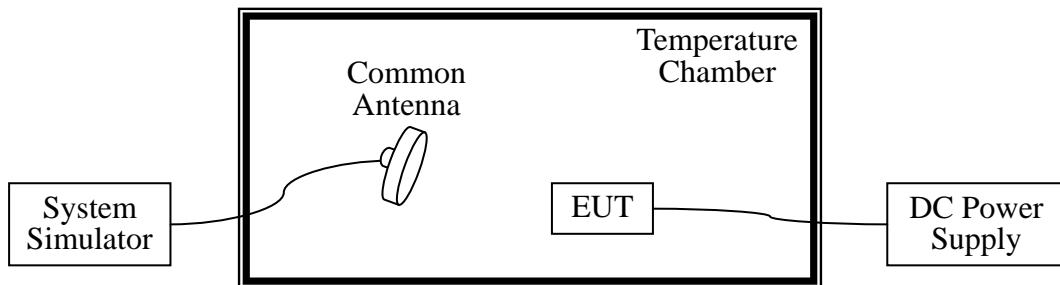
### 2.3.1 Requirement

According to FCC section 22.355 and FCC section 24.235, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -30°C to +50°C at intervals of not more than 10°C.
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

### 2.3.2 Test Description

#### 1. Test Setup:



The EUT, which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS via a Common Antenna.

#### 2. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date
System Simulator	Agilent	E5515C	GB43130131	2012.05
DC Power Supply	Good Will	GPS-3030DD	EF920938	2012.05
Temperature Chamber	YinHe Experimental Equip.	HL4003T	(n.a.)	2012.05

### 2.3.3 Test Verdict

The nominal, highest and lowest extreme voltages are separately 3.7VDC, 4.2VDC and 3.6VDC, which are specified by the applicant; the normal temperature here used is 25°C. The frequency

deviation limit of 850MHz band is  $\pm 2.5$ ppm, and 1900MHz is  $\pm 1$ ppm

### 1. GSM 850MHz Band

Test Conditions		Frequency Deviation						Verdict	
Power (VDC)	Temperature (°C)	Channel = 128 (824.2MHz)		Channel = 190 (836.6MHz)		Channel = 251 (848.8MHz)			
		Hz	Limits	Hz	Limits	Hz	Limits		
3.7	-30	10.72	$\pm 2060.5$	-11.06	$\pm 2091.5$	19.46	$\pm 2122$	PASS	
	-20	-11.17		21.06		-6.80			
	-10	5.31		13.05		7.58			
	0	-22.19		-12.76		23.11			
	+10	23.74		-2.05		19.46			
	+20	-10.39		-12.76		-15.51			
	+30	-18.89		-2.05		19.46			
	+40	5.31		-3.77		-6.80			
	+50	-22.19		5.39		7.58			
	4.2	+25		19.65		23.11			
3.6	+25	23.29		-20.70		-14.93			

### 2. GSM 1900MHz Band

Test Conditions		Frequency Deviation						Verdict	
Power (VDC)	Temperature (°C)	Channel = 512 (1850.2MHz)		Channel = 661 (1880.0MHz)		Channel = 810 (1909.8MHz)			
		Hz	Limits	Hz	Limits	Hz	Limits		
3.7	-30	-10.39	$\pm 1850.2$	38.28	$\pm 1880.0$	3.02	$\pm 1909.8$	PASS	
	-20	27.75		-2.15		-13.01			
	-10	19.70		40.06		0.51			
	0	-11.06		1.99		21.45			
	+10	21.06		-19.86		-16.04			
	+20	13.05		-2.32		3.06			
	+30	-12.76		23.12		-13.01			
	+40	-2.05		11.33		0.51			
	+50	40.72		-17.55		21.45			
	4.2	+25		38.10		-16.04			
3.6	+25	32.34		-22.06		-21.86			

## 2.4 Conducted Out of Band Emissions

### 2.4.1 Requirement

According to FCC section 22.917(a) and FCC section 24.238(a), 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. This calculated to be -13dBm.

### 2.4.2 Test Description

See section 2.1.2 of this report.

### 2.4.3 Test Result

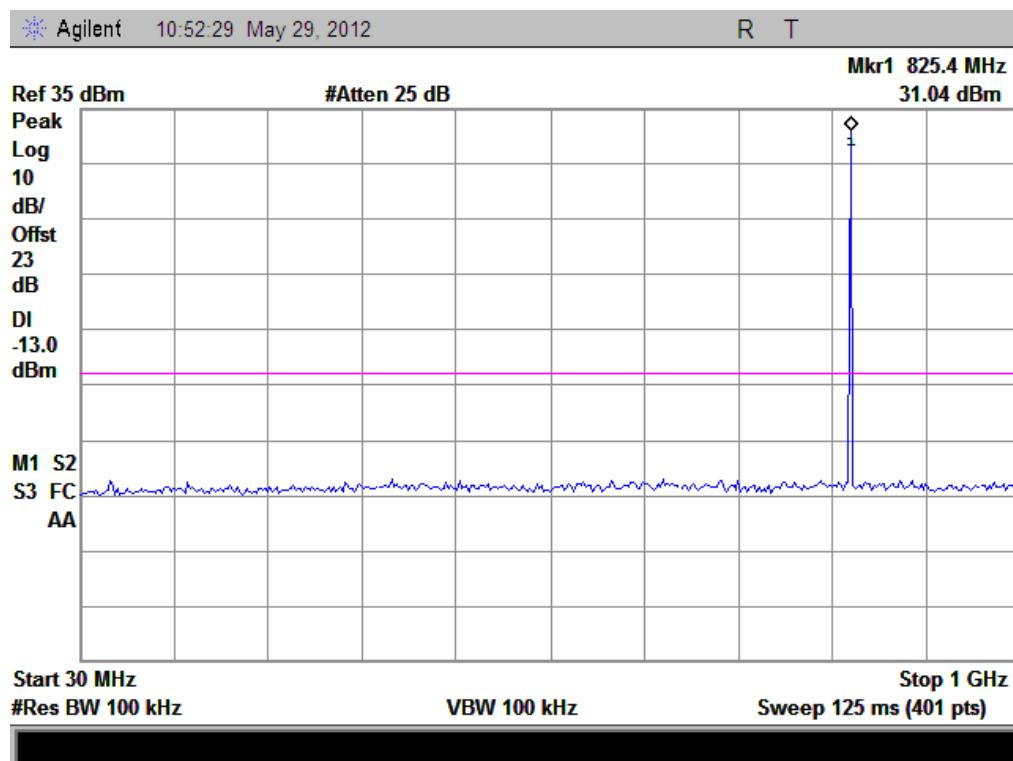
The measurement frequency range is from 30MHz to the 10<sup>th</sup> harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

#### 1. Test Verdict:

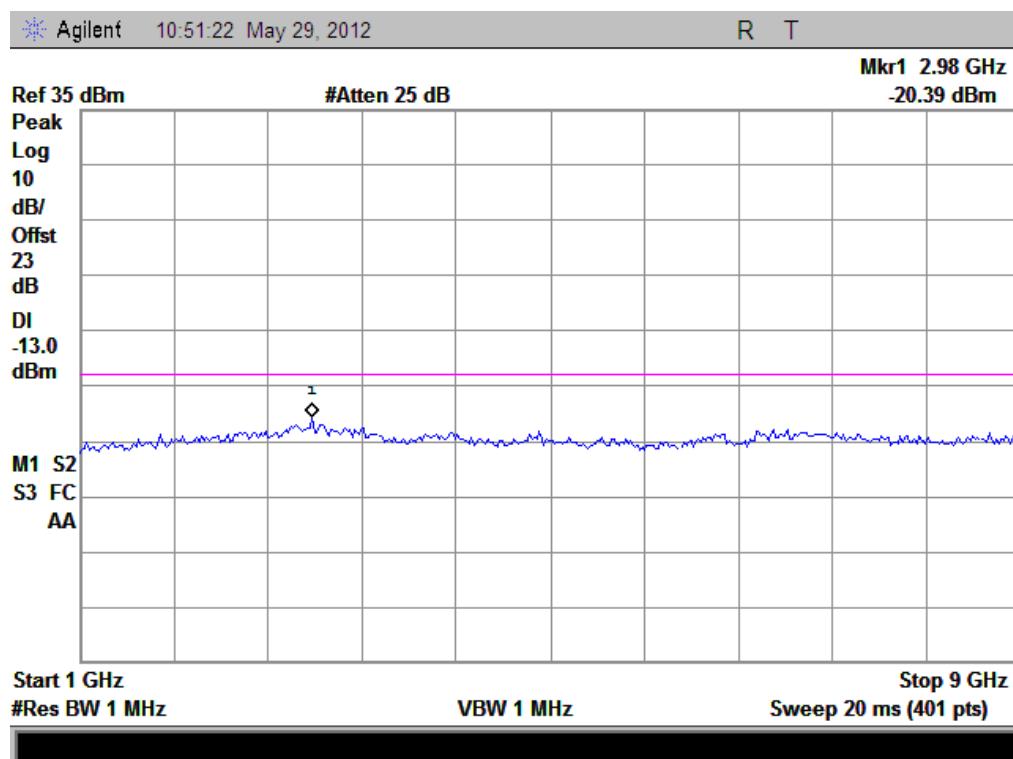
Band	Channe 1	Frequency (MHz)	Measured Max. Spurious Emission (dBm)	Refer to Plot	Limit (dBm)	Verdic t
GSM 850MHz	128	824.2	-20.39	Plot A1toA1.1	-13	PASS
	190	836.6	-20.41	Plot A2toA2.1		PASS
	251	848.8	-21.38	Plot A3toA3.1		PASS
GSM 1900MHz	512	1850.2	< -25	Plot B1toB1.1	-13	PASS
	661	1880.0	< -25	Plot B2toB2.1		PASS
	810	1909.8	< -25	Plot B3toB3.1		PASS

#### 2. Test Plots for the Whole Measurement Frequency Range:

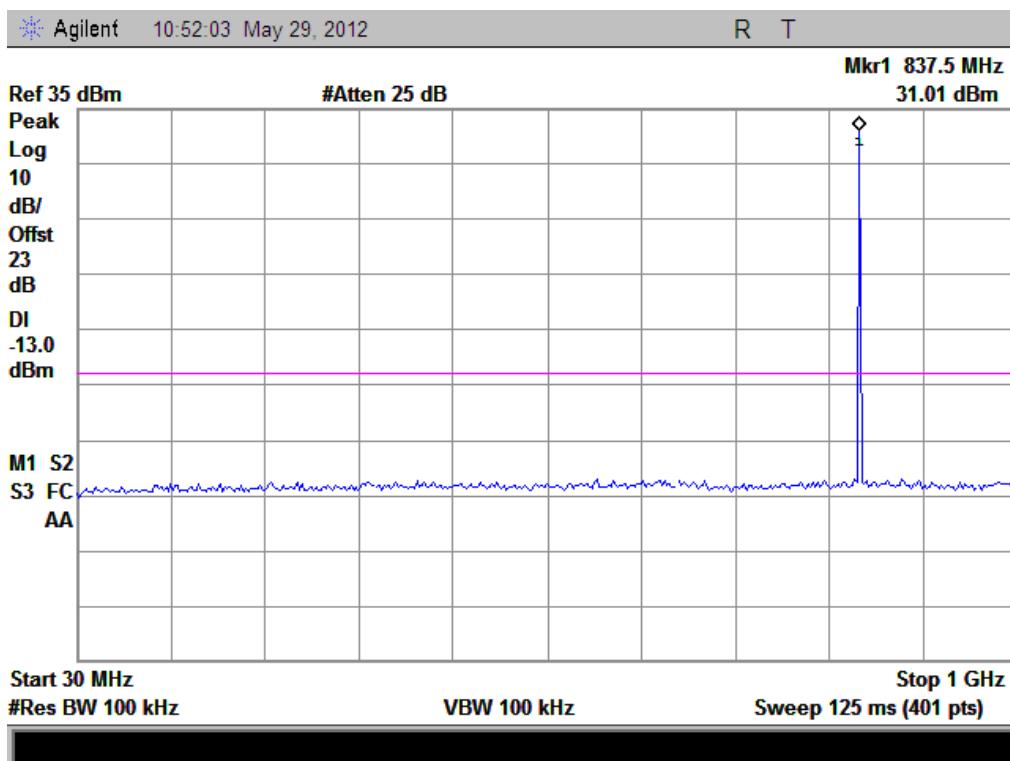
Note: the power of the EUT transmitting frequency should be ignored.



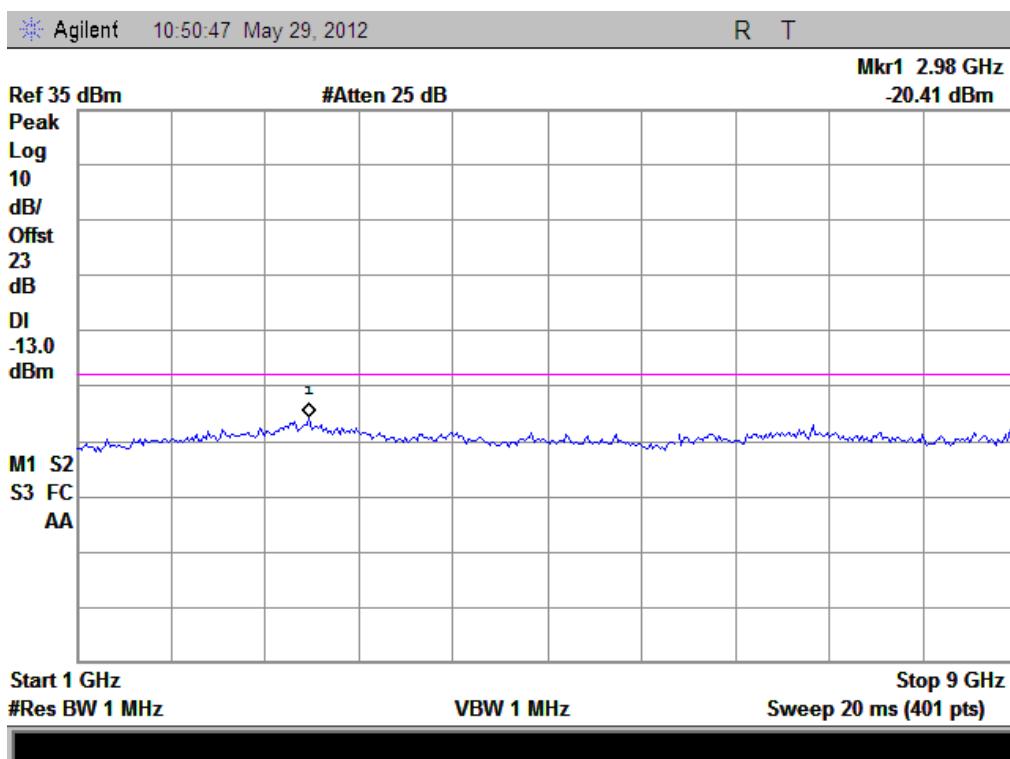
(Plot A1: GSM 850MHz Channel = 128, 30MHz to 1GHz)



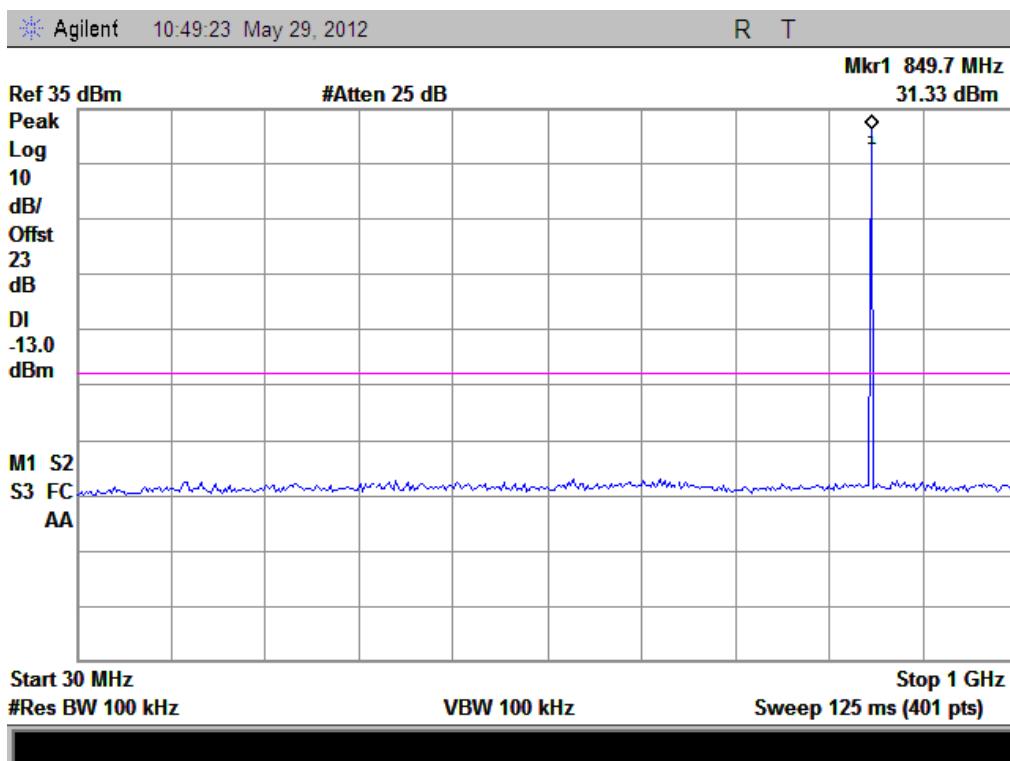
(Plot A1.1: GSM 850MHz Channel = 128, 1GHz to 9GHz)



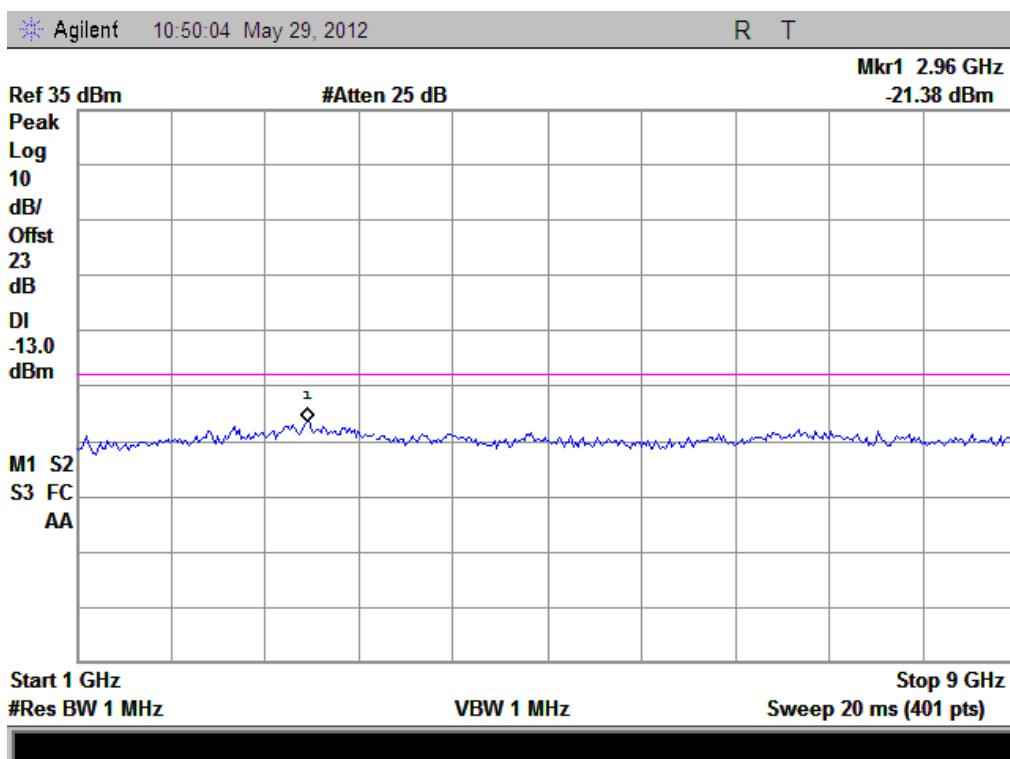
(Plot A2: GSM 850MHz Channel = 190, 30MHz to 1GHz)



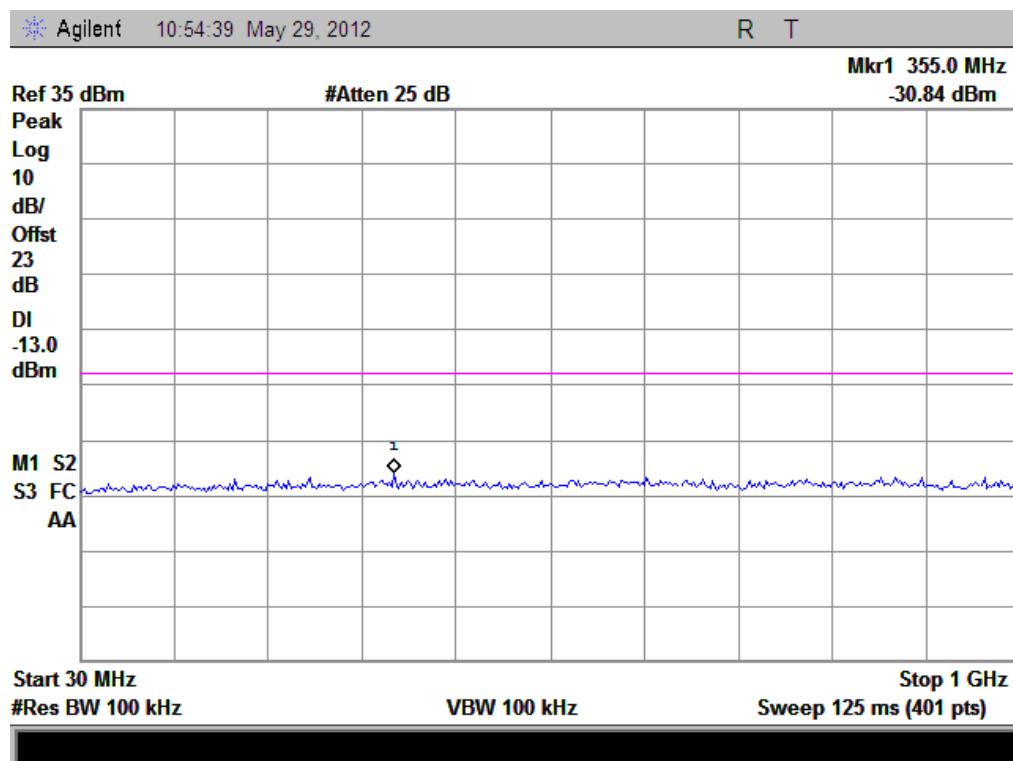
(Plot A2.1: GSM 850MHz Channel = 190, 1GHz to 9GHz)



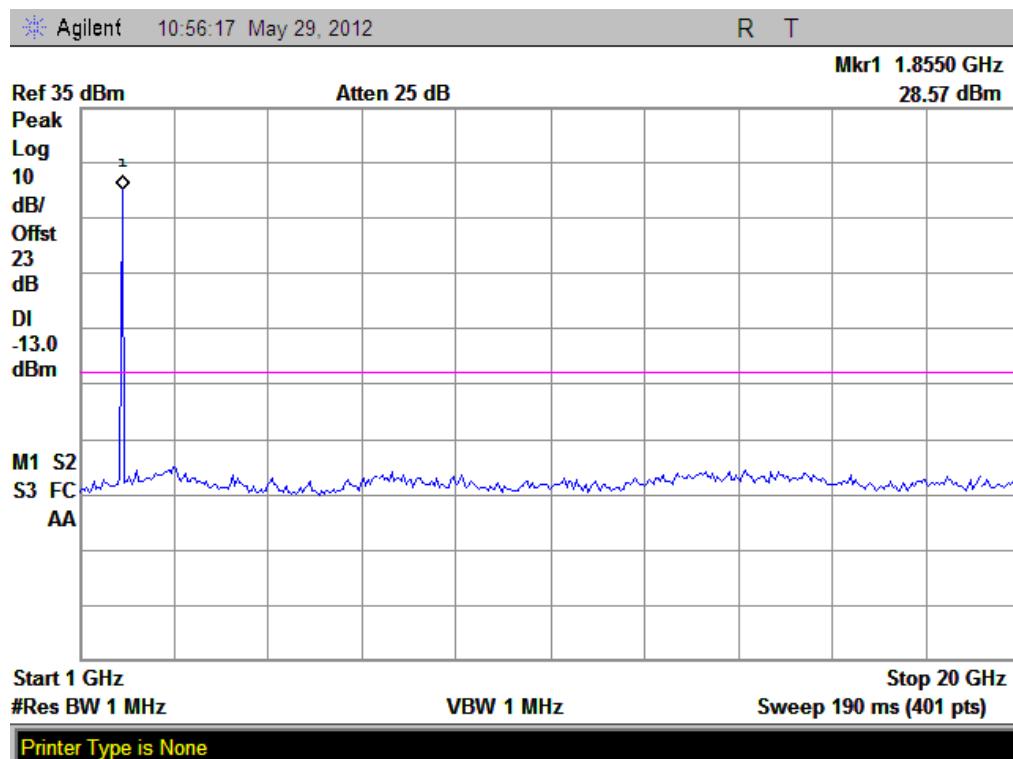
(Plot A3: GSM 850MHz Channel = 251, 30MHz to 1GHz)



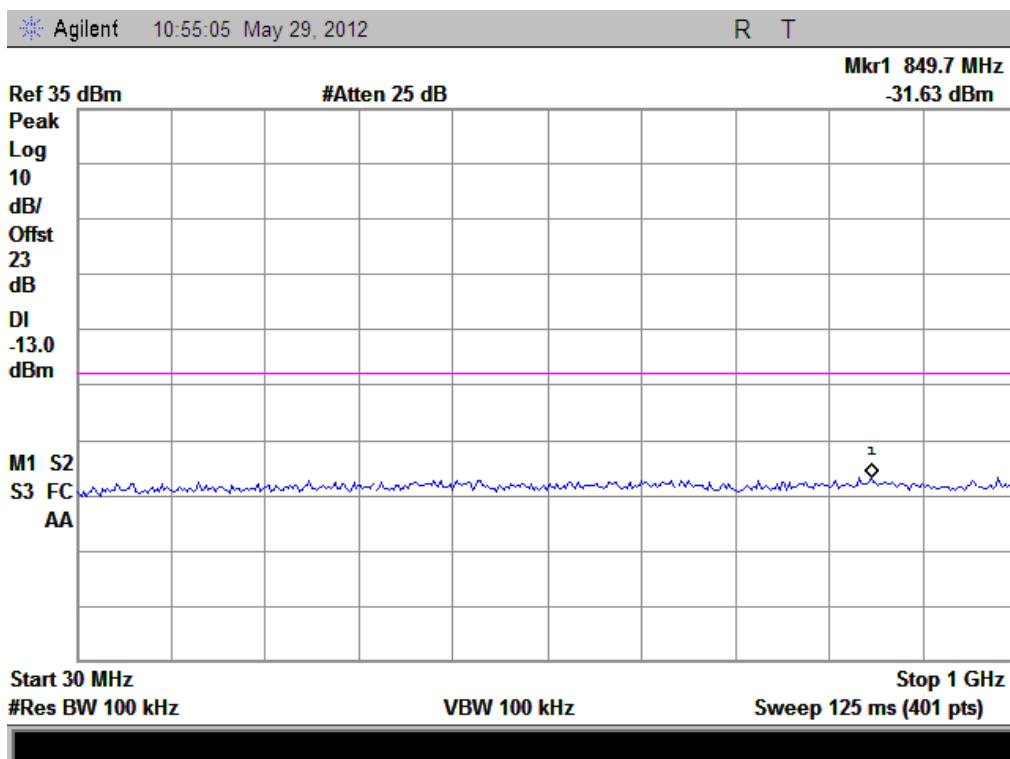
(Plot A3.1: GSM 850MHz Channel = 251, 1GHz to 9GHz)



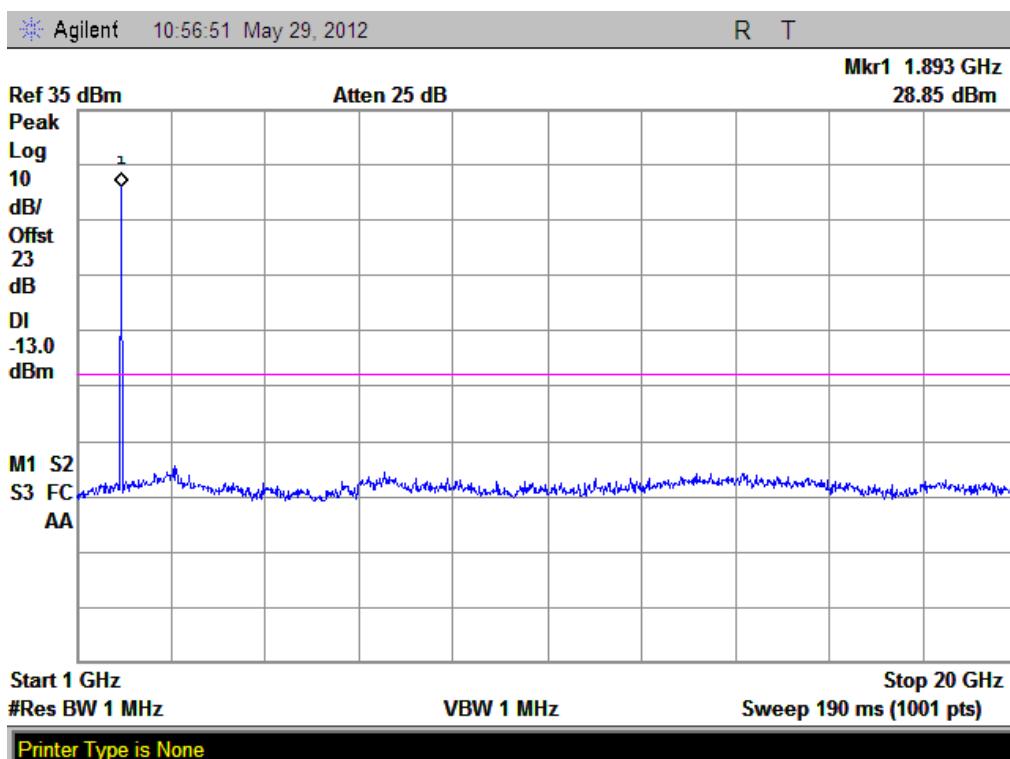
(Plot B1: GSM 1900MHz Channel = 512, 30MHz to 1GHz)



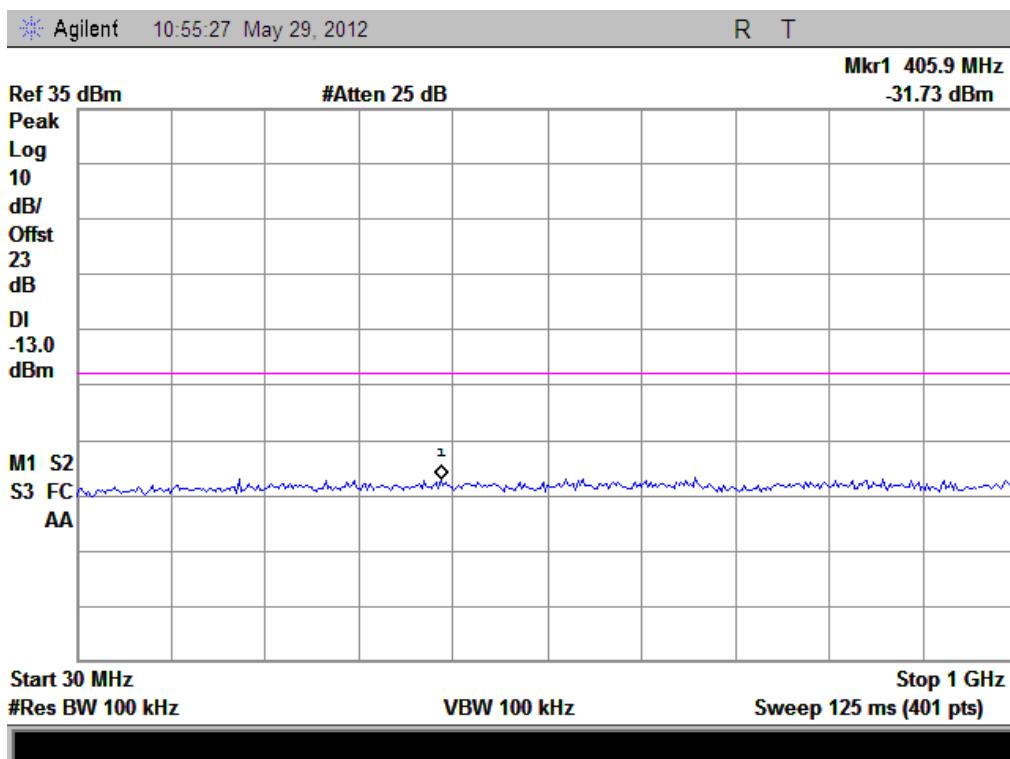
(Plot B1.1: GSM 1900MHz Channel = 512, 1GHz to 20GHz)



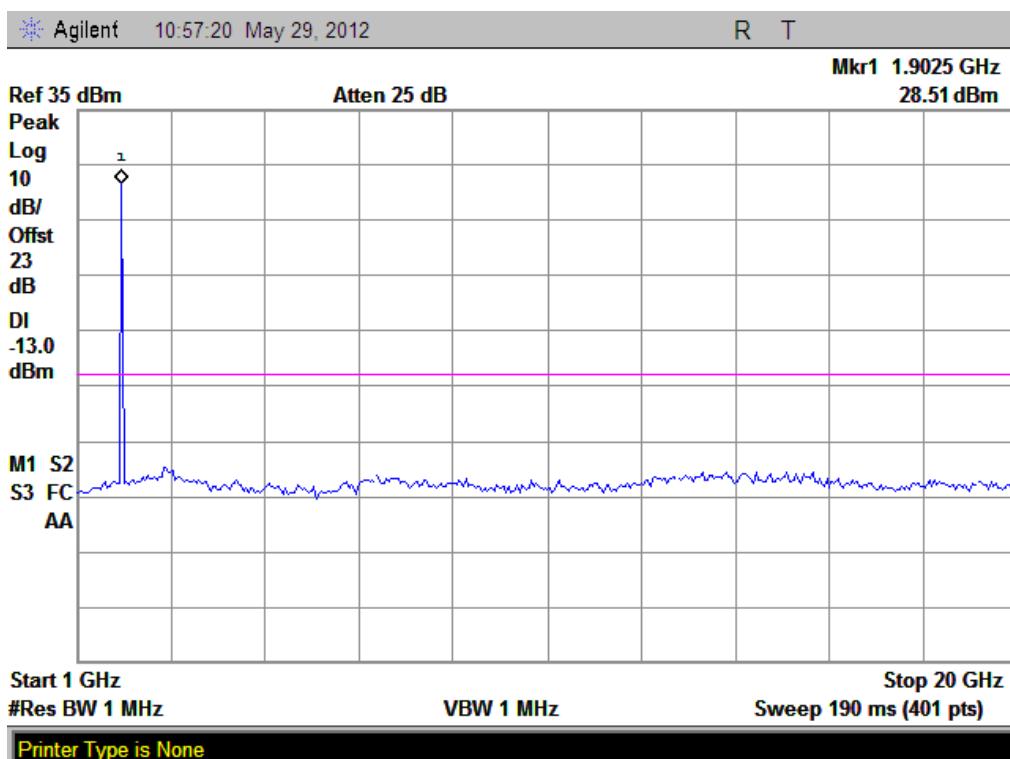
(Plot B2: GSM 1900MHz Channel = 661, 30MHz to 1GHz)



(Plot B2.1: GSM 1900MHz Channel = 661, 1GHz to 20GHz)



(Plot B3: GSM 1900MHz Channel = 810, 30MHz to 1GHz)



(Plot B3.1: GSM 1900MHz Channel = 810, 1GHz to 20GHz)

## 2.5 Band Edge

### 2.5.1 Requirement

According to FCC section 22.917(b) and FCC section 24.238(b), in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth (26dB emission bandwidth) of the fundamental emission of the transmitter may be employed.

### 2.5.2 Test Description

See section 2.1.2 of this report.

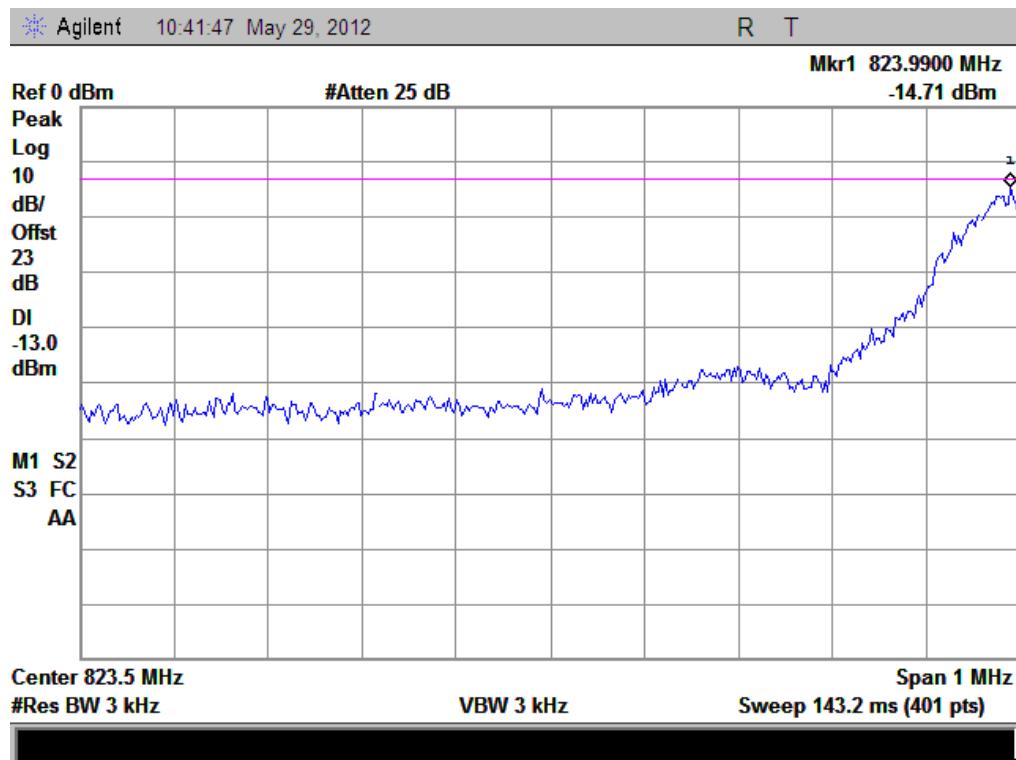
### 2.5.3 Test Result

The lowest and highest channels are tested to verify the band edge emissions.

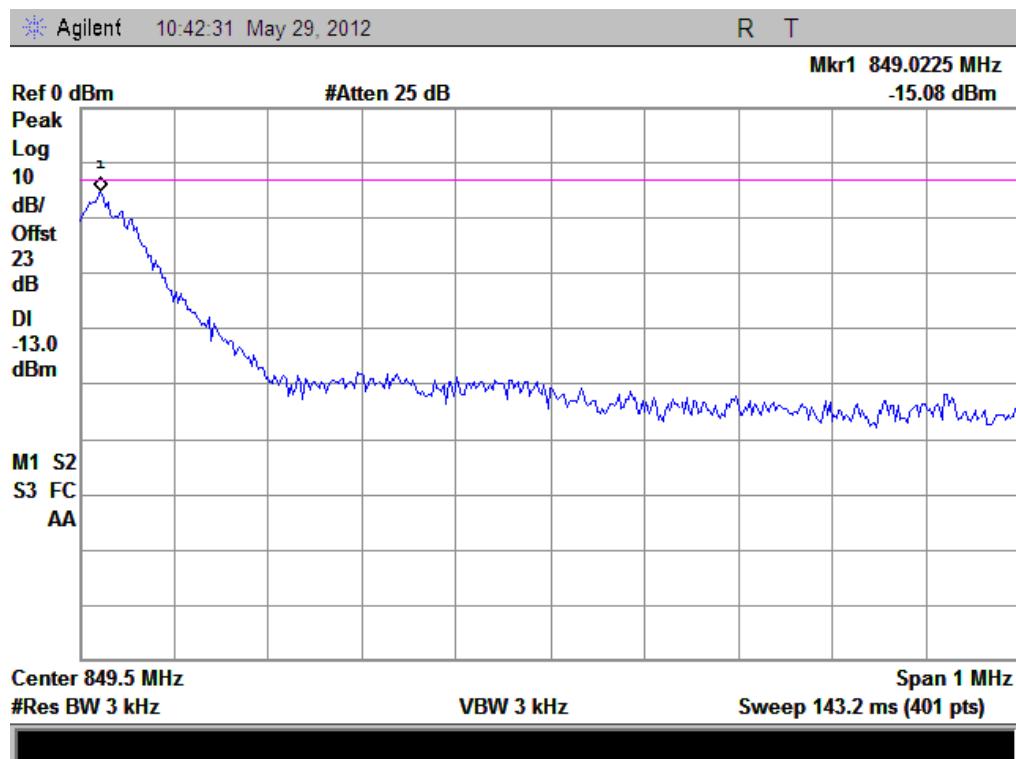
#### 1. Test Verdict:

Band	Channel	Frequency (MHz)	Measured Max. Band Edge Emission (dBm)	Refer to Plot	Limit (dBm)	Verdict
GSM 850MHz	128	824.2	-14.71	Plot A	-13	PASS
	251	848.8	-15.08	Plot B		PASS
GSM 1900MHz	512	1850.2	-14.70	Plot C	-13	PASS
	810	1909.8	-15.44	Plot D		PASS

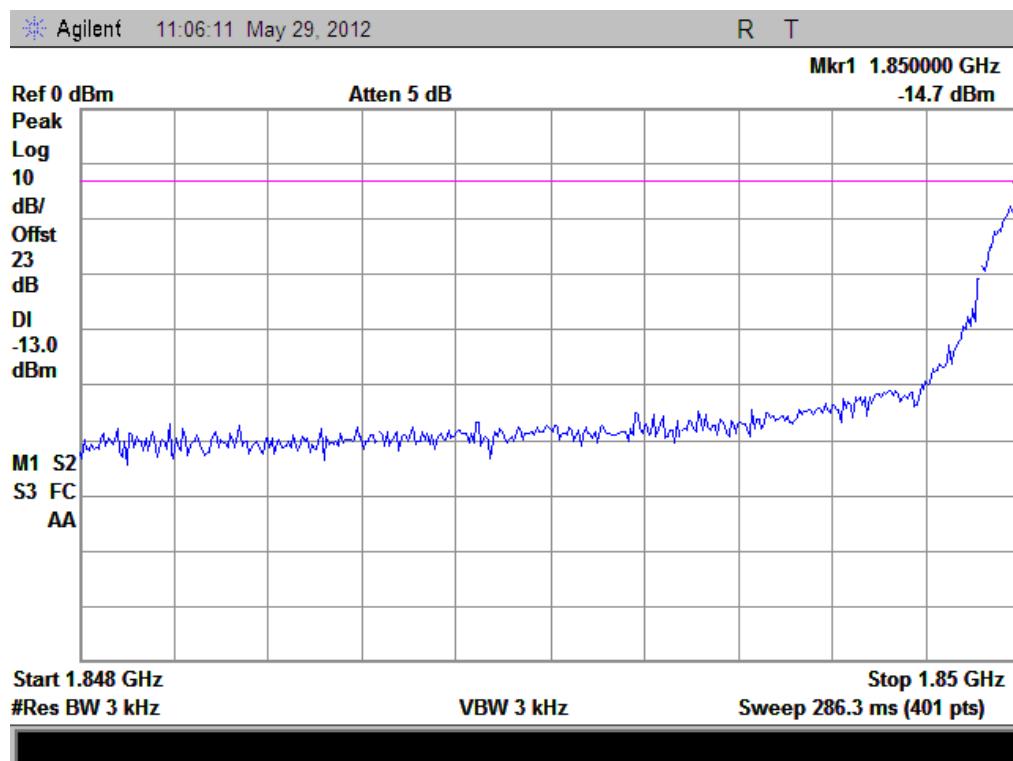
## 2. Test Plots:



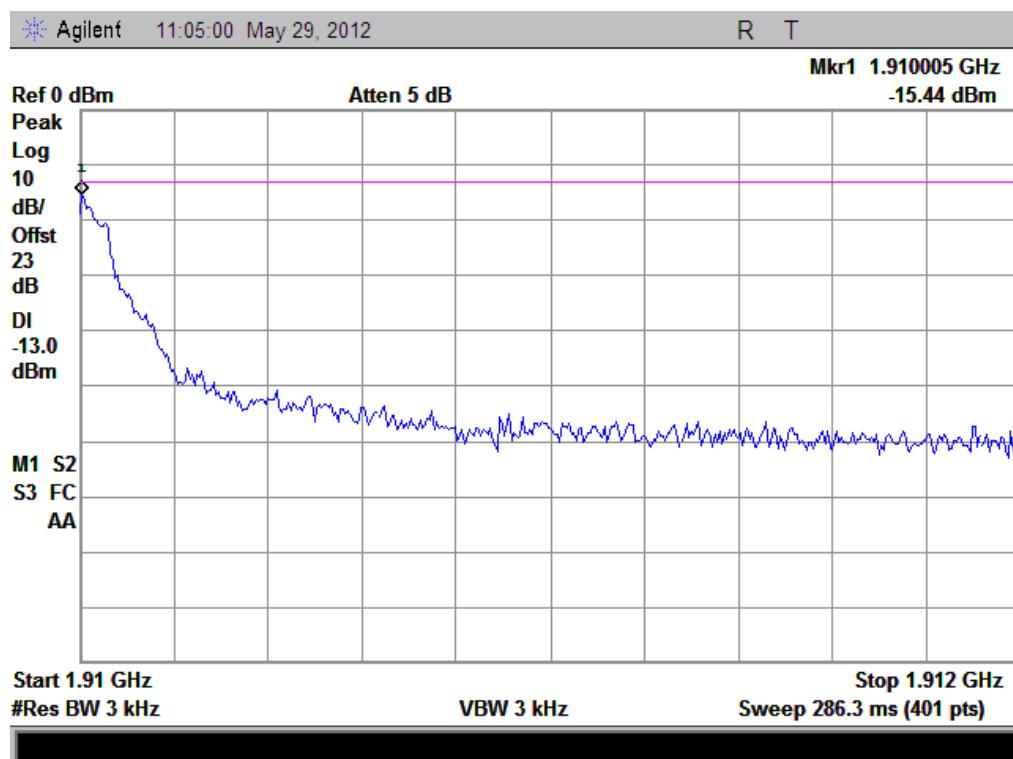
(Plot A: GSM 850 Channel = 128)



(Plot B: GSM 850 Channel = 251)



(Plot C: GSM 1900 Channel = 512)



(Plot D: GSM 1900 Channel = 810)

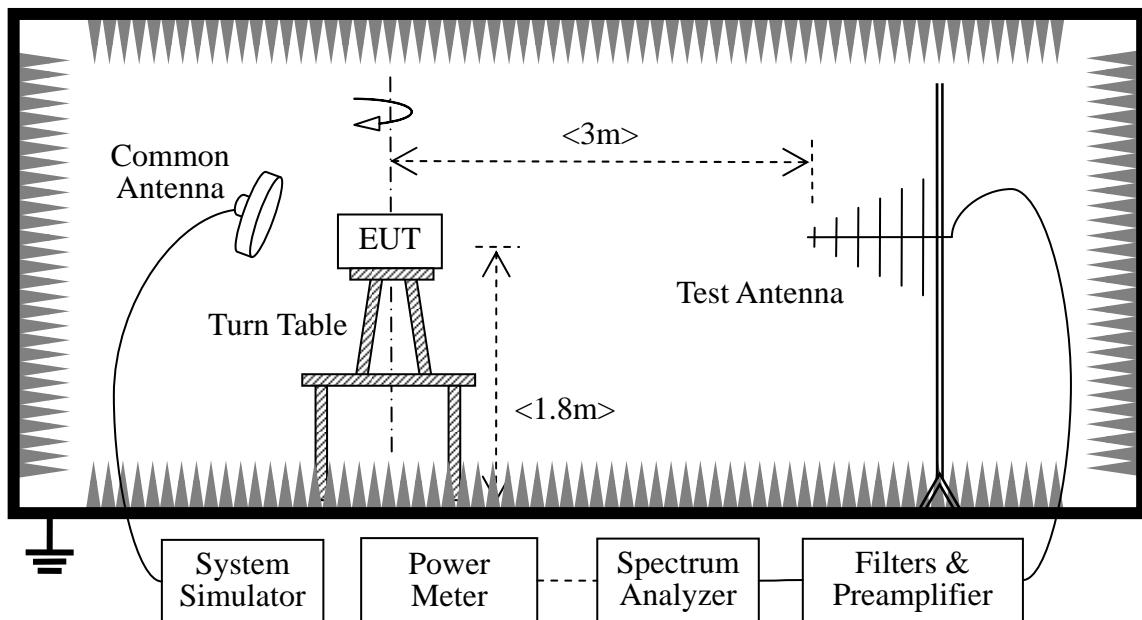
## 2.6 Transmitter Radiated Power (EIRP/ERP)

### 2.6.1 Requirement

According to FCC section 22.913, the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7Watts, and FCC section 24.232, the broadband PCS mobile station is limited to 2 Watts e.i.r.p. peak power.

### 2.6.2 Test Description

#### 1. Test Setup:



The EUT, which is powered by the Battery charged with the AC Adapter, is located in a 3m Full-Anechoic Chamber; the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading.

A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power (i.e. GSM850MHz band Power Control Level (PCL) = 5/19 and Power Class = 4, GSM1900MHz band Power Control Level (PCL) = 0/15 and Power Class = 1), and only the test result of the maximum output power was recorded.

- GSM Maximum RF output power: GSM850 32.35dBm, GSM 1900 28.19dBm, WCDMA 850 22.32, WCDMA 1900 22.58, Please refer to section 2.1.3 of this report.

- Step size (dB): 3dB

- Minimum RF power: GSM850 3.1dBm, GSM 1900 0.3dBm, WCDMA 850 2.09dBm, WCDMA 1900 0.5dBm.

The Test Antenna is a Bi-Log one (used for 30MHz to 1GHz) or a Horn one (used for above 3GHz), and it's located at the same height as the EUT. The Filters consists of Notch Filters and High Pass Filter.

## 2. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date
System Simulator	Agilent	E5515C	GB43130131	2012.05
Spectrum Analyzer	Agilent	E7405A	US44210471	2012.05
Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2012.05
Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	9163-274	2012.05
Test Antenna - Horn	Schwarzbeck	BBHA 9120C	9120C-384	2012.05

### 2.6.3 Test Result

The Turn Table is actuated to turn from  $0^\circ$  to  $360^\circ$ , and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested.

The substitution corrections are obtained as described below:

$$A_{SUBST} = P_{SUBST\_TX} - P_{SUBST\_RX} - L_{SUBST\_CABLES} + G_{SUBST\_TX\_ANT}$$

$$A_{TOT} = L_{CABLES} + A_{SUBST}$$

Where  $A_{SUBST}$  is the final substitution correction including receive antenna gain.

$P_{SUBST\_TX}$  is signal generator level,

$P_{SUBST\_RX}$  is receiver level,

$L_{SUBST\_CABLES}$  is cable losses including TX cable,

$G_{SUBST\_TX\_ANT}$  is substitution antenna gain.

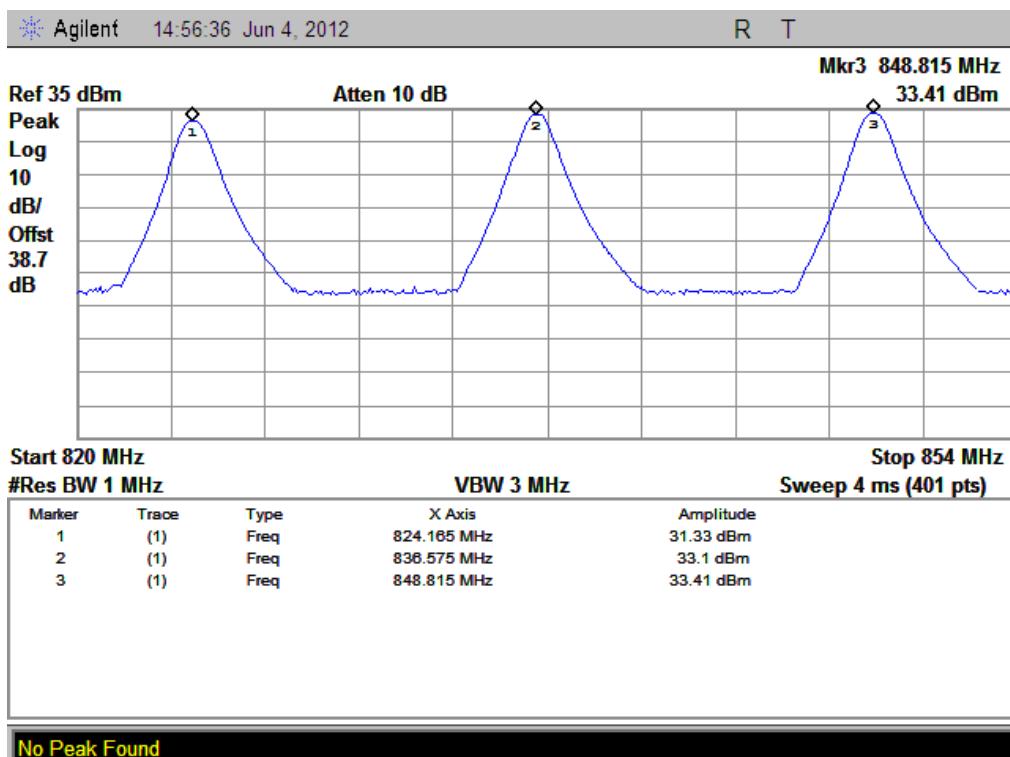
$A_{TOT}$  is total correction factor including cable loss and substitution correction

During the test, the data of  $A_{TOT}$  was added in the Test Spectrum Analyze, so Spectrum Analyze reading is the final values which contain the data of  $A_{TOT}$ .

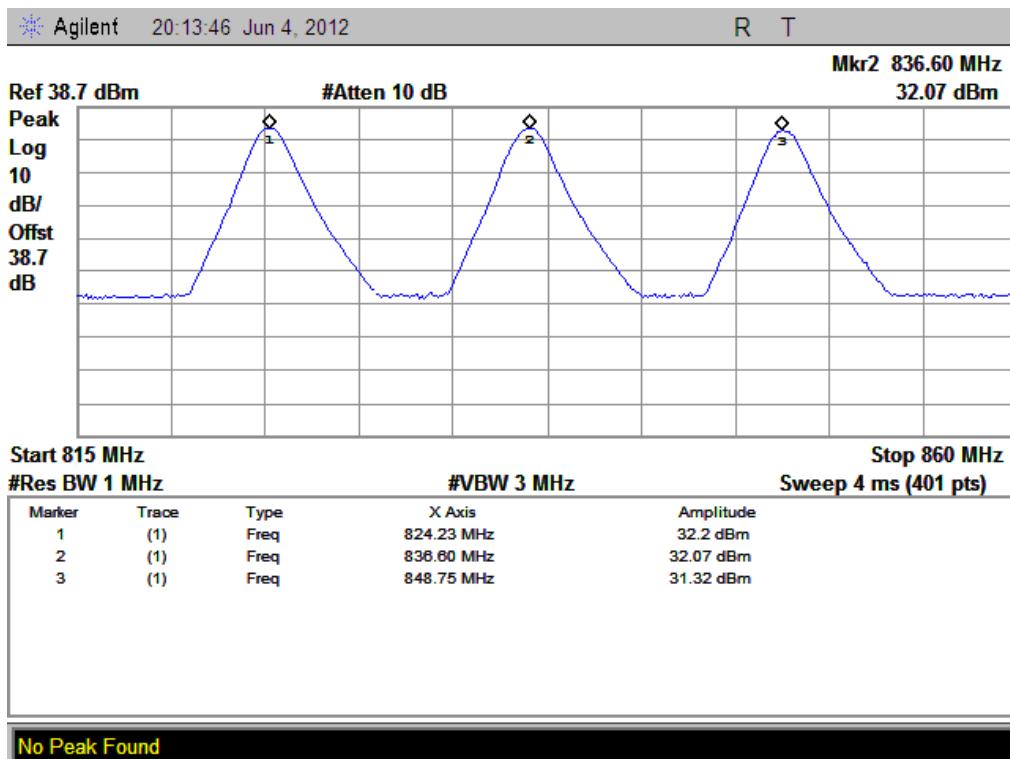
## 1. GSM Model Test Verdict:

Band	Channel	Frequency (MHz)	PCL	Measured ERP			Limit		Verdict
				dBm	W	Refer to Plot	dBm	W	
GSM 850MHz	128	824.20	5	31.33	1.358313	Plot A	38.5	7	PASS
	190	836.60	5	33.10	2.041738				PASS
	251	848.80	5	33.41	2.192805				PASS
GPRS 850MHz	128	824.20	5	32.20	1.659587	Plot B <sup>Note 1</sup>	38.5	7	PASS
	190	836.60	5	32.07	1.610646				PASS
	251	848.80	5	31.32	1.355189				PASS
Band	Channel	Frequency (MHz)	PCL	Measured EIRP			Limit		Verdict
				dBm	W	Refer to Plot	dBm	W	
GSM 1900MHz	512	1850.2	0	30.75	1.188502	Plot C	33	2	PASS
	661	1880.0	0	31.48	1.406048				PASS
	810	1909.8	0	30.90	1.230269				PASS
GPRS 1900MHz	512	1850.2	0	29.20	0.831764	Plot D <sup>Note 1</sup>	33	2	PASS
	661	1880.0	0	30.28	1.066596				PASS
	810	1909.8	0	26.99	0.500035				PASS

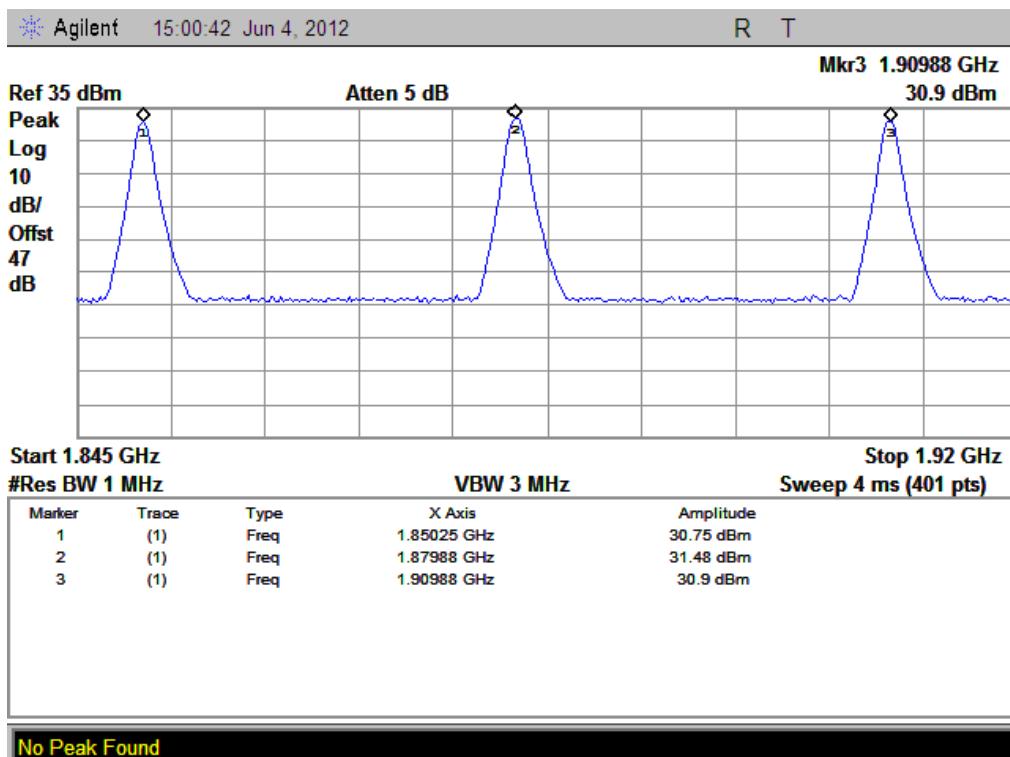
## 2. Test Plots:



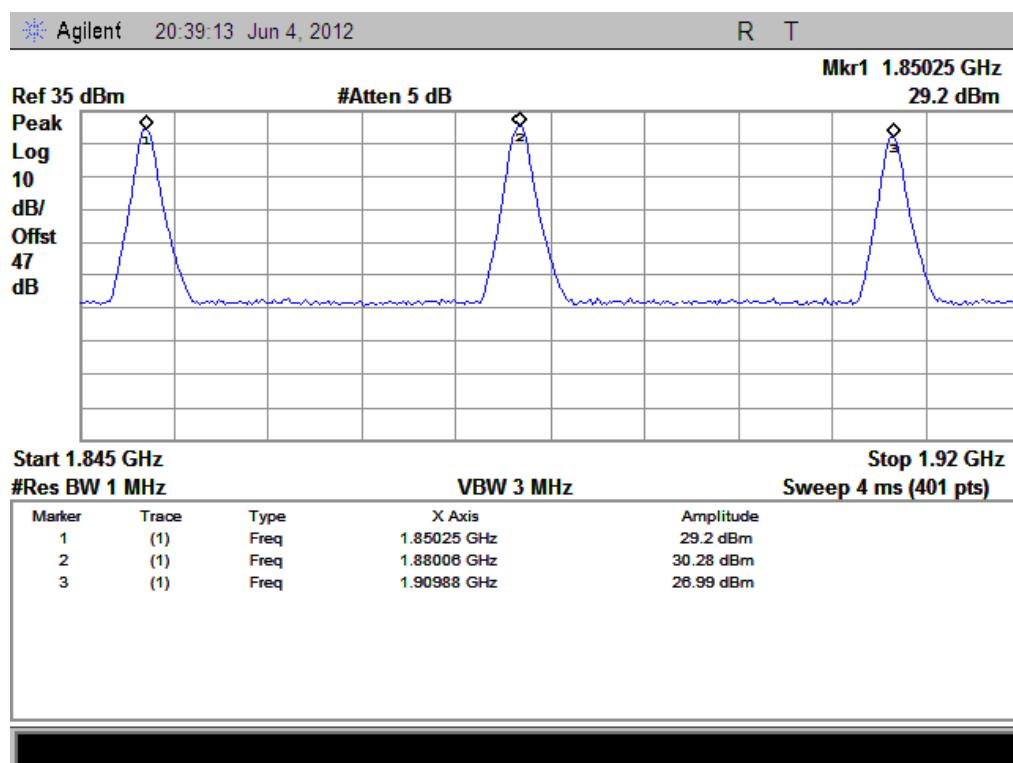
(Plot A: GSM 850MHz Channel = 128, 190, 251)



(Plot B: GPRS 850MHz Channel = 128, 190, 251)



(Plot C: GSM1900MHz Channel = 512, 661, 810)



(Plot D: GPRS 1900MHz Channel = 512, 661, 810)

## 2.7 Radiated Out of Band Emissions

### 2.7.1 Requirement

According to FCC section 22.917(a) and section 24.238(a), 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. This calculated to be -13dBm.

### 2.7.2 Test Description

See section 2.6.2 of this report.

Note: when doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

### 2.7.3 Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from  $0^\circ$  to  $360^\circ$ , and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested to verify the out of band emissions.

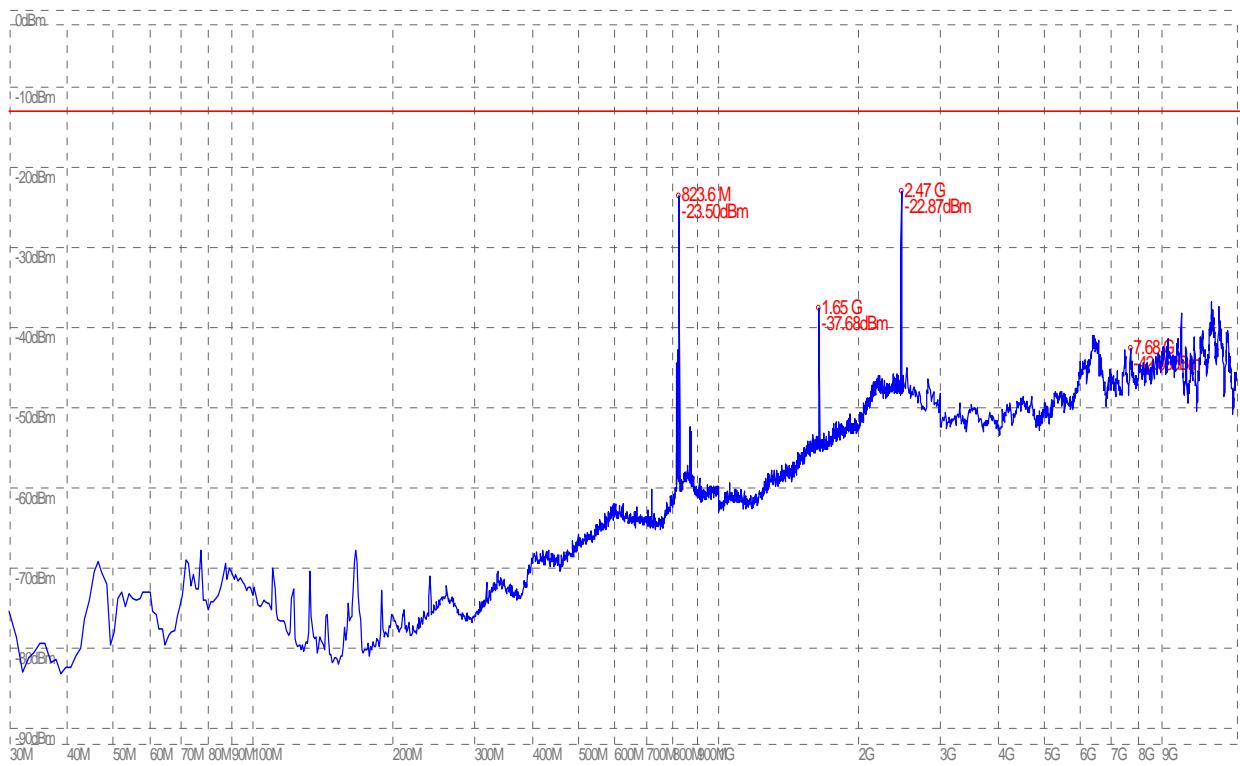
#### 1. Test Verdict:

Band	Channel	Frequency (MHz)	Measured Max. Spurious Emission (dBm)		Refer to Plot	Limit (dBm)	Verdict
			Test Antenna Horizontal	Test Antenna Vertical			
GSM 850MHz	128	824.2	< -25	< -25	Plot A.1/A.2	-13	PASS
	190	836.6	< -25	< -25	Plot A.3/A.4		PASS
	251	848.8	< -25	< -25	Plot A.5/A.6		PASS
GSM 1900MHz	512	1850.2	< -25	< -25	Plot B.1/B.2	-13	PASS
	661	1880.0	< -25	< -25	Plot B.3/B.4		PASS
	810	1909.8	< -25	< -25	Plot B.5/B.6		PASS

#### 2. Test Plots for the Whole Measurement Frequency Range:

Note1: the power of the EUT transmitting frequency should be ignored.

Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.



(Plot A.1: GSM 850MHz Channel = 128, Test Antenna Horizontal)



(Plot A.2: GSM 850MHz Channel = 128, Test Antenna Vertical)



(Plot A.3: GSM 850MHz Channel = 190, Test Antenna Horizontal)



(Plot A.4: GSM 850MHz Channel = 190, Test Antenna Vertical)



(Plot A.5: GSM 850MHz Channel = 251, Test Antenna Horizontal)



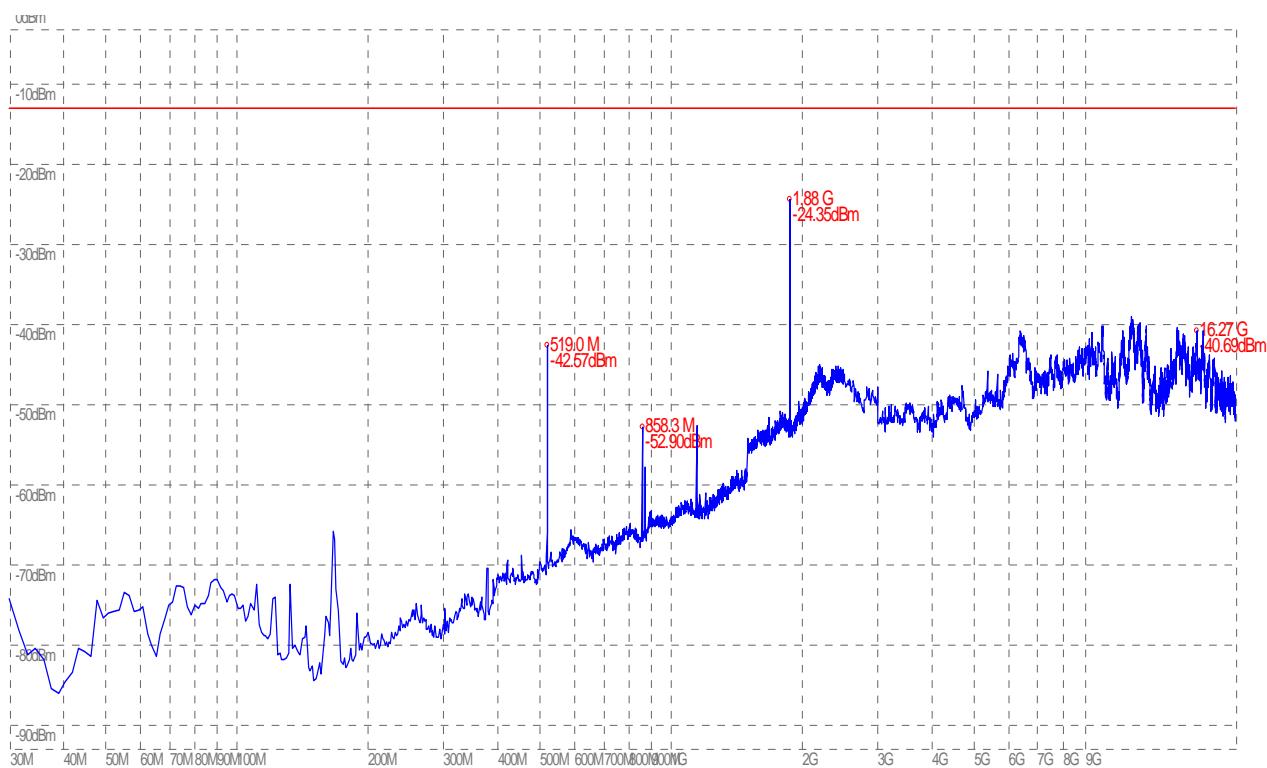
(Plot A.6: GSM 850MHz Channel = 251, Test Antenna Vertical)



(Plot B.1: GSM 1900MHz Channel = 512, Test Antenna Horizontal)



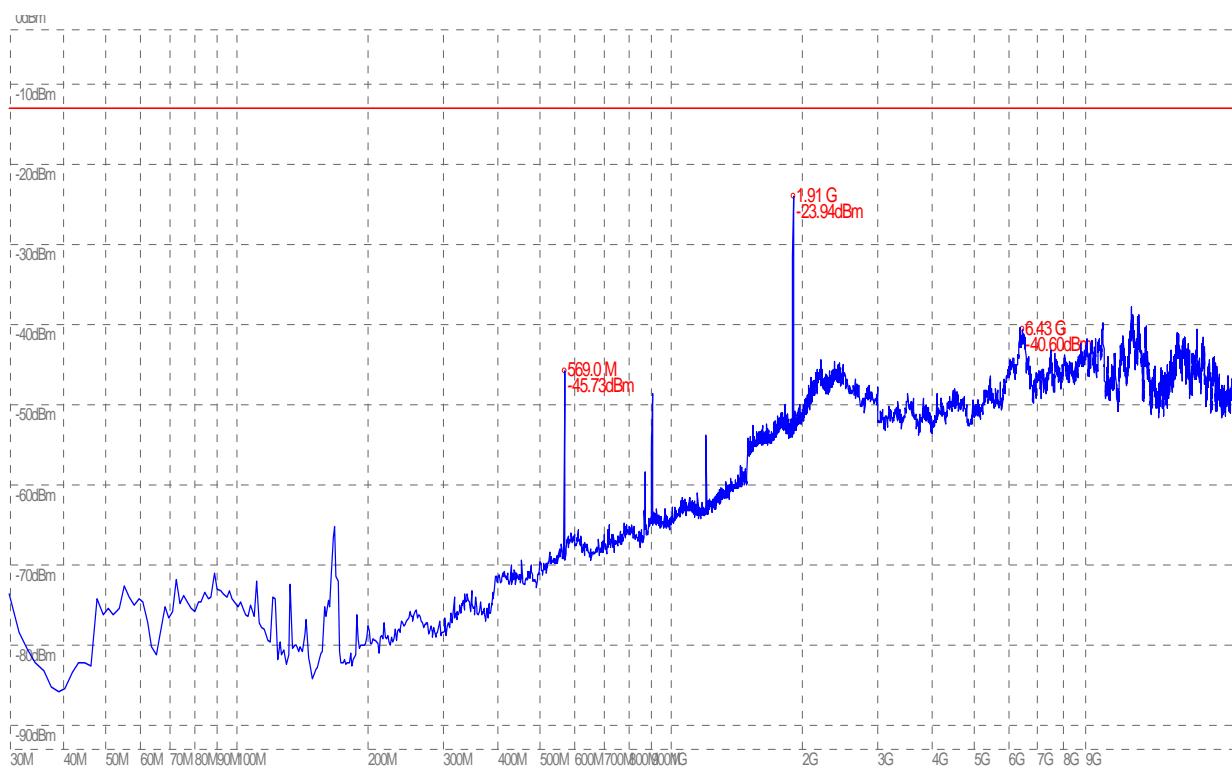
(Plot B.2: GSM 1900MHz Channel = 512, Test Antenna Vertical)



(Plot B.3: GSM 1900MHz Channel = 661, Test Antenna Horizontal)



(Plot B.4: GSM 1900MHz Channel = 661, Test Antenna Vertical)



(Plot B.5: GSM 1900MHz Channel = 810, Test Antenna Horizontal)



(Plot B.6: GSM 1900MHz Channel = 810, Test Antenna Vertical)

\*\* END OF REPORT \*\*