



**FCC CFR47 PART 22 SUBPART H  
FCC CFR47 PART 24 SUBPART E  
CERTIFICATION TEST REPORT**

**FOR**

**GSM PHONE WITH 802.11B/G AND BLUETOOTH**

**MODEL NUMBER: P102UEU**

**FCC ID: O8F-ROAY**

**REPORT NUMBER: 10U13340-1**

**ISSUE DATE: AUGUST 18, 2010**

*Prepared for*

**PALM  
950 MAUDE AVENUE  
SUNNYVALE, CA 94085, U.S.A.**

*Prepared by*

**COMPLIANCE CERTIFICATION SERVICES  
47173 BENICIA STREET  
FREMONT, CA 94538, U.S.A.  
TEL: (510) 771-1000  
FAX: (510) 661-0888**



**NVLAP LAB CODE 200065-0**

Revision History

Rev.	Issue Date	Revisions	Revised By
---	08/18/10	Initial Issue	T. Chan

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## 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** PALM  
950 MAUDE AVENUE  
SUNNYVALE, CA 94085, U.S.A.

**EUT DESCRIPTION:** GSM PHONE WITH 802.11B/G AND BLUETOOTH

**MODEL:** P102UEU

**SERIAL NUMBER:** RD1BU6NA6927

**DATE TESTED:** AUGUST 11-17, 2010

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 22 Subpart H	Pass
CFR 47 Part 24 Subpart E	Pass

Compliance Certification Services, Inc. (CCS) tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by CCS based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

**Note:** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by CCS and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by CCS will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For CCS By:



THU CHAN  
ENGINEERING MANAGER  
COMPLIANCE CERTIFICATION SERVICES

Tested By:



CHIN PANG  
EMC ENGINEER  
COMPLIANCE CERTIFICATION SERVICES

## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with TIA-603-C, FCC CFR 47 Part 2, FCC CFR 47 Part 22, and FCC CFR Part 24.

## 3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

## 4. CALIBRATION AND UNCERTAINTY

### 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

### 4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) +  
Cable Loss (dB) – Preamp Gain (dB)

36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

### 4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 30 to 1000 MHz	4.94 dB

Uncertainty figures are valid to a confidence level of 95%.

## 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

The EUT is a GSM850/1900MHz with 802.11bg and BT 2.1, EDR Phone.

#### GENERAL INFORMATION

Power Requirements	100-240 VAC / 50-60 Hz
List of frequencies generated or used by the EUT	1GHz

#### ACCESSORIES

The EUT was constructed and using the following accessories:

Accessories Description	Manufacturer/ Trademark	Part Number
AC Power Adapter source #1 Input Rating: 100–240 Vac, 50/60Hz, 0.2A Output Rating: 5Vdc, 1000mA	Palm	157-10124-00
Inductive Charging Dock Input Rating: 5Vdc, 1000mA	Palm	157-10123-00
Battery source #1 (Cell Origin Japan) Type: Rechargeable Li-ion Polymer Rating: 3.7Vdc, 1150mAh (minimum)	Palm	157-10119-00
Earphone	Palm	180-10632-00
USB cable	Palm	180-10647-00
Inductive Back Cover (black color)	Palm	180-10704-00

## 5.2. . MAXIMUM OUTPUT POWER

The transmitter has a maximum ERP & EIRP output powers as follows:

### Part 22 Cellular Band

Frequency range (MHz)	Modulation	Conducted		ERP	
		dBm	mW	dBm	mW
824.2 – 848.8	GSM	33.34	2157.7	34.90	3090.3
824.2 – 848.8	EGPRS	31.09	1285.3	30.40	1096.5

### Part 24 PCS Band

Frequency range (MHz)	Modulation	Conducted		EIRP	
		dBm	mW	dBm	mW
1850.20 – 1909.8	GSM	29.67	926.8	31.50	1412.5
1850.20 – 1909.8	EGPRS	29.57	905.7	27.60	575.4

## 5.3. DESCRIPTION OF AVAILABLE ANTENNS

The radio utilizes a PCB integrated antenna with a maximum gain of 1.2dBi for Cell band and 0.5dBi for PCS band.

## 5.4. SOFTWARE AND FIRMWARE

The EUT is linked with CMU200 Communication Test Set.

## **5.5. WORST-CASE CONFIGURATION AND MODE**

The worst-case channel is determined as the channel with the highest output power.

Based on the investigation results, the highest peak power and enhanced data rate is the worst-case scenario for all measurements.

Worst case modes:

- Cellular Band:
  - GSM (GSMK) – with highest peak power
  - EGPRS (8PSK) – with Enhanced Data rates
- PCS Band:
  - GSM (GSMK) – with highest peak power
  - EGPRS (8PSK) – with Enhanced Data rates

For the fundamental investigation, since the EUT is a portable device that has three orientations; therefore X, Y and Z orientations have been investigated, also with AC/DC adapter, and inductive charging dock position, and the worst case was found to be at Y orientation without AC/DC adapter.

The worst-case configuration has been evaluated on EUT with antenna @ Y-position for both 850MHz and 1900MHz bands by comparing the fundamental ERP / EIRP output power.

For the AC line conducted test, both worst configurations were tested as EUT with AC/DC adapter and EUT with inductive charging dock.



## 5.6. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
DC Power Supply	XANTREX	XHR 60-18	NA	NA
Communication Test Set	R&S	CMU200	106291	NA
Directional Coupler	Amplifier Research	DC7144A	NA	NA
EarPhone	Palm	NA	NA	NA

### I/O CABLES (CONDUCTED TEST)

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	AC	2	US 115V	Un-shielded	2m	NA
2	RF In/Out	1	Directional Coupler	Un-shielded	1m	NA
3	RF In/Out	1	Communication Test Set	Un-shielded	1.2m	NA
4	RF In/Out	1	Phone	Un-shielded	0.1m	NA

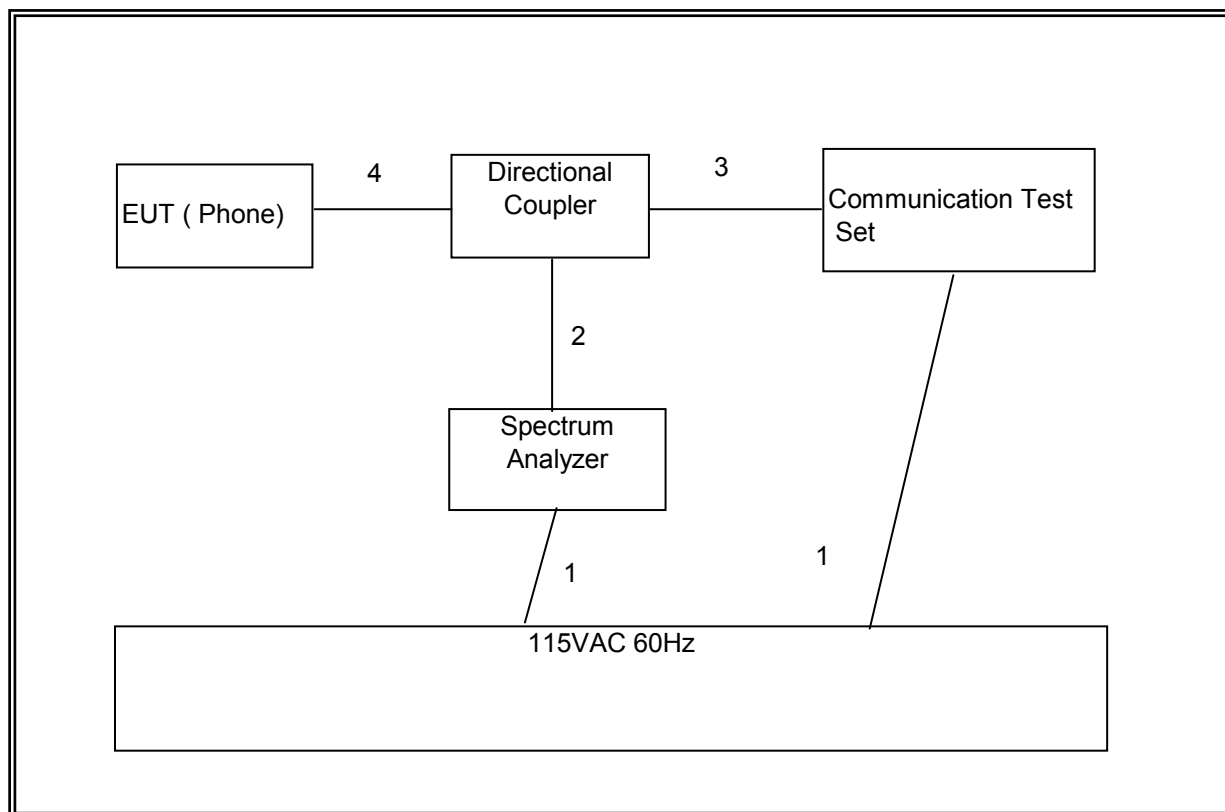
### I/O CABLES (RADIATED TEST)

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	AC	1	US 115V	Un-shielded	2m	NA
2	DC	1	DC	Un-shielded	None	NA
4	Audio	1	Earphone	Un-shielded	1m	NA
3	RF In/Out	1	Horn	Un-shielded	4m	NA

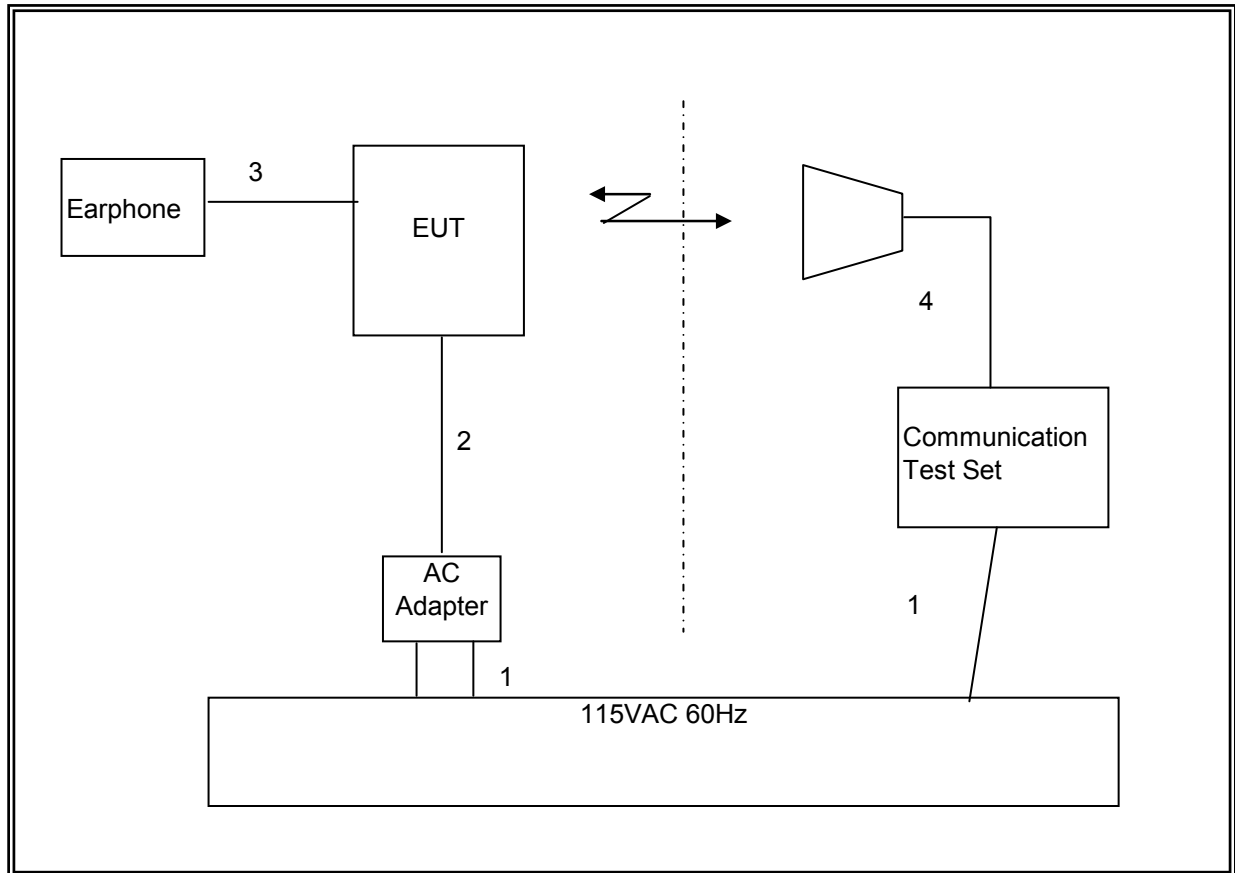
### TEST SETUP

The EUT is a stand alone device. A link is established between the EUT and the CMU200 communications test set.

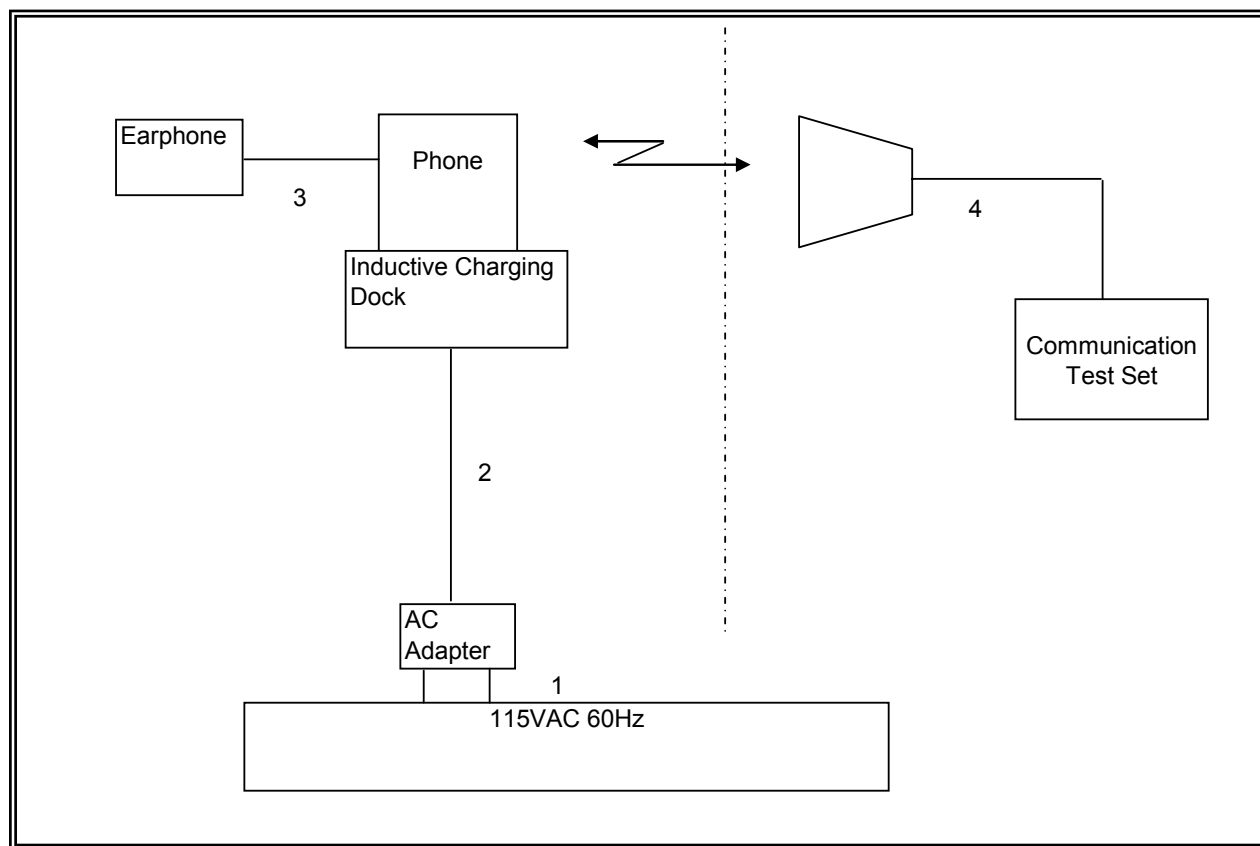
**SETUP DIAGRAM FOR CONDUCTED TESTS**



**SETUP DIAGRAM FOR RADIATED TESTS**



**SETUP DIAGRAM FOR EUT WITH INDUCTIVE CHARGING DOCK**



## 6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	Asset	Cal Due
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01063	07/14/11
Antenna, Horn, 18 GHz	EMCO	3115	C00783	06/29/11
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01011	07/12/11
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01178	08/31/10
Communication Test Set	R & S	CMU 200	C00944	12/16/10
Peak Power Meter	Agilent / HP	E4416A	C00963	12/04/11
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	01/07/12
Temperature / Humidity Chamber	Thermotron	SE 600-10-10	C00930	04/06/11
Highpass Filter, 2.7 GHz	Micro-Tronics	HPM13194	N02687	CNR
Highpass Filter, 1.5 GHz	Micro-Tronics	HPM13193	N02688	CNR
Signal Generator, 20 GHz	Agilent / HP	83732B	C00774	07/14/12
Antenna, Tuned Dipole 400~1000	ETS	3121C DB4	C00993	07/10/11

## 7. PROCEDURE USED TO ESTABLISH TEST SIGNAL

### GSM/EGSM Procedure

The following settings were used to configure the Radio Communication Tester. All measurements listed below are average power unless specified otherwise.

#### GPRS/EGPRS

Function: Menu select > GSM Mobile Station > GSM 850/900/1800/1900

Press Connection control to choose the different menus

Press RESET > choose all to reset all settings

Connection Press Signal Off to turn off the signal and change settings

Network Support > GSM+GPRS or GSM+EGPRS

Main Service > Packet Data

Service selection > Test Mode A – Auto Slot Config. off

MS Signal Press Slot Config bottom on the right twice to select and change the number of time slots and power setting

> Slot configuration > Uplink/Gamma

> 33 dBm for GPRS 850/900

> 27 dBm for EGPRS 850/900

> 30 dBm for GPRS1800/1900

> 26 dBm for EGPRS1800/1900

BS Signal Enter the same channel number for TCH channel (test channel) and BCCH channel

Frequency Offset > + 0 Hz

Mode > BCCH and TCH

BCCH Level > -85 dBm (May need to adjust if link is not stable)

BCCH Channel > choose desire test channel [Enter the same channel number for TCH channel (test channel) and BCCH channel]

Channel Type > Off

P0> 4 dB

Slot Config > Unchanged (if already set under MS Signal)

TCH > choose desired test channel

Hopping > Off

Main Timeslot > 3 (Default)

Network Coding Scheme > CS4 (GPRS) and MCS9 (EGPRS)

Bit Stream > 2E9-1PSR Bit Pattern

AF/RF Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input

Connection Press Signal On to turn on the signal and change settings

## 8. RF CONDUCTED POWER OUTPUT

RF POWER OUTPUT FOR GSM (GMSK)						
Band	Ch	Frequency	Conducted output power (dBm)			
			Average		Peak	
GSM850	128	824.2	31.67		32.94	
	190	836.6	32.07		33.18	
	251	848.8	32.31		33.34	
GSM1900	512	1850.2	29.26		29.67	
	661	1880	29.41		29.58	
	810	1909.8	29.18		29.46	
RF POWER OUTPUT FOR GPRS (GMSK) - Coding scheme: MCS4						
Band	Ch	Frequency	Conducted output power (dBm)			
			Average		Peak	
			1 slot	2 slot	1 slot	2 slot
GSM850	128	824.2	31.66	29.53	32.93	32.60
	190	836.6	32.07	29.57	33.16	32.95
	251	848.8	32.27	29.60	33.05	32.86
GSM1900	512	1850.2	29.37	29.23	29.63	29.45
	661	1880	29.47	29.40	29.56	29.50
	810	1909.8	29.05	29.03	29.43	29.35

RF POWER OUTPUT FOR EGPRS (8PSK) - Coding scheme: MCS9						
Band	Ch	Frequency	Conducted output power (dBm)			
			Average		Peak	
			1 slot	2 slot	1 slot	2 slot
GSM850	128	824.2	27.49	27.48	<b>31.09</b>	30.85
	190	836.6	27.46	27.44	<b>31.03</b>	30.80
	251	848.8	27.39	27.38	<b>30.87</b>	30.87
GSM1900	512	1850.2	26.91	26.88	<b>29.57</b>	29.43
	661	1880	26.93	26.91	<b>29.44</b>	29.38
	810	1909.8	26.79	26.78	<b>29.35</b>	29.27



## 9. CONDUCTED TEST RESULTS

### 9.1. OCCUPIED BANDWIDTH

#### LIMITS

None; for reporting purposes only.

#### TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the -26 dB bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal -26 dB bandwidth function is utilized.

#### RESULTS

##### CELL,GSM Modulation

Channel	Frequency (MHz)	99% BW (kHz)	-26dB BW (kHz)
Low	824.20	240.870	291.162
Middle	836.60	236.405	267.512
High	848.80	239.142	268.565

##### CELL,EGPRS Modulation

Channel	Frequency (MHz)	99% BW (kHz)	-26dB BW (kHz)
Low	824.20	247.944	311.416
Middle	836.60	253.712	302.582
High	848.80	242.825	302.262

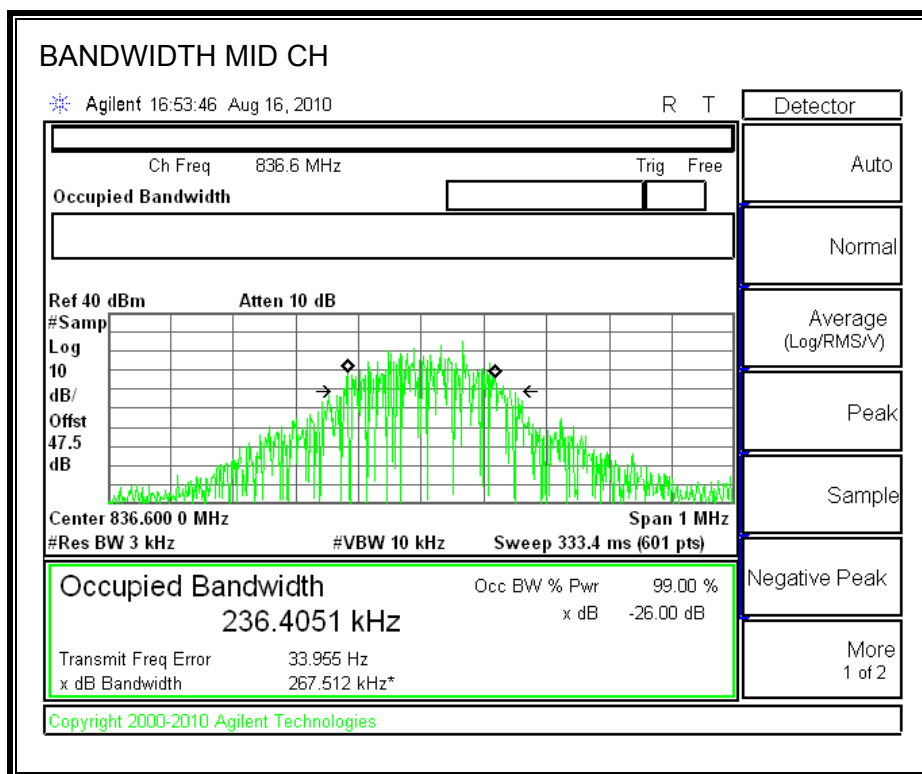
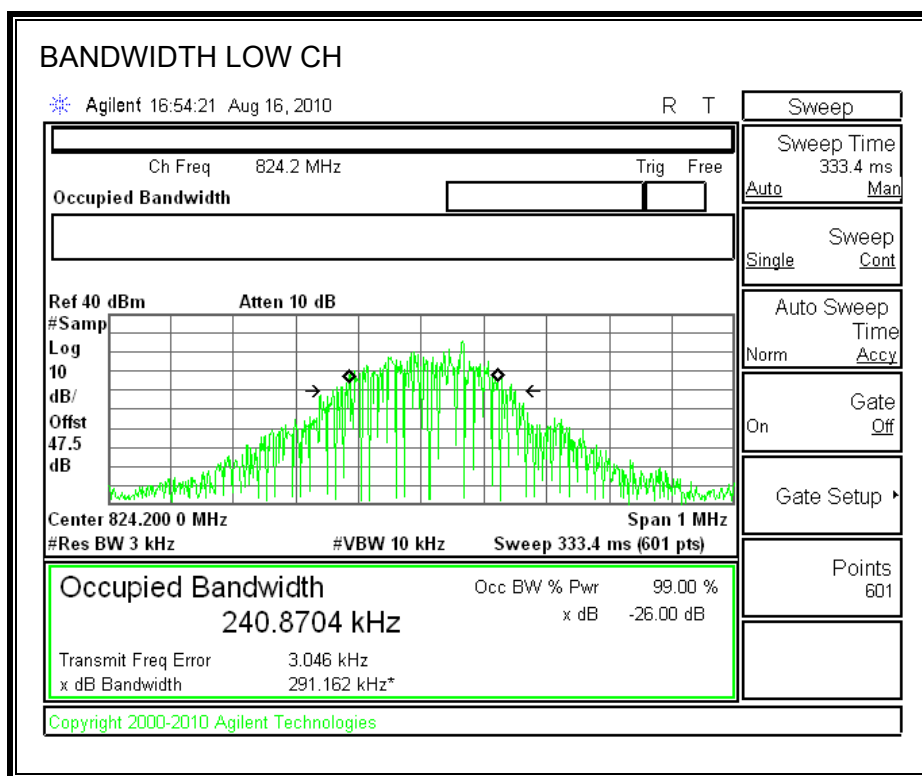
##### PCS, GSM Modulation

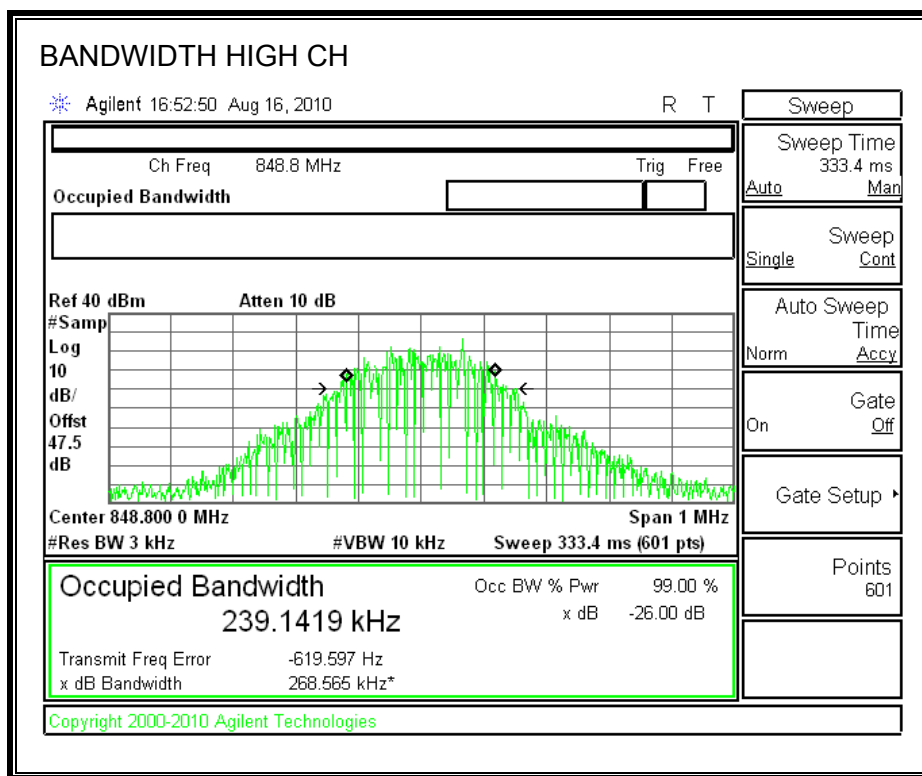
Channel	Frequency (MHz)	99% BW (kHz)	-26dB BW (kHz)
Low	1850.20	242.794	296.477
Middle	1880.00	249.768	319.976
High	1909.80	233.745	308.304

##### PCS, EGPRS Modulation

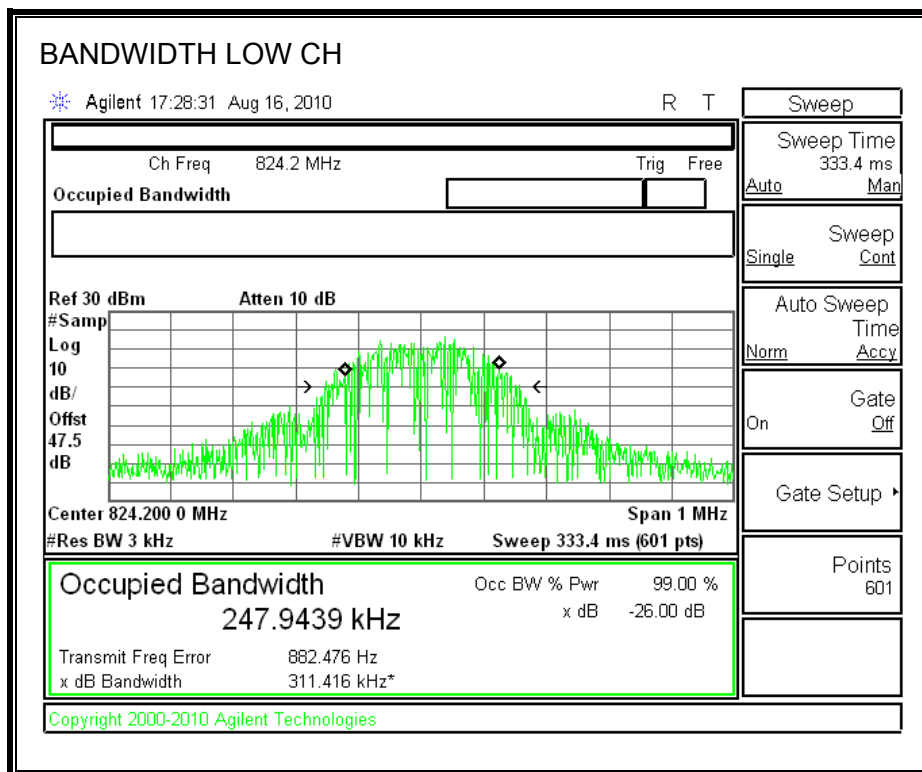
Channel	Frequency (MHz)	99% BW (kHz)	-26dB BW (kHz)
Low	1850.20	260.584	285.593
Middle	1880.00	242.817	281.530
High	1909.80	251.187	292.309

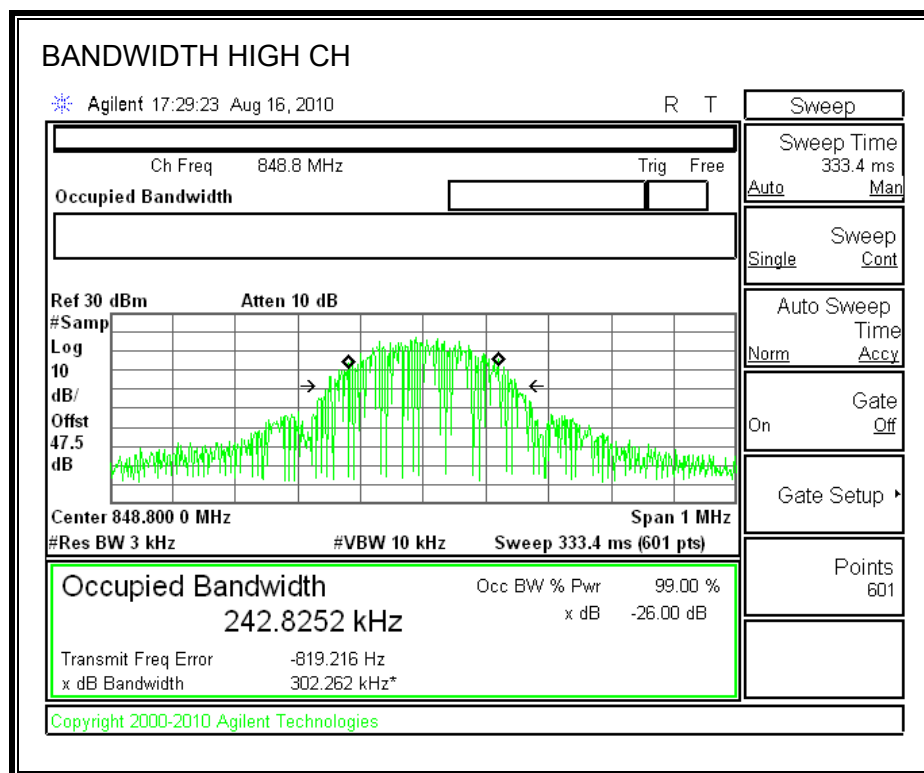
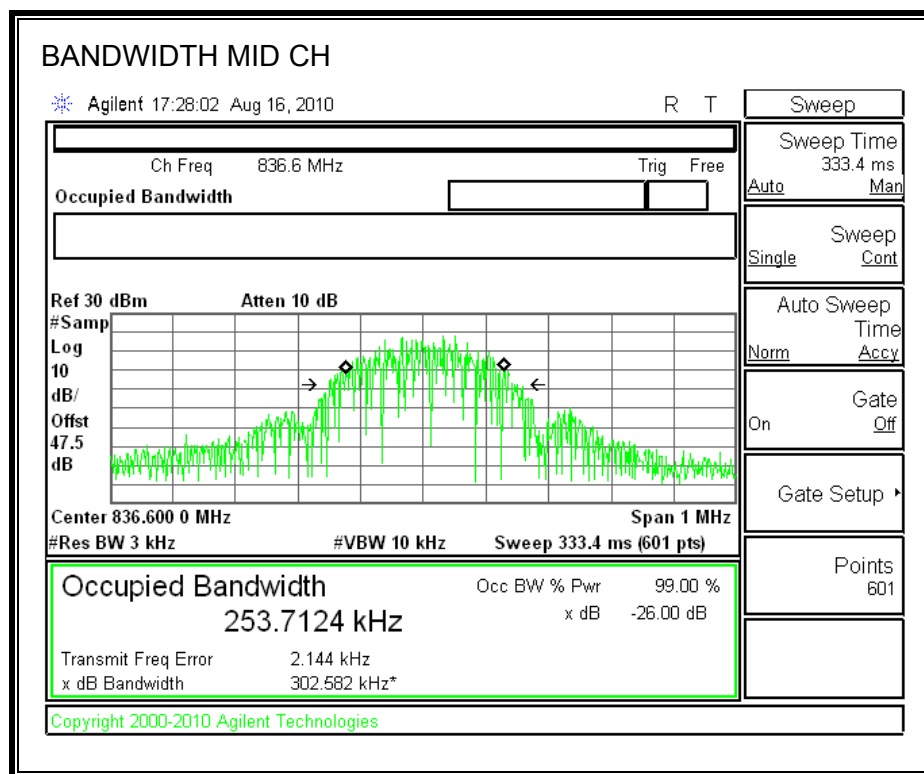
# CELL, GSM850 BANDWIDTH



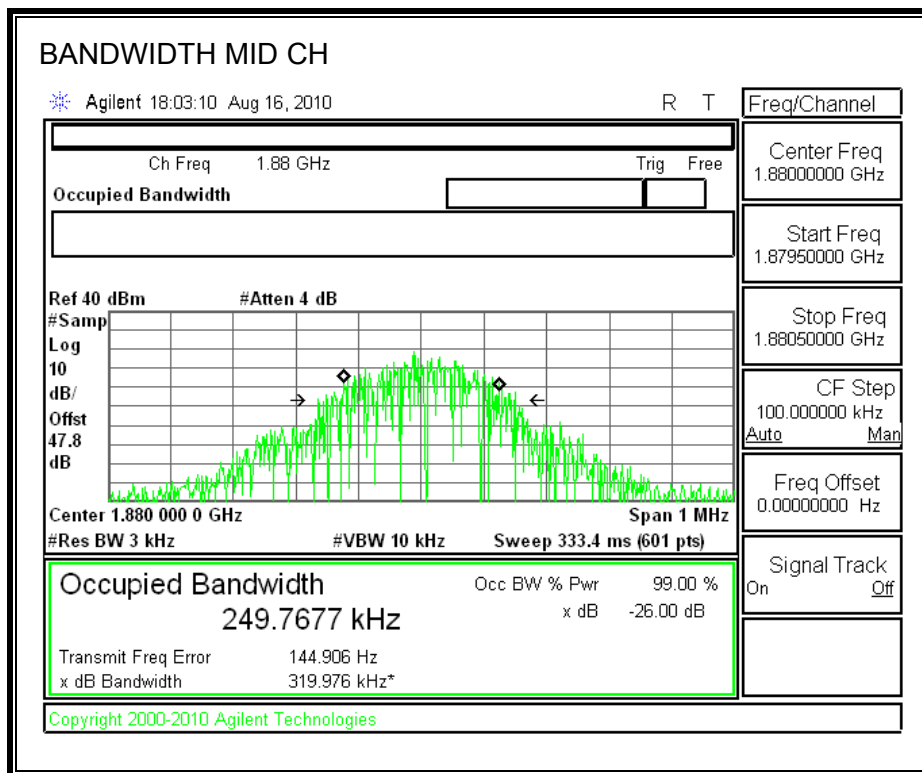
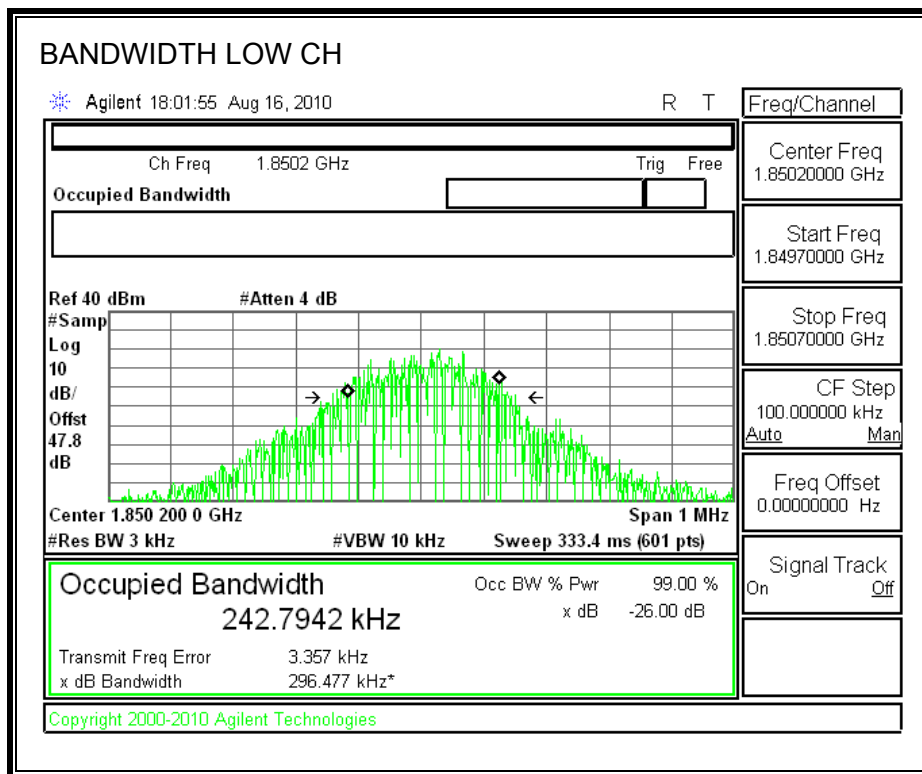


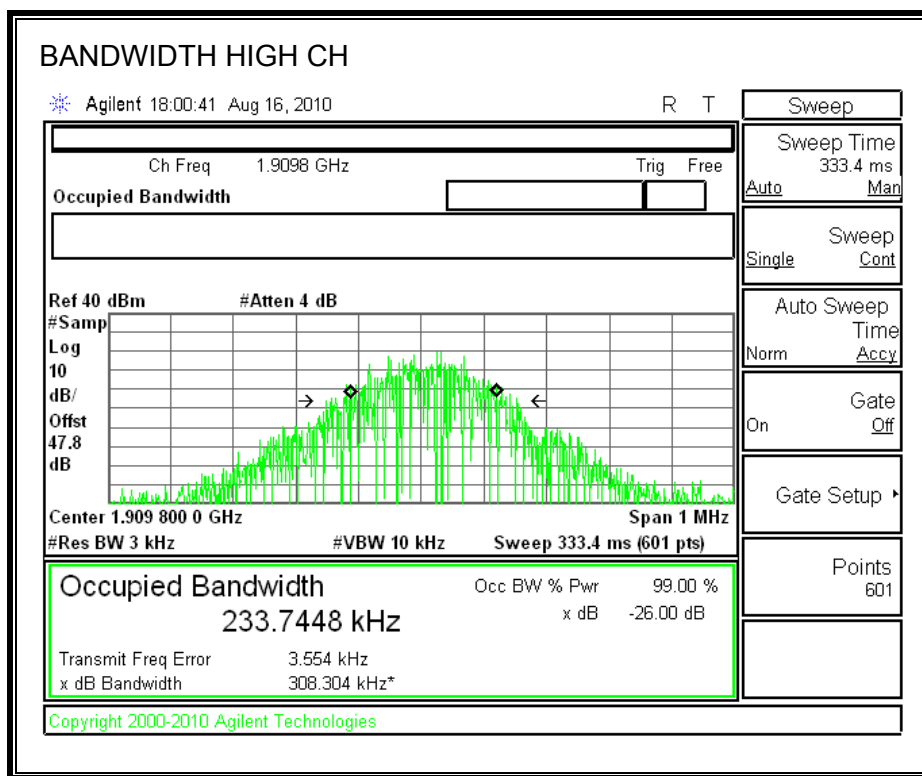
**CELL, EGPRS850 BANDWIDTH**



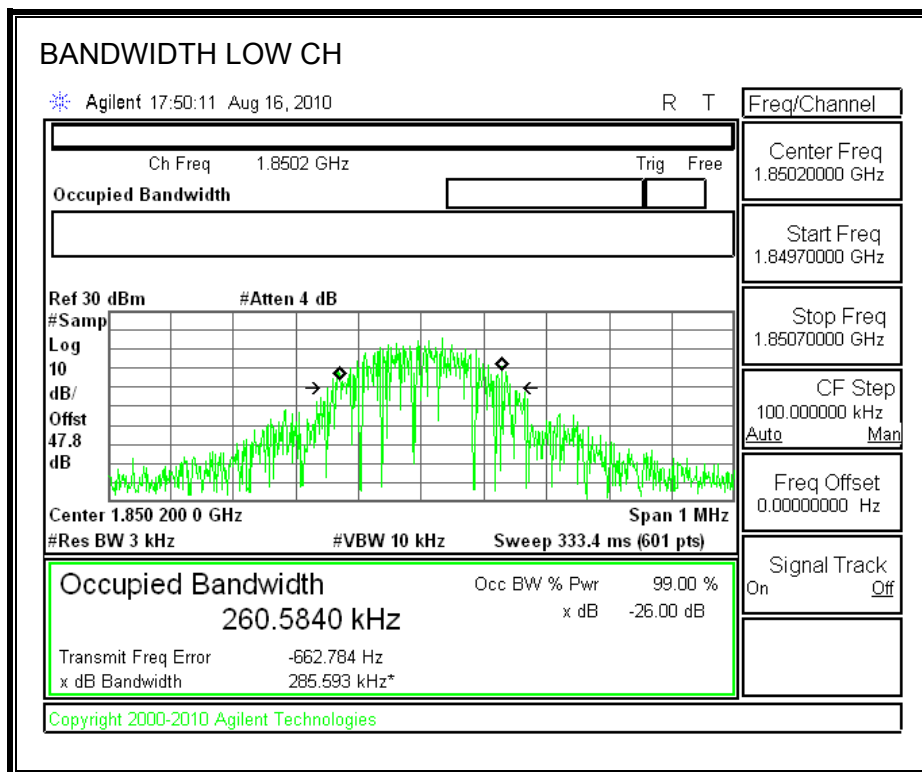


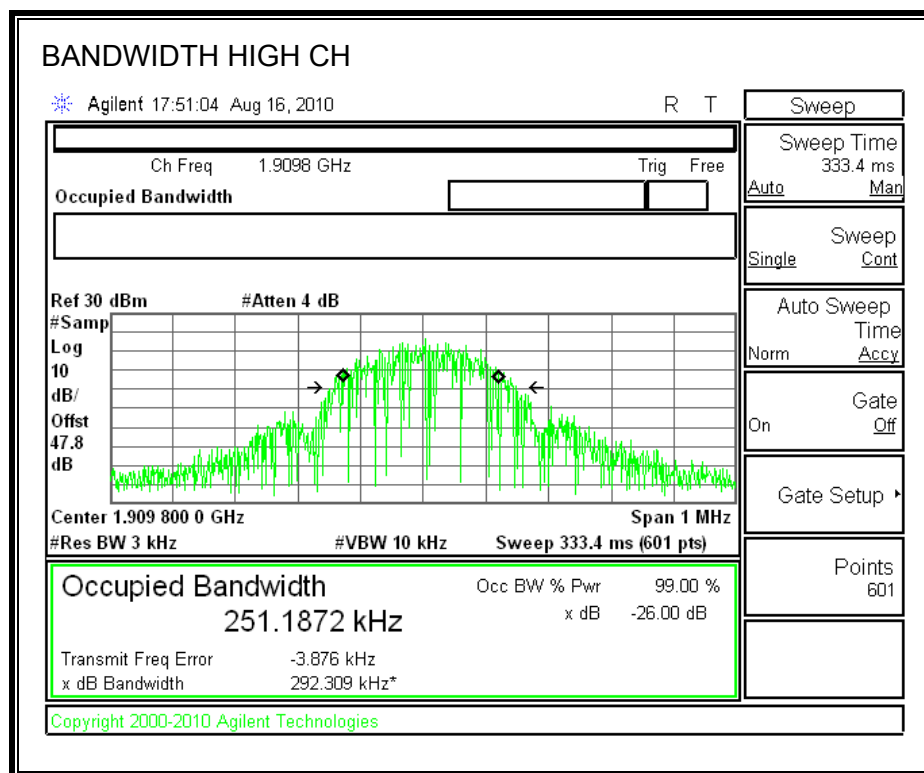
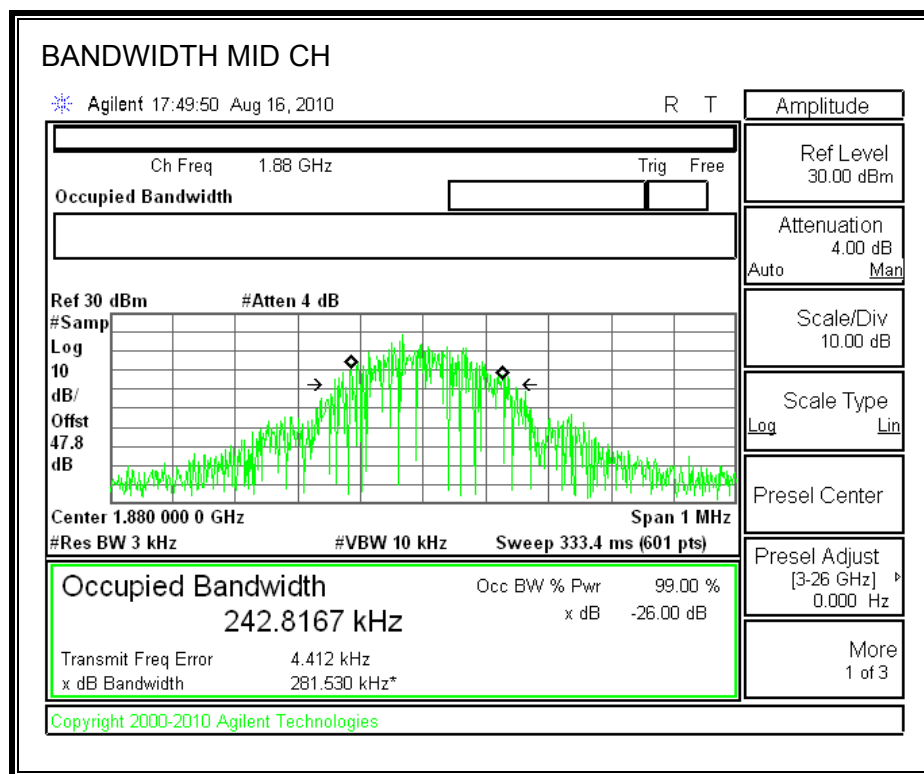
**PCS, GSM1900 BANDWIDTH**





**PCS, EGPRS1900 BANDWIDTH**





## **9.2. SPURIOUS EMISSION AT ANTENNA TERMINAL**

### **LIMIT**

§22.917 (e) and §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

### **TEST PROCEDURE**

ANSI / TIA / EIA 603 Clause 3.2.13 & FCC 22.917 (h)

### **RESULTS**

- 

### **MODES TESTED**

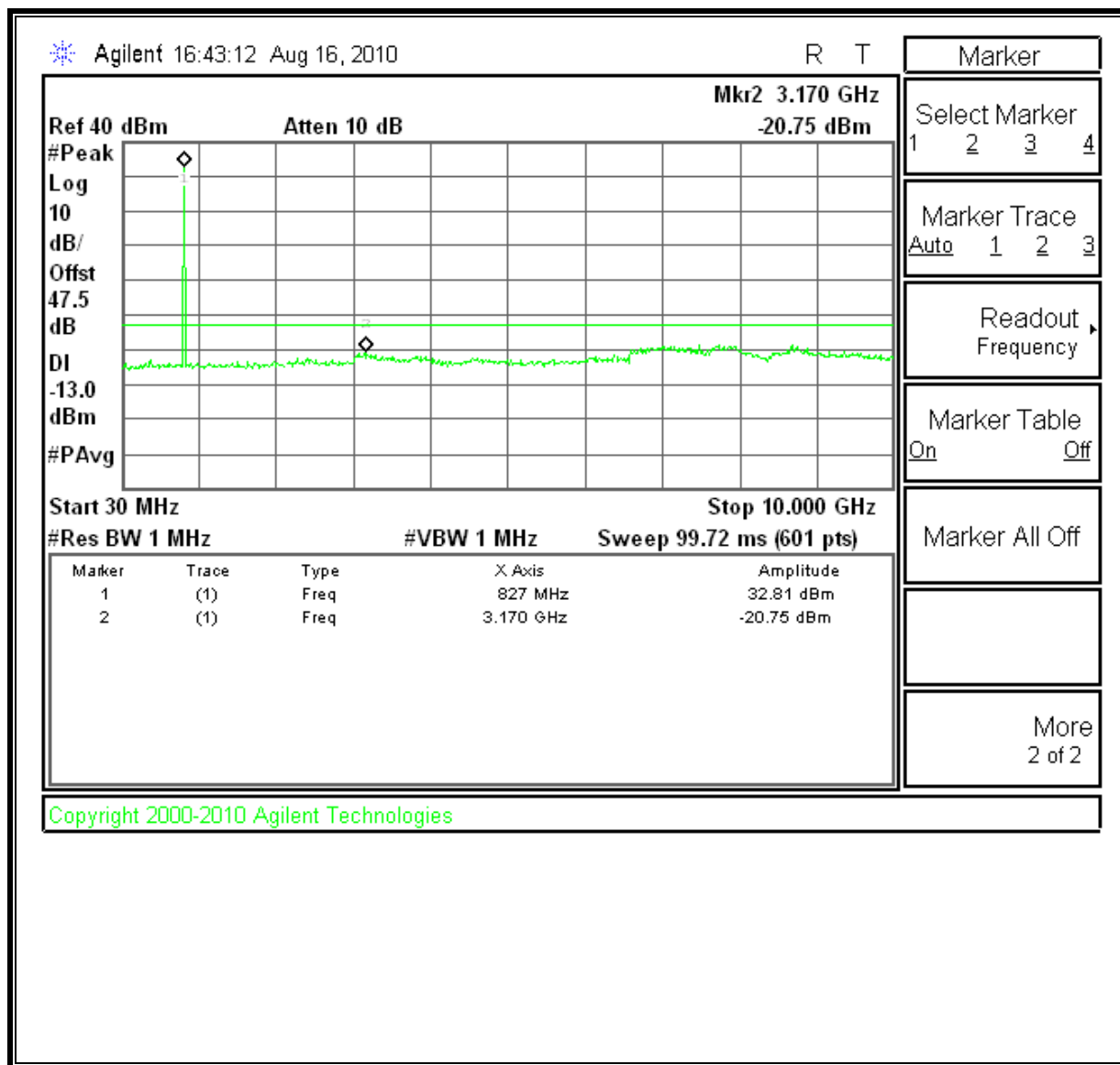
- GSM - GSM (GSMK) & EGPRS (8PSK)

### **RESULTS**

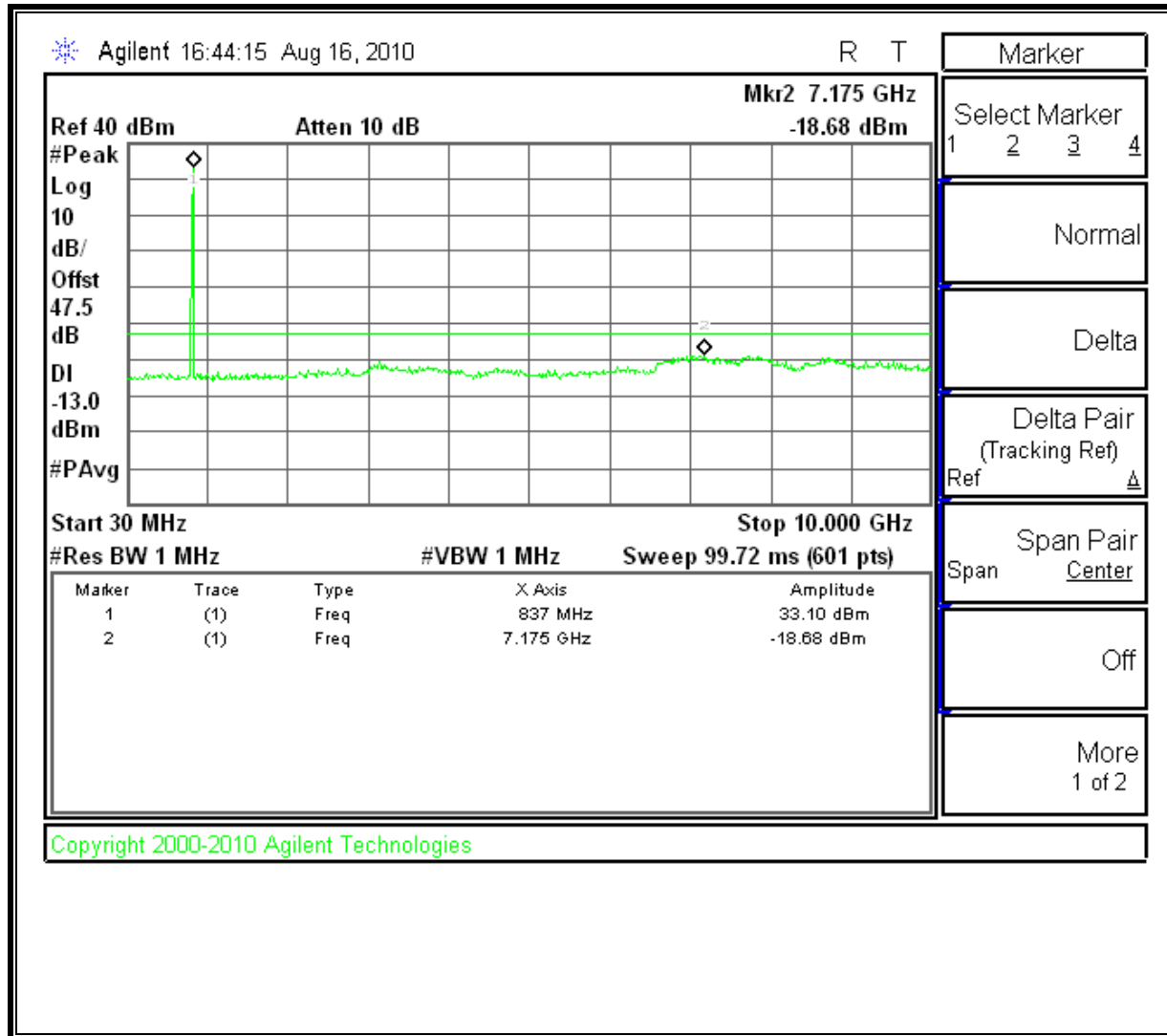


**CELL, GSM850 MODULATION:**

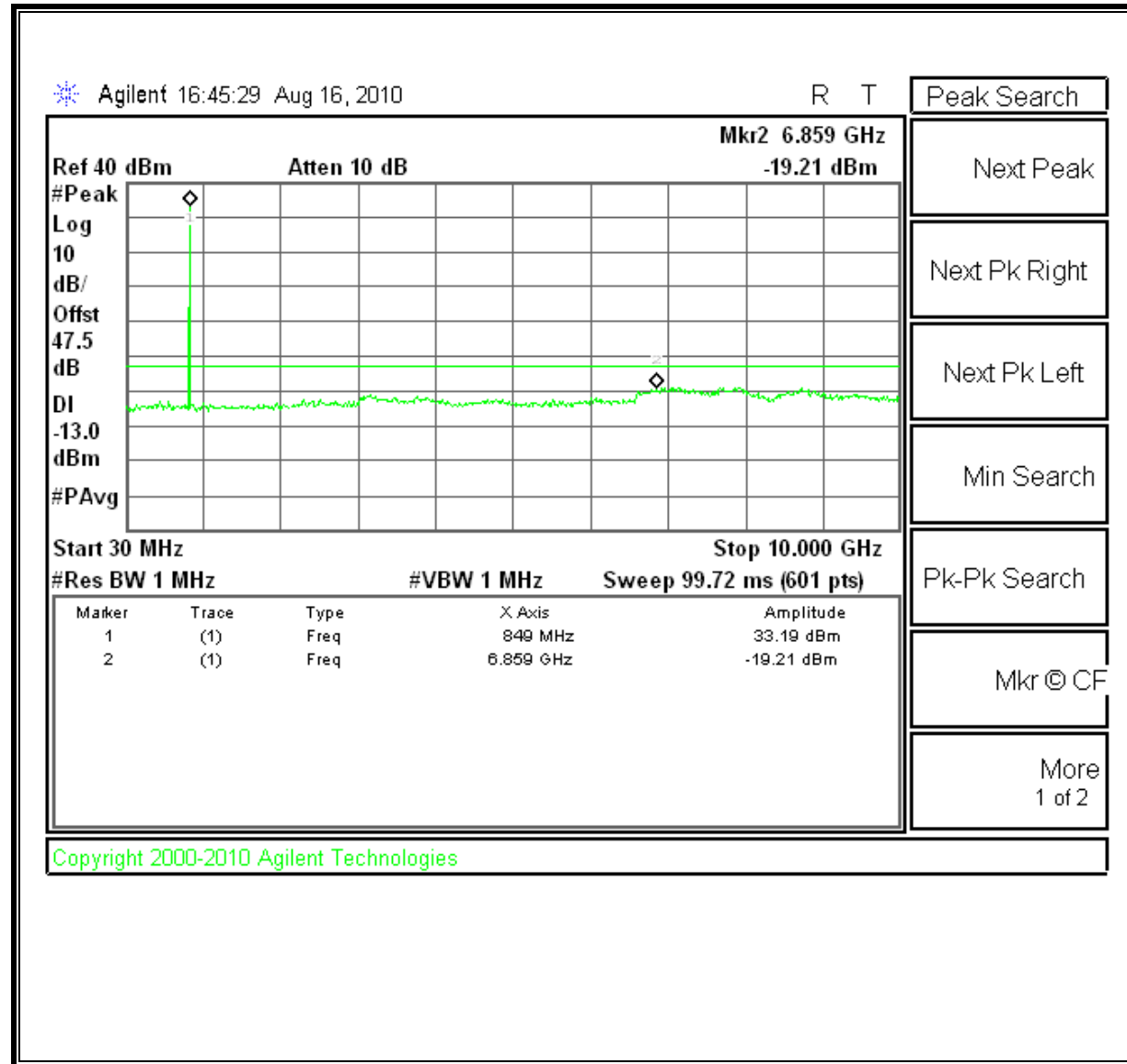
**Low Channel, Out-Of-Band Emissions**



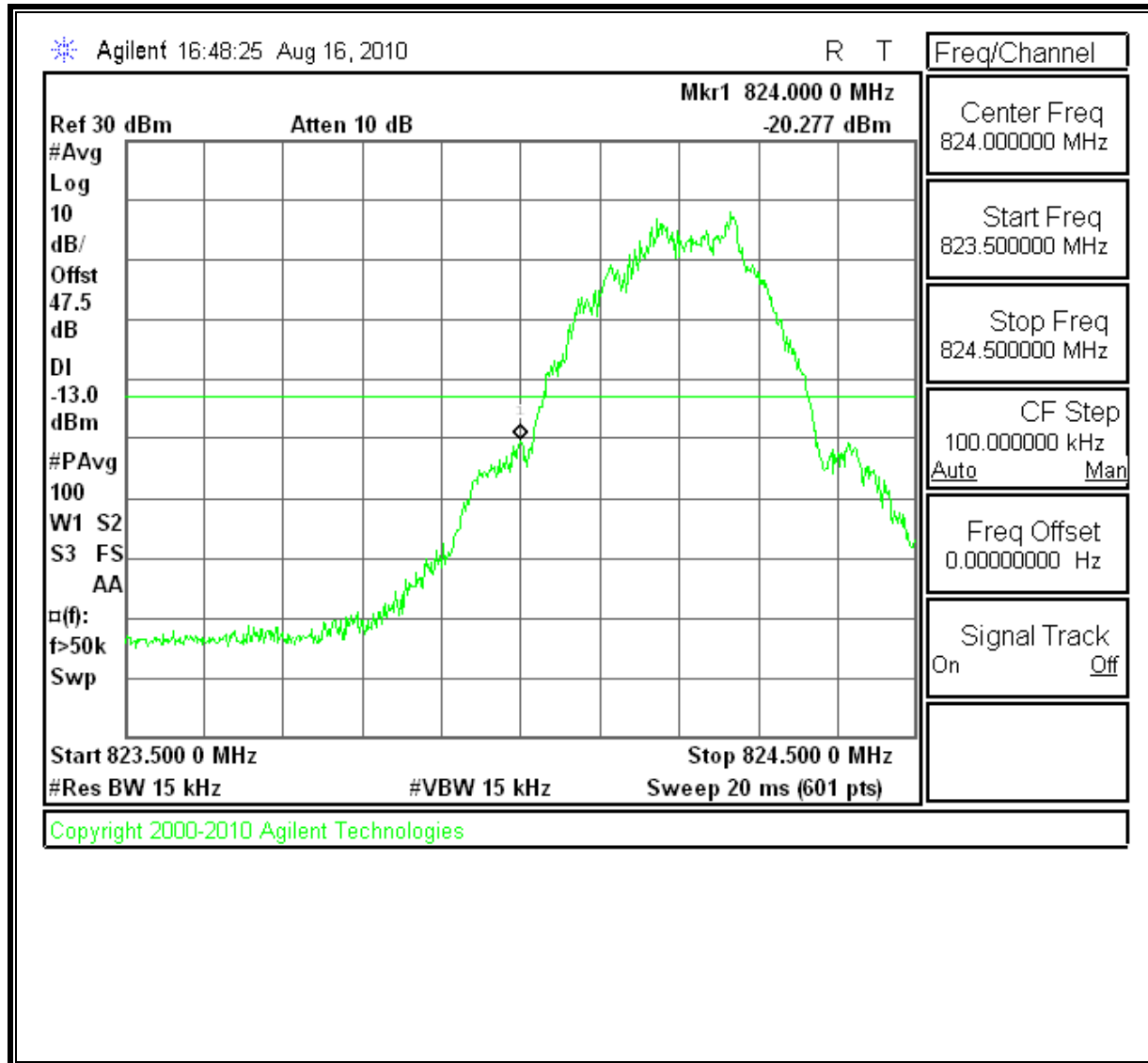
**Mid Channel, Out-Of-Band Emissions**



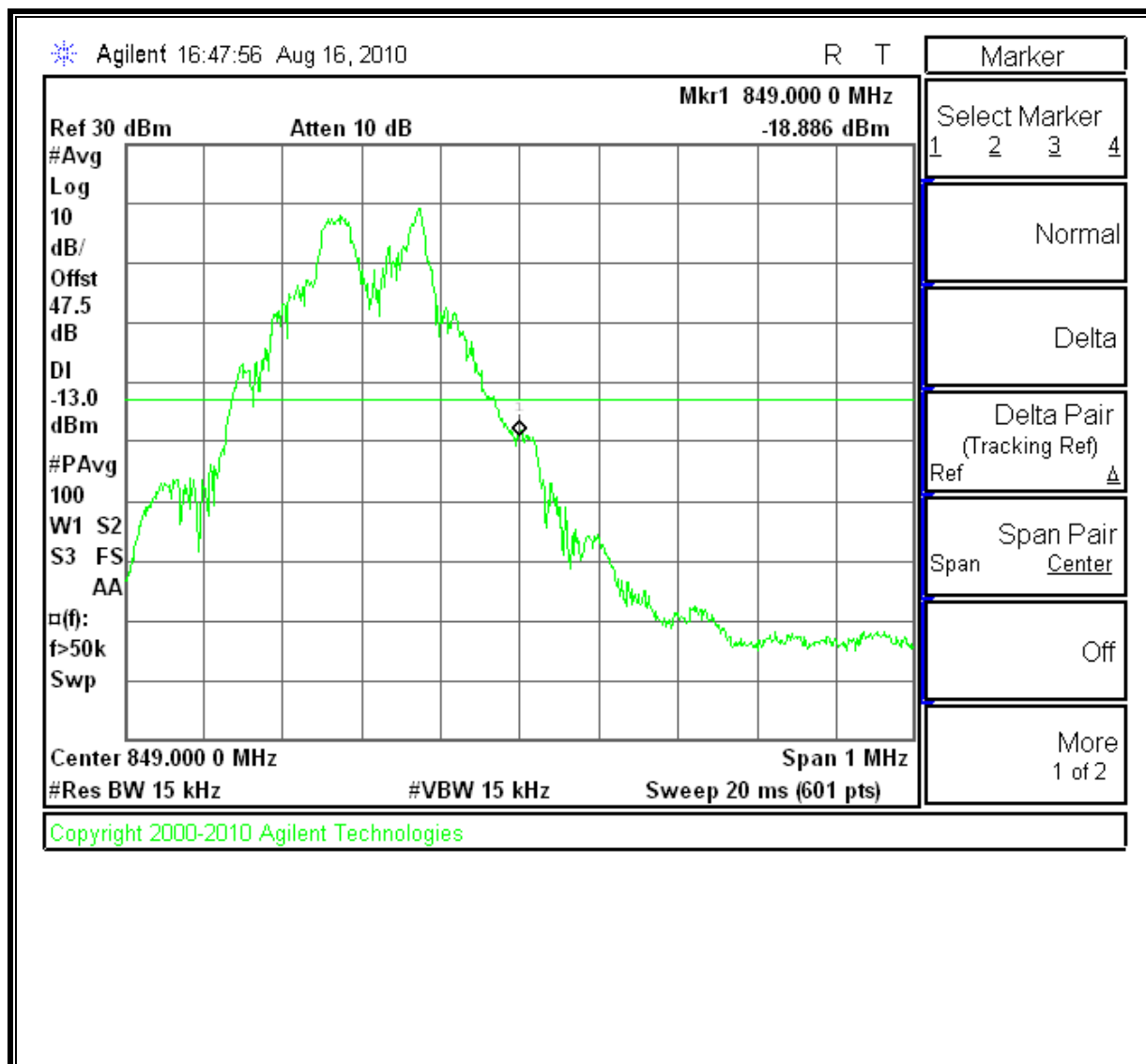
# **High Channel, Out-Of-Band Emissions**



**Low Channel Band Edge**

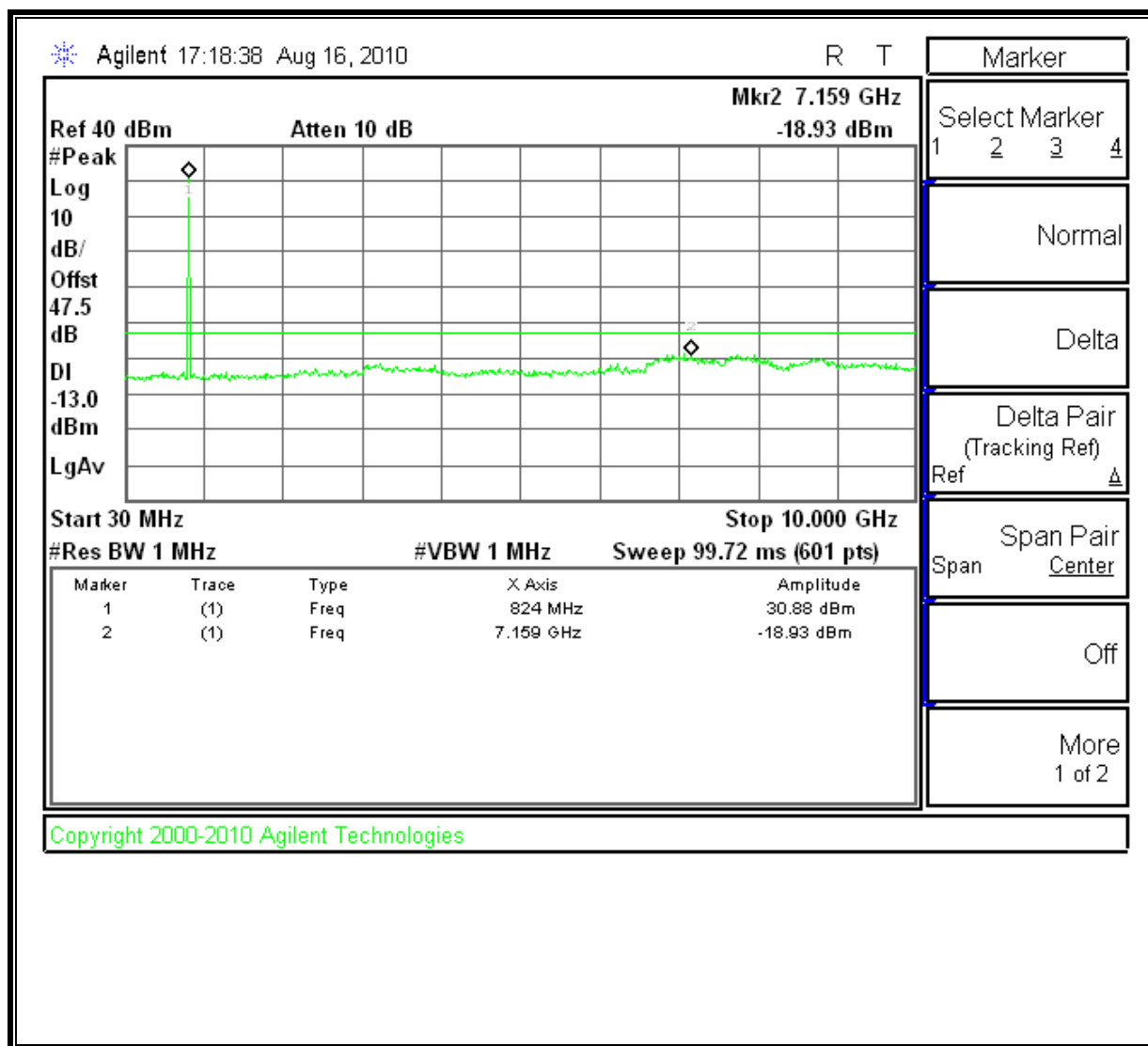


# High Channel Band Edge

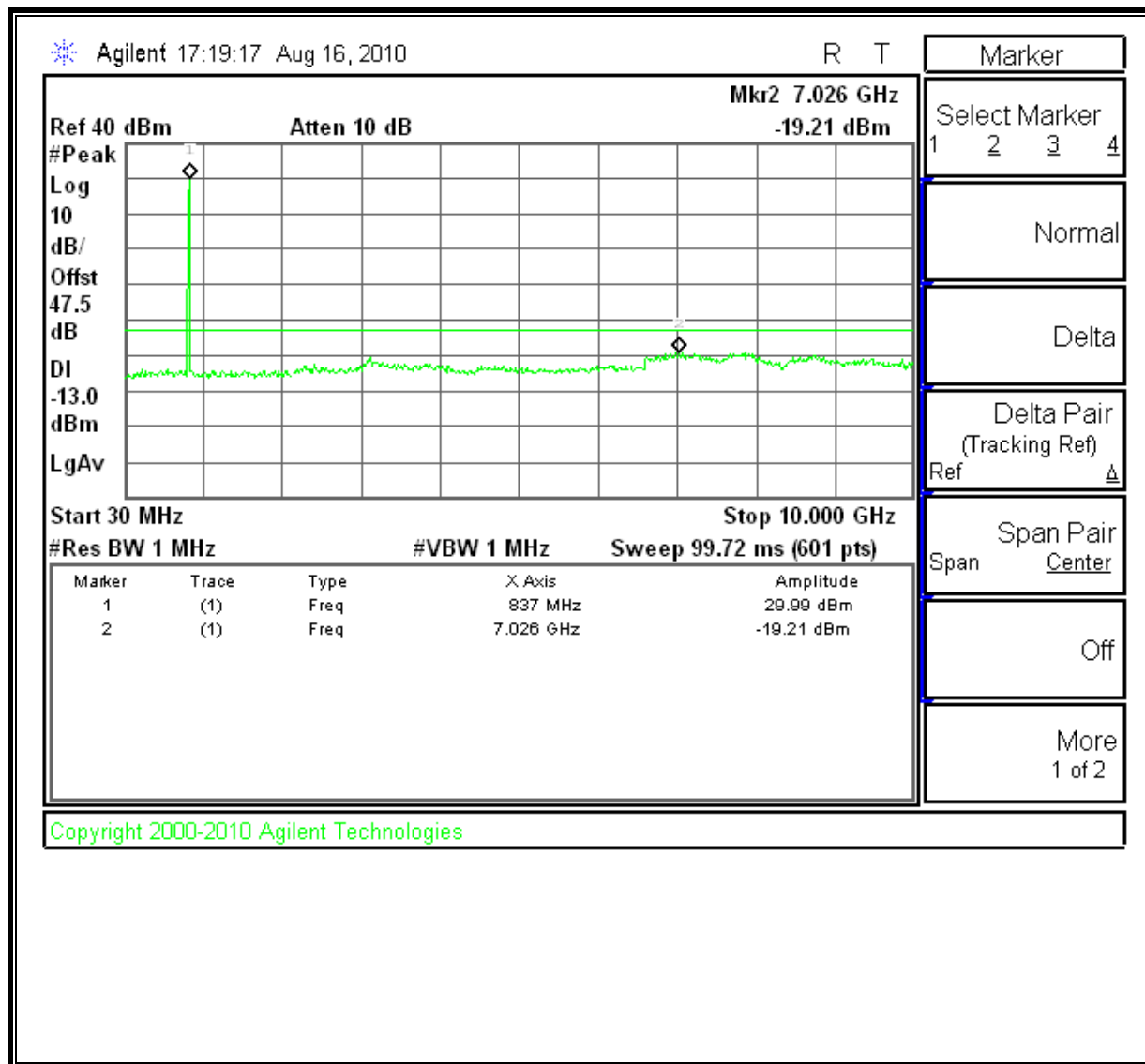


**CELL, EGPRS MODULATION:**

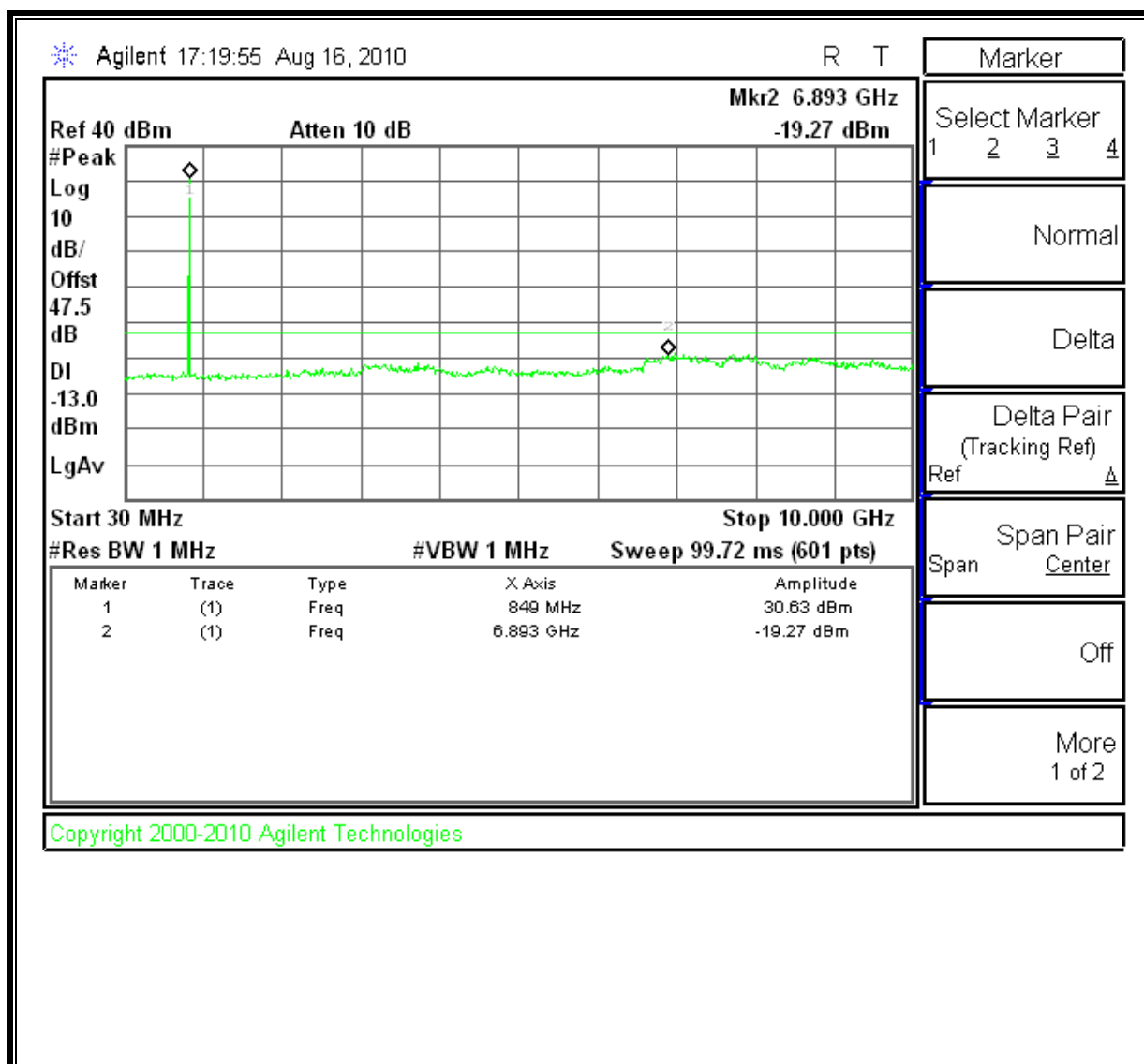
**Low Channel, Out-Of-Band Emissions**



**Mid Channel, Out-Of-Band Emissions**

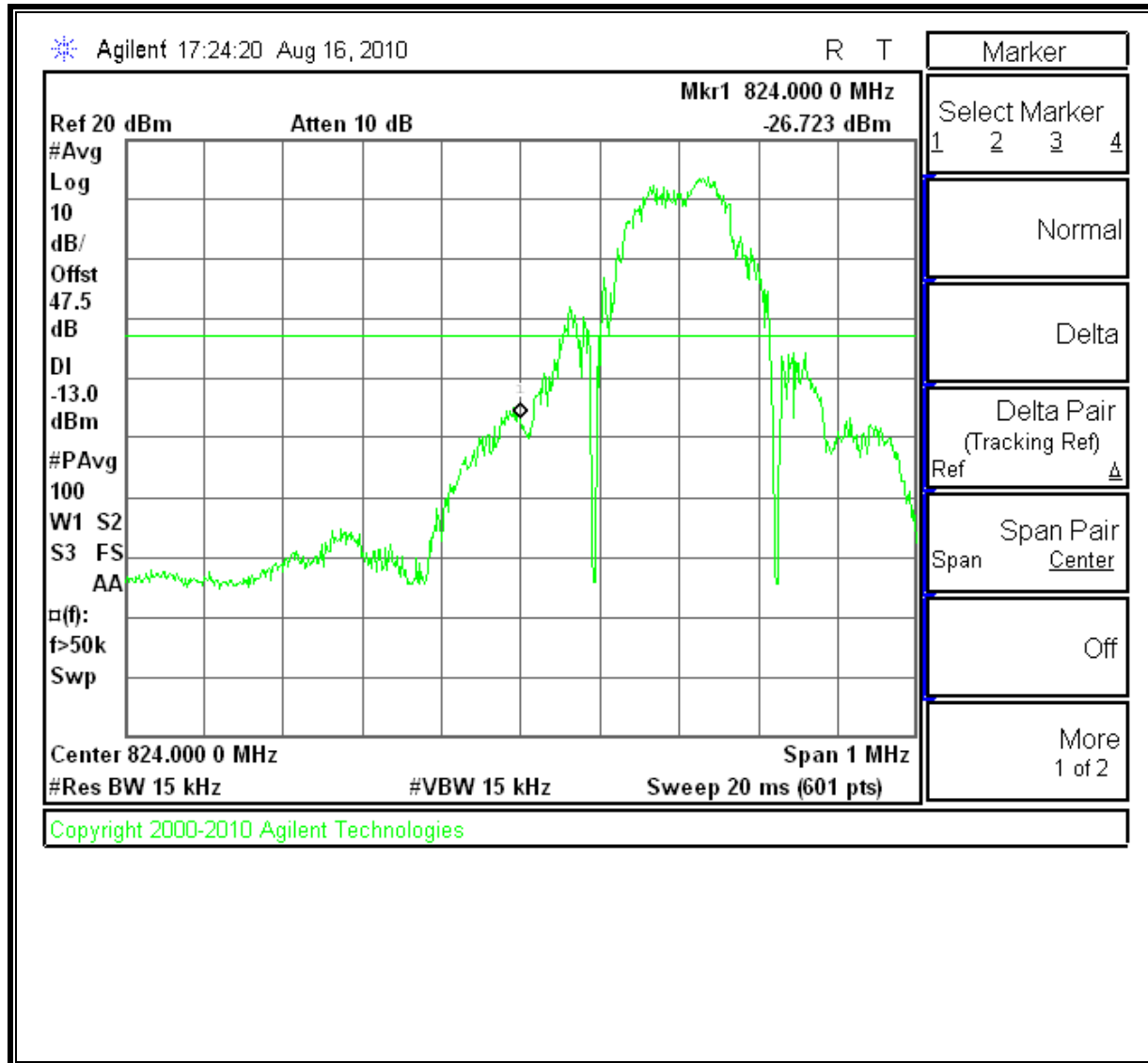


# **High Channel, Out-Of-Band Emissions**

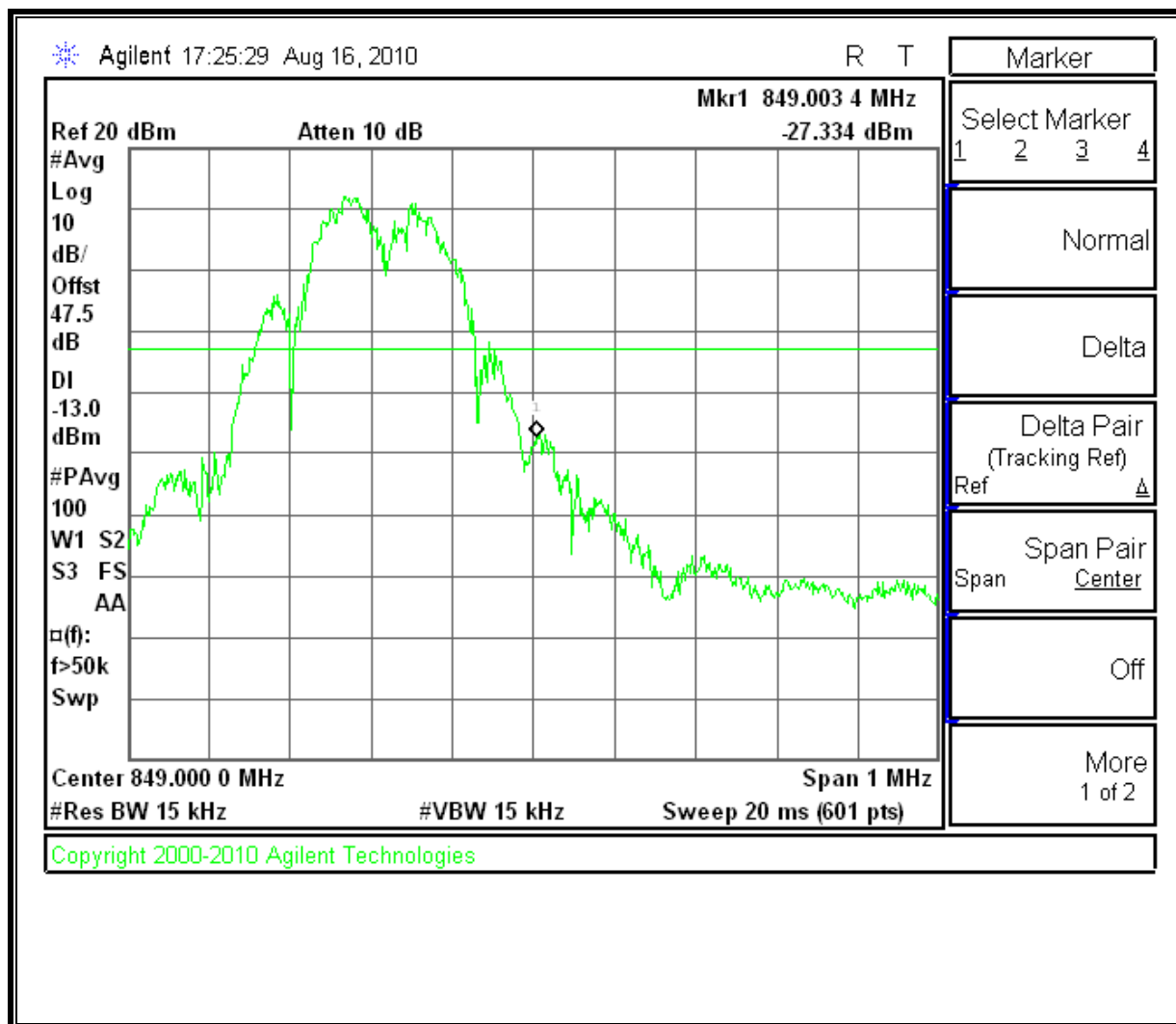




# Low Channel Band Edge

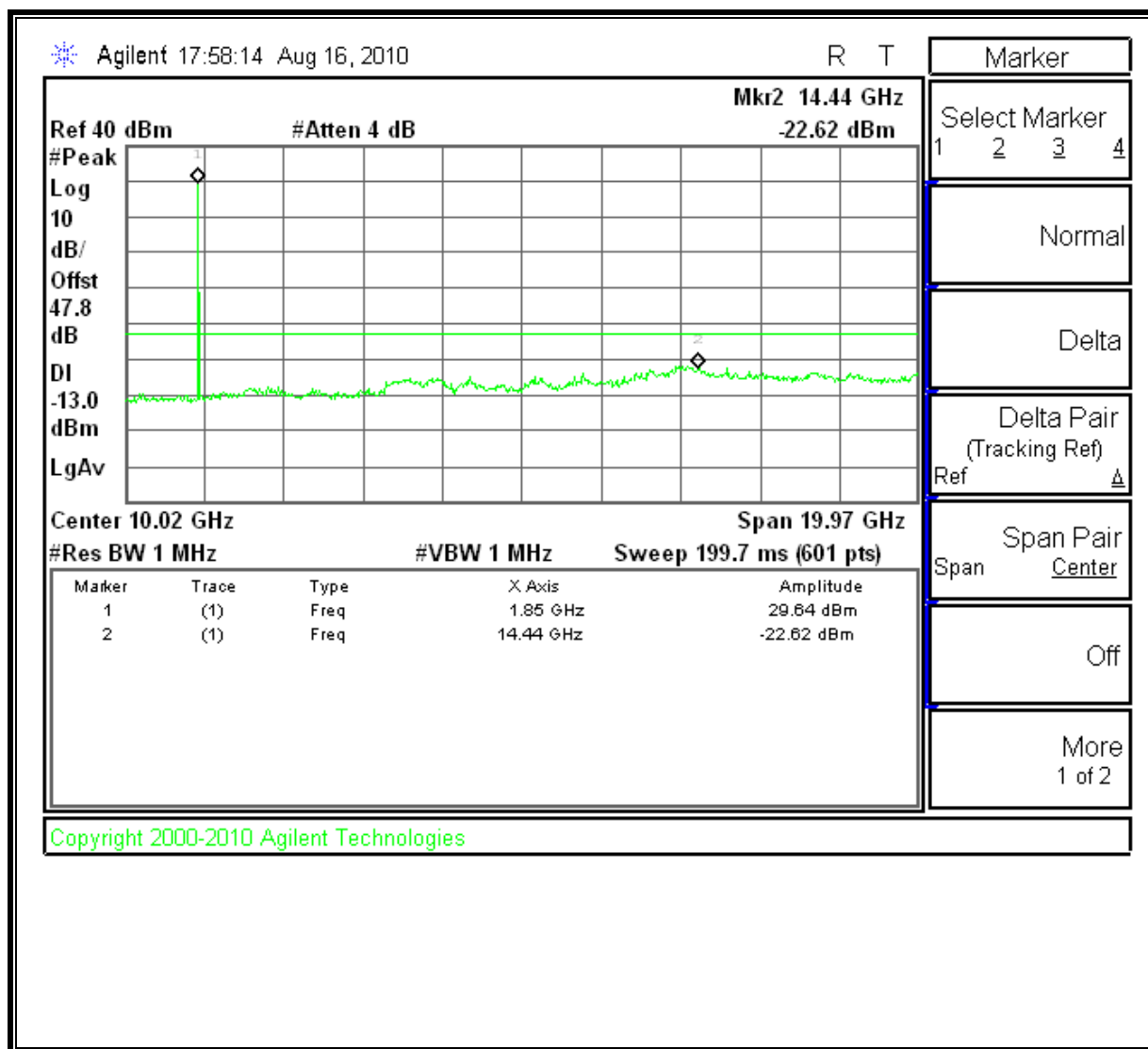


# High Channel Band Edge

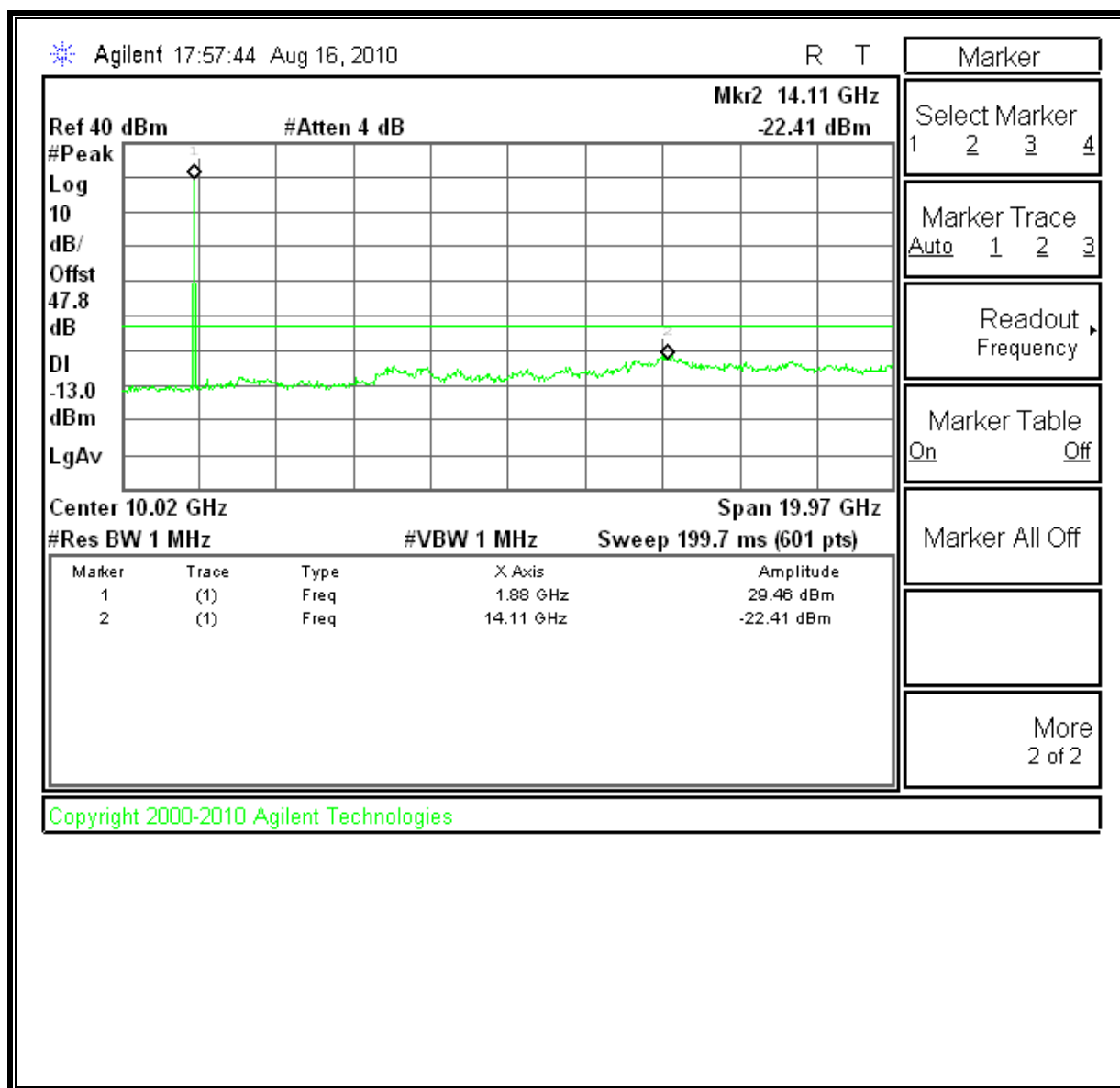


## PCS GSM1900 MODULATION RESULTS

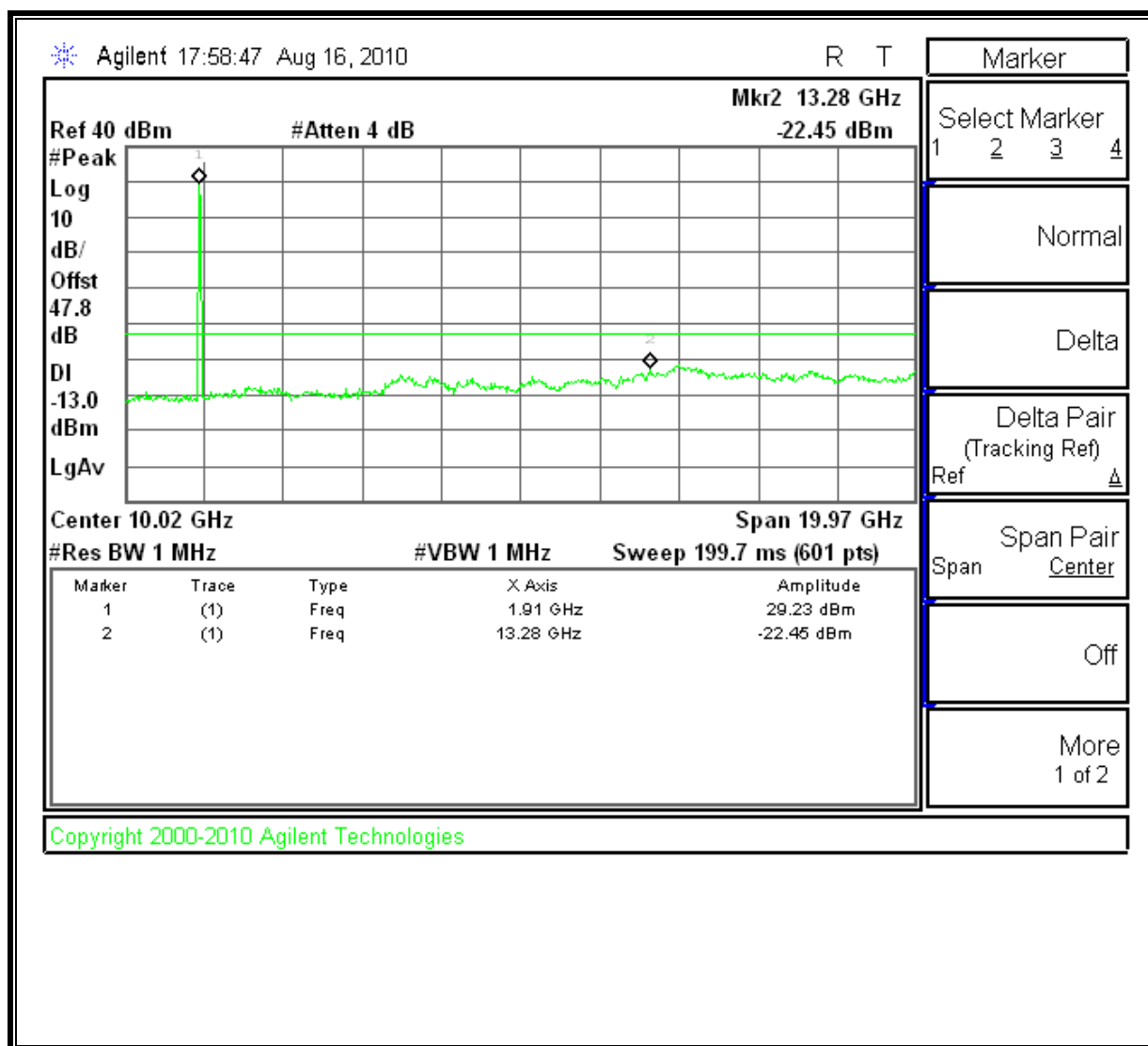
### Low Channel, Out-Of-Band Emissions



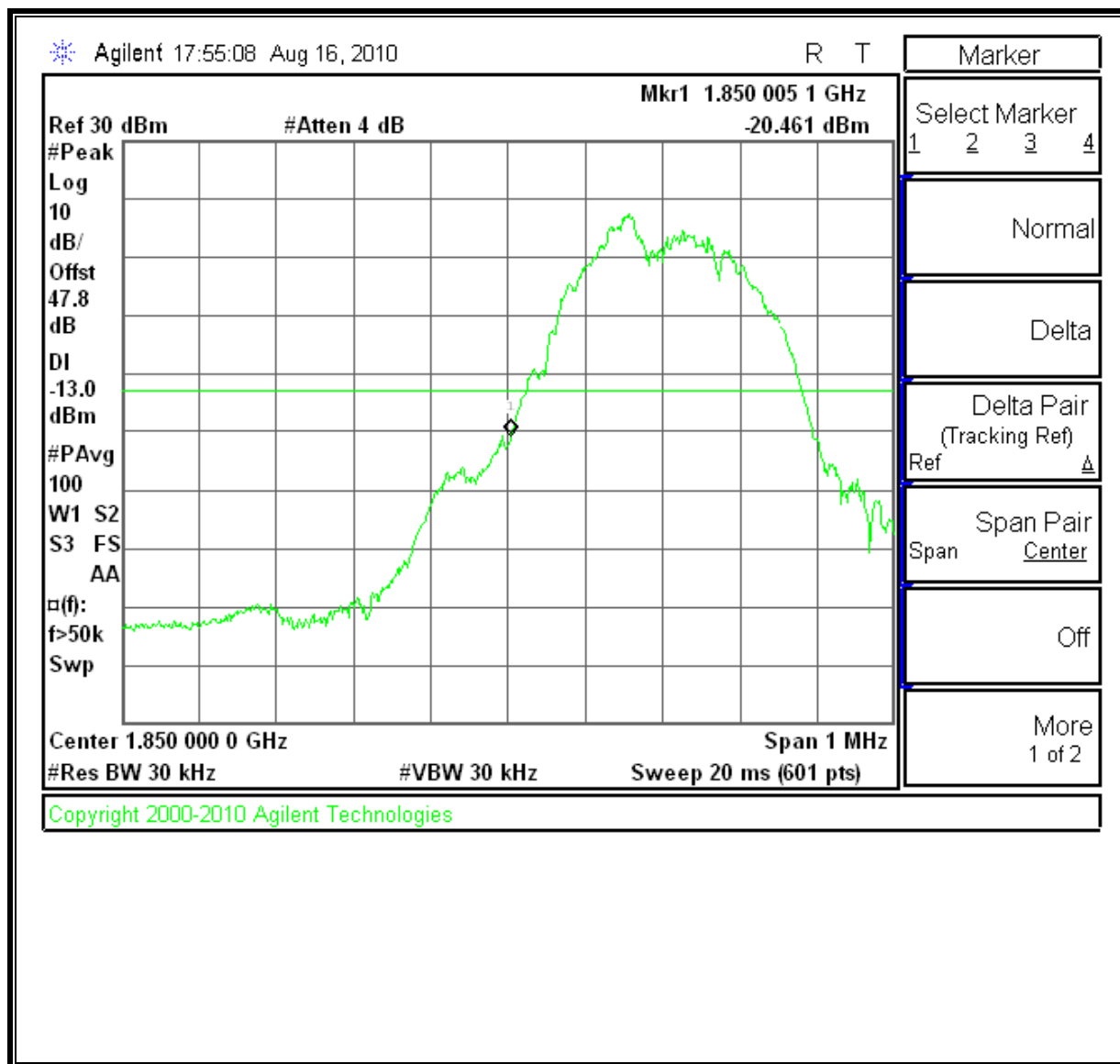
**Mid Channel, Out-Of-Band Emissions**



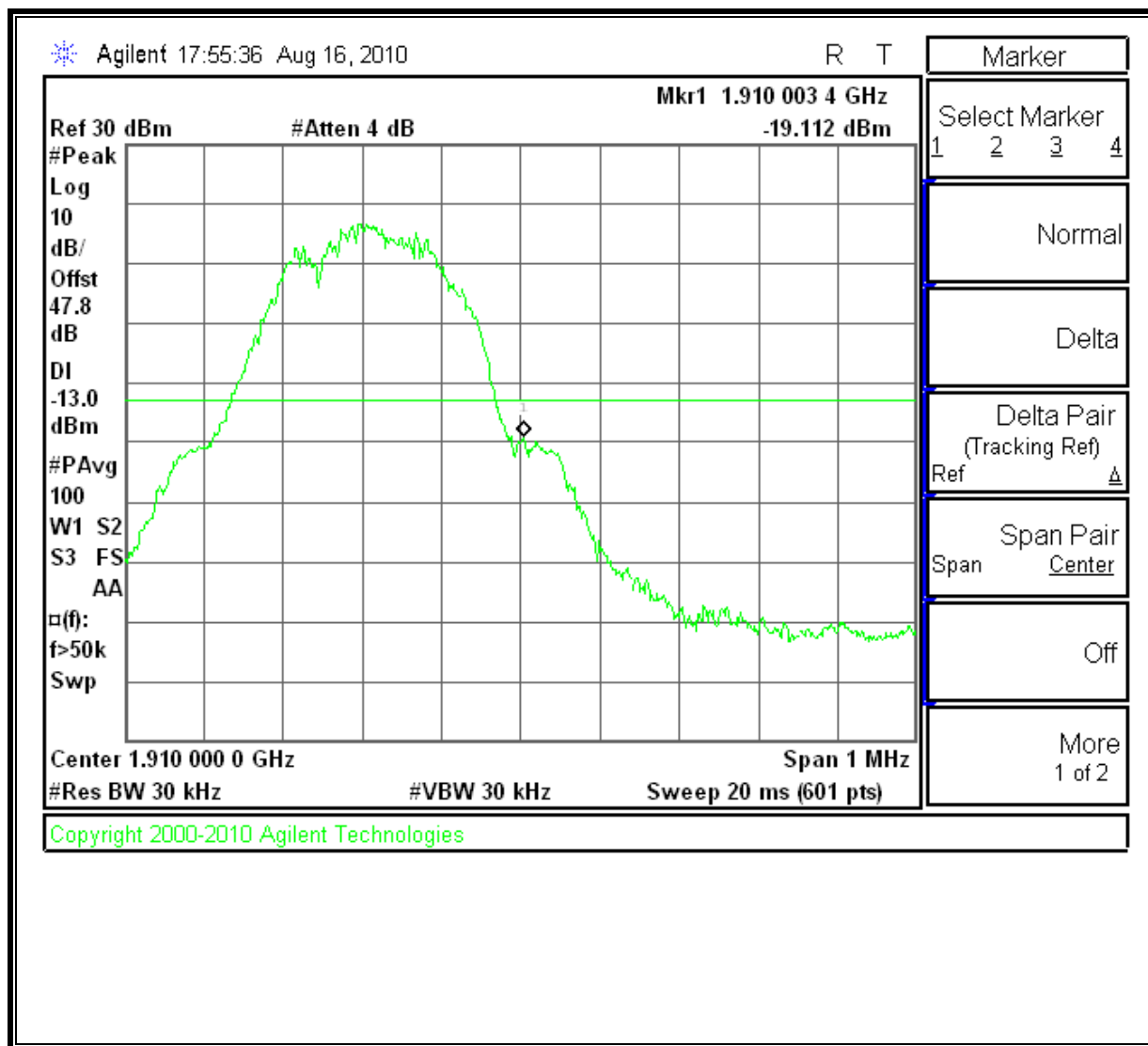
# **High Channel, Out-Of-Band Emissions**



**Low Channel Band Edge**

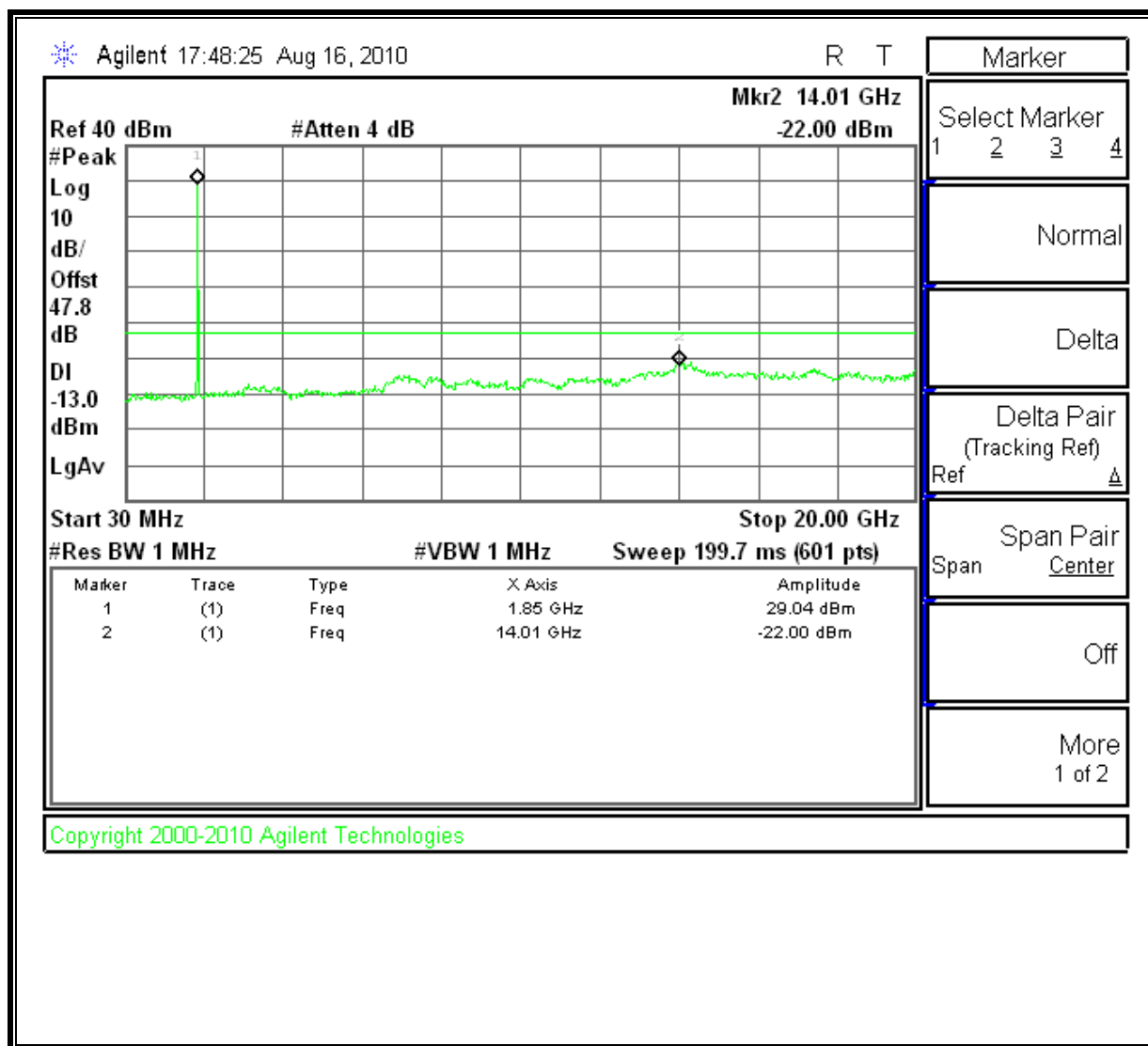


# High Channel Band Edge



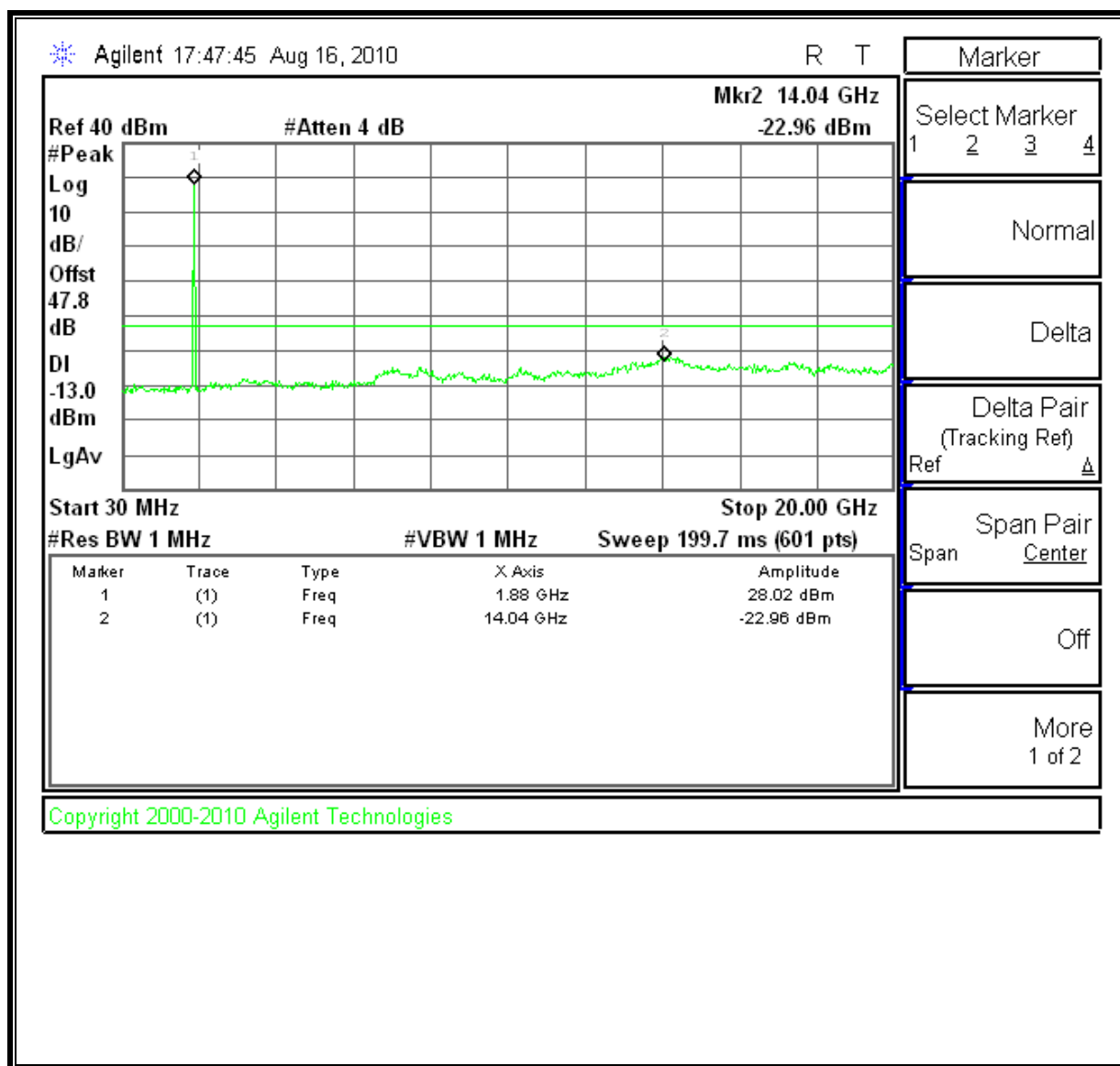
## PCS EGPRS1900 MODULATION RESULTS

### Low Channel, Out-Of-Band Emissions

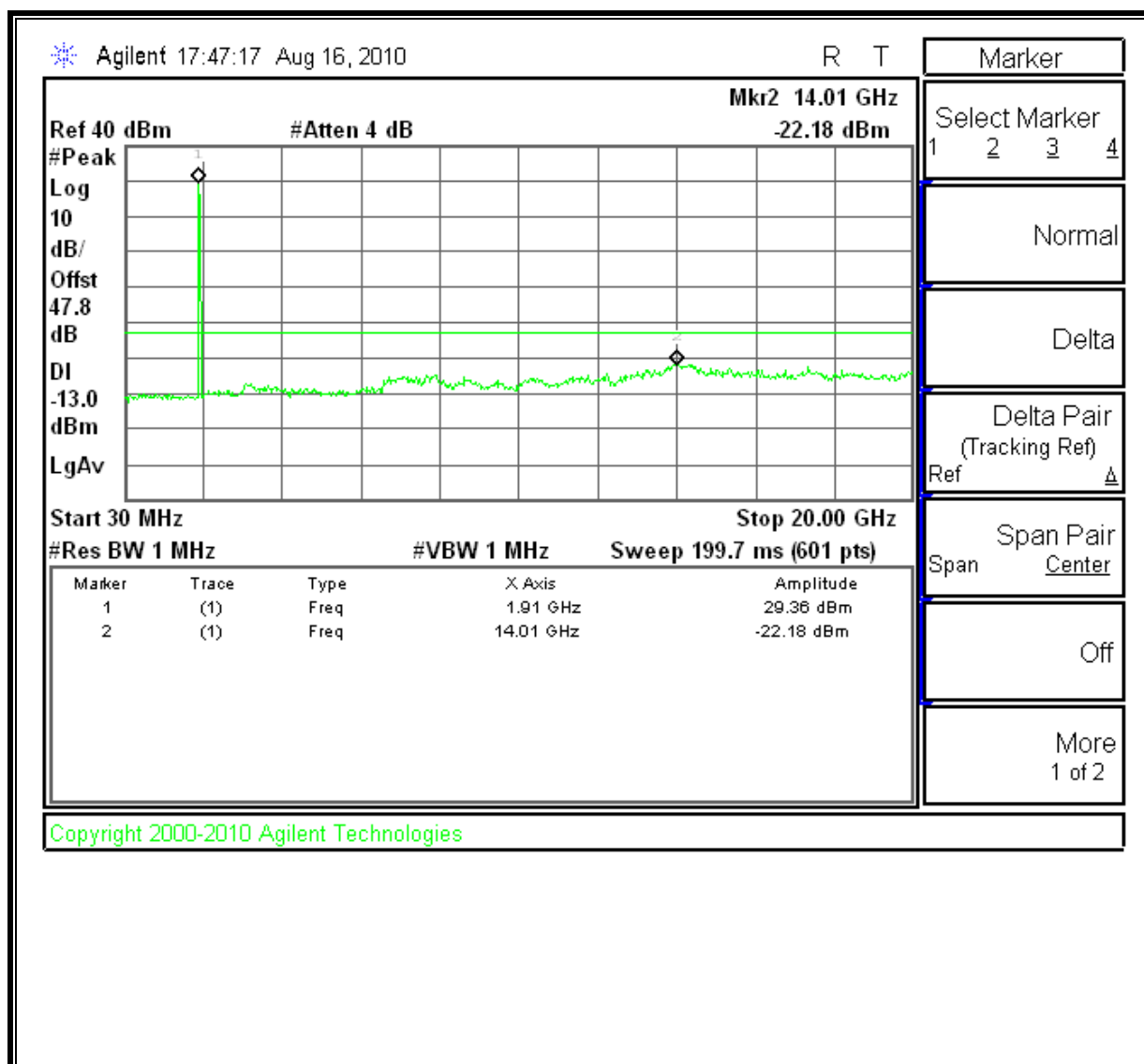




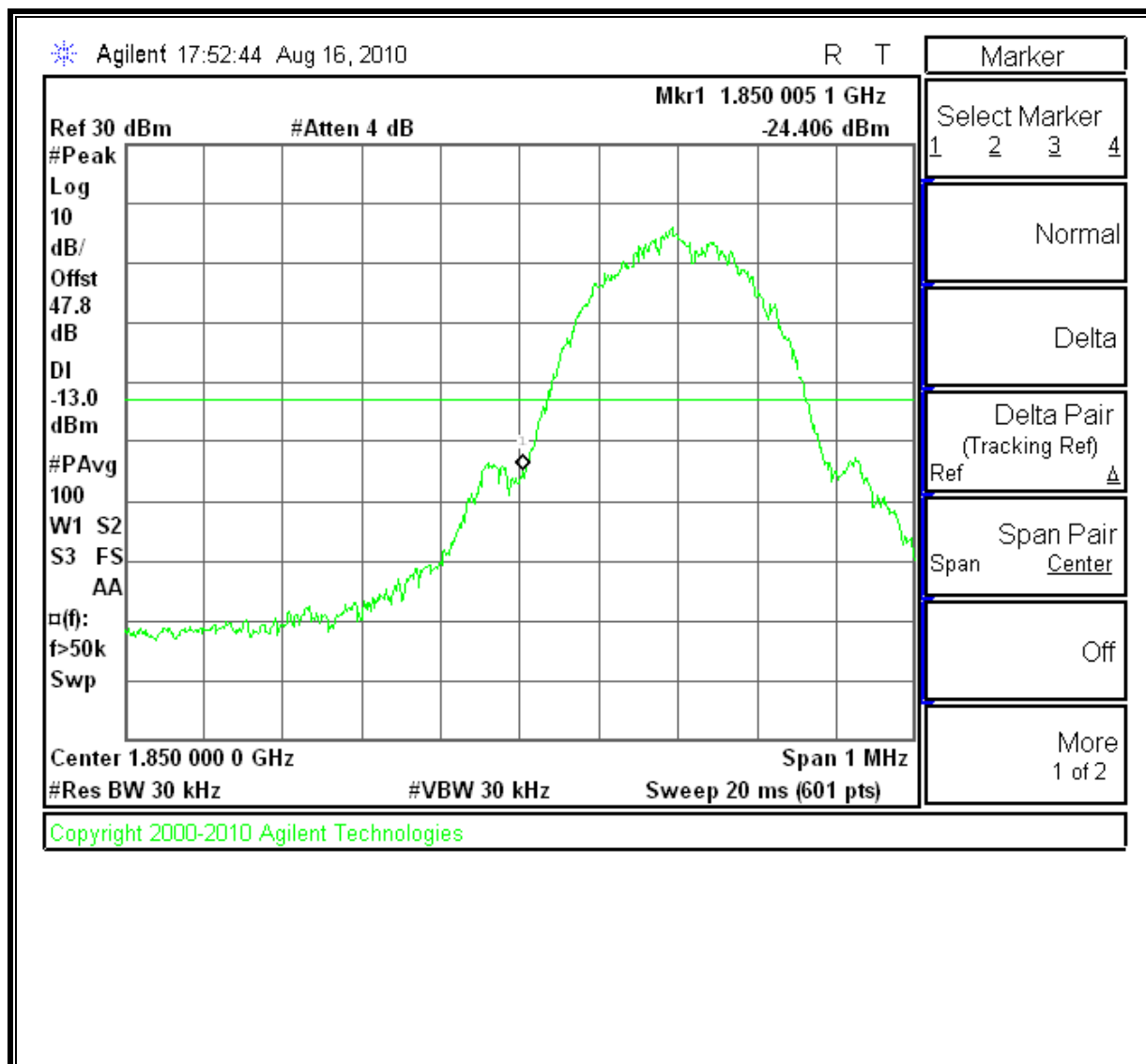
**Mid Channel, Out-Of-Band Emissions**



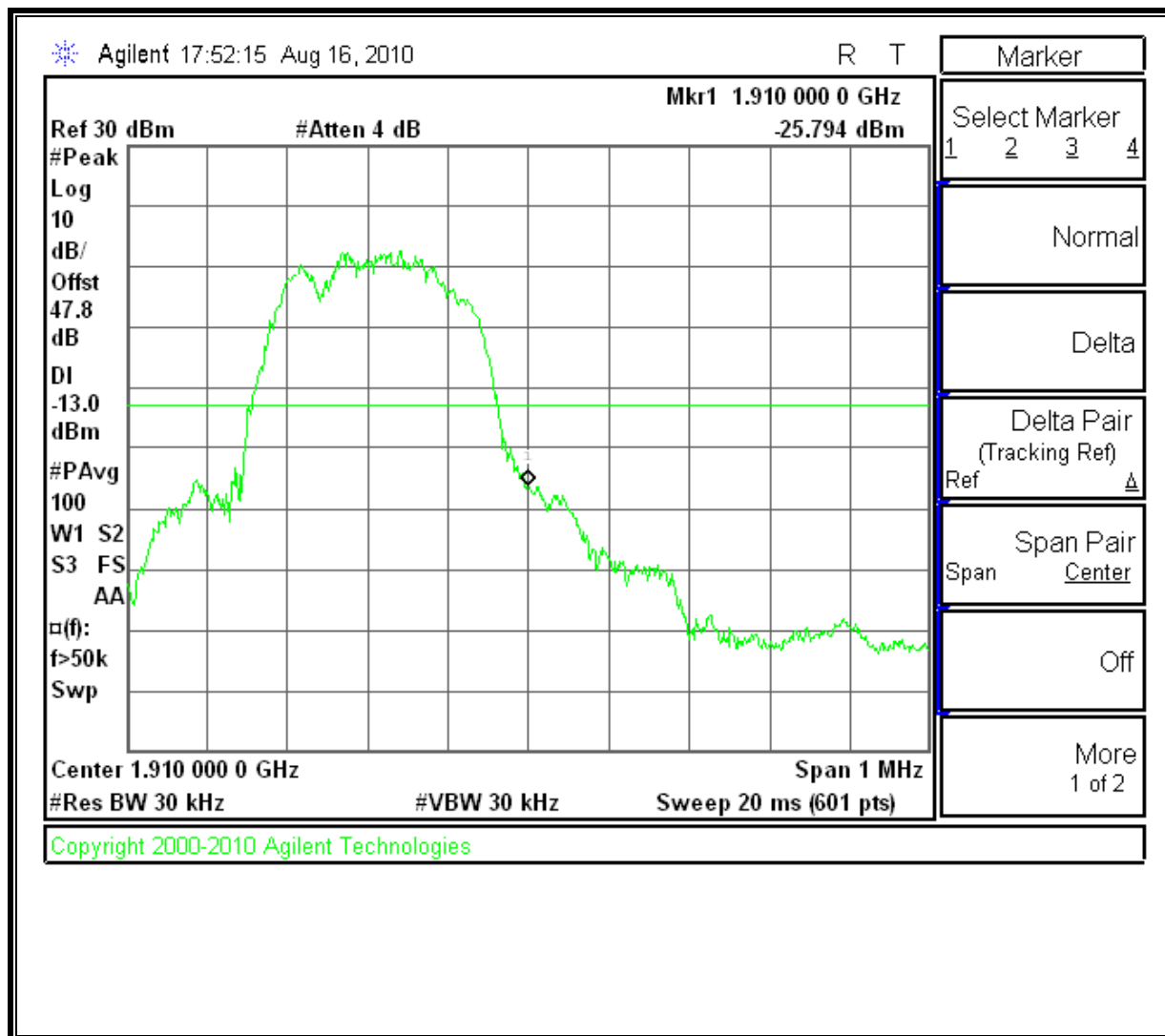
# **High Channel, Out-Of-Band Emissions**



# Low Channel Band Edge



# High Channel Band Edge



### **9.3. FREQUENCY STABILITY**

#### **RULE PART(S)**

FCC: §2.1055, §22.355, §24.235

#### **LIMITS**

- §22.355 - The carrier frequency shall not depart from the reference frequency in excess of  $\pm 2.5$  ppm for mobile stations.
- §24.235 - The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

#### **TEST PROCEDURE**

Use CMU200 with Frequency Error measurement capability.

- Temp. =  $-20^{\circ}$  to  $+50^{\circ}\text{C}$
- Voltage = 115 Vdc (85% - 115%)

#### **Frequency Stability vs Temperature:**

The EUT is placed inside a temperature chamber. The temperature is set to  $20^{\circ}\text{C}$  and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until  $+50^{\circ}\text{C}$  is reached.

#### **Frequency Stability vs Voltage:**

The peak frequency error is recorded (worst-case).

#### **MODES TESTED**

- GSM850 and EGPRS850
- GSM1900 and EGPRS1900

#### **RESULTS**

See the following pages.

**CELL, GSM850 – MID CHANNEL**

Reference Frequency: Cellular Mid Channel 836.599977MHz @ 20°C Limit: to stay +/- 2.5 ppm = 2091.500 Hz				
DC Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
4.20	50	836.599940	0.044	2.5
4.20	40	836.599937	0.048	2.5
4.20	30	836.599964	0.016	2.5
<b>4.20</b>	<b>20</b>	<b>836.599977</b>	<b>0</b>	2.5
4.20	10	836.599946	0.037	2.5
4.20	0	836.599970	0.008	2.5
4.20	-10	836.599967	0.012	2.5
4.20	-20	836.599950	0.032	2.5
Reference Frequency: Cellular Mid Channel 836.599977MHz @ 20°C Limit: to stay +/- 2.5 ppm = 2091.500 Hz				
DC Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
<b>4.20</b>	<b>20</b>	<b>836.599977</b>	<b>0.00</b>	<b>2.5</b>
3.57	20	836.599972	0.006	2.5
3.4 (end point voltage)	20	836.599974	0.004	2.5

**CELL, EGPRS850 – MID CHANNEL**

Reference Frequency: Cellular Mid Channel 836.600012MHz @ 20°C Limit: to stay +/- 2.5 ppm = 2091.500 Hz				
DC Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
4.20	50	836.599964	0.057	2.5
4.20	40	836.599969	0.051	2.5
4.20	30	836.600018	-0.007	2.5
<b>4.20</b>	<b>20</b>	<b>836.600012</b>	<b>0</b>	2.5
4.20	10	836.600035	-0.027	2.5
4.20	0	836.599969	0.051	2.5
4.20	-10	836.599962	0.060	2.5
4.20	-20	836.599975	0.044	2.5
Reference Frequency: Cellular Mid Channel 836.600012MHz @ 20°C Limit: to stay +/- 2.5 ppm = 2091.500 Hz				
DC Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
<b>4.20</b>	<b>20</b>	<b>836.600012</b>	<b>0.00</b>	<b>2.5</b>
3.57	20	836.600017	-0.006	2.5
3.4 (end point voltage)	20	836.600007	0.006	2.5

**PCS, GSM1900 – MID CHANNEL**

Reference Frequency: PCS Mid Channel 1879.999985MHz @ 20°C				
Limit: within the authorized block or +/- 2.5 ppm = 4700.000 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
4.20	50	1879.999917	0.036	2.5
4.20	40	1879.999932	0.028	2.5
4.20	30	1879.999991	-0.003	2.5
<b>4.20</b>	<b>20</b>	<b>1879.999985</b>	<b>0</b>	<b>2.5</b>
4.20	10	1879.999959	0.014	2.5
4.20	0	1879.999929	0.030	2.5
4.20	-10	1879.999923	0.033	2.5
4.20	-20	1879.999931	0.029	2.5
Reference Frequency: PCS Mid Channel 1879.999985MHz @ 20°C				
Limit: within the authorized block or +/- 2.5 ppm = 4700.000 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
<b>4.20</b>	<b>20</b>	<b>1879.999985</b>	<b>0.00</b>	<b>2.5</b>
3.57	20	1879.999942	0.023	2.5
3.4 (end point voltage)	20	1879.999940	0.024	2.5



**PCS, EGPRS1900 – MID CHANNEL**

Reference Frequency: PCS Mid Channel 1880.000032MHz @ 20°C				
Limit: within the authorized block or +/- 2.5 ppm = 4700.000 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
4.20	50	1879.999968	0.034	2.5
4.20	40	1879.999964	0.036	2.5
4.20	30	1880.000004	0.015	2.5
<b>4.20</b>	<b>20</b>	<b>1880.000032</b>	<b>0</b>	<b>2.5</b>
4.20	10	1880.000044	-0.006	2.5
4.20	0	1879.999980	0.028	2.5
4.20	-10	1879.999975	0.030	2.5
4.20	-20	1879.999978	0.029	2.5
Reference Frequency: PCS Mid Channel 1880.000032MHz @ 20°C				
Limit: within the authorized block or +/- 2.5 ppm = 4700.000 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
<b>4.20</b>	<b>20</b>	<b>1880.000032</b>	<b>0.00</b>	<b>2.5</b>
3.57	20	1880.000022	0.005	2.5
3.4 (end point voltage)	20	1880.000016	0.009	2.5

## 10. RADIATED TEST RESULTS

### 10.1. RADIATED POWER (ERP & EIRP)

#### LIMIT

22.913(a) The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

24.232(b) Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

#### TEST PROCEDURE

ANSI / TIA / EIA 603C Clause 2.2.17

#### MODES TESTED

- 1xRTT – RC1, SO55
- Ev-DO – Rev A

#### RESULTS for Cellular Band (ERP)

Mode	Channel	f (MHz)	ERP( Inductive backcover)		ERP ( Inductive Charger )	
			dBm	mW	dBm	mW
GSM850	128	824.20	34.00	2511.89	29.80	954.99
	190	836.60	34.90	3090.30	32.40	1737.80
	251	848.80	33.80	2398.83	31.80	1513.56
EGPRS850	128	824.20	30.00	1000.00	28.10	645.65
	190	836.60	30.40	1096.48	28.20	660.69
	251	848.80	30.30	1071.52	28.00	630.96

#### RESULTS for PCS Band (EIRP)

Mode	Channel	f (MHz)	EIRP( Inductive Cover)		EIRP (Inductive Charger)	
			dBm	mW	dBm	mW
GSM1900	512	1850.20	31.50	1412.54	29.60	912.01
	661	1880.00	30.60	1148.15	28.70	741.31
	810	1909.80	31.40	1380.38	27.40	549.54
EGPRS1900	512	1850.20	27.50	562.34	27.00	501.19
	661	1880.00	27.60	575.44	26.70	467.74
	810	1909.80	27.10	512.86	26.30	426.58

## EUT WITH INDUCTIVE BACKCOVER

### ERP for GSM850 Mode (Cellular Band)

High Frequency Substitution Measurement Compliance Certification Services Chamber B							
<b>Company:</b> Palm <b>Project #:</b> 10U13340 <b>Date:</b> 8/11/2010 <b>Test Engineer:</b> Chin Pang <b>Configuration:</b> EUT (Inductive Cover) and earphone <b>Mode:</b> TX, GSM850, GSM <b>Worst Case:</b> X position							
<b>Test Equipment:</b> <b>Receiving:</b> Sunol T130, and 3m Chamber N-type Cable (Setup this one for testing EUT) <b>Substitution:</b> Dipole S/N: 00022117, 6ft SMA Cable (SN # 208947003) Warehouse.							
f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Path Loss (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
<b>Low Ch</b>							
824.20	-10.5	V	32.6	22.1	38.5	-16.4	
824.20	3.6	H	30.4	34.0	38.5	-4.5	
<b>Mid Ch</b>							
836.60	-8.9	V	32.7	23.8	38.5	-14.7	
836.60	4.2	H	30.7	34.9	38.5	-3.5	
<b>High Ch</b>							
848.80	-11.0	V	32.0	21.0	38.5	-17.5	
848.80	3.0	H	30.8	33.8	38.5	-4.7	
Rev. 1.24.7							

### ERP for EGPRS Mode (Cellular Band)

High Frequency Substitution Measurement Compliance Certification Services Chamber B							
<b>Company:</b> Palm <b>Project #:</b> 10U13340 <b>Date:</b> 8/13/2010 <b>Test Engineer:</b> Chin Pang <b>Configuration:</b> EUT (Inductive Cover) and earphone <b>Mode:</b> TX, GSM850, EGPRS <b>Worst Case:</b> X position							
<b>Test Equipment:</b> <b>Receiving:</b> Sunol T130, and 3m Chamber N-type Cable (Setup this one for testing EUT) <b>Substitution:</b> Dipole S/N: 00022117, 6ft SMA Cable (SN # 208947003) Warehouse.							
f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Path Loss (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
<b>Low Ch</b>							
824.20	-10.5	V	32.6	22.1	38.5	-16.4	
824.20	-0.4	H	30.4	30.0	38.5	-8.4	
<b>Mid Ch</b>							
836.60	-10.2	V	32.7	22.5	38.5	-16.0	
836.60	-0.4	H	30.7	30.4	38.5	-8.1	
<b>High Ch</b>							
848.80	-10.3	V	32.0	21.7	38.5	-16.8	
848.80	-0.4	H	30.8	30.3	38.5	-8.1	
Rev. 1.24.7							

EIRP for GSM1900 Mode (PCS Band)

High Frequency Fundamental Measurement Compliance Certification Services Chamber B							
<b>Company:</b> Palm <b>Project #:</b> 10U13340 <b>Date:</b> 8/11/10 <b>Test Engineer:</b> Chin Pang <b>Configuration:</b> EUT (Inductive Cover) with Earphone <b>Mode:</b> TX, GSM1900, PCS band <b>Worst Case:</b> X Position  <b>Test Equipment:</b> <b>Receiving:</b> Horn T59, and Camber B SMA Cables <b>Substitution:</b> Horn T72 Substitution, 6ft SMA Cable (208947003) Warehouse							
f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Path Loss (dBm)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch</b>							
1.850	-17.5	V	40.2	22.7	33.0	-10.3	
1.850	-8.0	H	39.5	31.5	33.0	-1.5	
<b>Mid Ch</b>							
1.880	-17.3	V	40.3	23.0	33.0	-10.1	
1.880	-9.5	H	40.1	30.6	33.0	-2.4	
<b>High Ch</b>							
1.910	-16.8	V	40.2	23.4	33.0	-9.6	
1.910	-8.8	H	40.1	31.4	33.0	-1.7	
Rev. 1.24.7							

EIRP EGPRS1900 Mode (PCS Band)

High Frequency Fundamental Measurement Compliance Certification Services Chamber B							
<b>Company:</b> Palm <b>Project #:</b> 10U13340 <b>Date:</b> 8/11/10 <b>Test Engineer:</b> Chin Pang <b>Configuration:</b> EUT (Inductive Cover) with earphone <b>Mode:</b> TX, EGPRS1900, PCS band <b>Worst Case:</b> X position  <b>Test Equipment:</b> <b>Receiving:</b> Horn T59, and Camber B SMA Cables <b>Substitution:</b> Horn T72 Substitution, 6ft SMA Cable (208947003) Warehouse							
f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Path Loss (dBm)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch</b>							
1.850	-15.9	V	40.2	24.3	33.0	-8.7	
1.850	-12.0	H	39.5	27.5	33.0	-5.5	
<b>Mid Ch</b>							
1.880	-16.0	V	40.3	24.3	33.0	-8.8	
1.880	-12.5	H	40.1	27.6	33.0	-5.4	
<b>High Ch</b>							
1.910	-15.7	V	40.2	24.5	33.0	-8.5	
1.910	-13.0	H	40.1	27.1	33.0	-5.9	
Rev. 1.24.7							

## EUT WITH INDUCTIVE CHARGING DOCK

### EIRP for GSM850 Mode (Cellular Band)

High Frequency Substitution Measurement Compliance Certification Services Chamber B							
<b>Company:</b> Palm <b>Project #:</b> 10U13340 <b>Date:</b> 8/11/2010 <b>Test Engineer:</b> Chin Pang <b>Configuration:</b> EUT (Inductive Cover) with Charging Dock <b>Mode:</b> TX, GSM850, GSM							
<b>Test Equipment:</b> <b>Receiving:</b> Sunol T130, and 3m Chamber N-type Cable (Setup this one for testing EUT) <b>Substitution:</b> Dipole S/N: 00022117, 6ft SMA Cable (SN # 208947003) Warehouse.							
f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Path Loss (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
<b>Low Ch</b>							
824.20	-5.6	V	32.6	27.0	38.5	-11.5	
824.20	-0.6	H	30.4	29.8	38.5	-8.7	
<b>Mid Ch</b>							
836.60	-3.7	V	32.7	29.0	38.5	-9.5	
836.60	1.7	H	30.7	32.4	38.5	-6.0	
<b>High Ch</b>							
848.80	-5.8	V	32.0	26.2	38.5	-12.3	
848.80	1.0	H	30.8	31.8	38.5	-6.7	
Rev. 1.24.7							

### ERP for EGPRS Mode (Cellular Band)

High Frequency Substitution Measurement Compliance Certification Services Chamber B							
<b>Company:</b> Palm <b>Project #:</b> 10U13340 <b>Date:</b> 8/11/2010 <b>Test Engineer:</b> Chin Pang <b>Configuration:</b> EUT (Inductive Cover) with Charging dock <b>Mode:</b> TX, EGPRS 850							
<b>Test Equipment:</b> <b>Receiving:</b> Sunol T130, and 3m Chamber N-type Cable (Setup this one for testing EUT) <b>Substitution:</b> Dipole S/N: 00022117, 6ft SMA Cable (SN # 208947003) Warehouse.							
f MHz	SA reading (dBm)	Ant. Pol. (H/V)	Path Loss (dBm)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
<b>Low Ch</b>							
824.20	-7.3	V	32.6	25.3	38.5	-13.2	
824.20	-2.3	H	30.4	28.1	38.5	-10.4	
<b>Mid Ch</b>							
836.60	-6.2	V	32.7	26.5	38.5	-12.0	
836.60	-2.5	H	30.7	28.2	38.5	-10.2	
<b>High Ch</b>							
848.80	-6.6	V	32.0	25.4	38.5	-13.1	
848.80	-2.8	H	30.8	28.0	38.5	-10.5	
Rev. 1.24.7							

EIRP for GSM1900 Mode (PCS Band)

High Frequency Fundamental Measurement Compliance Certification Services Chamber B							
<b>Company:</b> Palm <b>Project #:</b> 10U13340 <b>Date:</b> 8/11/10 <b>Test Engineer:</b> Chin Pang <b>Configuration:</b> EUT (Inductive Cover) with Charging Dock <b>Mode:</b> TX, GSM1900, PCS band							
<b>Test Equipment:</b> <b>Receiving:</b> Horn T59, and Camber B SMA Cables <b>Substitution:</b> Horn T72 Substitution, 6ft SMA Cable (208947003) Warehouse							
f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Path Loss (dBm)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch</b>							
1.850	-18.6	V	40.2	21.6	33.0	-11.4	
1.850	-9.9	H	39.5	29.6	33.0	-3.4	
<b>Mid Ch</b>							
1.880	-15.2	V	40.3	25.1	33.0	-8.0	
1.880	-11.4	H	40.1	28.7	33.0	-4.3	
<b>High Ch</b>							
1.910	-17.5	V	40.2	22.7	33.0	-10.3	
1.910	-12.7	H	40.1	27.4	33.0	-5.6	
Rev. 1.24.7							

EIRP for EGPRS1900 Mode (PCS Band)

High Frequency Fundamental Measurement Compliance Certification Services Chamber B							
<b>Company:</b> Palm <b>Project #:</b> 10U13340 <b>Date:</b> 8/11/10 <b>Test Engineer:</b> Chin Pang <b>Configuration:</b> EUT (Inductive Cover) with Charging Dock <b>Mode:</b> TX, EGPRS 1900							
<b>Test Equipment:</b> <b>Receiving:</b> Horn T59, and Camber B SMA Cables <b>Substitution:</b> Horn T72 Substitution, 6ft SMA Cable (208947003) Warehouse							
f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Path Loss (dBm)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch</b>							
1.850	-17.1	V	40.2	23.1	33.0	-9.9	
1.850	-12.5	H	39.5	27.0	33.0	-6.0	
<b>Mid Ch</b>							
1.880	-17.3	V	40.3	23.0	33.0	-10.1	
1.880	-13.4	H	40.1	26.7	33.0	-6.3	
<b>High Ch</b>							
1.910	-17.0	V	40.2	23.2	33.0	-9.8	
1.910	-13.8	H	40.1	26.3	33.0	-6.7	
Rev. 1.24.7							

## **10.2. FIELD STRENGTH OF SPURIOUS RADIATION**

### **RULE PART(S)**

FCC: §2.1053, §22.917, §24.238

### **LIMIT**

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.

### **TEST PROCEDURE**

For Cellular equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. 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. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth ( i.e. 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

For PCS equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, 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. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth ( i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

### **MODES TESTED**

- 1xRTT – RC1, SO55
- Ev-DO – Rev A

### **RESULTS**

# EUT WITH INDUCTIVE COVER

## GSM 850 (Cellular Band)

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company: Palm Project #: 10U13340 Date: 8/13/2010 Test Engineer: Chin Pang Configuration: EUT (Inductive Cover) with earphone Mode: TX, GSMS850										
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber B		T145 8449B			Filter 1		TX Part 22			
f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Path Loss (dB)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 824.2MHz</b>										
1.65	-31.7	H	3.0	37.2	35.5	1.0	-29.0	-13.0	-16.0	
2.47	-43.2	H	3.0	39.8	35.4	1.0	-37.8	-13.0	-24.8	
3.30	-49.3	H	3.0	43.9	35.5	1.0	-39.9	-13.0	-26.9	
4.13	-44.0	H	3.0	46.7	35.2	1.0	-31.6	-13.0	-18.6	
4.95	-51.2	H	3.0	48.8	35.3	1.0	-36.8	-13.0	-23.8	
7.42	-60.0	H	3.0	53.0	35.7	1.0	-41.7	-13.0	-28.7	
1.65	-32.3	H	3.0	37.2	35.5	1.0	-29.6	-13.0	-16.6	
2.47	-42.0	V	3.0	41.7	35.4	1.0	-34.7	-13.0	-21.7	
3.30	-50.0	V	3.0	44.1	35.5	1.0	-40.4	-13.0	-27.4	
4.13	-39.5	V	3.0	46.2	35.2	1.0	-27.6	-13.0	-14.6	
4.95	-50.0	V	3.0	48.2	35.3	1.0	-36.1	-13.0	-23.1	
7.42	-50.9	V	3.0	51.3	35.7	1.0	-34.3	-13.0	-21.3	
<b>Mid Ch, 836.6MHz</b>										
1.67	-28.0	H	3.0	37.5	35.5	1.0	-25.1	-13.0	-12.1	
2.51	-41.7	H	3.0	39.9	35.4	1.0	-36.2	-13.0	-23.2	
3.35	-50.8	H	3.0	44.1	35.5	1.0	-41.2	-13.0	-28.2	
4.18	-43.0	H	3.0	46.8	35.2	1.0	-30.4	-13.0	-17.4	
5.02	-48.7	H	3.0	48.9	35.3	1.0	-34.1	-13.0	-21.1	
7.53	-56.4	H	3.0	53.1	35.7	1.0	-38.0	-13.0	-25.0	
1.67	-29.0	V	3.0	37.1	35.5	1.0	-26.4	-13.0	-13.4	
2.51	-45.2	V	3.0	41.8	35.4	1.0	-37.8	-13.0	-24.8	
3.35	-50.5	V	3.0	44.3	35.5	1.0	-40.8	-13.0	-27.8	
4.18	-36.0	V	3.0	46.3	35.2	1.0	-23.9	-13.0	-10.9	
5.02	-48.7	V	3.0	48.3	35.3	1.0	-34.7	-13.0	-21.7	
7.53	-50.3	V	3.0	51.5	35.7	1.0	-33.5	-13.0	-20.5	
<b>High Ch, 848.8MHz</b>										
1.70	-30.2	H	3.0	37.7	35.5	1.0	-27.0	-13.0	-14.0	
2.55	-42.9	H	3.0	40.1	35.4	1.0	-37.2	-13.0	-24.2	
3.40	-55.2	H	3.0	44.3	35.5	1.0	-45.4	-13.0	-32.4	
4.24	-42.5	H	3.0	47.0	35.2	1.0	-29.8	-13.0	-16.8	
5.09	-49.5	H	3.0	49.1	35.3	1.0	-34.7	-13.0	-21.7	
7.64	-55.0	H	3.0	53.2	35.7	1.0	-36.5	-13.0	-23.5	
1.70	-32.0	V	3.0	37.5	35.5	1.0	-29.1	-13.0	-16.1	
2.55	-41.2	V	3.0	42.0	35.4	1.0	-33.7	-13.0	-20.7	
3.40	-50.7	V	3.0	44.4	35.5	1.0	-40.8	-13.0	-27.8	
4.24	-39.2	V	3.0	46.5	35.2	1.0	-27.0	-13.0	-14.0	
5.09	-50.0	V	3.0	48.5	35.3	1.0	-35.8	-13.0	-22.8	
7.64	-50.5	V	3.0	51.6	35.7	1.0	-33.6	-13.0	-20.6	

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**EGPRS 850 (Cellular Band)**

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: Palm Project #: 10U13340 Date: 8/14/2010 Test Engineer: Chin Pang Configuration: EUT (Inductive Cover) with earphone Mode: TX, EGPRS850										
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber B		T145 8449B			Filter 1		TX Part 22			
f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Path Loss (dB)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 824.2MHz</b>										
1.65	-35.8	H	3.0	37.2	35.5	1.0	-33.1	-13.0	-20.1	
2.47	-46.0	H	3.0	39.8	35.4	1.0	-40.6	-13.0	-27.6	
3.30	-46.8	H	3.0	43.9	35.5	1.0	-37.4	-13.0	-24.4	
4.13	-47.8	H	3.0	46.7	35.2	1.0	-35.4	-13.0	-22.4	
4.95	-54.1	H	3.0	48.8	35.3	1.0	-39.7	-13.0	-26.7	
7.42	-58.1	H	3.0	53.0	35.7	1.0	-39.8	-13.0	-26.8	
1.65	-40.9	H	3.0	37.2	35.5	1.0	-38.2	-13.0	-25.2	
2.47	-47.5	V	3.0	41.7	35.4	1.0	-40.2	-13.0	-27.2	
3.30	-40.5	V	3.0	44.1	35.5	1.0	-30.9	-13.0	-17.9	
4.13	-46.3	V	3.0	46.2	35.2	1.0	-34.4	-13.0	-21.4	
4.95	-55.3	V	3.0	48.2	35.3	1.0	-41.4	-13.0	-28.4	
7.42	-54.3	V	3.0	51.3	35.7	1.0	-37.7	-13.0	-24.7	
<b>Mid Ch, 836.6MHz</b>										
1.67	-39.0	H	3.0	37.5	35.5	1.0	-36.1	-13.0	-23.1	
2.51	-46.2	H	3.0	39.9	35.4	1.0	-40.7	-13.0	-27.7	
3.35	-50.6	H	3.0	44.1	35.5	1.0	-41.0	-13.0	-28.0	
4.18	-51.0	H	3.0	46.8	35.2	1.0	-38.4	-13.0	-25.4	
5.02	-53.5	H	3.0	48.9	35.3	1.0	-38.9	-13.0	-25.9	
7.53	-54.0	H	3.0	53.1	35.7	1.0	-35.6	-13.0	-22.6	
1.67	-45.5	V	3.0	37.1	35.5	1.0	-42.9	-13.0	-29.9	
2.51	-48.0	V	3.0	41.8	35.4	1.0	-40.6	-13.0	-27.6	
3.35	-42.5	V	3.0	44.3	35.5	1.0	-32.8	-13.0	-19.8	
4.18	-45.6	V	3.0	46.3	35.2	1.0	-33.5	-13.0	-20.5	
5.02	-54.8	V	3.0	48.3	35.3	1.0	-40.8	-13.0	-27.8	
7.53	-55.0	V	3.0	51.5	35.7	1.0	-38.2	-13.0	-25.2	
<b>High Ch, 848.8MHz</b>										
1.70	-35.0	H	3.0	37.7	35.5	1.0	-31.8	-13.0	-18.8	
2.55	-46.0	H	3.0	40.1	35.4	1.0	-40.3	-13.0	-27.3	
3.40	-57.0	H	3.0	44.3	35.5	1.0	-47.2	-13.0	-34.2	
4.24	-47.8	H	3.0	47.0	35.2	1.0	-35.1	-13.0	-22.1	
5.09	-54.5	H	3.0	49.1	35.3	1.0	-39.7	-13.0	-26.7	
7.64	-60.0	H	3.0	53.2	35.7	1.0	-41.5	-13.0	-28.5	
1.70	-45.2	V	3.0	37.5	35.5	1.0	-42.3	-13.0	-29.3	
2.55	-46.0	V	3.0	42.0	35.4	1.0	-38.5	-13.0	-25.5	
3.40	-48.4	V	3.0	44.4	35.5	1.0	-38.5	-13.0	-25.5	
4.24	-41.5	V	3.0	46.5	35.2	1.0	-29.3	-13.0	-16.3	
5.09	-53.0	V	3.0	48.5	35.3	1.0	-38.8	-13.0	-25.8	
7.64	-52.8	V	3.0	51.6	35.7	1.0	-35.9	-13.0	-22.9	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

**GSM 1900 (PCS Band)**

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: Palm Project #: 10U13340 Date: 8/12/2010 Test Engineer: Chin Pang Configuration: EUT (Inductive Cover) with Charging Dock Mode: TX, GSM1900										
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber B		T145 8449B		Filter 1		TX Part 24				
f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Path Loss (dB)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1850.2MHz</b>										
3.70	-50.7	H	3.0	45.3	35.4	1.0	-39.7	-13.0	-26.7	
5.55	-55.0	H	3.0	50.0	35.4	1.0	-39.4	-13.0	-26.4	
7.40	-57.5	H	3.0	53.0	35.7	1.0	-39.2	-13.0	-26.2	
9.25	-51.6	H	3.0	55.1	35.6	1.0	-31.1	-13.0	-18.1	
11.10	-56.6	H	3.0	56.0	34.8	1.0	-34.4	-13.0	-21.4	
12.95	-60.0	H	3.0	57.6	34.0	1.0	-35.5	-13.0	-22.5	
3.70	-48.6	V	3.0	45.1	35.4	1.0	-37.8	-13.0	-24.8	
5.55	-55.2	V	3.0	49.2	35.4	1.0	-40.4	-13.0	-27.4	
7.40	-52.3	V	3.0	51.3	35.7	1.0	-35.7	-13.0	-22.7	
9.25	-48.8	V	3.0	53.6	35.6	1.0	-29.8	-13.0	-16.8	
11.10	-48.2	V	3.0	55.9	34.8	1.0	-26.1	-13.0	-13.1	
12.95	-54.8	V	3.0	58.0	34.0	1.0	-29.8	-13.0	-16.8	
<b>Mid Ch, 1880MHz</b>										
3.76	-46.5	H	3.0	45.5	35.3	1.0	-35.3	-13.0	-22.3	
5.64	-56.0	H	3.0	50.2	35.4	1.0	-40.3	-13.0	-27.3	
7.52	-55.0	H	3.0	53.1	35.7	1.0	-36.6	-13.0	-23.6	
9.40	-49.5	H	3.0	55.2	35.6	1.0	-28.8	-13.0	-15.8	
11.28	-58.6	H	3.0	56.1	34.7	1.0	-36.2	-13.0	-23.2	
3.76	-47.1	V	3.0	45.3	35.3	1.0	-36.2	-13.0	-23.2	
5.64	-55.0	V	3.0	49.3	35.4	1.0	-40.1	-13.0	-27.1	
7.52	-48.5	V	3.0	51.4	35.7	1.0	-31.8	-13.0	-18.8	
9.40	-47.8	V	3.0	53.7	35.6	1.0	-28.6	-13.0	-15.6	
11.28	-51.5	V	3.0	56.1	34.7	1.0	-29.1	-13.0	-16.1	
13.16	-60.0	V	3.0	58.3	34.0	1.0	-34.7	-13.0	-21.7	
<b>High Ch, 1909.8MHz</b>										
3.82	-49.4	H	3.0	45.7	35.3	1.0	-38.0	-13.0	-25.0	
5.73	-57.7	H	3.0	50.3	35.4	1.0	-41.8	-13.0	-28.8	
7.64	-52.3	H	3.0	53.2	35.7	1.0	-33.8	-13.0	-20.8	
9.55	-52.7	H	3.0	55.4	35.6	1.0	-31.9	-13.0	-18.9	
11.46	-57.0	H	3.0	56.1	34.6	1.0	-34.5	-13.0	-21.5	
3.82	-48.8	V	3.0	45.4	35.3	1.0	-37.7	-13.0	-24.7	
5.73	-57.0	V	3.0	49.4	35.4	1.0	-42.1	-13.0	-29.1	
7.64	-46.5	V	3.0	51.6	35.7	1.0	-29.6	-13.0	-16.6	
9.55	-49.7	V	3.0	53.9	35.6	1.0	-30.3	-13.0	-17.3	
11.46	-48.2	V	3.0	56.3	34.6	1.0	-25.5	-13.0	-12.5	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

**EGPRS1900 (PCS Band)**

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: Palm Project #: 10U13340 Date: 8/12/2010 Test Engineer: Chin Pang Configuration: EUT (Inductive Cover) with Charging Dock Mode: TX, EGPRS1900										
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber B		T145 8449B		Filter 1		TX Part 24				
f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Path Loss (dB)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1850.2MHz</b>										
3.70	-52.4	H	3.0	45.3	35.4	1.0	-41.4	-13.0	-28.4	
5.55	-58.0	H	3.0	50.0	35.4	1.0	-42.4	-13.0	-29.4	
7.40	-55.3	H	3.0	53.0	35.7	1.0	-37.0	-13.0	-24.0	
9.25	-53.0	H	3.0	55.1	35.6	1.0	-32.5	-13.0	-19.5	
11.10	-54.5	H	3.0	56.0	34.8	1.0	-32.3	-13.0	-19.3	
12.95	-60.0	H	3.0	57.6	34.0	1.0	-35.5	-13.0	-22.5	
3.70	-50.5	V	3.0	45.1	35.4	1.0	-39.7	-13.0	-26.7	
5.55	-55.8	V	3.0	49.2	35.4	1.0	-41.0	-13.0	-28.0	
7.40	-51.6	V	3.0	51.3	35.7	1.0	-35.0	-13.0	-22.0	
9.25	-48.0	V	3.0	53.6	35.6	1.0	-29.0	-13.0	-16.0	
11.10	-49.1	V	3.0	55.9	34.8	1.0	-27.0	-13.0	-14.0	
12.95	-55.6	V	3.0	58.0	34.0	1.0	-30.6	-13.0	-17.6	
<b>Mid Ch, 1880MHz</b>										
3.76	-51.3	H	3.0	45.5	35.3	1.0	-40.1	-13.0	-27.1	
7.52	-53.2	H	3.0	53.1	35.7	1.0	-34.8	-13.0	-21.8	
9.40	-51.5	H	3.0	55.2	35.6	1.0	-30.8	-13.0	-17.8	
11.28	-54.0	H	3.0	56.1	34.7	1.0	-31.6	-13.0	-18.6	
3.76	-48.5	V	3.0	45.3	35.3	1.0	-37.6	-13.0	-24.6	
5.64	-54.8	V	3.0	49.3	35.4	1.0	-39.9	-13.0	-26.9	
7.52	-49.3	V	3.0	51.4	35.7	1.0	-32.6	-13.0	-19.6	
9.40	-50.0	V	3.0	53.7	35.6	1.0	-30.8	-13.0	-17.8	
11.28	-51.2	V	3.0	56.1	34.7	1.0	-28.8	-13.0	-15.8	
13.16	-64.0	V	3.0	58.3	34.0	1.0	-38.7	-13.0	-25.7	
<b>High Ch, 1909.8MHz</b>										
5.73	-58.4	H	3.0	50.3	35.4	1.0	-42.5	-13.0	-29.5	
7.64	-57.2	H	3.0	53.2	35.7	1.0	-38.7	-13.0	-25.7	
9.55	-52.6	H	3.0	55.4	35.6	1.0	-31.8	-13.0	-18.8	
11.46	-58.7	H	3.0	56.1	34.6	1.0	-36.2	-13.0	-23.2	
3.82	-48.5	V	3.0	45.4	35.3	1.0	-37.4	-13.0	-24.4	
5.73	-57.3	V	3.0	49.4	35.4	1.0	-42.4	-13.0	-29.4	
7.64	-49.7	V	3.0	51.6	35.7	1.0	-32.8	-13.0	-19.8	
9.55	-50.6	V	3.0	53.9	35.6	1.0	-31.2	-13.0	-18.2	
11.46	-48.7	V	3.0	56.3	34.6	1.0	-26.0	-13.0	-13.0	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

# EUT WITH INDUCTIVE CHARGING DOCK

## GSM 850 (Cellular Band)

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: Palm Project #: 10U13340 Date: 8/12/2010 Test Engineer: Chin Pang Configuration: EUT (Inductive Cover) with Charging Dock Mode: TX, GSMS850										
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber B		T145 8449B			Filter 1		TX Part 22			
f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Path Loss (dB)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 824.2MHz</b>										
1.65	-39.0	H	3.0	37.2	35.5	1.0	-36.3	-13.0	-23.3	
2.47	-41.4	H	3.0	39.8	35.4	1.0	-36.0	-13.0	-23.0	
3.30	-47.0	H	3.0	43.9	35.5	1.0	-37.6	-13.0	-24.6	
4.13	-50.0	H	3.0	46.7	35.2	1.0	-37.6	-13.0	-24.6	
8.24	-51.5	H	3.0	53.9	35.6	1.0	-32.2	-13.0	-19.2	
1.65	-45.0	H	3.0	37.2	35.5	1.0	-42.3	-13.0	-29.3	
2.47	-43.2	V	3.0	41.7	35.4	1.0	-35.9	-13.0	-22.9	
3.30	-39.3	V	3.0	44.1	35.5	1.0	-29.7	-13.0	-16.7	
4.13	-44.6	V	3.0	46.2	35.2	1.0	-32.7	-13.0	-19.7	
7.42	-51.0	V	3.0	51.3	35.7	1.0	-34.4	-13.0	-21.4	
<b>Mid Ch, 836.6MHz</b>										
2.51	-38.2	H	3.0	39.9	35.4	1.0	-32.7	-13.0	-19.7	
3.35	-45.6	H	3.0	44.1	35.5	1.0	-36.0	-13.0	-23.0	
4.18	-49.0	H	3.0	46.8	35.2	1.0	-36.4	-13.0	-23.4	
5.02	-50.5	H	3.0	48.9	35.3	1.0	-35.9	-13.0	-22.9	
7.53	-51.1	H	3.0	53.1	35.7	1.0	-32.7	-13.0	-19.7	
8.37	-51.2	H	3.0	54.1	35.6	1.0	-31.8	-13.0	-18.8	
2.51	-36.5	V	3.0	41.8	35.4	1.0	-29.1	-13.0	-16.1	
3.35	-42.8	V	3.0	44.3	35.5	1.0	-33.1	-13.0	-20.1	
4.18	-48.7	V	3.0	46.3	35.2	1.0	-36.6	-13.0	-23.6	
5.02	-52.0	V	3.0	48.3	35.3	1.0	-38.0	-13.0	-25.0	
7.53	-45.2	V	3.0	51.5	35.7	1.0	-28.4	-13.0	-15.4	
8.37	-49.3	V	3.0	52.5	35.6	1.0	-31.5	-13.0	-18.5	
<b>High Ch, 848.8MHz</b>										
1.70	-33.5	H	3.0	37.7	35.5	1.0	-30.3	-13.0	-17.3	
2.55	-40.8	H	3.0	40.1	35.4	1.0	-35.1	-13.0	-22.1	
3.40	-45.8	H	3.0	44.3	35.5	1.0	-36.0	-13.0	-23.0	
4.24	-50.3	H	3.0	47.0	35.2	1.0	-37.6	-13.0	-24.6	
5.09	-53.0	H	3.0	49.1	35.3	1.0	-38.2	-13.0	-25.2	
7.64	-51.0	H	3.0	53.2	35.7	1.0	-32.5	-13.0	-19.5	
8.49	-52.7	H	3.0	54.2	35.6	1.0	-33.1	-13.0	-20.1	
1.70	-40.6	V	3.0	37.5	35.5	1.0	-37.7	-13.0	-24.7	
2.55	-42.8	V	3.0	42.0	35.4	1.0	-35.3	-13.0	-22.3	
3.40	-44.0	V	3.0	44.4	35.5	1.0	-34.1	-13.0	-21.1	
4.24	-45.8	V	3.0	46.5	35.2	1.0	-33.6	-13.0	-20.6	
5.09	-51.4	V	3.0	48.5	35.3	1.0	-37.2	-13.0	-24.2	
7.64	-46.8	V	3.0	51.6	35.7	1.0	-29.9	-13.0	-16.9	
8.49	-50.0	V	3.0	52.6	35.6	1.0	-32.0	-13.0	-19.0	

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**EGPRS 850 (Cellular Band)**

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: Palm Project #: 10U13340 Date: 8/12/2010 Test Engineer: Chin Pang Configuration: EUT (Inductive Cover) with Charging Dock Mode: TX, EGPRS850										
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber B		T145 8449B		Filter 1		TX Part 22				
f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Path Loss (dB)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch. 824.2MHz</b>										
1.65	-42.2	H	3.0	37.2	35.5	1.0	-39.5	-13.0	-26.5	
2.47	-44.5	H	3.0	39.8	35.4	1.0	-39.1	-13.0	-26.1	
4.12	-46.6	H	3.0	46.7	35.2	1.0	-34.2	-13.0	-21.2	
4.95	-53.0	H	3.0	48.8	35.3	1.0	-38.6	-13.0	-25.6	
7.42	-55.0	H	3.0	53.0	35.7	1.0	-36.7	-13.0	-23.7	
8.24	-58.0	H	3.0	53.9	35.6	1.0	-38.7	-13.0	-25.7	
1.65	-52.6	V	3.0	36.8	35.5	1.0	-50.4	-13.0	-37.4	
2.47	-40.5	V	3.0	41.7	35.4	1.0	-33.2	-13.0	-20.2	
4.12	-45.7	V	3.0	46.1	35.2	1.0	-33.8	-13.0	-20.8	
4.95	-54.0	V	3.0	48.2	35.3	1.0	-40.1	-13.0	-27.1	
7.42	-51.3	V	3.0	51.3	35.7	1.0	-34.7	-13.0	-21.7	
8.24	-55.1	V	3.0	52.3	35.6	1.0	-37.4	-13.0	-24.4	
<b>Mid Ch. 836.6MHz</b>										
1.67	-48.8	V	3.0	37.1	35.5	1.0	-46.2	-13.0	-33.2	
2.51	-46.3	H	3.0	39.9	35.4	1.0	-40.8	-13.0	-27.8	
4.18	-48.0	H	3.0	46.8	35.2	1.0	-35.4	-13.0	-22.4	
5.02	-54.0	H	3.0	48.9	35.3	1.0	-39.4	-13.0	-26.4	
7.53	-53.0	H	3.0	53.1	35.7	1.0	-34.6	-13.0	-21.6	
1.67	-48.8	V	3.0	37.1	35.5	1.0	-46.2	-13.0	-33.2	
2.51	-50.5	V	3.0	41.8	35.4	1.0	-43.1	-13.0	-30.1	
4.18	-48.6	V	3.0	46.3	35.2	1.0	-36.5	-13.0	-23.5	
5.02	-54.5	V	3.0	48.3	35.3	1.0	-40.5	-13.0	-27.5	
7.53	-50.4	V	3.0	51.5	35.7	1.0	-33.6	-13.0	-20.6	
<b>High Ch. 848.8MHz</b>										
1.70	-40.3	H	3.0	37.7	35.5	1.0	-37.1	-13.0	-24.1	
2.55	-47.1	H	3.0	40.1	35.4	1.0	-41.4	-13.0	-28.4	
3.40	-49.8	H	3.0	44.3	35.5	1.0	-40.0	-13.0	-27.0	
4.24	-52.0	H	3.0	47.0	35.2	1.0	-39.3	-13.0	-26.3	
7.64	-55.7	H	3.0	53.2	35.7	1.0	-37.2	-13.0	-24.2	
1.70	-50.5	V	3.0	37.4	35.5	1.0	-47.6	-13.0	-34.6	
2.55	-50.4	V	3.0	42.0	35.4	1.0	-42.9	-13.0	-29.9	
3.40	-51.8	V	3.0	44.4	35.5	1.0	-41.9	-13.0	-28.9	
4.24	-46.8	V	3.0	46.5	35.2	1.0	-34.6	-13.0	-21.6	
7.64	-52.0	V	3.0	51.6	35.7	1.0	-35.1	-13.0	-22.1	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

**GSM 1900 (PCS Band)**

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: Palm Project #: 10U13340 Date: 8/12/2010 Test Engineer: Chin Pang Configuration: EUT (Inductive Cover) with Charging Dock Mode: TX, EGPRS1900										
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber B		T145 8449B		Filter 1		TX Part 24				
f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Path Loss (dB)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1850.2MHz</b>										
3.70	-52.4	H	3.0	45.3	35.4	1.0	-41.4	-13.0	-28.4	
5.55	-58.0	H	3.0	50.0	35.4	1.0	-42.4	-13.0	-29.4	
7.40	-55.3	H	3.0	53.0	35.7	1.0	-37.0	-13.0	-24.0	
9.25	-53.0	H	3.0	55.1	35.6	1.0	-32.5	-13.0	-19.5	
11.10	-54.5	H	3.0	56.0	34.8	1.0	-32.3	-13.0	-19.3	
12.95	-60.0	H	3.0	57.6	34.0	1.0	-35.5	-13.0	-22.5	
3.70	-50.5	V	3.0	45.1	35.4	1.0	-39.7	-13.0	-26.7	
5.55	-55.8	V	3.0	49.2	35.4	1.0	-41.0	-13.0	-28.0	
7.40	-51.6	V	3.0	51.3	35.7	1.0	-35.0	-13.0	-22.0	
9.25	-48.0	V	3.0	53.6	35.6	1.0	-29.0	-13.0	-16.0	
11.10	-49.1	V	3.0	55.9	34.8	1.0	-27.0	-13.0	-14.0	
12.95	-55.6	V	3.0	58.0	34.0	1.0	-30.6	-13.0	-17.6	
<b>Mid Ch, 1880MHz</b>										
3.76	-51.3	H	3.0	45.5	35.3	1.0	-40.1	-13.0	-27.1	
7.52	-53.2	H	3.0	53.1	35.7	1.0	-34.8	-13.0	-21.8	
9.40	-51.5	H	3.0	55.2	35.6	1.0	-30.8	-13.0	-17.8	
11.28	-54.0	H	3.0	56.1	34.7	1.0	-31.6	-13.0	-18.6	
3.76	-48.5	V	3.0	45.3	35.3	1.0	-37.6	-13.0	-24.6	
5.64	-54.8	V	3.0	49.3	35.4	1.0	-39.9	-13.0	-26.9	
7.52	-49.3	V	3.0	51.4	35.7	1.0	-32.6	-13.0	-19.6	
9.40	-50.0	V	3.0	53.7	35.6	1.0	-30.8	-13.0	-17.8	
11.28	-51.2	V	3.0	56.1	34.7	1.0	-28.8	-13.0	-15.8	
13.16	-64.0	V	3.0	58.3	34.0	1.0	-38.7	-13.0	-25.7	
<b>High Ch, 1909.8MHz</b>										
5.73	-58.4	H	3.0	50.3	35.4	1.0	-42.5	-13.0	-29.5	
7.64	-57.2	H	3.0	53.2	35.7	1.0	-38.7	-13.0	-25.7	
9.55	-52.6	H	3.0	55.4	35.6	1.0	-31.8	-13.0	-18.8	
11.46	-58.7	H	3.0	56.1	34.6	1.0	-36.2	-13.0	-23.2	
3.82	-48.5	V	3.0	45.4	35.3	1.0	-37.4	-13.0	-24.4	
5.73	-57.3	V	3.0	49.4	35.4	1.0	-42.4	-13.0	-29.4	
7.64	-49.7	V	3.0	51.6	35.7	1.0	-32.8	-13.0	-19.8	
9.55	-50.6	V	3.0	53.9	35.6	1.0	-31.2	-13.0	-18.2	
11.46	-48.7	V	3.0	56.3	34.6	1.0	-26.0	-13.0	-13.0	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										



**EGPRS1900 (PCS Band)**

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: Palm Project #: 10U13340 Date: 8/12/2010 Test Engineer: Chin Pang Configuration: EUT (Inductive Cover) with Charging Dock Mode: TX, EGPRS1900										
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber B		T145 8449B			Filter 1		TX Part 24			
f GHz	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Path Loss (dB)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1850.2MHz</b>										
3.70	-52.4	H	3.0	45.3	35.4	1.0	-41.4	-13.0	-28.4	
5.55	-58.0	H	3.0	50.0	35.4	1.0	-42.4	-13.0	-29.4	
7.40	-55.3	H	3.0	53.0	35.7	1.0	-37.0	-13.0	-24.0	
9.25	-53.0	H	3.0	55.1	35.6	1.0	-32.5	-13.0	-19.5	
11.10	-54.5	H	3.0	56.0	34.8	1.0	-32.3	-13.0	-19.3	
12.95	-60.0	H	3.0	57.6	34.0	1.0	-35.5	-13.0	-22.5	
3.70	-50.5	V	3.0	45.1	35.4	1.0	-39.7	-13.0	-26.7	
5.55	-55.8	V	3.0	49.2	35.4	1.0	-41.0	-13.0	-28.0	
7.40	-51.6	V	3.0	51.3	35.7	1.0	-35.0	-13.0	-22.0	
9.25	-48.0	V	3.0	53.6	35.6	1.0	-29.0	-13.0	-16.0	
11.10	-49.1	V	3.0	55.9	34.8	1.0	-27.0	-13.0	-14.0	
12.95	-55.6	V	3.0	58.0	34.0	1.0	-30.6	-13.0	-17.6	
<b>Mid Ch, 1880MHz</b>										
3.76	-51.3	H	3.0	45.5	35.3	1.0	-40.1	-13.0	-27.1	
7.52	-53.2	H	3.0	53.1	35.7	1.0	-34.8	-13.0	-21.8	
9.40	-51.5	H	3.0	55.2	35.6	1.0	-30.8	-13.0	-17.8	
11.28	-54.0	H	3.0	56.1	34.7	1.0	-31.6	-13.0	-18.6	
3.76	-48.5	V	3.0	45.3	35.3	1.0	-37.6	-13.0	-24.6	
5.64	-54.8	V	3.0	49.3	35.4	1.0	-39.9	-13.0	-26.9	
7.52	-49.3	V	3.0	51.4	35.7	1.0	-32.6	-13.0	-19.6	
9.40	-50.0	V	3.0	53.7	35.6	1.0	-30.8	-13.0	-17.8	
11.28	-51.2	V	3.0	56.1	34.7	1.0	-28.8	-13.0	-15.8	
13.16	-64.0	V	3.0	58.3	34.0	1.0	-38.7	-13.0	-25.7	
<b>High Ch, 1909.8MHz</b>										
5.73	-58.4	H	3.0	50.3	35.4	1.0	-42.5	-13.0	-29.5	
7.64	-57.2	H	3.0	53.2	35.7	1.0	-38.7	-13.0	-25.7	
9.55	-52.6	H	3.0	55.4	35.6	1.0	-31.8	-13.0	-18.8	
11.46	-58.7	H	3.0	56.1	34.6	1.0	-36.2	-13.0	-23.2	
3.82	-48.5	V	3.0	45.4	35.3	1.0	-37.4	-13.0	-24.4	
5.73	-57.3	V	3.0	49.4	35.4	1.0	-42.4	-13.0	-29.4	
7.64	-49.7	V	3.0	51.6	35.7	1.0	-32.8	-13.0	-19.8	
9.55	-50.6	V	3.0	53.9	35.6	1.0	-31.2	-13.0	-18.2	
11.46	-48.7	V	3.0	56.3	34.6	1.0	-26.0	-13.0	-13.0	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										