

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

## INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E AND INDUSTRY CANADA RSS-132 and RSS-133 REQUIREMENT

OF

**Product Name:** Mobile Phone

**Brand Name:** Sony

**Marketing Name:** ST23a

**Model No.:** PM-0190-BV

**Model Difference:** N/A

**FCC ID:** PY7PM-0190

**IC:** 4170B-PM0190

**Report No.:** EH/2012/40017

**Issue Date:** Jul. 17, 2012

**FCC Rule Part:** 2, 22H & 24E

**IC Rule Part:** RSS 132, Issue 2 and RSS 133, Issue 5

**Prepared for:** Sony Mobile Communications AB  
Nya Vattentornet 22188 Lund/SWEDEN  
SGS Taiwan Ltd.

**Prepared by:** Electronics & Communication Laboratory  
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Zone, Taipei County, Taiwan.

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## VERIFICATION OF COMPLIANCE

**Applicant:** Sony Mobile Communications AB  
Nya Vattentorget 22188 Lund/SWEDEN

**Product Name:** Mobile Phone

**Brand Name:** Sony

**Marketing Name:** ST23a

**Model No.:** PM-0190-BV

**Model Difference:** N/A

**FCC ID:** PY7PM-0190

**IC:** 4170B-PM0190

**File Number:** EH/2012/40017

**Date of test:** Apr. 17, 2012 ~ May. 25, 2012

**Date of EUT Received:** Apr. 17, 2012

### We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-C-2004, Issue 3 of RSS-Gen and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rule PART 22 subpart H, PART 24 subpart E and IC standards Issue 2 of RSS-132, Issue 5 of RSS-133.

The test results of this report relate only to the tested sample identified in this report.

**Test By:**

*Jay Lin*

**Date:**

Jul. 17, 2012

*Jay Lin / Engineer*

**Prepared By:**

*Tiffany Kao*

**Date:**

Jul. 17, 2012

*Tiffany Kao / Clerk*

**Approved By:**

*Jim Chang*

**Date:**

Jul. 17, 2012

*Jim Chang / Supervisor*

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## Version

Version No.	Date	Description
00	May. 28, 2012	Initial creation of document
01	Jul. 17, 2012	Correct battery model no. in consistent with customer's package of actual selling, and testing.

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## 1. GENERAL PRODUCT INFORMATION

### General:

Product Name:	Mobile Phone	
Brand Name:	Sony	
Marketing Name:	ST23a	
Model No.:	PM-0190-BV	
Model difference:	N/A	
Data Cable (USB):	Model No.: EC450, Supplier: K-one, Part No.: 1242-6715	
Simple Hands-free (SHF):	Model No.: MH410C, Supplier: Foster Electric Type No.: CCA-0004017	
Car Charger:	Model No.: AN400, Supplier: Salcomp, Type No.: CAA-0003013	
Power Supply:	3.7Vdc form Li-Ion battery or 5Vdc form adapter.	
	Battery:	1. Model No.: BA700, Supplier: LG Type No.: CBA-0002025 2. Model No.: BA700, Supplier: Samsung Type No.: CBA-0002026
	Adapter :	1. Model No.: EP800, Supplier: Salcomp Type No.: CAA-0002016-US, CAA-0002016-BV 2. Model No.: EP800, Supplier: EMERSON Type No.: CAA-0002022-US, CAA-0002022-BV

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GSM and WCDMA:

Cellular Phone Standards Frequency Range and Power:	Operating Frequency		Rated Power
	GSM/GPRS 850, Class 12	824 MHz– 849MHz	33 dBm
	EDGE 850, Class 12	824 MHz– 849MHz	33 dBm
	GSM/GPRS 1900, Class 12	1850MHz – 1910MHz	30 dBm
	EDGE 1900, Class 12	1850MHz – 1910MHz	30 dBm
	WCDMA / HSDPA / HSUPA Band II	1852.4MHz – 1907.6MHz	27 dBm
	WCDMA / HSDPA / HSUPA Band V	826.40 MHz– 846.60MHz	27 dBm
Type of Emission	GSM 850: 243KGXW, GSM 1900: 244KGXW GPRS 850: 248KGXW, GPRS 1900: 248KGXW EDGE 850: 248KG7W, EDGE 1900: 249KG7W WCDMA Band II: 4M17F9W WCDMA Band V: 4M18F9W HSDPA Band II: 4M18F9W HSDPA Band V: 4M18F9W HSUPA Band II: 4M17F9W HSUPA Band V: 4M19F9W		
Hardware Version:	A		
Software Version:	2.3.J.3.8_userdebug		
IMEI:	004402145485854		

This test report applies for GSM/GPRS/EDGE 850/1900, WCDMA/HSDPA/HSUPA band II / V.

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Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	3.7 Vdc	330
GSM 1900	3.7 Vdc	230
GPRS 850	3.7 Vdc	300
GPRS 1900	3.7 Vdc	200
EDGE 850	3.7 Vdc	180
EDGE 1900	3.7 Vdc	150
WCDMA B2	3.7 Vdc	500
WCDMA B5	3.7 Vdc	510
HSDPA B2	3.7 Vdc	490
HSDPA B5	3.7 Vdc	500
HSUPA B2	3.7 Vdc	490
HSUPA B5	3.7 Vdc	500

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### 1.1. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: PY7PM-0190** filing to comply with Section Part 22 subpart H, Part 24 subpart E of the FCC CFR 47 Rules and **IC: 4170B-PM0190** filing to comply with Issue 2 of RSS-132, Issue 5 of RSS-133.

### 1.2. Test Methodology

Both conducted and radiated testing were performed according to the procedures document of TIA/EIA 603C and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, issue 2 of RSS-132 and issue 3 of RSS-133.

The Output power Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, WCDMA / HSDPA) was used for EUT and Base station setting.

### 1.3. Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-4

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644.

All equipment is calibrated externally and traceable to SI (International System of Unit).

### 1.4. Special Accessories

Not available for this EUT intended for grant.

### 1.5. Equipment Modifications

Not available for this EUT intended for grant.

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## 2. SYSTEM TEST CONFIGURATION

### 2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2. EUT Exercise

The EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency which was for the purpose of the measurements.

### 2.3. Test Procedure

#### 2.3.1 Conducted Measurement at Antenna Port:

According to measurement procured TIA/EIA 603C, the EUT is placed on a turn table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

#### 2.3.2 Radiated Emissions (ERP/EIRP):

According to measurement procured TIA/EIA 603C and RSS-Gen Issue 3, The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13 of ANSI C63.4:2003.

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## 2.4. Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Sensor	Anritsu	ML2495A	1005007	02/08/2012	02/07/2014
Power Meter	Anritsu	MA2411B	917032	02/08/2012	02/07/2014
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/15/2011	04/14/2013
Spectrum Analyzer	Agilent	E4440A	US41160416	03/17/2012	03/16/2014
Radio Communication Analyzer	R & S	CMU200	102189	08/12/2010	08/11/2012
WIDEB. RADIO COMIN. TESTER	R & S	CMW500	101582	07/12/2010	07/11/2012
Temperature Chamber	TERCHY	MHG-120LF	911009	04/16/2012	04/15/2014
DC Block	Mini-Circuits	BLK-18-S+	1	02/28/2012	02/27/2013
Attenuator	Mini-Circuit	BW-S10W2+	002	02/28/2012	02/27/2013
Splitter	Agilent	11636B	N/A	02/28/2012	02/27/2013
DC Power Supply	Agilent	E3640A	MY40005907	07/15/2011	07/14/2013

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**ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber**

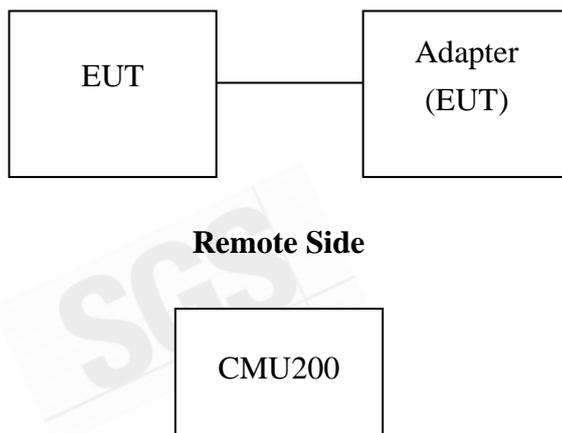
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/15/2011	04/14/2013
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	02/15/2011	02/14/2013
Spectrum Analyzer	R&S	FSV-30	101398	10/18/2011	10/17/2013
Bilog Antenna	SCHWAZBECK	VULB9168	378	01/10/2012	01/09/2014
Bilog Antenna	SCHWAZBECK	VULB9160	3158	11/24/2011	11/23/2013
Dipole Antenna	SCHWAZBECK	VHAP	908/909	07/17/2010	07/16/2012
Dipole Antenna	SCHWAZBECK	UHAP	891/892	07/17/2010	07/16/2012
Horn antenna	ETS.LINDGREN	3117	123995	05/19/2011	05/18/2013
Horn antenna	ETS.LINDGREN	3117	123995	05/19/2011	05/18/2013
Horn Antenna	Schwarzbeck	BBHA9170	184	01/17/2012	01/17/2014
Horn Antenna	Schwarzbeck	BBHA9170	185	07/11/2011	07/10/2013
RF amplifier	Miteq	AMF-6F-2600 400-40-8P	971576	12/28/2011	12/27/2012
Signal Generator	R&S	SMR40	100210	02/02/2012	02/01/2014
Signal Generator	Agilent	E4438C	MY45093613	07/15/2011	07/14/2013
Pre-Amplifier	Agilent	8447D	1937A02834	01/04/2012	01/03/2013
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/04/2012	01/03/2013
Attenuator	Mini-Circuit	BW-S10W2+	004	02/28/2012	02/27/2013
Radio Communication Analyzer	R & S	CMU200	102189	08/12/2010	08/11/2012
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	966_Tx	10m	01/04/2012	01/03/2013
Low Loss Cable	HUBER+SUHNER	966_Rx	3m	01/04/2012	01/03/2013
Filter 800-1000	Micro-Tronics	EWT	M2	05/25/2011	05/24/2013
Filter 1800-2000	Micro-Tronics	EWT	M2	05/25/2011	05/24/2013
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	02/28/2012	02/27/2013
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	02/28/2012	02/27/2013
3m Site NSA	SGS	966 chamber	N/A	07/15/2011	07/14/2012

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## 2.5. Configuration of Tested System

**Fig. 2-1 Configuration of Tested System (Fixed Channel)**



**Table 2-1 Equipment Used in Tested System**

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	Adapter	Salcomp / EMERSON	EP800	N/A	shielded	Un-shielded
2.	Universal Radio Communication Tester	R&S	CMU200	102189	shielded	Un-shielded

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### 3. SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§2.1046(a)	N/A	RF Power Output	Compliant
§2.1046(a) §22.913(a)(2) §24.232(c)	§4.8 (RSS-Gen Issue 3) §4.4 (RSS-132) §6.4 (RSS-133)	ERP/ EIRP measurement	Compliant
§2.1049(h)	§4.6.1 (RSS-Gen Issue 3) §2.3 (RSS-133)	99% Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a)	§4.9 (RSS-Gen Issue 3) §4.5 (RSS-132) §6.5 (RSS-133)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a)	§4.9 (RSS-Gen Issue 3) §4.5 (RSS-132) §6.5 (RSS-133)	Field Strength of Spurious Radiation	Compliant
§2.1055(a)(1) §22.355 §24.235	§4.7 (RSS-Gen Issue 3) §4.3 (RSS-132) §6.3 (RSS-133)	Frequency Stability vs. Temperature	Compliant
§2.1055(d)(2) §22.355 §24.235	§4.7 (RSS-Gen Issue 3) §4.3 (RSS-132) §6.3 (RSS-133)	Frequency Stability vs. Voltage	Compliant
N/A	§4.10 (RSS-Gen Issue 3) §4.6 (RSS-132) §6.6 (RSS-133)	Receiver Spurious Emissions	N/A

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Max ERP/EIRP measurement result:

	dBm		W
GSM 850 Band	25.43	ERP	0.349
GSM 1900 Band	31.38	EIRP	1.374
GPRS 850 Band	25.44	ERP	0.350
GPRS 1900 Band	31.35	EIRP	1.365
EDGE 850 Band	24.68	ERP	0.294
EDGE 1900 Band	30.83	EIRP	1.211
WCDMA Band II	26.41	EIRP	0.438
WCDMA Band V	21.94	ERP	0.156
HSDPA Band II	27.18	EIRP	0.522
HSDPA Band V	22.32	ERP	0.171
HSUPA Band II	27.45	EIRP	0.556
HSUPA Band V	22.41	ERP	0.174

#### 4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

EUT staying in continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing.

The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for GSM/GPRS/EDGE and WCDMA/HSDPA/HSUPA Band II and V with power adaptor. The worst-case of H position for GPRS 850 and HSUPA Band V, E1 position for GSM 1900 and HSUPA Band II were reported.

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## 5. MEASUREMENT UNCERTAINTY FOR FIELD STRENGTH OF SPURIOUS RADIATION

Measurement uncertainty (Polarization : <b>Vertical</b> )	30MHz - 180MHz: 3.37dB
	180MHz -417MHz: 3.19dB
	0.417GHz-1GHz: 3.19dB
	1GHz - 18GHz: 4.04dB
	18GHz - 40GHz: 4.04dB

Measurement uncertainty (Polarization : <b>Horizontal</b> )	30MHz - 167MHz: 4.22dB
	167MHz -500MHz: 3.44dB
	0.5GHz-1GHz: 3.39dB
	1GHz - 18GHz: 4.08dB
	18GHz - 40GHz: 4.08dB

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## 6. RF POWER OUTPUT MEASUREMENT

### 6.1 Standard Applicable:

According to FCC §2.1046.

FCC 22.913(a) Mobile station are limited to 7W.

FCC 24.232(C) Peak Power Measurement to 2W.

3GPP Power limitation for HSDPA and HSUPA

Maximum Output Powers for HSDPA

Sub-test in table C.10.1.4	Power Class 3		Power Class 4	
	Power (dBm)	Tol (dB)	Power (dBm)	Tol (dB)
1	+24	+1.7/-3.7	+21	+2.7/-2.7
2	+24	+1.7/-3.7	+21	+2.7/-2.7
3	+23.5	+2.2/-3.7	+20.5	+3.2/-2.7
4	+23.5	+2.2/-3.7	+20.5	+3.2/-2.7

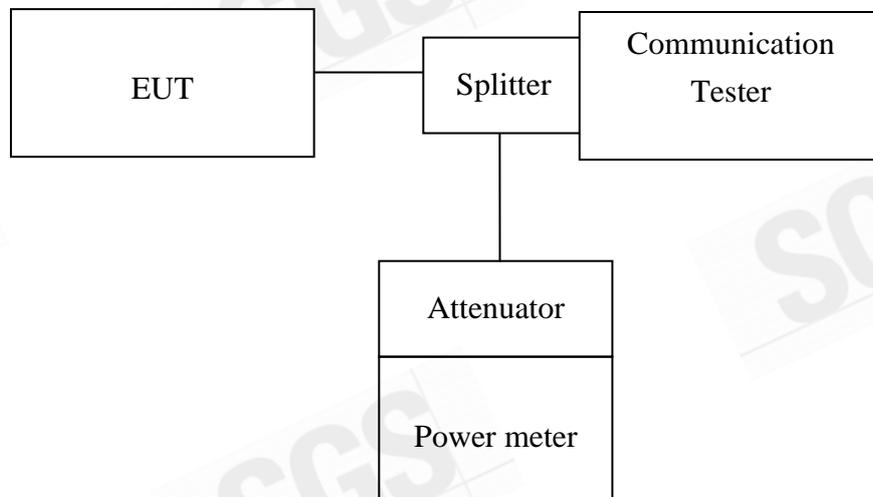
Maximum Output Powers for HSUPA

Sub-test in table C.11.1.3	Power Class 3		Power Class 4	
	Power (dBm)	Tol (dB)	Power (dBm)	Tol (dB)
1	+24	+1.7/-6.7	+21	+2.7/-5.7
2	+22	+3.7/-5.2	+19	+4.7/-4.2
3	+23	+2.7/-5.2	+20	+3.7/-4.2
4	+22	+3.7/-5.2	+19	+4.7/-4.2
5	+24	+1.7/-6.7	+21	+2.7/-5.7

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## 6.2 Test Set-up:



*Note: Measurement setup for testing on Antenna connector*

## 6.3 Measurement Procedure:

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. The Procedure of KDB941225 KDB941125 (SAR Measurement Procedures for 3G devices, WCDMA/HSDPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing

## 6.4 Measurement Equipment Used:

Refer to section 2.4 in this report

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## 6.5 Measurement Result:

### 6.5.1 RF Conducted Output Power

#### 6.5.1.1. GSM/GPRS/EDGE (GMSK; 8-PSK)

#### Result:

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Burst Power (dBm)
GSM 850	824.2	128	34.60	34.30
	836.6	190	34.70	34.40
	848.8	251	34.80	34.40

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Burst Power (dBm)
GSM 1900	1850.2	512	31.90	31.50
	1880.0	661	32.00	31.70
	1909.8	810	30.80	30.70

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
GPRS 850	824.2	128	34.50	34.30	29.80	29.70
	836.6	190	34.60	34.40	29.70	29.60
	848.8	251	34.70	34.40	29.70	29.50

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 3UP) Class 11 (dBm)	Average Burst Power (4DN 3UP) Class 11 (dBm)	Peak Power (4DN 4UP) Class 12 (dBm)	Average Burst Power (4DN 4UP) Class 12 (dBm)
GPRS 850	824.2	128	28.60	28.40	28.60	28.50
	836.6	190	28.50	28.40	28.60	28.50
	848.8	251	28.50	28.40	28.60	28.50

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EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
GPRS 1900	1850.2	512	32.00	31.60	29.00	28.90
	1880.0	661	31.40	31.20	28.50	28.40
	1909.8	810	30.50	30.40	28.00	27.90

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 3UP) Class 11 (dBm)	Average Burst Power (4DN 3UP) Class 11 (dBm)	Peak Power (4DN 4UP) Class 12 (dBm)	Average Burst Power (4DN 4UP) Class 12 (dBm)
GPRS 1900	1850.2	512	28.00	27.90	26.90	26.80
	1880.0	661	27.50	27.40	26.50	26.40
	1909.8	810	27.90	26.80	25.90	25.80

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
EDGE 850	824.2	128	30.60	27.30	30.60	27.30
	836.6	190	30.50	27.30	30.50	27.30
	848.8	251	30.40	27.20	30.40	27.20

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 3UP) Class 11 (dBm)	Average Burst Power (4DN 3UP) Class 11 (dBm)	Peak Power (4DN 4UP) Class 12 (dBm)	Average Burst Power (4DN 4UP) Class 12 (dBm)
EDGE 850	824.2	128	30.50	27.20	30.40	27.10
	836.6	190	30.50	27.20	30.40	27.10
	848.8	251	30.40	27.10	30.30	27.00

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EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
EDGE 1900	1850.2	512	29.60	26.50	29.70	26.50
	1880.0	661	29.20	26.10	29.30	26.10
	1909.8	810	28.90	25.80	28.60	25.50

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 3UP) Class 11 (dBm)	Average Burst Power (4DN 3UP) Class 11 (dBm)	Peak Power (4DN 4UP) Class 12 (dBm)	Average Burst Power (4DN 4UP) Class 12 (dBm)
EDGE 1900	1850.2	512	29.70	26.50	29.60	26.40
	1880.0	661	29.30	26.10	29.20	26.10
	1909.8	810	28.60	25.40	28.50	25.40

Cable loss offset Low Band: 0.5 dB

Cable loss offset High Band: 0.7 dB

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### 6.5.1.2 WCDMA mode

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 V8.4.0 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7). RMC 12.2kps is used for this testing.

#### Results:

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Power (dBm)
WCDMA Band II	1852.4	9262	25.78	22.20
	1880.0	9400	25.53	21.83
	1907.6	9538	25.57	22.11

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Power (dBm)
WCDMA Band V	826.40	4132	27.74	24.27
	836.60	4183	27.84	24.29
	846.60	4233	27.76	24.26

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Power (dBm)
HSDPA Band II	1852.40	9262	25.63	22.12
	1880.00	9400	25.40	21.75
	1907.60	9538	25.69	22.07

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Power (dBm)
HSDPA Band V	826.40	4132	27.18	23.39
	836.60	4183	27.28	23.45
	846.60	4233	27.29	23.50

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EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg Power (dBm)
HSUPA Band II	1852.40	9262	25.74	22.04
	1880.00	9400	25.21	21.63
	1907.60	9538	25.27	21.93

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg Power (dBm)
HSUPA Band V	826.40	4132	27.16	23.33
	836.60	4183	27.18	23.34
	846.60	4233	27.27	23.40

Note: The results above reflect max power with all up bits.

Cable loss offset Low Band: 0.5 dB

Cable loss offset High Band: 0.8 dB

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### 6.5.1.3. HSDPA Release 6 mode

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing

### HSDPA SUB-TEST Setting

Table C.10.1.4:  $\beta$  values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

Sub-test	$\beta_c$	$\beta_a$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}$ (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)	RMC (Kbps)
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

Note: The recommended HSDPA MPRs are implemented as per following sub-tests.

### Results:

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSDPA B2	1	22.37	21.72	21.97	20.3dBm – 25.7dBm	Pass
	2	22.08	21.69	21.96	20.3dBm – 25.7dBm	Pass
	3	21.89	21.27	21.44	19.8dBm – 25.7dBm	Pass
	4	21.96	21.28	21.56	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4172	4233		
HSDPA B5	1	24.06	24.15	24.38	20.3dBm – 25.7dBm	Pass
	2	24.20	24.18	24.13	20.3dBm – 25.7dBm	Pass
	3	23.60	23.67	23.89	19.8dBm – 25.7dBm	Pass
	4	23.65	23.71	23.05	19.8dBm – 25.7dBm	Pass

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#### 6.5.1.4.: HSPA (HSDPA & HSUPA) Release 6 mode

The following 5 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing

#### HSPA SUB-TEST Setting

Table C.11.1.3:  $\beta$  values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

Sub-test	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}$	$\beta_{ec}$	$\beta_{ed}$	$\beta_{ed}$ (SF)	$\beta_{ed}$ (Codes)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

**Note: The recommended HSUPA MPRs are implemented as per following sub-tests.**

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**Results:**

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		9262	9400	9538		
HSUPA(B2)	1	22.12	21.81	22.05	18.8dBm – 25.7dBm	Pass
	2	20.17	19.88	20.09	16.8dBm – 25.7dBm	Pass
	3	21.18	20.83	21.13	17.8dBm – 25.7dBm	Pass
	4	20.30	19.93	20.13	16.8dBm – 25.7dBm	Pass
	5	22.01	21.67	21.96	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		4132	4183	4233		
HSUPA(B5)	1	24.23	24.22	24.18	18.8dBm – 25.7dBm	Pass
	2	22.29	22.30	22.22	16.8dBm – 25.7dBm	Pass
	3	23.27	23.28	23.26	17.8dBm – 25.7dBm	Pass
	4	22.34	22.36	22.30	16.8dBm – 25.7dBm	Pass
	5	24.09	24.05	24.07	18.8dBm – 25.7dBm	Pass

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### 6.5.2. Minimum Communications Power Measurement

#### PCS 1900 band

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	31.70	28.30	26.40	24.30	22.30	20.30	18.40	16.40	14.30

PCL	9	10	11	12	13	14	15
Output power (dBm)	12.30	10.40	8.30	6.30	4.30	2.40	0.30

Note: The EUT output power was controlled by simulator. Set Communication Tester CMU200 PCL as above, and get the mobile phone output power reading.

#### WCDMA/HSDPA band II / V

The EUT output power was controlled by simulator. Set Communication Tester CMU200 function key "UE Power Control" and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. then record the read(see page 15 for measurement data) . The min. power was measures by a function key "minimum power" then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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## 7. ERP, EIRP MEASUREMENT

### 7.1. Standard Applicable:

According to FCC §2.1046

FCC 22.913(a) Mobile station are limited to 7W ERP.

FCC 24.232(b) Mobile station are limited to 2W EIRP.

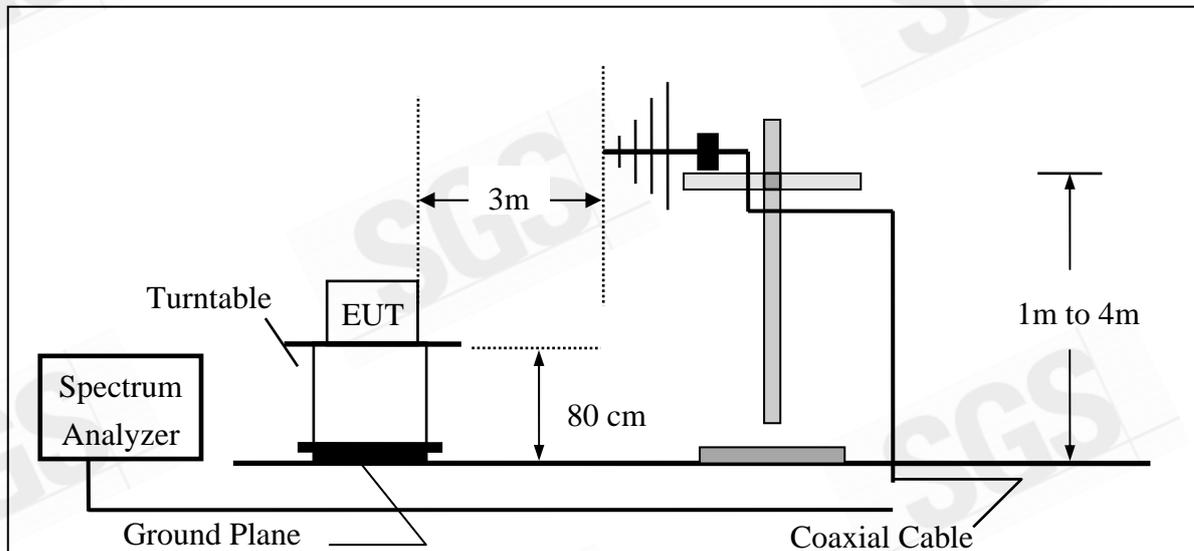
According to IC RSS-133 §6.4

The peak e.i.r.p. for transmitters operating in the band 1850-1910 MHz shall not exceed the limits 2W which given in SRSP-510.

According to issue 2 of RSS 132, section 4.4. The transmitter output power shall not exceed the limits given in SRSP-503.

### 7.2. Test SET-UP (Block Diagram of Configuration):

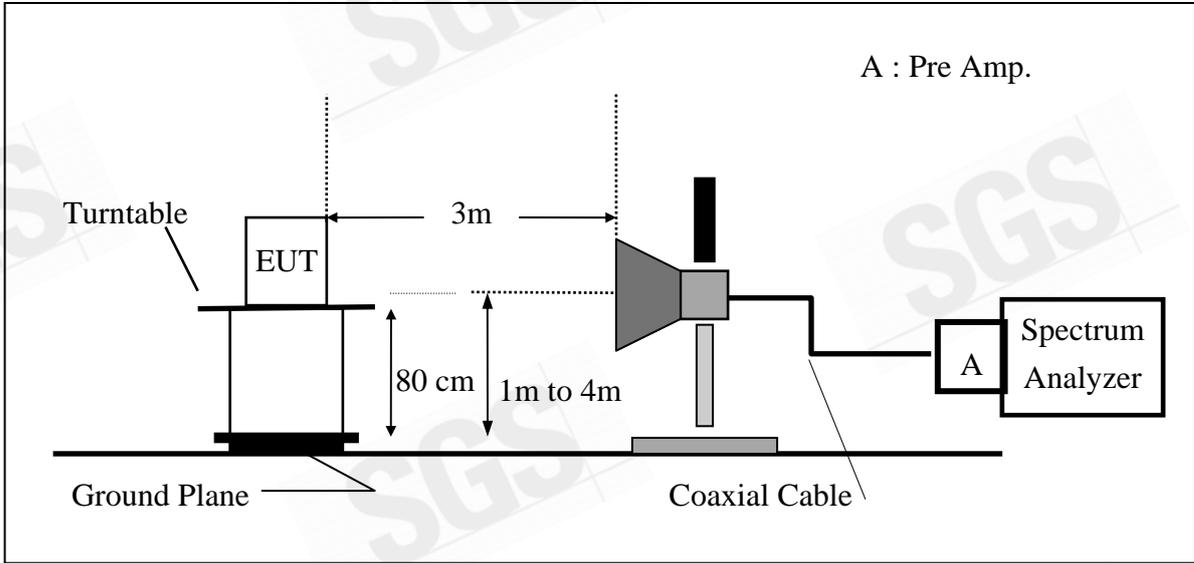
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



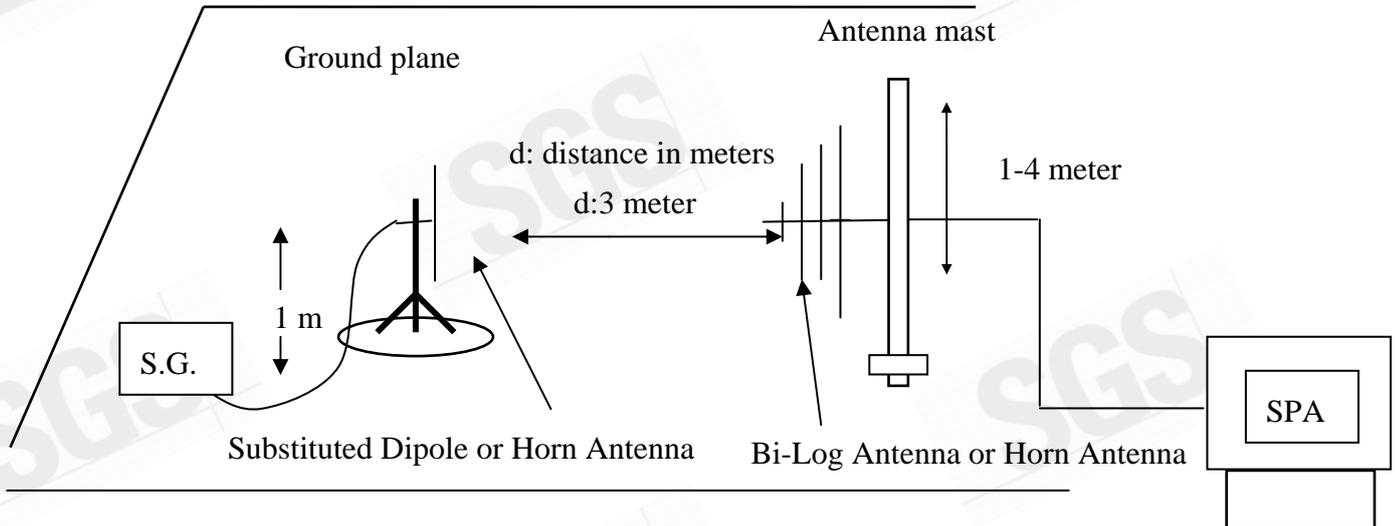
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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### 7.3. Measurement Procedure:

The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

During the measurement, the EUT was in communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824.2 –848.80MHz were measured using a substitution method. The EUT was replaced by a dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by a horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

### 7.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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**7.5. Measurement Result:**

EUT				Measurement						
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit	
		MHz		V/H	dBm	dBd	dB	dBm	dBm	
GSM 850	H	824.20	128	V	25.63	3.96	-4.22	25.37	38.45	
				H	20.48	3.96	-4.22	20.22	38.45	
		836.60	190	V	25.55	4.00	-4.24	25.31	38.45	
				H	20.30	4.00	-4.24	20.06	38.45	
		848.80	251	V	25.73	4.03	-4.33	<b>25.43</b>	38.45	
				H	20.76	4.03	-4.33	20.46	38.45	
	E1	824.20	128	V	22.28	3.96	-4.22	22.02	38.45	
				H	24.59	3.96	-4.22	24.33	38.45	
		836.60	190	V	22.24	4.00	-4.24	22.00	38.45	
				H	24.15	4.00	-4.24	23.91	38.45	
		848.80	251	V	22.79	4.03	-4.33	22.49	38.45	
				H	24.21	4.03	-4.33	23.91	38.45	
		E2	824.20	128	V	20.90	3.96	-4.22	20.64	38.45
					H	24.96	3.96	-4.22	24.70	38.45
	836.60		190	V	20.61	4.00	-4.24	20.37	38.45	
				H	24.97	4.00	-4.24	24.73	38.45	
	848.80		251	V	20.09	4.03	-4.33	19.79	38.45	
				H	25.20	4.03	-4.33	24.90	38.45	

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW=300 KHz, VBW=1MHz

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
GSM 1900	H	1850.20	512	V	30.57	4.17	-5.49	29.25	33.00
				H	27.68	4.51	-5.49	26.70	33.00
		1880.00	661	V	29.61	4.13	-5.56	28.18	33.00
				H	28.29	4.44	-5.56	27.17	33.00
		1909.80	810	V	28.86	4.09	-5.56	27.40	33.00
				H	29.49	4.36	-5.56	28.30	33.00
	E1	1850.20	512	V	31.27	4.17	-5.49	29.95	33.00
				H	24.78	4.51	-5.49	23.80	33.00
		1880.00	661	V	31.20	4.13	-5.56	29.77	33.00
				H	21.66	4.44	-5.56	20.53	33.00
		1909.80	810	V	32.84	4.09	-5.56	<b>31.38</b>	33.00
				H	22.69	4.36	-5.56	21.50	33.00
	E2	1850.20	512	V	27.74	4.17	-5.49	26.43	33.00
				H	30.08	4.51	-5.49	29.10	33.00
		1880.00	661	V	28.19	4.13	-5.56	26.76	33.00
				H	29.72	4.44	-5.56	28.60	33.00
		1909.80	810	V	28.97	4.09	-5.56	27.51	33.00
				H	29.94	4.36	-5.56	28.75	33.00

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW=300 KHz, VBW=1MHz

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
GPRS 850	H	824.20	128	V	25.02	3.96	-4.22	24.76	38.45
				H	20.59	3.96	-4.22	20.33	38.45
		836.60	190	V	25.54	4.00	-4.24	25.30	38.45
				H	20.28	4.00	-4.24	20.04	38.45
		848.80	251	V	25.74	4.03	-4.33	<b>25.44</b>	38.45
				H	20.62	4.03	-4.33	20.32	38.45
	E1	824.20	128	V	22.30	3.96	-4.22	22.05	38.45
				H	24.54	3.96	-4.22	24.28	38.45
		836.60	190	V	22.26	4.00	-4.24	22.02	38.45
				H	24.16	4.00	-4.24	23.92	38.45
		848.80	251	V	22.80	4.03	-4.33	22.50	38.45
				H	24.20	4.03	-4.33	23.90	38.45
	E2	824.20	128	V	20.70	3.96	-4.22	20.44	38.45
				H	24.96	3.96	-4.22	24.70	38.45
		836.60	190	V	20.42	4.00	-4.24	20.18	38.45
				H	24.97	4.00	-4.24	24.73	38.45
		848.80	251	V	19.95	4.03	-4.33	19.65	38.45
				H	25.16	4.03	-4.33	24.86	38.45

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW=300 KHz, VBW=1MHz

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
GPRS 1900	H	1850.20	512	V	30.72	4.17	-5.49	29.41	33.00
				H	27.98	4.51	-5.49	27.01	33.00
		1880.00	661	V	29.81	4.13	-5.56	28.38	33.00
				H	28.51	4.44	-5.56	27.38	33.00
		1909.80	810	V	28.85	4.10	-5.56	27.39	33.00
				H	29.35	4.36	-5.56	28.16	33.00
	E1	1850.20	512	V	31.15	4.17	-5.49	29.83	33.00
				H	24.77	4.51	-5.49	23.80	33.00
		1880.00	661	V	31.07	4.13	-5.56	29.64	33.00
				H	21.70	4.44	-5.56	20.58	33.00
		1909.80	810	V	32.81	4.09	-5.56	<b>31.35</b>	33.00
				H	22.73	4.36	-5.56	21.54	33.00
	E2	1850.20	512	V	28.43	4.17	-5.49	27.12	33.00
				H	30.09	4.51	-5.49	29.11	33.00
		1880.00	661	V	28.20	4.13	-5.56	26.78	33.00
				H	29.73	4.44	-5.56	28.61	33.00
		1909.80	810	V	29.05	4.09	-5.56	27.58	33.00
				H	29.95	4.36	-5.56	28.75	33.00

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW=300 KHz, VBW=1MHz

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
EDGE 850	H	824.20	128	V	22.77	3.96	-4.22	22.51	38.45
				H	16.71	3.96	-4.22	16.45	38.45
		836.60	190	V	24.46	4.00	-4.24	24.22	38.45
				H	16.94	4.00	-4.24	16.70	38.45
		848.80	251	V	24.98	4.03	-4.33	<b>24.68</b>	38.45
				H	18.03	4.03	-4.33	17.73	38.45
	E1	824.20	128	V	19.90	3.96	-4.22	19.64	38.45
				H	23.11	3.96	-4.22	22.85	38.45
		836.60	190	V	19.83	4.00	-4.24	19.59	38.45
				H	22.56	4.00	-4.24	22.32	38.45
		848.80	251	V	20.43	4.03	-4.33	20.13	38.45
				H	22.51	4.03	-4.33	22.21	38.45
	E2	824.20	128	V	18.11	3.96	-4.22	17.86	38.45
				H	23.71	3.96	-4.22	23.45	38.45
		836.60	190	V	17.89	4.00	-4.24	17.65	38.45
				H	23.76	4.00	-4.24	23.52	38.45
		848.80	251	V	17.43	4.03	-4.33	17.13	38.45
				H	23.95	4.03	-4.33	23.65	38.45

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW=300 KHz, VBW=1MHz

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
EDGE 1900	H	1850.20	512	V	28.65	4.17	-5.49	27.33	33.00
				H	25.82	4.51	-5.49	24.85	33.00
		1880.00	661	V	27.68	4.13	-5.56	26.26	33.00
				H	26.76	4.44	-5.56	25.64	33.00
		1909.80	810	V	26.87	4.09	-5.56	25.41	33.00
				H	27.47	4.36	-5.56	26.28	33.00
	E1	1850.20	512	V	30.49	4.17	-5.49	29.18	33.00
				H	24.12	4.51	-5.49	23.15	33.00
		1880.00	661	V	30.45	4.13	-5.56	29.02	33.00
				H	20.82	4.44	-5.56	19.69	33.00
		1909.80	810	V	32.29	4.09	-5.56	<b>30.83</b>	33.00
				H	21.21	4.36	-5.56	20.02	33.00
	E2	1850.20	512	V	27.74	4.17	-5.49	26.43	33.00
				H	29.41	4.51	-5.49	28.43	33.00
		1880.00	661	V	27.52	4.13	-5.56	26.09	33.00
				H	29.06	4.44	-5.56	27.94	33.00
		1909.80	810	V	28.38	4.09	-5.56	26.92	33.00
				H	29.34	4.36	-5.56	28.15	33.00

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW=300 KHz, VBW=1MHz

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA Band II	H	1852.40	9262	V	26.92	4.17	-5.49	25.60	33.00
				H	24.56	4.51	-5.49	23.58	33.00
		1880.00	9400	V	24.14	4.13	-5.56	22.72	33.00
				H	23.89	4.44	-5.56	22.77	33.00
		1907.60	9538	V	26.07	4.10	-5.62	24.55	33.00
				H	22.79	4.37	-5.62	21.53	33.00
	E1	1852.40	9262	V	27.73	4.17	-5.49	<b>26.41</b>	33.00
				H	22.36	4.51	-5.49	21.38	33.00
		1880.00	9400	V	25.24	4.13	-5.56	23.81	33.00
				H	19.54	4.44	-5.56	18.41	33.00
		1907.60	9538	V	27.71	4.10	-5.62	26.18	33.00
				H	19.14	4.37	-5.62	17.89	33.00
	E2	1852.40	9262	V	20.86	4.17	-5.49	19.54	33.00
				H	23.81	4.50	-5.49	22.83	33.00
		1880.00	9400	V	20.12	4.13	-5.56	18.69	33.00
				H	23.71	4.44	-5.56	22.58	33.00
		1907.60	9538	V	21.94	4.10	-5.62	20.42	33.00
				H	24.14	4.37	-5.62	22.89	33.00

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
WCDMA Band V	H	826.40	4132	V	21.21	3.97	-4.22	20.95	38.45
				H	14.36	3.97	-4.22	14.11	38.45
		836.60	4183	V	21.05	4.00	-4.24	20.81	38.45
				H	14.76	4.00	-4.24	14.52	38.45
		846.60	4233	V	22.16	4.02	-4.24	<b>21.94</b>	38.45
				H	18.39	4.02	-4.24	18.18	38.45
	E1	826.40	4132	V	15.33	3.97	-4.22	15.08	38.45
				H	20.13	3.97	-4.22	19.87	38.45
		836.60	4183	V	16.83	4.00	-4.24	16.59	38.45
				H	20.08	4.00	-4.24	19.84	38.45
		846.60	4233	V	17.33	4.02	-4.24	17.11	38.45
				H	19.63	4.02	-4.24	19.41	38.45
	E2	826.40	4132	V	13.56	3.97	-4.22	13.31	38.45
				H	21.29	3.97	-4.22	21.04	38.45
		836.60	4183	V	13.45	4.00	-4.24	13.21	38.45
				H	21.04	4.00	-4.24	20.80	38.45
		846.60	4233	V	13.88	4.02	-4.24	13.67	38.45
				H	21.03	4.02	-4.24	20.81	38.45

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
HSDPA Band II	H	1852.40	9262	V	28.04	4.17	-5.49	26.72	33.00
				H	25.62	4.51	-5.49	24.64	33.00
		1880.00	9400	V	25.30	4.14	-5.56	23.88	33.00
				H	24.96	4.44	-5.56	23.83	33.00
		1907.60	9538	V	26.93	4.10	-5.62	25.41	33.00
				H	23.76	4.37	-5.62	22.51	33.00
	E1	1852.40	9262	V	26.77	4.17	-5.49	25.45	33.00
				H	23.27	4.51	-5.49	22.29	33.00
		1880.00	9400	V	27.36	4.14	-5.56	25.93	33.00
				H	20.74	4.44	-5.56	19.62	33.00
		1907.60	9538	V	28.70	4.10	-5.62	<b>27.18</b>	33.00
				H	20.16	4.37	-5.62	18.91	33.00
	E2	1852.40	9262	V	21.99	4.17	-5.49	20.67	33.00
				H	24.82	4.50	-5.49	23.83	33.00
		1880.00	9400	V	21.25	4.13	-5.56	19.82	33.00
				H	24.61	4.44	-5.56	23.49	33.00
		1907.60	9538	V	22.99	4.10	-5.62	21.46	33.00
				H	24.93	4.37	-5.62	23.67	33.00

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
HSDPA Band V	H	826.40	4132	V	21.78	3.97	-4.22	21.53	38.45
				H	16.47	3.97	-4.22	16.22	38.45
		836.60	4183	V	21.82	4.00	-4.24	21.58	38.45
				H	16.08	3.99	-4.24	15.83	38.45
		846.60	4233	V	22.53	4.02	-4.24	<b>22.32</b>	38.45
				H	16.44	4.02	-4.24	16.22	38.45
	E1	826.40	4132	V	15.90	3.97	-4.22	15.65	38.45
				H	21.10	3.97	-4.22	20.85	38.45
		836.60	4183	V	17.79	4.00	-4.24	17.55	38.45
				H	21.23	4.00	-4.24	20.99	38.45
		846.60	4233	V	17.88	4.02	-4.24	17.66	38.45
				H	20.73	4.02	-4.24	20.51	38.45
	E2	826.40	4132	V	14.40	3.97	-4.22	14.14	38.45
				H	21.86	3.97	-4.22	21.61	38.45
		836.60	4183	V	14.40	4.00	-4.24	14.15	38.45
				H	21.74	4.00	-4.24	21.50	38.45
		846.60	4233	V	14.90	4.02	-4.24	14.68	38.45
				H	21.93	4.02	-4.24	21.71	38.45

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
HSUPA Band II	H	1852.4	9262	V	28.05	4.17	-5.49	26.73	33.00
				H	25.69	4.51	-5.49	24.71	33.00
		1880.0	9400	V	25.40	4.14	-5.56	23.97	33.00
				H	24.80	4.44	-5.56	23.68	33.00
		1907.6	9538	V	17.03	4.10	-5.62	15.50	33.00
				H	23.60	4.37	-5.62	22.35	33.00
	E1	1852.4	9262	V	28.77	4.17	-5.49	<b>27.45</b>	33.00
				H	16.73	4.51	-5.49	15.75	33.00
		1880.0	9400	V	26.52	4.14	-5.56	25.10	33.00
				H	17.35	4.44	-5.56	16.23	33.00
		1907.6	9538	V	25.99	4.10	-5.62	24.47	33.00
				H	18.92	4.37	-5.62	17.67	33.00
	E2	1852.4	9262	V	21.88	4.17	-5.49	20.56	33.00
				H	24.67	4.50	-5.49	23.68	33.00
		1880.0	9400	V	21.22	4.13	-5.56	19.80	33.00
				H	24.68	4.43	-5.56	23.55	33.00
		1907.6	9538	V	22.99	4.10	-5.62	21.47	33.00
				H	25.11	4.37	-5.62	23.86	33.00

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
HSUPA Band V	H	826.4	4132	V	22.47	3.97	-4.22	22.21	38.45
				H	15.97	3.97	-4.22	15.72	38.45
		836.6	4183	V	21.81	4.00	-4.24	21.57	38.45
				H	15.67	3.99	-4.24	15.43	38.45
		846.6	4233	V	22.62	4.02	-4.24	<b>22.41</b>	38.45
				H	15.99	4.02	-4.24	15.77	38.45
	E1	826.4	4132	V	16.51	3.97	-4.22	16.26	38.45
				H	20.52	3.97	-4.22	20.27	38.45
		836.6	4183	V	18.31	4.00	-4.24	18.07	38.45
				H	20.67	4.00	-4.24	20.43	38.45
		846.6	4233	V	18.29	4.02	-4.24	18.07	38.45
				H	19.94	4.02	-4.24	19.73	38.45
	E2	826.4	4132	V	14.20	3.97	-4.22	13.95	38.45
				H	21.91	3.97	-4.22	21.65	38.45
		836.6	4183	V	14.34	4.00	-4.24	14.10	38.45
				H	21.67	4.00	-4.24	21.43	38.45
		846.6	4233	V	14.68	4.02	-4.24	14.47	38.45
				H	21.99	4.02	-4.24	21.77	38.45

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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## 8. 99% OCCUPIED BANDWIDTH MEASUREMENT

### 8.1. Standard Applicable:

According to §FCC 2.1049.

According to IC RSS-Gen Issue 3 §4.6.1

According to IC RSS-133 §2.3

### 8.2. Test Set-up:

Refer to section 6.2 in this report

### 8.3. Measurement Procedure:

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

### 8.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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### 8.5. Measurement Result:

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (KHz)
GSM 850	824.20	128	242.1251
	836.60	190	241.1057
	848.80	251	243.1598

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (KHz)
GSM 1900	1850.20	512	242.4121
	1880.00	661	241.9028
	1909.80	810	243.7590

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (KHz)
GPRS 850	824.20	128	241.0742
	836.60	190	242.9847
	848.80	251	247.7702

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (KHz)
GPRS 1900	1850.20	512	247.9989
	1880.00	661	244.8463
	1909.80	810	243.1087

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (KHz)
EDGE 850	824.20	128	246.9390
	836.60	190	240.8366
	848.80	251	248.4005

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (KHz)
EDGE 1900	1850.20	512	248.9021
	1880.00	661	245.6498
	1909.80	810	245.3161

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA Band II	1852.40	9262	4.1650
	1880.00	9400	4.1636
	1907.60	9538	4.1542

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA Band V	826.40	4132	4.1807
	836.60	4183	4.1626
	846.60	4233	4.1509

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA Band II	1852.40	9262	4.1672
	1880.00	9400	4.1757
	1907.60	9538	4.1713

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA Band V	826.40	4132	4.1630
	836.60	4183	4.1794
	846.60	4233	4.1516

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA II	1852.4	9262	4.1695
	1880.0	9400	4.1687
	1907.6	9538	4.1484

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA V	826.40	4132	4.1889
	836.60	4183	4.1512
	846.60	4233	4.1684

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Figure 8-1: GSM 850 Channel Low

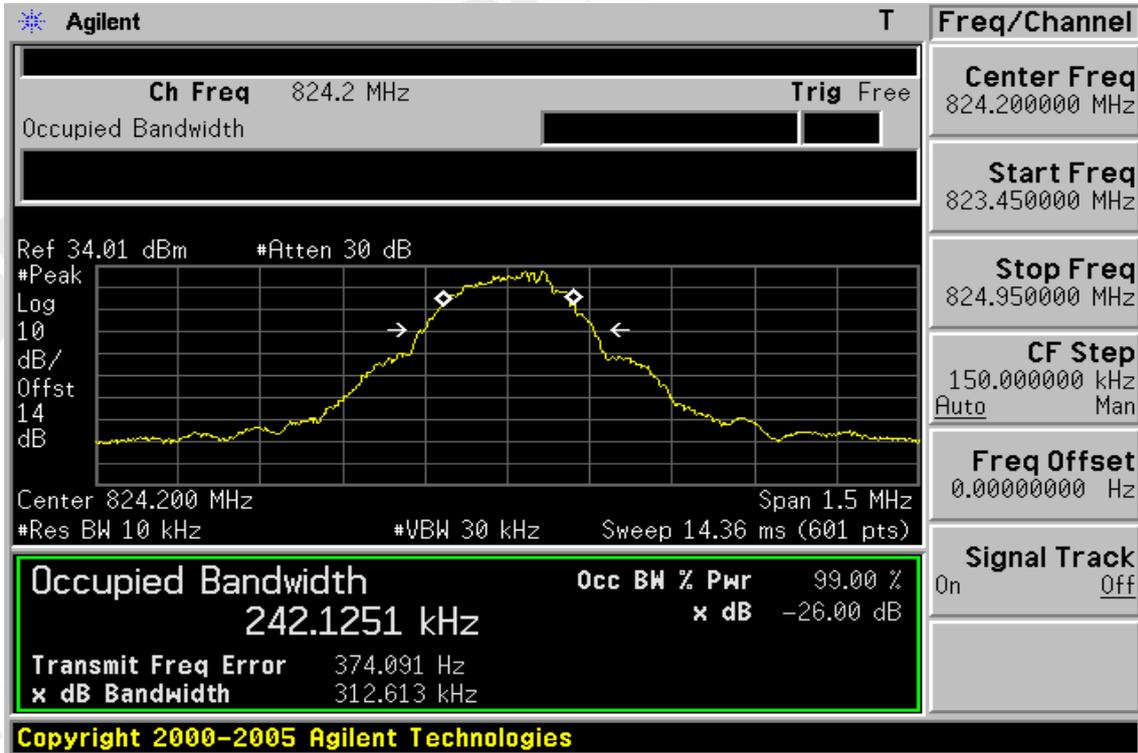
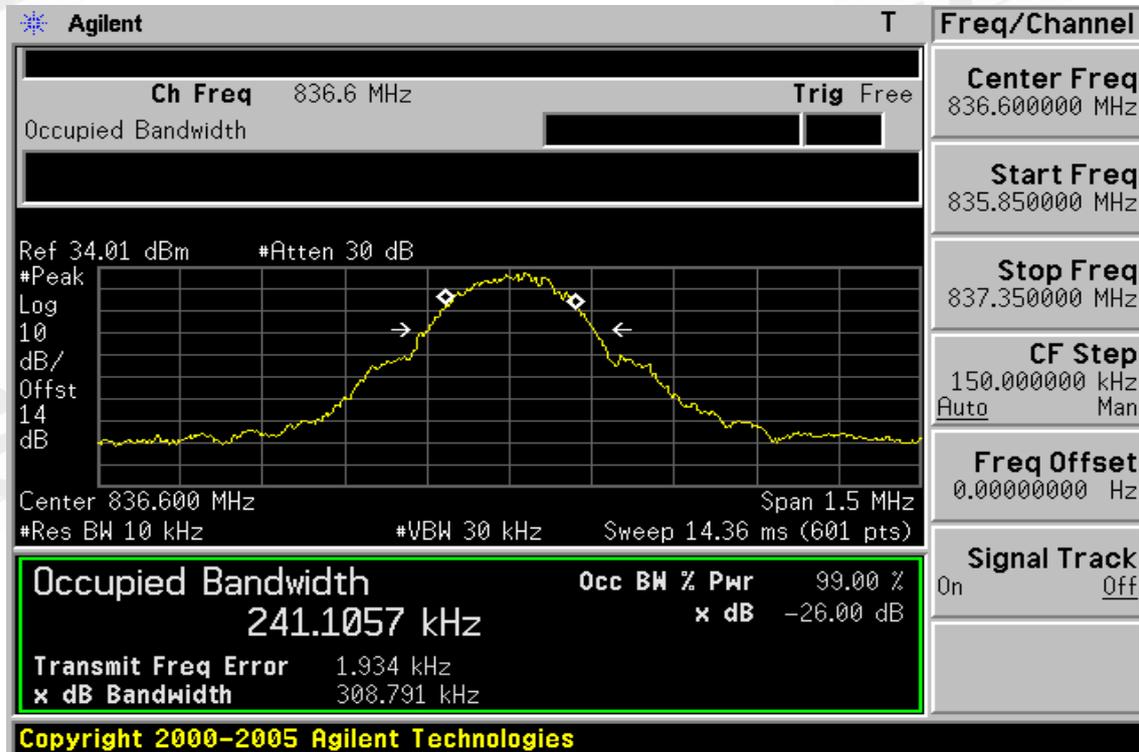


Figure 8-2: GSM 850 Channel Mid



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Figure 8-3: GSM 850 Channel High

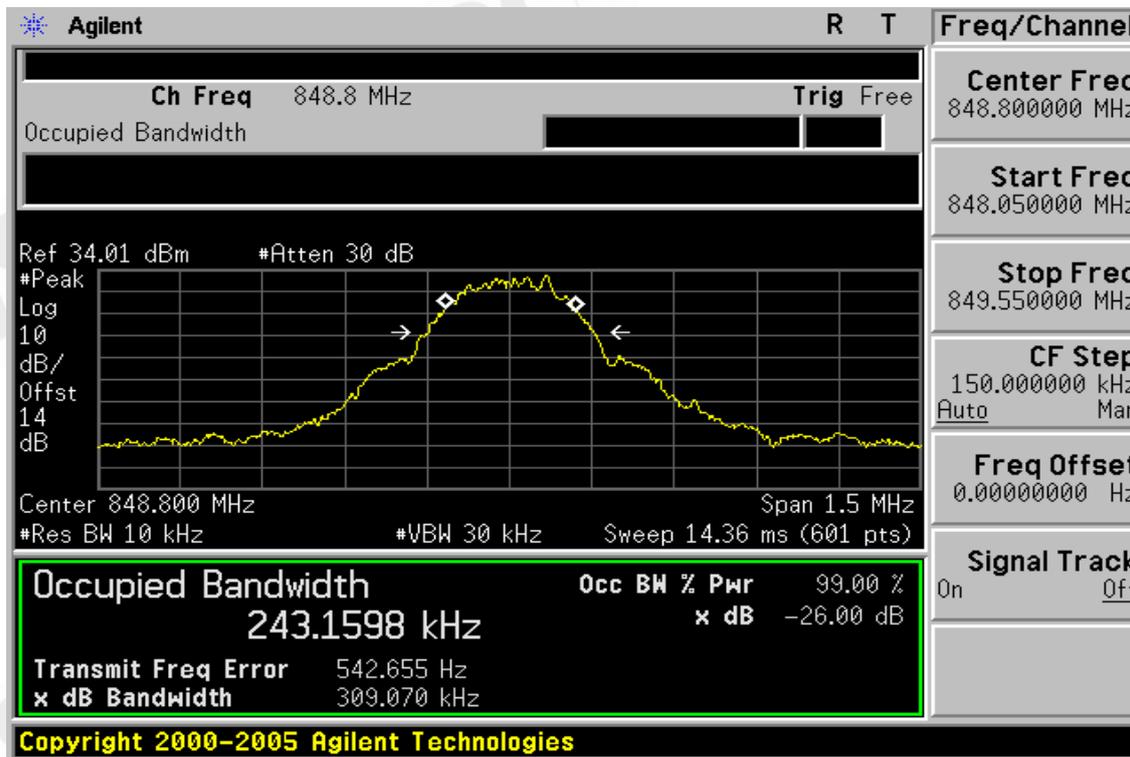
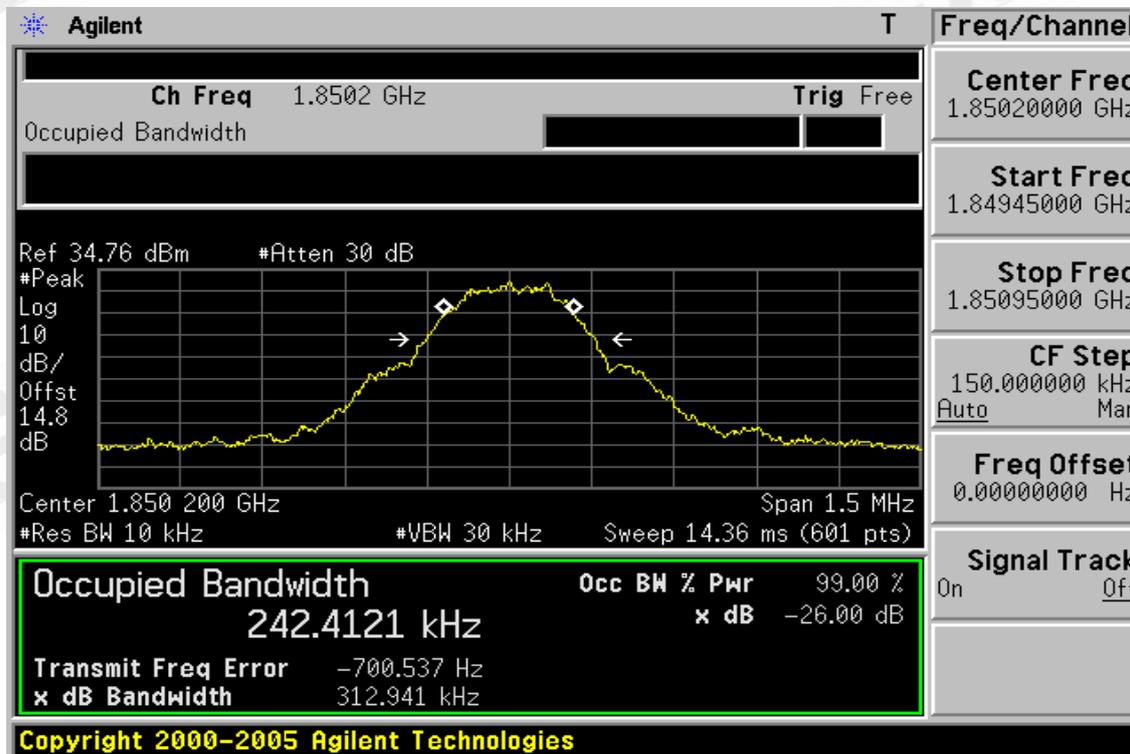


Figure 8-4: GSM 1900 Channel Low



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Figure 8-5: GSM 1900 Channel Mid

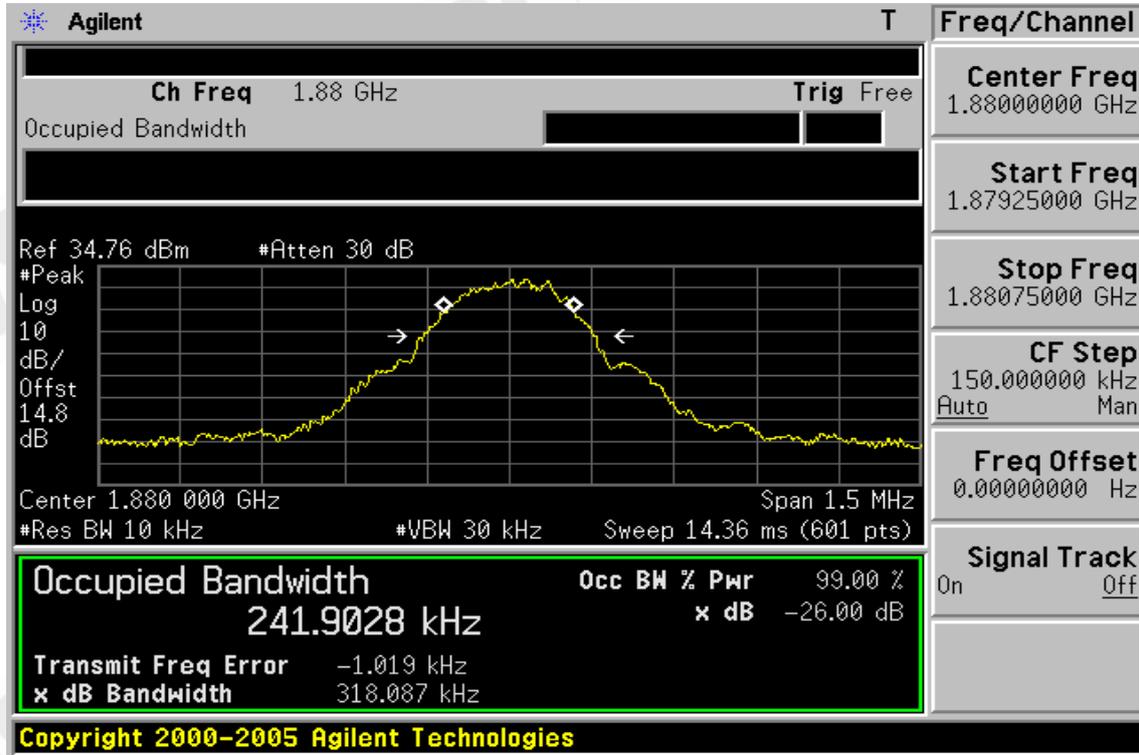
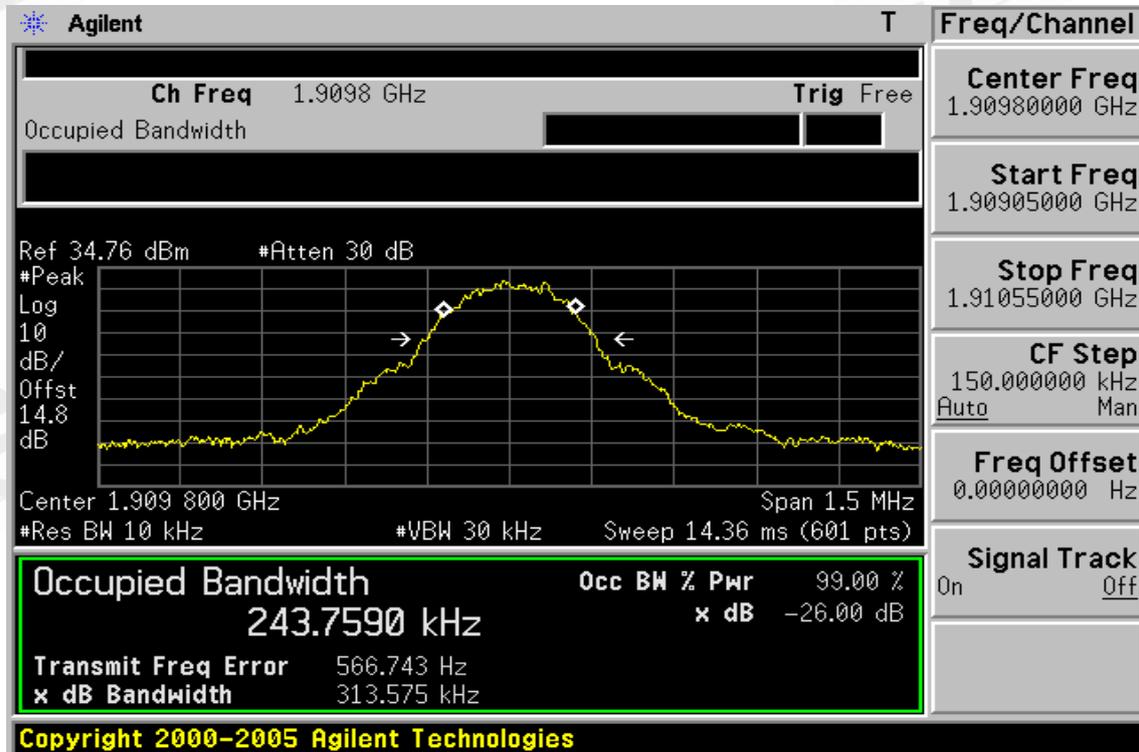


Figure 8-6: GSM 1900 Channel High



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Figure 8-7: GPRS 850 Channel Low

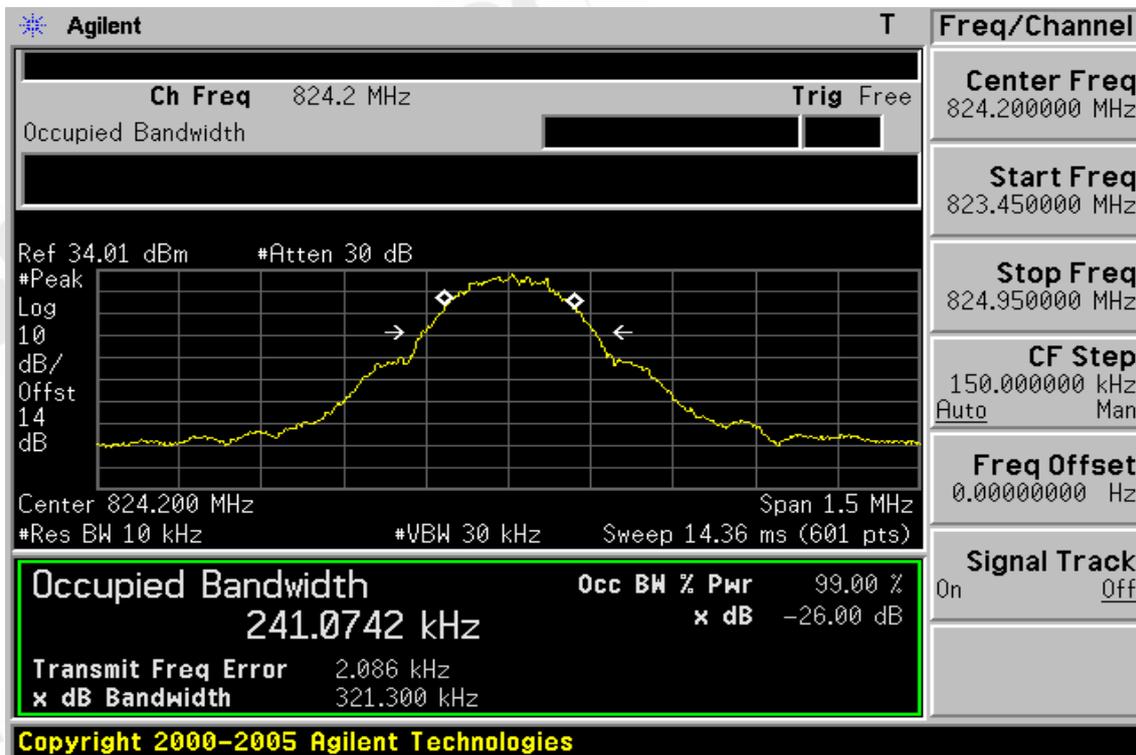
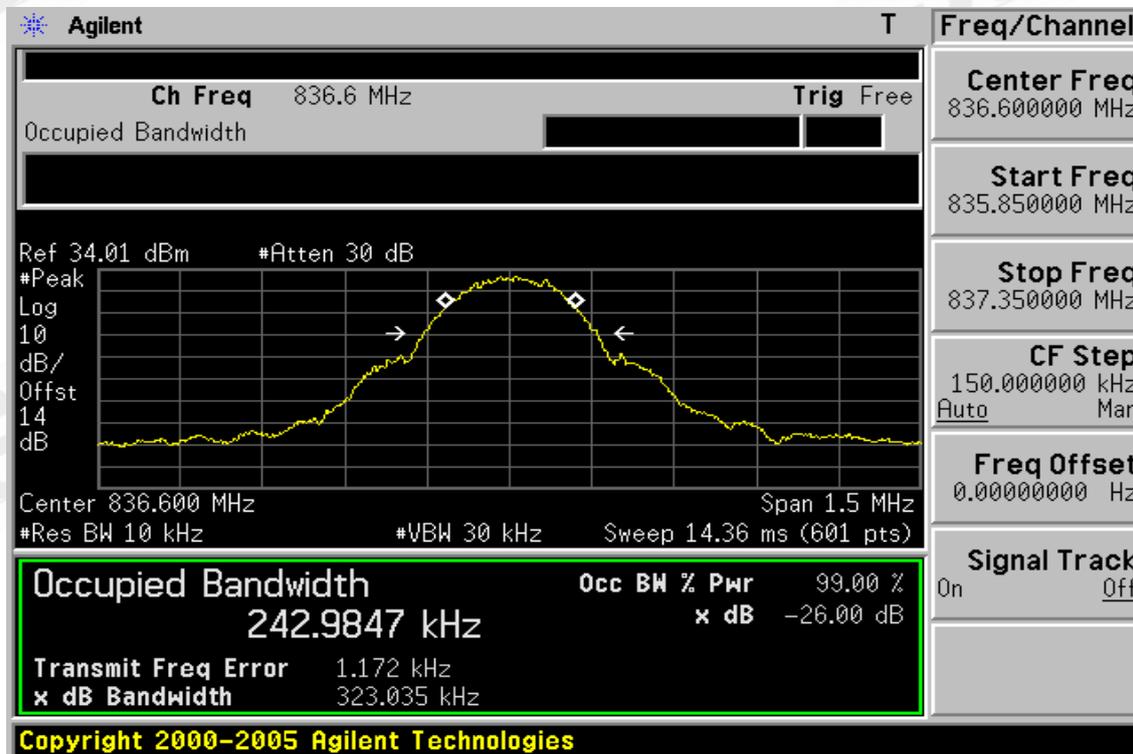


Figure 8-8: GPRS 850 Channel Mid



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Figure 8-9: GPRS 850 Channel High

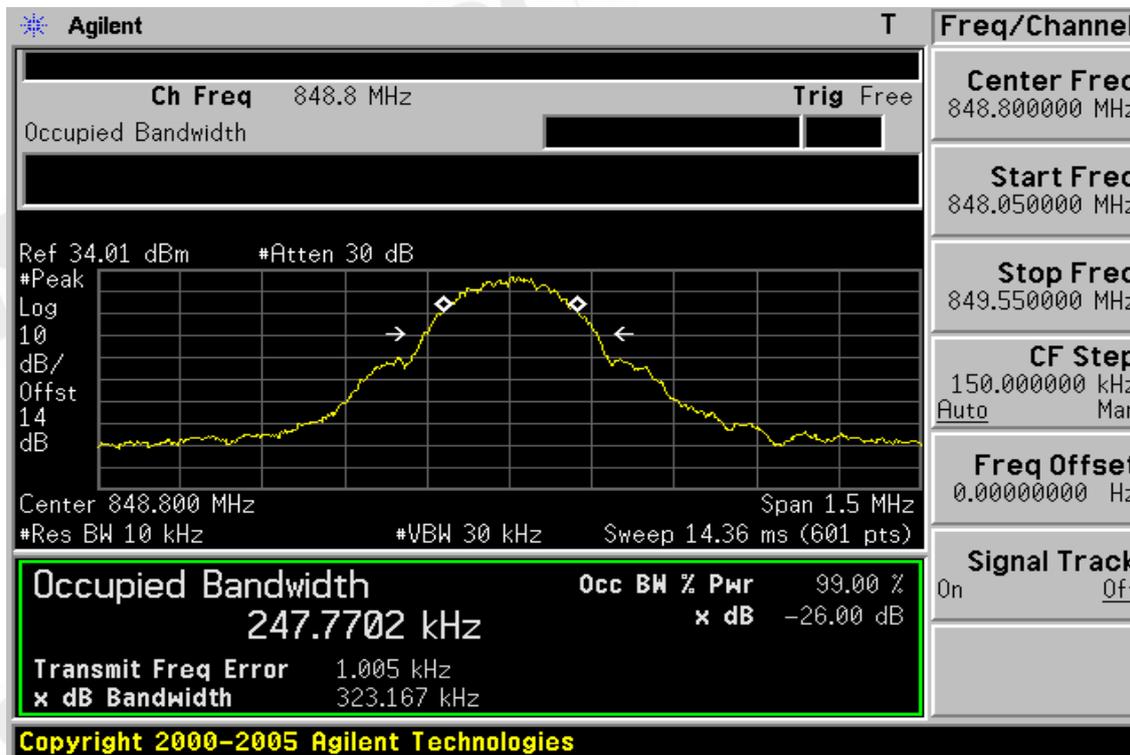
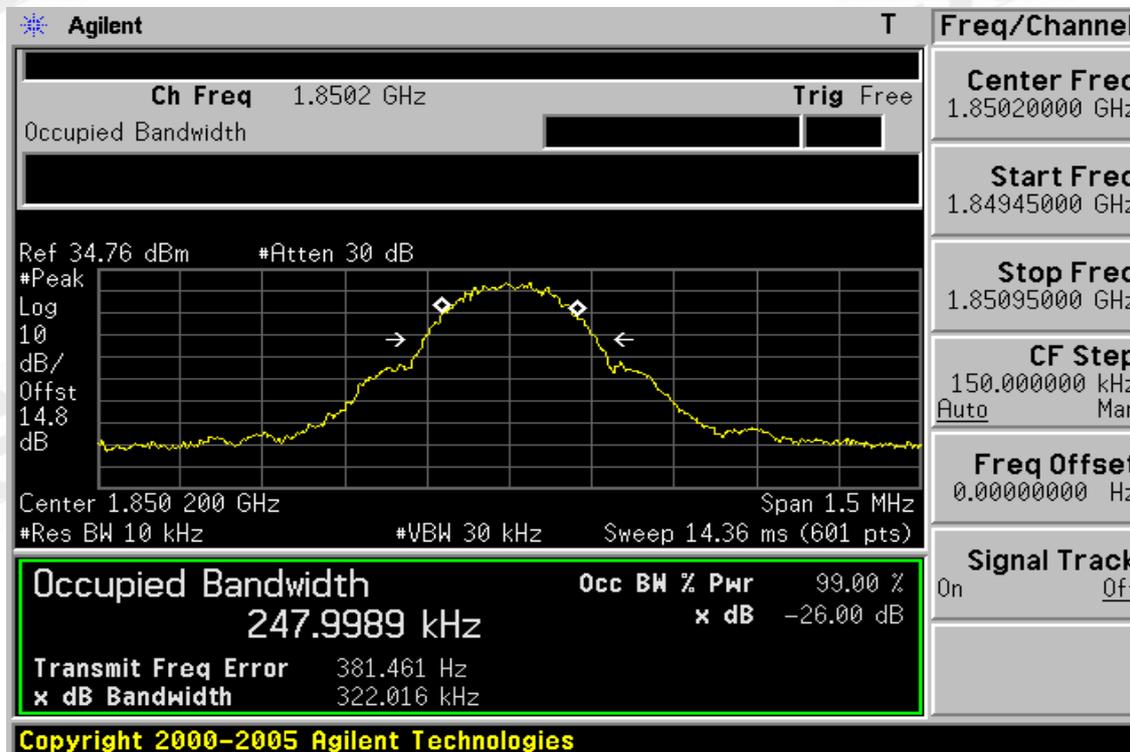


Figure 8-10: GPRS 1900 Channel Low



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Figure 8-11 GPRS 1900 Channel Mid

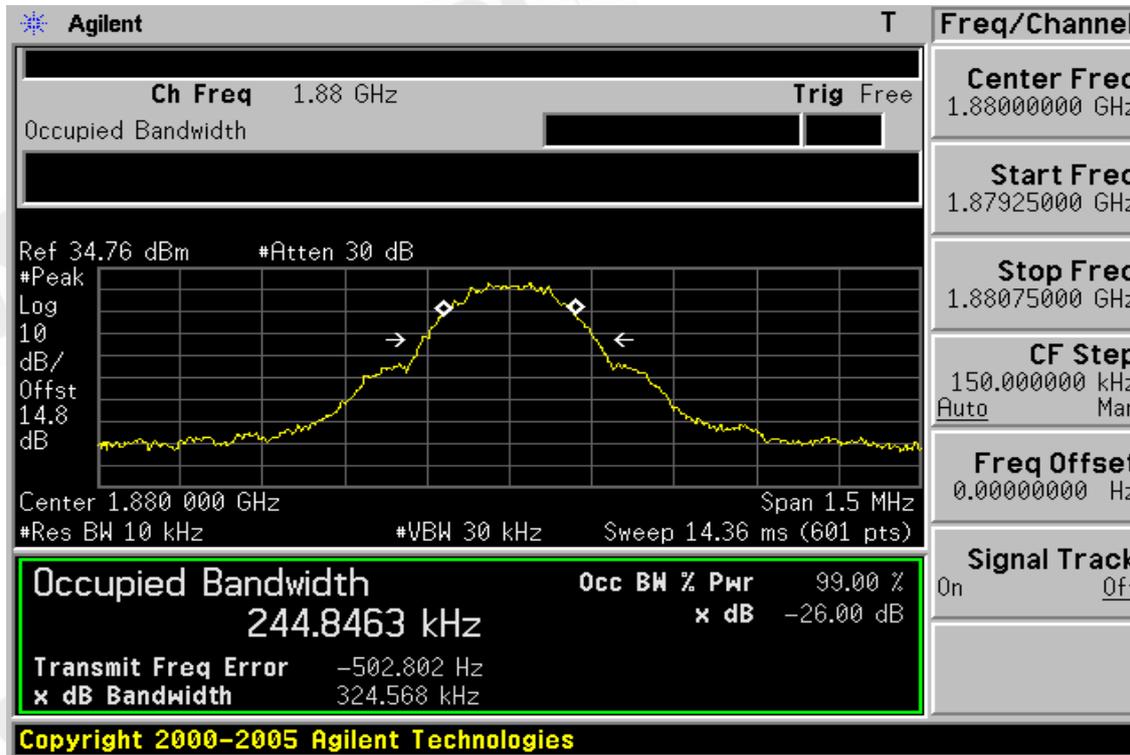
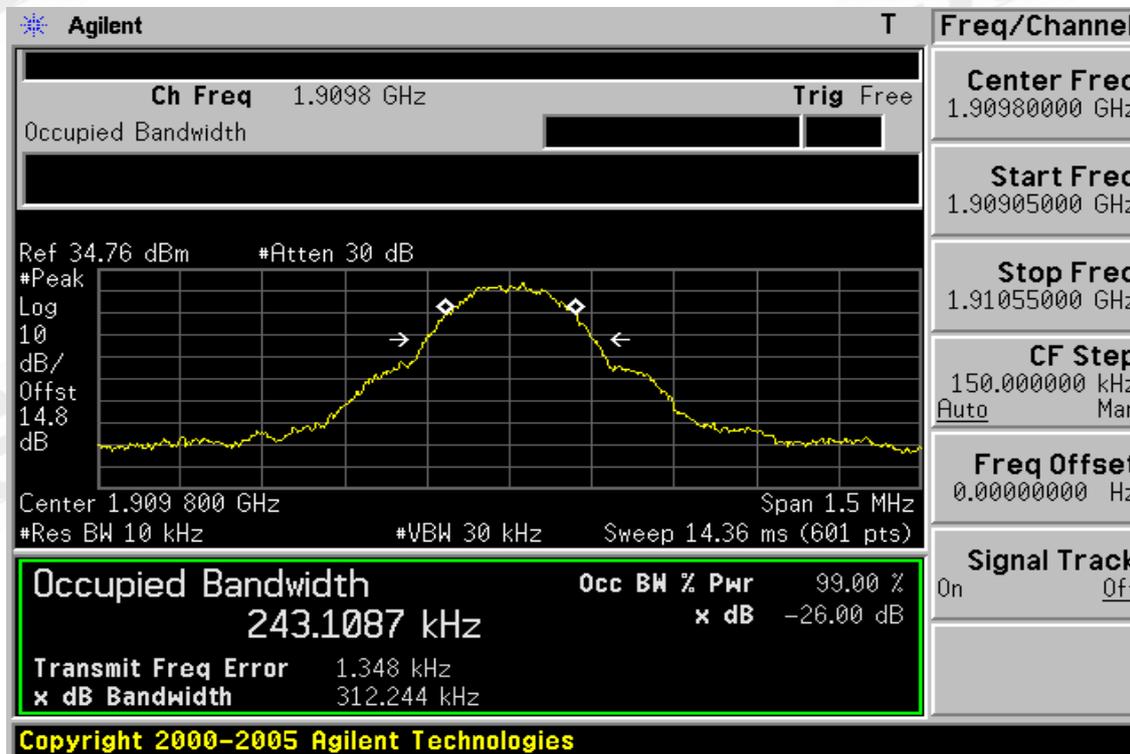


Figure 8-12: GPRS 1900 Channel High



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Figure 8-13: EDGE 850 Channel Low

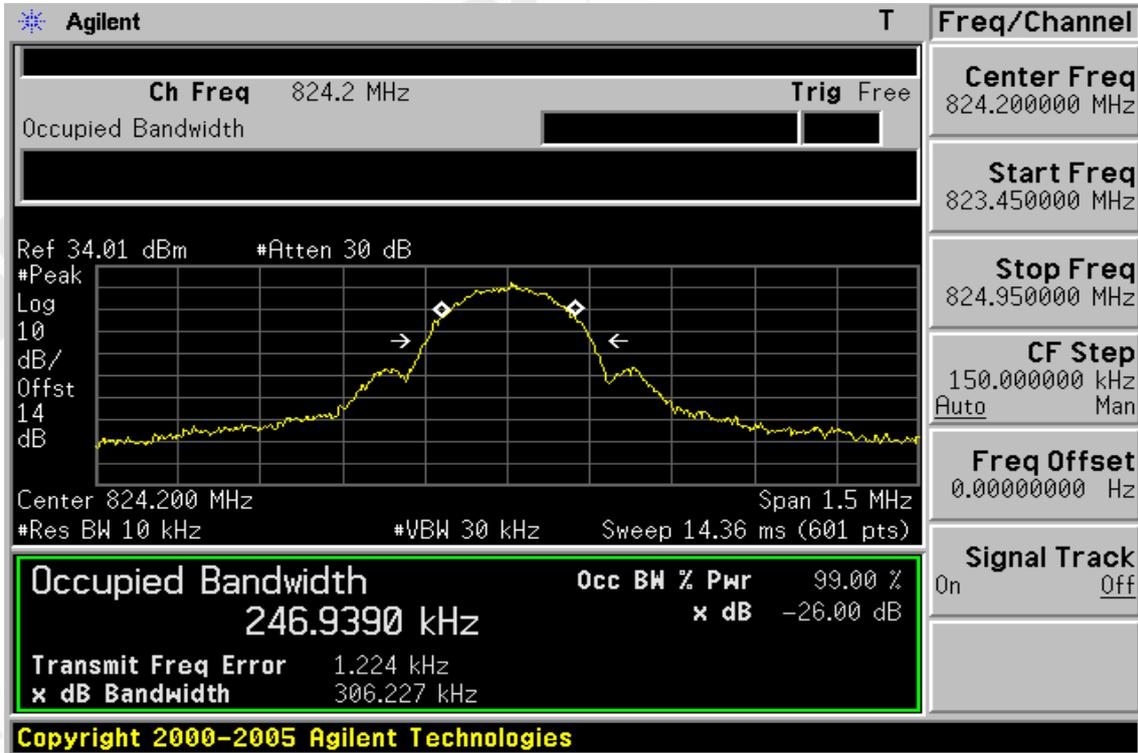
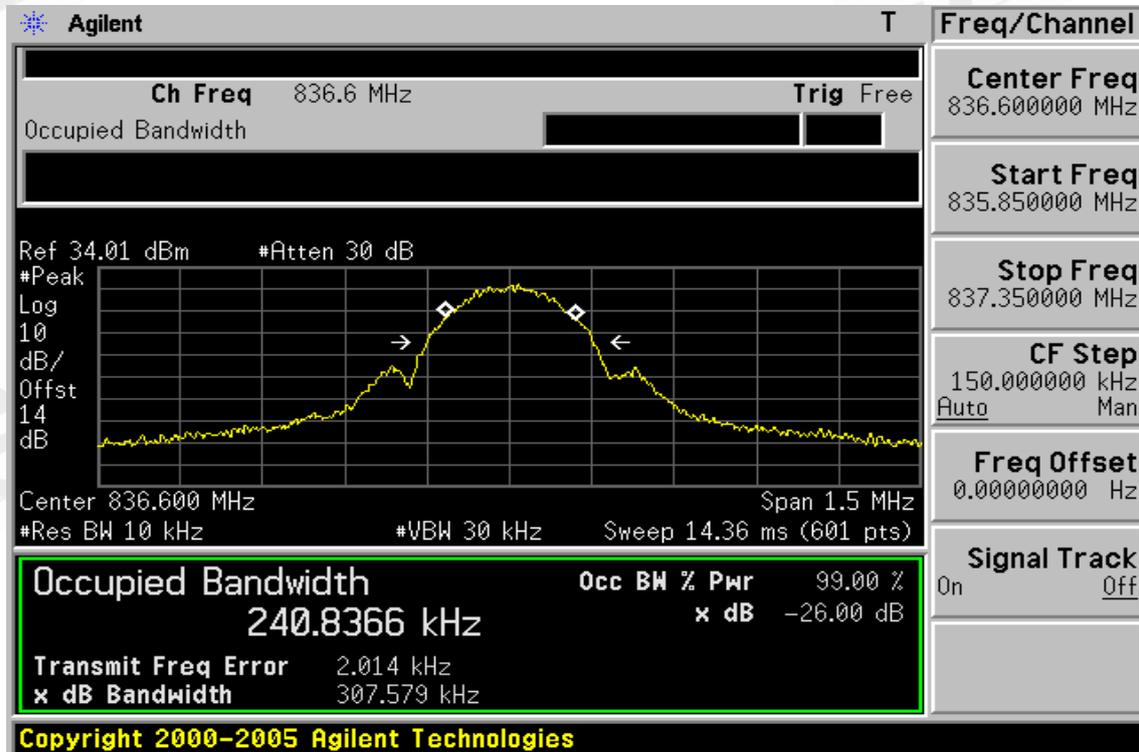


Figure 8-14 EDGE 850 Channel Mid



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Figure 8-15: EDGE 850 Channel High

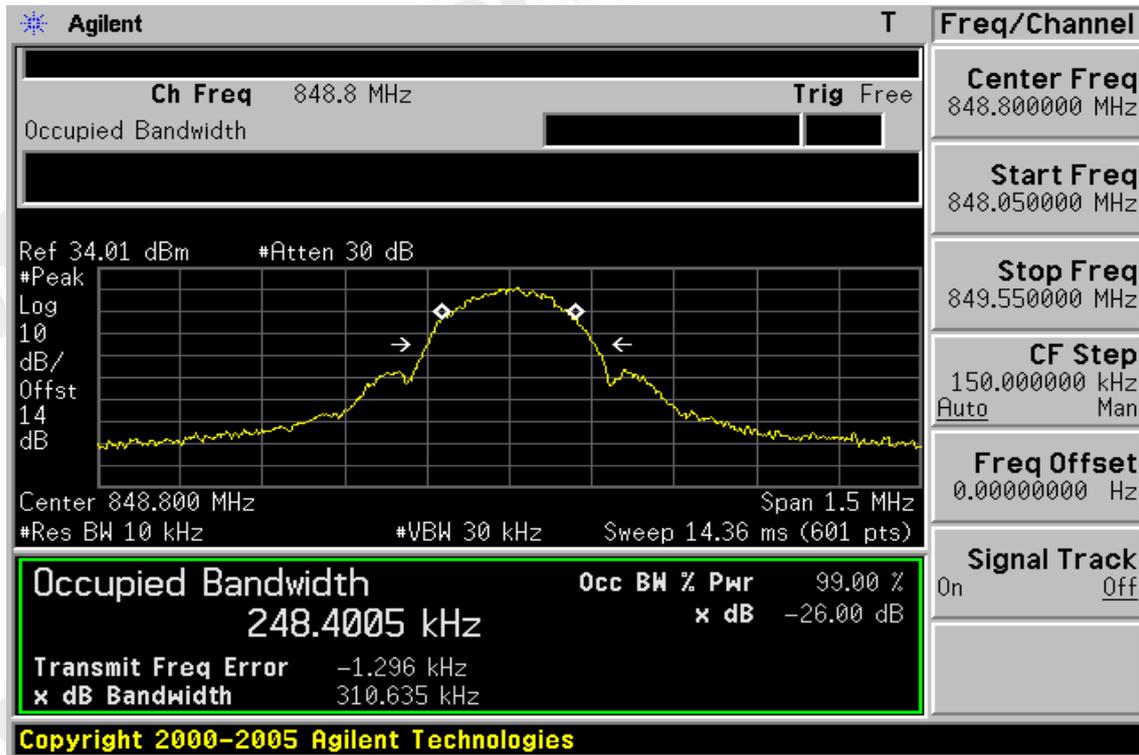
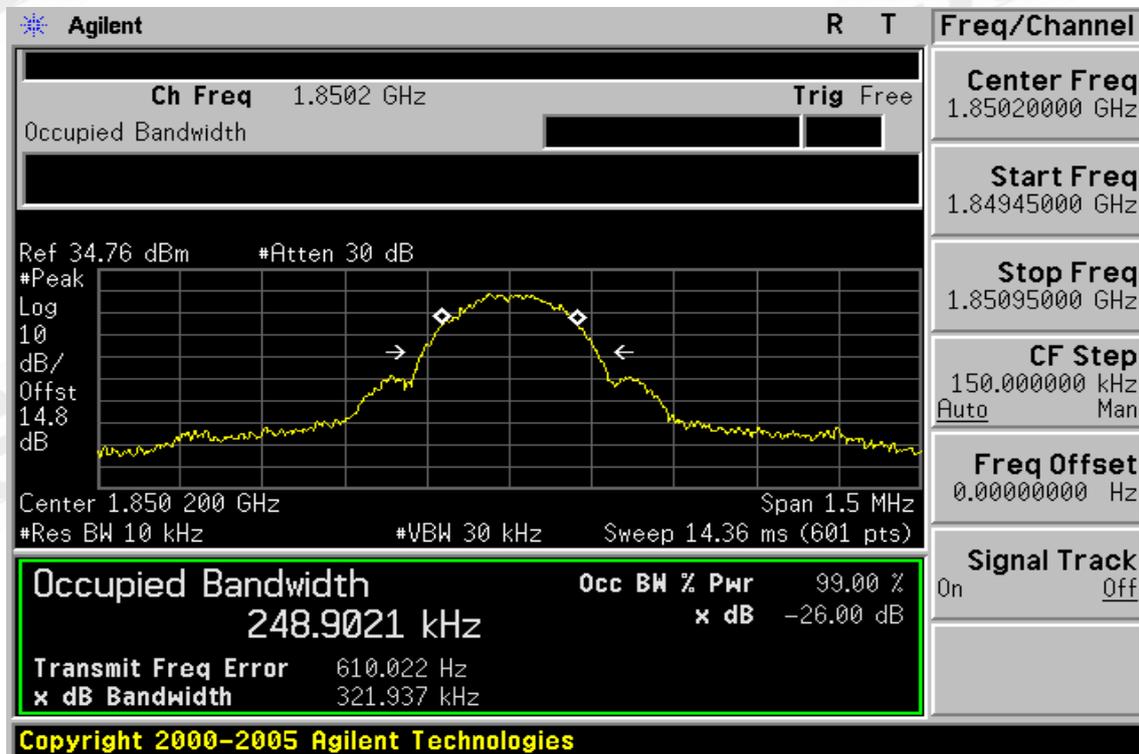


Figure 8-16: EDGE 1900 Channel Low



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Figure 8-17 EDGE 1900 Channel Mid

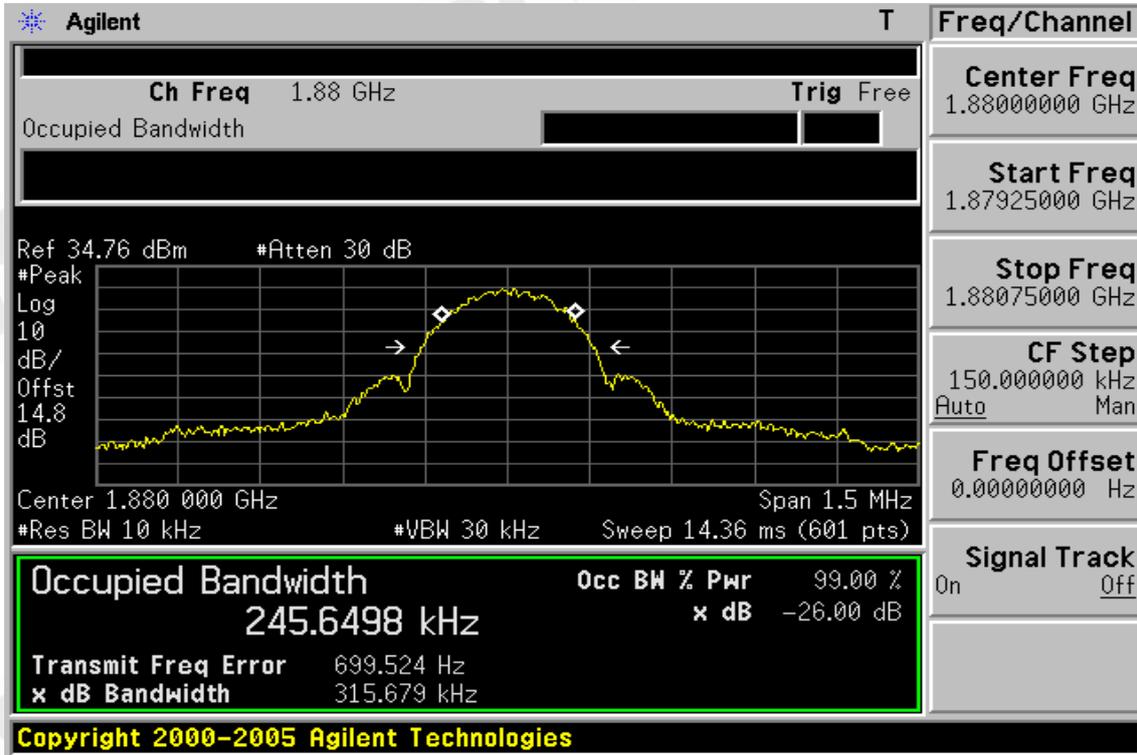
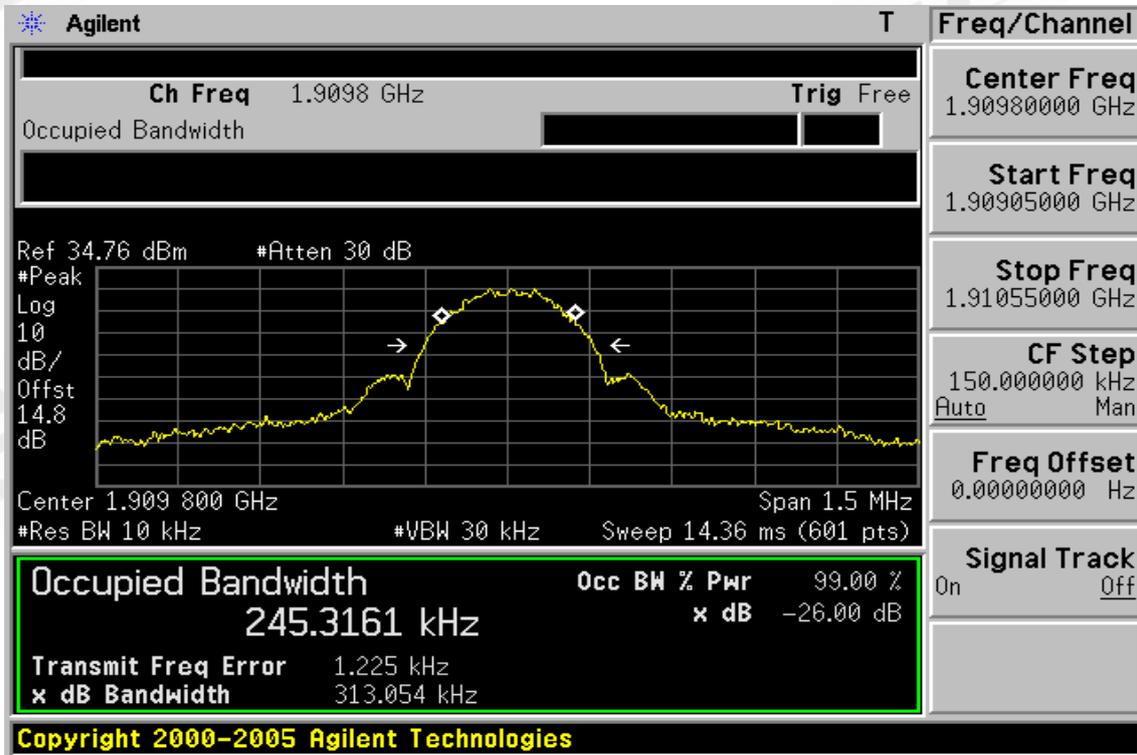


Figure 8-18: EDGE 1900 Channel High



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Figure 8-19: WCDMA Band II Channel Low

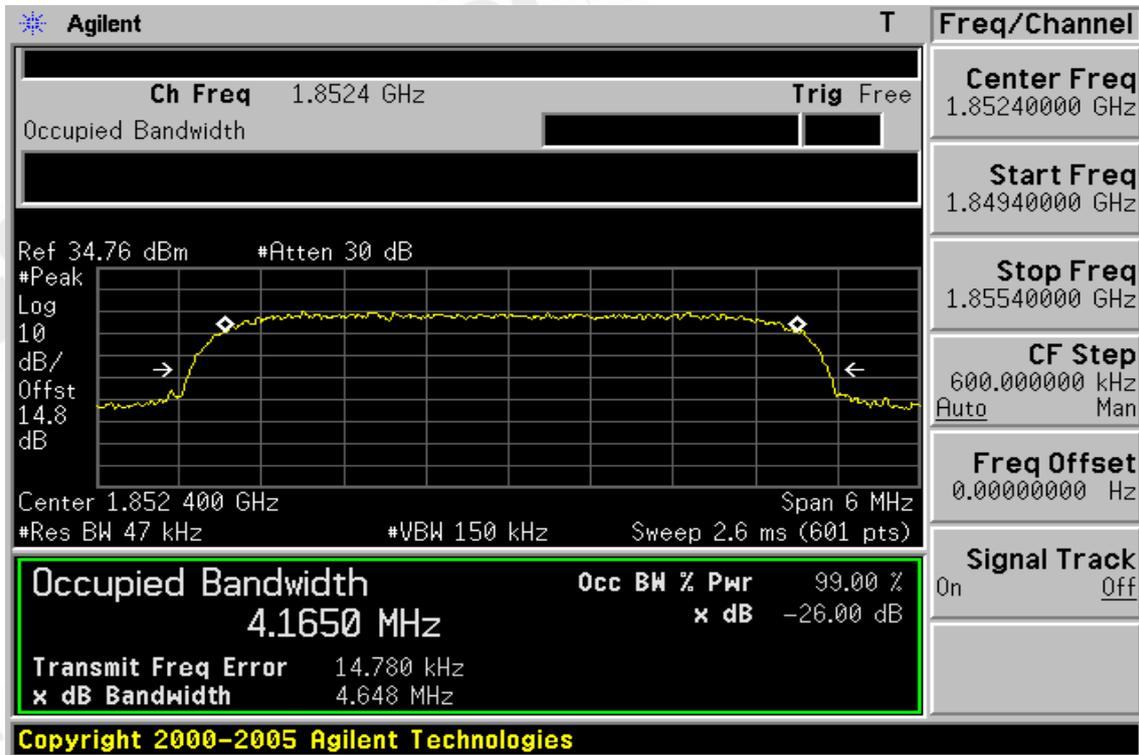
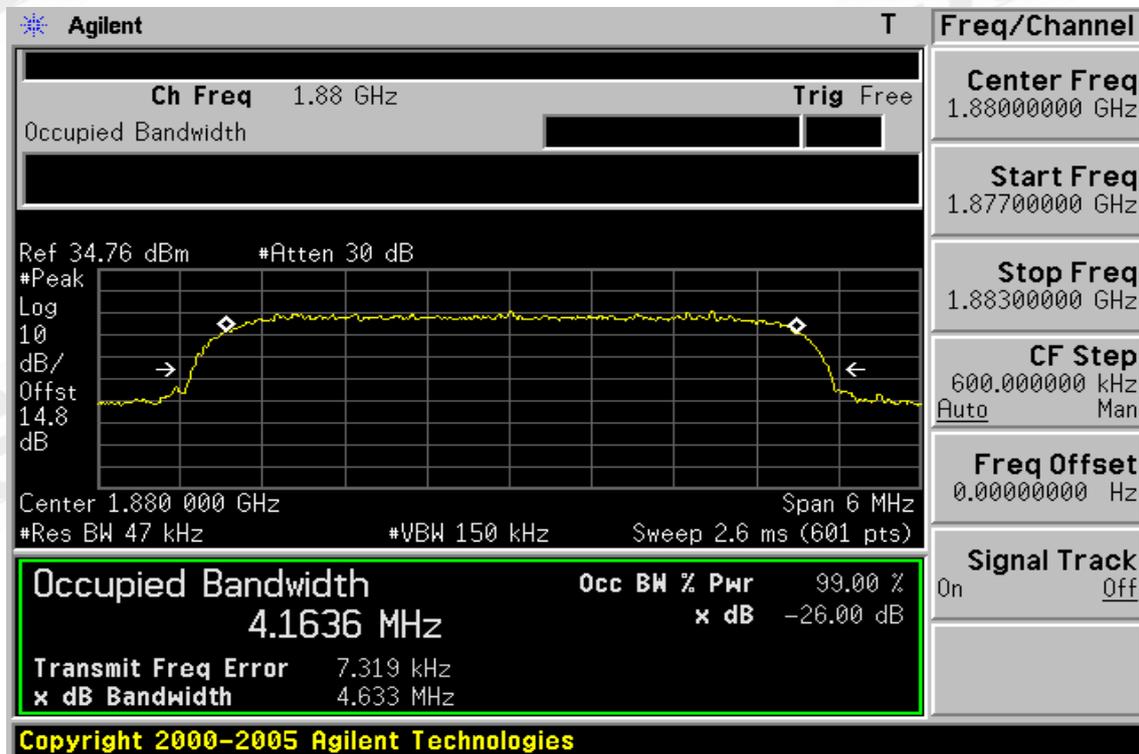


Figure 8-20: WCDMA Band II Channel Mid



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Figure 8-21: WCDMA Band II Channel High

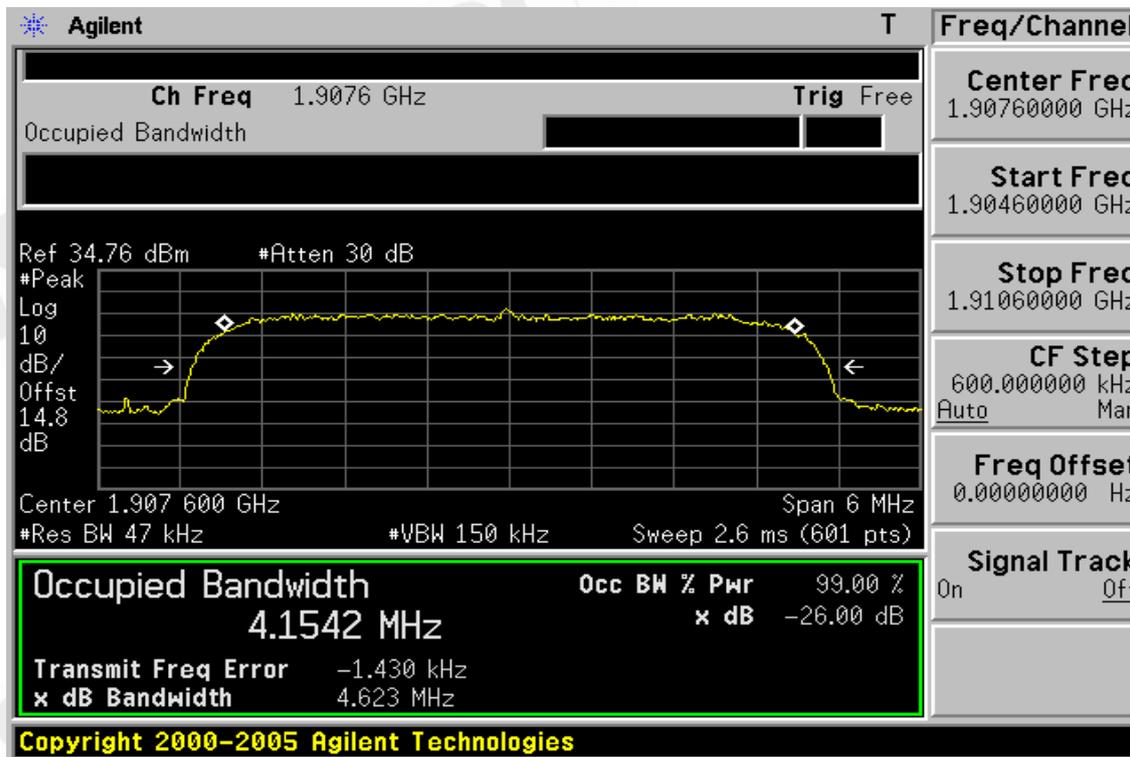
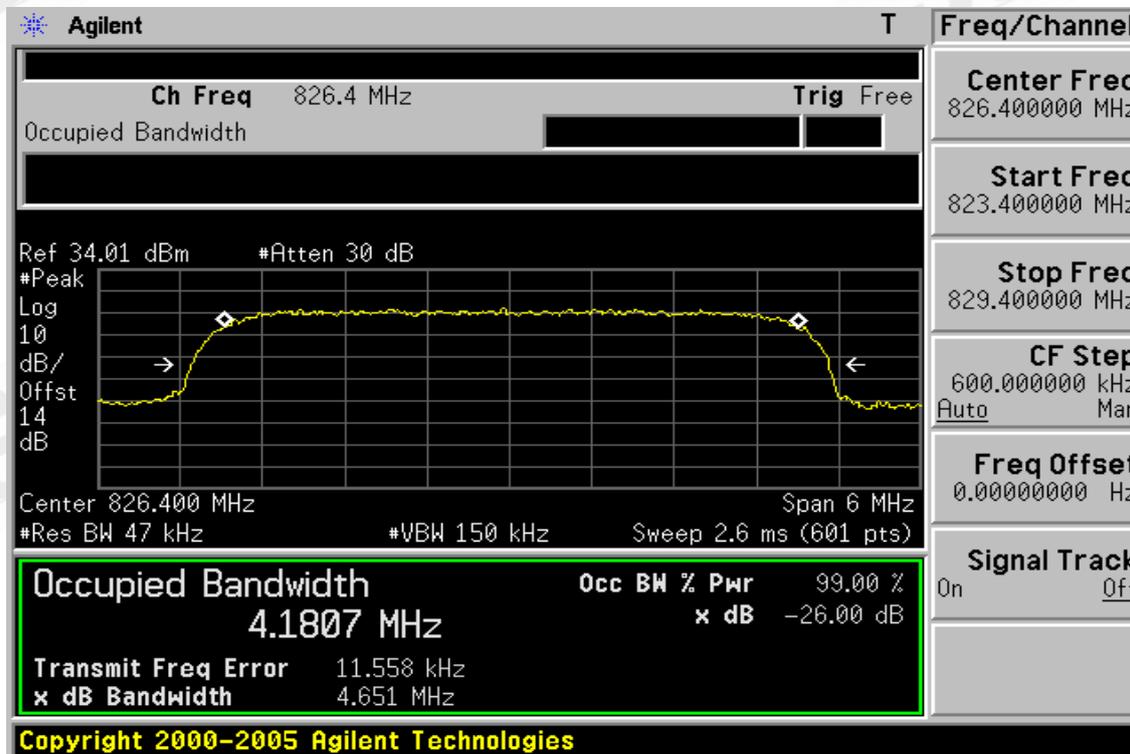


Figure 8-22: WCDMA Band V Channel Low



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Figure 8-23: WCDMA Band V Channel Mid

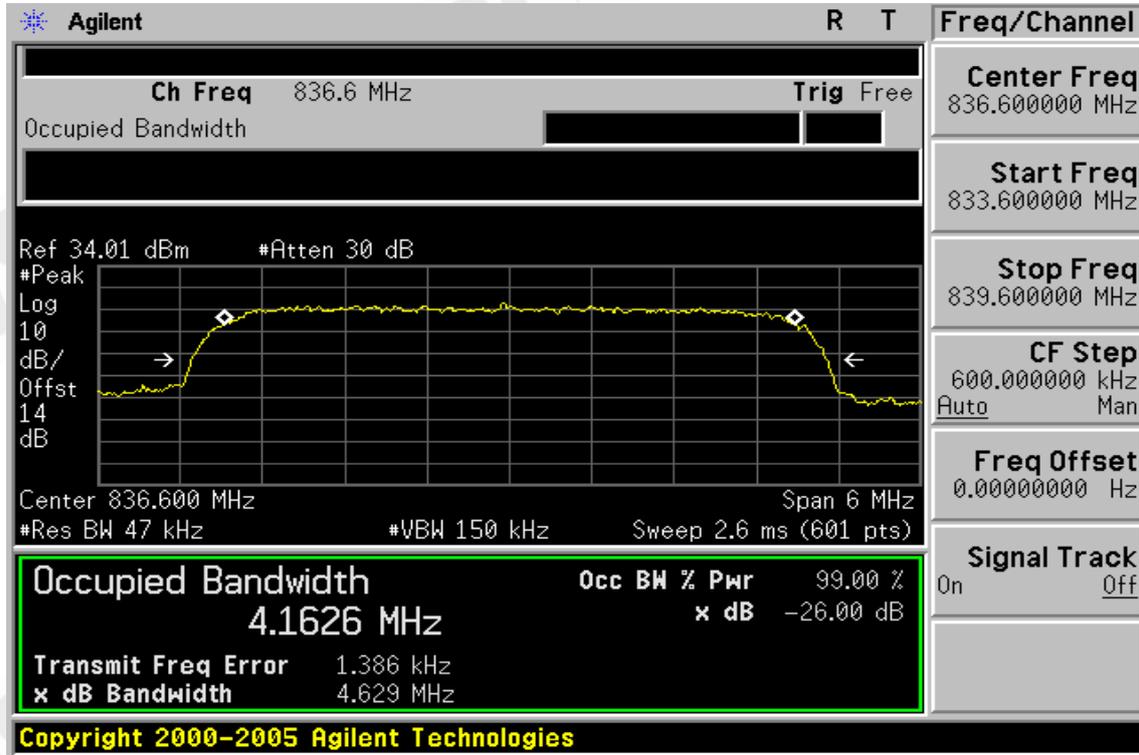
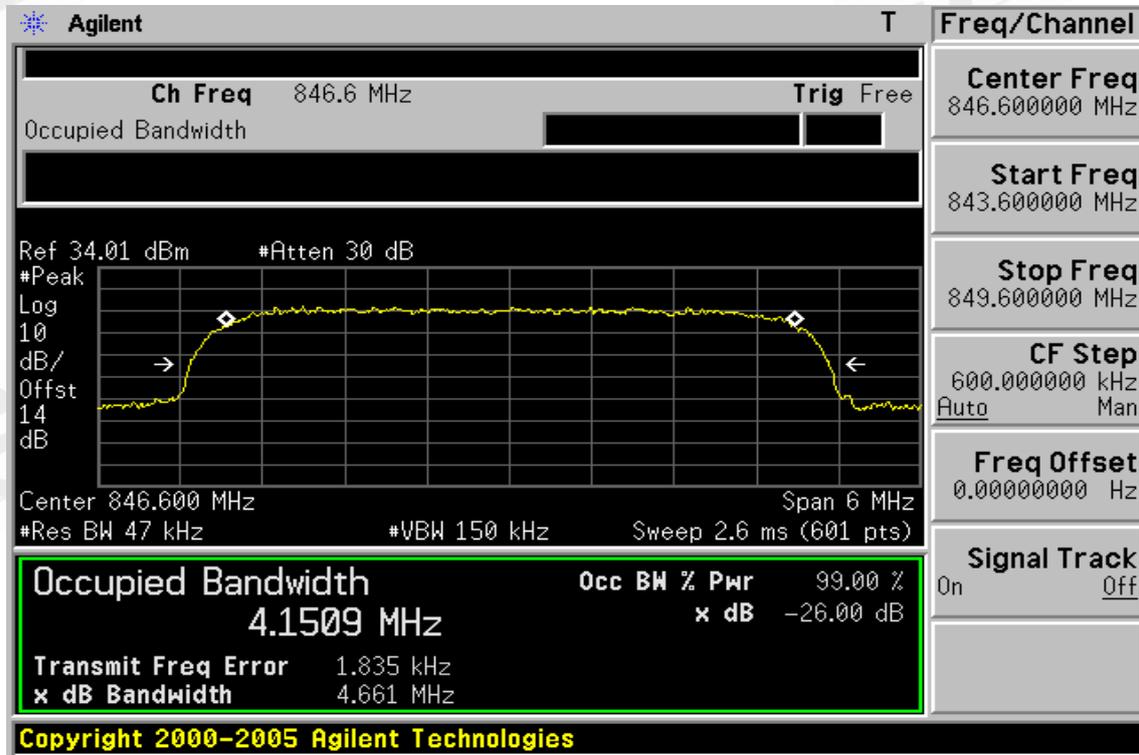


Figure 8-24: WCDMA Band V Channel High



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Figure 8-25: HSDPA Band II Channel Low

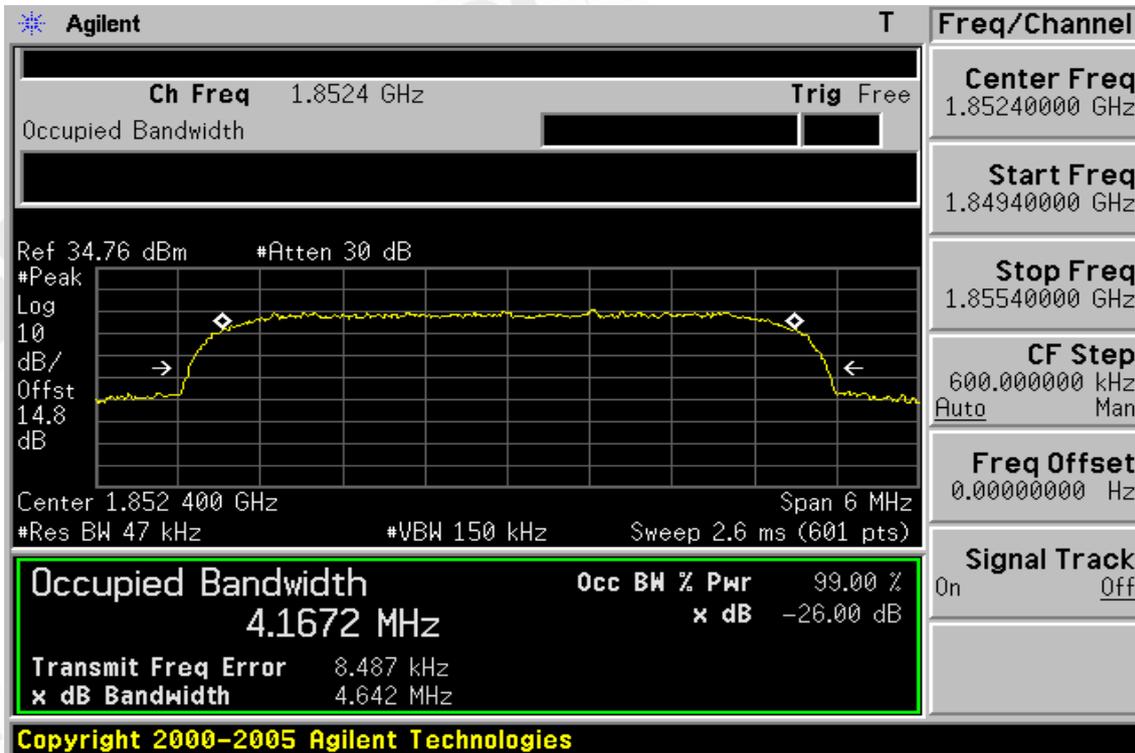
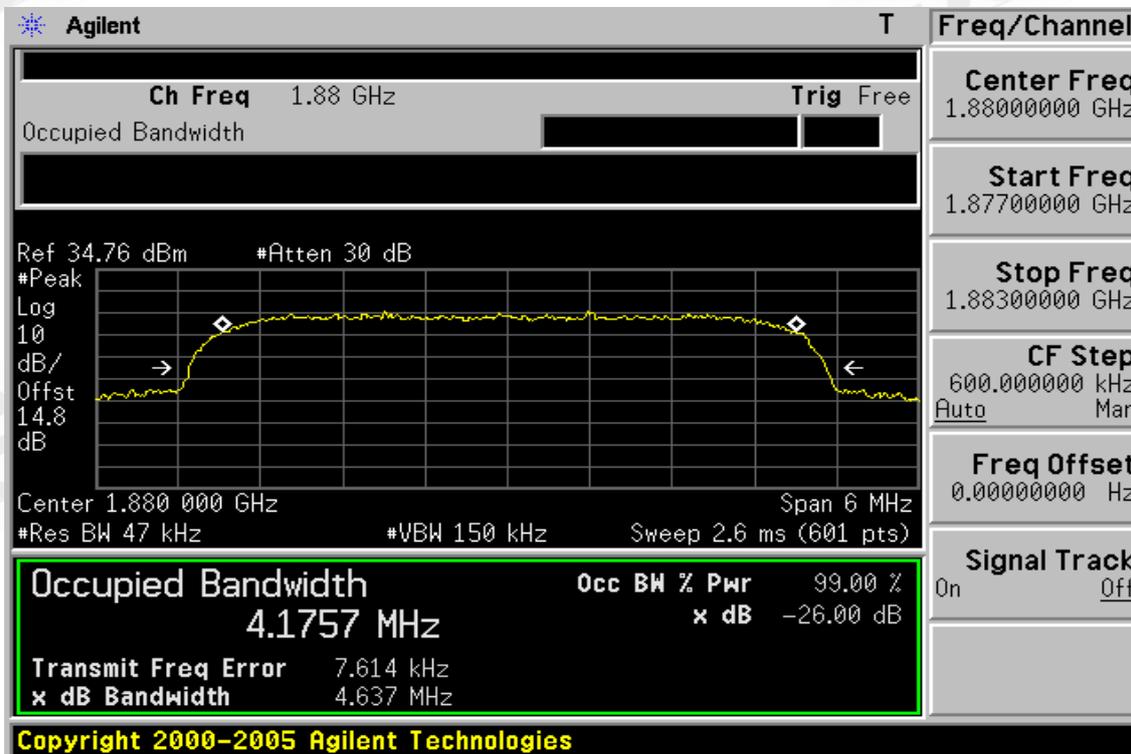


Figure 8-26: HSDPA Band II Channel Mid



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Figure 8-27: HSDPA Band II Channel High

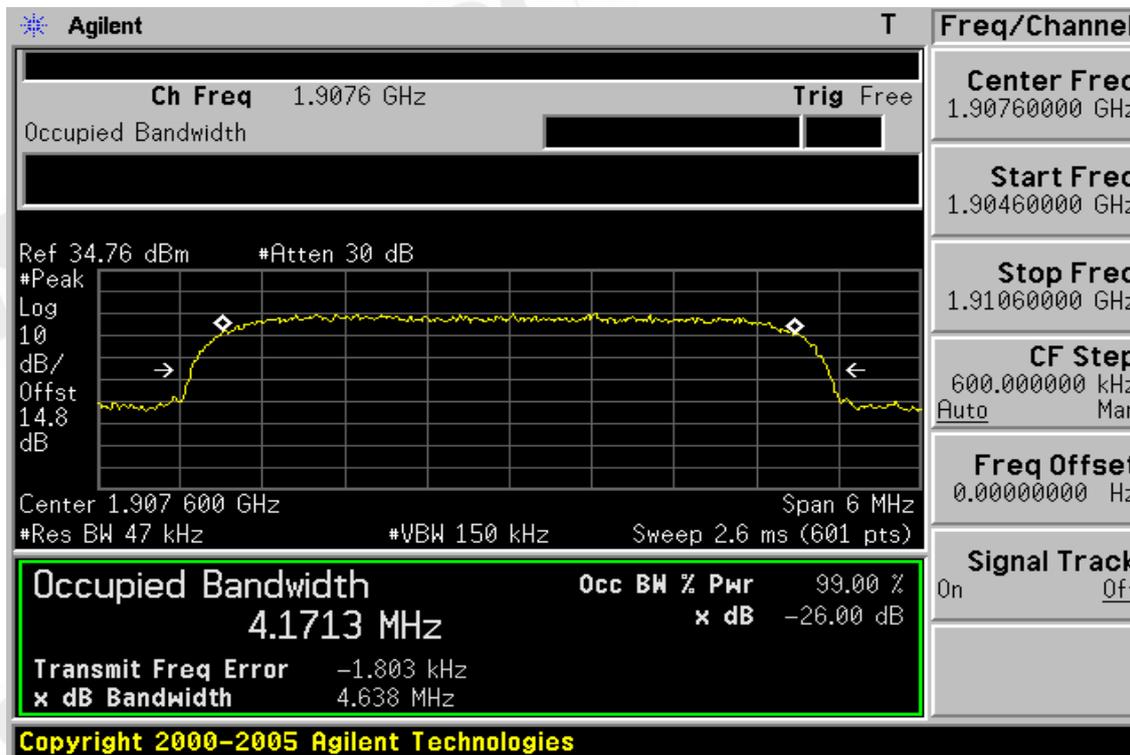
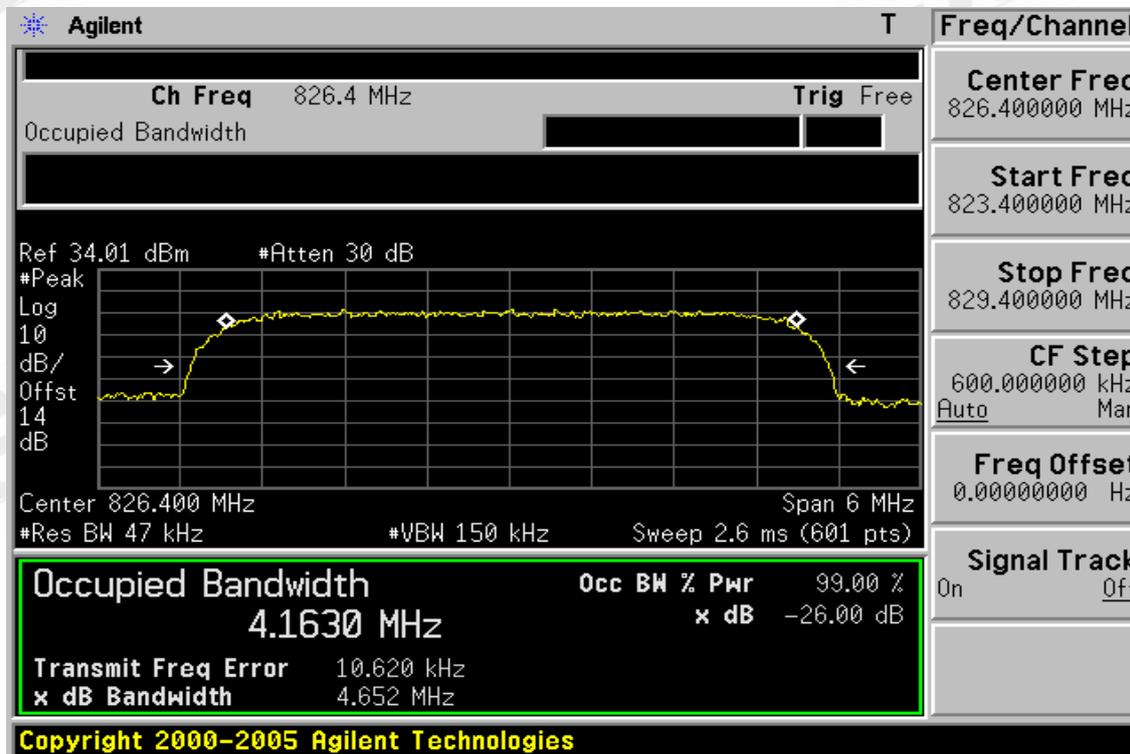


Figure 8-28: HSDPA Band V Channel Low



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Figure 8-29: HSDPA Band V Channel Mid

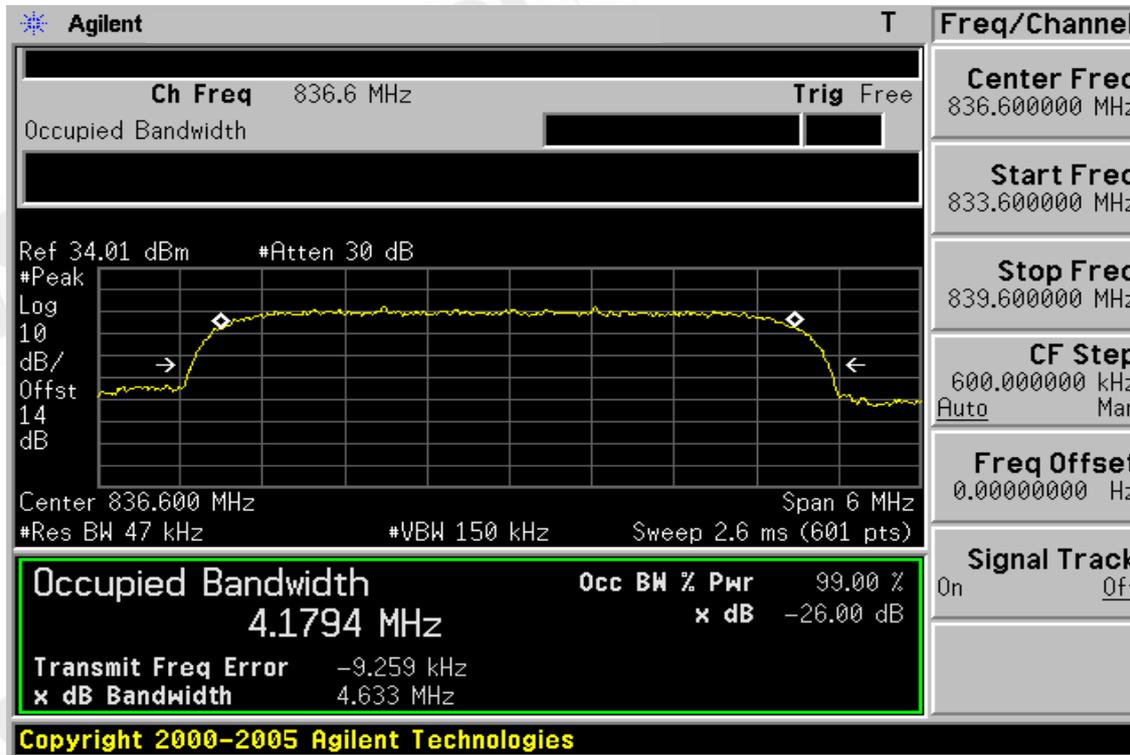
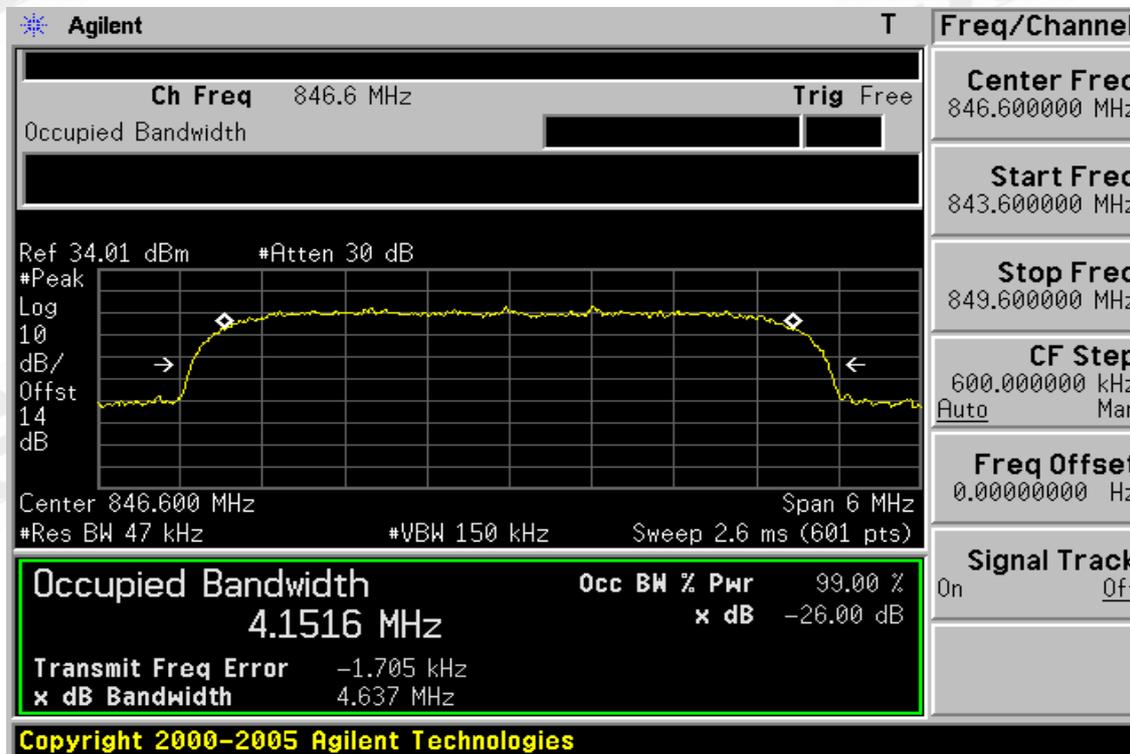


Figure 8-30: HSDPA Band V Channel High



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Figure 8-31: HSUPA Band II Channel Low

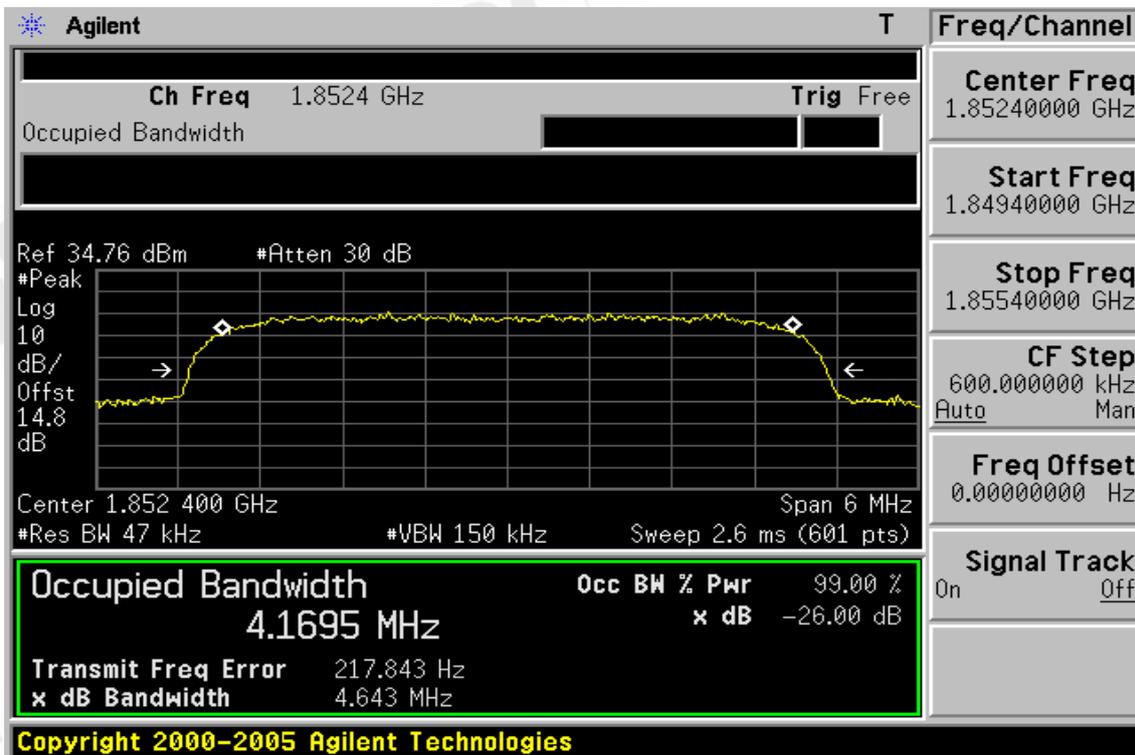
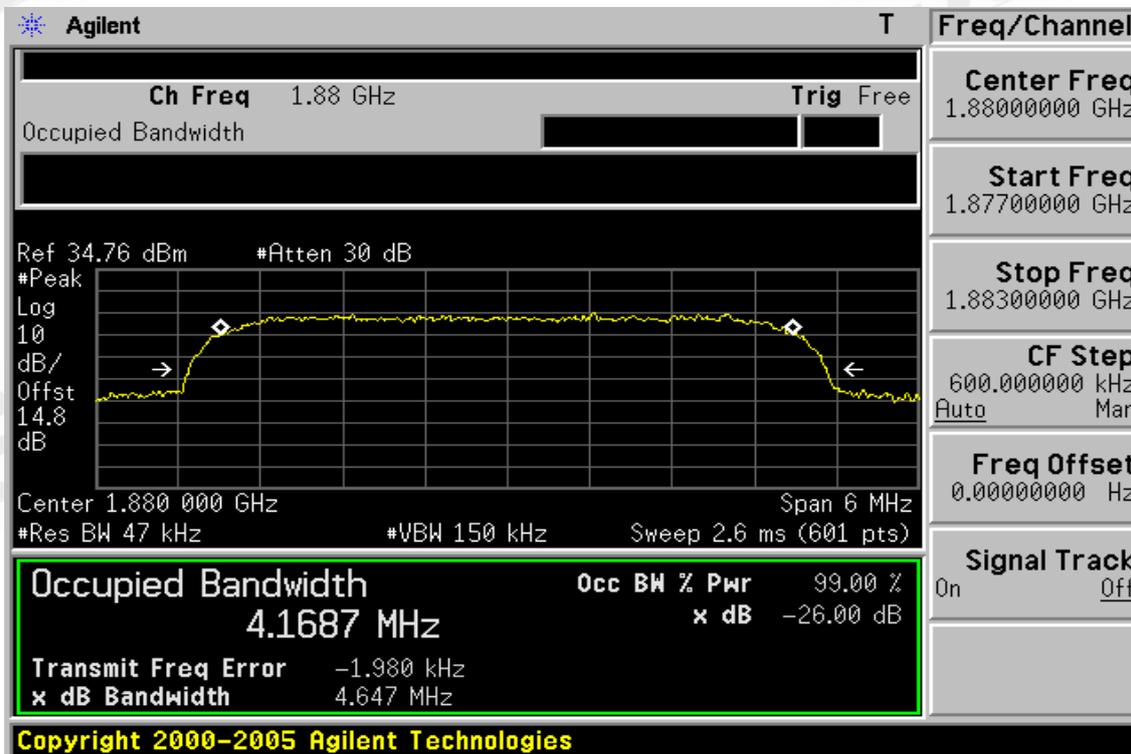


Figure 8-32: HSUPA Band II Channel Mid



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Figure 8-33: HSUPA Band II Channel High

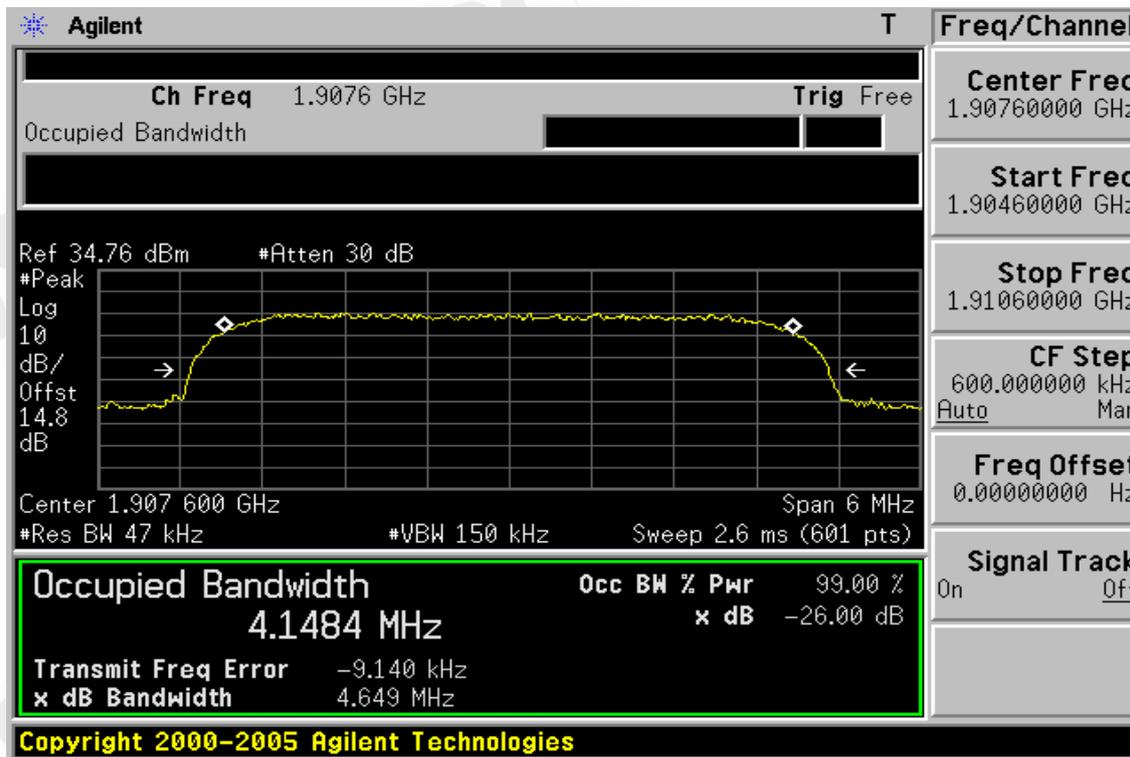
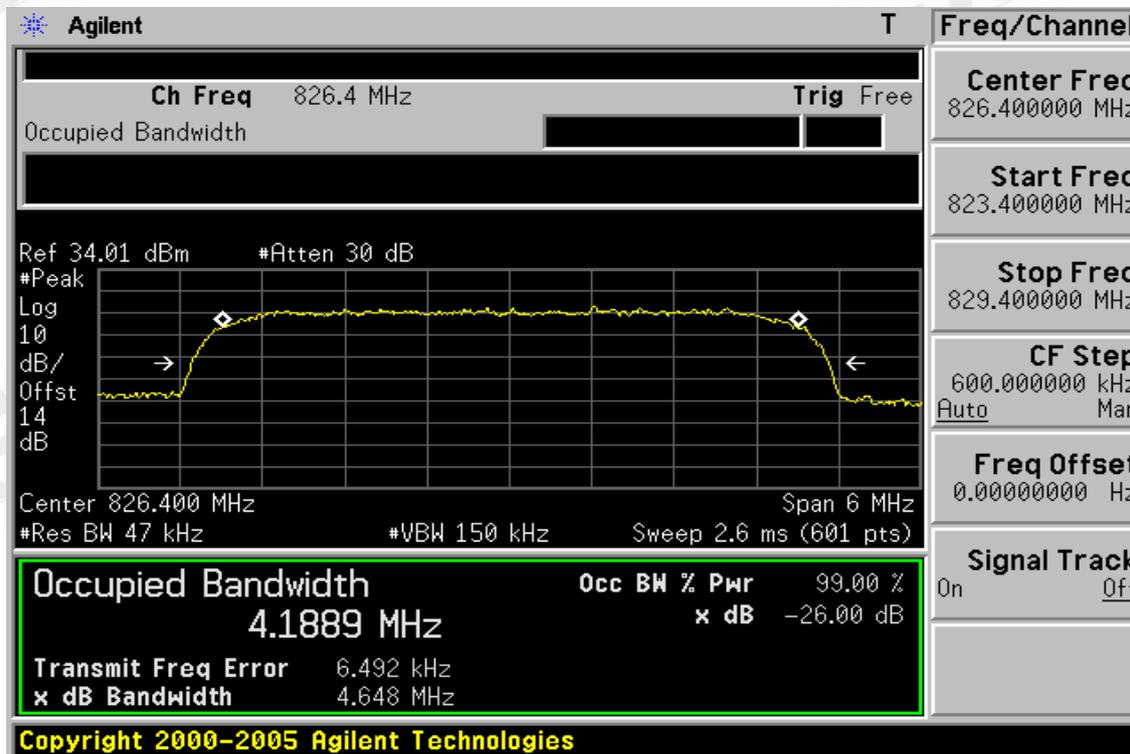


Figure 8-34: HSUPA Band V Channel Low



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Figure 8-35: HSUPA Band V Channel Mid

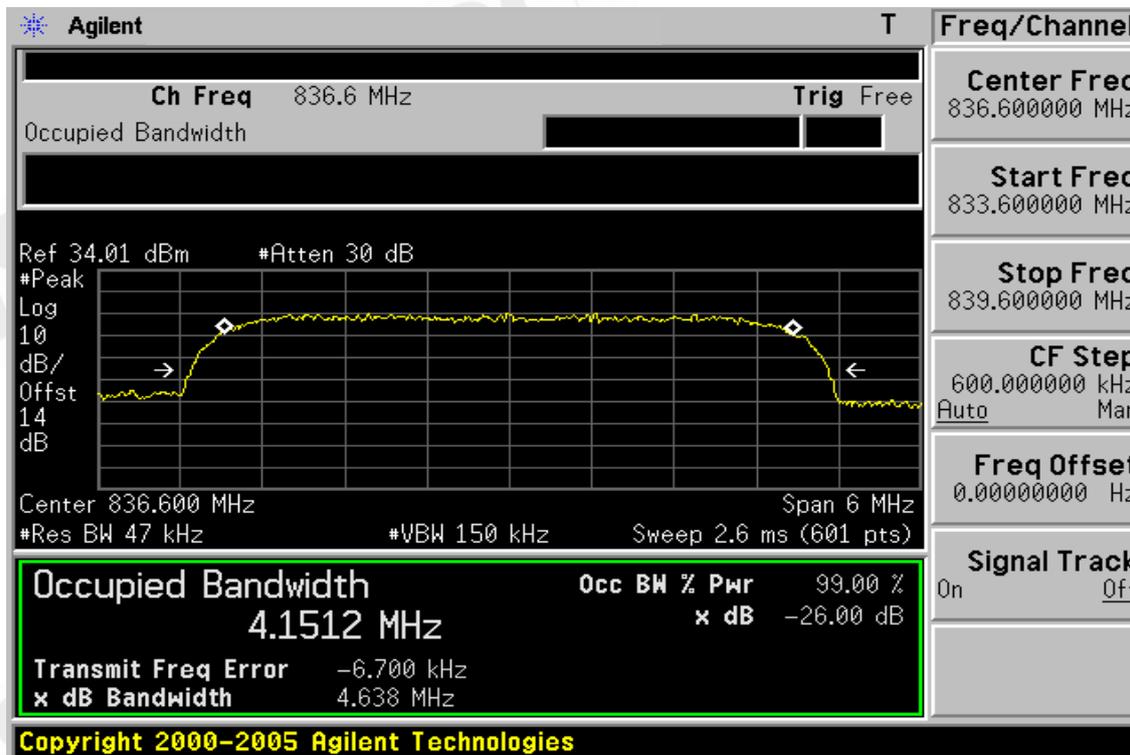
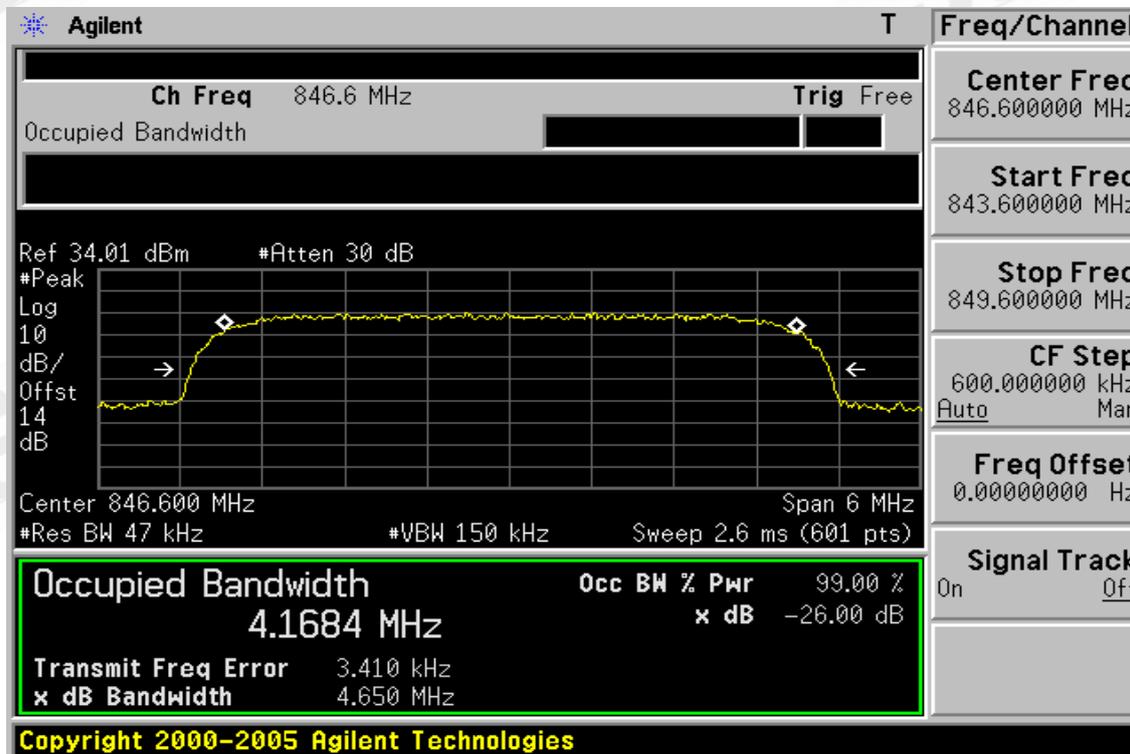


Figure 8-36: HSUPA Band V Channel High



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## 9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

### 9.1. Standard Applicable:

According to FCC §2.1051.

FCC §22.917(a), §24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than  $43 + 10 \log$  (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm)

According to RSS-132 §4.5

#### 4.5.1 Out-of-block Emissions

Mobile and base station equipment with emission bandwidth less than or equal to 4 MHz shall comply with 4.5.1.1. Mobile station equipment with emission bandwidth greater than 4 MHz shall comply with 4.5.1.2. Base station equipment with emission bandwidth greater than 4 MHz shall comply with either 4.5.1.2 or 4.5.1.3.

4.5.1.1 In the first 1.0 MHz band immediately outside and adjacent to the licensee's frequency block, the power of emissions per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in watts) by at least  $43 + 10 \log (P)$ , dB. After the first 1.0 MHz, the power of emissions shall be attenuated below the transmitter output power by at least

$43 + 10 \log (P)$ , dB, in any 100 kHz bandwidth.

4.5.1.2 In the first 1.0 MHz band immediately outside and adjacent to the licensee's frequency block, the power of emissions per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in watts) by at least  $43 + 10 \log (P)$ , dB. After the first 1.0 MHz, the power of emissions shall be attenuated below the transmitter output power by at least

$43 + 10 \log (P)$ , dB, in any 1 MHz bandwidth

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According to RSS-133 §6.5

#### 6.5.1 Out-of-Block Emissions

a. Mobile stations must comply with subsection i. below.

In the first 1.0MHz band immediately outside and adjacent to the licensee's frequency block, the power of emissions per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in watts) by at least  $43 + 10 \log (P)$  dB.

b. After the first 1.0 MHz (for equipment that complies with a.i. of this subsection) or 1.5 MHz (for equipment that complies with all of this subsection), the power of emissions shall be attenuated below the transmitter output power by at least  $43 + 10 \log (P)$ , dB, per any MHz of bandwidth.

(Note: If the test result using 1% of the emission bandwidth is used, then power integration over 1.0 MHz is required; alternatively, the spectrum analyzer resolution and video bandwidths can be increased to 1.0 MHz for this measurement).

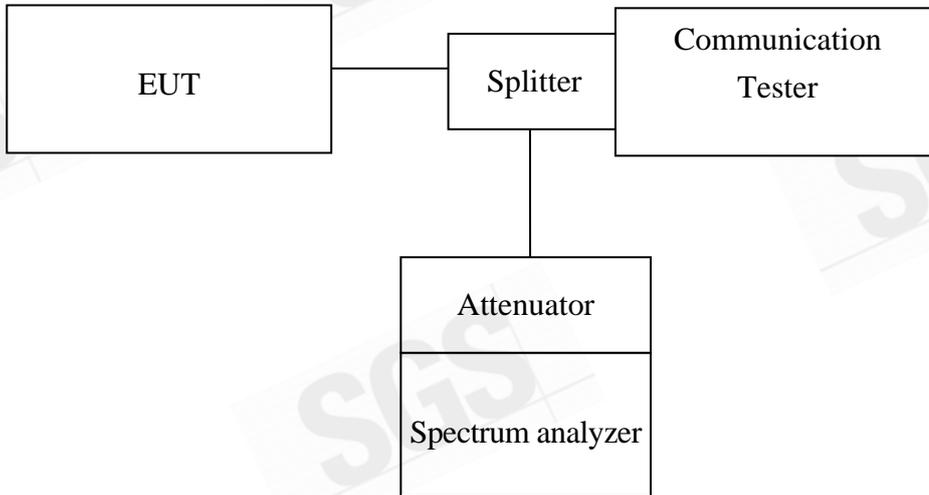
#### 6.5.2 Out-of-Sub-band Emissions

Outside the sub-bands 1850-1910 MHz and 1930-1990 MHz, the attenuation shall be equal to or greater than the out-of-block emission limits in Section 6.5.1.

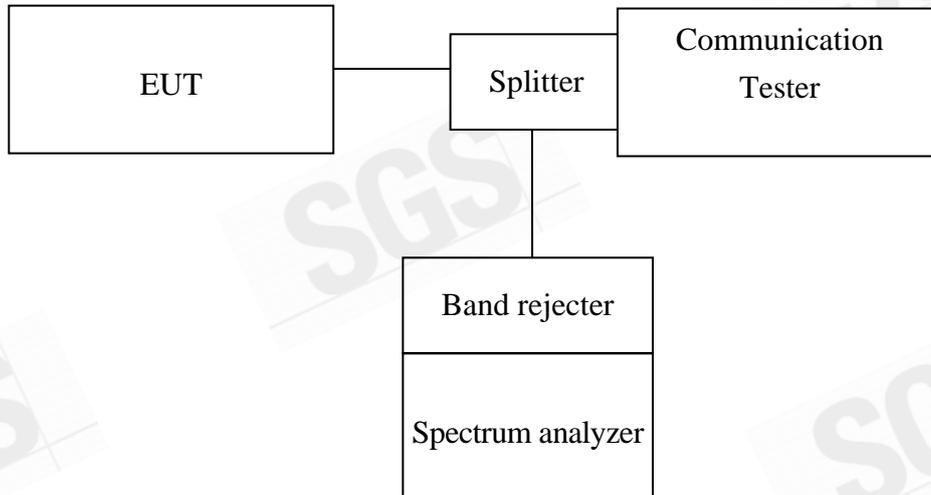
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**9.2. Test SET-UP:  
Out of band emission**



**Band Edge**



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### 9.3. Measurement Procedure:

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10 th harmonic. Limit = -13dBm

Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

#### Conducted Emission:

- 1、 To connect Antenna Port of EUT to Spectrum.
- 2、 Set RBW = 1MHz & VBW = 1MHz on Spectrum.
- 3、 Sweep the frequency to determine spurious emission as seen on spectrum from span of 30 to 1G, 1G to 2.5G, 2.5G to 7.5G, 7.5G to 10G ,10G to 15G and 15G to 20GHz
- 4、 Via Software, combine 6 spans of frequency range into one plot

### 9.4. Measurement Equipment Used:

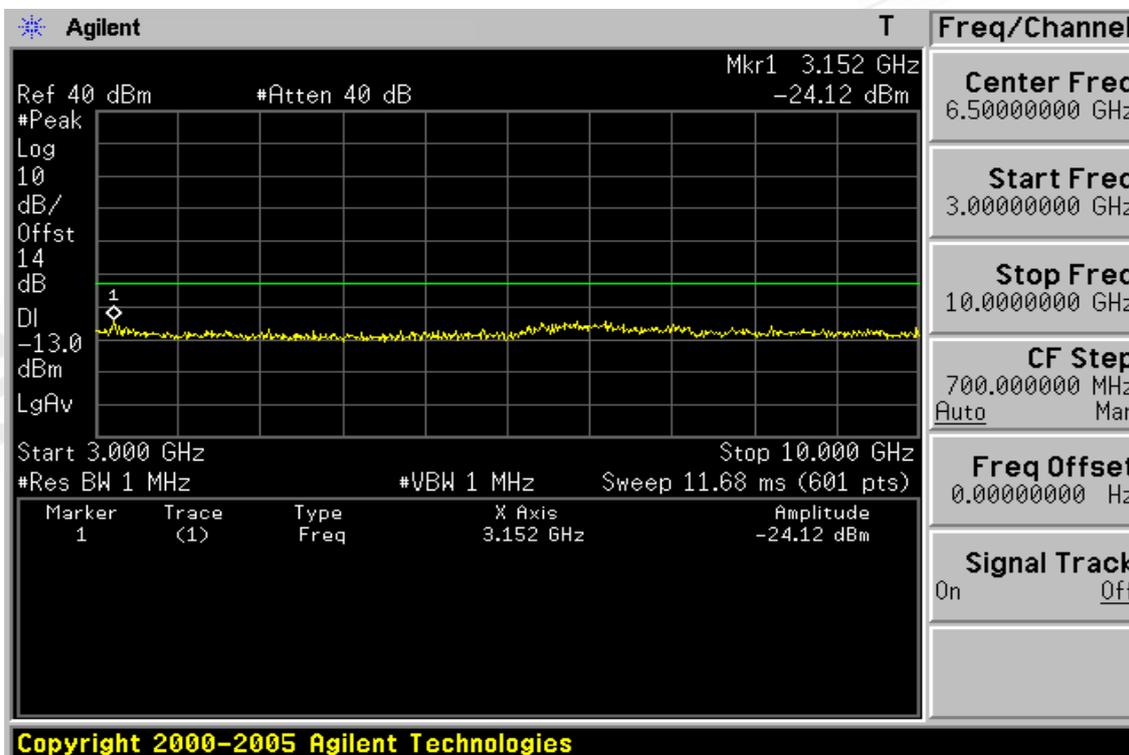
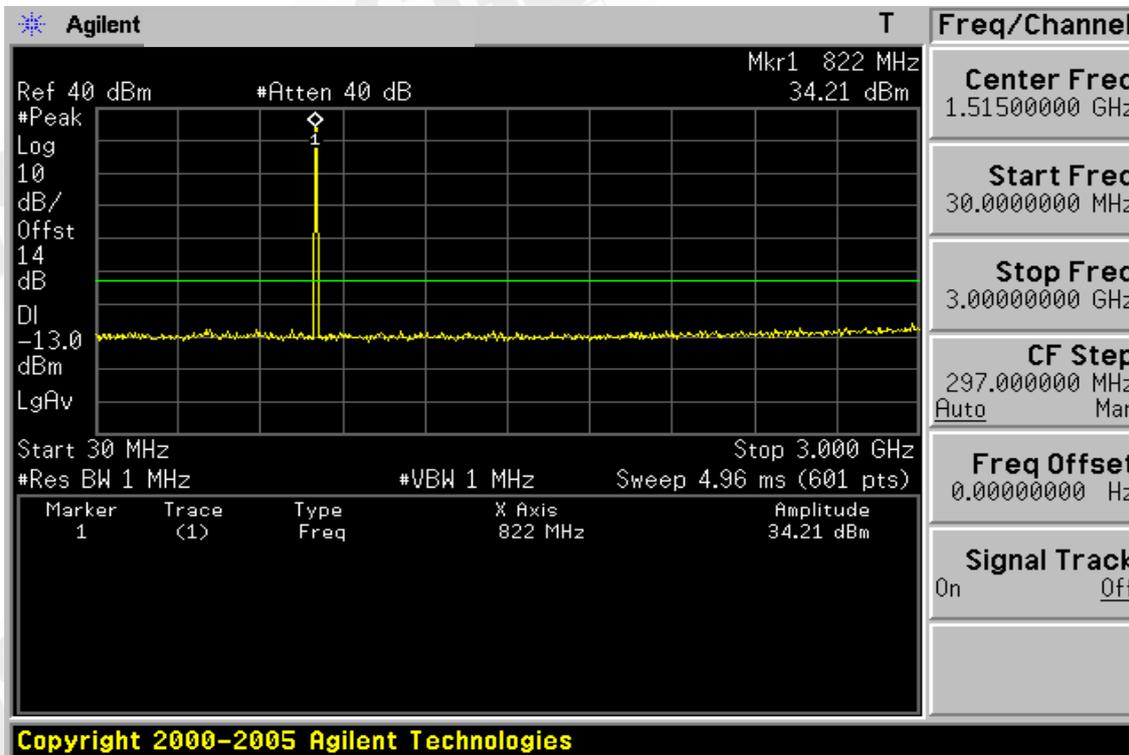
Refer to section 2.4 in this report

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## 9.5. Measurement Result:

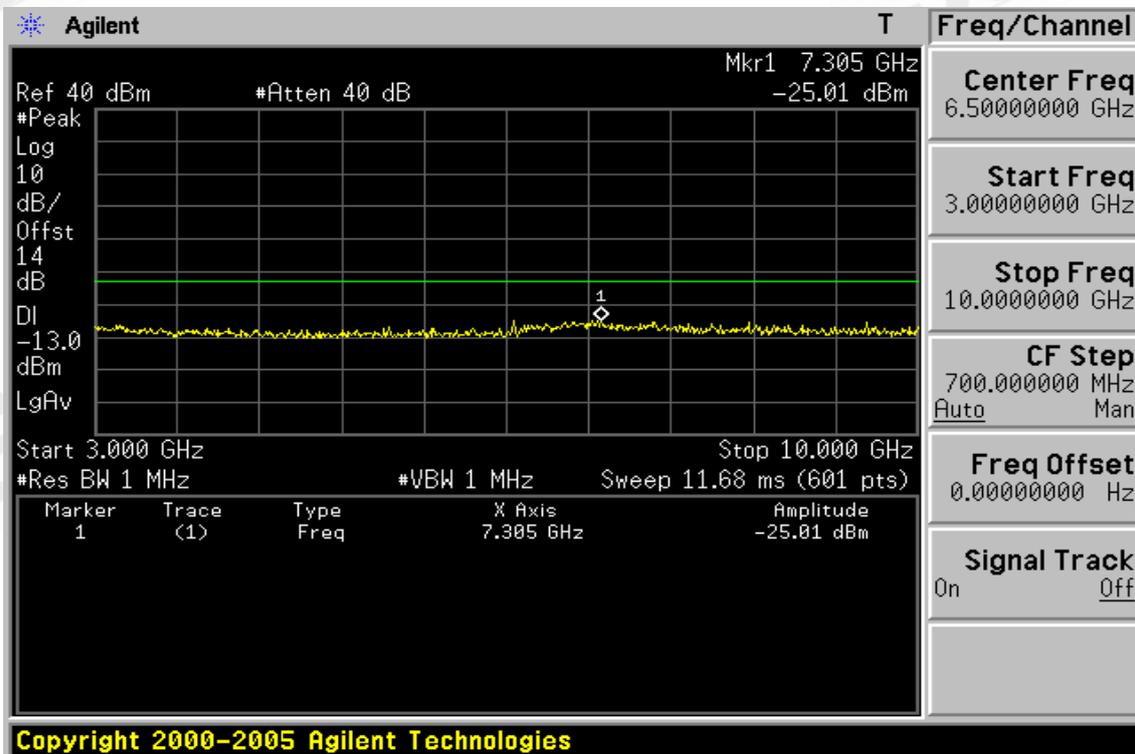
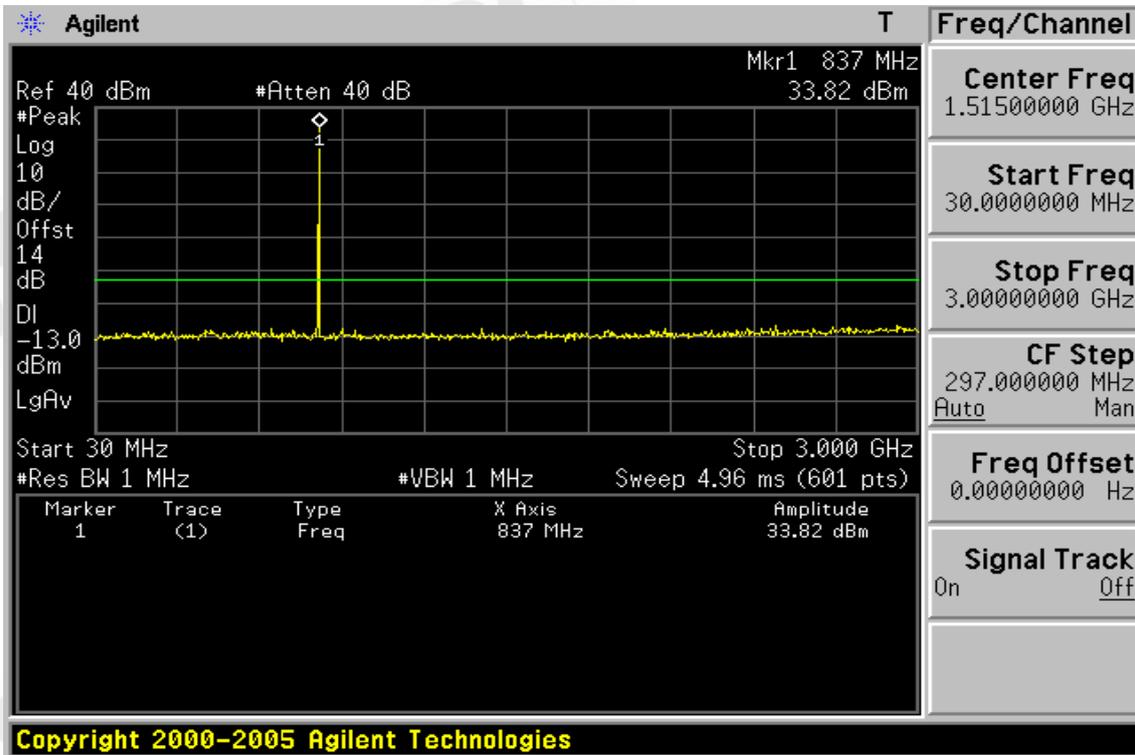
Figure 9-1: Out of Band emission at antenna terminals – GSM 850 Channel Lowest



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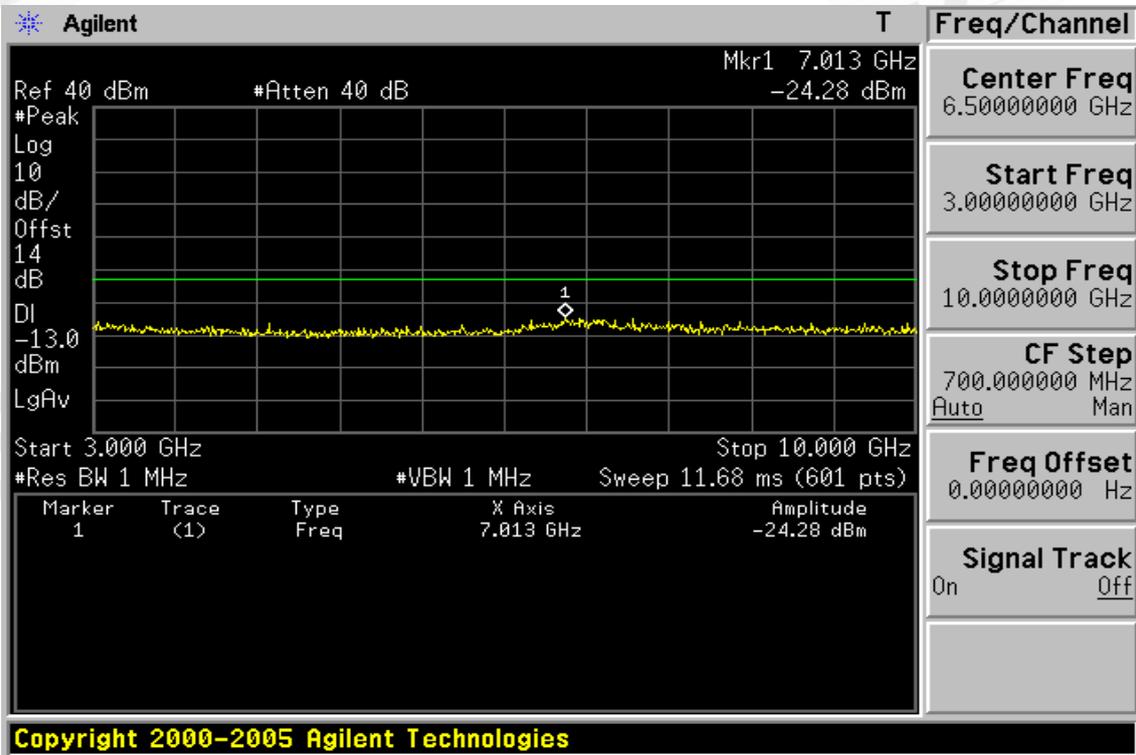
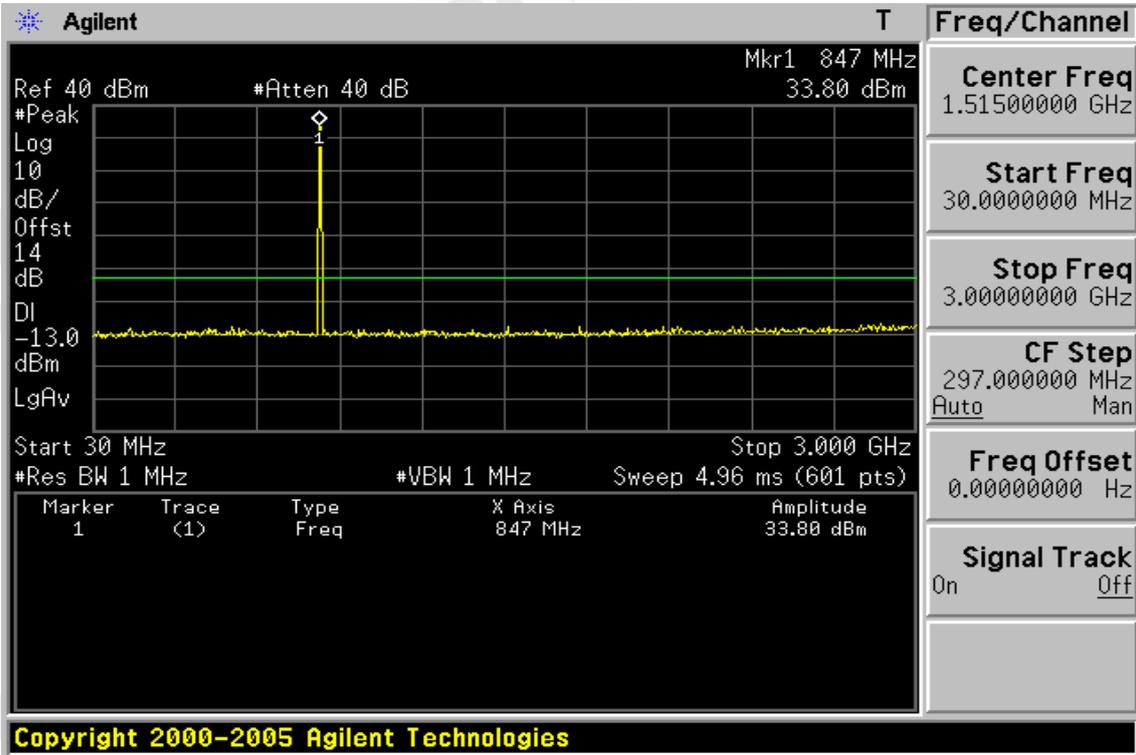
**Figure 9-2: Out of Band emission at antenna terminals – GSM 850 Channel Mid**



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**Figure 9-3: Out of Band emission at antenna terminals – GSM 850 Channel Highest**



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**Out of Band emission at antenna terminals – GSM 850**

Fundamental Frequency :824.2 MHz Engineer :Jay  
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1648.40	H	---	-13.00	---
2472.60	H	---	-13.00	---
3152.00	S	-24.12	-13.00	11.12
3296.80	H	---	-13.00	---
4121.00	H	---	-13.00	---
4945.20	H	---	-13.00	---
5769.40	H	---	-13.00	---
6593.60	H	---	-13.00	---
7417.80	H	---	-13.00	---
8242.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
“---“ : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz Engineer :Jay  
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.20	S	---	-13.00	---
2509.80	H	---	-13.00	---
3346.40	H	---	-13.00	---
4183.00	H	---	-13.00	---
5019.60	H	---	-13.00	---
5856.20	H	---	-13.00	---
6692.80	H	---	-13.00	---
7305.00	S	-25.01	-13.00	12.01
7529.40	H	---	-13.00	---
8366.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Fundamental Frequency :848.8MHz Engineer :Jay  
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1697.60	S	---	-13.00	---
2546.40	H	---	-13.00	---
3395.20	H	---	-13.00	---
4244.00	H	---	-13.00	---
5092.80	H	---	-13.00	---
5941.60	H	---	-13.00	---
6790.40	H	---	-13.00	---
7013.00	S	-24.28	-13.00	11.28
7639.20	H	---	-13.00	---
8488.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

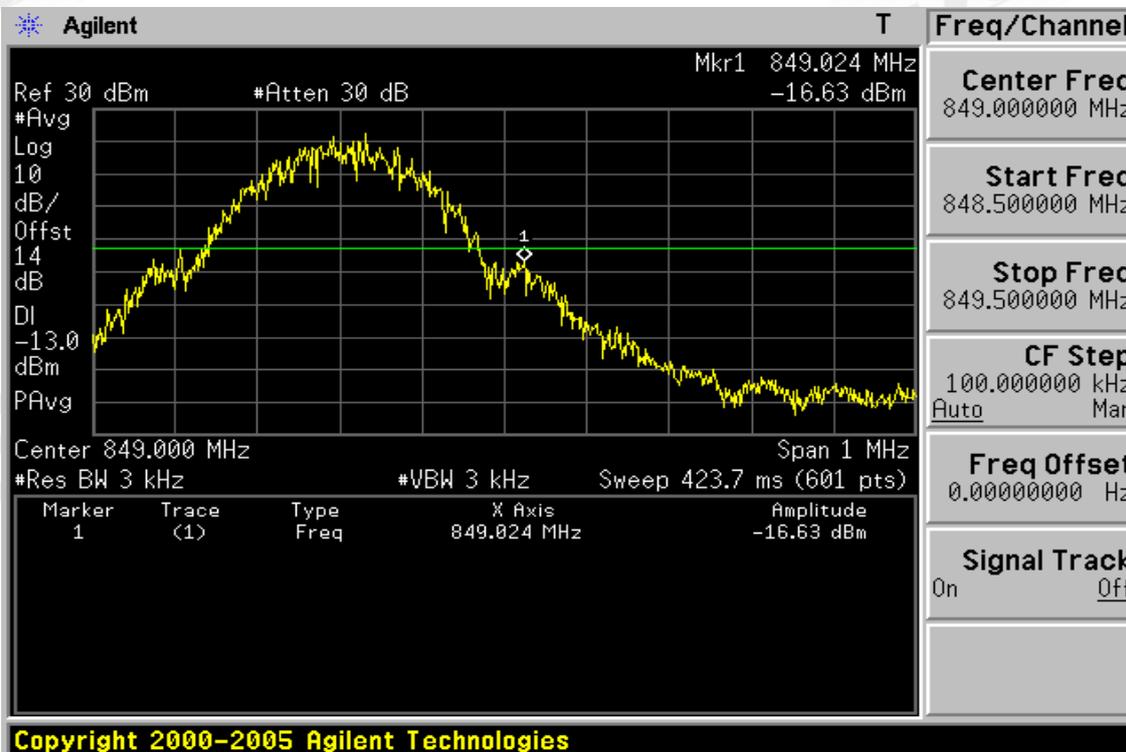
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**Figure 9-4: Band edge emission at antenna terminals – GSM 850 Channel Lowest**



**Figure 9-5: Band edge emission at antenna terminals – GSM 850 Channel Highest**



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**Band edge emission at antenna terminals – GSM 850 Low & High**

Test Mode GSM 850 Engineer :Jay

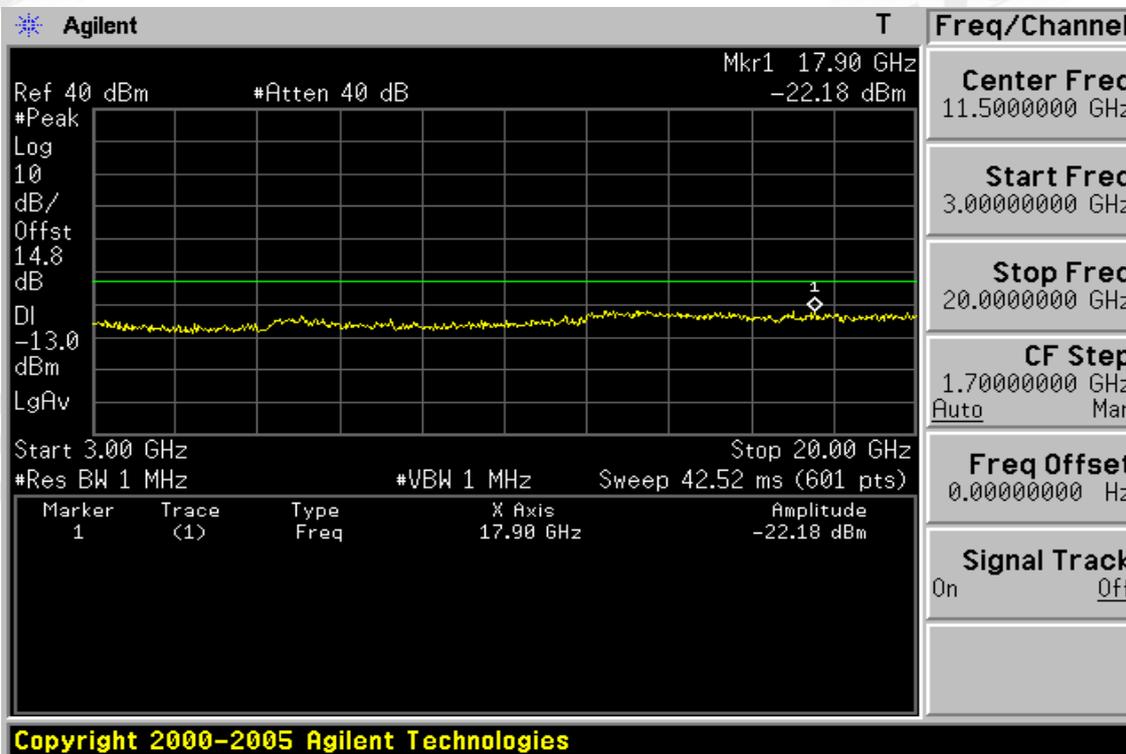
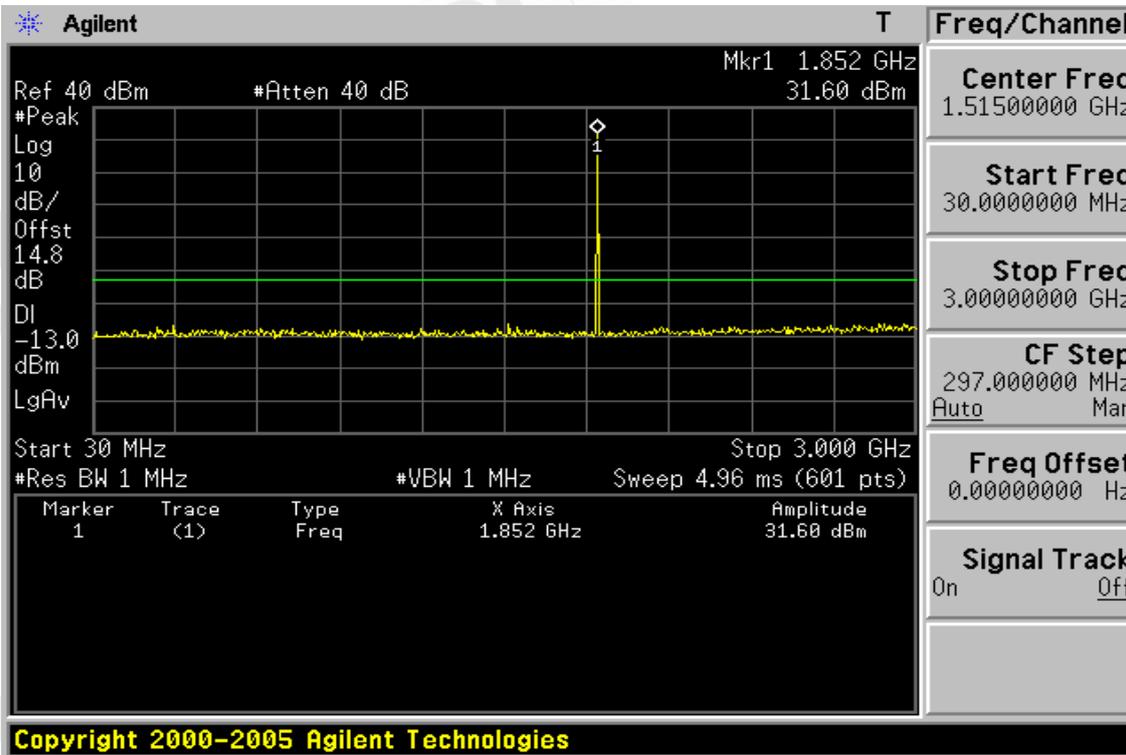
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
823.998	-17.85	-13.00	4.85
849.024	-16.63	-13.00	3.63

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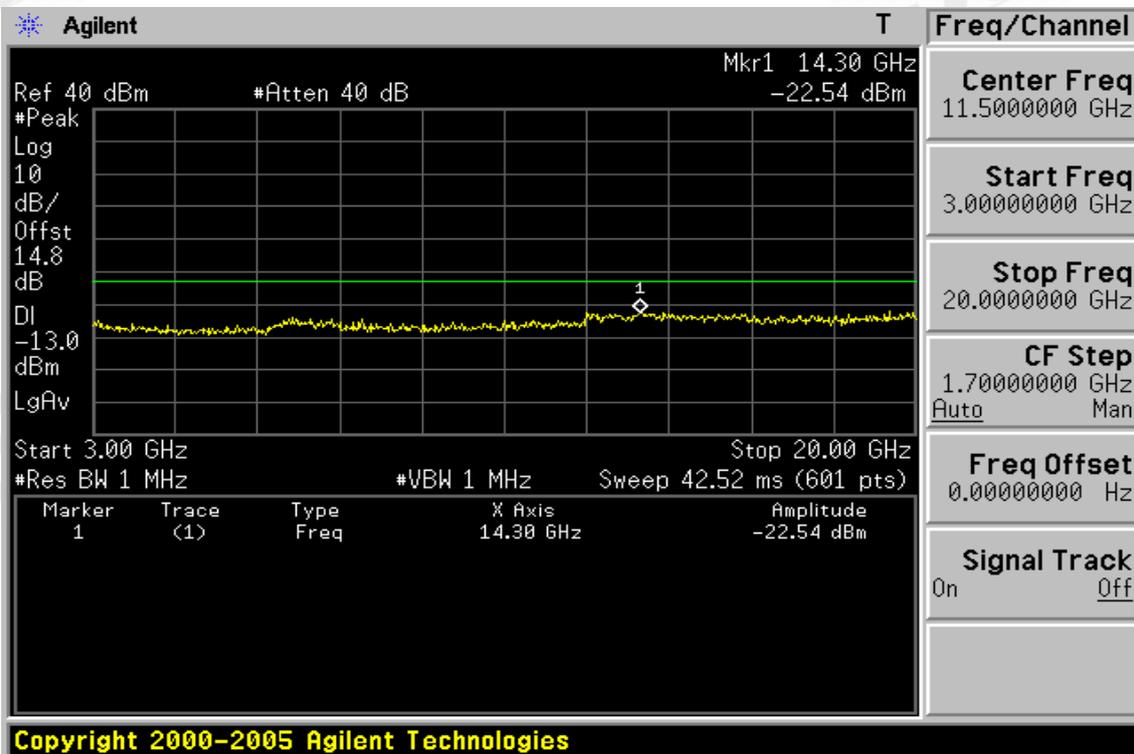
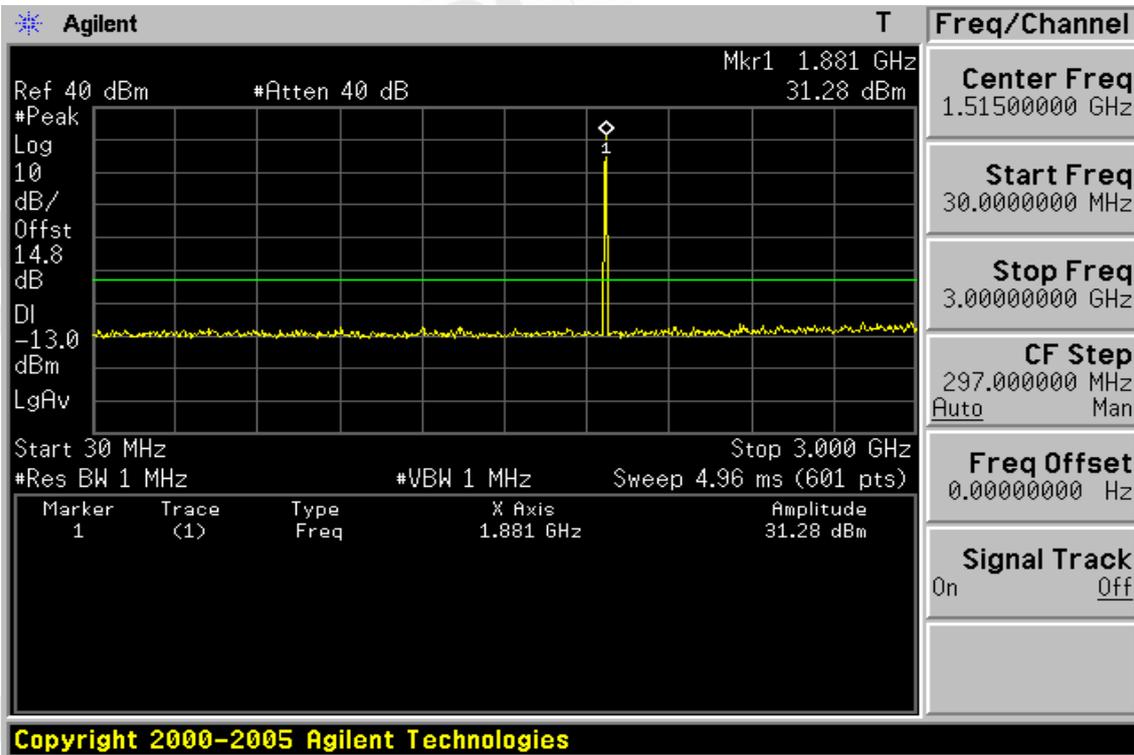
Figure 9-6: Out of Band emission at antenna terminals – GSM 1900 Channel Lowest



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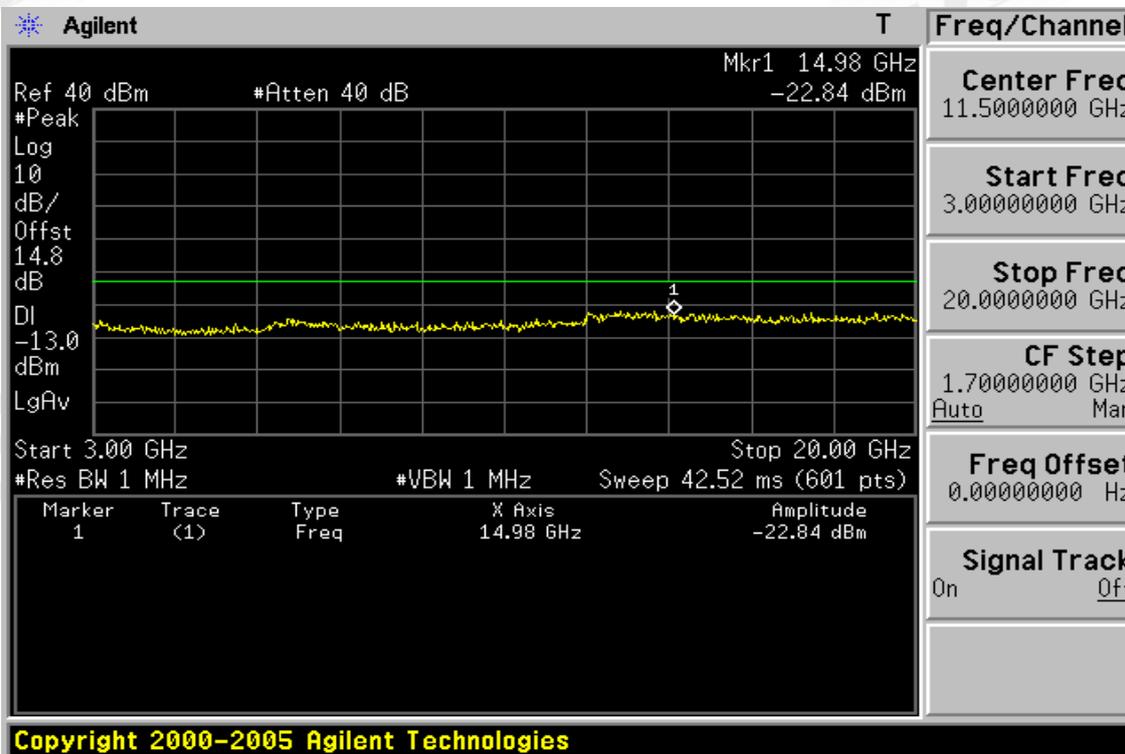
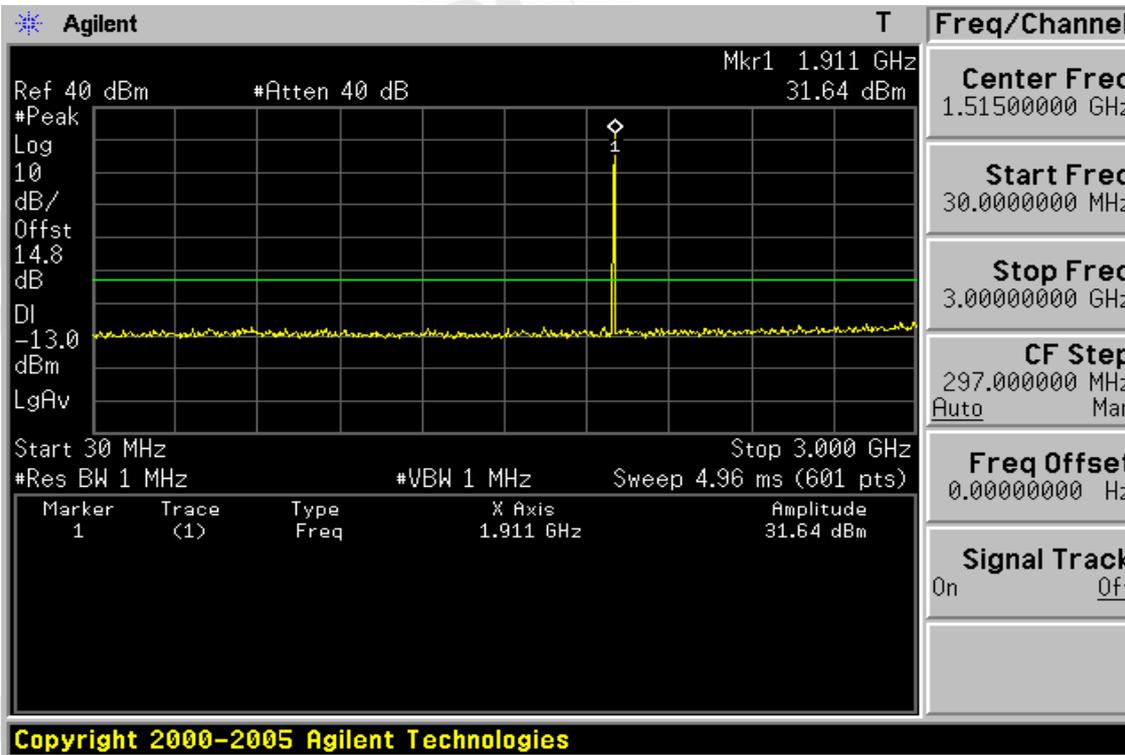
**Figure 9-7: Out of Band emission at antenna terminals – GSM 1900 Channel Mid**



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Figure 9-8: Out of Band emission at antenna terminals – GSM 1900 Channel Highest



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**Out of Band emission at antenna terminals – GSM 1900**

Fundamental Frequency :1850.2 MHz Engineer :Jay  
Operation Mode :TX Low

30-1000	S	---	-13.00	---
3700.40	H	---	-13.00	---
5550.60	H	---	-13.00	---
7400.80	H	---	-13.00	---
9251.00	H	---	-13.00	---
11101.20	H	---	-13.00	---
12951.40	H	---	-13.00	---
14801.60	H	---	-13.00	---
16651.80	H	---	-13.00	---
17900.00	S	-22.18	-13.00	9.18
18502.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
“---“ : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Jay  
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
14300.00	S	-22.54	-13.00	9.54
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Fundamental Frequency :1909.8 MHz Engineer :Jay  
Operation Mode :TX High

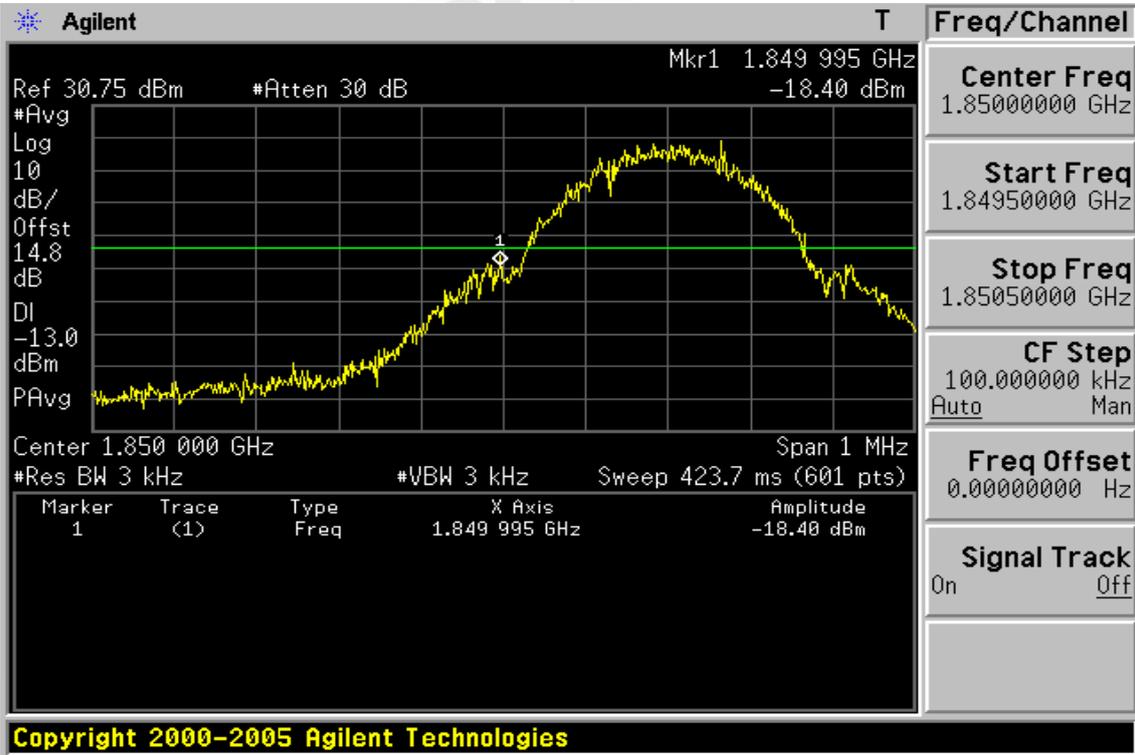
Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3819.60	H	---	-13.00	---
5729.40	H	---	-13.00	---
7639.20	H	---	-13.00	---
9549.00	H	---	-13.00	---
11458.80	H	---	-13.00	---
13368.60	H	---	-13.00	---
14980.00	S	-22.84	-13.00	9.84
15278.40	H	---	-13.00	---
17188.20	H	---	-13.00	---
19098.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

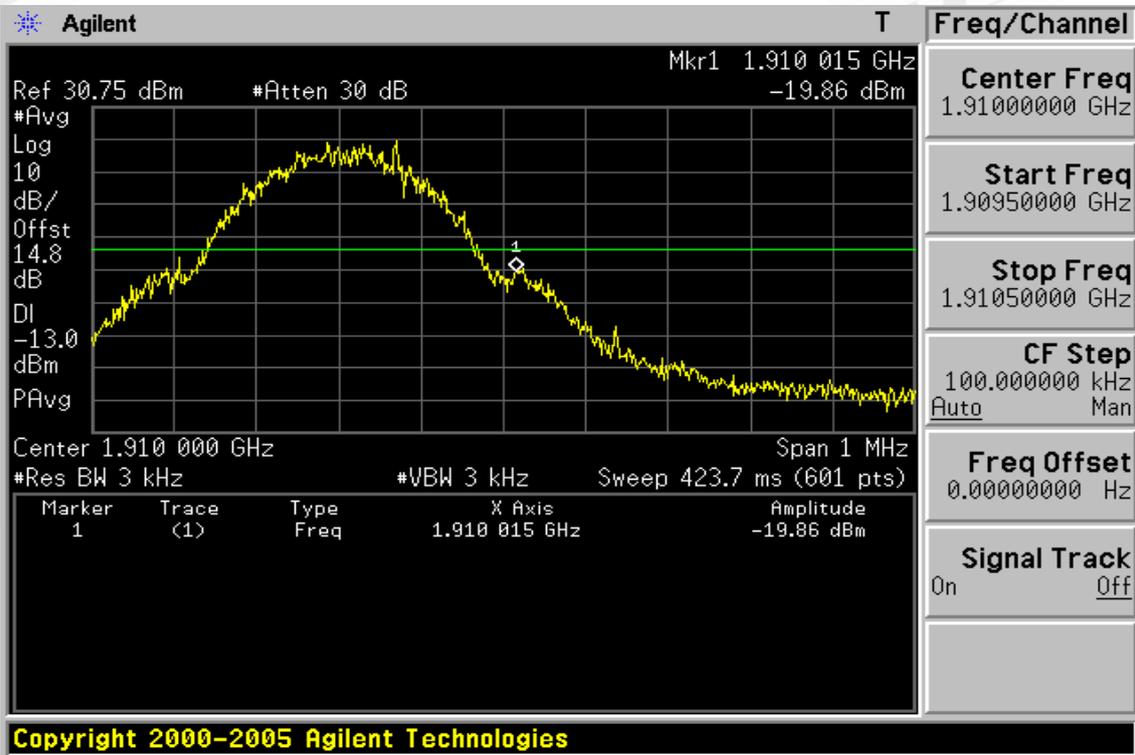
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**Figure 9-9: Bad edge emission at antenna terminals – GSM 1900 Channel Lowest**



**Figure 9-10: Band edge emission at antenna terminals – GSM 1900 Channel Highest**



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**Band edge emission at antenna terminals – GSM 1900 Low & High**

Test Mode GSM 1900 Engineer :Jay

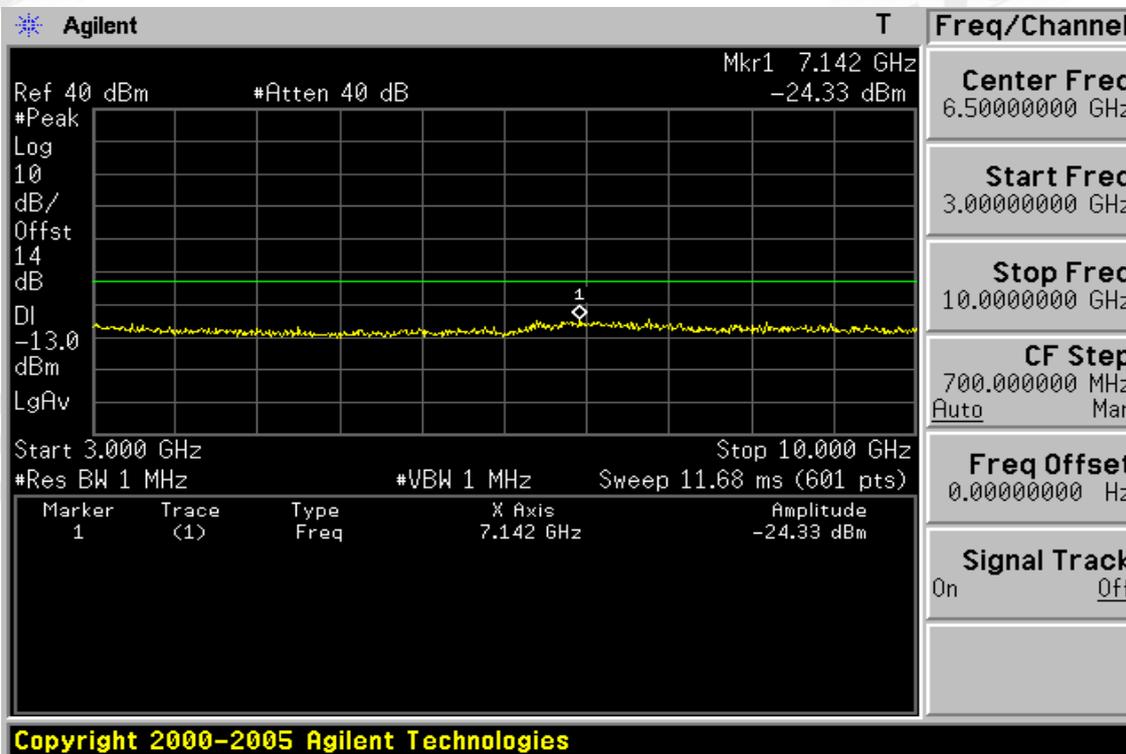
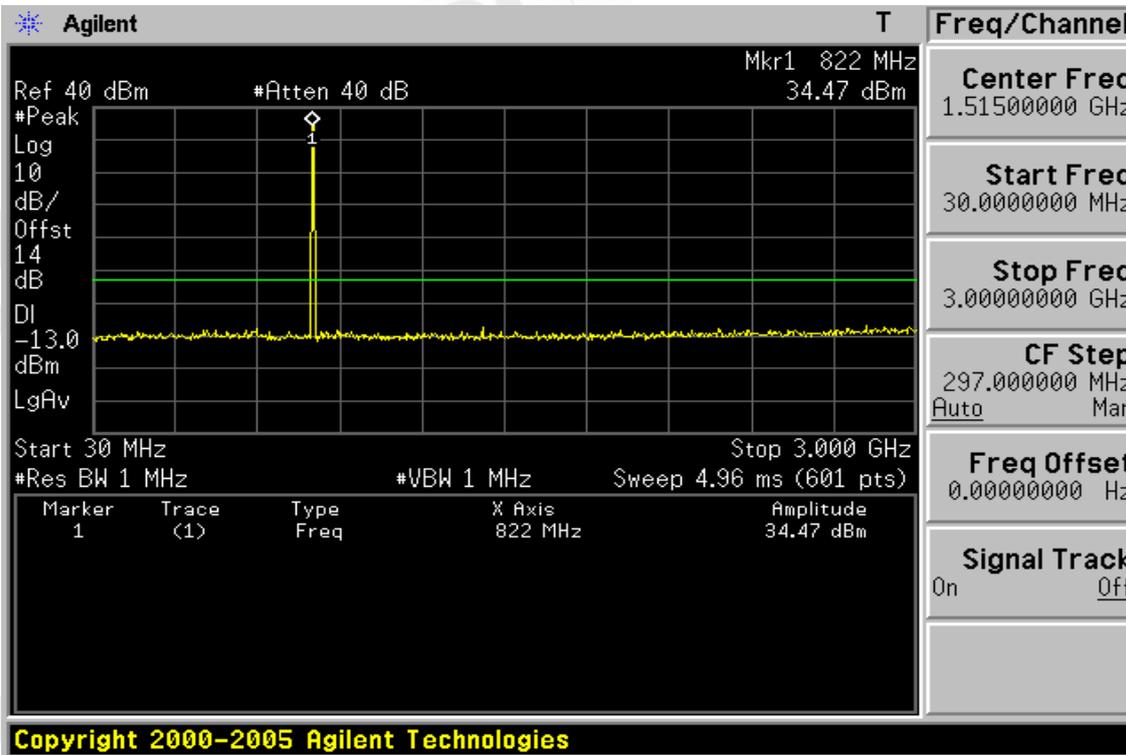
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.995	-18.4	-13.00	5.40
1910.015	-19.86	-13.00	6.86

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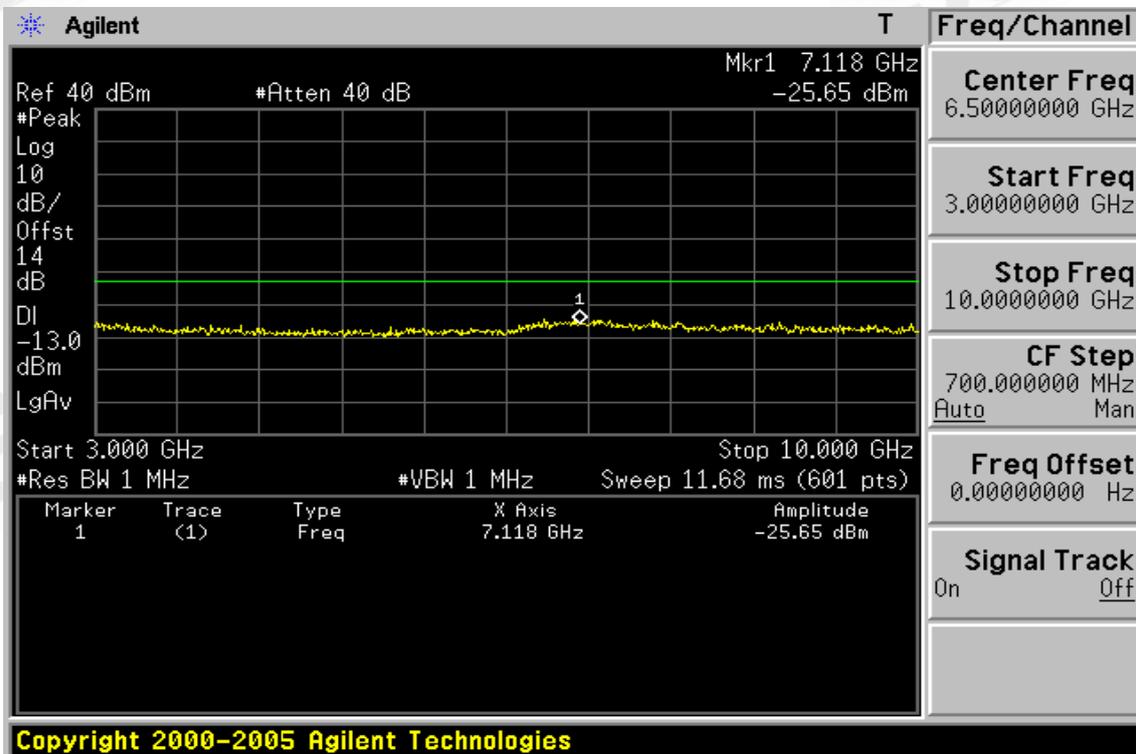
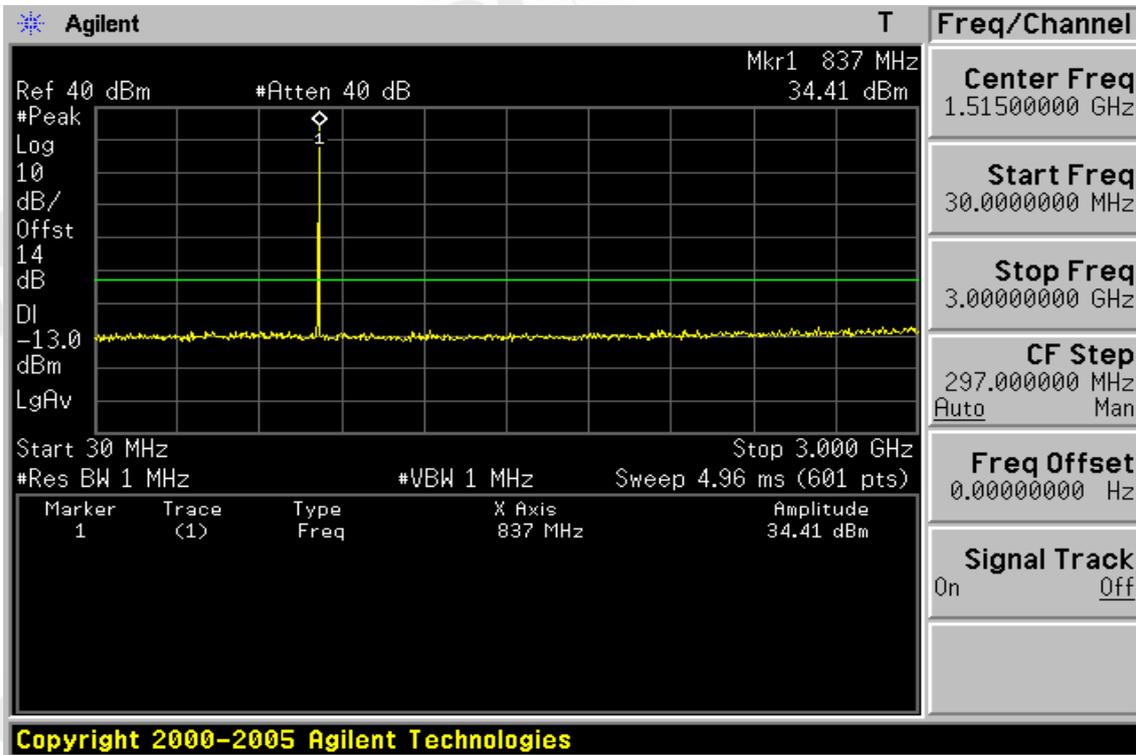
Figure 9-11: Out of Band emission at antenna terminals – GPRS850 Channel Lowest



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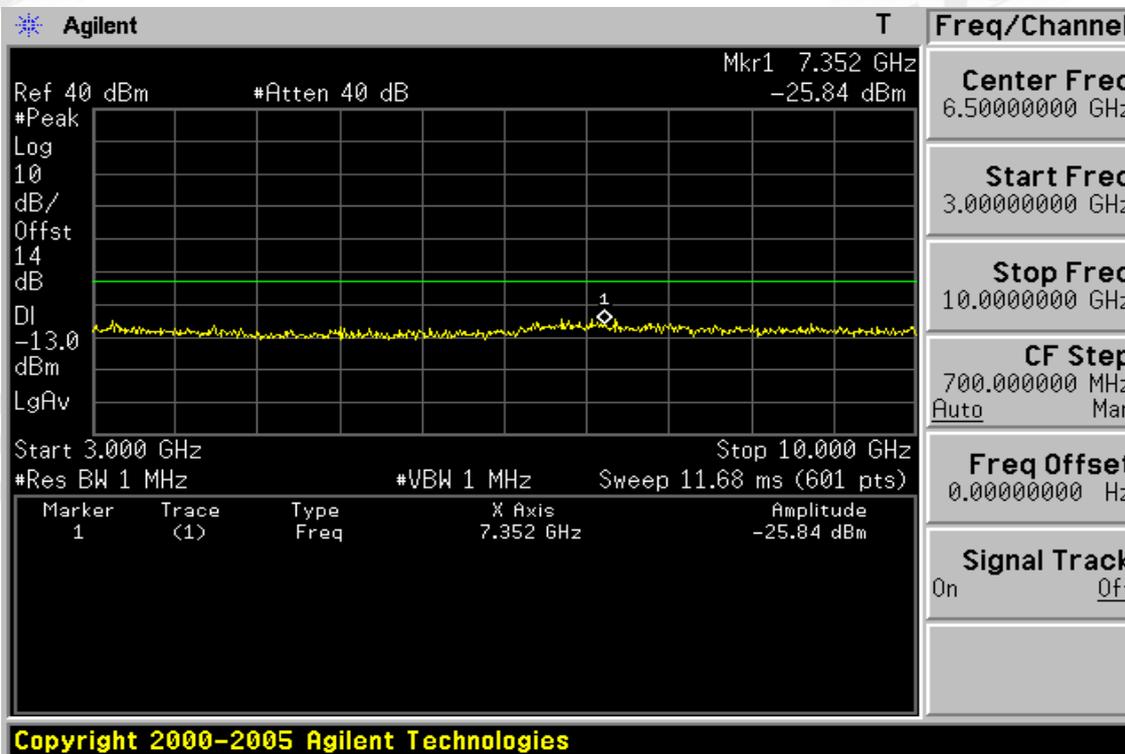
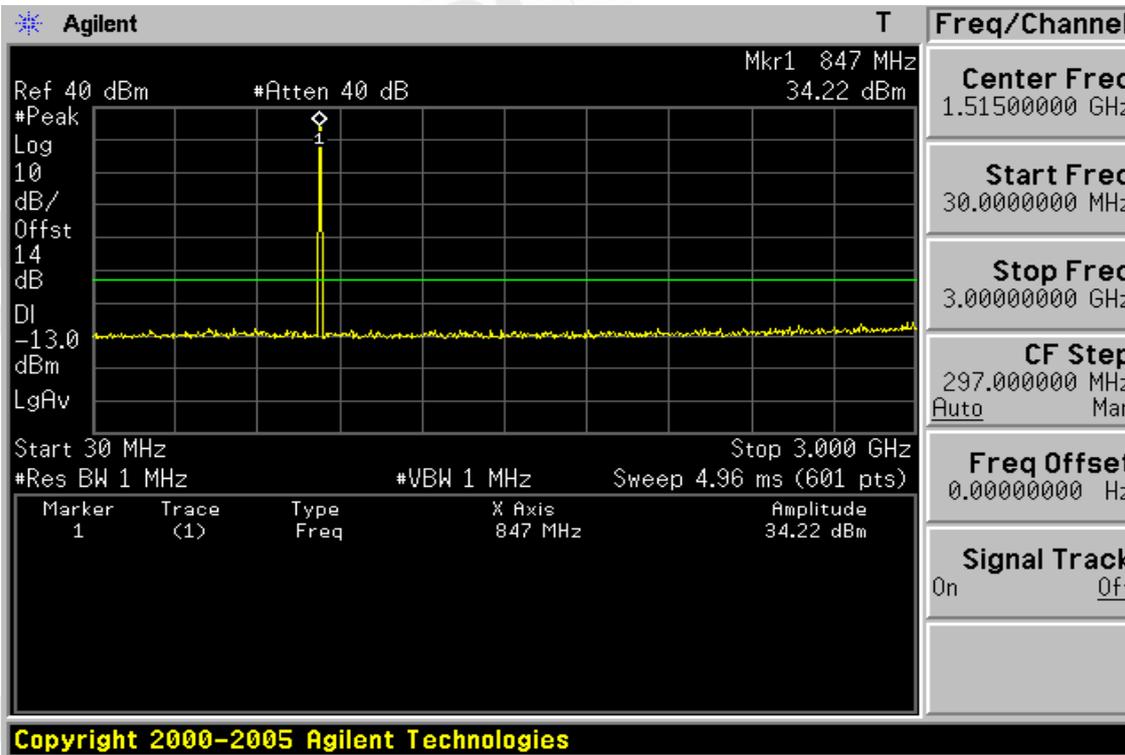
**Figure 9-12: Out of Band emission at antenna terminals – GPRS 850 Channel Mid**



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Figure 9-13: Out of Band emission at antenna terminals – GPRS 850 Channel Highest



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**Out of Band emission at antenna terminals – GPRS 850**

Fundamental Frequency :824.2 MHz Engineer :Jay  
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1648.40	H	---	-13.00	---
2472.60	H	---	-13.00	---
3296.80	H	---	-13.00	---
4121.00	H	---	-13.00	---
4945.20	H	---	-13.00	---
5769.40	H	---	-13.00	---
6593.60	H	---	-13.00	---
7142.00	S	-24.33	-13.00	11.33
7417.80	H	---	-13.00	---
8242.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
“---“ : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz Engineer :Jay  
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.20	H	---	-13.00	---
2509.80	H	---	-13.00	---
3346.40	H	---	-13.00	---
4183.00	H	---	-13.00	---
5019.60	H	---	-13.00	---
5856.20	H	---	-13.00	---
6692.80	H	---	-13.00	---
7118.00	S	-25.65	-13.00	12.65
7529.40	H	---	-13.00	---
8366.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Fundamental Frequency :848.8MHz Engineer :Jay  
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1697.60	H	---	-13.00	---
2546.40	H	---	-13.00	---
3395.20	H	---	-13.00	---
4244.00	H	---	-13.00	---
5092.80	H	---	-13.00	---
5941.60	H	---	-13.00	---
6790.40	H	---	-13.00	---
7325.00	S	-25.84	-13.00	12.84
7639.20	H	---	-13.00	---
8488.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Figure 9-14: Band edge emission at antenna terminals – GPRS 850 Channel Lowest

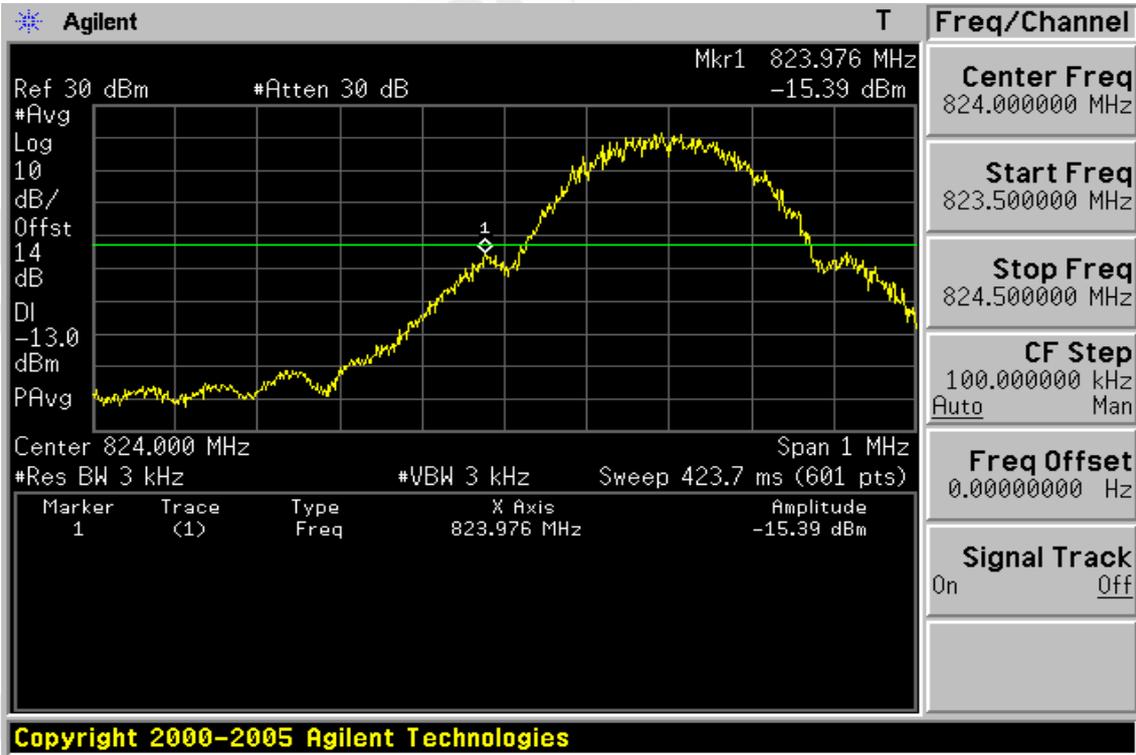
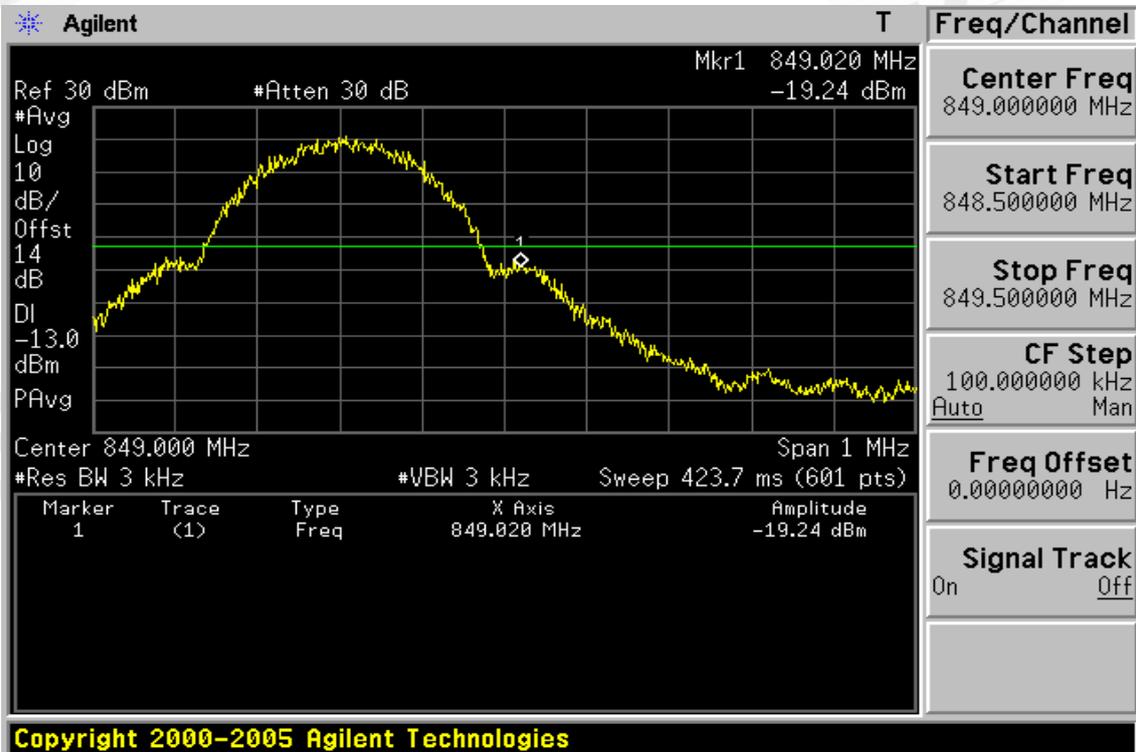


Figure 9-15: Band edge emission at antenna terminals – GPRS 850 Channel Highest



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**Band edge emission at antenna terminals – GPRS 850 Low & High**

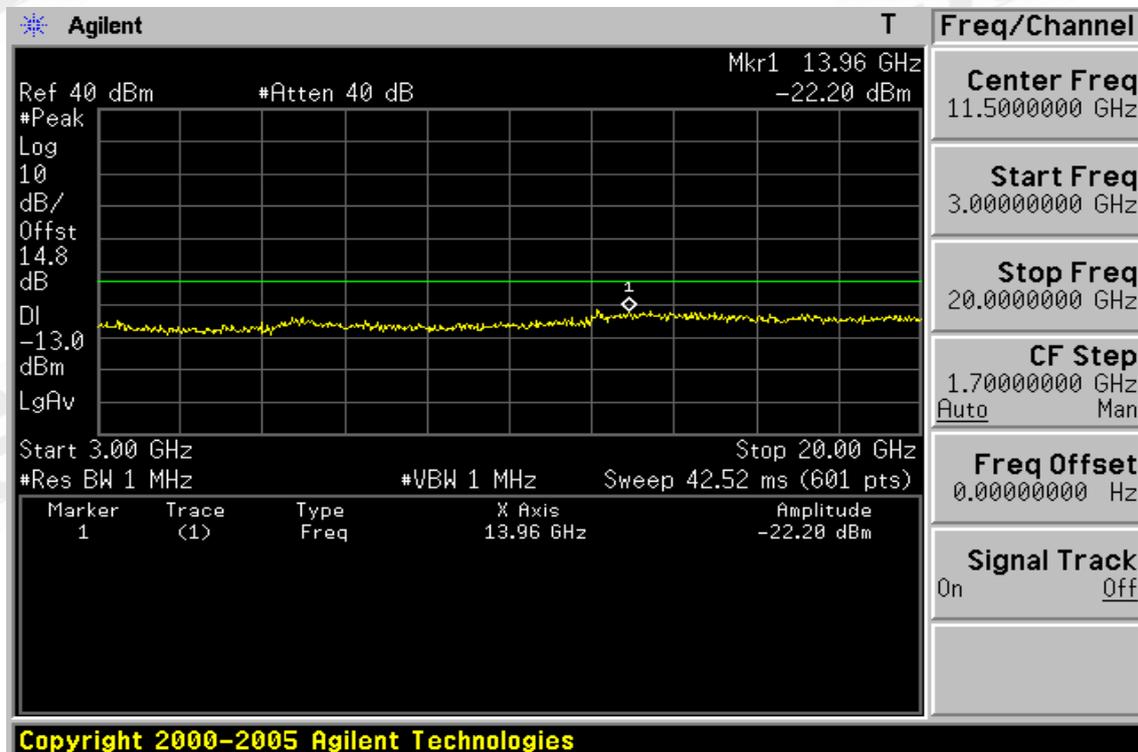
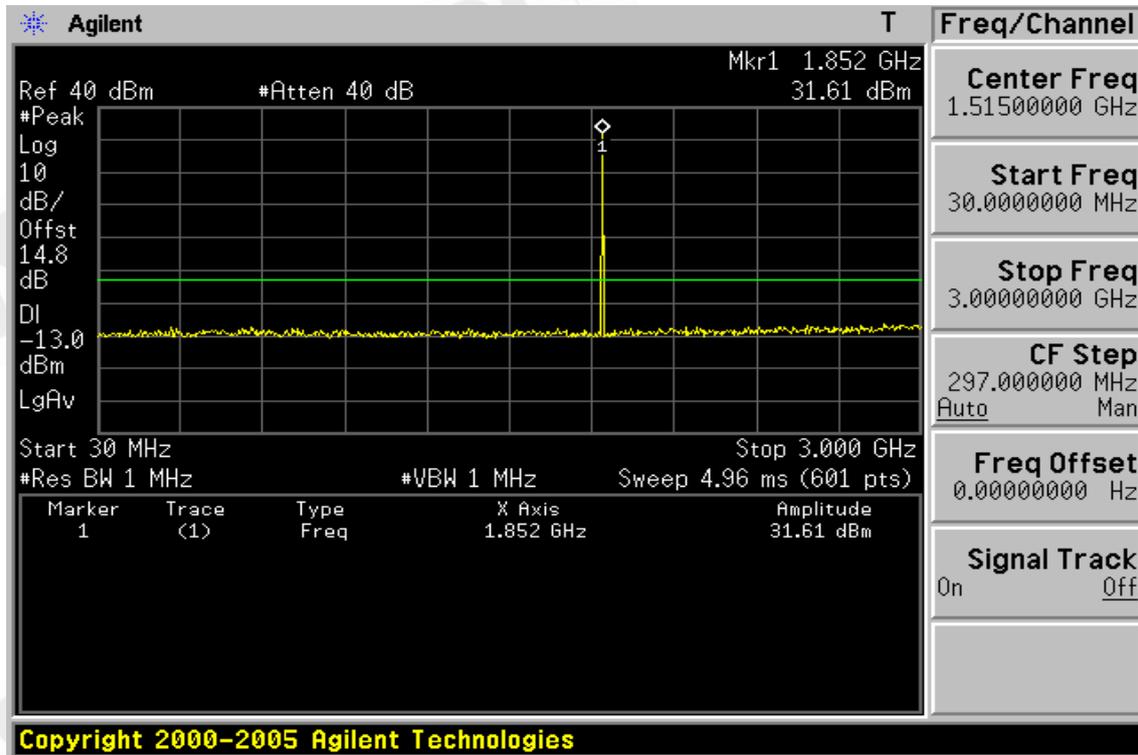
Test Mode                      GPRS 850                      Engineer                      :Jay

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
823.976	-15.39	-13.00	2.39
849.020	-19.24	-13.00	6.24

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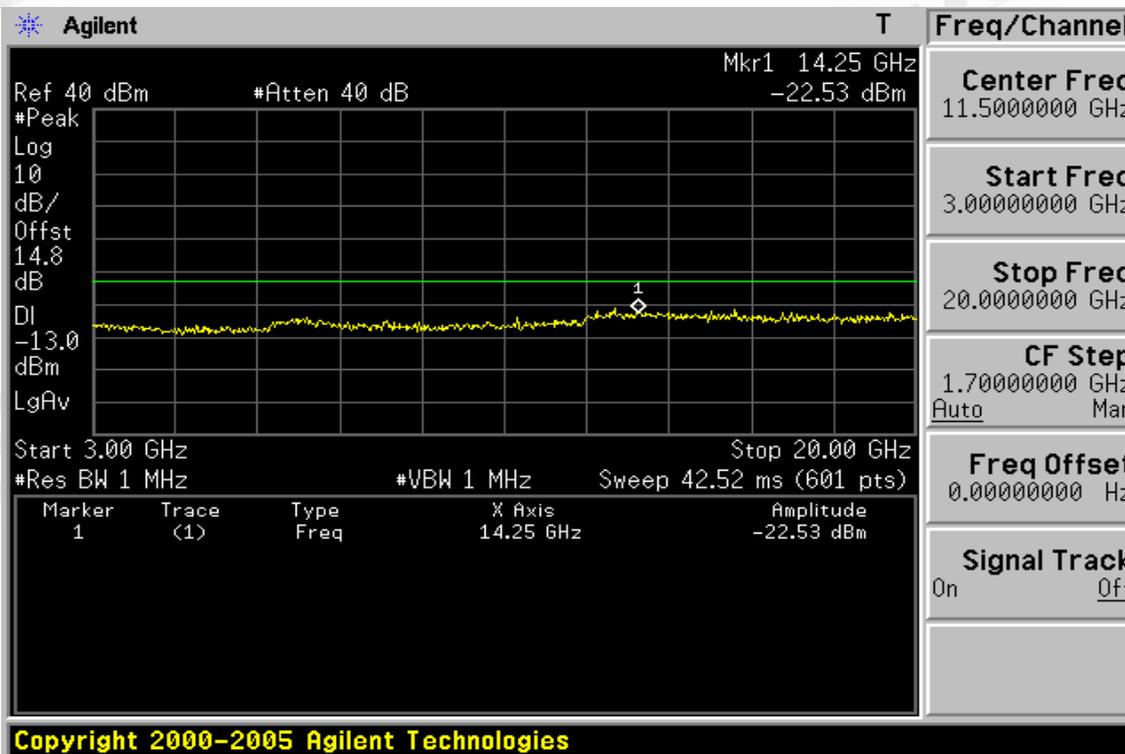
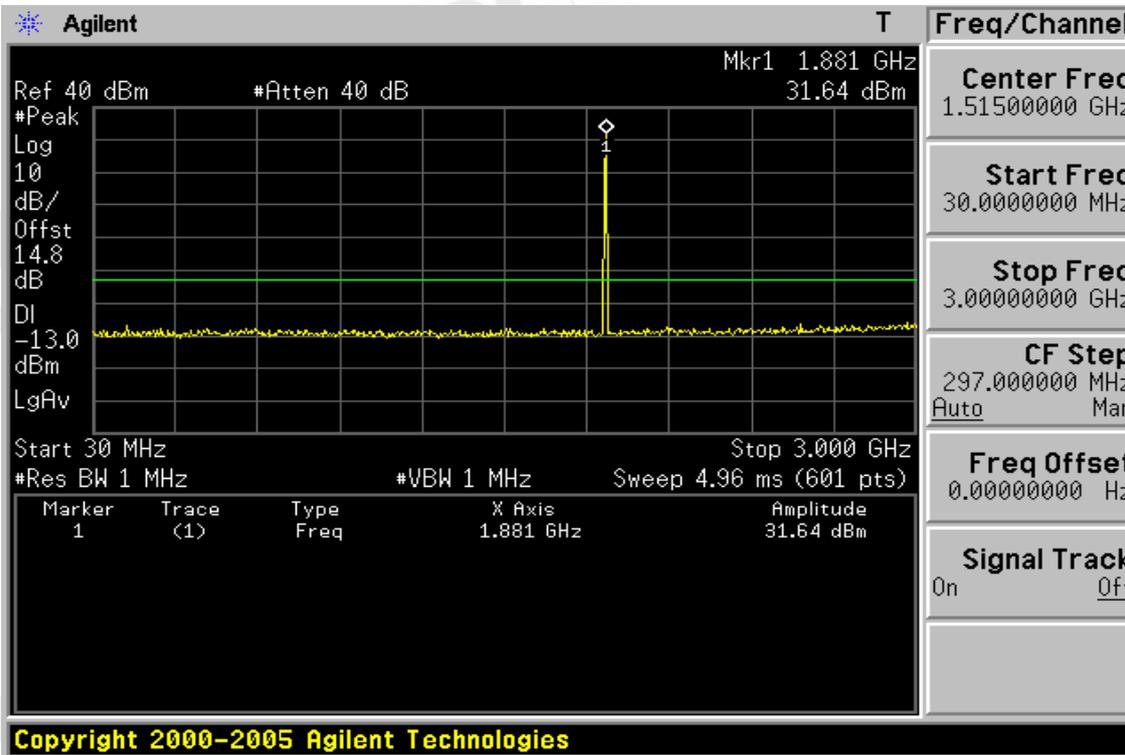
Figure 9-16: Out of Band emission at antenna terminals – GPRS 1900 Channel Lowest



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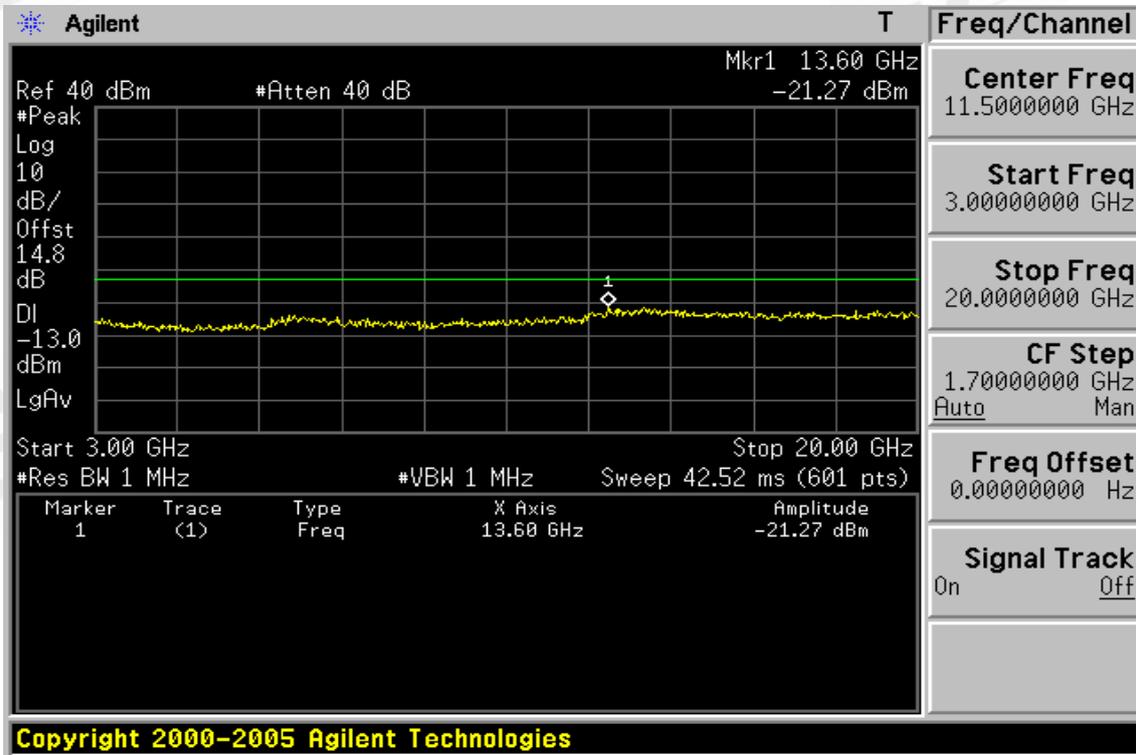
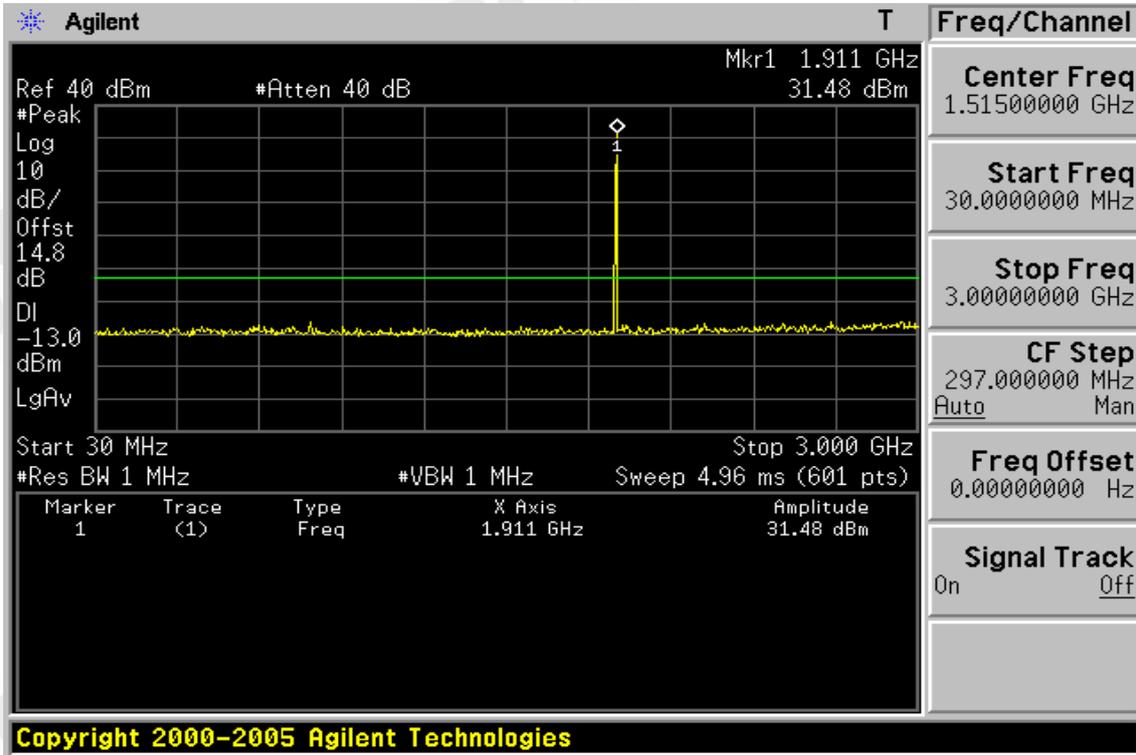
Figure 9-17: Out of Band emission at antenna terminals – GPRS 1900 Channel Mid



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Figure 9-18: Out of Band emission at antenna terminals – GPRS 1900 Channel Highest



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## Out of Band emission at antenna terminals – GPRS 1900

Fundamental Frequency :1850.2 MHz Engineer :Jay  
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3700.40	H	---	-13.00	---
5550.60	H	---	-13.00	---
7400.80	H	---	-13.00	---
9251.00	H	---	-13.00	---
11101.20	H	---	-13.00	---
12951.40	H	---	-13.00	---
13960.00	S	-22.2	-13.00	9.20
14801.60	H	---	-13.00	---
16651.80	H	---	-13.00	---
18502.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
“---“ : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Jay  
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
14250.00	S	-22.53	-13.00	9.53
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Fundamental Frequency :1909.8 MHz Engineer :Jay  
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3819.60	H	---	-13.00	---
5729.40	H	---	-13.00	---
7639.20	H	---	-13.00	---
9549.00	H	---	-13.00	---
11458.80	H	---	-13.00	---
13368.60	H	---	-13.00	---
13600.00	S	-21.27	-13.00	8.27
15278.40	H	---	-13.00	---
17188.20	H	---	-13.00	---
19098.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Figure 9-19: Bad edge emission at antenna terminals – GPRS 1900 Channel Lowest

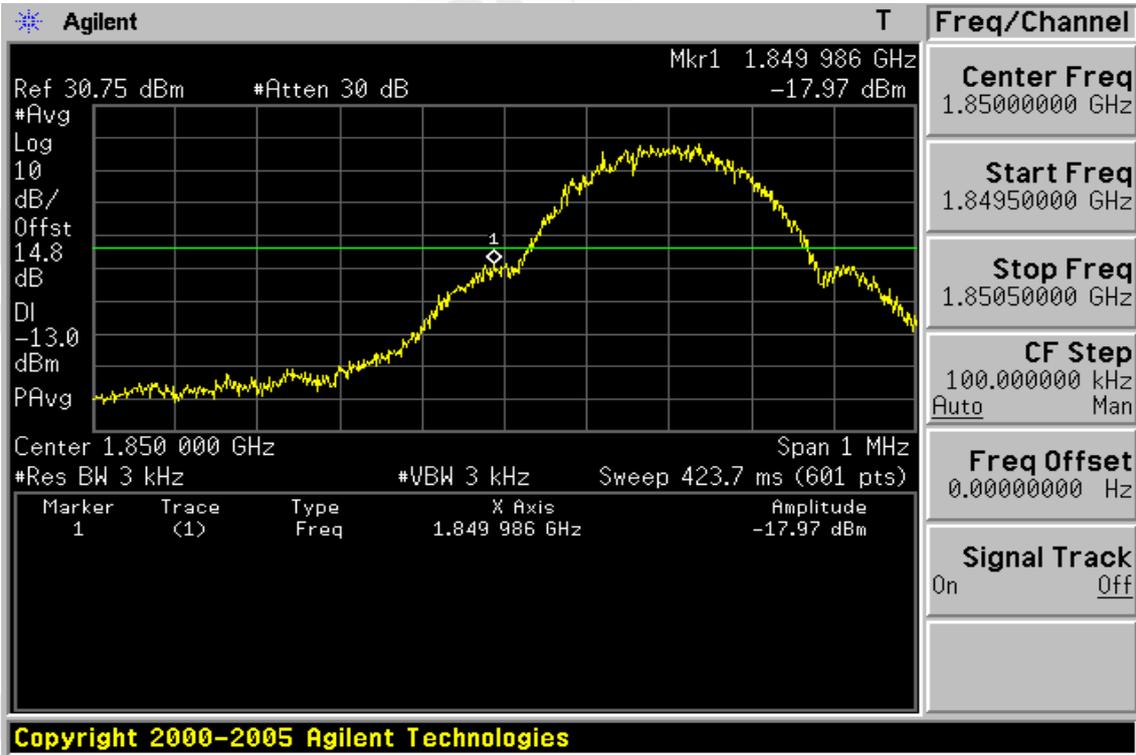
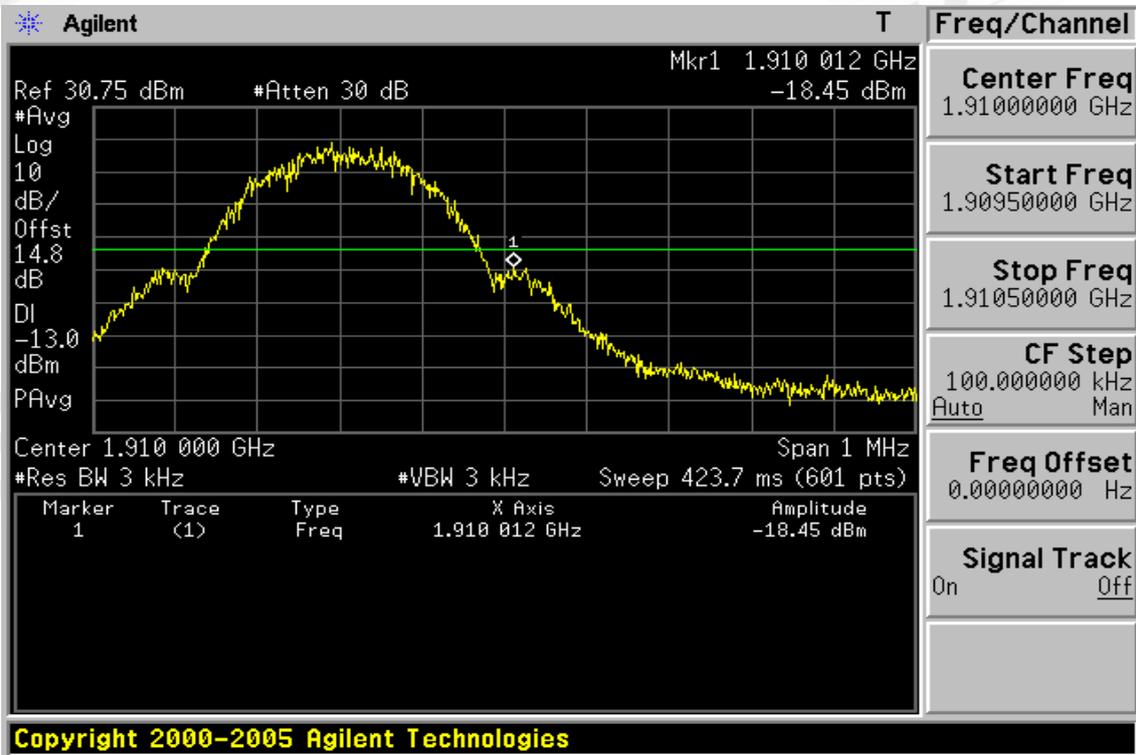


Figure 9-20: Band edge emission at antenna terminals – GPRS 1900 Channel Highest



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**Band edge emission at antenna terminals – GPRS 1900 Low & High**

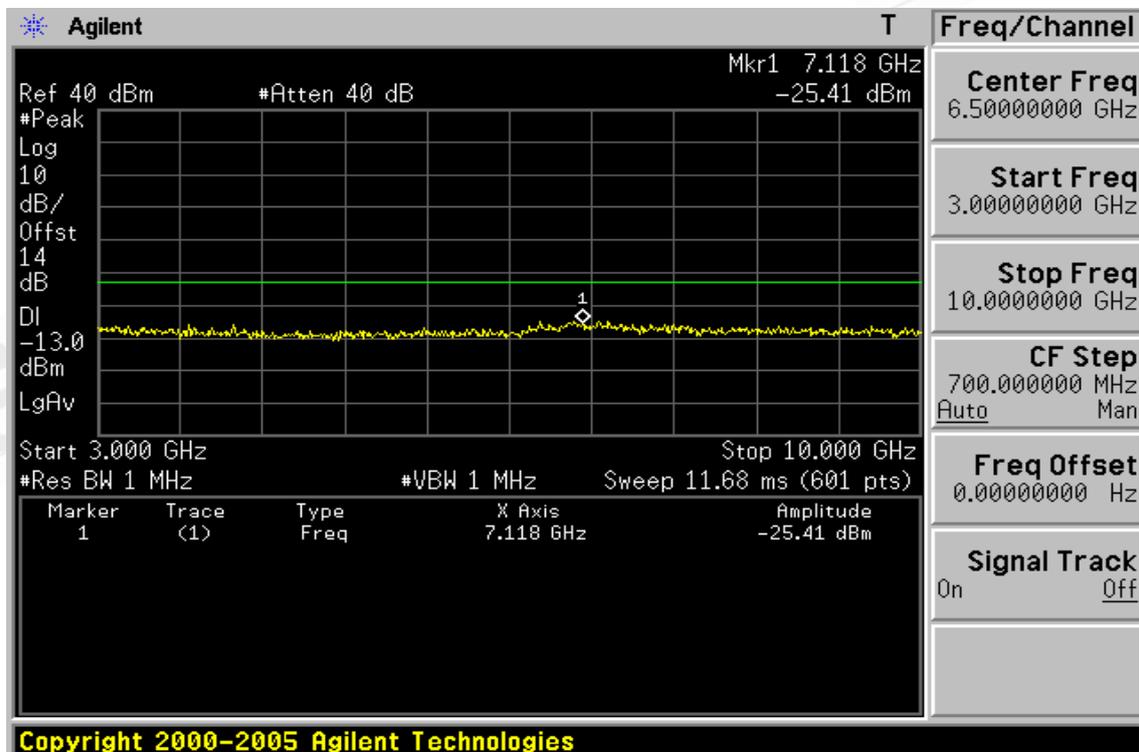
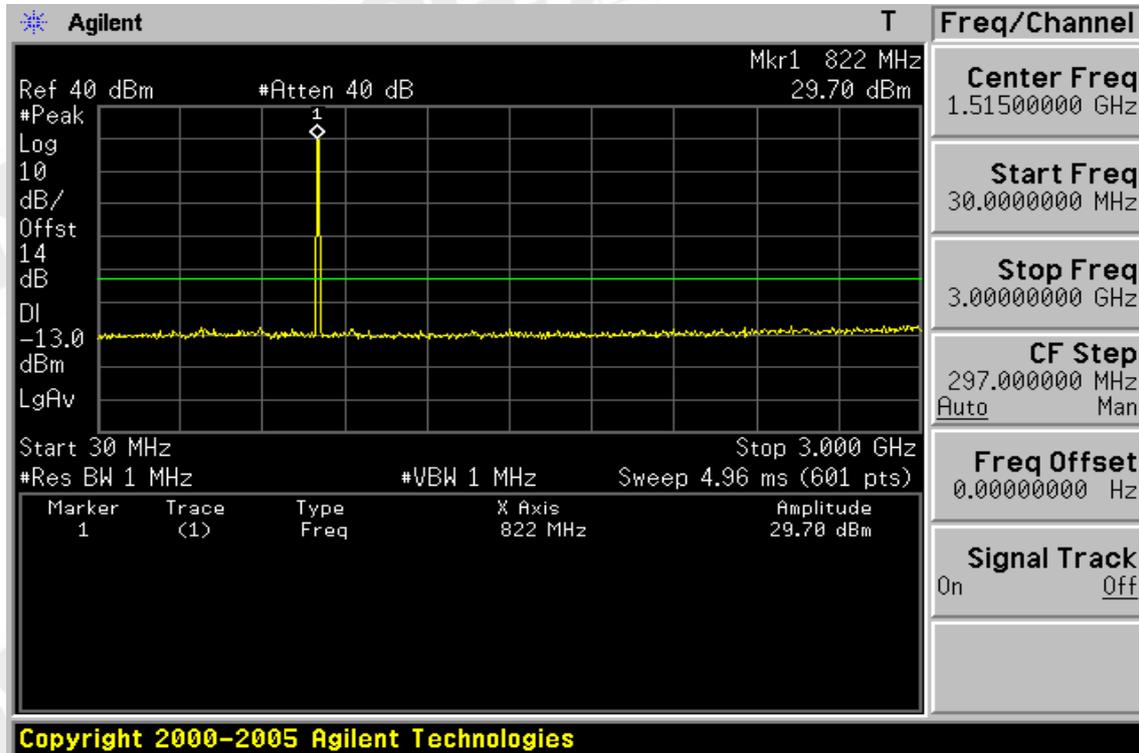
Test Mode                      GPRS 1900                      Engineer                      :Jay

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.986	-17.97	-13.00	4.97
1910.012	-18.45	-13.00	5.45

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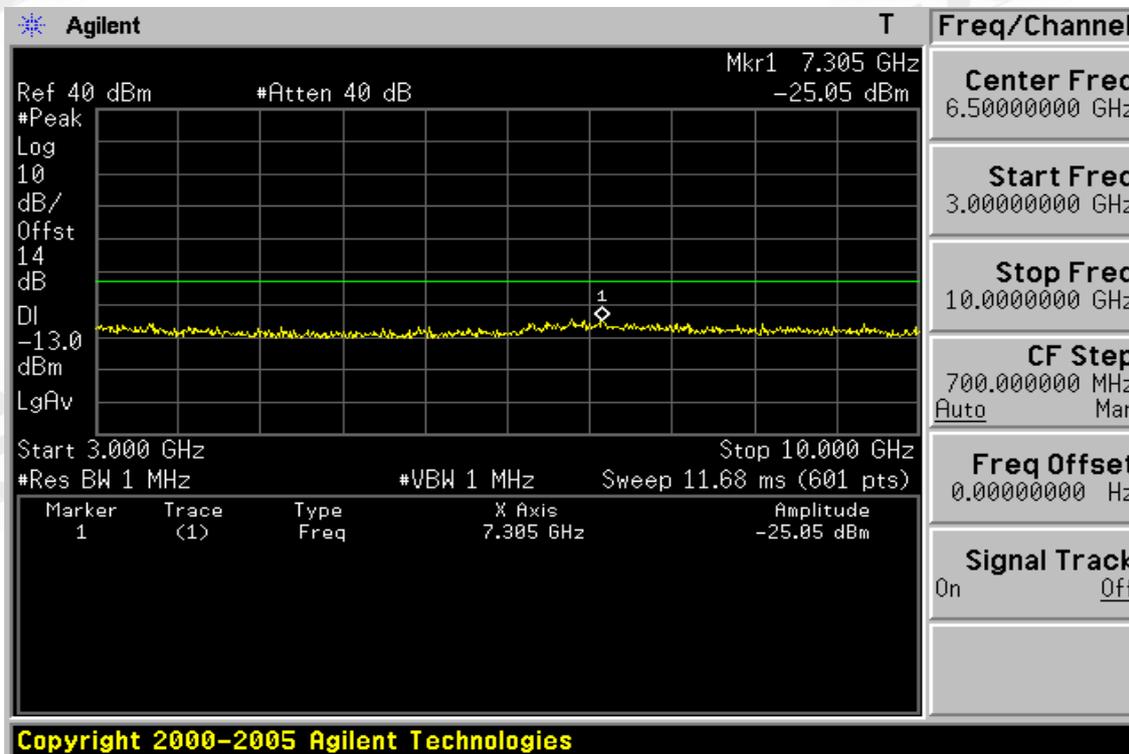
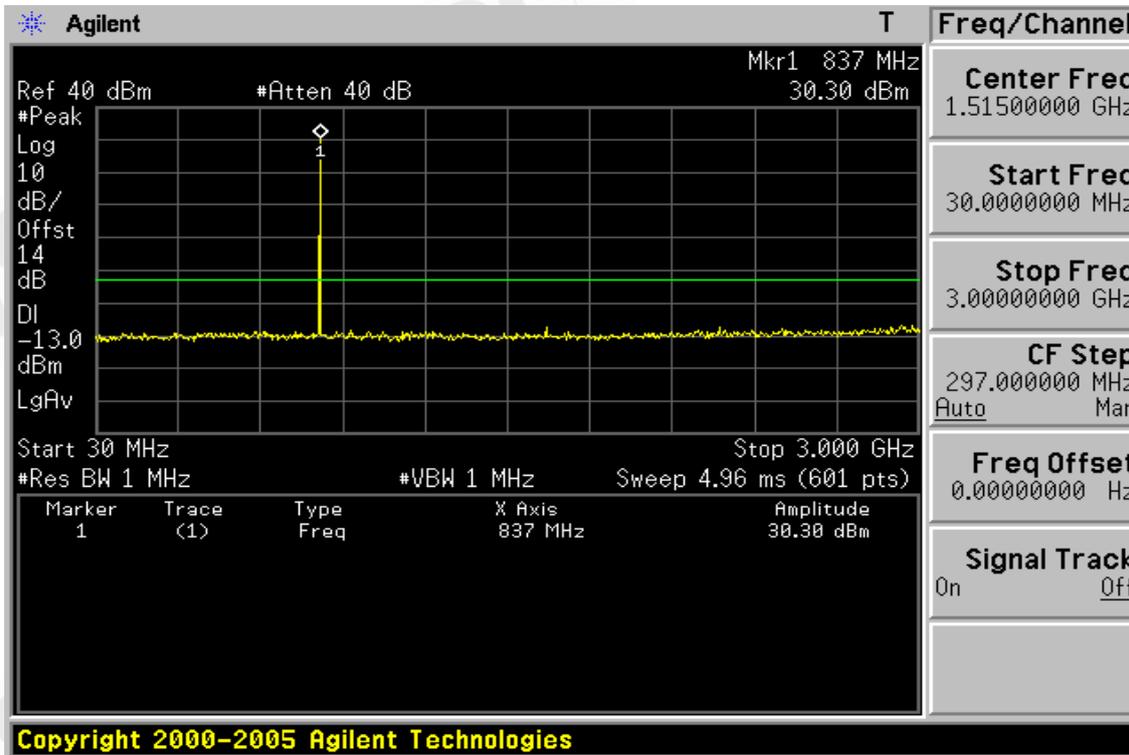
Figure 9-21: Out of Band emission at antenna terminals – EDGE 850 Channel Lowest



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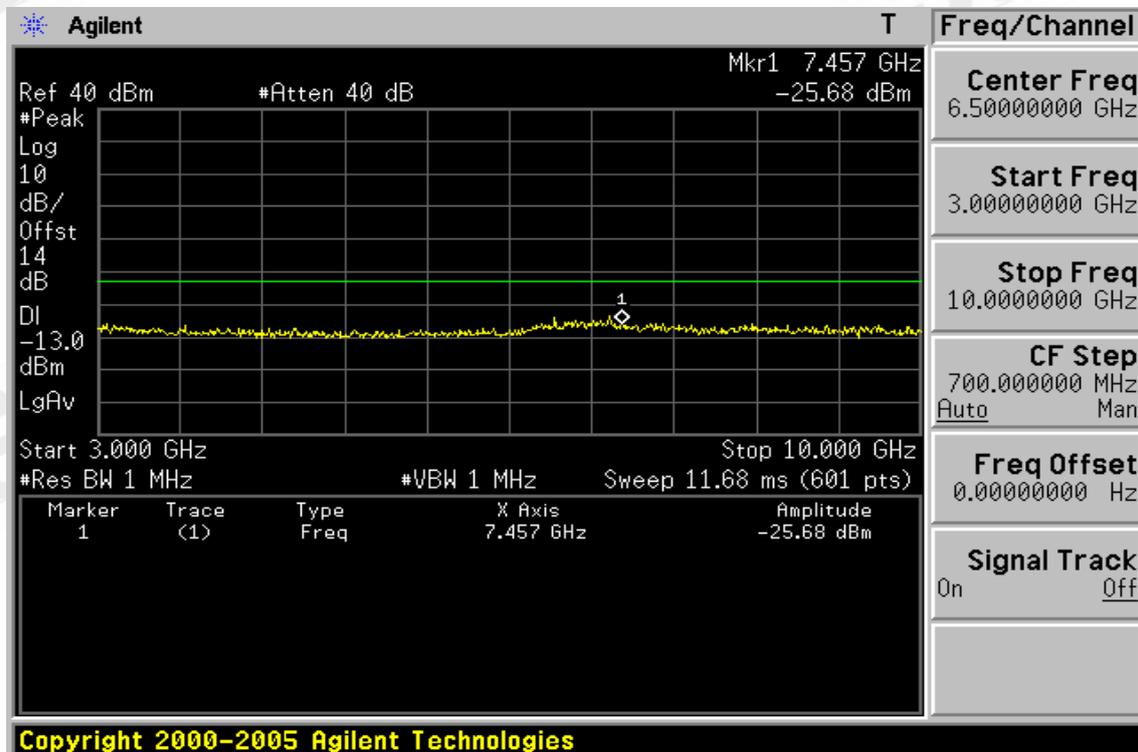
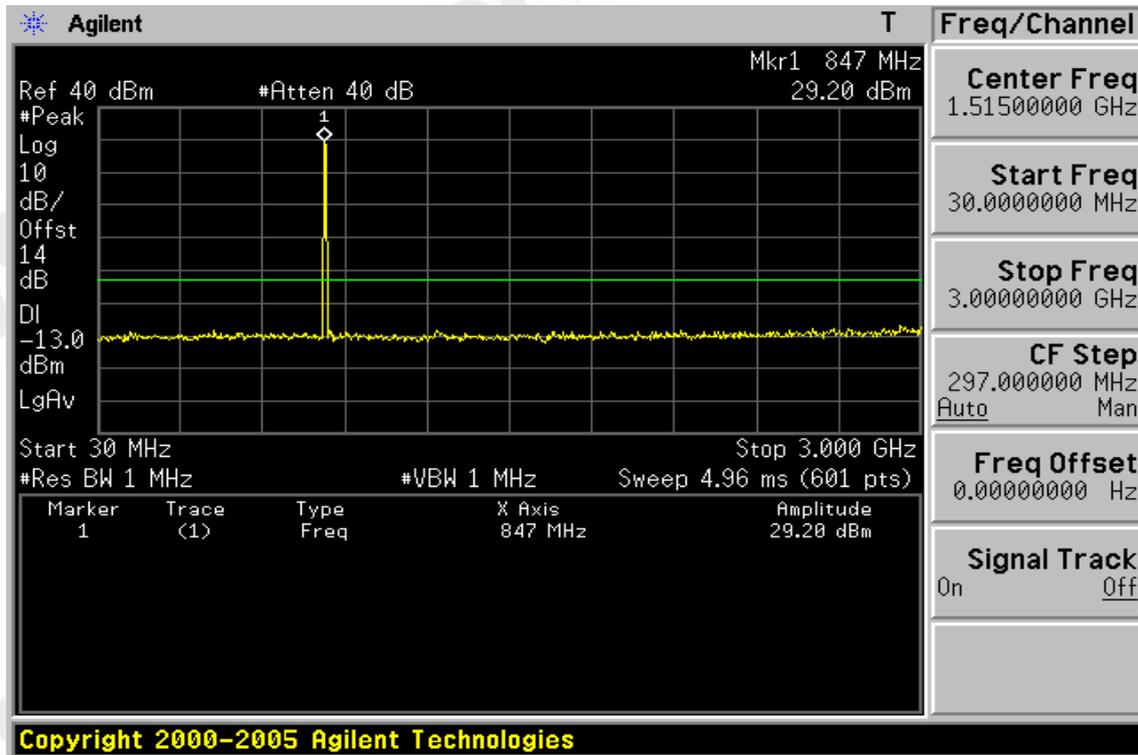
**Figure 9-22: Out of Band emission at antenna terminals – EDGE 850 Channel Mid**



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**Figure 9-23: Out of Band emission at antenna terminals – EDGE 850 Channel Highest**



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**Out of Band emission at antenna terminals – EDGE 850**

Fundamental Frequency :824.2 MHz Engineer :Jay  
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1648.40	H	---	-13.00	---
2472.60	H	---	-13.00	---
3296.80	H	---	-13.00	---
4121.00	H	---	-13.00	---
4945.20	H	---	-13.00	---
5769.40	H	---	-13.00	---
6593.60	H	---	-13.00	---
7118.00	S	-25.41	-13.00	12.41
7417.80	H	---	-13.00	---
8242.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
“---“ : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz Engineer :Jay  
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.20	H	---	-13.00	---
2509.80	H	---	-13.00	---
3346.40	H	---	-13.00	---
4183.00	H	---	-13.00	---
5019.60	H	---	-13.00	---
6692.80	H	---	-13.00	---
7305.00	S	-25.05	-13.00	12.05
7529.40	H	---	-13.00	---
8366.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Fundamental Frequency :848.8MHz Engineer :Jay  
Operation Mode :TX High

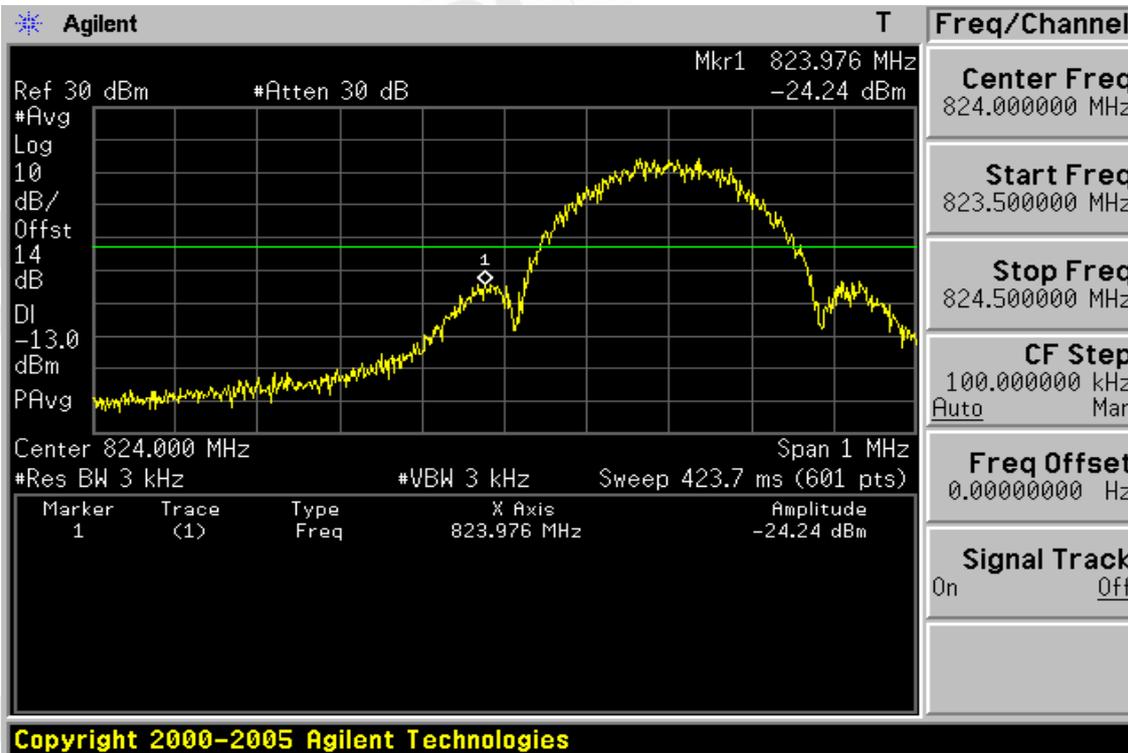
Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1697.60	H	---	-13.00	---
2546.40	H	---	-13.00	---
3395.20	H	---	-13.00	---
4244.00	H	---	-13.00	---
5092.80	H	---	-13.00	---
5941.60	H	---	-13.00	---
6790.40	H	---	-13.00	---
7457.00	S	-25.68	-13.00	12.68
7639.20	H	---	-13.00	---
8488.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

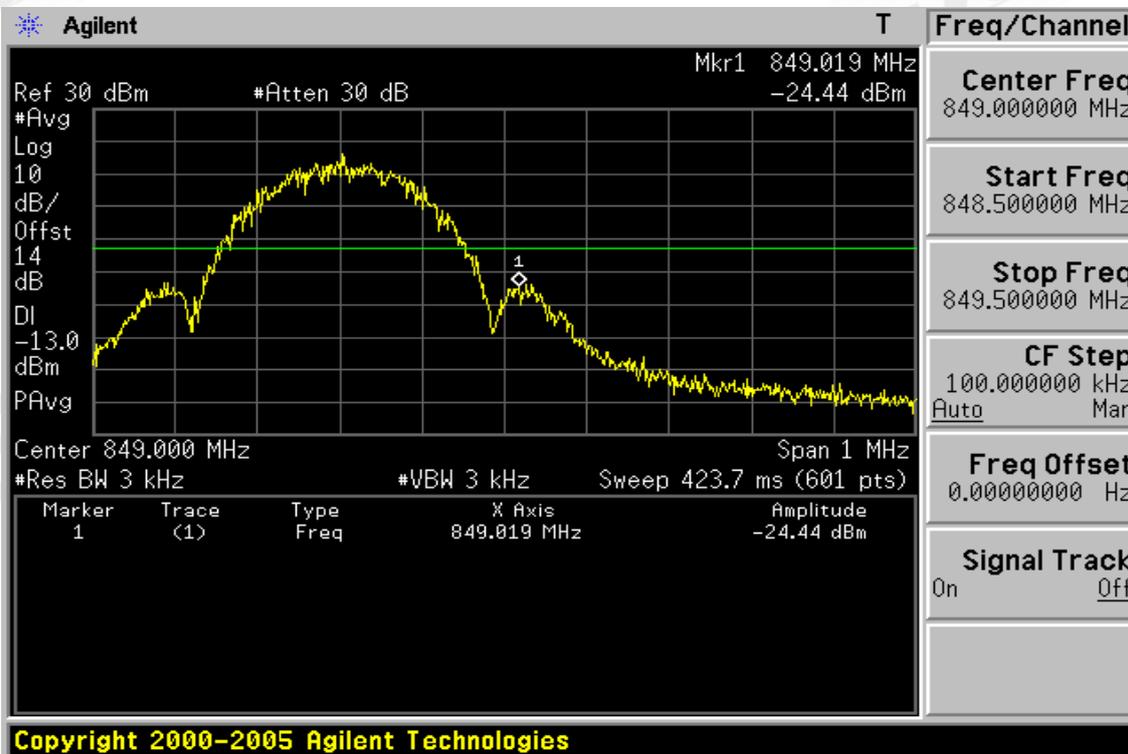
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**Figure 9-24: Band edge emission at antenna terminals – EDGE 850 Channel Lowest**



**Figure 9-25: Band edge emission at antenna terminals – EDGE 850 Channel Highest**



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**Band edge emission at antenna terminals – EDGE 850 Low & High**

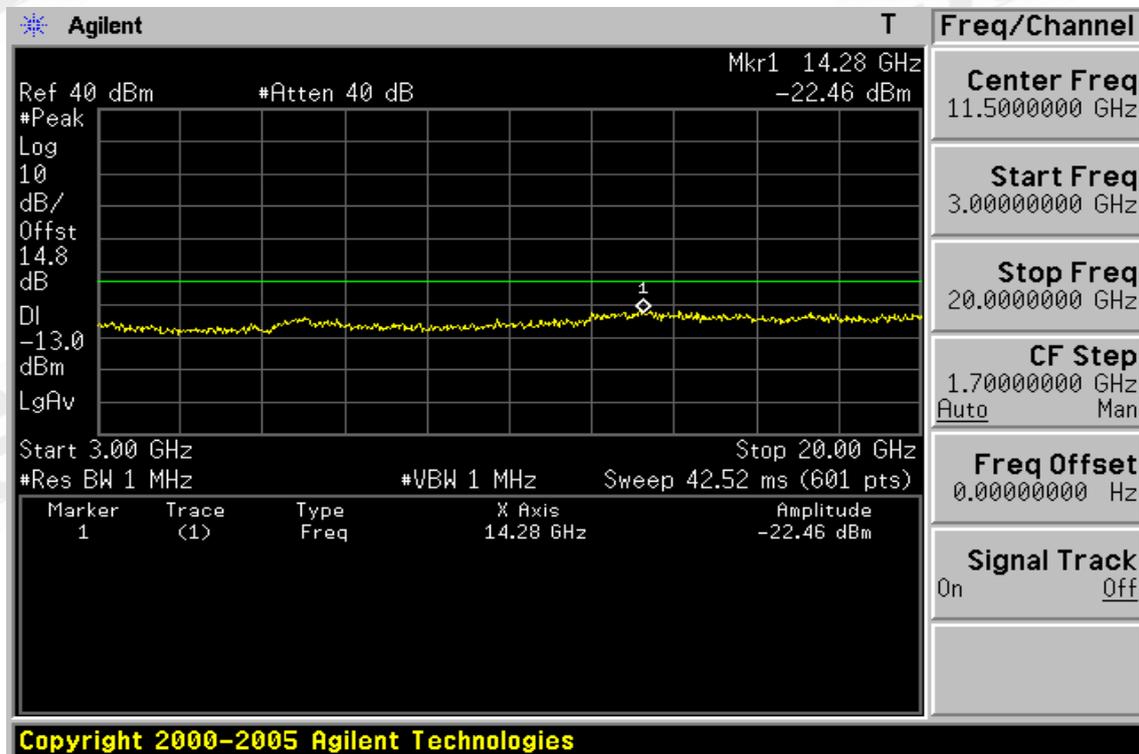
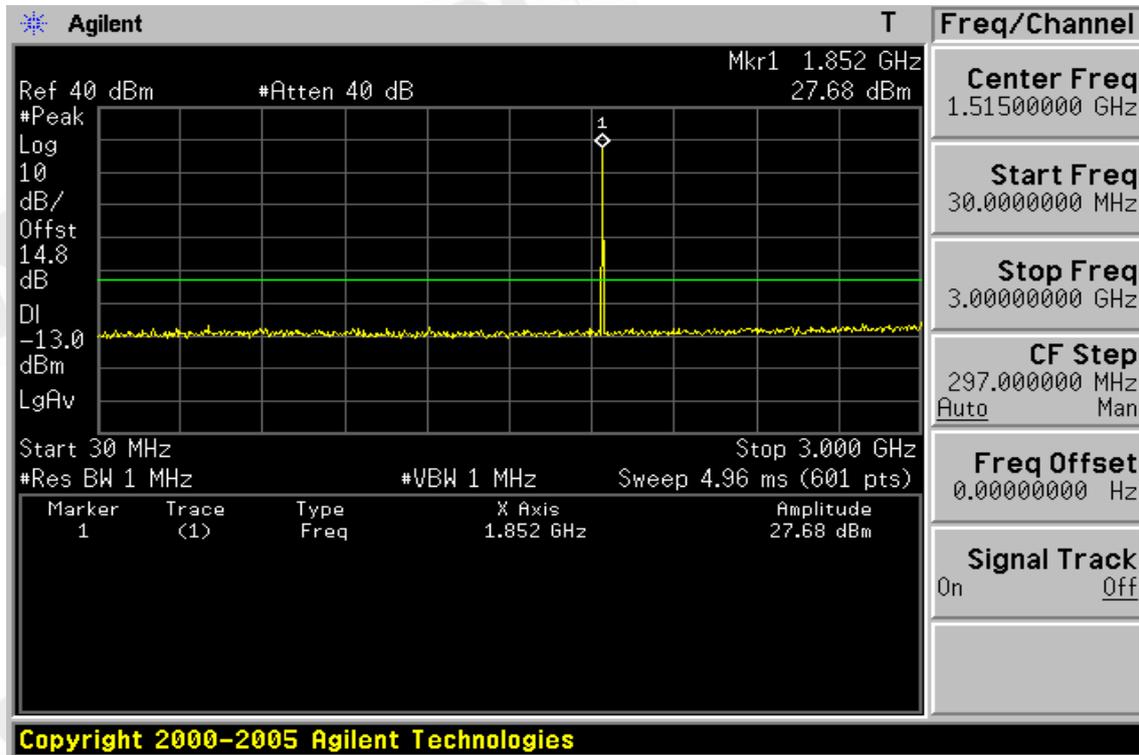
Test Mode                      EDGE 850                      Engineer                      :Jay

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
823.976	-24.24	-13.00	11.24
849.019	-24.44	-13.00	11.44

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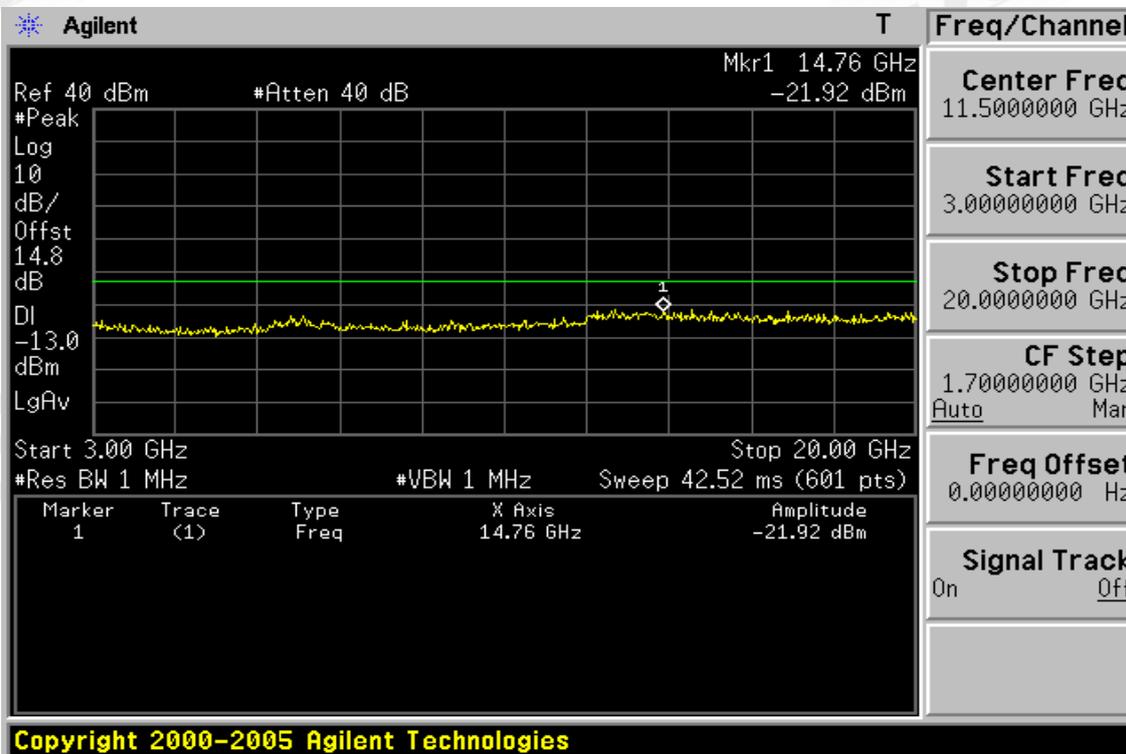
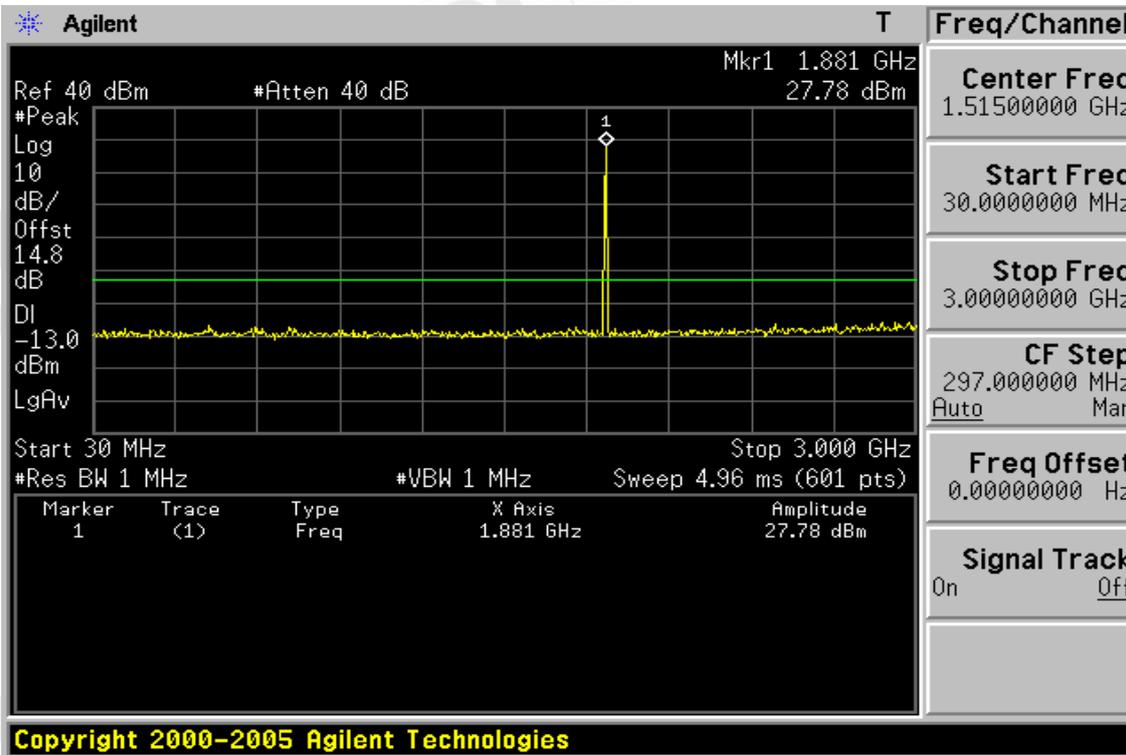
Figure 9-26: Out of Band emission at antenna terminals – EDGE 1900 Channel Lowest



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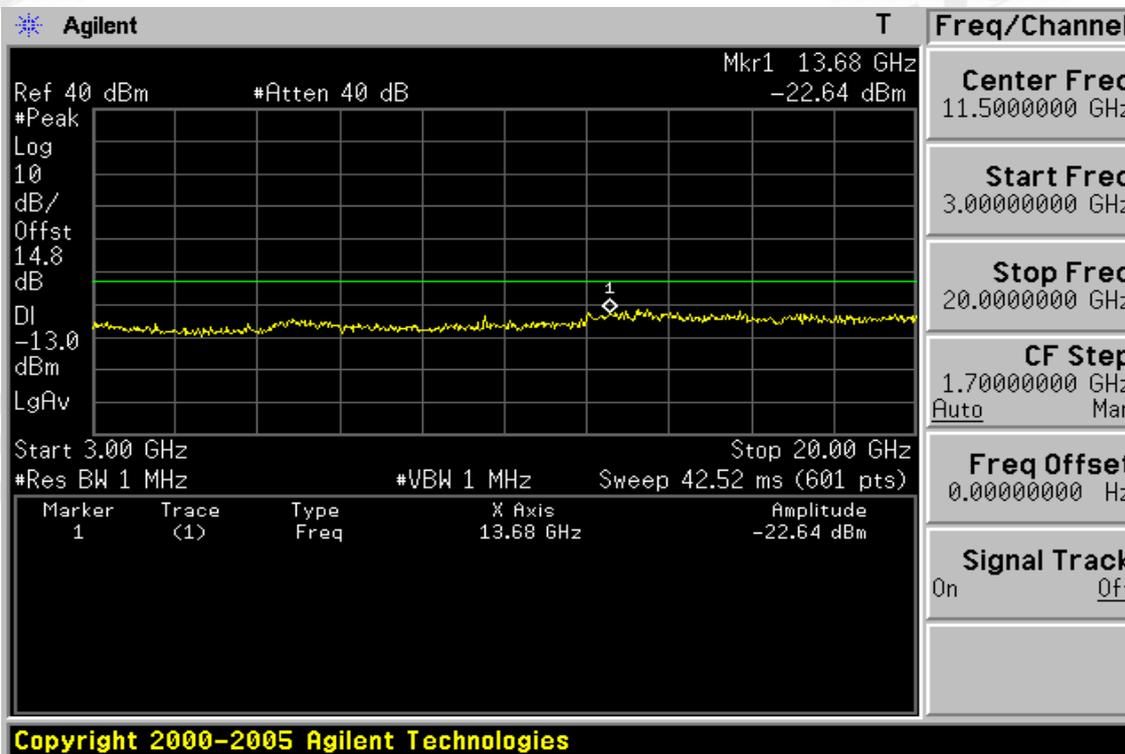
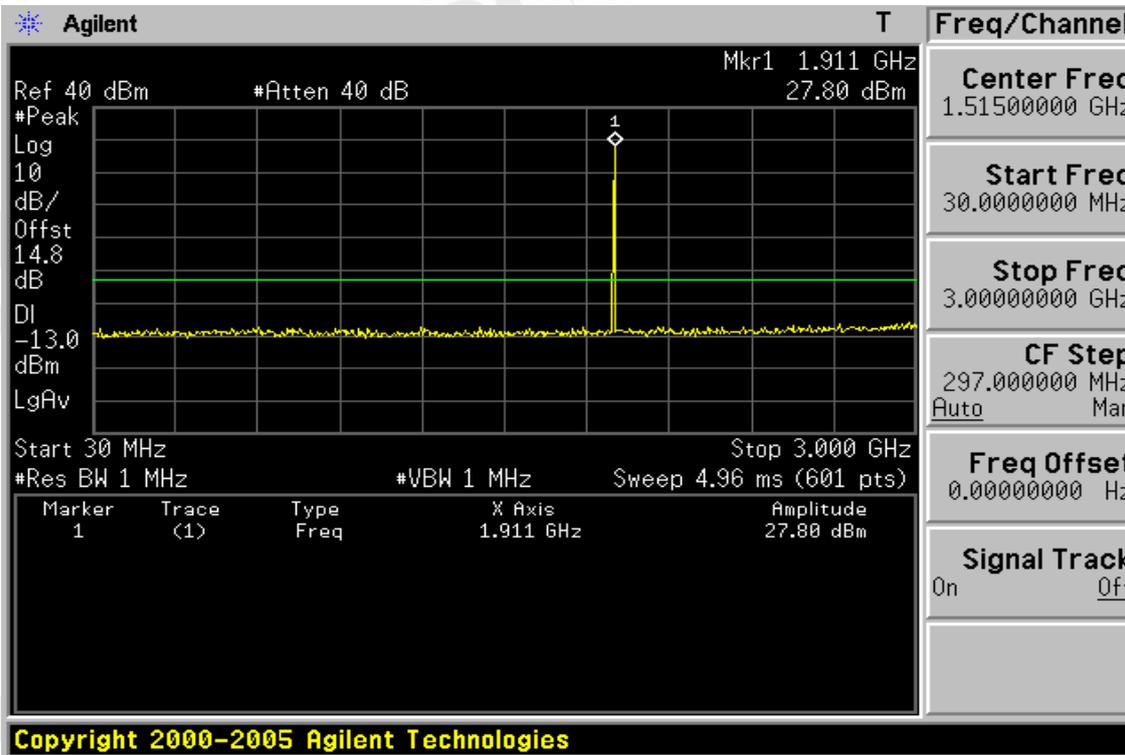
**Figure 9-27: Out of Band emission at antenna terminals – EDGE 1900 Channel Mid**



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Figure 9-28: Out of Band emission at antenna terminals – EDGE 1900 Channel Highest



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**Out of Band emission at antenna terminals – EDGE 1900**

Fundamental Frequency :1850.2 MHz Engineer :Jay  
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3700.40	H	---	-13.00	---
5550.60	H	---	-13.00	---
7400.80	H	---	-13.00	---
9251.00	H	---	-13.00	---
11101.20	H	---	-13.00	---
12951.40	H	---	-13.00	---
14280.00	S	-22.46	-13.00	9.46
14801.60	H	---	-13.00	---
16651.80	H	---	-13.00	---
18502.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
“---“ : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Jay  
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
14760.00	S	-21.92	-13.00	8.92
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Fundamental Frequency :1909.8 MHz Engineer :Jay  
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3819.60	H	---	-13.00	---
5729.40	H	---	-13.00	---
7639.20	H	---	-13.00	---
9549.00	H	---	-13.00	---
11458.80	H	---	-13.00	---
13368.60	H	-22.64	-13.00	9.64
15278.40	H	---	-13.00	---
17188.20	H	---	-13.00	---
19098.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Figure 9-29: Bad edge emission at antenna terminals – EDGE 1900 Channel Lowest

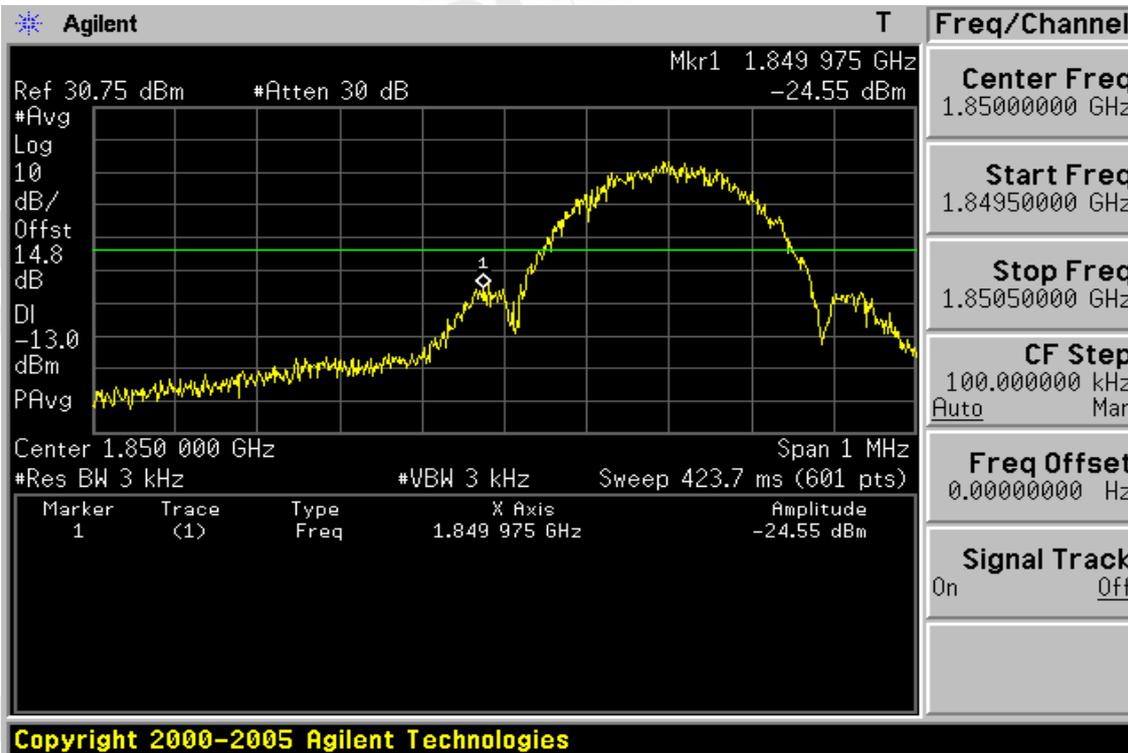
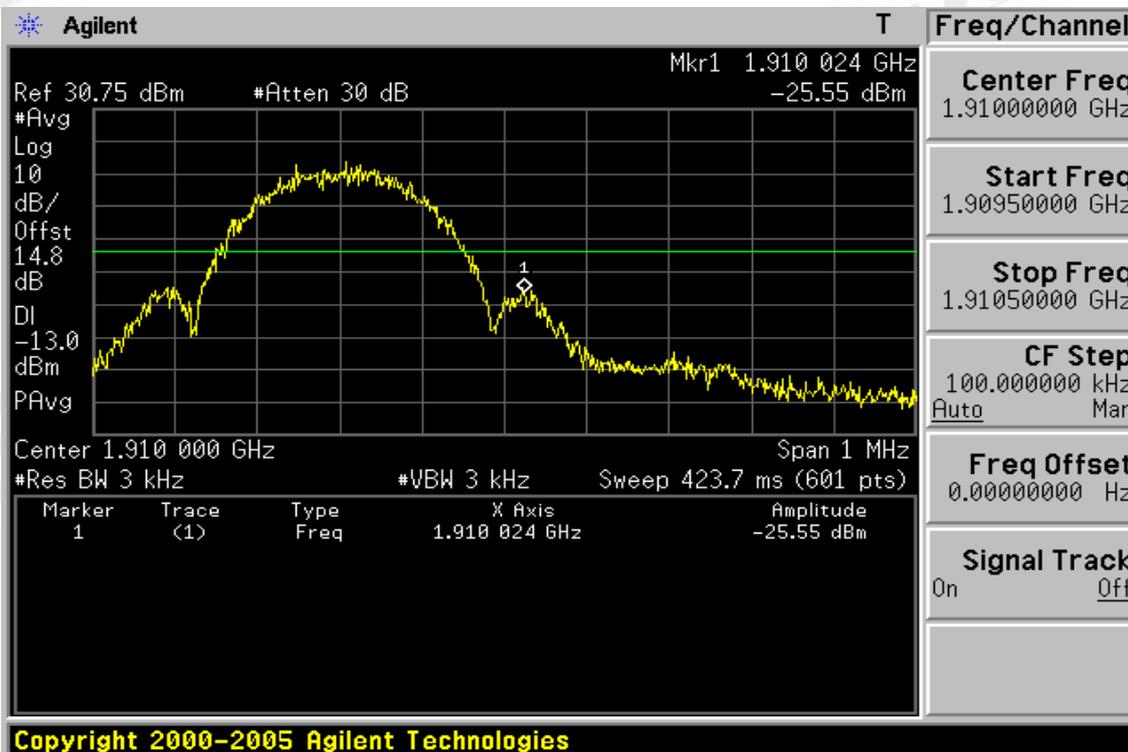


Figure 9-30: Band edge emission at antenna terminals – EDGE 1900 Channel Highest



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**Band edge emission at antenna terminals – EDGE 1900 Low & High**

Test Mode GSM 1900: Engineer :Jay

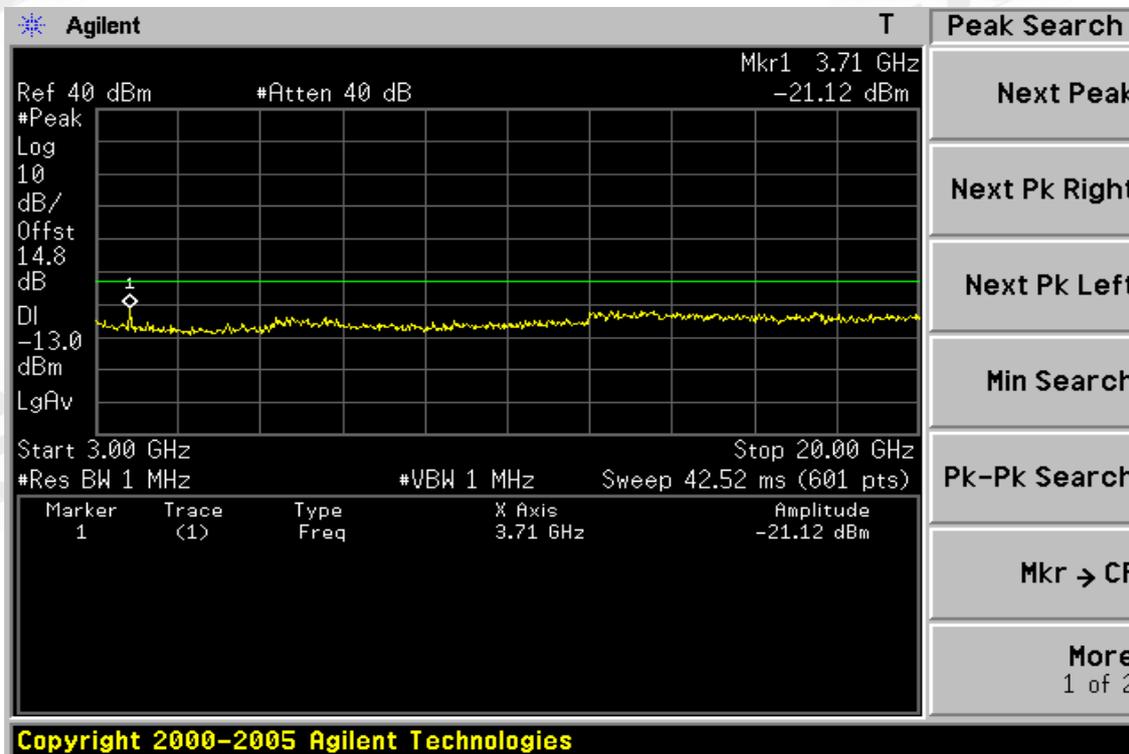
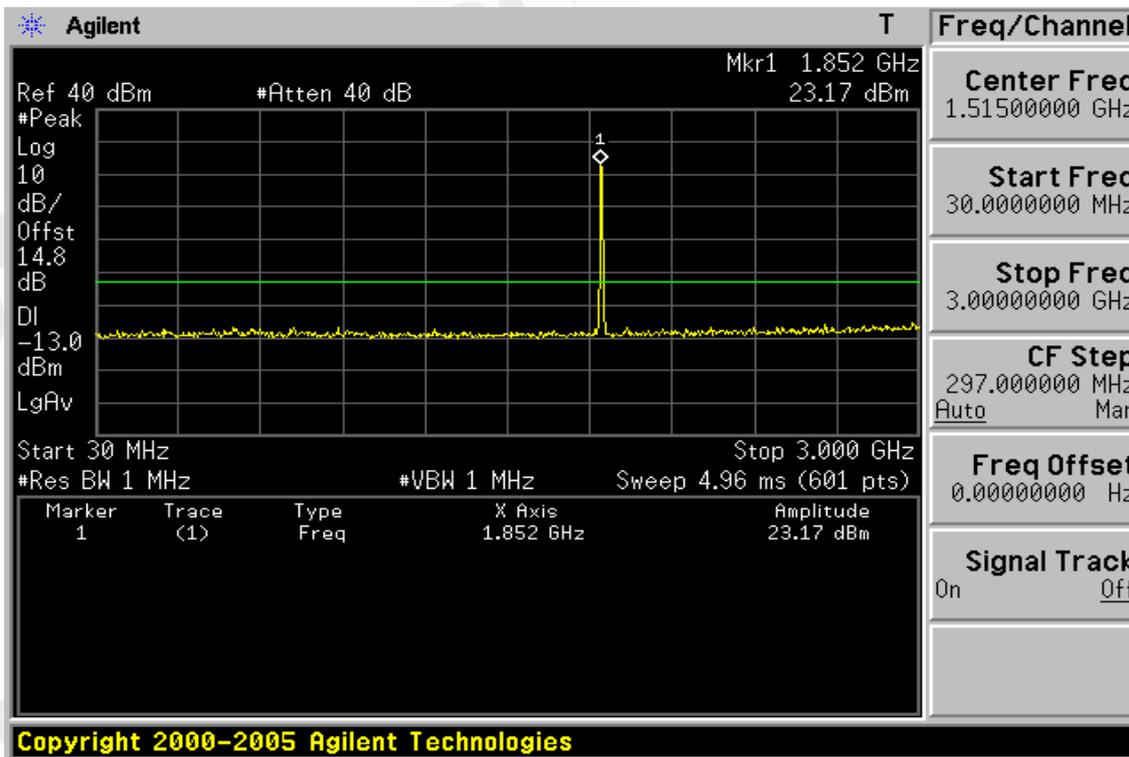
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.975	-24.55	-13.00	11.55
1910.024	-25.55	-13.00	12.55

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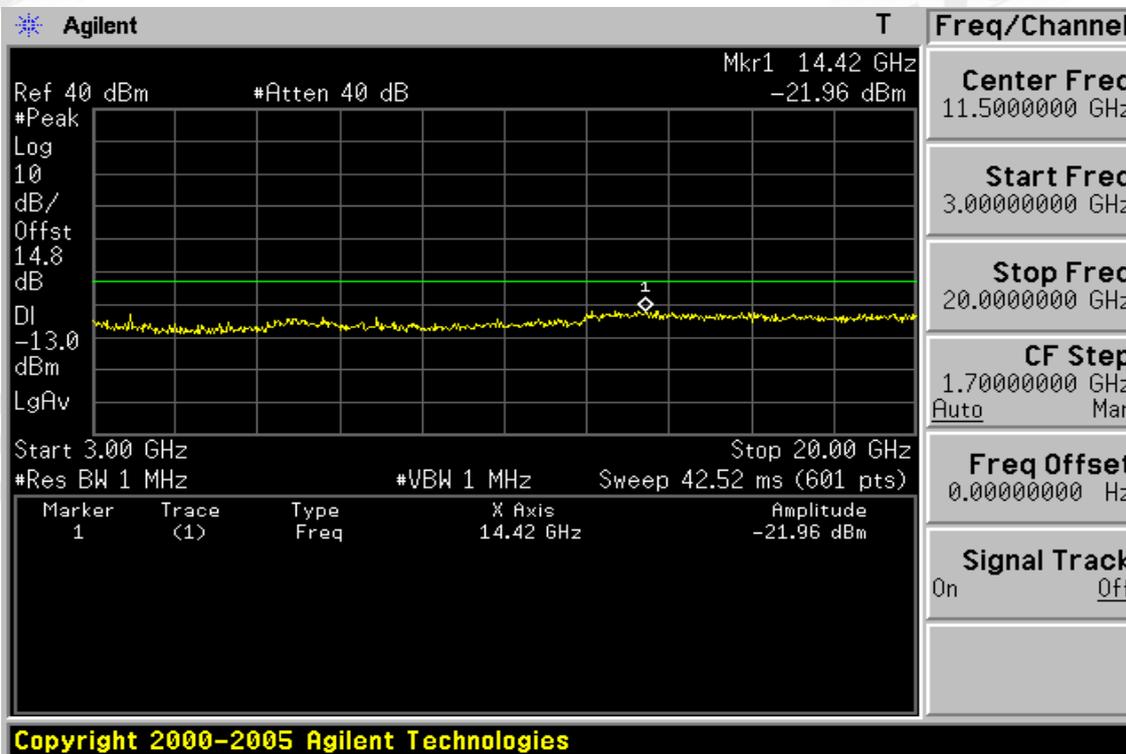
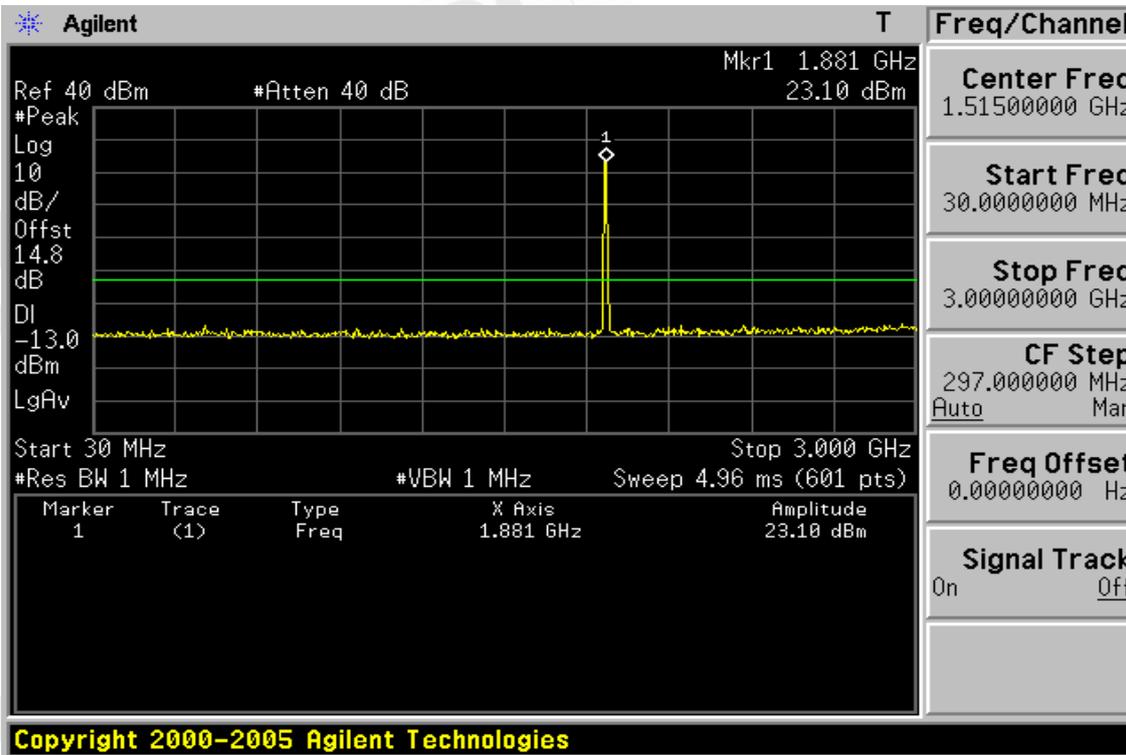
Figure 9-31: Out of Band emission at antenna terminals – WCDMA II Channel Lowest



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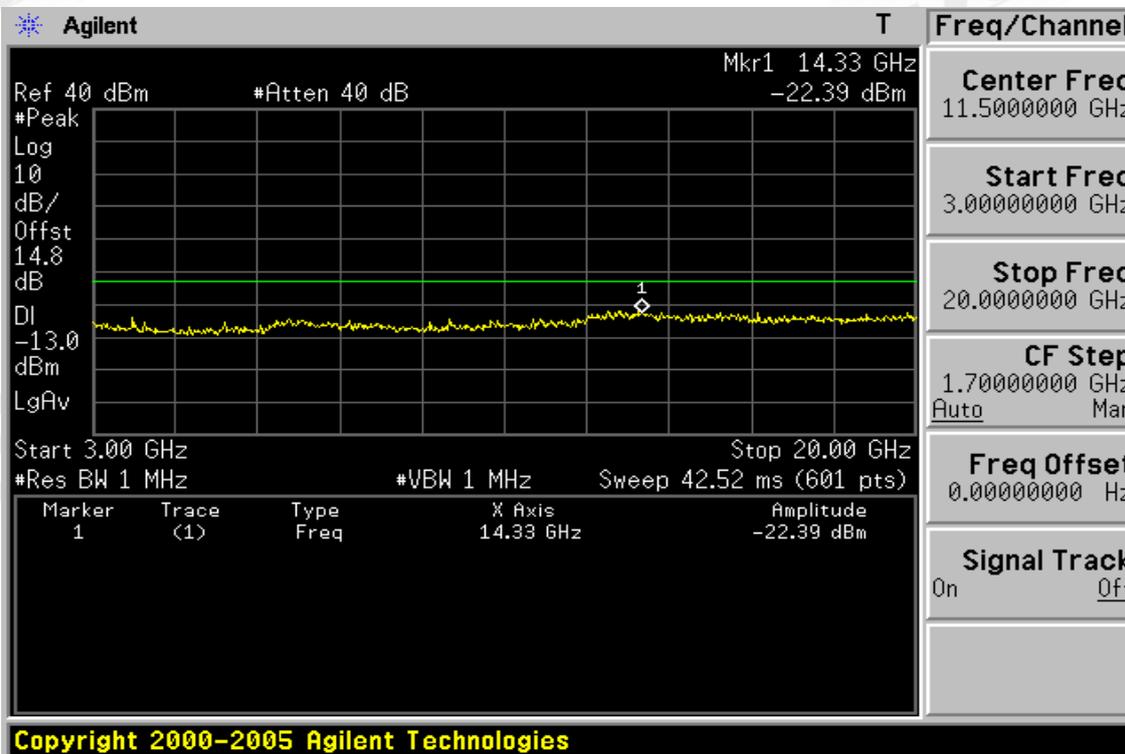
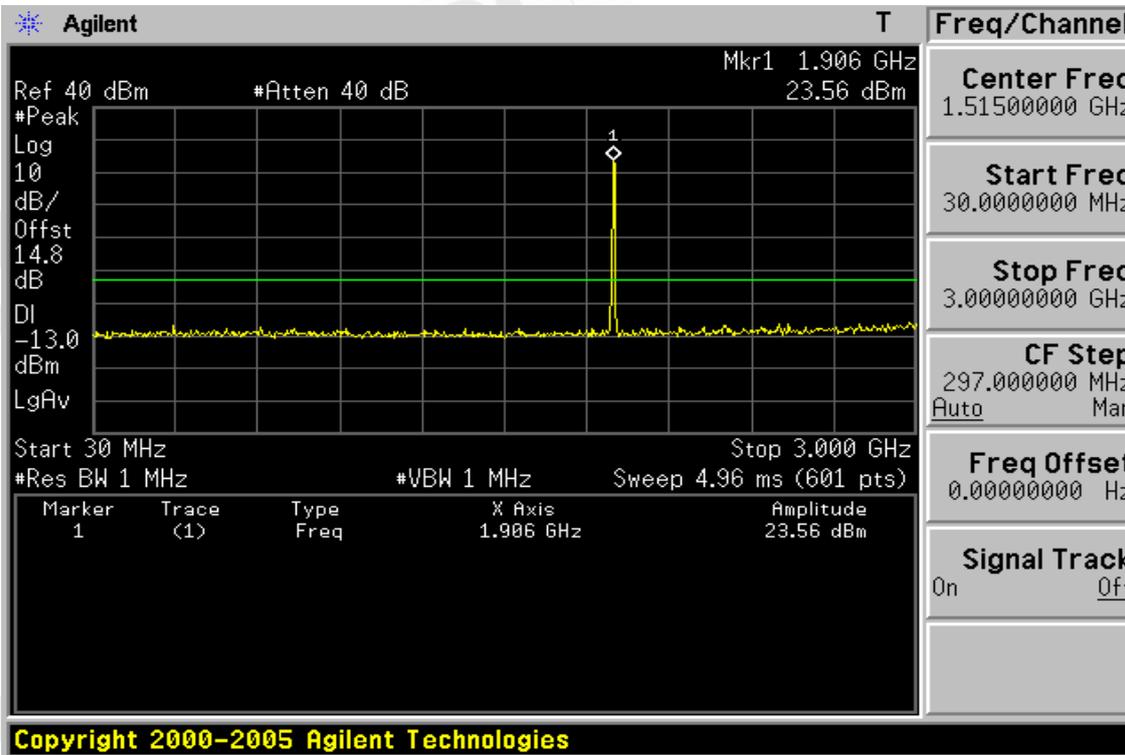
Figure 9-32: Out of Band emission at antenna terminals – WCDMA II Channel Mid



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Figure 9-33: Out of Band emission at antenna terminals – WCDMA II Channel Highest



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## Out of Band emission at antenna terminals – WCDMA II

Fundamental Frequency :1852.4 MHz Engineer :Jay  
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3704.80	H	---	-13.00	---
3710.00	S	-21.12	-13.00	8.12
5557.20	H	---	-13.00	---
7409.60	H	---	-13.00	---
9262.00	H	---	-13.00	---
11114.40	H	---	-13.00	---
12966.80	H	---	-13.00	---
14819.20	H	---	-13.00	---
16671.60	H	---	-13.00	---
18524.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
“---“ : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Jay  
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	S	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
14420.00	S	-21.96	-13.00	8.96
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Fundamental Frequency :1907.6MHz Engineer :Jay  
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3815.20	H	---	-13.00	---
5722.80	H	---	-13.00	---
7630.40	H	---	-13.00	---
9538.00	H	---	-13.00	---
11445.60	H	---	-13.00	---
13353.20	H	---	-13.00	---
14330.00	S	-22.39	-13.00	9.39
15260.80	H	---	-13.00	---
17168.40	H	---	-13.00	---
19076.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Figure 9-34: Band edge emission at antenna terminals – WCDMA II Channel Lowest

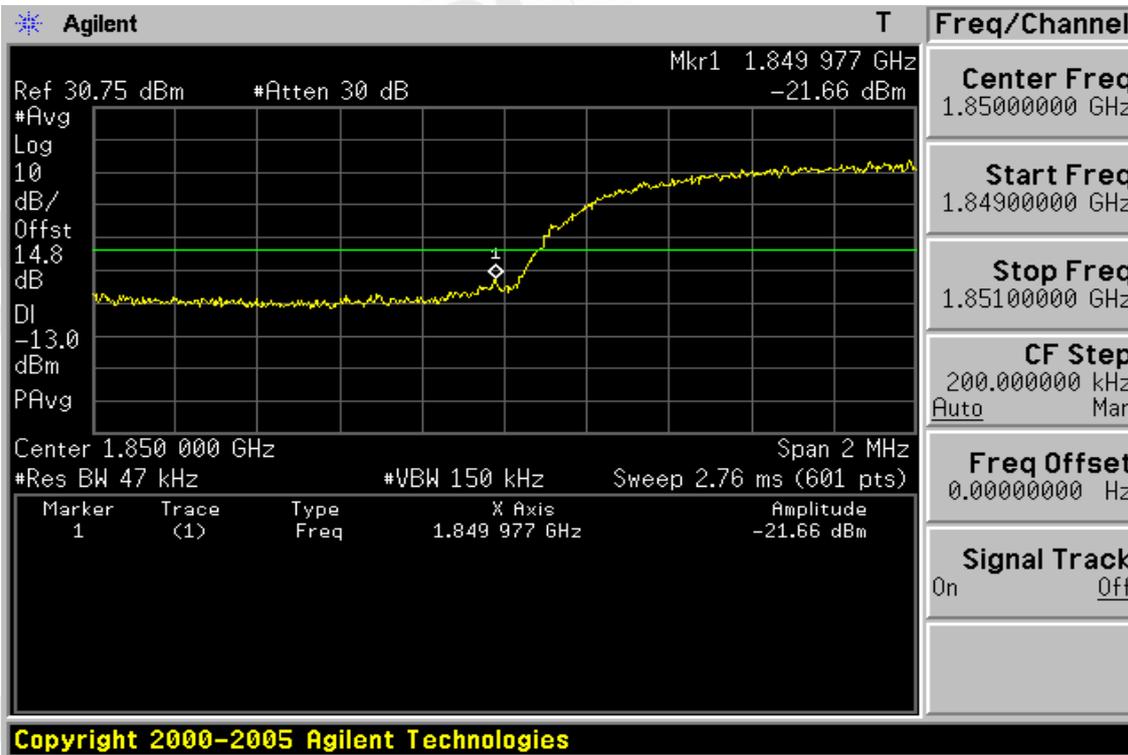


Figure 9-35: Band edge emission at antenna terminals – WCDMA II Channel Highest



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**Band edge emission at antenna terminals – WCDMA II Low & High**

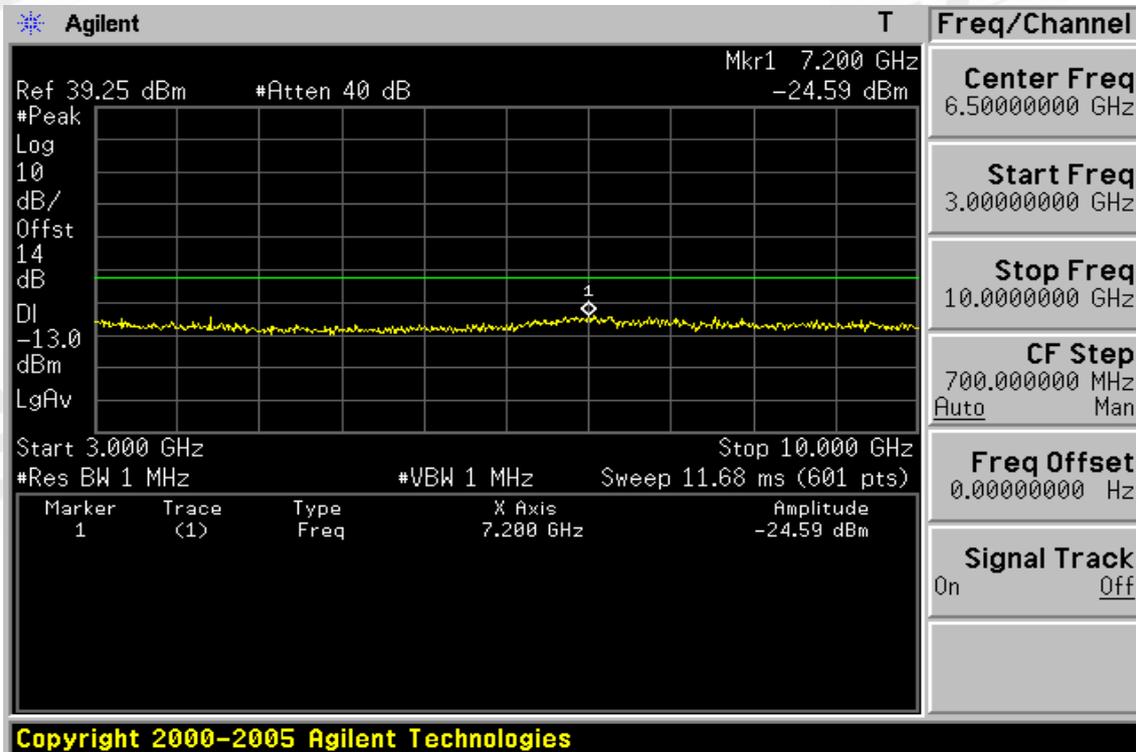
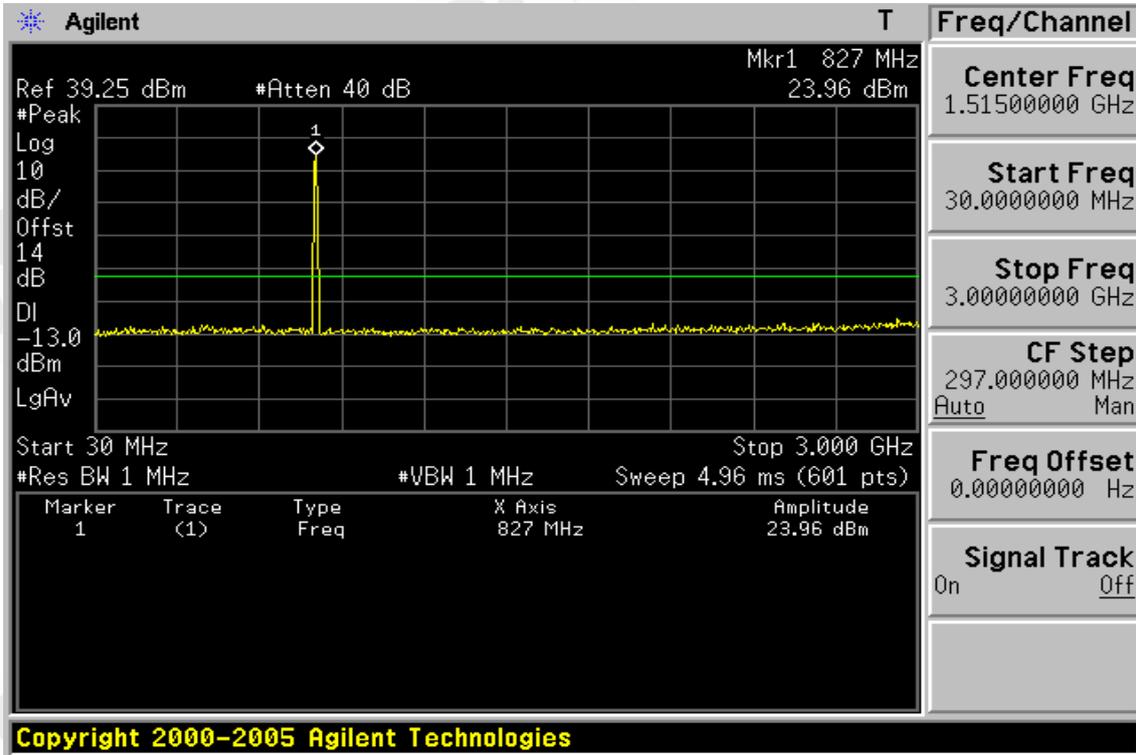
Test Mode                      WCDMA II                      Engineer                      :Jay

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.977	-22.71	-13.00	9.71
1910.060	-27.04	-13.00	14.04

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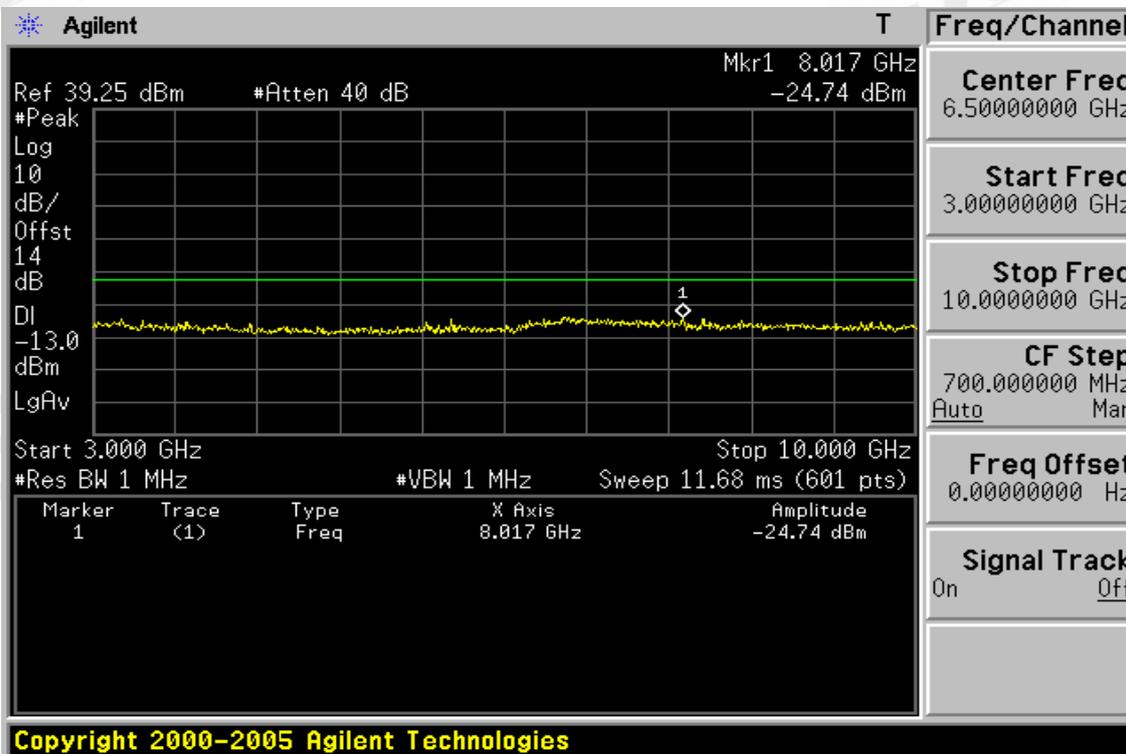
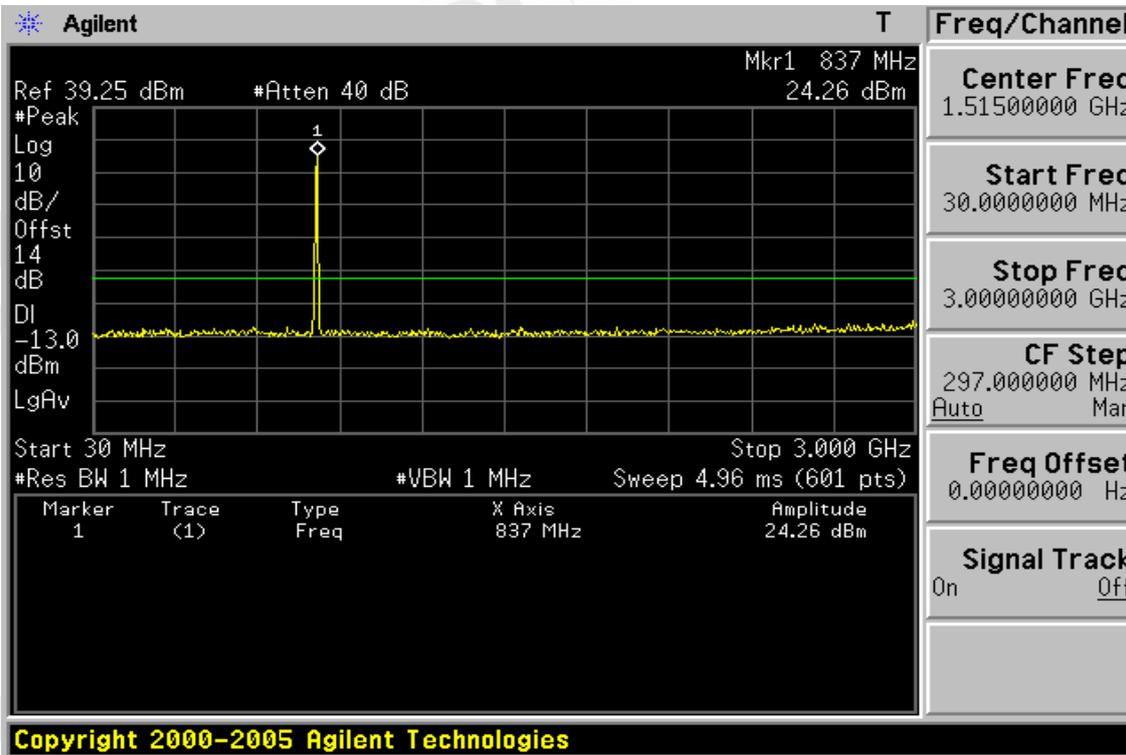
Figure 9-36: Out of Band emission at antenna terminals – WCDMA V Channel Lowest



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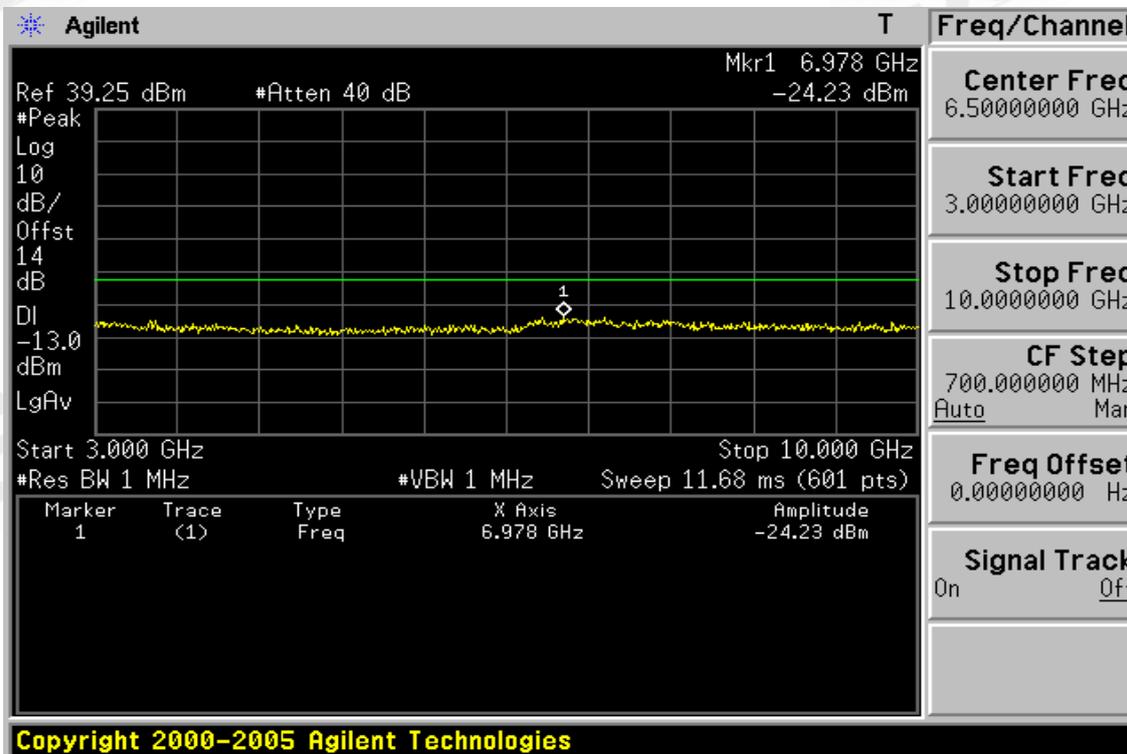
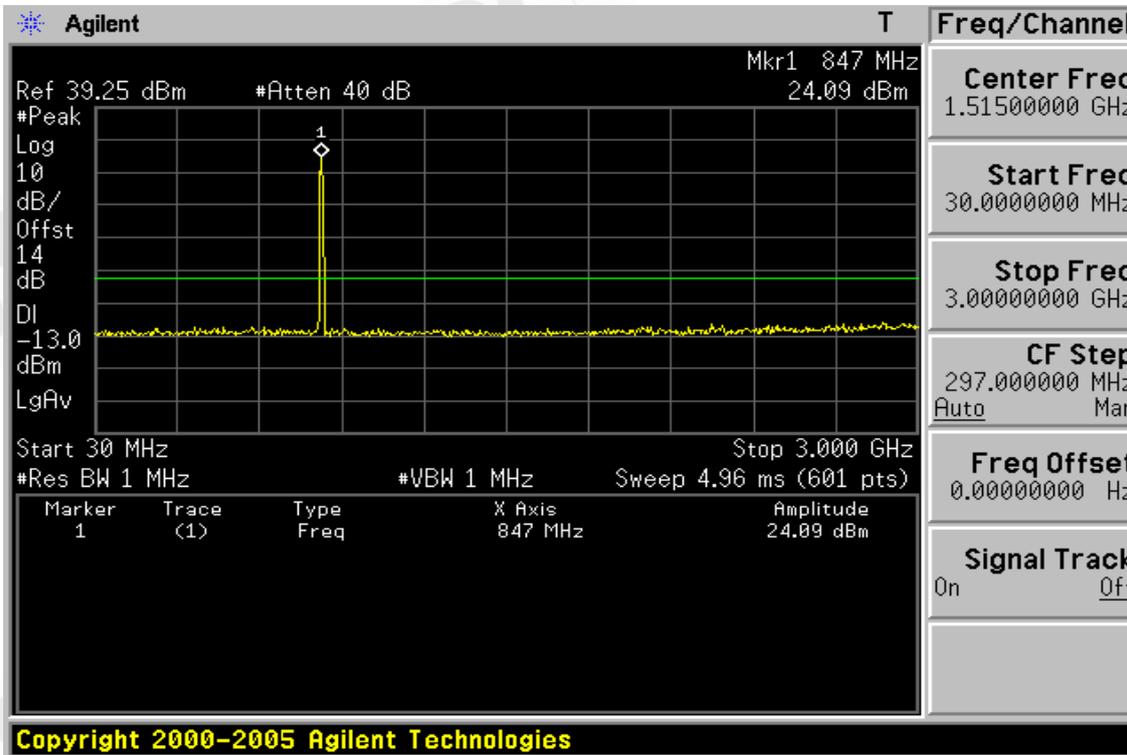
Figure 9-37: Out of Band emission at antenna terminals – WCDMA V Channel Mid



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**Figure 9-38: Out of Band emission at antenna terminals – WCDMA V Channel Highest**



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**Out of Band emission at antenna terminals – WCDMA V**

Fundamental Frequency :826.4 MHz Engineer :Jay  
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1652.80	H	---	-13.00	---
2479.20	H	---	-13.00	---
3305.60	H	---	-13.00	---
4132.00	H	---	-13.00	---
4958.40	H	---	-13.00	---
5784.80	H	---	-13.00	---
6611.20	H	---	-13.00	---
7200.00	S	-24.59	-13.00	11.59
7437.60	H	---	-13.00	---
8264.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
“---“ : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz Engineer :Jay  
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.20	H	---	-13.00	---
2509.80	H	---	-13.00	---
3346.40	H	---	-13.00	---
4183.00	H	---	-13.00	---
5019.60	H	---	-13.00	---
5856.20	H	---	-13.00	---
6692.80	H	---	-13.00	---
7529.40	H	---	-13.00	---
8017.00	S	-24.74	-13.00	11.74
8366.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Fundamental Frequency :846.6MHz Engineer :Jay  
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1693.20	H	---	-13.00	---
2539.80	H	---	-13.00	---
3386.40	H	---	-13.00	---
4233.00	H	---	-13.00	---
5079.60	H	---	-13.00	---
5926.20	H	---	-13.00	---
6772.80	H	---	-13.00	---
6978.00	S	-24.23	-13.00	11.23
7619.40	H	---	-13.00	---
8466.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Figure 9-39: Bad edge emission at antenna terminals – WCDMA V Channel Lowest

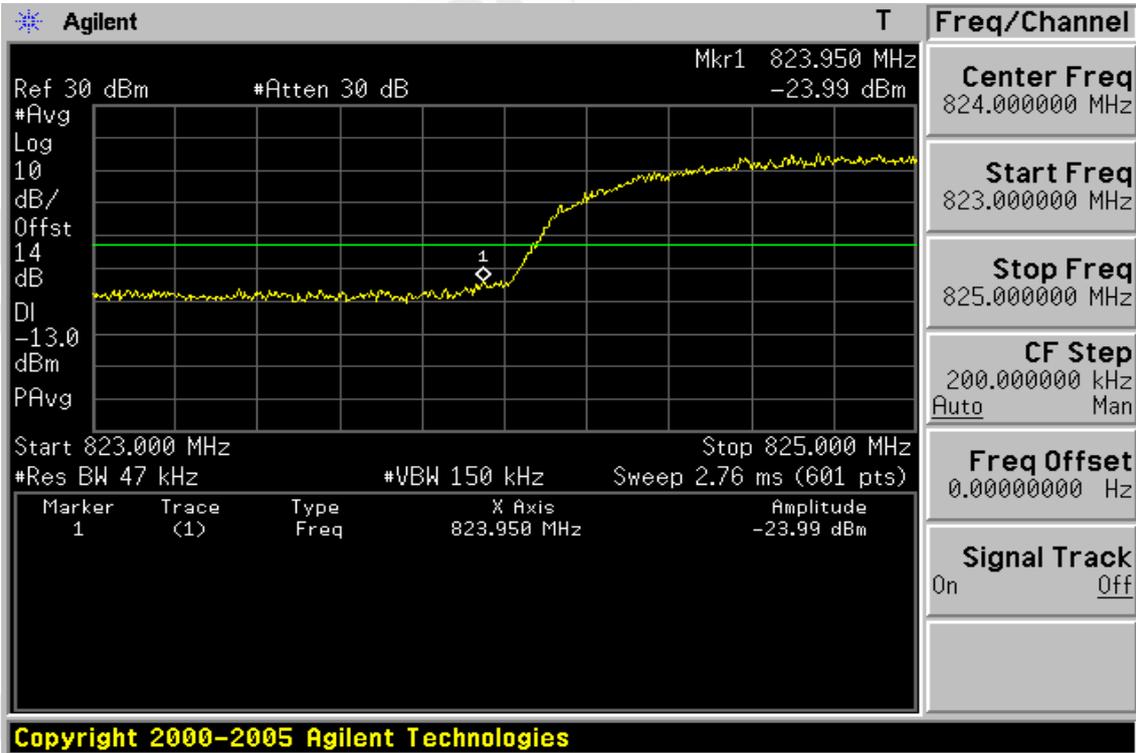
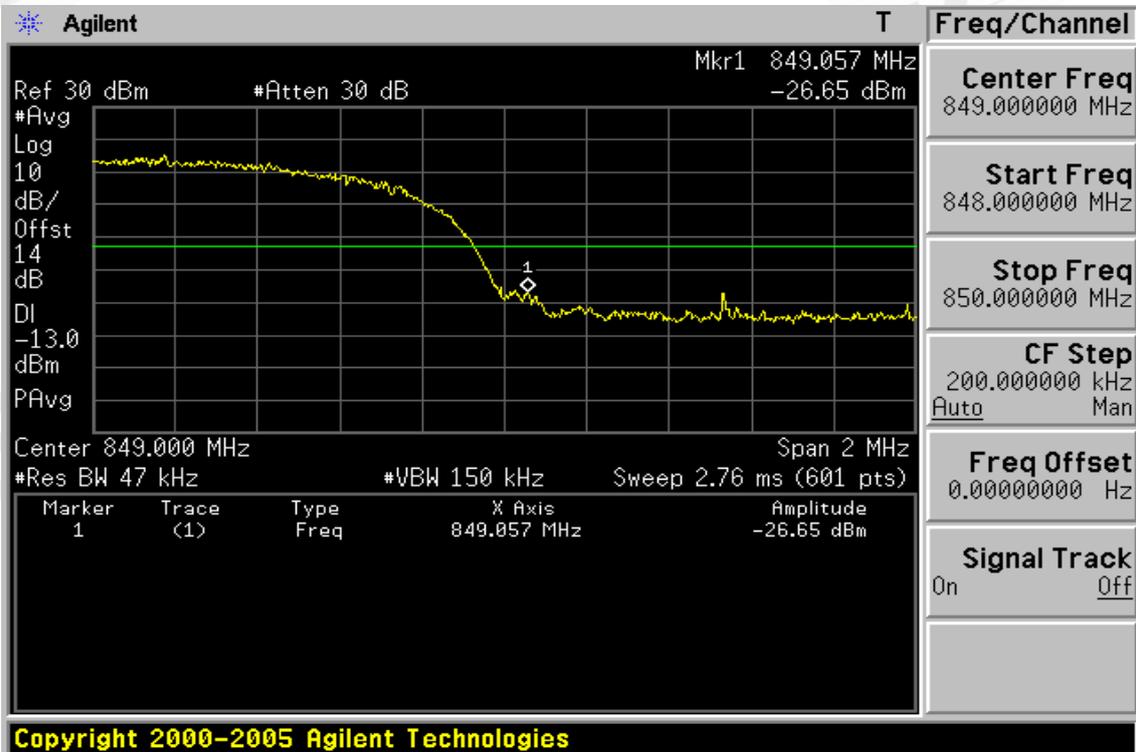


Figure 9-40: Band edge emission at antenna terminals – WCDMA V Channel Highest



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**Band edge emission at antenna terminals – WCDMA V Low & High**

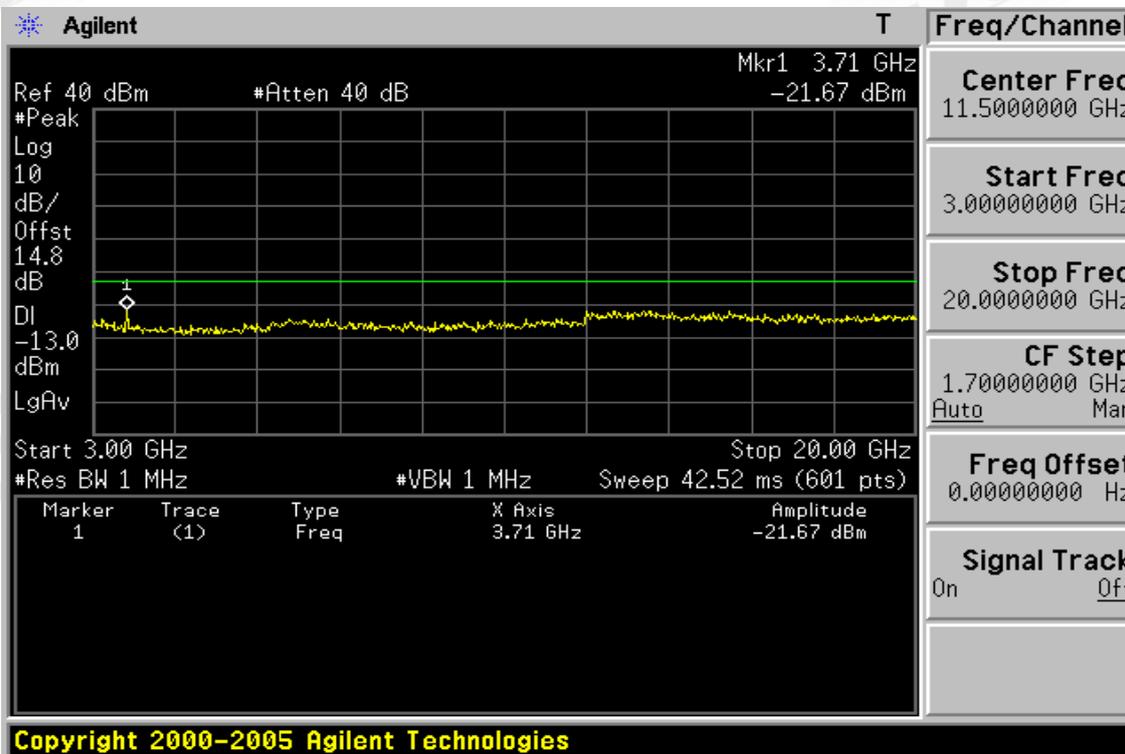
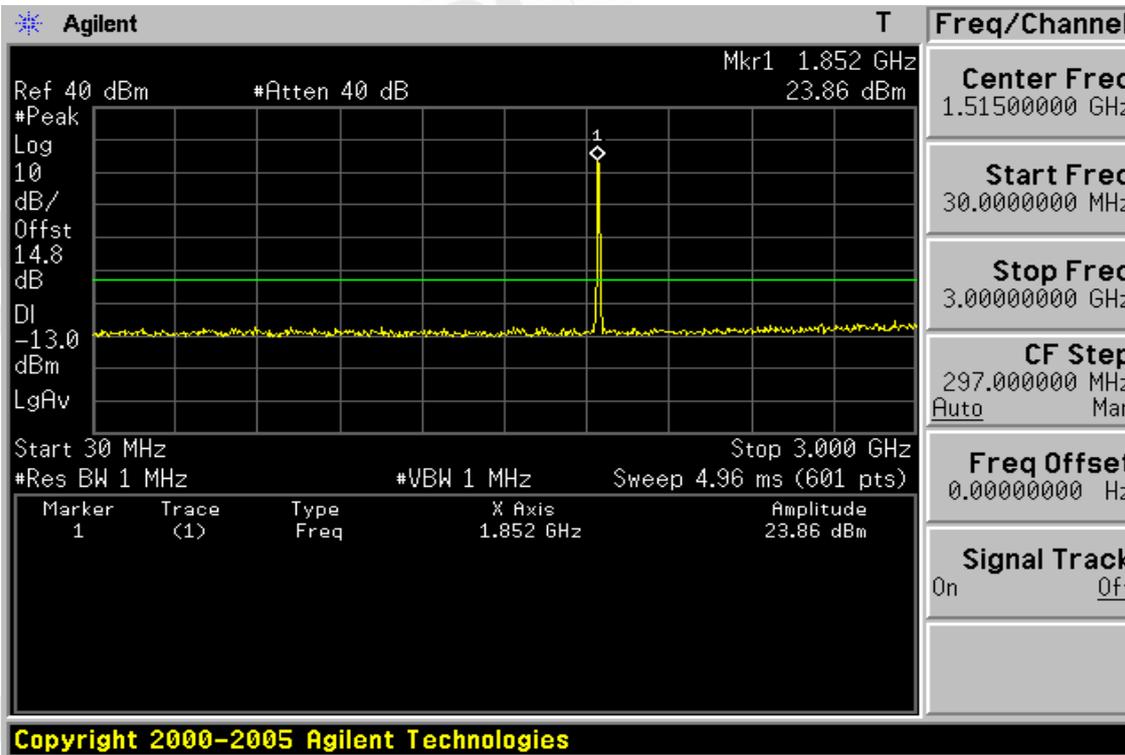
Test Mode                      WCDMA V                      Engineer                      :Jay

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
823.950	-23.99	-13.00	10.99
849.057	-26.65	-13.00	13.65

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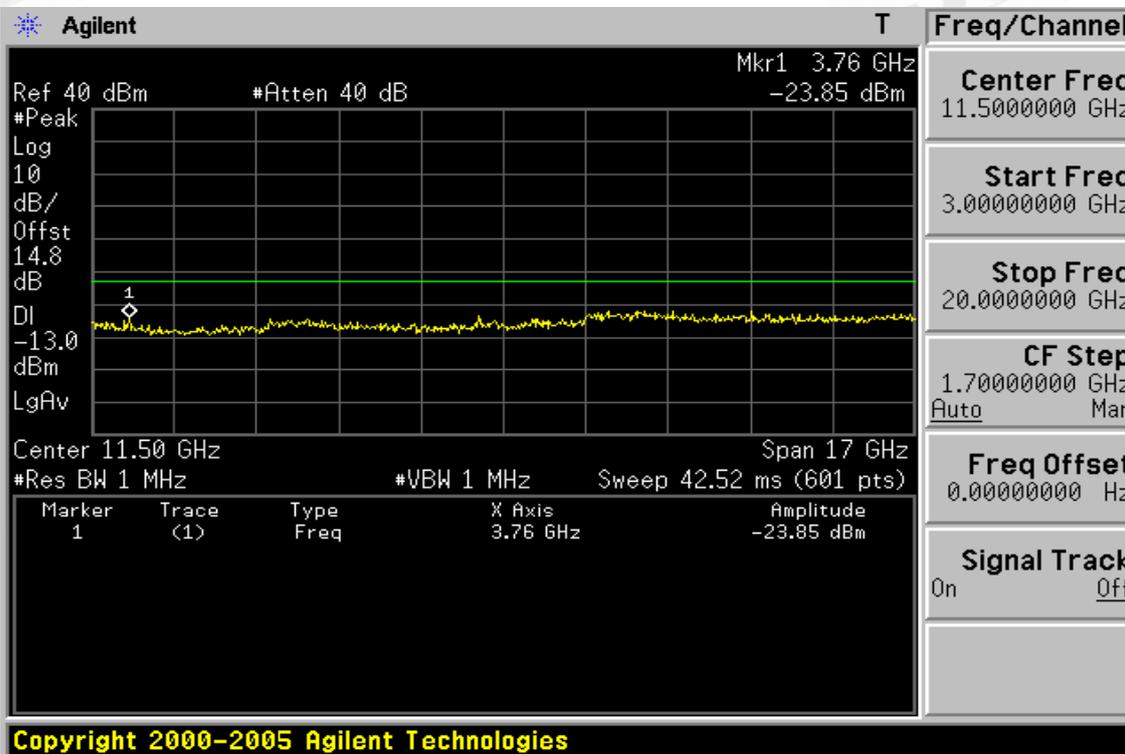
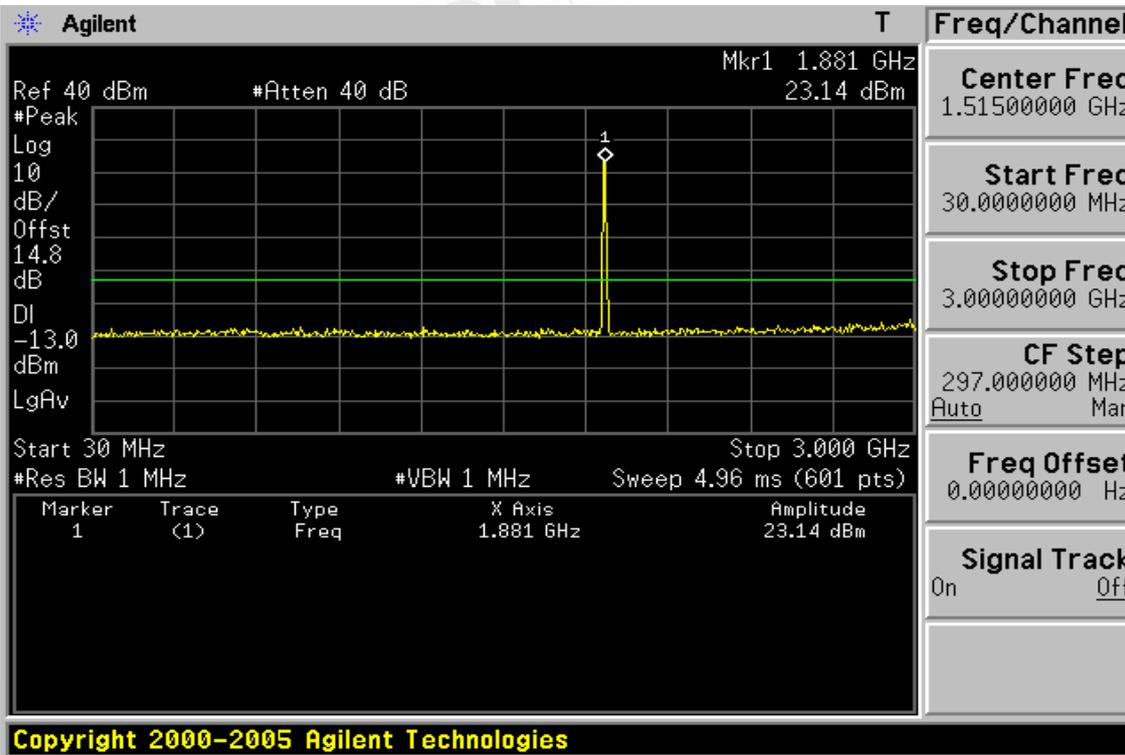
Figure 9-41: Out of Band emission at antenna terminals – HSDPA II Channel Lowest



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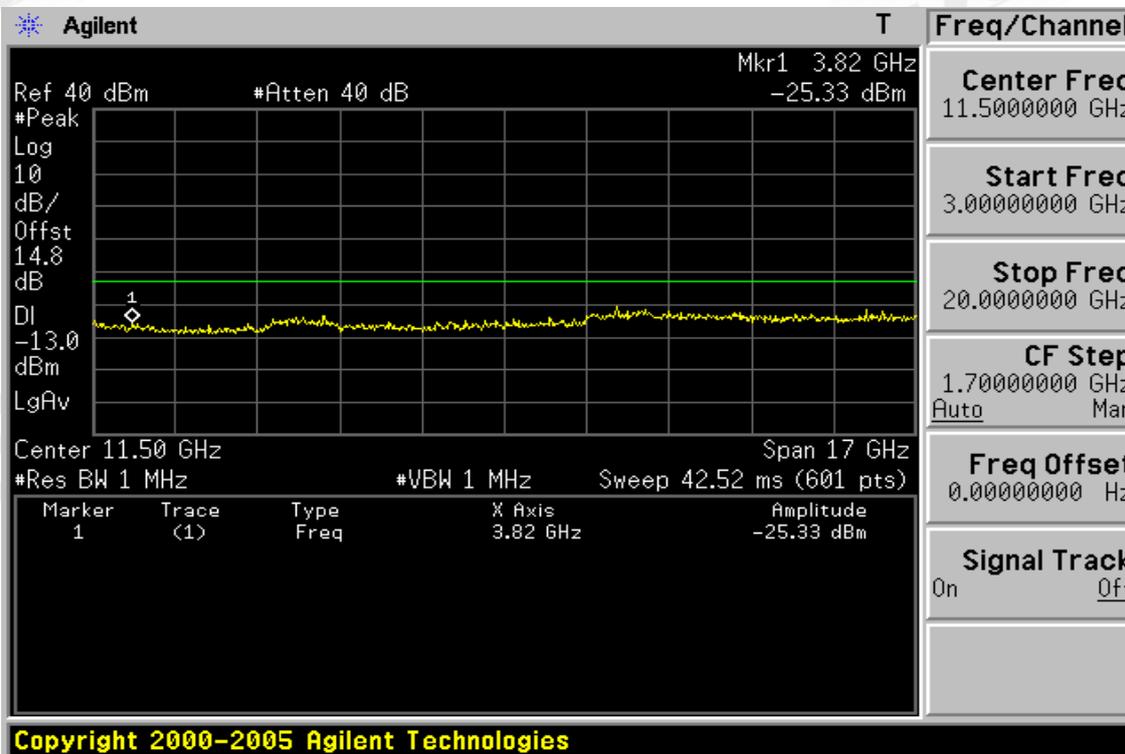
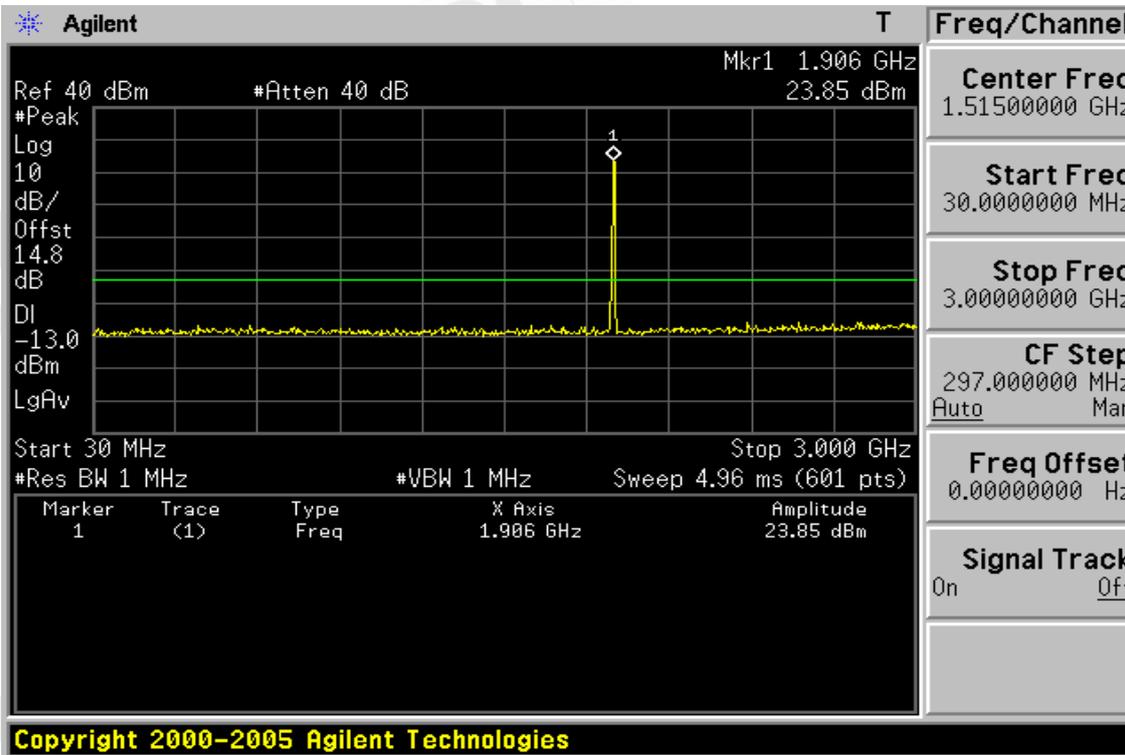
Figure 9-42: Out of Band emission at antenna terminals – HSDPA II Channel Mid



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Figure 9-43: Out of Band emission at antenna terminals – HSDPA II Channel Highest



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**Out of Band emission at antenna terminals – HSDPA II**

Fundamental Frequency :1852.4 MHz Engineer :Jay  
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3704.80	H	---	-13.00	---
3710.00	S	-21.67	-13.00	8.67
5557.20	H	---	-13.00	---
7409.60	H	---	-13.00	---
9262.00	H	---	-13.00	---
11114.40	H	---	-13.00	---
12966.80	H	---	-13.00	---
14819.20	H	---	-13.00	---
16671.60	H	---	-13.00	---
18524.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
“---“ : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Jay  
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	S	-23.85	-13.00	10.85
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Fundamental Frequency :1907.6MHz Engineer :Jay  
Operation Mode :TX High

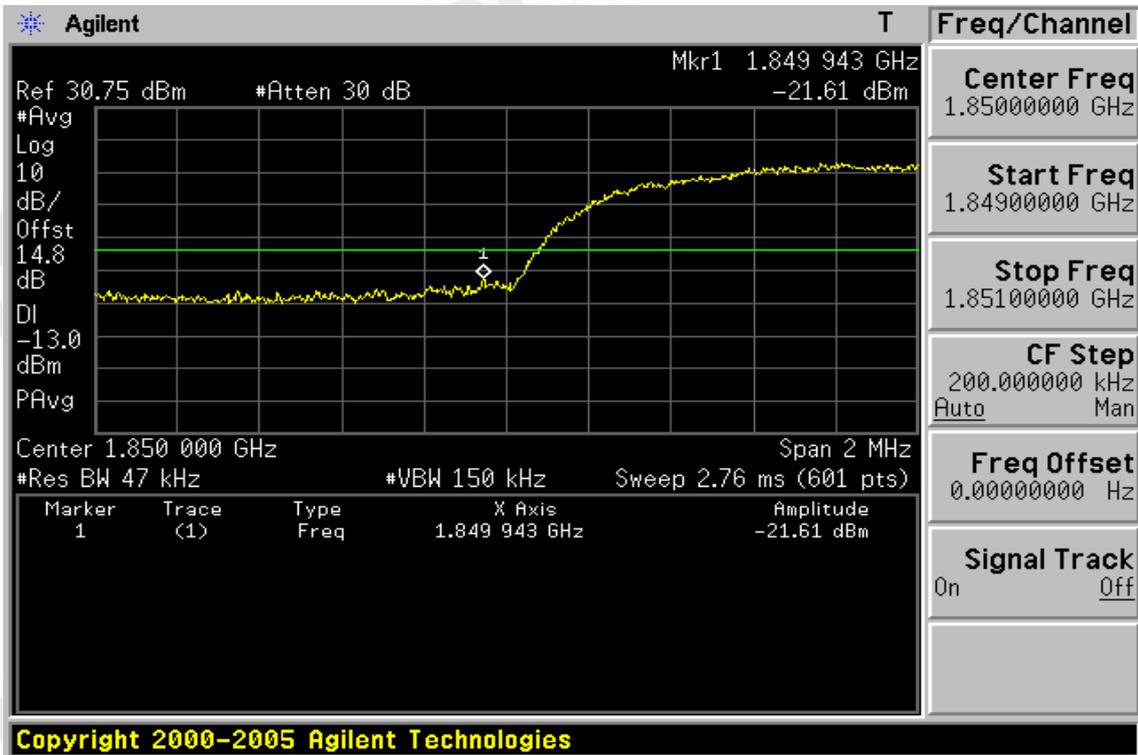
Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3815.20	H	---	-13.00	---
3820.00	S	-25.33	-13.00	12.33
5722.80	H	---	-13.00	---
7630.40	H	---	-13.00	---
9538.00	H	---	-13.00	---
11445.60	H	---	-13.00	---
13353.20	H	---	-13.00	---
15260.80	H	---	-13.00	---
17168.40	H	---	-13.00	---
19076.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

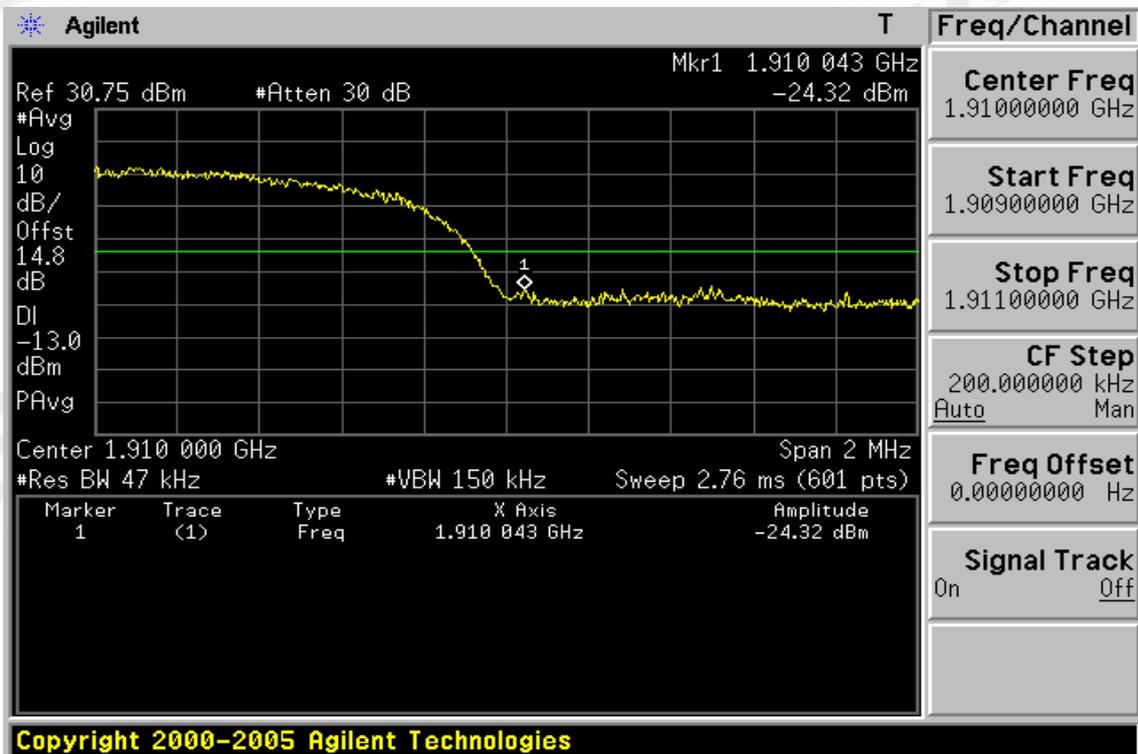
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**Figure 9-44: Band edge emission at antenna terminals – HSDPA II Channel Lowest**



**Figure 9-45: Band edge emission at antenna terminals – HSDPA II Channel Highest**



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**Band edge emission at antenna terminals – HSDPA II Low & High**

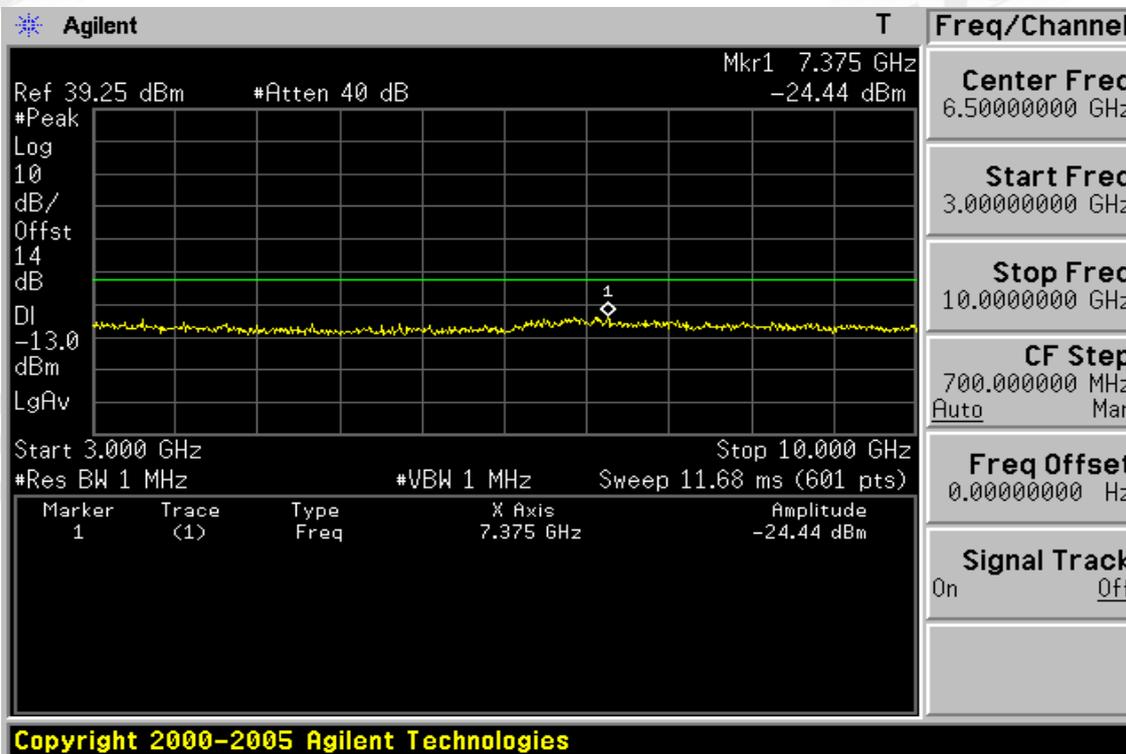
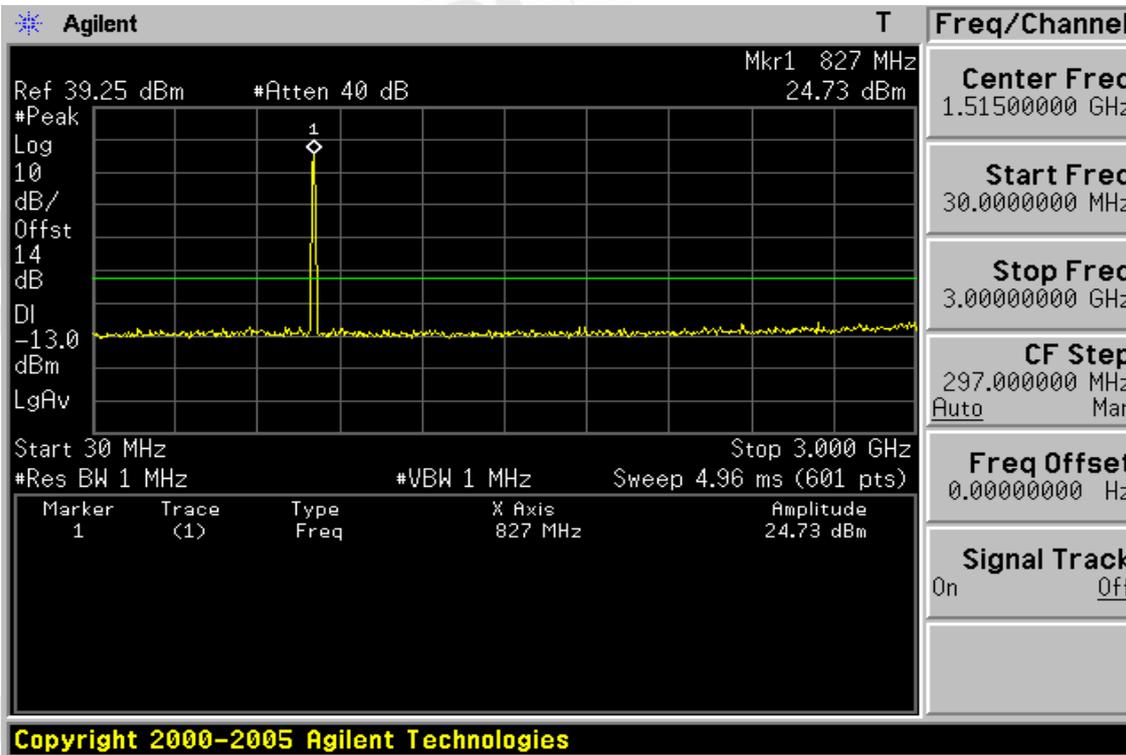
Test Mode HSDPA II Engineer :Jay

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.943	-21.61	-13.00	8.61
1910.043	-24.32	-13.00	11.32

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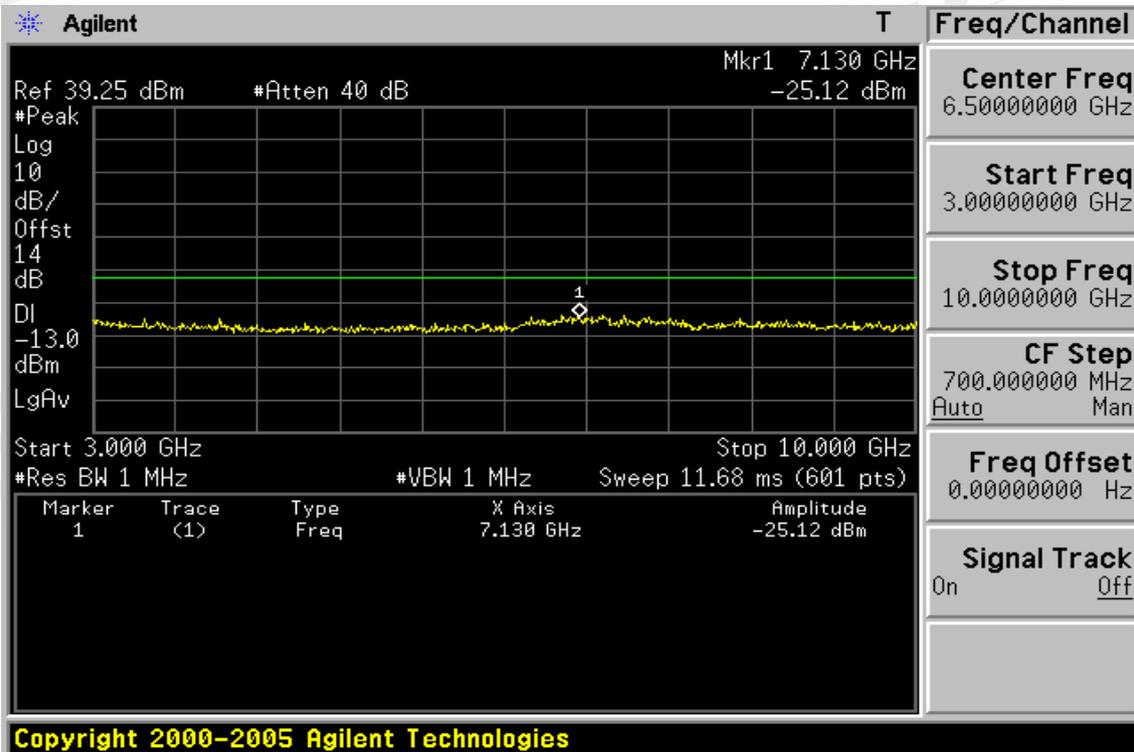
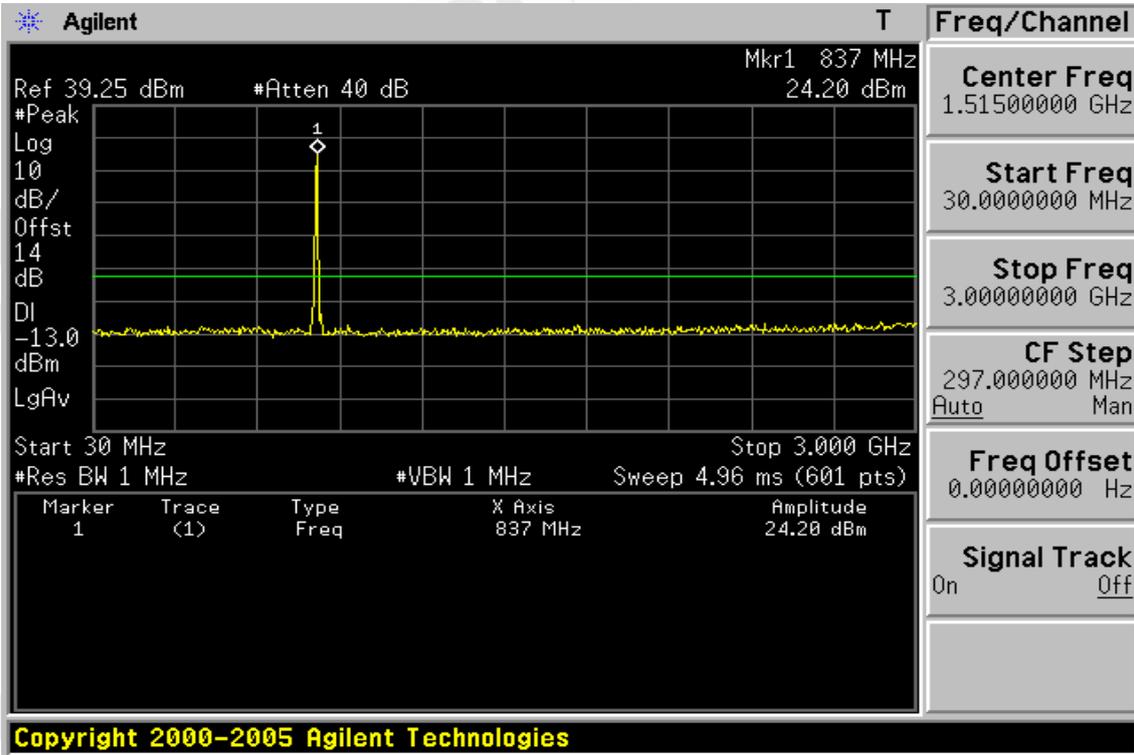
**Figure 9-46: Out of Band emission at antenna terminals – HSDPA V Channel Lowest**



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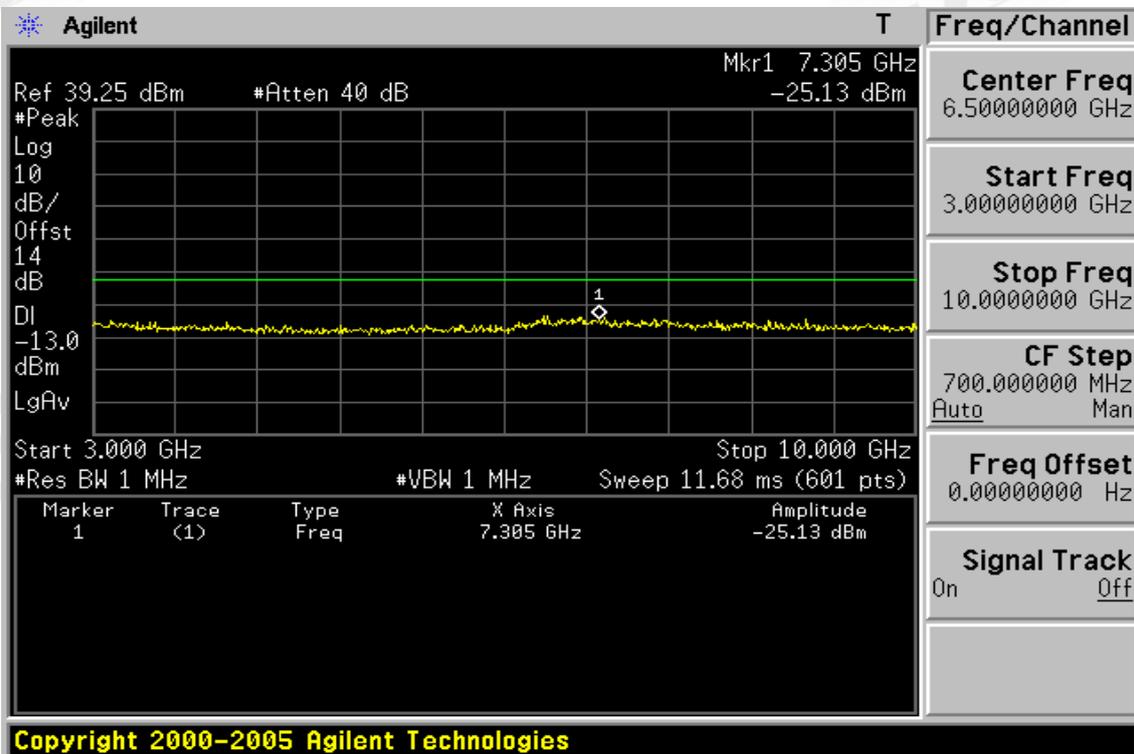
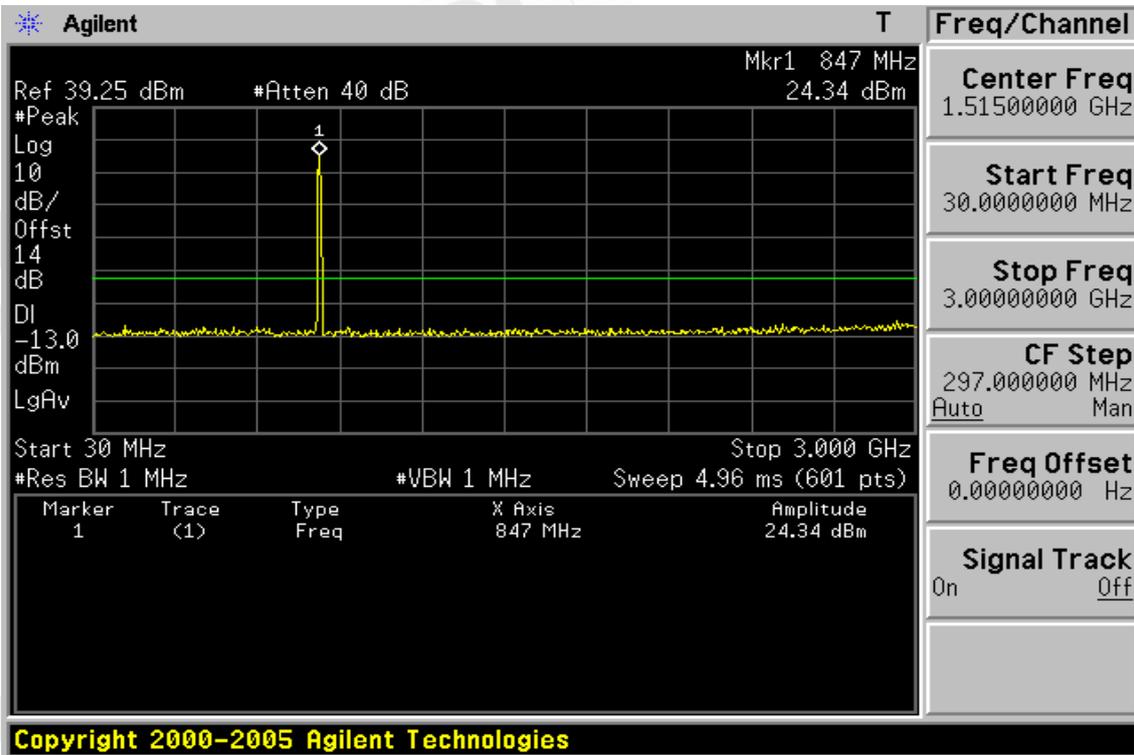
**Figure 9-47: Out of Band emission at antenna terminals – HSDPA V Channel Mid**



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**Figure 9-48: Out of Band emission at antenna terminals – HSDPA V Channel Highest**



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**Out of Band emission at antenna terminals – HSDPA V**

Fundamental Frequency :826.4 MHz Engineer :Jay  
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1652.80	H	---	-13.00	---
2479.20	H	---	-13.00	---
3305.60	H	---	-13.00	---
4132.00	H	---	-13.00	---
4958.40	H	---	-13.00	---
5784.80	H	---	-13.00	---
6611.20	H	---	-13.00	---
7375.00	S	-24.44	-13.00	11.44
7437.60	H	---	-13.00	---
8264.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
“---“ : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz Engineer :Jay  
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.20	H	---	-13.00	---
2509.80	H	---	-13.00	---
3346.40	H	---	-13.00	---
4183.00	H	---	-13.00	---
5019.60	H	---	-13.00	---
5856.20	H	---	-13.00	---
6692.80	H	---	-13.00	---
7130.00	S	-25.12	-13.00	12.12
7529.40	H	---	-13.00	---
8366.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Fundamental Frequency :846.6MHz Engineer :Jay  
Operation Mode :TX High

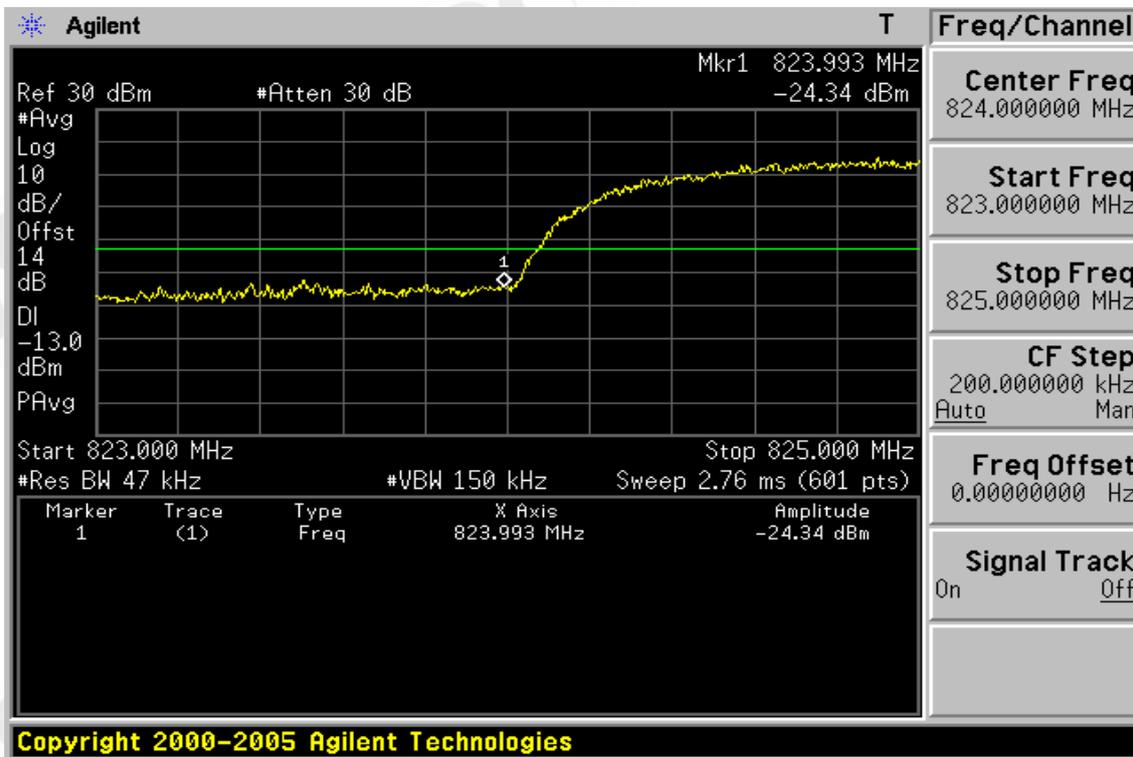
Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1693.20	H	---	-13.00	---
2539.80	H	---	-13.00	---
3386.40	H	---	-13.00	---
4233.00	H	---	-13.00	---
5079.60	H	---	-13.00	---
5926.20	H	---	-13.00	---
6772.80	H	---	-13.00	---
7305.00	S	-25.13	-13.00	12.13
7619.40	H	---	-13.00	---
8466.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

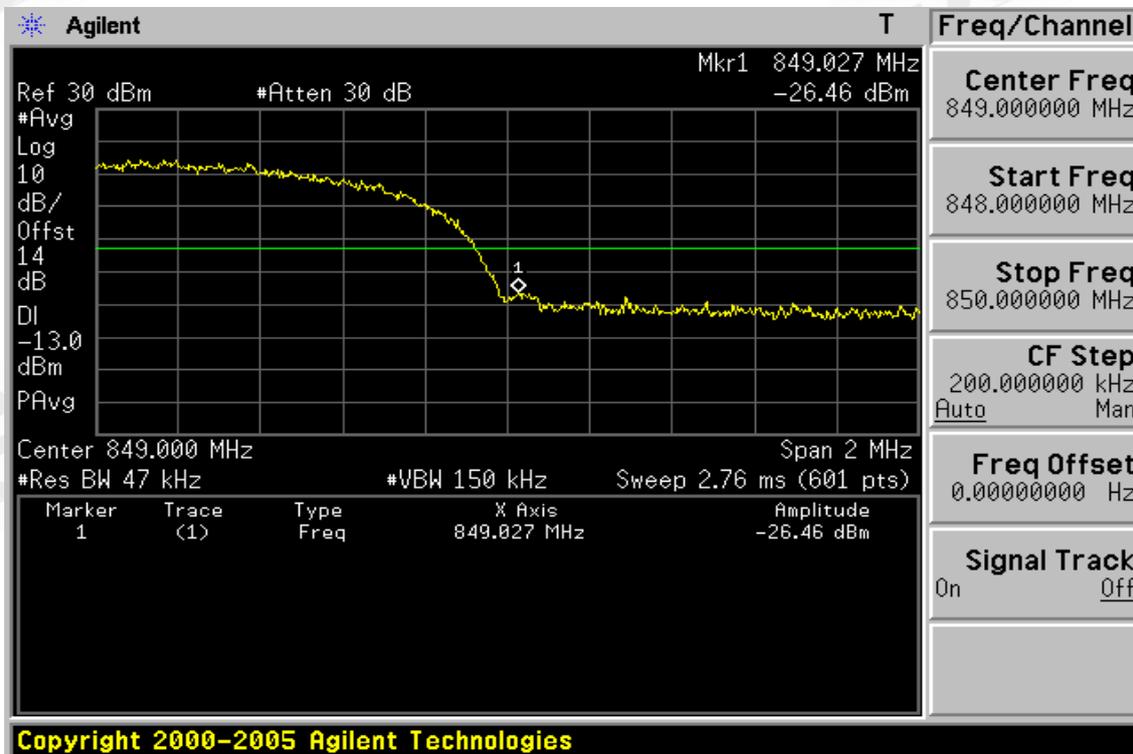
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**Figure 9-49: Band edge emission at antenna terminals – HSDPA V Channel Lowest**



**Figure 9-50: Band edge emission at antenna terminals – HSDPA V Channel Highest**



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**Band edge emission at antenna terminals – HSDPA V Low & High**

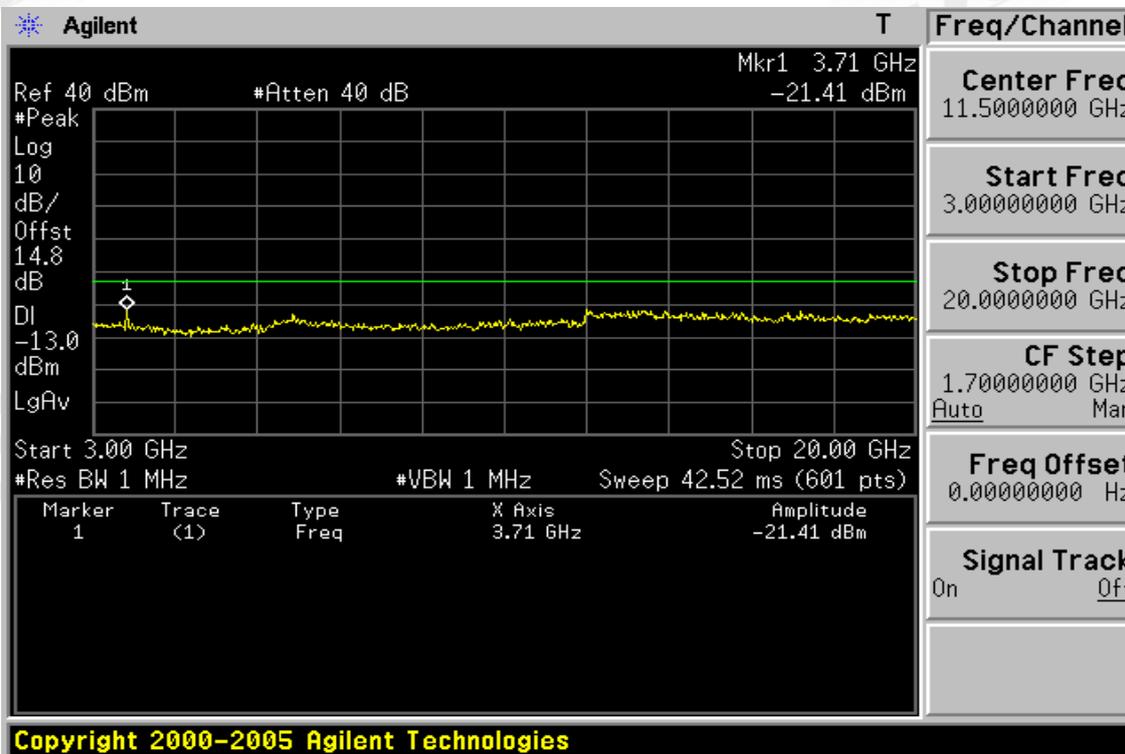
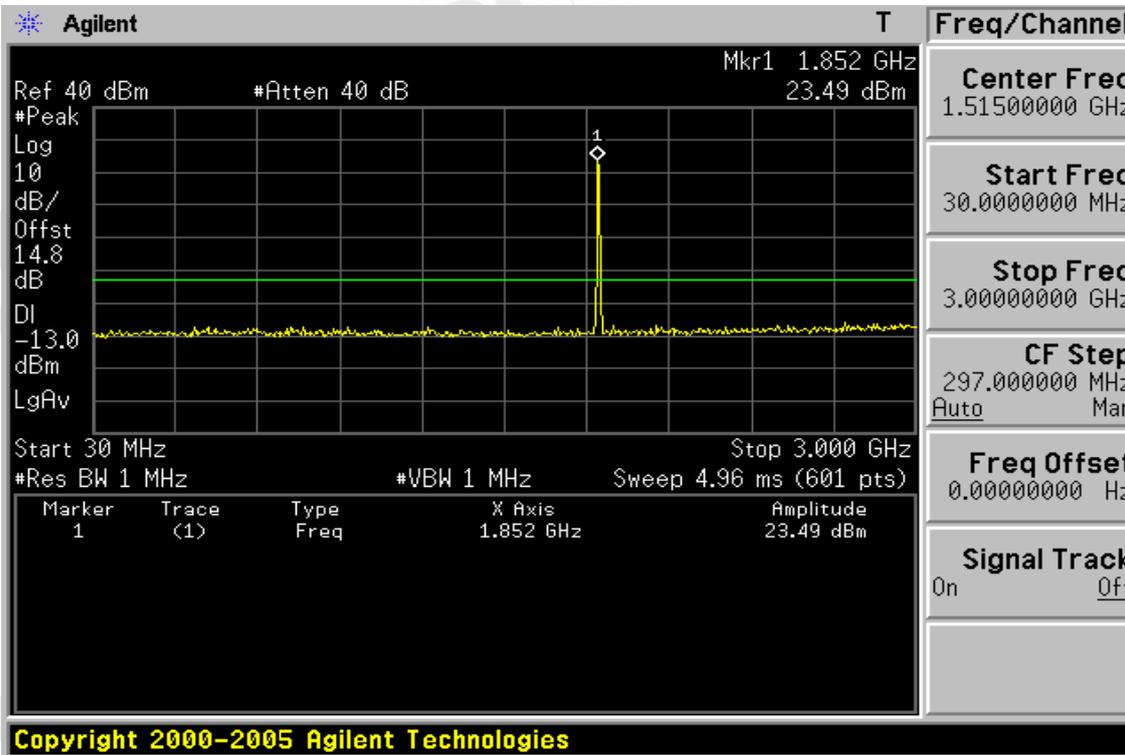
Test Mode HSDPA V Engineer :Jay

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
823.993	-24.34	-13.00	11.34
849.027	-26.46	-13.00	13.46

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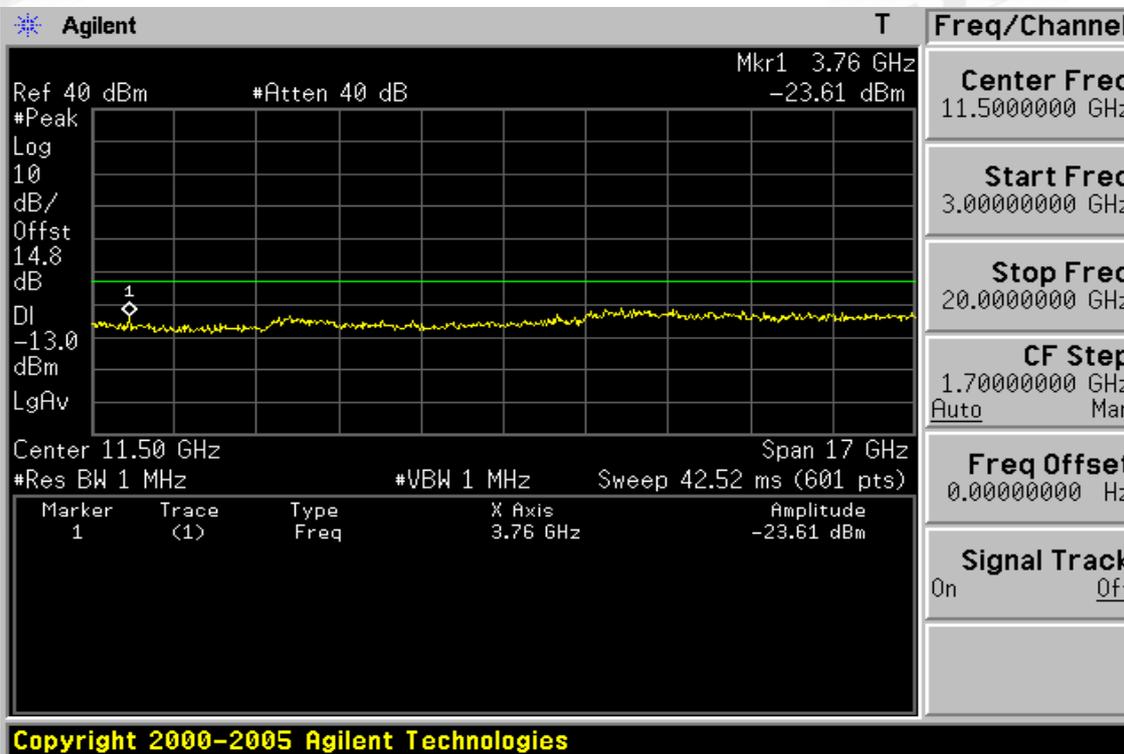
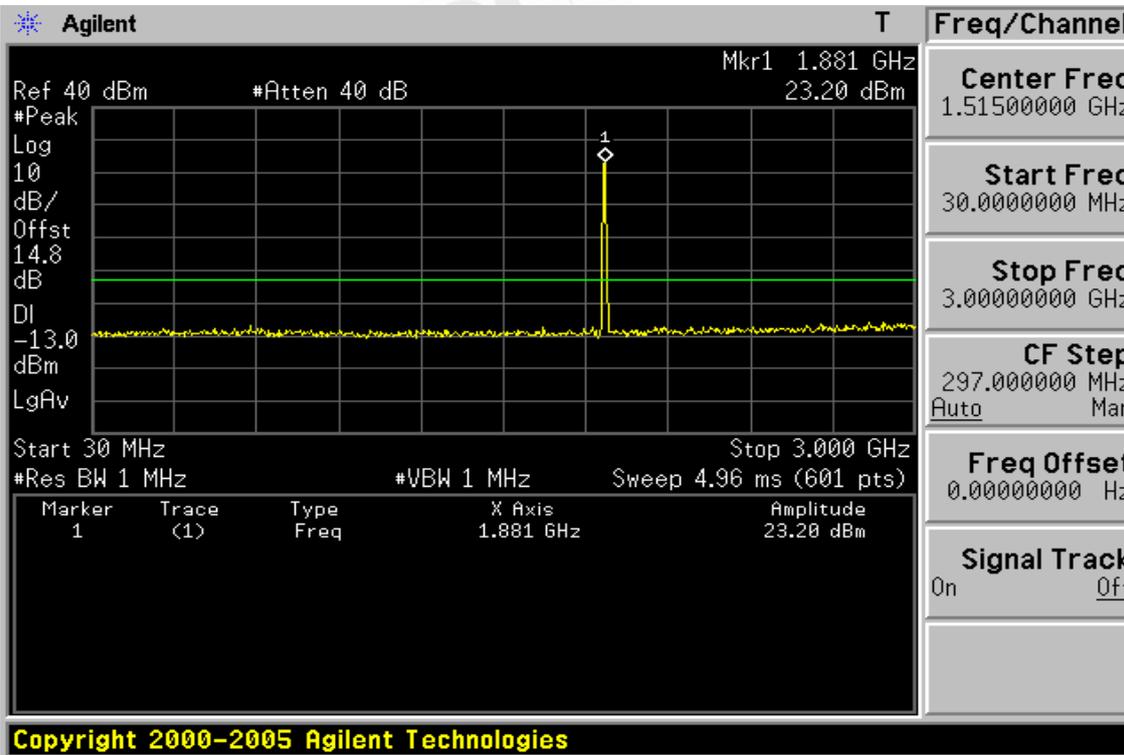
Figure 9-51: Out of Band emission at antenna terminals – HSUPA II Channel Lowest



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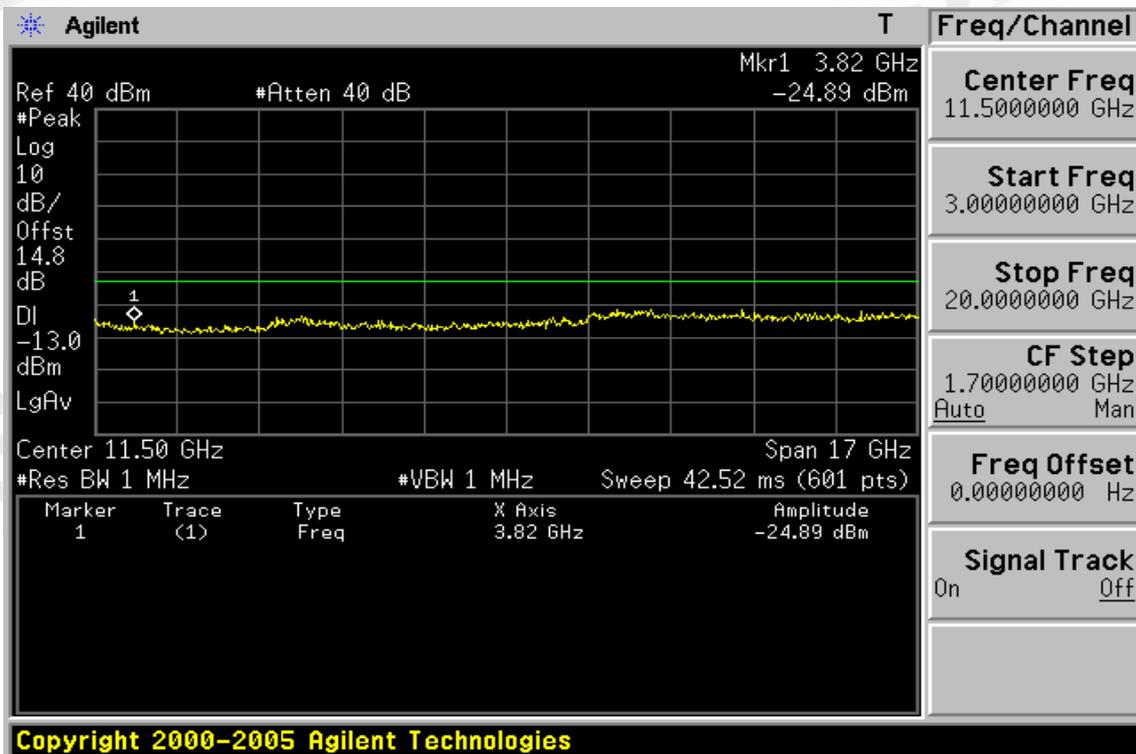
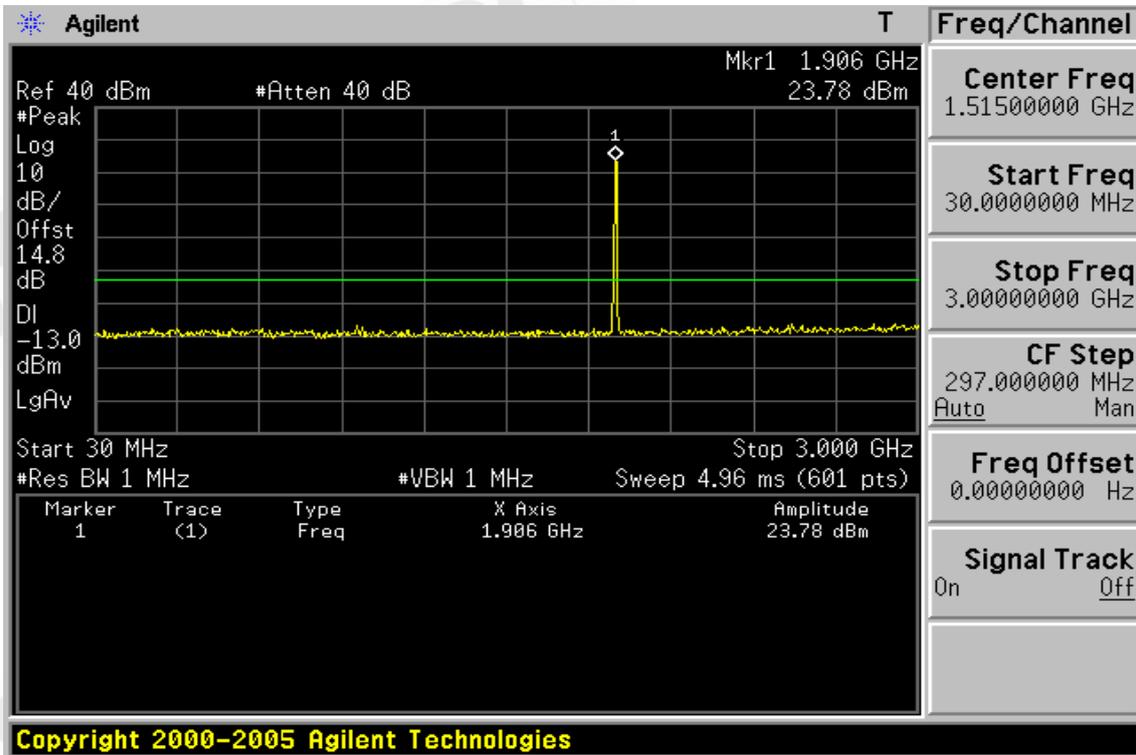
Figure 9-52: Out of Band emission at antenna terminals – HSUPA II Channel Mid



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Figure 9-53: Out of Band emission at antenna terminals – HSUPA II Channel Highest



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**Out of Band emission at antenna terminals – HSUPA II**

Fundamental Frequency :1852.4 MHz Engineer :Jay  
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3704.80	H	---	-13.00	---
3710.00	S	-21.41	-13.00	8.41
5557.20	H	---	-13.00	---
7409.60	H	---	-13.00	---
9262.00	H	---	-13.00	---
11114.40	H	---	-13.00	---
12966.80	H	---	-13.00	---
14819.20	H	---	-13.00	---
16671.60	H	---	-13.00	---
18524.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
“---“ : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Jay  
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3760.00	S	-23.61	-13.00	10.61
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Fundamental Frequency :1907.6MHz Engineer :Jay  
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3815.20	H	---	-13.00	---
3820.00	S	-24.89	-13.00	11.89
5722.80	H	---	-13.00	---
7630.40	H	---	-13.00	---
9538.00	H	---	-13.00	---
11445.60	H	---	-13.00	---
13353.20	H	---	-13.00	---
15260.80	H	---	-13.00	---
17168.40	H	---	-13.00	---
19076.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Figure 9-54: Band edge emission at antenna terminals – HSUPA II Channel Lowest

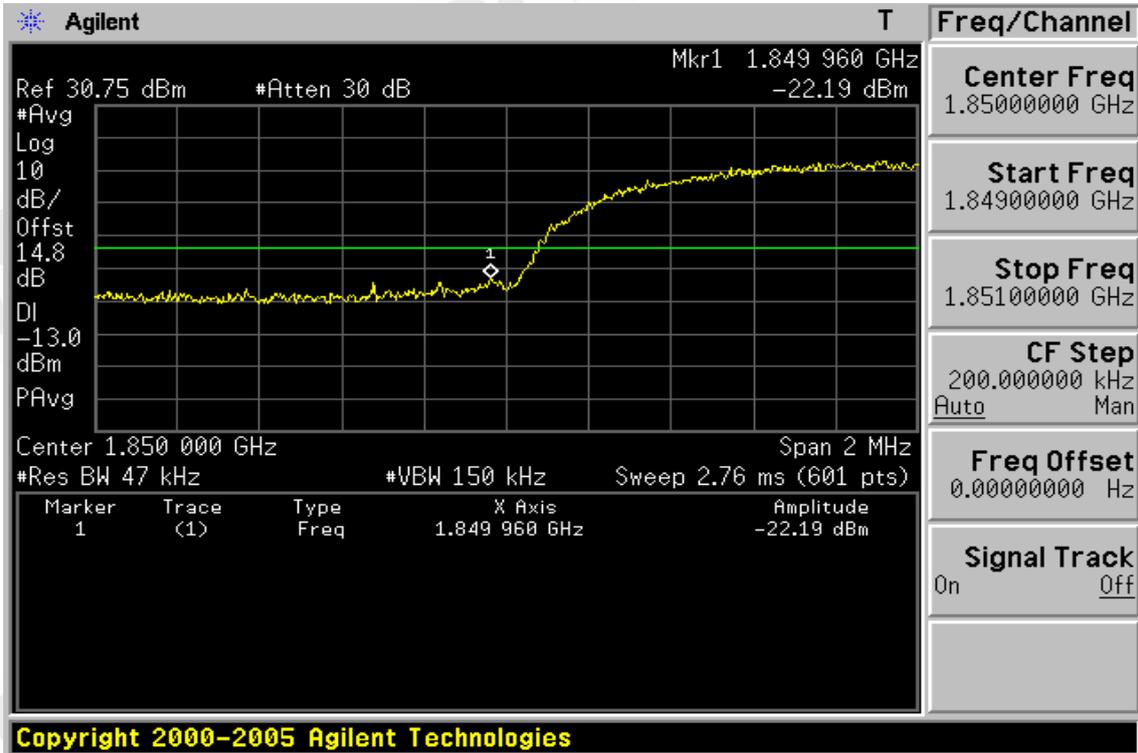
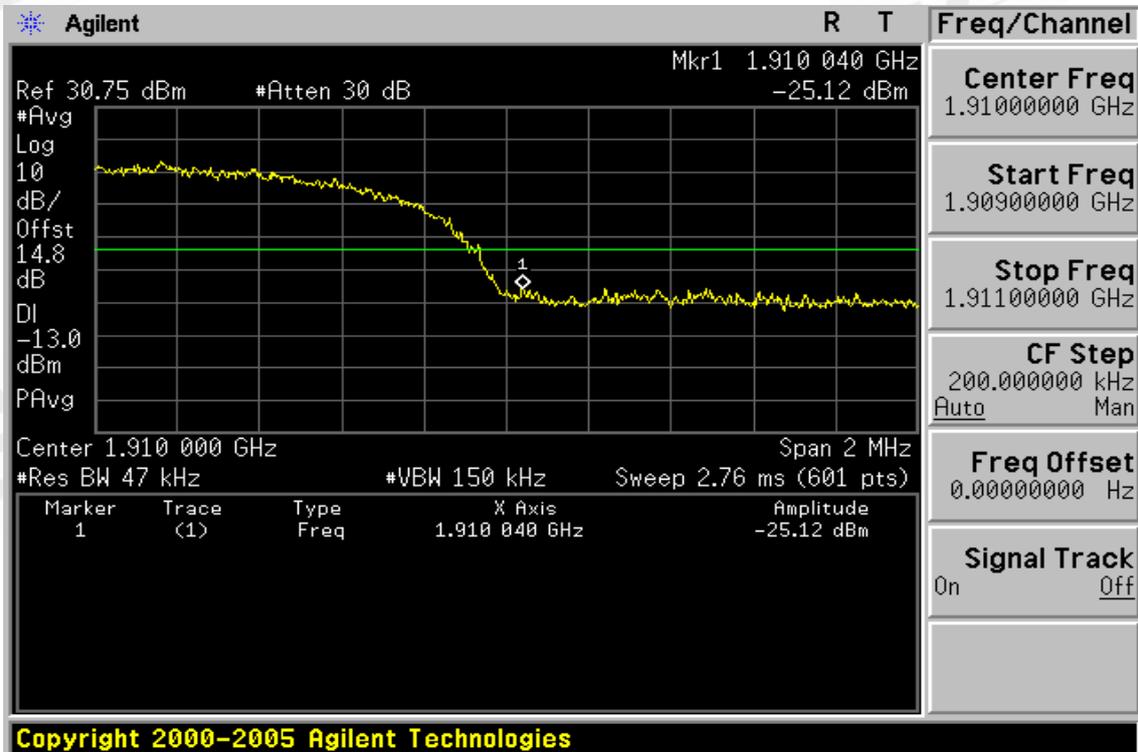


Figure 9-55: Band edge emission at antenna terminals – HSUPA II Channel Highest



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**Band edge emission at antenna terminals – HSUPA II Low & High**

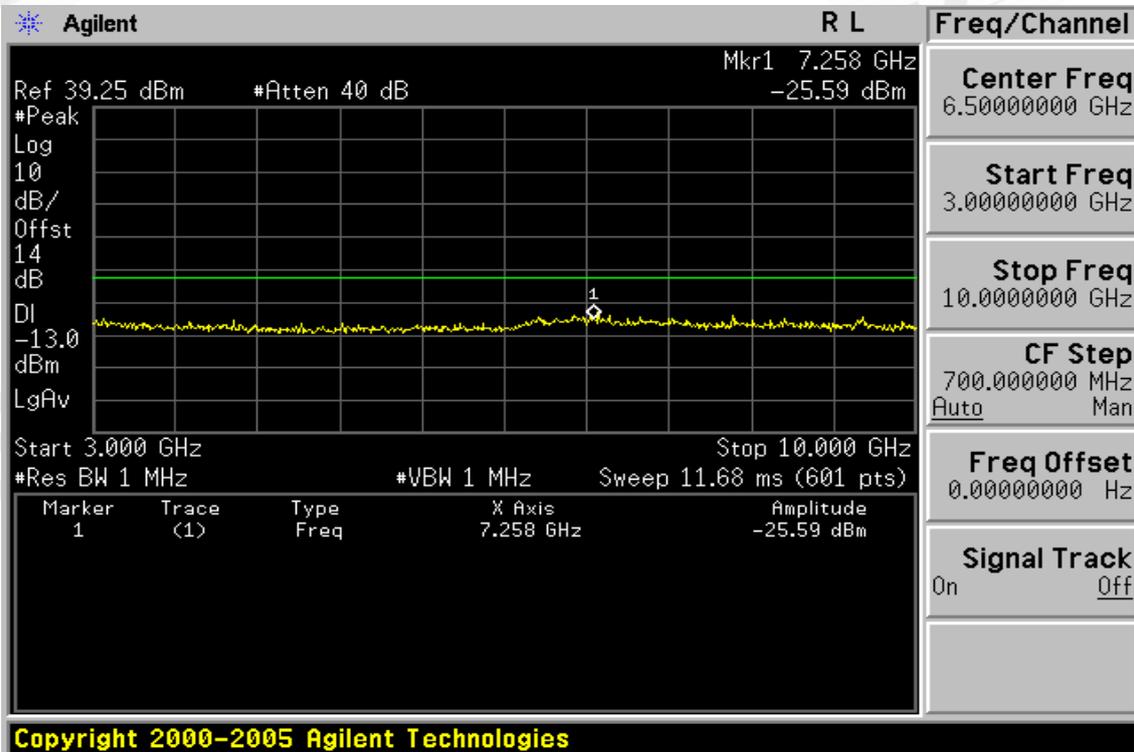
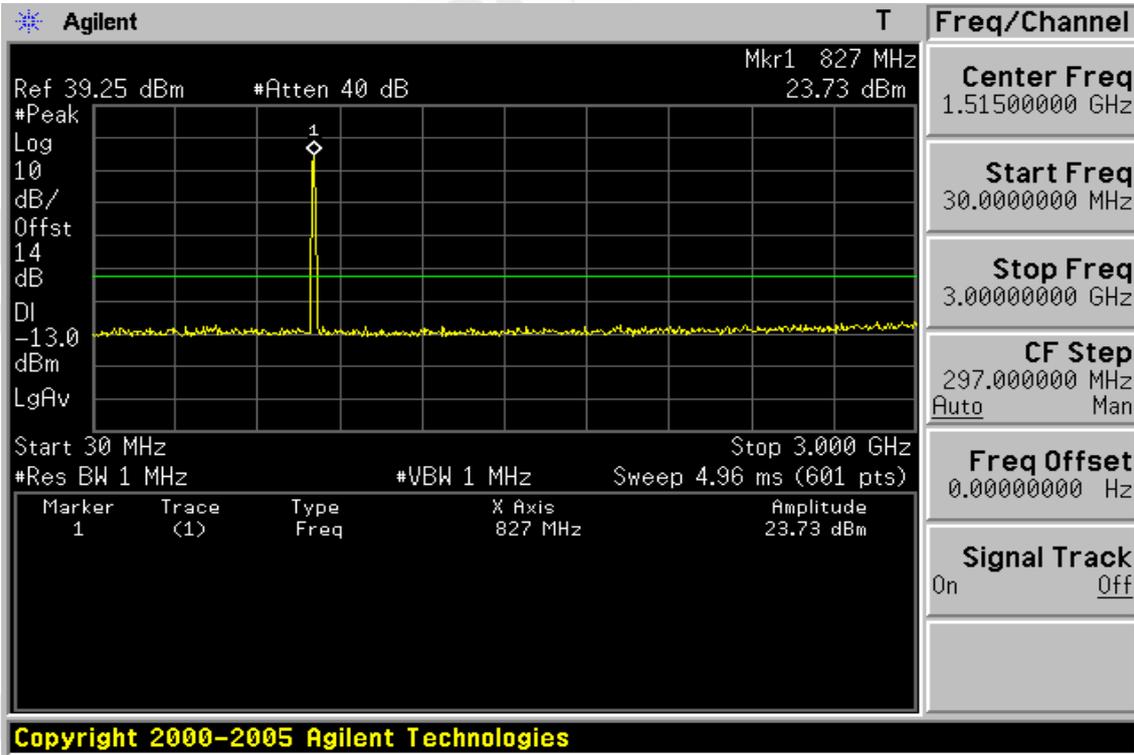
Test Mode                      HSUPA II                      Engineer                      :Jay

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1849.960	-22.19	-13.00	9.19
1910.040	-25.12	-13.00	12.12

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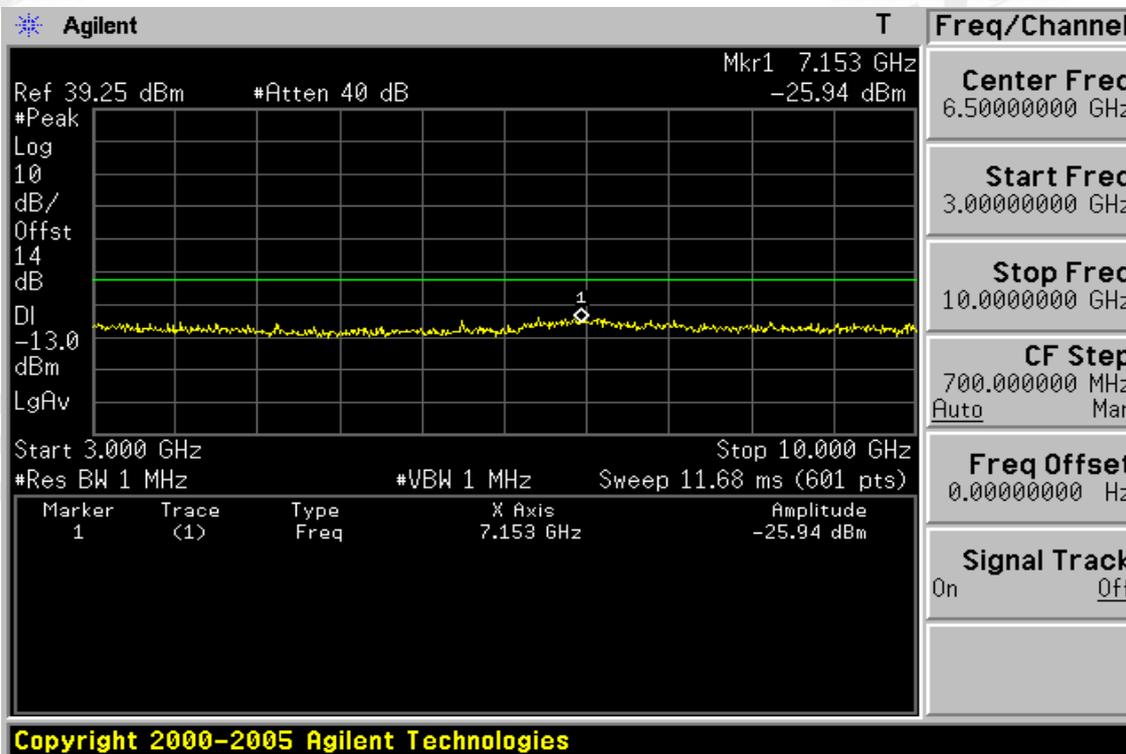
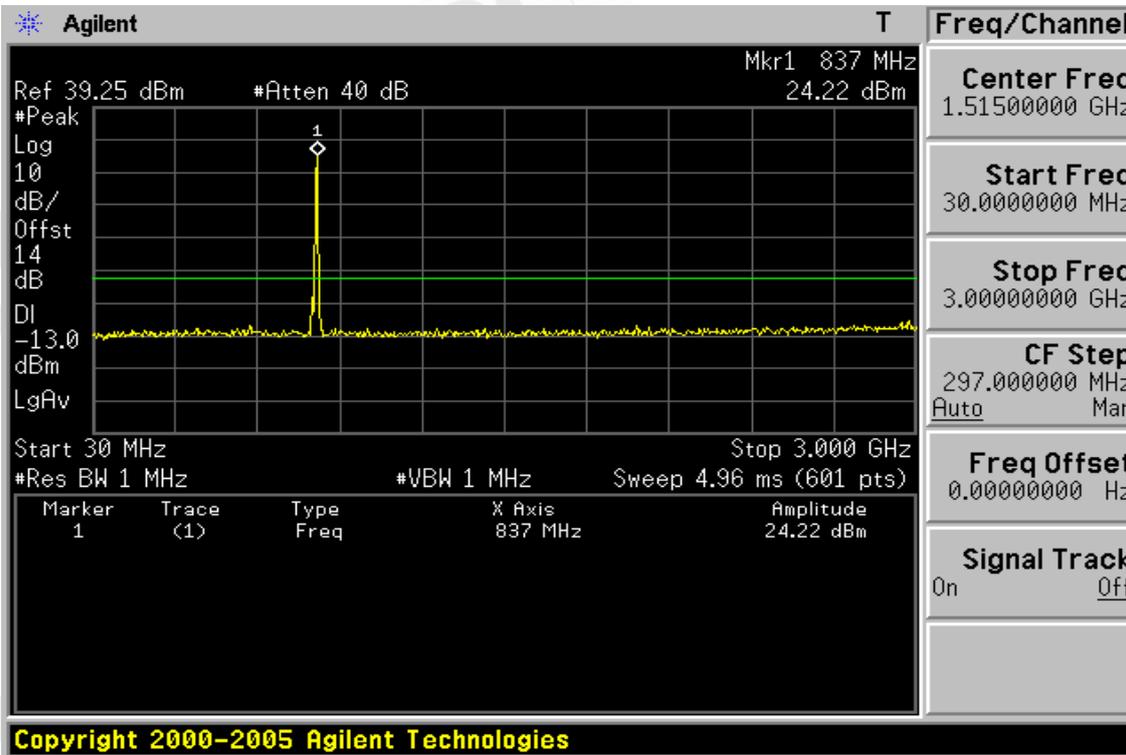
**Figure 9-56: Out of Band emission at antenna terminals – HSUPA V Channel Lowest**



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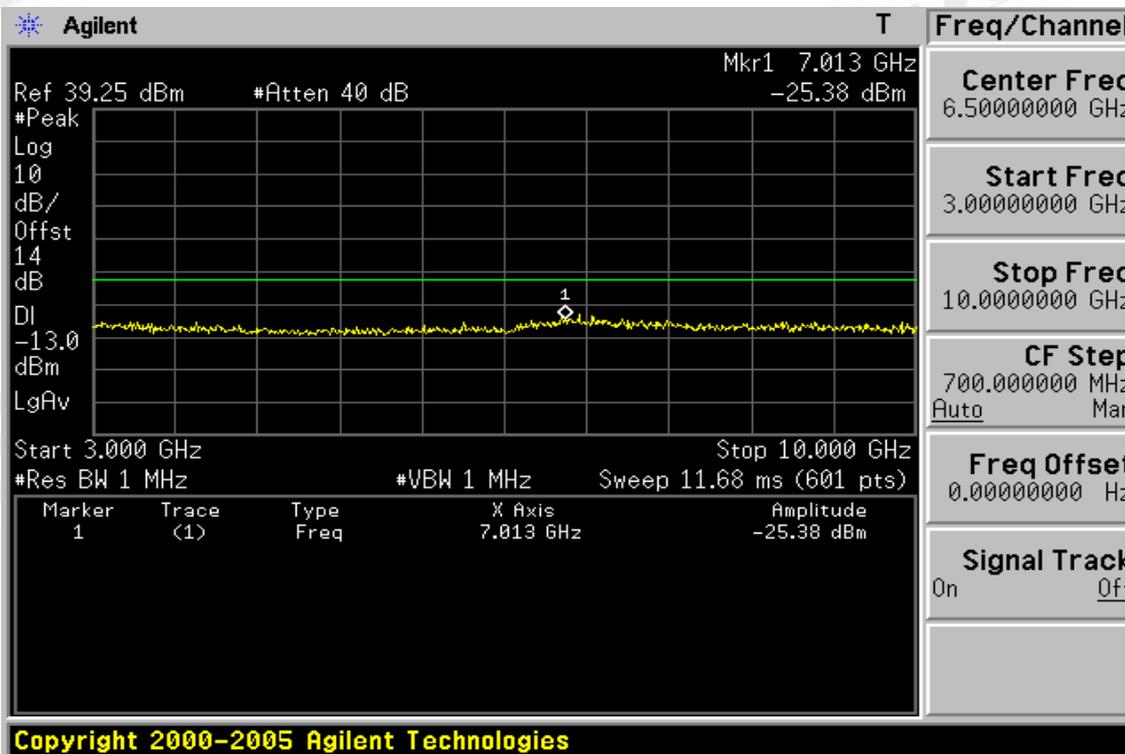
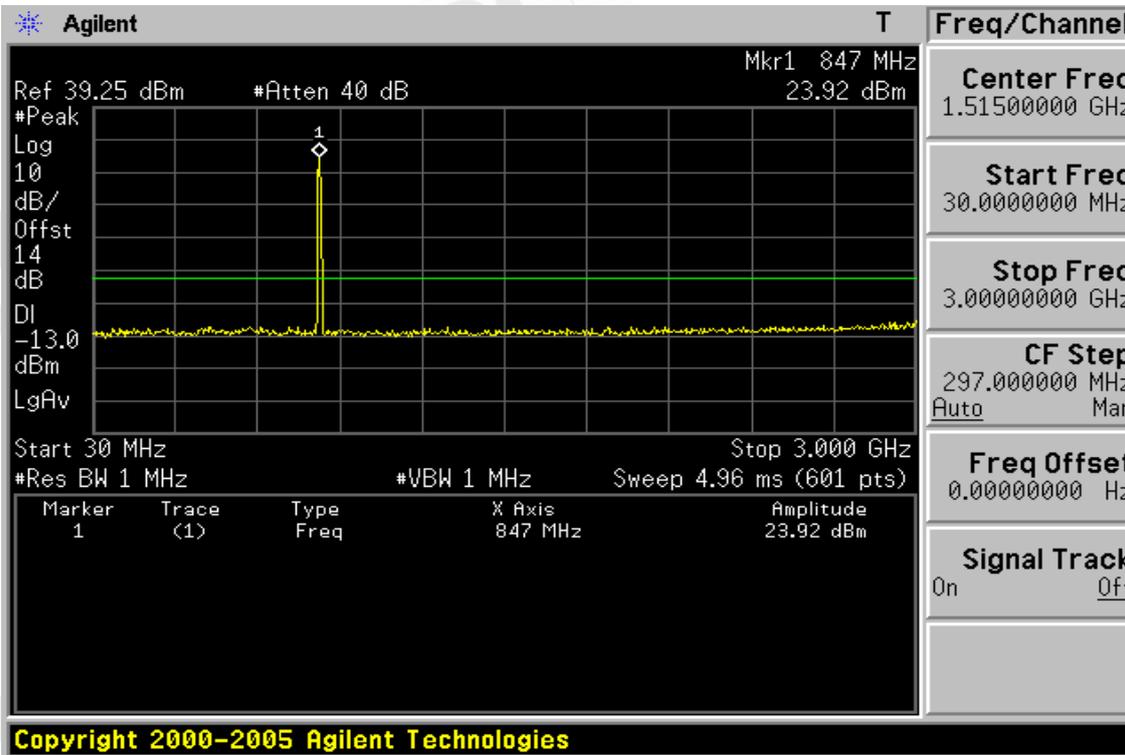
Figure 9-57: Out of Band emission at antenna terminals – HSUPA V Channel Mid



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**Figure 9-58: Out of Band emission at antenna terminals – HSUPA V Channel Highest**



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## Out of Band emission at antenna terminals – HSUPA V

Fundamental Frequency :826.4 MHz Engineer :Jay  
Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1652.80	H	---	-13.00	---
2479.20	H	---	-13.00	---
3305.60	H	---	-13.00	---
4132.00	H	---	-13.00	---
4958.40	H	---	-13.00	---
5784.80	H	---	-13.00	---
6611.20	H	---	-13.00	---
7258.00	S	-25.59	-13.00	12.59
7437.60	H	---	-13.00	---
8264.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
“---“ : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz Engineer :Jay  
Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1673.20	H	---	-13.00	---
2509.80	H	---	-13.00	---
3346.40	H	---	-13.00	---
4183.00	H	---	-13.00	---
5019.60	H	---	-13.00	---
5856.20	H	---	-13.00	---
6692.80	H	---	-13.00	---
7153.00	S	-25.94	-13.00	12.94
7529.40	H	---	-13.00	---
8366.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Fundamental Frequency :846.6MHz Engineer :Jay  
Operation Mode :TX High

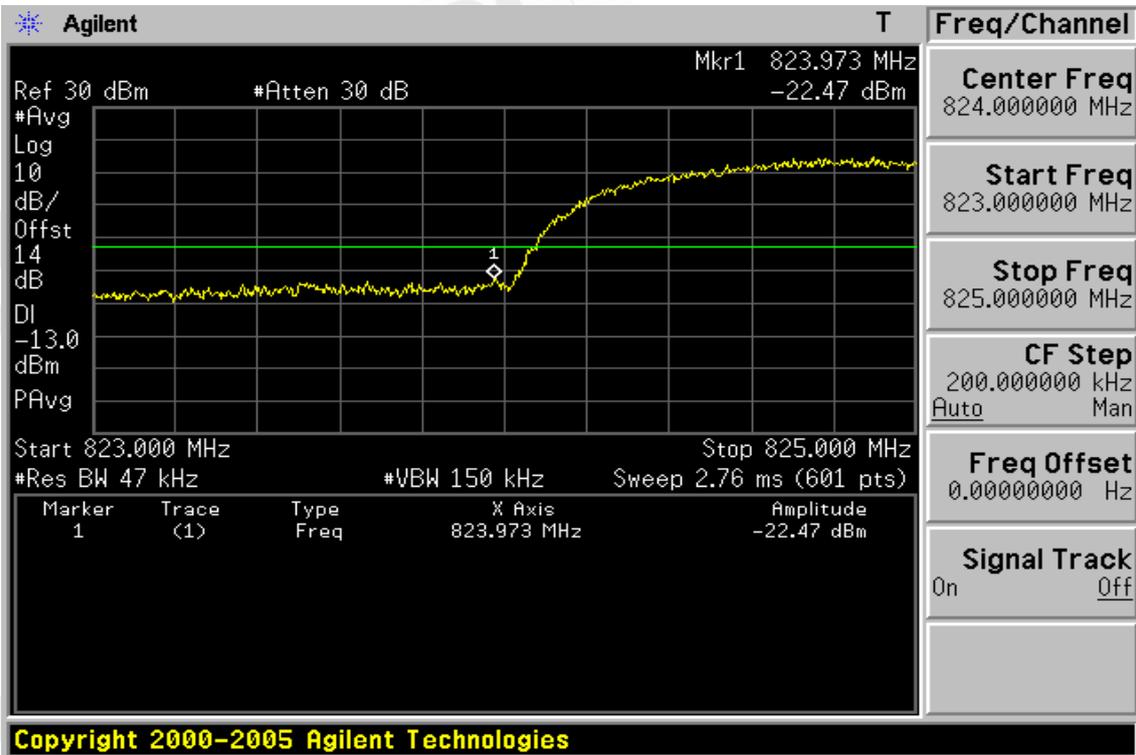
Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1693.20	H	---	-13.00	---
2539.80	H	---	-13.00	---
3386.40	H	---	-13.00	---
4233.00	H	---	-13.00	---
5079.60	H	---	-13.00	---
5926.20	H	---	-13.00	---
6772.80	H	---	-13.00	---
7013.00	S	-25.38	-13.00	12.38
7619.40	H	---	-13.00	---
8466.00	H	---	-13.00	---

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

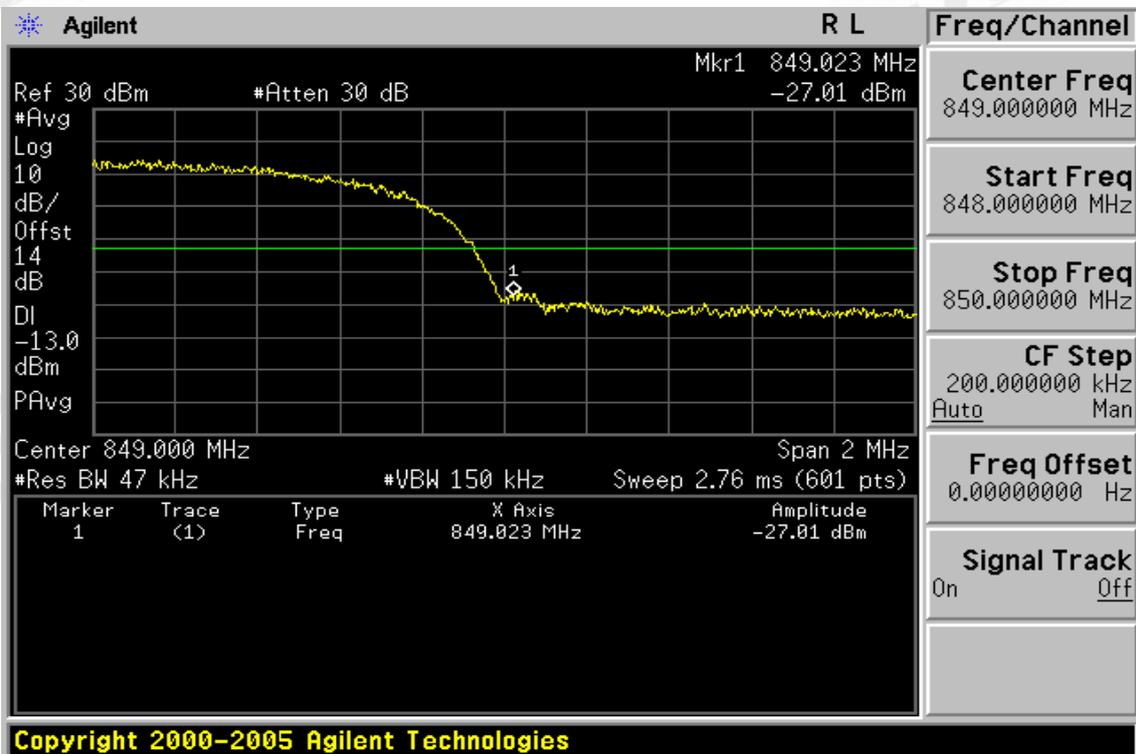
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**Figure 9-59: Band edge emission at antenna terminals – HSUPA V Channel Lowest**



**Figure 9-60: Band edge emission at antenna terminals – HSUPA V Channel Highest**



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**Band edge emission at antenna terminals – HSUPA V Low & High**

Test Mode                      HSUPA V                      Engineer                      :Jay

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
823.973	-22.47	-13.00	9.47
849.023	-27.01	-13.00	14.01

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## 10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

### 10.1. Standard Applicable:

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than  $43 + 10 \log$  (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm)

According to RSS-132 §4.5

#### 4.5.1 Out-of-block Emissions

Mobile and base station equipment with emission bandwidth less than or equal to 4 MHz shall comply with 4.5.1.1. Mobile station equipment with emission bandwidth greater than 4 MHz shall comply with 4.5.1.2. Base station equipment with emission bandwidth greater than 4 MHz shall comply with either 4.5.1.2 or 4.5.1.3.

4.5.1.1 In the first 1.0 MHz band immediately outside and adjacent to the licensee's frequency block, the power of emissions per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in watts) by at least  $43 + 10 \log (P)$ , dB. After the first 1.0 MHz, the power of emissions shall be attenuated below the transmitter output power by at least  $43 + 10 \log (P)$ , dB, in any 100 kHz bandwidth.

4.5.1.2 In the first 1.0 MHz band immediately outside and adjacent to the licensee's frequency block, the power of emissions per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in watts) by at least  $43 + 10 \log (P)$ , dB. After the first 1.0 MHz, the power of emissions shall be attenuated below the transmitter output power by at least  $43 + 10 \log (P)$ , dB, in any 1 MHz bandwidth

According to RSS-133 §6.5

#### 6.5.1 Out-of-Block Emissions

a. Mobile stations must comply with subsection i. below.

In the first 1.0MHz band immediately outside and adjacent to the licensee's frequency block. the power of emissions per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in watts) by at least  $43 + 10 \log (P)$  dB.

b. After the first 1.0 MHz (for equipment that complies with a.i. of this subsection) or 1.5 MHz (for equipment that complies with all of this subsection), the power of emissions shall be attenuated below the transmitter output power by at least  $43 + 10 \log (P)$ , dB, per any MHz of bandwidth.

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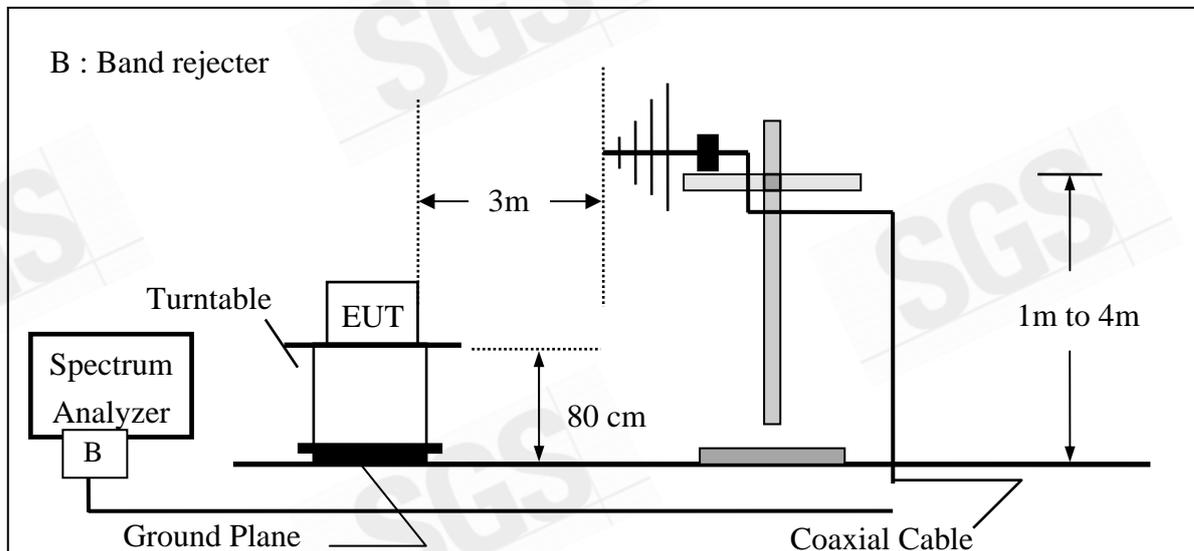
(Note: If the test result using 1% of the emission bandwidth is used, then power integration over 1.0 MHz is required; alternatively, the spectrum analyzer resolution and video bandwidths can be increased to 1.0 MHz for this measurement).

### 6.5.2 Out-of-Sub-band Emissions

Outside the sub-bands 1850-1910 MHz and 1930-1990 MHz, the attenuation shall be equal to or greater than the out-of-block emission limits in Section 6.5.1.

## 10.2. EUT Setup (Block Diagram of Configuration):

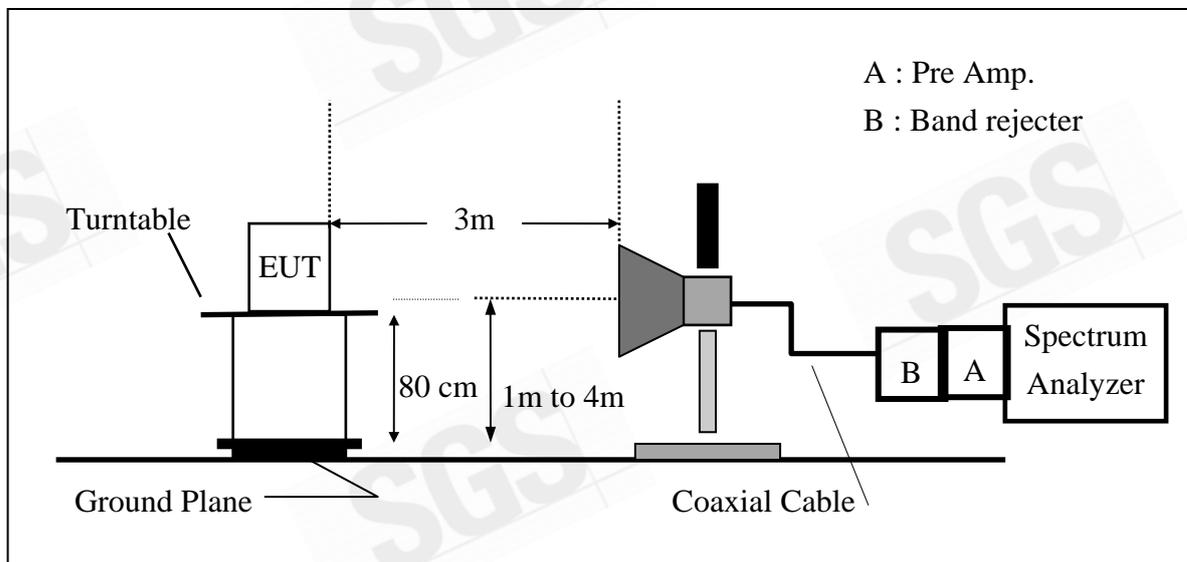
### Radiated Emission Test Set-Up, Frequency Below 1000MHz



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### Radiated Emission Test Set-UP Frequency Over 1 GHz



#### 10.3. Measurement Procedure:

The EUT was placed on a non-conductive; The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dBi)} - \text{Cable Loss (dB)}$$

#### 10.4. Measurement Equipment Used:

Refer to section 2.4 in this report

#### 10.5. Measurement Result:

Refer to attach tabular data sheets.

For radiated plot of test data, please refer to Appendix 1, page 197.

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## Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Band :GPRS 850 Test Date :2012-05-19  
ARFCN :CH 128 Temp./Humi. :21 deg\_C / 59 RH  
Fundamental Frequency :824.2 MHz Engineer :Jay  
Operation Mode :TX  
EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
41.64	S	-75.30	-59.47	-13.10	-2.73	-13.00	-62.30
99.84	S	-84.10	-80.40	-0.99	-2.72	-13.00	-71.10
298.69	S	-88.58	-89.98	4.65	-3.25	-13.00	-75.58
381.14	S	-84.94	-86.04	4.65	-3.56	-13.00	-71.94
500.45	S	-83.80	-84.82	4.72	-3.70	-13.00	-70.80
670.20	S	-82.19	-82.22	4.13	-4.10	-13.00	-69.19
1648.40	H	-51.18	-48.22	2.39	-5.36	-13.00	-38.18
2472.60	H	-51.99	-48.98	3.14	-6.15	-13.00	-38.99
3296.80	H	---	---	---	---	---	---
4121.00	H	---	---	---	---	---	---
4945.20	H	---	---	---	---	---	---
5769.40	H	---	---	---	---	---	---
6593.60	H	---	---	---	---	---	---
7417.80	H	---	---	---	---	---	---
8242.00	H	---	---	---	---	---	---

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Operation Band :GPRS 850 Test Date :2012-05-19  
ARFCN :CH 128 Temp./Humi. :21 deg\_C / 59 RH  
Fundamental Frequency :824.2 MHz Engineer :Jay  
Operation Mode :TX  
EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
41.64	S	-87.69	-71.86	-13.10	-2.73	-13.00	-74.69
135.73	S	-88.50	-84.63	-1.08	-2.79	-13.00	-75.50
286.08	S	-86.15	-87.43	4.50	-3.22	-13.00	-73.15
399.57	S	-85.06	-86.22	4.78	-3.62	-13.00	-72.06
500.45	S	-83.79	-84.81	4.72	-3.70	-13.00	-70.79
666.32	S	-82.12	-82.11	4.13	-4.14	-13.00	-69.12
1648.40	H	-54.74	-52.06	2.68	-5.36	-13.00	-41.74
2472.60	H	-60.00	-57.37	3.52	-6.15	-13.00	-47.00
3296.80	H	---					
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Operation Band :GPRS 850 Test Date :2012-05-19  
ARFCN :CH 190 Temp./Humi. :21 deg\_C / 59 RH  
Fundamental Frequency :836.6 MHz Engineer :Jay  
Operation Mode :TX  
EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
41.64	S	-76.04	-60.20	-13.10	-2.73	-13.00	-63.04
100.81	S	-84.82	-81.11	-1.00	-2.72	-13.00	-71.82
293.84	S	-88.98	-90.33	4.59	-3.25	-13.00	-75.98
355.92	S	-85.30	-86.62	4.75	-3.43	-13.00	-72.30
454.86	S	-83.38	-84.15	4.49	-3.72	-13.00	-70.38
639.16	S	-81.91	-82.03	4.10	-3.98	-13.00	-68.91
1673.20	H	-53.48	-50.47	2.33	-5.34	-13.00	-40.48
2509.80	H	-54.29	-51.36	3.19	-6.13	-13.00	-41.29
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Operation Band	:GPRS 850	Test Date	:2012-05-19
ARFCN	:CH 190	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Jay
Operation Mode	:TX		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
41.64	S	-88.03	-72.19	-13.10	-2.73	-13.00	-75.03
131.85	S	-88.82	-85.21	-0.83	-2.79	-13.00	-75.82
286.08	S	-86.62	-87.89	4.50	-3.22	-13.00	-73.62
377.26	S	-85.10	-86.30	4.63	-3.43	-13.00	-72.10
469.41	S	-83.89	-84.73	4.56	-3.72	-13.00	-70.89
666.32	S	-81.56	-81.55	4.13	-4.14	-13.00	-68.56
1673.20	H	-58.87	-56.19	2.66	-5.34	-13.00	-45.87
2509.80	H	-59.01	-56.39	3.53	-6.15	-13.00	-46.01
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Operation Band :GPRS 850 Test Date :2012-05-19  
ARFCN :CH 251 Temp./Humi. :21 deg\_C / 59 RH  
Fundamental Frequency :848.8 MHz Engineer :Jay  
Operation Mode :TX  
EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
42.61	S	-75.23	-59.59	-12.91	-2.73	-13.00	-62.23
100.81	S	-84.53	-80.82	-1.00	-2.72	-13.00	-71.53
293.84	S	-88.92	-90.27	4.59	-3.25	-13.00	-75.92
369.50	S	-84.85	-86.07	4.65	-3.43	-13.00	-71.85
494.63	S	-84.57	-85.56	4.69	-3.70	-13.00	-71.57
661.47	S	-81.25	-81.23	4.13	-4.14	-13.00	-68.25
1697.60	H	-54.58	-51.46	2.29	-5.40	-13.00	-41.58
2546.40	H	---					
3395.20	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Operation Band :GPRS 850 Test Date :2012-05-19  
ARFCN :CH 251 Temp./Humi. :21 deg\_C / 59 RH  
Fundamental Frequency :848.8 MHz Engineer :Jay  
Operation Mode :TX  
EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
42.61	S	-86.95	-71.31	-12.91	-2.73	-13.00	-73.95
143.49	S	-88.10	-84.06	-1.26	-2.79	-13.00	-75.10
286.08	S	-85.95	-87.23	4.50	-3.22	-13.00	-72.95
353.01	S	-84.76	-86.10	4.77	-3.43	-13.00	-71.76
455.83	S	-83.40	-84.17	4.50	-3.72	-13.00	-70.40
665.35	S	-81.65	-81.64	4.13	-4.14	-13.00	-68.65
1697.60	H	-57.06	-54.31	2.65	-5.40	-13.00	-44.06
2546.40	H	-59.44	-56.88	3.61	-6.17	-13.00	-46.44
3395.20	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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## Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Band	:GSM 1900	Test Date	:2012-05-19
ARFCN	:CH 512	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Jay
Operation Mode	:TX		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
42.61	S	-76.10	-62.60	-10.76	-2.73	-13.00	-63.10
100.81	S	-81.76	-80.20	1.15	-2.72	-13.00	-68.76
283.17	S	-83.19	-86.58	6.61	-3.22	-13.00	-70.19
393.75	S	-82.05	-85.38	6.89	-3.56	-13.00	-69.05
468.44	S	-80.64	-83.63	6.71	-3.72	-13.00	-67.64
643.04	S	-77.93	-80.20	6.26	-3.98	-13.00	-64.93
3700.40	H	-54.87	-55.29	7.40	-6.98	-13.00	-41.87
5550.60	H	-51.95	-52.57	8.99	-8.37	-13.00	-38.95
7400.80	H	---	---	---	---	---	---
9251.00	H	---	---	---	---	---	---
11101.20	H	---	---	---	---	---	---
12951.40	H	---	---	---	---	---	---
14801.60	H	---	---	---	---	---	---
16651.80	H	---	---	---	---	---	---
18502.00	H	---	---	---	---	---	---

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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Operation Band :GSM 1900 Test Date :2012-05-19  
ARFCN :CH 512 Temp./Humi. :21 deg\_C / 59 RH  
Fundamental Frequency :1850.2 MHz Engineer :Jay  
Operation Mode :TX  
EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
42.61	S	-87.69	-74.19	-10.76	-2.73	-13.00	-74.69
143.49	S	-85.25	-83.35	0.89	-2.79	-13.00	-72.25
286.08	S	-79.55	-82.98	6.65	-3.22	-13.00	-66.55
389.87	S	-82.63	-85.94	6.86	-3.56	-13.00	-69.63
492.69	S	-80.74	-83.87	6.83	-3.70	-13.00	-67.74
651.77	S	-78.31	-80.44	6.27	-4.14	-13.00	-65.31
3700.40	H	-56.79	-56.73	6.92	-6.98	-13.00	-43.79
5550.60	H	-49.97	-49.87	8.27	-8.37	-13.00	-36.97
7400.80	H	---	---	---	---	---	---
9251.00	H	---	---	---	---	---	---
11101.20	H	---	---	---	---	---	---
12951.40	H	---	---	---	---	---	---
14801.60	H	---	---	---	---	---	---
16651.80	H	---	---	---	---	---	---
18502.00	H	---	---	---	---	---	---

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Operation Band :GSM 1900 Test Date :2012-05-19  
ARFCN :CH 661 Temp./Humi. :21 deg\_C / 59 RH  
Fundamental Frequency :1880.0 MHz Engineer :Jay  
Operation Mode :TX  
EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
41.64	S	-75.93	-62.24	-10.95	-2.73	-13.00	-62.93
143.49	S	-82.69	-80.79	0.89	-2.79	-13.00	-69.69
274.44	S	-83.12	-86.54	6.65	-3.22	-13.00	-70.12
366.59	S	-82.38	-85.77	6.82	-3.43	-13.00	-69.38
500.45	S	-80.16	-83.33	6.87	-3.70	-13.00	-67.16
639.16	S	-78.04	-80.31	6.25	-3.98	-13.00	-65.04
3760.00	H	-54.51	-54.82	7.42	-7.12	-13.00	-41.51
5640.00	H	-51.54	-52.29	9.01	-8.26	-13.00	-38.54
7520.00	H	---	---	---	---	---	---
9400.00	H	---	---	---	---	---	---
11280.00	H	---	---	---	---	---	---
13160.00	H	---	---	---	---	---	---
15040.00	H	---	---	---	---	---	---
16920.00	H	---	---	---	---	---	---
18800.00	H	---	---	---	---	---	---

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Operation Band :GSM 1900 Test Date :2012-05-19  
ARFCN :CH 661 Temp./Humi. :21 deg\_C / 59 RH  
Fundamental Frequency :1880.0 MHz Engineer :Jay  
Operation Mode :TX  
EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
40.67	S	-88.36	-74.48	-11.14	-2.73	-13.00	-75.36
144.46	S	-85.56	-83.68	0.91	-2.79	-13.00	-72.56
286.08	S	-80.40	-83.83	6.65	-3.22	-13.00	-67.40
340.40	S	-81.90	-85.34	6.88	-3.44	-13.00	-68.90
497.54	S	-81.09	-84.25	6.86	-3.70	-13.00	-68.09
641.10	S	-76.24	-78.51	6.25	-3.98	-13.00	-63.24
3760.00	H	-56.28	-56.02	6.85	-7.12	-13.00	-43.28
5640.00	H	-51.16	-51.20	8.30	-8.26	-13.00	-38.16
7520.00	H	---	---	---	---	---	---
9400.00	H	---	---	---	---	---	---
11280.00	H	---	---	---	---	---	---
13160.00	H	---	---	---	---	---	---
15040.00	H	---	---	---	---	---	---
16920.00	H	---	---	---	---	---	---
18800.00	H	---	---	---	---	---	---

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Operation Band :GSM 1900 Test Date :2012-05-19  
ARFCN :CH 810 Temp./Humi. :21 deg\_C / 59 RH  
Fundamental Frequency :1909.8 MHz Engineer :Jay  
Operation Mode :TX  
EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
42.61	S	-76.36	-62.86	-10.76	-2.73	-13.00	-63.36
101.78	S	-82.71	-81.14	1.15	-2.72	-13.00	-69.71
286.08	S	-82.64	-86.07	6.65	-3.22	-13.00	-69.64
305.48	S	-82.49	-86.05	6.81	-3.25	-13.00	-69.49
492.69	S	-80.64	-83.77	6.83	-3.70	-13.00	-67.64
666.32	S	-77.77	-79.91	6.28	-4.14	-13.00	-64.77
3760.00	H	-54.55	-54.87	7.51	-7.20	-13.00	-41.55
5640.00	H	-51.14	-51.72	9.03	-8.44	-13.00	-38.14
7520.00	H	---	---	---	---	---	---
9400.00	H	---	---	---	---	---	---
11280.00	H	---	---	---	---	---	---
13160.00	H	---	---	---	---	---	---
15040.00	H	---	---	---	---	---	---
16920.00	H	---	---	---	---	---	---
18800.00	H	---	---	---	---	---	---

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Operation Band :GSM 1900 Test Date :2012-05-19  
ARFCN :CH 810 Temp./Humi. :21 deg\_C / 59 RH  
Fundamental Frequency :1909.8 MHz Engineer :Jay  
Operation Mode :TX  
EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
41.64	S	-87.11	-73.42	-10.95	-2.73	-13.00	-74.11
143.49	S	-85.37	-83.47	0.89	-2.79	-13.00	-72.37
286.08	S	-80.85	-84.27	6.65	-3.22	-13.00	-67.85
307.42	S	-83.05	-86.60	6.80	-3.25	-13.00	-70.05
493.66	S	-80.79	-83.93	6.84	-3.70	-13.00	-67.79
643.04	S	-77.88	-80.15	6.26	-3.98	-13.00	-64.88
3760.00	H	-57.44	-57.29	7.05	-7.20	-13.00	-44.44
5640.00	H	-50.67	-50.55	8.32	-8.44	-13.00	-37.67
7520.00	H	---	---	---	---	---	---
9400.00	H	---	---	---	---	---	---
11280.00	H	---	---	---	---	---	---
13160.00	H	---	---	---	---	---	---
15040.00	H	---	---	---	---	---	---
16920.00	H	---	---	---	---	---	---
18800.00	H	---	---	---	---	---	---

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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## Radiated Spurious Emission Measurement Result: HSUPA II Mode

Operation Band	:HSUPA B2	Test Date	:2012-05-24
ARFCN	:CH 9262	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Jay
Operation Mode	:TX		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
41.64	S	-76.44	-62.75	-10.95	-2.73	-13.00	-63.44
103.72	S	-82.73	-81.14	1.13	-2.72	-13.00	-69.73
288.02	S	-82.69	-86.15	6.67	-3.22	-13.00	-69.69
373.38	S	-82.97	-86.31	6.77	-3.43	-13.00	-69.97
498.51	S	-80.72	-83.89	6.86	-3.70	-13.00	-67.72
660.50	S	-77.14	-79.27	6.28	-4.14	-13.00	-64.14
3704.80	H	-40.14	-40.57	7.40	-6.98	-13.00	-27.14
5557.20	H	-49.61	-50.31	8.99	-8.28	-13.00	-36.61
7409.60	H	---	---	---	---	---	---
9262.00	H	---	---	---	---	---	---
11114.40	H	---	---	---	---	---	---
12966.80	H	---	---	---	---	---	---
14819.20	H	---	---	---	---	---	---
16671.60	H	---	---	---	---	---	---
18524.00	H	---	---	---	---	---	---

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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Operation Band :HSUPA B2 Test Date :2012-05-24  
ARFCN :CH 9262 Temp./Humi. :21 deg\_C / 59 RH  
Fundamental Frequency :1852.4 MHz Engineer :Jay  
Operation Mode :TX  
EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
42.61	S	-87.86	-74.36	-10.76	-2.73	-13.00	-74.86
145.43	S	-85.30	-83.45	0.94	-2.79	-13.00	-72.30
286.08	S	-80.65	-84.08	6.65	-3.22	-13.00	-67.65
358.83	S	-82.60	-86.05	6.87	-3.43	-13.00	-69.60
495.60	S	-81.11	-84.26	6.85	-3.70	-13.00	-68.11
669.23	S	-77.83	-80.01	6.28	-4.10	-13.00	-64.83
3704.80	H	-45.33	-45.26	6.90	-6.98	-13.00	-32.33
5557.20	H	-50.92	-50.92	8.28	-8.28	-13.00	-37.92
7409.60	H	---	---	---	---	---	---
9262.00	H	---	---	---	---	---	---
11114.40	H	---	---	---	---	---	---
12966.80	H	---	---	---	---	---	---
14819.20	H	---	---	---	---	---	---
16671.60	H	---	---	---	---	---	---
18524.00	H	---	---	---	---	---	---

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Operation Band :HSUPA B2 Test Date :2012-05-24  
ARFCN :CH 9400 Temp./Humi. :21 deg\_C / 59 RH  
Fundamental Frequency :1880.0 MHz Engineer :Jay  
Operation Mode :TX  
EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
41.64	S	-76.23	-62.54	-10.95	-2.73	-13.00	-63.23
99.84	S	-82.47	-80.91	1.16	-2.72	-13.00	-69.47
298.69	S	-83.36	-86.91	6.80	-3.25	-13.00	-70.36
359.80	S	-82.68	-86.12	6.87	-3.43	-13.00	-69.68
497.54	S	-81.52	-84.67	6.86	-3.70	-13.00	-68.52
640.13	S	-77.70	-79.97	6.25	-3.98	-13.00	-64.70
3760.00	H	-40.03	-40.34	7.42	-7.12	-13.00	-27.03
5640.00	H	-51.08	-51.83	9.01	-8.26	-13.00	-38.08
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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Operation Band :HSUPA B2 Test Date :2012-05-24  
ARFCN :CH 9400 Temp./Humi. :21 deg\_C / 59 RH  
Fundamental Frequency :1880.0 MHz Engineer :Jay  
Operation Mode :TX  
EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
41.64	S	-88.36	-74.68	-10.95	-2.73	-13.00	-75.36
149.31	S	-86.14	-84.24	1.02	-2.93	-13.00	-73.14
286.08	S	-80.94	-84.37	6.65	-3.22	-13.00	-67.94
376.29	S	-82.91	-86.25	6.77	-3.43	-13.00	-69.91
496.57	S	-80.50	-83.65	6.85	-3.70	-13.00	-67.50
644.98	S	-78.39	-80.67	6.26	-3.98	-13.00	-65.39
3760.00	H	-44.68	-44.42	6.85	-7.12	-13.00	-31.68
5640.00	H	-51.89	-51.92	8.30	-8.26	-13.00	-38.89
7520.00	H	---	---	---	---	---	---
9400.00	H	---	---	---	---	---	---
11280.00	H	---	---	---	---	---	---
13160.00	H	---	---	---	---	---	---
15040.00	H	---	---	---	---	---	---
16920.00	H	---	---	---	---	---	---
18800.00	H	---	---	---	---	---	---

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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Operation Band :HSUPA B2 Test Date :2012-05-24  
ARFCN :CH 9538 Temp./Humi. :21 deg\_C / 59 RH  
Fundamental Frequency :1907.6 MHz Engineer :Jay  
Operation Mode :TX  
EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
41.64	S	-76.57	-62.89	-10.95	-2.73	-13.00	-63.57
99.84	S	-82.43	-80.87	1.16	-2.72	-13.00	-69.43
258.92	S	-82.12	-85.68	6.83	-3.27	-13.00	-69.12
391.81	S	-82.87	-86.19	6.88	-3.56	-13.00	-69.87
491.72	S	-79.89	-83.02	6.83	-3.70	-13.00	-66.89
657.59	S	-77.82	-79.95	6.27	-4.14	-13.00	-64.82
3815.20	H	-40.71	-41.01	7.50	-7.20	-13.00	-27.71
5722.80	H	-52.05	-52.63	9.03	-8.44	-13.00	-39.05
7630.40	H	---	---	---	---	---	---
9538.00	H	---	---	---	---	---	---
11445.60	H	---	---	---	---	---	---
13353.20	H	---	---	---	---	---	---
15260.80	H	---	---	---	---	---	---
17168.40	H	---	---	---	---	---	---
19076.00	H	---	---	---	---	---	---

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
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Operation Band :HSUPA B2 Test Date :2012-05-24  
ARFCN :CH 9538 Temp./Humi. :21 deg\_C / 59 RH  
Fundamental Frequency :1907.6 MHz Engineer :Jay  
Operation Mode :TX  
EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
41.64	S	-87.41	-73.72	-10.95	-2.73	-13.00	-74.41
149.31	S	-85.45	-83.55	1.02	-2.93	-13.00	-72.45
286.08	S	-79.68	-83.11	6.65	-3.22	-13.00	-66.68
359.80	S	-81.52	-84.96	6.87	-3.43	-13.00	-68.52
499.48	S	-80.80	-83.97	6.87	-3.70	-13.00	-67.80
664.38	S	-77.42	-79.56	6.28	-4.14	-13.00	-64.42
3815.20	H	-44.77	-44.60	7.03	-7.20	-13.00	-31.77
5722.80	H	-50.62	-50.49	8.32	-8.44	-13.00	-37.62
7630.40	H	---	---	---	---	---	---
9538.00	H	---	---	---	---	---	---
11445.60	H	---	---	---	---	---	---
13353.20	H	---	---	---	---	---	---
15260.80	H	---	---	---	---	---	---
17168.40	H	---	---	---	---	---	---
19076.00	H	---	---	---	---	---	---

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
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## Radiated Spurious Emission Measurement Result: HSUPA V Mode

Operation Band	:HSUPA B5	Test Date	:2012-05-24
ARFCN	:CH 4132	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Jimmy
Operation Mode	:TX		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
42.61	S	-76.94	-61.30	-12.91	-2.73	-13.00	-63.94
99.84	S	-80.93	-77.22	-0.99	-2.72	-13.00	-67.93
298.69	S	-84.77	-86.17	4.65	-3.25	-13.00	-71.77
394.72	S	-84.41	-85.60	4.74	-3.56	-13.00	-71.41
496.57	S	-82.54	-83.54	4.70	-3.70	-13.00	-69.54
664.38	S	-79.81	-79.80	4.13	-4.14	-13.00	-66.81
1652.80	H	-59.87	-56.91	2.39	-5.36	-13.00	-46.87
2479.20	H	-60.47	-57.46	3.15	-6.15	-13.00	-47.47
3305.60	H	---					
4132.00	H	---					
4958.40	H	---					
5784.80	H	---					
6611.20	H	---					
7437.60	H	---					
8264.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B5	Test Date	:2012-05-24
ARFCN	:CH 4132	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Jay
Operation Mode	:TX		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
41.64	S	-86.73	-70.90	-13.10	-2.73	-13.00	-73.73
110.51	S	-85.15	-81.35	-1.09	-2.72	-13.00	-72.15
286.08	S	-85.77	-87.05	4.50	-3.22	-13.00	-72.77
363.68	S	-84.26	-85.52	4.69	-3.43	-13.00	-71.26
453.89	S	-83.38	-84.15	4.49	-3.72	-13.00	-70.38
670.20	S	-81.59	-81.63	4.13	-4.10	-13.00	-68.59
1652.80	H	-58.32	-55.64	2.68	-5.36	-13.00	-45.32
2479.20	H	-61.90	-59.27	3.52	-6.15	-13.00	-48.90
3305.60	H	---					
4132.00	H	---					
4958.40	H	---					
5784.80	H	---					
6611.20	H	---					
7437.60	H	---					
8264.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B5	Test Date	:2012-05-24
ARFCN	:CH 4183	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Jay
Operation Mode	:TX		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
42.61	S	-76.86	-61.21	-12.91	-2.73	-13.00	-63.86
98.87	S	-81.42	-77.69	-1.01	-2.72	-13.00	-68.42
282.20	S	-84.94	-86.17	4.45	-3.22	-13.00	-71.94
332.64	S	-84.61	-85.84	4.67	-3.44	-13.00	-71.61
485.90	S	-82.00	-82.94	4.65	-3.70	-13.00	-69.00
658.56	S	-79.27	-79.25	4.13	-4.14	-13.00	-66.27
1673.20	H	-63.00	-59.99	2.33	-5.34	-13.00	-50.00
2509.80	H	-59.87	-56.93	3.19	-6.13	-13.00	-46.87
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B5	Test Date	:2012-05-24
ARFCN	:CH 4183	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Jay
Operation Mode	:TX		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
42.61	S	-86.93	-71.29	-12.91	-2.73	-13.00	-73.93
109.54	S	-84.80	-81.01	-1.07	-2.72	-13.00	-71.80
286.08	S	-85.33	-86.61	4.50	-3.22	-13.00	-72.33
398.60	S	-84.35	-85.50	4.77	-3.62	-13.00	-71.35
459.71	S	-83.77	-84.56	4.52	-3.72	-13.00	-70.77
669.23	S	-81.64	-81.68	4.13	-4.10	-13.00	-68.64
1673.20	H	-62.21	-59.53	2.66	-5.34	-13.00	-49.21
2509.80	H	-60.25	-57.68	3.55	-6.13	-13.00	-47.25
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Operation Band :HSUPA B5 Test Date :2012-05-24  
ARFCN :CH 4233 Temp./Humi. :21 deg\_C / 59 RH  
Fundamental Frequency :846.6 MHz Engineer :Jay  
Operation Mode :TX  
EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
42.61	S	-76.43	-60.78	-12.91	-2.73	-13.00	-63.43
100.81	S	-80.79	-77.07	-1.00	-2.72	-13.00	-67.79
294.81	S	-84.70	-86.05	4.61	-3.25	-13.00	-71.70
361.74	S	-84.15	-85.43	4.70	-3.43	-13.00	-71.15
499.48	S	-82.28	-83.30	4.72	-3.70	-13.00	-69.28
643.04	S	-79.67	-79.79	4.11	-3.98	-13.00	-66.67
1693.20	H	-58.72	-55.60	2.29	-5.40	-13.00	-45.72
2539.80	H	-60.12	-57.16	3.28	-6.24	-13.00	-47.12
3386.40	H	---	---	---	---	---	---
4233.00	H	---	---	---	---	---	---
5079.60	H	---	---	---	---	---	---
5926.20	H	---	---	---	---	---	---
6772.80	H	---	---	---	---	---	---
7619.40	H	---	---	---	---	---	---
8466.00	H	---	---	---	---	---	---

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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Operation Band :HSUPA B5 Test Date :2012-05-24  
ARFCN :CH 4233 Temp./Humi. :21 deg\_C / 59 RH  
Fundamental Frequency :846.6 MHz Engineer :Jay  
Operation Mode :TX  
EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
42.61	S	-86.49	-70.84	-12.91	-2.73	-13.00	-73.49
112.45	S	-85.41	-81.50	-1.15	-2.77	-13.00	-72.41
286.08	S	-85.46	-86.74	4.50	-3.22	-13.00	-72.46
396.66	S	-84.50	-85.70	4.76	-3.56	-13.00	-71.50
494.63	S	-83.17	-84.17	4.69	-3.70	-13.00	-70.17
669.23	S	-81.71	-81.74	4.13	-4.10	-13.00	-68.71
1693.20	H	-57.65	-54.90	2.65	-5.40	-13.00	-44.65
2539.80	H	-61.03	-58.44	3.64	-6.24	-13.00	-48.03
3386.40	H	---	---	---	---	---	---
4233.00	H	---	---	---	---	---	---
5079.60	H	---	---	---	---	---	---
5926.20	H	---	---	---	---	---	---
6772.80	H	---	---	---	---	---	---
7619.40	H	---	---	---	---	---	---
8466.00	H	---	---	---	---	---	---

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
"---" : denotes Noise Floor.

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## 11. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

### 11.1. Standard Applicable:

According to FCC §2.1055(a) (1)

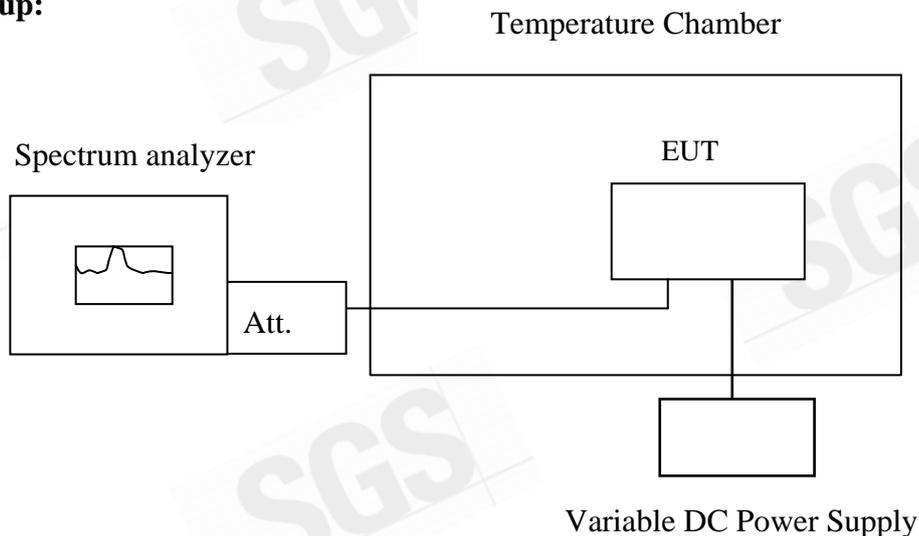
Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

According to RSS-133 §6.3, RSS-132 §4.3

The carrier frequency shall not depart from the reference frequency in excess of  $\pm 2.5$  ppm for mobile stations

### 11.2. Test Set-up:



**Note :** Measurement setup for testing on Antenna connector

### 11.3. Measurement Procedure:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25oC operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30oC. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10oC increased per stage until the highest temperature of +50oC reached.

### 11.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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### 11.5. Measurement Result:

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.7	-30	836.599987	4.00	2091
3.7	-20	836.599989	2.00	2091
3.7	-10	836.599991	0.00	2091
3.7	0	836.599992	-1.00	2091
3.7	10	836.599990	1.00	2091
3.7	20	836.599991	0.00	2091
3.7	30	836.599990	1.00	2091
3.7	40	836.599992	-1.00	2091
3.7	50	836.599988	3.00	2091

Reference Frequency: GPRS 1900Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.7	-30	1879.999986	4.00	4700
3.7	-20	1879.999988	2.00	4700
3.7	-10	1879.999989	1.00	4700
3.7	0	1879.999987	3.00	4700
3.7	10	1879.999988	2.00	4700
3.7	20	1879.999990	0.00	4700
3.7	30	1879.999991	-1.00	4700
3.7	40	1879.999988	2.00	4700
3.7	50	1879.999985	5.00	4700

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Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.7	-30	1879.999983	6.00	4700
3.7	-20	1879.999988	1.00	4700
3.7	-10	1879.999987	2.00	4700
3.7	0	1879.999990	-1.00	4700
3.7	10	1879.999988	1.00	4700
3.7	20	1879.999989	0.00	4700
3.7	30	1879.999987	2.00	4700
3.7	40	1879.999985	4.00	4700
3.7	50	1879.999986	3.00	4700

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
3.7	-30	836.599984	7.00	2091
3.7	-20	836.599986	5.00	2091
3.7	-10	836.599988	3.00	2091
3.7	0	836.599987	4.00	2091
3.7	10	836.599990	1.00	2091
3.7	20	836.599991	0.00	2091
3.7	30	836.599988	3.00	2091
3.7	40	836.599990	1.00	2091
3.7	50	836.599987	4.00	2091

**Note: The battery is rated 3.7V dc.**

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## 12. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

### 12.1. Standard Applicable:

According to FCC §2.1055(a) (1)

Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

According to RSS-133 §6.3, RSS-132 §4.3

The carrier frequency shall not depart from the reference frequency in excess of  $\pm 2.5$  ppm for mobile stations.

### 12.2. Test Set-up:

Refer to section 11.2 in this report

### 12.3. Measurement Procedure:

Set chamber temperature to 25 . Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.

### 12.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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### 12.5. Measurement Result:

Reference Frequency: GSM 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.2	25.00	836.599988	5.00	2091.00
3.7	25.00	836.599993	0.00	2091.00
3.3	25.00	836.599989	4.00	2091.00
3.2 (End Point)	25.00	836.599995	-2.00	2091.00

Reference Frequency: GSM 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.2	25	1879.999996	-2.00	4700
3.7	25	1879.999994	0.00	4700
3.3	25	1879.999997	-3.00	4700
3.2 (End Point)	25	1879.999995	-1.00	4700

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Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.2	25	1879.999997	-4.00	4700
3.7	25	1879.999993	0.00	4700
3.3	25	1879.999998	-5.00	4700
3.2 (End Point)	25	1879.999996	-3.00	4700

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ( )	(MHz)		
4.2	25.00	836.599990	5.00	2091.00
3.7	25.00	836.599995	0.00	2091.00
3.3	25.00	836.599992	3.00	2091.00
3.2 (End Point)	25.00	836.599997	-2.00	2091.00

**Note: The battery is rated 3.7V dc.**

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## APPENDIX 1

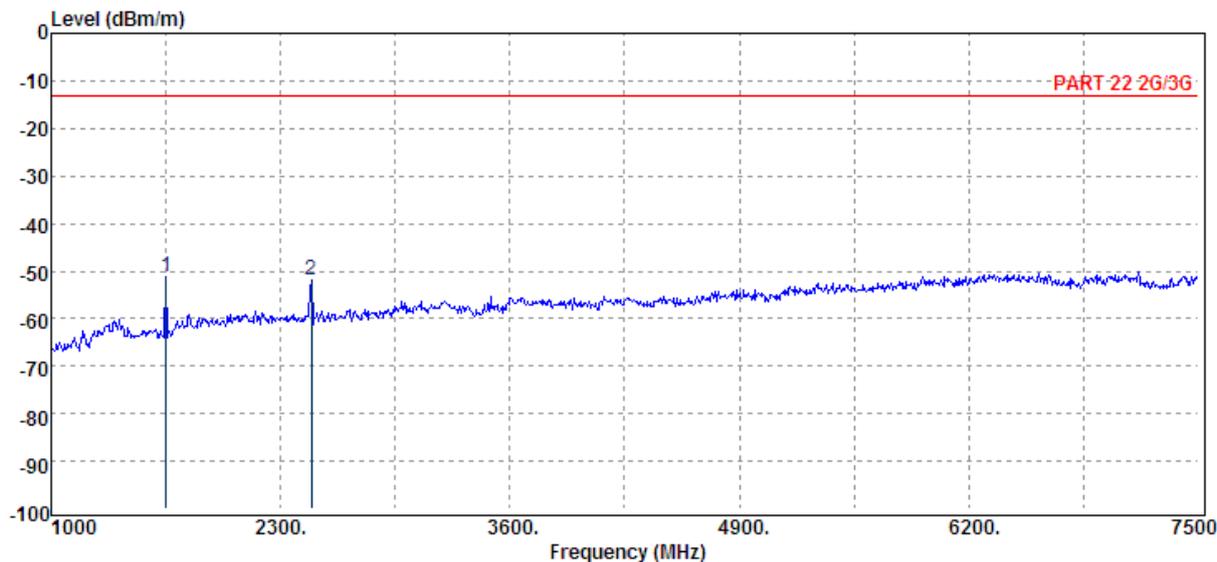
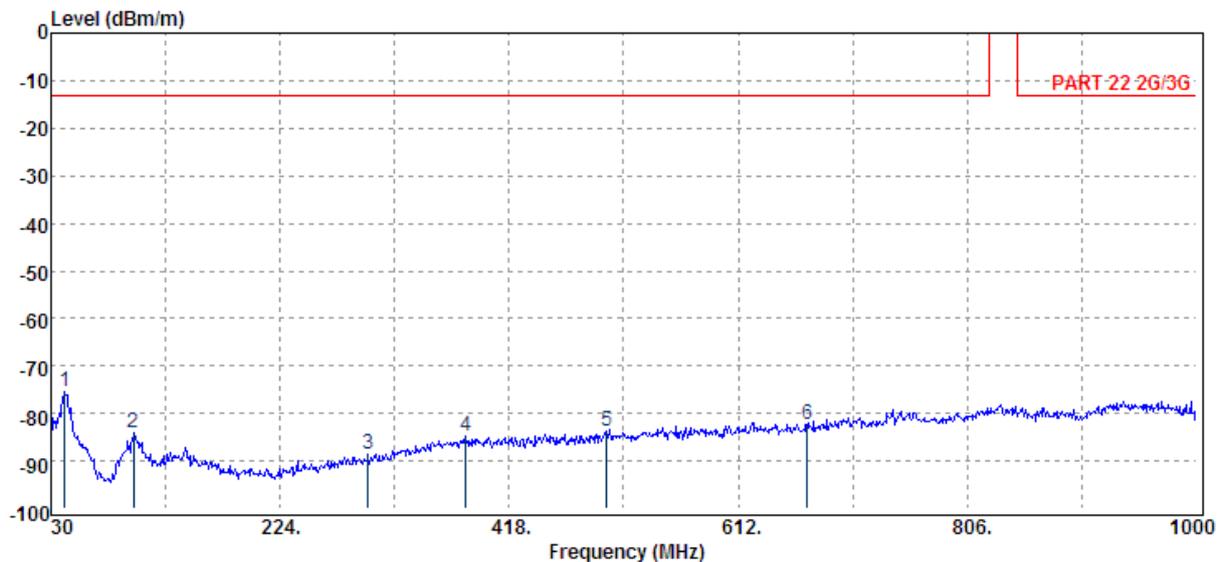
# MEASUREMENT PLOT OF RADIATED SPURIOUS EMISSION

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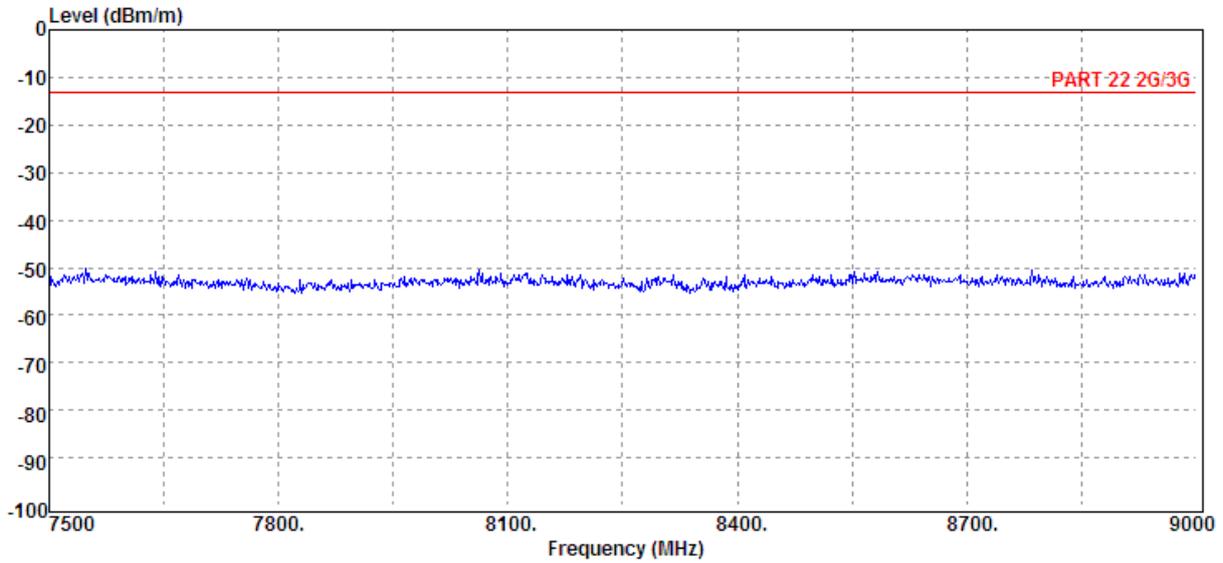
## Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Band	:GPRS 850	Test Date	:2012-05-19
ARFCN	:CH 128	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Jay
Operation Mode	:TX		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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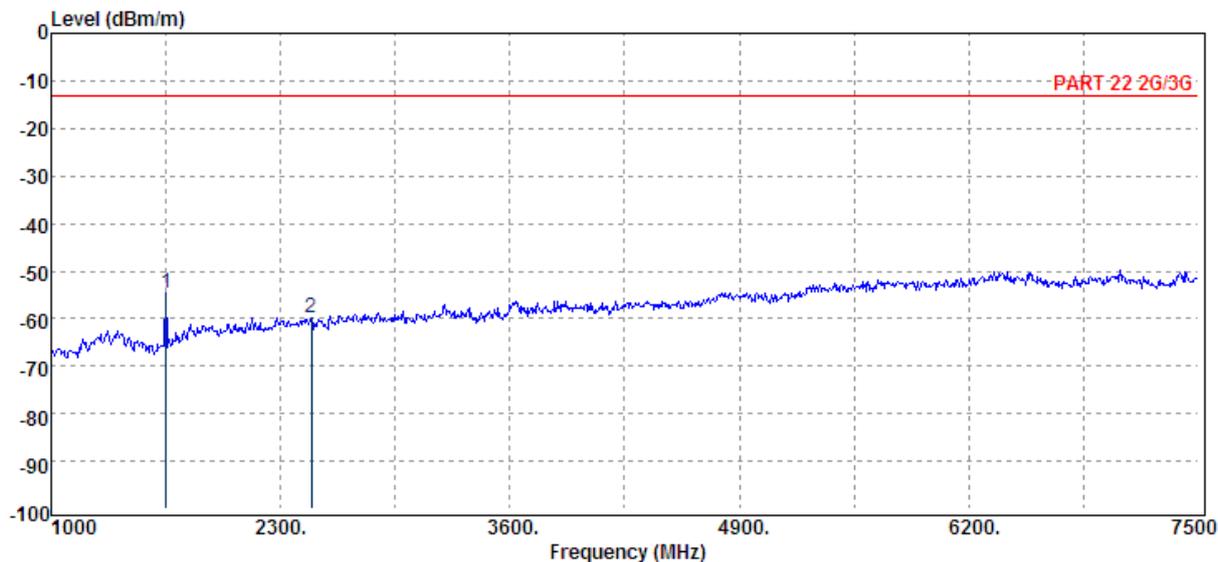
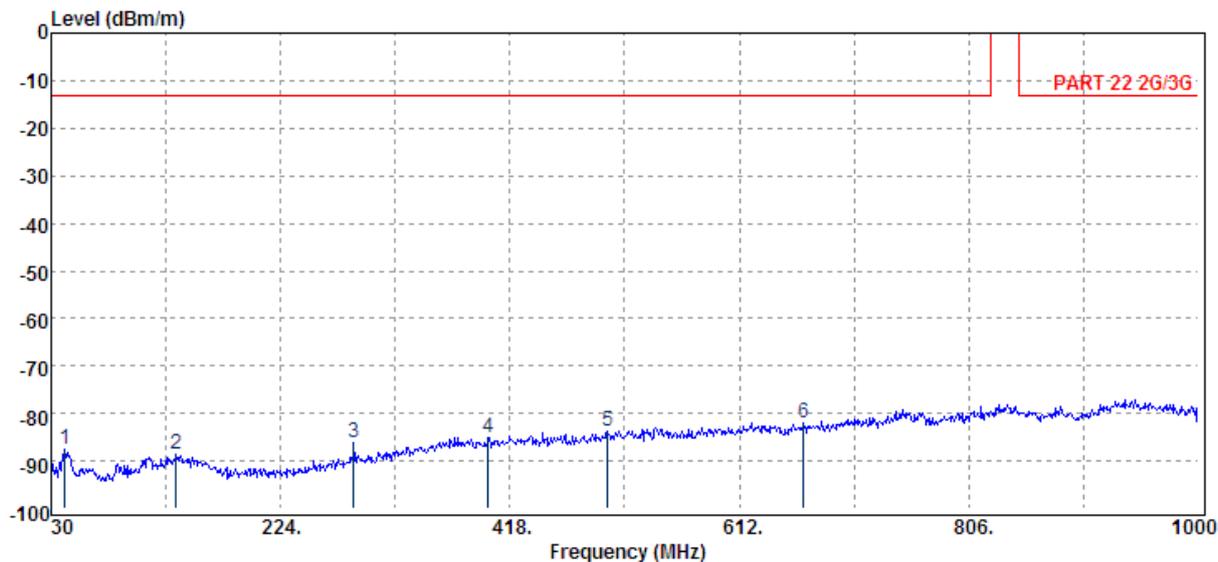
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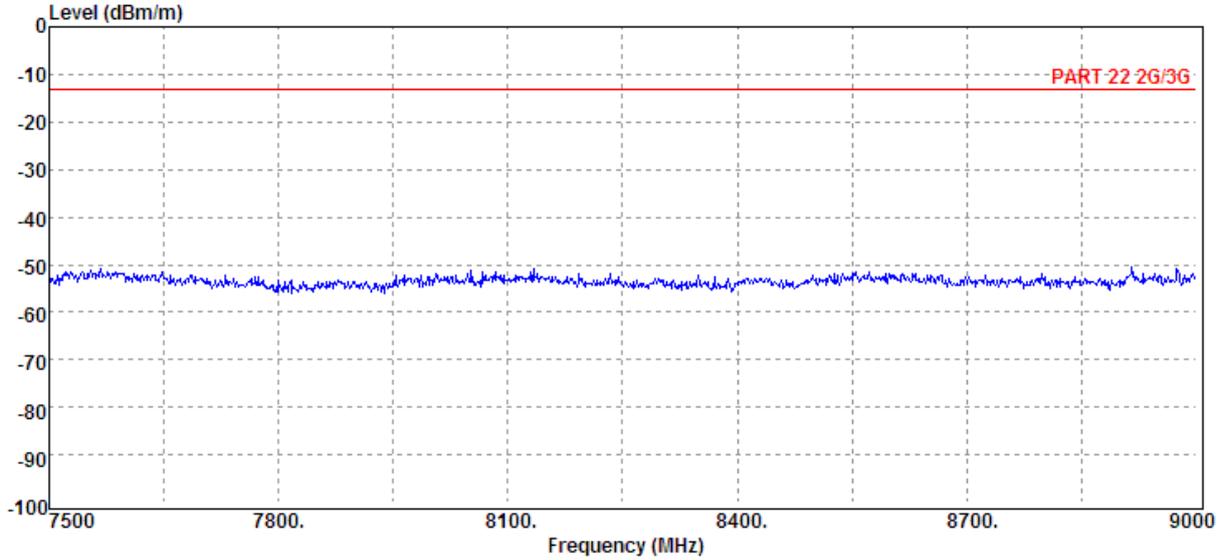
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Operation Band	:GPRS 850	Test Date	:2012-05-19
ARFCN	:CH 128	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Jay
Operation Mode	:TX		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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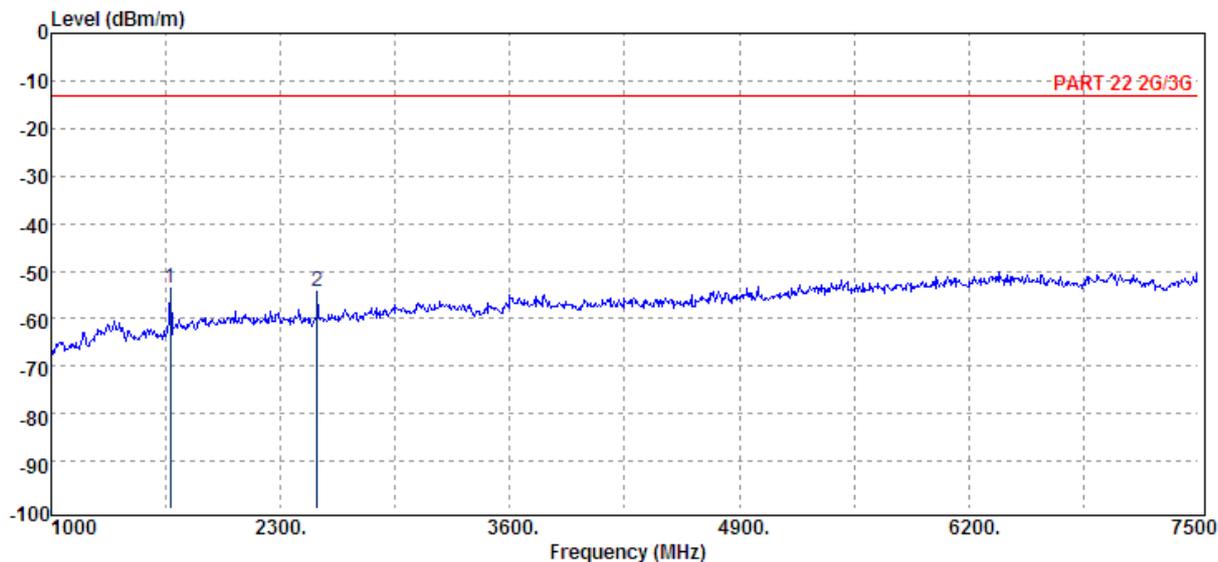
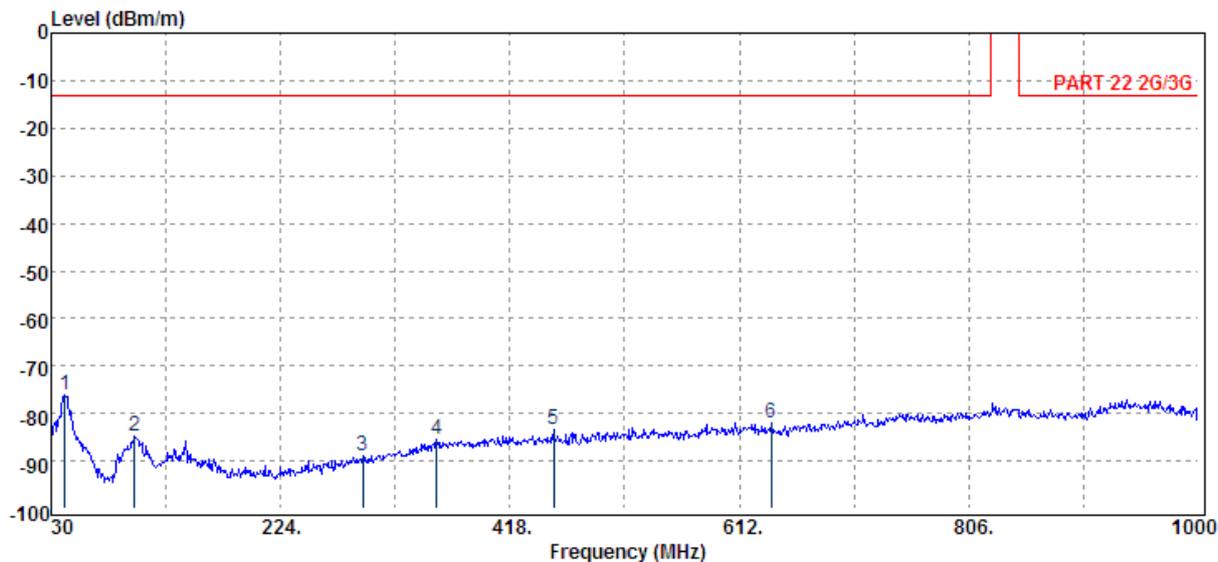
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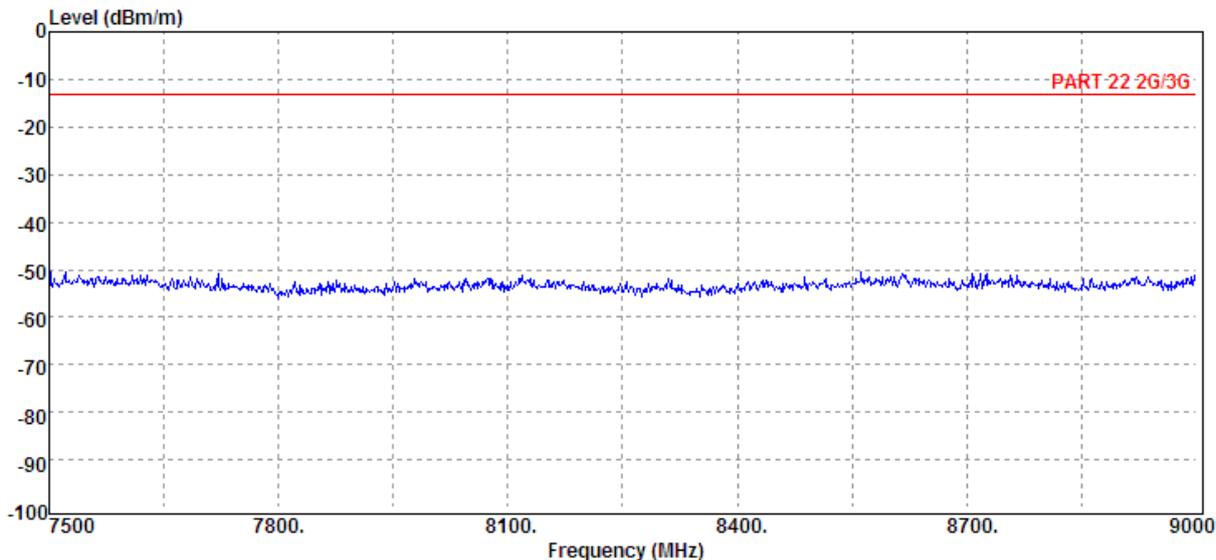
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Operation Band	:GPRS 850	Test Date	:2012-05-19
ARFCN	:CH 190	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Jay
Operation Mode	:TX		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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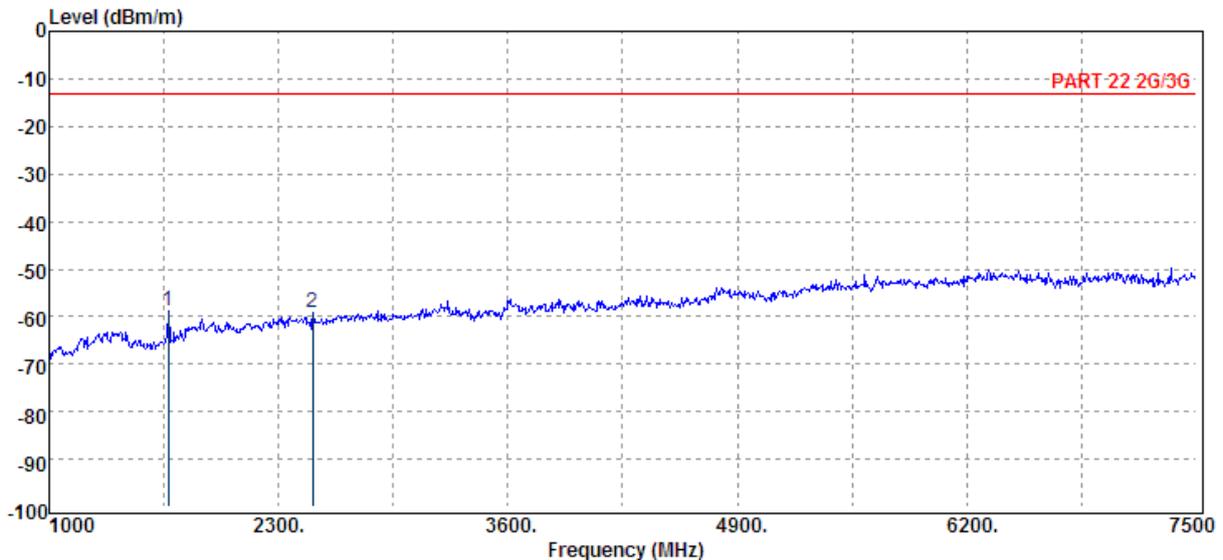
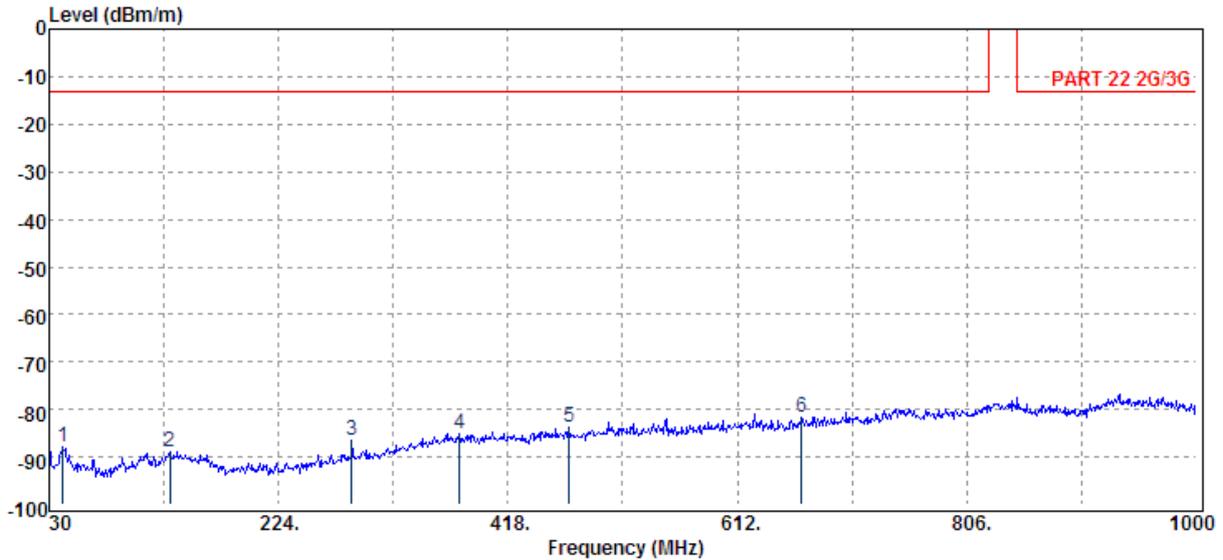
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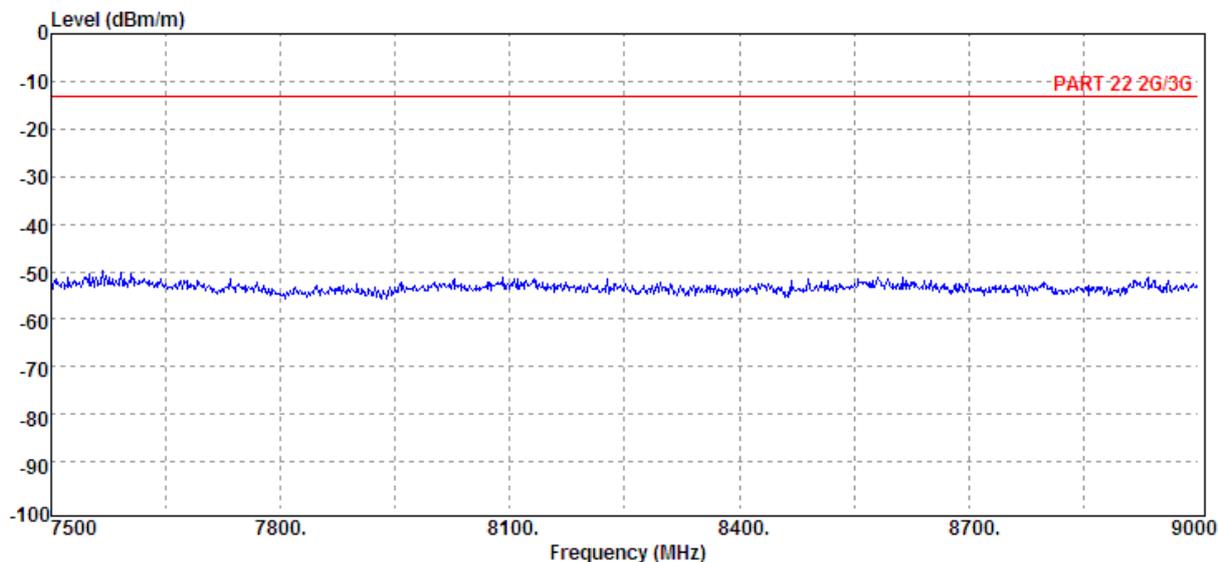
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Operation Band	:GPRS 850	Test Date	:2012-05-19
ARFCN	:CH 190	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Jay
Operation Mode	:TX		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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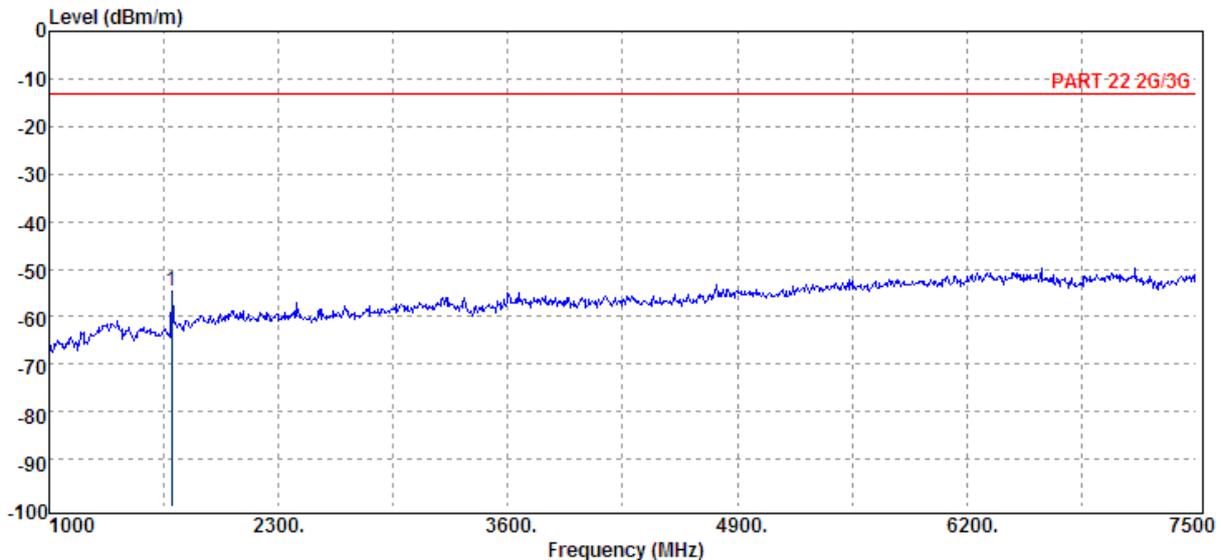
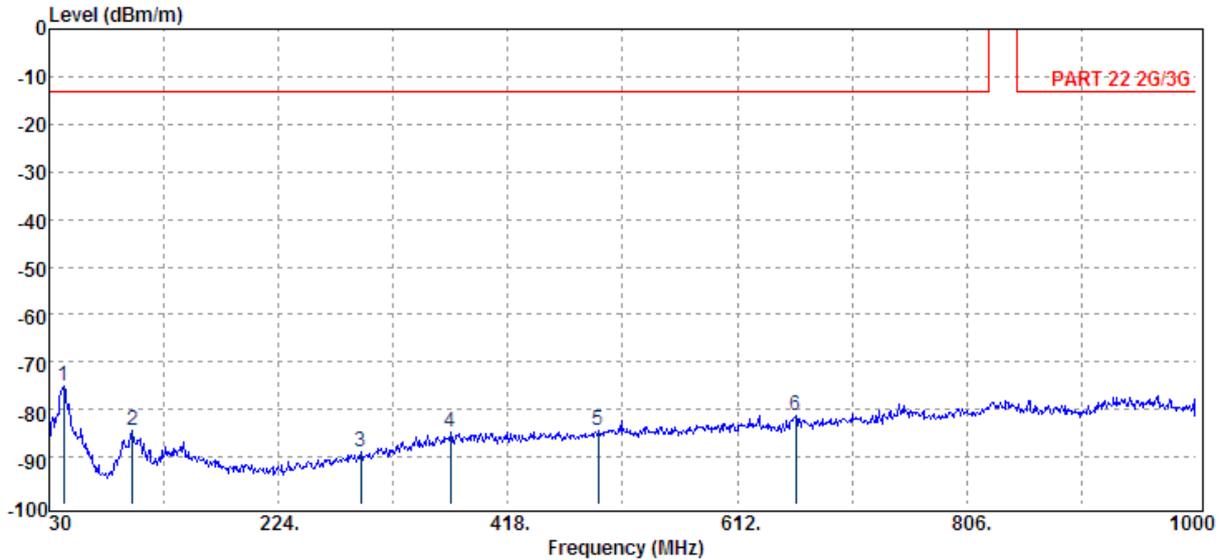
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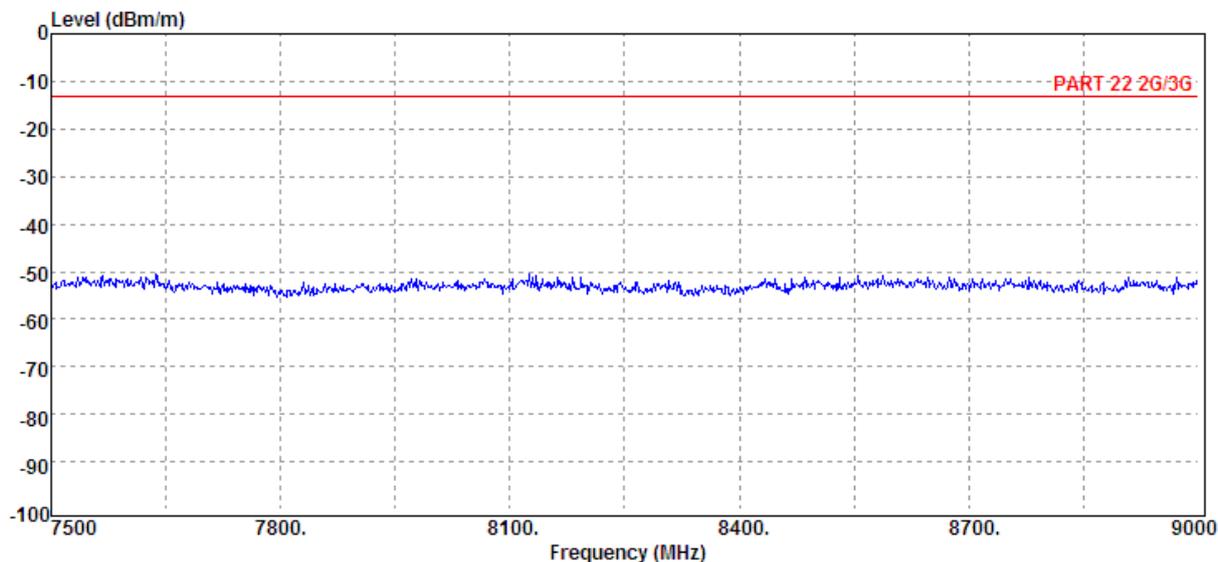
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Operation Band	:GPRS 850	Test Date	:2012-05-19
ARFCN	:CH 251	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Jay
Operation Mode	:TX		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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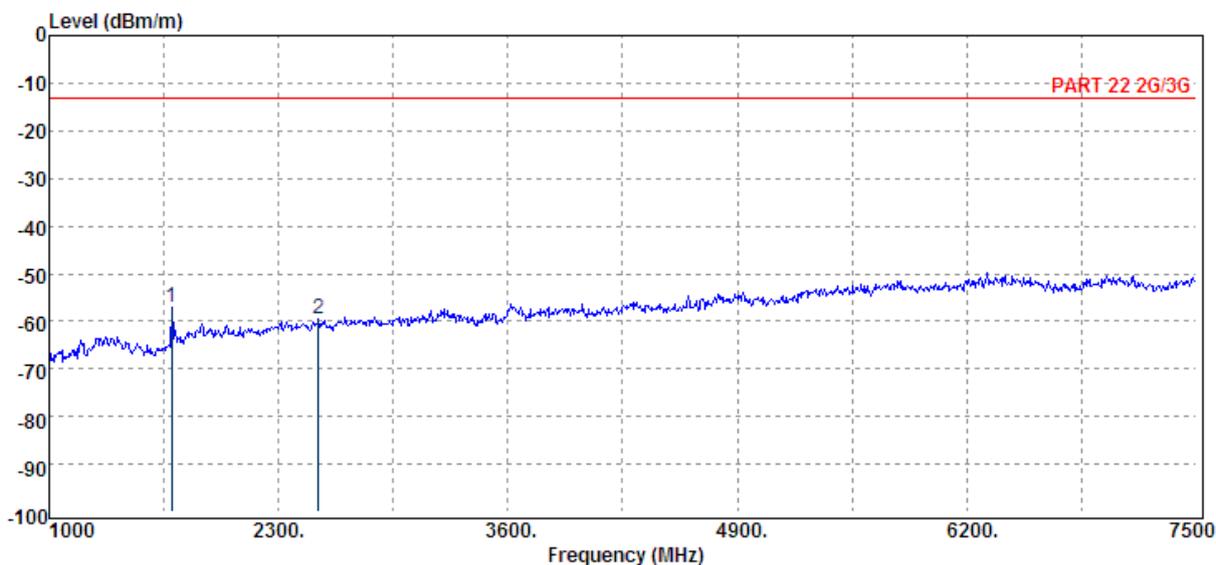
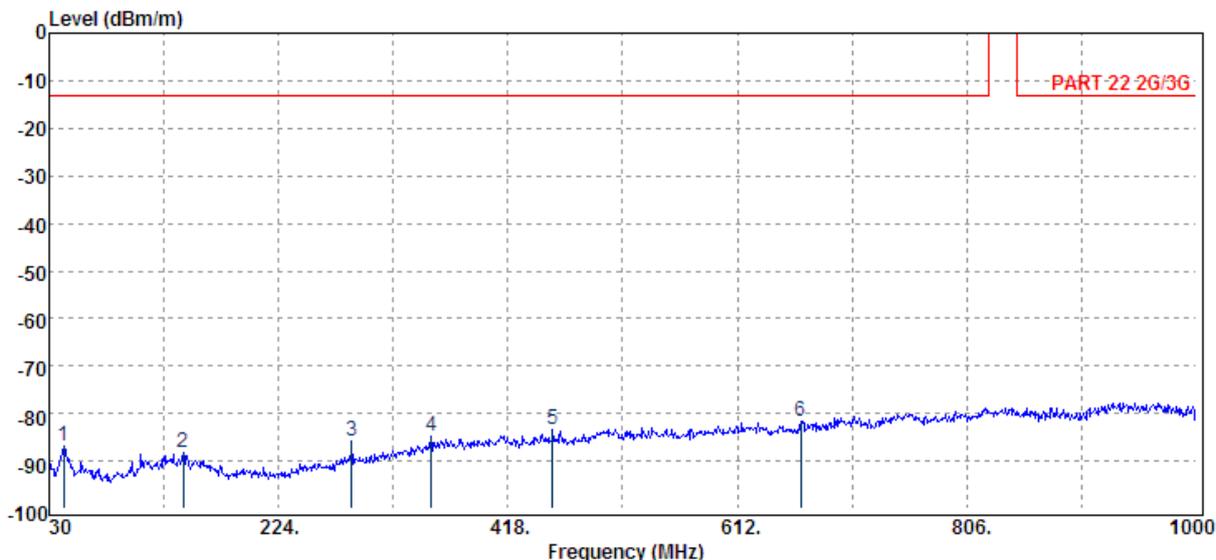
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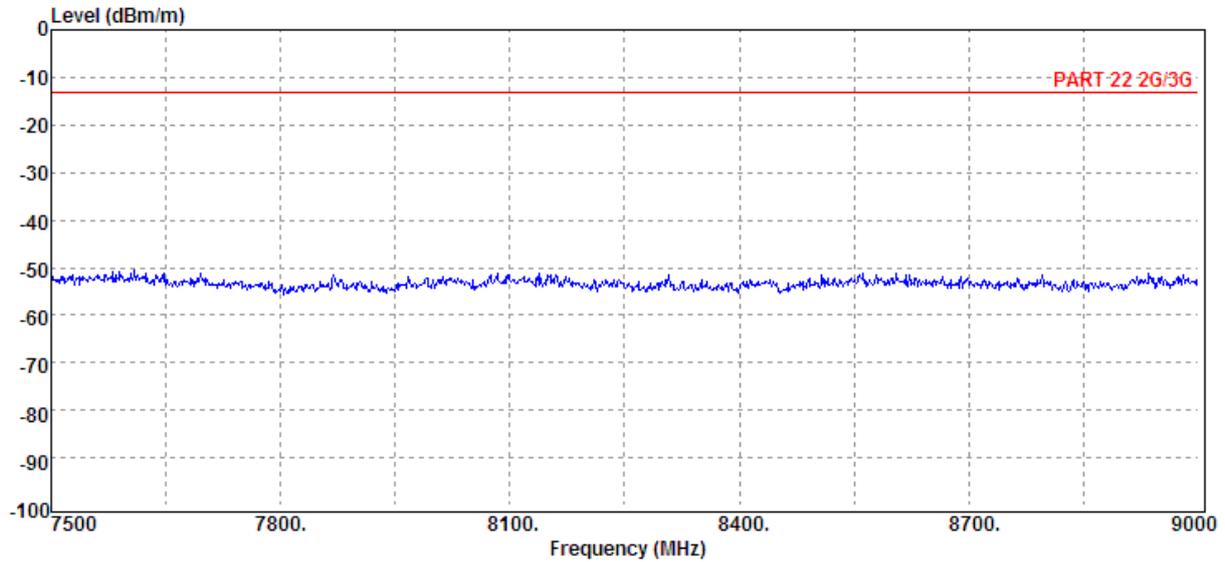
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Operation Band	:GPRS 850	Test Date	:2012-05-19
ARFCN	:CH 251	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Jay
Operation Mode	:TX		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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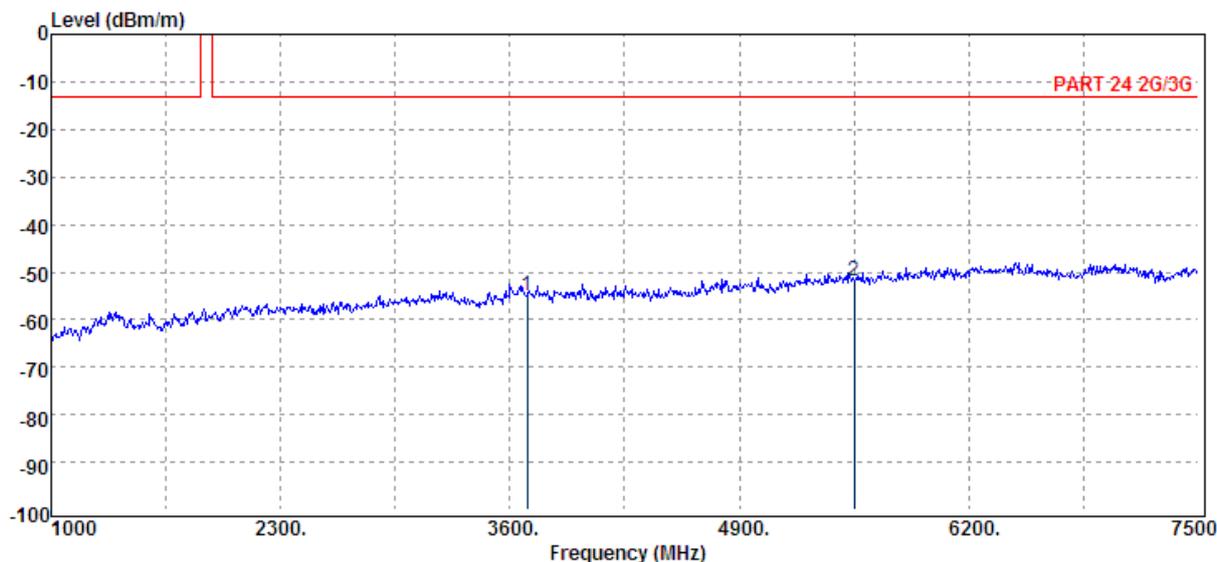
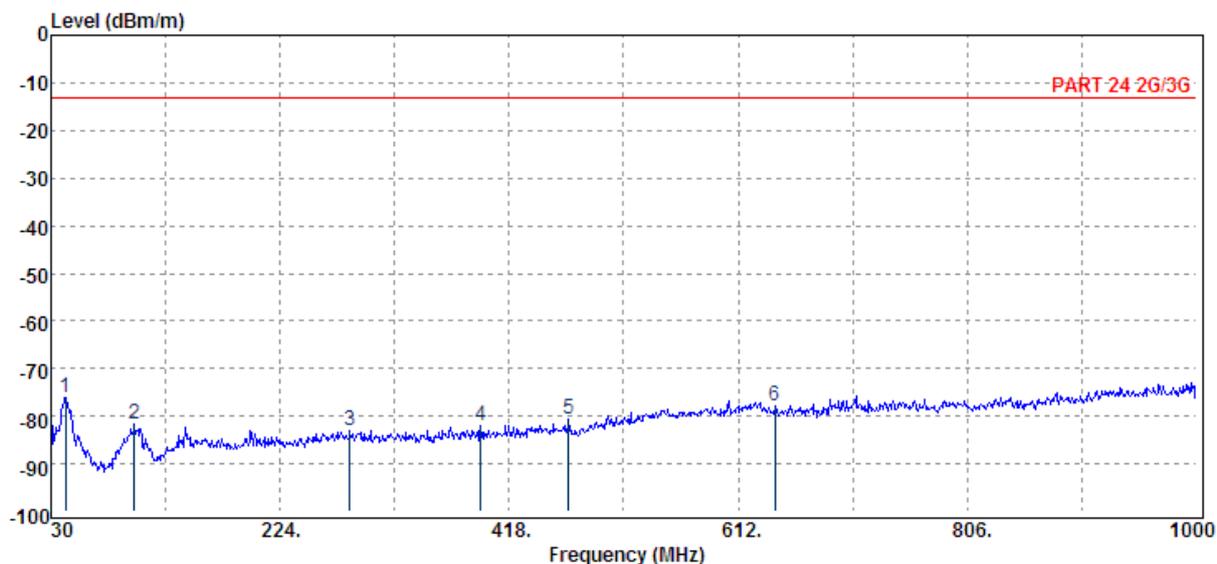


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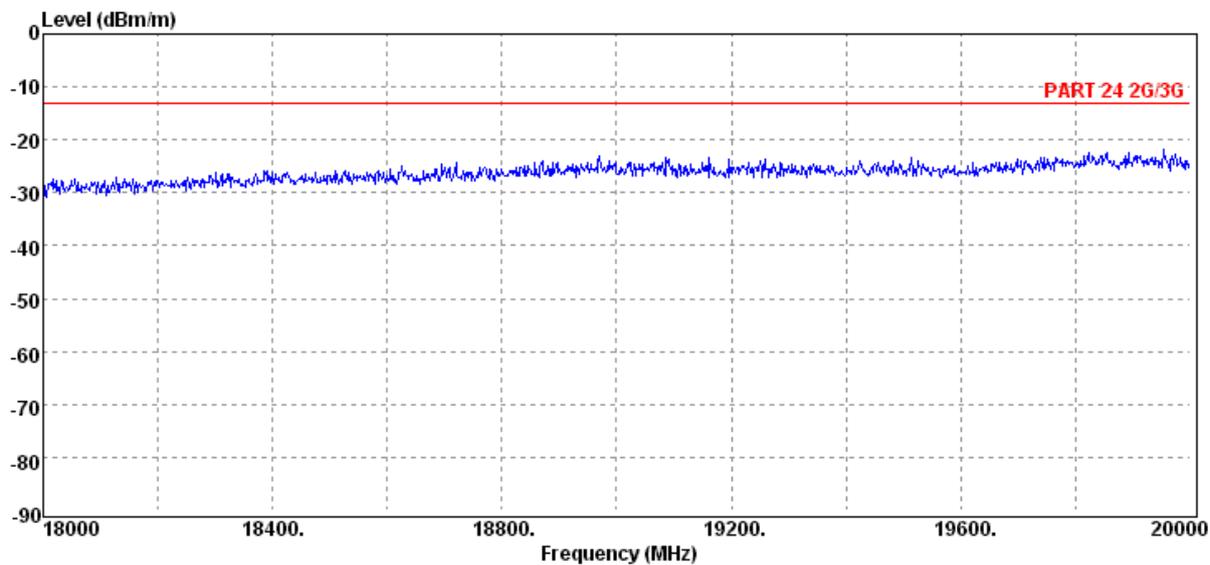
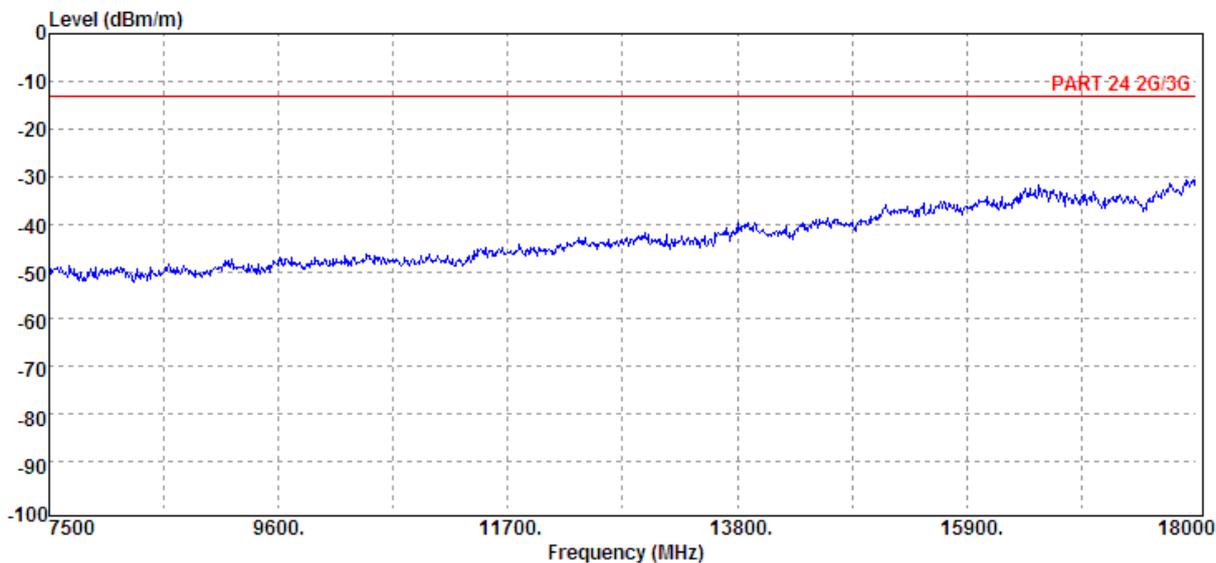
## Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Band	:GSM 1900	Test Date	:2012-05-19
ARFCN	:CH 512	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Jay
Operation Mode	:TX		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL



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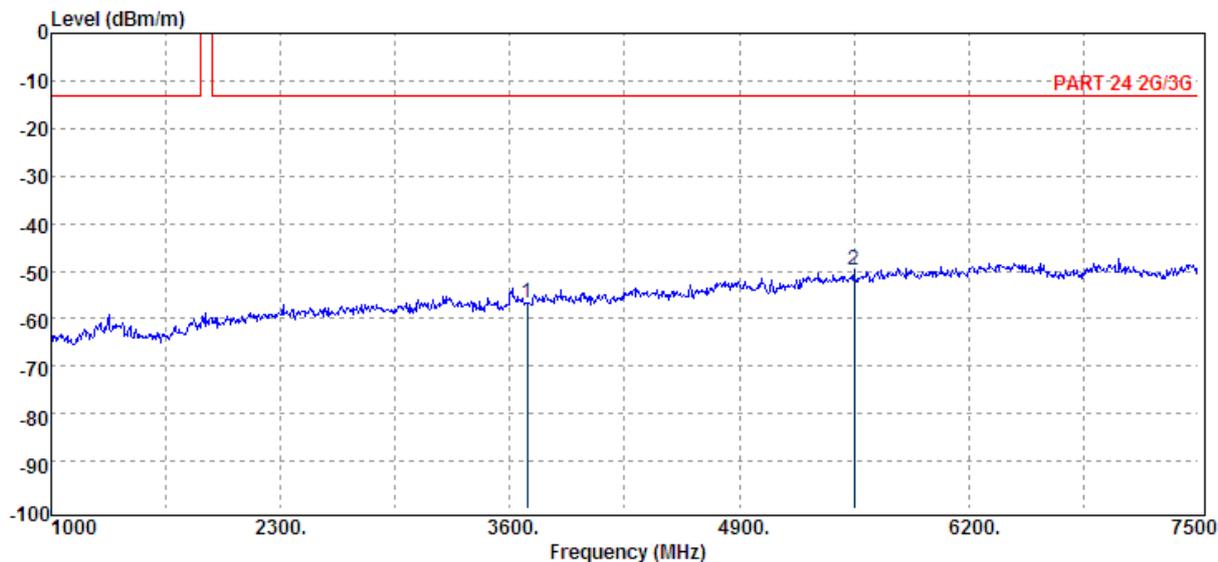
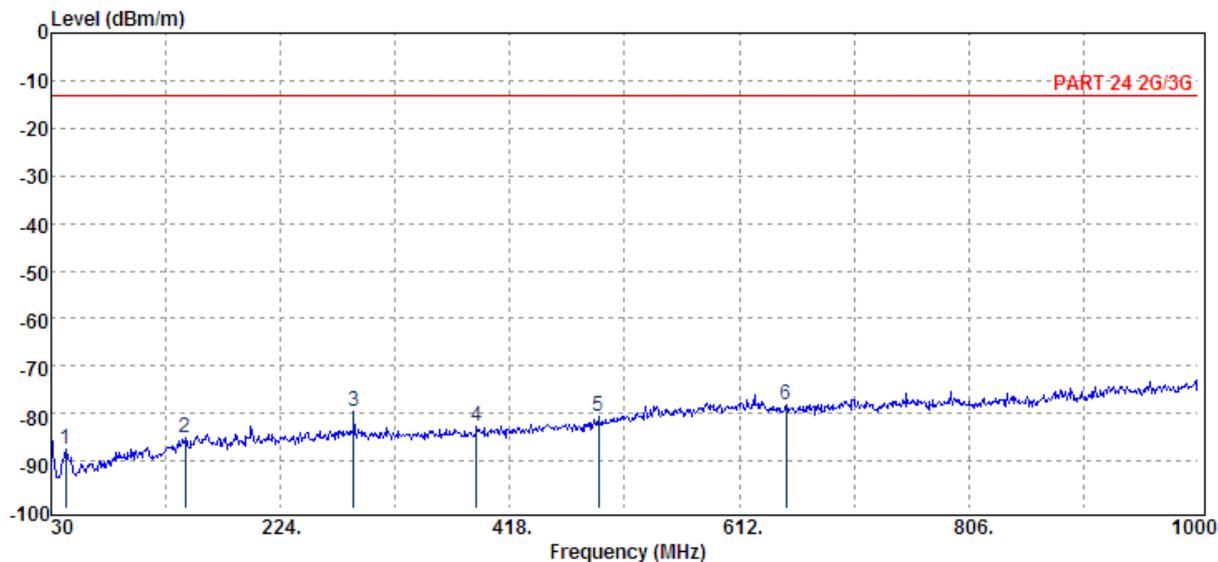
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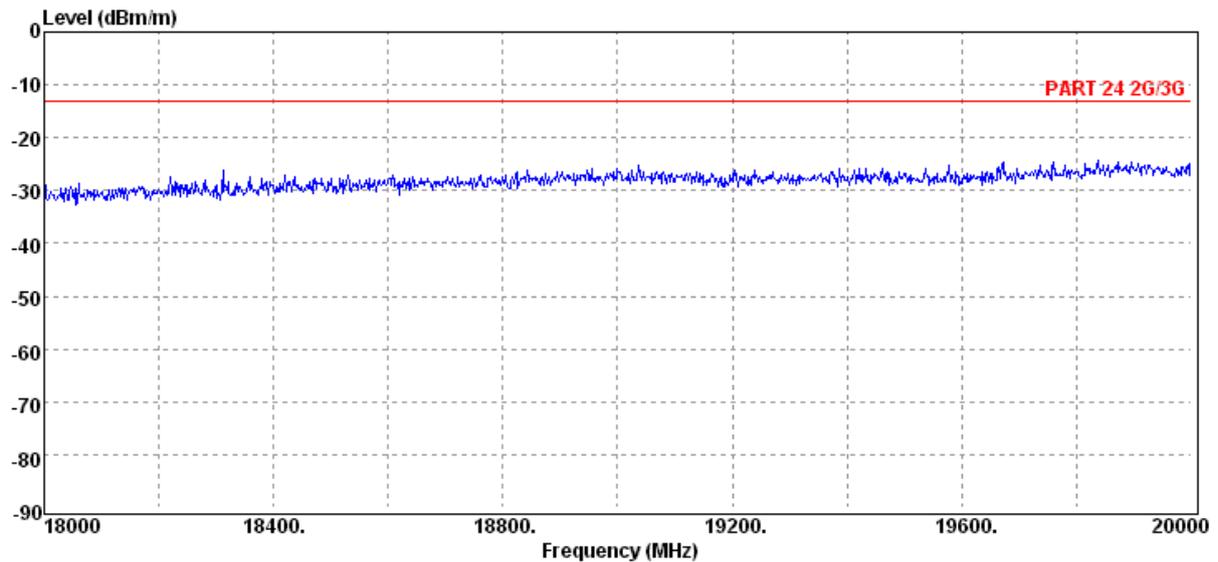
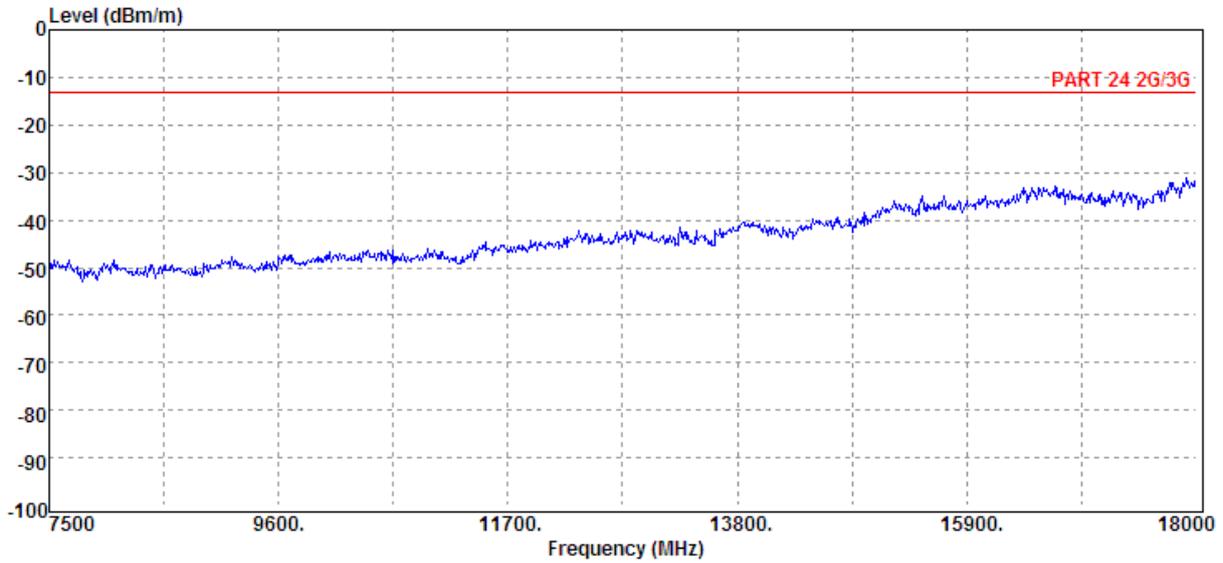
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Operation Band	:GSM 1900	Test Date	:2012-05-19
ARFCN	:CH 512	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Jay
Operation Mode	:TX	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E1 Plan		



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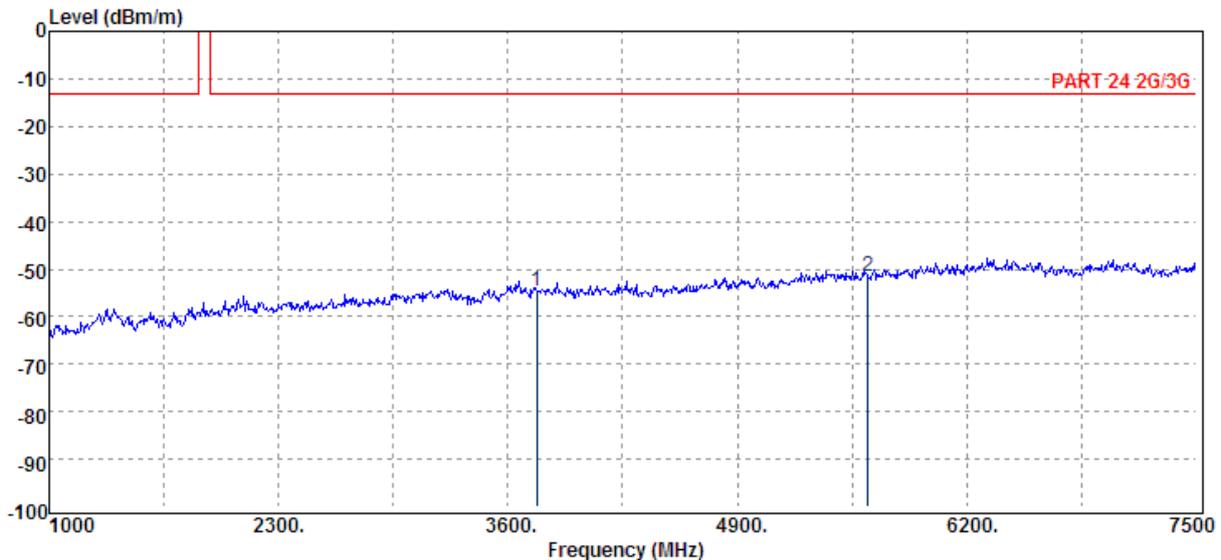
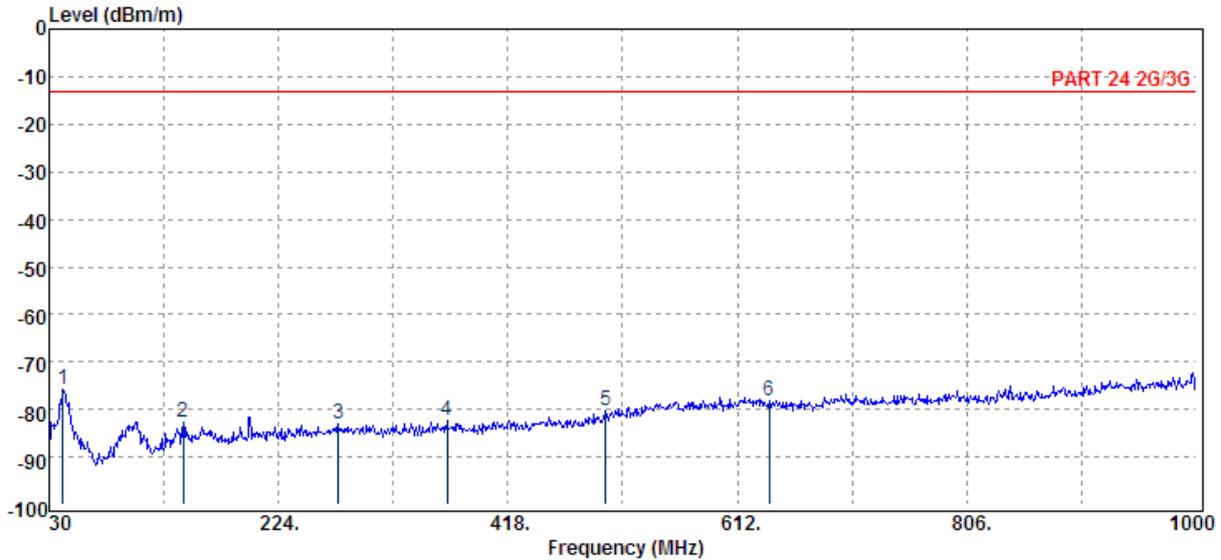
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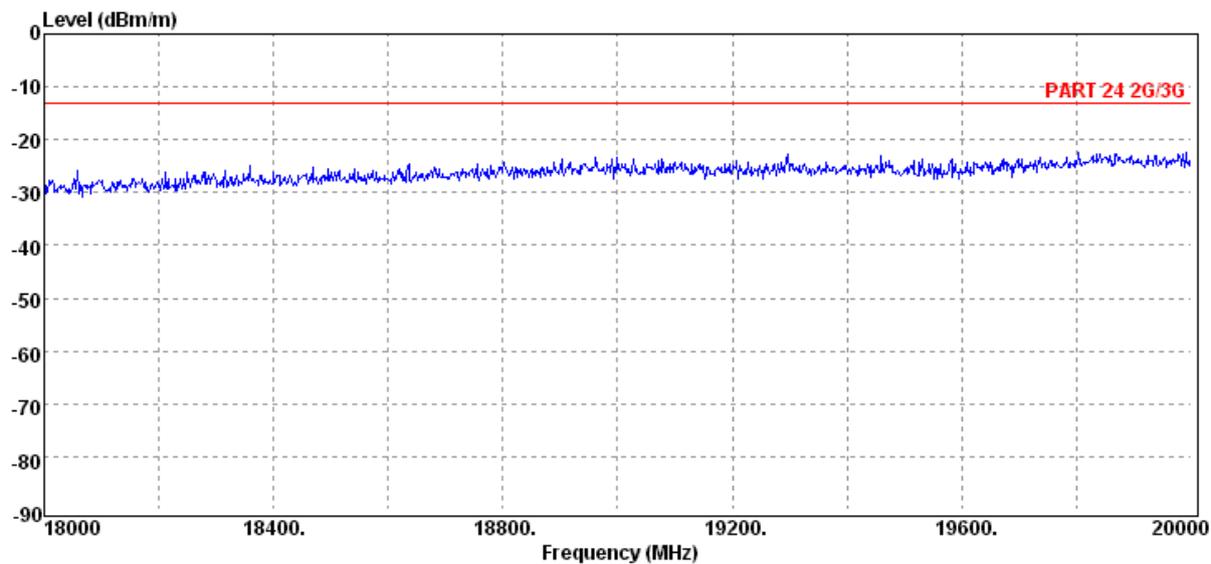
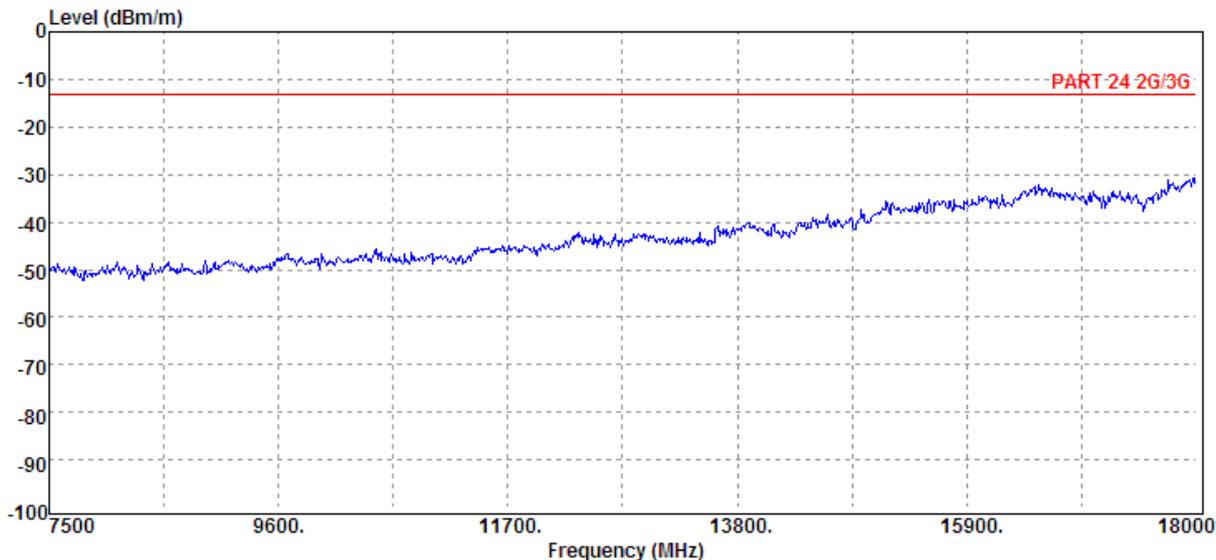
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Operation Band	:GSM 1900	Test Date	:2012-05-19
ARFCN	:CH 661	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Jay
Operation Mode	:TX	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E1 Plan		



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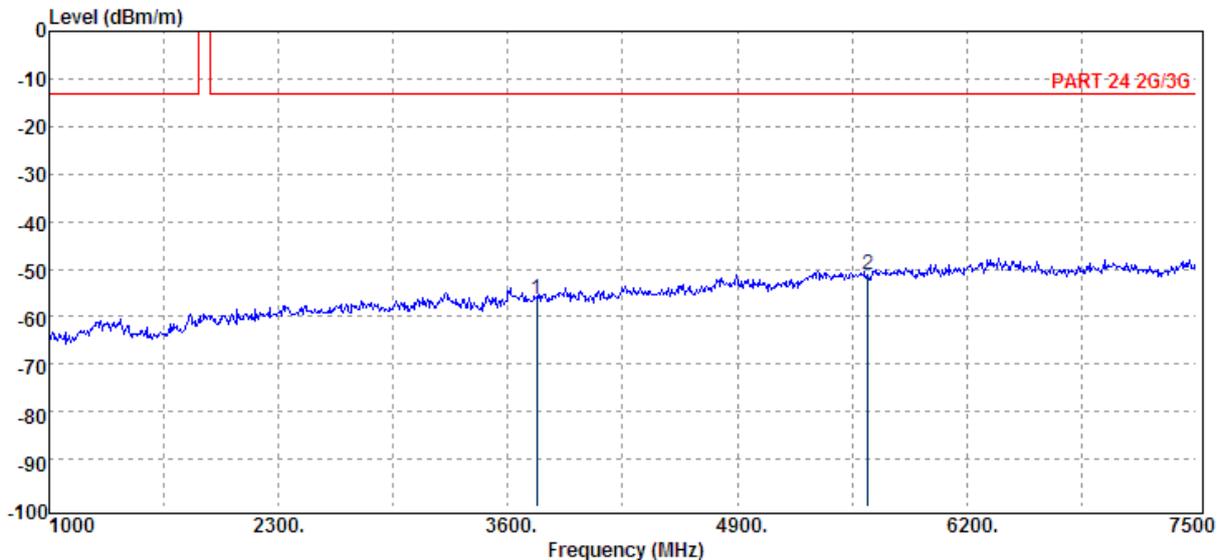
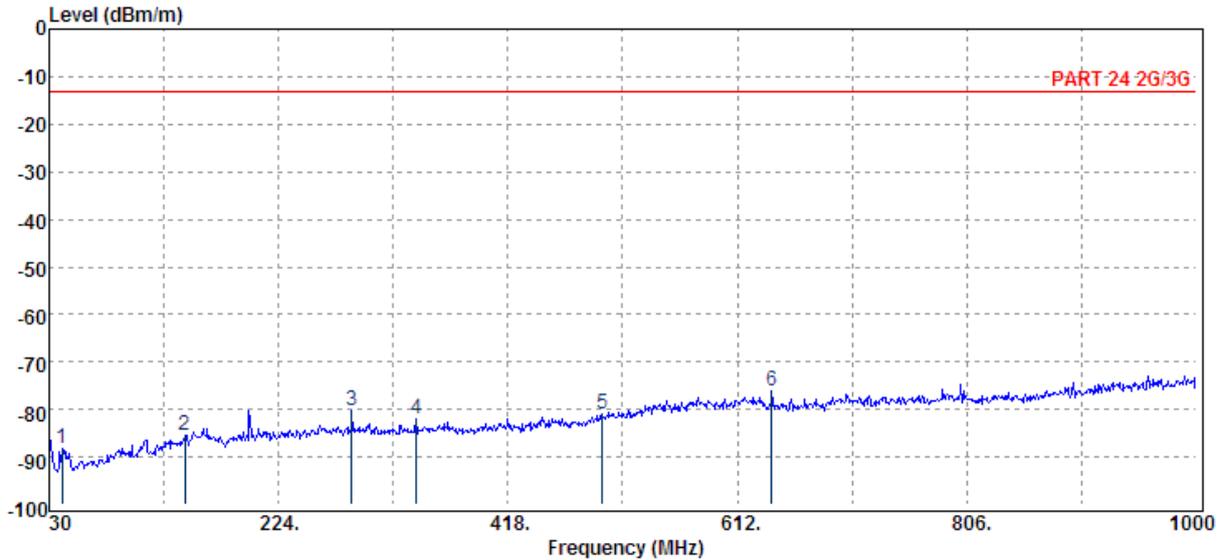
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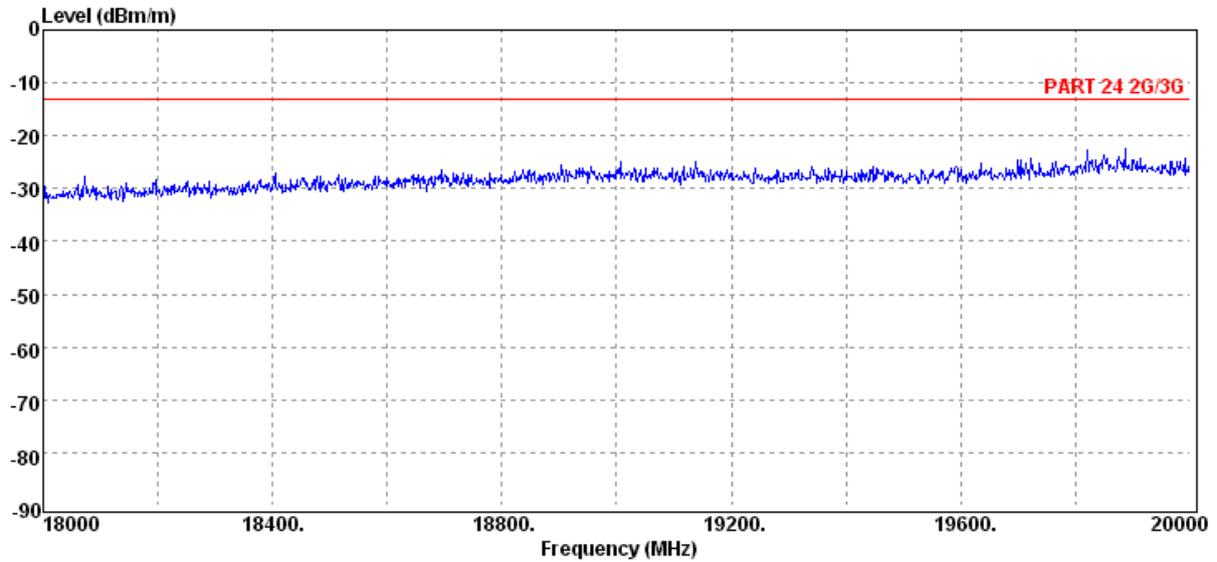
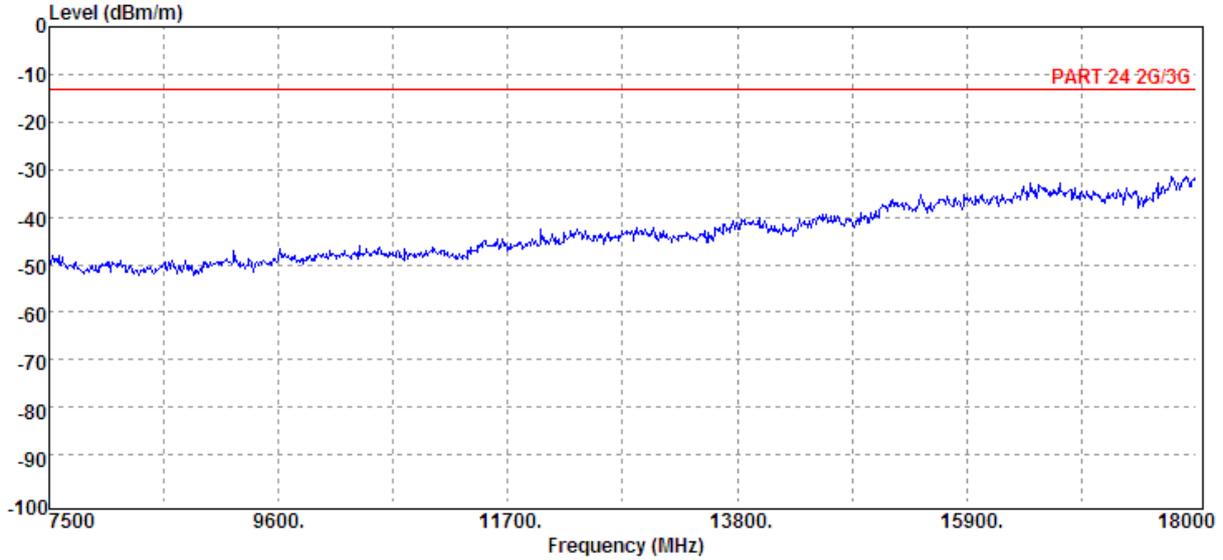
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Operation Band	:GSM 1900	Test Date	:2012-05-19
ARFCN	:CH 661	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Jay
Operation Mode	:TX	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E1 Plan		



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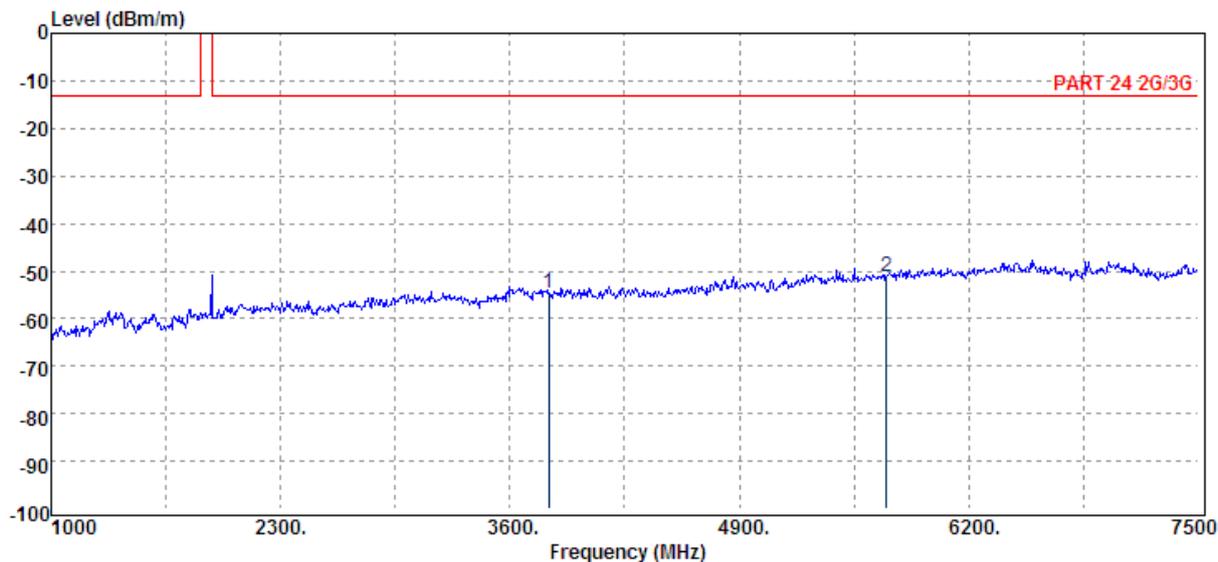
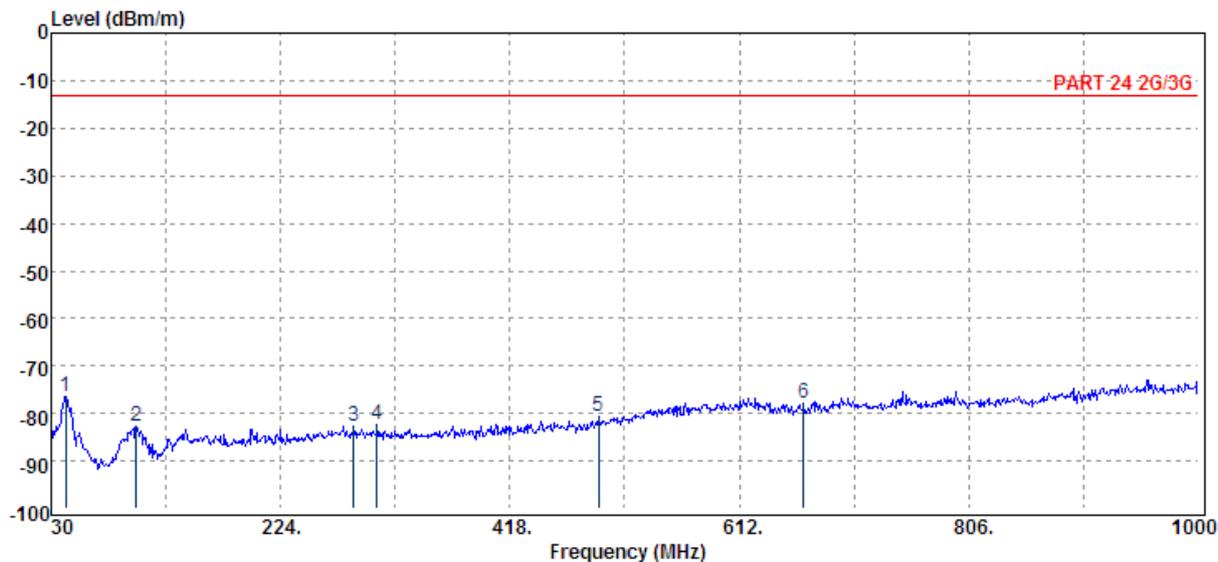
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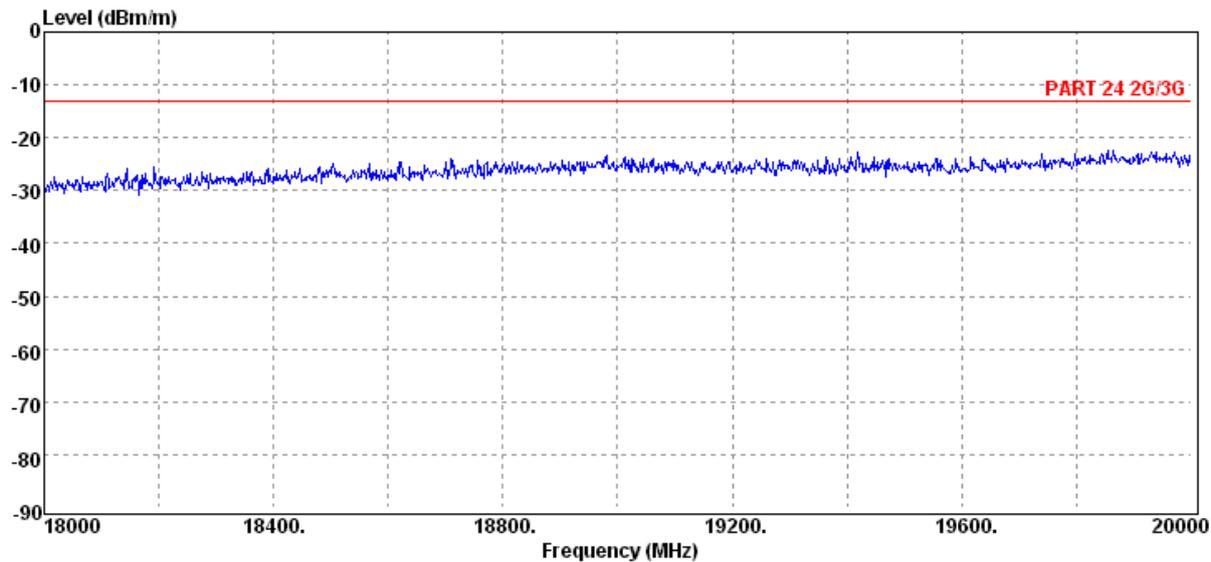
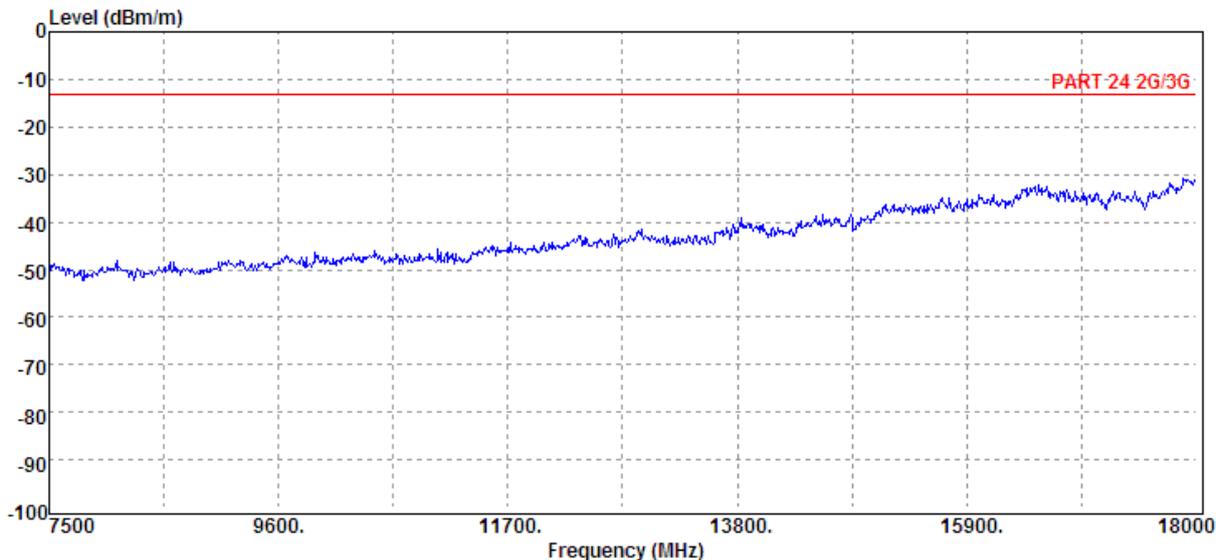
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Operation Band	:GSM 1900	Test Date	:2012-05-19
ARFCN	:CH 810	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Jay
Operation Mode	:TX	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E1 Plan		



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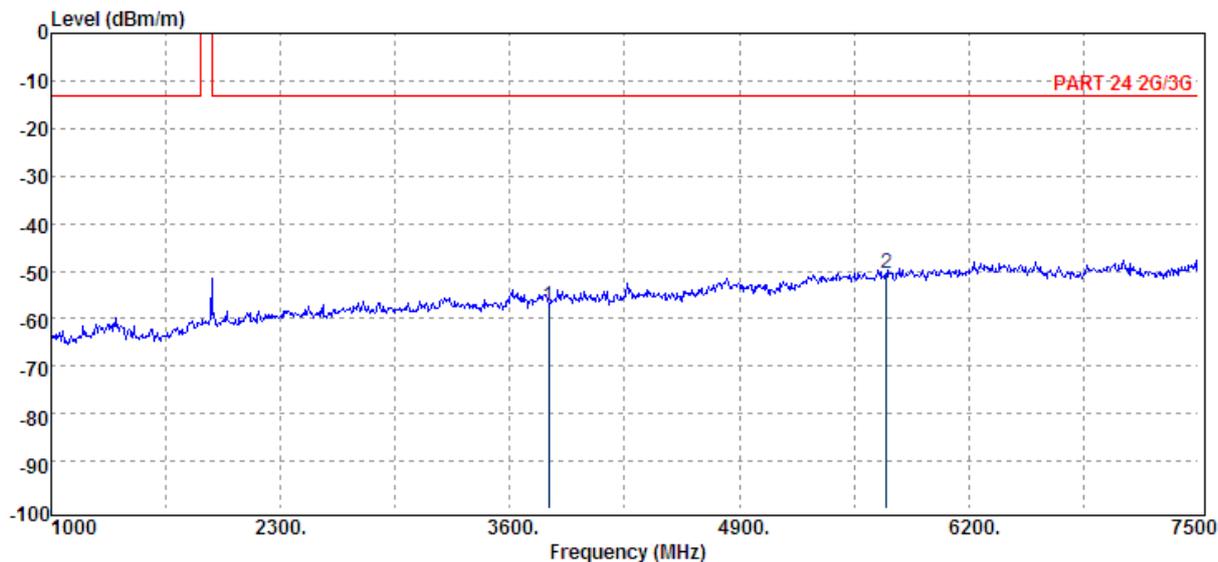
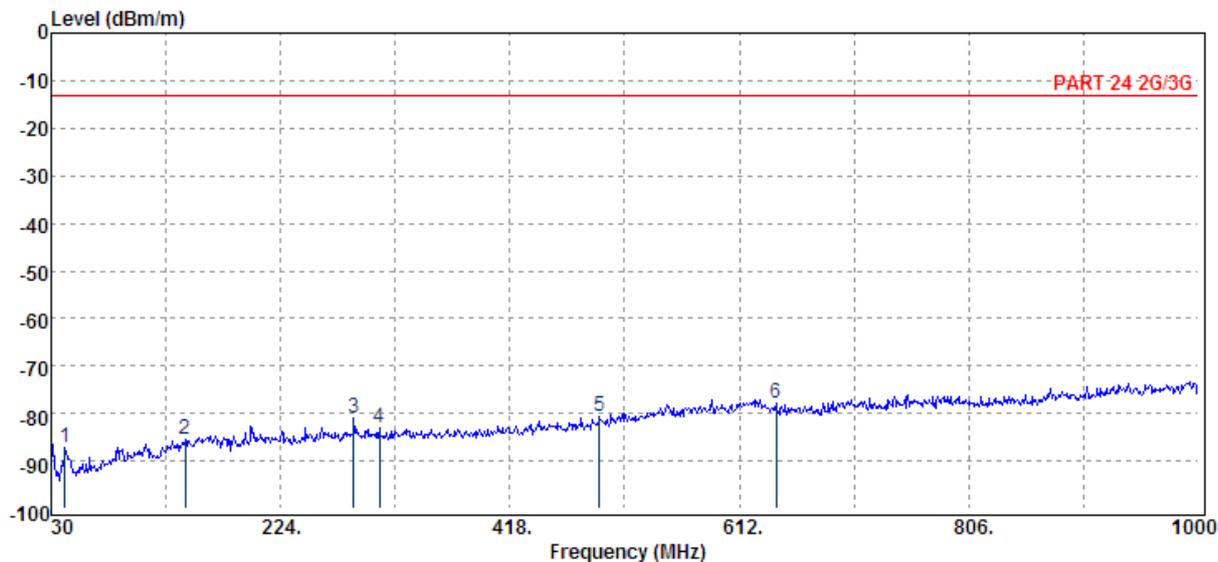
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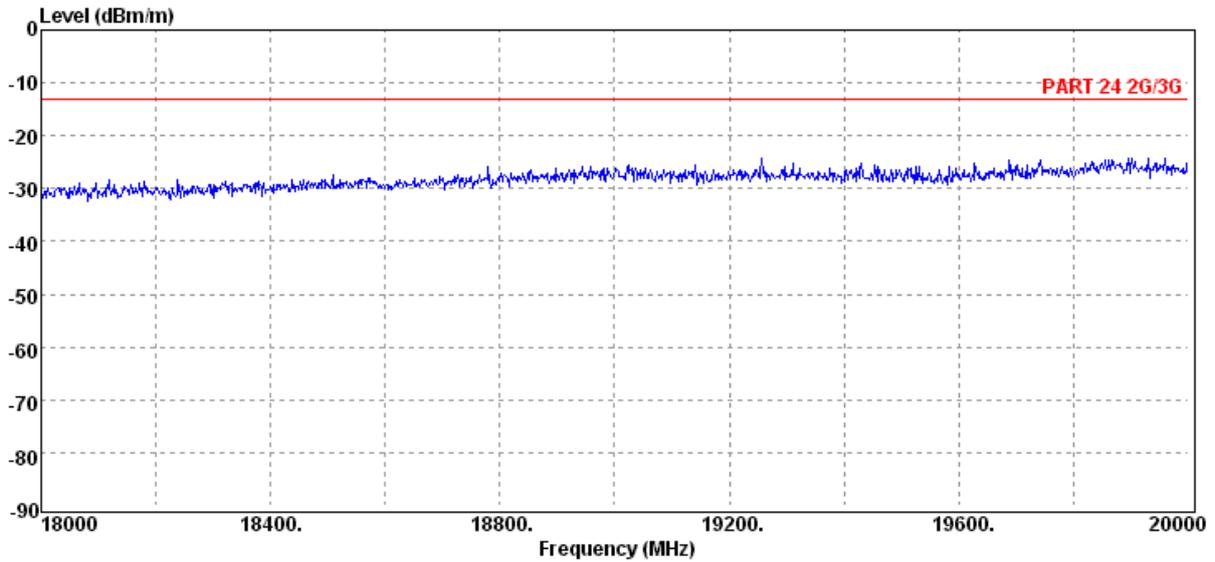
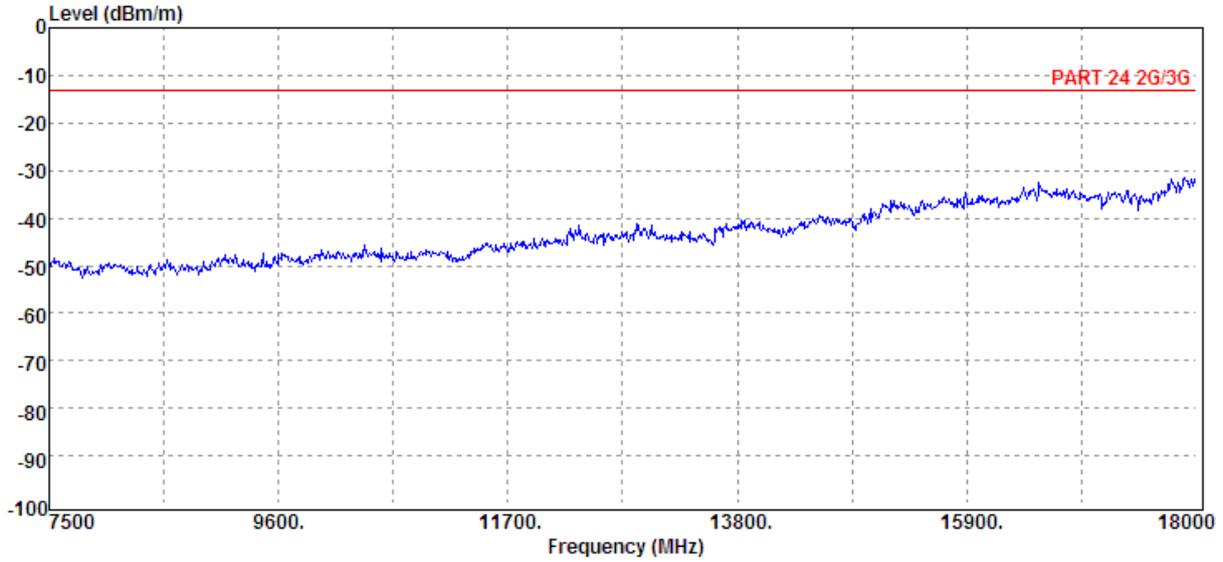
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Operation Band	:GSM 1900	Test Date	:2012-05-19
ARFCN	:CH 810	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Jay
Operation Mode	:TX	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E1 Plan		



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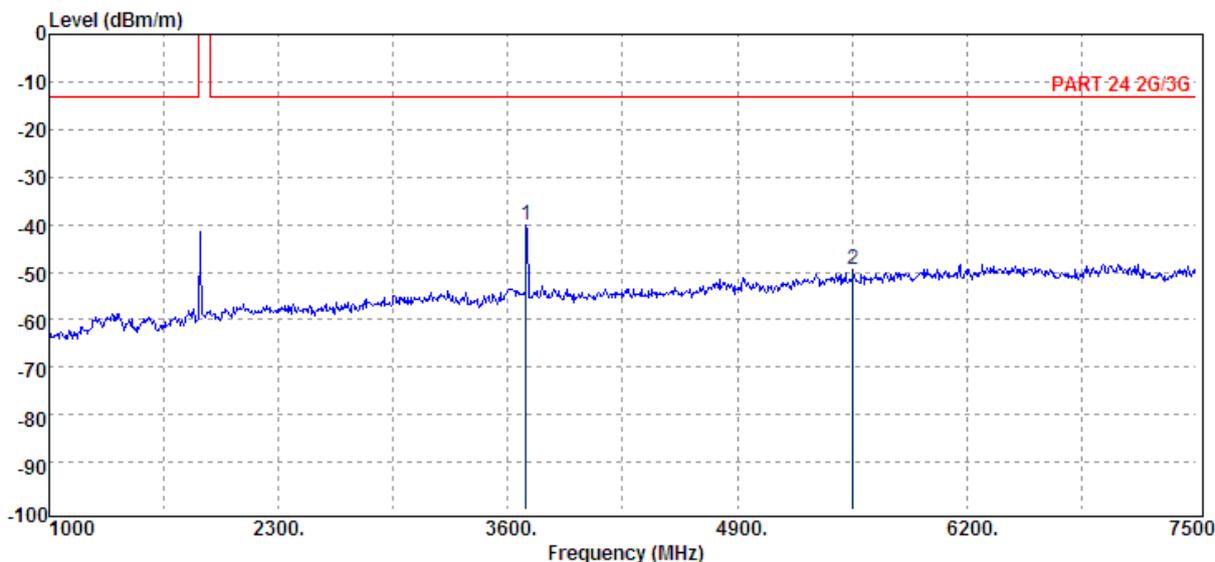
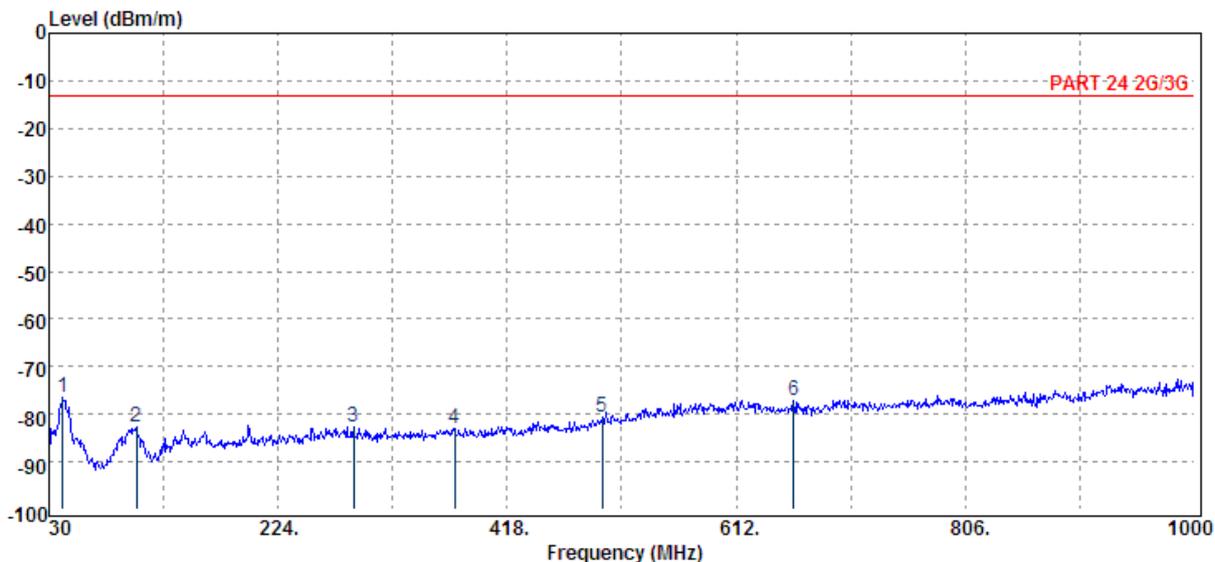


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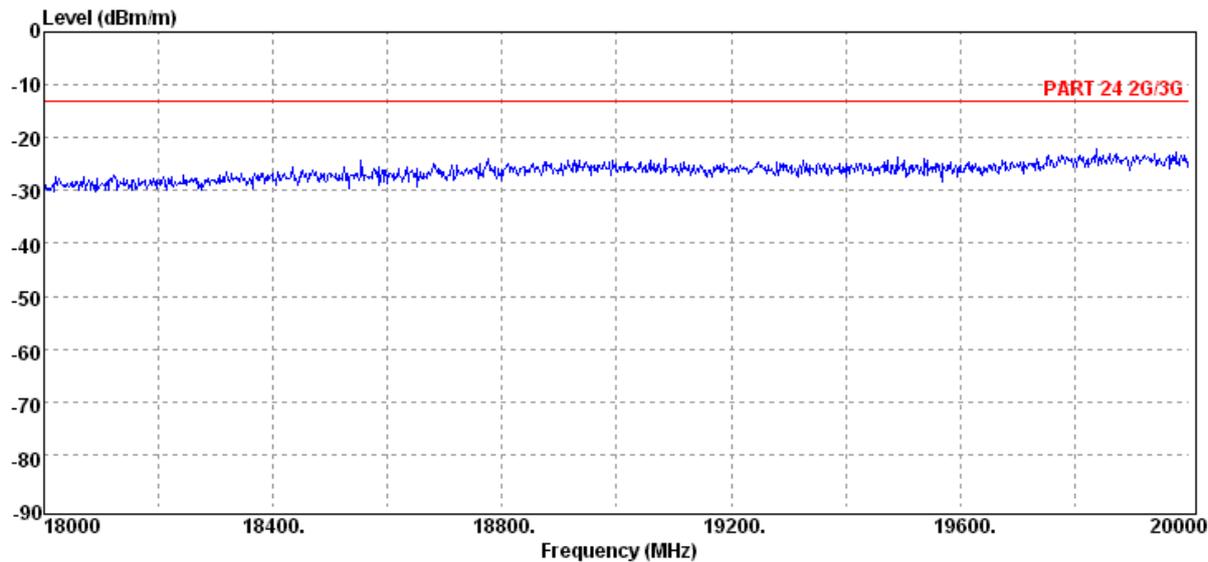
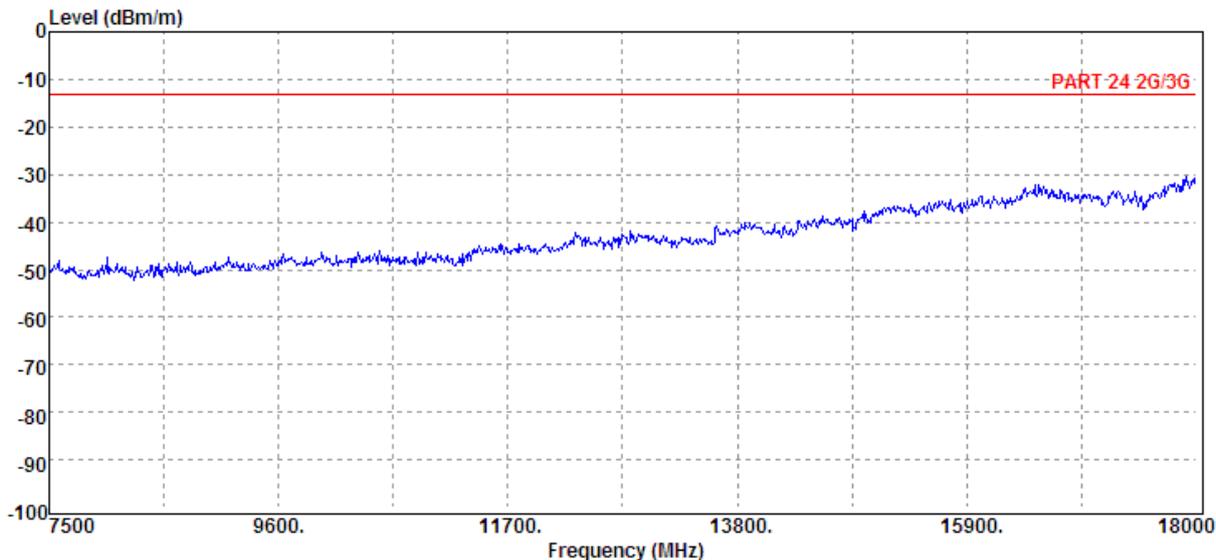
## Radiated Spurious Emission Measurement Result: HSUPA II Mode

Operation Band	:HSUPA B2	Test Date	:2012-05-24
ARFCN	:CH 9262	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Jay
Operation Mode	:TX		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL



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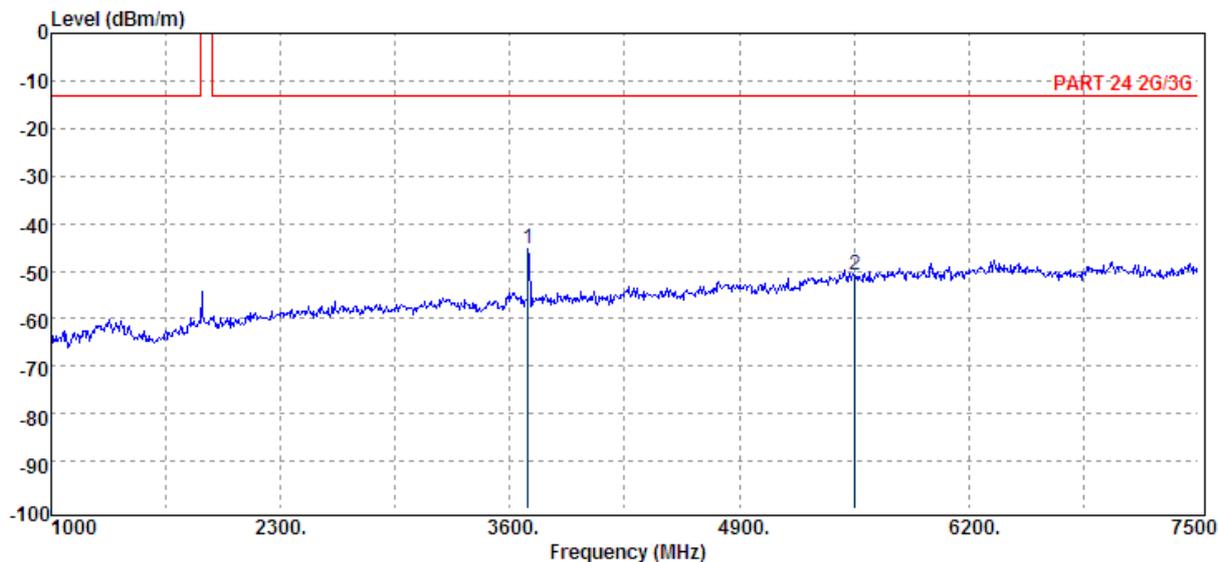
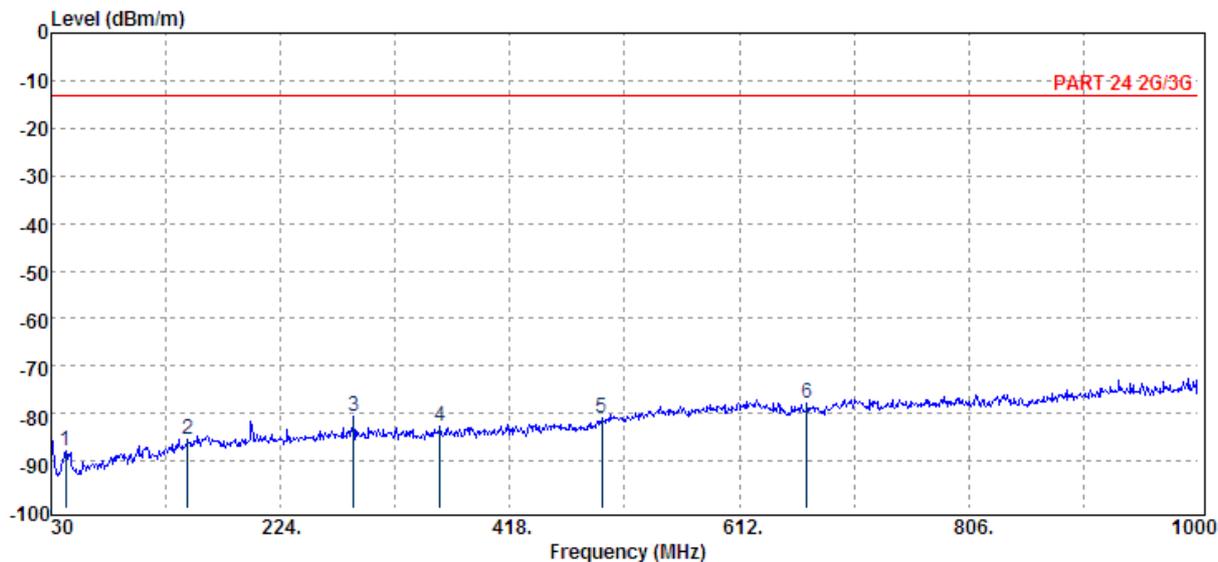
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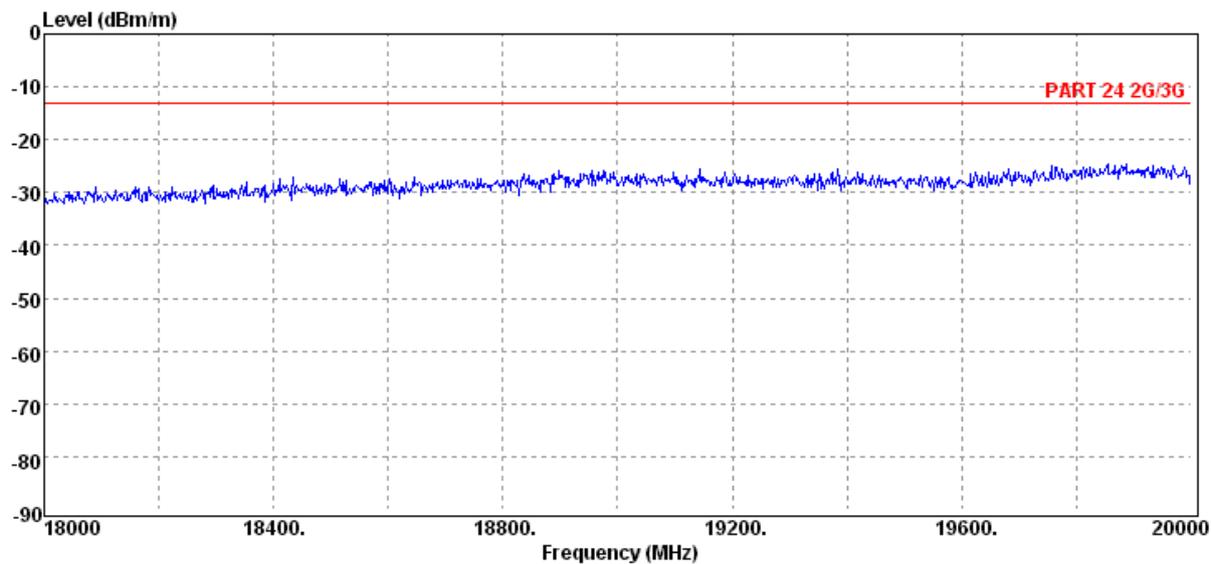
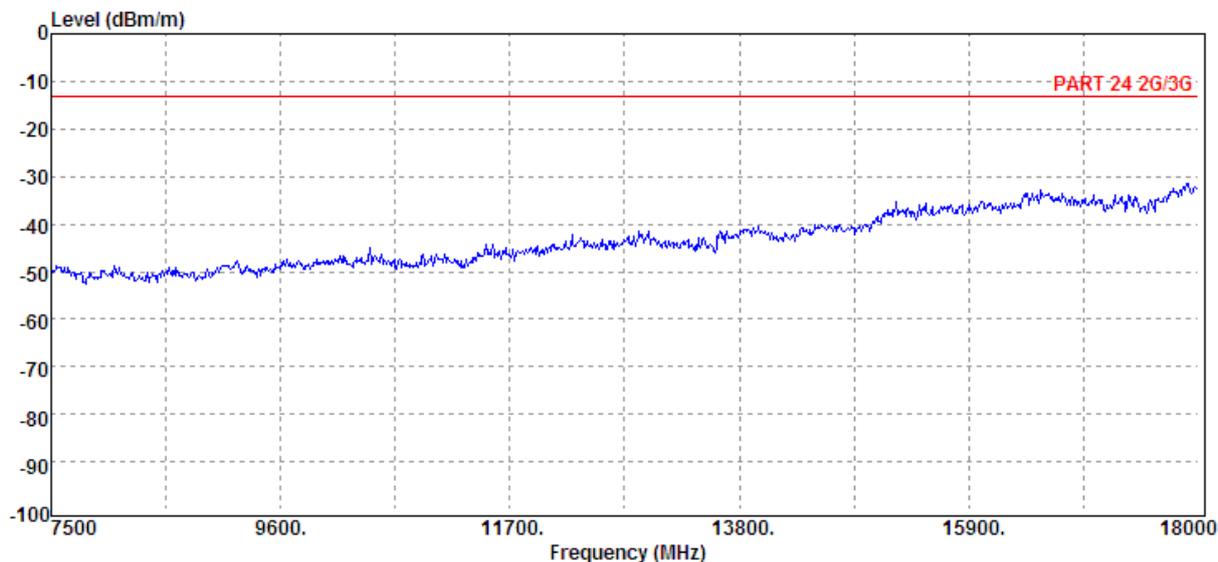
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Operation Band	:HSUPA B2	Test Date	:2012-05-24
ARFCN	:CH 9262	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Jay
Operation Mode	:TX		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL



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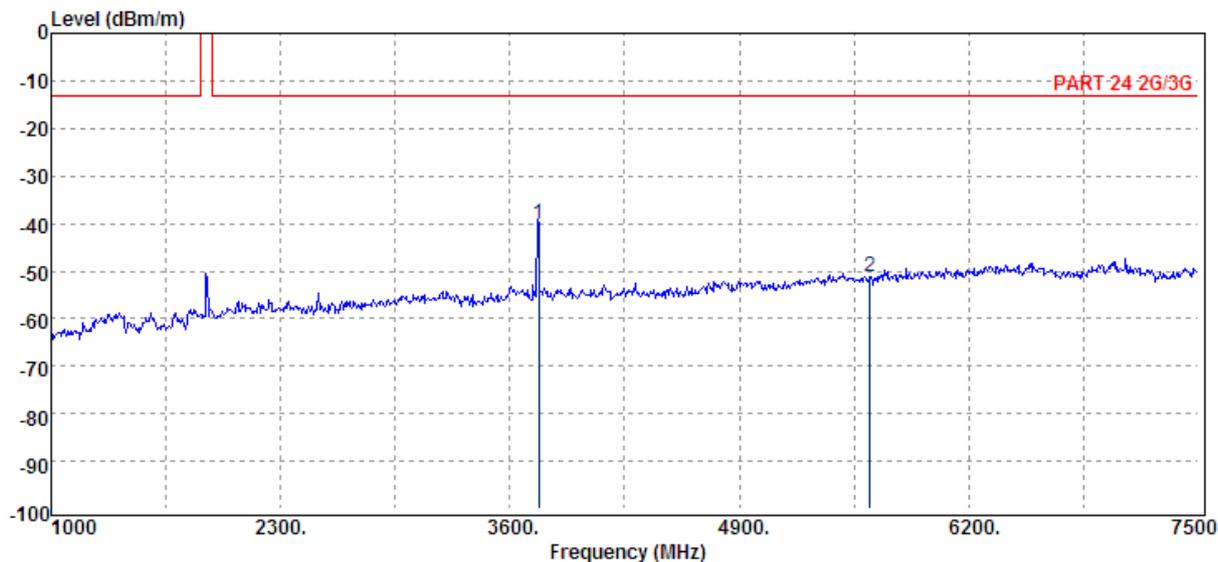
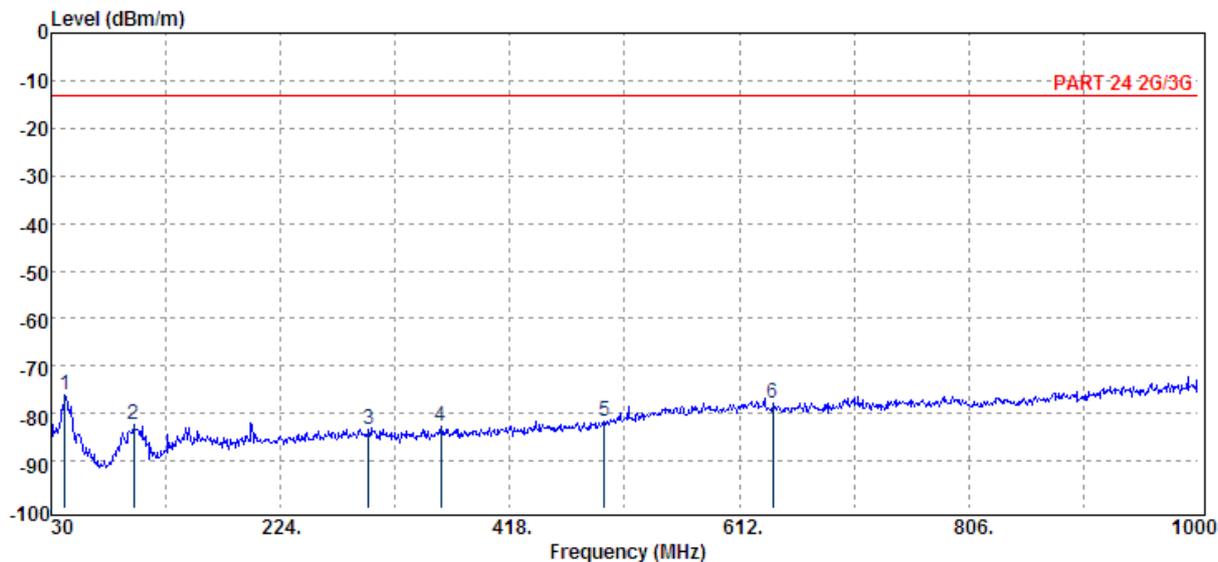
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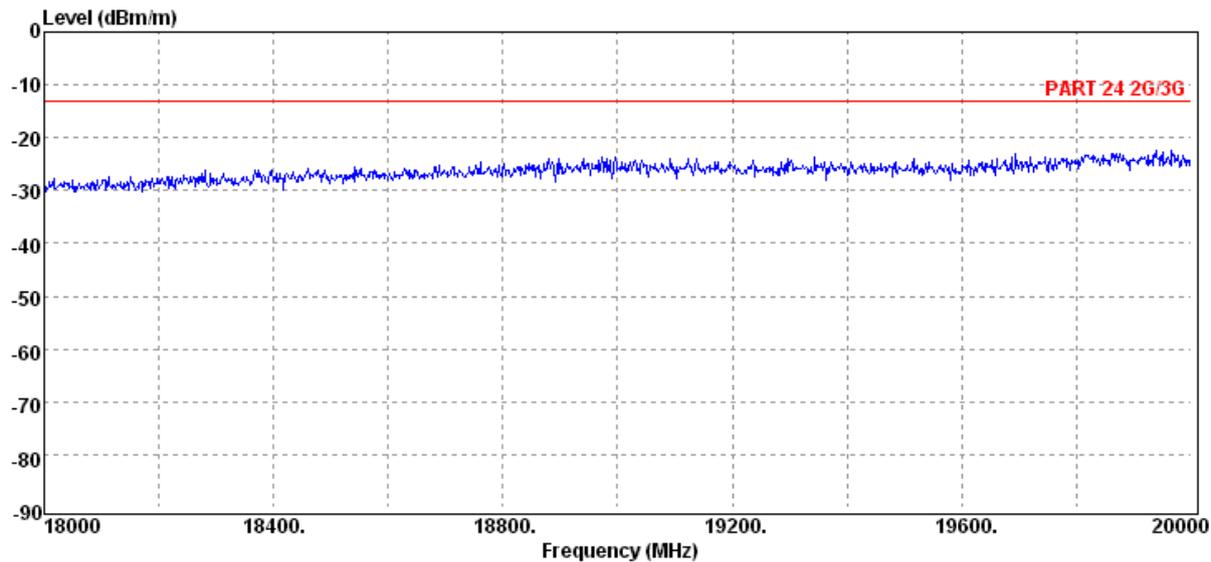
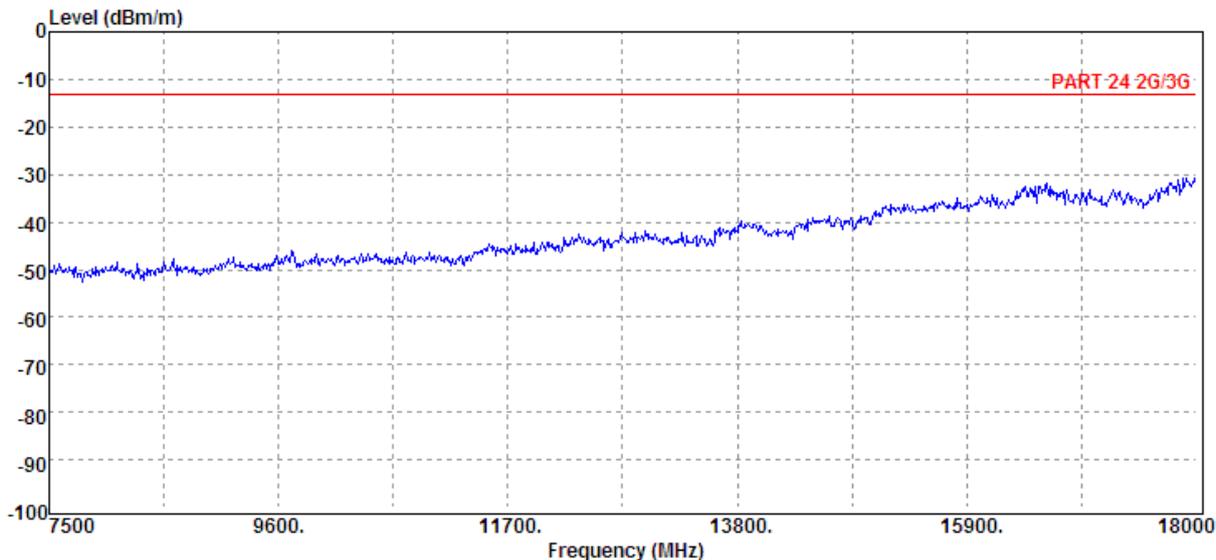
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Operation Band	:HSUPA B2	Test Date	:2012-05-24
ARFCN	:CH 9400	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Jay
Operation Mode	:TX		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL



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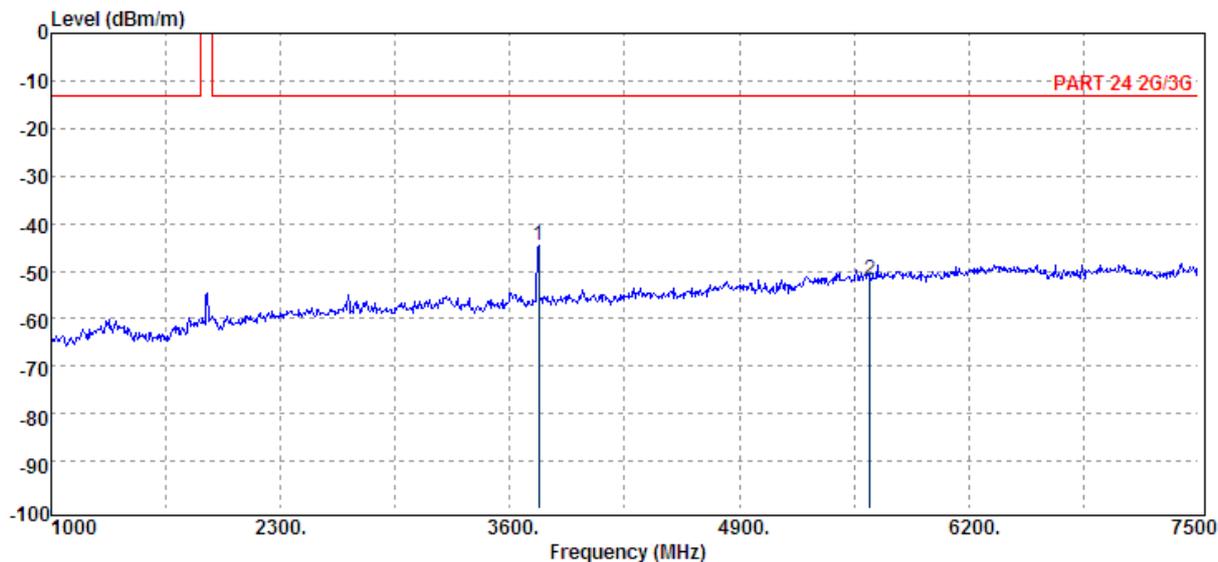
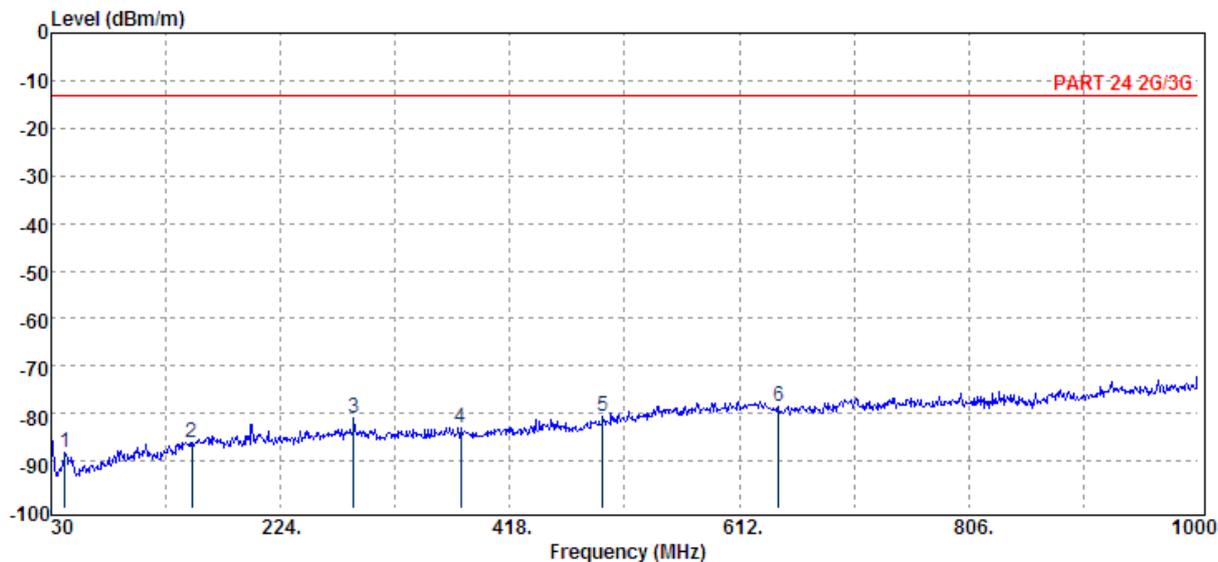
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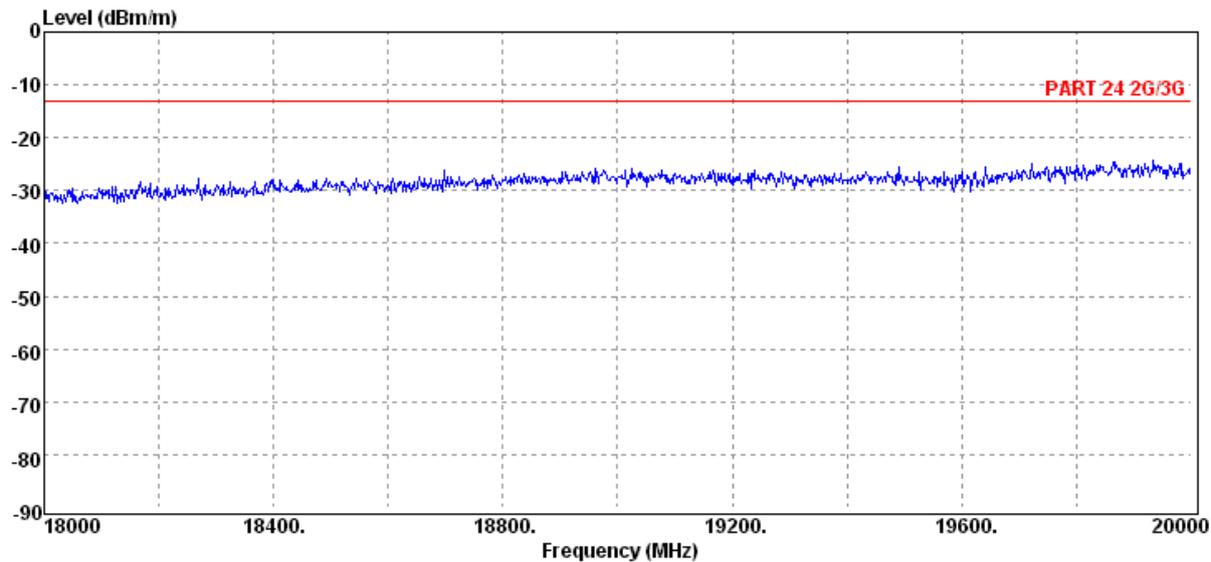
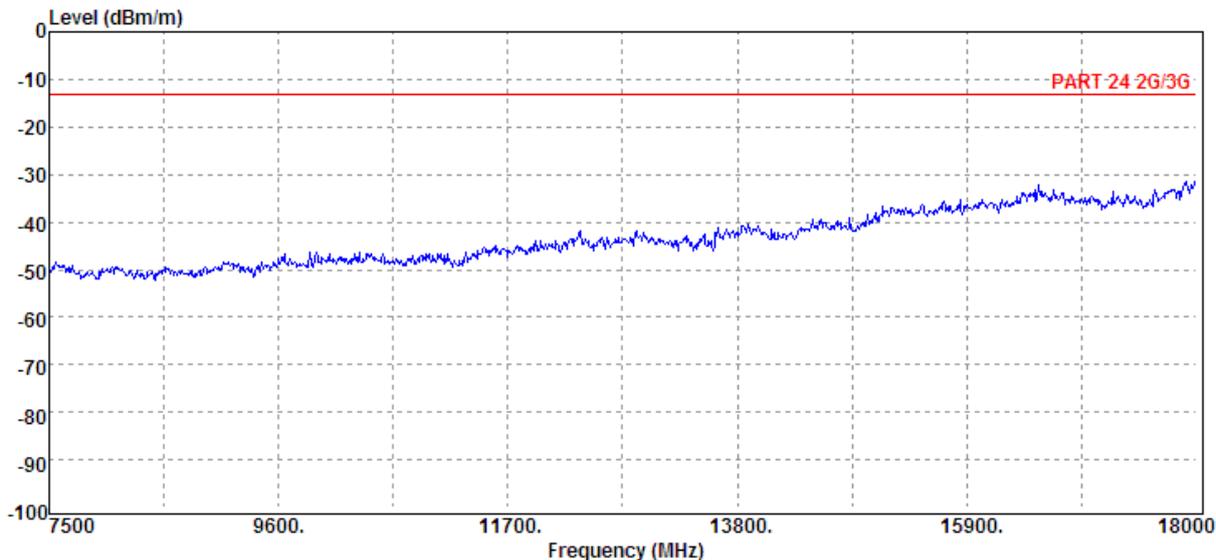
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Operation Band	:HSUPA B2	Test Date	:2012-05-24
ARFCN	:CH 9400	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Jay
Operation Mode	:TX		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:HORIZONTAL



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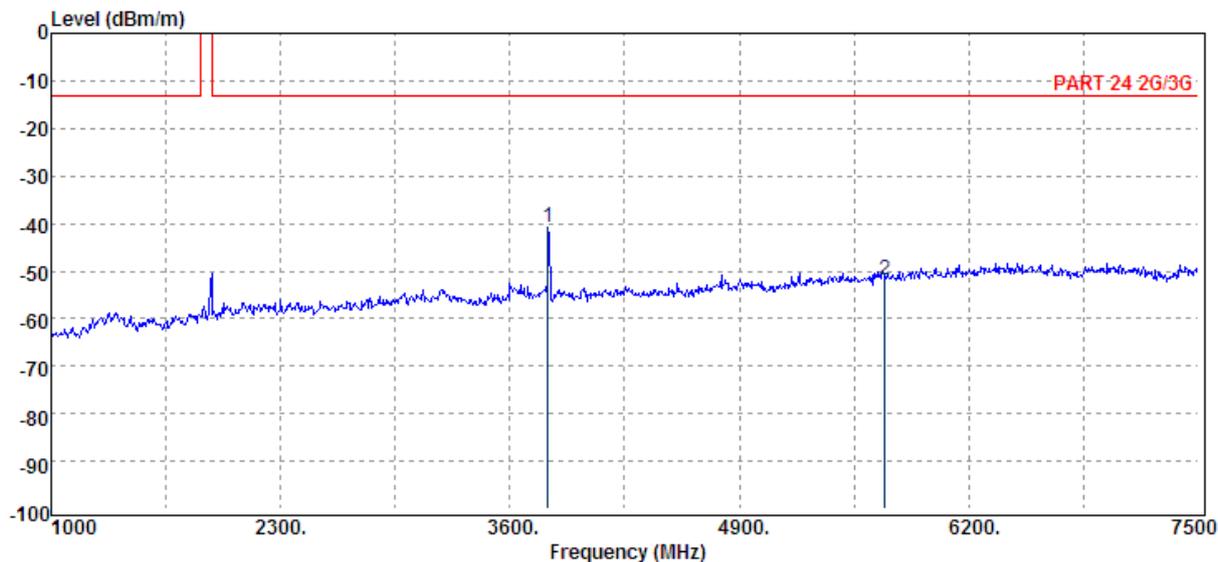
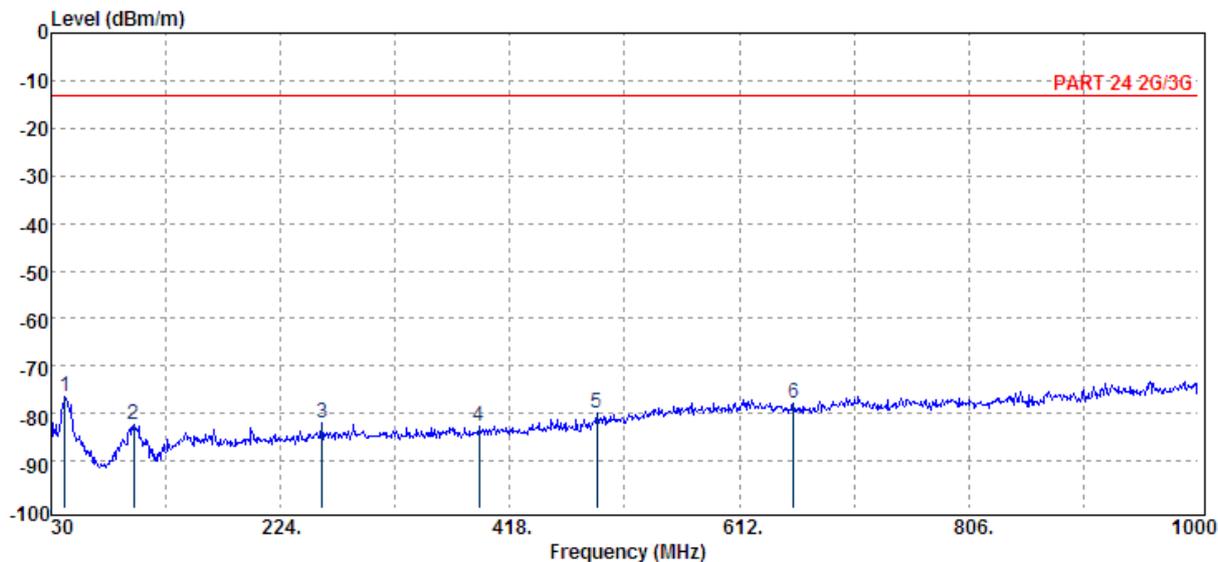
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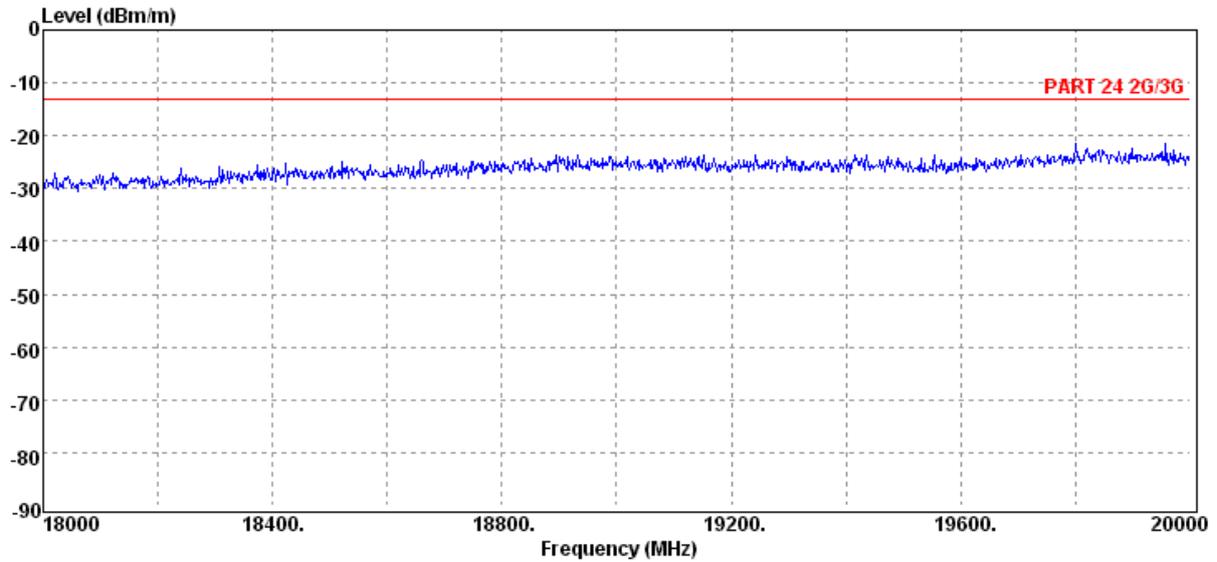
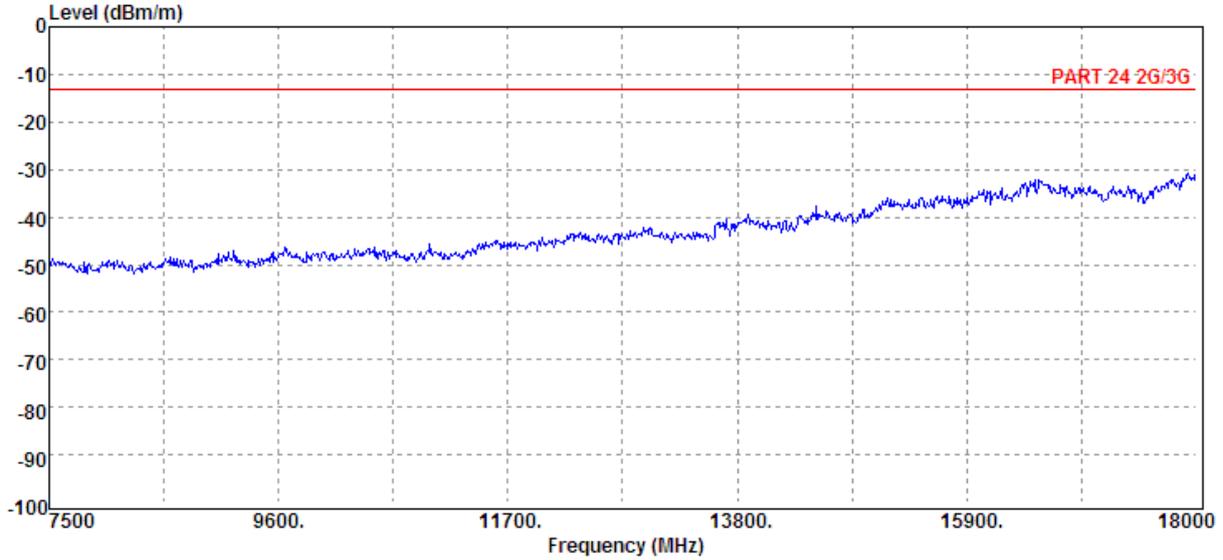
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Operation Band	:HSUPA B2	Test Date	:2012-05-24
ARFCN	:CH 9538	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Jay
Operation Mode	:TX		
EUT Pol.	:E1 Plan	Measurement Antenna Pol.	:VERTICAL



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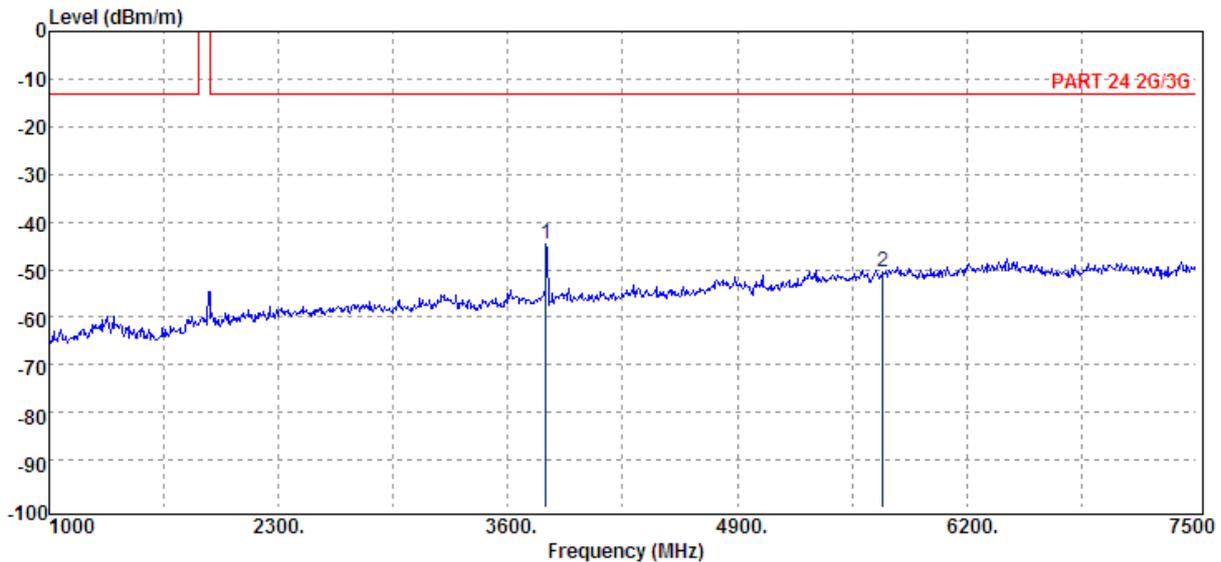
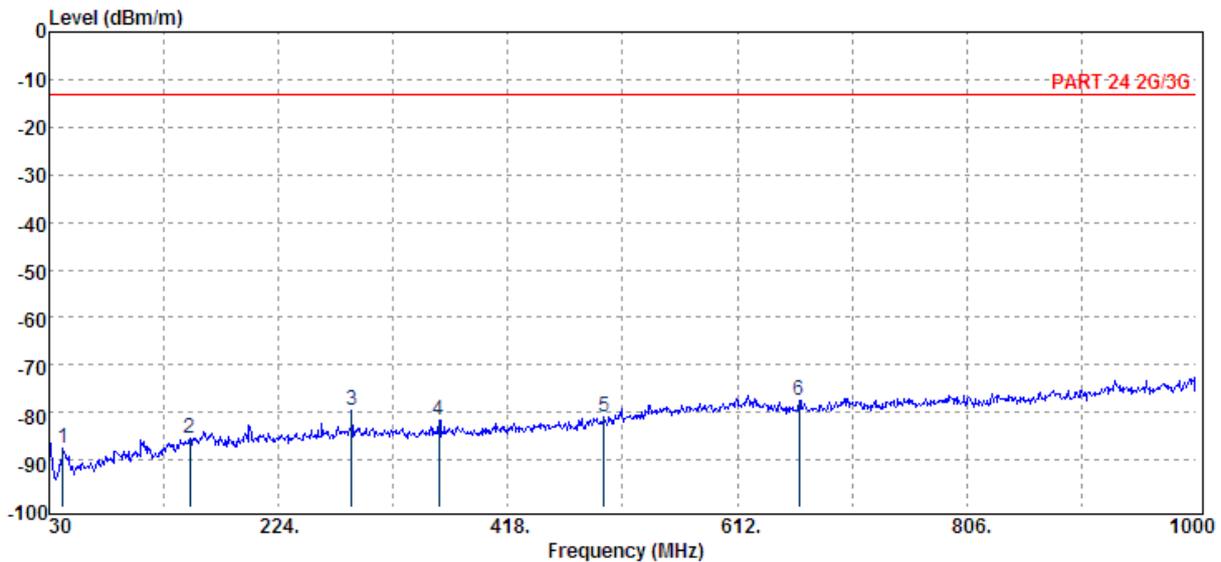
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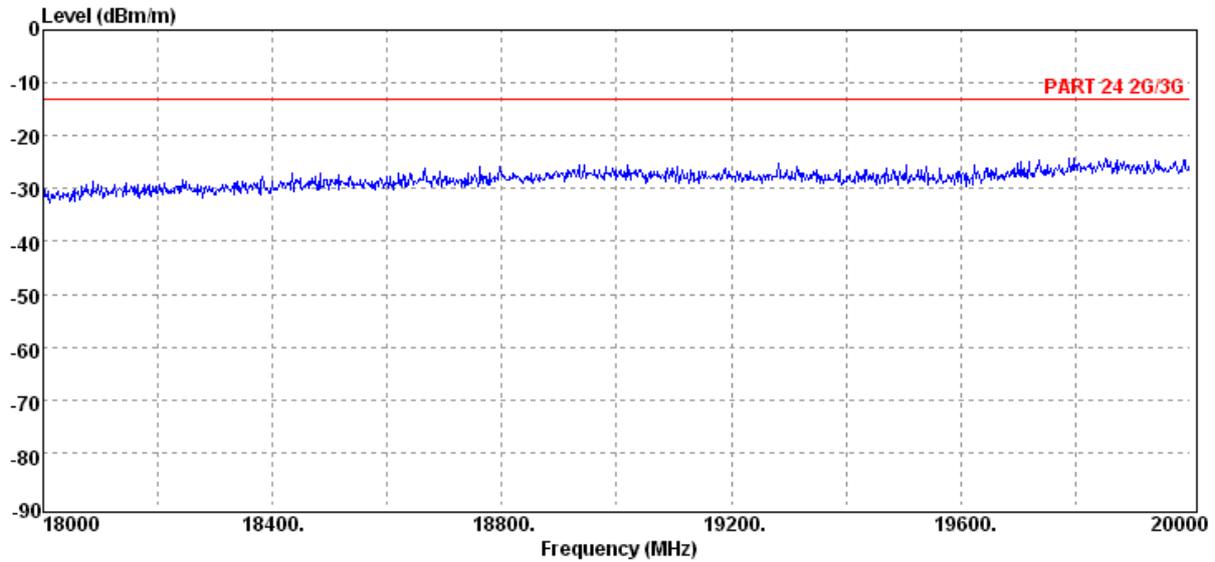
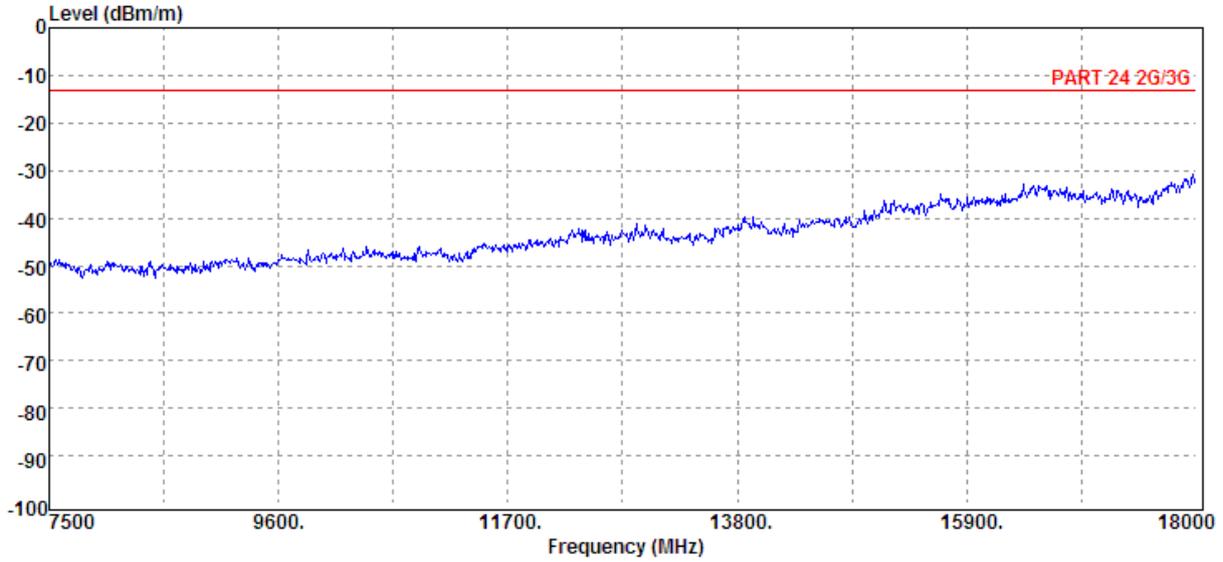
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Operation Band	:HSUPA B2	Test Date	:2012-05-24
ARFCN	:CH 9538	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Jay
Operation Mode	:TX	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E1 Plan		



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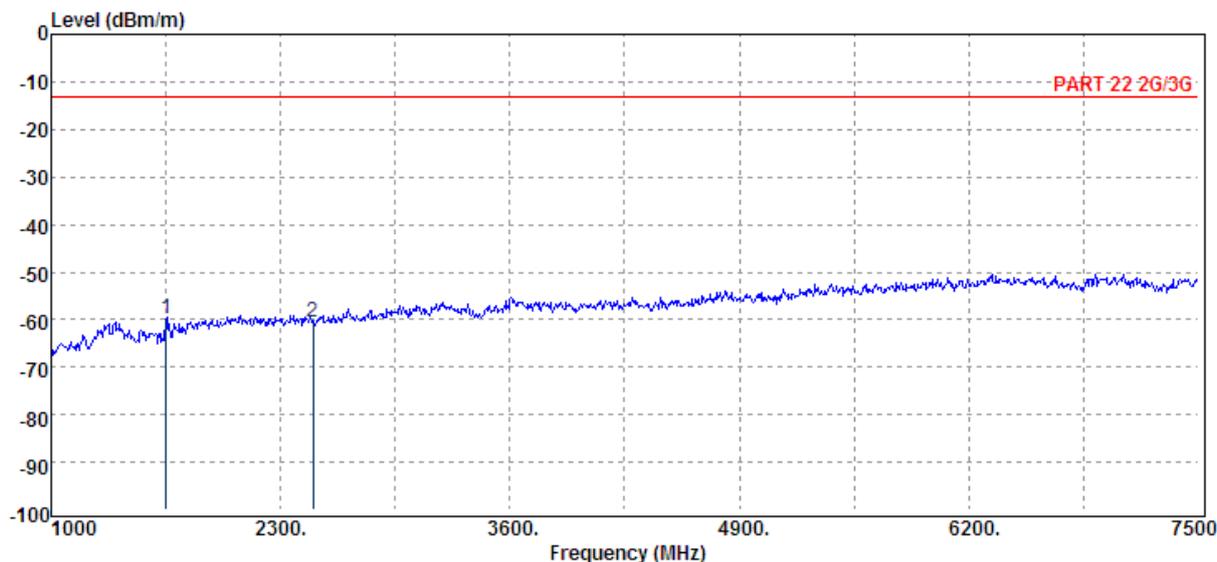
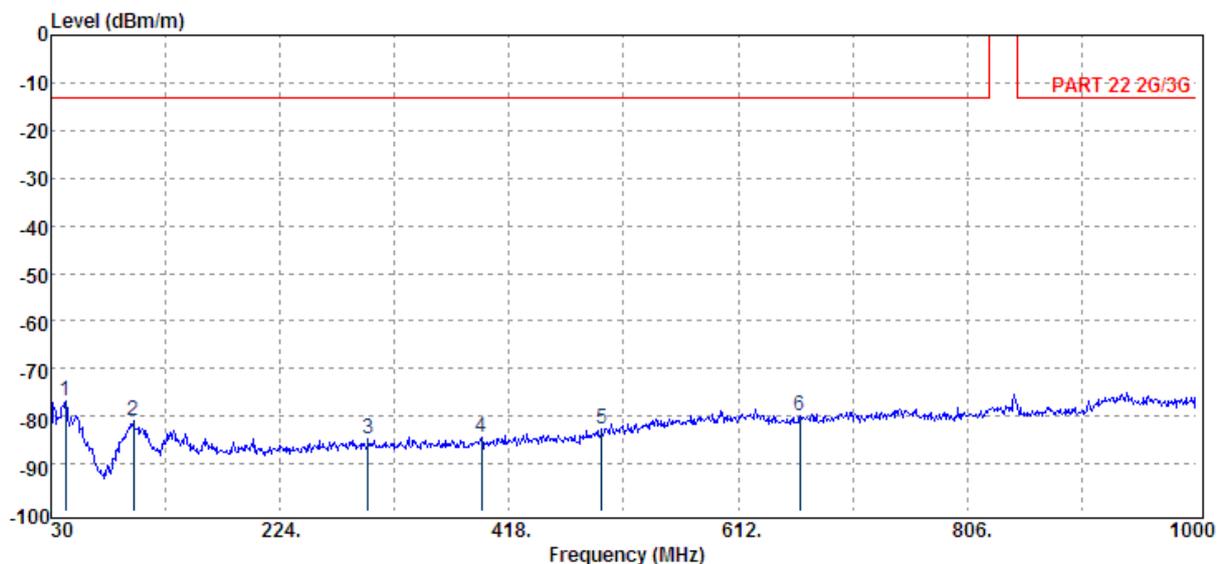


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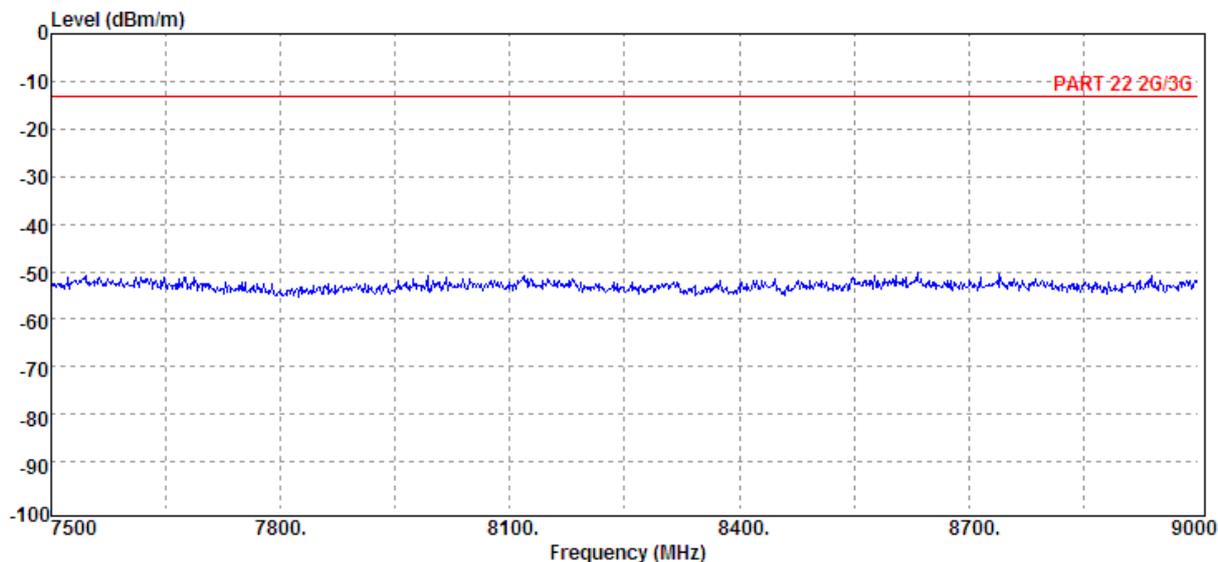
## Radiated Spurious Emission Measurement Result: HSUPA V Mode

Operation Band	:HSUPA B5	Test Date	:2012-05-24
ARFCN	:CH 4132	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Jimmy
Operation Mode	:TX		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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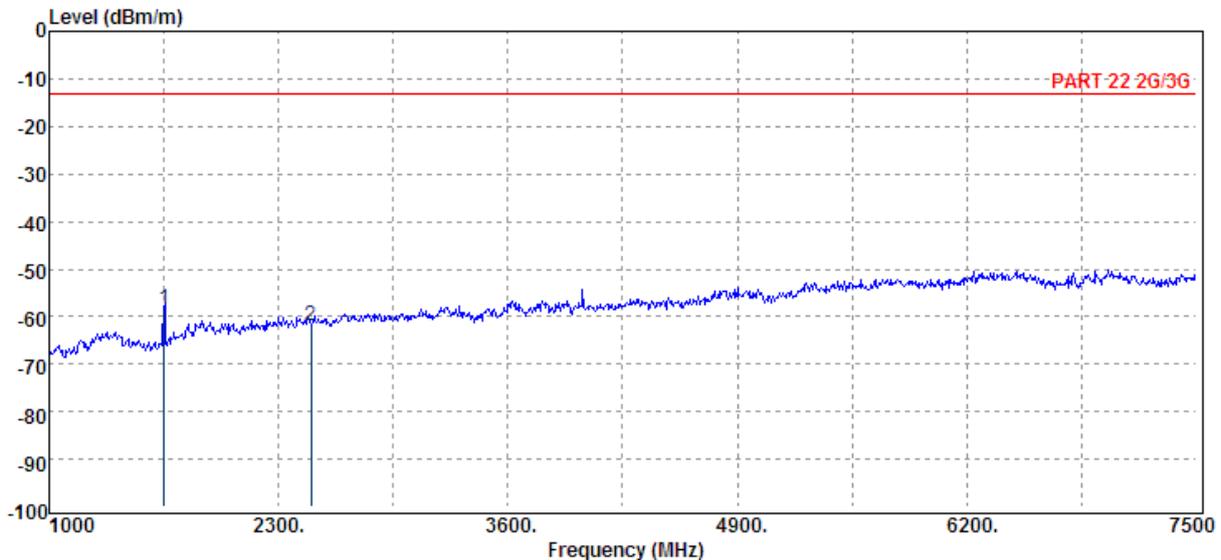
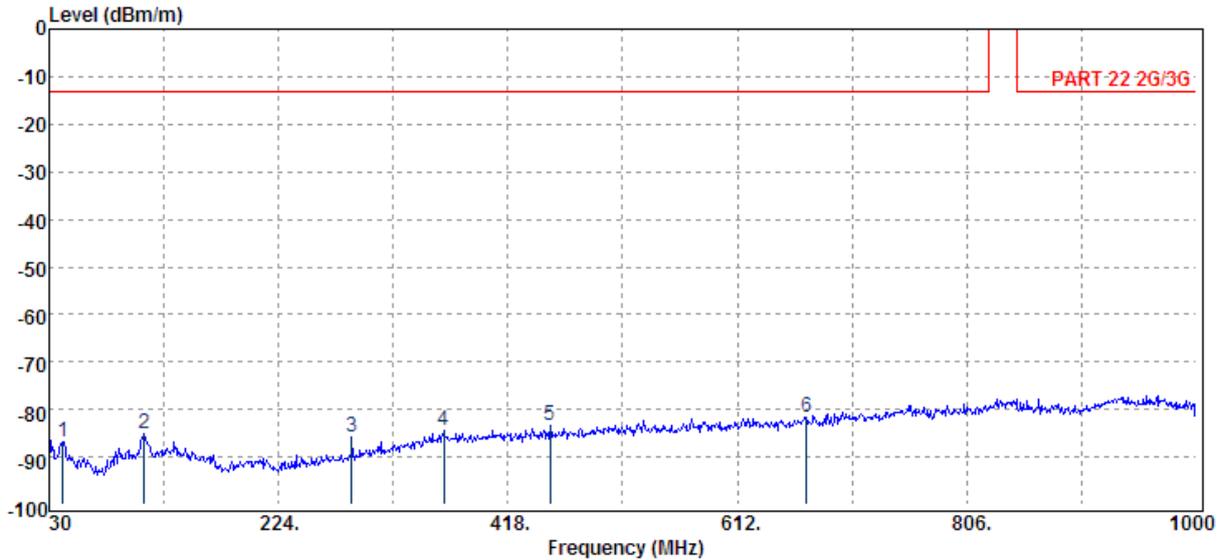
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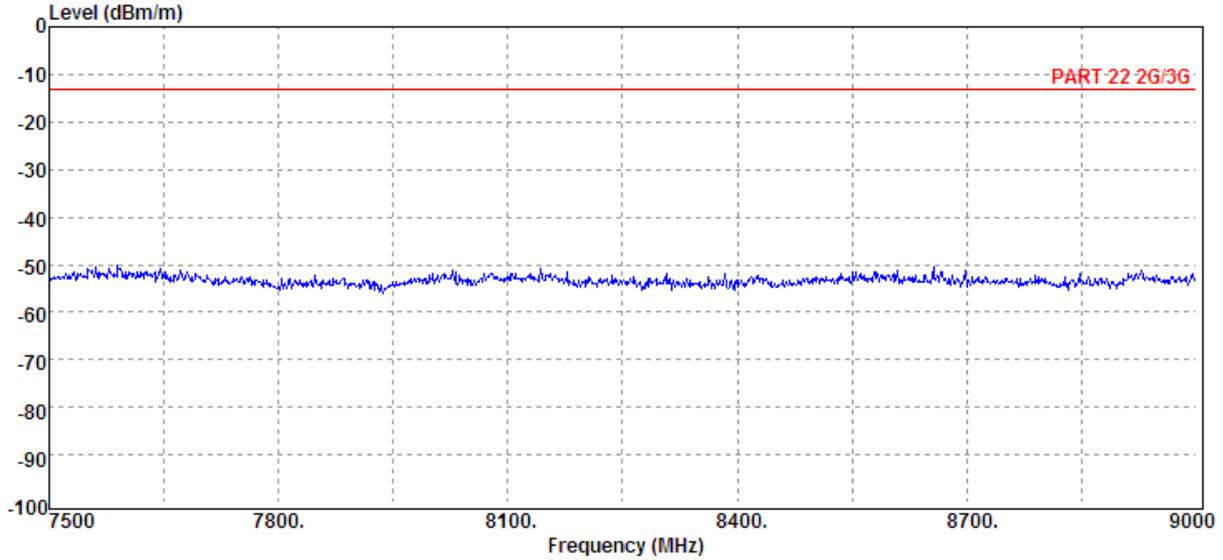
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Operation Band	:HSUPA B5	Test Date	:2012-05-24
ARFCN	:CH 4132	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Jay
Operation Mode	:TX		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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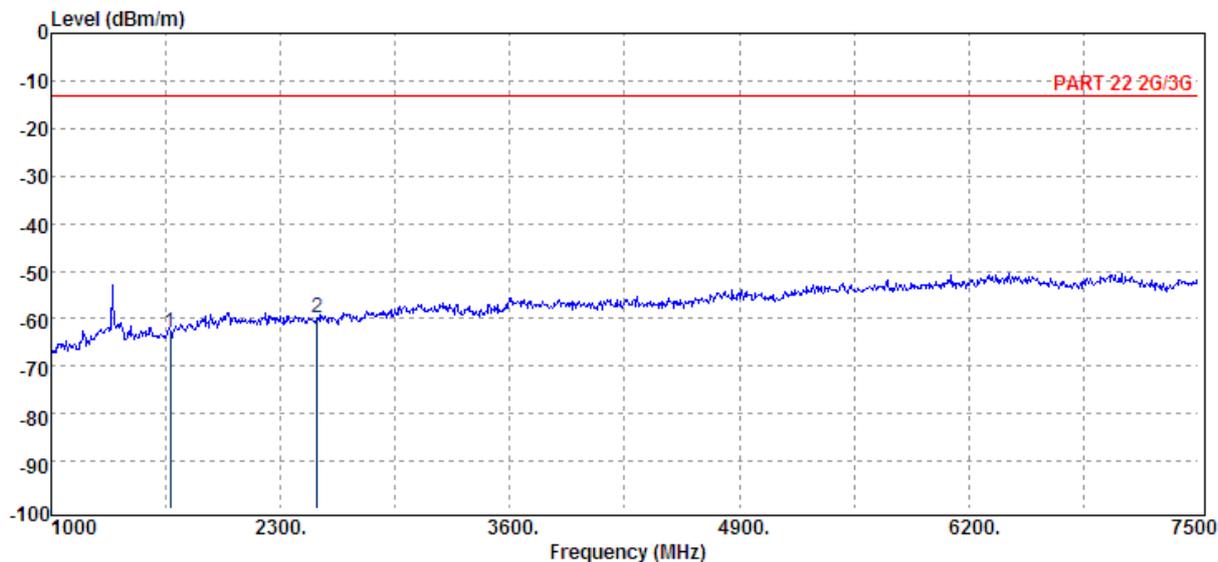
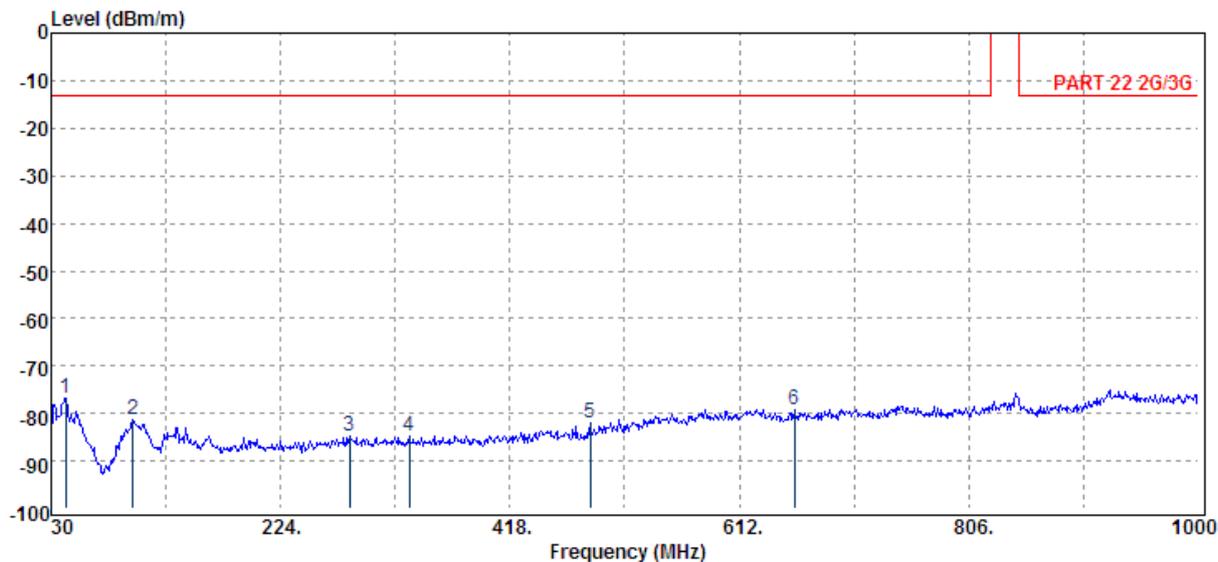
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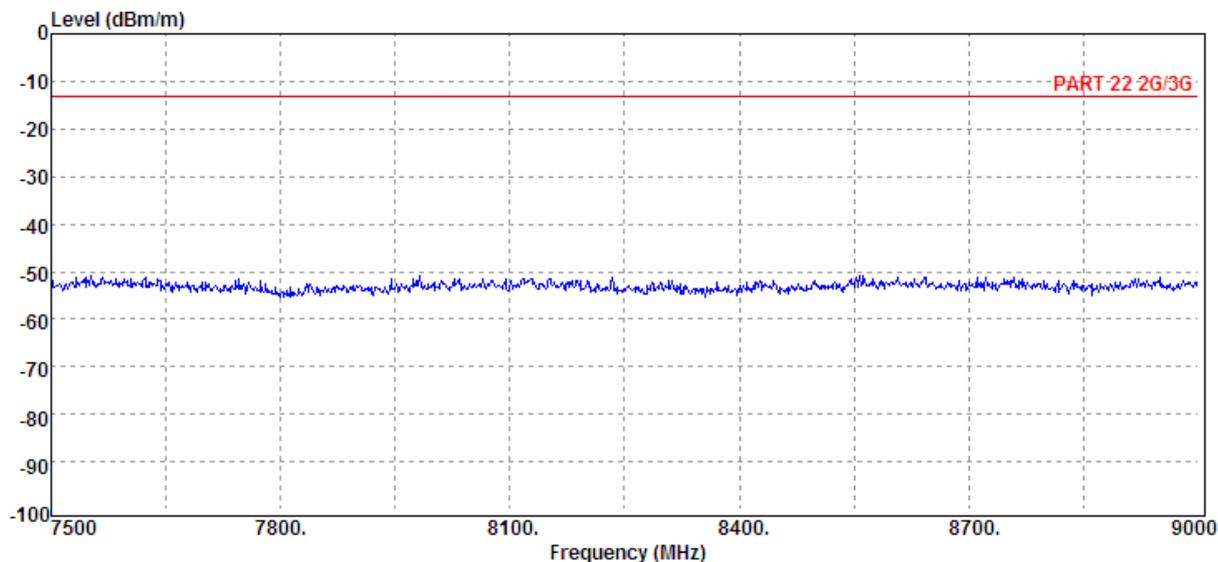
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Operation Band	:HSUPA B5	Test Date	:2012-05-24
ARFCN	:CH 4183	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Jay
Operation Mode	:TX		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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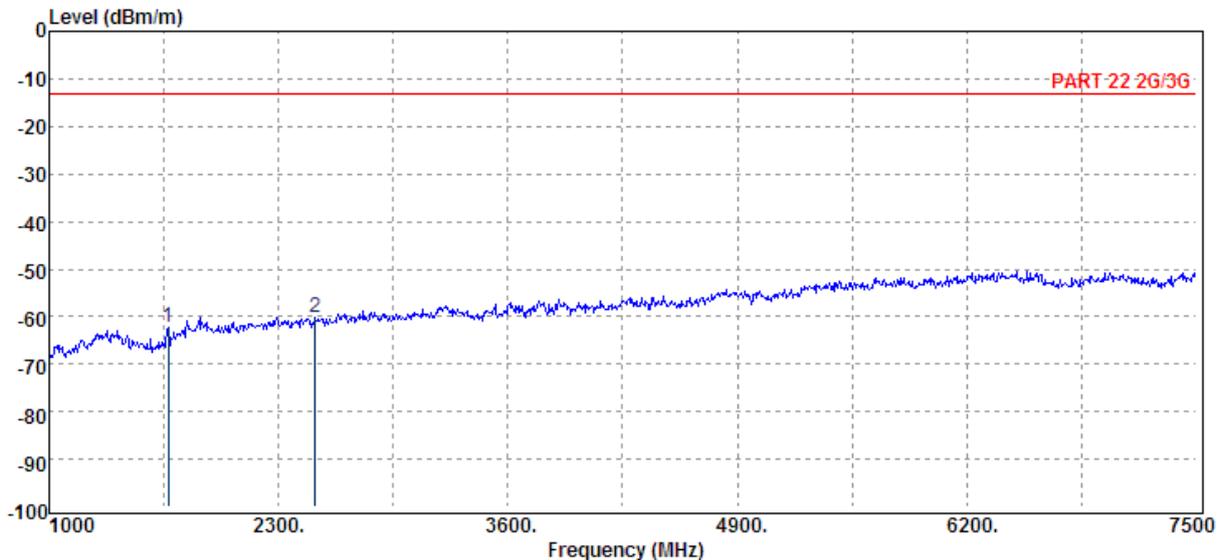
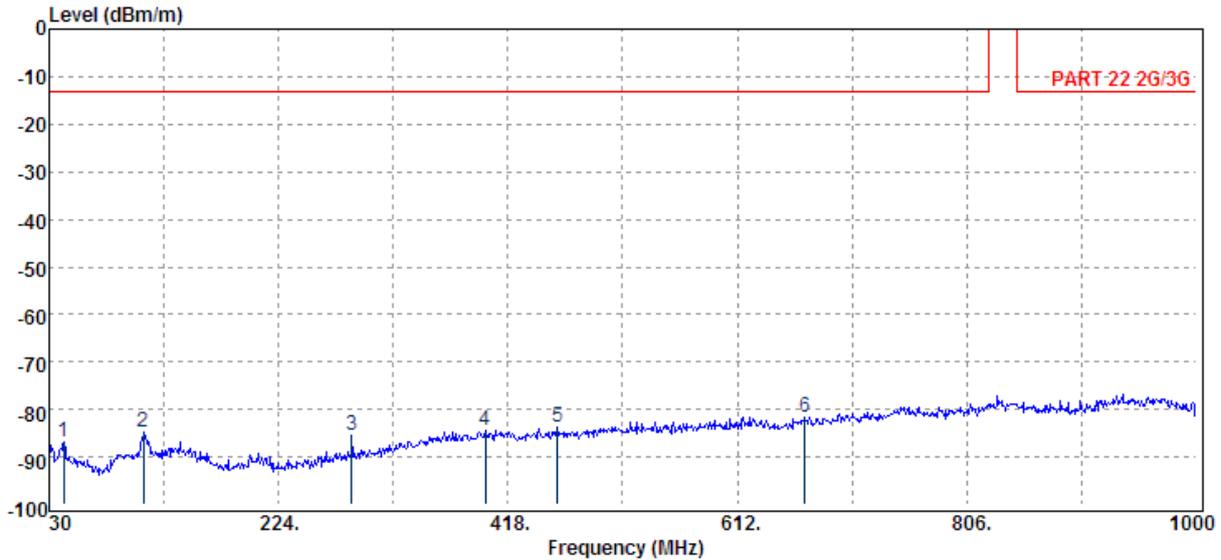
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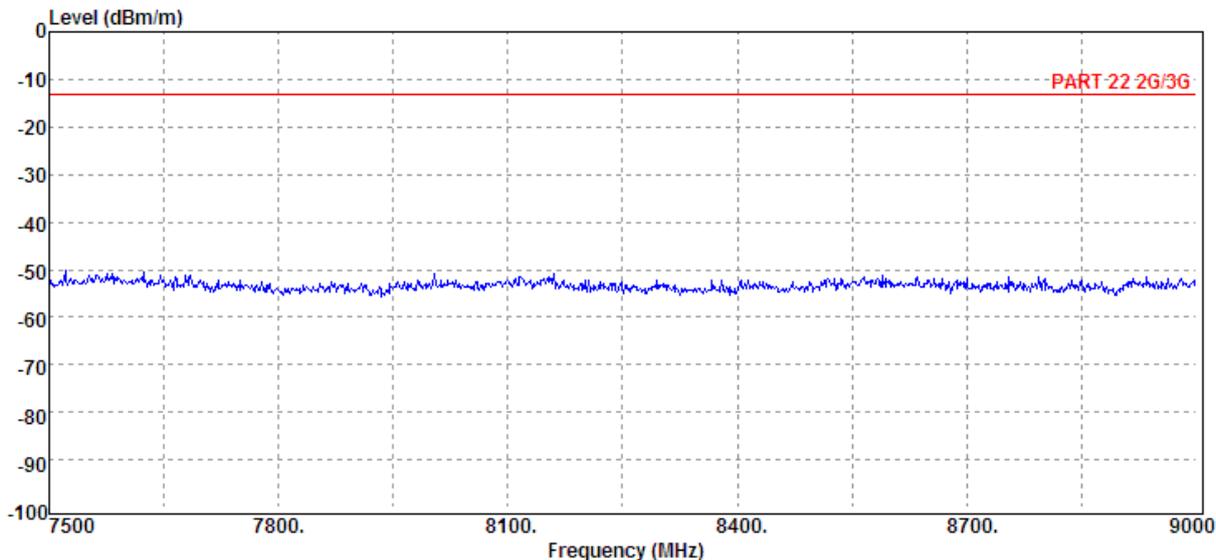
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Operation Band	:HSUPA B5	Test Date	:2012-05-24
ARFCN	:CH 4183	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Jay
Operation Mode	:TX		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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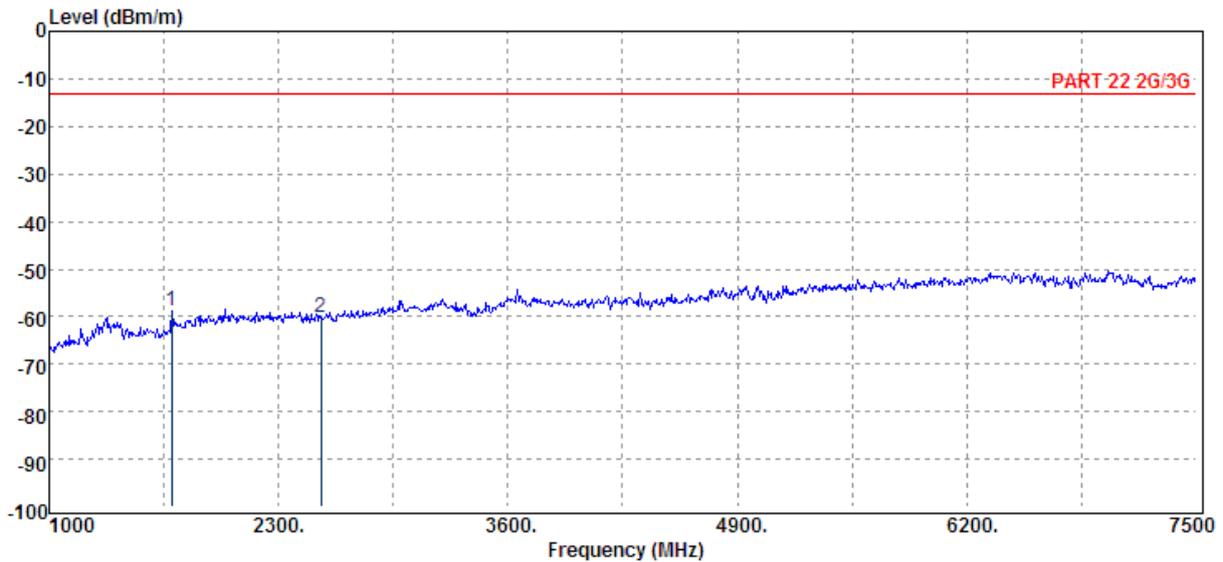
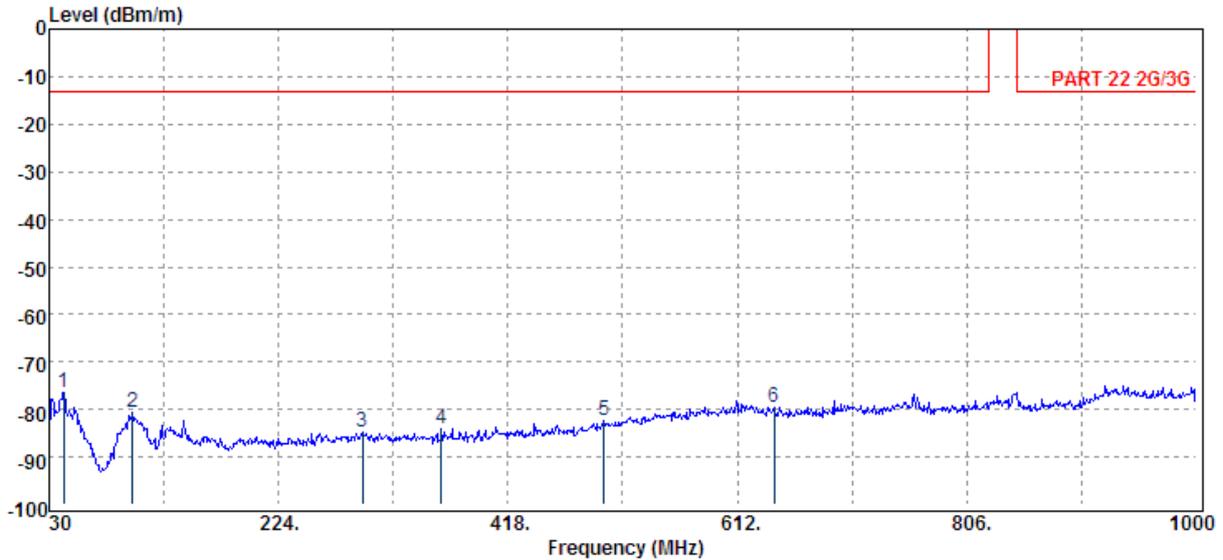
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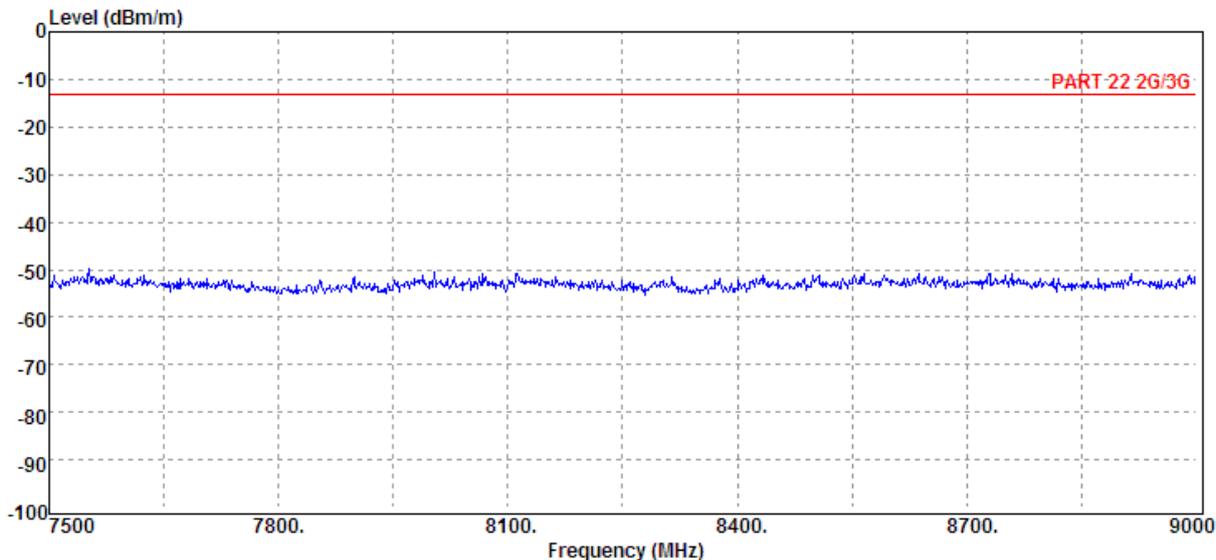
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Operation Band	:HSUPA B5	Test Date	:2012-05-24
ARFCN	:CH 4233	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Jay
Operation Mode	:TX		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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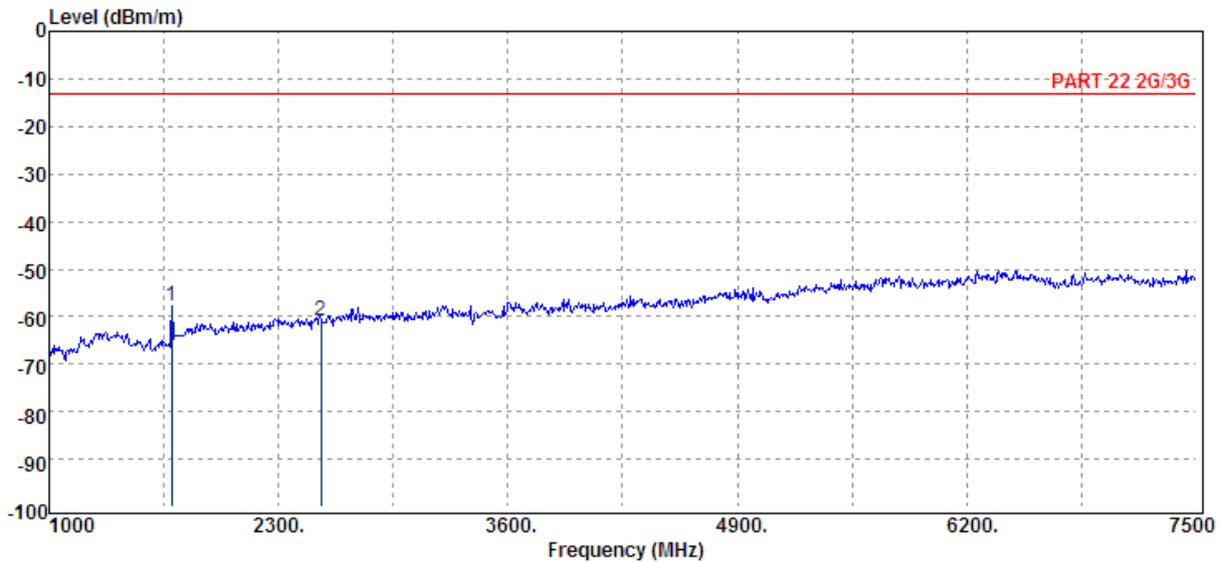
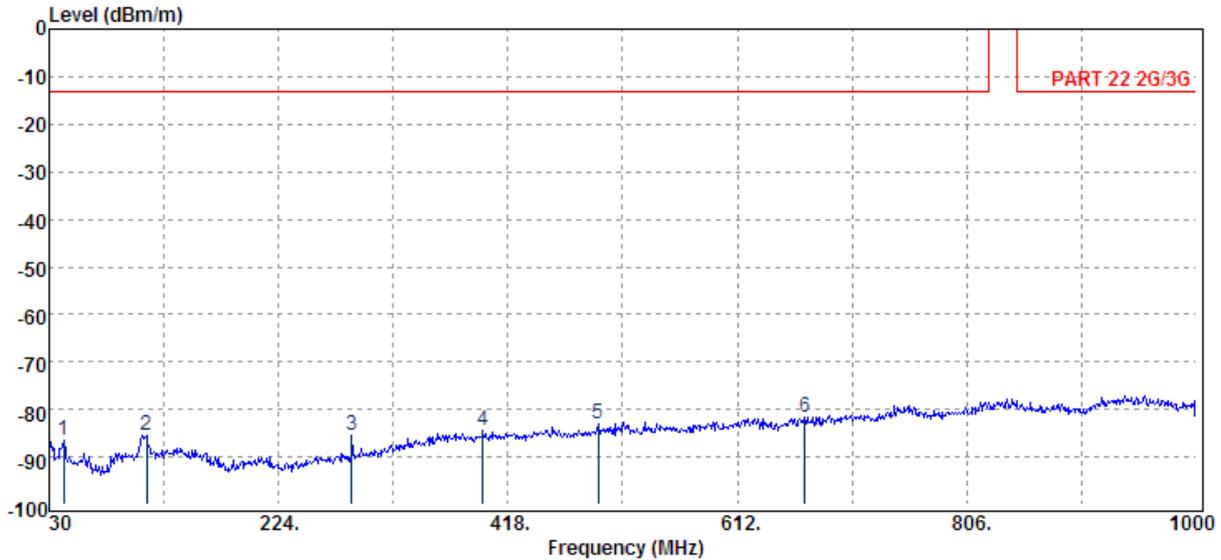
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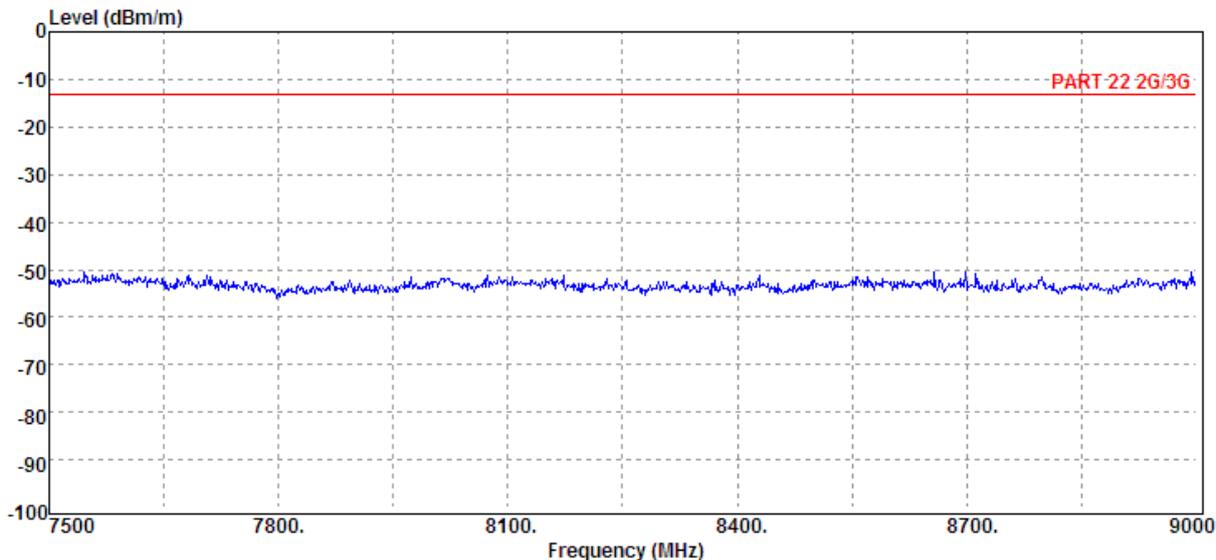
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Operation Band	:HSUPA B5	Test Date	:2012-05-24
ARFCN	:CH 4233	Temp./Humi.	:21 deg_C / 59 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Jay
Operation Mode	:TX		
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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