

**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:** Windows Phone

**Brand Name:** HTC

**Model No.:** PI06130

**Model Difference:** N/A

**FCC ID:** NM8PI06130

**IC:** 4115B-PI06130

**Report No.:** EH/2011/B0011

**Issue Date:** Dec. 16, 2011

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

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

**Prepared for:** HTC Corporation  
No. 23, Xinghua Rd., Taoyuan City, Taoyuan  
County 330, Taiwan, R.O.C.  
SGS Taiwan Ltd.

**Prepared by:** Electronics & Communication Laboratory  
No. 134, Wu Kung Rd., Wuku Industrial  
Zone, Taipei County, Taiwan.

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## VERIFICATION OF COMPLIANCE

**Applicant:** HTC Corporation  
No. 23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan,  
R.O.C.

**Product Name:** Windows Phone

**Brand Name:** HTC

**Model No.:** PI06130

**Model Difference:** N/A

**FCC ID:** NM8PI06130

**IC:** 4115B-PI06130

**File Number:** EH/2011/B0011

**Date of test:** Nov. 17, 2011 ~ Dec. 15, 2011

**Date of EUT Received:** Nov. 17, 2011

### 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:**

Dec. 16, 2011

*Jay Lin / Engineer*

**Prepared By:**

*Celine Chou*

**Date:**

Dec. 16, 2011

*Celine Chou / Clerk*

**Approved By:**

*Jim Chang*

**Date:**

Dec. 16, 2011

*Jim Chang / Supervisor*

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## Version

Version No.	Date	Description
00	Dec. 16, 2011	Initial creation of document

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## 1. GENERAL PRODUCT INFORMATION

### General:

Product Name:	Windows Phone	
Brand Name:	HTC	
Model No.:	PI06130	
Model Difference:	N/A	
Simple Hands-Free:	1. Model No.: HS G400, Supplier: FOSTER 2. Model No.: HS G400, Supplier: COTRON 3. Model No.: HS G400, Supplier: MERRY	
USB Cable:	1. Model No.: DC M410, Supplier: Coxoc 2. Model No.: DC M410, Supplier: Foxlink	
Power Supply:	3.7Vdc Li-Ion battery or 5 Vdc from AC/DC adapter	
	Battery:	1. Model No.: BG 58100, Supplier: TWS 2. Model No.: BG 58100, Supplier: WTE
	Adapter:	1. Model No.: TC U250, Supplier: Delta 2. Model No.: TC U250, Supplier: Phihong

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GSM and WCDMA:

Cellular Phone Standards Frequency Range and Power:	Operating Frequency		Rated Power
	GSM/GPRS 850, Class 10	824 MHz– 849MHz	33 dBm
	EDGE 850, Class 10	824 MHz– 849MHz	33 dBm
	GSM/GPRS 1900, Class 10	1850MHz – 1910MHz	30 dBm
	EDGE 1900, Class 10	1850MHz – 1910MHz	30 dBm
	WCDMA/HSUPA/HSDPA Band II	1852.4MHz – 1907.6MHz	23.5 dBm
	WCDMA/HSUPA/HSDPA Band V	826.40 MHz– 846.60MHz	23.5 dBm
Type of Emission	GSM 850: 248KGXW, GSM 1900: 244KGXW GPRS 850: 248KGXW, GPRS 1900: 245KGXW EDGE 850: 258KG7W, EDGE 1900: 243KG7W WCDMA Band II: 4M14F9W, HSUPA Band II: 4M16F9W, HSDPA Band II: 4M16F9W WCDMA Band V: 4M24F9W, HSUPA Band V: 4M19F9W, HSDPA Band V: 4M19F9W		
Hardware Version:	N/A		
Software Version:	N/A		
IMEI:	35951404001129500		

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

Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	3.7 Vdc	481
GSM 1900	3.7 Vdc	238
GPRS 850	3.7 Vdc	370
GPRS 1900	3.7 Vdc	456
EDGE 850	3.7 Vdc	581
EDGE 1900	3.7 Vdc	393
WCDMA B2	3.7 Vdc	673
WCDMA B5	3.7 Vdc	478
HSUPA B2	3.7 Vdc	495
HSUPA B5	3.7 Vdc	459
HSDPA B2	3.7 Vdc	530
HSDPA B5	3.7 Vdc	456

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

This submittal(s) (test report) is intended for **FCC ID: NM8PI06130** filing to comply with Section Part 22 subpart H, Part 24 subpart E and Part 27 of the FCC CFR 47 Rules and IC: **4115B-PI06130** 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.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2010	04/18/2012
Spectrum Analyzer	Agilent	E4440A	US41160416	01/25/2011	01/24/2012
Radio Communication Analyzer	R&S	CMU200	111787	12/07/2011	12/06/2013
800 – 1000MHz Filter	Micro-Tronics	BRM13462	001	01/05/2011	01/04/2012
1800 – 2000MHz Filter	Micro-Tronics	BRM13463	001	01/05/2011	01/04/2012
Temperature Chamber	TERCHY	MHG-120LF	911009	04/30/2010	04/29/2012
Temperature Chamber	GIANT FORCE	GTH-150-40-CP-AR	MAA0512-018	02/24/2010	02/23/2012
DC Block	Agilent	BLK-18	155452	01/05/2011	01/04/2012
Attenuator	Mini-Circuit	BW-S20W5	N/A	01/05/2011	01/04/2012
Attenuator	Mini-Circuit	BW-S10W5	N/A	01/05/2011	01/04/2012
Attenuator	Mini-Circuit	BW-S6W5	N/A	01/05/2011	01/04/2012
Splitter	Agilent	11636B	N/A	01/05/2011	01/04/2012
DC Power Supply	HP	6038A	2929A-07548	06/27/2011	06/26/2012

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

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	03/30/2011	03/29/2012
Bilog Antenna	SCHWAZBECK	VULB9160	3136	11/19/2010	11/18/2012
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	SCHWAZBECK	BBHA 9120D	309/320	01/22/2010	01/21/2012
Signal Generator	R&S	SMR40	100210	02/10/2010	02/09/2012
Signal Generator	Agilent	E4438C	MY45093613	07/08/2011	07/07/2013
Pre-Amplifier	Agilent	8447D	1937A02834	01/05/2011	01/04/2012
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2011	01/04/2012
Attenuator	Mini-Circuit	BW-S20W5	001	01/05/2011	01/04/2012
Attenuator	Mini-Circuit	BW-S10W5	001	01/05/2011	01/04/2012
Attenuator	Mini-Circuit	BW-S6W5	001	01/05/2011	01/04/2012
Radio Communication Analyzer	R&S	CMU200	111787	12/07/2011	12/06/2013
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	SUCOFLEX 104PEA-10M	10m	01/05/2011	01/04/2012
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2011	01/04/2012
Filter 800-1000	Micro-Tronics	BRM13462	1	01/05/2011	01/04/2012
Filter 1800-2000	Micro-Tronics	BRM13463	1	01/05/2011	01/04/2012
3m Site	SGS	966 chamber	N/A	07/15/2011	07/14/2012

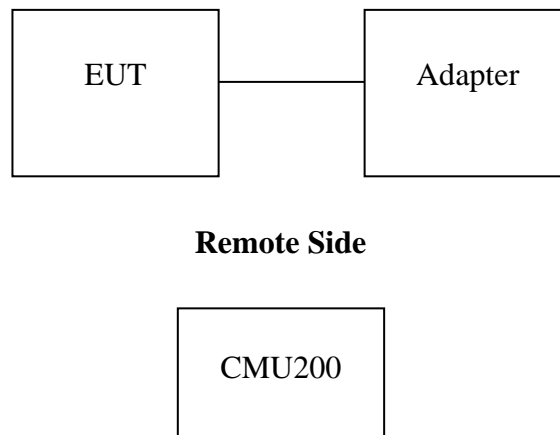
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## 2.5. Configuration of Tested System

**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.	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	Compliant

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Max ERP/EIRP measurement result:

	dBm		W
GSM 850 Band	32.07	ERP	1.611
GSM 1900 Band	28.76	EIRP	0.752
EDGE 850 Band	29.29	ERP	0.849
EDGE 1900 Band	27.89	EIRP	0.615
WCDMA Band II	22.19	EIRP	0.166
HSUPA Band II	22.46	EIRP	0.176
HSDPA Band II	23.18	EIRP	0.208
WCDMA Band V	22.98	ERP	0.199
HSUPA Band V	22.61	ERP	0.182
HSDPA Band V	22.61	ERP	0.182

#### 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 E2 position for GSM850/ GSM1900, H position for HSDPA Band II, E1 position for WCDMA Band V 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

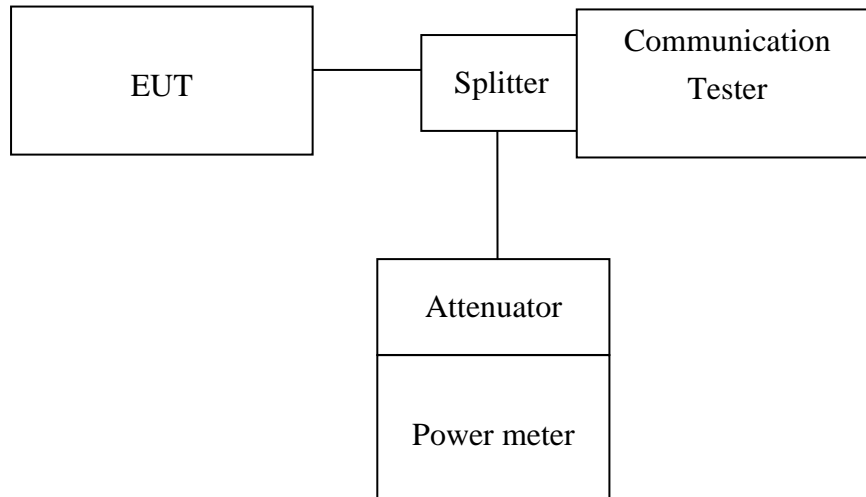
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## 6.2 Test Set-up:



*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 (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	34.00	33.20
	836.6	190	34.00	33.30
	848.8	251	33.90	33.30

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Burst Power (dBm)
GSM 1900	1850.2	512	30.80	30.40
	1880.0	661	30.60	30.30
	1909.8	810	30.40	30.10

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Average Burst Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Average Burst Power (1DN 2UP) (dBm)
GPRS 850 (Class 10)	824.2	128	34.20	33.40	33.40	32.80
	836.6	190	34.20	33.50	33.00	32.40
	848.8	251	34.20	33.50	33.00	32.40

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Average Burst Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Average Burst Power (1DN 2UP) (dBm)
GPRS 1900 (Class 10)	1850.2	512	30.80	30.40	30.10	29.80
	1880.0	661	30.60	30.30	29.80	29.60
	1909.8	810	30.30	30.10	30.10	29.80

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EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Average Burst Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Average Burst Power (1DN 2UP) (dBm)
EDGE 850 (Class 10)	824.2	128	30.40	27.10	29.10	25.90
	836.6	190	30.40	27.10	29.30	26.00
	848.8	251	30.40	27.20	29.30	26.10

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Average Burst Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Average Burst Power (1DN 2UP) (dBm)
EDGE 1900 (Class 10)	1850.2	512	29.20	26.00	28.10	24.90
	1880.0	661	29.20	26.00	28.00	24.80
	1909.8	810	28.90	25.70	27.80	24.60

offset: 0.9 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	26.33	23.38
	1880.0	9400	26.51	23.48
	1907.6	9538	26.33	23.14

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Power (dBm)
WCDMA Band V	826.40	4132	26.73	23.56
	836.60	4183	26.73	23.48
	846.60	4233	26.57	23.44

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Power (dBm)
HSDPA Band II	1852.40	9262	26.19	22.89
	1880.00	9400	26.48	22.86
	1907.60	9538	26.27	22.73

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Power (dBm)
HSDPA Band V	826.40	4132	26.47	23.07
	836.60	4183	26.56	23.04
	846.60	4233	26.41	22.95

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EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Power (dBm)
HSUPA Band II	1852.40	9262	25.83	22.45
	1880.00	9400	25.84	22.35
	1907.60	9538	25.86	22.25

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Power (dBm)
HSUPA Band V	826.40	4132	26.45	23.09
	836.60	4183	26.68	23.06
	846.60	4233	26.55	23.19

Note: The results above reflect max power with all up bits.  
offset: 0.5 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)	$\beta_c/\beta_a$	$\beta_{HS}$ (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	23.55	23.37	23.00	20.3dBm – 25.7dBm	Pass
	2	23.26	23.34	22.99	20.3dBm – 25.7dBm	Pass
	3	23.07	22.92	22.47	19.8dBm – 25.7dBm	Pass
	4	23.14	22.93	22.59	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4172	4233		
HSDPA B5	1	23.35	23.34	23.56	20.3dBm – 25.7dBm	Pass
	2	23.49	23.37	23.31	20.3dBm – 25.7dBm	Pass
	3	22.89	22.86	23.07	19.8dBm – 25.7dBm	Pass
	4	22.94	22.90	23.13	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	RMS Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSUPA B2	1	23.30	23.46	23.08	17.3dBm – 25.7dBm	Pass
	2	21.35	21.53	21.12	16.8dBm – 25.7dBm	Pass
	3	22.36	22.48	22.16	17.8dBm – 25.7dBm	Pass
	4	21.48	21.58	21.16	16.8dBm – 25.7dBm	Pass
	5	23.19	23.32	22.99	17.3dBm – 25.7dBm	Pass

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4172	4233		
HSUPA B5	1	23.52	23.41	23.36	17.3dBm – 25.7dBm	Pass
	2	21.58	21.49	21.40	16.8dBm – 25.7dBm	Pass
	3	22.56	22.47	22.44	17.8dBm – 25.7dBm	Pass
	4	21.63	21.55	21.48	16.8dBm – 25.7dBm	Pass
	5	23.38	23.24	23.25	17.3dBm – 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)	30.4	30.4	30.4	30.4	28.4	26.4	24.6	22.4	20.2	
PCL	9	10	11	12	13	14	15	16	17	18
Output power (dBm)	18.3	16.6	14.5	12.4	10.4	8.9	6.6	4.6	2.5	0.5

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 19 for measurement data) . The min. power was measures by a function key “minimum power” then record the read. It is -52.5dBm. 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.

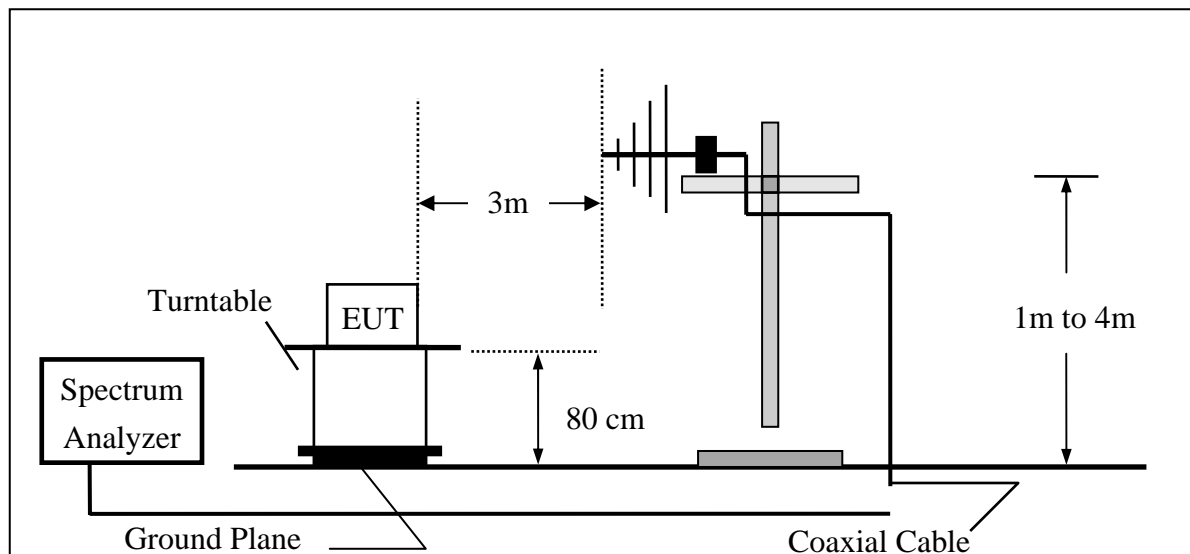
According to IC RSS-133 §6.4

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

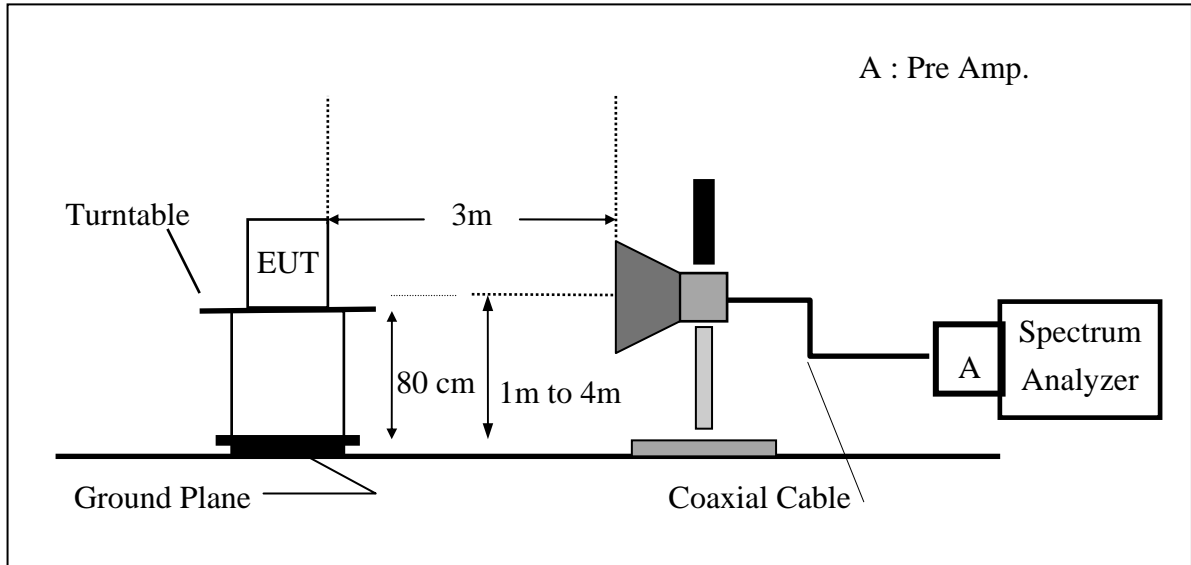


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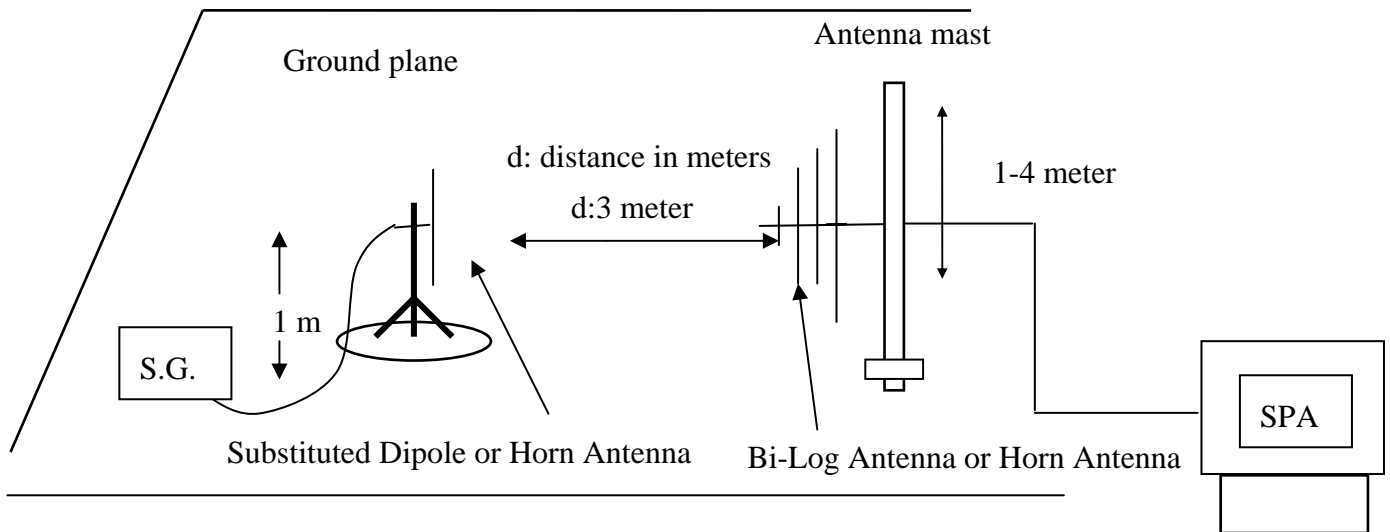
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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### 7.3. Measurement Procedure:

The EUT was placed on an 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 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 dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

EIRP in frequency band 1710-1755MHz and 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 Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
GSM 850	824.20	128	H	V	126.90	40.51	-7.87	3.62	29.01	38.45
				H	119.08	32.81	-7.87	3.62	21.31	38.45
			E1	V	119.19	32.80	-7.87	3.62	21.30	38.45
				H	128.08	41.81	-7.87	3.62	30.31	38.45
			E2	V	118.48	32.09	-7.87	3.62	20.59	38.45
				H	128.94	42.67	-7.87	3.62	31.17	38.45
	836.60	190	H	V	127.80	41.55	-7.88	3.65	30.02	38.45
				H	118.85	32.62	-7.88	3.65	21.09	38.45
			E1	V	120.08	33.83	-7.88	3.65	22.30	38.45
				H	128.54	42.31	-7.88	3.65	30.78	38.45
			E2	V	118.70	32.45	-7.88	3.65	20.92	38.45
				H	129.44	43.21	-7.88	3.65	31.68	38.45
	848.80	251	H	V	127.71	41.59	-7.88	3.68	30.03	38.45
				H	120.34	34.15	-7.88	3.68	22.59	38.45
			E1	V	120.83	34.71	-7.88	3.68	23.15	38.45
				H	128.96	42.77	-7.88	3.68	31.21	38.45
			E2	V	117.88	31.76	-7.88	3.68	20.20	38.45
				H	129.82	43.63	-7.88	3.68	<b>32.07</b>	38.45

#### Remark :

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

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
GSM 1900	1850.20	512	H	V	128.25	23.86	9.90	5.56	28.20	33.00
				H	127.77	23.59	9.90	5.56	27.93	33.00
			E1	V	125.71	21.32	9.90	5.56	25.66	33.00
				H	125.74	21.56	9.90	5.56	25.90	33.00
			E2	V	121.78	17.39	9.90	5.56	21.73	33.00
				H	128.59	24.41	9.90	5.84	28.47	33.00
	1880.00	661	H	V	127.90	23.54	9.99	5.61	27.92	33.00
				H	127.91	23.77	9.99	5.61	28.14	33.00
			E1	V	126.07	21.71	9.99	5.61	26.09	33.00
				H	124.69	20.55	9.99	5.61	24.92	33.00
			E2	V	121.30	16.94	9.99	5.61	21.32	33.00
				H	128.53	24.39	9.99	5.61	<b>28.76</b>	33.00
	1909.80	810	H	V	125.74	21.41	10.08	5.66	25.83	33.00
				H	126.30	22.19	10.08	5.66	26.61	33.00
			E1	V	124.51	20.18	10.08	5.66	24.60	33.00
				H	123.55	19.44	10.08	5.66	23.86	33.00
			E2	V	120.50	16.17	10.08	5.66	20.59	33.00
				H	126.98	22.87	10.08	5.66	27.29	33.00

**Remark :**

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

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
EDGE 850	824.20	128	H	V	125.32	38.93	-7.87	3.62	27.43	38.45
				H	118.95	32.68	-7.87	3.62	21.18	38.45
			E1	V	117.09	30.70	-7.87	3.62	19.20	38.45
				H	125.62	39.35	-7.87	3.62	27.85	38.45
			E2	V	112.53	26.14	-7.87	3.62	14.64	38.45
				H	127.06	40.79	-7.87	3.62	<b>29.29</b>	38.45
	836.60	190	H	V	125.47	39.22	-7.88	3.65	27.69	38.45
				H	119.11	32.88	-7.88	3.65	21.35	38.45
			E1	V	117.42	31.17	-7.88	3.65	19.64	38.45
				H	125.81	39.58	-7.88	3.65	28.05	38.45
			E2	V	113.60	27.35	-7.88	3.65	15.82	38.45
				H	126.84	40.61	-7.88	3.65	29.08	38.45
	848.80	251	H	V	125.07	38.95	-7.88	3.68	27.39	38.45
				H	119.31	33.12	-7.88	3.68	21.56	38.45
			E1	V	117.20	31.08	-7.88	3.68	19.52	38.45
				H	125.60	39.41	-7.88	3.68	27.85	38.45
			E2	V	114.68	28.56	-7.88	3.68	17.00	38.45
				H	126.25	40.06	-7.88	3.68	28.50	38.45

**Remark :**

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

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
EDGE 1900	1850.20	512	H	V	127.93	23.54	9.90	5.56	27.88	33.00
				H	126.08	21.90	9.90	5.56	26.24	33.00
			E1	V	126.17	21.78	9.90	5.56	26.12	33.00
				H	124.21	20.03	9.90	5.56	24.37	33.00
			E2	V	121.37	16.98	9.90	5.56	21.32	33.00
				H	127.84	23.66	9.90	5.84	27.72	33.00
	1880.00	661	H	V	127.40	23.04	9.99	5.61	27.42	33.00
				H	125.35	21.21	9.99	5.61	25.58	33.00
			E1	V	125.44	21.08	9.99	5.61	25.46	33.00
				H	124.43	20.29	9.99	5.61	24.66	33.00
			E2	V	120.83	16.47	9.99	5.61	20.85	33.00
				H	127.66	23.52	9.99	5.61	<b>27.89</b>	33.00
	1909.80	810	H	V	126.09	21.76	10.08	5.66	26.18	33.00
				H	123.71	19.60	10.08	5.66	24.02	33.00
			E1	V	124.05	19.72	10.08	5.66	24.14	33.00
				H	123.12	19.01	10.08	5.66	23.43	33.00
			E2	V	119.82	15.49	10.08	5.66	19.91	33.00
				H	126.25	22.14	10.08	5.66	26.56	33.00

**Remark :**

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

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
WCDMA Band II	1852.40	9262	H	V	121.93	17.55	9.90	5.56	21.88	33.00
				H	119.94	15.76	9.90	5.56	20.10	33.00
			E1	V	120.27	15.89	9.90	5.56	20.22	33.00
				H	119.15	14.97	9.90	5.56	19.31	33.00
			E2	V	117.80	13.42	9.90	5.56	17.75	33.00
				H	121.36	17.18	9.90	5.84	21.24	33.00
	1880.00	9400	H	V	121.69	17.33	9.99	5.61	21.71	33.00
				H	119.71	15.57	9.99	5.61	19.94	33.00
			E1	V	119.40	15.01	9.90	5.56	19.35	33.00
				H	117.95	13.81	9.99	5.61	18.18	33.00
			E2	V	118.18	13.82	9.99	5.61	18.20	33.00
				H	121.73	17.59	9.99	5.61	21.96	33.00
	1907.60	9538	H	V	122.11	17.78	10.07	5.66	<b>22.19</b>	33.00
				H	120.13	16.02	10.07	5.66	20.43	33.00
			E1	V	119.82	15.49	10.07	5.66	19.90	33.00
				H	118.07	13.96	10.07	5.66	18.37	33.00
			E2	V	118.83	14.50	10.07	5.66	18.91	33.00
				H	121.77	17.66	10.07	5.66	22.07	33.00

**Remark :**

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

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
WCDMA Band V	826.40	4132	H	V	17.68	3.97	-4.22	17.42	38.45
				H	18.78	3.97	-4.22	18.53	38.45
			E1	V	18.34	4.00	-4.24	18.10	38.45
				H	11.71	4.00	-4.24	11.47	38.45
			E2	V	17.87	4.02	-4.24	17.65	38.45
				H	11.65	4.02	-4.24	11.43	38.45
	836.60	4183	H	V	14.65	3.97	-4.22	14.39	38.45
				H	22.95	3.97	-4.22	22.69	38.45
			E1	V	14.32	3.99	-4.24	14.08	38.45
				H	23.22	3.99	-4.24	<b>22.98</b>	38.45
			E2	V	13.79	4.02	-4.24	13.57	38.45
				H	22.80	4.02	-4.24	22.58	38.45
	846.60	4233	H	V	14.13	3.97	-4.22	13.88	38.45
				H	17.84	3.97	-4.22	17.59	38.45
			E1	V	12.84	3.99	-4.24	12.60	38.45
				H	17.87	3.99	-4.24	17.63	38.45
			E2	V	13.52	4.03	-4.33	13.22	38.45
				H	18.00	4.02	-4.24	17.78	38.45

**Remark :**

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

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
HSUPA Band II	1852.40	9262	H	V	118.27	13.89	9.90	5.56	18.22	33.00
				H	120.37	16.19	9.90	5.56	20.53	33.00
			E1	V	119.61	15.23	9.90	5.56	19.56	33.00
				H	115.25	11.07	9.90	5.56	15.41	33.00
			E2	V	113.47	9.09	9.90	5.56	13.42	33.00
				H	122.54	18.36	9.90	5.84	22.42	33.00
	1880.00	9400	H	V	118.86	14.50	9.99	5.61	18.88	33.00
				H	120.86	16.72	9.99	5.61	21.09	33.00
			E1	V	118.73	14.34	9.90	5.56	18.68	33.00
				H	116.13	11.99	9.99	5.61	16.36	33.00
			E2	V	114.31	9.95	9.99	5.61	14.33	33.00
				H	122.23	18.09	9.99	5.61	<b>22.46</b>	33.00
	1907.60	9538	H	V	118.99	14.66	10.07	5.66	19.07	33.00
				H	121.24	17.13	10.07	5.66	21.54	33.00
			E1	V	118.91	14.58	10.07	5.66	18.99	33.00
				H	118.31	14.20	10.07	5.66	18.61	33.00
			E2	V	115.90	11.57	10.07	5.66	15.98	33.00
				H	121.86	17.75	10.07	5.66	22.16	33.00

**Remark :**

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

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
HSUPA Band V	826.40	4132	H	V	18.83	3.97	-4.22	18.57	38.45
				H	18.79	3.97	-4.22	18.53	38.45
			E1	V	17.97	4.00	-4.24	17.73	38.45
				H	12.01	4.00	-4.24	11.77	38.45
			E2	V	18.84	4.02	-4.24	18.62	38.45
				H	12.09	4.02	-4.24	11.87	38.45
	836.60	4183	H	V	14.24	3.97	-4.22	13.99	38.45
				H	22.30	3.97	-4.22	22.04	38.45
			E1	V	14.84	3.99	-4.24	14.60	38.45
				H	22.85	3.99	-4.24	<b>22.61</b>	38.45
			E2	V	14.58	4.02	-4.24	14.37	38.45
				H	22.46	4.02	-4.24	22.25	38.45
	846.60	4233	H	V	14.76	3.97	-4.22	14.51	38.45
				H	18.32	3.97	-4.22	18.07	38.45
			E1	V	14.05	3.99	-4.24	13.80	38.45
				H	18.09	3.99	-4.24	17.85	38.45
			E2	V	13.46	4.02	-4.24	13.25	38.45
				H	18.83	4.02	-4.33	18.52	38.45

**Remark :**

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

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
HSDPA Band II	1852.40	9262	H	V	120.01	15.63	9.90	5.56	19.96	33.00
				H	121.96	17.78	9.90	5.56	22.12	33.00
			E1	V	120.94	16.56	9.90	5.56	20.89	33.00
				H	119.87	15.69	9.90	5.56	20.03	33.00
			E2	V	116.15	11.77	9.90	5.56	16.10	33.00
				H	122.76	18.58	9.90	5.84	22.64	33.00
	1880.00	9400	H	V	119.97	15.61	9.99	5.61	19.99	33.00
				H	122.32	18.18	9.99	5.61	22.55	33.00
			E1	V	121.17	16.78	9.90	5.56	21.12	33.00
				H	119.85	15.71	9.99	5.61	20.08	33.00
			E2	V	116.26	11.90	9.99	5.61	16.28	33.00
				H	122.72	18.58	9.99	5.61	22.95	33.00
	1907.60	9538	H	V	120.14	15.81	10.07	5.66	20.22	33.00
				H	122.88	18.77	10.07	5.66	<b>23.18</b>	33.00
			E1	V	121.24	16.91	10.07	5.66	21.32	33.00
				H	119.39	15.28	10.07	5.66	19.69	33.00
			E2	V	116.69	12.36	10.07	5.66	16.77	33.00
				H	122.73	18.62	10.07	5.66	23.03	33.00

**Remark :**

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

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
HSDPA Band V	826.40	4132	H	V	18.83	3.97	-4.22	18.58	38.45
				H	18.72	3.97	-4.22	18.47	38.45
			E1	V	18.23	4.00	-4.24	18.00	38.45
				H	12.22	4.00	-4.24	11.98	38.45
			E2	V	18.84	4.02	-4.24	18.62	38.45
				H	12.09	4.02	-4.24	11.87	38.45
	836.60	4183	H	V	14.24	3.97	-4.22	13.98	38.45
				H	22.19	3.97	-4.22	21.94	38.45
			E1	V	14.89	3.99	-4.24	14.65	38.45
				H	22.85	3.99	-4.24	<b>22.61</b>	38.45
			E2	V	14.57	4.02	-4.24	14.35	38.45
				H	22.44	4.02	-4.24	22.22	38.45
	846.60	4233	H	V	14.83	3.97	-4.22	14.58	38.45
				H	18.25	3.97	-4.22	17.99	38.45
			E1	V	13.87	3.99	-4.24	13.63	38.45
				H	18.70	3.99	-4.24	18.46	38.45
			E2	V	13.54	4.02	-4.33	13.24	38.45
				H	18.38	4.02	-4.24	18.17	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 5.2 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	245.2236
	836.60	190	247.7951
	848.80	251	245.4182

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (KHz)
GSM 1900	1850.20	512	243.5979
	1880.00	661	243.2435
	1909.80	810	244.3901

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (KHz)
GPRS 850	824.20	128	247.9550
	836.60	190	241.9267
	848.80	251	241.6984

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (KHz)
GPRS 1900	1850.20	512	241.2719
	1880.00	661	244.6481
	1909.80	810	243.4733

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (KHz)
EDGE 850	824.20	128	258.1048
	836.60	190	247.1105
	848.80	251	247.9597

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (KHz)
EDGE 1900	1850.20	512	239.0208
	1880.00	661	243.3243
	1909.80	810	243.0454

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA Band II	1852.40	9262	4.1299
	1880.00	9400	4.1417
	1907.60	9538	4.1229

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA Band V	826.40	4132	4.2020
	836.60	4183	4.2388
	846.60	4233	4.2049

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA Band II	1852.40	9262	4.1647
	1880.00	9400	4.1502
	1907.60	9538	4.1350

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA Band V	826.40	4132	4.1930
	836.60	4183	4.1809
	846.60	4233	4.1813

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA Band II	1852.40	9262	4.1434
	1880.00	9400	4.1582
	1907.60	9538	4.1230

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA Band V	826.40	4132	4.1865
	836.60	4183	4.1830
	846.60	4233	4.1880

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Figure 8-1: GSM 850 Channel Low

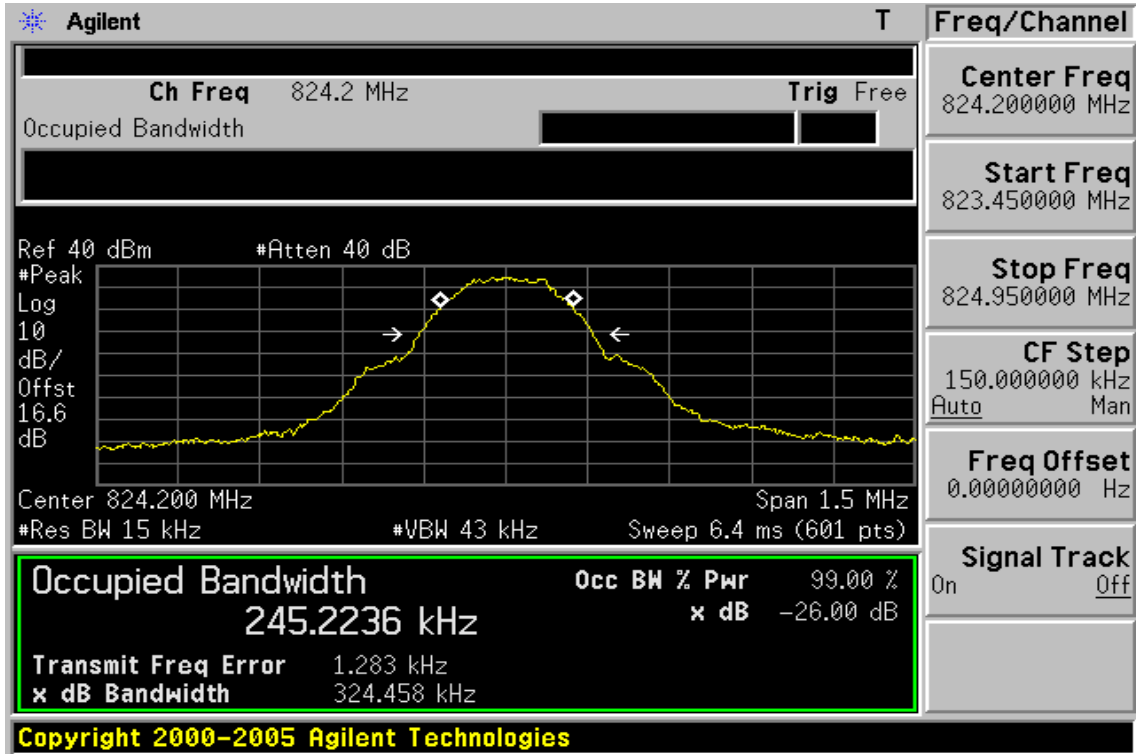
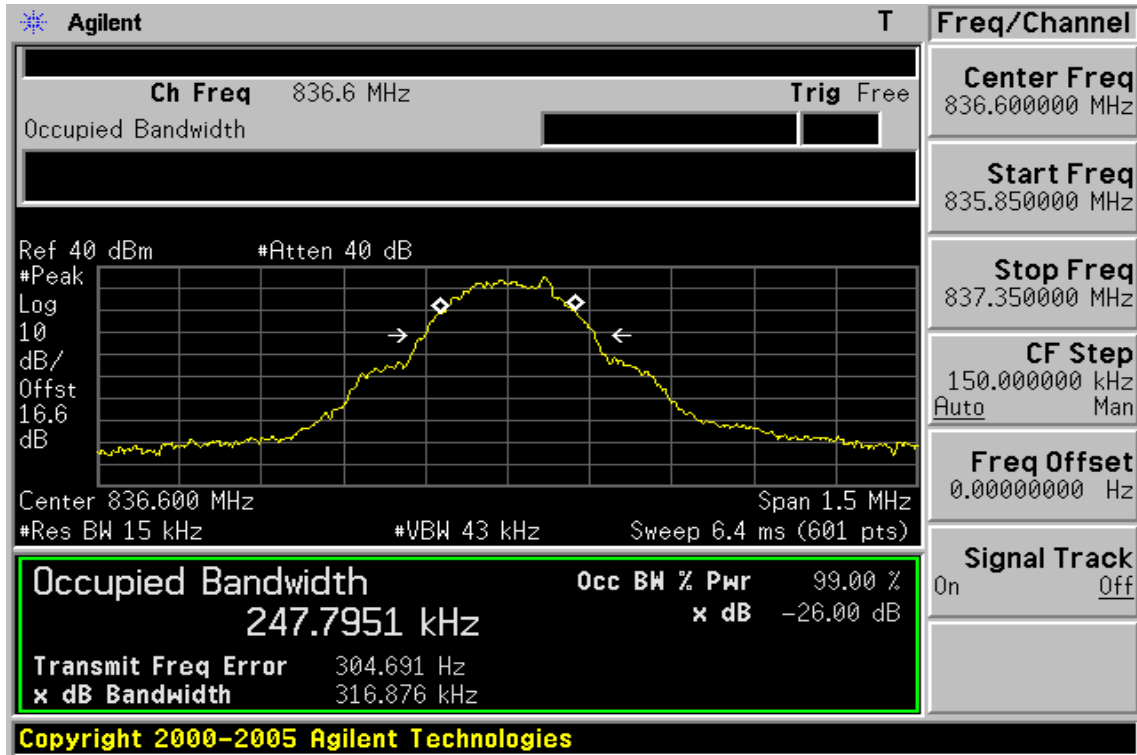


Figure 8-2: GSM 850 Channel Mid



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Figure 8-3: GSM 850 Channel High

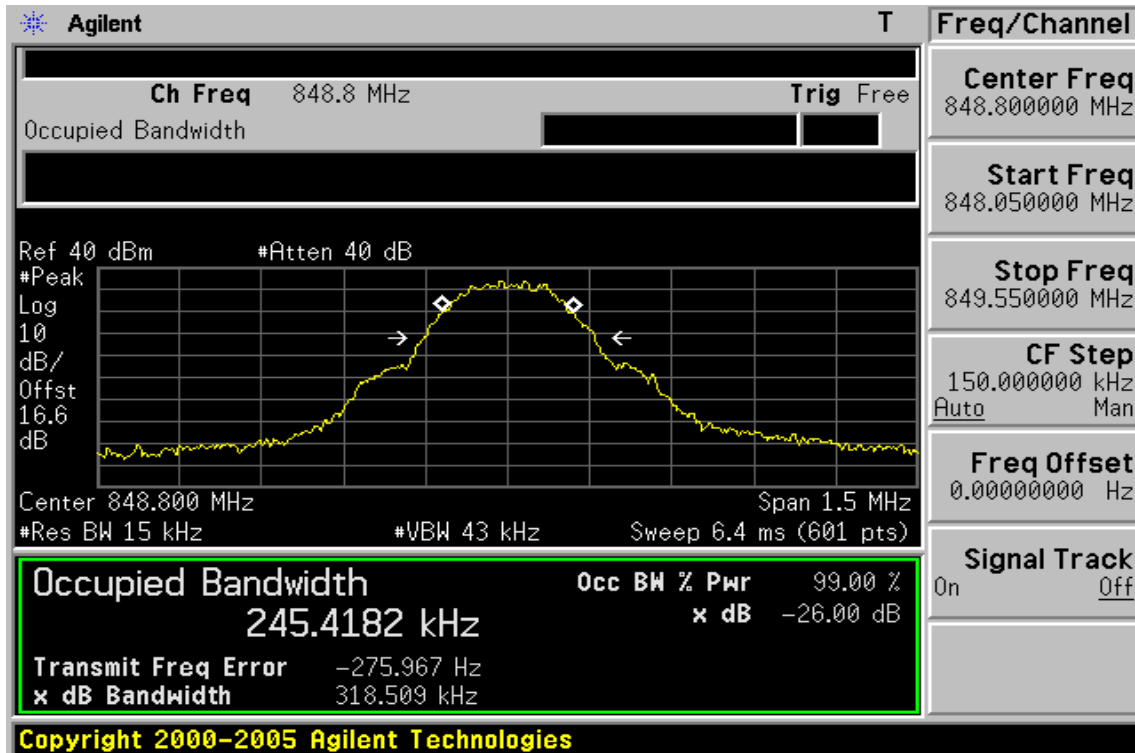
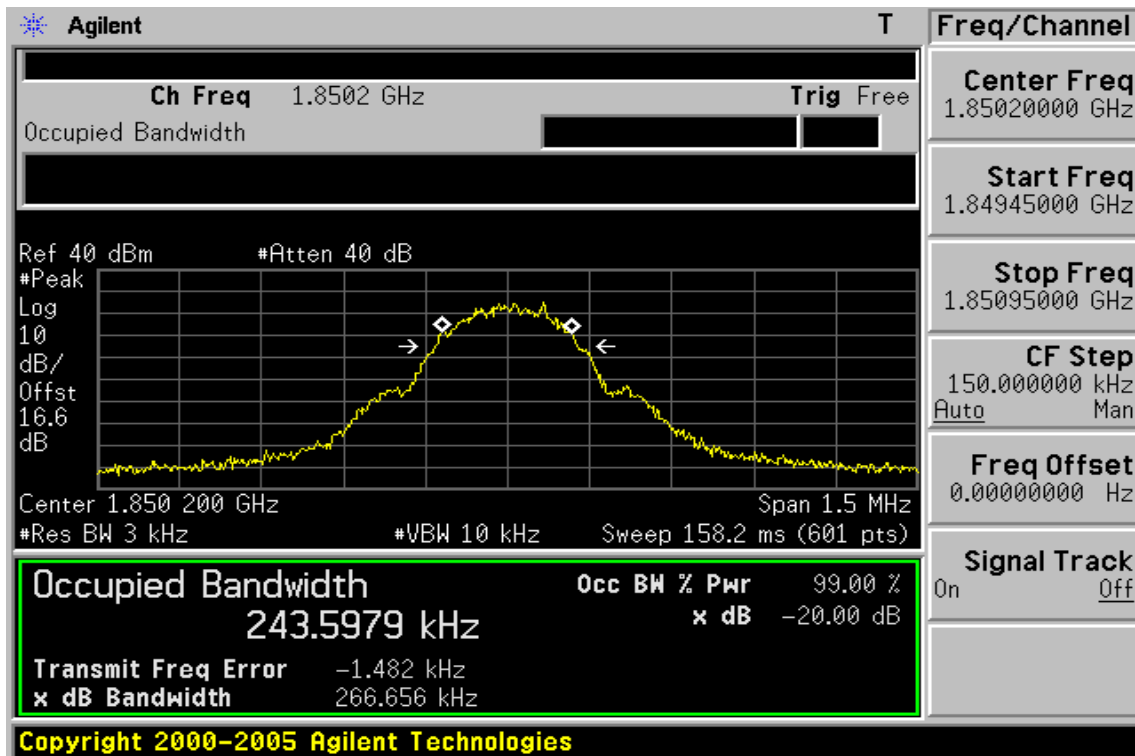


Figure 8-4: GSM 1900 Channel Low



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Figure 8-5: GSM 1900 Channel Mid

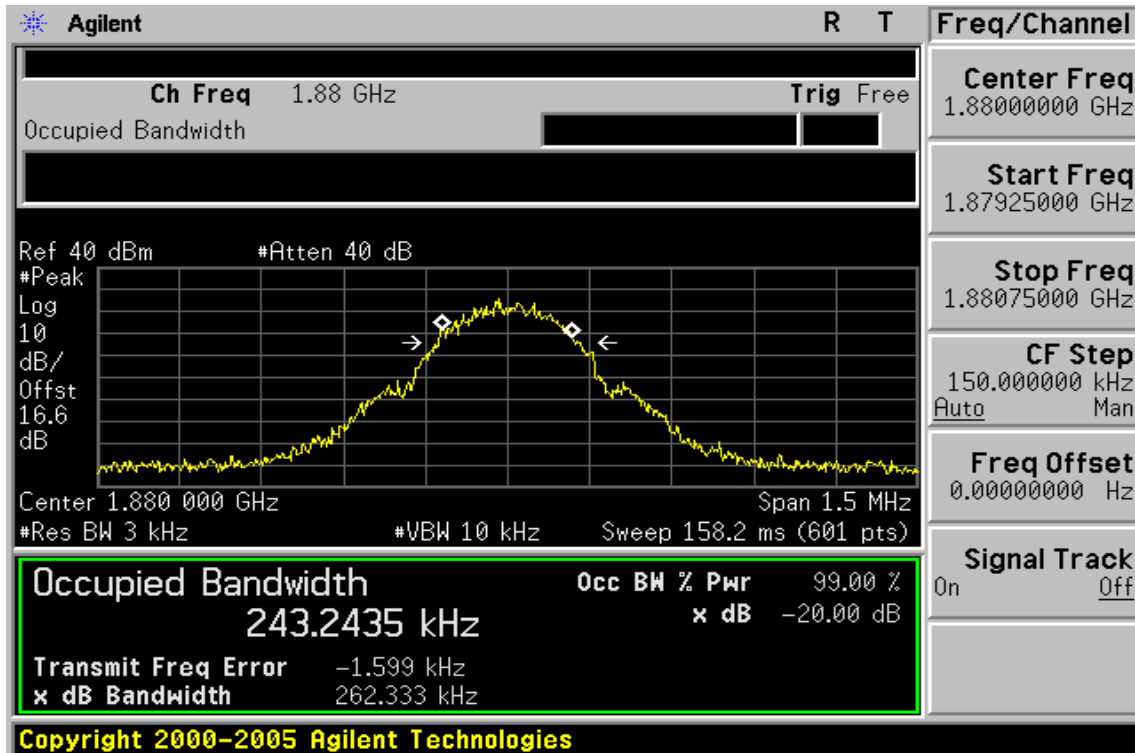
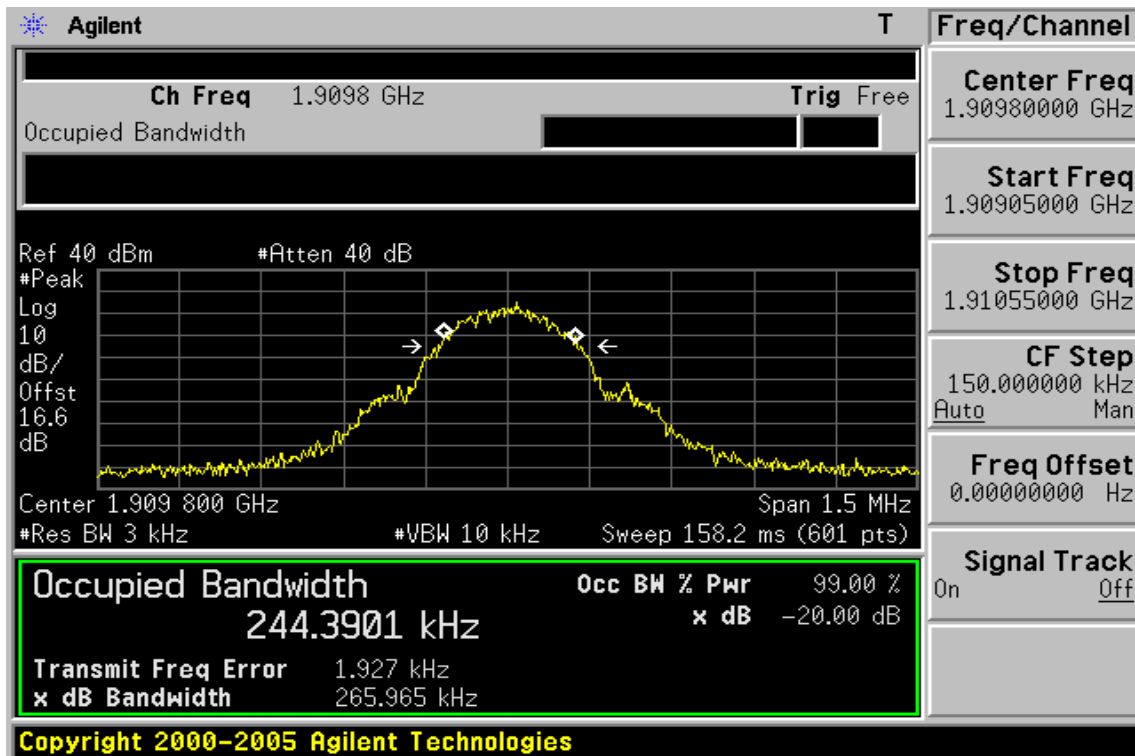


Figure 8-6: GSM 1900 Channel High



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Figure 8-7: GPRS 850 Channel Low

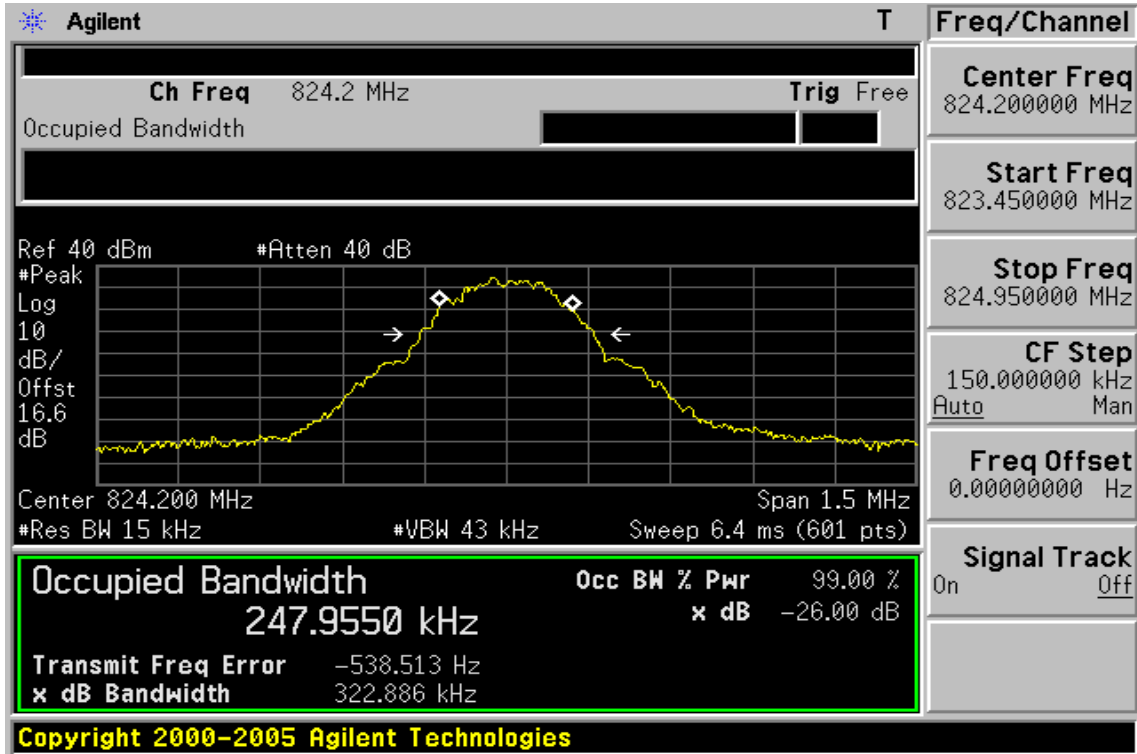
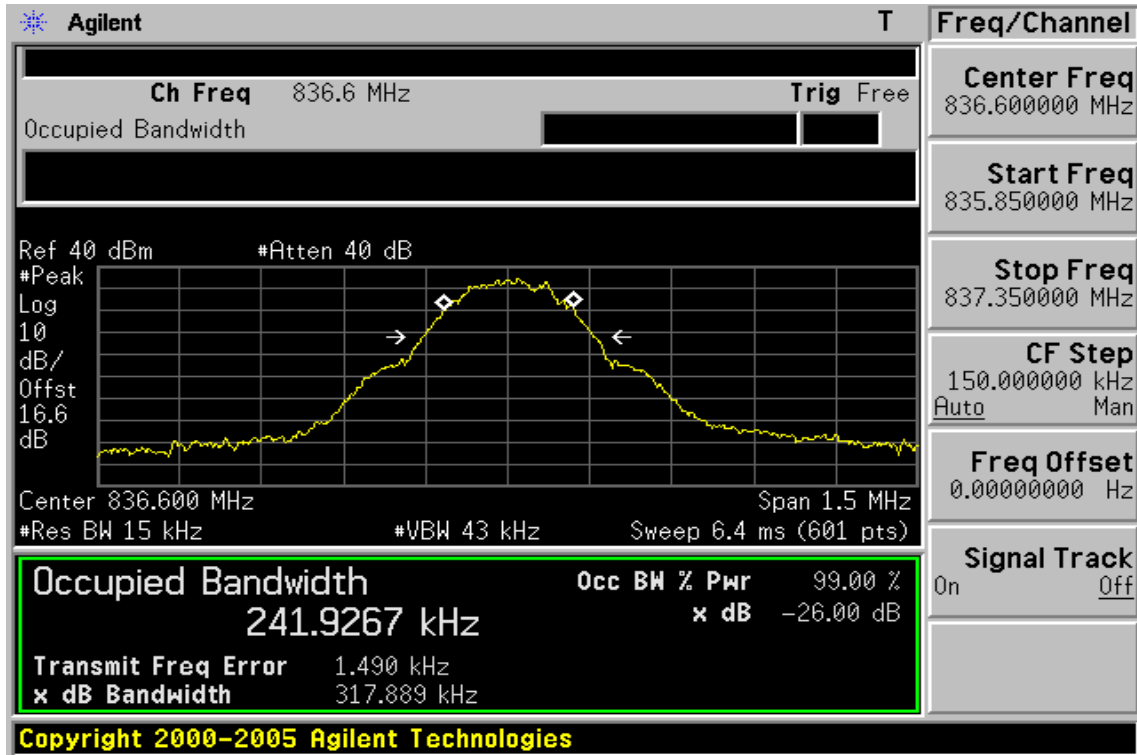


Figure 8-8: GPRS 850 Channel Mid



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Figure 8-9: GPRS 850 Channel High

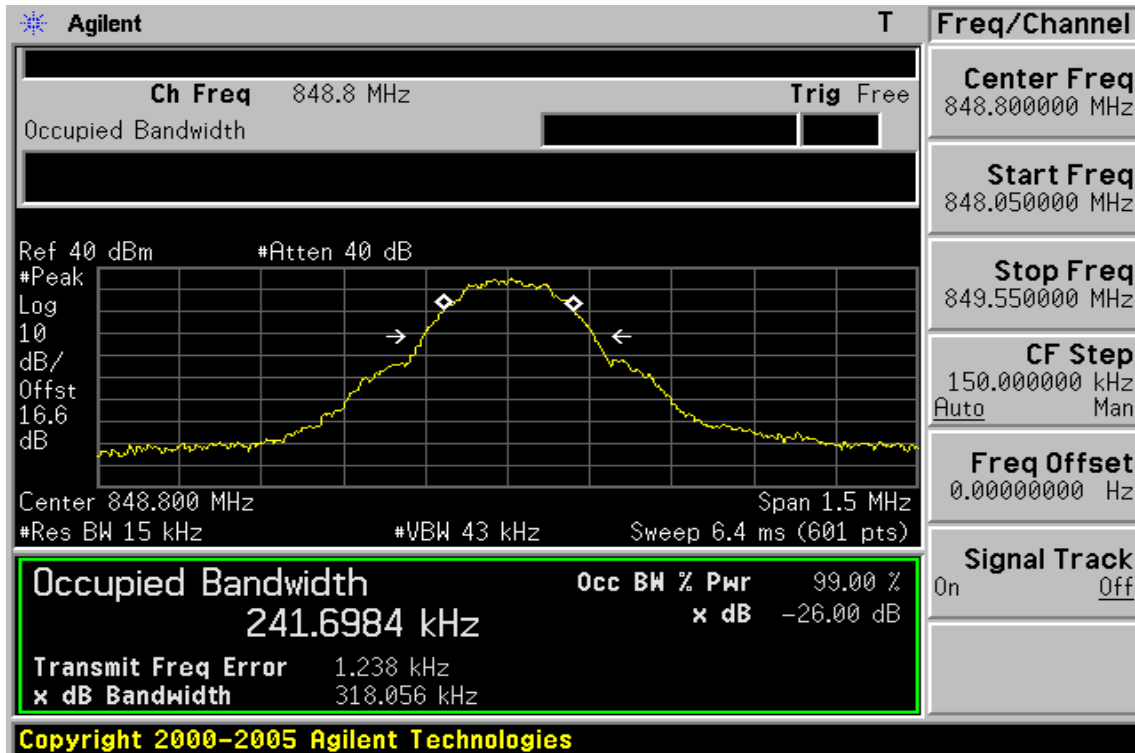
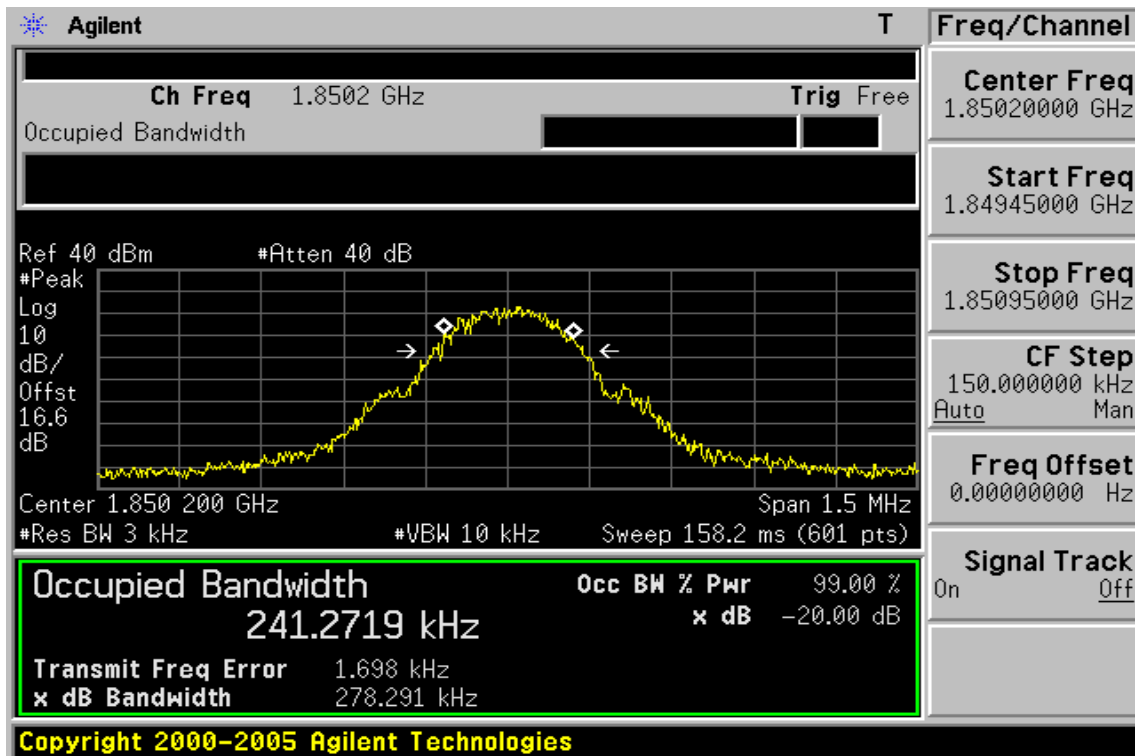


Figure 8-10: GPRS 1900 Channel Low



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Figure 8-11 GPRS 1900 Channel Mid

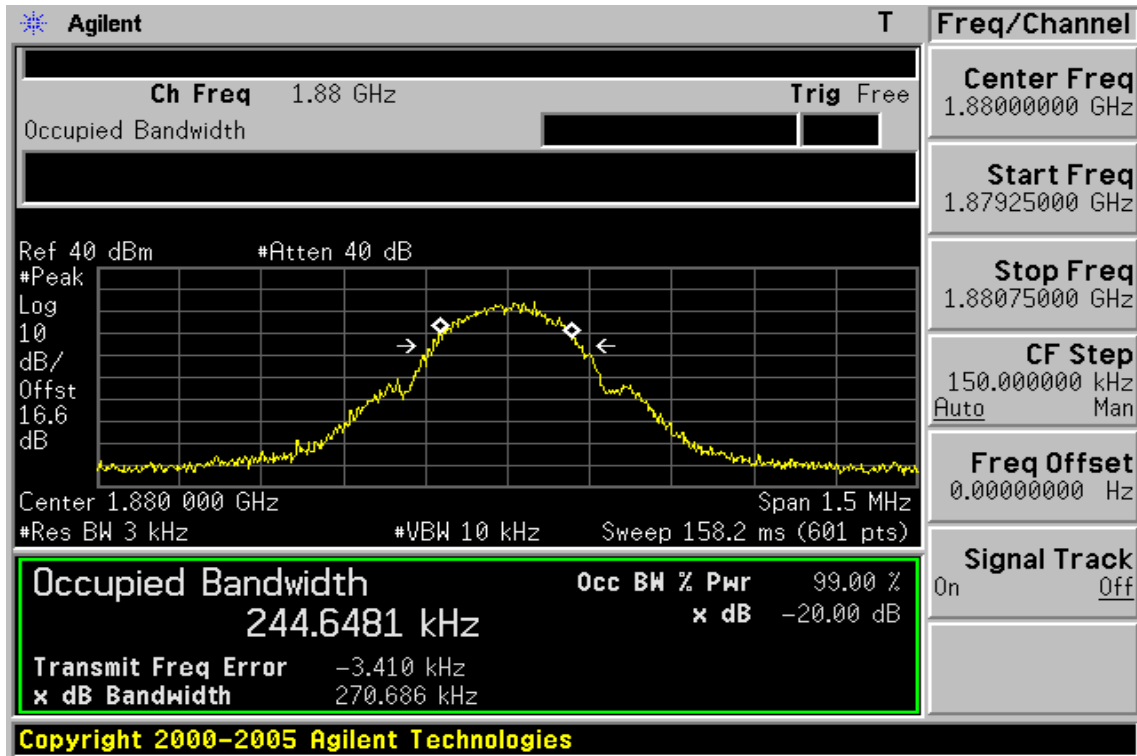
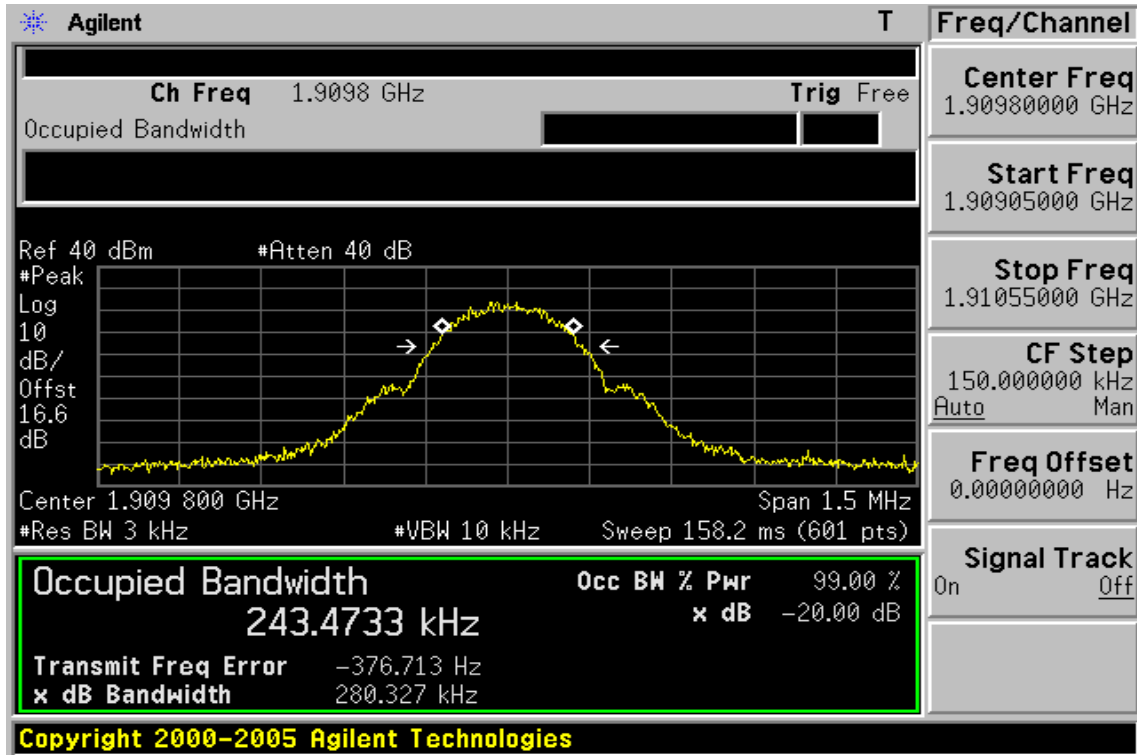


Figure 8-12: GPRS 1900 Channel High



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Figure 8-13: EDGE 850 Channel Low

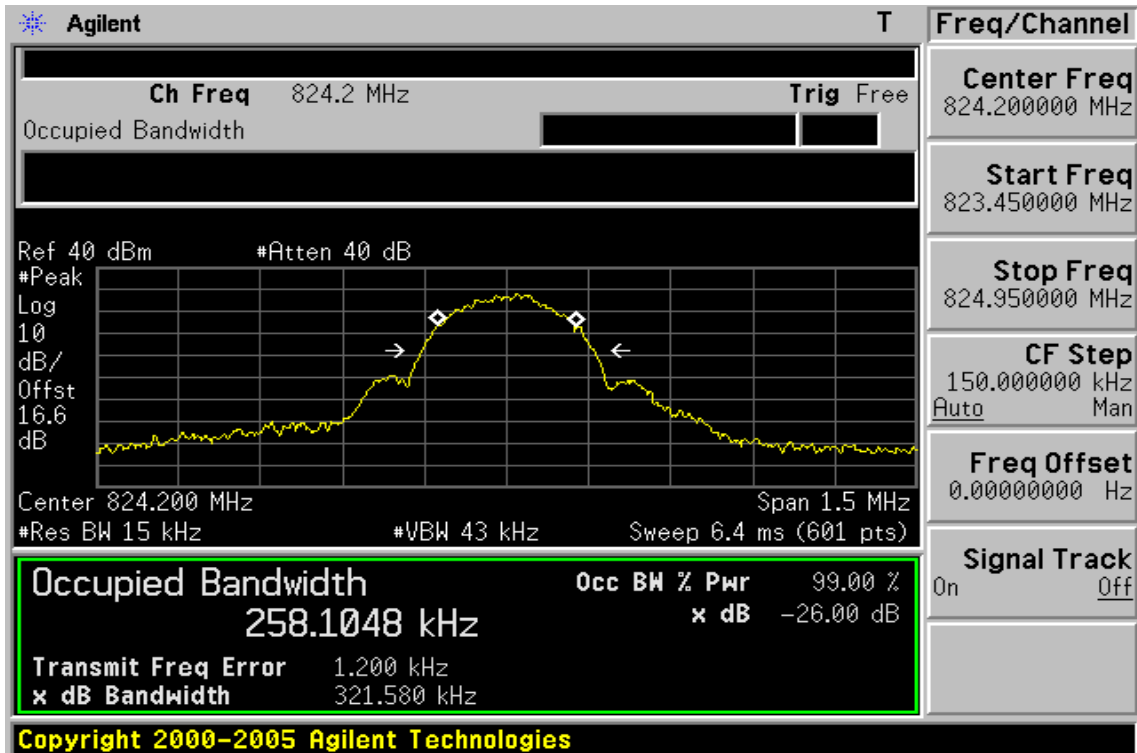
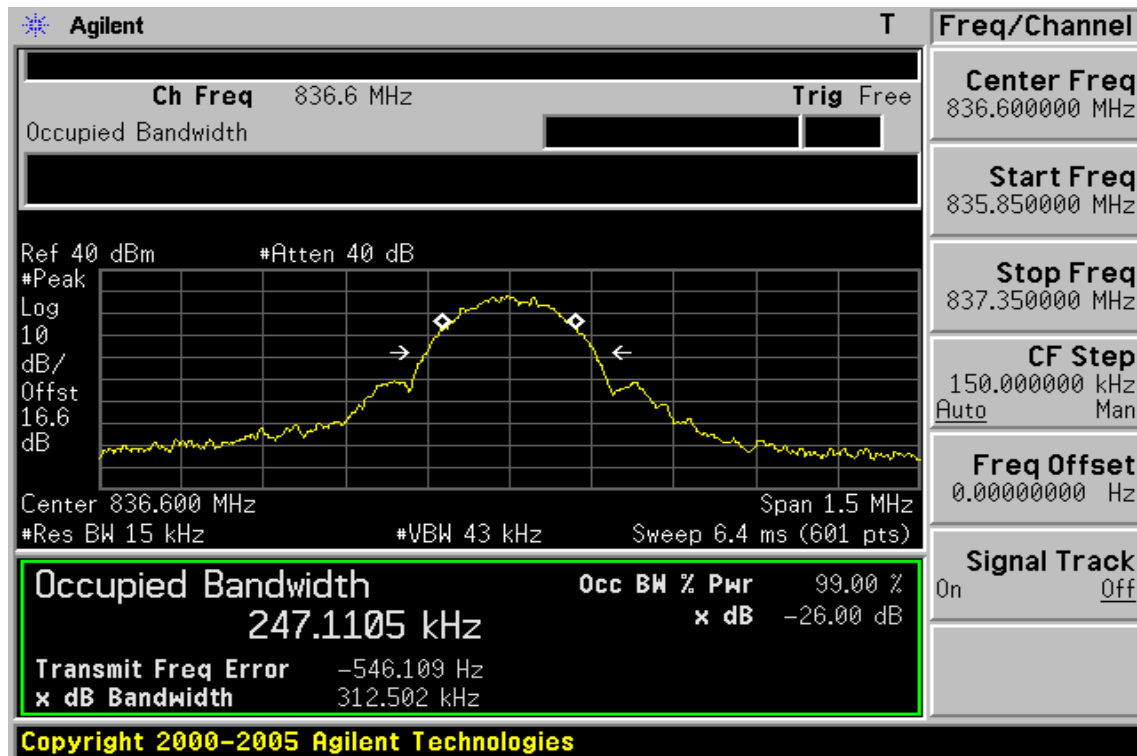


Figure 8-14 EDGE 850 Channel Mid



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Figure 8-15: EDGE 850 Channel High

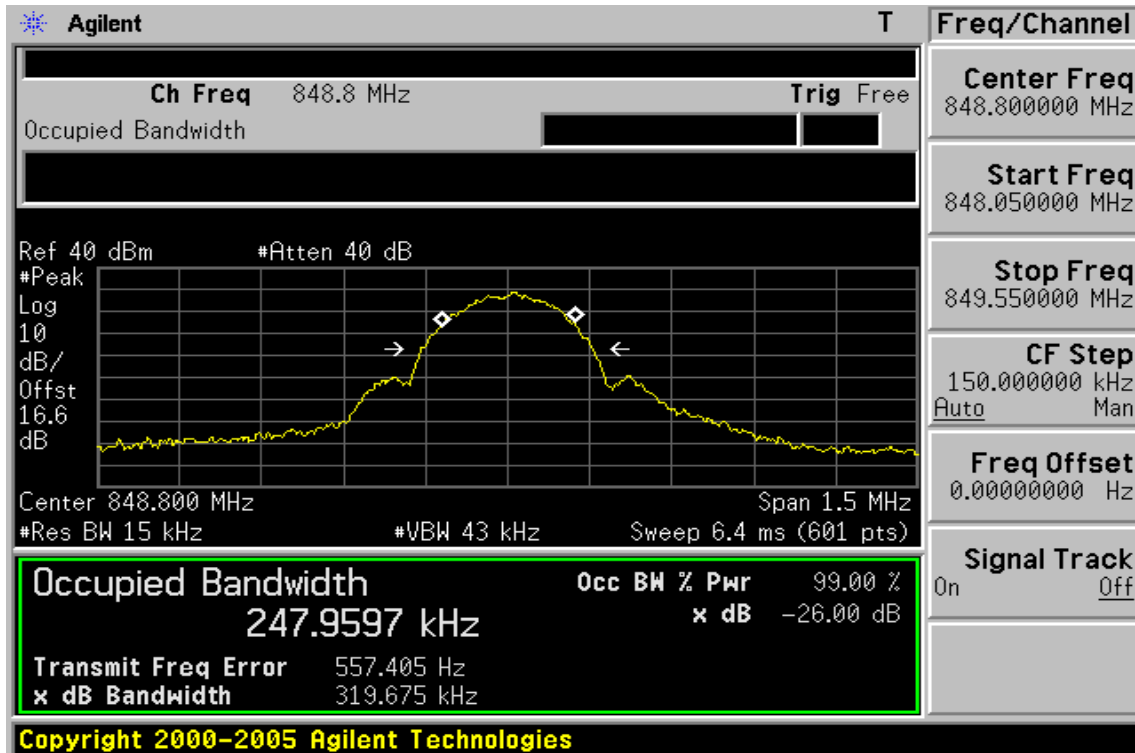
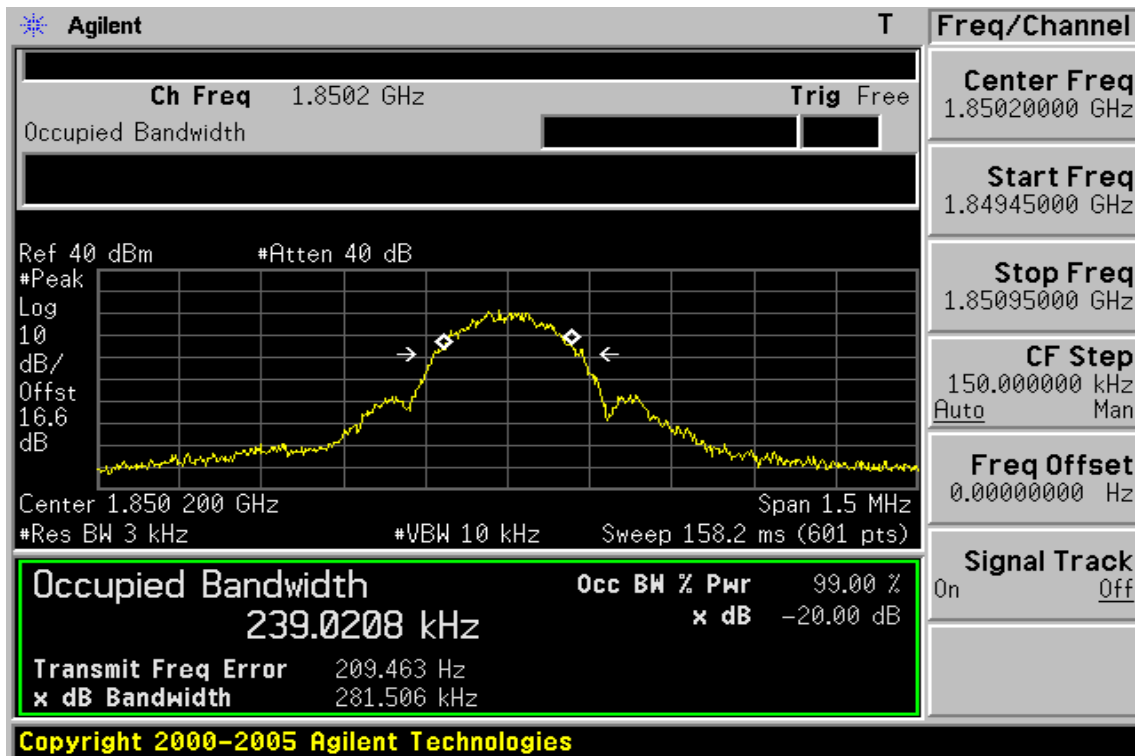


Figure 8-16: EDGE 1900 Channel Low



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Figure 8-17 EDGE 1900 Channel Mid

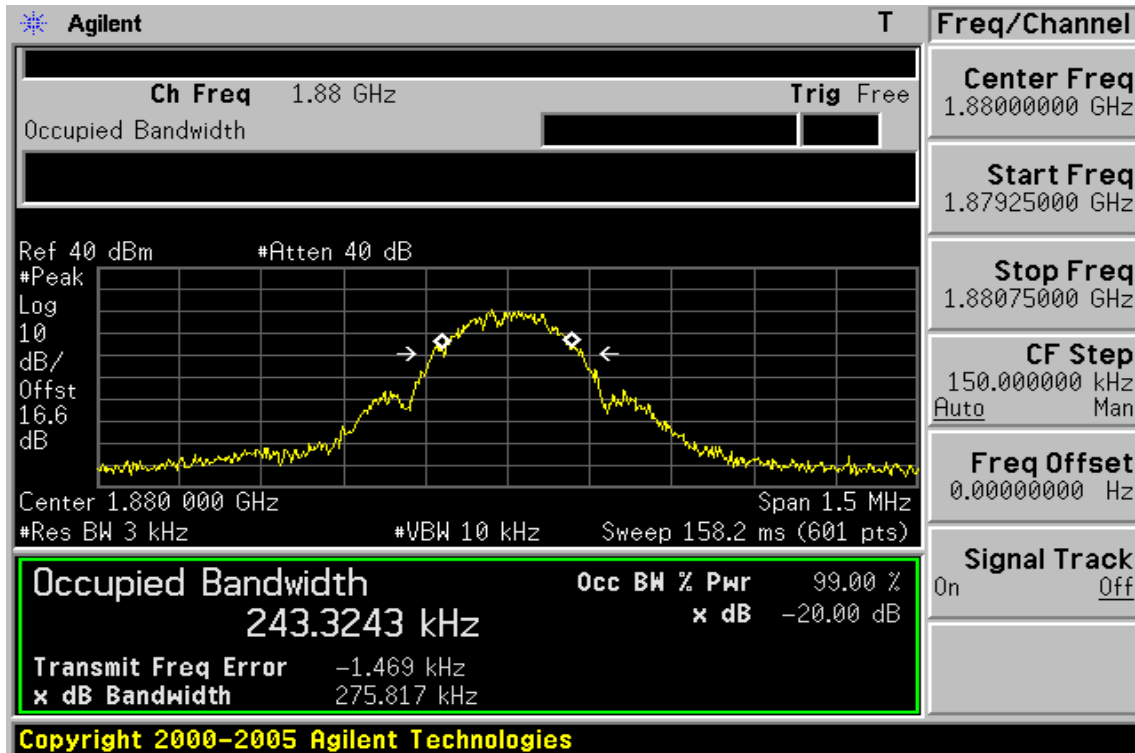
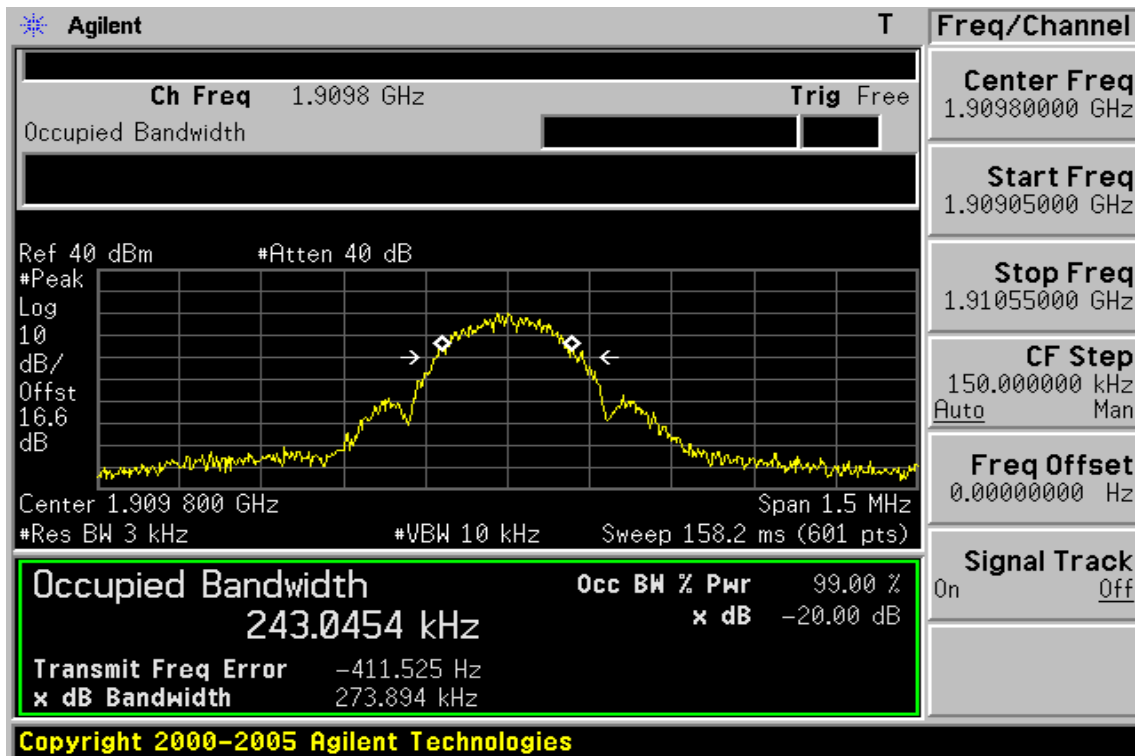


Figure 8-18: EDGE 1900 Channel High



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Figure 8-19: WCDMA Band II Channel Low

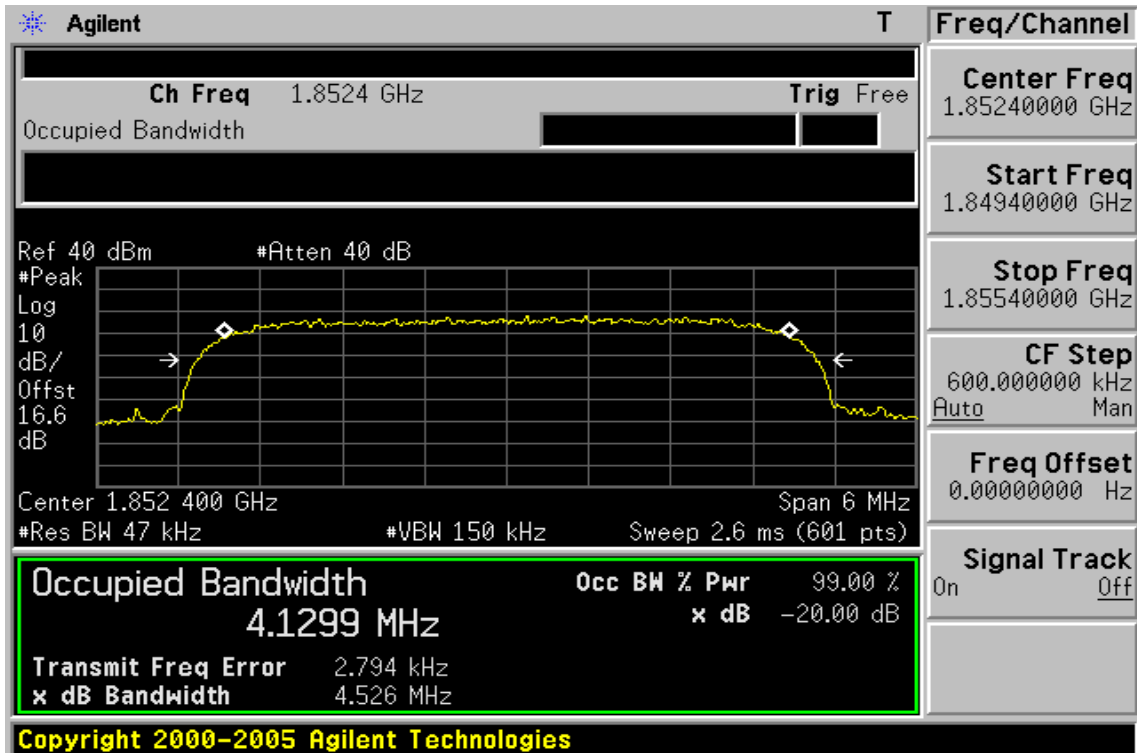
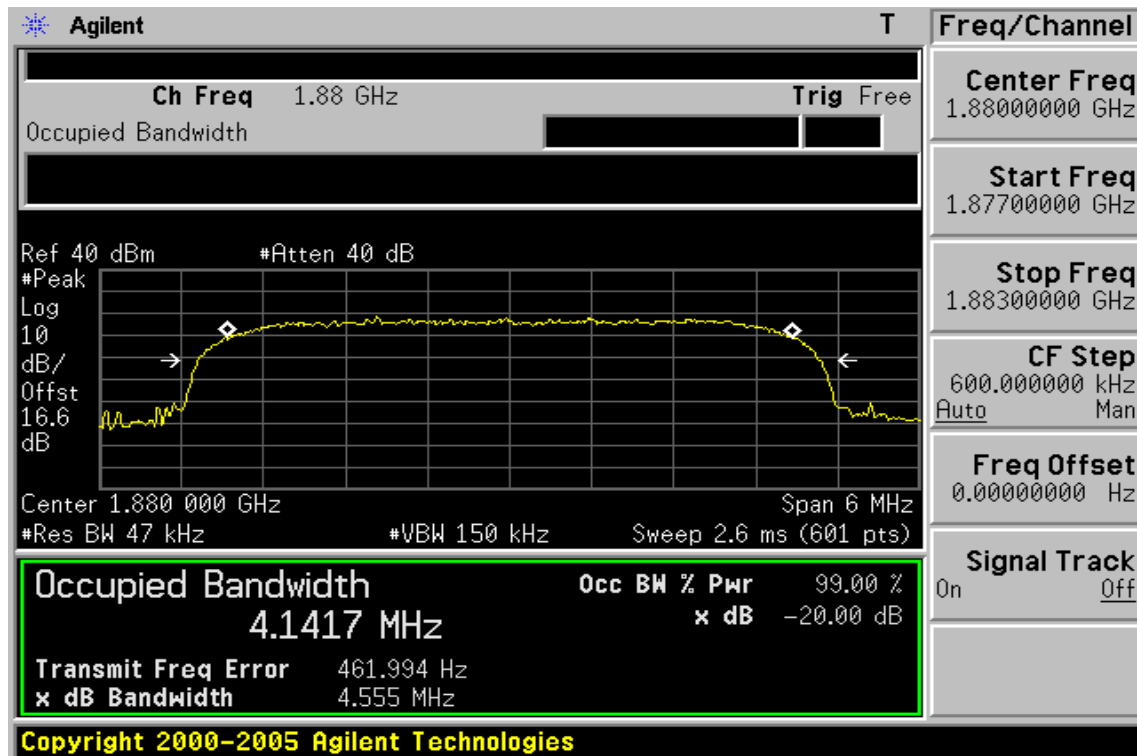


Figure 8-20: WCDMA Band II Channel Mid



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Figure 8-21: WCDMA Band II Channel High

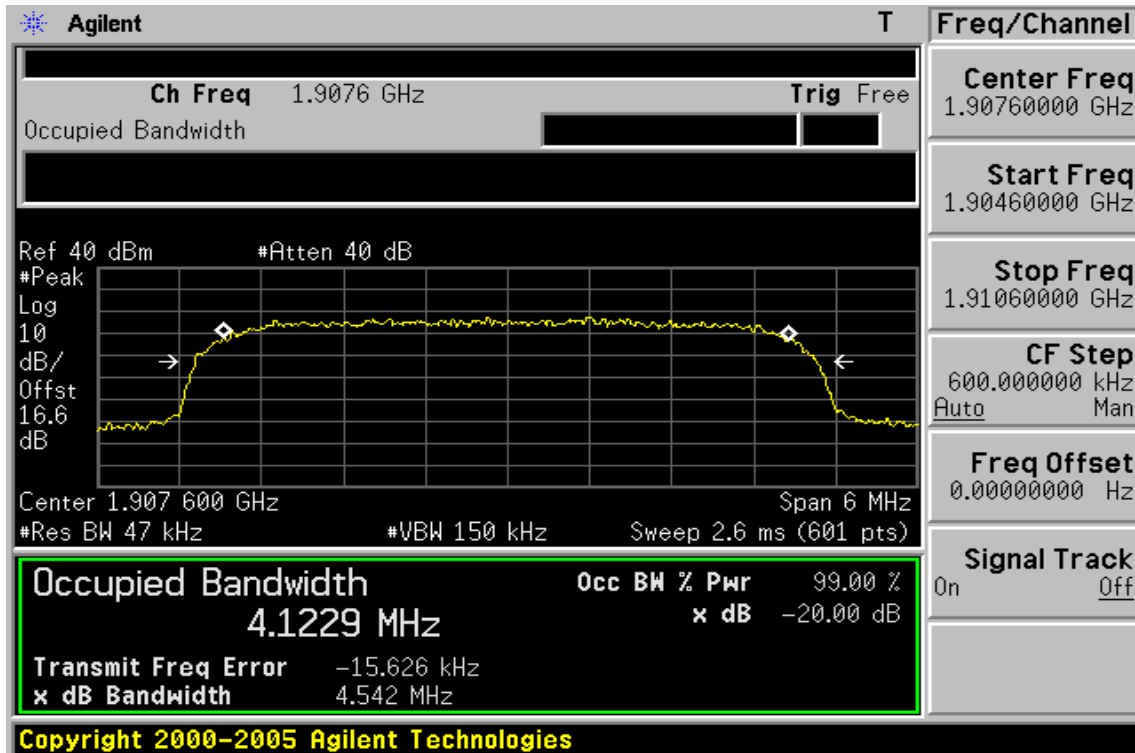
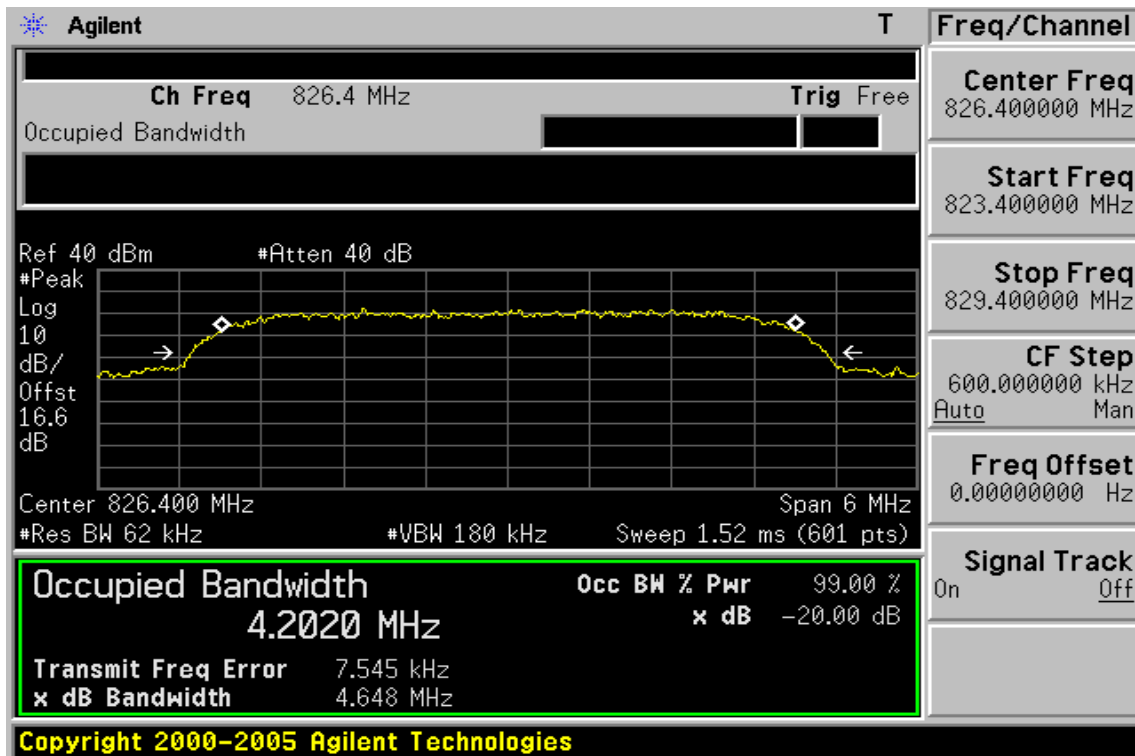


Figure 8-22: WCDMA Band V Channel Low



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Figure 8-23: WCDMA Band V Channel Mid

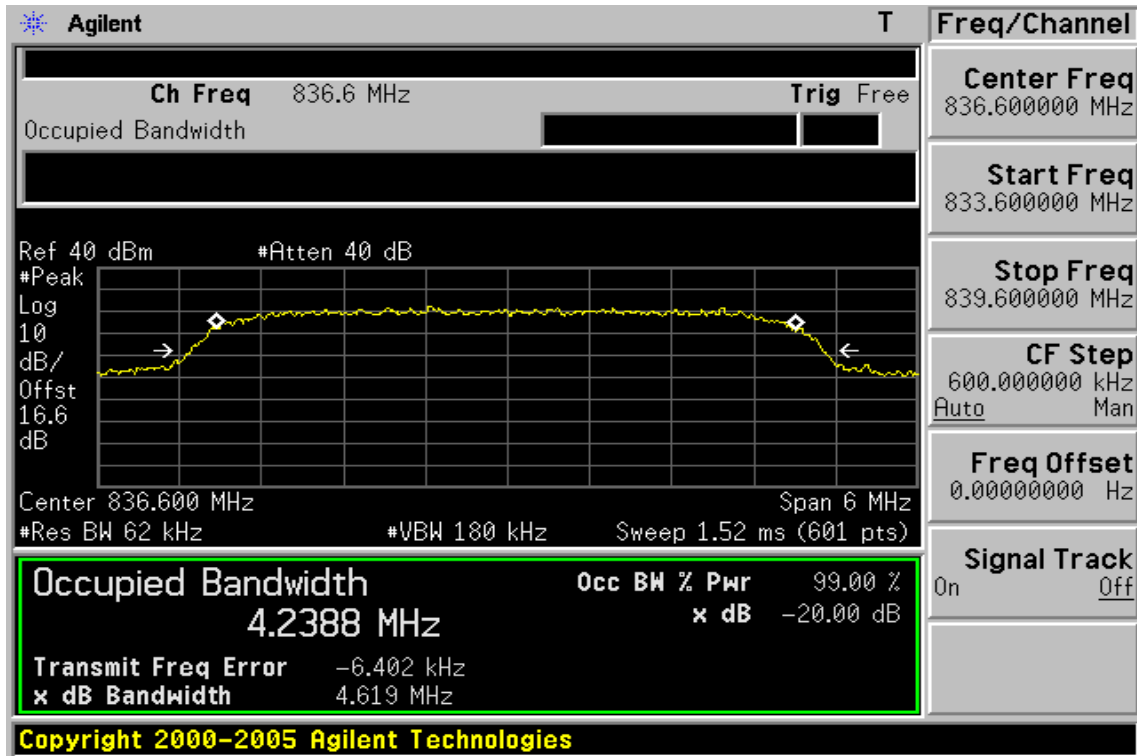
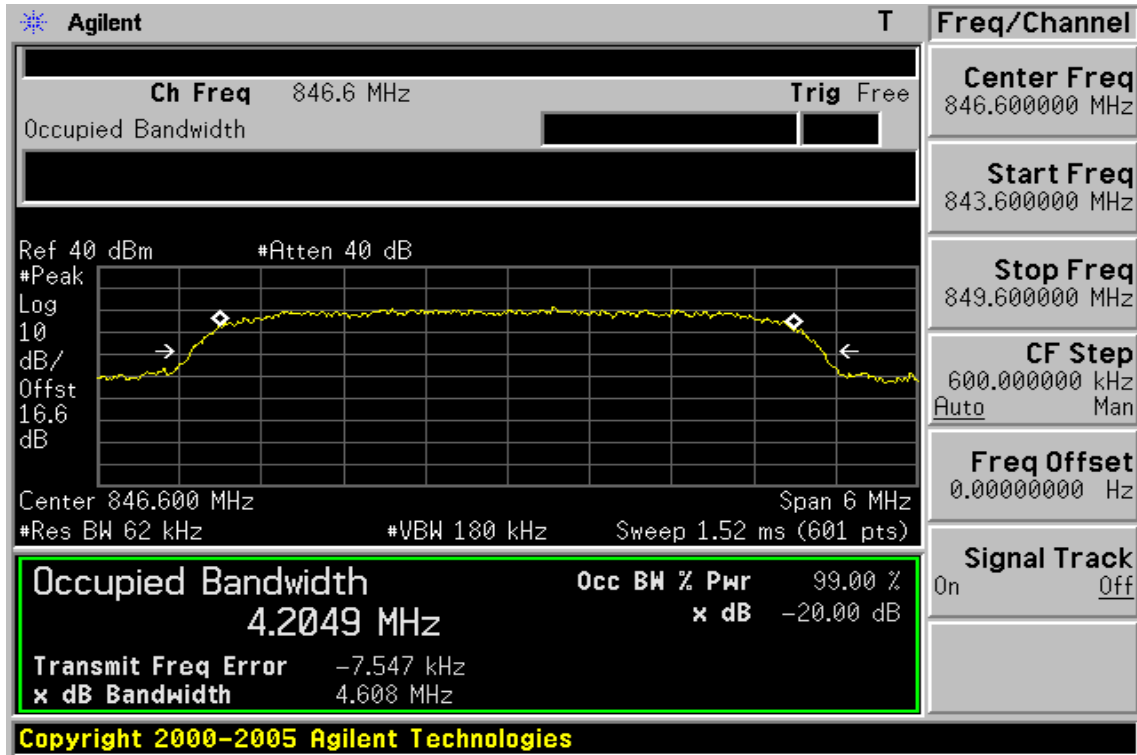


Figure 8-24: WCDMA Band V Channel High



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Figure 8-25: HSUPA Band II Channel Low

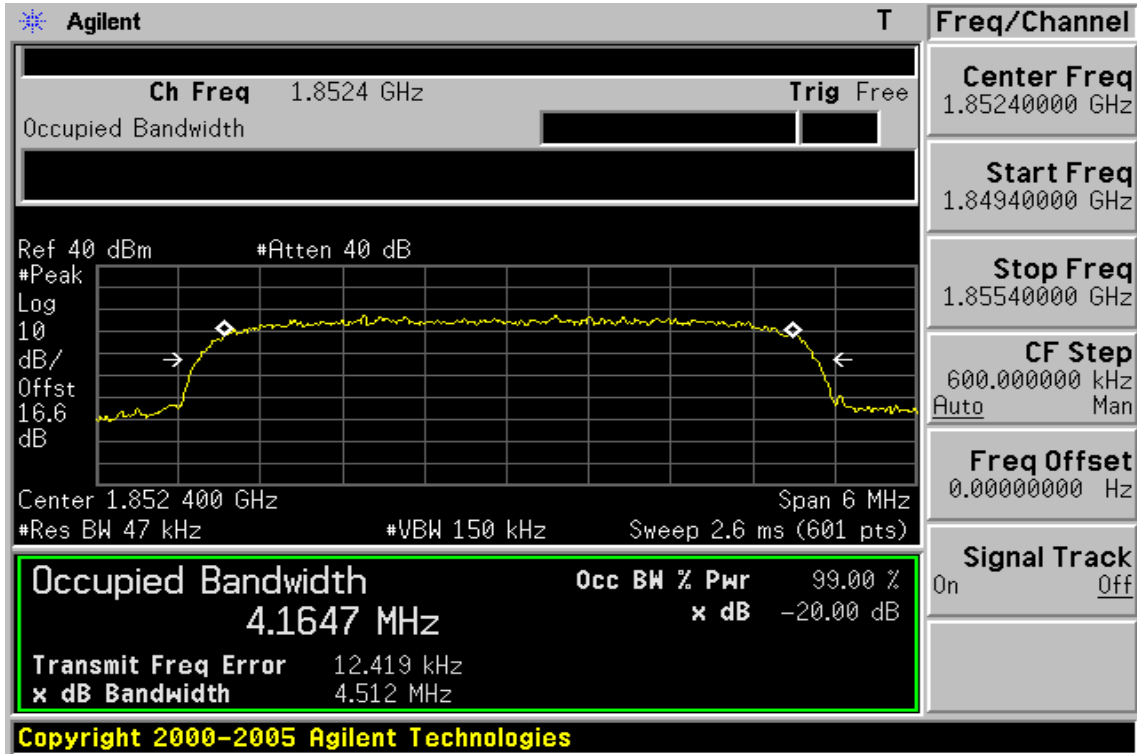
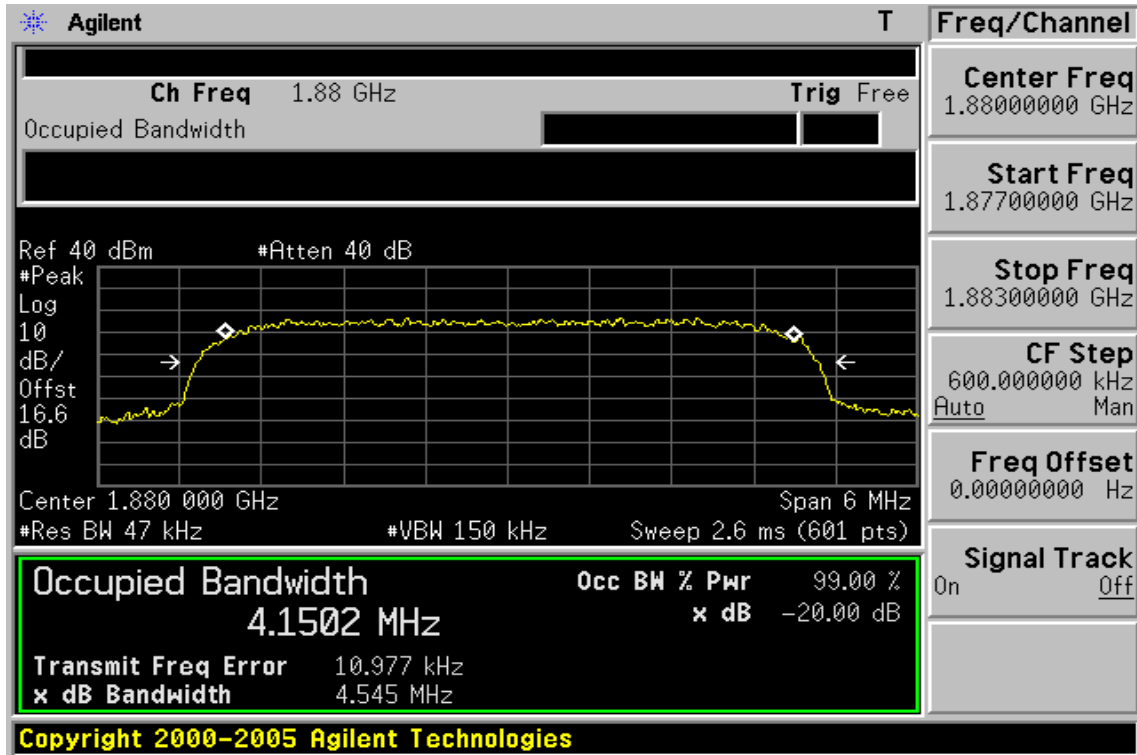


Figure 8-26: HSUPA Band II Channel Mid



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Figure 8-27: HSUPA Band II Channel High

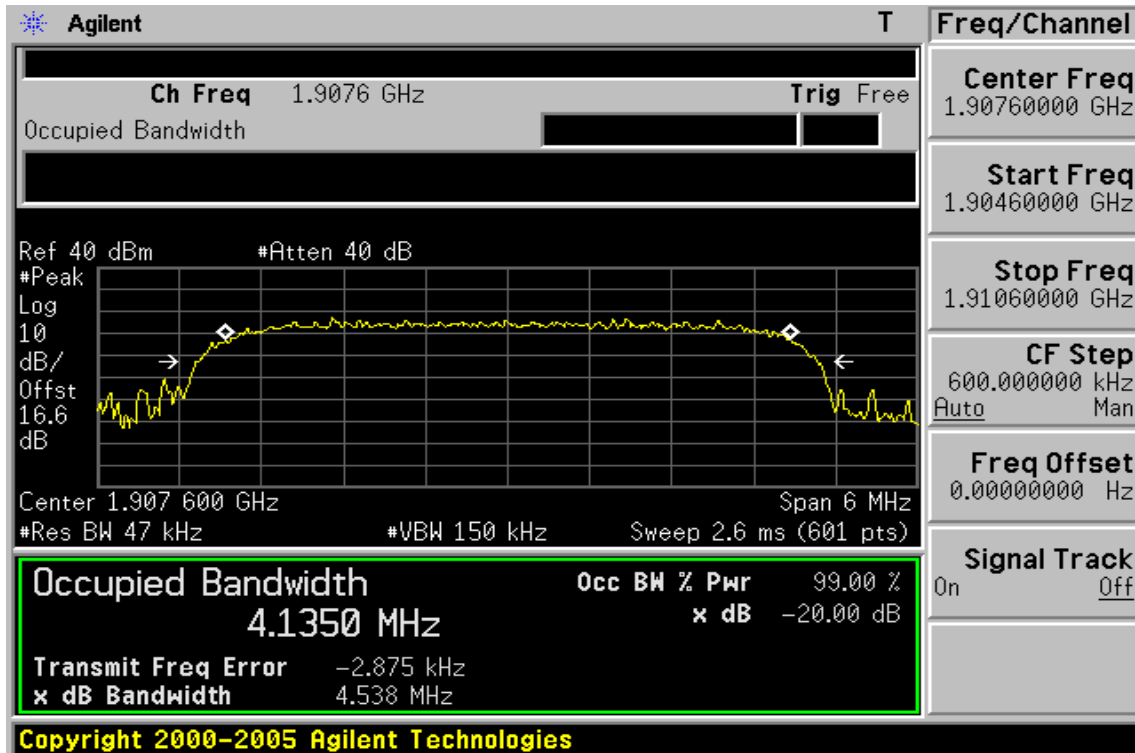
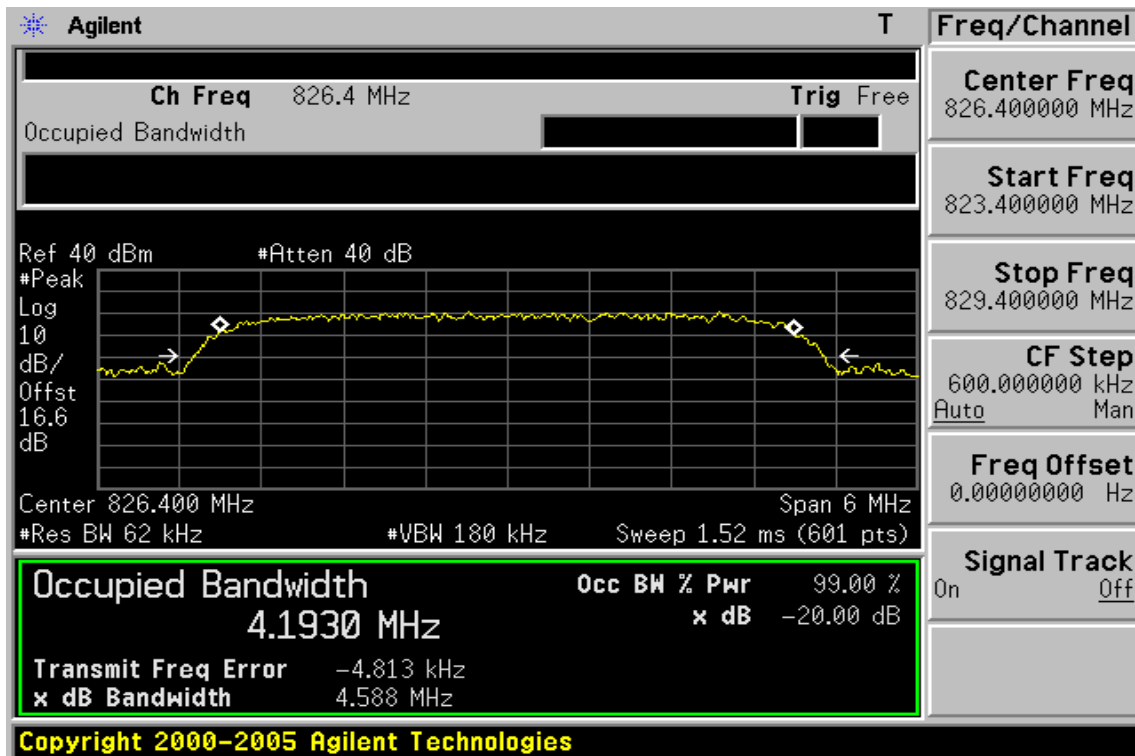


Figure 8-28: HSUPA Band V Channel Low



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Figure 8-29: HSUPA Band V Channel Mid

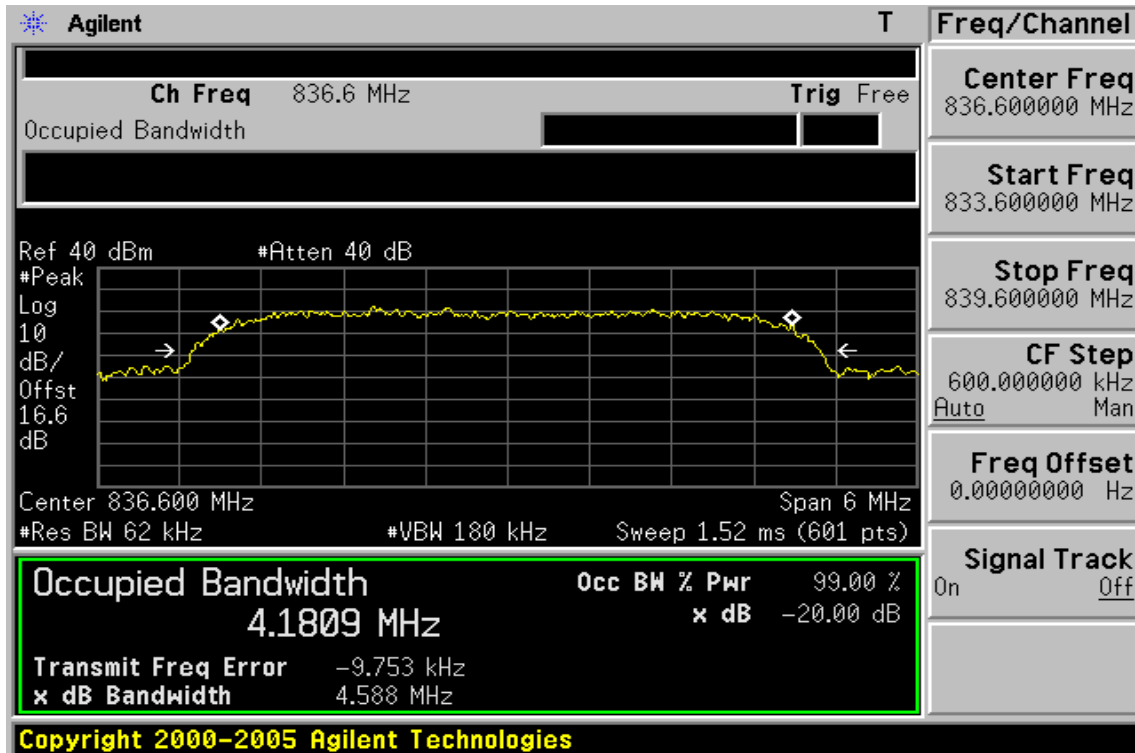
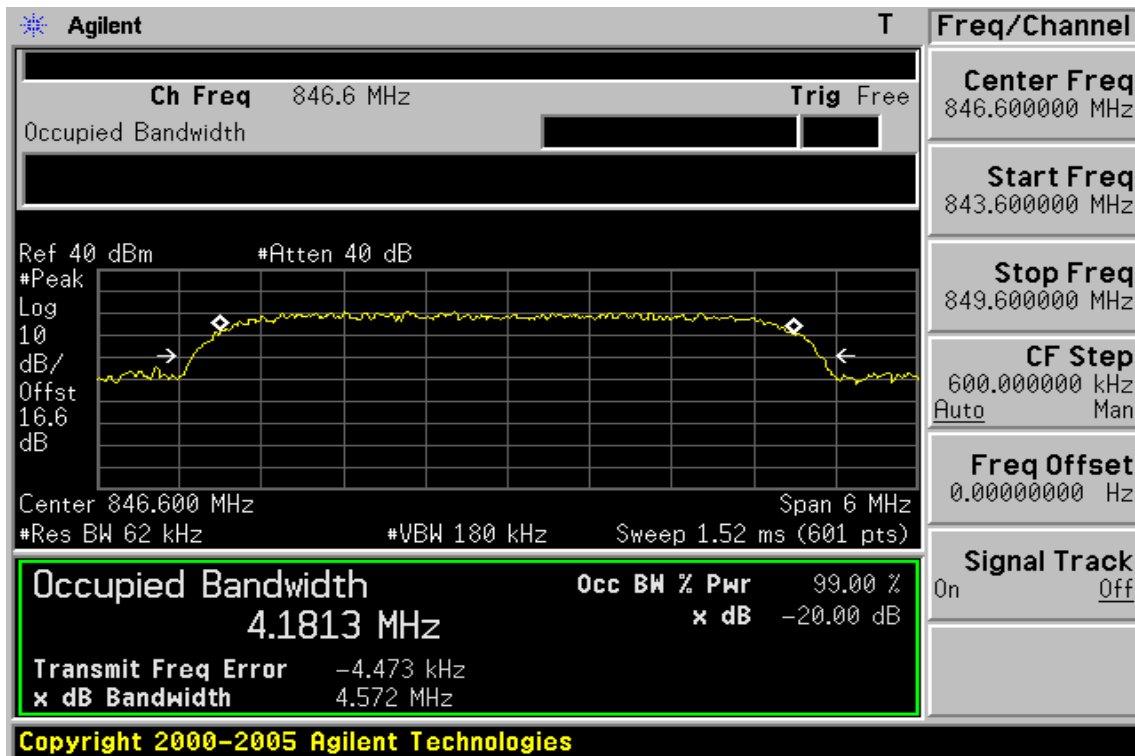


Figure 8-30: HSUPA Band V Channel High



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Figure 8-31: HSDPA Band II Channel Low

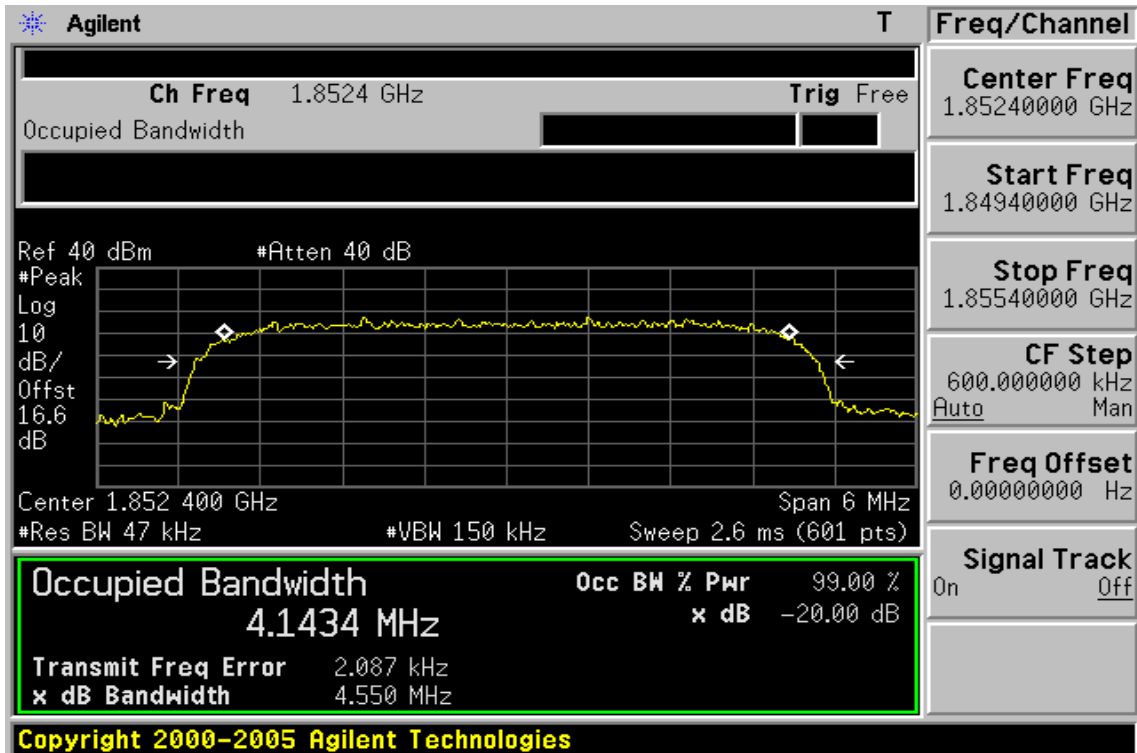
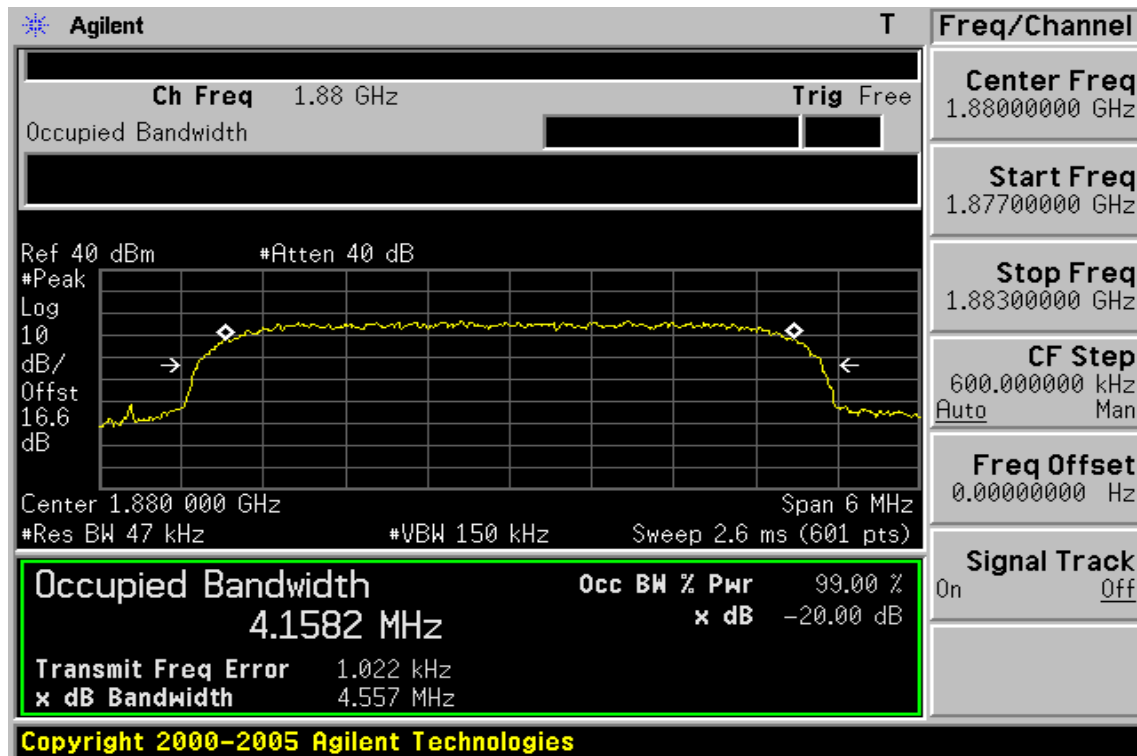


Figure 8-32: HSDPA Band II Channel Mid



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Figure 8-33: HSDPA Band II Channel High

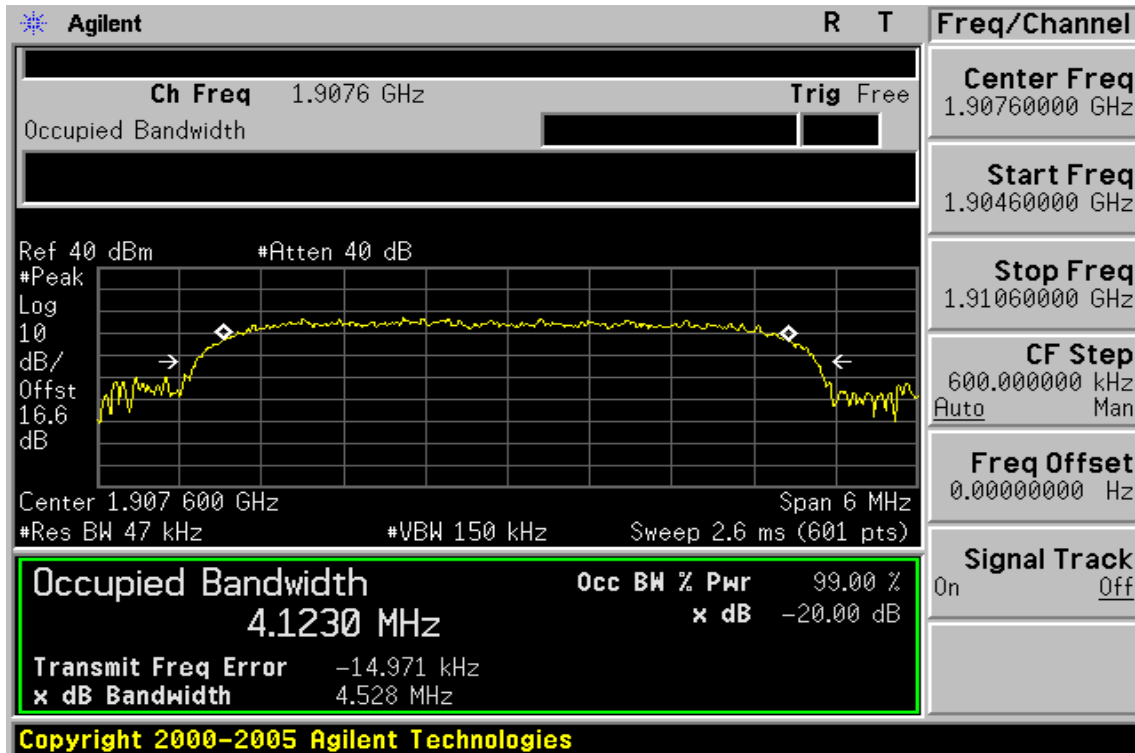
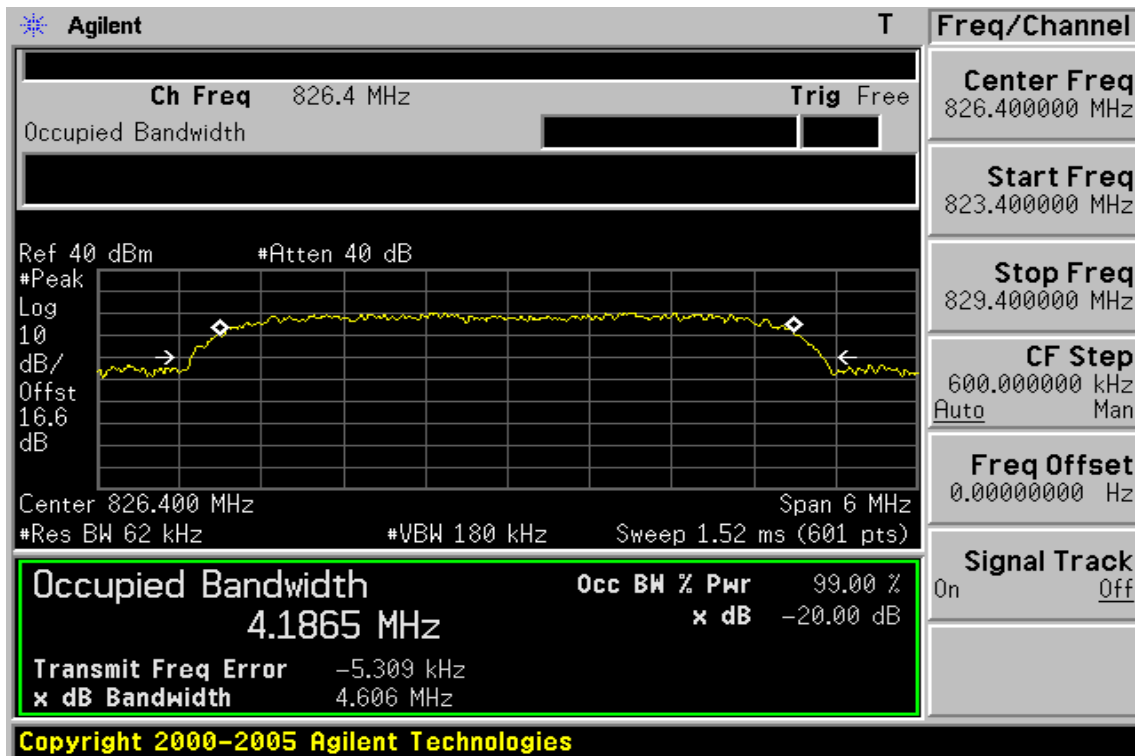


Figure 8-34: HSDPA Band V Channel Low



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Figure 8-35: HSDPA Band V Channel Mid

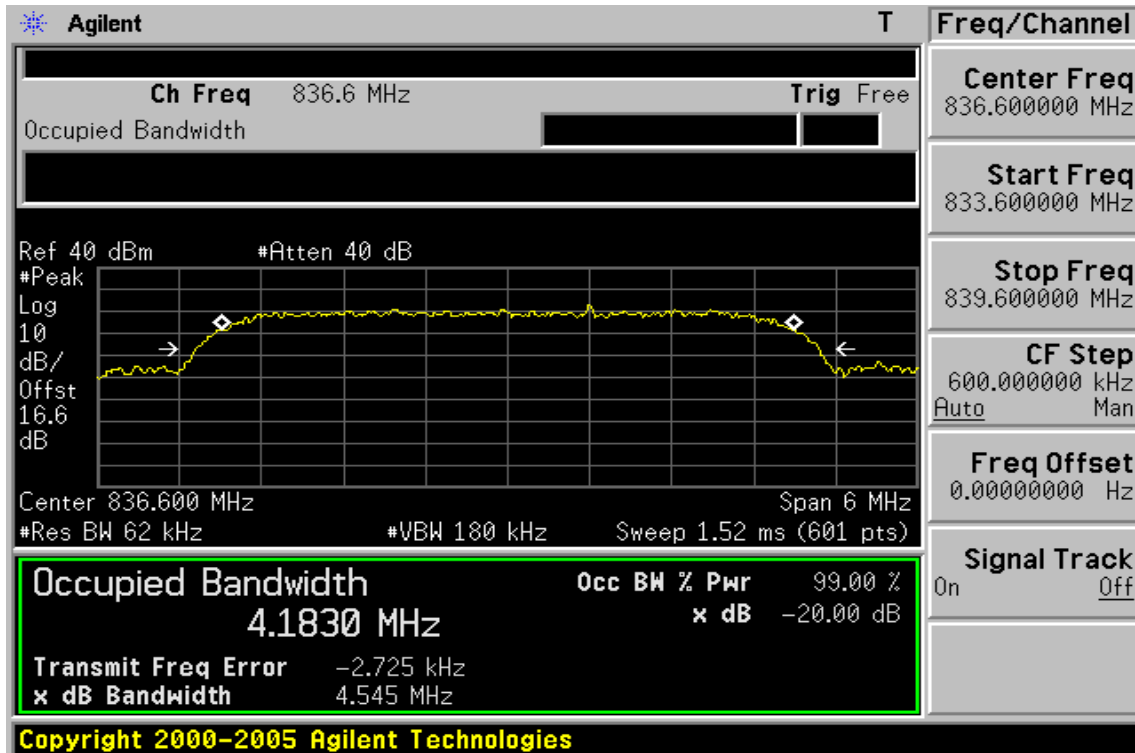
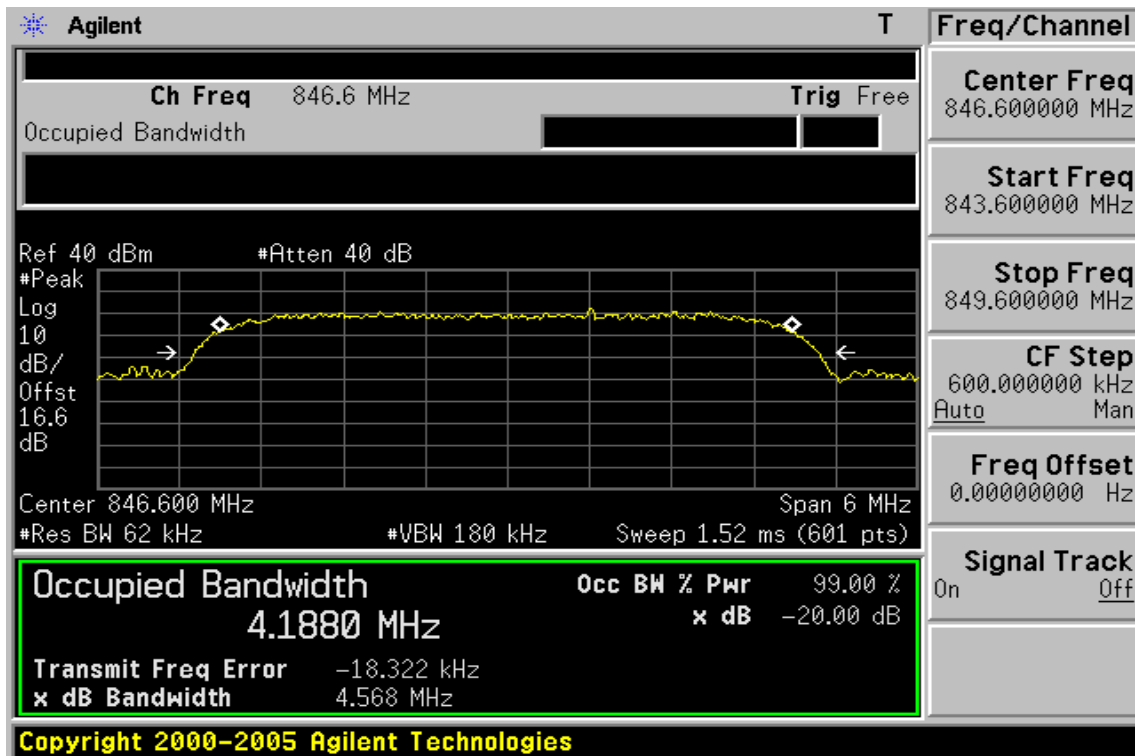


Figure 8-36: HSDPA Band V Channel High



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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) dB 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

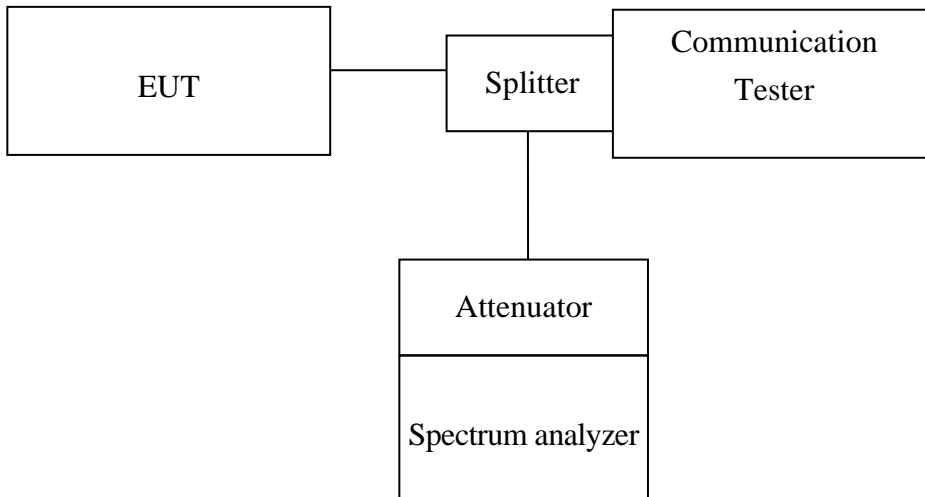
Outside the sub-bands 1850-1910 MHz and 1930-1990 MHz, the attenuation shall be equal to or greater than the out-of-block emission limits in Section 6.5.1.

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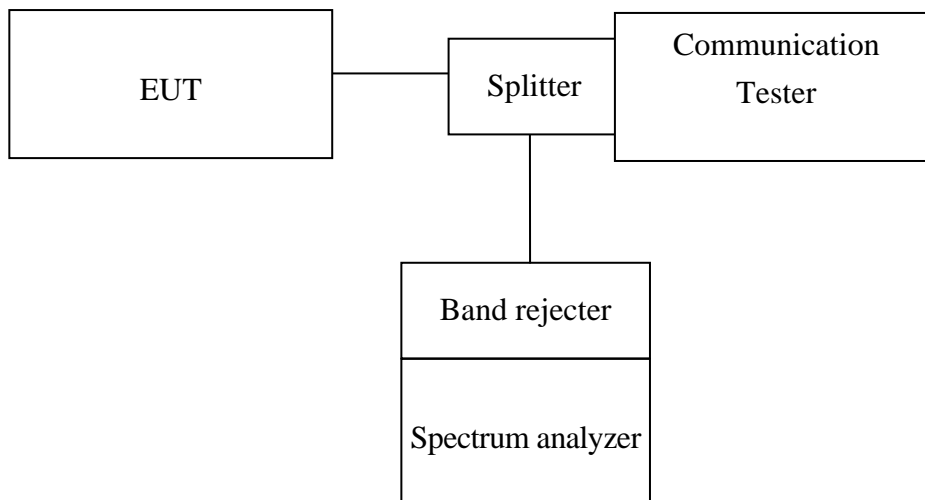
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**9.2. Test SET-UP:  
Out of band emission**



**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

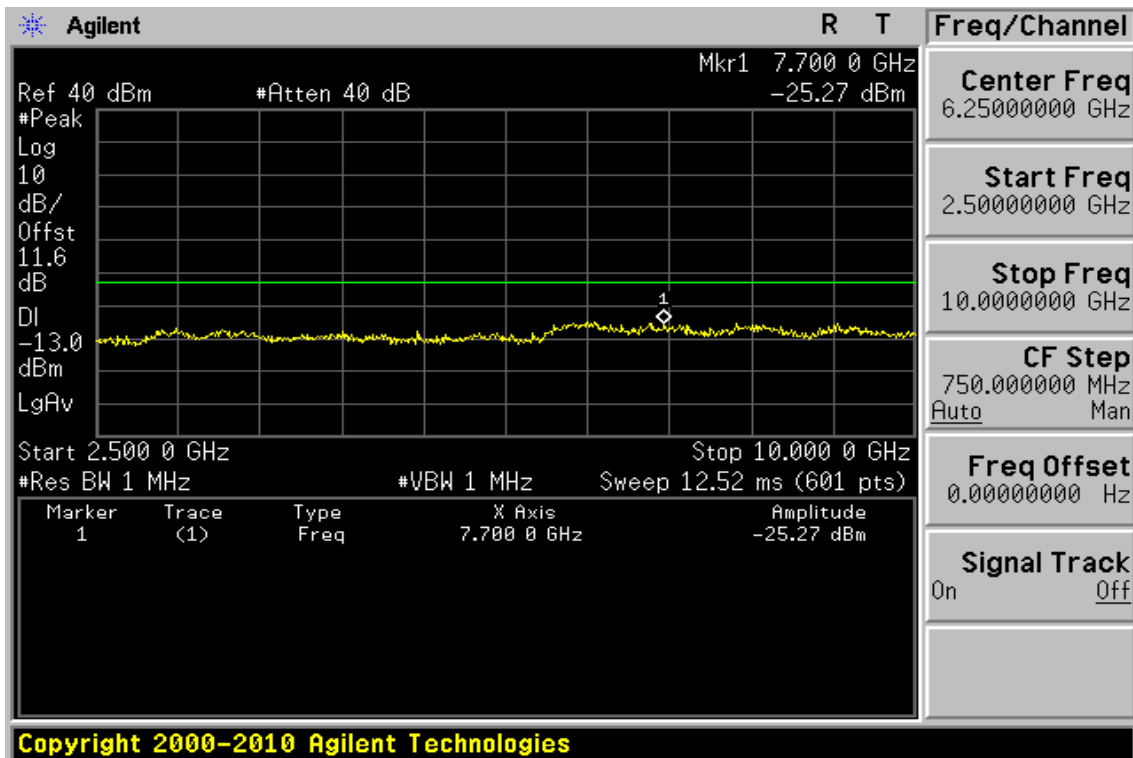
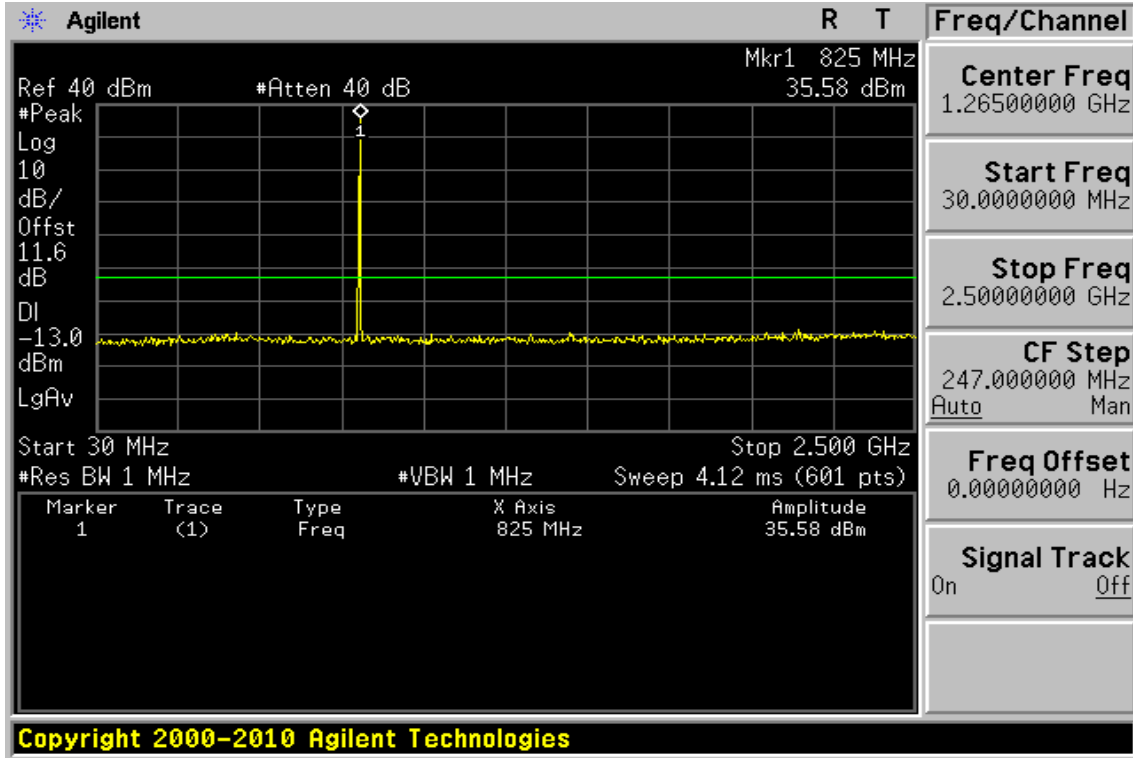
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9.5. Measurement Result:

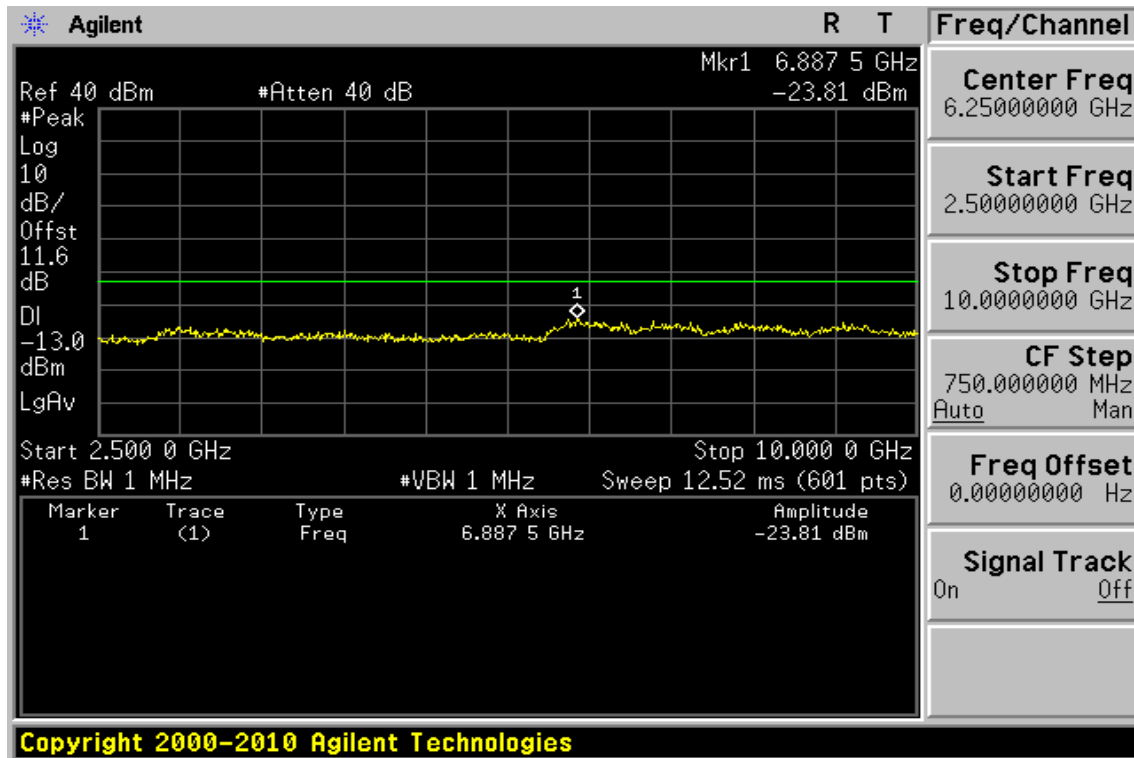
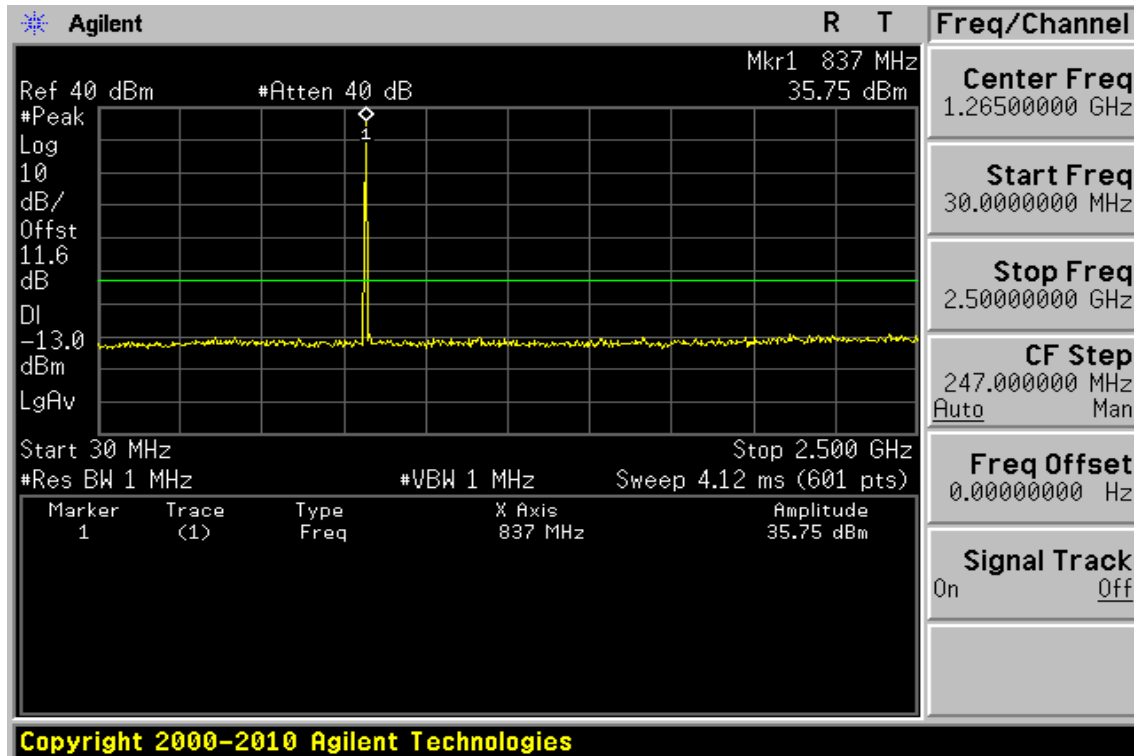
Figure 9-1: Out of Band emission at antenna terminals – GSM 850 Channel Lowest



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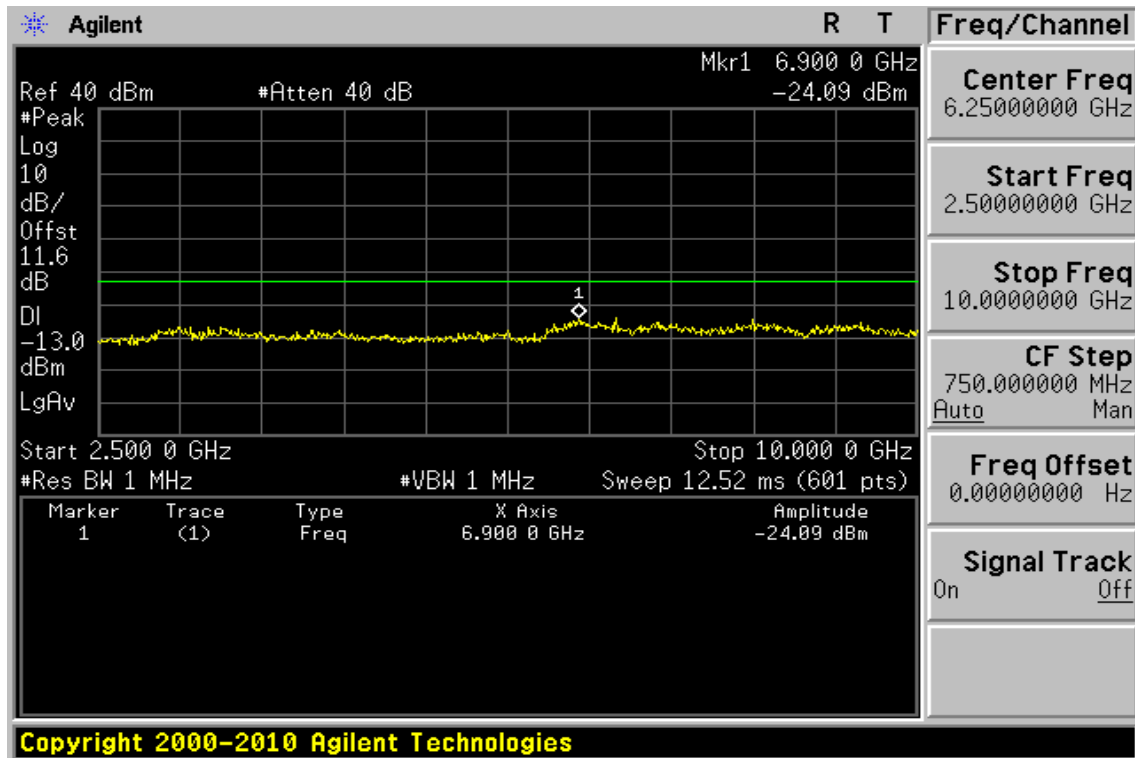
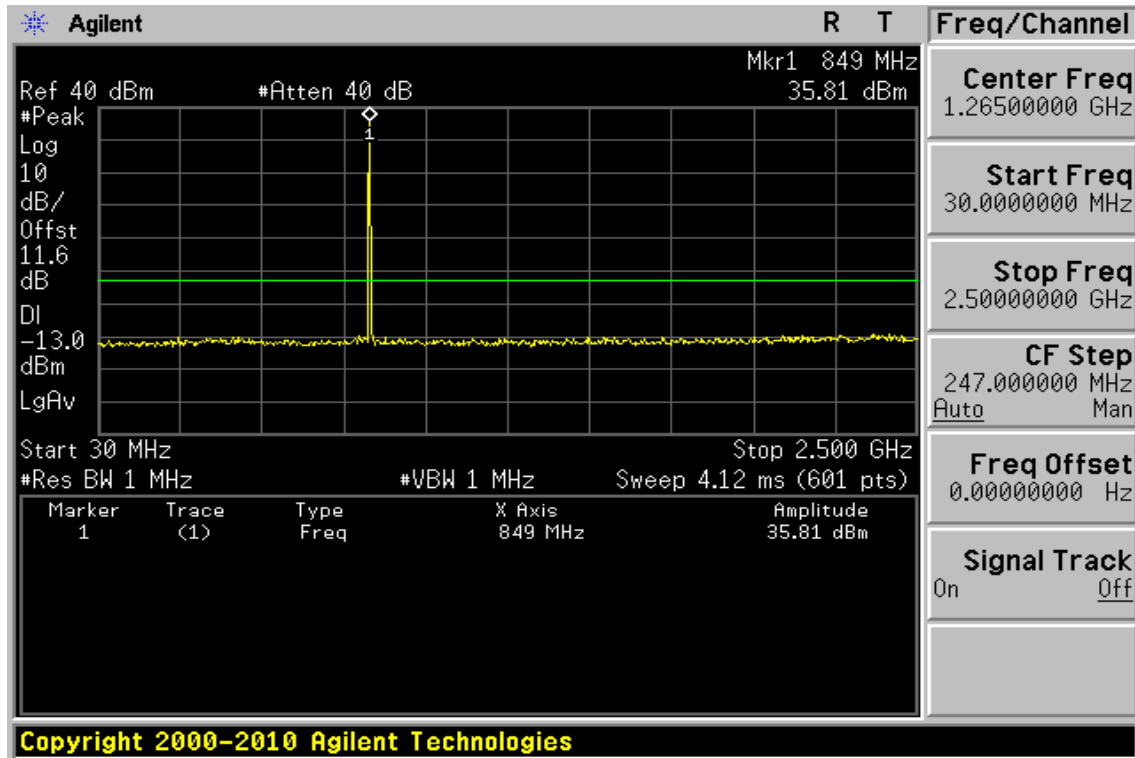


Figure 9-2: Out of Band emission at antenna terminals – GSM 850 Channel Mid



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



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

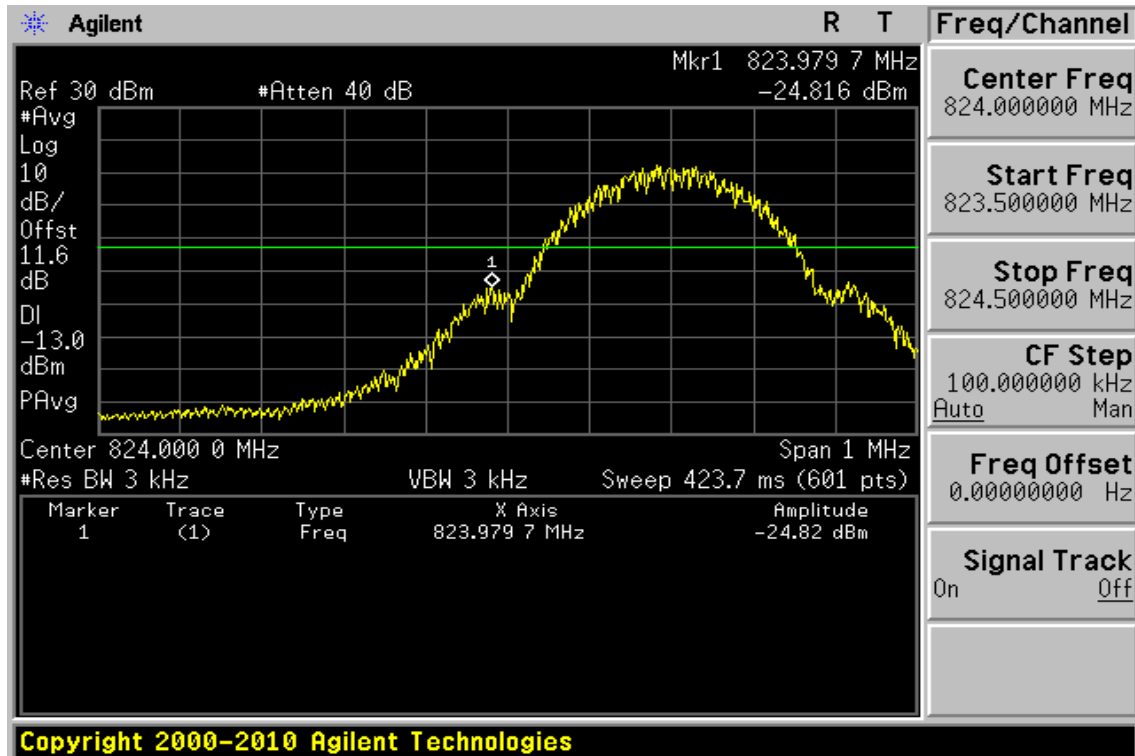
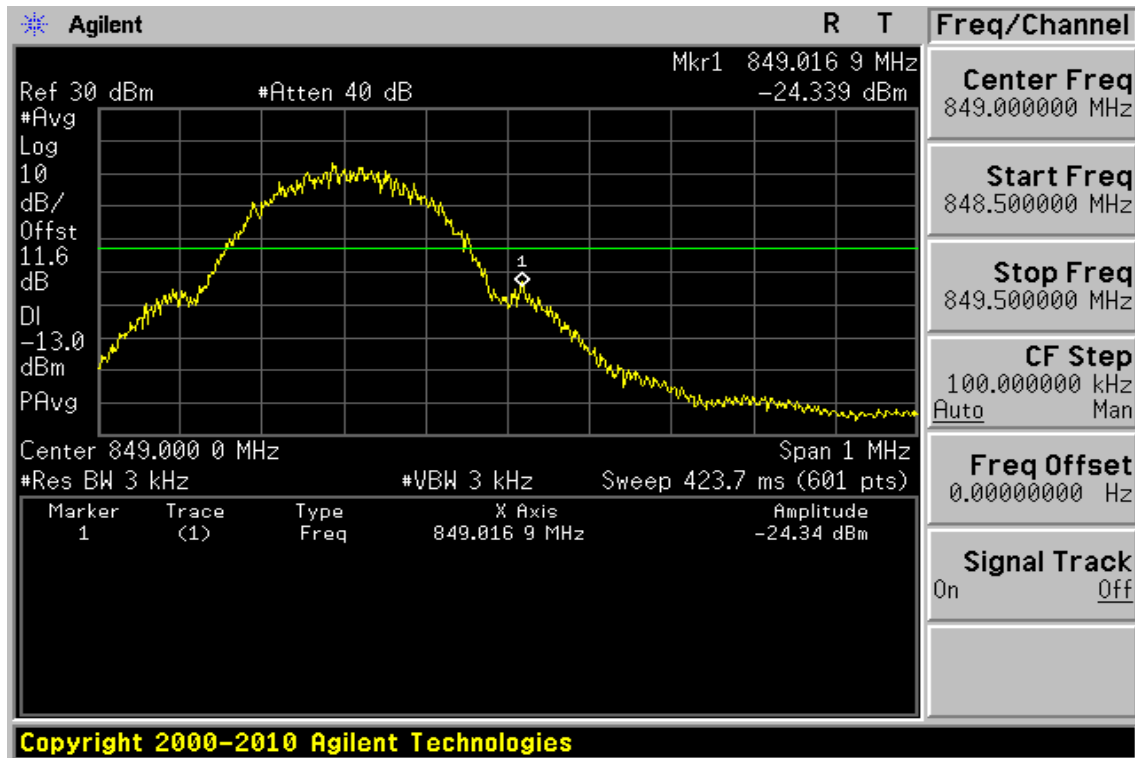


Figure 9-5: Band edge emission at antenna terminals – GSM 850 Channel Highest

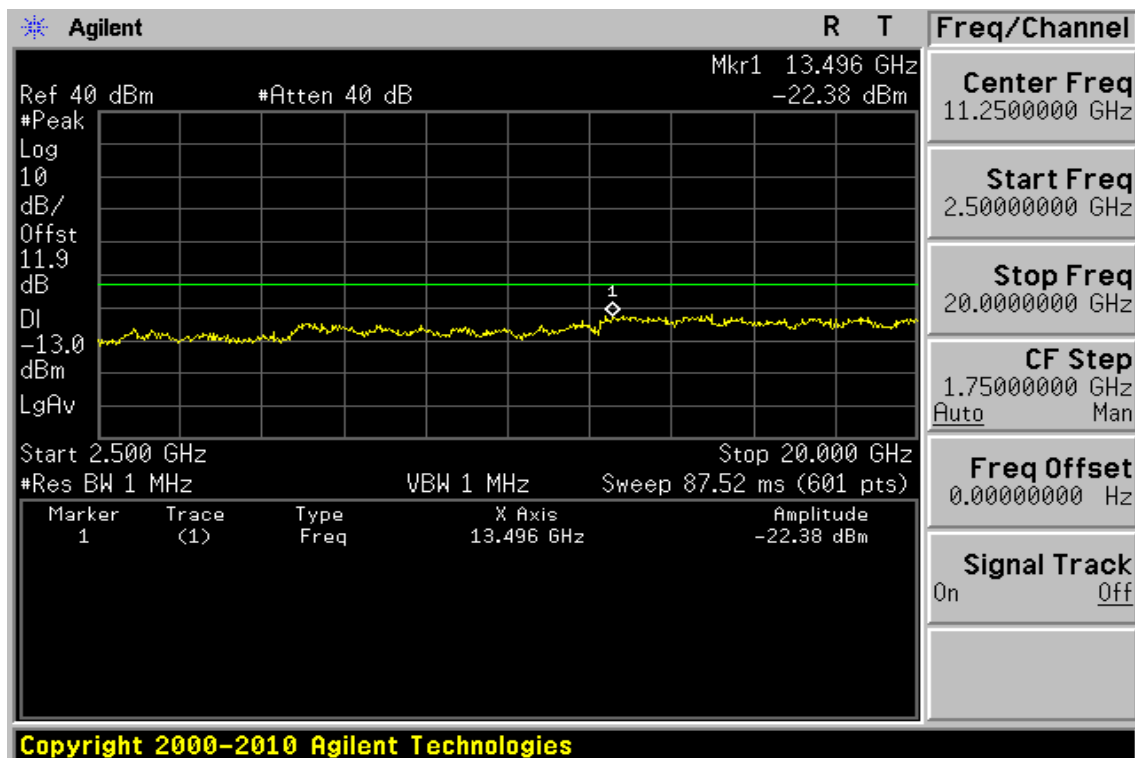
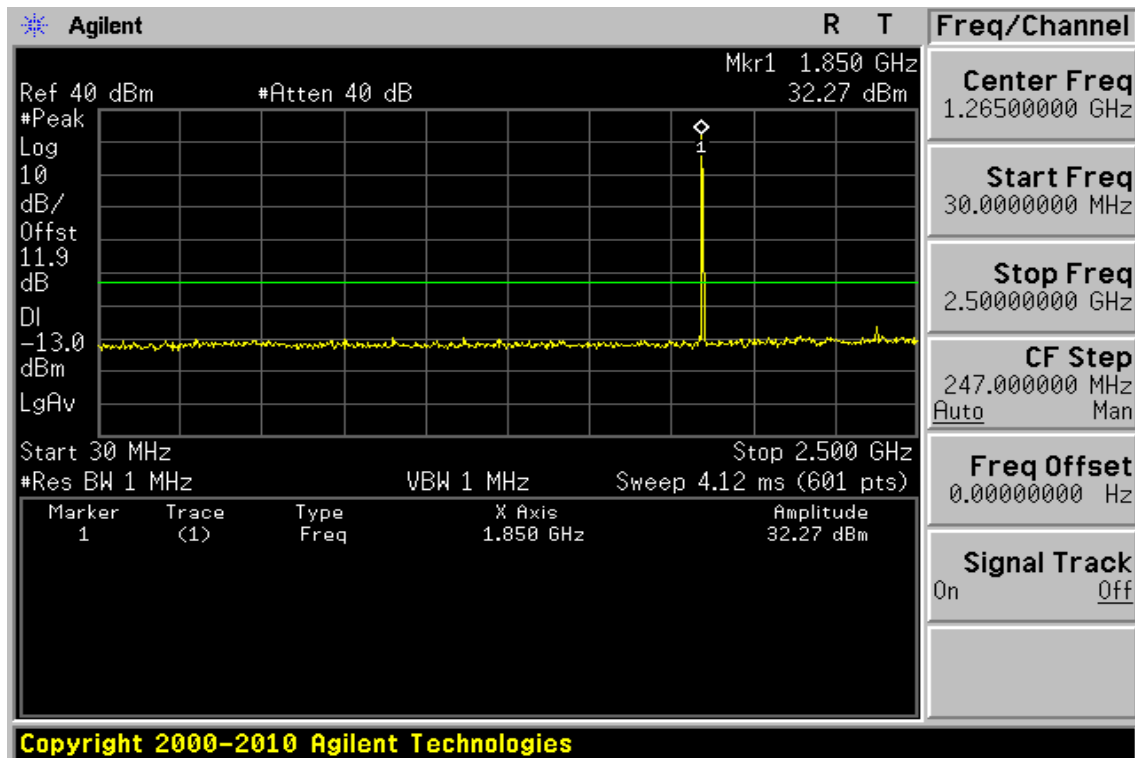


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Figure 9-6: Out of Band emission at antenna terminals – GSM 1900 Channel Lowest

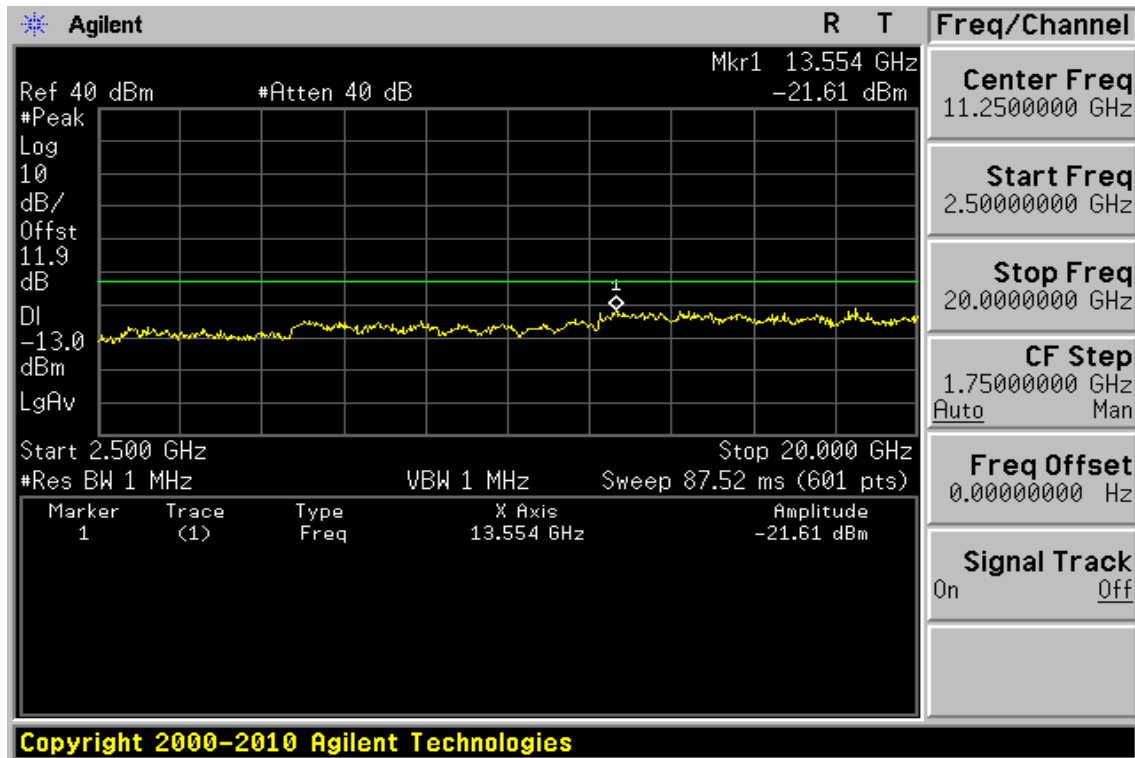
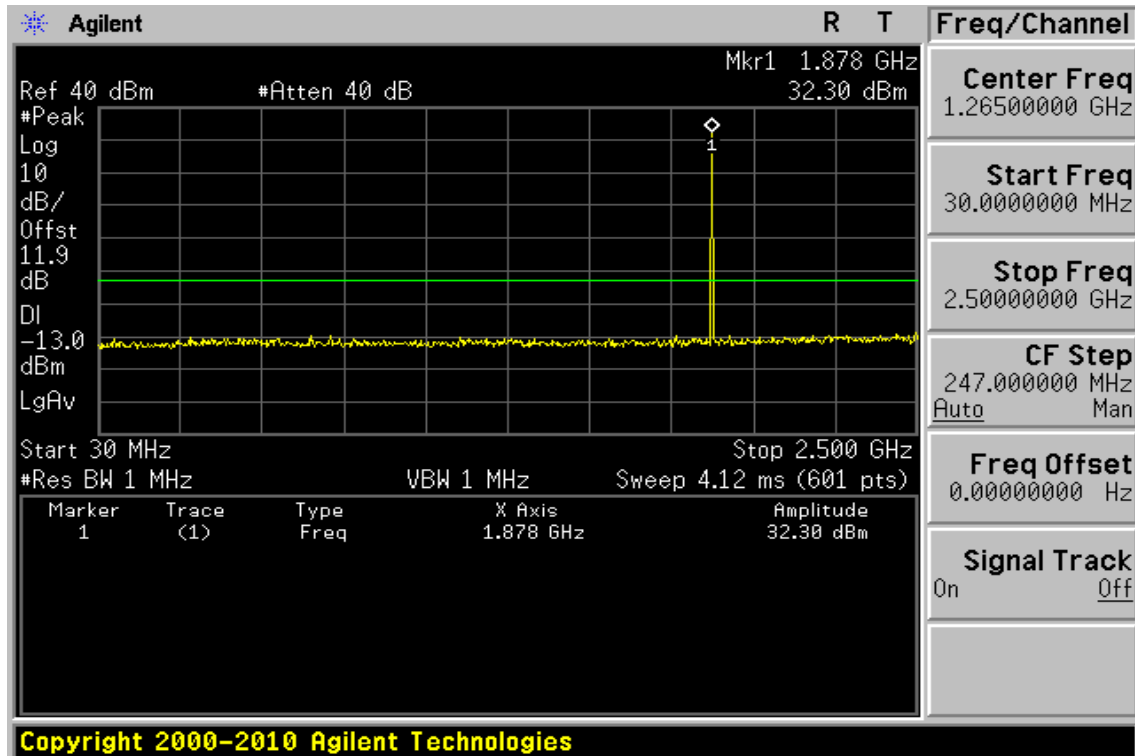


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Figure 9-7: Out of Band emission at antenna terminals – GSM 1900 Channel Mid

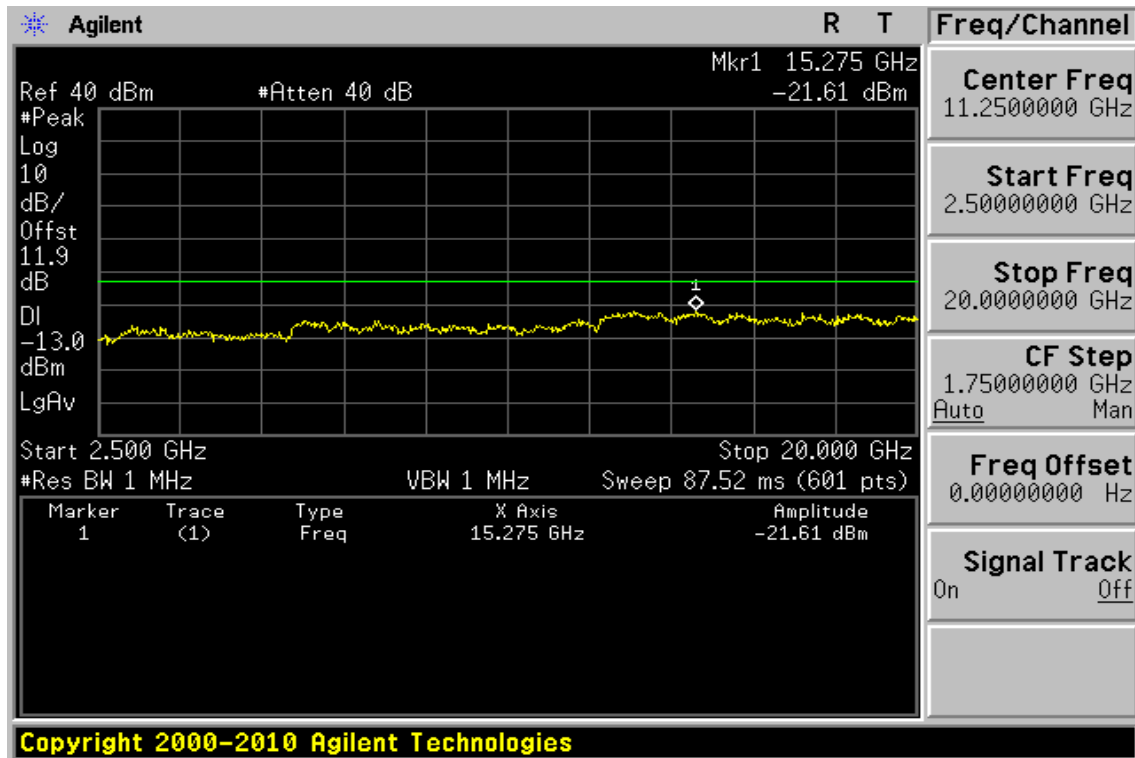
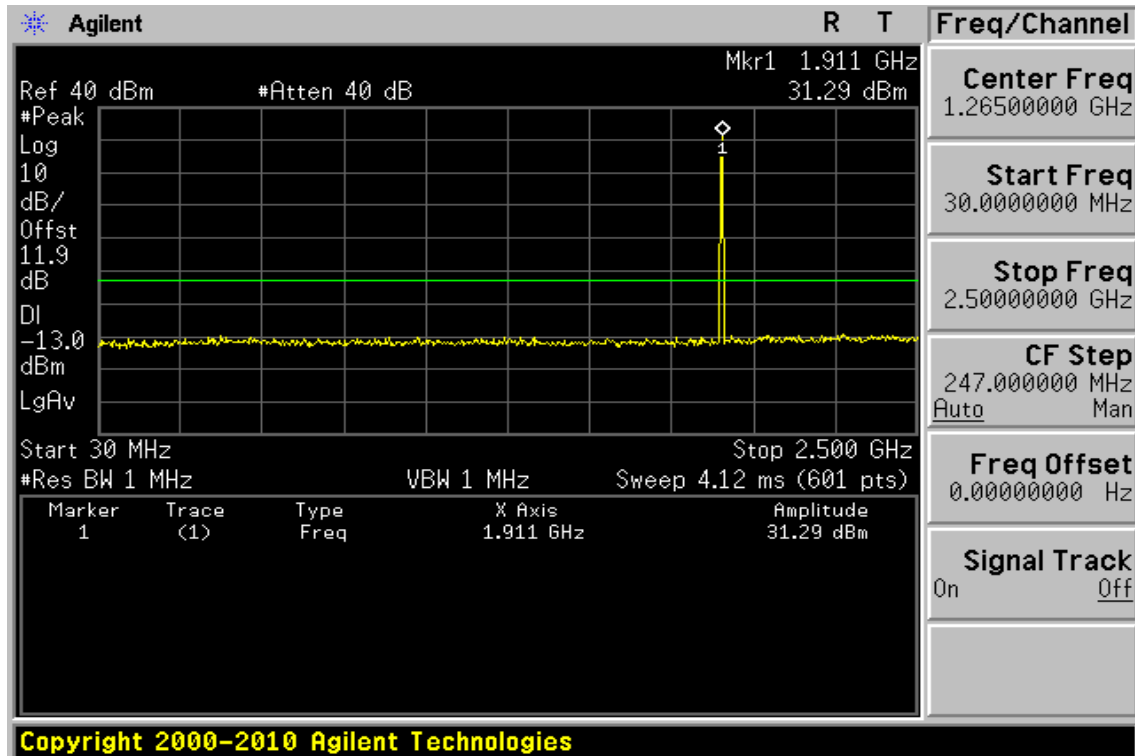


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Figure 9-8: Out of Band emission at antenna terminals – GSM 1900 Channel Highest



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

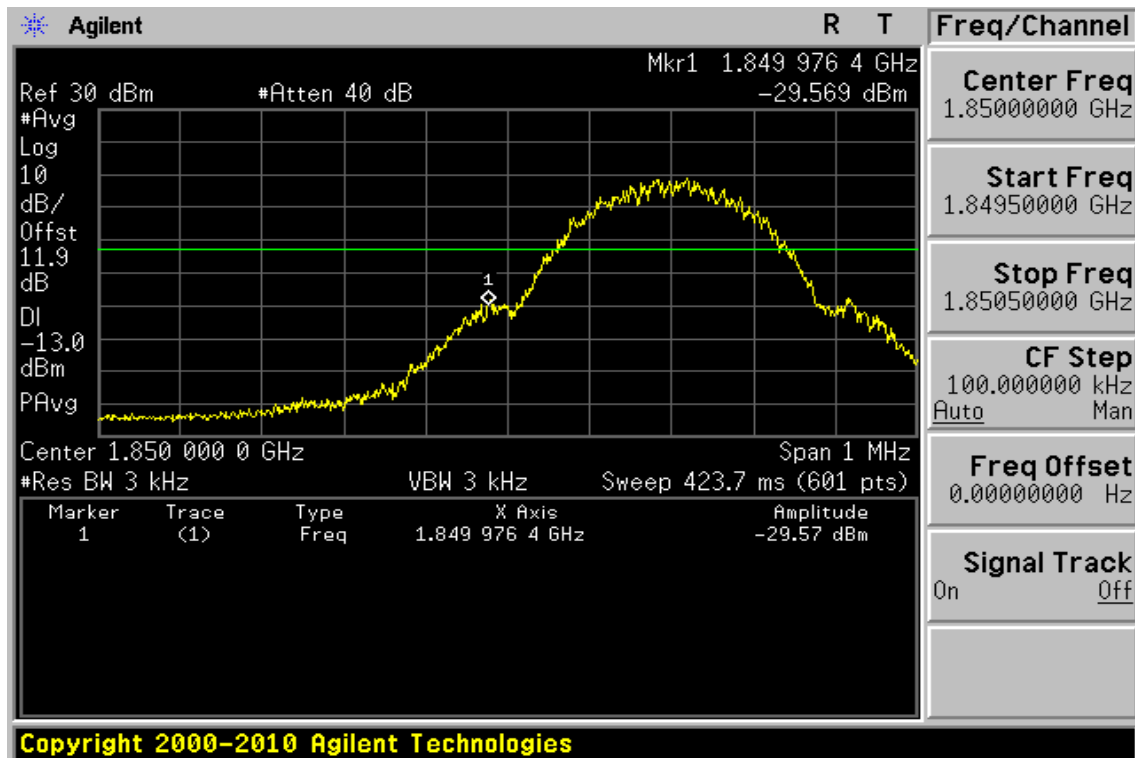
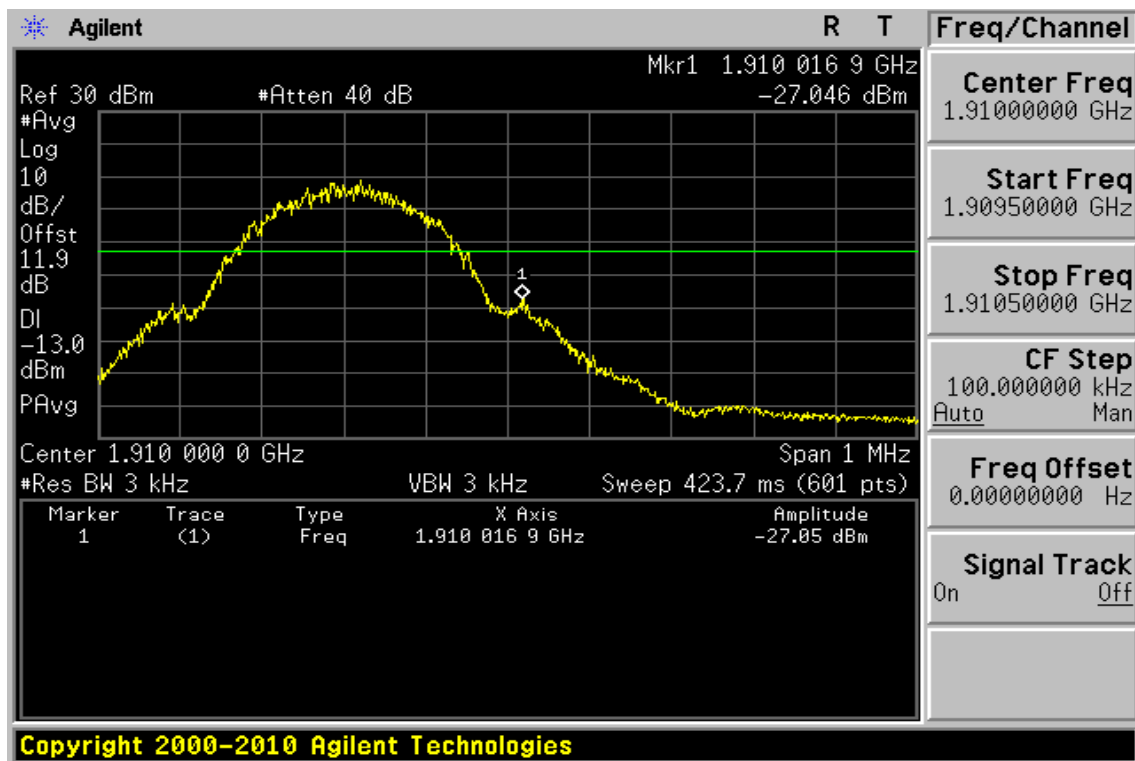


Figure 9-10: Band edge emission at antenna terminals – GSM 1900 Channel Highest

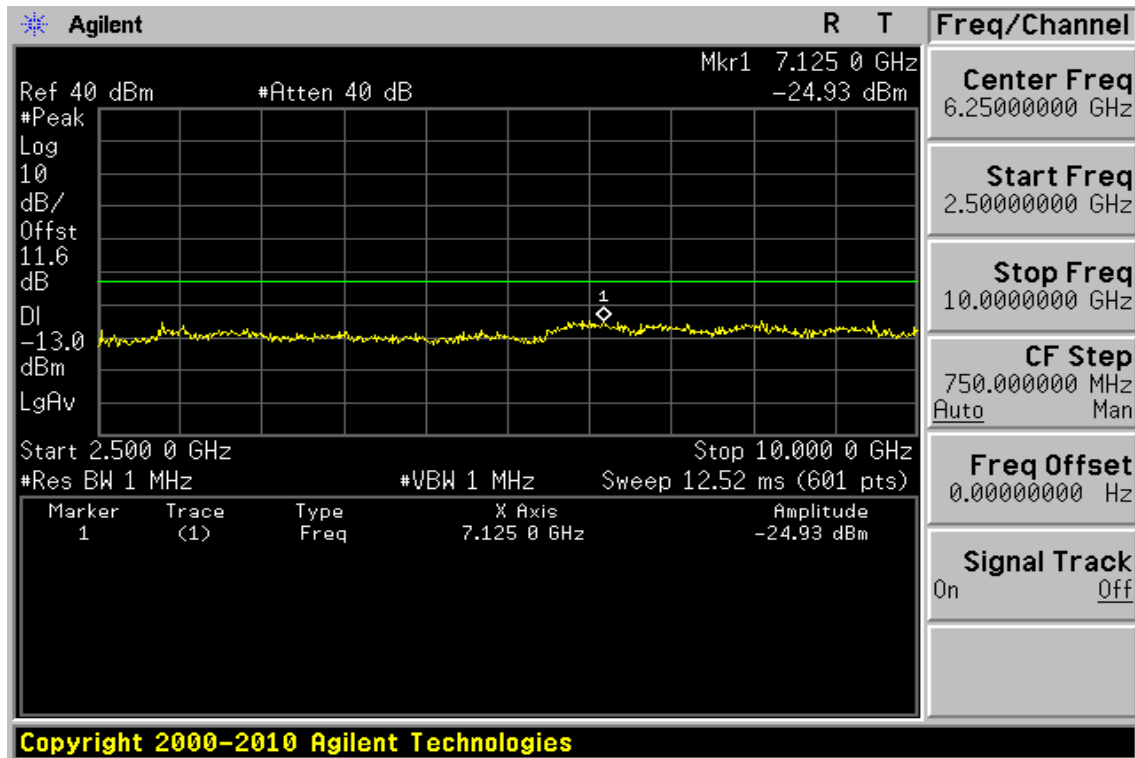
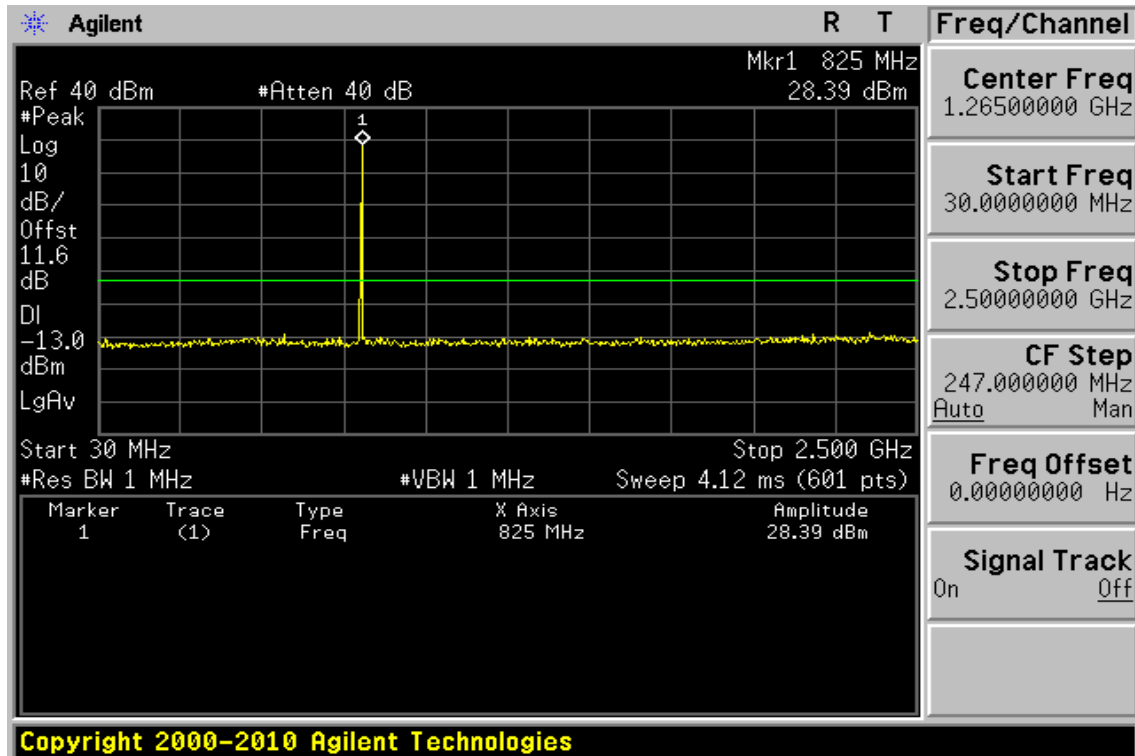


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Figure 9-11: Out of Band emission at antenna terminals – GPRS850 Channel Lowest



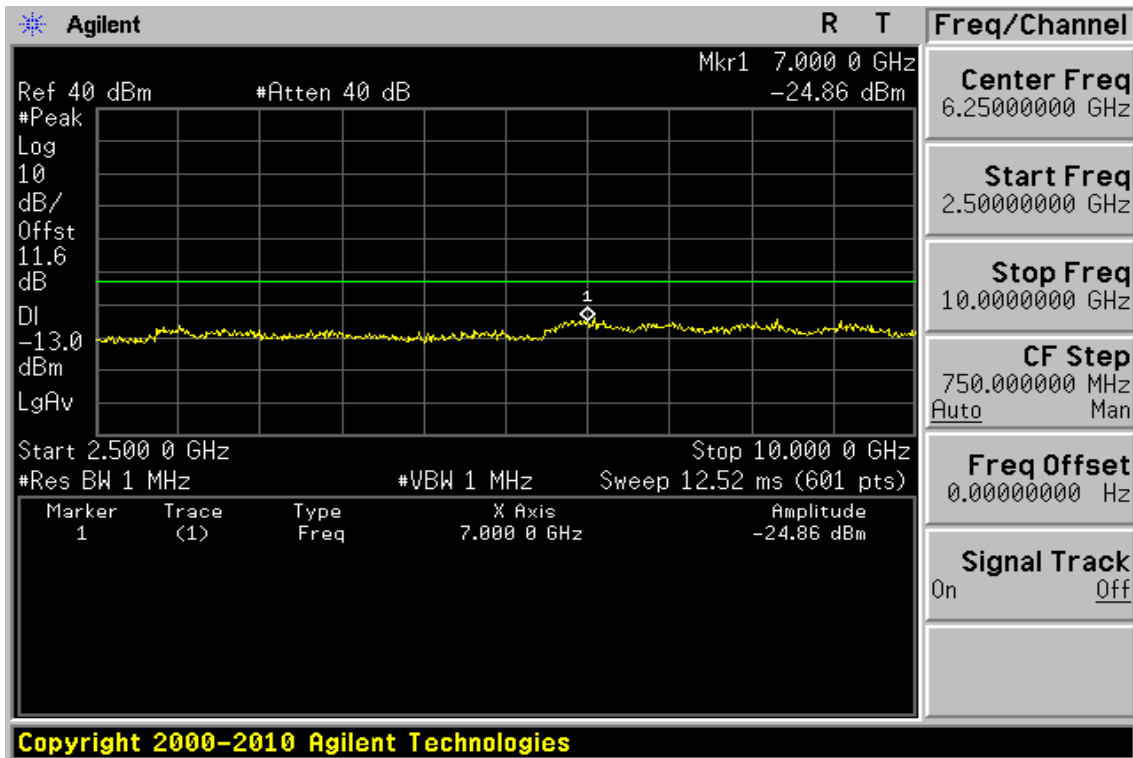
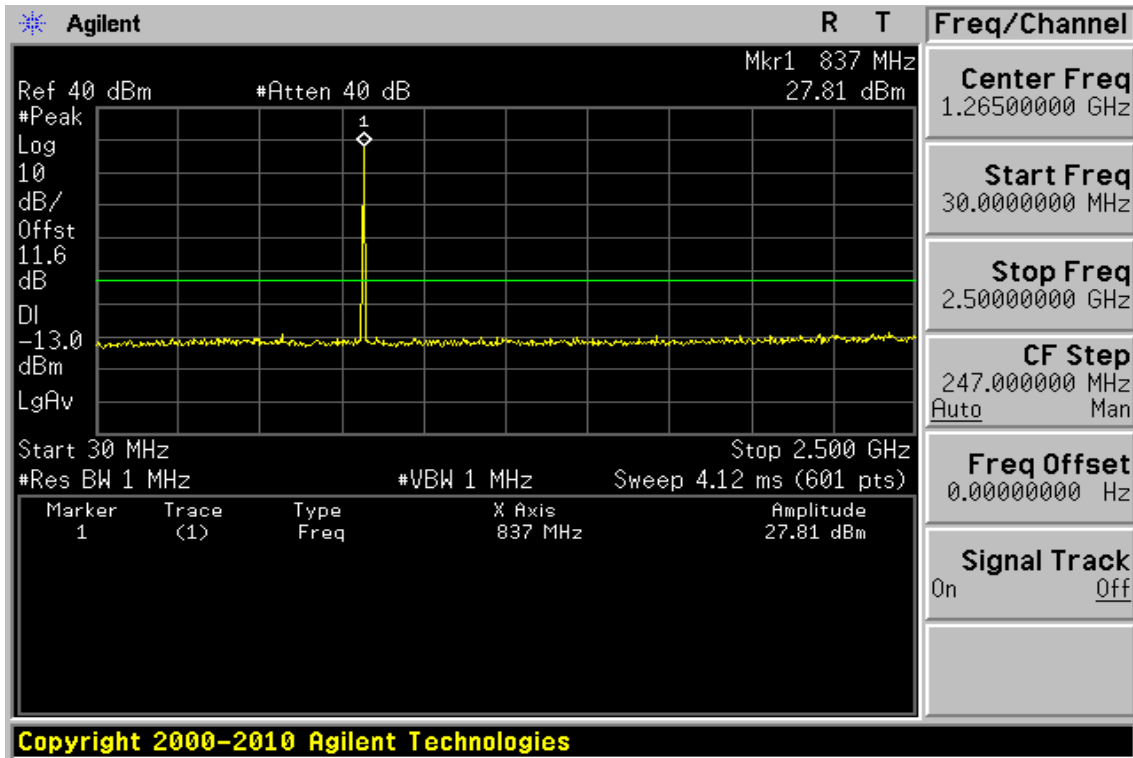
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Figure 9-12: Out of Band emission at antenna terminals – GPRS 850 Channel Mid

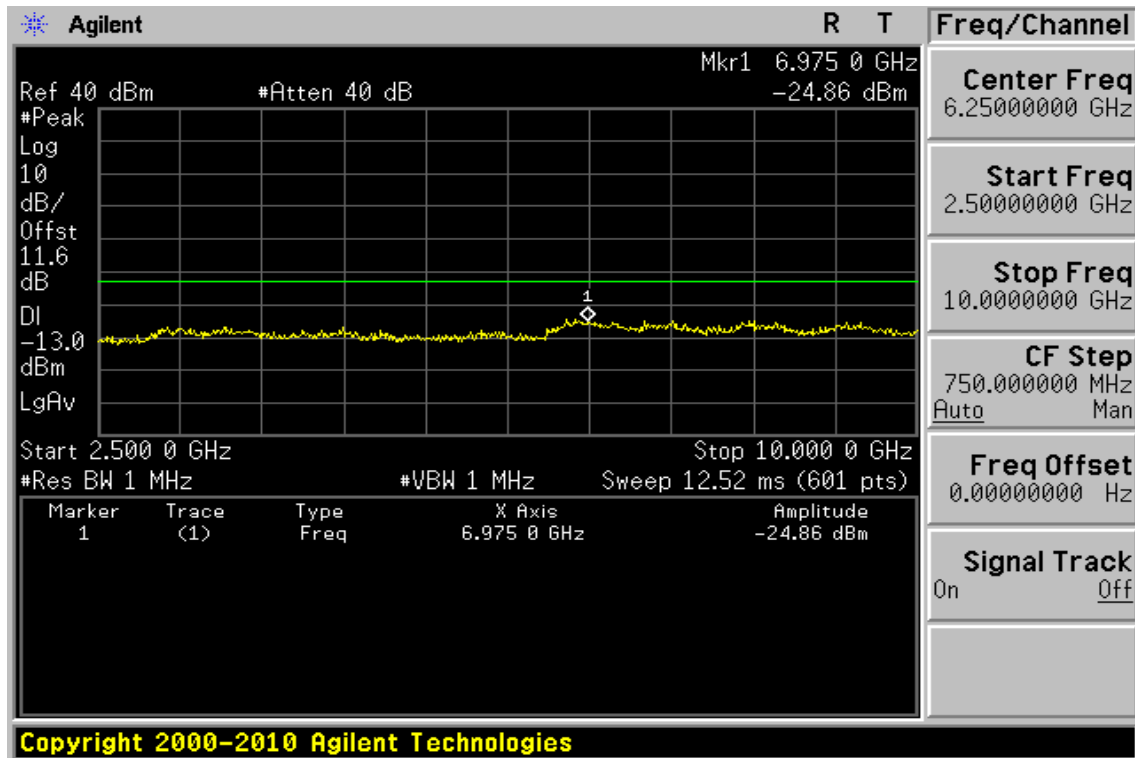
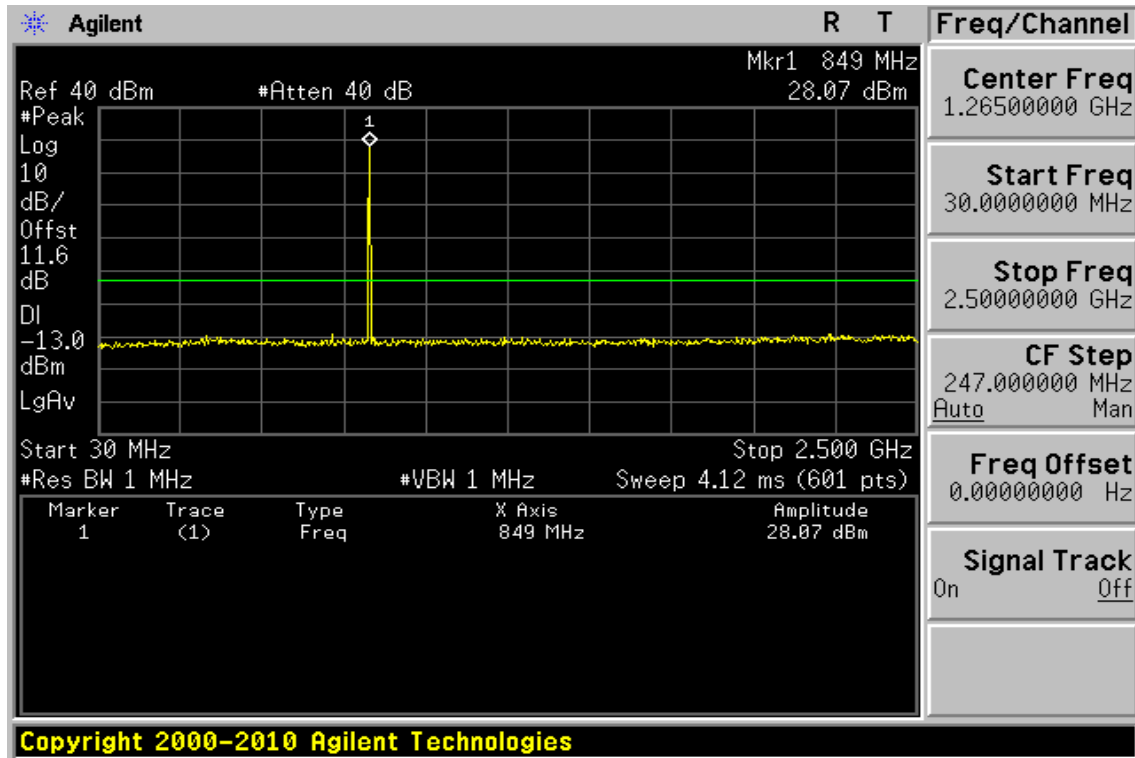


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Figure 9-13: Out of Band emission at antenna terminals – GPRS 850 Channel Highest



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

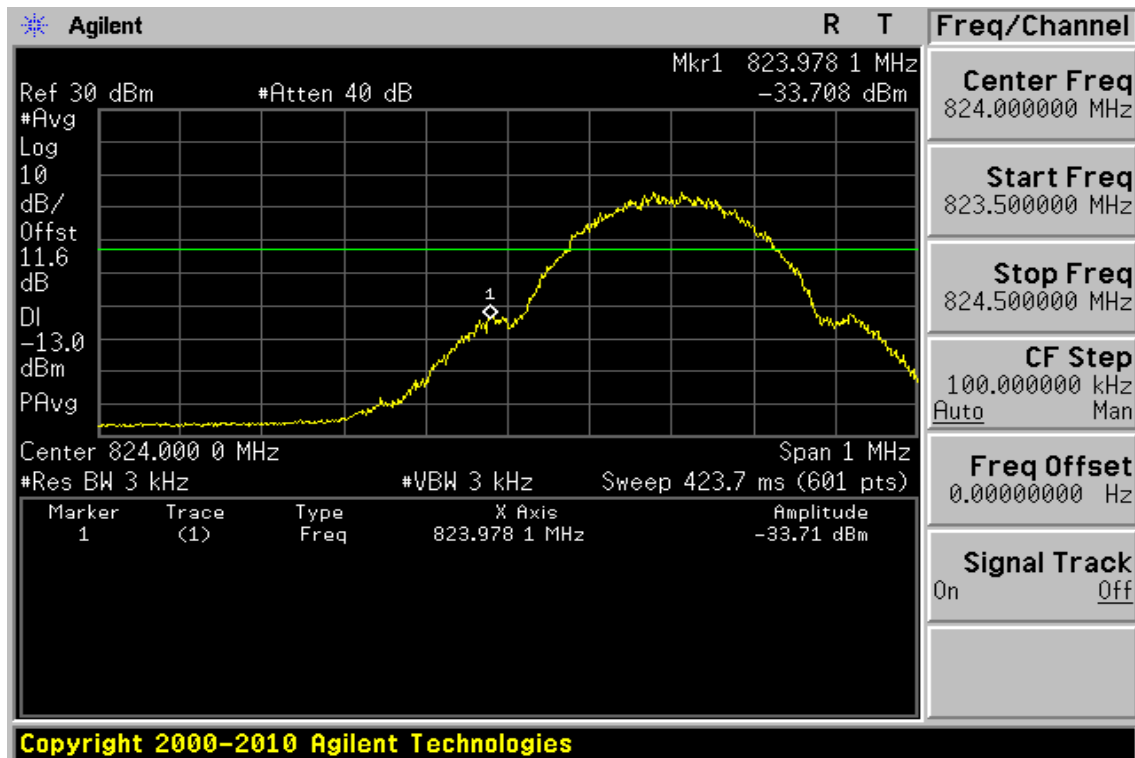
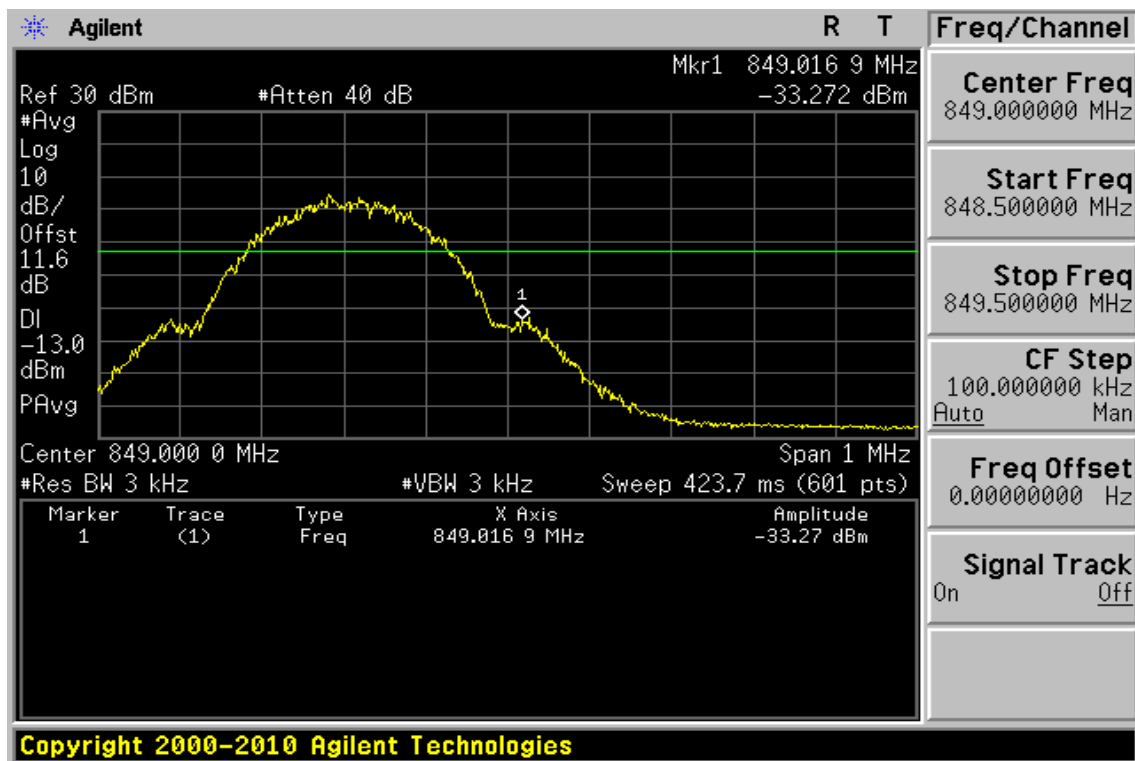


Figure 9-15: Band edge emission at antenna terminals – GPRS 850 Channel Highest

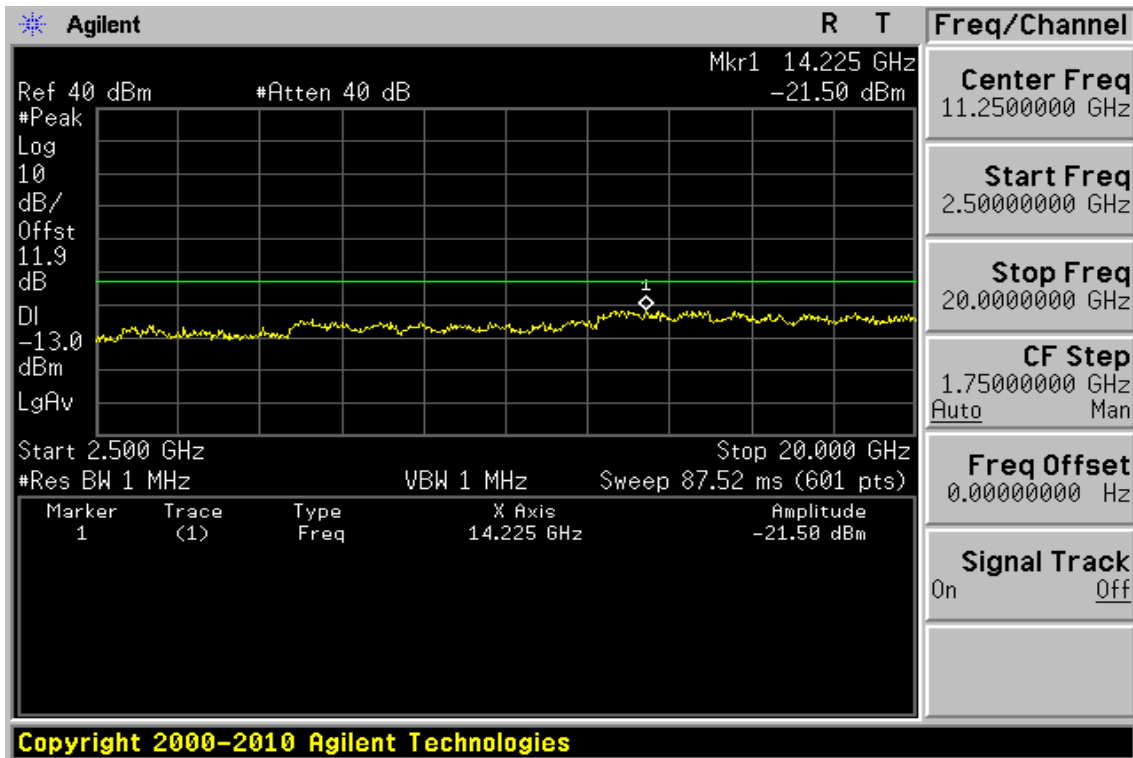
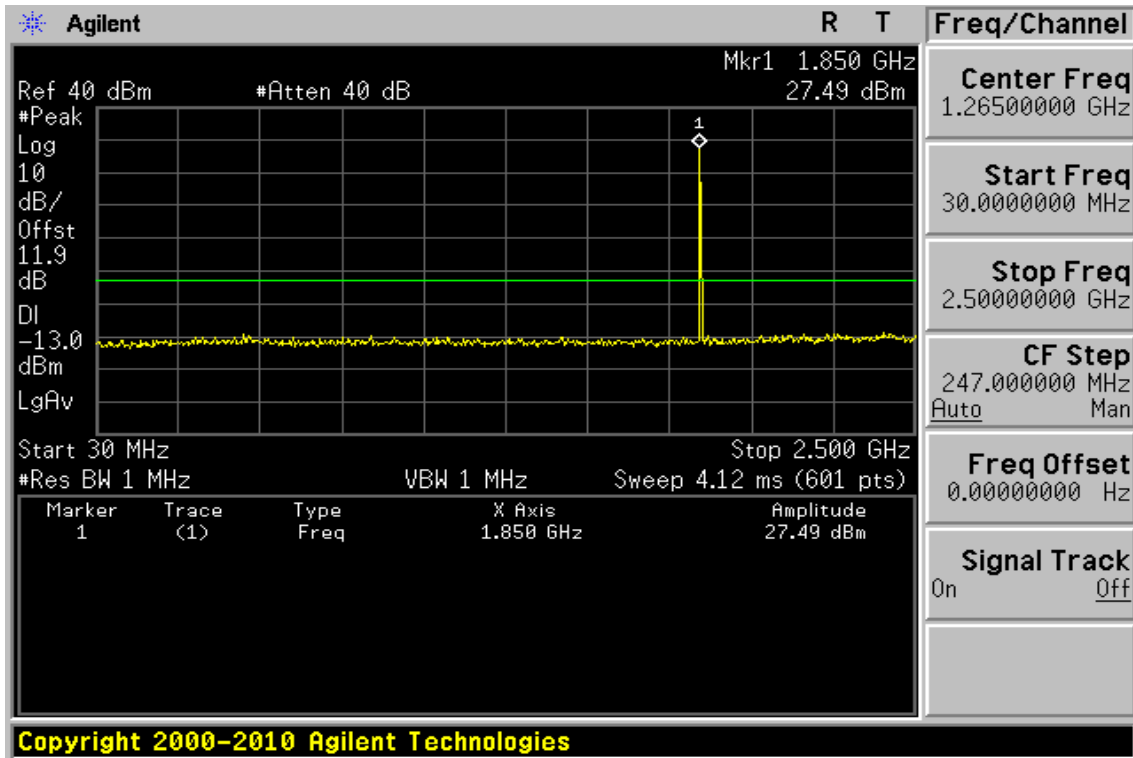


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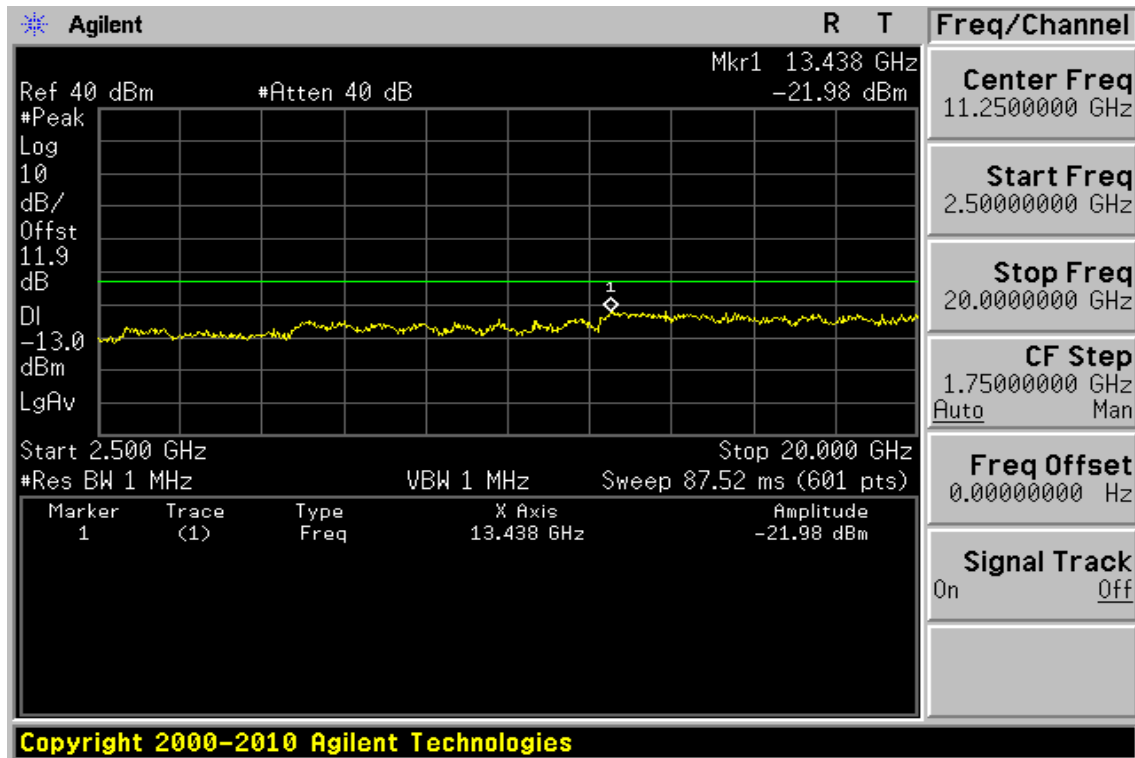
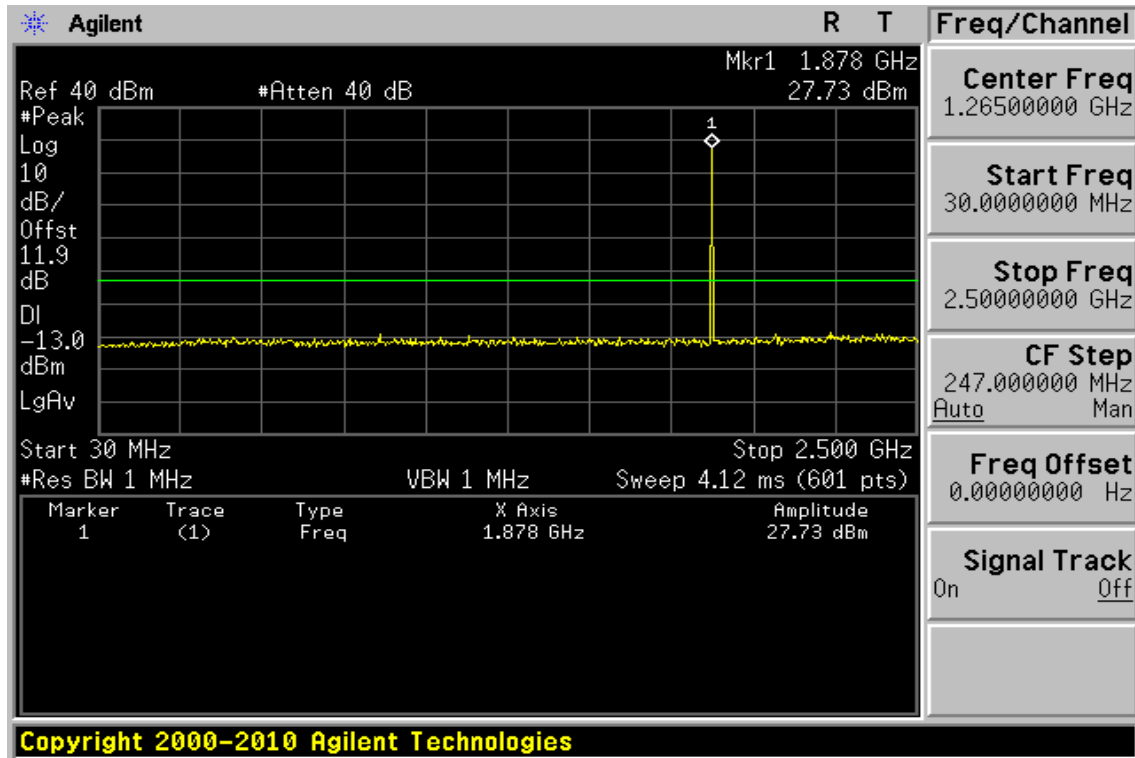
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Figure 9-16: Out of Band emission at antenna terminals – GPRS 1900 Channel Lowest



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

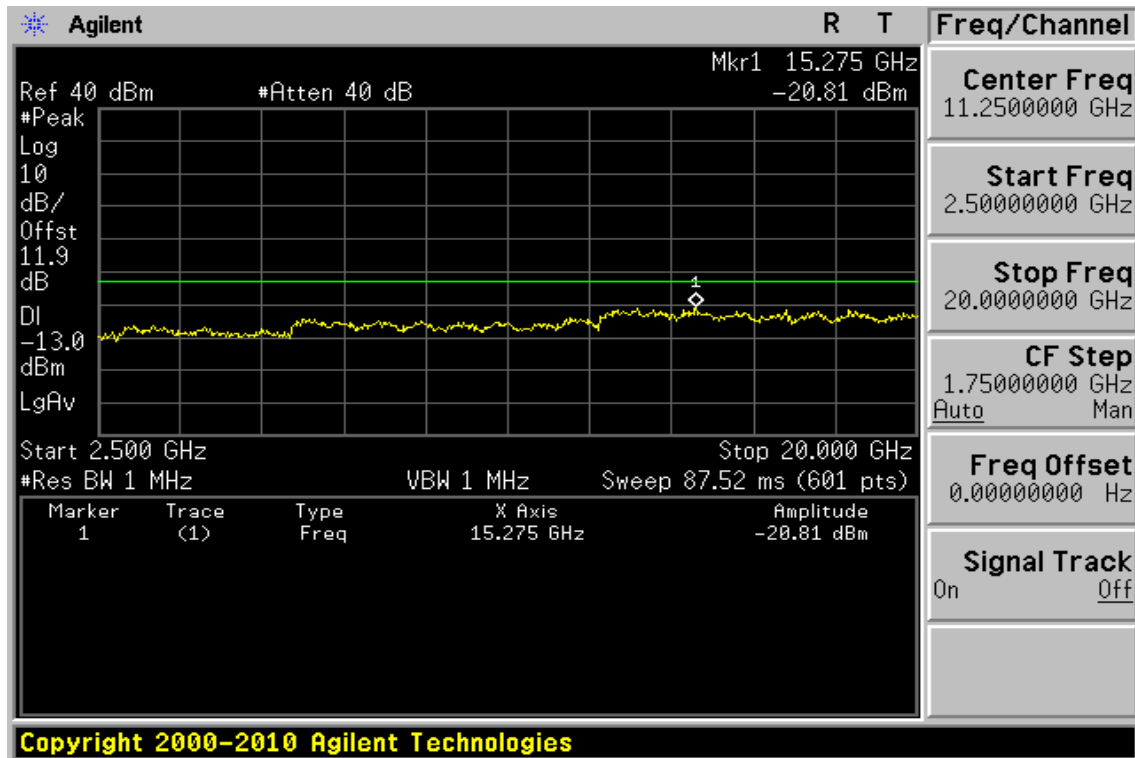
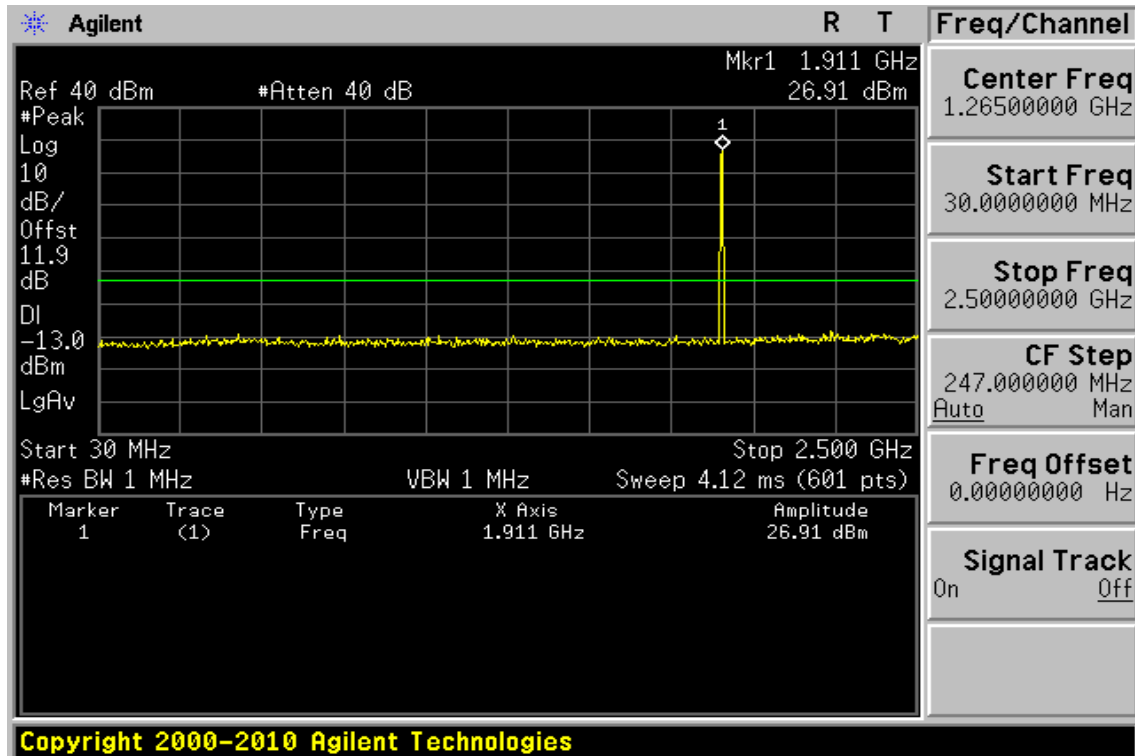


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Figure 9-18: Out of Band emission at antenna terminals – GPRS 1900 Channel Highest



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

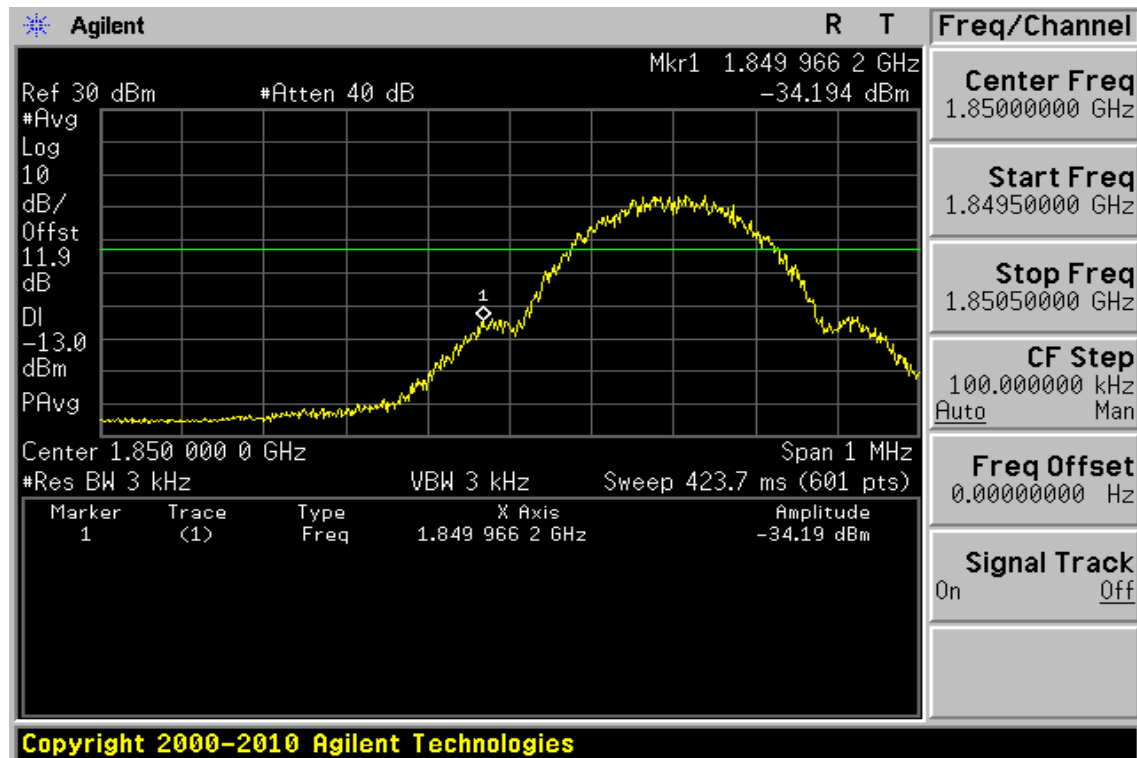
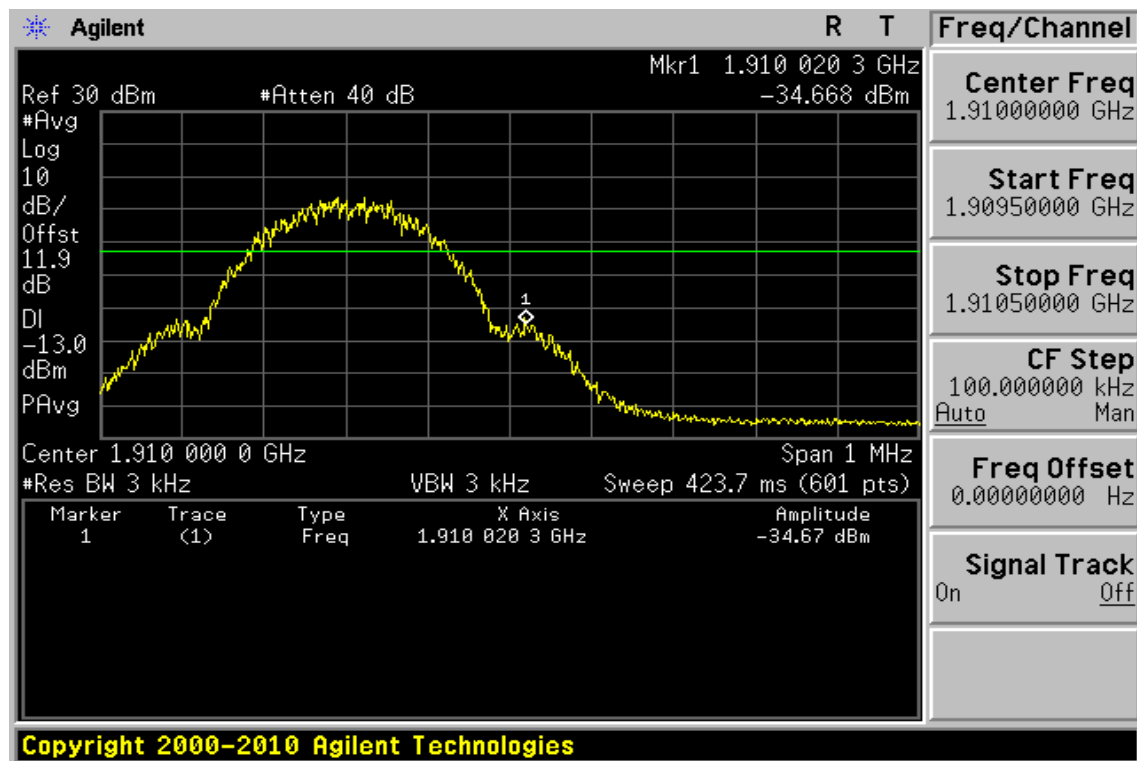


Figure 9-20: Band edge emission at antenna terminals – GPRS 1900 Channel Highest

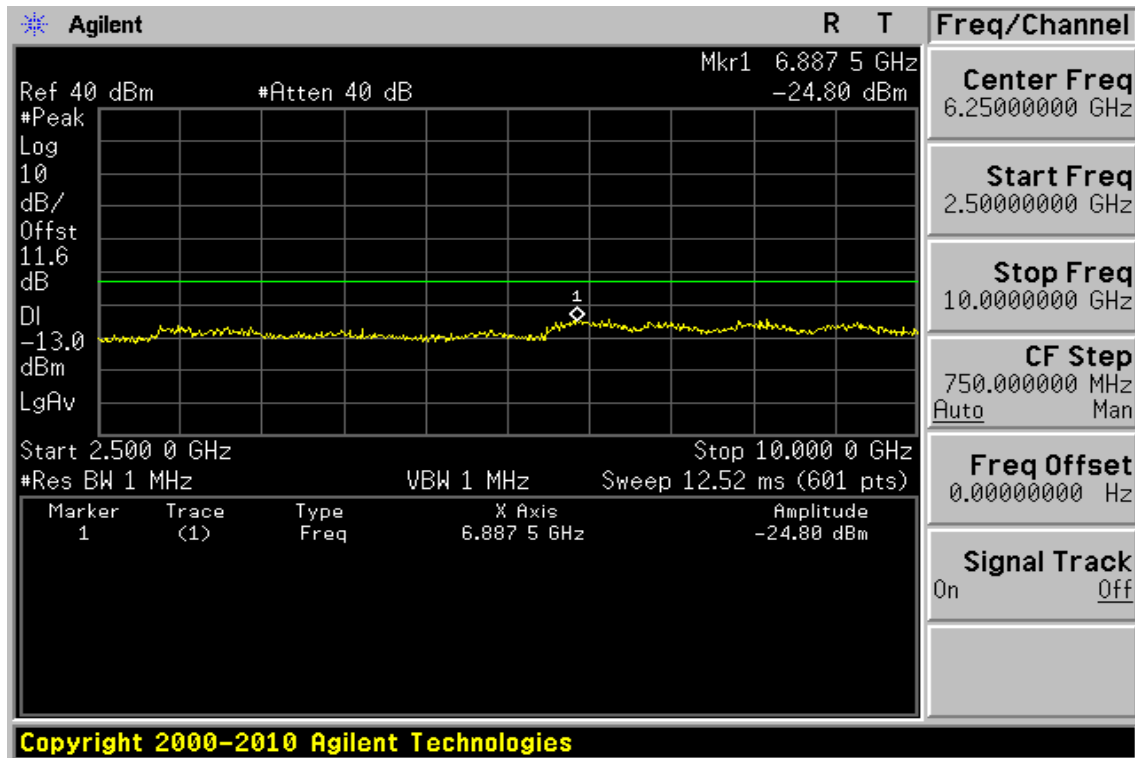
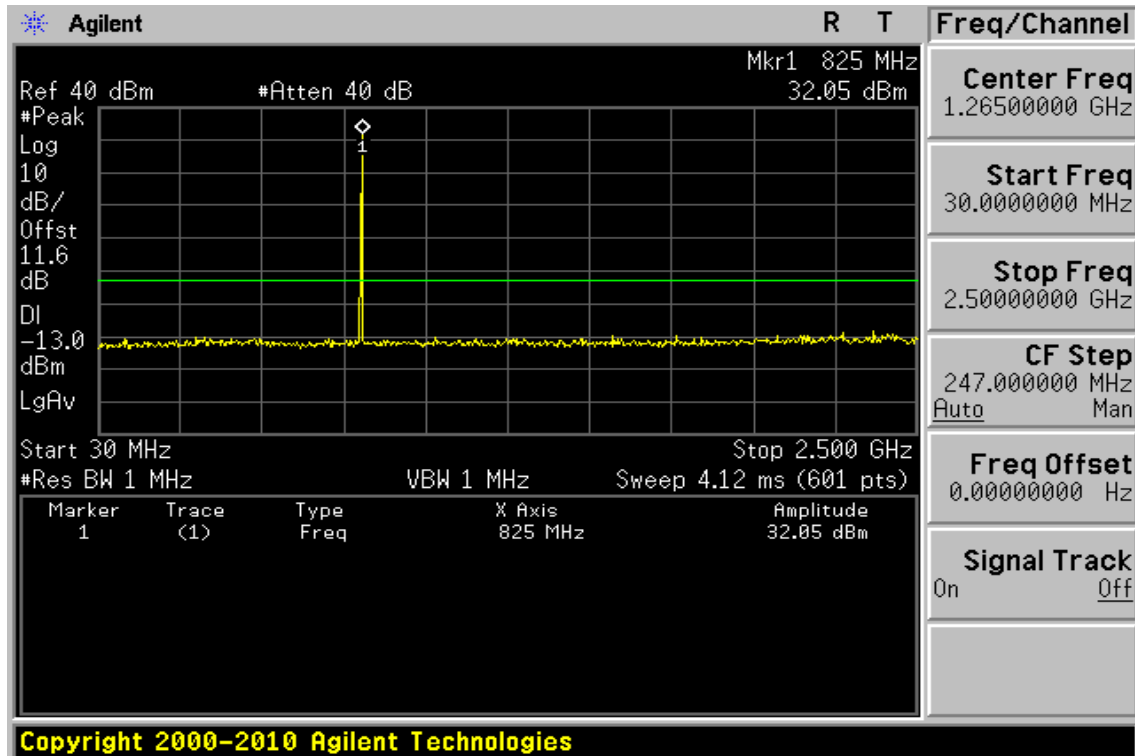


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Figure 9-21: Out of Band emission at antenna terminals – EDGE 850 Channel Lowest



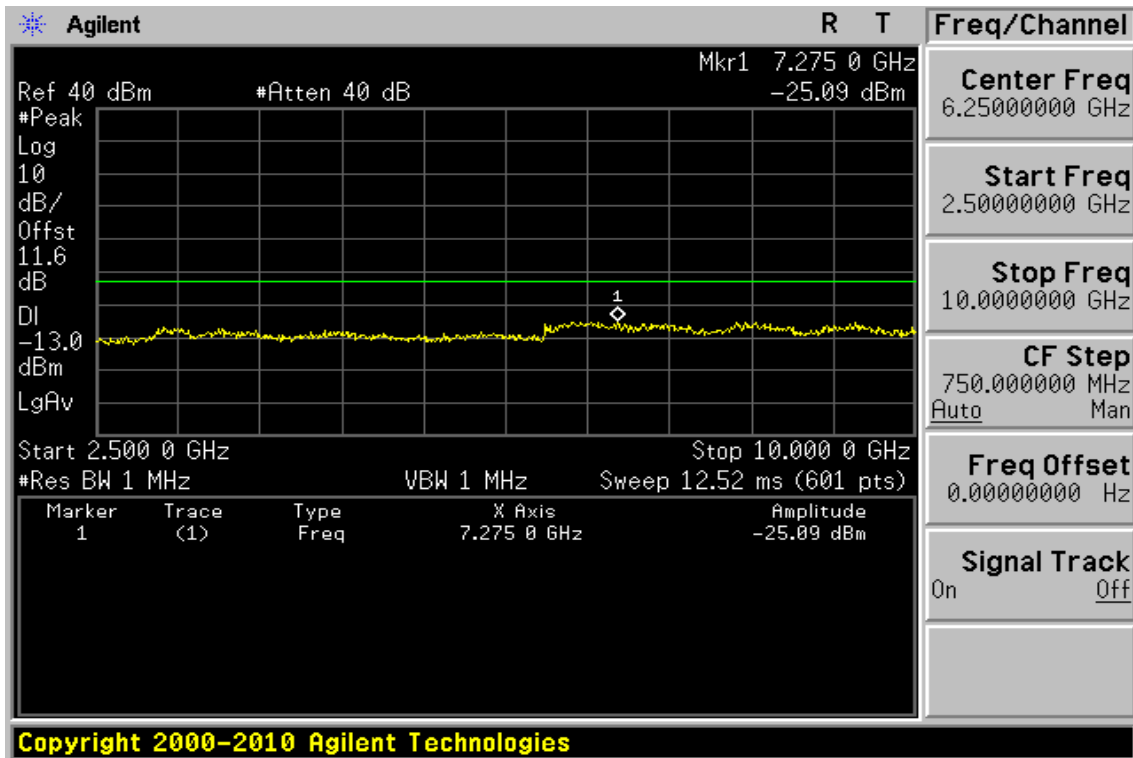
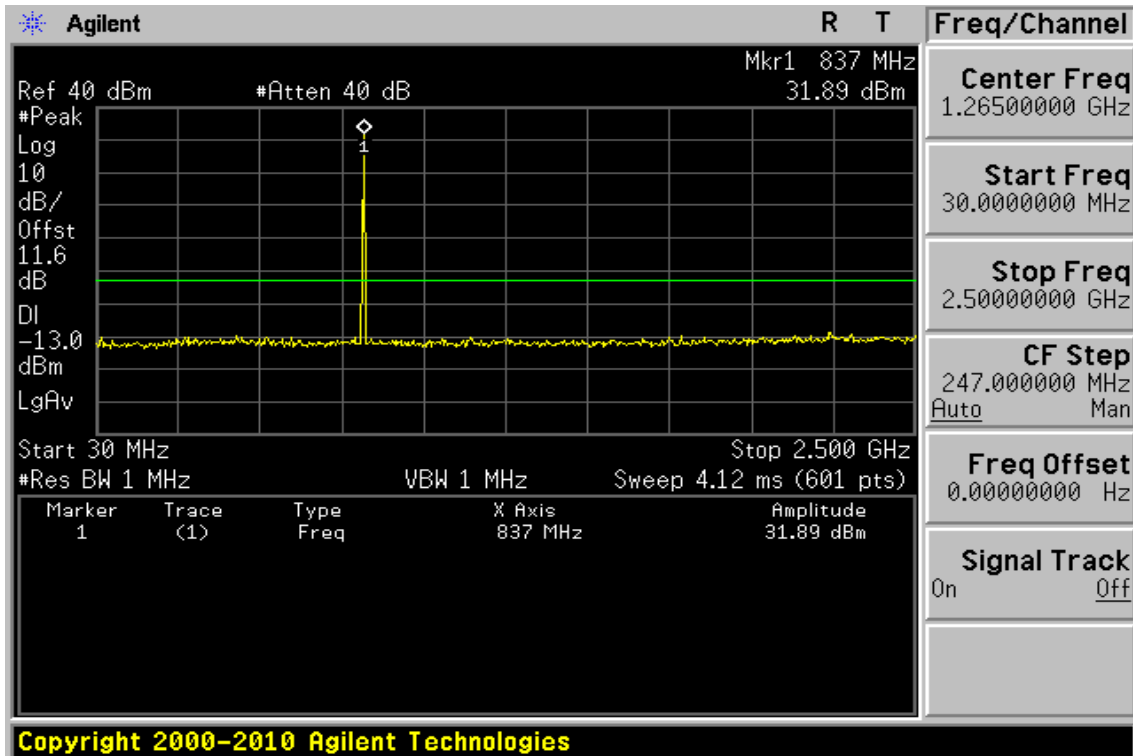
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Figure 9-22: Out of Band emission at antenna terminals – EDGE 850 Channel Mid

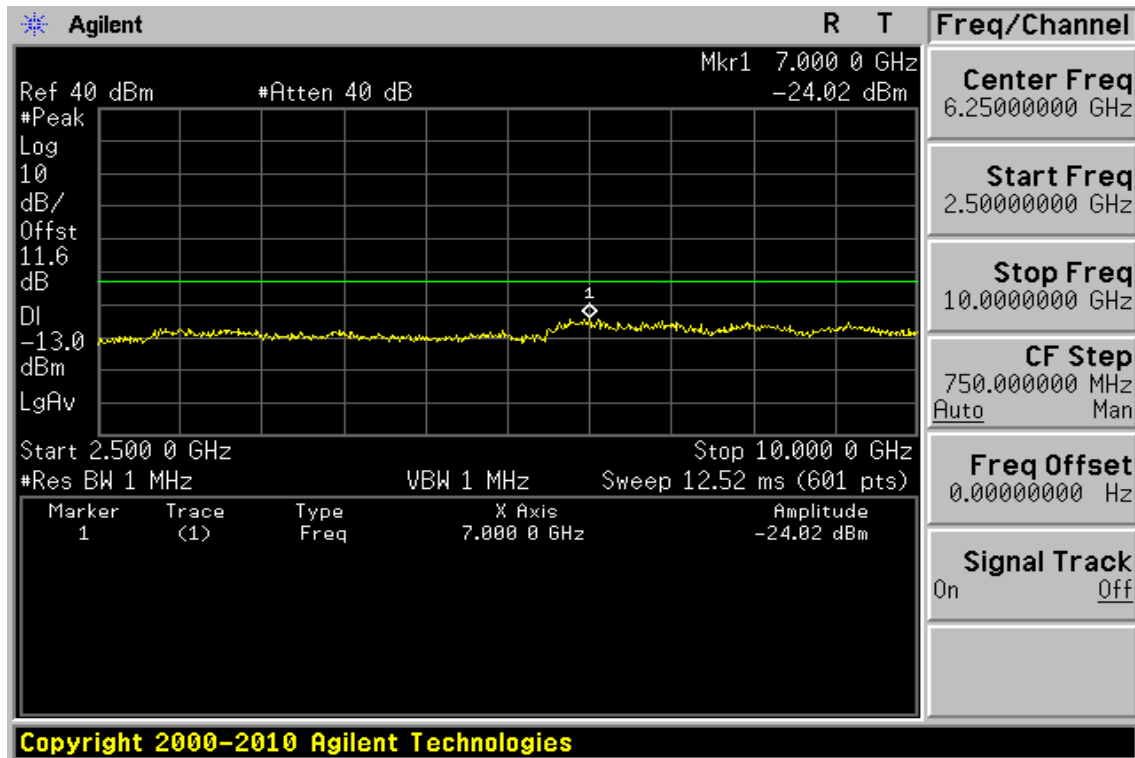
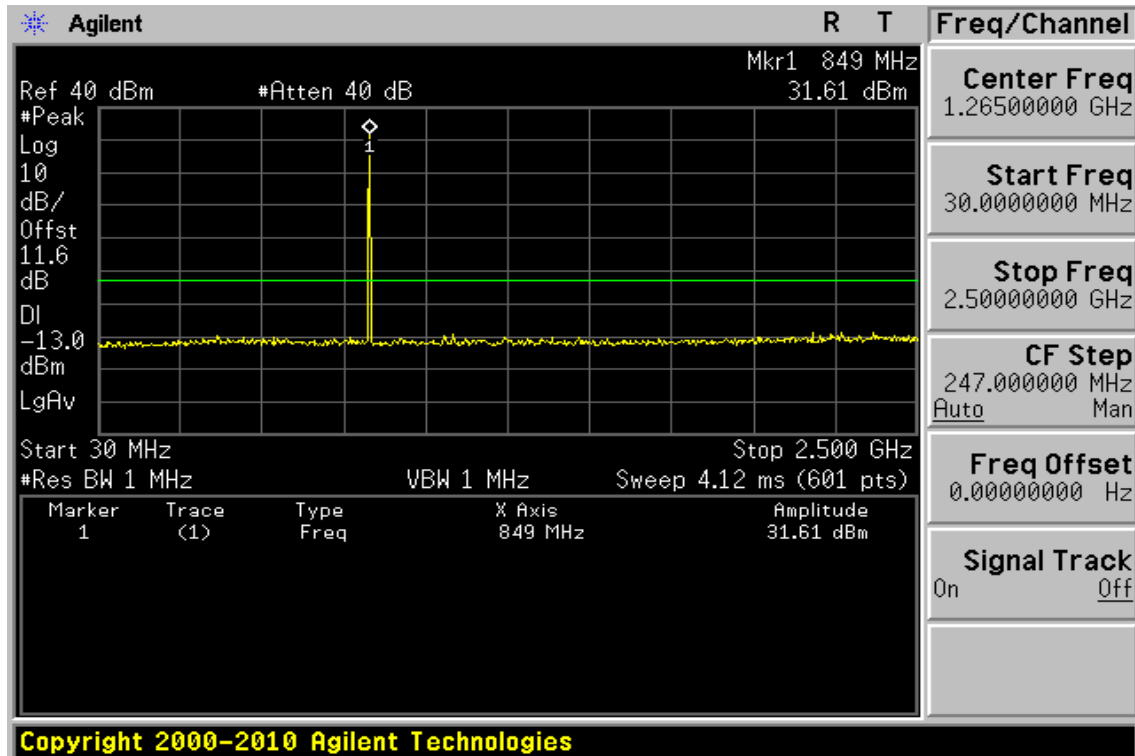


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Figure 9-23: Out of Band emission at antenna terminals – EDGE 850 Channel Highest



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

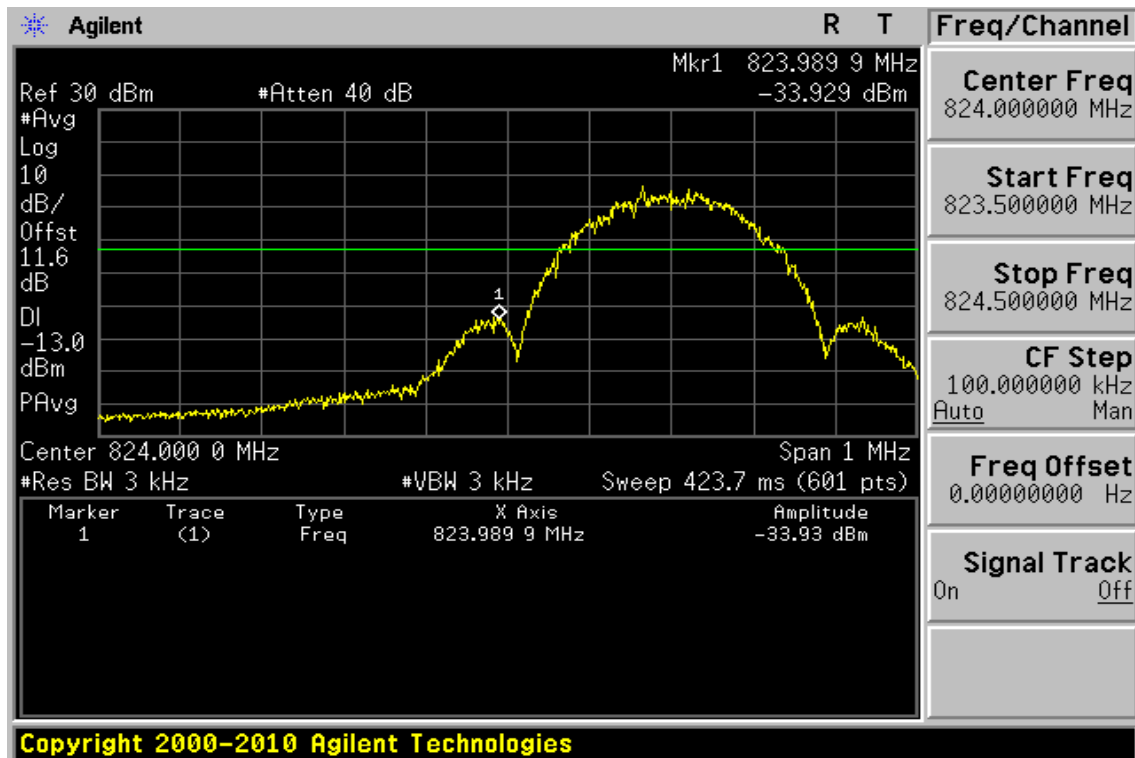
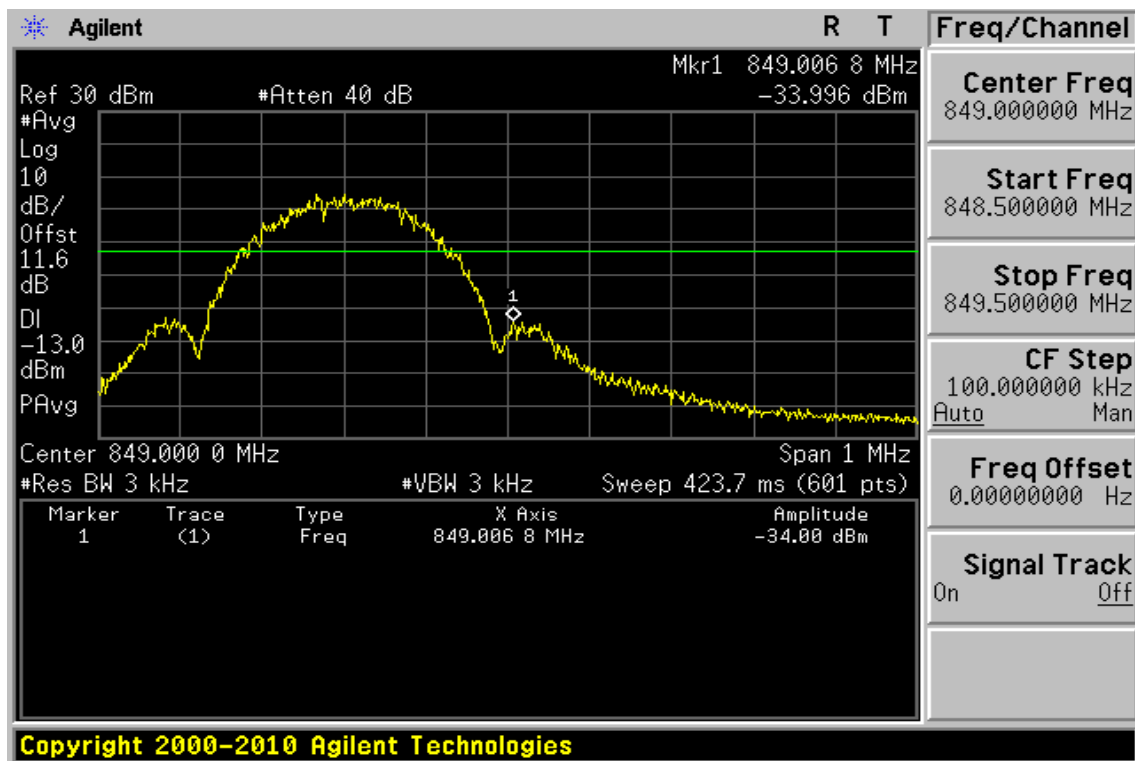


Figure 9-25: Band edge emission at antenna terminals – EDGE 850 Channel Highest

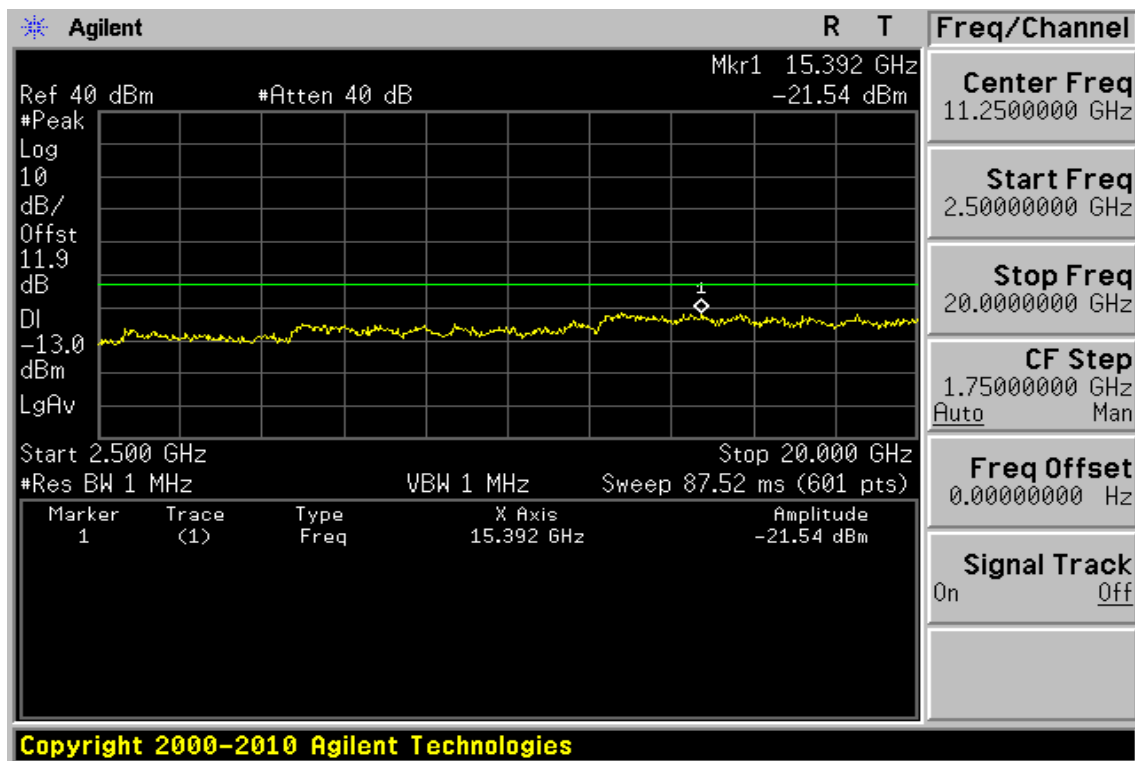
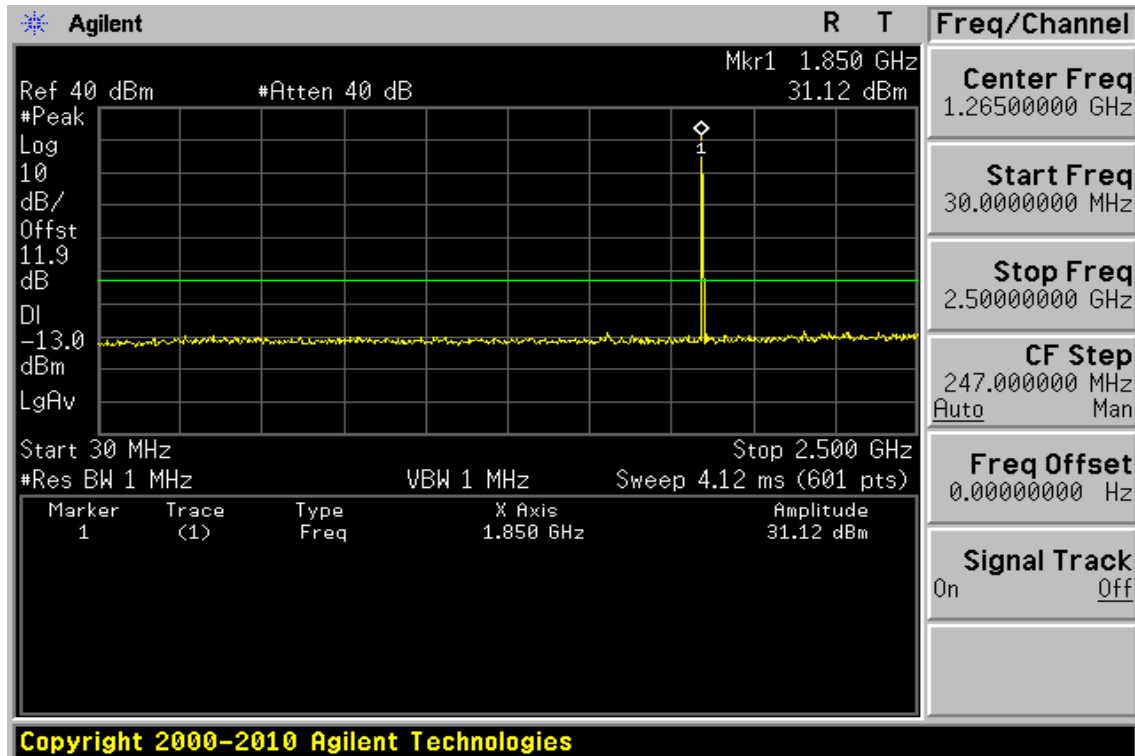


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Figure 9-26: Out of Band emission at antenna terminals – EDGE 1900 Channel Lowest

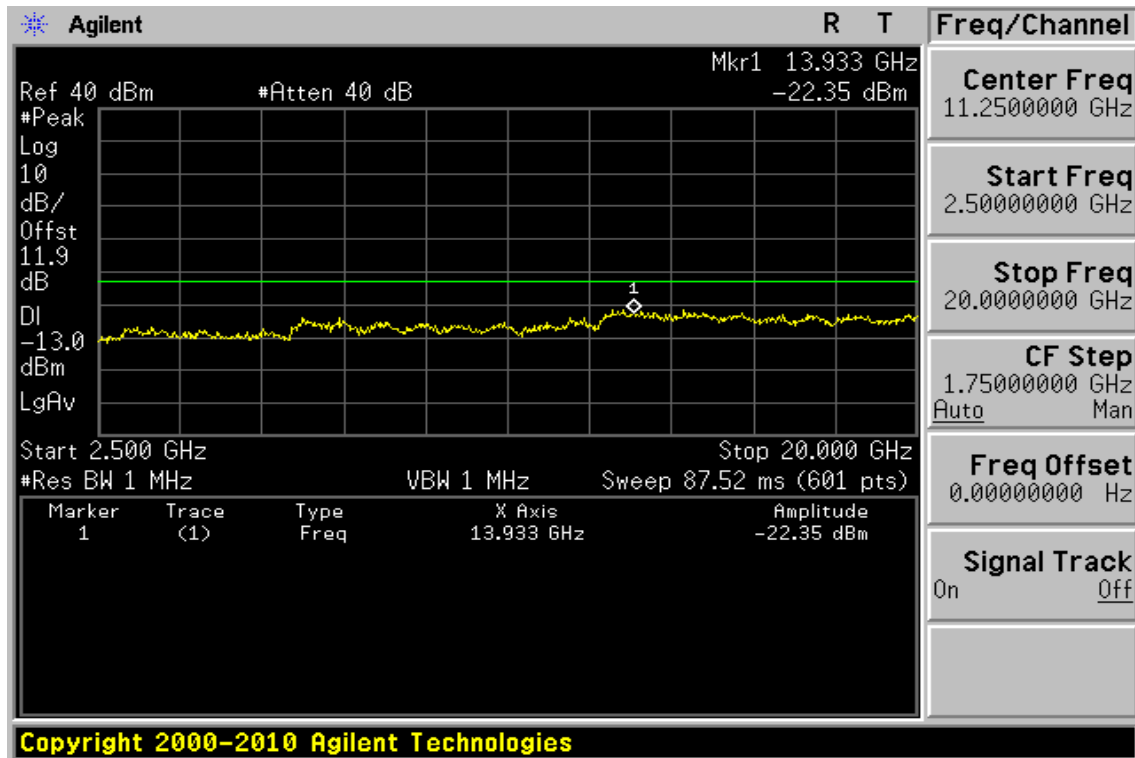
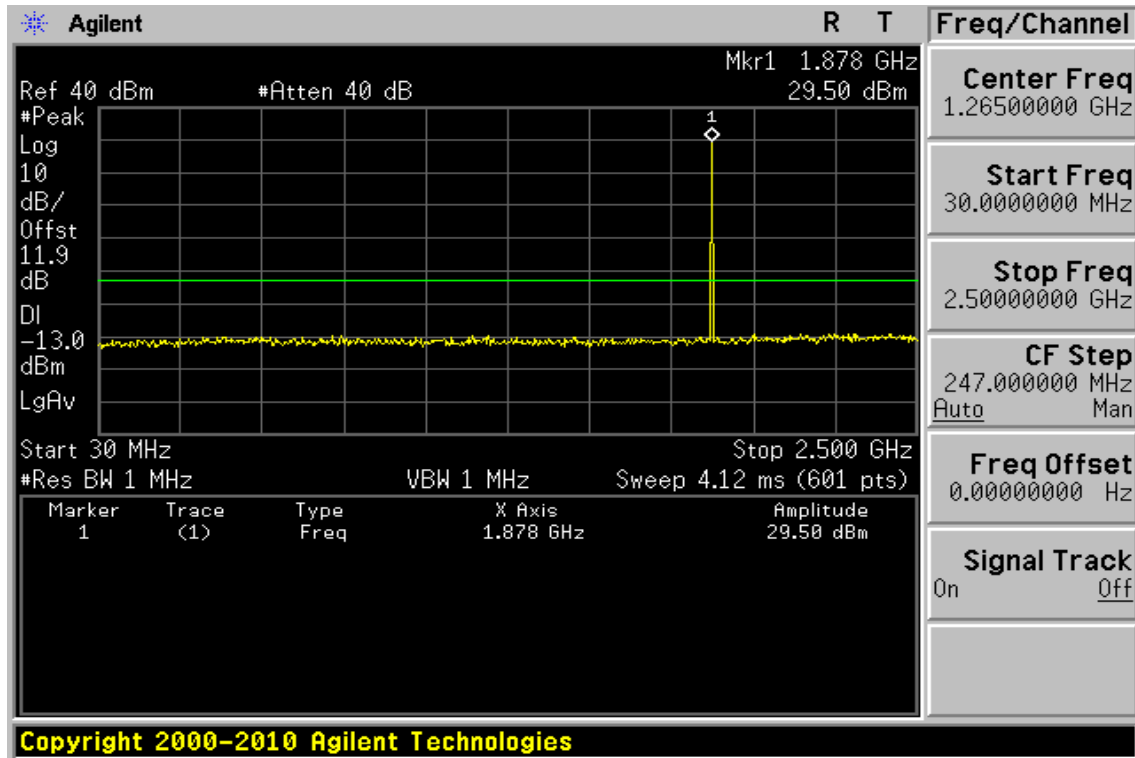


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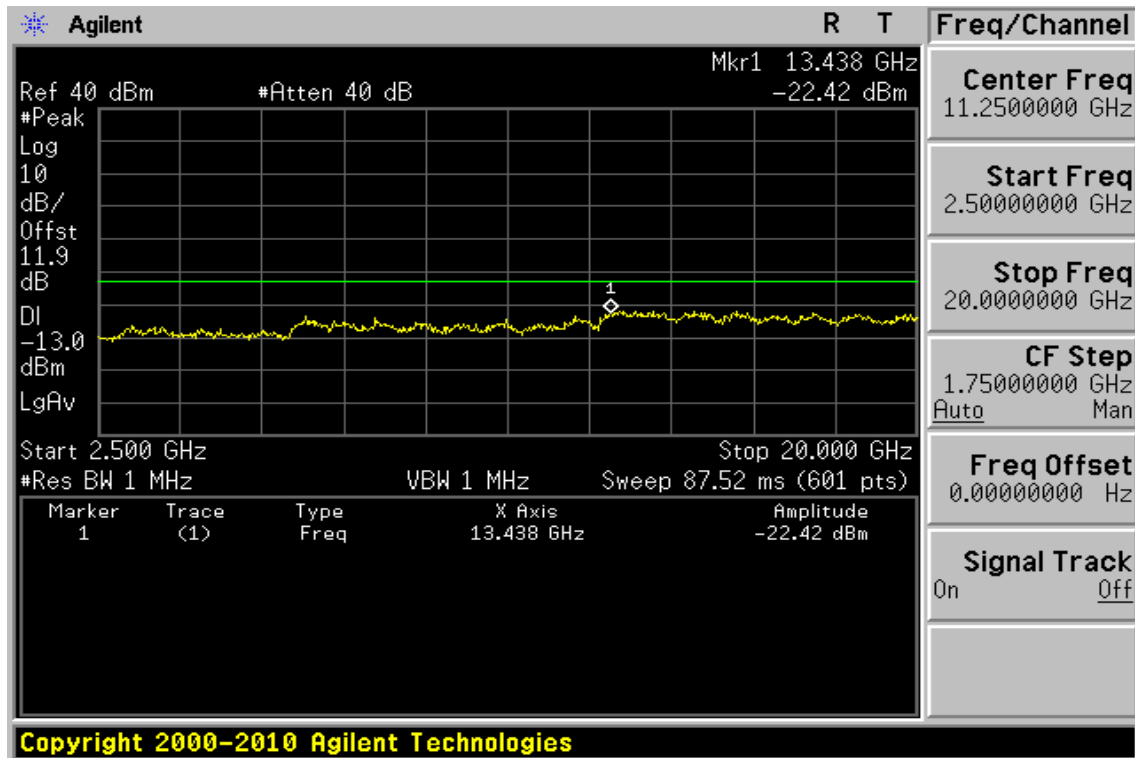
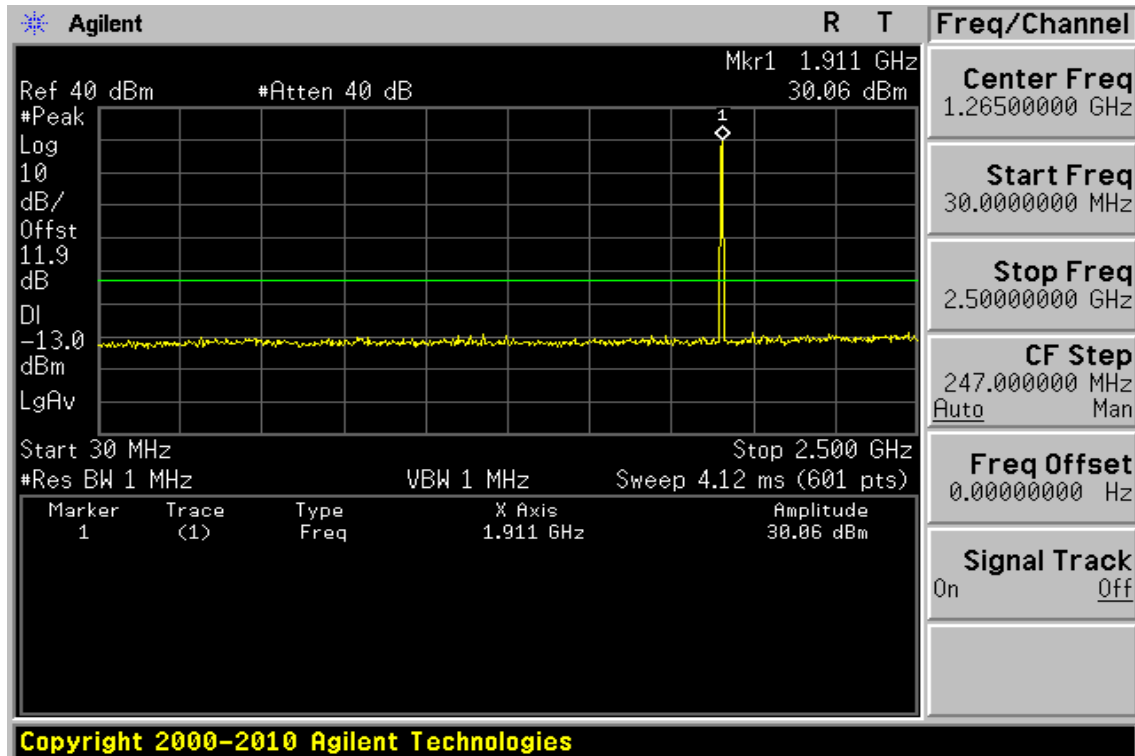
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Figure 9-27: Out of Band emission at antenna terminals – EDGE 1900 Channel Mid



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



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

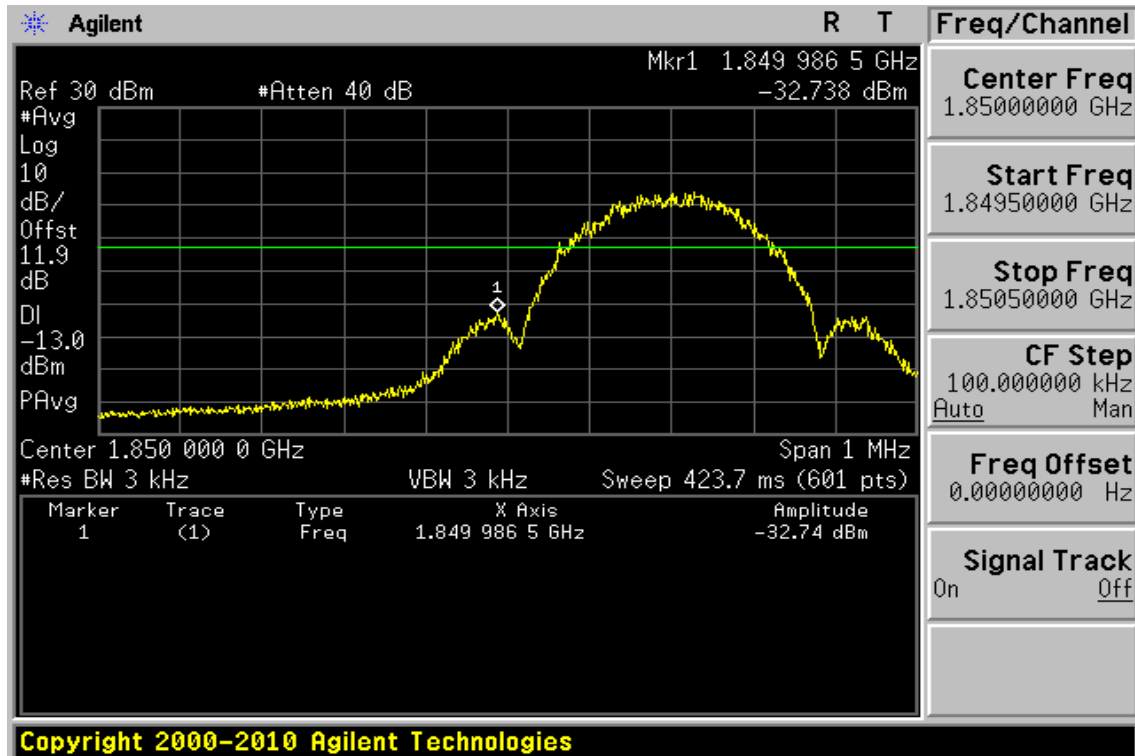
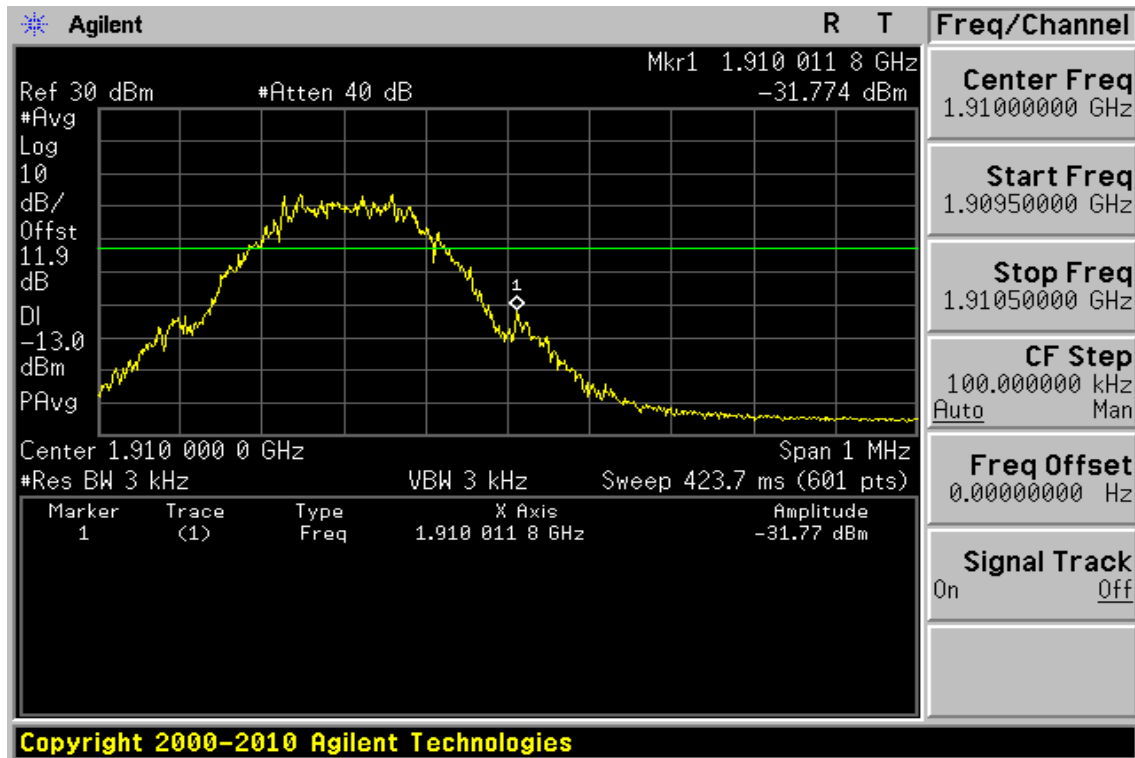


Figure 9-30: Band edge emission at antenna terminals – EDGE 1900 Channel Highest

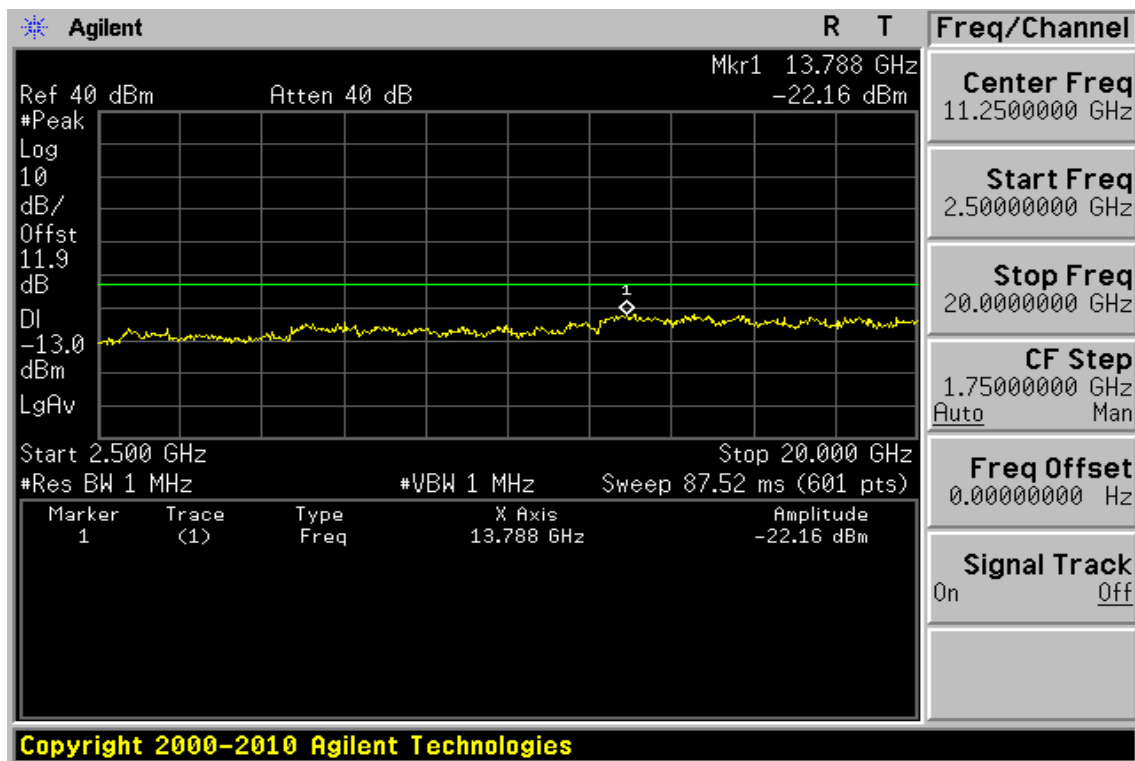
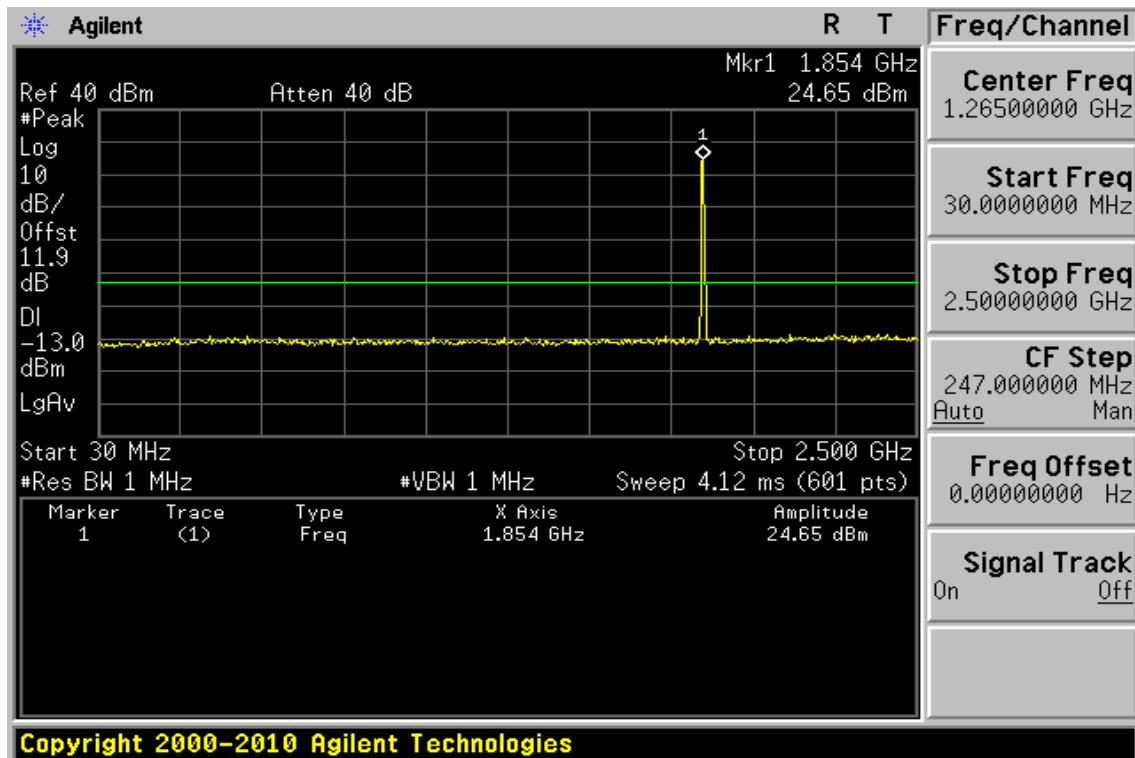


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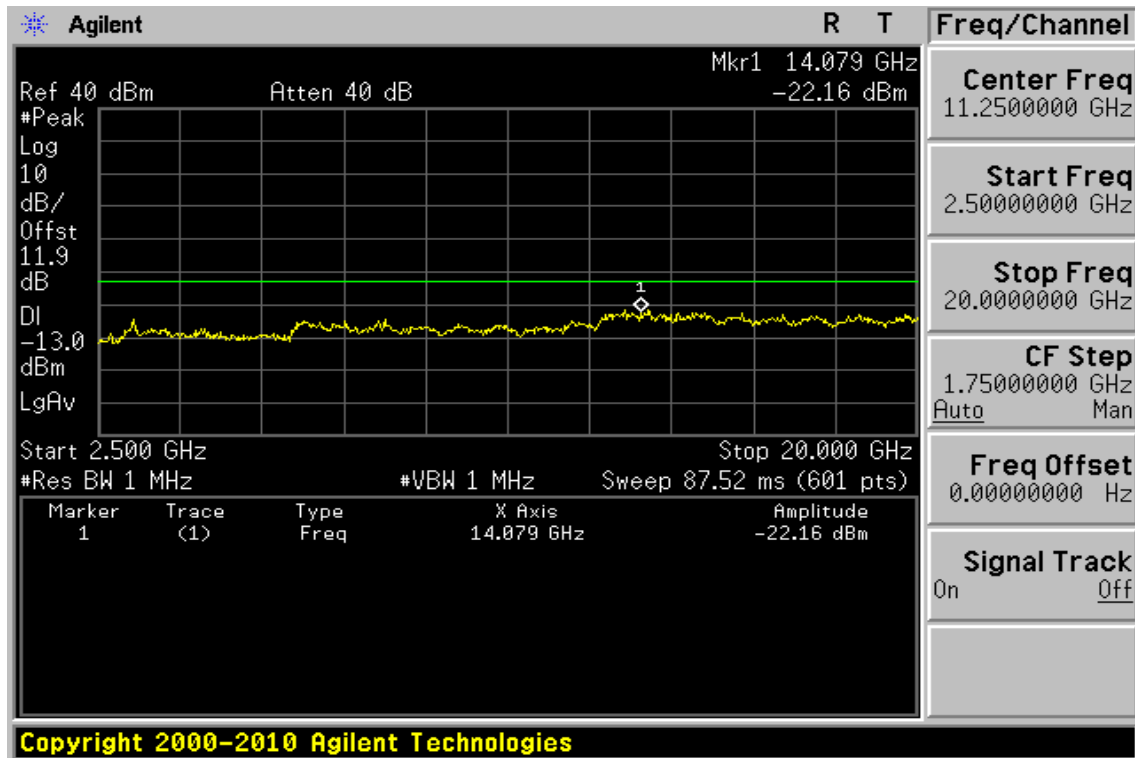
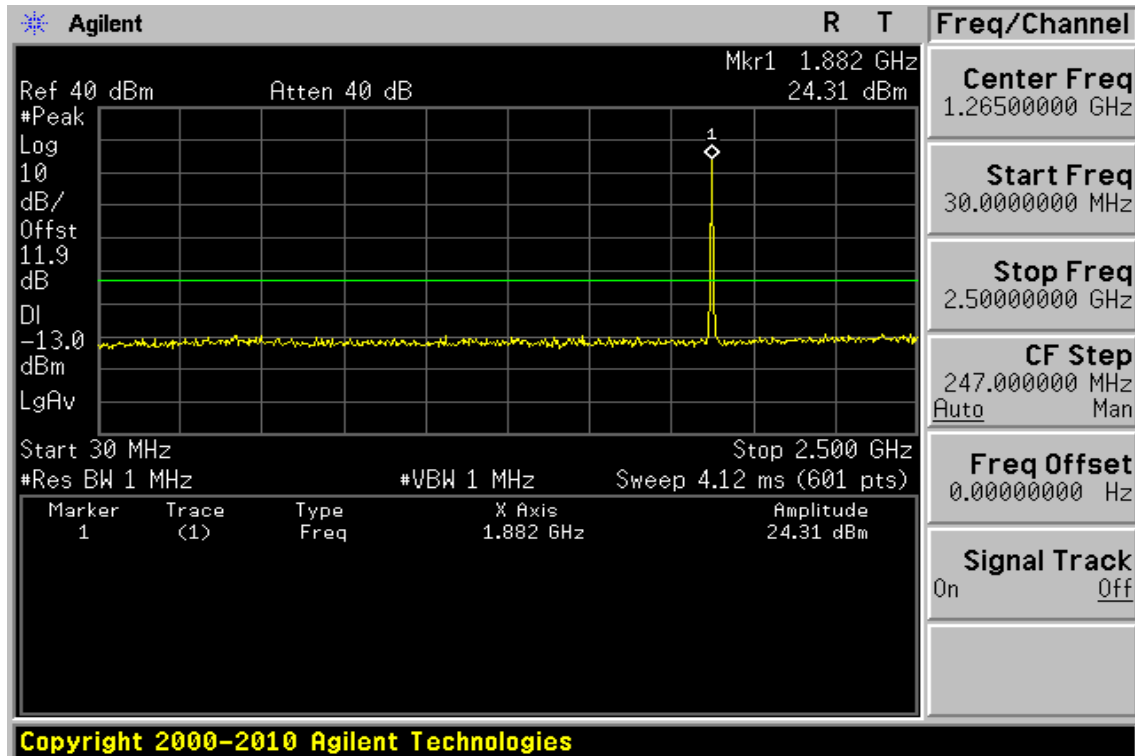
Figure 9-31: Out of Band emission at antenna terminals – WCDMA II Channel Lowest



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

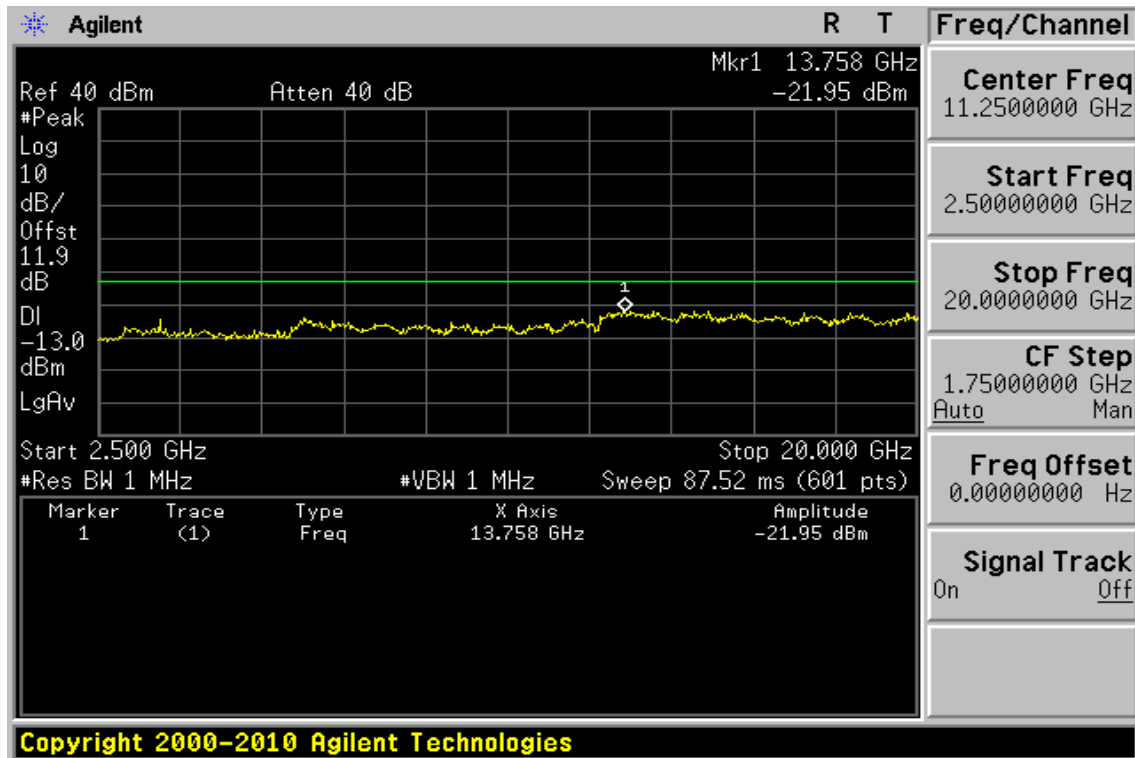
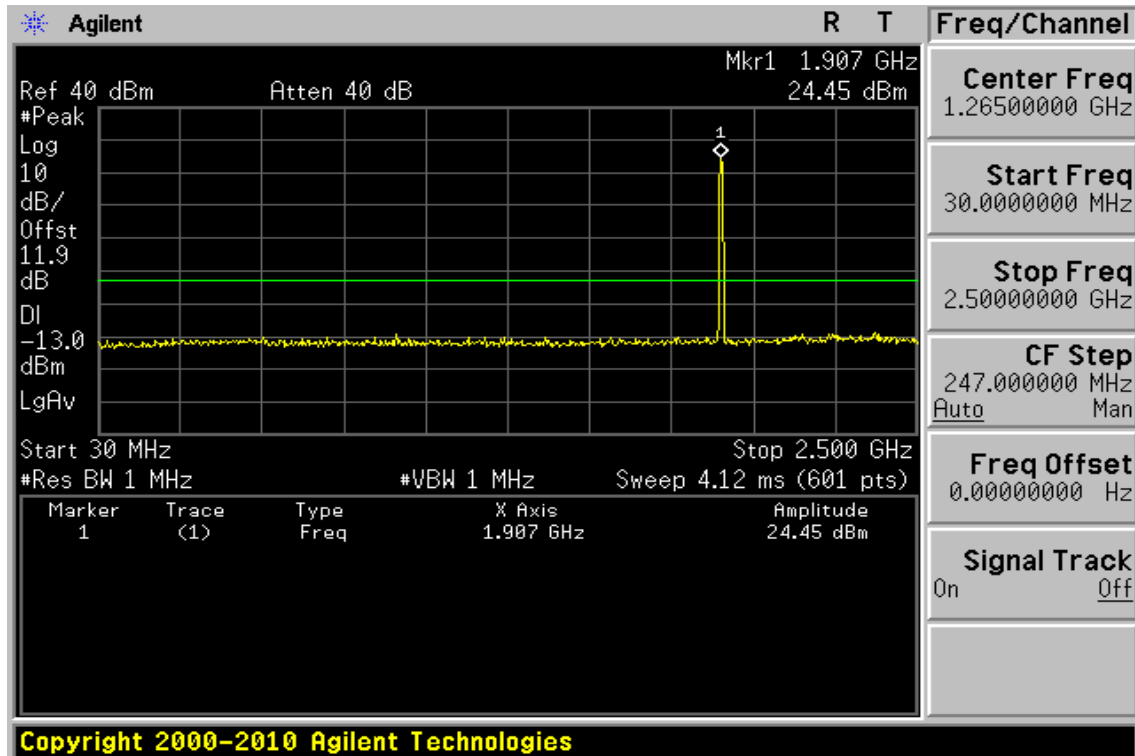


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Figure 9-33: Out of Band emission at antenna terminals – WCDMA II Channel Highest



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

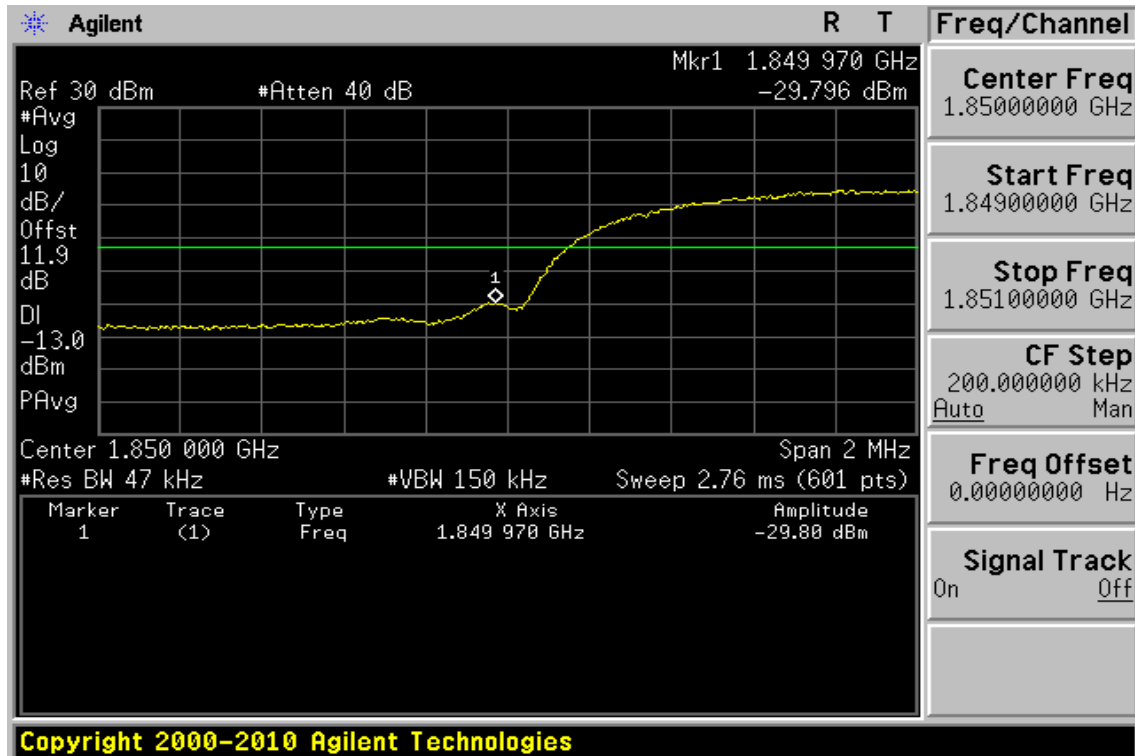
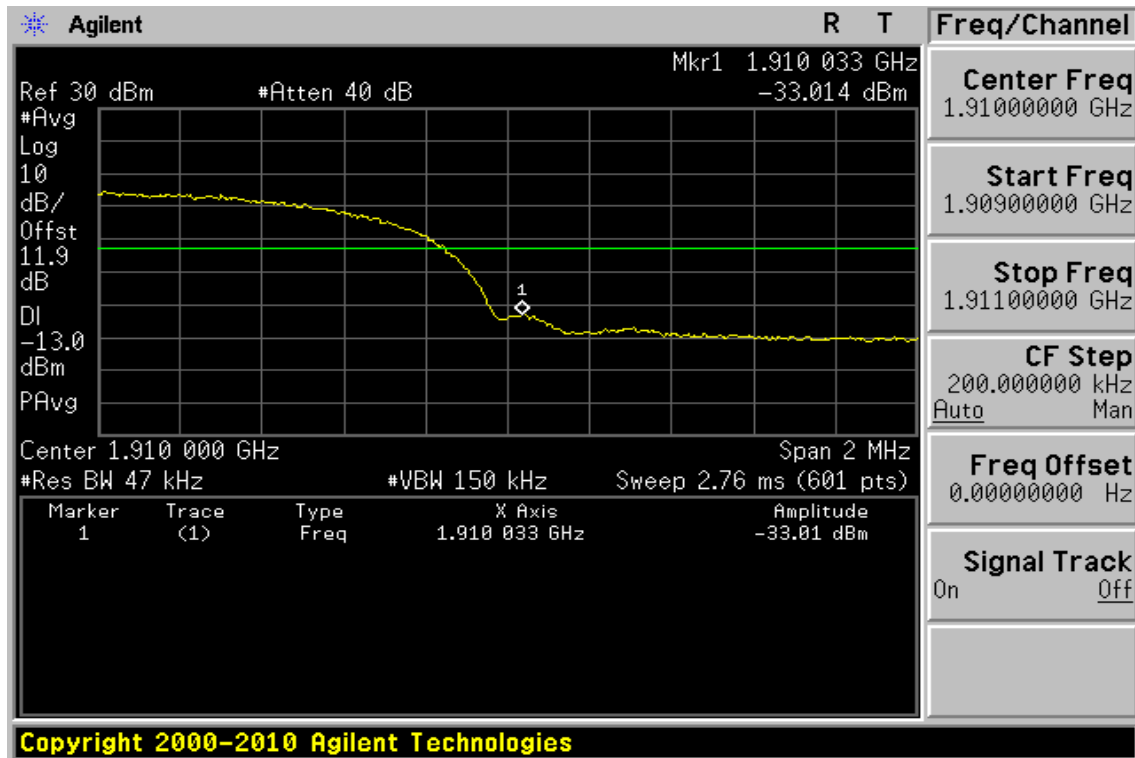


Figure 9-35: Band edge emission at antenna terminals – WCDMA II Channel Highest

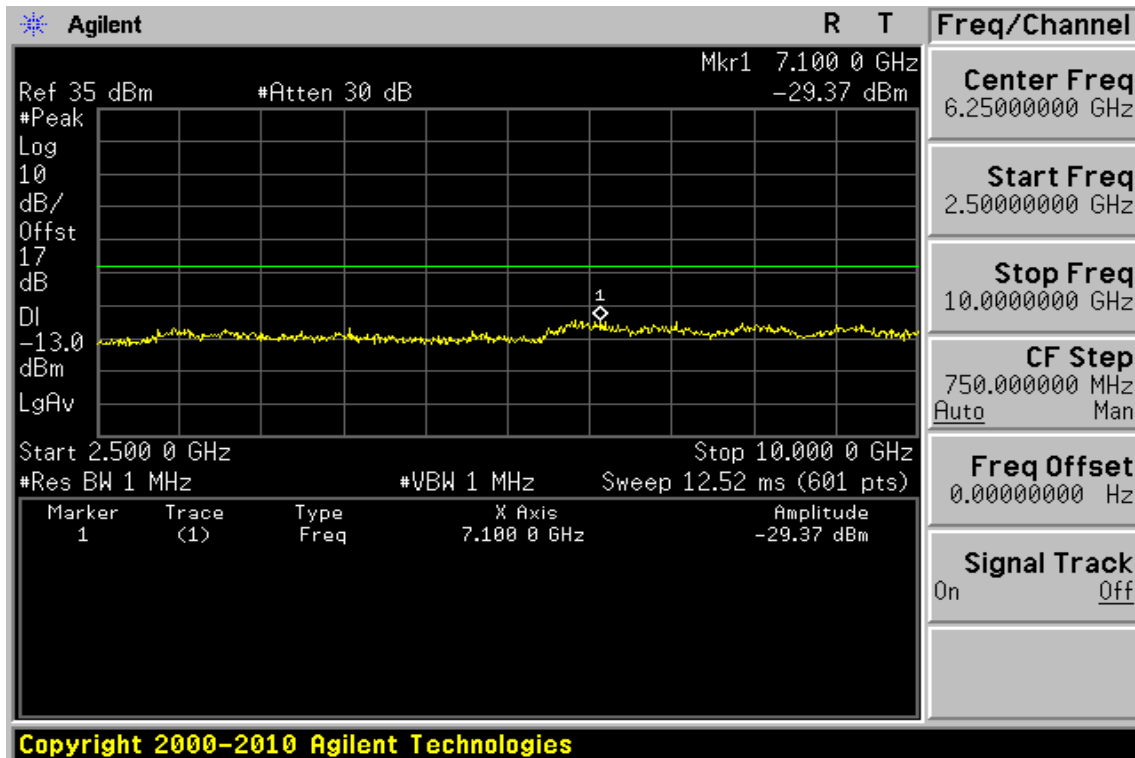
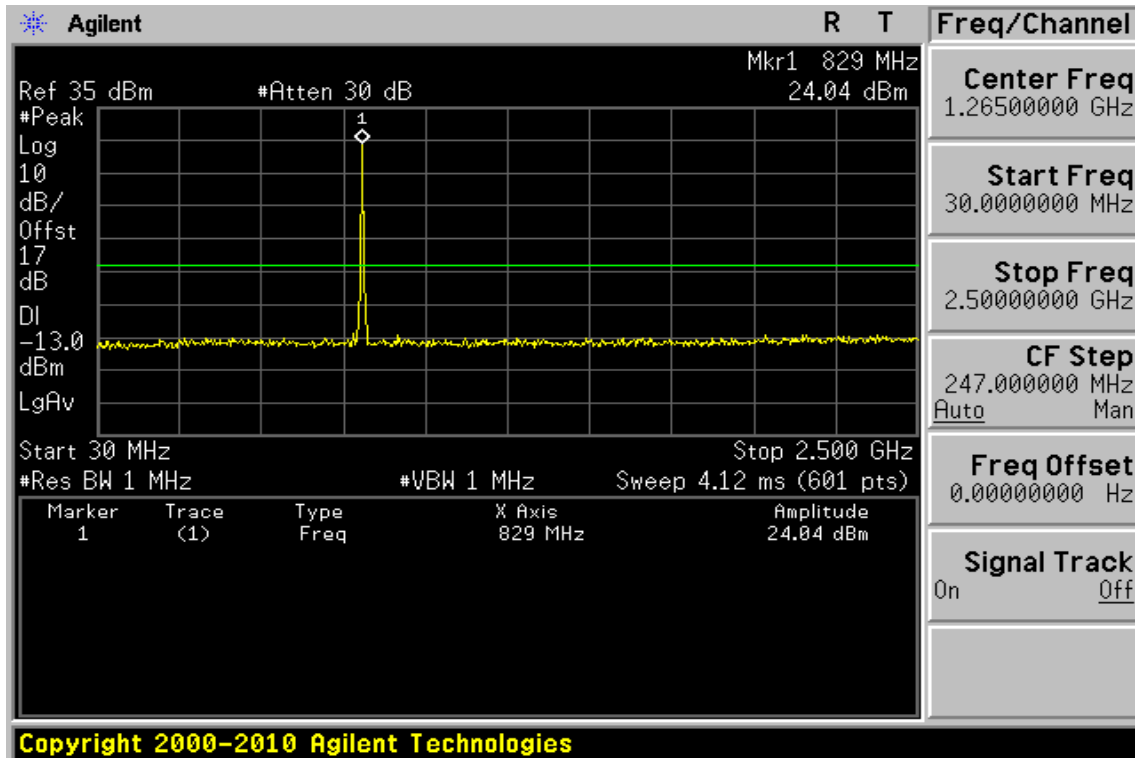


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Figure 9-36: Out of Band emission at antenna terminals – WCDMA V Channel Lowest

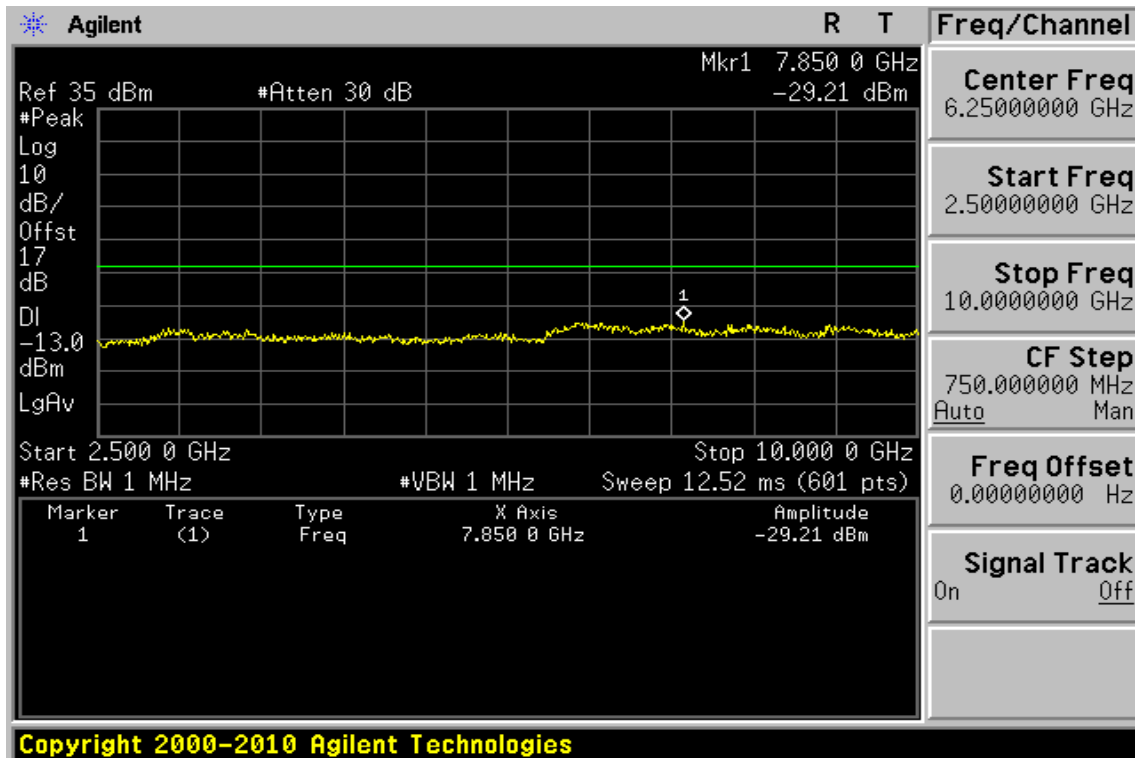
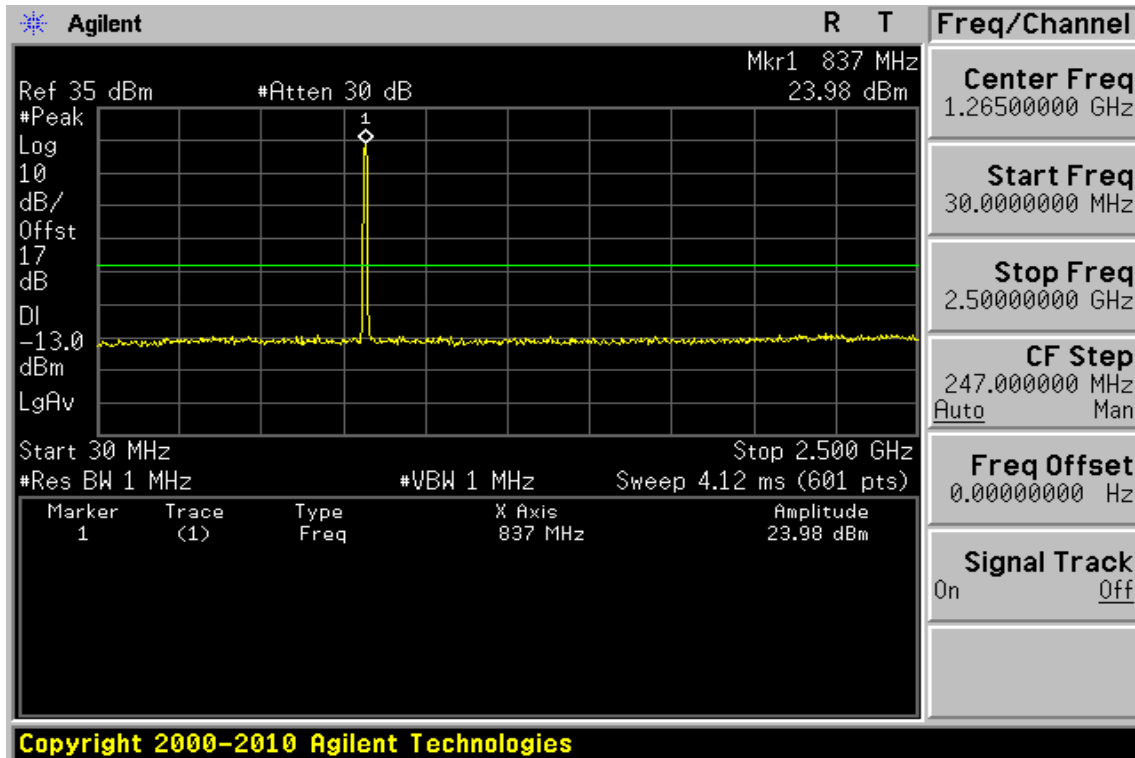


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Figure 9-37: Out of Band emission at antenna terminals – WCDMA V Channel Mid

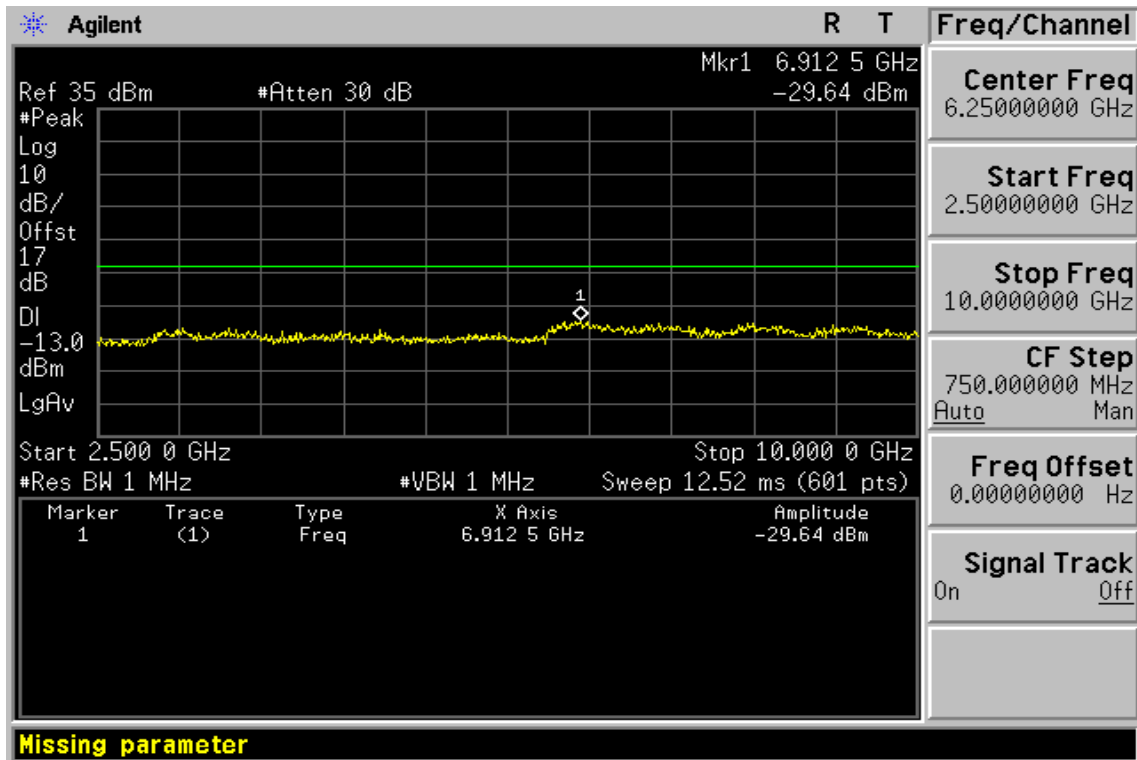
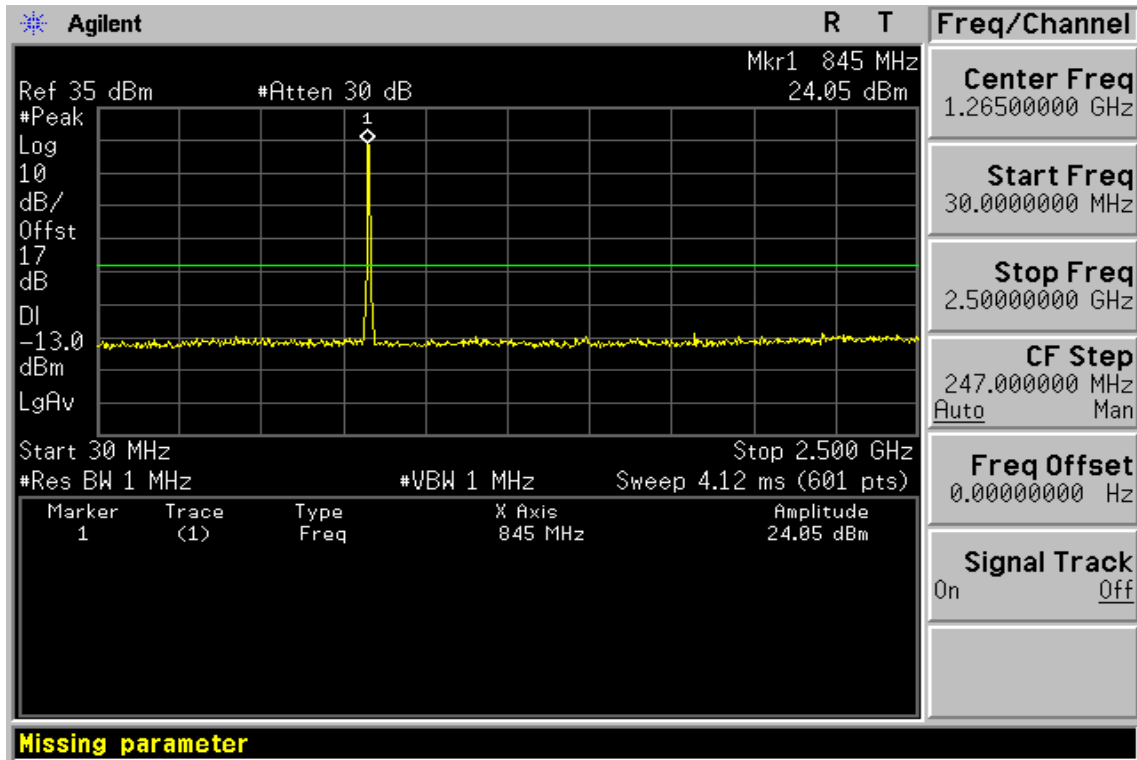


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Figure 9-38: Out of Band emission at antenna terminals – WCDMA V Channel Highest



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

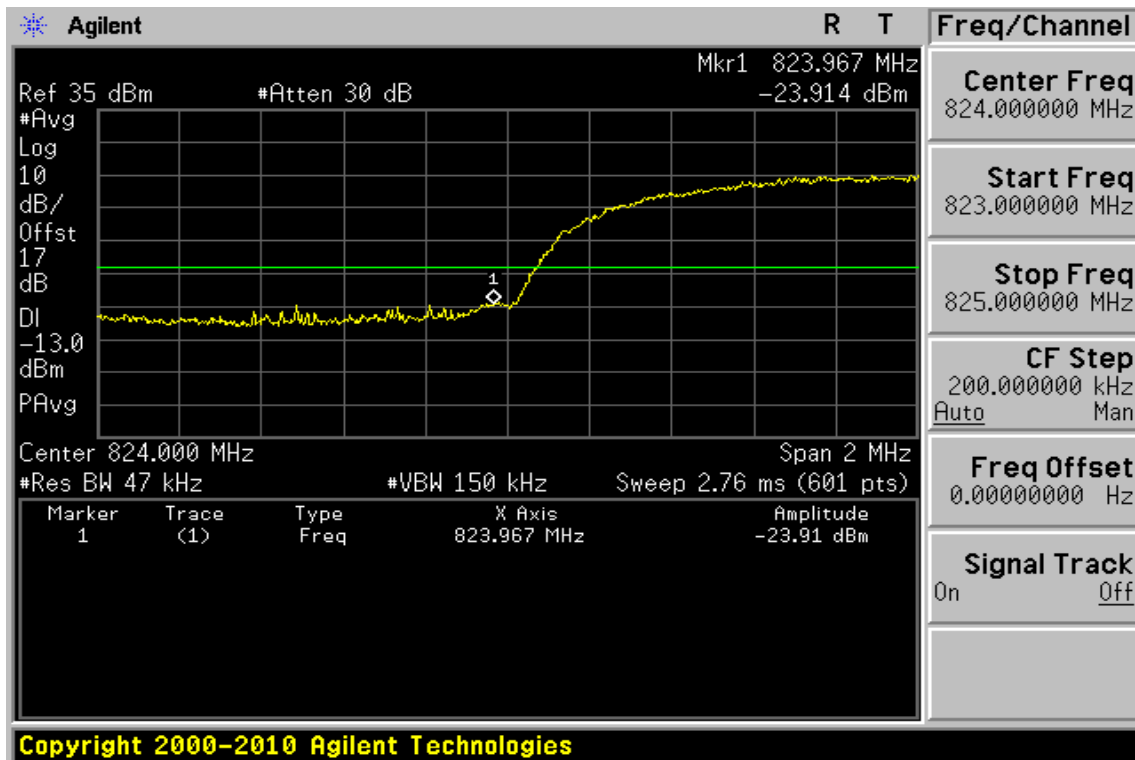
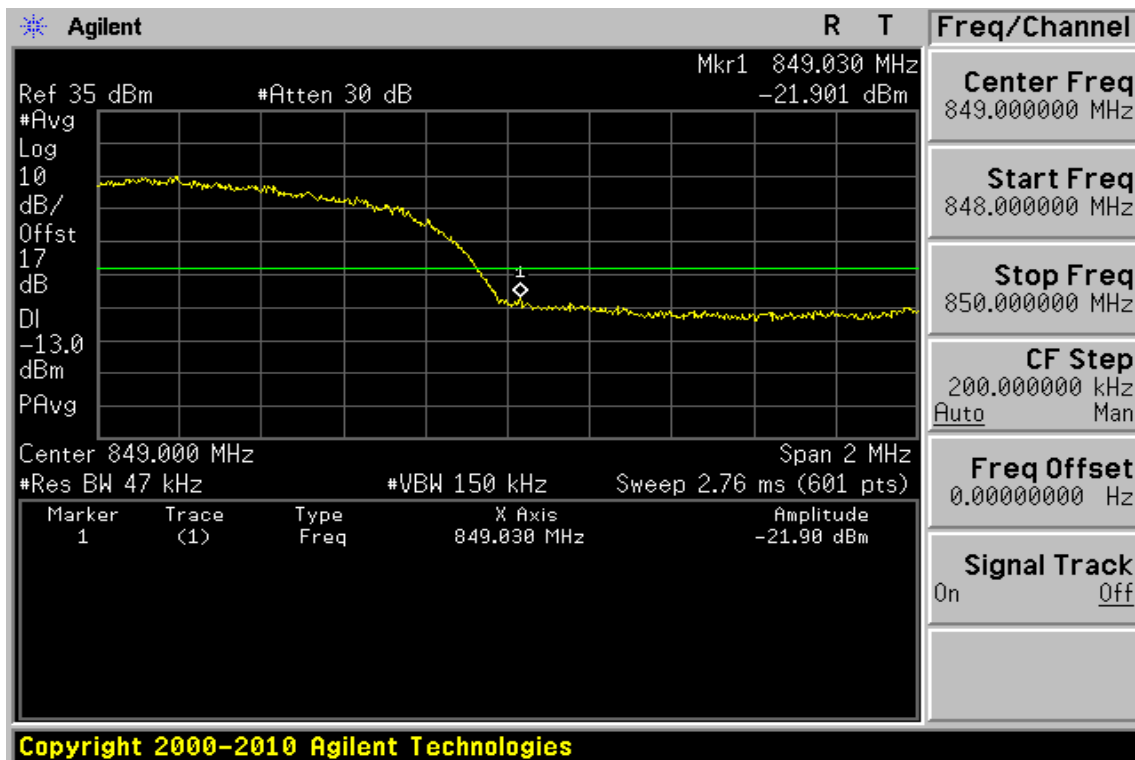


Figure 9-40: Band edge emission at antenna terminals – WCDMA V Channel Highest

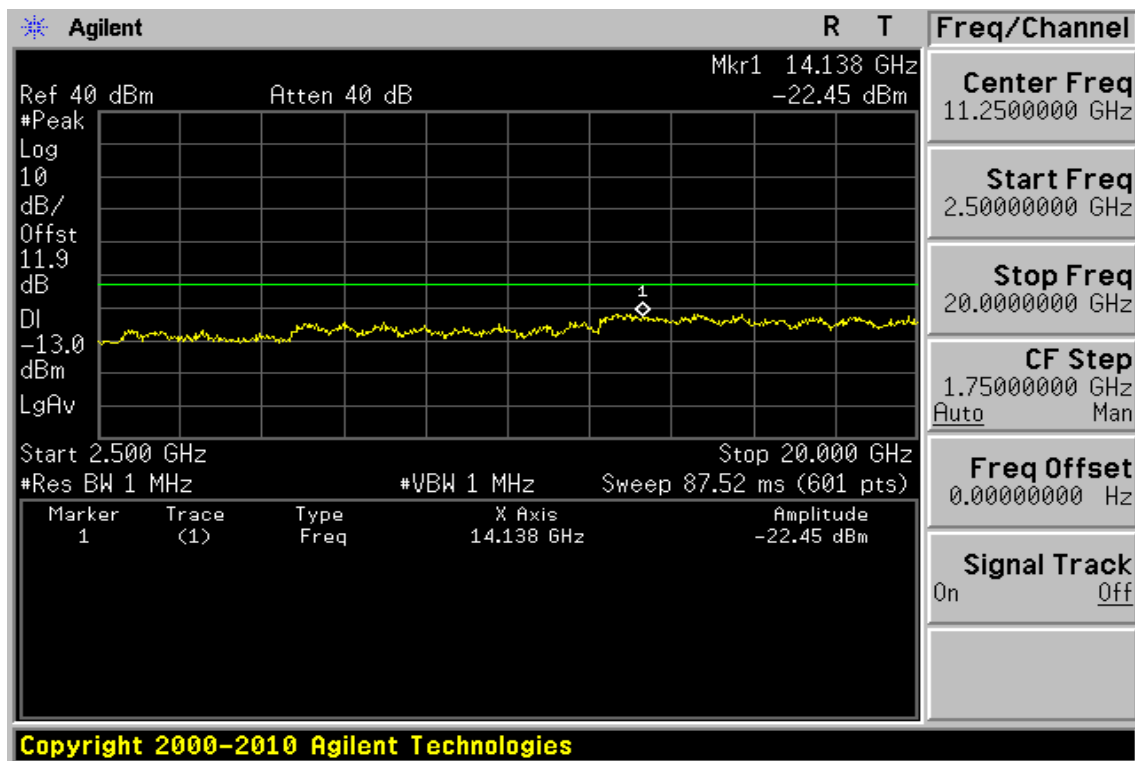
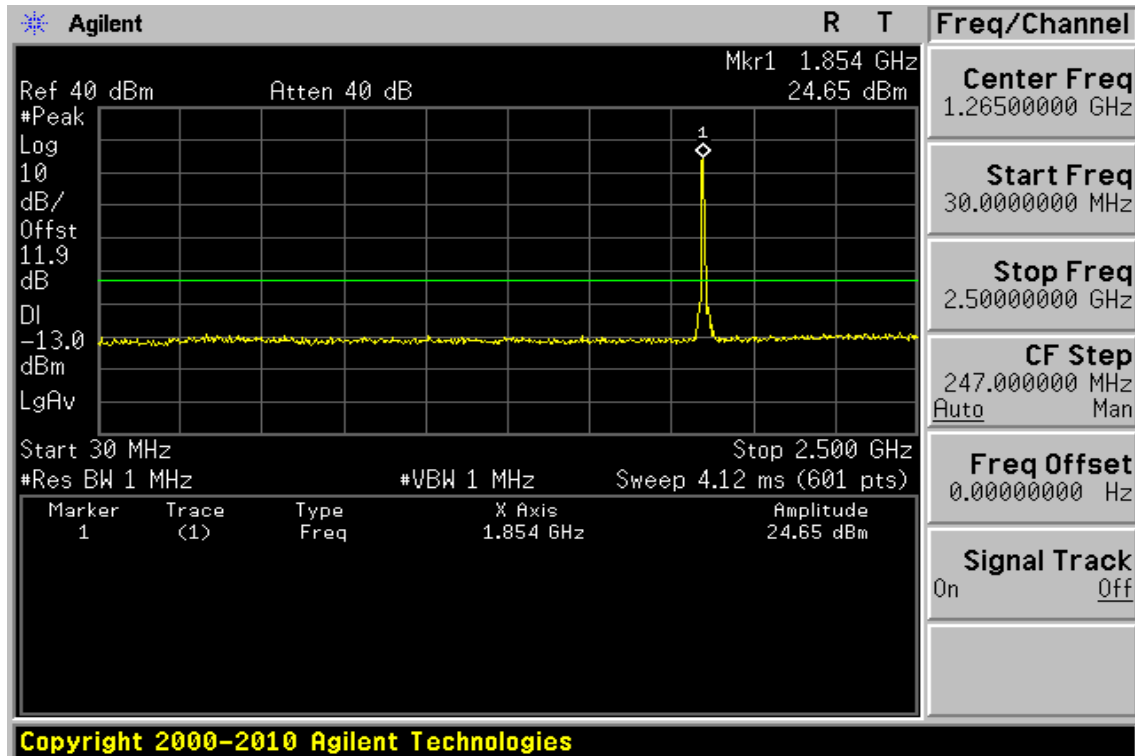


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Figure 9-41: Out of Band emission at antenna terminals – HSUPA II Channel Lowest



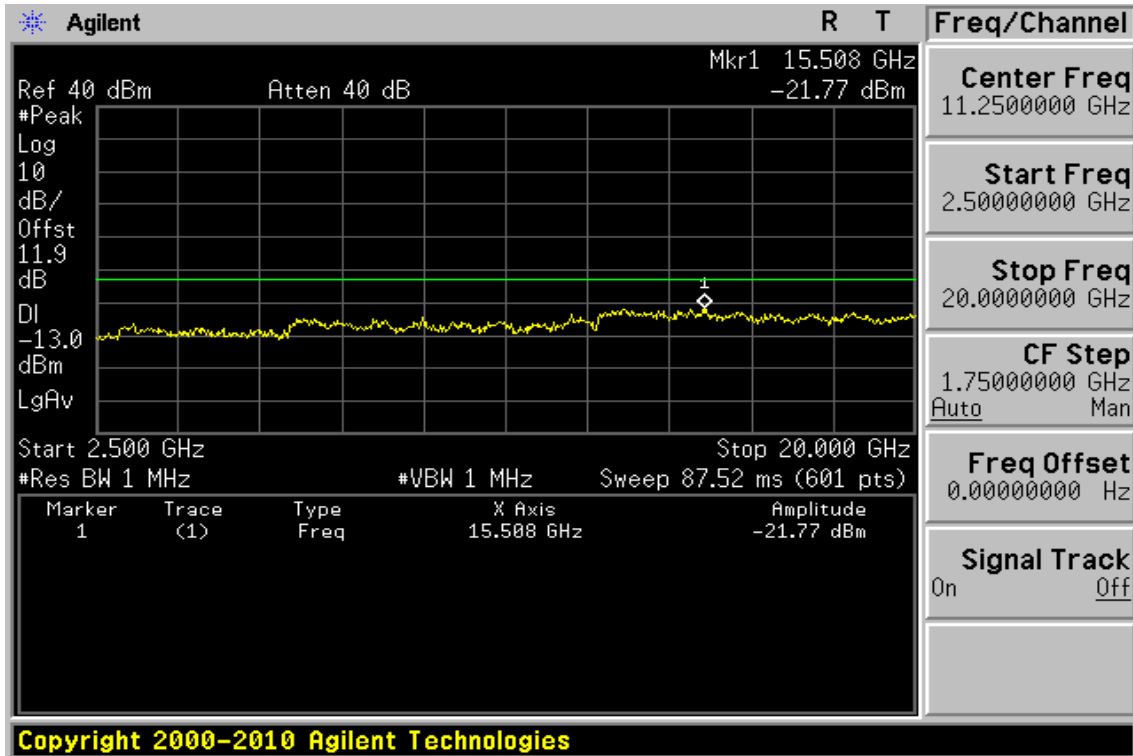
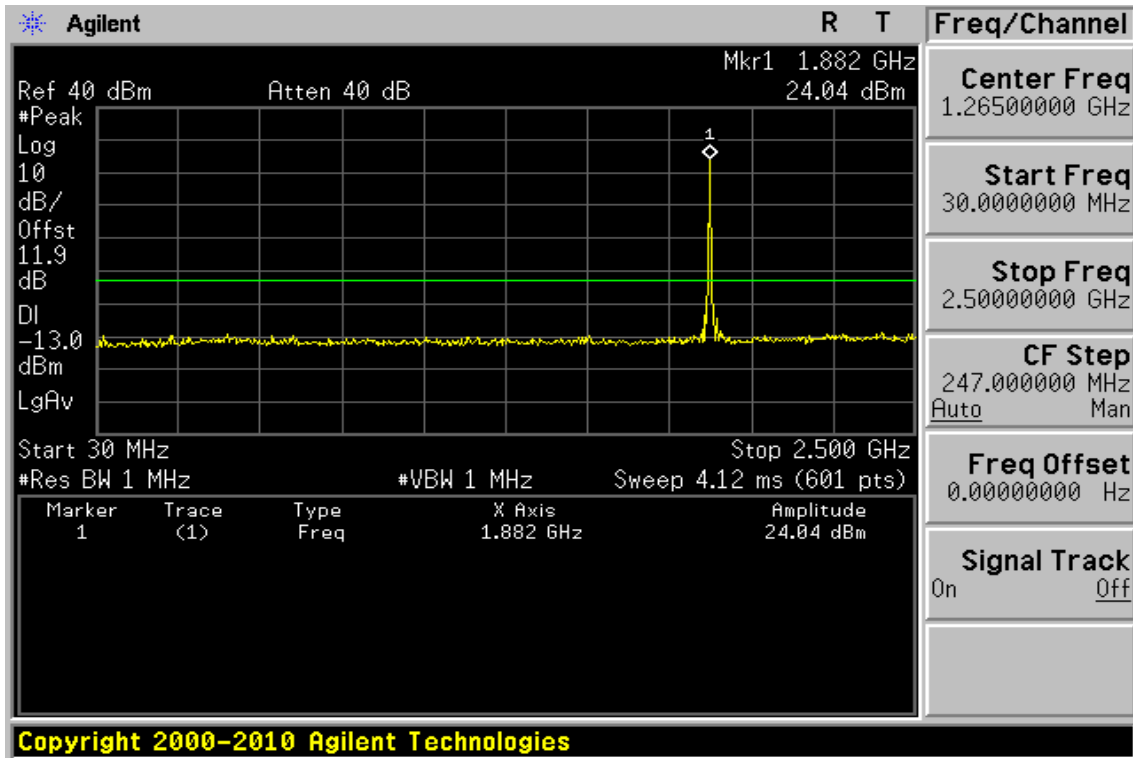
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Figure 9-42: Out of Band emission at antenna terminals – HSUPA II Channel Mid

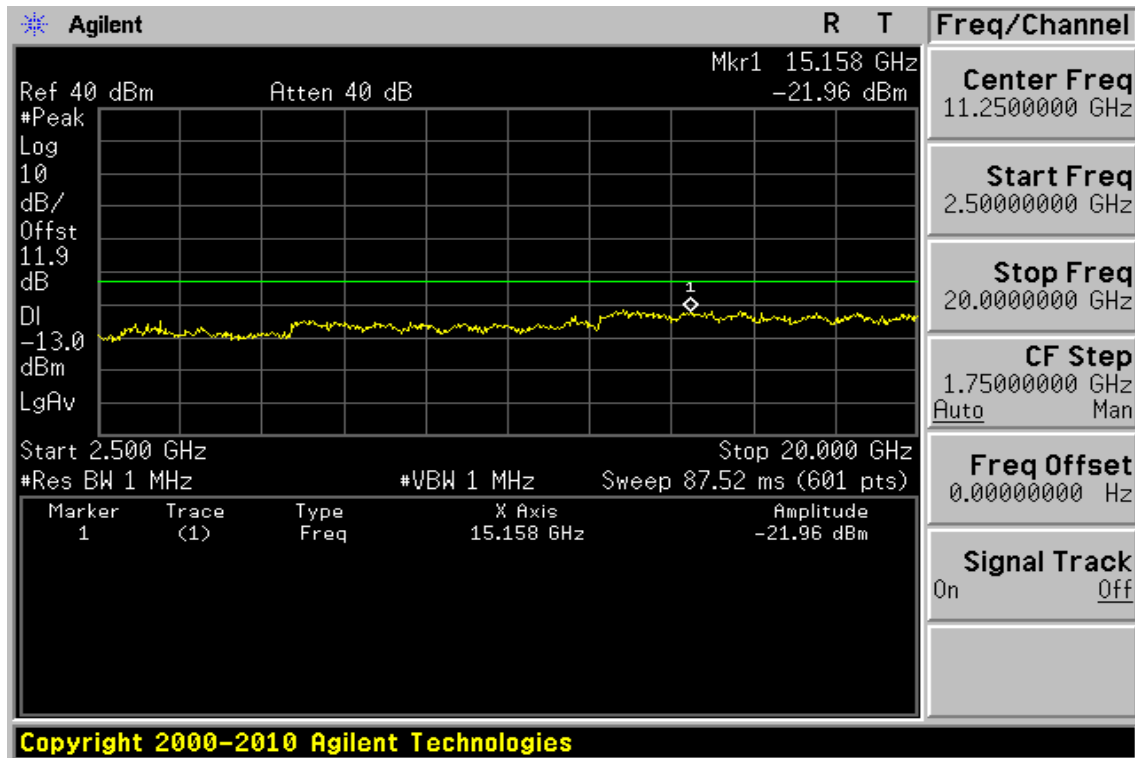
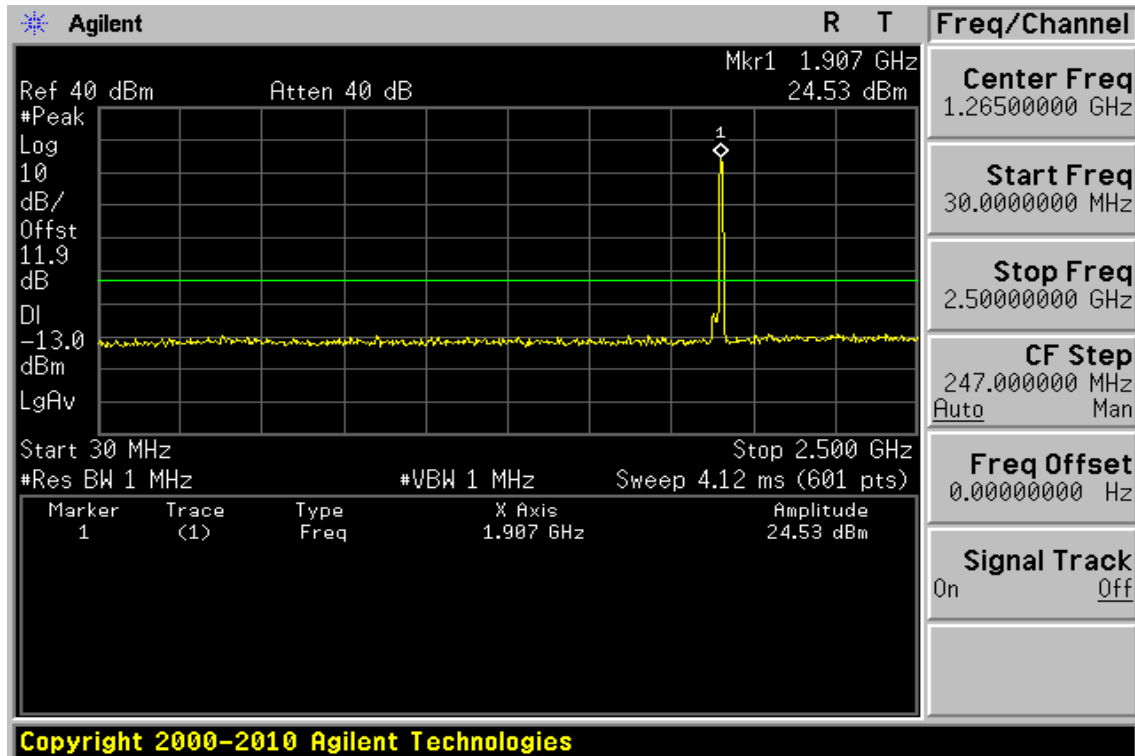


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Figure 9-43: Out of Band emission at antenna terminals – HSUPA II Channel Highest



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

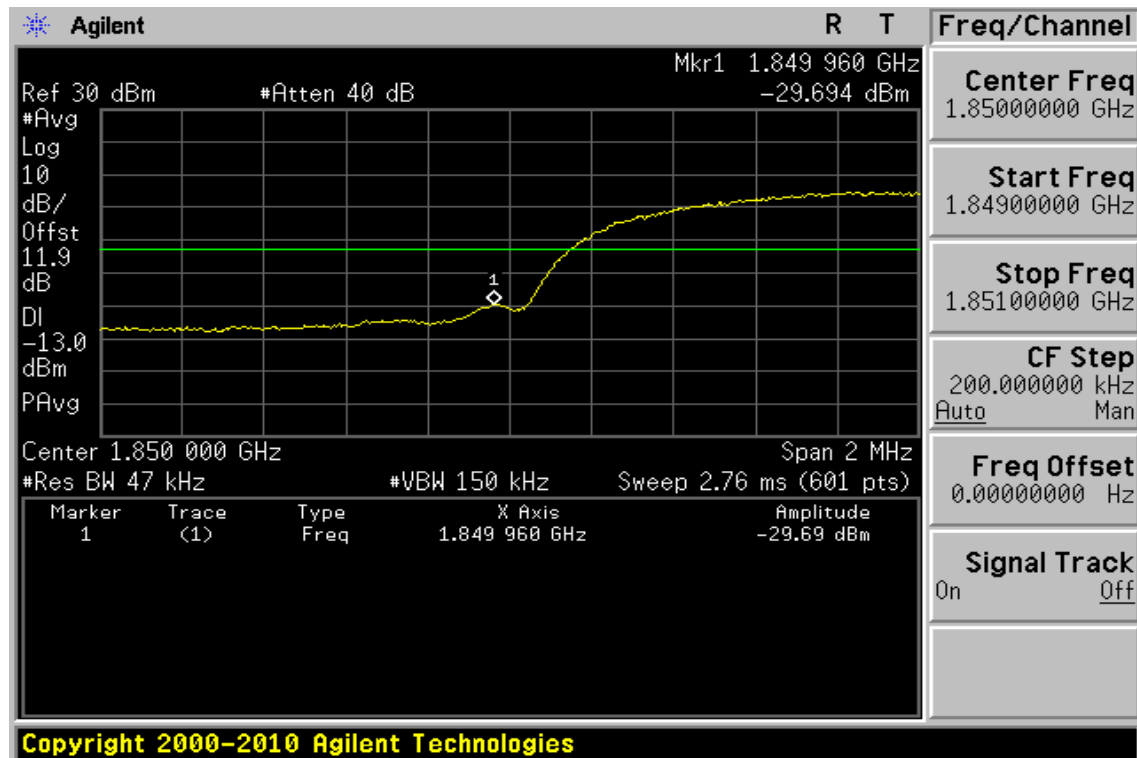
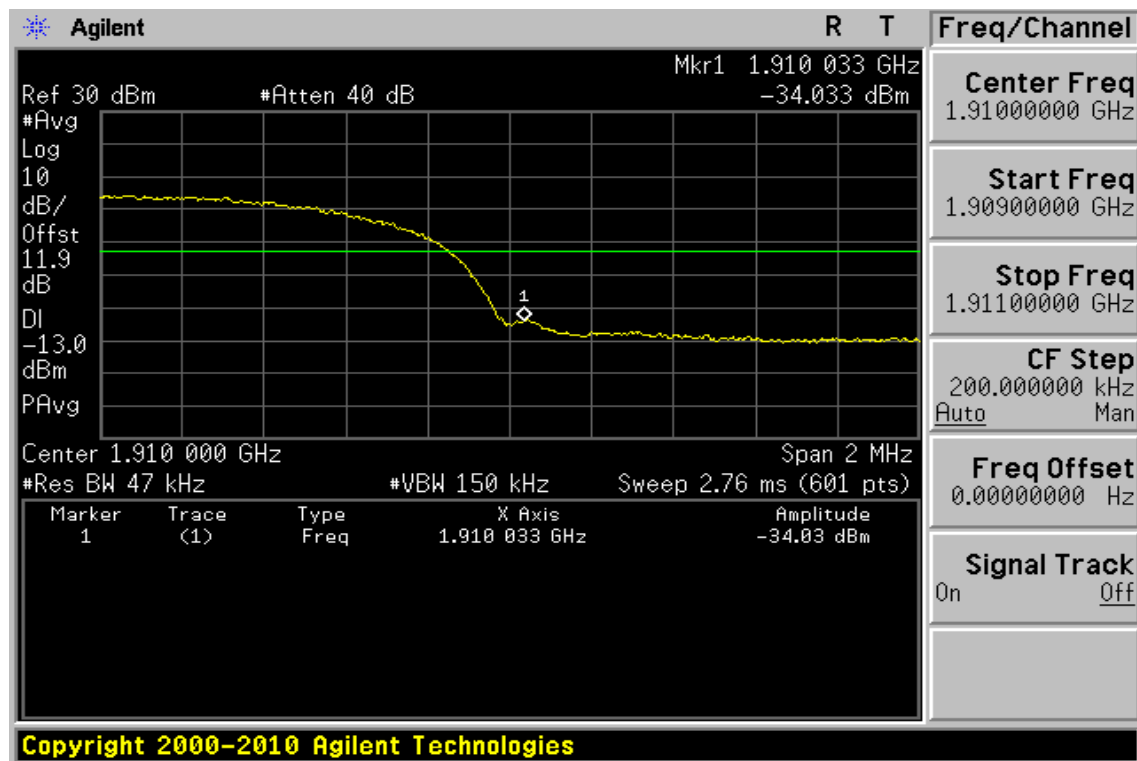


Figure 9-45: Band edge emission at antenna terminals – HSUPA II Channel Highest

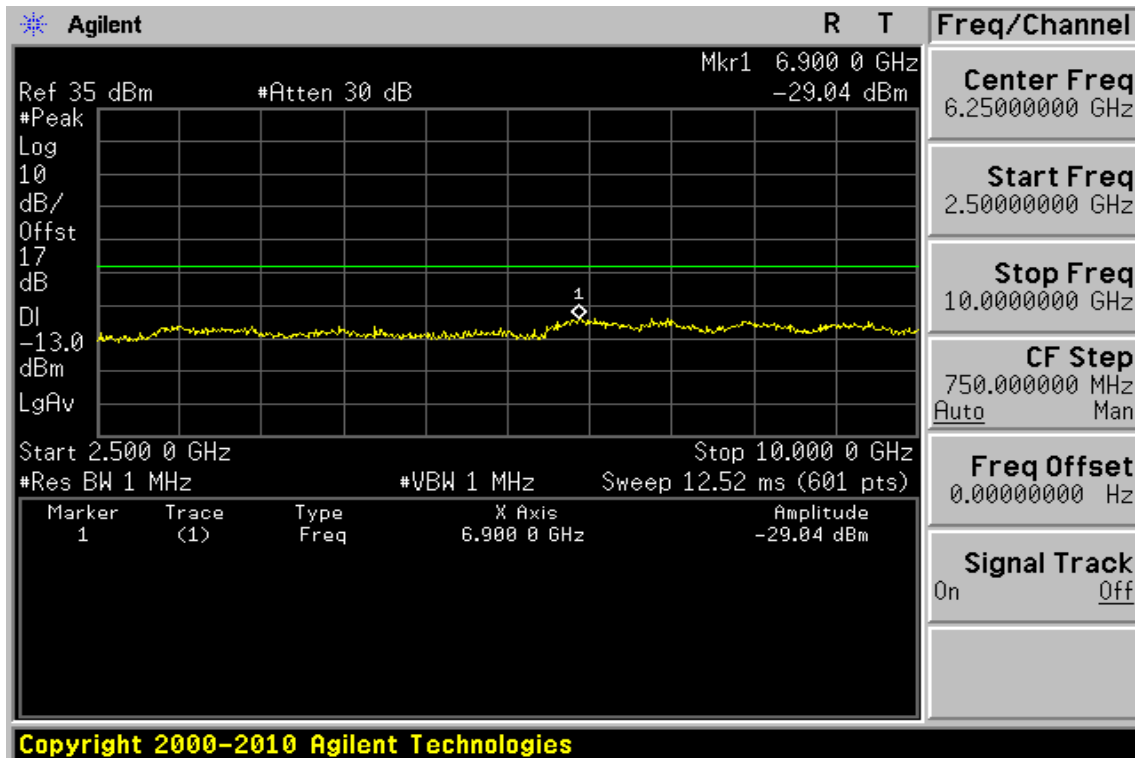
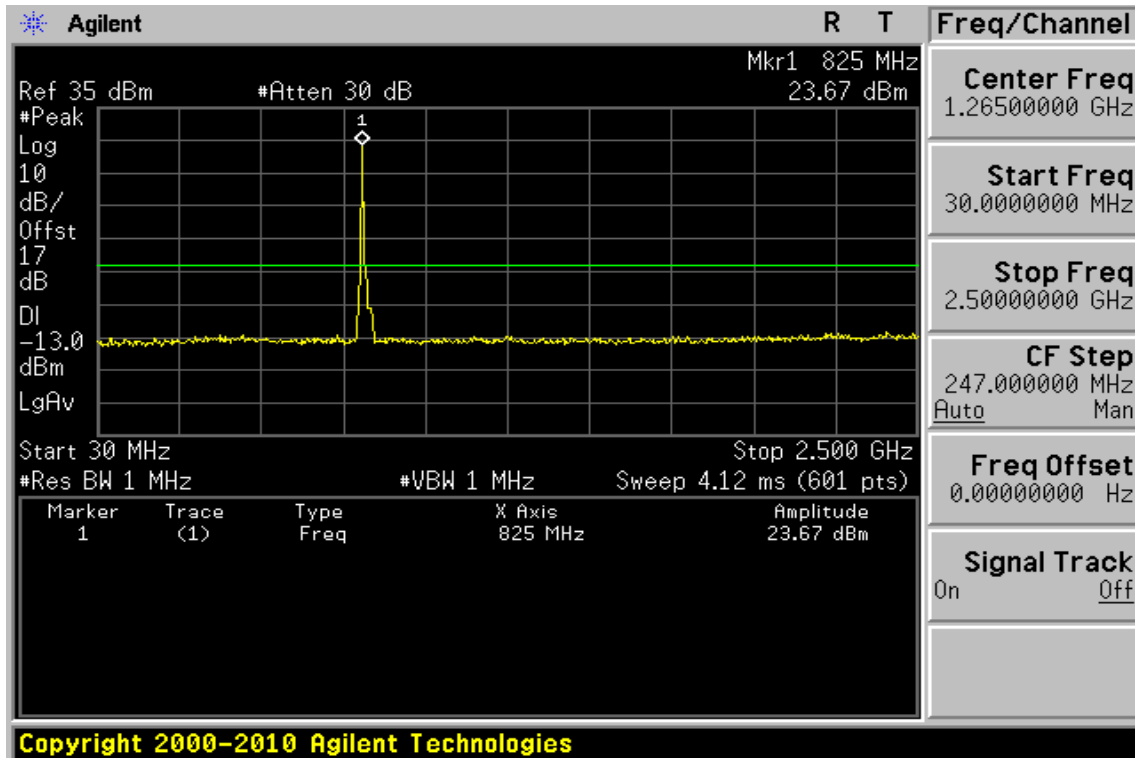


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Figure 9-46: Out of Band emission at antenna terminals – HSUPA V Channel Lowest

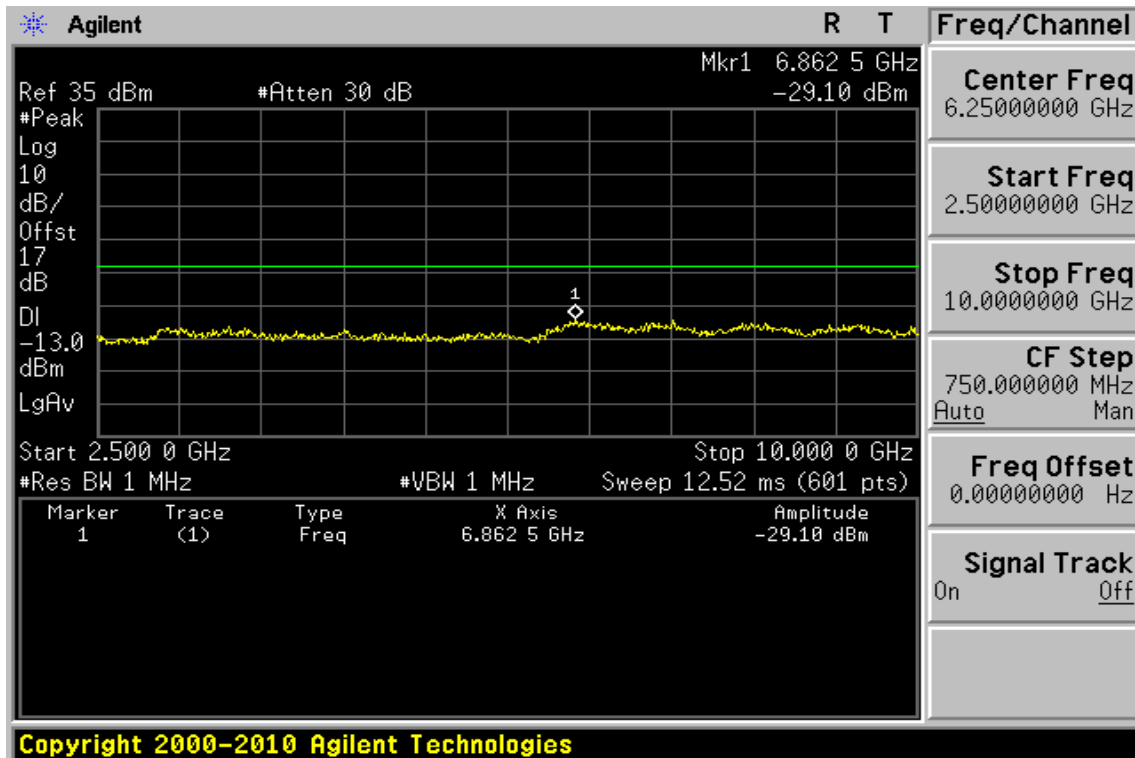
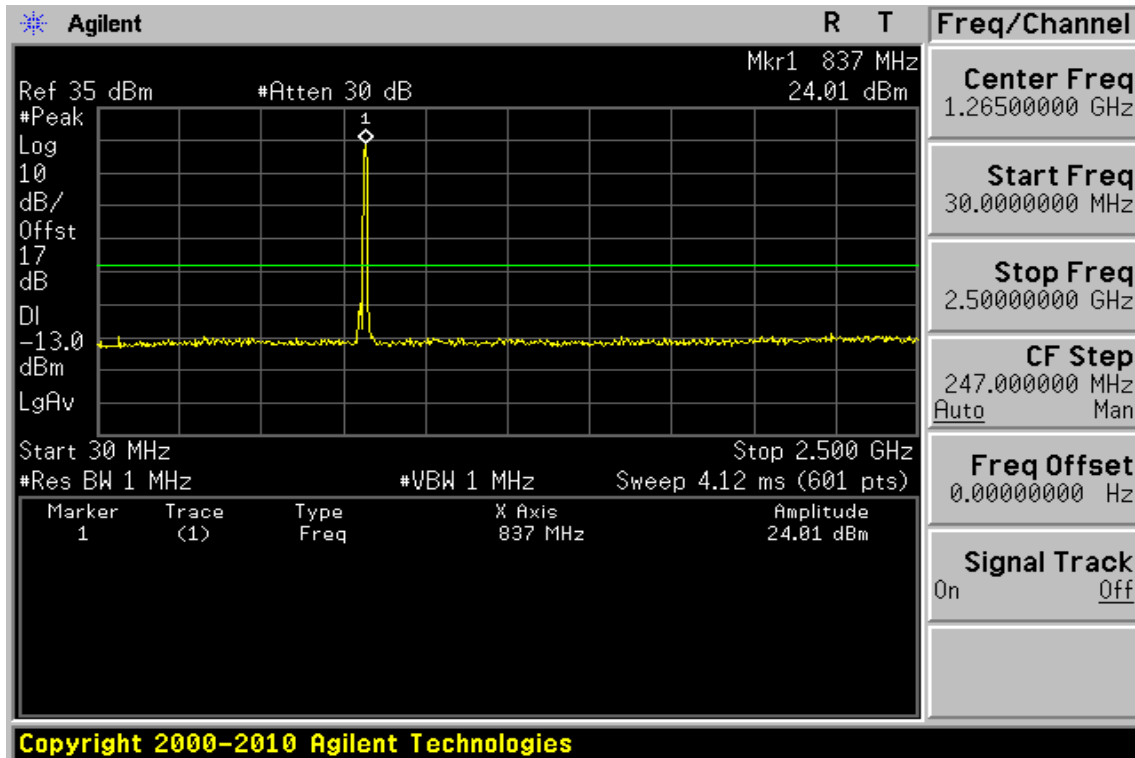


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Figure 9-47: Out of Band emission at antenna terminals – HSUPA V Channel Mid

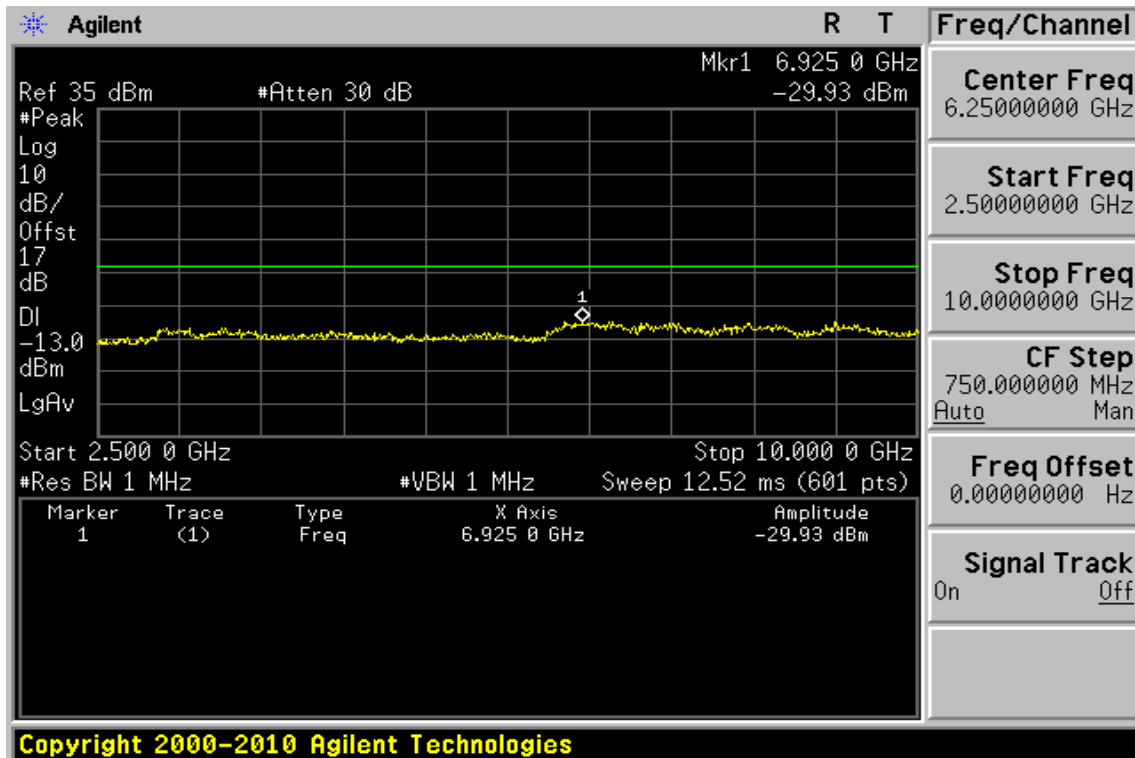
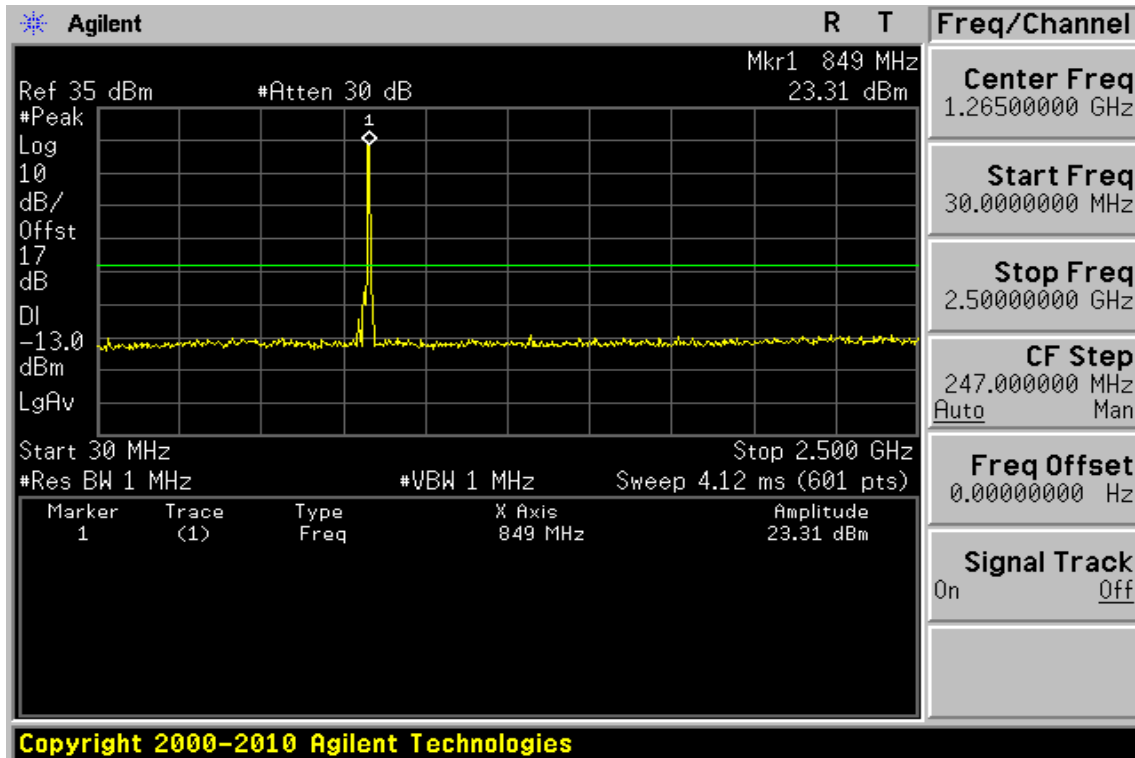


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Figure 9-48: Out of Band emission at antenna terminals – HSUPA V Channel Highest



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

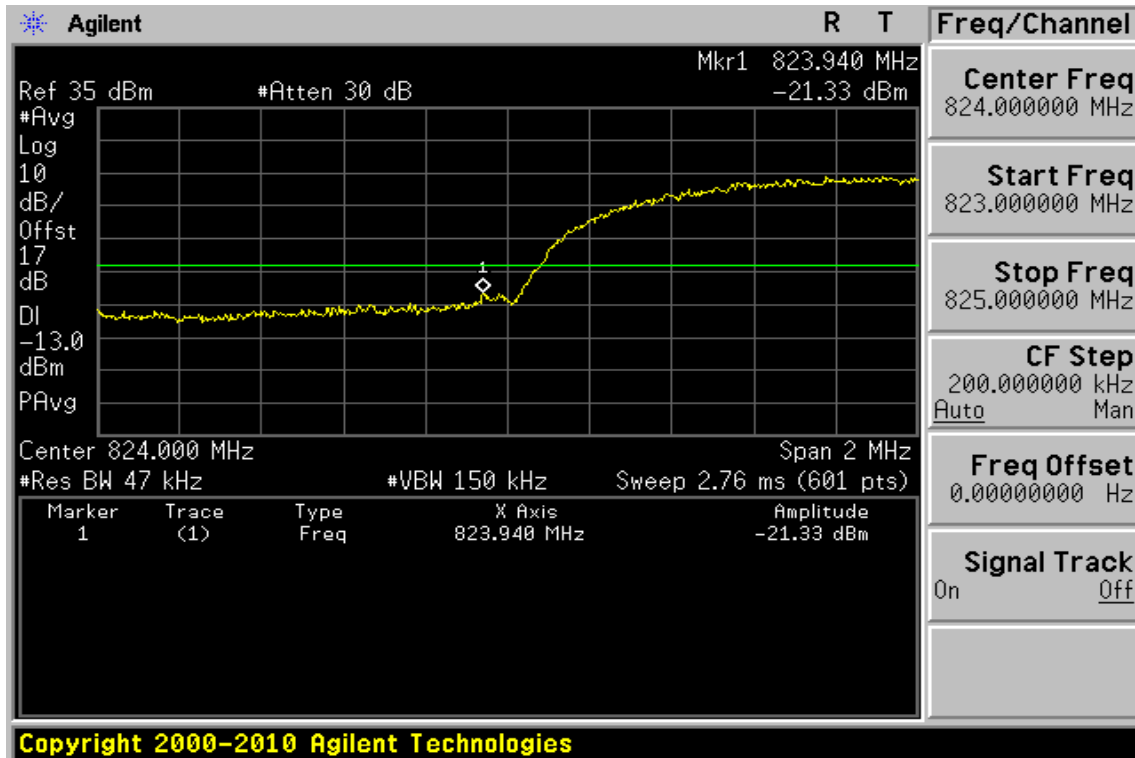
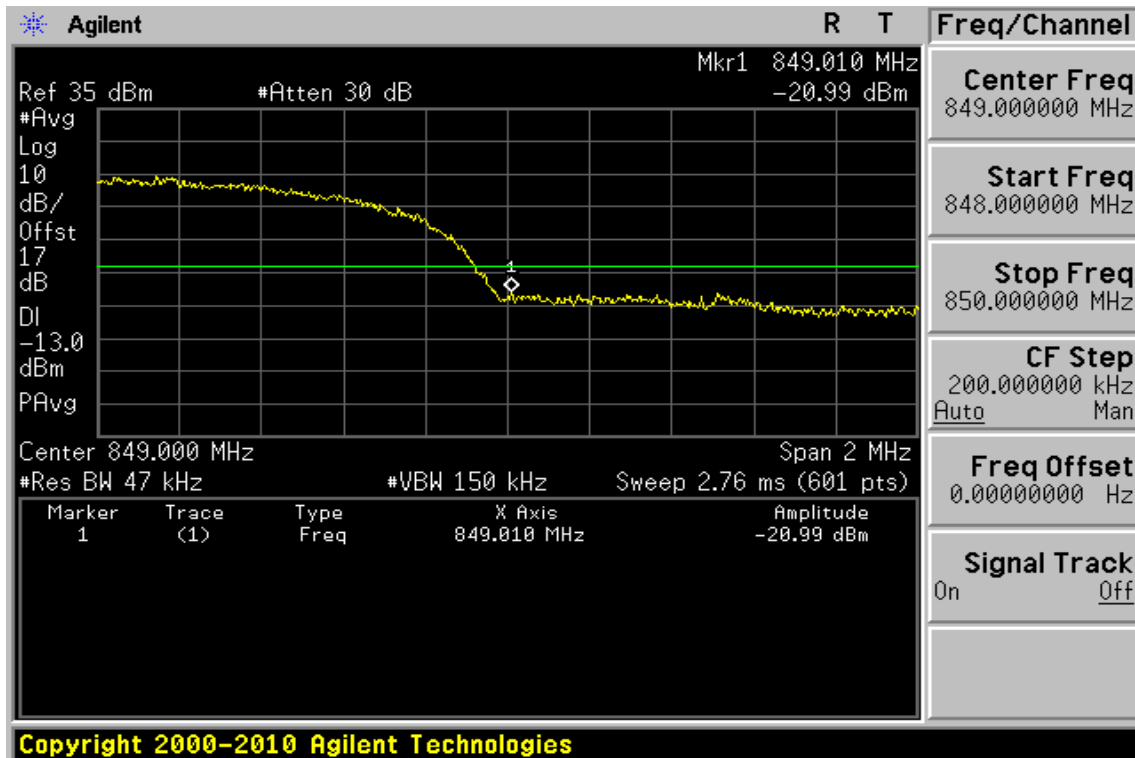


Figure 9-50: Band edge emission at antenna terminals – HSUPA V Channel Highest

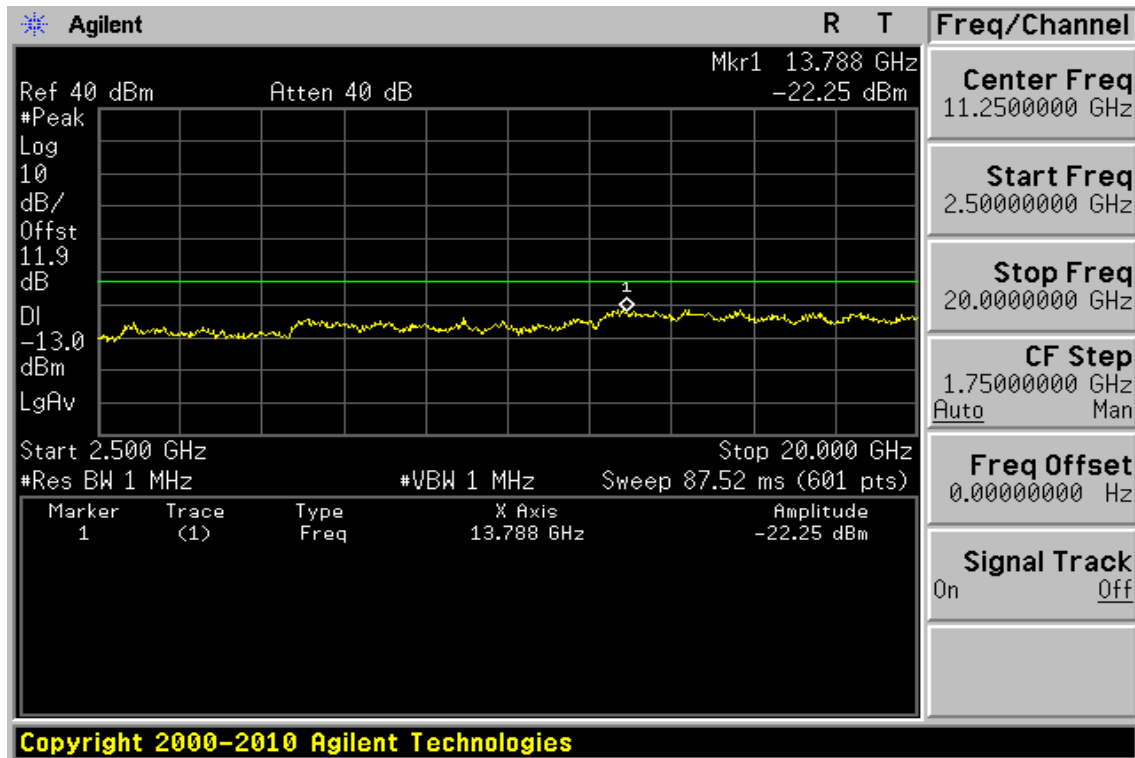
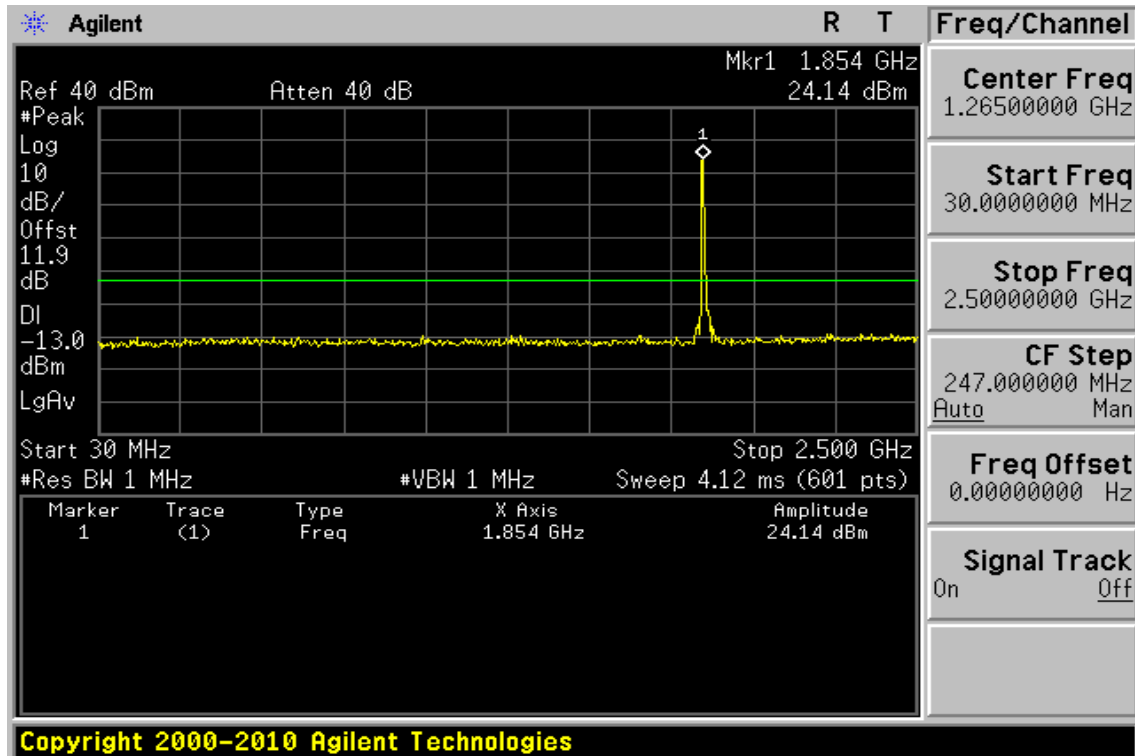


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Figure 9-51: Out of Band emission at antenna terminals – HSDPA II Channel Lowest



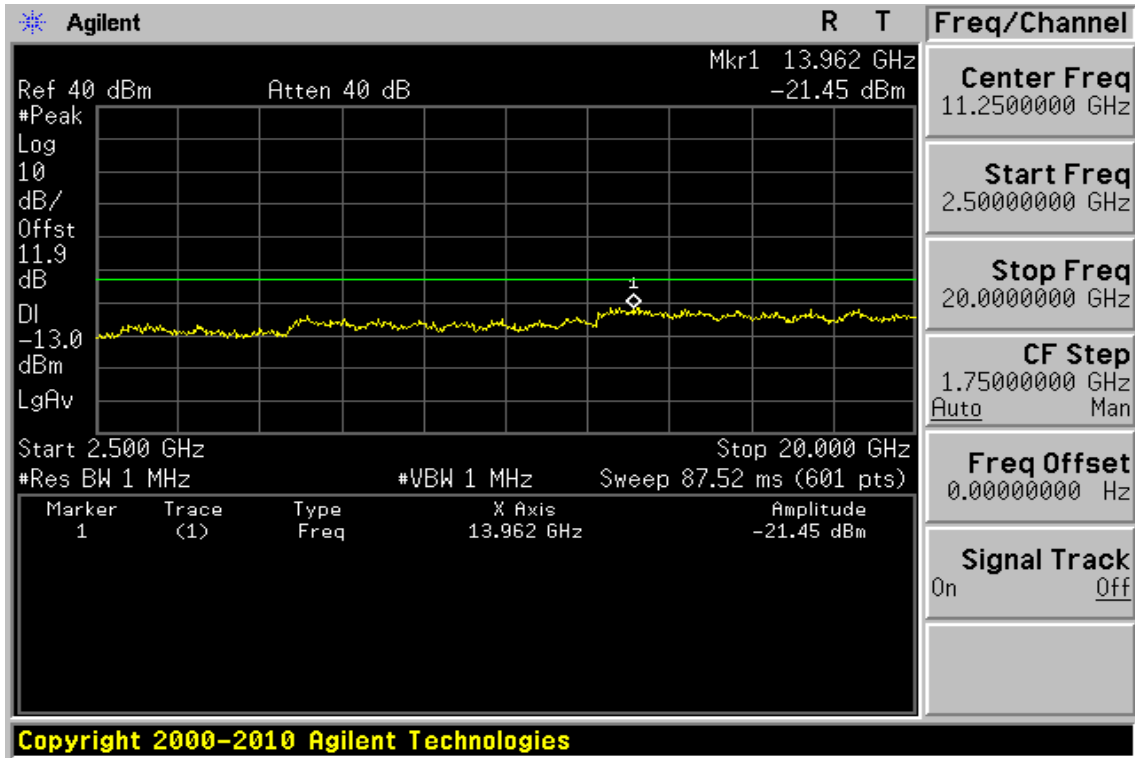
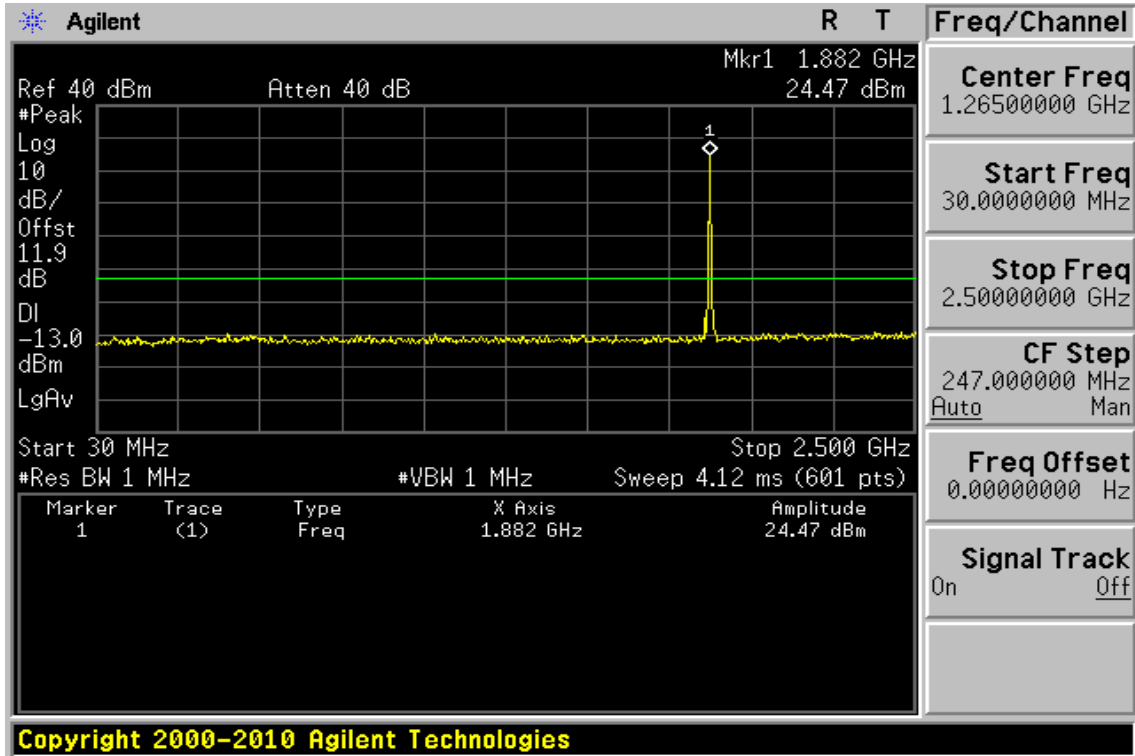
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Figure 9-52: Out of Band emission at antenna terminals – HSDPA II Channel Mid

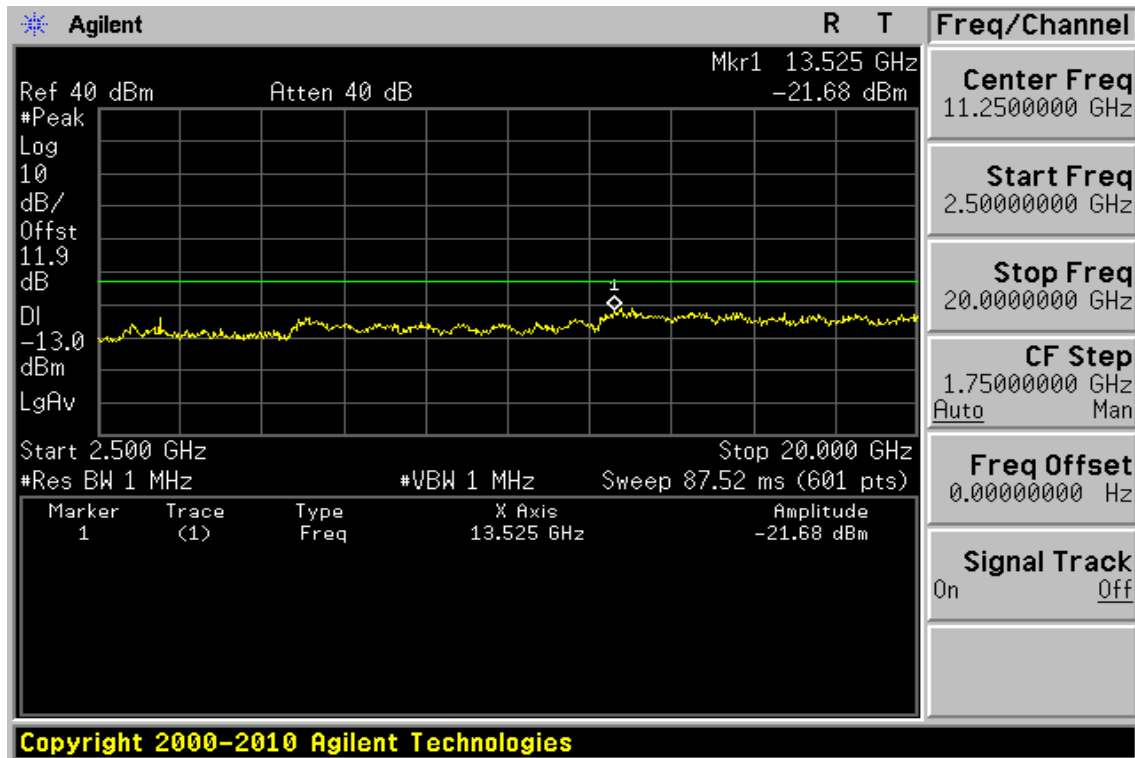
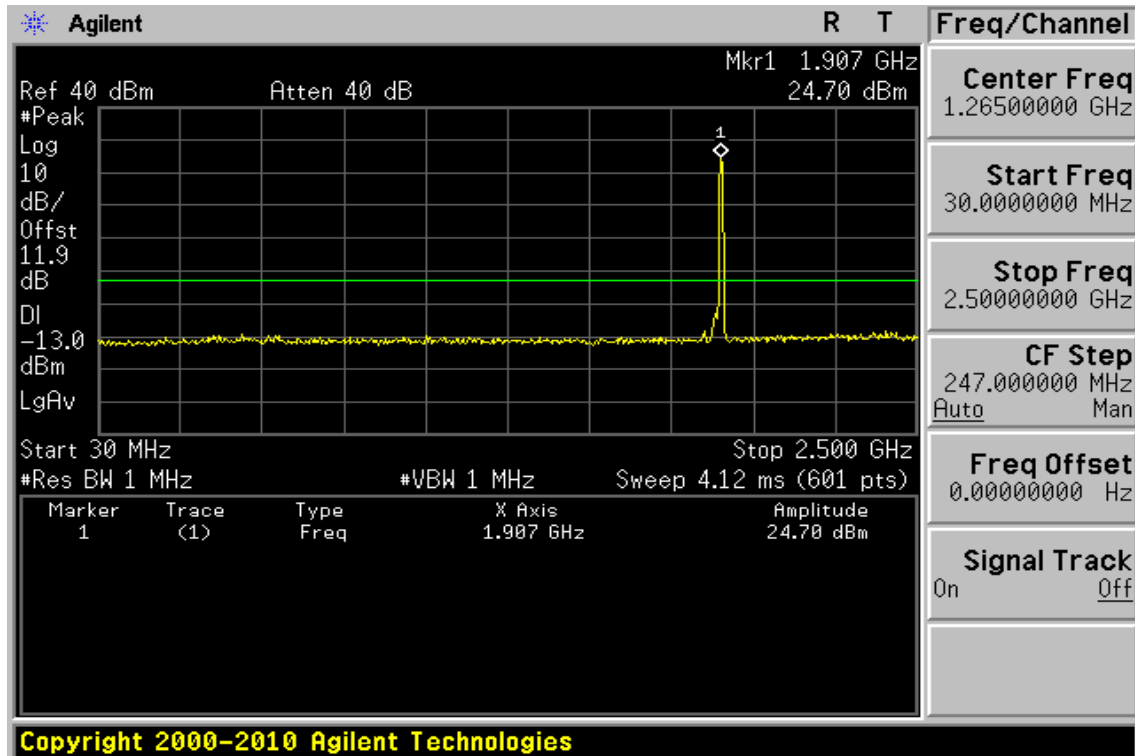


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Figure 9-53: Out of Band emission at antenna terminals – HSDPA II Channel Highest



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

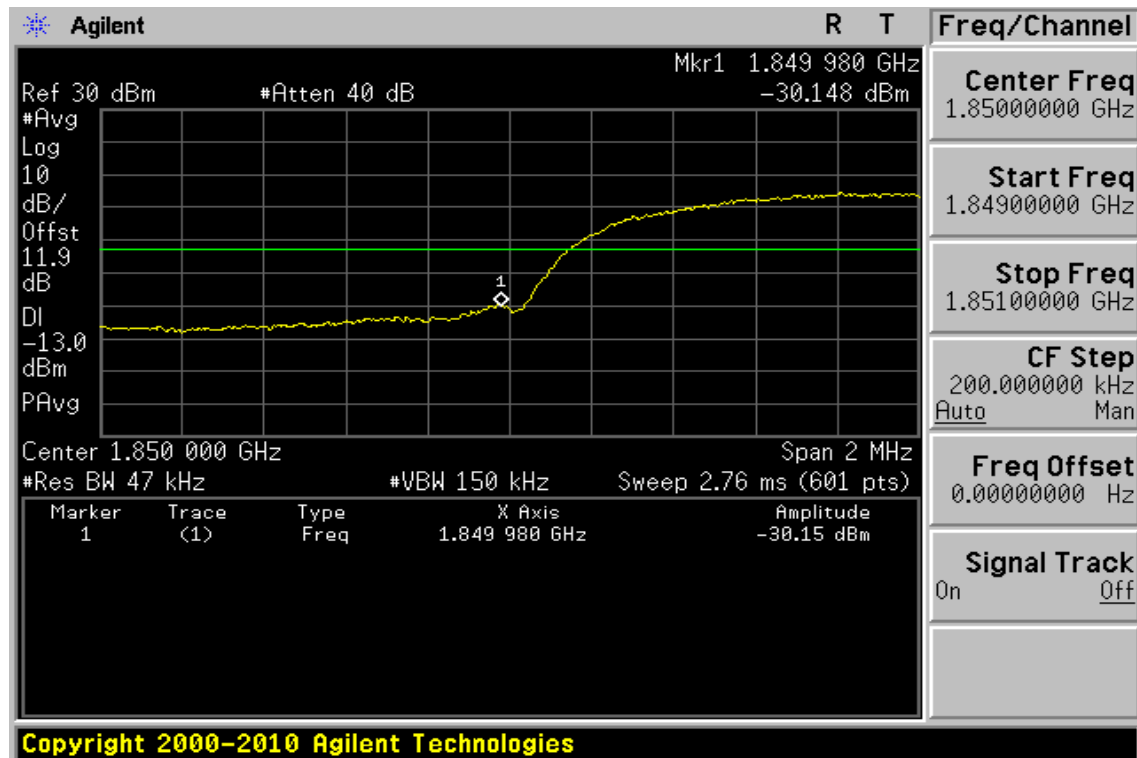
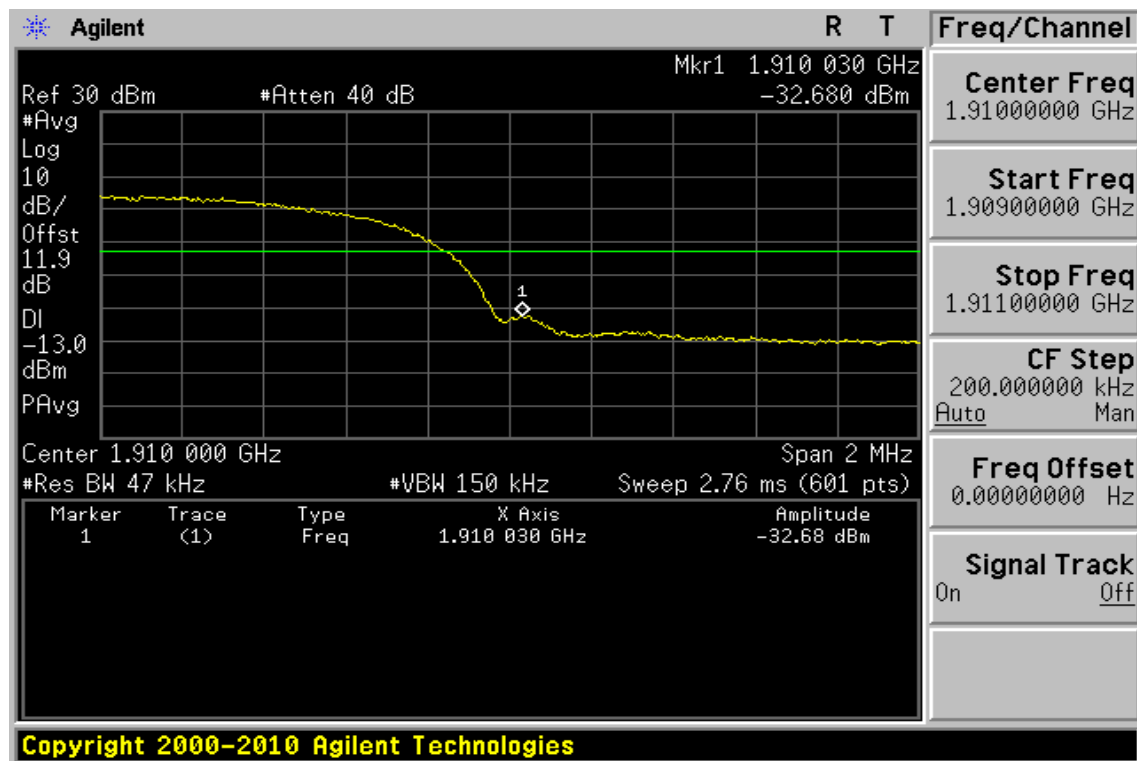


Figure 9-55: Band edge emission at antenna terminals – HSDPA II Channel Highest

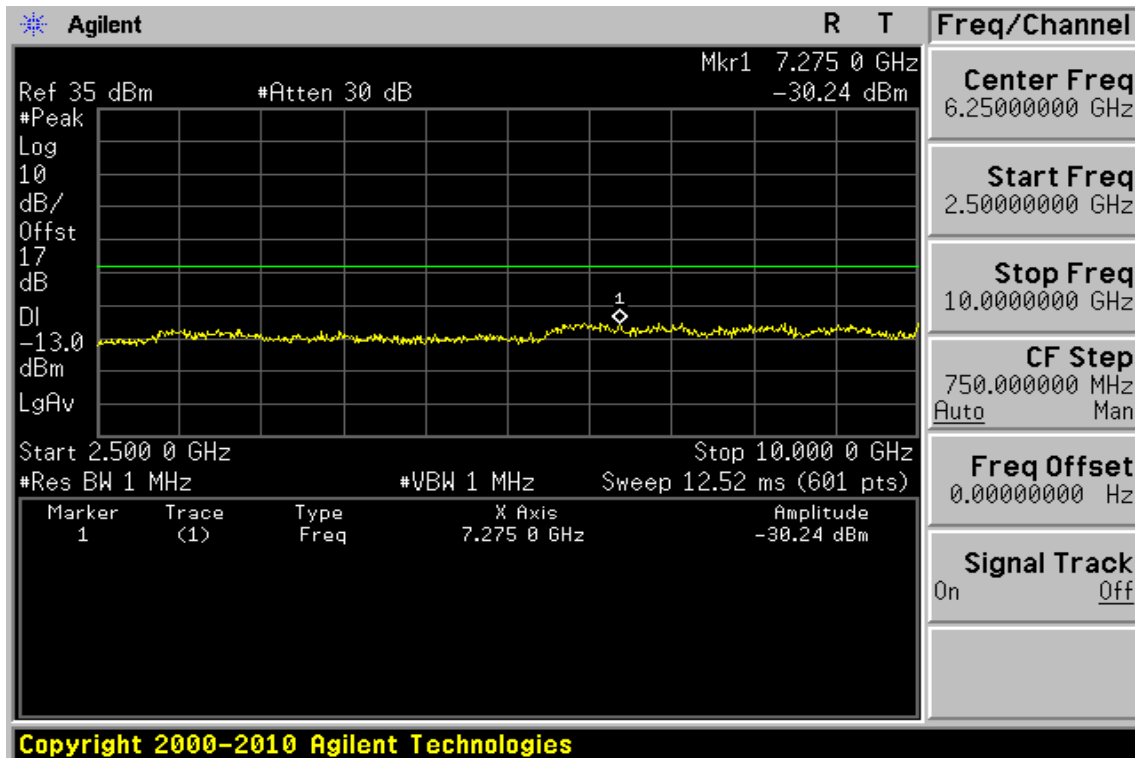
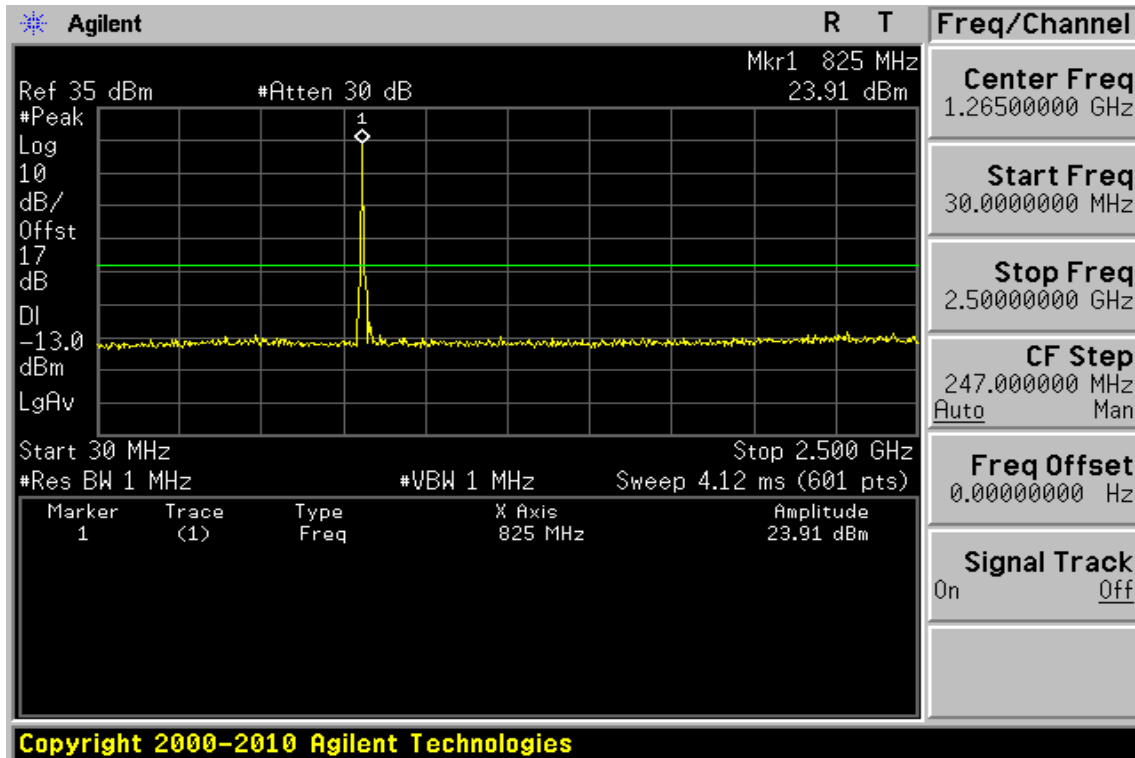


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Figure 9-56: Out of Band emission at antenna terminals – HSDPA V Channel Lowest

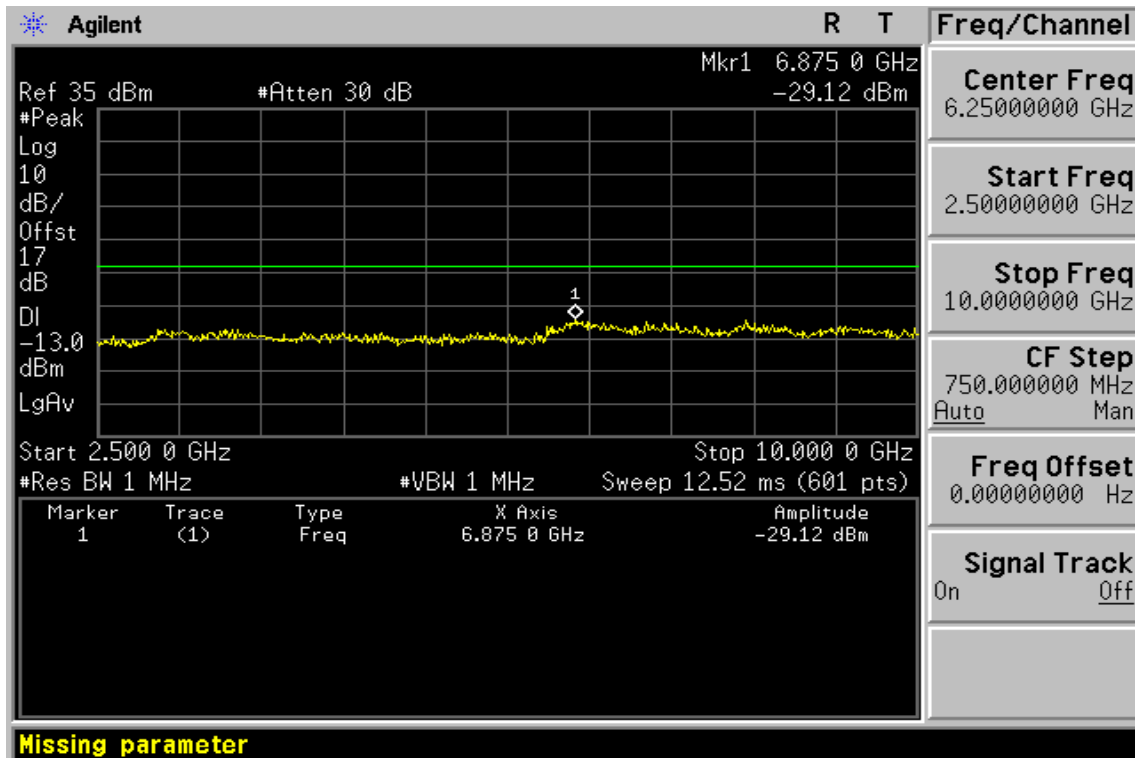
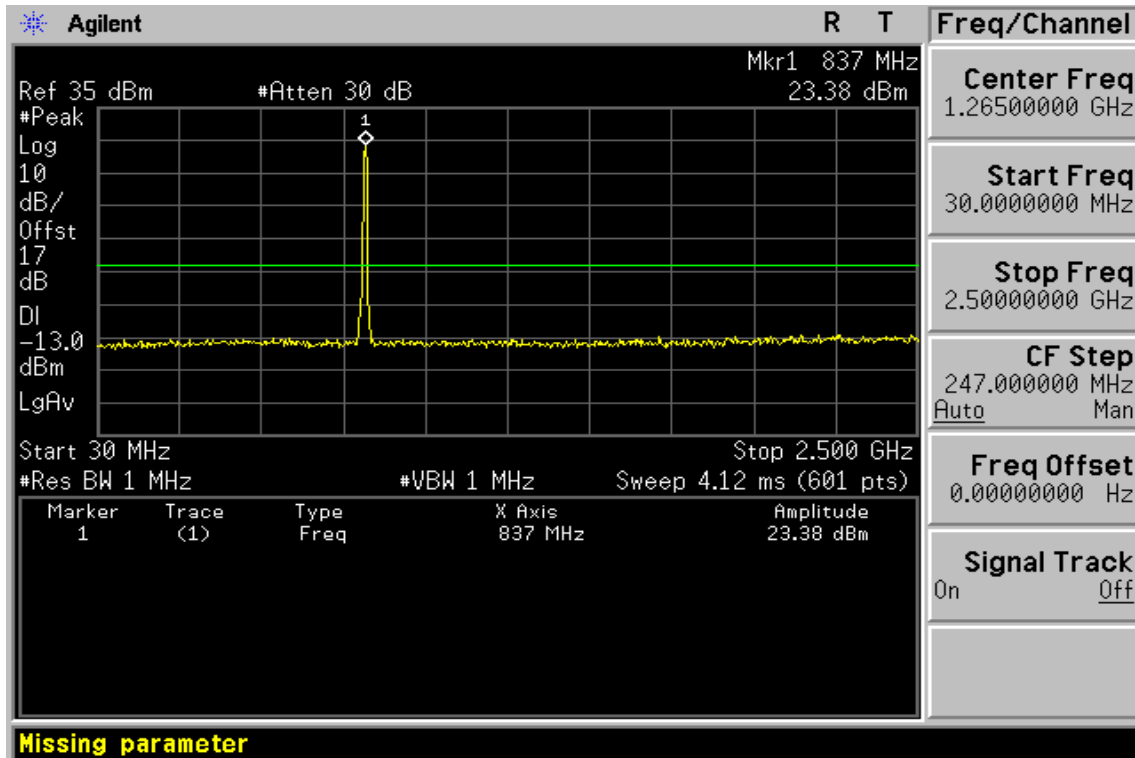


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Figure 9-57: Out of Band emission at antenna terminals – HSDPA V Channel Mid

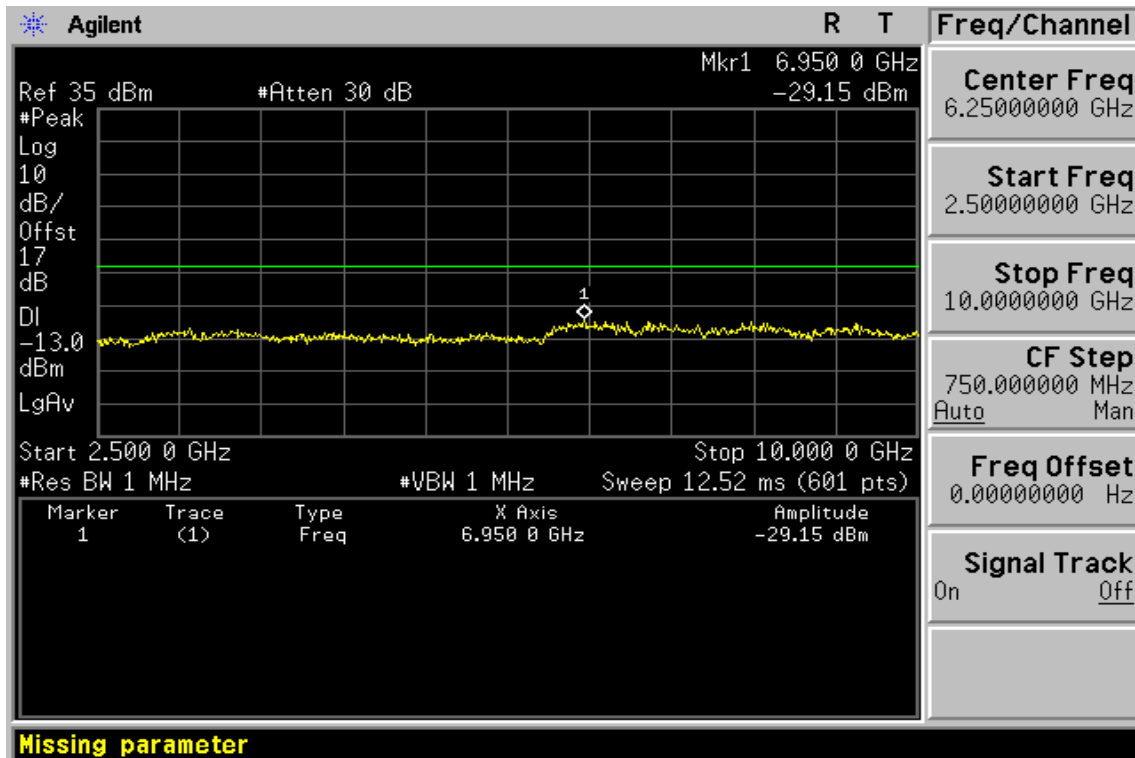
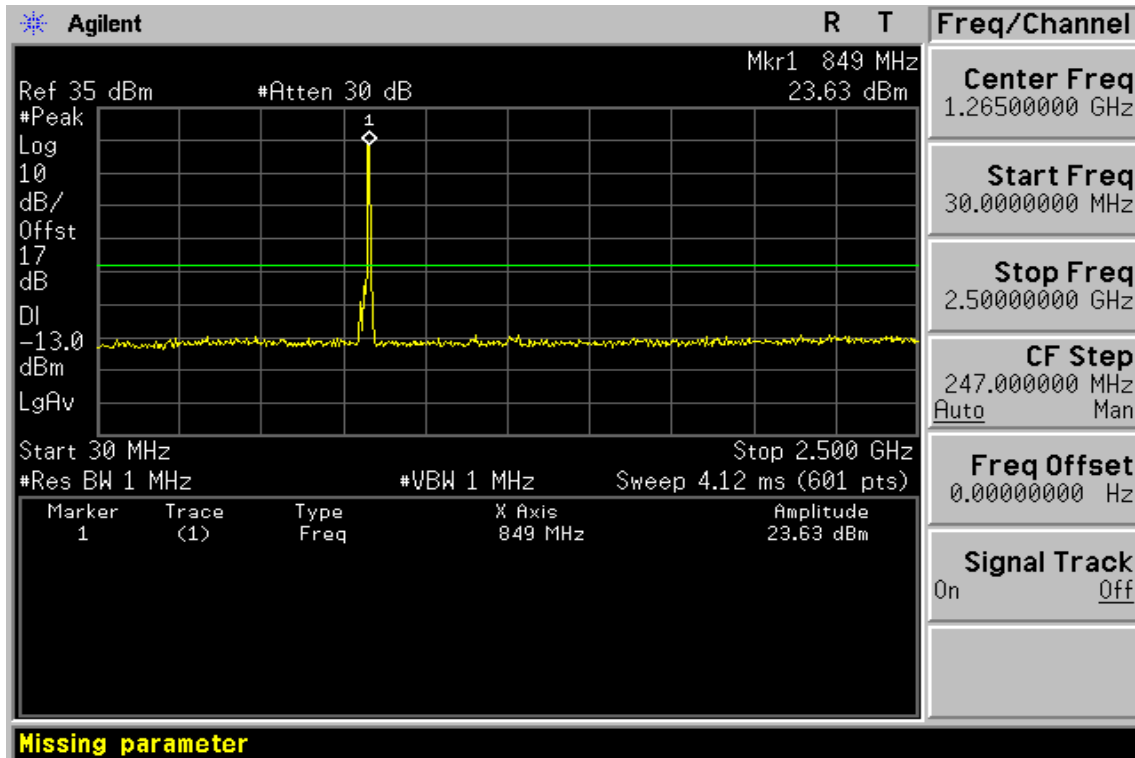


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Figure 9-58: Out of Band emission at antenna terminals – HSDPA V Channel Highest



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Figure 9-59: Bad edge emission at antenna terminals – HSDPA V Channel Lowest

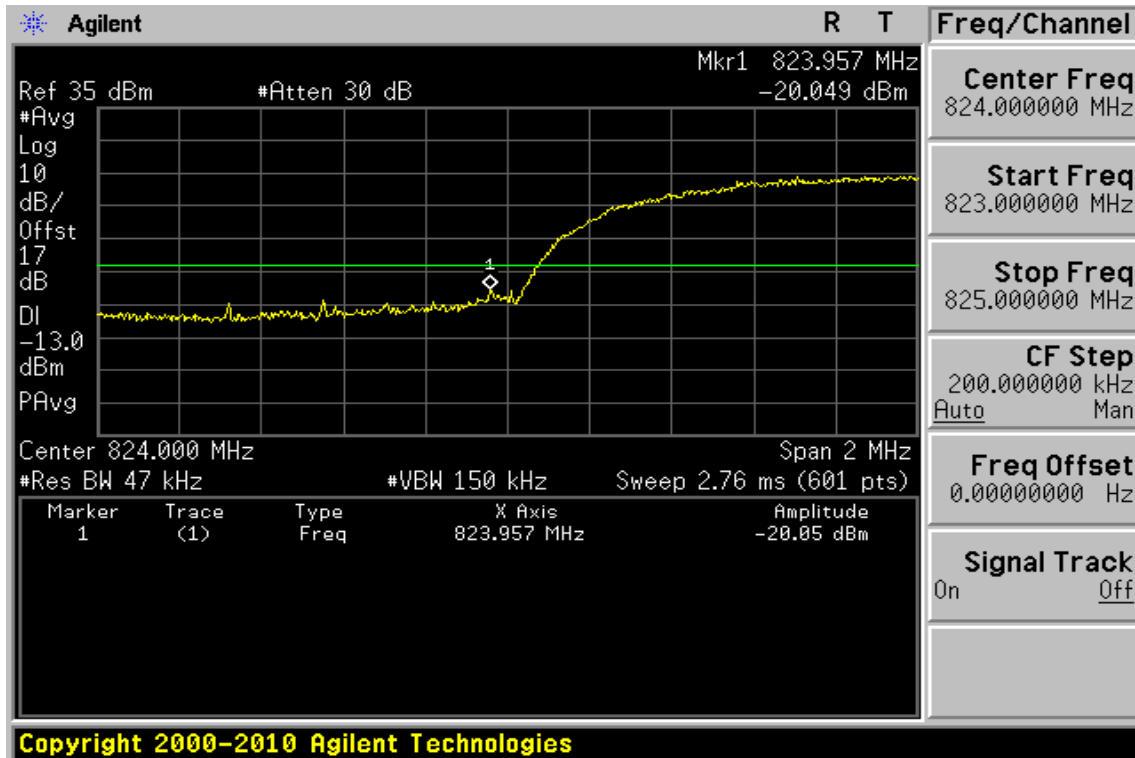


Figure 9-60: Band edge emission at antenna terminals – HSDPA V Channel Highest



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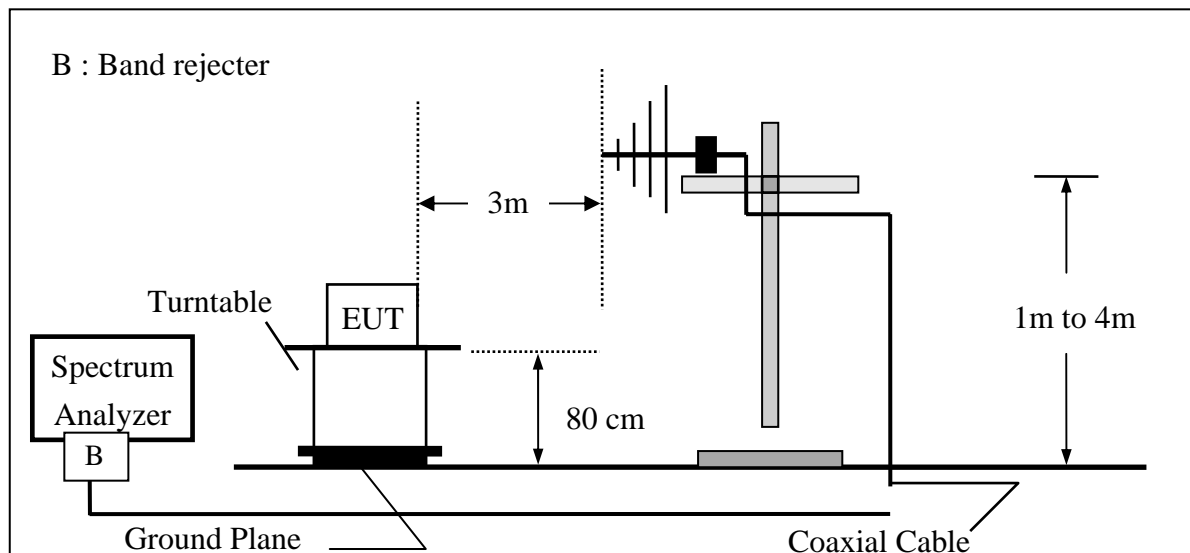
(Note: If the test result using 1% of the emission bandwidth is used, then power integration over 1.0 MHz is required; alternatively, the spectrum analyzer resolution and video bandwidths can be increased to 1.0 MHz for this measurement).

### 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

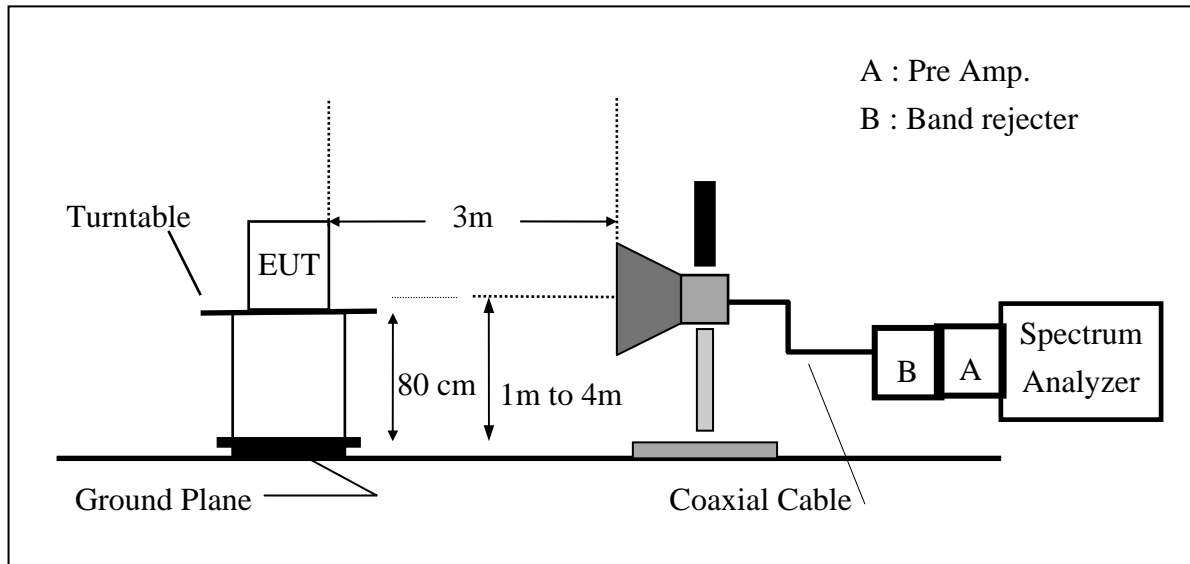


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### Radiated Emission Test Set-UP Frequency Over 1 GHz



### 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.

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**Radiated Spurious Emission Measurement Result (below 1GHz): GSM 850 Mode**

Operation Mode : TX CH Low E2 Mode Test Date: Nov. 17, 2011  
 Fundamental Frequency : 824.20 MHz Test By: Marcus  
 Temperature : 25°C Pol: Ver  
 Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
63.95	52.79	V	-58.71	-0.70	1.11	-60.52	-13.00	-47.52
163.86	40.25	V	-58.28	-7.81	1.62	-67.72	-13.00	-54.72
212.36	42.65	V	-58.66	-7.85	1.78	-68.29	-13.00	-55.29
291.90	40.90	V	-57.62	-7.92	2.14	-67.67	-13.00	-54.67
485.90	42.62	V	-51.46	-7.71	2.76	-61.94	-13.00	-48.94
516.94	39.02	V	-54.56	-7.73	2.85	-65.15	-13.00	-52.15

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark”---“ means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH Low E2 Mode                      Test Date: Nov. 17, 2011  
Fundamental Frequency : 824.20 MHz                      Test By: Marcus  
Temperature : 25°C    Pol: Hor  
Humidity : 65%

Freq. (MHz)	SPA Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
66.86	53.45	H	-58.50	-0.89	1.13	-60.52	-13.00	-47.52
167.74	42.93	H	-56.22	-7.81	1.63	-65.66	-13.00	-52.66
219.15	46.98	H	-53.74	-7.86	1.82	-63.42	-13.00	-50.42
299.66	45.36	H	-52.31	-7.92	2.17	-62.40	-13.00	-49.40
451.95	42.58	H	-51.29	-7.70	2.67	-61.66	-13.00	-48.66
471.35	42.56	H	-51.14	-7.71	2.72	-61.57	-13.00	-48.57

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark”---“ means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH Mid E2 Mode Test Date: Nov. 17, 2011  
Fundamental Frequency : 836.60 MHz Test By: Marcus  
Temperature : 25°C Pol: Ver  
Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
68.80	54.90	V	-56.84	-1.01	1.15	-58.99	-13.00	-45.99
224.00	42.14	V	-58.73	-7.86	1.84	-68.44	-13.00	-55.44
267.65	47.72	V	-51.59	-7.90	2.05	-61.55	-13.00	-48.55
291.90	46.91	V	-51.61	-7.92	2.14	-61.66	-13.00	-48.66
497.54	44.76	V	-49.37	-7.72	2.79	-59.88	-13.00	-46.88
553.80	39.45	V	-52.82	-7.76	2.97	-63.55	-13.00	-50.55

Remark:

- 1 The emission behaviors belongs to narrowband spurious emission.
- 2 Remark”---“ means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode	: TX CH Mid E2 Mode	Test Date:	Nov. 17, 2011
Fundamental Frequency	: 836.60 MHz	Test By:	Marcus
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
66.86	56.13	H	-55.82	-0.89	1.13	-57.84	-13.00	-44.84
219.15	42.51	H	-58.21	-7.86	1.82	-67.89	-13.00	-54.89
280.26	42.06	H	-56.22	-7.91	2.10	-66.22	-13.00	-53.22
309.36	41.62	H	-55.95	-7.87	2.21	-66.03	-13.00	-53.03
458.74	39.34	H	-54.47	-7.70	2.68	-64.86	-13.00	-51.86
519.85	37.21	H	-55.55	-7.74	2.86	-66.15	-13.00	-53.15

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode	: TX CH High E2 Mode	Test Date:	Nov. 17, 2011
Fundamental Frequency	: 848.80 MHz	Test By:	Marcus
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
66.86	56.80	V	-54.84	-0.89	1.13	-56.86	-13.00	-43.86
228.85	44.12	V	-56.57	-7.87	1.87	-66.31	-13.00	-53.31
267.65	49.37	V	-49.94	-7.90	2.05	-59.90	-13.00	-46.90
299.66	44.38	V	-53.88	-7.92	2.17	-63.97	-13.00	-50.97
478.14	42.39	V	-51.66	-7.71	2.74	-62.11	-13.00	-49.11
548.95	37.63	V	-54.89	-7.76	2.96	-65.61	-13.00	-52.61

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode	: TX CH High E2 Mode	Test Date:	Nov. 17, 2011
Fundamental Frequency	: 848.80 MHz	Test By:	Marcus
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
66.86	54.26	H	-57.69	-0.89	1.13	-59.71	-13.00	-46.71
204.60	45.30	H	-56.13	-7.84	1.74	-65.71	-13.00	-52.71
219.15	42.40	H	-58.32	-7.86	1.82	-68.00	-13.00	-55.00
282.20	42.31	H	-55.91	-7.91	2.11	-65.92	-13.00	-52.92
303.54	41.83	H	-55.80	-7.90	2.18	-65.88	-13.00	-52.88
449.04	37.03	H	-56.91	-7.70	2.66	-67.27	-13.00	-54.27

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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**Radiated Spurious Emission Measurement Result (below 1GHz): GSM 1900 Mode**

Operation Mode : TX CH Low E2 Mode Test Date: Nov. 17, 2011  
Fundamental Frequency : 1850.20MHz Test By: Marcus  
Temperature : 25°C Pol: Ver  
Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
66.86	52.44	V	-59.20	-0.89	1.13	-61.22	-13.00	-48.22
196.84	43.23	V	-58.27	-7.84	1.70	-67.81	-13.00	-54.81
253.10	42.23	V	-57.56	-7.89	2.00	-67.45	-13.00	-54.45
291.90	41.88	V	-56.64	-7.92	2.14	-66.69	-13.00	-53.69
451.95	39.05	V	-54.89	-7.70	2.67	-65.25	-13.00	-52.25
500.45	40.05	V	-54.08	-7.72	2.80	-64.60	-13.00	-51.60

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark”---“ means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode	: TX CH Low E2 Mode	Test Date:	Nov. 17, 2011
Fundamental Frequency	: 1850.20MHz	Test By:	Marcus
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
78.50	51.90	H	-60.49	-2.25	1.21	-63.95	-13.00	-50.95
163.86	39.99	H	-58.86	-7.81	1.62	-68.29	-13.00	-55.29
241.46	40.79	H	-58.85	-7.88	1.94	-68.67	-13.00	-55.67
272.50	45.86	H	-52.66	-7.90	2.07	-62.63	-13.00	-49.63
289.96	46.58	H	-51.39	-7.91	2.13	-61.44	-13.00	-48.44
485.90	36.11	H	-57.46	-7.71	2.76	-67.94	-13.00	-54.94

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark”---“ means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH Mid E2 Mode  
Fundamental Frequency : 1880MHz  
Temperature : 25°C  
Humidity : 65%

Test Date: Nov. 17, 2011  
Test By: Marcus  
Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
66.86	59.05	V	-52.59	-0.89	1.13	-54.61	-13.00	-41.61
158.04	40.75	V	-57.26	-7.81	1.61	-66.68	-13.00	-53.68
233.70	40.79	V	-59.72	-7.87	1.90	-69.49	-13.00	-56.49
291.90	45.05	V	-53.47	-7.92	2.14	-63.52	-13.00	-50.52
487.84	45.88	V	-48.21	-7.72	2.77	-58.69	-13.00	-45.69
529.55	37.87	V	-55.29	-7.74	2.89	-65.93	-13.00	-52.93

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark”---“ means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode	: TX CH Mid E2 Mode	Test Date:	Nov. 17, 2011
Fundamental Frequency	: 1880MHz	Test By:	Marcus
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
80.44	54.40	H	-49.20	-7.75	0.04	-56.99	-13.00	-43.99
170.65	45.30	H	-54.07	-7.82	1.64	-63.53	-13.00	-50.53
222.06	43.53	H	-57.05	-7.86	1.83	-66.74	-13.00	-53.74
301.60	41.64	H	-56.01	-7.91	2.18	-66.09	-13.00	-53.09
413.15	41.32	H	-54.44	-7.67	2.55	-64.66	-13.00	-51.66
510.15	38.33	H	-54.77	-7.73	2.83	-65.33	-13.00	-52.33

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark”---“ means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode	: TX CH High E2 Mode	Test Date:	Nov. 17, 2011
Fundamental Frequency	: 1909.8 MHz	Test By:	Marcus
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
90.14	52.50	V	-50.68	-7.75	1.27	-59.70	-13.00	-46.70
167.74	48.02	V	-50.86	-7.81	1.63	-60.31	-13.00	-47.31
248.25	48.83	V	-51.13	-7.89	1.98	-60.99	-13.00	-47.99
264.74	43.03	V	-56.38	-7.90	2.04	-66.32	-13.00	-53.32
282.20	40.44	V	-58.39	-7.91	2.11	-68.41	-13.00	-55.41
429.64	36.41	V	-58.16	-7.68	2.60	-68.44	-13.00	-55.44

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark”---“ means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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Operation Mode	: TX CH High E2 Mode	Test Date:	Nov. 17, 2011
Fundamental Frequency	: 1909.8 MHz	Test By:	Marcus
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
80.44	52.51	H	-51.09	-7.75	0.04	-58.88	-13.00	-45.88
216.24	45.39	H	-55.47	-7.86	1.80	-65.13	-13.00	-52.13
287.05	44.35	H	-53.71	-7.91	2.12	-63.75	-13.00	-50.75
367.56	38.26	H	-58.67	-7.65	2.41	-68.73	-13.00	-55.73
437.40	38.65	H	-55.88	-7.69	2.62	-66.19	-13.00	-53.19
478.14	38.75	H	-54.89	-7.71	2.74	-65.34	-13.00	-52.34

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark”---“ means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

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**Radiated Spurious Emission Measurement Result (below 1GHz): HSDPA II Mode**

Operation Mode : TX CH Low H Mode Test Date: Nov. 17, 2011  
 Fundamental Frequency : 1852.4MHz Test By: Marcus  
 Temperature : 27°C Pol: Ver  
 Humidity : 66%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
68.80	53.66	V	-58.08	-1.01	1.15	-60.23	-13.00	-47.23
206.54	44.44	V	-57.09	-7.85	1.75	-66.69	-13.00	-53.69
260.86	46.35	V	-53.18	-7.90	2.03	-63.11	-13.00	-50.11
289.96	39.71	V	-58.87	-7.91	2.13	-68.92	-13.00	-55.92
468.44	38.55	V	-55.46	-7.71	2.71	-65.88	-13.00	-52.88
490.75	40.45	V	-53.65	-7.72	2.77	-64.14	-13.00	-51.14

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark“---”means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH Low H Mode  
Fundamental Frequency : 1852.4MHz  
Temperature : 27°C  
Humidity : 66%

Test Date: Nov. 17, 2011  
Test By: Marcus  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
86.26	50.37	H	-53.31	-7.75	0.79	-61.85	-13.00	-48.85
134.76	42.07	H	-57.29	-7.79	1.52	-66.60	-13.00	-53.60
209.45	45.62	H	-55.57	-7.85	1.76	-65.18	-13.00	-52.18
270.56	42.57	H	-56.01	-7.90	2.06	-65.97	-13.00	-52.97
289.96	40.18	H	-57.79	-7.91	2.13	-67.84	-13.00	-54.84
461.65	42.75	H	-51.04	-7.70	2.69	-61.43	-13.00	-48.43

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark“---”means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH Mid H Mode  
Fundamental Frequency : 1880MHz  
Temperature : 27°C  
Humidity : 66%

Test Date: Nov. 17, 2011  
Test By: Marcus  
Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
70.74	57.61	V	-54.15	-1.18	1.16	-56.50	-13.00	-43.50
175.50	40.55	V	-59.03	-7.82	1.65	-68.50	-13.00	-55.50
270.56	43.67	V	-55.55	-7.90	2.06	-65.51	-13.00	-52.51
352.04	41.83	V	-55.71	-7.64	2.37	-65.72	-13.00	-52.72
451.95	41.97	V	-51.97	-7.70	2.67	-62.33	-13.00	-49.33
515.00	40.76	V	-52.89	-7.73	2.85	-63.47	-13.00	-50.47

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark“---”means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH Mid H Mode  
Fundamental Frequency : 1880MHz  
Temperature : 27°C  
Humidity : 66%

Test Date: Nov. 17, 2011  
Test By: Marcus  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
66.86	54.07	H	-57.88	-0.89	1.13	-59.90	-13.00	-46.90
170.65	44.96	H	-54.41	-7.82	1.64	-63.87	-13.00	-50.87
222.06	40.70	H	-59.88	-7.86	1.83	-69.57	-13.00	-56.57
309.36	40.56	H	-57.01	-7.87	2.21	-67.09	-13.00	-54.09
388.90	37.06	H	-59.54	-7.66	2.48	-69.67	-13.00	-56.67
466.50	39.56	H	-54.18	-7.71	2.71	-64.60	-13.00	-51.60

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark“---”means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH High H Mode  
Fundamental Frequency : 1907.6MHz  
Temperature : 27°C  
Humidity : 66%

Test Date: Nov. 17, 2011  
Test By: Marcus  
Pol: Ver

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
51.34	47.89	V	-59.69	-0.58	1.12	-61.39	-13.00	-48.39
167.74	44.65	V	-54.23	-7.81	1.63	-63.68	-13.00	-50.68
228.85	46.96	V	-53.73	-7.87	1.87	-63.47	-13.00	-50.47
299.66	36.15	V	-62.11	-7.92	2.17	-72.20	-13.00	-59.20
398.60	41.23	V	-54.33	-7.66	2.51	-64.49	-13.00	-51.49
461.65	38.12	V	-55.86	-7.70	2.69	-66.26	-13.00	-53.26

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark“---”means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Operation Mode : TX CH High H Mode  
Fundamental Frequency : 1907.6MHz  
Temperature : 27°C  
Humidity : 66%

Test Date: Nov. 17, 2011  
Test By: Marcus  
Pol: Hor

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
66.86	51.86	H	-60.09	-0.89	1.13	-62.11	-13.00	-49.11
177.44	43.24	H	-56.66	-7.82	1.66	-66.14	-13.00	-53.14
222.06	39.13	H	-61.45	-7.86	1.83	-71.14	-13.00	-58.14
255.04	40.63	H	-58.43	-7.89	2.01	-68.33	-13.00	-55.33
309.36	38.38	H	-59.19	-7.87	2.21	-69.27	-13.00	-56.27
425.76	35.73	H	-59.39	-7.68	2.59	-69.66	-13.00	-56.66

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark“---”means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4  $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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**Radiated Spurious Emission Measurement Result (below 1GHz): WCDMA V Mode**

Operation Band :WCDMA B5 Test Date :2011-11-24  
ARFCN :4132 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :826.4 Engineer :Marcus  
Operation Mode :TX LOW  
EUT Pol. :E1 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
33.88	S	-76.84	-60.44	-13.95	-2.47	-13.00	-63.84
160.95	S	-74.47	-71.13	-0.43	-2.93	-13.00	-61.47
222.06	S	-72.86	-74.53	4.81	-3.17	-13.00	-59.86
321.97	S	-81.75	-83.09	4.63	-3.39	-13.00	-68.75
545.07	S	-80.48	-81.40	4.59	-3.85	-13.00	-67.48
841.89	S	-76.06	-76.97	4.01	-4.24	38.40	-114.46

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 :WCDMA B5 Test Date :2011-11-24  
ARFCN :4132 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :826.4 Engineer :Marcus  
Operation Mode :TX LOW  
EUT Pol. :E1 Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
74.62	S	-79.82	-73.28	-3.98	-2.59	-13.00	-66.82
217.21	S	-71.82	-73.56	4.84	-3.14	-13.00	-58.82
266.68	S	-74.35	-75.75	4.60	-3.27	-13.00	-61.35
366.59	S	-79.15	-80.49	4.67	-3.43	-13.00	-66.15
582.90	S	-81.54	-82.08	4.21	-3.90	-13.00	-68.54
754.59	S	-78.57	-78.99	3.56	-4.23	-13.00	-65.57

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 :WCDMA B5 Test Date :2011-11-24  
ARFCN :4183 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :836.6 Engineer :Marcus  
Operation Mode :TX MID  
EUT Pol. :E1 Measurement Antenna Pol. :VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
34.85	S	-77.06	-60.75	-13.85	-2.47	-13.00	-64.06
160.95	S	-72.92	-69.58	-0.43	-2.93	-13.00	-59.92
224.97	S	-72.24	-73.84	4.74	-3.17	-13.00	-59.24
322.94	S	-80.73	-82.06	4.62	-3.39	-13.00	-67.73
622.67	S	-77.79	-78.24	4.07	-3.97	-13.00	-64.79
748.77	S	-77.95	-78.34	3.54	-4.23	-13.00	-64.95

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 :WCDMA B5 Test Date :2011-11-24  
ARFCN :4183 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :836.6 Engineer :Marcus  
Operation Mode :TX MID  
EUT Pol. :E1 Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
75.59	S	-80.18	-73.94	-3.61	-2.67	-13.00	-67.18
132.82	S	-78.47	-74.80	-0.89	-2.79	-13.00	-65.47
219.15	S	-71.69	-73.41	4.85	-3.17	-13.00	-58.69
268.62	S	-74.09	-75.47	4.58	-3.27	-13.00	-61.09
369.50	S	-79.15	-80.47	4.65	-3.43	-13.00	-66.15
599.39	S	-81.90	-82.28	4.04	-3.92	-13.00	-68.90

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 :WCDMA B5 Test Date :2011-11-24  
ARFCN :4233 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :846.6 Engineer :Marcus  
Operation Mode :TX HIGH  
EUT Pol. :E1 Measurement Antenna Pol. :VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
34.85	S	-76.96	-60.66	-13.85	-2.47	-13.00	-63.96
73.65	S	-80.07	-73.16	-4.35	-2.59	-13.00	-67.07
159.98	S	-74.78	-71.30	-0.57	-2.93	-13.00	-61.78
220.12	S	-72.83	-74.56	4.86	-3.17	-13.00	-59.83
374.35	S	-82.55	-83.83	4.61	-3.43	-13.00	-69.55
626.55	S	-78.50	-78.98	4.08	-3.97	-13.00	-65.50

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 :WCDMA B5 Test Date :2011-11-24  
ARFCN :4233 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :846.6 Engineer :Marcus  
Operation Mode :TX HIGH  
EUT Pol. :E1 Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
74.62	S	-80.30	-73.76	-3.98	-2.59	-13.00	-67.30
131.85	S	-78.85	-75.23	-0.83	-2.79	-13.00	-65.85
222.06	S	-72.20	-73.88	4.81	-3.17	-13.00	-59.20
268.62	S	-74.46	-75.84	4.58	-3.27	-13.00	-61.46
377.26	S	-79.10	-80.39	4.63	-3.43	-13.00	-66.10
661.47	S	-79.95	-80.49	4.13	-4.14	-13.00	-66.95

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.  
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**Radiated Spurious Emission Measurement Result (Above 1GHz): GSM 850 Mode**

Operation Band :GSM 850 Test Date :2011-11-24  
ARFCN :128 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :824.2 Engineer :Marcus  
Operation Mode :TX LOW  
EUT Pol. :E2 Measurement Antenna Pol. :VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
1648.40	H	-56.12	-53.39	2.39	-5.36	-13.00	-43.12
2472.60	H	-49.32	-46.74	3.14	-6.15	-13.00	-36.32
3288.00	---						
4121.00	---						
4945.20	---						
5769.40	---						
6593.60	---						
7417.80	---						
8242.00	---						

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 :GSM 850 Test Date :2011-11-18  
ARFCN :128 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :824.2 Engineer :Marcus  
Operation Mode :TX LOW  
EUT Pol. :E2 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
1648.40	H	-53.95	-51.50	2.68	-5.36	-13.00	-40.95
2472.60	H	-52.03	-49.83	3.52	-6.15	-13.00	-39.03
3288.00	---						
4121.00	---						
4945.20	---						
5769.40	---						
6593.60	---						
7417.80	---						
8242.00	---						

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 :GSM 850 Test Date :2011-11-18  
ARFCN :190 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :836.6 Engineer :Marcus  
Operation Mode :TX MID  
EUT Pol. :E2 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
1673.20	---						
2509.80	H	-51.22	-48.59	3.19	-6.13	-13.00	-38.22
3346.40	---						
4183.00	---						
5019.60	---						
5856.20	---						
6692.80	---						
7529.40	---						
8366.00	---						

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 :GSM 850 Test Date :2011-11-18  
ARFCN :190 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :836.6 Engineer :Marcus  
Operation Mode :TX MID  
EUT Pol. :E2 Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
1673.20	H	-57.81	-55.41	2.66	-5.34	-13.00	-44.81
2509.80	H	-52.67	-50.41	3.55	-6.13	-13.00	-39.67
3346.40	---						
4183.00	---						
5019.60	---						
5856.20	---						
6692.80	---						
7529.40	---						
8366.00	---						

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 :GSM 850 Test Date :2011-11-18  
ARFCN :251 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :848.8 Engineer :Marcus  
Operation Mode :TX HIGH  
EUT Pol. :E2 Measurement Antenna Pol. :VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
1697.60	---						
2547.00	H	-53.18	-50.47	3.30	-6.24	-13.00	-40.18
3395.20	---						
4244.00	---						
5092.80	---						
5941.60	---						
6790.40	---						
7639.20	---						
8488.00	---						

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 :GSM 850 Test Date :2011-11-18  
ARFCN :251 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :848.8 Engineer :Marcus  
Operation Mode :TX HIGH  
EUT Pol. :E2 Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
1697.60	H	-56.91	-54.43	2.65	-5.40	-13.00	-43.91
2546.40	H	-56.79	-54.44	3.66	-6.24	-13.00	-43.79
3395.20	---						
4244.00	---						
5092.80	---						
5941.60	---						
6790.40	---						
7639.20	---						
8488.00	---						

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 (Above 1GHz): GSM 1900 Mode**

Operation Band :GSM 1900 Test Date :2011-11-24  
ARFCN :512 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1850.2 Engineer :Marcus  
Operation Mode :TX LOW  
EUT Pol. :E2 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
3700.40	H	-54.85	-55.39	7.40	-6.98	-13.00	-41.85
5550.60	---						
7400.80	---						
9251.00	---						
11101.20	---						
12951.40	---						
14801.60	---						
16651.80	---						
18502.00	---						

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 :GSM 1900 Test Date :2011-11-24  
ARFCN :512 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1850.2 Engineer :Marcus  
Operation Mode :TX LOW  
EUT Pol. :E2 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
3700.40	H	-56.80	-56.84	6.91	-6.98	-13.00	-43.80
5550.60	---						
7400.80	---						
9251.00	---						
11101.20	---						
12951.40	---						
14801.60	---						
16651.80	---						
18502.00	---						

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 :GSM 1900 Test Date :2011-11-24  
ARFCN :661 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1880.0 Engineer :Marcus  
Operation Mode :TX MID  
EUT Pol. :E2 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
3760.00	H	-53.04	-53.62	7.42	-7.12	-13.00	-40.04
5640.00	---						
7520.00	---						
9400.00	---						
11280.00	---						
13160.00	---						
15040.00	---						
16920.00	---						
18800.00	---						

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 :GSM 1900 Test Date :2011-11-24  
ARFCN :661 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1880.0 Engineer :Marcus  
Operation Mode :TX MID  
EUT Pol. :E2 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
3760.00	H	-55.22	-55.22	6.85	-7.12	-13.00	-42.22
5640.00	---						
7520.00	---						
9400.00	---						
11280.00	---						
13160.00	---						
15040.00	---						
16920.00	---						
18800.00	---						

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 :GSM 1900 Test Date :2011-11-24  
ARFCN :810 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1909.8 Engineer :Marcus  
Operation Mode :TX HIGH  
EUT Pol. :E2 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
3819.60	H	-54.83	-55.33	7.51	-7.20	-13.00	-41.83
5729.40	---						
7639.20	---						
9549.00	---						
11458.80	---						
13368.60	---						
15278.40	---						
17188.20	---						
19098.00	---						

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 :GSM 1900 Test Date :2011-11-24  
ARFCN :810 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1909.8 Engineer :Marcus  
Operation Mode :TX HIGH  
EUT Pol. :E2 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
3819.60	H	-56.13	-56.18	7.05	-7.20	-13.00	-43.13
5729.40	---						
7639.20	---						
9549.00	---						
11458.80	---						
13368.60	---						
15278.40	---						
17188.20	---						
19098.00	---						

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 (Above 1GHz): HSDPA II Mode**

Operation Band :HSDPA B2 Test Date :2011-11-18  
ARFCN :9262 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1852.4 Engineer :Marcus  
Operation Mode :TX LOW  
EUT Pol. :H 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
3704.80	H	-39.97	-40.50	7.40	-6.98	-13.00	-26.97
5557.20	---						
7409.60	---						
9262.00	---						
11114.40	---						
12966.80	---						
14819.20	---						
16671.60	---						
18524.00	---						

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 :HSDPA B2 Test Date :2011-11-18  
ARFCN :9262 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1852.4 Engineer :Marcus  
Operation Mode :TX LOW  
EUT Pol. :H 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
3704.80	H	-50.56	-50.59	6.90	-6.98	-13.00	-37.56
5557.20	---						
7409.60	---						
9262.00	---						
11114.40	---						
12966.80	---						
14819.20	---						
16671.60	---						
18524.00	---						

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 :HSDPA B2 Test Date :2011-11-18  
ARFCN :9400 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1880.0 Engineer :Marcus  
Operation Mode :TX MID  
EUT Pol. :H 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
3760.00	H	-33.45	-34.05	7.42	-7.12	-13.00	-20.45
5640.00	---						
7520.00	---						
9400.00	---						
11280.00	---						
13160.00	---						
15040.00	---						
16920.00	---						
18800.00	---						

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 :HSDPA B2 Test Date :2011-11-18  
ARFCN :9400 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1880.0 Engineer :Marcus  
Operation Mode :TX MID  
EUT Pol. :H 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
3760.00	H	-38.47	-38.50	6.85	-7.12	-13.00	-25.47
5640.00	---						
7520.00	---						
9400.00	---						
11280.00	---						
13160.00	---						
15040.00	---						
16920.00	---						
18800.00	---						

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 :HSDPA B2 Test Date :2011-11-18  
ARFCN :9538 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1907.6 Engineer :Marcus  
Operation Mode :TX HIGH  
EUT Pol. :H 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
3815.20	H	-38.86	-39.38	7.50	-7.20	-13.00	-25.86
5722.80	---						
7630.40	---						
9538.00	---						
11445.60	---						
13353.20	---						
15260.80	---						
17168.40	---						
19076.00	---						

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 :HSDPA B2 Test Date :2011-11-18  
ARFCN :9538 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1907.6 Engineer :Marcus  
Operation Mode :TX HIGH  
EUT Pol. :H 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
3815.20	H	-44.95	-45.00	7.03	-7.20	-13.00	-31.95
5722.80	---						
7630.40	---						
9538.00	---						
11445.60	---						
13353.20	---						
15260.80	---						
17168.40	---						
19076.00	---						

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 (Above 1GHz): WCDMA V Mode**

Operation Band :WCDMA B5 Test Date :2011-11-24  
ARFCN :4132 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :826.4 Engineer :Marcus  
Operation Mode :TX LOW  
EUT Pol. :E1 Measurement Antenna Pol. :VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
1652.80	H	-62.62	-59.65	2.39	-5.36	-13.00	-49.62
2479.20	---						
3305.60	---						
4132.00	---						
4958.40	---						
5784.80	---						
6611.20	---						
7437.60	---						

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 :WCDMA B5 Test Date :2011-11-24  
ARFCN :4132 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :826.4 Engineer :Marcus  
Operation Mode :TX LOW  
EUT Pol. :E1 Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
1652.80	H	-61.78	-59.33	2.67	-5.36	-13.00	-48.78
2479.20	---						
3305.60	---						
4132.00	---						
4958.40	---						
5784.80	---						
6611.20	---						
7437.60	---						

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 :WCDMA B5 Test Date :2011-11-24  
ARFCN :4183 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :836.6 Engineer :Marcus  
Operation Mode :TX MID  
EUT Pol. :E1 Measurement Antenna Pol. :VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
1673.20	H	-62.98	-60.30	2.34	-5.29	-13.00	-49.98
2509.80	---						
3346.40	---						
4183.00	---						
5019.60	---						
5856.20	---						
6692.80	---						
7529.40	---						
8366.00	---						

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 :WCDMA B5 Test Date :2011-11-24  
ARFCN :4183 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :836.6 Engineer :Marcus  
Operation Mode :TX MID  
EUT Pol. :E1 Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
1673.20	H	-61.69	-59.34	2.66	-5.29	-13.00	-48.69
2509.80	---						
3346.40	---						
4183.00	---						
5019.60	---						
5856.20	---						
6692.80	---						
7529.40	---						
8366.00	---						

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 :WCDMA B5 Test Date :2011-11-24  
ARFCN :4233 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :846.6 Engineer :Marcus  
Operation Mode :TX HIGH  
EUT Pol. :E1 Measurement Antenna Pol. :VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
1693.20	H	-61.09	-57.98	2.29	-5.40	-13.00	-48.09
2539.80	---						
3386.40	---						
4233.00	---						
5079.60	---						
5926.20	---						
6772.80	---						
7619.40	---						
8466.00	---						

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 :WCDMA B5 Test Date :2011-11-24  
ARFCN :4233 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :846.6 Engineer :Marcus  
Operation Mode :TX HIGH  
EUT Pol. :E1 Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
1693.20	H	-56.98	-54.50	2.65	-5.40	-13.00	-43.98
2539.80	---						
3386.40	---						
4233.00	---						
5079.60	---						
5926.20	---						
6772.80	---						
7619.40	---						
8466.00	---						

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 (below 1GHz): GSM 850 Mode**

Operation Band :GSM 850 Test Date :2011-12-15  
ARFCN :CH 128 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :824.2 MHz Engineer :Marcus  
Operation Mode :RX LOW  
EUT Pol. :E2 Measurement Antenna Pol. :VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
90.14	S	-74.13	-70.33	-1.14	-2.67	-13.00	-61.13
159.01	S	-72.41	-68.88	-0.62	-2.93	-13.00	-59.41
228.85	S	-72.07	-73.57	4.65	-3.17	-13.00	-59.07
464.56	S	-83.88	-84.84	4.54	-3.72	-13.00	-70.88
699.30	S	-78.25	-79.29	4.15	-4.07	-13.00	-65.25
994.18	S	-74.38	-75.08	3.96	-4.49	-13.00	-61.38

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 :GSM 850 Test Date :2011-12-15  
ARFCN :CH 128 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :824.2 MHz Engineer :Marcus  
Operation Mode :RX LOW  
EUT Pol. :E2 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
115.36	S	-84.55	-80.55	-1.23	-2.77	-13.00	-71.55
124.09	S	-79.60	-75.74	-1.09	-2.77	-13.00	-66.60
214.30	S	-75.34	-77.07	4.82	-3.14	-13.00	-62.34
387.93	S	-82.05	-83.28	4.70	-3.56	-13.00	-69.05
742.95	S	-78.61	-79.07	3.61	-4.23	-13.00	-65.61
960.23	S	-76.31	-76.77	3.71	-4.45	-13.00	-63.31

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 :GSM 850 Test Date :2011-12-15  
ARFCN :CH 190 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :836.6 MHz Engineer :Marcus  
Operation Mode :RX MID  
EUT Pol. :E2 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
90.14	S	-73.98	-70.19	-1.14	-2.67	-13.00	-60.98
151.25	S	-72.28	-68.33	-1.04	-2.93	-13.00	-59.28
225.94	S	-73.76	-75.34	4.72	-3.17	-13.00	-60.76
468.44	S	-83.75	-84.73	4.56	-3.72	-13.00	-70.75
745.86	S	-77.31	-77.73	3.58	-4.23	-13.00	-64.31
935.01	S	-75.48	-75.81	3.64	-4.50	-13.00	-62.48

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 :GSM 850 Test Date :2011-12-15  
ARFCN :CH 190 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :836.6 MHz Engineer :Marcus  
Operation Mode :RX MID  
EUT Pol. :E2 Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
115.36	S	-86.10	-82.10	-1.23	-2.77	-13.00	-73.10
124.09	S	-77.88	-74.02	-1.09	-2.77	-13.00	-64.88
220.12	S	-75.46	-77.19	4.86	-3.17	-13.00	-62.46
370.47	S	-82.82	-84.13	4.64	-3.43	-13.00	-69.82
807.94	S	-79.31	-80.14	3.92	-4.20	-13.00	-66.31
963.14	S	-76.38	-76.86	3.73	-4.45	-13.00	-63.38

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 :GSM 850 Test Date :2011-12-15  
ARFCN :CH 251 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :848.8 MHz Engineer :Marcus  
Operation Mode :RX HIGH  
EUT Pol. :E2 Measurement Antenna Pol. :VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
91.11	S	-74.22	-70.44	-1.12	-2.67	-13.00	-61.22
153.19	S	-72.90	-69.06	-0.93	-2.93	-13.00	-59.90
225.94	S	-73.30	-74.87	4.72	-3.17	-13.00	-60.30
404.42	S	-82.77	-83.99	4.74	-3.62	-13.00	-69.77
800.18	S	-77.23	-78.04	3.90	-4.20	-13.00	-64.23
934.04	S	-75.00	-75.32	3.64	-4.50	-13.00	-62.00

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 :GSM 850 Test Date :2011-12-15  
ARFCN :CH 251 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :848.8 MHz Engineer :Marcus  
Operation Mode :RX HIGH  
EUT Pol. :E2 Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
114.39	S	-86.37	-82.40	-1.20	-2.77	-13.00	-73.37
124.09	S	-78.20	-74.34	-1.09	-2.77	-13.00	-65.20
269.59	S	-75.59	-76.96	4.56	-3.27	-13.00	-62.59
373.38	S	-82.38	-83.67	4.62	-3.43	-13.00	-69.38
815.70	S	-78.56	-79.40	3.94	-4.22	-13.00	-65.56
948.59	S	-75.66	-75.99	3.63	-4.51	-13.00	-62.66

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 (below 1GHz): GSM 1900 Mode**

Operation Band :GSM 1900 Test Date :2011-12-15  
ARFCN :CH 512 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1850.2 MHz Engineer :Marcus  
Operation Mode :RX LOW  
EUT Pol. :E2 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
80.44	S	-83.13	-80.68	0.19	-2.67	-13.00	-70.13
159.01	S	-75.86	-74.46	1.53	-2.93	-13.00	-62.86
227.88	S	-76.55	-80.21	6.82	-3.17	-13.00	-63.55
451.95	S	-82.01	-84.97	6.63	-3.70	-13.00	-69.01
703.18	S	-76.22	-78.48	6.26	-4.07	-13.00	-63.22
929.19	S	-73.33	-74.71	5.79	-4.50	-13.00	-60.33

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 :GSM 1900 Test Date :2011-12-15  
ARFCN :CH 251 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1850.2 MHz Engineer :Marcus  
Operation Mode :RX LOW  
EUT Pol. :E2 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
113.42	S	-87.03	-85.24	0.97	-2.77	-13.00	-74.03
124.09	S	-77.09	-75.38	1.06	-2.77	-13.00	-64.09
264.74	S	-74.24	-77.77	6.78	-3.27	-13.00	-61.24
378.23	S	-81.50	-84.88	6.78	-3.43	-13.00	-68.50
787.57	S	-77.29	-79.16	5.96	-4.16	-13.00	-64.29
947.62	S	-75.79	-77.16	5.78	-4.51	-13.00	-62.79

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 :GSM 1900 Test Date :2011-12-15  
ARFCN :CH 661 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1880.0 MHz Engineer :Marcus  
Operation Mode :RX MID  
EUT Pol. :E2 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
80.44	S	-82.31	-79.86	0.19	-2.67	-13.00	-69.31
159.98	S	-75.73	-74.39	1.58	-2.93	-13.00	-62.73
224.00	S	-75.54	-79.29	6.91	-3.17	-13.00	-62.54
413.15	S	-81.57	-84.80	6.82	-3.62	-13.00	-68.57
795.33	S	-75.82	-77.70	6.02	-4.20	-13.00	-62.82
933.07	S	-73.32	-74.71	5.79	-4.50	-13.00	-60.32

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 :GSM 1900 Test Date :2011-12-15  
ARFCN :CH 661 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1880.0 MHz Engineer :Marcus  
Operation Mode :RX MID  
EUT Pol. :E2 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
113.42	S	-87.03	-85.24	0.97	-2.77	-13.00	-74.03
124.09	S	-77.09	-75.38	1.06	-2.77	-13.00	-64.09
269.59	S	-74.04	-77.50	6.71	-3.27	-13.00	-61.04
384.05	S	-81.04	-84.33	6.82	-3.56	-13.00	-68.04
790.48	S	-76.67	-78.56	5.98	-4.16	-13.00	-63.67
953.44	S	-75.18	-76.58	5.81	-4.51	-13.00	-62.18

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 :GSM 1900 Test Date :2011-12-15  
ARFCN :CH 810 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1909.8 MHz Engineer :Marcus  
Operation Mode :RX HIGH  
EUT Pol. :E2 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
80.44	S	-83.05	-80.60	0.19	-2.67	-13.00	-70.05
160.95	S	-78.28	-77.07	1.72	-2.93	-13.00	-65.28
228.85	S	-78.30	-81.94	6.80	-3.17	-13.00	-65.30
435.46	S	-81.75	-84.76	6.68	-3.70	-13.00	-68.75
798.24	S	-76.50	-78.40	6.04	-4.20	-13.00	-63.50
995.15	S	-73.87	-75.60	6.12	-4.49	-13.00	-60.87

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 :GSM 1900 Test Date :2011-12-15  
ARFCN :CH 810 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1909.8 MHz Engineer :Marcus  
Operation Mode :RX HIGH  
EUT Pol. :E2 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
115.36	S	-82.83	-80.99	0.92	-2.77	-13.00	-69.83
124.09	S	-72.43	-70.72	1.06	-2.77	-13.00	-59.43
216.24	S	-72.05	-75.90	6.99	-3.14	-13.00	-59.05
374.35	S	-80.02	-83.38	6.76	-3.43	-13.00	-67.02
718.70	S	-77.71	-79.85	6.06	-3.98	-13.00	-64.71
959.26	S	-75.51	-77.01	5.85	-4.45	-13.00	-62.51

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 (below 1GHz): HSDPA II Mode**

Operation Band :HSDPA B2 Test Date :2011-12-15  
ARFCN :CH 9262 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1852.4 MHz Engineer :Marcus  
Operation Mode :RX LOW  
EUT Pol. :H 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
80.44	S	-82.26	-79.81	0.19	-2.67	-13.00	-69.26
159.98	S	-74.93	-73.58	1.58	-2.93	-13.00	-61.93
224.00	S	-73.85	-77.59	6.91	-3.17	-13.00	-60.85
370.47	S	-81.91	-85.30	6.79	-3.43	-13.00	-68.91
786.60	S	-76.34	-78.21	5.95	-4.16	-13.00	-63.34
994.18	S	-73.70	-75.42	6.11	-4.49	-13.00	-60.70

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 :HSDPA B2 Test Date :2011-12-15  
ARFCN :CH 9262 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1852.4 MHz Engineer :Marcus  
Operation Mode :RX LOW  
EUT Pol. :H 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
112.45	S	-87.15	-85.39	1.00	-2.77	-13.00	-74.15
123.12	S	-78.33	-76.56	0.99	-2.77	-13.00	-65.33
269.59	S	-74.40	-77.86	6.71	-3.27	-13.00	-61.40
370.47	S	-81.17	-84.56	6.79	-3.43	-13.00	-68.17
808.91	S	-77.62	-79.56	6.07	-4.20	-13.00	-64.62
983.51	S	-75.32	-76.95	6.03	-4.49	-13.00	-62.32

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 :HSDPA B2 Test Date :2011-12-15  
ARFCN :CH 9400 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1880.0 MHz Engineer :Marcus  
Operation Mode :RX MID  
EUT Pol. :H 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
80.44	S	-82.26	-79.81	0.19	-2.67	-13.00	-69.26
159.98	S	-74.93	-73.58	1.58	-2.93	-13.00	-61.93
224.00	S	-73.85	-77.59	6.91	-3.17	-13.00	-60.85
370.47	S	-81.91	-85.30	6.79	-3.43	-13.00	-68.91
786.60	S	-76.34	-78.21	5.95	-4.16	-13.00	-63.34
986.42	S	-73.43	-75.09	6.05	-4.49	-13.00	-60.43

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 :HSDPA B2 Test Date :2011-12-15  
ARFCN :CH 9400 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1880.0 MHz Engineer :Marcus  
Operation Mode :RX MID  
EUT Pol. :H 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
86.26	S	-89.07	-87.12	0.70	-2.67	-13.00	-76.07
123.12	S	-80.40	-78.63	0.99	-2.77	-13.00	-67.40
215.27	S	-78.71	-82.56	6.98	-3.14	-13.00	-65.71
384.05	S	-81.36	-84.64	6.82	-3.56	-13.00	-68.36
793.39	S	-77.49	-79.41	6.00	-4.16	-13.00	-64.49
940.83	S	-75.36	-76.73	5.78	-4.51	-13.00	-62.36

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 :HSDPA B2 Test Date :2011-12-15  
ARFCN :CH 9538 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1907.6 MHz Engineer :Marcus  
Operation Mode :RX HIGH  
EUT Pol. :H 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
80.44	S	-83.60	-81.15	0.19	-2.67	-13.00	-70.60
159.98	S	-77.60	-76.25	1.58	-2.93	-13.00	-64.60
221.09	S	-78.57	-82.39	6.98	-3.17	-13.00	-65.57
446.13	S	-82.34	-85.31	6.64	-3.70	-13.00	-69.34
710.94	S	-77.15	-79.39	6.16	-3.98	-13.00	-64.15
942.77	S	-73.09	-74.46	5.78	-4.51	-13.00	-60.09

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 :HSDPA B2 Test Date :2011-12-15  
ARFCN :CH 9538 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1907.6 MHz Engineer :Marcus  
Operation Mode :RX HIGH  
EUT Pol. :H 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
115.36	S	-83.97	-82.13	0.92	-2.77	-13.00	-70.97
123.12	S	-74.80	-73.03	0.99	-2.77	-13.00	-61.80
217.21	S	-72.91	-76.76	6.99	-3.14	-13.00	-59.91
370.47	S	-80.46	-83.85	6.79	-3.43	-13.00	-67.46
767.20	S	-77.35	-79.03	5.81	-4.20	-13.00	-64.35
978.66	S	-75.45	-77.05	5.99	-4.49	-13.00	-62.45

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 (below 1GHz): WCDMA V Mode**

Operation Band :WCDMA B5 Test Date :2011-12-15  
ARFCN :CH 4132 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :826.4 MHz Engineer :Marcus  
Operation Mode :RX LOW  
EUT Pol. :E1 Measurement Antenna Pol. :VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
80.44	S	-85.00	-80.39	-1.96	-2.67	-13.00	-72.00
159.98	S	-80.86	-77.38	-0.57	-2.93	-13.00	-67.86
228.85	S	-81.47	-82.98	4.65	-3.17	-13.00	-68.47
450.01	S	-84.31	-85.21	4.47	-3.70	-13.00	-71.31
704.15	S	-78.20	-79.34	4.10	-3.98	-13.00	-65.20
935.01	S	-74.64	-74.97	3.64	-4.50	-13.00	-61.64

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 :WCDMA B5 Test Date :2011-12-15  
ARFCN :CH 4132 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :826.4 MHz Engineer :Marcus  
Operation Mode :RX LOW  
EUT Pol. :E1 Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
128.94	S	-83.05	-79.49	-0.78	-2.79	-13.00	-70.05
225.94	S	-77.98	-79.55	4.72	-3.17	-13.00	-64.98
267.65	S	-78.35	-79.73	4.59	-3.27	-13.00	-65.35
375.32	S	-84.05	-85.33	4.61	-3.43	-13.00	-71.05
816.67	S	-78.52	-79.36	3.94	-4.22	-13.00	-65.52
956.35	S	-76.05	-76.48	3.68	-4.45	-13.00	-63.05

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 :WCDMA B5 Test Date :2011-12-15  
ARFCN :CH 4183 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :836.6 MHz Engineer :Marcus  
Operation Mode :RX MID  
EUT Pol. :E1 Measurement Antenna Pol. :VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
80.44	S	-85.00	-80.39	-1.96	-2.67	-13.00	-72.00
159.01	S	-79.01	-75.48	-0.62	-2.93	-13.00	-66.01
262.80	S	-80.29	-81.74	4.66	-3.27	-13.00	-67.29
454.86	S	-83.27	-84.17	4.49	-3.72	-13.00	-70.27
746.83	S	-77.79	-78.20	3.57	-4.23	-13.00	-64.79
935.01	S	-74.64	-74.97	3.64	-4.50	-13.00	-61.64

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 :WCDMA B5 Test Date :2011-12-15  
ARFCN :CH 4283 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :836.6 MHz Engineer :Marcus  
Operation Mode :RX MID  
EUT Pol. :E1 Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
121.18	S	-83.41	-79.35	-1.29	-2.77	-13.00	-70.41
224.00	S	-80.51	-82.13	4.76	-3.17	-13.00	-67.51
271.53	S	-82.22	-83.55	4.54	-3.27	-13.00	-69.22
444.19	S	-84.91	-85.83	4.50	-3.70	-13.00	-71.91
738.10	S	-79.45	-80.04	3.67	-4.14	-13.00	-66.45
964.11	S	-76.83	-77.33	3.74	-4.45	-13.00	-63.83

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 :WCDMA B5 Test Date :2011-12-15  
ARFCN :CH 4233 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :846.6 MHz Engineer :Marcus  
Operation Mode :RX HIGH  
EUT Pol. :E1 Measurement Antenna Pol. :VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
80.44	S	-84.21	-79.60	-1.96	-2.67	-13.00	-71.21
159.01	S	-76.20	-72.66	-0.62	-2.93	-13.00	-63.20
262.80	S	-77.03	-78.48	4.66	-3.27	-13.00	-64.03
454.86	S	-83.27	-84.17	4.49	-3.72	-13.00	-70.27
746.83	S	-77.79	-78.20	3.57	-4.23	-13.00	-64.79
935.01	S	-74.64	-74.97	3.64	-4.50	-13.00	-61.64

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 :WCDMA B5 Test Date :2011-12-15  
ARFCN :CH 4233 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :846.6 MHz Engineer :Marcus  
Operation Mode :RX HIGH  
EUT Pol. :E1 Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
121.18	S	-83.41	-79.35	-1.29	-2.77	-13.00	-70.41
272.50	S	-78.58	-79.90	4.52	-3.27	-13.00	-65.58
444.19	S	-84.77	-85.68	4.50	-3.70	-13.00	-71.77
612.00	S	-82.38	-82.82	4.05	-3.92	-13.00	-69.38
816.67	S	-78.67	-79.51	3.94	-4.22	-13.00	-65.67
950.53	S	-76.55	-76.88	3.63	-4.51	-13.00	-63.55

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 (Above 1GHz): GSM 850 Mode**

Operation Band :GSM 850 Test Date :2011-12-15  
ARFCN :CH 128 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :824.2 MHz Engineer :Marcus  
Operation Mode :RX LOW  
EUT Pol. :E2 Measurement Antenna Pol. :VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
1648.40	H	-64.71	-61.97	2.40	-5.36	-13.00	-51.71
2472.60	---						
3288.00	---						
4121.00	---						
4945.20	---						
5769.40	---						
6593.60	---						
7417.80	---						
8242.00	---						

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 :GSM 850 Test Date :2011-12-15  
ARFCN :CH 128 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :824.2 MHz Engineer :Marcus  
Operation Mode :RX LOW  
EUT Pol. :E2 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
1648.40	H	-65.57	-63.12	2.68	-5.36	-13.00	-52.57
2472.60	---						
3288.00	---						
4121.00	---						
4945.20	---						
5769.40	---						
6593.60	---						
7417.80	---						
8242.00	---						

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 :GSM 850 Test Date :2011-12-15  
ARFCN :CH 190 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :836.6 MHz Engineer :Marcus  
Operation Mode :RX MID  
EUT Pol. :E2 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
1673.20	H	-63.40	-60.73	2.34	-5.29	-13.00	-50.40
2509.80	---						
3346.40	---						
4183.00	---						
5019.60	---						
5856.20	---						
6692.80	---						
7529.40	---						
8366.00	---						

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 :GSM 850 Test Date :2011-12-15  
ARFCN :CH 190 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :836.6 MHz Engineer :Marcus  
Operation Mode :RX MID  
EUT Pol. :E2 Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
1673.20	H	-65.13	-62.78	2.66	-5.29	-13.00	-52.13
2509.80	---						
3346.40	---						
4183.00	---						
5019.60	---						
5856.20	---						
6692.80	---						
7529.40	---						
8366.00	---						

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 :GSM 850 Test Date :2011-12-15  
ARFCN :CH 251 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :848.8 MHz Engineer :Marcus  
Operation Mode :RX HIGH  
EUT Pol. :E2 Measurement Antenna Pol. :VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
1697.60	H	-62.45	-59.59	2.28	-5.40	-13.00	-49.45
2546.40	---						
3395.20	---						
4244.00	---						
5092.80	---						
5941.60	---						
6790.40	---						
7639.20	---						
8488.00	---						

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 :GSM 850 Test Date :2011-12-15  
ARFCN :CH 251 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :848.8 MHz Engineer :Marcus  
Operation Mode :RX HIGH  
EUT Pol. :E2 Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
1697.60	H	-64.77	-62.28	2.65	-5.40	-13.00	-51.77
2546.40	---						
3395.20	---						
4244.00	---						
5092.80	---						
5941.60	---						
6790.40	---						
7639.20	---						
8488.00	---						

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 (Above 1GHz): GSM 1900 Mode**

Operation Band :GSM 1900 Test Date :2011-12-15  
ARFCN :CH 512 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1850.2 MHz Engineer :Marcus  
Operation Mode :RX LOW  
EUT Pol. :E2 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
3700.40	H	-54.61	-55.14	7.40	-6.98	-13.00	-41.61
5550.60	---						
7400.80	---						
9251.00	---						
11101.20	---						
12951.40	---						
14801.60	---						
16651.80	---						
18502.00	---						

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 :GSM 1900 Test Date :2011-12-15  
ARFCN :CH 251 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1850.2 MHz Engineer :Marcus  
Operation Mode :RX LOW  
EUT Pol. :E2 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
3700.40	H	-57.39	-57.43	6.91	-6.98	-13.00	-44.39
5550.60	---						
7400.80	---						
9251.00	---						
11101.20	---						
12951.40	---						
14801.60	---						
16651.80	---						
18502.00	---						

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 :GSM 1900 Test Date :2011-12-15  
ARFCN :CH 661 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1880.0 MHz Engineer :Marcus  
Operation Mode :RX MID  
EUT Pol. :E2 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
3760.00	H	-55.82	-56.40	7.42	-7.12	-13.00	-42.82
5640.00	---						
7520.00	---						
9400.00	---						
11280.00	---						
13160.00	---						
15040.00	---						
16920.00	---						
18800.00	---						

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 :GSM 1900 Test Date :2011-12-15  
ARFCN :CH 661 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1880.0 MHz Engineer :Marcus  
Operation Mode :RX MID  
EUT Pol. :E2 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
3760.00	H	-57.63	-57.63	6.85	-7.12	-13.00	-44.63
5640.00	---						
7520.00	---						
9400.00	---						
11280.00	---						
13160.00	---						
15040.00	---						
16920.00	---						
18800.00	---						

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 :GSM 1900 Test Date :2011-12-15  
ARFCN :CH 810 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1909.8 MHz Engineer :Marcus  
Operation Mode :RX HIGH  
EUT Pol. :E2 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
3819.60	H	-56.88	-57.39	7.51	-7.20	-13.00	-43.88
5729.40	---						
7639.20	---						
9549.00	---						
11458.80	---						
13368.60	---						
15278.40	---						
17188.20	---						
19098.00	---						

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 :GSM 1900 Test Date :2011-12-15  
ARFCN :CH 810 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1909.8 MHz Engineer :Marcus  
Operation Mode :RX HIGH  
EUT Pol. :E2 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
3819.60	H	-57.35	-57.39	7.05	-7.20	-13.00	-44.35
5729.40	---						
7639.20	---						
9549.00	---						
11458.80	---						
13368.60	---						
15278.40	---						
17188.20	---						
19098.00	---						

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 (Above 1GHz): HSDPA II Mode**

Operation Band :HSDPA B2 Test Date :2011-12-15  
ARFCN :CH 9262 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1852.4 MHz Engineer :Marcus  
Operation Mode :RX LOW  
EUT Pol. :H 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
3704.80	H	-58.97	-59.49	7.40	-6.98	-13.00	-45.97
5557.20	---						
7409.60	---						
9262.00	---						
11114.40	---						
12966.80	---						
14819.20	---						
16671.60	---						
18524.00	---						

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 :HSDPA B2 Test Date :2011-12-15  
ARFCN :CH 9262 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1852.4 MHz Engineer :Marcus  
Operation Mode :RX LOW  
EUT Pol. :H 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
3704.80	H	-63.49	-63.51	6.90	-6.98	-13.00	-50.49
5557.20	---						
7409.60	---						
9262.00	---						
11114.40	---						
12966.80	---						
14819.20	---						
16671.60	---						
18524.00	---						

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 :HSDPA B2 Test Date :2011-12-15  
ARFCN :CH 9400 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1880.0 MHz Engineer :Marcus  
Operation Mode :RX MID  
EUT Pol. :H 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
3760.00	H	-61.74	-62.32	7.42	-7.12	-13.00	-48.74
5640.00	---						
7520.00	---						
9400.00	---						
11280.00	---						
13160.00	---						
15040.00	---						
16920.00	---						
18800.00	---						

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 :HSDPA B2 Test Date :2011-12-15  
ARFCN :CH 9400 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1880.0 MHz Engineer :Marcus  
Operation Mode :RX MID  
EUT Pol. :H 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
3760.00	H	-62.32	-62.32	6.85	-7.12	-13.00	-49.32
5640.00	---						
7520.00	---						
9400.00	---						
11280.00	---						
13160.00	---						
15040.00	---						
16920.00	---						
18800.00	---						

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 :HSDPA B2 Test Date :2011-12-15  
ARFCN :CH 9538 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1907.6 MHz Engineer :Marcus  
Operation Mode :RX HIGH  
EUT Pol. :H 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
3815.20	H	-61.24	-61.76	7.50	-7.20	-13.00	-48.24
5722.80	---						
7630.40	---						
9538.00	---						
11445.60	---						
13353.20	---						
15260.80	---						
17168.40	---						
19076.00	---						

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 :HSDPA B2 Test Date :2011-12-15  
ARFCN :CH 9538 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :1907.6 MHz Engineer :Marcus  
Operation Mode :RX HIGH  
EUT Pol. :H 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
3815.20	H	-62.18	-62.22	7.03	-7.20	-13.00	-49.18
5722.80	---						
7630.40	---						
9538.00	---						
11445.60	---						
13353.20	---						
15260.80	---						
17168.40	---						
19076.00	---						

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 (Above 1GHz): WCDMA V Mode**

Operation Band :WCDMA B5 Test Date :2011-12-15  
ARFCN :CH 4132 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :826.4 MHz Engineer :Marcus  
Operation Mode :RX LOW  
EUT Pol. :E1 Measurement Antenna Pol. :VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
1652.80	H	-72.61	-69.87	2.39	-5.36	-13.00	-59.61
2479.20	---						
3305.60	---						
4132.00	---						
4958.40	---						
5784.80	---						
6611.20	---						
7437.60	---						

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 :WCDMA B5 Test Date :2011-12-15  
ARFCN :CH 4132 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :826.4 MHz Engineer :Marcus  
Operation Mode :RX LOW  
EUT Pol. :E1 Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
1652.80	H	-74.06	-71.61	2.67	-5.36	-13.00	-61.06
2479.20	---						
3305.60	---						
4132.00	---						
4958.40	---						
5784.80	---						
6611.20	---						
7437.60	---						

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 :WCDMA B5 Test Date :2011-12-15  
ARFCN :CH 4183 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :836.6 MHz Engineer :Marcus  
Operation Mode :RX MID  
EUT Pol. :E1 Measurement Antenna Pol. :VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
1673.20	H	-72.82	-70.14	2.34	-5.29	-13.00	-59.82
2509.80	---						
3346.40	---						
4183.00	---						
5019.60	---						
5856.20	---						
6692.80	---						
7529.40	---						
8366.00	---						

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 :WCDMA B5 Test Date :2011-12-15  
ARFCN :CH 4283 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :836.6 MHz Engineer :Marcus  
Operation Mode :RX MID  
EUT Pol. :E1 Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
1673.20	H	-74.32	-71.98	2.66	-5.29	-13.00	-61.32
2509.80	---						
3346.40	---						
4183.00	---						
5019.60	---						
5856.20	---						
6692.80	---						
7529.40	---						
8366.00	---						

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 :WCDMA B5 Test Date :2011-12-15  
ARFCN :CH 4233 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :846.6 MHz Engineer :Marcus  
Operation Mode :RX HIGH  
EUT Pol. :E1 Measurement Antenna Pol. :VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
1693.20	H	-71.26	-68.42	2.29	-5.40	-13.00	-58.26
2539.80	---						
3386.40	---						
4233.00	---						
5079.60	---						
5926.20	---						
6772.80	---						
7619.40	---						
8466.00	---						

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 :WCDMA B5 Test Date :2011-12-15  
ARFCN :CH 4233 Temp./Humi. :27 deg\_C / 66 RH  
Fundamental Frequency :846.6 MHz Engineer :Marcus  
Operation Mode :RX HIGH  
EUT Pol. :E1 Measurement Antenna Pol. :HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
1693.20	H	-73.64	-71.16	2.65	-5.40	-13.00	-60.64
2539.80	---						
3386.40	---						
4233.00	---						
5079.60	---						
5926.20	---						
6772.80	---						
7619.40	---						
8466.00	---						

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)

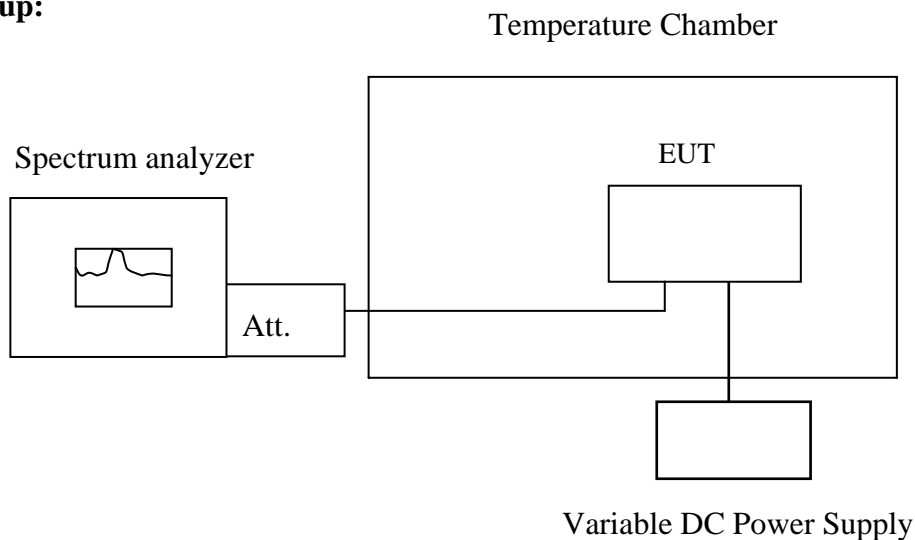
Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-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 (°C)	(MHz)		
3.7	55	836600023	30	2091
3.7	50	836600019	26	2091
3.7	40	836600025	32	2091
3.7	30	836600027	34	2091
3.7	20	836599993	0	2091
3.7	10	836600003	10	2091
3.7	0	836599989	-4	2091
3.7	-10	836599979	-14	2091

Reference Frequency: GPRS 1900Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	55	1879999988	-30	4700
3.7	50	1880000010	-8	4700
3.7	40	1880000016	-2	4700
3.7	30	1880000018	0	4700
3.7	20	1880000018	0	4700
3.7	10	1879999959	-59	4700
3.7	0	1879999941	-77	4700
3.7	-10	1879999945	-73	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 (°C)	(MHz)		
3.7	55	1880000007	13	4700
3.7	50	1879999994	0	4700
3.7	40	1880000005	11	4700
3.7	30	1879999993	-1	4700
3.7	20	1879999994	0	4700
3.7	10	1880000008	14	4700
3.7	0	1880000004	10	4700
3.7	-10	1879999998	4	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 (°C)	(MHz)		
3.7	55	836600008	9	2091
3.7	50	836600005	6	2091
3.7	40	836600003	4	2091
3.7	30	836599998	-1	2091
3.7	20	836599999	0	2091
3.7	10	836600004	5	2091
3.7	0	836599999	0	2091
3.7	-10	836599996	-3	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 10.2 in this report

### 12.3. Measurement Procedure:

Set chamber temperature to 25°C. 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: GPRS Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.2	20	836600002	9	2091
3.7	20	836599993	0	2091
3.5	20	836599987	-6	2091
3.2 (End Point)	20	836599654	-339	2091

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.2	20	1880000023	5	4700
3.7	20	1880000018	0	4700
3.5	20	1880000037	19	4700
3.0 (End Point)	20	1879999433	-585	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 (°C)	(MHz)		
4.2	20	1880000004	10	4700
3.7	20	1879999994	0	4700
3.5	20	1879999997	3	4700
3.0 (End Point)	20	1880000468	474	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 (°C)	(MHz)		
4.2	20	836599996	-3	2091
3.7	20	836599999	0	2091
3.5	20	836599997	-2	2091
3.0 (Endpoint)	20	836600068	69	2091

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

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