

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E

OF

Product Name: GLADIUS 5
Brand Name: ARBOR
Marketing Name: GLADIUS 5
Model No.: G551BA, G55XXXX (X=0~9, A~Z)
Model Difference: Please refer to page 7
FCC ID: 2ACHW-G55
Report No.: EH/2014/10024A-02
Issue Date: Aug. 21, 2014
FCC Rule Part: 2, 22H & 24E
Prepared for: ARBOR Technology Corp.
10F., No.700, Zhongzheng Rd., Zhonghe Dist., New
Taipei City, Taiwan
Prepared by: SGS Taiwan Ltd.
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24803

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VERIFICATION OF COMPLIANCE

ARBOR Technology Corp.

Applicant: 10F., No.700, Zhongzheng Rd., Zhonghe Dist., New Taipei City, Taiwan

Product Name: GLADIUS 5

Brand Name: ARBOR

Marketing Name: GLADIUS 5

Model No.: G551BA, G55XXXX (X=0~9, A~Z)

Model Difference: Please refer to page 7

FCC ID: 2ACHW-G55

File Number: EH/2014/10024A-02

Date of test: Jan. 29, 2014 ~ May. 09, 2014

Date of EUT Received: Jan. 22, 2014

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, 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.

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

Test By:**Date**

Aug. 21, 2014

*Marcus Tseng / Engineer***Prepared By:****Date**

Aug. 21, 2014

*Julia Chang / Clerk***Approved By:****Date**

Aug. 21, 2014

Jim Chang / Supervisor

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Version

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| 00 | Aug. 21, 2014 | Initial creation of document |
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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

| | | |
|--------------------|---|---|
| Product Name: | GLADIUS 5 | |
| Brand Name: | ARBOR | |
| Marketing Name: | GLADIUS 5 | |
| Model No.: | G551BA, G55XXXX (X=0~9, A~Z) | |
| Model difference: | Please refer to page 7 | |
| Hardware Version: | V02 | |
| Software Version: | AMobile_G0550_V08 | |
| Data Cable (USB): | Model No.: YXT-64-MK5P-1M, Supplier: THIN STRIP OF SKY | |
| Simple Hands-Free: | Model No.: LTX-12654319-B003, Supplier: Sanmu | |
| Power Supply: | 3.7Vdc Rechargeable Li-ion Battery or 5Vdc from AC/DC Adapter | |
| | Battery: | Model: G0550B01, Supplier: Japone |
| | Adapter: | Model No.: BSYB050150U USB, Supplier: BSY |

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GSM / GPRS / WCDMA:

| Cellular Phone Standards Frequency Range and Power. | Operating Frequency | | Rated Power |
|---|---|-----------------------|-------------|
| | GSM/GPRS 850, Class 12 | 824.2 MHz– 848.8 MHz | 33dBm |
| | GSM/GPRS 1900, Class 12 | 1850.2MHz – 1909.8MHz | 30dBm |
| | WCDMA/HSUPA/HSDPA /HSPA+ Band II | 1852.4MHz – 1907.6MHz | 24dBm |
| | WCDMA/HSUPA/HSDPA /HSPA+ Band V | 826.4MHz - 846.6MHz | 24dBm |
| Type of Emission: | GSM 850: 248KGXW, GSM 1900: 245KGXW GPRS 850: 249KGXW, GPRS 1900: 245KGXW WCDMA Band II: 4M15F9W, WCDMA Band V: 4M16F9W HSDPA Band II: 4M16F9W, HSDPA Band V: 4M18F9W HSUPA Band II: 4M17F9W, HSUPA Band V: 4M16F9W | | |
| IMEI: | 865922019095200 | | |

This test report applies for 850 / 1700 / 1900 GSM / GPRS, WCDMA / HSDPA / HSUPA Band II/V.

Model Difference:

| G55XXXX | 55 | X | X | XX |
|---------|------------|---|--------------------|---|
| Model | Panel Size | Barcode Type | Color | Location |
| G | 55: 5.5" | 0:No Barcode Scanner 1:Honey 1D Scanner 2:Honey 2D Scanner 3:Marson 1D Scanner | B:Black W:White | where X may be A-Z or blank for Marketing purpose |

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Final Amplifier Voltage and Current Information:

| Test Mode | DC voltage (V) | DC current (mA) |
|-----------|----------------|-----------------|
| GSM 850 | 3.7 | 310 |
| GSM 1900 | 3.7 | 240 |
| GPRS 850 | 3.7 | 220 |
| GPRS 1900 | 3.7 | 240 |
| WCDMA B2 | 3.7 | 570 |
| WCDMA B5 | 3.7 | 560 |
| HSUPA B2 | 3.7 | 550 |
| HSUPA B5 | 3.7 | 470 |
| HSDPA B2 | 3.7 | 560 |
| HSDPA B5 | 3.7 | 500 |

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1.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: 2ACHW-G55** filing to comply with Section Part 22 subpart H, Part 24 subpart E of the FCC CFR 47 Rules.

1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures document of TIA/EIA 603C and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

TS 151 010-1 is used to set, and measure the output power.

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

KDB971168 D01 Power Meas license Digital System v01 as the supplemental guideline to conduct the measurement, including Peak to Power Average Ratio, Average Power over the fundamental signal BW (EIRP/ERP) and Signal Bandwidth.

1.4. 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 Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803 which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009. FCC Registration Number are: 990257, Canada Registration Number: 4620A-4.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan Township, Taoyuan County, Taiwan, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 & 10 meters) and FCC Registration Number: 455997.

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

1.5. Special Accessories

No special accessories were used during testing.

1.6. Equipment Modifications

There were no modifications incorporated into the EUT.

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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 continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels 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 and RSS-Gen Issue 3, 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 placed on a 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 C63.4:2009.

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2.4. Measurement Equipment Used:

| ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber | | | | | |
|--|-----------------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 05/30/2013 | 05/29/2014 |
| EXA Spectrum Analyzer | Agilent | N9010A | MY50420195 | 01/20/2014 | 01/19/2015 |
| Spectrum Analyzer | R&S | FSV-30 | 101398 | 10/22/2013 | 10/21/2014 |
| Bilog Antenna | SCHWAZBECK | VULB9168 | 378 | 01/02/2014 | 01/01/2015 |
| Bilog Antenna | SCHWAZBECK | VULB9160 | 3158 | 11/27/2013 | 11/26/2014 |
| Horn antenna | ETS.LINDGREN | 3117 | 123995 | 05/31/2013 | 05/30/2014 |
| Horn antenna | ETS.LINDGREN | 3117 | 123991 | 01/20/2014 | 01/19/2015 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 184 | 01/23/2014 | 01/22/2015 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 185 | 07/19/2013 | 07/18/2014 |
| Network Analyze | Anritsu | MS4644A | 1216312 | 05/23/2013 | 05/22/2014 |
| Signal Generator | Agilent | E4438C | MY45093613 | 07/30/2013 | 07/29/2014 |
| Pre-Amplifier | Agilent | 8447D | 1937A02834 | 01/03/2014 | 01/02/2015 |
| Pre-Amplifier | Agilent | 8449B | 3008A00578 | 01/03/2014 | 01/02/2015 |
| Pre-Amplifier | EMC Instruments Corp. | EMC184045 | 980135 | 01/24/2014 | 01/23/2015 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 004 | 02/27/2014 | 02/26/2015 |
| Radio Communication Analyzer | R & S | CMU200 | 102189 | 06/17/2013 | 06/16/2014 |
| Radio Communication Analyzer | Anritsu | MT8820C | 6200995019 | 10/21/2013 | 10/20/2014 |
| Turn Table | HD | DT420 | N/A | N.C.R | N.C.R |
| Antenna Tower | HD | MA240-N | 240/657 | N.C.R | N.C.R |
| Controller | HD | HD100 | N/A | N.C.R | N.C.R |
| Low Loss Cable | HUBER+SUHNER | 966_Tx | 10m | 01/03/2014 | 01/02/2015 |
| Low Loss Cable | HUBER+SUHNER | 966_Rx | 3m | 01/03/2014 | 01/02/2015 |
| Filter 800-1000 | Micro-Tronics | EWT | M2 | 02/27/2014 | 02/26/2015 |
| Filter 1800-2000 | Micro-Tronics | EWT | M2 | 02/27/2014 | 02/26/2015 |
| Filter 1700-1800 | Micro-Tronics | BRC15751 | 001 | 02/27/2014 | 02/26/2015 |
| 1GHz High Pass Filter | Micro-Tronics | HPM50108 | 32 | 02/27/2014 | 02/26/2015 |
| 2GHz High Pass Filter | Micro-Tronics | HPM50110 | 36 | 02/27/2014 | 02/26/2015 |
| 3m Site NSA | SGS | 966 chamber | N/A | 07/15/2013 | 07/14/2014 |

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| Conducted Emission Test Site | | | | | |
|------------------------------|---------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 05/30/2013 | 05/29/2014 |
| Spectrum Analyzer | Agilent | E4440A | US41160416 | 03/08/2014 | 03/07/2015 |
| Radio Communication Analyzer | R & S | CMU200 | 102189 | 06/17/2013 | 06/16/2014 |
| Radio Communication Analyzer | Anritsu | MT8820C | 6200995019 | 10/21/2013 | 10/20/2014 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 05/07/2014 | 05/06/2015 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 02/27/2014 | 02/26/2015 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 002 | 02/27/2014 | 02/26/2015 |
| Splitter | Agilent | 11636B | N/A | 02/27/2014 | 02/26/2015 |
| DC Power Supply | Agilent | E3640A | KR93300208 | 07/24/2013 | 07/23/2014 |

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2.5. Configuration of Tested System

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

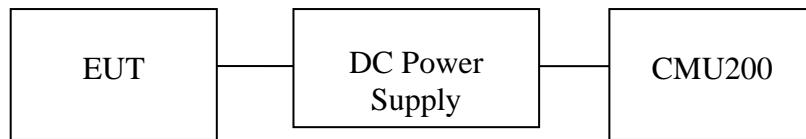
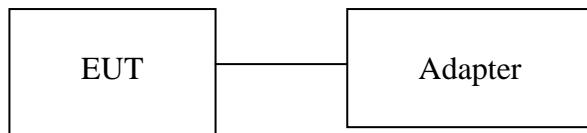


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)



Remote Side

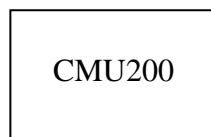


Table 2-1 Equipment Used in

| 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 |
| 2. | DC Power Supply | Agilent | E3640A | MY53140006 | shielded | Un-shielded |

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3. SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|---|--|-----------|
| §2.1046(a) | RF Power Output | Compliant |
| §2.1046(a) §22.913(a)(2) §24.232(c) | ERP/ EIRP measurement | Compliant |
| §2.1049(h) | 99% Occupied Bandwidth | Compliant |
| §2.1051 §22.917(a) §24.238(a) | Out of Band Emissions at Antenna Terminals and Band Edge | Compliant |
| §2.1053 §22.917(a) §24.238(a) | Field Strength of Spurious Radiation | Compliant |
| §2.1055(a)(1) §22.355 §24.235 | Frequency Stability vs. Temperature | Compliant |
| §2.1055(d)(2) §22.355 §24.235 | Frequency Stability vs. Voltage | Compliant |

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Max ERP/EIRP measurement result:

| | dBm | | W |
|----------------|-------|------|-------|
| GSM 850 Band | 25.22 | ERP | 0.333 |
| GSM 1900 Band | 23.04 | EIRP | 0.201 |
| GPRS 850 Band | 25.26 | ERP | 0.336 |
| GPRS 1900 Band | 23.45 | EIRP | 0.221 |
| WCDMA Band II | 21.42 | EIRP | 0.139 |
| WCDMA Band V | 22.07 | ERP | 0.161 |
| HSUPA Band II | 21.19 | EIRP | 0.132 |
| HSUPA Band V | 22.01 | ERP | 0.159 |
| HSDPA Band II | 21.30 | EIRP | 0.135 |
| HSDPA Band V | 22.17 | ERP | 0.165 |

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4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

The list of channel selected to conduct the measurements

GSM/GPRS 850:

Channel Low: AFRCN 128 at 824.2MHz, Channel Mid: AFRCN 190 at 836.6MHz, Channel High: AFRCN 251 at 848.8MHz.

GSM/GPRS 1900:

Channel Low: AFRCN 512 at 1850.2MHz, Channel Mid: AFRCN 661 at 1880.0MHz, Channel High AFRCN 810 at 1909.8MHz

WCDMA/HSPA BII:

Channel Low: UAFRCN 9262 at 1852.4MHz, Channel Mid: UAFRCN 9400 at 1880.0MHz, Channel High: UAFRCN 9538 at 1907.6MHz.

WCDMA/HSPA BV:

Channel Low: UAFRCN 4132 at 826.4MHz, Channel Mid: UAFRCN 4183 at 836.6MHz, Channel High: UAFRCN 4233 at 846.6MHz.

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 and WCDMA Band II / V with power adaptor. The worst-case of H position for GSM 850 and WCDMA/HSPA Band V, E2 position for GPRS 1900 and WCDMA/HSPA Band II were reported.

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5. MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|---|--|
| RF Power Output | +/- 1.42 dB |
| ERP/ EIRP measurement | Vertical Polarization = +/- 4.74dB Horizontal Polarization = +/- 4.62dB |
| 99% Occupied Bandwidth | +/- 123.36 Hz |
| Out of Band Emissions at Antenna Terminals and Band Edge | +/- 1.55 dB |
| Peak to Average Ratio | +/- 1.55 dB |
| Frequency Stability vs. Temperature | +/- 123.36 Hz |
| Frequency Stability vs. Voltage | +/- 123.36 Hz |
| Temperature | +/- 0.8 °C |
| Humidity | +/- 4.7 % |
| DC / AC Power Source | DC= +/- 1%, AC=+/- 0.2% |

Radiated Spurious Emission:

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

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

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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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 limited to 2W

FCC 24.232(c) Equipment must employ means to limit the power to the minimum necessary for successful communication.

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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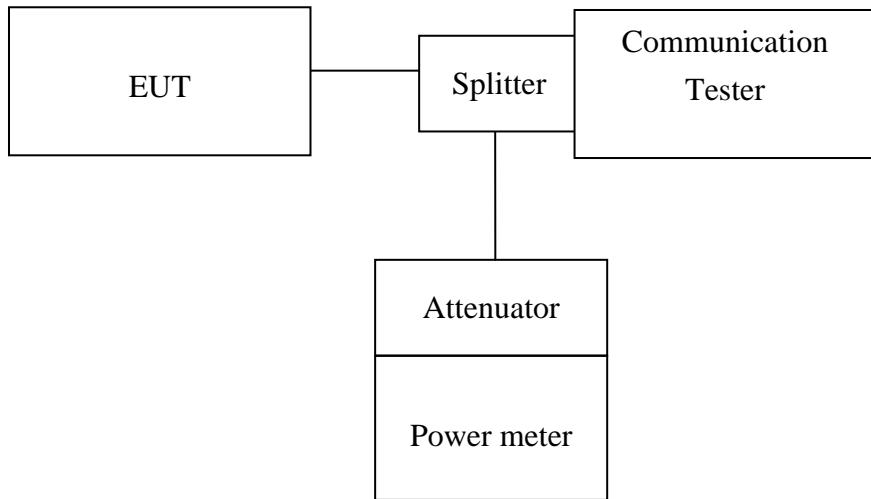
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6.2. Test Set-up:



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. TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results

Necessary Communication complying with 24.232 (c)

Set CMW200 (base-station simulator) MS Signal with packet data submenu; SLOT Configuration

Set appropriate level to verify if or not power on mobile station's link with simulator still exists.

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 (GMSK; 8-PSK)

Result:

| EUT Mode | Frequency (MHz) | CH | Peak Power (dBm) | Average Burst Power (dBm) |
|----------|-----------------|-----|------------------|---------------------------|
| GSM 850 | 824.2 | 128 | 32.50 | 32.40 |
| | 836.6 | 190 | 32.50 | 32.30 |
| | 848.8 | 251 | 32.40 | 32.30 |

| EUT Mode | Frequency (MHz) | CH | Peak Power (dBm) | Average Burst Power (dBm) |
|----------|-----------------|-----|------------------|---------------------------|
| GSM 1900 | 1850.2 | 512 | 29.40 | 29.30 |
| | 1880.0 | 661 | 29.20 | 29.00 |
| | 1909.8 | 810 | 29.10 | 28.90 |

| EUT Mode | Frequency (MHz) | CH | Peak Power (4DN 1UP) Class 8 (dBm) | Average Burst Power (4DN 1UP) Class 8 (dBm) | Peak Power (4DN 2UP) Class 10 (dBm) | Average Burst Power (4DN 2UP) Class 10 (dBm) |
|----------|-----------------|-----|------------------------------------|---|-------------------------------------|--|
| GPRS 850 | 824.2 | 128 | 32.50 | 32.30 | 31.90 | 31.70 |
| | 836.6 | 190 | 32.50 | 32.30 | 31.90 | 31.70 |
| | 848.8 | 251 | 32.40 | 32.30 | 31.80 | 31.70 |

| EUT Mode | Frequency (MHz) | CH | Peak Power (4DN 3UP) Class 12 (dBm) | Average Burst Power (4DN 3UP) Class 12 (dBm) | Peak Power (4DN 4UP) Class 12 (dBm) | Average Burst Power (4DN 4UP) Class 12 (dBm) |
|----------|-----------------|-----|-------------------------------------|--|-------------------------------------|--|
| GPRS 850 | 824.2 | 128 | 30.30 | 30.10 | 29.20 | 29.10 |
| | 836.6 | 190 | 30.30 | 30.10 | 29.30 | 29.20 |
| | 848.8 | 251 | 30.20 | 30.10 | 29.30 | 29.10 |

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| EUT Mode | Frequency (MHz) | CH | Peak Power (4DN 1UP) Class 8 (dBm) | Average Burst Power (4DN 1UP) Class 8 (dBm) | Peak Power (4DN 2UP) Class 10 (dBm) | Average Burst Power (4DN 2UP) Class 10 (dBm) |
|-----------|--------------------|-----|---|---|--|--|
| GPRS 1900 | 1850.2 | 512 | 29.40 | 29.20 | 28.90 | 28.70 |
| | 1880.0 | 661 | 29.20 | 29.00 | 28.60 | 28.40 |
| | 1909.8 | 810 | 29.10 | 28.90 | 28.50 | 28.30 |

| EUT Mode | Frequency (MHz) | CH | Peak Power (4DN 3UP) Class 12 (dBm) | Average Burst Power (4DN 3UP) Class 12 (dBm) | Peak Power (4DN 4UP) Class 12 (dBm) | Average Burst Power (4DN 4UP) Class 12 (dBm) |
|-----------|--------------------|-----|--|--|--|--|
| GPRS 1900 | 1850.2 | 512 | 27.40 | 27.20 | 26.30 | 26.10 |
| | 1880.0 | 661 | 27.10 | 26.90 | 26.10 | 25.90 |
| | 1909.8 | 810 | 27.00 | 26.90 | 26.00 | 25.80 |

Cable loss offset:1dB

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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) | Avg. Power (dBm) |
|---------------|-----------------|------|------------------|------------------|
| WCDMA Band II | 1852.4 | 9262 | 25.83 | 22.53 |
| | 1880.0 | 9400 | 25.64 | 22.48 |
| | 1907.6 | 9538 | 25.12 | 22.08 |

| EUT Mode | Frequency (MHz) | CH | Peak Power (dBm) | Avg. Power (dBm) |
|--------------|-----------------|------|------------------|------------------|
| WCDMA Band V | 826.4 | 4132 | 25.88 | 22.91 |
| | 836.6 | 4183 | 25.88 | 22.91 |
| | 846.6 | 4233 | 25.71 | 22.75 |

| EUT Mode | Frequency (MHz) | CH | Peak Power (dBm) | Avg. Power (dBm) |
|---------------|-----------------|------|------------------|------------------|
| HSDPA Band II | 1852.4 | 9262 | 24.96 | 22.16 |
| | 1880.0 | 9400 | 24.75 | 21.08 |
| | 1907.6 | 9538 | 24.41 | 20.79 |

| EUT Mode | Frequency (MHz) | CH | Peak Power (dBm) | Avg. Power (dBm) |
|--------------|-----------------|------|------------------|------------------|
| HSDPA Band V | 826.4 | 4132 | 25.02 | 21.51 |
| | 836.6 | 4183 | 24.99 | 21.50 |
| | 846.6 | 4233 | 24.89 | 21.39 |

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| EUT Mode | Frequency (MHz) | CH | Peak Power (dBm) | Avg. Power (dBm) |
|---------------|-----------------|------|------------------|------------------|
| HSUPA Band II | 1852.4 | 9262 | 24.95 | 21.17 |
| | 1880.0 | 9400 | 24.84 | 21.02 |
| | 1907.6 | 9538 | 24.41 | 20.72 |

| EUT Mode | Frequency (MHz) | CH | Peak Power (dBm) | Avg. Power (dBm) |
|--------------|-----------------|------|------------------|------------------|
| HSUPA Band V | 826.4 | 4132 | 25.05 | 21.47 |
| | 836.6 | 4183 | 25.03 | 21.45 |
| | 846.6 | 4233 | 24.84 | 21.32 |

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

Cable loss offset: 1dB

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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: β values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

| Sub-test | β_c | β_d | β_d (SF) | β_c/β_d | β_{HS} (Note1, 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.

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Results:

| Mode | Sub-test | Avg. Power (dBm) Channel | | | Power Class 3 Limita- tion (dBm) | Comments |
|---------------|----------|-----------------------------|-------|-------|-------------------------------------|----------|
| | | 9262 | 9400 | 9538 | | |
| HSDPA (B2) | 1 | 22.70 | 22.37 | 21.94 | 20.3dBm – 25.7dBm | Pass |
| | 2 | 22.41 | 22.34 | 21.93 | 20.3dBm – 25.7dBm | Pass |
| | 3 | 22.22 | 21.92 | 21.41 | 19.8dBm – 25.7dBm | Pass |
| | 4 | 22.29 | 21.93 | 21.53 | 19.8dBm – 25.7dBm | Pass |

| Mode | Sub-test | Avg. Power (dBm) Channel | | | Power Class 3 Limita- tion (dBm) | Comments |
|---------------|----------|-----------------------------|-------|-------|-------------------------------------|----------|
| | | 4132 | 4183 | 4233 | | |
| HSDPA (B5) | 1 | 22.70 | 22.77 | 22.87 | 20.3dBm – 25.7dBm | Pass |
| | 2 | 22.84 | 22.80 | 22.62 | 20.3dBm – 25.7dBm | Pass |
| | 3 | 22.24 | 22.29 | 22.38 | 19.8dBm – 25.7dBm | Pass |
| | 4 | 22.29 | 22.33 | 22.44 | 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: β values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

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

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

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Results:

| Mode | Sub-test | Avg. Power (dBm) Channel | | | Power Class 3 Limita- tion (dBm) | Comments |
|-----------|----------|-----------------------------|-------|-------|-------------------------------------|----------|
| | | 9262 | 9400 | 9538 | | |
| HSUPA(B2) | 1 | 22.45 | 22.46 | 22.02 | 18.8dBm – 25.7dBm | Pass |
| | 2 | 20.50 | 20.53 | 20.06 | 16.8dBm – 25.7dBm | Pass |
| | 3 | 21.51 | 21.48 | 21.10 | 17.8dBm – 25.7dBm | Pass |
| | 4 | 20.63 | 20.58 | 20.10 | 16.8dBm – 25.7dBm | Pass |
| | 5 | 22.34 | 22.32 | 21.93 | 18.8dBm – 25.7dBm | Pass |

| Mode | Sub-test | Avg. Power (dBm) Channel | | | Power Class 3 Limita- tion (dBm) | Comments |
|-----------|----------|-----------------------------|-------|-------|-------------------------------------|----------|
| | | 4132 | 4183 | 4233 | | |
| HSUPA(B5) | 1 | 22.87 | 22.84 | 22.67 | 18.8dBm – 25.7dBm | Pass |
| | 2 | 20.93 | 20.92 | 20.71 | 16.8dBm – 25.7dBm | Pass |
| | 3 | 21.91 | 21.90 | 21.75 | 17.8dBm – 25.7dBm | Pass |
| | 4 | 20.98 | 20.98 | 20.79 | 16.8dBm – 25.7dBm | Pass |
| | 5 | 22.73 | 22.67 | 22.56 | 18.8dBm – 25.7dBm | Pass |

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6.5.2. Minimum Communications Power Measurement

PCS 1900 band

| PCL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--------------------|----|----|------|------|------|------|------|------|------|
| Output power (dBm) | 28 | 27 | 25.1 | 23.1 | 21.2 | 19.2 | 17.2 | 15.1 | 13.1 |

| PCL | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|--------------------|------|-----|----|-----|-----|-----|------|
| Output power (dBm) | 11.2 | 9.1 | 7 | 4.9 | 2.9 | 1.4 | -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/HSUPA band II, V

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

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7. ERP, EIRP MEASUREMENT

7.1. Standard Applicable:

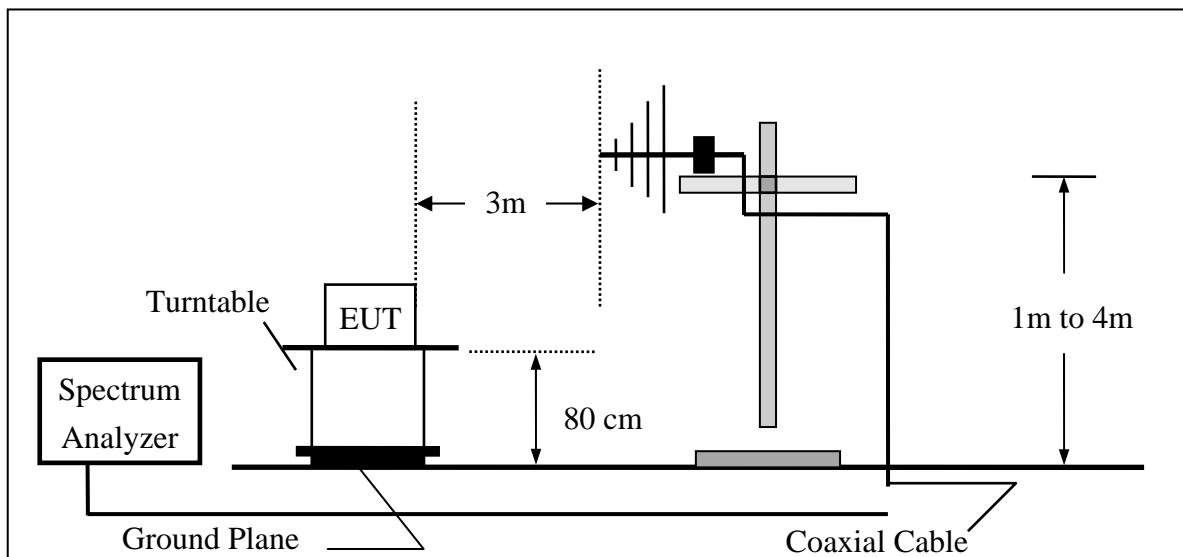
According to FCC §2.1046

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

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

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

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



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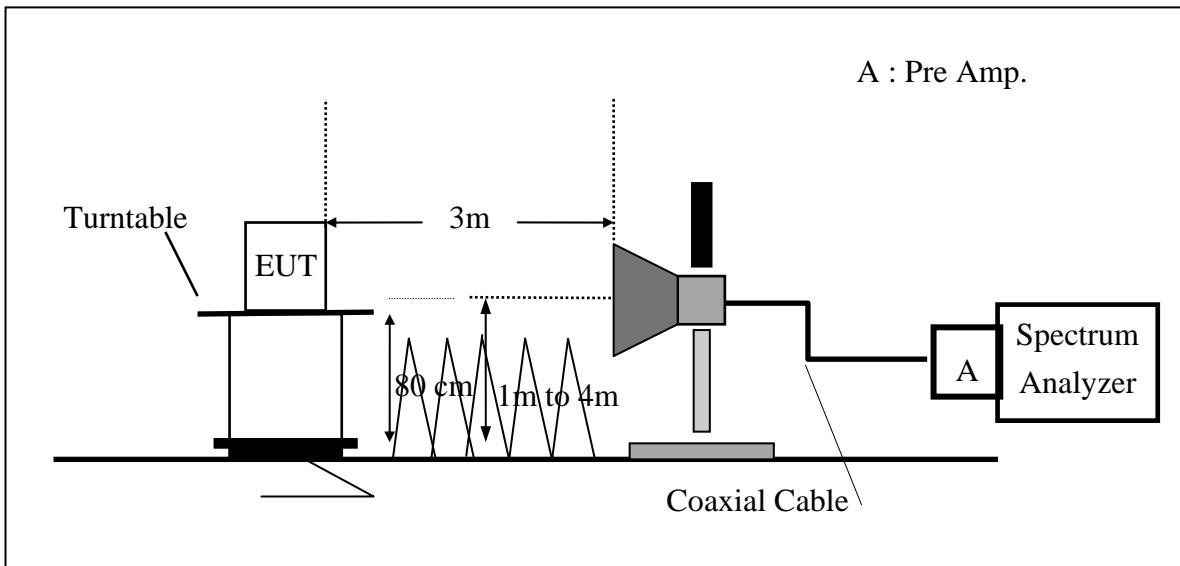
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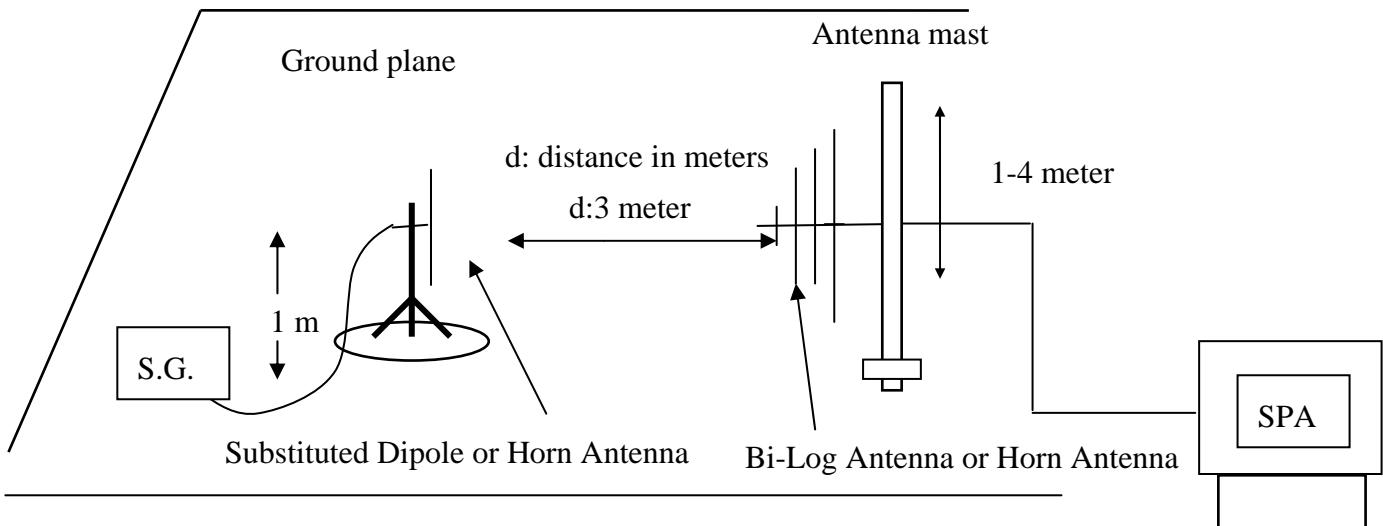
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(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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7.3. Measurement Procedure:

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

During the measurement, the EUT was 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 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:

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

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

Spectrum setting:

1. Detector = Peak, marker the highest value of the detector by maximum hold, set RBW wide enough to capture the entire signal of emission, and $\text{VBW} >= 3 \times \text{RBW}$.

Or,

2. KDB 971168 D01 Power Meas License Digital Systems v01 is adopted, and the procedure as lists under item 4, Measurement of the Average Power over the Fundamental Signal Bandwidth, is followed to set correspondingly for the acquisition of proper measurement data.

Set frequency = nominal signal center frequency;

Set span = 2 X occupied BW;

Set RBW $\approx 1\text{--}5\%$ of the span, not to exceed 1 MHz

Set VBW = 3 x RBW;

Select average power (RMS) detector

Set sweep time and number of measurement points to achieve a minimum of 1 millisecond/pt integration time (ex. Point = 601points, then sweet time = $601 \times 10^{-3} = 6\text{ s}$).

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Activate trace averaging routine over a minimum of 10 sweeps;
Activate marker/span pair and set span = signal or channel bandwidth;
Activate the band/interval power marker function;
Record the band power level;

Record adjusted value as the average signal power level. Then activate the occupied bandwidth measurement function.

7.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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7.5. Measurement Result: (Peak) –using option of peak measurement

| EUT | | | Measurement | | | | | |
|----------------|-----------------------|-----|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Fundamental Frequency | CH | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP | Limit |
| | MHz | | V/H | dBm | dBd | dB | dBm | dBm |
| GSM 850 | 824.2 | 128 | V | 24.12 | 3.91 | -3.03 | 24.99 | 38.45 |
| | | | H | 20.48 | 3.91 | -3.03 | 21.35 | 38.45 |
| | 836.6 | 190 | V | 24.40 | 3.89 | -3.07 | 25.22 | 38.45 |
| | | | H | 20.81 | 3.89 | -3.07 | 21.63 | 38.45 |
| | 848.8 | 251 | V | 23.98 | 3.87 | -3.11 | 24.74 | 38.45 |
| | | | H | 19.96 | 3.87 | -3.11 | 20.73 | 38.45 |

Remark :

- (1) The RBW,VBW of SPA for measurement RBW=300 kHz, VBW=1MHz

| EUT | | | Measurement | | | | | |
|----------------|-----------------------|-----|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Fundamental Frequency | CH | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP | Limit |
| | MHz | | V/H | dBm | dBi | dB | dBm | dBm |
| GSM 1900 | 1850.2 | 512 | V | 19.60 | 5.08 | -4.67 | 20.01 | 33.00 |
| | | | H | 22.63 | 5.08 | -4.67 | 23.04 | 33.00 |
| | 1880.0 | 661 | V | 18.83 | 5.00 | -4.70 | 19.13 | 33.00 |
| | | | H | 22.56 | 5.00 | -4.70 | 22.86 | 33.00 |
| | 1909.8 | 810 | V | 18.59 | 4.92 | -4.74 | 18.77 | 33.00 |
| | | | H | 20.25 | 4.92 | -4.74 | 20.43 | 33.00 |

Remark :

- (1) The RBW,VBW of SPA for measurement RBW=300 kHz, VBW=1MHz

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| EUT | | | Measurement | | | | | |
|----------------|-----------------------|-----|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Fundamental Frequency | CH | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP | Limit |
| | MHz | | V/H | dBm | dBd | dB | dBm | dBm |
| GPRS 850 | 824.20 | 128 | V | 24.35 | 3.91 | -3.03 | 25.23 | 38.45 |
| | | | H | 20.48 | 3.91 | -3.03 | 21.36 | 38.45 |
| | 836.60 | 190 | V | 24.44 | 3.89 | -3.07 | 25.26 | 38.45 |
| | | | H | 20.84 | 3.89 | -3.07 | 21.66 | 38.45 |
| | 848.80 | 251 | V | 24.17 | 3.87 | -3.11 | 24.94 | 38.45 |
| | | | H | 20.04 | 3.87 | -3.11 | 20.81 | 38.45 |

Remark :

(1) The RBW,VBW of SPA for measurement RBW=300 kHz,, VBW=1MHz

| EUT | | | Measurement | | | | | |
|----------------|-----------------------|-----|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Fundamental Frequency | CH | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP | Limit |
| | MHz | | V/H | dBm | dB | dB | dBm | dBm |
| GPRS 1900 | 1850.2 | 512 | V | 20.24 | 5.08 | -4.67 | 20.65 | 33.00 |
| | | | H | 22.76 | 5.08 | -4.67 | 23.17 | 33.00 |
| | 1880.0 | 661 | V | 18.95 | 5.00 | -4.7 | 19.25 | 33.00 |
| | | | H | 23.15 | 5.00 | -4.7 | 23.45 | 33.00 |
| | 1909.8 | 810 | V | 18.72 | 4.92 | -4.74 | 18.90 | 33.00 |
| | | | H | 20.39 | 4.92 | -4.74 | 20.57 | 33.00 |

Remark :

(1) The RBW,VBW of SPA for measurement RBW=300 kHz,, VBW=1MHz

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| EUT | | | Measurement | | | | | |
|----------------|-----------------------|------|--------------|-------------|--------------|------------|-------|-------|
| Operation Band | Fundamental Frequency | CH | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP | Limit |
| | MHz | | V/H | dBm | dBi | dB | dBm | dBm |
| WCDMA Band II | 1852.4 | 9262 | V | 19.41 | 5.08 | -4.67 | 19.81 | 33.00 |
| | | | H | 20.83 | 5.08 | -4.67 | 21.23 | 33.00 |
| | 1880.0 | 9400 | V | 19.38 | 5.01 | -4.70 | 19.69 | 33.00 |
| | | | H | 21.12 | 5.00 | -4.70 | 21.42 | 33.00 |
| | 1907.6 | 9538 | V | 17.98 | 4.93 | -4.73 | 18.17 | 33.00 |
| | | | H | 18.90 | 4.93 | -4.74 | 19.10 | 33.00 |

Remark :

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

| EUT | | | Measurement | | | | | |
|----------------|-----------------------|------|--------------|-------------|--------------|------------|-------|-------|
| Operation Band | Fundamental Frequency | CH | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP | Limit |
| | MHz | | V/H | dBm | dBd | dB | dBm | dBm |
| WCDMA Band V | 826.4 | 4132 | V | 20.79 | 3.90 | -3.03 | 21.66 | 38.45 |
| | | | H | 16.90 | 3.90 | -3.03 | 17.77 | 38.45 |
| | 836.6 | 4183 | V | 21.24 | 3.89 | -3.07 | 22.07 | 38.45 |
| | | | H | 17.39 | 3.89 | -3.07 | 18.21 | 38.45 |
| | 846.6 | 4233 | V | 20.65 | 3.88 | -3.10 | 21.43 | 38.45 |
| | | | H | 16.03 | 3.88 | -3.10 | 16.80 | 38.45 |

Remark :

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

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| EUT | | | Measurement | | | | | |
|----------------|-----------------------|------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Fundamental Frequency | CH | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP | Limit |
| | MHz | | V/H | dBm | dBi | dB | dBm | dBm |
| HSUPA Band II | 1852.4 | 9262 | V | 18.84 | 5.07 | -4.67 | 19.24 | 33.00 |
| | | | H | 20.76 | 5.08 | -4.67 | 21.16 | 33.00 |
| | 1880.0 | 9400 | V | 18.34 | 5.00 | -4.7 | 18.64 | 33.00 |
| | | | H | 20.89 | 5.00 | -4.7 | 21.19 | 33.00 |
| | 1907.6 | 9538 | V | 17.95 | 4.93 | -4.73 | 18.15 | 33.00 |
| | | | H | 18.86 | 4.93 | -4.74 | 19.05 | 33.00 |

Remark :

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

| EUT | | | Measurement | | | | | |
|----------------|-----------------------|------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Fundamental Frequency | CH | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP | Limit |
| | MHz | | V/H | dBm | dBd | dB | dBm | dBm |
| HSUPA Band V | 826.4 | 4132 | V | 20.77 | 3.90 | -3.03 | 21.64 | 38.45 |
| | | | H | 16.83 | 3.90 | -3.03 | 17.70 | 38.45 |
| | 836.6 | 4183 | V | 21.19 | 3.89 | -3.07 | 22.01 | 38.45 |
| | | | H | 17.34 | 3.89 | -3.07 | 18.16 | 38.45 |
| | 846.6 | 4233 | V | 20.50 | 3.88 | -3.1 | 21.28 | 38.45 |
| | | | H | 15.8 | 3.88 | -3.1 | 16.58 | 38.45 |

Remark :

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

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| EUT | | | Measurement | | | | | |
|----------------|-----------------------|------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Fundamental Frequency | CH | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP | Limit |
| | MHz | | V/H | dBm | dBi | dB | dBm | dBm |
| HSDPA Band II | 1852.4 | 9262 | V | 18.61 | 5.08 | -4.67 | 19.02 | 33.00 |
| | | | H | 20.77 | 5.08 | -4.67 | 21.18 | 33.00 |
| | 1880.0 | 9400 | V | 18.21 | 5.01 | -4.7 | 18.52 | 33.00 |
| | | | H | 21.00 | 5.00 | -4.7 | 21.30 | 33.00 |
| | 1907.6 | 9538 | V | 17.71 | 4.93 | -4.74 | 17.91 | 33.00 |
| | | | H | 18.89 | 4.93 | -4.73 | 19.09 | 33.00 |

Remark :

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

| EUT | | | Measurement | | | | | |
|----------------|-----------------------|------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Fundamental Frequency | CH | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP | Limit |
| | MHz | | V/H | dBm | dBd | dB | dBm | dBm |
| HSDPA Band V | 826.4 | 4132 | V | 20.92 | 3.90 | -3.03 | 21.79 | 38.45 |
| | | | H | 17.14 | 3.90 | -3.03 | 18.01 | 38.45 |
| | 836.6 | 4183 | V | 21.35 | 3.89 | -3.07 | 22.17 | 38.45 |
| | | | H | 17.41 | 3.89 | -3.06 | 18.24 | 38.45 |
| | 846.6 | 4233 | V | 20.92 | 3.88 | -3.10 | 21.70 | 38.45 |
| | | | H | 16.07 | 3.87 | -3.10 | 16.85 | 38.45 |

Remark :

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

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8. OCCUPIED BANDWIDTH MEASUREMENT

8.1. Standard Applicable:

According to §FCC 2.1049 (99%)

8.2. Test Set-up:

Refer to section 6.2 in this report

8.3. Measurement Procedure:

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

8.4. Measurement Equipment Used:

Refer to section 2.4 in this report

8.5. Measurement Result:

Refer to next pages.

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| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|-----------------|------------------------|-----------|----------------------------|
| GSM 850 | 824.20 | 128 | 0.241 |
| | 836.60 | 190 | 0.245 |
| | 848.80 | 251 | 0.248 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|-----------------|------------------------|-----------|----------------------------|
| GSM 1900 | 1850.20 | 512 | 0.243 |
| | 1880.00 | 661 | 0.245 |
| | 1909.80 | 810 | 0.244 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|-----------------|------------------------|-----------|----------------------------|
| GPRS 850 | 824.20 | 128 | 0.247 |
| | 836.60 | 190 | 0.249 |
| | 848.80 | 251 | 0.245 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|-----------------|------------------------|-----------|----------------------------|
| GPRS 1900 | 1850.20 | 512 | 0.245 |
| | 1880.00 | 661 | 0.243 |
| | 1909.80 | 810 | 0.241 |

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| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|-----------------|------------------------|-----------|----------------------------|
| WCDMA II | 1852.40 | 9262 | 4.1417 |
| | 1880.00 | 9400 | 4.1505 |
| | 1907.60 | 9538 | 4.1394 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|-----------------|------------------------|-----------|----------------------------|
| WCDMA V | 826.40 | 4132 | 4.1587 |
| | 836.00 | 4183 | 4.1609 |
| | 846.60 | 4233 | 4.1542 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|-----------------|------------------------|-----------|----------------------------|
| HSDPA II | 1852.40 | 9262 | 4.1552 |
| | 1880.00 | 9400 | 4.1301 |
| | 1907.60 | 9538 | 4.1483 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|-----------------|------------------------|-----------|----------------------------|
| HSDPA V | 826.40 | 4132 | 4.1604 |
| | 836.60 | 4183 | 4.1558 |
| | 846.60 | 4233 | 4.1837 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|-----------------|------------------------|-----------|----------------------------|
| HSUPA II | 1852.40 | 9262 | 4.1508 |
| | 1880.00 | 9400 | 4.1653 |
| | 1907.60 | 9538 | 4.1383 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|-----------------|------------------------|-----------|----------------------------|
| HSUPA V | 826.40 | 4132 | 4.1577 |
| | 836.60 | 4183 | 4.1490 |
| | 846.60 | 4233 | 4.1576 |

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Figure 8-1: GSM 850 Channel Low

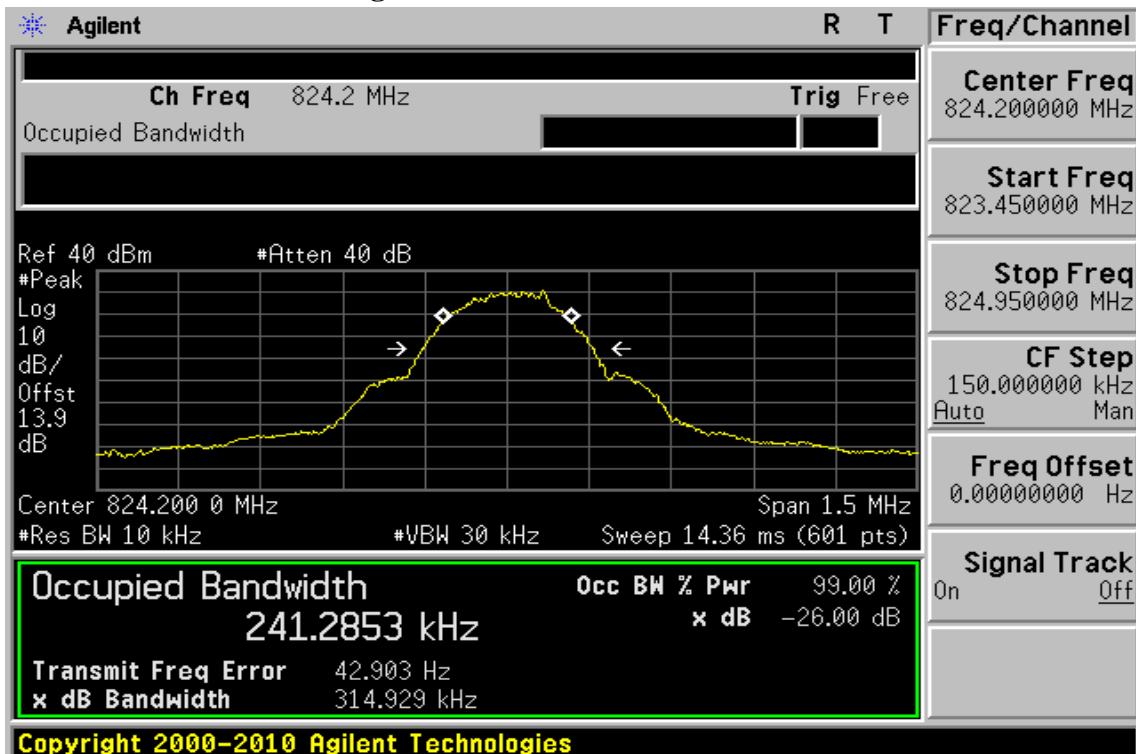
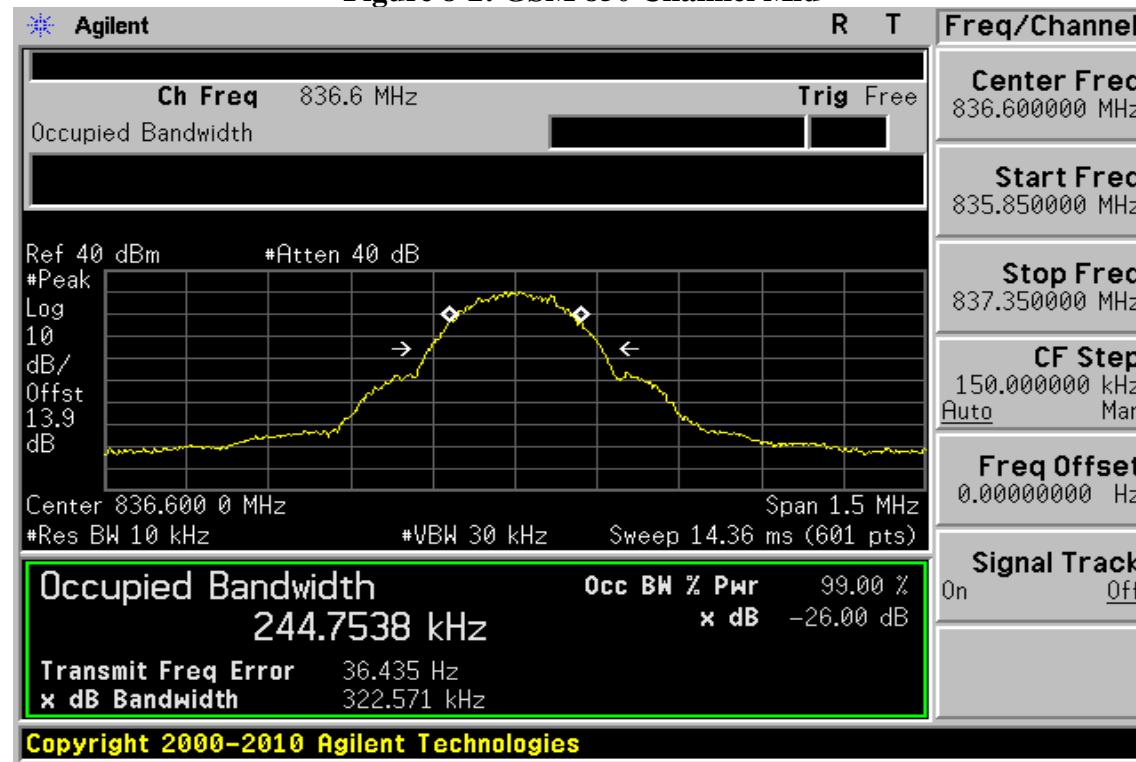


Figure 8-2: GSM 850 Channel Mid



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Figure 8-3: GSM 850 Channel High

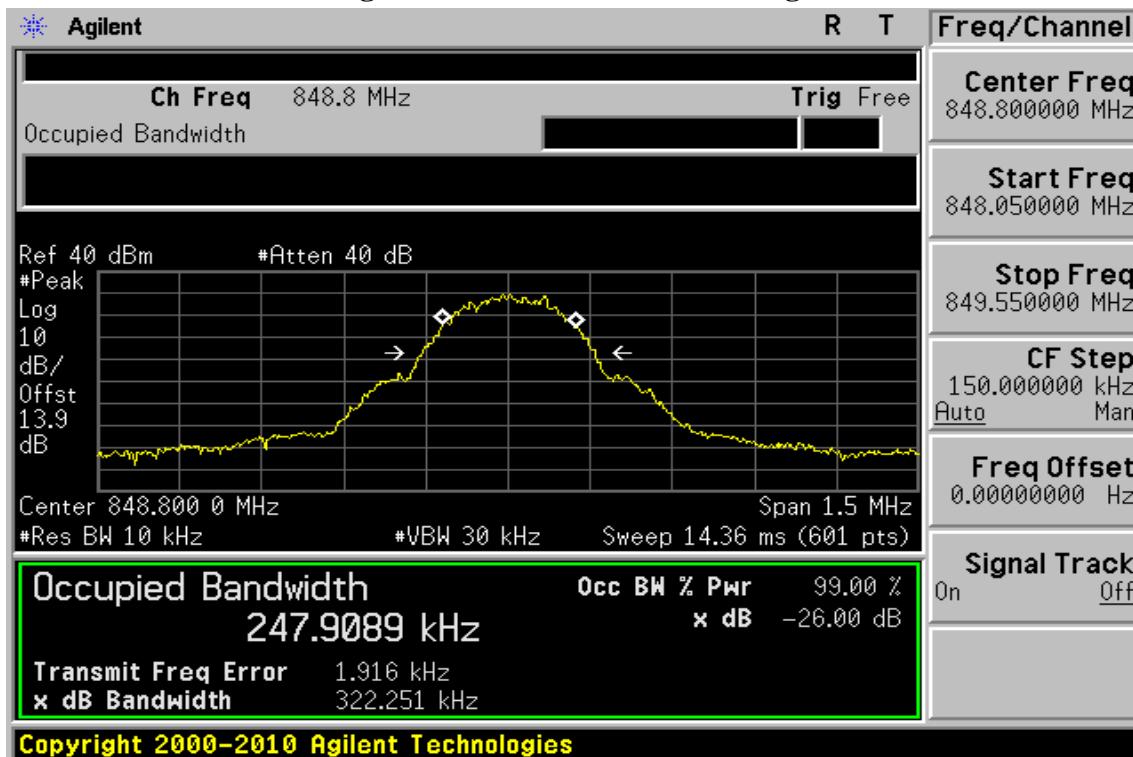
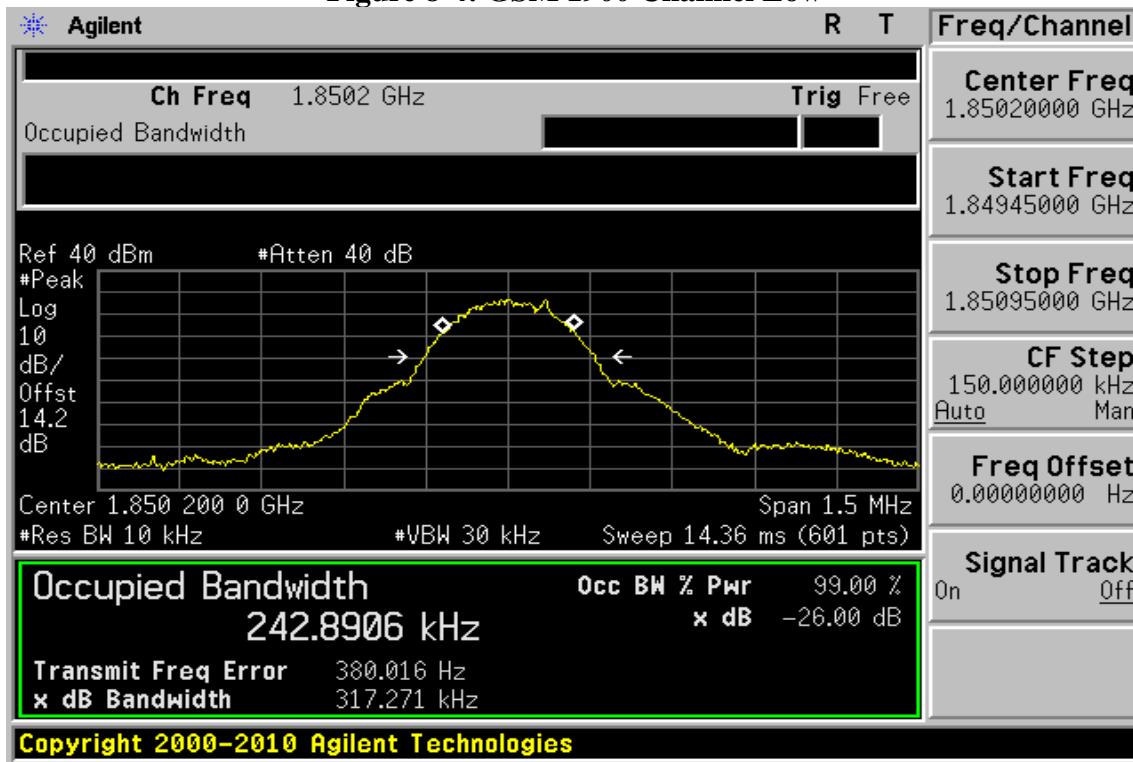


Figure 8-4: GSM 1900 Channel Low



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Figure 8-5: GSM 1900 Channel Mid

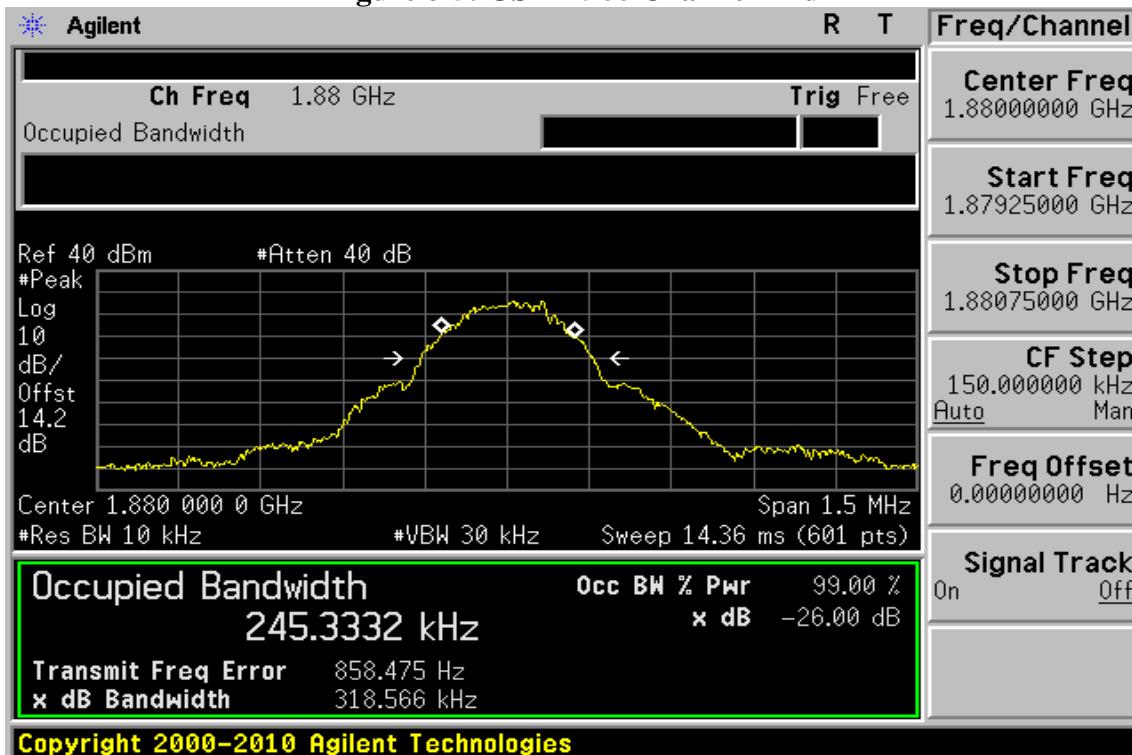
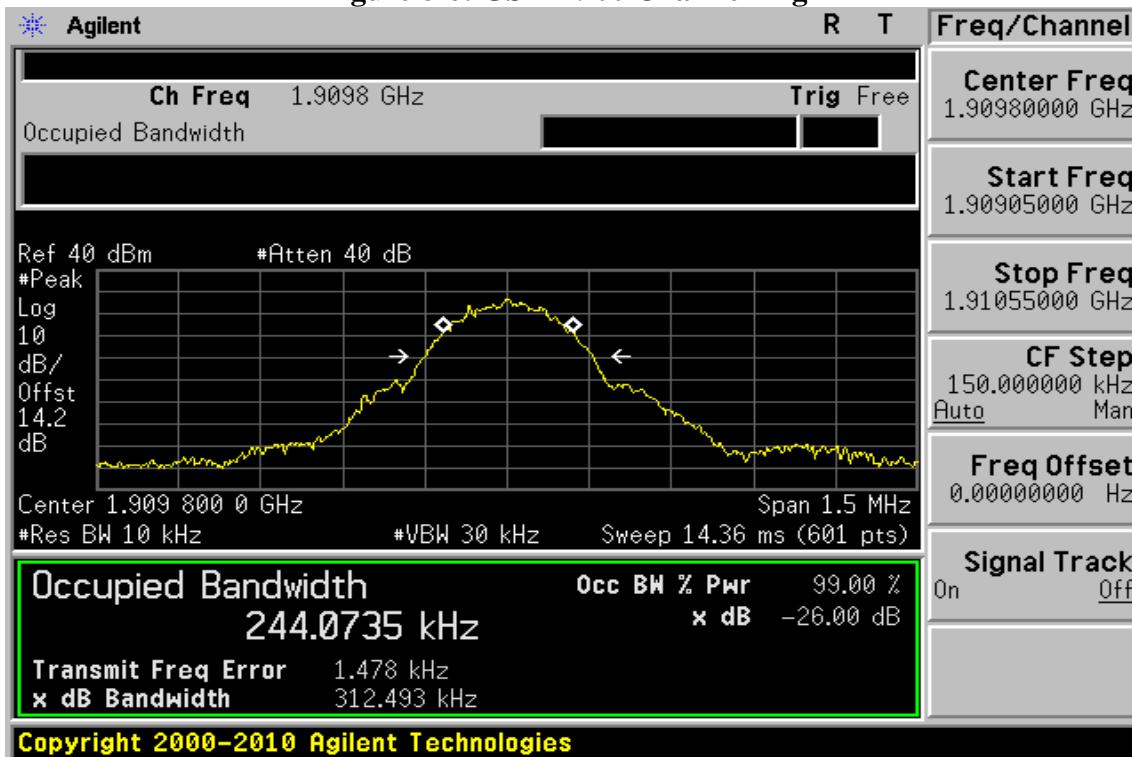


Figure 8-6: GSM 1900 Channel High



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Figure 8-7: GPRS 850 Channel Low

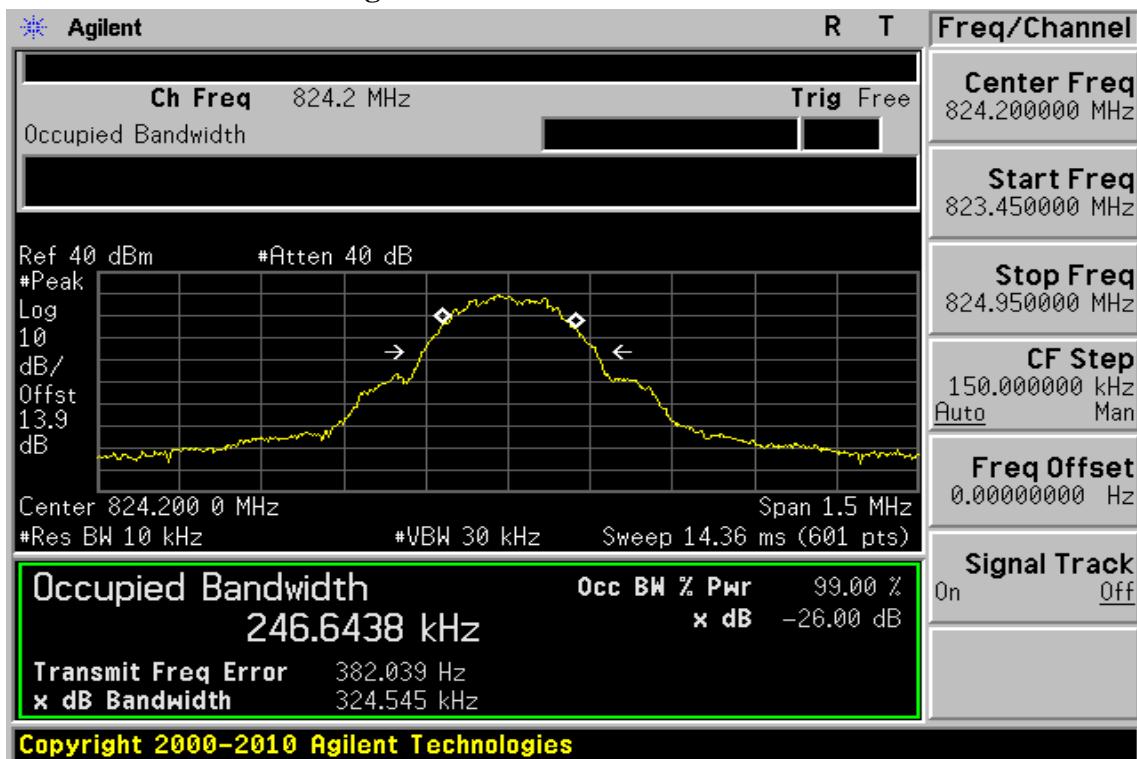
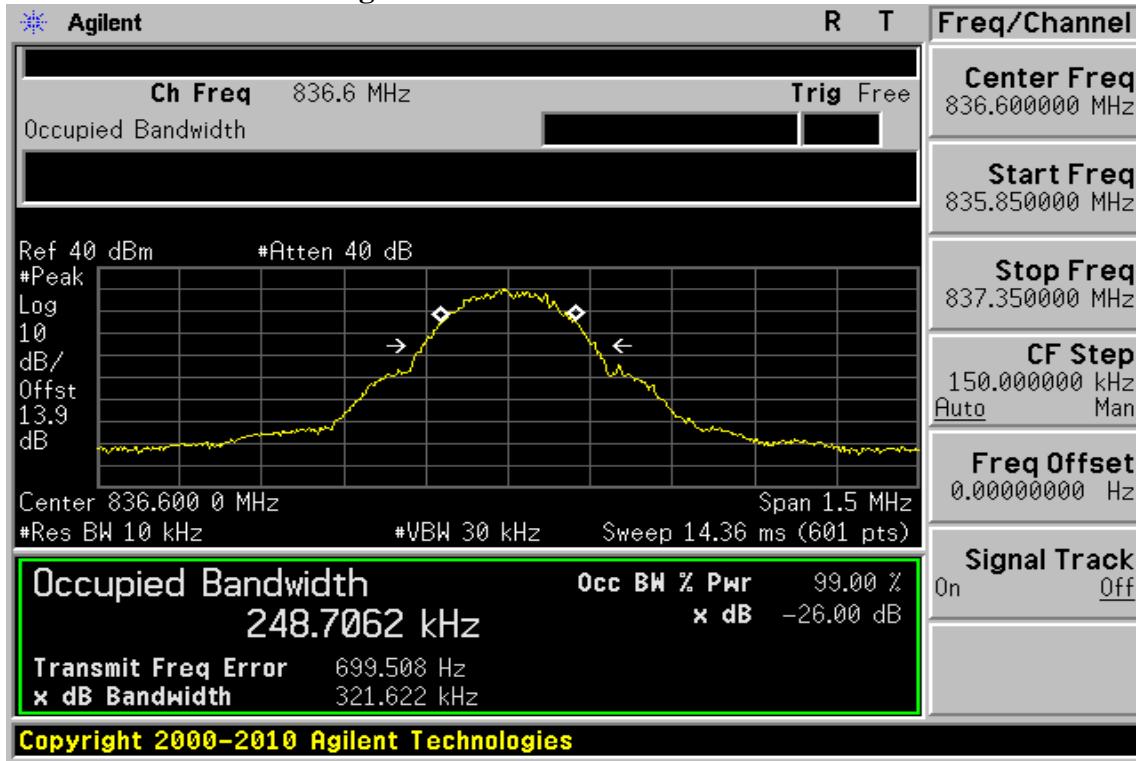


Figure 8-8: GPRS 850 Channel Mid



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GPRS Figure 8-9: GPRS 850 Channel High

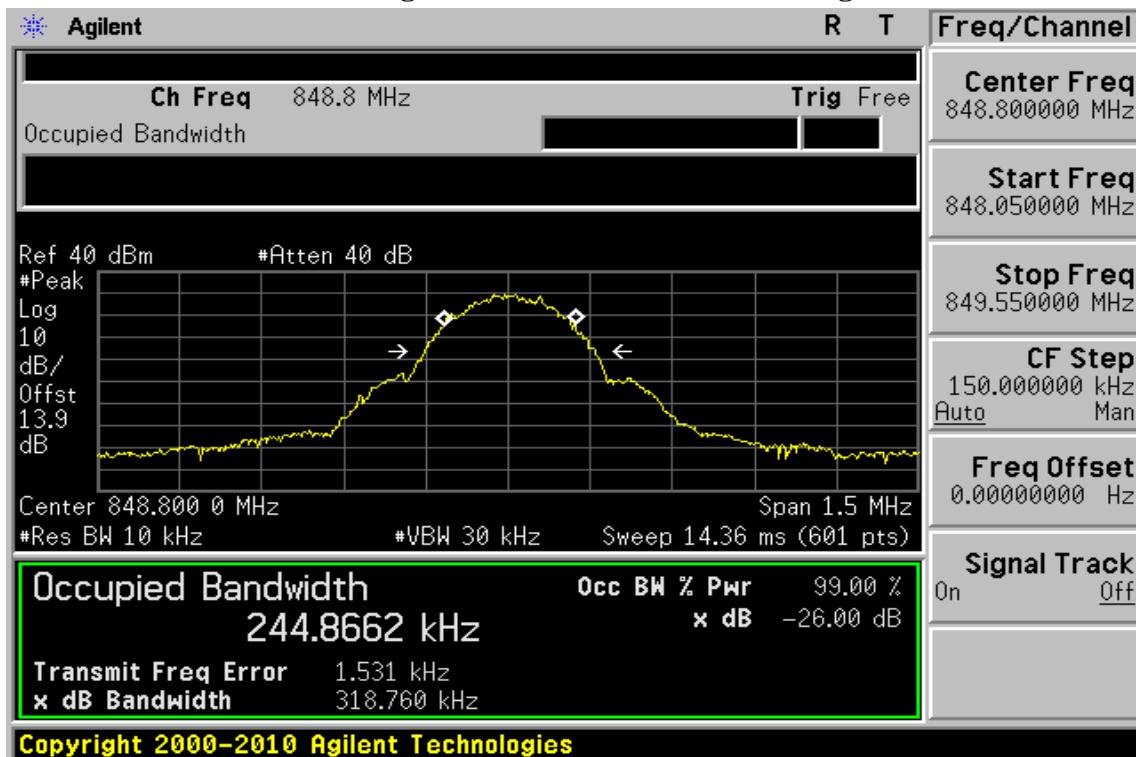
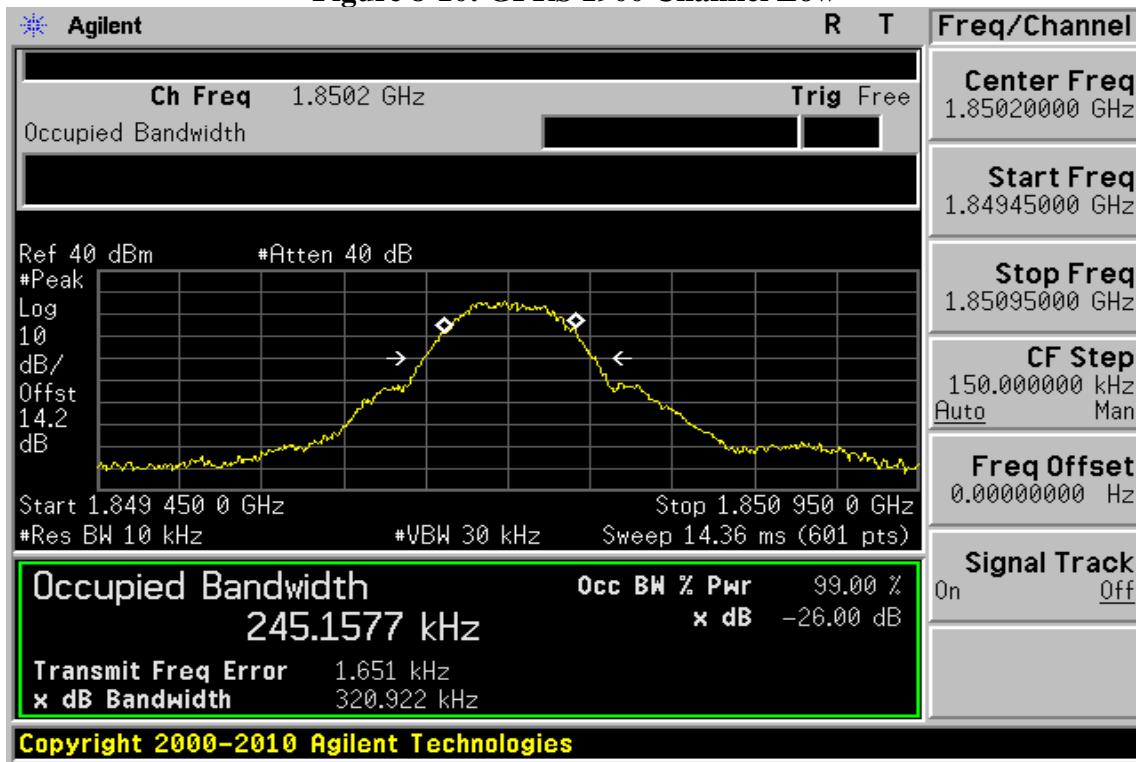


Figure 8-10: GPRS 1900 Channel Low



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Figure 8-11: GPRS 1900 Channel Mid

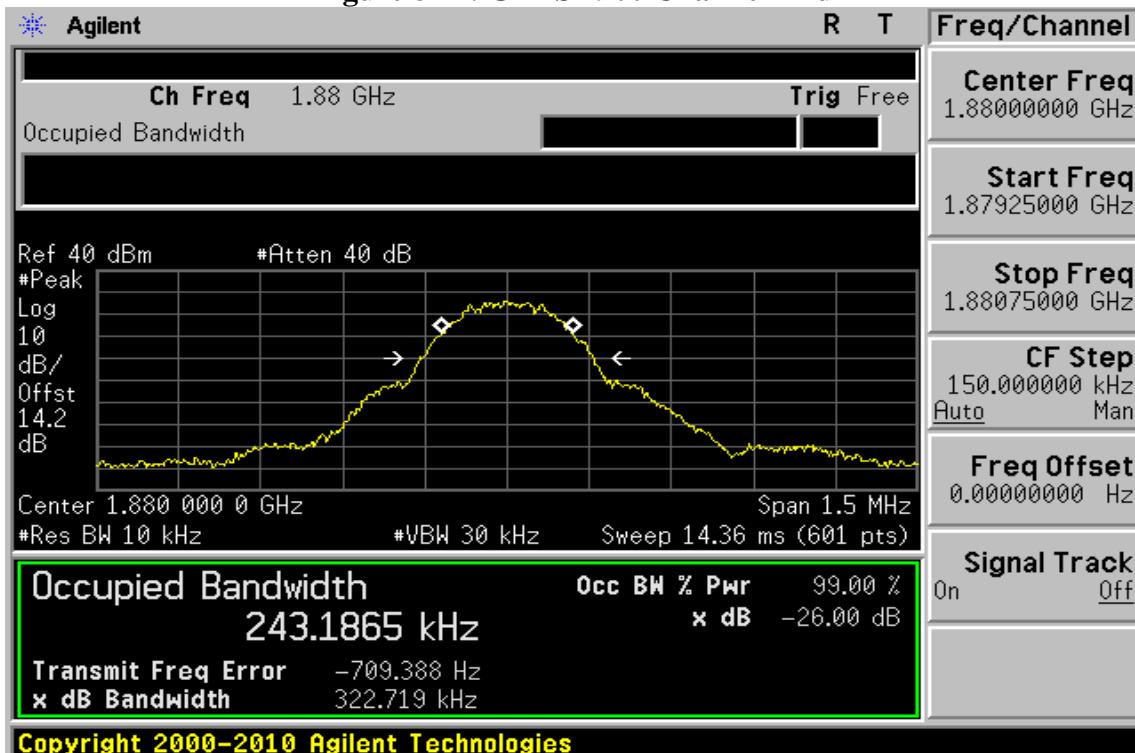
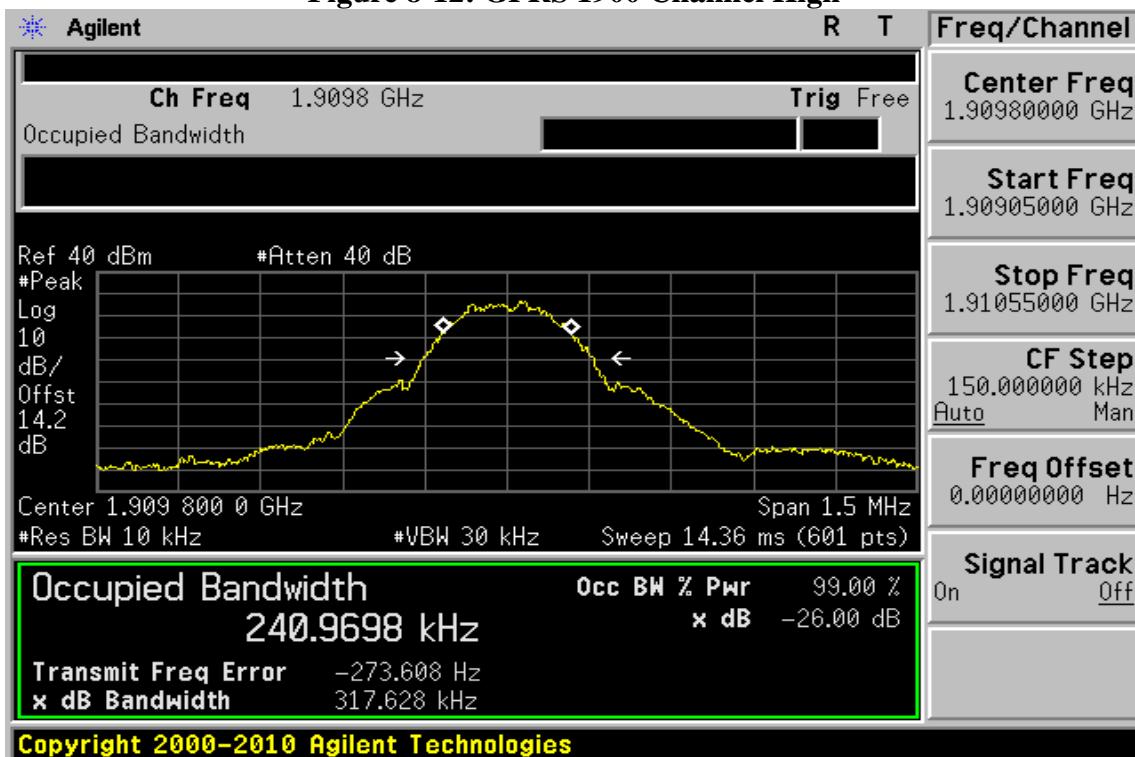


Figure 8-12: GPRS 1900 Channel High



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Figure 8-13: WCDMA II Channel Low

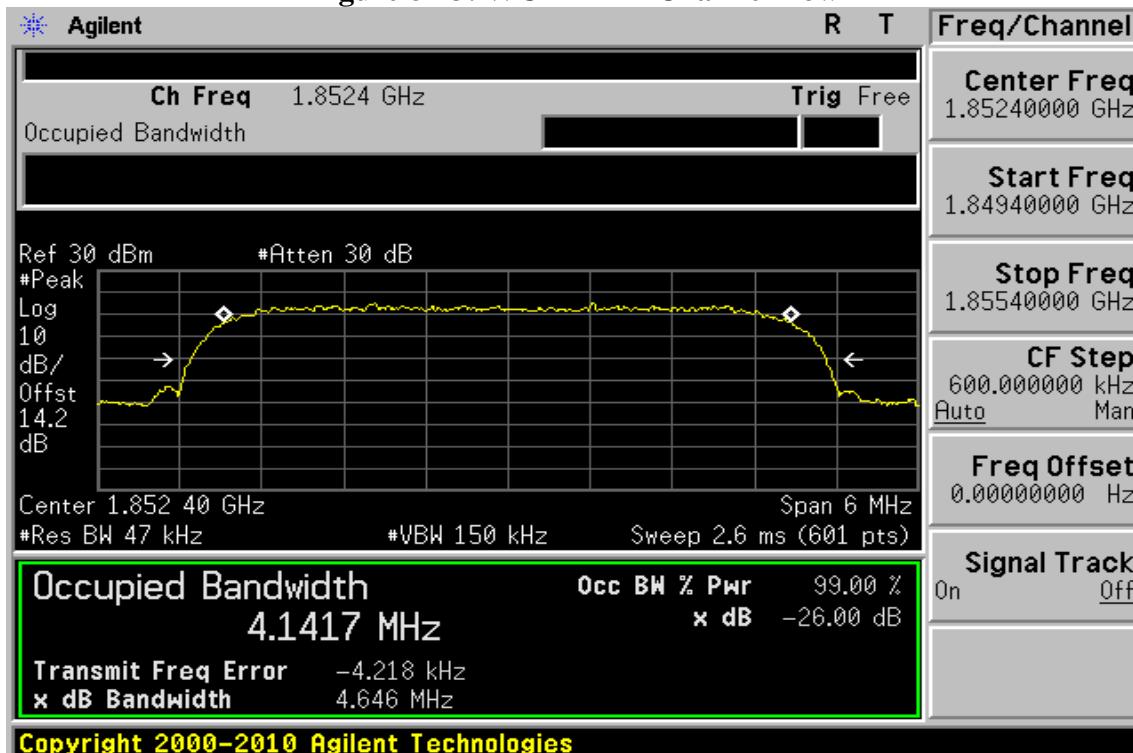
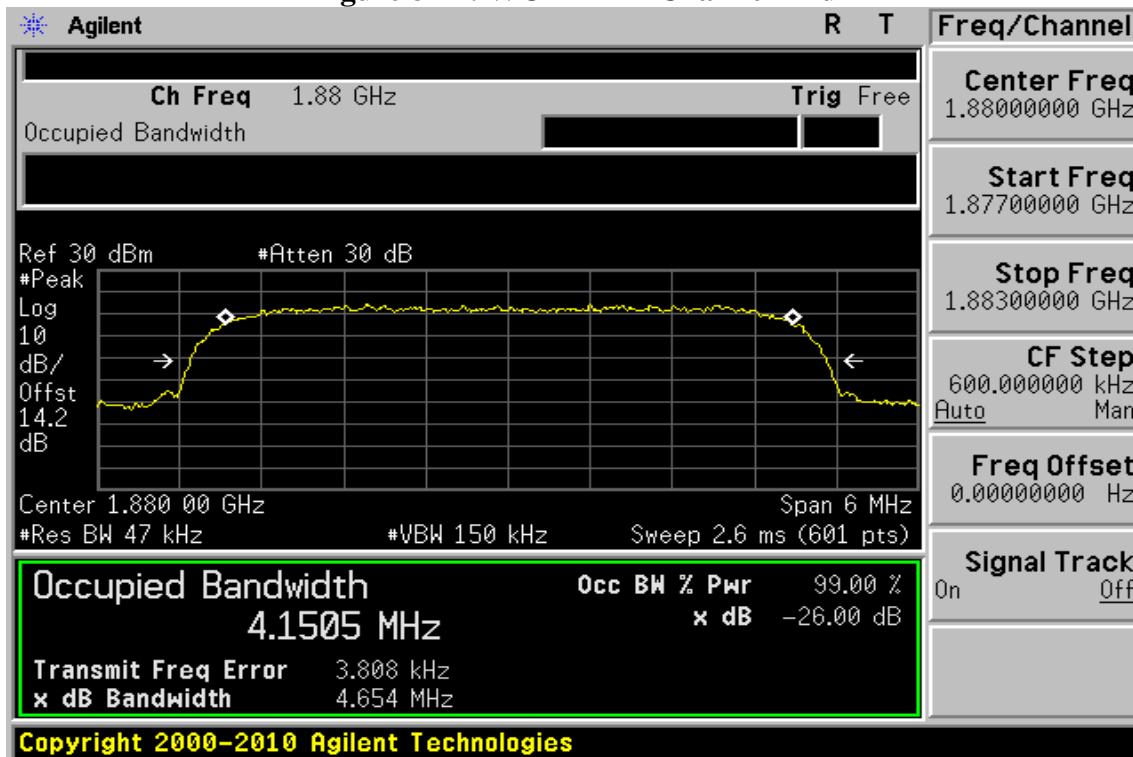


Figure 8-14: WCDMA II Channel Mid



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Figure 8-15: WCDMA II Channel High

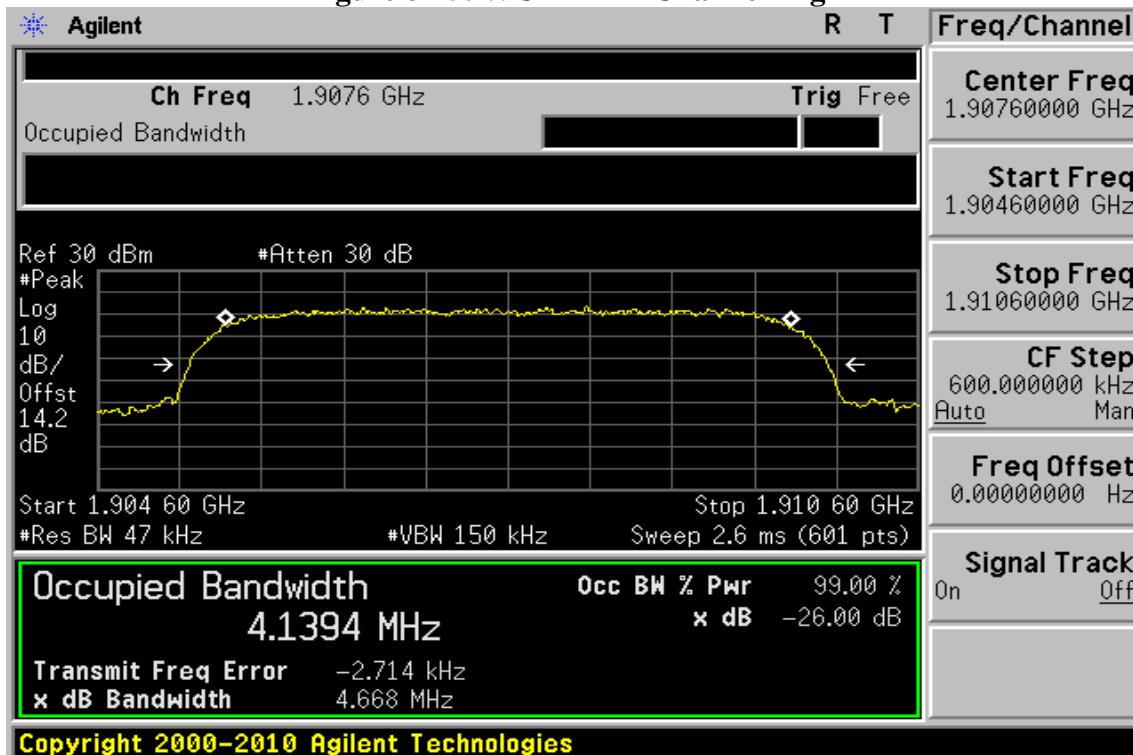
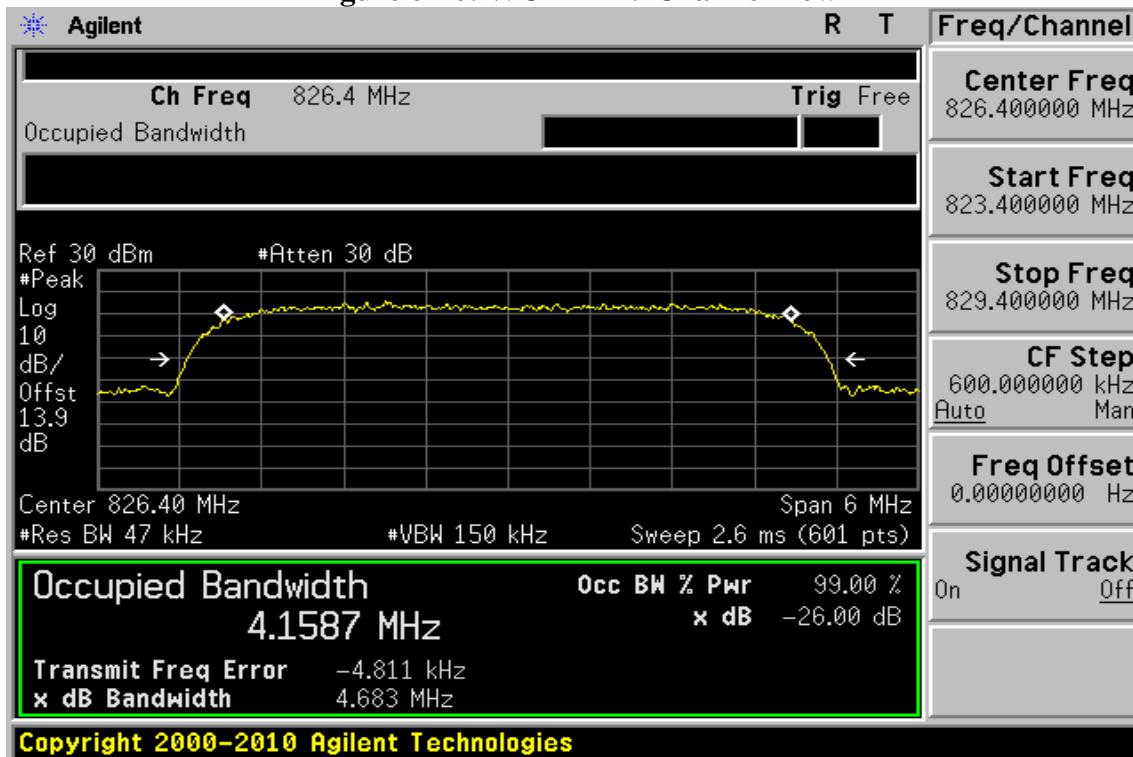


Figure 8-16: WCDMA V Channel Low



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Figure 8-17: WCDMA V Channel Mid

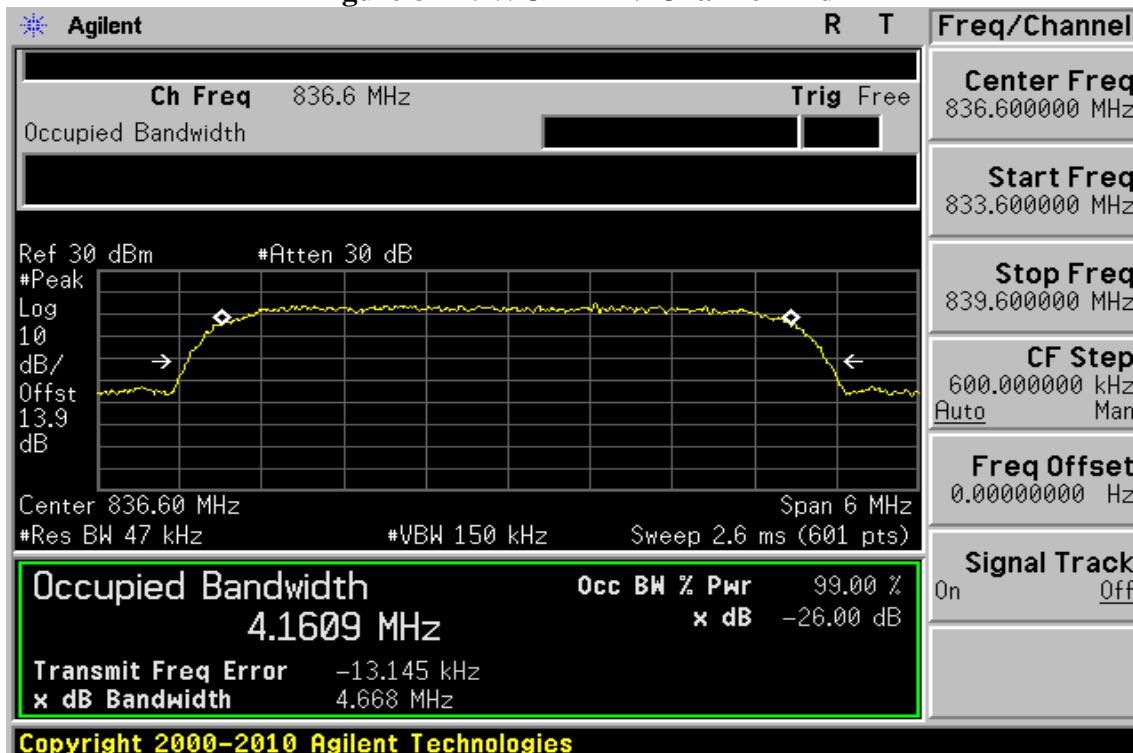
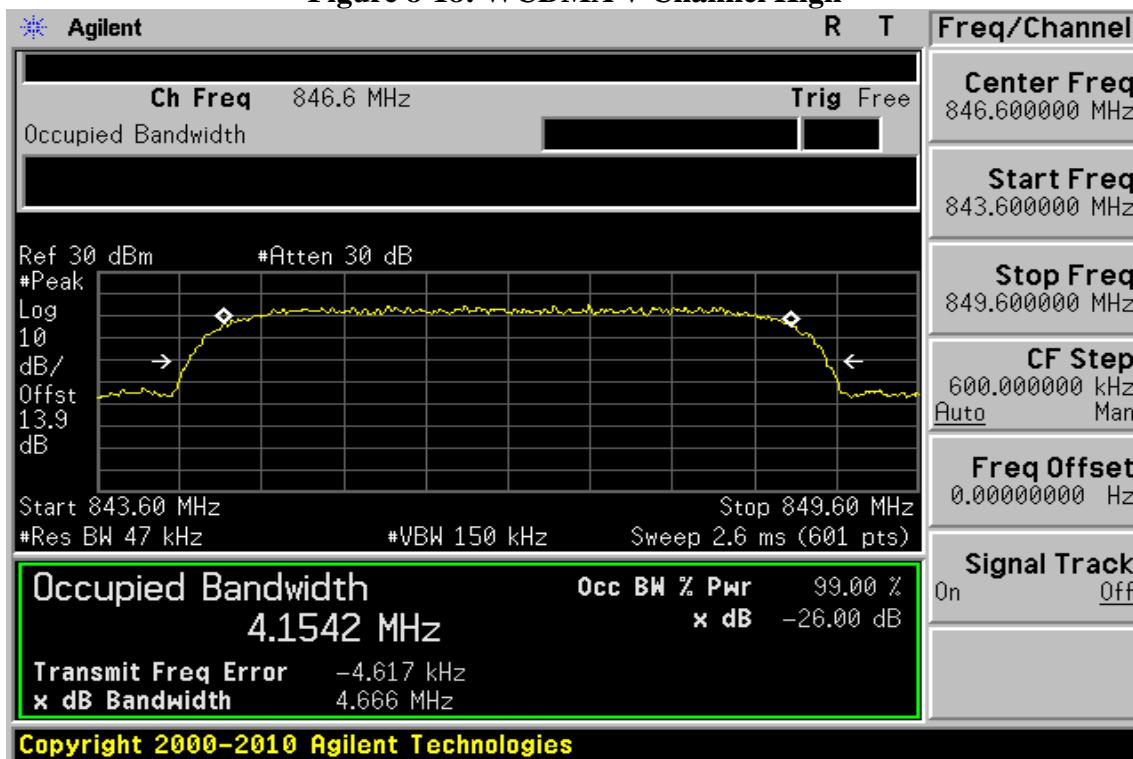


Figure 8-18: WCDMA V Channel High



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Figure 8-19: HSDPA II Channel Low

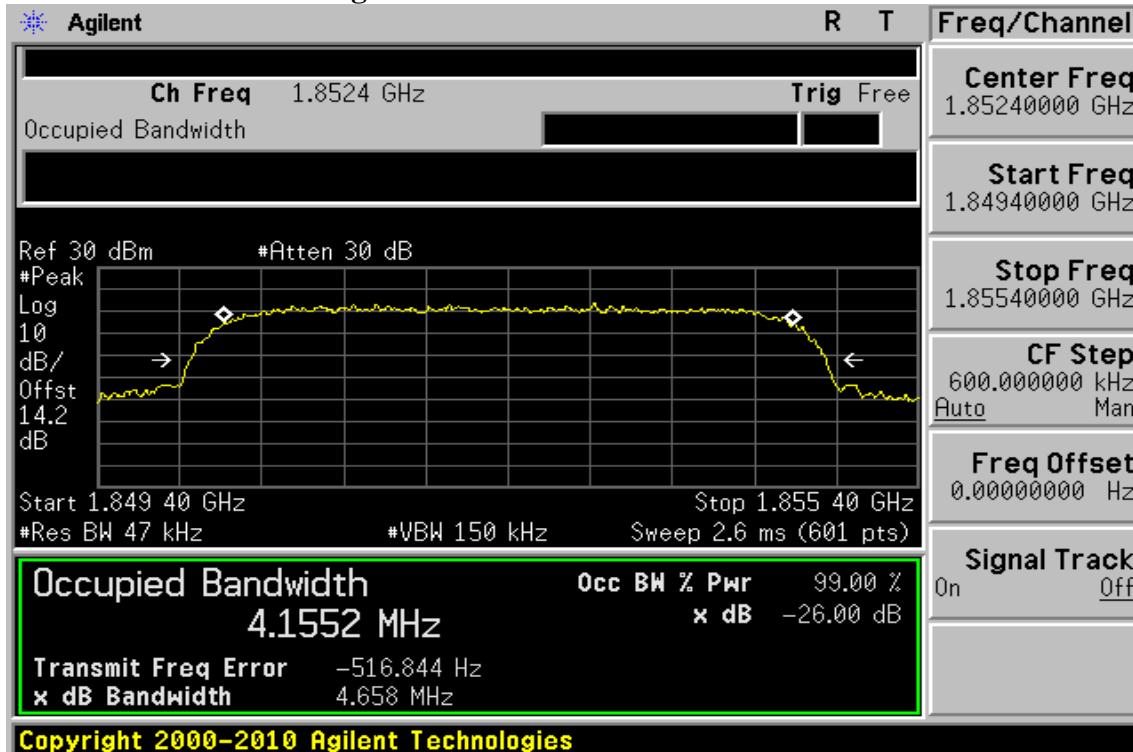
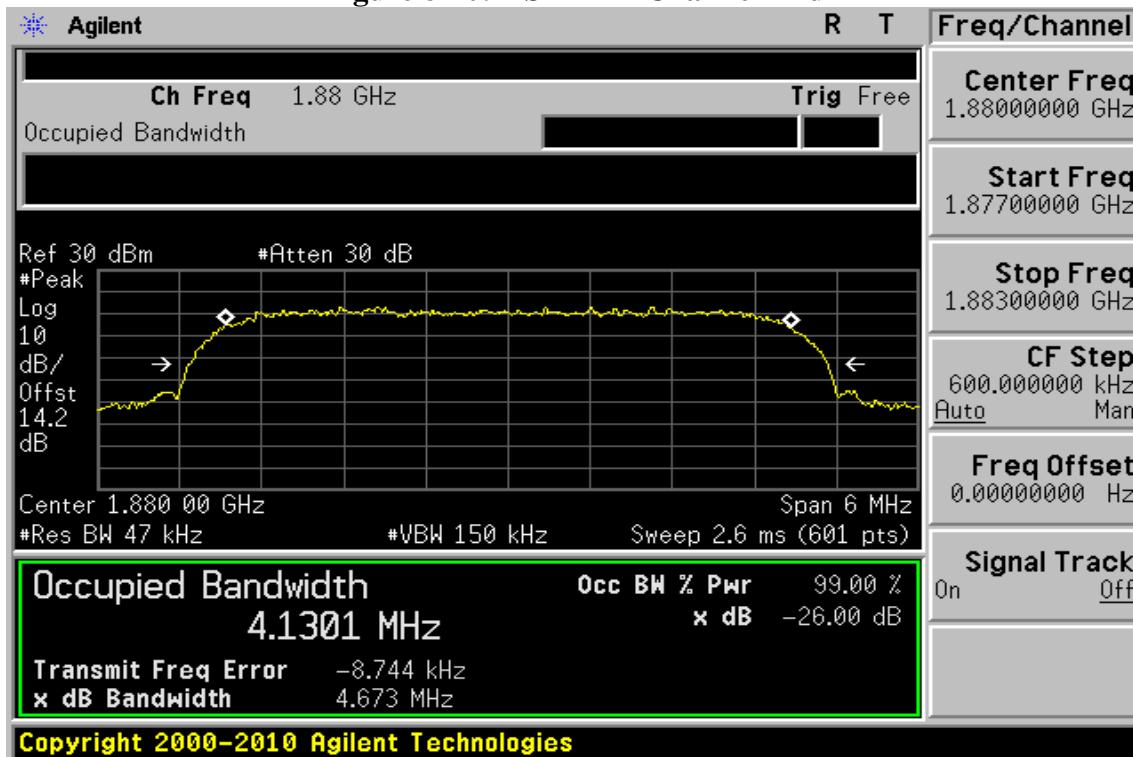


Figure 8-20: HSDPA II Channel Mid



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Figure 8-21: HSDPA II Channel High

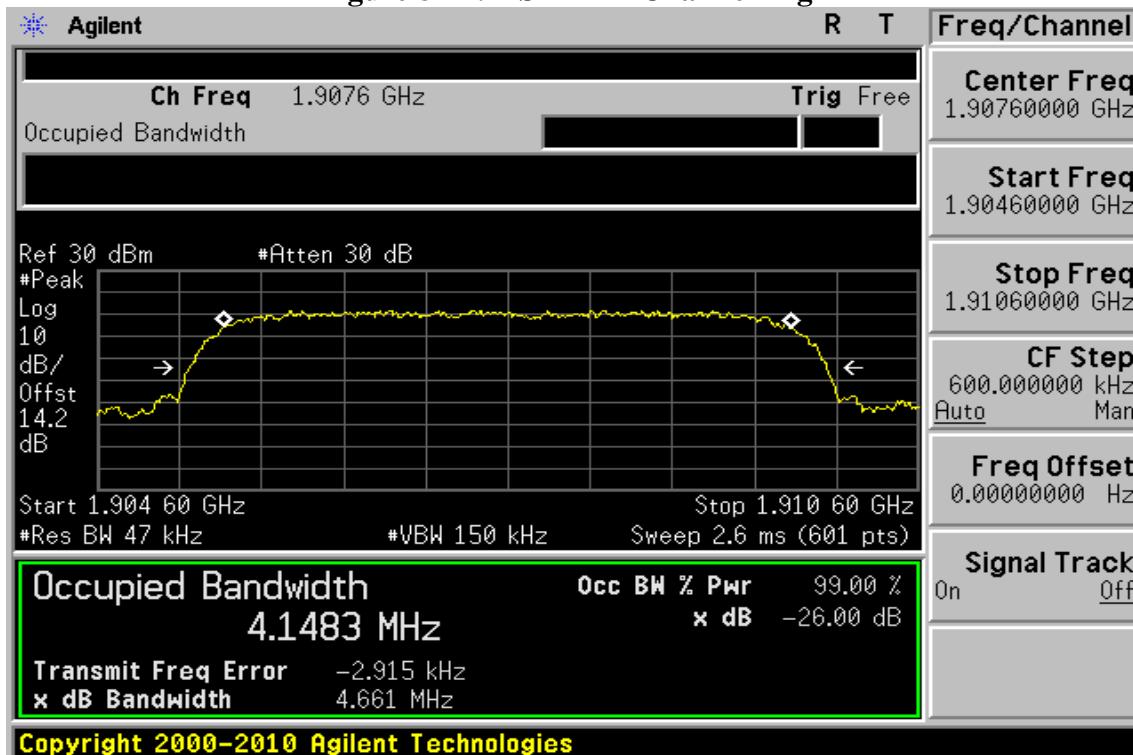
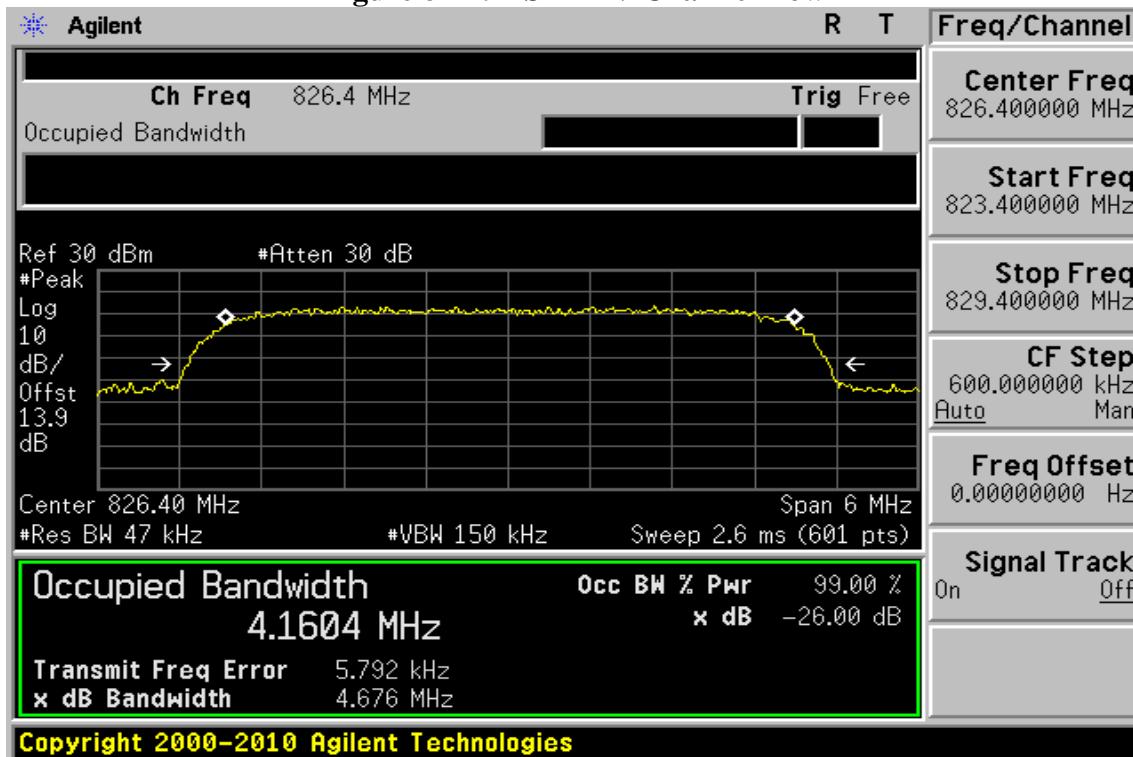


Figure 8-22: HSDPA V Channel Low



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Figure 8-23: HSDPA V Channel Mid

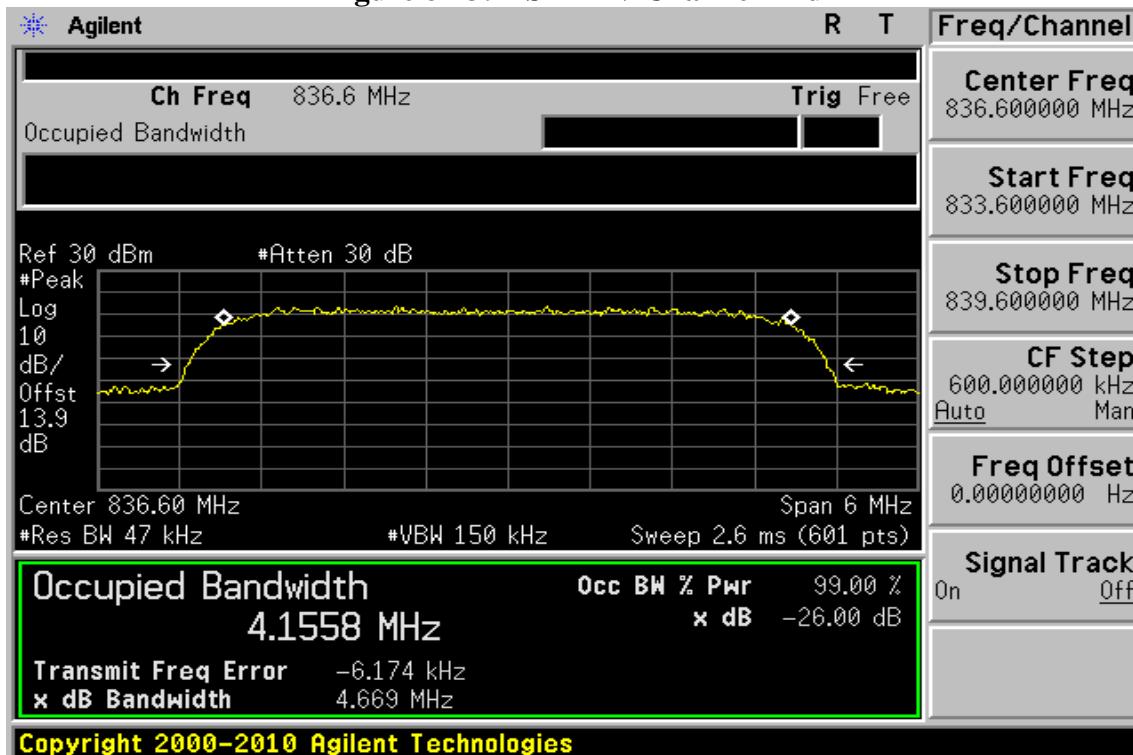
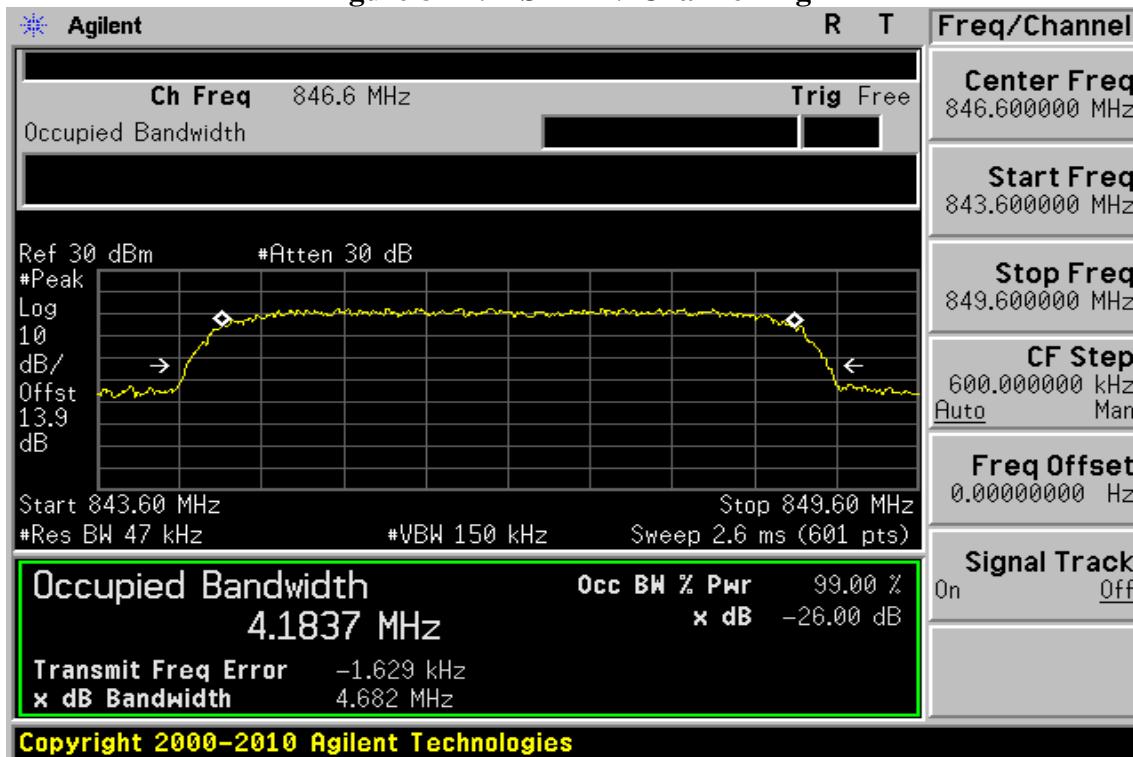


Figure 8-24: HSDPA V Channel High



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Figure 8-25: HSUPA II Channel Low

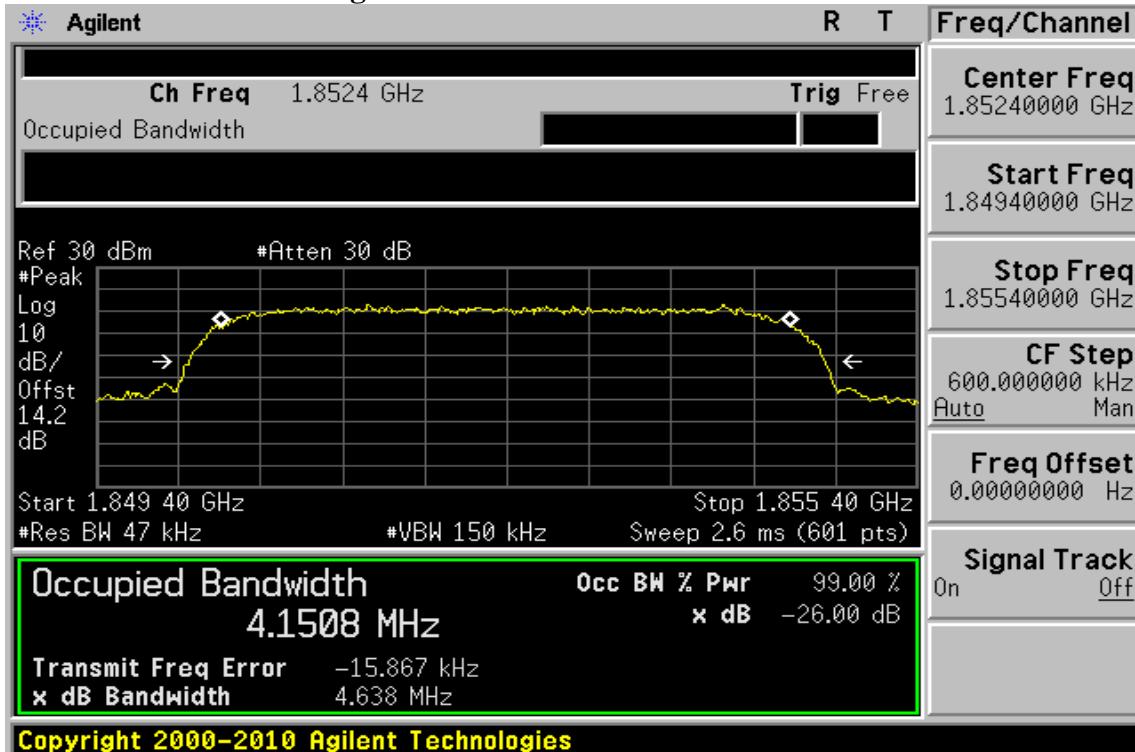
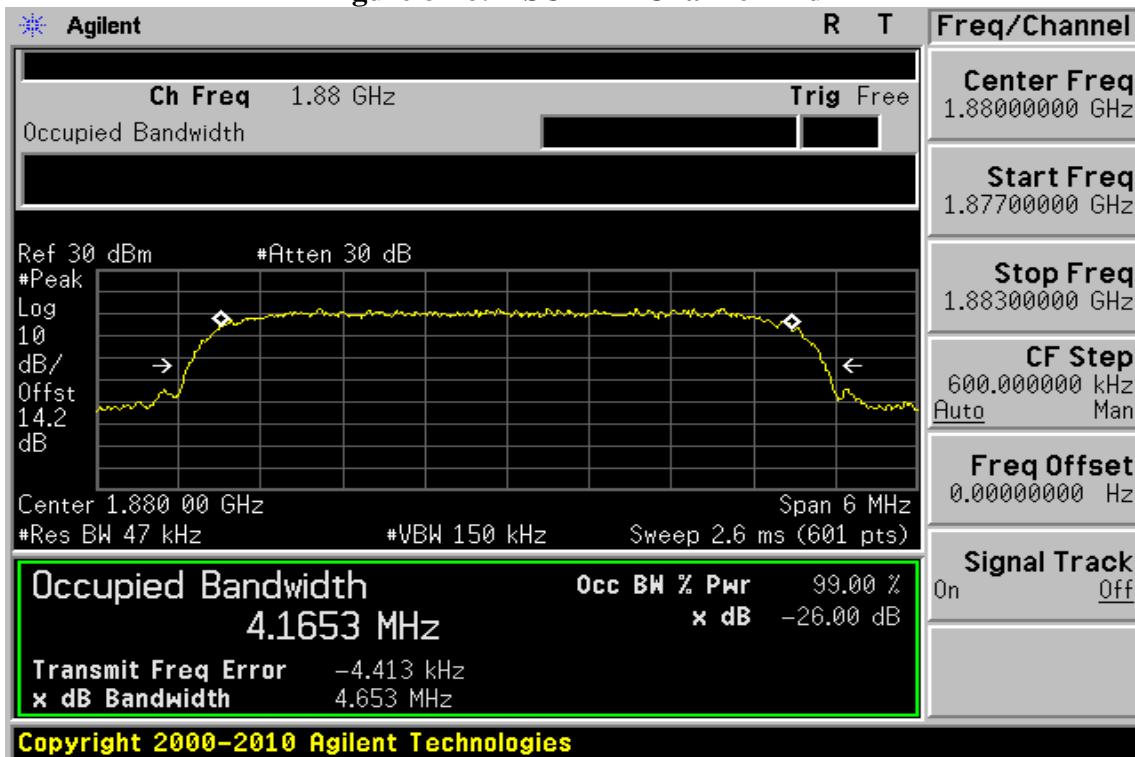


Figure 8-26: HSUPA II Channel Mid



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Figure 8-27: HSUPA II Channel High

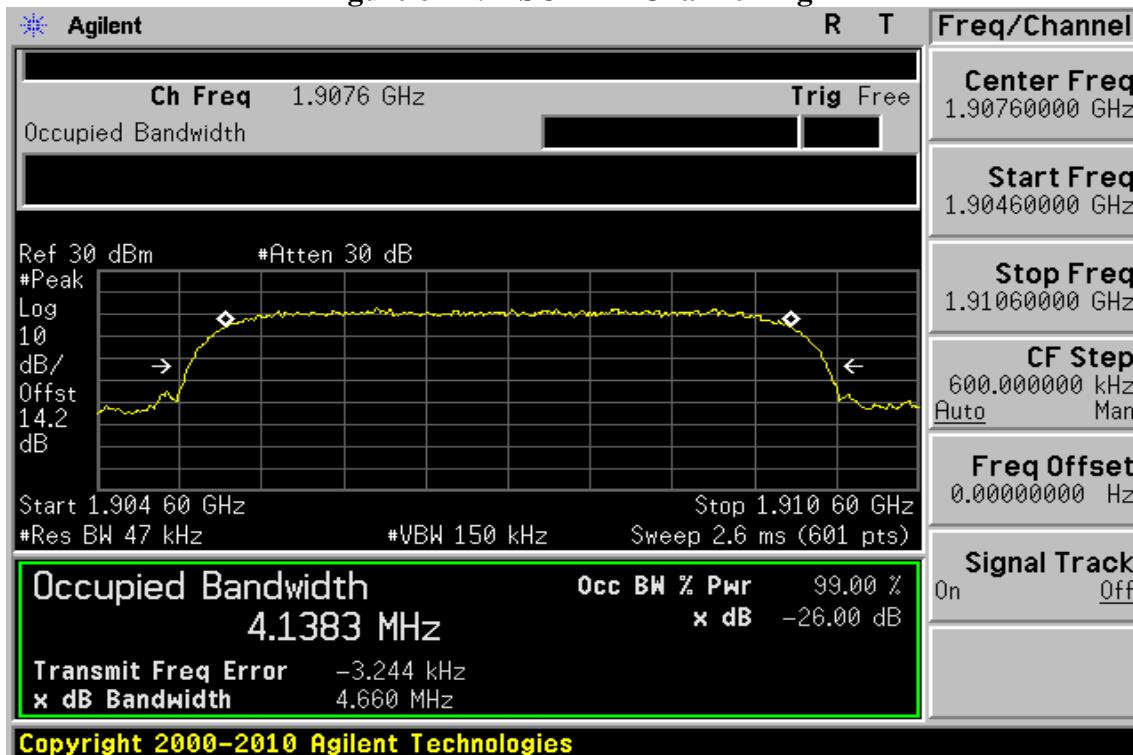
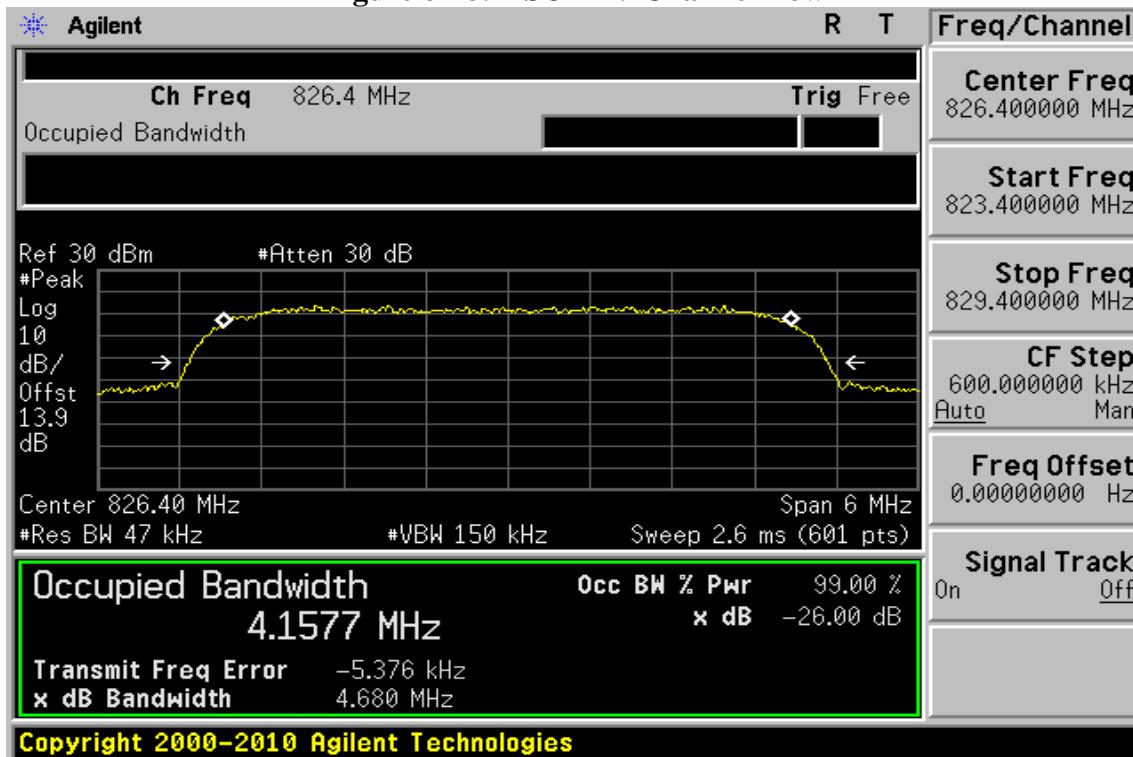


Figure 8-28: HSUPA V Channel Low



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Figure 8-29: HSUPA V Channel Mid

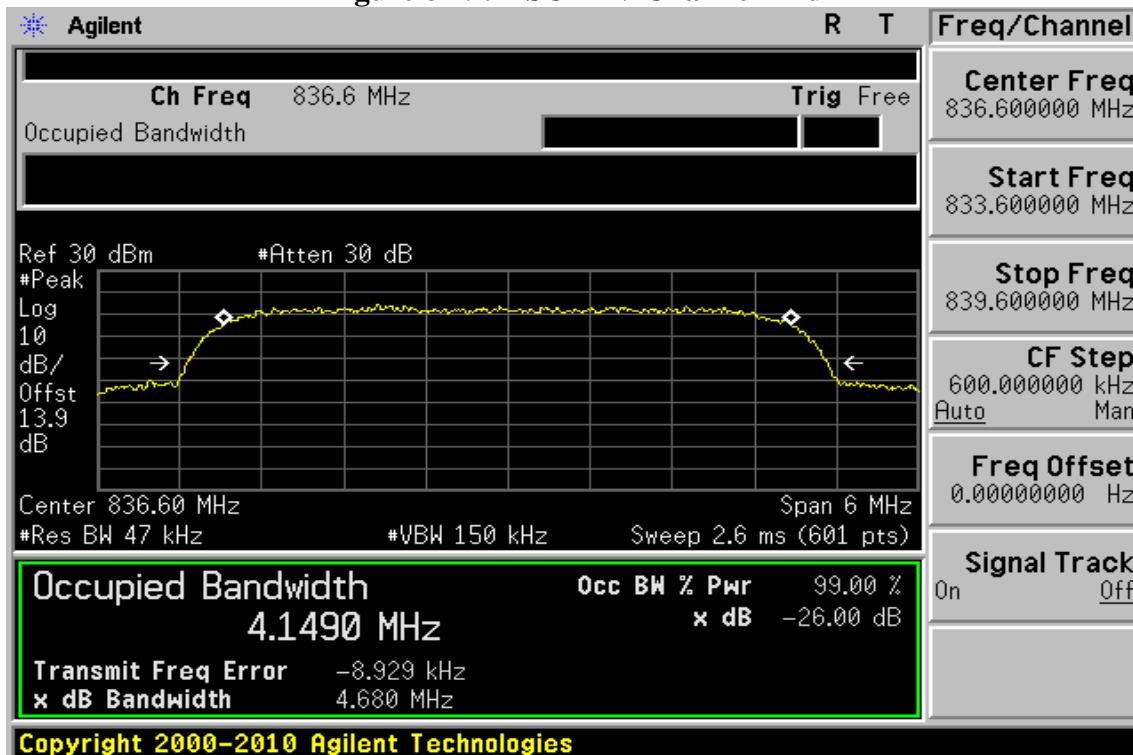
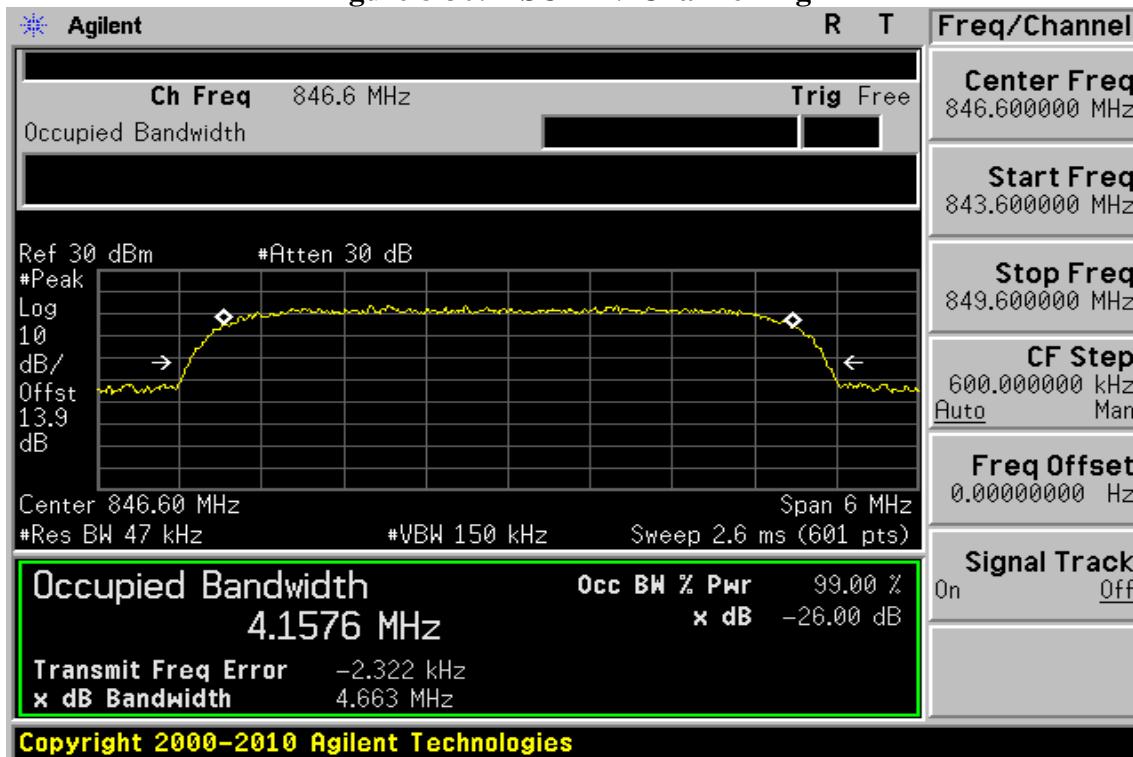


Figure 8-30: HSUPA V Channel High



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9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

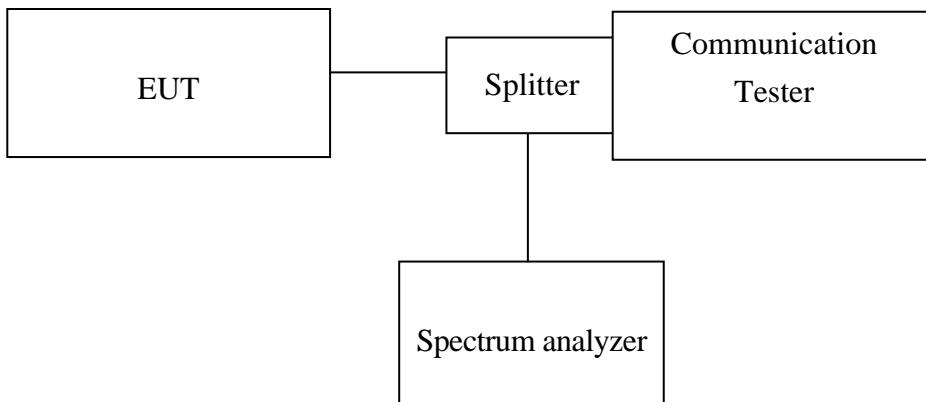
9.1. Standard Applicable:

According to FCC §2.1051.

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

9.2. Test SET-UP:

Out of band emission



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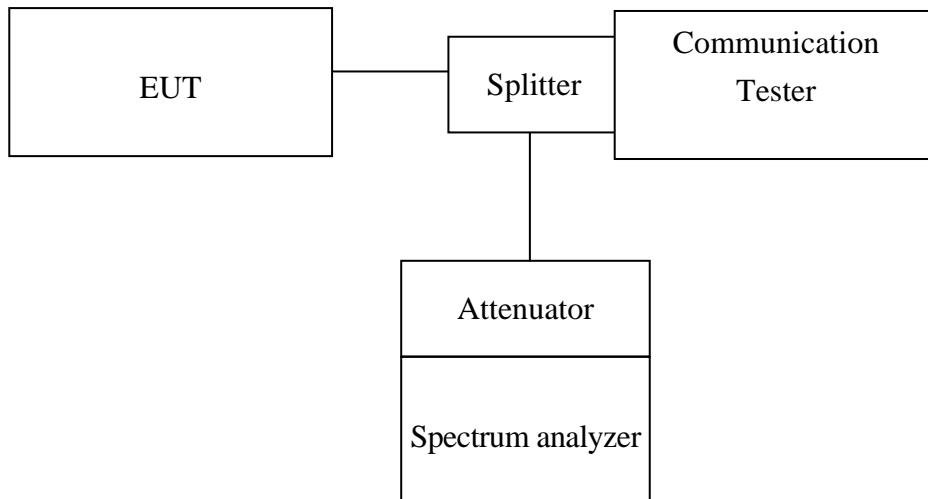
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Band Edge

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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

9.5. Measurement Result:

Refer to next pages.

NOTE: the occurrence of the spike on the conducted emission is the signal of the fundamental emission.

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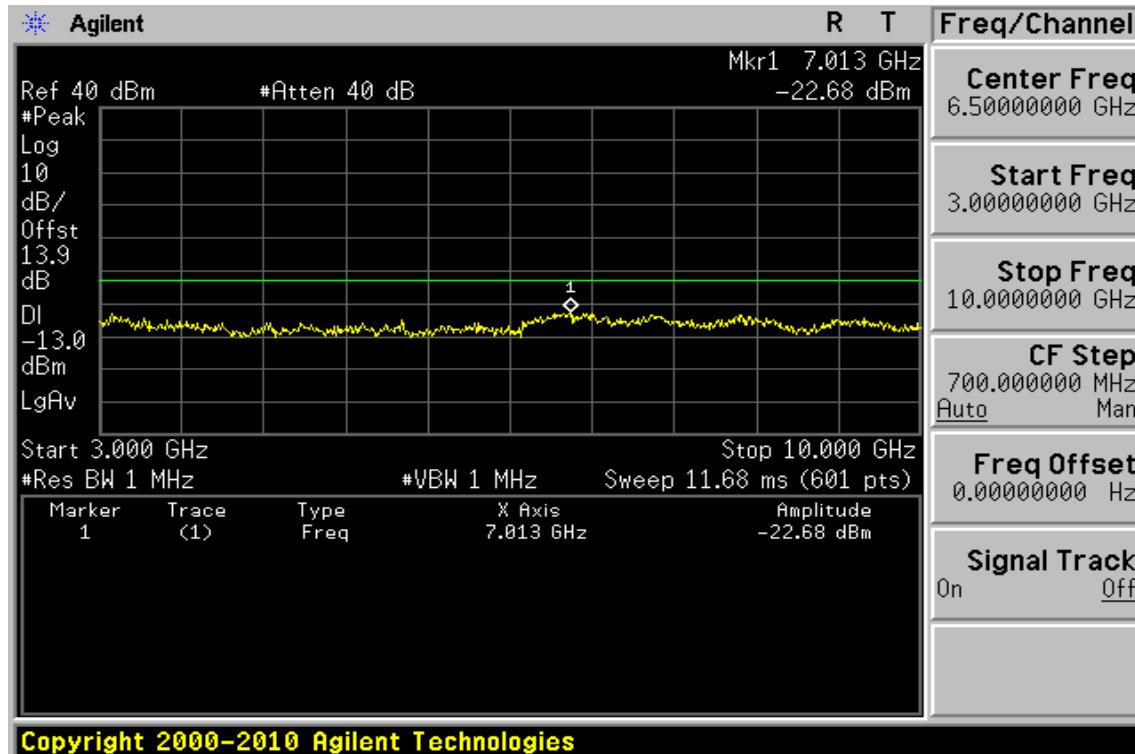
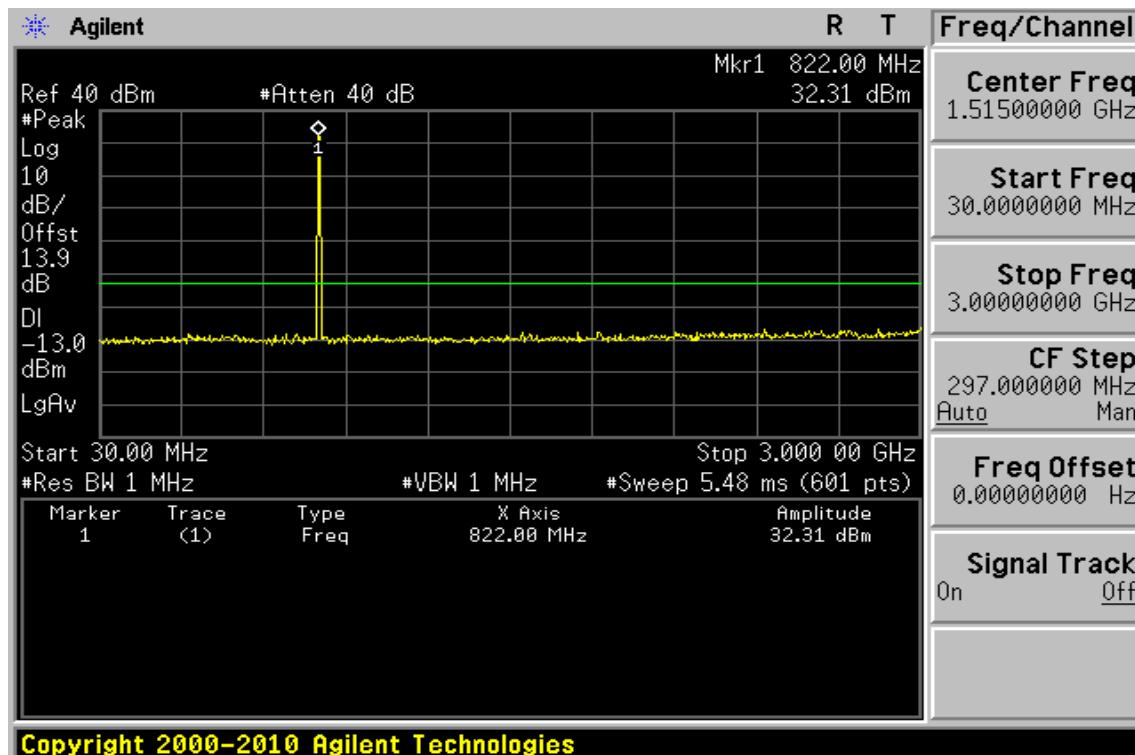
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Figure 9-1: Out of Band emission at antenna terminals – GSM 850 Channel Lowest



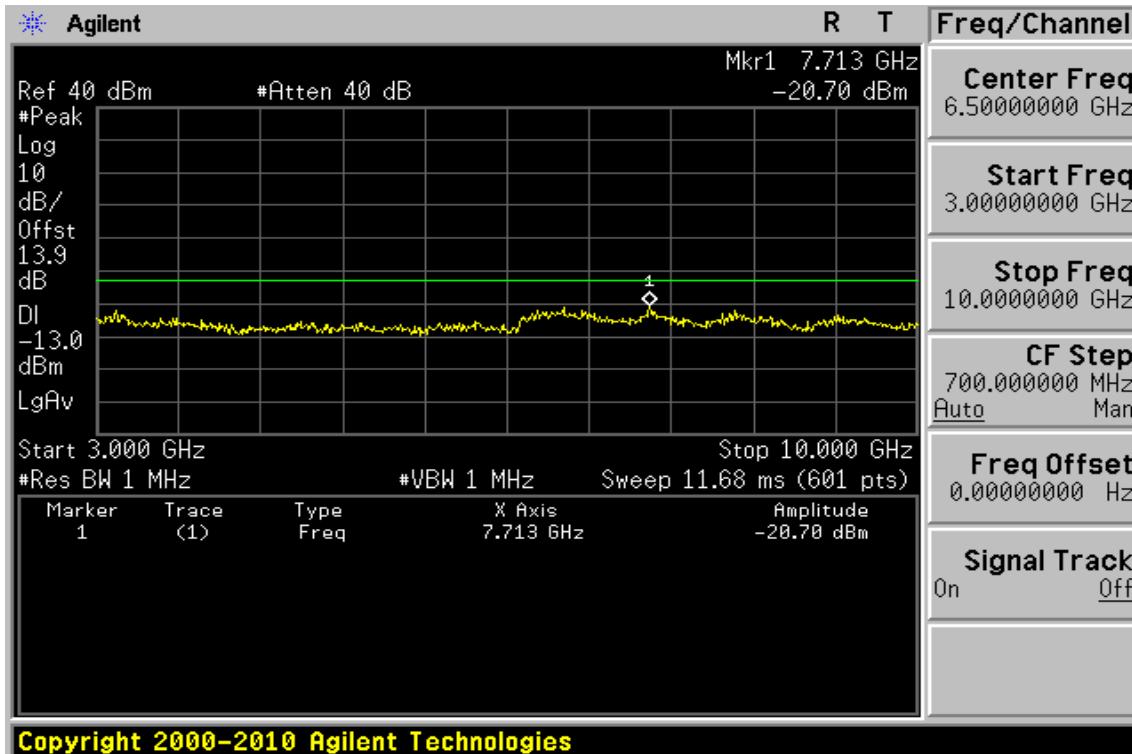
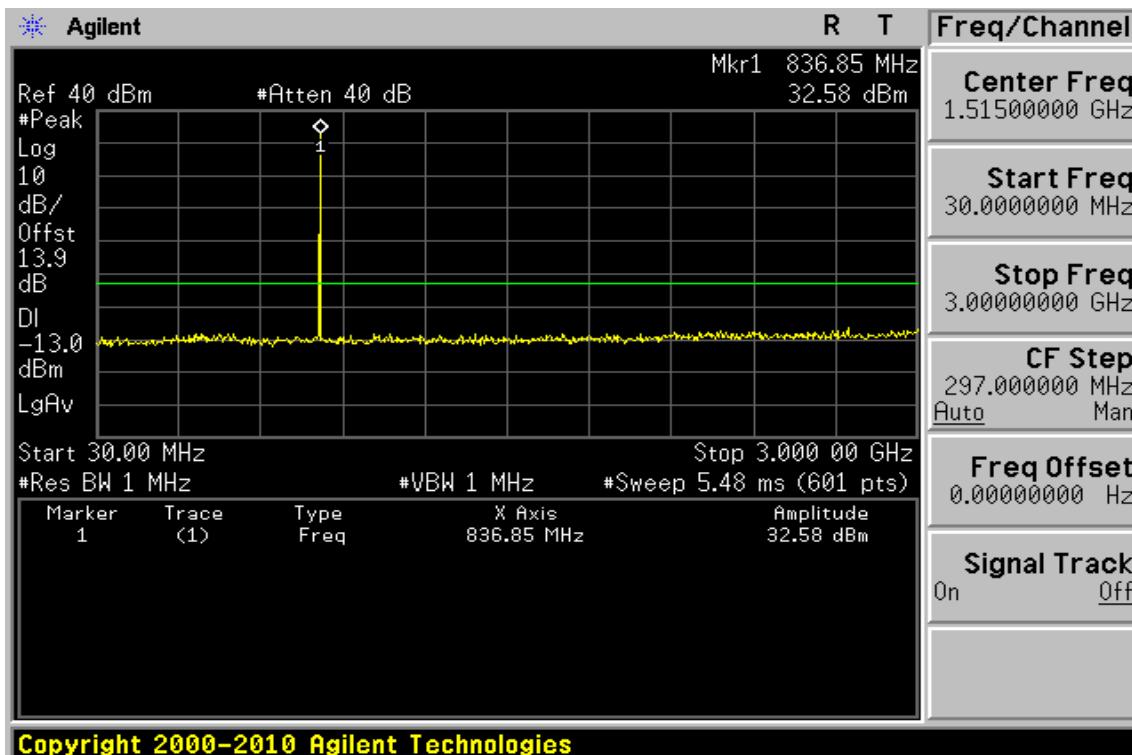
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Figure 9-2: Out of Band emission at antenna terminals – GSM 850 Channel Mid



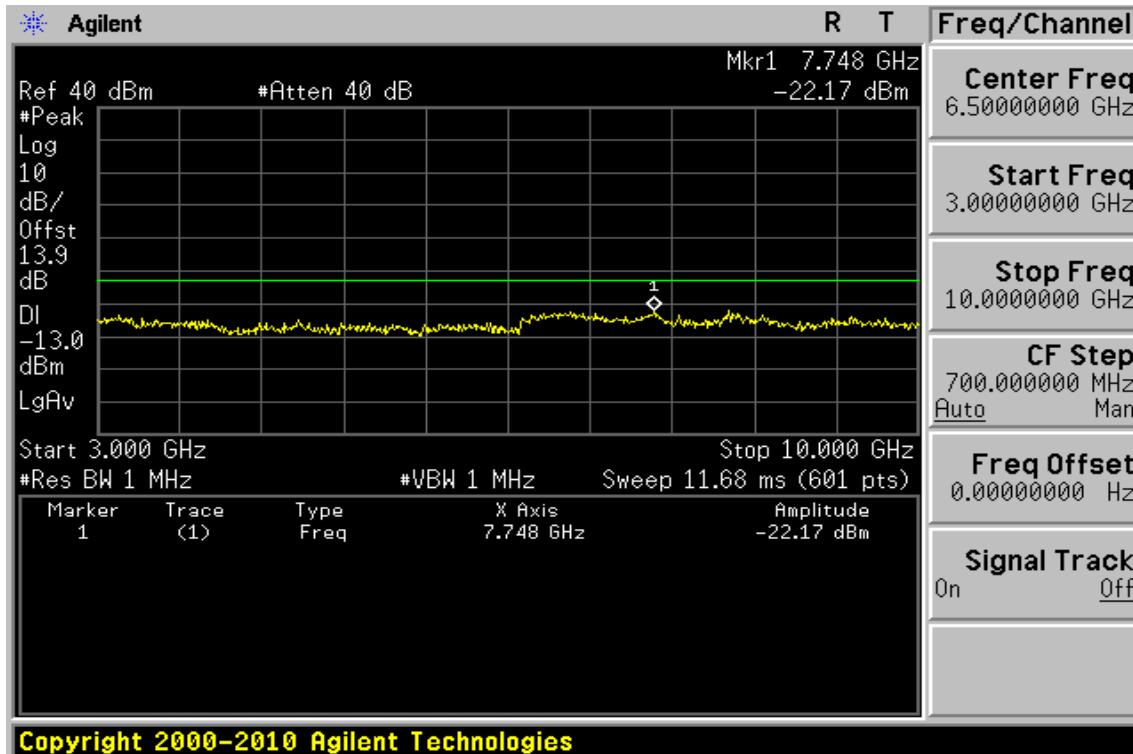
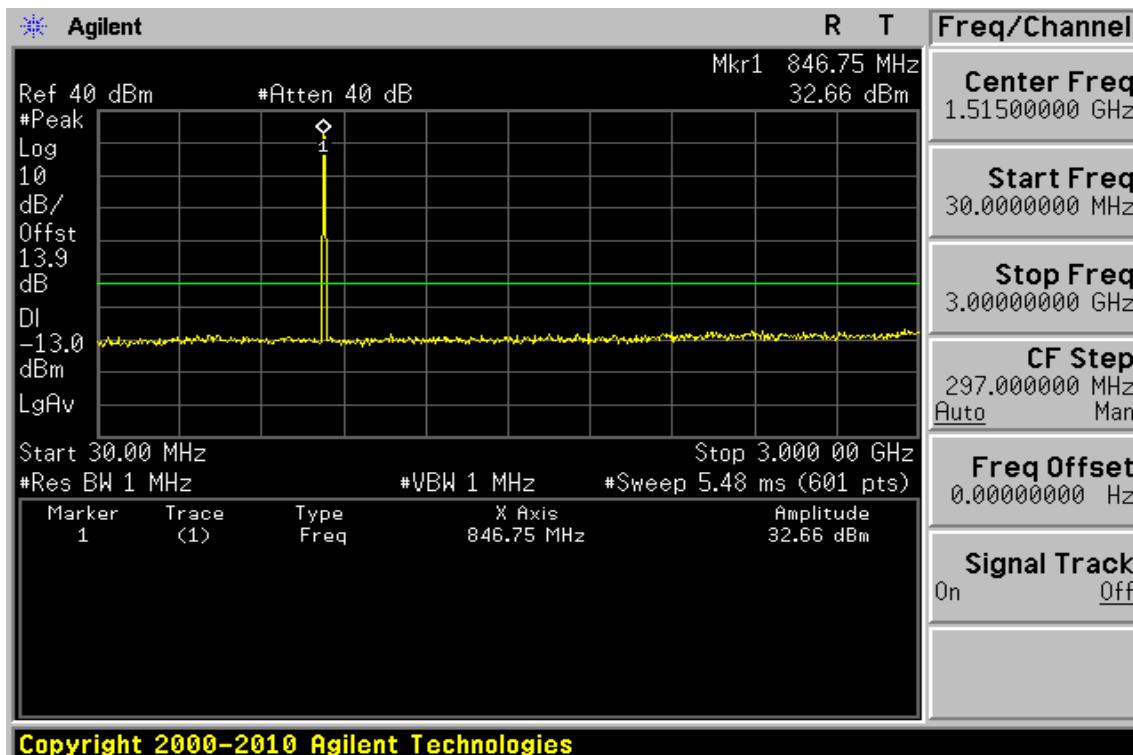
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Figure 9-3: Out of Band emission at antenna terminals – GSM 850 Channel Highest



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

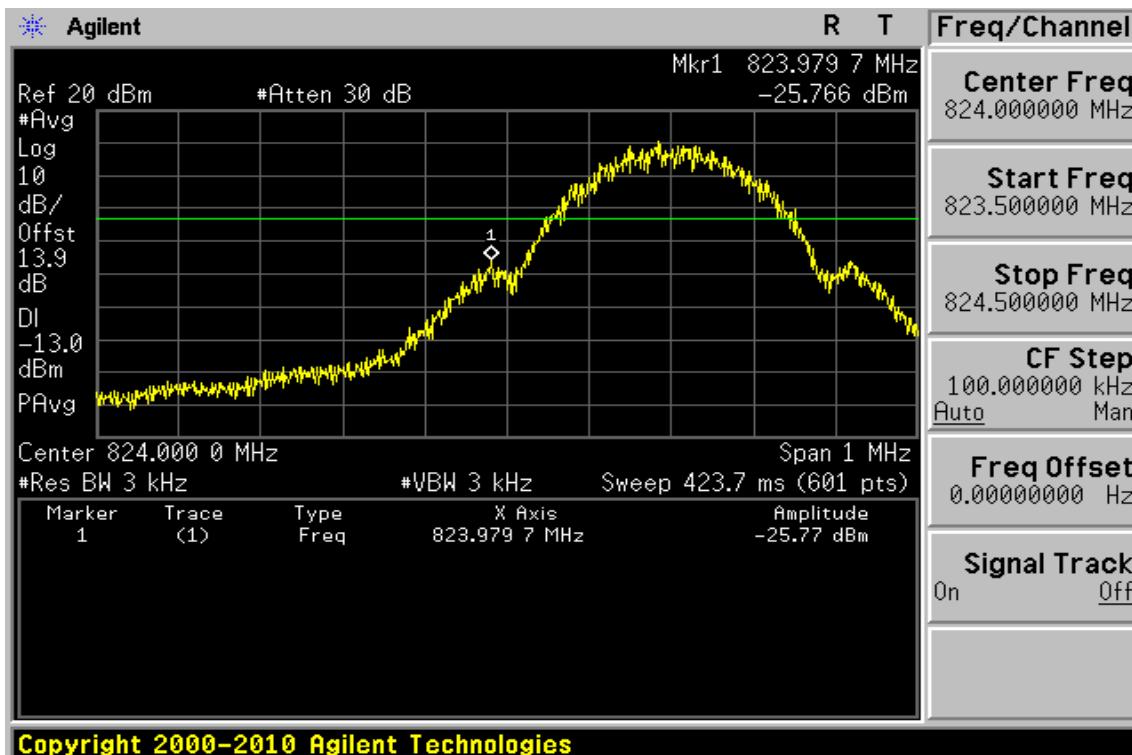
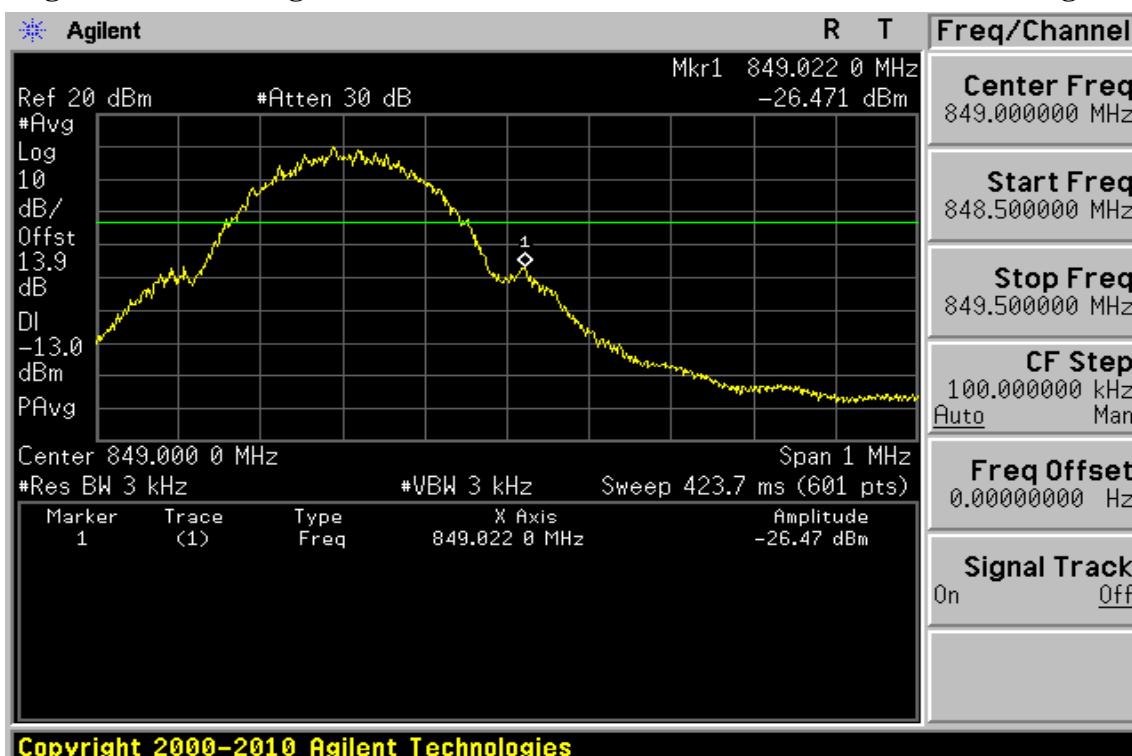


Figure 9-5: Band edge emission at antenna terminals – GSM 850 Channel Highest



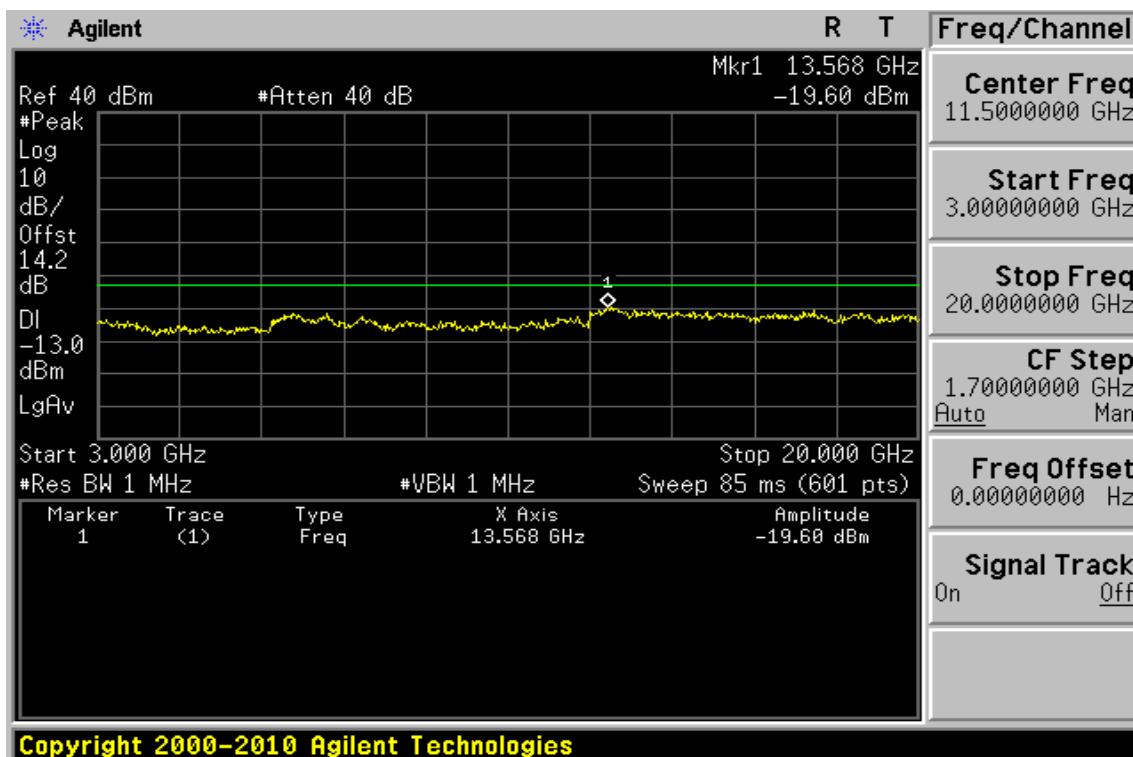
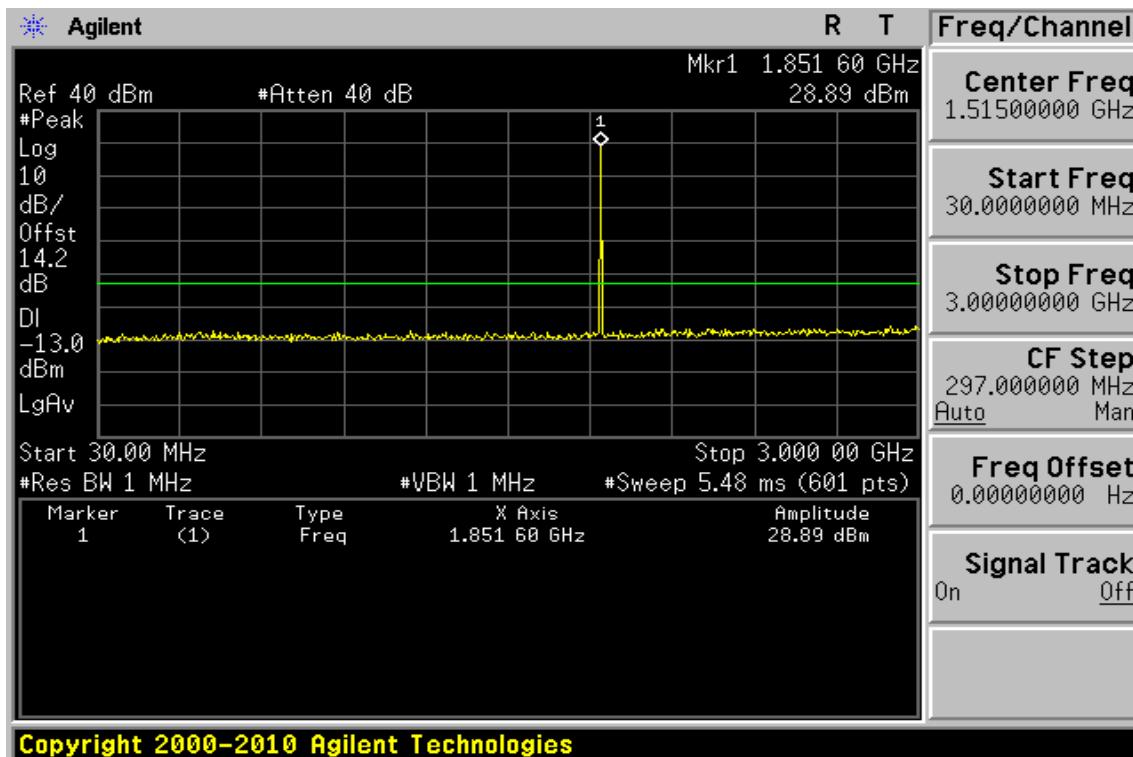
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Figure 9-6: Out of Band emission at antenna terminals – GSM 1900 Channel Lowest



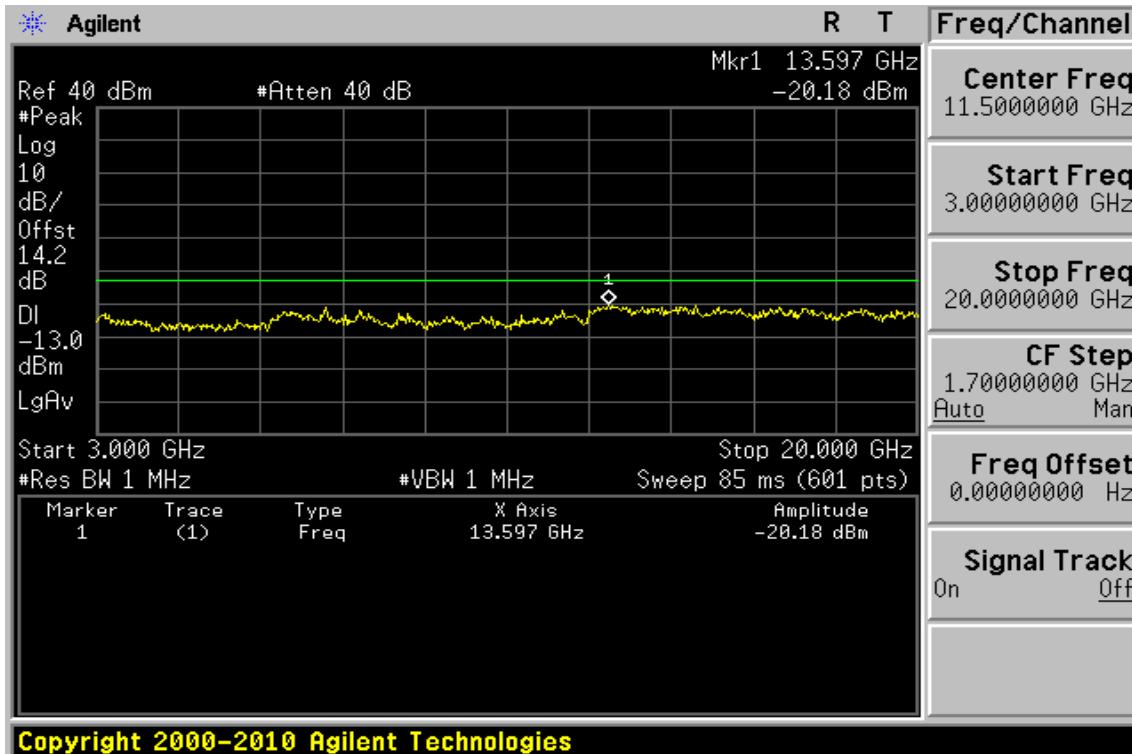
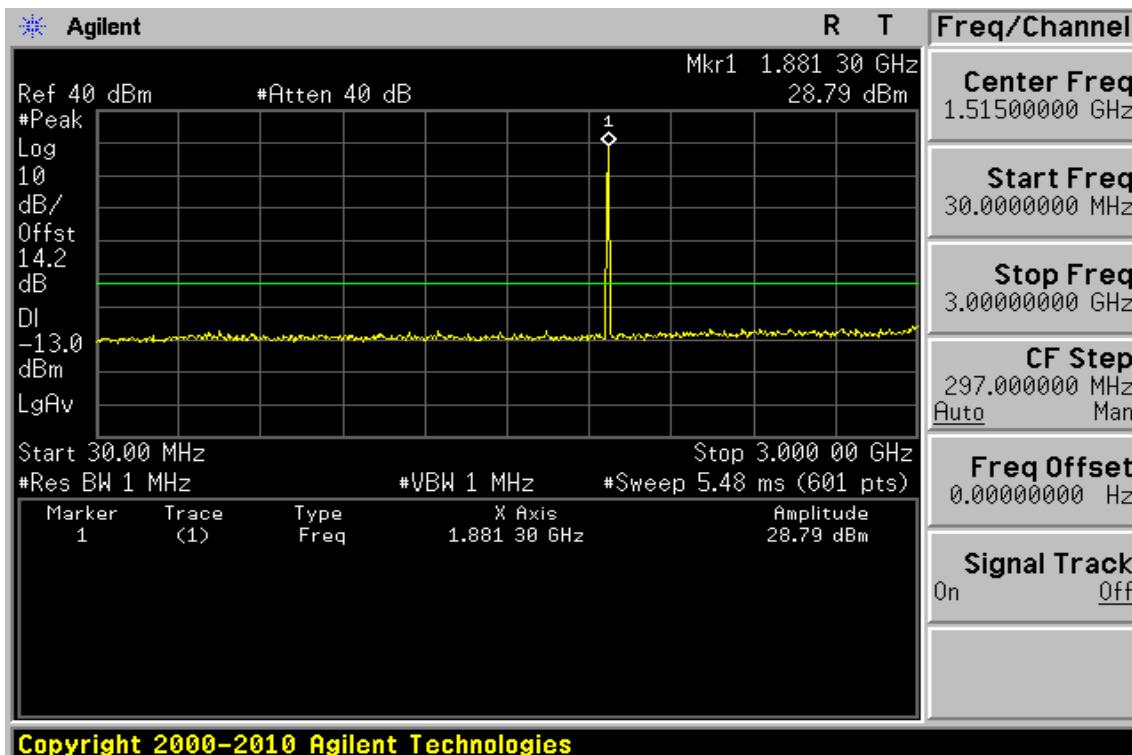
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Figure 9-7: Out of Band emission at antenna terminals – GSM 1900 Channel Mid



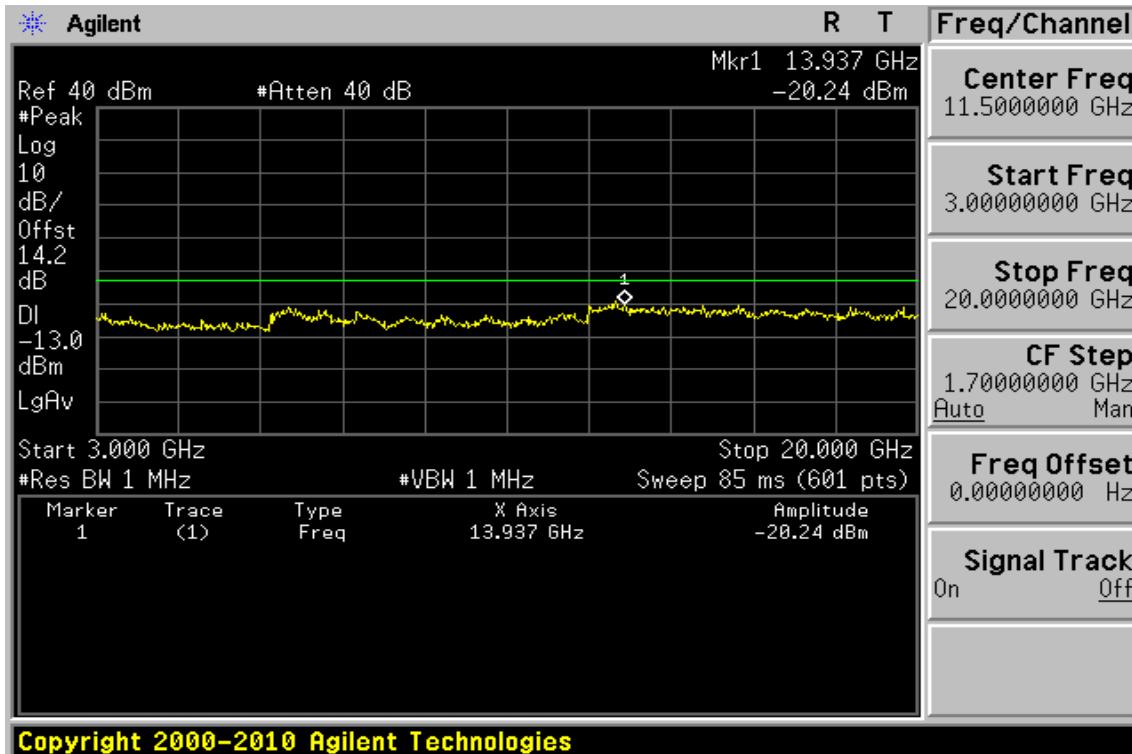
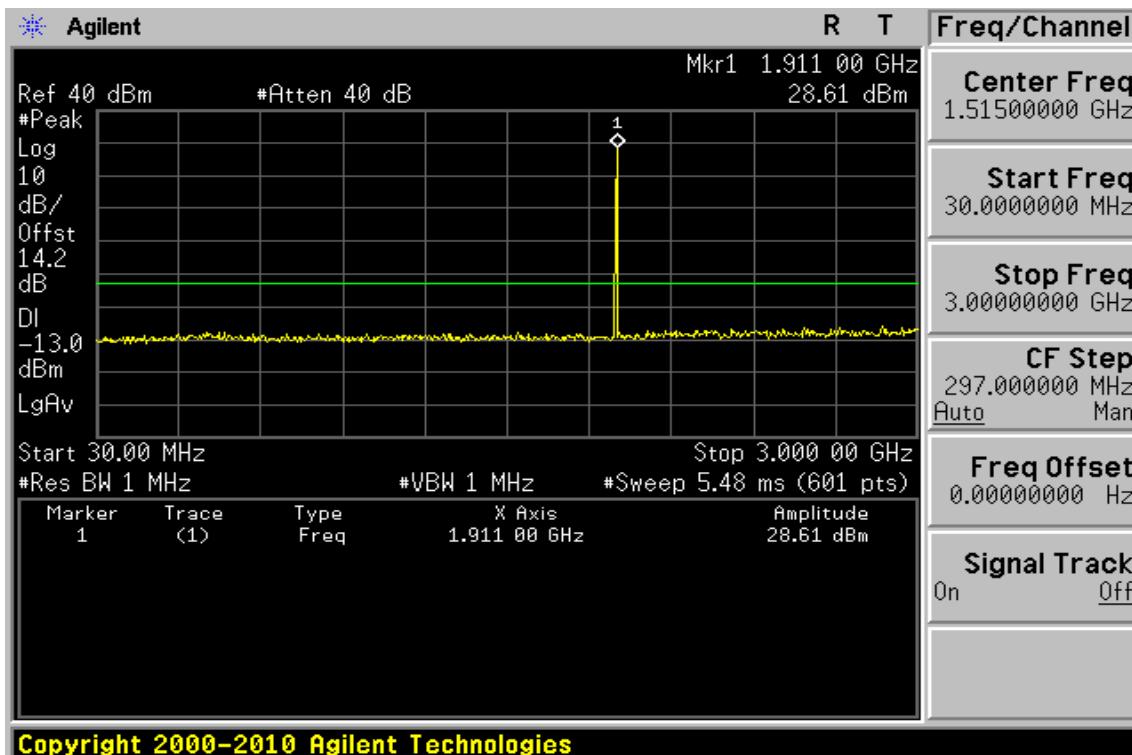
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Figure 9-8: Out of Band emission at antenna terminals – GSM 1900 Channel Highest



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

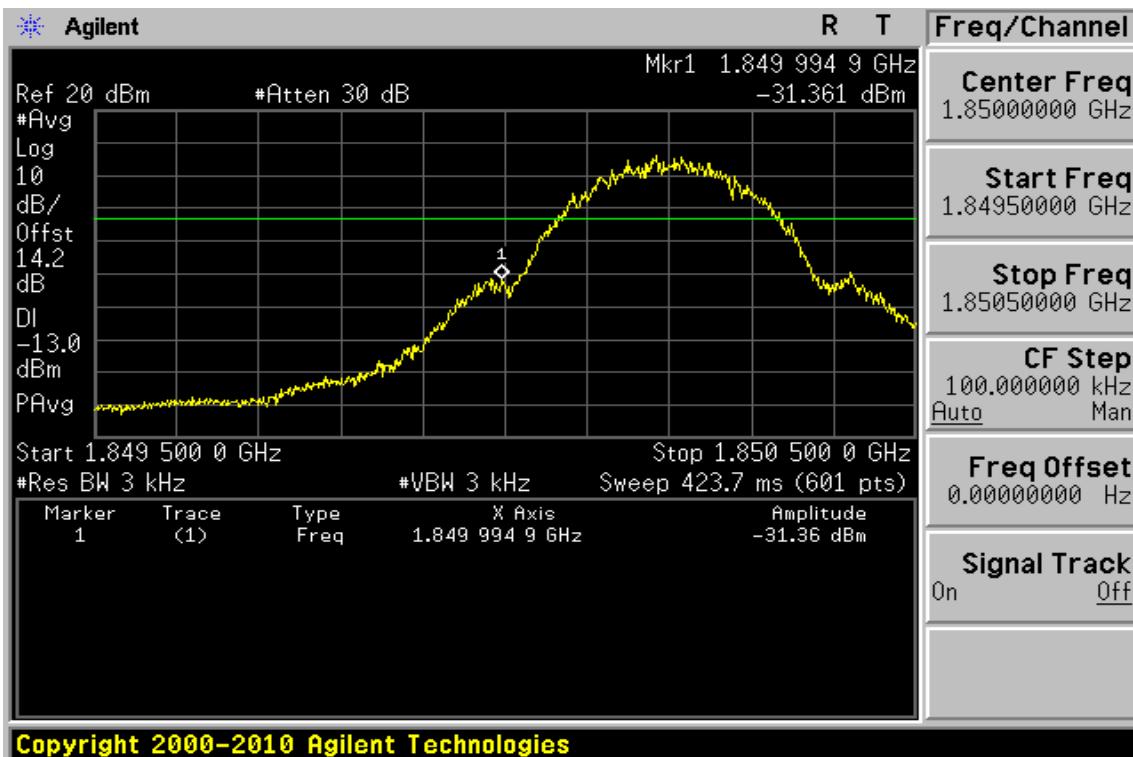
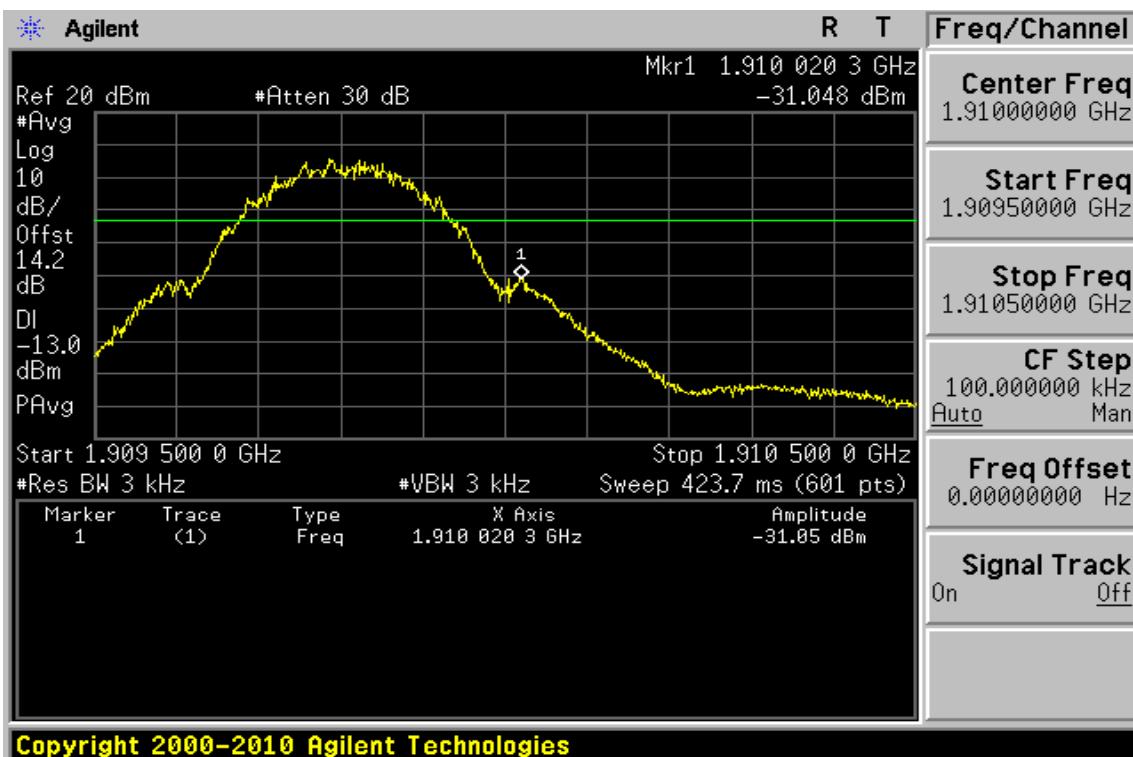


Figure 9-10: Band edge emission at antenna terminals – GSM 1900 Channel Highest



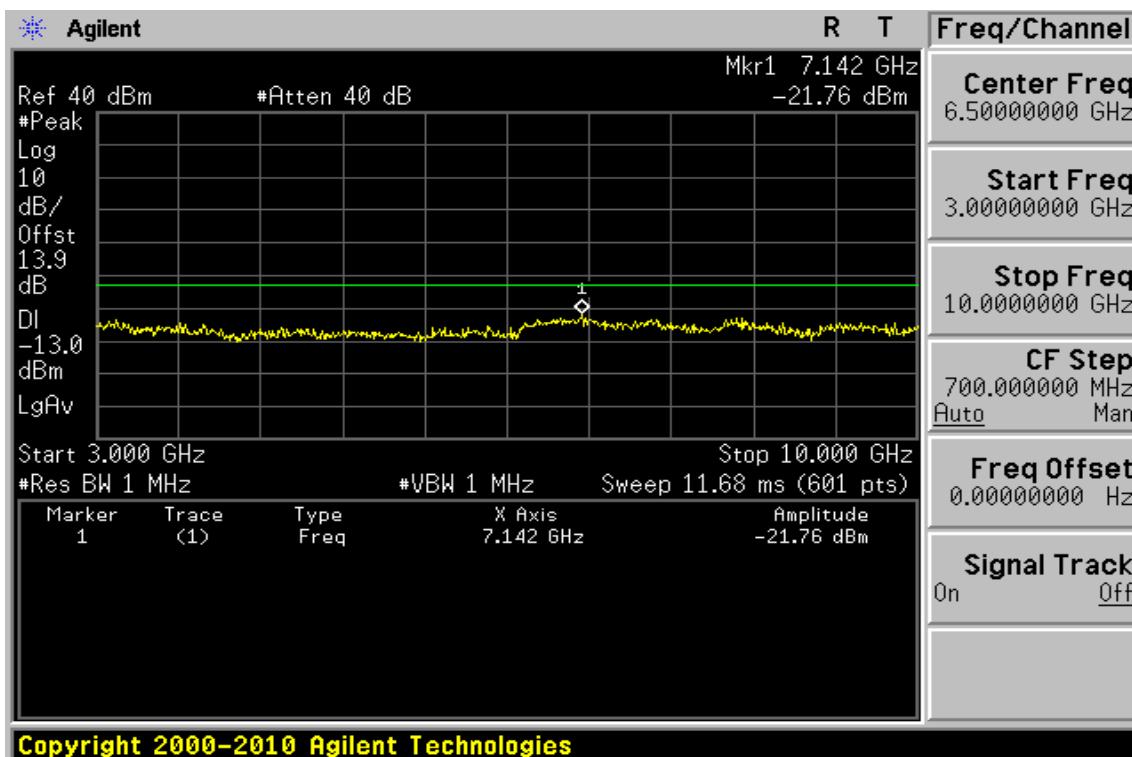
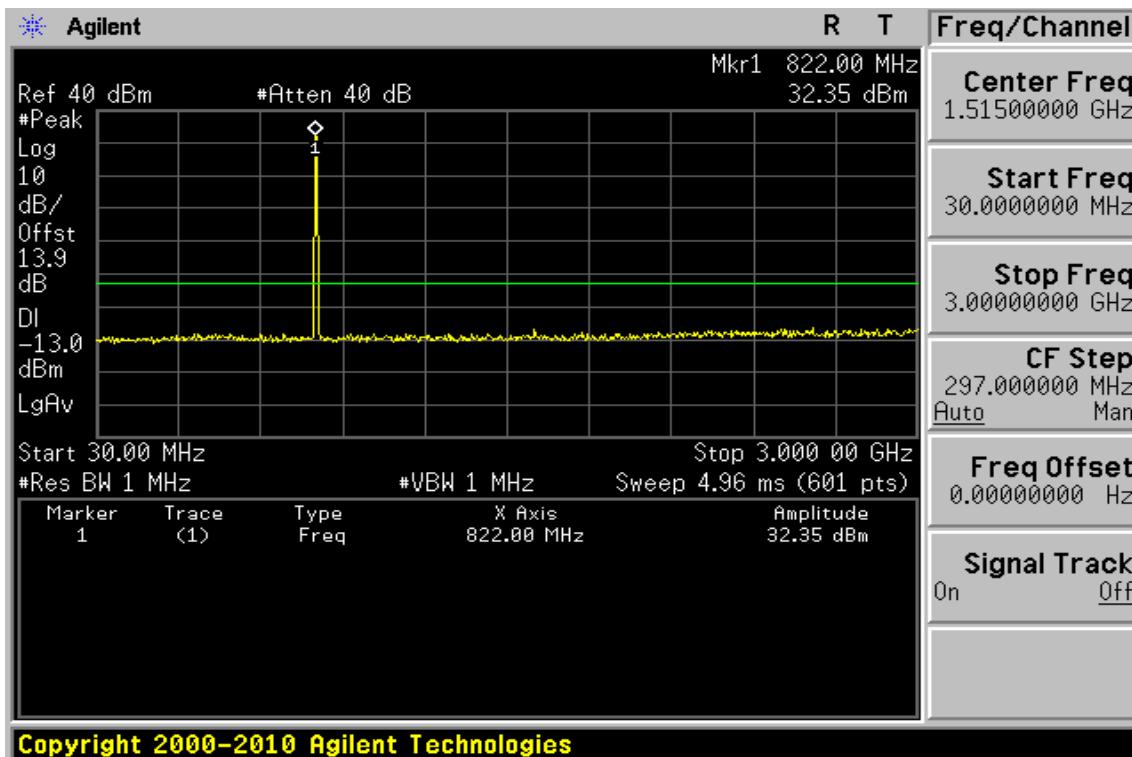
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Figure 9-11: Out of Band emission at antenna terminals – GPRS850 Channel Lowest



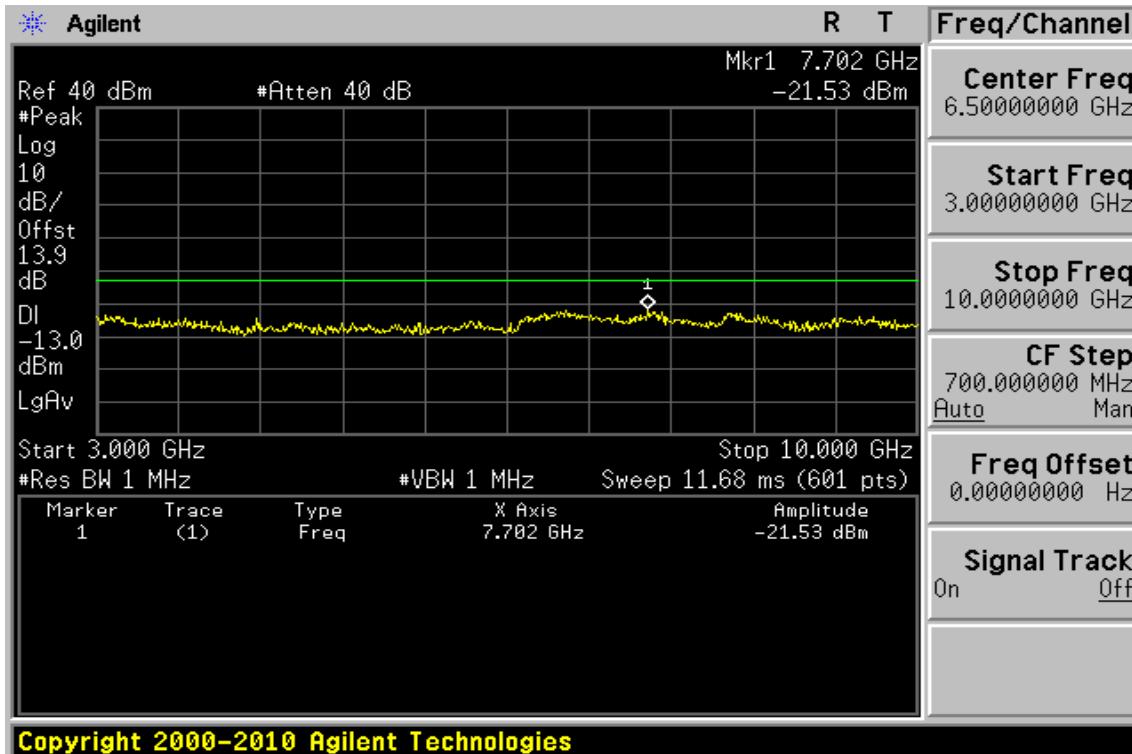
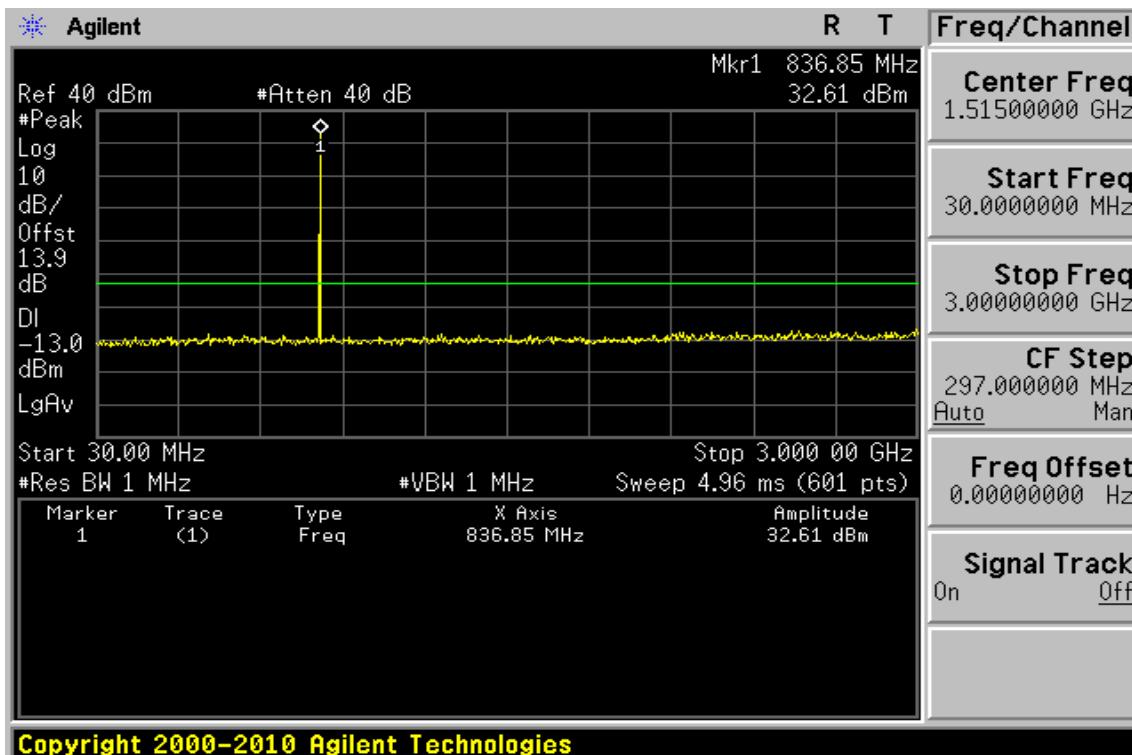
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Figure 9-12: Out of Band emission at antenna terminals – GPRS 850 Channel Mid



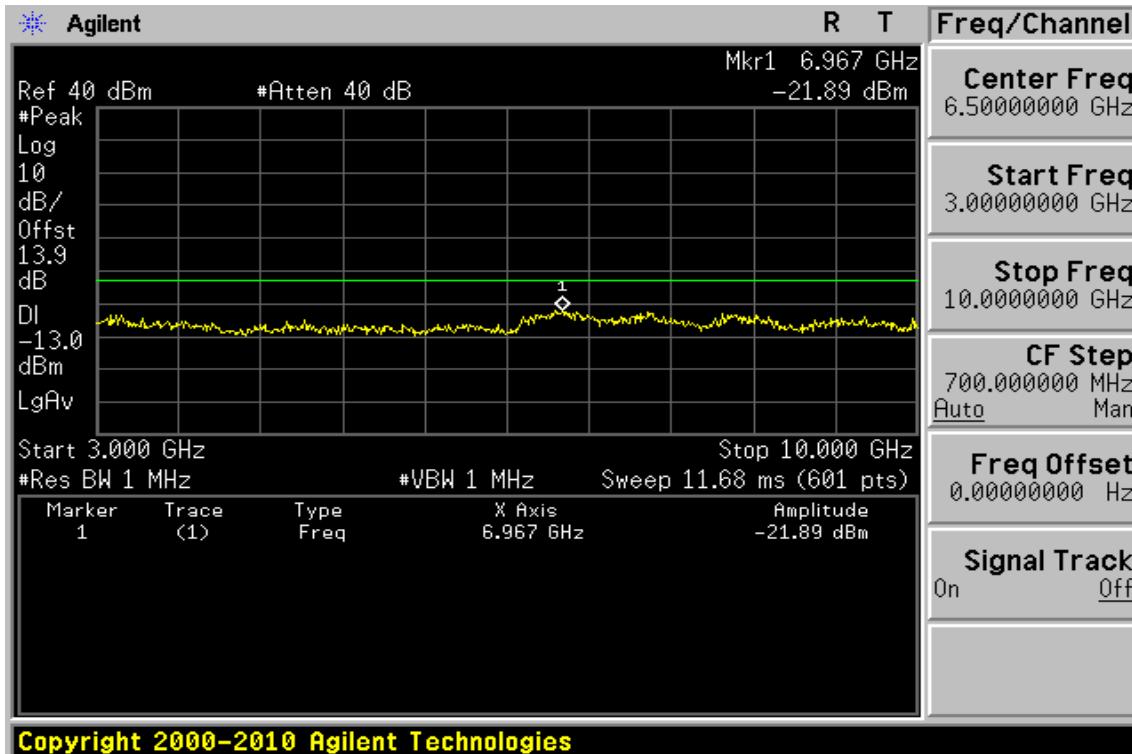
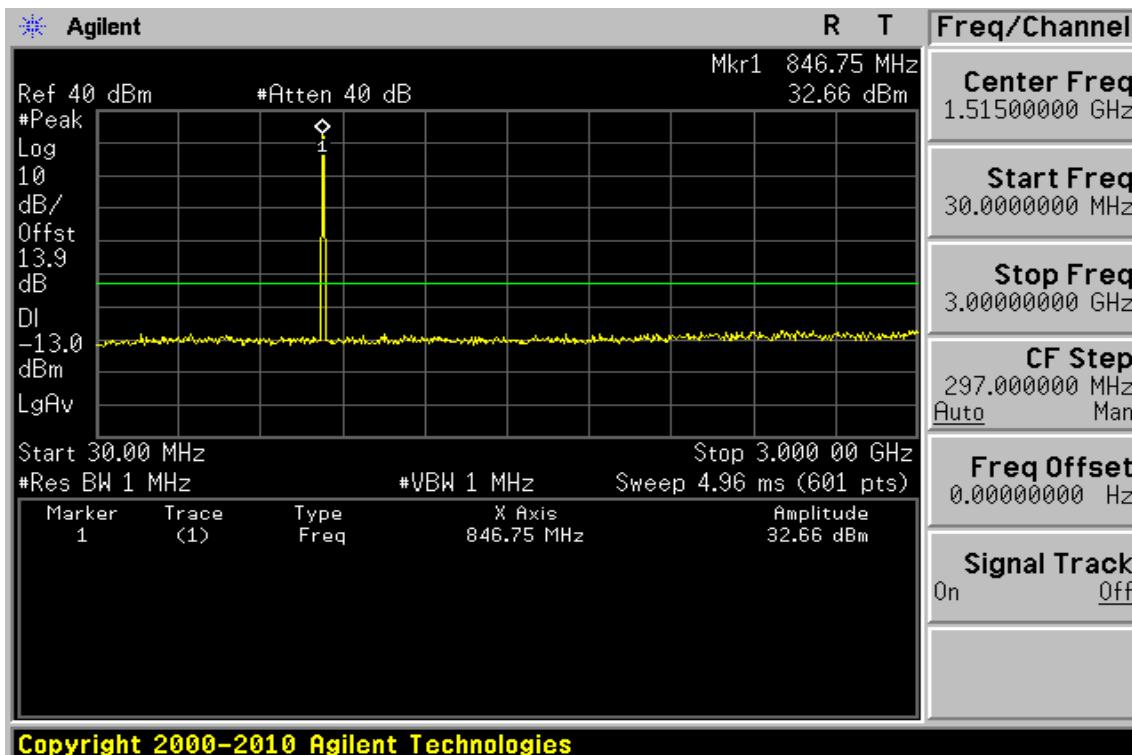
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Figure 9-13: Out of Band emission at antenna terminals – GPRS 850 Channel Highest



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

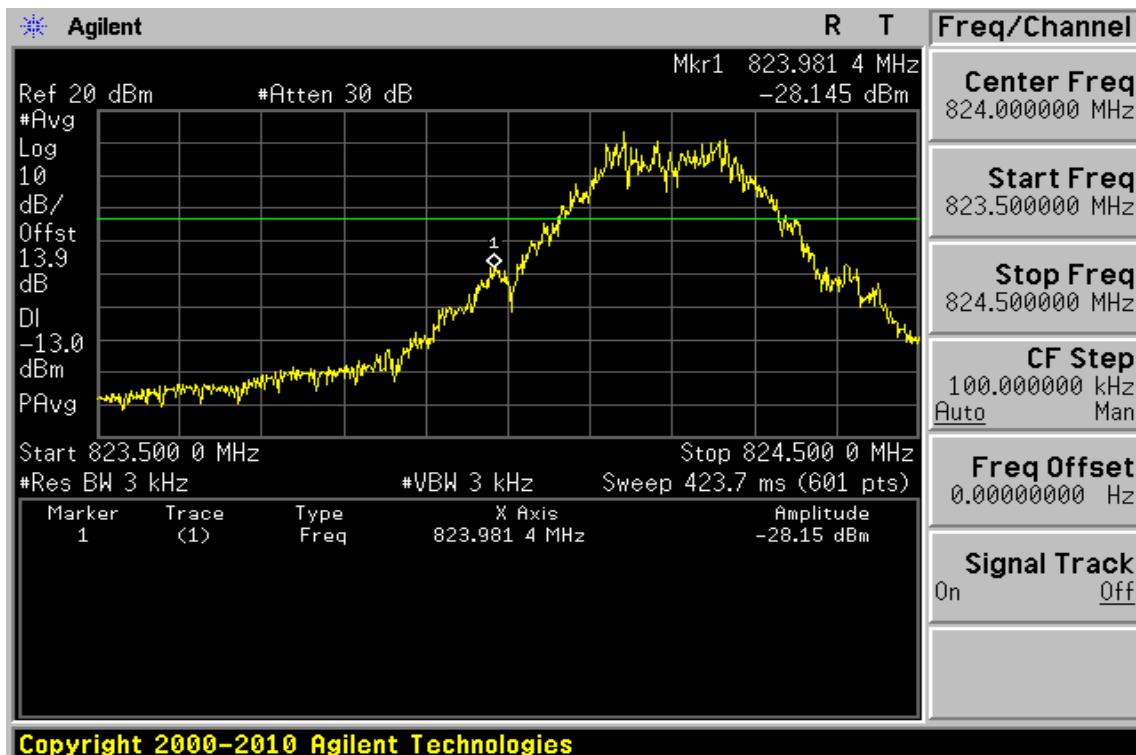
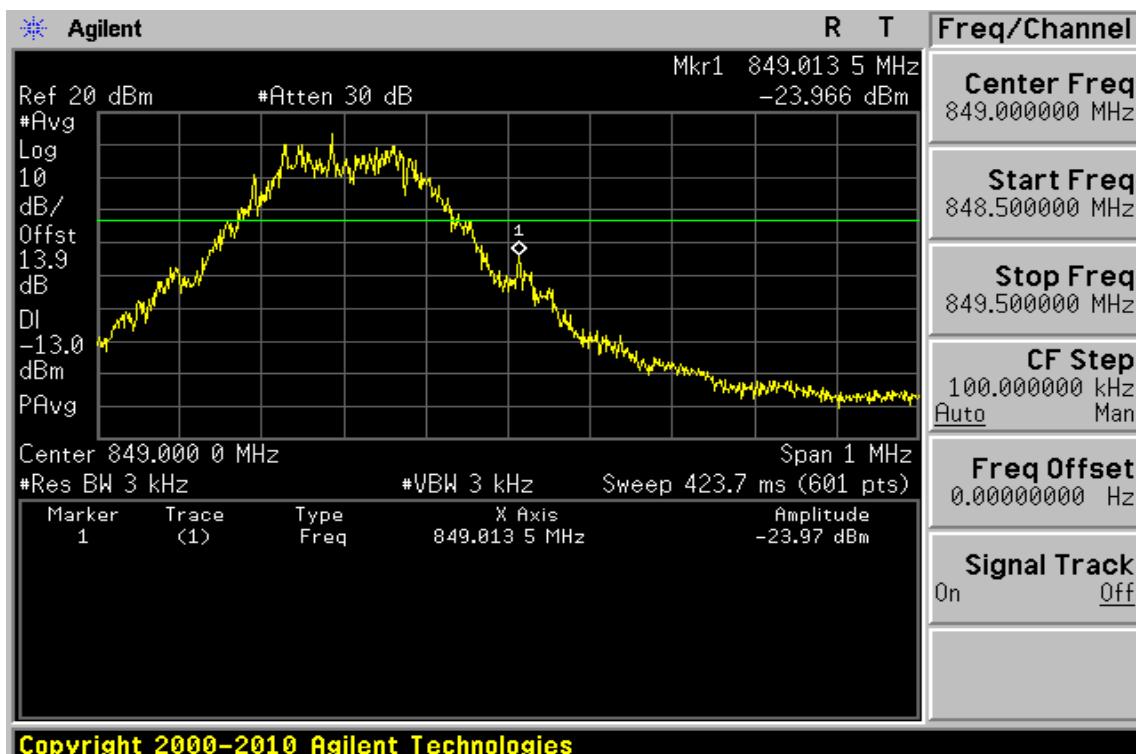


Figure 9-15: Band edge emission at antenna terminals – GPRS 850 Channel Highest



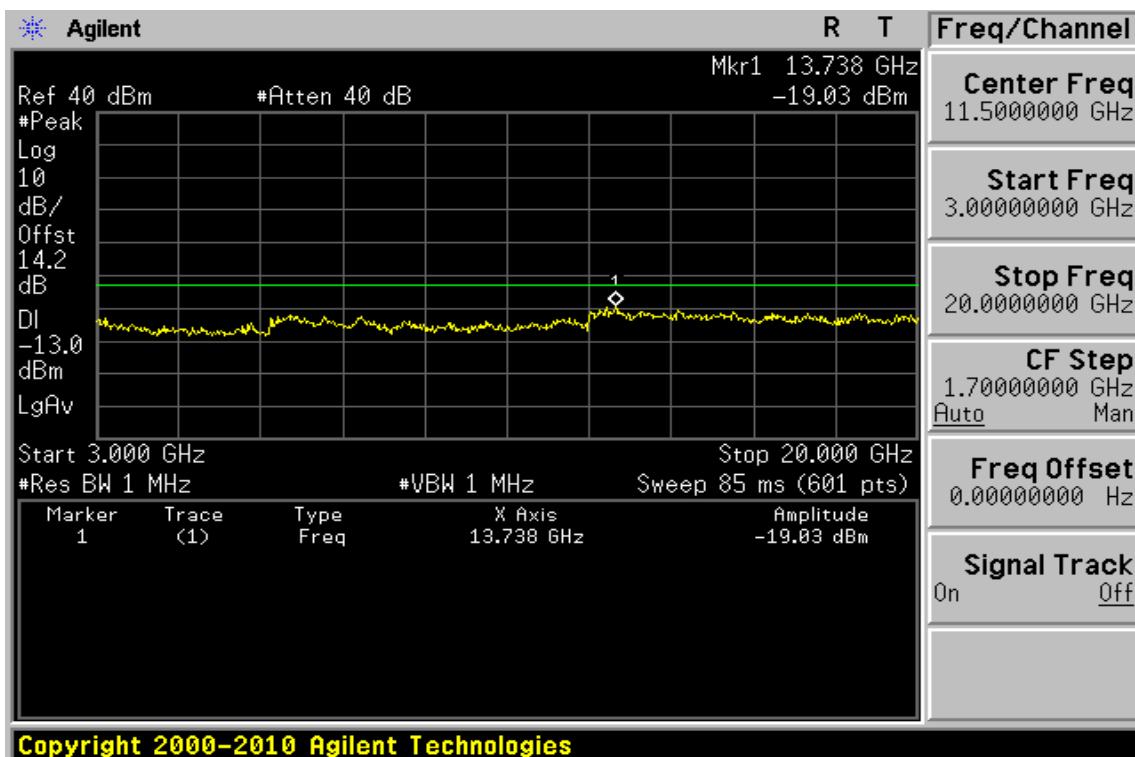
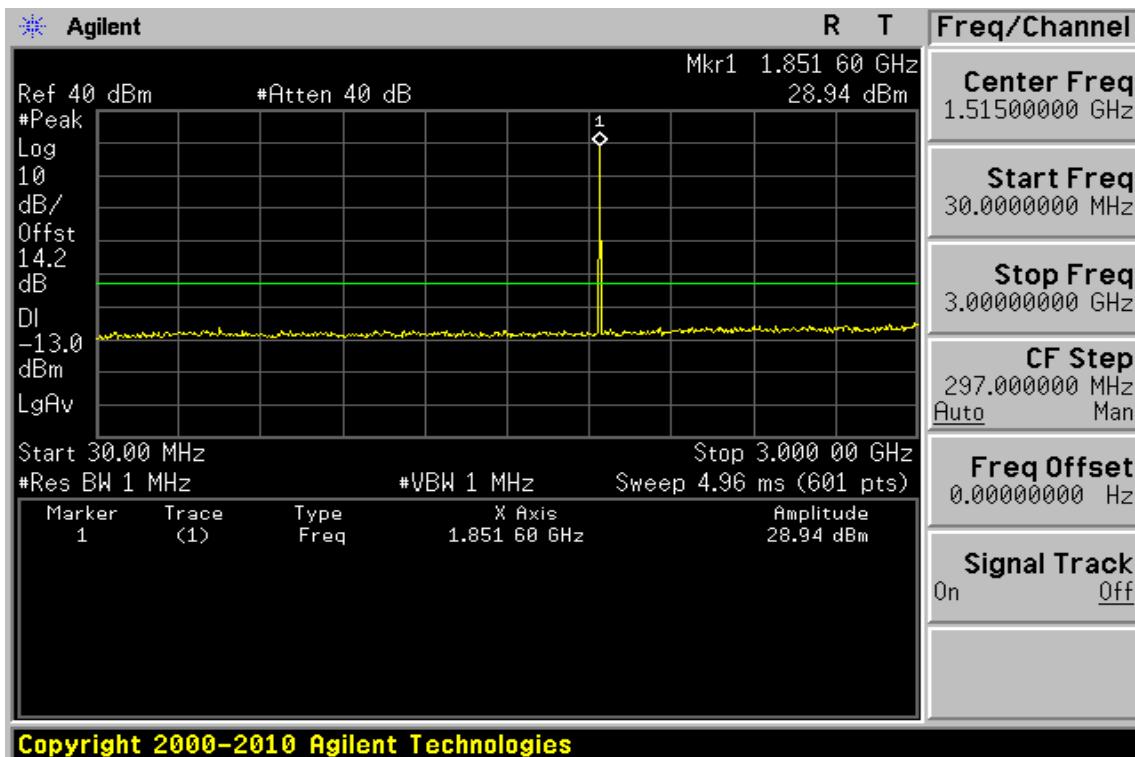
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Figure 9-16: Out of Band emission at antenna terminals – GPRS 1900 Channel Lowest



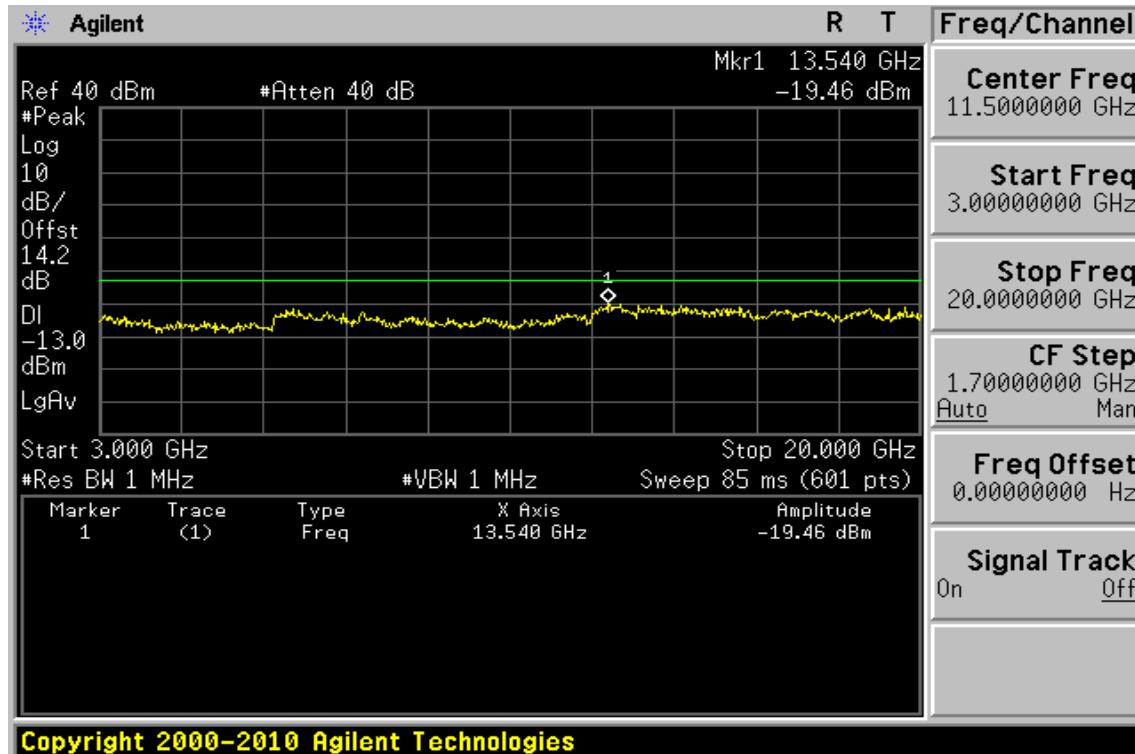
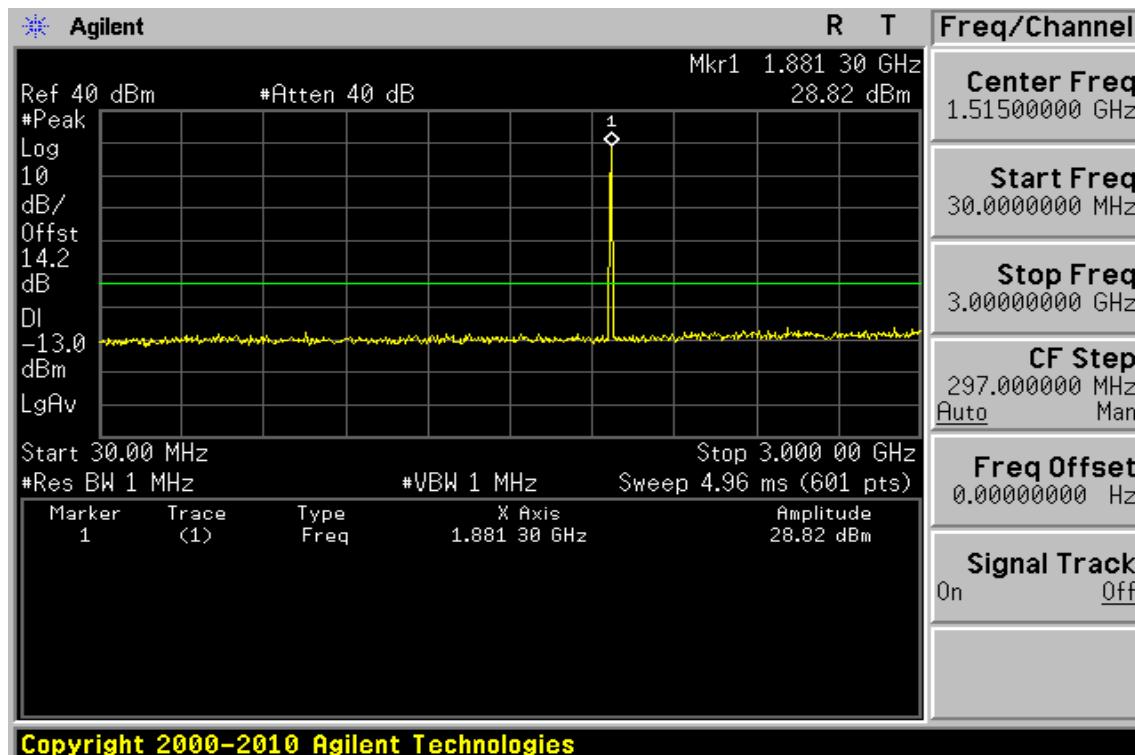
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Figure 9-17: Out of Band emission at antenna terminals – GPRS 1900 Channel Mid



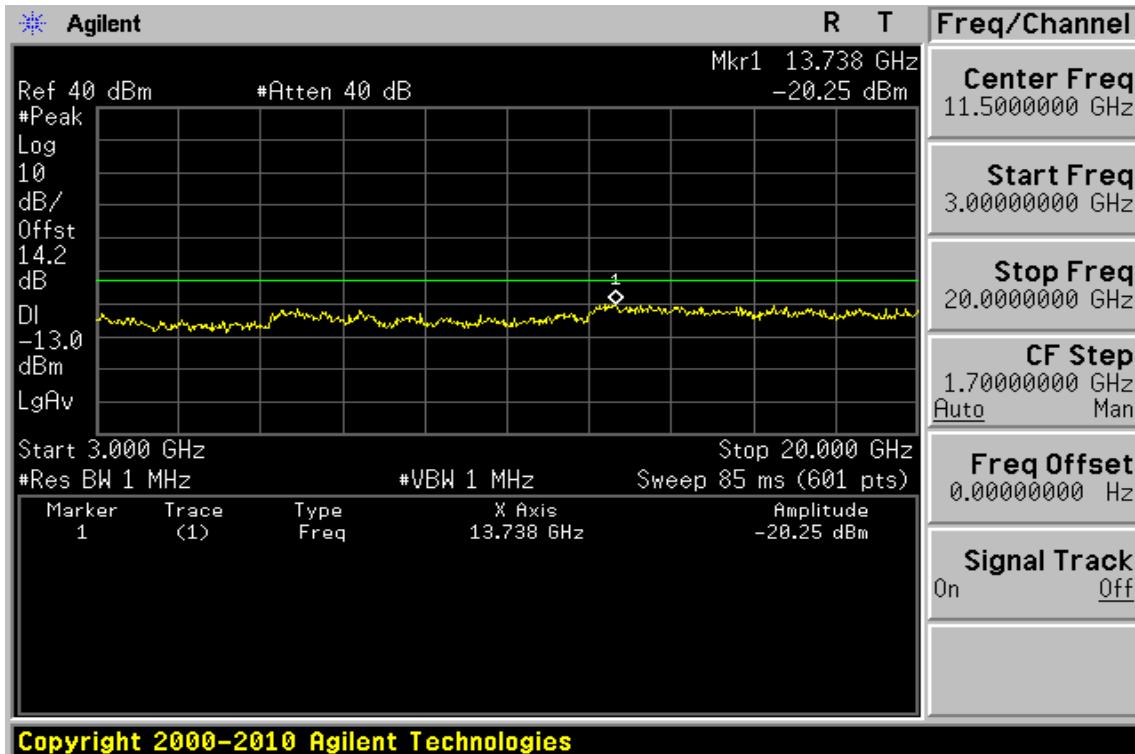
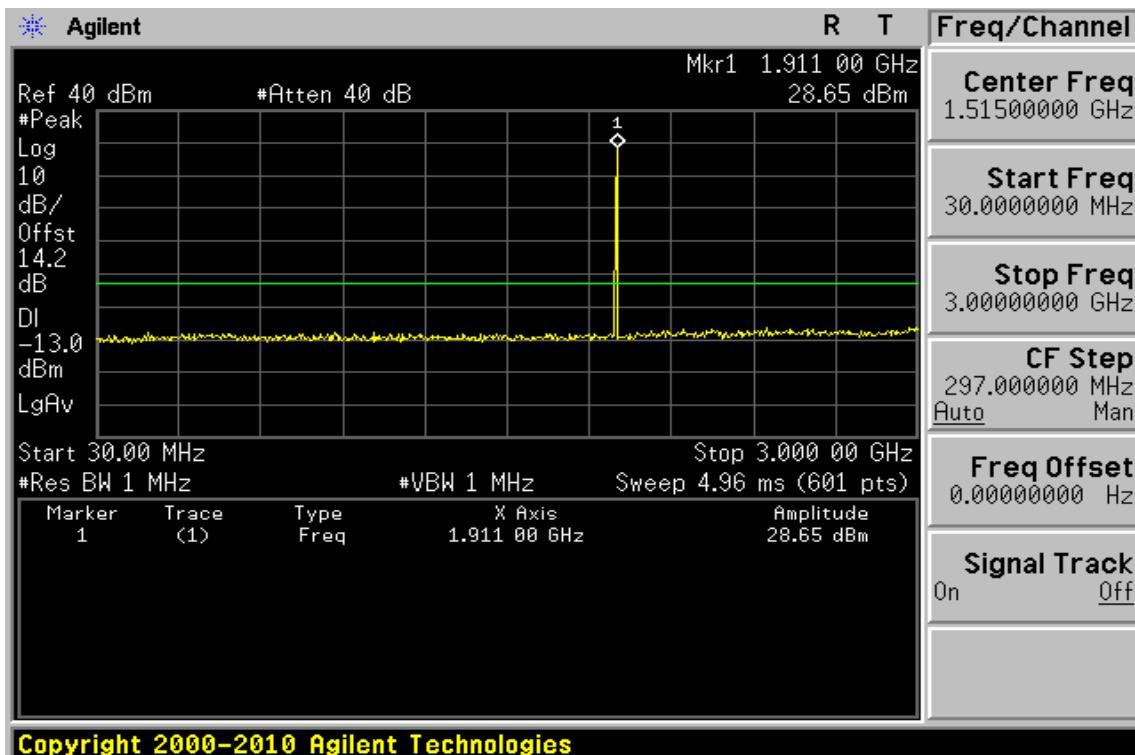
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Figure 9-18: Out of Band emission at antenna terminals – GPRS 1900 Channel Highest



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

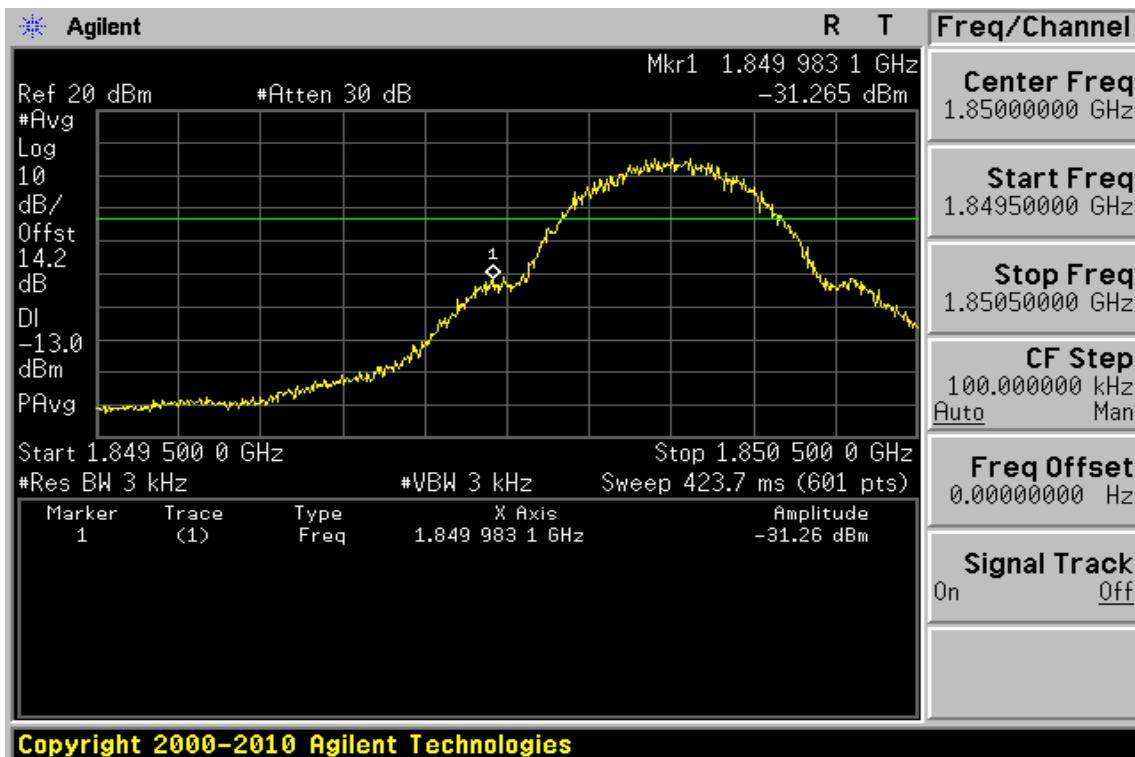
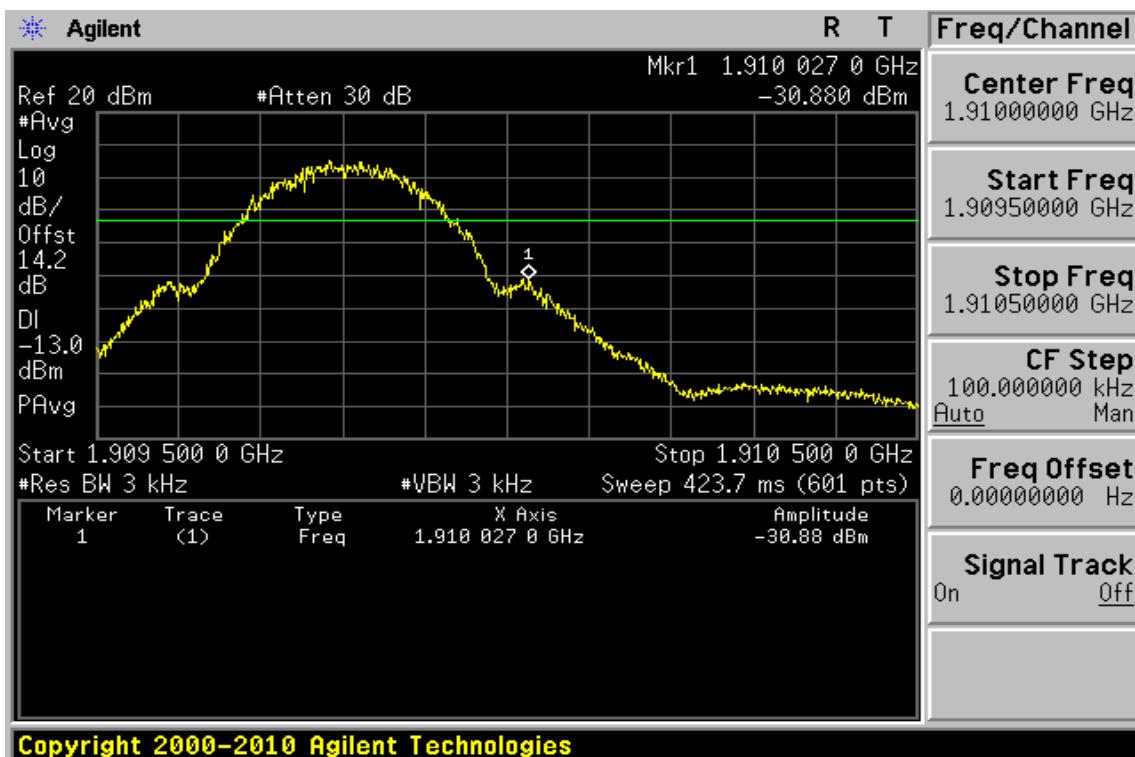


Figure 9-20: Band edge emission at antenna terminals – GPRS 1900 Channel Highest



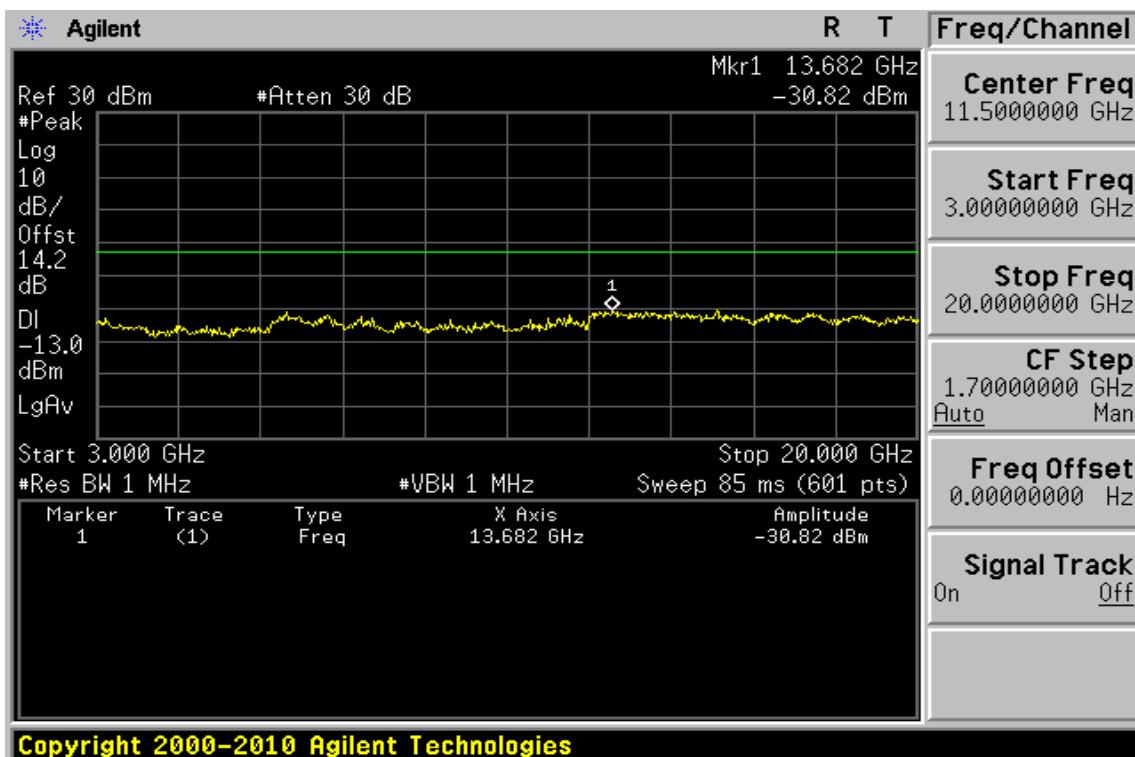
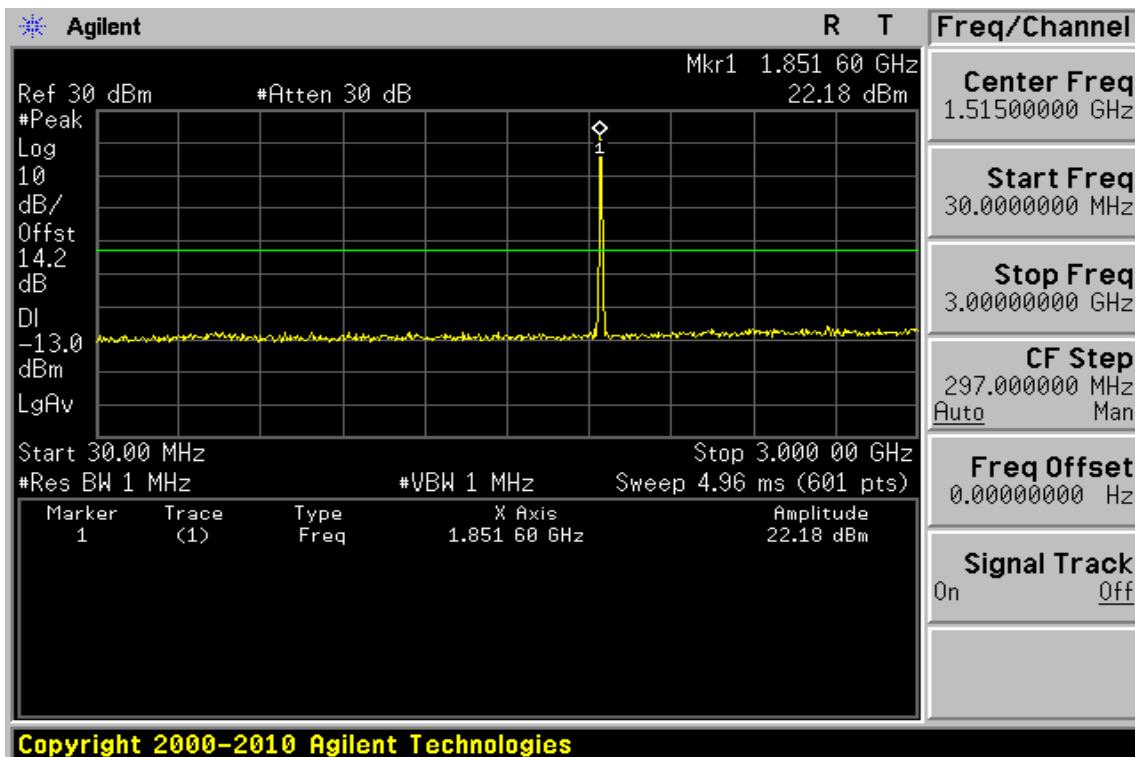
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Figure 9-21: Out of Band emission at antenna terminals – WCDMA II Channel Lowest



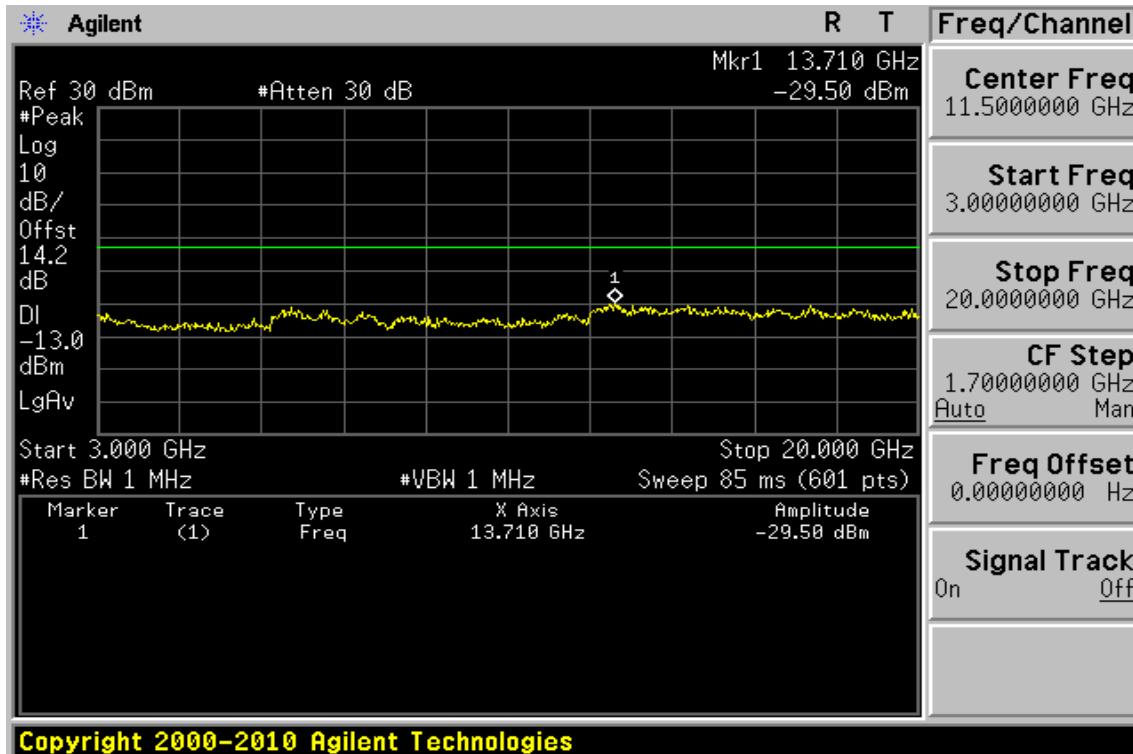
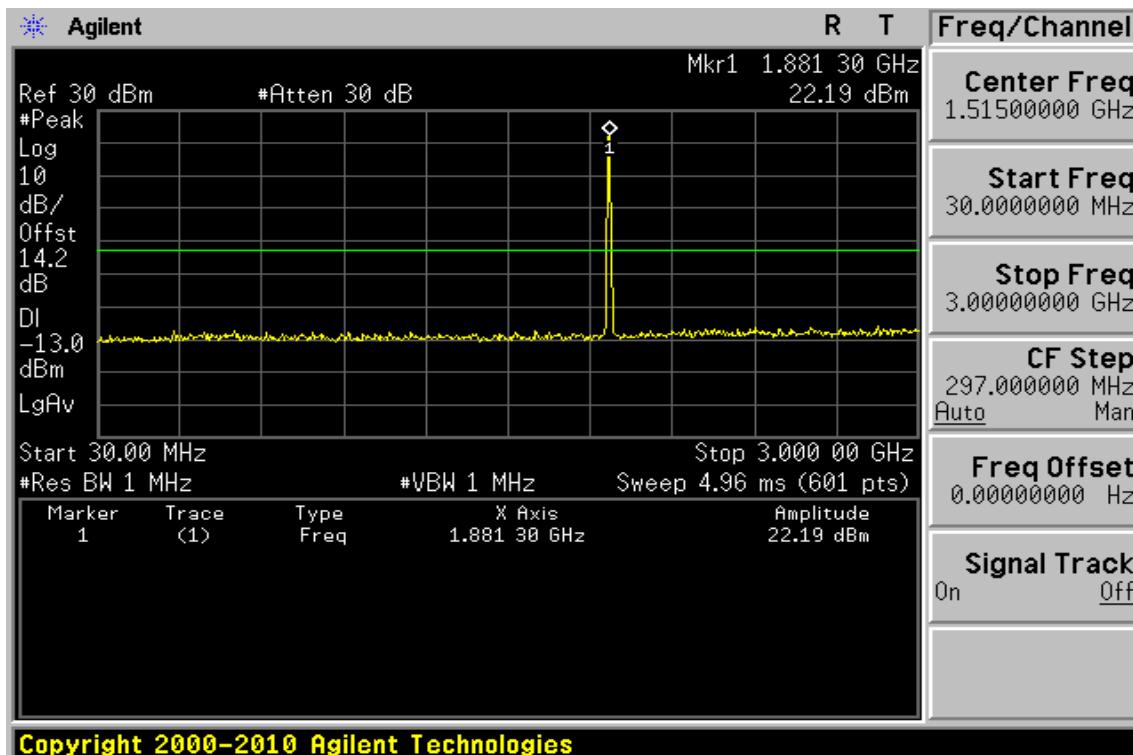
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Figure 9-22: Out of Band emission at antenna terminals – WCDMA II Channel Mid



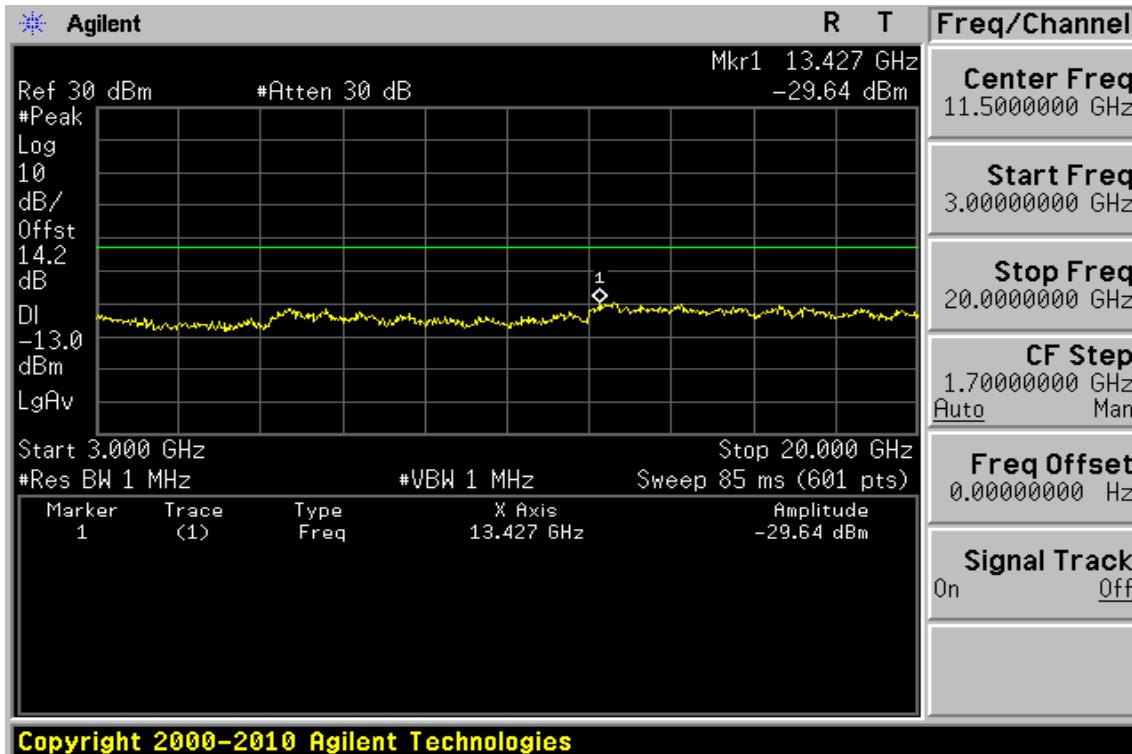
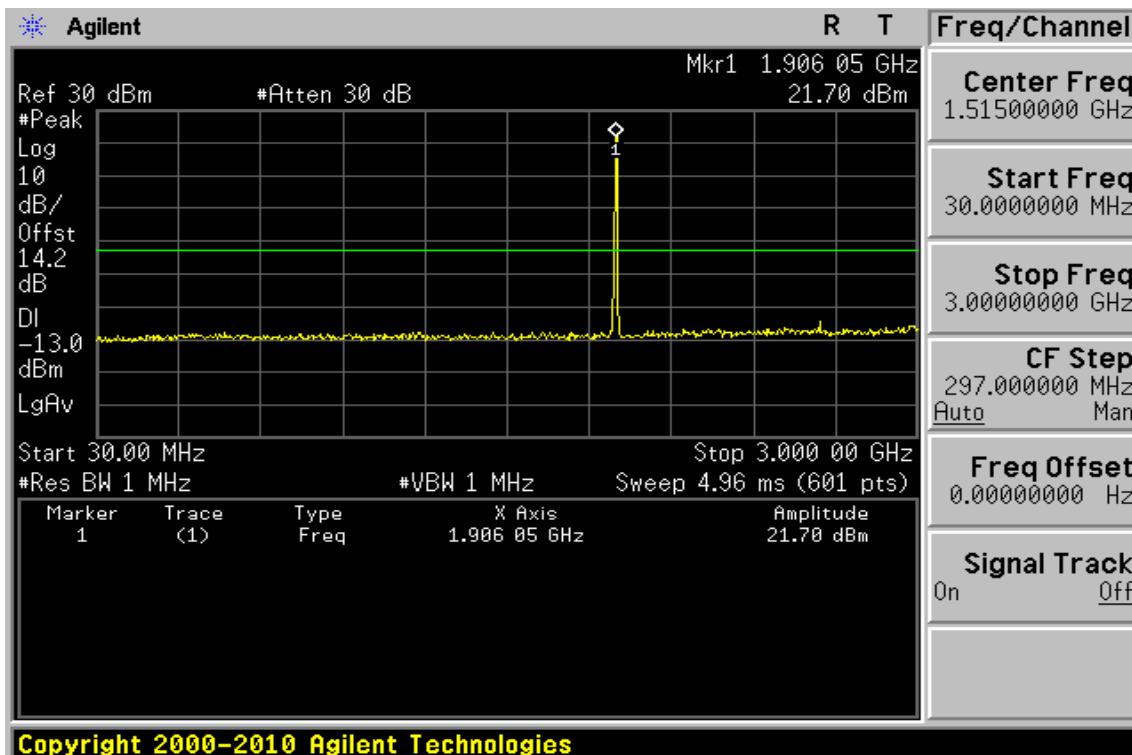
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Figure 9-23: Out of Band emission at antenna terminals – WCDMA II Channel Highest



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Figure 9-24: Band edge emission at antenna terminals – WCDMA II Channel Lowest

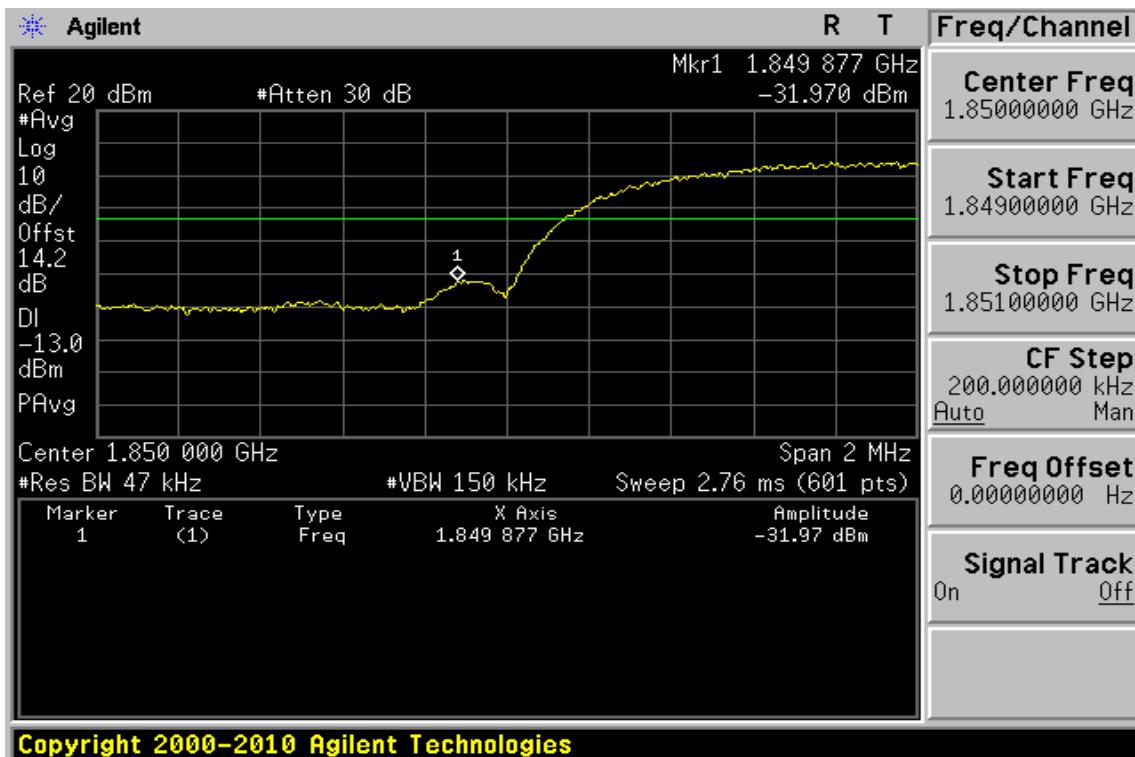
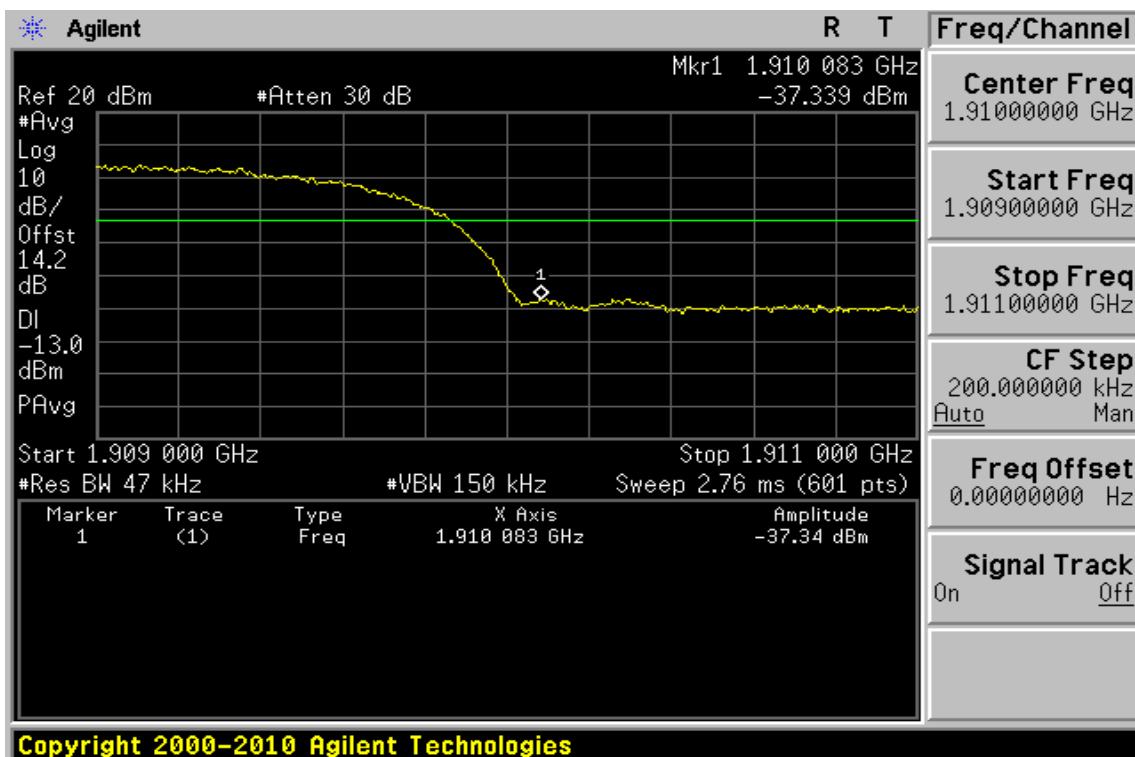


Figure 9-25: Band edge emission at antenna terminals – WCDMA II Channel Highest



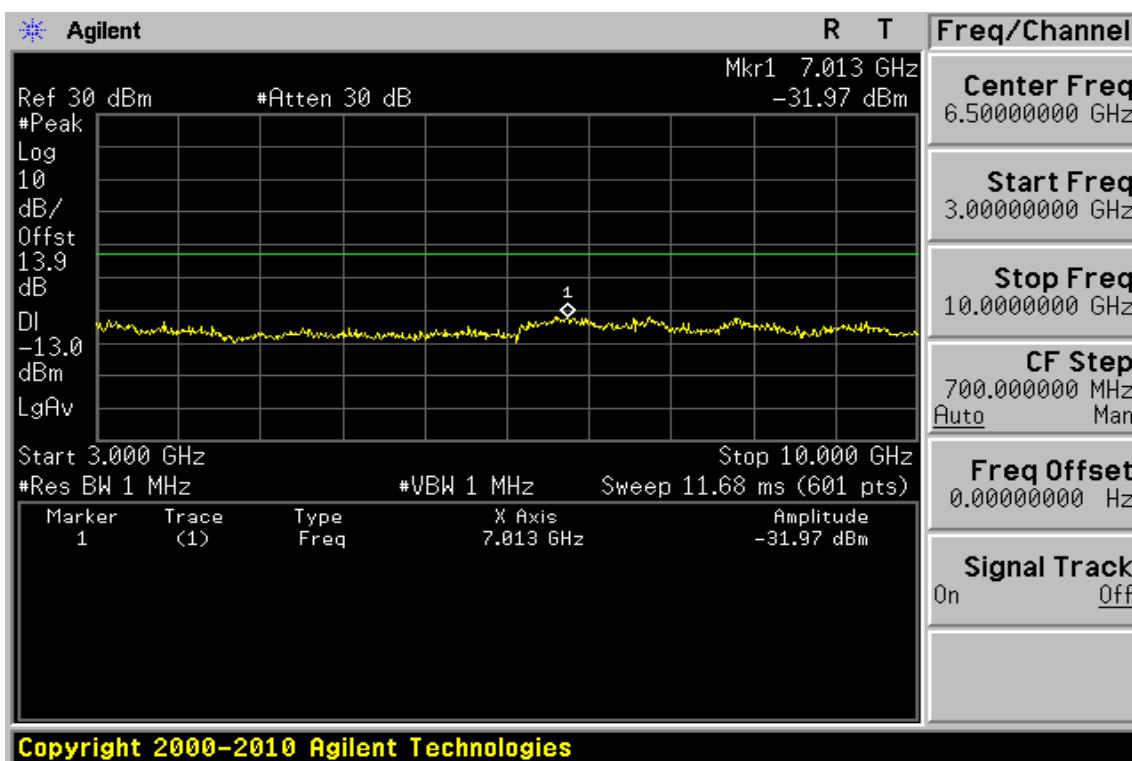
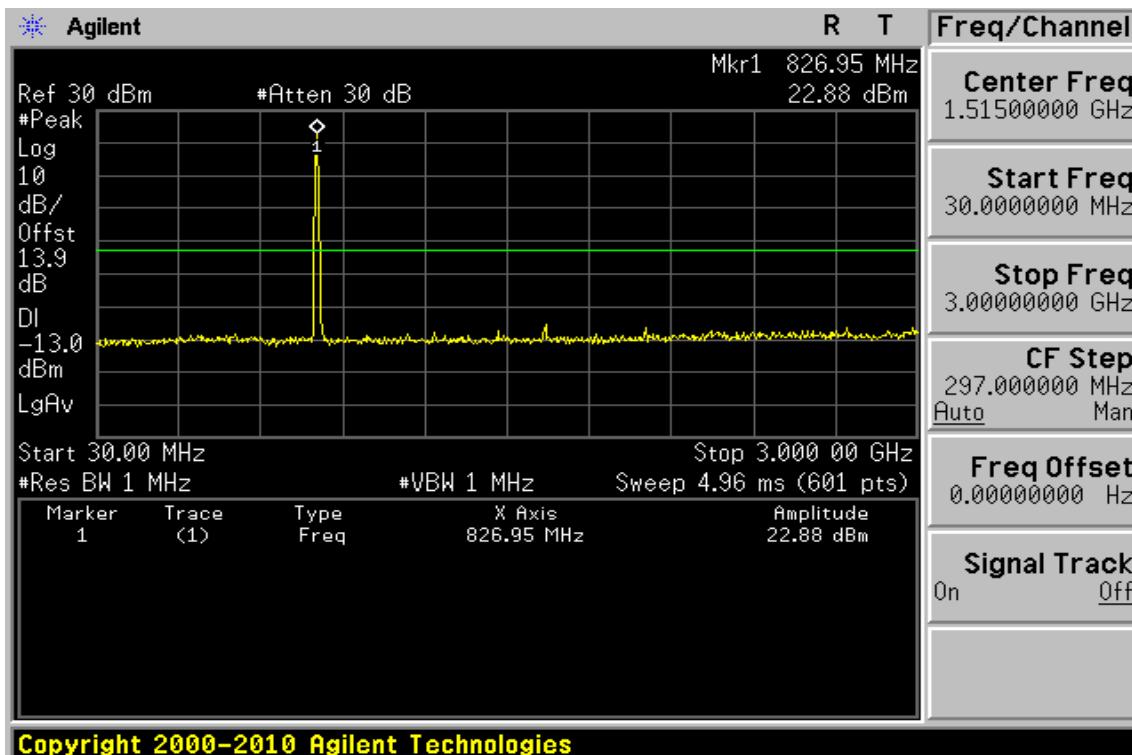
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Figure 9-26: Out of Band emission at antenna terminals – WCDMA V Channel Lowest



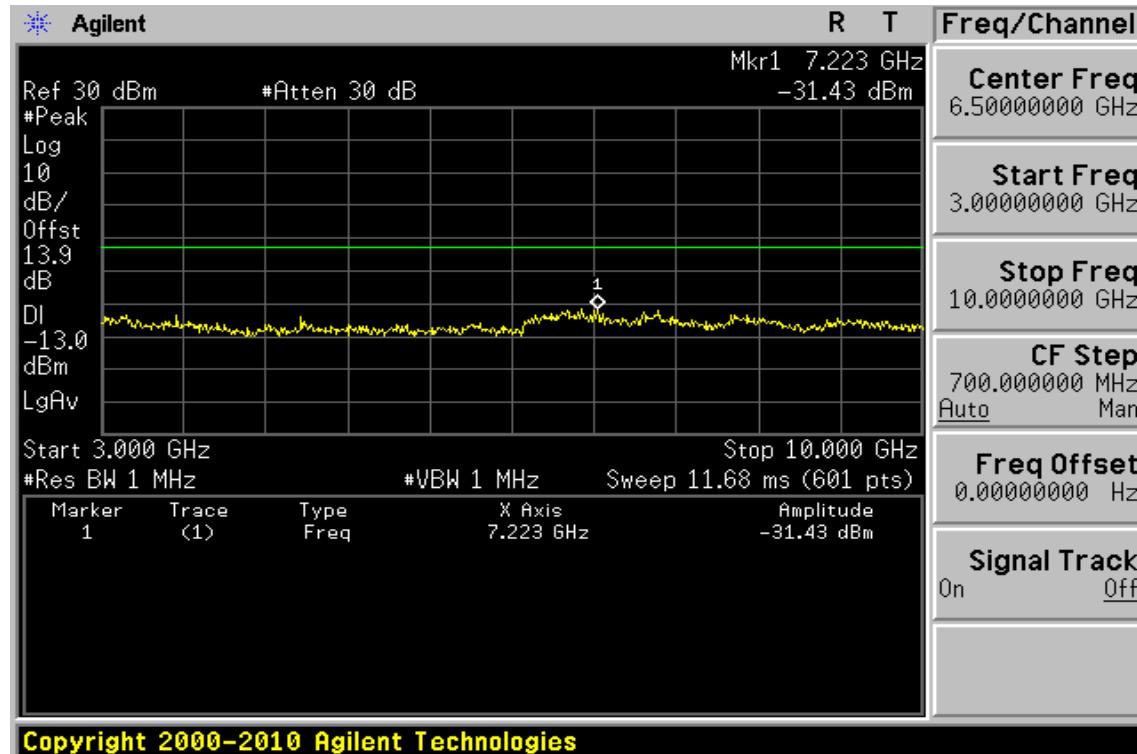
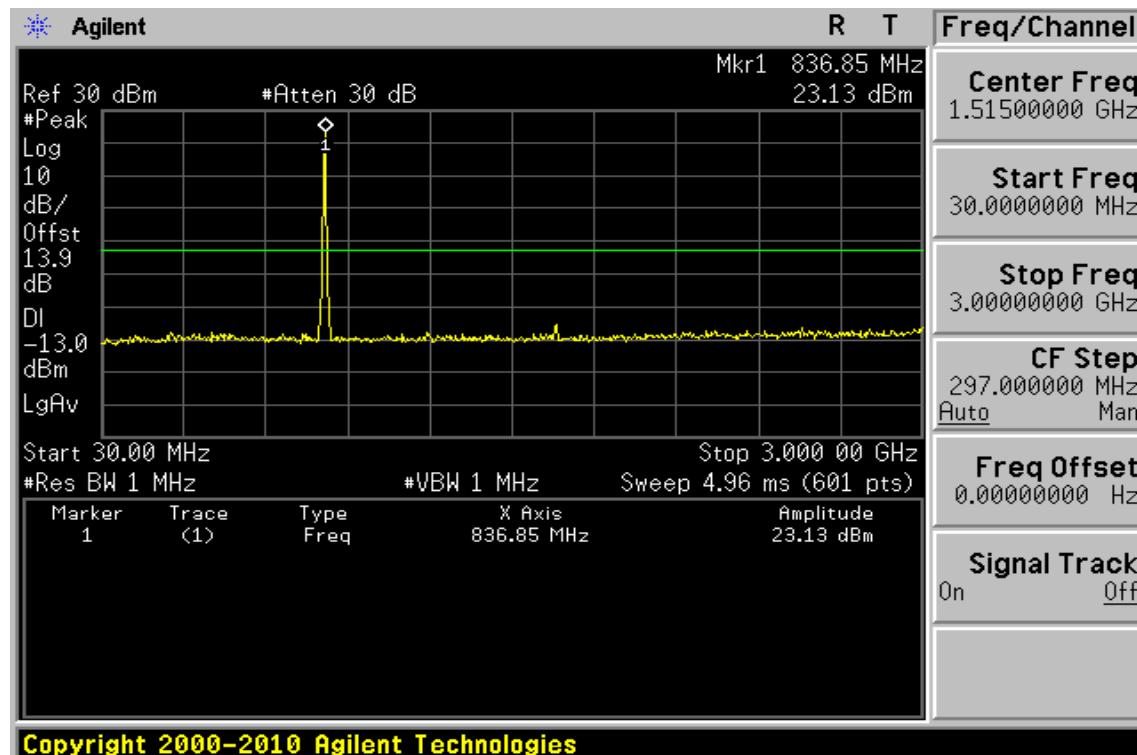
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Figure 9-27: Out of Band emission at antenna terminals – WCDMA V Channel Mid



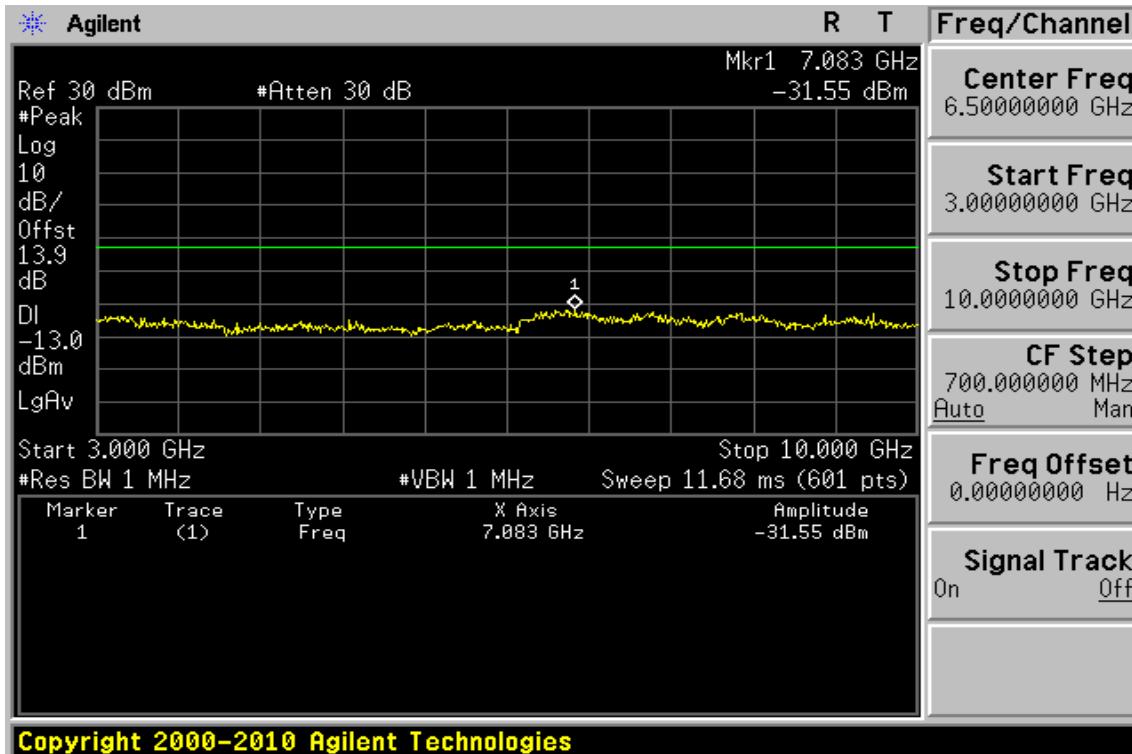
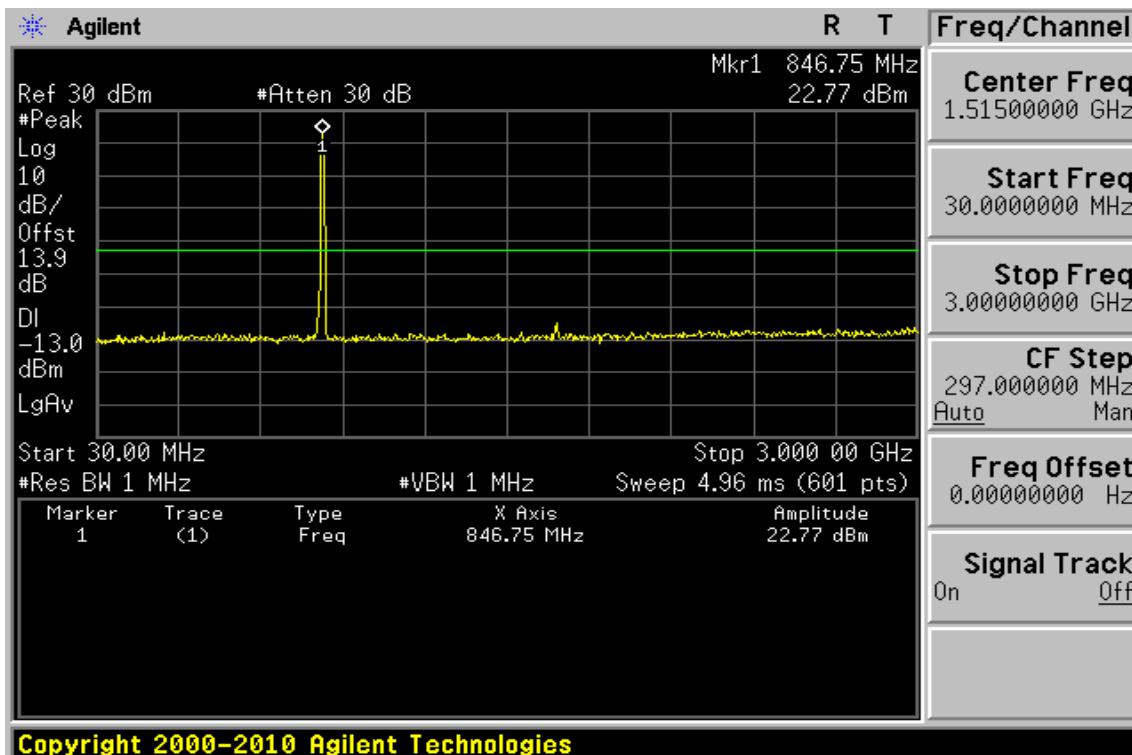
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Figure 9-28: Out of Band emission at antenna terminals – WCDMA V Channel Highest



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Figure 9-29: Band edge emission at antenna terminals – WCDMA V Channel Lowest

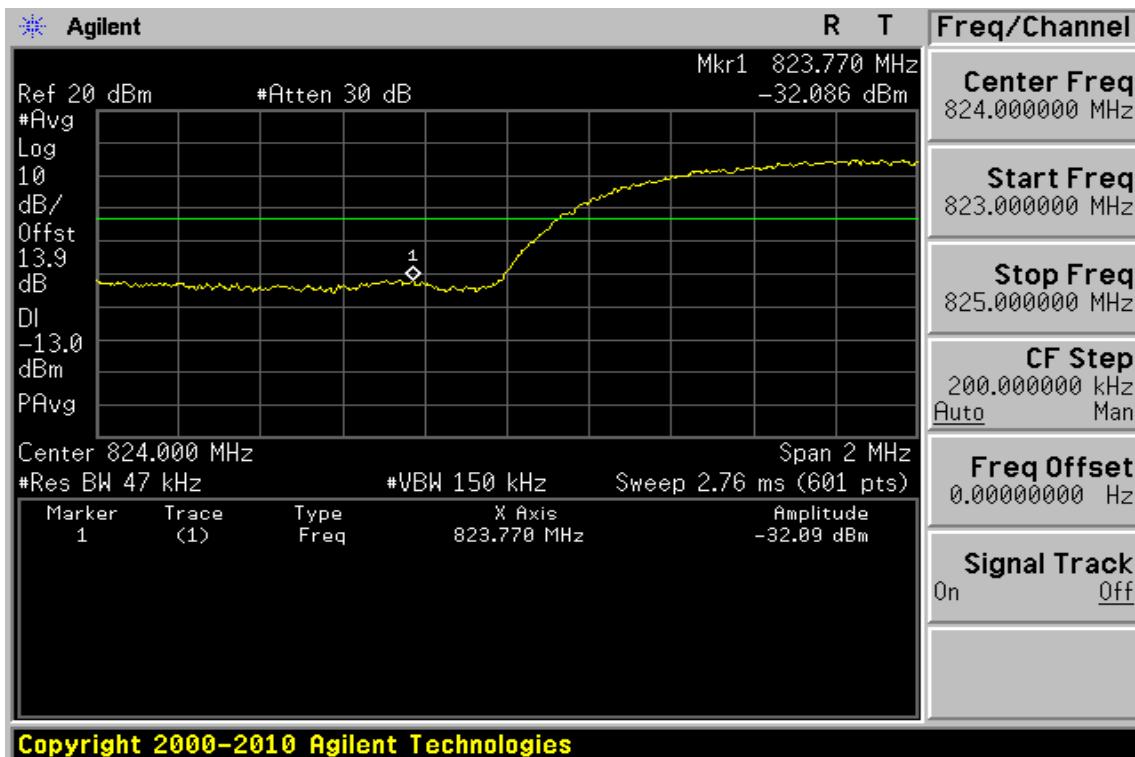
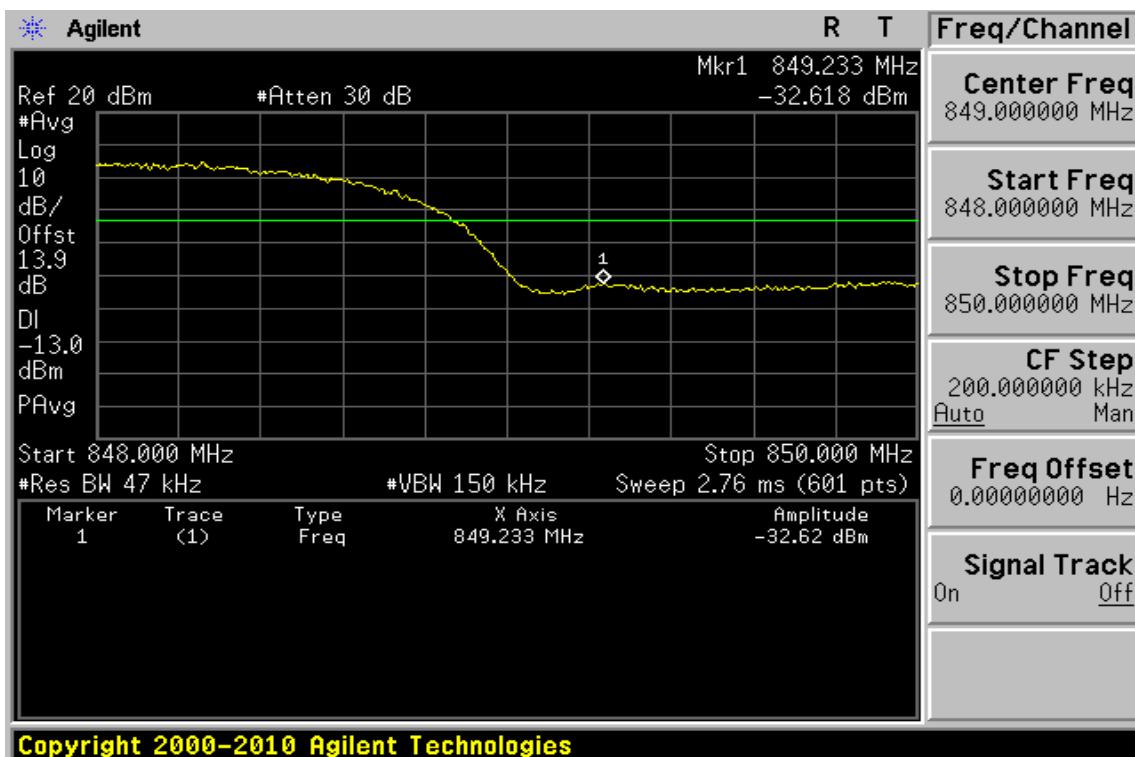


Figure 9-30: Band edge emission at antenna terminals – WCDMA V Channel Highest



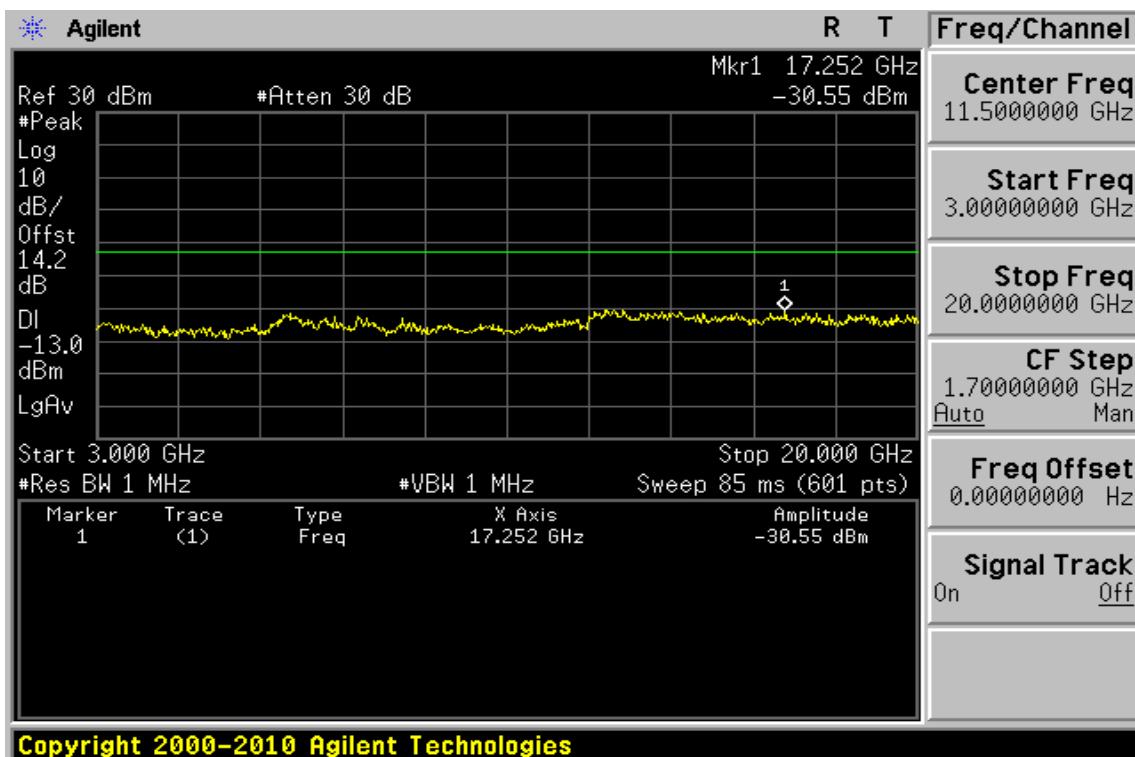
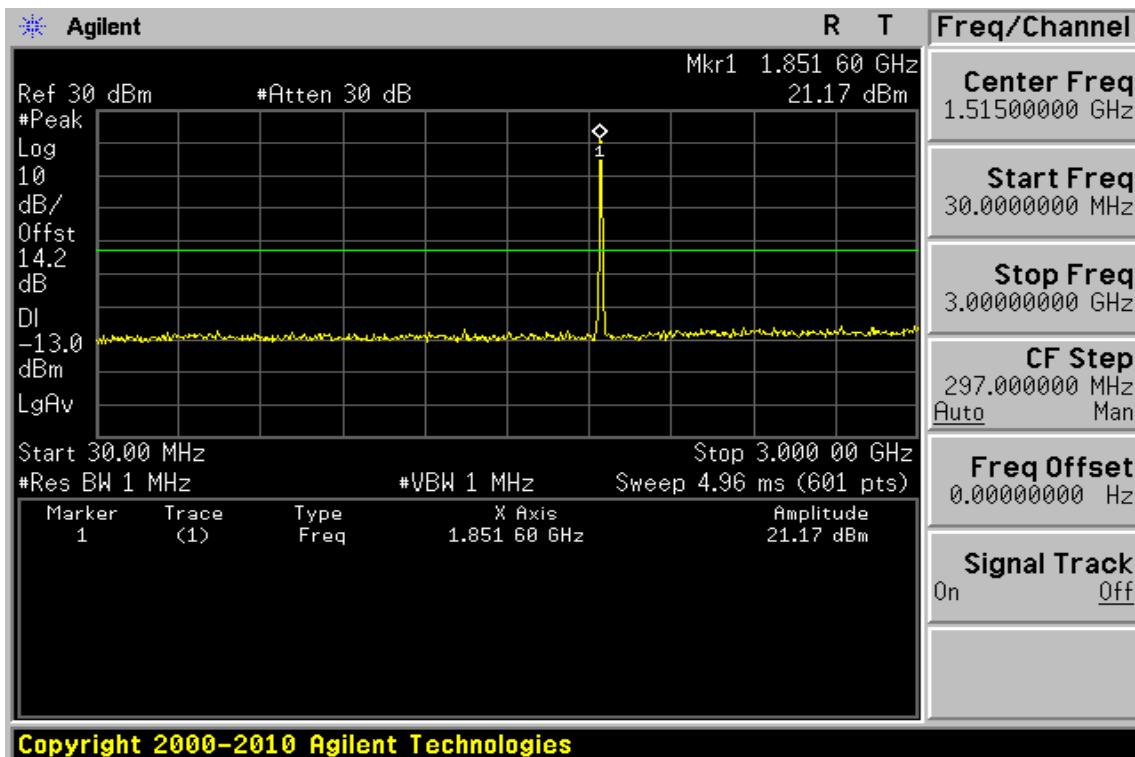
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Figure 9-31: Out of Band emission at antenna terminals – HSDPA II Channel Lowest



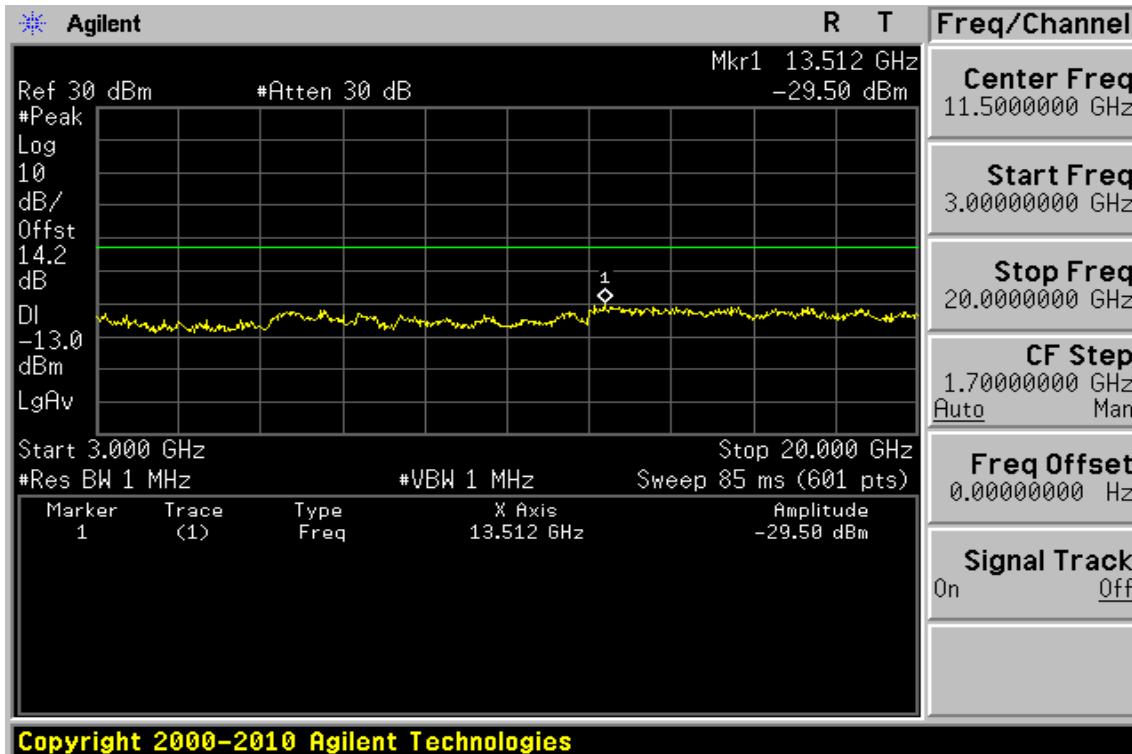
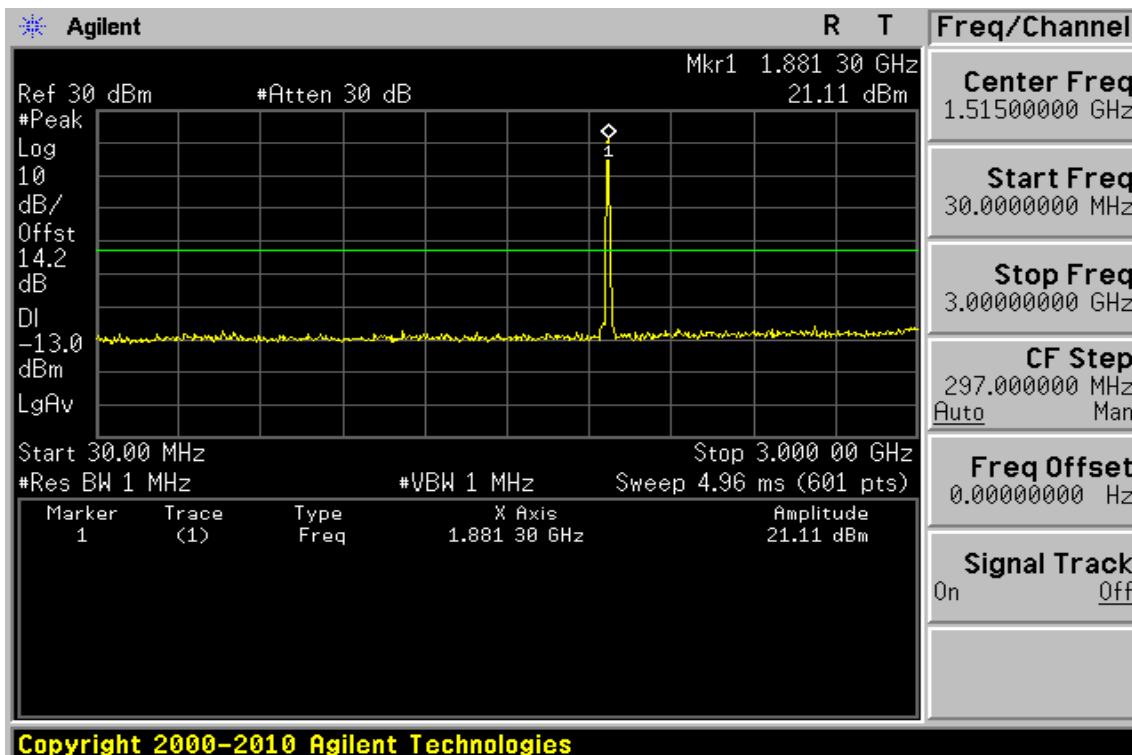
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Figure 9-32: Out of Band emission at antenna terminals – HSDPA II Channel Mid



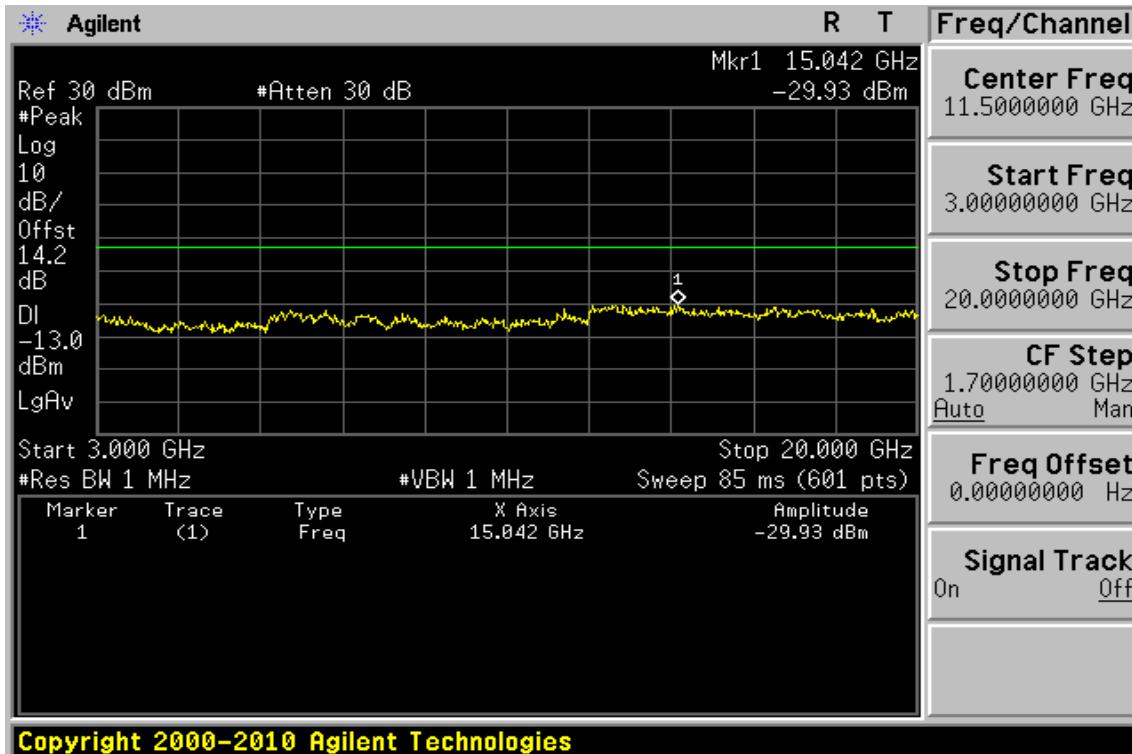
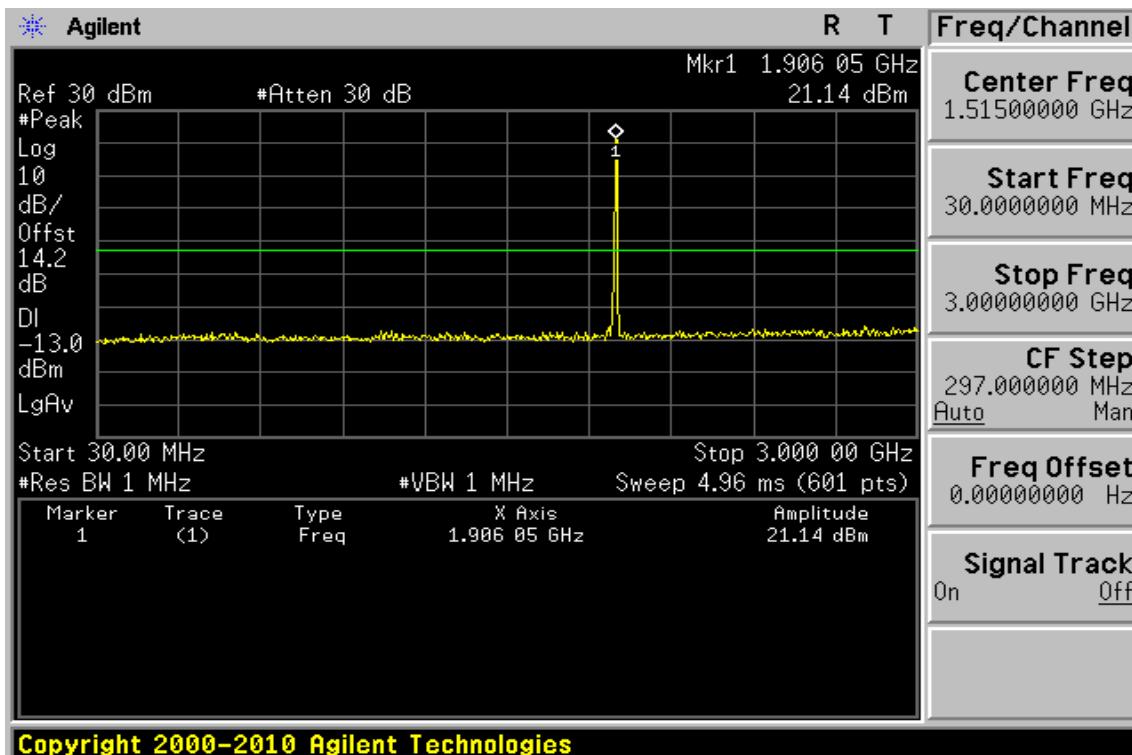
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Figure 9-33: Out of Band emission at antenna terminals – HSDPA II Channel Highest



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

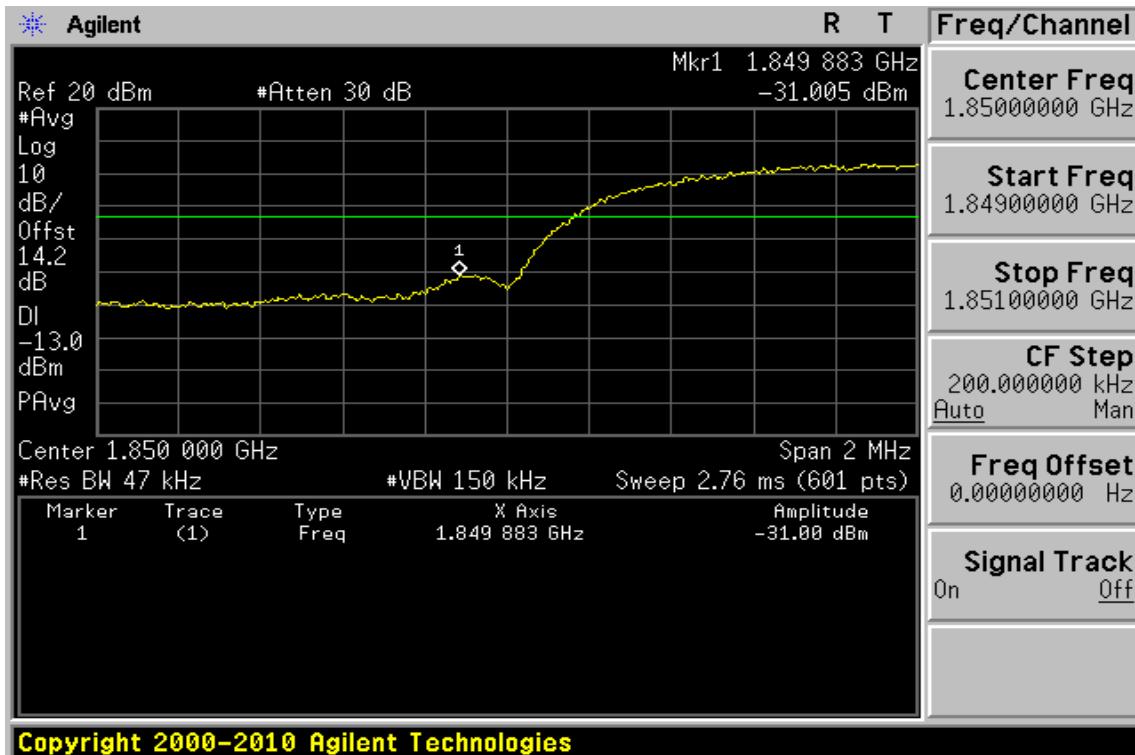


Figure 9-35: Band edge emission at antenna terminals – HSUPA II Channel Highest



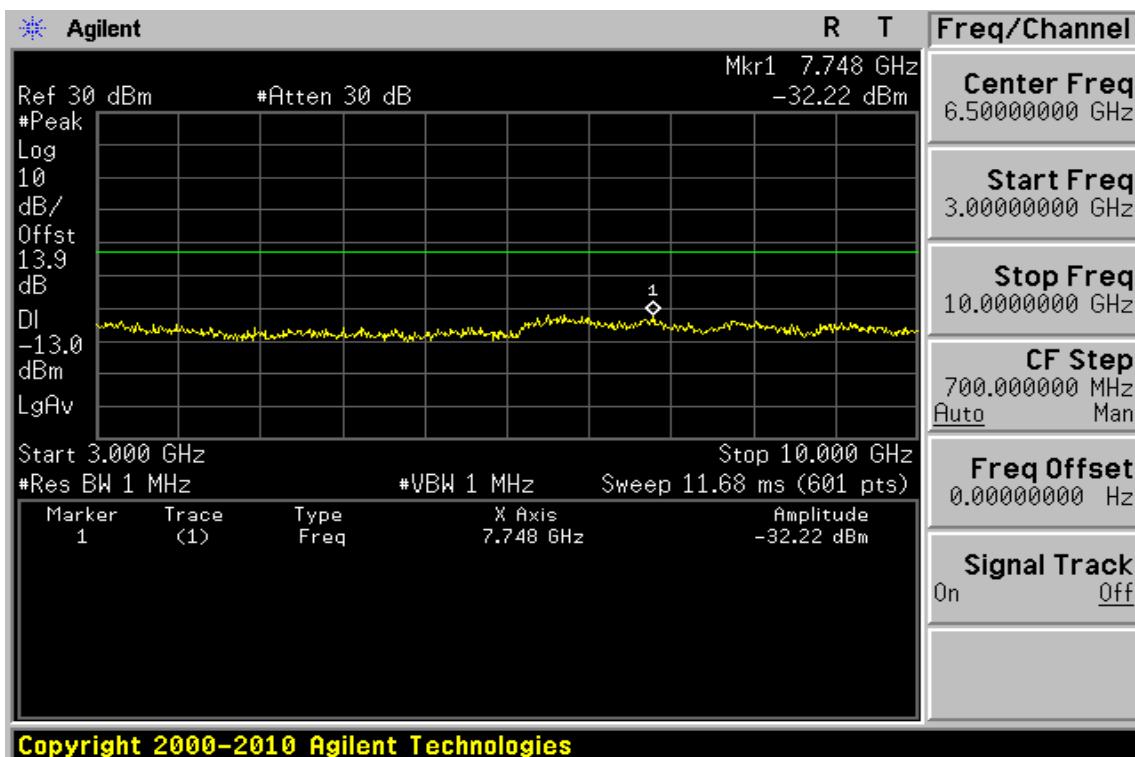
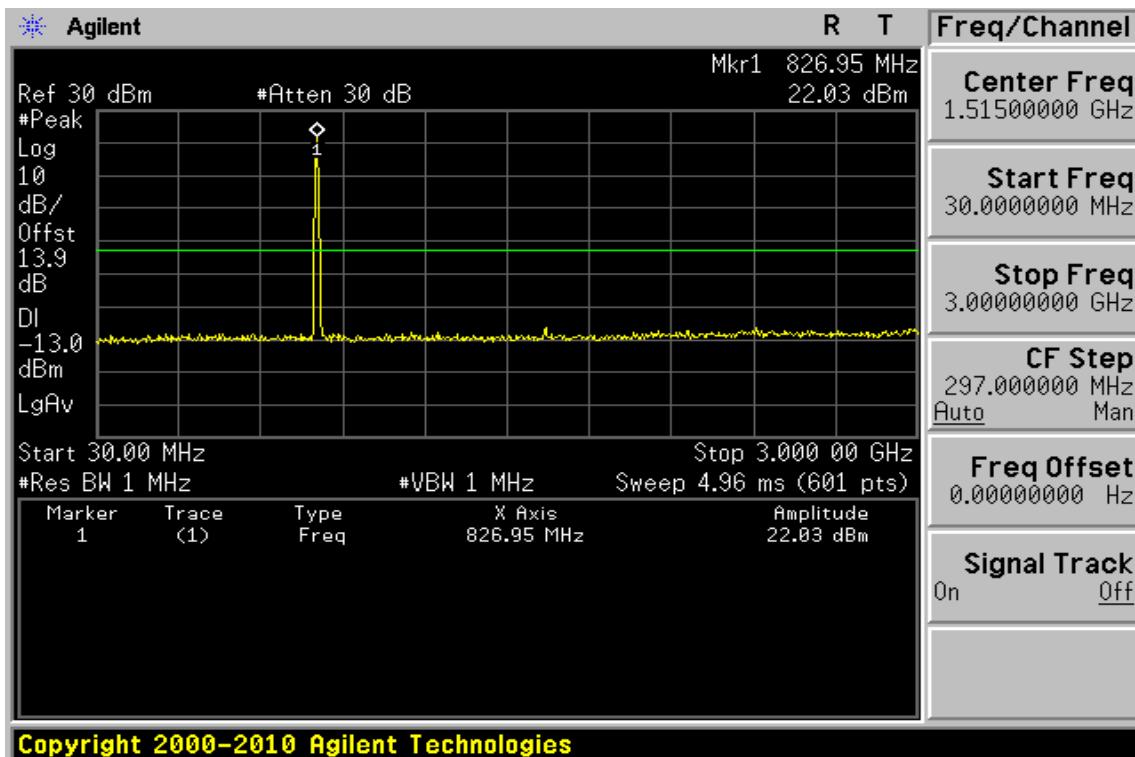
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Figure 9-36: Out of Band emission at antenna terminals – HSDPA V Channel Lowest

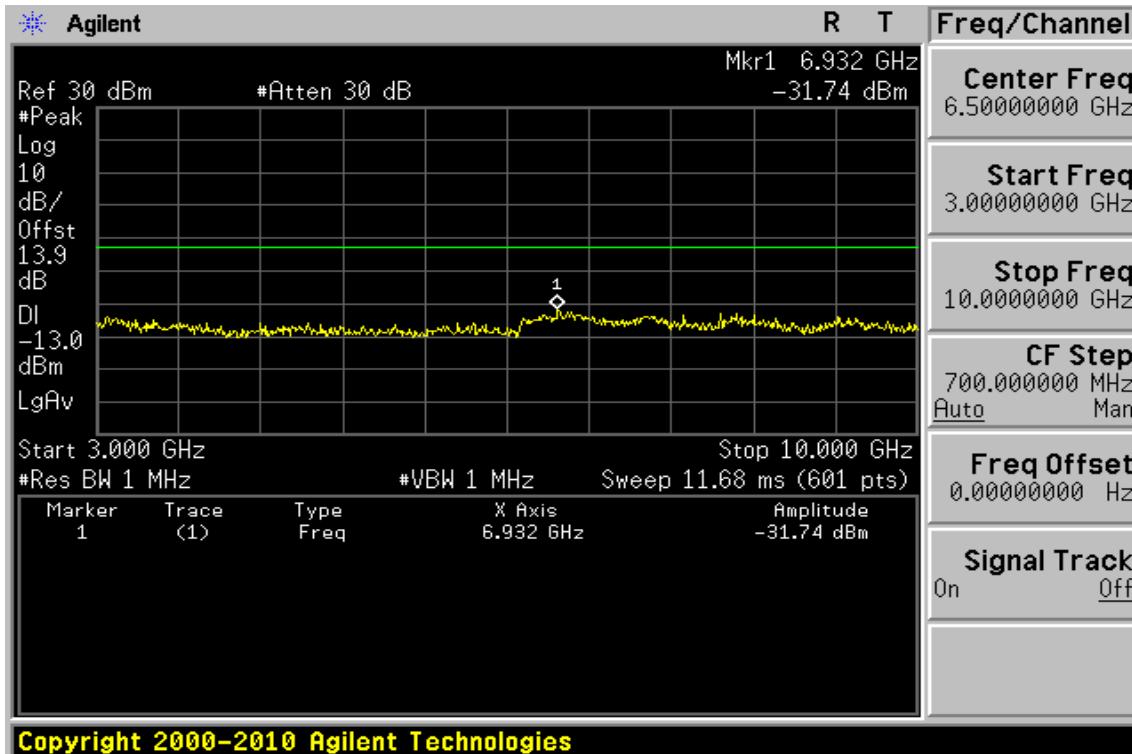
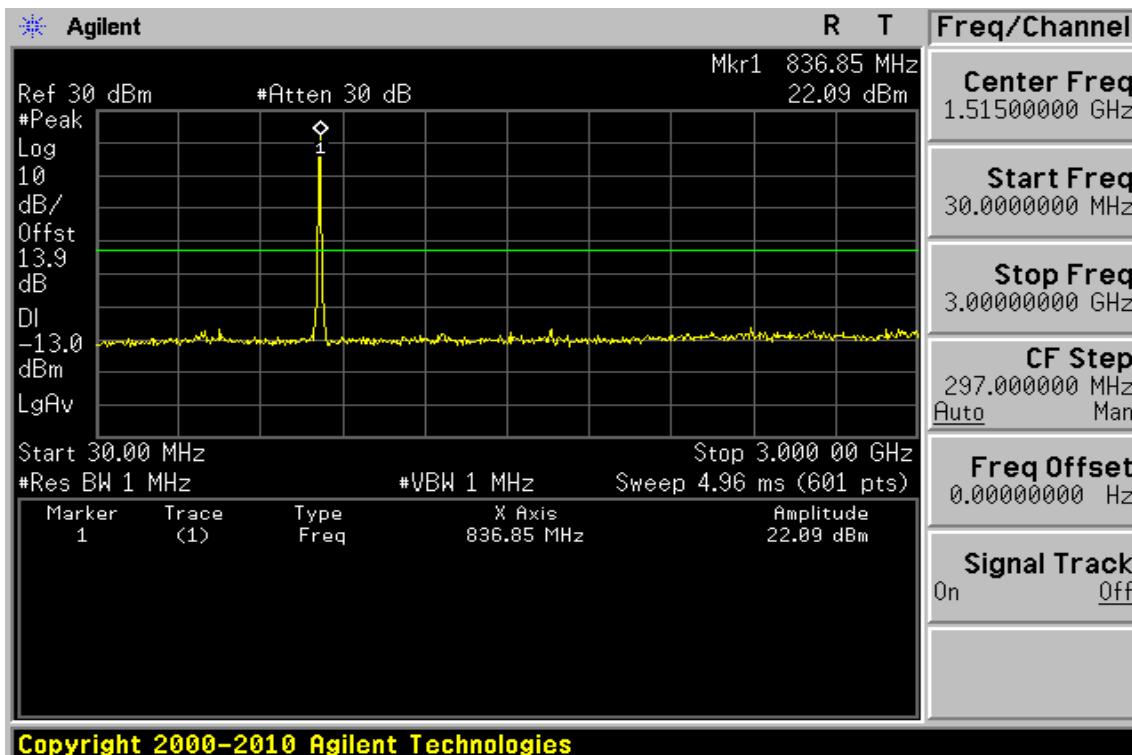


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Figure 9-37: Out of Band emission at antenna terminals – HSDPA V Channel Mid



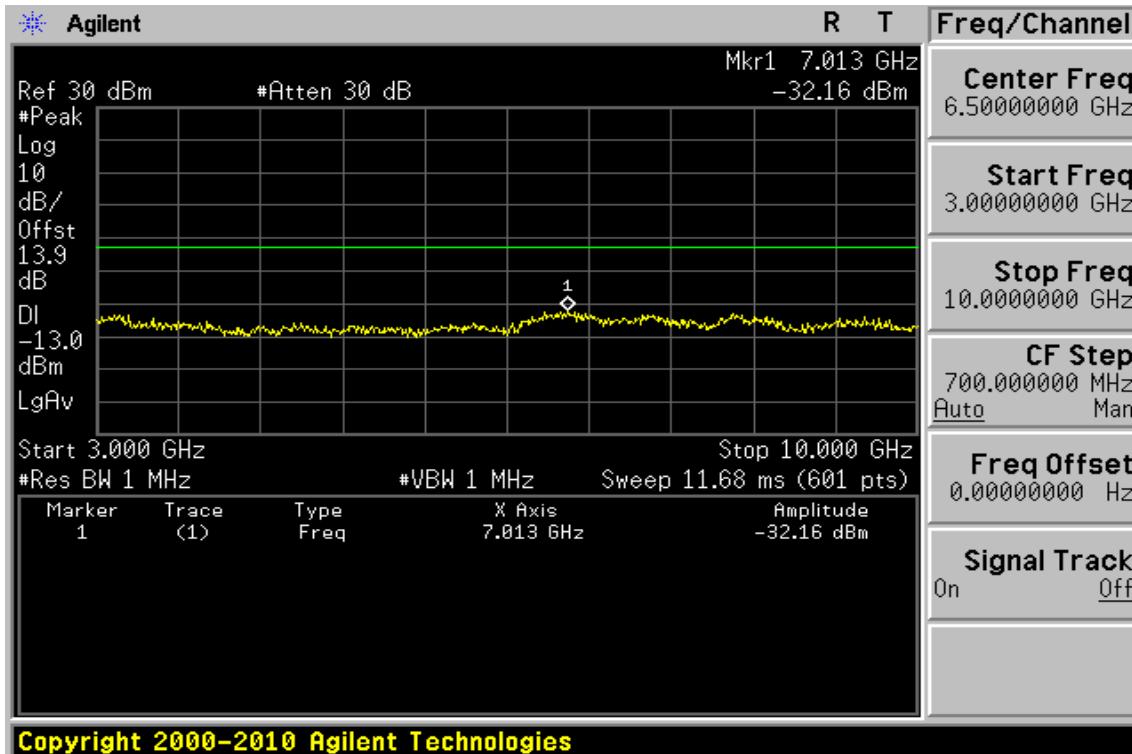
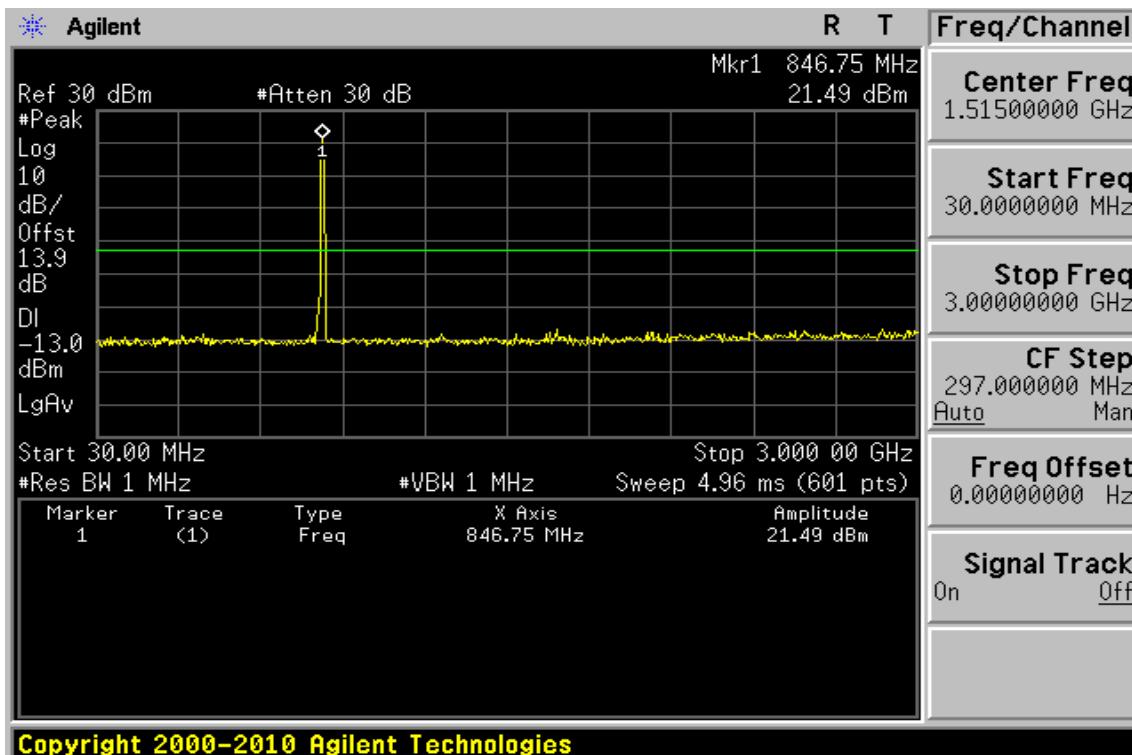
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Figure 9-38: Out of Band emission at antenna terminals – HSDPA V Channel Highest



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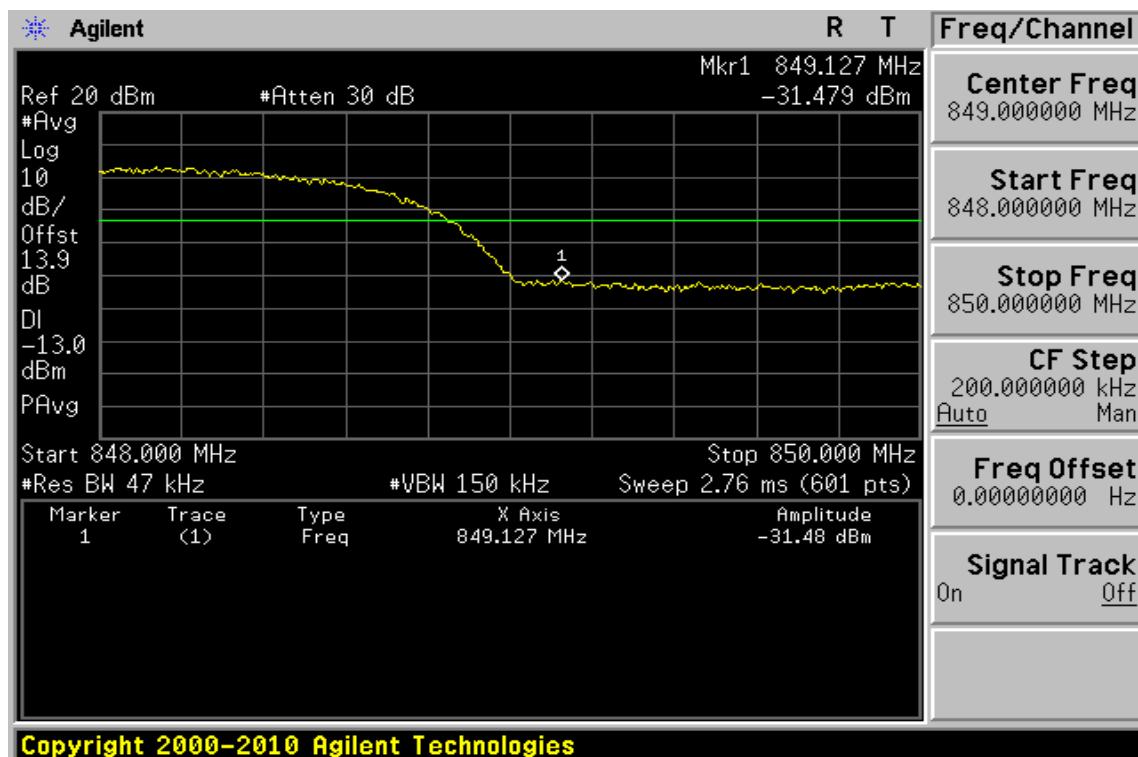
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Figure 9-39: Band edge emission at antenna terminals – HSDPA V Channel Lowest



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



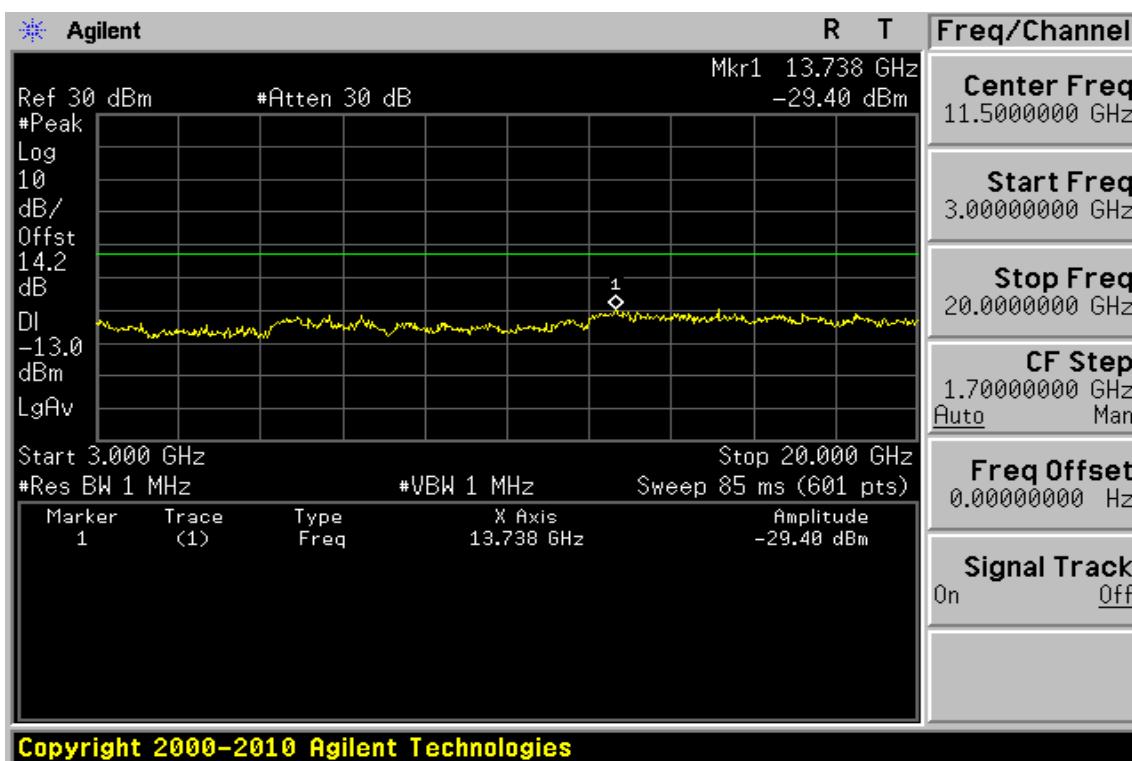
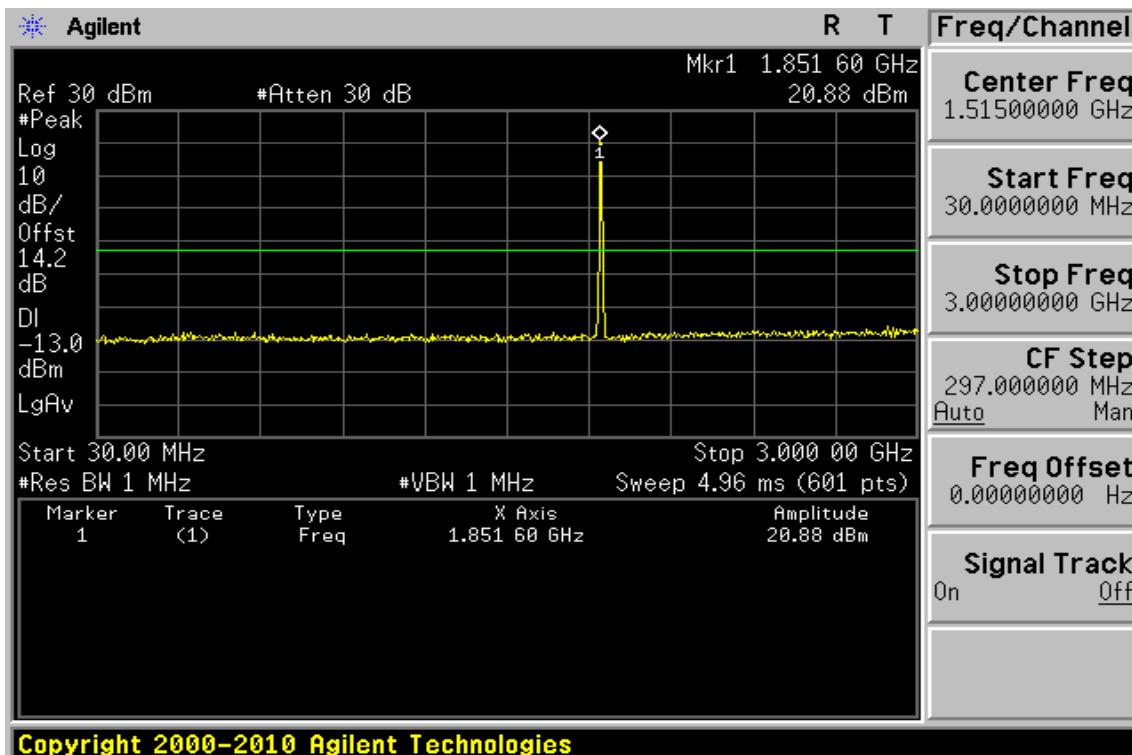
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Figure 9-41: Out of Band emission at antenna terminals – HSUPA II Channel Lowest



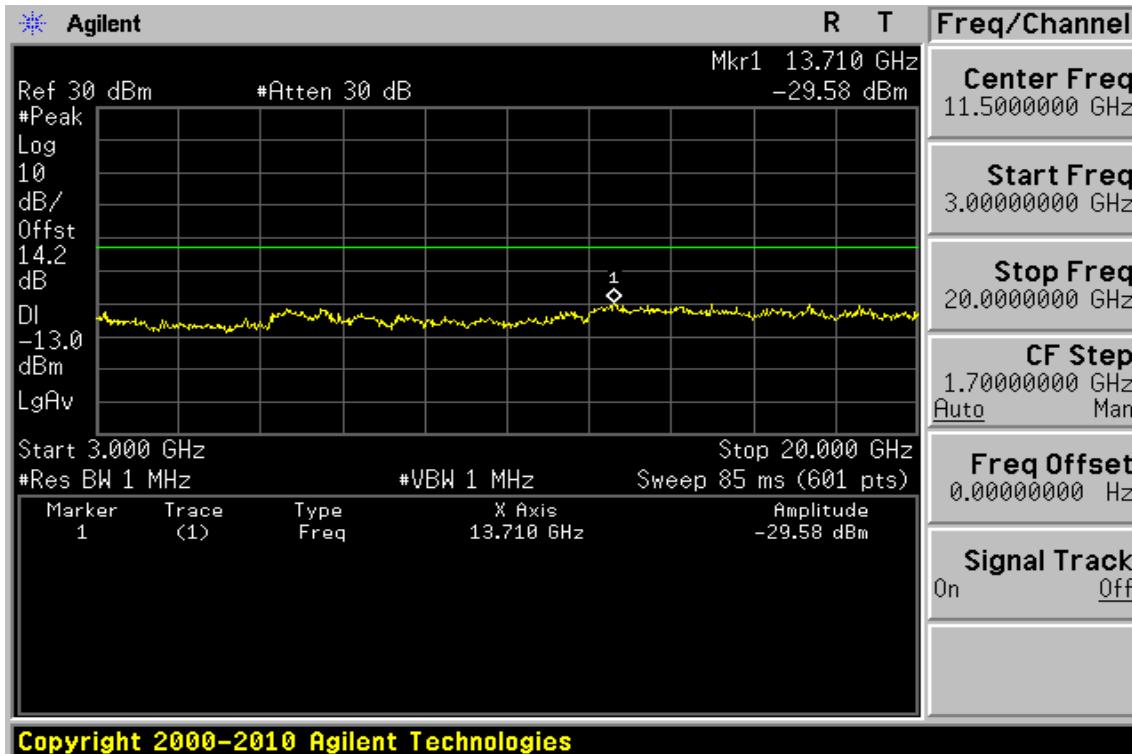
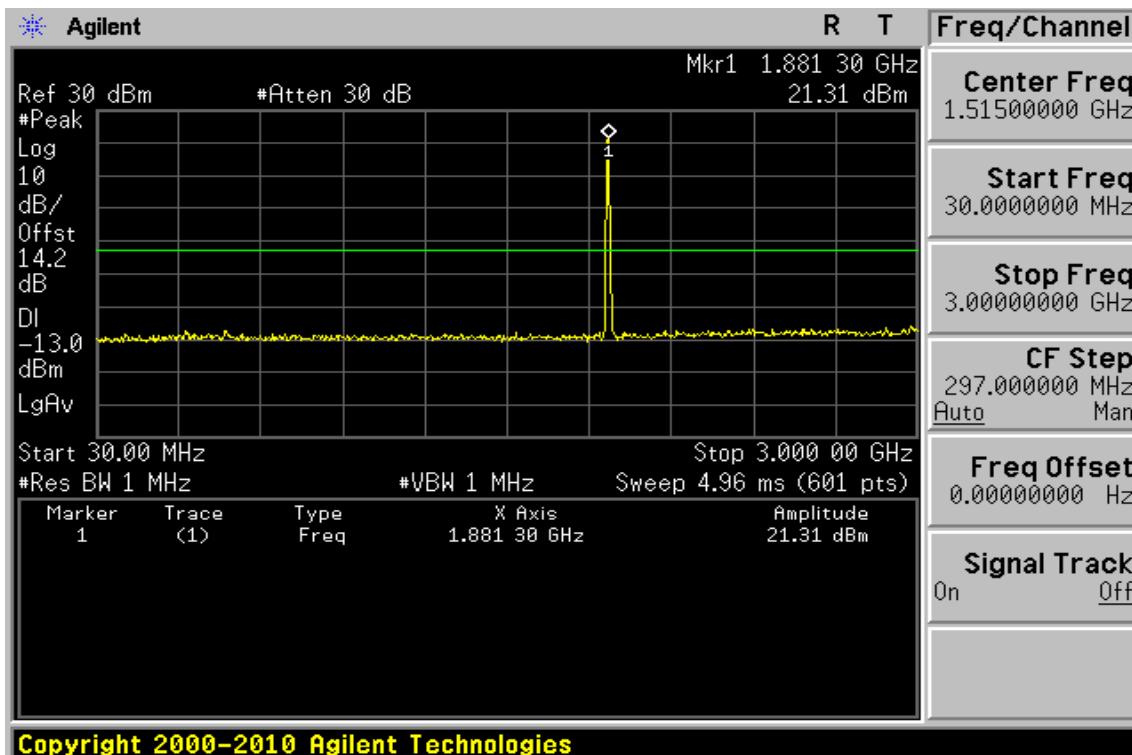
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Figure 9-42: Out of Band emission at antenna terminals – HSUPA II Channel Mid



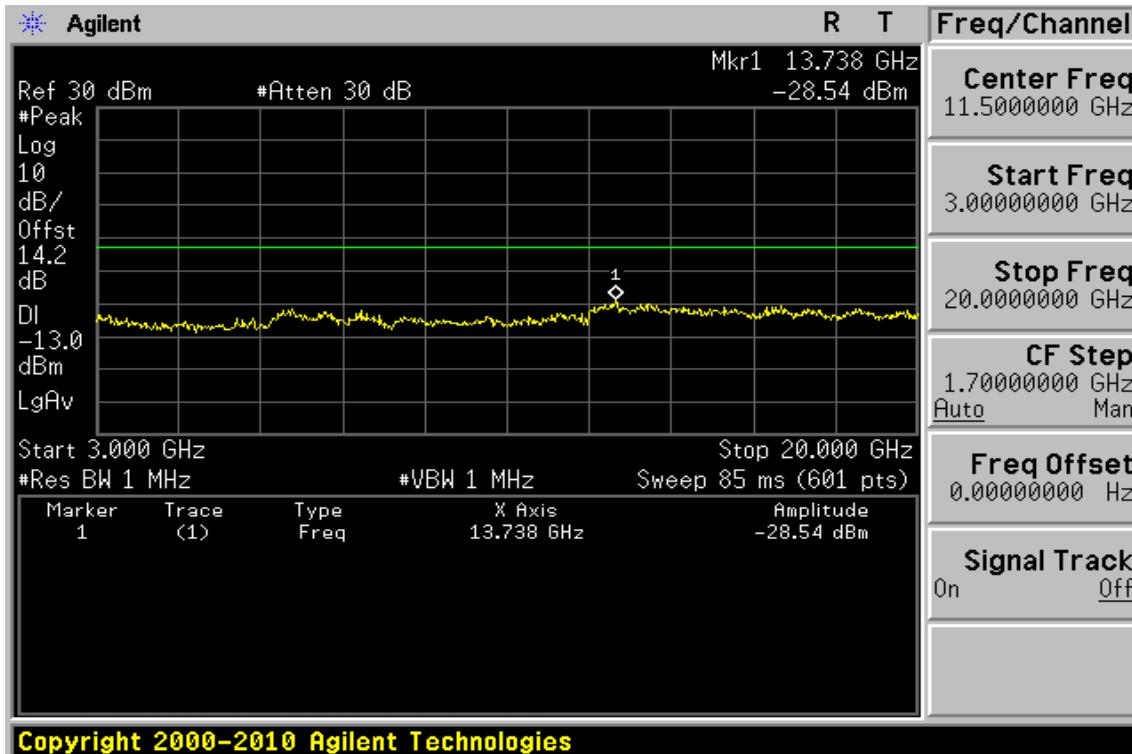
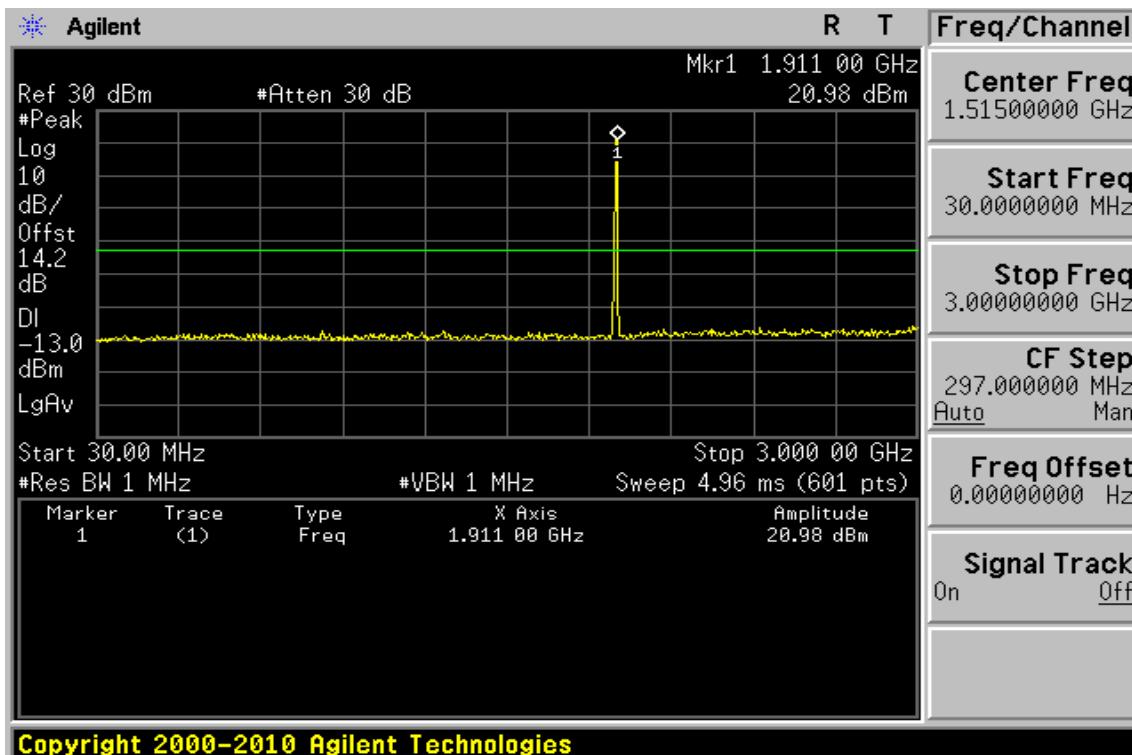
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Figure 9-43: Out of Band emission at antenna terminals – HSUPA II Channel Highest



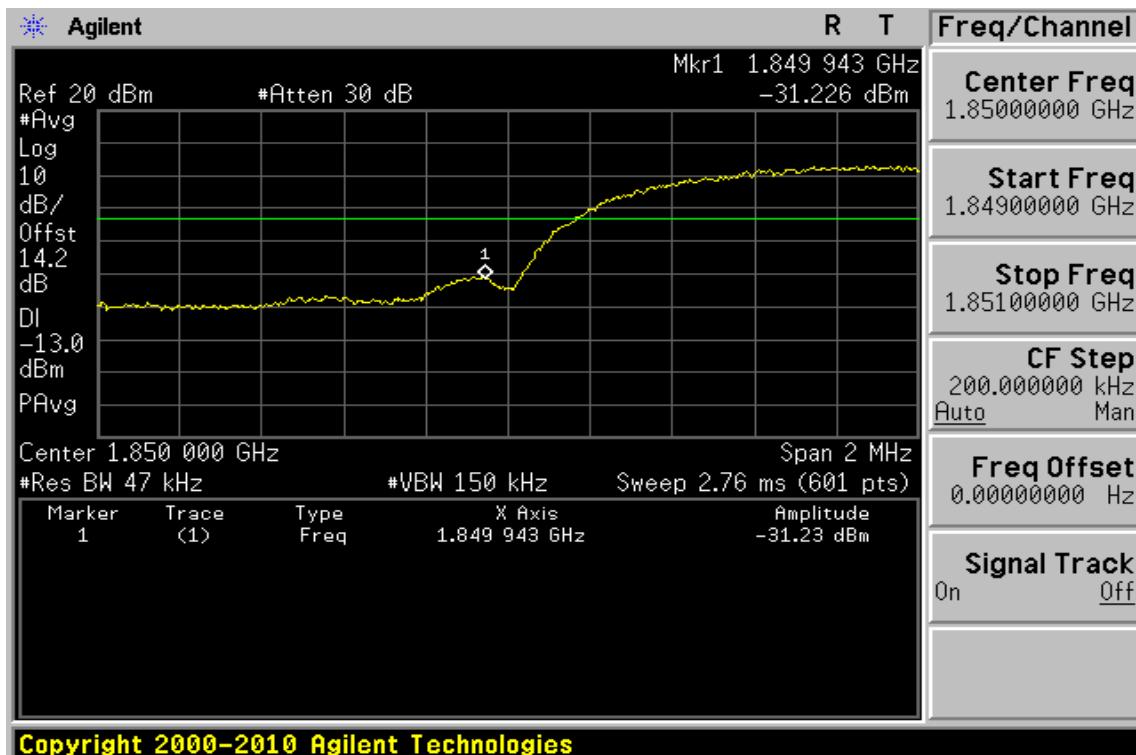
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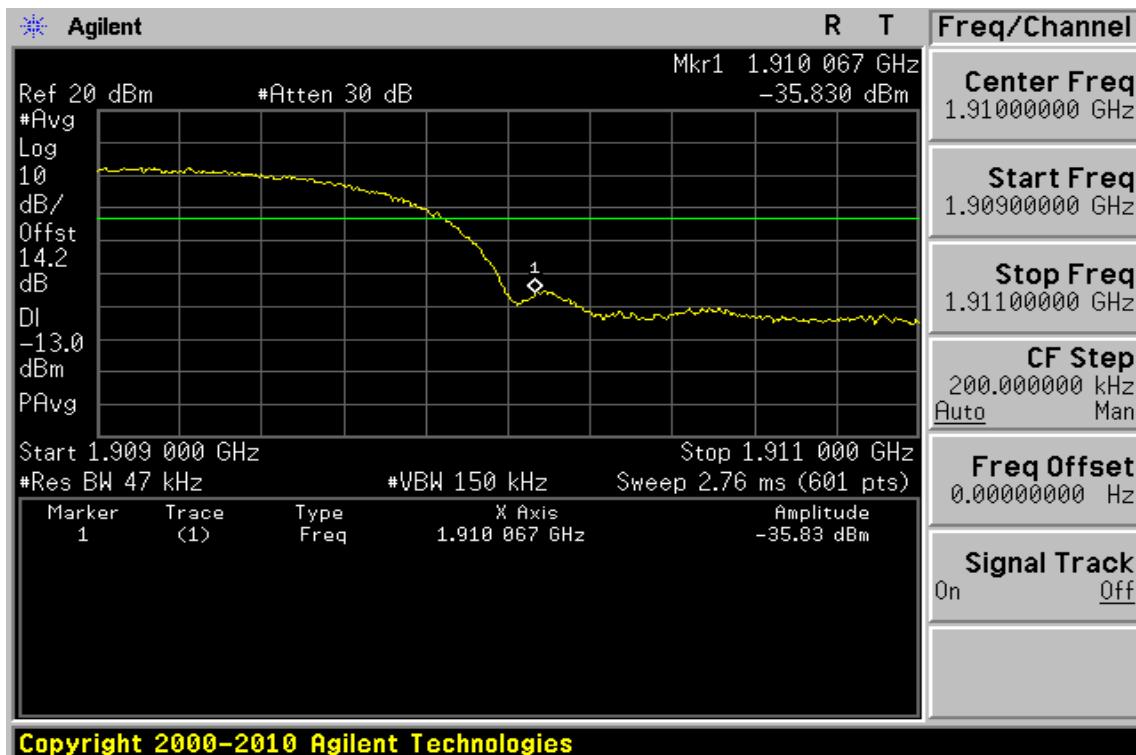
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Figure 9-44: Band edge emission at antenna terminals – HSUPA II Channel Lowest



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



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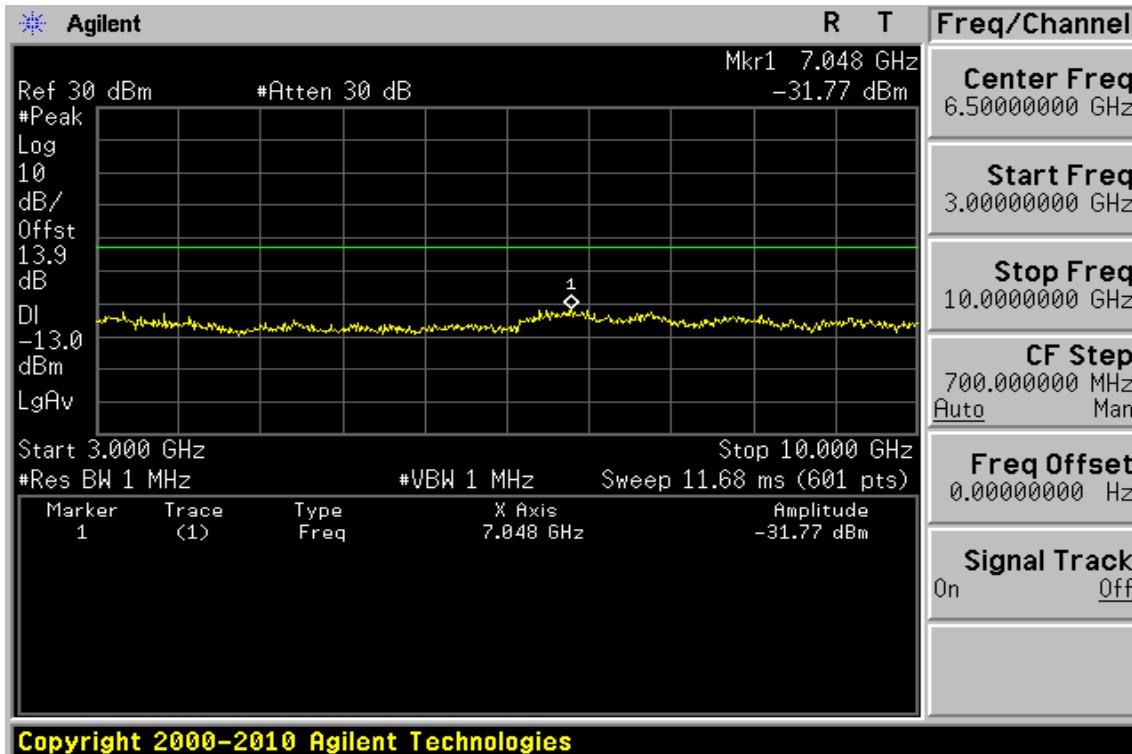
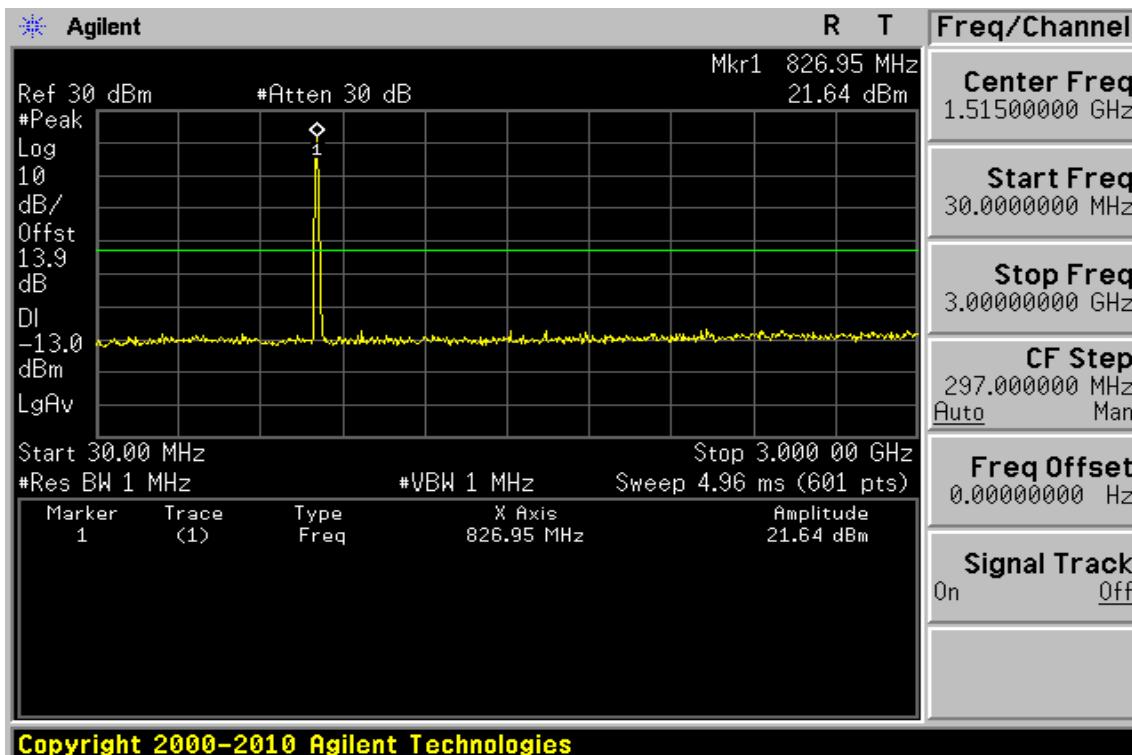
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Figure 9-46: Out of Band emission at antenna terminals – HSUPA V Channel Lowest



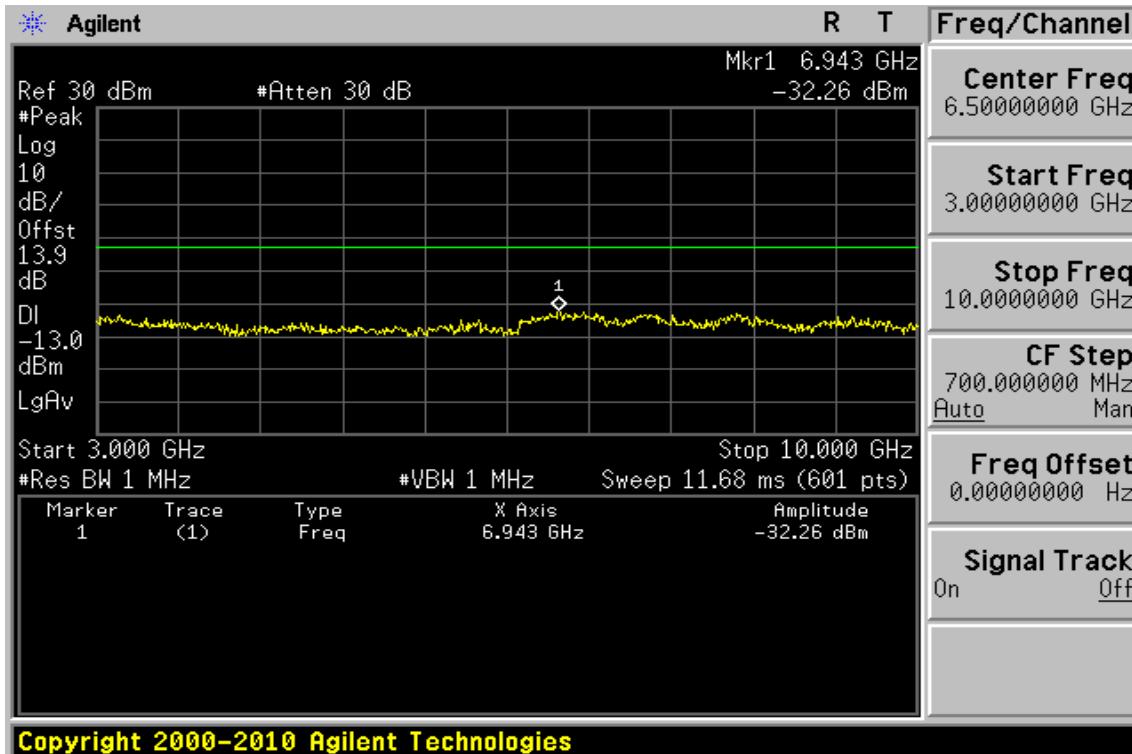
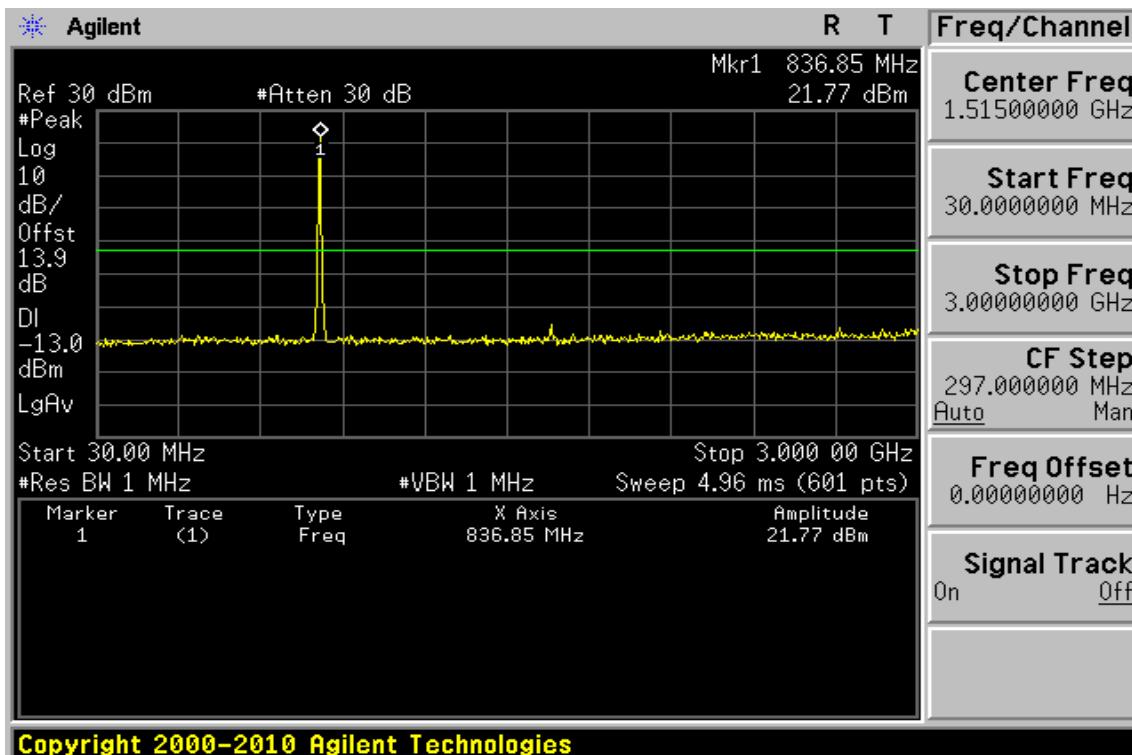
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Figure 9-47: Out of Band emission at antenna terminals – HSUPA V Channel Mid



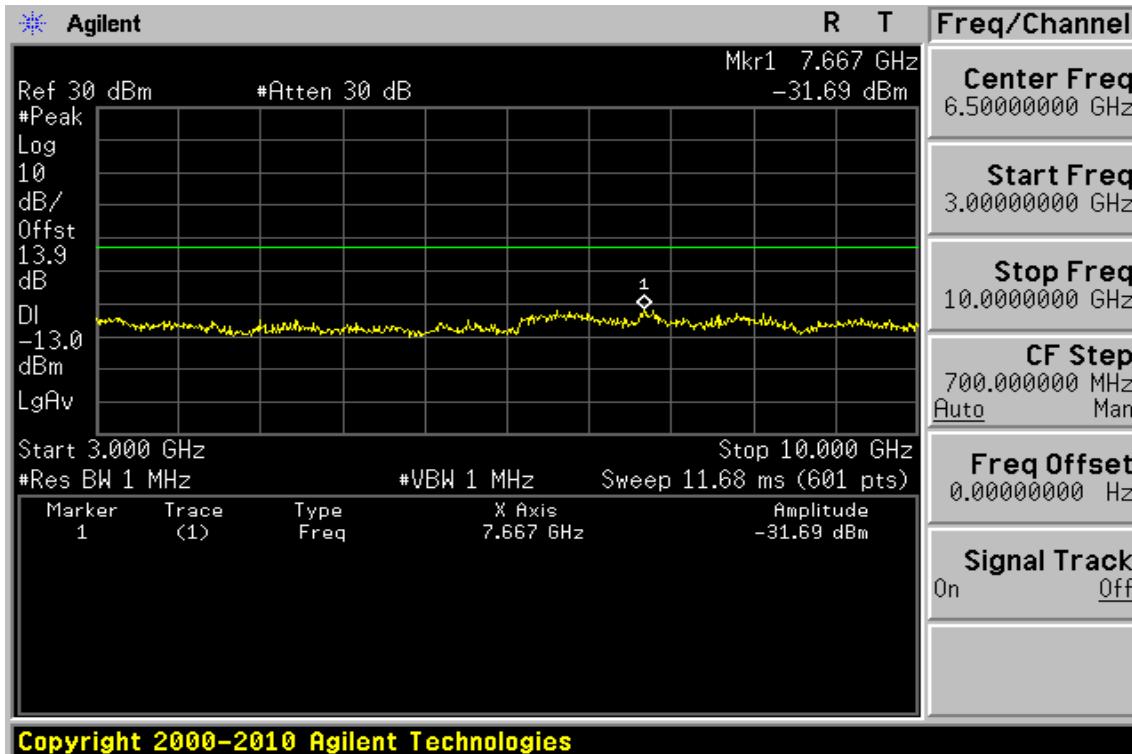
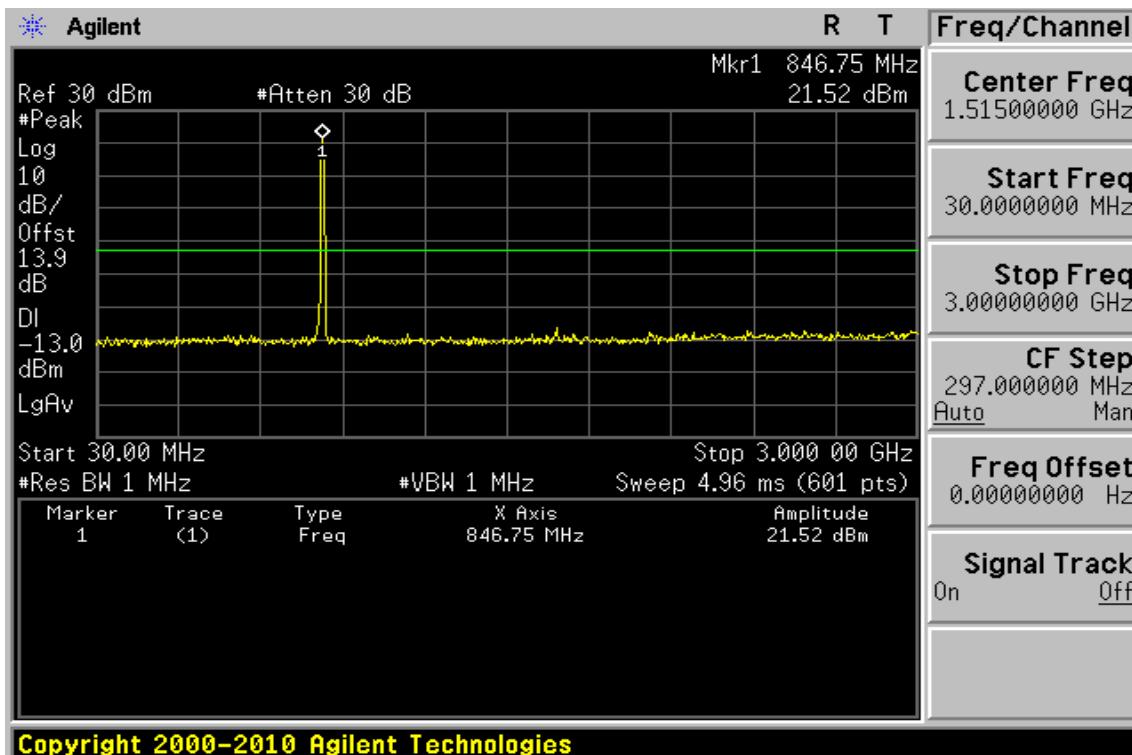
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Figure 9-48: Out of Band emission at antenna terminals – HSUPA V Channel Highest



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

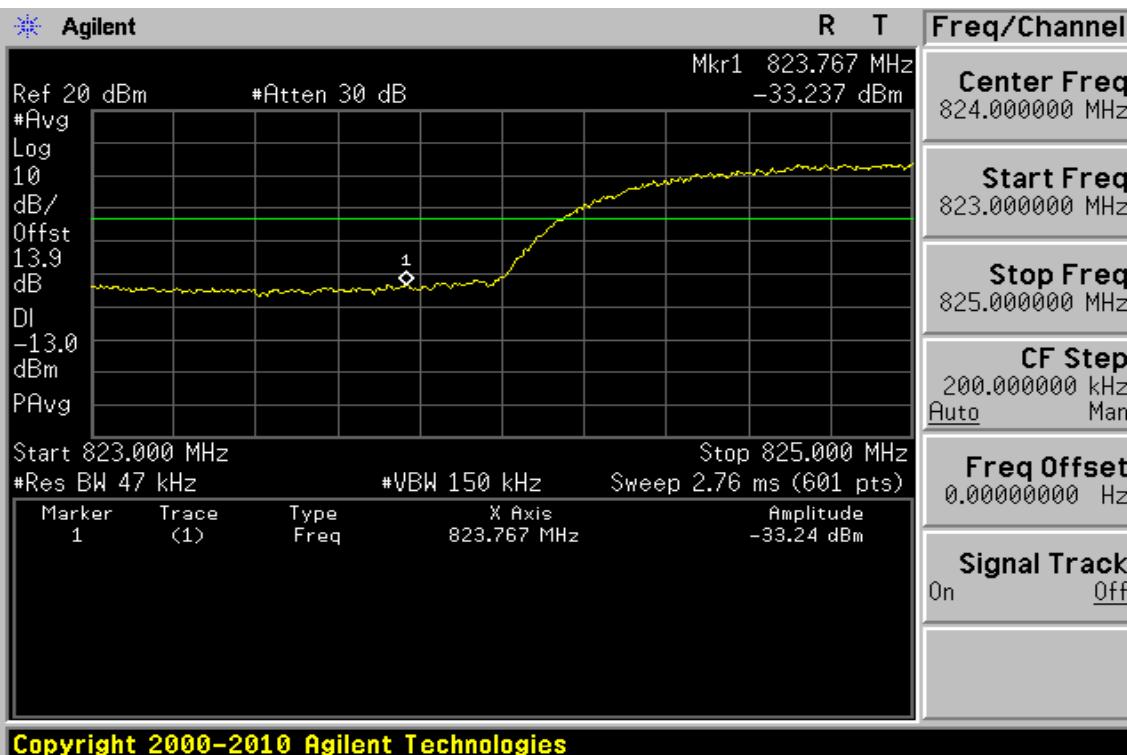
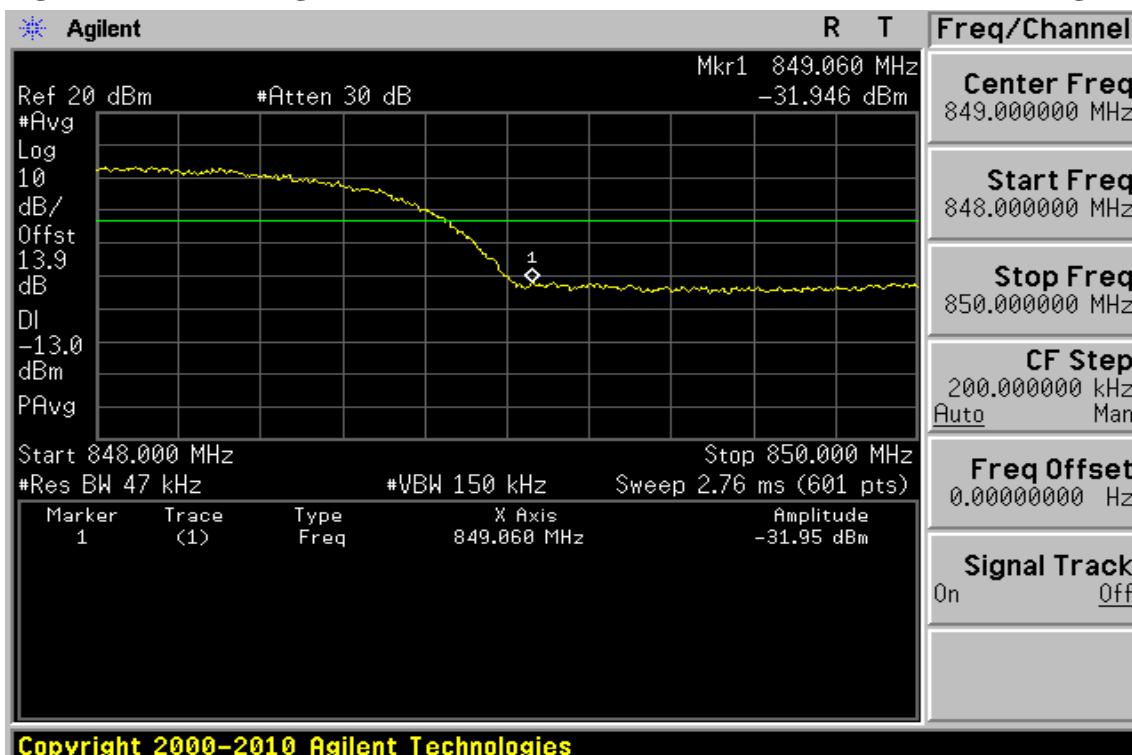


Figure 9-50: Band edge emission at antenna terminals – HSUPA V Channel Highest



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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

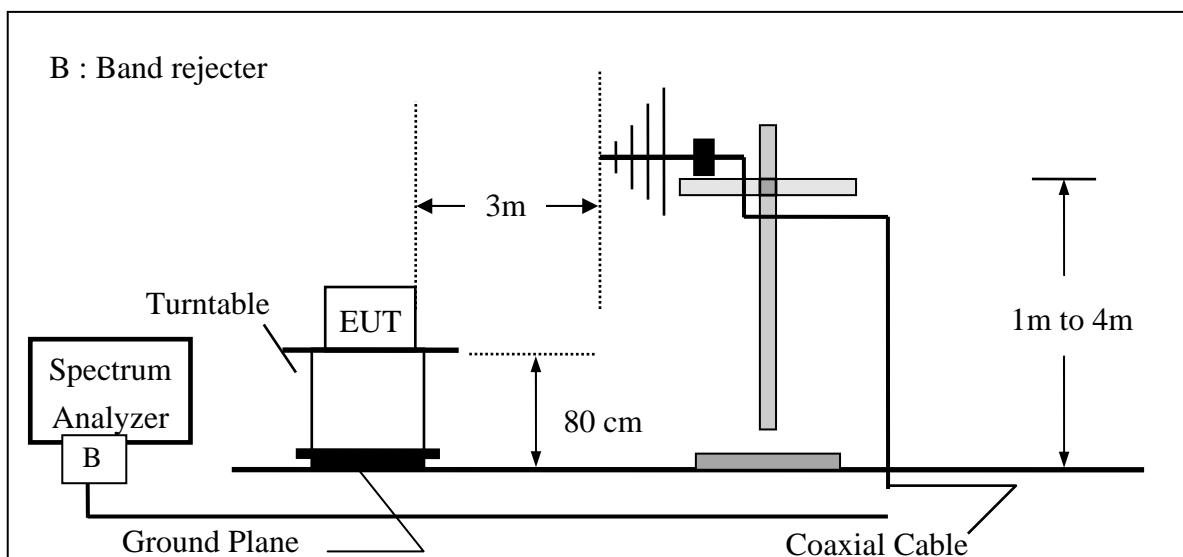
10.1. Standard Applicable:

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).

10.2. EUT Setup (Block Diagram of Configuration):

Radiated Emission Test Set-Up, Frequency Below 1000MHz

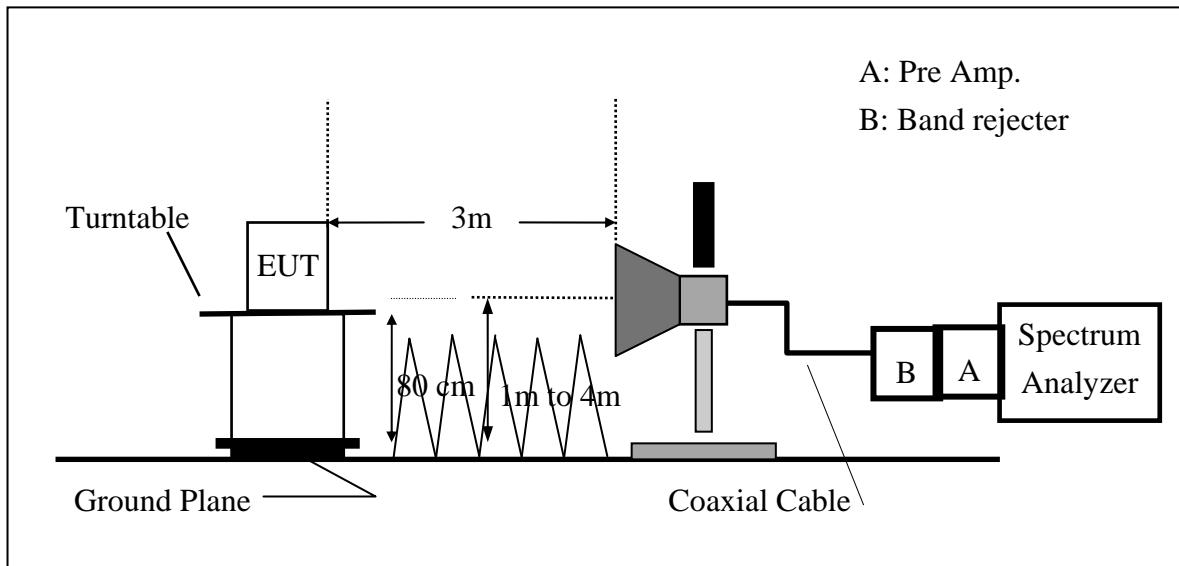


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Radiated Emission Test Set-UP Frequency Over 1 GHz

**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 frequencies (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: GPRS 850 Mode

| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :GPRS 850 | Test Date | :2014-05-08 |
| ARFCN | :CH 128 | Temp./Humi. | :23 deg_C / 65 RH |
| Fundamental Frequency | :824.2 MHz | Engineer | :Curry |
| Operation Mode | :TX LOW | | |
| EUT Pol. | :H Plam | Measurement Antenna Pol. | :VERTICAL |

| Freq. MHz | Note F/H/E/S | ERP dBm | SG | Antenna | Cable | Limit | Margin |
|--------------|-----------------|------------|---------------------|-------------|------------|--------|--------|
| | | | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 38.73 | S | -51.97 | -36.73 | -14.44 | -0.80 | -13.00 | -38.97 |
| 254.07 | S | -69.93 | -71.71 | 3.50 | -1.72 | -13.00 | -56.93 |
| 338.46 | S | -66.85 | -68.94 | 4.04 | -1.95 | -13.00 | -53.85 |
| 465.53 | S | -69.34 | -70.69 | 3.61 | -2.26 | -13.00 | -56.34 |
| 693.48 | S | -66.19 | -67.34 | 3.89 | -2.73 | -13.00 | -53.19 |
| 773.99 | S | -63.34 | -64.25 | 3.81 | -2.90 | -13.00 | -50.34 |
| 1648.40 | H | -29.02 | -28.15 | 3.54 | -4.42 | -13.00 | -16.02 |
| 2472.60 | H | -37.79 | -35.99 | 3.65 | -5.45 | -13.00 | -24.79 |
| 3296.80 | H | -42.32 | -41.41 | 5.51 | -6.42 | -13.00 | -29.32 |
| 4121.00 | H | -52.61 | -52.55 | 7.10 | -7.16 | -13.00 | -39.61 |
| 4945.20 | H | --- | | | | | |
| 5769.40 | H | -46.34 | -45.97 | 8.20 | -8.57 | -13.00 | -33.34 |
| 6593.60 | H | -39.65 | -39.30 | 8.81 | -9.16 | -13.00 | -26.65 |
| 7417.80 | H | -47.58 | -47.67 | 9.89 | -9.80 | -13.00 | -34.58 |
| 8242.00 | H | -46.26 | -46.54 | 10.60 | -10.32 | -13.00 | -33.26 |

$$\text{ERP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :GPRS 850 | Test Date | :2014-05-08 |
| ARFCN | :CH 128 | Temp./Humi. | :23 deg_C / 65 RH |
| Fundamental Frequency | :824.2 MHz | Engineer | :Curry |
| Operation Mode | :TX LOW | | |
| EUT Pol. | :H Plam | Measurement Antenna Pol. | :HORIZONTAL |

| Freq. MHz | Note F/H/E/S | ERP dBm | SG | Antenna | Cable | Limit | Margin |
|--------------|-----------------|------------|---------------------|-------------|------------|--------|--------|
| | | | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 40.67 | S | -66.47 | -51.49 | -14.16 | -0.81 | -13.00 | -53.47 |
| 280.26 | S | -68.33 | -69.84 | 3.32 | -1.81 | -13.00 | -55.33 |
| 290.93 | S | -67.32 | -68.93 | 3.45 | -1.84 | -13.00 | -54.32 |
| 523.73 | S | -70.70 | -72.11 | 3.82 | -2.42 | -13.00 | -57.70 |
| 699.30 | S | -65.21 | -66.35 | 3.88 | -2.74 | -13.00 | -52.21 |
| 773.99 | S | -62.17 | -63.08 | 3.81 | -2.90 | -13.00 | -49.17 |
| 1648.40 | H | -34.17 | -33.30 | 3.54 | -4.42 | -13.00 | -21.17 |
| 2472.60 | H | -40.09 | -38.29 | 3.65 | -5.45 | -13.00 | -27.09 |
| 3296.80 | H | -44.69 | -43.79 | 5.51 | -6.42 | -13.00 | -31.69 |
| 4121.00 | H | -48.88 | -48.81 | 7.10 | -7.16 | -13.00 | -35.88 |
| 4945.20 | H | --- | | | | | |
| 5769.40 | H | -44.32 | -43.95 | 8.20 | -8.57 | -13.00 | -31.32 |
| 6593.60 | H | -35.95 | -35.60 | 8.81 | -9.16 | -13.00 | -22.95 |
| 7417.80 | H | -43.29 | -43.38 | 9.89 | -9.80 | -13.00 | -30.29 |
| 8242.00 | H | -44.47 | -44.75 | 10.60 | -10.32 | -13.00 | -31.47 |

$$\text{ERP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :GPRS 850 | Test Date | :2014-05-08 |
| ARFCN | :CH 190 | Temp./Humi. | :23 deg_C / 65 RH |
| Fundamental Frequency | :836.6 MHz | Engineer | :Curry |
| Operation Mode | :TX MID | | |
| EUT Pol. | :H Plam | Measurement Antenna Pol. | :VERTICAL |

| Freq. MHz | Note F/H/E/S | ERP dBm | SG | Antenna | Cable | Limit | Margin |
|--------------|-----------------|------------|---------------------|-------------|------------|--------|--------|
| | | | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 43.58 | S | -45.70 | -31.14 | -13.68 | -0.88 | -13.00 | -32.70 |
| 248.25 | S | -67.55 | -69.28 | 3.43 | -1.70 | -13.00 | -54.55 |
| 424.79 | S | -68.28 | -69.81 | 3.68 | -2.15 | -13.00 | -55.28 |
| 468.44 | S | -70.14 | -71.50 | 3.62 | -2.27 | -13.00 | -57.14 |
| 688.63 | S | -65.96 | -67.12 | 3.89 | -2.73 | -13.00 | -52.96 |
| 942.77 | S | -60.53 | -60.84 | 3.63 | -3.33 | -13.00 | -47.53 |
| 1673.20 | H | -31.39 | -30.40 | 3.46 | -4.45 | -13.00 | -18.39 |
| 2509.80 | H | -41.05 | -39.27 | 3.72 | -5.50 | -13.00 | -28.05 |
| 3346.40 | H | -43.21 | -42.41 | 5.67 | -6.47 | -13.00 | -30.21 |
| 4183.00 | H | -52.70 | -52.58 | 7.10 | -7.22 | -13.00 | -39.70 |
| 5019.60 | H | | | | | | |
| 5856.20 | H | -46.60 | -46.16 | 8.20 | -8.64 | -13.00 | -33.60 |
| 6692.80 | H | -43.12 | -42.82 | 8.94 | -9.24 | -13.00 | -30.12 |
| 7529.40 | H | -45.06 | -45.20 | 10.02 | -9.87 | -13.00 | -32.06 |
| 8366.00 | H | -51.68 | -51.97 | 10.70 | -10.40 | -13.00 | -38.68 |

$$\text{ERP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

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

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Operation Band :GPRS 850
 ARFCN :CH 190
 Fundamental Frequency :836.6 MHz
 Operation Mode :TX MID
 EUT Pol. :H Plam

Test Date :2014-05-08
 Temp./Humi. :23 deg_C / 65 RH
 Engineer :Curry

Measurement Antenna Pol. :HORIZONTAL

| Freq. MHz | Note F/H/E/S | ERP dBm | SG | Antenna | Cable | Limit | Margin |
|--------------|-----------------|------------|---------------------|-------------|------------|--------|--------|
| | | | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 44.55 | S | -45.79 | -31.37 | -13.53 | -0.90 | -13.00 | -32.79 |
| 236.61 | S | -66.97 | -68.70 | 3.39 | -1.66 | -13.00 | -53.97 |
| 293.84 | S | -66.73 | -68.38 | 3.50 | -1.85 | -13.00 | -53.73 |
| 468.44 | S | -70.30 | -71.66 | 3.62 | -2.27 | -13.00 | -57.30 |
| 698.33 | S | -66.73 | -67.87 | 3.88 | -2.74 | -13.00 | -53.73 |
| 953.44 | S | -60.17 | -60.23 | 3.40 | -3.34 | -13.00 | -47.17 |
| 1673.20 | H | -35.50 | -34.51 | 3.46 | -4.45 | -13.00 | -22.50 |
| 2509.80 | H | -41.28 | -39.51 | 3.72 | -5.50 | -13.00 | -28.28 |
| 3346.40 | H | -47.60 | -46.80 | 5.67 | -6.47 | -13.00 | -34.60 |
| 4183.00 | H | -48.92 | -48.80 | 7.10 | -7.22 | -13.00 | -35.92 |
| 5019.60 | H | | | | | | |
| 5856.20 | H | -43.39 | -42.95 | 8.20 | -8.64 | -13.00 | -30.39 |
| 6692.80 | H | -39.62 | -39.32 | 8.93 | -9.24 | -13.00 | -26.62 |
| 7529.40 | H | -39.07 | -39.22 | 10.03 | -9.88 | -13.00 | -26.07 |
| 8366.00 | H | -48.92 | -49.21 | 10.69 | -10.40 | -13.00 | -35.92 |

$$\text{ERP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

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

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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :GPRS 850 | Test Date | :2014-05-08 |
| ARFCN | :CH 251 | Temp./Humi. | :23 deg_C / 65 RH |
| Fundamental Frequency | :848.8 MHz | Engineer | :Curry |
| Operation Mode | :TX HIGH | | |
| EUT Pol. | :H Plam | Measurement Antenna Pol. | :VERTICAL |

| Freq. MHz | Note F/H/E/S | ERP dBm | SG | Antenna | Cable | Limit | Margin |
|--------------|-----------------|------------|---------------------|-------------|------------|--------|--------|
| | | | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 44.55 | S | -46.87 | -32.44 | -13.53 | -0.90 | -13.00 | -33.87 |
| 236.61 | S | -67.01 | -68.74 | 3.39 | -1.66 | -13.00 | -54.01 |
| 291.90 | S | -67.09 | -68.72 | 3.47 | -1.85 | -13.00 | -54.09 |
| 528.58 | S | -70.20 | -71.60 | 3.84 | -2.43 | -13.00 | -57.20 |
| 694.45 | S | -66.78 | -67.94 | 3.89 | -2.73 | -13.00 | -53.78 |
| 942.77 | S | -59.79 | -60.09 | 3.63 | -3.33 | -13.00 | -46.79 |
| 1697.60 | H | -33.38 | -32.28 | 3.39 | -4.49 | -13.00 | -20.38 |
| 2546.40 | H | -40.21 | -38.46 | 3.79 | -5.54 | -13.00 | -27.21 |
| 3395.20 | H | -44.12 | -43.40 | 5.80 | -6.52 | -13.00 | -31.12 |
| 4244.00 | H | -55.10 | -54.94 | 7.10 | -7.27 | -13.00 | -42.10 |
| 5092.80 | H | | | | | | |
| 5941.60 | H | -50.81 | -50.31 | 8.20 | -8.71 | -13.00 | -37.81 |
| 6790.40 | H | -42.25 | -41.99 | 9.05 | -9.31 | -13.00 | -29.25 |
| 7639.20 | H | -43.08 | -43.25 | 10.12 | -9.94 | -13.00 | -30.08 |
| 8488.00 | H | -51.71 | -52.02 | 10.79 | -10.48 | -13.00 | -38.71 |

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

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

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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :GPRS 850 | Test Date | :2014-05-08 |
| ARFCN | :CH 251 | Temp./Humi. | :23 deg_C / 65 RH |
| Fundamental Frequency | :848.8 MHz | Engineer | :Curry |
| Operation Mode | :TX HIGH | | |
| EUT Pol. | :H Plam | Measurement Antenna Pol. | :HORIZONTAL |

| Freq. MHz | Note F/H/E/S | ERP dBm | SG | Antenna | Cable | Limit | Margin |
|--------------|-----------------|------------|---------------------|-------------|------------|--------|--------|
| | | | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 44.55 | S | -46.75 | -32.32 | -13.53 | -0.90 | -13.00 | -33.75 |
| 248.25 | S | -67.29 | -69.02 | 3.43 | -1.70 | -13.00 | -54.29 |
| 294.81 | S | -67.37 | -69.04 | 3.52 | -1.85 | -13.00 | -54.37 |
| 468.44 | S | -70.48 | -71.84 | 3.62 | -2.27 | -13.00 | -57.48 |
| 700.27 | S | -66.26 | -67.40 | 3.88 | -2.74 | -13.00 | -53.26 |
| 942.77 | S | -58.80 | -59.11 | 3.63 | -3.33 | -13.00 | -45.80 |
| 1697.60 | H | -37.69 | -36.59 | 3.39 | -4.49 | -13.00 | -24.69 |
| 2546.40 | H | -39.48 | -37.73 | 3.79 | -5.54 | -13.00 | -26.48 |
| 3395.20 | H | -51.84 | -51.13 | 5.80 | -6.52 | -13.00 | -38.84 |
| 4244.00 | H | -49.04 | -48.87 | 7.10 | -7.27 | -13.00 | -36.04 |
| 5092.80 | H | | | | | | |
| 5941.60 | H | -43.61 | -43.10 | 8.20 | -8.71 | -13.00 | -30.61 |
| 6790.40 | H | -41.76 | -41.50 | 9.05 | -9.31 | -13.00 | -28.76 |
| 7639.20 | H | -36.64 | -36.81 | 10.12 | -9.94 | -13.00 | -23.64 |
| 8488.00 | H | -47.03 | -47.33 | 10.79 | -10.48 | -13.00 | -34.03 |

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: GPRS 1900 Mode

| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :GPRS 1900 | Test Date | :2014-05-08 |
| ARFCN | :CH 512 | Temp./Humi. | :23 deg_C / 65 RH |
| Fundamental Frequency | :1850.2 MHz | Engineer | :Curry |
| Operation Mode | :TX LOW | | |
| EUT Pol. | :E2 Plam | Measurement Antenna Pol. | :VERTICAL |

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG | Antenna | Cable | Limit | Margin |
|--------------|-----------------|-------------|---------------------|-------------|------------|--------|--------|
| | | | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 39.70 | S | -50.20 | -37.23 | -12.17 | -0.80 | -13.00 | -37.20 |
| 271.53 | S | -64.89 | -68.65 | 5.55 | -1.78 | -13.00 | -51.89 |
| 293.84 | S | -67.01 | -70.81 | 5.65 | -1.85 | -13.00 | -54.01 |
| 519.85 | S | -69.42 | -72.97 | 5.96 | -2.41 | -13.00 | -56.42 |
| 689.60 | S | -64.38 | -67.69 | 6.04 | -2.73 | -13.00 | -51.38 |
| 957.32 | S | -62.94 | -64.88 | 5.29 | -3.35 | -13.00 | -49.94 |
| 3700.40 | H | -46.15 | -47.97 | 8.62 | -6.80 | -13.00 | -33.15 |
| 5550.60 | H | -35.95 | -37.85 | 10.30 | -8.40 | -13.00 | -22.95 |
| 7400.80 | H | -29.07 | -31.25 | 11.96 | -9.78 | -13.00 | -16.07 |
| 9251.00 | H | --- | | | | | |
| 11101.20 | H | --- | | | | | |
| 12951.40 | H | --- | | | | | |
| 14801.60 | H | --- | | | | | |
| 16651.80 | H | --- | | | | | |
| 18502.00 | H | --- | | | | | |

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :GPRS 1900 | Test Date | :2014-05-08 |
| ARFCN | :CH 512 | Temp./Humi. | :23 deg_C / 65 RH |
| Fundamental Frequency | :1850.2 MHz | Engineer | :Curry |
| Operation Mode | :TX LOW | | |
| EUT Pol. | :E2 Plam | Measurement Antenna Pol. | :HORIZONTAL |

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG | Antenna | Cable | Limit | Margin |
|--------------|-----------------|-------------|---------------------|-------------|------------|--------|--------|
| | | | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 81.41 | S | -63.82 | -61.65 | -1.13 | -1.03 | -13.00 | -50.82 |
| 279.29 | S | -61.80 | -65.47 | 5.48 | -1.81 | -13.00 | -48.80 |
| 295.78 | S | -60.65 | -64.48 | 5.69 | -1.86 | -13.00 | -47.65 |
| 462.62 | S | -67.74 | -71.24 | 5.75 | -2.25 | -13.00 | -54.74 |
| 685.72 | S | -63.87 | -67.20 | 6.05 | -2.72 | -13.00 | -50.87 |
| 772.05 | S | -62.16 | -65.22 | 5.95 | -2.89 | -13.00 | -49.16 |
| 3700.40 | H | -55.18 | -56.99 | 8.62 | -6.80 | -13.00 | -42.18 |
| 5550.60 | H | -44.91 | -46.81 | 10.30 | -8.40 | -13.00 | -31.91 |
| 7400.80 | H | -34.53 | -36.71 | 11.96 | -9.78 | -13.00 | -21.53 |
| 9251.00 | H | --- | | | | | |
| 11101.20 | H | --- | | | | | |
| 12951.40 | H | --- | | | | | |
| 14801.60 | H | --- | | | | | |
| 16651.80 | H | --- | | | | | |
| 18502.00 | H | --- | | | | | |

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

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

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Operation Band :GPRS 1900 Test Date :2014-05-08
 ARFCN :CH 661 Temp./Humi. :23 deg_C / 65 RH
 Fundamental Frequency :1880.0 MHz Engineer :Curry
 Operation Mode :TX MID
 EUT Pol. :E2 Plam Measurement Antenna Pol. :VERTICAL

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG | | Antenna Gain dBi | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|-------------|---------------------|---------------------------|------------------------|---------------------|--------------|--------------|
| | | | Output Level dBm | SG Output Level dBm | | | | |
| 39.70 | S | -50.28 | -37.31 | -12.17 | -0.80 | -13.00 | -37.28 | |
| 280.26 | S | -64.87 | -68.53 | 5.47 | -1.81 | -13.00 | -51.87 | |
| 291.90 | S | -67.80 | -71.57 | 5.62 | -1.85 | -13.00 | -54.80 | |
| 536.34 | S | -69.01 | -72.56 | 6.01 | -2.45 | -13.00 | -56.01 | |
| 696.39 | S | -63.90 | -67.20 | 6.03 | -2.74 | -13.00 | -50.90 | |
| 941.80 | S | -62.64 | -65.10 | 5.78 | -3.32 | -13.00 | -49.64 | |
| 3760.00 | H | -46.82 | -48.70 | 8.74 | -6.85 | -13.00 | -33.82 | |
| 5640.00 | H | -34.69 | -36.52 | 10.30 | -8.47 | -13.00 | -21.69 | |
| 7520.00 | H | -28.31 | -30.56 | 12.12 | -9.87 | -13.00 | -15.31 | |
| 9400.00 | H | --- | | | | | | |
| 11280.00 | H | --- | | | | | | |
| 13160.00 | H | --- | | | | | | |
| 15040.00 | H | --- | | | | | | |
| 16920.00 | H | --- | | | | | | |
| 18800.00 | H | --- | | | | | | |

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

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

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| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :GPRS 1900 | Test Date | :2014-05-08 |
| ARFCN | :CH 661 | Temp./Humi. | :23 deg_C / 65 RH |
| Fundamental Frequency | :1880.0 MHz | Engineer | :Curry |
| Operation Mode | :TX MID | | |
| EUT Pol. | :E2 Plam | Measurement Antenna Pol. | :HORIZONTAL |

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG | Antenna | Cable | Limit | Margin |
|--------------|-----------------|-------------|---------------------|-------------|------------|--------|--------|
| | | | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 81.41 | S | -63.73 | -61.57 | -1.13 | -1.03 | -13.00 | -50.73 |
| 279.29 | S | -62.59 | -66.26 | 5.48 | -1.81 | -13.00 | -49.59 |
| 298.69 | S | -60.94 | -64.82 | 5.75 | -1.87 | -13.00 | -47.94 |
| 473.29 | S | -67.61 | -71.12 | 5.80 | -2.28 | -13.00 | -54.61 |
| 698.33 | S | -64.21 | -67.51 | 6.03 | -2.74 | -13.00 | -51.21 |
| 783.69 | S | -63.13 | -66.22 | 6.01 | -2.92 | -13.00 | -50.13 |
| 3760.00 | H | -53.93 | -55.82 | 8.74 | -6.85 | -13.00 | -40.93 |
| 5640.00 | H | -44.17 | -46.00 | 10.30 | -8.47 | -13.00 | -31.17 |
| 7520.00 | H | -34.84 | -37.08 | 12.12 | -9.87 | -13.00 | -21.84 |
| 9400.00 | H | --- | | | | | |
| 11280.00 | H | --- | | | | | |
| 13160.00 | H | --- | | | | | |
| 15040.00 | H | --- | | | | | |
| 16920.00 | H | --- | | | | | |
| 18800.00 | H | --- | | | | | |

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

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

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| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :GPRS 1900 | Test Date | :2014-05-08 |
| ARFCN | :CH 810 | Temp./Humi. | :23 deg_C / 65 RH |
| Fundamental Frequency | :1909.8 MHz | Engineer | :Curry |
| Operation Mode | :TX HIGH | | |
| EUT Pol. | :E2 Plam | Measurement Antenna Pol. | :VERTICAL |

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG | Antenna | Cable | Limit | Margin |
|--------------|-----------------|-------------|---------------------|-------------|------------|--------|--------|
| | | | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 39.70 | S | -49.97 | -37.00 | -12.17 | -0.80 | -13.00 | -36.97 |
| 245.34 | S | -63.85 | -67.72 | 5.56 | -1.69 | -13.00 | -50.85 |
| 291.90 | S | -67.33 | -71.10 | 5.62 | -1.85 | -13.00 | -54.33 |
| 504.33 | S | -69.40 | -72.96 | 5.92 | -2.36 | -13.00 | -56.40 |
| 685.72 | S | -64.56 | -67.88 | 6.05 | -2.72 | -13.00 | -51.56 |
| 949.56 | S | -63.25 | -65.69 | 5.78 | -3.34 | -13.00 | -50.25 |
| 3819.60 | H | -45.48 | -47.44 | 8.86 | -6.90 | -13.00 | -32.48 |
| 5729.40 | H | -34.31 | -36.07 | 10.30 | -8.54 | -13.00 | -21.31 |
| 7639.20 | H | -31.54 | -33.81 | 12.21 | -9.94 | -13.00 | -18.54 |
| 9549.00 | H | --- | | | | | |
| 11458.80 | H | --- | | | | | |
| 13368.60 | H | --- | | | | | |
| 15278.40 | H | --- | | | | | |
| 17188.20 | H | --- | | | | | |
| 19098.00 | H | --- | | | | | |

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

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

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| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :GPRS 1900 | Test Date | :2014-05-08 |
| ARFCN | :CH 810 | Temp./Humi. | :23 deg_C / 65 RH |
| Fundamental Frequency | :1909.8 MHz | Engineer | :Curry |
| Operation Mode | :TX HIGH | | |
| EUT Pol. | :E2 Plam | Measurement Antenna Pol. | :HORIZONTAL |

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG | Antenna | Cable | Limit | Margin |
|--------------|-----------------|-------------|---------------------|-------------|------------|--------|--------|
| | | | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 80.44 | S | -63.10 | -60.63 | -1.46 | -1.01 | -13.00 | -50.10 |
| 280.26 | S | -61.42 | -65.08 | 5.47 | -1.81 | -13.00 | -48.42 |
| 290.93 | S | -60.76 | -64.52 | 5.60 | -1.84 | -13.00 | -47.76 |
| 469.41 | S | -68.42 | -71.92 | 5.78 | -2.27 | -13.00 | -55.42 |
| 692.51 | S | -64.28 | -67.59 | 6.04 | -2.73 | -13.00 | -51.28 |
| 822.49 | S | -62.70 | -65.74 | 6.06 | -3.02 | -13.00 | -49.70 |
| 3819.60 | H | -51.19 | -53.15 | 8.86 | -6.90 | -13.00 | -38.19 |
| 5729.40 | H | -44.40 | -46.16 | 10.30 | -8.54 | -13.00 | -31.40 |
| 7639.20 | H | -35.65 | -37.92 | 12.21 | -9.94 | -13.00 | -22.65 |
| 9549.00 | H | --- | | | | | |
| 11458.80 | H | --- | | | | | |
| 13368.60 | H | --- | | | | | |
| 15278.40 | H | --- | | | | | |
| 17188.20 | H | --- | | | | | |
| 19098.00 | H | --- | | | | | |

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + 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: WCDMA II Mode

| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :WCDMA B2 | Test Date | :2014-05-08 |
| ARFCN | :CH 9262 | Temp./Humi. | :23 deg_C / 65 RH |
| Fundamental Frequency | :1852.4 MHz | Engineer | :Curry |
| Operation Mode | :TX LOW | | |
| EUT Pol. | :E2 Plam | Measurement Antenna Pol. | :VERTICAL |

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG | Antenna | Cable | Limit | Margin |
|--------------|-----------------|-------------|---------------------|-------------|------------|--------|--------|
| | | | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 38.73 | S | -49.70 | -36.61 | -12.29 | -0.80 | -13.00 | -36.70 |
| 280.26 | S | -66.92 | -70.58 | 5.47 | -1.81 | -13.00 | -53.92 |
| 290.93 | S | -66.97 | -70.73 | 5.60 | -1.84 | -13.00 | -53.97 |
| 549.92 | S | -69.53 | -73.08 | 6.04 | -2.49 | -13.00 | -56.53 |
| 692.51 | S | -64.14 | -67.45 | 6.04 | -2.73 | -13.00 | -51.14 |
| 937.92 | S | -62.86 | -65.33 | 5.79 | -3.32 | -13.00 | -49.86 |
| 3704.80 | H | -40.99 | -42.81 | 8.63 | -6.80 | -13.00 | -27.99 |
| 5557.20 | H | -34.23 | -36.12 | 10.30 | -8.40 | -13.00 | -21.23 |
| 7409.60 | H | --- | | | | | |
| 9262.00 | H | --- | | | | | |
| 11114.40 | H | --- | | | | | |
| 12966.80 | H | --- | | | | | |
| 14819.20 | H | --- | | | | | |
| 16671.60 | H | --- | | | | | |
| 18524.00 | H | --- | | | | | |

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + 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 B2 | Test Date | :2014-05-08 |
| ARFCN | :CH 9262 | Temp./Humi. | :23 deg_C / 65 RH |
| Fundamental Frequency | :1852.4 MHz | Engineer | :Curry |
| Operation Mode | :TX LOW | | |
| EUT Pol. | :E2 Plam | Measurement Antenna Pol. | :HORIZONTAL |

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG | Antenna | Cable | Limit | Margin |
|--------------|-----------------|-------------|---------------------|-------------|------------|--------|--------|
| | | | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 39.70 | S | -65.14 | -52.17 | -12.17 | -0.80 | -13.00 | -52.14 |
| 280.26 | S | -64.50 | -68.16 | 5.47 | -1.81 | -13.00 | -51.50 |
| 294.81 | S | -61.70 | -65.52 | 5.67 | -1.85 | -13.00 | -48.70 |
| 550.89 | S | -68.37 | -71.91 | 6.03 | -2.49 | -13.00 | -55.37 |
| 689.60 | S | -64.20 | -67.51 | 6.04 | -2.73 | -13.00 | -51.20 |
| 773.02 | S | -62.22 | -65.27 | 5.95 | -2.90 | -13.00 | -49.22 |
| 3704.80 | H | -48.00 | -49.83 | 8.63 | -6.80 | -13.00 | -35.00 |
| 5557.20 | H | -43.99 | -45.88 | 10.30 | -8.41 | -13.00 | -30.99 |
| 7409.60 | H | --- | | | | | |
| 9262.00 | H | --- | | | | | |
| 11114.40 | H | --- | | | | | |
| 12966.80 | H | --- | | | | | |
| 14819.20 | H | --- | | | | | |
| 16671.60 | H | --- | | | | | |
| 18524.00 | H | | | | | | |

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + 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 B2 | Test Date | :2014-05-08 |
| ARFCN | :CH 9400 | Temp./Humi. | :23 deg_C / 65 RH |
| Fundamental Frequency | :1880.0 MHz | Engineer | :Curry |
| Operation Mode | :TX MID | | |
| EUT Pol. | :E2 Plam | Measurement Antenna Pol. | :VERTICAL |

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG | Antenna | Cable | Limit | Margin |
|--------------|-----------------|-------------|---------------------|-------------|------------|--------|--------|
| | | | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 39.70 | S | -49.45 | -36.48 | -12.17 | -0.80 | -13.00 | -36.45 |
| 279.29 | S | -65.78 | -69.44 | 5.48 | -1.81 | -13.00 | -52.78 |
| 292.87 | S | -66.70 | -70.48 | 5.64 | -1.85 | -13.00 | -53.70 |
| 522.76 | S | -69.25 | -72.81 | 5.97 | -2.42 | -13.00 | -56.25 |
| 694.45 | S | -64.37 | -67.67 | 6.04 | -2.73 | -13.00 | -51.37 |
| 915.61 | S | -63.07 | -65.59 | 5.80 | -3.28 | -13.00 | -50.07 |
| 3760.00 | H | -40.31 | -42.19 | 8.74 | -6.85 | -13.00 | -27.31 |
| 5640.00 | H | -36.36 | -38.19 | 10.30 | -8.47 | -13.00 | -23.36 |
| 7520.00 | H | --- | | | | | |
| 9400.00 | H | --- | | | | | |
| 11280.00 | H | --- | | | | | |
| 13160.00 | H | --- | | | | | |
| 15040.00 | H | --- | | | | | |
| 16920.00 | H | --- | | | | | |
| 18800.00 | H | --- | | | | | |

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + 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 B2 | Test Date | :2014-05-08 |
| ARFCN | :CH 9400 | Temp./Humi. | :23 deg_C / 65 RH |
| Fundamental Frequency | :1880.0 MHz | Engineer | :Curry |
| Operation Mode | :TX MID | | |
| EUT Pol. | :E2 Plam | Measurement Antenna Pol. | :HORIZONTAL |

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG | Antenna | Cable | Limit | Margin |
|--------------|-----------------|-------------|---------------------|-------------|------------|--------|--------|
| | | | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 39.70 | S | -64.90 | -51.94 | -12.17 | -0.80 | -13.00 | -51.90 |
| 277.35 | S | -64.04 | -67.73 | 5.49 | -1.80 | -13.00 | -51.04 |
| 291.90 | S | -61.98 | -65.75 | 5.62 | -1.85 | -13.00 | -48.98 |
| 465.53 | S | -67.78 | -71.28 | 5.76 | -2.26 | -13.00 | -54.78 |
| 693.48 | S | -63.94 | -67.24 | 6.04 | -2.73 | -13.00 | -50.94 |
| 773.99 | S | -62.91 | -65.97 | 5.96 | -2.90 | -13.00 | -49.91 |
| 3760.00 | H | -47.83 | -49.72 | 8.74 | -6.85 | -13.00 | -34.83 |
| 5640.00 | H | -43.81 | -45.64 | 10.30 | -8.47 | -13.00 | -30.81 |
| 7520.00 | H | --- | | | | | |
| 9400.00 | H | --- | | | | | |
| 11280.00 | H | --- | | | | | |
| 13160.00 | H | --- | | | | | |
| 15040.00 | H | --- | | | | | |
| 16920.00 | H | --- | | | | | |
| 18800.00 | H | --- | | | | | |

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + 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 B2 | Test Date | :2014-05-08 |
| ARFCN | :CH 9538 | Temp./Humi. | :23 deg_C / 65 RH |
| Fundamental Frequency | :1907.6 MHz | Engineer | :Curry |
| Operation Mode | :TX HIGH | | |
| EUT Pol. | :E2 Plam | Measurement Antenna Pol. | :VERTICAL |

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG | Antenna | Cable | Limit | Margin |
|--------------|-----------------|-------------|---------------------|-------------|------------|--------|--------|
| | | | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 39.70 | S | -49.56 | -36.59 | -12.17 | -0.80 | -13.00 | -36.56 |
| 277.35 | S | -66.05 | -69.74 | 5.49 | -1.80 | -13.00 | -53.05 |
| 291.90 | S | -67.97 | -71.74 | 5.62 | -1.85 | -13.00 | -54.97 |
| 550.89 | S | -69.28 | -72.82 | 6.03 | -2.49 | -13.00 | -56.28 |
| 700.27 | S | -63.80 | -67.09 | 6.03 | -2.74 | -13.00 | -50.80 |
| 947.62 | S | -62.84 | -65.29 | 5.78 | -3.33 | -13.00 | -49.84 |
| 3815.20 | H | -34.74 | -36.69 | 8.86 | -6.90 | -13.00 | -21.74 |
| 5722.80 | H | -34.64 | -36.40 | 10.30 | -8.54 | -13.00 | -21.64 |
| 7630.40 | H | --- | | | | | |
| 9538.00 | H | --- | | | | | |
| 11445.60 | H | --- | | | | | |
| 13353.20 | H | --- | | | | | |
| 15260.80 | H | --- | | | | | |
| 17168.40 | H | --- | | | | | |
| 19076.00 | H | --- | | | | | |

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + 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 B2 | Test Date | :2014-05-08 |
| ARFCN | :CH 9538 | Temp./Humi. | :23 deg_C / 65 RH |
| Fundamental Frequency | :1907.6 MHz | Engineer | :Curry |
| Operation Mode | :TX HIGH | | |
| EUT Pol. | :E2 Plam | Measurement Antenna Pol. | :HORIZONTAL |

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG | Antenna | Cable | Limit | Margin |
|--------------|-----------------|-------------|---------------------|-------------|------------|--------|--------|
| | | | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 39.70 | S | -64.62 | -51.65 | -12.17 | -0.80 | -13.00 | -51.62 |
| 275.41 | S | -63.52 | -67.24 | 5.51 | -1.79 | -13.00 | -50.52 |
| 293.84 | S | -63.33 | -67.14 | 5.65 | -1.85 | -13.00 | -50.33 |
| 517.91 | S | -68.40 | -71.96 | 5.96 | -2.40 | -13.00 | -55.40 |
| 700.27 | S | -63.88 | -67.17 | 6.03 | -2.74 | -13.00 | -50.88 |
| 769.14 | S | -62.97 | -66.01 | 5.93 | -2.89 | -13.00 | -49.97 |
| 3815.20 | H | -45.24 | -47.19 | 8.85 | -6.90 | -13.00 | -32.24 |
| 5722.80 | H | -43.59 | -45.35 | 10.30 | -8.54 | -13.00 | -30.59 |
| 7630.40 | H | --- | | | | | |
| 9538.00 | H | --- | | | | | |
| 11445.60 | H | --- | | | | | |
| 13353.20 | H | --- | | | | | |
| 15260.80 | H | --- | | | | | |
| 17168.40 | H | --- | | | | | |
| 19076.00 | H | --- | | | | | |

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + 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: HSDPA V Mode

| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :HSDPA B5 | Test Date | :2014-05-08 |
| ARFCN | :CH 4132 | Temp./Humi. | :23 deg_C / 65 RH |
| Fundamental Frequency | :826.4 MHz | Engineer | :Curry |
| Operation Mode | :TX LOW | | |
| EUT Pol. | :H Plam | Measurement Antenna Pol. | :VERTICAL |

| Freq. MHz | Note F/H/E/S | ERP dBm | SG | Antenna | Cable | Limit | Margin |
|--------------|-----------------|------------|---------------------|-------------|------------|--------|--------|
| | | | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 40.67 | S | -53.39 | -38.41 | -14.16 | -0.81 | -13.00 | -40.39 |
| 236.61 | S | -66.65 | -68.38 | 3.39 | -1.66 | -13.00 | -53.65 |
| 432.55 | S | -58.01 | -59.47 | 3.63 | -2.17 | -13.00 | -45.01 |
| 553.80 | S | -68.10 | -69.45 | 3.85 | -2.50 | -13.00 | -55.10 |
| 614.91 | S | -62.49 | -63.45 | 3.59 | -2.64 | -13.00 | -49.49 |
| 676.02 | S | -66.02 | -67.21 | 3.91 | -2.71 | -13.00 | -53.02 |
| 1652.80 | H | -40.94 | -40.07 | 3.54 | -4.42 | -13.00 | -27.94 |
| 2479.20 | H | -54.12 | -52.32 | 3.65 | -5.45 | -13.00 | -41.12 |
| 3305.60 | H | -49.04 | -48.17 | 5.57 | -6.43 | -13.00 | -36.04 |
| 4132.00 | H | --- | | | | | |
| 4958.40 | H | --- | | | | | |
| 5784.80 | H | --- | | | | | |
| 6611.20 | H | | | | | | |
| 7437.60 | H | | | | | | |
| 8264.00 | H | | | | | | |

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

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

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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :HSDPA B5 | Test Date | :2014-05-08 |
| ARFCN | :CH 4132 | Temp./Humi. | :23 deg_C / 65 RH |
| Fundamental Frequency | :826.4 MHz | Engineer | :Curry |
| Operation Mode | :TX LOW | | |
| EUT Pol. | :H Plam | Measurement Antenna Pol. | :HORIZONTAL |

| Freq. MHz | Note F/H/E/S | ERP dBm | SG | Antenna | Cable | Limit | Margin |
|--------------|-----------------|------------|---------------------|-------------|------------|--------|--------|
| | | | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 43.58 | S | -58.87 | -44.31 | -13.68 | -0.88 | -13.00 | -45.87 |
| 96.93 | S | -67.80 | -65.65 | -0.95 | -1.20 | -13.00 | -54.80 |
| 236.61 | S | -66.09 | -67.82 | 3.39 | -1.66 | -13.00 | -53.09 |
| 294.81 | S | -67.53 | -69.20 | 3.52 | -1.85 | -13.00 | -54.53 |
| 558.65 | S | -67.96 | -69.25 | 3.81 | -2.51 | -13.00 | -54.96 |
| 695.42 | S | -66.80 | -67.95 | 3.89 | -2.73 | -13.00 | -53.80 |
| 1652.80 | H | -45.95 | -45.08 | 3.54 | -4.42 | -13.00 | -32.95 |
| 2479.20 | H | -53.87 | -52.08 | 3.67 | -5.46 | -13.00 | -40.87 |
| 3305.60 | H | -53.65 | -52.76 | 5.54 | -6.43 | -13.00 | -40.65 |
| 4132.00 | H | -54.74 | -54.67 | 7.10 | -7.16 | -13.00 | -41.74 |
| 4958.40 | H | | | | | | |
| 5784.80 | H | | | | | | |
| 6611.20 | H | | | | | | |
| 7437.60 | H | | | | | | |
| 8264.00 | H | | | | | | |

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

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

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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :HSDPA B5 | Test Date | :2014-05-08 |
| ARFCN | :CH 4183 | Temp./Humi. | :23 deg_C / 65 RH |
| Fundamental Frequency | :836.6 MHz | Engineer | :Curry |
| Operation Mode | :TX MID | | |
| EUT Pol. | :H Plam | Measurement Antenna Pol. | :VERTICAL |

| Freq. MHz | Note F/H/E/S | ERP dBm | SG | Antenna | Cable | Limit | Margin |
|--------------|-----------------|------------|---------------------|-------------|------------|--------|--------|
| | | | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 39.70 | S | -56.99 | -41.88 | -14.32 | -0.80 | -13.00 | -43.99 |
| 236.61 | S | -65.98 | -67.72 | 3.39 | -1.66 | -13.00 | -52.98 |
| 297.72 | S | -69.07 | -70.78 | 3.58 | -1.86 | -13.00 | -56.07 |
| 558.65 | S | -67.99 | -69.29 | 3.81 | -2.51 | -13.00 | -54.99 |
| 614.91 | S | -63.71 | -64.67 | 3.59 | -2.64 | -13.00 | -50.71 |
| 691.54 | S | -66.60 | -67.76 | 3.89 | -2.73 | -13.00 | -53.60 |
| 1673.20 | H | -43.02 | -42.03 | 3.46 | -4.45 | -13.00 | -30.02 |
| 2509.80 | H | -50.29 | -48.51 | 3.71 | -5.48 | -13.00 | -37.29 |
| 3346.40 | H | -48.05 | -47.25 | 5.67 | -6.47 | -13.00 | -35.05 |
| 4183.00 | H | | | | | | |
| 5019.60 | H | | | | | | |
| 5856.20 | H | | | | | | |
| 6692.80 | H | | | | | | |
| 7529.40 | H | | | | | | |
| 8366.00 | H | | | | | | |

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

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

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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :HSDPA B5 | Test Date | :2014-05-08 |
| ARFCN | :CH 4183 | Temp./Humi. | :23 deg_C / 65 RH |
| Fundamental Frequency | :836.6 MHz | Engineer | :Curry |
| Operation Mode | :TX MID | | |
| EUT Pol. | :H Plam | Measurement Antenna Pol. | :HORIZONTAL |

| Freq. MHz | Note F/H/E/S | ERP dBm | SG | Antenna | Cable | Limit | Margin |
|--------------|-----------------|------------|---------------------|-------------|------------|--------|--------|
| | | | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 44.55 | S | -58.98 | -44.56 | -13.53 | -0.90 | -13.00 | -45.98 |
| 236.61 | S | -66.17 | -67.90 | 3.39 | -1.66 | -13.00 | -53.17 |
| 292.87 | S | -68.67 | -70.31 | 3.49 | -1.85 | -13.00 | -55.67 |
| 558.65 | S | -67.96 | -69.26 | 3.81 | -2.51 | -13.00 | -54.96 |
| 614.91 | S | -63.79 | -64.75 | 3.59 | -2.64 | -13.00 | -50.79 |
| 696.39 | S | -66.43 | -67.58 | 3.88 | -2.74 | -13.00 | -53.43 |
| 1673.20 | H | -44.59 | -43.61 | 3.46 | -4.45 | -13.00 | -31.59 |
| 2509.80 | H | -52.53 | -50.75 | 3.72 | -5.50 | -13.00 | -39.53 |
| 3346.40 | H | -53.21 | -52.41 | 5.67 | -6.47 | -13.00 | -40.21 |
| 4183.00 | H | | | | | | |
| 5019.60 | H | | | | | | |
| 5856.20 | H | | | | | | |
| 6692.80 | H | | | | | | |
| 7529.40 | H | | | | | | |
| 8366.00 | H | | | | | | |

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

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

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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :HSDPA B5 | Test Date | :2014-05-08 |
| ARFCN | :CH 4233 | Temp./Humi. | :23 deg_C / 65 RH |
| Fundamental Frequency | :846.6 MHz | Engineer | :Curry |
| Operation Mode | :TX HIGH | | |
| EUT Pol. | :H Plam | Measurement Antenna Pol. | :VERTICAL |

| Freq. MHz | Note F/H/E/S | ERP dBm | SG | Antenna | Cable | Limit | Margin |
|--------------|-----------------|------------|---------------------|-------------|------------|--------|--------|
| | | | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 38.73 | S | -52.47 | -37.23 | -14.44 | -0.80 | -13.00 | -39.47 |
| 236.61 | S | -65.83 | -67.56 | 3.39 | -1.66 | -13.00 | -52.83 |
| 323.91 | S | -67.54 | -69.50 | 3.89 | -1.92 | -13.00 | -54.54 |
| 480.08 | S | -65.24 | -66.61 | 3.68 | -2.30 | -13.00 | -52.24 |
| 614.91 | S | -63.87 | -64.82 | 3.59 | -2.64 | -13.00 | -50.87 |
| 676.02 | S | -66.42 | -67.61 | 3.91 | -2.71 | -13.00 | -53.42 |
| 1693.20 | H | -45.30 | -44.23 | 3.41 | -4.48 | -13.00 | -32.30 |
| 2539.80 | H | -54.47 | -52.72 | 3.78 | -5.53 | -13.00 | -41.47 |
| 3386.40 | H | -47.91 | -47.17 | 5.77 | -6.51 | -13.00 | -34.91 |
| 4233.00 | H | | | | | | |
| 5079.60 | H | | | | | | |
| 5926.20 | H | | | | | | |
| 6772.80 | H | | | | | | |
| 7619.40 | H | | | | | | |
| 8466.00 | H | | | | | | |

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

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

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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :HSDPA B5 | Test Date | :2014-05-08 |
| ARFCN | :CH 4233 | Temp./Humi. | :23 deg_C / 65 RH |
| Fundamental Frequency | :846.6 MHz | Engineer | :Curry |
| Operation Mode | :TX HIGH | | |
| EUT Pol. | :H Plam | Measurement Antenna Pol. | :HORIZONTAL |

| Freq. MHz | Note F/H/E/S | ERP dBm | SG | Antenna | Cable | Limit | Margin |
|--------------|-----------------|------------|---------------------|-------------|------------|--------|--------|
| | | | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 44.55 | S | -57.26 | -42.84 | -13.53 | -0.90 | -13.00 | -44.26 |
| 236.61 | S | -66.64 | -68.37 | 3.39 | -1.66 | -13.00 | -53.64 |
| 292.87 | S | -69.50 | -71.13 | 3.49 | -1.85 | -13.00 | -56.50 |
| 480.08 | S | -67.99 | -69.37 | 3.68 | -2.30 | -13.00 | -54.99 |
| 692.51 | S | -65.96 | -67.12 | 3.89 | -2.73 | -13.00 | -52.96 |
| 760.41 | S | -65.26 | -66.13 | 3.74 | -2.87 | -13.00 | -52.26 |
| 1693.20 | H | -51.32 | -50.26 | 3.41 | -4.48 | -13.00 | -38.32 |
| 2539.80 | H | -53.98 | -52.23 | 3.78 | -5.53 | -13.00 | -40.98 |
| 3386.40 | H | -51.04 | -50.31 | 5.77 | -6.51 | -13.00 | -38.04 |
| 4233.00 | H | | | | | | |
| 5079.60 | H | | | | | | |
| 5926.20 | H | | | | | | |
| 6772.80 | H | | | | | | |
| 7619.40 | H | | | | | | |
| 8466.00 | H | | | | | | |

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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11. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

11.1. Standard Applicable:

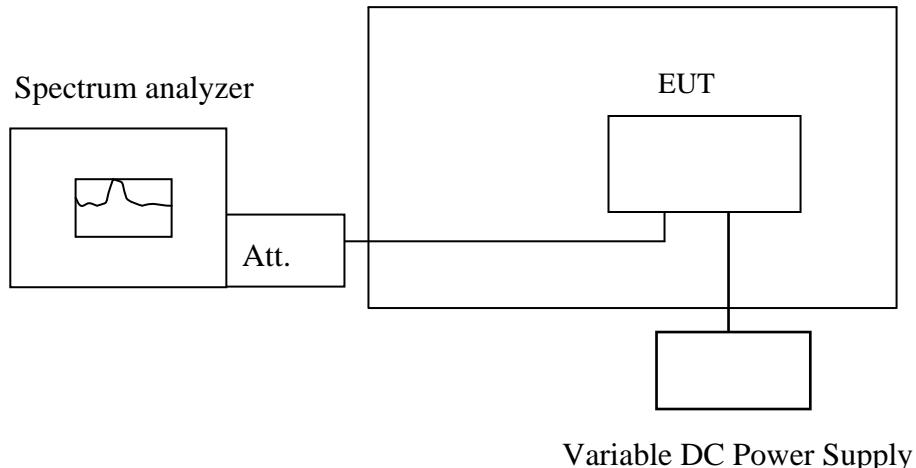
According to FCC §2.1055(a) (1)

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

+/-2.5ppm for 1900MHz band

11.2. Test Set-up:

Temperature Chamber



Note: Measurement setup for testing on Antenna connector

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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 25 °C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30 °C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10 °C increased per stage until the highest temperature of +50 °C 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 | 50 | 836599999 | 12 | 2091 |
| 3.7 | 40 | 836599987 | 0 | 2091 |
| 3.7 | 30 | 836599990 | 3 | 2091 |
| 3.7 | 20 | 836599987 | 0 | 2091 |
| 3.7 | 10 | 836599991 | 4 | 2091 |
| 3.7 | 0 | 836599999 | 12 | 2091 |
| 3.7 | -10 | 836599995 | 8 | 2091 |
| 3.7 | -20 | 836599985 | -2 | 2091 |
| 3.7 | -30 | 836599988 | 1 | 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) | | |
| 3.7 | 50 | 1879999999 | 7 | 4700 |
| 3.7 | 40 | 1879999994 | 2 | 4700 |
| 3.7 | 30 | 1879999992 | 0 | 4700 |
| 3.7 | 20 | 1879999992 | 0 | 4700 |
| 3.7 | 10 | 1879999996 | 4 | 4700 |
| 3.7 | 0 | 1879999993 | 1 | 4700 |
| 3.7 | -10 | 1879999994 | 2 | 4700 |
| 3.7 | -20 | 1879999985 | -7 | 4700 |
| 3.7 | -30 | 1879999989 | -3 | 4700 |

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| Reference Frequency: WCDMA II Mid Channel 1880 | | | | |
|--|------------------|------------|------------|------------|
| Limit: +/- 2.5 ppm = 4700 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 3.7 | 50 | 1879999989 | 0 | 4700 |
| 3.7 | 40 | 1879999985 | -4 | 4700 |
| 3.7 | 30 | 1879999977 | -12 | 4700 |
| 3.7 | 20 | 1879999989 | 0 | 4700 |
| 3.7 | 10 | 1879999979 | -10 | 4700 |
| 3.7 | 0 | 1879999980 | -9 | 4700 |
| 3.7 | -10 | 1880000018 | 29 | 4700 |
| 3.7 | -20 | 1880000030 | 41 | 4700 |
| 3.7 | -30 | 1880000029 | 40 | 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 | 50 | 836600012 | 17 | 2091 |
| 3.7 | 40 | 836599992 | -3 | 2091 |
| 3.7 | 30 | 836599987 | -8 | 2091 |
| 3.7 | 20 | 836599995 | 0 | 2091 |
| 3.7 | 10 | 836600009 | 14 | 2091 |
| 3.7 | 0 | 836599994 | -1 | 2091 |
| 3.7 | -10 | 836599990 | -5 | 2091 |
| 3.7 | -20 | 836600013 | 18 | 2091 |
| 3.7 | -30 | 836600016 | 21 | 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(d) (2)

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

+/-2.5ppm for 1900MHz band

12.2. Test Set-up:

Refer to section 11.2 in this report

12.3. Measurement Procedure:

Set chamber temperature to 20°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 specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, 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 850 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 | 836599991 | 4 | 2091 |
| 3.7 | 20 | 836599987 | 0 | 2091 |
| 3.4 | 20 | 836600008 | 21 | 2091 |
| 2.9 (End point) | 20 | 836599989 | 2 | 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 | 1879999989 | -3 | 4700 |
| 3.7 | 20 | 1879999992 | 0 | 4700 |
| 3.4 | 20 | 1879999987 | -5 | 4700 |
| 2.8 (End point) | 20 | 1880000003 | 11 | 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 | 1879999986 | -3 | 4700 |
| 3.7 | 20 | 1879999989 | 0 | 4700 |
| 3.4 | 20 | 1879999987 | -2 | 4700 |
| 2.7 (End point) | 20 | 1879999988 | -1 | 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 | 836599991 | -4 | 2091 |
| 3.7 | 20 | 836599995 | 0 | 2091 |
| 3.4 | 20 | 836600010 | 15 | 2091 |
| 2.8 (End point) | 20 | 836600003 | 8 | 2091 |

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