

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 90 S REQUIREMENT

OF

Product Name: Juno T41/5
Brand Name: Trimble
Marketing Name: RH42G
Model No.: JUNO/T41/5-BWC2RFG
Model Difference: N/A
FCC ID: S9E-JUNO41WN
Report No.: ER/2015/60004
Issue Date: Jun. 26, 2015
FCC Rule Part: 2 , 22H & 24E & 90S
Prepared for: Trimble Navigation Limited
345 SW Avery Avenue, Corvallis, OR 97333
Prepared by: SGS Taiwan Ltd.
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VERIFICATION OF COMPLIANCE

Applicant: Trimble Navigation Limited
345 SW Avery Avenue, Corvallis, OR 97333

Product Name: Juno T41/5

Brand Name: Trimble

Marketing Name: RH42G

Model No.: JUNO/T41/5-BWC2RFG

Model Difference: N/A

FCC ID: S9E-JUNO41WN

Report Number: ER/2015/60004


Date of test: Jun. 03, 2015 ~ Jun. 18, 2015

Date of EUT Received: Jun. 03, 2015

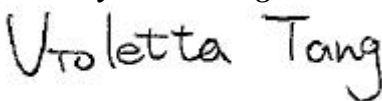
We hereby certify that:

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.

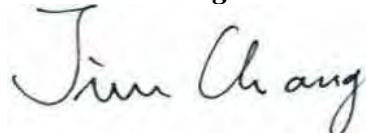
The test results of this report relate only to the tested sample identified in this report.

Test By:  **Date:** Jun. 26, 2015

Curry Chen / Engineer

Prepared By:  **Date:** Jun. 26, 2015

Violetta Tang / Clerk

Approved By:  **Date:** Jun. 26, 2015

Jim Chang / Asst. Manager

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Revision History

| Report Number | Revision | Description | Issue Date |
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| ER/2015/60004 | Rev.00 | Initial creation of document | Jun. 26, 2015 |
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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

| | | |
|-------------------|---|--|
| Product Name: | Juno T41/5 | |
| Brand Name: | Trimble | |
| Marketing Name: | RH42G | |
| Model No.: | JUNO/T41/5-BWC2RFG | |
| Model Difference: | N/A | |
| Hardware Version: | V9 | |
| Software Version: | 1.0.8(Build 396) | |
| Data Cable (USB): | Model No.: A9136939, Supplier: Sinbon | |
| Power Supply: | 3.7Vdc Rechargeable Li-ion Battery or 5Vdc from AC/DC Adapter | |
| | Battery: | Model No.: S11GD103A, Supplier: LICO |
| | Adapter: | Model No.: PSA10F-050Q, Supplier: PHIHONG TECHNOLOGY CO., |

GPRS / WCDMA/ CDMA:

| Cellular Phone Standards Frequency Range and Power | Operating Frequency | | Rated Power |
|--|----------------------------------|-----------------------|-------------|
| | GPRS 850 | 824.2 MHz– 848.8 MHz | 33dBm |
| | EDGE 850 | 824.2 MHz– 848.8 MHz | 27dBm |
| | GPRS 1900 | 1850.2MHz – 1909.8MHz | 30dBm |
| | EDGE 1900 | 1850.2MHz – 1909.8MHz | 26dBm |
| | WCDMA/HSUPA/HSDPA /HSPA+ Band II | 1852.4MHz – 1907.6MHz | 24dBm |
| | WCDMA/HSUPA/HSDPA /HSPA+ Band V | 826.4MHz - 846.6MHz | 24dBm |
| | CDMA/EVDO BC0 | 824.7 MHz– 848.31MHz | 24 dBm |
| | CDMA/EVDO BC1 | 1851.25MHz-1908.75MHz | 24 dBm |
| | CDMA/EVDO BC10 | 817.9 MHz – 823.1 MHz | 24 dBm |

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| | | |
|-------------------|-----------------|---------|
| Type of Emission: | GPRS 850 | 246KGXW |
| | EDGE 850 | 250KG7W |
| | GPRS 1900 | 243KGXW |
| | EDGE 1900 | 253KG7W |
| | WCDMA Band II | 4M16F9W |
| | HSDPA Band II | 4M16F9W |
| | HSUPA Band II | 4M15F9W |
| | WCDMA Band V | 4M18F9W |
| | HSDPA Band V | 4M17F9W |
| | HSUPA Band V | 4M18F9W |
| | CDMA BC0 | 1M27F9W |
| | EVDO BC0 | 1M27F9W |
| | CDMA BC1 | 1M27F9W |
| | EVDO BC1 | 1M28F9W |
| | CDMA BC10 | 1M27F9W |
| | EVDO BC10 | 1M27F9W |
| IMEI: | 990002189069246 | |

Max ERP/EIRP measurement result:

| | dBm | | W |
|----------------|-------|------|-------|
| GPRS 850 Band | 22.90 | ERP | 0.195 |
| EDGE 850 Band | 19.45 | ERP | 0.088 |
| GPRS 1900 Band | 30.96 | EIRP | 1.247 |
| EDGE 1900 Band | 29.24 | EIRP | 0.839 |
| WCDMA Band II | 26.86 | EIRP | 0.485 |
| HSDPA Band II | 27.33 | EIRP | 0.541 |
| HSUPA Band II | 27.75 | EIRP | 0.596 |
| WCDMA Band V | 18.52 | ERP | 0.071 |
| HSDPA Band V | 19.28 | ERP | 0.085 |
| HSUPA Band V | 19.42 | ERP | 0.087 |
| CDMA 2000 BC0 | 16.02 | ERP | 0.040 |
| EVDO 2000 BC0 | 14.48 | ERP | 0.028 |
| CDMA 2000 BC1 | 25.17 | EIRP | 0.329 |
| EVDO 2000 BC1 | 24.37 | EIRP | 0.274 |
| CDMA 2000 BC10 | 15.42 | ERP | 0.035 |
| EVDO 2000 BC10 | 14.73 | ERP | 0.030 |

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1.2. Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is Juno T41/5 supporting, GSM / WCDMA / CDMA, Wi-Fi 802.11bgn, Bluetooth with RFID features, and below is details of information.

| Product Feature | |
|-------------------------------|--------------------|
| Product Name: | Juno T41/5 |
| Brand Name: | Trimble |
| Marketing Name: | RH42G |
| Model No.: | JUNO/T41/5-BWC2RFG |
| Model Difference: | N/A |
| FCC ID | S9E-JUNO41WN |
| GSM Operating Band(s) | GSM 850 / 1900MHz |
| GPRS / EGPRS Multi Slot Class | Class 12 |
| WCDMA Operating Band(s) | FDD Band II / V |
| CDMA / EVDO Operating Band(s) | BC0 / BC1 / BC10 |
| Wi-Fi Specification | 802.11b/g/n |
| Bluetooth Version | V2.1+EDR |
| RFID Specification | RFID |

Note: The above EUT information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.3. Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22, 24, Part 90S.

ANSI / TIA / EIA 603C-C-2004

KDB971168 D01 Power Meas license Digital System v02r01

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

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

Note:

1. All test items have been performed and record as per the above standards.
2. The composite system is compliance with FCC Subpart B is authorized under the certification procedure.

1.4. Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. (TAF code 0513)

FCC Registration Numbers are: 990257

Canada Registration Number: 4620A-5.

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

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2.4. Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Following shows an offset computation example with cable loss and attenuator.

Low Band: Offset = RF cable loss (dB) + attenuation factor (dB) = 13.7(dB)

High Band: Offset = RF cable loss (dB) + attenuation factor (dB) = 13.9(dB)

2.5. Final Amplifier Voltage and Current Information:

| Test Mode | DC voltage (V) | DC current (mA) |
|-----------|----------------|-----------------|
| GPRS 850 | 3.7V | 276 |
| GPRS 1900 | 3.7V | 241 |
| EDGE 850 | 3.7V | 190 |
| EDGE 1900 | 3.7V | 198 |
| HSDPA B2 | 3.7V | 763 |
| HSUPA B5 | 3.7V | 826 |
| EVDO BC0 | 3.7V | 1014 |
| EVDO BC1 | 3.7V | 915 |
| EVDO BC10 | 3.7V | 622 |

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2.6. Configuration of Tested System

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

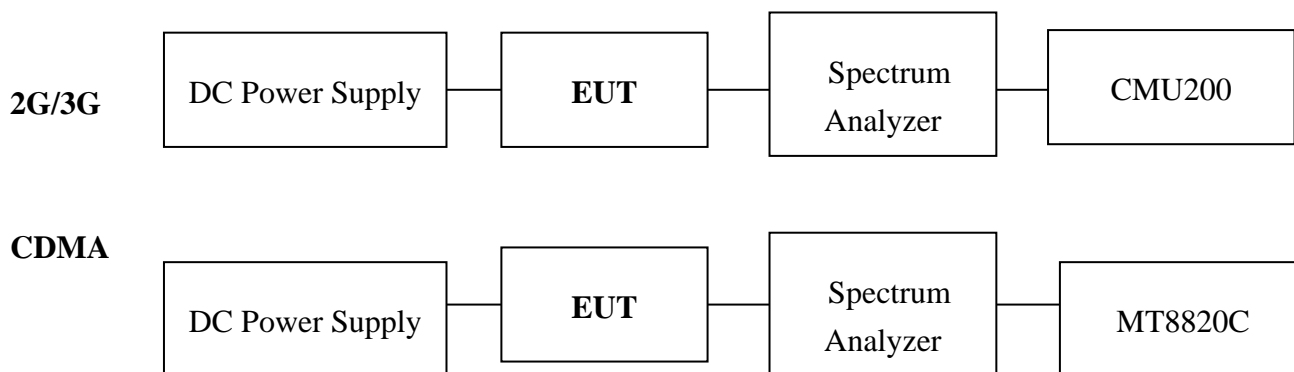


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

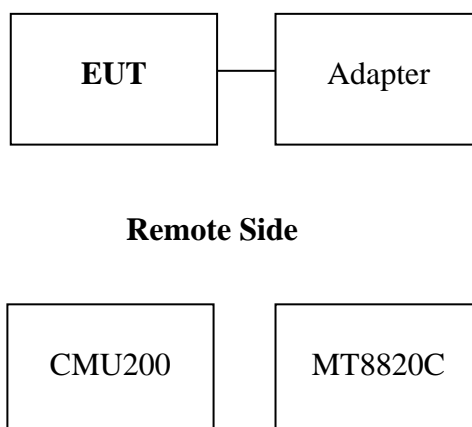


Table 2-1 Equipment Used in

| 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. | Universal Radio Communication Tester | Anritsu | MT8820C | 6200307563 | shielded | Un-shielded |
| 3. | DC Power Supply | HP | E3640A | MY40005907 | 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) §90.635 | ERP/ EIRP measurement | Compliant |
| §2.1049(h) | Occupied Bandwidth | Compliant |
| §2.1051 §22.917(a) §24.238(a) §90.691 | Out of Band Emissions at Antenna Terminals and Band Edge | Compliant |
| §2.1053 §22.917(a) §24.238(a) §90.691(a)(1)(2) | Field Strength of Spurious Radiation | Compliant |
| §24.232(d) | Peak to Average Ratio | Compliant |
| §2.1055(a)(1) §22.355 §24.235 §90.231 | Frequency Stability | Compliant |

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4. DESCRIPTION OF TEST MODES

4.1. The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

| BAND | ERP/EIRP | RADIATED EMISSION |
|--------------------|----------|-------------------|
| GPRS/EDGE 850 | H-plan | H-plan |
| GPRS/EDGE 1900 | E1-plan | E1-plan |
| WCDMA/HSPA Band II | E1-plan | E1-plan |
| WCDMA/HSPA Band V | H-plan | H-plan |
| CDMA / EVDO BC 0 | E2-plan | E2-plan |
| CDMA / EVDO BC 1 | E2-plan | E2-plan |
| CDMA / EVDO BC 10 | H-plan | H-plan |

GSM/GPRS/EDGE MODE

| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | MODE |
|-----------------------|--------------------------|--------------------------------|---------------------------------|
| ERP | 128 to 251 | 128, 190, 251 | GPRS/EDGE 850 |
| EIRP | 512 to 810 | 512, 661, 810 | GPRS/EDGE 1900 |
| FREQUENCY STABILITY | 128 to 251 512 to 810 | 190 661 | GPRS 850 GPRS 1900 |
| OCCUPIED BANDWIDTH | 128 to 251 512 to 810 | 128, 190, 251 512, 661, 810 | GPRS/EDGE 850 GPRS/EDGE 1900 |
| PEAK TO AVERAGE RATIO | 128 to 251 512 to 810 | 128, 190, 251 512, 661, 810 | GPRS/EDGE 850 GPRS/EDGE 1900 |
| BAND EDGE | 128 to 251 512 to 810 | 128, 251 512, 810 | GPRS/EDGE 850 GPRS/EDGE 1900 |
| CONDUCTED EMISSION | 128 to 251 512 to 810 | 128, 190, 251 512, 661, 810 | GPRS/EDGE 850 GPRS/EDGE 1900 |
| RADIATED EMISSION | 128 to 251 512 to 810 | 128, 190, 251 512, 661, 810 | GPRS 850 GPRS 1900 |

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WCDMA/HSPA MODE

| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | MODE |
|-----------------------|------------------------------|--------------------------------------|---|
| ERP | 4132 to 4233 | 4132, 4183, 4233 | WCDMA/HSPA Band V |
| EIRP | 9262 to 9538 | 9262, 9400, 9583 | WCDMA/HSPA Band II |
| FREQUENCY STABILITY | 4132 to 4233 9262 to 9538 | 4183 9400 | WCDMA Band II WCDMA Band V |
| OCCUPIED BANDWIDTH | 4132 to 4233 9262 to 9538 | 4132, 4183, 4233 9262, 9400, 9583 | WCDMA/HSPA Band II WCDMA/HSPA Band V |
| PEAK TO AVERAGE RATIO | 4132 to 4233 9262 to 9538 | 4132, 4183, 4233 9262, 9400, 9583 | WCDMA/HSPA Band II WCDMA/HSPA Band V |
| BAND EDGE | 4132 to 4233 9262 to 9538 | 4132, 4233 9262, 9583 | HSUPA Band II HSUPA Band V |
| CONDUCTED EMISSION | 4132 to 4233 9262 to 9538 | 4132, 4183, 4233 9262, 9400, 9583 | HSUPA Band II HSUPA Band V |
| RADIATED EMISSION | 4132 to 4233 9262 to 9538 | 4132, 4183, 4233 9262, 9400, 9583 | HSUPA Band II HSUPA Band V |

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CDMA/EVDO MODE

| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | MODE |
|-----------------------|---|--|--|
| ERP | 1013 to 777 476 to 684 | 1013, 384, 777 476, 580, 684 | CDMA/EVDO BC0 CDMA/EVDO BC10 |
| EIRP | 25 to 1175 | 25, 600, 1175 | CDMA/EVDO BC1 |
| FREQUENCY STABILITY | 1013 to 777 25 to 1175 476 to 684 | 1013, 384, 777 25, 600, 1175 476, 580, 684 | CDMA BC0 CDMA BC1 CDMA BC10 |
| OCCUPIED BANDWIDTH | 1013 to 777 25 to 1175 476 to 684 | 1013, 384, 777 25, 600, 1175 476, 580, 684 | CDMA/EVDO BC0 CDMA/EVDO BC1 CDMA/EVDO BC10 |
| PEAK TO AVERAGE RATIO | 1013 to 777 25 to 1175 476 to 684 | 1013, 384, 777 25, 600, 1175 476, 580, 684 | CDMA/EVDO BC0 CDMA/EVDO BC1 CDMA/EVDO BC10 |
| BAND EDGE | 1013 to 777 25 to 1175 476 to 684 | 1013, 384, 777 25, 600, 1175 476, 580, 684 | CDMA BC0 CDMA BC1 CDMA BC10 |
| CONDUCTED EMISSION | 1013 to 777 25 to 1175 476 to 684 | 1013, 384, 777 25, 600, 1175 476, 580, 684 | CDMA BC0 CDMA BC1 CDMA BC10 |
| EMISSION MASK | 1013 to 777 25 to 1175 476 to 684 | 1013, 384, 777 25, 600, 1175 476, 580, 684 | CDMA BC0 CDMA BC1 CDMA BC10 |
| RADIATED EMISSION | 1013 to 777 25 to 1175 476 to 684 | 1013, 384, 777 25, 600, 1175 476, 580, 684 | CDMA BC0 CDMA BC1 CDMA BC10 |

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5. MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|--|--|
| RF Power Output | +/- 1.10 dB |
| ERP/ EIRP measurement | Vertical Polarization = +/- 4.74dB Horizontal Polarization = +/- 4.62dB |
| 99% Occupied Bandwidth | +/- 5.19 Hz |
| Out of Band Emissions at Antenna Terminals and Band Edge | +/- 0.70 dB |
| Peak to Average Ratio | +/- 0.70 dB |
| Frequency Stability vs. Temperature | +/- 5.19 Hz |
| Frequency Stability vs. Voltage | +/- 5.19 Hz |
| Temperature | +/- 0.65 °C |
| Humidity | +/- 4.6 % |
| DC / AC Power Source | DC= +/- 0.13%, 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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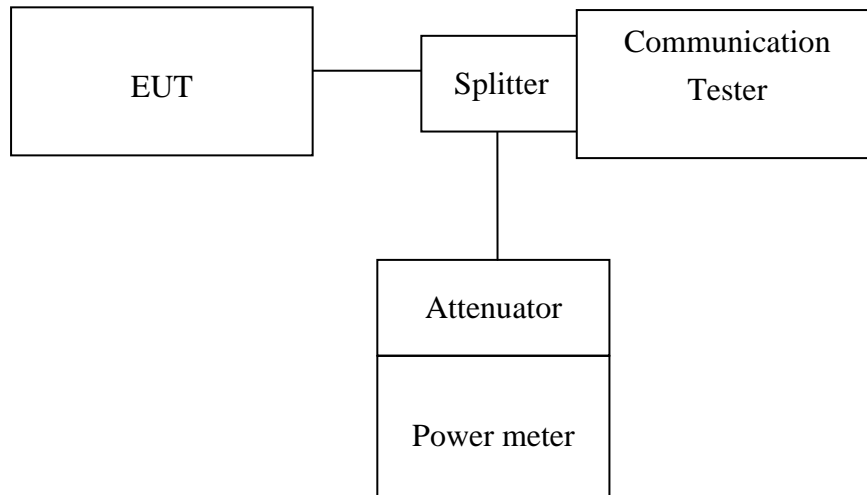
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6. RF CONDUCTED OUTPUT POWER MEASUREMENT

6.1. Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

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

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6.4. Measurement Equipment Used

| Conducted Emission (measured at antenna port) Test Site | | | | | |
|---|---------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Power Meter | Anritsu | ML2495A | 1005007 | 12/20/2014 | 12/19/2015 |
| Power Sensor | Anritsu | MA2411B | 917032 | 12/20/2014 | 12/19/2015 |
| Radio Communication Analyzer | R&S | CMU200 | 102189 | 02/11/2015 | 02/10/2016 |
| Radio Communication Analyzer | Anritsu | MT8820C | 6200995019 | 10/08/2014 | 10/09/2015 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 01/02/2015 | 01/01/2016 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 002 | 01/02/2015 | 01/01/2016 |
| Splitter | Agilent | 11636B | N/A | 01/02/2015 | 01/01/2016 |
| DC Power Supply | Agilent | E3640A | MY52410006 | 11/10/2014 | 11/09/2015 |

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6.5. Measurement Result

RF Conducted Output Power

GPRS/EDGE (GMSK; 8-PSK) Result:

| 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) | 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 | 33.20 | 33.10 | 30.80 | 30.70 | 28.70 | 28.60 | 27.40 | 27.30 |
| | 836.6 | 190 | 33.20 | 33.10 | 30.40 | 30.30 | 28.60 | 28.50 | 27.30 | 27.20 |
| | 848.8 | 251 | 33.00 | 32.90 | 30.40 | 30.20 | 28.30 | 28.20 | 27.00 | 26.90 |
| GPRS 1900 | 1850.2 | 512 | 29.40 | 29.20 | 26.00 | 25.90 | 24.00 | 23.80 | 22.50 | 22.30 |
| | 1880.0 | 661 | 28.90 | 28.70 | 25.50 | 25.30 | 23.10 | 23.00 | 21.50 | 21.40 |
| | 1909.8 | 810 | 28.30 | 28.10 | 25.10 | 25.00 | 22.80 | 22.70 | 21.40 | 21.30 |

| 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) | 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) |
|-----------|--------------------|-----|---|--|--|---|--|---|--|---|
| EDGE 850 | 824.2 | 128 | 30.70 | 27.70 | 27.90 | 24.80 | 26.20 | 22.90 | 25.50 | 21.90 |
| | 836.6 | 190 | 30.50 | 27.50 | 27.70 | 24.60 | 26.00 | 22.70 | 25.00 | 21.70 |
| | 848.8 | 251 | 30.30 | 27.20 | 27.50 | 24.30 | 25.70 | 22.40 | 24.60 | 21.30 |
| EDGE 1900 | 1850.2 | 512 | 28.00 | 24.80 | 24.80 | 21.60 | 23.50 | 20.00 | 22.10 | 18.80 |
| | 1880.0 | 661 | 27.40 | 24.10 | 24.20 | 20.90 | 22.80 | 19.30 | 21.60 | 18.20 |
| | 1909.8 | 810 | 27.10 | 23.80 | 23.80 | 20.60 | 22.40 | 18.90 | 21.30 | 17.80 |

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CDMA2000/EVDO Result:

| EUT Mode | Frequency (MHz) | CH | CDMA | EVDO |
|----------|--------------------|------|---------------------|---------------------|
| | | | Avg. Power (dBm) | Avg. Power (dBm) |
| BC0 | 824.7 | 1013 | 24.01 | 23.89 |
| | 836.52 | 384 | 24.43 | 24.38 |
| | 848.31 | 777 | 24.12 | 24.01 |
| BC1 | 1851.25 | 25 | 24.47 | 24.21 |
| | 1880 | 600 | 24.32 | 24.02 |
| | 1908.75 | 1175 | 24.35 | 24.12 |
| BC10 | 817.9 | 476 | 24.34 | 24.21 |
| | 820.5 | 580 | 24.45 | 24.22 |
| | 823.1 | 684 | 24.25 | 24.17 |

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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 | | WCDMA Band II | | HSDPA Band II | | HSUPA Band II | |
|--------------------|------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Frequency (MHz) | CH | Peak Power (dBm) | Avg. Power (dBm) | Peak Power (dBm) | Avg. Power (dBm) | Peak Power (dBm) | Avg. Power (dBm) |
| 1852.4 | 9262 | 26.70 | 22.84 | 25.93 | 22.45 | 26.41 | 22.72 |
| 1880.0 | 9400 | 26.03 | 22.68 | 26.01 | 22.41 | 26.18 | 22.46 |
| 1907.6 | 9538 | 25.32 | 22.14 | 25.63 | 22.01 | 25.77 | 22.08 |

| EUT Mode | | WCDMA Band V | | HSDPA Band V | | HSUPA Band V | |
|--------------------|------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Frequency (MHz) | CH | Peak Power (dBm) | Avg. Power (dBm) | Peak Power (dBm) | Avg. Power (dBm) | Peak Power (dBm) | Avg. Power (dBm) |
| 826.4 | 4132 | 26.96 | 23.59 | 27.33 | 23.68 | 27.08 | 23.46 |
| 836.6 | 4183 | 27.81 | 24.50 | 28.12 | 24.46 | 27.99 | 24.33 |
| 846.6 | 4233 | 27.03 | 23.78 | 27.62 | 23.90 | 27.51 | 23.65 |

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

Cable loss offset: Low Band: 13.7dB, High Band: 13.9dB

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HSDPA Release 8 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_a | β_d (SF) | β_c/β_d | β_{HS} (Note 1, Note 2) | CM (dB) (Note 3) | MPR (dB) (Note 3) | RMC (Kbps) |
|----------|-------------------|-------------------|-------------------|-------------------|-------------------------------------|---------------------|-------------------------|---------------|
| 1 | 2/15 | 15/15 | 64 | 2/15 | 4/15 | 0.0 | 0.0 | 12.2 |
| 2 | 12/15 (Note 4) | 15/15 (Note 4) | 64 | 12/15 (Note 4) | 24/15 | 1.0 | 0.0 | 12.2 |
| 3 | 15/15 | 8/15 | 64 | 15/8 | 30/15 | 1.5 | 0.5 | 12.2 |
| 4 | 15/15 | 4/15 | 64 | 15/4 | 30/15 | 1.5 | 0.5 | 12.2 |

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

Results:

| Mode | Sub-test | Avg. Power (dBm) Channel | | | Power Class 3 Limita- tion (dBm) | Comments |
|---------------|----------|-----------------------------|-------|-------|-------------------------------------|----------|
| | | 9262 | 9400 | 9538 | | |
| HSDPA (B2) | 1 | 23.06 | 22.93 | 22.33 | 20.3dBm – 25.7dBm | Pass |
| | 2 | 22.77 | 22.57 | 22.01 | 20.3dBm – 25.7dBm | Pass |
| | 3 | 22.60 | 22.45 | 21.84 | 19.8dBm – 25.7dBm | Pass |
| | 4 | 22.65 | 22.49 | 21.90 | 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 | 23.81 | 24.75 | 23.97 | 20.3dBm – 25.7dBm | Pass |
| | 2 | 23.52 | 24.39 | 23.65 | 20.3dBm – 25.7dBm | Pass |
| | 3 | 23.35 | 24.27 | 23.48 | 19.8dBm – 25.7dBm | Pass |
| | 4 | 23.40 | 24.31 | 23.54 | 19.8dBm – 25.7dBm | Pass |

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HSPA (HSDPA & HSUPA) Release 8 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 | β_{ed1} : 47/15 β_{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.

Results:

| Mode | Sub-test | Avg. Power (dBm) | | | Power Class 3 Limita- tion (dBm) | Comments |
|-----------|----------|------------------|-------|-------|-------------------------------------|----------|
| | | Channel | | | | |
| | | 9262 | 9400 | 9538 | | |
| HSUPA(B2) | 1 | 22.80 | 22.61 | 22.05 | 18.8dBm – 25.7dBm | Pass |
| | 2 | 20.86 | 20.69 | 20.09 | 16.8dBm – 25.7dBm | Pass |
| | 3 | 21.77 | 21.67 | 21.08 | 17.8dBm – 25.7dBm | Pass |
| | 4 | 20.91 | 20.75 | 20.17 | 16.8dBm – 25.7dBm | Pass |
| | 5 | 22.66 | 22.44 | 21.94 | 18.8dBm – 25.7dBm | Pass |

| Mode | Sub-test | Avg. Power (dBm) | | | Power Class 3 Limita- tion (dBm) | Comments |
|-----------|----------|------------------|-------|-------|-------------------------------------|----------|
| | | Channel | | | | |
| | | 4132 | 4183 | 4233 | | |
| HSUPA(B5) | 1 | 23.55 | 24.43 | 23.69 | 18.8dBm – 25.7dBm | Pass |
| | 2 | 21.61 | 22.51 | 21.73 | 16.8dBm – 25.7dBm | Pass |
| | 3 | 22.52 | 23.49 | 22.72 | 17.8dBm – 25.7dBm | Pass |
| | 4 | 21.66 | 22.57 | 21.81 | 16.8dBm – 25.7dBm | Pass |
| | 5 | 23.41 | 24.26 | 23.58 | 18.8dBm – 25.7dBm | Pass |

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Minimum Communications Power Measurement

PCS 1900 band

| PCL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--------------------|------|------|------|----|------|------|------|------|------|
| Output power (dBm) | 27.2 | 25.1 | 23.2 | 21 | 19.4 | 17.3 | 15.3 | 13.2 | 12.1 |

| PCL | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|--------------------|------|-----|-----|-----|-----|-----|------|
| Output power (dBm) | 10.1 | 8.4 | 6.3 | 4.5 | 2.3 | 0.4 | -1.2 |

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, IV, 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 23 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. EFFECTIVE RADIATED POWER AND EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT

7.1. Standard Applicable

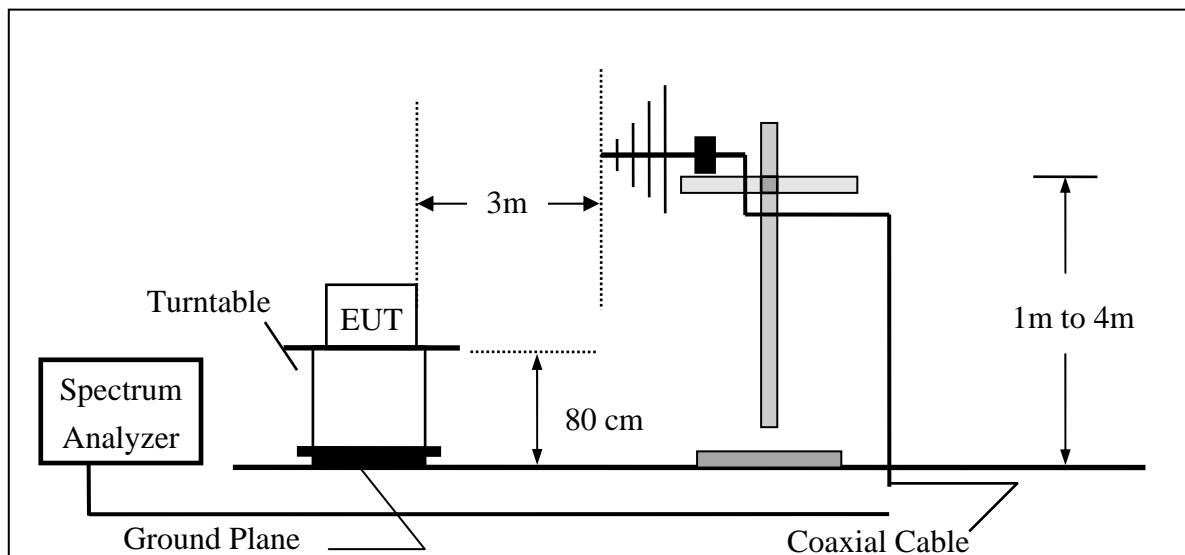
FCC 22.913(a) Mobile station is limited to 7W.

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

Part 90 Subpart (R) Mobile stations are limited to 100W

7.2. Test SET-UP

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



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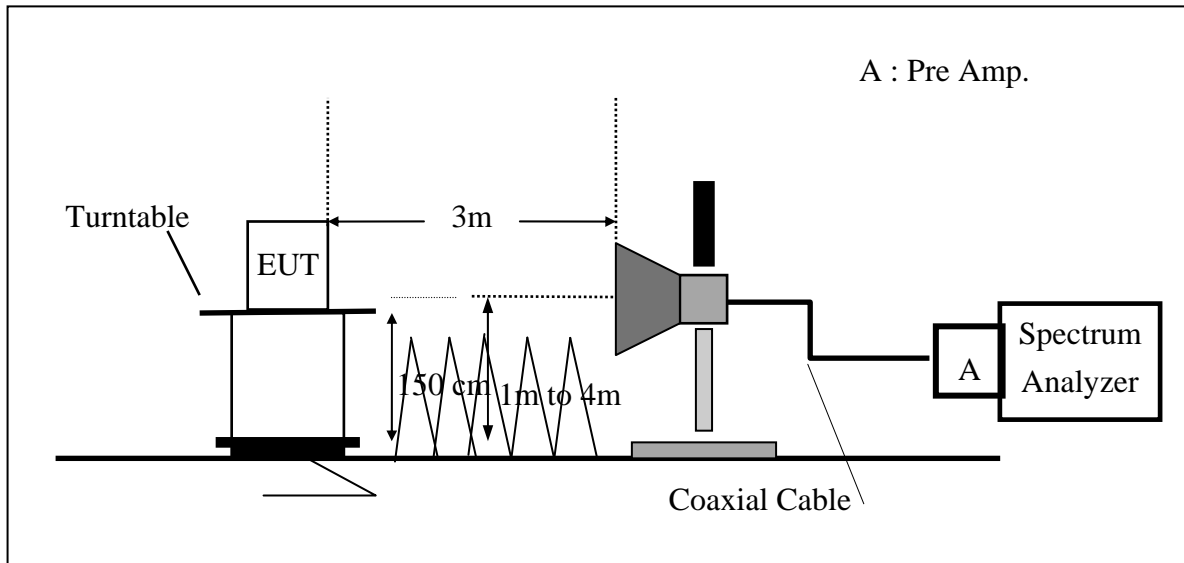
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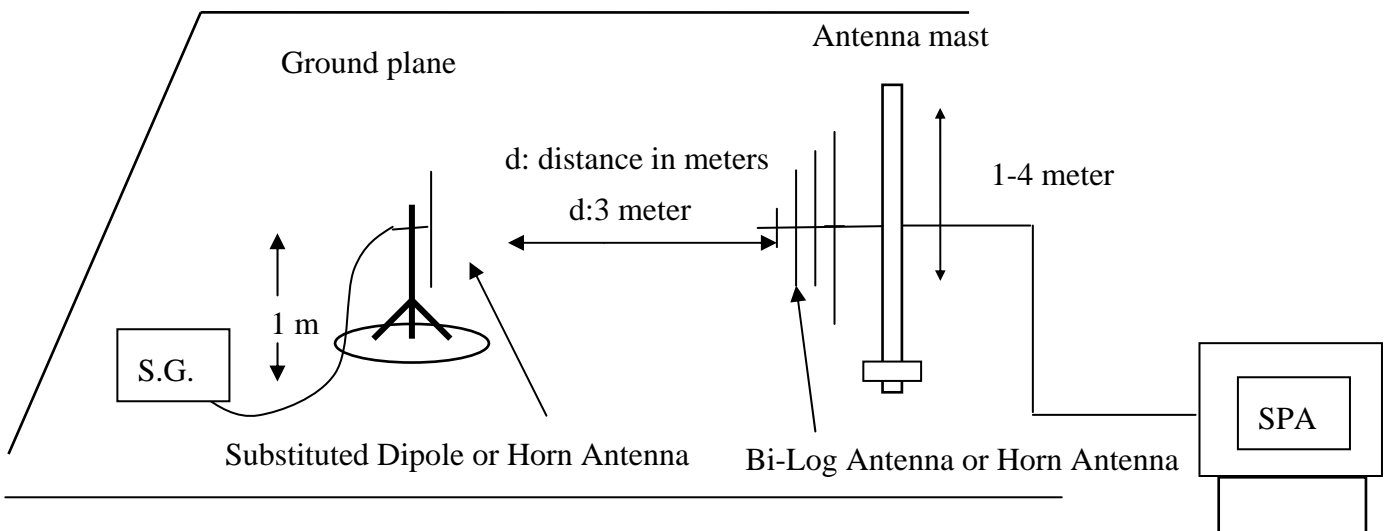
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(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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7.3. Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 971168 D01
2. 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.
3. 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
4. The testing follows the Measurement Procedure of FCC KDB 971168 D01
5. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
6. $ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
7. $ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
8. 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 $VBW > = 3 \times RBW$.
 - (2) KDB 971168 D01 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 1~5% 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 sweep time = $601 \times 10^{-3} = 6s$).

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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.

The proper adjustment due to limitation of spectrum capability is given compensated to spectrum with conversion factor of $10 \cdot \log(TBW/RBW)$, where TBW is the transmission of UE exceeding the maximum BW UE can extends, and RBW is the resolution BW in UE.

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7.4. Measurement Equipment Used

| ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber | | | | | |
|--|-----------------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EXA Spectrum Analyzer | Agilent | N9010A | MY50420195 | 12/22/2014 | 12/21/2015 |
| Bilog Antenna | SCHWAZBECK | VULB9168 | 378 | 12/23/2014 | 12/22/2015 |
| Bilog Antenna | SCHWAZBECK | VULB9160 | 3158 | 10/31/2014 | 10/30/2015 |
| Horn antenna | ETS.LINDGREN | 3117 | 123995 | 05/05/2015 | 05/04/2016 |
| Horn antenna | ETS.LINDGREN | 3117 | 123991 | 12/19/2014 | 12/18/2015 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 184 | 12/25/2014 | 12/24/2015 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 185 | 07/29/2014 | 07/28/2015 |
| Network Analyze | Anritsu | MS4644A | 1216312 | 05/23/2015 | 05/22/2016 |
| Signal Generator | Agilent | E4438C | MY45093613 | 08/06/2014 | 08/05/2015 |
| Pre-Amplifier | Agilent | 8447D | 1937A02834 | 01/02/2015 | 01/01/2016 |
| Pre-Amplifier | Agilent | 8449B | 3008A00578 | 01/02/2015 | 01/01/2016 |
| Pre-Amplifier | EMC Instruments Corp. | EMC184045 | 980135 | 01/02/2015 | 01/01/2016 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 004 | 01/02/2015 | 01/01/2016 |
| Radio Communication Analyzer | R&S | CMU200 | 102189 | 02/11/2015 | 02/10/2016 |
| Radio Communication Analyzer | Anritsu | MT8820C | 6200995019 | 10/08/2014 | 10/09/2015 |
| 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 | 01/02/2015 | 01/01/2016 |
| Low Loss Cable | HUBER+SUHNER | 966_Rx | 3m | 01/02/2015 | 01/01/2016 |
| 3m Site NSA | SGS | 966 chamber | N/A | 07/15/2014 | 07/14/2015 |

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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 |
| GPRS 850 | 824.2 | 128 | V | 21.91 | 3.45 | -2.94 | 22.43 | 38.45 |
| | | | H | 18.59 | 3.45 | -2.94 | 19.11 | 38.45 |
| | 836.6 | 190 | V | 22.01 | 3.46 | -2.97 | 22.50 | 38.45 |
| | | | H | 17.12 | 3.46 | -2.97 | 17.60 | 38.45 |
| | 848.8 | 251 | V | 22.44 | 3.47 | -3.01 | 22.90 | 38.45 |
| | | | H | 19.59 | 3.47 | -3.01 | 20.05 | 38.45 |

| 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 |
| EDGE 850 | 824.2 | 128 | V | 18.93 | 3.45 | -2.94 | 19.45 | 38.45 |
| | | | H | 16.06 | 3.45 | -2.94 | 16.58 | 38.45 |
| | 836.6 | 190 | V | 18.37 | 3.46 | -2.97 | 18.85 | 38.45 |
| | | | H | 13.95 | 3.46 | -2.97 | 14.43 | 38.45 |
| | 848.8 | 251 | V | 18.42 | 3.47 | -3.01 | 18.88 | 38.45 |
| | | | H | 15.82 | 3.47 | -3.01 | 16.28 | 38.45 |

Remark :

- (1) The RBW,VBW of SPA for frequency 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 |
| GPRS 1900 | 1850.2 | 512 | V | 30.01 | 4.84 | -4.49 | 30.37 | 33.01 |
| | | | H | 27.71 | 4.84 | -4.49 | 28.07 | 33.01 |
| | 1880.0 | 661 | V | 30.7 | 4.79 | -4.53 | 30.96 | 33.01 |
| | | | H | 28.63 | 4.79 | -4.53 | 28.90 | 33.01 |
| | 1909.8 | 810 | V | 30.33 | 4.74 | -4.57 | 30.50 | 33.01 |
| | | | H | 27.24 | 4.74 | -4.57 | 27.41 | 33.01 |

| 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 |
| EDGE 1900 | 1850.2 | 512 | V | 28.82 | 4.84 | -4.49 | 29.18 | 33.01 |
| | | | H | 28.03 | 4.84 | -4.49 | 28.39 | 33.01 |
| | 1880.0 | 661 | V | 28.97 | 4.79 | -4.53 | 29.24 | 33.01 |
| | | | H | 27.58 | 4.79 | -4.53 | 27.85 | 33.01 |
| | 1909.8 | 810 | V | 28.92 | 4.74 | -4.57 | 29.10 | 33.01 |
| | | | H | 26.59 | 4.74 | -4.57 | 26.77 | 33.01 |

Remark :

- (1) The RBW,VBW of SPA for frequency 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 | dB | dB | dBm | dBm |
| WCDMA B2 | 1852.4 | 9262 | V | 26.51 | 4.84 | -4.49 | 26.86 | 33.01 |
| | | | H | 23.02 | 4.84 | -4.49 | 23.38 | 33.01 |
| | 1880.0 | 9400 | V | 26.36 | 4.79 | -4.53 | 26.63 | 33.01 |
| | | | H | 23.83 | 4.79 | -4.53 | 24.10 | 33.01 |
| | 1907.6 | 9538 | V | 23.02 | 4.75 | -4.56 | 23.20 | 33.01 |
| | | | H | 23.29 | 4.75 | -4.56 | 23.48 | 33.01 |

| 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 |
| HSDPA B2 | 1852.4 | 9262 | V | 26.83 | 4.84 | -4.49 | 27.18 | 33.01 |
| | | | H | 23.76 | 4.84 | -4.49 | 24.11 | 33.01 |
| | 1880.0 | 9400 | V | 27.06 | 4.79 | -4.53 | 27.33 | 33.01 |
| | | | H | 25.15 | 4.79 | -4.53 | 25.42 | 33.01 |
| | 1907.6 | 9538 | V | 24.59 | 4.75 | -4.56 | 24.77 | 33.01 |
| | | | H | 24.39 | 4.75 | -4.56 | 24.57 | 33.01 |

| 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 |
| HSUPA B2 | 1852.4 | 9262 | V | 26.8 | 4.84 | -4.49 | 27.15 | 33.01 |
| | | | H | 23.31 | 4.84 | -4.49 | 23.66 | 33.01 |
| | 1880.0 | 9400 | V | 27.48 | 4.79 | -4.53 | 27.75 | 33.01 |
| | | | H | 24 | 4.79 | -4.53 | 24.27 | 33.01 |
| | 1907.6 | 9538 | V | 24.53 | 4.75 | -4.56 | 24.71 | 33.01 |
| | | | H | 23.94 | 4.75 | -4.56 | 24.13 | 33.01 |

Remark :

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

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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 |
| WCDMA B5 | 826.4 | 4132 | V | 17.07 | 3.46 | -2.94 | 17.59 | 38.45 |
| | | | H | 12.37 | 3.46 | -2.94 | 12.88 | 38.45 |
| | 836.6 | 4183 | V | 18.03 | 3.46 | -2.97 | 18.52 | 38.45 |
| | | | H | 12.31 | 3.46 | -2.97 | 12.80 | 38.45 |
| | 846.6 | 4233 | V | 16.73 | 3.47 | -3 | 17.19 | 38.45 |
| | | | H | 13.06 | 3.47 | -3 | 13.53 | 38.45 |

| 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 B5 | 826.4 | 4132 | V | 17.61 | 3.46 | -2.94 | 18.12 | 38.45 |
| | | | H | 13.01 | 3.46 | -2.94 | 13.52 | 38.45 |
| | 836.6 | 4183 | V | 18.79 | 3.46 | -2.97 | 19.28 | 38.45 |
| | | | H | 13.44 | 3.46 | -2.98 | 13.93 | 38.45 |
| | 846.6 | 4233 | V | 18.55 | 3.47 | -3 | 19.01 | 38.45 |
| | | | H | 15.15 | 3.47 | -3 | 15.62 | 38.45 |

| 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 B5 | 826.4 | 4132 | V | 17.28 | 3.46 | -2.94 | 17.80 | 38.45 |
| | | | H | 13.46 | 3.46 | -2.95 | 13.97 | 38.45 |
| | 836.6 | 4183 | V | 18.94 | 3.46 | -2.97 | 19.42 | 38.45 |
| | | | H | 13.48 | 3.46 | -2.97 | 13.97 | 38.45 |
| | 846.6 | 4233 | V | 18.88 | 3.47 | -3 | 19.34 | 38.45 |
| | | | H | 14.79 | 3.47 | -3 | 15.26 | 38.45 |

Remark :

- (1) The RBW,VBW of SPA for frequency 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 |
| CDMA BC0 | 824.7 | 1013 | V | 4.67 | 3.46 | -2.94 | 5.18 | 38.45 |
| | | | H | 14.48 | 3.45 | -2.94 | 15.00 | 38.45 |
| | 836.52 | 384 | V | 11.4 | 3.46 | -2.97 | 11.89 | 38.45 |
| | | | H | 15.53 | 3.46 | -2.97 | 16.02 | 38.45 |
| | 848.31 | 777 | V | 9.79 | 3.47 | -3 | 10.25 | 38.45 |
| | | | H | 14.84 | 3.47 | -3.01 | 15.30 | 38.45 |

| 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 |
| EVDO 2000 BC0 | 824.7 | 1013 | V | 4.25 | 3.46 | -2.94 | 4.77 | 38.45 |
| | | | H | 13.67 | 3.46 | -2.94 | 14.18 | 38.45 |
| | 836.52 | 384 | V | 10.45 | 3.46 | -2.97 | 10.94 | 38.45 |
| | | | H | 13.99 | 3.46 | -2.97 | 14.48 | 38.45 |
| | 848.31 | 777 | V | 8.03 | 3.47 | -3 | 8.50 | 38.45 |
| | | | H | 13.87 | 3.47 | -3.01 | 14.33 | 38.45 |

Remark :

- (1) The RBW,VBW of SPA for frequency 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 |
| CDMA BC1 | 1851.25 | 25 | V | 14.11 | 4.84 | -4.49 | 14.47 | 33.00 |
| | | | H | 20.41 | 4.84 | -4.49 | 20.76 | 33.00 |
| | 1880.0 | 600 | V | 17.6 | 4.79 | -4.53 | 17.86 | 33.00 |
| | | | H | 24.91 | 4.79 | -4.53 | 25.17 | 33.00 |
| | 1908.75 | 1175 | V | 15.22 | 4.75 | -4.56 | 15.40 | 33.00 |
| | | | H | 24.52 | 4.75 | -4.56 | 24.70 | 33.00 |

| 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 |
| EVDO 2000 BC1 | 1851.25 | 25 | V | 12.93 | 4.84 | -4.49 | 13.28 | 33.00 |
| | | | H | 20.18 | 4.84 | -4.49 | 20.54 | 33.00 |
| | 1880.0 | 600 | V | 17.07 | 4.79 | -4.53 | 17.34 | 33.00 |
| | | | H | 24.05 | 4.79 | -4.53 | 24.31 | 33.00 |
| | 1908.75 | 1175 | V | 14.86 | 4.75 | -4.56 | 15.04 | 33.00 |
| | | | H | 24.19 | 4.75 | -4.56 | 24.37 | 33.00 |

Remark :

- (1) The RBW,VBW of SPA for frequency 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 |
| CDMA BC10 | 817.9 | 476 | V | 7.74 | 3.45 | -2.92 | 8.27 | 50.00 |
| | | | H | 14.88 | 3.45 | -2.92 | 15.42 | 50.00 |
| | 820.5 | 580 | V | 7.79 | 3.45 | -2.93 | 8.32 | 50.00 |
| | | | H | 14.74 | 3.45 | -2.93 | 15.26 | 50.00 |
| | 823.1 | 684 | V | 6.99 | 3.45 | -2.93 | 7.51 | 50.00 |
| | | | H | 14.2 | 3.45 | -2.93 | 14.72 | 50.00 |

| 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 |
| EVDO 2000 BC10 | 817.9 | 476 | V | 6.66 | 3.45 | -2.92 | 7.2 | 50.00 |
| | | | H | 14.19 | 3.45 | -2.92 | 14.73 | 50.00 |
| | 820.5 | 580 | V | 7.79 | 3.45 | -2.93 | 8.32 | 50.00 |
| | | | H | 13.77 | 3.45 | -2.93 | 14.29 | 50.00 |
| | 823.1 | 684 | V | 5.68 | 3.45 | -2.93 | 6.19 | 50.00 |
| | | | H | 13.41 | 3.45 | -2.93 | 13.93 | 50.00 |

Remark :

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

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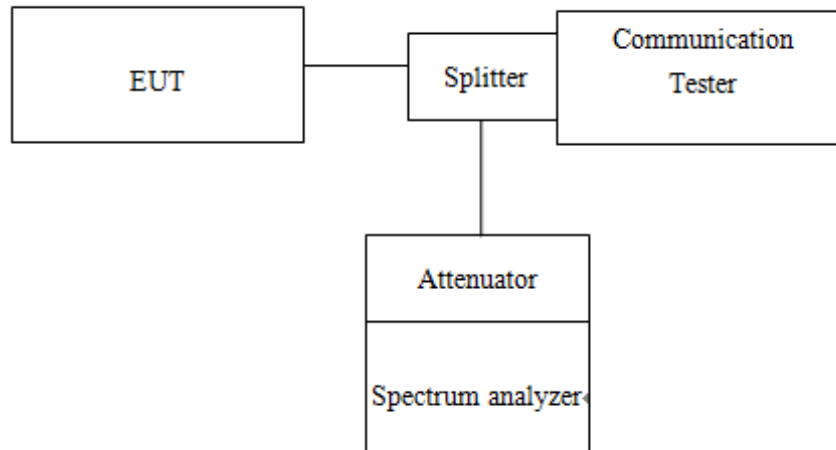
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8. OCCUPIED BANDWIDTH MEASUREMENT

8.1. Standard Applicable

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

8.2. Test Set-up



8.3. Measurement Procedure

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), 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 $\text{span} > 2 * \text{Signal BW}$, set % Power = 99%.

NOTE: For the plot of bandwidth measurement, the marker of the 99% bandwidth is diamond-shape while the marker of the 26dB BW is arrow-mark

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8.4. Measurement Equipment Used

| Conducted Emission (measured at antenna port) Test Site | | | | | |
|---|---------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 01/29/2015 | 01/28/2016 |
| Radio Communication Analyzer | R&S | CMU200 | 102189 | 02/11/2015 | 02/10/2016 |
| Radio Communication Analyzer | Anritsu | MT8820C | 6200995019 | 10/08/2014 | 10/09/2015 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 01/02/2015 | 01/01/2016 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 002 | 01/02/2015 | 01/01/2016 |
| Splitter | Agilent | 11636B | N/A | 01/02/2015 | 01/01/2016 |
| DC Power Supply | Agilent | E3640A | MY52410006 | 11/10/2014 | 11/09/2015 |

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8.5. Measurement Result

99% Bandwidth

| Frequency (MHz) | CH | 99% Bandwidth (kHz) | |
|--------------------|-----|------------------------|----------------|
| | | GPRS 850 | EDGE 850 |
| 824.20 | 128 | 246.039 | 240.259 |
| 836.60 | 190 | 242.491 | 230.957 |
| 848.80 | 251 | 246.496 | 250.426 |

| Frequency (MHz) | CH | 99% Bandwidth (kHz) | |
|--------------------|-----|------------------------|----------------|
| | | GPRS 1900 | EDGE 1900 |
| 1850.20 | 512 | 242.553 | 249.671 |
| 1880.00 | 661 | 242.787 | 253.300 |
| 1909.80 | 810 | 242.942 | 243.970 |

| Frequency (MHz) | CH | 99% Bandwidth (MHz) | | |
|--------------------|------|------------------------|---------------|---------------|
| | | WCDMA II | HSDPA II | HSUPA II |
| 1850.20 | 9262 | 4.1307 | 4.1374 | 4.1263 |
| 1880.00 | 9400 | 4.1494 | 4.1637 | 4.1311 |
| 1909.80 | 9538 | 4.1550 | 4.1397 | 4.1548 |

| Frequency (MHz) | CH | 99% Bandwidth (MHz) | | |
|--------------------|------|------------------------|---------------|---------------|
| | | WCDMA V | HSDPA V | HSUPA V |
| 826.40 | 4132 | 4.1807 | 4.1710 | 4.1634 |
| 836.60 | 4183 | 4.1751 | 4.1662 | 4.1649 |
| 846.60 | 4233 | 4.1591 | 4.1580 | 4.1767 |

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| Frequency (MHz) | CH | 99% Bandwidth (MHz) | |
|--------------------|------|------------------------|---------------|
| | | CDMA BC0 | EVDO BC0 |
| 824.7 | 1013 | 1.2673 | 1.2634 |
| 836.52 | 384 | 1.2701 | 1.2650 |
| 848.31 | 777 | 1.2678 | 1.2673 |

| Frequency (MHz) | CH | 99% Bandwidth (MHz) | |
|--------------------|------|------------------------|---------------|
| | | CDMA BC1 | EVDO BC1 |
| 1851.25 | 25 | 1.2657 | 1.2706 |
| 1880 | 600 | 1.2663 | 1.2691 |
| 1908.75 | 1175 | 1.2692 | 1.2761 |

| Frequency (MHz) | CH | 99% Bandwidth (MHz) | |
|--------------------|-----|------------------------|---------------|
| | | CDMA BC10 | EVDO BC10 |
| 817.9 | 476 | 1.2640 | 1.2673 |
| 820.5 | 580 | 1.2604 | 1.2651 |
| 823.1 | 684 | 1.2676 | 1.2658 |

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26dB Bandwidth

| Frequency (MHz) | CH | 26dB Bandwidth (kHz) | |
|--------------------|-----|-------------------------|----------------|
| | | GPRS 850 | EDGE 850 |
| 824.20 | 128 | 319.218 | 307.726 |
| 836.60 | 190 | 323.458 | 301.282 |
| 848.80 | 251 | 318.974 | 316.718 |

| Frequency (MHz) | CH | 26dB Bandwidth (kHz) | |
|--------------------|-----|-------------------------|----------------|
| | | GPRS 1900 | EDGE 1900 |
| 1850.20 | 512 | 318.579 | 321.936 |
| 1880.00 | 661 | 319.628 | 314.778 |
| 1909.80 | 810 | 317.041 | 305.303 |

| Frequency (MHz) | CH | 26dB Bandwidth (MHz) | | |
|--------------------|------|-------------------------|--------------|--------------|
| | | WCDMA II | HSDPA II | HSUPA II |
| 1850.20 | 9262 | 4.634 | 4.647 | 4.635 |
| 1880.00 | 9400 | 4.620 | 4.642 | 4.667 |
| 1909.80 | 9538 | 4.635 | 4.624 | 4.630 |

| Frequency (MHz) | CH | 26dB Bandwidth (MHz) | | |
|--------------------|------|-------------------------|--------------|--------------|
| | | WCDMA V | HSDPA V | HSUPA V |
| 826.40 | 4132 | 4.736 | 4.726 | 4.706 |
| 836.60 | 4183 | 4.722 | 4.698 | 4.717 |
| 846.60 | 4233 | 4.701 | 4.724 | 4.713 |

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| Frequency (MHz) | CH | 26dB Bandwidth (MHz) | |
|--------------------|------|-------------------------|--------------|
| | | CDMA BC0 | EVDO BC0 |
| 824.7 | 1013 | 1.410 | 1.401 |
| 836.52 | 384 | 1.415 | 1.417 |
| 848.31 | 777 | 1.407 | 1.418 |

| Frequency (MHz) | CH | 26dB Bandwidth (MHz) | |
|--------------------|------|-------------------------|--------------|
| | | CDMA BC1 | EVDO BC1 |
| 1851.25 | 25 | 1.420 | 1.417 |
| 1880 | 600 | 1.421 | 1.414 |
| 1908.75 | 1175 | 1.420 | 1.425 |

| Frequency (MHz) | CH | 26dB Bandwidth (MHz) | |
|--------------------|-----|-------------------------|--------------|
| | | CDMA BC10 | EVDO BC10 |
| 817.9 | 476 | 1.415 | 1.409 |
| 820.5 | 580 | 1.409 | 1.402 |
| 823.1 | 684 | 1.411 | 1.410 |

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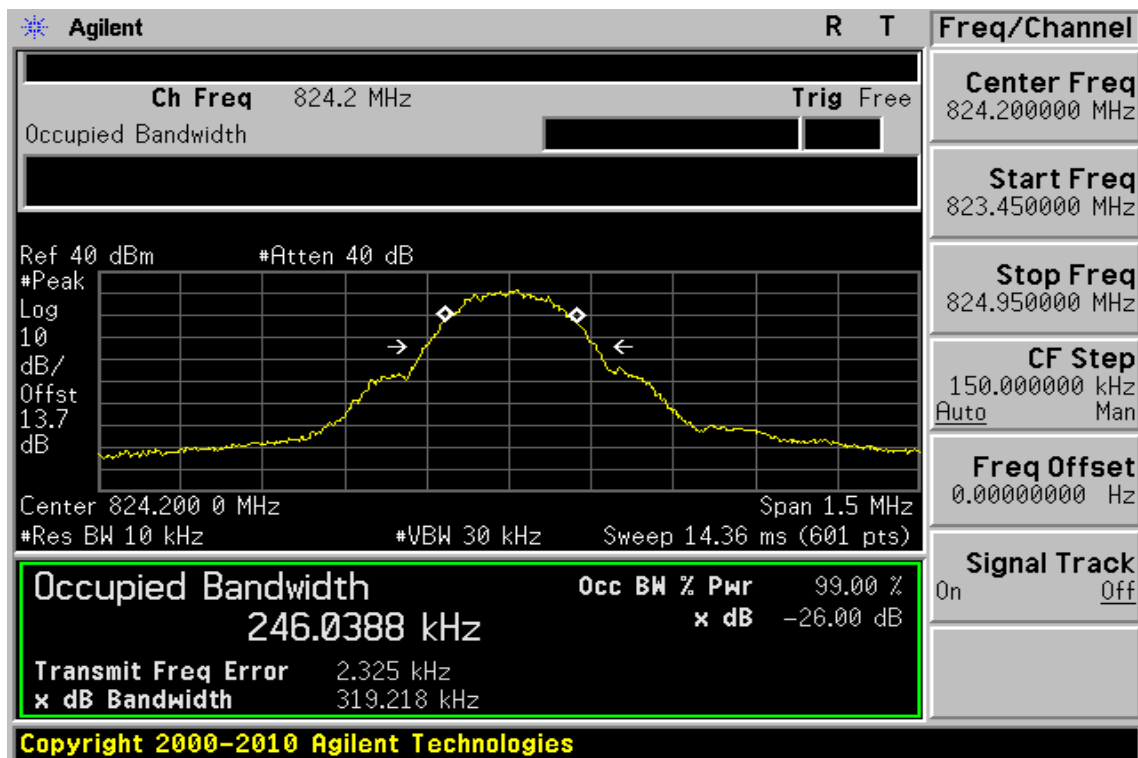
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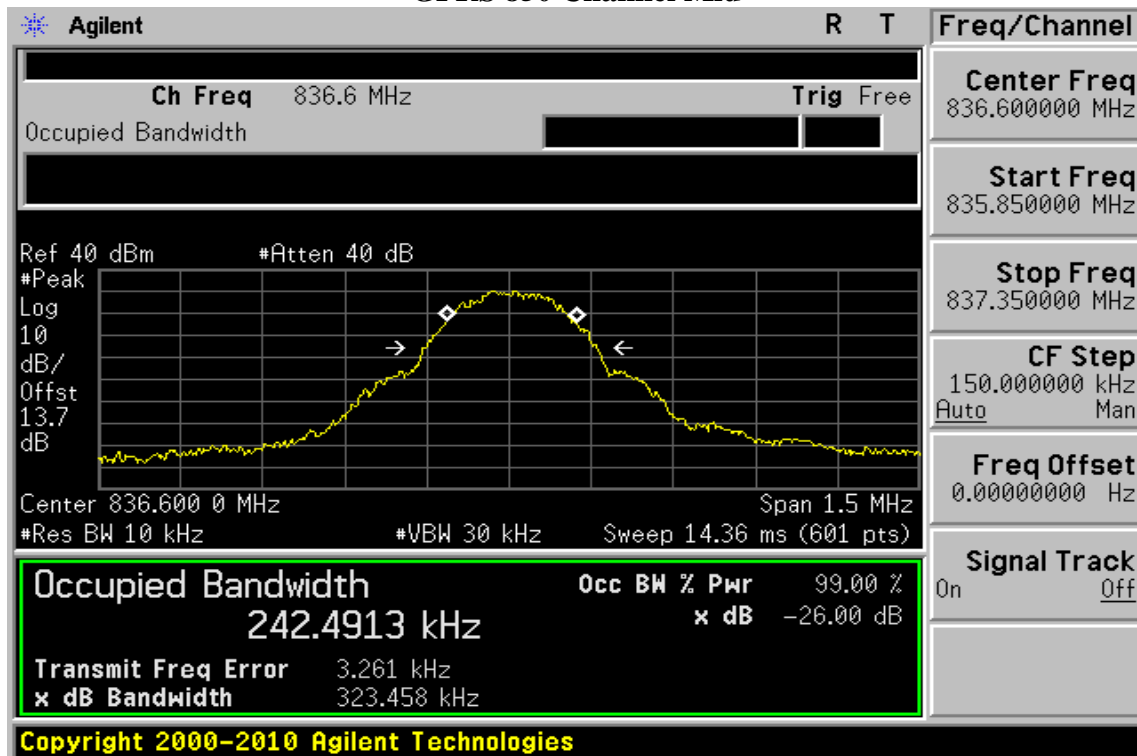
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99% & 26dB Bandwidth Test Data

GPRS 850 Channel Low



GPRS 850 Channel Mid



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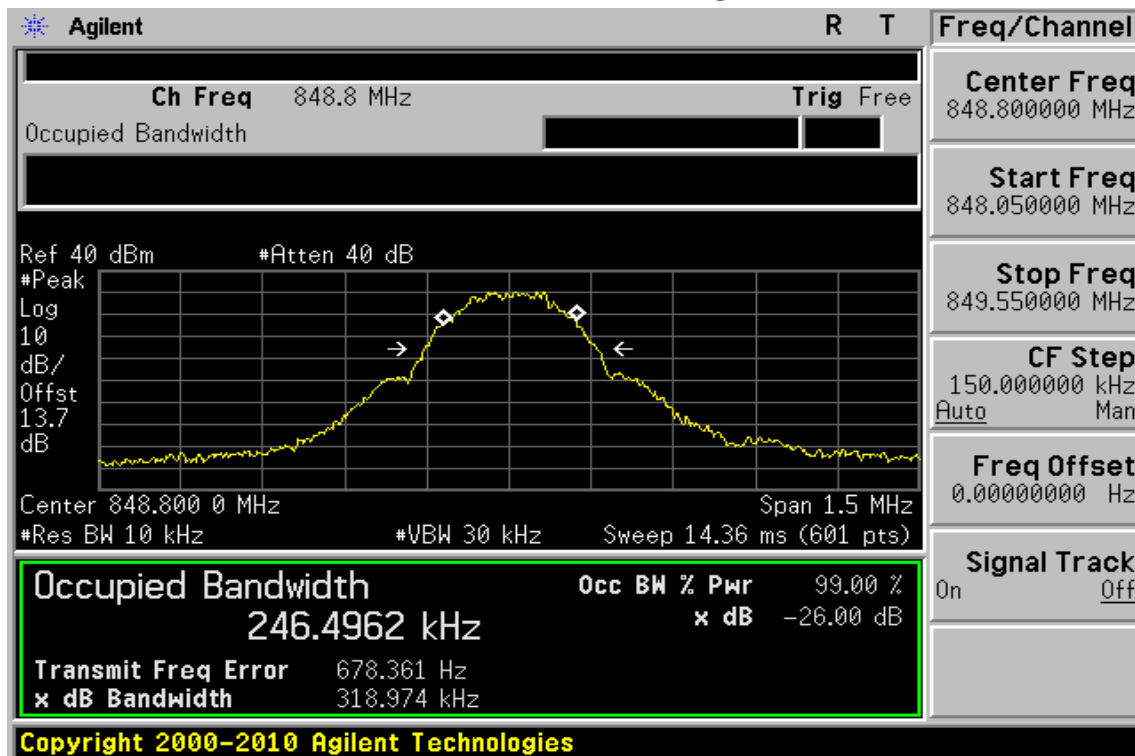
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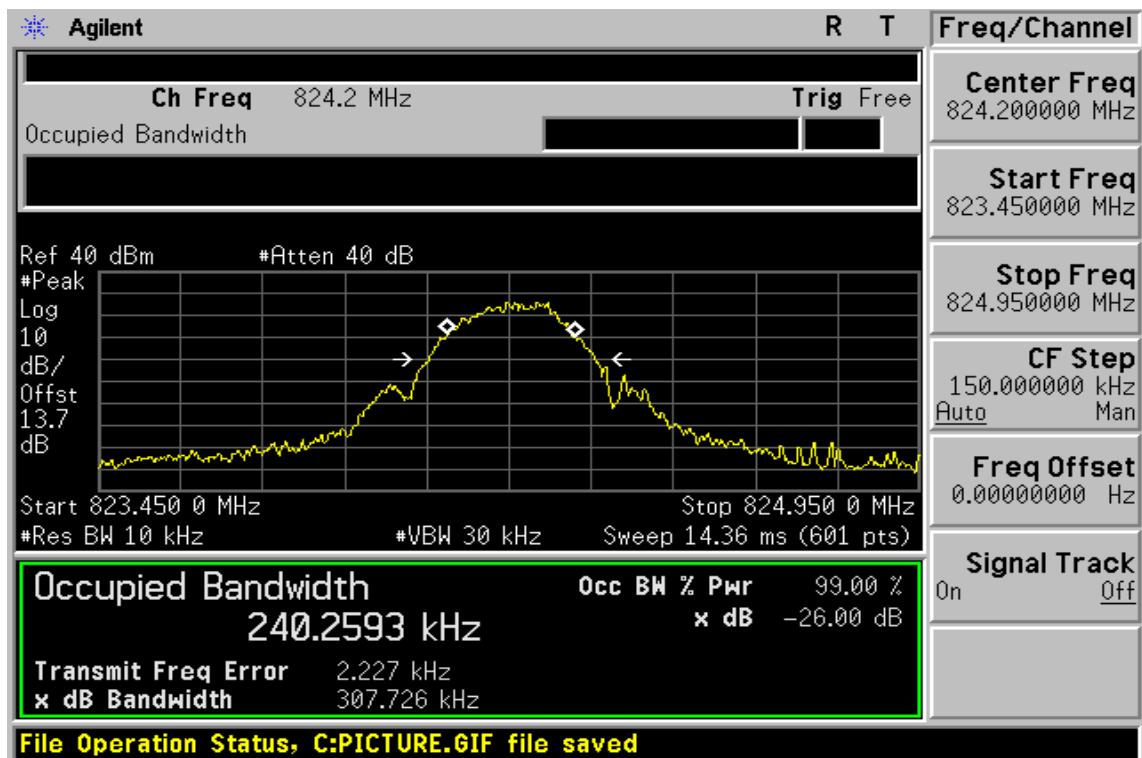
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GPRS 850 Channel High



EDGE 850 Channel Low



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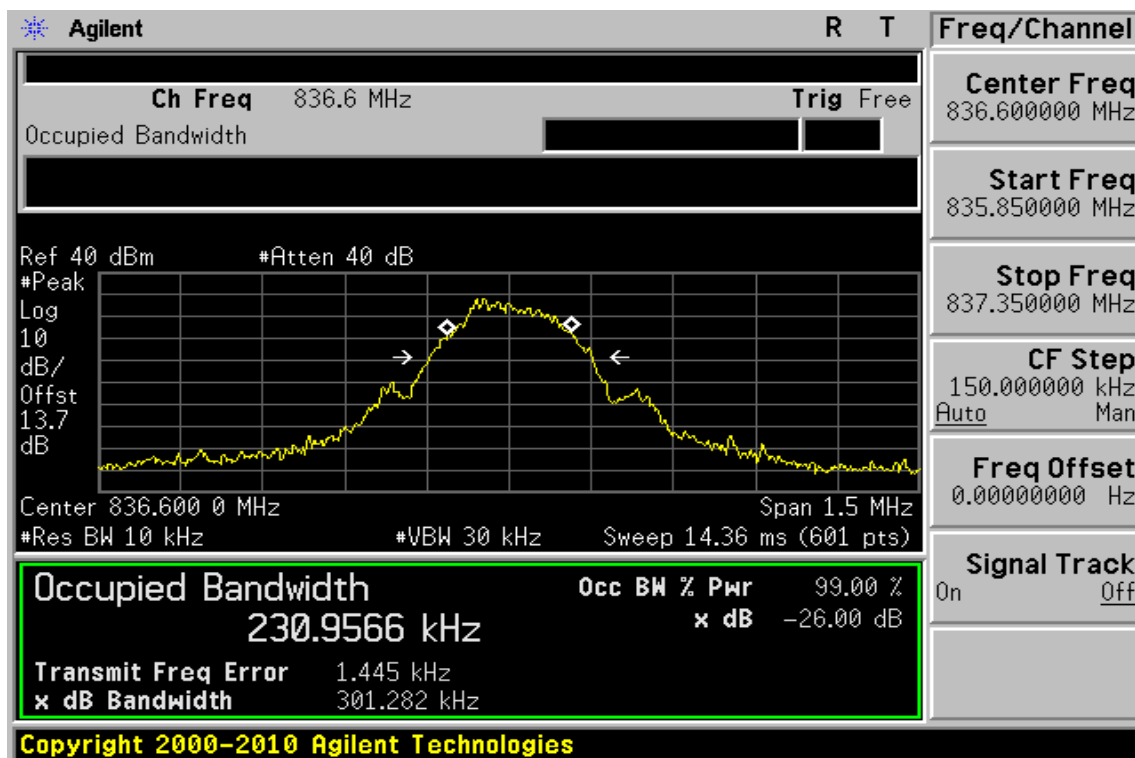
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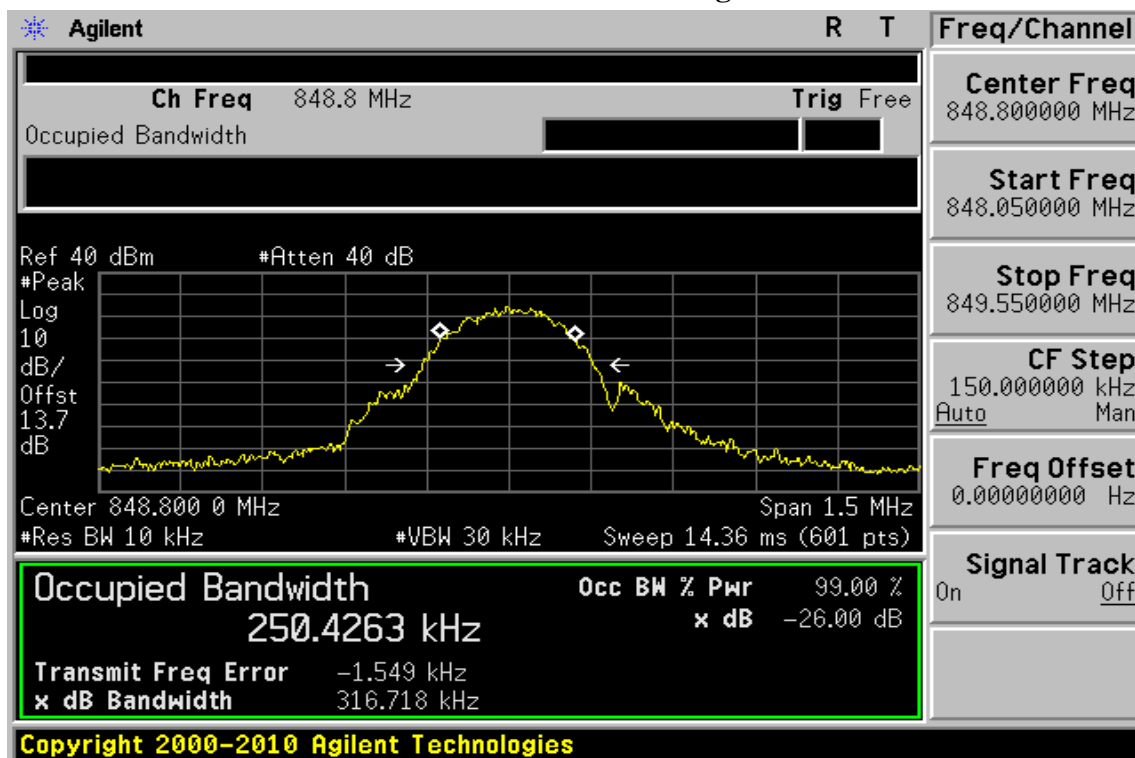
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EDGE 850 Channel Mid



EDGE 850 Channel High



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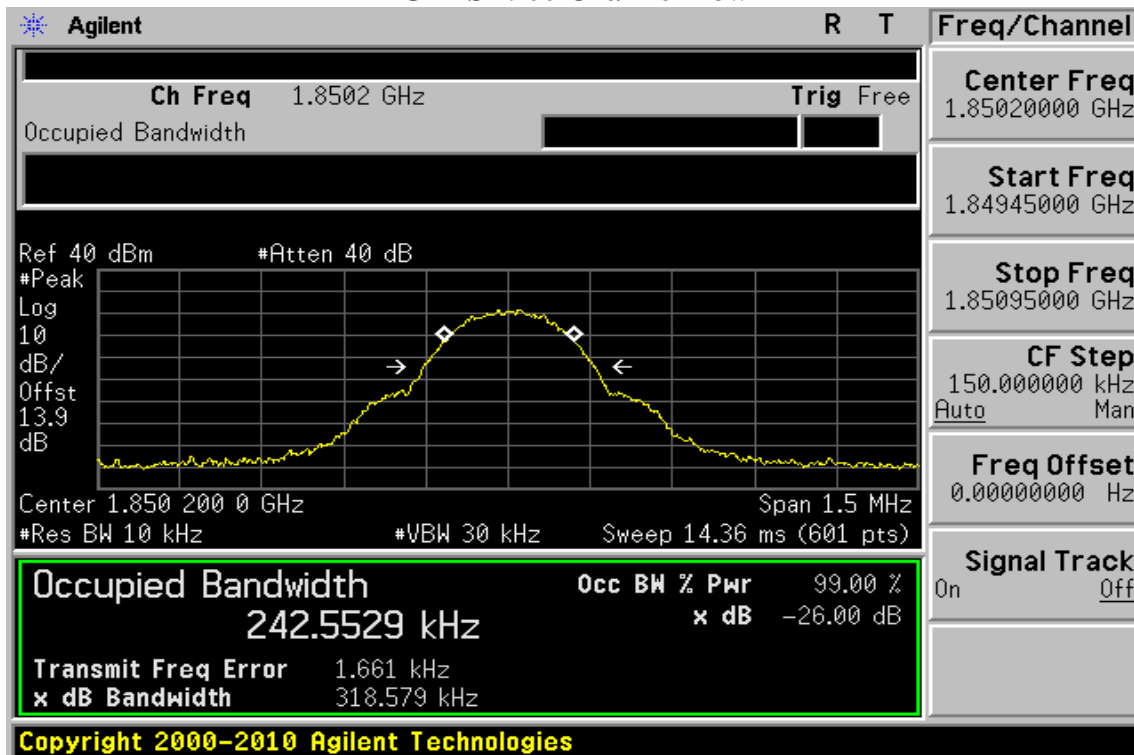
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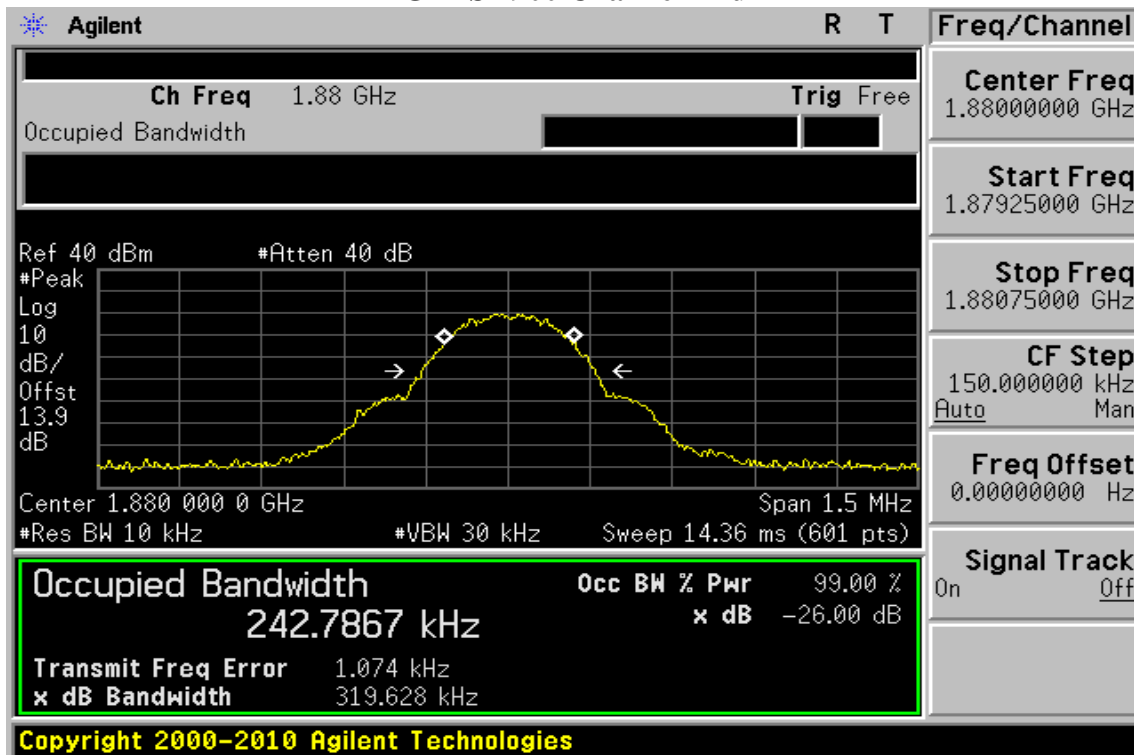
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GPRS 1900 Channel Low



GPRS 1900 Channel Mid



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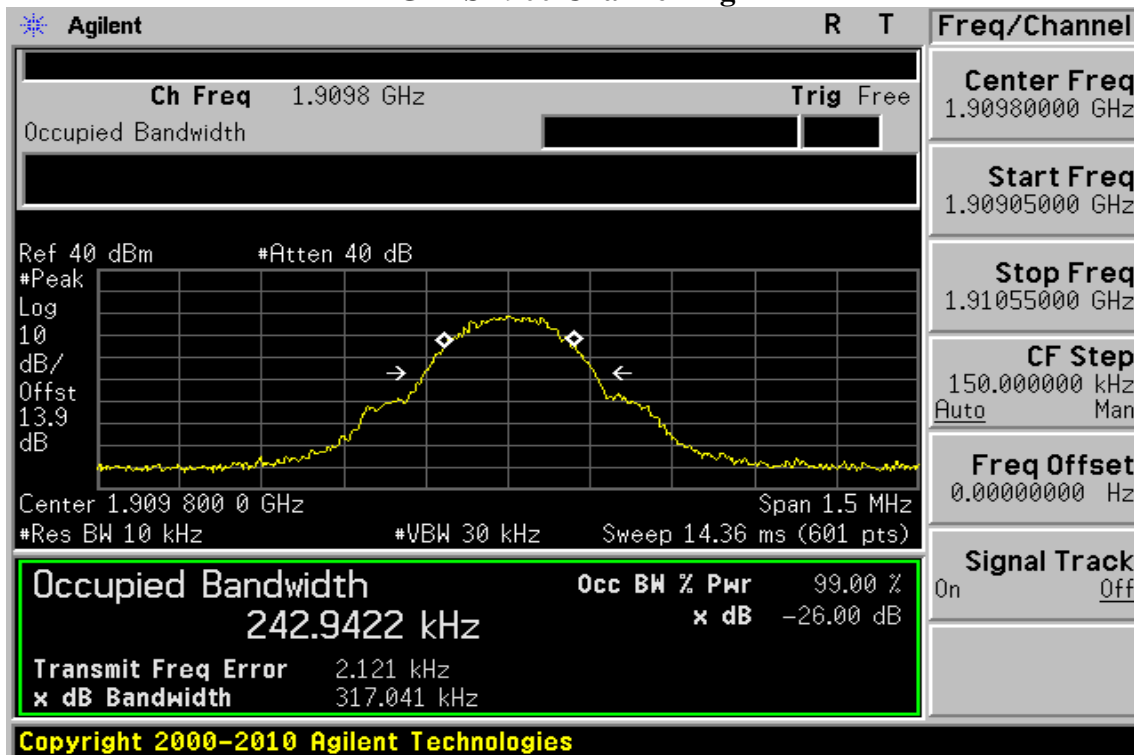
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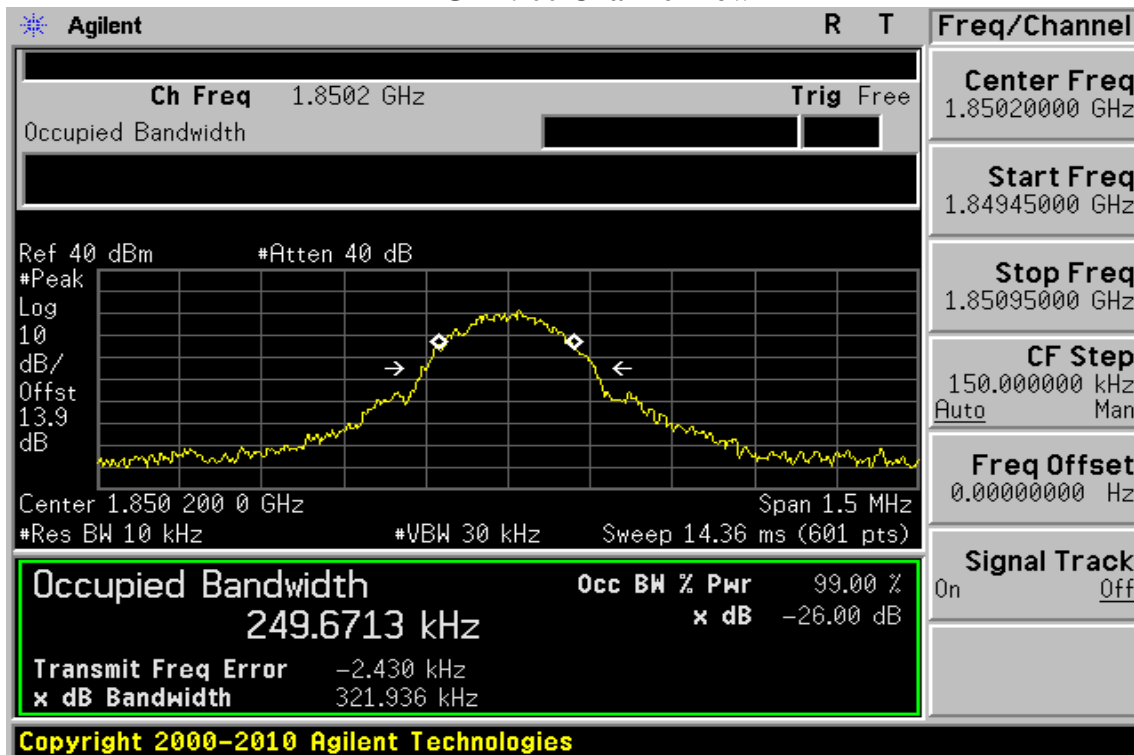
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GPRS 1900 Channel High



EDGE 1900 Channel Low



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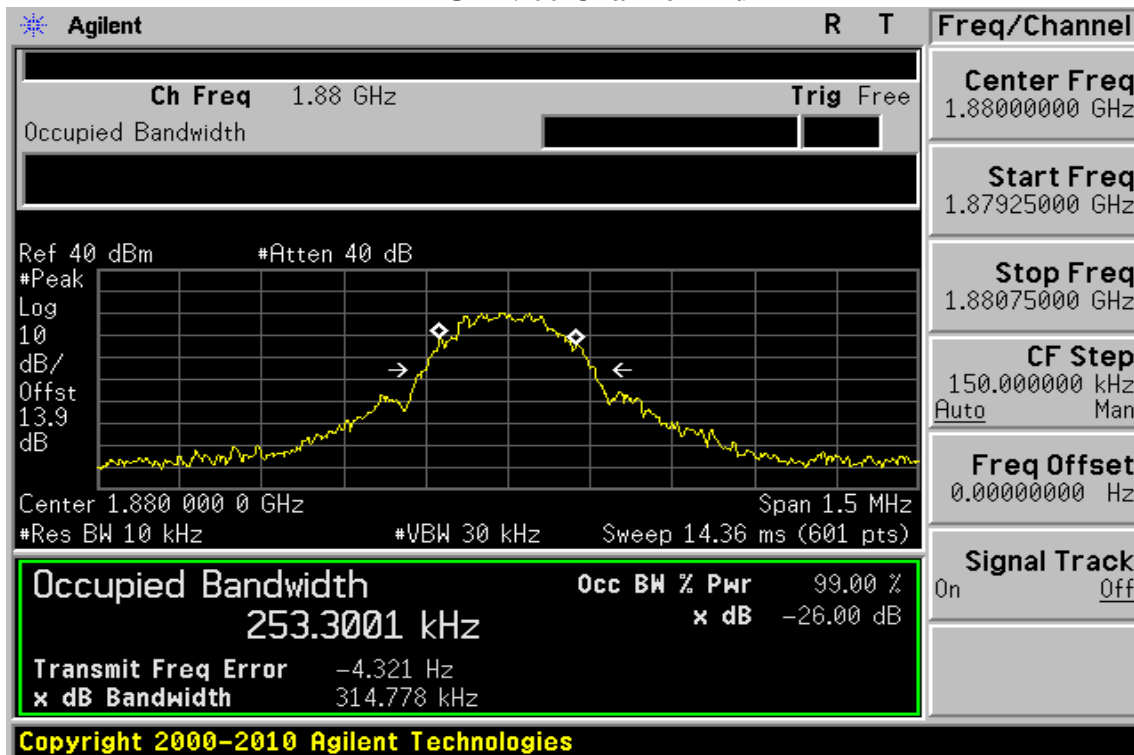
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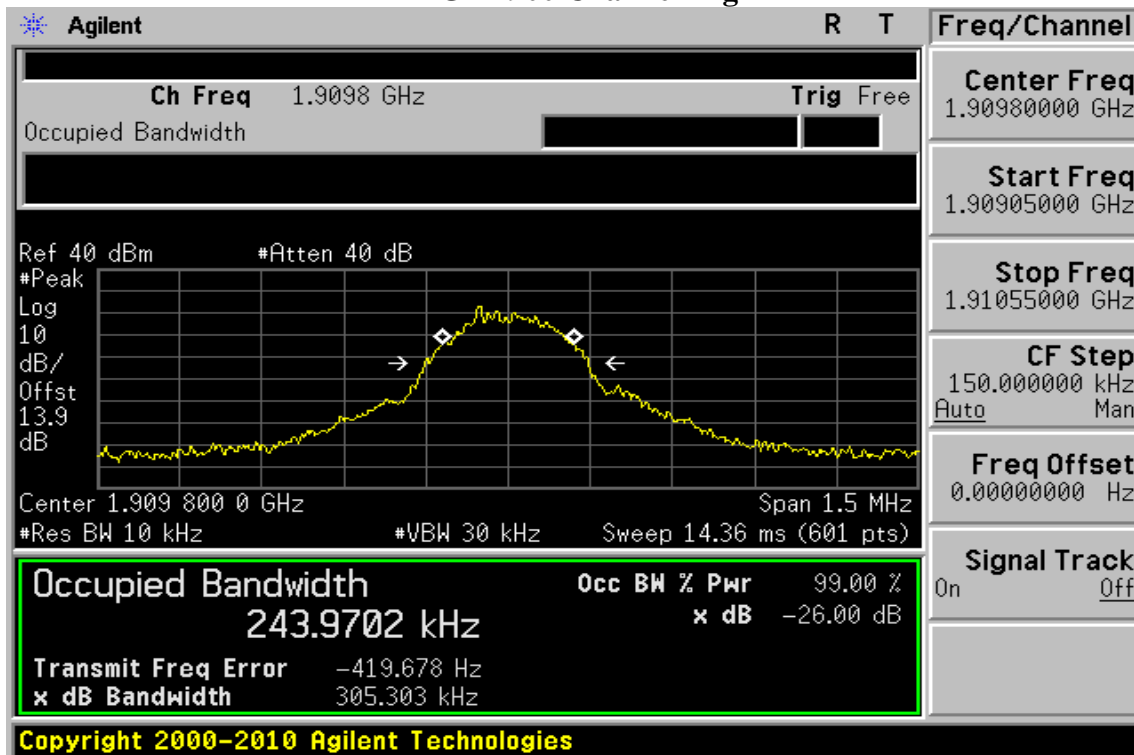
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EDGE 1900 Channel Mid



EDGE 1900 Channel High



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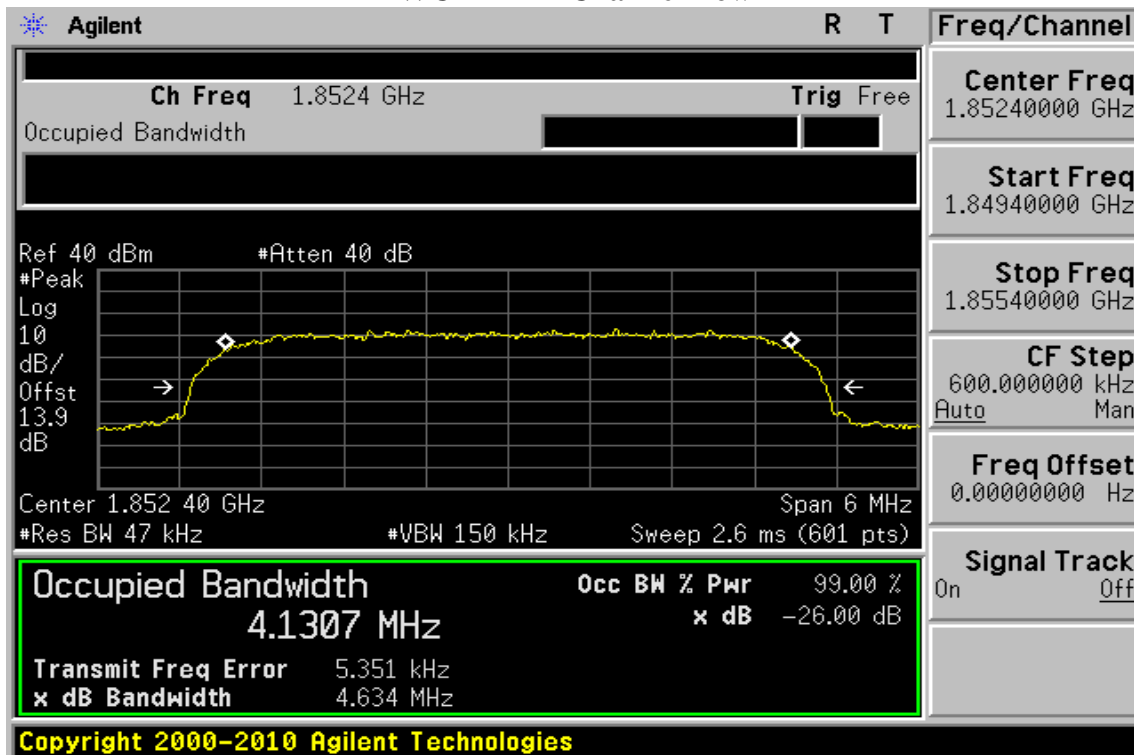
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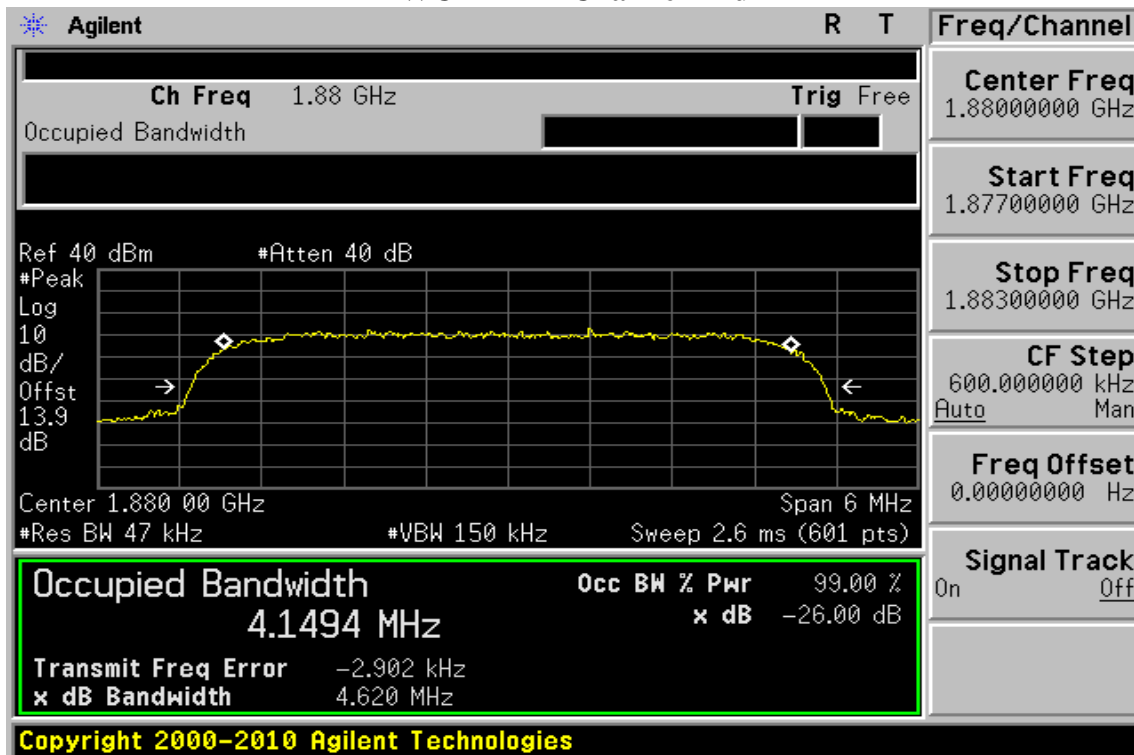
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WCDMA II Channel Low



WCDMA II Channel Mid



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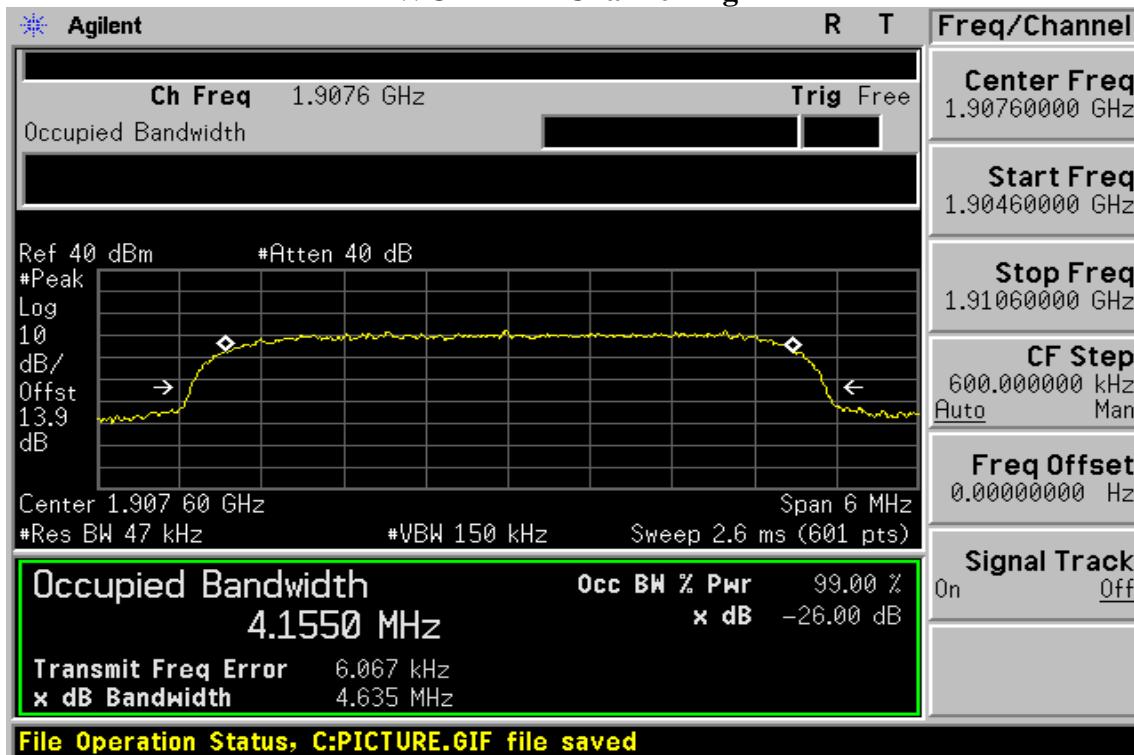
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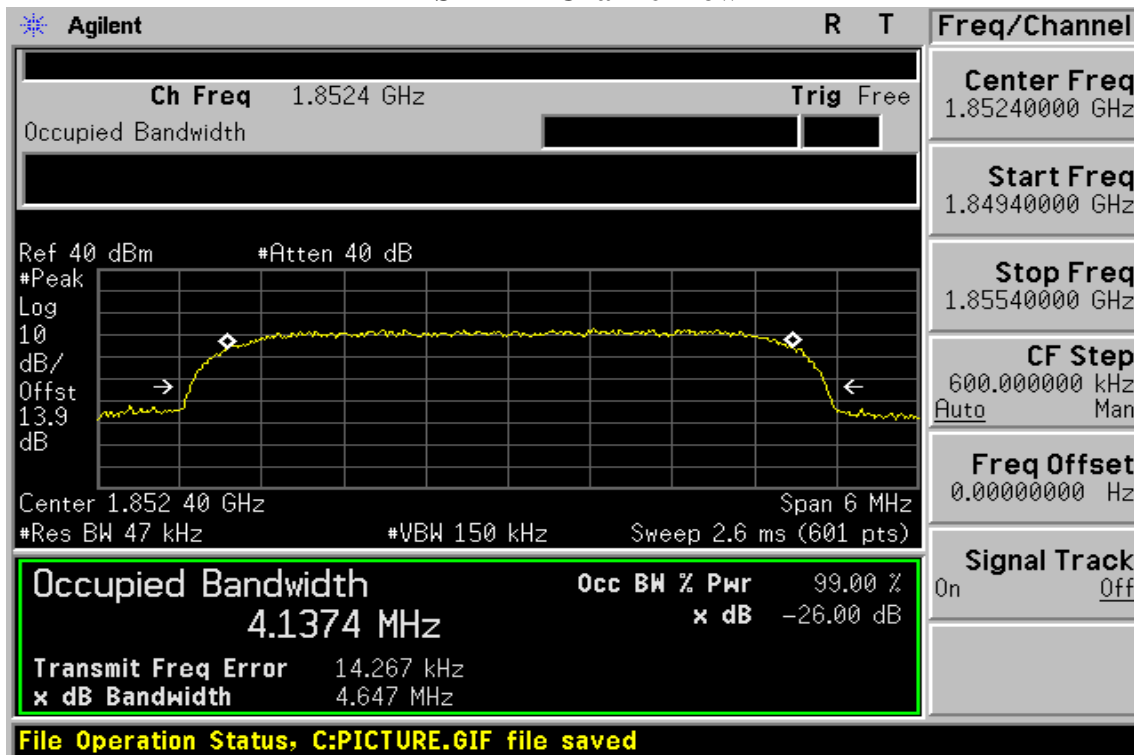
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WCDMA II Channel High



HSDPA II Channel Low



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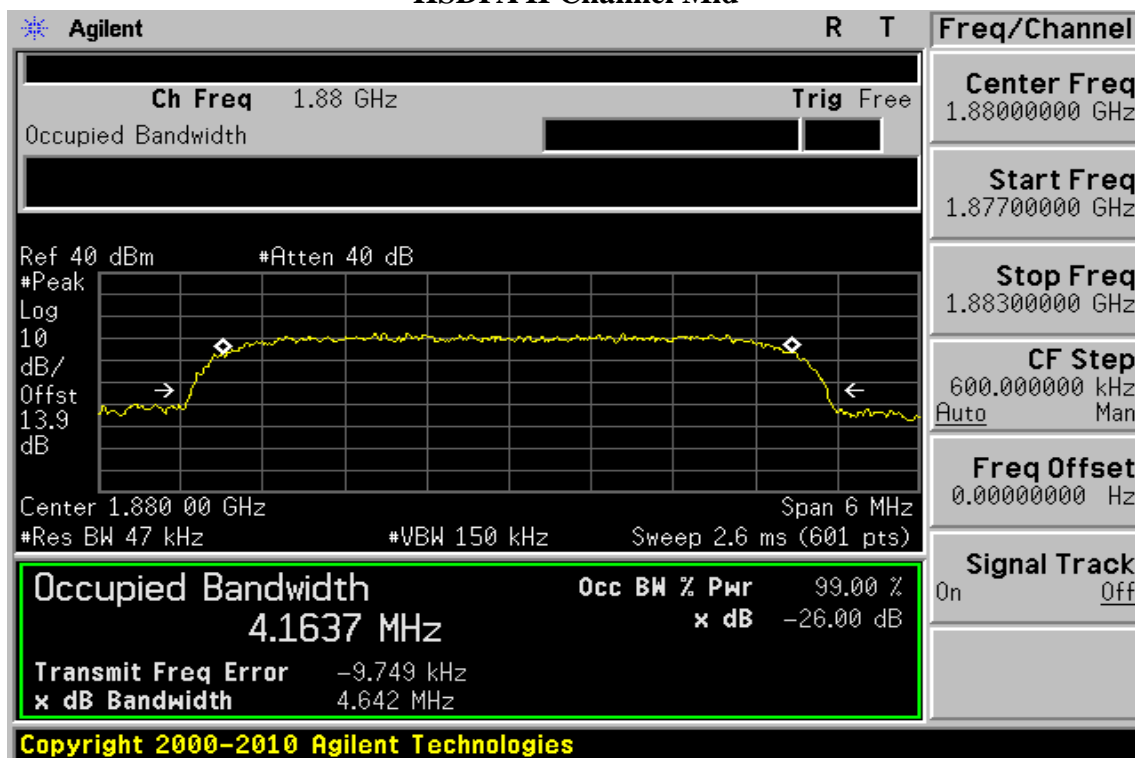
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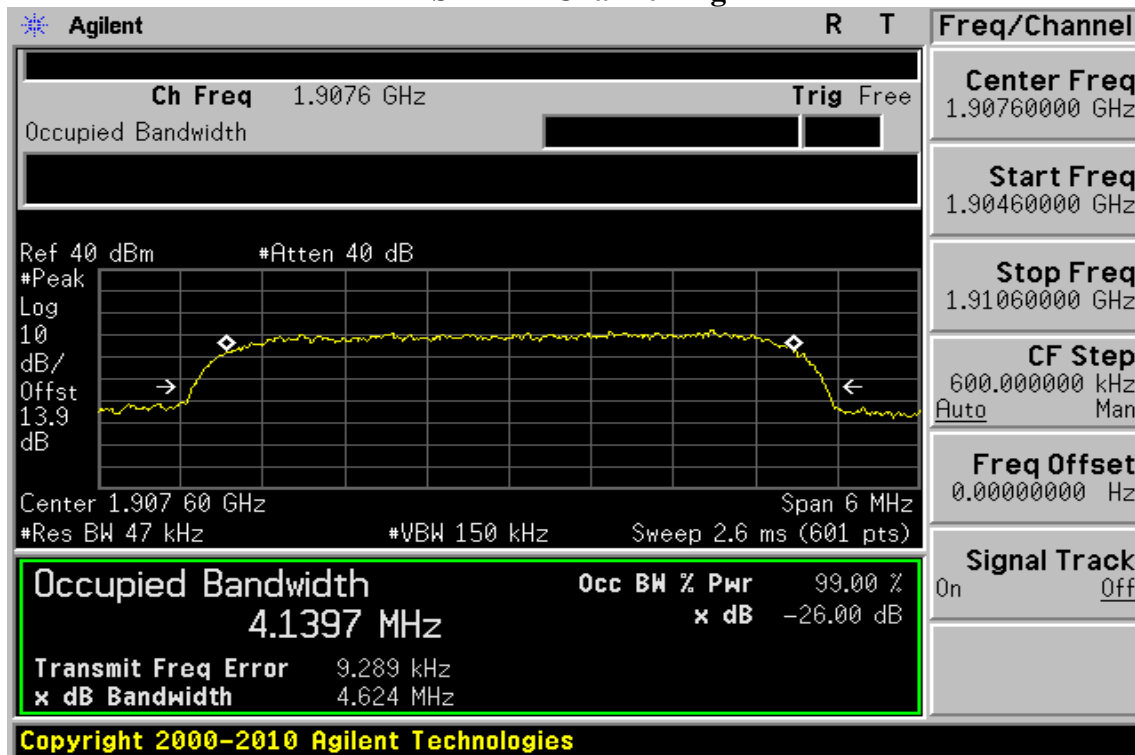
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HSDPA II Channel Mid



HSDPA II Channel High



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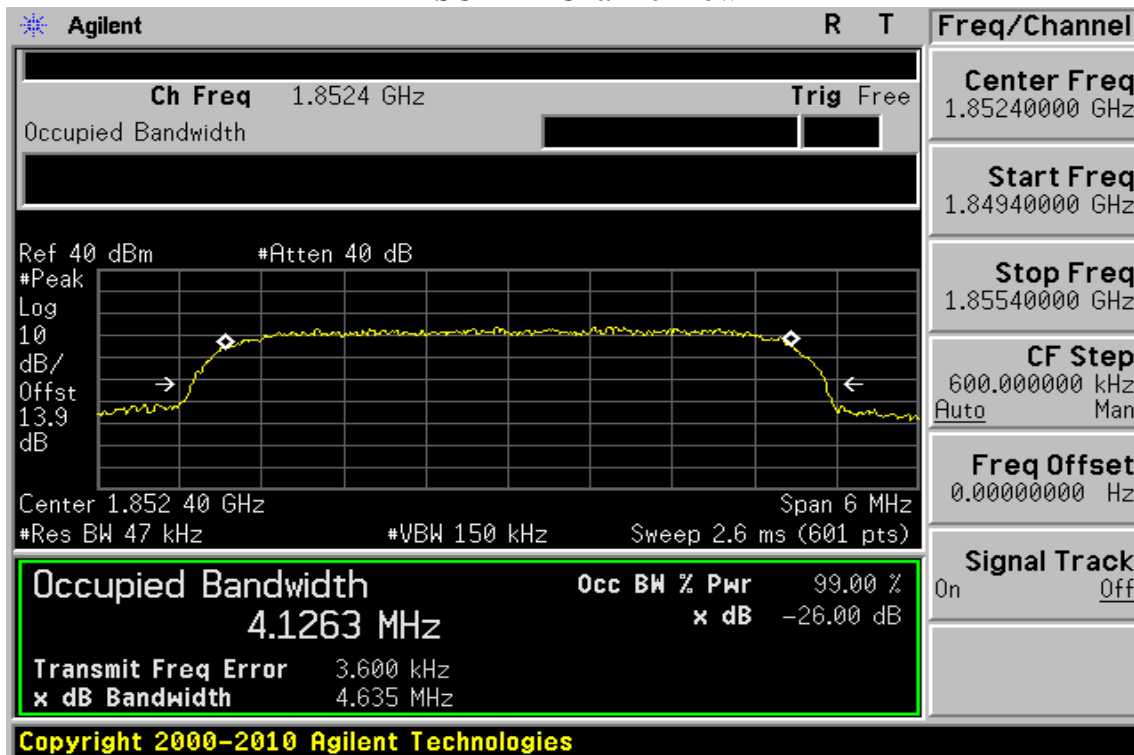
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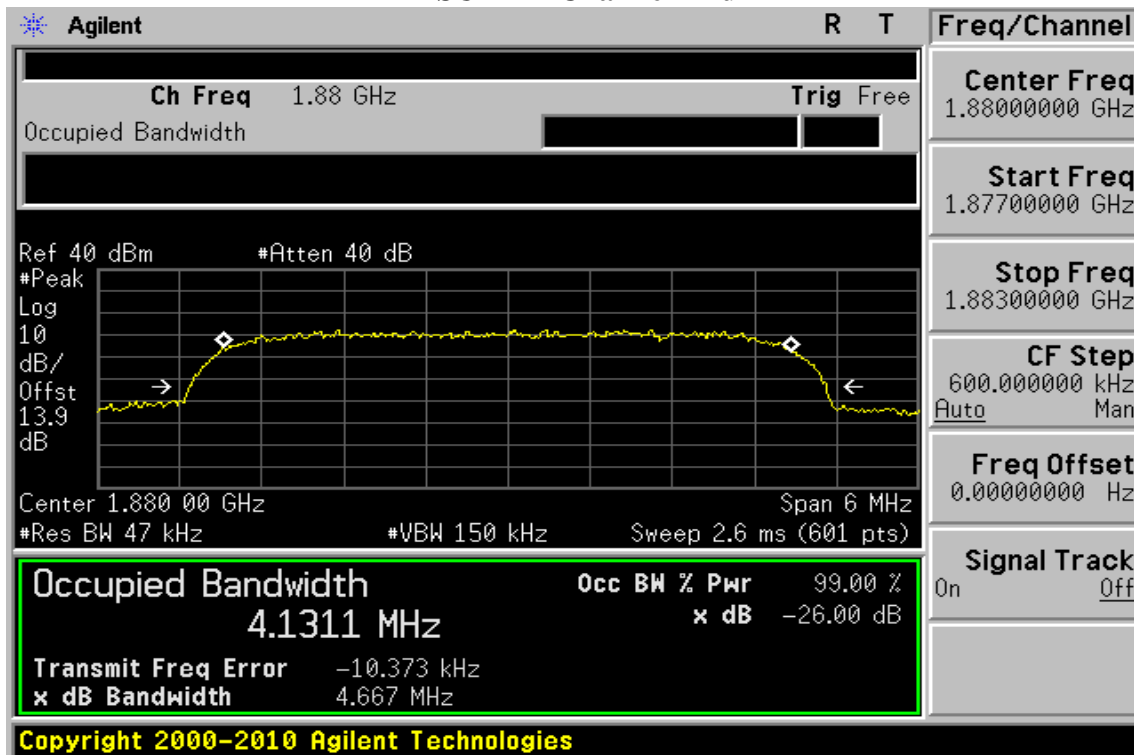
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HSUPA II Channel Low



HSUPA II Channel Mid



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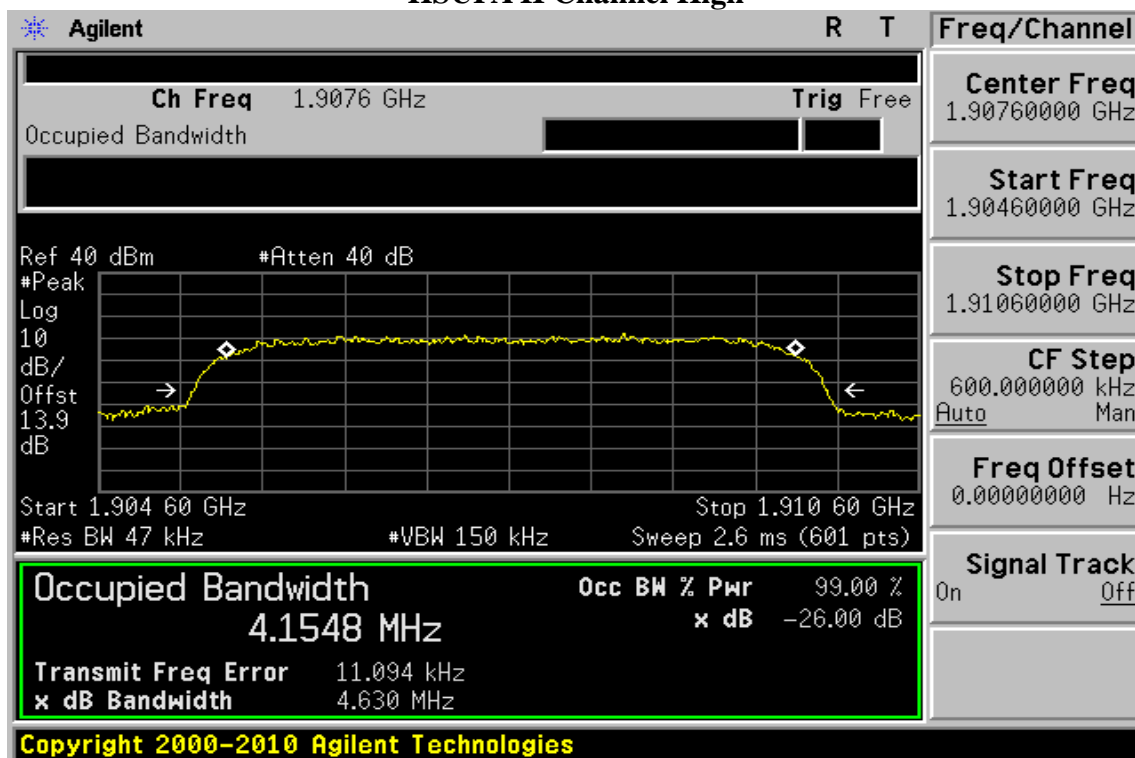
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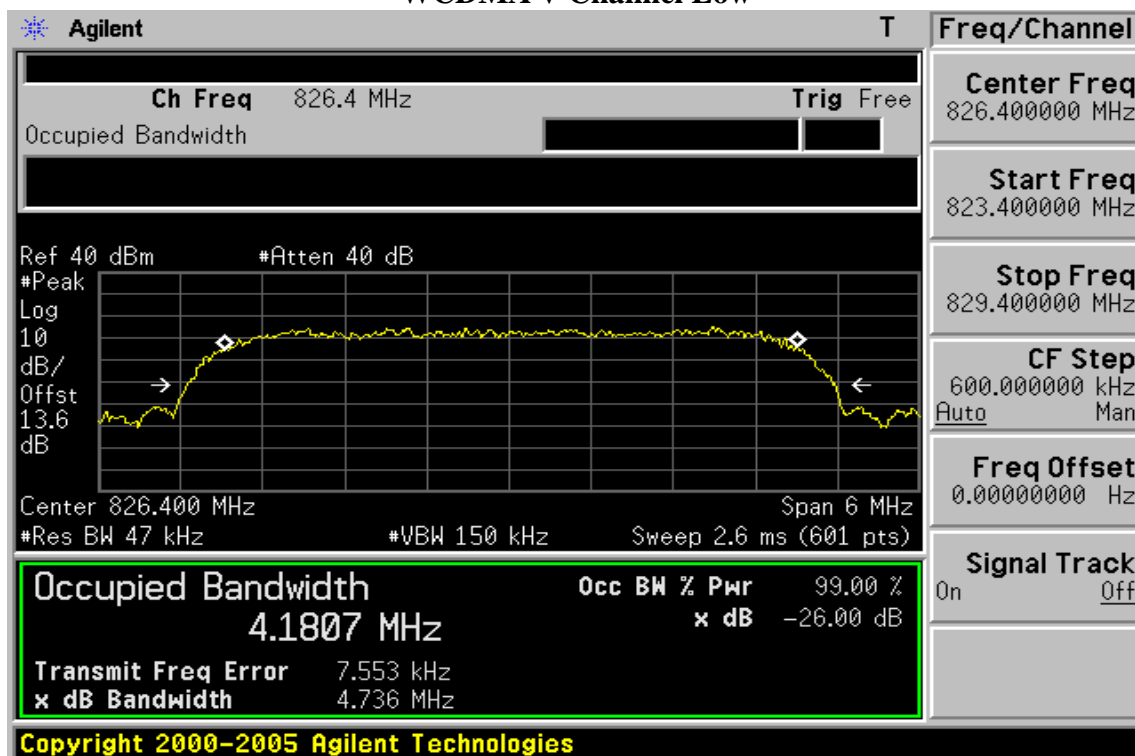
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HSUPA II Channel High



WCDMA V Channel Low



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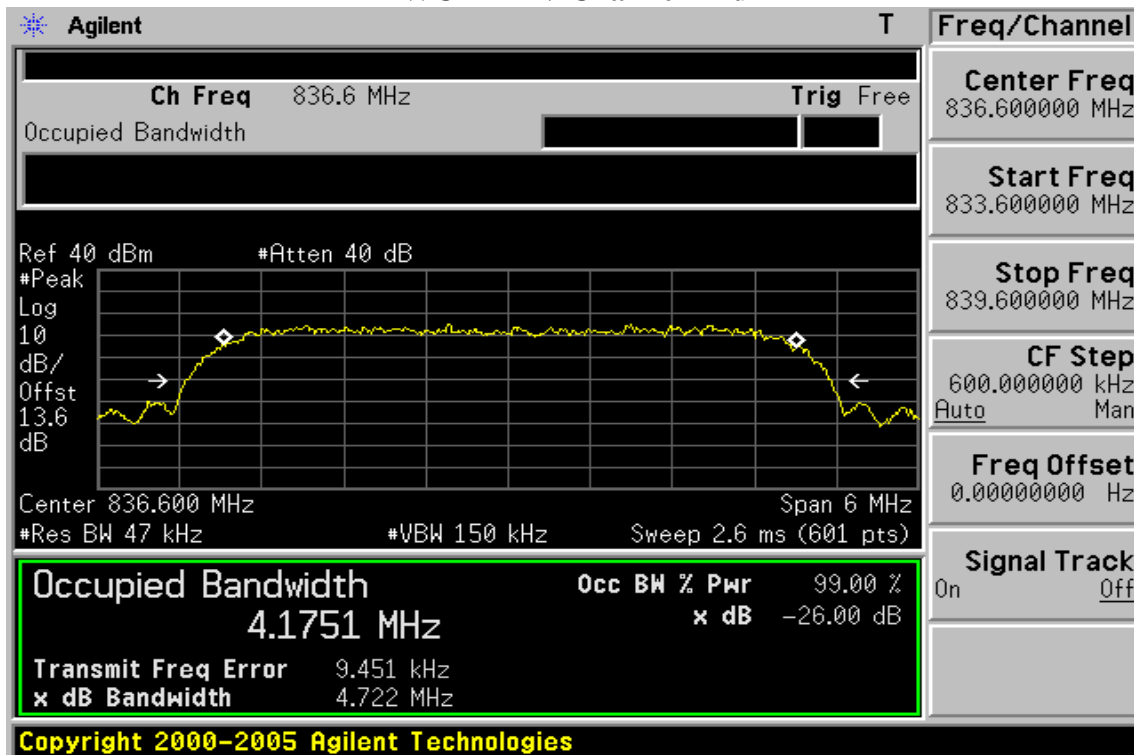
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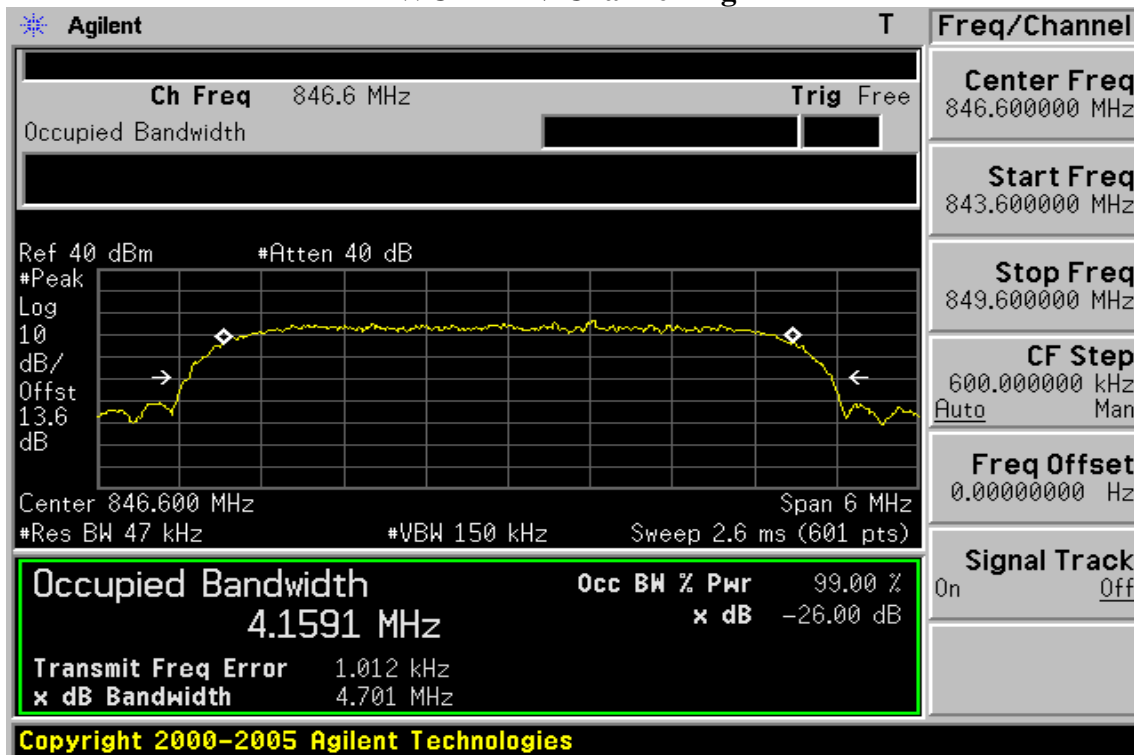
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WCDMA V Channel Mid



WCDMA V Channel High



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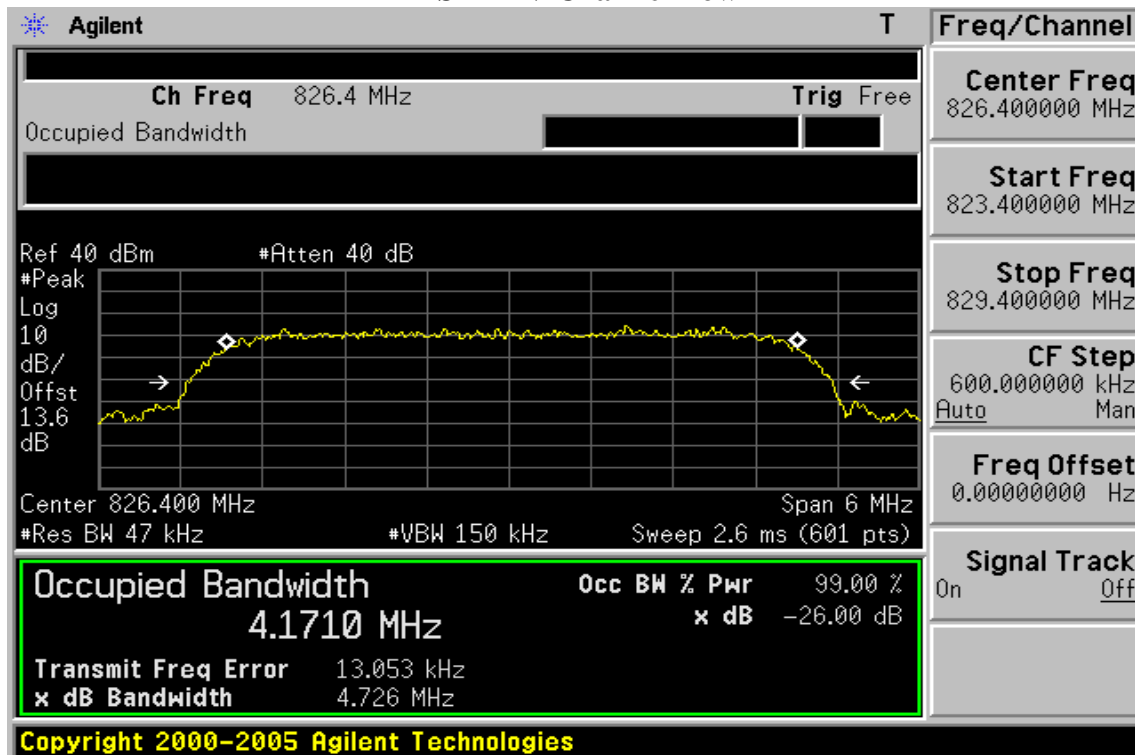
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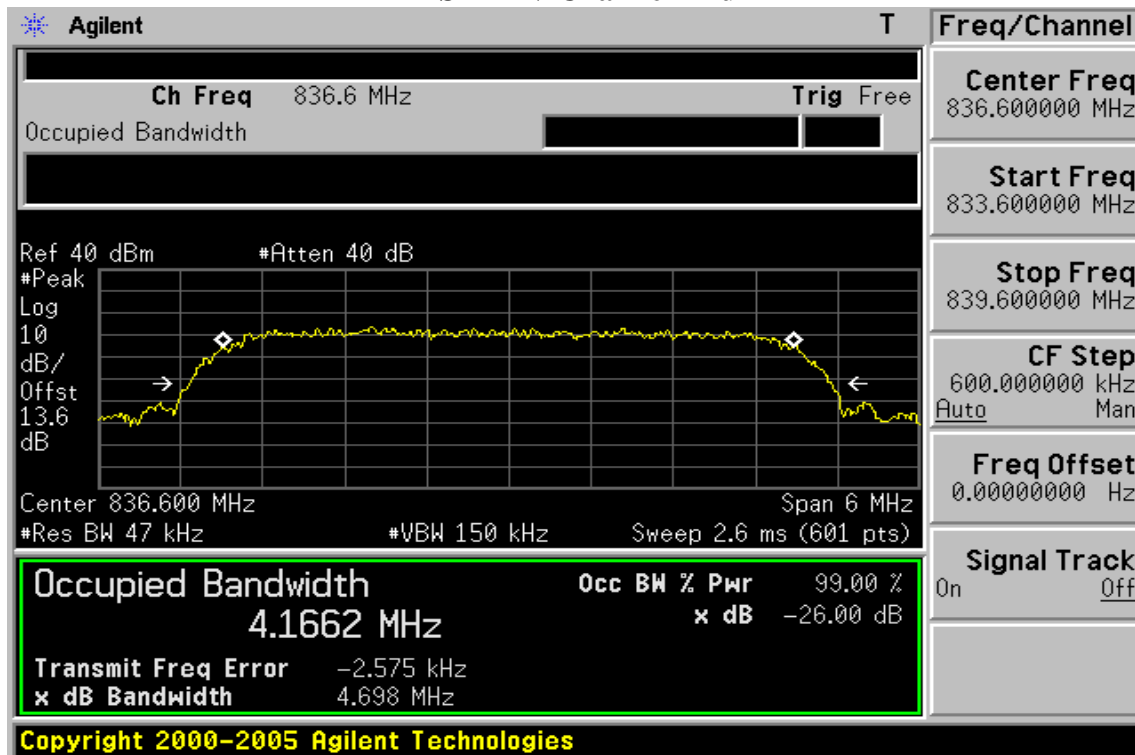
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HSDPA V Channel Low



HSDPA V Channel Mid



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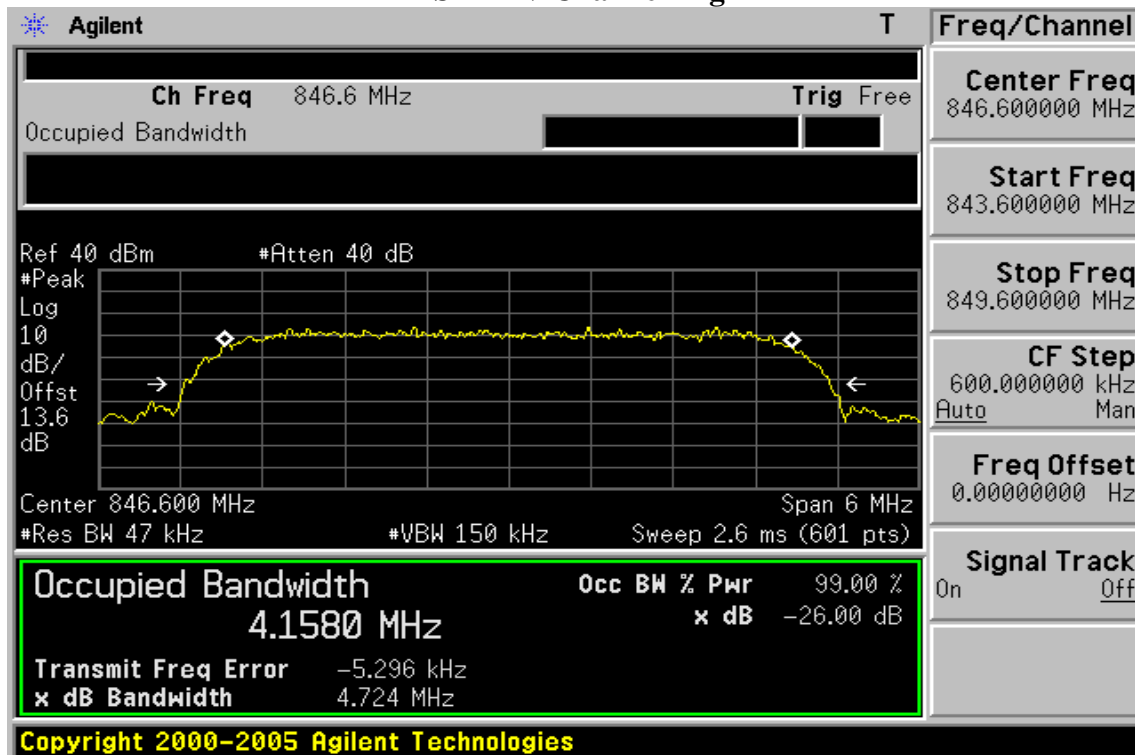
t (886-2) 2299-3279

f (886-2) 2298-0488

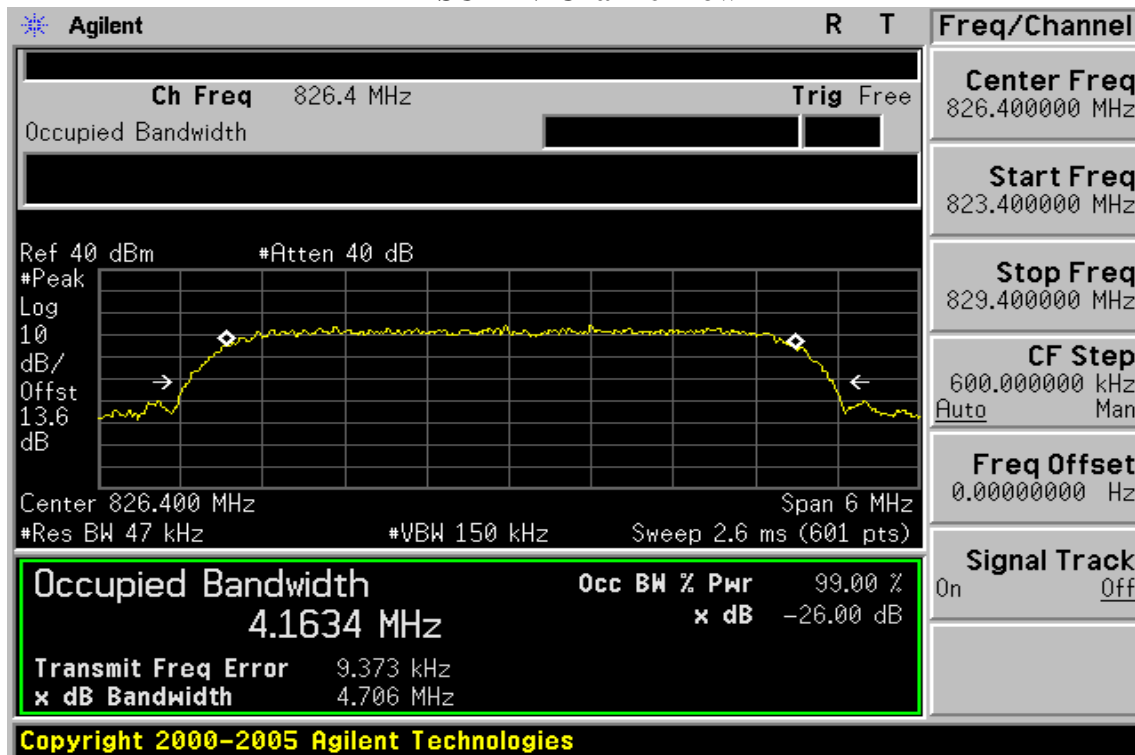
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HSDPA V Channel High



HSUPA V Channel Low



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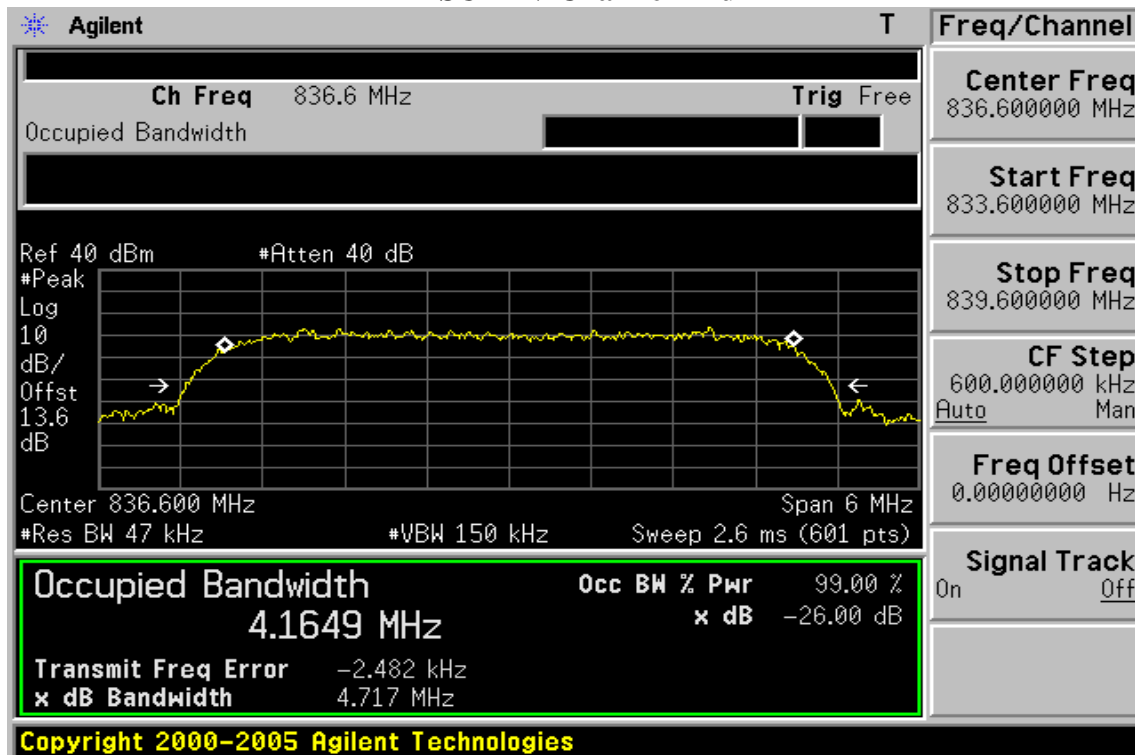
t (886-2) 2299-3279

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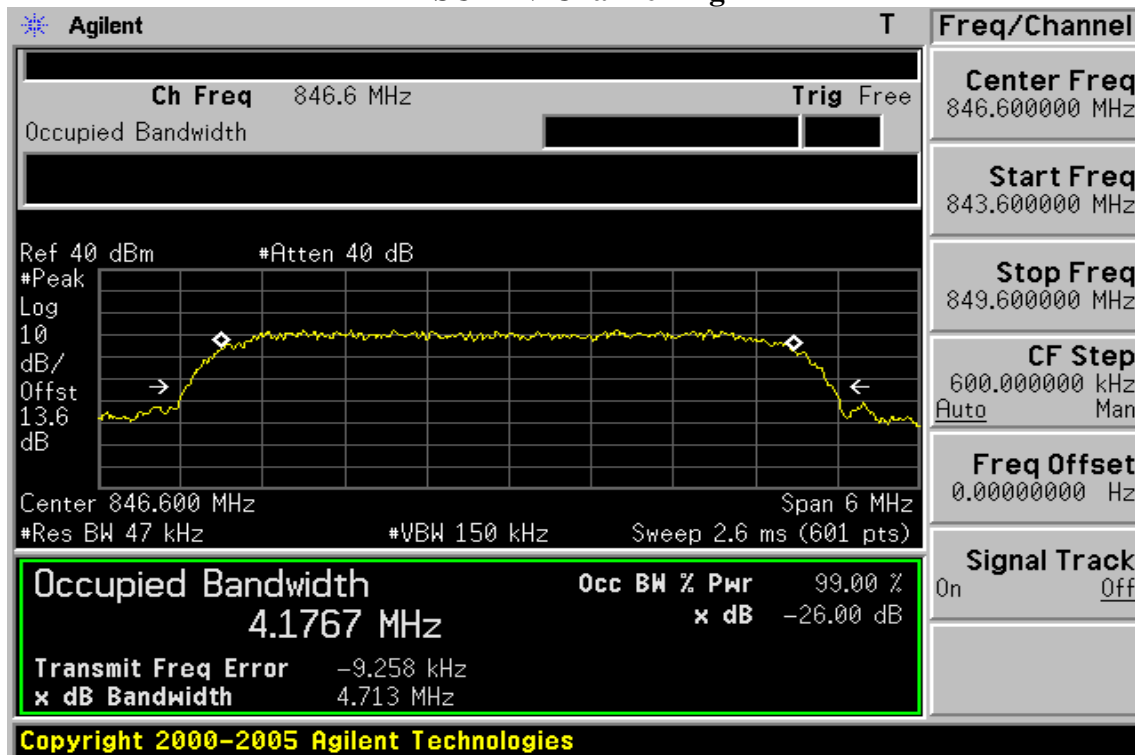
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Member of SGS Group

HSUPA V Channel Mid



HSUPA V Channel High



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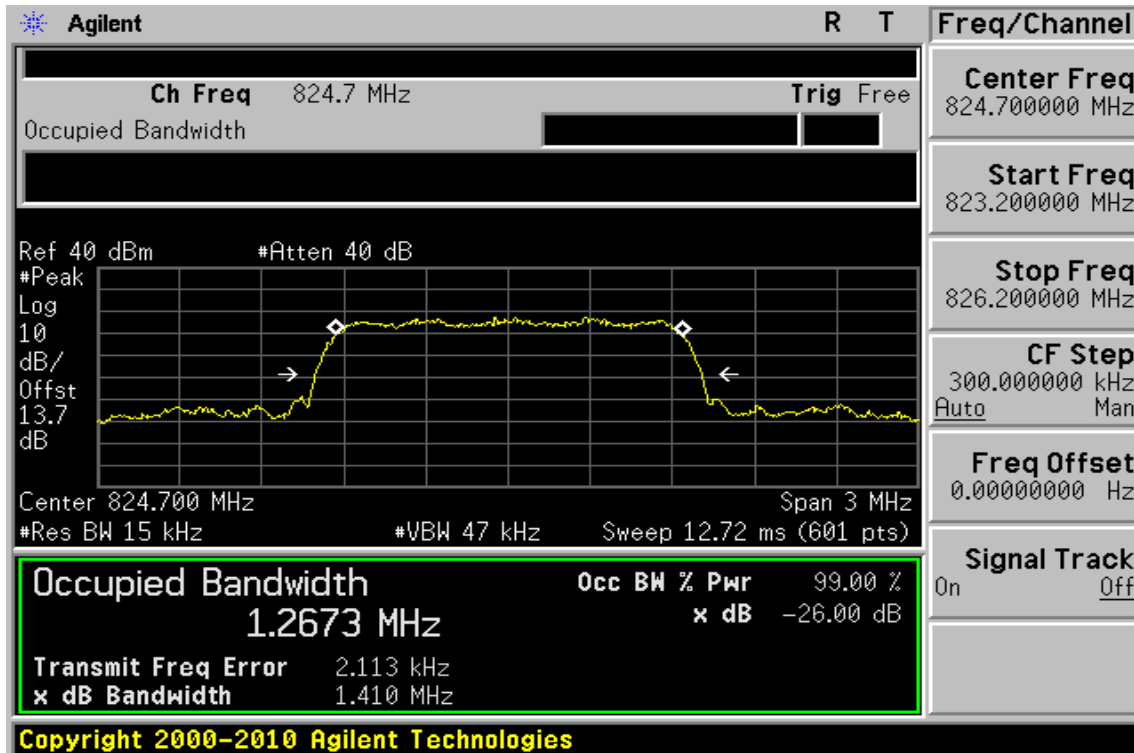
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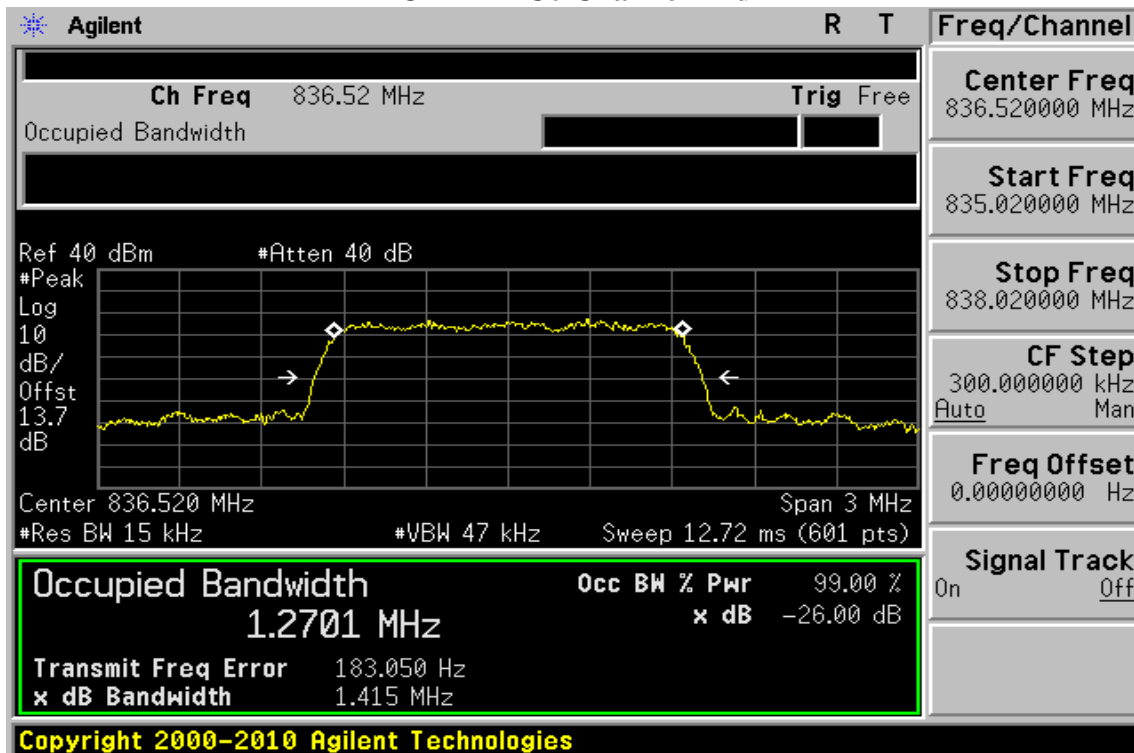
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CDMA BC0 Channel Low



CDMA BC0 Channel Mid



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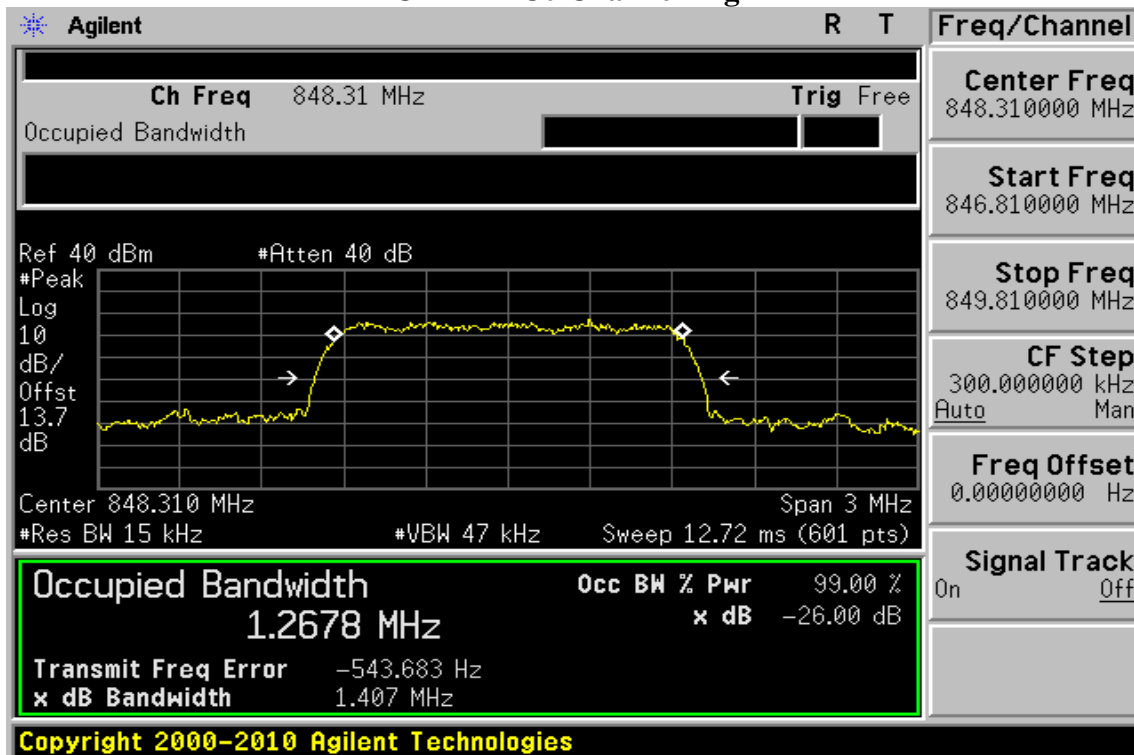
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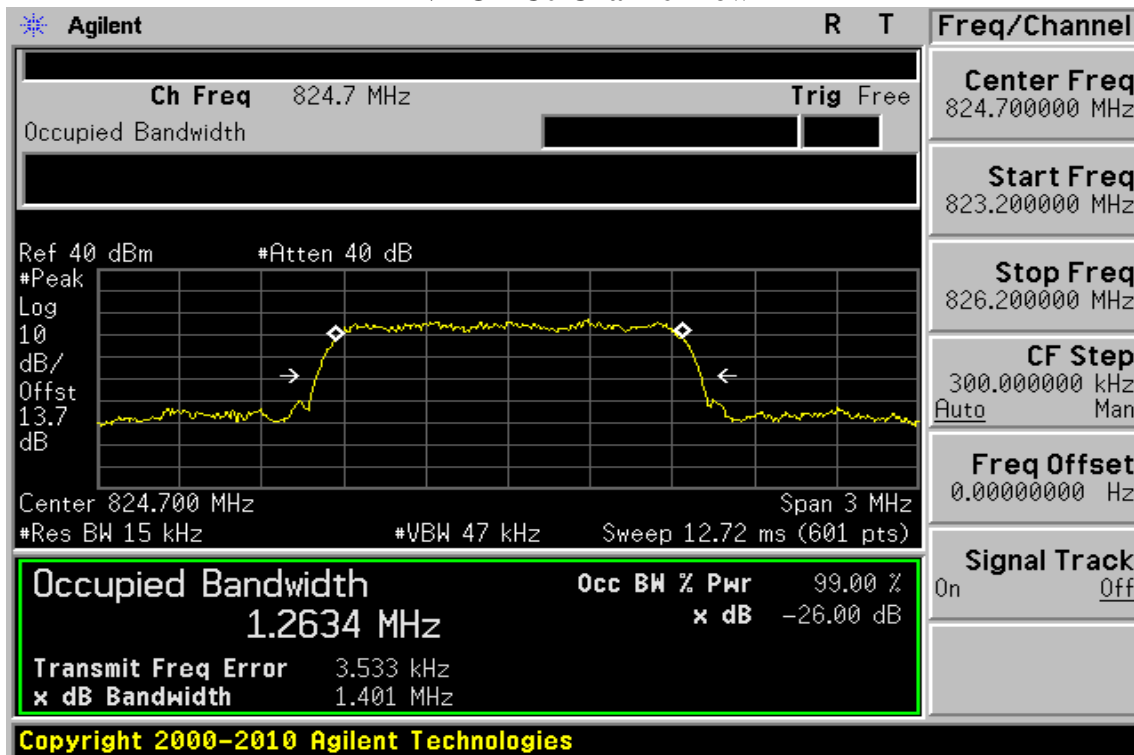
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CDMA BC0 Channel High



EVDO BC0 Channel Low



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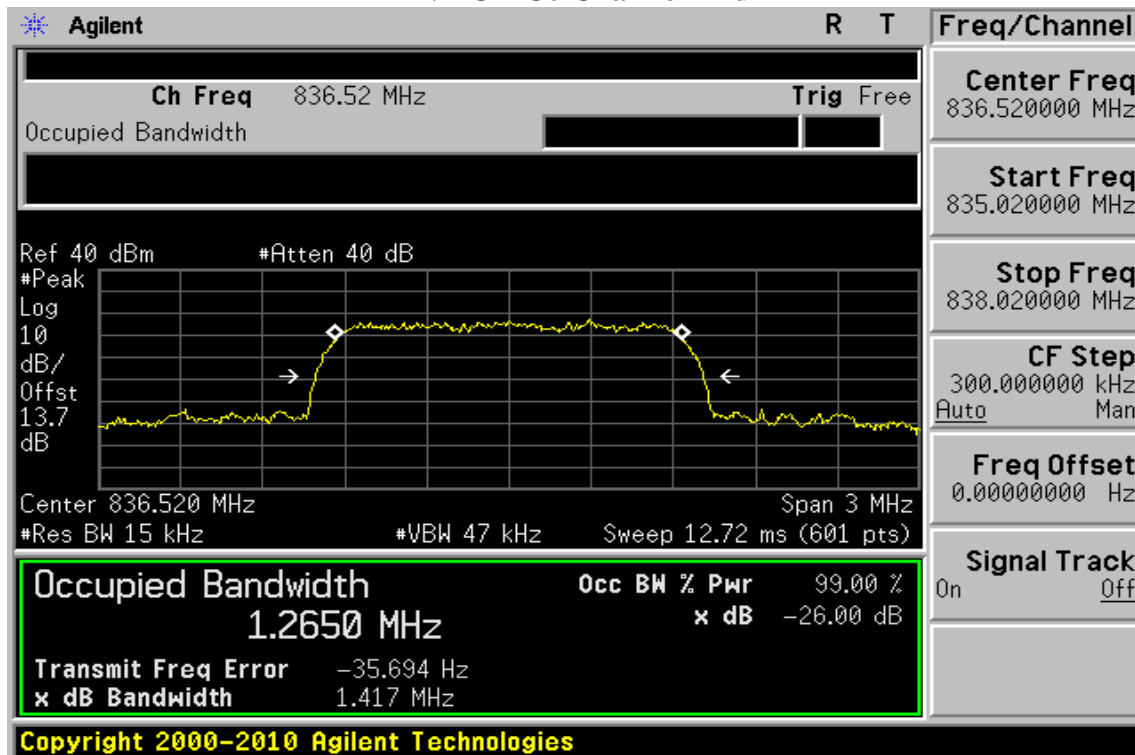
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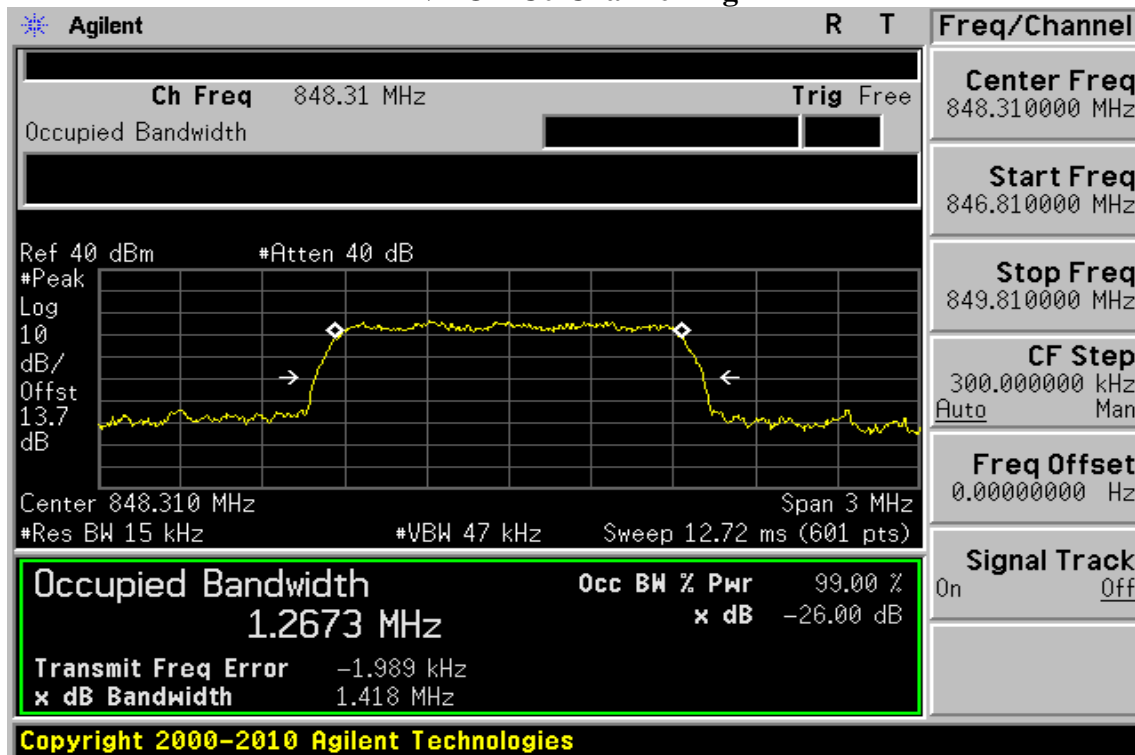
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EVDO BC0 Channel Mid



EVDO BC0 Channel High



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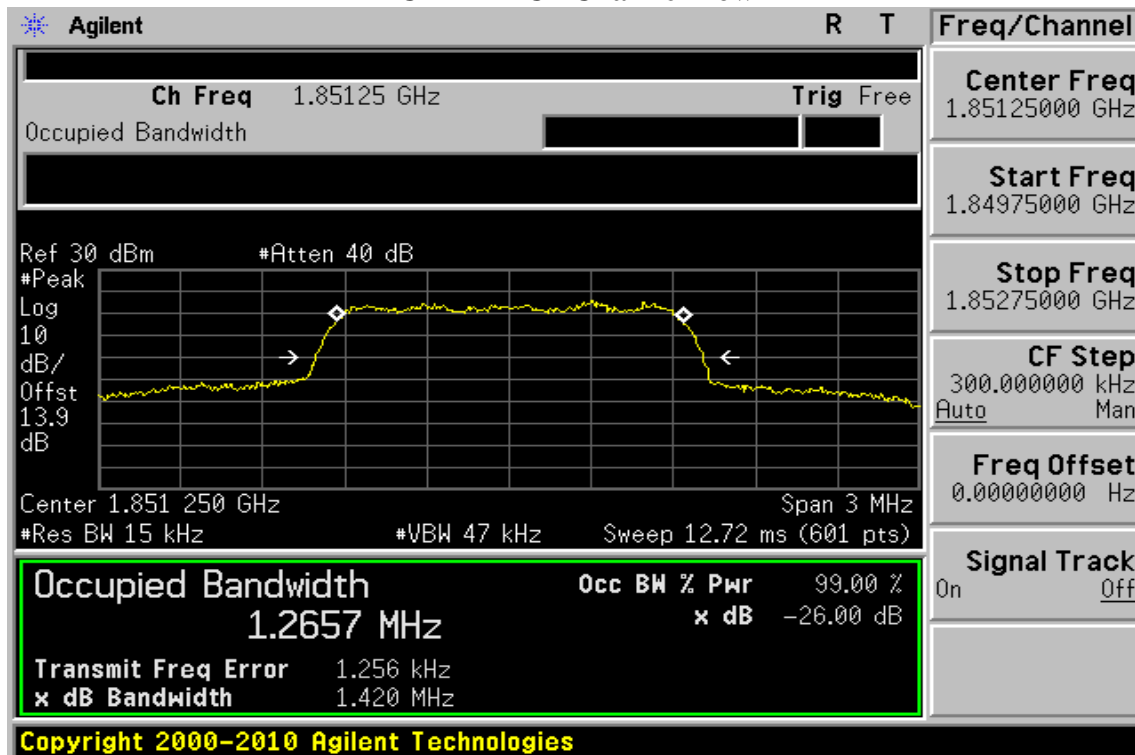
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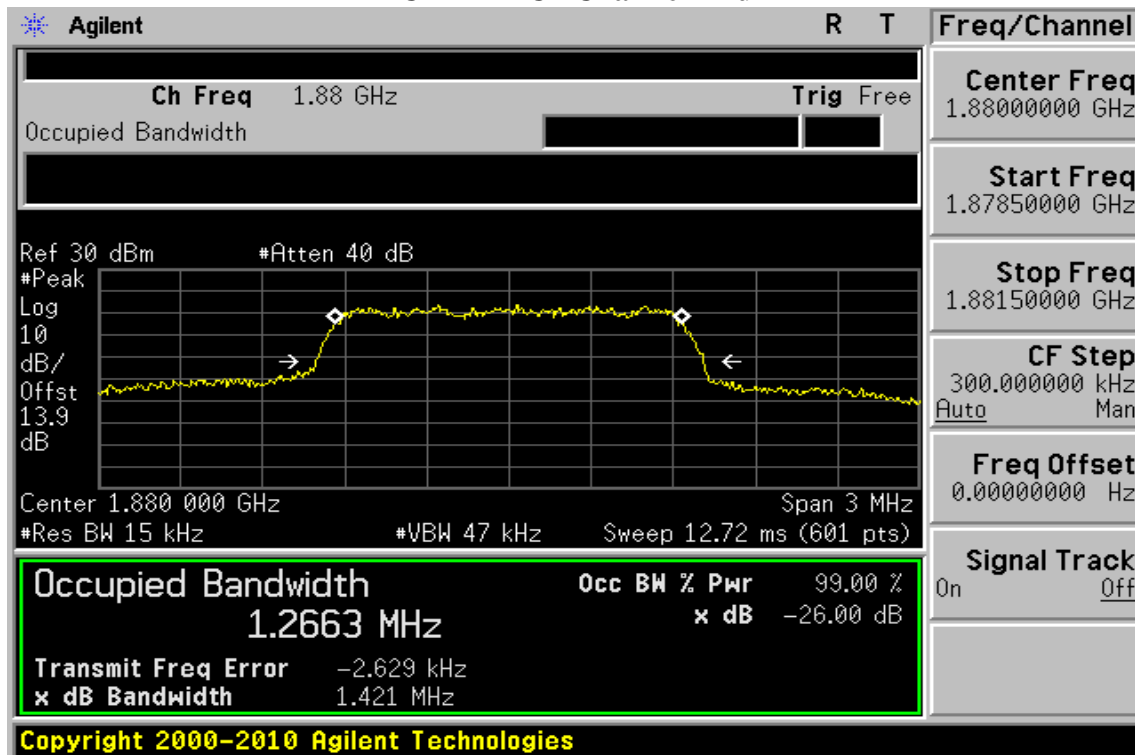
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CDMA BC1 Channel Low



CDMA BC1 Channel Mid



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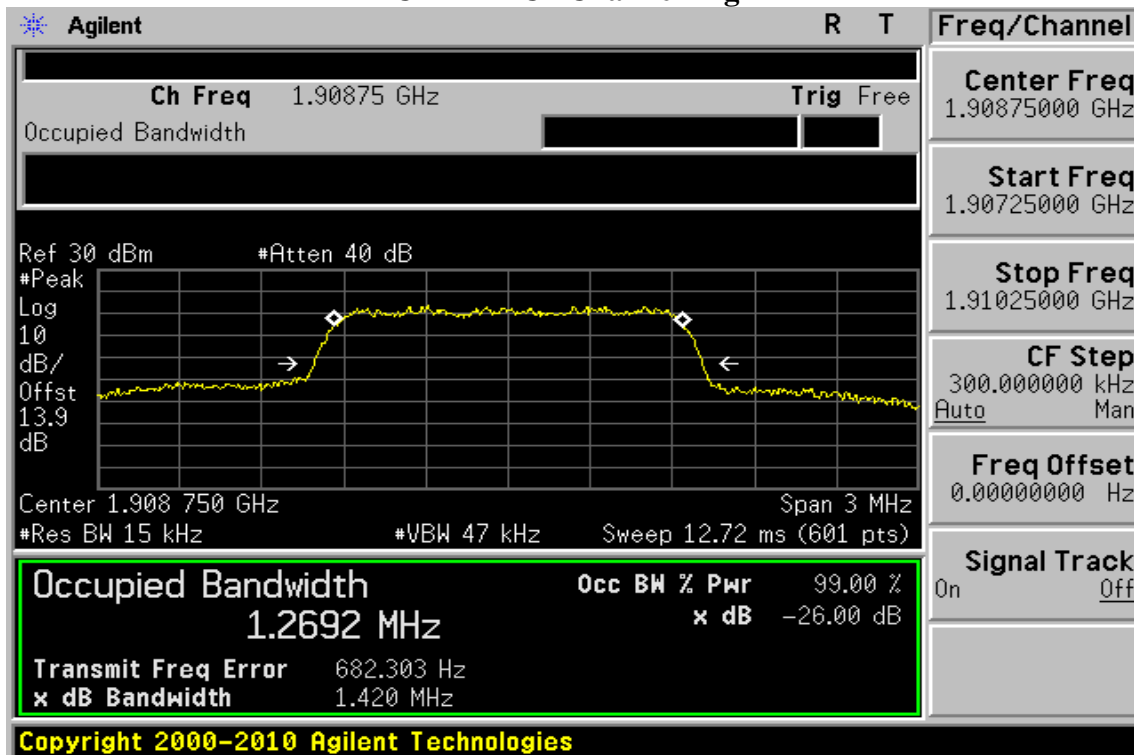
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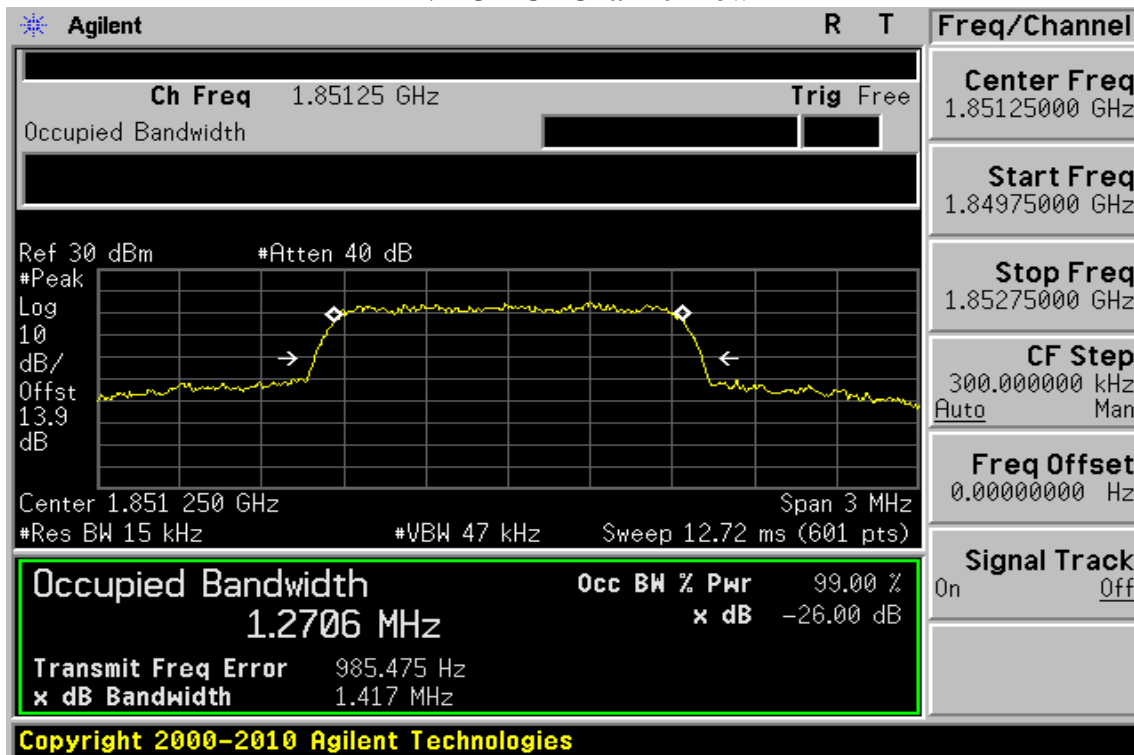
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CDMA BC1 Channel High



EVDO BC1 Channel Low



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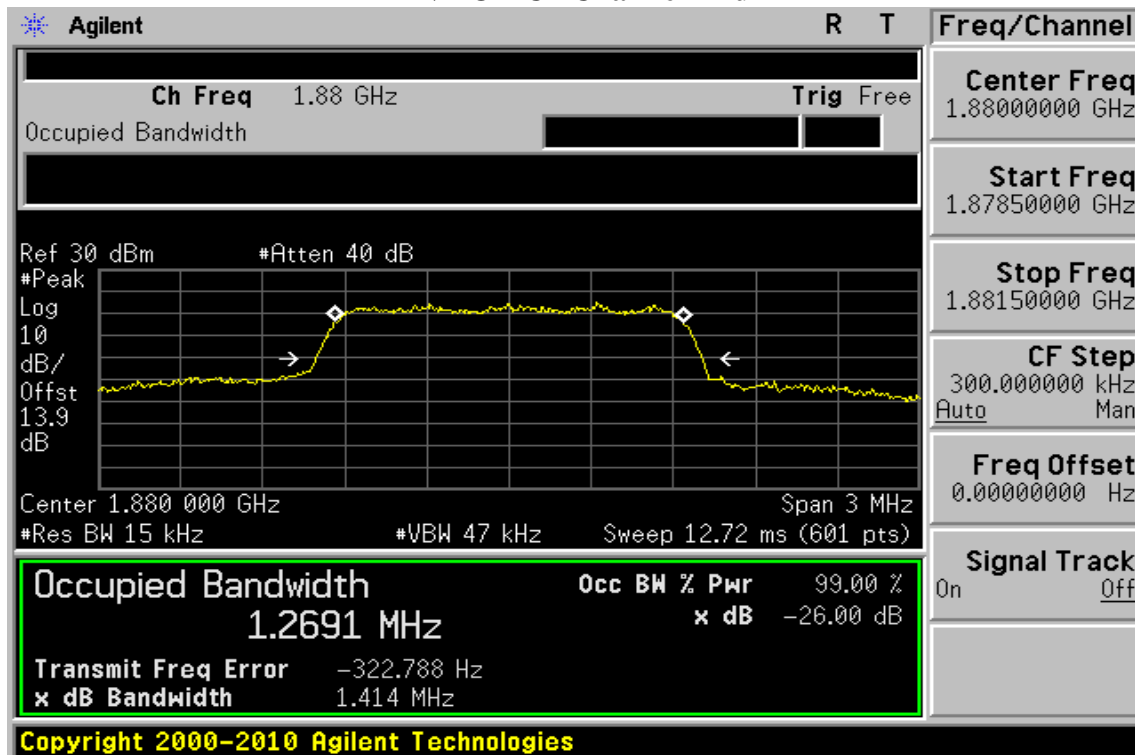
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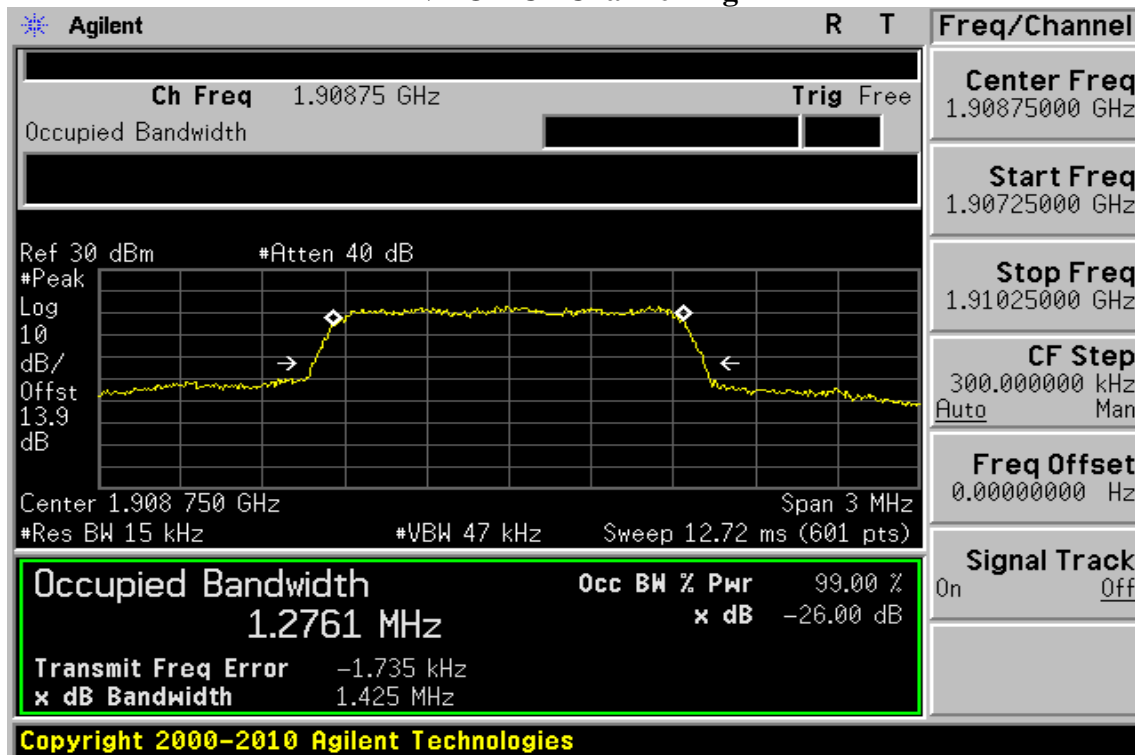
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EVDO BC1 Channel Mid



EVDO BC1 Channel High



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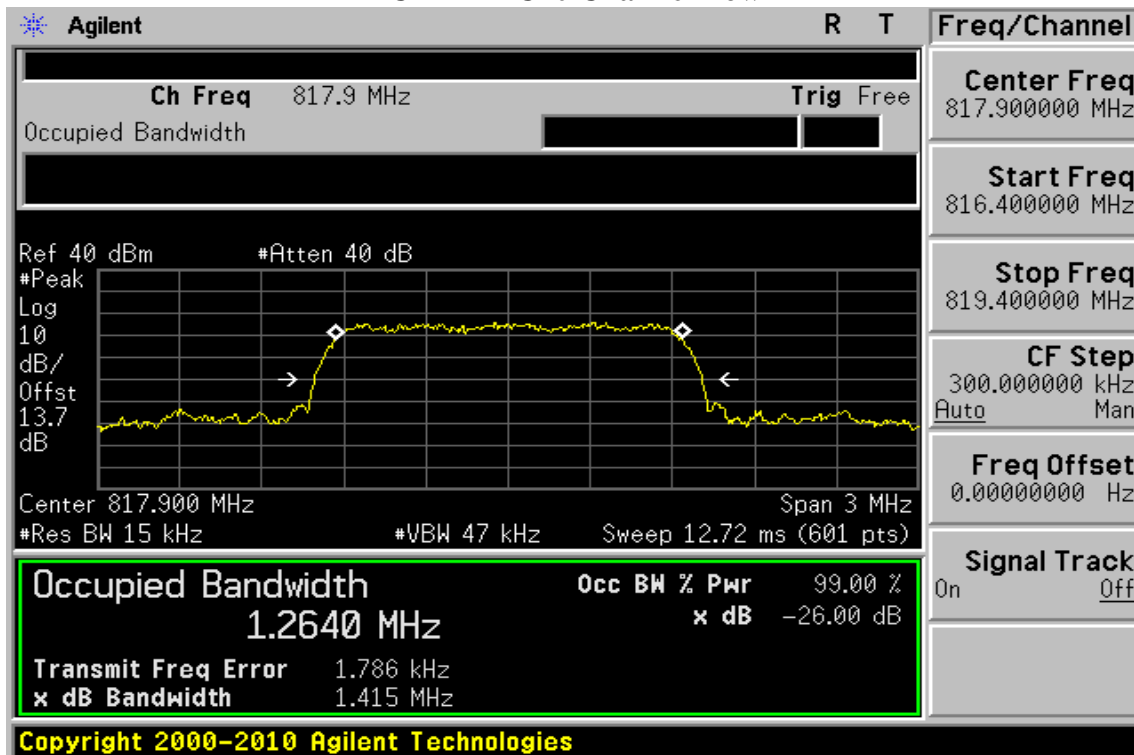
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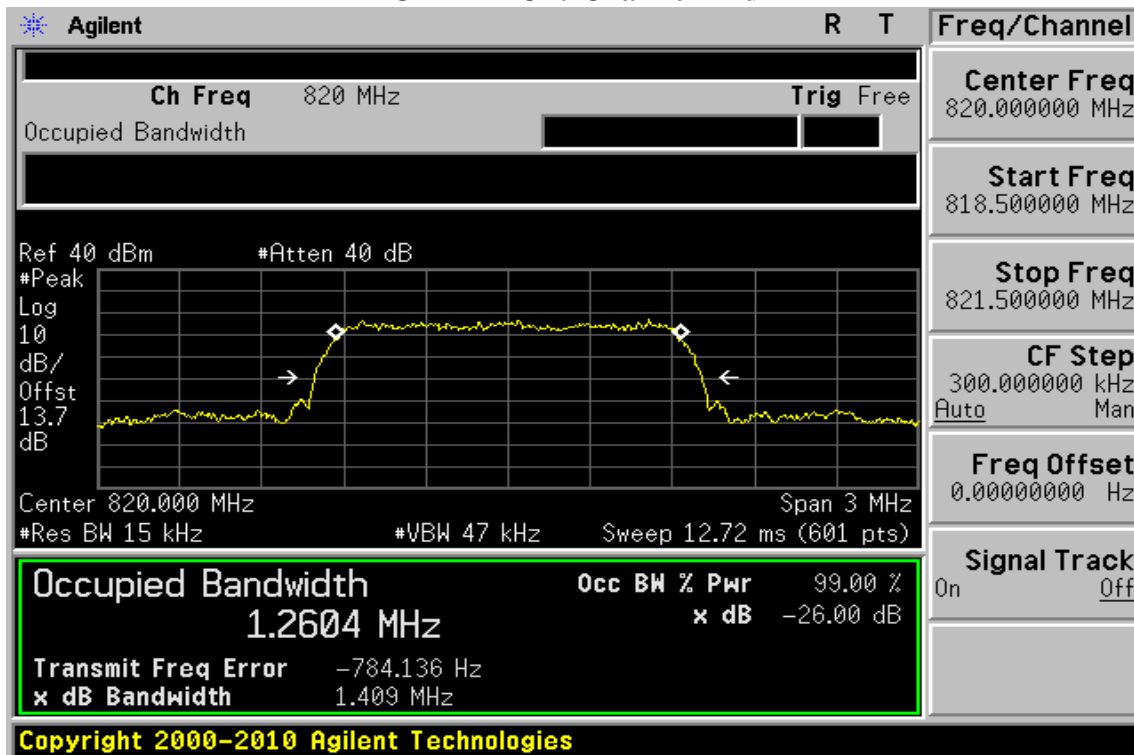
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CDMA BC10 Channel Low



CDMA BC10 Channel Mid



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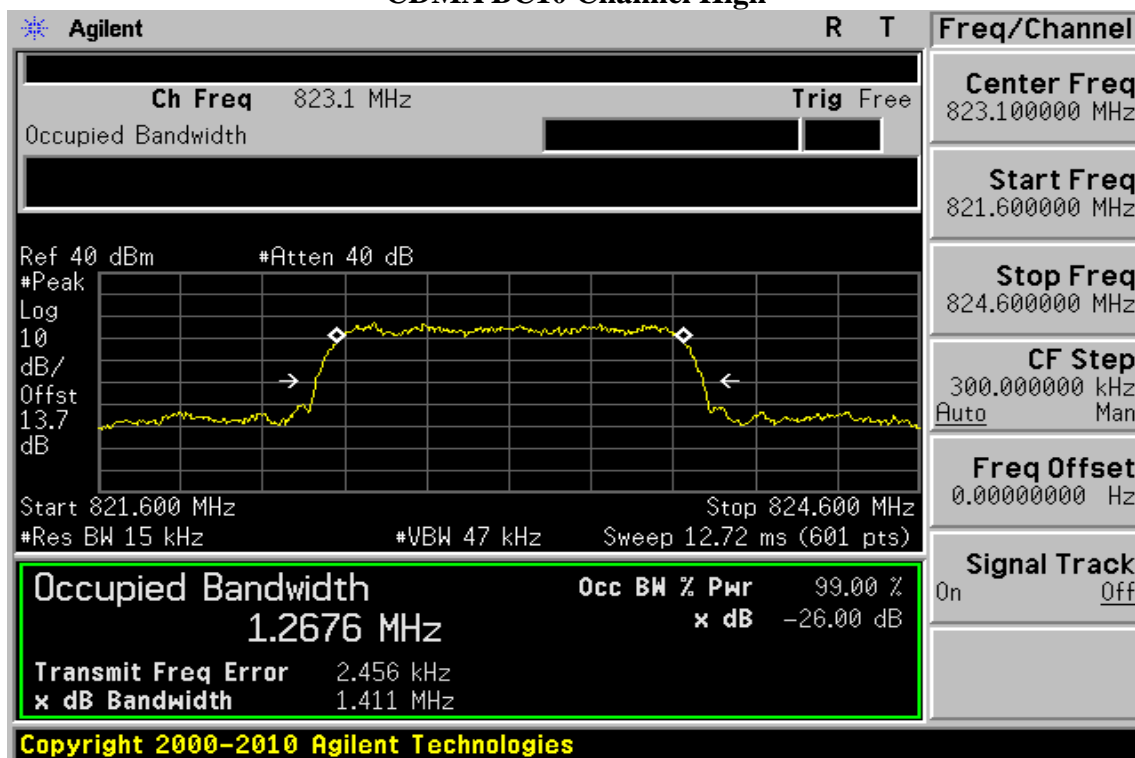
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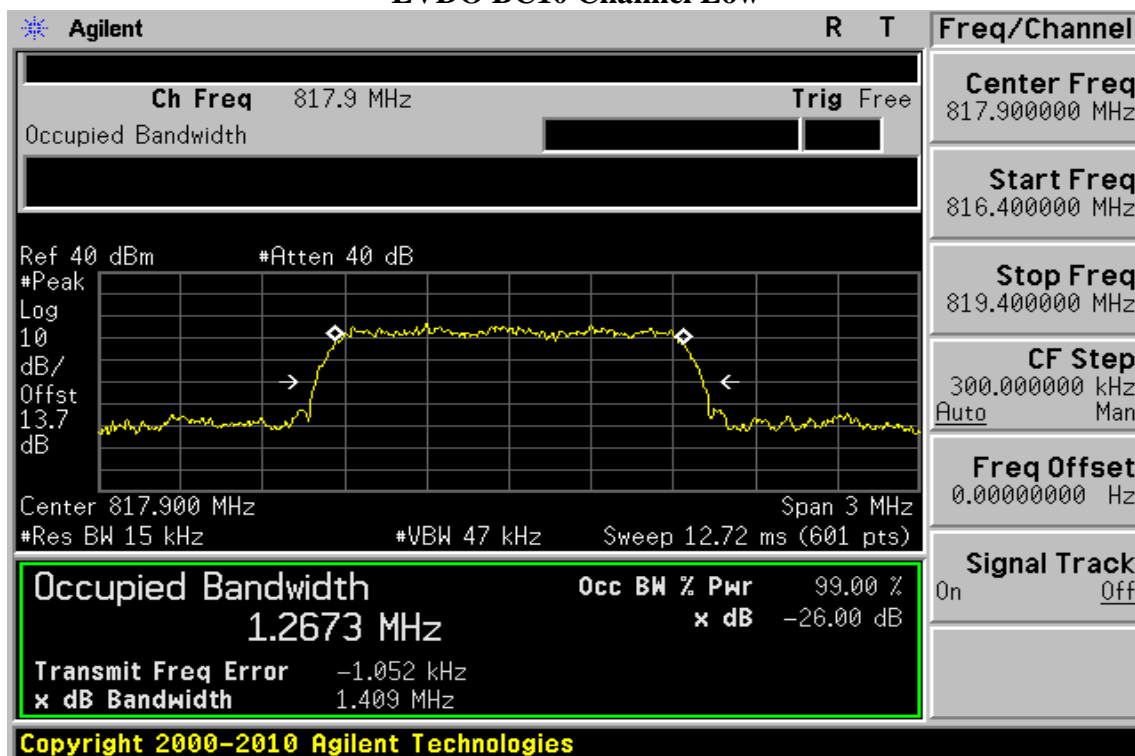
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CDMA BC10 Channel High



EVDO BC10 Channel Low



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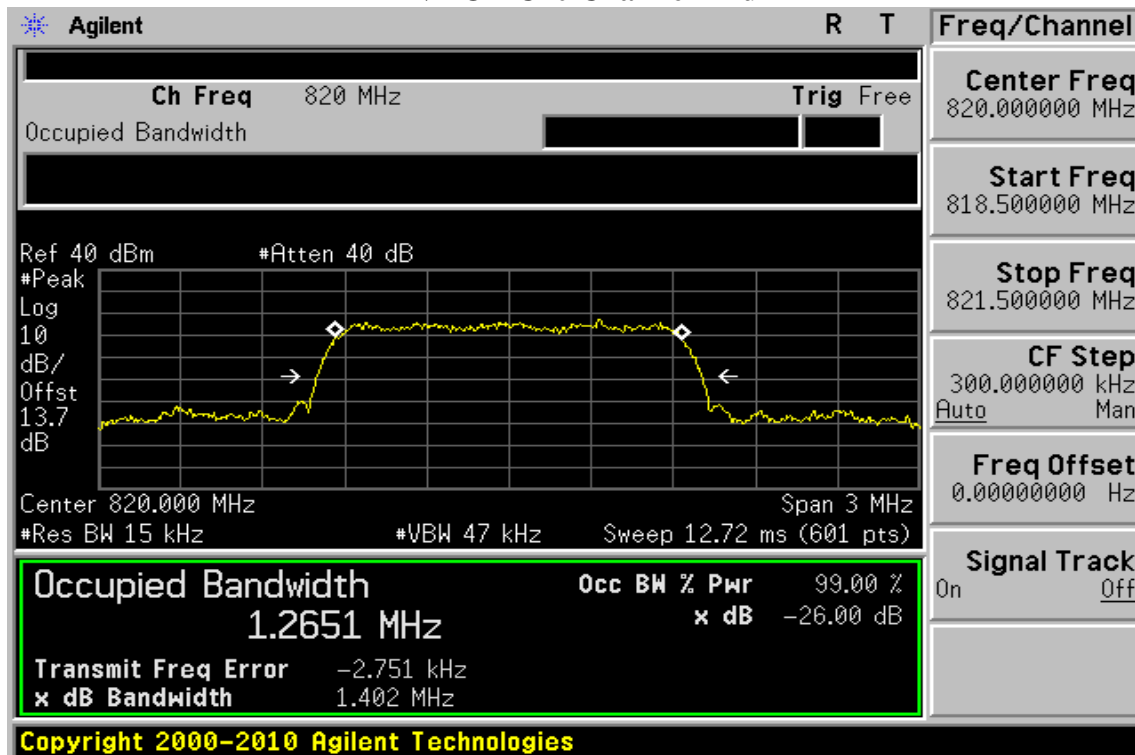
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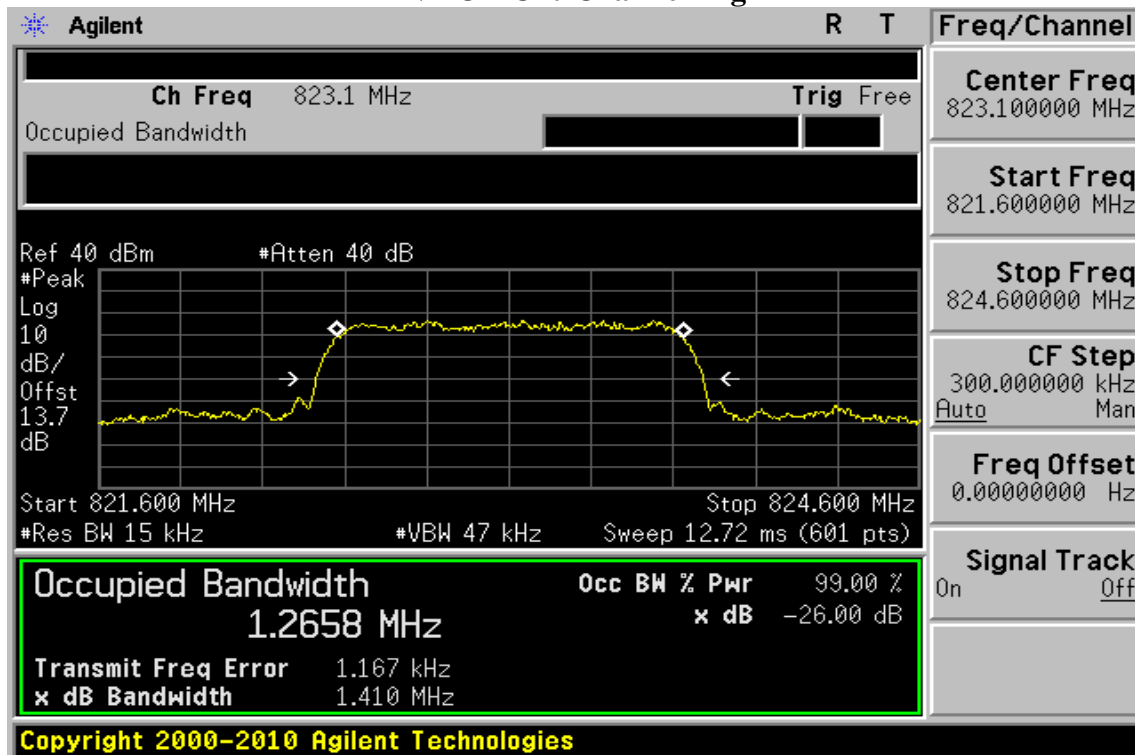
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EVDO BC10 Channel Mid



EVDO BC10 Channel High



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9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

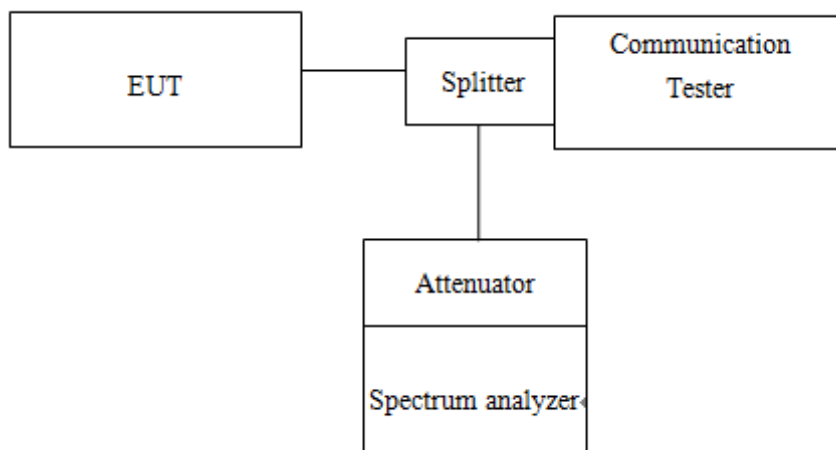
9.1. Standard Applicable

FCC §22.917(a), §24.238(a), §90.691(a)(1) 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).

FCC §90.691(a)(2)

For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

9.2. Test SET-UP



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9.3. Measurement Procedure

Conducted Emission

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.

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

Band Edge

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW \geq 1% EBW.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

9.4. Measurement Equipment Used

| Conducted Emission (measured at antenna port) Test Site | | | | | |
|---|---------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 01/29/2015 | 01/28/2016 |
| Radio Communication Analyzer | R&S | CMU200 | 102189 | 02/11/2015 | 02/10/2016 |
| Radio Communication Analyzer | Anritsu | MT8820C | 6200995019 | 10/08/2014 | 10/09/2015 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 01/02/2015 | 01/01/2016 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 002 | 01/02/2015 | 01/01/2016 |
| Splitter | Agilent | 11636B | N/A | 01/02/2015 | 01/01/2016 |
| DC Power Supply | Agilent | E3640A | MY52410006 | 11/10/2014 | 11/09/2015 |

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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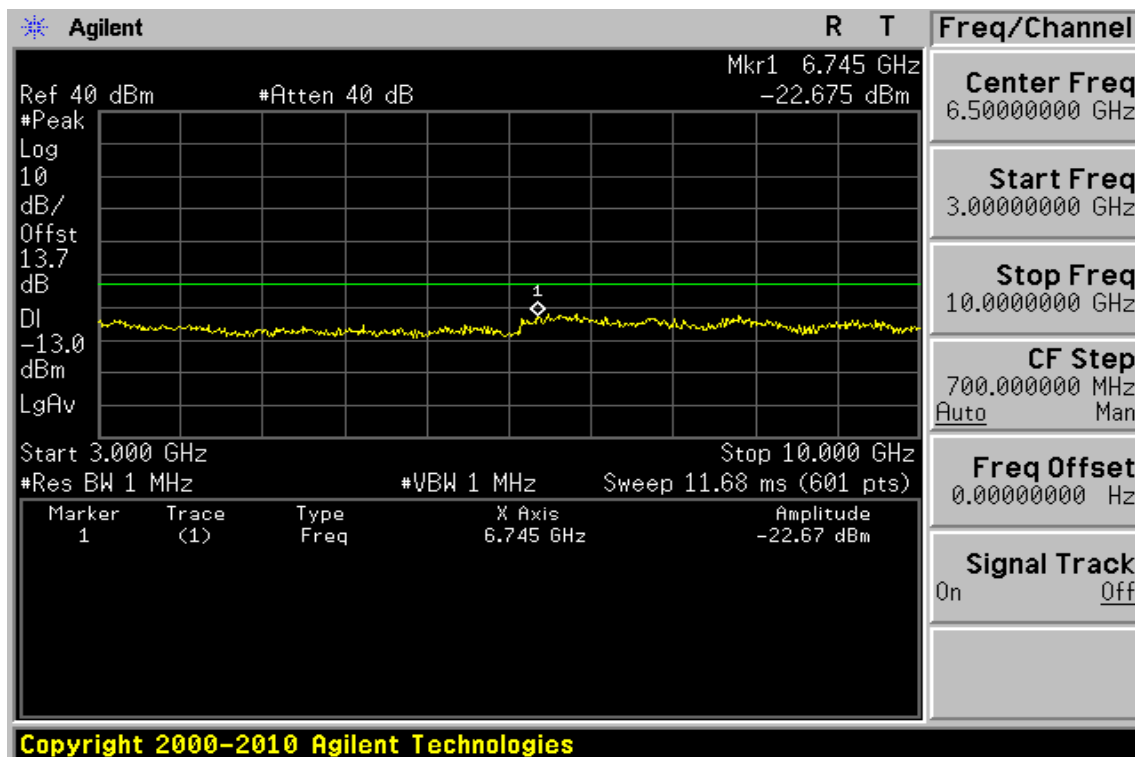
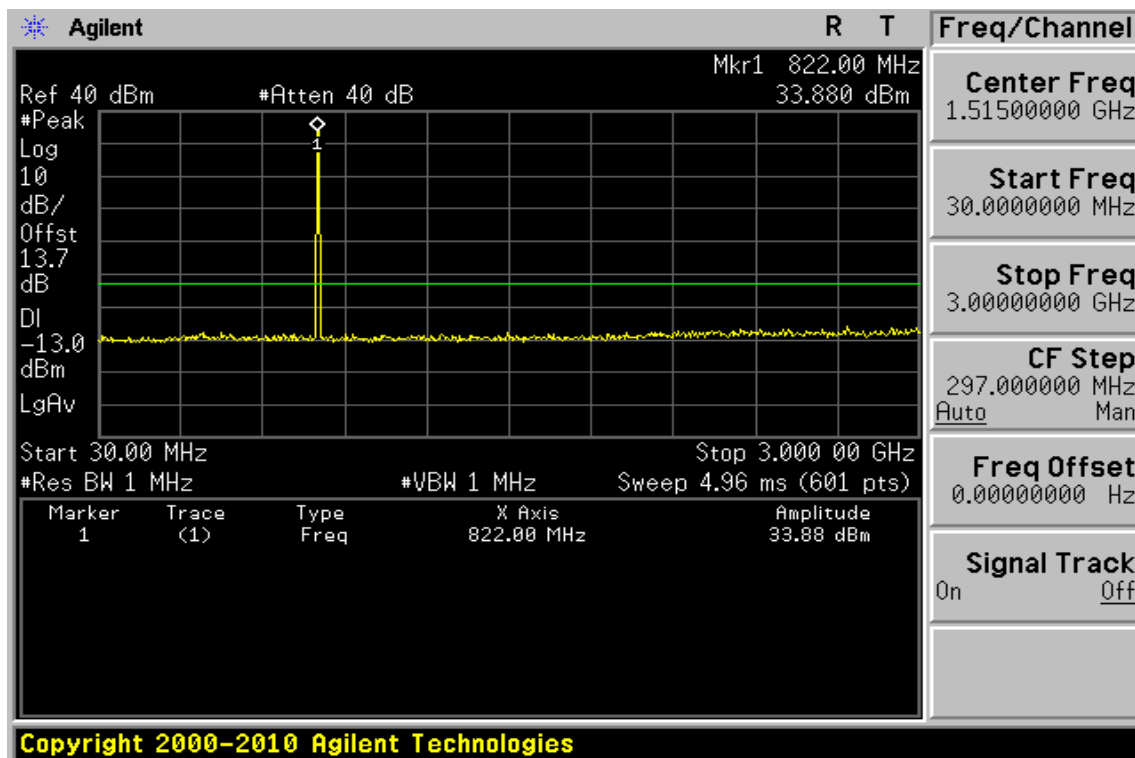
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Out of Band emission at antenna terminals – GPRS 850 Channel Lowest



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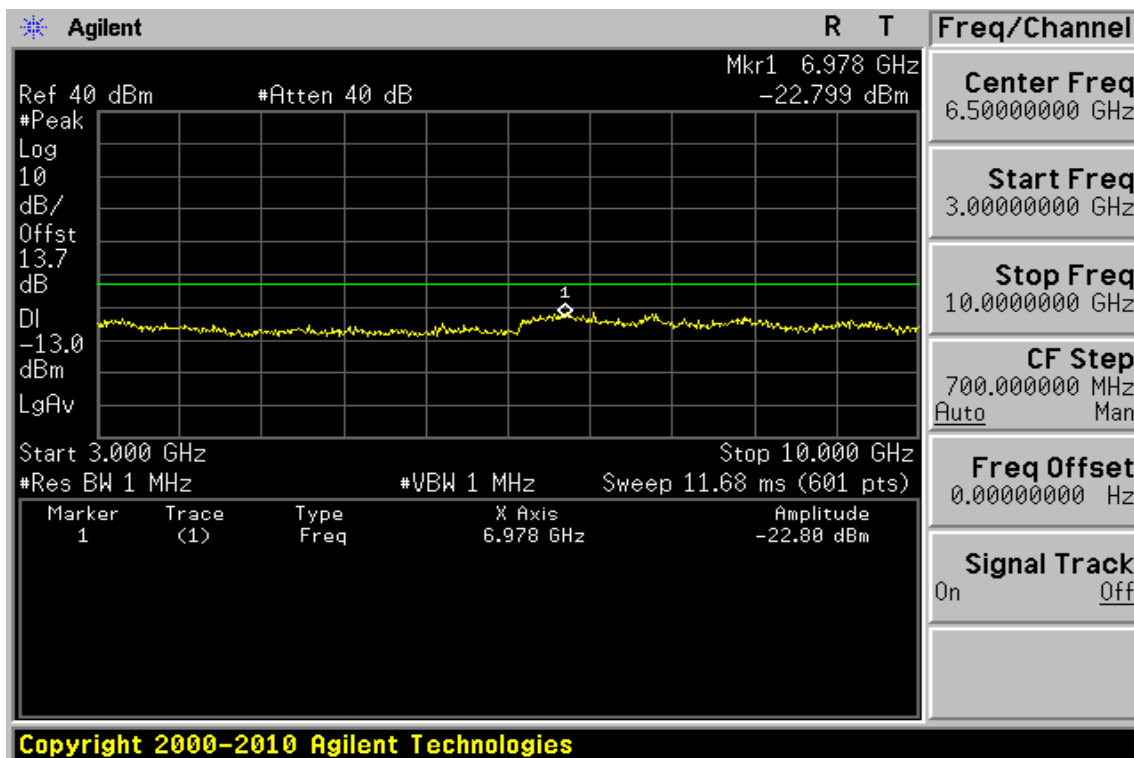
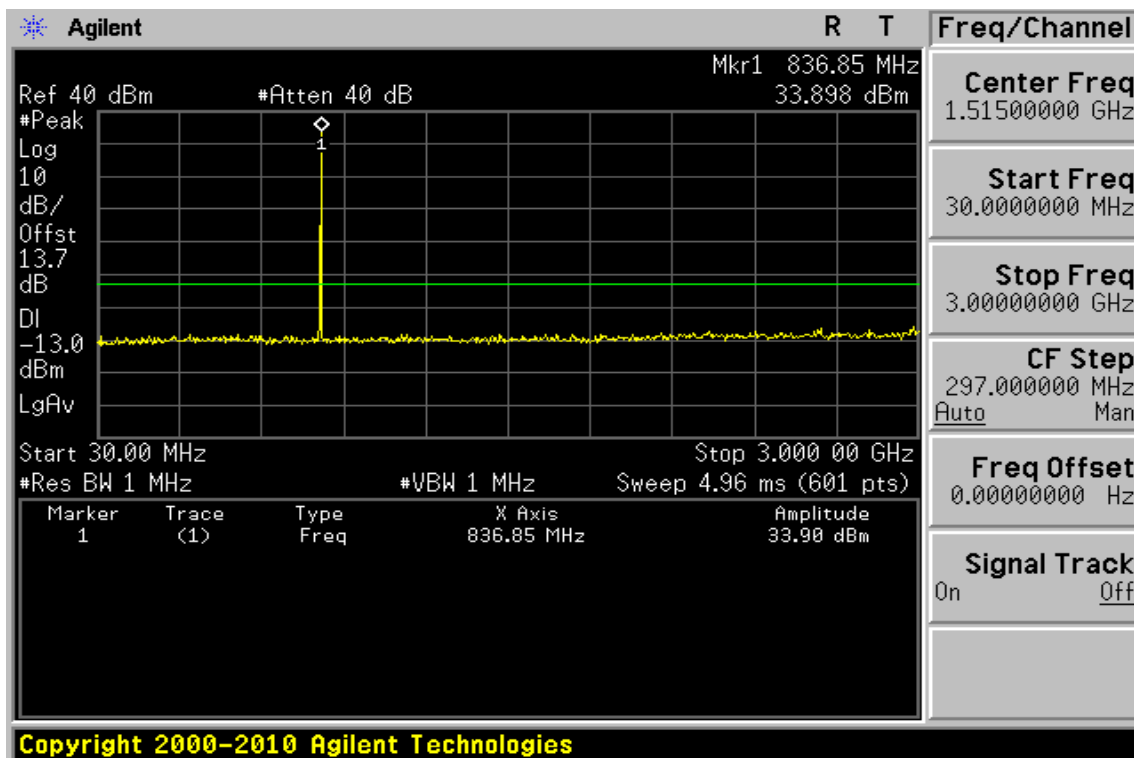
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Out of Band emission at antenna terminals – GPRS 850 Channel Mid



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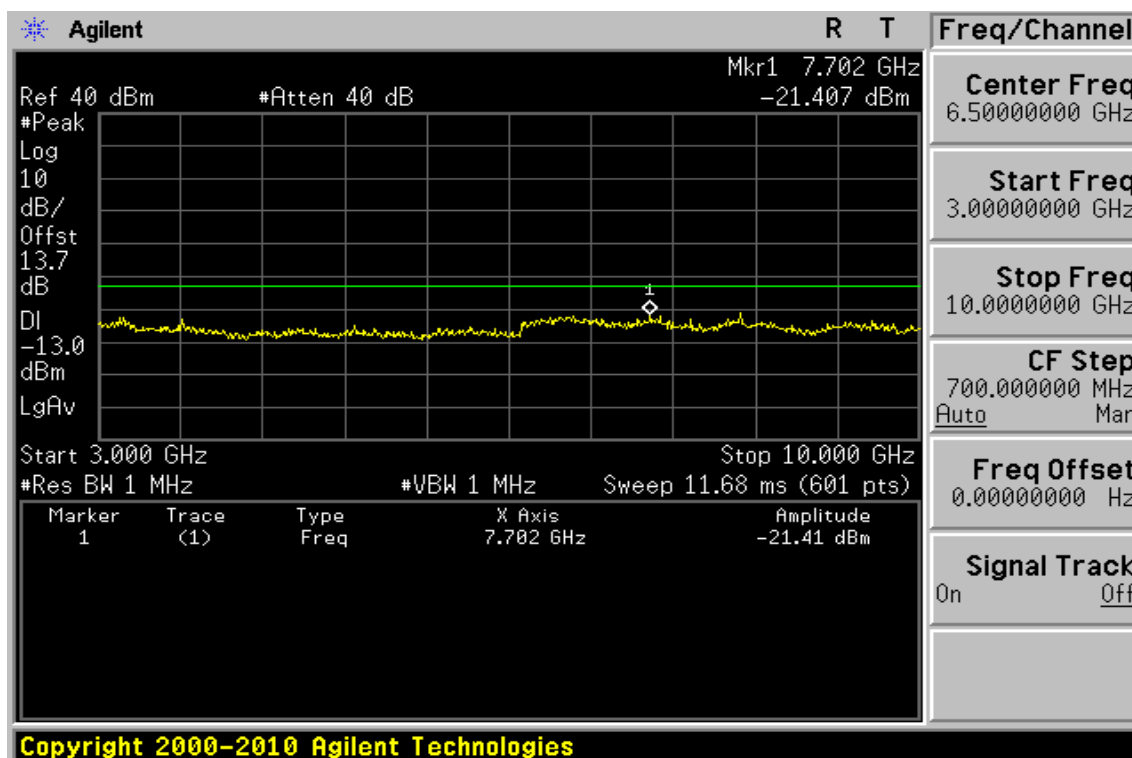
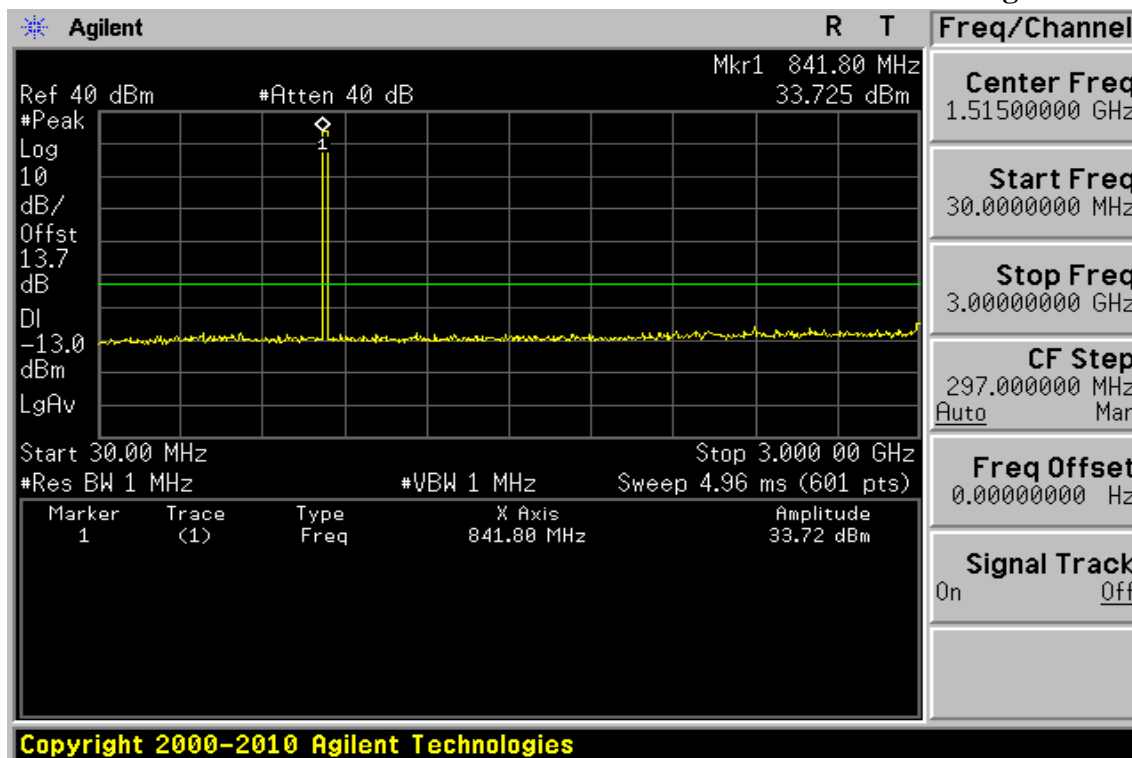
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Out of Band emission at antenna terminals – GPRS 850 Channel Highest



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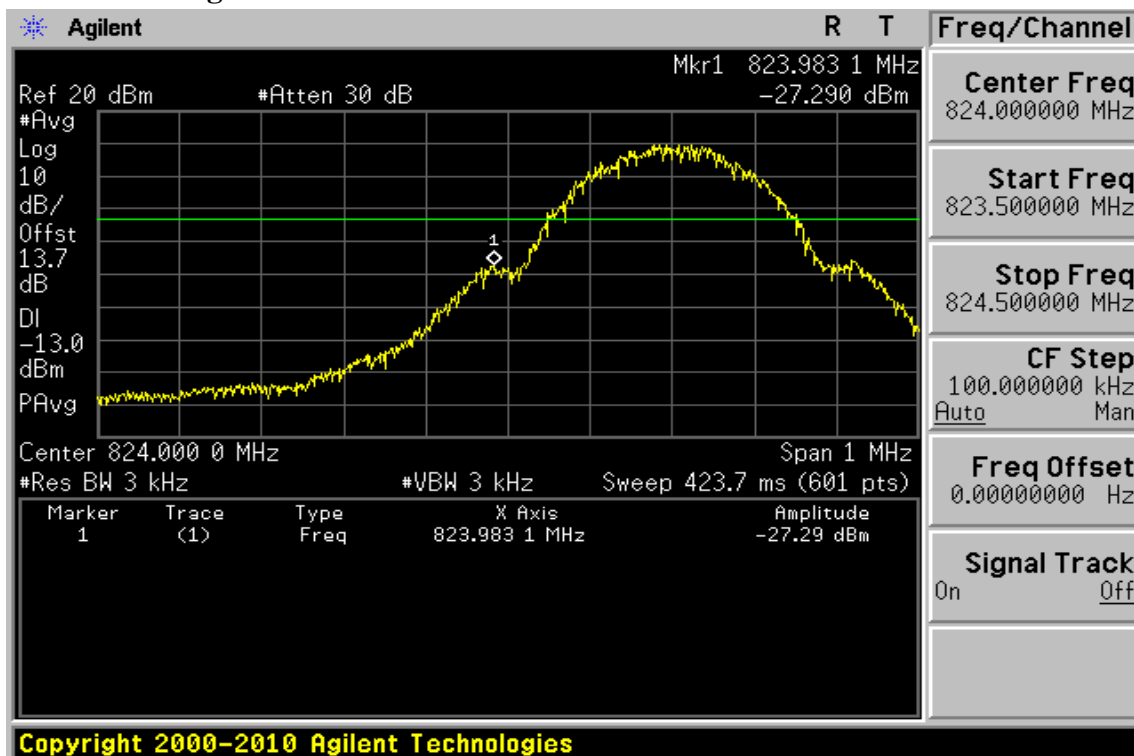
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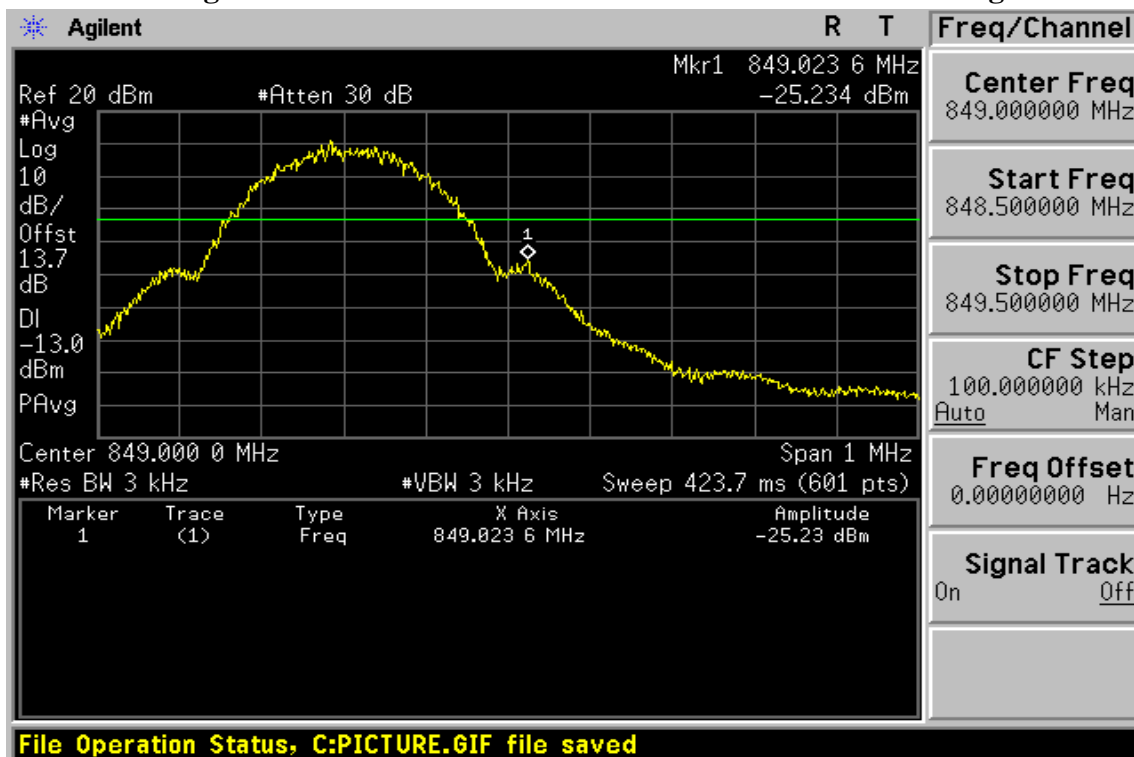
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Band edge emission at antenna terminals – GPRS 850 Channel Lowest



Band edge emission at antenna terminals – GPRS 850 Channel Highest



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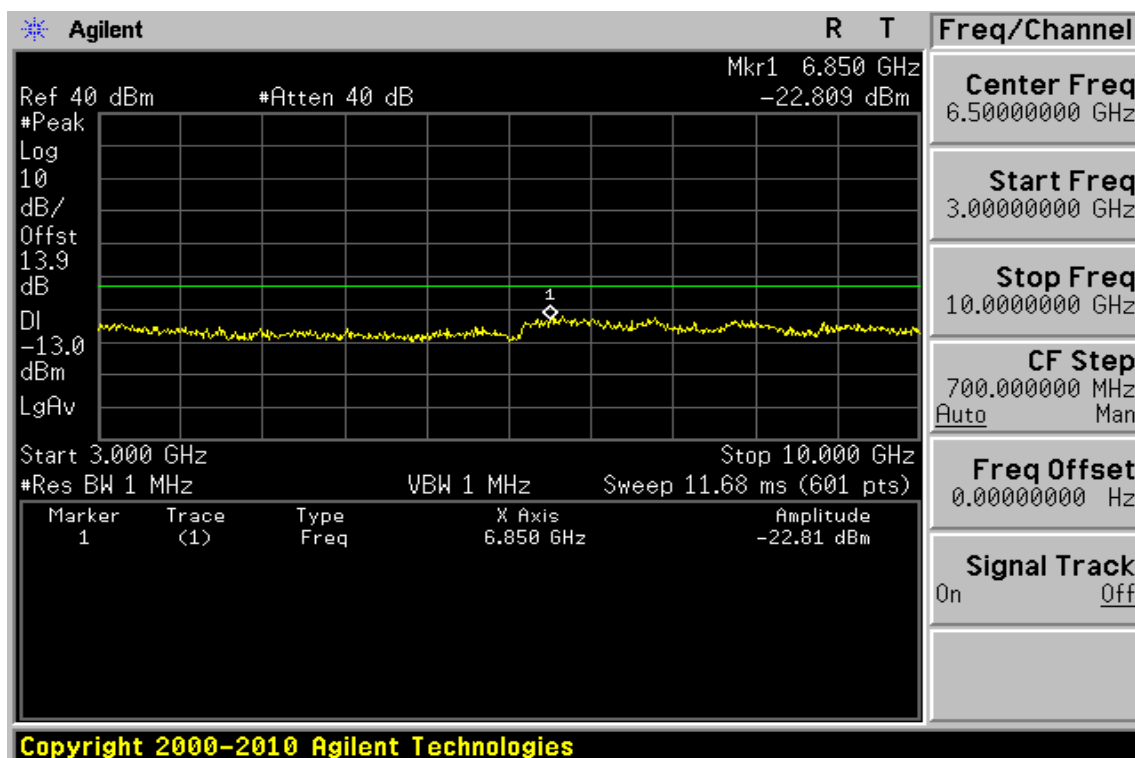
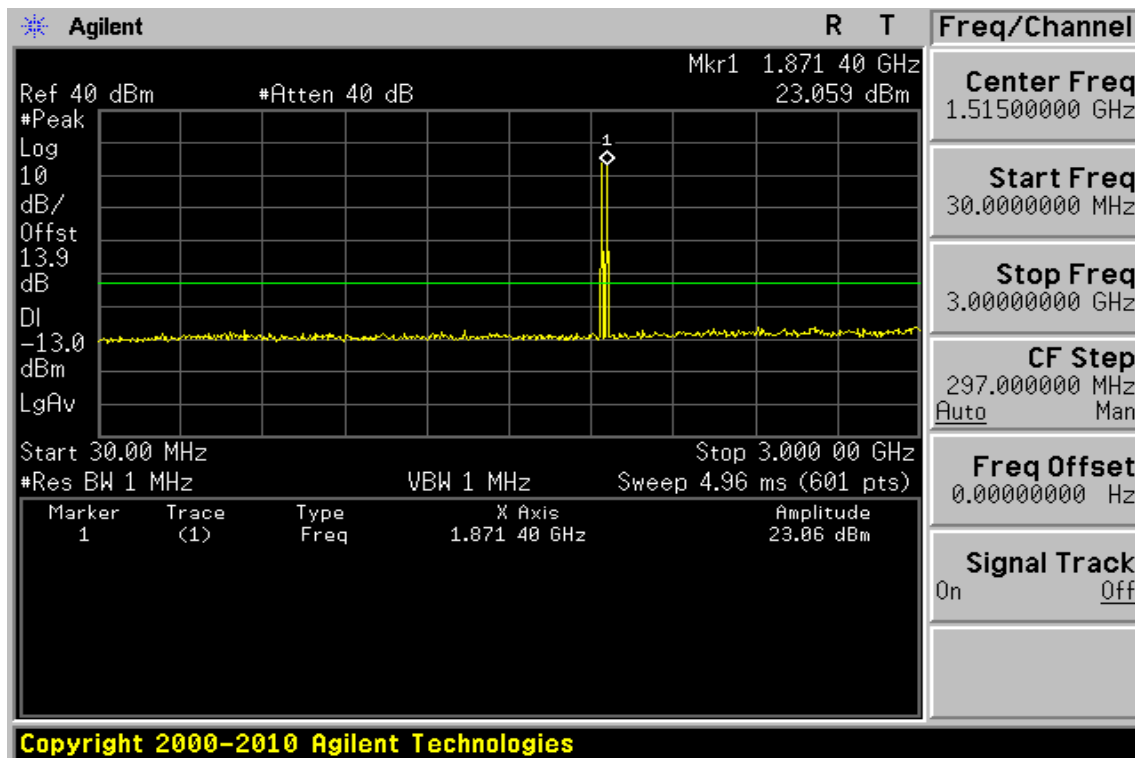
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Out of Band emission at antenna terminals – GPRS 1900 Channel Lowest



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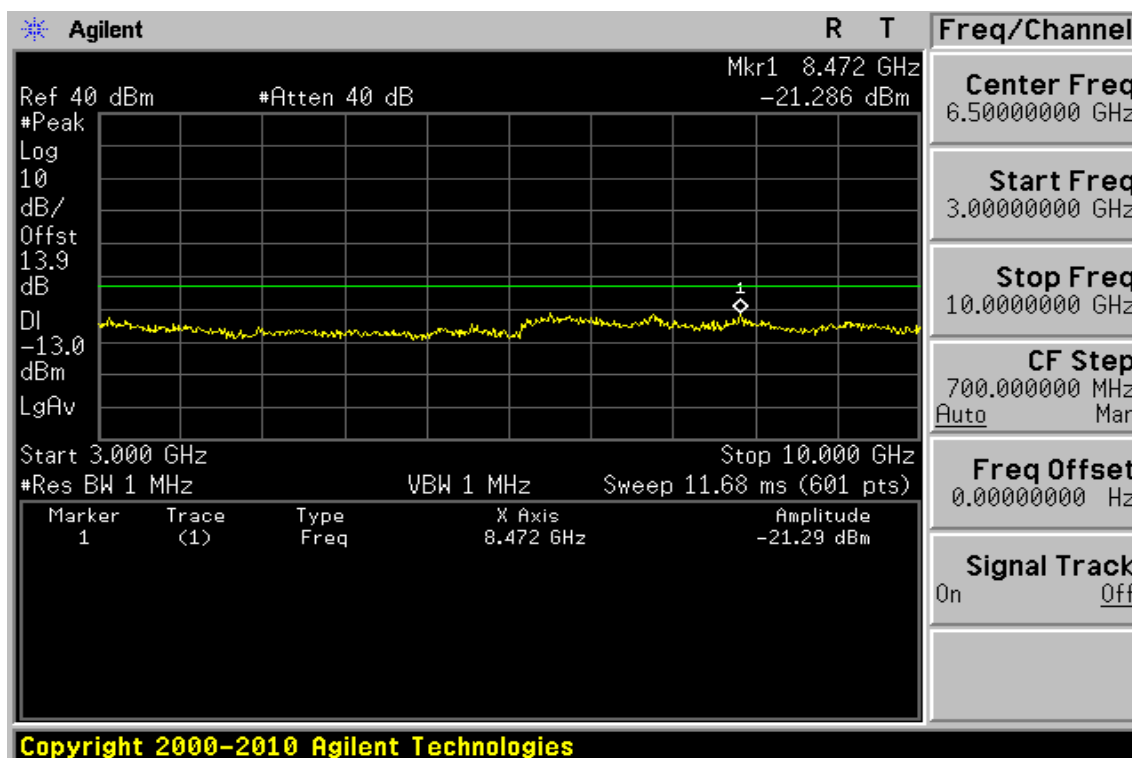
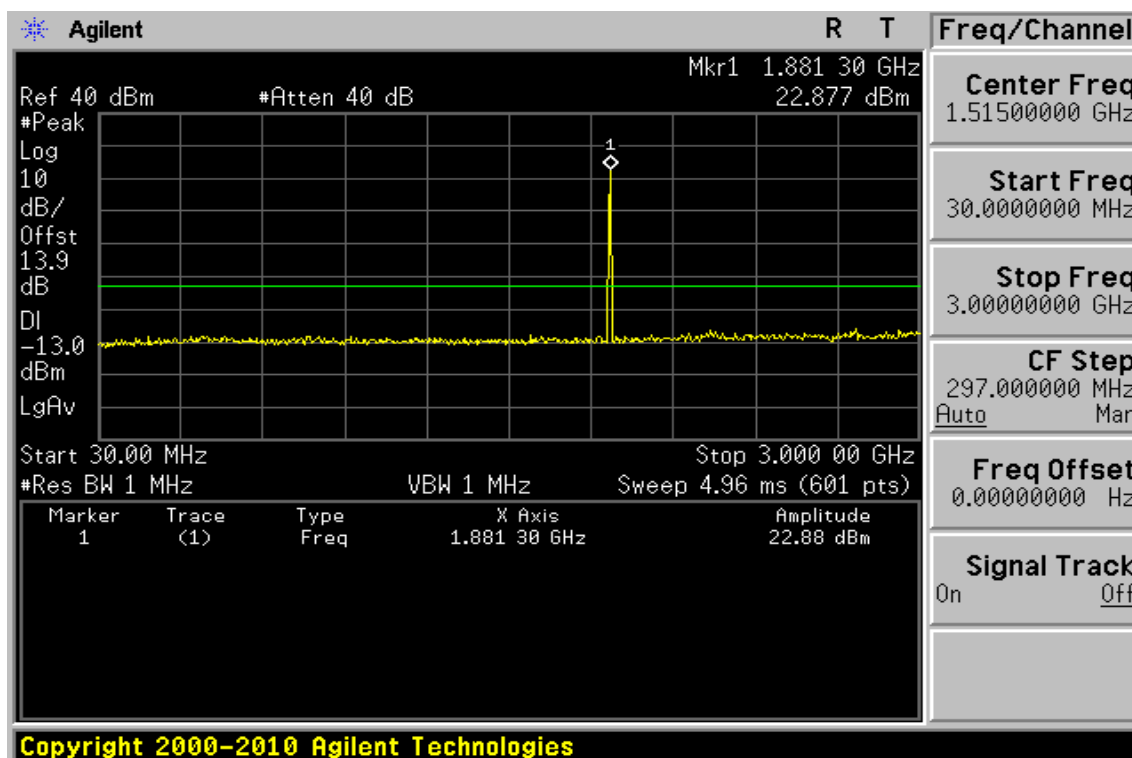
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Out of Band emission at antenna terminals – GPRS 1900 Channel Mid



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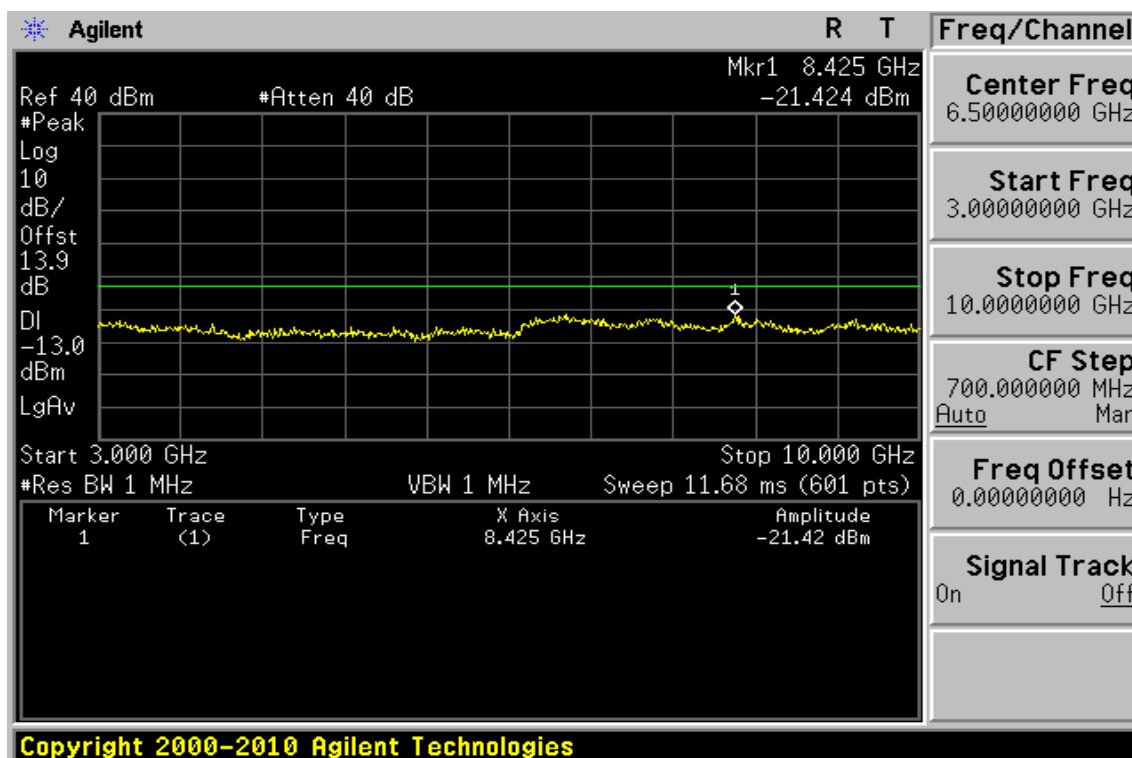
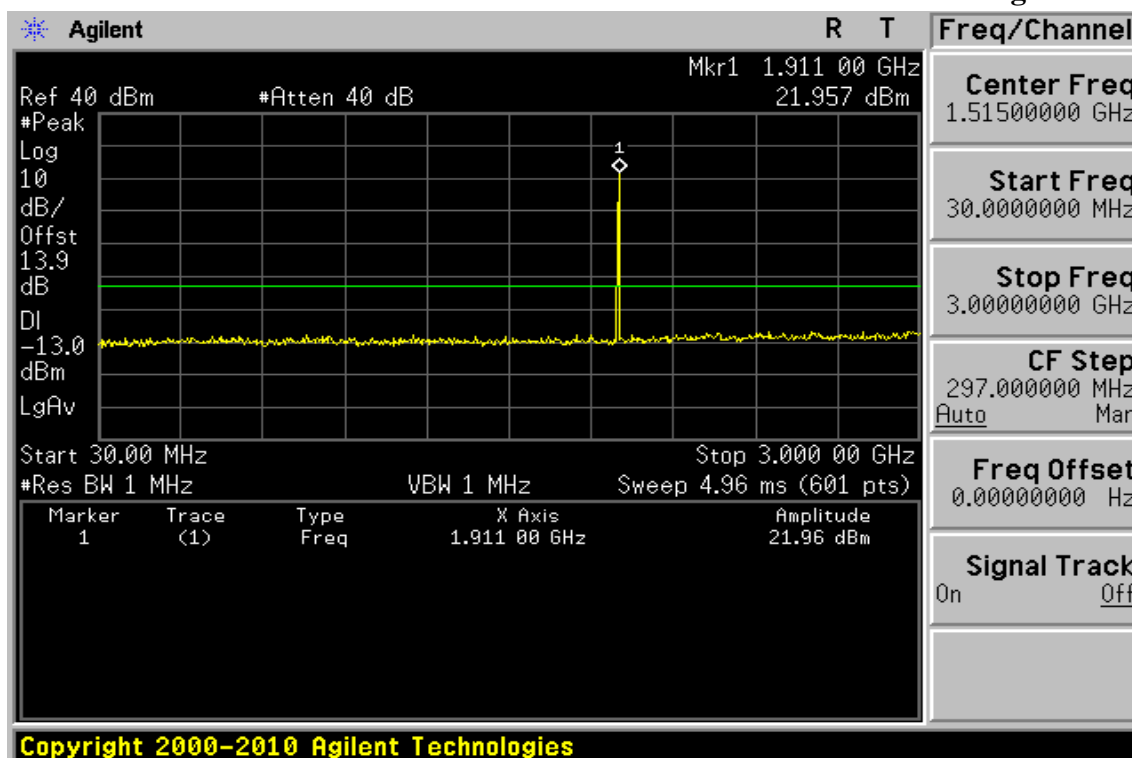
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Out of Band emission at antenna terminals – GPRS 1900 Channel Highest



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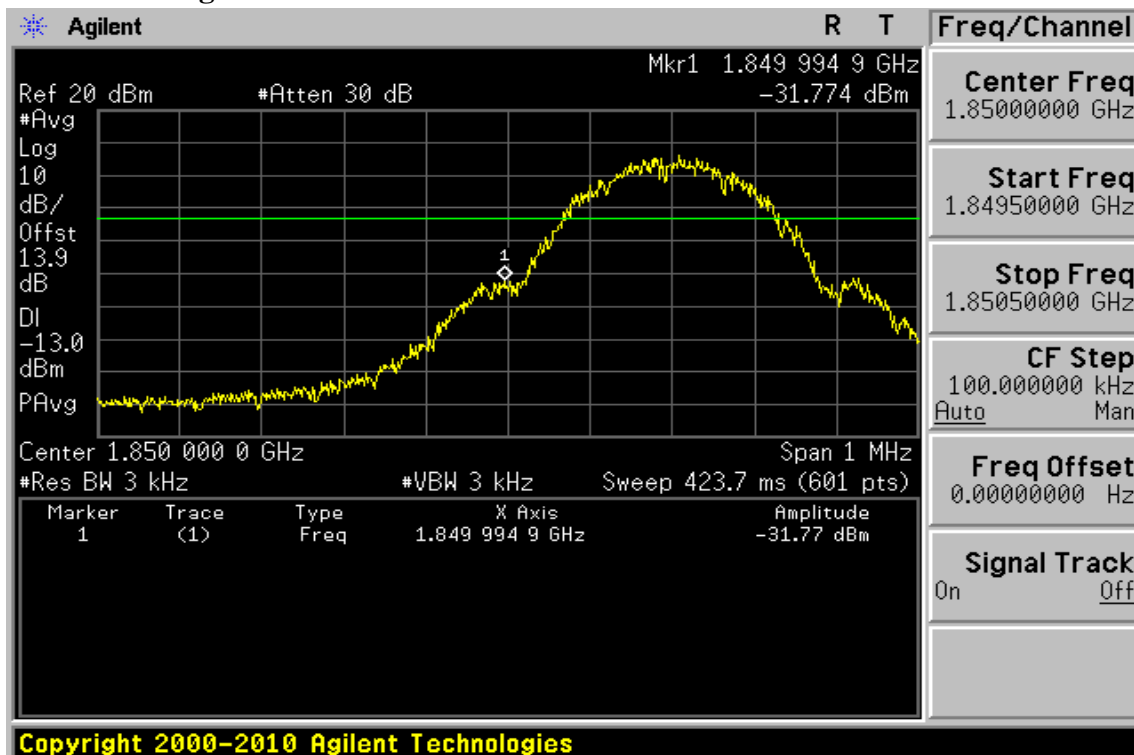
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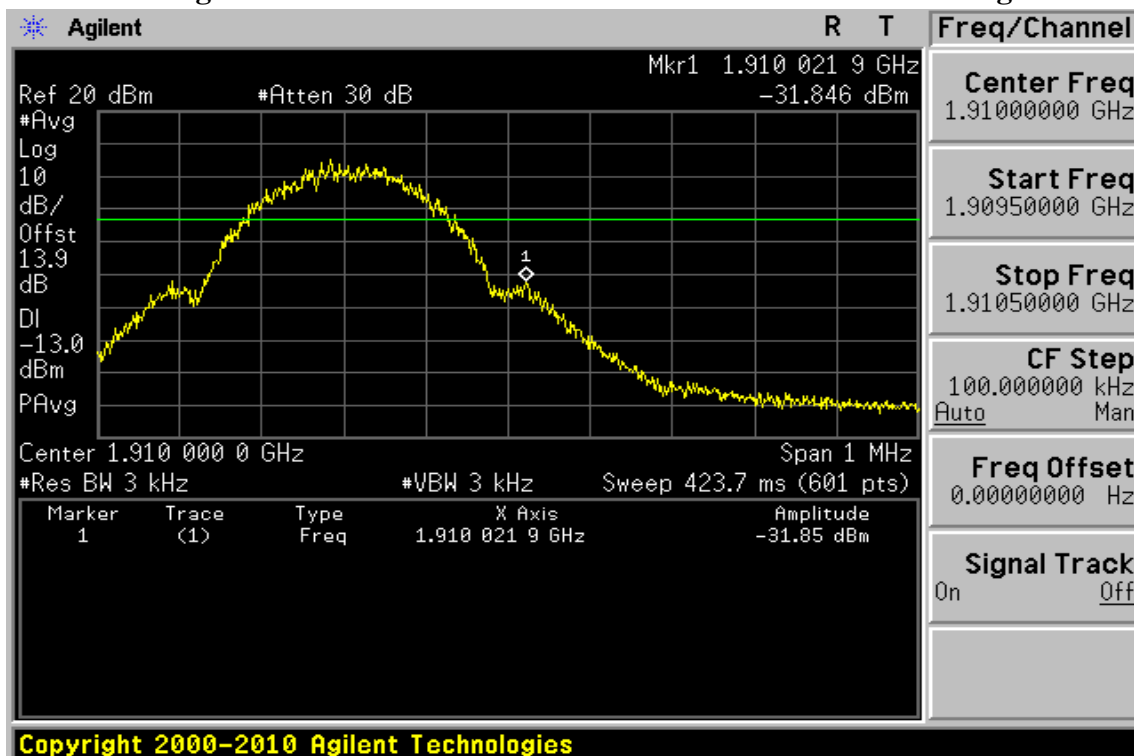
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Band edge emission at antenna terminals – GPRS 1900 Channel Lowest



Band edge emission at antenna terminals – GPRS 1900 Channel Highest



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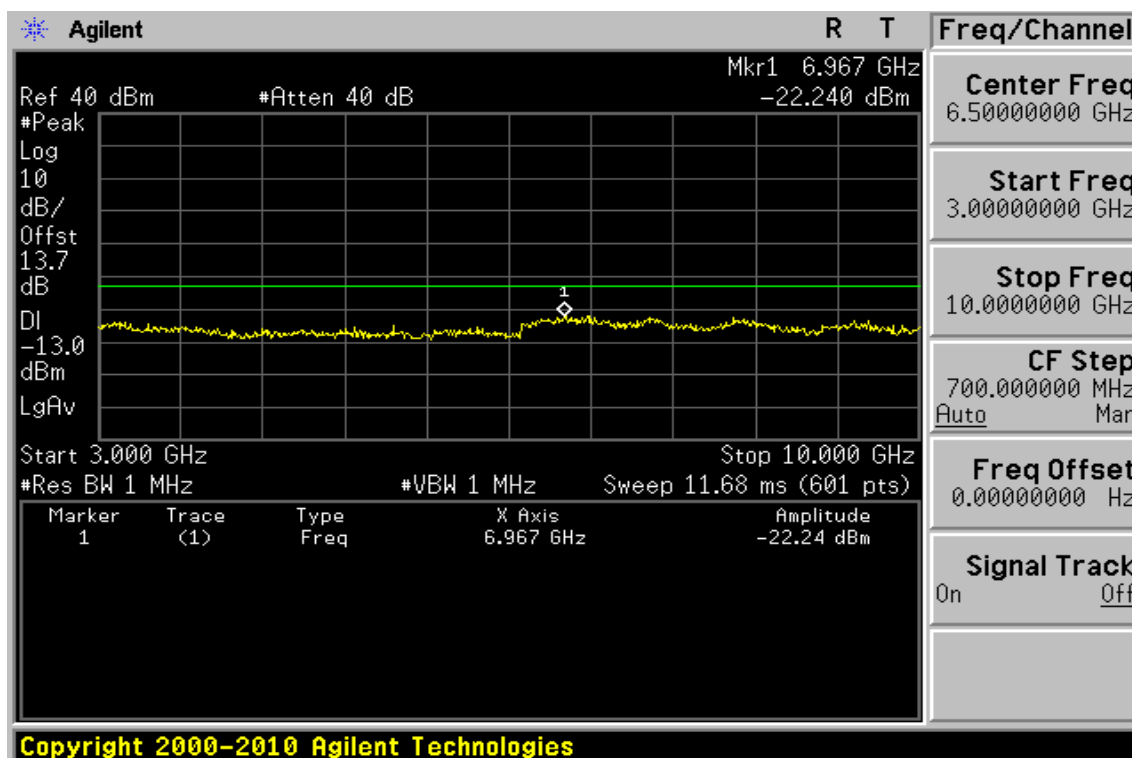
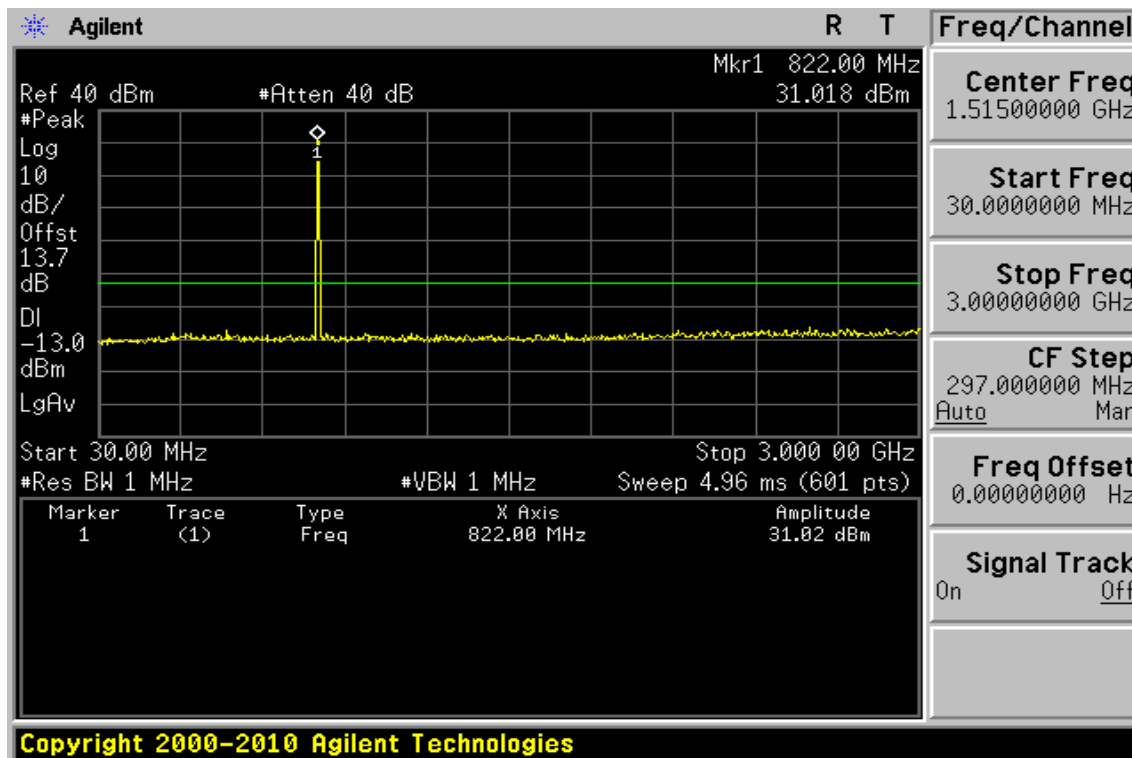
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Out of Band emission at antenna terminals – EDGE 850 Channel Lowest



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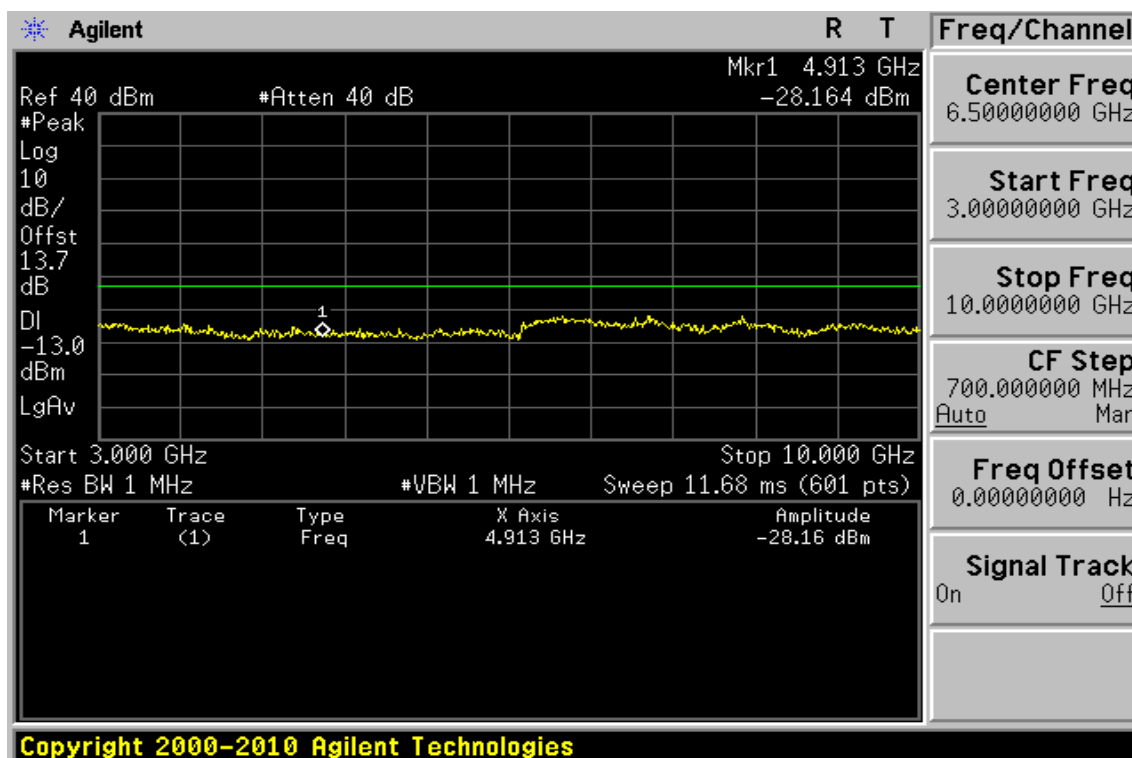
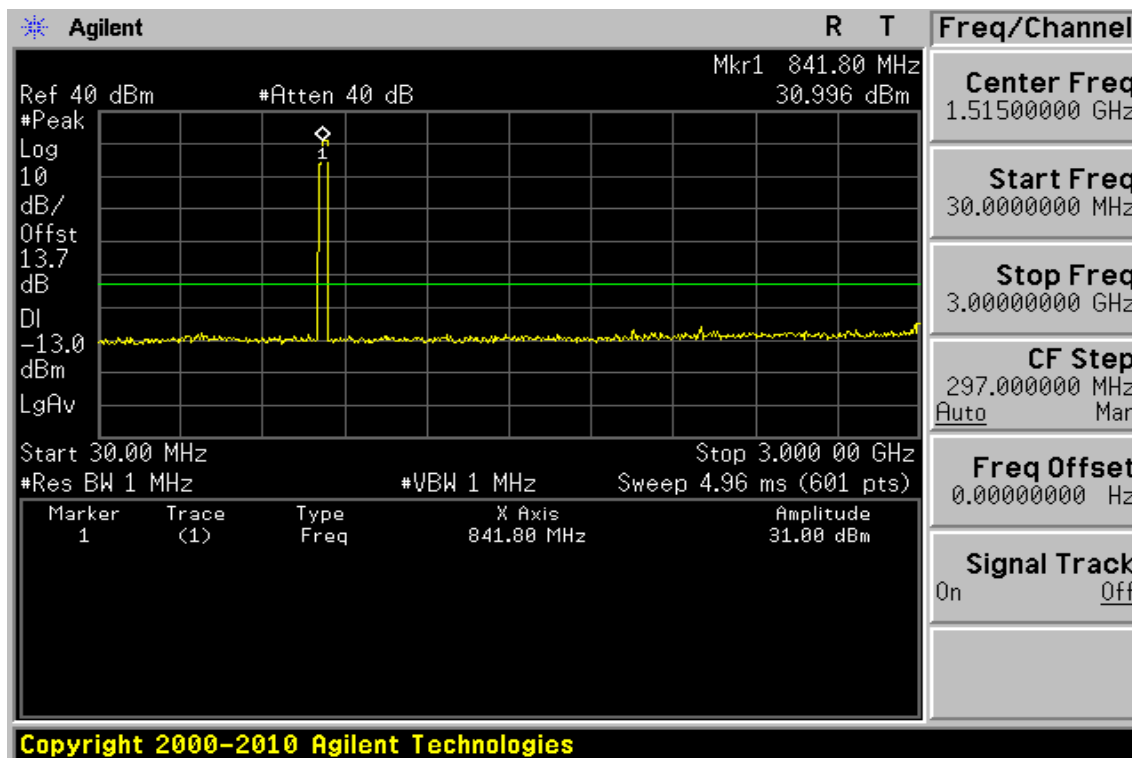
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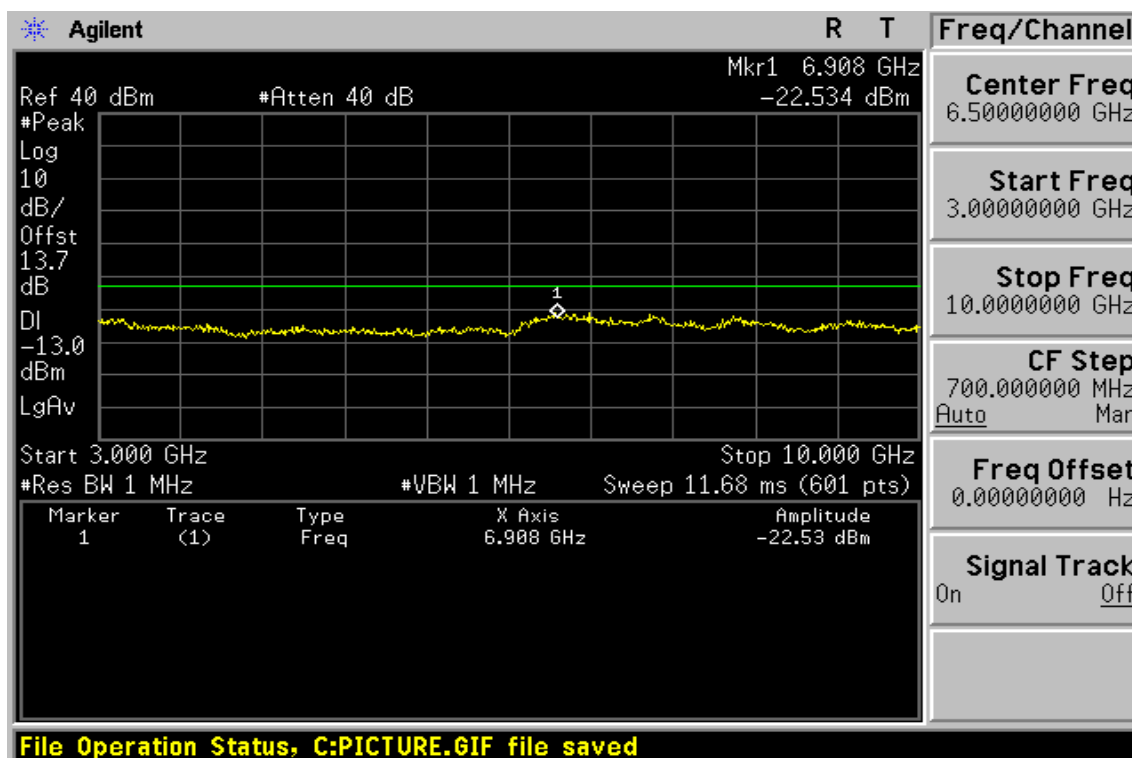
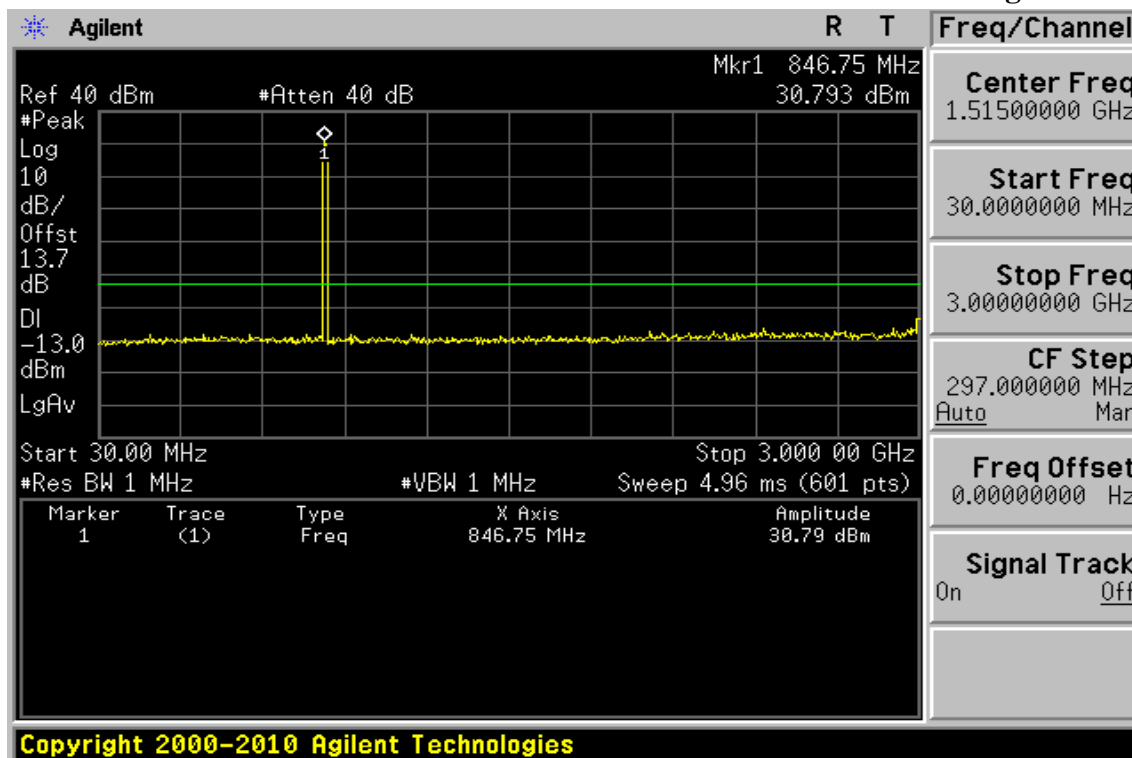
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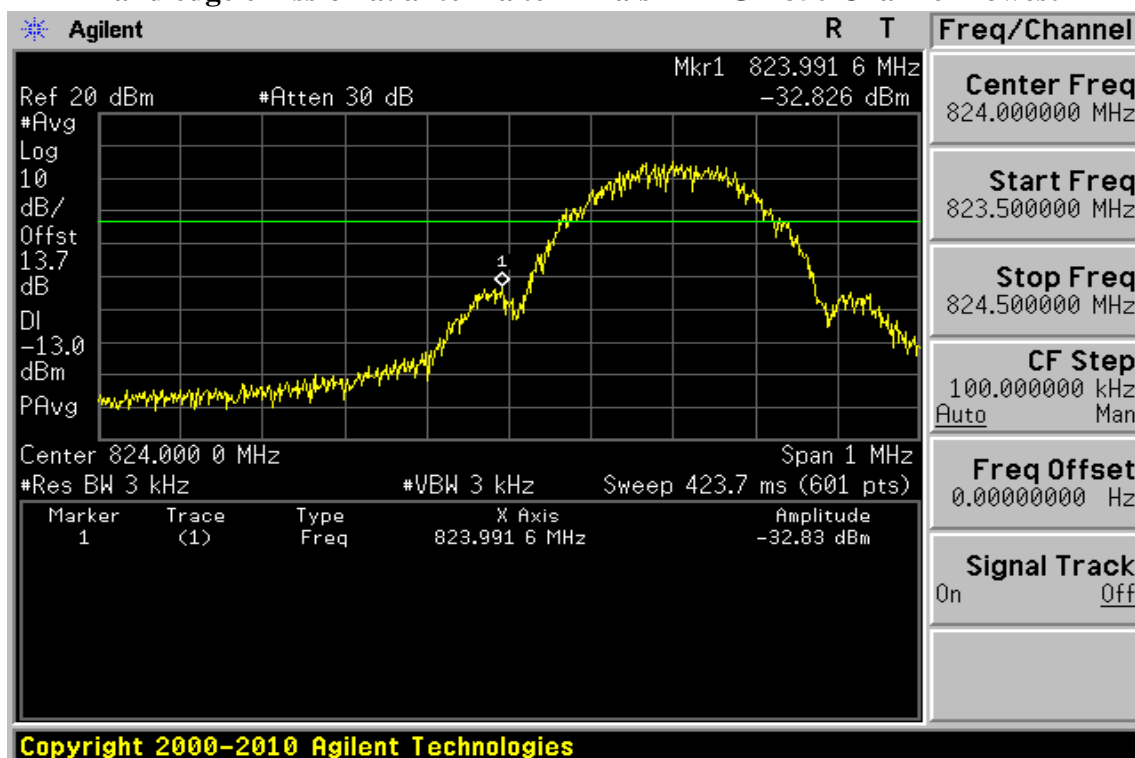
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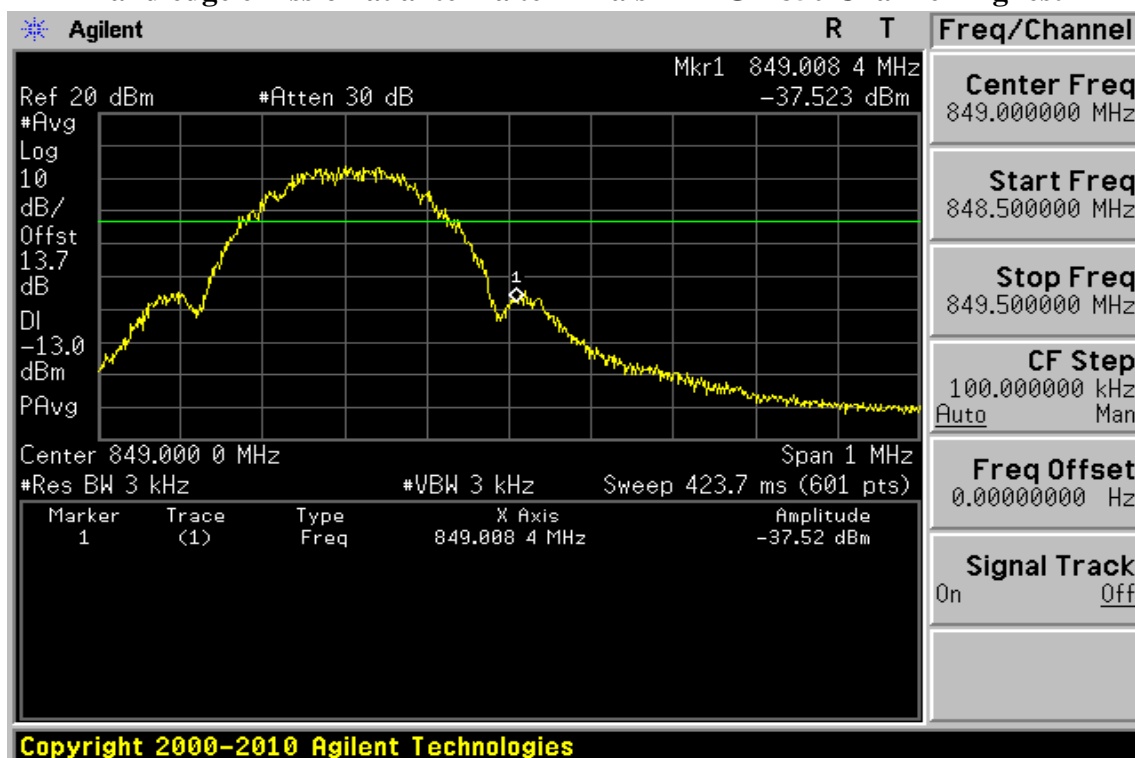
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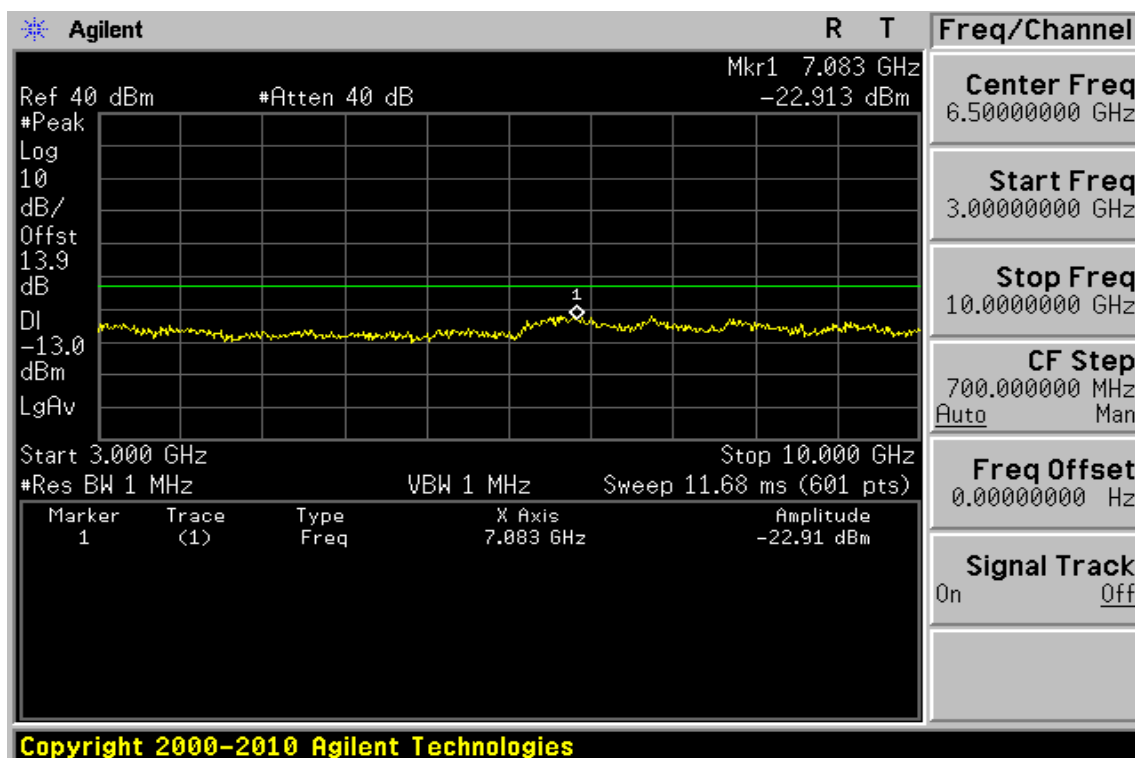
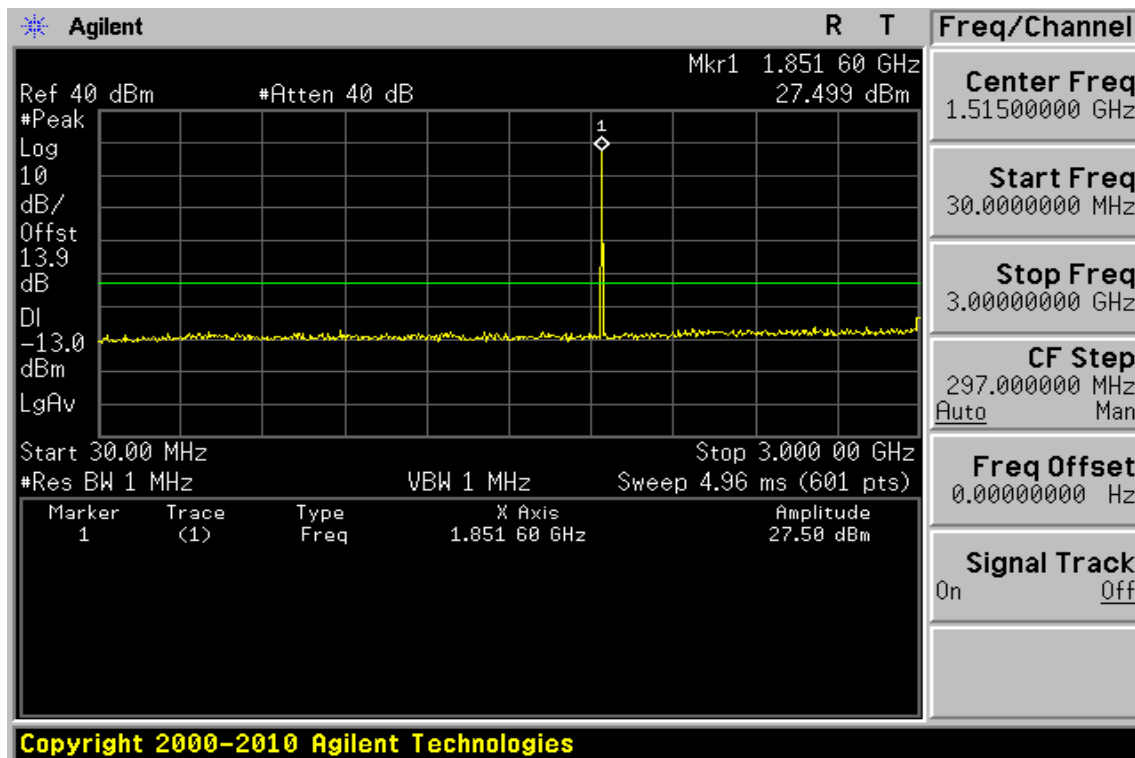
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Out of Band emission at antenna terminals – EDGE 1900 Channel Lowest



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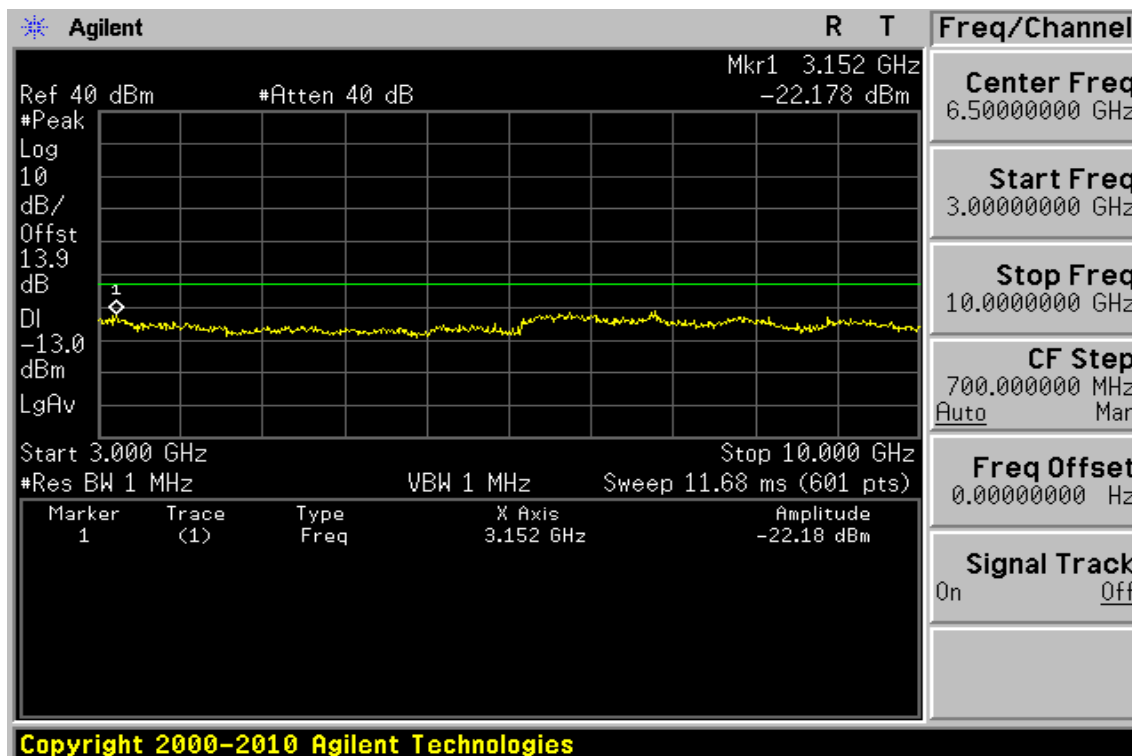
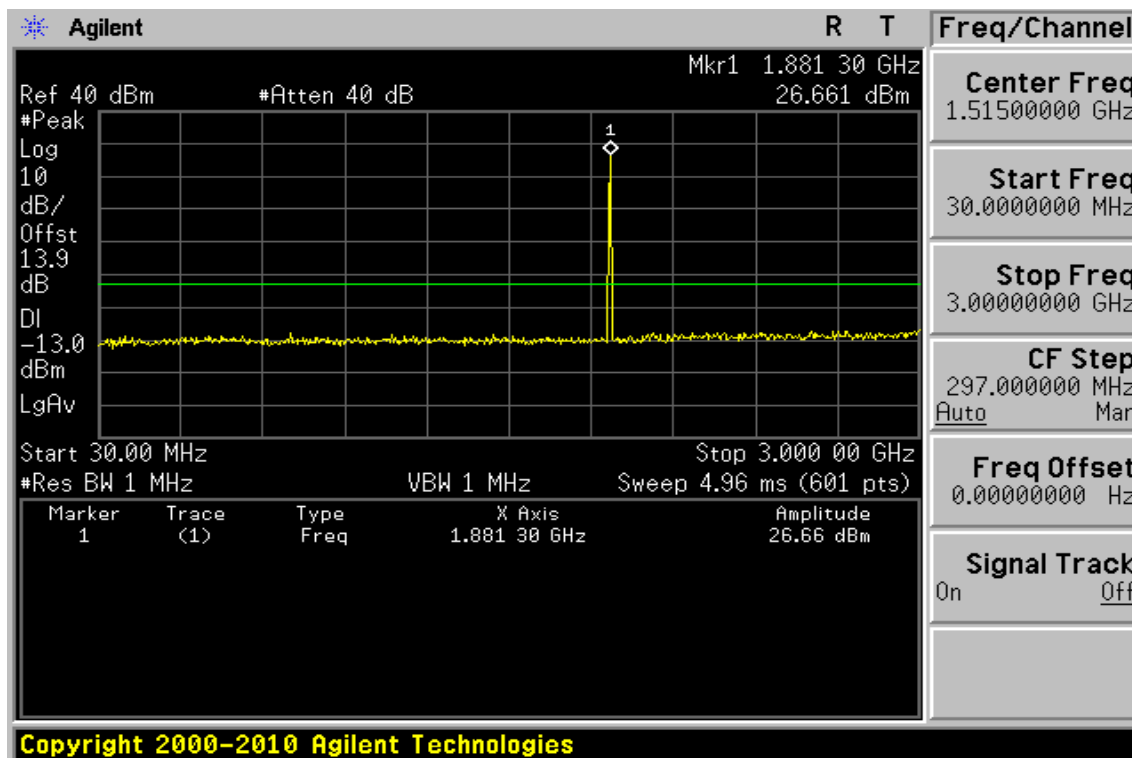
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Out of Band emission at antenna terminals – EDGE 1900 Channel Mid



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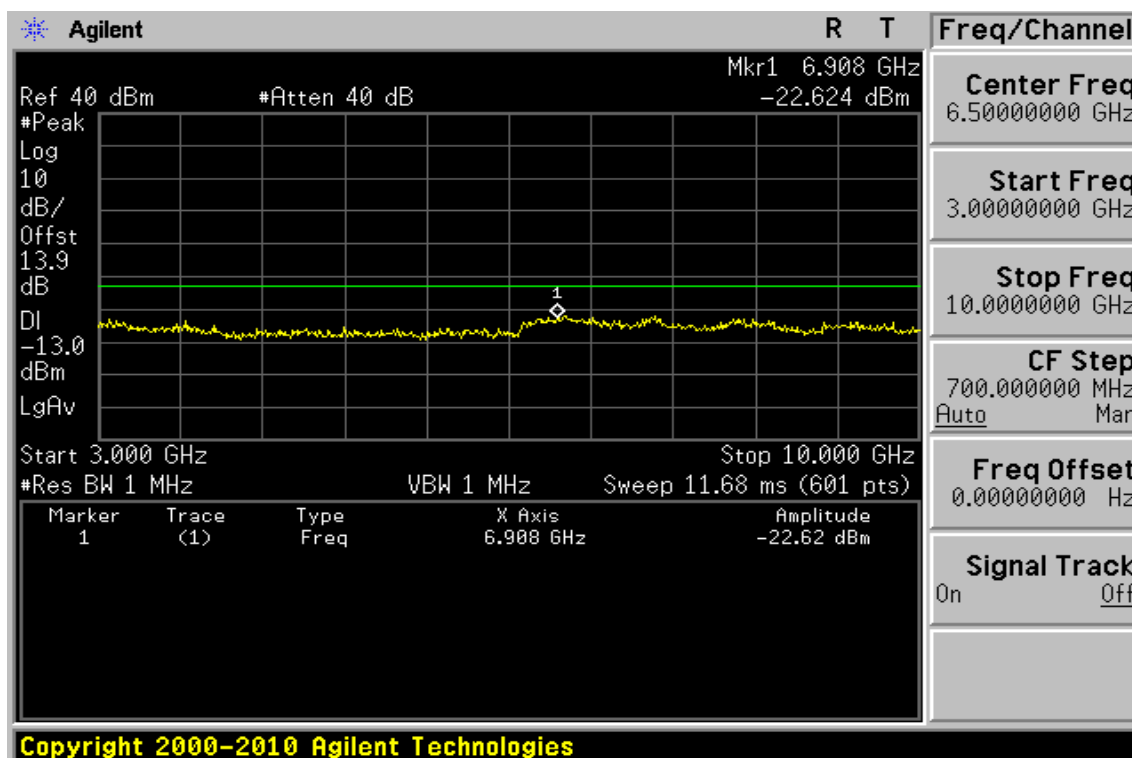
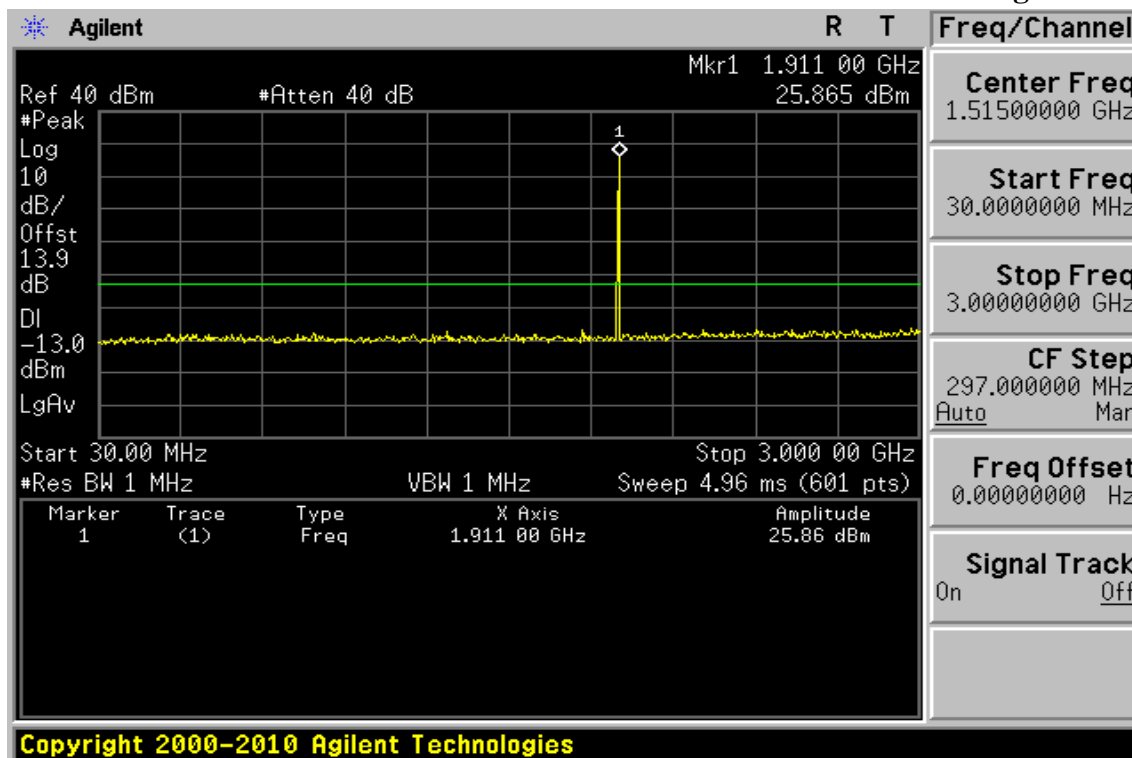
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Out of Band emission at antenna terminals – EDGE 1900 Channel Highest



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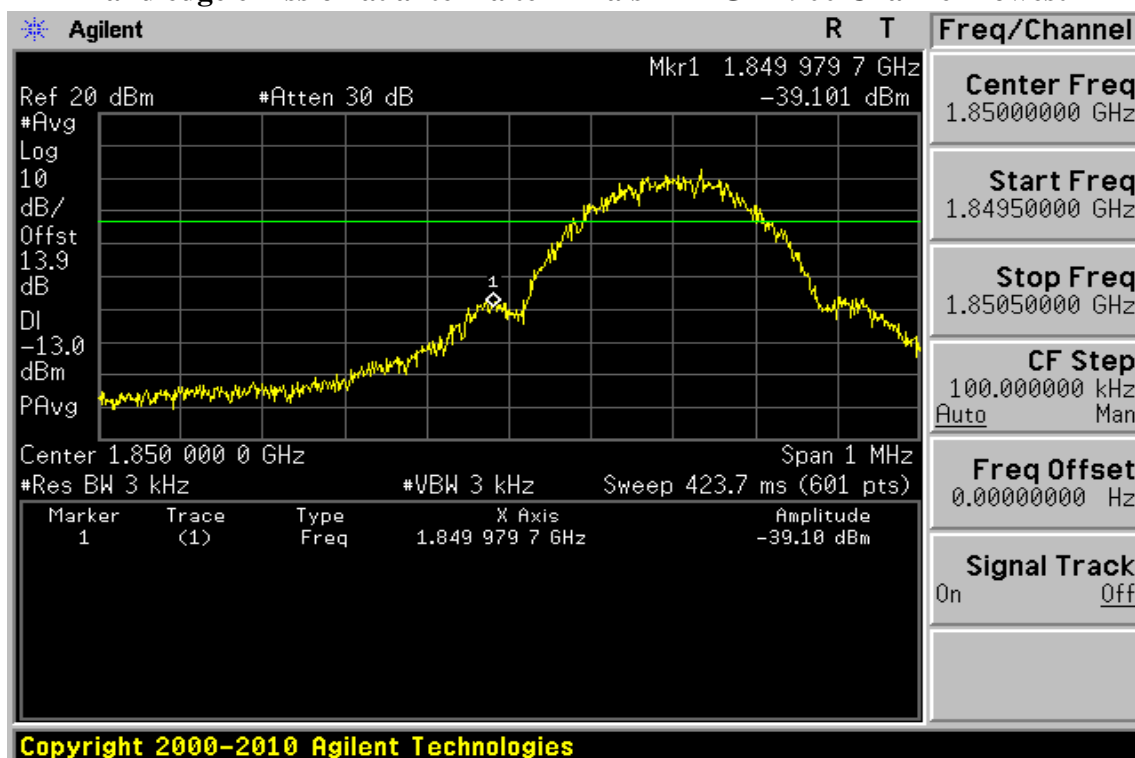
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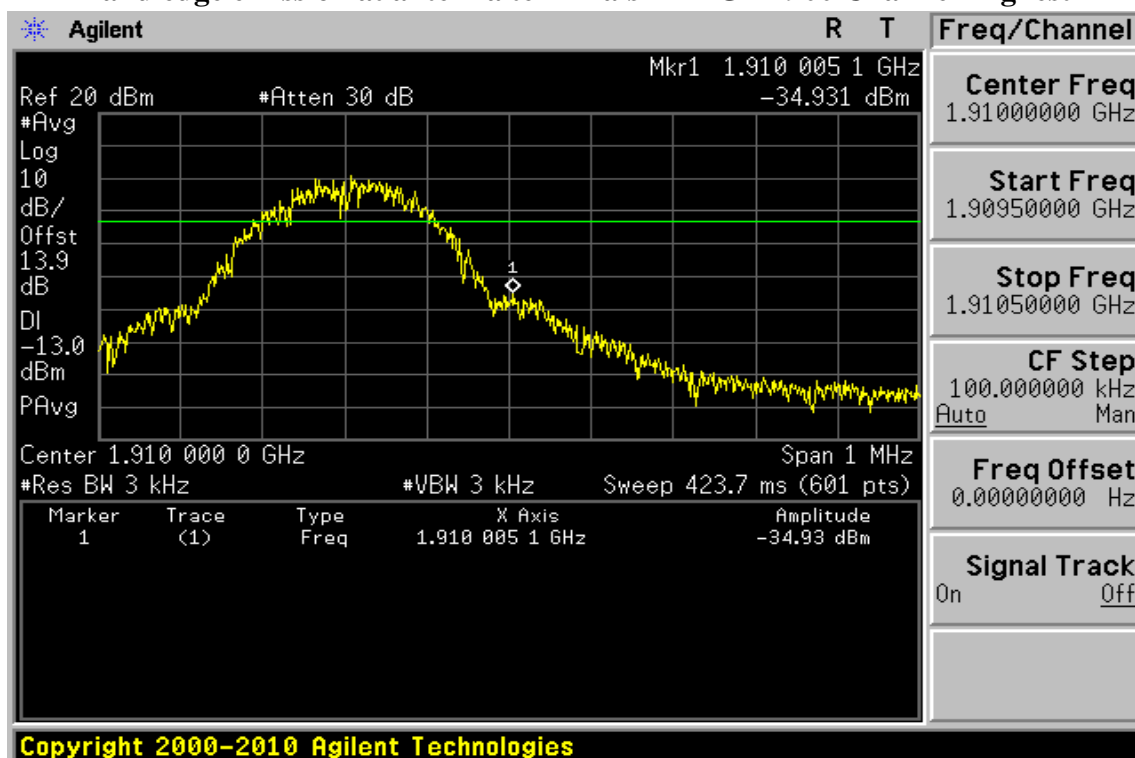
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Band edge emission at antenna terminals – EDGE 1900 Channel Lowest



Band edge emission at antenna terminals – EDGE 1900 Channel Highest



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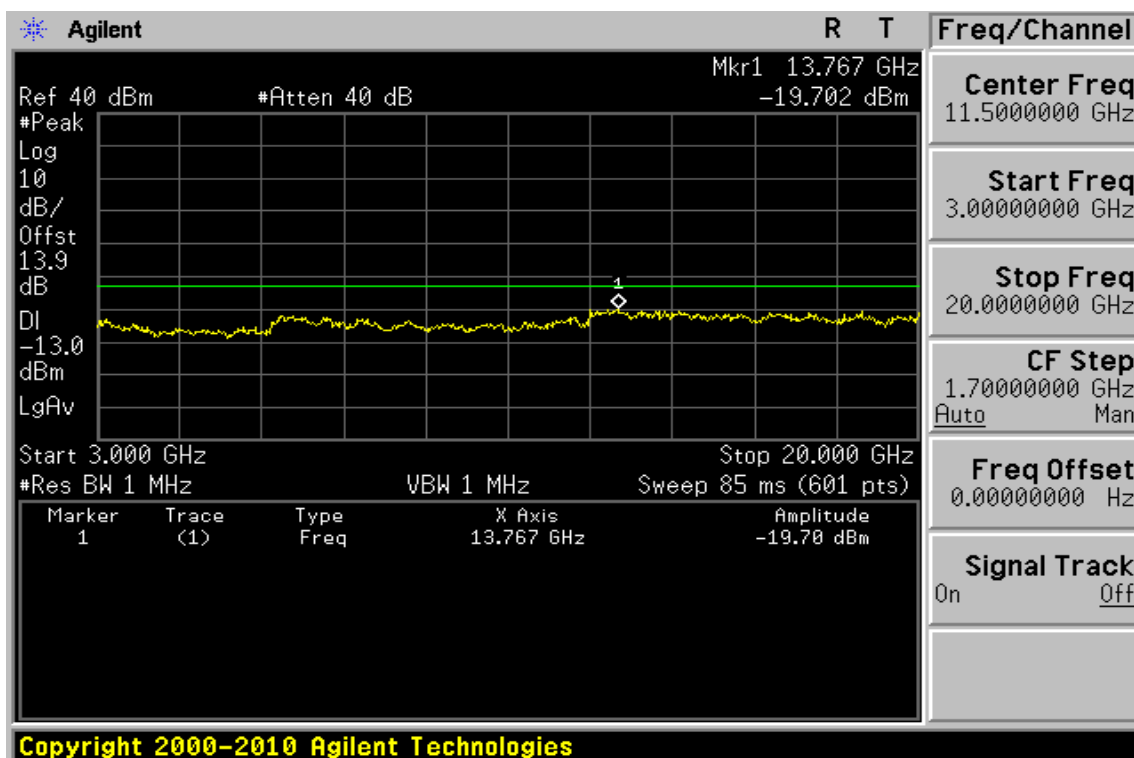
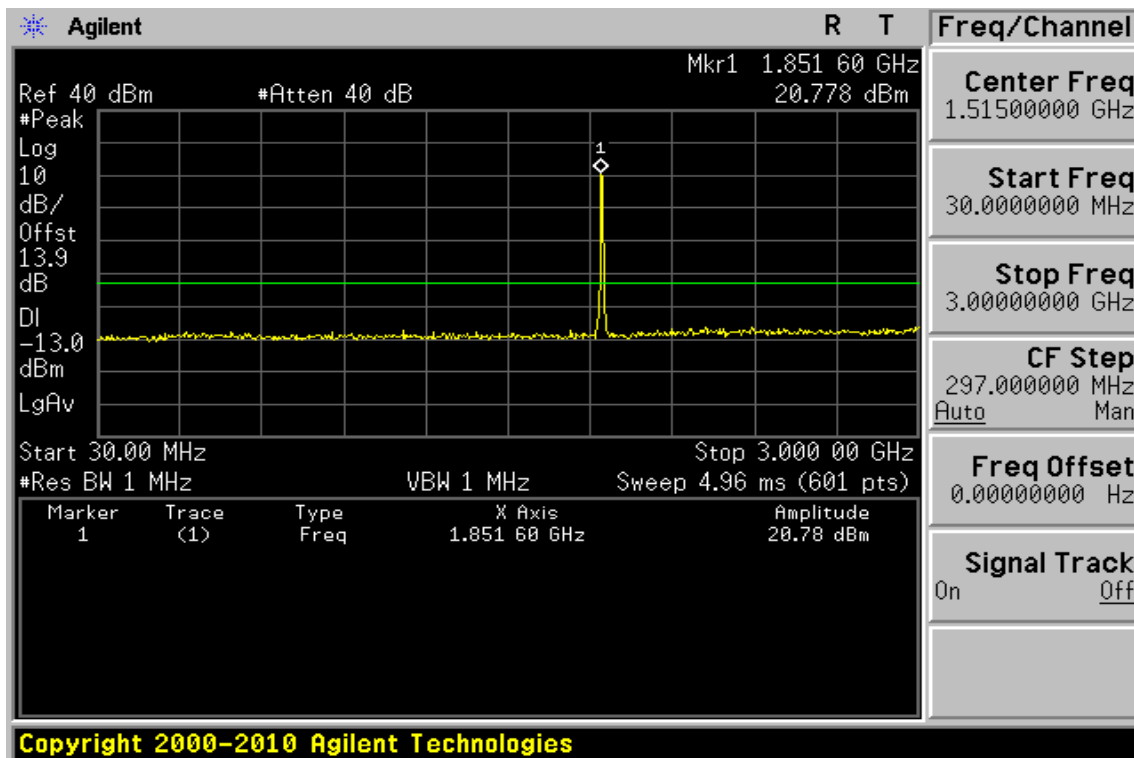
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Out of Band emission at antenna terminals – HSUPA II Channel Lowest



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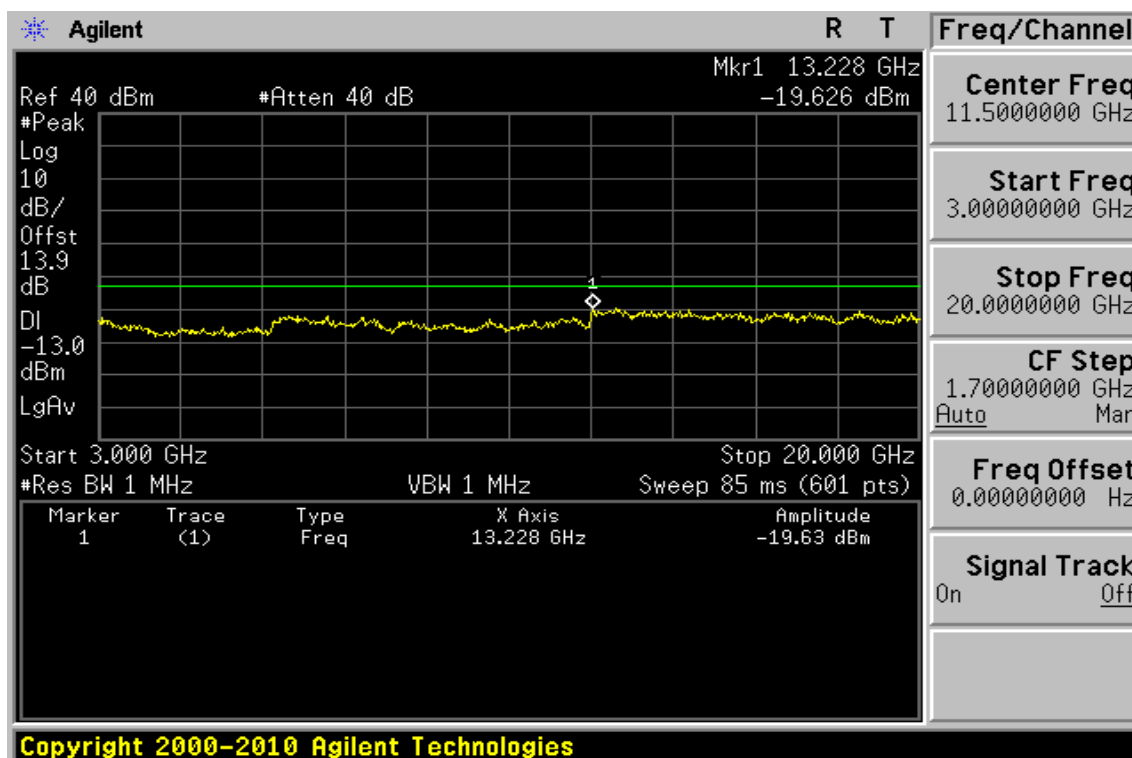
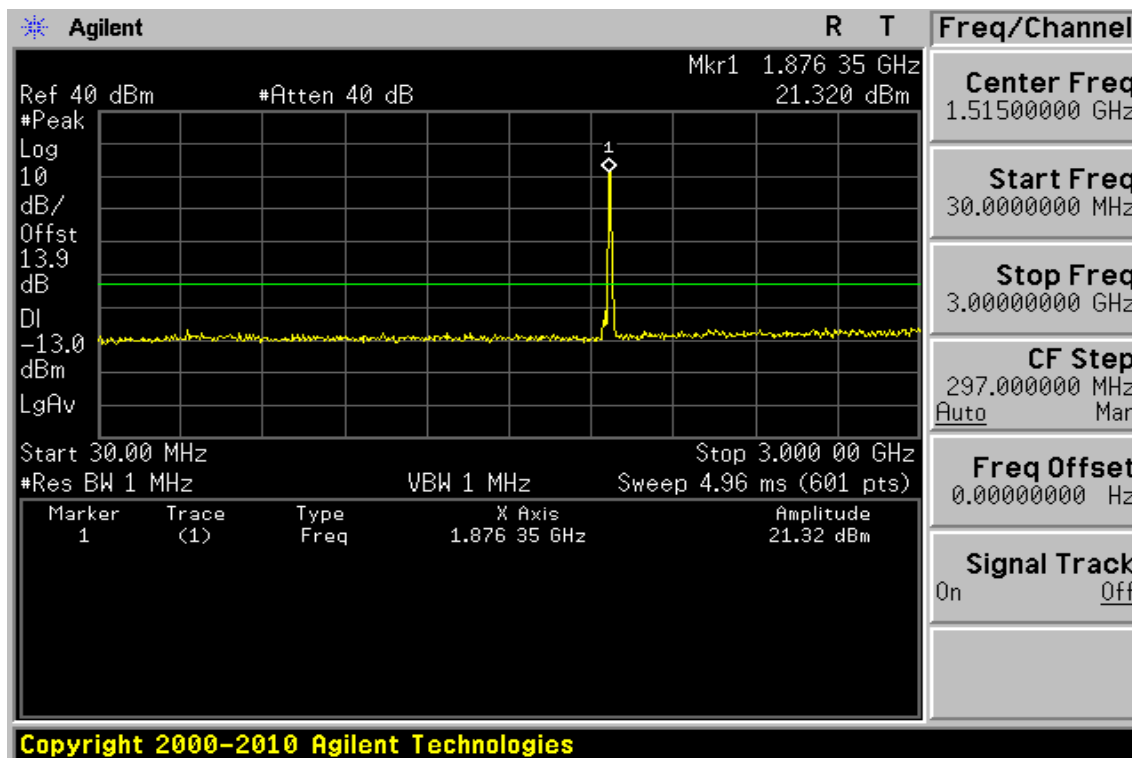
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Out of Band emission at antenna terminals – HSUPA II Channel Mid



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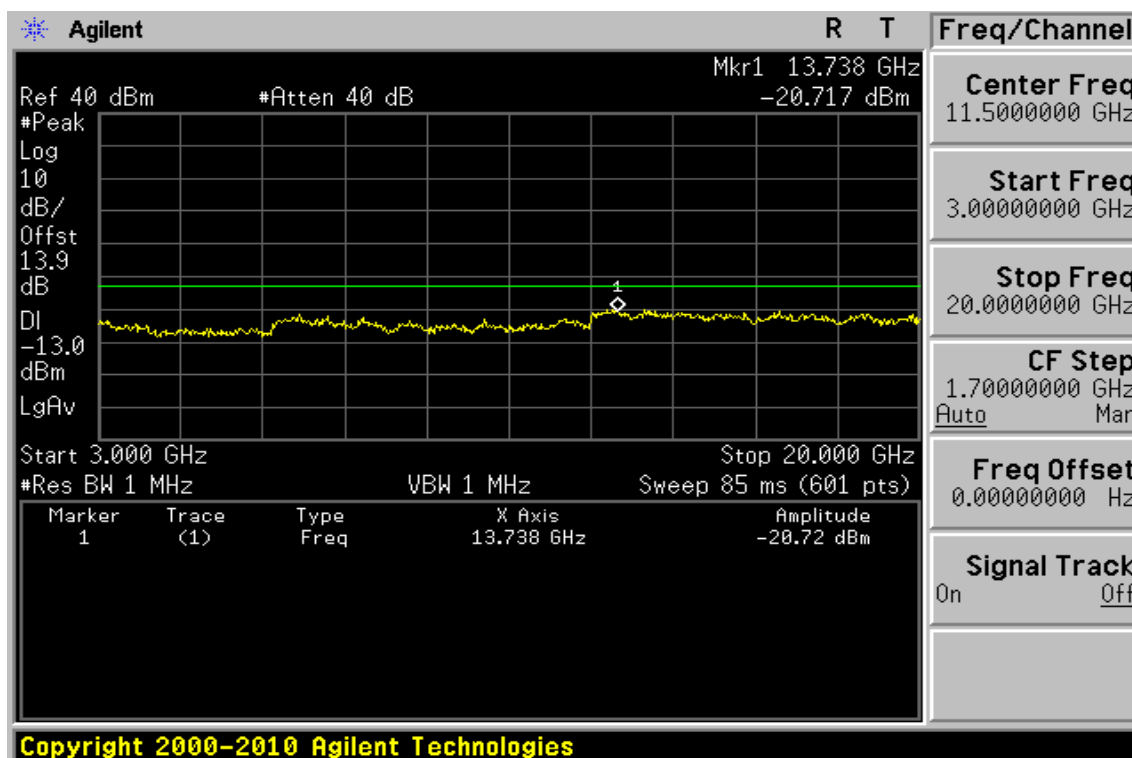
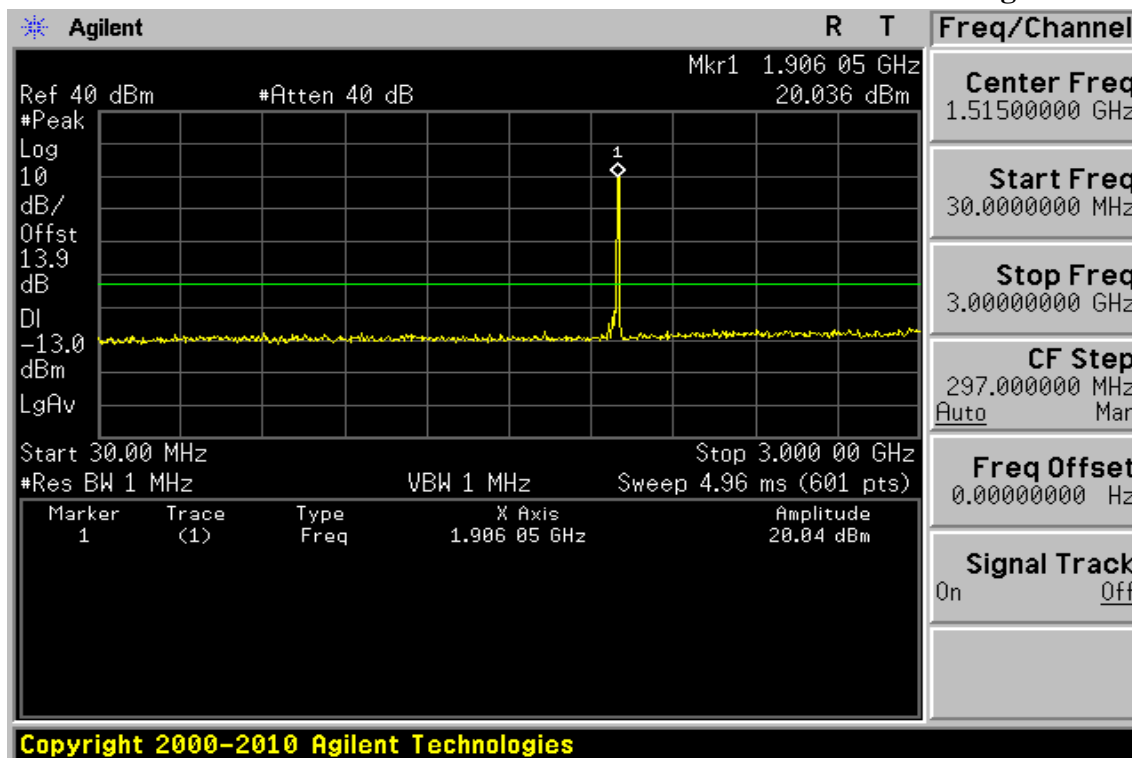
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Out of Band emission at antenna terminals – HSUPA II Channel Highest



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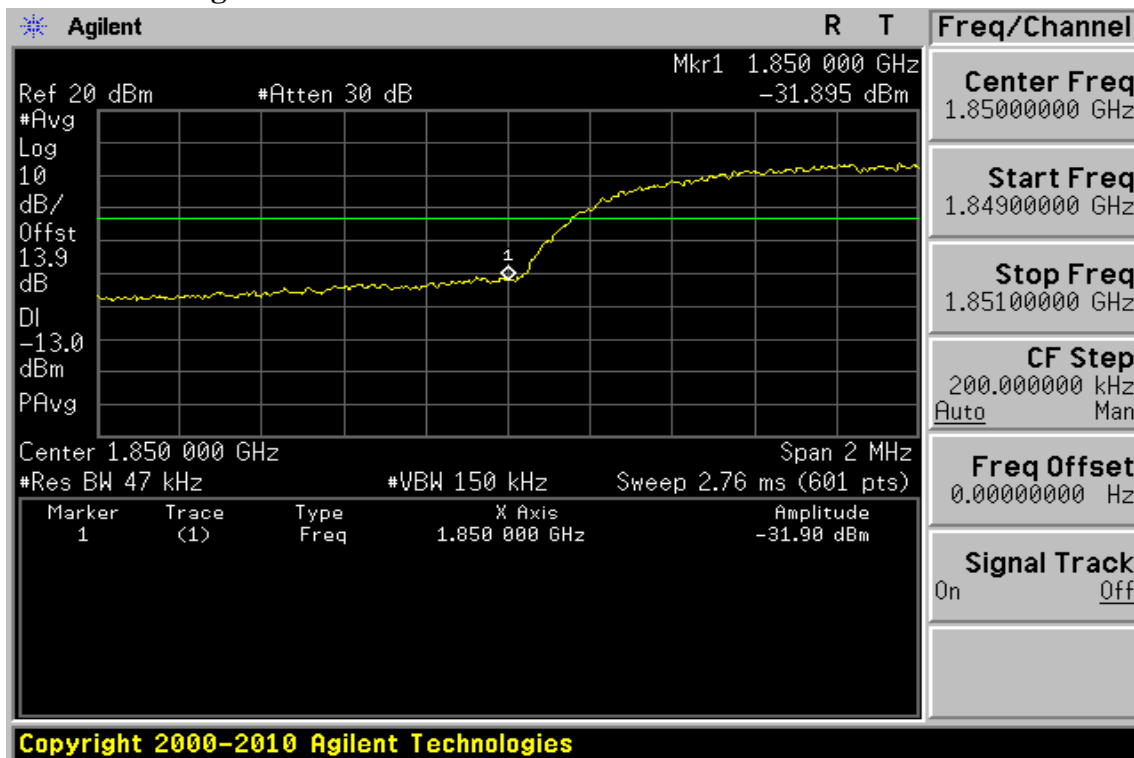
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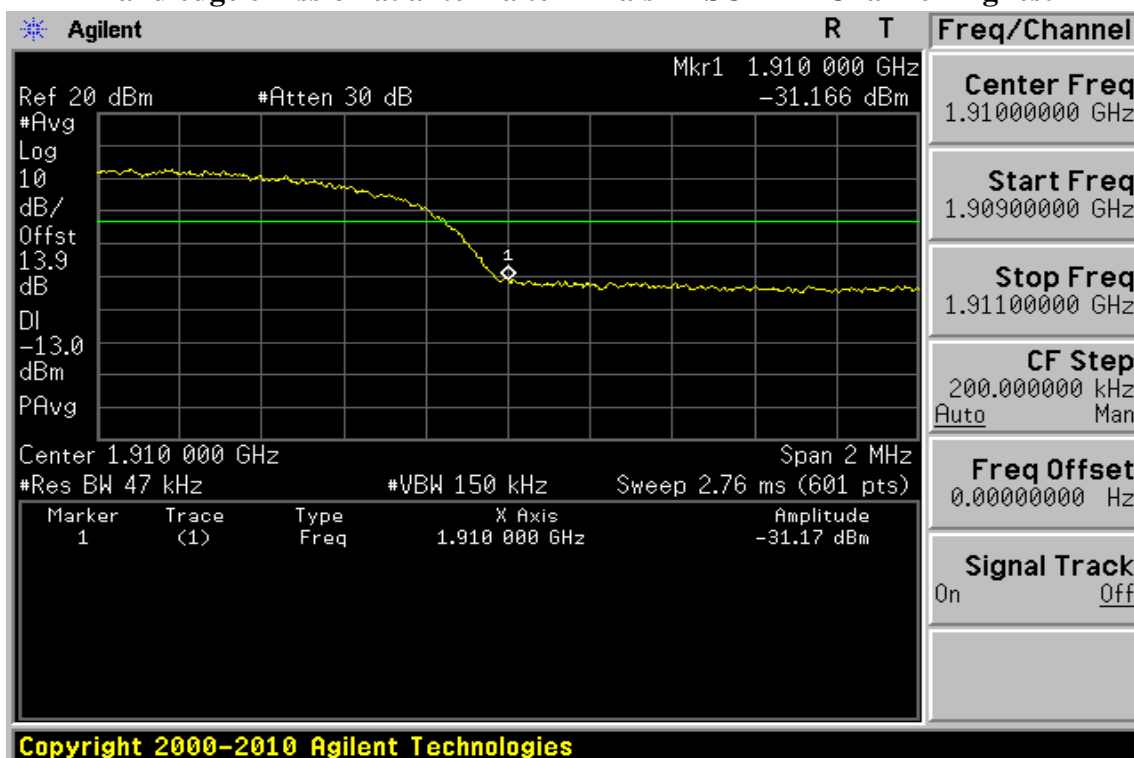
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Band edge emission at antenna terminals –HSUPA II Channel Lowest



Band edge emission at antenna terminals –HSUPA II Channel Highest



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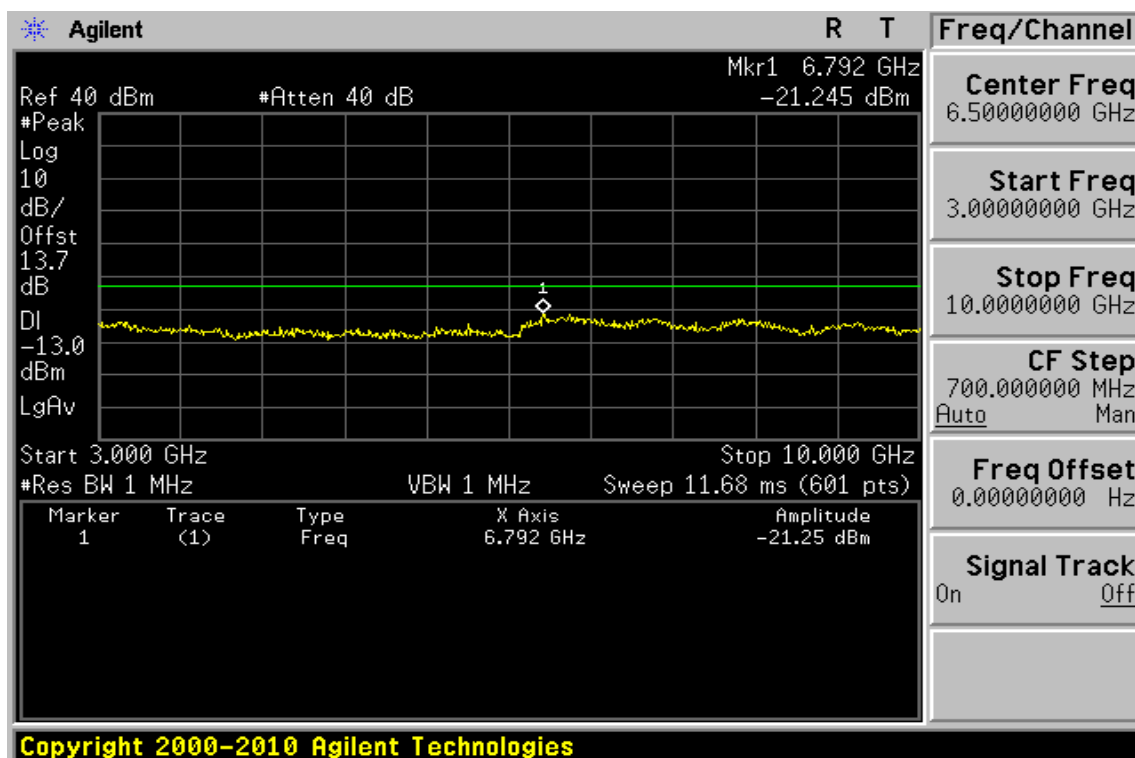
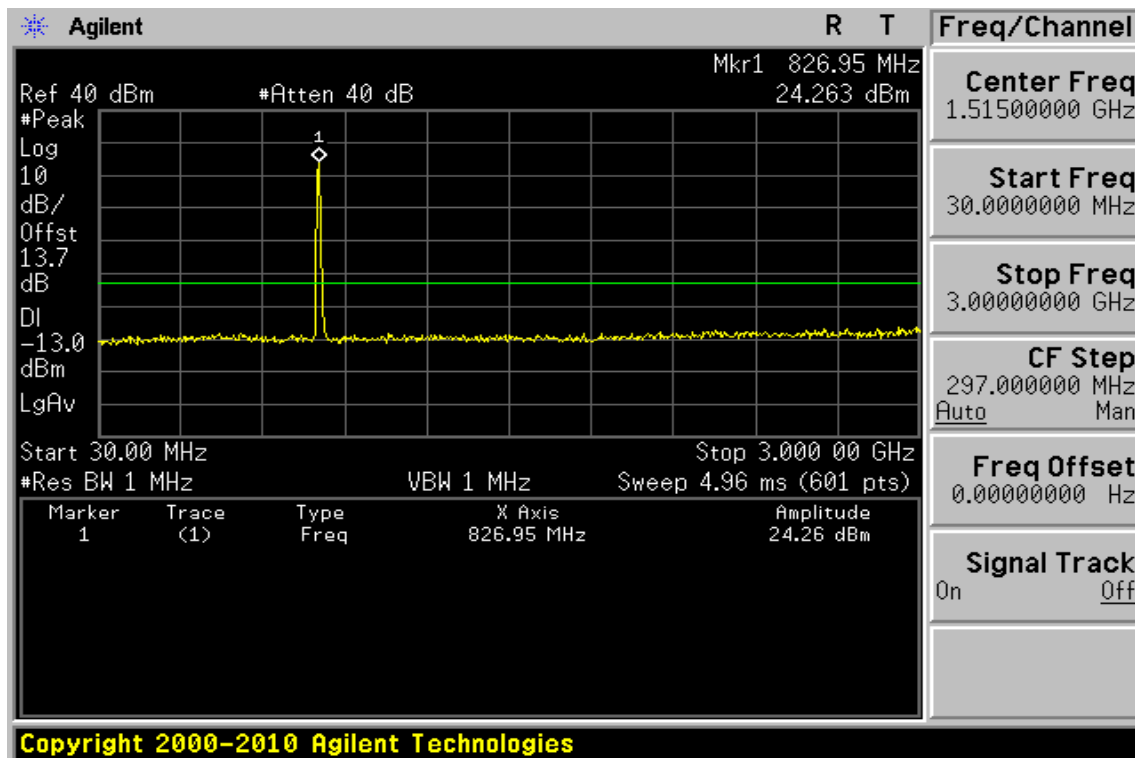
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Out of Band emission at antenna terminals –HSUPA V Channel Lowest



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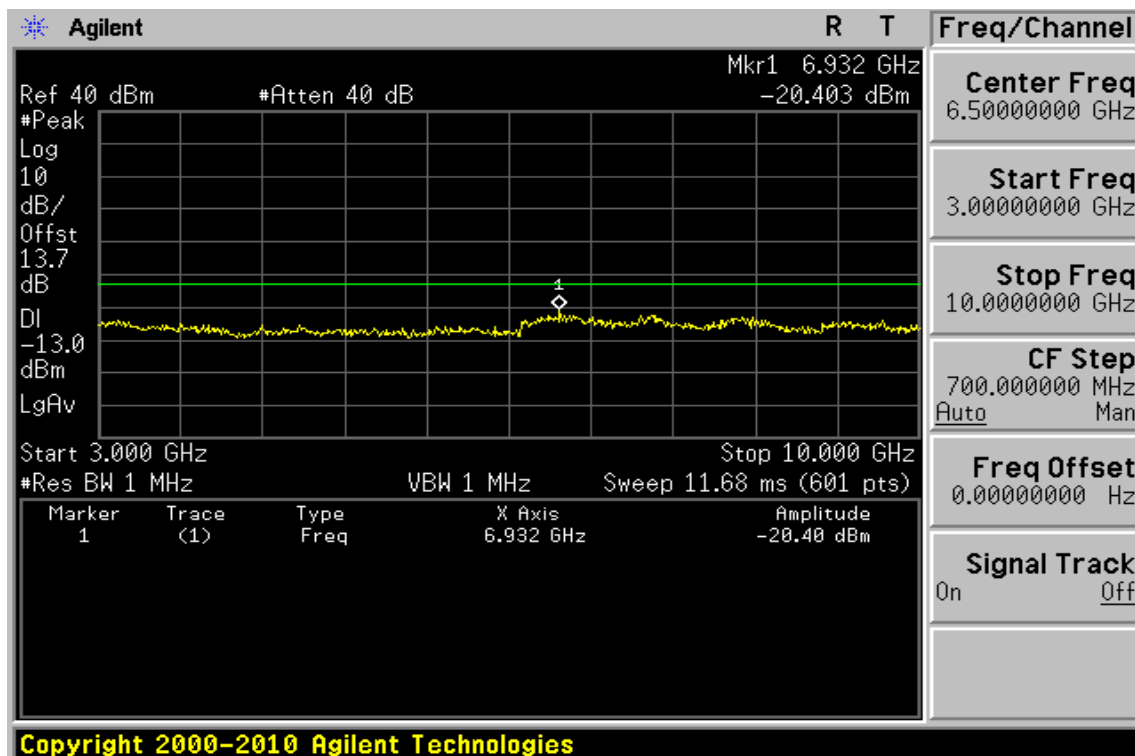
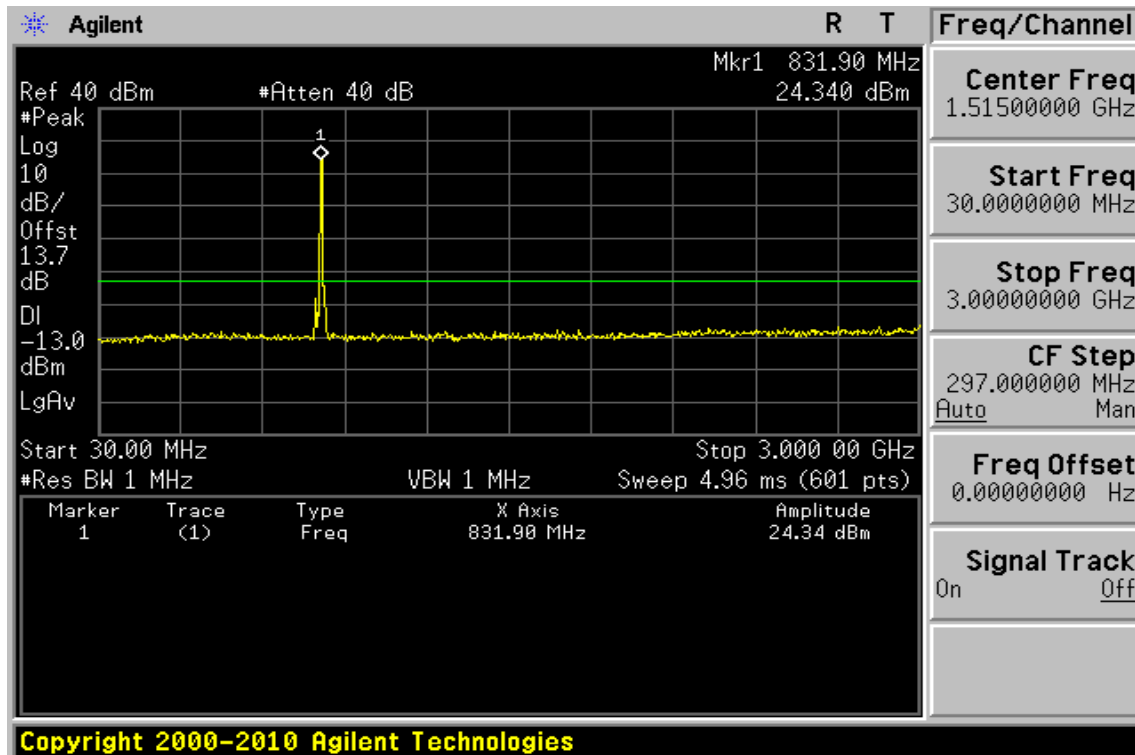
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Out of Band emission at antenna terminals –HSUPA V Channel Mid



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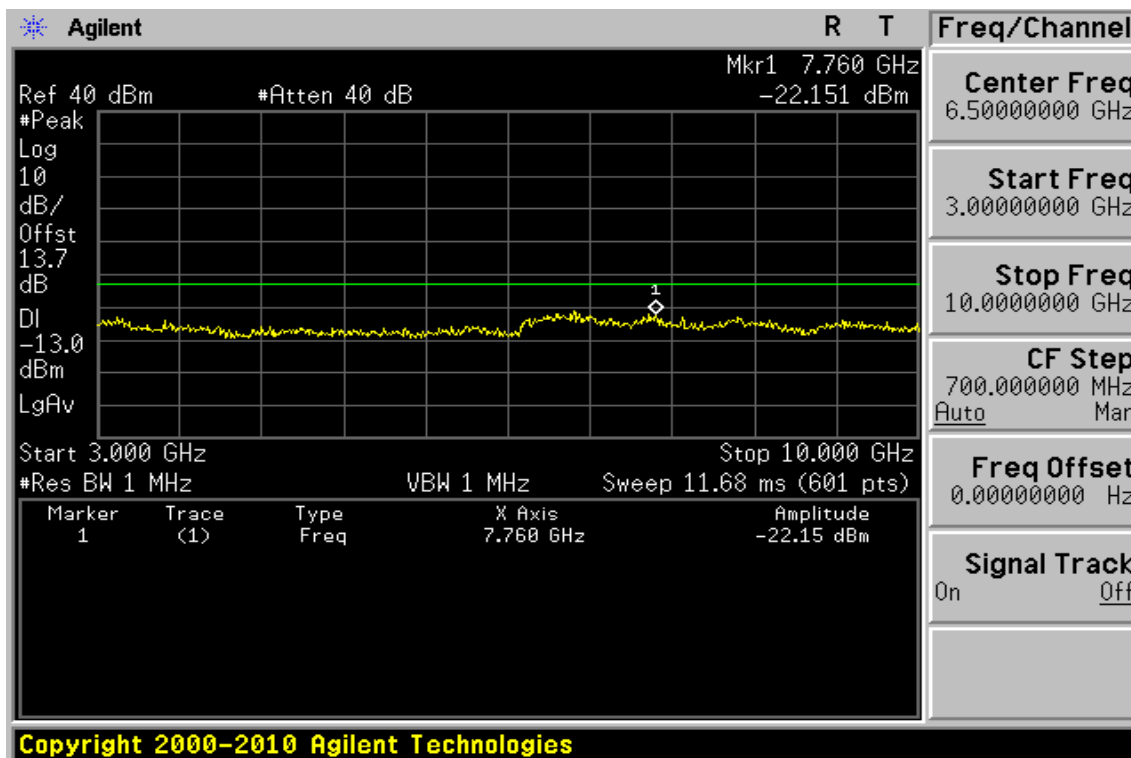
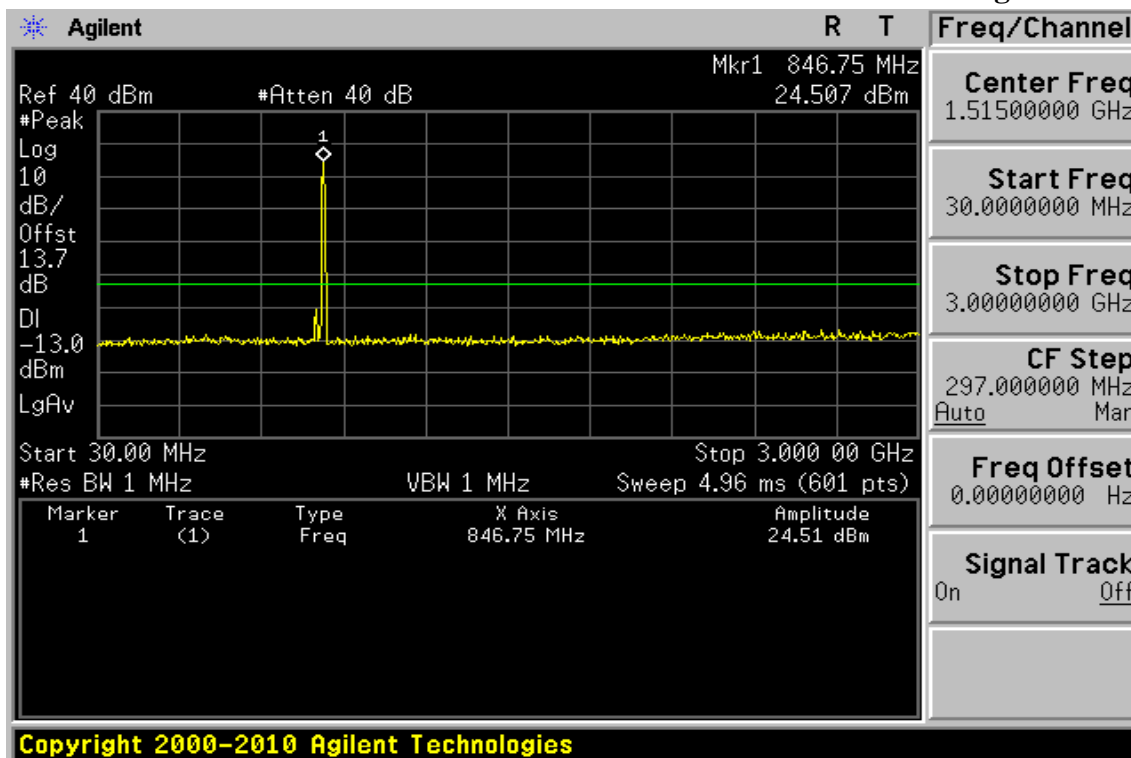
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Out of Band emission at antenna terminals –HSUPA V Channel Highest



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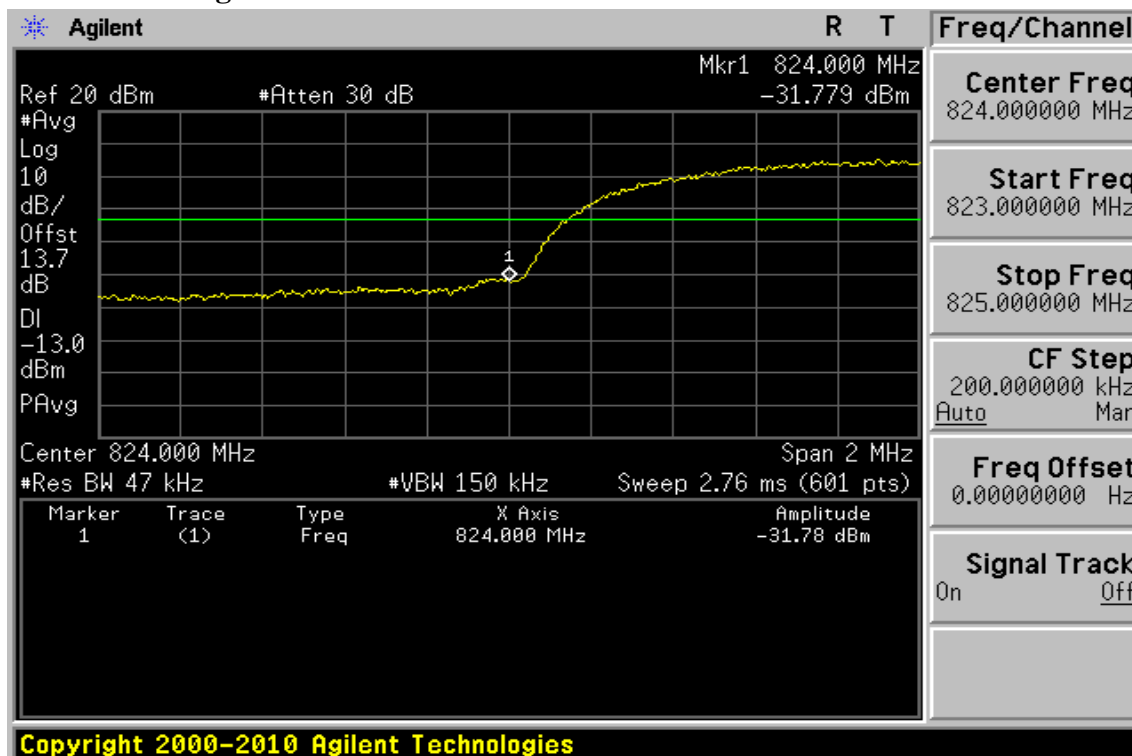
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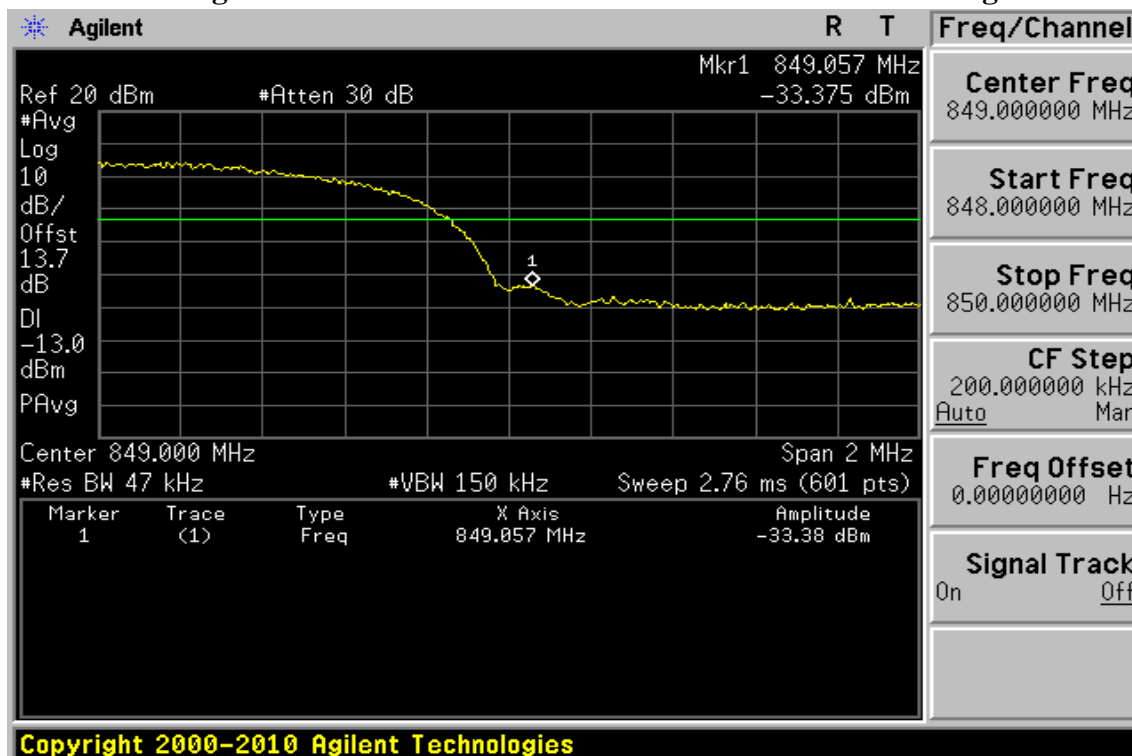
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Band edge emission at antenna terminals –HSUPA V Channel Lowest



Band edge emission at antenna terminals –HSUPA V Channel Highest



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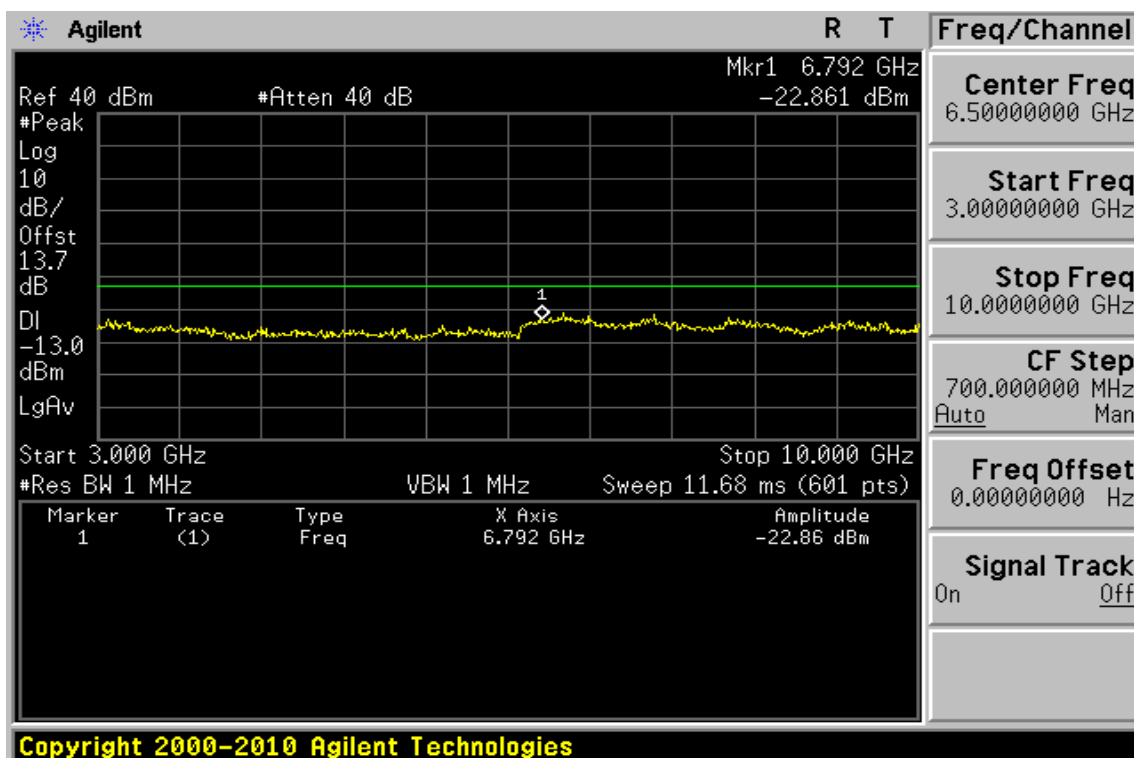
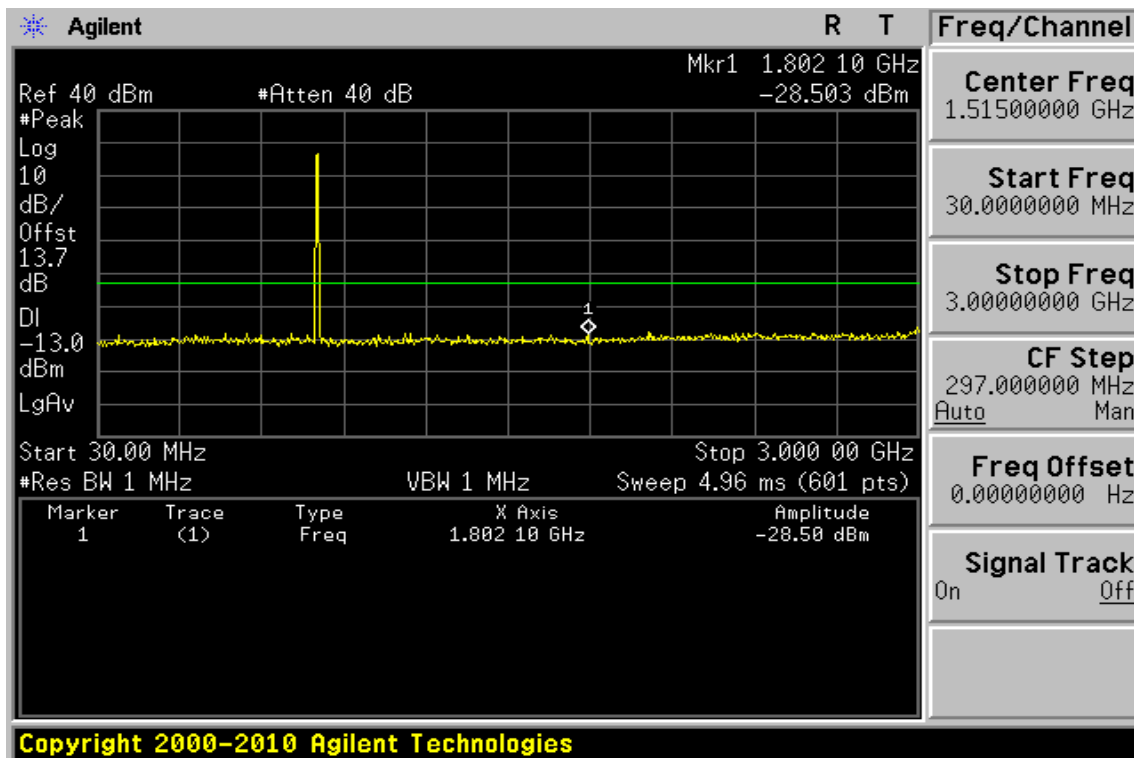
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Out of Band emission at antenna terminals – CDMA BC0 Channel Lowest



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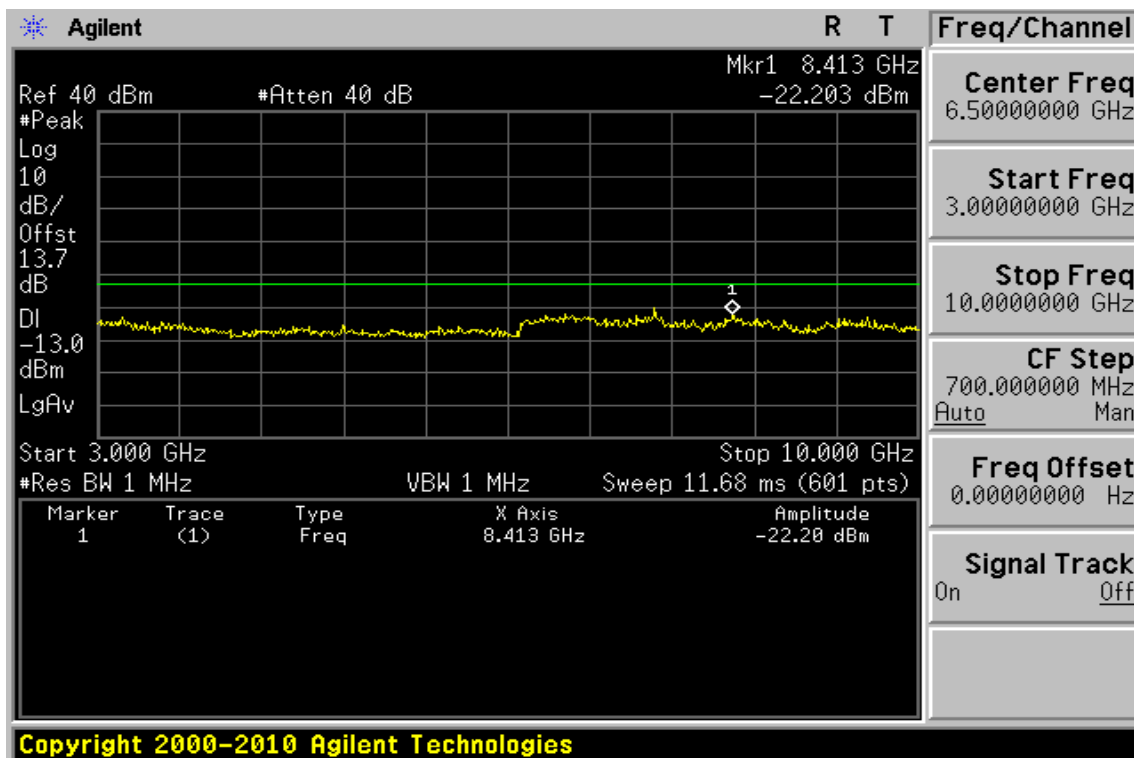
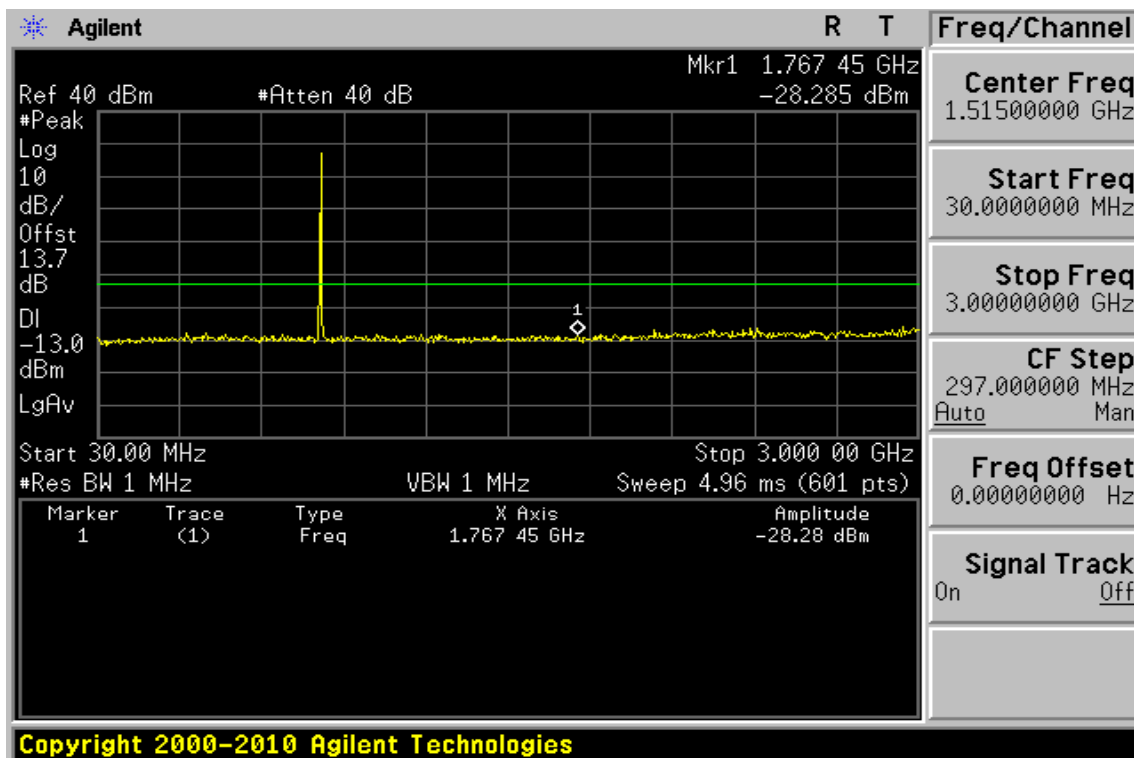
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Out of Band emission at antenna terminals – CDMA BC0 Channel Mid



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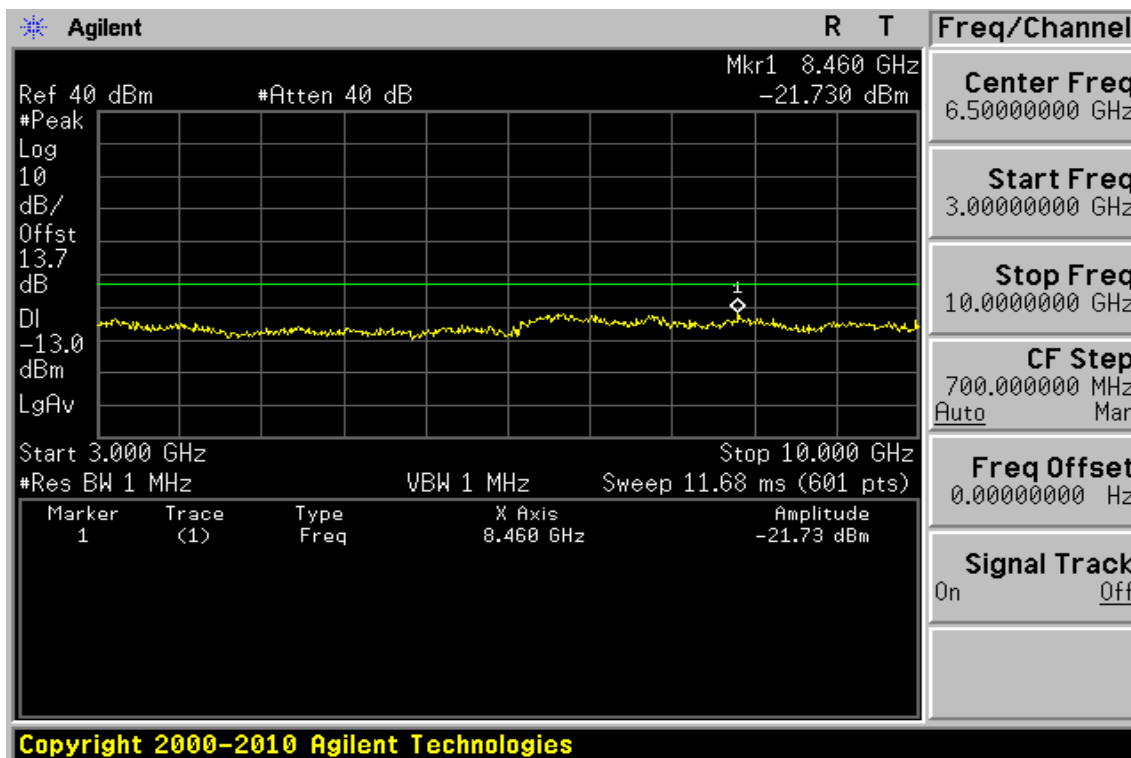
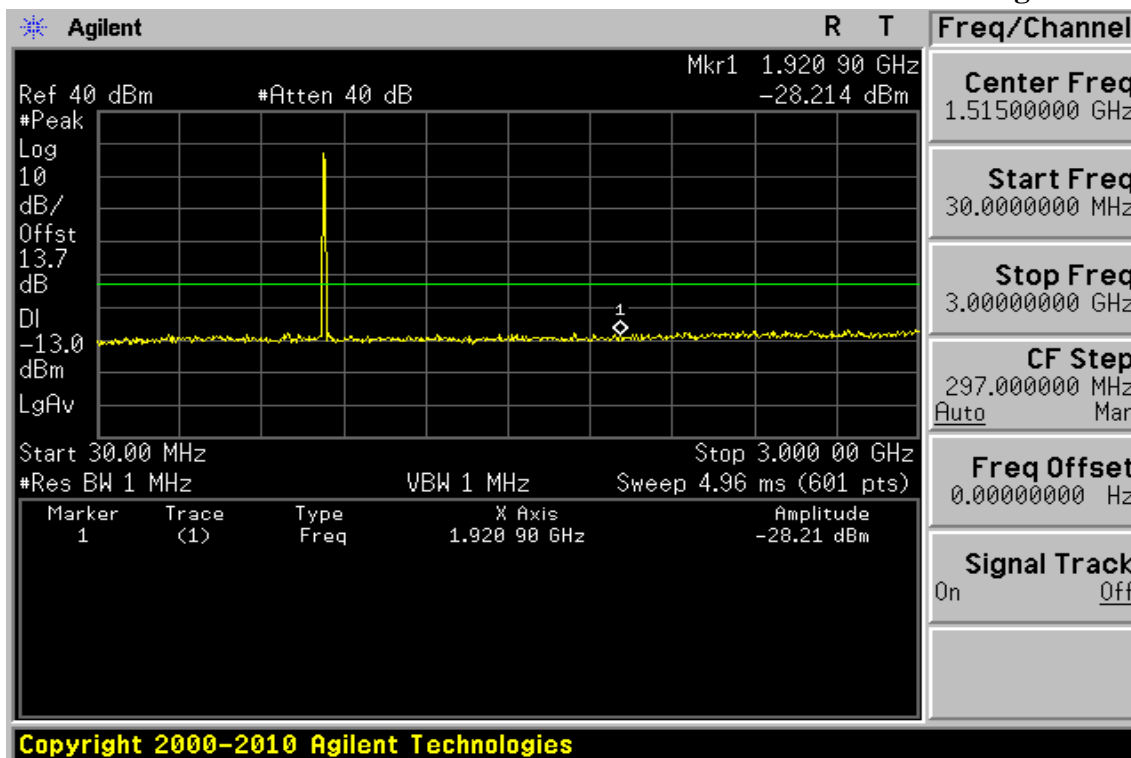
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Out of Band emission at antenna terminals – CDMA BC0 Channel Highest



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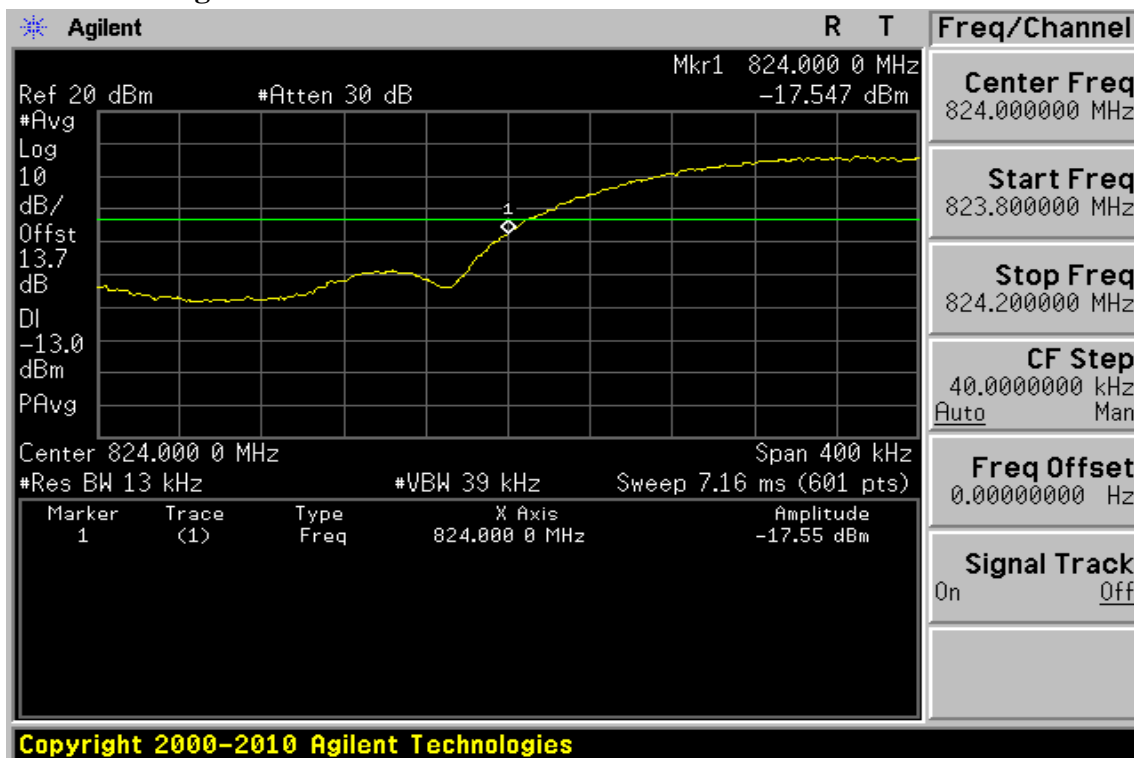
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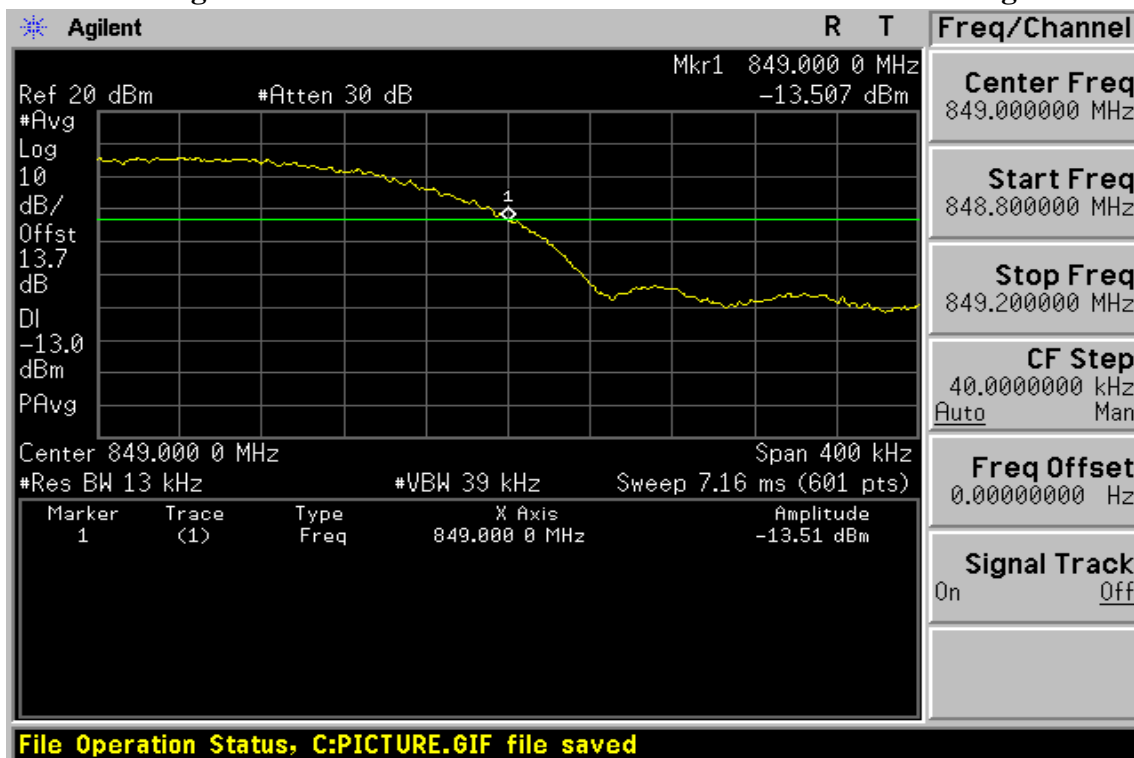
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Band edge emission at antenna terminals – CDMA BC0 Channel Lowest



Band edge emission at antenna terminals – CDMA BC0 Channel Highest



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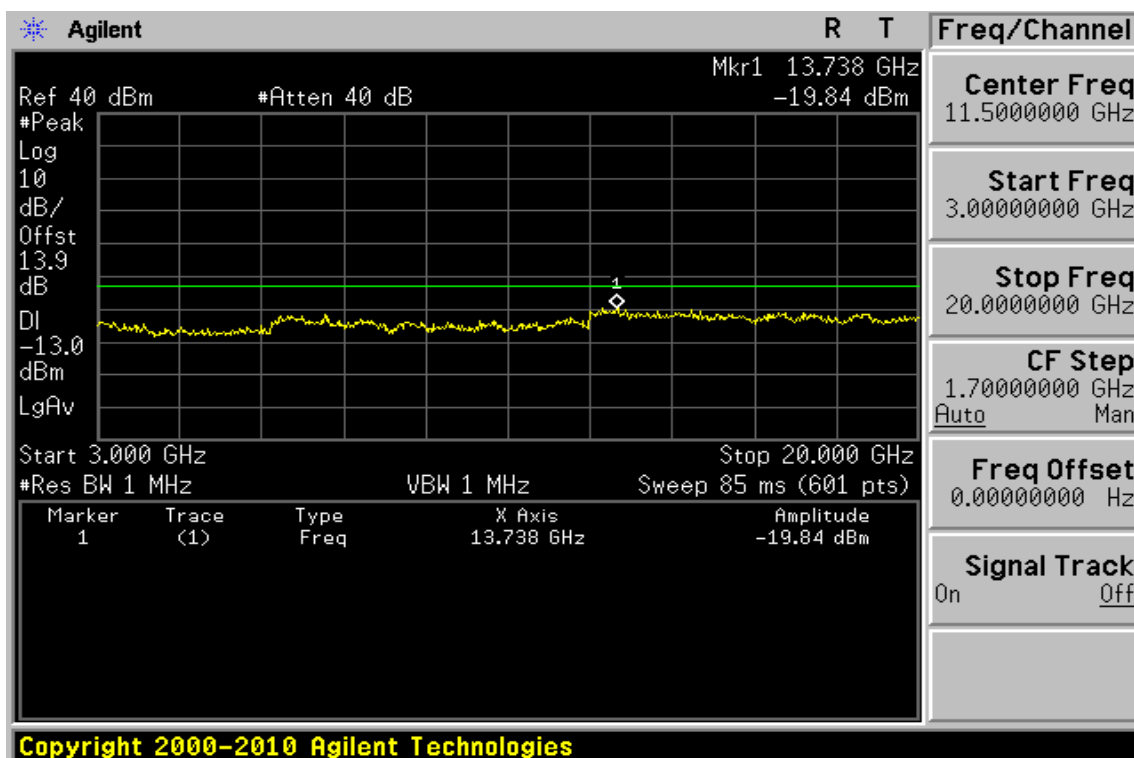
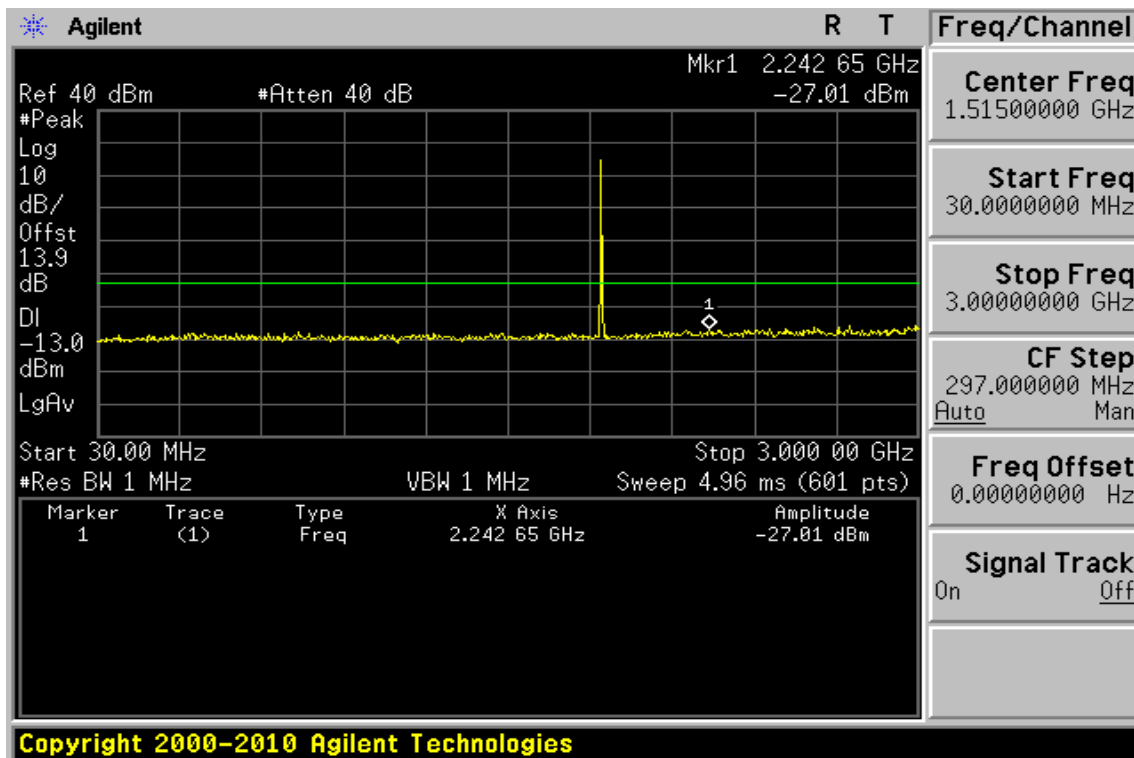
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Out of Band emission at antenna terminals – CDMA BC1 Channel Lowest



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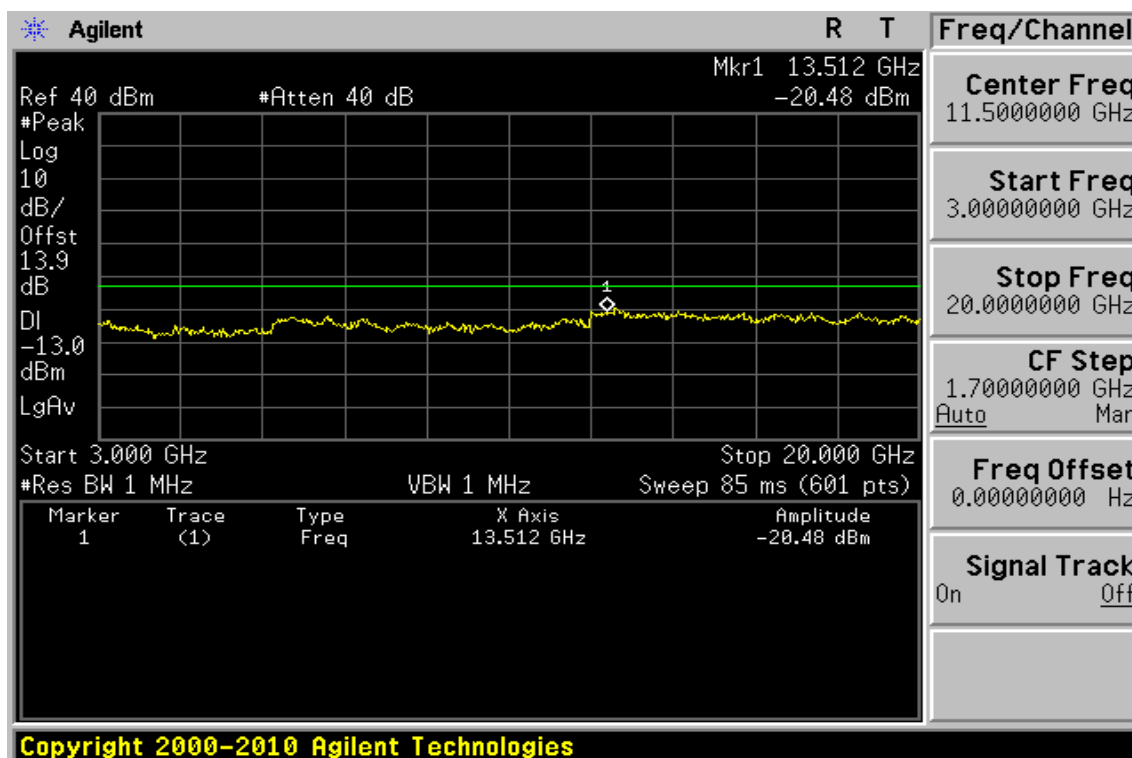
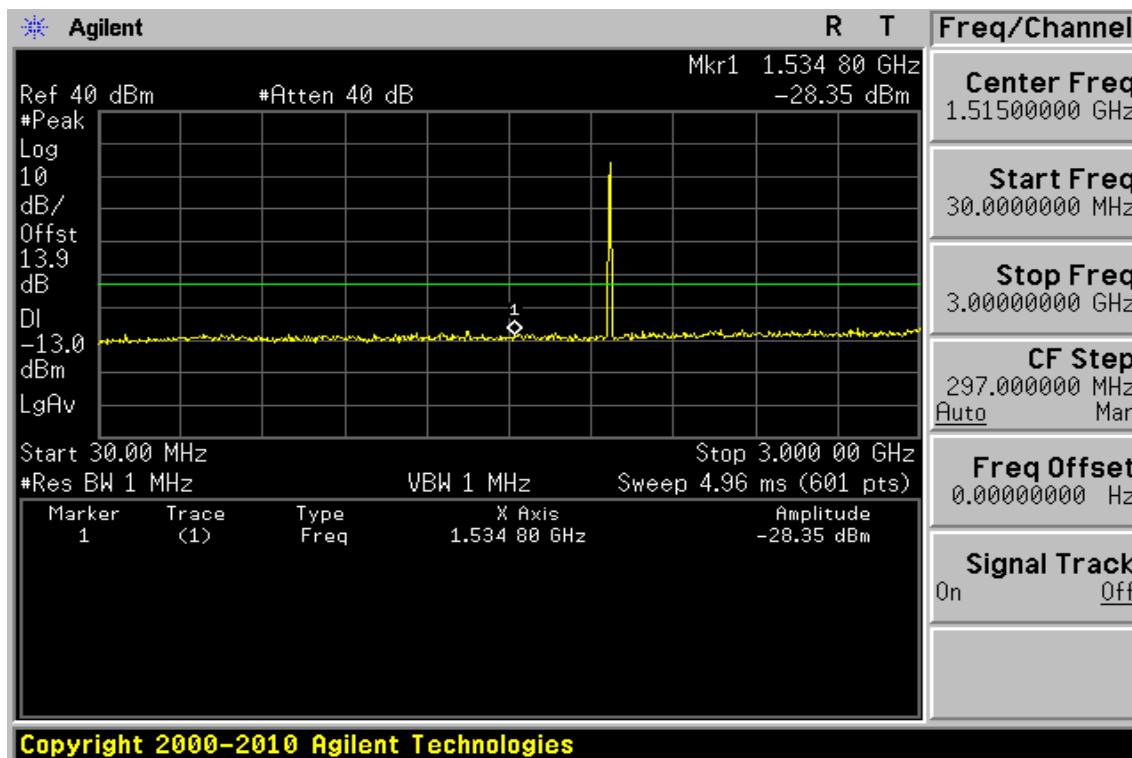
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Out of Band emission at antenna terminals – CDMA BC1 Channel Mid



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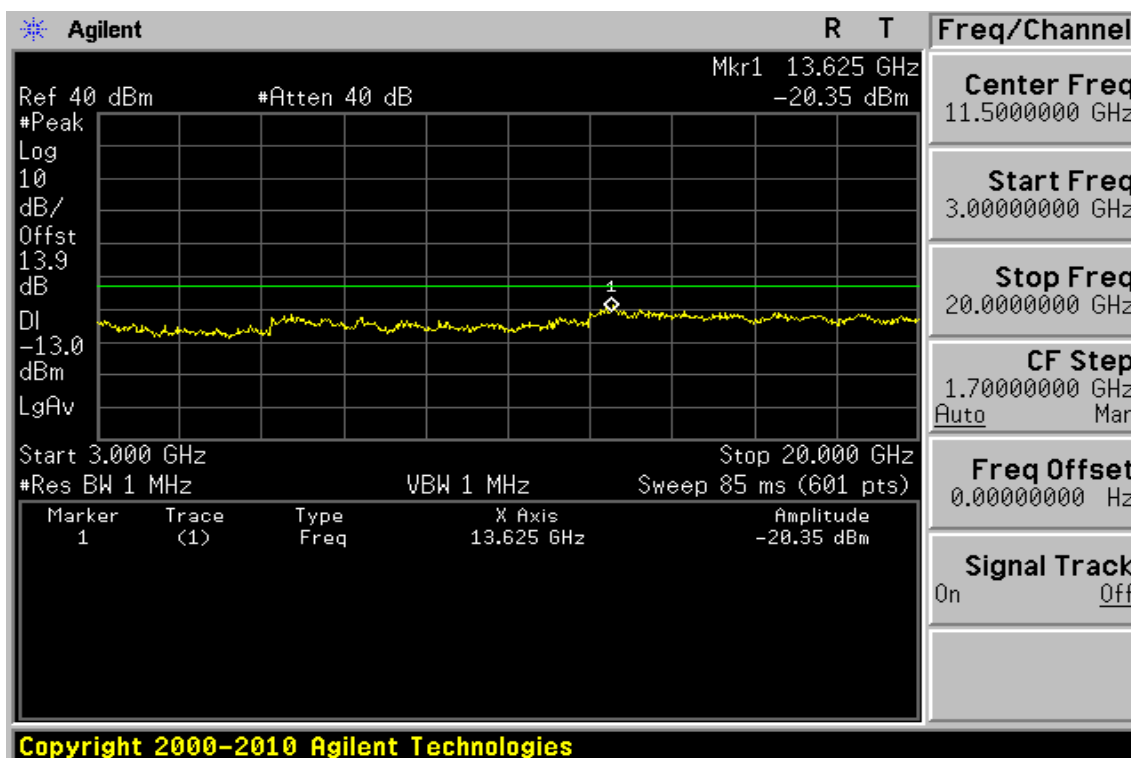
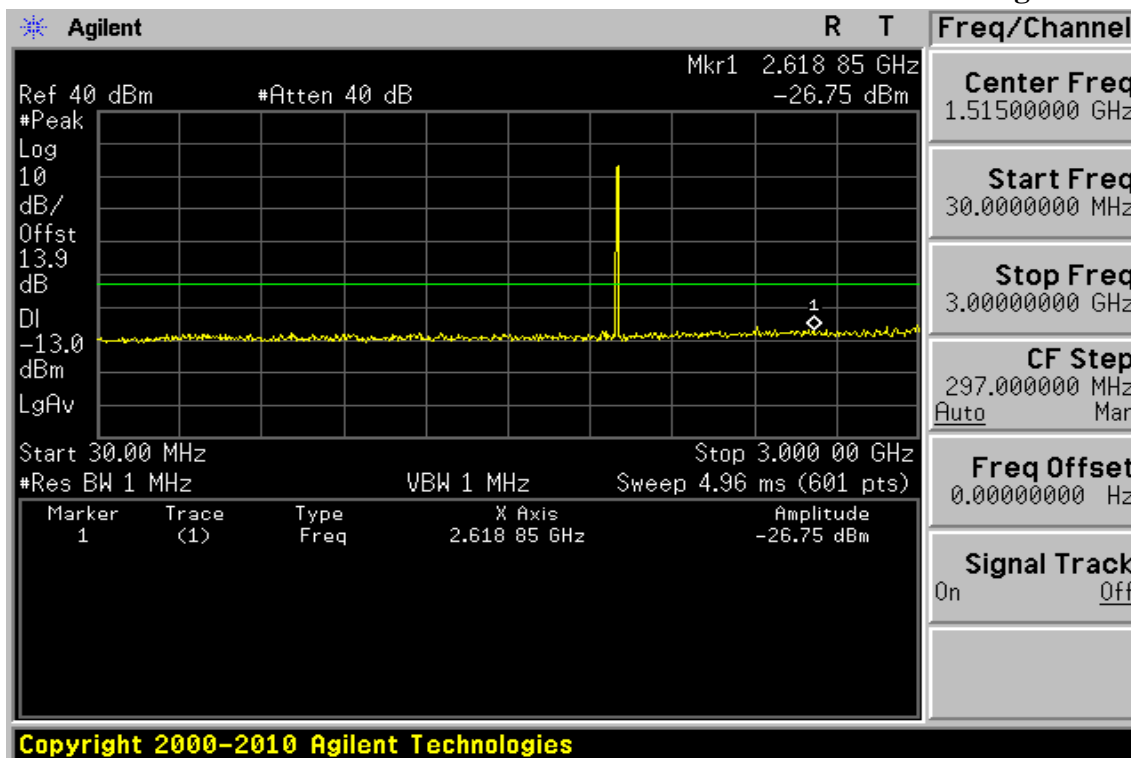
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Out of Band emission at antenna terminals – CDMA BC1 Channel Highest



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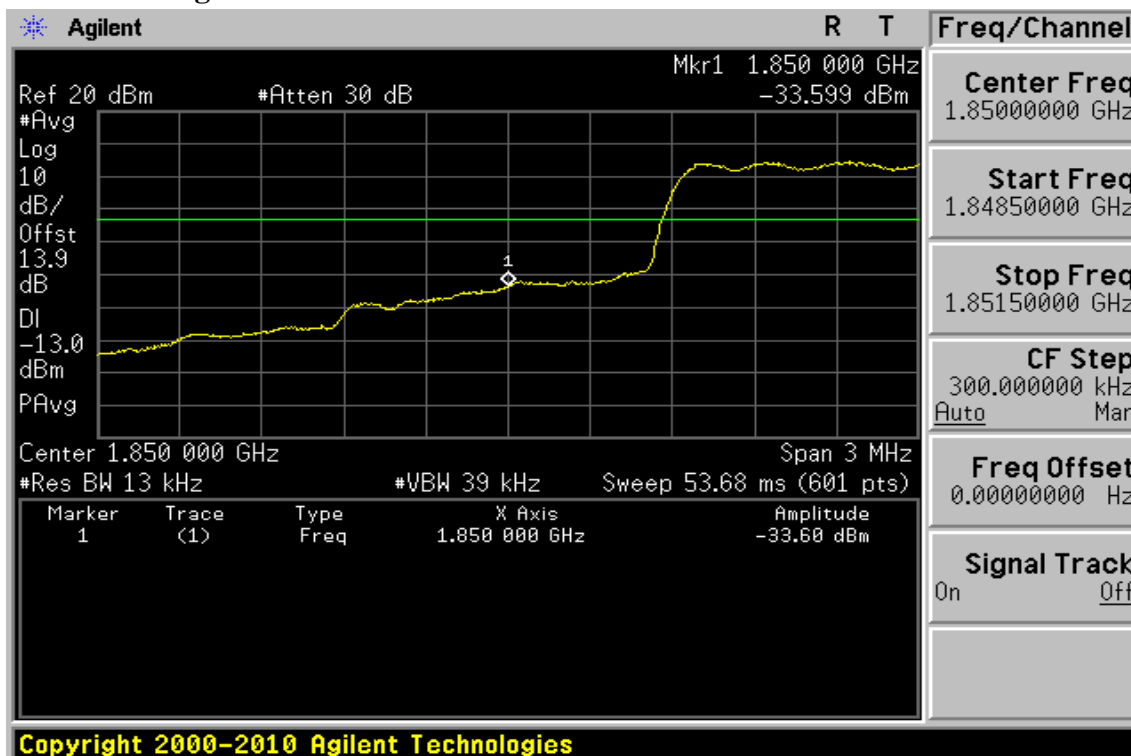
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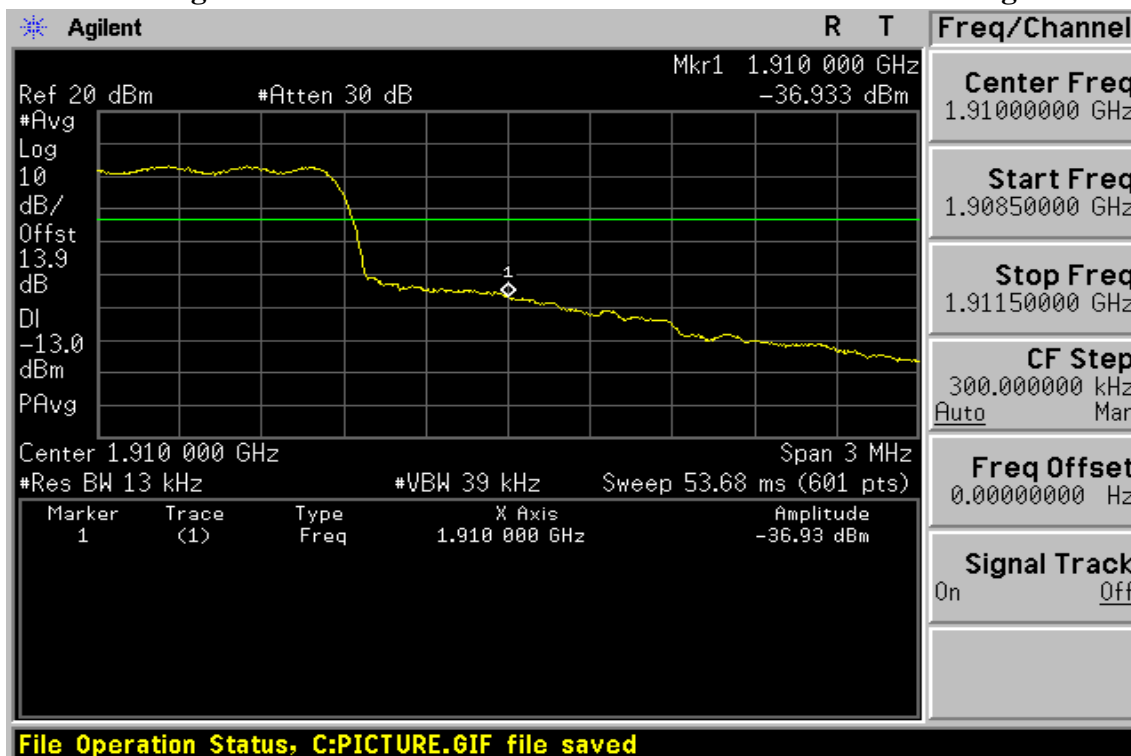
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Band edge emission at antenna terminals – CDMA BC1 Channel Lowest



Band edge emission at antenna terminals – CDMA BC1 Channel Highest



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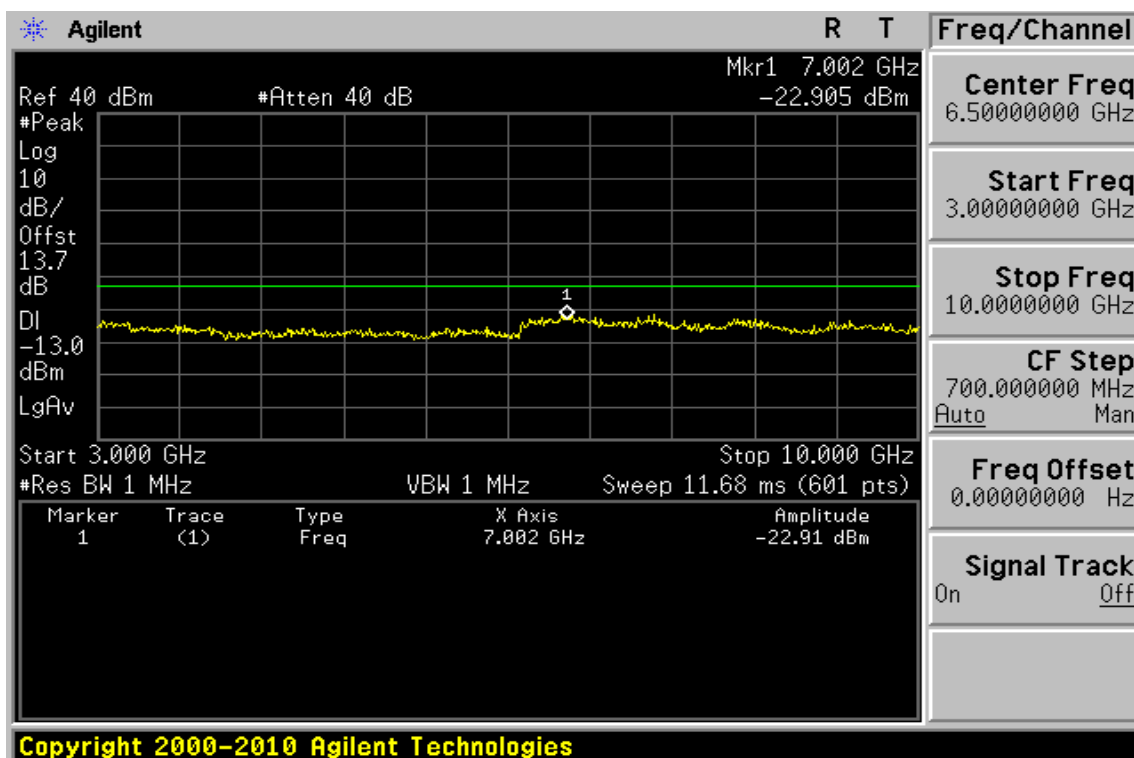
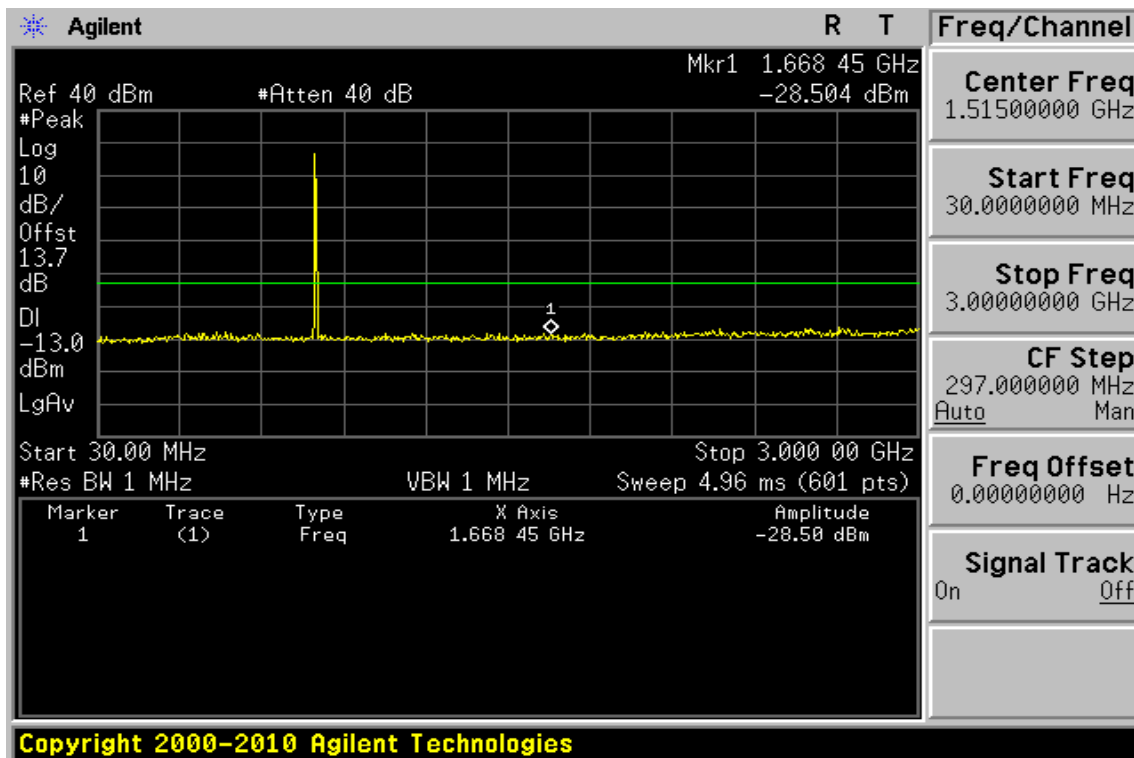
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Out of Band emission at antenna terminals – CDMA BC10 Channel Lowest



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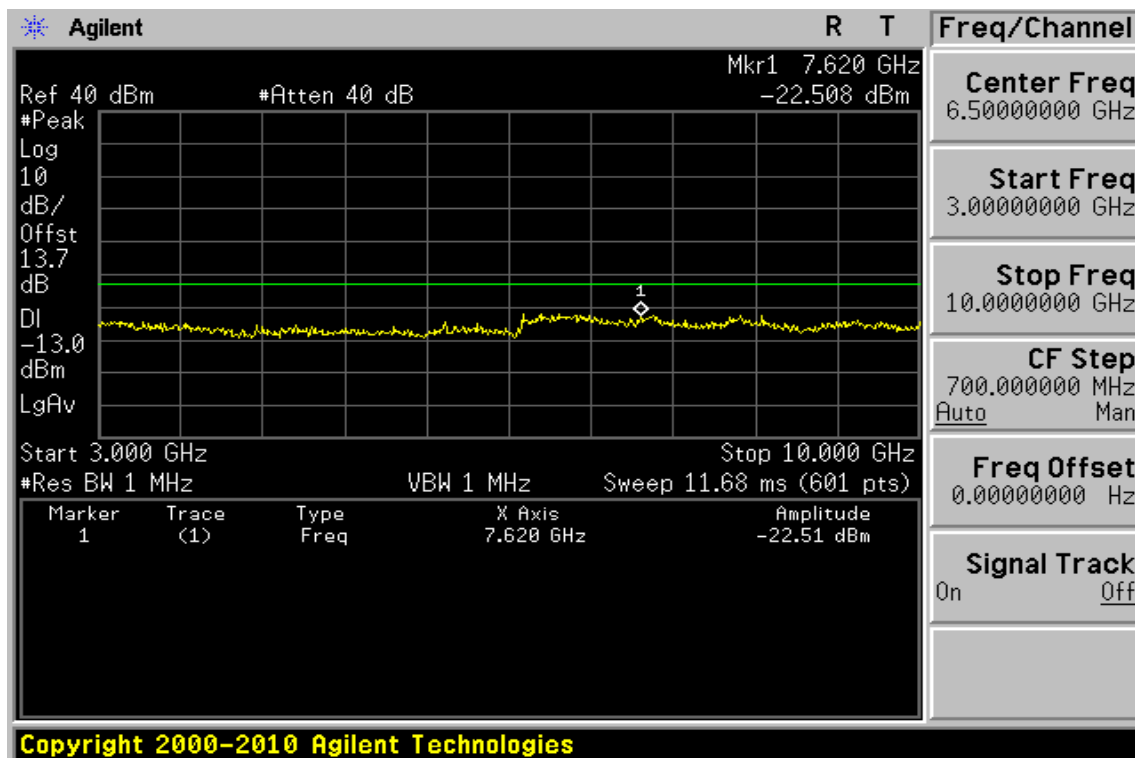
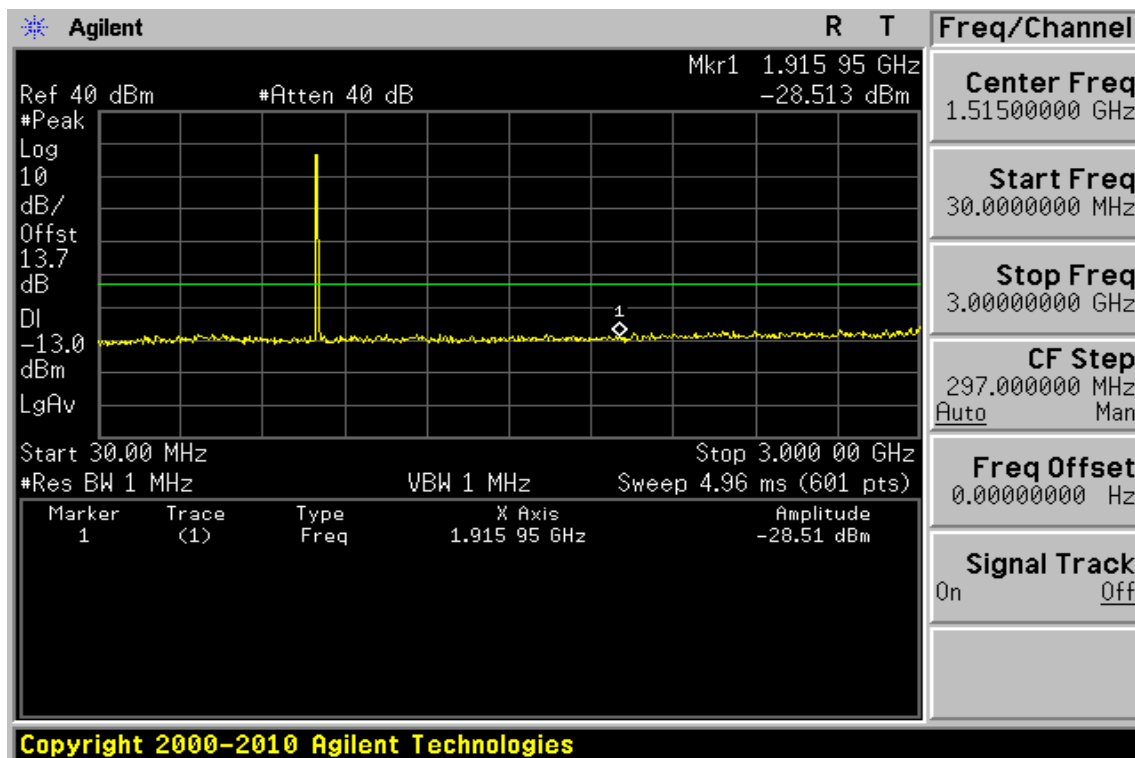
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Out of Band emission at antenna terminals – CDMA BC10 Channel Mid



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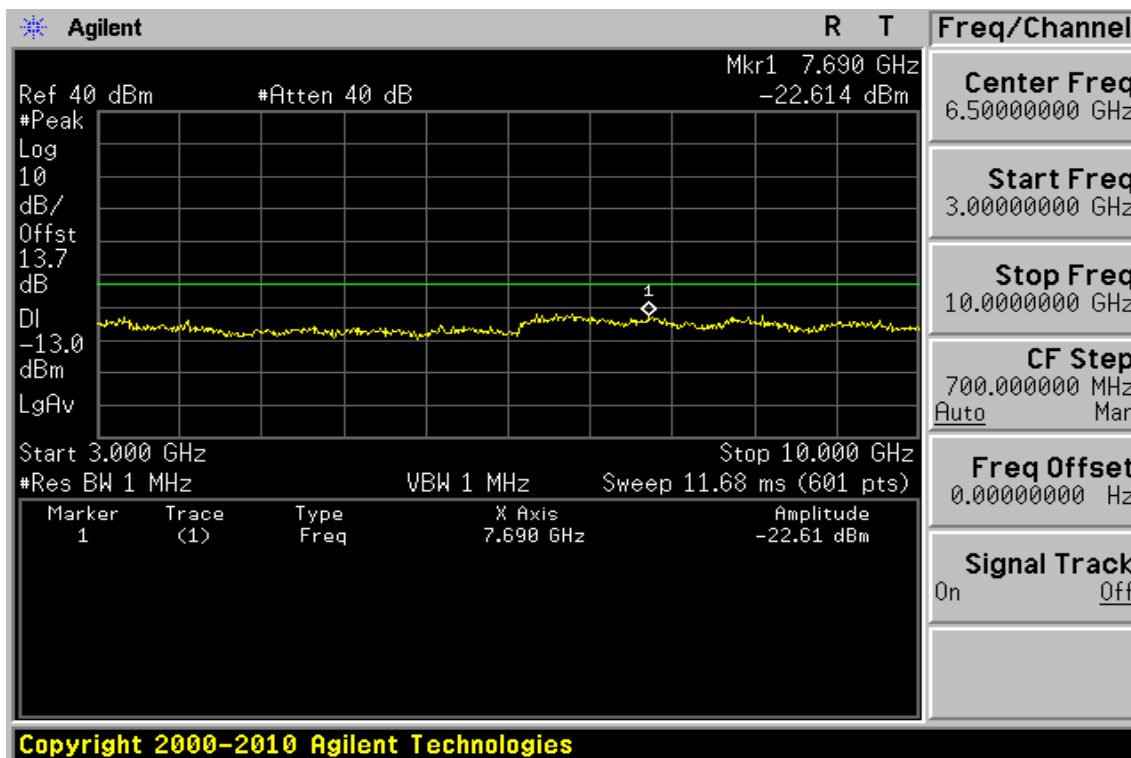
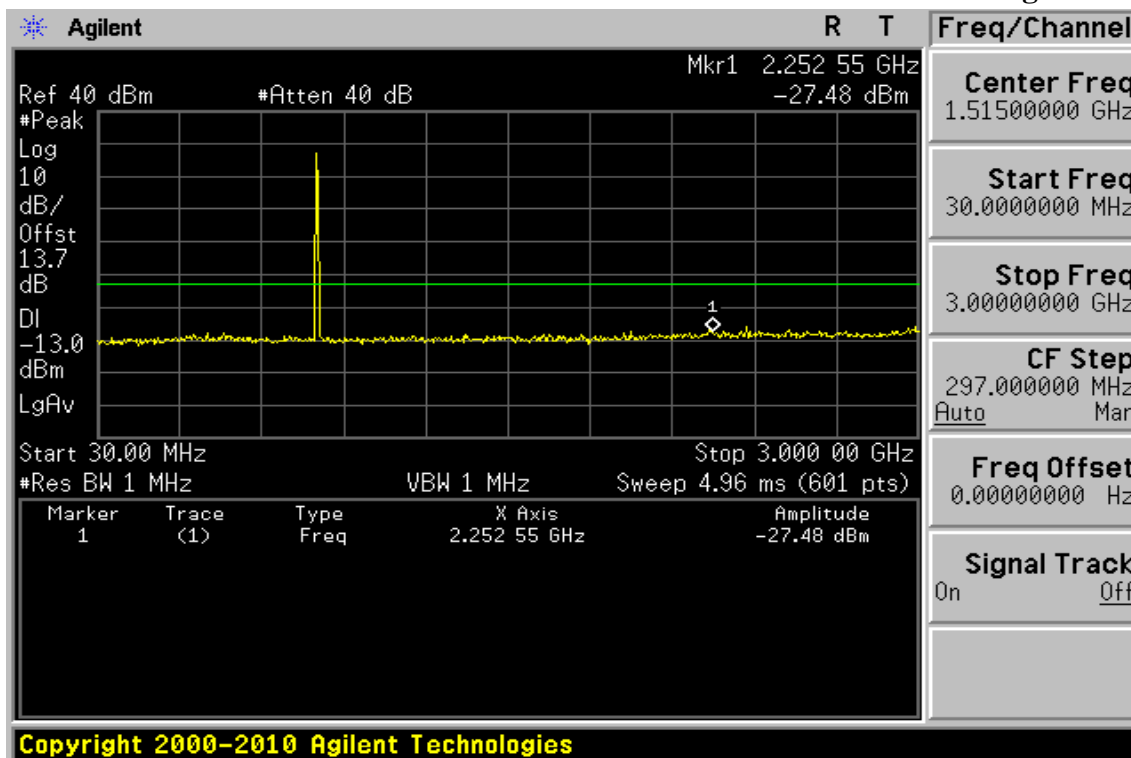
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Out of Band emission at antenna terminals – CDMA BC10 Channel Highest



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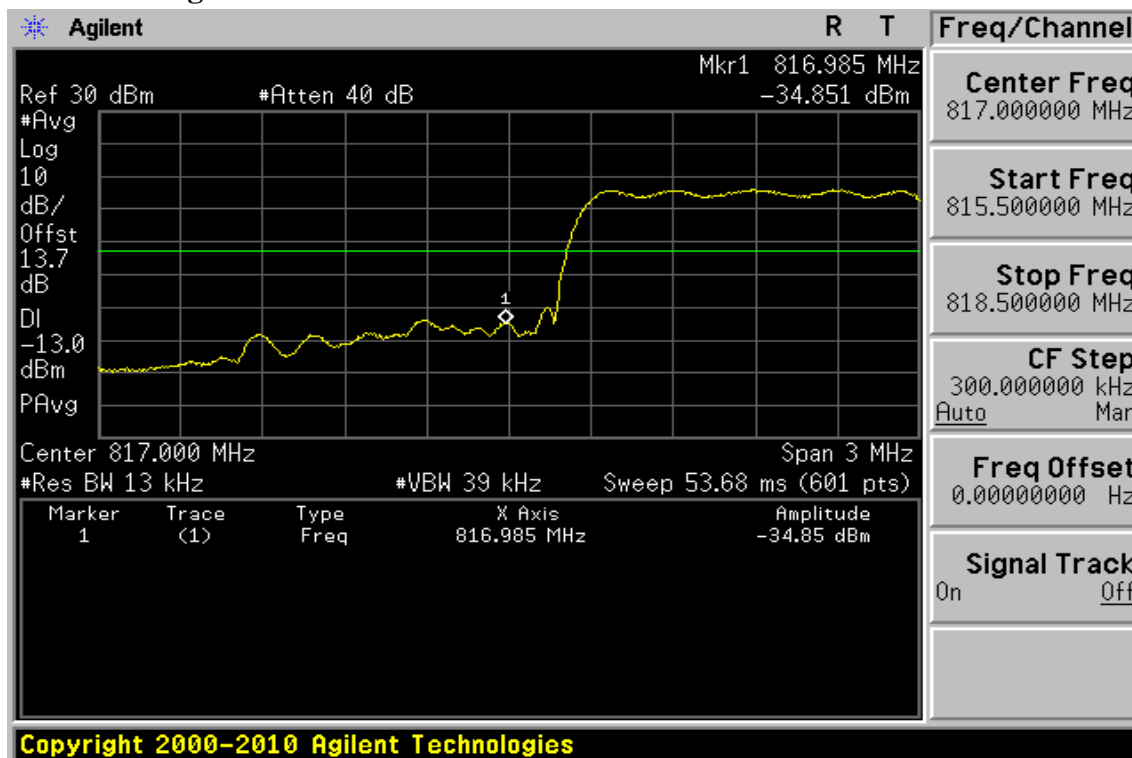
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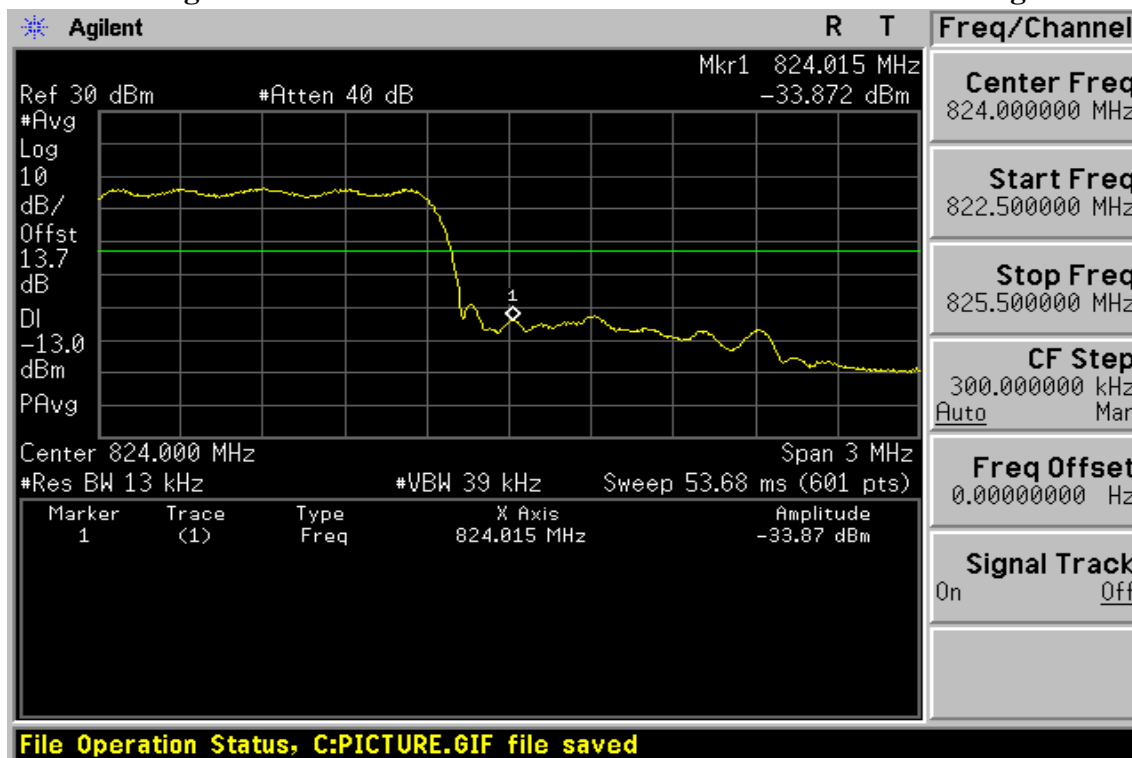
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Band edge emission at antenna terminals – CDMA BC10 Channel Lowest



Band edge emission at antenna terminals – CDMA BC10 Channel Highest



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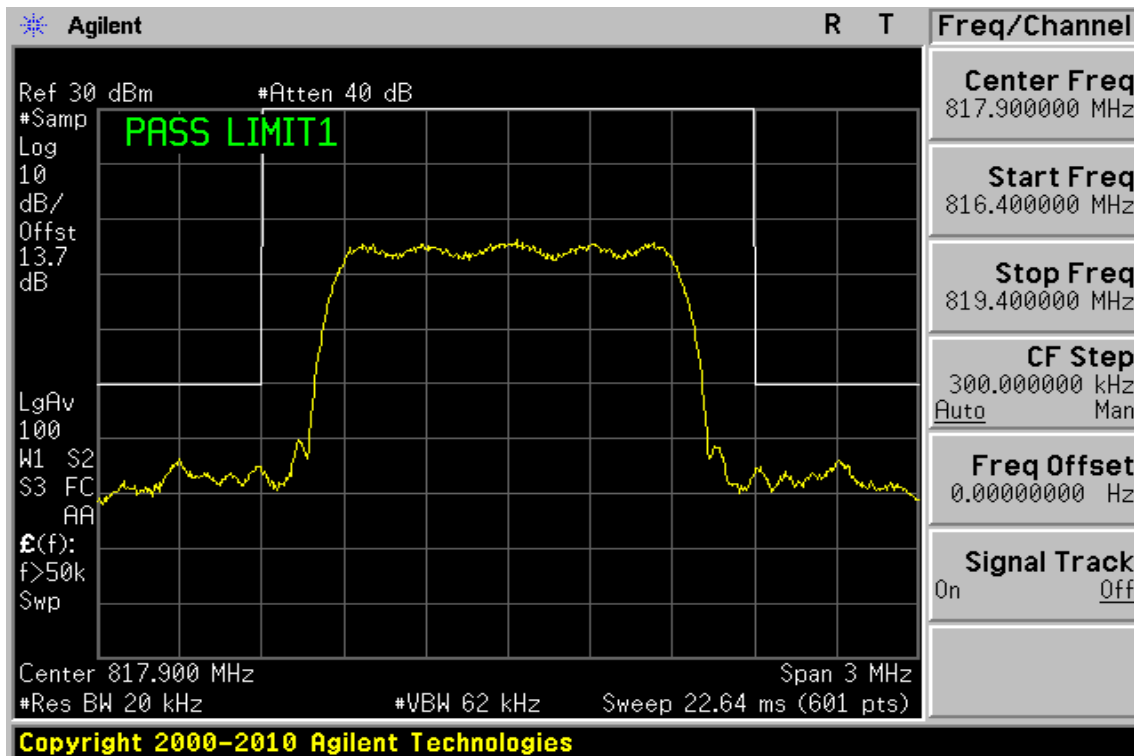
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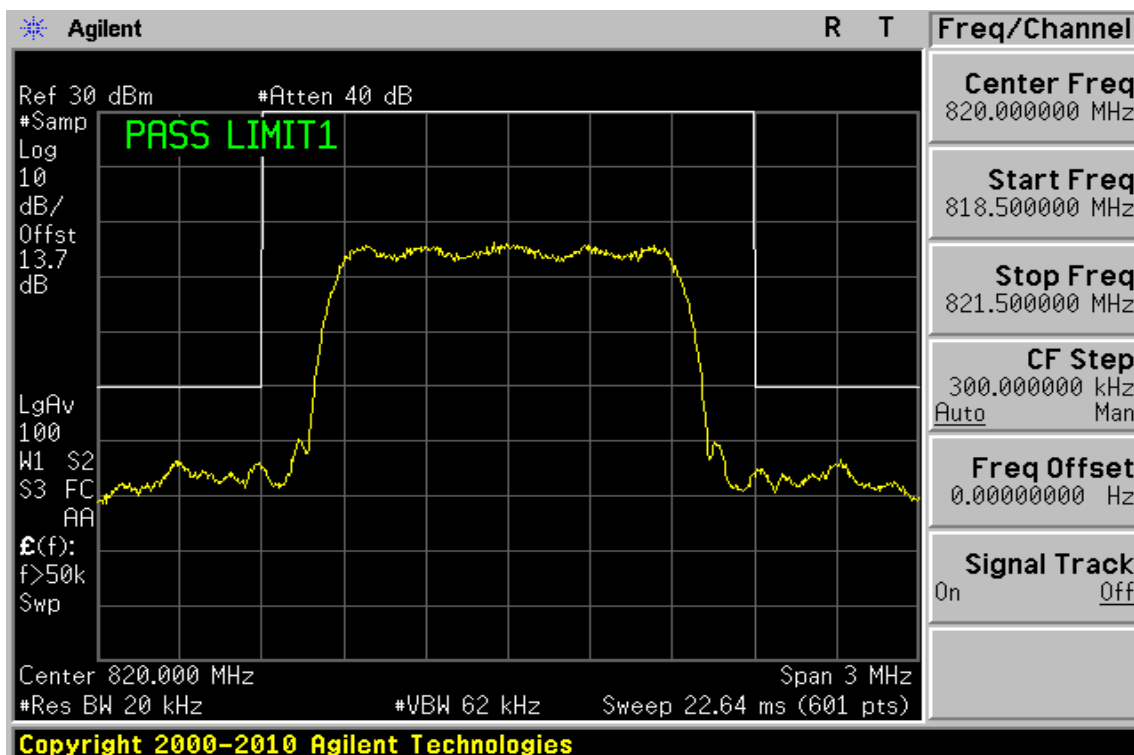
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Emission Mask CDMA2000 BC10 Channel Low



Emission Mask CDMA2000 BC10 Channel Mid



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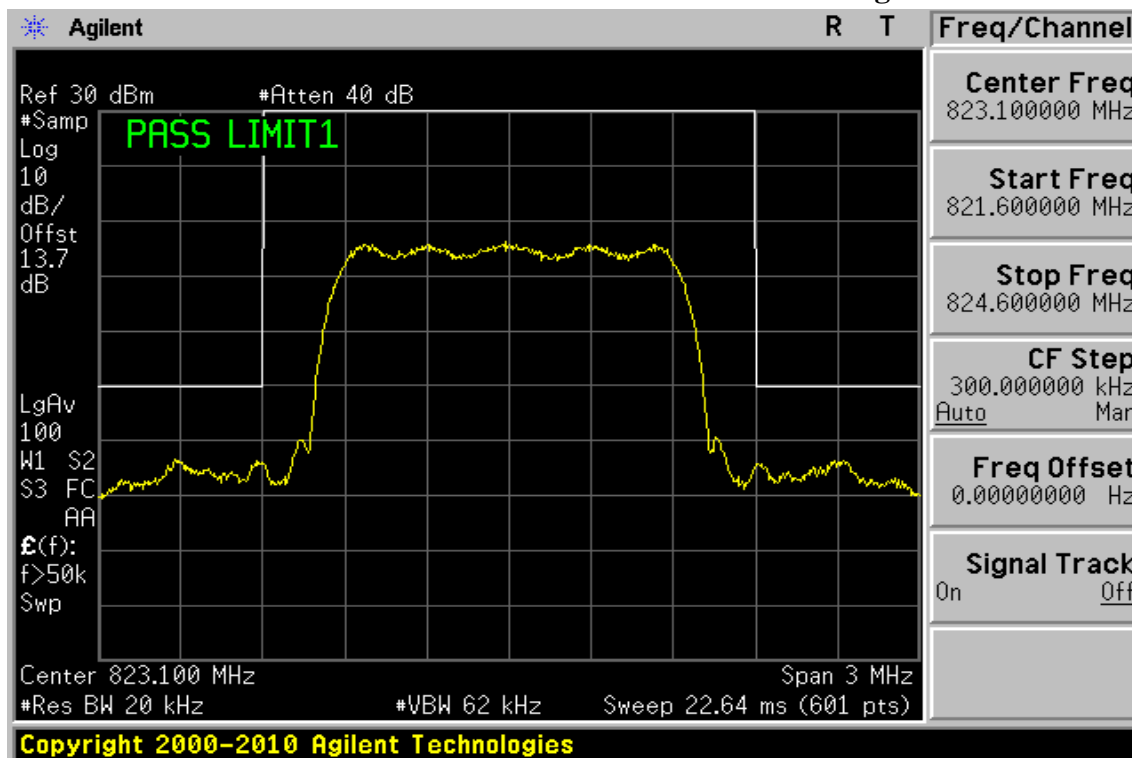
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Emission Mask CDMA2000 BC10 Channel High



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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

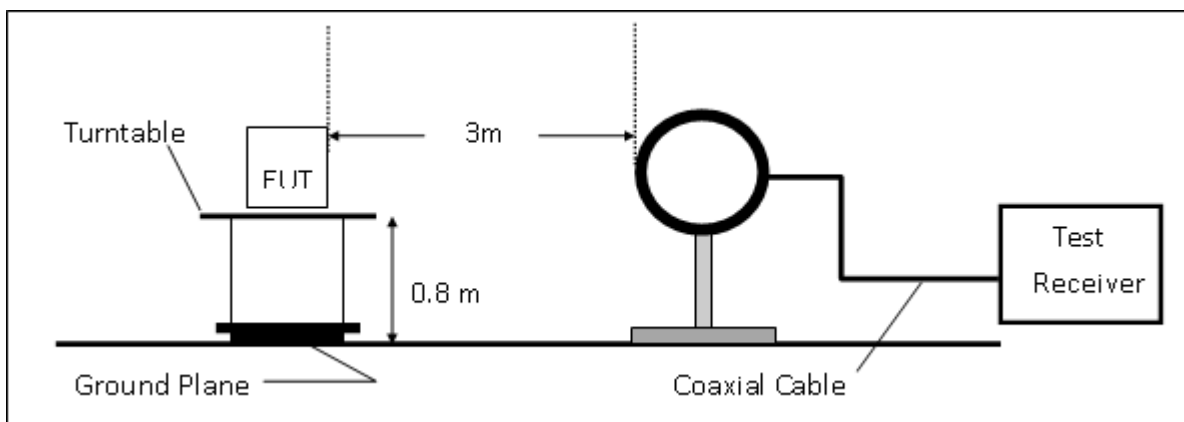
10.1. Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §90.691(a)(1) 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

(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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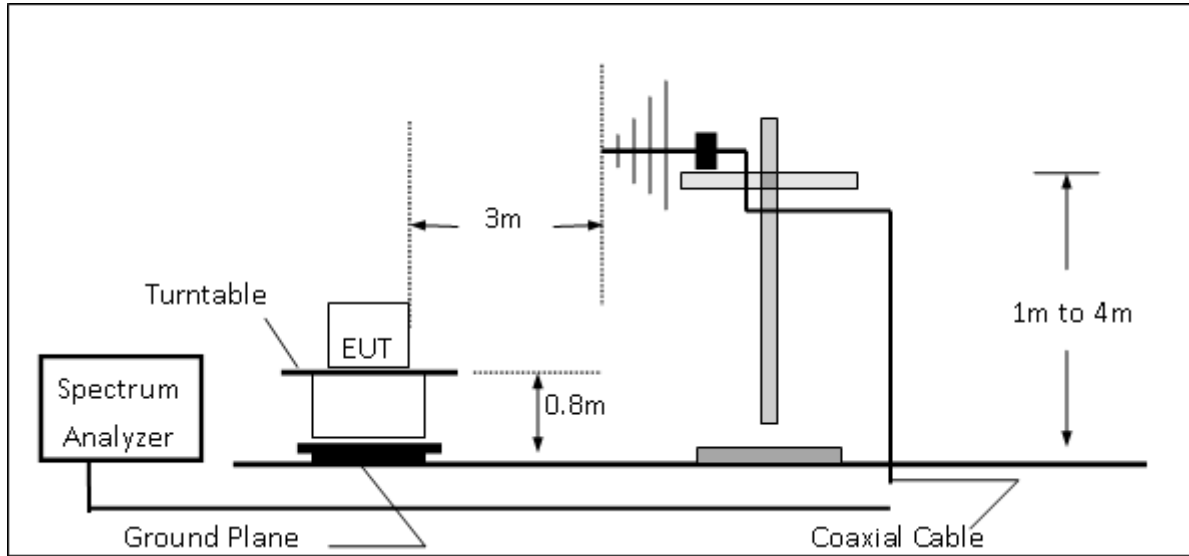
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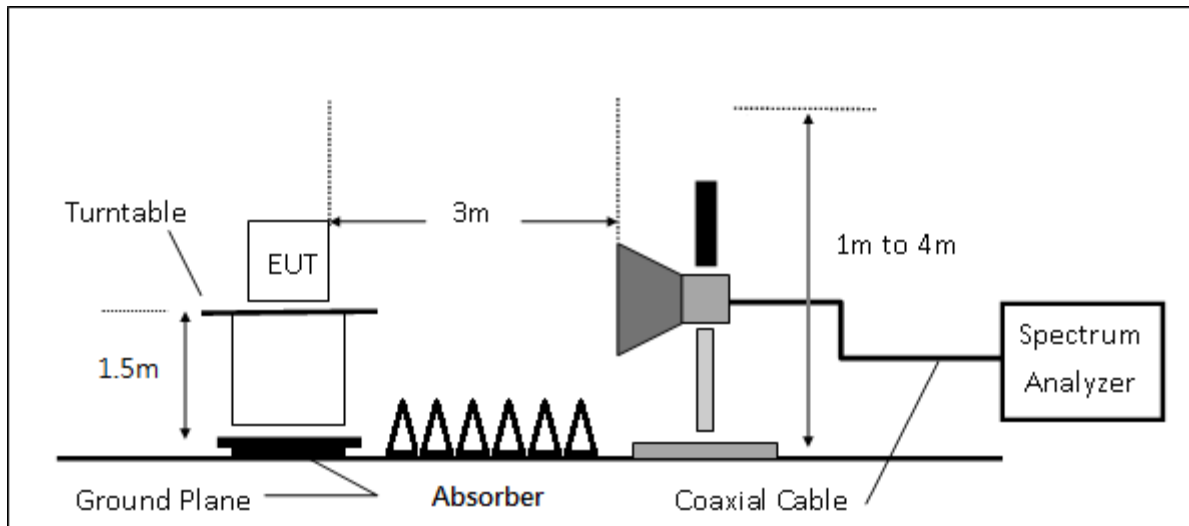
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(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-Up Frequency Over 1 GHz



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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.

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

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

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

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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10.4. Measurement Equipment Used:

| ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber | | | | | |
|--|-----------------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EXA Spectrum Analyzer | Agilent | N9010A | MY50420195 | 12/22/2014 | 12/21/2015 |
| Bilog Antenna | SCHWAZBECK | VULB9168 | 378 | 12/23/2014 | 12/22/2015 |
| Bilog Antenna | SCHWAZBECK | VULB9160 | 3158 | 10/31/2014 | 10/30/2015 |
| Horn antenna | ETS.LINDGREN | 3117 | 123995 | 05/05/2015 | 05/04/2016 |
| Horn antenna | ETS.LINDGREN | 3117 | 123991 | 12/19/2014 | 12/18/2015 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 184 | 12/25/2014 | 12/24/2015 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 185 | 07/29/2014 | 07/28/2015 |
| Network Analyze | Anritsu | MS4644A | 1216312 | 05/23/2015 | 05/22/2016 |
| Signal Generator | Agilent | E4438C | MY45093613 | 08/06/2014 | 08/05/2015 |
| Pre-Amplifier | Agilent | 8447D | 1937A02834 | 01/02/2015 | 01/01/2016 |
| Pre-Amplifier | Agilent | 8449B | 3008A00578 | 01/02/2015 | 01/01/2016 |
| Pre-Amplifier | EMC Instruments Corp. | EMC184045 | 980135 | 01/02/2015 | 01/01/2016 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 004 | 01/02/2015 | 01/01/2016 |
| Radio Communication Analyzer | R&S | CMU200 | 102189 | 02/11/2015 | 02/10/2016 |
| Radio Communication Analyzer | Anritsu | MT8820C | 6200995019 | 10/08/2014 | 10/09/2015 |
| 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 | 01/02/2015 | 01/01/2016 |
| Low Loss Cable | HUBER+SUHNER | 966_Rx | 3m | 01/02/2015 | 01/01/2016 |
| Filter 800-1000 | Micro-Tronics | EWT | M2 | 01/02/2015 | 01/01/2016 |
| Filter 1800-2000 | Micro-Tronics | EWT | M2 | 01/02/2015 | 01/01/2016 |
| Filter 1700-1800 | Micro-Tronics | BRC15751 | 001 | 01/02/2015 | 01/01/2016 |
| 1GHz High Pass Filter | Micro-Tronics | HPM50108 | 32 | 01/02/2015 | 01/01/2016 |
| 2GHz High Pass Filter | Micro-Tronics | HPM50110 | 36 | 01/02/2015 | 01/01/2016 |
| 3m Site NSA | SGS | 966 chamber | N/A | 07/15/2014 | 07/14/2015 |

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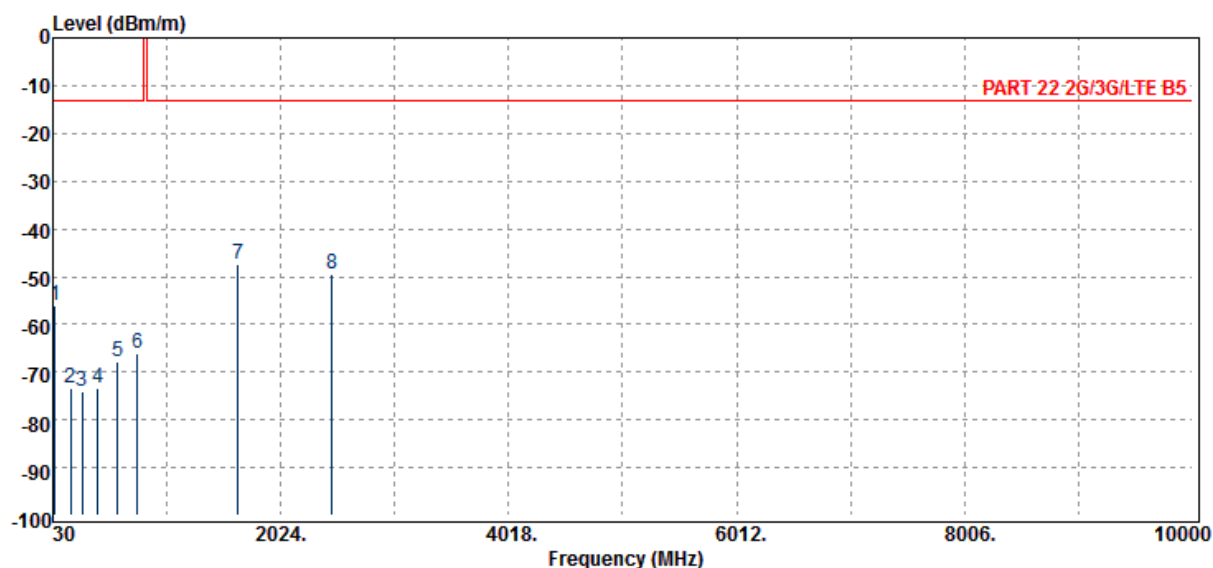
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10.5. Measurement Result:

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

| | | | |
|-----------------------|------------|--------------------------|-------------------|
| ARFCN | :CH 128 | Test Date | :2015-06-12 |
| Operation Band | :GPRS 850 | Temp./Humi. | :24 deg_C / 60 RH |
| Fundamental Frequency | :824.2 MHz | Engineer | :Curry |
| Operation Mode | :TX LOW | | |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | ERP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 47.46 | S | -56.23 | -43.45 | -11.89 | -0.89 | -13.00 | -43.23 |
| 188.11 | S | -73.33 | -74.17 | 2.35 | -1.51 | -13.00 | -60.33 |
| 286.08 | S | -73.93 | -75.58 | 3.39 | -1.73 | -13.00 | -60.93 |
| 419.94 | S | -73.21 | -74.75 | 3.51 | -1.97 | -13.00 | -60.21 |
| 593.57 | S | -67.85 | -68.55 | 3.46 | -2.76 | -13.00 | -54.85 |
| 768.17 | S | -65.94 | -66.54 | 3.34 | -2.74 | -13.00 | -52.94 |
| 1648.40 | H | -47.46 | -46.30 | 3.05 | -4.21 | -13.00 | -34.46 |
| 2472.60 | H | -49.42 | -47.69 | 3.59 | -5.32 | -13.00 | -36.42 |

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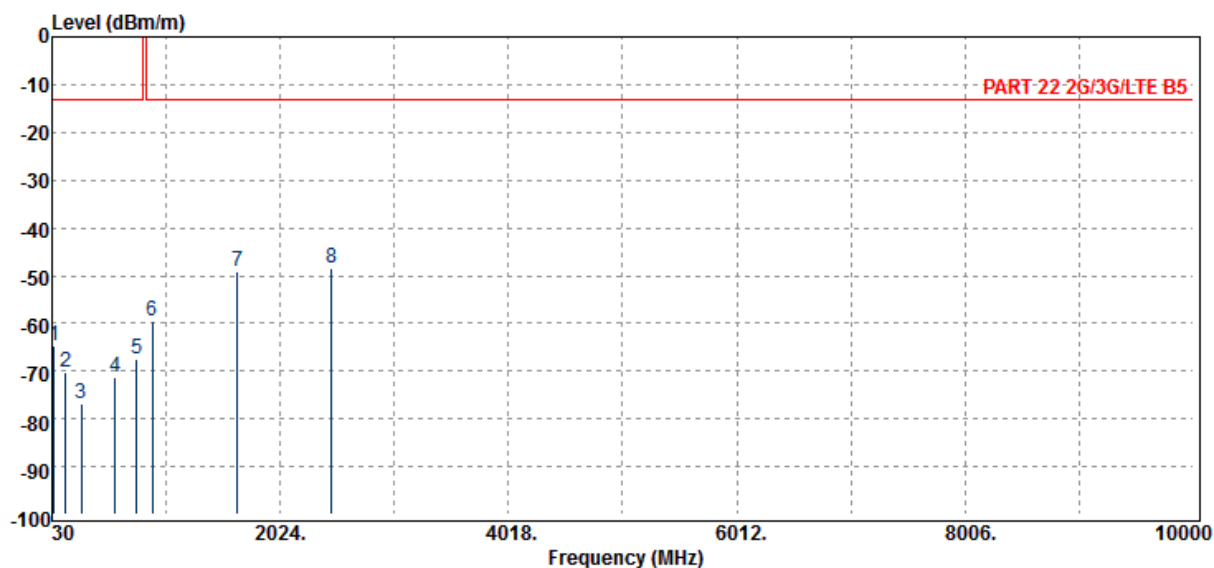
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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| ARFCN | :CH 128 | Test Date | :2015-06-12 |
| Operation Band | :GPRS 850 | Temp./Humi. | :24 deg_C / 60 RH |
| Fundamental Frequency | :824.2 MHz | Engineer | :Curry |
| Operation Mode | :TX LOW | | |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | ERP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 51.34 | S | -64.69 | -52.72 | -11.05 | -0.92 | -13.00 | -51.69 |
| 147.37 | S | -70.29 | -66.69 | -2.23 | -1.37 | -13.00 | -57.29 |
| 288.99 | S | -76.71 | -78.38 | 3.42 | -1.74 | -13.00 | -63.71 |
| 581.93 | S | -71.32 | -72.08 | 3.49 | -2.73 | -13.00 | -58.32 |
| 773.02 | S | -67.50 | -68.10 | 3.36 | -2.75 | -13.00 | -54.50 |
| 903.00 | S | -59.66 | -59.79 | 3.26 | -3.13 | -13.00 | -46.66 |
| 1648.40 | H | -49.01 | -47.85 | 3.05 | -4.21 | -13.00 | -36.01 |
| 2472.60 | H | -48.45 | -46.72 | 3.59 | -5.32 | -13.00 | -35.45 |

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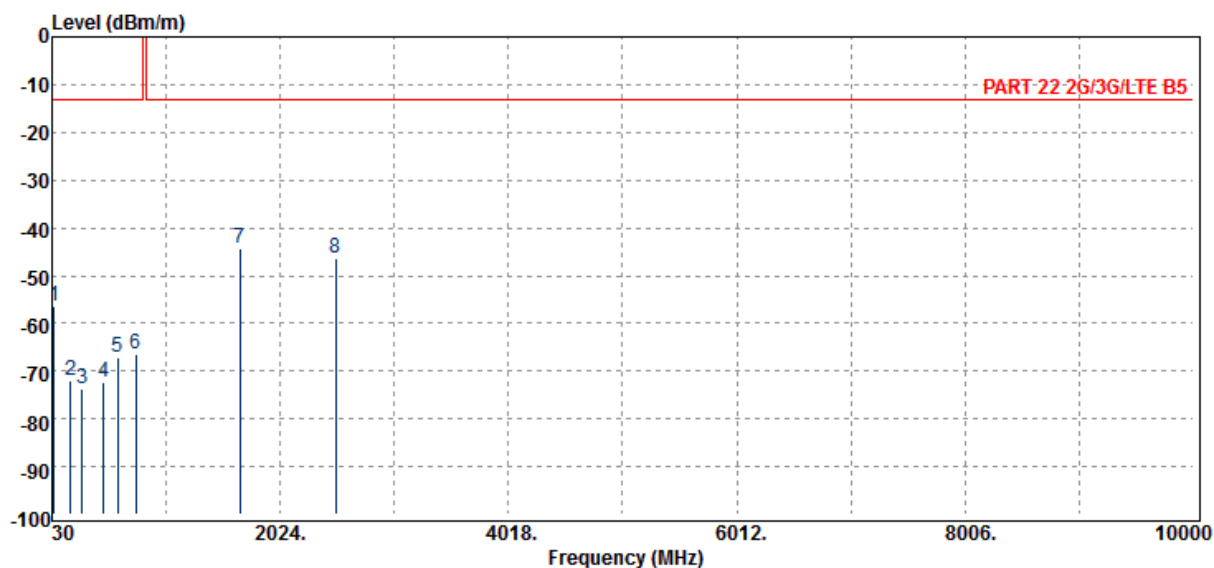
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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| ARFCN | :CH 190 | Test Date | :2015-06-12 |
| Operation Band | :GPRS 850 | Temp./Humi. | :24 deg_C / 60 RH |
| Fundamental Frequency | :836.6 MHz | Engineer | :Curry |
| Operation Mode | :TX MID | | |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | ERP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 47.46 | S | -56.38 | -43.60 | -11.89 | -0.89 | -13.00 | -43.38 |
| 191.99 | S | -72.13 | -73.38 | 2.77 | -1.52 | -13.00 | -59.13 |
| 293.84 | S | -73.81 | -75.55 | 3.50 | -1.76 | -13.00 | -60.81 |
| 480.08 | S | -72.23 | -73.64 | 3.60 | -2.18 | -13.00 | -59.23 |
| 600.36 | S | -67.29 | -67.99 | 3.44 | -2.75 | -13.00 | -54.29 |
| 762.35 | S | -66.32 | -66.91 | 3.32 | -2.72 | -13.00 | -53.32 |
| 1673.20 | H | -44.29 | -43.04 | 3.01 | -4.26 | -13.00 | -31.29 |
| 2509.80 | H | -46.23 | -44.55 | 3.67 | -5.35 | -13.00 | -33.23 |

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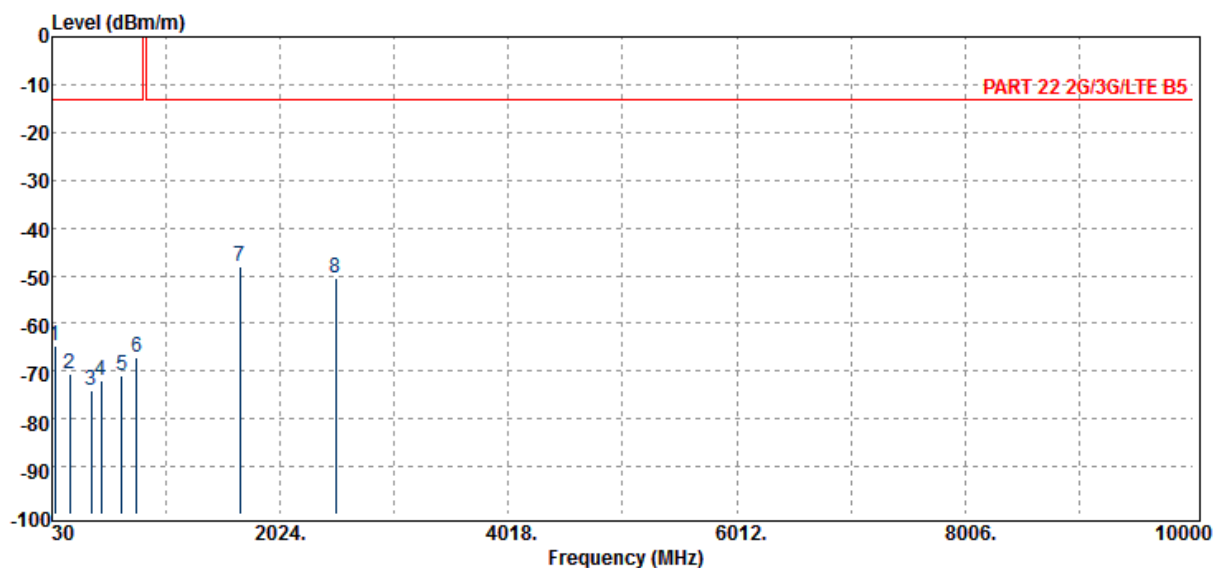
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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| ARFCN | :CH 190 | Test Date | :2015-06-12 |
| Operation Band | :GPRS 850 | Temp./Humi. | :24 deg_C / 60 RH |
| Fundamental Frequency | :836.6 MHz | Engineer | :Curry |
| Operation Mode | :TX MID | | |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | ERP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 52.31 | S | -64.66 | -52.97 | -10.78 | -0.92 | -13.00 | -51.66 |
| 183.26 | S | -70.52 | -70.55 | 1.54 | -1.51 | -13.00 | -57.52 |
| 374.35 | S | -73.89 | -75.63 | 3.69 | -1.96 | -13.00 | -60.89 |
| 457.77 | S | -72.12 | -73.44 | 3.41 | -2.09 | -13.00 | -59.12 |
| 640.13 | S | -71.08 | -72.00 | 3.60 | -2.67 | -13.00 | -58.08 |
| 767.20 | S | -67.03 | -67.64 | 3.34 | -2.74 | -13.00 | -54.03 |
| 1673.20 | H | -48.22 | -46.97 | 3.01 | -4.26 | -13.00 | -35.22 |
| 2509.80 | H | -50.38 | -48.70 | 3.67 | -5.35 | -13.00 | -37.38 |

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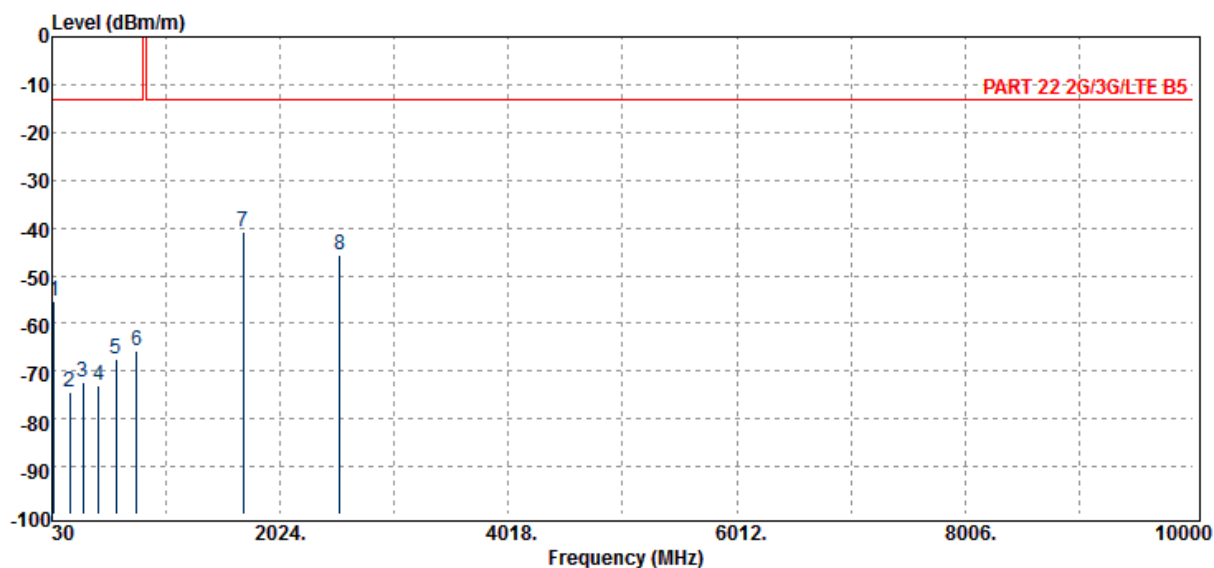
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|-----------------------|------------|--------------------------|-------------------|
| ARFCN | :CH 251 | Test Date | :2015-06-12 |
| Operation Band | :GPRS 850 | Temp./Humi. | :24 deg_C / 60 RH |
| Fundamental Frequency | :848.8 MHz | Engineer | :Curry |
| Operation Mode | :TX HIGH | | |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | ERP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 47.46 | S | -55.37 | -42.59 | -11.89 | -0.89 | -13.00 | -42.37 |
| 182.29 | S | -74.29 | -74.17 | 1.38 | -1.50 | -13.00 | -61.29 |
| 300.63 | S | -72.48 | -74.32 | 3.62 | -1.79 | -13.00 | -59.48 |
| 437.40 | S | -73.03 | -74.41 | 3.41 | -2.03 | -13.00 | -60.03 |
| 592.60 | S | -67.56 | -68.26 | 3.46 | -2.76 | -13.00 | -54.56 |
| 771.08 | S | -65.77 | -66.37 | 3.35 | -2.75 | -13.00 | -52.77 |
| 1697.60 | H | -41.00 | -39.68 | 2.96 | -4.28 | -13.00 | -28.00 |
| 2546.40 | H | -45.78 | -44.12 | 3.75 | -5.41 | -13.00 | -32.78 |

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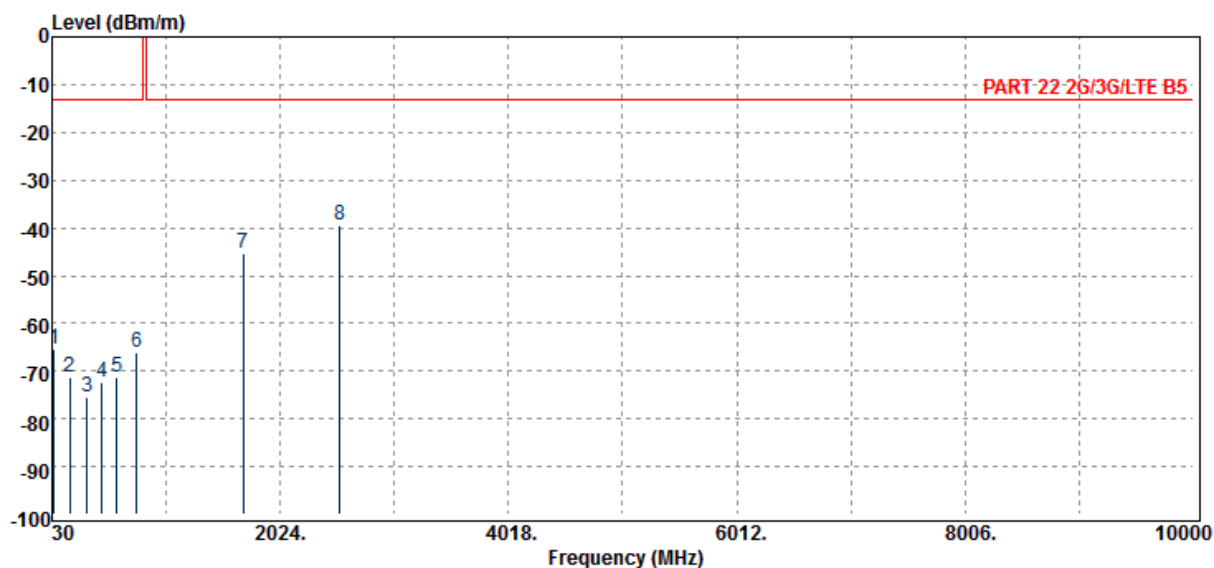
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|-----------------------|------------|--------------------------|-------------------|
| ARFCN | :CH 251 | Test Date | :2015-06-12 |
| Operation Band | :GPRS 850 | Temp./Humi. | :24 deg_C / 60 RH |
| Fundamental Frequency | :848.8 MHz | Engineer | :Curry |
| Operation Mode | :TX HIGH | | |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | ERP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 51.34 | S | -65.34 | -53.38 | -11.05 | -0.92 | -13.00 | -52.34 |
| 186.17 | S | -71.27 | -71.78 | 2.03 | -1.51 | -13.00 | -58.27 |
| 333.61 | S | -75.38 | -77.18 | 3.72 | -1.91 | -13.00 | -62.38 |
| 464.56 | S | -72.36 | -73.73 | 3.47 | -2.11 | -13.00 | -59.36 |
| 595.51 | S | -71.13 | -71.83 | 3.46 | -2.76 | -13.00 | -58.13 |
| 770.11 | S | -66.26 | -66.86 | 3.35 | -2.74 | -13.00 | -53.26 |
| 1697.60 | H | -45.26 | -43.94 | 2.96 | -4.28 | -13.00 | -32.26 |
| 2546.40 | H | -39.47 | -37.82 | 3.75 | -5.41 | -13.00 | -26.47 |

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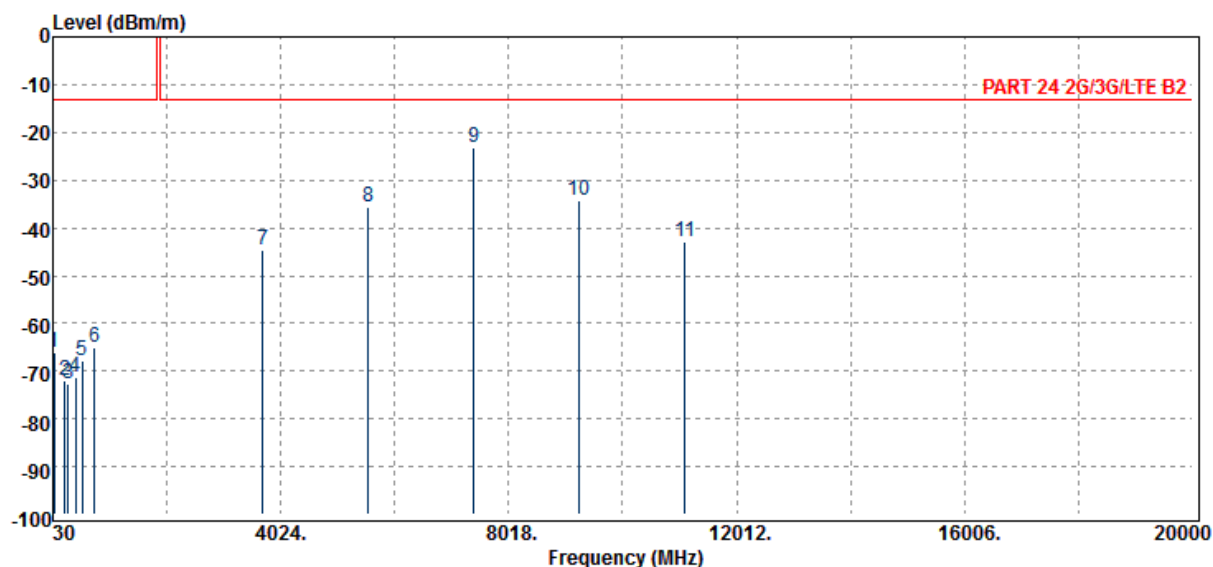
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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| ARFCN | :CH 512 | Test Date | :2015-06-16 |
| Operation Band | :GPRS 1900 | Temp./Humi. | :22 deg_C / 53 RH |
| Fundamental Frequency | :1850.2 MHz | Engineer | :Curry |
| Operation Mode | :TX LOW | | |
| EUT Pol. | :E1 Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | EIRP | SG | Antenna | Cable | Limit | Margin |
|----------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 44.55 | S | -66.04 | -54.93 | -10.24 | -0.87 | -13.00 | -53.04 |
| 238.55 | S | -72.02 | -75.85 | 5.44 | -1.60 | -13.00 | -59.02 |
| 294.81 | S | -72.66 | -76.56 | 5.67 | -1.76 | -13.00 | -59.66 |
| 425.76 | S | -71.27 | -74.91 | 5.62 | -1.99 | -13.00 | -58.27 |
| 540.22 | S | -67.84 | -71.09 | 5.77 | -2.52 | -13.00 | -54.84 |
| 759.44 | S | -65.09 | -67.83 | 5.46 | -2.72 | -13.00 | -52.09 |
| 3700.40 | H | -44.63 | -46.18 | 8.43 | -6.88 | -13.00 | -31.63 |
| 5550.60 | H | -35.75 | -37.31 | 10.10 | -8.55 | -13.00 | -22.75 |
| 7400.80 | H | -23.19 | -25.10 | 11.60 | -9.69 | -13.00 | -10.19 |
| 9251.00 | H | -34.21 | -36.05 | 12.75 | -10.91 | -13.00 | -21.21 |
| 11101.20 | H | -42.82 | -43.80 | 13.04 | -12.07 | -13.00 | -29.82 |

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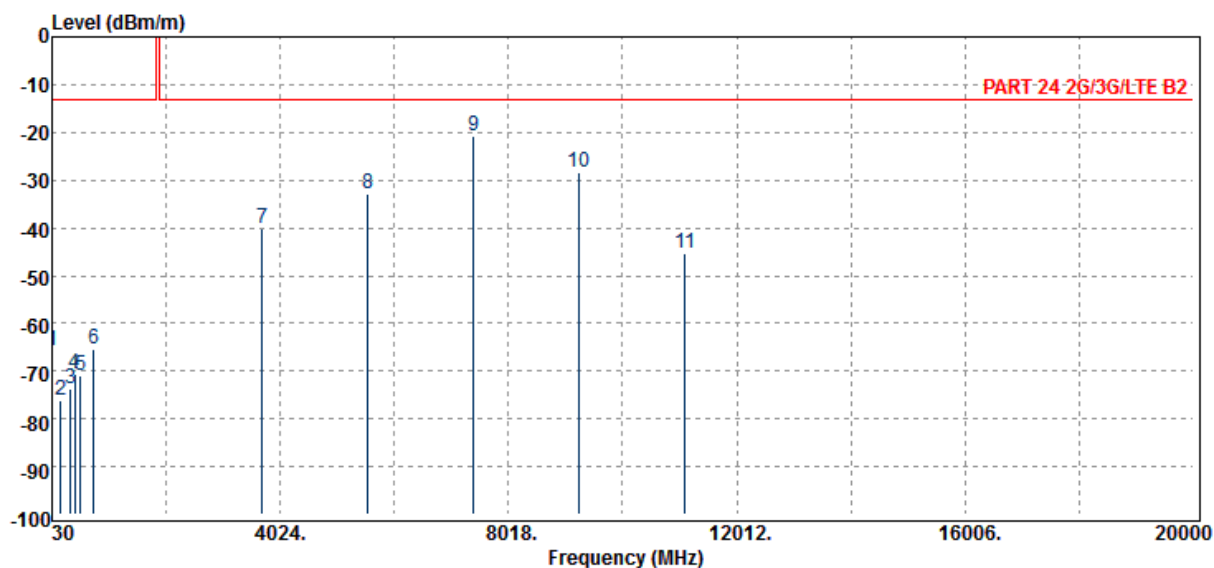
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| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| ARFCN | :CH 512 | Test Date | :2015-06-16 |
| Operation Band | :GPRS 1900 | Temp./Humi. | :22 deg_C / 53 RH |
| Fundamental Frequency | :1850.2 MHz | Engineer | :Curry |
| Operation Mode | :TX LOW | | |
| EUT Pol. | :E1 Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | EIRP | SG | Antenna | Cable | Limit | Margin |
|----------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 32.91 | S | -65.64 | -52.89 | -11.98 | -0.76 | -13.00 | -52.64 |
| 180.35 | S | -76.00 | -77.69 | 3.20 | -1.50 | -13.00 | -63.00 |
| 350.10 | S | -73.73 | -77.67 | 5.91 | -1.97 | -13.00 | -60.73 |
| 434.49 | S | -70.60 | -74.15 | 5.58 | -2.02 | -13.00 | -57.60 |
| 522.76 | S | -70.98 | -74.38 | 5.83 | -2.43 | -13.00 | -57.98 |
| 764.29 | S | -65.48 | -68.22 | 5.48 | -2.73 | -13.00 | -52.48 |
| 3700.40 | H | -40.05 | -41.59 | 8.43 | -6.88 | -13.00 | -27.05 |
| 5550.60 | H | -32.82 | -34.37 | 10.10 | -8.55 | -13.00 | -19.82 |
| 7400.80 | H | -20.63 | -22.54 | 11.60 | -9.69 | -13.00 | -7.63 |
| 9251.00 | H | -28.40 | -30.23 | 12.75 | -10.91 | -13.00 | -15.40 |
| 11101.20 | H | -45.33 | -46.30 | 13.04 | -12.07 | -13.00 | -32.33 |

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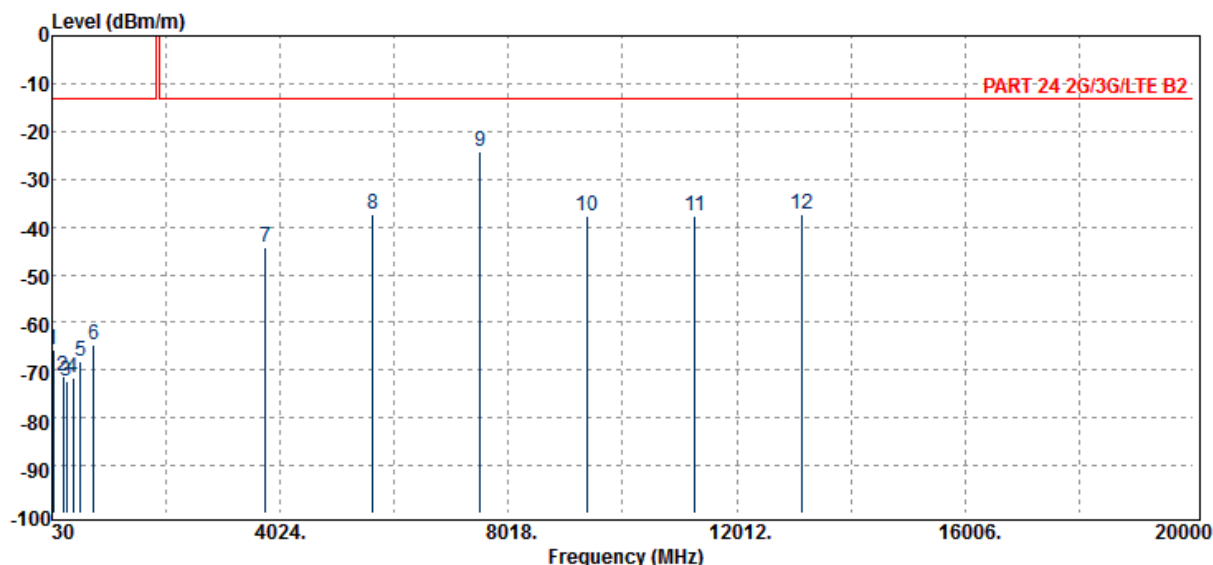
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|-----------------------|-------------|--------------------------|-------------------|
| ARFCN | :CH 661 | Test Date | :2015-06-16 |
| Operation Band | :GPRS 1900 | Temp./Humi. | :22 deg_C / 53 RH |
| Fundamental Frequency | :1880.0 MHz | Engineer | :Curry |
| Operation Mode | :TX MID | | |
| EUT Pol. | :E1 Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | EIRP | SG | Antenna | Cable | Limit | Margin |
|----------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 44.55 | S | -65.74 | -54.63 | -10.24 | -0.87 | -13.00 | -52.74 |
| 219.15 | S | -71.21 | -75.16 | 5.51 | -1.56 | -13.00 | -58.21 |
| 287.05 | S | -72.39 | -76.20 | 5.55 | -1.74 | -13.00 | -59.39 |
| 405.39 | S | -71.52 | -75.31 | 5.74 | -1.94 | -13.00 | -58.52 |
| 528.58 | S | -68.04 | -71.39 | 5.81 | -2.46 | -13.00 | -55.04 |
| 764.29 | S | -64.64 | -67.38 | 5.48 | -2.73 | -13.00 | -51.64 |
| 3760.00 | H | -44.46 | -45.90 | 8.46 | -7.02 | -13.00 | -31.46 |
| 5640.00 | H | -37.48 | -39.00 | 10.11 | -8.59 | -13.00 | -24.48 |
| 7520.00 | H | -24.39 | -26.40 | 11.72 | -9.71 | -13.00 | -11.39 |
| 9400.00 | H | -37.57 | -39.29 | 12.72 | -11.00 | -13.00 | -24.57 |
| 11280.00 | H | -37.83 | -38.63 | 13.11 | -12.32 | -13.00 | -24.83 |
| 13160.00 | H | -37.54 | -37.34 | 13.56 | -13.77 | -13.00 | -24.54 |

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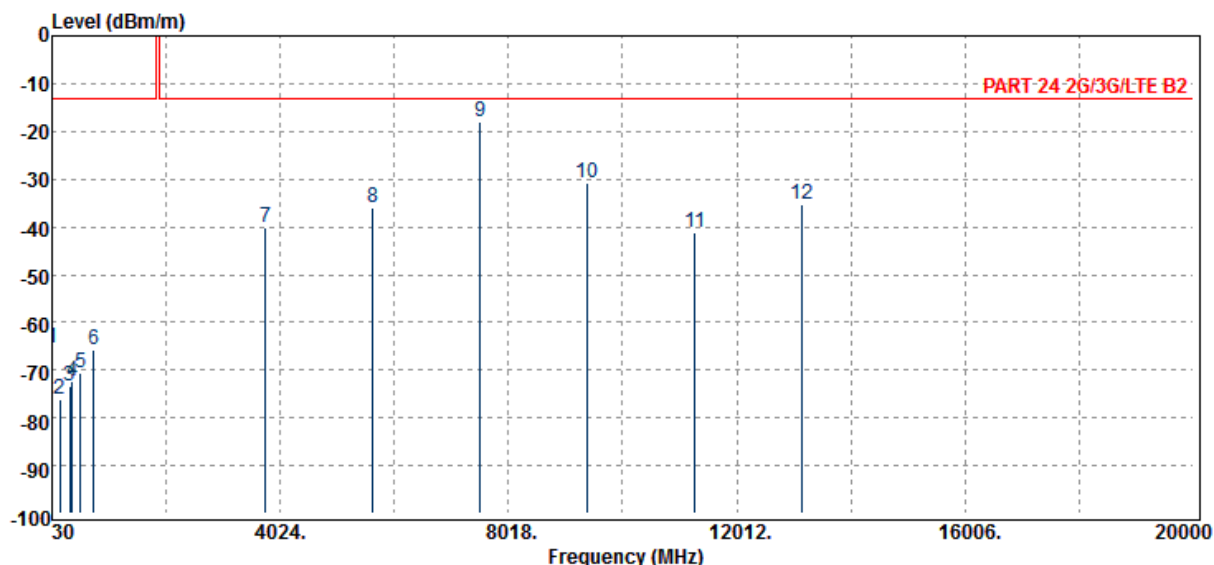
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| ARFCN | :CH 661 | Test Date | :2015-06-16 |
| Operation Band | :GPRS 1900 | Temp./Humi. | :22 deg_C / 53 RH |
| Fundamental Frequency | :1880.0 MHz | Engineer | :Curry |
| Operation Mode | :TX MID | | |
| EUT Pol. | :E1 Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | EIRP | SG | Antenna | Cable | Limit | Margin |
|----------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 30.97 | S | -65.57 | -52.35 | -12.47 | -0.74 | -13.00 | -52.57 |
| 173.56 | S | -76.22 | -76.78 | 2.05 | -1.49 | -13.00 | -63.22 |
| 341.37 | S | -73.33 | -77.28 | 5.89 | -1.94 | -13.00 | -60.33 |
| 382.11 | S | -72.24 | -76.11 | 5.82 | -1.95 | -13.00 | -59.24 |
| 529.55 | S | -70.75 | -74.09 | 5.81 | -2.47 | -13.00 | -57.75 |
| 764.29 | S | -65.87 | -68.61 | 5.48 | -2.73 | -13.00 | -52.87 |
| 3760.00 | H | -40.26 | -41.70 | 8.46 | -7.02 | -13.00 | -27.26 |
| 5640.00 | H | -36.00 | -37.52 | 10.11 | -8.59 | -13.00 | -23.00 |
| 7520.00 | H | -18.02 | -20.02 | 11.72 | -9.71 | -13.00 | -5.02 |
| 9400.00 | H | -30.89 | -32.62 | 12.72 | -11.00 | -13.00 | -17.89 |
| 11280.00 | H | -41.26 | -42.05 | 13.11 | -12.32 | -13.00 | -28.26 |
| 13160.00 | H | -35.21 | -35.01 | 13.56 | -13.77 | -13.00 | -22.21 |

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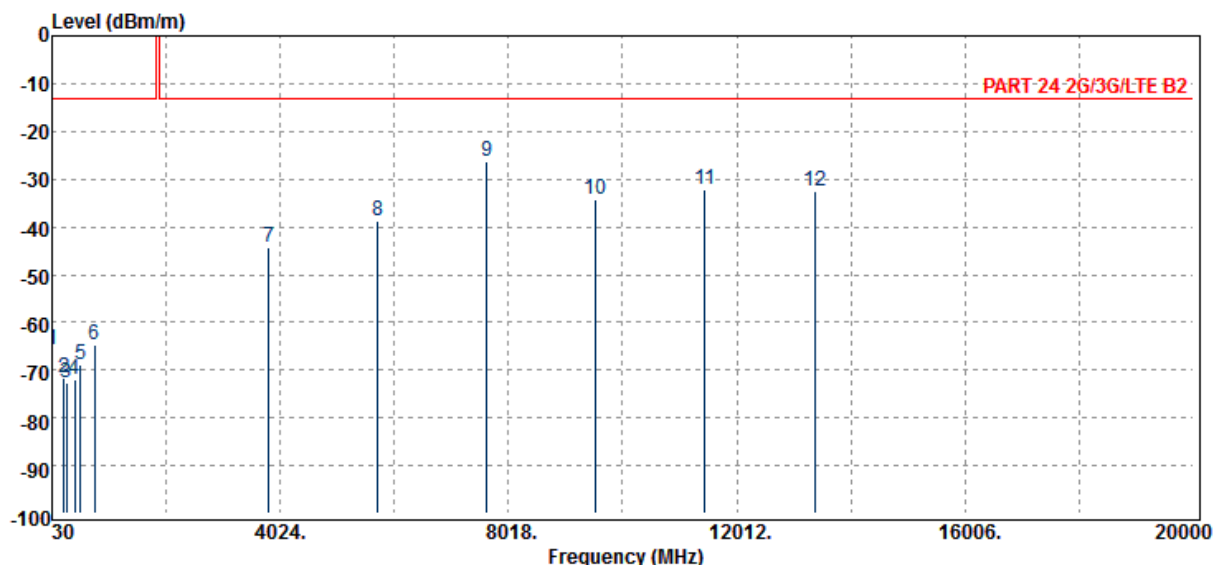
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|-----------------------|-------------|--------------------------|-------------------|
| ARFCN | :CH 810 | Test Date | :2015-06-16 |
| Operation Band | :GPRS 1900 | Temp./Humi. | :22 deg_C / 53 RH |
| Fundamental Frequency | :1909.8 MHz | Engineer | :Curry |
| Operation Mode | :TX HIGH | | |
| EUT Pol. | :E1 Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | EIRP | SG | Antenna | Cable | Limit | Margin |
|----------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 30.00 | S | -65.88 | -52.42 | -12.73 | -0.73 | -13.00 | -52.88 |
| 238.55 | S | -71.63 | -75.47 | 5.44 | -1.60 | -13.00 | -58.63 |
| 288.99 | S | -72.67 | -76.50 | 5.57 | -1.74 | -13.00 | -59.67 |
| 433.52 | S | -71.88 | -75.44 | 5.58 | -2.02 | -13.00 | -58.88 |
| 524.70 | S | -68.81 | -72.20 | 5.82 | -2.44 | -13.00 | -55.81 |
| 777.87 | S | -64.65 | -67.41 | 5.52 | -2.77 | -13.00 | -51.65 |
| 3819.60 | H | -44.45 | -45.90 | 8.50 | -7.05 | -13.00 | -31.45 |
| 5729.40 | H | -38.64 | -40.12 | 10.12 | -8.64 | -13.00 | -25.64 |
| 7639.20 | H | -26.38 | -28.40 | 11.81 | -9.79 | -13.00 | -13.38 |
| 9549.00 | H | -34.19 | -35.80 | 12.69 | -11.08 | -13.00 | -21.19 |
| 11458.80 | H | -32.11 | -32.83 | 13.18 | -12.46 | -13.00 | -19.11 |
| 13368.60 | H | -32.69 | -32.38 | 13.77 | -14.09 | -13.00 | -19.69 |

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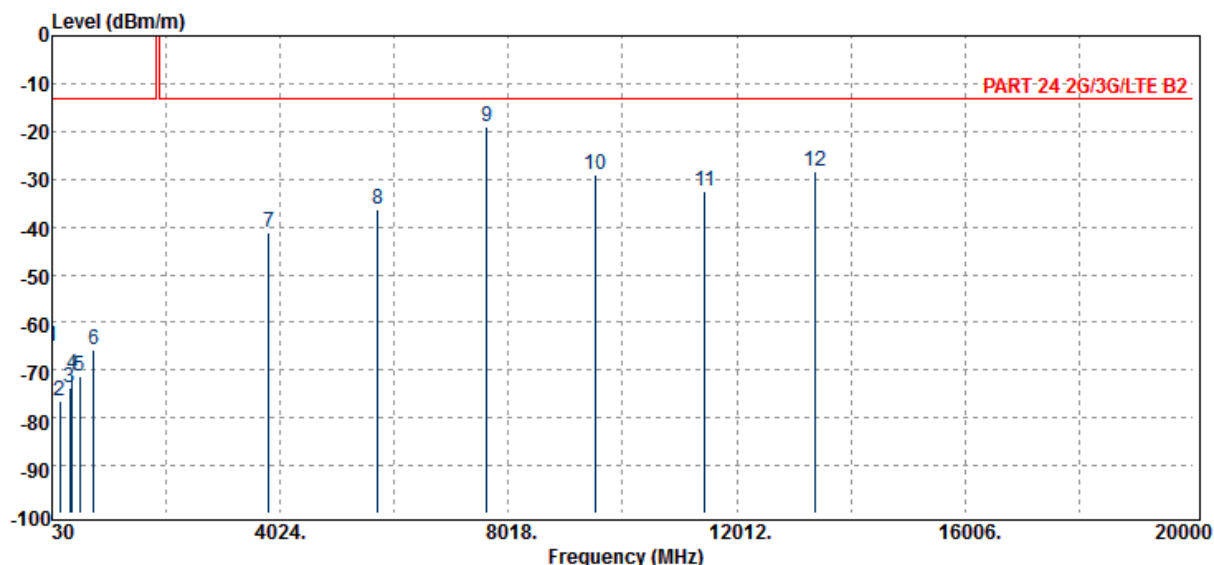
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| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| ARFCN | :CH 810 | Test Date | :2015-06-16 |
| Operation Band | :GPRS 1900 | Temp./Humi. | :22 deg_C / 53 RH |
| Fundamental Frequency | :1909.8 MHz | Engineer | :Curry |
| Operation Mode | :TX HIGH | | |
| EUT Pol. | :E1 Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | EIRP | SG | Antenna | Cable | Limit | Margin |
|----------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 31.94 | S | -65.02 | -52.04 | -12.22 | -0.75 | -13.00 | -52.02 |
| 172.59 | S | -76.52 | -76.92 | 1.89 | -1.49 | -13.00 | -63.52 |
| 338.46 | S | -73.77 | -77.72 | 5.88 | -1.93 | -13.00 | -60.77 |
| 389.87 | S | -71.04 | -74.89 | 5.80 | -1.95 | -13.00 | -58.04 |
| 513.06 | S | -71.36 | -74.85 | 5.86 | -2.38 | -13.00 | -58.36 |
| 759.44 | S | -65.83 | -68.57 | 5.46 | -2.72 | -13.00 | -52.83 |
| 3819.60 | H | -41.20 | -42.64 | 8.50 | -7.05 | -13.00 | -28.20 |
| 5729.40 | H | -36.31 | -37.79 | 10.12 | -8.64 | -13.00 | -23.31 |
| 7639.20 | H | -19.17 | -21.19 | 11.81 | -9.79 | -13.00 | -6.17 |
| 9549.00 | H | -28.96 | -30.57 | 12.69 | -11.08 | -13.00 | -15.96 |
| 11458.80 | H | -32.38 | -33.10 | 13.18 | -12.46 | -13.00 | -19.38 |
| 13368.60 | H | -28.52 | -28.21 | 13.77 | -14.09 | -13.00 | -15.52 |

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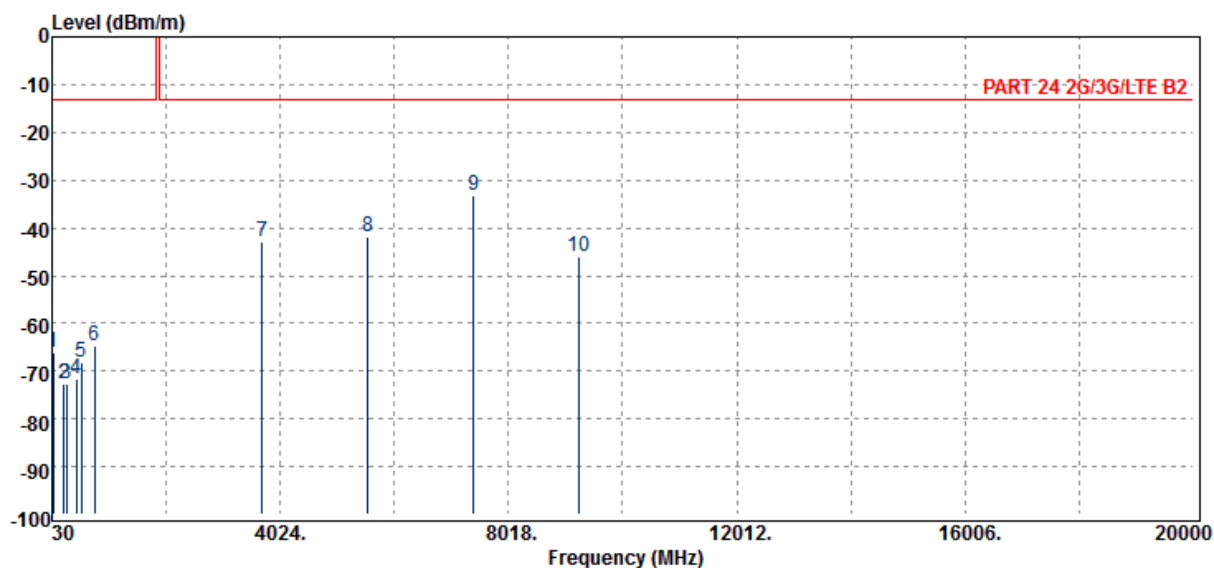
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Radiated Spurious Emission Measurement Result: HSUPA II Mode

| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| ARFCN | :CH 9262 | Test Date | :2015-06-16 |
| Operation Band | :HSUPA B2 | Temp./Humi. | :22 deg_C / 53 RH |
| Fundamental Frequency | :1852.4 MHz | Engineer | :Curry |
| Operation Mode | :TX LOW | | |
| EUT Pol. | :E1 Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 44.55 | S | -66.15 | -55.04 | -10.24 | -0.87 | -13.00 | -53.15 |
| 242.43 | S | -72.82 | -76.67 | 5.47 | -1.62 | -13.00 | -59.82 |
| 278.32 | S | -72.74 | -76.54 | 5.52 | -1.72 | -13.00 | -59.74 |
| 450.01 | S | -71.75 | -75.18 | 5.49 | -2.07 | -13.00 | -58.75 |
| 537.31 | S | -68.13 | -71.40 | 5.78 | -2.51 | -13.00 | -55.13 |
| 769.14 | S | -64.87 | -67.63 | 5.49 | -2.74 | -13.00 | -51.87 |
| 3704.80 | H | -42.95 | -44.49 | 8.43 | -6.89 | -13.00 | -29.95 |
| 5557.20 | H | -42.00 | -43.57 | 10.10 | -8.54 | -13.00 | -29.00 |
| 7409.60 | H | -33.14 | -35.04 | 11.61 | -9.71 | -13.00 | -20.14 |
| 9262.00 | H | -45.87 | -47.72 | 12.75 | -10.90 | -13.00 | -32.87 |

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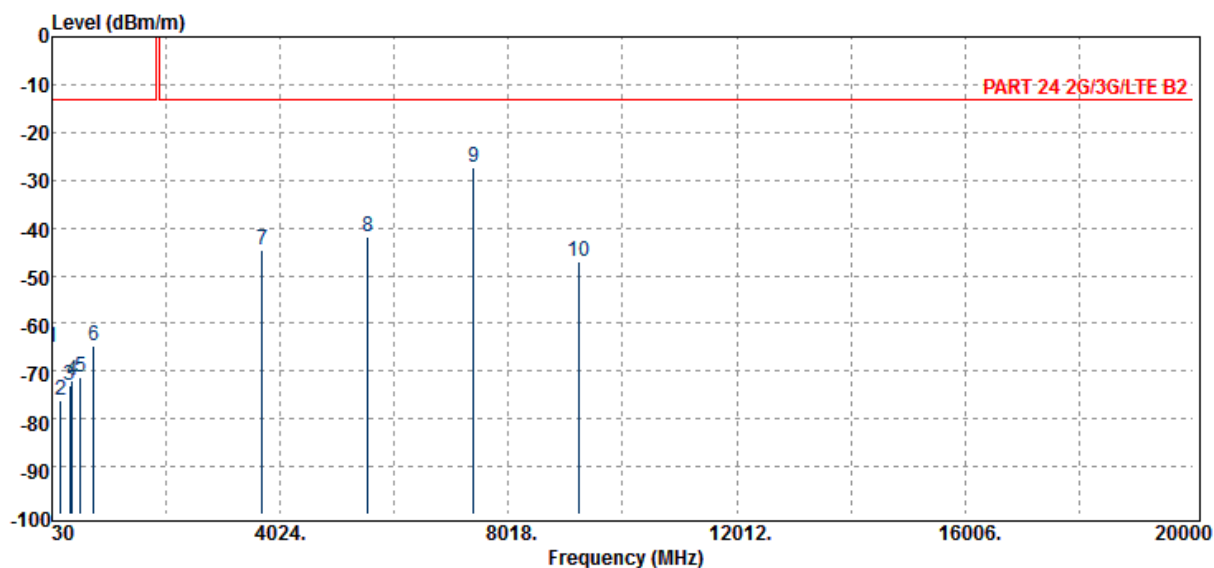
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| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| ARFCN | :CH 9262 | Test Date | :2015-06-16 |
| Operation Band | :HSUPA B2 | Temp./Humi. | :22 deg_C / 53 RH |
| Fundamental Frequency | :1852.4 MHz | Engineer | :Curry |
| Operation Mode | :TX LOW | | |
| EUT Pol. | :E1 Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 31.94 | S | -64.93 | -51.96 | -12.22 | -0.75 | -13.00 | -51.93 |
| 174.53 | S | -76.13 | -76.86 | 2.22 | -1.49 | -13.00 | -63.13 |
| 343.31 | S | -72.91 | -76.86 | 5.89 | -1.94 | -13.00 | -59.91 |
| 385.02 | S | -71.85 | -75.71 | 5.81 | -1.95 | -13.00 | -58.85 |
| 523.73 | S | -71.28 | -74.67 | 5.83 | -2.43 | -13.00 | -58.28 |
| 766.23 | S | -64.88 | -67.63 | 5.48 | -2.73 | -13.00 | -51.88 |
| 3704.80 | H | -44.58 | -46.12 | 8.43 | -6.89 | -13.00 | -31.58 |
| 5557.20 | H | -42.01 | -43.58 | 10.10 | -8.54 | -13.00 | -29.01 |
| 7409.60 | H | -27.27 | -29.17 | 11.61 | -9.71 | -13.00 | -14.27 |
| 9262.00 | H | -47.12 | -48.97 | 12.75 | -10.90 | -13.00 | -34.12 |

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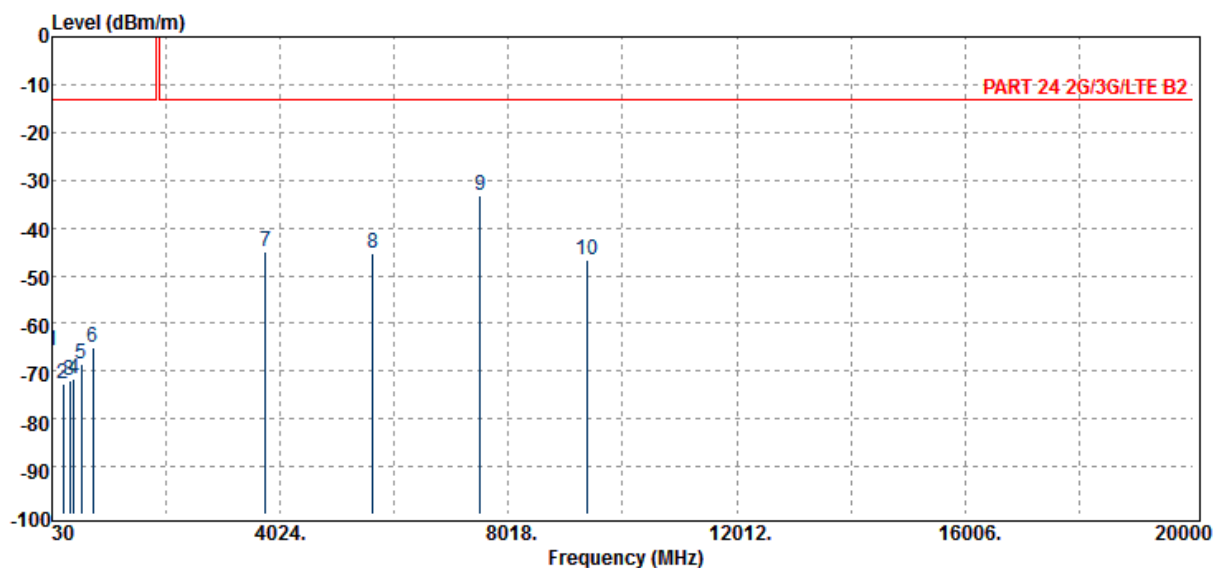
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|-----------------------|-------------|--------------------------|-------------------|
| ARFCN | :CH 9400 | Test Date | :2015-06-16 |
| Operation Band | :HSUPA B2 | Temp./Humi. | :22 deg_C / 53 RH |
| Fundamental Frequency | :1880.0 MHz | Engineer | :Curry |
| Operation Mode | :TX MID | | |
| EUT Pol. | :E1 Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 30.97 | S | -65.79 | -52.58 | -12.47 | -0.74 | -13.00 | -52.79 |
| 223.03 | S | -72.62 | -76.52 | 5.47 | -1.57 | -13.00 | -59.62 |
| 335.55 | S | -71.94 | -75.90 | 5.87 | -1.92 | -13.00 | -58.94 |
| 416.06 | S | -71.48 | -75.20 | 5.68 | -1.96 | -13.00 | -58.48 |
| 542.16 | S | -68.64 | -71.87 | 5.76 | -2.53 | -13.00 | -55.64 |
| 741.01 | S | -65.15 | -67.93 | 5.45 | -2.67 | -13.00 | -52.15 |
| 3760.00 | H | -45.00 | -46.44 | 8.46 | -7.02 | -13.00 | -32.00 |
| 5640.00 | H | -45.22 | -46.74 | 10.11 | -8.59 | -13.00 | -32.22 |
| 7520.00 | H | -33.22 | -35.23 | 11.72 | -9.71 | -13.00 | -20.22 |
| 9400.00 | H | -46.62 | -48.35 | 12.72 | -11.00 | -13.00 | -33.62 |

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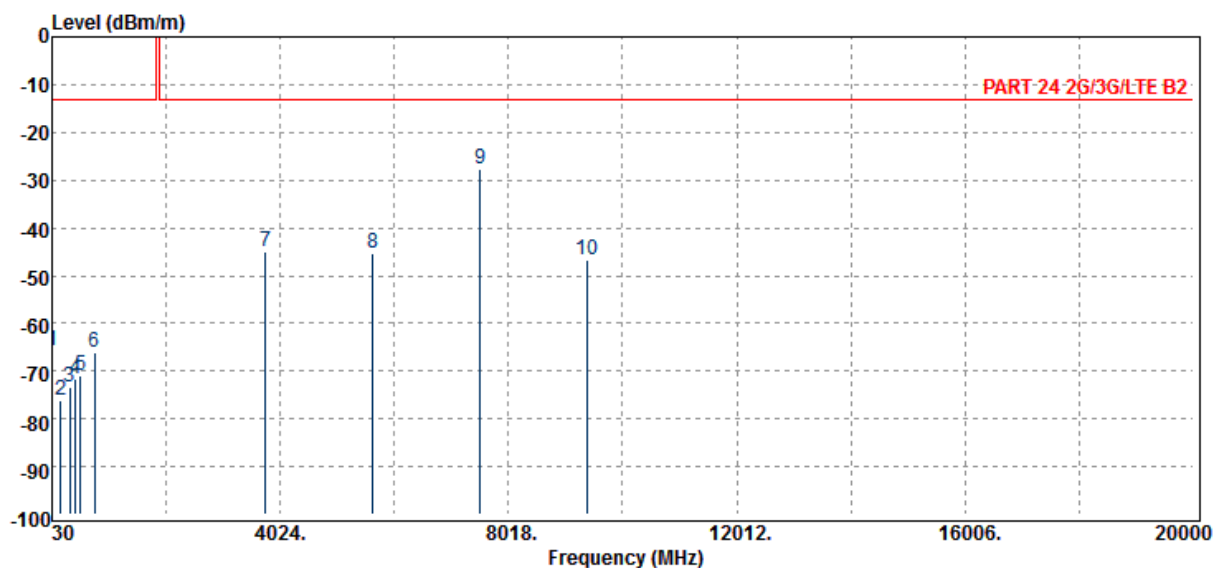
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|-----------------------|-------------|--------------------------|-------------------|
| ARFCN | :CH 9400 | Test Date | :2015-06-16 |
| Operation Band | :HSUPA B2 | Temp./Humi. | :22 deg_C / 53 RH |
| Fundamental Frequency | :1880.0 MHz | Engineer | :Curry |
| Operation Mode | :TX MID | | |
| EUT Pol. | :E1 Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 32.91 | S | -65.62 | -52.88 | -11.98 | -0.76 | -13.00 | -52.62 |
| 174.53 | S | -76.17 | -76.90 | 2.22 | -1.49 | -13.00 | -63.17 |
| 346.22 | S | -73.49 | -77.43 | 5.90 | -1.95 | -13.00 | -60.49 |
| 436.43 | S | -71.58 | -75.13 | 5.57 | -2.02 | -13.00 | -58.58 |
| 525.67 | S | -70.87 | -74.25 | 5.82 | -2.44 | -13.00 | -57.87 |
| 768.17 | S | -66.08 | -68.83 | 5.49 | -2.74 | -13.00 | -53.08 |
| 3760.00 | H | -45.13 | -46.57 | 8.46 | -7.02 | -13.00 | -32.13 |
| 5640.00 | H | -45.18 | -46.70 | 10.11 | -8.59 | -13.00 | -32.18 |
| 7520.00 | H | -27.67 | -29.67 | 11.72 | -9.71 | -13.00 | -14.67 |
| 9400.00 | H | -46.62 | -48.34 | 12.72 | -11.00 | -13.00 | -33.62 |

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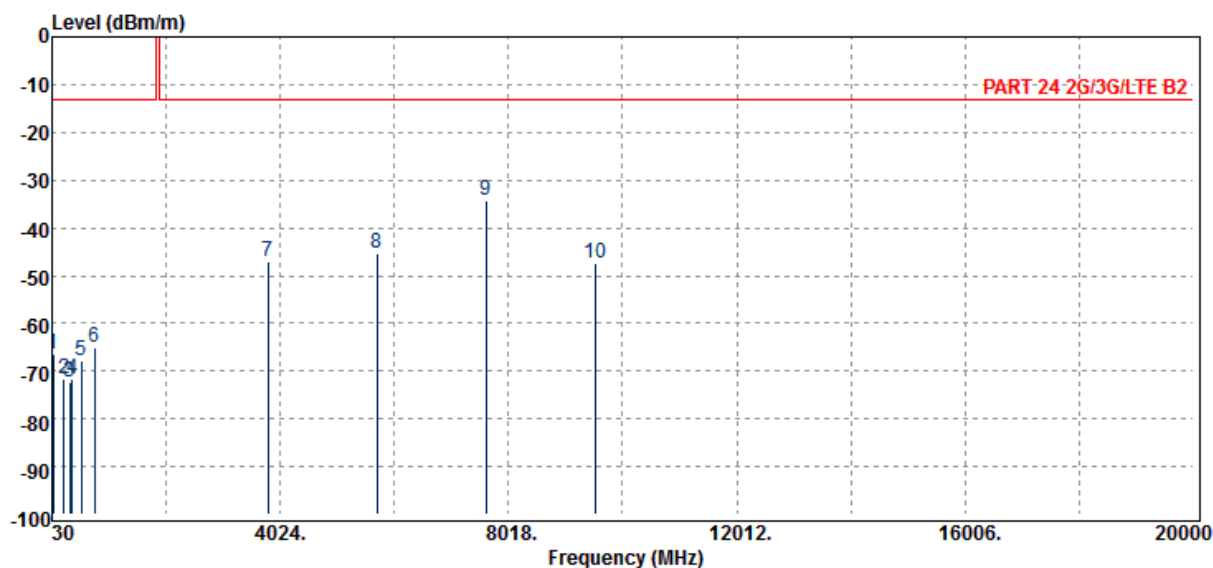
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|-----------------------|-------------|--------------------------|-------------------|
| ARFCN | :CH 9538 | Test Date | :2015-06-16 |
| Operation Band | :HSUPA B2 | Temp./Humi. | :22 deg_C / 53 RH |
| Fundamental Frequency | :1907.6 MHz | Engineer | :Curry |
| Operation Mode | :TX HIGH | | |
| EUT Pol. | :E1 Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 44.55 | S | -66.58 | -55.47 | -10.24 | -0.87 | -13.00 | -53.58 |
| 236.61 | S | -71.75 | -75.59 | 5.44 | -1.60 | -13.00 | -58.75 |
| 347.19 | S | -72.24 | -76.18 | 5.90 | -1.96 | -13.00 | -59.24 |
| 388.90 | S | -71.76 | -75.61 | 5.80 | -1.95 | -13.00 | -58.76 |
| 543.13 | S | -67.98 | -71.20 | 5.76 | -2.54 | -13.00 | -54.98 |
| 776.90 | S | -64.89 | -67.64 | 5.52 | -2.77 | -13.00 | -51.89 |
| 3815.20 | H | -47.10 | -48.55 | 8.49 | -7.05 | -13.00 | -34.10 |
| 5722.80 | H | -45.16 | -46.65 | 10.12 | -8.63 | -13.00 | -32.16 |
| 7630.40 | H | -34.10 | -36.12 | 11.81 | -9.78 | -13.00 | -21.10 |
| 9538.00 | H | -47.43 | -49.06 | 12.69 | -11.07 | -13.00 | -34.43 |

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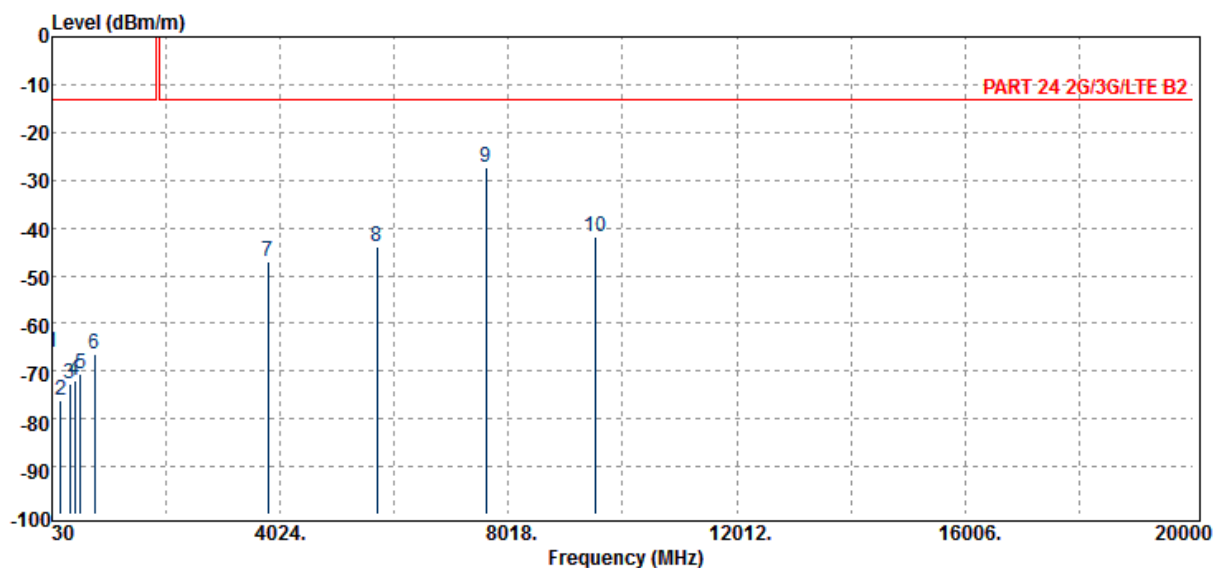
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| ARFCN | :CH 9538 | Test Date | :2015-06-16 |
| Operation Band | :HSUPA B2 | Temp./Humi. | :22 deg_C / 53 RH |
| Fundamental Frequency | :1907.6 MHz | Engineer | :Curry |
| Operation Mode | :TX HIGH | | |
| EUT Pol. | :E1 Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 30.97 | S | -66.19 | -52.97 | -12.47 | -0.74 | -13.00 | -53.19 |
| 179.38 | S | -76.28 | -77.81 | 3.03 | -1.50 | -13.00 | -63.28 |
| 340.40 | S | -72.56 | -76.51 | 5.89 | -1.93 | -13.00 | -59.56 |
| 421.88 | S | -71.85 | -75.51 | 5.65 | -1.98 | -13.00 | -58.85 |
| 527.61 | S | -70.60 | -73.96 | 5.81 | -2.46 | -13.00 | -57.60 |
| 769.14 | S | -66.32 | -69.07 | 5.49 | -2.74 | -13.00 | -53.32 |
| 3815.20 | H | -47.20 | -48.64 | 8.49 | -7.05 | -13.00 | -34.20 |
| 5722.80 | H | -43.92 | -45.41 | 10.12 | -8.63 | -13.00 | -30.92 |
| 7630.40 | H | -27.41 | -29.44 | 11.81 | -9.78 | -13.00 | -14.41 |
| 9538.00 | H | -41.78 | -43.40 | 12.69 | -11.07 | -13.00 | -28.78 |

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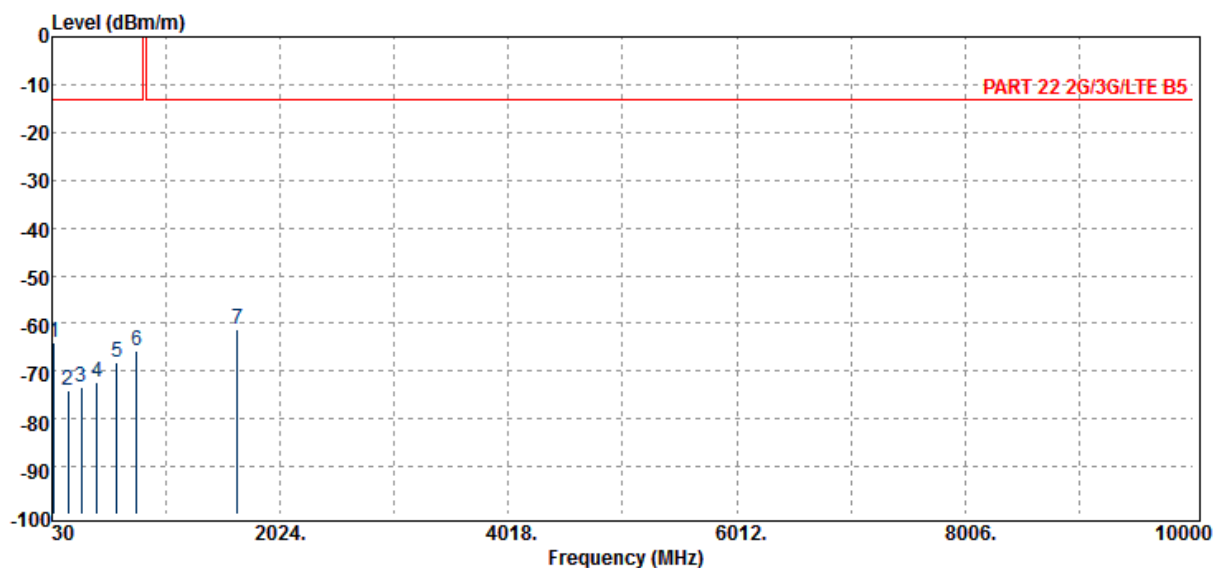
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**Radiated Spurious Emission Measurement Result: HSUPA V Mode**

| | | | |
|-----------------------|------------|--------------------------|-------------------|
| ARFCN | :CH 4132 | Test Date | :2015-06-12 |
| Operation Band | :HSUPA B5 | Temp./Humi. | :24 deg_C / 60 RH |
| Fundamental Frequency | :826.4 MHz | Engineer | :Curry |
| Operation Mode | :TX LOW | | |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | ERP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 48.43 | S | -64.00 | -51.39 | -11.72 | -0.90 | -13.00 | -51.00 |
| 173.56 | S | -74.04 | -72.45 | -0.10 | -1.49 | -13.00 | -61.04 |
| 286.08 | S | -73.19 | -74.84 | 3.39 | -1.73 | -13.00 | -60.19 |
| 420.91 | S | -72.28 | -73.81 | 3.50 | -1.98 | -13.00 | -59.28 |
| 595.51 | S | -68.21 | -68.91 | 3.46 | -2.76 | -13.00 | -55.21 |
| 767.20 | S | -65.62 | -66.22 | 3.34 | -2.74 | -13.00 | -52.62 |
| 1652.80 | H | -61.22 | -60.05 | 3.05 | -4.22 | -13.00 | -48.22 |

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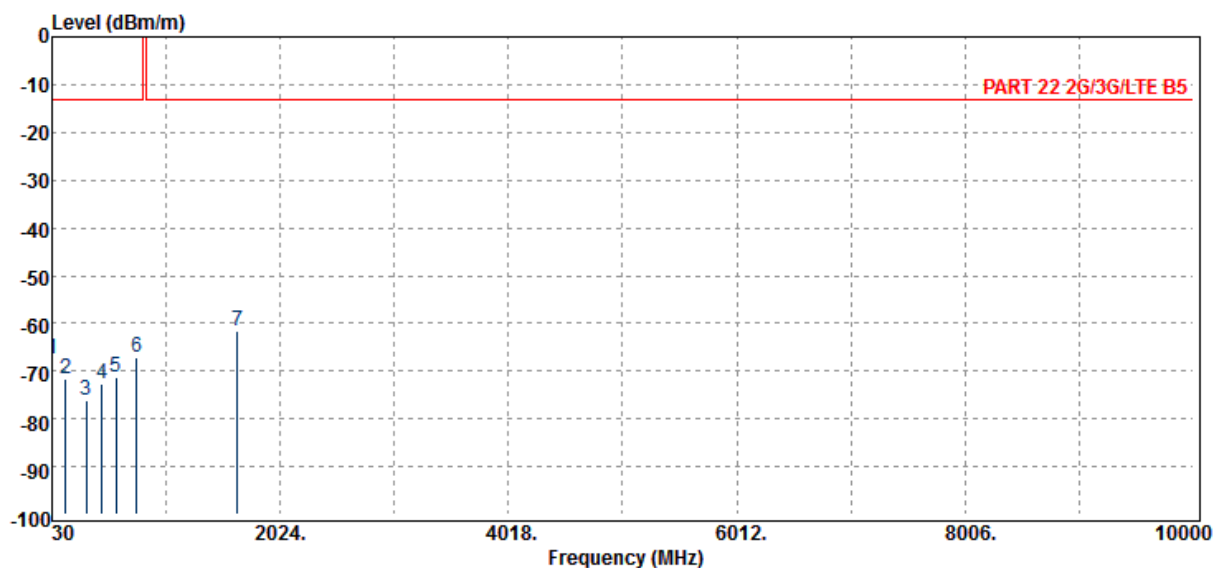
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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| ARFCN | :CH 4132 | Test Date | :2015-06-12 |
| Operation Band | :HSUPA B5 | Temp./Humi. | :24 deg_C / 60 RH |
| Fundamental Frequency | :826.4 MHz | Engineer | :Curry |
| Operation Mode | :TX LOW | | |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | ERP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 30.00 | S | -67.60 | -51.99 | -14.88 | -0.73 | -13.00 | -54.60 |
| 147.37 | S | -71.74 | -68.14 | -2.23 | -1.37 | -13.00 | -58.74 |
| 326.82 | S | -76.26 | -78.07 | 3.70 | -1.89 | -13.00 | -63.26 |
| 466.50 | S | -72.76 | -74.14 | 3.49 | -2.11 | -13.00 | -59.76 |
| 588.72 | S | -71.16 | -71.88 | 3.47 | -2.76 | -13.00 | -58.16 |
| 766.23 | S | -67.20 | -67.80 | 3.33 | -2.73 | -13.00 | -54.20 |
| 1652.80 | H | -61.49 | -60.32 | 3.05 | -4.22 | -13.00 | -48.49 |

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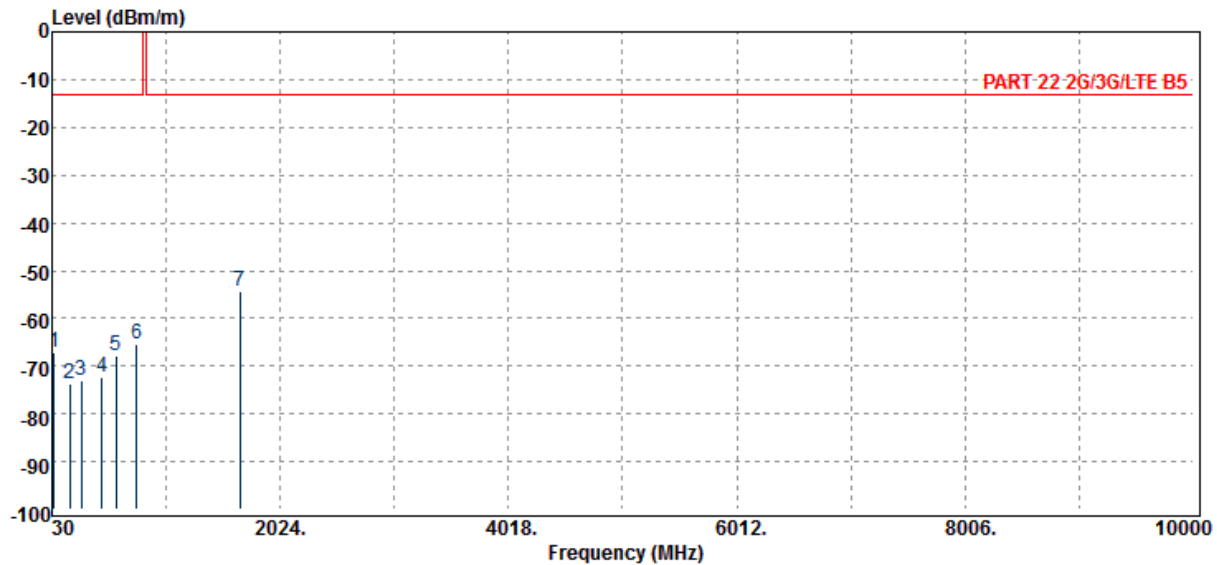
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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| ARFCN | :CH 4183 | Test Date | :2015-06-12 |
| Operation Band | :HSUPA B5 | Temp./Humi. | :24 deg_C / 60 RH |
| Fundamental Frequency | :836.6 MHz | Engineer | :Curry |
| Operation Mode | :TX MID | | |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | ERP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 47.46 | S | -67.08 | -54.29 | -11.89 | -0.89 | -13.00 | -54.08 |
| 186.17 | S | -73.72 | -74.23 | 2.03 | -1.51 | -13.00 | -60.72 |
| 287.05 | S | -73.12 | -74.78 | 3.40 | -1.74 | -13.00 | -60.12 |
| 465.53 | S | -72.35 | -73.72 | 3.48 | -2.11 | -13.00 | -59.35 |
| 591.63 | S | -67.87 | -68.57 | 3.47 | -2.76 | -13.00 | -54.87 |
| 769.14 | S | -65.52 | -66.13 | 3.34 | -2.74 | -13.00 | -52.52 |
| 1673.20 | H | -54.49 | -53.24 | 3.01 | -4.26 | -13.00 | -41.49 |

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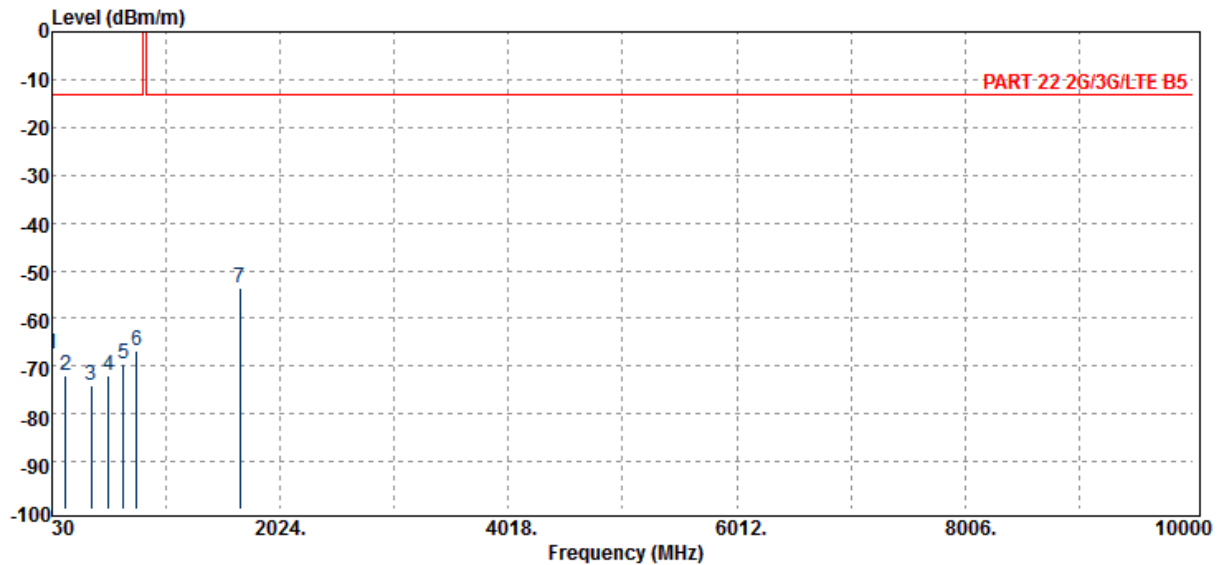
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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| ARFCN | :CH 4183 | Test Date | :2015-06-12 |
| Operation Band | :HSUPA B5 | Temp./Humi. | :24 deg_C / 60 RH |
| Fundamental Frequency | :836.6 MHz | Engineer | :Curry |
| Operation Mode | :TX MID | | |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | ERP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 30.97 | S | -67.52 | -52.16 | -14.62 | -0.74 | -13.00 | -54.52 |
| 145.43 | S | -71.94 | -68.25 | -2.32 | -1.36 | -13.00 | -58.94 |
| 374.35 | S | -73.94 | -75.67 | 3.69 | -1.96 | -13.00 | -60.94 |
| 527.61 | S | -72.05 | -73.26 | 3.66 | -2.46 | -13.00 | -59.05 |
| 651.77 | S | -69.68 | -70.65 | 3.63 | -2.66 | -13.00 | -56.68 |
| 773.02 | S | -66.88 | -67.49 | 3.36 | -2.75 | -13.00 | -53.88 |
| 1673.20 | H | -53.51 | -52.26 | 3.01 | -4.26 | -13.00 | -40.51 |

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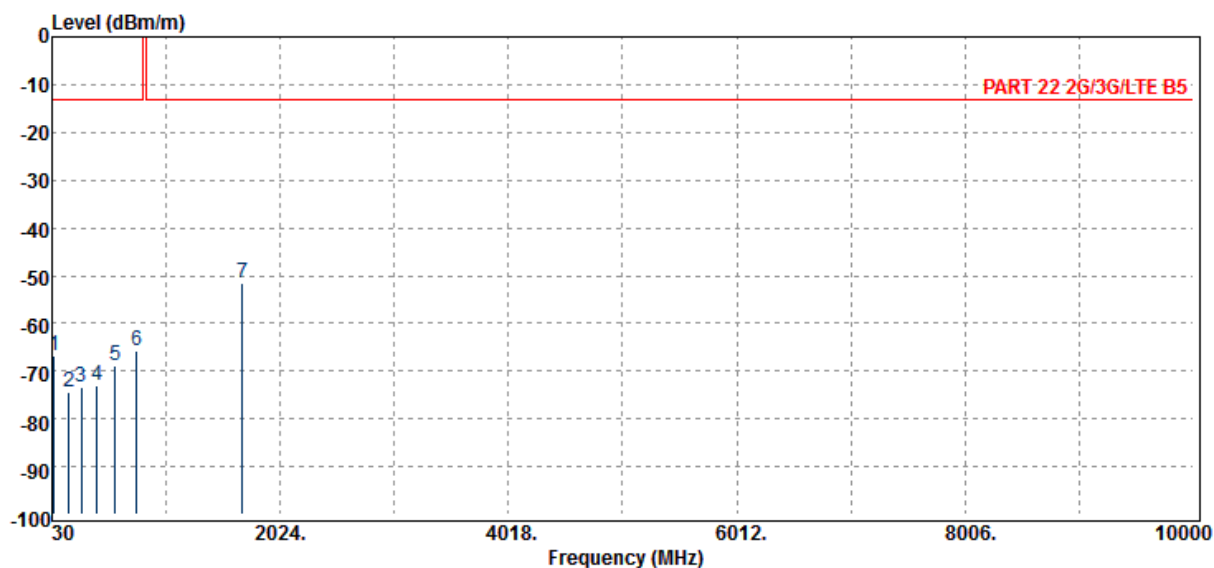
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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| ARFCN | :CH 4233 | Test Date | :2015-06-12 |
| Operation Band | :HSUPA B5 | Temp./Humi. | :24 deg_C / 60 RH |
| Fundamental Frequency | :846.6 MHz | Engineer | :Curry |
| Operation Mode | :TX HIGH | | |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | ERP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 47.46 | S | -66.63 | -53.85 | -11.89 | -0.89 | -13.00 | -53.63 |
| 178.41 | S | -74.25 | -73.47 | 0.72 | -1.50 | -13.00 | -61.25 |
| 286.08 | S | -73.21 | -74.87 | 3.39 | -1.73 | -13.00 | -60.21 |
| 421.88 | S | -73.01 | -74.52 | 3.50 | -1.98 | -13.00 | -60.01 |
| 581.93 | S | -68.77 | -69.53 | 3.49 | -2.73 | -13.00 | -55.77 |
| 770.11 | S | -65.92 | -66.52 | 3.35 | -2.74 | -13.00 | -52.92 |
| 1693.20 | H | -51.70 | -50.40 | 2.97 | -4.27 | -13.00 | -38.70 |

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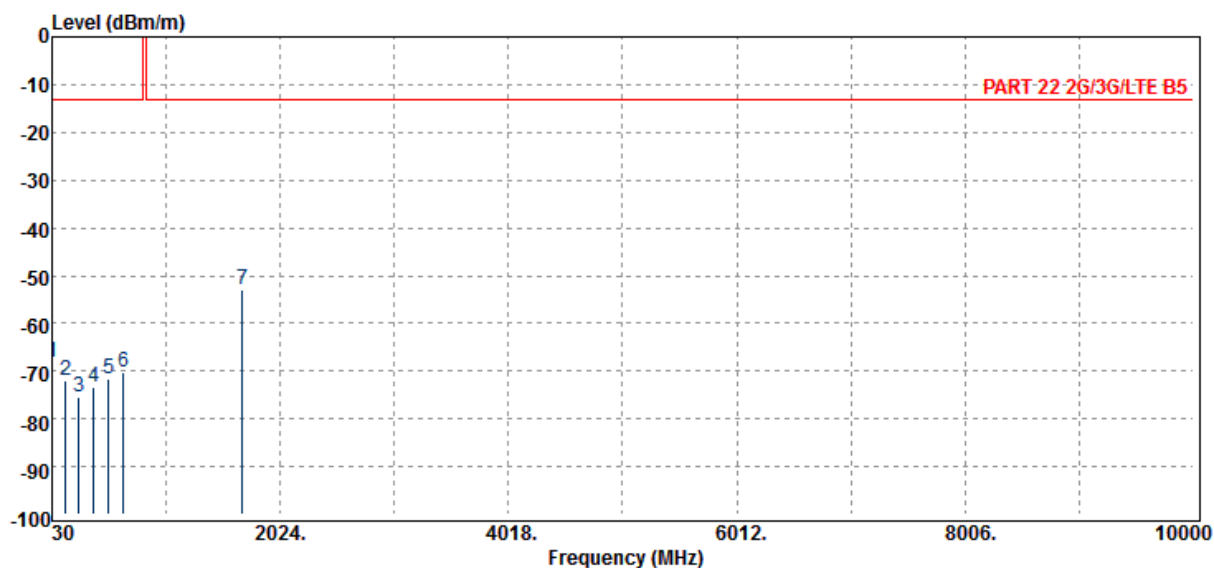
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|-----------------------|------------|--------------------------|-------------------|
| ARFCN | :CH 4233 | Test Date | :2015-06-12 |
| Operation Band | :HSUPA B5 | Temp./Humi. | :24 deg_C / 60 RH |
| Fundamental Frequency | :846.6 MHz | Engineer | :Curry |
| Operation Mode | :TX HIGH | | |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | ERP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 32.91 | S | -68.17 | -53.28 | -14.13 | -0.76 | -13.00 | -55.17 |
| 146.40 | S | -72.07 | -68.42 | -2.27 | -1.37 | -13.00 | -59.07 |
| 261.83 | S | -75.27 | -77.26 | 3.67 | -1.67 | -13.00 | -62.27 |
| 397.63 | S | -73.39 | -75.07 | 3.63 | -1.95 | -13.00 | -60.39 |
| 527.61 | S | -71.53 | -72.74 | 3.66 | -2.46 | -13.00 | -58.53 |
| 650.80 | S | -70.26 | -71.23 | 3.63 | -2.66 | -13.00 | -57.26 |
| 1693.20 | H | -52.95 | -51.65 | 2.97 | -4.27 | -13.00 | -39.95 |

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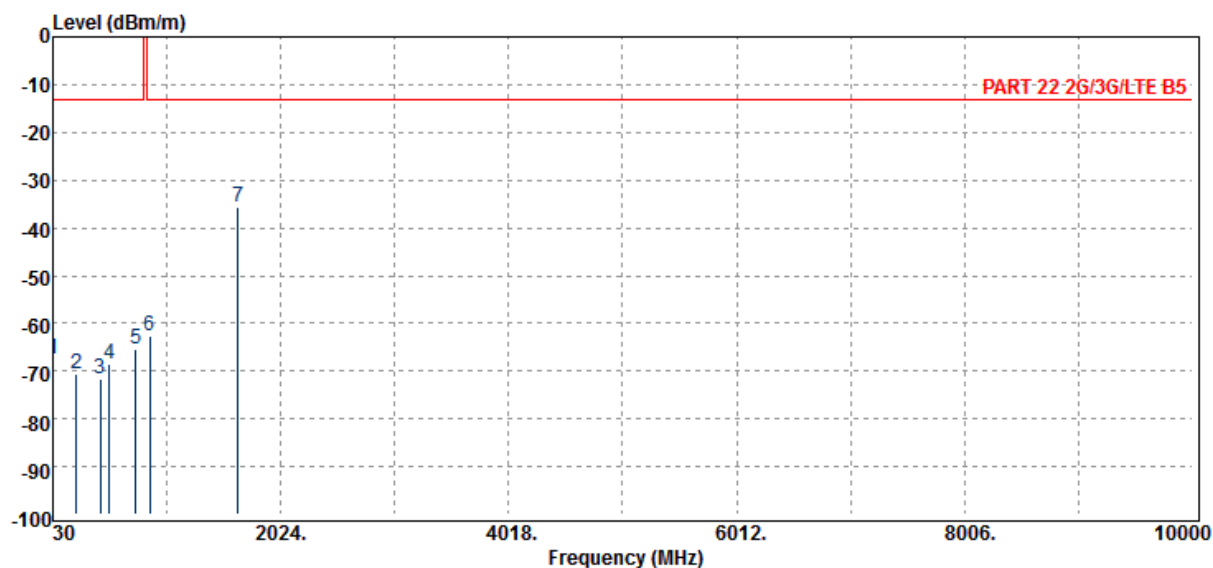
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**Radiated Spurious Emission Measurement Result: CDMA BC0 Mode**

| | | | |
|-----------------------|------------|--------------------------|-------------------|
| ARFCN | :CH 1013 | Test Date | :2015-06-18 |
| Operation Band | :CDMA 850 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :824.7 MHz | Engineer | :Curry |
| Operation Mode | :TX LOW | | |
| EUT Pol. | :E2 Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | ERP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 30.97 | S | -67.59 | -54.38 | -12.47 | -0.74 | -13.00 | -54.59 |
| 236.61 | S | -70.48 | -74.32 | 5.44 | -1.60 | -13.00 | -57.48 |
| 443.22 | S | -71.80 | -75.28 | 5.53 | -2.05 | -13.00 | -58.80 |
| 520.82 | S | -68.51 | -71.93 | 5.84 | -2.42 | -13.00 | -55.51 |
| 753.62 | S | -65.49 | -68.23 | 5.44 | -2.70 | -13.00 | -52.49 |
| 879.72 | S | -62.56 | -64.97 | 5.50 | -3.09 | -13.00 | -49.56 |
| 1649.40 | H | -35.68 | -34.51 | 3.05 | -4.21 | -13.00 | -22.68 |

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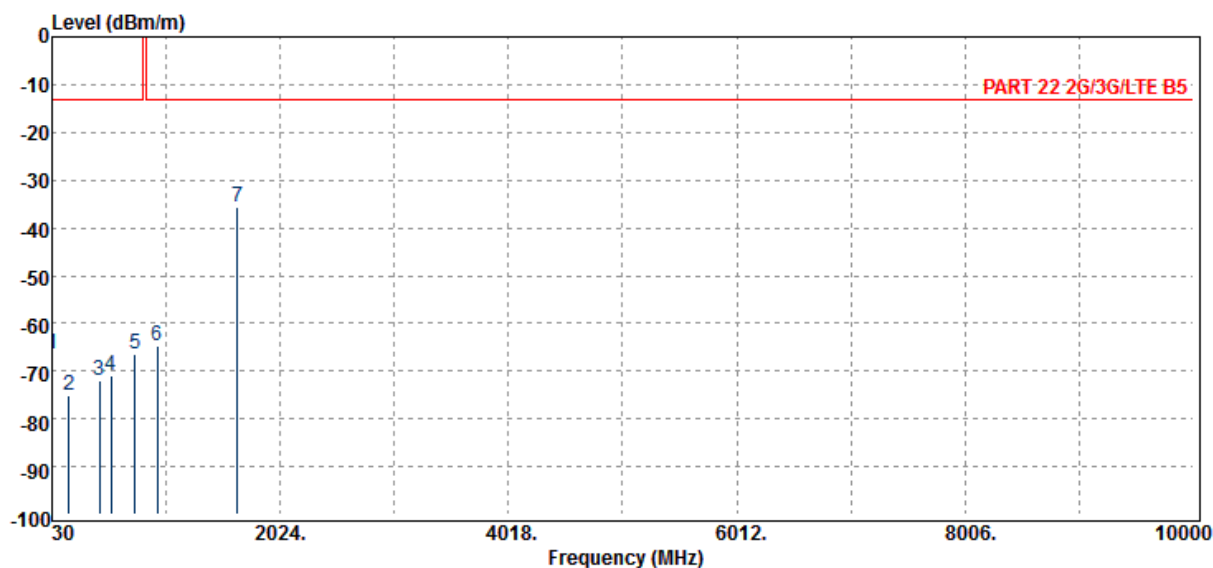
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|-----------------------|------------|--------------------------|-------------------|
| ARFCN | :CH 1013 | Test Date | :2015-06-18 |
| Operation Band | :CDMA 850 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :824.7 MHz | Engineer | :Curry |
| Operation Mode | :TX LOW | | |
| EUT Pol. | :E2 Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | ERP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 30.97 | S | -66.31 | -53.10 | -12.47 | -0.74 | -13.00 | -53.31 |
| 175.50 | S | -75.17 | -76.06 | 2.38 | -1.49 | -13.00 | -62.17 |
| 443.22 | S | -72.03 | -75.51 | 5.53 | -2.05 | -13.00 | -59.03 |
| 546.04 | S | -70.99 | -74.19 | 5.75 | -2.55 | -13.00 | -57.99 |
| 754.59 | S | -66.28 | -69.02 | 5.45 | -2.71 | -13.00 | -53.28 |
| 946.65 | S | -64.77 | -66.96 | 5.39 | -3.20 | -13.00 | -51.77 |
| 1649.40 | H | -35.53 | -34.37 | 3.05 | -4.21 | -13.00 | -22.53 |

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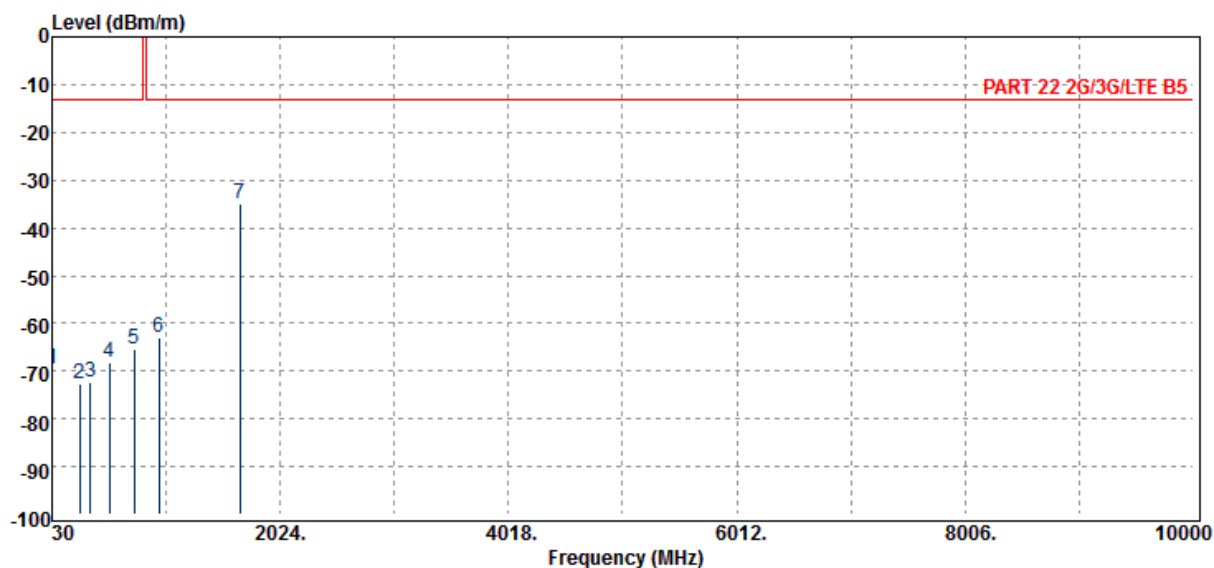
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| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| ARFCN | :CH 384 | Test Date | :2015-06-18 |
| Operation Band | :CDMA 850 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :836.52 MHz | Engineer | :Curry |
| Operation Mode | :TX MID | | |
| EUT Pol. | :E2 Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | ERP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 31.94 | S | -69.55 | -56.58 | -12.22 | -0.75 | -13.00 | -56.55 |
| 270.56 | S | -72.64 | -76.68 | 5.74 | -1.69 | -13.00 | -59.64 |
| 367.56 | S | -72.24 | -76.14 | 5.86 | -1.96 | -13.00 | -59.24 |
| 533.43 | S | -68.32 | -71.63 | 5.79 | -2.49 | -13.00 | -55.32 |
| 750.71 | S | -65.55 | -68.29 | 5.43 | -2.70 | -13.00 | -52.55 |
| 966.05 | S | -62.95 | -64.05 | 4.31 | -3.21 | -13.00 | -49.95 |
| 1673.04 | H | -35.05 | -33.80 | 3.01 | -4.26 | -13.00 | -22.05 |

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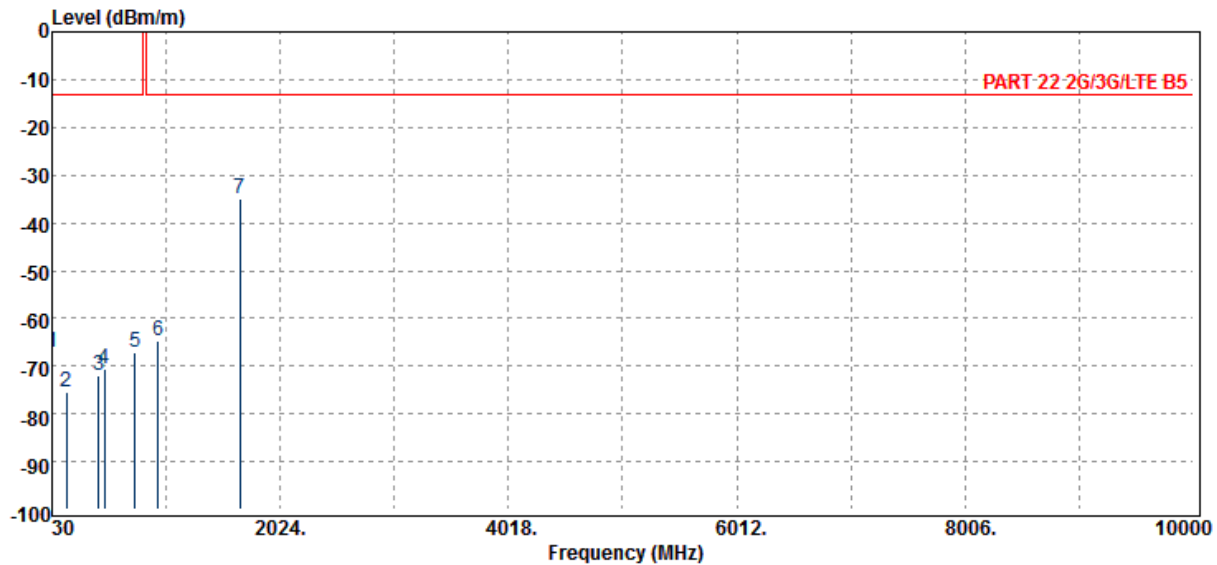
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| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| ARFCN | :CH 384 | Test Date | :2015-06-18 |
| Operation Band | :CDMA 850 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :836.52 MHz | Engineer | :Curry |
| Operation Mode | :TX MID | | |
| EUT Pol. | :E2 Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | ERP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 30.97 | S | -67.17 | -53.95 | -12.47 | -0.74 | -13.00 | -54.17 |
| 154.16 | S | -75.60 | -74.52 | 0.33 | -1.41 | -13.00 | -62.60 |
| 435.46 | S | -71.87 | -75.42 | 5.57 | -2.02 | -13.00 | -58.87 |
| 487.84 | S | -70.66 | -74.24 | 5.81 | -2.23 | -13.00 | -57.66 |
| 754.59 | S | -67.08 | -69.82 | 5.45 | -2.71 | -13.00 | -54.08 |
| 960.23 | S | -64.62 | -66.11 | 4.70 | -3.21 | -13.00 | -51.62 |
| 1673.04 | H | -34.91 | -33.66 | 3.01 | -4.26 | -13.00 | -21.91 |

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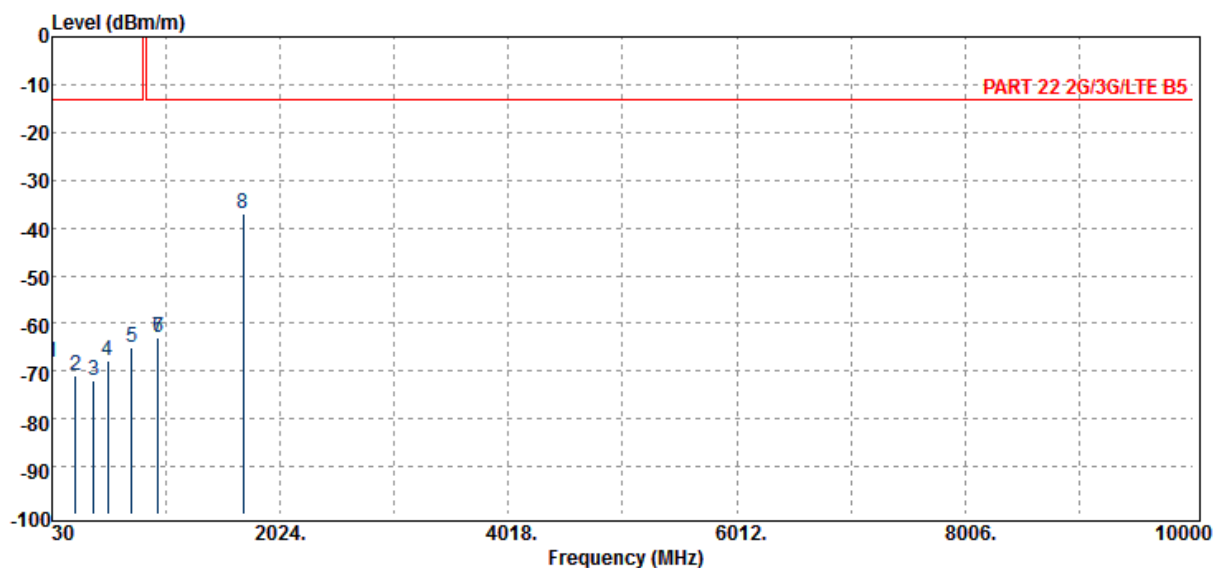
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| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| ARFCN | :CH 777 | Test Date | :2015-06-18 |
| Operation Band | :CDMA 850 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :848.31 MHz | Engineer | :Curry |
| Operation Mode | :TX HIGH | | |
| EUT Pol. | :E2 Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | ERP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 30.97 | S | -68.19 | -54.97 | -12.47 | -0.74 | -13.00 | -55.19 |
| 233.70 | S | -70.85 | -74.72 | 5.45 | -1.59 | -13.00 | -57.85 |
| 390.84 | S | -71.84 | -75.68 | 5.80 | -1.95 | -13.00 | -58.84 |
| 519.85 | S | -67.78 | -71.21 | 5.84 | -2.41 | -13.00 | -54.78 |
| 724.52 | S | -65.20 | -68.05 | 5.48 | -2.63 | -13.00 | -52.20 |
| 955.38 | S | -62.96 | -64.78 | 5.02 | -3.21 | -13.00 | -49.96 |
| 955.38 | H | -62.96 | -64.78 | 5.02 | -3.21 | -13.00 | -49.96 |
| 1696.62 | H | -37.07 | -35.76 | 2.96 | -4.28 | -13.00 | -24.07 |

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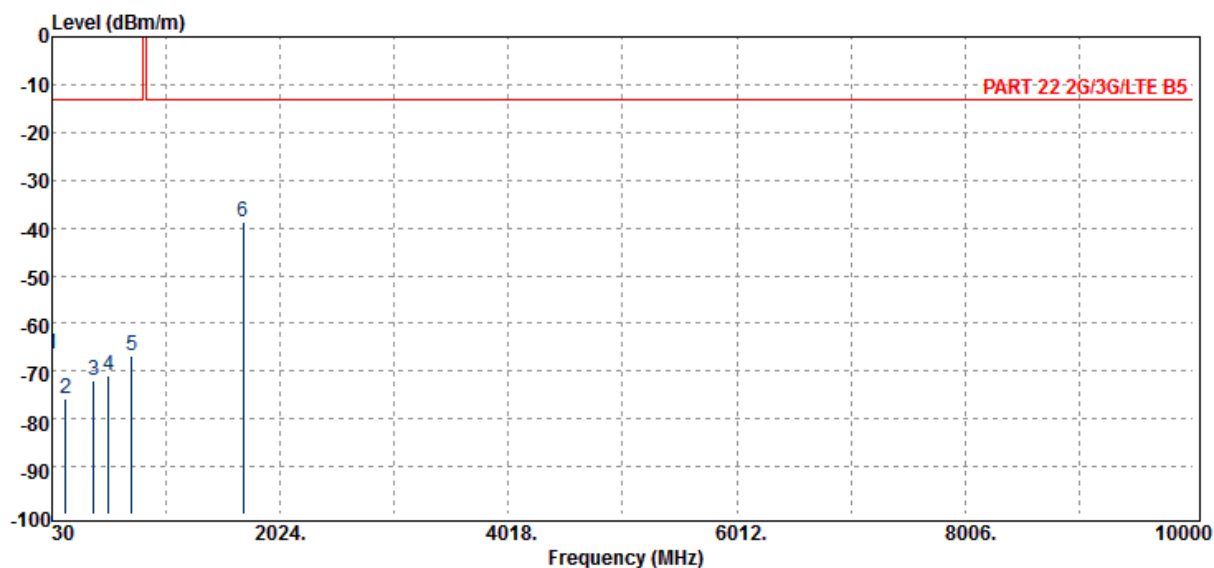
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| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| ARFCN | :CH 777 | Test Date | :2015-06-18 |
| Operation Band | :CDMA 850 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :848.31 MHz | Engineer | :Curry |
| Operation Mode | :TX HIGH | | |
| EUT Pol. | :E2 Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | ERP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 30.97 | S | -66.48 | -53.27 | -12.47 | -0.74 | -13.00 | -53.48 |
| 152.22 | S | -75.61 | -74.42 | 0.20 | -1.40 | -13.00 | -62.61 |
| 390.84 | S | -71.84 | -75.69 | 5.80 | -1.95 | -13.00 | -58.84 |
| 527.61 | S | -71.10 | -74.45 | 5.81 | -2.46 | -13.00 | -58.10 |
| 727.43 | S | -66.86 | -69.69 | 5.48 | -2.64 | -13.00 | -53.86 |
| 1696.62 | S | -38.62 | -37.31 | 2.96 | -4.28 | -13.00 | -25.62 |

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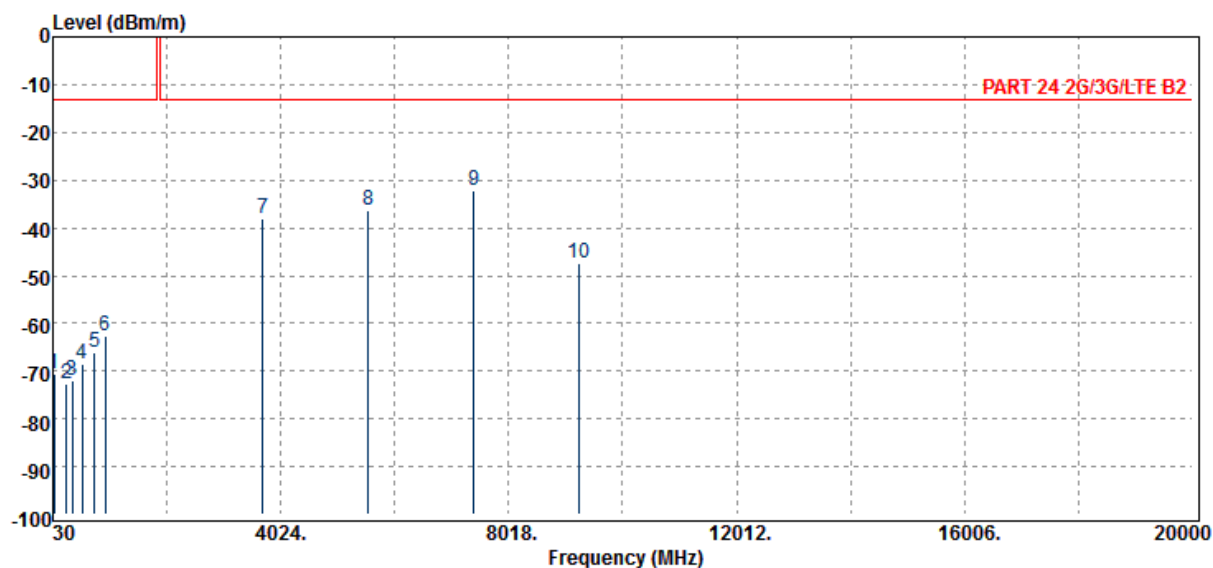
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Radiated Spurious Emission Measurement Result: CDMA BC1 Mode

| | | | |
|-----------------------|--------------|--------------------------|-------------------|
| ARFCN | :CH 25 | Test Date | :2015-06-18 |
| Operation Band | :CDMA 1900 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :1851.25 MHz | Engineer | :Curry |
| Operation Mode | :TX LOW | | |
| EUT Pol. | :E2 Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 49.40 | S | -70.42 | -60.12 | -9.40 | -0.90 | -13.00 | -57.42 |
| 273.47 | S | -72.57 | -76.53 | 5.66 | -1.70 | -13.00 | -59.57 |
| 372.41 | S | -72.12 | -76.01 | 5.85 | -1.96 | -13.00 | -59.12 |
| 547.98 | S | -68.68 | -71.87 | 5.74 | -2.56 | -13.00 | -55.68 |
| 756.53 | S | -65.98 | -68.73 | 5.45 | -2.71 | -13.00 | -52.98 |
| 944.71 | S | -62.62 | -64.82 | 5.39 | -3.20 | -13.00 | -49.62 |
| 3702.50 | H | -38.23 | -39.78 | 8.43 | -6.88 | -13.00 | -25.23 |
| 5555.00 | H | -36.35 | -37.91 | 10.10 | -8.54 | -13.00 | -23.35 |
| 7405.00 | H | -32.01 | -33.91 | 11.61 | -9.70 | -13.00 | -19.01 |
| 9256.25 | H | -47.42 | -49.26 | 12.75 | -10.91 | -13.00 | -34.42 |

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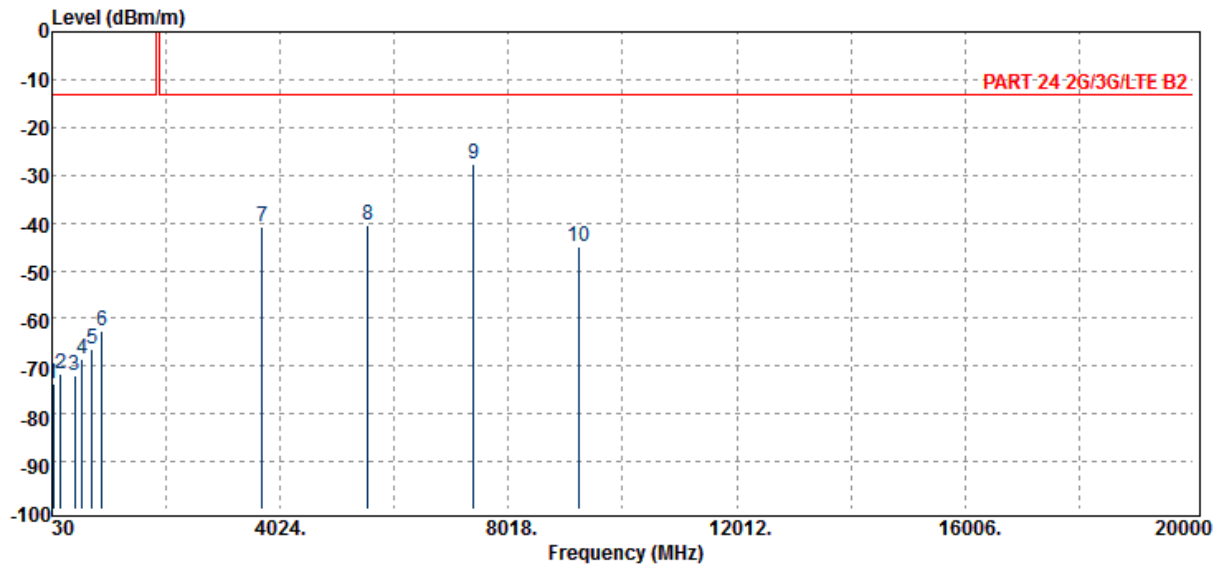
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| | | | |
|-----------------------|--------------|--------------------------|-------------------|
| ARFCN | :CH 25 | Test Date | :2015-06-18 |
| Operation Band | :CDMA 1900 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :1851.25 MHz | Engineer | :Curry |
| Operation Mode | :TX LOW | | |
| EUT Pol. | :E2 Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 47.46 | S | -73.63 | -63.00 | -9.74 | -0.89 | -13.00 | -60.63 |
| 175.50 | S | -71.67 | -72.56 | 2.38 | -1.49 | -13.00 | -58.67 |
| 432.55 | S | -72.08 | -75.65 | 5.59 | -2.01 | -13.00 | -59.08 |
| 553.80 | S | -68.68 | -71.81 | 5.73 | -2.59 | -13.00 | -55.68 |
| 737.13 | S | -66.32 | -69.11 | 5.46 | -2.67 | -13.00 | -53.32 |
| 910.76 | S | -62.74 | -65.00 | 5.41 | -3.15 | -13.00 | -49.74 |
| 3702.50 | H | -41.00 | -42.54 | 8.43 | -6.88 | -13.00 | -28.00 |
| 5553.75 | H | -40.63 | -42.19 | 10.10 | -8.54 | -13.00 | -27.63 |
| 7405.00 | H | -27.69 | -29.59 | 11.61 | -9.70 | -13.00 | -14.69 |
| 9256.25 | H | -44.81 | -46.66 | 12.75 | -10.91 | -13.00 | -31.81 |

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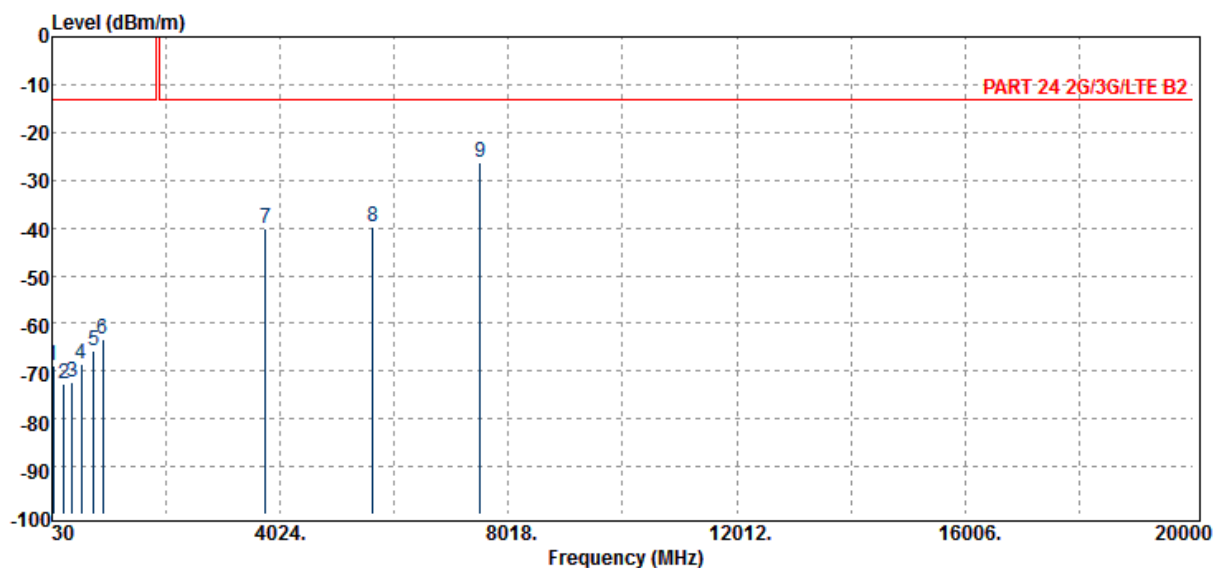
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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| ARFCN | :CH 600 | Test Date | :2015-06-18 |
| Operation Band | :CDMA 1900 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :1880 MHz | Engineer | :Curry |
| Operation Mode | :TX MID | | |
| EUT Pol. | :E2 Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 49.40 | S | -68.97 | -58.67 | -9.40 | -0.90 | -13.00 | -55.97 |
| 236.61 | S | -72.72 | -76.57 | 5.44 | -1.60 | -13.00 | -59.72 |
| 385.02 | S | -72.39 | -76.25 | 5.81 | -1.95 | -13.00 | -59.39 |
| 549.92 | S | -68.60 | -71.76 | 5.74 | -2.57 | -13.00 | -55.60 |
| 759.44 | S | -65.82 | -68.57 | 5.46 | -2.72 | -13.00 | -52.82 |
| 923.37 | S | -63.30 | -65.53 | 5.40 | -3.16 | -13.00 | -50.30 |
| 3760.00 | H | -40.06 | -41.50 | 8.46 | -7.02 | -13.00 | -27.06 |
| 5640.00 | H | -39.67 | -41.19 | 10.11 | -8.59 | -13.00 | -26.67 |
| 7520.00 | H | -26.17 | -28.17 | 11.72 | -9.71 | -13.00 | -13.17 |

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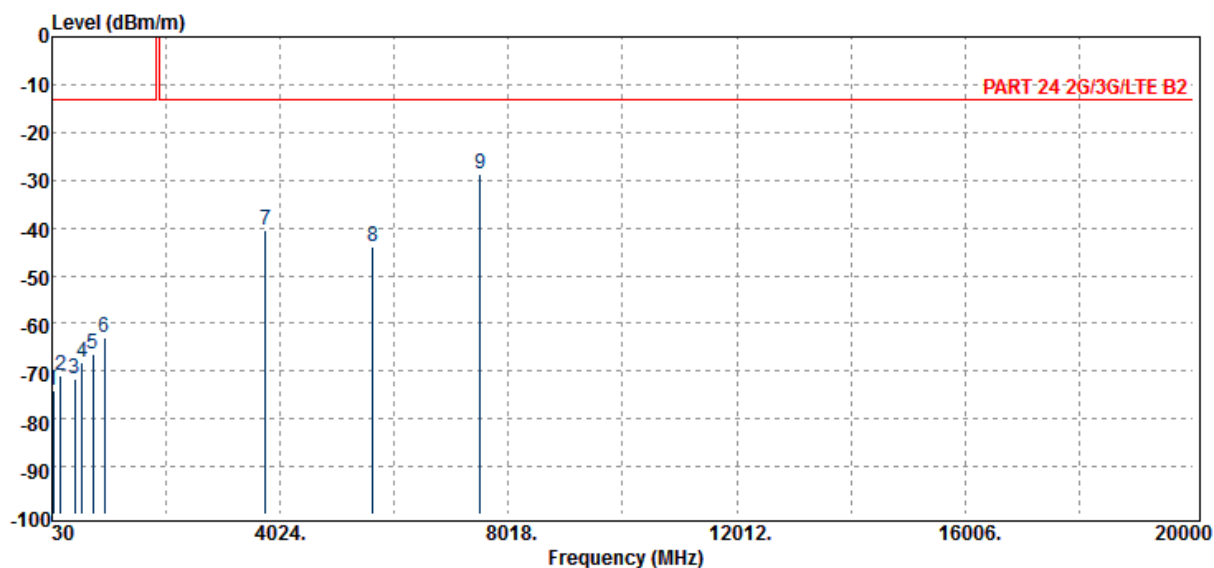
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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| ARFCN | :CH 600 | Test Date | :2015-06-18 |
| Operation Band | :CDMA 1900 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :1880 MHz | Engineer | :Curry |
| Operation Mode | :TX MID | | |
| EUT Pol. | :E2 Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 47.46 | S | -73.93 | -63.29 | -9.74 | -0.89 | -13.00 | -60.93 |
| 179.38 | S | -70.77 | -72.30 | 3.03 | -1.50 | -13.00 | -57.77 |
| 428.67 | S | -71.77 | -75.38 | 5.61 | -2.00 | -13.00 | -58.77 |
| 555.74 | S | -68.31 | -71.43 | 5.72 | -2.60 | -13.00 | -55.31 |
| 748.77 | S | -66.42 | -69.16 | 5.43 | -2.69 | -13.00 | -53.42 |
| 950.53 | S | -62.83 | -64.98 | 5.35 | -3.20 | -13.00 | -49.83 |
| 3760.00 | H | -40.64 | -42.08 | 8.46 | -7.02 | -13.00 | -27.64 |
| 5640.00 | H | -43.79 | -45.31 | 10.11 | -8.59 | -13.00 | -30.79 |
| 7520.00 | H | -28.56 | -30.56 | 11.72 | -9.71 | -13.00 | -15.56 |

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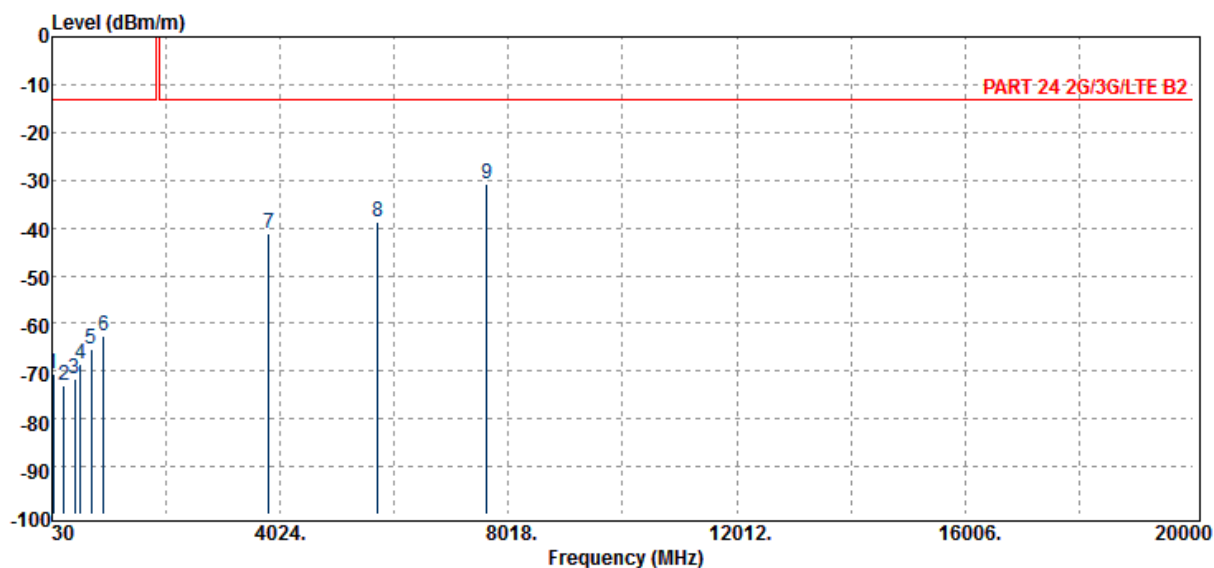
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| | | | |
|-----------------------|--------------|--------------------------|-------------------|
| ARFCN | :CH 1175 | Test Date | :2015-06-18 |
| Operation Band | :CDMA 1900 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :1908.75 MHz | Engineer | :Curry |
| Operation Mode | :TX HIGH | | |
| EUT Pol. | :E2 Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 49.40 | S | -70.49 | -60.19 | -9.40 | -0.90 | -13.00 | -57.49 |
| 234.67 | S | -73.09 | -76.95 | 5.45 | -1.59 | -13.00 | -60.09 |
| 429.64 | S | -71.56 | -75.16 | 5.60 | -2.00 | -13.00 | -58.56 |
| 527.61 | S | -68.44 | -71.80 | 5.81 | -2.46 | -13.00 | -55.44 |
| 720.64 | S | -65.29 | -68.15 | 5.49 | -2.63 | -13.00 | -52.29 |
| 937.92 | S | -62.77 | -64.98 | 5.39 | -3.19 | -13.00 | -49.77 |
| 3817.50 | H | -41.32 | -42.77 | 8.50 | -7.05 | -13.00 | -28.32 |
| 5725.00 | H | -38.92 | -40.41 | 10.12 | -8.63 | -13.00 | -25.92 |
| 7635.00 | H | -30.80 | -32.82 | 11.81 | -9.79 | -13.00 | -17.80 |

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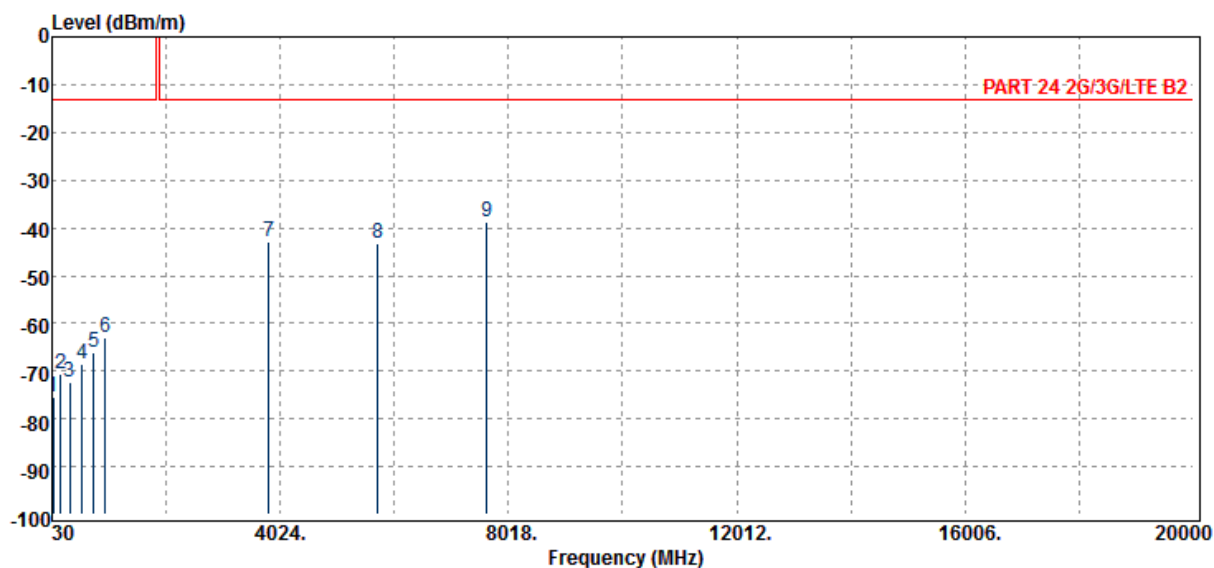
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| | | | |
|-----------------------|--------------|--------------------------|-------------------|
| ARFCN | :CH 1175 | Test Date | :2015-06-18 |
| Operation Band | :CDMA 1900 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :1908.75 MHz | Engineer | :Curry |
| Operation Mode | :TX HIGH | | |
| EUT Pol. | :E2 Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | EIRP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBi | Loss dB | dBm | dB |
| 47.46 | S | -75.33 | -64.70 | -9.74 | -0.89 | -13.00 | -62.33 |
| 177.44 | S | -70.66 | -71.87 | 2.71 | -1.50 | -13.00 | -57.66 |
| 338.46 | S | -72.43 | -76.39 | 5.88 | -1.93 | -13.00 | -59.43 |
| 551.86 | S | -68.46 | -71.61 | 5.73 | -2.58 | -13.00 | -55.46 |
| 752.65 | S | -65.97 | -68.71 | 5.44 | -2.70 | -13.00 | -52.97 |
| 955.38 | S | -63.08 | -64.90 | 5.02 | -3.21 | -13.00 | -50.08 |
| 3817.50 | H | -42.74 | -44.19 | 8.50 | -7.05 | -13.00 | -29.74 |
| 5726.25 | H | -43.16 | -44.64 | 10.12 | -8.63 | -13.00 | -30.16 |
| 7635.00 | H | -38.90 | -40.93 | 11.81 | -9.79 | -13.00 | -25.90 |

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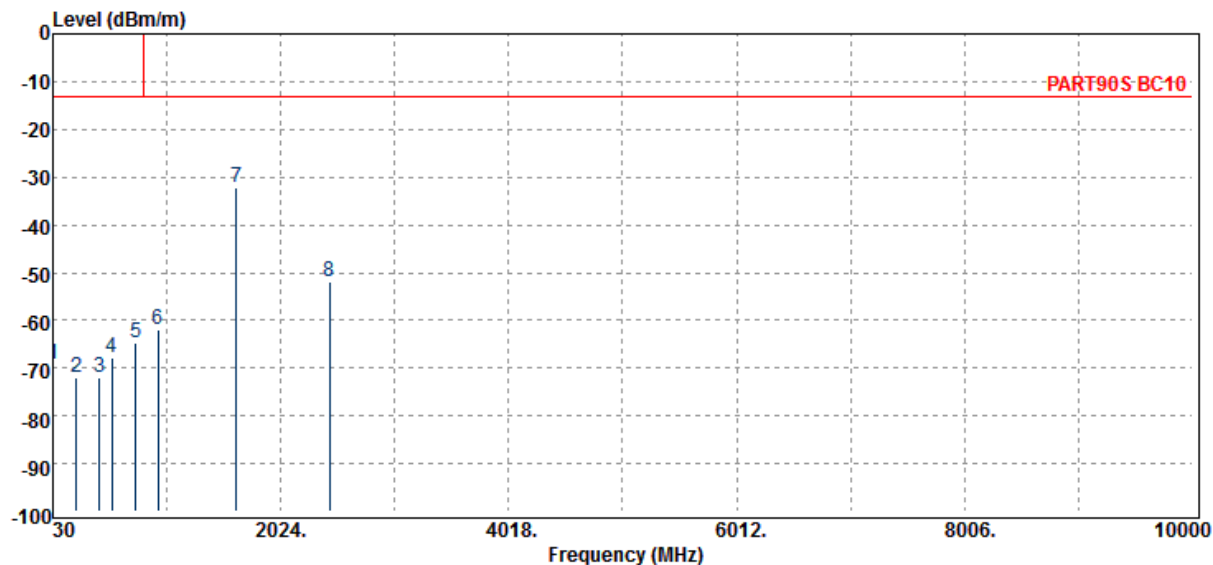
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**Radiated Spurious Emission Measurement Result: CDMA BC10 Mode**

| | | | |
|-----------------------|------------|--------------------------|-------------------|
| ARFCN | :CH 476 | Test Date | :2015-06-18 |
| Operation Band | :CDMA BC10 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :817.9 MHz | Engineer | :Curry |
| Operation Mode | :TX LOW | | |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | ERP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 30.97 | S | -69.26 | -56.05 | -12.47 | -0.74 | -13.00 | -56.26 |
| 235.64 | S | -71.96 | -75.81 | 5.45 | -1.59 | -13.00 | -58.96 |
| 434.49 | S | -72.11 | -75.67 | 5.58 | -2.02 | -13.00 | -59.11 |
| 548.95 | S | -67.84 | -71.01 | 5.74 | -2.57 | -13.00 | -54.84 |
| 755.56 | S | -64.58 | -67.32 | 5.45 | -2.71 | -13.00 | -51.58 |
| 948.59 | S | -62.07 | -64.25 | 5.39 | -3.20 | -13.00 | -49.07 |
| 1635.80 | H | -32.01 | -30.90 | 3.08 | -4.19 | -13.00 | -19.01 |
| 2453.70 | H | -51.81 | -50.05 | 3.55 | -5.30 | -13.00 | -38.81 |

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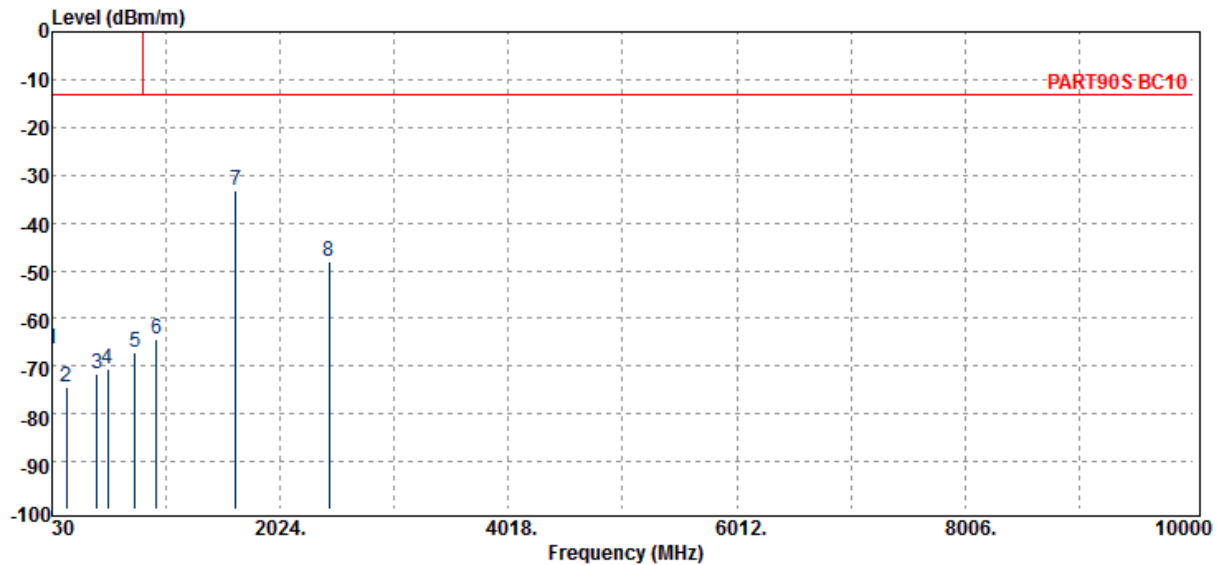
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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| ARFCN | :CH 476 | Test Date | :2015-06-18 |
| Operation Band | :CDMA BC10 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :817.9 MHz | Engineer | :Curry |
| Operation Mode | :TX LOW | | |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | ERP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 30.97 | S | -66.54 | -53.33 | -12.47 | -0.74 | -13.00 | -53.54 |
| 154.16 | S | -74.55 | -73.47 | 0.33 | -1.41 | -13.00 | -61.55 |
| 419.94 | S | -71.53 | -75.21 | 5.66 | -1.97 | -13.00 | -58.53 |
| 515.97 | S | -70.66 | -74.12 | 5.85 | -2.39 | -13.00 | -57.66 |
| 757.50 | S | -67.19 | -69.93 | 5.46 | -2.71 | -13.00 | -54.19 |
| 944.71 | S | -64.46 | -66.65 | 5.39 | -3.20 | -13.00 | -51.46 |
| 1635.80 | H | -33.28 | -32.17 | 3.08 | -4.19 | -13.00 | -20.28 |
| 2453.70 | H | -48.23 | -46.48 | 3.55 | -5.30 | -13.00 | -35.23 |

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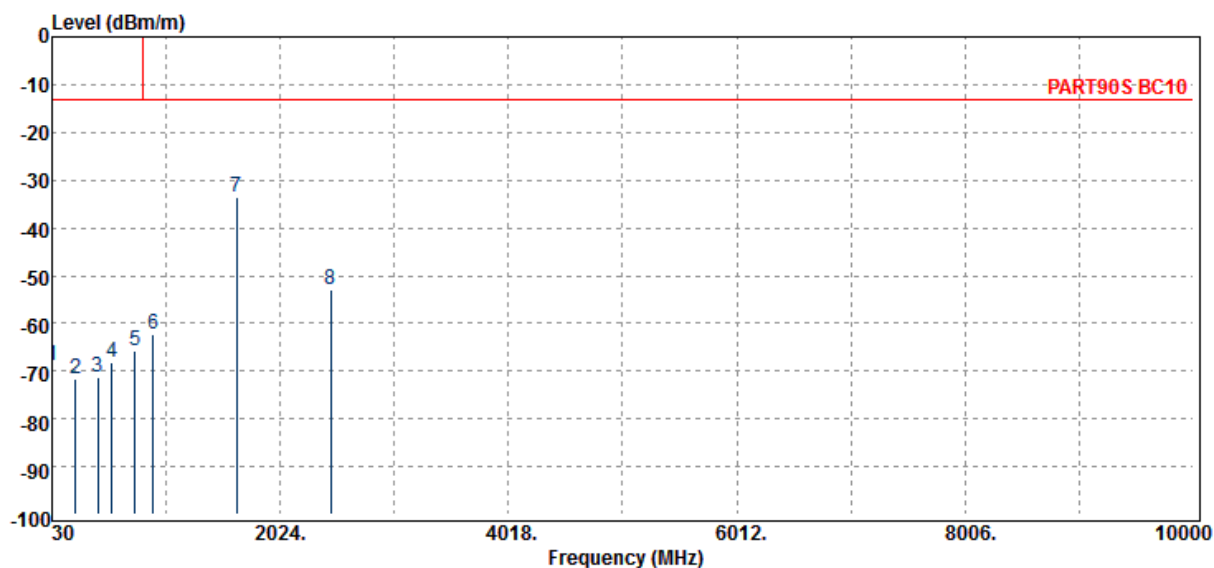
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|-----------------------|------------|--------------------------|-------------------|
| ARFCN | :CH 580 | Test Date | :2015-06-18 |
| Operation Band | :CDMA BC10 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :820.5 MHz | Engineer | :Curry |
| Operation Mode | :TX MID | | |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | ERP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 30.97 | S | -68.76 | -55.55 | -12.47 | -0.74 | -13.00 | -55.76 |
| 237.58 | S | -71.63 | -75.47 | 5.44 | -1.60 | -13.00 | -58.63 |
| 428.67 | S | -71.32 | -74.93 | 5.61 | -2.00 | -13.00 | -58.32 |
| 553.80 | S | -68.09 | -71.23 | 5.73 | -2.59 | -13.00 | -55.09 |
| 756.53 | S | -65.64 | -68.38 | 5.45 | -2.71 | -13.00 | -52.64 |
| 910.76 | S | -62.21 | -64.47 | 5.41 | -3.15 | -13.00 | -49.21 |
| 1641.00 | H | -33.55 | -32.42 | 3.07 | -4.20 | -13.00 | -20.55 |
| 2461.50 | H | -52.93 | -51.18 | 3.57 | -5.31 | -13.00 | -39.93 |

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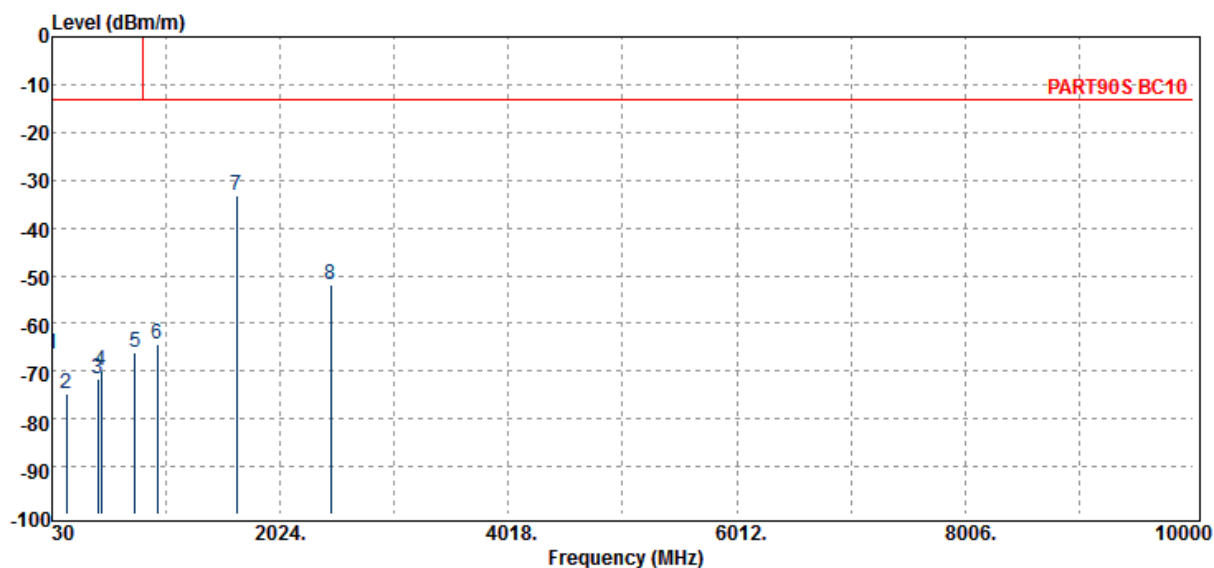
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|-----------------------|------------|--------------------------|-------------------|
| ARFCN | :CH 580 | Test Date | :2015-06-18 |
| Operation Band | :CDMA BC10 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :820.5 MHz | Engineer | :Curry |
| Operation Mode | :TX MID | | |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | ERP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 30.97 | S | -66.56 | -53.35 | -12.47 | -0.74 | -13.00 | -53.56 |
| 153.19 | S | -74.83 | -73.69 | 0.27 | -1.40 | -13.00 | -61.83 |
| 430.61 | S | -71.55 | -75.14 | 5.60 | -2.01 | -13.00 | -58.55 |
| 461.65 | S | -70.00 | -73.50 | 5.59 | -2.10 | -13.00 | -57.00 |
| 756.53 | S | -66.17 | -68.91 | 5.45 | -2.71 | -13.00 | -53.17 |
| 946.65 | S | -64.28 | -66.47 | 5.39 | -3.20 | -13.00 | -51.28 |
| 1641.00 | H | -33.09 | -31.96 | 3.07 | -4.20 | -13.00 | -20.09 |
| 2461.50 | H | -51.78 | -50.03 | 3.57 | -5.31 | -13.00 | -38.78 |

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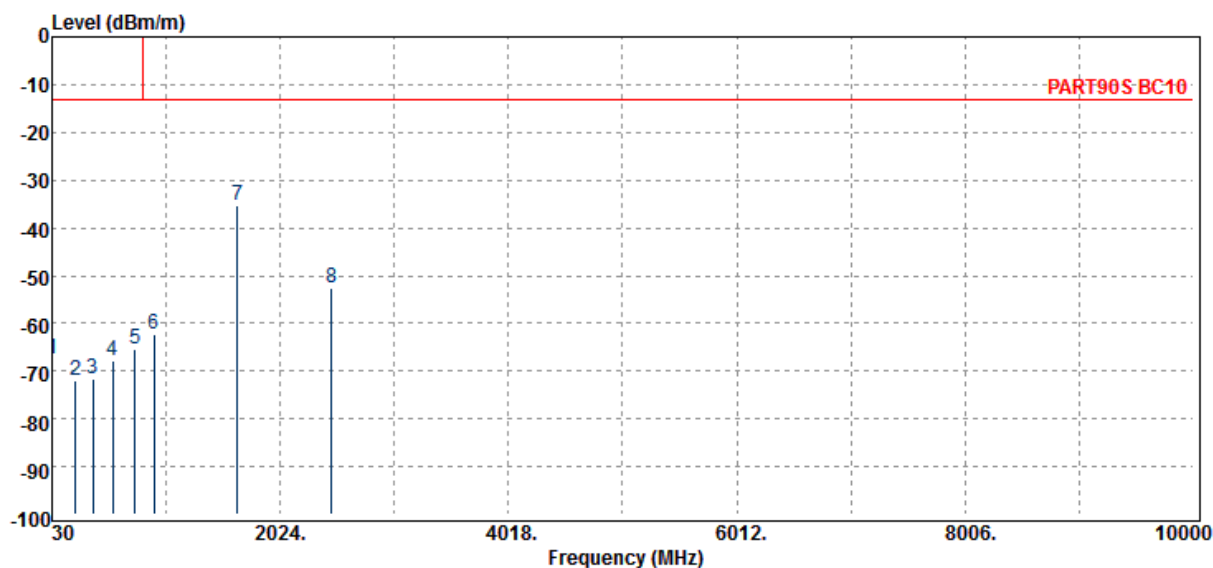
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|-----------------------|------------|--------------------------|-------------------|
| ARFCN | :CH 684 | Test Date | :2015-06-18 |
| Operation Band | :CDMA BC10 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :823.1 MHz | Engineer | :Curry |
| Operation Mode | :TX HIGH | | |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | ERP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 30.97 | S | -67.64 | -54.43 | -12.47 | -0.74 | -13.00 | -54.64 |
| 235.64 | S | -71.82 | -75.67 | 5.45 | -1.59 | -13.00 | -58.82 |
| 384.05 | S | -71.51 | -75.38 | 5.81 | -1.95 | -13.00 | -58.51 |
| 556.71 | S | -67.72 | -70.83 | 5.72 | -2.61 | -13.00 | -54.72 |
| 757.50 | S | -65.30 | -68.04 | 5.46 | -2.71 | -13.00 | -52.30 |
| 917.55 | S | -62.15 | -64.40 | 5.40 | -3.16 | -13.00 | -49.15 |
| 1646.20 | H | -35.37 | -34.22 | 3.06 | -4.21 | -13.00 | -22.37 |
| 2469.30 | H | -52.67 | -50.93 | 3.58 | -5.32 | -13.00 | -39.67 |

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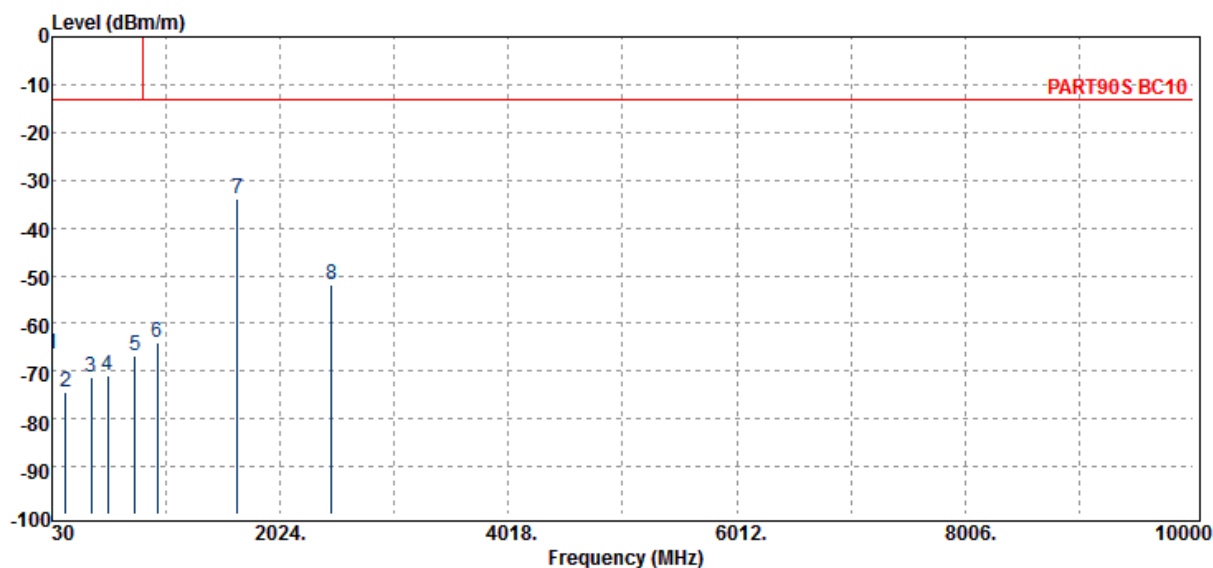
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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| ARFCN | :CH 684 | Test Date | :2015-06-18 |
| Operation Band | :CDMA BC10 | Temp./Humi. | :23 deg_C / 52 RH |
| Fundamental Frequency | :823.1 MHz | Engineer | :Curry |
| Operation Mode | :TX HIGH | | |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | ERP | SG | Antenna | Cable | Limit | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz | F/H/E/S | dBm | Output Level dBm | Gain dBd | Loss dB | dBm | dB |
| 30.97 | S | -66.48 | -53.26 | -12.47 | -0.74 | -13.00 | -53.48 |
| 152.22 | S | -74.37 | -73.17 | 0.20 | -1.40 | -13.00 | -61.37 |
| 375.32 | S | -71.28 | -75.16 | 5.84 | -1.96 | -13.00 | -58.28 |
| 515.97 | S | -70.78 | -74.24 | 5.85 | -2.39 | -13.00 | -57.78 |
| 757.50 | S | -66.95 | -69.69 | 5.46 | -2.71 | -13.00 | -53.95 |
| 947.62 | S | -64.14 | -66.33 | 5.39 | -3.20 | -13.00 | -51.14 |
| 1646.20 | H | -33.98 | -32.83 | 3.06 | -4.21 | -13.00 | -20.98 |
| 2469.30 | H | -52.05 | -50.32 | 3.58 | -5.32 | -13.00 | -39.05 |

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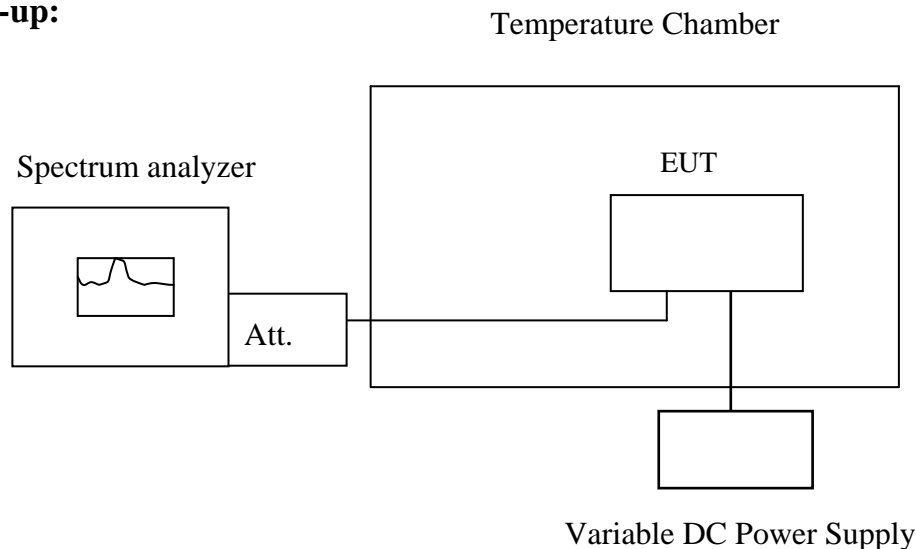
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11. FREQUENCY STABILITY MEASUREMENT

11.1. Standard Applicable:

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

11.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

11.3. Measurement Procedure:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 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.

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

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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11.4. Measurement Equipment Used:

| Conducted Emission (measured at antenna port) Test Site | | | | | |
|---|---------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 01/29/2015 | 01/28/2016 |
| Radio Communication Analyzer | R&S | CMU200 | 102189 | 02/11/2015 | 02/10/2016 |
| Radio Communication Analyzer | Anritsu | MT8820C | 6200995019 | 10/08/2014 | 10/09/2015 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 05/06/2015 | 05/05/2016 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 01/02/2015 | 01/01/2016 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 002 | 01/02/2015 | 01/01/2016 |
| Splitter | Agilent | 11636B | N/A | 01/02/2015 | 01/01/2016 |
| DC Power Supply | Agilent | E3640A | MY52410006 | 11/10/2014 | 11/09/2015 |

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11.5. Measurement Result:

FREQUENCY ERROR vs. VOLTAGE

| Reference Frequency: GPRS 850 Mid Channel 836.6 MHz | | | | |
|---|-----------------|------------|------------|------------|
| Limit: +/- 2.5 ppm | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature () | (MHz) | | |
| 4.1 | 20 | 836.599999 | -3 | 2091 |
| 3.7 | 20 | 836.600002 | 0 | 2091 |
| 3.6 | 20 | 836.600003 | 1 | 2091 |
| 3.0 (End point) | 20 | 836.600004 | 2 | 2091 |

FREQUENCY ERROR vs. TEMPERATURE

| Reference Frequency: GPRS 850 Mid Channel 836.6 MHz | | | | |
|---|-----------------|------------|------------|------------|
| Limit: +/- 2.5 ppm | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature () | (MHz) | | |
| 3.7 | 50 | 836.600005 | 3 | 2091 |
| 3.7 | 40 | 836.599999 | -3 | 2091 |
| 3.7 | 30 | 836.599997 | -5 | 2091 |
| 3.7 | 20 | 836.600002 | 0 | 2091 |
| 3.7 | 10 | 836.600004 | 2 | 2091 |
| 3.7 | 0 | 836.600002 | 0 | 2091 |
| 3.7 | -10 | 836.599995 | -7 | 2091 |
| 3.7 | -20 | 836.599994 | -8 | 2091 |
| 3.7 | -30 | 836.600001 | -1 | 2091 |

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FREQUENCY ERROR vs. VOLTAGE

| Reference Frequency: GPRS 1900 Mid Channel 1880 MHz | | | | |
|---|-----------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature () | (MHz) | | |
| 4.1 | 20 | 1879.999995 | -2 | 4700 |
| 3.7 | 20 | 1879.999997 | 0 | 4700 |
| 3.6 | 20 | 1880.000003 | 6 | 4700 |
| 3.0 (End point) | 20 | 1880.000006 | 9 | 4700 |

FREQUENCY ERROR vs. TEMPERATURE

| Reference Frequency: GPRS 1900 Mid Channel 1880 MHz | | | | |
|---|-----------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature () | (MHz) | | |
| 3.7 | 50 | 1880.000003 | 6 | 4700 |
| 3.7 | 40 | 1879.999999 | 2 | 4700 |
| 3.7 | 30 | 1880.000003 | 6 | 4700 |
| 3.7 | 20 | 1879.999997 | 0 | 4700 |
| 3.7 | 10 | 1879.999996 | -1 | 4700 |
| 3.7 | 0 | 1880.000006 | 9 | 4700 |
| 3.7 | -10 | 1879.999995 | -2 | 4700 |
| 3.7 | -20 | 1880.000001 | 4 | 4700 |
| 3.7 | -30 | 1880.000000 | 3 | 4700 |

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FREQUENCY ERROR vs. VOLTAGE

| Reference Frequency: WCDMA II Mid Channel 1880 MHz | | | | |
|--|-----------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature () | (MHz) | | |
| 4.1 | 20 | 1880.000002 | 1 | 4700 |
| 3.7 | 20 | 1880.000001 | 0 | 4700 |
| 3.6 | 20 | 1879.999997 | -4 | 4700 |
| 3.0 (End point) | 20 | 1879.999998 | -3 | 4700 |

FREQUENCY ERROR vs. TEMPERATURE

| Reference Frequency: WCDMA II Mid Channel 1880 | | | | |
|--|-----------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature () | (MHz) | | |
| 3.7 | 50 | 1879.999995 | -6 | 4700 |
| 3.7 | 40 | 1879.999994 | -7 | 4700 |
| 3.7 | 30 | 1880.000004 | 3 | 4700 |
| 3.7 | 20 | 1880.000001 | 0 | 4700 |
| 3.7 | 10 | 1880.000003 | 2 | 4700 |
| 3.7 | 0 | 1879.999999 | -2 | 4700 |
| 3.7 | -10 | 1879.999994 | -7 | 4700 |
| 3.7 | -20 | 1879.999995 | -6 | 4700 |
| 3.7 | -30 | 1879.999999 | -2 | 4700 |

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FREQUENCY ERROR vs. VOLTAGE

| Reference Frequency: WCDMA V Mid Channel 836.6 MHz | | | | |
|--|-----------------|------------|------------|------------|
| Limit: +/- 2.5 ppm | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature () | (MHz) | | |
| 4.1 | 20 | 836.600004 | -4 | 2091 |
| 3.7 | 20 | 836.600008 | 0 | 2091 |
| 3.6 | 20 | 836.599997 | -11 | 2091 |
| 3.0 (End point) | 20 | 836.599995 | -13 | 2091 |

FREQUENCY ERROR vs. TEMPERATURE

| Reference Frequency: WCDMA V Mid Channel 836.6 MHz | | | | |
|--|-----------------|------------|------------|------------|
| Limit: +/- 2.5 ppm | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature () | (MHz) | | |
| 3.7 | 50 | 836.599994 | -14 | 2091 |
| 3.7 | 40 | 836.599992 | -16 | 2091 |
| 3.7 | 30 | 836.599997 | -11 | 2091 |
| 3.7 | 20 | 836.600008 | 0 | 2091 |
| 3.7 | 10 | 836.599992 | -16 | 2091 |
| 3.7 | 0 | 836.599992 | -16 | 2091 |
| 3.7 | -10 | 836.600005 | -3 | 2091 |
| 3.7 | -20 | 836.600006 | -2 | 2091 |
| 3.7 | -30 | 836.599997 | -11 | 2091 |

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FREQUENCY ERROR vs. VOLTAGE

| Reference Frequency: CDMA BC0 Mid Channel 836.6 MHz | | | | |
|---|-----------------|------------|------------|------------|
| Limit: +/- 2.5 ppm | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature () | (MHz) | | |
| 4.10 | 25.00 | 836.519995 | -2.00 | 2091 |
| 3.70 | 25.00 | 836.519993 | 0.00 | 2091 |
| 3.60 | 25.00 | 836.520005 | -12.00 | 2091 |
| 3.0 (End point) | 25.00 | 836.520003 | -10.00 | 2091 |

FREQUENCY ERROR vs. TEMPERATURE

| Reference Frequency: CDMA BC0 Mid Channel 836.6 MHz | | | | |
|---|-----------------|------------|------------|------------|
| Limit: +/- 2.5 ppm | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature () | (MHz) | | |
| 3.70 | 50 | 836.519995 | -2.00 | 2091 |
| 3.70 | 40 | 836.519992 | 1.00 | 2091 |
| 3.70 | 30 | 836.519997 | -4.00 | 2091 |
| 3.70 | 20 | 836.519993 | 0.00 | 2091 |
| 3.70 | 10 | 836.519992 | 1.00 | 2091 |
| 3.70 | 0 | 836.519992 | 1.00 | 2091 |
| 3.70 | -10 | 836.520005 | -12.00 | 2091 |
| 3.70 | -20 | 836.520006 | -13.00 | 2091 |
| 3.70 | -30 | 836.519997 | -4.00 | 2091 |

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FREQUENCY ERROR vs. VOLTAGE

| Reference Frequency: CDMA BC1 Mid Channel 1880 MHz | | | | |
|--|-----------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature () | (MHz) | | |
| 4.10 | 25 | 1879.999993 | 10.00 | 4700 |
| 3.70 | 25 | 1880.000003 | 0.00 | 4700 |
| 3.60 | 25 | 1880.000001 | 2.00 | 4700 |
| 3.0 (End point) | 25 | 1879.999997 | 6.00 | 4700 |

FREQUENCY ERROR vs. TEMPERATURE

| Reference Frequency: CDMA BC1 Mid Channel 1880 MHz | | | | |
|--|-----------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature () | (MHz) | | |
| 3.70 | 50 | 1879.999995 | 8.00 | 4700 |
| 3.70 | 40 | 1879.999992 | 11.00 | 4700 |
| 3.70 | 30 | 1879.999997 | 6.00 | 4700 |
| 3.70 | 20 | 1880.000003 | 0.00 | 4700 |
| 3.70 | 10 | 1879.999992 | 11.00 | 4700 |
| 3.70 | 0 | 1879.999992 | 11.00 | 4700 |
| 3.70 | -10 | 1880.000005 | -2.00 | 4700 |
| 3.70 | -20 | 1880.000006 | -3.00 | 4700 |
| 3.70 | -30 | 1879.999997 | 6.00 | 4700 |

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FREQUENCY ERROR vs. VOLTAGE

| Reference Frequency: CDMA BC10 Mid Channel 820.5 MHz | | | | |
|--|-----------------|------------|------------|------------|
| Limit: +/- 2.5 ppm | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature () | (MHz) | | |
| 4.10 | 25.00 | 820.499993 | 1.00 | 2091 |
| 3.70 | 25.00 | 820.499994 | 0.00 | 2091 |
| 3.60 | 25.00 | 820.500003 | -9.00 | 2091 |
| 3.0 (End point) | 25.00 | 820.500006 | -12.00 | 2091 |

FREQUENCY ERROR vs. TEMPERATURE

| Reference Frequency: CDMA BC10 Mid Channel 820.5 MHz | | | | |
|--|-----------------|------------|------------|------------|
| Limit: +/- 2.5 ppm | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature () | (MHz) | | |
| 3.70 | 50 | 820.500006 | -12.00 | 2091 |
| 3.70 | 40 | 820.499996 | -2.00 | 2091 |
| 3.70 | 30 | 820.500003 | -9.00 | 2091 |
| 3.70 | 20 | 820.499994 | 0.00 | 2091 |
| 3.70 | 10 | 820.499992 | 2.00 | 2091 |
| 3.70 | 0 | 820.499996 | -2.00 | 2091 |
| 3.70 | -10 | 820.499998 | -4.00 | 2091 |
| 3.70 | -20 | 820.499999 | -5.00 | 2091 |
| 3.70 | -30 | 820.500009 | -15.00 | 2091 |

Note: The battery is rated 3.7Vdc.

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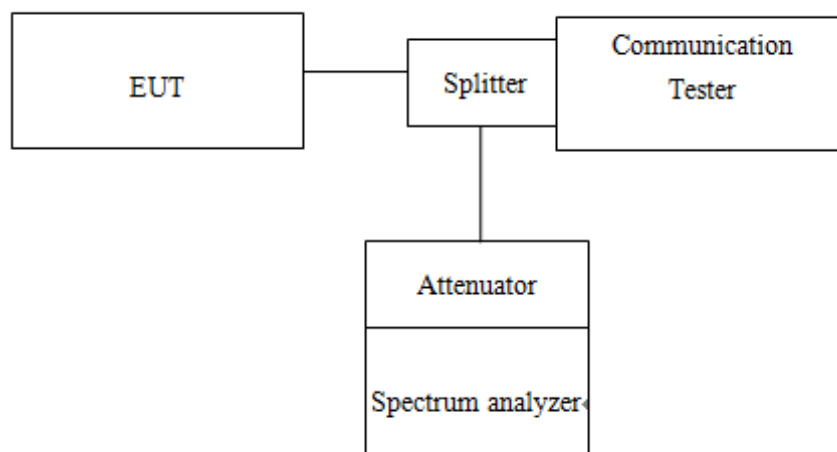
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12. PEAK TO AVERAGE RATIO

12.1. Standard Applicable

The peak-to-average ration (PAR) of the transmission may not exceed 13dB.

12.2. Test SET-UP



12.3. Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth \geq signal's occupied bandwidth; & internal =1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

12.4. Measurement Equipment Used

| Conducted Emission (measured at antenna port) Test Site | | | | | |
|---|---------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 01/29/2015 | 01/28/2016 |
| Radio Communication Analyzer | R&S | CMU200 | 102189 | 02/11/2015 | 02/10/2016 |
| Radio Communication Analyzer | Anritsu | MT8820C | 6200995019 | 10/08/2014 | 10/09/2015 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 01/02/2015 | 01/01/2016 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 002 | 01/02/2015 | 01/01/2016 |
| Splitter | Agilent | 11636B | N/A | 01/02/2015 | 01/01/2016 |
| DC Power Supply | Agilent | E3640A | MY52410006 | 11/10/2014 | 11/09/2015 |

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12.5. Measurement Result

Tabular Results:

| Frequency (MHz) | CH | Peak-to-Average Ratio (dB) | |
|--------------------|-----|-------------------------------|-------|
| | | GPRS | EDGE |
| 824.20 | 128 | 10.48 | 11.95 |
| 836.60 | 190 | 9.97 | 11.40 |
| 848.80 | 251 | 10.87 | 10.30 |

| Frequency (MHz) | CH | Peak-to-Average Ratio (dB) | |
|--------------------|-----|-------------------------------|-------|
| | | GPRS | EDGE |
| 1850.20 | 512 | 10.28 | 12.15 |
| 1880.00 | 661 | 10.42 | 12.50 |
| 1909.80 | 810 | 11.13 | 12.60 |

| Frequency (MHz) | CH | Peak-to-Average Ratio (dB) | | |
|--------------------|------|-------------------------------|----------|----------|
| | | WCDMA II | HSDPA II | HSUPA II |
| 1850.20 | 9262 | 3.14 | 3.92 | 3.98 |
| 1880.00 | 9400 | 3.16 | 3.94 | 3.69 |
| 1909.80 | 9538 | 3.18 | 3.80 | 3.18 |

| Frequency (MHz) | CH | Peak-to-Average Ratio (dB) | | |
|--------------------|------|-------------------------------|---------|---------|
| | | WCDMA V | HSDPA V | HSUPA V |
| 826.40 | 4132 | 3.33 | 3.68 | 3.79 |
| 836.60 | 4183 | 3.74 | 5.21 | 4.90 |
| 846.60 | 4233 | 3.22 | 4.37 | 4.02 |

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| Frequency (MHz) | CH | Peak-to-Average Ratio (dB) | |
|--------------------|------|-------------------------------|-------------|
| | | CDMA BC0 | EVDO BC0 |
| 1850.20 | 9262 | 3.93 | 3.89 |
| 1880.00 | 9400 | 3.47 | 3.47 |
| 1909.80 | 9538 | 3.58 | 3.56 |

| Frequency (MHz) | CH | Peak-to-Average Ratio (dB) | |
|--------------------|------|-------------------------------|-------------|
| | | CDMA BC1 | EVDO BC1 |
| 826.40 | 4132 | 3.48 | 3.45 |
| 836.60 | 4183 | 3.80 | 3.87 |
| 846.60 | 4233 | 3.35 | 3.28 |

| Frequency (MHz) | CH | Peak-to-Average Ratio (dB) | |
|--------------------|-----|-------------------------------|--------------|
| | | CDMA BC10 | EVDO BC10 |
| 817.9 | 476 | 3.73 | 3.80 |
| 820.5 | 580 | 3.84 | 3.89 |
| 823.1 | 684 | 3.89 | 3.89 |

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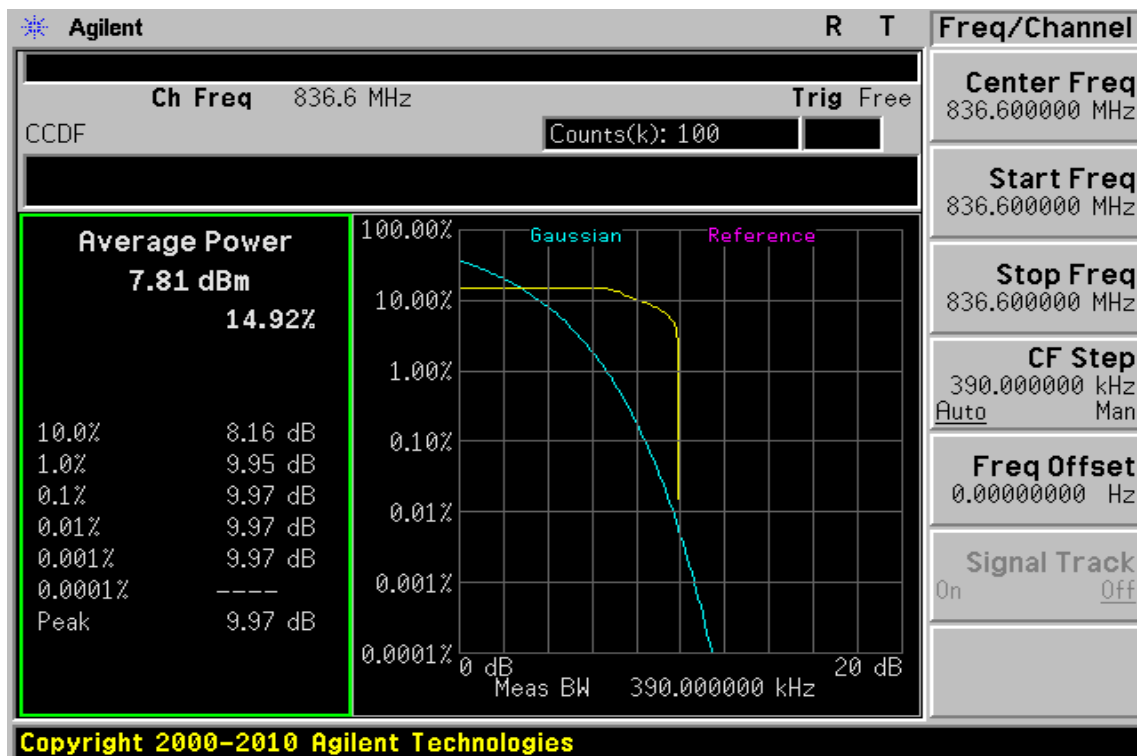
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Measurement Results:

GPRS 850 Channel Low



GPRS 850 Channel Mid



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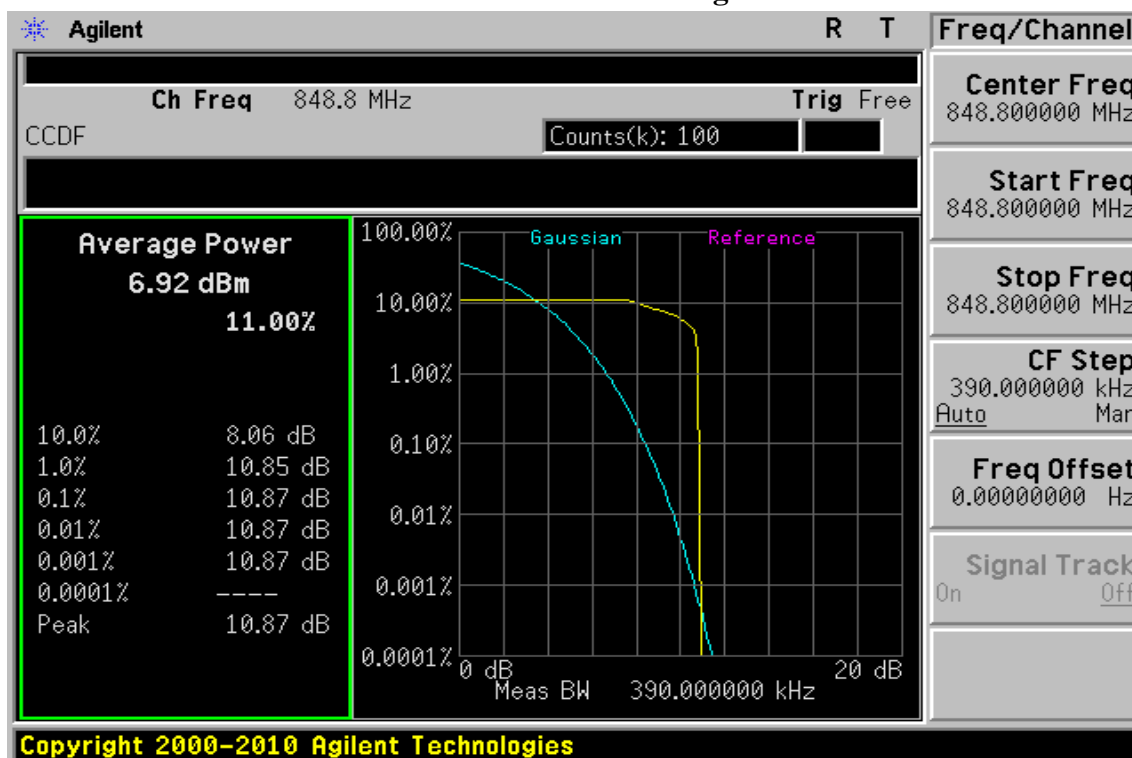
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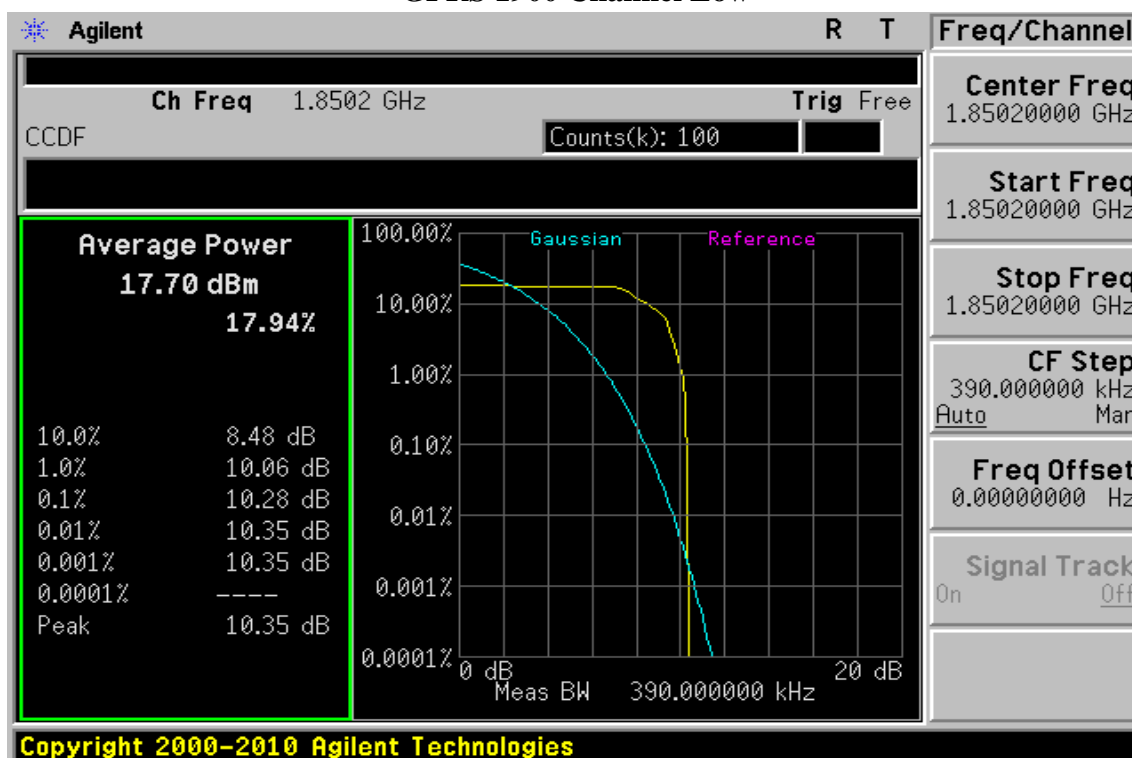
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GPRS 850 Channel High



GPRS 1900 Channel Low



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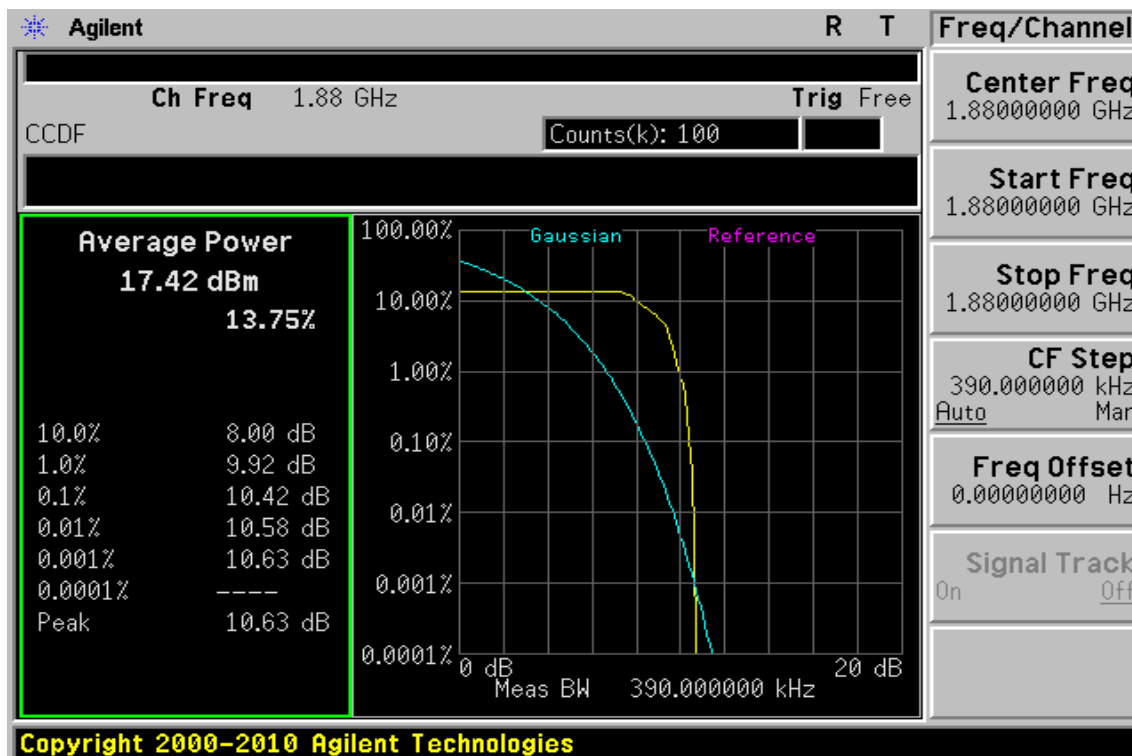
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GPRS 1900 Channel Mid



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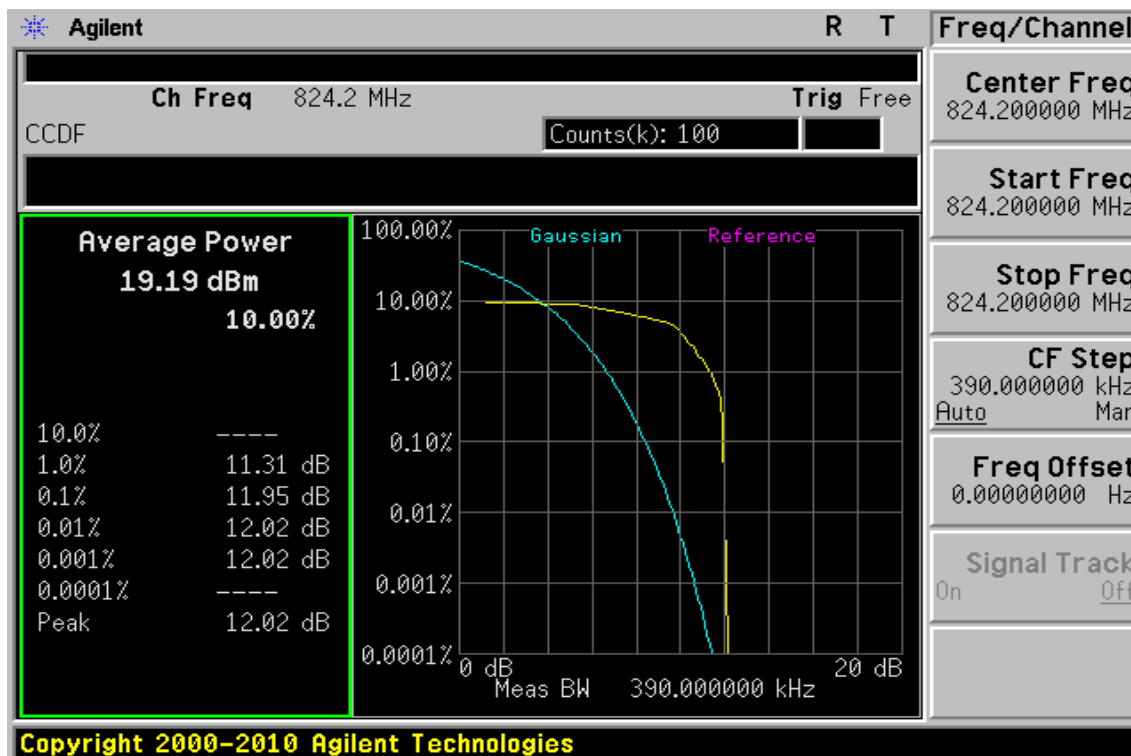
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EDGE 850 Channel Low



EDGE 850 Channel Mid



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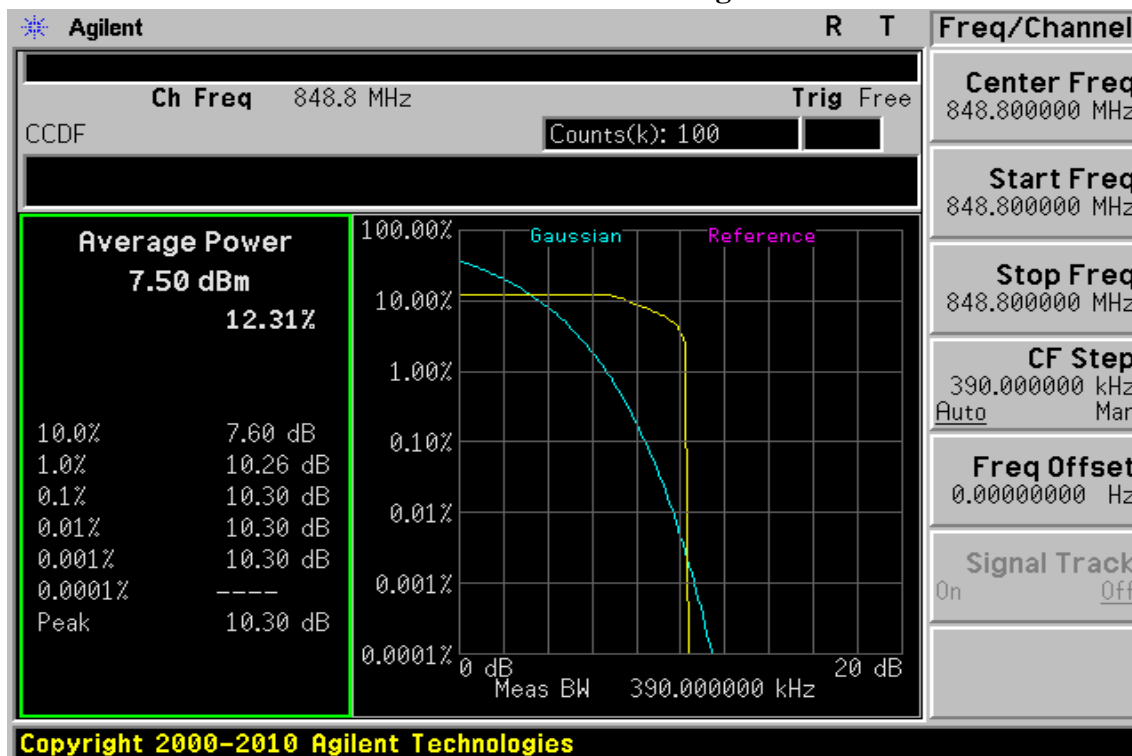
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EDGE 850 Channel High



EDGE 1900 Channel Low



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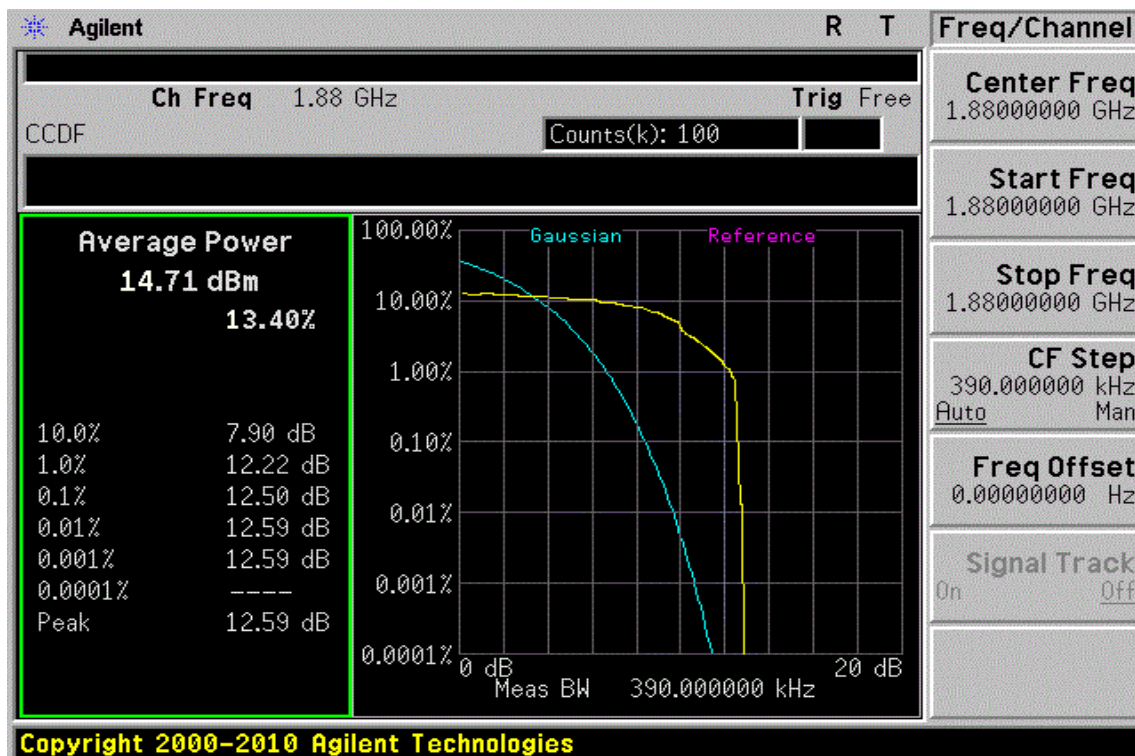
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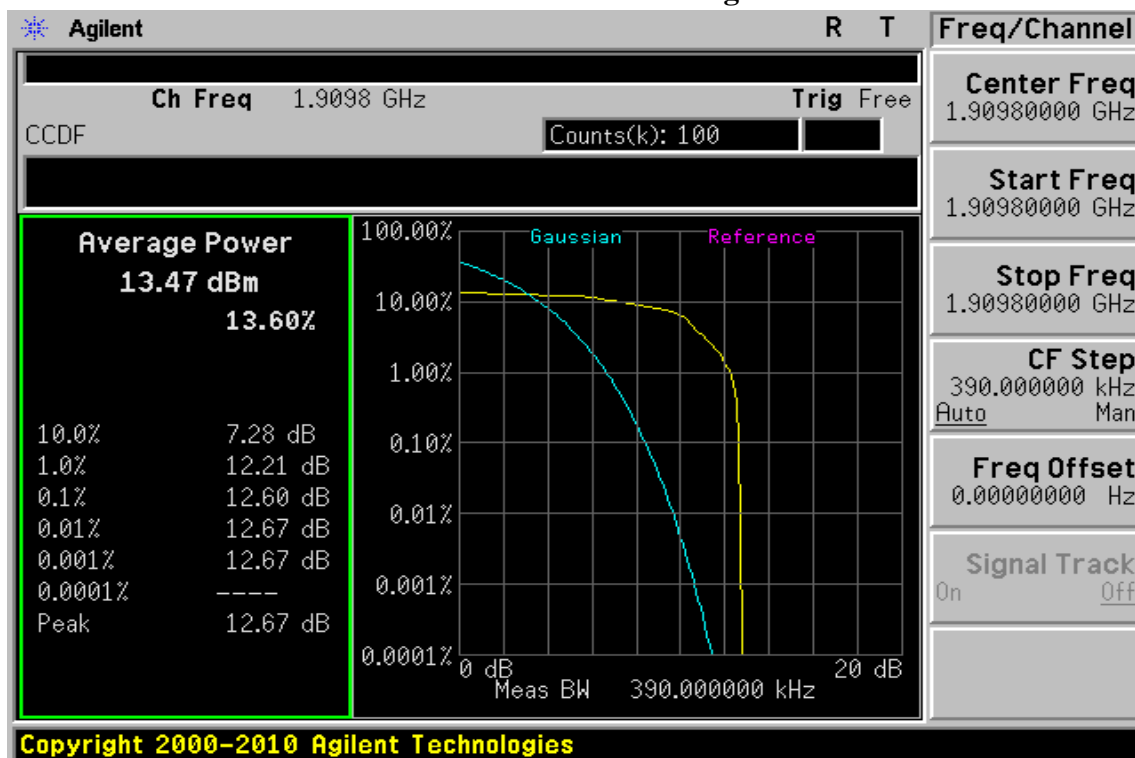
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EDGE 1900 Channel Mid



EDGE 1900 Channel High



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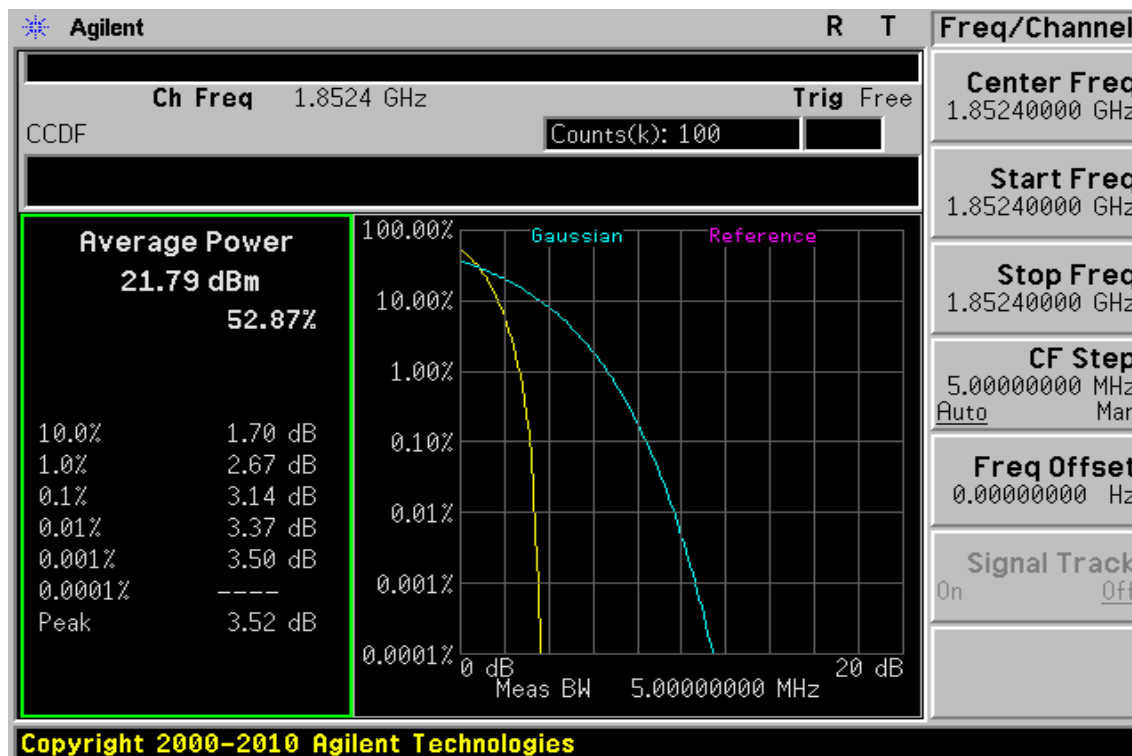
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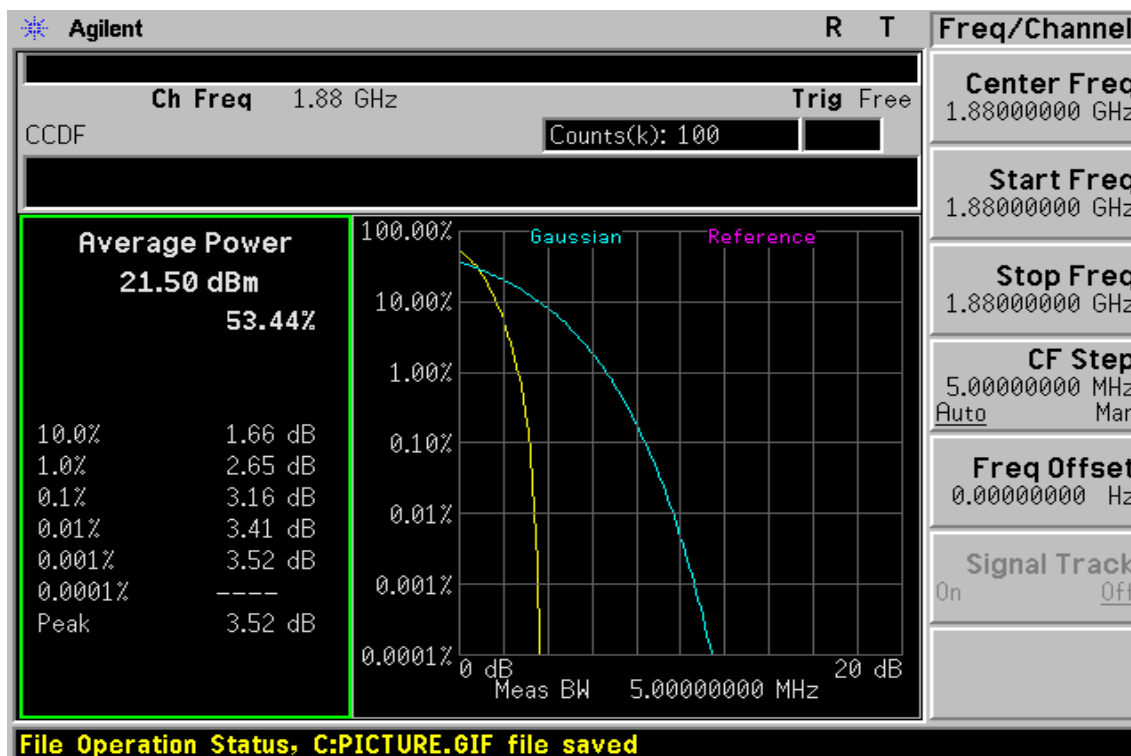
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WCDMA Band II Channel Low



WCDMA Band II Channel Mid



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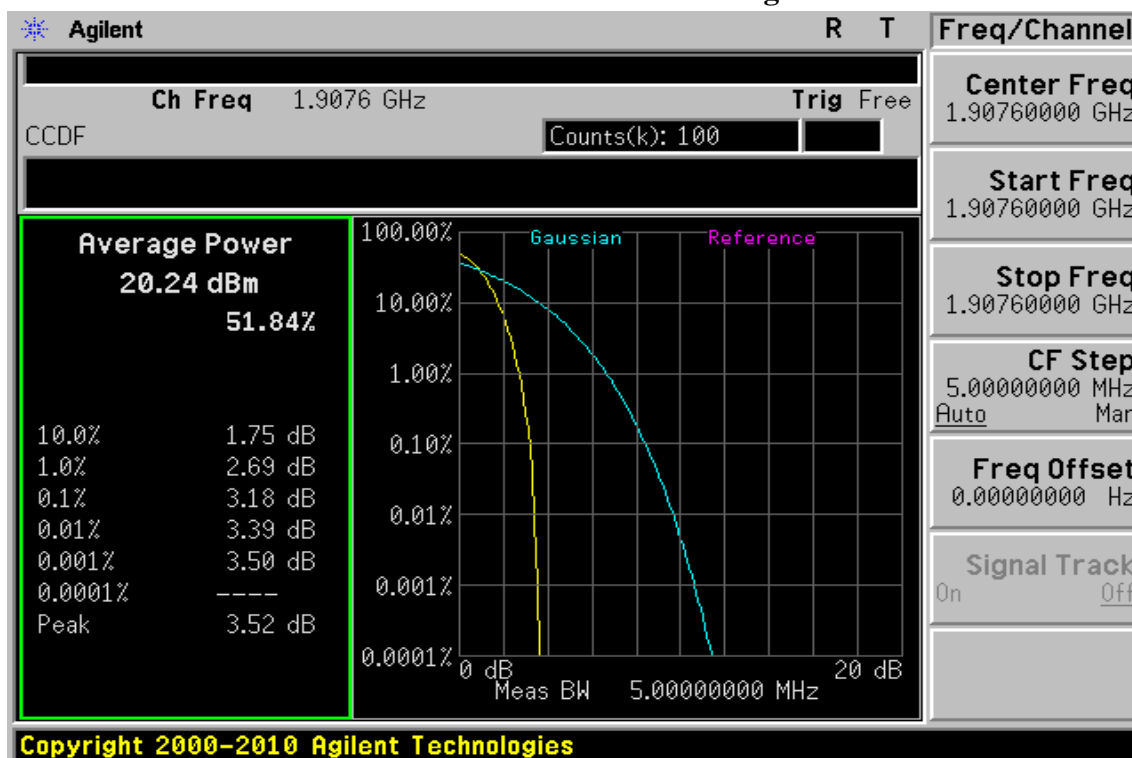
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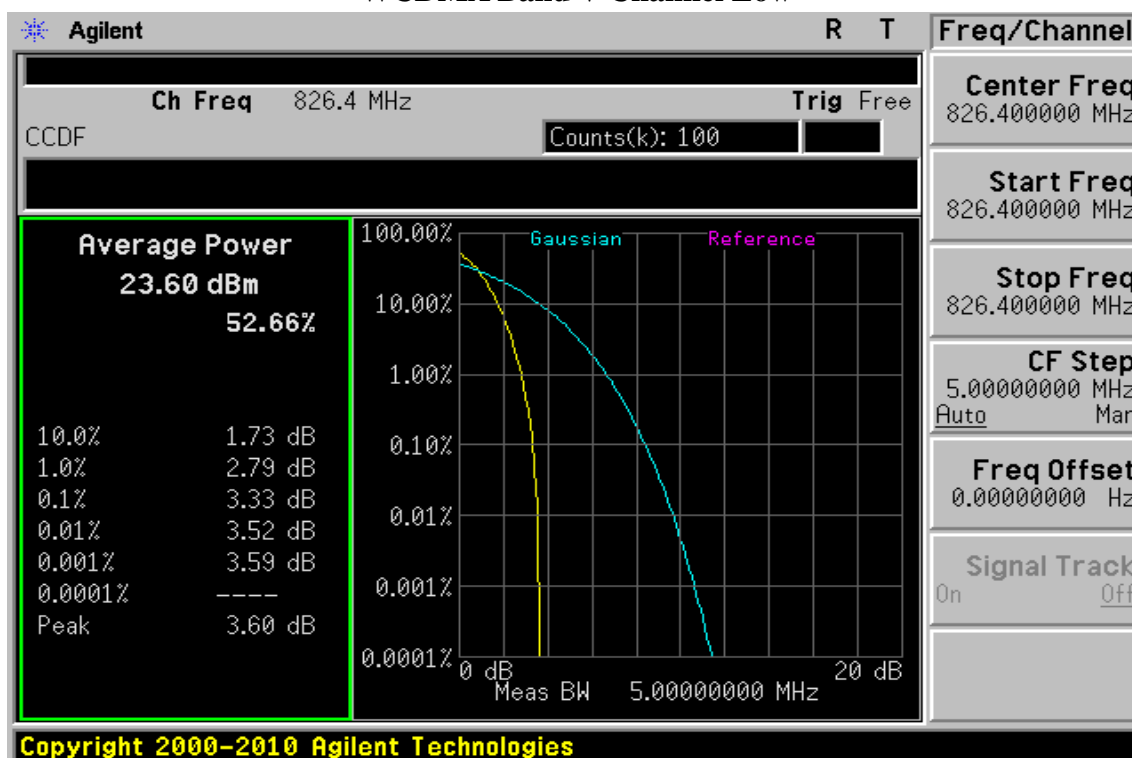
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WCDMA Band II Channel High



WCDMA Band V Channel Low



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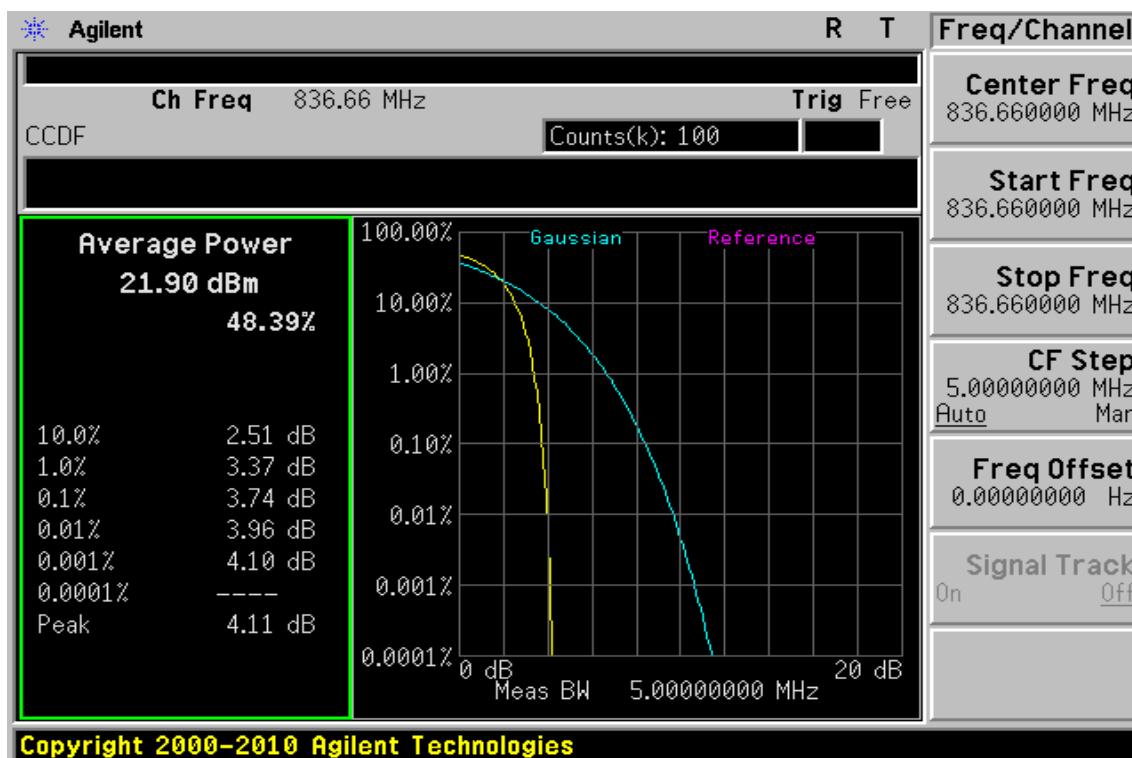
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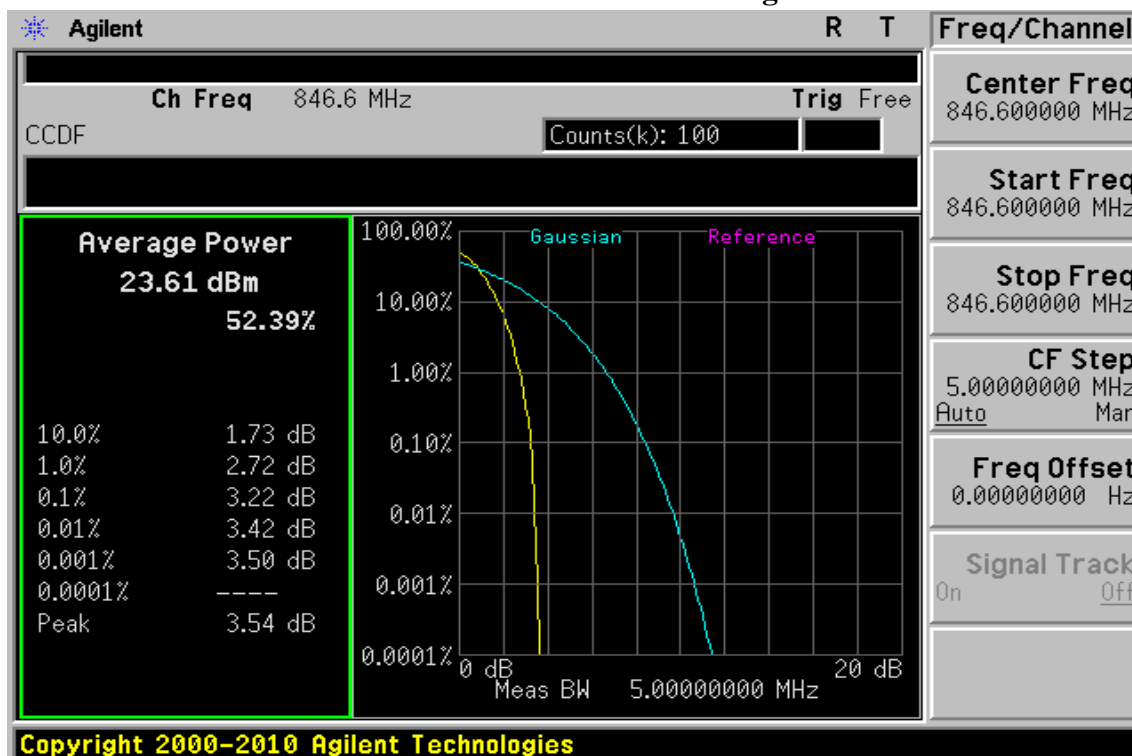
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WCDMA Band V Channel Mid



WCDMA Band V Channel High



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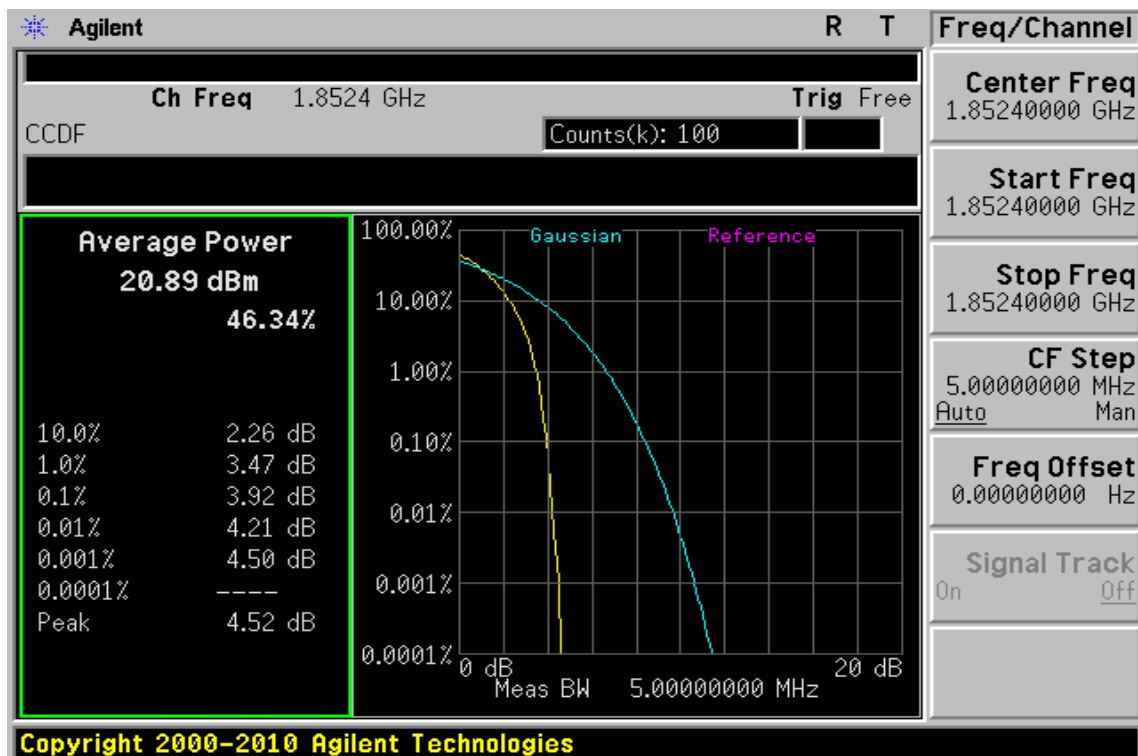
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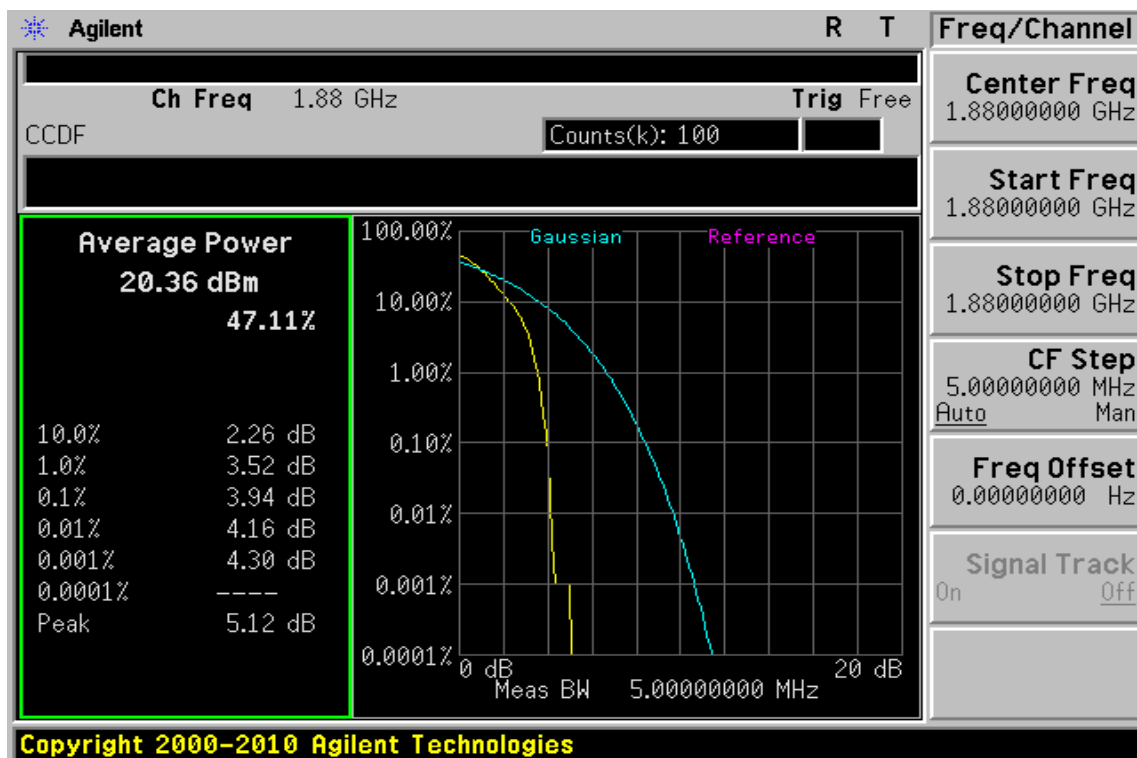
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HSDPA Band II Channel Low



HSDPA Band II Channel Mid



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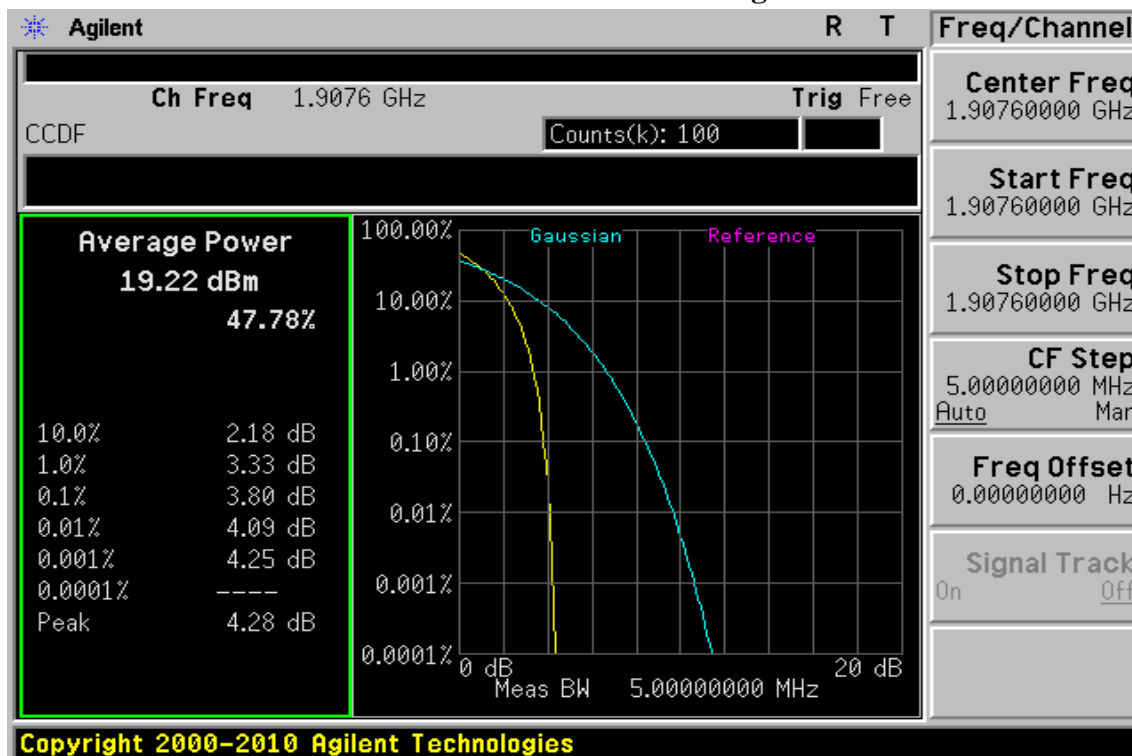
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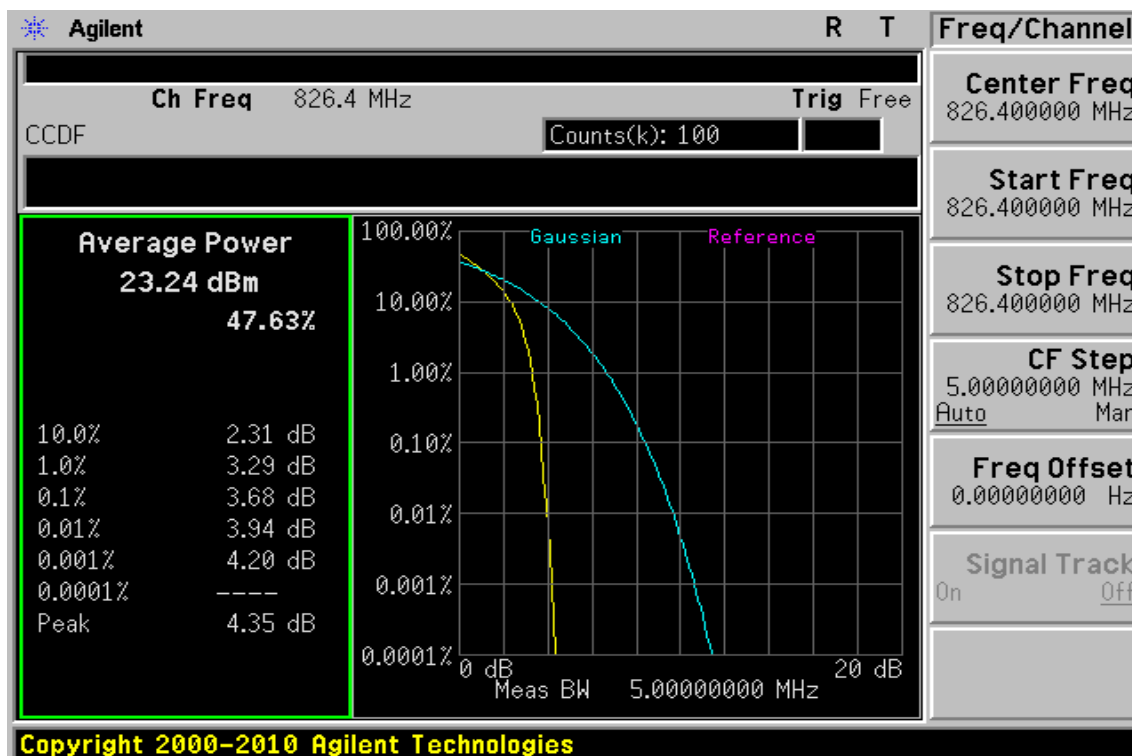
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HSDPA Band II Channel High



HSDPA Band V Channel Low



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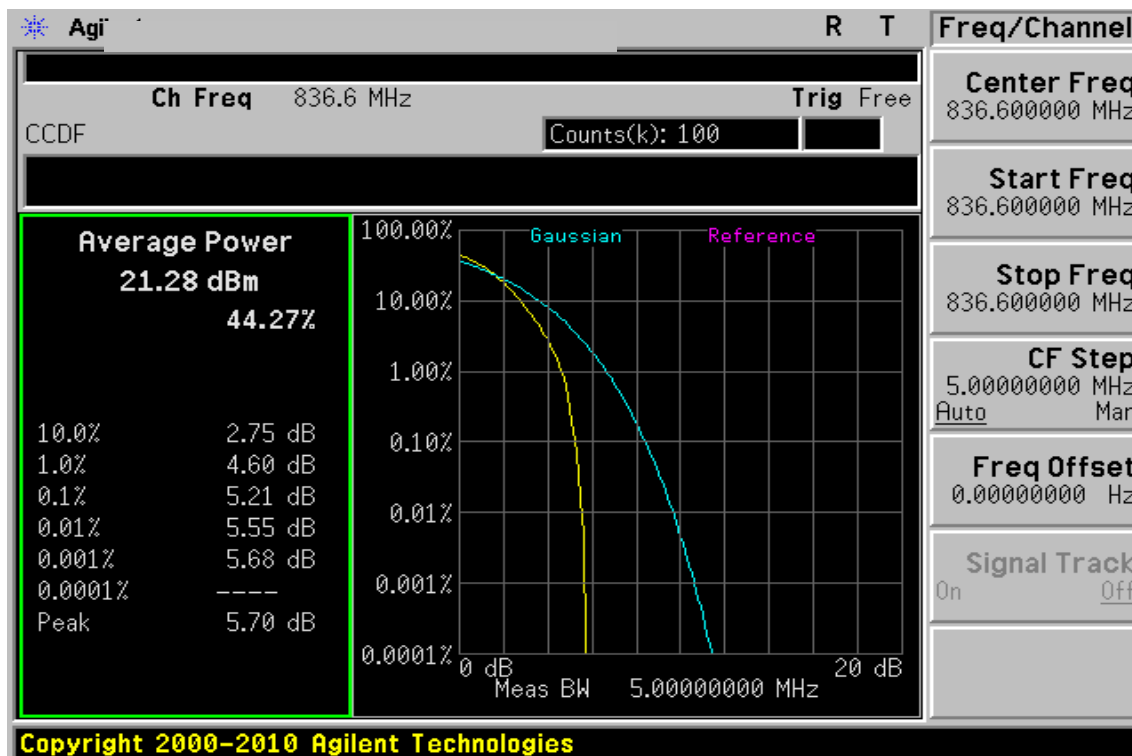
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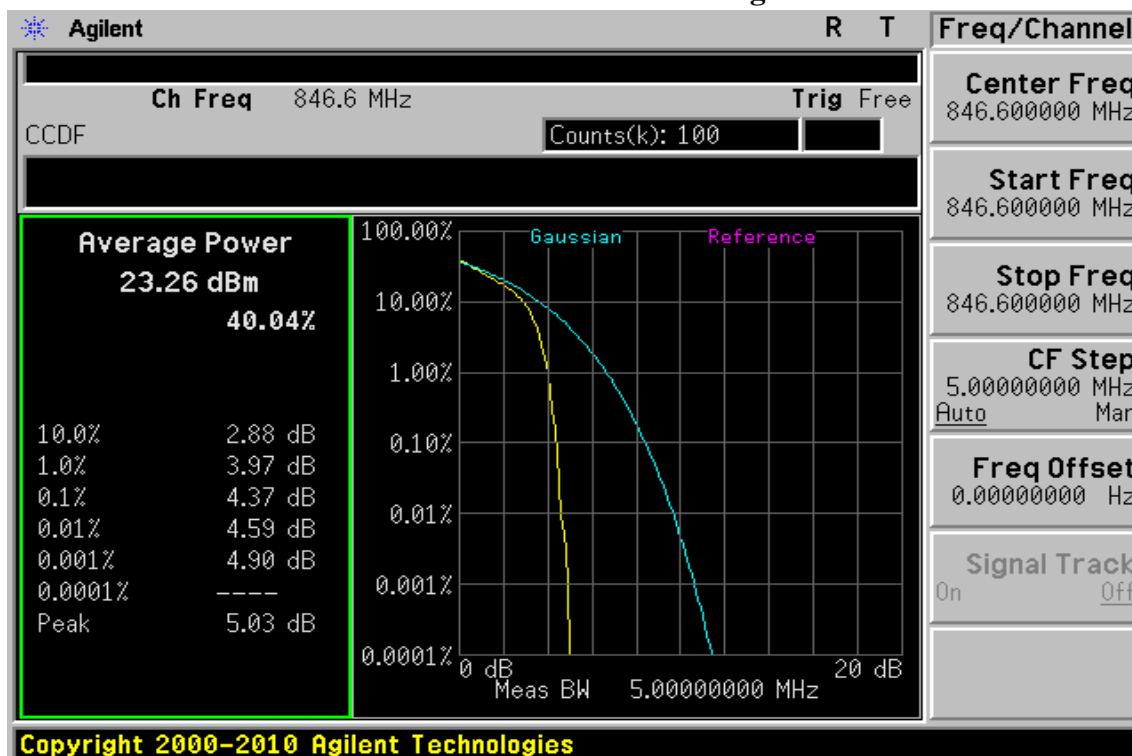
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HSDPA Band V Channel Mid



HSDPA Band V Channel High



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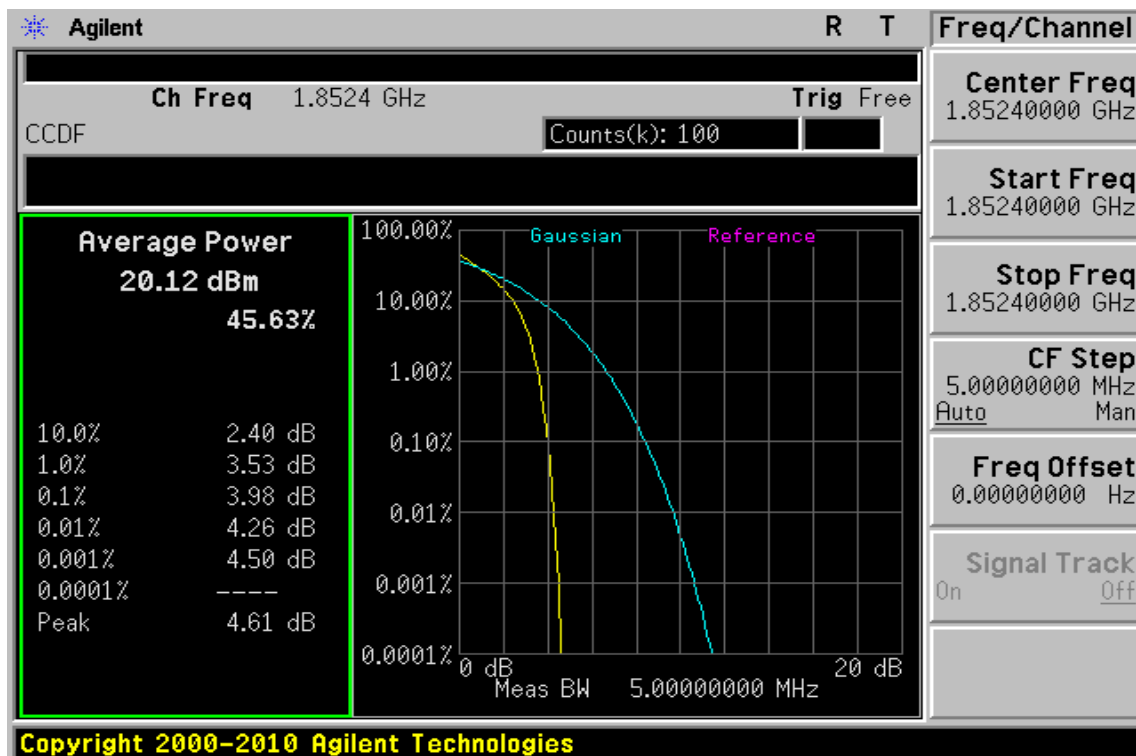
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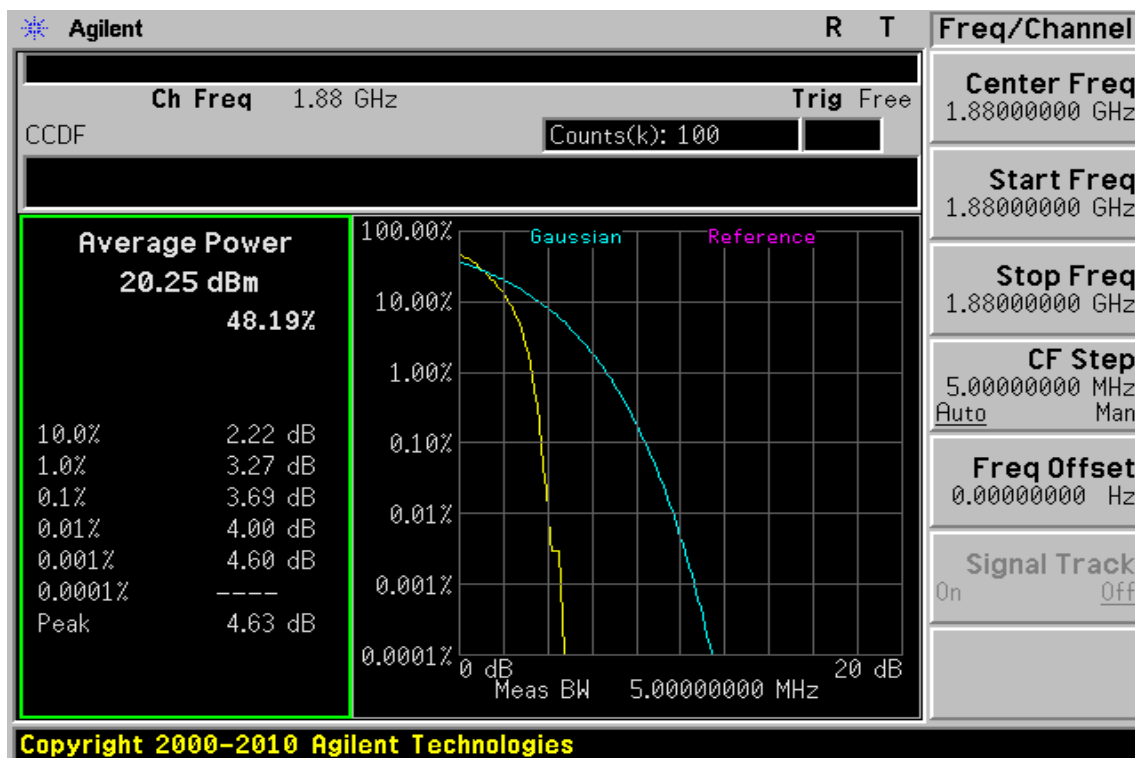
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HSUPA Band II Channel Low



HSUPA Band II Channel Mid



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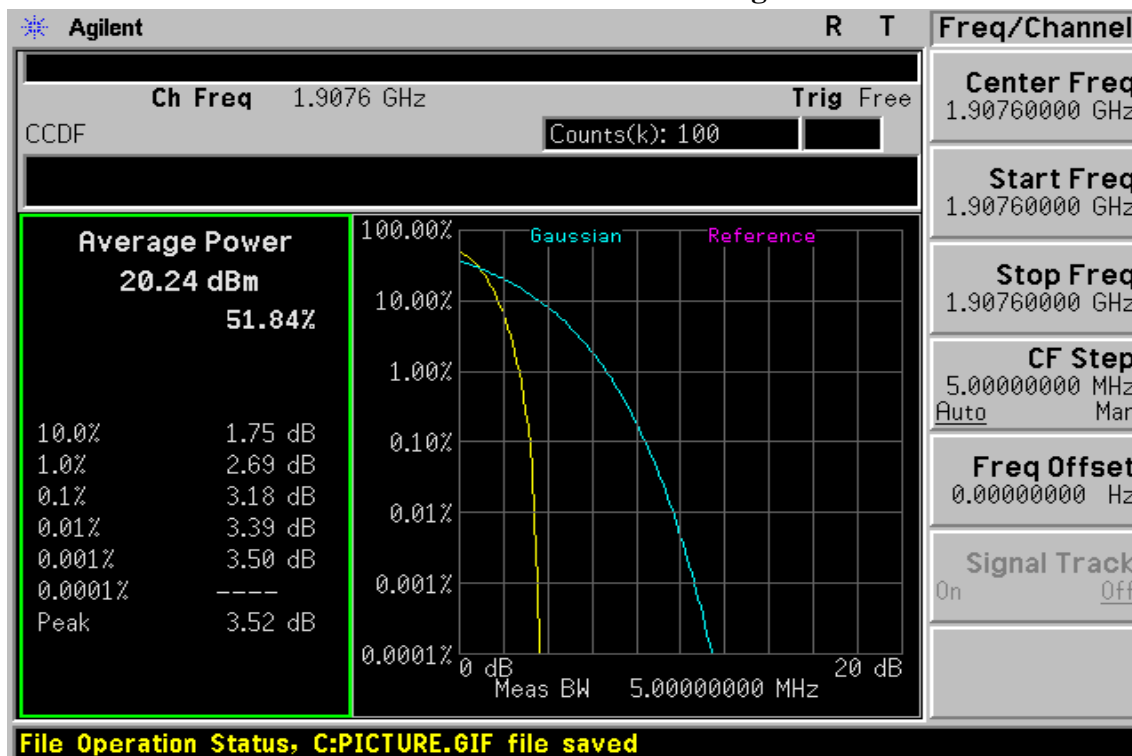
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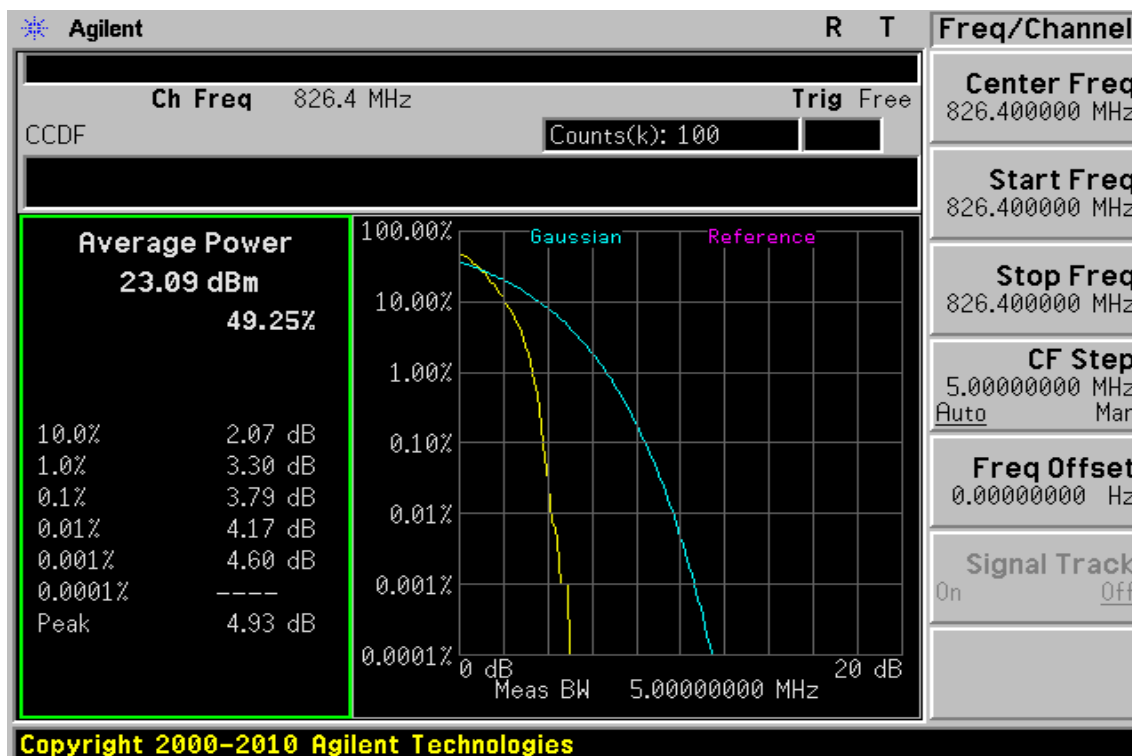
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HSUPA Band II Channel High



HSUPA Band V Channel Low



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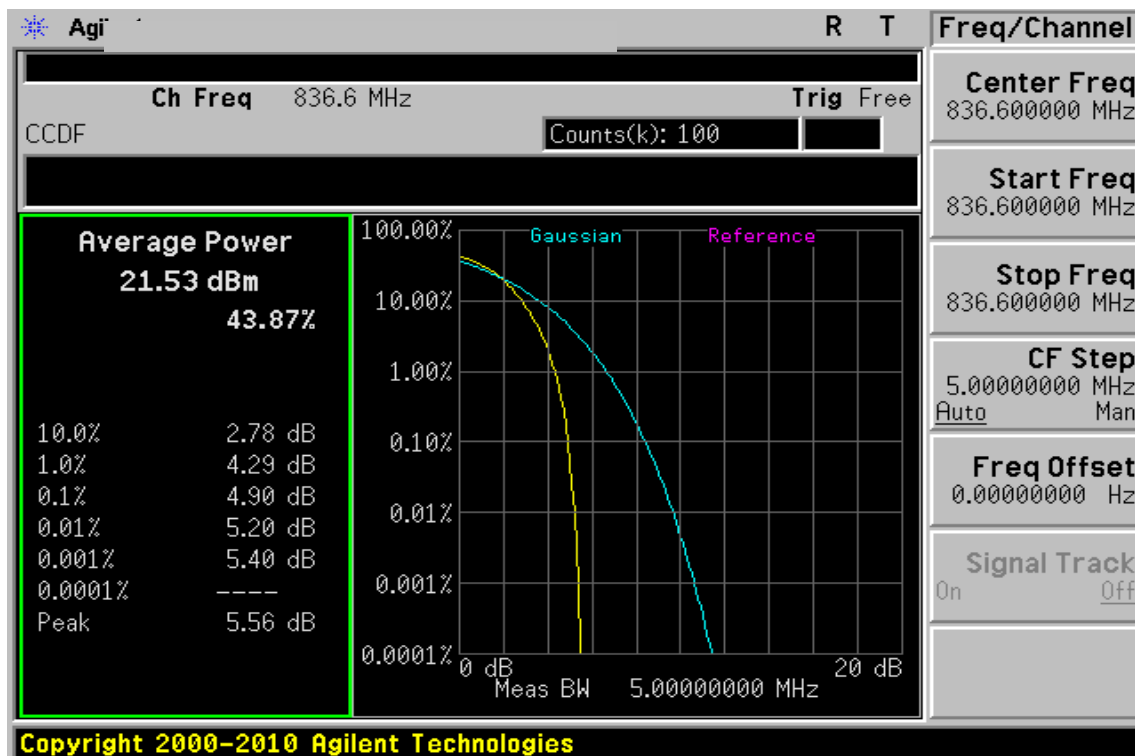
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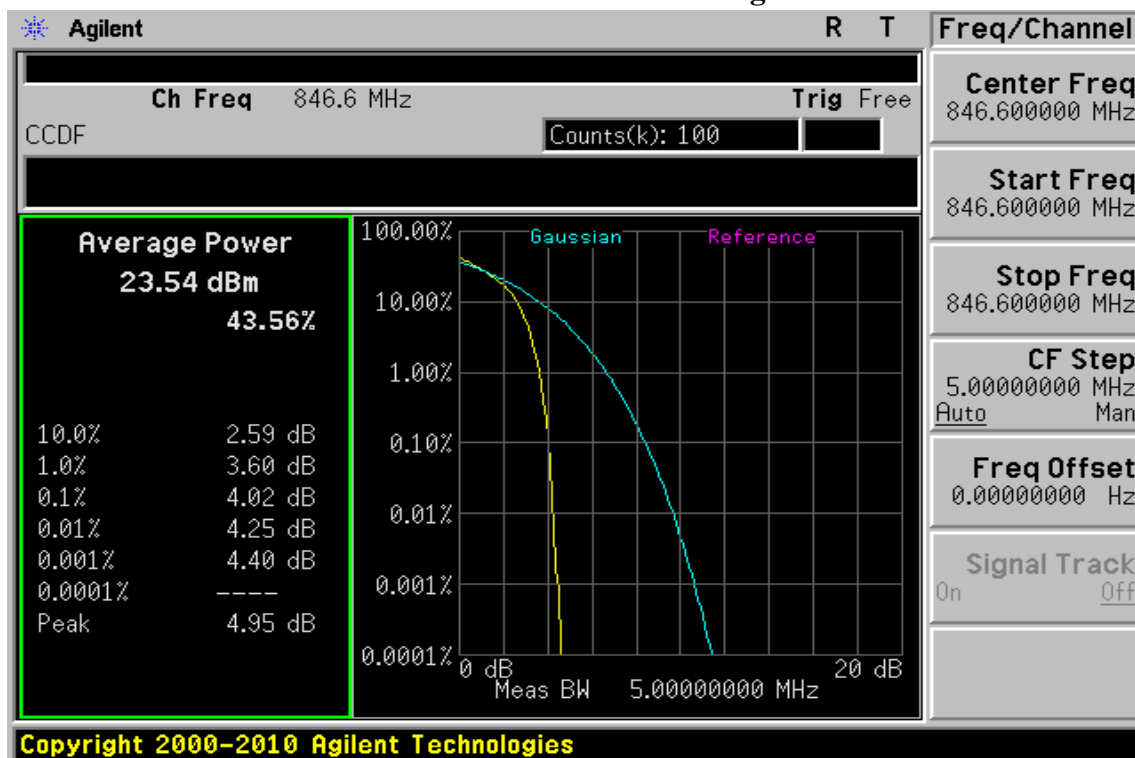
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HSUPA Band V Channel Mid



HSUPA Band V Channel High



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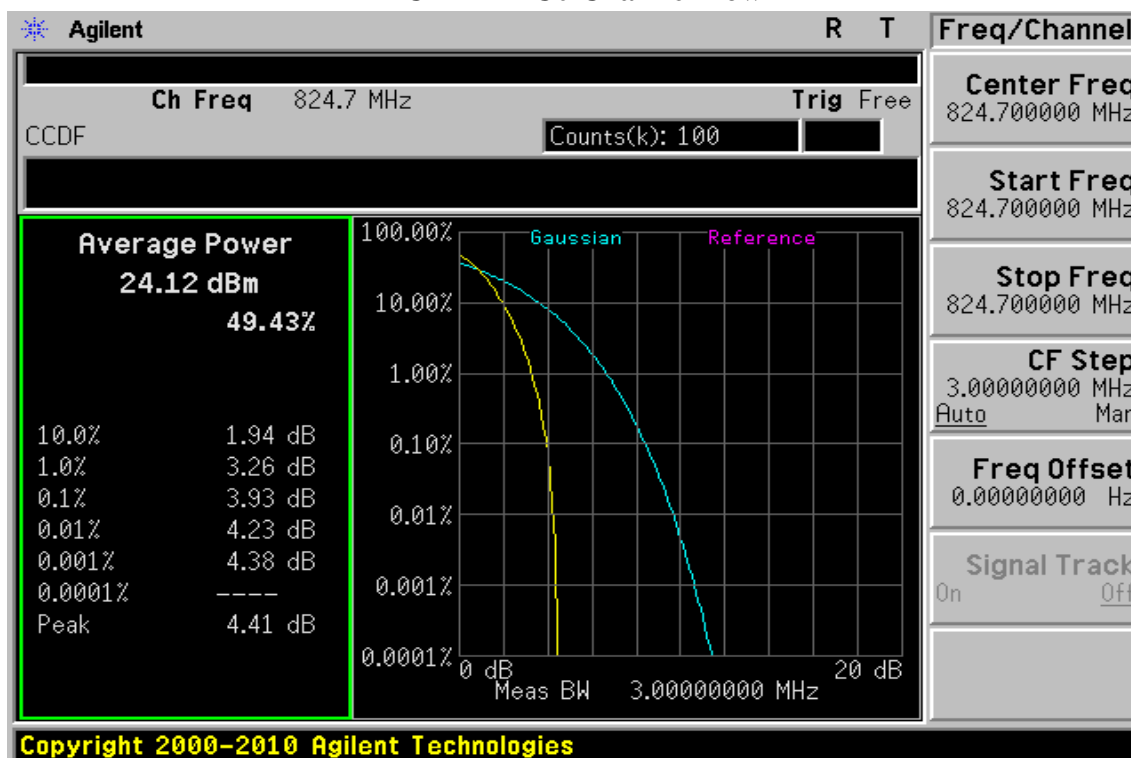
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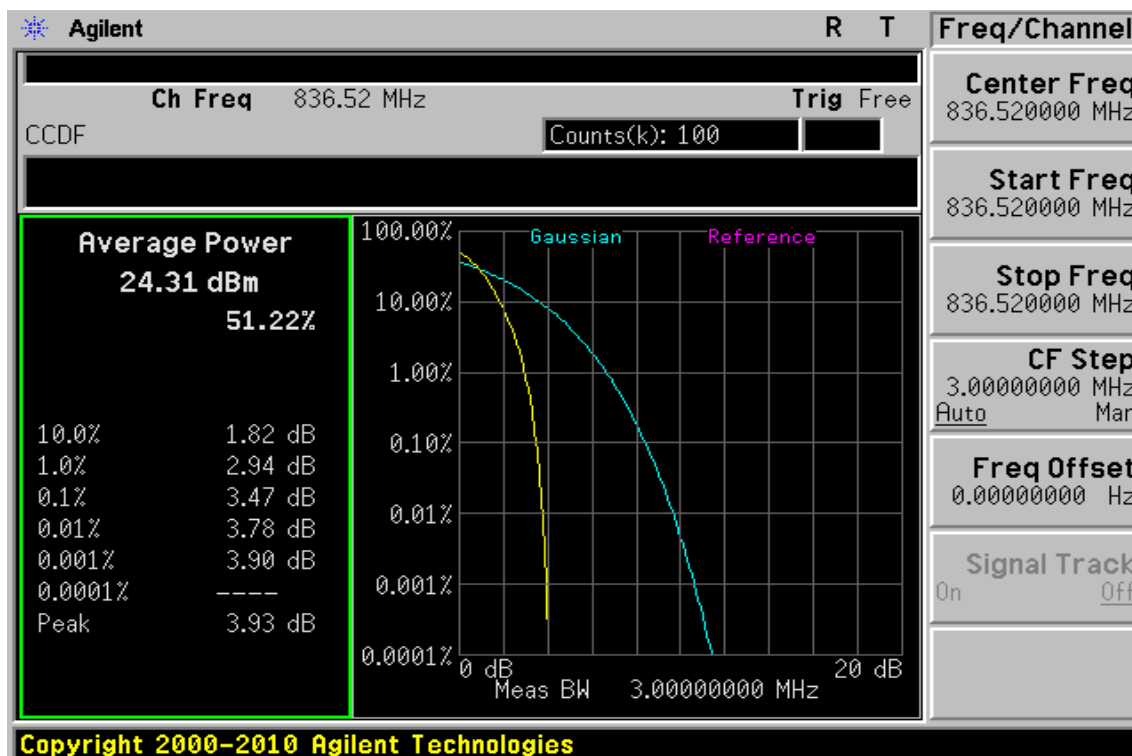
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CDMA BC0 Channel Low



CDMA BC0 Channel Mid



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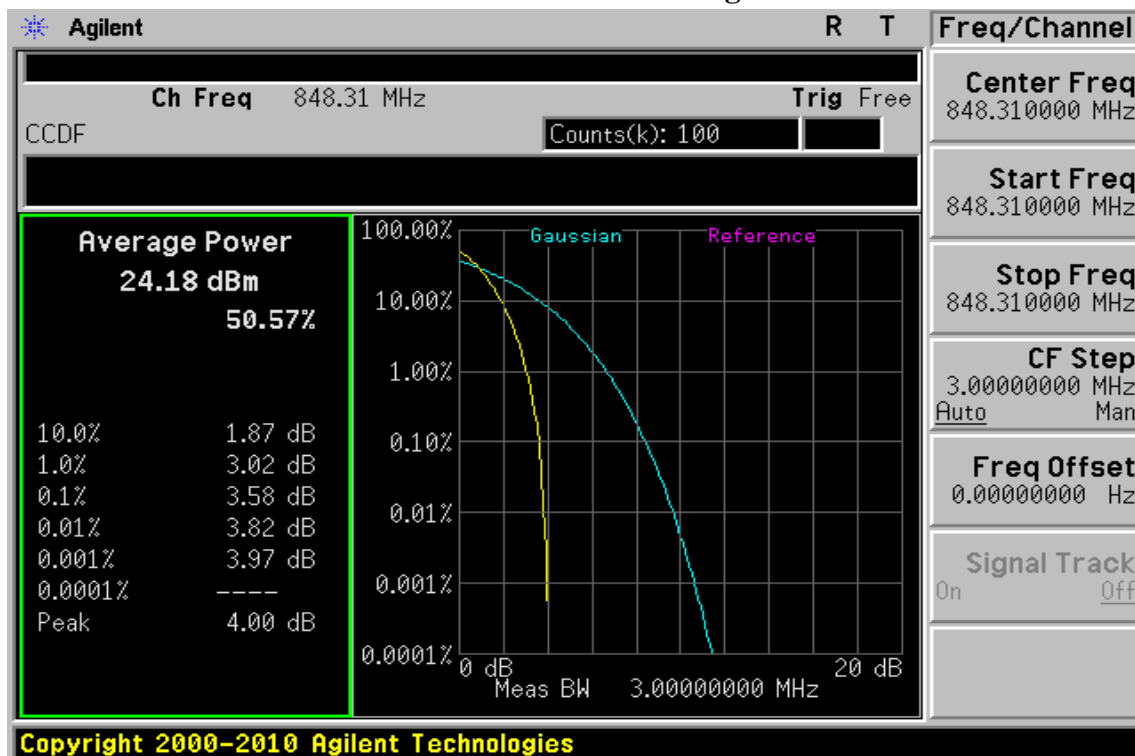
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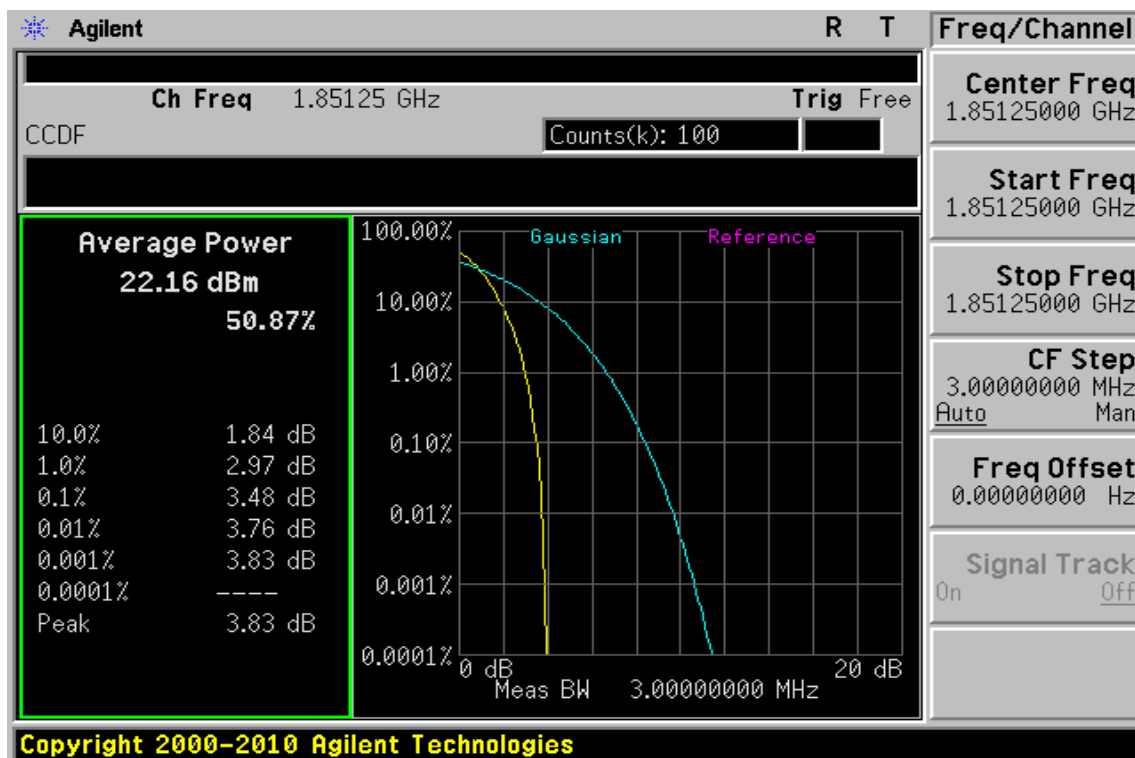
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CDMA BC0 Channel High



CDMA BC1 Channel Low



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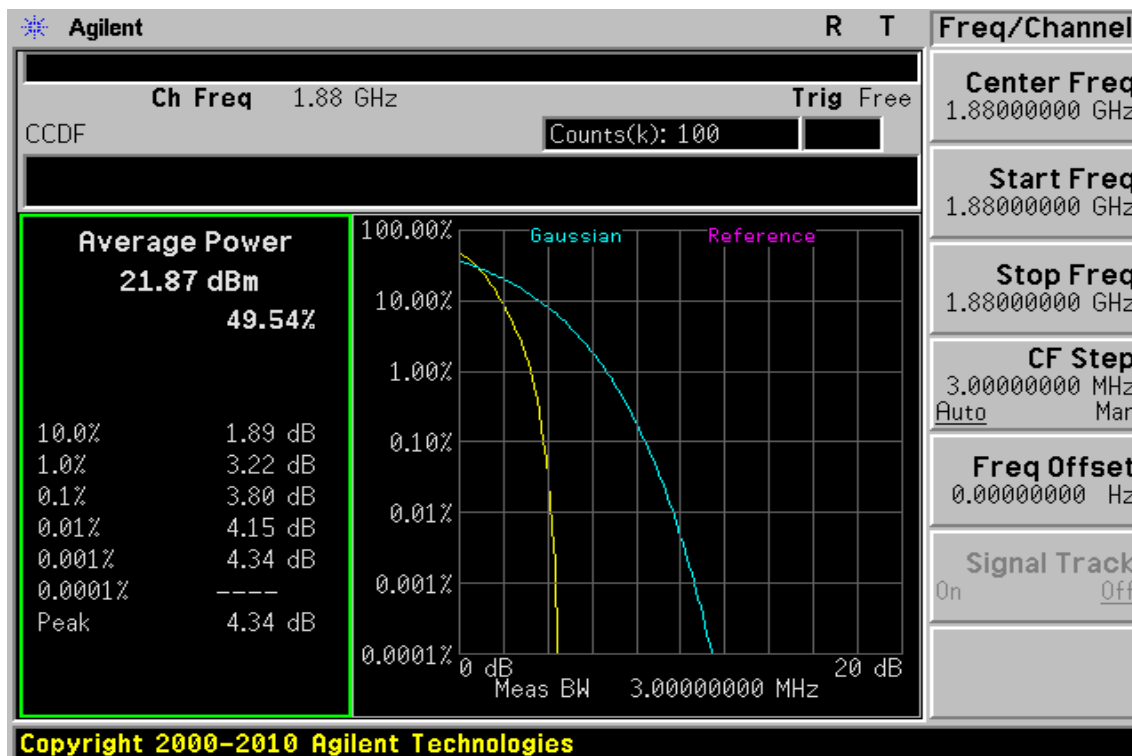
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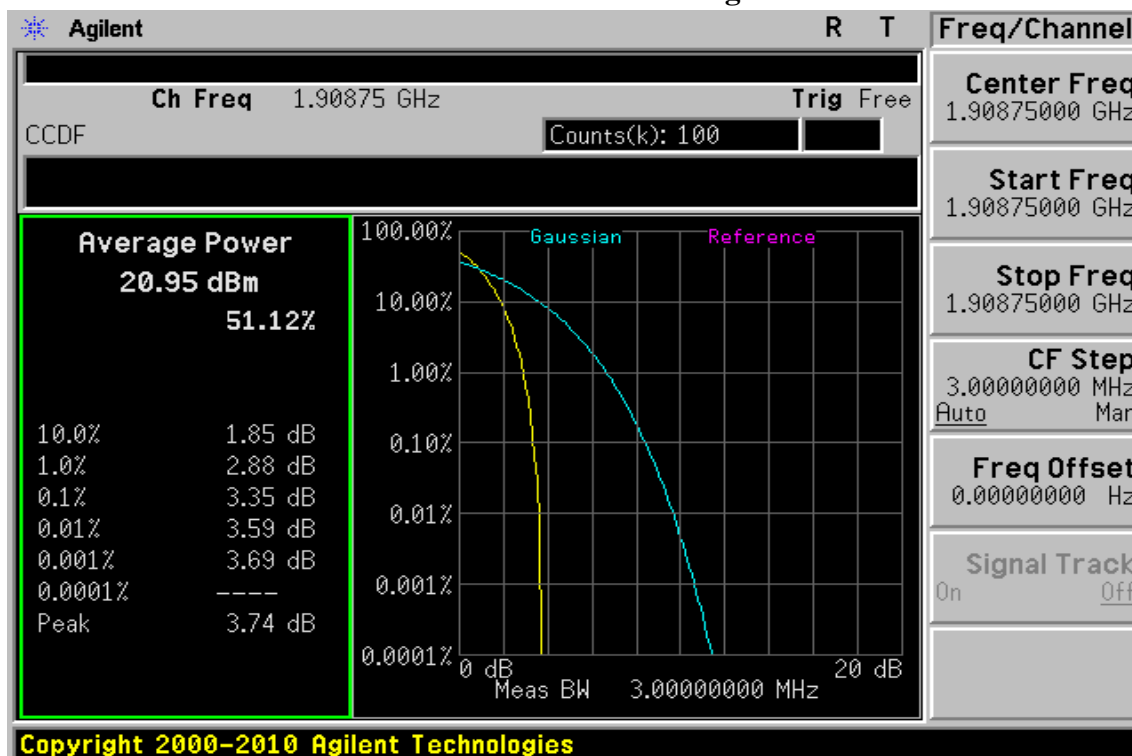
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CDMA BC1 Channel Mid



CDMA BC1 Channel High



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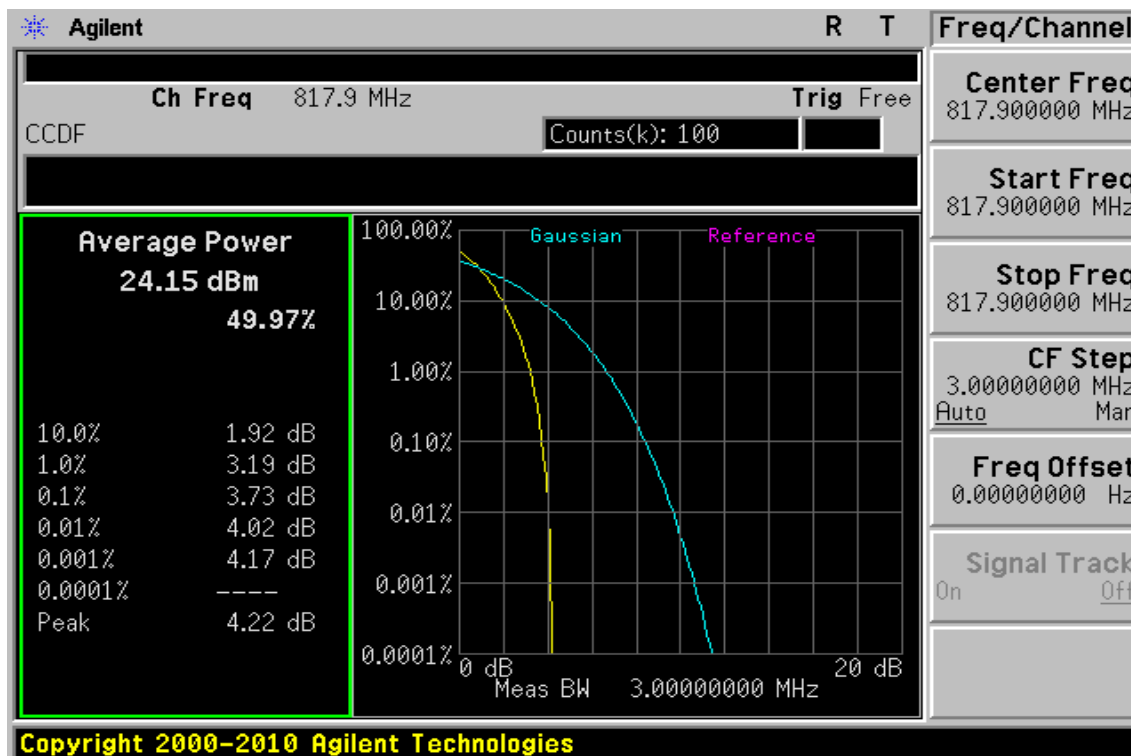
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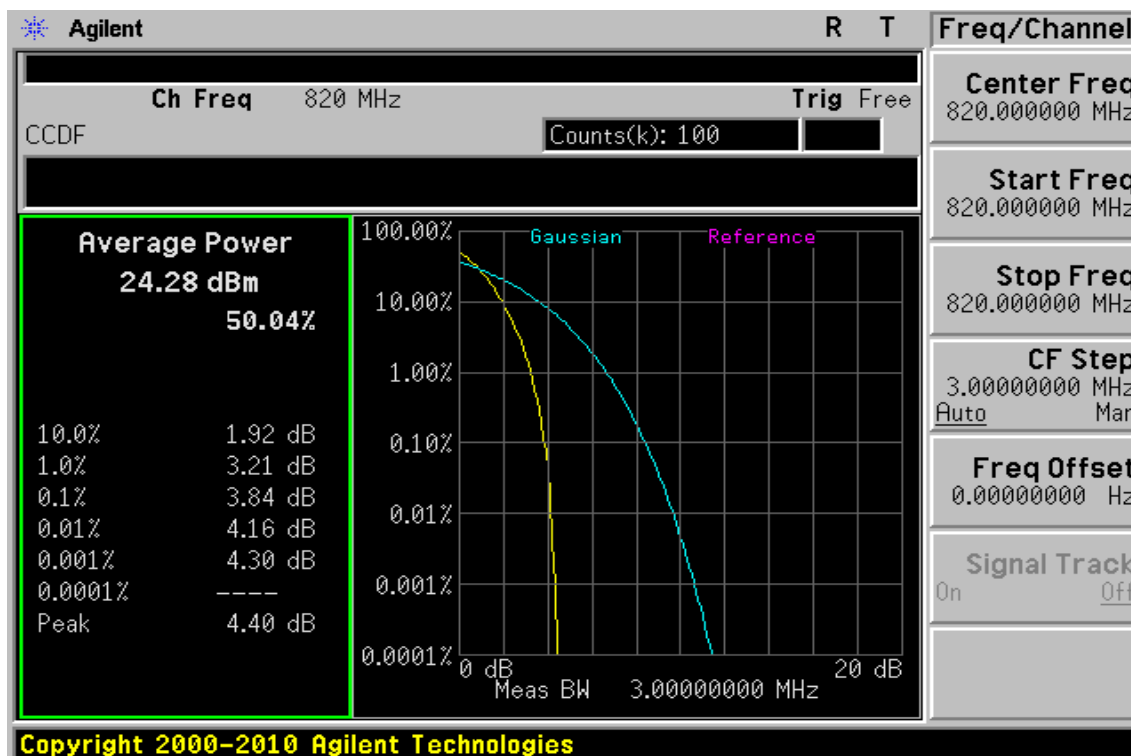
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CDMA BC10 Channel Low



CDMA BC10 Channel Mid



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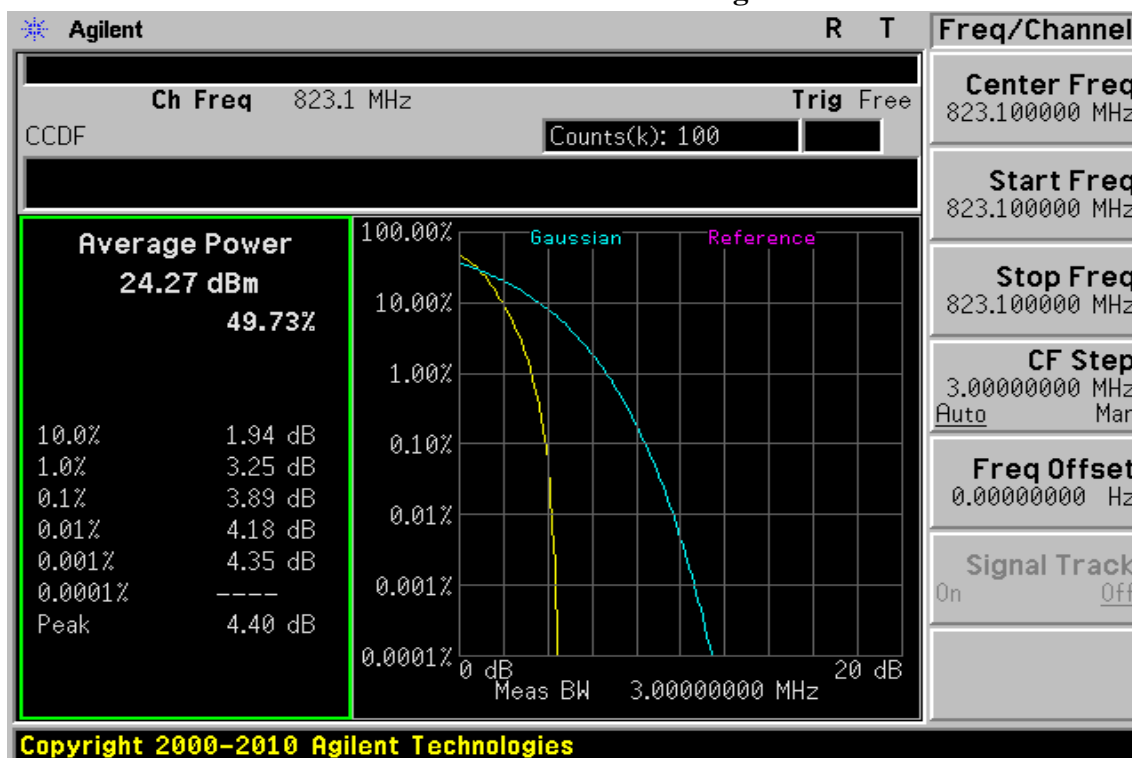
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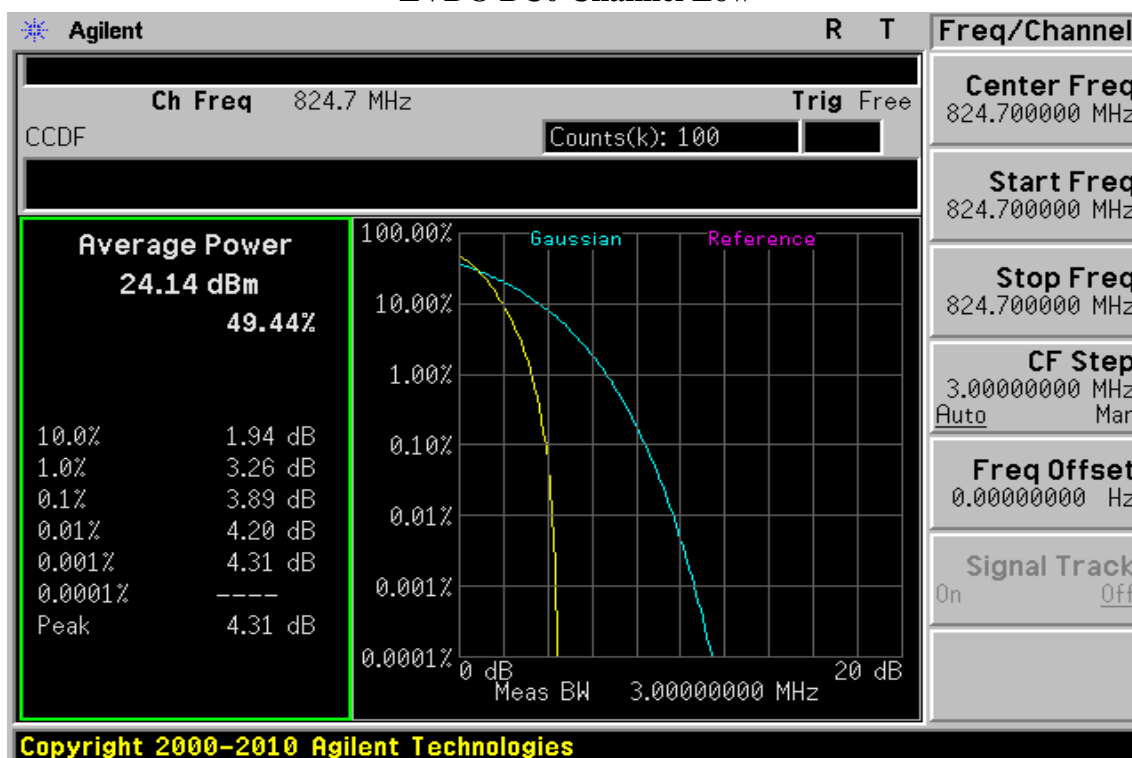
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CDMA BC10 Channel High



EVDO BC0 Channel Low



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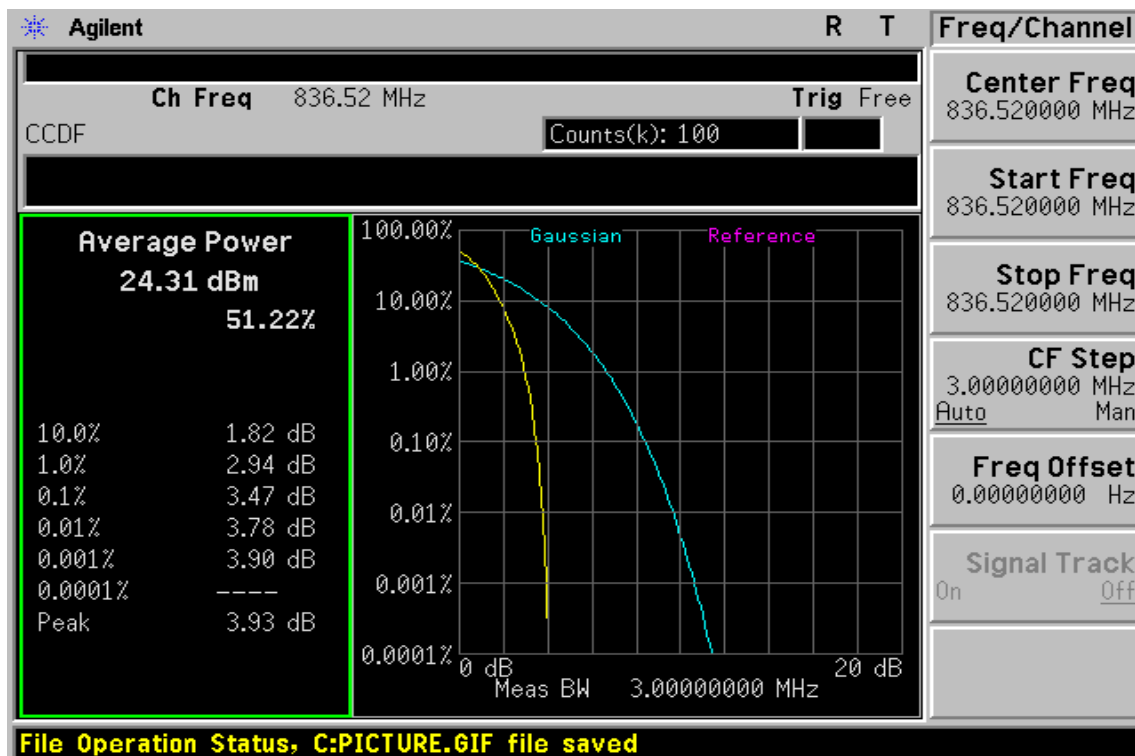
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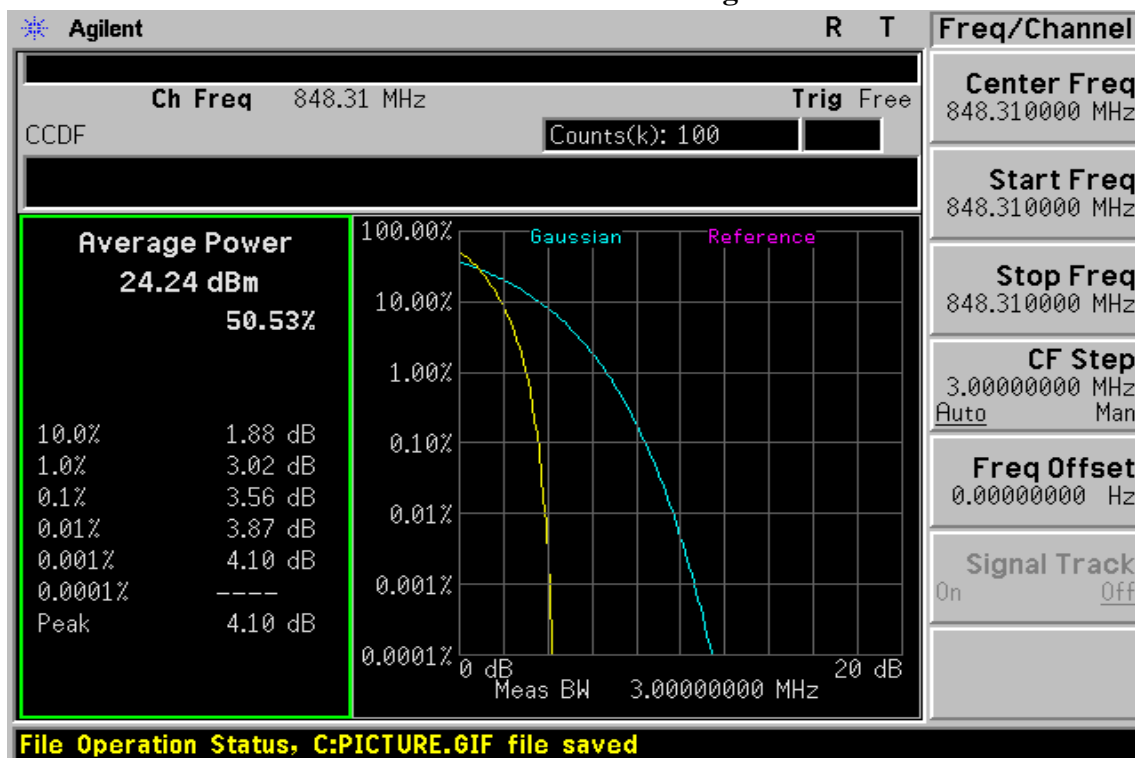
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EVDO BC0 Channel Mid



EVDO BC0 Channel High



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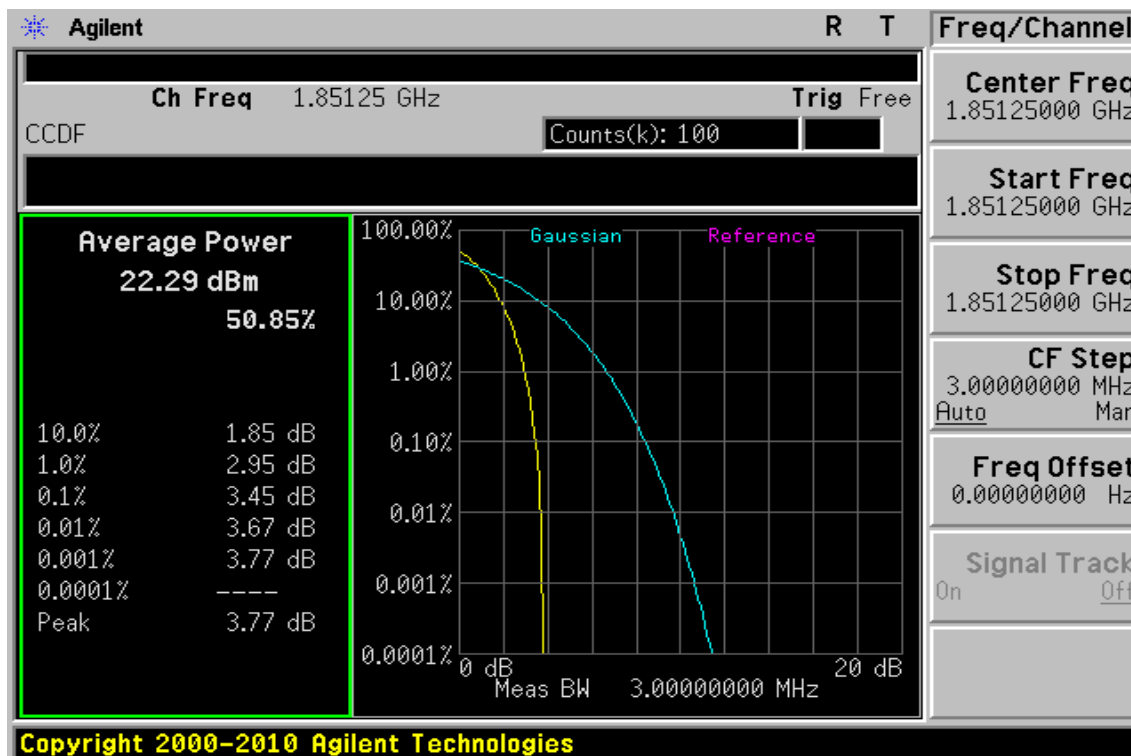
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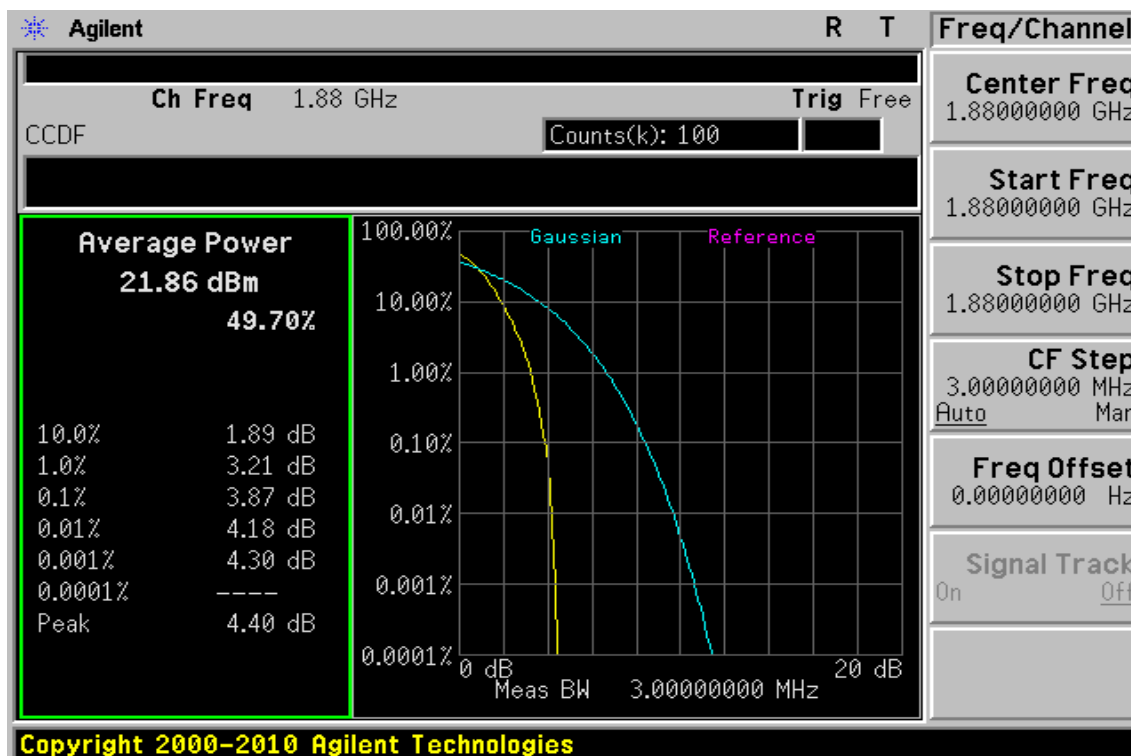
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EVDO BC1 Channel Low



EVDO BC1 Channel Mid



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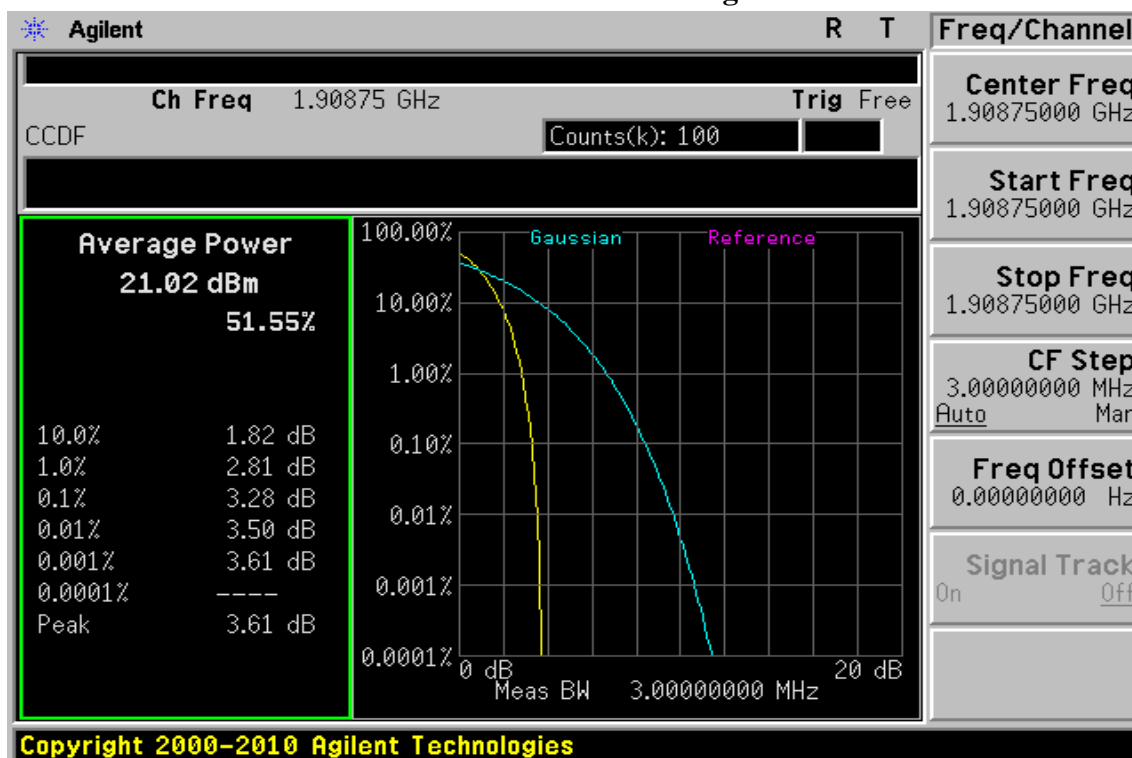
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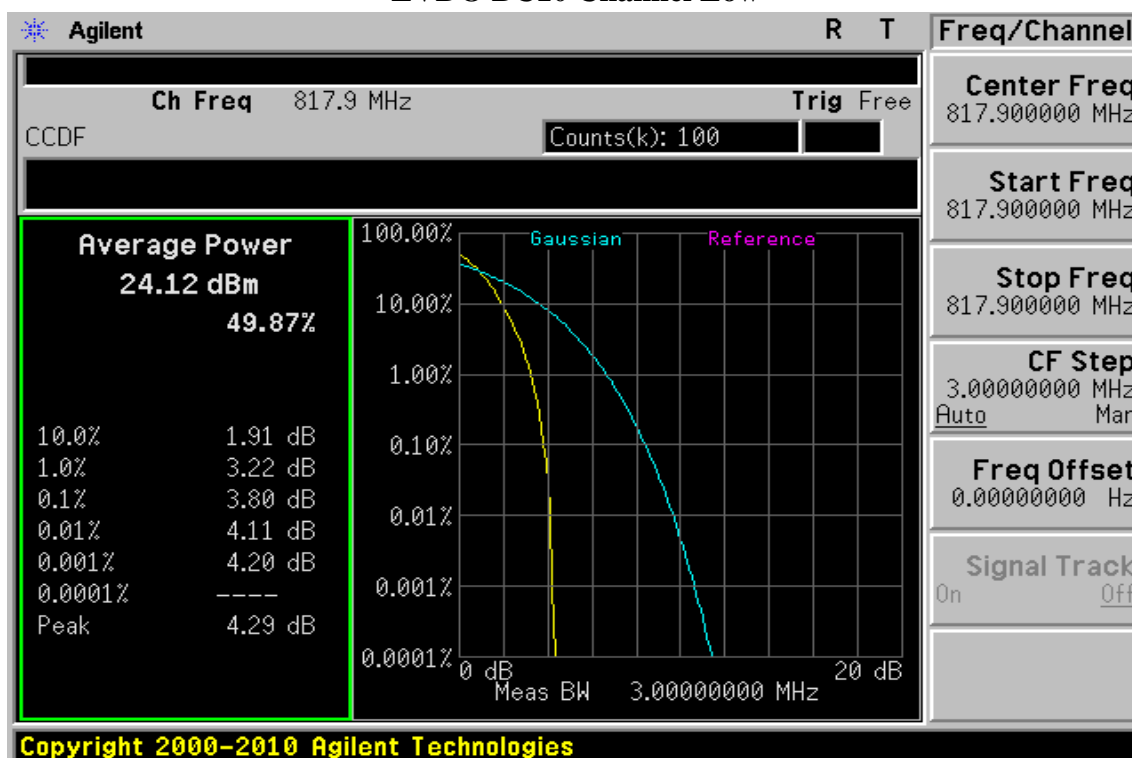
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EVDO BC1 Channel High



EVDO BC10 Channel Low



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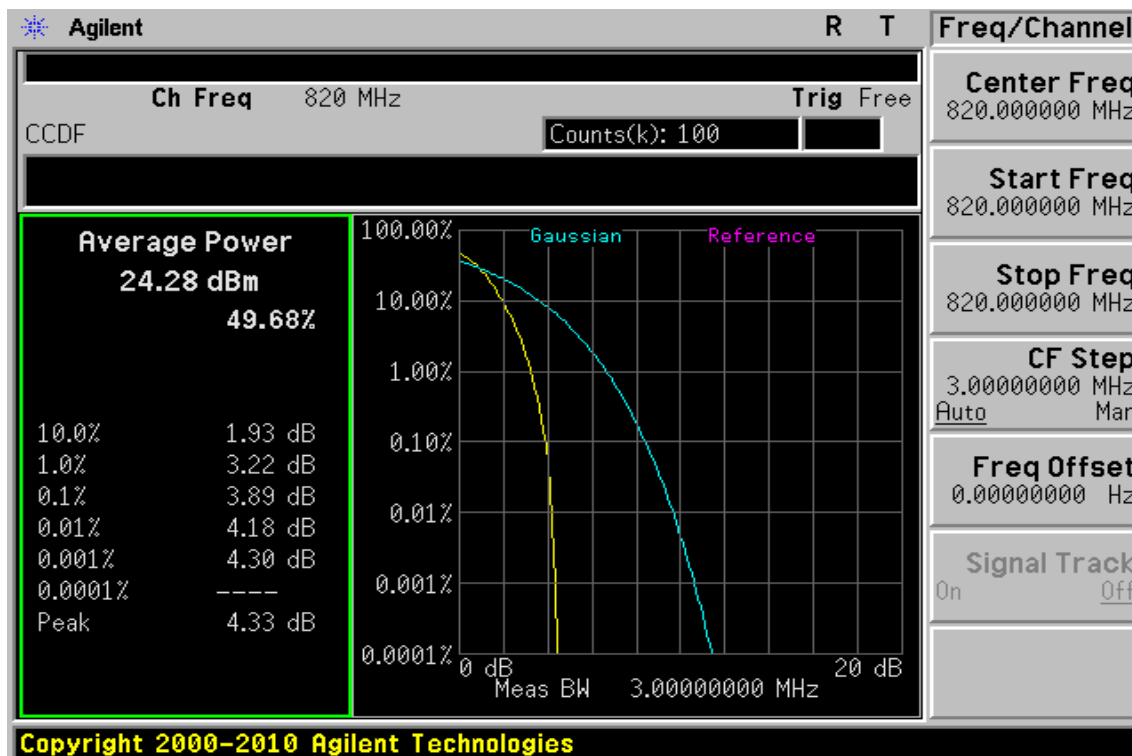
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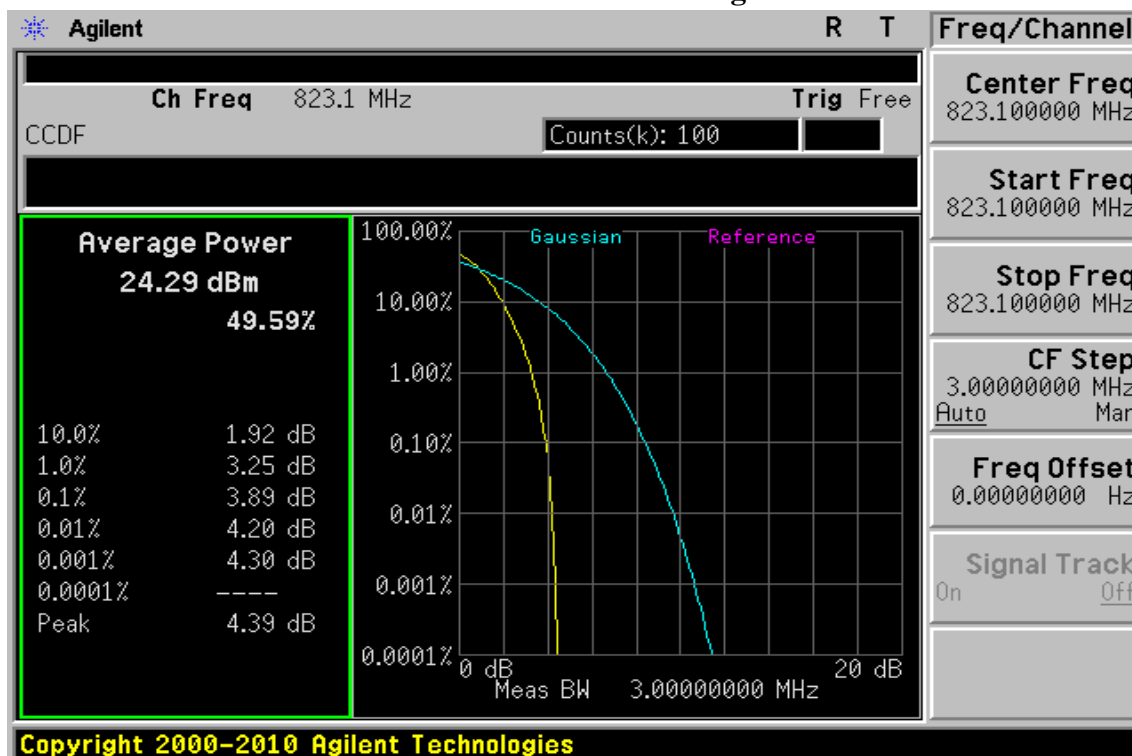
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EVDO BC10 Channel Mid



EVDO BC10 Channel High



~ End of Report ~

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