

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: PDA Phone
Brand Name: Sony
Marketing Name: ST26a
Model No.: PM-0170-BV
Model Difference: N/A
FCC ID: PY7PM-0170
IC: 4170B-PM0170
Report No.: EH/2012/60035
Issue Date: Aug. 23, 2012
FCC Rule Part: 2, 22H & 24E
IC Rule Part: RSS 132, Issue 2 and RSS 133, Issue 5
Prepared for: Sony Mobile Communications AB
Nya Vattentornet 22188 Lund/SWEDEN
SGS Taiwan Ltd.
Prepared by: Electronics & Communication Laboratory
No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803

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VERIFICATION OF COMPLIANCE

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

Product Name: PDA Phone

Brand Name: Sony

Marketing Name: ST26a

Model No.: PM-0170-BV

Model Difference: N/A

FCC ID: PY7PM-0170

IC: 4170B-PM0170

File Number: EH/2012/60035

Date of test: Jun. 29, 2012 ~ Jul. 11, 2012

Date of EUT Received: Jun. 29, 2012

We hereby certify that:

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

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

Test By:

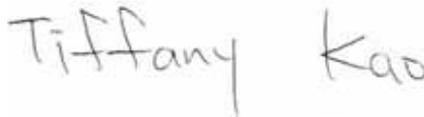


Date:

Aug. 23, 2012

Jimmy Liu / Engineer

Prepared By:

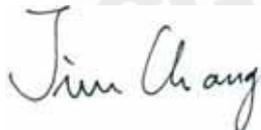


Date:

Aug. 23, 2012

Tiffany Kao / Clerk

Approved By:



Date:

Aug. 23, 2012

Jim Chang / Supervisor

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Version

| Version No. | Date | Description |
|-------------|---------------|------------------------------|
| 00 | Jul. 11, 2012 | Initial creation of document |
| 01 | Aug. 23, 2012 | Updated Hardware Version |

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1. GENERAL PRODUCT INFORMATION

General:

| | | |
|--------------------------|---|--|
| Product Name: | PDA Phone | |
| Brand Name: | Sony | |
| Marketing Name: | ST26a | |
| Model No.: | PM-0170-BV | |
| Model difference: | N/A | |
| Data Cable (USB): | Model No.: EC450, Supplier: K-one, Part No.: 1262-3995 | |
| Simple Hands-free (SHF): | Model No.: MH410C, Supplier: Foster Electric Type No.: CCA-0004017 | |
| Car Charger: | Model No.: AN400, Supplier: Salcomp, Type No.: CAA-0003013 | |
| Hardware Version: | A | |
| Software Version: | 11.0.A.1.0 | |
| Power Supply: | 3.7Vdc form Li-Ion battery or 5Vdc form adapter. | |
| | Battery: | 1. Model No.: BA900, Supplier: SONY Type No.: AB-0500 |
| | Adapter : | 1. Model No.: EP800, Supplier: Salcomp Type No.: CAA-0002016-US |

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GSM and WCDMA:

| Cellular Phone Standards Frequency Range and Power: | Operating Frequency | | Rated Power |
|---|---|-------------------------|-------------|
| | GSM/GPRS 850, Class 12 | 824.2 MHz– 848.8 MHz | 33 dBm |
| | EDGE 850, Class 12 | 824.2 MHz– 848.8 MHz | 33 dBm |
| | GSM/GPRS 1900, Class 12 | 1850.2 MHz – 1909.8 MHz | 30 dBm |
| | EDGE 1900, Class 12 | 1850.2 MHz – 1909.8 MHz | 30 dBm |
| | WCDMA / HSDPA / HSUPA Band II | 1852.4 MHz – 1907.6 MHz | 27 dBm |
| | WCDMA / HSDPA / HSUPA Band V | 826.4 MHz– 846.6 MHz | 27 dBm |
| Type of Emission | GSM 850: 244KGXW, GSM 1900: 248KGXW GPRS 850: 253KGXW, GPRS 1900: 251KGXW EDGE 850: 246KG7W, EDGE 1900: 252KG7W WCDMA Band II: 4M19F9W, WCDMA Band V: 4M17F9W, HSDPA Band II: 4M17F9W, HSDPA Band V: 4M18F9W, HSUPA Band II: 4M20F9W, HSUPA Band V: 4M19F9W | | |
| IMEI: | 004402145611061 | | |

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

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Final Amplifier Voltage and Current Information:

| Test Mode | DC voltage (V) | DC current (mA) |
|-----------|----------------|-----------------|
| GSM 850 | 3.7 Vdc | 360 |
| GSM 1900 | 3.7 Vdc | 390 |
| GPRS 850 | 3.7 Vdc | 350 |
| GPRS 1900 | 3.7 Vdc | 330 |
| EDGE 850 | 3.7 Vdc | 330 |
| EDGE 1900 | 3.7 Vdc | 350 |
| WCDMA B2 | 3.7 Vdc | 360 |
| WCDMA B5 | 3.7 Vdc | 370 |
| HSDPA B2 | 3.7 Vdc | 340 |
| HSDPA B5 | 3.7 Vdc | 330 |
| HSUPA B2 | 3.7 Vdc | 350 |
| HSUPA B5 | 3.7 Vdc | 320 |

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

This submittal(s) (test report) is intended for **FCC ID: PY7PM-0170** filing to comply with Section Part 22 subpart H, Part 24 subpart E of the FCC CFR 47 Rules and IC: **4170B-PM-0170** filing to comply with Issue 2 of RSS-132, Issue 5 of RSS-133.

1.2. Test Methodology

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

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

1.3. Test Facility

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

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

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

1.4. Special Accessories

Not available for this EUT intended for grant.

1.5. Equipment Modifications

Not available for this EUT intended for grant.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

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

2.2. EUT Exercise

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

2.3. Test Procedure

2.3.1 Conducted Measurement at Antenna Port:

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

2.3.2 Radiated Emissions (ERP/EIRP):

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

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2.4. Measurement Equipment Used:

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

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| 966 Chamber | | | | | |
|------------------------------|-----------------------|--------------------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 04/15/2011 | 04/14/2013 |
| EXA Spectrum Analyzer | Agilent | N9010A | MY50420195 | 02/15/2011 | 02/14/2013 |
| Spectrum Analyzer | R&S | FSV-30 | 101398 | 10/18/2011 | 10/17/2013 |
| Bilog Antenna | SCHWAZBECK | VULB9168 | 378 | 01/10/2012 | 01/09/2014 |
| Bilog Antenna | SCHWAZBECK | VULB9160 | 3158 | 11/24/2011 | 11/23/2013 |
| Dipole Antenna | SCHWAZBECK | VHAP | 908/909 | 07/17/2010 | 07/16/2012 |
| Dipole Antenna | SCHWAZBECK | UHAP | 891/892 | 07/17/2010 | 07/16/2012 |
| Horn antenna | ETS.LINDGREN | 3117 | 123995 | 05/19/2011 | 05/18/2013 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 184 | 01/17/2012 | 01/17/2014 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 185 | 07/11/2011 | 07/10/2013 |
| RF amplifier | Miteq | AMF-6F-2600 400-40-8P | 971576 | 12/28/2011 | 12/27/2012 |
| Signal Generator | R&S | SMR40 | 100210 | 02/02/2012 | 02/01/2014 |
| Signal Generator | Agilent | E4438C | MY45093613 | 07/15/2011 | 07/14/2013 |
| Pre-Amplifier | Agilent | 8447D | 1937A02834 | 01/04/2012 | 01/03/2013 |
| Pre-Amplifier | EMC Instruments Corp. | EMC0126530 | 980038 | 01/04/2012 | 01/03/2013 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 004 | 02/28/2012 | 02/27/2013 |
| Radio Communication Analyzer | R & S | CMU200 | 102189 | 08/12/2010 | 08/11/2012 |
| WIDEB. RADIO COMIN. TESTER | R & S | CMW500 | 101582 | 07/12/2010 | 07/11/2012 |
| Turn Table | HD | DT420 | N/A | N.C.R | N.C.R |
| Antenna Tower | HD | MA240-N | 240/657 | N.C.R | N.C.R |
| Controller | HD | HD100 | N/A | N.C.R | N.C.R |
| Low Loss Cable | HUBER+SUHNER | 966_Tx | 10m | 01/04/2012 | 01/03/2013 |
| Low Loss Cable | HUBER+SUHNER | 966_Rx | 3m | 01/04/2012 | 01/03/2013 |
| Filter 800-1000 | Micro-Tronics | EWT | M2 | 05/25/2011 | 05/24/2013 |
| Filter 1800-2000 | Micro-Tronics | EWT | M2 | 05/25/2011 | 05/24/2013 |
| 1GHz High Pass Filter | Micro-Tronics | HPM50108 | 32 | 02/28/2012 | 02/27/2013 |
| 2GHz High Pass Filter | Micro-Tronics | HPM50110 | 36 | 02/28/2012 | 02/27/2013 |
| 3m Site NSA | SGS | 966 chamber | N/A | 07/15/2011 | 07/14/2012 |

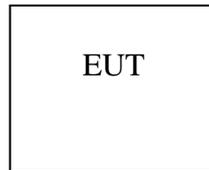
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2.5. Configuration of Tested System

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



Remote Side

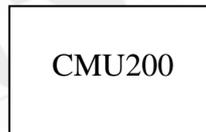


Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|--------------------------------------|-----------|----------------|------------|------------|-------------|
| 1. | Universal Radio Communication Tester | R&S | CMU200 | 102189 | shielded | Un-shielded |

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3. SUMMARY OF TEST RESULTS

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

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Max ERP/EIRP measurement result:

| | dBm | | W |
|----------------|-------|------|-------|
| | | | |
| GSM 850 Band | 25.51 | ERP | 0.356 |
| GSM 1900 Band | 31.37 | EIRP | 1.371 |
| GPRS 850 Band | 25.63 | ERP | 0.366 |
| GPRS 1900 Band | 30.56 | EIRP | 1.138 |
| EDGE 850 Band | 24.45 | ERP | 0.279 |
| EDGE 1900 Band | 28.82 | EIRP | 0.762 |
| WCDMA Band II | 25.65 | EIRP | 0.367 |
| WCDMA Band V | 21.93 | ERP | 0.156 |
| HSDPA Band II | 25.81 | EIRP | 0.381 |
| HSDPA Band V | 22.18 | ERP | 0.165 |
| HSUPA Band II | 26.45 | EIRP | 0.442 |
| HSUPA Band V | 23.32 | ERP | 0.215 |

4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for GSM/GPRS/EDGE and WCDMA/HSDPA/HSUPA Band II and V. The worst-case of H position for GPRS850, E1 position for GSM1900, E1 position for HSUPA Band II, E2 position for HSUPA Band V were reported.

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5. MEASUREMENT UNCERTAINTY FOR FIELD STRENGTH OF SPURIOUS RADIATION

| | |
|--|------------------------|
| 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 |

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6. RF POWER OUTPUT MEASUREMENT

6.1 Standard Applicable:

According to FCC §2.1046.

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

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

3GPP Power limitation for HSDPA and HSUPA

Maximum Output Powers for HSDPA

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

Maximum Output Powers for HSUPA

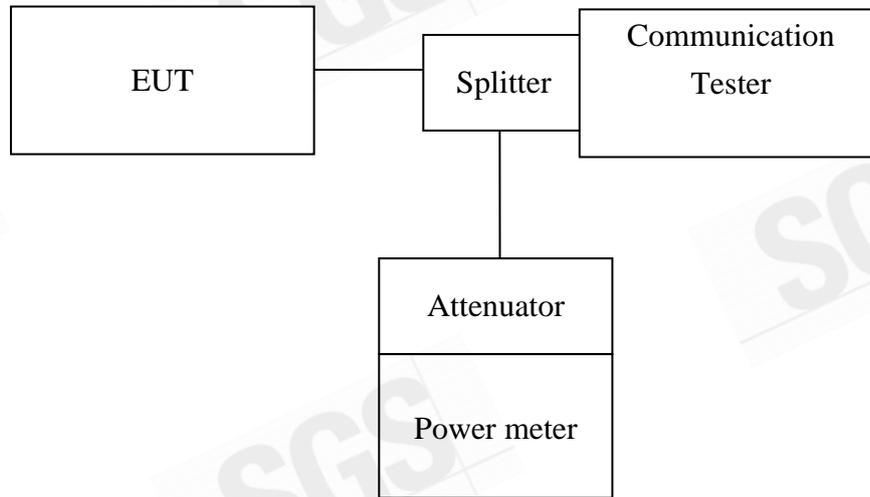
| Sub-test in table C.11.1.3 | Power Class 3 | | Power Class 4 | |
|-------------------------------|----------------|-------------|----------------|-------------|
| | Power (dBm) | Tol (dB) | Power (dBm) | Tol (dB) |
| 1 | +24 | +1.7/-6.7 | +21 | +2.7/-5.7 |
| 2 | +22 | +3.7/-5.2 | +19 | +4.7/-4.2 |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

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6.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

6.3 Measurement Procedure:

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

6.4 Measurement Equipment Used:

Refer to section 2.4 in this report

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6.5 Measurement Result:

6.5.1 RF Conducted Output Power

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

Result:

| EUT Mode | Frequency (MHz) | CH | Peak Power (dBm) | Average Burst Power (dBm) |
|----------|-----------------|-----|------------------|---------------------------|
| GSM 850 | 824.2 | 128 | 34.10 | 33.70 |
| | 836.6 | 190 | 33.90 | 33.60 |
| | 848.8 | 251 | 33.90 | 33.50 |

| EUT Mode | Frequency (MHz) | CH | Peak Power (dBm) | Average Burst Power (dBm) |
|----------|-----------------|-----|------------------|---------------------------|
| GSM 1900 | 1850.2 | 512 | 31.00 | 30.90 |
| | 1880.0 | 661 | 30.90 | 30.80 |
| | 1909.8 | 810 | 30.80 | 30.70 |

| EUT Mode | Frequency (MHz) | CH | Peak Power (4DN 1UP) class 8 (dBm) | Average Burst Power (4DN 1UP) Class 8 (dBm) | Peak Power (4DN 2UP) Class 10 (dBm) | Average Burst Power (4DN 2UP) Class 10 (dBm) |
|----------|-----------------|-----|------------------------------------|---|-------------------------------------|--|
| GPRS 850 | 824.2 | 128 | 34.10 | 33.70 | 29.20 | 29.10 |
| | 836.6 | 190 | 33.90 | 33.60 | 29.20 | 29.10 |
| | 848.8 | 251 | 33.90 | 33.50 | 29.30 | 29.20 |

| EUT Mode | Frequency (MHz) | CH | Peak Power (4DN 3UP) Class 11 (dBm) | Average Burst Power (4DN 3UP) Cass 11 (dBm) | Peak Power (4DN 4UP) Class 12 (dBm) | Average Burst Power (4DN 4UP) Class 12 (dBm) |
|----------|-----------------|-----|-------------------------------------|---|-------------------------------------|--|
| GPRS 850 | 824.2 | 128 | 28.30 | 28.10 | 28.40 | 28.30 |
| | 836.6 | 190 | 28.30 | 28.20 | 28.50 | 28.30 |
| | 848.8 | 251 | 28.40 | 28.30 | 28.50 | 28.40 |

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| EUT Mode | Frequency (MHz) | CH | Peak Power (4DN 1UP) class 8 (dBm) | Average Burst Power (4DN 1UP) Class 8 (dBm) | Peak Power (4DN 2UP) Class 10 (dBm) | Average Burst Power (4DN 2UP) Class 10 (dBm) |
|-----------|--------------------|-----|---|---|--|--|
| GPRS 1900 | 1850.2 | 512 | 31.00 | 30.90 | 27.40 | 27.20 |
| | 1880.0 | 661 | 30.90 | 30.80 | 27.30 | 27.20 |
| | 1909.8 | 810 | 30.80 | 30.70 | 27.20 | 27.10 |

| EUT Mode | Frequency (MHz) | CH | Peak Power (4DN 3UP) Class 11 (dBm) | Average Burst Power (4DN 3UP) Class 11 (dBm) | Peak Power (4DN 4UP) Class 12 (dBm) | Average Burst Power (4DN 4UP) Class 12 (dBm) |
|-----------|--------------------|-----|--|--|--|--|
| GPRS 1900 | 1850.2 | 512 | 26.50 | 26.40 | 25.20 | 25.00 |
| | 1880.0 | 661 | 26.40 | 26.30 | 25.10 | 25.00 |
| | 1909.8 | 810 | 26.30 | 26.20 | 25.00 | 24.90 |

| EUT Mode | Frequency (MHz) | CH | Peak Power (4DN 1UP) class 8 (dBm) | Average Burst Power (4DN 1UP) Class 8 (dBm) | Peak Power (4DN 2UP) Class 10 (dBm) | Average Burst Power (4DN 2UP) Class 10 (dBm) |
|----------|--------------------|-----|---|---|--|--|
| EDGE 850 | 824.2 | 128 | 30.00 | 26.80 | 29.00 | 25.80 |
| | 836.6 | 190 | 30.00 | 26.80 | 29.00 | 25.80 |
| | 848.8 | 251 | 30.10 | 26.90 | 29.20 | 25.90 |

| EUT Mode | Frequency (MHz) | CH | Peak Power (4DN 3UP) Class 11 (dBm) | Average Burst Power (4DN 3UP) Class 11 (dBm) | Peak Power (4DN 4UP) Class 12 (dBm) | Average Burst Power (4DN 4UP) Class 12 (dBm) |
|----------|--------------------|-----|--|--|--|--|
| EDGE 850 | 824.2 | 128 | 29.00 | 25.70 | 29.00 | 25.70 |
| | 836.6 | 190 | 29.00 | 25.70 | 29.00 | 25.70 |
| | 848.8 | 251 | 29.10 | 25.80 | 29.00 | 25.70 |

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| EUT Mode | Frequency (MHz) | CH | Peak Power (4DN 1UP) class 8 (dBm) | Average Burst Power (4DN 1UP) Class 8 (dBm) | Peak Power (4DN 2UP) Class 10 (dBm) | Average Burst Power (4DN 2UP) Class 10 (dBm) |
|-----------|--------------------|-----|---|---|--|--|
| EDGE 1900 | 1850.2 | 512 | 29.40 | 26.30 | 29.00 | 25.80 |
| | 1880.0 | 661 | 29.20 | 26.10 | 28.80 | 25.70 |
| | 1909.8 | 810 | 29.10 | 26.00 | 28.80 | 25.60 |

| EUT Mode | Frequency (MHz) | CH | Peak Power (4DN 3UP) Class 11 (dBm) | Average Burst Power (4DN 3UP) Class 11 (dBm) | Peak Power (4DN 4UP) Class 12 (dBm) | Average Burst Power (4DN 4UP) Class 12 (dBm) |
|-----------|--------------------|-----|--|--|--|--|
| EDGE 1900 | 1850.2 | 512 | 29.00 | 25.80 | 28.40 | 25.20 |
| | 1880.0 | 661 | 28.80 | 25.70 | 28.30 | 25.10 |
| | 1909.8 | 810 | 28.70 | 25.60 | 28.20 | 25.00 |

Cable loss offset Low Band: 0.5 dB

Cable loss offset High Band: 0.7 dB

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6.5.1.2 WCDMA mode

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

Results:

| EUT Mode | Frequency (MHz) | CH | Peak Power (dBm) | Average Power (dBm) |
|---------------|-----------------|------|------------------|---------------------|
| WCDMA Band II | 1852.4 | 9262 | 25.39 | 22.04 |
| | 1880.0 | 9400 | 25.59 | 22.09 |
| | 1907.6 | 9538 | 25.46 | 22.04 |

| EUT Mode | Frequency (MHz) | CH | Peak Power (dBm) | Average Power (dBm) |
|--------------|-----------------|------|------------------|---------------------|
| WCDMA Band V | 826.40 | 4132 | 27.11 | 23.85 |
| | 836.60 | 4183 | 26.74 | 23.81 |
| | 846.60 | 4233 | 27.24 | 23.91 |

| EUT Mode | Frequency (MHz) | CH | Peak Power (dBm) | Average Power (dBm) |
|---------------|-----------------|------|------------------|---------------------|
| HSDPA Band II | 1852.40 | 9262 | 25.47 | 21.82 |
| | 1880.00 | 9400 | 25.73 | 21.97 |
| | 1907.60 | 9538 | 25.72 | 21.97 |

| EUT Mode | Frequency (MHz) | CH | Peak Power (dBm) | Average Power (dBm) |
|--------------|-----------------|------|------------------|---------------------|
| HSDPA Band V | 826.40 | 4132 | 27.28 | 23.69 |
| | 836.60 | 4183 | 26.93 | 23.65 |
| | 846.60 | 4233 | 27.52 | 23.81 |

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| EUT Mode | Frequency (MHz) | CH | Peak Power (dBm) | Avg Power (dBm) |
|------------------|--------------------|------|---------------------|--------------------|
| HSUPA Band II | 1852.40 | 9262 | 25.52 | 21.82 |
| | 1880.00 | 9400 | 25.71 | 21.93 |
| | 1907.60 | 9538 | 25.71 | 21.88 |

| EUT Mode | Frequency (MHz) | CH | Peak Power (dBm) | Avg Power (dBm) |
|-----------------|--------------------|------|---------------------|--------------------|
| HSUPA Band V | 826.40 | 4132 | 27.41 | 23.69 |
| | 836.60 | 4183 | 26.82 | 23.67 |
| | 846.60 | 4233 | 27.62 | 23.91 |

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

Cable loss offset Low Band: 0.5 dB

Cable loss offset High Band: 0.7 dB

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6.5.1.3. HSDPA Release 6 mode

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

HSDPA SUB-TEST Setting

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

| Sub-test | β_c | β_a | β_a (SF) | β_c/β_a | 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 | RMS Power (dBm) Channel | | | Power Class 3 Limitation (dBm) | Comments |
|----------|----------|----------------------------|-------|-------|-----------------------------------|----------|
| | | 9262 | 9400 | 9538 | | |
| HSDPA B2 | 1 | 22.21 | 21.98 | 21.90 | 20.3dBm – 25.7dBm | Pass |
| | 2 | 21.92 | 21.95 | 21.89 | 20.3dBm – 25.7dBm | Pass |
| | 3 | 21.73 | 21.53 | 21.37 | 19.8dBm – 25.7dBm | Pass |
| | 4 | 21.80 | 21.54 | 21.49 | 19.8dBm – 25.7dBm | Pass |

| Mode | Sub-test | RMS Power (dBm) Channel | | | Power Class 3 Limitation (dBm) | Comments |
|----------|----------|----------------------------|-------|-------|-----------------------------------|----------|
| | | 4132 | 4172 | 4233 | | |
| HSDPA B5 | 1 | 23.64 | 23.67 | 24.03 | 20.3dBm – 25.7dBm | Pass |
| | 2 | 23.78 | 23.70 | 23.78 | 20.3dBm – 25.7dBm | Pass |
| | 3 | 23.18 | 23.19 | 23.54 | 19.8dBm – 25.7dBm | Pass |
| | 4 | 23.23 | 23.23 | 23.60 | 19.8dBm – 25.7dBm | Pass |

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

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

HSPA SUB-TEST Setting

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

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

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

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Results:

| Mode | Sub-test | Avg. Power (dBm) Channel | | | Power Class 3 Limita- tion (dBm) | Comments |
|-----------|----------|-----------------------------|-------|-------|-------------------------------------|----------|
| | | 9262 | 9400 | 9538 | | |
| HSUPA(B2) | 1 | 21.96 | 22.07 | 21.98 | 18.8dBm – 25.7dBm | Pass |
| | 2 | 20.01 | 20.14 | 20.02 | 16.8dBm – 25.7dBm | Pass |
| | 3 | 21.02 | 21.09 | 21.06 | 17.8dBm – 25.7dBm | Pass |
| | 4 | 20.14 | 20.19 | 20.06 | 16.8dBm – 25.7dBm | Pass |
| | 5 | 21.85 | 21.93 | 21.89 | 18.8dBm – 25.7dBm | Pass |

| Mode | Sub-test | Avg. Power (dBm) Channel | | | Power Class 3 Limita- tion (dBm) | Comments |
|-----------|----------|-----------------------------|-------|-------|-------------------------------------|----------|
| | | 4132 | 4183 | 4233 | | |
| HSUPA(B5) | 1 | 23.81 | 23.74 | 23.83 | 18.8dBm – 25.7dBm | Pass |
| | 2 | 21.87 | 21.82 | 21.87 | 16.8dBm – 25.7dBm | Pass |
| | 3 | 22.85 | 22.80 | 22.91 | 17.8dBm – 25.7dBm | Pass |
| | 4 | 21.92 | 21.88 | 21.95 | 16.8dBm – 25.7dBm | Pass |
| | 5 | 23.67 | 23.57 | 23.72 | 18.8dBm – 25.7dBm | Pass |

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6.5.2. Minimum Communications Power Measurement

PCS 1900 band

| PCL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--------------------|------|------|------|----|------|------|------|------|------|
| Output power (dBm) | 30.6 | 28.1 | 26.1 | 24 | 22.1 | 20.1 | 18.1 | 16.1 | 14.1 |
| | | | | | | | | | |
| PCL | 9 | 10 | 11 | 12 | 13 | 14 | 15 | | |
| Output power (dBm) | 12.1 | 10.1 | 8.1 | 6 | 4.1 | 2.1 | 0.1 | | |

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

WCDMA/HSDPA band II / V

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

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7. ERP, EIRP MEASUREMENT

7.1. Standard Applicable:

According to FCC §2.1046

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

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

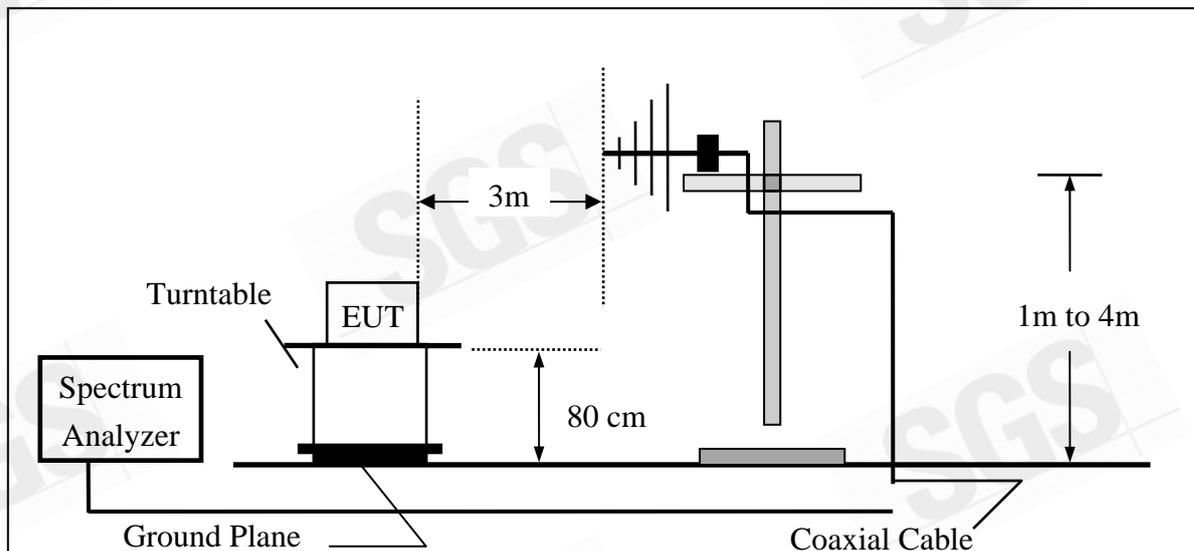
According to IC RSS-133 §6.4

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

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

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

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

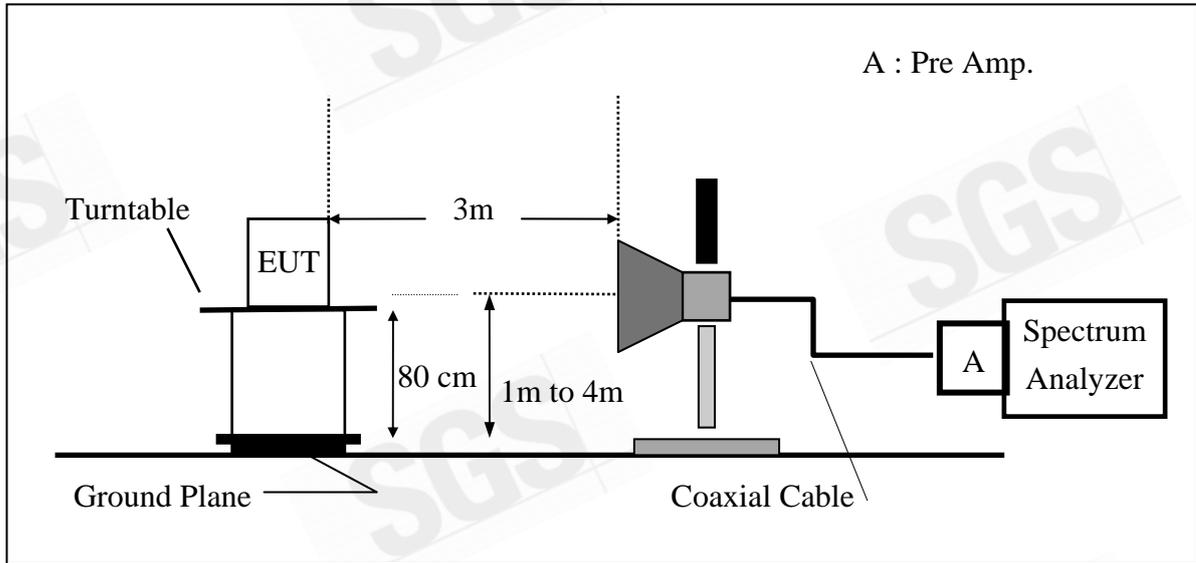


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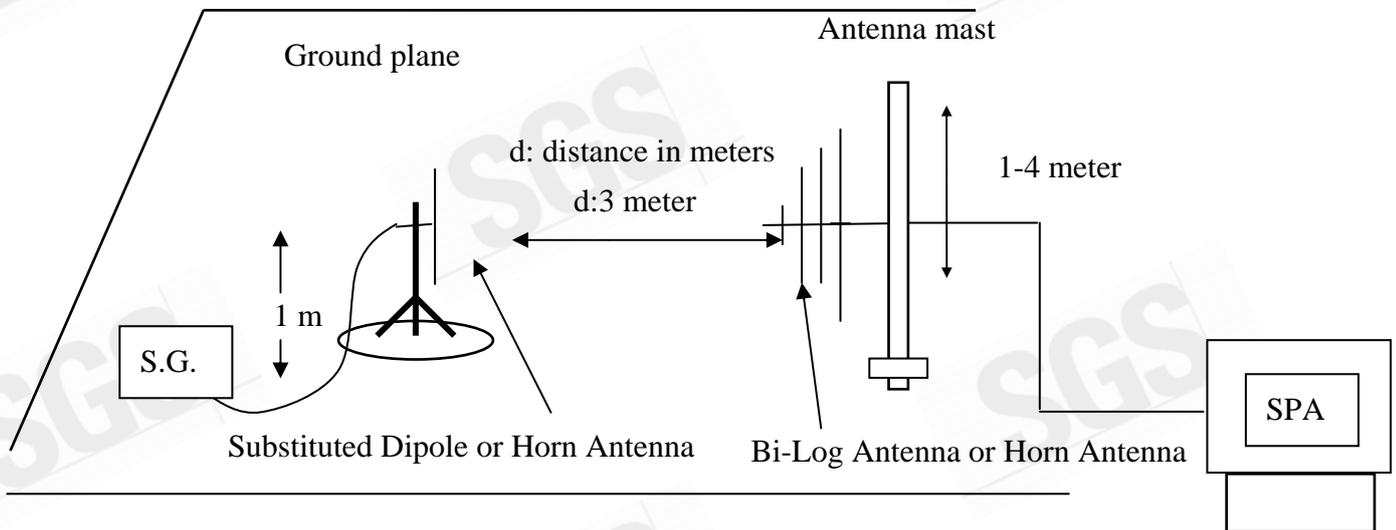
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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7.3. Measurement Procedure:

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

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

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

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

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

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

7.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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7.5. Measurement Result:

| EUT | | | | Measurement | | | | | | |
|----------------|------|-----------------------|--------|--------------|-------------|--------------|------------|--------------|-------|-------|
| Operation Band | Pol. | Fundamental Frequency | CH | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP | Limit | |
| | | MHz | | V/H | dBm | dBd | dB | dBm | dBm | |
| GSM 850 | H | 824.20 | 128 | V | 24.61 | 3.96 | -4.22 | 24.36 | 38.45 | |
| | | | | H | 23.30 | 4.00 | -4.24 | 23.04 | 38.45 | |
| | | 836.60 | 190 | V | 24.64 | 4.00 | -4.24 | 24.40 | 38.45 | |
| | | | | H | 22.28 | 4.03 | -4.33 | 22.04 | 38.45 | |
| | | 848.80 | 251 | V | 25.81 | 4.03 | -4.33 | 25.51 | 38.45 | |
| | | | | H | 22.40 | 3.96 | -4.22 | 22.10 | 38.45 | |
| | E1 | 824.20 | 128 | V | 22.25 | 3.96 | -4.22 | 21.99 | 38.45 | |
| | | | | H | 23.68 | 4.00 | -4.24 | 23.42 | 38.45 | |
| | | 836.60 | 190 | V | 22.92 | 4.00 | -4.24 | 22.68 | 38.45 | |
| | | | | H | 23.50 | 4.03 | -4.33 | 23.26 | 38.45 | |
| | | 848.80 | 251 | V | 22.62 | 4.03 | -4.33 | 22.32 | 38.45 | |
| | | | | H | 24.40 | 3.96 | -4.22 | 24.10 | 38.45 | |
| | | E2 | 824.20 | 128 | V | 23.25 | 3.96 | -4.22 | 22.99 | 38.45 |
| | | | | | H | 25.19 | 4.00 | -4.24 | 24.93 | 38.45 |
| | | | 836.60 | 190 | V | 23.47 | 4.00 | -4.24 | 23.23 | 38.45 |
| | | | | | H | 25.17 | 4.03 | -4.33 | 24.93 | 38.45 |
| | | | 848.80 | 251 | V | 23.55 | 4.03 | -4.33 | 23.25 | 38.45 |
| | | | | | H | 25.42 | 3.96 | -4.22 | 25.12 | 38.45 |

Remark :

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

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| EUT | | | | Measurement | | | | | |
|----------------|------|-----------------------|-----|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Pol. | Fundamental Frequency | CH | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP | Limit |
| | | MHz | | V/H | dBm | dBi | dB | dBm | dBm |
| GSM 1900 | H | 1850.20 | 512 | V | 30.06 | 4.17 | -5.49 | 28.75 | 33.00 |
| | | | | H | 26.84 | 4.51 | -5.49 | 25.86 | 33.00 |
| | | 1880.00 | 661 | V | 28.70 | 4.13 | -5.56 | 27.27 | 33.00 |
| | | | | H | 26.53 | 4.44 | -5.56 | 25.41 | 33.00 |
| | | 1909.80 | 810 | V | 27.78 | 4.10 | -5.56 | 26.32 | 33.00 |
| | | | | H | 25.05 | 4.36 | -5.56 | 23.86 | 33.00 |
| | E1 | 1850.20 | 512 | V | 32.68 | 4.17 | -5.49 | 31.37 | 33.00 |
| | | | | H | 26.50 | 4.51 | -5.49 | 25.52 | 33.00 |
| | | 1880.00 | 661 | V | 30.46 | 4.13 | -5.56 | 29.03 | 33.00 |
| | | | | H | 25.50 | 4.44 | -5.56 | 24.37 | 33.00 |
| | | 1909.80 | 810 | V | 30.68 | 4.10 | -5.56 | 29.22 | 33.00 |
| | | | | H | 25.24 | 4.36 | -5.56 | 24.05 | 33.00 |
| | E2 | 1850.20 | 512 | V | 29.41 | 4.17 | -5.49 | 28.10 | 33.00 |
| | | | | H | 30.18 | 4.51 | -5.49 | 29.20 | 33.00 |
| | | 1880.00 | 661 | V | 28.51 | 4.13 | -5.56 | 27.08 | 33.00 |
| | | | | H | 28.85 | 4.44 | -5.56 | 27.72 | 33.00 |
| | | 1909.80 | 810 | V | 28.21 | 4.10 | -5.56 | 26.75 | 33.00 |
| | | | | H | 27.90 | 4.36 | -5.56 | 26.71 | 33.00 |

Remark :

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

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| EUT | | | | Measurement | | | | | |
|----------------|------|-----------------------|-----|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Pol. | Fundamental Frequency | CH | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP | Limit |
| | | MHz | | V/H | dBm | dBd | dB | dBm | dBm |
| GPRS 850 | H | 824.20 | 128 | V | 25.62 | 3.96 | -4.22 | 25.36 | 38.45 |
| | | | | H | 24.83 | 4.00 | -4.24 | 24.59 | 38.45 |
| | | 836.60 | 190 | V | 19.62 | 4.00 | -4.24 | 19.38 | 38.45 |
| | | | | H | 25.93 | 4.03 | -4.33 | 25.63 | 38.45 |
| | | 848.80 | 251 | V | 20.88 | 4.03 | -4.33 | 20.58 | 38.45 |
| | | | | H | 22.30 | 3.96 | -4.22 | 22.04 | 38.45 |
| | E1 | 824.20 | 128 | V | 23.54 | 3.96 | -4.22 | 23.28 | 38.45 |
| | | | | H | 23.54 | 4.00 | -4.24 | 23.30 | 38.45 |
| | | 836.60 | 190 | V | 23.52 | 4.00 | -4.24 | 23.28 | 38.45 |
| | | | | H | 24.70 | 4.03 | -4.33 | 24.40 | 38.45 |
| | | 848.80 | 251 | V | 24.59 | 4.03 | -4.33 | 24.29 | 38.45 |
| | | | | H | 22.94 | 3.96 | -4.22 | 22.68 | 38.45 |
| | E2 | 824.20 | 128 | V | 25.18 | 3.96 | -4.22 | 24.92 | 38.45 |
| | | | | H | 23.27 | 4.00 | -4.24 | 23.03 | 38.45 |
| | | 836.60 | 190 | V | 25.14 | 4.00 | -4.24 | 24.90 | 38.45 |
| | | | | H | 23.39 | 4.03 | -4.33 | 23.09 | 38.45 |
| | | 848.80 | 251 | V | 25.45 | 4.03 | -4.33 | 25.15 | 38.45 |
| | | | | H | 24.46 | 3.96 | -4.22 | 24.20 | 38.45 |

Remark :

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

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| EUT | | | | Measurement | | | | | |
|----------------|------|-----------------------|-----|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Pol. | Fundamental Frequency | CH | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP | Limit |
| | | MHz | | V/H | dBm | dBi | dB | dBm | dBm |
| GPRS 1900 | H | 1850.20 | 512 | V | 29.15 | 4.17 | -5.49 | 27.84 | 33.00 |
| | | | | H | 29.99 | 4.51 | -5.49 | 29.01 | 33.00 |
| | | 1880.00 | 661 | V | 27.70 | 4.13 | -5.56 | 26.28 | 33.00 |
| | | | | H | 26.32 | 4.44 | -5.56 | 25.20 | 33.00 |
| | | 1909.80 | 810 | V | 27.11 | 4.09 | -5.56 | 25.65 | 33.00 |
| | | | | H | 27.84 | 4.36 | -5.56 | 26.65 | 33.00 |
| | E1 | 1850.20 | 512 | V | 31.78 | 4.17 | -5.49 | 30.47 | 33.00 |
| | | | | H | 25.93 | 4.51 | -5.49 | 24.96 | 33.00 |
| | | 1880.00 | 661 | V | 31.99 | 4.13 | -5.56 | 30.56 | 33.00 |
| | | | | H | 24.31 | 4.44 | -5.56 | 23.18 | 33.00 |
| | | 1909.80 | 810 | V | 30.71 | 4.10 | -5.56 | 29.25 | 33.00 |
| | | | | H | 23.62 | 4.36 | -5.56 | 22.43 | 33.00 |
| | E2 | 1850.20 | 512 | V | 29.04 | 4.17 | -5.49 | 27.72 | 33.00 |
| | | | | H | 30.11 | 4.51 | -5.49 | 29.14 | 33.00 |
| | | 1880.00 | 661 | V | 28.46 | 4.13 | -5.56 | 27.03 | 33.00 |
| | | | | H | 28.84 | 4.44 | -5.56 | 27.72 | 33.00 |
| | | 1909.80 | 810 | V | 28.11 | 4.09 | -5.56 | 26.65 | 33.00 |
| | | | | H | 27.87 | 4.36 | -5.56 | 26.68 | 33.00 |

Remark :

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

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| EUT | | | | Measurement | | | | | |
|----------------|------|-----------------------|-----|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Pol. | Fundamental Frequency | CH | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP | Limit |
| | | MHz | | V/H | dBm | dBd | dB | dBm | dBm |
| EDGE 850 | H | 824.20 | 128 | V | 15.69 | 3.96 | -4.22 | 15.43 | 38.45 |
| | | | | H | 24.53 | 4.00 | -4.24 | 24.29 | 38.45 |
| | | 836.60 | 190 | V | 16.49 | 4.00 | -4.24 | 16.25 | 38.45 |
| | | | | H | 22.22 | 4.03 | -4.33 | 21.92 | 38.45 |
| | | 848.80 | 251 | V | 16.36 | 4.03 | -4.33 | 16.06 | 38.45 |
| | | | | H | 18.26 | 3.96 | -4.22 | 18.00 | 38.45 |
| | E1 | 824.20 | 128 | V | 20.61 | 3.96 | -4.22 | 20.35 | 38.45 |
| | | | | H | 19.41 | 4.00 | -4.24 | 19.17 | 38.45 |
| | | 836.60 | 190 | V | 21.58 | 4.00 | -4.24 | 21.34 | 38.45 |
| | | | | H | 20.44 | 4.03 | -4.33 | 20.14 | 38.45 |
| | | 848.80 | 251 | V | 22.73 | 4.03 | -4.33 | 22.43 | 38.45 |
| | | | | H | 19.43 | 3.96 | -4.22 | 19.17 | 38.45 |
| | E2 | 824.20 | 128 | V | 23.68 | 3.96 | -4.22 | 23.42 | 38.45 |
| | | | | H | 19.94 | 4.00 | -4.24 | 19.70 | 38.45 |
| | | 836.60 | 190 | V | 23.52 | 4.00 | -4.24 | 23.28 | 38.45 |
| | | | | H | 20.17 | 4.03 | -4.33 | 19.87 | 38.45 |
| | | 848.80 | 251 | V | 24.54 | 4.03 | -4.33 | 24.24 | 38.45 |
| | | | | H | 24.75 | 4.03 | -4.33 | 24.45 | 38.45 |

Remark :

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

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| EUT | | | | Measurement | | | | | |
|----------------|------|-----------------------|-----|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Pol. | Fundamental Frequency | CH | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP | Limit |
| | | MHz | | V/H | dBm | dBi | dB | dBm | dBm |
| EDGE 1900 | H | 1850.20 | 512 | V | 27.60 | 4.17 | -5.49 | 26.29 | 33.00 |
| | | | | H | 28.41 | 4.51 | -5.49 | 27.43 | 33.00 |
| | | 1880.00 | 661 | V | 26.44 | 4.13 | -5.56 | 25.01 | 33.00 |
| | | | | H | 27.44 | 4.44 | -5.56 | 26.32 | 33.00 |
| | | 1909.80 | 810 | V | 24.94 | 4.09 | -5.56 | 23.48 | 33.00 |
| | | | | H | 25.53 | 4.36 | -5.56 | 24.34 | 33.00 |
| | E1 | 1850.20 | 512 | V | 30.13 | 4.17 | -5.49 | 28.82 | 33.00 |
| | | | | H | 24.70 | 4.51 | -5.49 | 23.72 | 33.00 |
| | | 1880.00 | 661 | V | 29.57 | 4.13 | -5.56 | 28.14 | 33.00 |
| | | | | H | 23.18 | 4.44 | -5.56 | 22.05 | 33.00 |
| | | 1909.80 | 810 | V | 28.78 | 4.09 | -5.56 | 27.32 | 33.00 |
| | | | | H | 22.13 | 4.36 | -5.56 | 20.93 | 33.00 |
| | E2 | 1850.20 | 512 | V | 26.36 | 4.17 | -5.49 | 25.04 | 33.00 |
| | | | | H | 28.74 | 4.51 | -5.49 | 27.76 | 33.00 |
| | | 1880.00 | 661 | V | 23.67 | 4.13 | -5.56 | 22.24 | 33.00 |
| | | | | H | 27.36 | 4.44 | -5.56 | 26.23 | 33.00 |
| | | 1909.80 | 810 | V | 24.14 | 4.09 | -5.56 | 22.68 | 33.00 |
| | | | | H | 26.13 | 4.36 | -5.56 | 24.93 | 33.00 |

Remark :

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

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| EUT | | | | Measurement | | | | | |
|----------------|------|-----------------------|------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Pol. | Fundamental Frequency | CH | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP | Limit |
| | | MHz | | V/H | dBm | dBi | dB | dBm | dBm |
| WCDMA Band II | H | 1852.40 | 9262 | V | 23.43 | 4.17 | -5.49 | 22.12 | 33.00 |
| | | | | H | 21.41 | 4.51 | -5.49 | 20.43 | 33.00 |
| | | 1880.00 | 9400 | V | 22.35 | 4.13 | -5.56 | 20.92 | 33.00 |
| | | | | H | 22.01 | 4.44 | -5.56 | 20.89 | 33.00 |
| | | 1907.60 | 9538 | V | 22.67 | 4.10 | -5.62 | 21.14 | 33.00 |
| | | | | H | 22.67 | 4.37 | -5.62 | 21.42 | 33.00 |
| | E1 | 1852.40 | 9262 | V | 26.97 | 4.17 | -5.49 | 25.65 | 33.00 |
| | | | | H | 20.13 | 4.51 | -5.49 | 19.15 | 33.00 |
| | | 1880.00 | 9400 | V | 24.85 | 4.13 | -5.56 | 23.42 | 33.00 |
| | | | | H | 19.42 | 4.44 | -5.56 | 18.30 | 33.00 |
| | | 1907.60 | 9538 | V | 23.13 | 4.10 | -5.62 | 21.60 | 33.00 |
| | | | | H | 17.92 | 4.37 | -5.62 | 16.67 | 33.00 |
| | E2 | 1852.40 | 9262 | V | 22.83 | 4.17 | -5.49 | 21.51 | 33.00 |
| | | | | H | 24.30 | 4.51 | -5.49 | 23.32 | 33.00 |
| | | 1880.00 | 9400 | V | 22.13 | 4.13 | -5.56 | 20.70 | 33.00 |
| | | | | H | 23.82 | 4.44 | -5.56 | 22.69 | 33.00 |
| | | 1907.60 | 9538 | V | 22.36 | 4.10 | -5.62 | 20.83 | 33.00 |
| | | | | H | 23.23 | 4.37 | -5.62 | 21.98 | 33.00 |

Remark :

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

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| EUT | | | | Measurement | | | | | |
|----------------|------|-----------------------|------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Pol. | Fundamental Frequency | CH | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP | Limit |
| | | MHz | | V/H | dBm | dBd | dB | dBm | dBm |
| WCDMA Band V | H | 826.40 | 4132 | V | 20.27 | 3.97 | -4.22 | 20.02 | 38.45 |
| | | | | H | 12.24 | 3.97 | -4.22 | 11.99 | 38.45 |
| | | 836.60 | 4183 | V | 18.31 | 4.00 | -4.24 | 18.07 | 38.45 |
| | | | | H | 12.01 | 4.00 | -4.24 | 11.77 | 38.45 |
| | | 846.60 | 4233 | V | 18.09 | 4.02 | -4.24 | 17.87 | 38.45 |
| | | | | H | 12.23 | 4.02 | -4.24 | 12.02 | 38.45 |
| | E1 | 826.40 | 4132 | V | 17.37 | 3.97 | -4.22 | 17.11 | 38.45 |
| | | | | H | 18.99 | 3.97 | -4.22 | 18.73 | 38.45 |
| | | 836.60 | 4183 | V | 16.02 | 4.00 | -4.24 | 15.78 | 38.45 |
| | | | | H | 18.01 | 4.00 | -4.24 | 17.77 | 38.45 |
| | | 846.60 | 4233 | V | 17.44 | 4.02 | -4.24 | 17.22 | 38.45 |
| | | | | H | 19.06 | 4.02 | -4.24 | 18.84 | 38.45 |
| | E2 | 826.40 | 4132 | V | 16.58 | 3.97 | -4.22 | 16.33 | 38.45 |
| | | | | H | 22.19 | 3.97 | -4.22 | 21.93 | 38.45 |
| | | 836.60 | 4183 | V | 15.39 | 4.00 | -4.24 | 15.15 | 38.45 |
| | | | | H | 21.67 | 4.00 | -4.24 | 21.43 | 38.45 |
| | | 846.60 | 4233 | V | 15.18 | 4.02 | -4.24 | 14.97 | 38.45 |
| | | | | H | 21.66 | 4.02 | -4.24 | 21.45 | 38.45 |

Remark :

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

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| EUT | | | | Measurement | | | | | |
|----------------|------|-----------------------|------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Pol. | Fundamental Frequency | CH | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP | Limit |
| | | MHz | | V/H | dBm | dBi | dB | dBm | dBm |
| HSDPA Band II | H | 1852.40 | 9262 | V | 24.46 | 4.17 | -5.49 | 23.14 | 33.00 |
| | | | | H | 20.62 | 4.51 | -5.49 | 19.64 | 33.00 |
| | | 1880.00 | 9400 | V | 23.69 | 4.14 | -5.56 | 22.26 | 33.00 |
| | | | | H | 21.40 | 4.44 | -5.56 | 20.27 | 33.00 |
| | | 1907.60 | 9538 | V | 23.72 | 4.10 | -5.62 | 22.19 | 33.00 |
| | | | | H | 22.31 | 4.37 | -5.56 | 21.12 | 33.00 |
| | E1 | 1852.40 | 9262 | V | 27.13 | 4.17 | -5.49 | 25.81 | 33.00 |
| | | | | H | 20.82 | 4.51 | -5.49 | 19.83 | 33.00 |
| | | 1880.00 | 9400 | V | 25.72 | 4.14 | -5.56 | 24.30 | 33.00 |
| | | | | H | 20.31 | 4.44 | -5.56 | 19.19 | 33.00 |
| | | 1907.60 | 9538 | V | 26.74 | 4.10 | -5.62 | 25.22 | 33.00 |
| | | | | H | 19.11 | 4.37 | -5.62 | 17.86 | 33.00 |
| | E2 | 1852.40 | 9262 | V | 21.52 | 4.17 | -5.49 | 20.20 | 33.00 |
| | | | | H | 24.61 | 4.51 | -5.49 | 23.63 | 33.00 |
| | | 1880.00 | 9400 | V | 22.86 | 4.13 | -5.56 | 21.44 | 33.00 |
| | | | | H | 24.34 | 4.44 | -5.56 | 23.22 | 33.00 |
| | | 1907.60 | 9538 | V | 24.27 | 4.10 | -5.62 | 22.74 | 33.00 |
| | | | | H | 23.96 | 4.37 | -5.62 | 22.70 | 33.00 |

Remark :

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

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| EUT | | | | Measurement | | | | | |
|----------------|------|-----------------------|------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Pol. | Fundamental Frequency | CH | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP | Limit |
| | | MHz | | V/H | dBm | dBd | dB | dBm | dBm |
| HSDPA Band V | H | 826.40 | 4132 | V | 20.97 | 3.97 | -4.22 | 20.72 | 38.45 |
| | | | | H | 12.16 | 3.97 | -4.22 | 11.91 | 38.45 |
| | | 836.60 | 4183 | V | 20.99 | 3.99 | -4.24 | 20.75 | 38.45 |
| | | | | H | 12.27 | 4.00 | -4.24 | 12.03 | 38.45 |
| | | 846.60 | 4233 | V | 21.00 | 4.02 | -4.24 | 20.78 | 38.45 |
| | | | | H | 12.99 | 4.02 | -4.24 | 12.77 | 38.45 |
| | E1 | 826.40 | 4132 | V | 17.22 | 3.97 | -4.22 | 16.97 | 38.45 |
| | | | | H | 19.79 | 3.97 | -4.22 | 19.54 | 38.45 |
| | | 836.60 | 4183 | V | 17.86 | 4.00 | -4.24 | 17.62 | 38.45 |
| | | | | H | 18.54 | 4.00 | -4.24 | 18.30 | 38.45 |
| | | 846.60 | 4233 | V | 17.94 | 4.02 | -4.24 | 17.73 | 38.45 |
| | | | | H | 19.63 | 4.02 | -4.24 | 19.41 | 38.45 |
| | E2 | 826.40 | 4132 | V | 16.90 | 3.97 | -4.22 | 16.65 | 38.45 |
| | | | | H | 22.44 | 3.97 | -4.22 | 22.18 | 38.45 |
| | | 836.60 | 4183 | V | 16.08 | 4.00 | -4.24 | 15.84 | 38.45 |
| | | | | H | 22.35 | 4.00 | -4.24 | 22.11 | 38.45 |
| | | 846.60 | 4233 | V | 16.08 | 4.02 | -4.24 | 15.86 | 38.45 |
| | | | | H | 21.94 | 4.02 | -4.24 | 21.72 | 38.45 |

Remark :

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

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| EUT | | | | Measurement | | | | | |
|----------------|------|-----------------------|------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Pol. | Fundamental Frequency | CH | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP | Limit |
| | | MHz | | V/H | dBm | dBi | dB | dBm | dBm |
| HSUPA Band II | H | 1852.4 | 9262 | V | 23.81 | 4.17 | -5.49 | 22.50 | 33.00 |
| | | | | H | 20.65 | 4.51 | -5.49 | 19.67 | 33.00 |
| | | 1880.0 | 9400 | V | 23.57 | 4.14 | -5.56 | 22.14 | 33.00 |
| | | | | H | 21.49 | 4.44 | -5.56 | 20.36 | 33.00 |
| | | 1907.6 | 9538 | V | 23.54 | 4.10 | -5.62 | 22.02 | 33.00 |
| | | | | H | 22.05 | 4.37 | -5.62 | 20.80 | 33.00 |
| | E1 | 1852.4 | 9262 | V | 27.62 | 4.17 | -5.49 | 26.30 | 33.00 |
| | | | | H | 19.25 | 4.51 | -5.49 | 18.27 | 33.00 |
| | | 1880.0 | 9400 | V | 27.88 | 4.14 | -5.56 | 26.45 | 33.00 |
| | | | | H | 19.93 | 4.44 | -5.56 | 18.80 | 33.00 |
| | | 1907.6 | 9538 | V | 24.84 | 4.10 | -5.62 | 23.32 | 33.00 |
| | | | | H | 19.27 | 4.37 | -5.62 | 18.01 | 33.00 |
| | E2 | 1852.4 | 9262 | V | 23.27 | 4.17 | -5.49 | 21.95 | 33.00 |
| | | | | H | 24.78 | 4.51 | -5.49 | 23.79 | 33.00 |
| | | 1880.0 | 9400 | V | 22.83 | 4.14 | -5.56 | 21.41 | 33.00 |
| | | | | H | 24.31 | 4.44 | -5.56 | 23.19 | 33.00 |
| | | 1907.6 | 9538 | V | 22.93 | 4.10 | -5.62 | 21.40 | 33.00 |
| | | | | H | 23.99 | 4.37 | -5.62 | 22.74 | 33.00 |

Remark :

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

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| EUT | | | | Measurement | | | | | |
|----------------|------|-----------------------|------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Pol. | Fundamental Frequency | CH | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP | Limit |
| | | MHz | | V/H | dBm | dBd | dB | dBm | dBm |
| HSUPA Band V | H | 826.4 | 4132 | V | 20.96 | 3.97 | -4.22 | 20.71 | 38.45 |
| | | | | H | 12.22 | 3.97 | -4.22 | 11.97 | 38.45 |
| | | 836.6 | 4183 | V | 20.93 | 3.99 | -4.24 | 20.69 | 38.45 |
| | | | | H | 12.37 | 4.00 | -4.24 | 12.13 | 38.45 |
| | | 846.6 | 4233 | V | 20.94 | 4.02 | -4.24 | 20.73 | 38.45 |
| | | | | H | 12.91 | 4.02 | -4.24 | 12.70 | 38.45 |
| | E1 | 826.4 | 4132 | V | 17.27 | 3.97 | -4.22 | 17.01 | 38.45 |
| | | | | H | 19.67 | 3.97 | -4.22 | 19.41 | 38.45 |
| | | 836.6 | 4183 | V | 17.75 | 4.00 | -4.24 | 17.50 | 38.45 |
| | | | | H | 18.59 | 4.00 | -4.24 | 18.35 | 38.45 |
| | | 846.6 | 4233 | V | 17.94 | 4.02 | -4.24 | 17.73 | 38.45 |
| | | | | H | 19.79 | 4.02 | -4.24 | 19.57 | 38.45 |
| | E2 | 826.40 | 4132 | V | 14.95 | 3.97 | -4.22 | 14.70 | 38.45 |
| | | | | H | 23.57 | 3.97 | -4.22 | 23.32 | 38.45 |
| | | 836.60 | 4183 | V | 13.60 | 4.00 | -4.24 | 13.36 | 38.45 |
| | | | | H | 22.69 | 4.00 | -4.24 | 22.45 | 38.45 |
| | | 846.60 | 4233 | V | 13.64 | 4.02 | -4.24 | 13.42 | 38.45 |
| | | | | H | 22.84 | 4.02 | -4.24 | 22.62 | 38.45 |

Remark :

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

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8. 99% OCCUPIED BANDWIDTH MEASUREMENT

8.1. Standard Applicable:

According to §FCC 2.1049.

According to IC RSS-Gen Issue 3 §4.6.1

According to IC RSS-133 §2.3

8.2. Test Set-up:

Refer to section 6.2 in this report

8.3. Measurement Procedure:

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

8.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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8.5. Measurement Result:

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (KHz) |
|----------|-----------------|-----|---------------------|
| GSM 850 | 824.20 | 128 | 242.1895 |
| | 836.60 | 190 | 243.4462 |
| | 848.80 | 251 | 243.5934 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (KHz) |
|----------|-----------------|-----|---------------------|
| GSM 1900 | 1850.20 | 512 | 241.9287 |
| | 1880.00 | 661 | 246.5636 |
| | 1909.80 | 810 | 247.8322 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (KHz) |
|----------|-----------------|-----|---------------------|
| GPRS 850 | 824.20 | 128 | 253.0609 |
| | 836.60 | 190 | 239.5957 |
| | 848.80 | 251 | 244.6517 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (KHz) |
|-----------|-----------------|-----|---------------------|
| GPRS 1900 | 1850.20 | 512 | 250.6363 |
| | 1880.00 | 661 | 242.2121 |
| | 1909.80 | 810 | 245.1023 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (KHz) |
|----------|-----------------|-----|---------------------|
| EDGE 850 | 824.20 | 128 | 243.3232 |
| | 836.60 | 190 | 246.2027 |
| | 848.80 | 251 | 241.9216 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (KHz) |
|-----------|-----------------|-----|---------------------|
| EDGE 1900 | 1850.20 | 512 | 252.0555 |
| | 1880.00 | 661 | 247.7519 |
| | 1909.80 | 810 | 242.9945 |

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| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|---------------|-----------------|------|---------------------|
| WCDMA Band II | 1852.40 | 9262 | 4.1766 |
| | 1880.00 | 9400 | 4.1550 |
| | 1907.60 | 9538 | 4.1913 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|--------------|-----------------|------|---------------------|
| WCDMA Band V | 826.40 | 4132 | 4.1579 |
| | 836.60 | 4183 | 4.1663 |
| | 846.60 | 4233 | 4.1520 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|---------------|-----------------|------|---------------------|
| HSDPA Band II | 1852.40 | 9262 | 4.1723 |
| | 1880.00 | 9400 | 4.1703 |
| | 1907.60 | 9538 | 4.1593 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|--------------|-----------------|------|---------------------|
| HSDPA Band V | 826.40 | 4132 | 4.1797 |
| | 836.60 | 4183 | 4.1650 |
| | 846.60 | 4233 | 4.1696 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|----------|-----------------|------|---------------------|
| HSUPA II | 1852.4 | 9262 | 4.1767 |
| | 1880.0 | 9400 | 4.1889 |
| | 1907.6 | 9538 | 4.1950 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|----------|-----------------|------|---------------------|
| HSUPA V | 826.40 | 4132 | 4.1884 |
| | 836.60 | 4183 | 4.1759 |
| | 846.60 | 4233 | 4.1532 |

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Figure 8-1: GSM 850 Channel Low

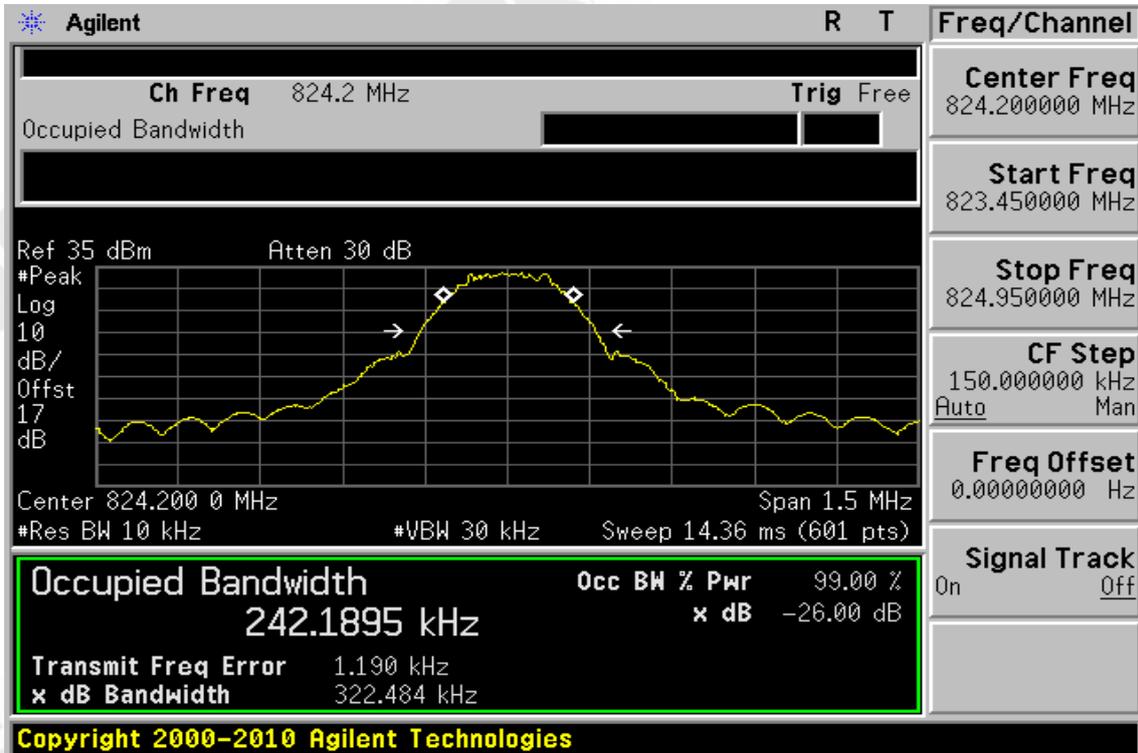
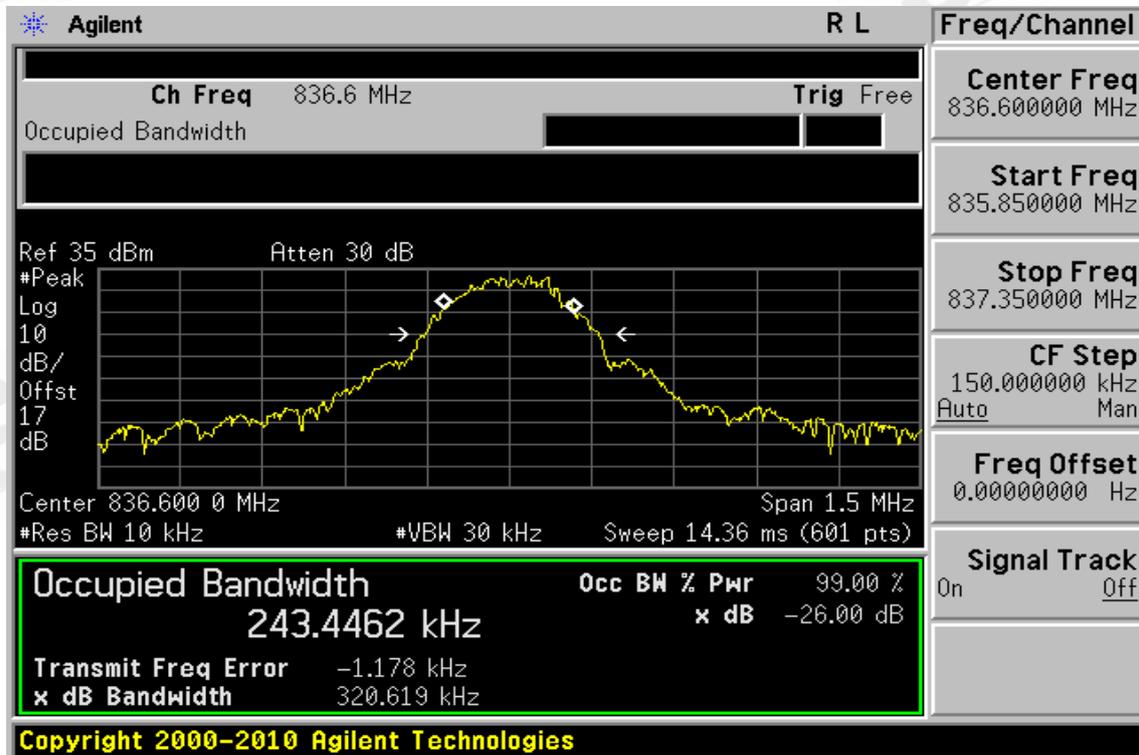


Figure 8-2: GSM 850 Channel Mid



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Figure 8-3: GSM 850 Channel High

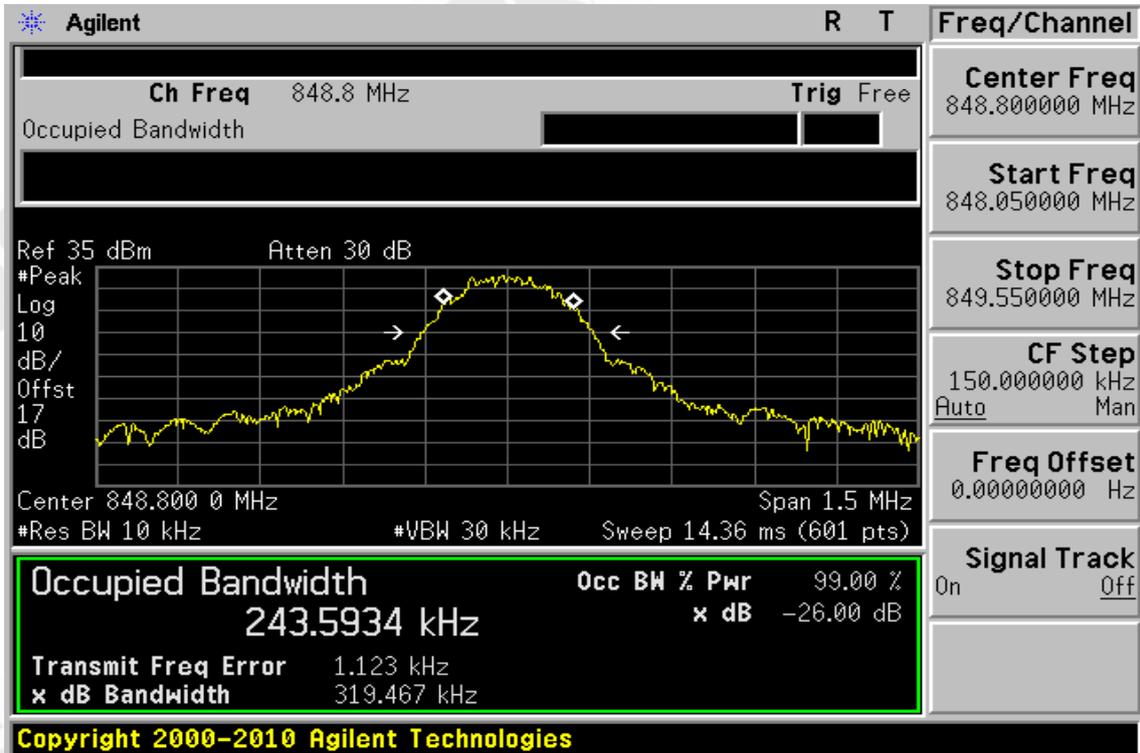
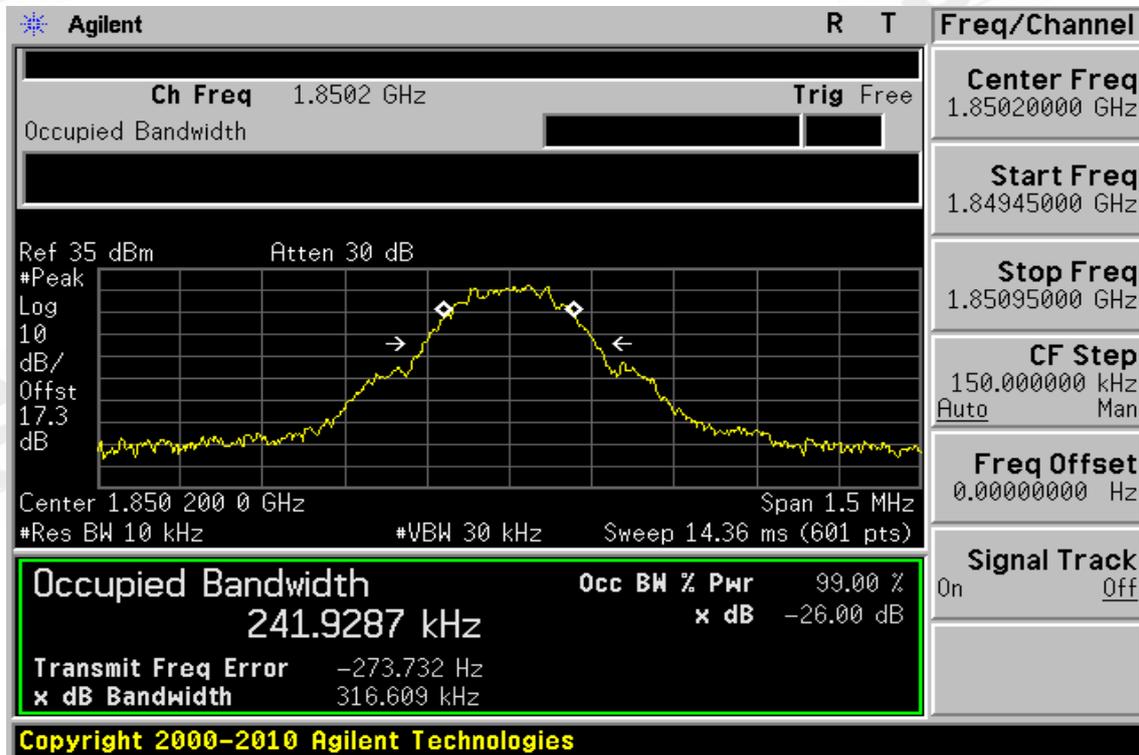


Figure 8-4: GSM 1900 Channel Low



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Figure 8-7: GPRS 850 Channel Low

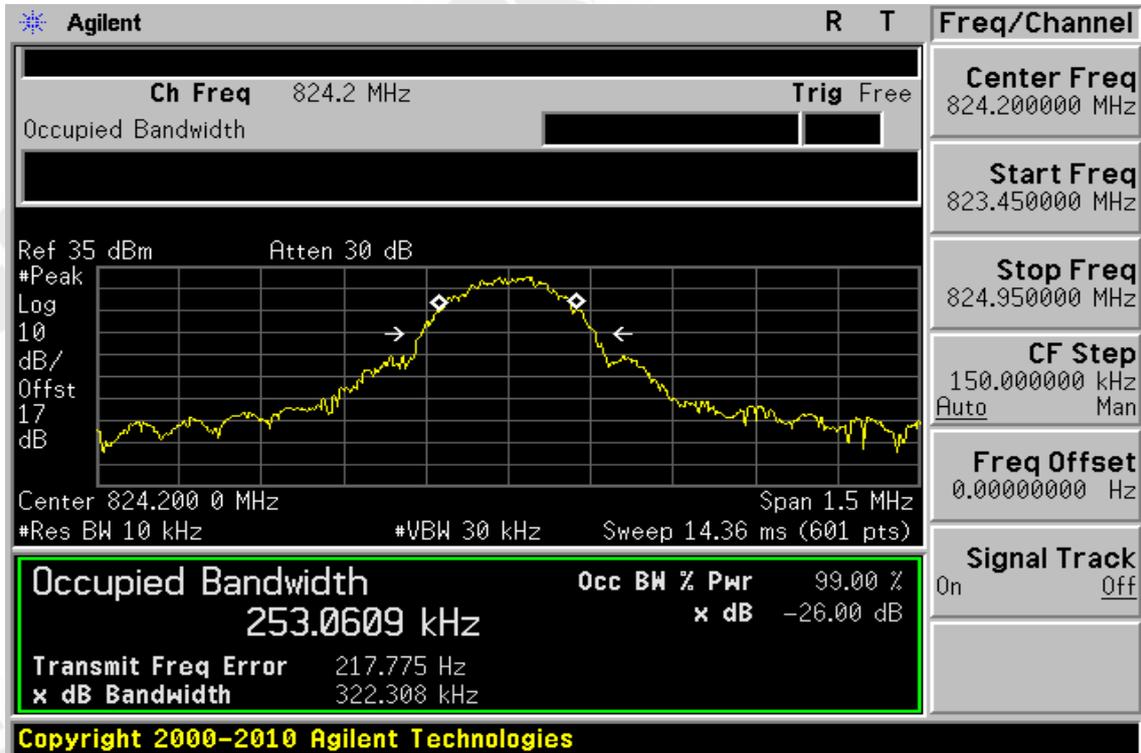
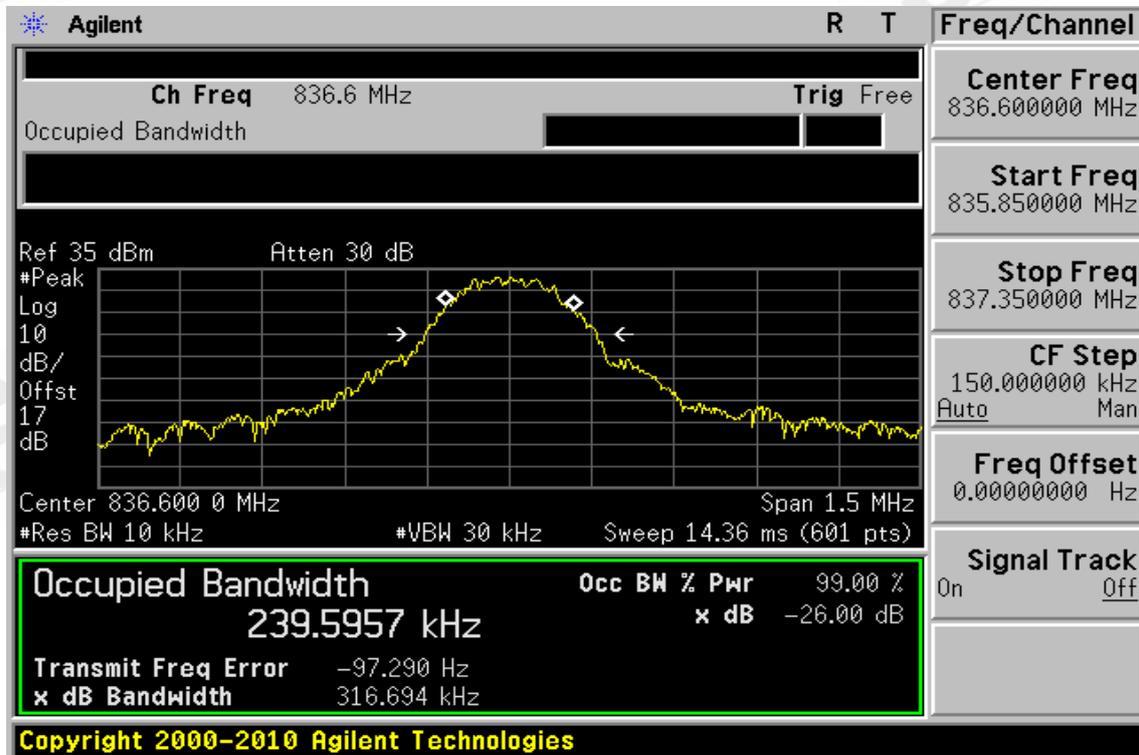


Figure 8-8: GPRS 850 Channel Mid



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Figure 8-9: GPRS 850 Channel High

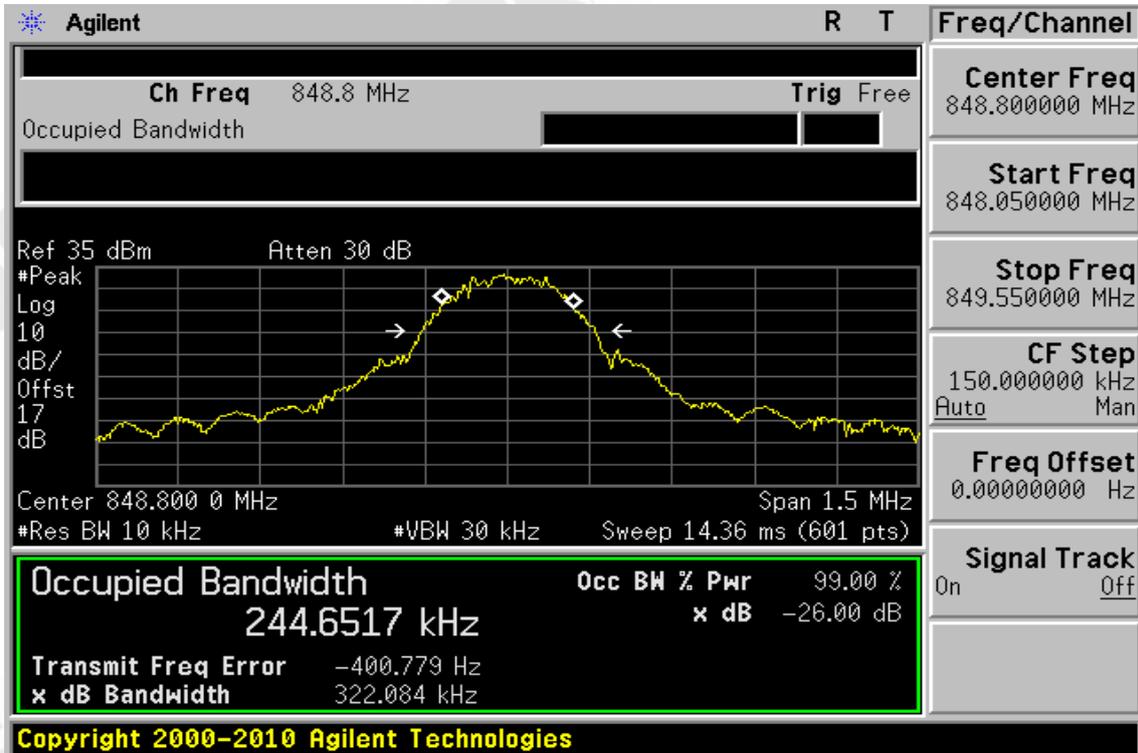
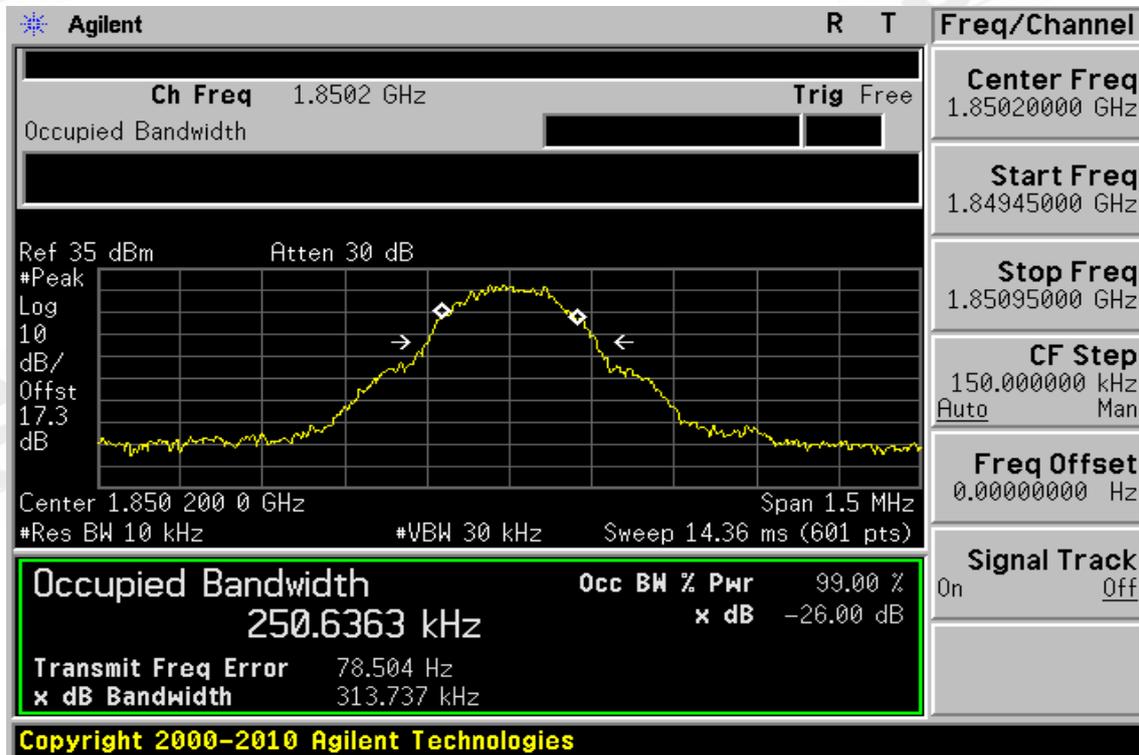


Figure 8-10: GPRS 1900 Channel Low



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Figure 8-11 GPRS 1900 Channel Mid

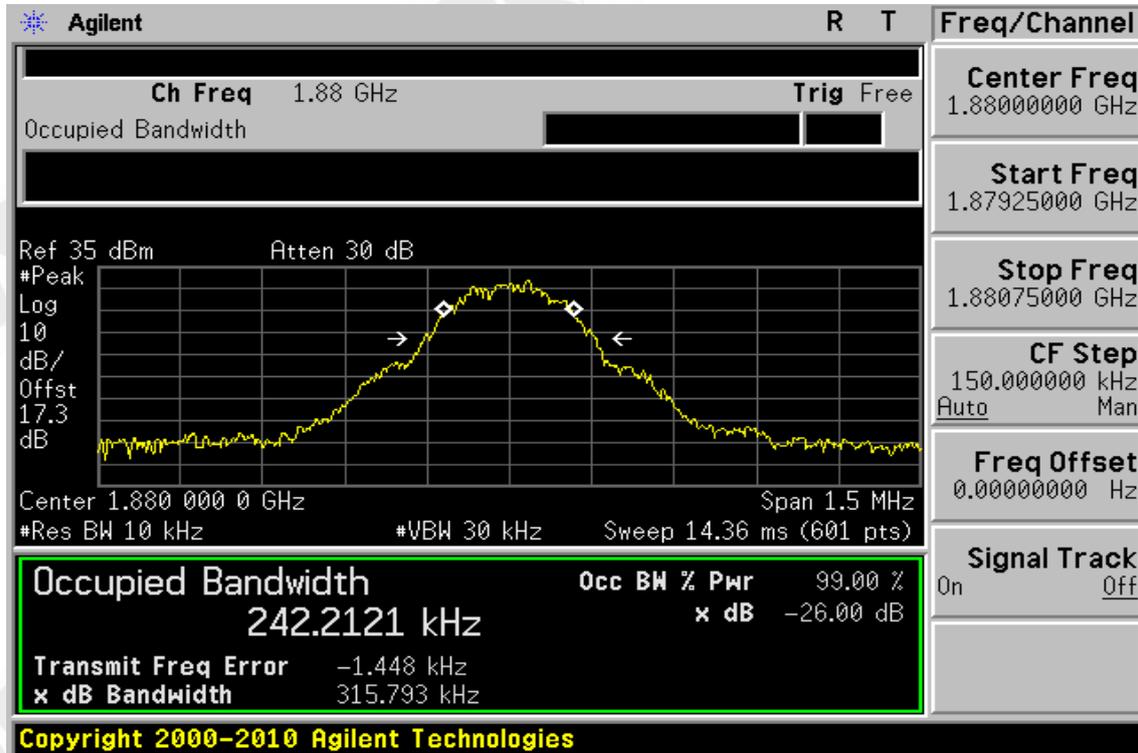
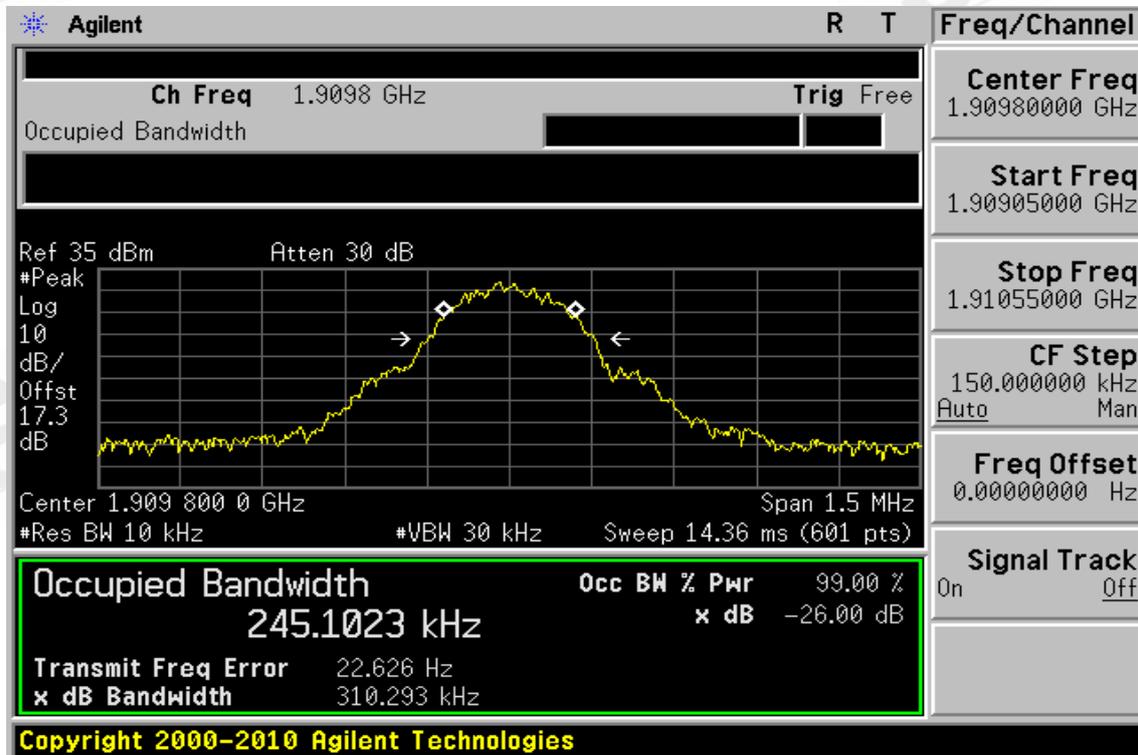


Figure 8-12: GPRS 1900 Channel High



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Figure 8-15: EDGE 850 Channel High

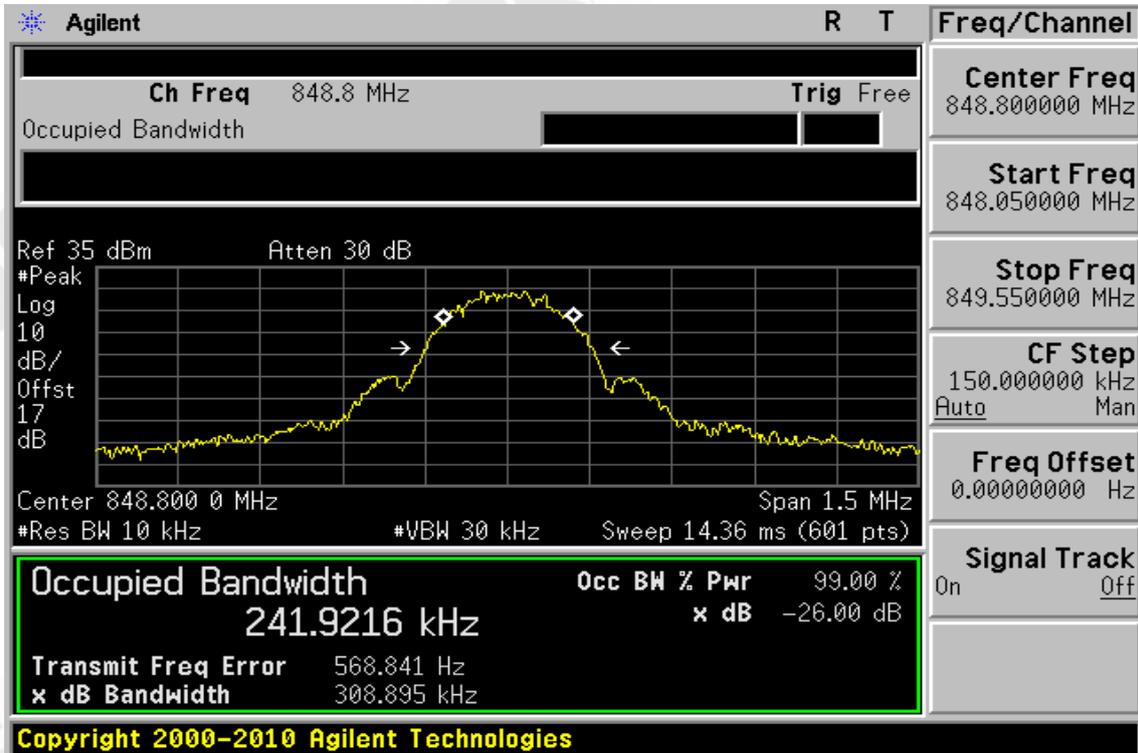
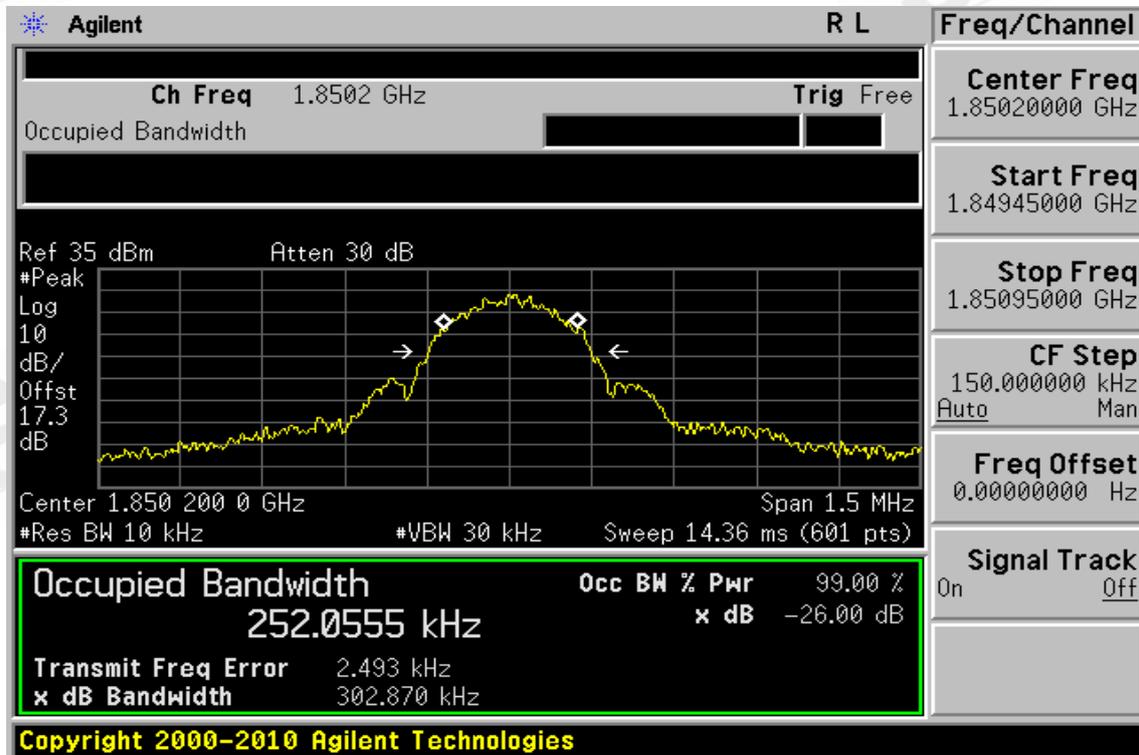


Figure 8-16: EDGE 1900 Channel Low



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Figure 8-17 EDGE 1900 Channel Mid

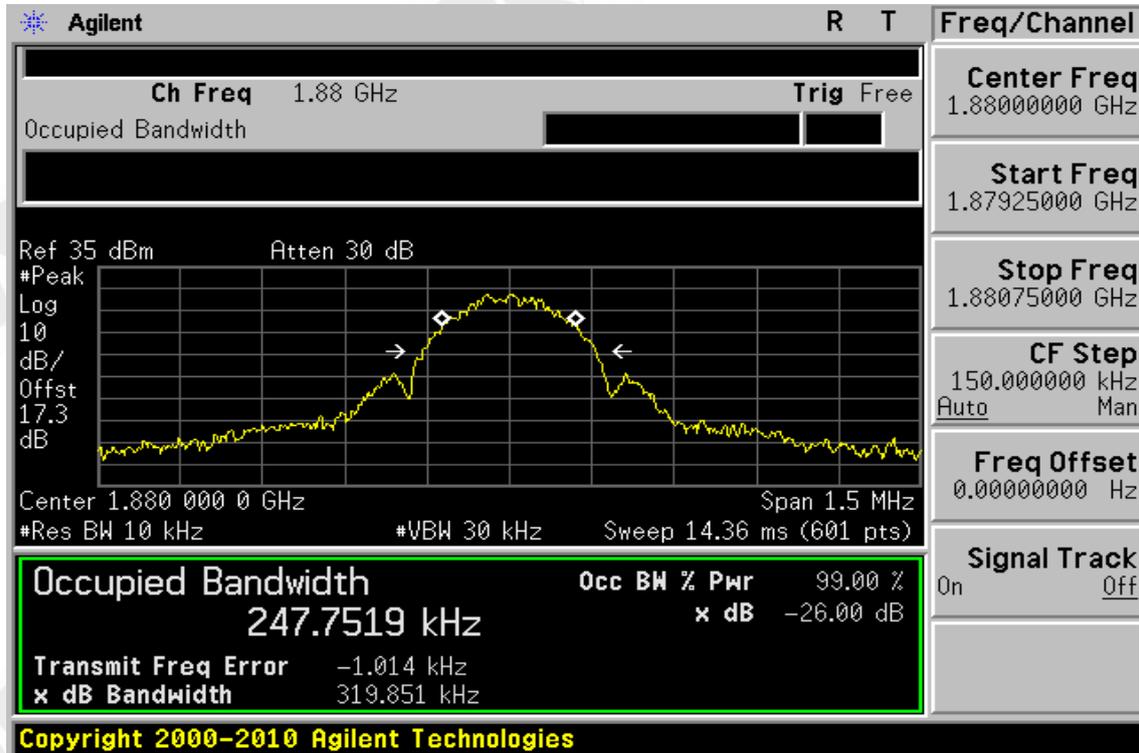
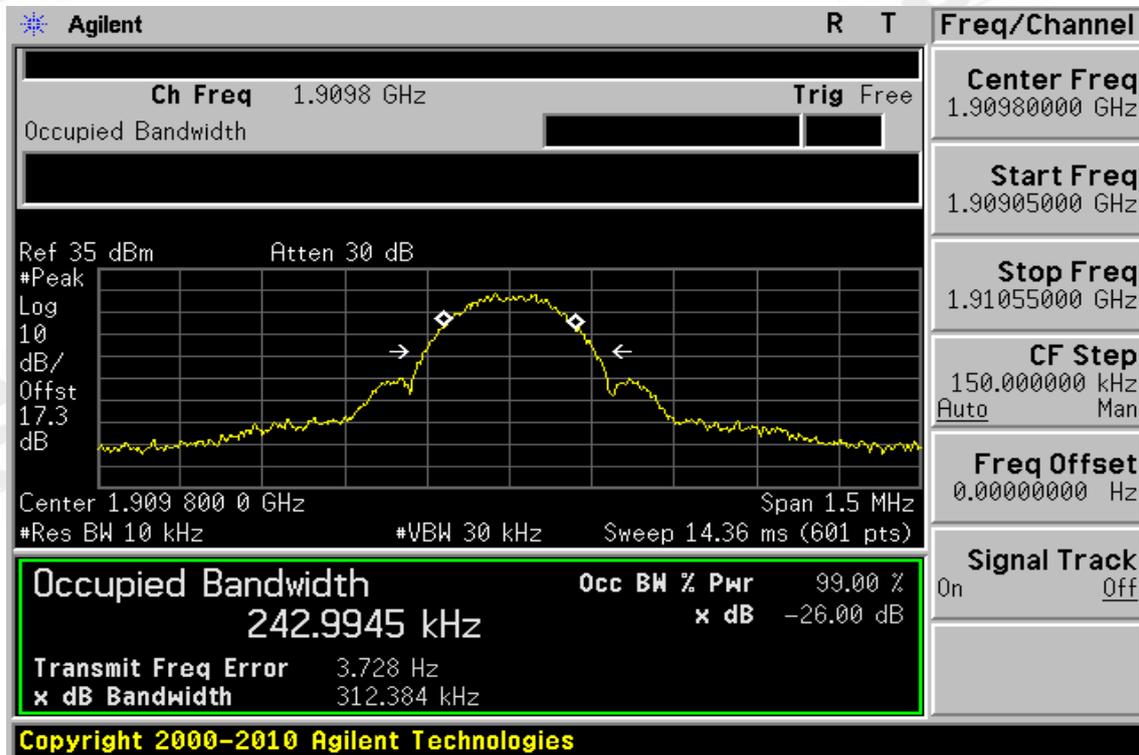


Figure 8-18: EDGE 1900 Channel High



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Figure 8-19: WCDMA Band II Channel Low

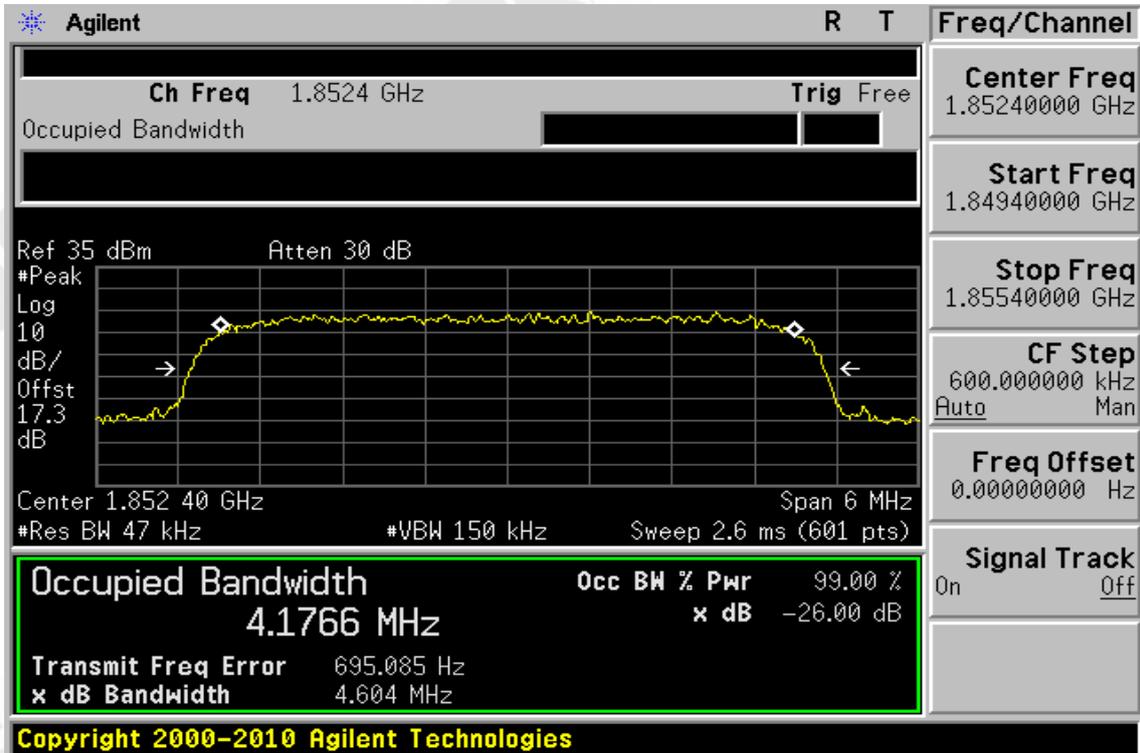
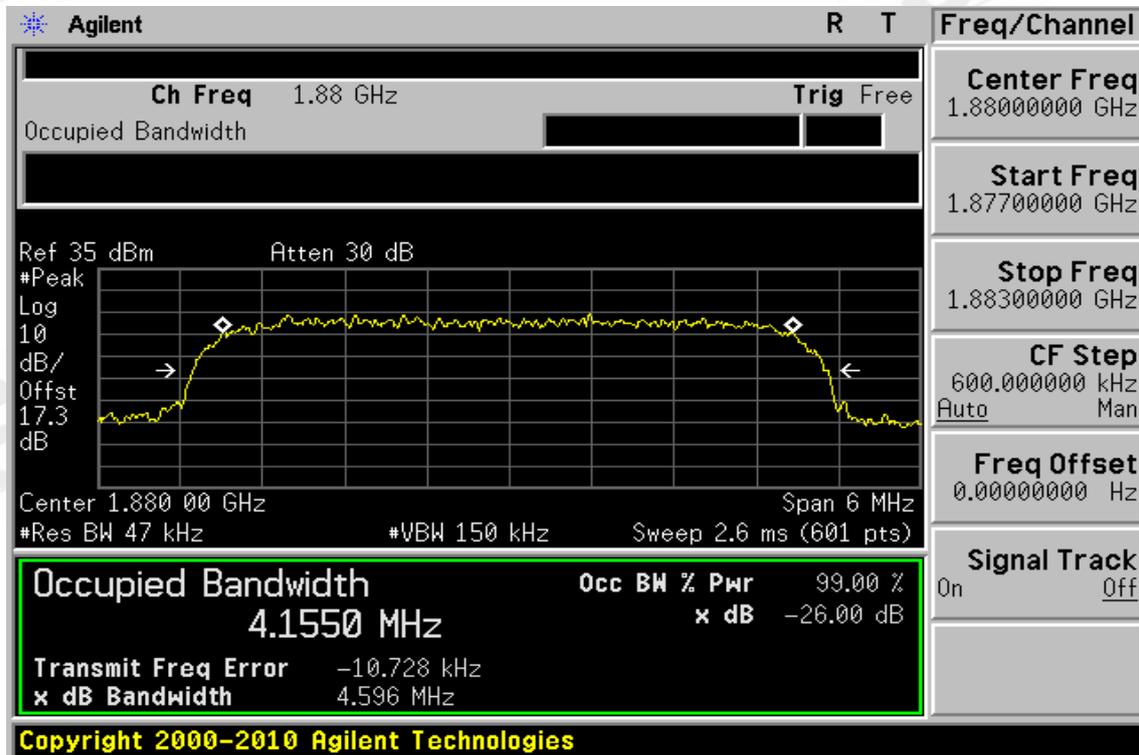


Figure 8-20: WCDMA Band II Channel Mid



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Figure 8-21: WCDMA Band II Channel High

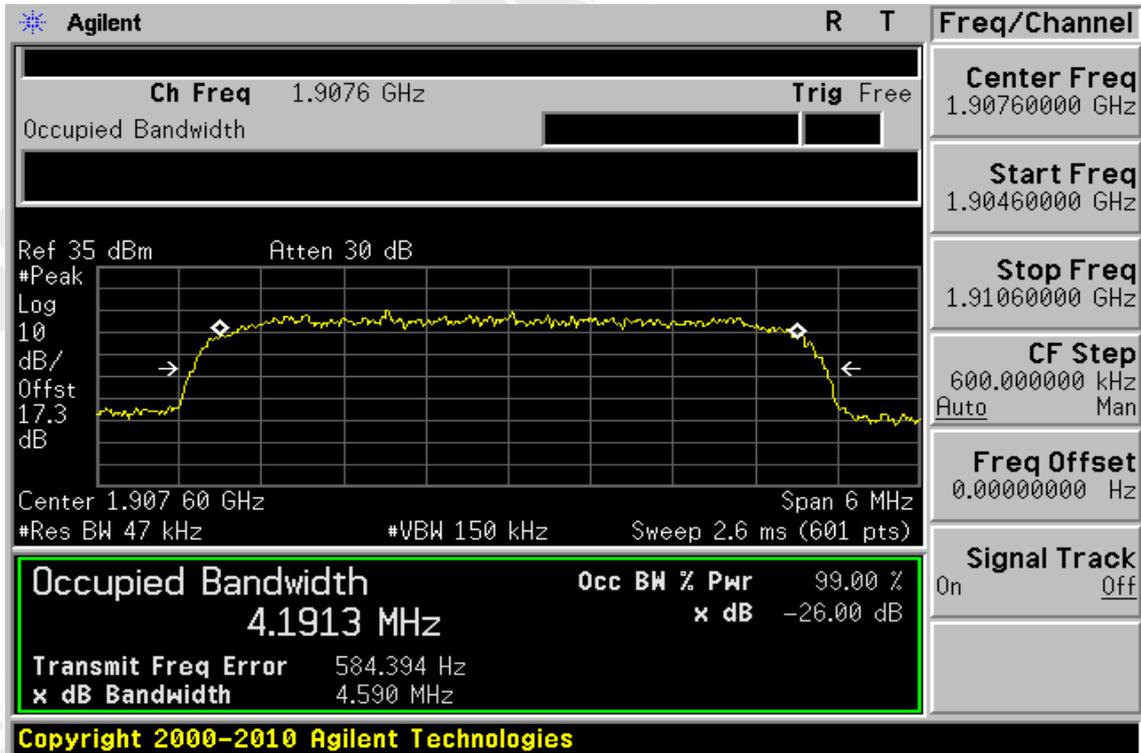
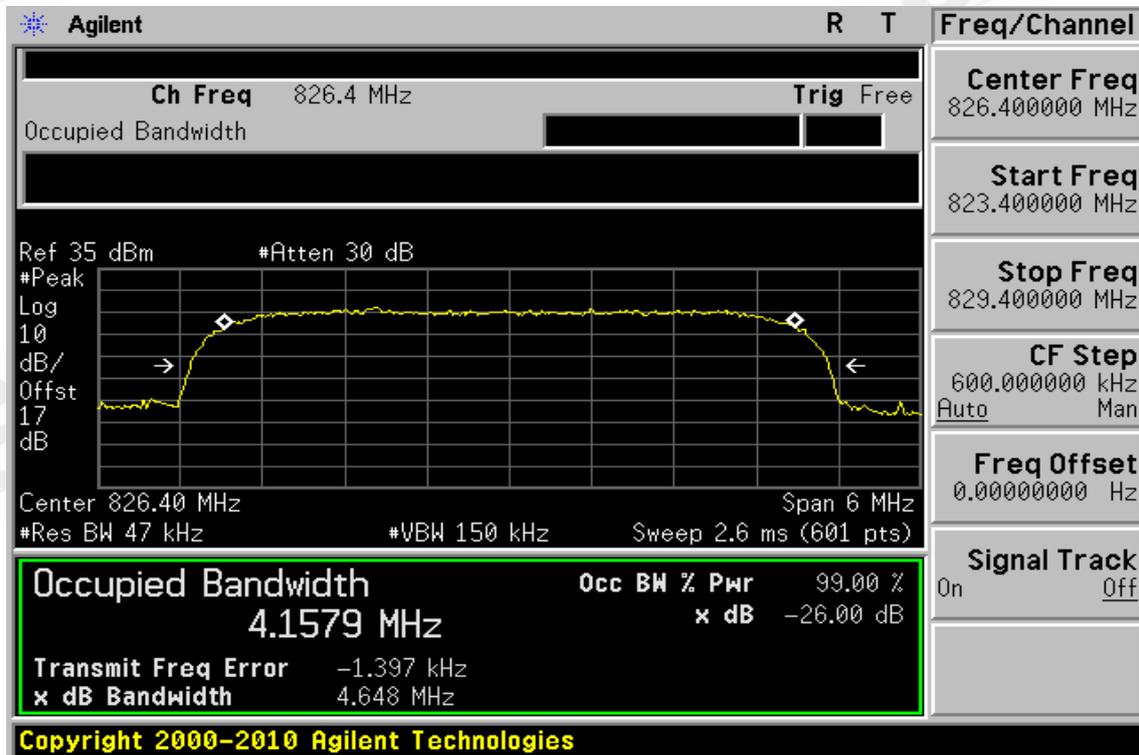


Figure 8-22: WCDMA Band V Channel Low



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Figure 8-23: WCDMA Band V Channel Mid

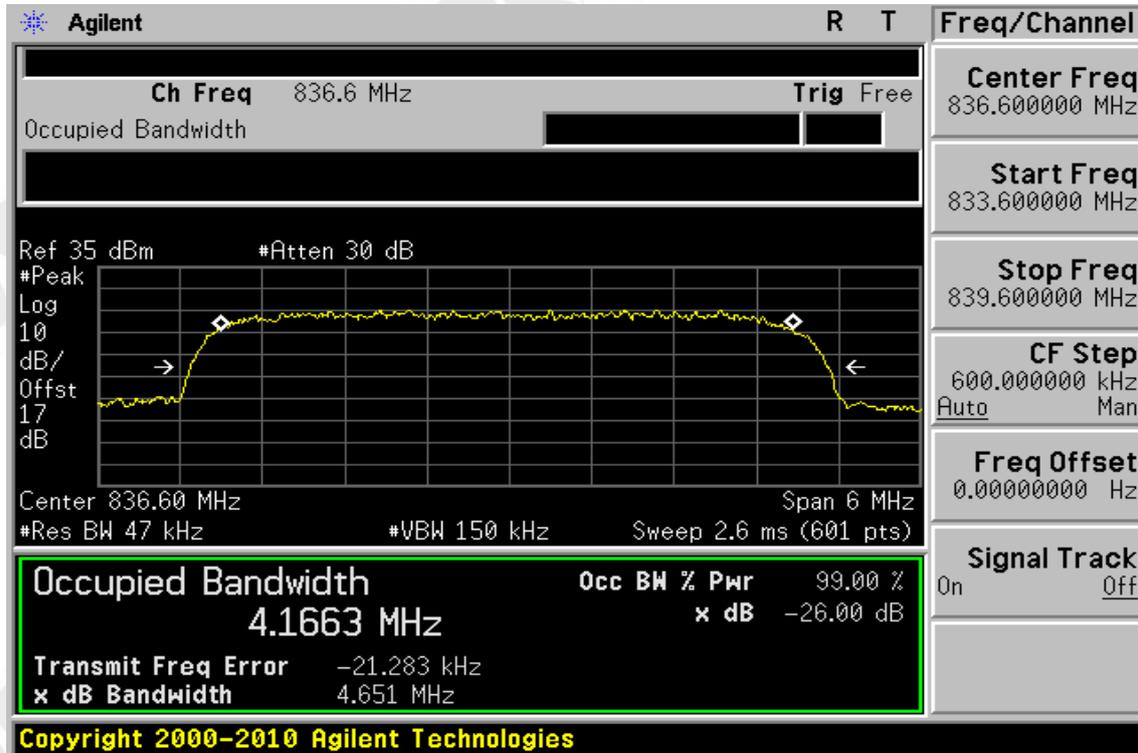
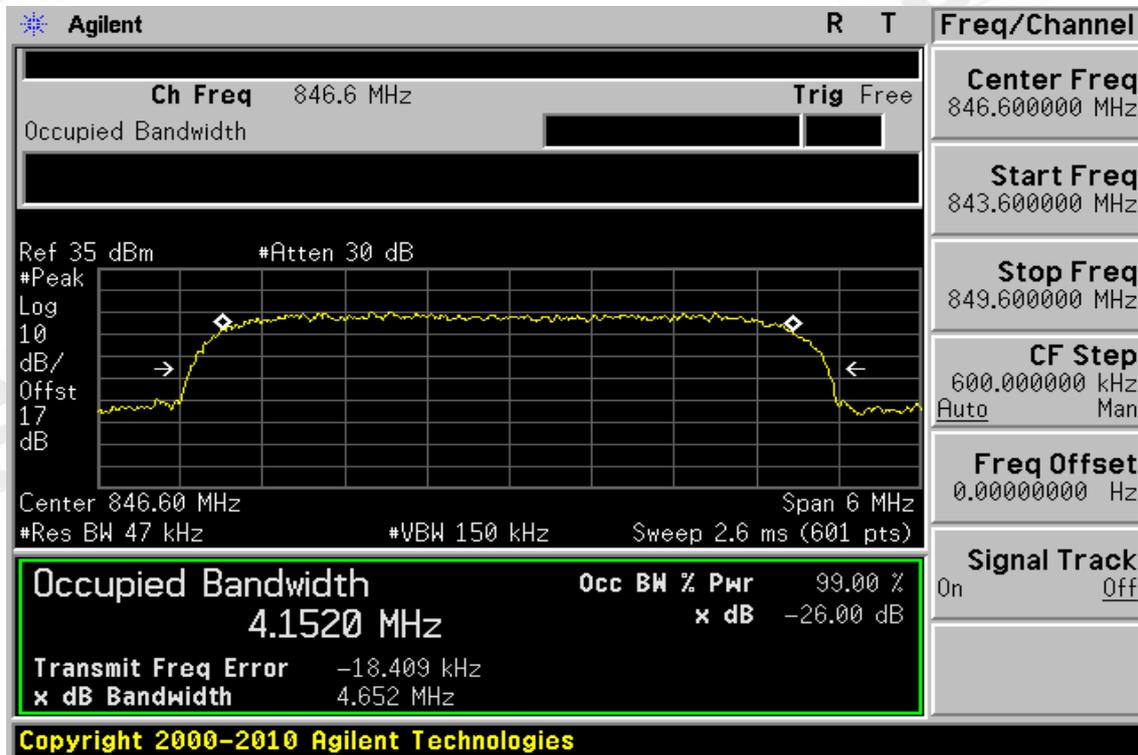


Figure 8-24: WCDMA Band V Channel High



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Figure 8-25: HSDPA Band II Channel Low

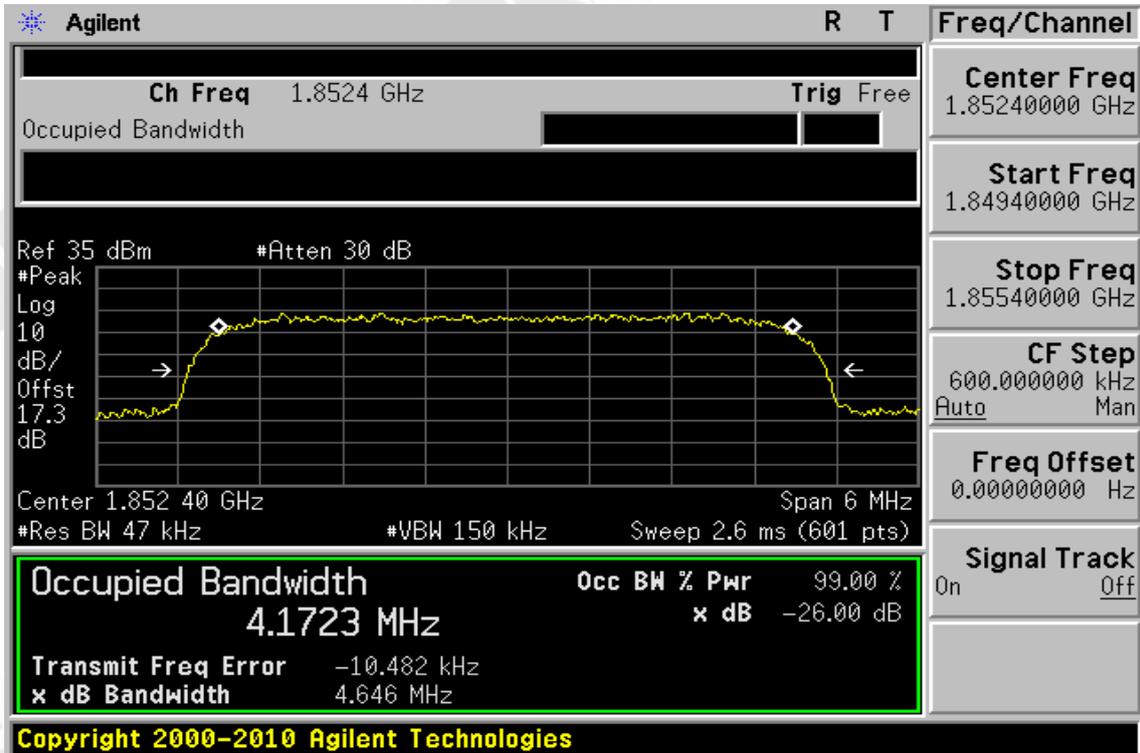
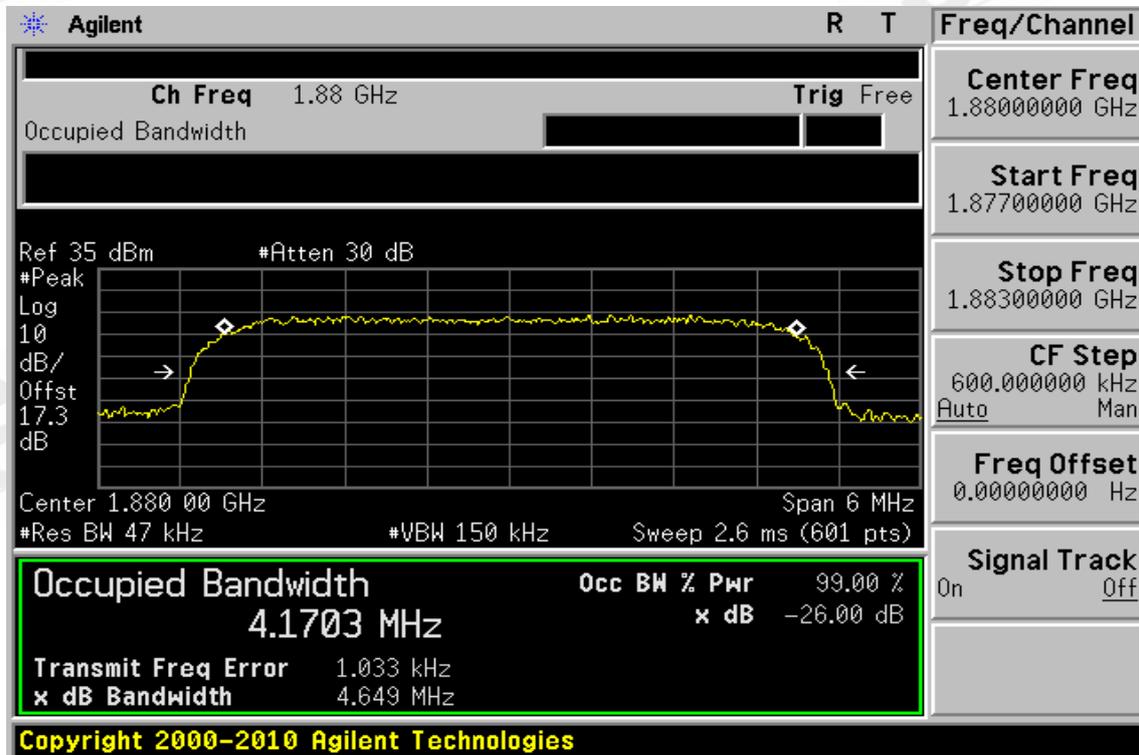


Figure 8-26: HSDPA Band II Channel Mid



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Figure 8-27: HSDPA Band II Channel High

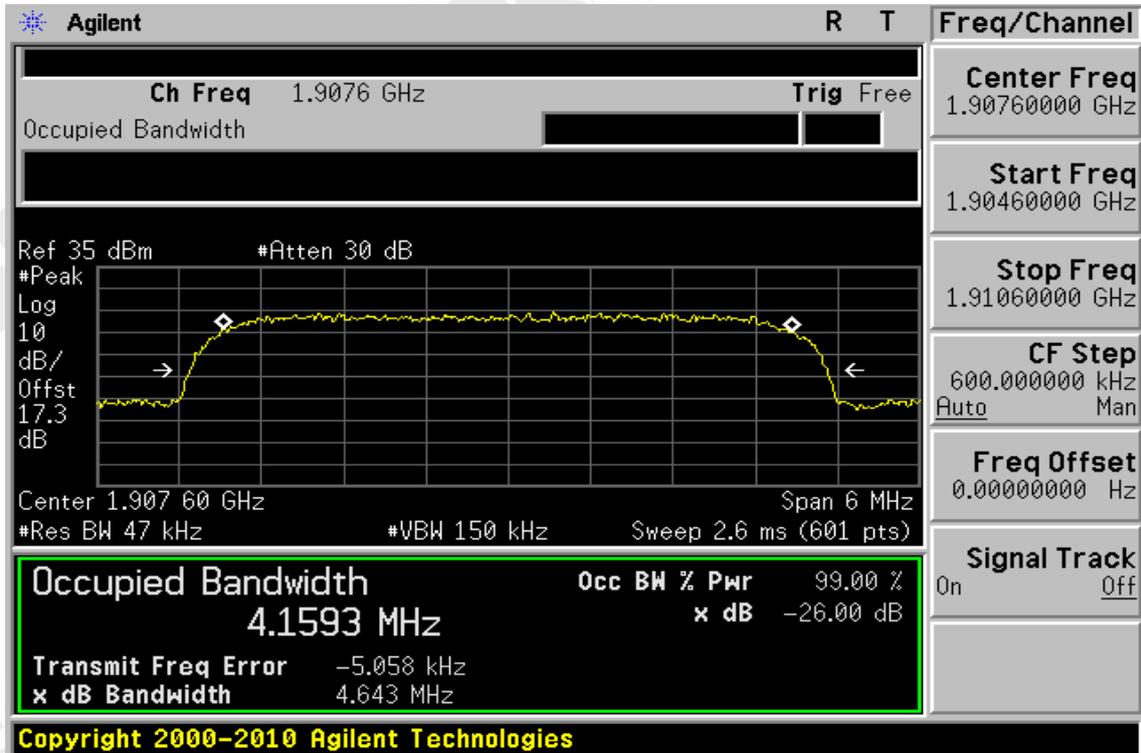
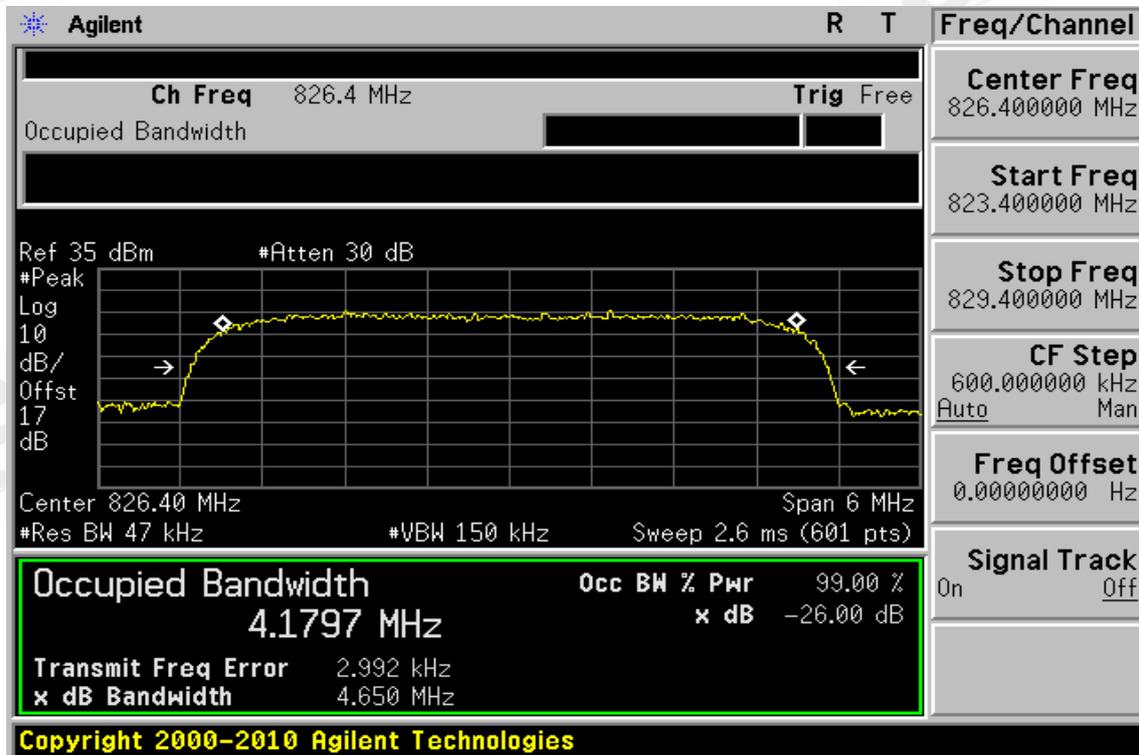


Figure 8-28: HSDPA Band V Channel Low



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Figure 8-29: HSDPA Band V Channel Mid

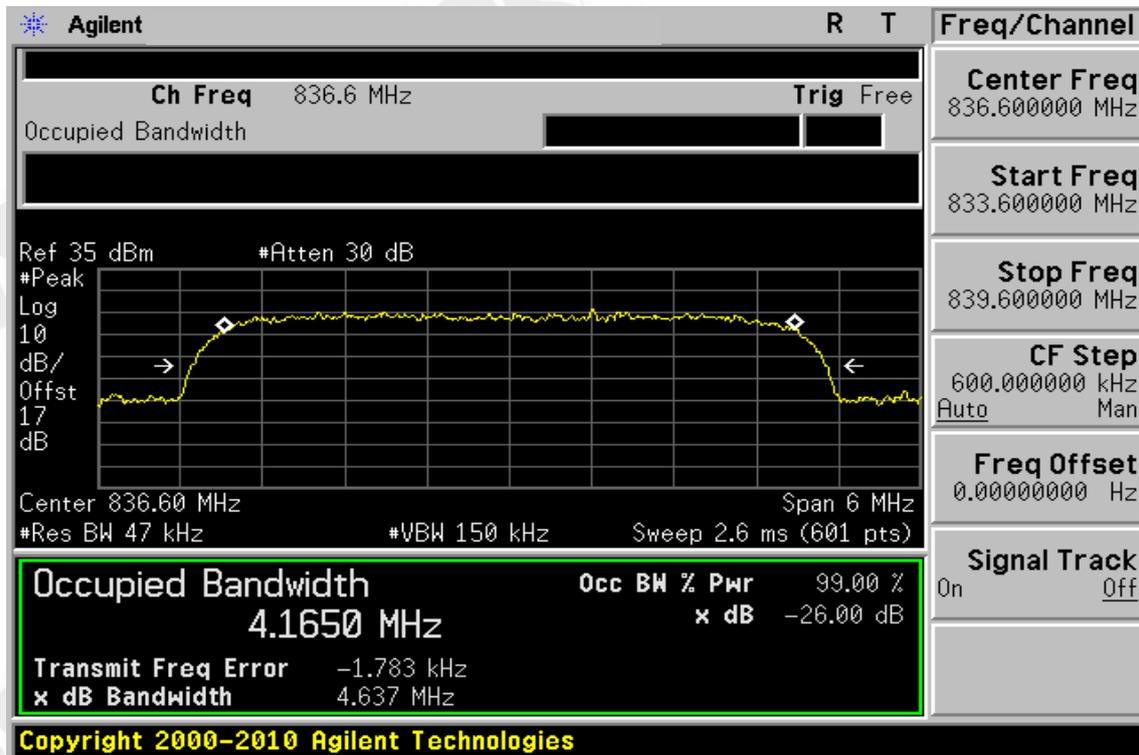
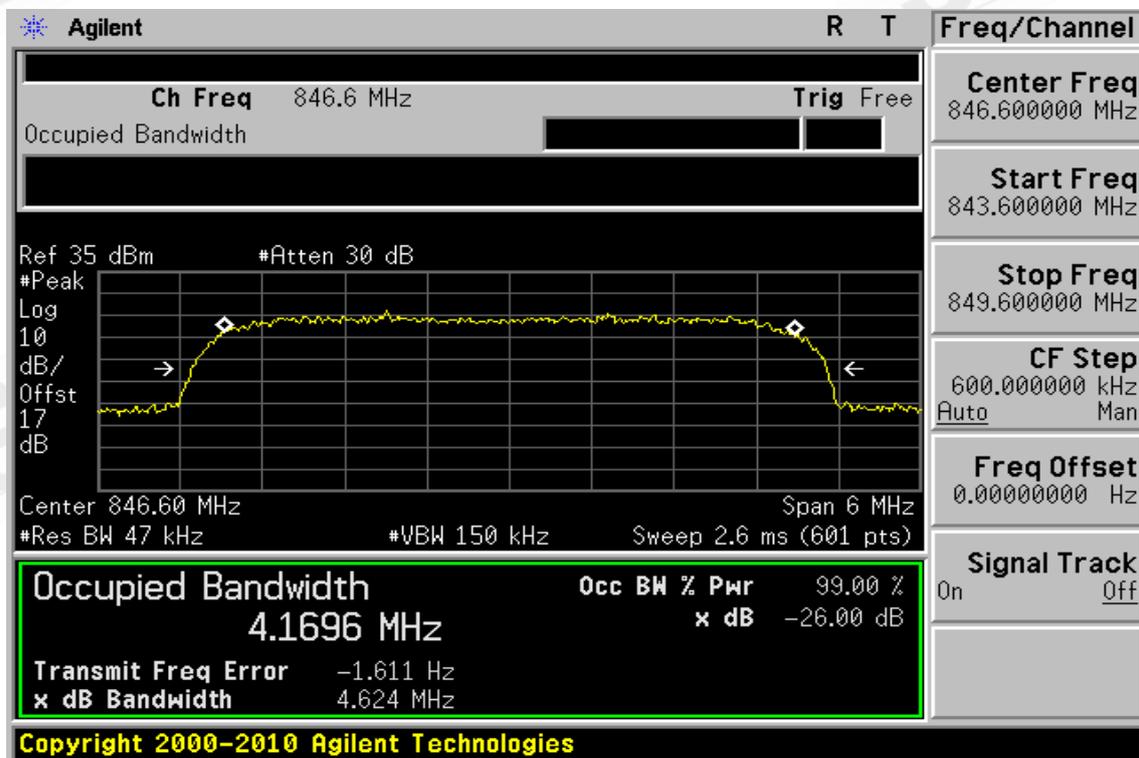


Figure 8-30: HSDPA Band V Channel High



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Figure 8-31: HSUPA Band II Channel Low

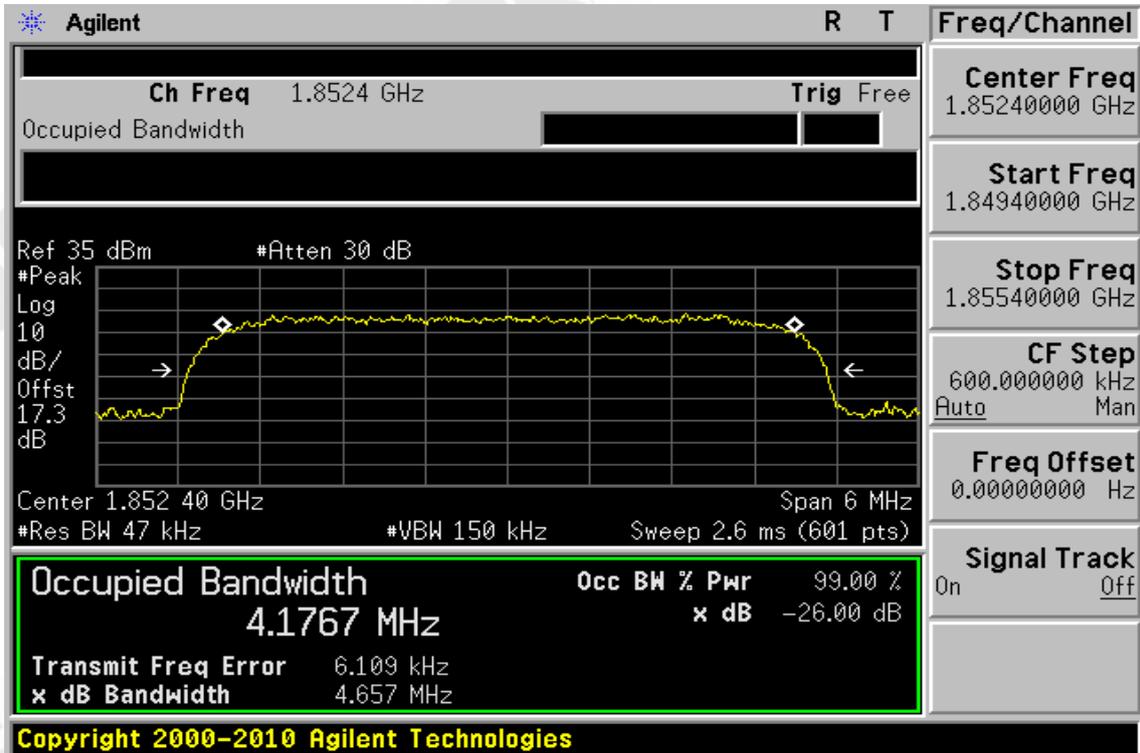
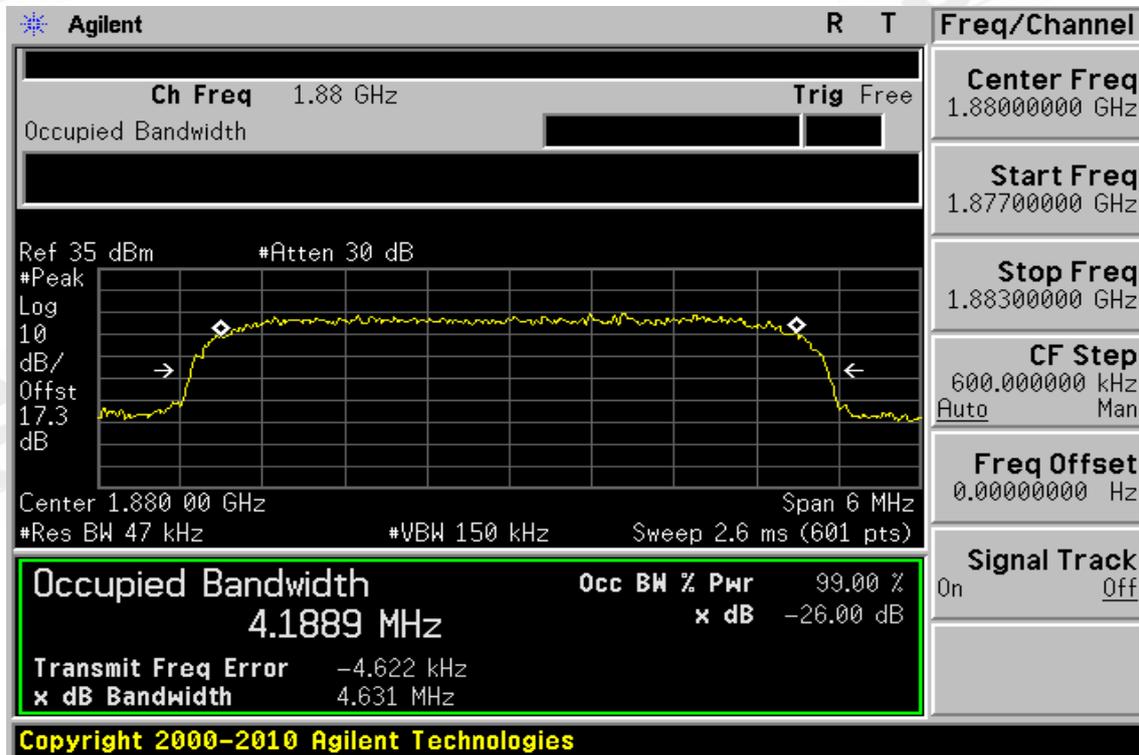


Figure 8-32: HSUPA Band II Channel Mid



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Figure 8-33: HSUPA Band II Channel High

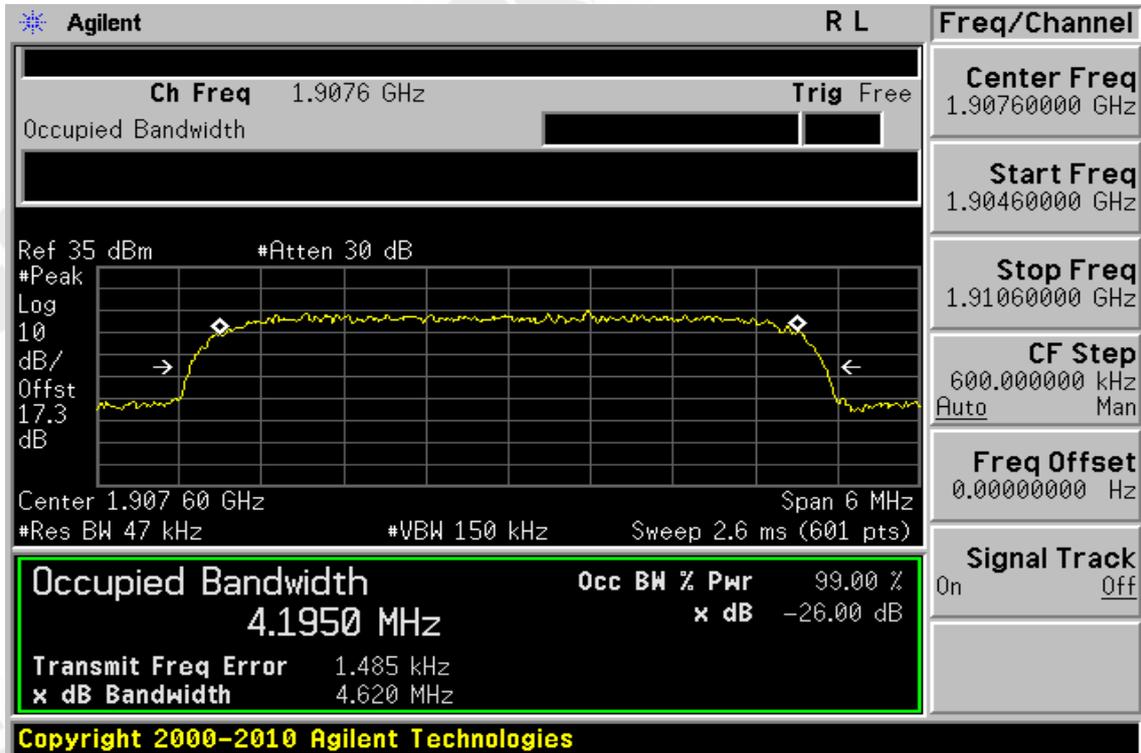
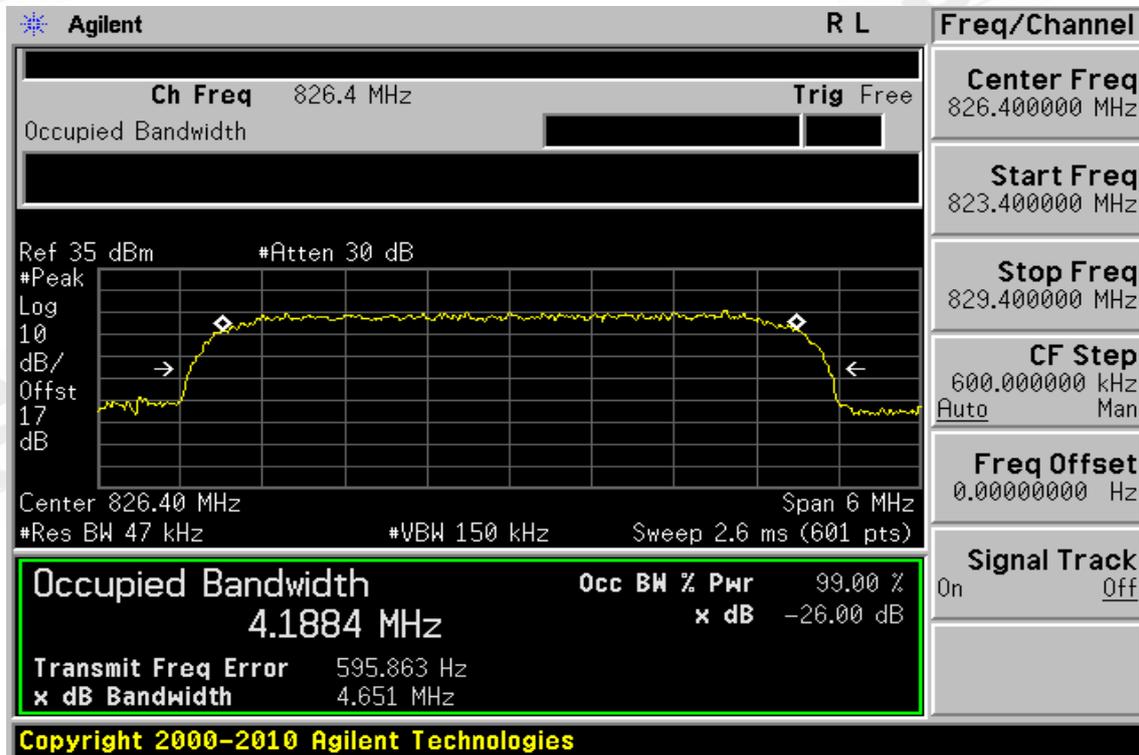


Figure 8-34: HSUPA Band V Channel Low



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Figure 8-35: HSUPA Band V Channel Mid

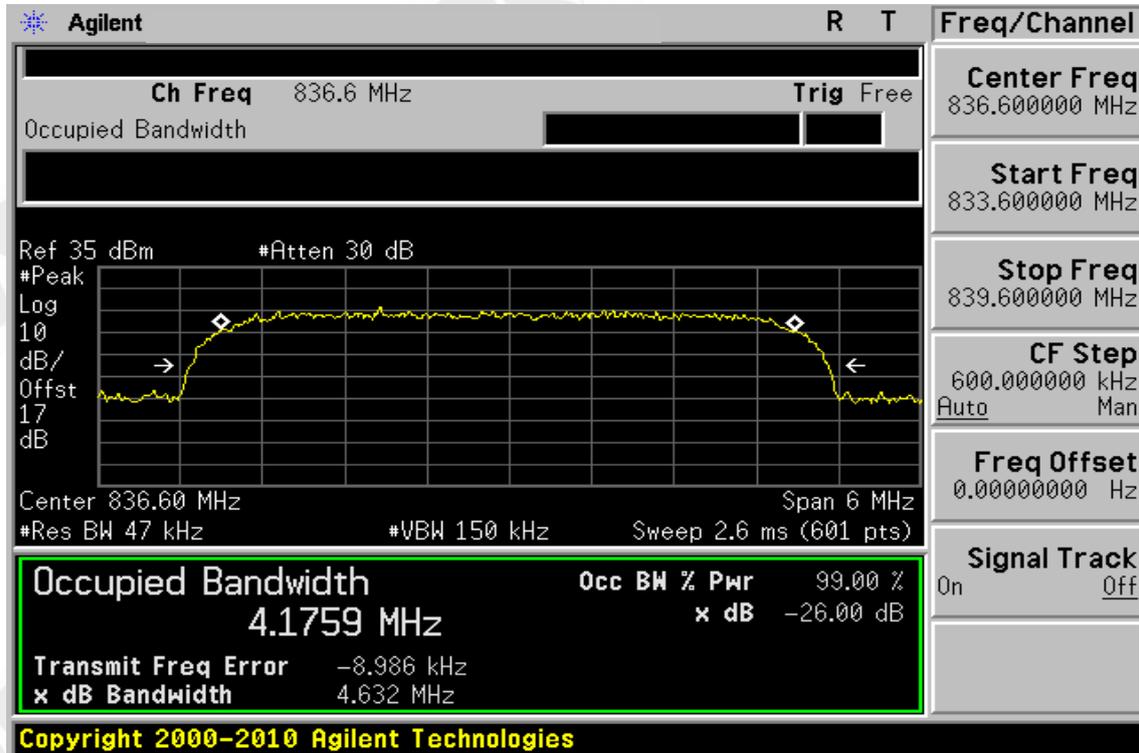
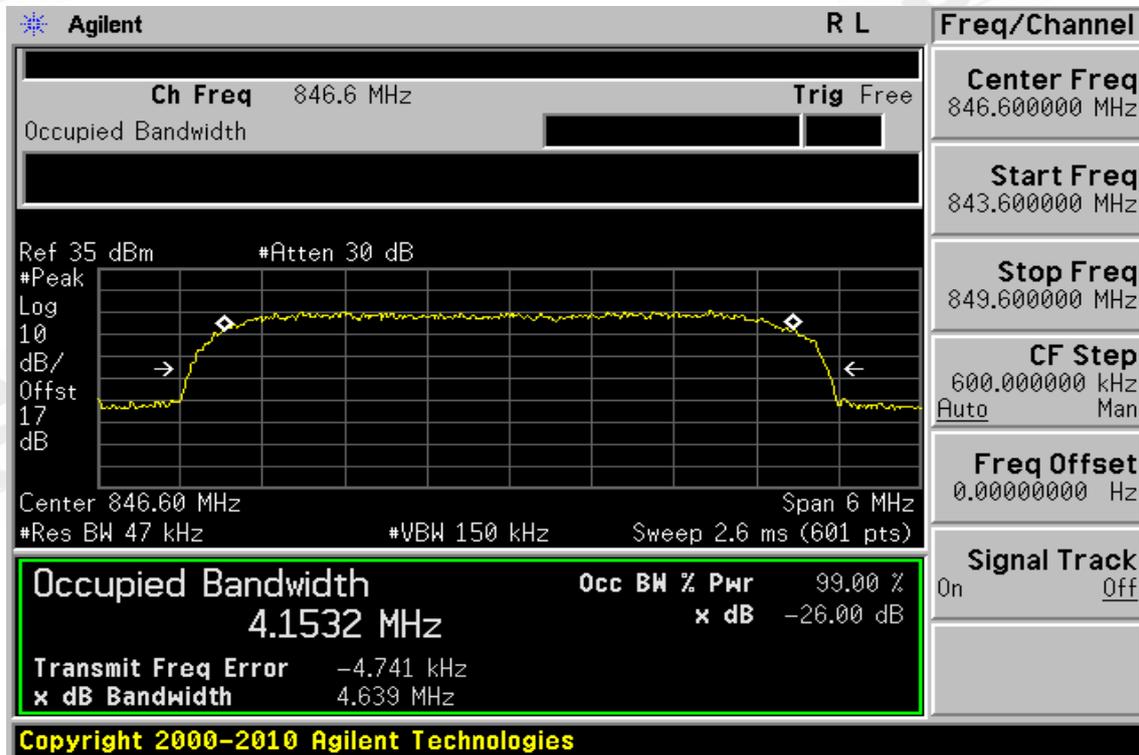


Figure 8-36: HSUPA Band V Channel High



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9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1. Standard Applicable:

According to FCC §2.1051.

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

According to RSS-132 §4.5

4.5.1 Out-of-block Emissions

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

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

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

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

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

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According to RSS-133 §6.5

6.5.1 Out-of-Block Emissions

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

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

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

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

6.5.2 Out-of-Sub-band Emissions

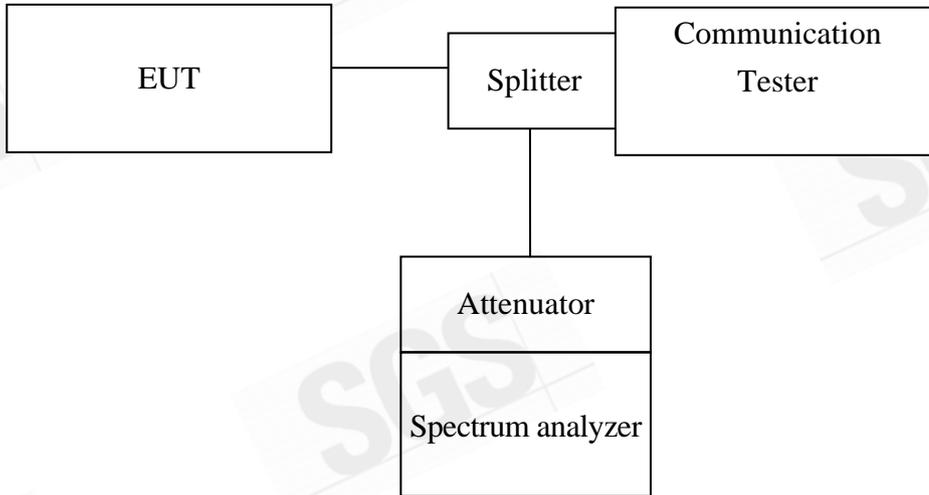
Outside the sub-bands 1850-1910 MHz and 1930-1990 MHz, the attenuation shall be equal to or greater than the out-of-block emission limits in Section 6.5.1.

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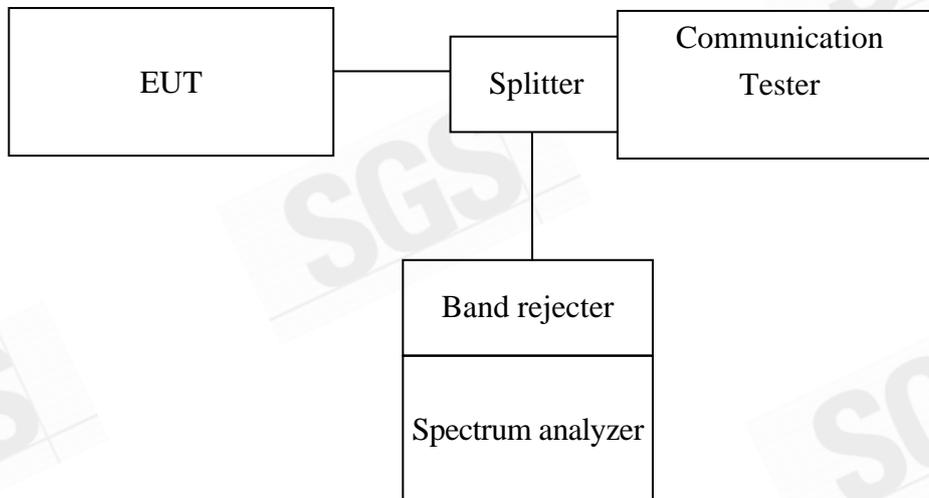
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9.2. Test SET-UP: Out of band emission



Band Edge



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9.3. Measurement Procedure:

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

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

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

Conducted Emission:

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

9.4. Measurement Equipment Used:

Refer to section 2.4 in this report

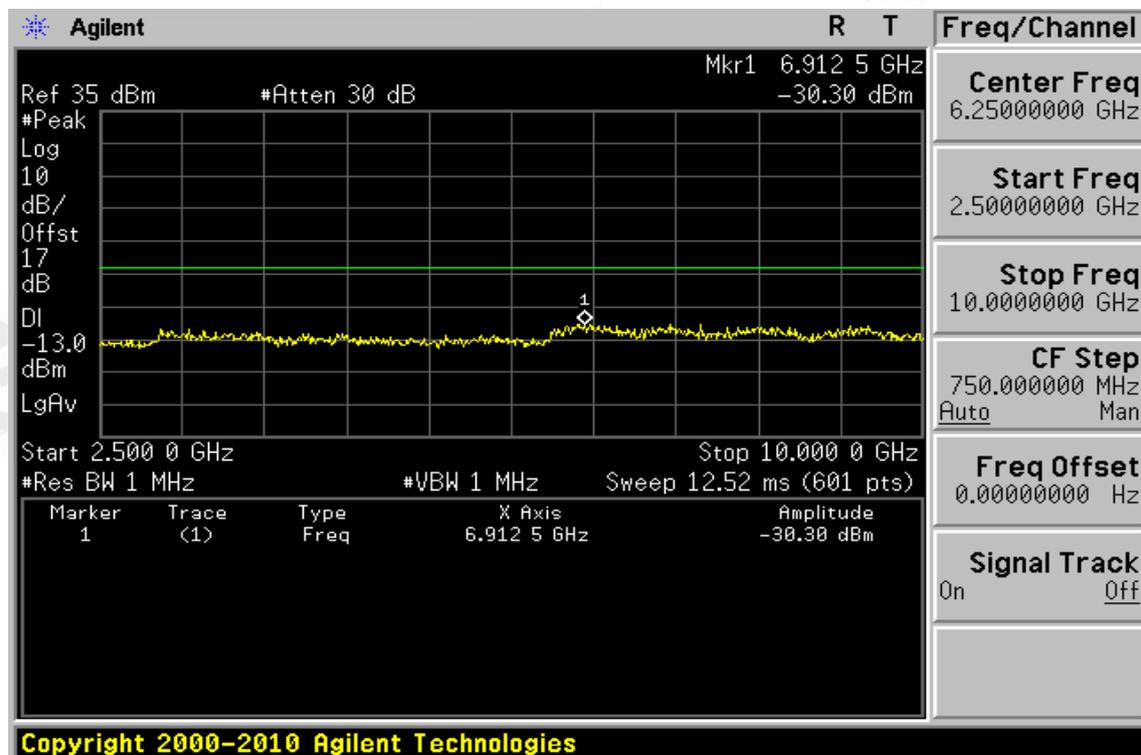
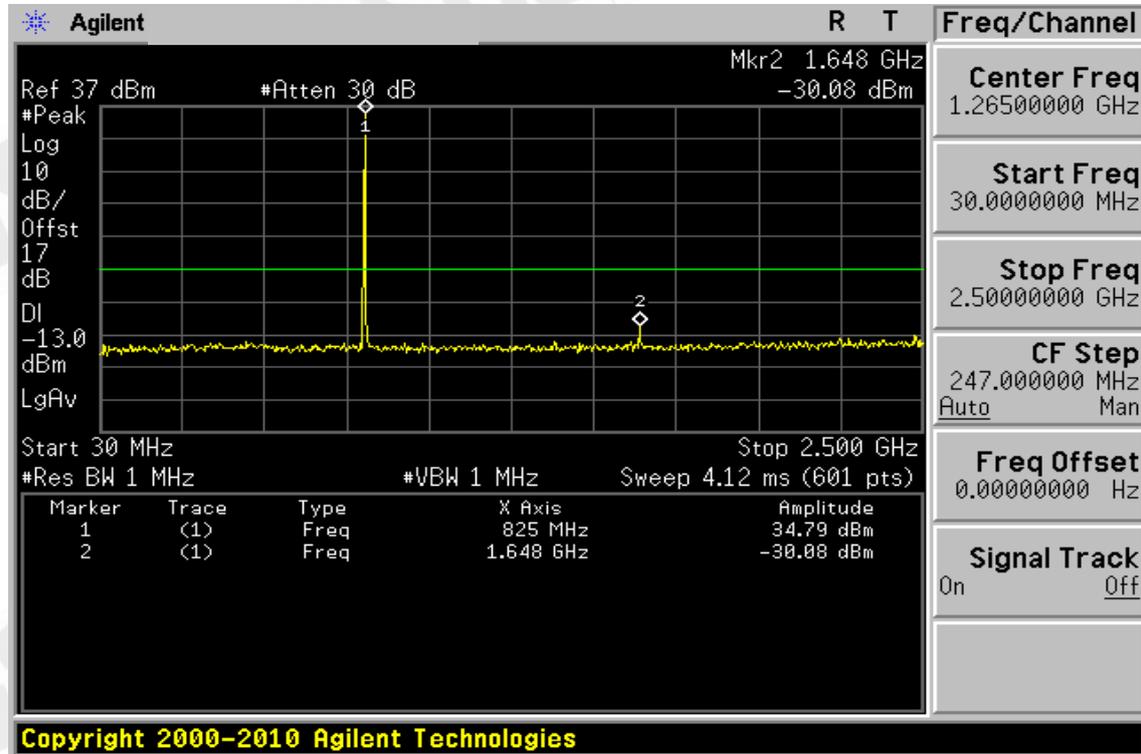
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9.5. Measurement Result:

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

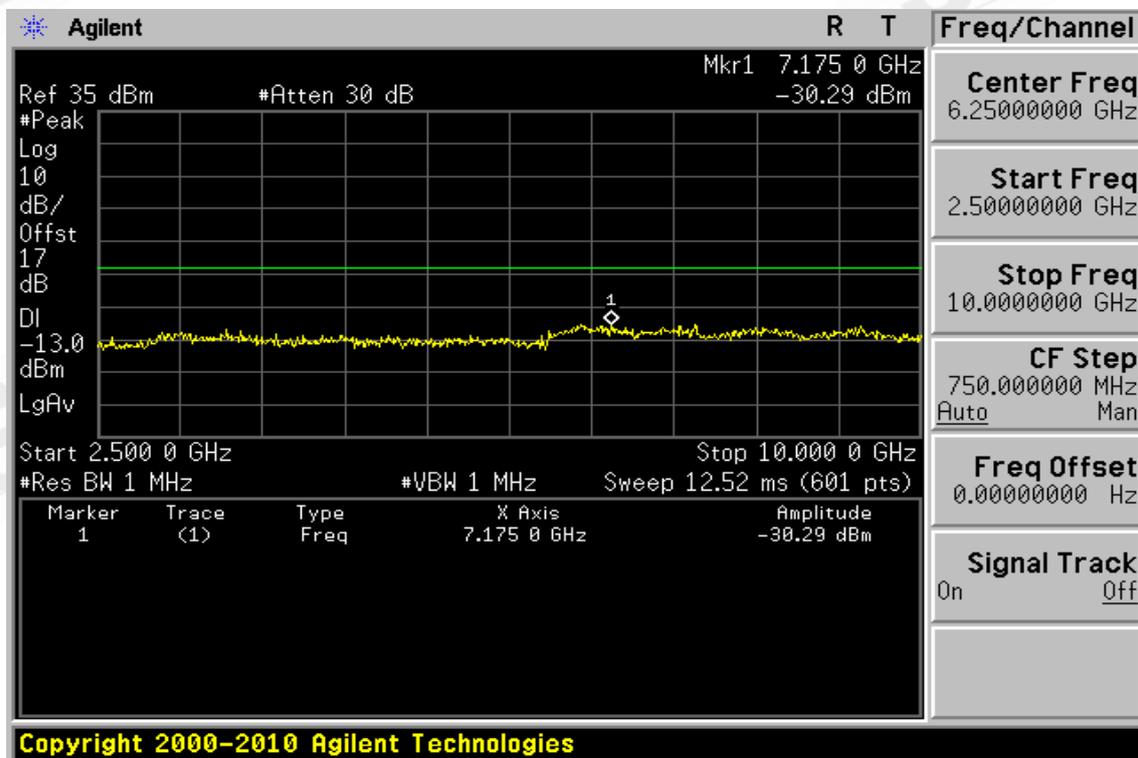
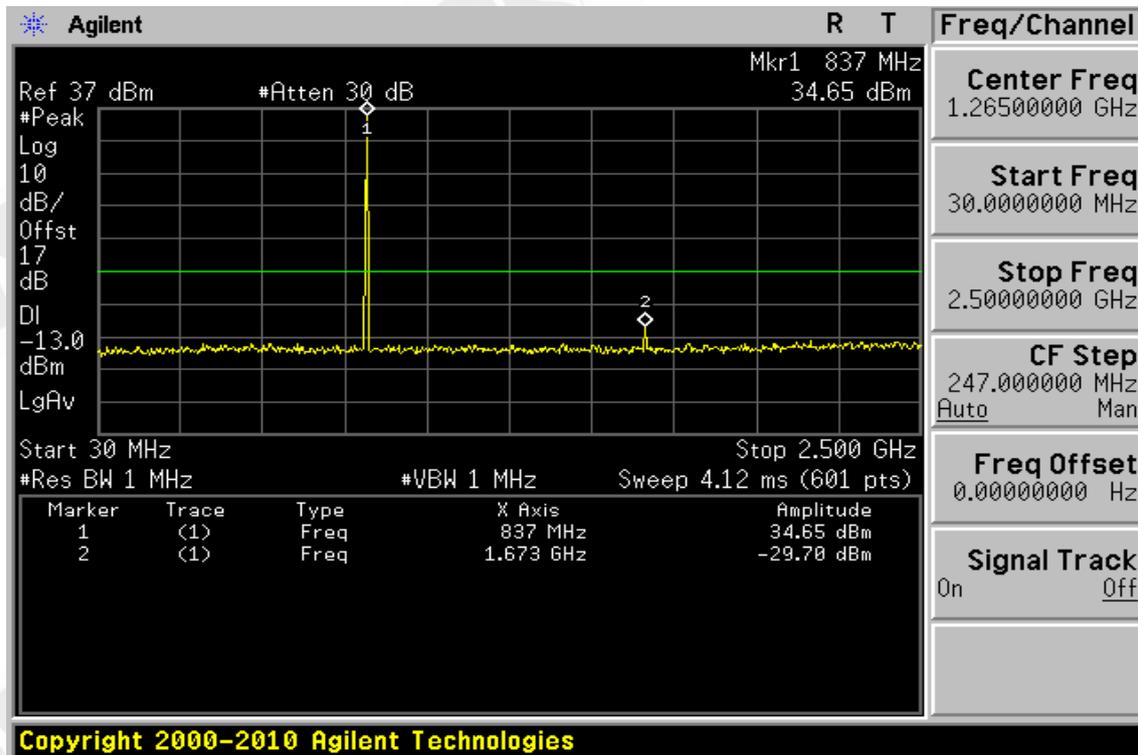


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Figure 9-2: Out of Band emission at antenna terminals – GSM 850 Channel Mid

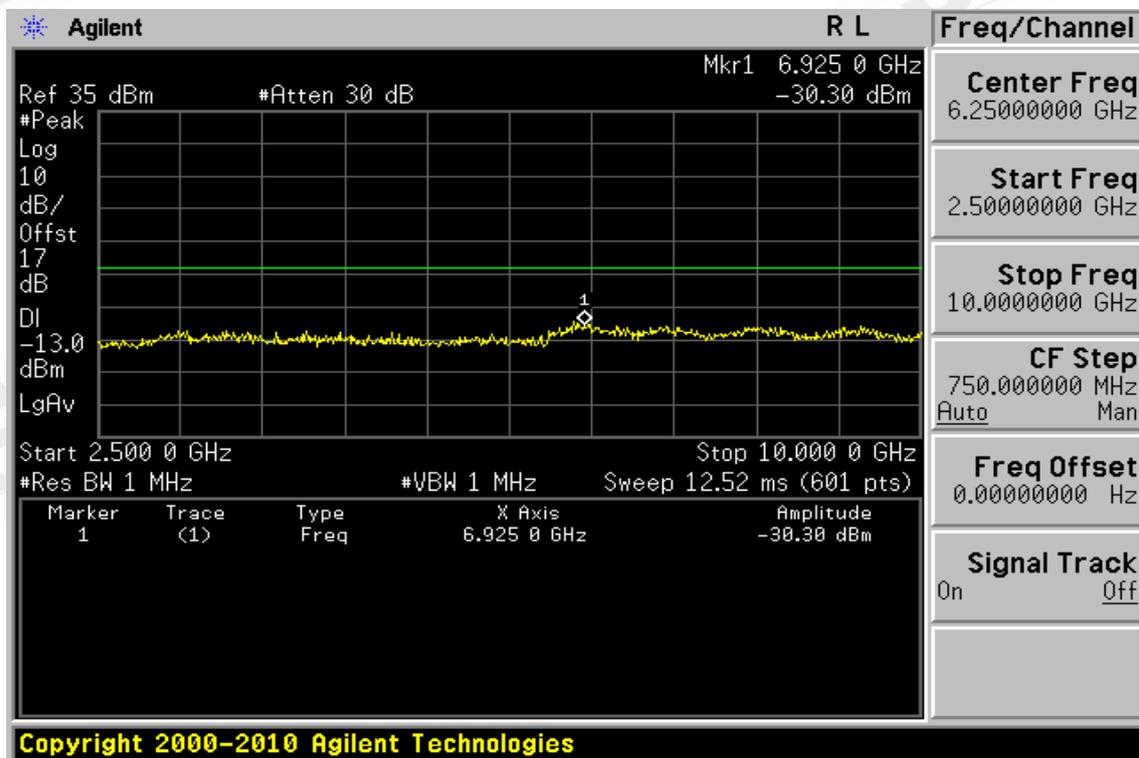
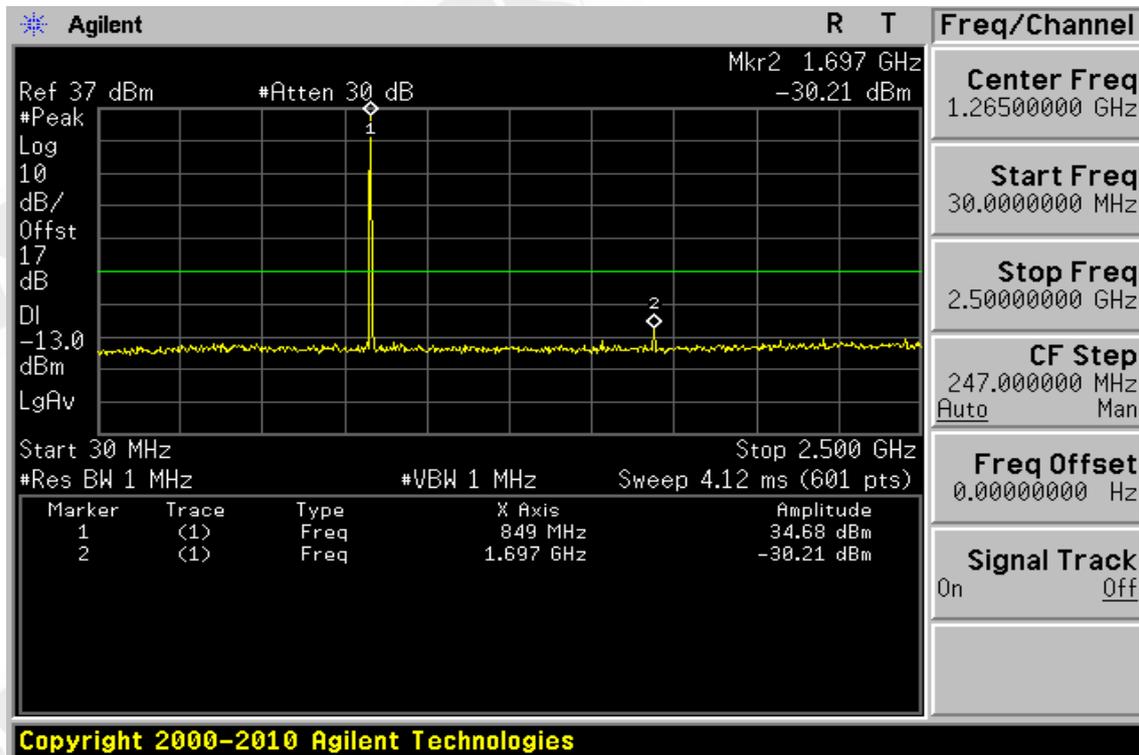


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Figure 9-3: Out of Band emission at antenna terminals – GSM 850 Channel Highest



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Out of Band emission at antenna terminals – GSM 850

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|-------------|--------------|-------------|-----------|----------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 1648.40 | H | -30.08 | -13.00 | 17.08 |
| 2472.60 | H | --- | -13.00 | --- |
| 3296.80 | H | --- | -13.00 | --- |
| 4121.00 | H | --- | -13.00 | --- |
| 4945.20 | H | --- | -13.00 | --- |
| 5769.40 | H | --- | -13.00 | --- |
| 6593.60 | H | --- | -13.00 | --- |
| 6912.50 | S | -30.30 | -13.00 | 17.30 |
| 7417.80 | H | --- | -13.00 | --- |
| 8242.00 | H | --- | -13.00 | --- |

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

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|-------------|--------------|-------------|-----------|----------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 1673.20 | S | -29.70 | -13.00 | 16.70 |
| 2509.80 | H | --- | -13.00 | --- |
| 3346.40 | H | --- | -13.00 | --- |
| 4183.00 | H | --- | -13.00 | --- |
| 5019.60 | H | --- | -13.00 | --- |
| 5856.20 | H | --- | -13.00 | --- |
| 6692.80 | H | --- | -13.00 | --- |
| 7175.00 | S | -30.29 | -13.00 | 17.29 |
| 7529.40 | H | --- | -13.00 | --- |
| 8366.00 | H | --- | -13.00 | --- |

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

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|-------------|--------------|-------------|-----------|----------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 1697.60 | S | -30.21 | -13.00 | 17.21 |
| 2546.40 | H | --- | -13.00 | --- |
| 3395.20 | H | --- | -13.00 | --- |
| 4244.00 | H | --- | -13.00 | --- |
| 5092.80 | H | --- | -13.00 | --- |
| 5941.60 | H | --- | -13.00 | --- |
| 6790.40 | H | --- | -13.00 | --- |
| 6925.00 | S | -30.3 | -13.00 | 17.30 |
| 7639.20 | H | --- | -13.00 | --- |
| 8488.00 | H | --- | -13.00 | --- |

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

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

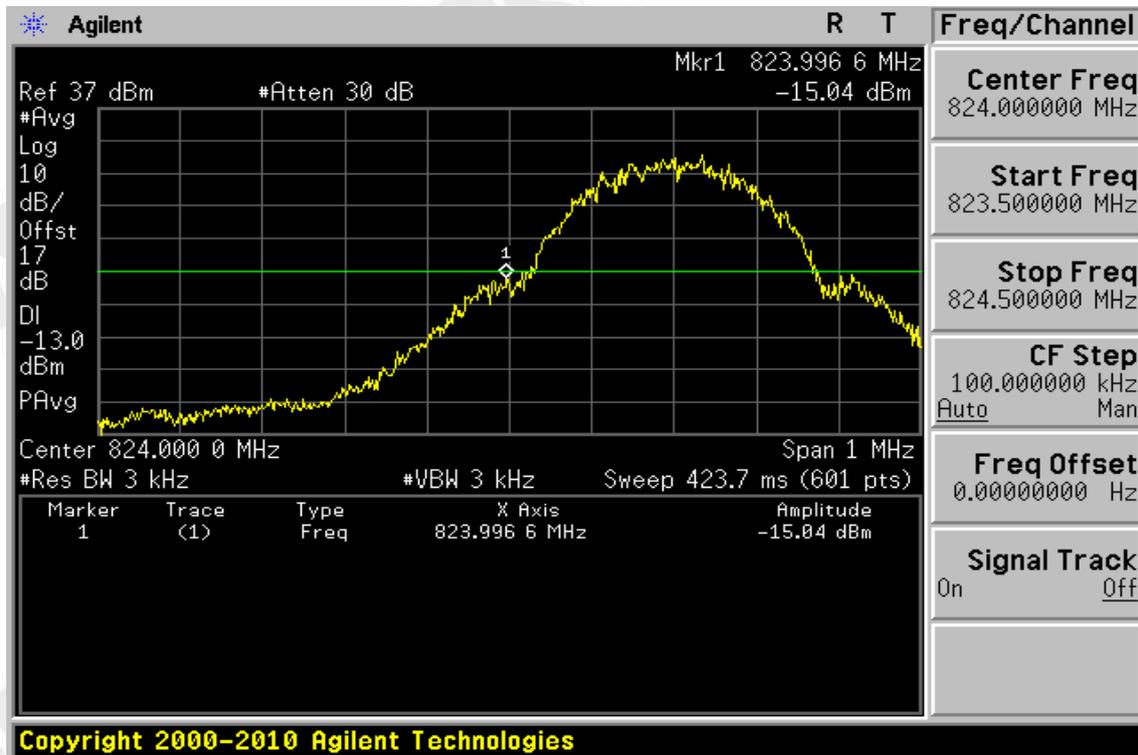
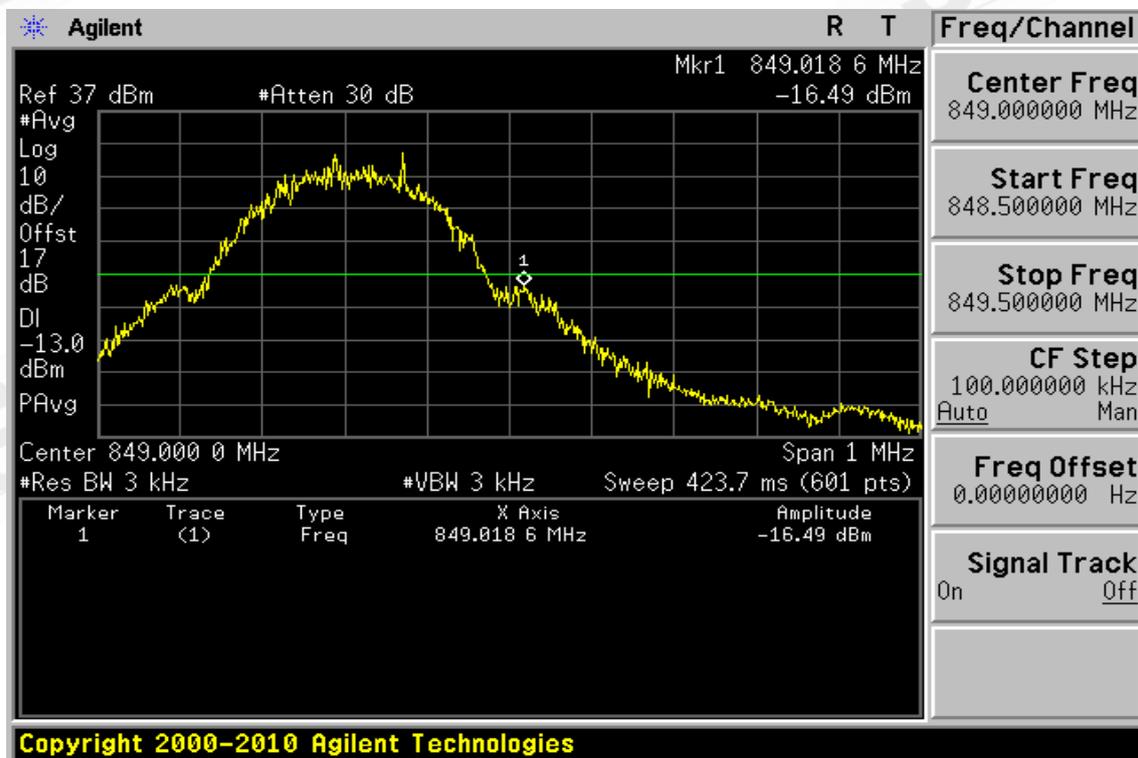


Figure 9-5: Band edge emission at antenna terminals – GSM 850 Channel Highest



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

Test Mode GSM 850 Engineer :Jimmy

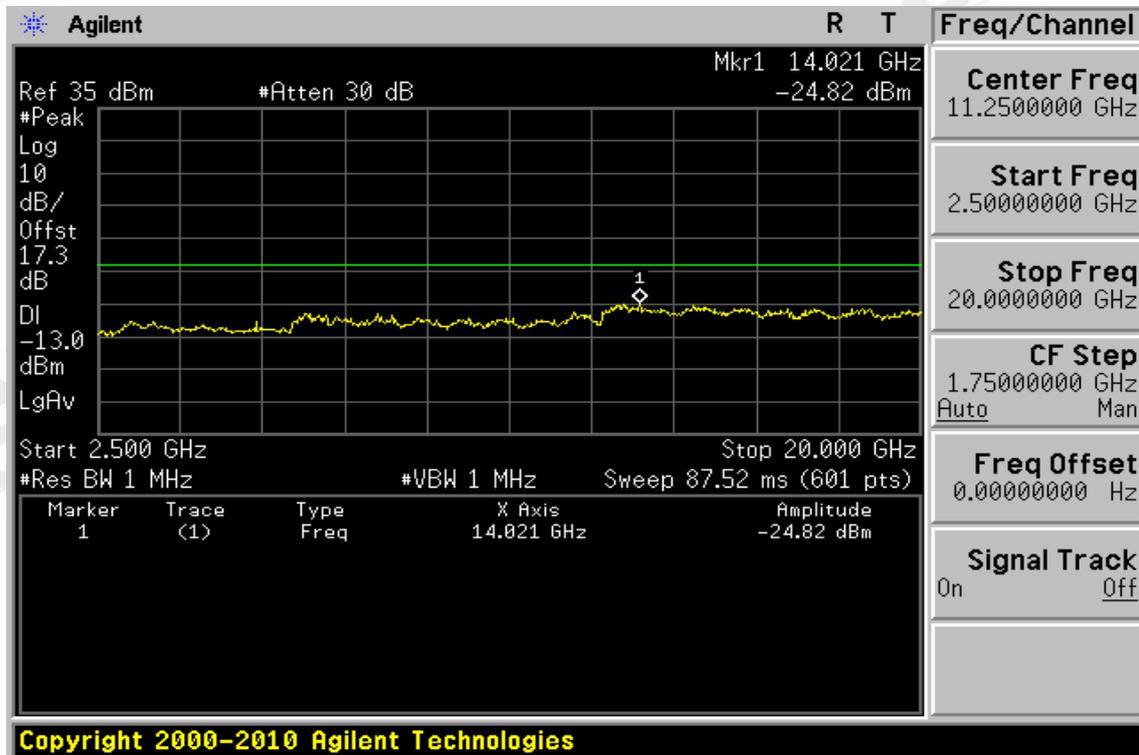
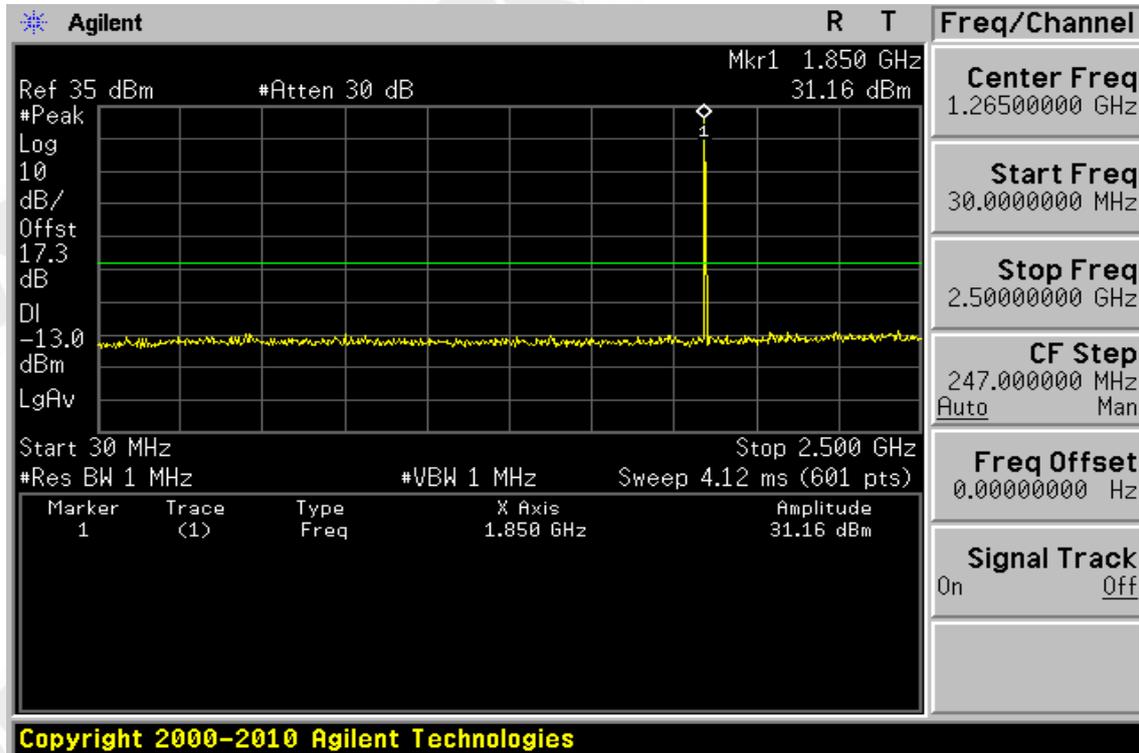
| Freq. MHz | Reading dBm | Limit dBm | Safe Margin dB |
|--------------|----------------|--------------|----------------------|
| 823.996 | -15.04 | -13.00 | 2.04 |
| 849.018 | -16.49 | -13.00 | 3.49 |

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

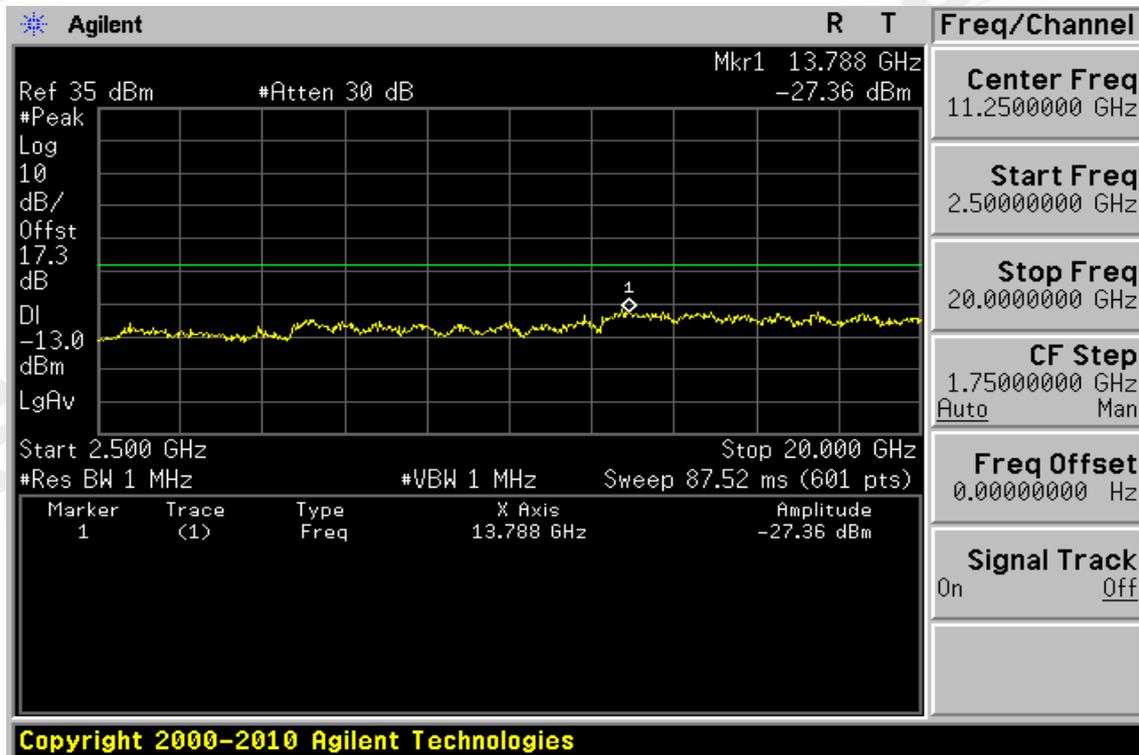
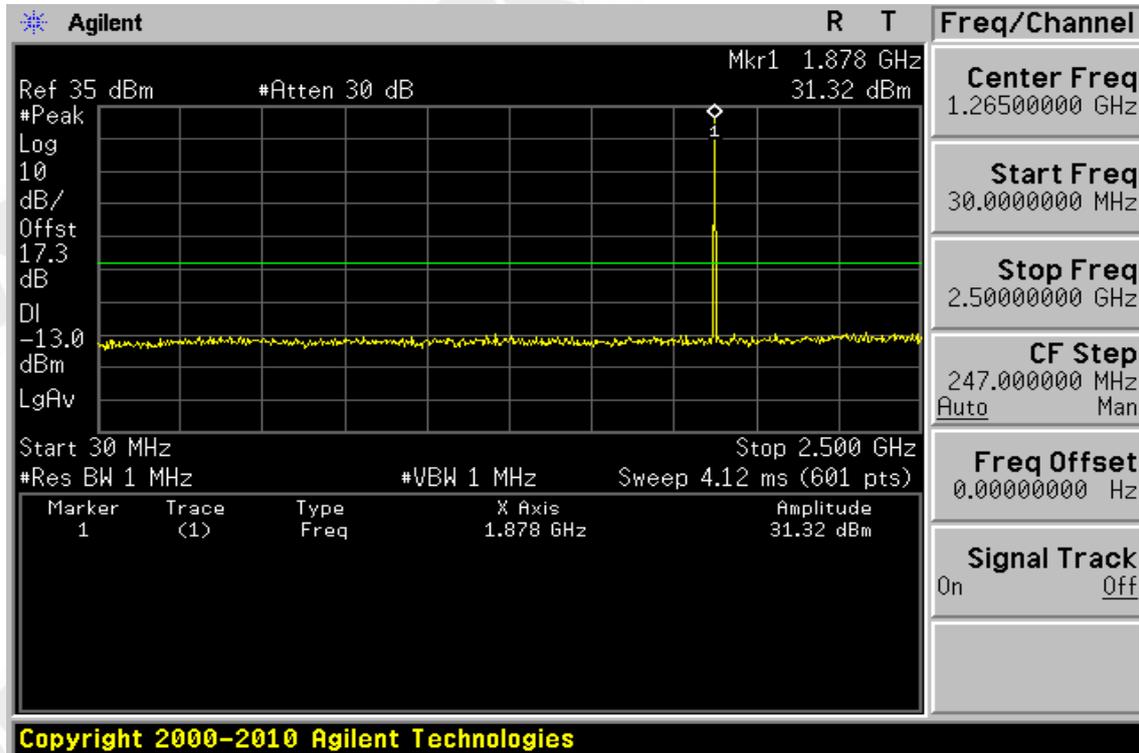


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Figure 9-7: Out of Band emission at antenna terminals – GSM 1900 Channel Mid

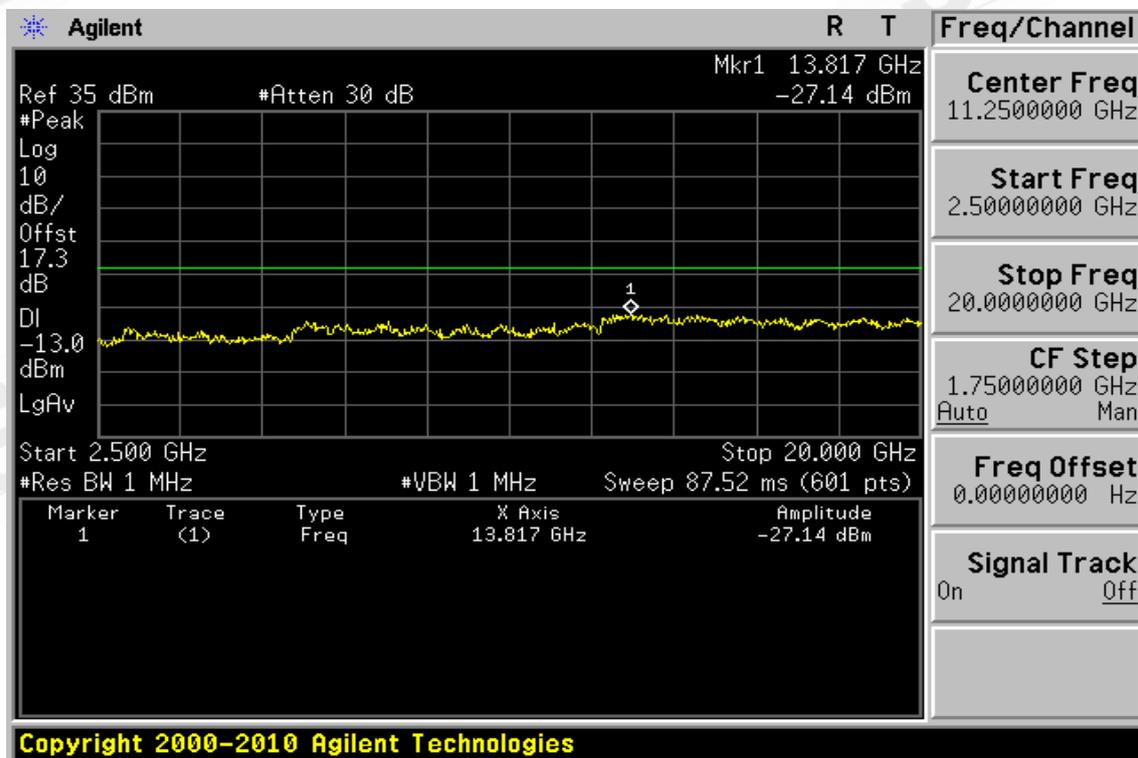
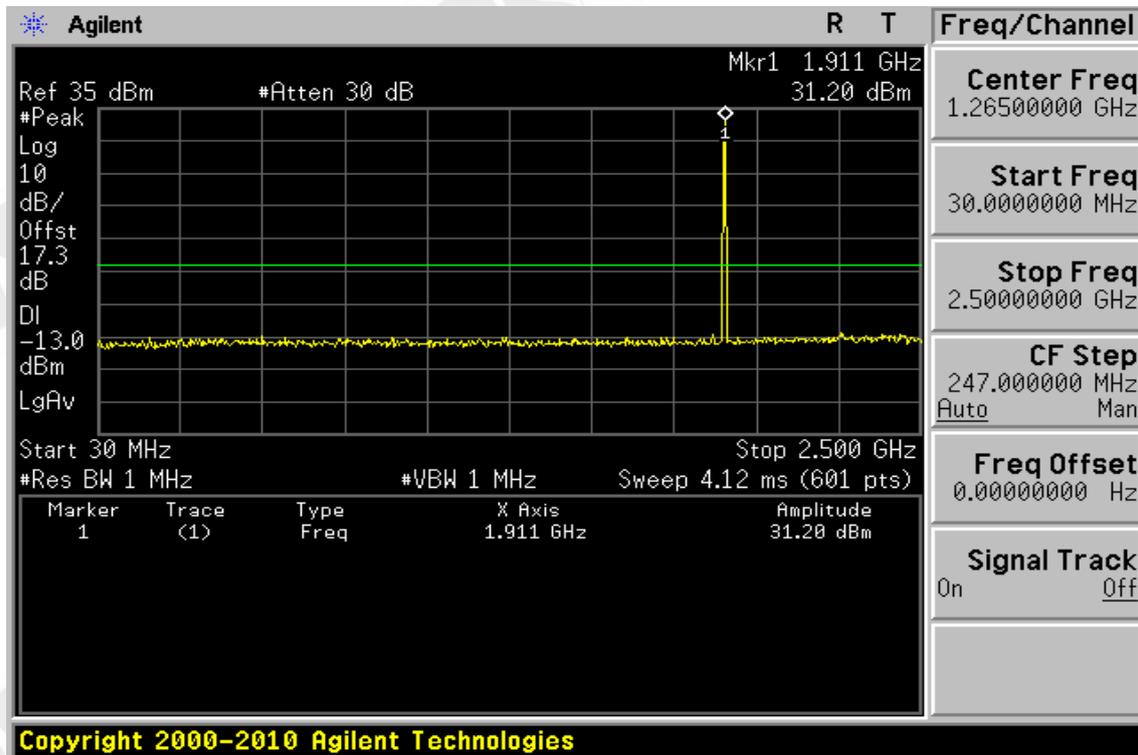


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Figure 9-8: Out of Band emission at antenna terminals – GSM 1900 Channel Highest



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Out of Band emission at antenna terminals – GSM 1900

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|-------------|--------------|-------------|-----------|----------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 3700.40 | H | --- | -13.00 | --- |
| 5550.60 | H | --- | -13.00 | --- |
| 7400.80 | H | --- | -13.00 | --- |
| 9251.00 | H | --- | -13.00 | --- |
| 11101.20 | H | --- | -13.00 | --- |
| 12951.40 | H | --- | -13.00 | --- |
| 14021.00 | S | -24.82 | -13.00 | 11.82 |
| 14801.60 | H | --- | -13.00 | --- |
| 16651.80 | H | --- | -13.00 | --- |
| 18502.00 | H | --- | -13.00 | --- |

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

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|-------------|--------------|-------------|-----------|----------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 3760.00 | H | --- | -13.00 | --- |
| 5640.00 | H | --- | -13.00 | --- |
| 7520.00 | H | --- | -13.00 | --- |
| 9400.00 | H | --- | -13.00 | --- |
| 11280.00 | H | --- | -13.00 | --- |
| 13160.00 | H | --- | -13.00 | --- |
| 13788.00 | S | -27.36 | -13.00 | 14.36 |
| 15040.00 | H | --- | -13.00 | --- |
| 16920.00 | H | --- | -13.00 | --- |
| 18800.00 | H | --- | -13.00 | --- |

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

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|-------------|--------------|-------------|-----------|----------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 3819.60 | H | --- | -13.00 | --- |
| 5729.40 | H | --- | -13.00 | --- |
| 7639.20 | H | --- | -13.00 | --- |
| 9549.00 | H | --- | -13.00 | --- |
| 11458.80 | H | --- | -13.00 | --- |
| 13368.60 | H | --- | -13.00 | --- |
| 13817.00 | S | -27.14 | -13.00 | 14.14 |
| 15278.40 | H | --- | -13.00 | --- |
| 17188.20 | H | --- | -13.00 | --- |
| 19098.00 | H | --- | -13.00 | --- |

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

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

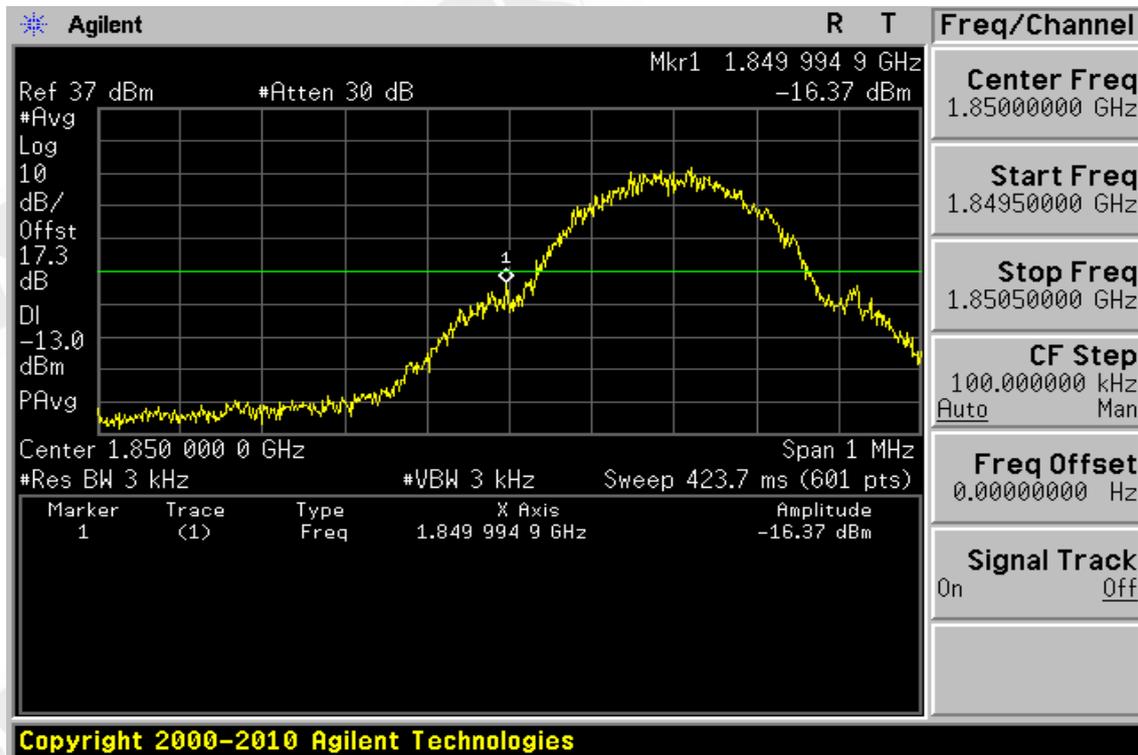
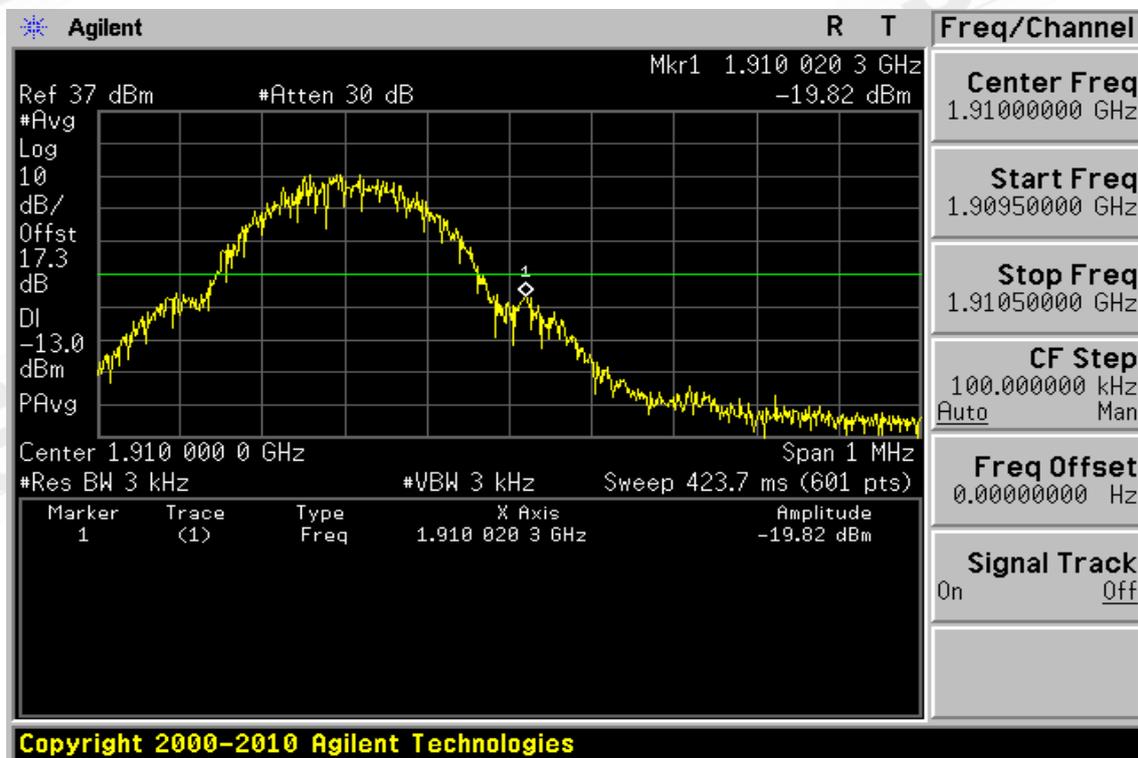


Figure 9-10: Band edge emission at antenna terminals – GSM 1900 Channel Highest



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

Test Mode GSM 1900 Engineer :Jimmy

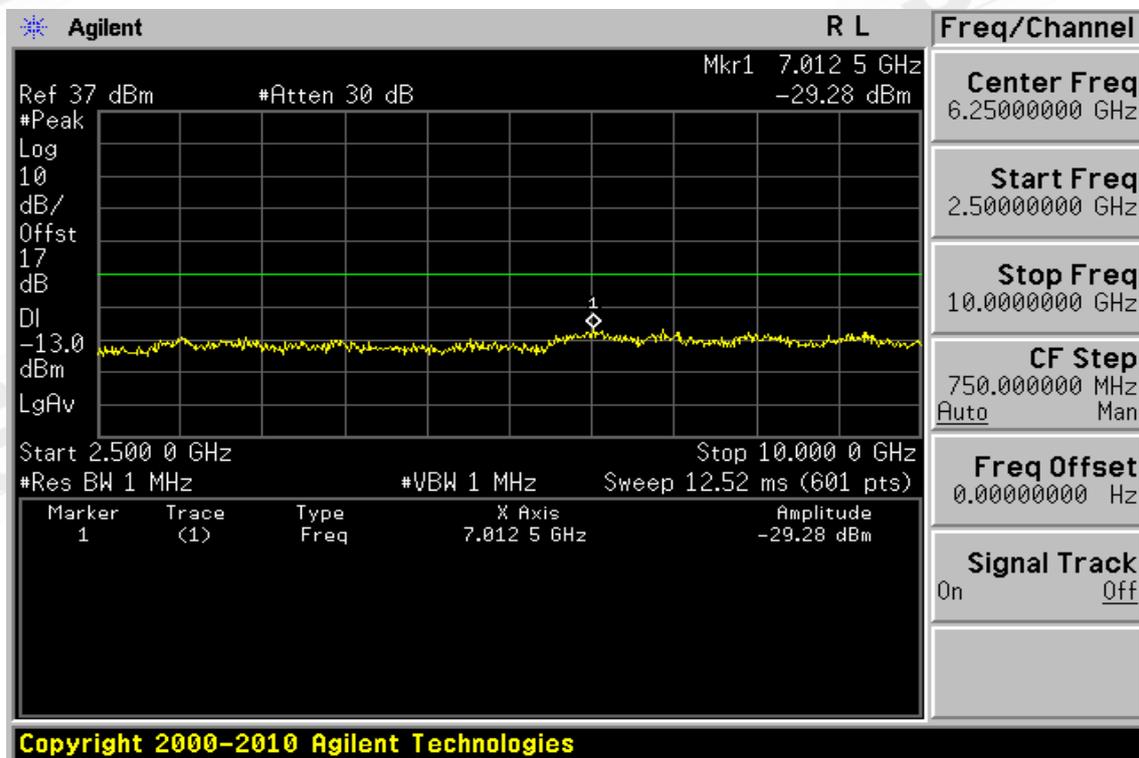
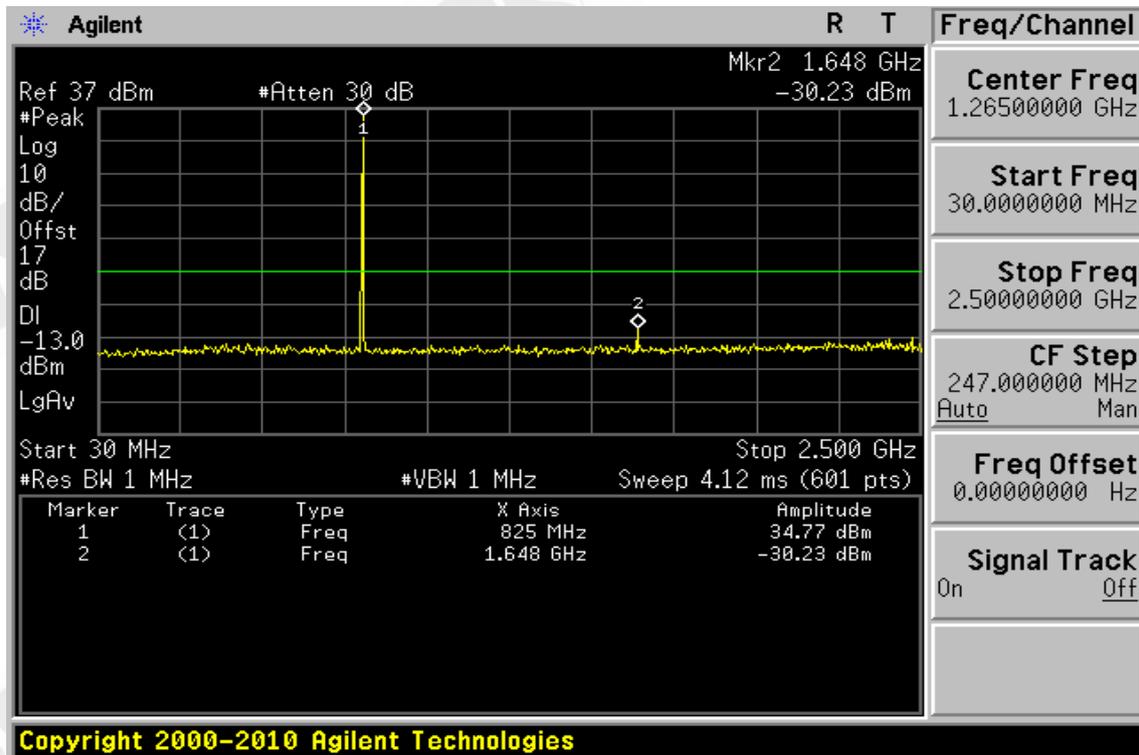
| Freq. MHz | Reading dBm | Limit dBm | Safe Margin dB |
|--------------|----------------|--------------|----------------------|
| 1849.994 | -16.37 | -13.00 | 3.37 |
| 1910.020 | -19.82 | -13.00 | 6.82 |

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

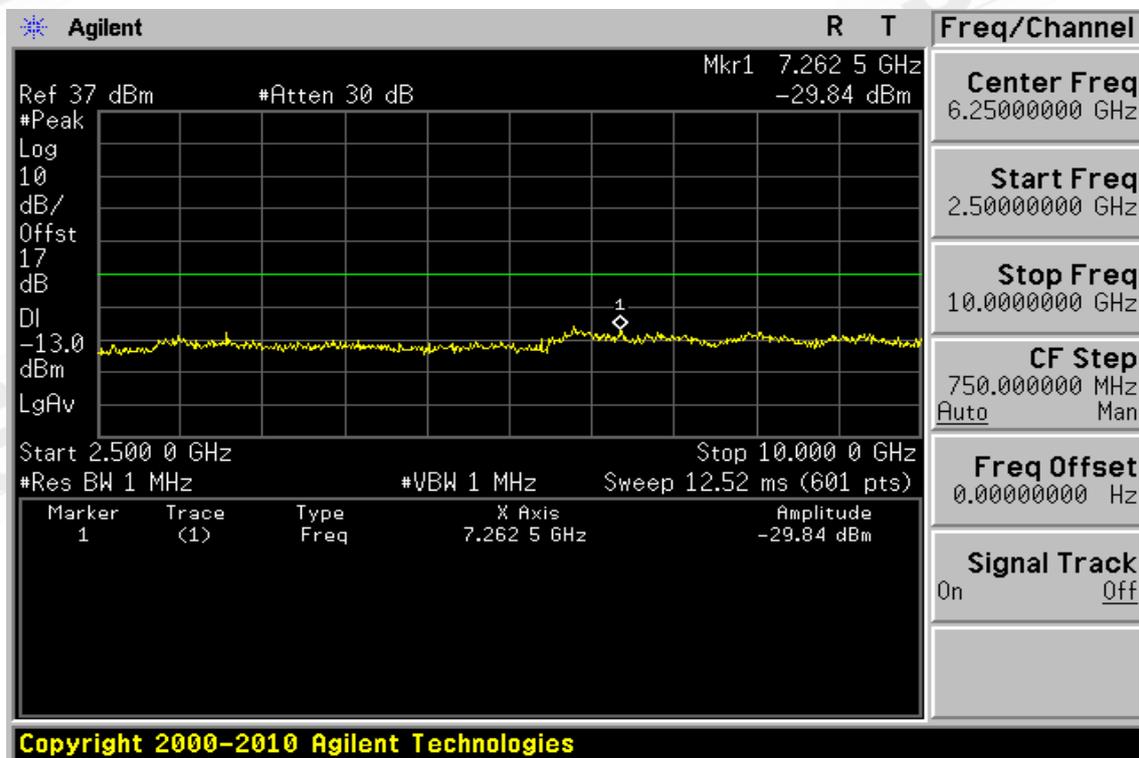
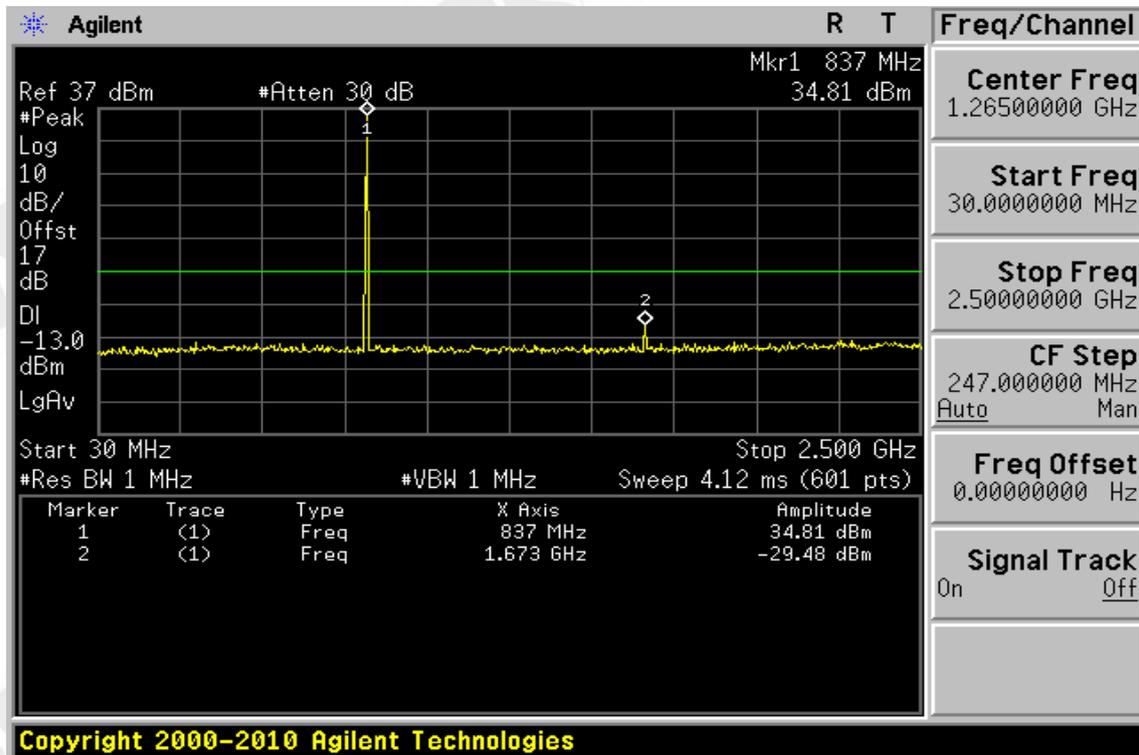


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Figure 9-12: Out of Band emission at antenna terminals – GPRS 850 Channel Mid

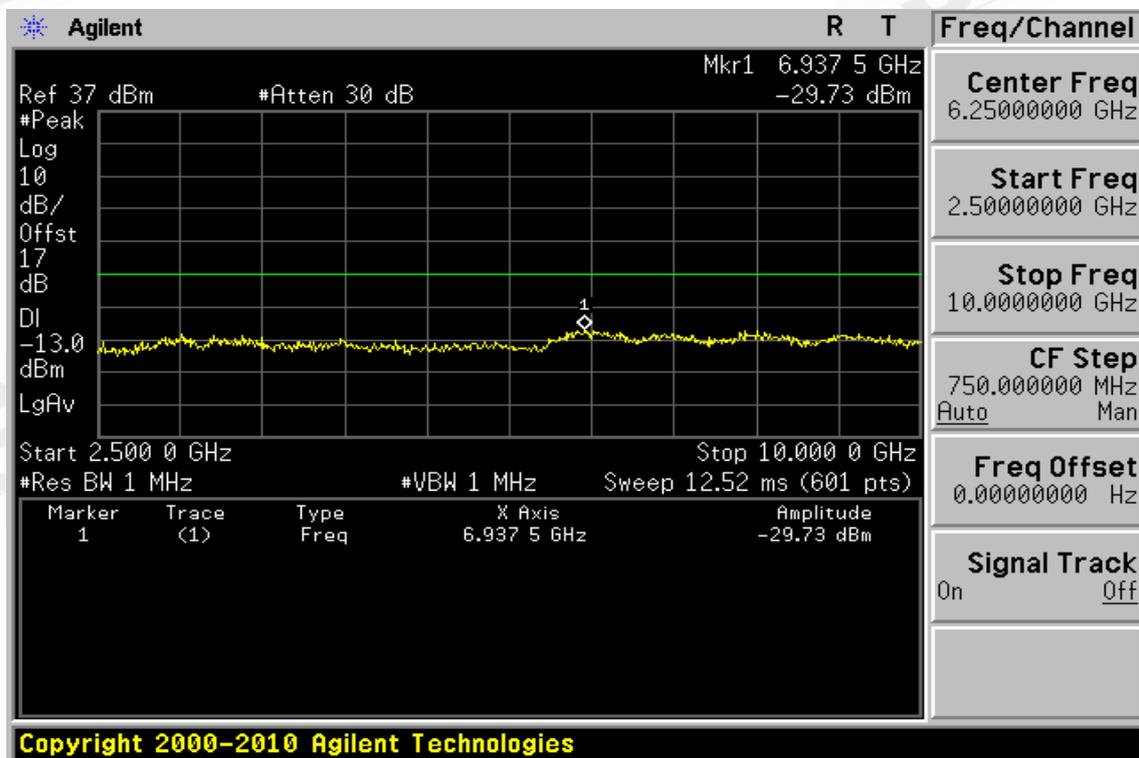
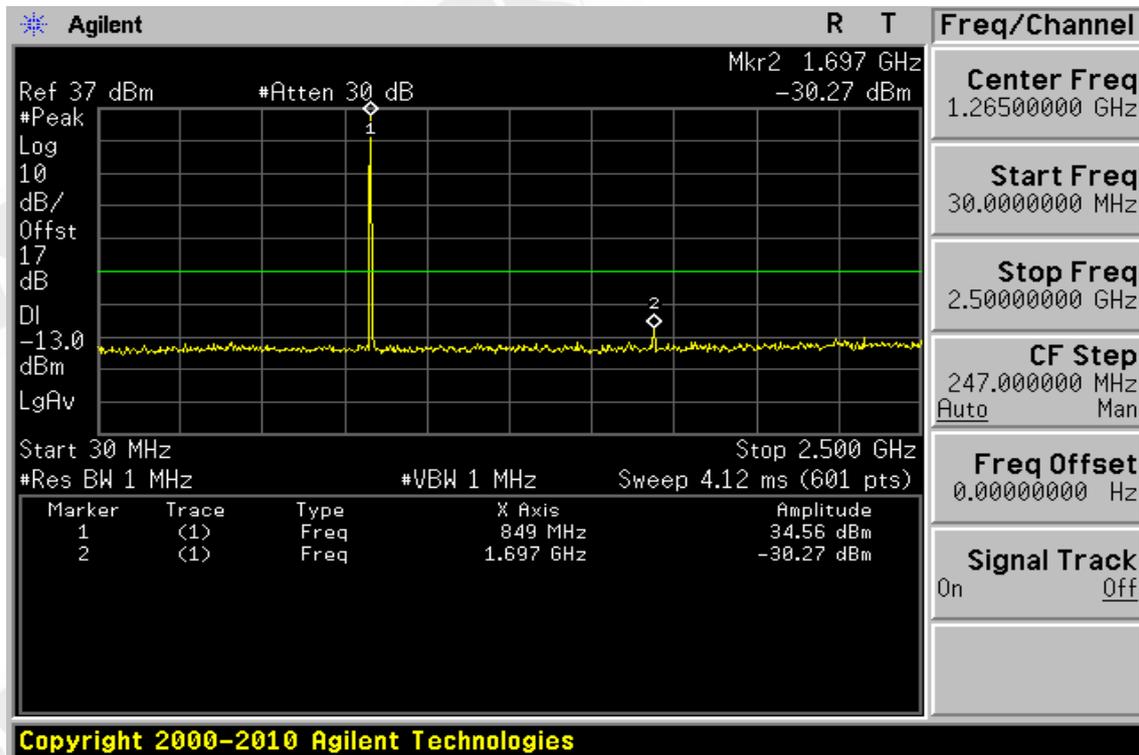


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Figure 9-13: Out of Band emission at antenna terminals – GPRS 850 Channel Highest



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Out of Band emission at antenna terminals – GPRS 850

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 1648.40 | S | -30.23 | -13.00 | 17.23 |
| 2472.60 | H | --- | -13.00 | --- |
| 3296.80 | H | --- | -13.00 | --- |
| 4121.00 | H | --- | -13.00 | --- |
| 4945.20 | H | --- | -13.00 | --- |
| 5769.40 | H | --- | -13.00 | --- |
| 6593.60 | H | --- | -13.00 | --- |
| 7012.50 | S | -29.28 | -13.00 | 16.28 |
| 7417.80 | H | --- | -13.00 | --- |
| 8242.00 | H | --- | -13.00 | --- |

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

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|-------------|--------------|-------------|-----------|----------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 1673.20 | S | -29.48 | -13.00 | 16.48 |
| 2509.80 | H | --- | -13.00 | --- |
| 3346.40 | H | --- | -13.00 | --- |
| 4183.00 | H | --- | -13.00 | --- |
| 5019.60 | H | --- | -13.00 | --- |
| 5856.20 | H | --- | -13.00 | --- |
| 6692.80 | H | --- | -13.00 | --- |
| 7268.50 | S | -29.84 | -13.00 | 16.84 |
| 7529.40 | H | --- | -13.00 | --- |
| 8366.00 | H | --- | -13.00 | --- |

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

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|-------------|--------------|-------------|-----------|----------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 1697.60 | S | -30.27 | -13.00 | 17.27 |
| 2546.40 | H | --- | -13.00 | --- |
| 3395.20 | H | --- | -13.00 | --- |
| 4244.00 | H | --- | -13.00 | --- |
| 5092.80 | H | --- | -13.00 | --- |
| 5941.60 | H | --- | -13.00 | --- |
| 6790.40 | H | --- | -13.00 | --- |
| 6937.50 | S | -29.73 | -13.00 | 16.73 |
| 7639.20 | H | --- | -13.00 | --- |
| 8488.00 | H | --- | -13.00 | --- |

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

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

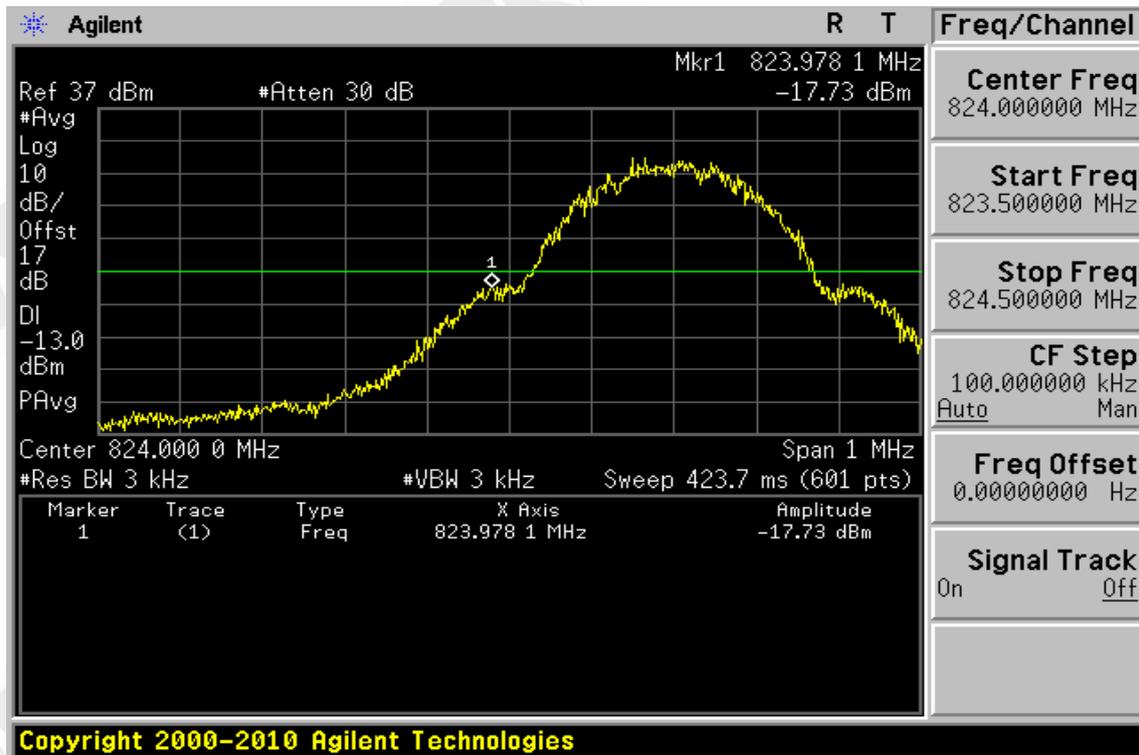
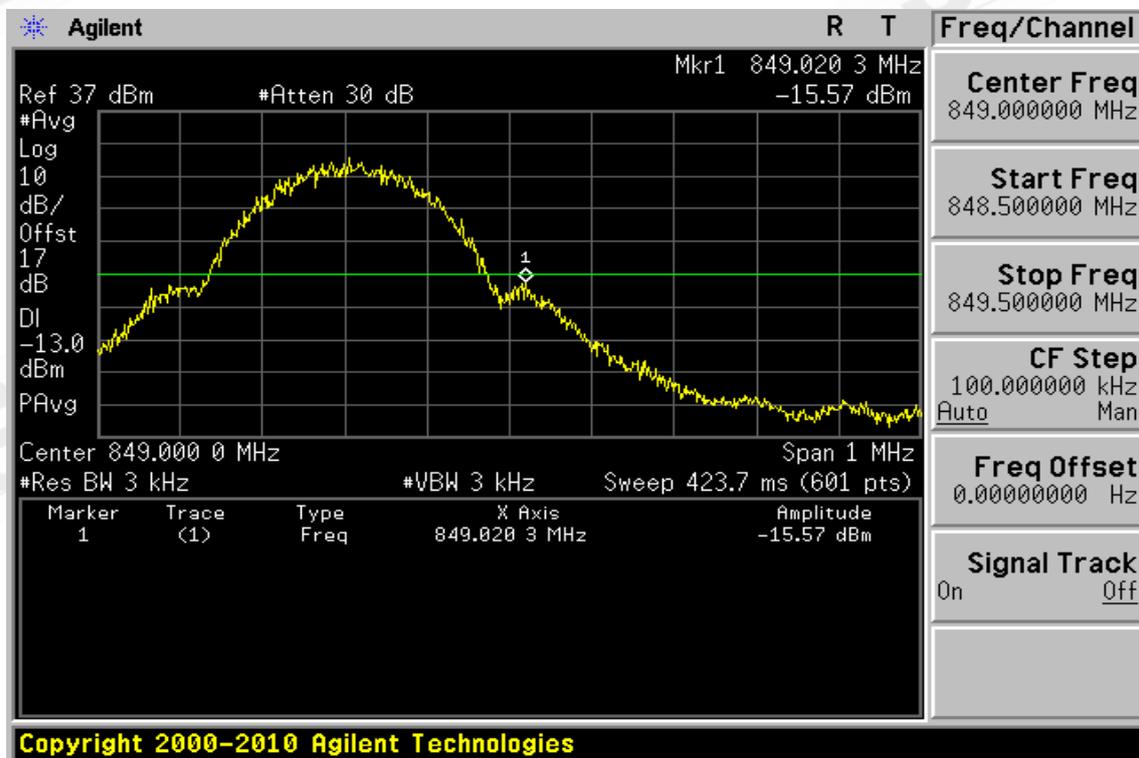


Figure 9-15: Band edge emission at antenna terminals – GPRS 850 Channel Highest



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

Test Mode GPRS 850 Engineer :Jimmy

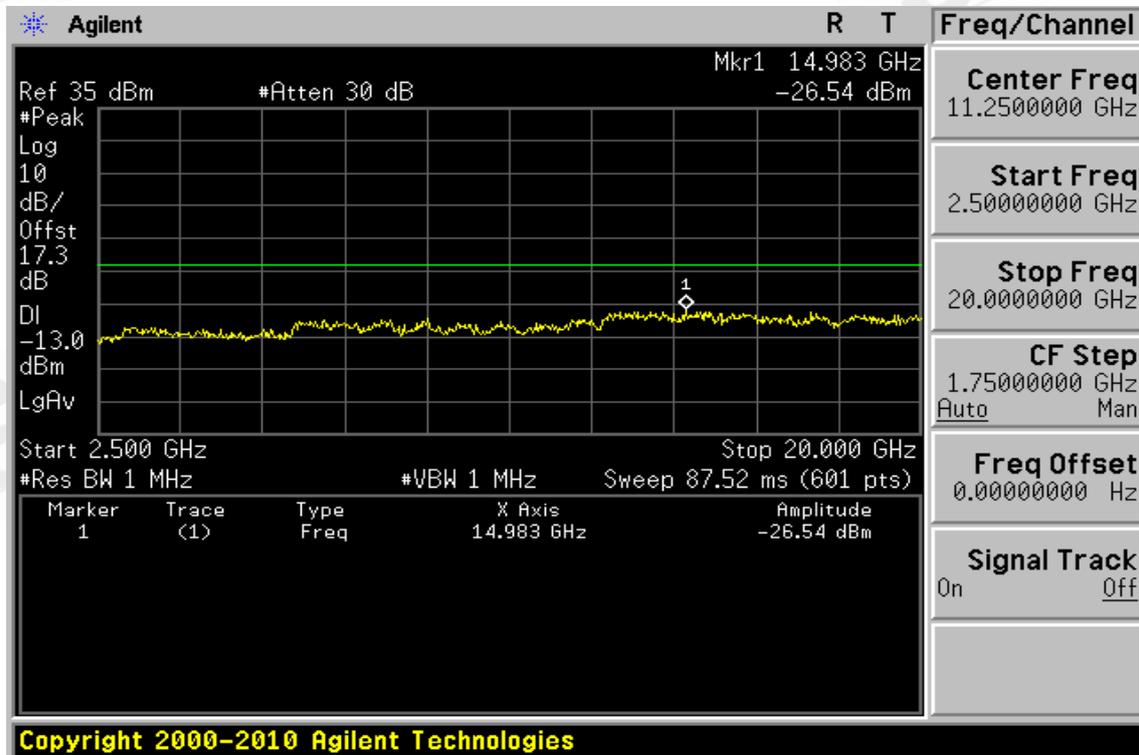
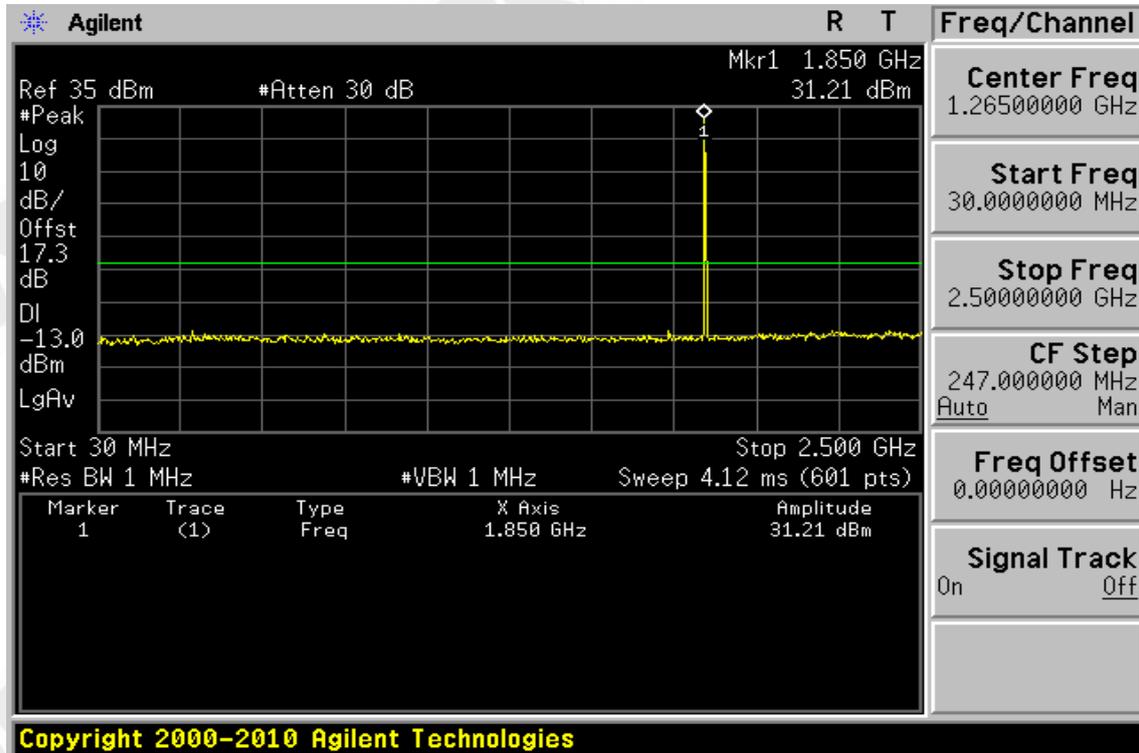
| Freq. MHz | Reading dBm | Limit dBm | Safe Margin dB |
|--------------|----------------|--------------|----------------------|
| 823.978 | -17.73 | -13.00 | 4.73 |
| 849.020 | -15.57 | -13.00 | 2.57 |

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

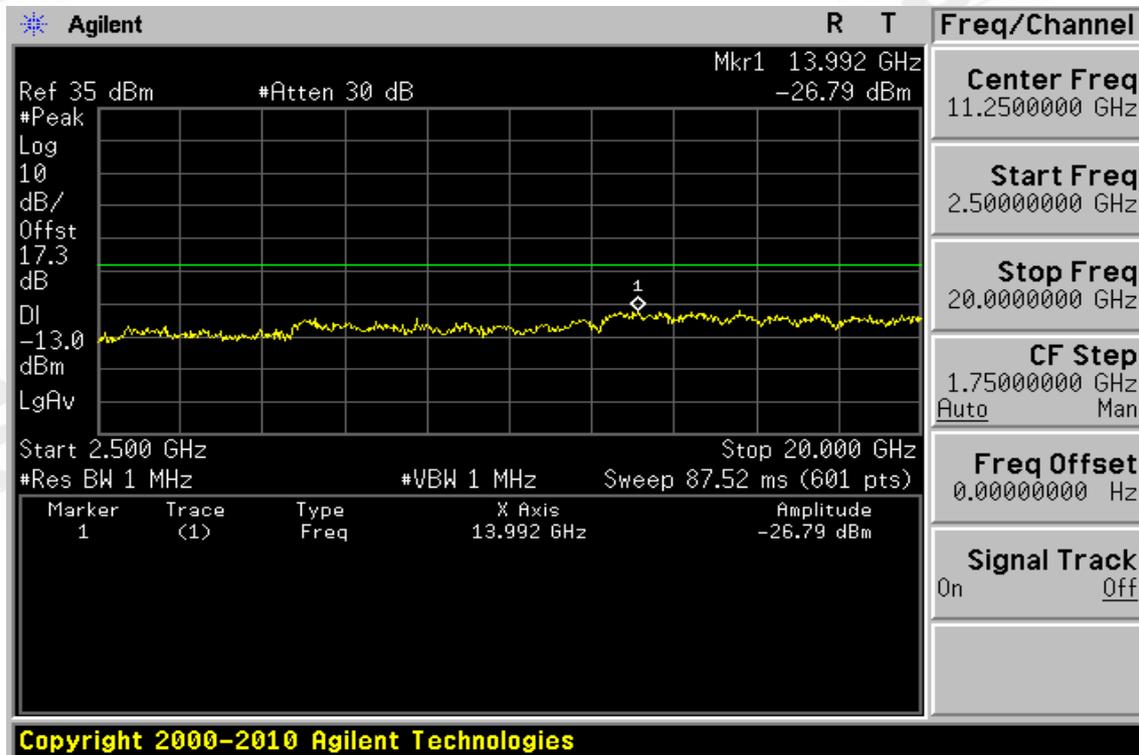
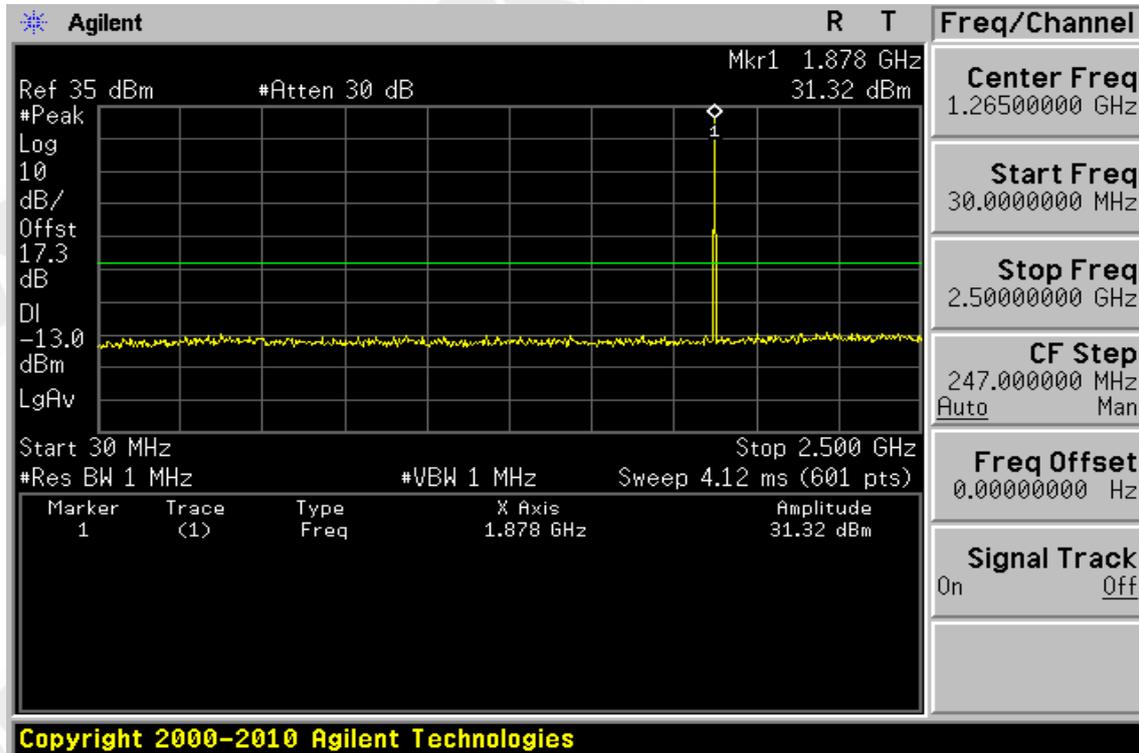


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Figure 9-17: Out of Band emission at antenna terminals – GPRS 1900 Channel Mid

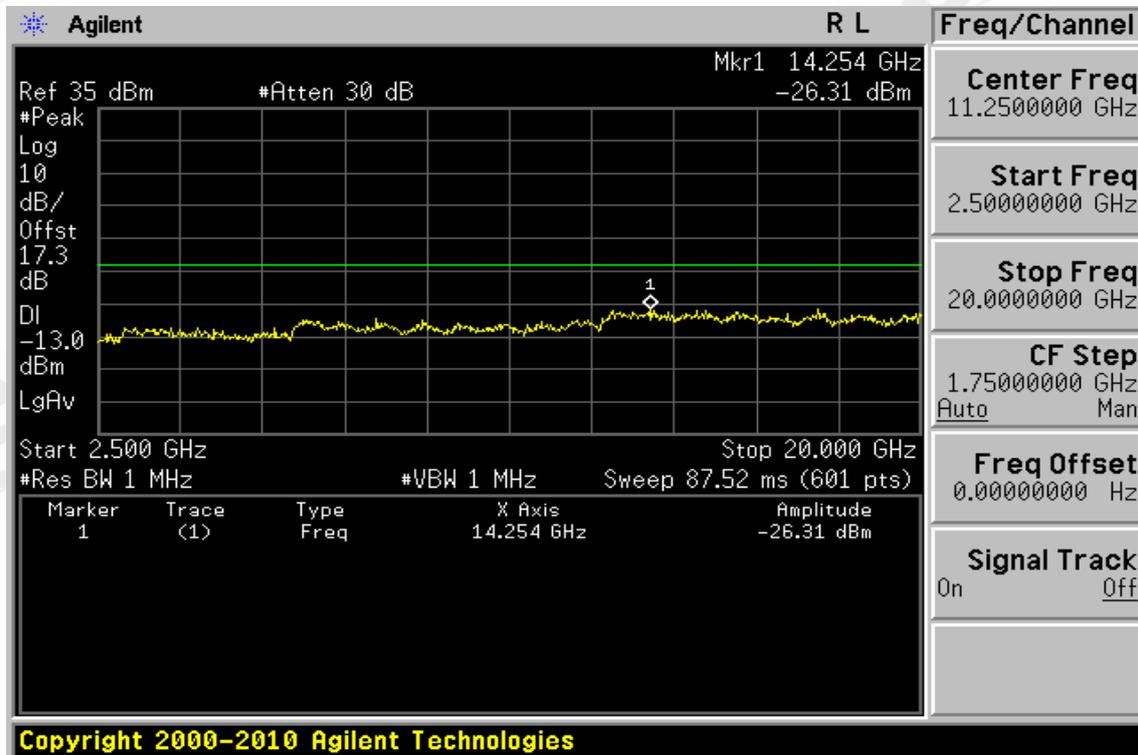
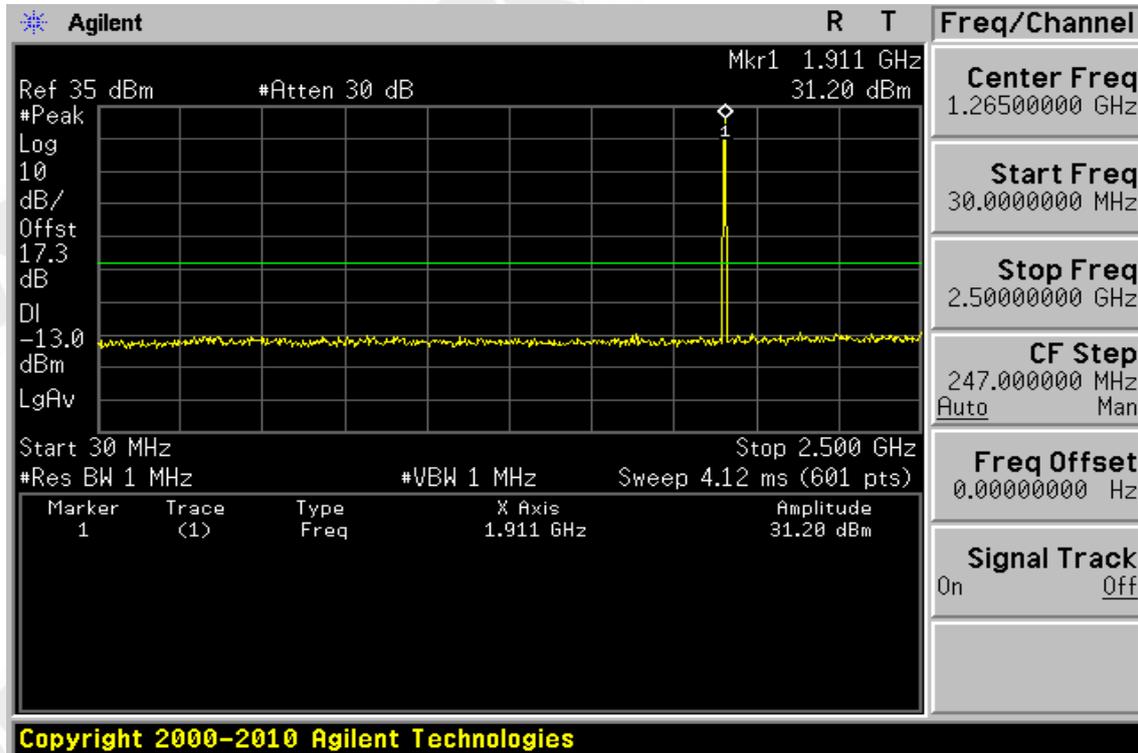


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Figure 9-18: Out of Band emission at antenna terminals – GPRS 1900 Channel Highest



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Out of Band emission at antenna terminals – GPRS 1900

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 3700.40 | H | --- | -13.00 | --- |
| 5550.60 | H | --- | -13.00 | --- |
| 7400.80 | H | --- | -13.00 | --- |
| 9251.00 | H | --- | -13.00 | --- |
| 11101.20 | H | --- | -13.00 | --- |
| 12951.40 | H | --- | -13.00 | --- |
| 14801.60 | H | --- | -13.00 | --- |
| 14983.00 | S | -26.54 | -13.00 | 13.54 |
| 16651.80 | H | --- | -13.00 | --- |
| 18502.00 | H | --- | -13.00 | --- |

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

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 3760.00 | H | --- | -13.00 | --- |
| 5640.00 | H | --- | -13.00 | --- |
| 7520.00 | H | --- | -13.00 | --- |
| 9400.00 | H | --- | -13.00 | --- |
| 11280.00 | H | --- | -13.00 | --- |
| 13160.00 | H | --- | -13.00 | --- |
| 13992.00 | S | -26.79 | -13.00 | 13.79 |
| 15040.00 | H | --- | -13.00 | --- |
| 16920.00 | H | --- | -13.00 | --- |
| 18800.00 | H | --- | -13.00 | --- |

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

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 3819.60 | H | --- | -13.00 | --- |
| 5729.40 | H | --- | -13.00 | --- |
| 7639.20 | H | --- | -13.00 | --- |
| 9549.00 | H | --- | -13.00 | --- |
| 11458.80 | H | --- | -13.00 | --- |
| 13368.60 | H | --- | -13.00 | --- |
| 14254.00 | S | -26.31 | -13.00 | 13.31 |
| 15278.40 | H | --- | -13.00 | --- |
| 17188.20 | H | --- | -13.00 | --- |
| 19098.00 | H | --- | -13.00 | --- |

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

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

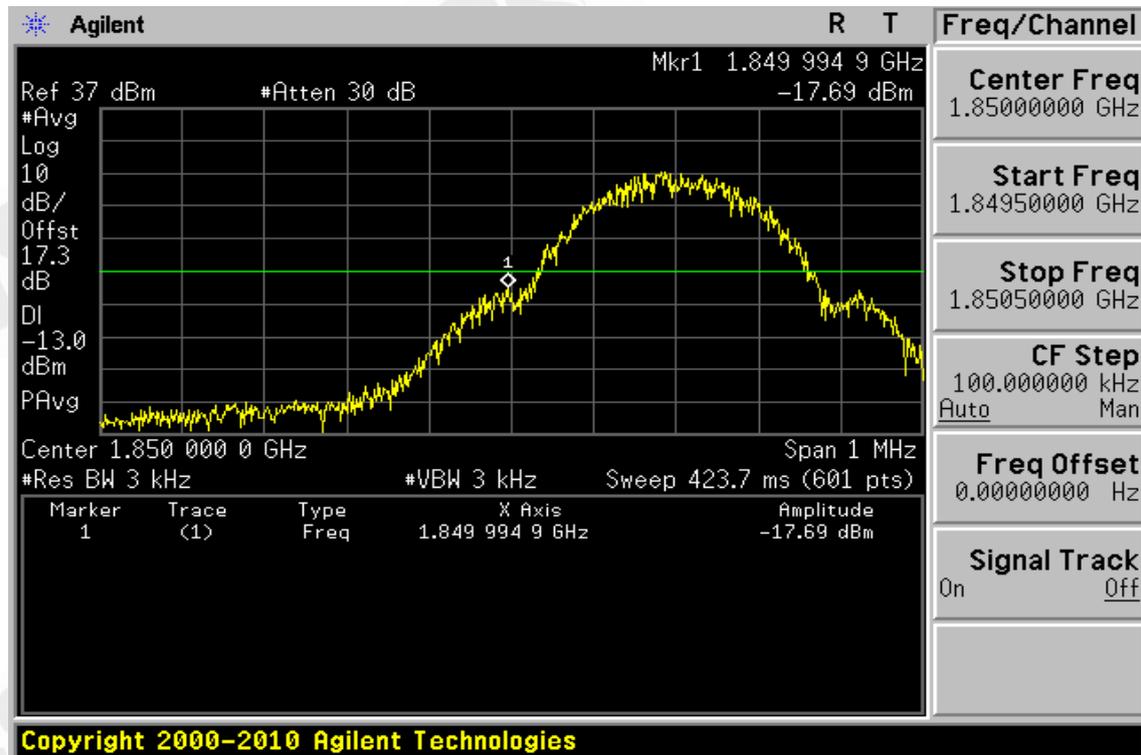
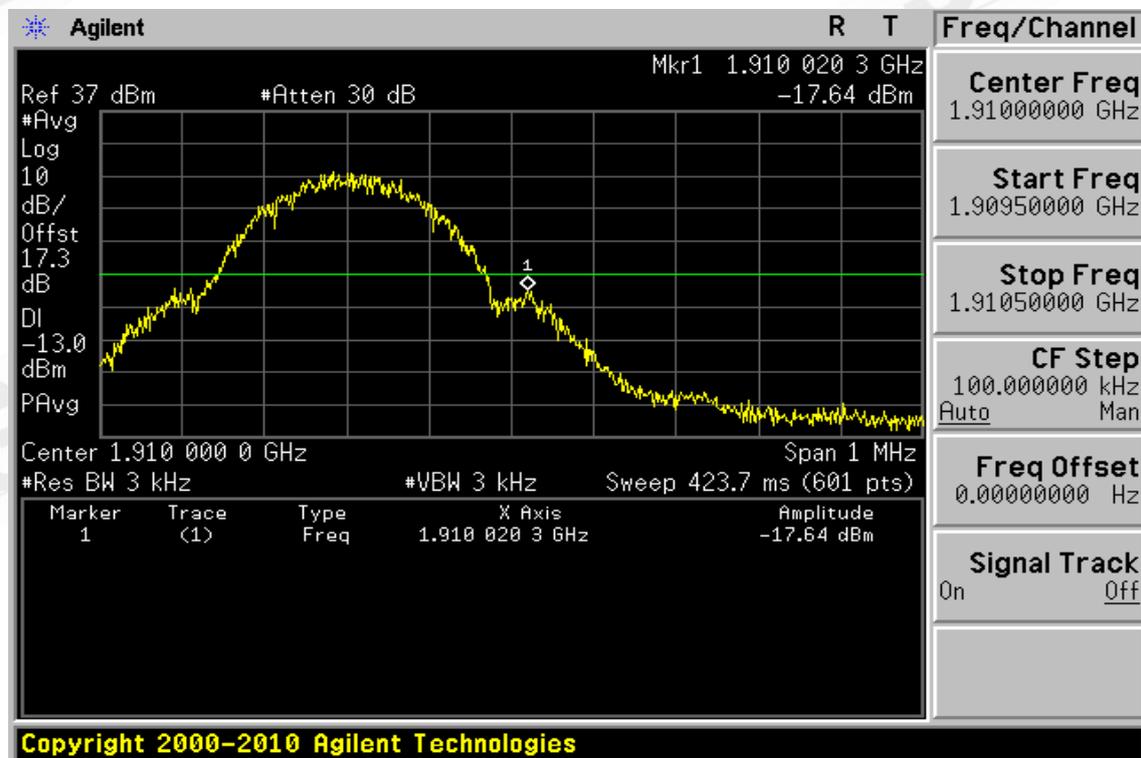


Figure 9-20: Band edge emission at antenna terminals – GPRS 1900 Channel Highest

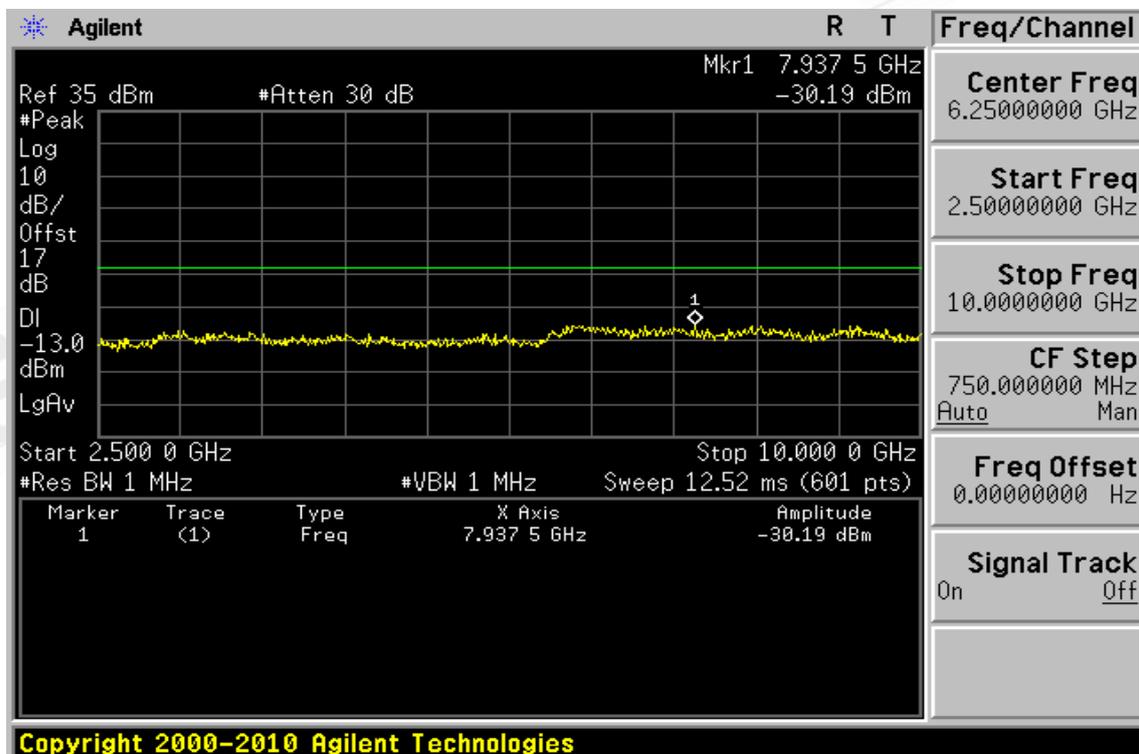
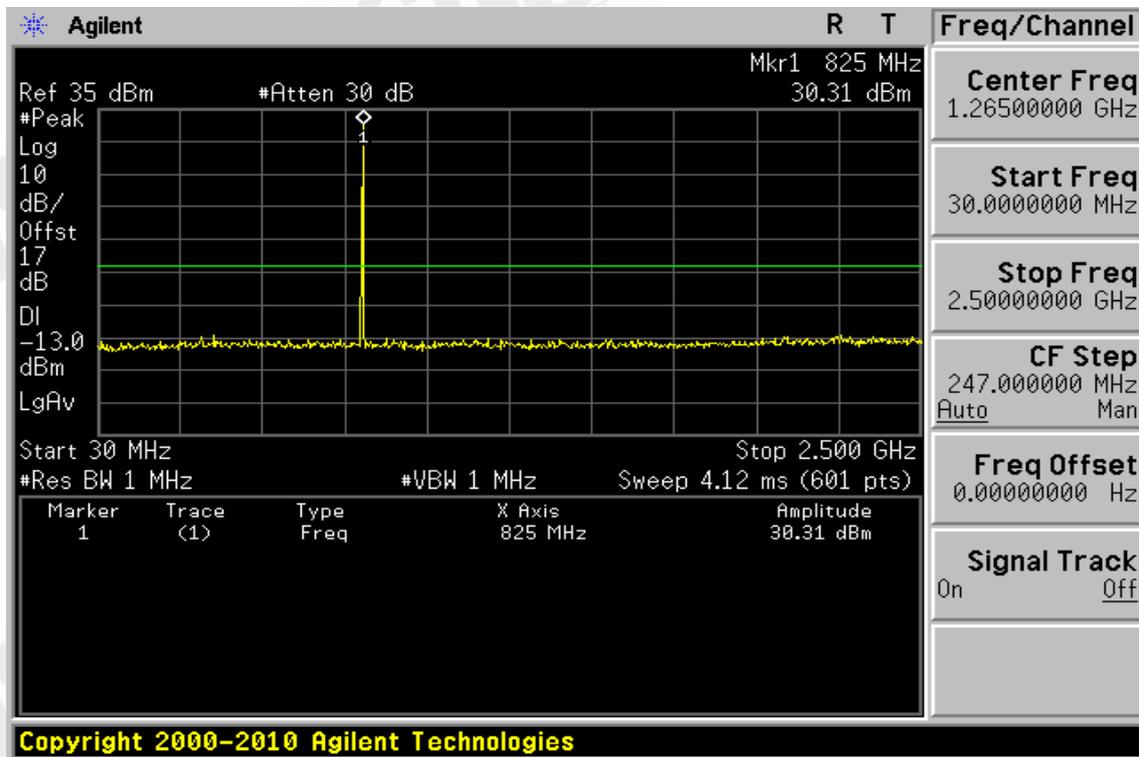


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Figure 9-21: Out of Band emission at antenna terminals – EDGE 850 Channel Lowest

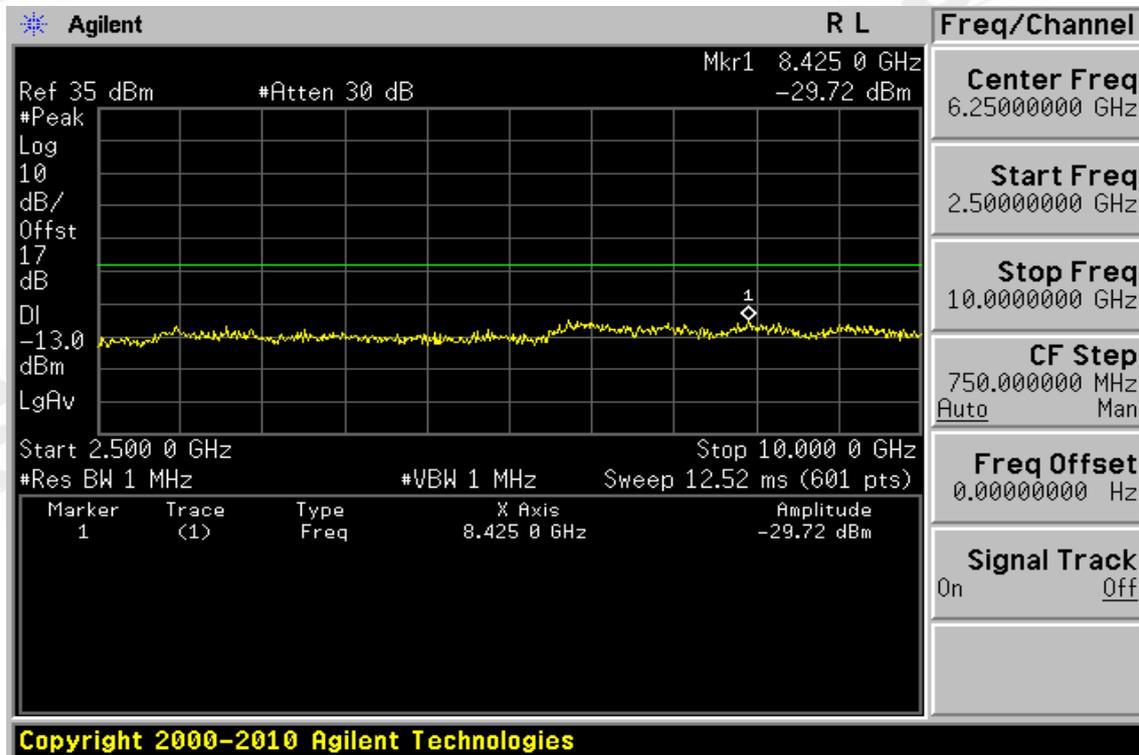
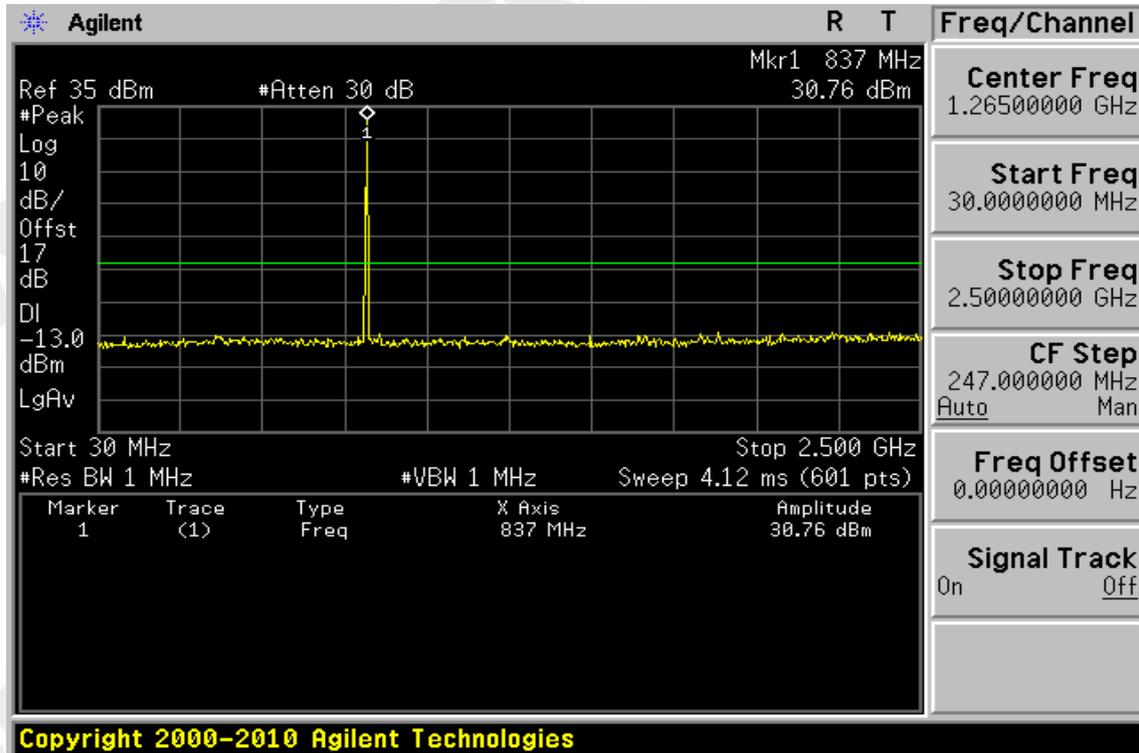


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Figure 9-22: Out of Band emission at antenna terminals – EDGE 850 Channel Mid

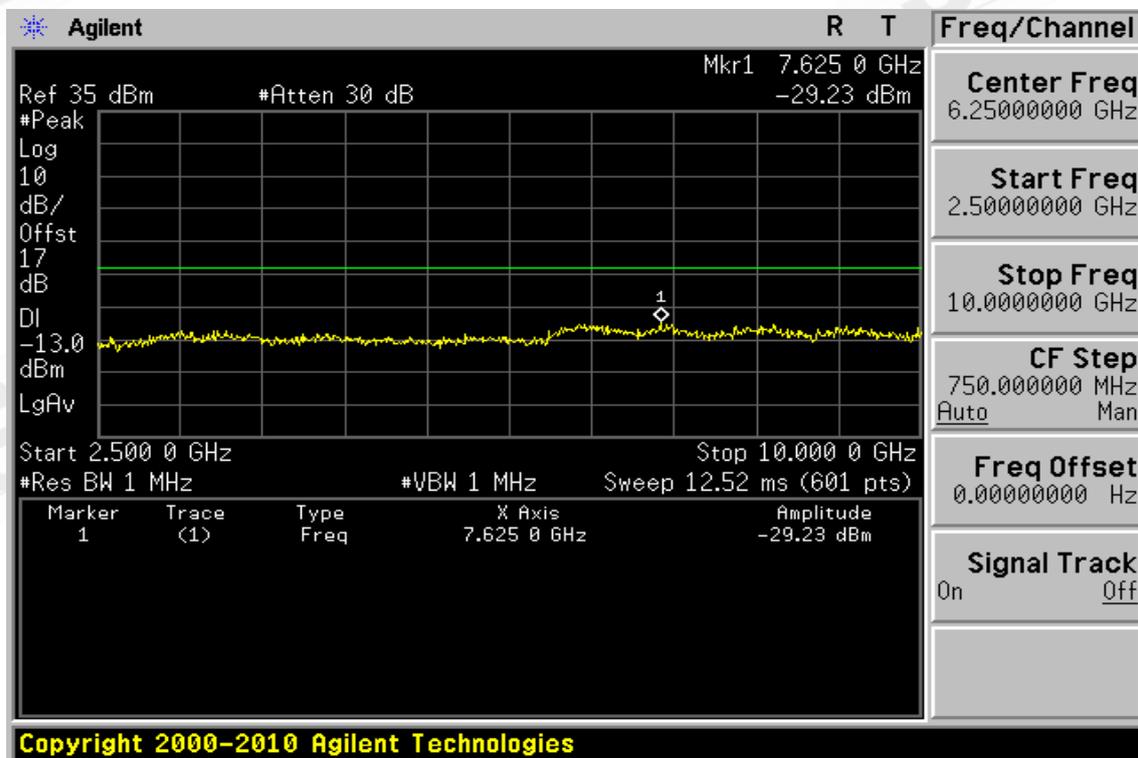
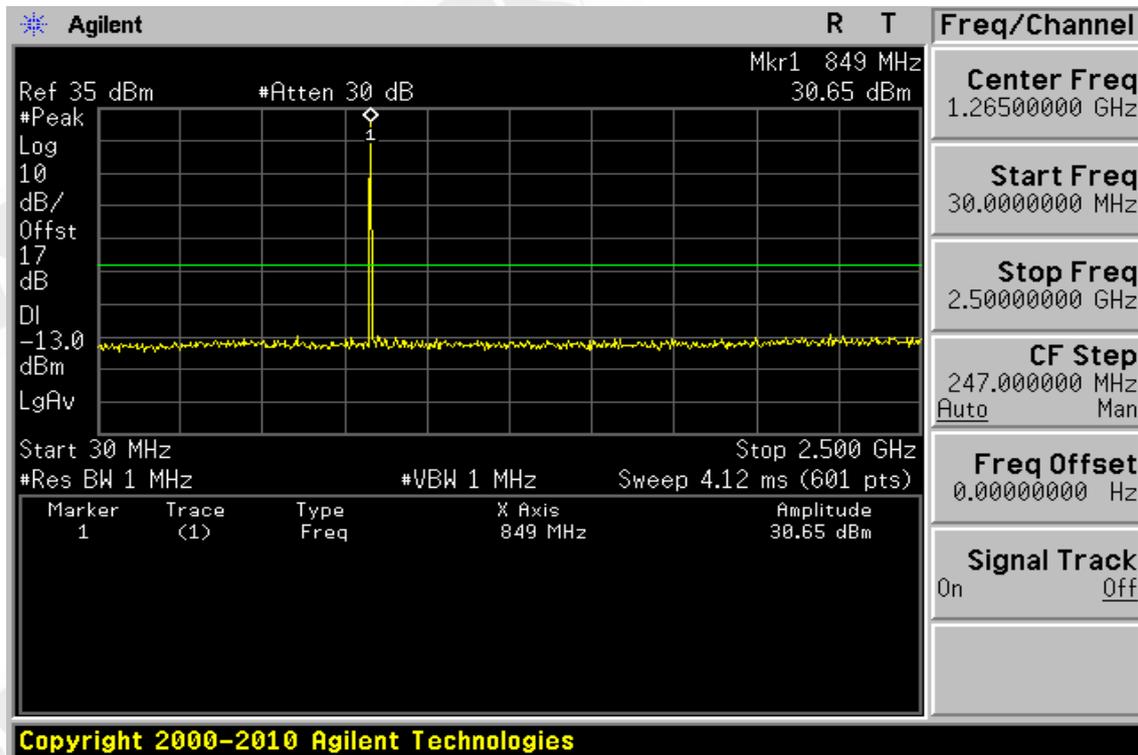


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Figure 9-23: Out of Band emission at antenna terminals – EDGE 850 Channel Highest



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Out of Band emission at antenna terminals – EDGE 850

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 1648.40 | H | --- | -13.00 | --- |
| 2472.60 | H | --- | -13.00 | --- |
| 3296.80 | H | --- | -13.00 | --- |
| 4121.00 | H | --- | -13.00 | --- |
| 4945.20 | H | --- | -13.00 | --- |
| 5769.40 | H | --- | -13.00 | --- |
| 6593.60 | H | --- | -13.00 | --- |
| 7417.80 | H | --- | -13.00 | --- |
| 7937.50 | S | -30.19 | -13.00 | 17.19 |
| 8242.00 | H | --- | -13.00 | --- |

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

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 1673.20 | H | --- | -13.00 | --- |
| 2509.80 | H | --- | -13.00 | --- |
| 3346.40 | H | --- | -13.00 | --- |
| 4183.00 | H | --- | -13.00 | --- |
| 5019.60 | H | --- | -13.00 | --- |
| 6692.80 | H | --- | -13.00 | --- |
| 7529.40 | H | --- | -13.00 | --- |
| 8366.00 | H | --- | -13.00 | --- |
| 8425.00 | S | -29.72 | -13.00 | 16.72 |

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

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|-------------|--------------|-------------|-----------|----------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 1697.60 | H | --- | -13.00 | --- |
| 2546.40 | H | --- | -13.00 | --- |
| 3395.20 | H | --- | -13.00 | --- |
| 4244.00 | H | --- | -13.00 | --- |
| 5092.80 | H | --- | -13.00 | --- |
| 5941.60 | H | --- | -13.00 | --- |
| 6790.40 | H | --- | -13.00 | --- |
| 7625.00 | S | -29.23 | -13.00 | 16.23 |
| 7639.20 | H | --- | -13.00 | --- |
| 8488.00 | H | --- | -13.00 | --- |

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

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

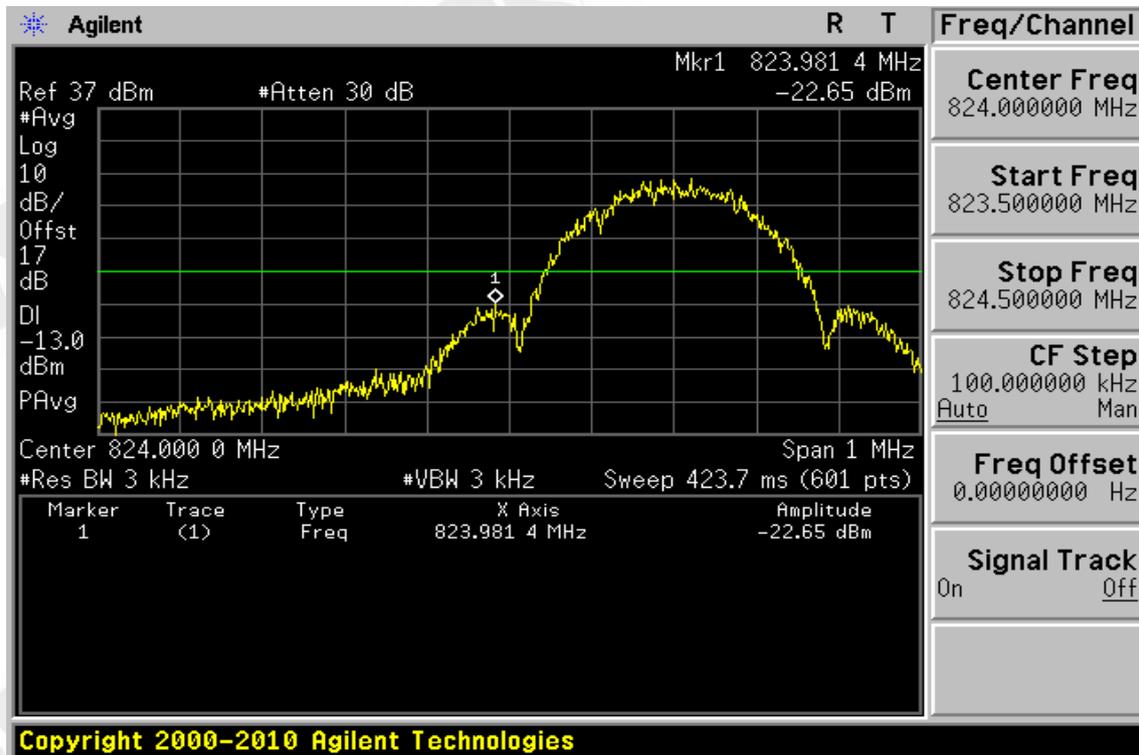
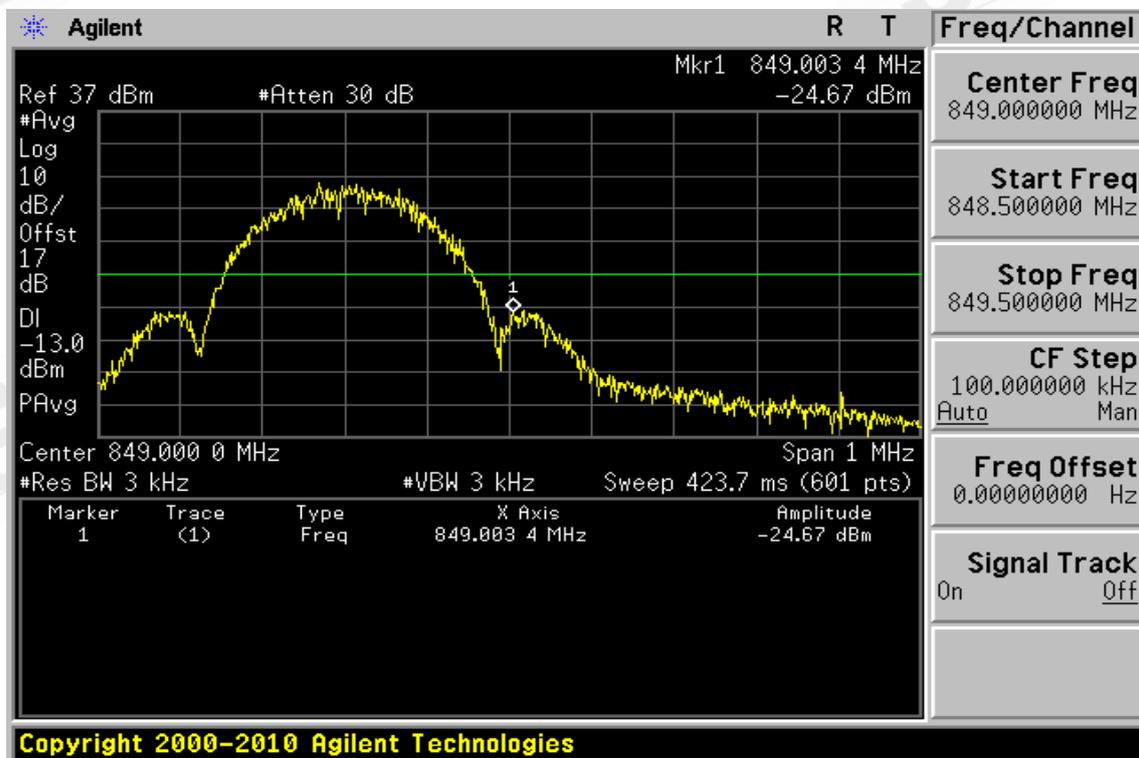


Figure 9-25: Band edge emission at antenna terminals – EDGE 850 Channel Highest



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

Test Mode EDGE 850 Engineer :Jimmy

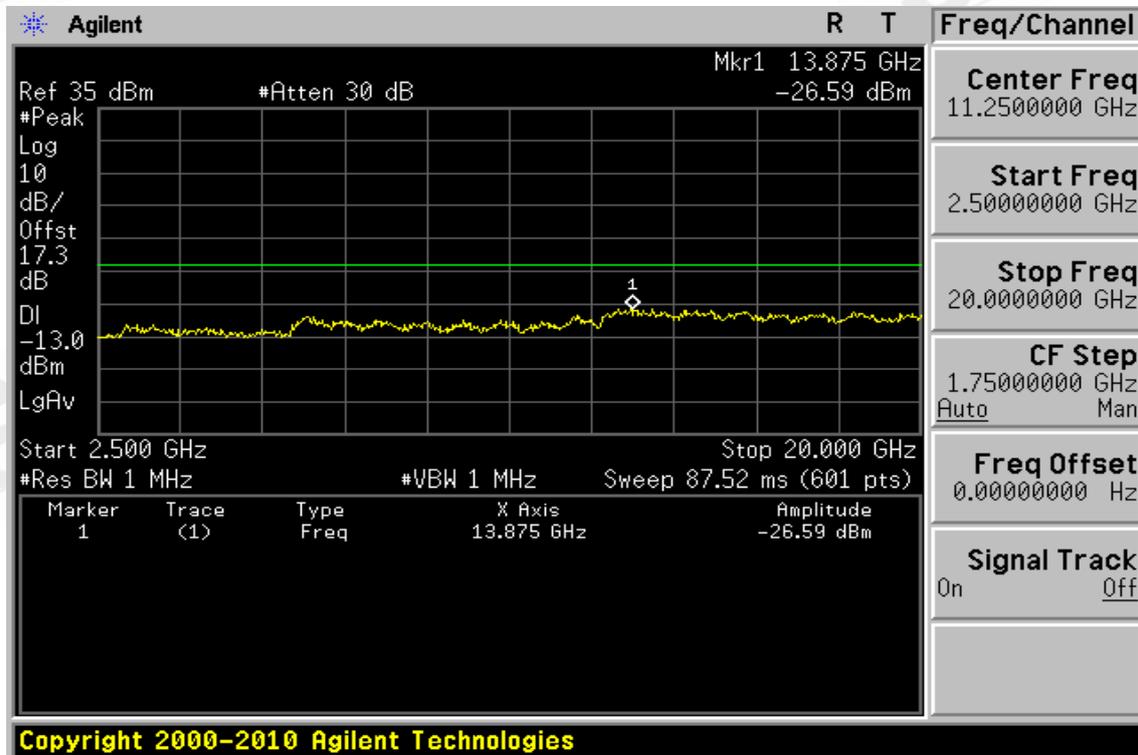
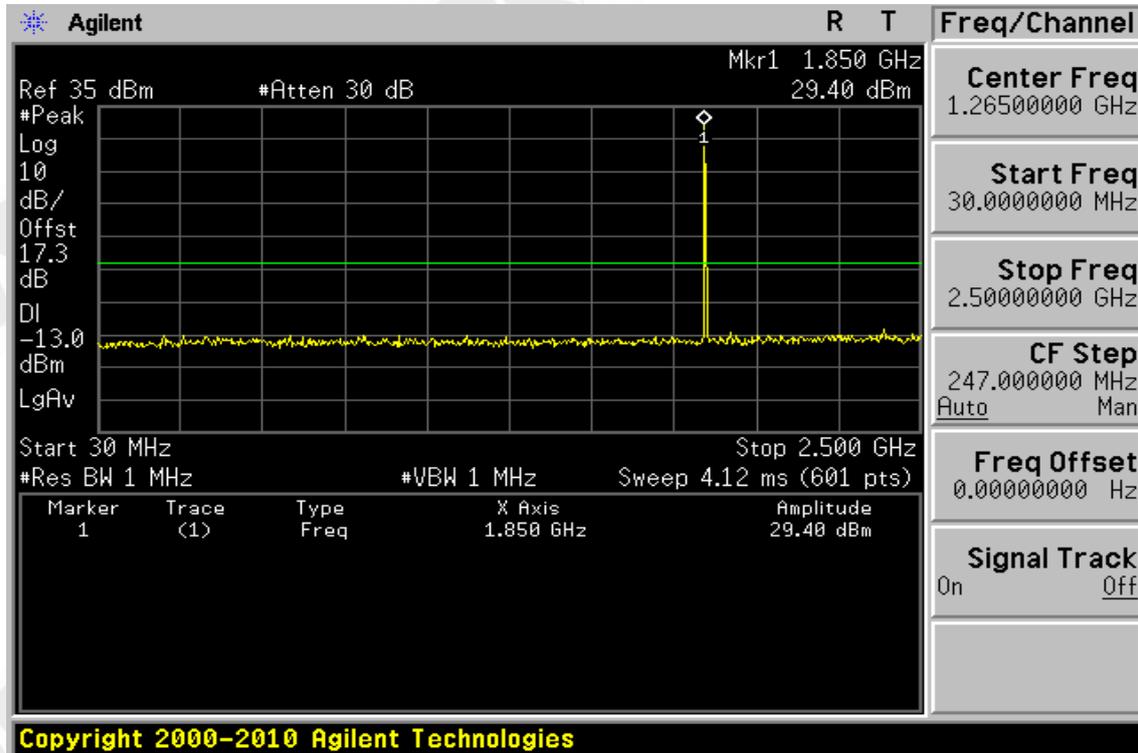
| Freq. MHz | Reading dBm | Limit dBm | Safe Margin dB |
|--------------|----------------|--------------|----------------------|
| 823.981 | -22.65 | -13.00 | 9.65 |
| 849.003 | -24.67 | -13.00 | 11.67 |

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

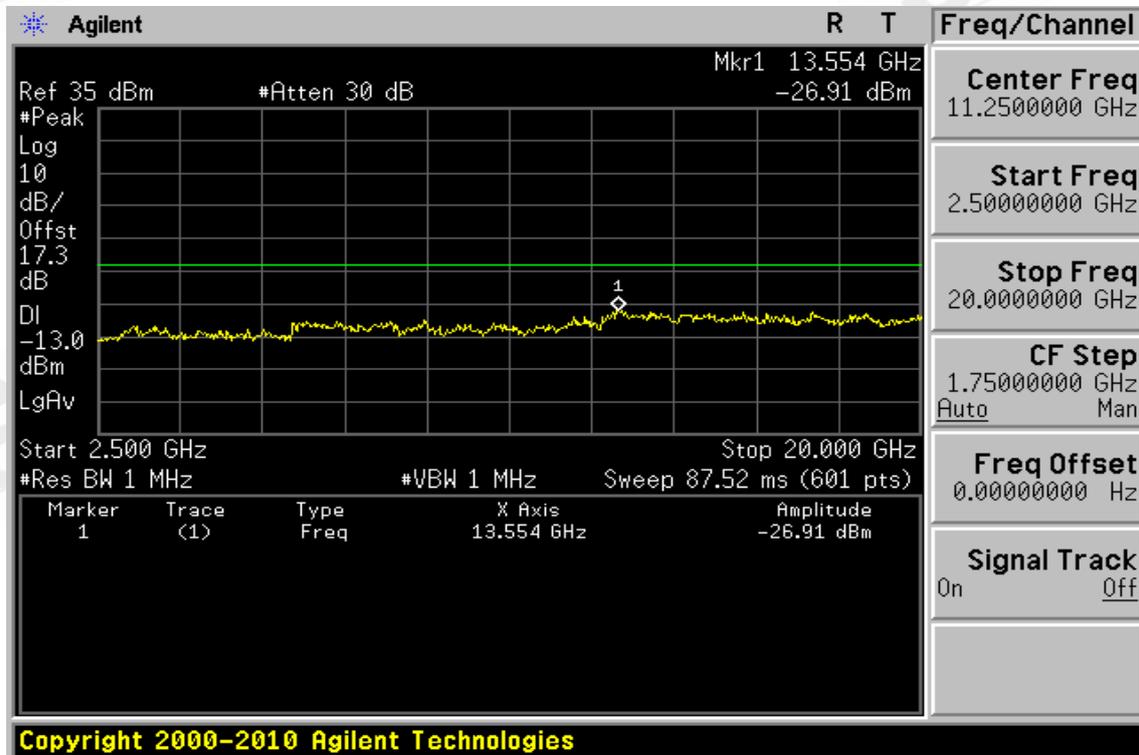
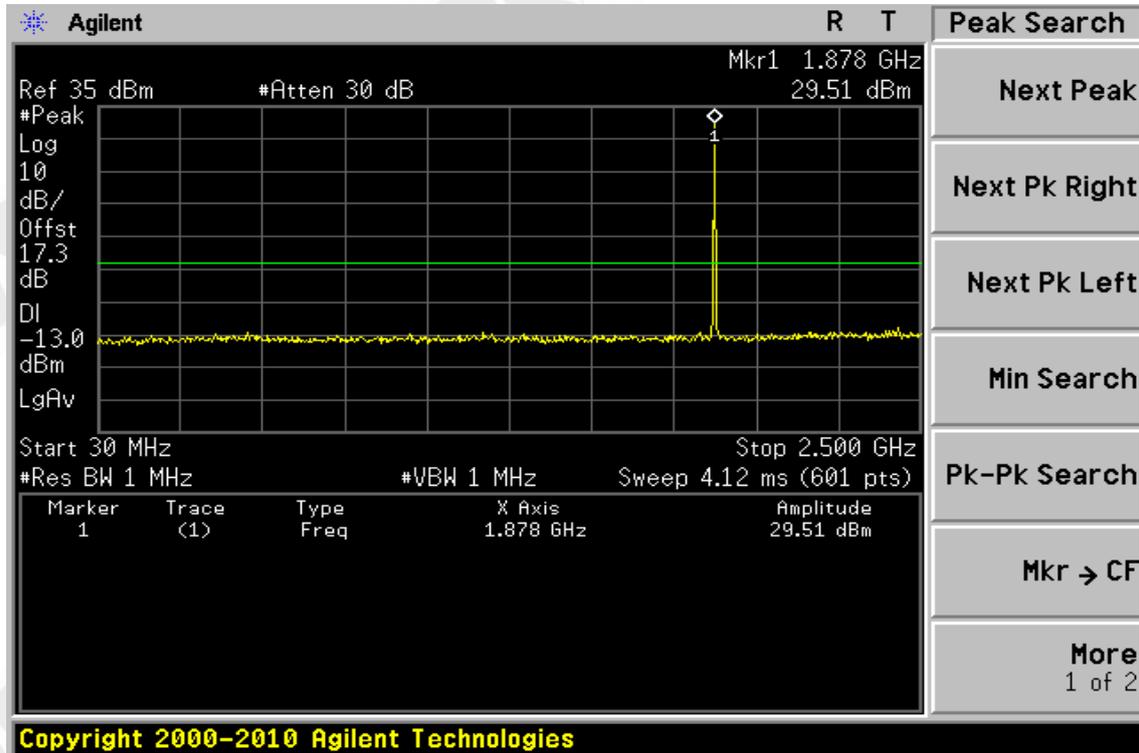


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Figure 9-27: Out of Band emission at antenna terminals – EDGE 1900 Channel Mid

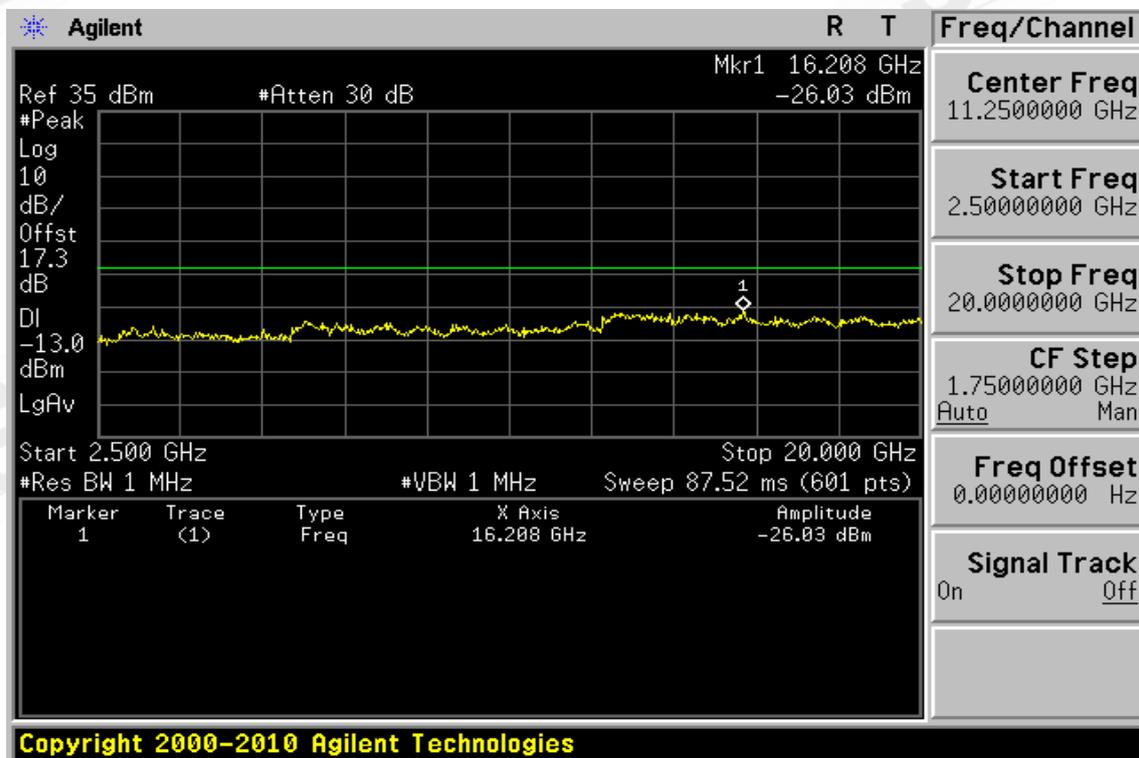
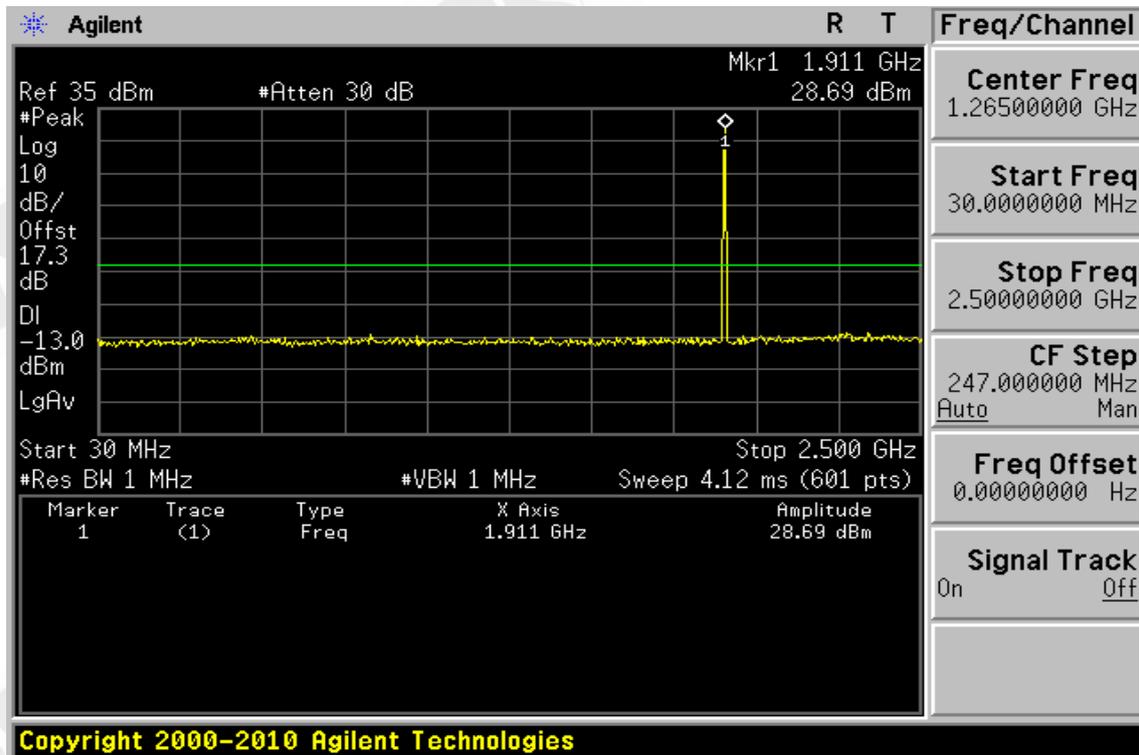


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Figure 9-28: Out of Band emission at antenna terminals – EDGE 1900 Channel Highest



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Out of Band emission at antenna terminals – EDGE 1900

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|-------------|--------------|-------------|-----------|----------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 3700.40 | H | --- | -13.00 | --- |
| 5550.60 | H | --- | -13.00 | --- |
| 7400.80 | H | --- | -13.00 | --- |
| 9251.00 | H | --- | -13.00 | --- |
| 11101.20 | H | --- | -13.00 | --- |
| 12951.40 | H | --- | -13.00 | --- |
| 13875.00 | S | -26.59 | -13.00 | 13.59 |
| 14801.60 | H | --- | -13.00 | --- |
| 16651.80 | H | --- | -13.00 | --- |
| 18502.00 | H | --- | -13.00 | --- |

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

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 3760.00 | H | --- | -13.00 | --- |
| 5640.00 | H | --- | -13.00 | --- |
| 7520.00 | H | --- | -13.00 | --- |
| 9400.00 | H | --- | -13.00 | --- |
| 11280.00 | H | --- | -13.00 | --- |
| 13160.00 | H | --- | -13.00 | --- |
| 13554.00 | S | -26.91 | -13.00 | 13.91 |
| 15040.00 | H | --- | -13.00 | --- |
| 16920.00 | H | --- | -13.00 | --- |
| 18800.00 | H | --- | -13.00 | --- |

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

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 3819.60 | H | --- | -13.00 | --- |
| 5729.40 | H | --- | -13.00 | --- |
| 7639.20 | H | --- | -13.00 | --- |
| 9549.00 | H | --- | -13.00 | --- |
| 11458.80 | H | --- | -13.00 | --- |
| 13368.60 | H | --- | -13.00 | --- |
| 15278.40 | H | --- | -13.00 | --- |
| 16208.00 | S | -26.03 | -13.00 | 13.03 |
| 17188.20 | H | --- | -13.00 | --- |
| 19098.00 | H | --- | -13.00 | --- |

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

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

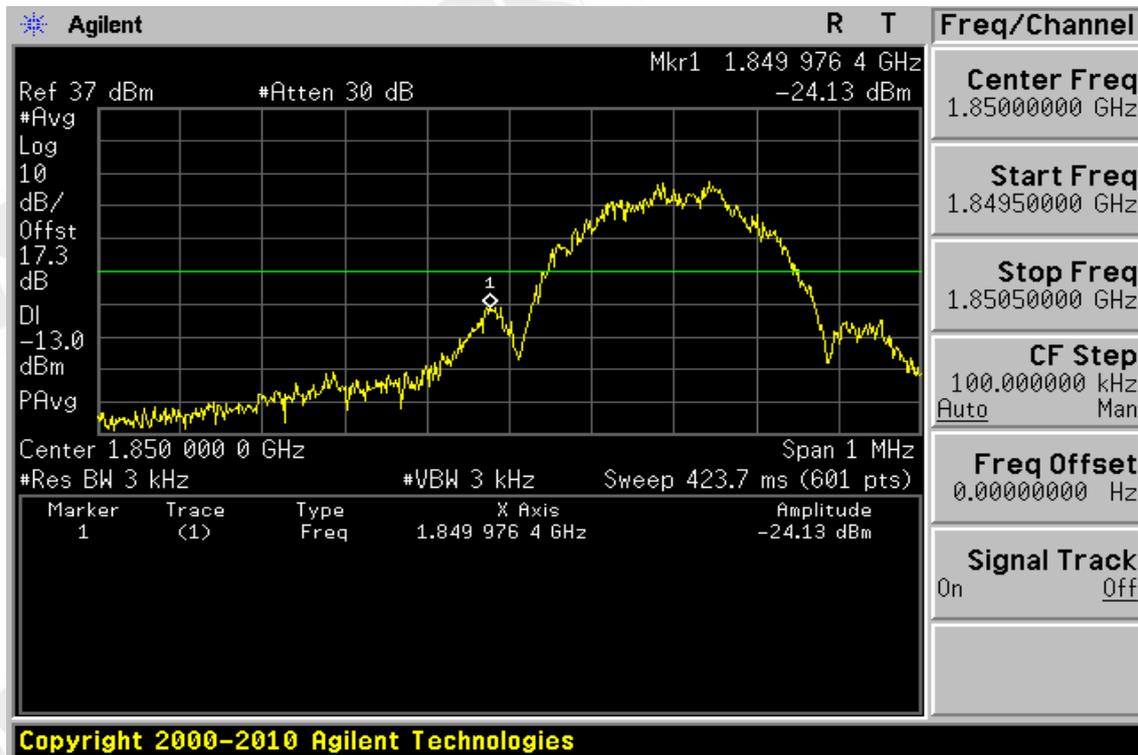
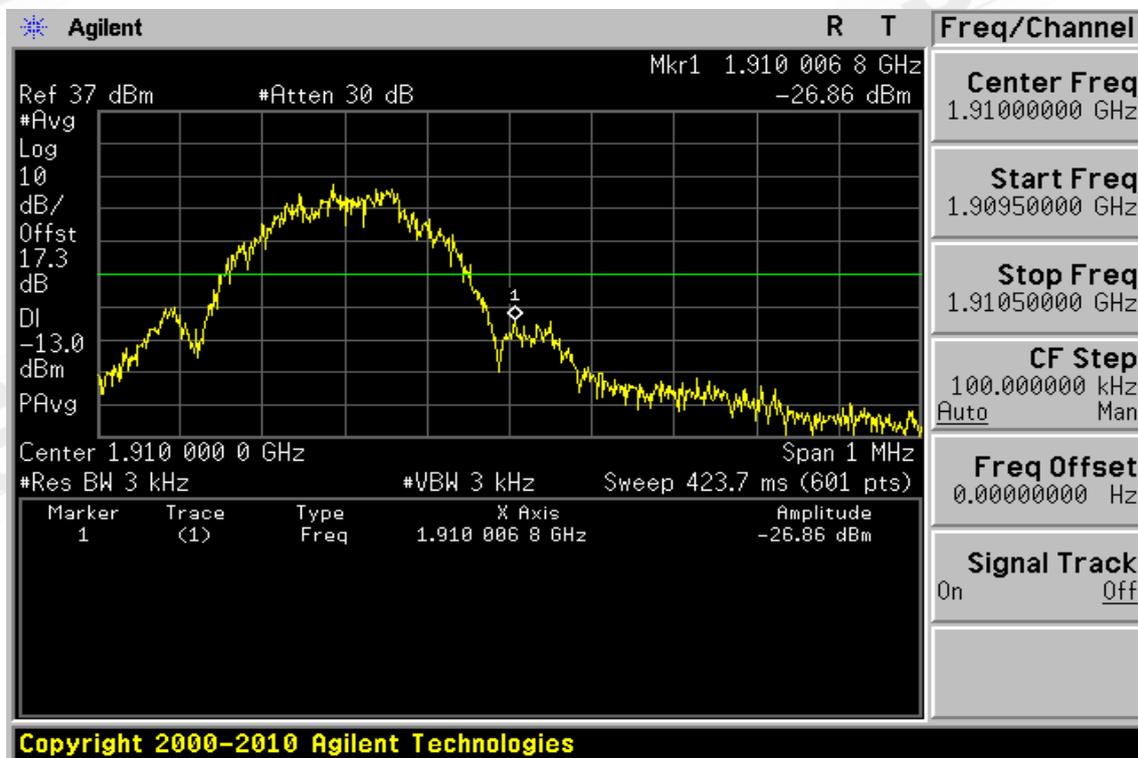


Figure 9-30: Band edge emission at antenna terminals – EDGE 1900 Channel Highest



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

Test Mode GSM 1900: Engineer :Jimmy

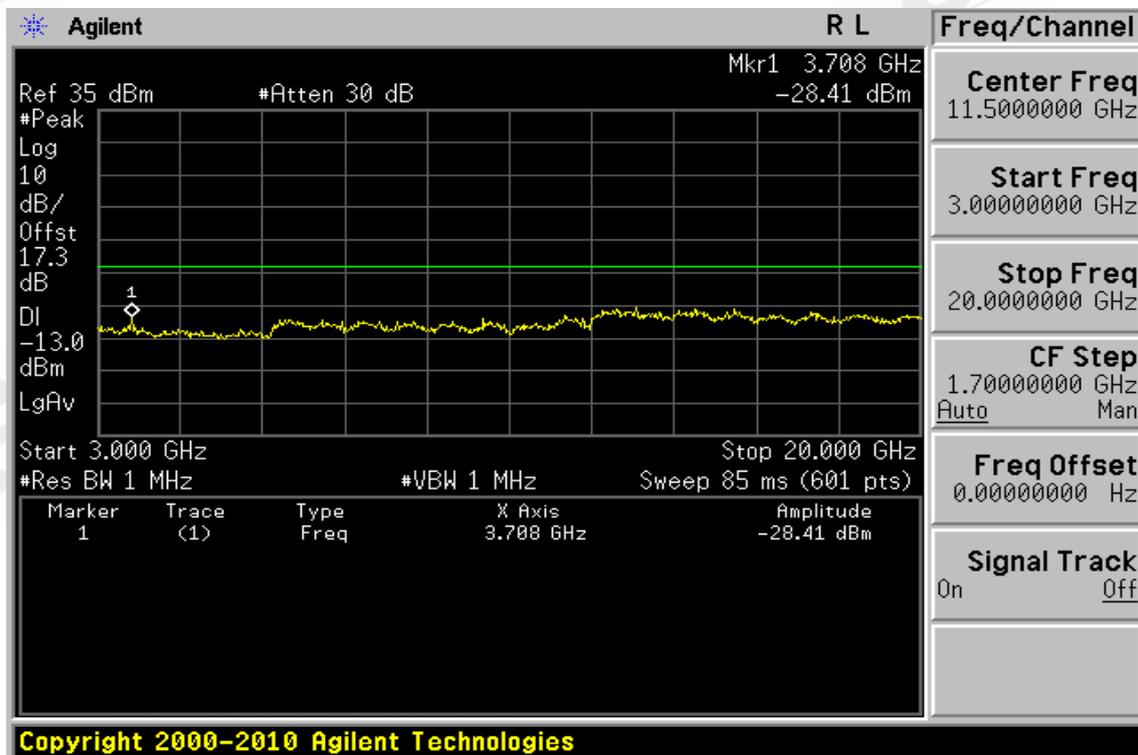
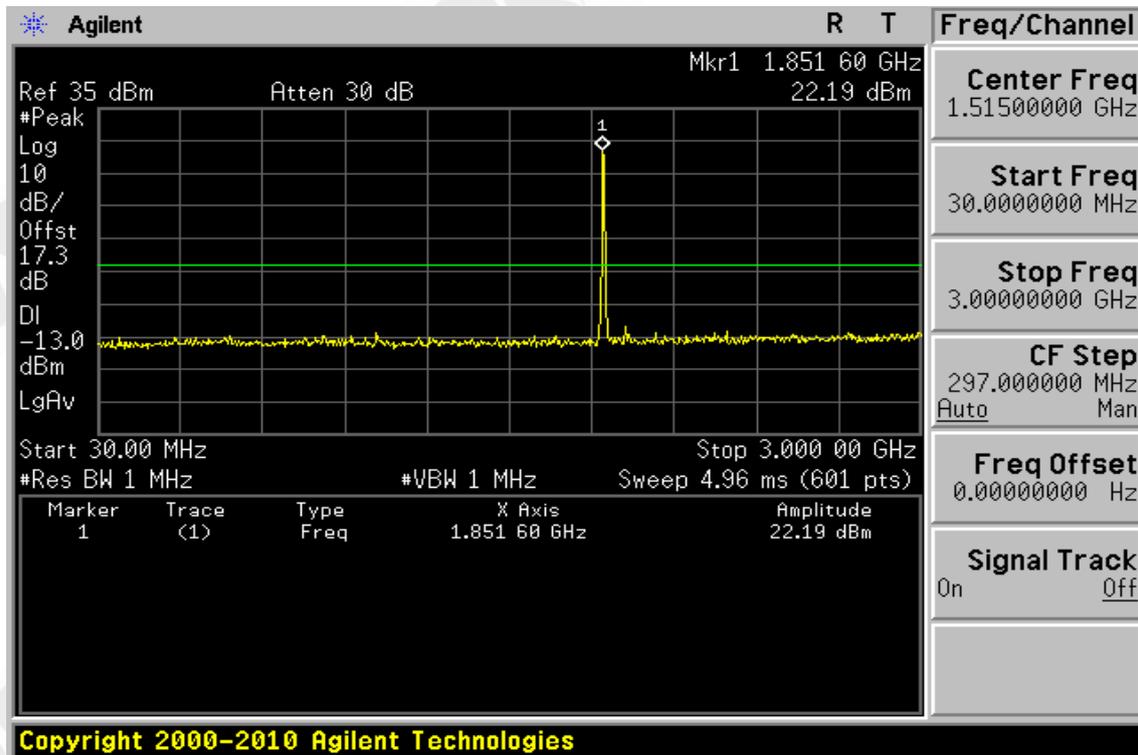
| Freq. MHz | Reading dBm | Limit dBm | Safe Margin dB |
|--------------|----------------|--------------|----------------------|
| 1849.976 | -24.13 | -13.00 | 11.13 |
| 1910.006 | -26.86 | -13.00 | 13.86 |

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

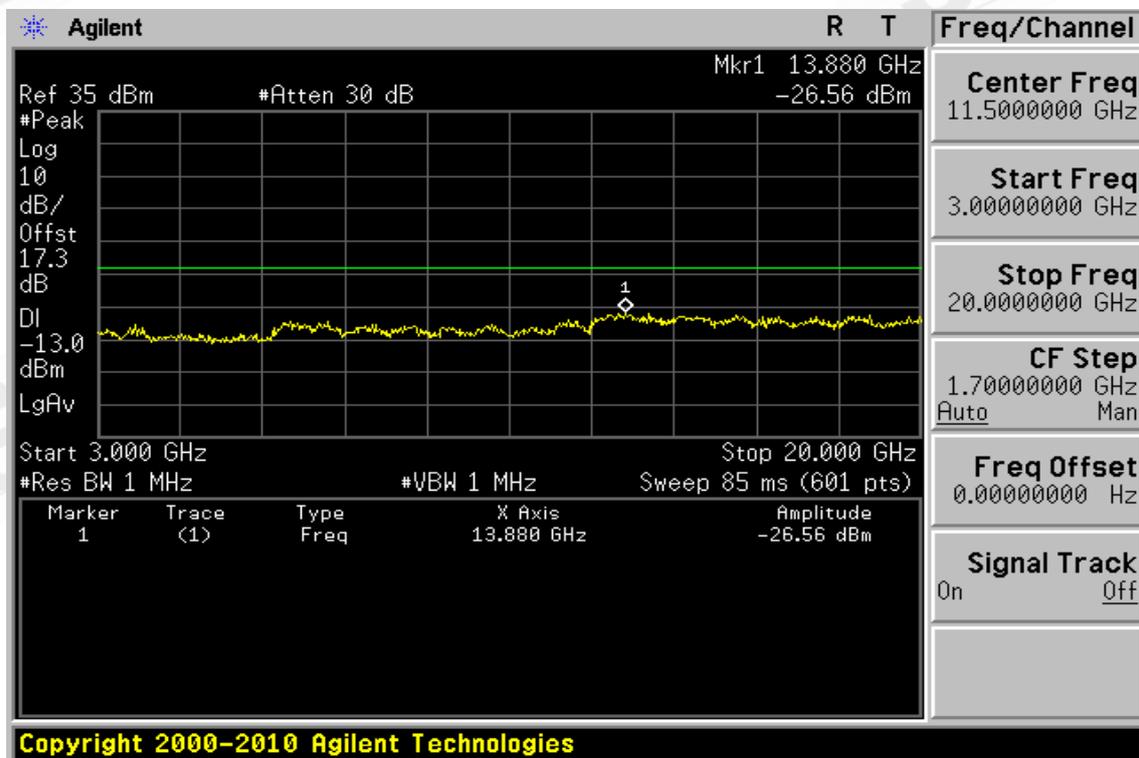
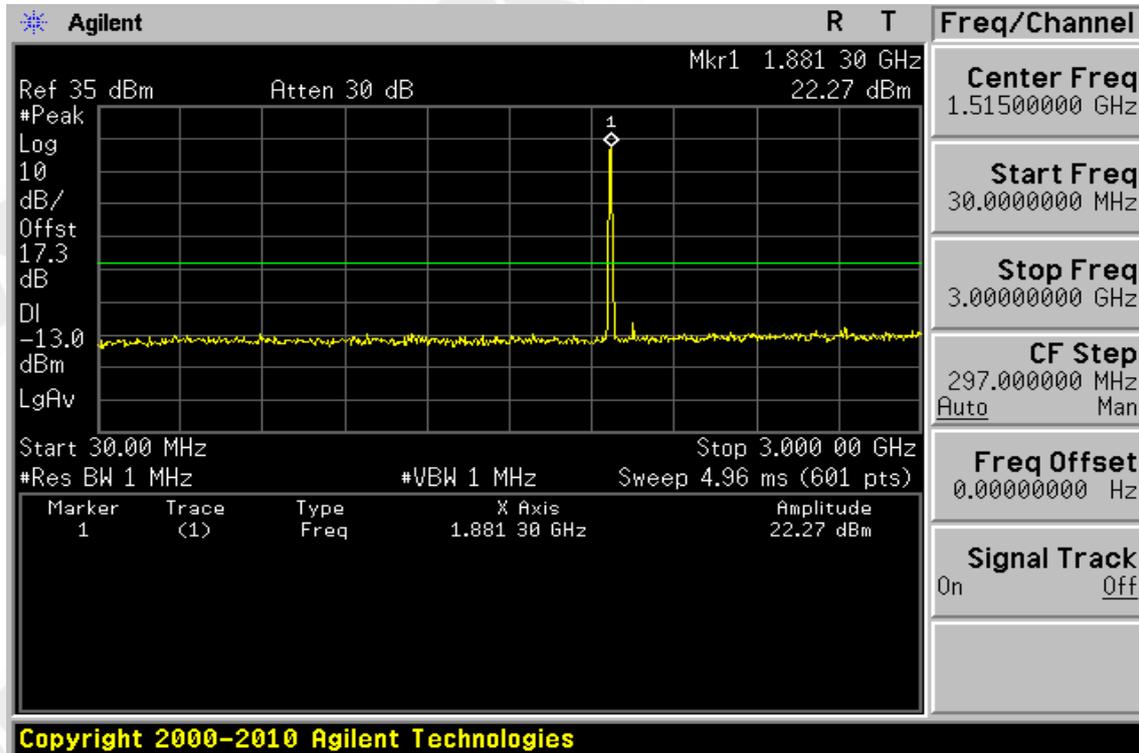


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Figure 9-32: Out of Band emission at antenna terminals – WCDMA II Channel Mid

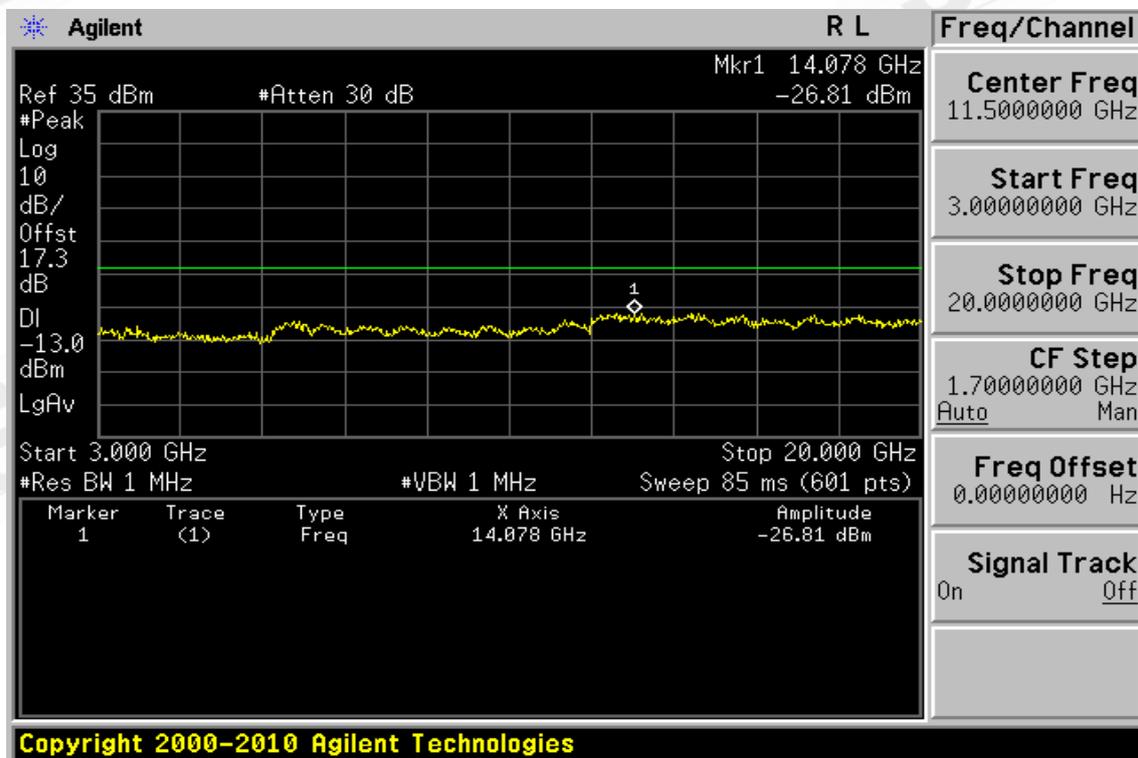
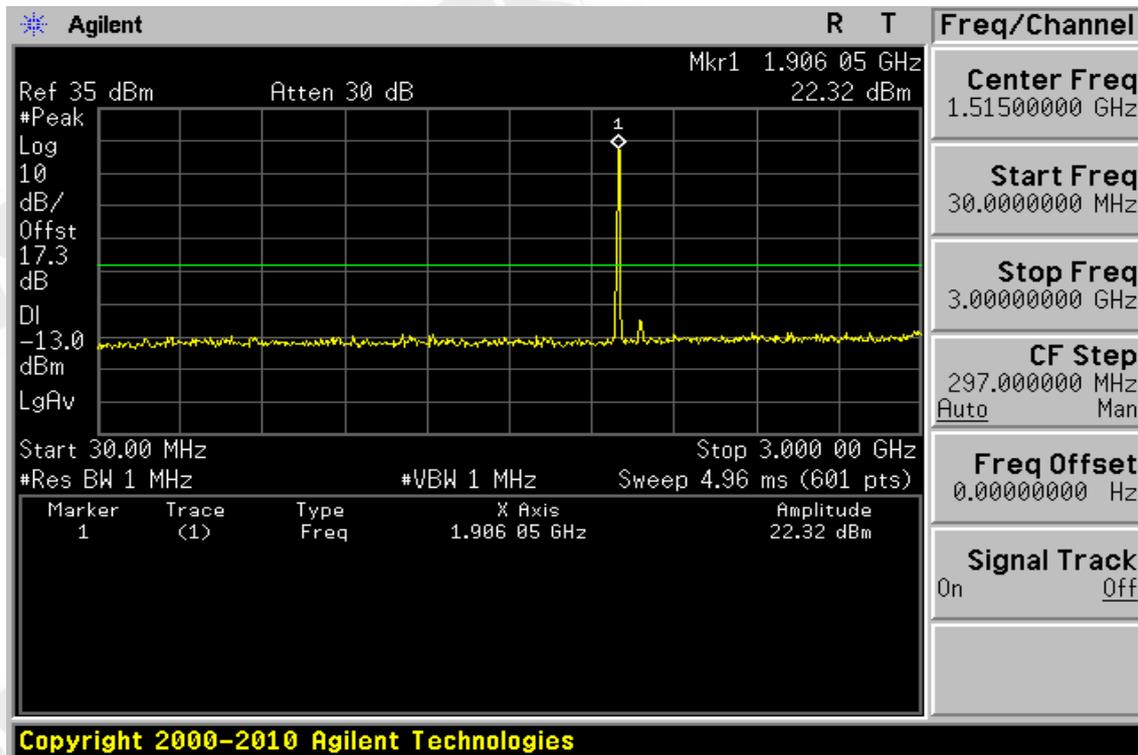


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Figure 9-33: Out of Band emission at antenna terminals – WCDMA II Channel Highest



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Out of Band emission at antenna terminals – WCDMA II

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 3704.80 | H | --- | -13.00 | --- |
| 3708.00 | S | -28.41 | -13.00 | 15.41 |
| 5557.20 | H | --- | -13.00 | --- |
| 7409.60 | H | --- | -13.00 | --- |
| 9262.00 | H | --- | -13.00 | --- |
| 11114.40 | H | --- | -13.00 | --- |
| 12966.80 | H | --- | -13.00 | --- |
| 14819.20 | H | --- | -13.00 | --- |
| 16671.60 | H | --- | -13.00 | --- |
| 18524.00 | H | --- | -13.00 | --- |

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

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 3760.00 | H | --- | -13.00 | --- |
| 5640.00 | H | --- | -13.00 | --- |
| 7520.00 | H | --- | -13.00 | --- |
| 9400.00 | H | --- | -13.00 | --- |
| 11280.00 | H | --- | -13.00 | --- |
| 13160.00 | H | --- | -13.00 | --- |
| 13880.00 | S | -26.56 | -13.00 | 13.56 |
| 15040.00 | H | --- | -13.00 | --- |
| 16920.00 | H | --- | -13.00 | --- |
| 18800.00 | H | --- | -13.00 | --- |

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

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 3815.20 | H | --- | -13.00 | --- |
| 5722.80 | H | --- | -13.00 | --- |
| 7630.40 | H | --- | -13.00 | --- |
| 9538.00 | H | --- | -13.00 | --- |
| 11445.60 | H | --- | -13.00 | --- |
| 13353.20 | H | --- | -13.00 | --- |
| 14078.00 | S | -26.81 | -13.00 | 13.81 |
| 15260.80 | H | --- | -13.00 | --- |
| 17168.40 | H | --- | -13.00 | --- |
| 19076.00 | H | --- | -13.00 | --- |

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

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

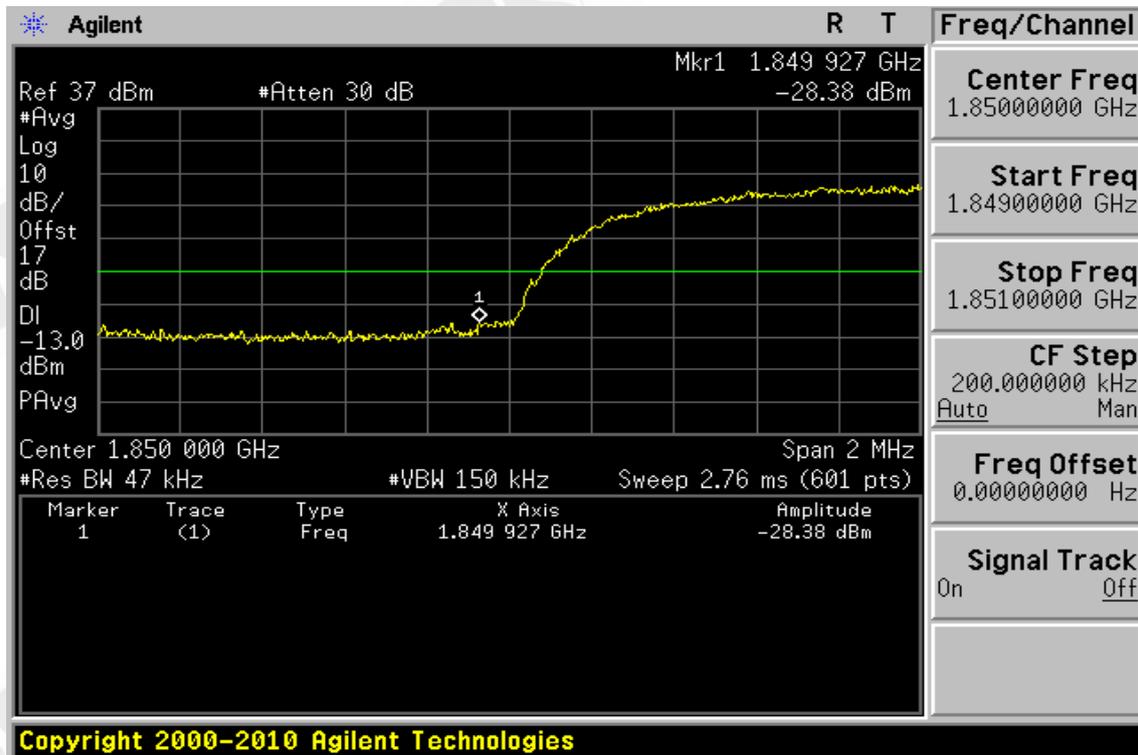
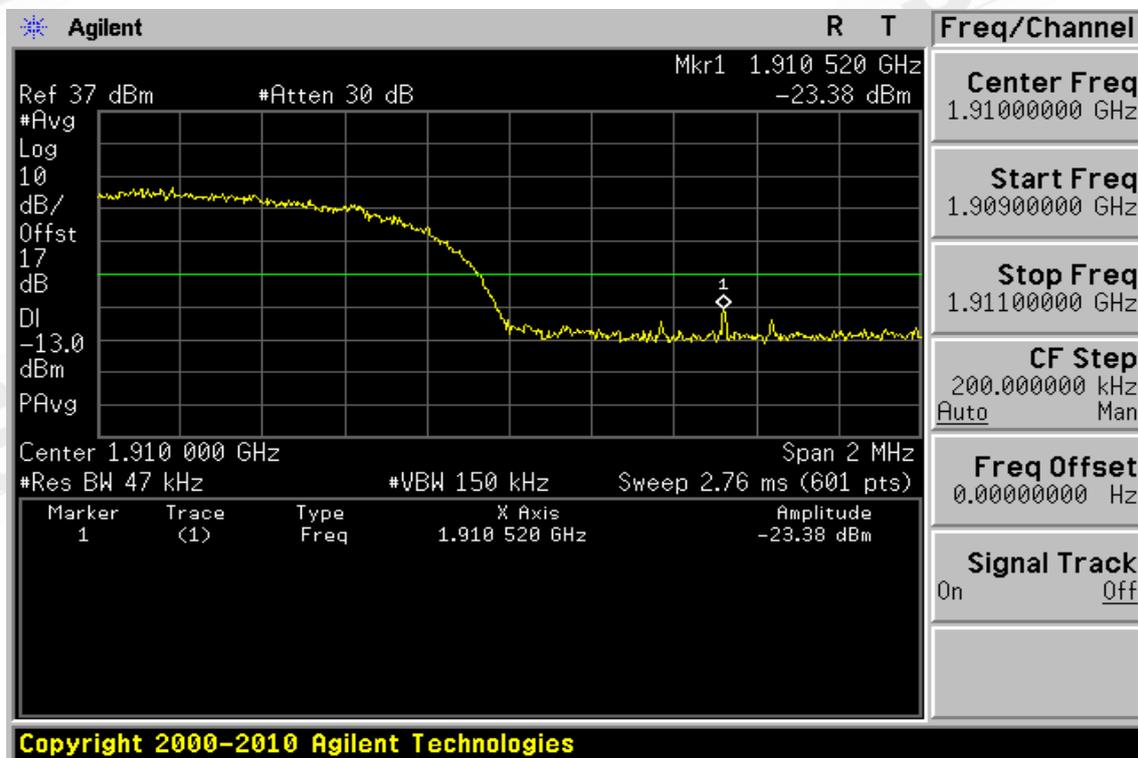


Figure 9-35: Band edge emission at antenna terminals – WCDMA II Channel Highest



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

Test Mode WCDMA II Engineer :Jimmy

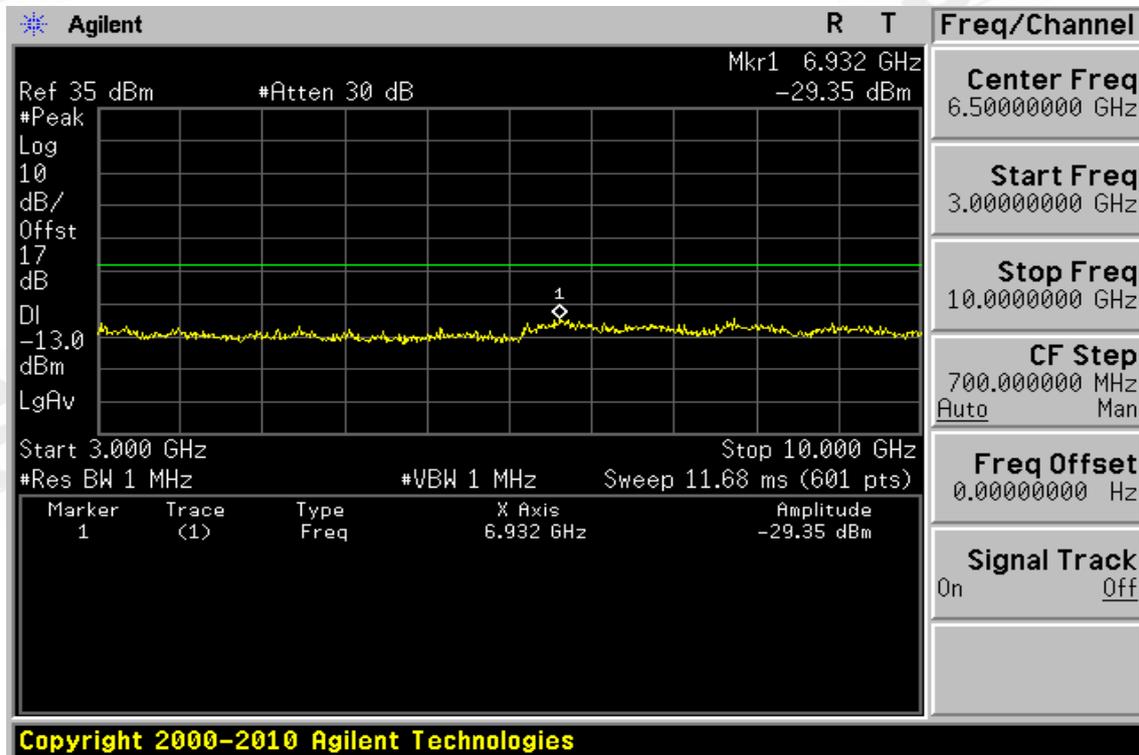
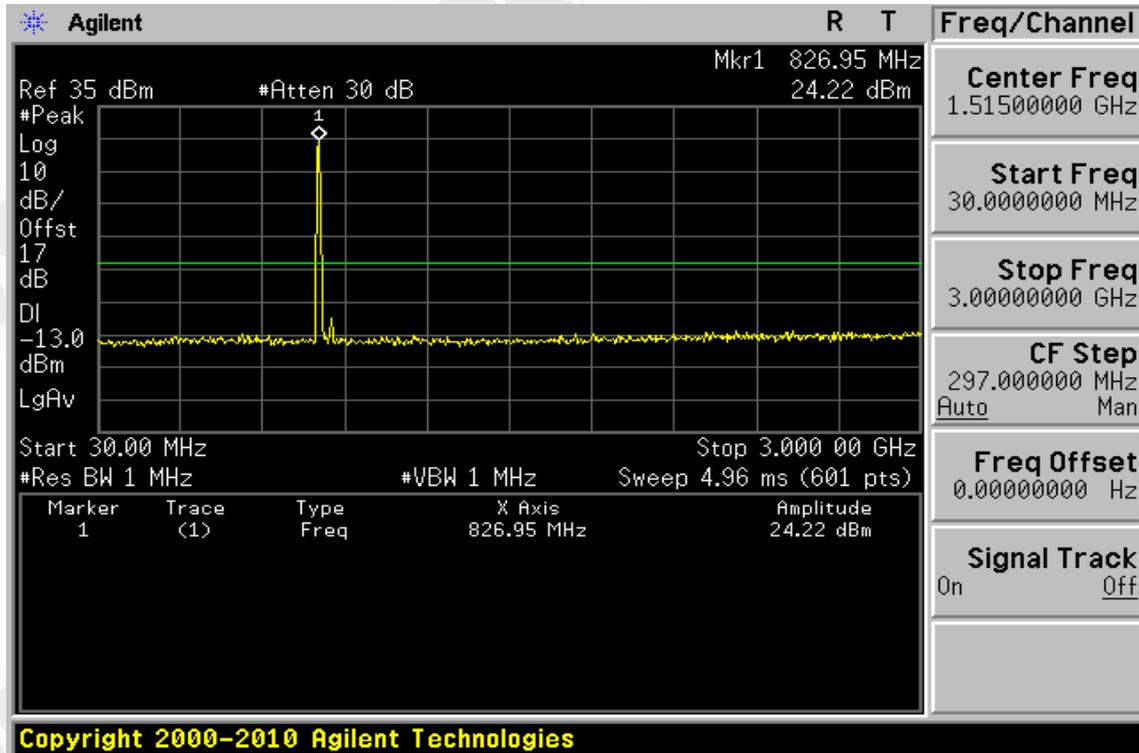
| Freq. MHz | Reading dBm | Limit dBm | Safe Margin dB |
|--------------|----------------|--------------|----------------------|
| 1849.927 | -28.38 | -13.00 | 15.38 |
| 1910.520 | -23.38 | -13.00 | 10.38 |

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

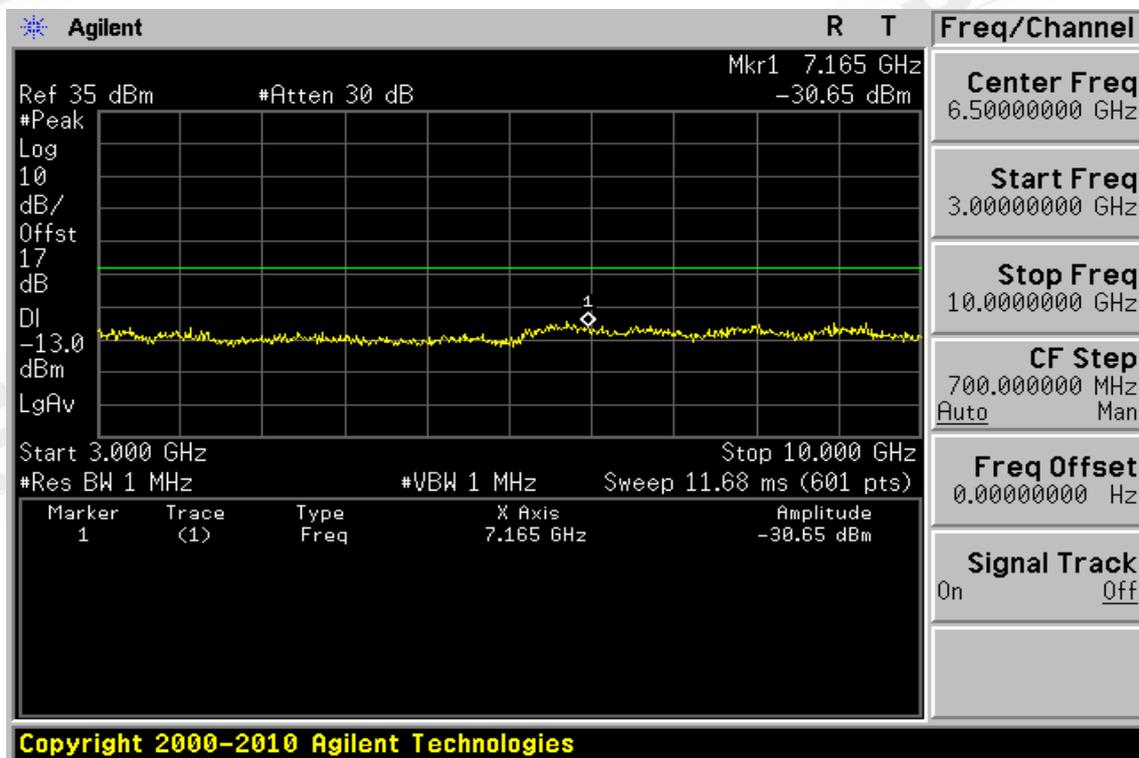
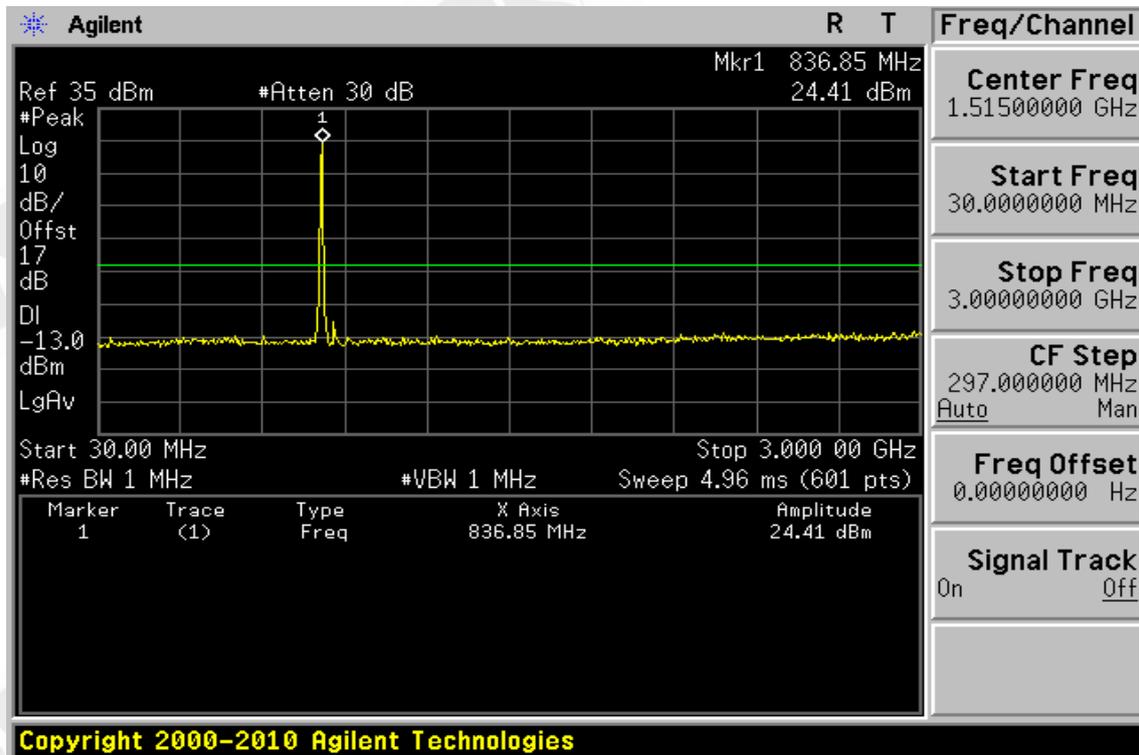


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Figure 9-37: Out of Band emission at antenna terminals – WCDMA V Channel Mid

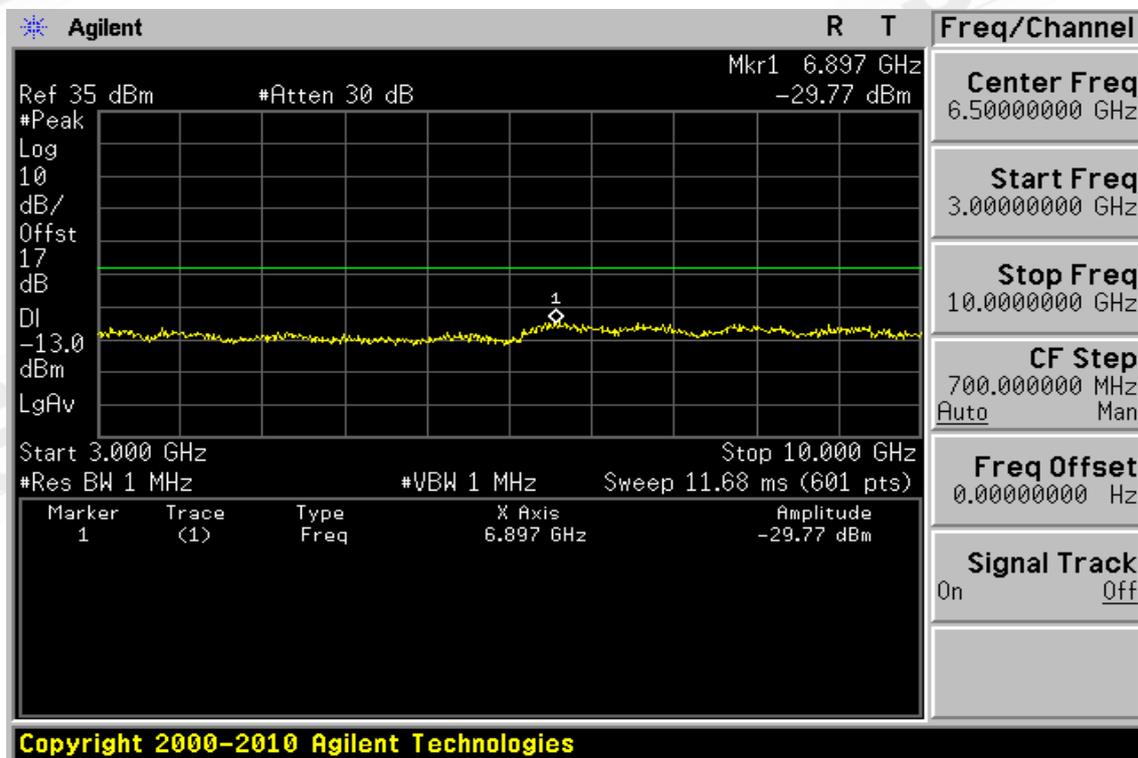
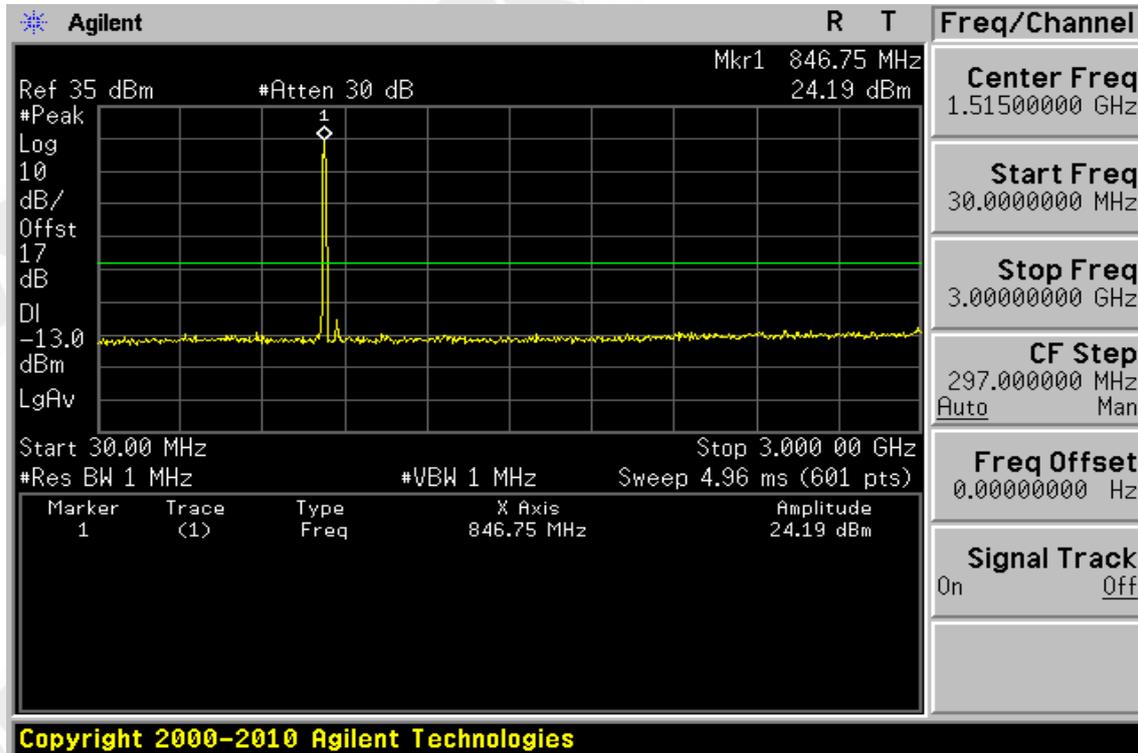


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Figure 9-38: Out of Band emission at antenna terminals – WCDMA V Channel Highest



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Out of Band emission at antenna terminals – WCDMA V

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 1652.80 | H | --- | -13.00 | --- |
| 2479.20 | H | --- | -13.00 | --- |
| 3305.60 | H | --- | -13.00 | --- |
| 4132.00 | H | --- | -13.00 | --- |
| 4958.40 | H | --- | -13.00 | --- |
| 5784.80 | H | --- | -13.00 | --- |
| 6611.20 | H | --- | -13.00 | --- |
| 6932.00 | S | -29.35 | -13.00 | 16.35 |
| 7437.60 | H | --- | -13.00 | --- |
| 8264.00 | H | --- | -13.00 | --- |

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

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|-------------|--------------|-------------|-----------|----------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 1673.20 | H | --- | -13.00 | --- |
| 2509.80 | H | --- | -13.00 | --- |
| 3346.40 | H | --- | -13.00 | --- |
| 4183.00 | H | --- | -13.00 | --- |
| 5019.60 | H | --- | -13.00 | --- |
| 5856.20 | H | --- | -13.00 | --- |
| 6692.80 | H | --- | -13.00 | --- |
| 7165.00 | S | -30.65 | -13.00 | 17.65 |
| 7529.40 | H | --- | -13.00 | --- |
| 8366.00 | H | --- | -13.00 | --- |

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

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|-------------|--------------|-------------|-----------|----------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 1693.20 | H | --- | -13.00 | --- |
| 2539.80 | H | --- | -13.00 | --- |
| 3386.40 | H | --- | -13.00 | --- |
| 4233.00 | H | --- | -13.00 | --- |
| 5079.60 | H | --- | -13.00 | --- |
| 5926.20 | H | --- | -13.00 | --- |
| 6772.80 | H | --- | -13.00 | --- |
| 6897.00 | S | -29.77 | -13.00 | 16.77 |
| 7619.40 | H | --- | -13.00 | --- |
| 8466.00 | H | --- | -13.00 | --- |

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

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

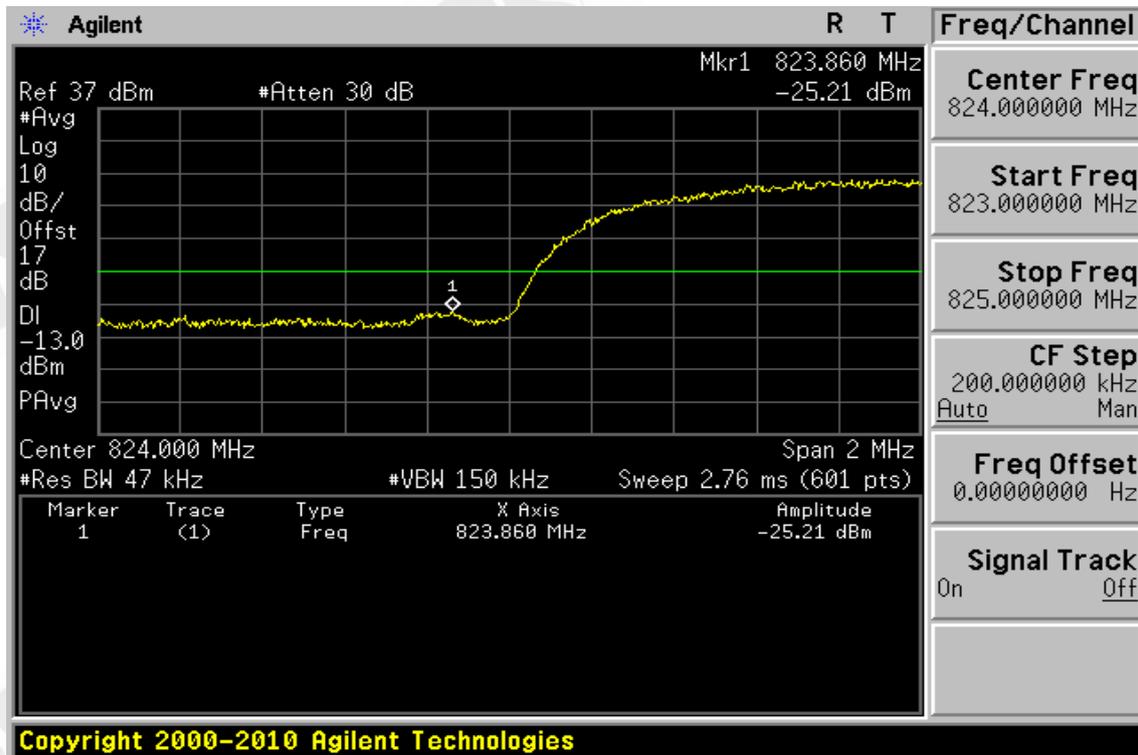
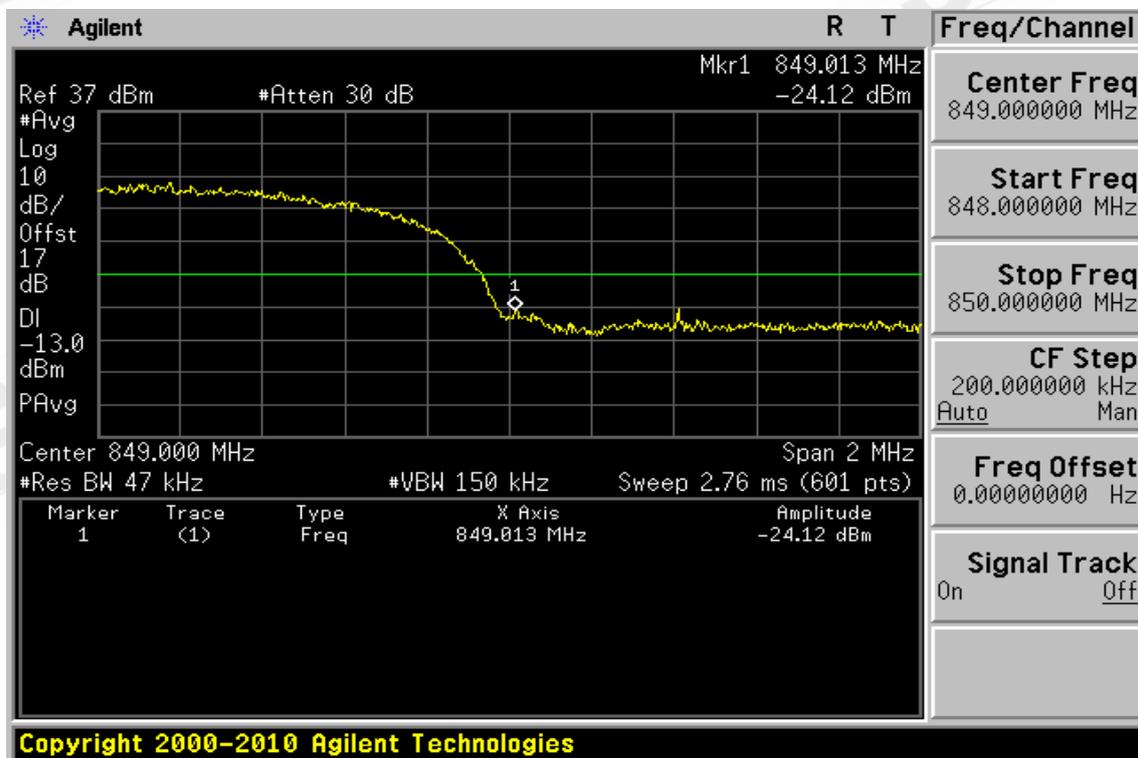


Figure 9-40: Band edge emission at antenna terminals – WCDMA V Channel Highest



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

Test Mode WCDMA V Engineer :Jimmy

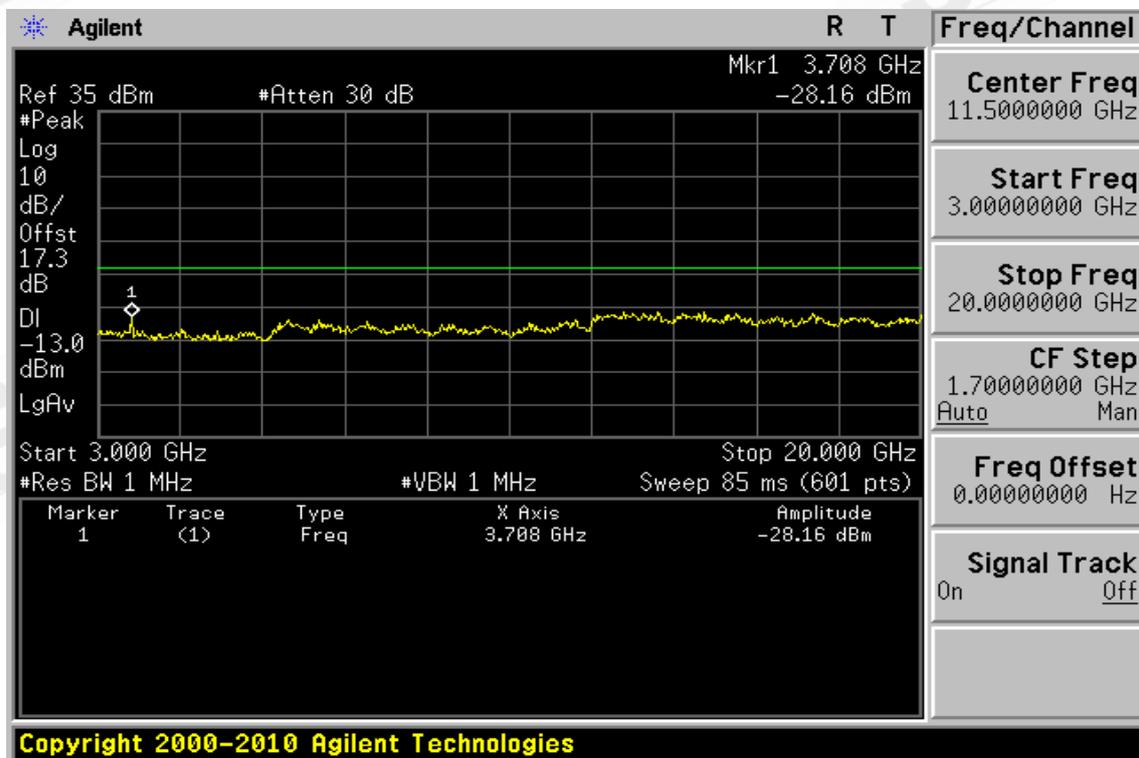
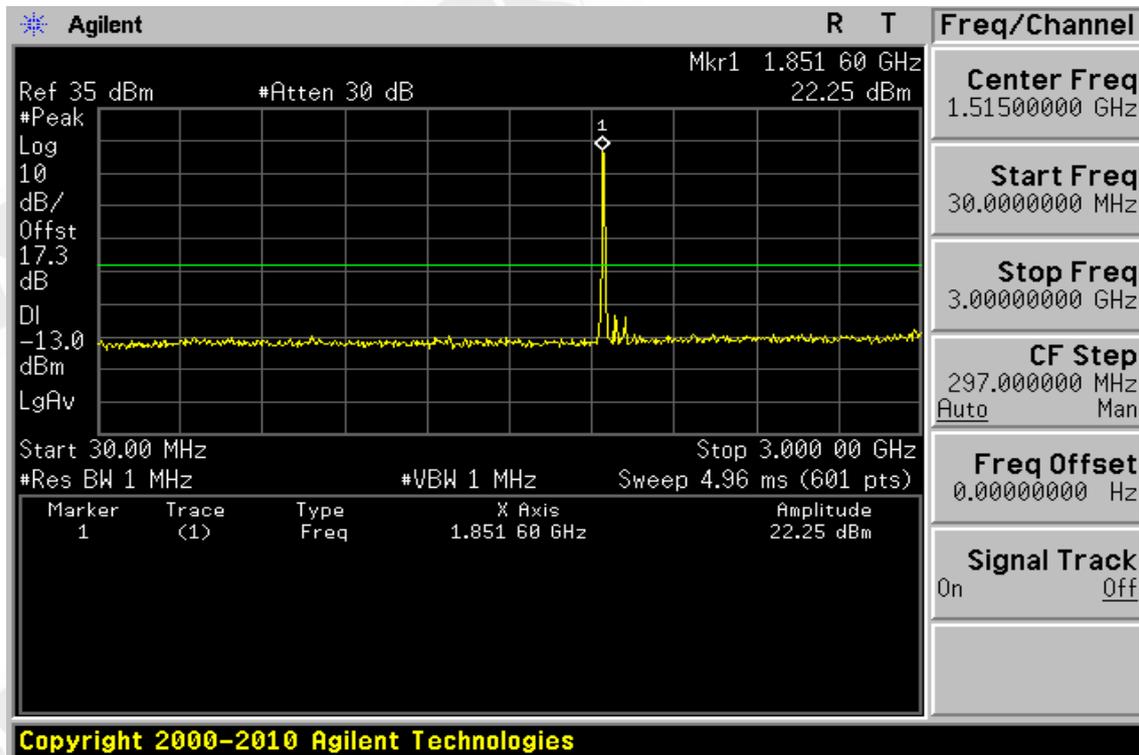
| Freq. MHz | Reading dBm | Limit dBm | Safe Margin dB |
|--------------|----------------|--------------|----------------------|
| 823.860 | -25.21 | -13.00 | 12.21 |
| 849.013 | -24.12 | -13.00 | 11.12 |

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

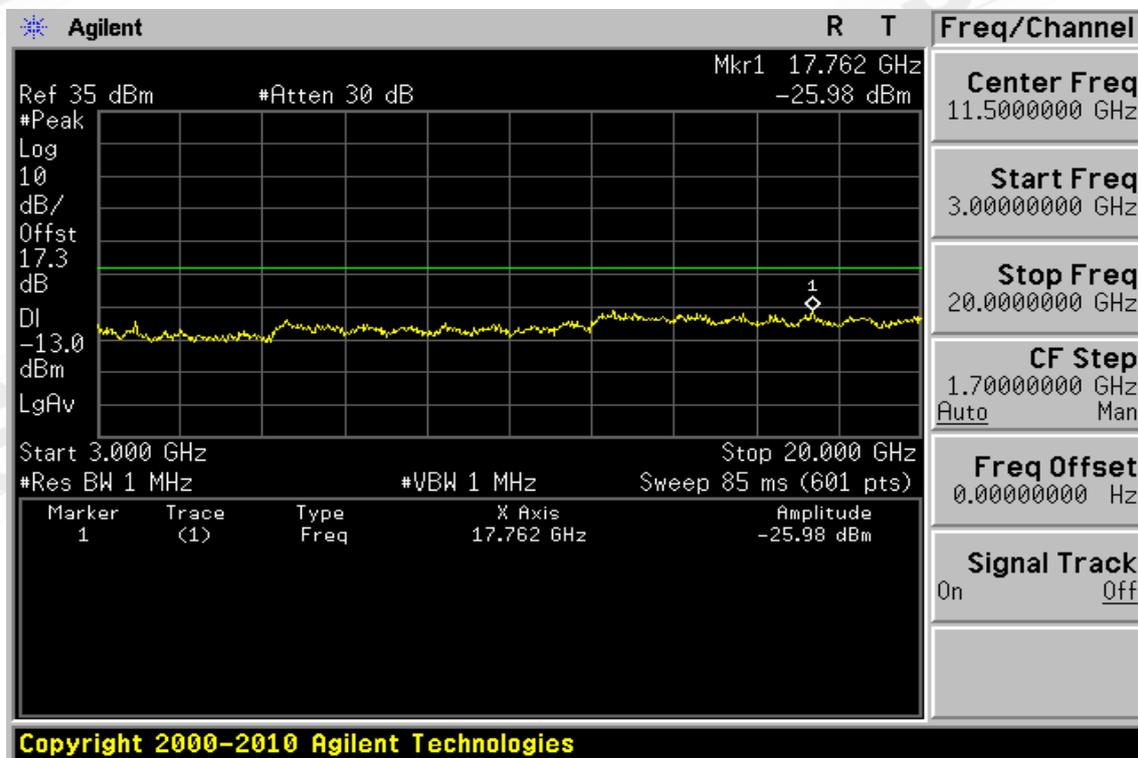
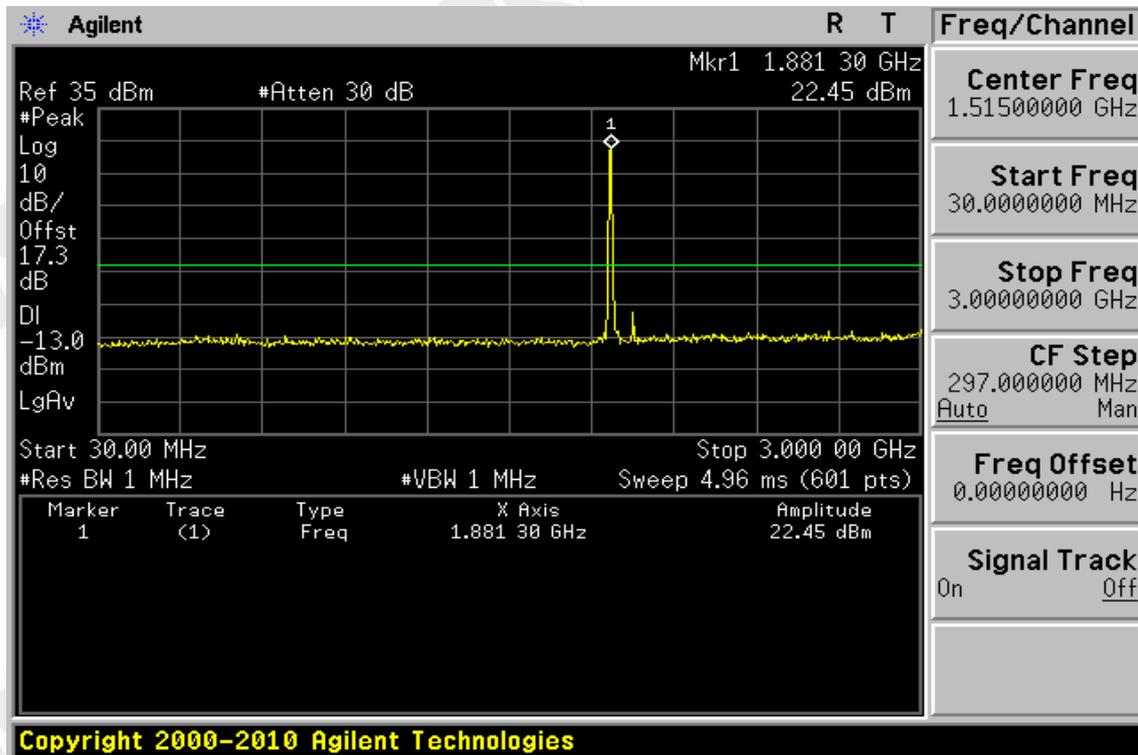


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Figure 9-42: Out of Band emission at antenna terminals – HSDPA II Channel Mid

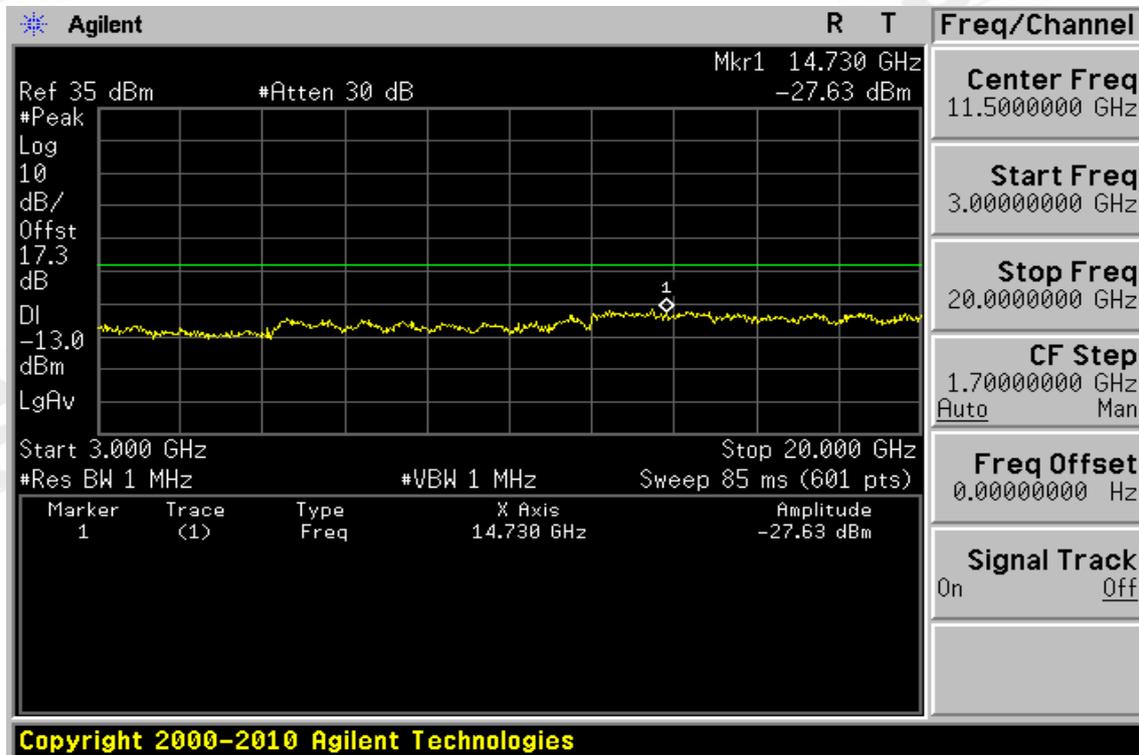
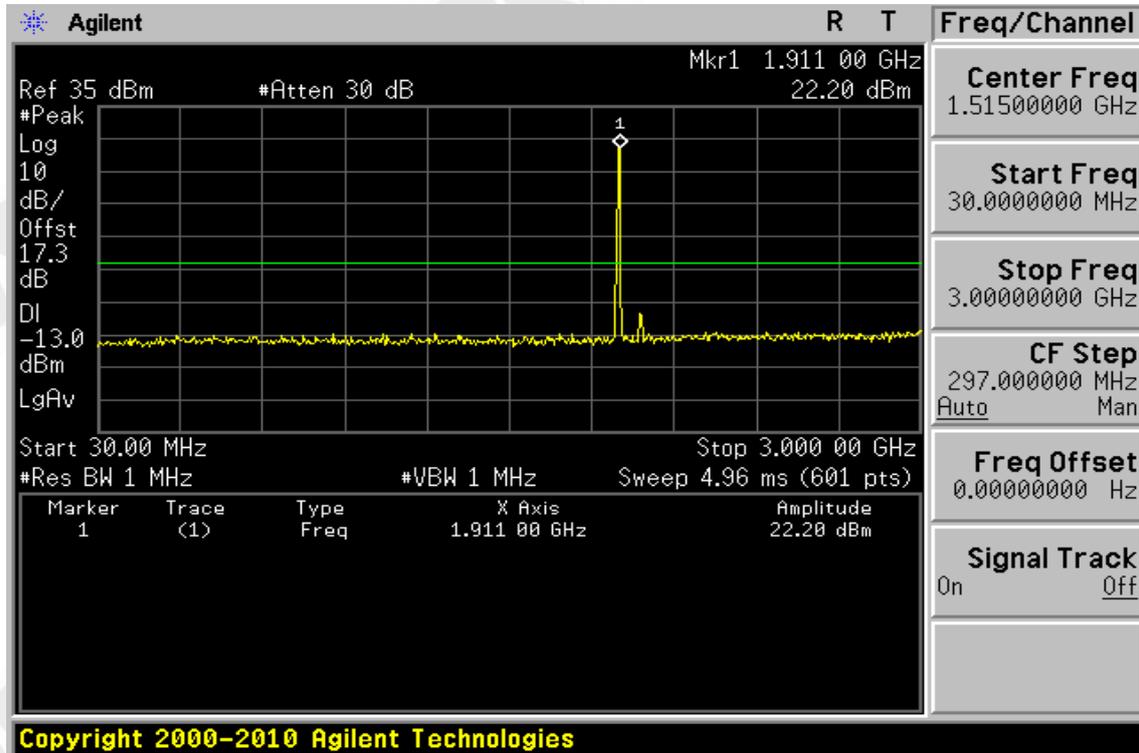


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Figure 9-43: Out of Band emission at antenna terminals – HSDPA II Channel Highest



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Out of Band emission at antenna terminals – HSDPA II

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|-------------|--------------|-------------|-----------|----------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 3704.80 | H | --- | -13.00 | --- |
| 3708.00 | S | -28.16 | -13.00 | 15.16 |
| 5557.20 | H | --- | -13.00 | --- |
| 7409.60 | H | --- | -13.00 | --- |
| 9262.00 | H | --- | -13.00 | --- |
| 11114.40 | H | --- | -13.00 | --- |
| 12966.80 | H | --- | -13.00 | --- |
| 14819.20 | H | --- | -13.00 | --- |
| 16671.60 | H | --- | -13.00 | --- |
| 18524.00 | H | --- | -13.00 | --- |

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

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 3760.00 | H | --- | -13.00 | --- |
| 5640.00 | H | --- | -13.00 | --- |
| 7520.00 | H | --- | -13.00 | --- |
| 9400.00 | H | --- | -13.00 | --- |
| 11280.00 | H | --- | -13.00 | --- |
| 13160.00 | H | --- | -13.00 | --- |
| 15040.00 | H | --- | -13.00 | --- |
| 16920.00 | H | --- | -13.00 | --- |
| 17762.00 | S | -25.98 | -13.00 | 12.98 |
| 18800.00 | H | --- | -13.00 | --- |

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

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|-------------|--------------|-------------|-----------|----------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 3815.20 | H | --- | -13.00 | --- |
| 5722.80 | H | --- | -13.00 | --- |
| 7630.40 | H | --- | -13.00 | --- |
| 9538.00 | H | --- | -13.00 | --- |
| 11445.60 | H | --- | -13.00 | --- |
| 13353.20 | H | --- | -13.00 | --- |
| 14730.00 | S | -27.63 | -13.00 | 14.63 |
| 15260.80 | H | --- | -13.00 | --- |
| 17168.40 | H | --- | -13.00 | --- |
| 19076.00 | H | --- | -13.00 | --- |

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

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

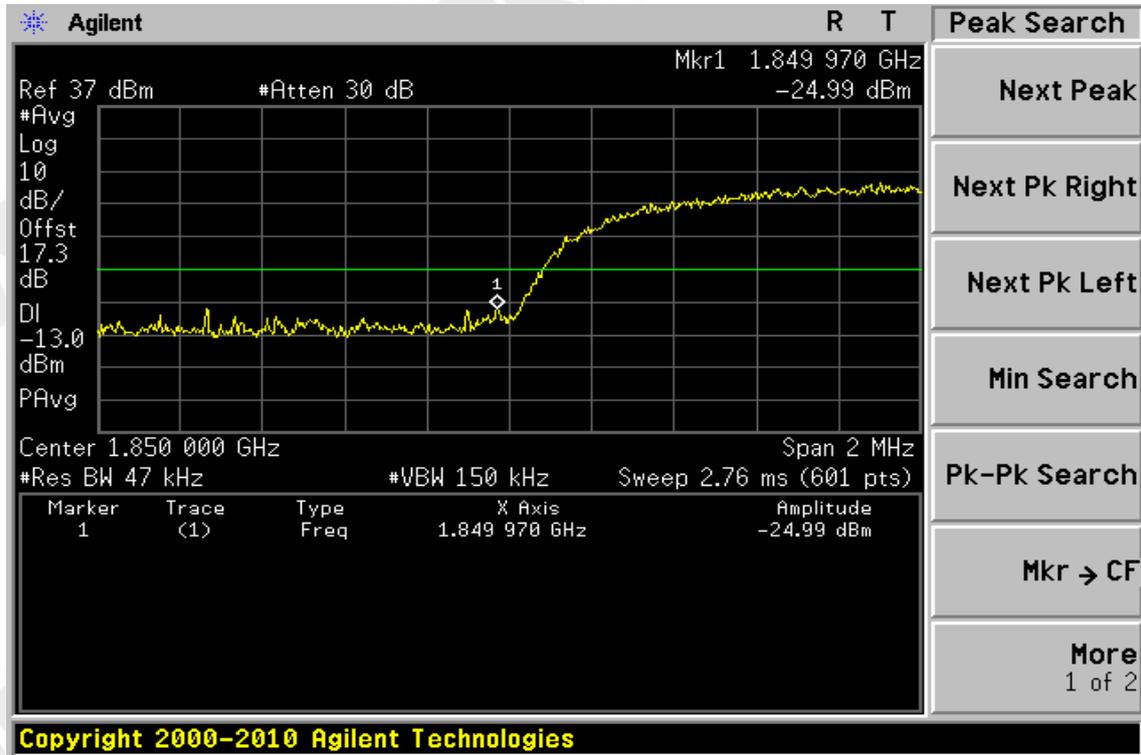
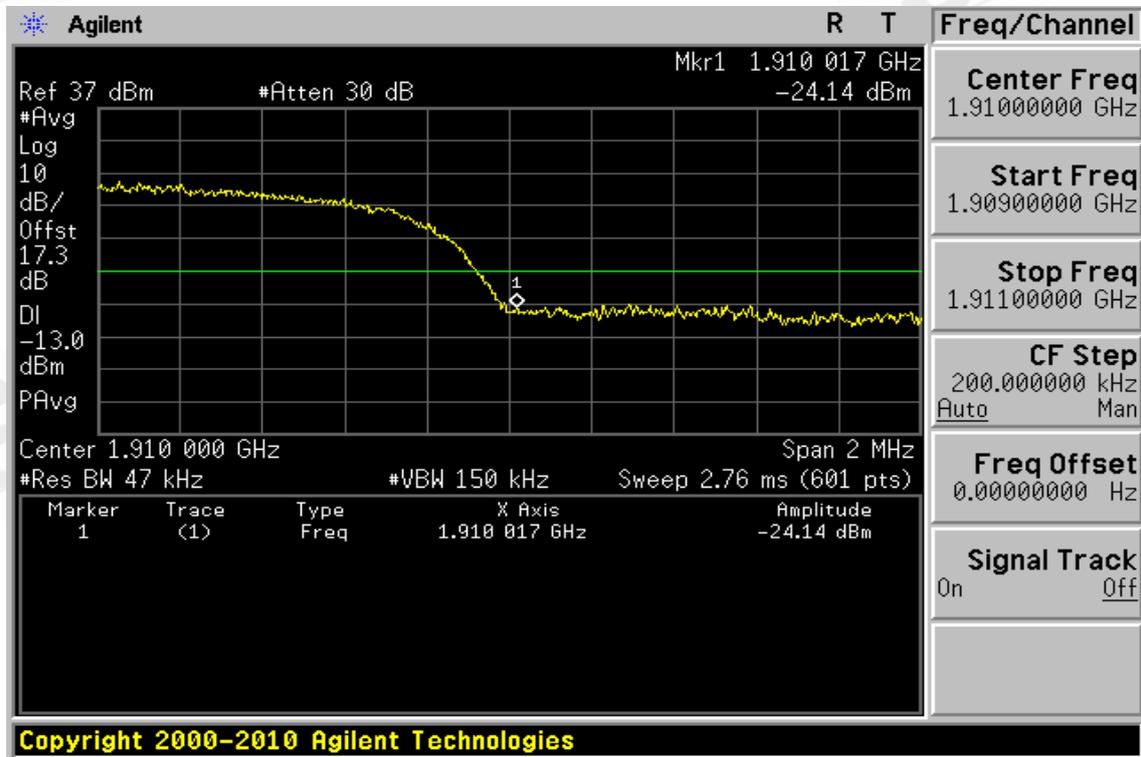


Figure 9-45: Band edge emission at antenna terminals – HSUPA II Channel Highest



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

Test Mode HSDPA II Engineer :Jimmy

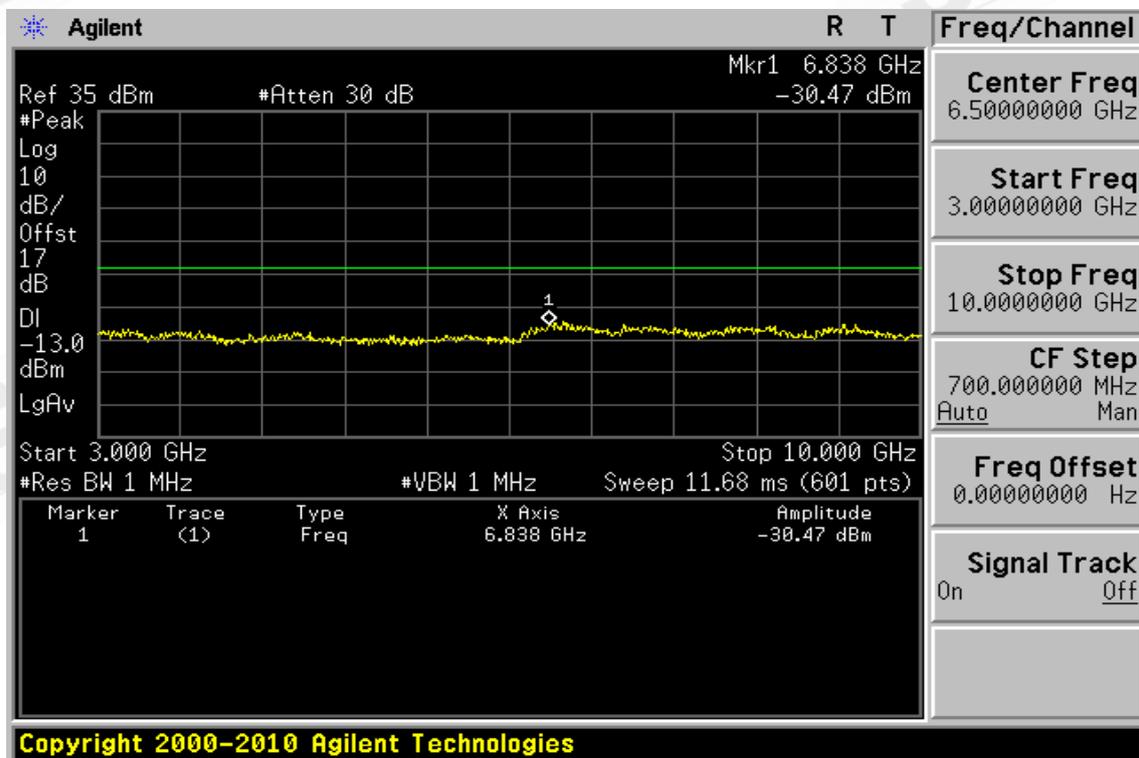
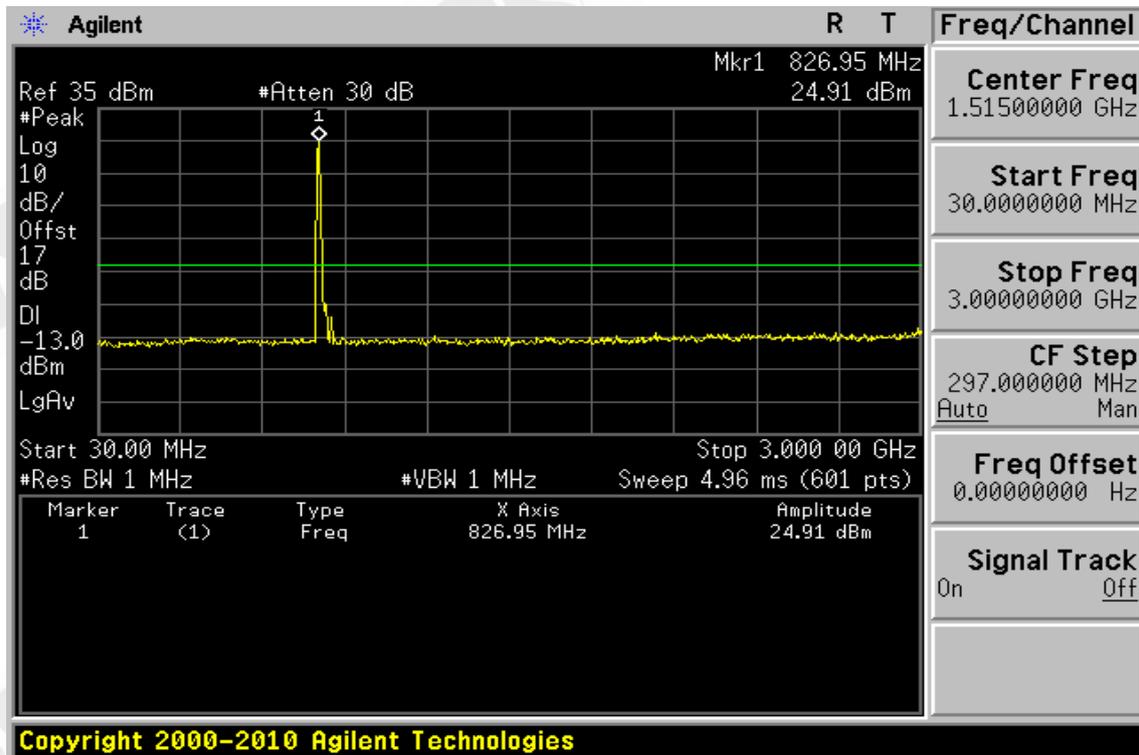
| Freq. MHz | Reading dBm | Limit dBm | Safe Margin dB |
|--------------|----------------|--------------|----------------------|
| 1849.970 | -24.99 | -13.00 | 11.99 |
| 1910.017 | -24.14 | -13.00 | 11.14 |

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

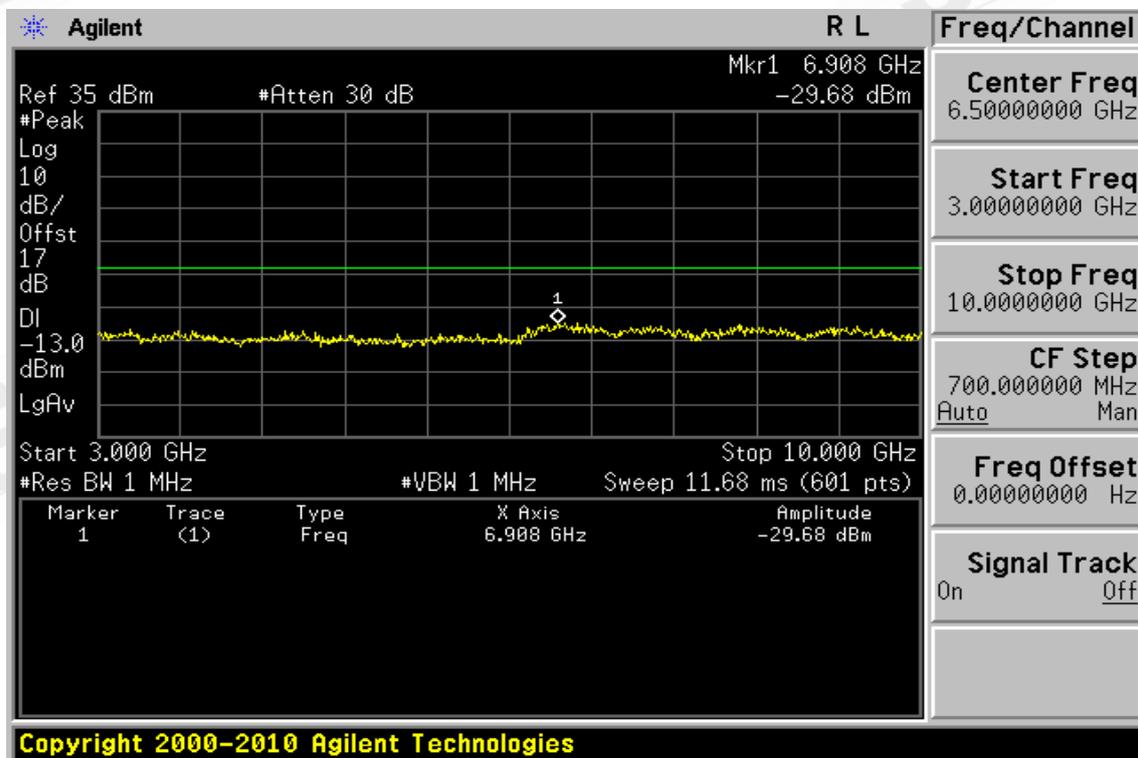
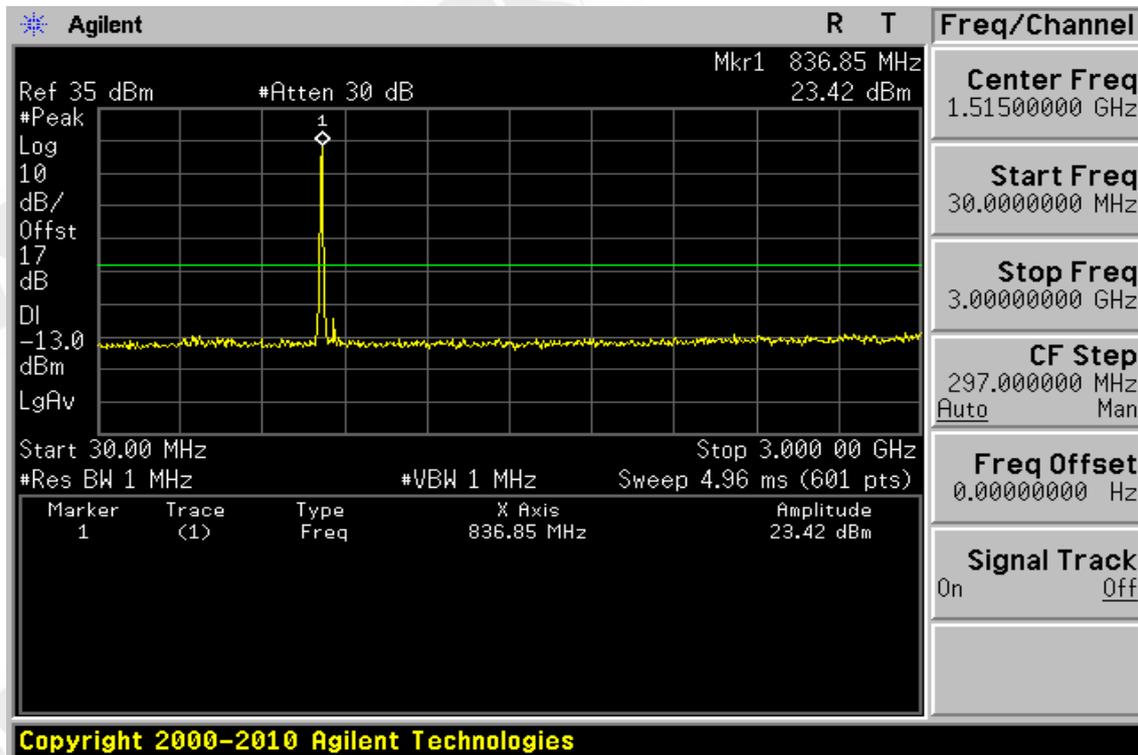


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Figure 9-47: Out of Band emission at antenna terminals – HSDPA V Channel Mid

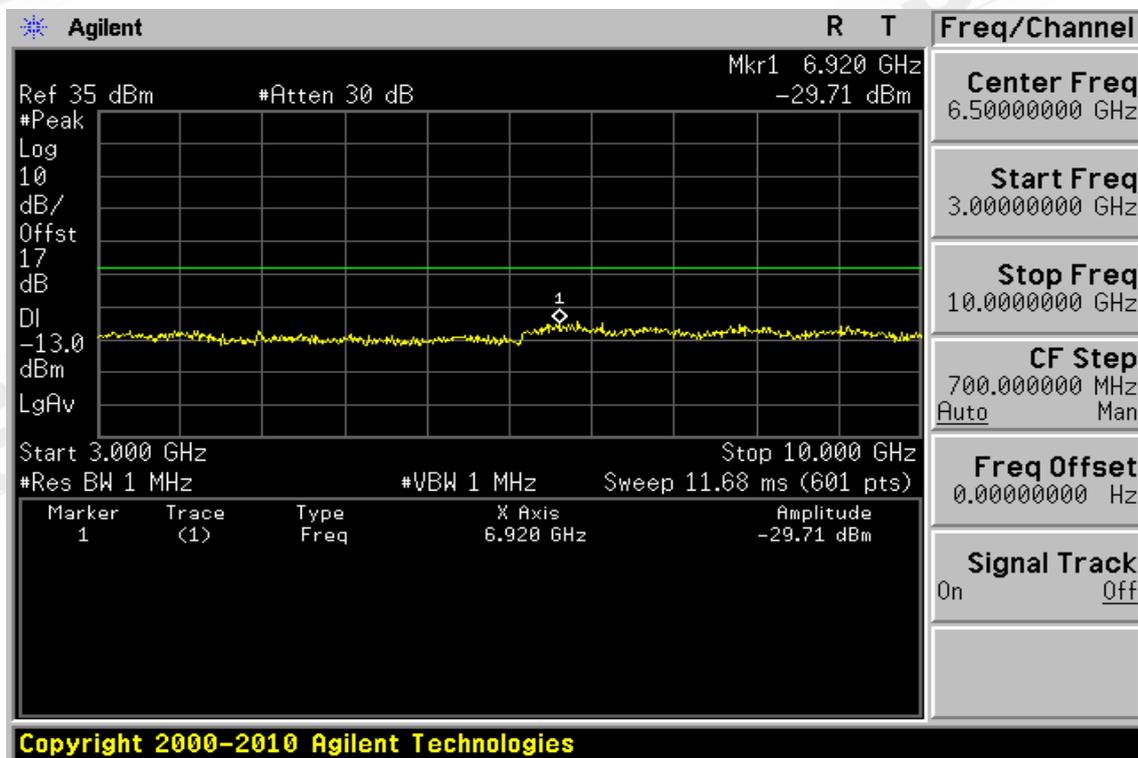
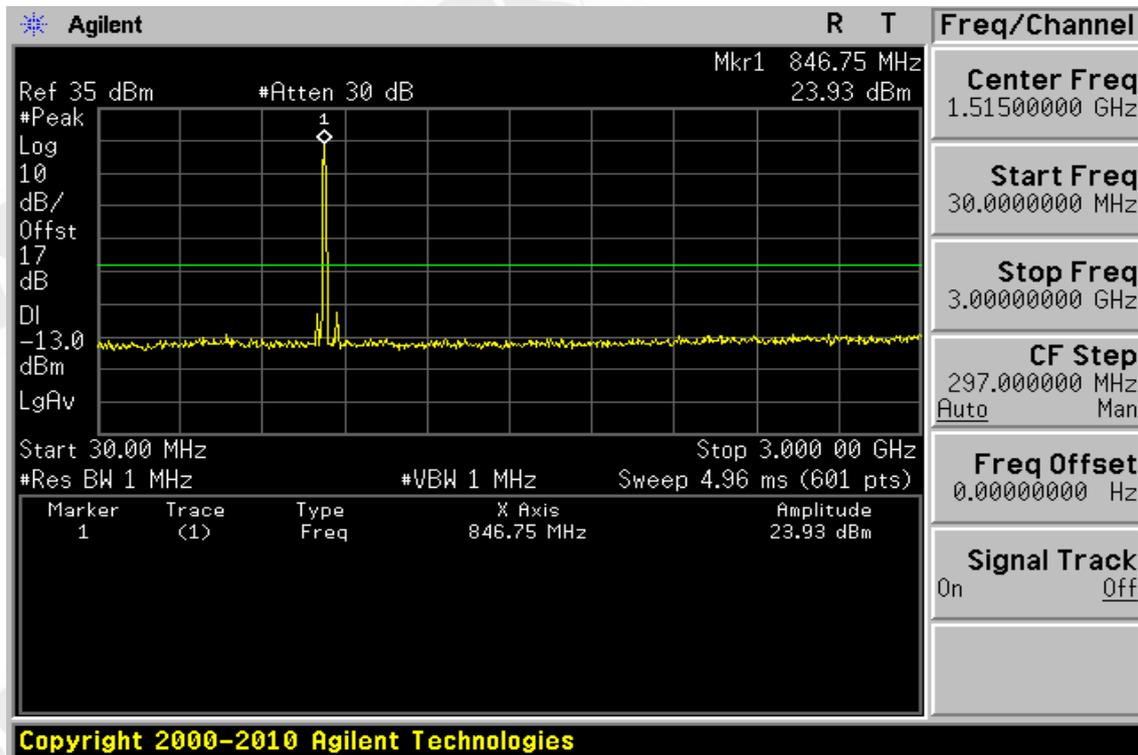


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Figure 9-48: Out of Band emission at antenna terminals – HSDPA V Channel Highest



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Out of Band emission at antenna terminals – HSDPA V

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|-------------|--------------|-------------|-----------|----------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 1652.80 | H | --- | -13.00 | --- |
| 2479.20 | H | --- | -13.00 | --- |
| 3305.60 | H | --- | -13.00 | --- |
| 4132.00 | H | --- | -13.00 | --- |
| 4958.40 | H | --- | -13.00 | --- |
| 5784.80 | H | --- | -13.00 | --- |
| 6611.20 | H | --- | -13.00 | --- |
| 6838.00 | S | -30.47 | -13.00 | 17.47 |
| 7437.60 | H | --- | -13.00 | --- |
| 8264.00 | H | --- | -13.00 | --- |

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

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|-------------|--------------|-------------|-----------|----------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 1673.20 | H | --- | -13.00 | --- |
| 2509.80 | H | --- | -13.00 | --- |
| 3346.40 | H | --- | -13.00 | --- |
| 4183.00 | H | --- | -13.00 | --- |
| 5019.60 | H | --- | -13.00 | --- |
| 5856.20 | H | --- | -13.00 | --- |
| 6692.80 | H | --- | -13.00 | --- |
| 6908.00 | S | -29.68 | -13.00 | 16.68 |
| 7529.40 | H | --- | -13.00 | --- |
| 8366.00 | H | --- | -13.00 | --- |

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

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|-------------|--------------|-------------|-----------|----------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 1693.20 | H | --- | -13.00 | --- |
| 2539.80 | H | --- | -13.00 | --- |
| 3386.40 | H | --- | -13.00 | --- |
| 4233.00 | H | --- | -13.00 | --- |
| 5079.60 | H | --- | -13.00 | --- |
| 5926.20 | H | --- | -13.00 | --- |
| 6772.80 | H | --- | -13.00 | --- |
| 6920.00 | S | -29.71 | -13.00 | 16.71 |
| 7619.40 | H | --- | -13.00 | --- |
| 8466.00 | H | --- | -13.00 | --- |

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

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

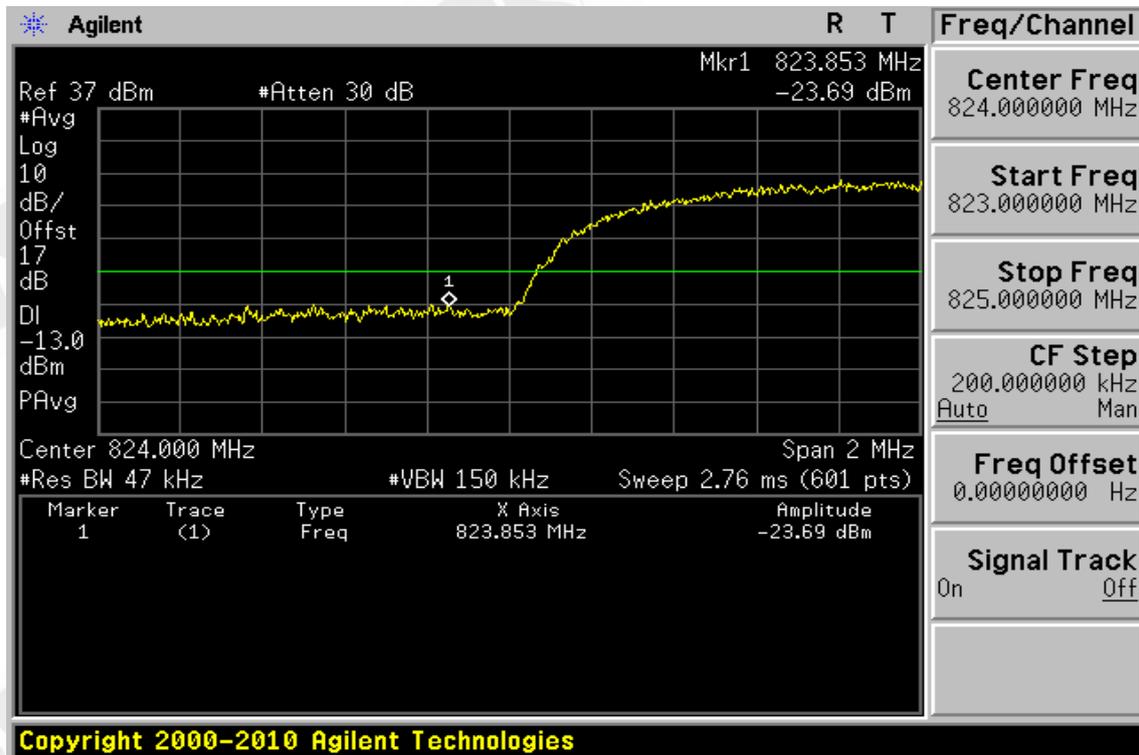
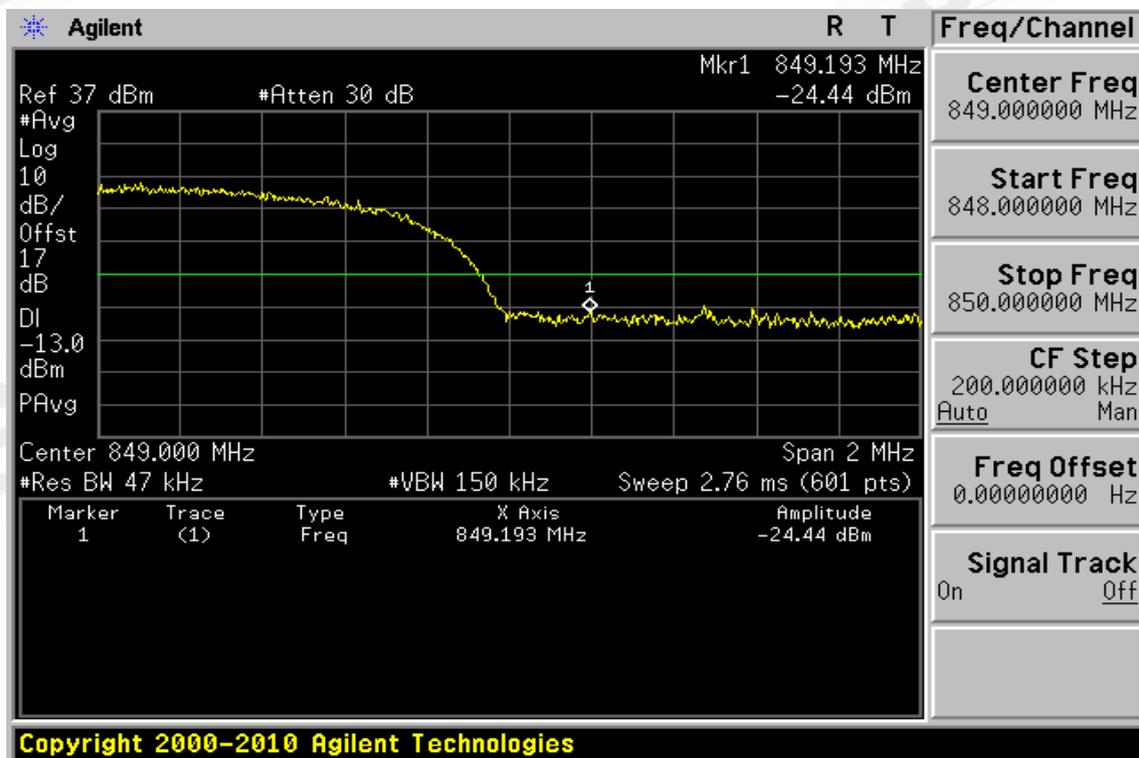


Figure 9-50: Band edge emission at antenna terminals – HSDPA V Channel Highest



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

Test Mode HSDPA V Engineer :Jimmy

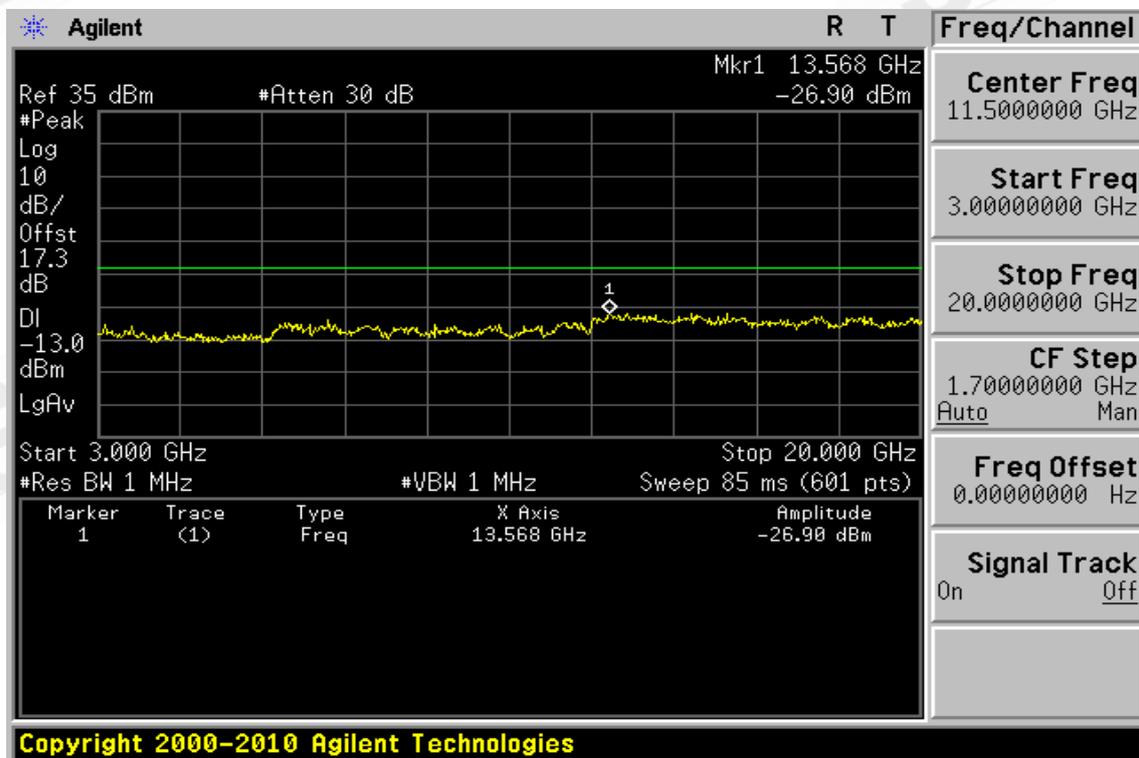
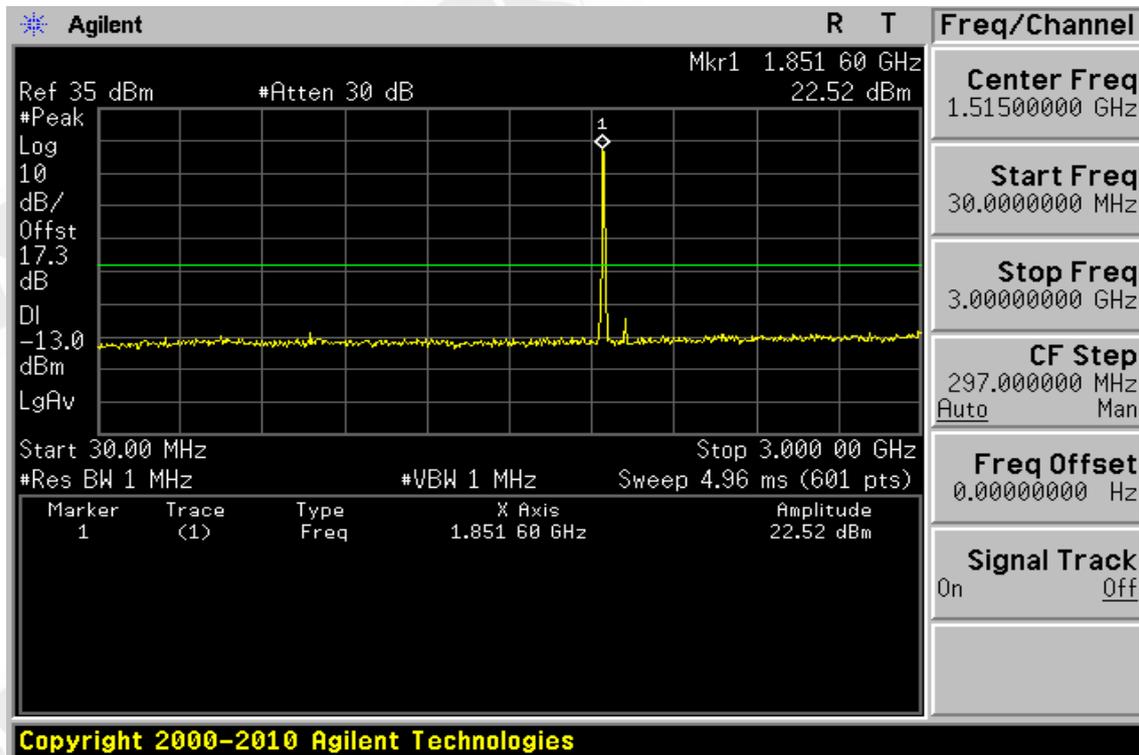
| Freq. MHz | Reading dBm | Limit dBm | Safe Margin dB |
|--------------|----------------|--------------|----------------------|
| 823.853 | -23.69 | -13.00 | 10.69 |
| 849.193 | -24.44 | -13.00 | 11.44 |

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

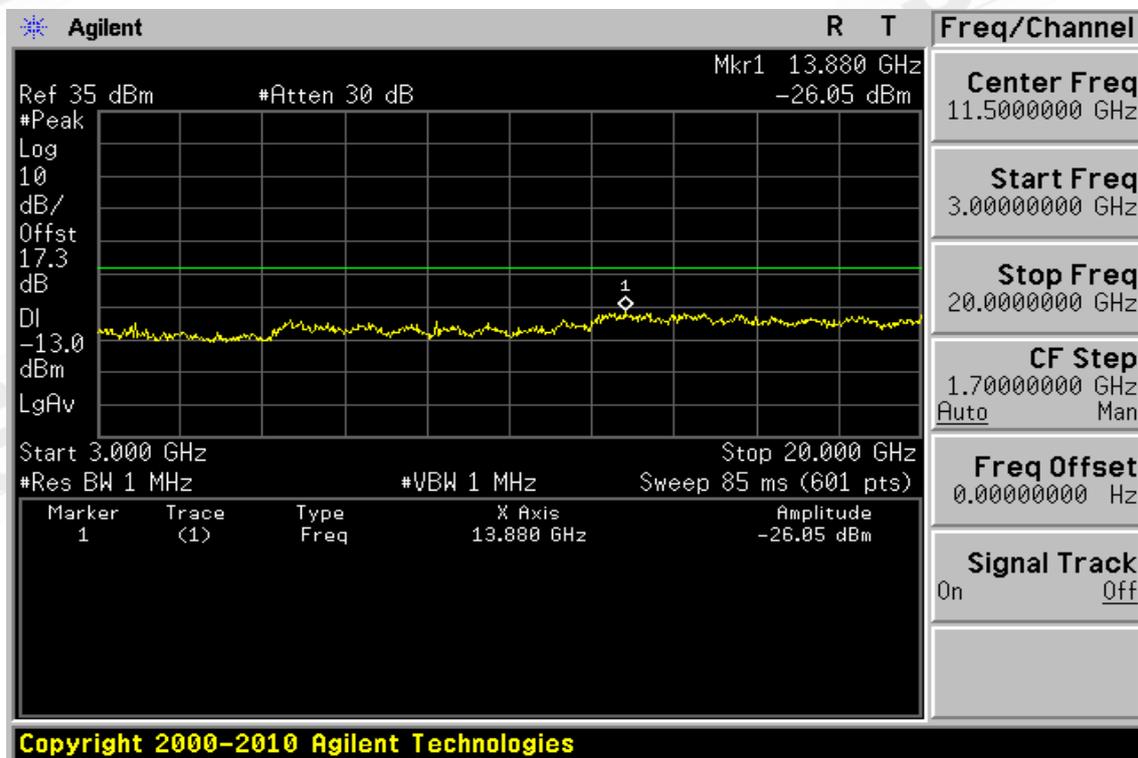
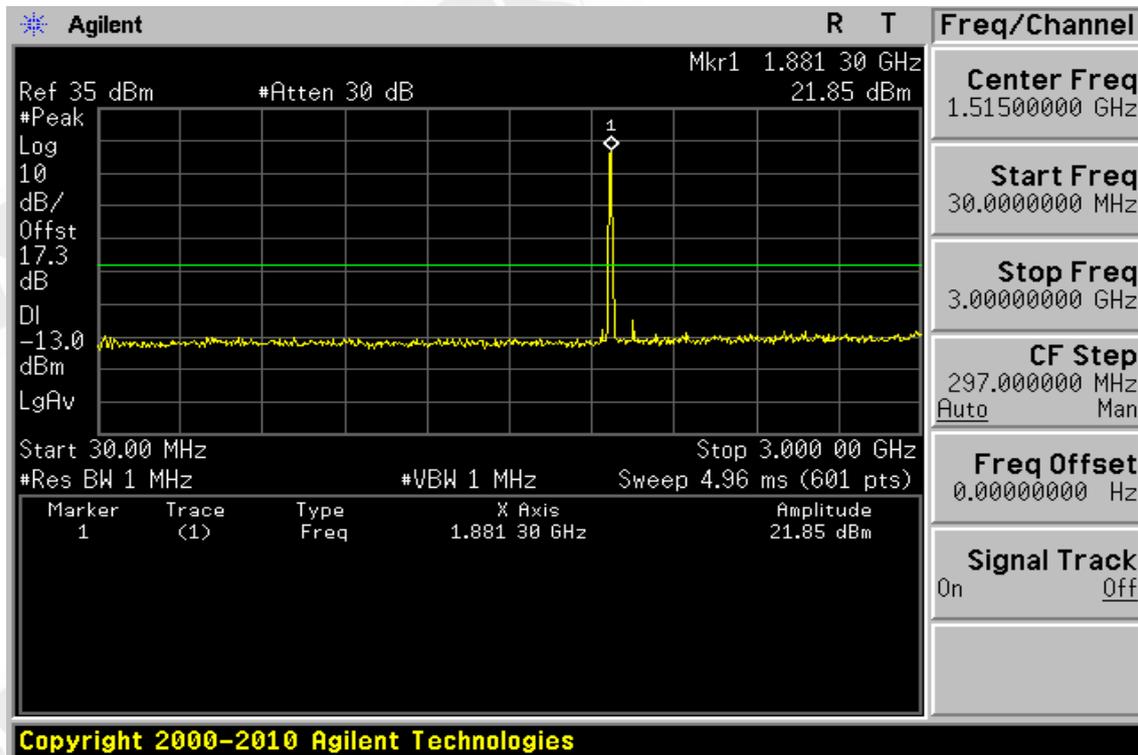


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Figure 9-52: Out of Band emission at antenna terminals – HSUPA II Channel Mid

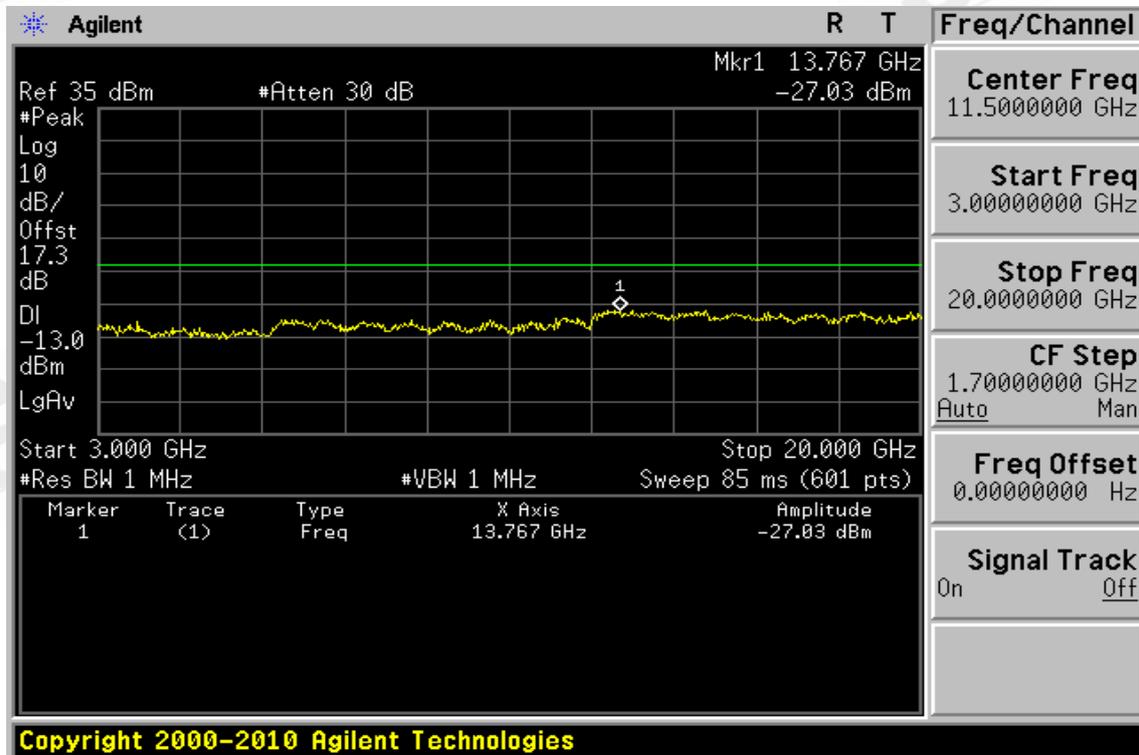
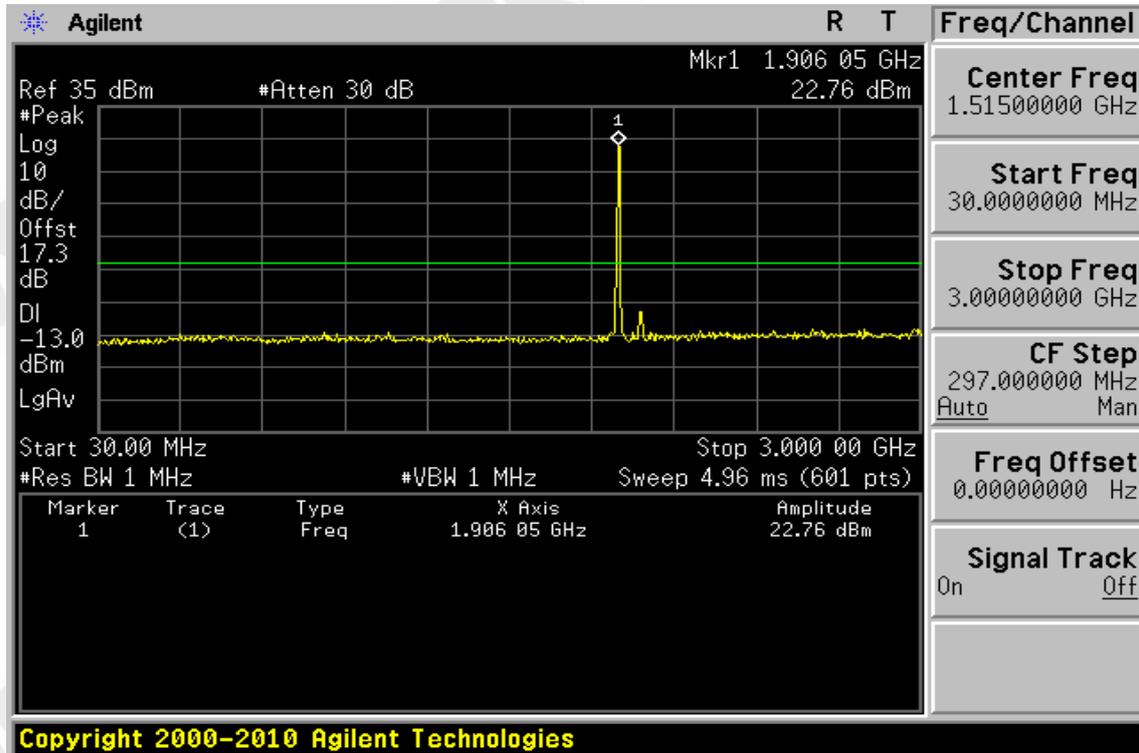


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Figure 9-53: Out of Band emission at antenna terminals – HSUPA II Channel Highest



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Out of Band emission at antenna terminals – HSUPA II

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|-------------|--------------|-------------|-----------|----------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 3704.80 | H | --- | -13.00 | --- |
| 5557.20 | H | --- | -13.00 | --- |
| 7409.60 | H | --- | -13.00 | --- |
| 9262.00 | H | --- | -13.00 | --- |
| 11114.40 | H | --- | -13.00 | --- |
| 12966.80 | H | --- | -13.00 | --- |
| 13568.00 | S | -26.90 | -13.00 | 13.90 |
| 14819.20 | H | --- | -13.00 | --- |
| 16671.60 | H | --- | -13.00 | --- |
| 18524.00 | H | --- | -13.00 | --- |

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

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 3760.00 | H | --- | -13.00 | --- |
| 5640.00 | H | --- | -13.00 | --- |
| 7520.00 | H | --- | -13.00 | --- |
| 9400.00 | H | --- | -13.00 | --- |
| 11280.00 | H | --- | -13.00 | --- |
| 13160.00 | H | --- | -13.00 | --- |
| 13880.00 | S | -26.05 | -13.00 | 13.05 |
| 15040.00 | H | --- | -13.00 | --- |
| 16920.00 | H | --- | -13.00 | --- |
| 18800.00 | H | --- | -13.00 | --- |

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

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 3815.20 | H | --- | -13.00 | --- |
| 5722.80 | H | --- | -13.00 | --- |
| 7630.40 | H | --- | -13.00 | --- |
| 9538.00 | H | --- | -13.00 | --- |
| 11445.60 | H | --- | -13.00 | --- |
| 13353.20 | H | --- | -13.00 | --- |
| 13767.00 | S | -27.03 | -13.00 | 14.03 |
| 15260.80 | H | --- | -13.00 | --- |
| 17168.40 | H | --- | -13.00 | --- |
| 19076.00 | H | --- | -13.00 | --- |

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

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

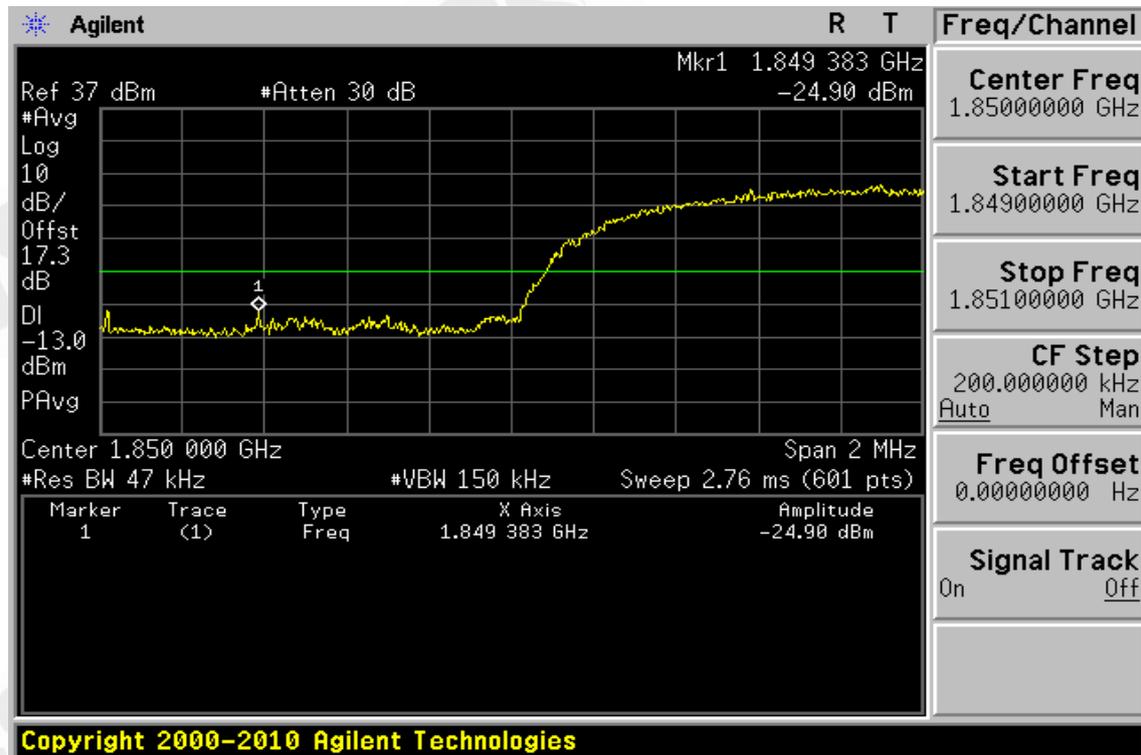
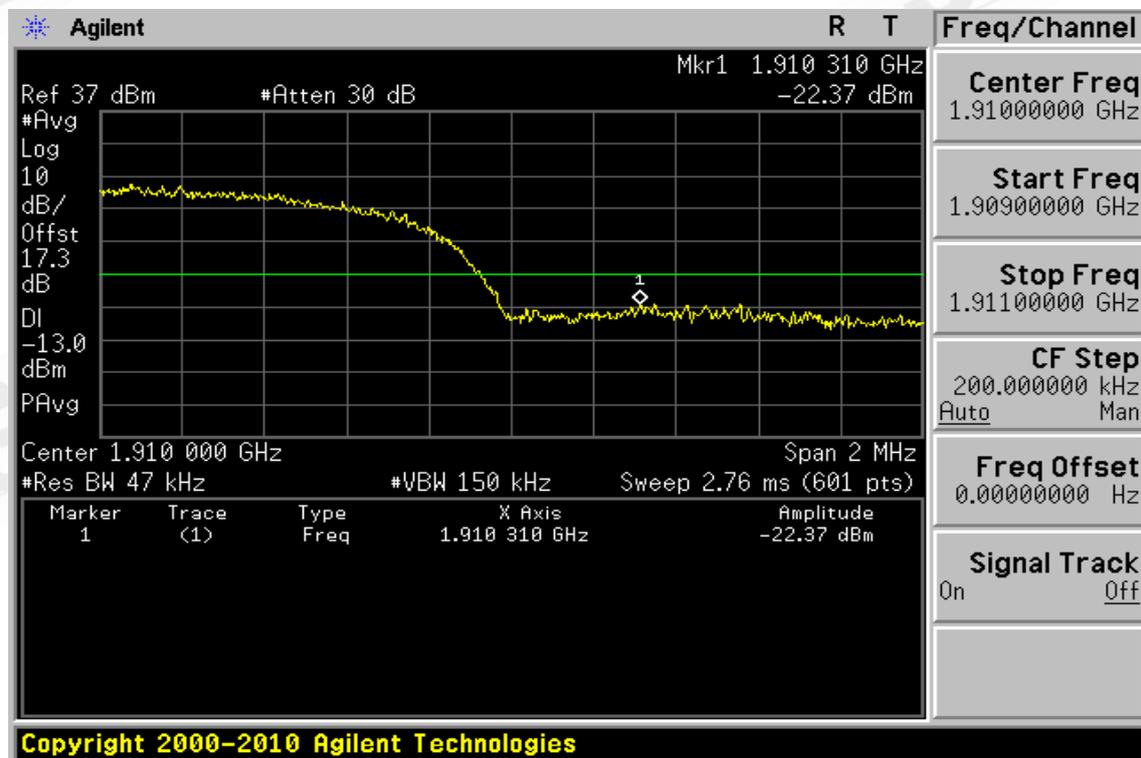


Figure 9-55: Band edge emission at antenna terminals – HSUPA II Channel Highest



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

Test Mode HSUPA II Engineer :Jimmy

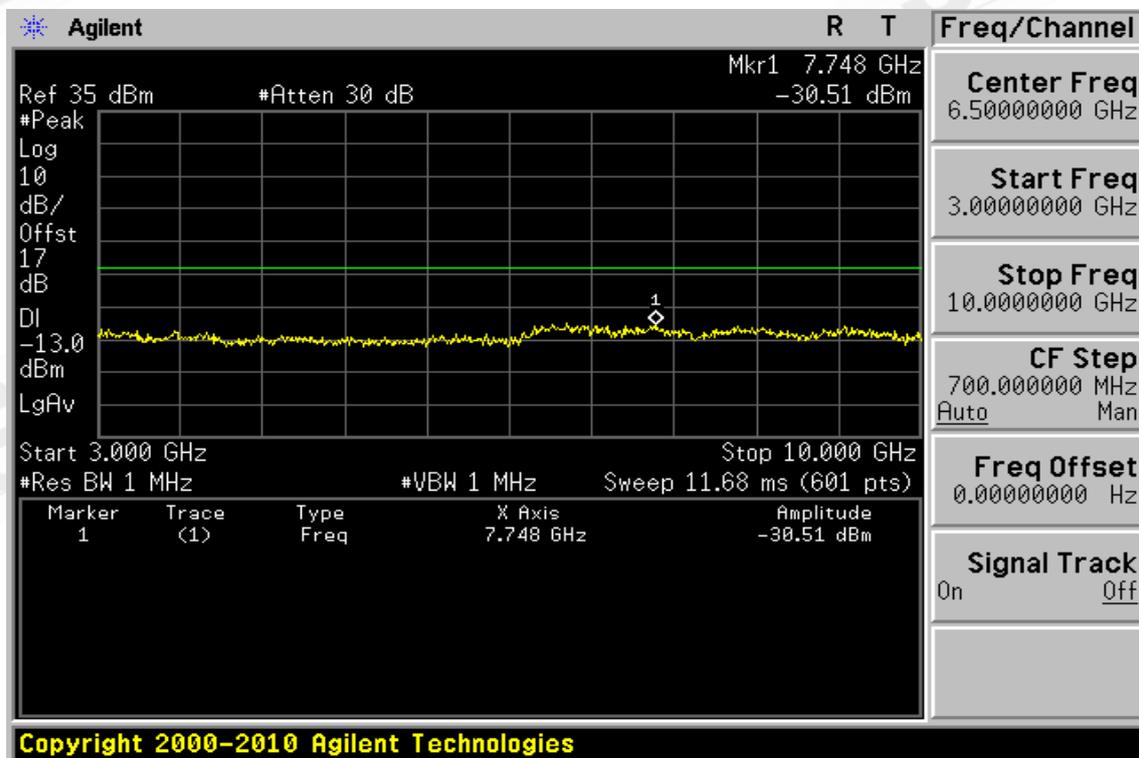
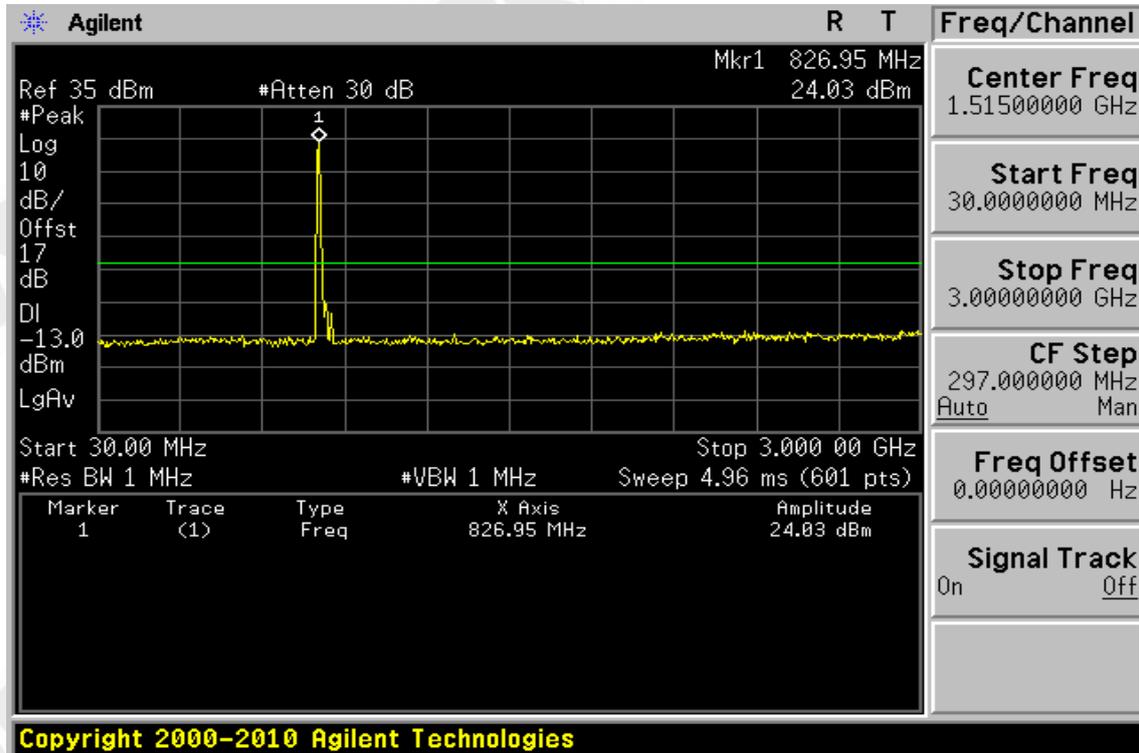
| Freq. MHz | Reading dBm | Limit dBm | Safe Margin dB |
|--------------|----------------|--------------|----------------------|
| 1849.383 | -24.9 | -13.00 | 11.90 |
| 1910.310 | -22.37 | -13.00 | 9.37 |

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

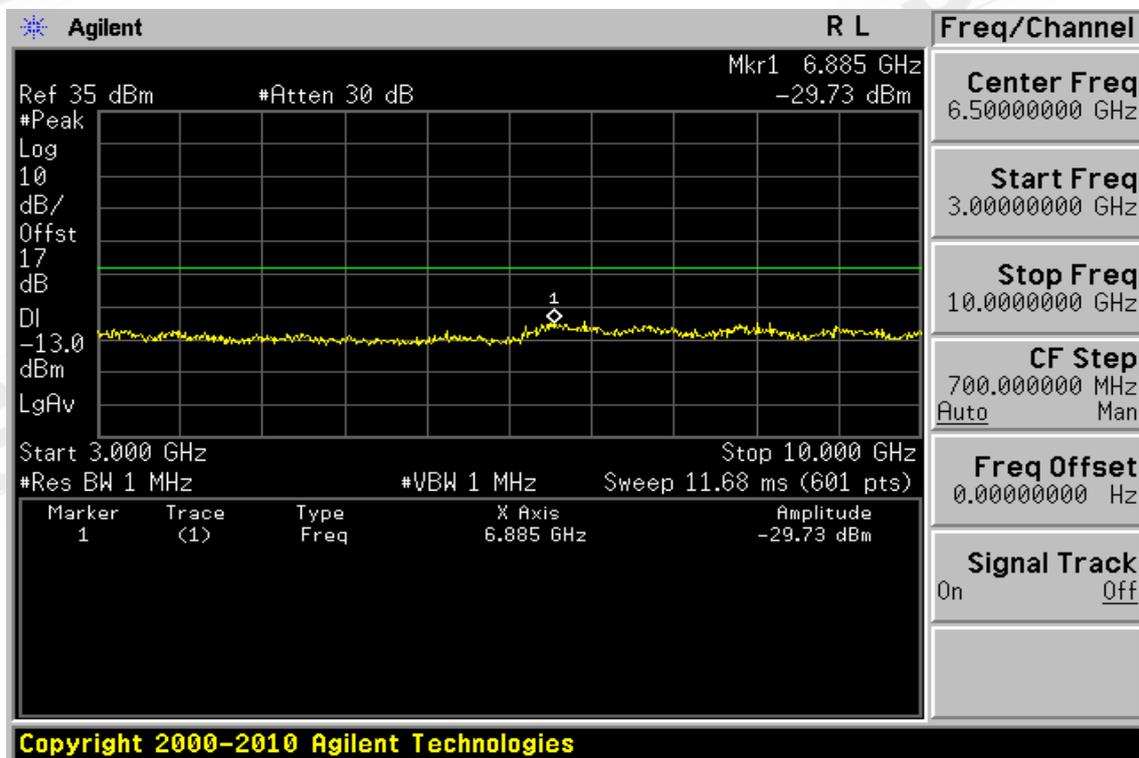
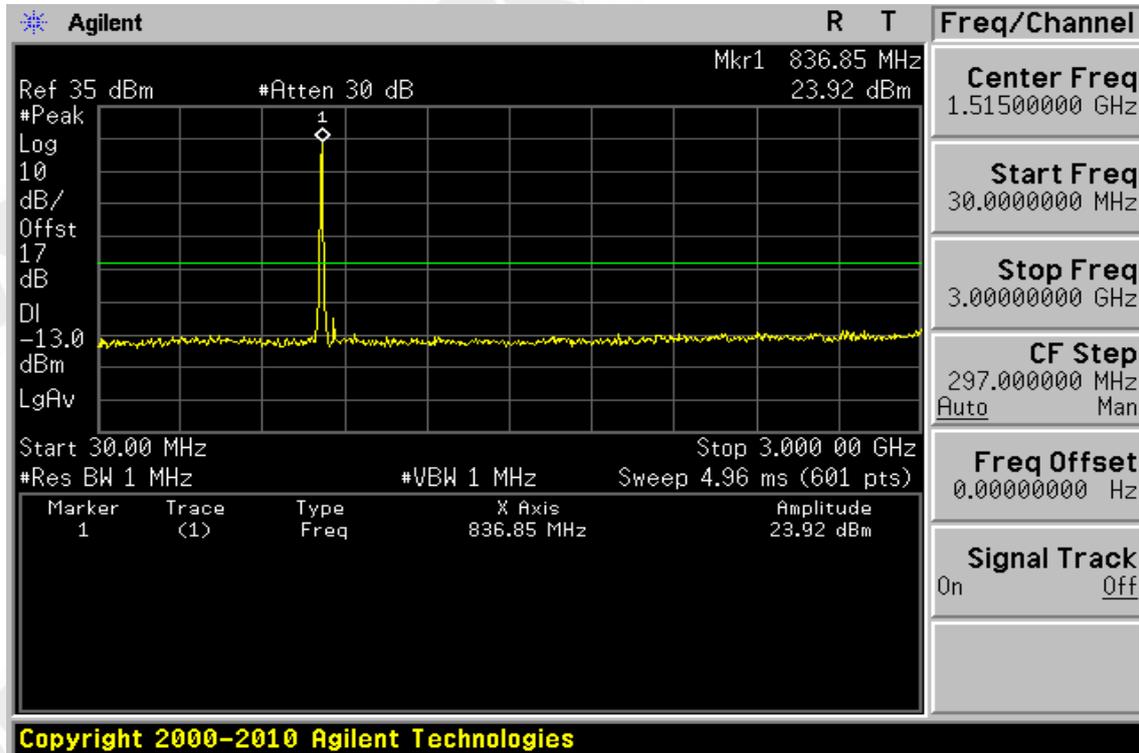


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Figure 9-57: Out of Band emission at antenna terminals – HSUPA V Channel Mid

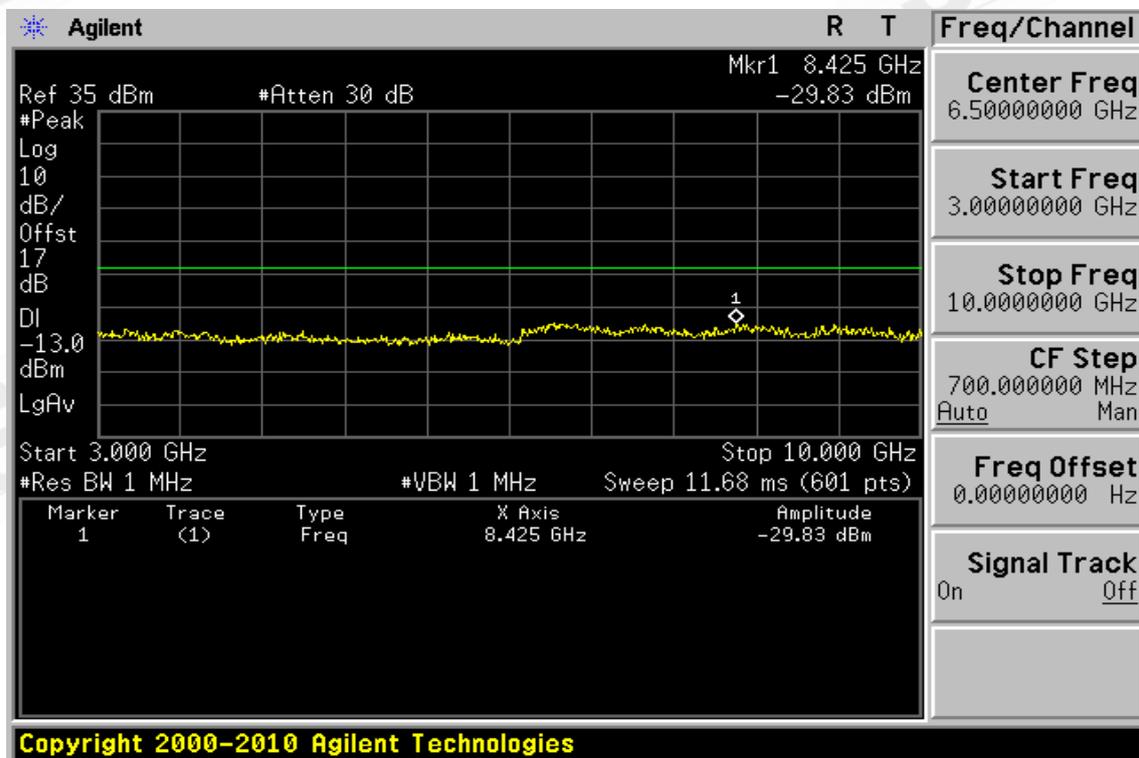
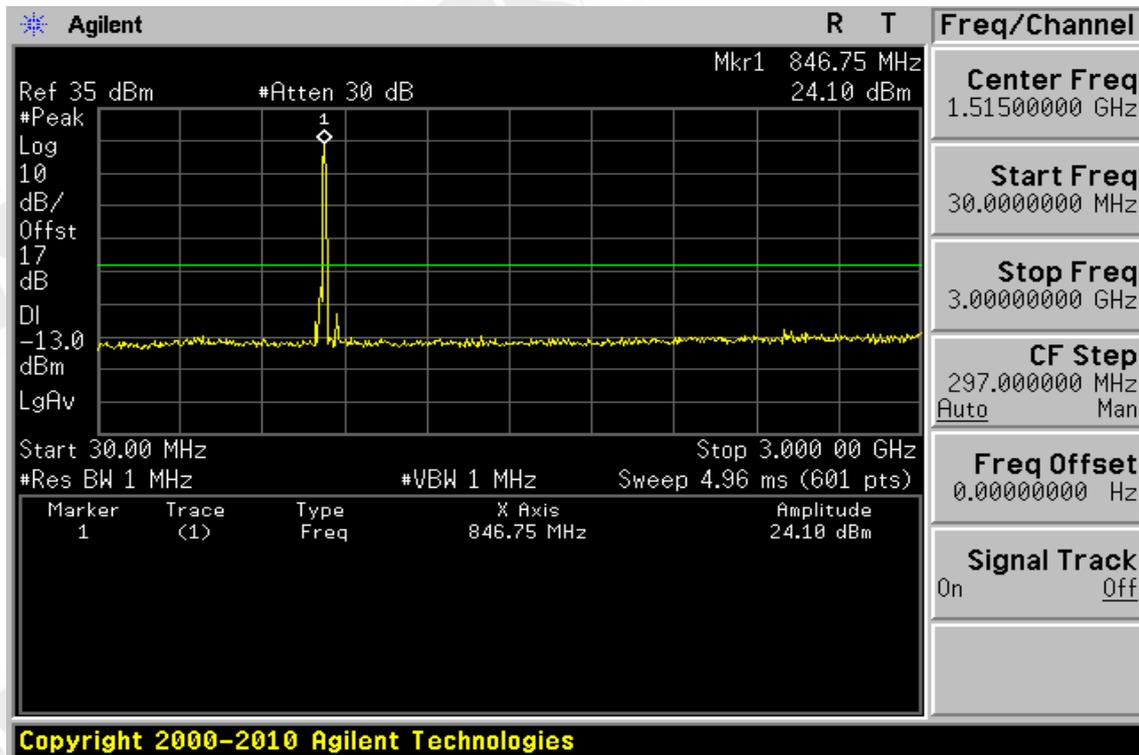


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Figure 9-58: Out of Band emission at antenna terminals – HSUPA V Channel Highest



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Out of Band emission at antenna terminals – HSUPA V

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 1652.80 | H | --- | -13.00 | --- |
| 2479.20 | H | --- | -13.00 | --- |
| 3305.60 | H | --- | -13.00 | --- |
| 4132.00 | H | --- | -13.00 | --- |
| 4958.40 | H | --- | -13.00 | --- |
| 5784.80 | H | --- | -13.00 | --- |
| 6611.20 | H | --- | -13.00 | --- |
| 7437.60 | H | --- | -13.00 | --- |
| 7748.00 | S | -30.51 | -13.00 | 17.51 |
| 8264.00 | H | --- | -13.00 | --- |

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

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|-------------|--------------|-------------|-----------|----------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 1673.20 | H | --- | -13.00 | --- |
| 2509.80 | H | --- | -13.00 | --- |
| 3346.40 | H | --- | -13.00 | --- |
| 4183.00 | H | --- | -13.00 | --- |
| 5019.60 | H | --- | -13.00 | --- |
| 5856.20 | H | --- | -13.00 | --- |
| 6692.80 | H | --- | -13.00 | --- |
| 6885.00 | S | -29.73 | -13.00 | 16.73 |
| 7529.40 | H | --- | -13.00 | --- |
| 8366.00 | H | --- | -13.00 | --- |

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

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

| Freq. (MHz) | Note F/H/E/S | Reading dBm | Limit dBm | Safe Margin dB |
|-------------|--------------|-------------|-----------|----------------|
| <30 | S | --- | -13.00 | --- |
| 30-1000 | S | --- | -13.00 | --- |
| 1693.20 | H | --- | -13.00 | --- |
| 2539.80 | H | --- | -13.00 | --- |
| 3386.40 | H | --- | -13.00 | --- |
| 4233.00 | H | --- | -13.00 | --- |
| 5079.60 | H | --- | -13.00 | --- |
| 5926.20 | H | --- | -13.00 | --- |
| 6772.80 | H | --- | -13.00 | --- |
| 7619.40 | H | --- | -13.00 | --- |
| 8425.00 | S | -29.83 | -13.00 | 16.83 |
| 8466.00 | H | --- | -13.00 | --- |

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

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

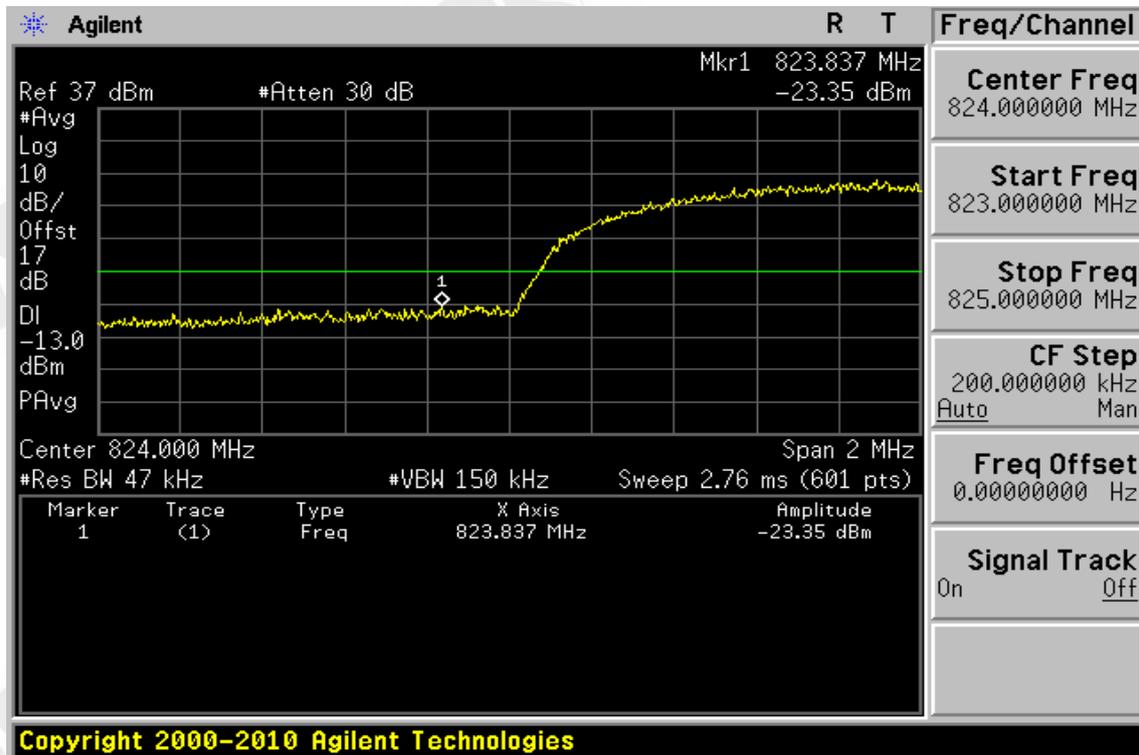
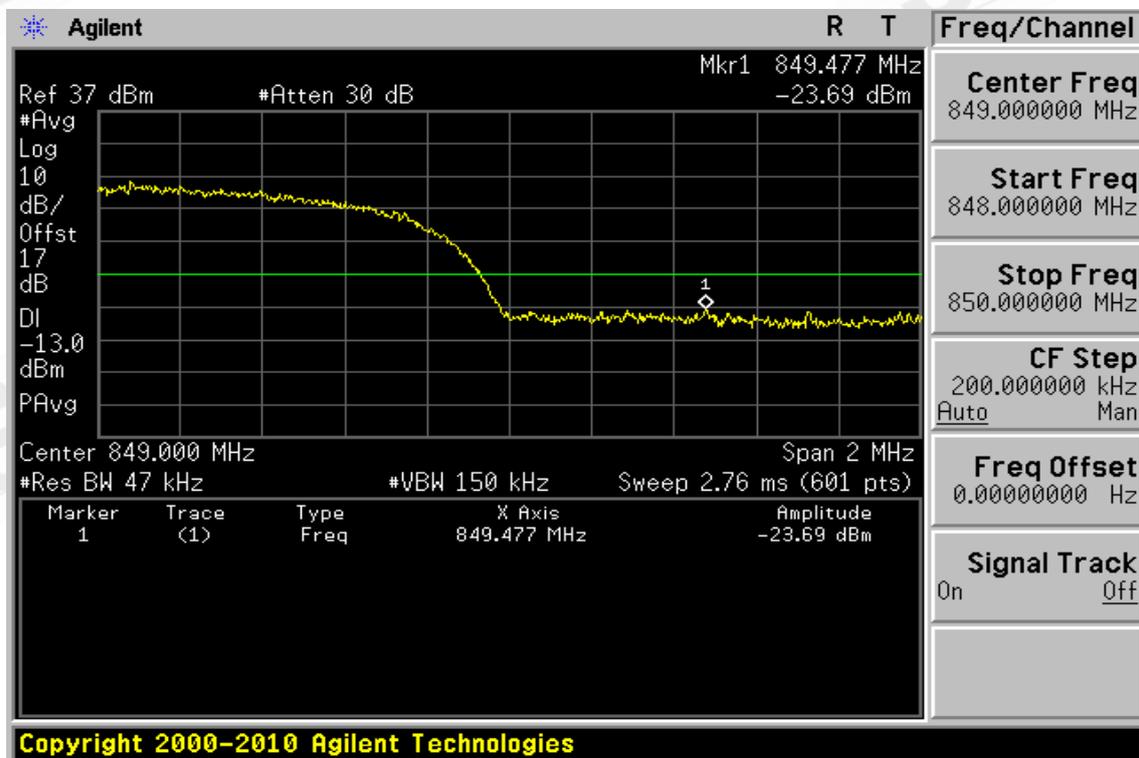


Figure 9-60: Band edge emission at antenna terminals – HSUPA V Channel Highest



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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1. Standard Applicable:

According to FCC §2.1053,

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

According to RSS-132 §4.5

4.5.1 Out-of-block Emissions

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

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

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

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

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

According to RSS-133 §6.5

6.5.1 Out-of-Block Emissions

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

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

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

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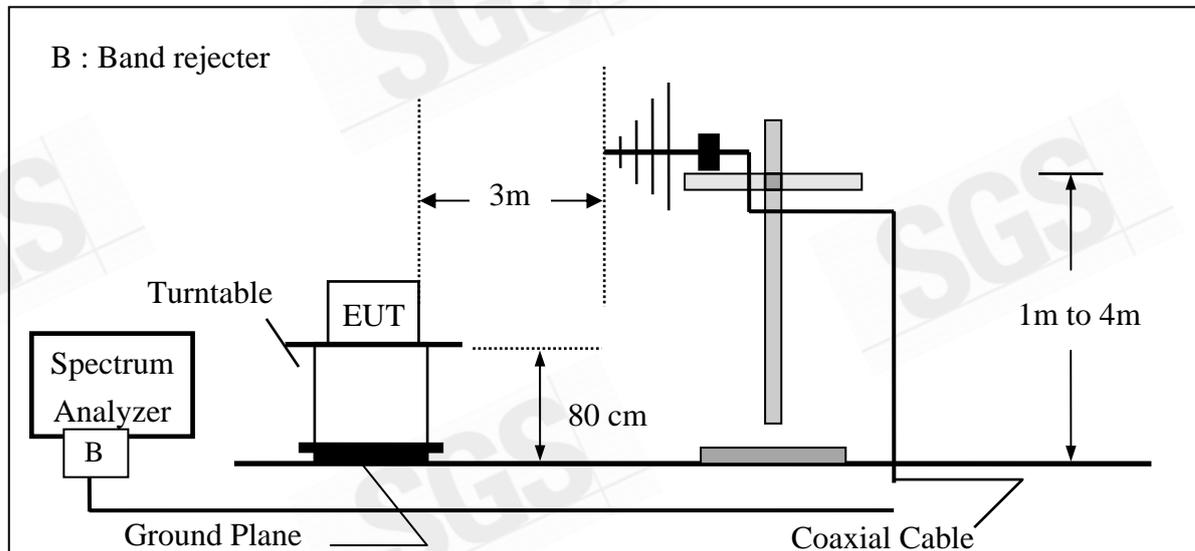
(Note: If the test result using 1% of the emission bandwidth is used, then power integration over 1.0 MHz is required; alternatively, the spectrum analyzer resolution and video bandwidths can be increased to 1.0 MHz for this measurement).

6.5.2 Out-of-Sub-band Emissions

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

10.2. EUT Setup (Block Diagram of Configuration):

Radiated Emission Test Set-Up, Frequency Below 1000MHz

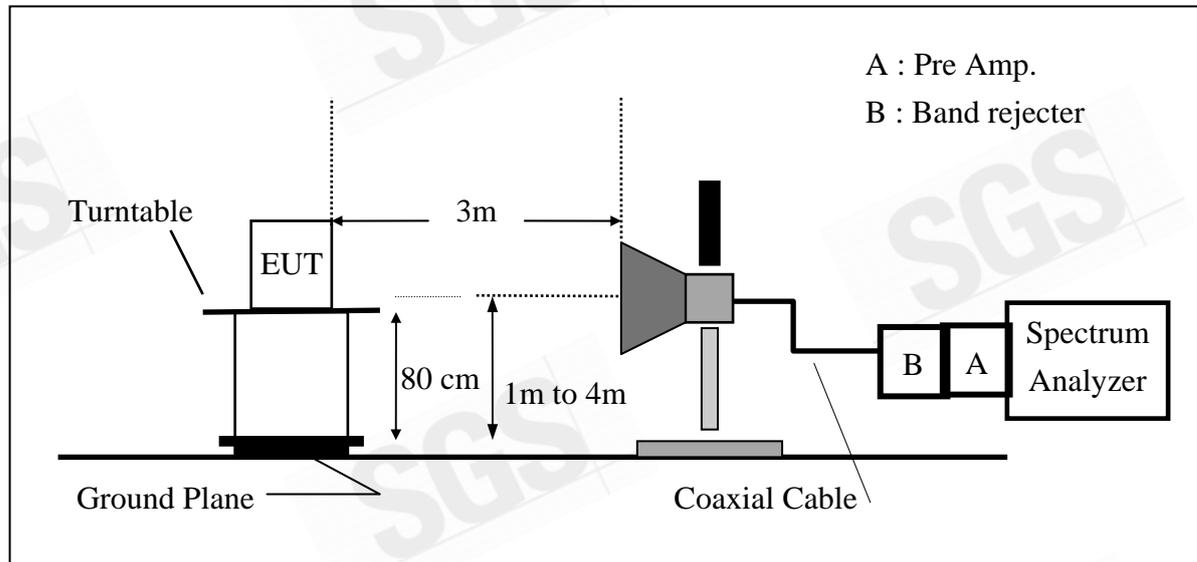


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Radiated Emission Test Set-UP Frequency Over 1 GHz



10.3. Measurement Procedure:

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

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

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

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

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

10.4. Measurement Equipment Used:

Refer to section 2.4 in this report

10.5. Measurement Result:

Refer to attach tabular data sheets.

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

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Band :GPRS 850 Test Date :2012-07-06
ARFCN :CH 128 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :824.2 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :H PLAN Measurement Antenna Pol. :VERTICAL

| Freq. MHz | Note F/H/E/S | ERP dBm | SG Output Level dBm | Antenna Gain dBd | Cable Loss dB | Limit dBm | Safe Margin dB |
|--------------|-----------------|------------|---------------------------|------------------------|---------------------|--------------|----------------------|
| 99.84 | S | -82.18 | -78.47 | -0.99 | -2.72 | -13.00 | -69.18 |
| 110.51 | S | -81.22 | -77.42 | -1.09 | -2.72 | -13.00 | -68.22 |
| 289.96 | S | -88.27 | -89.60 | 4.55 | -3.22 | -13.00 | -75.27 |
| 366.59 | S | -84.66 | -85.90 | 4.67 | -3.43 | -13.00 | -71.66 |
| 598.42 | S | -81.96 | -82.09 | 4.05 | -3.92 | -13.00 | -68.96 |
| 665.35 | S | -80.68 | -80.67 | 4.13 | -4.14 | -13.00 | -67.68 |
| 1648.40 | H | -48.88 | -45.91 | 2.39 | -5.36 | -13.00 | -35.88 |
| 2472.60 | H | -55.19 | -52.18 | 3.14 | -6.15 | -13.00 | -42.19 |
| 3296.80 | H | --- | | | | | |
| 4121.00 | H | --- | | | | | |
| 4945.20 | H | --- | | | | | |
| 5769.40 | H | --- | | | | | |
| 6593.60 | H | --- | | | | | |
| 7417.80 | H | --- | | | | | |
| 8242.00 | H | --- | | | | | |

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

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

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Operation Band :GPRS 850 Test Date :2012-07-06
ARFCN :CH 128 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :824.2 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :H PLAN Measurement Antenna Pol. :HORIZONTAL

| Freq. MHz | Note F/H/E/S | ERP dBm | SG Output Level dBm | Antenna Gain dBd | Cable Loss dB | Limit dBm | Safe Margin dB |
|--------------|-----------------|------------|---------------------------|------------------------|---------------------|--------------|----------------------|
| 62.01 | S | -91.07 | -80.72 | -7.76 | -2.59 | -13.00 | -78.07 |
| 137.67 | S | -88.27 | -84.29 | -1.20 | -2.79 | -13.00 | -75.27 |
| 299.66 | S | -76.82 | -78.23 | 4.67 | -3.25 | -13.00 | -63.82 |
| 380.17 | S | -84.15 | -85.37 | 4.65 | -3.43 | -13.00 | -71.15 |
| 567.38 | S | -82.66 | -83.17 | 4.38 | -3.87 | -13.00 | -69.66 |
| 699.30 | S | -81.39 | -81.48 | 4.15 | -4.07 | -13.00 | -68.39 |
| 1648.40 | H | -47.08 | -44.40 | 2.68 | -5.36 | -13.00 | -34.08 |
| 2472.60 | H | -58.97 | -56.33 | 3.52 | -6.15 | -13.00 | -45.97 |
| 3296.80 | H | --- | | | | | |
| 4121.00 | H | --- | | | | | |
| 4945.20 | H | --- | | | | | |
| 5769.40 | H | --- | | | | | |
| 6593.60 | H | --- | | | | | |
| 7417.80 | H | --- | | | | | |
| 8242.00 | H | --- | | | | | |

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

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

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Operation Band :GPRS 850 Test Date :2012-07-06
ARFCN :CH 190 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :836.6 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :H PLAN Measurement Antenna Pol. :VERTICAL

| Freq. MHz | Note F/H/E/S | ERP dBm | SG Output Level dBm | Antenna Gain dBd | Cable Loss dB | Limit dBm | Safe Margin dB |
|--------------|-----------------|------------|---------------------------|------------------------|---------------------|--------------|----------------------|
| 99.84 | S | -81.82 | -78.11 | -0.99 | -2.72 | -13.00 | -68.82 |
| 110.51 | S | -82.16 | -78.36 | -1.09 | -2.72 | -13.00 | -69.16 |
| 283.17 | S | -89.16 | -90.40 | 4.46 | -3.22 | -13.00 | -76.16 |
| 361.74 | S | -84.77 | -86.04 | 4.70 | -3.43 | -13.00 | -71.77 |
| 596.48 | S | -81.92 | -82.06 | 4.07 | -3.92 | -13.00 | -68.92 |
| 694.45 | S | -80.89 | -80.97 | 4.15 | -4.07 | -13.00 | -67.89 |
| 1673.20 | H | -49.99 | -46.98 | 2.33 | -5.34 | -13.00 | -36.99 |
| 2509.80 | H | -55.69 | -52.75 | 3.19 | -6.13 | -13.00 | -42.69 |
| 3346.40 | H | --- | | | | | |
| 4183.00 | H | --- | | | | | |
| 5019.60 | H | --- | | | | | |
| 5856.20 | H | --- | | | | | |
| 6692.80 | H | --- | | | | | |
| 7529.40 | H | --- | | | | | |
| 8366.00 | H | --- | | | | | |

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

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

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Operation Band :GPRS 850 Test Date :2012-07-06
ARFCN :CH 190 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :836.6 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :H PLAN Measurement Antenna Pol. :HORIZONTAL

| Freq. MHz | Note F/H/E/S | ERP dBm | SG Output Level dBm | Antenna Gain dBd | Cable Loss dB | Limit dBm | Safe Margin dB |
|--------------|-----------------|------------|---------------------------|------------------------|---------------------|--------------|----------------------|
| 64.92 | S | -91.09 | -81.48 | -7.02 | -2.59 | -13.00 | -78.09 |
| 142.52 | S | -88.66 | -84.60 | -1.28 | -2.79 | -13.00 | -75.66 |
| 286.08 | S | -87.01 | -88.29 | 4.50 | -3.22 | -13.00 | -74.01 |
| 365.62 | S | -85.05 | -86.30 | 4.68 | -3.43 | -13.00 | -72.05 |
| 563.50 | S | -82.73 | -83.28 | 4.43 | -3.87 | -13.00 | -69.73 |
| 699.30 | S | -80.31 | -80.40 | 4.15 | -4.07 | -13.00 | -67.31 |
| 1673.20 | H | -49.68 | -47.00 | 2.66 | -5.34 | -13.00 | -36.68 |
| 2509.80 | H | -55.36 | -52.79 | 3.55 | -6.13 | -13.00 | -42.36 |
| 3346.40 | H | --- | | | | | |
| 4183.00 | H | --- | | | | | |
| 5019.60 | H | --- | | | | | |
| 5856.20 | H | --- | | | | | |
| 6692.80 | H | --- | | | | | |
| 7529.40 | H | --- | | | | | |
| 8366.00 | H | --- | | | | | |

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

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

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Operation Band :GPRS 850 Test Date :2012-07-06
ARFCN :CH 251 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :848.8 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :H PLAN Measurement Antenna Pol. :VERTICAL

| Freq. MHz | Note F/H/E/S | ERP dBm | SG Output Level dBm | Antenna Gain dBd | Cable Loss dB | Limit dBm | Safe Margin dB |
|--------------|-----------------|------------|---------------------------|------------------------|---------------------|--------------|----------------------|
| 99.84 | S | -82.26 | -78.55 | -0.99 | -2.72 | -13.00 | -69.26 |
| 110.51 | S | -80.60 | -76.80 | -1.09 | -2.72 | -13.00 | -67.60 |
| 297.72 | S | -87.72 | -89.11 | 4.64 | -3.25 | -13.00 | -74.72 |
| 386.96 | S | -85.08 | -86.22 | 4.69 | -3.56 | -13.00 | -72.08 |
| 599.39 | S | -82.34 | -82.45 | 4.04 | -3.92 | -13.00 | -69.34 |
| 697.36 | S | -81.31 | -81.39 | 4.15 | -4.07 | -13.00 | -68.31 |
| 1697.60 | H | -48.95 | -45.83 | 2.29 | -5.40 | -13.00 | -35.95 |
| 2546.40 | H | -56.32 | -53.39 | 3.30 | -6.24 | -13.00 | -43.32 |
| 3395.20 | H | --- | | | | | |
| 4244.00 | H | --- | | | | | |
| 5092.80 | H | --- | | | | | |
| 5941.60 | H | --- | | | | | |
| 6790.40 | H | --- | | | | | |
| 7639.20 | H | --- | | | | | |
| 8488.00 | H | --- | | | | | |

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

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

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Operation Band :GPRS 850 Test Date :2012-07-06
ARFCN :CH 251 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :848.8 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :H PLAN Measurement Antenna Pol. :HORIZONTAL

| Freq. MHz | Note F/H/E/S | ERP dBm | SG Output Level dBm | Antenna Gain dBd | Cable Loss dB | Limit dBm | Safe Margin dB |
|--------------|-----------------|------------|---------------------------|------------------------|---------------------|--------------|----------------------|
| 63.95 | S | -90.36 | -80.51 | -7.26 | -2.59 | -13.00 | -77.36 |
| 136.70 | S | -88.30 | -84.37 | -1.14 | -2.79 | -13.00 | -75.30 |
| 286.08 | S | -87.30 | -88.58 | 4.50 | -3.22 | -13.00 | -74.30 |
| 384.05 | S | -85.13 | -86.24 | 4.67 | -3.56 | -13.00 | -72.13 |
| 593.57 | S | -82.10 | -82.30 | 4.10 | -3.90 | -13.00 | -69.10 |
| 695.42 | S | -80.97 | -81.05 | 4.15 | -4.07 | -13.00 | -67.97 |
| 1697.60 | H | -50.57 | -47.82 | 2.65 | -5.40 | -13.00 | -37.57 |
| 2546.40 | H | -54.42 | -51.85 | 3.66 | -6.24 | -13.00 | -41.42 |
| 3395.20 | H | --- | | | | | |
| 4244.00 | H | --- | | | | | |
| 5092.80 | H | --- | | | | | |
| 5941.60 | H | --- | | | | | |
| 6790.40 | H | --- | | | | | |
| 7639.20 | H | --- | | | | | |
| 8488.00 | H | --- | | | | | |

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

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

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Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Band :GSM 1900 Test Date :2012-07-06
ARFCN :CH 512 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :1850.2 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit dBm | Safe Margin dB |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------------|----------------------|
| 99.84 | S | -81.02 | -79.46 | 1.16 | -2.72 | -13.00 | -68.02 |
| 110.51 | S | -78.94 | -77.29 | 1.06 | -2.72 | -13.00 | -65.94 |
| 294.81 | S | -86.28 | -89.78 | 6.76 | -3.25 | -13.00 | -73.28 |
| 388.90 | S | -82.60 | -85.90 | 6.86 | -3.56 | -13.00 | -69.60 |
| 527.61 | S | -79.95 | -82.97 | 6.79 | -3.77 | -13.00 | -66.95 |
| 678.93 | S | -78.42 | -80.61 | 6.29 | -4.10 | -13.00 | -65.42 |
| 3700.40 | H | -43.88 | -44.30 | 7.40 | -6.98 | -13.00 | -30.88 |
| 5550.60 | H | -51.89 | -52.51 | 8.99 | -8.37 | -13.00 | -38.89 |
| 7400.80 | H | --- | | | | | |
| 9251.00 | H | --- | | | | | |
| 11101.20 | H | --- | | | | | |
| 12951.40 | H | --- | | | | | |
| 14801.60 | H | --- | | | | | |
| 16651.80 | H | --- | | | | | |
| 18502.00 | H | --- | | | | | |

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

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

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Operation Band :GSM 1900 Test Date :2012-07-06
ARFCN :CH 512 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :1850.2 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit dBm | Safe Margin dB |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------------|----------------------|
| 65.89 | S | -89.30 | -82.08 | -4.63 | -2.59 | -13.00 | -76.30 |
| 133.79 | S | -86.43 | -84.84 | 1.20 | -2.79 | -13.00 | -73.43 |
| 286.08 | S | -84.66 | -88.09 | 6.65 | -3.22 | -13.00 | -71.66 |
| 396.66 | S | -81.94 | -85.29 | 6.91 | -3.56 | -13.00 | -68.94 |
| 584.84 | S | -80.14 | -82.59 | 6.34 | -3.90 | -13.00 | -67.14 |
| 700.27 | S | -79.11 | -81.34 | 6.30 | -4.07 | -13.00 | -66.11 |
| 3700.40 | H | -55.88 | -55.82 | 6.92 | -6.98 | -13.00 | -42.88 |
| 5550.60 | H | -51.36 | -51.27 | 8.27 | -8.37 | -13.00 | -38.36 |
| 7400.80 | H | --- | | | | | |
| 9251.00 | H | --- | | | | | |
| 11101.20 | H | --- | | | | | |
| 12951.40 | H | --- | | | | | |
| 14801.60 | H | --- | | | | | |
| 16651.80 | H | --- | | | | | |
| 18502.00 | H | --- | | | | | |

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

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

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Operation Band :GSM 1900 Test Date :2012-07-06
ARFCN :CH 661 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :1880.0 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit dBm | Safe Margin dB |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------------|----------------------|
| 99.84 | S | -80.88 | -79.32 | 1.16 | -2.72 | -13.00 | -67.88 |
| 110.51 | S | -80.10 | -78.45 | 1.06 | -2.72 | -13.00 | -67.10 |
| 286.08 | S | -86.05 | -89.48 | 6.65 | -3.22 | -13.00 | -73.05 |
| 384.05 | S | -82.42 | -85.69 | 6.82 | -3.56 | -13.00 | -69.42 |
| 500.45 | S | -80.44 | -83.61 | 6.87 | -3.70 | -13.00 | -67.44 |
| 700.27 | S | -78.60 | -80.83 | 6.30 | -4.07 | -13.00 | -65.60 |
| 3760.00 | H | -45.12 | -45.43 | 7.42 | -7.12 | -13.00 | -32.12 |
| 5640.00 | H | -51.59 | -52.34 | 9.01 | -8.26 | -13.00 | -38.59 |
| 7520.00 | H | --- | | | | | |
| 9400.00 | H | --- | | | | | |
| 11280.00 | H | --- | | | | | |
| 13160.00 | H | --- | | | | | |
| 15040.00 | H | --- | | | | | |
| 16920.00 | H | --- | | | | | |
| 18800.00 | H | --- | | | | | |

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

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

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Operation Band :GSM 1900 Test Date :2012-07-06
ARFCN :CH 661 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :1880.0 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit dBm | Safe Margin dB |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------------|----------------------|
| 58.13 | S | -88.91 | -79.71 | -6.61 | -2.59 | -13.00 | -75.91 |
| 136.70 | S | -86.57 | -84.79 | 1.01 | -2.79 | -13.00 | -73.57 |
| 286.08 | S | -85.76 | -89.19 | 6.65 | -3.22 | -13.00 | -72.76 |
| 397.63 | S | -82.35 | -85.71 | 6.91 | -3.56 | -13.00 | -69.35 |
| 581.93 | S | -80.67 | -83.15 | 6.37 | -3.90 | -13.00 | -67.67 |
| 692.51 | S | -79.25 | -81.48 | 6.30 | -4.07 | -13.00 | -66.25 |
| 3760.00 | H | -54.15 | -53.89 | 6.85 | -7.12 | -13.00 | -41.15 |
| 5640.00 | H | -51.19 | -51.23 | 8.30 | -8.26 | -13.00 | -38.19 |
| 7520.00 | H | --- | | | | | |
| 9400.00 | H | --- | | | | | |
| 11280.00 | H | --- | | | | | |
| 13160.00 | H | --- | | | | | |
| 15040.00 | H | --- | | | | | |
| 16920.00 | H | --- | | | | | |
| 18800.00 | H | --- | | | | | |

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

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

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Operation Band :GSM 1900 Test Date :2012-07-06
ARFCN :CH 810 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :1909.8 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit dBm | Safe Margin dB |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------------|----------------------|
| 99.84 | S | -80.40 | -78.84 | 1.16 | -2.72 | -13.00 | -67.40 |
| 110.51 | S | -79.30 | -77.64 | 1.06 | -2.72 | -13.00 | -66.30 |
| 299.66 | S | -86.40 | -89.96 | 6.82 | -3.25 | -13.00 | -73.40 |
| 393.75 | S | -82.20 | -85.53 | 6.89 | -3.56 | -13.00 | -69.20 |
| 548.95 | S | -80.47 | -83.35 | 6.73 | -3.85 | -13.00 | -67.47 |
| 696.39 | S | -79.23 | -81.46 | 6.30 | -4.07 | -13.00 | -66.23 |
| 3819.60 | H | -49.05 | -49.37 | 7.51 | -7.20 | -13.00 | -36.05 |
| 5729.40 | H | -51.71 | -52.29 | 9.03 | -8.44 | -13.00 | -38.71 |
| 7639.20 | H | --- | | | | | |
| 9549.00 | H | --- | | | | | |
| 11458.80 | H | --- | | | | | |
| 13368.60 | H | --- | | | | | |
| 15278.40 | H | --- | | | | | |
| 17188.20 | H | --- | | | | | |
| 19098.00 | H | --- | | | | | |

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

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

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Operation Band :GSM 1900 Test Date :2012-07-06
ARFCN :CH 810 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :1909.8 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit dBm | Safe Margin dB |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------------|----------------------|
| 60.07 | S | -88.41 | -79.69 | -6.13 | -2.59 | -13.00 | -75.41 |
| 137.67 | S | -86.23 | -84.39 | 0.95 | -2.79 | -13.00 | -73.23 |
| 286.08 | S | -85.33 | -88.76 | 6.65 | -3.22 | -13.00 | -72.33 |
| 392.78 | S | -82.21 | -85.53 | 6.88 | -3.56 | -13.00 | -69.21 |
| 599.39 | S | -80.47 | -82.73 | 6.19 | -3.92 | -13.00 | -67.47 |
| 678.93 | S | -79.00 | -81.19 | 6.29 | -4.10 | -13.00 | -66.00 |
| 3819.60 | H | -55.34 | -55.19 | 7.05 | -7.20 | -13.00 | -42.34 |
| 5729.40 | H | -49.31 | -49.19 | 8.32 | -8.44 | -13.00 | -36.31 |
| 7639.20 | H | --- | | | | | |
| 9549.00 | H | --- | | | | | |
| 11458.80 | H | --- | | | | | |
| 13368.60 | H | --- | | | | | |
| 15278.40 | H | --- | | | | | |
| 17188.20 | H | --- | | | | | |
| 19098.00 | H | --- | | | | | |

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

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

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Radiated Spurious Emission Measurement Result: HSUPA II Mode

Operation Band :HSUPA B2 Test Date :2012-07-06
ARFCN :CH 9262 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :1852.4 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit dBm | Safe Margin dB |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------------|----------------------|
| 99.84 | S | -79.59 | -78.03 | 1.16 | -2.72 | -13.00 | -66.59 |
| 110.51 | S | -80.58 | -78.93 | 1.06 | -2.72 | -13.00 | -67.58 |
| 294.81 | S | -86.20 | -89.70 | 6.76 | -3.25 | -13.00 | -73.20 |
| 386.96 | S | -82.73 | -86.01 | 6.84 | -3.56 | -13.00 | -69.73 |
| 547.01 | S | -80.16 | -83.04 | 6.74 | -3.85 | -13.00 | -67.16 |
| 698.33 | S | -78.98 | -81.21 | 6.30 | -4.07 | -13.00 | -65.98 |
| 3704.80 | H | -26.86 | -27.28 | 7.40 | -6.98 | -13.00 | -13.86 |
| 5557.20 | H | -51.65 | -52.35 | 8.99 | -8.28 | -13.00 | -38.65 |
| 7409.60 | H | --- | | | | | |
| 9262.00 | H | --- | | | | | |
| 11114.40 | H | --- | | | | | |
| 12966.80 | H | --- | | | | | |
| 14819.20 | H | --- | | | | | |
| 16671.60 | H | --- | | | | | |
| 18524.00 | H | --- | | | | | |

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

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

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Operation Band :HSUPA B2 Test Date :2012-07-06
ARFCN :CH 9262 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :1852.4 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit dBm | Safe Margin dB |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------------|----------------------|
| 62.01 | S | -88.78 | -80.58 | -5.61 | -2.59 | -13.00 | -75.78 |
| 133.79 | S | -86.05 | -84.46 | 1.20 | -2.79 | -13.00 | -73.05 |
| 286.08 | S | -85.55 | -88.98 | 6.65 | -3.22 | -13.00 | -72.55 |
| 393.75 | S | -82.77 | -86.10 | 6.89 | -3.56 | -13.00 | -69.77 |
| 579.99 | S | -80.25 | -82.75 | 6.39 | -3.90 | -13.00 | -67.25 |
| 698.33 | S | -78.99 | -81.22 | 6.30 | -4.07 | -13.00 | -65.99 |
| 3704.80 | H | -39.35 | -39.27 | 6.90 | -6.98 | -13.00 | -26.35 |
| 5557.20 | H | -51.11 | -51.10 | 8.28 | -8.28 | -13.00 | -38.11 |
| 7409.60 | H | --- | | | | | |
| 9262.00 | H | --- | | | | | |
| 11114.40 | H | --- | | | | | |
| 12966.80 | H | --- | | | | | |
| 14819.20 | H | --- | | | | | |
| 16671.60 | H | --- | | | | | |
| 18524.00 | H | --- | | | | | |

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

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

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Operation Band :HSUPA B2 Test Date :2012-07-06
ARFCN :CH 9400 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :1880.0 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit dBm | Safe Margin dB |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------------|----------------------|
| 99.84 | S | -79.78 | -78.22 | 1.16 | -2.72 | -13.00 | -66.78 |
| 110.51 | S | -79.65 | -78.00 | 1.06 | -2.72 | -13.00 | -66.65 |
| 297.72 | S | -86.33 | -89.87 | 6.79 | -3.25 | -13.00 | -73.33 |
| 377.26 | S | -81.66 | -85.01 | 6.78 | -3.43 | -13.00 | -68.66 |
| 596.48 | S | -80.00 | -82.30 | 6.22 | -3.92 | -13.00 | -67.00 |
| 700.27 | S | -78.93 | -81.16 | 6.30 | -4.07 | -13.00 | -65.93 |
| 3760.00 | H | -34.86 | -35.17 | 7.42 | -7.12 | -13.00 | -21.86 |
| 5640.00 | H | -51.19 | -51.94 | 9.01 | -8.26 | -13.00 | -38.19 |
| 7520.00 | H | --- | | | | | |
| 9400.00 | H | --- | | | | | |
| 11280.00 | H | --- | | | | | |
| 13160.00 | H | --- | | | | | |
| 15040.00 | H | --- | | | | | |
| 16920.00 | H | --- | | | | | |
| 18800.00 | H | --- | | | | | |

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

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

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Operation Band :HSUPA B2 Test Date :2012-07-06
ARFCN :CH 9400 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :1880.0 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit dBm | Safe Margin dB |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------------|----------------------|
| 59.10 | S | -88.59 | -79.63 | -6.37 | -2.59 | -13.00 | -75.59 |
| 127.97 | S | -86.48 | -85.03 | 1.31 | -2.77 | -13.00 | -73.48 |
| 269.59 | S | -84.59 | -88.03 | 6.71 | -3.27 | -13.00 | -71.59 |
| 398.60 | S | -82.42 | -85.72 | 6.92 | -3.62 | -13.00 | -69.42 |
| 587.75 | S | -79.37 | -81.78 | 6.31 | -3.90 | -13.00 | -66.37 |
| 693.48 | S | -78.89 | -81.13 | 6.30 | -4.07 | -13.00 | -65.89 |
| 3760.00 | H | -45.95 | -45.69 | 6.85 | -7.12 | -13.00 | -32.95 |
| 5640.00 | H | -51.17 | -51.20 | 8.30 | -8.26 | -13.00 | -38.17 |
| 7520.00 | H | --- | | | | | |
| 9400.00 | H | --- | | | | | |
| 11280.00 | H | --- | | | | | |
| 13160.00 | H | --- | | | | | |
| 15040.00 | H | --- | | | | | |
| 16920.00 | H | --- | | | | | |
| 18800.00 | H | --- | | | | | |

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

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

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Operation Band :HSUPA B2 Test Date :2012-07-06
ARFCN :CH 9538 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :1970.6 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E1 Plan Measurement Antenna Pol. :VERTICAL

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit dBm | Safe Margin dB |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------------|----------------------|
| 99.84 | S | -80.03 | -78.47 | 1.16 | -2.72 | -13.00 | -67.03 |
| 110.51 | S | -80.71 | -79.06 | 1.06 | -2.72 | -13.00 | -67.71 |
| 270.56 | S | -86.52 | -89.95 | 6.70 | -3.27 | -13.00 | -73.52 |
| 388.90 | S | -82.83 | -86.13 | 6.86 | -3.56 | -13.00 | -69.83 |
| 551.86 | S | -80.68 | -83.53 | 6.71 | -3.85 | -13.00 | -67.68 |
| 630.43 | S | -78.44 | -80.70 | 6.24 | -3.97 | -13.00 | -65.44 |
| 3815.20 | H | -39.35 | -39.66 | 7.50 | -7.20 | -13.00 | -26.35 |
| 5722.80 | H | -51.65 | -52.24 | 9.03 | -8.44 | -13.00 | -38.65 |
| 7630.40 | H | --- | | | | | |
| 9538.00 | H | --- | | | | | |
| 11445.60 | H | --- | | | | | |
| 13353.20 | H | --- | | | | | |
| 15260.80 | H | --- | | | | | |
| 17168.40 | H | --- | | | | | |
| 19076.00 | H | --- | | | | | |

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

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

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Operation Band :HSUPA B2 Test Date :2012-07-06
ARFCN :CH 9538 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :1970.6 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E1 Plan Measurement Antenna Pol. :HORIZONTAL

| Freq. MHz | Note F/H/E/S | EIRP dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit dBm | Safe Margin dB |
|--------------|-----------------|-------------|---------------------------|------------------------|---------------------|--------------|----------------------|
| 61.04 | S | -88.36 | -79.90 | -5.87 | -2.59 | -13.00 | -75.36 |
| 135.73 | S | -86.59 | -84.87 | 1.07 | -2.79 | -13.00 | -73.59 |
| 286.08 | S | -85.31 | -88.73 | 6.65 | -3.22 | -13.00 | -72.31 |
| 385.99 | S | -82.12 | -85.39 | 6.84 | -3.56 | -13.00 | -69.12 |
| 552.83 | S | -80.29 | -83.14 | 6.70 | -3.85 | -13.00 | -67.29 |
| 700.27 | S | -79.21 | -81.45 | 6.30 | -4.07 | -13.00 | -66.21 |
| 3815.20 | H | -47.51 | -47.34 | 7.03 | -7.20 | -13.00 | -34.51 |
| 5722.80 | H | -51.42 | -51.29 | 8.32 | -8.44 | -13.00 | -38.42 |
| 7630.40 | H | --- | | | | | |
| 9538.00 | H | --- | | | | | |
| 11445.60 | H | --- | | | | | |
| 13353.20 | H | --- | | | | | |
| 15260.80 | H | --- | | | | | |
| 17168.40 | H | --- | | | | | |
| 19076.00 | H | --- | | | | | |

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

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

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

"---" : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSUPA V Mode

Operation Band :HSUPA B5 Test Date :2012-07-06
ARFCN :CH 4132 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :826.4 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E2 PLAN Measurement Antenna Pol. :VERTICAL

| Freq. MHz | Note F/H/E/S | ERP dBm | SG Output Level dBm | Antenna Gain dBd | Cable Loss dB | Limit dBm | Safe Margin dB |
|--------------|-----------------|------------|---------------------------|------------------------|---------------------|--------------|----------------------|
| 99.84 | S | -81.90 | -78.19 | -0.99 | -2.72 | -13.00 | -68.90 |
| 110.51 | S | -81.60 | -77.80 | -1.09 | -2.72 | -13.00 | -68.60 |
| 274.44 | S | -87.75 | -89.03 | 4.50 | -3.22 | -13.00 | -74.75 |
| 362.71 | S | -84.34 | -85.61 | 4.70 | -3.43 | -13.00 | -71.34 |
| 553.80 | S | -82.23 | -82.91 | 4.54 | -3.85 | -13.00 | -69.23 |
| 698.33 | S | -81.24 | -81.32 | 4.15 | -4.07 | -13.00 | -68.24 |
| 1652.80 | H | -62.12 | -59.16 | 2.39 | -5.36 | -13.00 | -49.12 |
| 2479.20 | H | -60.80 | -57.79 | 3.15 | -6.15 | -13.00 | -47.80 |
| 3305.60 | H | --- | | | | | |
| 4132.00 | H | --- | | | | | |
| 4958.40 | H | --- | | | | | |
| 5784.80 | H | --- | | | | | |
| 6611.20 | H | --- | | | | | |
| 7437.60 | H | --- | | | | | |
| 8264.00 | H | --- | | | | | |

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

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

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Operation Band :HSUPA B5 Test Date :2012-07-06
ARFCN :CH 4132 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :826.4 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E2 PLAN Measurement Antenna Pol. :HORIZONTAL

| Freq. MHz | Note F/H/E/S | ERP dBm | SG Output Level dBm | Antenna Gain dBd | Cable Loss dB | Limit dBm | Safe Margin dB |
|--------------|-----------------|------------|---------------------------|------------------------|---------------------|--------------|----------------------|
| 63.95 | S | -91.08 | -81.23 | -7.26 | -2.59 | -13.00 | -78.08 |
| 153.19 | S | -87.76 | -83.90 | -0.93 | -2.93 | -13.00 | -74.76 |
| 286.08 | S | -87.51 | -88.79 | 4.50 | -3.22 | -13.00 | -74.51 |
| 385.02 | S | -84.54 | -85.66 | 4.68 | -3.56 | -13.00 | -71.54 |
| 600.36 | S | -81.66 | -81.77 | 4.03 | -3.92 | -13.00 | -68.66 |
| 681.84 | S | -81.05 | -81.09 | 4.14 | -4.10 | -13.00 | -68.05 |
| 1652.80 | H | -56.40 | -53.72 | 2.68 | -5.36 | -13.00 | -43.40 |
| 2479.20 | H | -59.43 | -56.80 | 3.52 | -6.15 | -13.00 | -46.43 |
| 3305.60 | H | --- | | | | | |
| 4132.00 | H | --- | | | | | |
| 4958.40 | H | --- | | | | | |
| 5784.80 | H | --- | | | | | |
| 6611.20 | H | --- | | | | | |
| 7437.60 | H | --- | | | | | |
| 8264.00 | H | --- | | | | | |

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

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

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Operation Band :HSUPA B5 Test Date :2012-07-06
ARFCN :CH 4183 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :836.6 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E2 PLAN Measurement Antenna Pol. :VERTICAL

| Freq. MHz | Note F/H/E/S | ERP dBm | SG Output Level dBm | Antenna Gain dBd | Cable Loss dB | Limit dBm | Safe Margin dB |
|--------------|-----------------|------------|---------------------------|------------------------|---------------------|--------------|----------------------|
| 99.84 | S | -82.69 | -78.98 | -0.99 | -2.72 | -13.00 | -69.69 |
| 110.51 | S | -81.12 | -77.31 | -1.09 | -2.72 | -13.00 | -68.12 |
| 280.26 | S | -87.86 | -89.06 | 4.42 | -3.22 | -13.00 | -74.86 |
| 379.20 | S | -84.97 | -86.18 | 4.64 | -3.43 | -13.00 | -71.97 |
| 584.84 | S | -82.37 | -82.67 | 4.19 | -3.90 | -13.00 | -69.37 |
| 676.02 | S | -81.33 | -81.37 | 4.14 | -4.10 | -13.00 | -68.33 |
| 1673.20 | H | -64.07 | -61.06 | 2.33 | -5.34 | -13.00 | -51.07 |
| 2509.80 | H | -60.92 | -57.98 | 3.19 | -6.13 | -13.00 | -47.92 |
| 3346.40 | H | --- | | | | | |
| 4183.00 | H | --- | | | | | |
| 5019.60 | H | --- | | | | | |
| 5856.20 | H | --- | | | | | |
| 6692.80 | H | --- | | | | | |
| 7529.40 | H | --- | | | | | |
| 8366.00 | H | --- | | | | | |

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

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

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Operation Band :HSUPA B5 Test Date :2012-07-06
ARFCN :CH 4183 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :836.6 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E2 PLAN Measurement Antenna Pol. :HORIZONTAL

| Freq. MHz | Note F/H/E/S | ERP dBm | SG Output Level dBm | Antenna Gain dBd | Cable Loss dB | Limit dBm | Safe Margin dB |
|--------------|-----------------|------------|---------------------------|------------------------|---------------------|--------------|----------------------|
| 30.97 | S | -90.90 | -74.17 | -14.26 | -2.47 | -13.00 | -77.90 |
| 144.46 | S | -88.66 | -84.63 | -1.24 | -2.79 | -13.00 | -75.66 |
| 286.08 | S | -86.45 | -87.73 | 4.50 | -3.22 | -13.00 | -73.45 |
| 372.41 | S | -85.20 | -86.40 | 4.63 | -3.43 | -13.00 | -72.20 |
| 595.51 | S | -81.98 | -82.17 | 4.08 | -3.90 | -13.00 | -68.98 |
| 697.36 | S | -80.75 | -80.84 | 4.15 | -4.07 | -13.00 | -67.75 |
| 1673.20 | H | -61.76 | -59.08 | 2.66 | -5.34 | -13.00 | -48.76 |
| 2509.80 | H | -61.10 | -58.52 | 3.55 | -6.13 | -13.00 | -48.10 |
| 3346.40 | H | --- | | | | | |
| 4183.00 | H | --- | | | | | |
| 5019.60 | H | --- | | | | | |
| 5856.20 | H | --- | | | | | |
| 6692.80 | H | --- | | | | | |
| 7529.40 | H | --- | | | | | |
| 8366.00 | H | --- | | | | | |

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

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

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Operation Band :HSUPA B5 Test Date :2012-07-06
ARFCN :CH 4233 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :846.6 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E2 PLAN Measurement Antenna Pol. :VERTICAL

| Freq. MHz | Note F/H/E/S | ERP dBm | SG Output Level dBm | Antenna Gain dBd | Cable Loss dB | Limit dBm | Safe Margin dB |
|--------------|-----------------|------------|---------------------------|------------------------|---------------------|--------------|----------------------|
| 99.84 | S | -82.15 | -78.44 | -0.99 | -2.72 | -13.00 | -69.15 |
| 110.51 | S | -81.58 | -77.78 | -1.09 | -2.72 | -13.00 | -68.58 |
| 270.56 | S | -88.23 | -89.51 | 4.55 | -3.27 | -13.00 | -75.23 |
| 382.11 | S | -84.31 | -85.41 | 4.66 | -3.56 | -13.00 | -71.31 |
| 586.78 | S | -82.71 | -82.98 | 4.17 | -3.90 | -13.00 | -69.71 |
| 661.47 | S | -81.32 | -81.31 | 4.13 | -4.14 | -13.00 | -68.32 |
| 1693.20 | H | -62.26 | -59.15 | 2.29 | -5.40 | -13.00 | -49.26 |
| 2539.80 | H | -60.03 | -57.08 | 3.28 | -6.24 | -13.00 | -47.03 |
| 3386.40 | H | --- | | | | | |
| 4233.00 | H | --- | | | | | |
| 5079.60 | H | --- | | | | | |
| 5926.20 | H | --- | | | | | |
| 6772.80 | H | --- | | | | | |
| 7619.40 | H | --- | | | | | |
| 8466.00 | H | --- | | | | | |

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

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

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Operation Band :HSUPA B5 Test Date :2012-07-06
ARFCN :CH 4233 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :846.6 MHz Engineer :Jimmy
Operation Mode :TX
EUT Pol. :E2 PLAN Measurement Antenna Pol. :HORIZONTAL

| Freq. MHz | Note F/H/E/S | ERP dBm | SG Output Level dBm | Antenna Gain dBd | Cable Loss dB | Limit dBm | Safe Margin dB |
|--------------|-----------------|------------|---------------------------|------------------------|---------------------|--------------|----------------------|
| 58.13 | S | -91.33 | -79.98 | -8.75 | -2.59 | -13.00 | -78.33 |
| 151.25 | S | -88.81 | -84.83 | -1.04 | -2.93 | -13.00 | -75.81 |
| 286.08 | S | -87.82 | -89.10 | 4.50 | -3.22 | -13.00 | -74.82 |
| 363.68 | S | -84.48 | -85.75 | 4.69 | -3.43 | -13.00 | -71.48 |
| 594.54 | S | -82.83 | -83.02 | 4.09 | -3.90 | -13.00 | -69.83 |
| 698.33 | S | -81.00 | -81.08 | 4.15 | -4.07 | -13.00 | -68.00 |
| 1693.20 | H | -58.71 | -55.95 | 2.65 | -5.40 | -13.00 | -45.71 |
| 2539.80 | H | -60.99 | -58.39 | 3.64 | -6.24 | -13.00 | -47.99 |
| 3386.40 | H | --- | | | | | |
| 4233.00 | H | --- | | | | | |
| 5079.60 | H | --- | | | | | |
| 5926.20 | H | --- | | | | | |
| 6772.80 | H | --- | | | | | |
| 7619.40 | H | --- | | | | | |
| 8466.00 | H | --- | | | | | |

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

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

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11. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

11.1. Standard Applicable:

According to FCC §2.1055(a) (1)

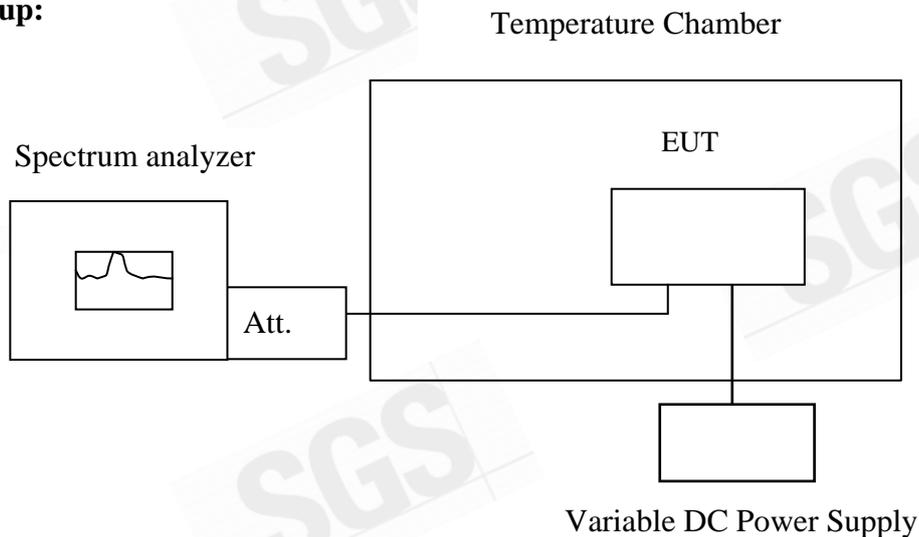
Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

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

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

11.2. Test Set-up:



Note : Measurement setup for testing on Antenna connector

11.3. Measurement Procedure:

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

11.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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11.5. Measurement Result:

| Reference Frequency: GPRS 850 Mid Channel 836.6 MHz | | | | |
|---|-----------------|------------|------------|------------|
| Limit: +/- 2.5 ppm = 2091 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature () | (MHz) | | |
| 3.7 | -30 | 836.599997 | 2.00 | 2091 |
| 3.7 | -20 | 836.599993 | 6.00 | 2091 |
| 3.7 | -10 | 836.599998 | 1.00 | 2091 |
| 3.7 | 0 | 836.599992 | 7.00 | 2091 |
| 3.7 | 10 | 836.599997 | 2.00 | 2091 |
| 3.7 | 20 | 836.599999 | 0.00 | 2091 |
| 3.7 | 30 | 836.599998 | 1.00 | 2091 |
| 3.7 | 40 | 836.599995 | 4.00 | 2091 |
| 3.7 | 50 | 836.599991 | 8.00 | 2091 |

| Reference Frequency: GPRS 1900Mid Channel 1880 MHz | | | | |
|--|-----------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = 4700 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature () | (MHz) | | |
| 3.7 | -30 | 1879.999995 | -2.00 | 4700 |
| 3.7 | -20 | 1879.999998 | -5.00 | 4700 |
| 3.7 | -10 | 1879.999994 | -1.00 | 4700 |
| 3.7 | 0 | 1879.999995 | -2.00 | 4700 |
| 3.7 | 10 | 1879.999992 | 1.00 | 4700 |
| 3.7 | 20 | 1879.999993 | 0.00 | 4700 |
| 3.7 | 30 | 1879.999996 | -3.00 | 4700 |
| 3.7 | 40 | 1879.999995 | -2.00 | 4700 |
| 3.7 | 50 | 1879.999997 | -4.00 | 4700 |

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| Reference Frequency: WCDMA II Mid Channel 1880 MHz | | | | |
|--|-----------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = 4700 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature () | (MHz) | | |
| 3.7 | -30 | 1879.999998 | -2.00 | 4700 |
| 3.7 | -20 | 1879.999994 | 2.00 | 4700 |
| 3.7 | -10 | 1879.999993 | 3.00 | 4700 |
| 3.7 | 0 | 1879.999995 | 1.00 | 4700 |
| 3.7 | 10 | 1879.999997 | -1.00 | 4700 |
| 3.7 | 20 | 1879.999996 | 0.00 | 4700 |
| 3.7 | 30 | 1879.999992 | 4.00 | 4700 |
| 3.7 | 40 | 1879.999991 | 5.00 | 4700 |
| 3.7 | 50 | 1879.999990 | 6.00 | 4700 |

| Reference Frequency: WCDMA V Mid Channel 836.6 MHz | | | | |
|--|-----------------|------------|------------|------------|
| Limit: +/- 2.5 ppm = 2091 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature () | (MHz) | | |
| 3.7 | -30 | 836.599990 | 7.00 | 2091 |
| 3.7 | -20 | 836.599989 | 8.00 | 2091 |
| 3.7 | -10 | 836.599994 | 3.00 | 2091 |
| 3.7 | 0 | 836.599997 | 0.00 | 2091 |
| 3.7 | 10 | 836.599993 | 4.00 | 2091 |
| 3.7 | 20 | 836.599997 | 0.00 | 2091 |
| 3.7 | 30 | 836.599992 | 5.00 | 2091 |
| 3.7 | 40 | 836.599996 | 1.00 | 2091 |
| 3.7 | 50 | 836.599998 | -1.00 | 2091 |

Note: The battery is rated 3.7V dc.

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12. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

12.1. Standard Applicable:

According to FCC §2.1055(a) (1)

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

+/-2.5ppm for 1900MHz band

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

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

12.2. Test Set-up:

Refer to section 11.2 in this report

12.3. Measurement Procedure:

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

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

12.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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12.5. Measurement Result:

| Reference Frequency: GPRS 850 Mid Channel 836.6 MHz | | | | |
|---|-----------------|------------|------------|------------|
| Limit: +/- 2.5 ppm = 2091 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature () | (MHz) | | |
| 4.2 | 25.00 | 836.599991 | -4.00 | 2091.00 |
| 3.7 | 25.00 | 836.599987 | 0.00 | 2091.00 |
| 3.3 | 25.00 | 836.599992 | -5.00 | 2091.00 |
| 2.8 (End Point) | 25.00 | 836.599982 | 5.00 | 2091.00 |

| Reference Frequency: GPRS 1900 Mid Channel 1880 MHz | | | | |
|---|-----------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = 4700 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature () | (MHz) | | |
| 4.2 | 25 | 1879.999996 | -3.00 | 4700 |
| 3.7 | 25 | 1879.999993 | 0.00 | 4700 |
| 3.3 | 25 | 1879.999989 | 4.00 | 4700 |
| 2.8 (End Point) | 25 | 1879.999992 | 1.00 | 4700 |

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| Reference Frequency: WCDMA II Mid Channel 1880 MHz | | | | |
|--|-----------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = 4700 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature () | (MHz) | | |
| 4.2 | 25 | 1879.999989 | 2.00 | 4700 |
| 3.7 | 25 | 1879.999991 | 0.00 | 4700 |
| 3.3 | 25 | 1879.999984 | 7.00 | 4700 |
| 2.8 (End Point) | 25 | 1879.999986 | 5.00 | 4700 |

| Reference Frequency: WCDMA V Mid Channel 836.6 MHz | | | | |
|--|-----------------|------------|------------|------------|
| Limit: +/- 2.5 ppm = 2091 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature () | (MHz) | | |
| 4.2 | 25.00 | 836.599994 | 3.00 | 2091.00 |
| 3.7 | 25.00 | 836.599997 | 0.00 | 2091.00 |
| 3.3 | 25.00 | 836.599993 | 4.00 | 2091.00 |
| 2.8 (End Point) | 25.00 | 836.599998 | -1.00 | 2091.00 |

Note: The battery is rated 3.7V dc.

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APPENDIX 1

MEASUREMENT PLOT OF RADIATED SPURIOUS EMISSION

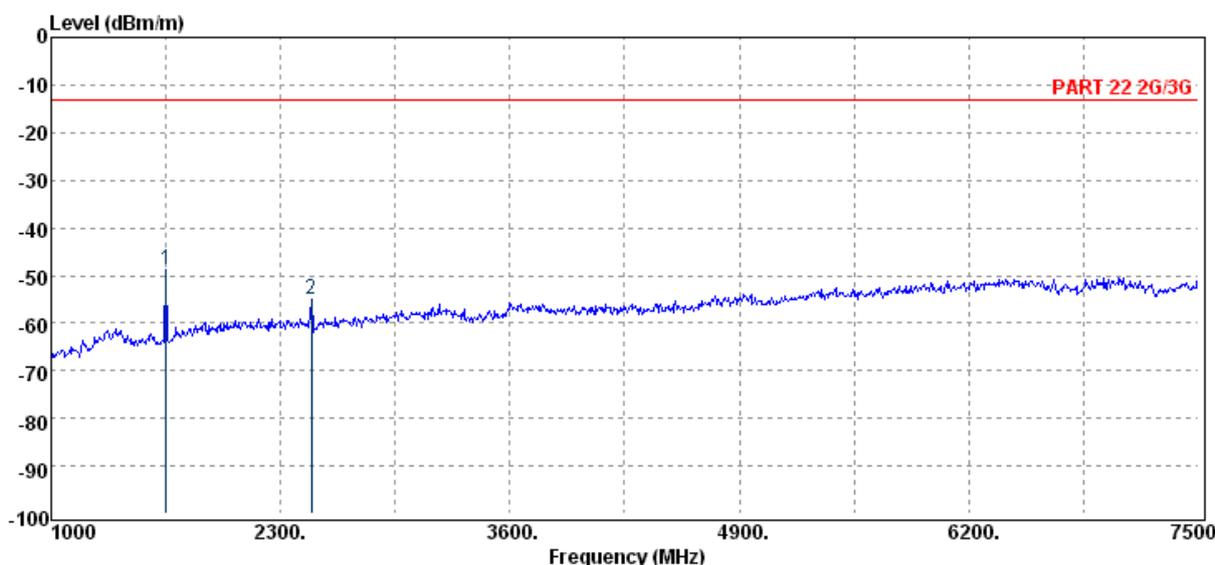
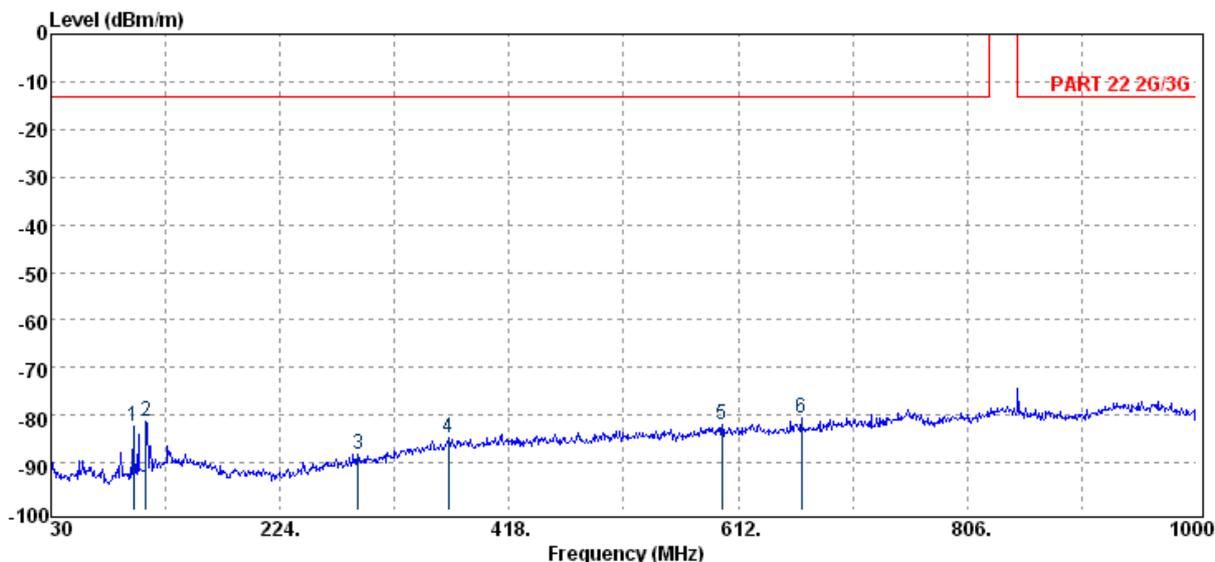
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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

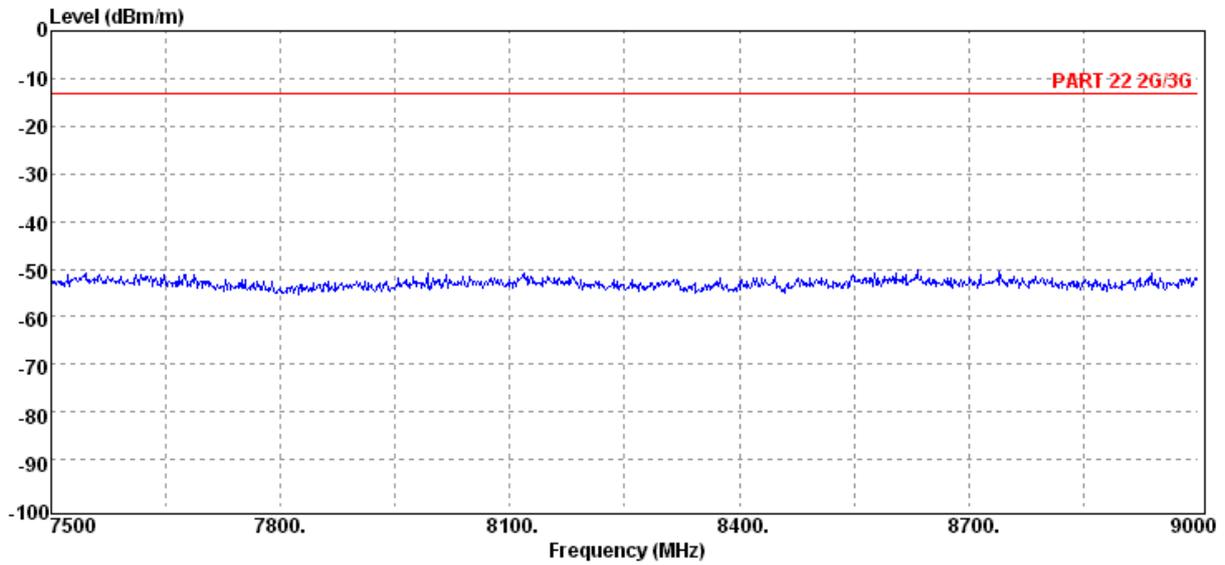
| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :GPRS 850 | Test Date | :2012-07-06 |
| ARFCN | :CH 128 | Temp./Humi. | :27 deg_C / 66 RH |
| Fundamental Frequency | :824.2 MHz | Engineer | :Jimmy |
| Operation Mode | :TX | | |
| EUT Pol. | :H PLAN | Measurement Antenna Pol. | :VERTICAL |



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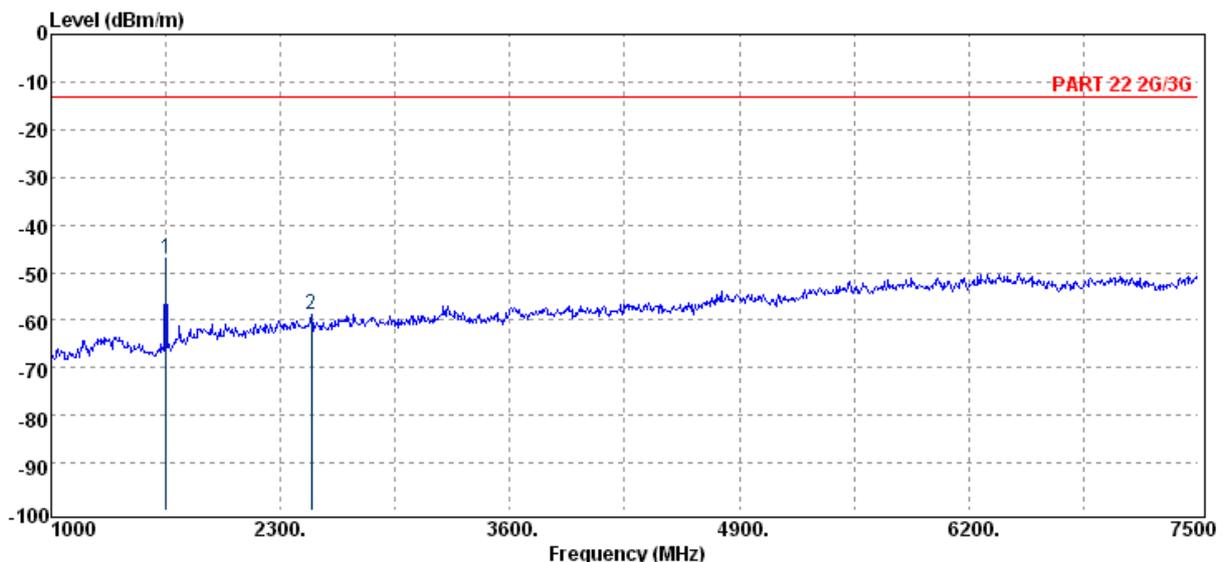
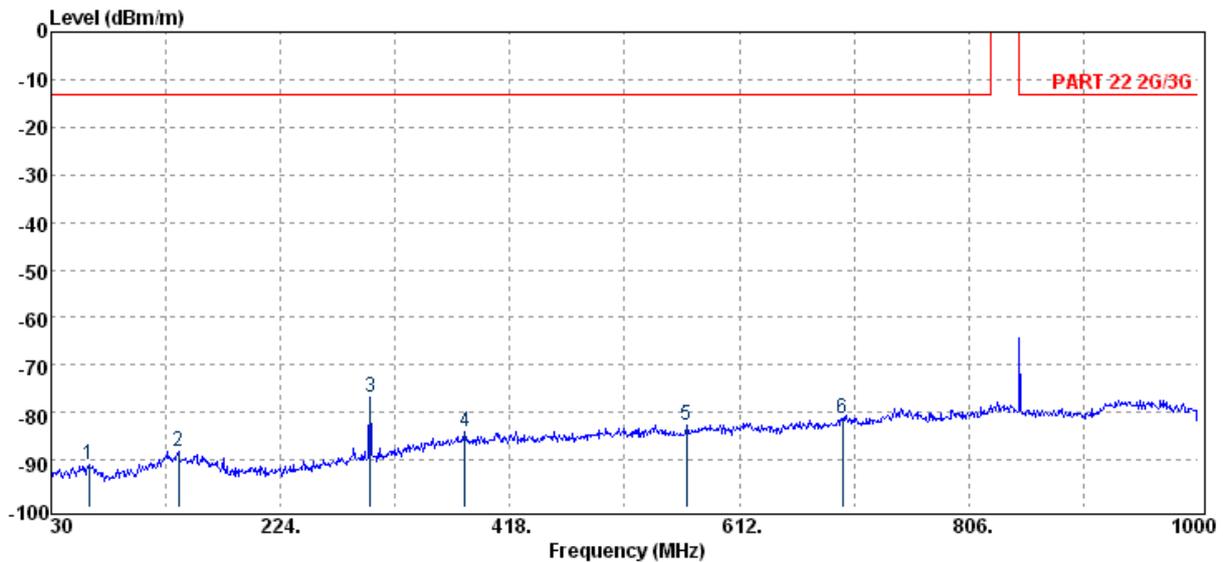


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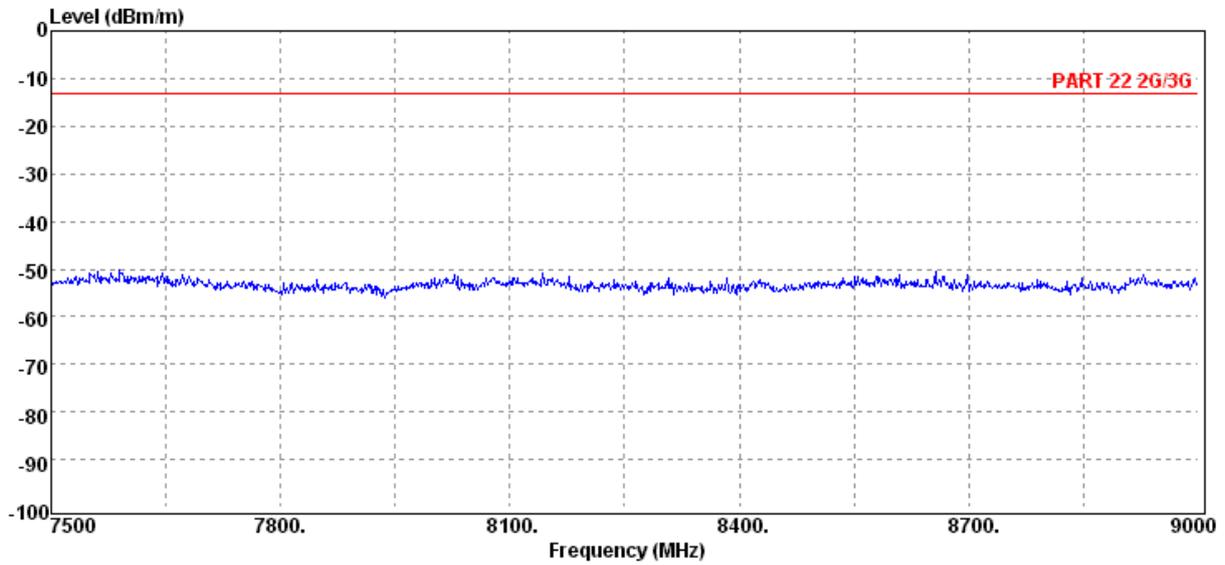
| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :GPRS 850 | Test Date | :2012-07-06 |
| ARFCN | :CH 128 | Temp./Humi. | :27 deg_C / 66 RH |
| Fundamental Frequency | :824.2 MHz | Engineer | :Jimmy |
| Operation Mode | :TX | | |
| EUT Pol. | :H PLAN | Measurement Antenna Pol. | :HORIZONTAL |



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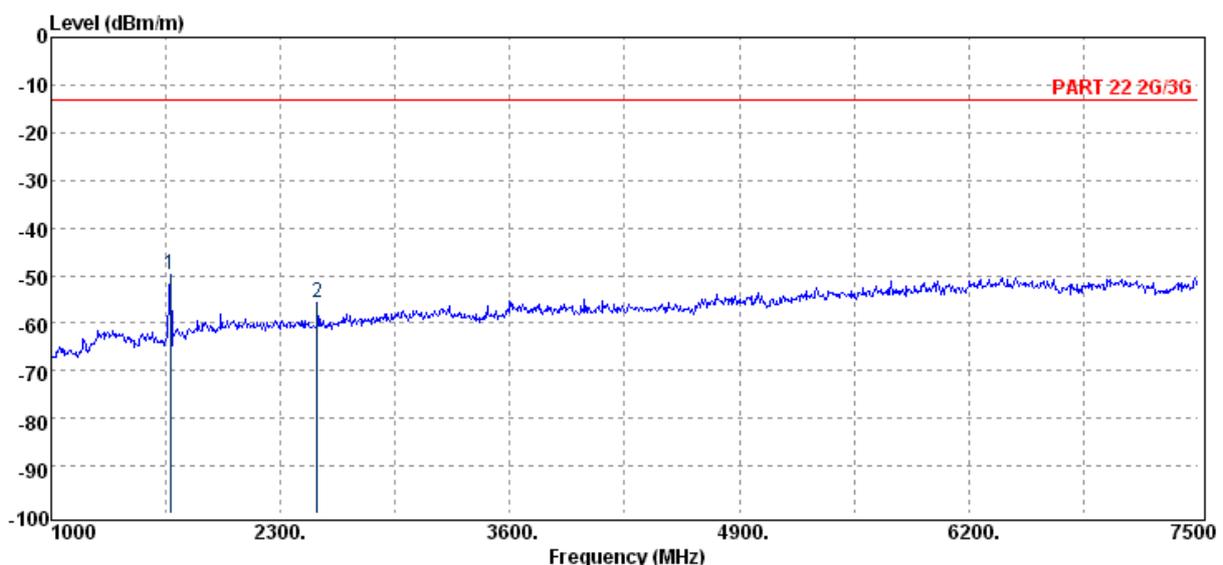
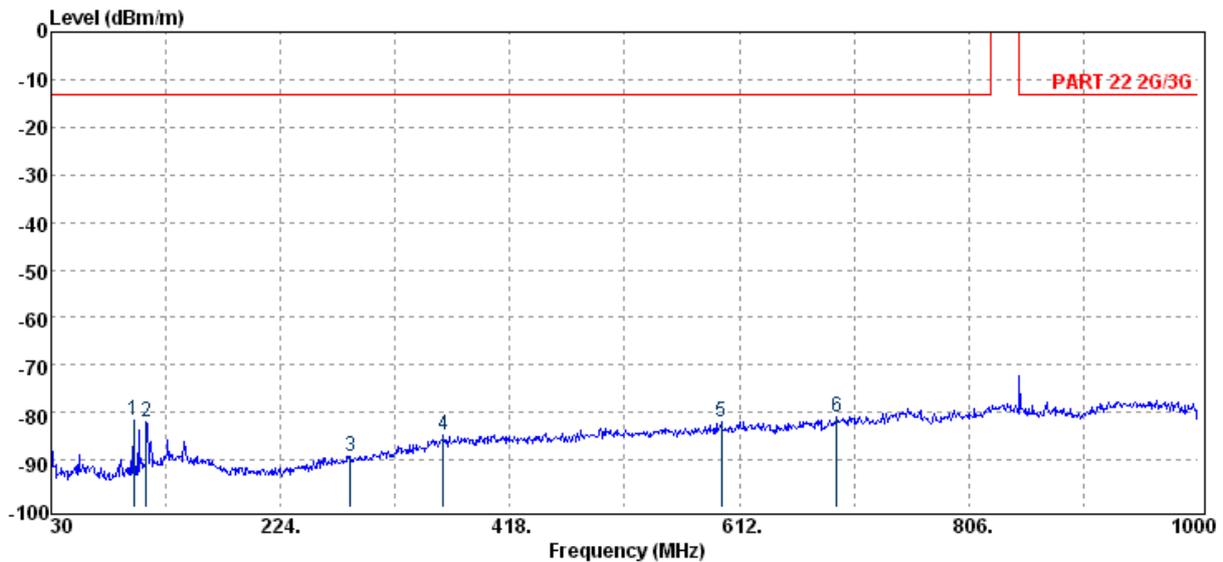


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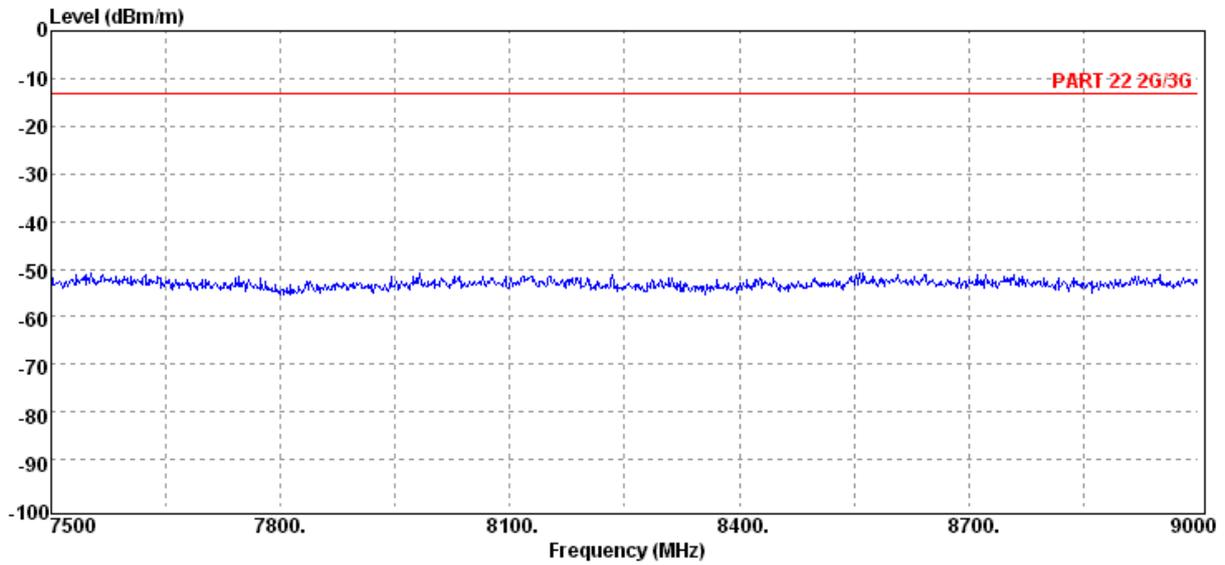
| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :GPRS 850 | Test Date | :2012-07-06 |
| ARFCN | :CH 190 | Temp./Humi. | :27 deg_C / 66 RH |
| Fundamental Frequency | :836.6 MHz | Engineer | :Jimmy |
| Operation Mode | :TX | | |
| EUT Pol. | :H PLAN | Measurement Antenna Pol. | :VERTICAL |



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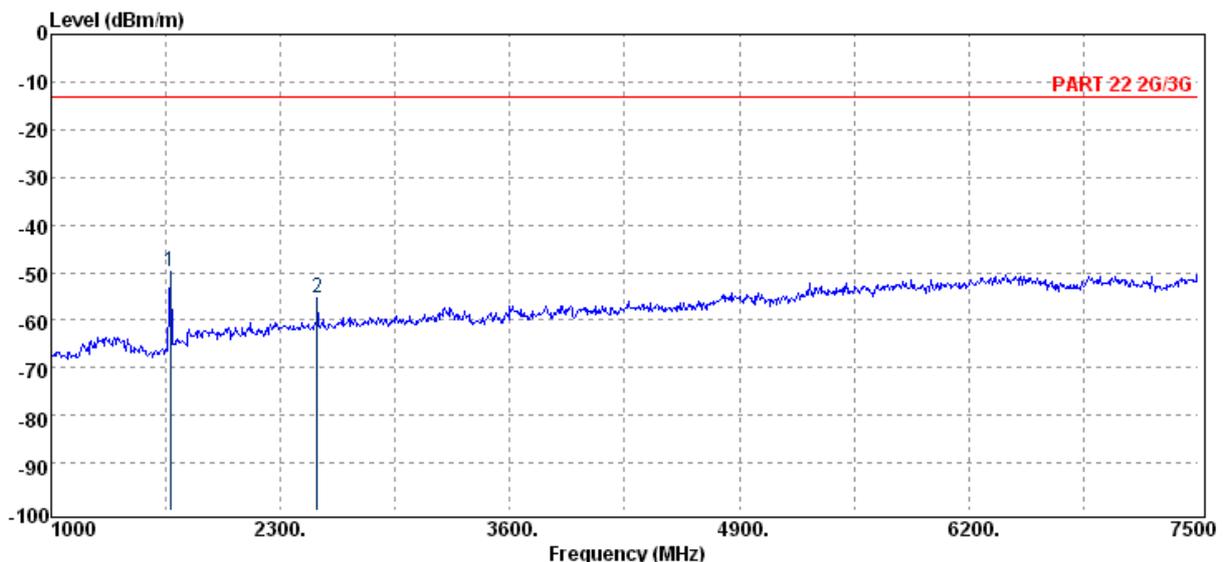
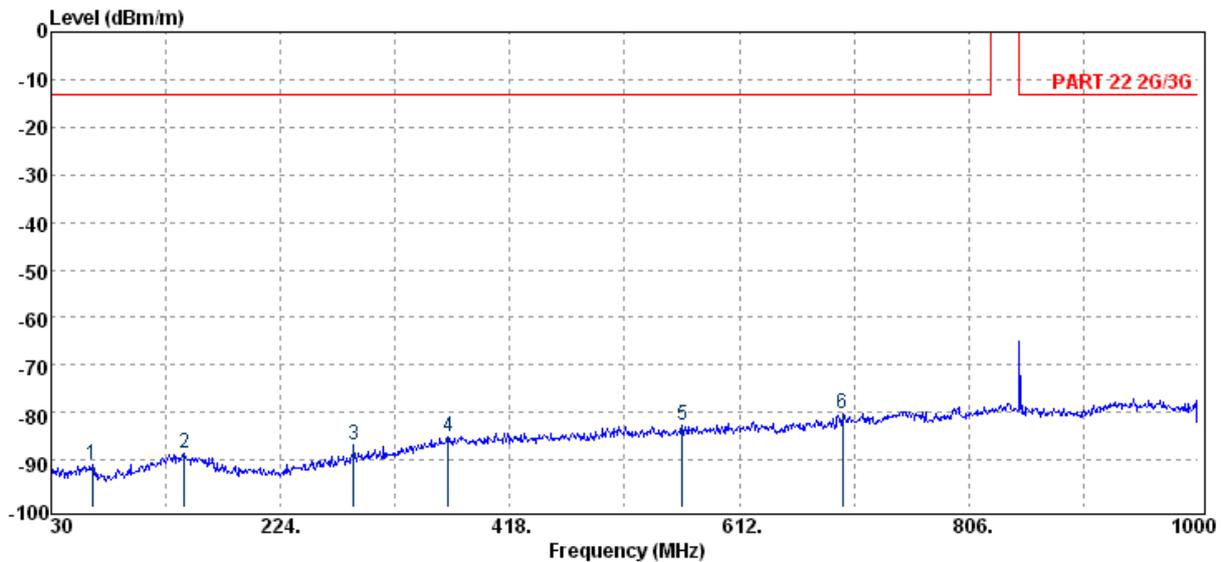


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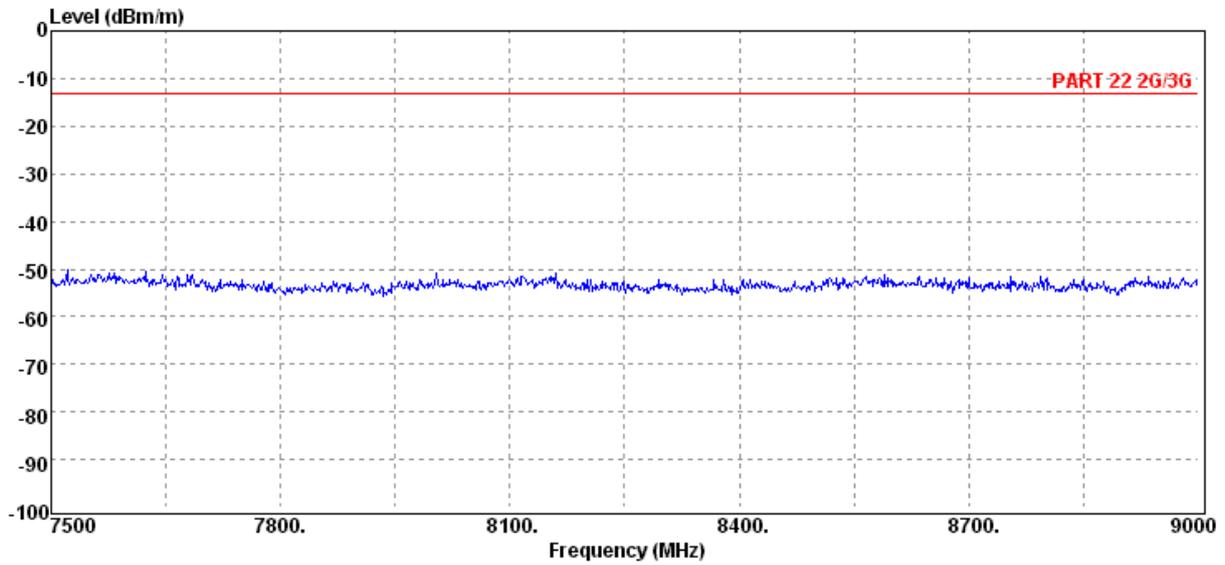
| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :GPRS 850 | Test Date | :2012-07-06 |
| ARFCN | :CH 190 | Temp./Humi. | :27 deg_C / 66 RH |
| Fundamental Frequency | :836.6 MHz | Engineer | :Jimmy |
| Operation Mode | :TX | | |
| EUT Pol. | :H PLAN | Measurement Antenna Pol. | :HORIZONTAL |



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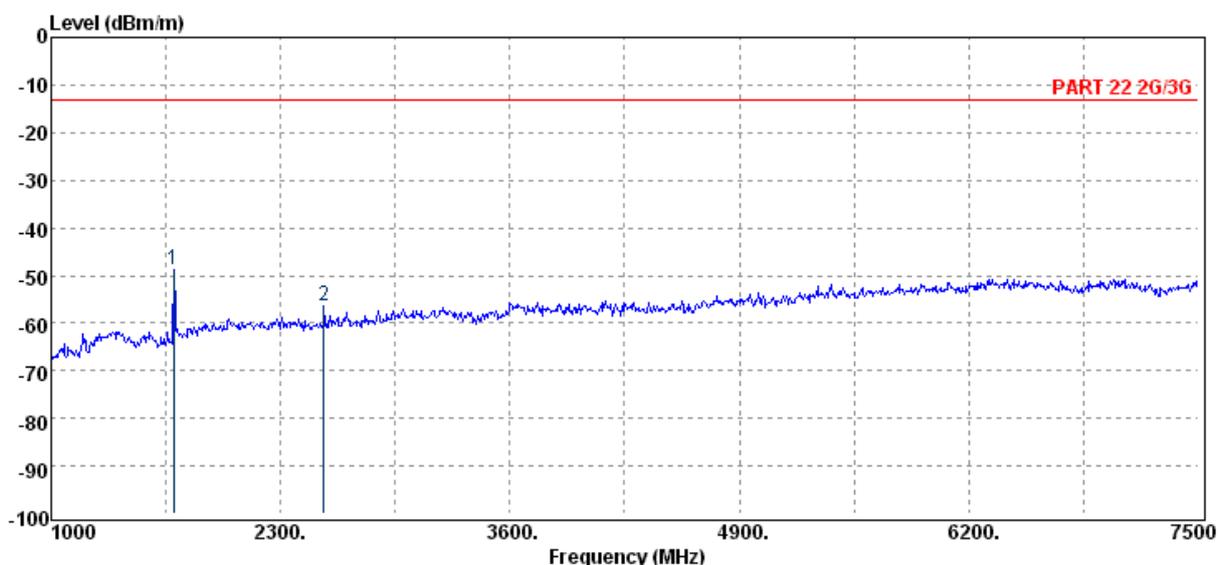
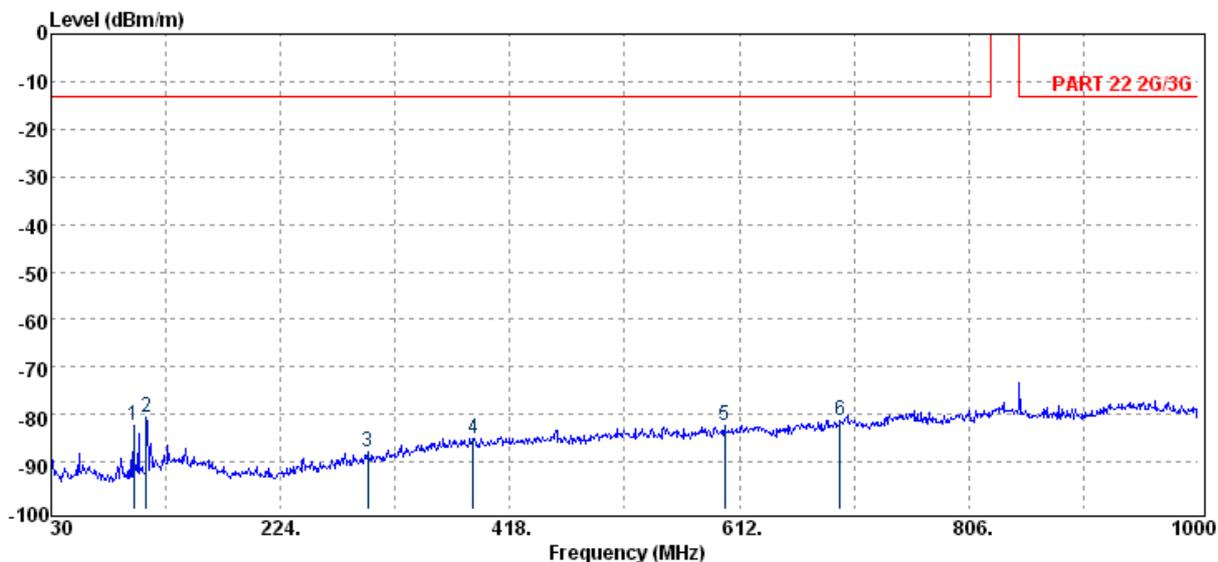


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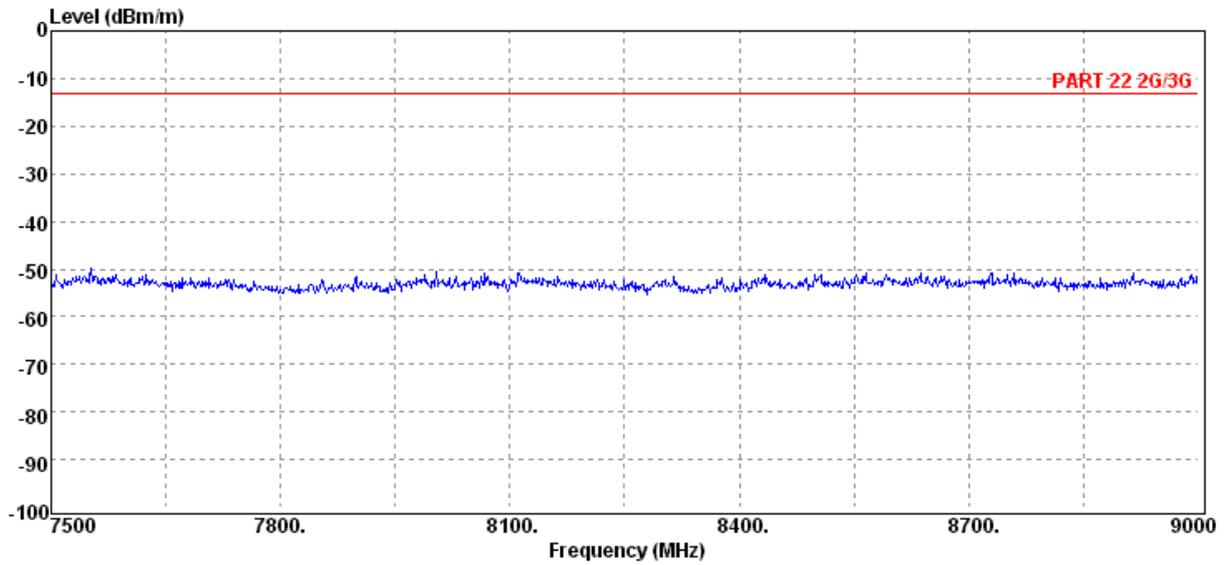
| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :GPRS 850 | Test Date | :2012-07-06 |
| ARFCN | :CH 251 | Temp./Humi. | :27 deg_C / 66 RH |
| Fundamental Frequency | :848.8 MHz | Engineer | :Jimmy |
| Operation Mode | :TX | | |
| EUT Pol. | :H PLAN | Measurement Antenna Pol. | :VERTICAL |



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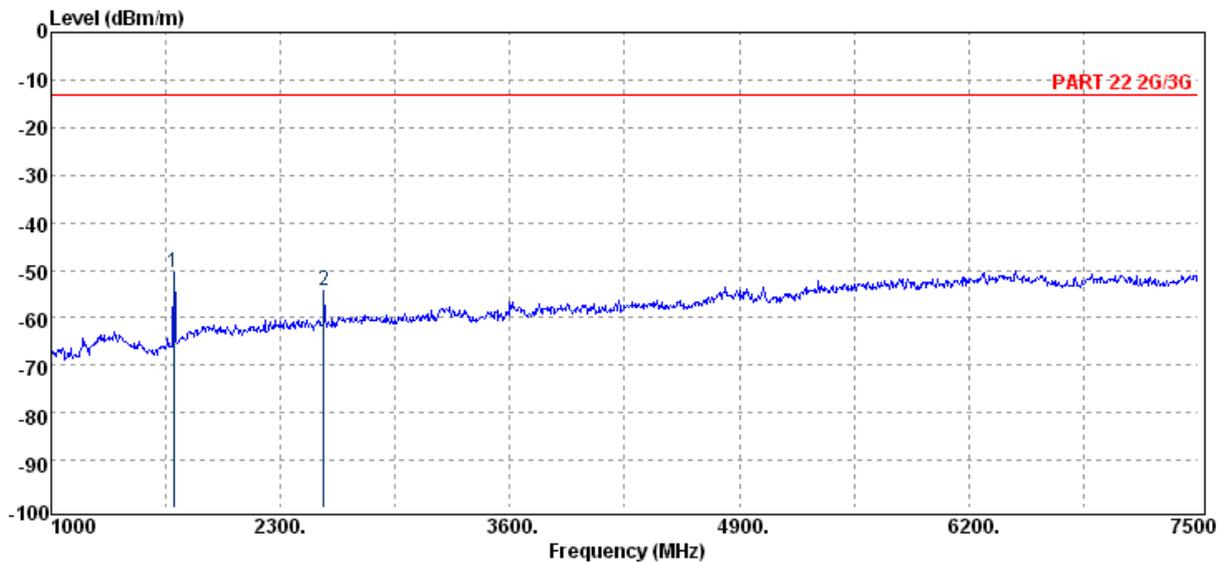
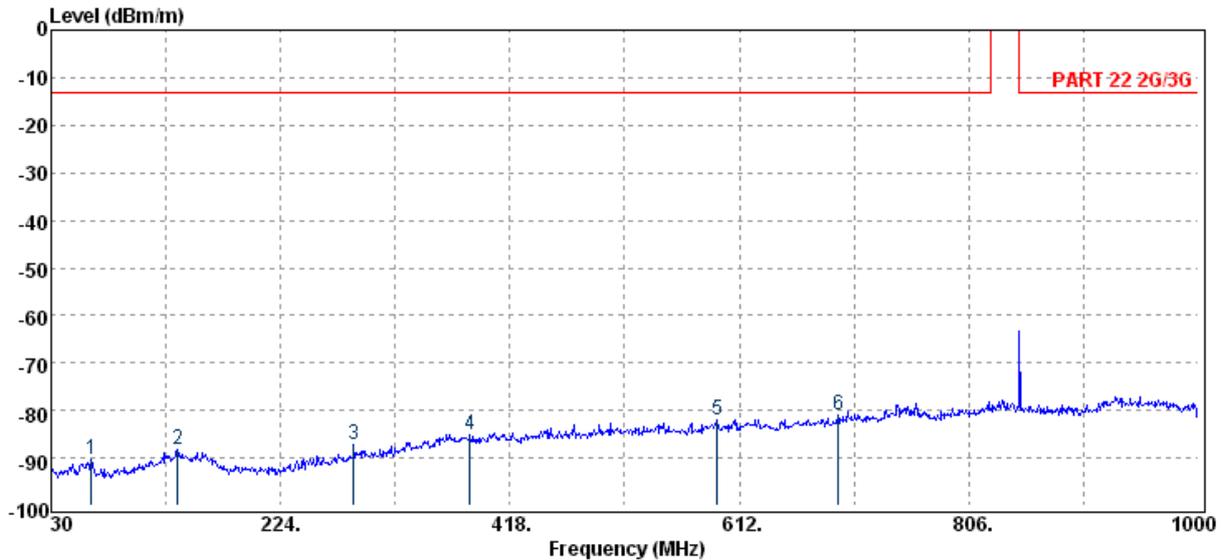


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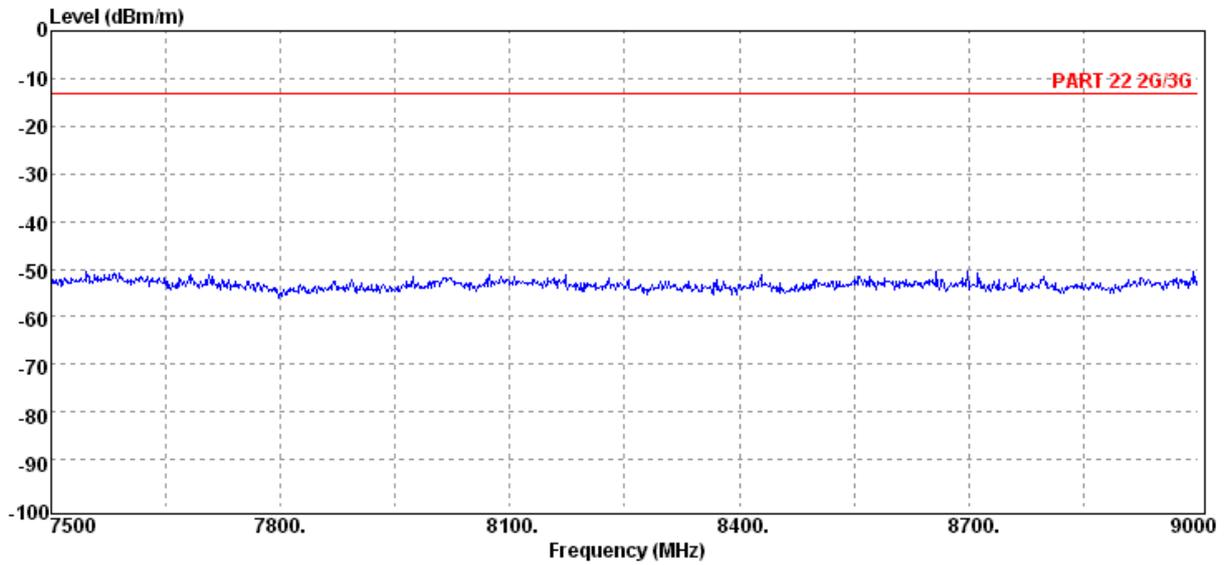
| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :GPRS 850 | Test Date | :2012-07-06 |
| ARFCN | :CH 251 | Temp./Humi. | :27 deg_C / 66 RH |
| Fundamental Frequency | :848.8 MHz | Engineer | :Jimmy |
| Operation Mode | :TX | | |
| EUT Pol. | :H PLAN | Measurement Antenna Pol. | :HORIZONTAL |



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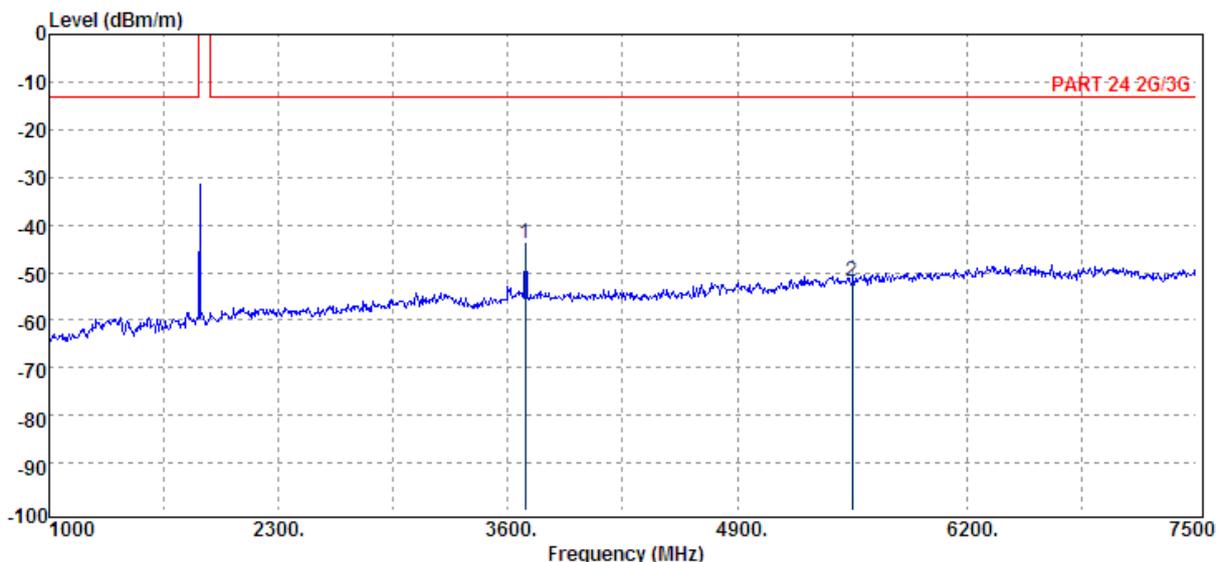
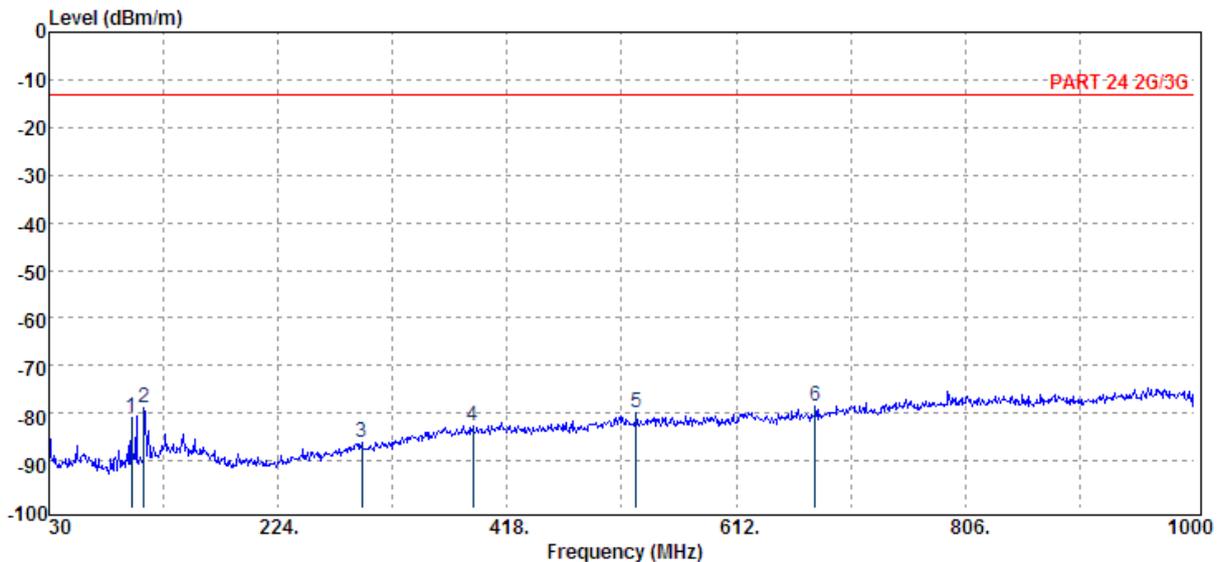
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Radiated Spurious Emission Measurement Result: GSM 1900 Mode

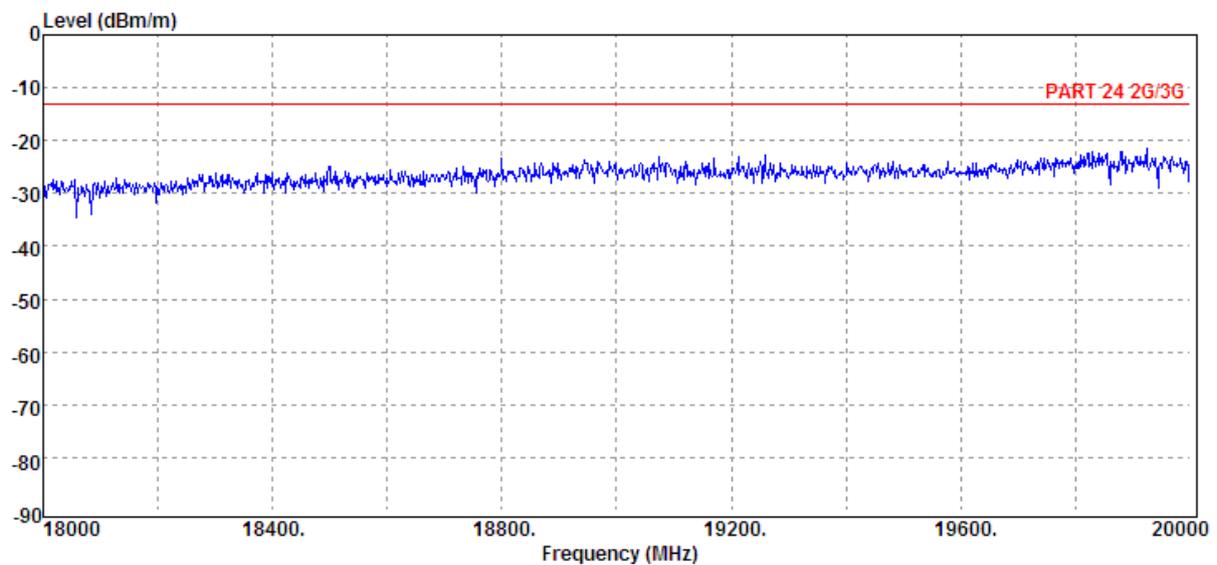
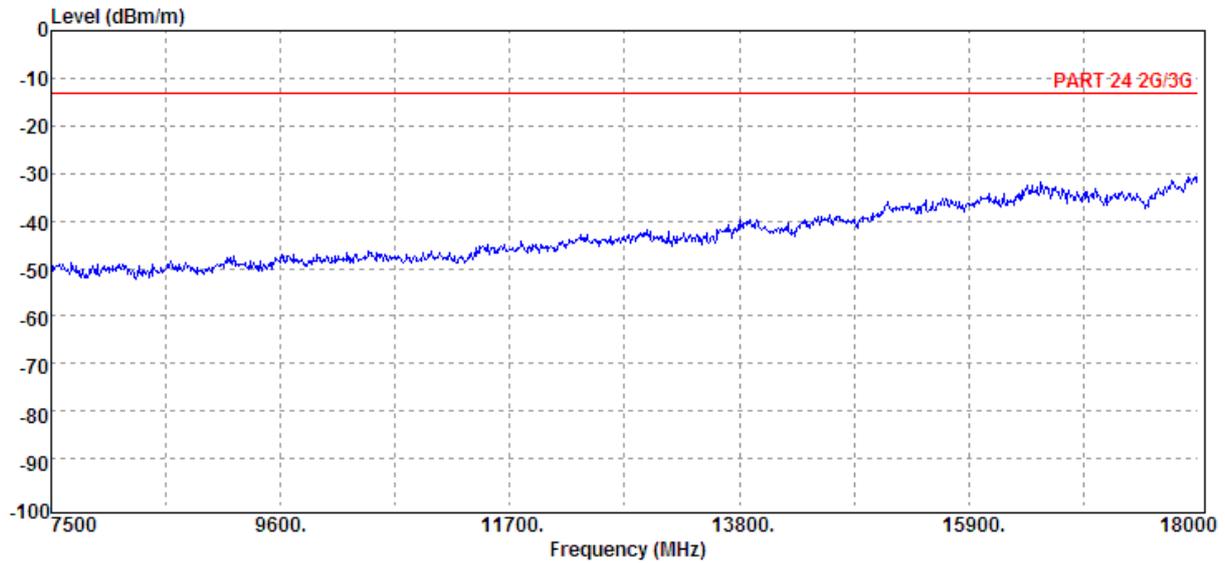
| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :GSM 1900 | Test Date | :2012-07-06 |
| ARFCN | :CH 512 | Temp./Humi. | :27 deg_C / 66 RH |
| Fundamental Frequency | :1850.2 MHz | Engineer | :Jimmy |
| Operation Mode | :TX | | |
| EUT Pol. | :E1 Plan | Measurement Antenna Pol. | :VERTICAL |



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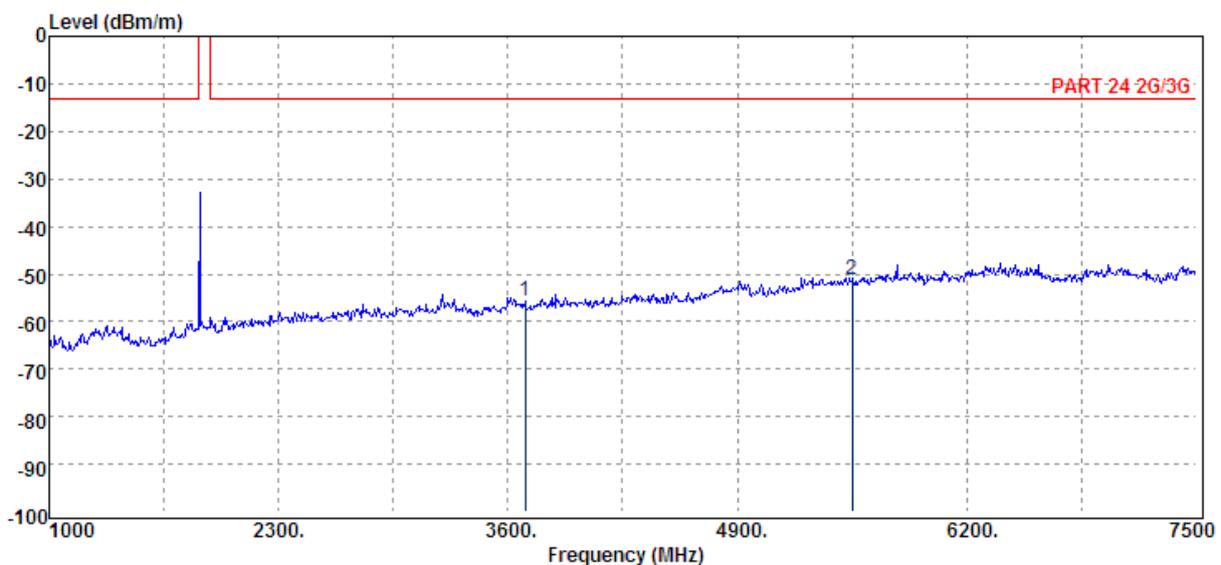
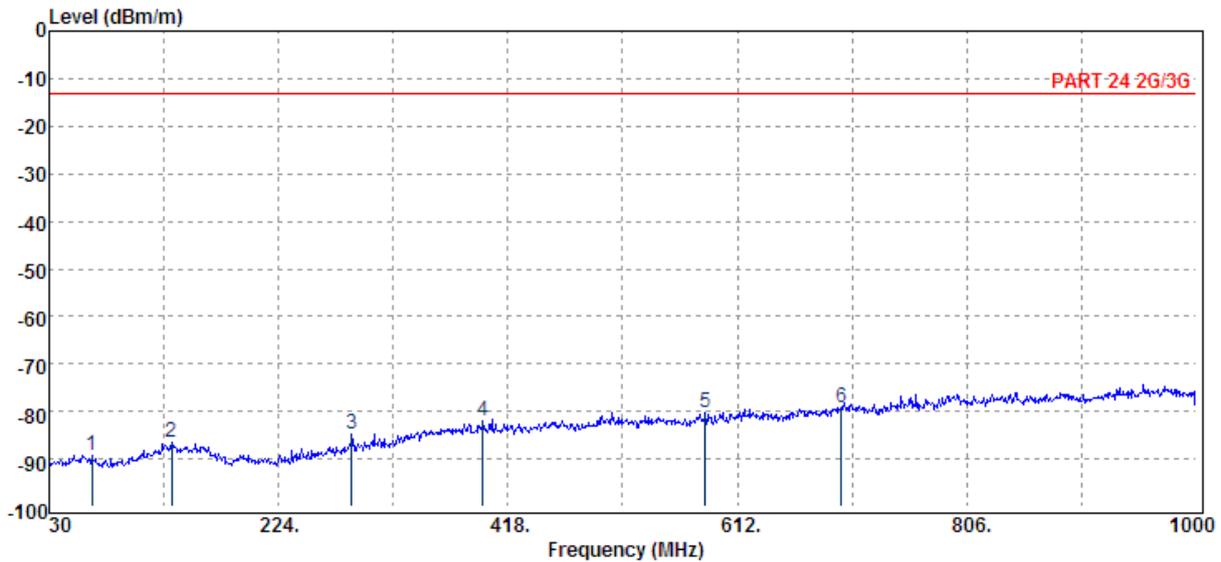


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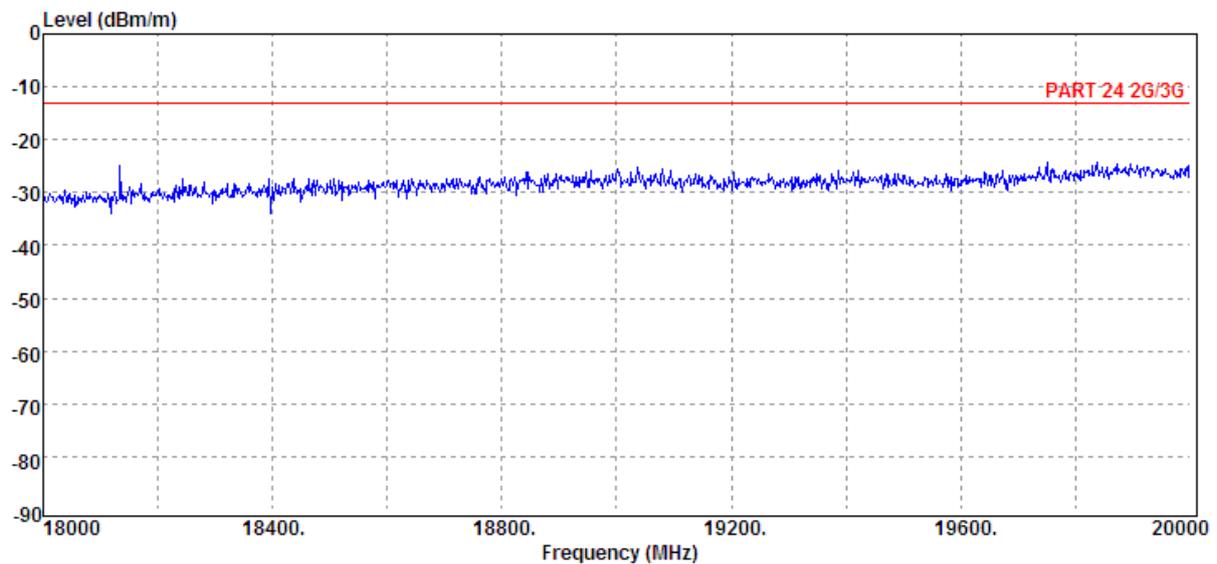
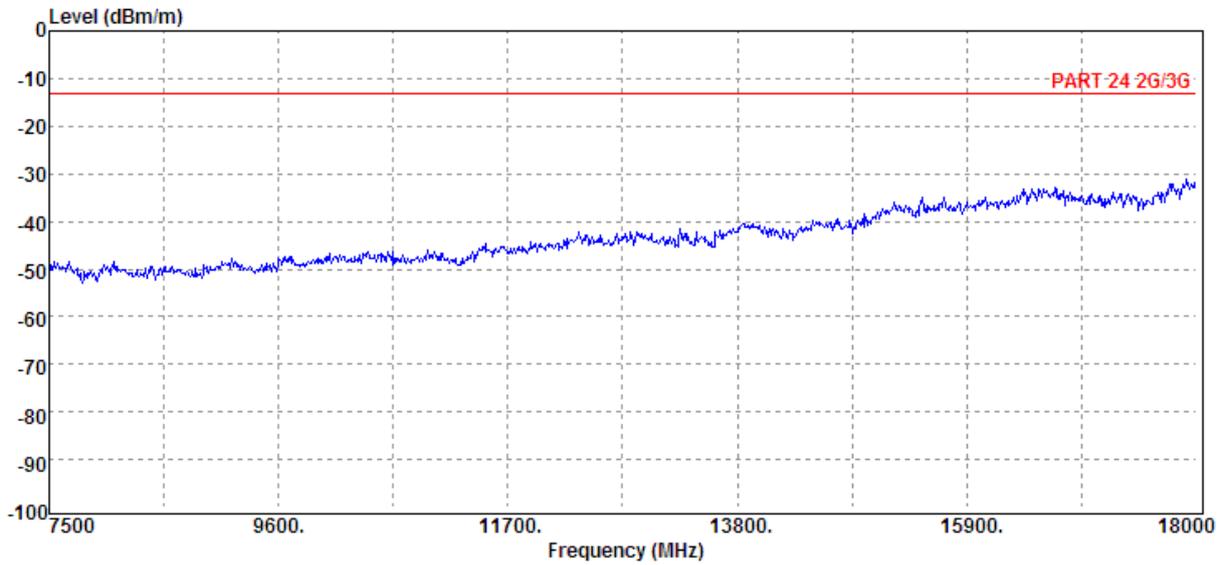
| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :GSM 1900 | Test Date | :2012-07-06 |
| ARFCN | :CH 512 | Temp./Humi. | :27 deg_C / 66 RH |
| Fundamental Frequency | :1850.2 MHz | Engineer | :Jimmy |
| Operation Mode | :TX | | |
| EUT Pol. | :E1 Plan | Measurement Antenna Pol. | :HORIZONTAL |



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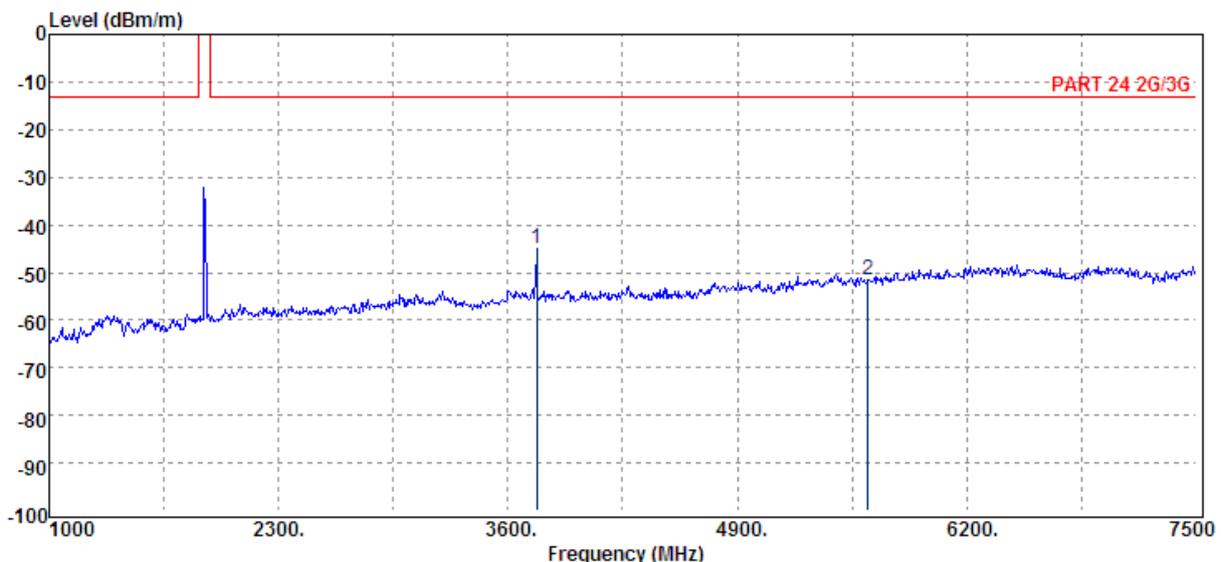
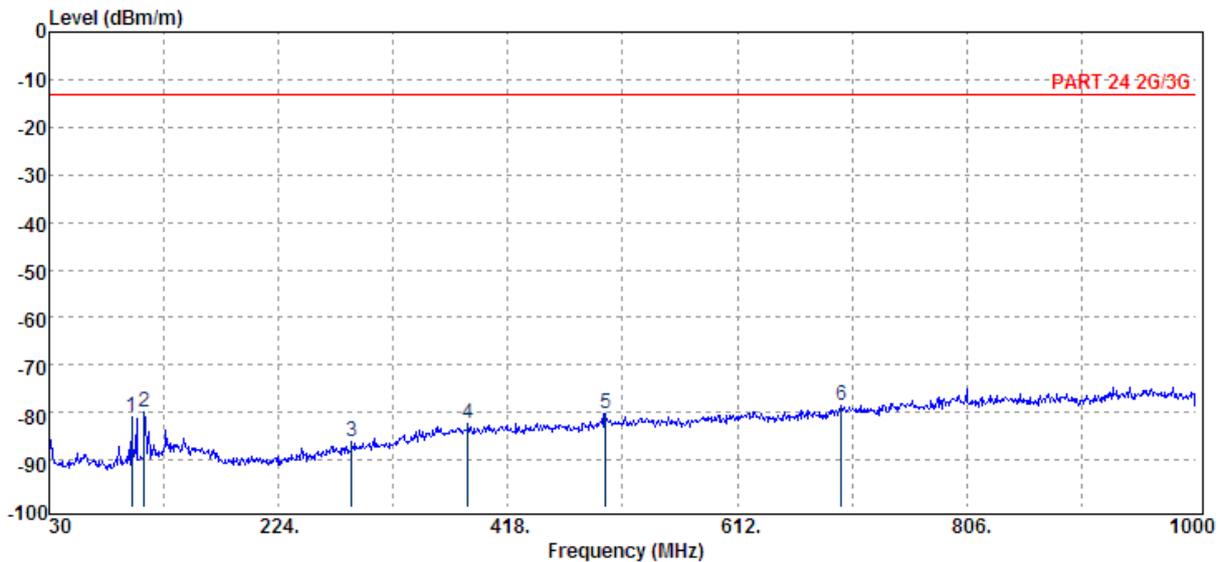


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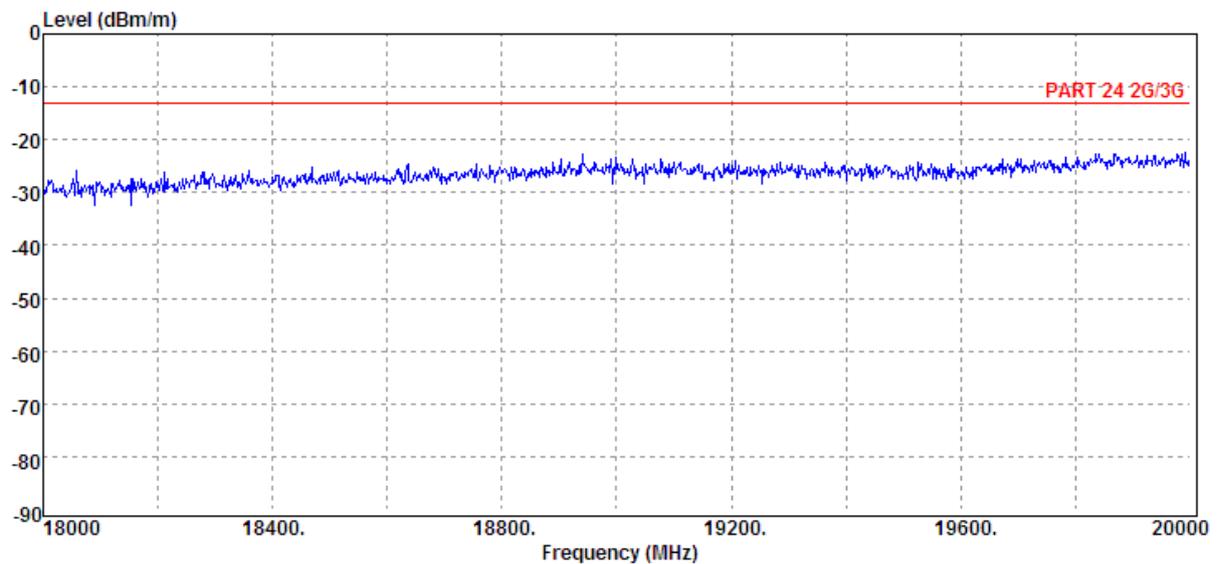
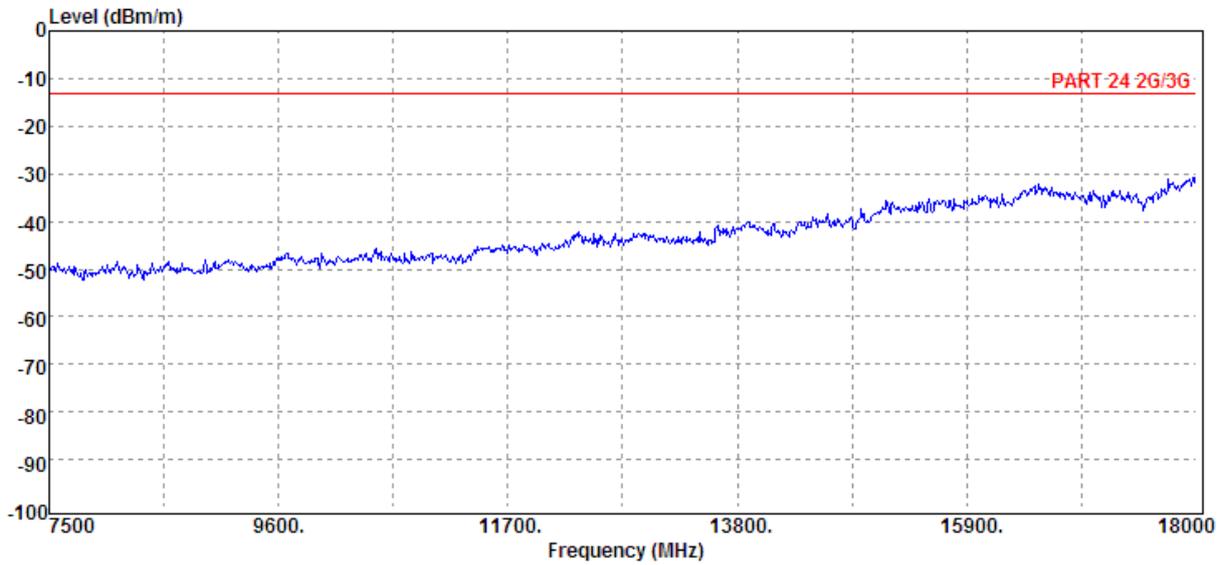
| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :GSM 1900 | Test Date | :2012-07-06 |
| ARFCN | :CH 661 | Temp./Humi. | :27 deg_C / 66 RH |
| Fundamental Frequency | :1880.0 MHz | Engineer | :Jimmy |
| Operation Mode | :TX | | |
| EUT Pol. | :E1 Plan | Measurement Antenna Pol. | :VERTICAL |



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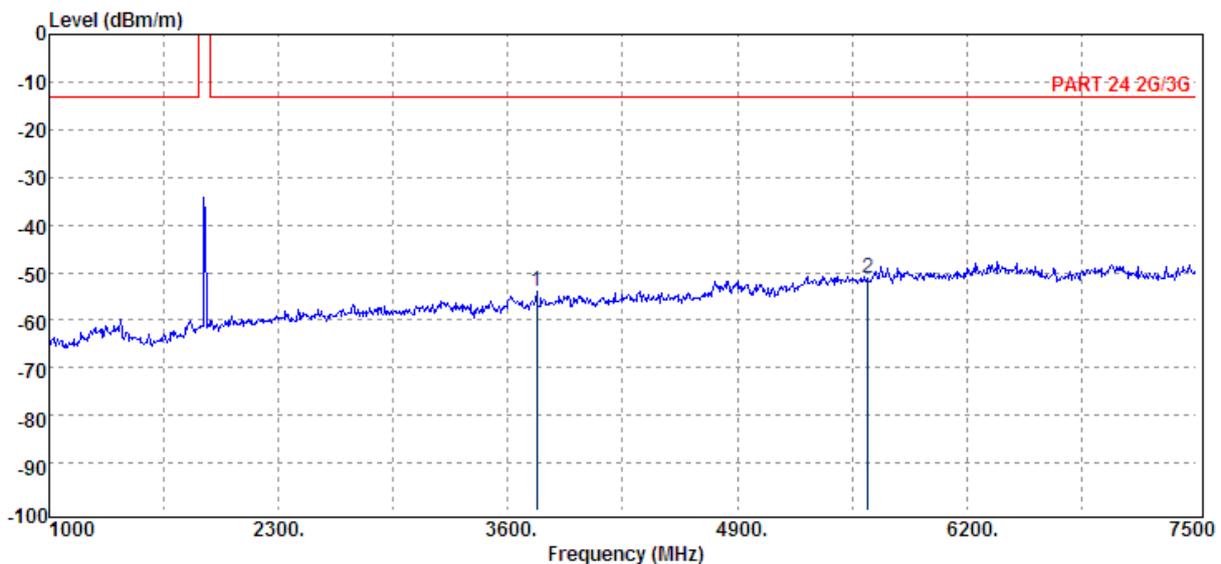
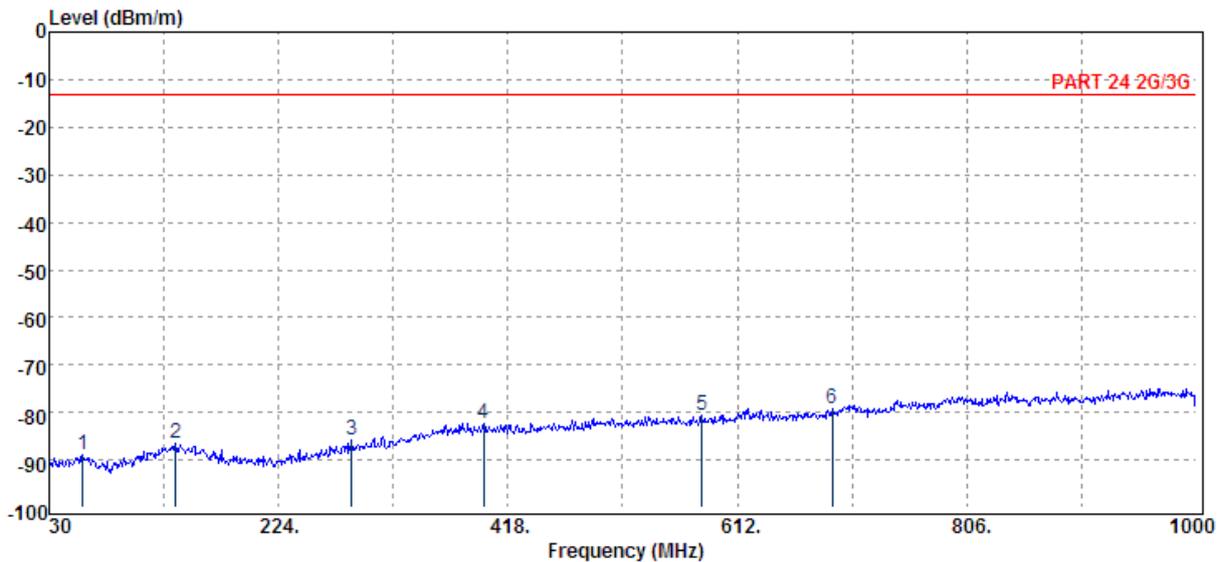


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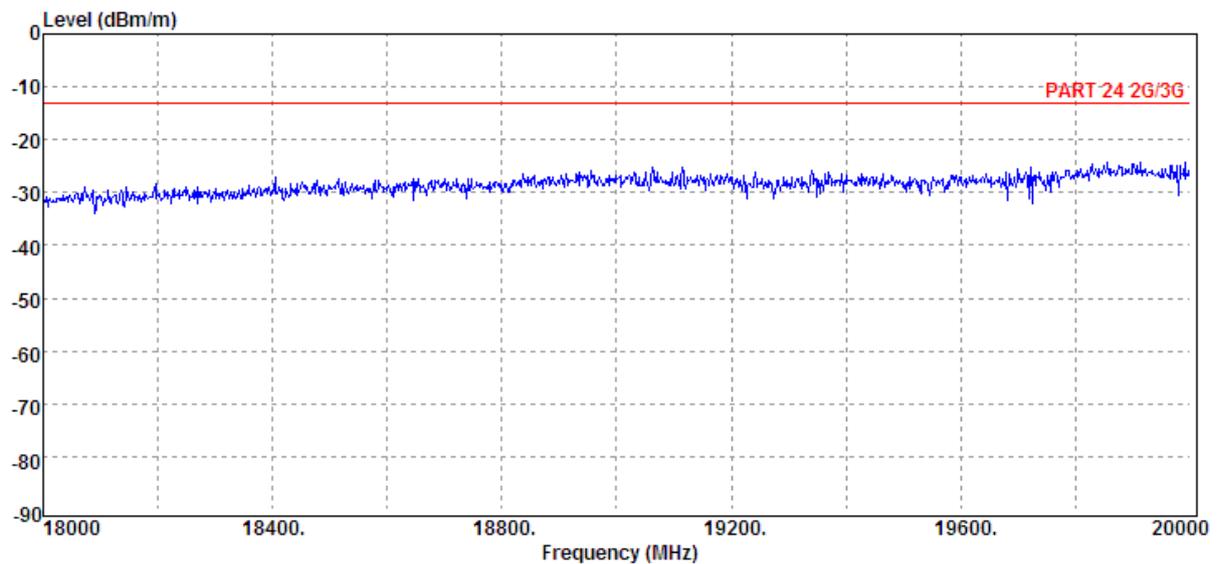
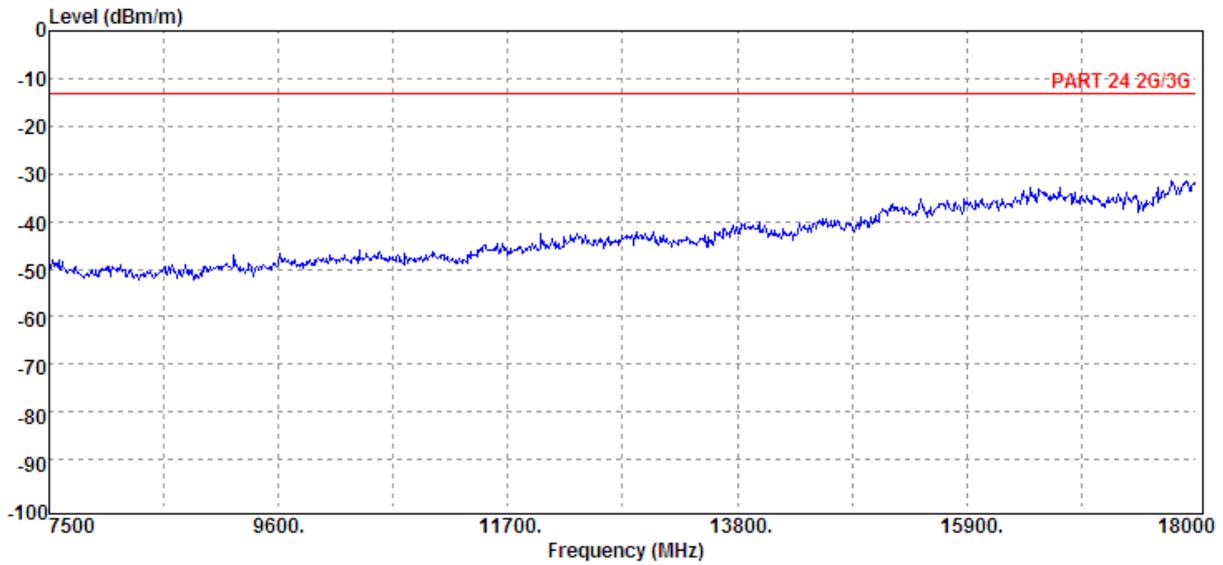
| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :GSM 1900 | Test Date | :2012-07-06 |
| ARFCN | :CH 661 | Temp./Humi. | :27 deg_C / 66 RH |
| Fundamental Frequency | :1880.0 MHz | Engineer | :Jimmy |
| Operation Mode | :TX | | |
| EUT Pol. | :E1 Plan | Measurement Antenna Pol. | :HORIZONTAL |



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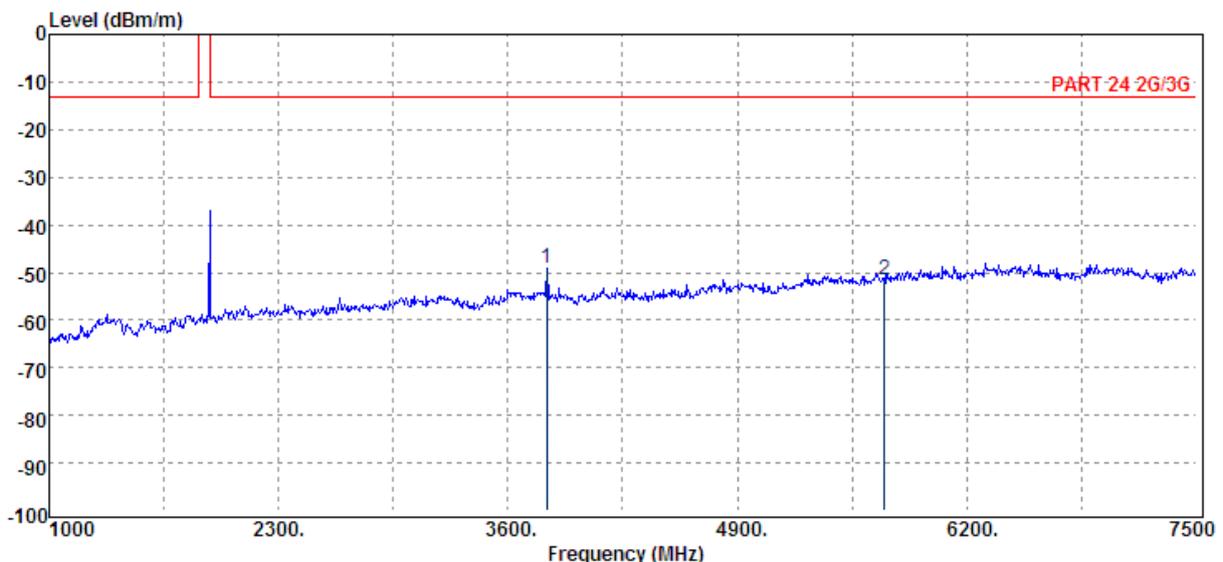
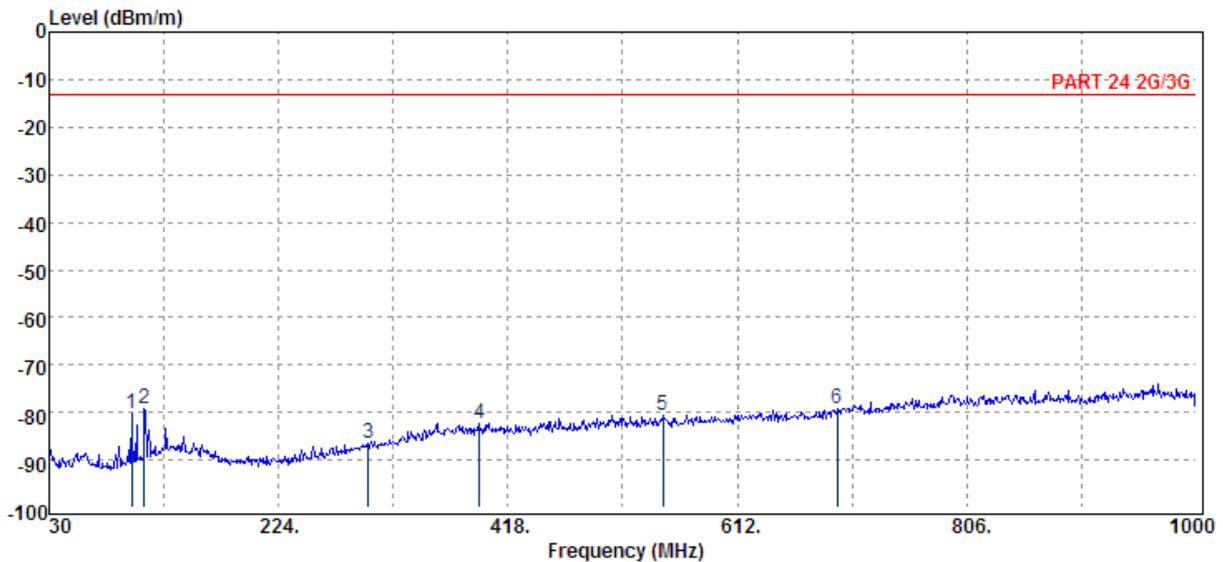
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Operation Band :GSM 1900
ARFCN :CH 810
Fundamental Frequency :1909.8 MHz
Operation Mode :TX
EUT Pol. :E1 Plan

Test Date :2012-07-06
Temp./Humi. :27 deg_C / 66 RH
Engineer :Jimmy

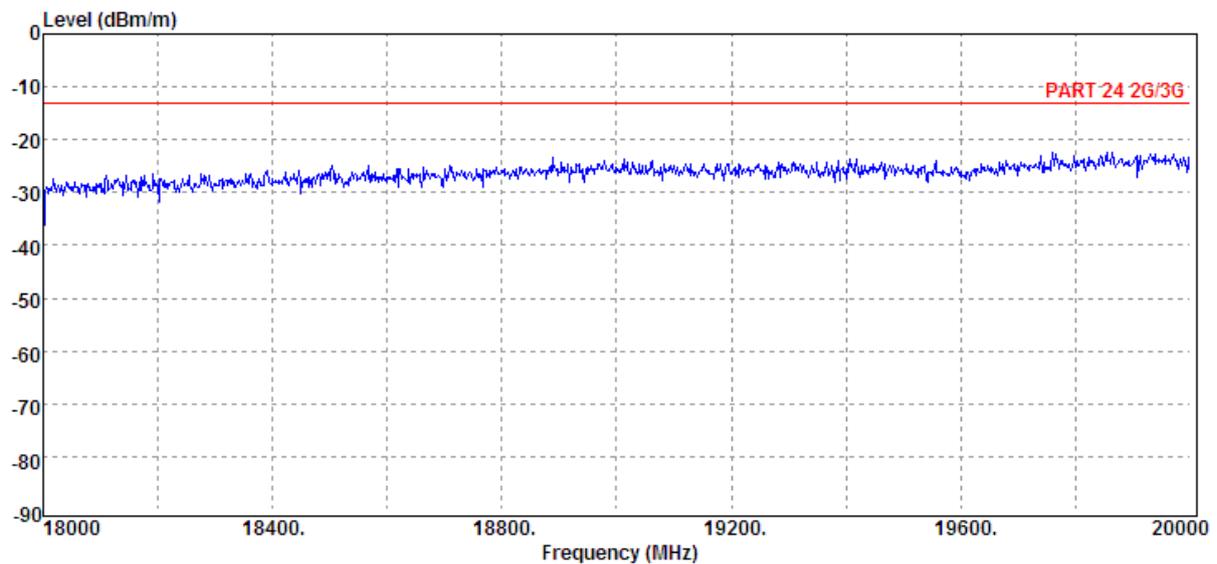
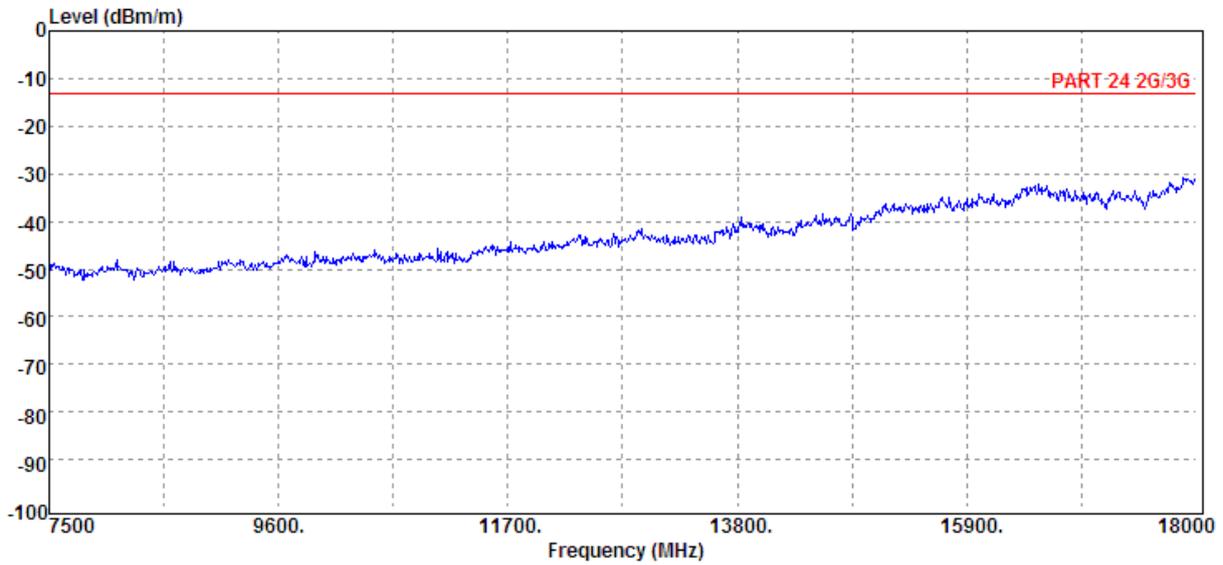
Measurement Antenna Pol. :VERTICAL



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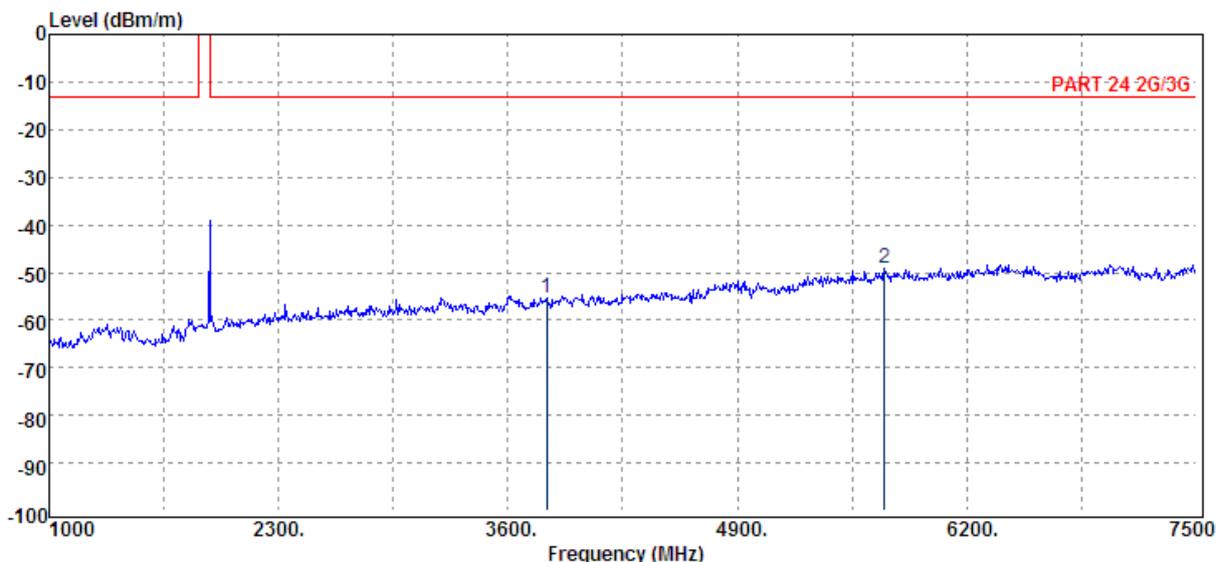
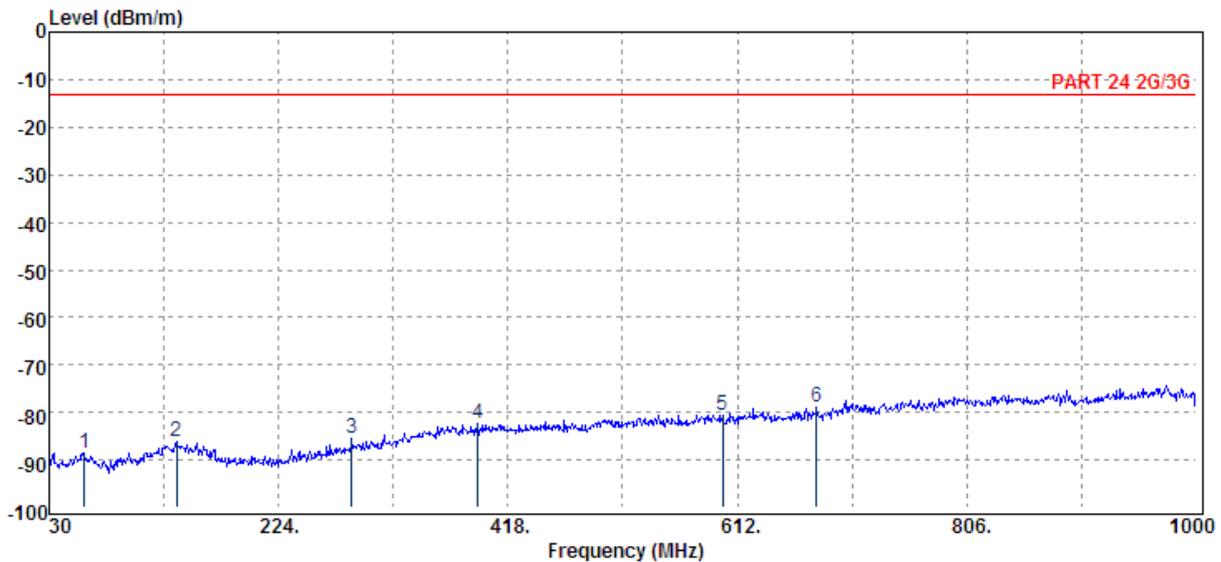


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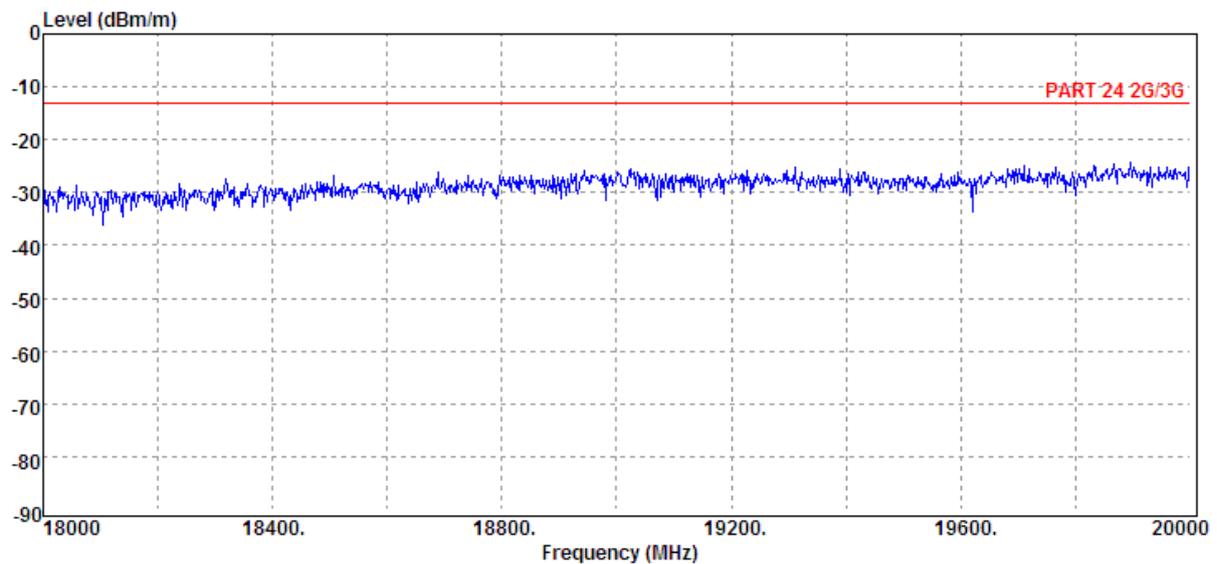
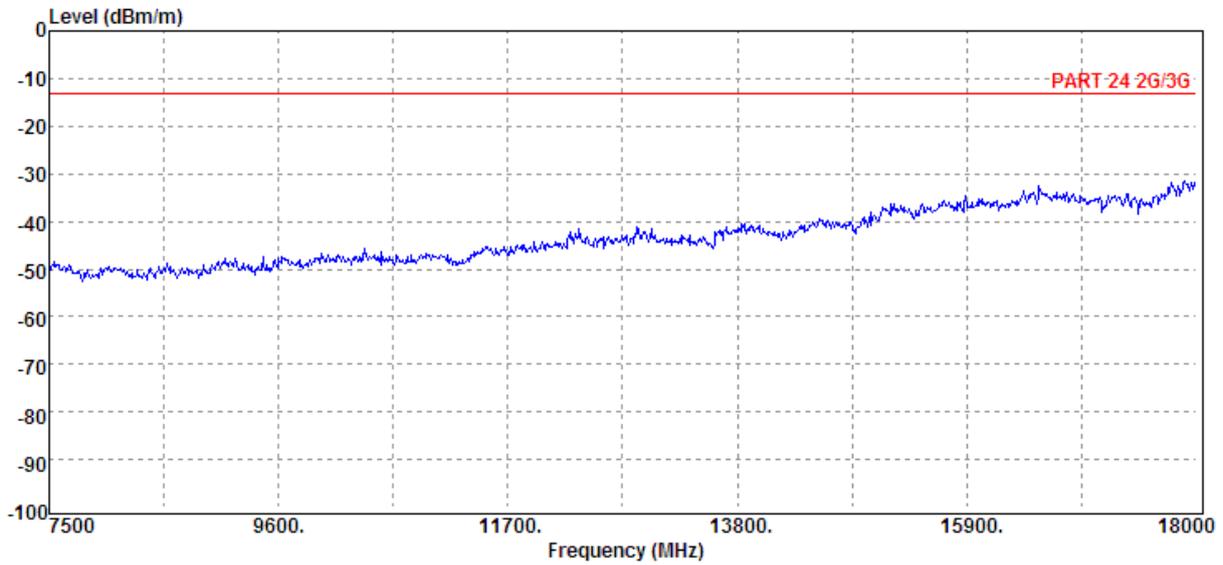
| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :GSM 1900 | Test Date | :2012-07-06 |
| ARFCN | :CH 810 | Temp./Humi. | :27 deg_C / 66 RH |
| Fundamental Frequency | :1909.8 MHz | Engineer | :Jimmy |
| Operation Mode | :TX | | |
| EUT Pol. | :E1 Plan | Measurement Antenna Pol. | :HORIZONTAL |



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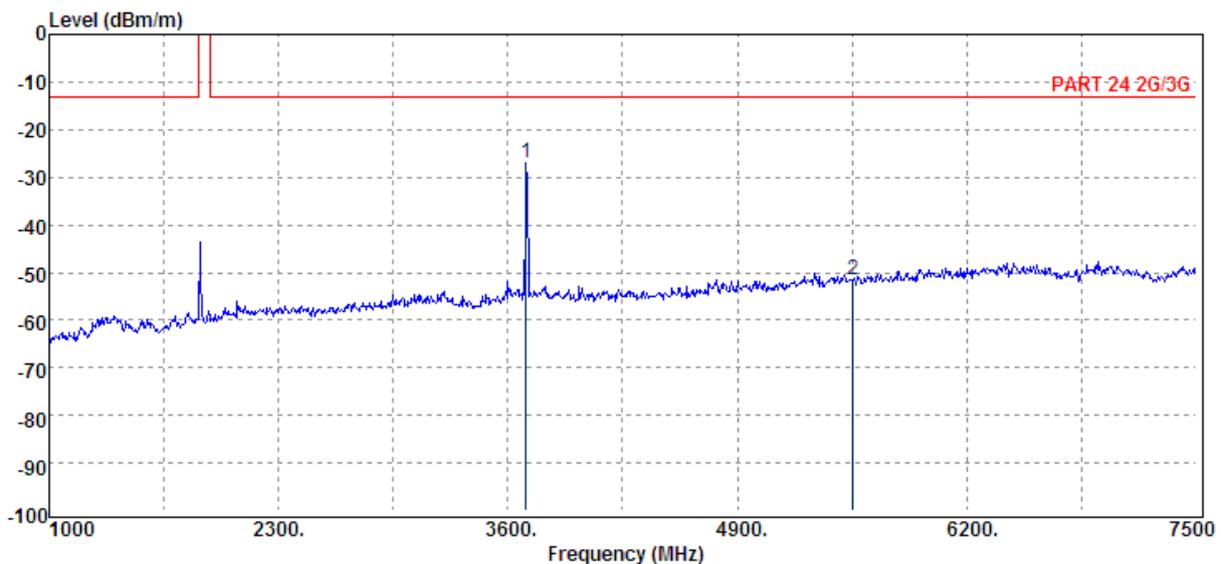
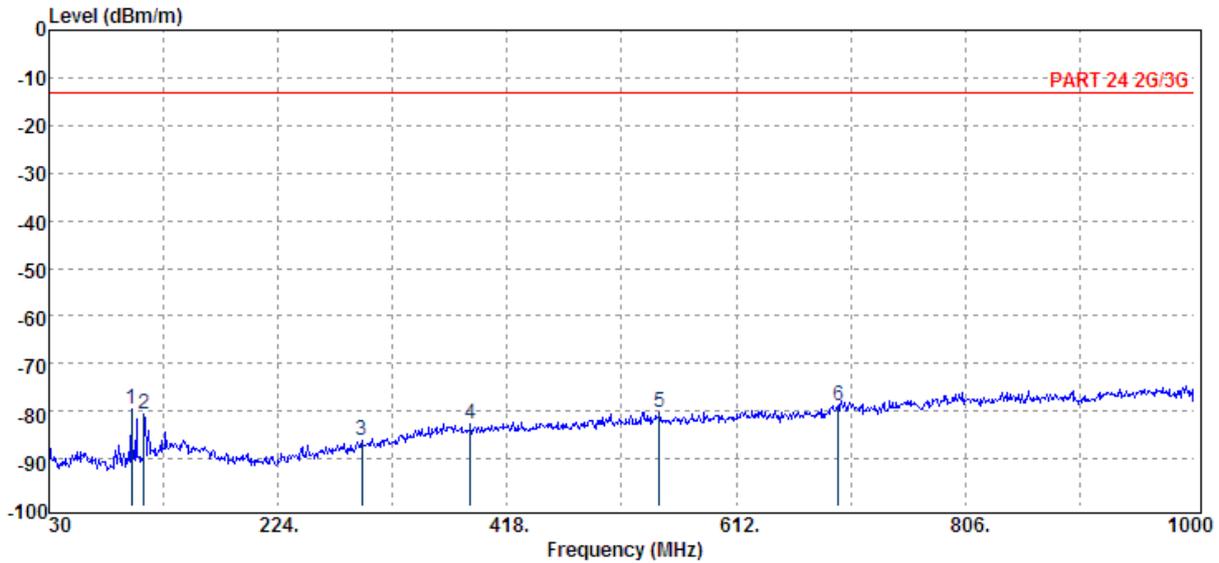
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Radiated Spurious Emission Measurement Result: HSUPA II Mode

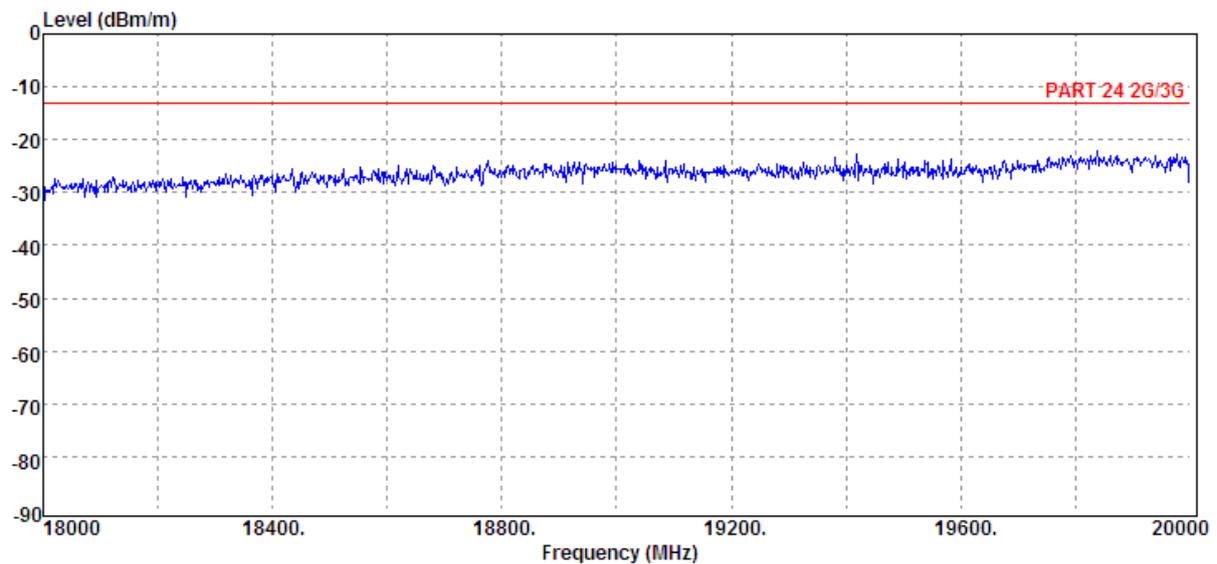
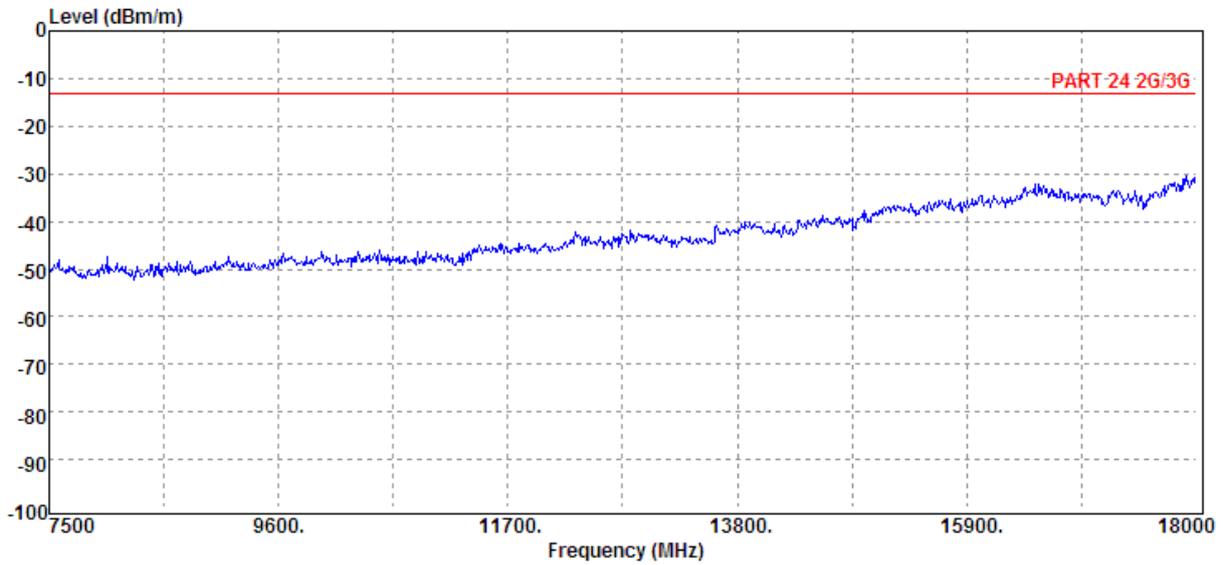
| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :HSUPA B2 | Test Date | :2012-07-06 |
| ARFCN | :CH 9262 | Temp./Humi. | :27 deg_C / 66 RH |
| Fundamental Frequency | :1852.4 MHz | Engineer | :Jimmy |
| Operation Mode | :TX | | |
| EUT Pol. | :E1 Plan | Measurement Antenna Pol. | :VERTICAL |



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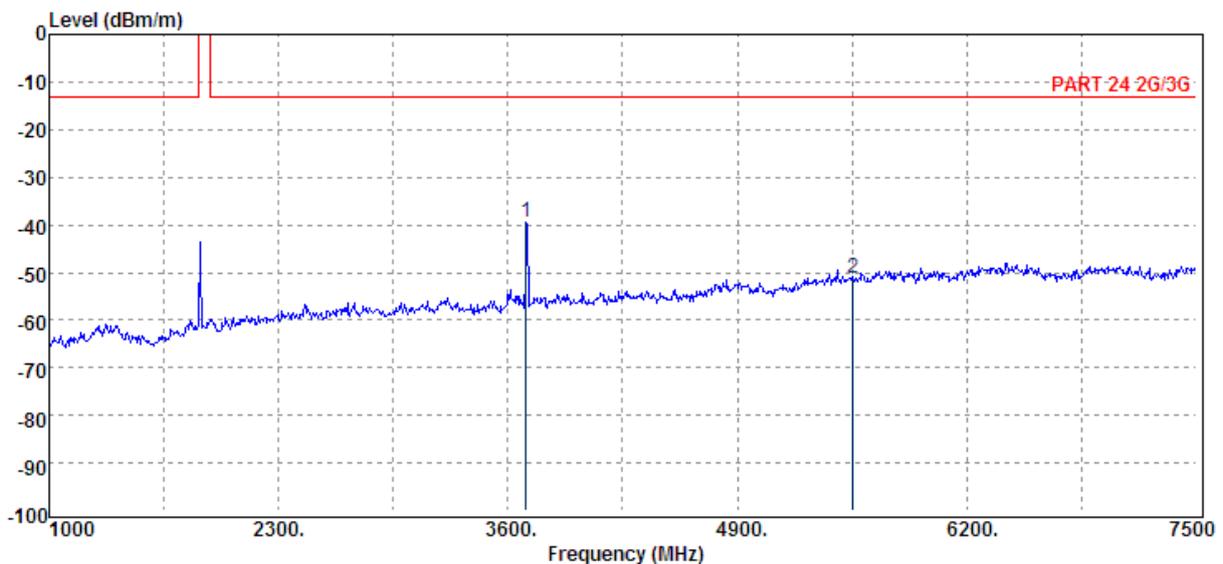
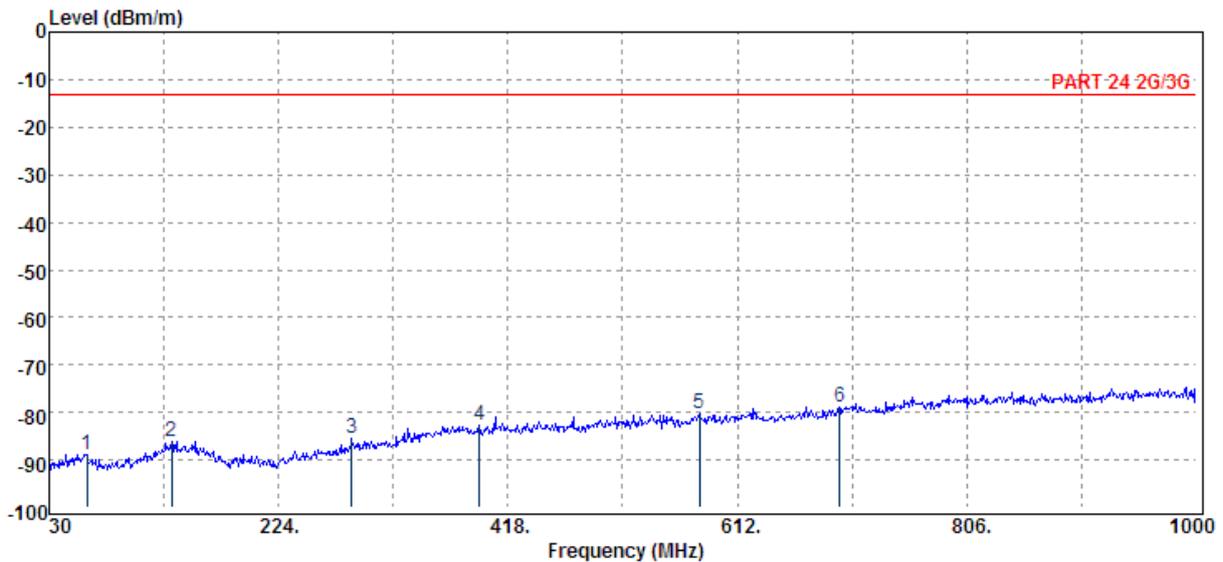


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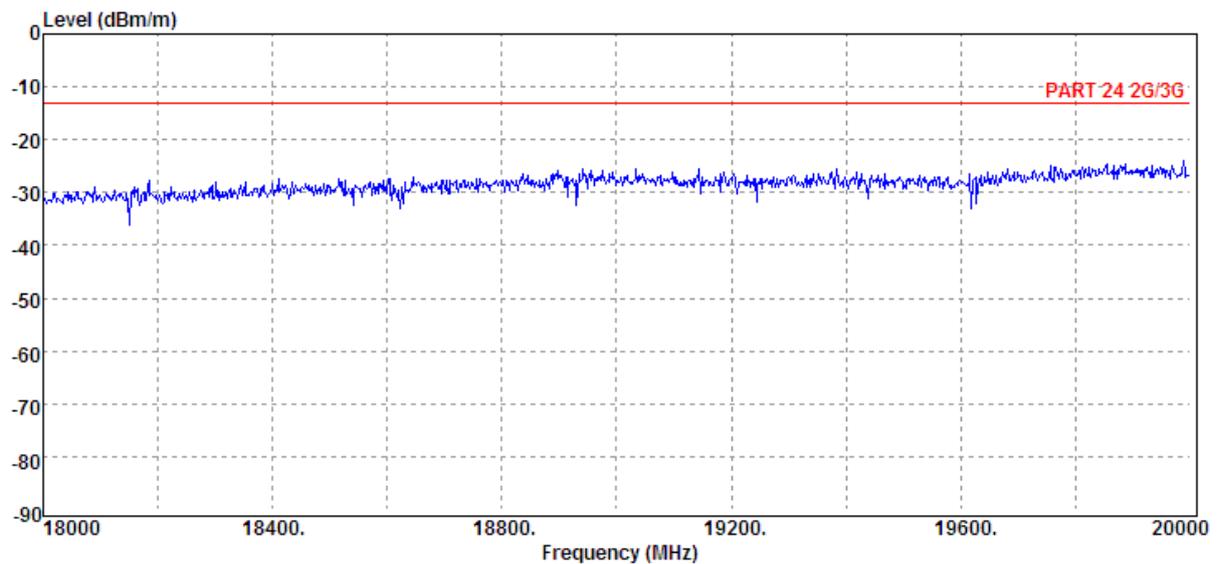
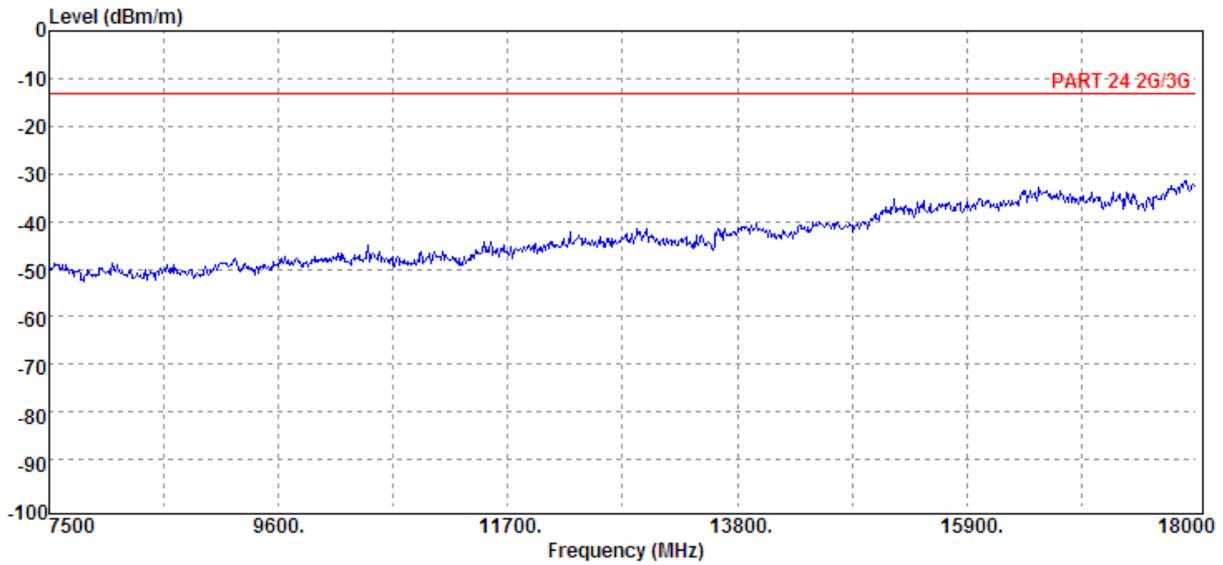
| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :HSUPA B2 | Test Date | :2012-07-06 |
| ARFCN | :CH 9262 | Temp./Humi. | :27 deg_C / 66 RH |
| Fundamental Frequency | :1852.4 MHz | Engineer | :Jimmy |
| Operation Mode | :TX | | |
| EUT Pol. | :E1 Plan | Measurement Antenna Pol. | :HORIZONTAL |



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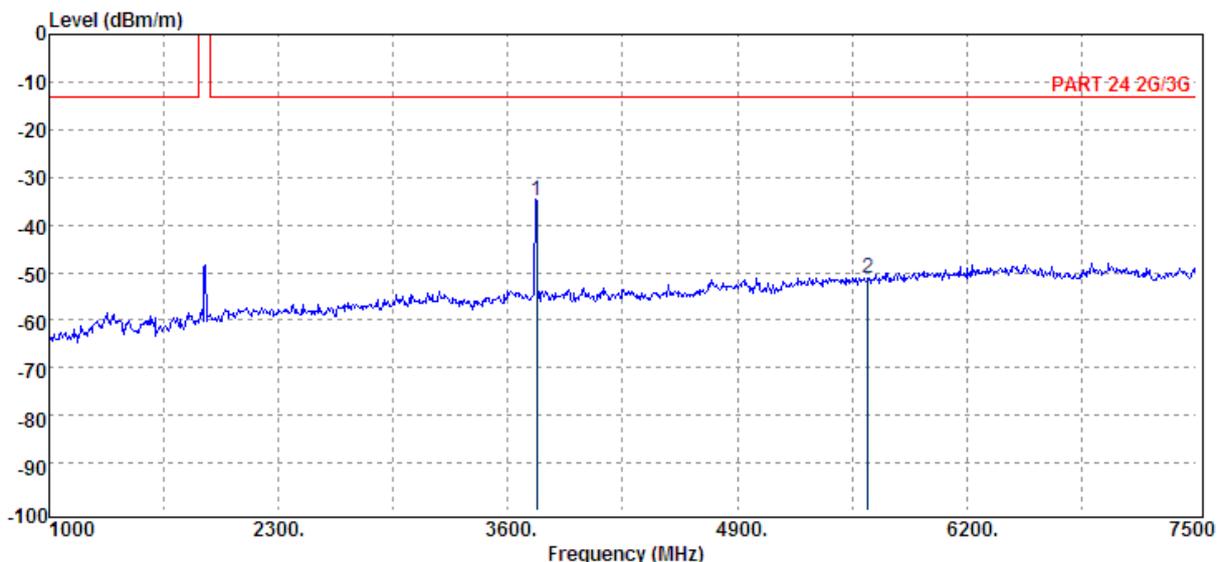
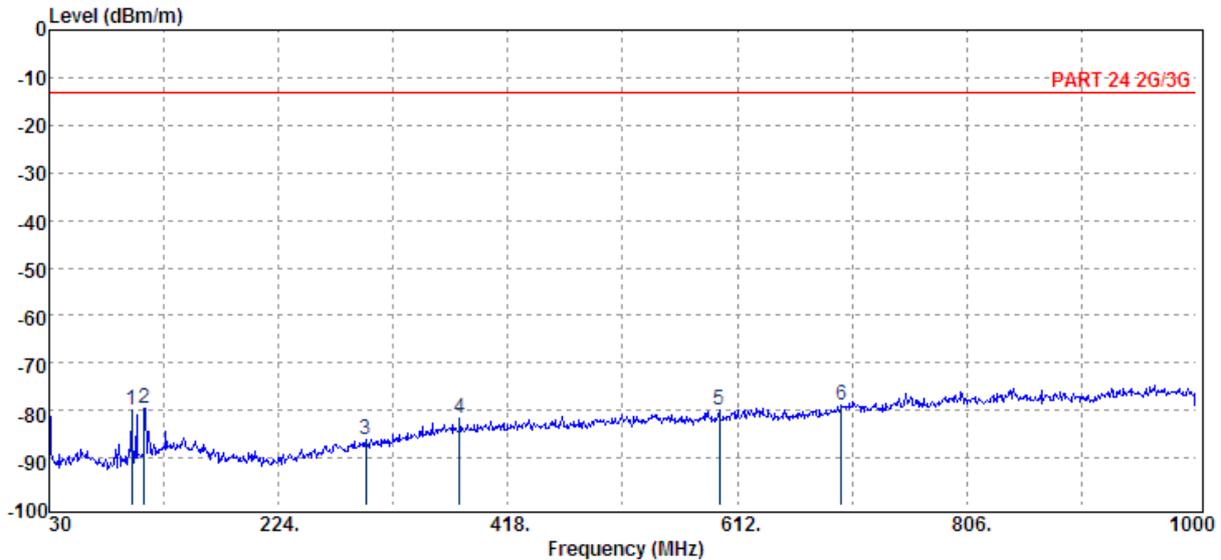


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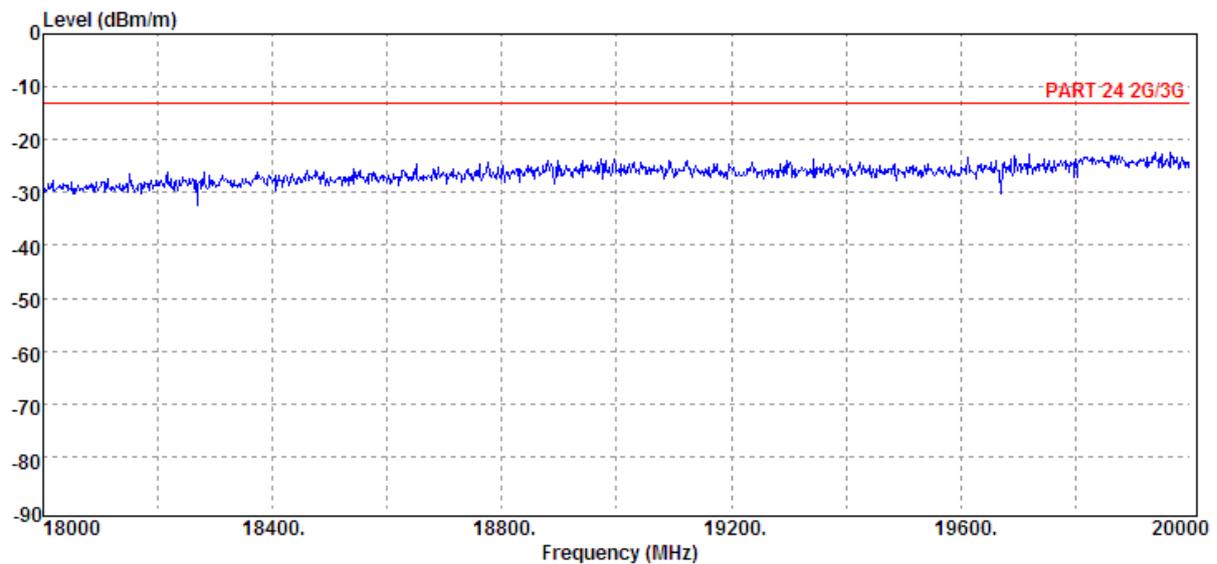
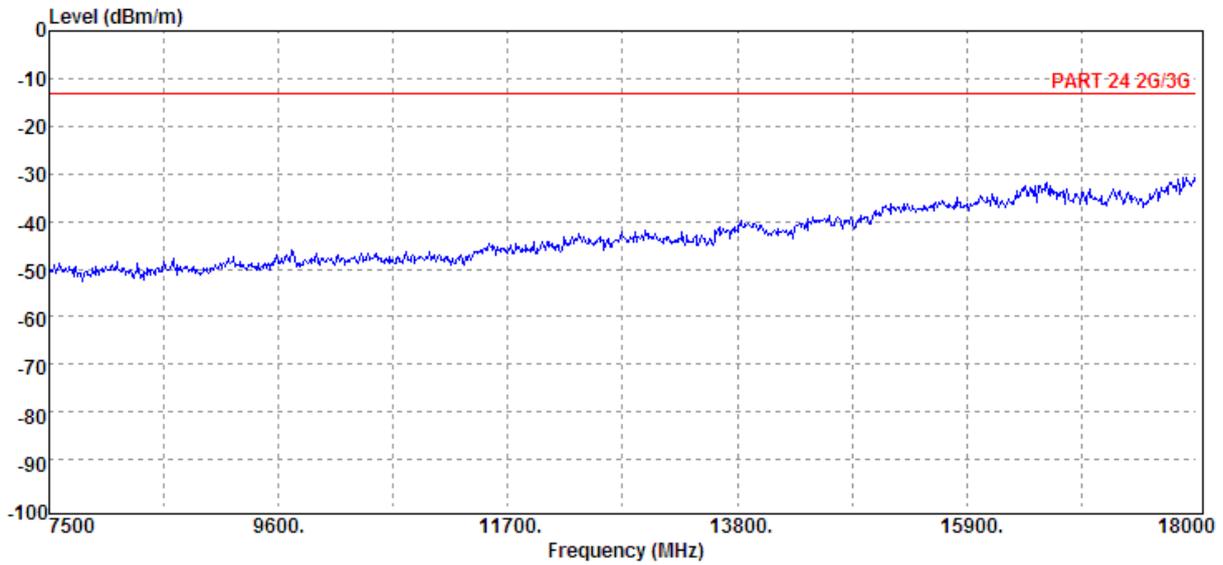
| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :HSUPA B2 | Test Date | :2012-07-06 |
| ARFCN | :CH 9400 | Temp./Humi. | :27 deg_C / 66 RH |
| Fundamental Frequency | :1880.0 MHz | Engineer | :Jimmy |
| Operation Mode | :TX | | |
| EUT Pol. | :E1 Plan | Measurement Antenna Pol. | :VERTICAL |



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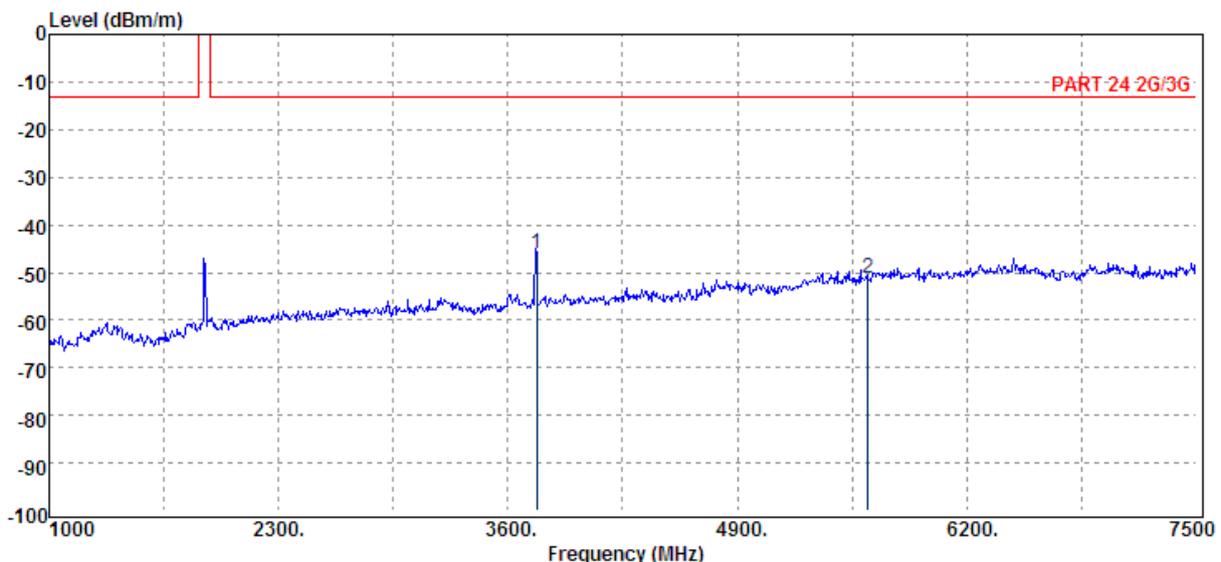
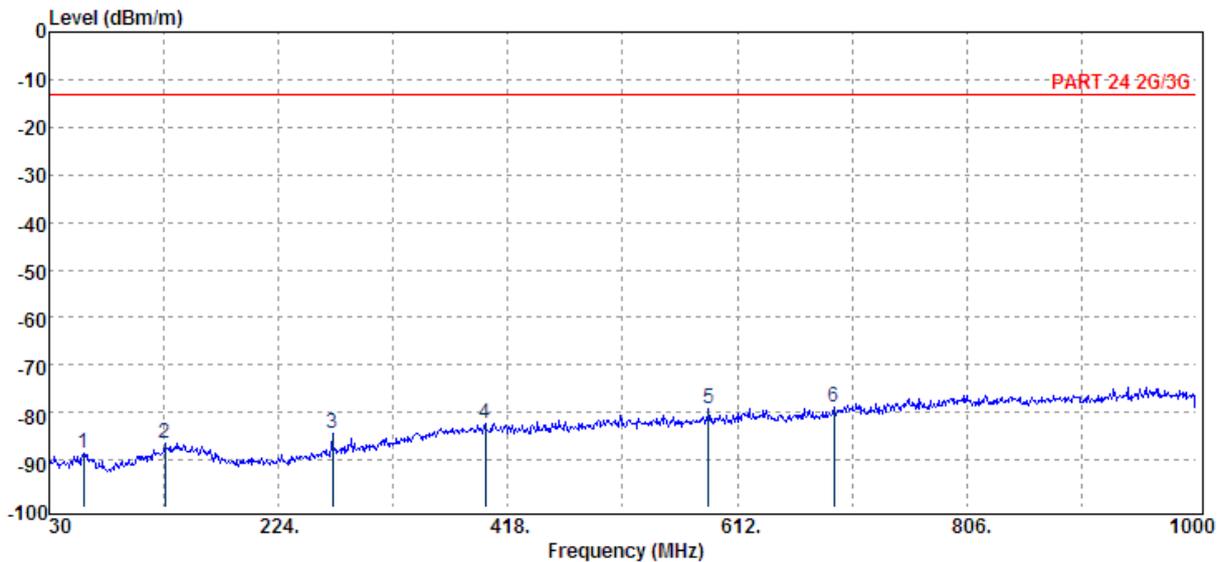


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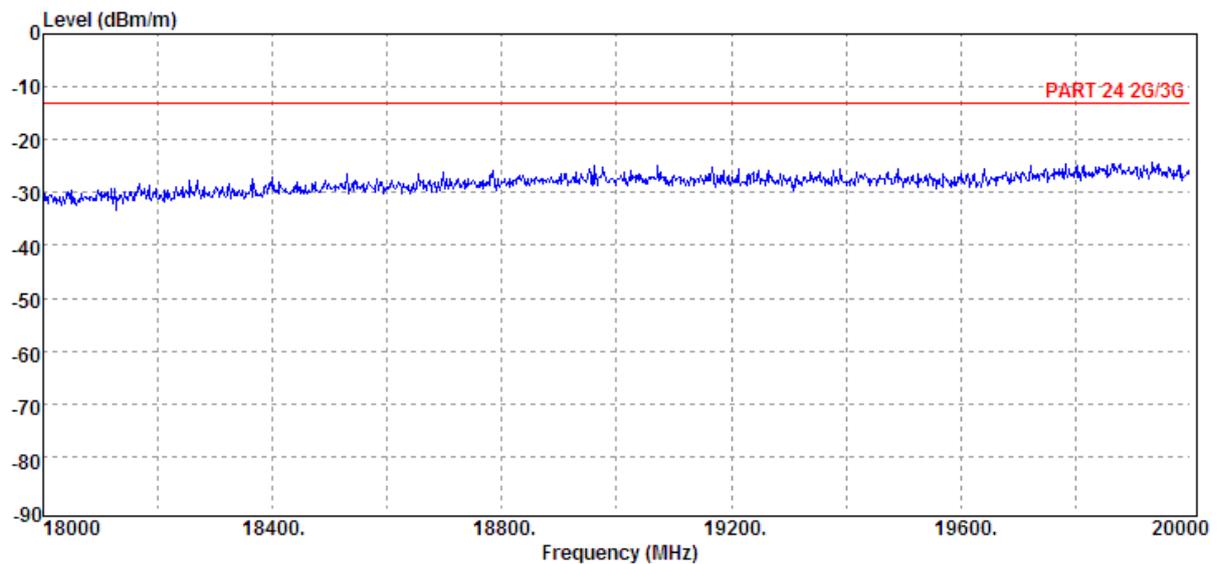
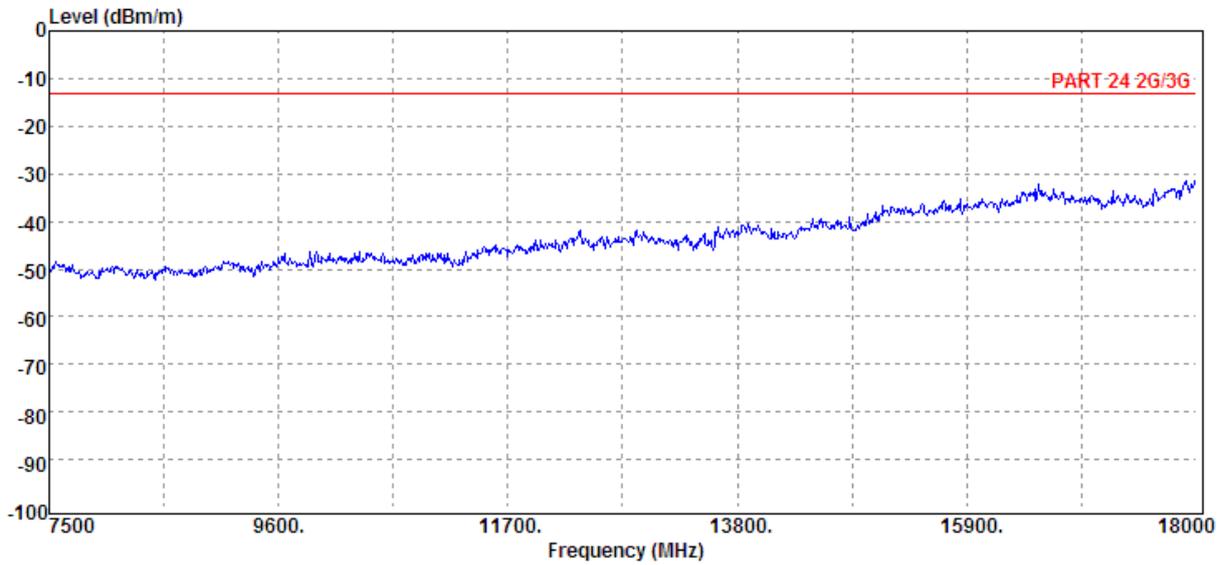
| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :HSUPA B2 | Test Date | :2012-07-06 |
| ARFCN | :CH 9400 | Temp./Humi. | :27 deg_C / 66 RH |
| Fundamental Frequency | :1880.0 MHz | Engineer | :Jimmy |
| Operation Mode | :TX | | |
| EUT Pol. | :E1 Plan | Measurement Antenna Pol. | :HORIZONTAL |



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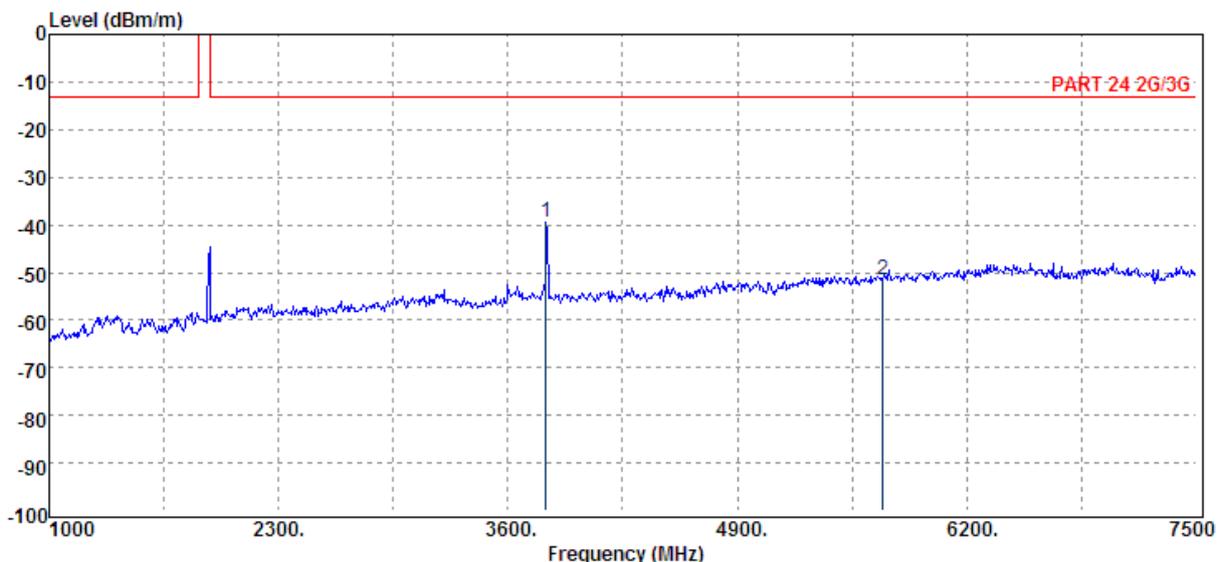
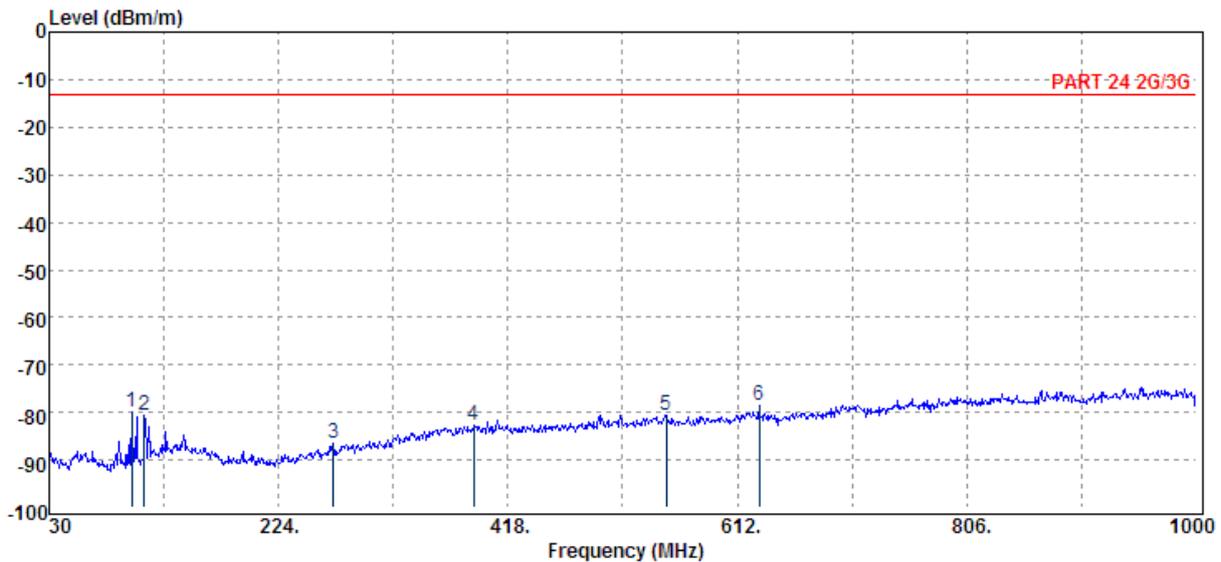


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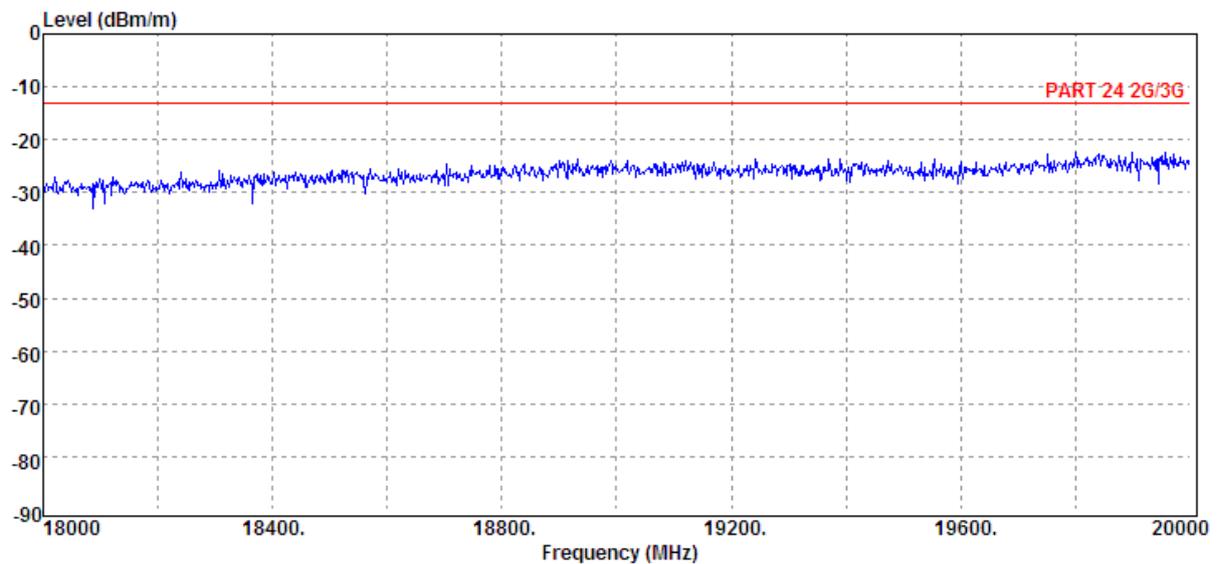
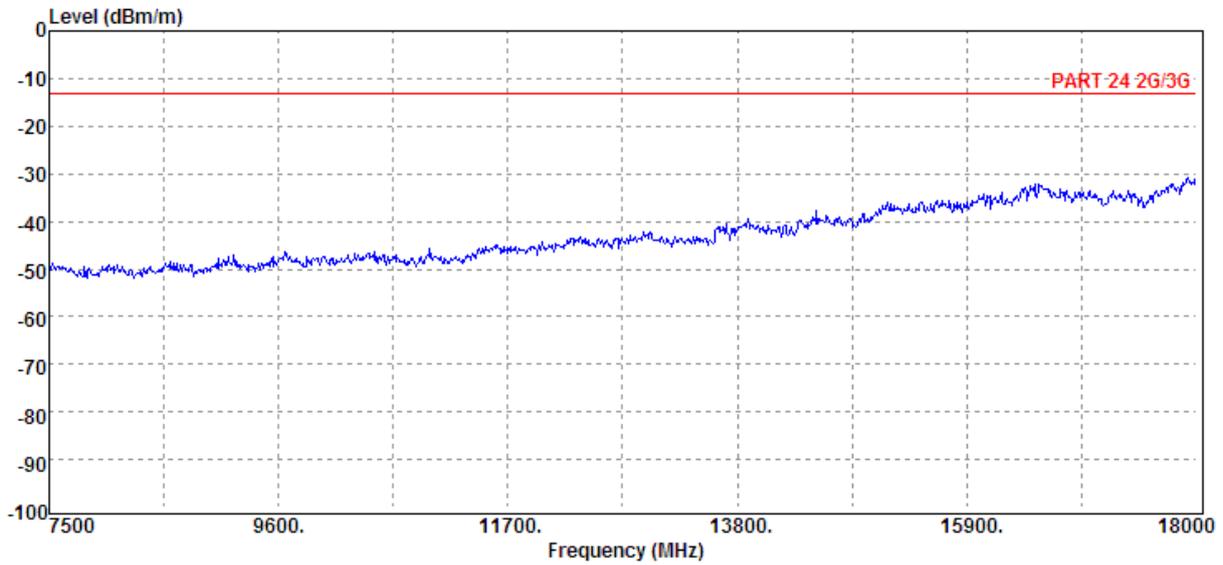
| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :HSUPA B2 | Test Date | :2012-07-06 |
| ARFCN | :CH 9538 | Temp./Humi. | :27 deg_C / 66 RH |
| Fundamental Frequency | :1970.6 MHz | Engineer | :Jimmy |
| Operation Mode | :TX | | |
| EUT Pol. | :E1 Plan | Measurement Antenna Pol. | :VERTICAL |



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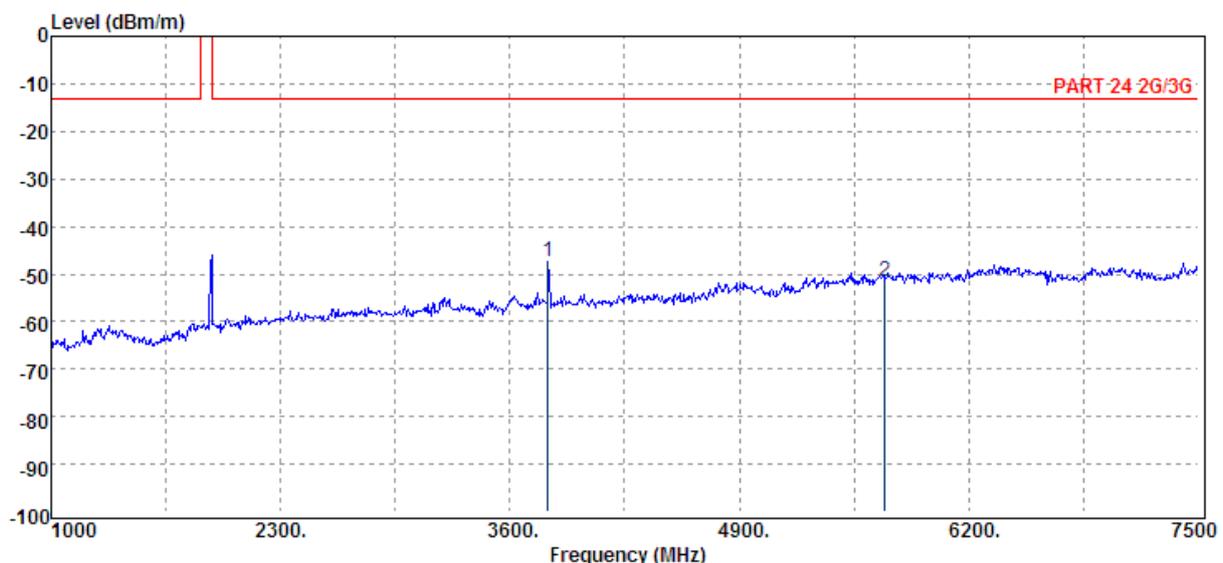
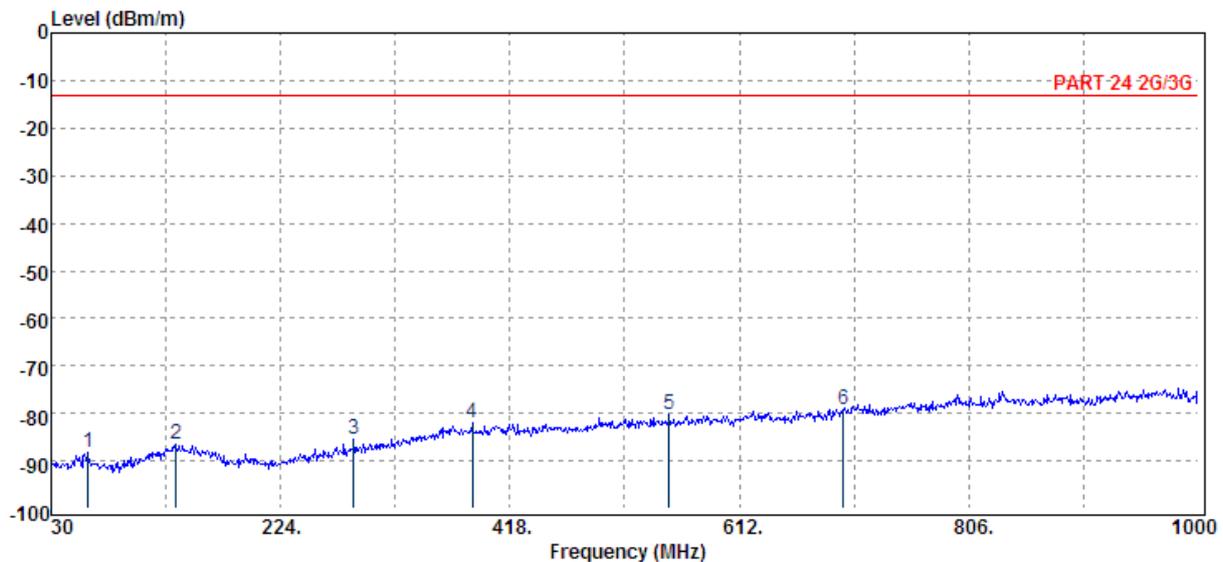


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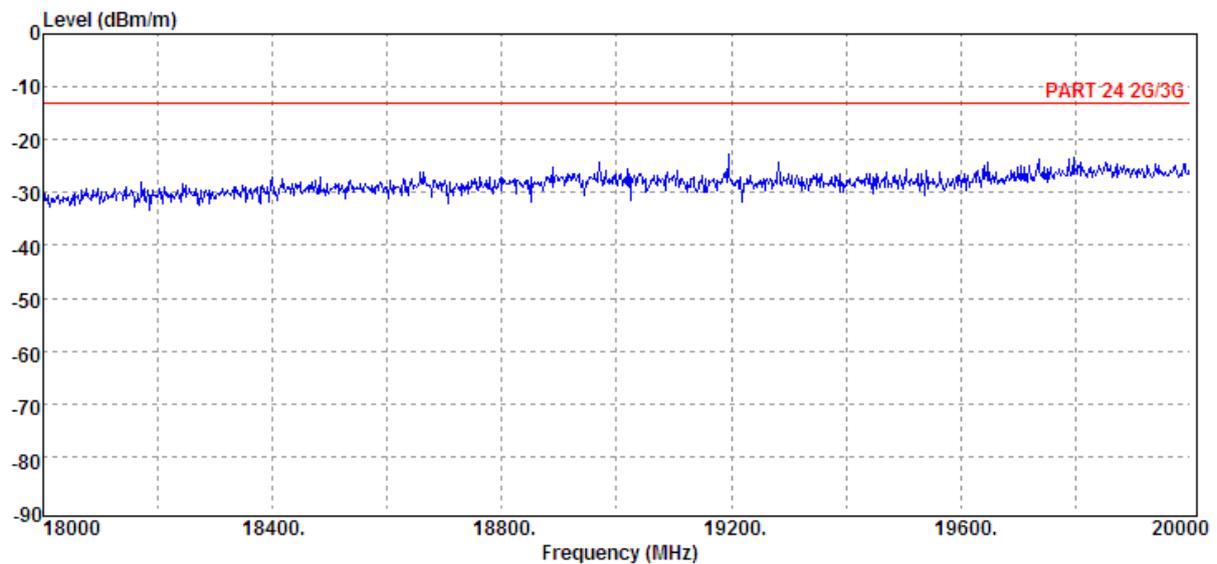
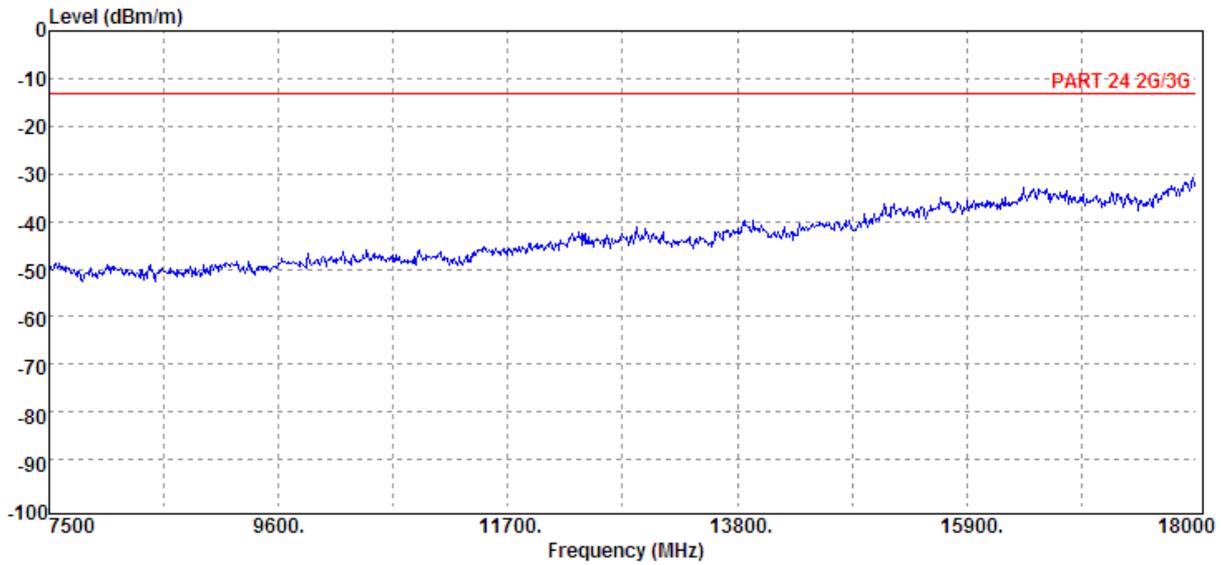
| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :HSUPA B2 | Test Date | :2012-07-06 |
| ARFCN | :CH 9538 | Temp./Humi. | :27 deg_C / 66 RH |
| Fundamental Frequency | :1970.6 MHz | Engineer | :Jimmy |
| Operation Mode | :TX | | |
| EUT Pol. | :E1 Plan | Measurement Antenna Pol. | :HORIZONTAL |



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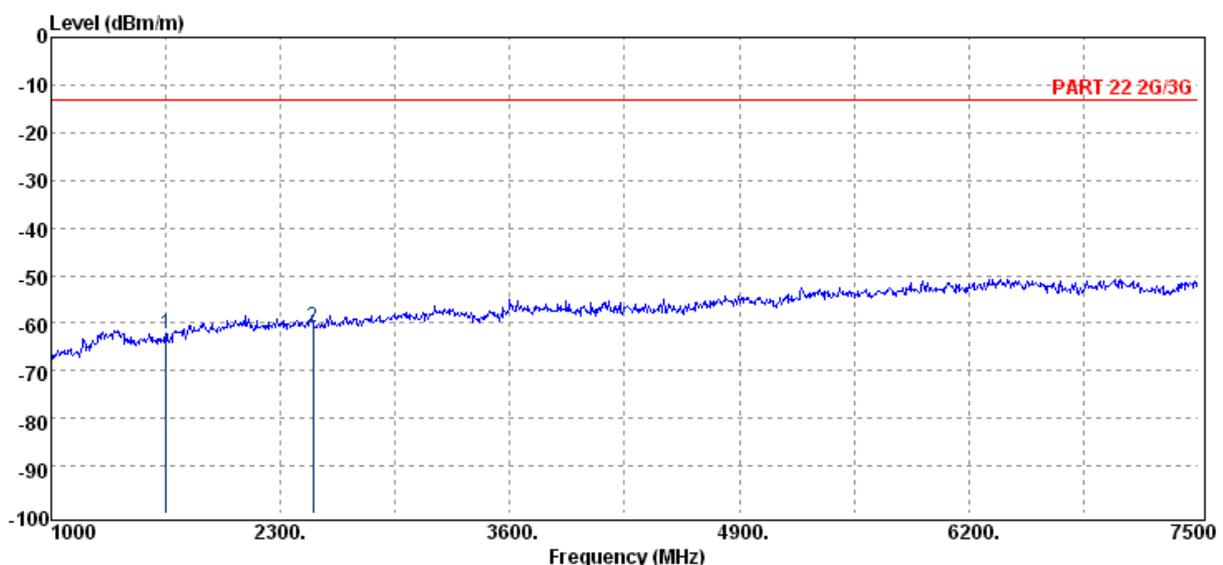
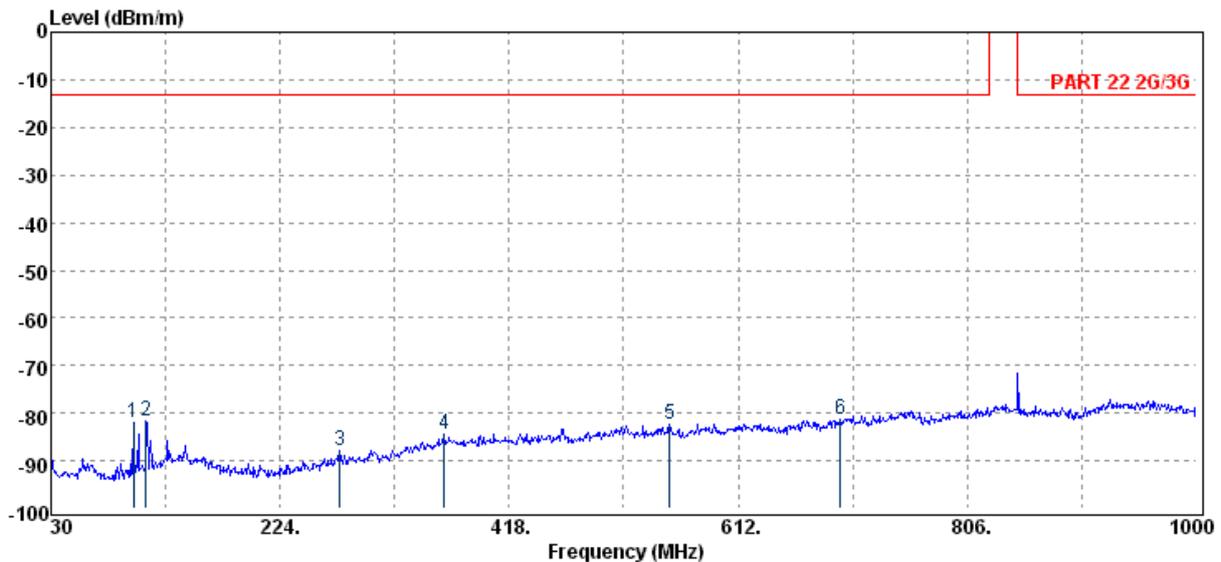
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Radiated Spurious Emission Measurement Result: HSUPA V Mode

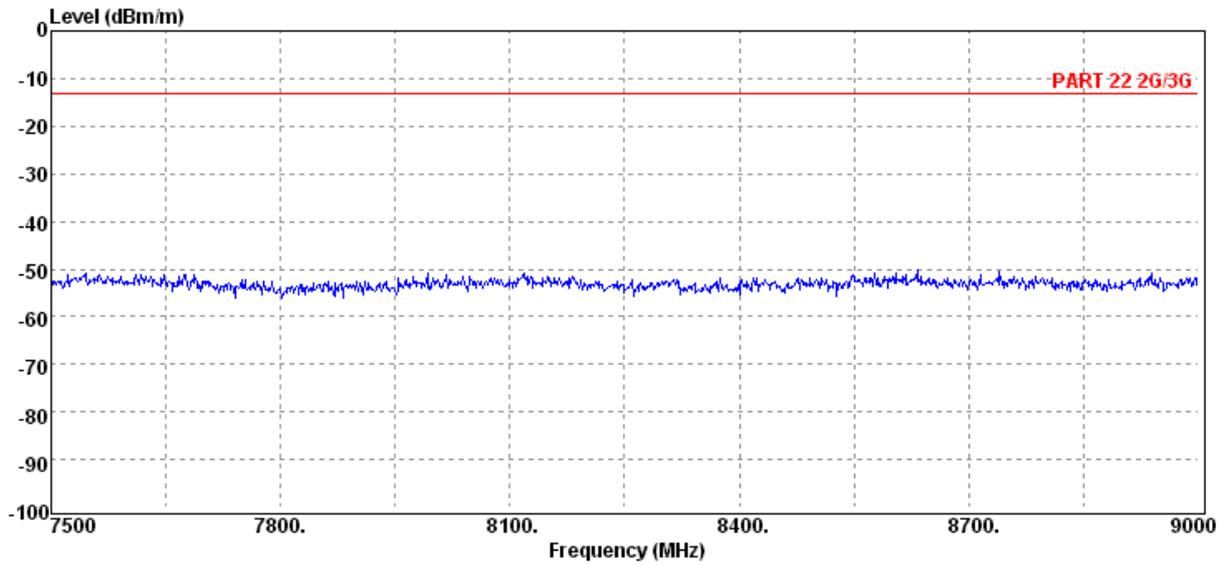
| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :HSUPA B5 | Test Date | :2012-07-06 |
| ARFCN | :CH 4132 | Temp./Humi. | :27 deg_C / 66 RH |
| Fundamental Frequency | :826.4 MHz | Engineer | :Jimmy |
| Operation Mode | :TX | | |
| EUT Pol. | :E2 PLAN | Measurement Antenna Pol. | :VERTICAL |



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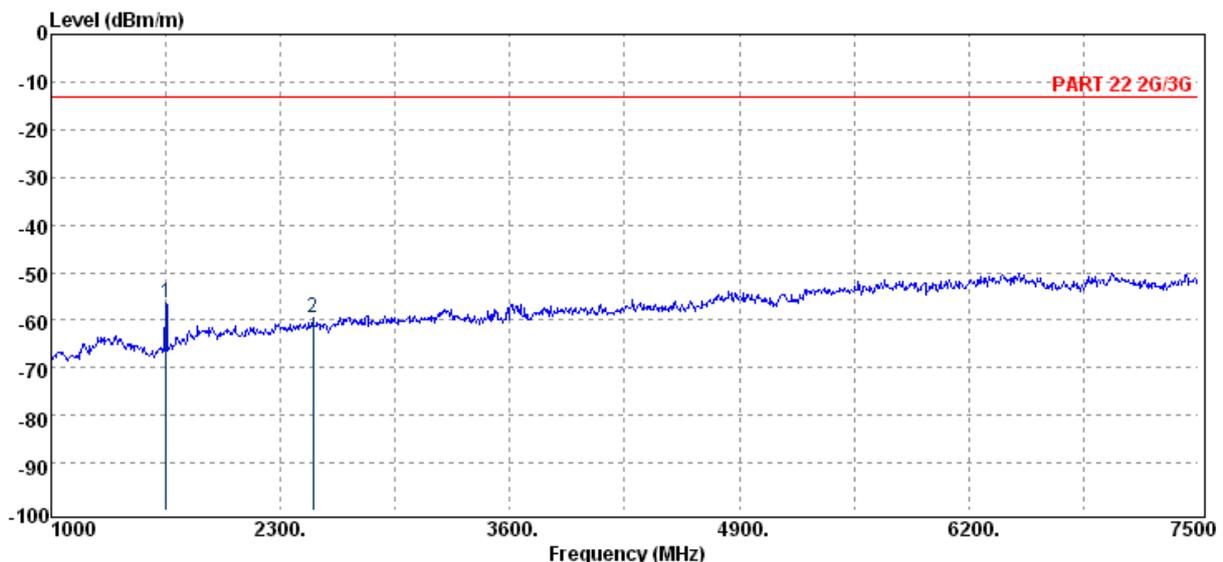
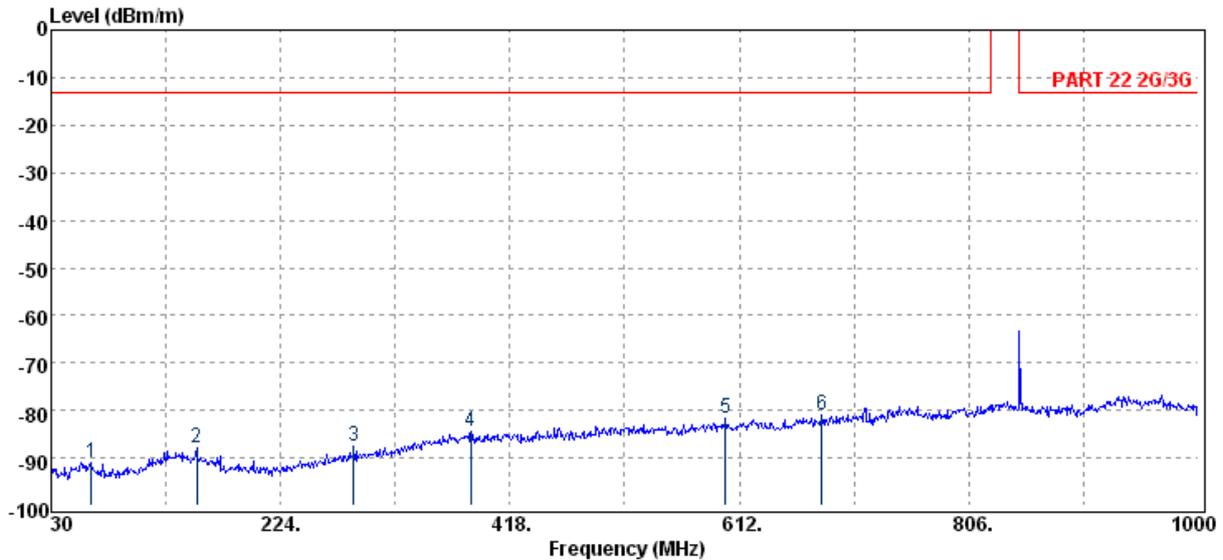


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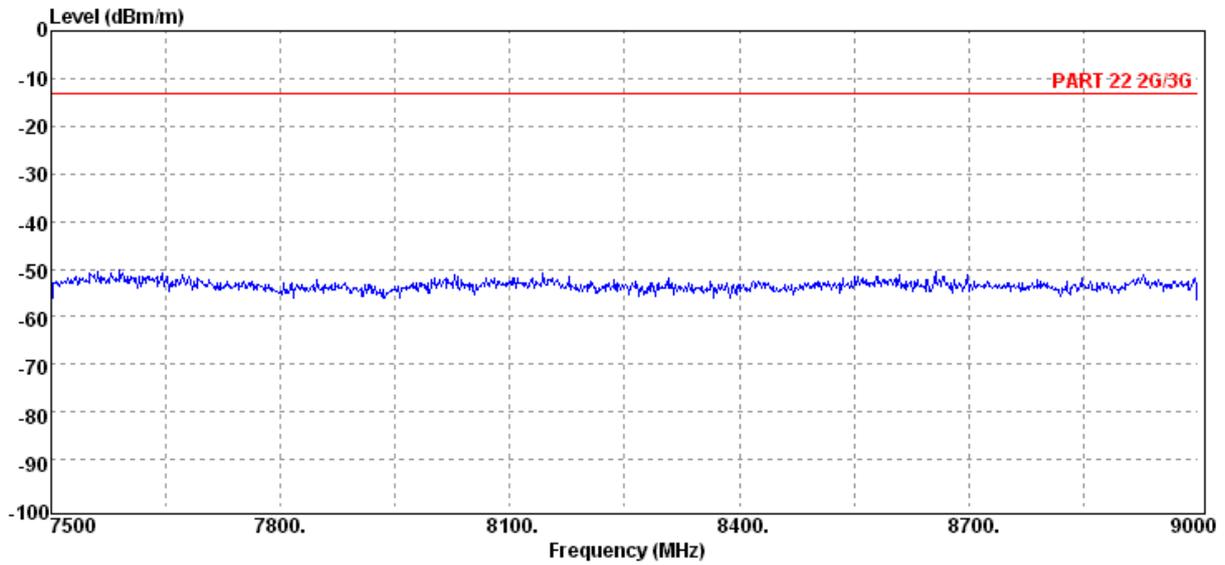
| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :HSUPA B5 | Test Date | :2012-07-06 |
| ARFCN | :CH 4132 | Temp./Humi. | :27 deg_C / 66 RH |
| Fundamental Frequency | :826.4 MHz | Engineer | :Jimmy |
| Operation Mode | :TX | | |
| EUT Pol. | :E2 PLAN | Measurement Antenna Pol. | :HORIZONTAL |



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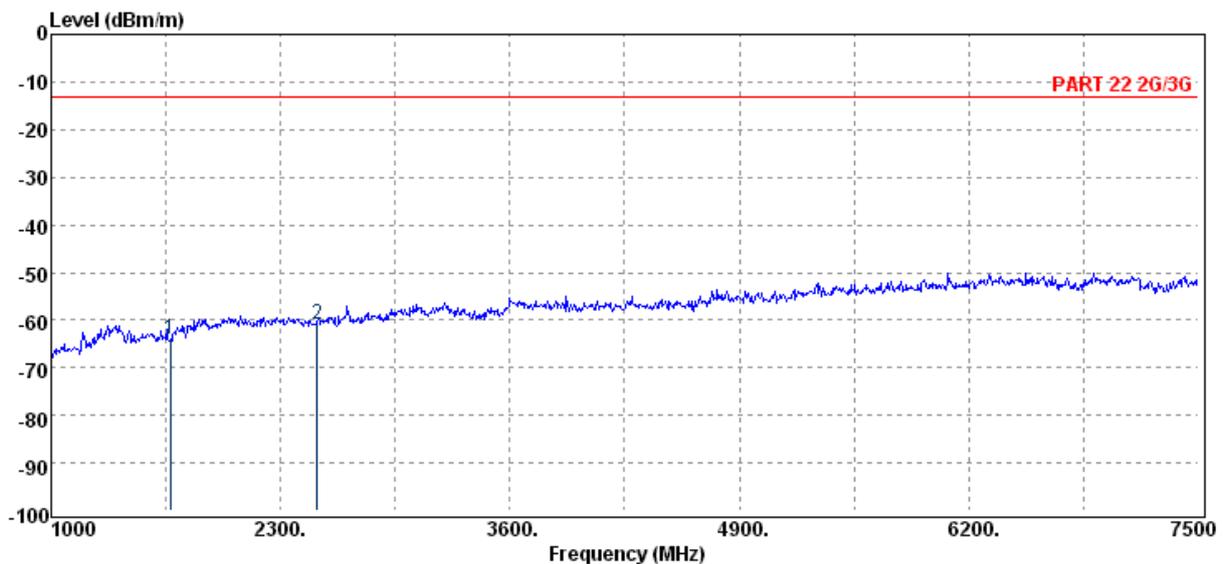
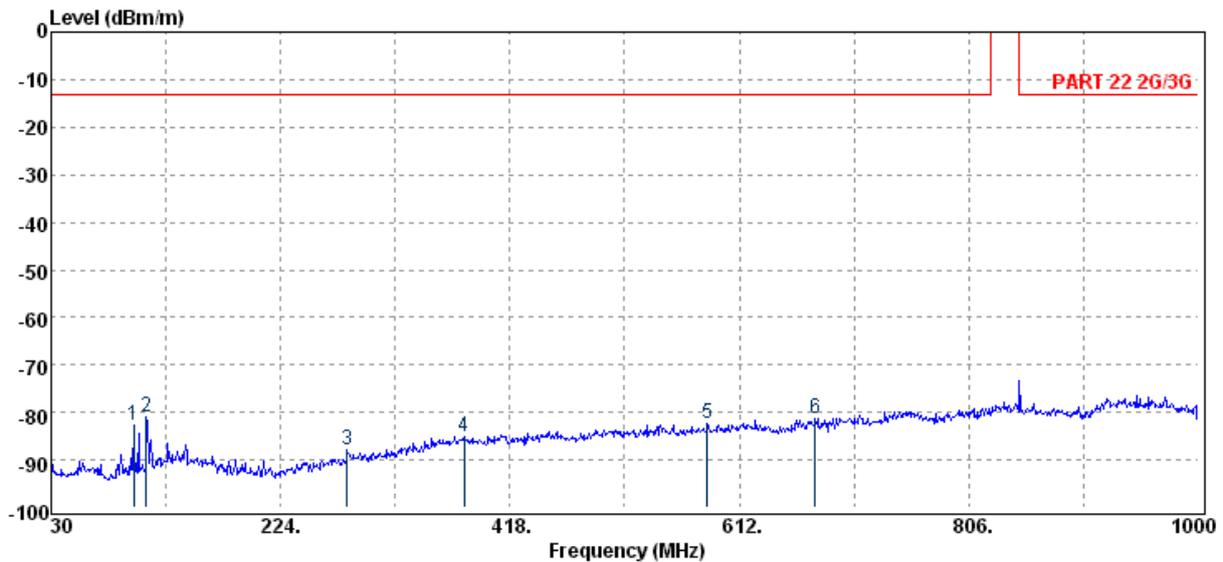


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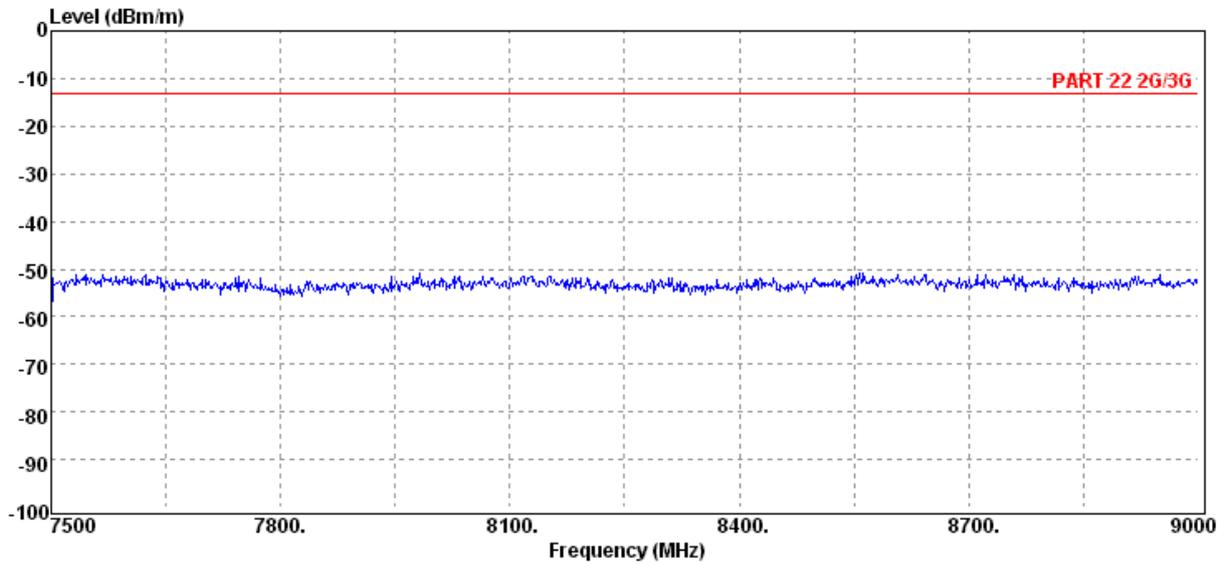
| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :HSUPA B5 | Test Date | :2012-07-06 |
| ARFCN | :CH 4183 | Temp./Humi. | :27 deg_C / 66 RH |
| Fundamental Frequency | :836.6 MHz | Engineer | :Jimmy |
| Operation Mode | :TX | | |
| EUT Pol. | :E2 PLAN | Measurement Antenna Pol. | :VERTICAL |



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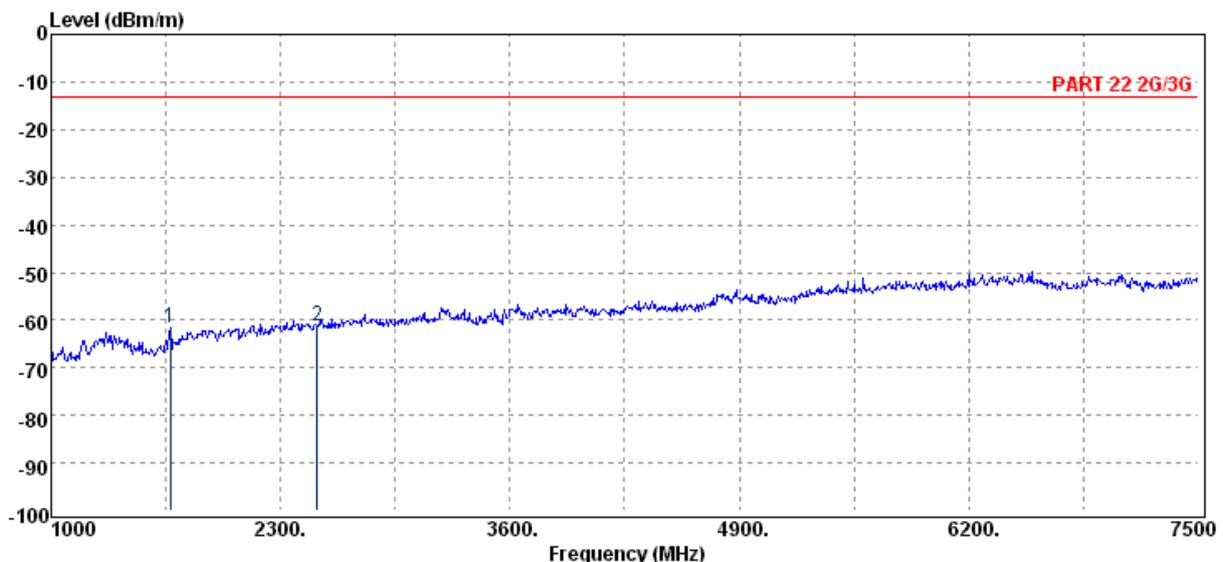
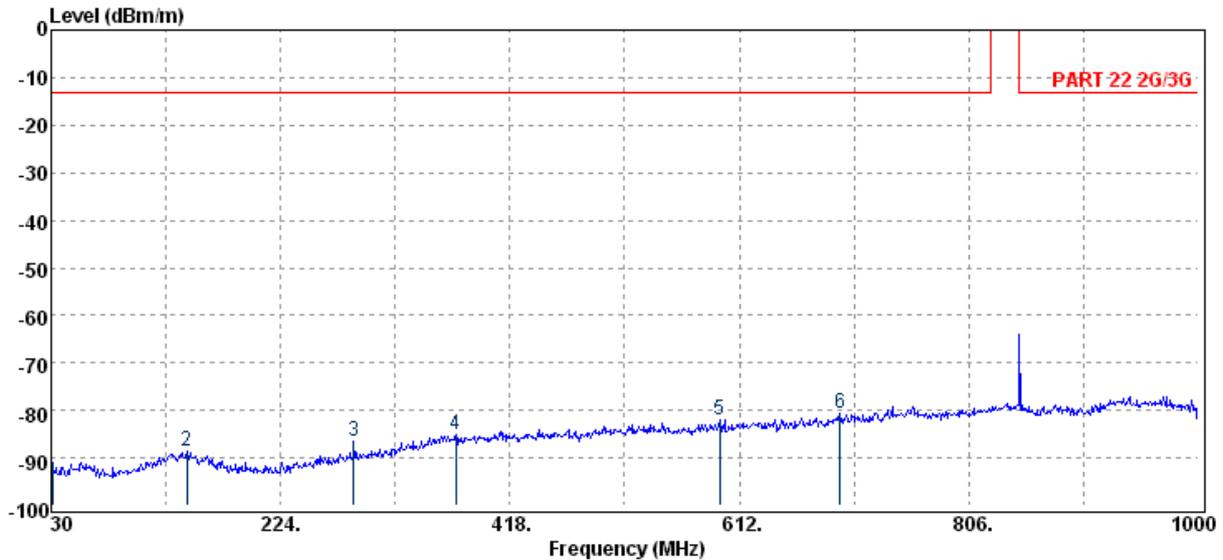


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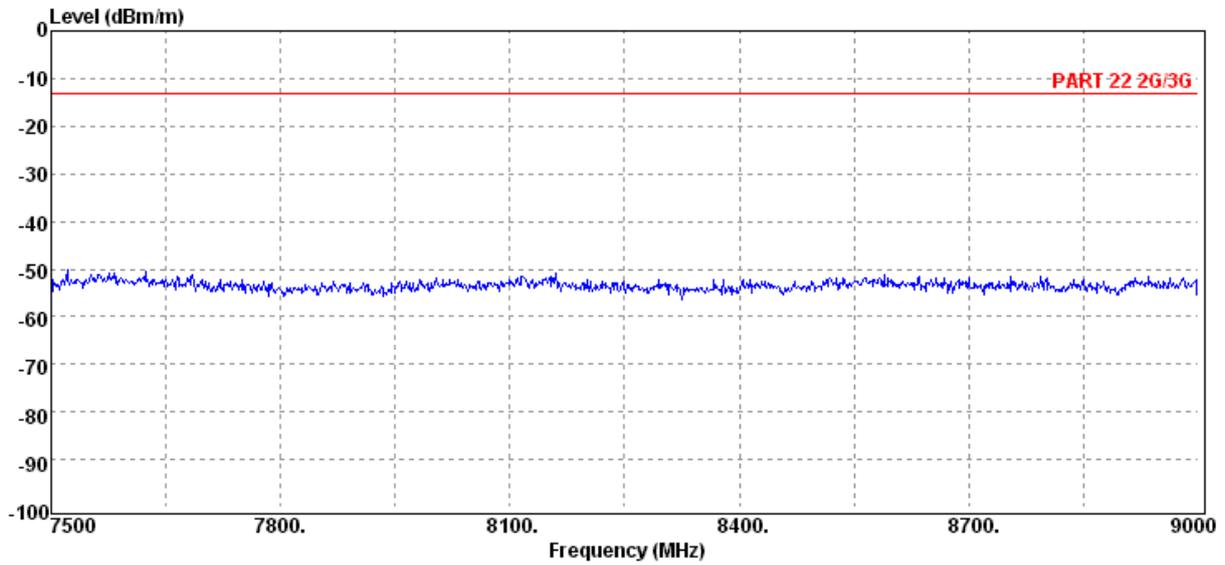
| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :HSUPA B5 | Test Date | :2012-07-06 |
| ARFCN | :CH 4183 | Temp./Humi. | :27 deg_C / 66 RH |
| Fundamental Frequency | :836.6 MHz | Engineer | :Jimmy |
| Operation Mode | :TX | | |
| EUT Pol. | :E2 PLAN | Measurement Antenna Pol. | :HORIZONTAL |



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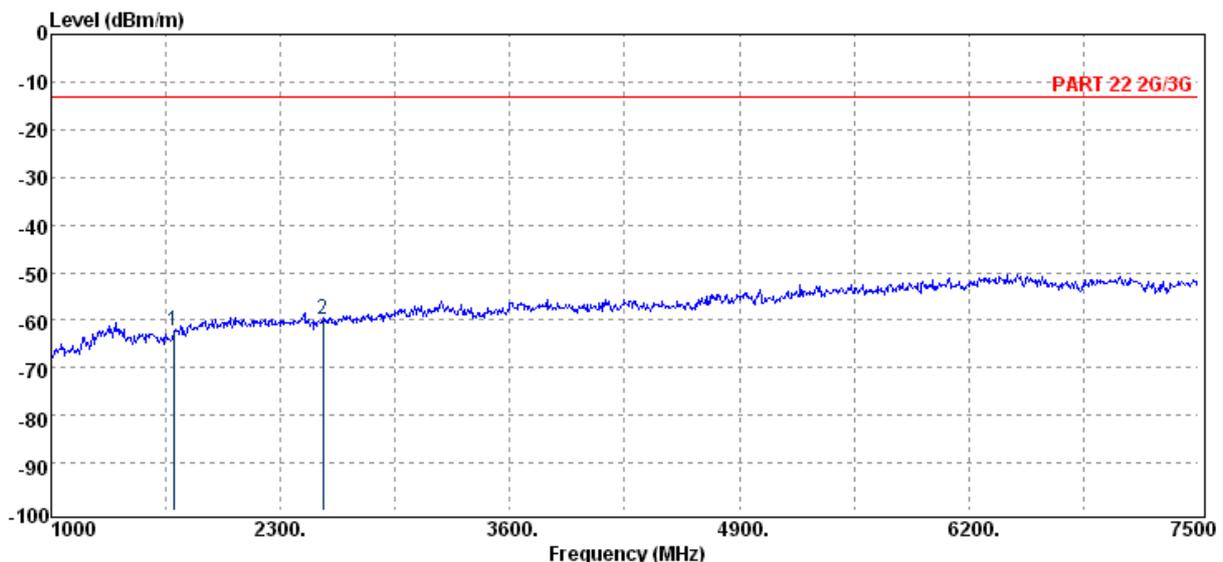
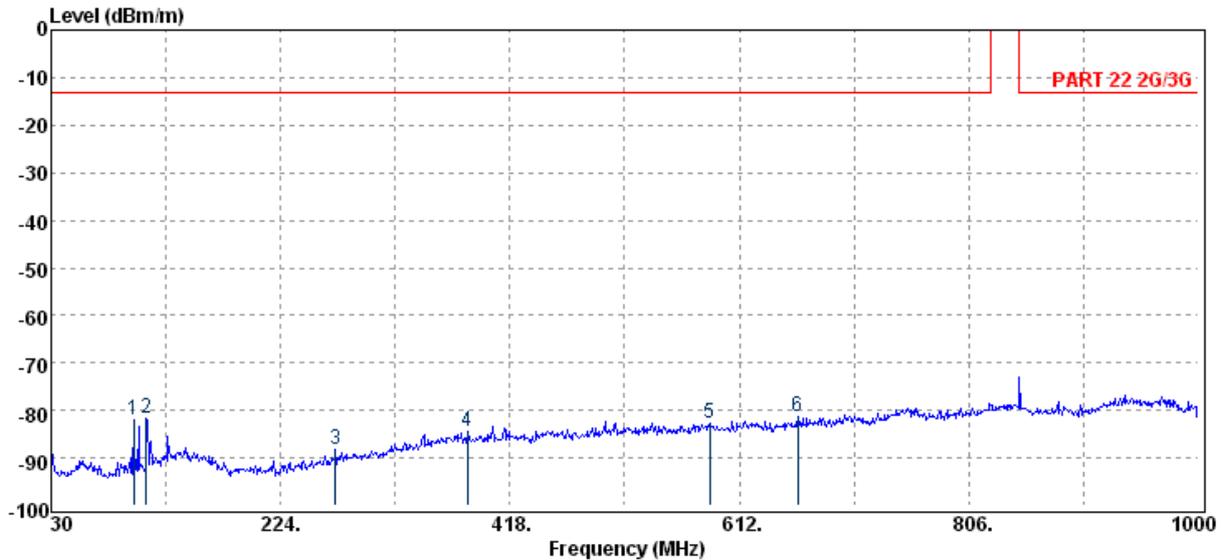


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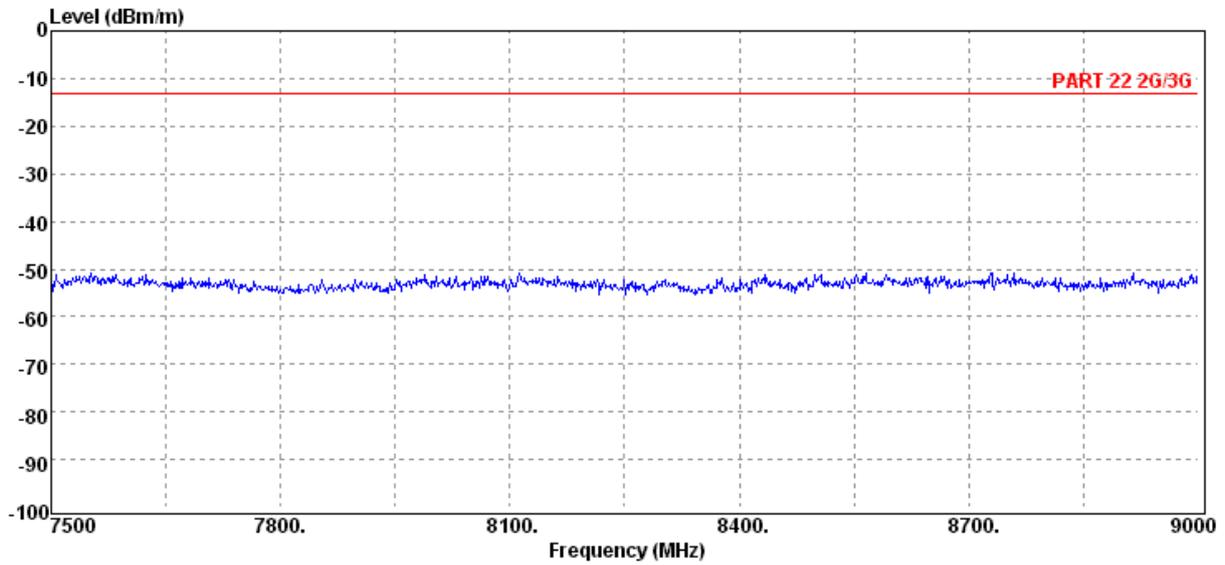
| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :HSUPA B5 | Test Date | :2012-07-06 |
| ARFCN | :CH 4233 | Temp./Humi. | :27 deg_C / 66 RH |
| Fundamental Frequency | :846.6 MHz | Engineer | :Jimmy |
| Operation Mode | :TX | | |
| EUT Pol. | :E2 PLAN | Measurement Antenna Pol. | :VERTICAL |



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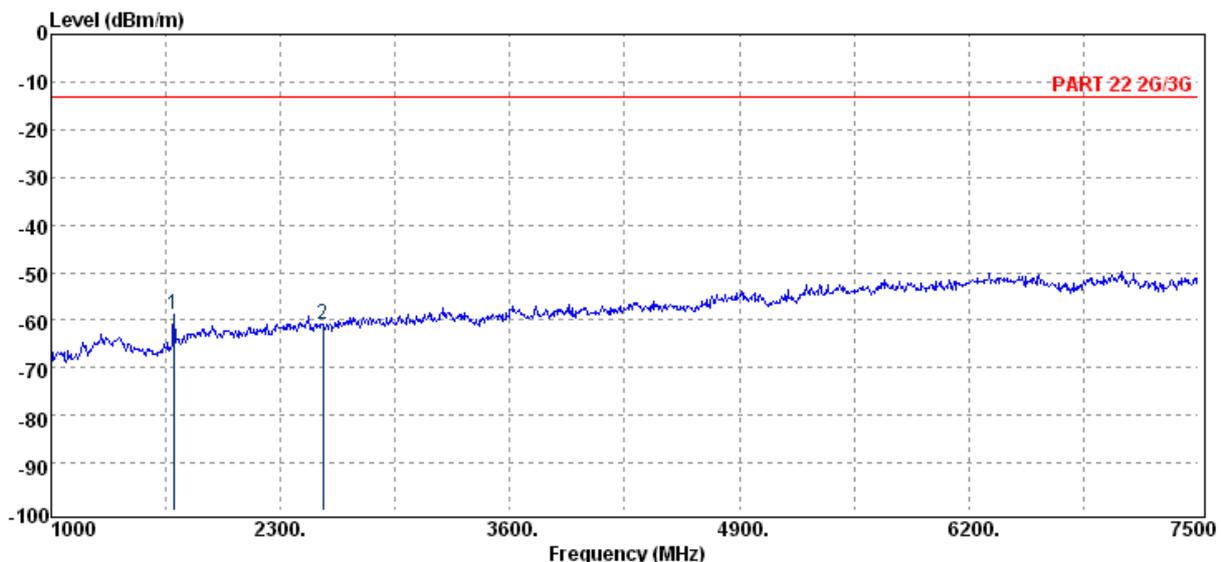
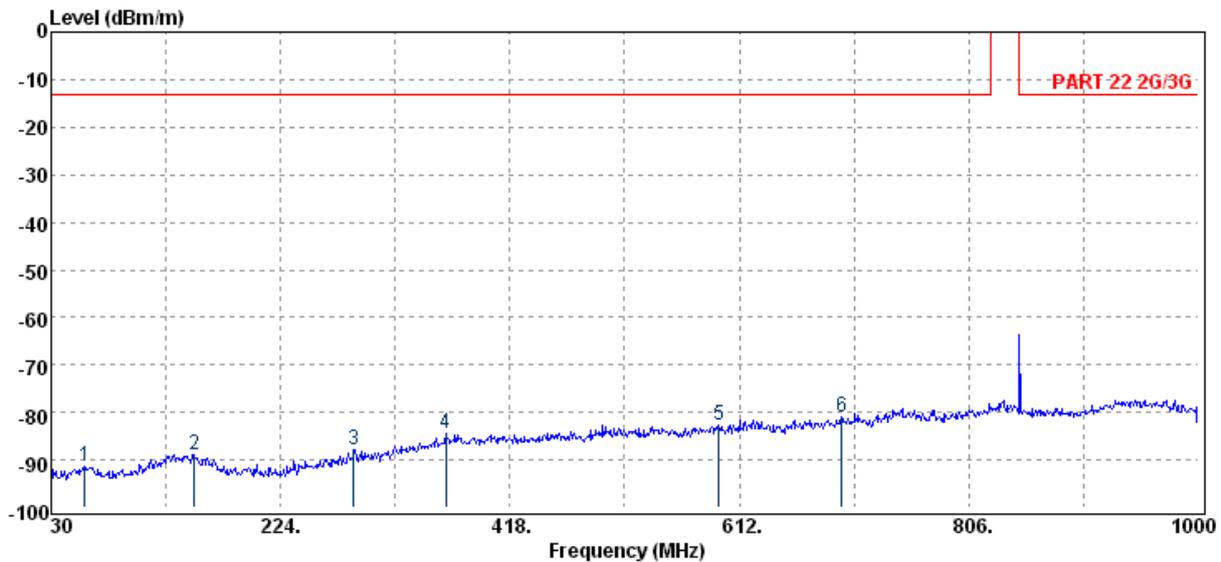


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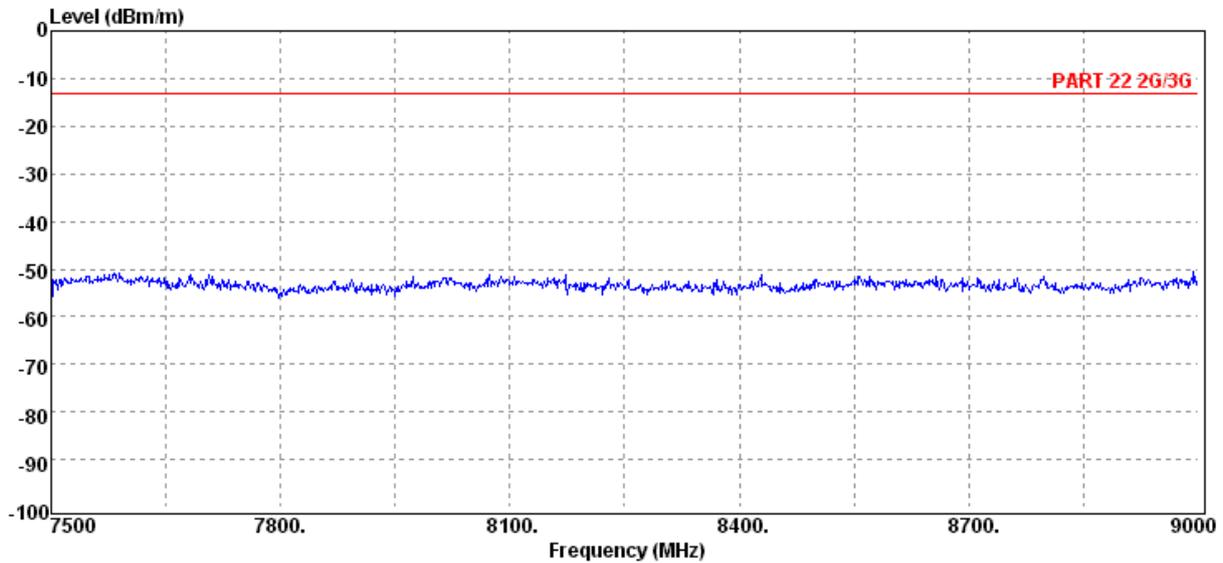
| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :HSUPA B5 | Test Date | :2012-07-06 |
| ARFCN | :CH 4233 | Temp./Humi. | :27 deg_C / 66 RH |
| Fundamental Frequency | :846.6 MHz | Engineer | :Jimmy |
| Operation Mode | :TX | | |
| EUT Pol. | :E2 PLAN | Measurement Antenna Pol. | :HORIZONTAL |



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