

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: iPAQ 900 series

Brand Name: HP

Model Name: HSTNH-I18C

FCC ID: B94HHI18C

Report No.: EH/2008/20008

Issue Date: Feb. 27, 2008

FCC Rule Part: 2, 22H & 24E

Prepared for: Hewlett-Packard Company
3000 Hanover Street, Palo Alto, CA 94304,
USA

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

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VERIFICATION OF COMPLIANCE

Applicant: Hewlett-Packard Company
3000 Hanover Street, Palo Alto, CA 94304, USA

Product Name: iPAQ 900 series

Brand Name: HP

FCC ID: B94HHI18C

Model No.: HSTNH-I18C

Model Difference: N/A

File Number: EH/2008/20007

Date of test: Feb. 01, 2008 ~ Feb. 27, 2008

Date of EUT Received: Feb. 01, 2008

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-B-2002 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 FCC PART 22 subpart H and FCC PART 24 subpart E.

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

| | | | |
|---------------------|---|-------------|---------------|
| Test By: |  | Date | Feb. 27, 2008 |
| | _____ <i>Jazz Huang/Engineer</i> | | |
| Prepared By: |  | Date | Feb. 27, 2008 |
| | _____ <i>Elisa Chen/Asst. Supervisor</i> | | |
| Approved By |  | Date | Feb. 27, 2008 |
| | _____ <i>Vincent Su/Manager</i> | | |

Version

| Version No. | Date |
|-------------|---------------|
| 00 | Feb. 27, 2008 |
| | |

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1. GENERAL PRODUCT INFORMATION

General:

| | | | |
|--------------------------|--|---|--|
| Product Name: | iPAQ 900 series | | |
| Brand Name: | HP | | |
| Model Name: | HSTNH-I18C | | |
| Model Difference: | N/A | | |
| Simple Hands-Free (SHF): | One provide, Model: N/A | | |
| Data Cable (USB): | One provide, Model: N/A | | |
| Power Supply | 3.7 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter | | |
| | Battery: | 1. Model: HSTNH-K18B-S, Supplier: HP | |
| | Adapter: | 1. Model: PSAA05A-050, Supplier: PHIHONG 2. Model: PSAA05E-050, Supplier: PHIHONG 3. Model: PSAA05K-050, Supplier: PHIHONG They are identical except the plug type | |

GSM and WCDMA:

| | | | |
|--|---|-------------------|--------|
| Cellular Phone Standards Frequency Range and Power | GSM/GPRS 850 | 824 MHz– 849MHz | 33 dBm |
| | EDGE 850 | 824 MHz– 849MHz | 27 dBm |
| | GSM/GPRS 1900 | 1850MHz – 1910MHz | 30 dBm |
| | EDGE 1900 | 1850MHz – 1910MHz | 26 dBm |
| | WCDMA/HSDPA Band II | 1850MHz – 1910MHz | 24 dBm |
| | WCDMA/HSDPA Band V | 824 MHz– 849MHz | 24 dBm |
| Type of Emission | GSM: 300KGXW EDGE: 300KG7W WCDMA: 4M20F9W | | |
| IMEI | 356719011003014 | | |

WLAN:

| | |
|-----------------------|---|
| Frequency Range | 2412 – 2462 MHz |
| Channel number | 11 channels |
| Rated Power | 802.11 b: 12.83 dBm (Peak) 802.11 g: 9.68 dBm (Peak) |
| Modulation Technology | DSSS, OFDM |
| Modulation type | CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM |
| Transition Rate: | 802.11 b: 1/2/5.5/11/54 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps |
| Antenna Designation | Chip Antenna, -0.64 dBi |
| Type of Emission | 16M5M7D |

The EUT is compliance with IEEE 802.11 b/g Standard.

Bluetooth:

| | |
|---------------------|---|
| Frequency Range | 2402 – 2480MHz |
| Channel number | 79 channels |
| Rated Power | 2.1dBm (Peak) |
| Modulation type | Frequency Hopping Spread Spectrum (FHSS) (GFSK) ($\pi/4$ -DQPSK) (8PSK) |
| Antenna Designation | Micro-strip Antenna, -3.9dBi |
| Type of Emission | 1M20F1D |

The EUT is compliance with Bluetooth Standard.

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

1.1 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **B94HHI18C** filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

1.2 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on chapter 13 of ANSI C63.4 (2003) and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

The 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-1

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.

1.4 Special Accessories

Not available for this EUT intended for grant.

1.5 Equipment Modifications

Not available for this EUT intended for grant. The components list refers to BOM number "13.Matterhorn_BOM".

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 Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

The EUT is placed on a turn table which is 1.0 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 according to the requirements in Section 8 and 13 of ANSI C63.4-2003.

2.4 Configuration of Tested System

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

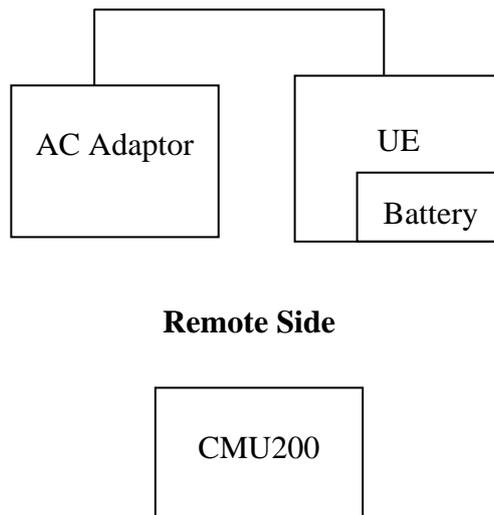


Table 2-1 Equipment Used in Tested System

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

3. SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|--|--|-----------|
| §2.1046(a) §22.913(a) §24.232(a) | RF Power Output | Compliant |
| §2.1046(a) §22.913(a) §24.232(a) | ERP/ EIRP measurement | Compliant |
| §2.1049(h) | 99% Occupied Bandwidth | Compliant |
| §2.1051 §22.917(a) §24.238(a) | Out of Band Emissions at Antenna Terminals and Band Edge | Compliant |
| §2.1053 §22.917(a) §24.238(a) | Field Strength of Spurious Radiation | Compliant |
| §2.1055(a)(1)(b) | Frequency Stability vs. Temperature | Compliant |
| §2.1055(d)(1)(2) | Frequency Stability vs. Voltage | Compliant |
| §15.107;§15.207 | AC Power Line Conducted Emission | Compliant |

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 (E1 mode) and lie down position (E1, E2 mode) for both GSM/GPRS/EDGE and WCDMA/HSDPA Band II and V with all power adaptors, earphone and Data cable. The output power of 850 and 1900 MHz EDGE modes have 3 dB lower than GSM mode's. Therefore the worst-case of E2 position for GSM 850 band, H position for GSM 1900 band were reported and E1 position for WCDMA Band V and H position for WCDMA Band II were reported with for worst case power adaptor: PSAA05A-050.

5. RF POWER OUTPUT MEASUREMENT

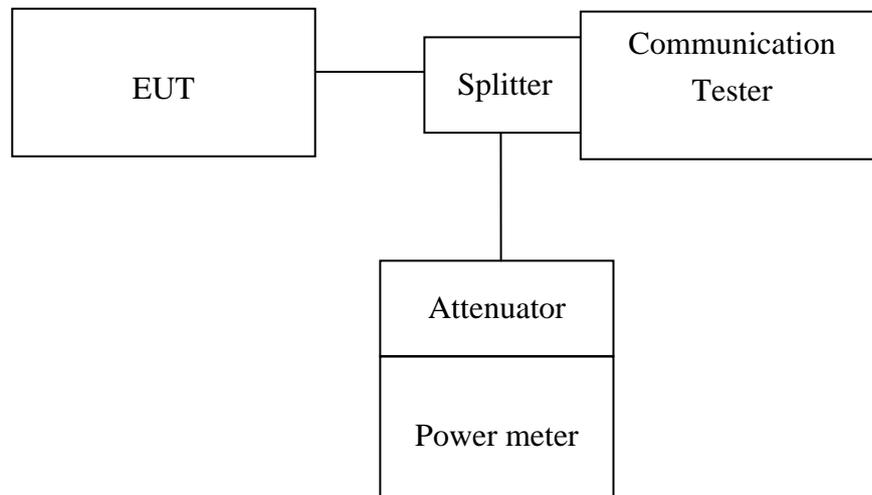
5.1 Standard Applicable

According to FCC §2.1046.

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

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

5.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

5.3 Measurement Procedure

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

5.4 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|--------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/27/2007 | 04/27/2008 |
| Spectrum Analyzer | Agilent | E7405A | US41160416 | 07/04/2007 | 07/03/2008 |
| Spectrum Analyzer | R&S | FSP 40 | 100034 | 11/09/2007 | 11/08/2008 |
| Communication Test | R&S | SMU200 | N/A | N/A | N/A |
| Power Sensor | Anritsu | MA2490A | 31431 | 07/07/2007 | 07/06/2008 |
| Power Meter | Anritsu | ML2487A | 6K00002070 | 07/07/2007 | 07/06/2008 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 10/14/2007 | 10/13/2008 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA | N/A | N/A | N/A |
| Attenuator | Mini-Circuit | BW-S10W5 | N/A | 09/23/2007 | 09/22/2008 |
| Attenuator | Mini-Circuit | BW-S6W5 | N/A | 09/23/2007 | 09/22/2008 |
| Splitter | Agilent | 11636B | 51728 | 09/23/2007 | 09/22/2008 |
| DC Power Supply | Agilent | 6038A | 2929A-07548 | 06/27/2007 | 06/26/2008 |

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5.5 Measurement Result

| EUT Mode | Frequency (MHz) | CH | Power meter Reading (dBm) | Path Loss (dB) | Peak Power (dBm) |
|----------|-----------------|-----|---------------------------|----------------|------------------|
| GSM 850 | 824.20 | 128 | 13.6 | 17.80 | 31.40 |
| | 836.60 | 190 | 13.8 | 17.80 | 31.60 |
| | 848.80 | 251 | 14.0 | 17.80 | 31.80 |

| EUT Mode | Frequency (MHz) | CH | Power Meter Reading (dBm) | Path Loss (dB) | Peak Power (dBm) |
|----------|-----------------|-----|---------------------------|----------------|------------------|
| PCS 1900 | 1850.20 | 512 | 10.95 | 17.80 | 28.75 |
| | 1880.00 | 661 | 10.80 | 17.80 | 28.60 |
| | 1909.80 | 810 | 10.60 | 17.80 | 28.40 |

| EUT Mode | Frequency (MHz) | CH | Power meter Reading (dBm) | Path Loss (dB) | Peak Power (dBm) |
|----------|-----------------|-----|---------------------------|----------------|------------------|
| EDGE 850 | 824.20 | 128 | 8.35 | 17.80 | 26.15 |
| | 836.60 | 190 | 8.52 | 17.80 | 26.32 |
| | 848.80 | 251 | 8.61 | 17.80 | 26.41 |

| EUT Mode | Frequency (MHz) | CH | Power Meter Reading (dBm) | Path Loss (dB) | Peak Power (dBm) |
|-----------|-----------------|-----|---------------------------|----------------|------------------|
| EDGE 1900 | 1850.20 | 512 | 6.71 | 17.80 | 24.51 |
| | 1880.00 | 661 | 6.73 | 17.80 | 24.53 |
| | 1909.80 | 810 | 7.29 | 17.80 | 25.09 |

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| EUT Mode | Frequency (MHz) | CH | Power meter Reading (dBm) | Path Loss (dB) | Peak Power (dBm) |
|--------------|-----------------|------|---------------------------|----------------|------------------|
| WCDMA BAND V | 826.40 | 4132 | 4.84 | 17.80 | 22.64 |
| | 836.00 | 4180 | 4.56 | 17.80 | 22.36 |
| | 846.60 | 4233 | 4.51 | 17.80 | 22.31 |

| EUT Mode | Frequency (MHz) | CH | Power Meter Reading (dBm) | Path Loss (dB) | Peak Power (dBm) |
|---------------|-----------------|------|---------------------------|----------------|------------------|
| WCDMA BAND II | 1852.40 | 9262 | 4.20 | 17.80 | 22.00 |
| | 1880.00 | 9400 | 4.13 | 17.80 | 21.93 |
| | 1907.60 | 9538 | 3.47 | 17.80 | 21.27 |

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6. ERP, EIRP MEASUREMENT

6.1 Standard Applicable

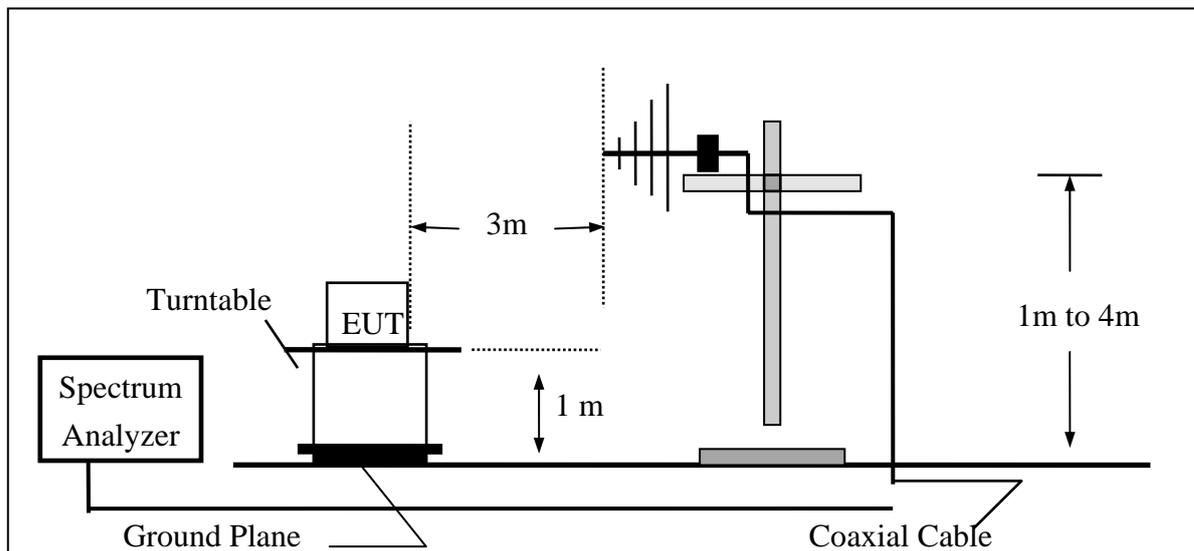
According to FCC §2.1046

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

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

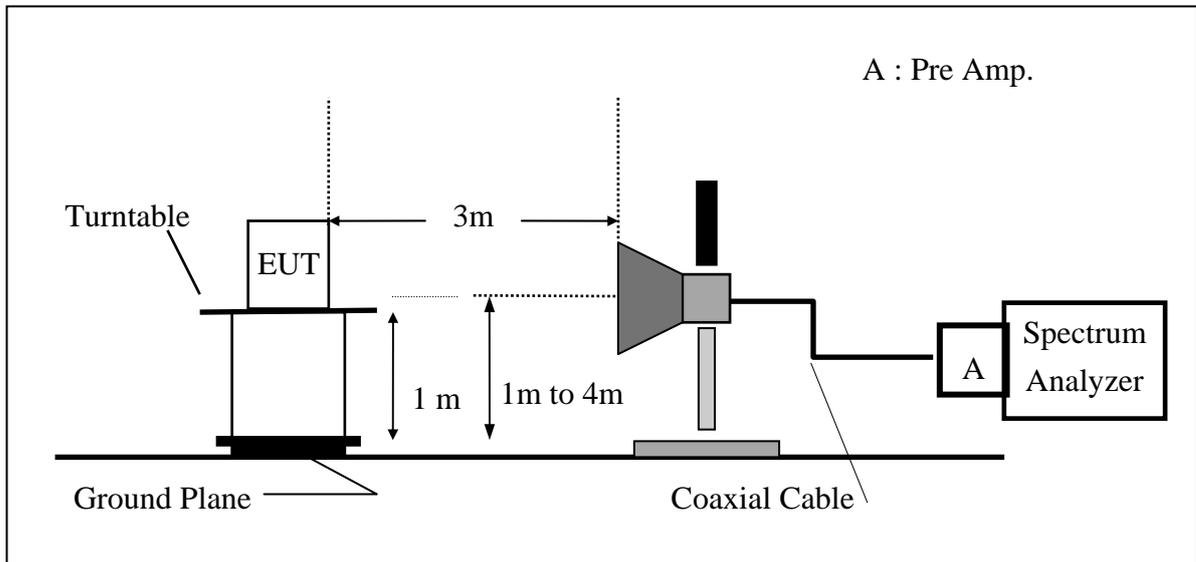
6.2 Test SET-UP (Block Diagram of Configuration)

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

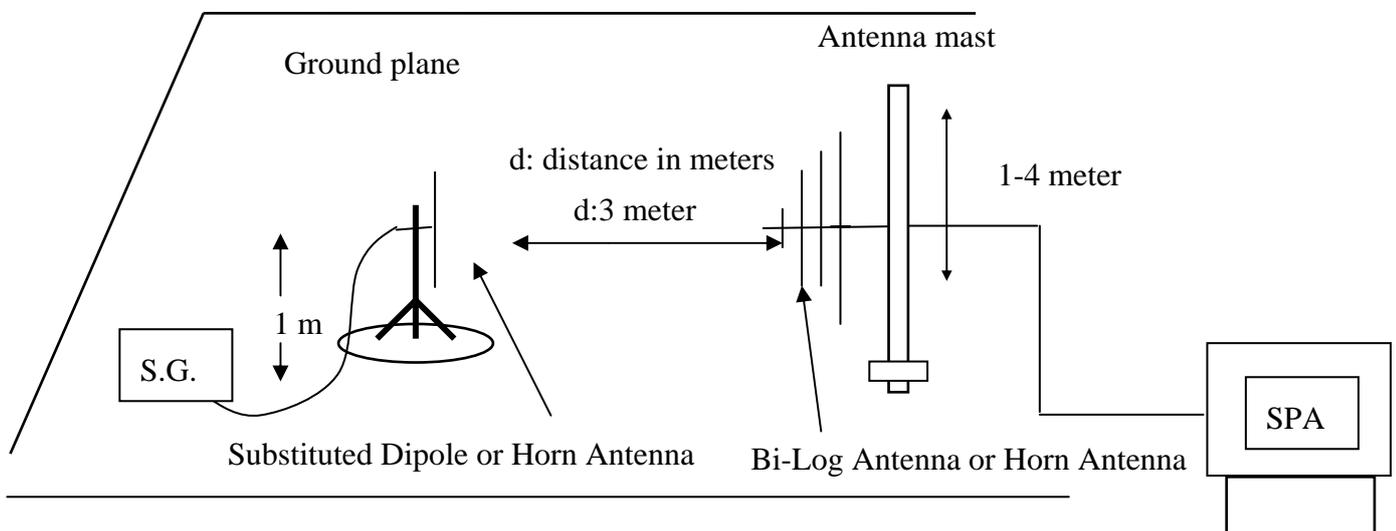


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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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6.3 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 –848.80.8MHz 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:

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

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

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

6.4 Measurement Equipment Used:

| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
|--------------------|--------------|----------------------|---------------|------------|------------|
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/27/2007 | 04/26/2008 |
| Spectrum Analyzer | Agilent | E7405A | US41160416 | 07/04/2007 | 07/03/2008 |
| Spectrum Analyzer | R&S | FSP 40 | 100034 | 11/09/2007 | 11/10/2008 |
| Communication Test | R&S | SMU200 | N/A | N/A | N/A |
| Bi-log Antenna | SCHWAZBECK | VULB9160 | 3224 | 11/14/2007 | 11/13/2008 |
| Horn antenna | SCHWAZBECK | BBHA 9120D | 309/320 | 08/16/2007 | 08/15/2008 |
| Pre-Amplifier | HP | 8447D | 2944A09469 | 07/19/2007 | 07/18/2008 |
| Pre-Amplifier | HP | 8494B | 3008A00578 | 02/26/2008 | 02/25/2009 |
| Signal Generator | R&S | SMR40 | 100210 | 02/09/2008 | 02/10/2009 |
| Turn Table | HD | DT420 | N/A | N.C.R | N.C.R |
| Antenna Tower | HD | MA240-N | 240/657 | N.C.R | N.C.R |
| Controller | HD | HD100 | N/A | N.C.R | N.C.R |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA-10M | 10m | 10/09/2007 | 10/08/2008 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA-3M | 3m | 10/09/2007 | 10/08/2008 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA-0.5M | 0.5m | 10/09/2007 | 10/08/2008 |
| Site NSA | SGS | 966 chamber | N/A | 11/17/2007 | 11/16/2008 |
| Attenuator | Mini-Circuit | BW-S10W5 | N/A | 09/23/2007 | 09/22/2008 |
| Dipole Antenna | SCHWAZBECK | VHAP | 908/909 | 06/09/2007 | 06/10/2008 |
| Dipole Antenna | SCHWAZBECK | UHAP | 891/892 | 06/09/2007 | 06/10/2008 |
| Horn antenna | SCHWAZBECK | BBHA 9120D | N/A | 08/16/2007 | 08/15/2008 |

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6.5 Measurement Result

| EUT Mode | Frequency (MHz) | CH | EUT Pol. | Antenna Pol. | SPA Reading (dBuV) | S.G. Output (dBm) | Antenna Gain (dBd) | Cable Loss (dB) | ERP (dBm) | Limit (dBm) |
|----------|-----------------|-----|----------|--------------|--------------------|-------------------|--------------------|-----------------|-----------|-------------|
| GSM 850 | 824.20 | 128 | H | V | 115.89 | 28.57 | -7.87 | 3.64 | 17.05 | 38.45 |
| | | | | H | 129.26 | 41.60 | -7.87 | 3.64 | 30.09 | 38.45 |
| | | | E1 | V | 122.25 | 34.93 | -7.87 | 3.64 | 23.41 | 38.45 |
| | | | | H | 128.16 | 40.50 | -7.87 | 3.64 | 28.99 | 38.45 |
| | | | E2 | V | 130.00 | 42.68 | -7.87 | 3.64 | 31.16 | 38.45 |
| | | | | H | 122.29 | 34.63 | -7.87 | 3.64 | 23.12 | 38.45 |
| | 836.60 | 190 | H | V | 117.52 | 30.49 | -7.88 | 3.70 | 18.92 | 38.45 |
| | | | | H | 129.38 | 42.04 | -7.88 | 3.70 | 30.47 | 38.45 |
| | | | E1 | V | 123.40 | 36.37 | -7.88 | 3.70 | 24.80 | 38.45 |
| | | | | H | 128.94 | 41.60 | -7.88 | 3.70 | 30.03 | 38.45 |
| | | | E2 | V | 130.47 | 43.44 | -7.88 | 3.70 | 31.87 | 38.45 |
| | | | | H | 122.90 | 35.56 | -7.88 | 3.70 | 23.99 | 38.45 |
| | 848.80 | 251 | H | V | 117.51 | 30.77 | -7.88 | 3.75 | 19.14 | 38.45 |
| | | | | H | 129.49 | 42.47 | -7.88 | 3.75 | 30.84 | 38.45 |
| | | | E1 | V | 124.10 | 37.36 | -7.88 | 3.75 | 25.73 | 38.45 |
| | | | | H | 130.03 | 43.01 | -7.88 | 3.75 | 31.38 | 38.45 |
| | | | E2 | V | 130.11 | 43.37 | -7.88 | 3.75 | 31.74 | 38.45 |
| | | | | H | 122.49 | 35.47 | -7.88 | 3.75 | 23.84 | 38.45 |

Remark :

- (1) The RBW,VBW of SPA for frequency
 Below 1GHz was RBW=100 KHz, VBW=300KHz,
 Above 1GHz was RBW= 1MHz , VBW= 3MHz

6.6 Measurement Result

| EUT Mode | Frequency (MHz) | CH | EUT Pol. | Antenna Pol. | SPA Reading (dBuV) | S.G. Output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | EIRP (dBm) | Limit (dBm) |
|----------|-----------------|-----|----------|--------------|--------------------|-------------------|--------------------|-----------------|------------|-------------|
| PCS 1900 | 1850.20 | 512 | H | V | 120.66 | 13.70 | 9.90 | 5.41 | 18.19 | 33.00 |
| | | | | H | 130.55 | 23.66 | 9.90 | 5.41 | 28.15 | 33.00 |
| | | | E1 | V | 126.48 | 19.52 | 9.90 | 5.41 | 24.01 | 33.00 |
| | | | | H | 127.27 | 20.38 | 9.90 | 5.41 | 24.87 | 33.00 |
| | | | E2 | V | 129.69 | 22.73 | 9.90 | 5.41 | 27.22 | 33.00 |
| | | | | H | 124.52 | 17.63 | 9.90 | 5.84 | 21.69 | 33.00 |
| | 1880.00 | 661 | H | V | 120.43 | 13.48 | 9.99 | 5.46 | 18.01 | 33.00 |
| | | | | H | 129.42 | 22.55 | 9.99 | 5.46 | 27.08 | 33.00 |
| | | | E1 | V | 125.14 | 18.19 | 9.99 | 5.46 | 22.72 | 33.00 |
| | | | | H | 126.04 | 19.17 | 9.99 | 5.46 | 23.70 | 33.00 |
| | | | E2 | V | 128.78 | 21.83 | 9.99 | 5.46 | 26.36 | 33.00 |
| | | | | H | 123.60 | 16.73 | 9.99 | 5.46 | 21.26 | 33.00 |
| | 1909.80 | 810 | H | V | 122.71 | 15.77 | 10.08 | 5.51 | 20.34 | 33.00 |
| | | | | H | 128.67 | 21.82 | 10.08 | 5.51 | 26.38 | 33.00 |
| | | | E1 | V | 124.80 | 17.86 | 10.08 | 5.51 | 22.43 | 33.00 |
| | | | | H | 125.38 | 18.53 | 10.08 | 5.51 | 23.09 | 33.00 |
| | | | E2 | V | 128.42 | 21.48 | 10.08 | 5.51 | 26.05 | 33.00 |
| | | | | H | 123.03 | 16.18 | 10.08 | 5.51 | 20.74 | 33.00 |

Remark :

- (1) The RBW,VBW of SPA for frequency
 Below 1GHz was RBW=100 KHz, VBW=300KHz,
 Above 1GHz was RBW= 1MHz , VBW= 3MHz

6.7 Measurement Result

| EUT Mode | Frequency (MHz) | CH | EUT Pol. | Antenna Pol. | SPA Reading (dBuV) | S.G. Output (dBm) | Antenna Gain (dBd) | Cable Loss (dB) | ERP (dBm) | Limit (dBm) |
|----------|-----------------|-----|----------|--------------|--------------------|-------------------|--------------------|-----------------|-----------|-------------|
| EDGE 850 | 824.20 | 128 | H | V | 111.95 | 24.63 | -7.87 | 3.64 | 13.11 | 38.45 |
| | | | | H | 122.93 | 35.27 | -7.87 | 3.64 | 23.76 | 38.45 |
| | | | E1 | V | 124.65 | 37.33 | -7.87 | 3.64 | 25.81 | 38.45 |
| | | | | H | 112.09 | 24.43 | -7.87 | 3.64 | 12.92 | 38.45 |
| | | | E2 | V | 114.91 | 27.59 | -7.87 | 3.64 | 16.07 | 38.45 |
| | | | | H | 123.81 | 36.15 | -7.87 | 3.64 | 24.64 | 38.45 |
| | 836.60 | 190 | H | V | 112.44 | 25.41 | -7.88 | 3.70 | 13.84 | 38.45 |
| | | | | H | 123.84 | 36.50 | -7.88 | 3.70 | 24.93 | 38.45 |
| | | | E1 | V | 124.80 | 37.77 | -7.88 | 3.70 | 26.20 | 38.45 |
| | | | | H | 111.77 | 24.43 | -7.88 | 3.70 | 12.86 | 38.45 |
| | | | E2 | V | 114.56 | 27.53 | -7.88 | 3.70 | 15.96 | 38.45 |
| | | | | H | 124.07 | 36.73 | -7.88 | 3.70 | 25.16 | 38.45 |
| | 848.80 | 251 | H | V | 111.72 | 24.98 | -7.88 | 3.75 | 13.35 | 38.45 |
| | | | | H | 123.65 | 36.63 | -7.88 | 3.75 | 25.00 | 38.45 |
| | | | E1 | V | 124.20 | 37.46 | -7.88 | 3.75 | 25.83 | 38.45 |
| | | | | H | 112.96 | 25.94 | -7.88 | 3.75 | 14.31 | 38.45 |
| | | | E2 | V | 113.75 | 27.01 | -7.88 | 3.75 | 15.38 | 38.45 |
| | | | | H | 123.44 | 36.42 | -7.88 | 3.75 | 24.79 | 38.45 |

Remark :

- (1) The RBW,VBW of SPA for frequency
 Below 1GHz was RBW=100 KHz, VBW=300KHz,
 Above 1GHz was RBW= 1MHz , VBW= 3MHz

6.8 Measurement Result

| EUT Mode | Frequency (MHz) | CH | EUT Pol. | Antenna Pol. | SPA Reading (dBuV) | S.G. Output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | EIRP (dBm) | Limit (dBm) |
|-----------|-----------------|-----|----------|--------------|--------------------|-------------------|--------------------|-----------------|------------|-------------|
| EDGE 1900 | 1850.20 | 512 | H | V | 111.61 | 4.65 | 9.90 | 5.41 | 9.14 | 33.00 |
| | | | | H | 126.16 | 19.27 | 9.90 | 5.41 | 23.76 | 33.00 |
| | | | E1 | V | 124.25 | 17.29 | 9.90 | 5.41 | 21.78 | 33.00 |
| | | | | H | 124.34 | 17.45 | 9.90 | 5.41 | 21.94 | 33.00 |
| | | | E2 | V | 126.05 | 19.09 | 9.90 | 5.41 | 23.58 | 33.00 |
| | | | | H | 118.56 | 11.67 | 9.90 | 5.84 | 15.73 | 33.00 |
| | 1880.00 | 661 | H | V | 110.51 | 3.56 | 9.99 | 5.46 | 8.09 | 33.00 |
| | | | | H | 126.28 | 19.41 | 9.99 | 5.46 | 23.94 | 33.00 |
| | | | E1 | V | 122.93 | 15.98 | 9.99 | 5.46 | 20.51 | 33.00 |
| | | | | H | 123.69 | 16.82 | 9.99 | 5.46 | 21.35 | 33.00 |
| | | | E2 | V | 125.44 | 18.49 | 9.99 | 5.46 | 23.02 | 33.00 |
| | | | | H | 117.90 | 11.03 | 9.99 | 5.46 | 15.56 | 33.00 |
| | 1909.80 | 810 | H | V | 111.15 | 4.21 | 10.08 | 5.51 | 8.78 | 33.00 |
| | | | | H | 126.19 | 19.34 | 10.08 | 5.51 | 23.90 | 33.00 |
| | | | E1 | V | 122.45 | 15.51 | 10.08 | 5.51 | 20.08 | 33.00 |
| | | | | H | 123.64 | 16.79 | 10.08 | 5.51 | 21.35 | 33.00 |
| | | | E2 | V | 125.49 | 18.55 | 10.08 | 5.51 | 23.12 | 33.00 |
| | | | | H | 117.94 | 11.09 | 10.08 | 5.51 | 15.65 | 33.00 |

Remark :

- (1) The RBW,VBW of SPA for frequency
 Below 1GHz was RBW=100 KHz, VBW=300KHz,
 Above 1GHz was RBW= 1MHz , VBW= 3MHz

6.9 Measurement Result

| EUT Mode | Frequency (MHz) | CH | EUT Pol. | Antenna Pol. | SPA Reading (dBuV) | S.G. Output (dBm) | Antenna Gain (dBi) | Cable Loss (dB) | EIRP (dBm) | Limit (dBm) |
|---------------|-----------------|------|----------|--------------|--------------------|-------------------|--------------------|-----------------|------------|-------------|
| WCDMA BAND II | 1852.40 | 9262 | H | V | 114.34 | 7.38 | 9.90 | 5.41 | 11.88 | 33.00 |
| | | | | H | 117.79 | 10.90 | 9.90 | 5.41 | 15.40 | 33.00 |
| | | | E1 | V | 113.45 | 6.49 | 9.90 | 5.41 | 10.99 | 33.00 |
| | | | | H | 114.69 | 7.80 | 9.90 | 5.41 | 12.30 | 33.00 |
| | | | E2 | V | 115.91 | 8.95 | 9.90 | 5.41 | 13.45 | 33.00 |
| | | | | H | 110.68 | 3.79 | 9.90 | 5.84 | 7.85 | 33.00 |
| | 1880.00 | 9400 | H | V | 103.72 | -3.23 | 9.99 | 5.46 | 1.30 | 33.00 |
| | | | | H | 116.70 | 9.83 | 9.99 | 5.46 | 14.36 | 33.00 |
| | | | E1 | V | 111.82 | 4.87 | 9.99 | 5.46 | 9.40 | 33.00 |
| | | | | H | 112.76 | 5.89 | 9.99 | 5.46 | 10.42 | 33.00 |
| | | | E2 | V | 115.19 | 8.24 | 9.99 | 5.46 | 12.77 | 33.00 |
| | | | | H | 110.39 | 3.52 | 9.99 | 5.46 | 8.05 | 33.00 |
| | 1907.60 | 9538 | H | V | 111.55 | 4.61 | 10.07 | 5.51 | 9.18 | 33.00 |
| | | | | H | 115.29 | 8.43 | 10.07 | 5.51 | 13.00 | 33.00 |
| | | | E1 | V | 111.09 | 4.15 | 10.07 | 5.51 | 8.72 | 33.00 |
| | | | | H | 112.99 | 6.13 | 10.07 | 5.51 | 10.70 | 33.00 |
| | | | E2 | V | 114.77 | 7.83 | 10.07 | 5.51 | 12.40 | 33.00 |
| | | | | H | 108.35 | 1.49 | 10.07 | 5.51 | 6.06 | 33.00 |

Remark :

- (1) The RBW,VBW of SPA for frequency
Below 1GHz was RBW=100 KHz, VBW=300KHz,
Above 1GHz was RBW= 1MHz , VBW= 3MHz

6.10 Measurement Result

| EUT Mode | Frequency (MHz) | CH | EUT Pol. | Antenna Pol. | SPA Reading (dBuV) | S.G. Output (dBm) | Antenna Gain (dBd) | Cable Loss (dB) | ERP (dBm) | Limit (dBm) |
|--------------|-----------------|-----|----------|--------------|--------------------|-------------------|--------------------|-----------------|-----------|-------------|
| WCDMA BAND V | 826.40 | 128 | H | V | 97.13 | 9.86 | -7.88 | 3.65 | -1.67 | 38.45 |
| | | | | H | 111.03 | 23.43 | -7.88 | 3.65 | 11.90 | 38.45 |
| | | | E1 | V | 111.42 | 24.15 | -7.88 | 3.65 | 12.62 | 38.45 |
| | | | | H | 102.92 | 15.32 | -7.88 | 3.65 | 3.79 | 38.45 |
| | | | E2 | V | 101.04 | 13.77 | -7.88 | 3.65 | 2.24 | 38.45 |
| | | | | H | 110.57 | 22.97 | -7.88 | 3.65 | 11.44 | 38.45 |
| | 836.00 | 190 | H | V | 99.24 | 12.20 | -7.88 | 3.69 | 0.63 | 38.45 |
| | | | | H | 114.25 | 26.90 | -7.88 | 3.69 | 15.33 | 38.45 |
| | | | E1 | V | 114.92 | 27.88 | -7.88 | 3.69 | 16.31 | 38.45 |
| | | | | H | 107.15 | 19.80 | -7.88 | 3.69 | 8.23 | 38.45 |
| | | | E2 | V | 104.38 | 17.34 | -7.88 | 3.69 | 5.77 | 38.45 |
| | | | | H | 113.93 | 26.58 | -7.88 | 3.69 | 15.01 | 38.45 |
| | 846.60 | 251 | H | V | 97.58 | 10.79 | -7.88 | 3.74 | -0.83 | 38.45 |
| | | | | H | 112.60 | 25.52 | -7.88 | 3.74 | 13.90 | 38.45 |
| | | | E1 | V | 112.98 | 26.19 | -7.88 | 3.74 | 14.57 | 38.45 |
| | | | | H | 107.29 | 20.21 | -7.88 | 3.74 | 8.59 | 38.45 |
| | | | E2 | V | 96.98 | 10.19 | -7.88 | 3.74 | -1.43 | 38.45 |
| | | | | H | 111.84 | 24.76 | -7.88 | 3.74 | 13.14 | 38.45 |

Remark :

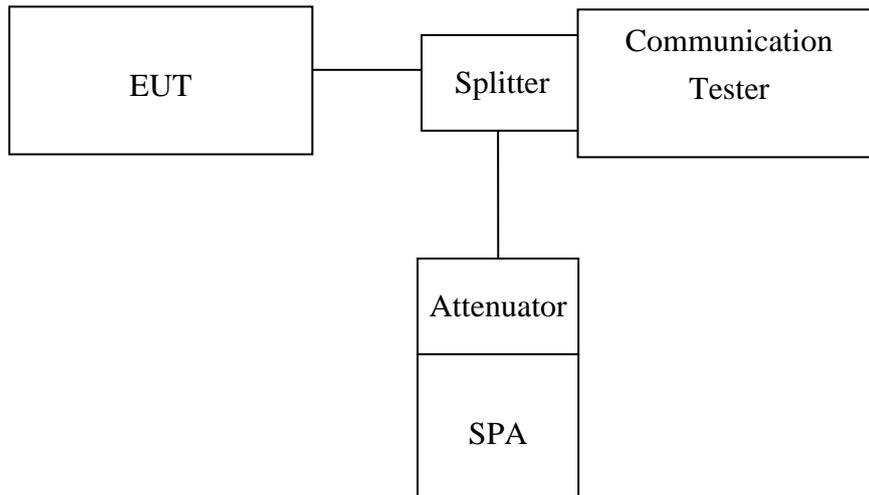
- (1) The RBW,VBW of SPA for frequency
 Below 1GHz was RBW=100 KHz, VBW=300KHz,
 Above 1GHz was RBW= 1MHz , VBW= 3MHz

7. 99% OCCUPIED BANDWIDTH MEASUREMENT

7.1 Standard Applicable

According to §FCC 2.1049.

7.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

7.3 Measurement Procedure

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW (10/30KHz) was set to about 1% of emission BW, VBW= 3 times RBW(30/100KHz), -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.

7.4 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|--------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/27/2007 | 04/26/2008 |
| Spectrum Analyzer | Agilent | E7405A | US41160416 | 07/04/2007 | 07/03/2008 |
| Power Sensor | Anritsu | MA2490A | 31431 | 07/07/2007 | 07/06/2008 |
| Power Meter | Anritsu | ML2487A | 6K00002070 | 07/07/2007 | 07/06/2008 |
| Communication Test | R&S | SMU200 | N/A | N/A | N/A |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 04/26/2007 | 04/25/2008 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA | N/A | N/A | N/A |
| Attenuator | Mini-Circuit | BW-S10W5 | N/A | 07/05/2007 | 07/04/2008 |
| Attenuator | Mini-Circuit | BW-S6W5 | N/A | 07/05/2007 | 07/04/2008 |
| Splitter | Agilent | 11636B | 51728 | 09/23/2007 | 09/22/2008 |
| Signal Generator | R&S | SMR40 | 100210 | 11/09/2007 | 11/10/2008 |
| DC Power Supply | Agilent | 6038A | 2929A-07548 | 01/06/2008 | 01/05/2009 |

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7.5 Measurement Result:.

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|----------|-----------------|-----|---------------------|
| GSM 850 | 824.20 | 128 | 0.2430 |
| | 836.60 | 190 | 0.2450 |
| | 848.80 | 251 | 0.2440 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|----------|-----------------|-----|---------------------|
| PCS 1900 | 1850.20 | 512 | 0.2450 |
| | 1880.00 | 661 | 0.2450 |
| | 1909.80 | 810 | 0.2450 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|----------|-----------------|-----|---------------------|
| EDGE 850 | 824.20 | 128 | 0.2570 |
| | 836.60 | 190 | 0.2430 |
| | 848.80 | 251 | 0.2430 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|-----------|-----------------|-----|---------------------|
| EDGE 1900 | 1850.20 | 512 | 0.2450 |
| | 1880.00 | 661 | 0.2450 |
| | 1909.80 | 810 | 0.2440 |

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| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|---------------|-----------------|------|---------------------|
| WCDMA BAND II | 1852.40 | 9262 | 4.1500 |
| | 1880.00 | 9400 | 4.1500 |
| | 1907.60 | 9538 | 4.1700 |

| EUT Mode | Frequency (MHz) | CH | 99% Bandwidth (MHz) |
|--------------|-----------------|------|---------------------|
| WCDMA BAND V | 826.40 | 4132 | 4.1600 |
| | 836.00 | 4180 | 4.1500 |
| | 846.60 | 4233 | 4.1600 |

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Figure 7-1: GSM Channel Low

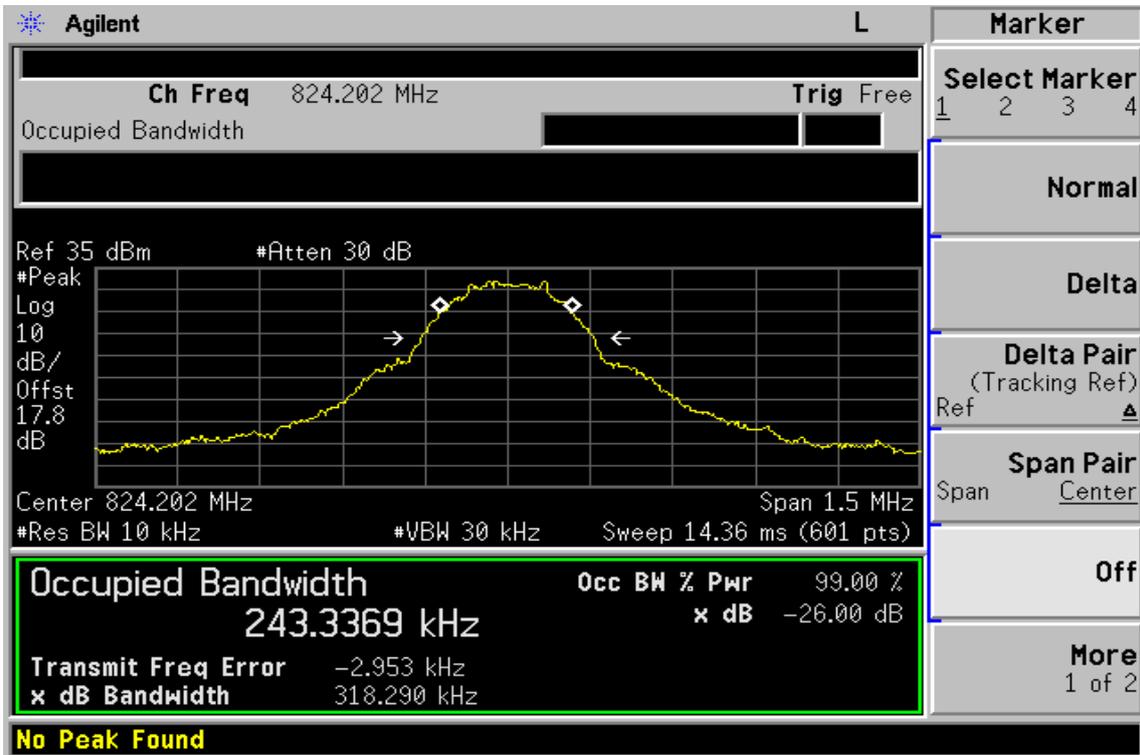
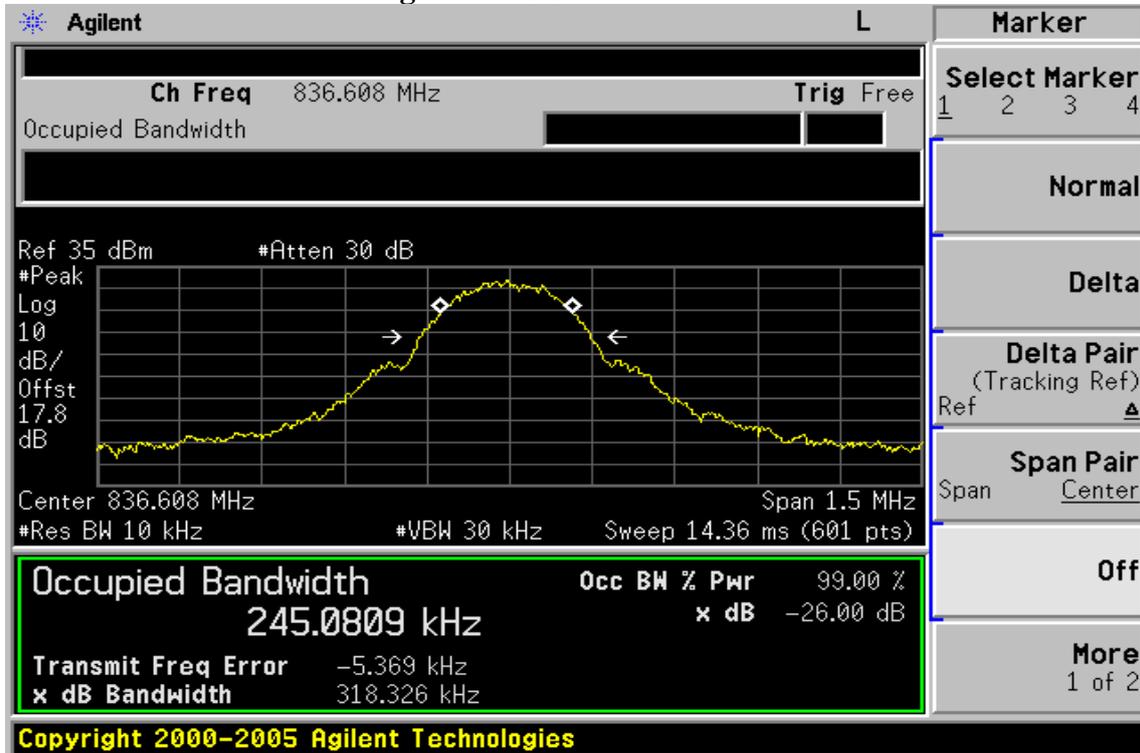


Figure 7-2 GSM Channel Mid



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Figure 7-3: GSM Channel High

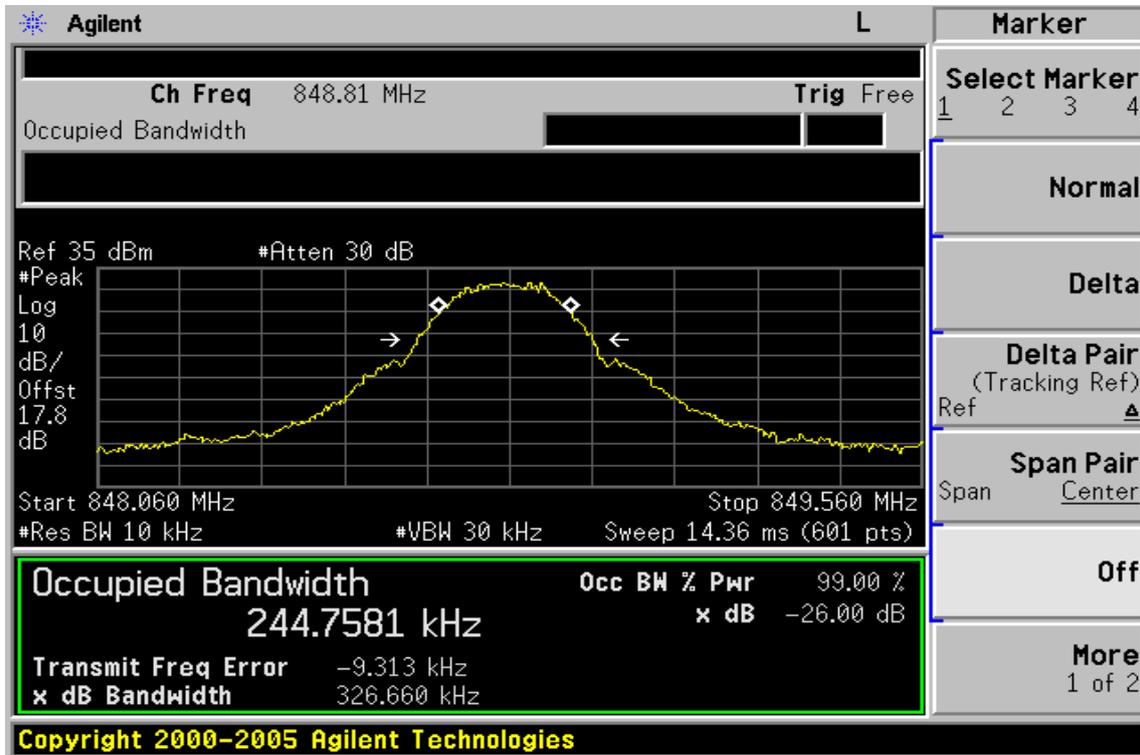
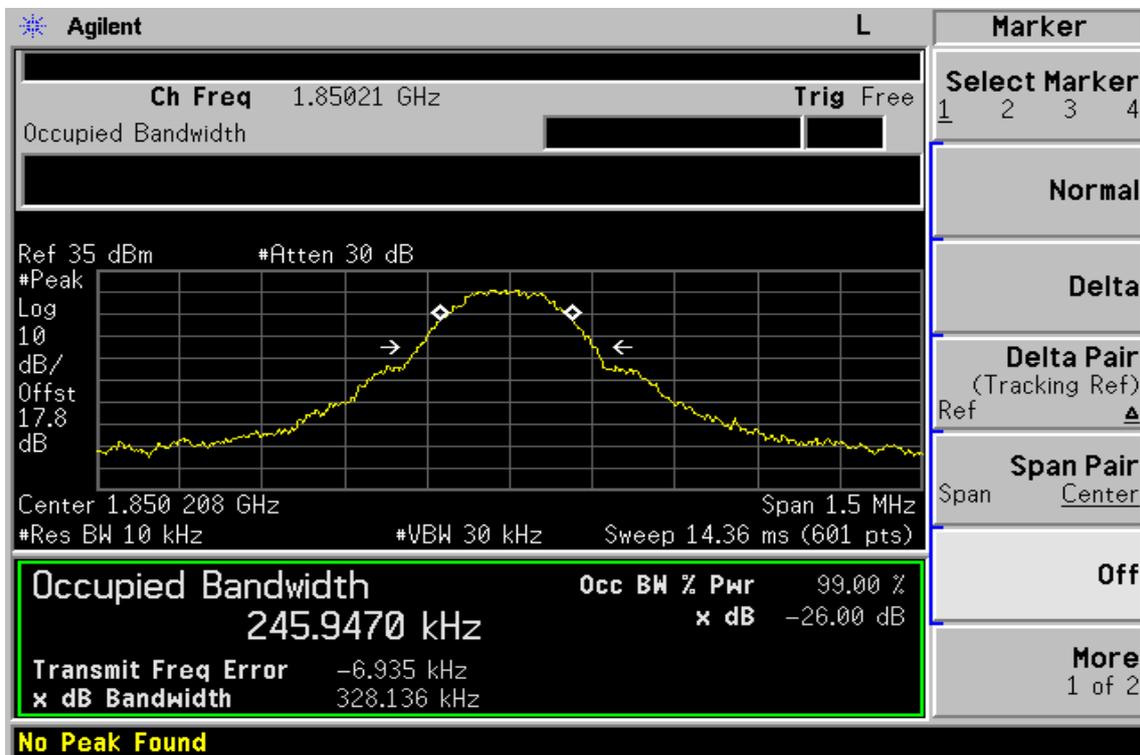


Figure 7-4: PCS Channel Low



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Figure 7-5 PCS Channel Mid

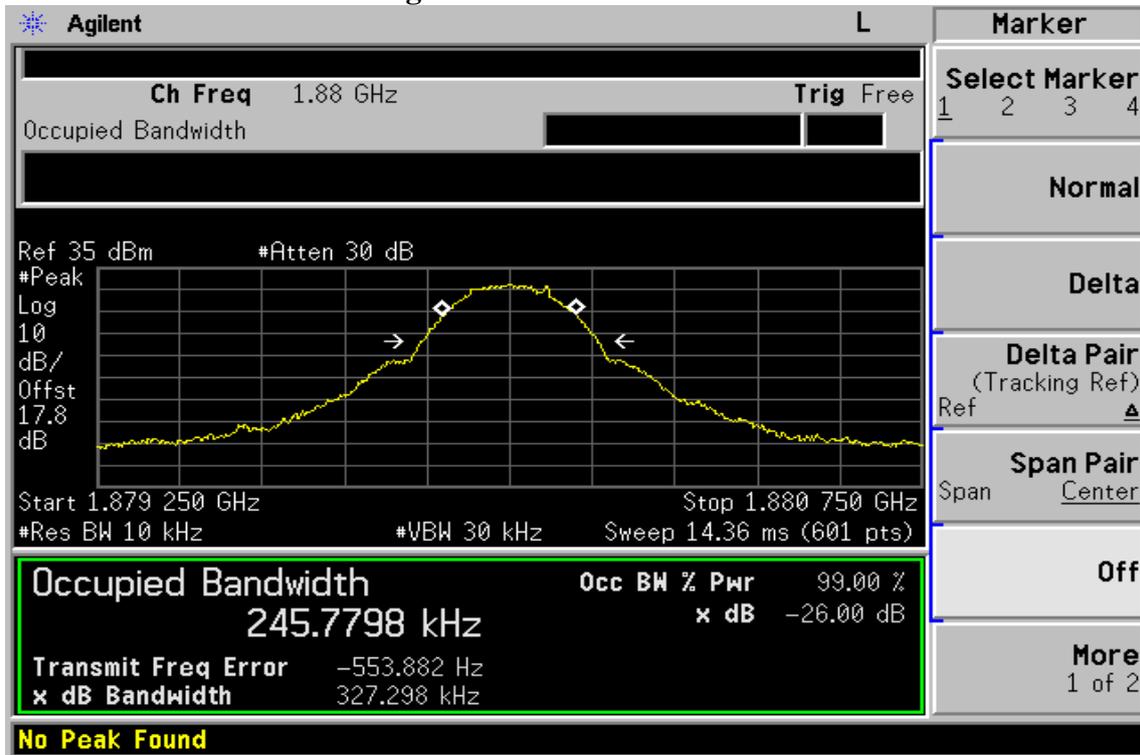
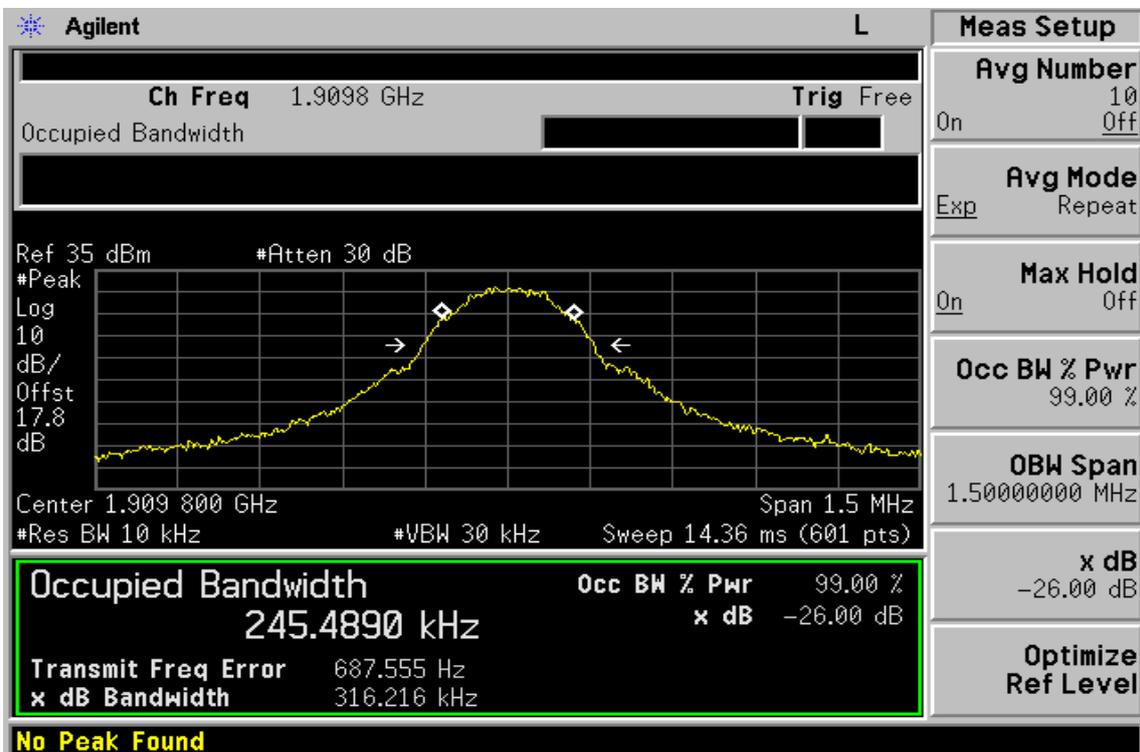


Figure 7-6: PCS Channel High



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Figure 7-7: EDGE 850 Channel Low

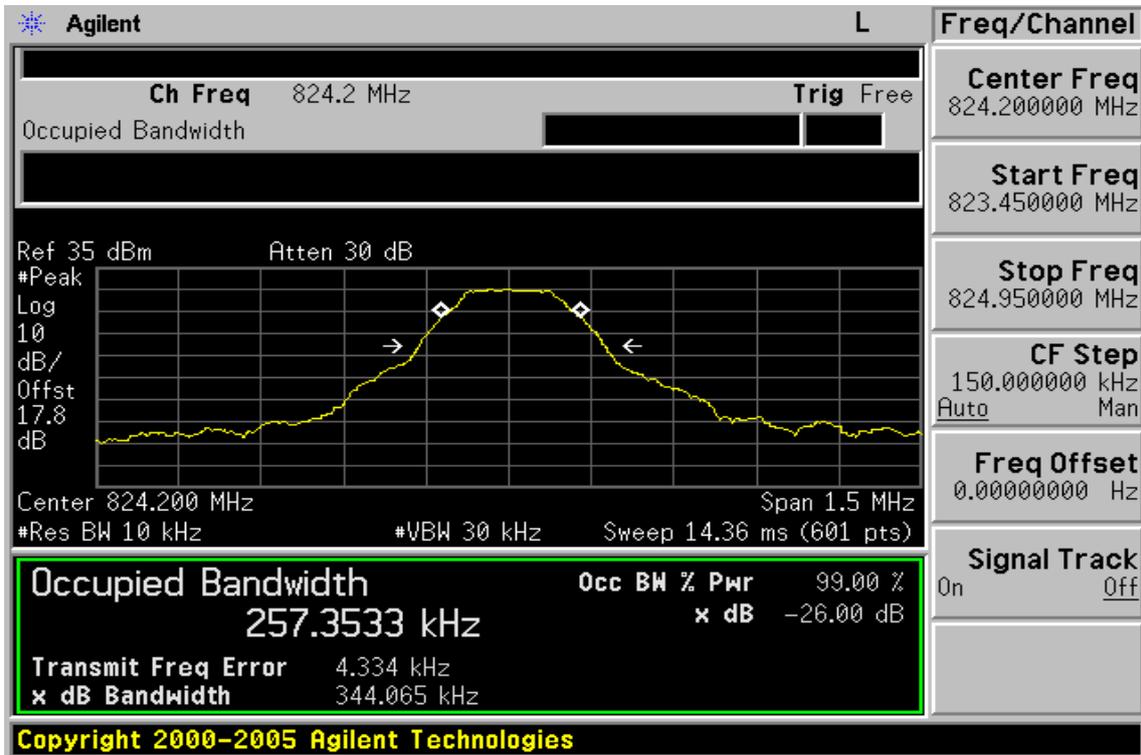


Figure 7-8 EDGE 850 Channel Mid

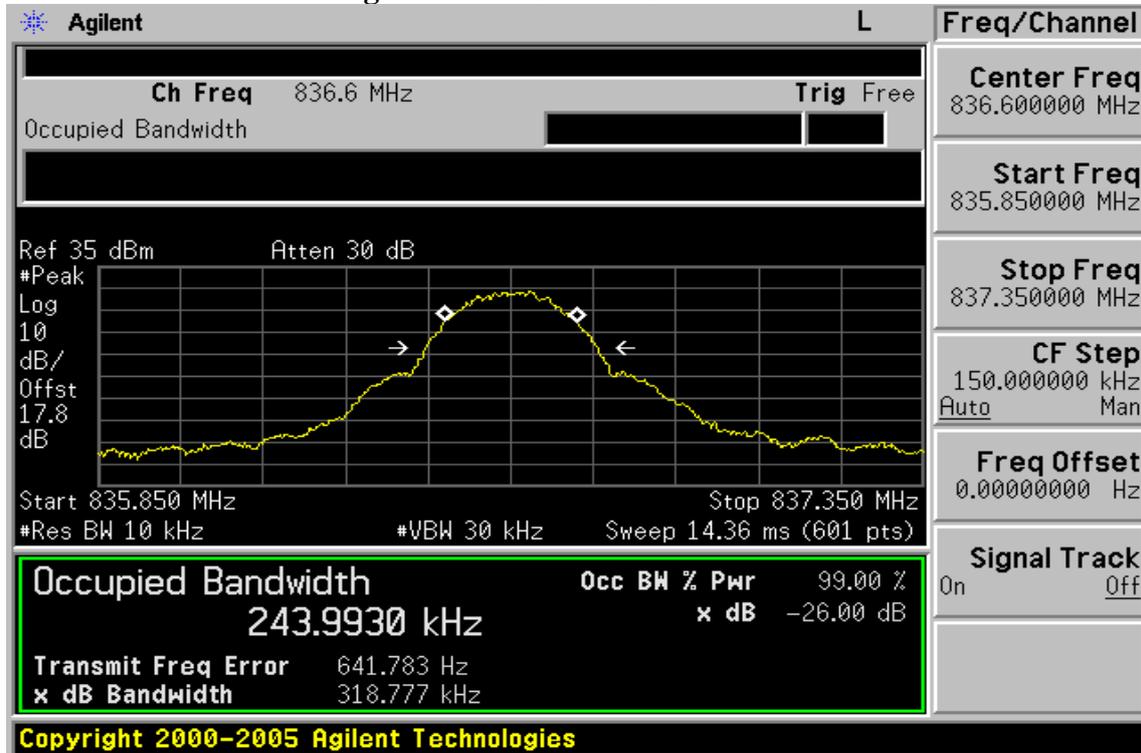


Figure 7-9: EDGE 850 Channel High

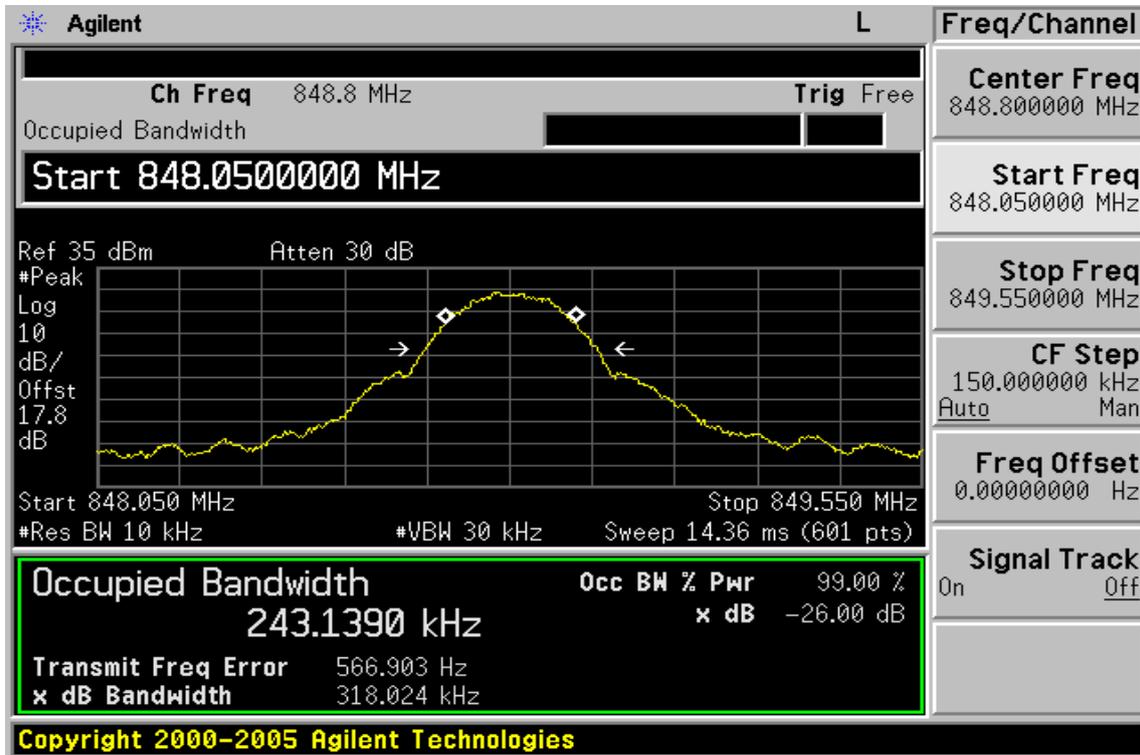
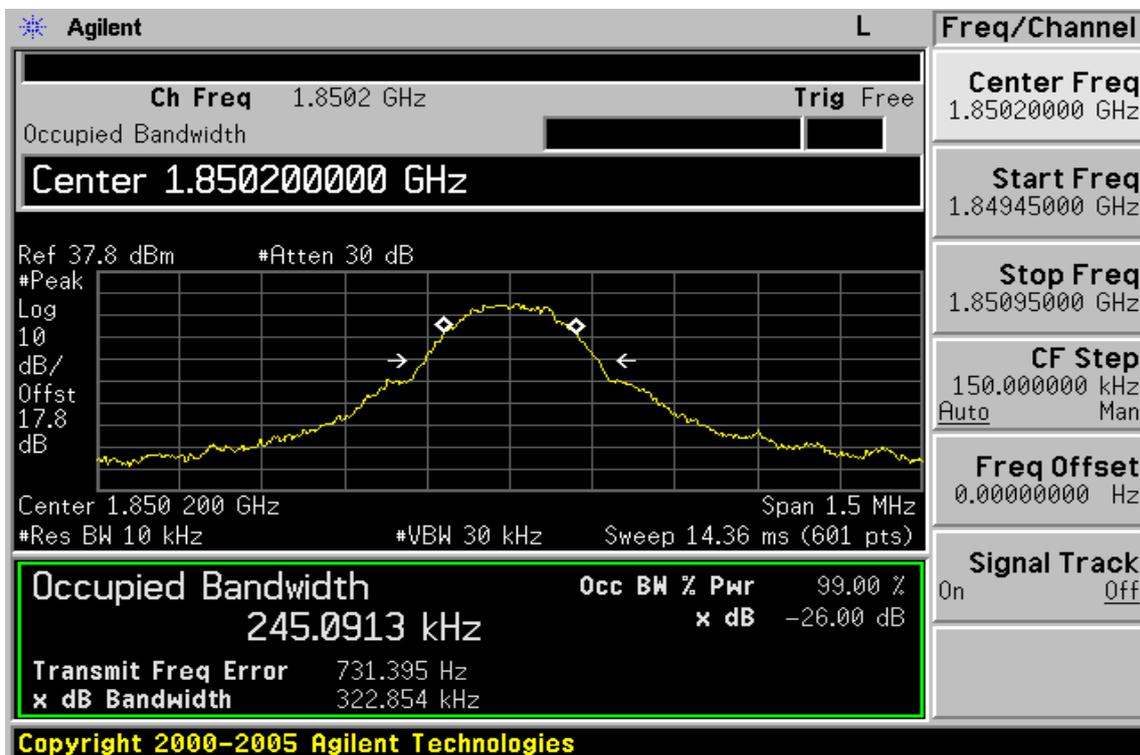


Figure 7-10: EDGE 1900 Channel Low



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Figure 7-11 EDGE 1900 Channel Mid

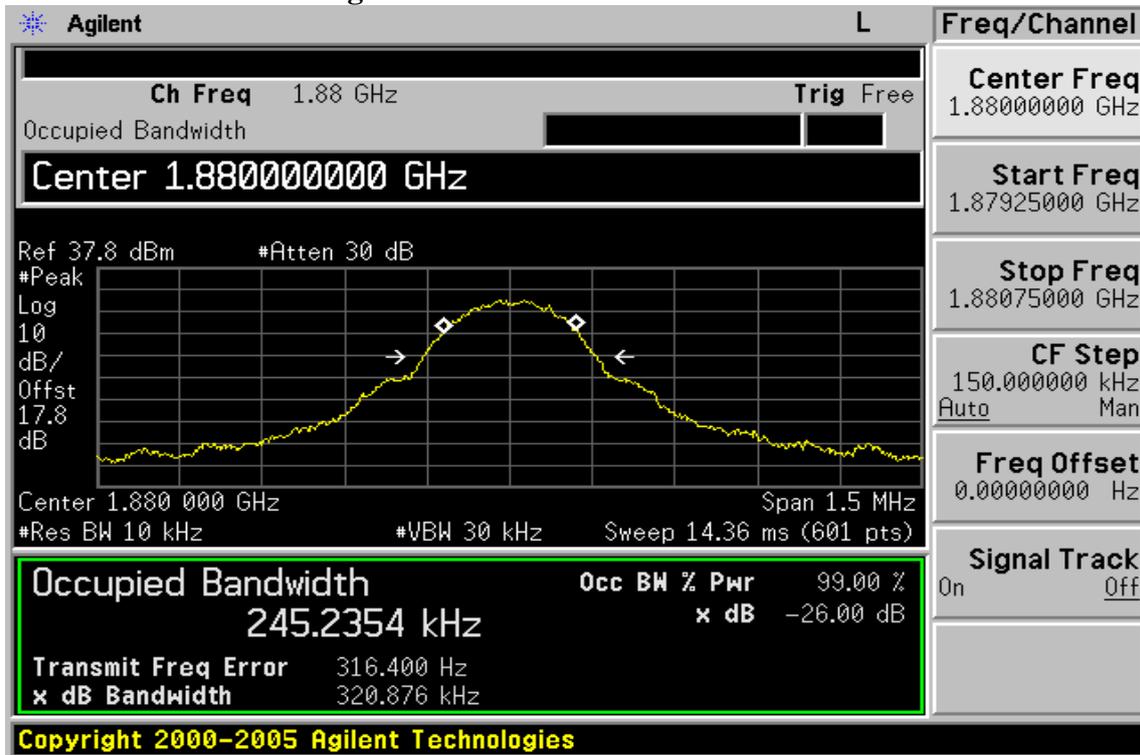
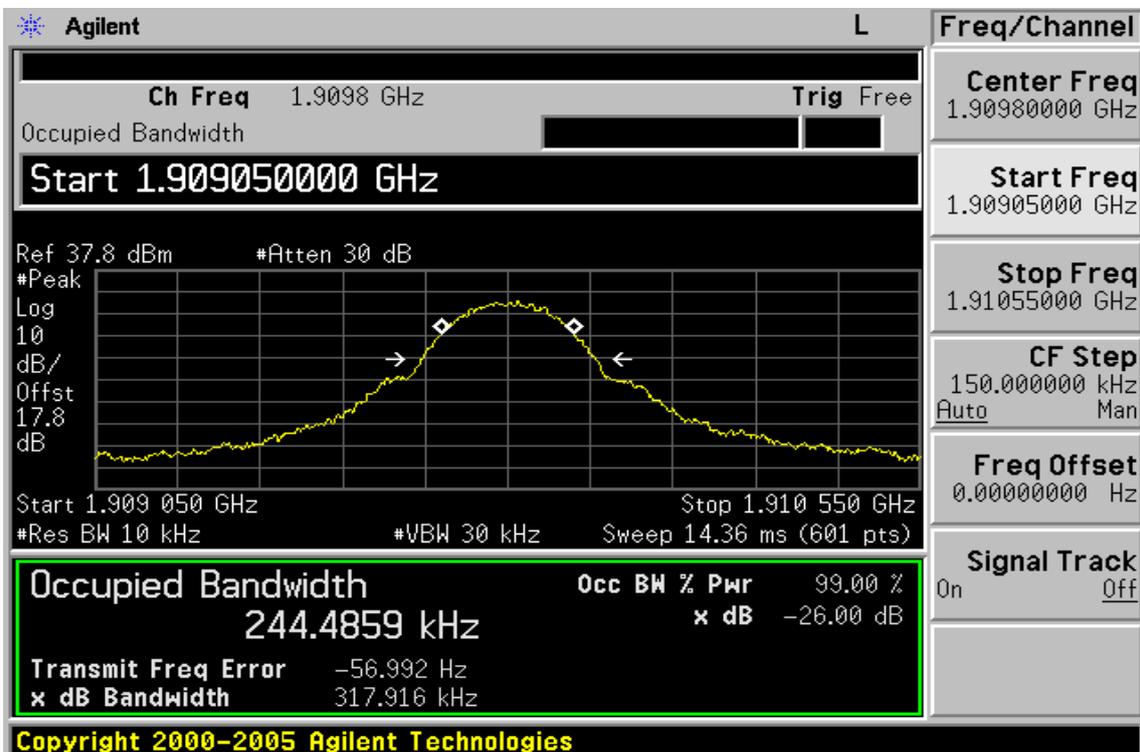


Figure 7-12: EDGE 1900 Channel High



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Figure 7-13: WCDMA BAND II Channel Low

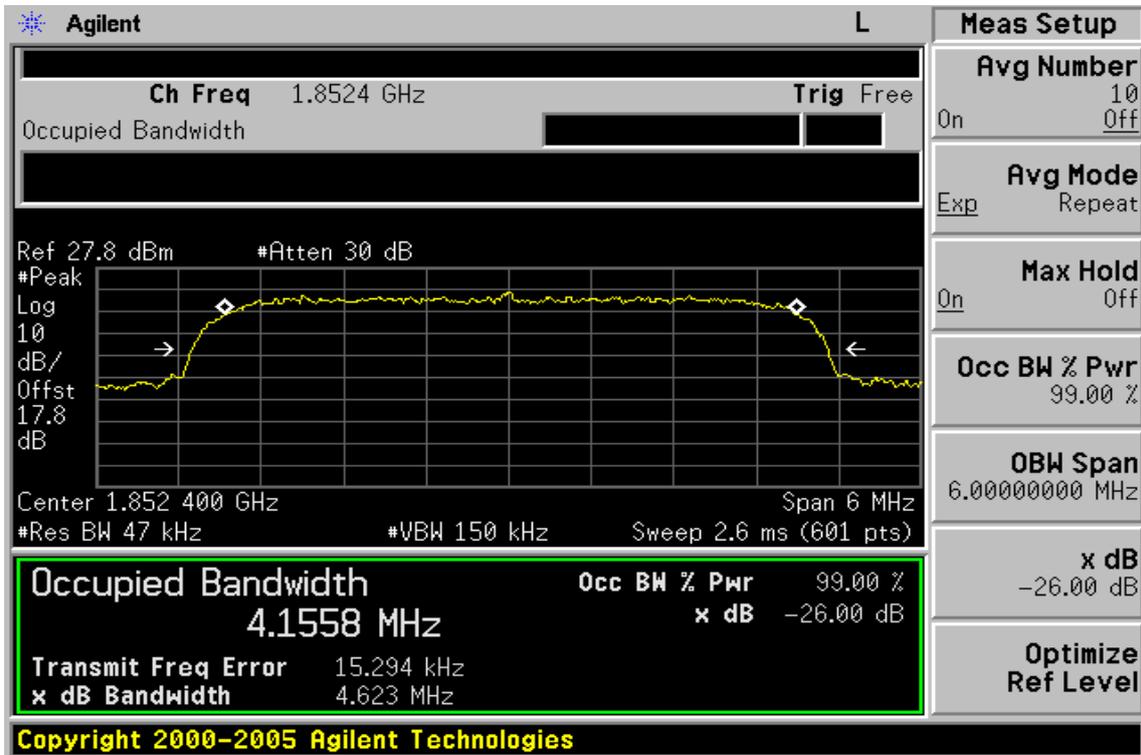
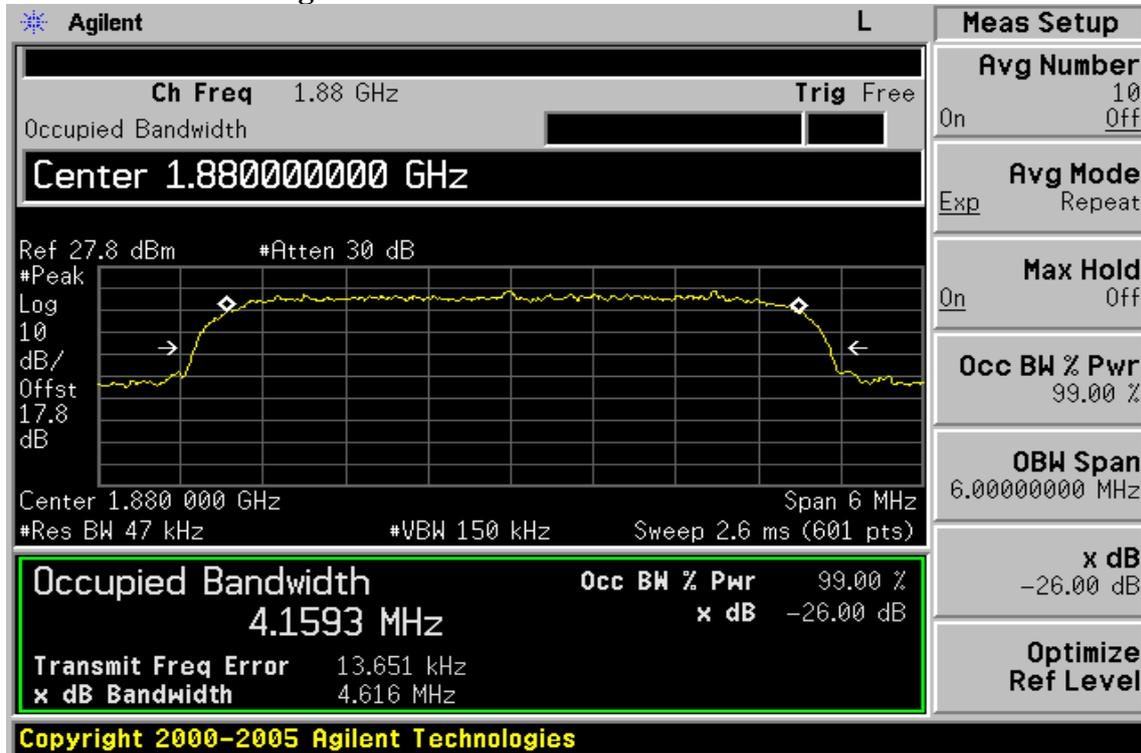


Figure 7-14 WCDMA BAND II Channel Mid



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Figure 7-15: WCDMA BAND II Channel High

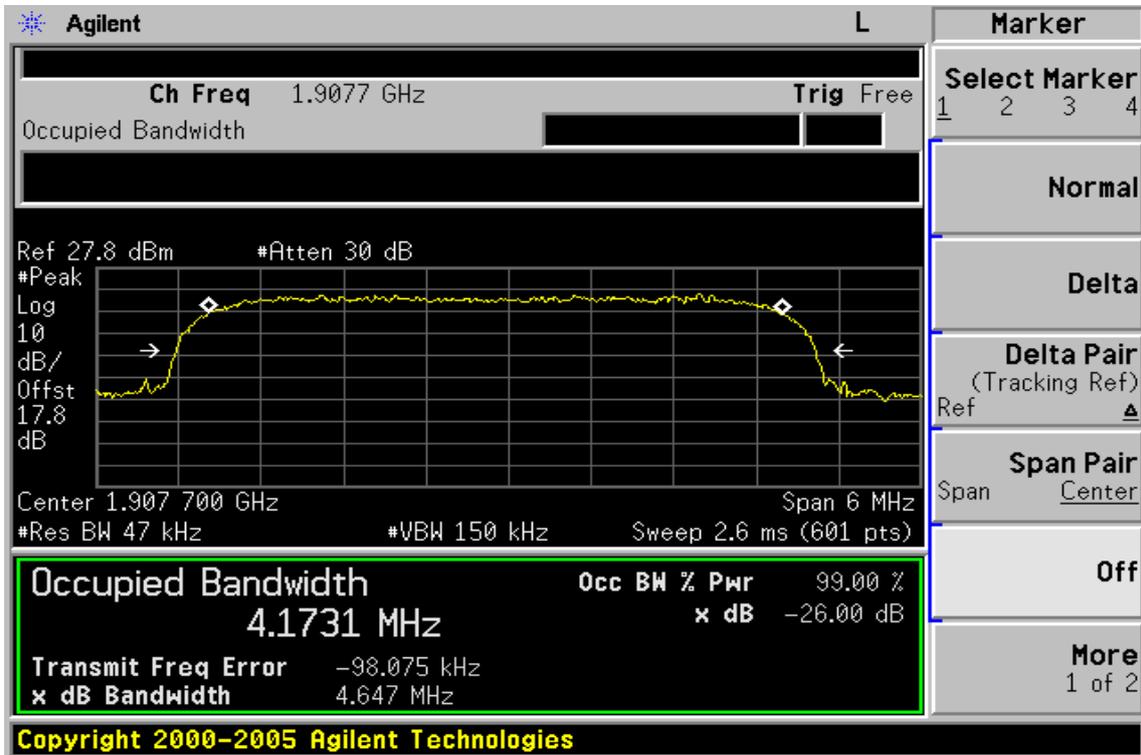
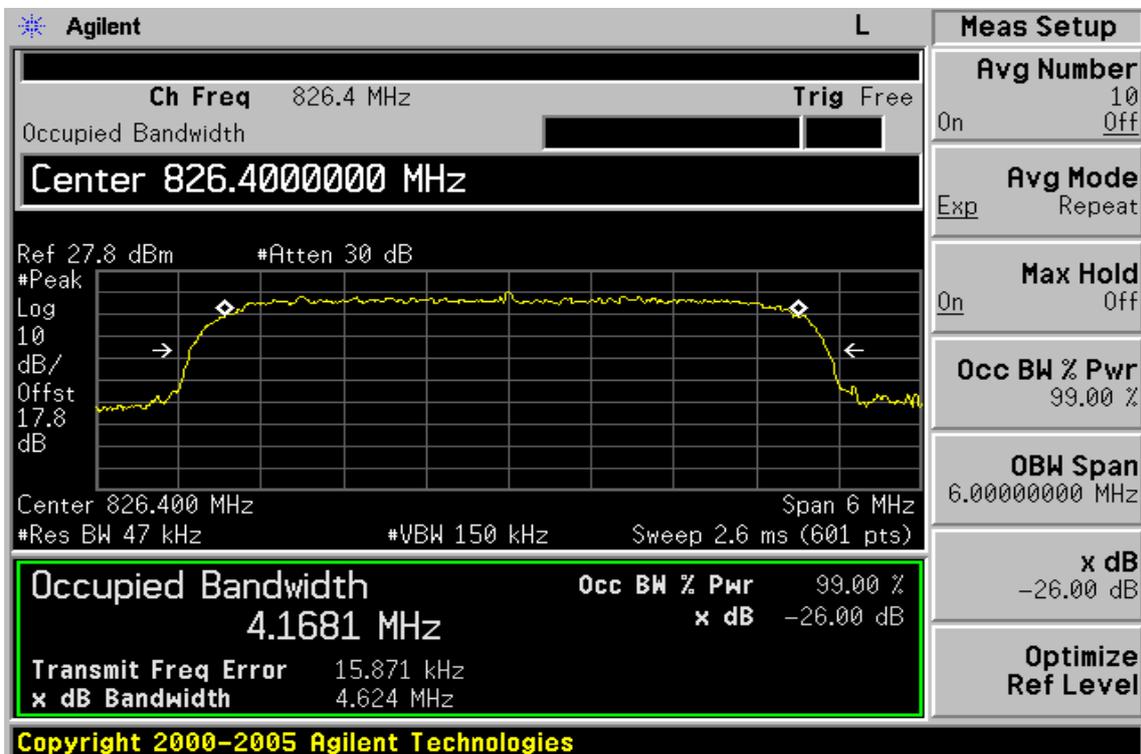


Figure 7-16: WCDMA BAND V Channel Low



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Figure 7-17 WCDMA BAND V Channel Mid

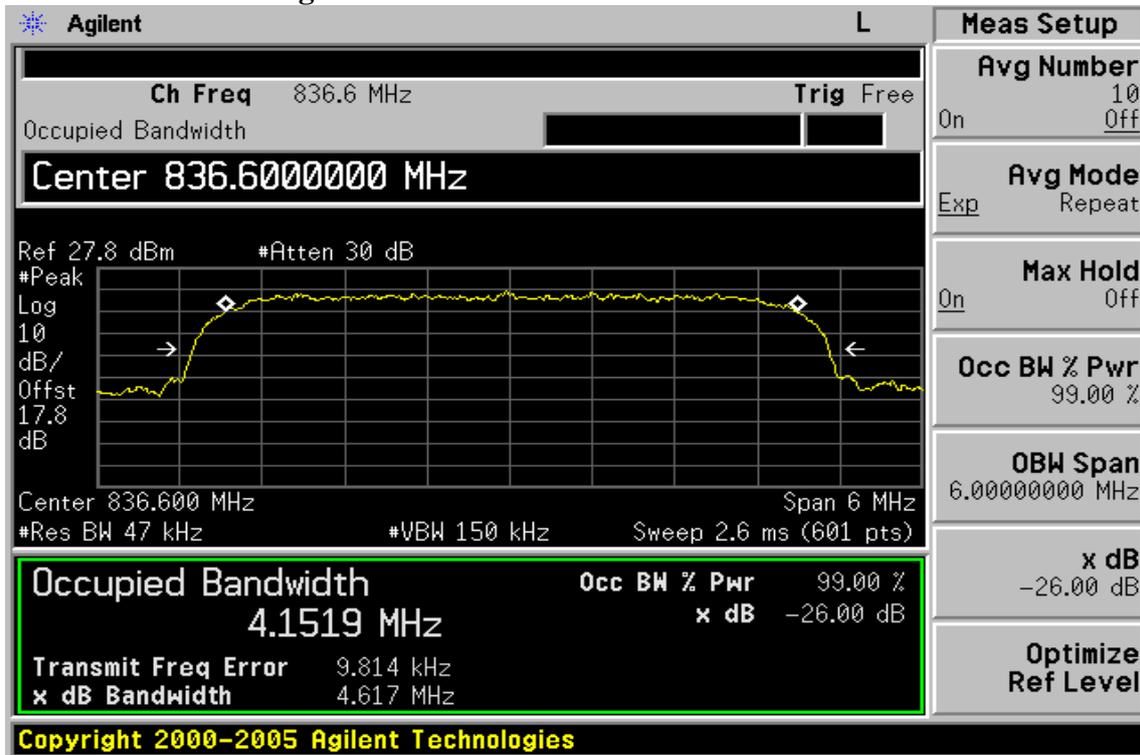
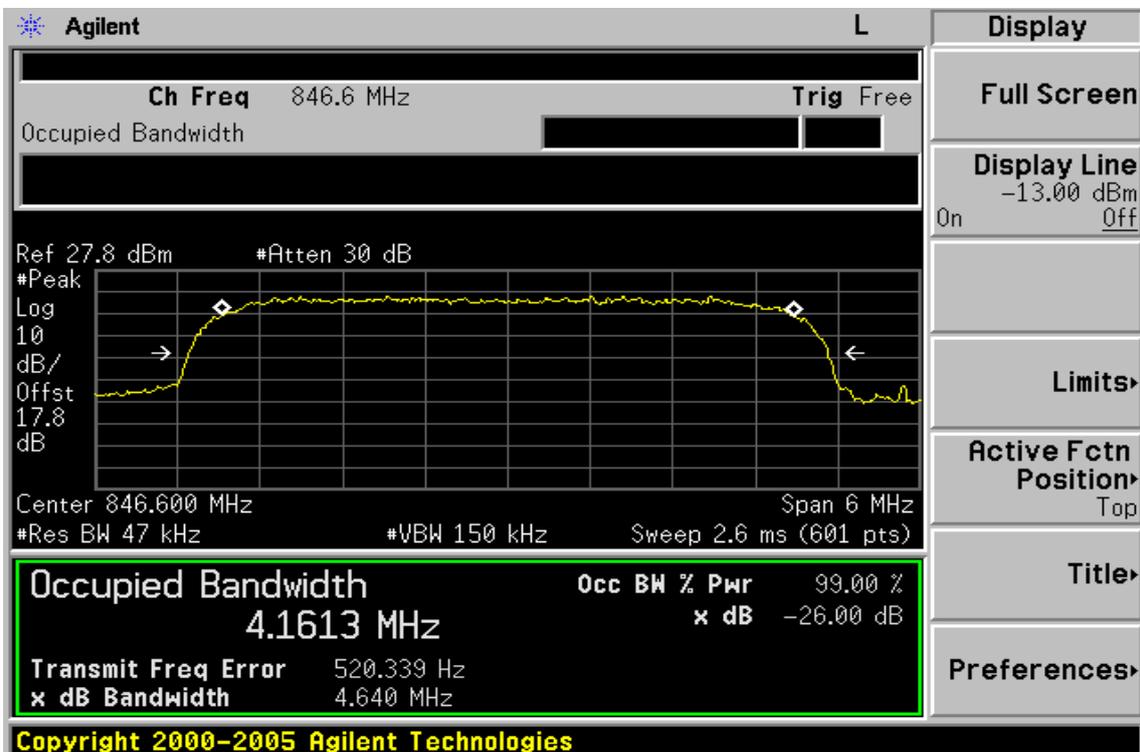


Figure 7-18: WCDMA BAND V Channel High



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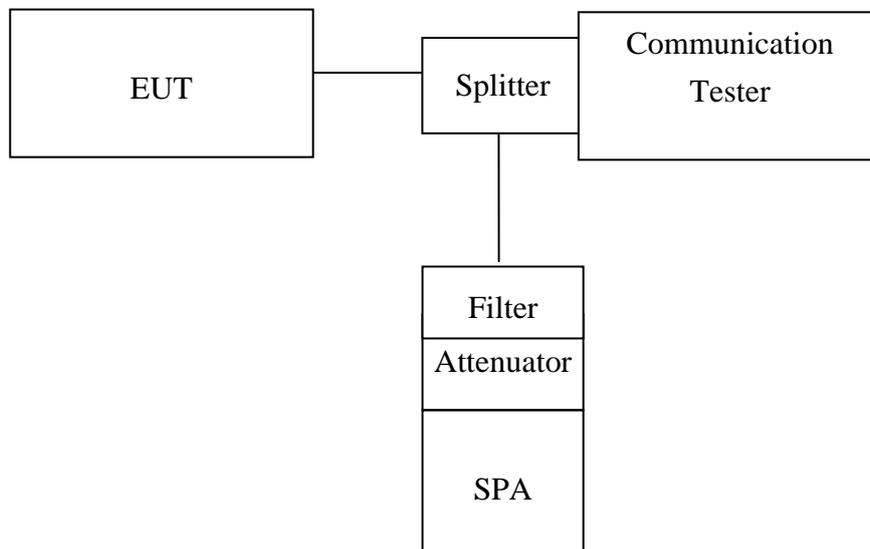
8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1 Standard Applicable

According to FCC §2.1051.

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

8.2 Test SET-UP



Note: Measurement setup for testing on Antenna connector

8.3 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= 10th 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.

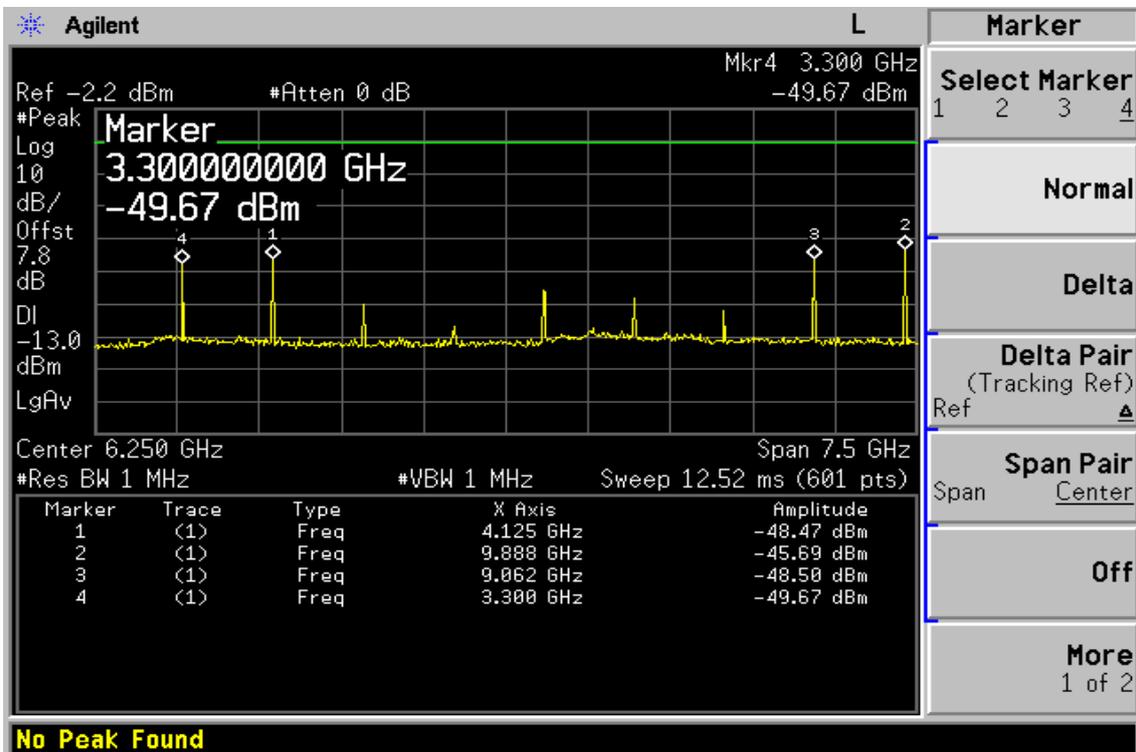
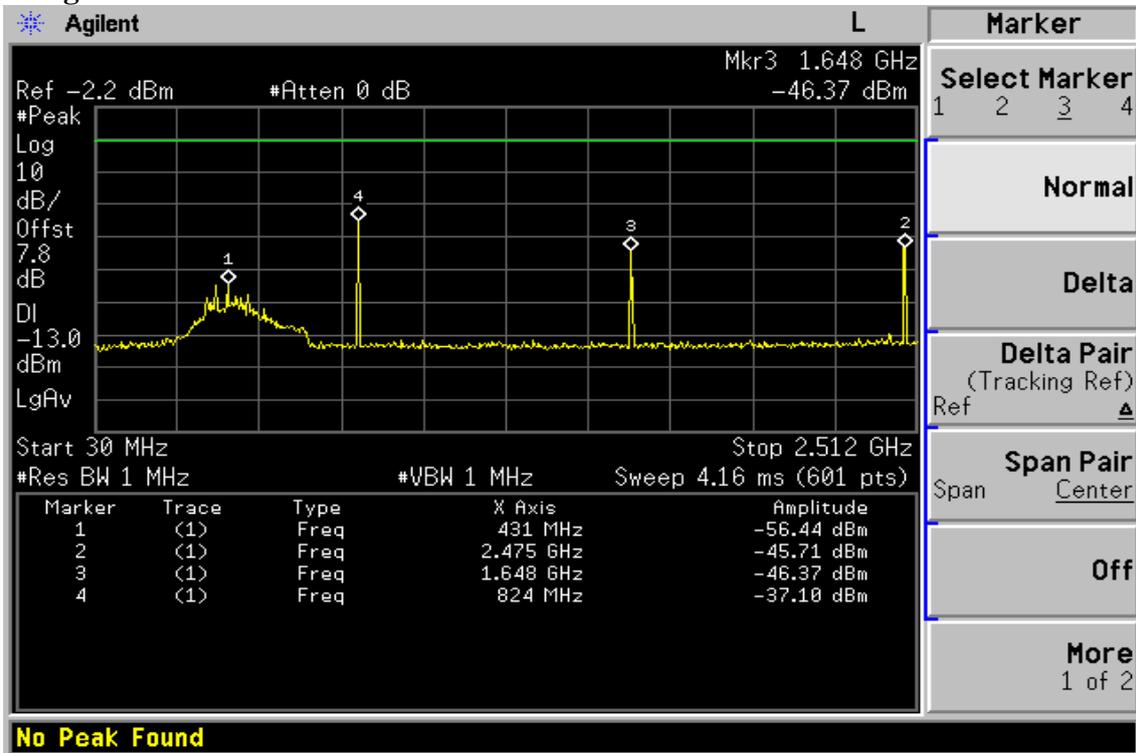
8.4 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|--------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/27/2007 | 04/26/2008 |
| Spectrum Analyzer | Agilent | E7405A | US41160416 | 07/04/2007 | 07/03/2008 |
| Power Sensor | Anritsu | MA2490A | 31431 | 07/07/2007 | 07/06/2008 |
| Power Meter | Anritsu | ML2487A | 6K00002070 | 07/07/2007 | 07/06/2008 |
| Communication Test | R&S | SMU200 | N/A | N/A | N/A |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 04/26/2007 | 04/25/2008 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA | N/A | N/A | N/A |
| Attenuator | Mini-Circuit | BW-S10W5 | N/A | 07/05/2007 | 07/04/2008 |
| Attenuator | Mini-Circuit | BW-S6W5 | N/A | 07/05/2007 | 07/04/2008 |
| Splitter | Agilent | 11636B | 51728 | 09/23/2007 | 09/22/2008 |
| Signal Generator | R&S | SMR40 | 100210 | 11/09/2007 | 11/10/2008 |
| DC Power Supply | Agilent | 6038A | 2929A-07548 | 01/06/2008 | 01/05/2009 |

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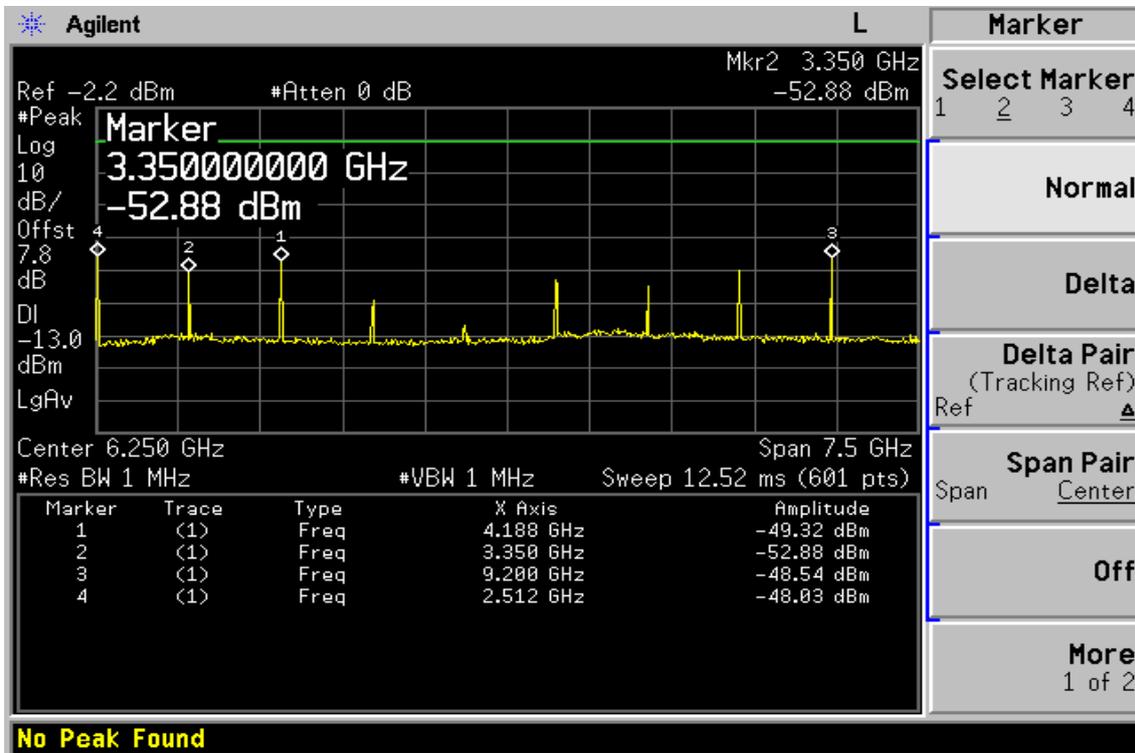
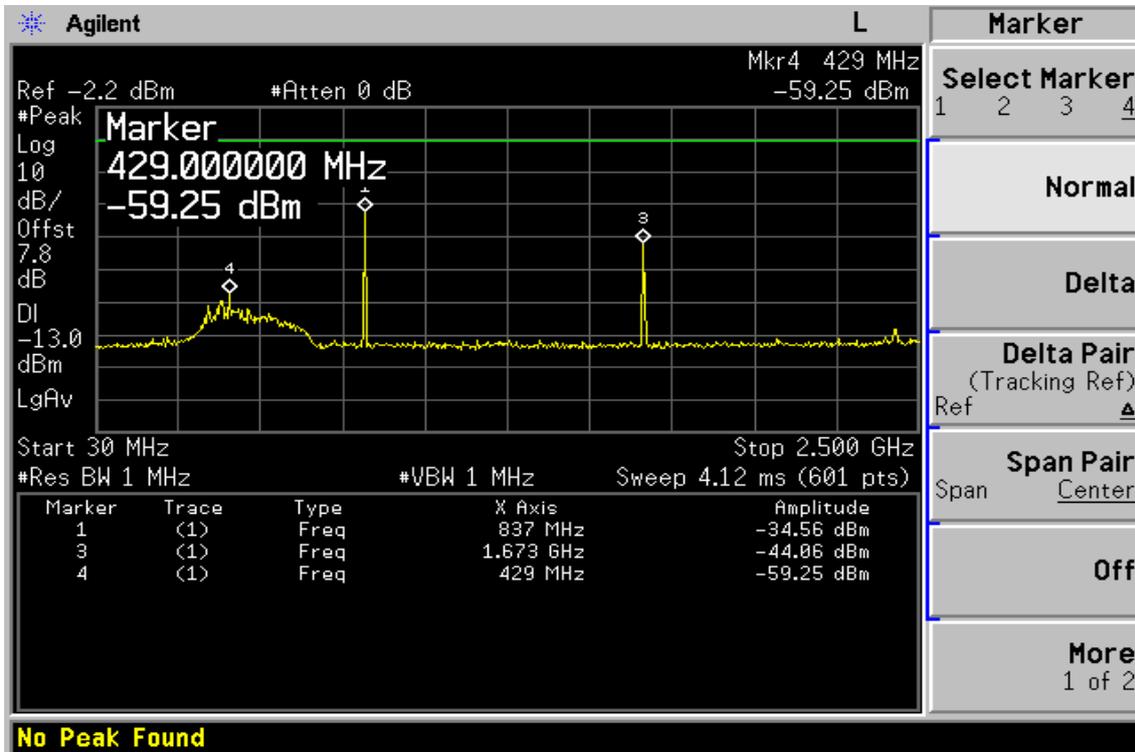
8.5 Measurement Result

Figure 8-1: Out of Band emission at antenna terminals– GSM Channel Lowest



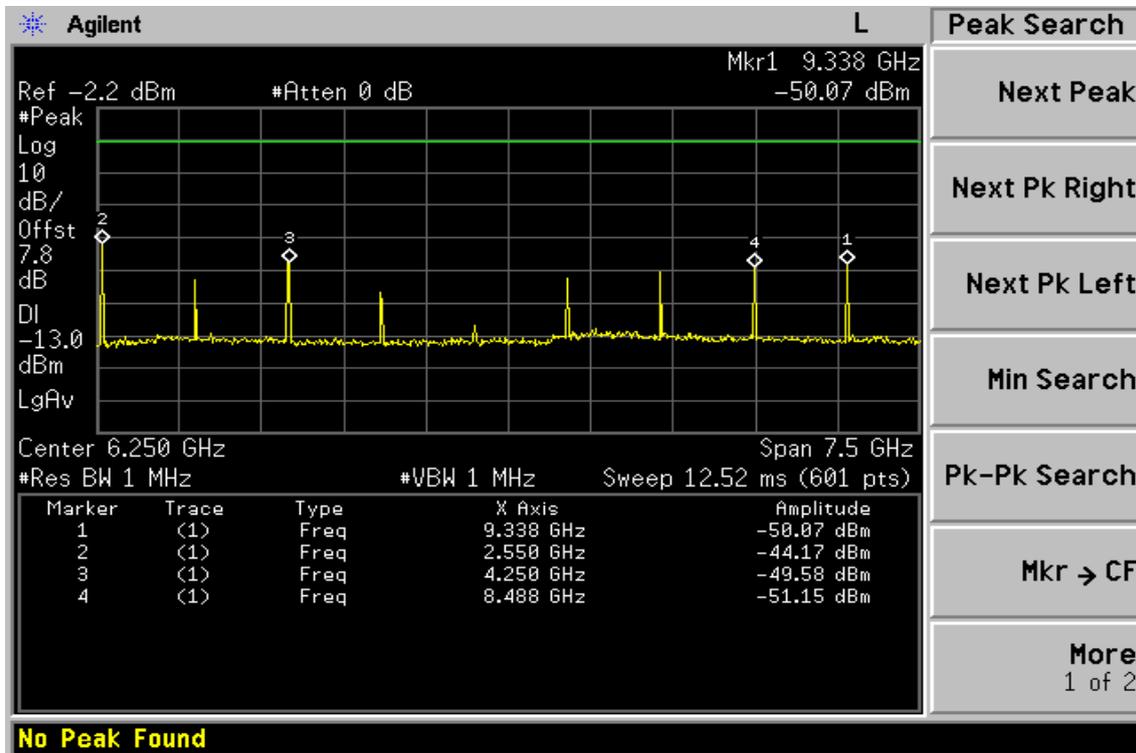
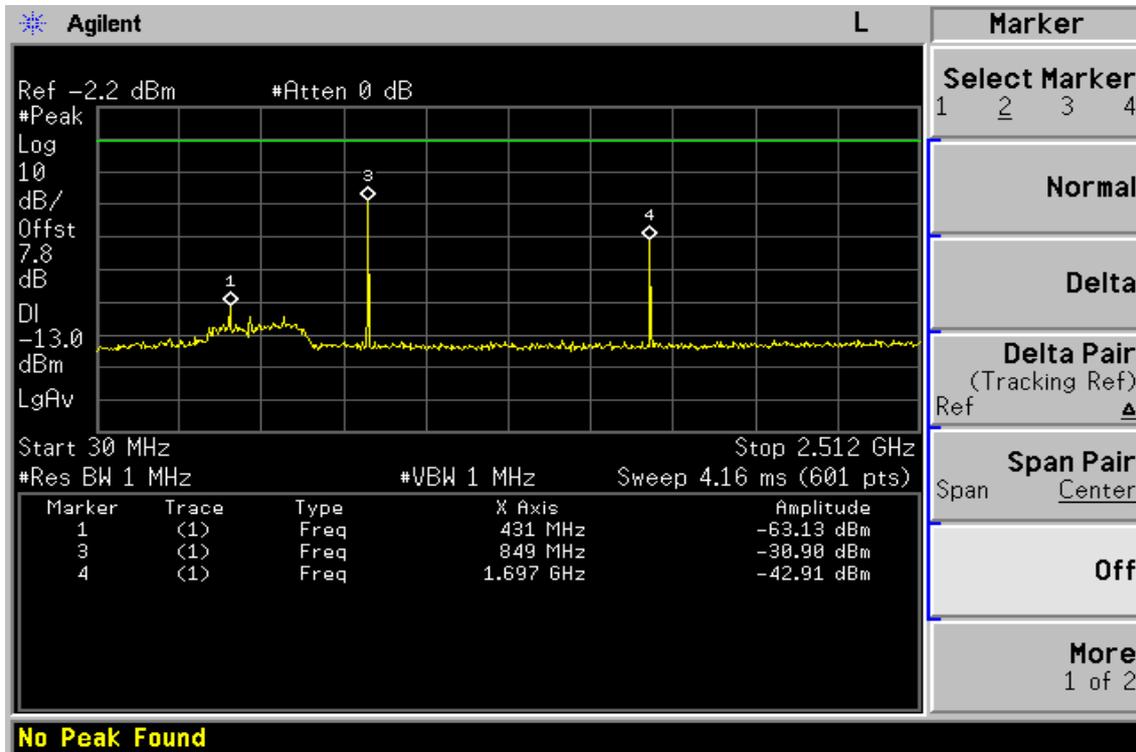
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Figure 8-2: Out of Band emission at antenna terminals –GSM Channel Mid



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Figure 8-3: Out of Band emission at antenna terminals–GSM Channel Highest



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Figure 8-4: Band edge emission at antenna terminals – GSM Channel Lowest

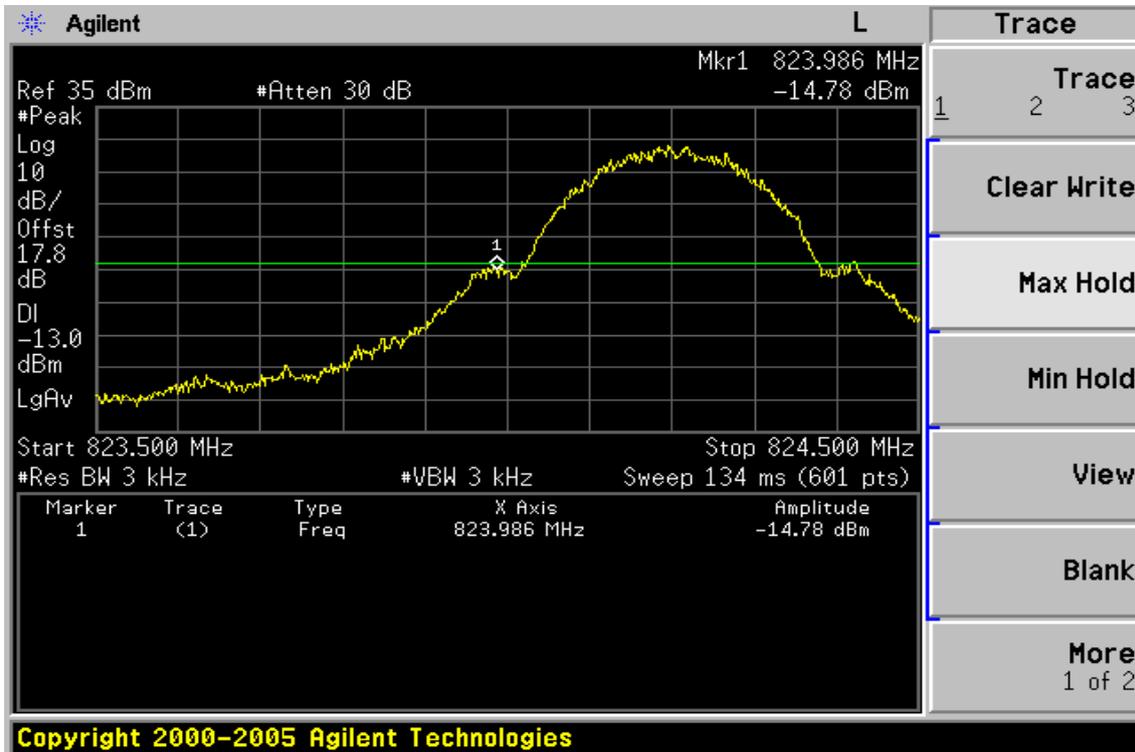
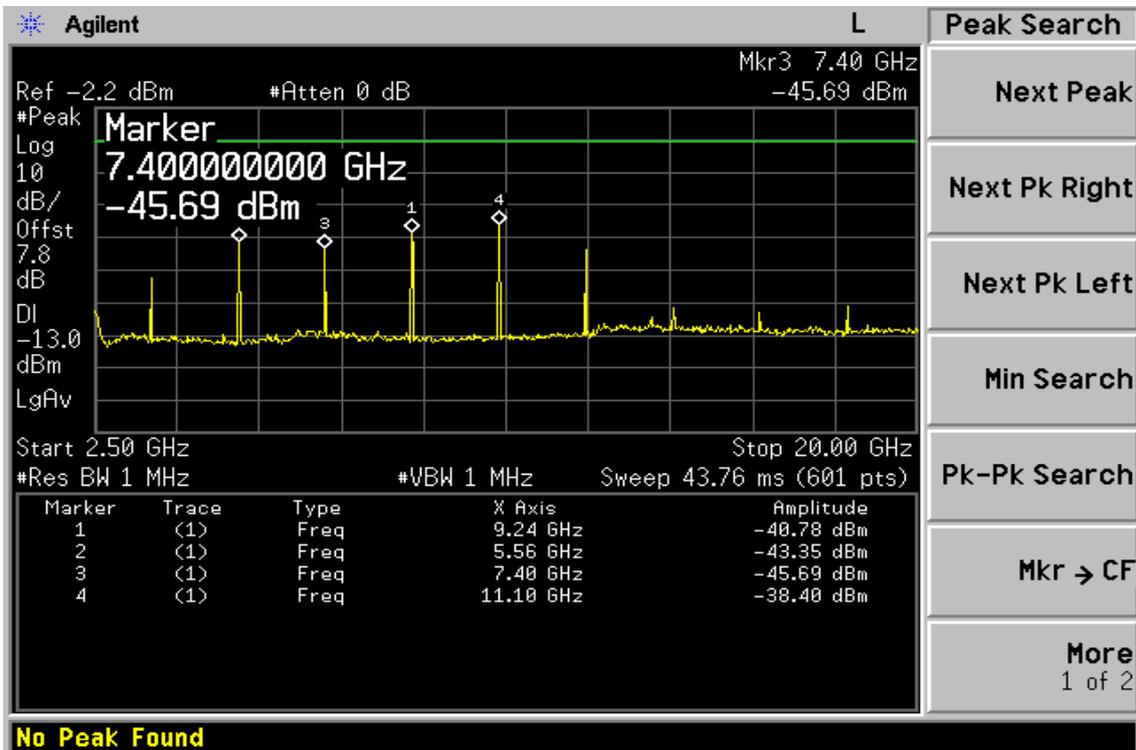
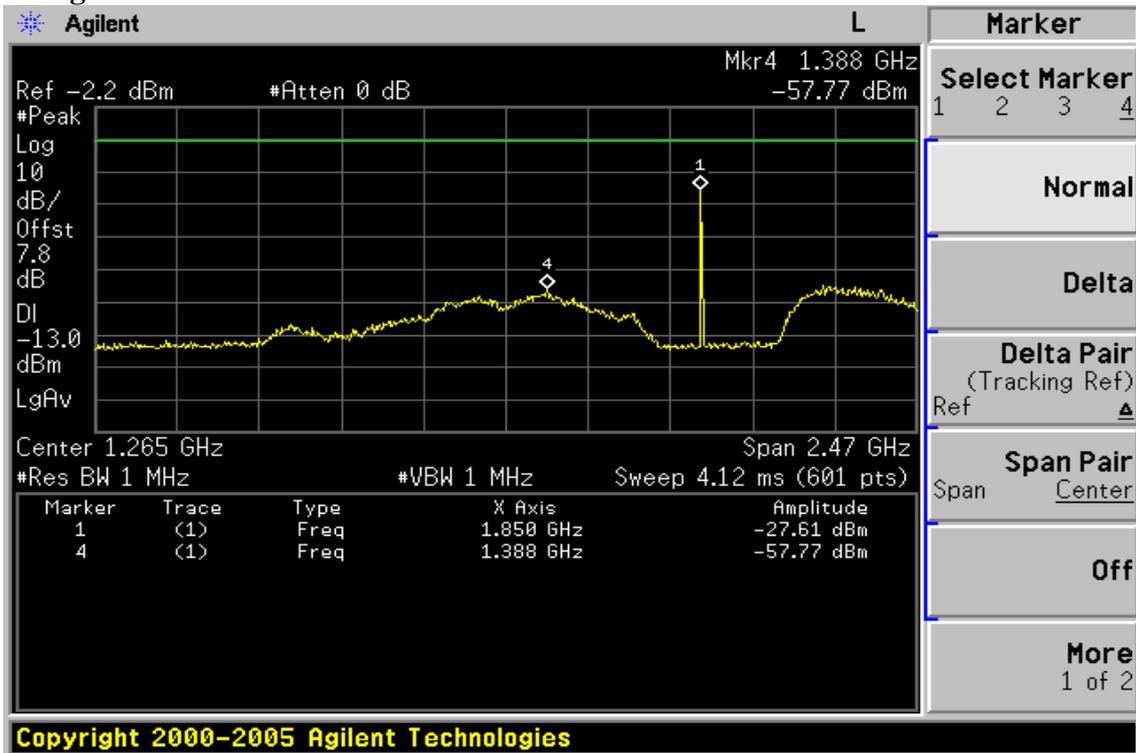


Figure 8-5: Band edge emission at antenna terminals – GSM Channel Highest



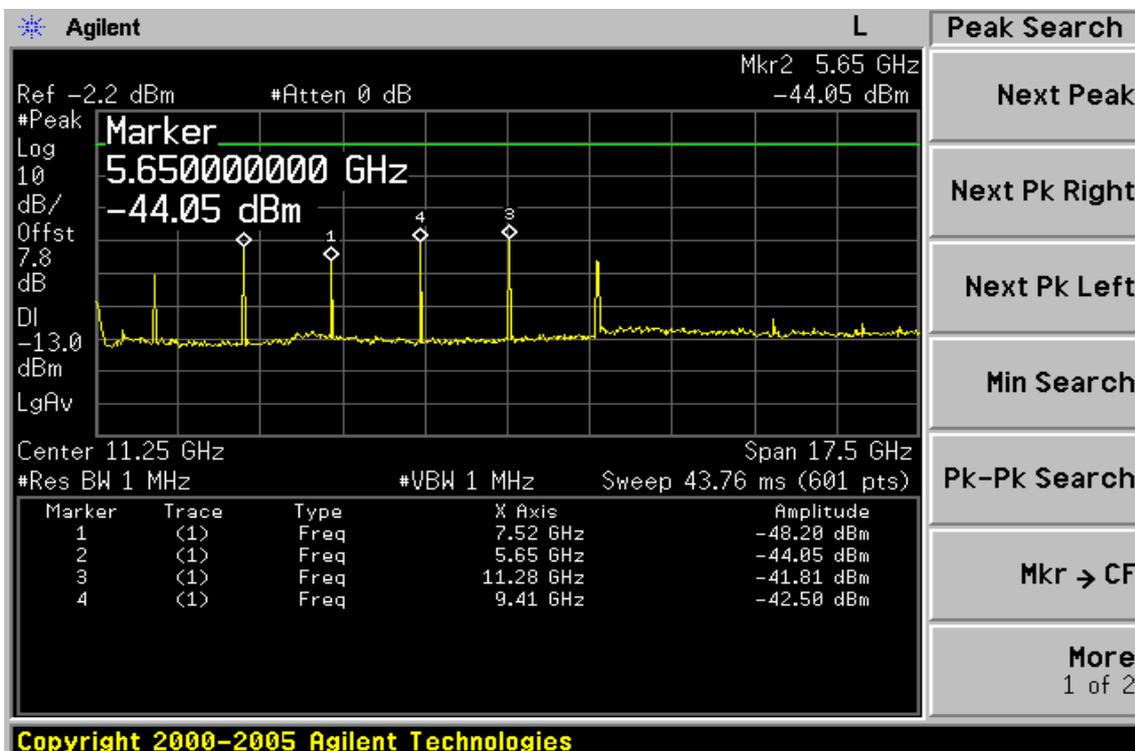
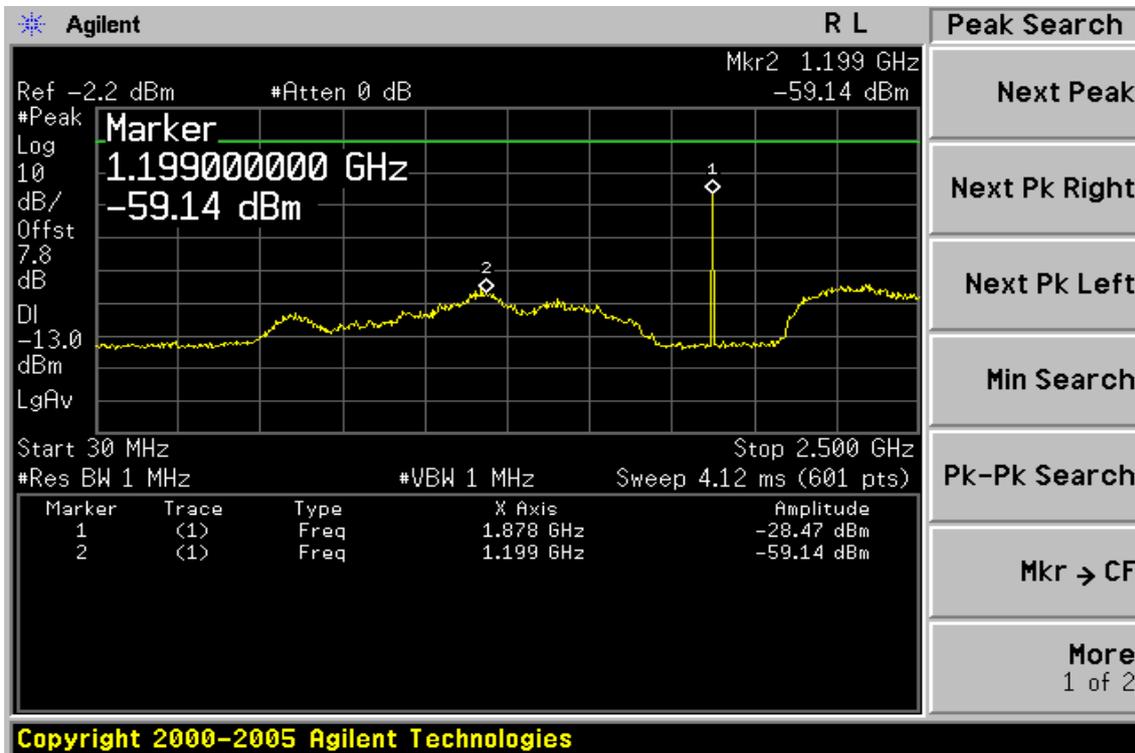
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Figure 8-6: Out of Band emission at antenna terminals– PCS Channel Lowest



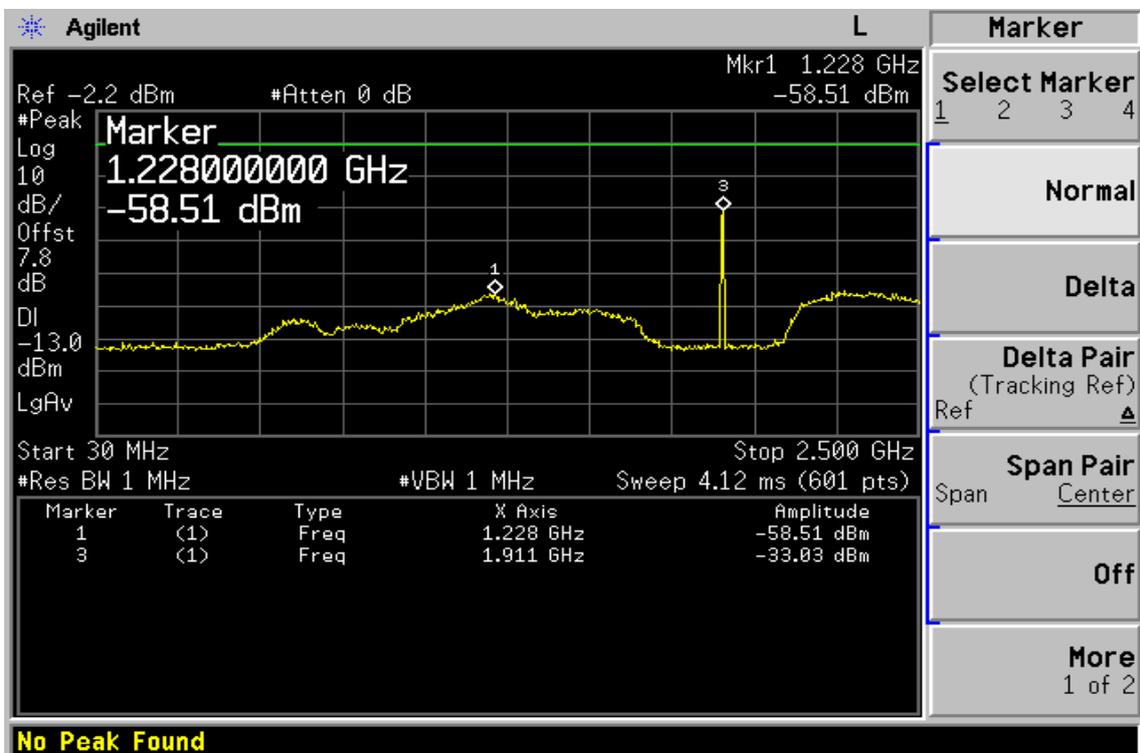
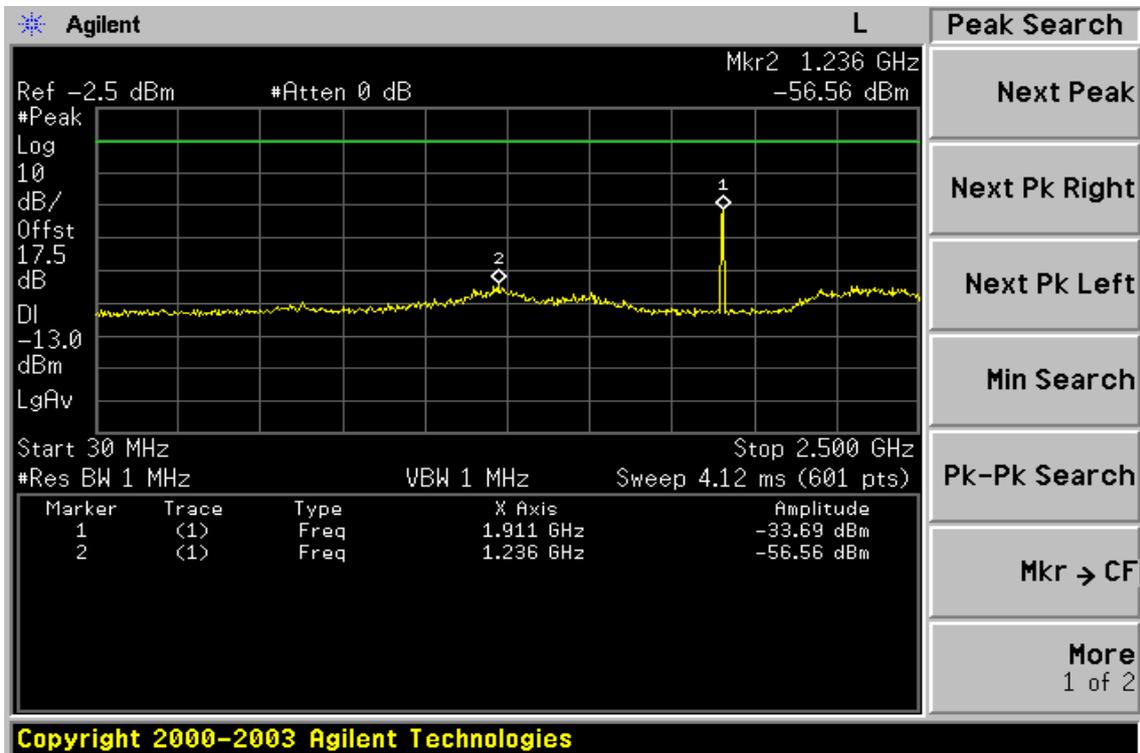
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Figure 8-7: Out of Band emission at antenna terminals –PCS Channel Mid



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Figure 8-8: Out of Band emission at antenna terminals–PCS Channel Highest



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Figure 8-9: Bad edge emission at antenna terminals – PCS Channel Lowest

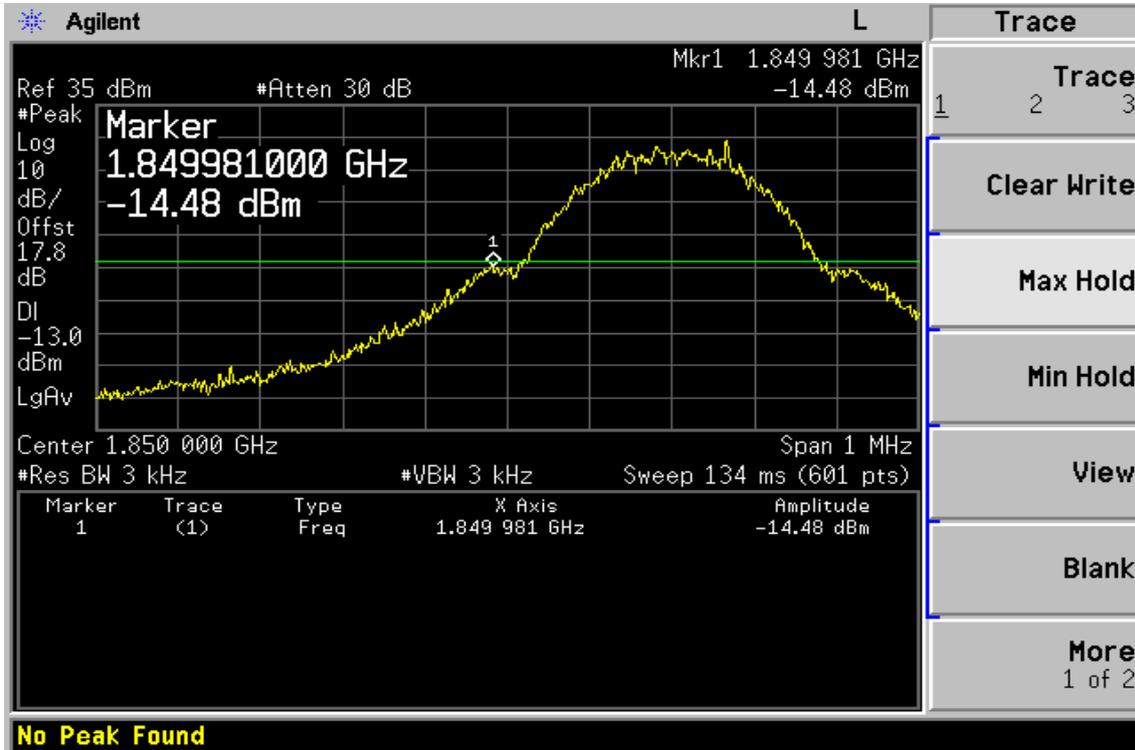
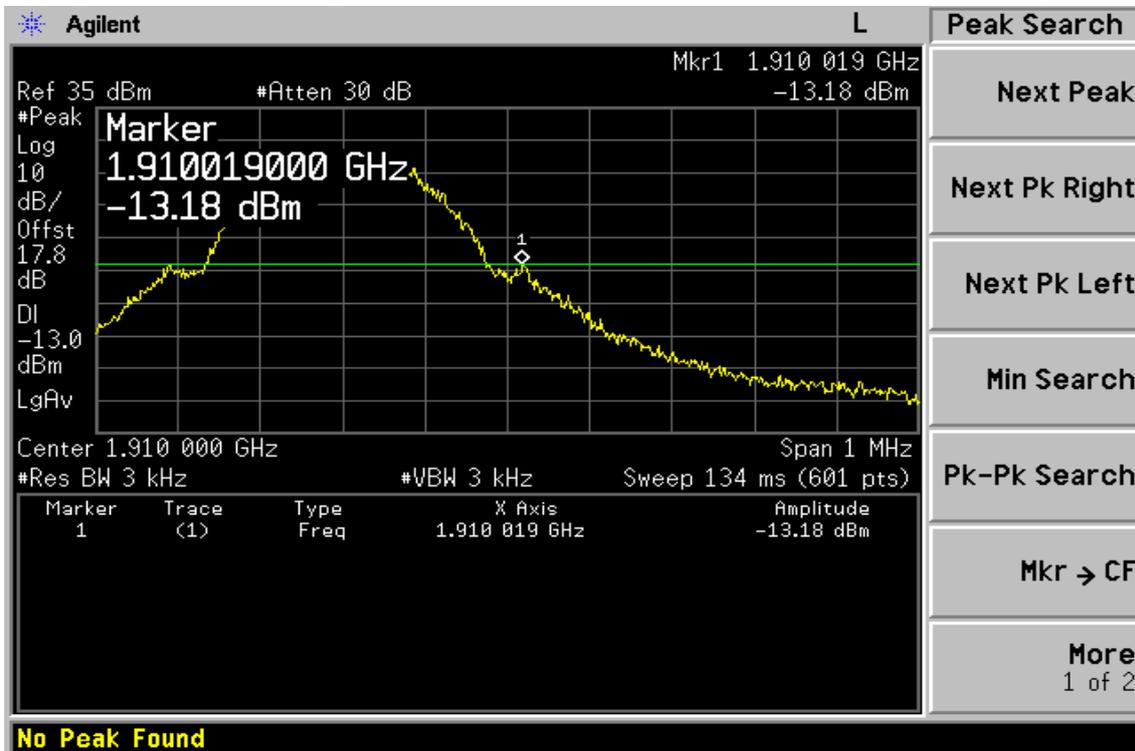
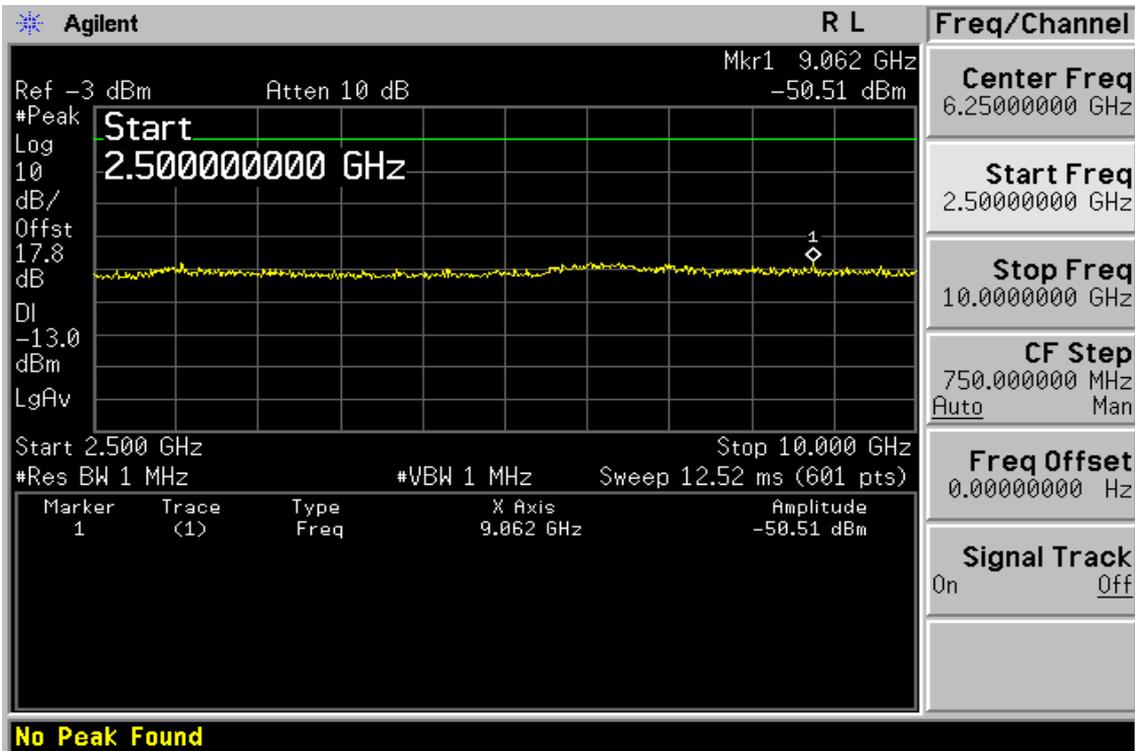
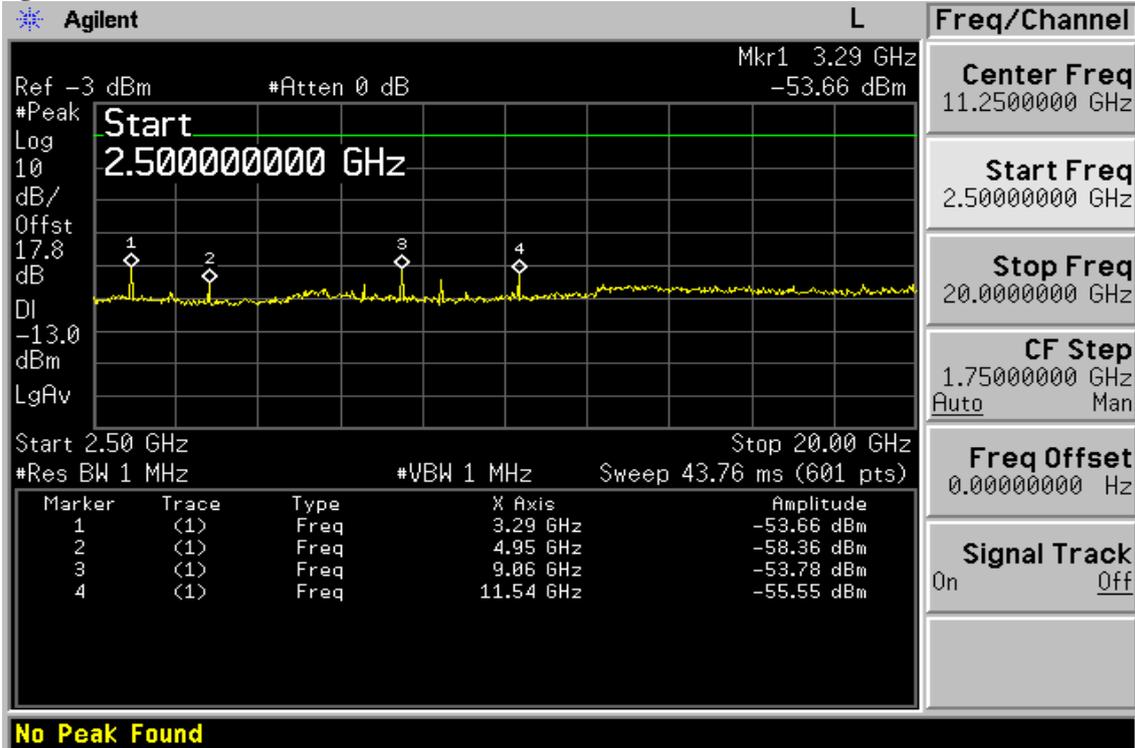


Figure 8-10: Band edge emission at antenna terminals – PCS Channel Highest



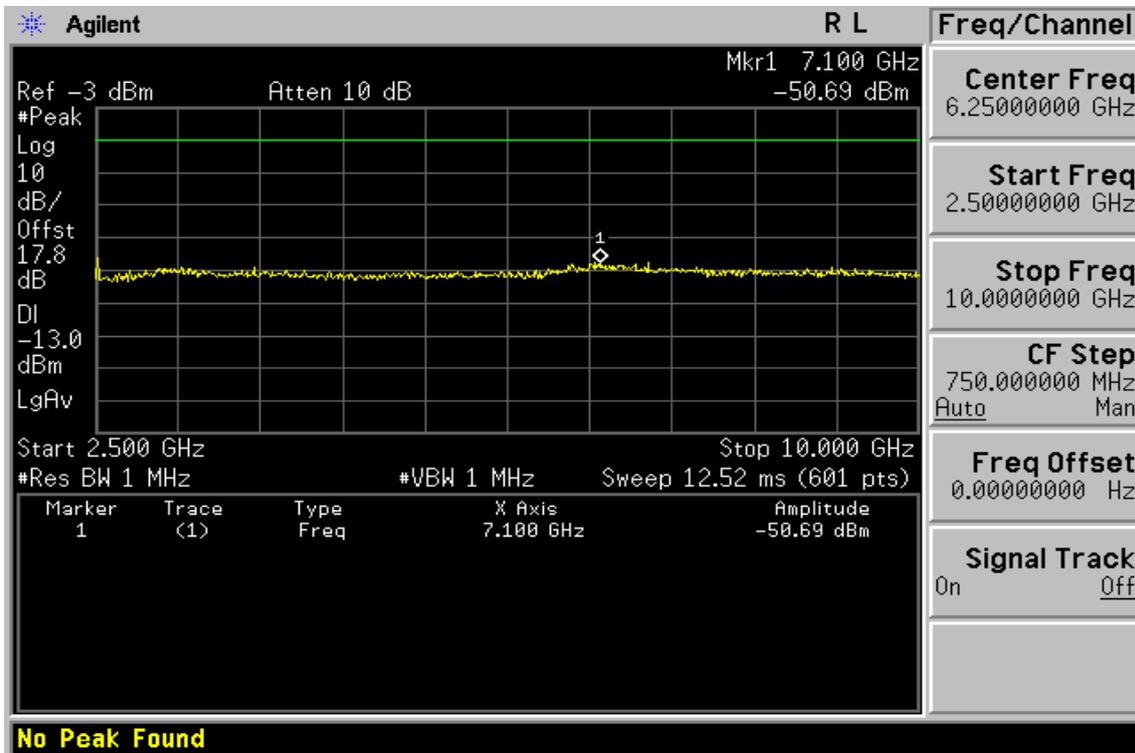
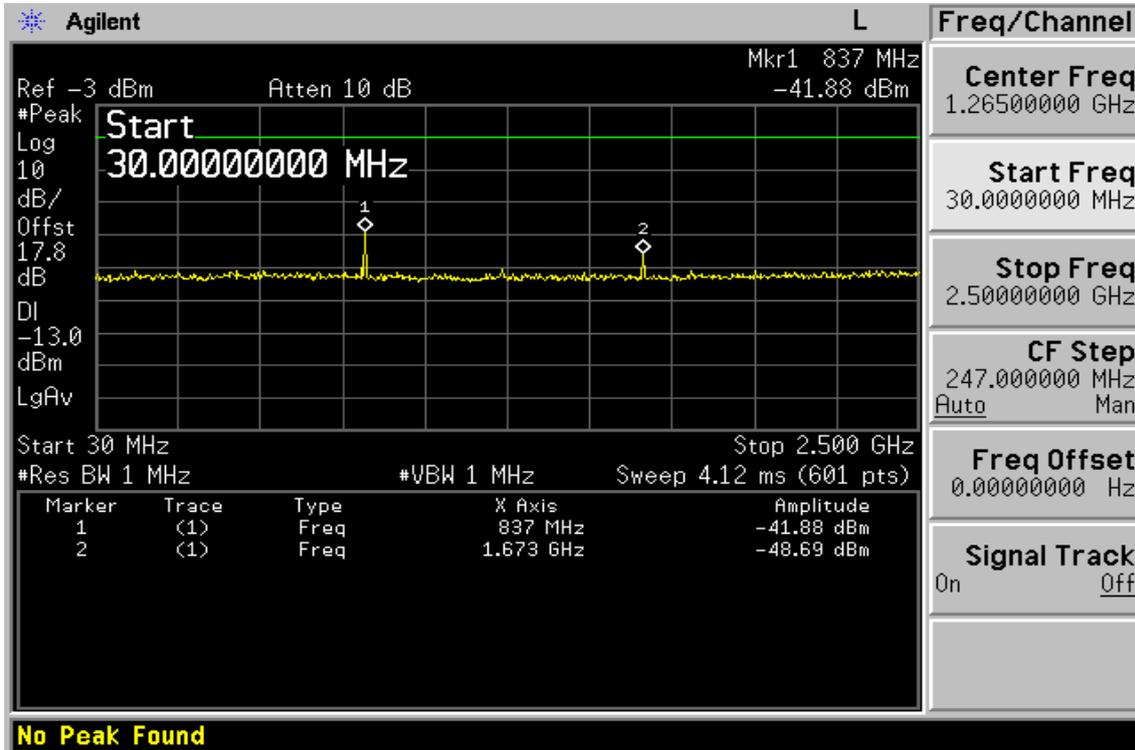
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Figure 8-11: Out of Band emission at antenna terminals– EDGE 850 Channel Lowest



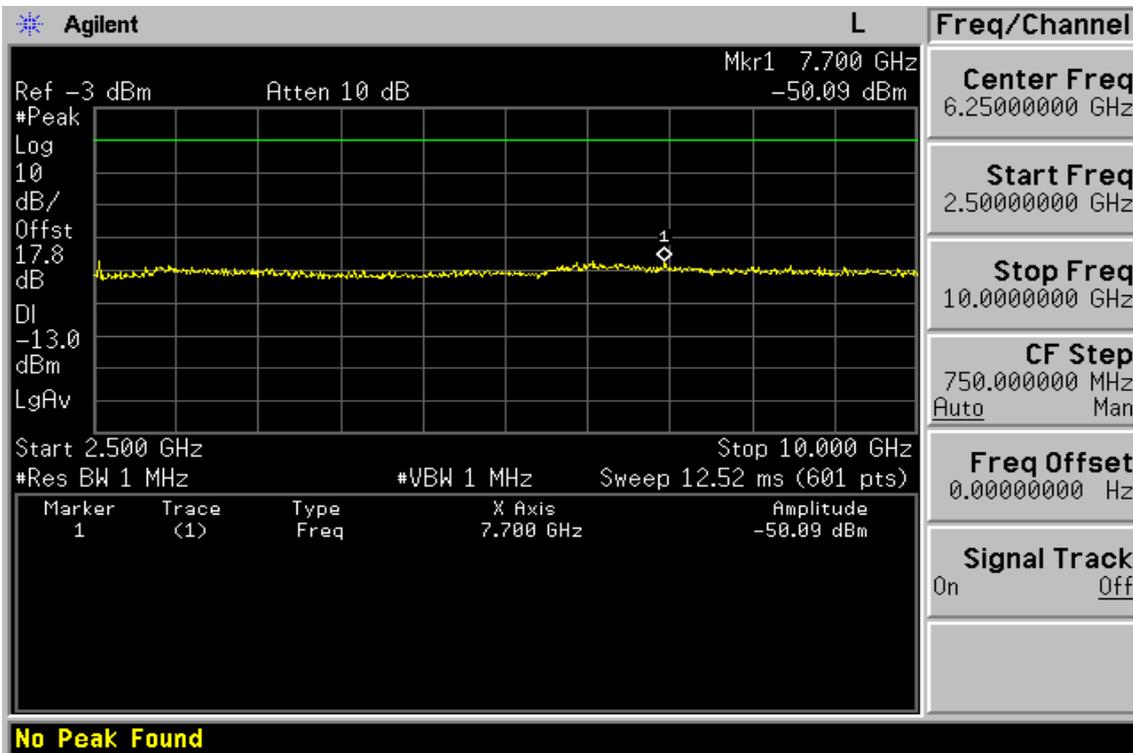
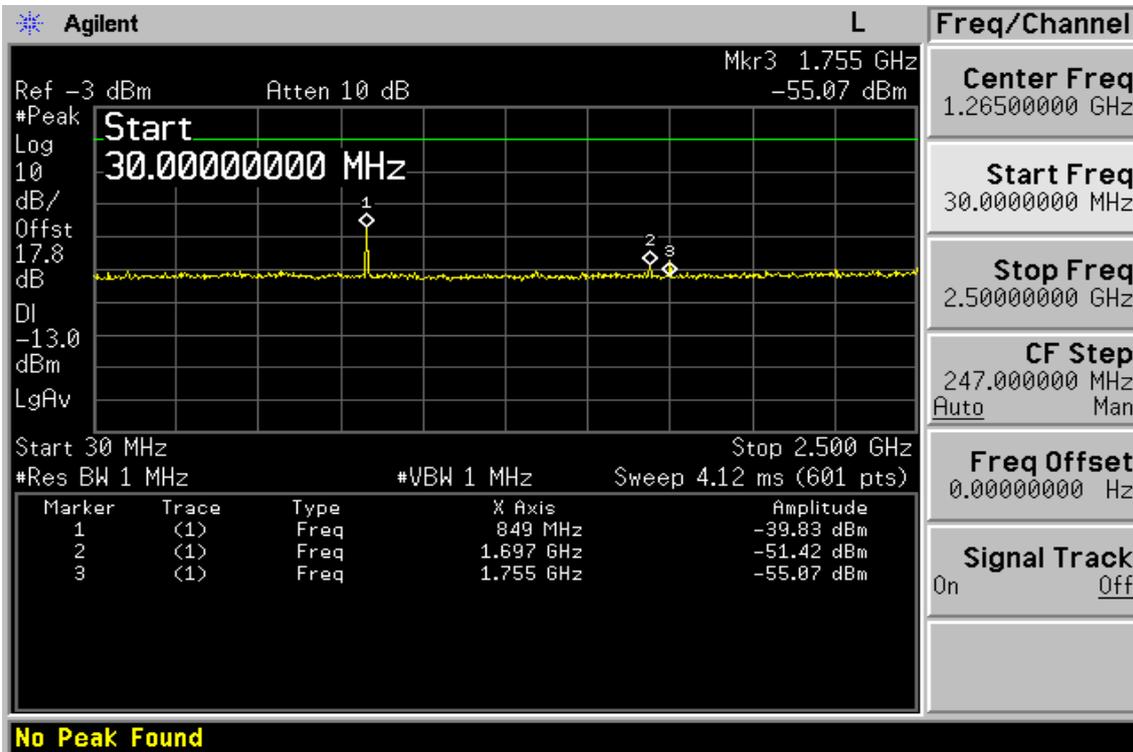
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Figure 8-12: Out of Band emission at antenna terminals –EDGE 850 Channel Mid



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Figure 8-13: Out of Band emission at antenna terminals–EDGE 850 Channel Highest



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Figure 8-14: Band edge emission at antenna terminals – EDGE 850 Channel Lowest

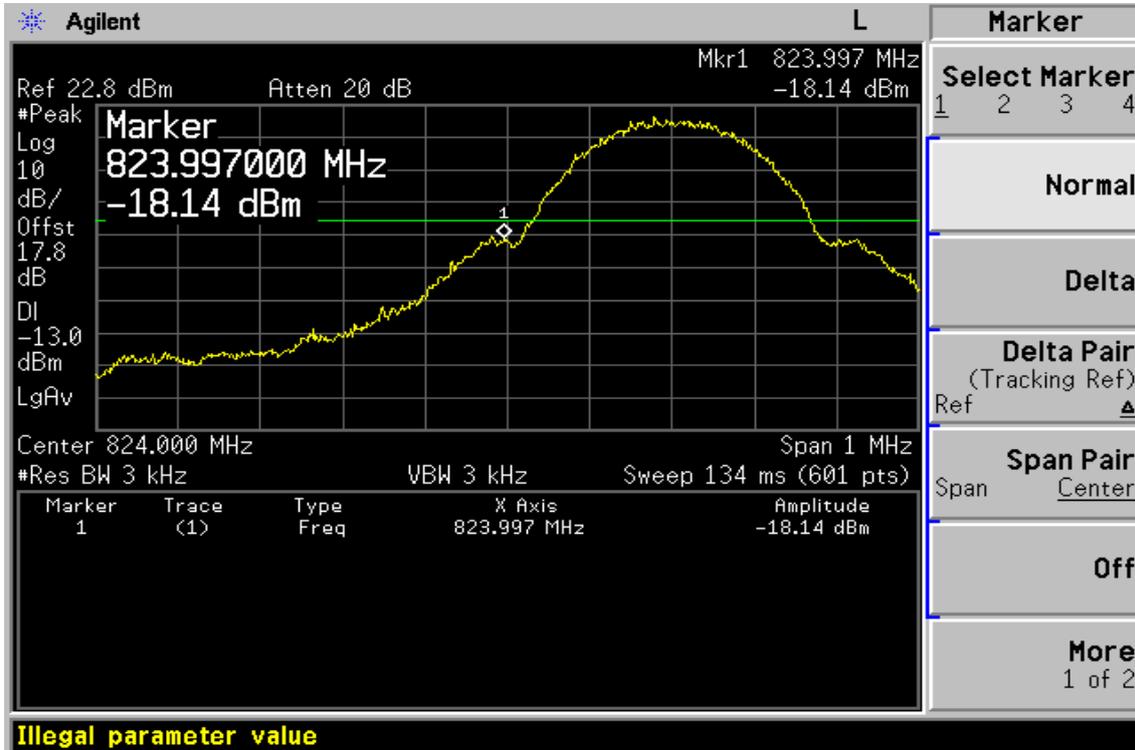
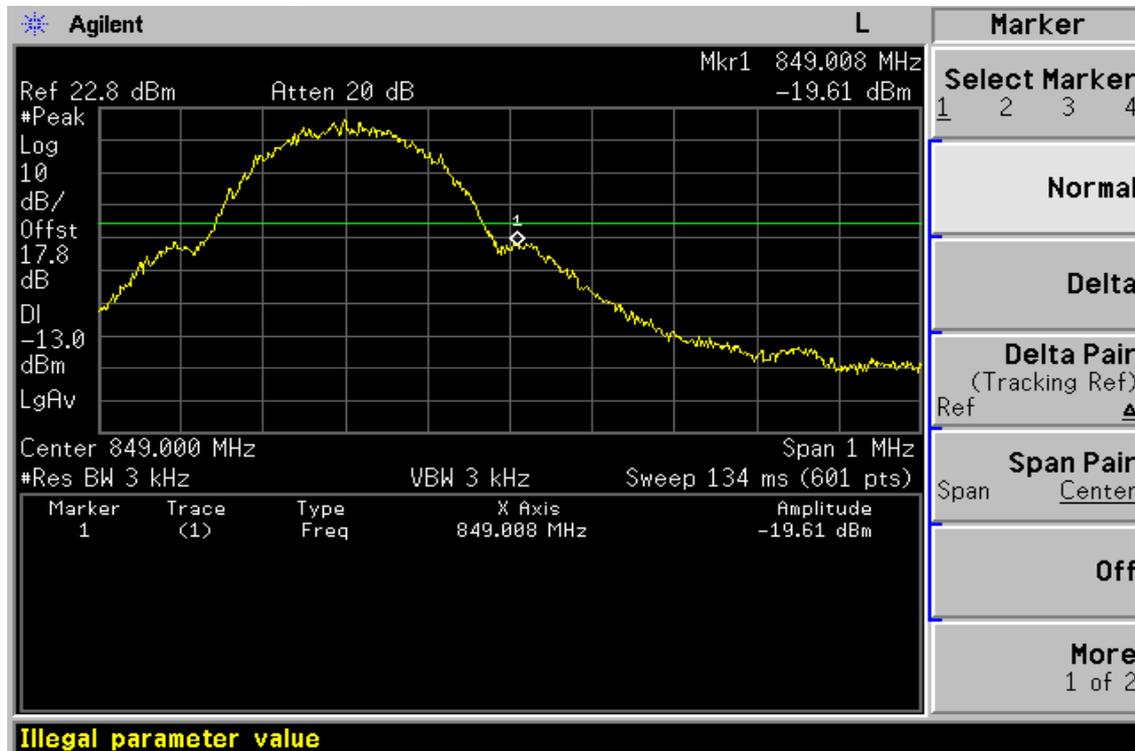
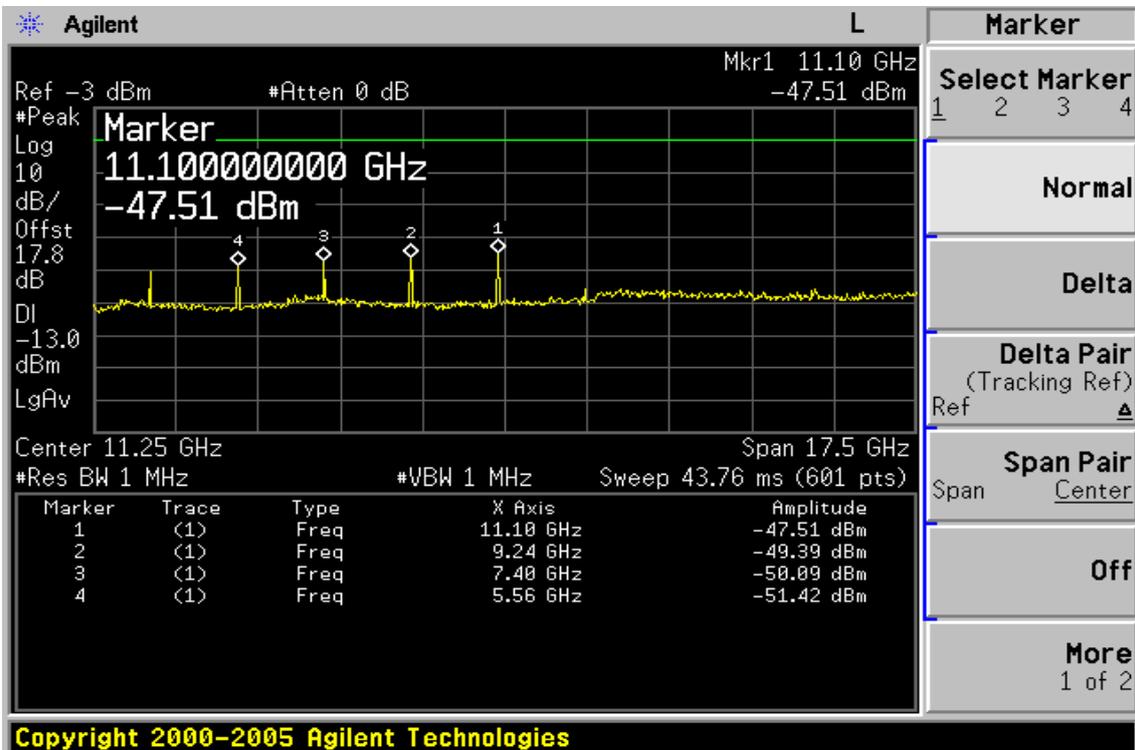
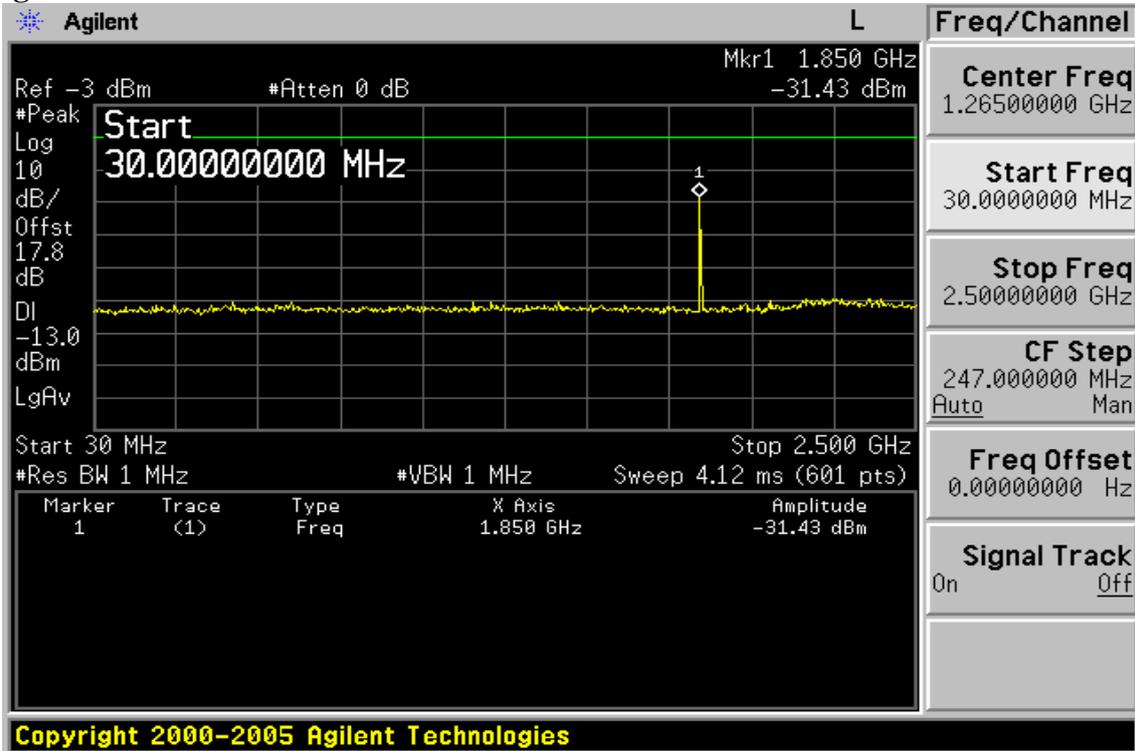


Figure 8-15: Band edge emission at antenna terminals – EDGE 850 Channel Highest



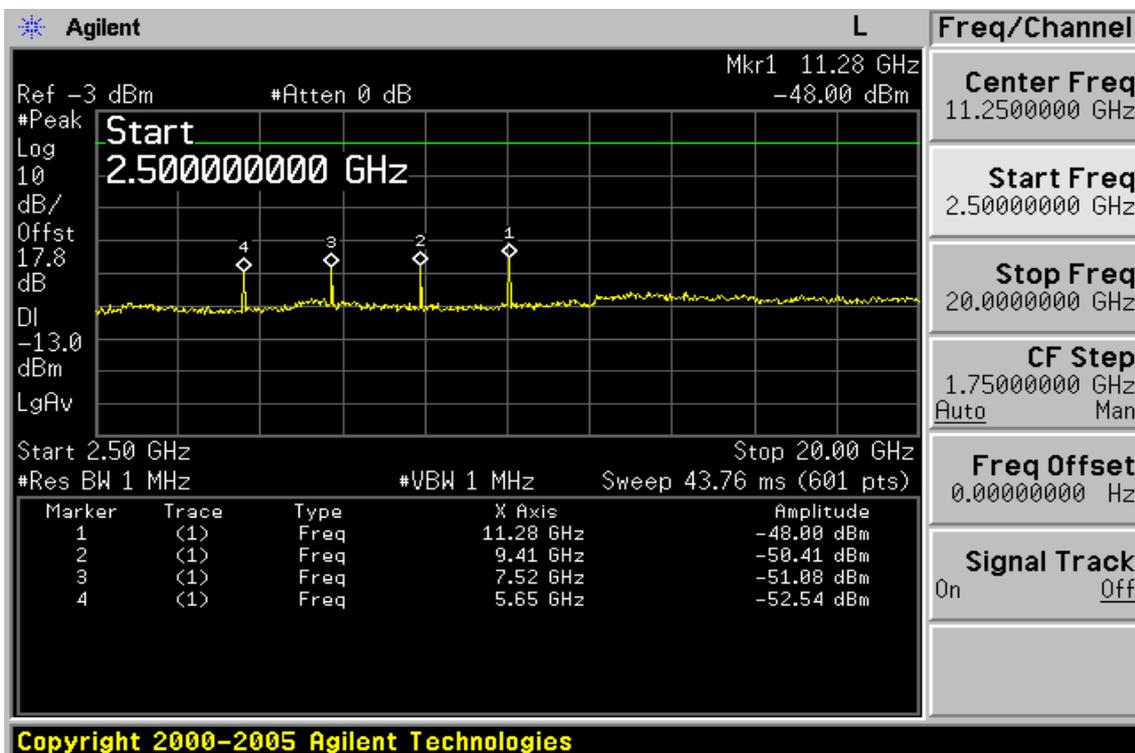
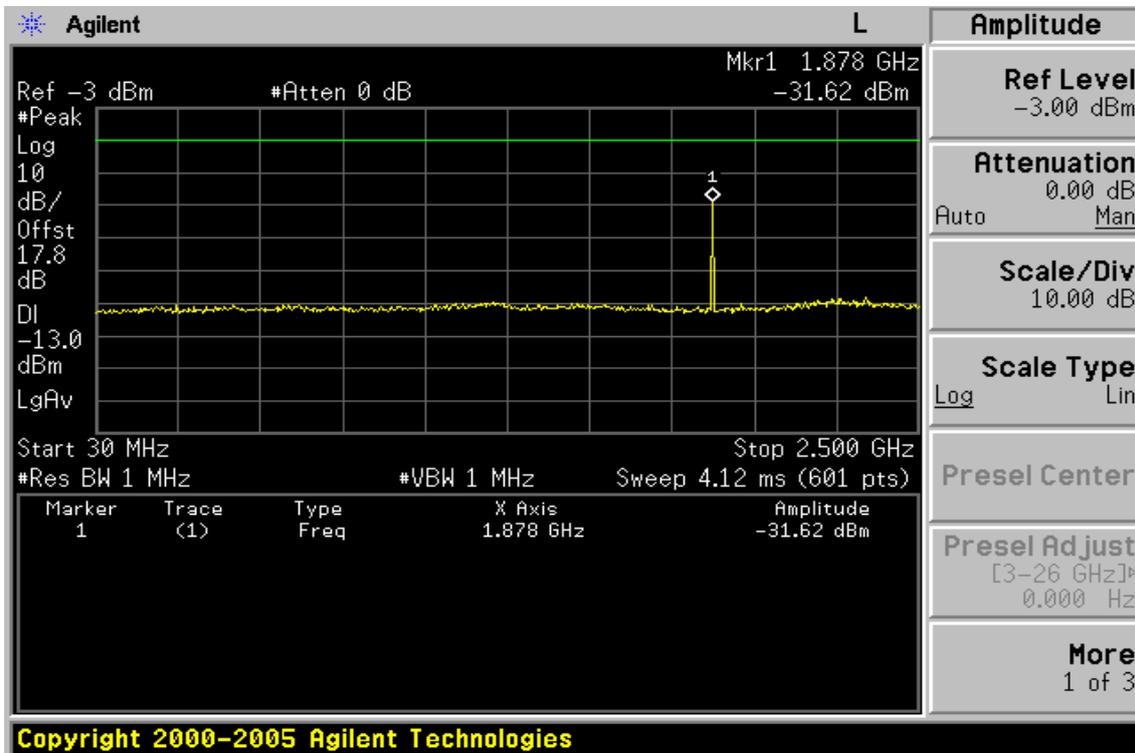
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Figure 8-16: Out of Band emission at antenna terminals– EDGE1900 Channel Lowest



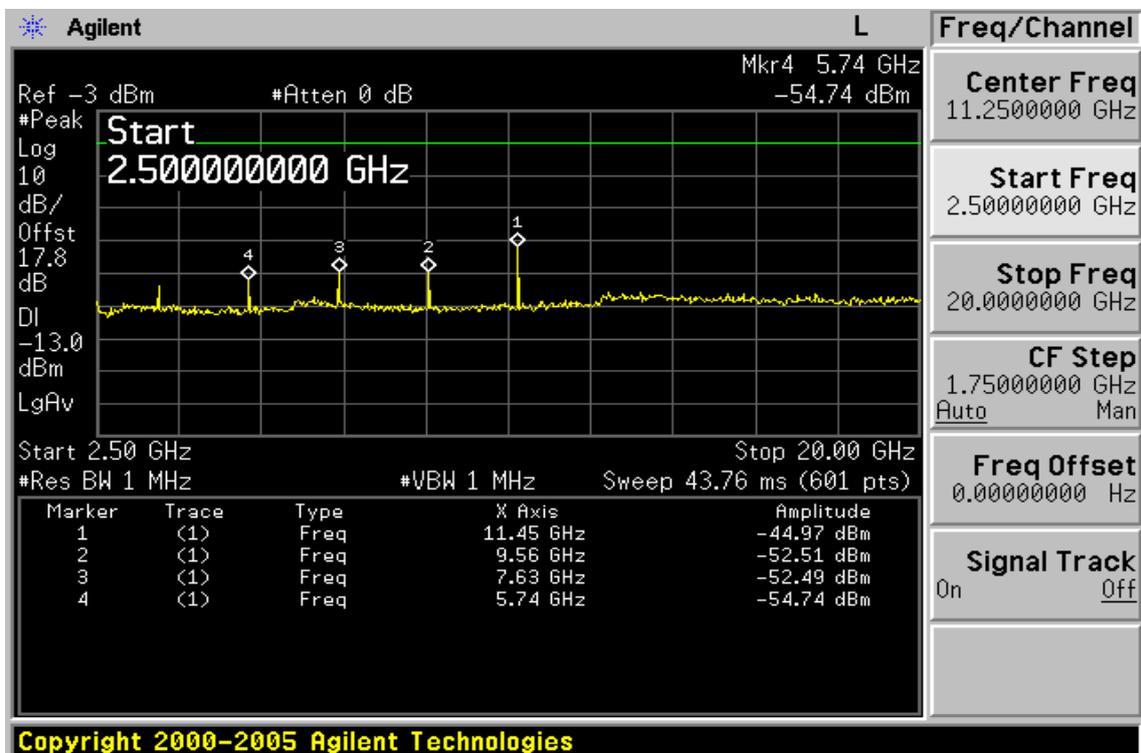
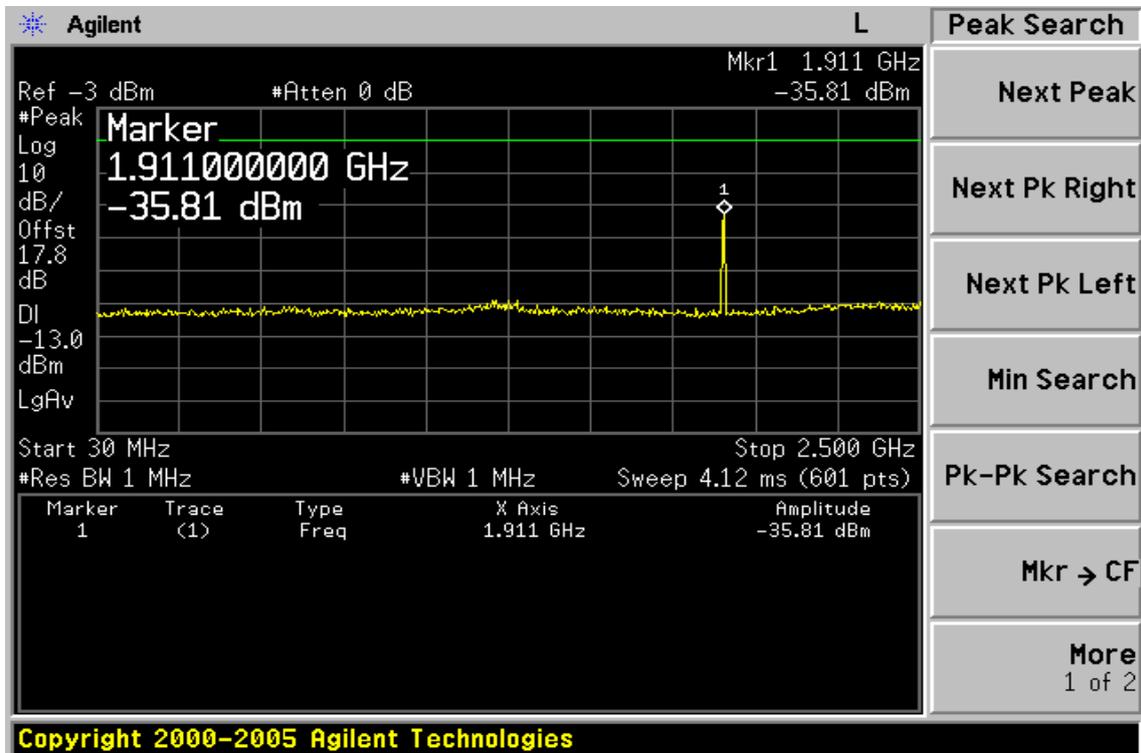
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Figure 8-17: Out of Band emission at antenna terminals –EDGE1900 Channel Mid



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Figure 8-18: Out of Band emission at antenna terminals–EDGE1900 Channel Highest

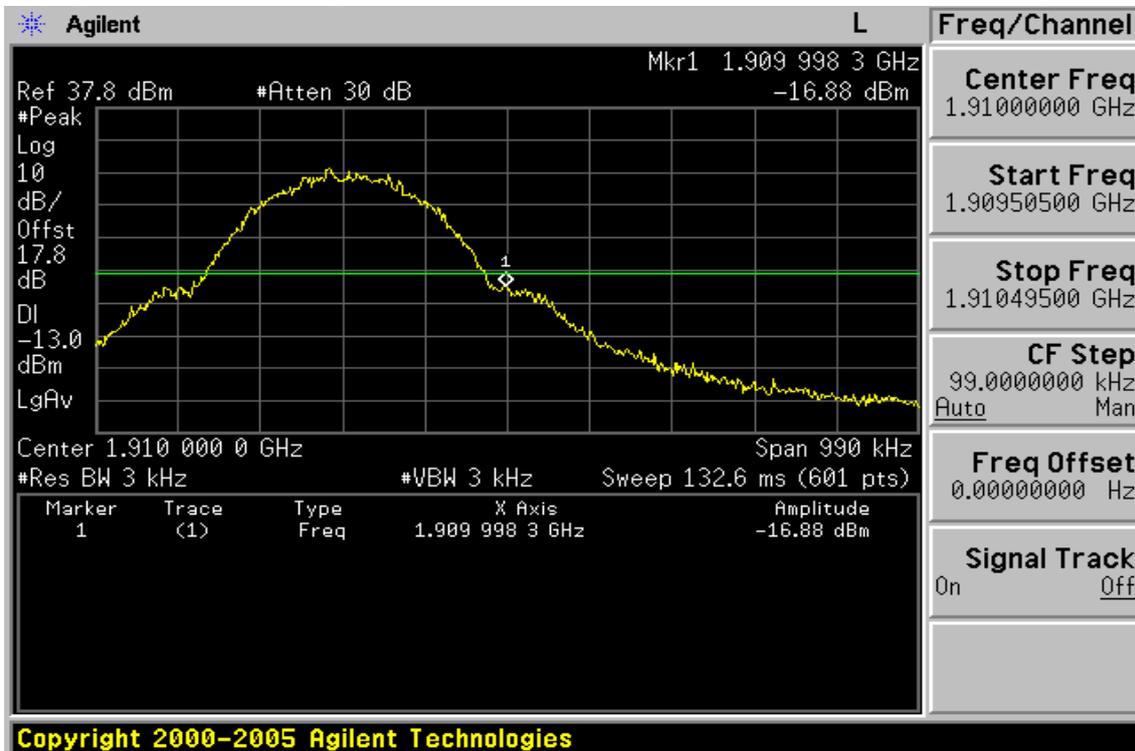


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Figure 8-19: Bad edge emission at antenna terminals –EDGE1900 Channel Lowest

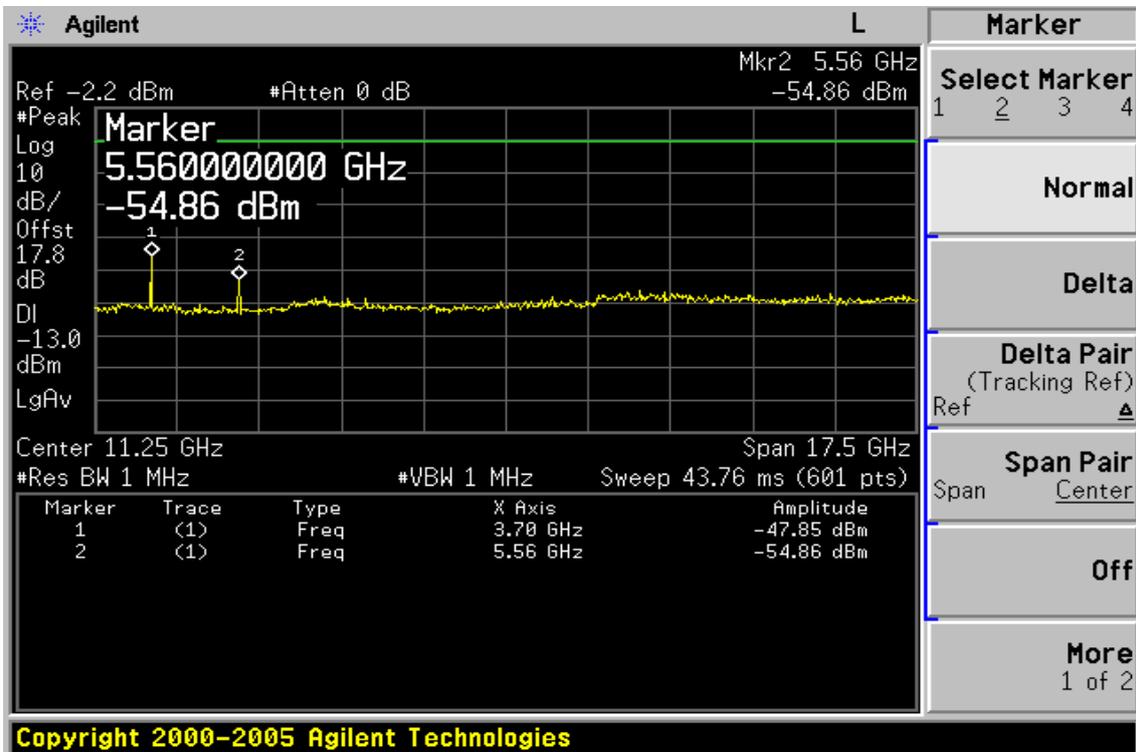
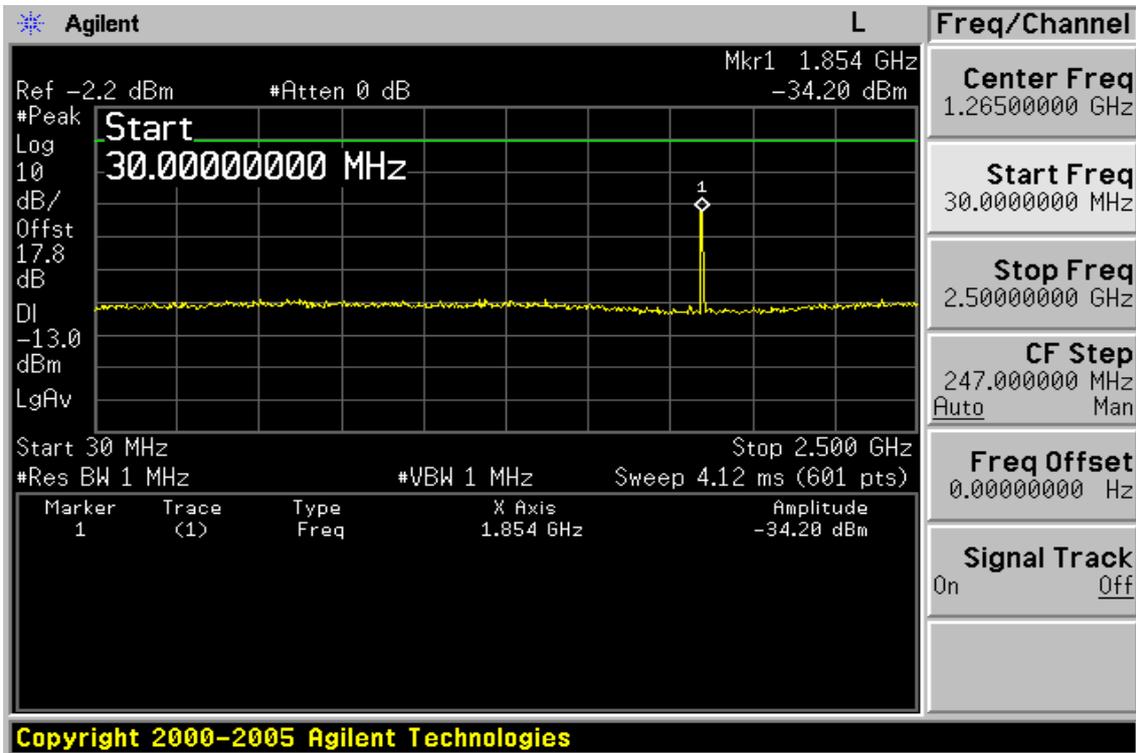


Figure 8-20: Band edge emission at antenna terminals – PCS Channel Highest



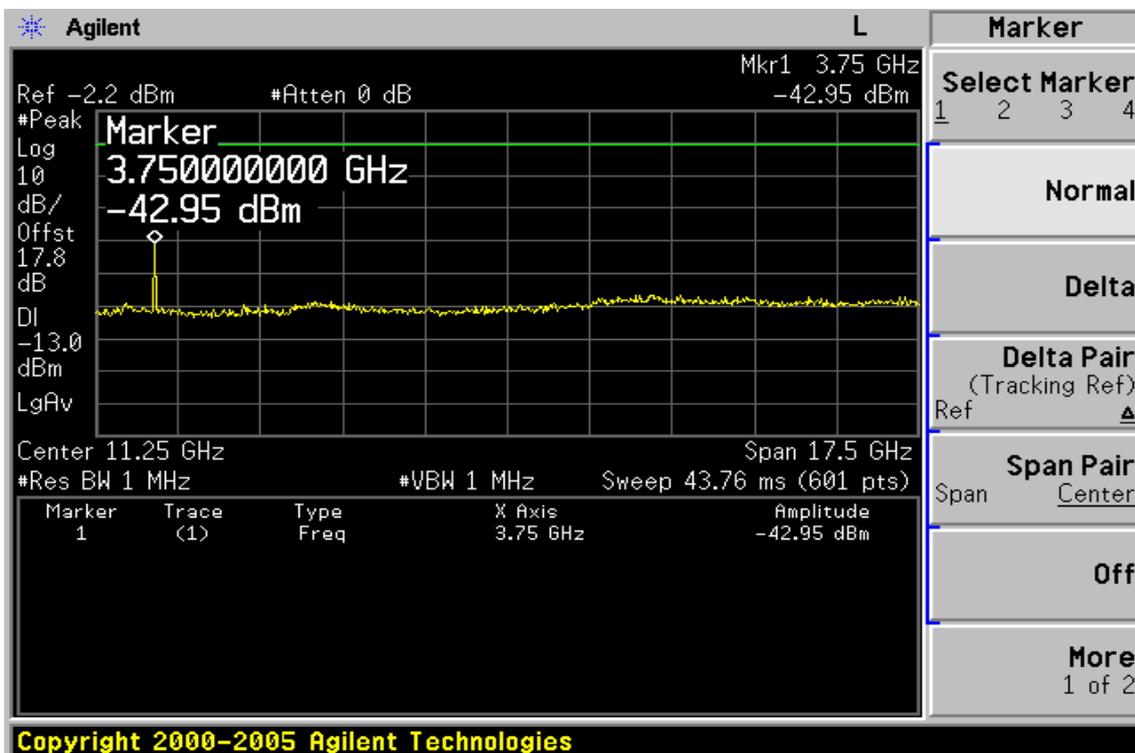
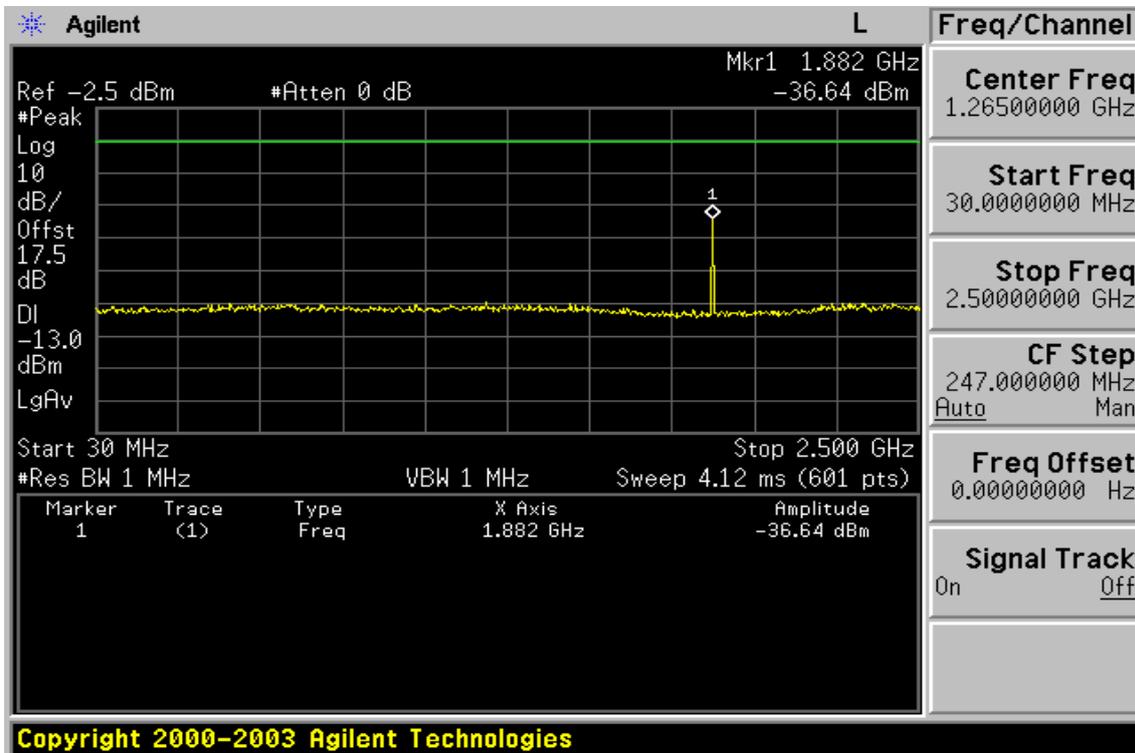
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Figure 8-21: Out of Band emission at antenna terminals– WCDMA Band II Channel Lowest



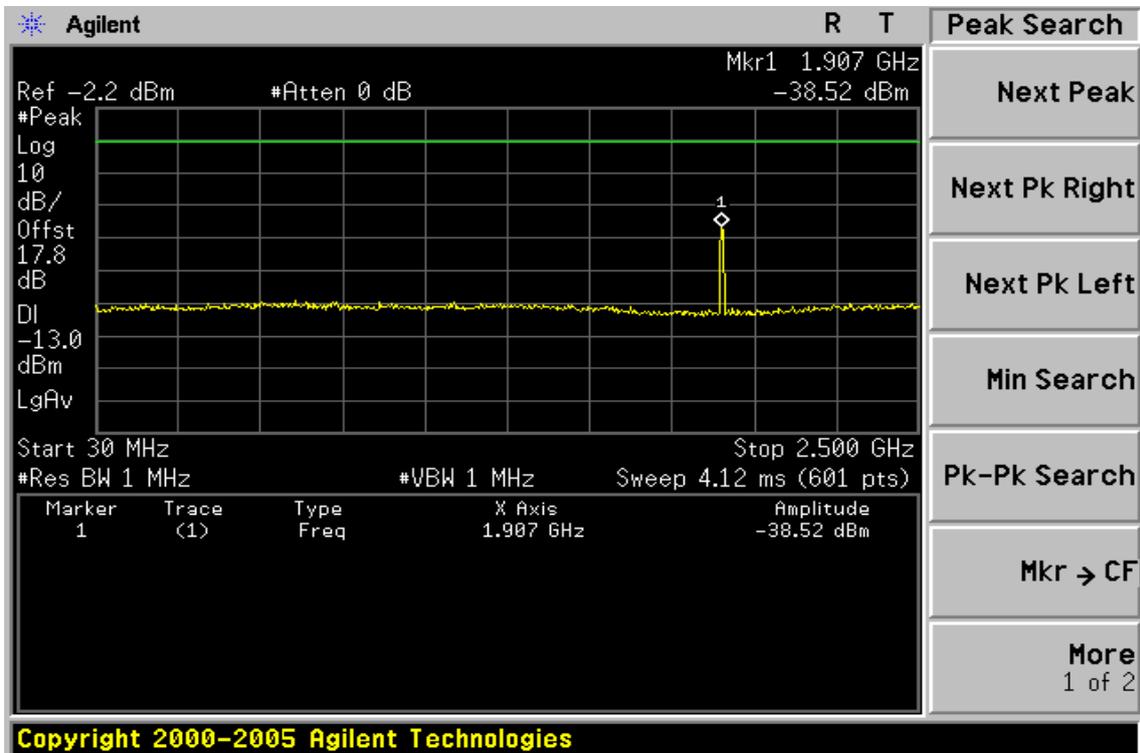
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Figure 8-22: Out of Band emission at antenna terminals –WCDMA Band II Channel Mid



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Figure 8-23: Out of Band emission at antenna terminals–WCDMA BAND II Channel Highest



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Figure 8-24: Bad edge emission at antenna terminals – WCDMA BAND II Channel Lowest

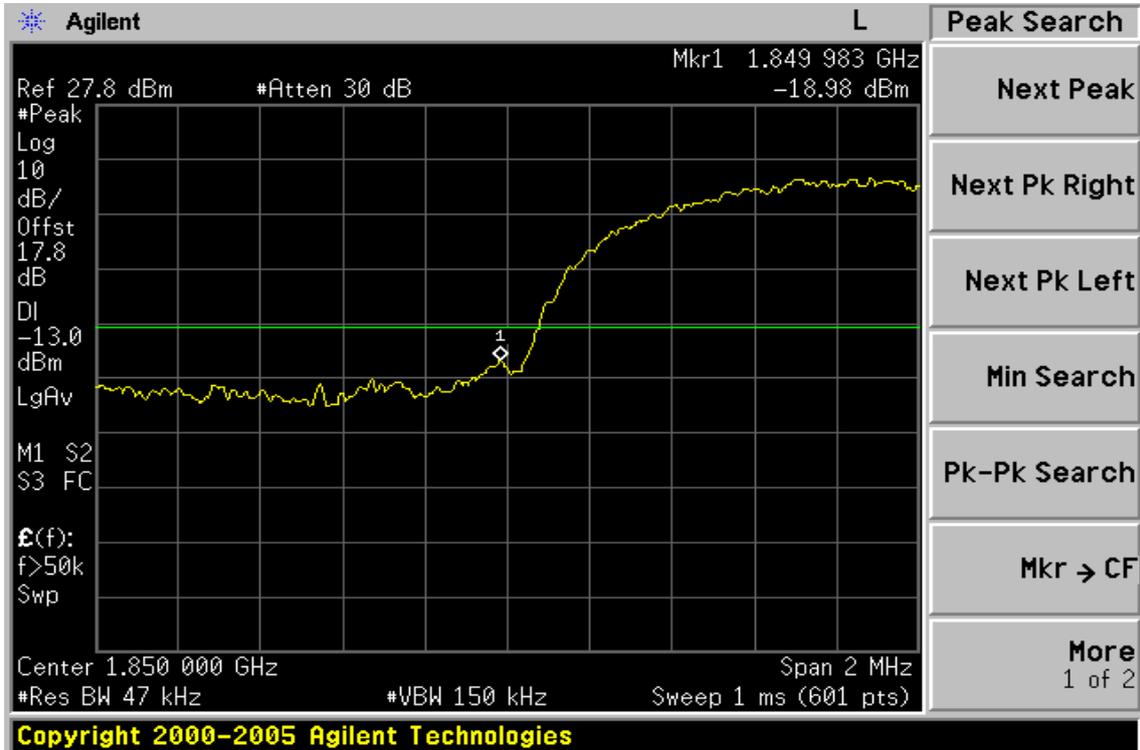
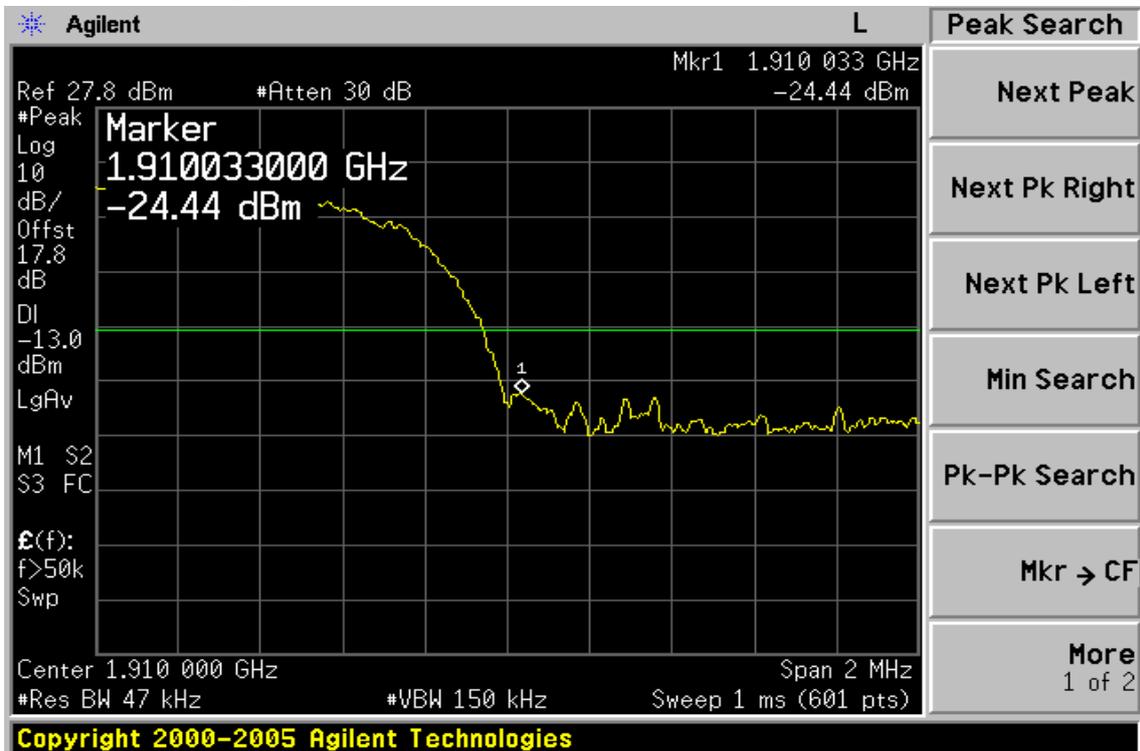
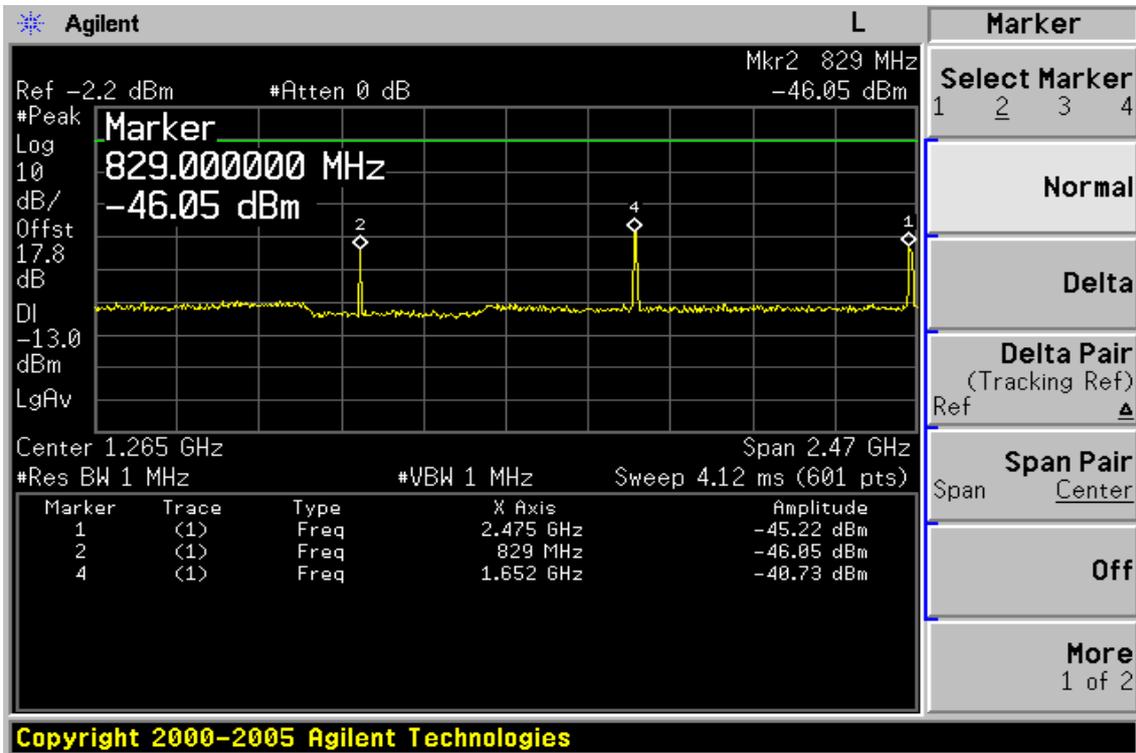


Figure 8-25: Band edge emission at antenna terminals –WCDMA BAND II Channel Highest



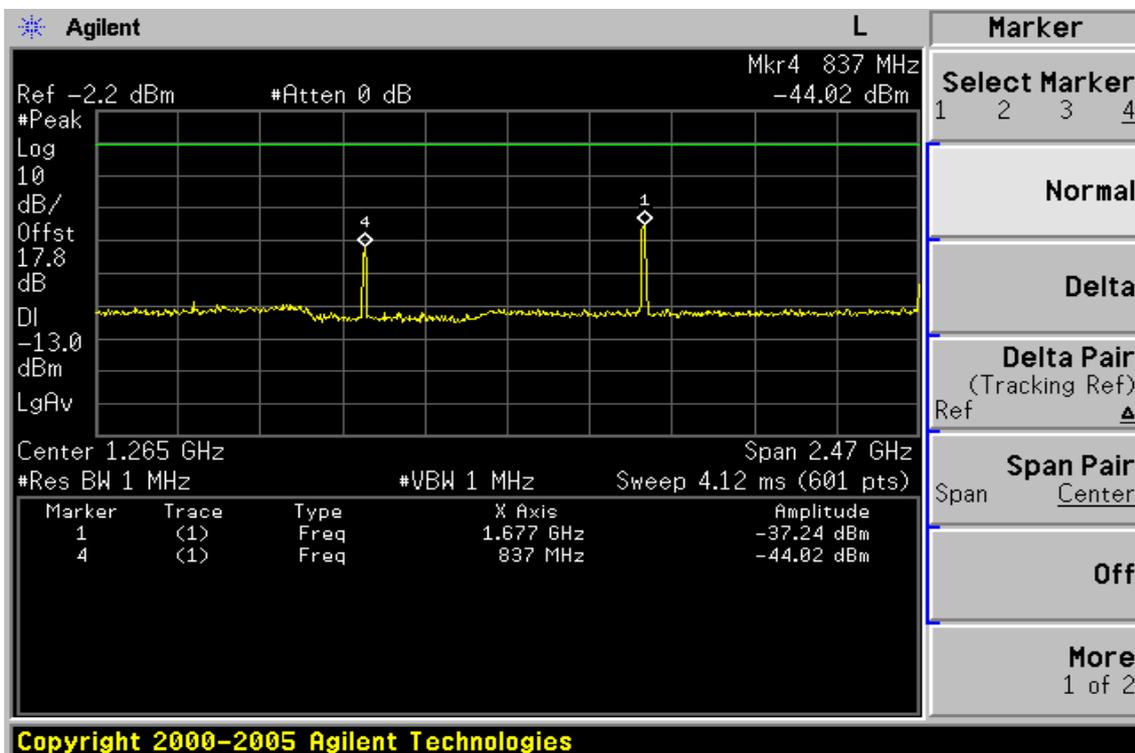
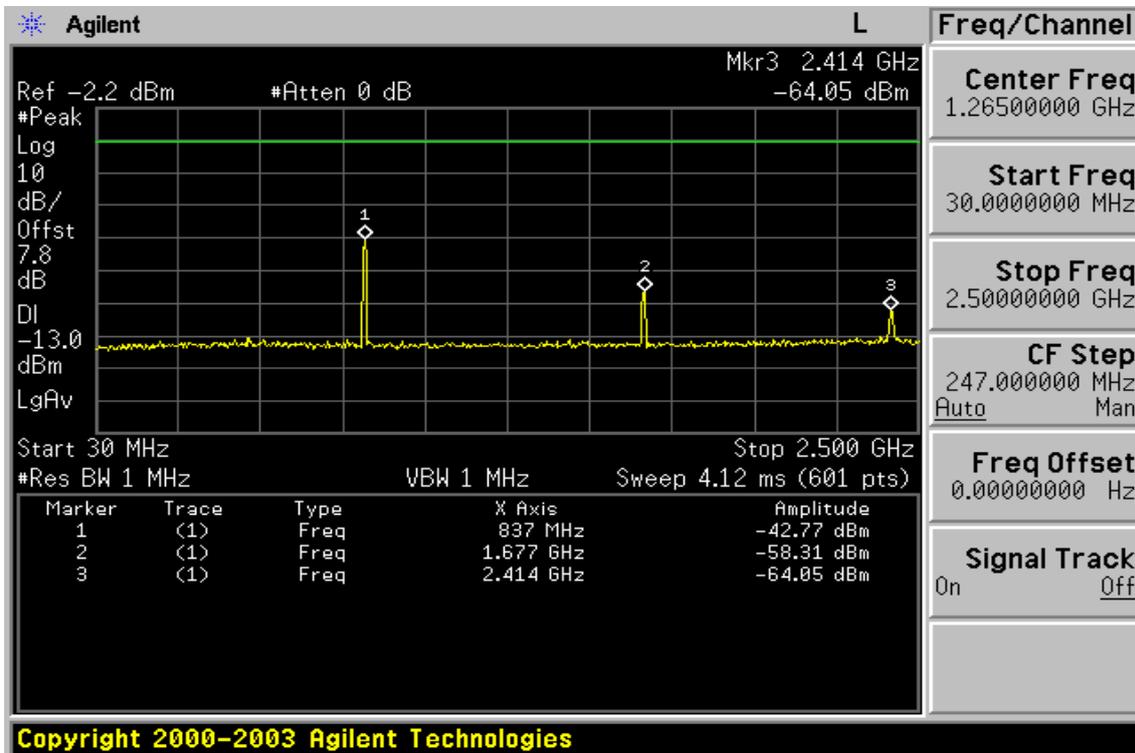
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Figure 8-26: Out of Band emission at antenna terminals– WCDMA Band V Channel Lowest



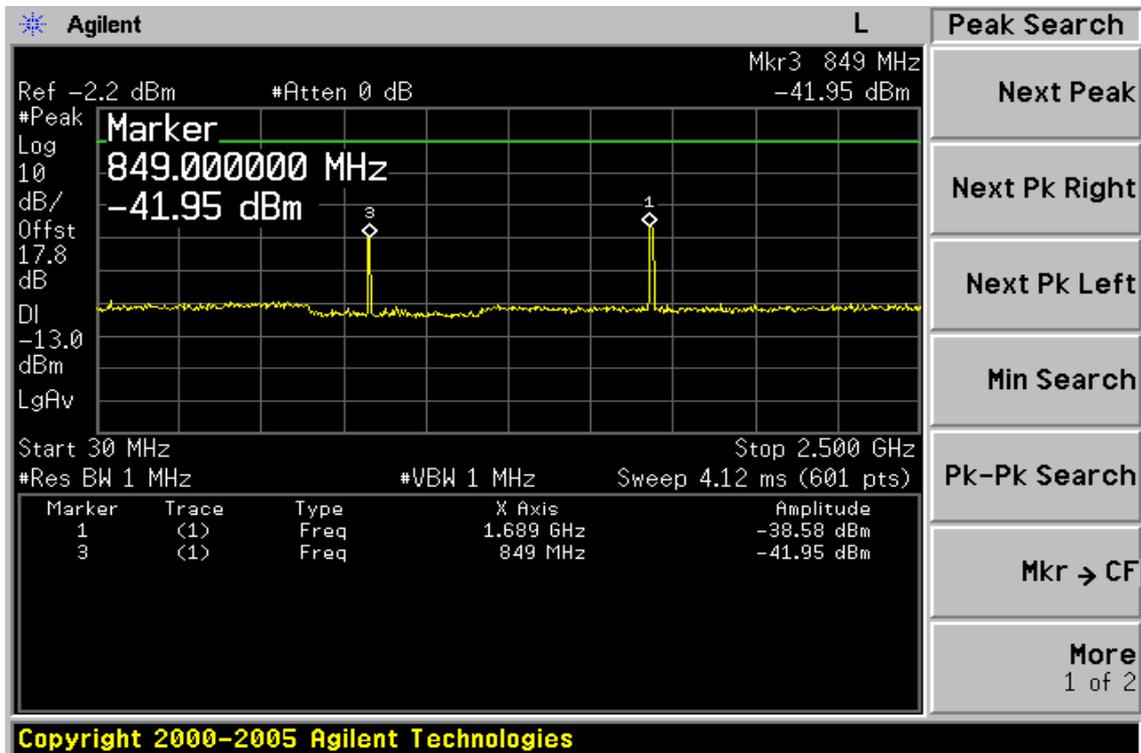
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Figure 8-27: Out of Band emission at antenna terminals –WCDMA Band V Channel Mid



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Figure 8-28: Out of Band emission at antenna terminals–WCDMA BAND V Channel Highest



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Figure 8-29: Bad edge emission at antenna terminals – WCDMA BAND V Channel Lowest

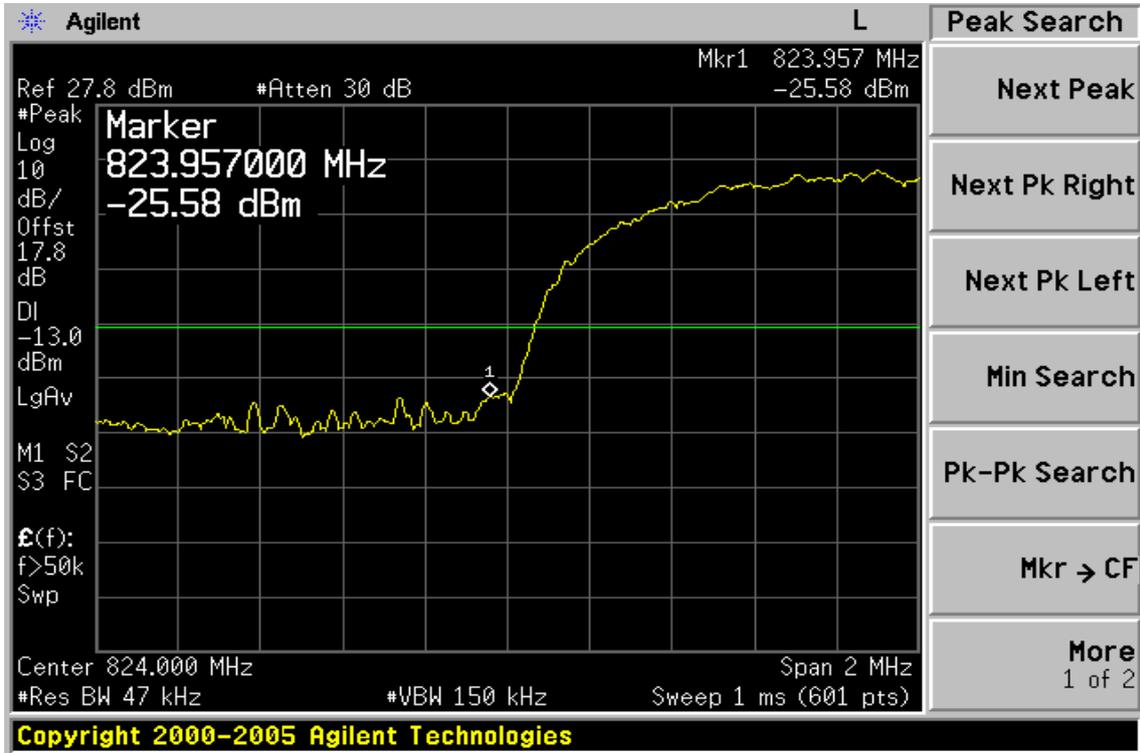
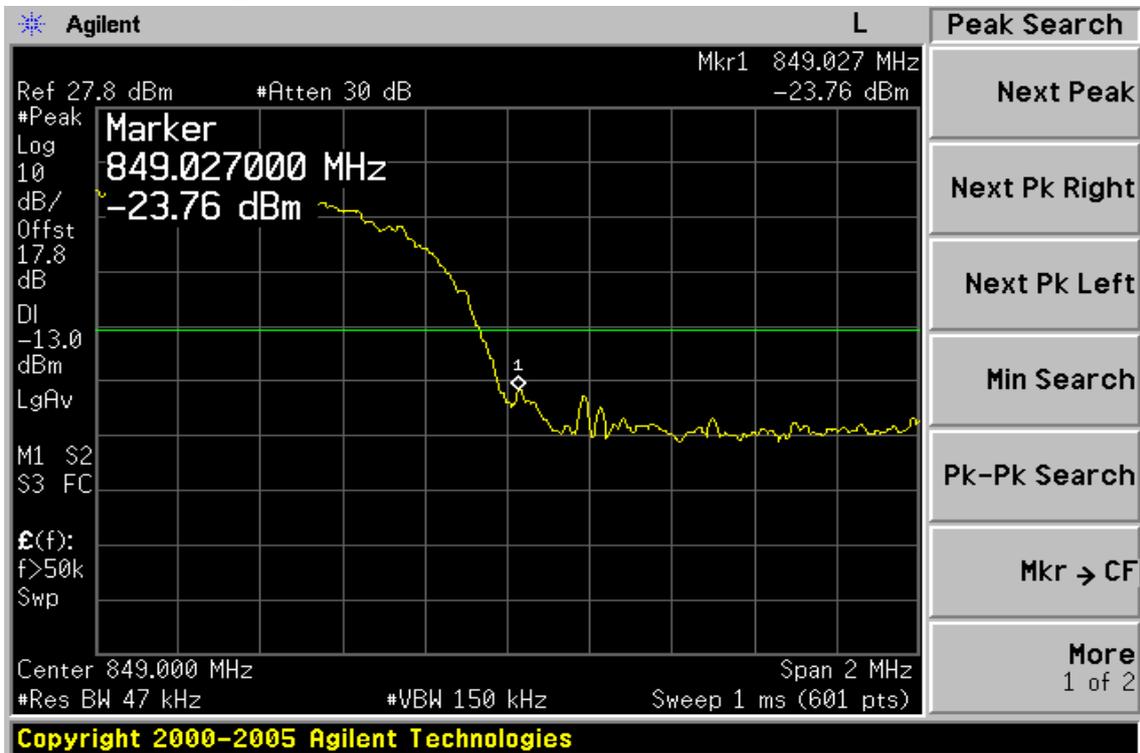


Figure 8-30: Band edge emission at antenna terminals – WCDMA BAND V Channel Highest



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9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

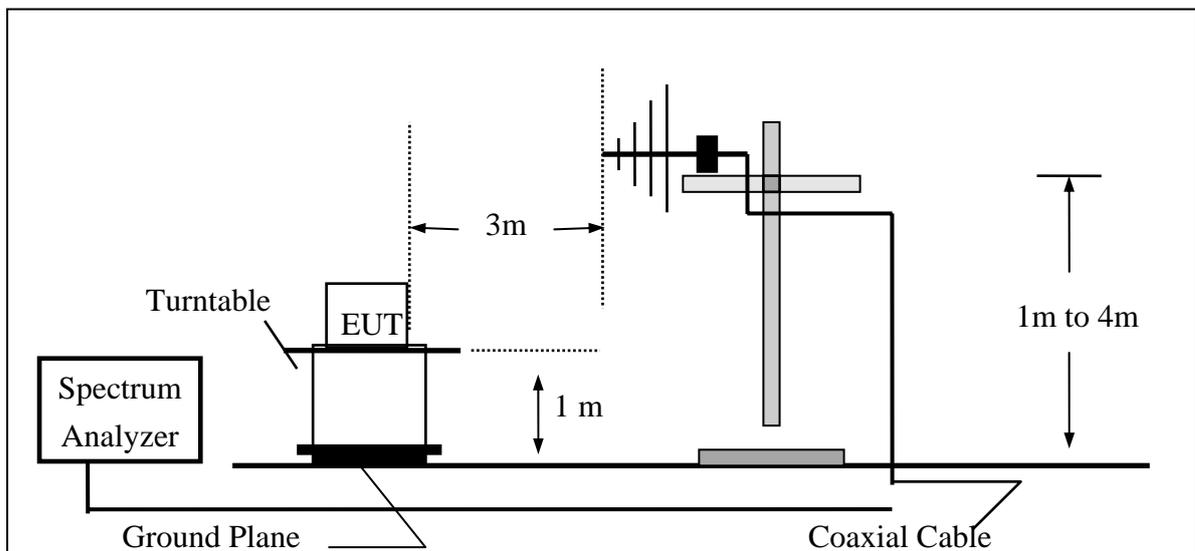
9.1 Standard Applicable

According to FCC §2.1053,

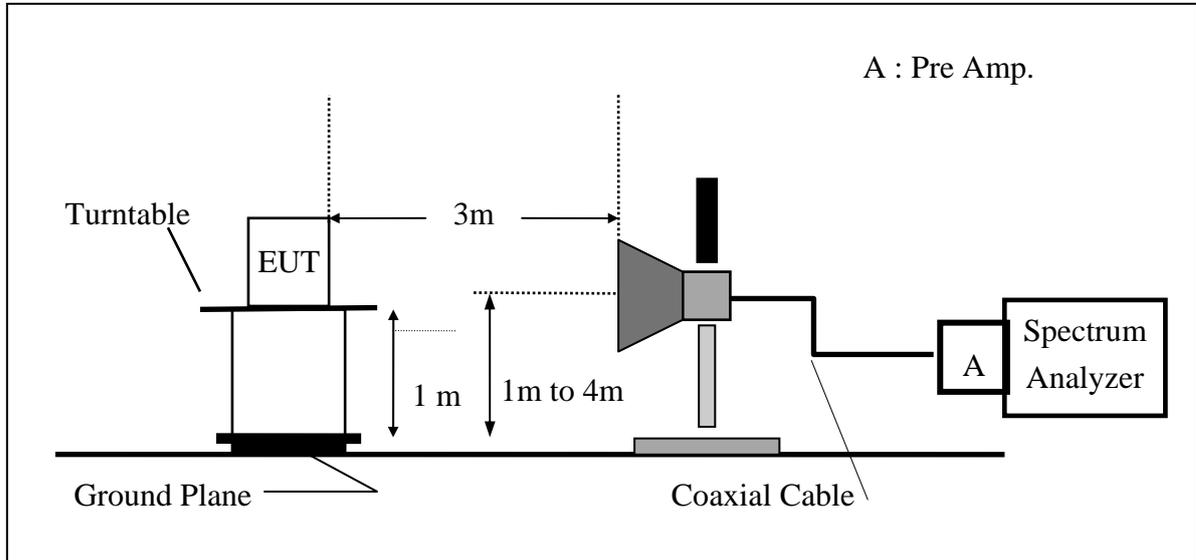
FCC §22.917(a), §24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean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

9.2 EUT Setup (Block Diagram of Configuration)

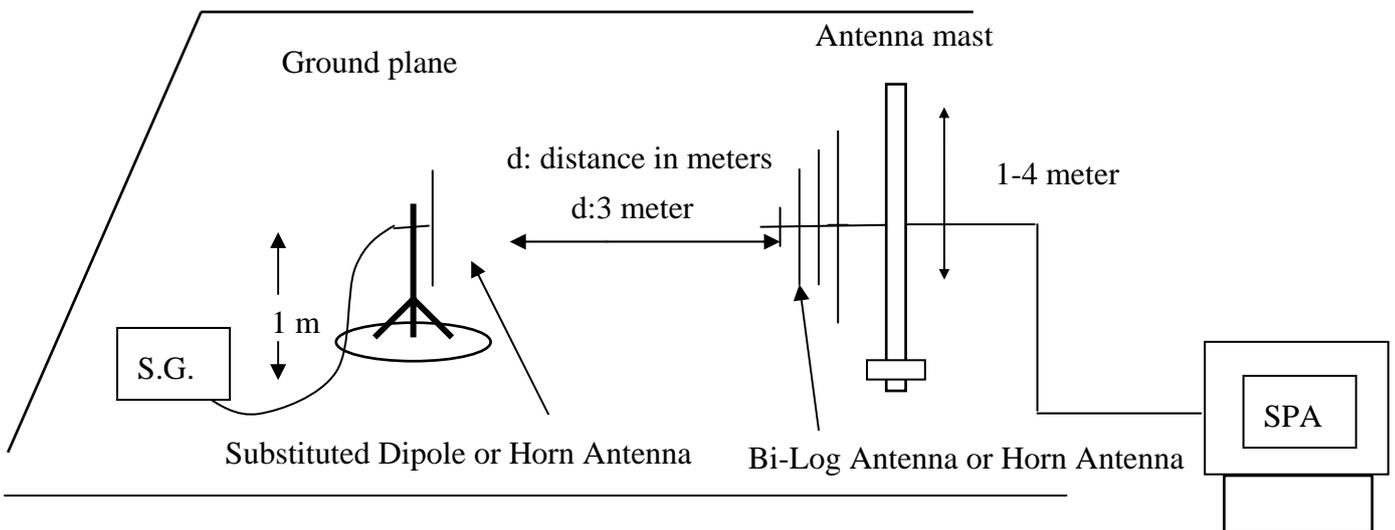
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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



(C) Substituted Method Test Set-UP



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9.3 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 were identified, the power of the emission was determined using the substitution method.

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

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

9.4 Measurement Equipment Used:

| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
|--------------------|--------------|----------------------|---------------|------------|------------|
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/27/2007 | 04/26/2008 |
| Spectrum Analyzer | Agilent | E7405A | US41160416 | 07/04/2007 | 07/03/2008 |
| Communication Test | R&S | SMU200 | N/A | N/A | N/A |
| Bi-log Antenna | SCHWAZBECK | VULB9160 | 3224 | 11/14/2007 | 11/13/2008 |
| Horn antenna | SCHWAZBECK | BBHA 9120D | 309/320 | 08/16/2007 | 08/15/2008 |
| Pre-Amplifier | HP | 8447D | 2944A09469 | 07/19/2007 | 07/18/2008 |
| Pre-Amplifier | HP | 8494B | 3008A00578 | 02/26/2008 | 02/25/2009 |
| Signal Generator | R&S | SMR40 | 100210 | 02/09/2008 | 02/10/2009 |
| Turn Table | HD | DT420 | N/A | N.C.R | N.C.R |
| Antenna Tower | HD | MA240-N | 240/657 | N.C.R | N.C.R |
| Controller | HD | HD100 | N/A | N.C.R | N.C.R |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA-10M | 10m | 10/09/2007 | 10/08/2008 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA-3M | 3m | 10/09/2007 | 10/08/2008 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA-0.5M | 0.5m | 10/09/2007 | 10/08/2008 |
| Site NSA | SGS | 966 chamber | N/A | 11/17/2007 | 11/16/2008 |
| Attenuator | Mini-Circuit | BW-S10W5 | N/A | 09/23/2007 | 09/22/2008 |
| Dipole Antenna | SCHWAZBECK | VHAP | 908/909 | 06/09/2007 | 06/10/2008 |
| Dipole Antenna | SCHWAZBECK | UHAP | 891/892 | 06/09/2007 | 06/10/2008 |
| Horn antenna | SCHWAZBECK | BBHA 9120D | N/A | 08/16/2007 | 08/15/2008 |

9.5 Measurement Result

Refer to attach tabular data sheets.

Radiated Spurious Emission Measurement Result: GSM 850 Mode

| | | | |
|-----------------------|--------------------|------------|---------------|
| Operation Mode | : TX CH Low H Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 824.20 MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|--------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 96.93 | 43.49 | V | -60.42 | -7.76 | 1.20 | -69.38 | -13.00 | -56.38 |
| 824.00 | 75.48 | V | -11.85 | -7.87 | 3.64 | -23.37 | -13.00 | -10.37 |
| 1648.40 | 55.11 | V | -51.93 | 9.29 | 5.06 | -47.70 | -13.00 | -34.70 |
| 2472.60 | 58.32 | V | -45.74 | 10.08 | 6.30 | -41.97 | -13.00 | -28.97 |
| 3296.80 | --- | V | | 12.17 | 7.26 | | -13.00 | |
| 4121.00 | 40.60 | V | -59.18 | 12.61 | 8.33 | -54.89 | -13.00 | -41.89 |
| 4945.20 | --- | V | | 12.65 | 9.19 | | -13.00 | |
| 5769.40 | --- | V | | 13.55 | 9.80 | | -13.00 | |
| 6593.60 | --- | V | | 12.05 | 10.61 | | -13.00 | |
| 7417.80 | --- | V | | 11.49 | 11.28 | | -13.00 | |
| 8242.00 | --- | V | | 11.48 | 12.26 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: GSM 850 Mode

| | | | |
|-----------------------|--------------------|------------|---------------|
| Operation Mode | : TX CH Low H Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 824.20 MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|--------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 67.83 | 41.23 | H | -70.83 | -0.95 | 1.00 | -72.77 | -13.00 | -59.77 |
| 824.00 | 69.46 | H | -18.20 | -7.87 | 3.64 | -29.72 | -13.00 | -16.72 |
| 1648.40 | 50.61 | H | -56.40 | 9.29 | 5.06 | -52.17 | -13.00 | -39.17 |
| 2472.60 | 43.01 | H | -61.05 | 10.08 | 6.30 | -57.27 | -13.00 | -44.27 |
| 3296.80 | --- | H | | 12.17 | 7.26 | | -13.00 | |
| 4121.00 | 39.91 | H | -59.74 | 12.61 | 8.33 | -55.45 | -13.00 | -42.45 |
| 4945.20 | --- | H | | 12.65 | 9.19 | | -13.00 | |
| 5769.40 | --- | H | | 13.55 | 9.80 | | -13.00 | |
| 6593.60 | --- | H | | 12.05 | 10.61 | | -13.00 | |
| 7417.80 | --- | H | | 11.49 | 11.28 | | -13.00 | |
| 8242.00 | --- | H | | 11.48 | 12.26 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: GSM 850 Mode

| | | | |
|-----------------------|--------------------|------------|---------------|
| Operation Mode | : TX CH Mid H Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 836.60 MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 96.93 | 43.90 | V | -60.01 | -7.76 | 1.20 | -68.97 | -13.00 | -55.97 |
| 1673.20 | 57.24 | V | -49.79 | 9.36 | 5.10 | -45.53 | -13.00 | -32.53 |
| 2509.80 | 59.11 | V | -44.77 | 10.09 | 6.35 | -41.03 | -13.00 | -28.03 |
| 3346.40 | --- | V | | 12.28 | 7.29 | | -13.00 | |
| 4183.00 | 37.83 | V | -61.73 | 12.62 | 8.40 | -57.51 | -13.00 | -44.51 |
| 5019.60 | --- | V | | 12.67 | 9.26 | | -13.00 | |
| 5856.20 | --- | V | | 13.68 | 9.85 | | -13.00 | |
| 6692.80 | --- | V | | 11.95 | 10.74 | | -13.00 | |
| 7529.40 | --- | V | | 11.45 | 11.35 | | -13.00 | |
| 8366.00 | --- | V | | 11.59 | 12.43 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: GSM 850 Mode

| | | | |
|-----------------------|--------------------|------------|---------------|
| Operation Mode | : TX CH Mid H Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 836.60 MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 75.59 | 42.53 | H | -69.83 | -1.85 | 1.05 | -72.73 | -13.00 | -59.73 |
| 1673.20 | 49.16 | H | -57.84 | 9.36 | 5.10 | -53.57 | -13.00 | -40.57 |
| 2509.80 | 49.84 | H | -54.03 | 10.09 | 6.35 | -50.29 | -13.00 | -37.29 |
| 3346.40 | 38.21 | H | -64.11 | 12.28 | 7.29 | -59.13 | -13.00 | -46.13 |
| 4183.00 | --- | H | | 12.62 | 8.40 | | -13.00 | |
| 5019.60 | --- | H | | 12.67 | 9.26 | | -13.00 | |
| 5856.20 | --- | H | | 13.68 | 9.85 | | -13.00 | |
| 6692.80 | --- | H | | 11.95 | 10.74 | | -13.00 | |
| 7529.40 | --- | H | | 11.45 | 11.35 | | -13.00 | |
| 8366.00 | --- | H | | 11.59 | 12.43 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: GSM 850 Mode

| | | | |
|-----------------------|---------------------|------------|---------------|
| Operation Mode | : TX CH High H Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 848.80 MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 96.93 | 44.17 | V | -59.74 | -7.76 | 1.20 | -68.70 | -13.00 | -55.70 |
| 850.00 | 74.95 | V | -11.76 | -7.88 | 3.75 | -23.39 | -13.00 | -10.39 |
| 1697.60 | 55.37 | V | -51.65 | 9.44 | 5.14 | -47.36 | -13.00 | -34.36 |
| 2546.40 | 57.01 | V | -46.78 | 10.20 | 6.40 | -42.98 | -13.00 | -29.98 |
| 3395.20 | --- | V | | 12.38 | 7.33 | | -13.00 | |
| 4244.00 | --- | V | | 12.63 | 8.46 | | -13.00 | |
| 5092.80 | --- | V | | 12.74 | 9.32 | | -13.00 | |
| 5941.60 | --- | V | | 13.81 | 9.89 | | -13.00 | |
| 6790.40 | --- | V | | 11.86 | 10.87 | | -13.00 | |
| 7639.20 | --- | V | | 11.40 | 11.48 | | -13.00 | |
| 8488.00 | --- | V | | 11.70 | 12.59 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: GSM 850 Mode

| | | | |
|-----------------------|---------------------|------------|---------------|
| Operation Mode | : TX CH High H Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 848.80 MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 75.59 | 42.78 | H | -69.58 | -1.85 | 1.05 | -72.48 | -13.00 | -59.48 |
| 850.00 | 66.82 | H | -20.17 | -7.88 | 3.75 | -31.80 | -13.00 | -18.80 |
| 1697.60 | 48.68 | H | -58.30 | 9.44 | 5.14 | -54.01 | -13.00 | -41.01 |
| 2546.40 | 43.11 | H | -60.67 | 10.20 | 6.40 | -56.87 | -13.00 | -43.87 |
| 3395.20 | --- | H | | 12.38 | 7.33 | | -13.00 | |
| 4244.00 | --- | H | | 12.63 | 8.46 | | -13.00 | |
| 5092.80 | --- | H | | 12.74 | 9.32 | | -13.00 | |
| 5941.60 | --- | H | | 13.81 | 9.89 | | -13.00 | |
| 6790.40 | --- | H | | 11.86 | 10.87 | | -13.00 | |
| 7639.20 | --- | H | | 11.40 | 11.48 | | -13.00 | |
| 8488.00 | --- | H | | 11.70 | 12.59 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

| | | | |
|-----------------------|--------------------|------------|---------------|
| Operation Mode | : TX CH Low H Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 1850.20MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 96.93 | 43.67 | V | -60.24 | -7.76 | 1.20 | -69.20 | -13.00 | -56.20 |
| 1850.00 | 80.24 | V | -26.72 | 9.90 | 5.41 | -22.23 | -13.00 | -9.23 |
| 3700.40 | 37.60 | V | -63.98 | 12.61 | 7.73 | -59.10 | -13.00 | -46.10 |
| 5550.60 | --- | V | | 13.23 | 9.68 | | -13.00 | |
| 7400.80 | --- | V | | 11.50 | 11.28 | | -13.00 | |
| 9251.00 | --- | V | | 11.92 | 13.10 | | -13.00 | |
| 11101.20 | --- | V | | 11.66 | 14.33 | | -13.00 | |
| 12951.40 | --- | V | | 13.63 | 15.98 | | -13.00 | |
| 14801.60 | --- | V | | 12.76 | 17.27 | | -13.00 | |
| 16651.80 | --- | V | | 15.92 | 19.04 | | -13.00 | |
| 18502.00 | --- | V | | 18.75 | 21.21 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

| | | | |
|-----------------------|--------------------|------------|---------------|
| Operation Mode | : TX CH Low H Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 1850.20MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 96.93 | 43.03 | H | -60.32 | -7.76 | 1.20 | -69.28 | -13.00 | -56.28 |
| 1850.00 | 85.77 | H | -21.12 | 9.90 | 5.41 | -16.63 | -13.00 | -3.63 |
| 3700.40 | 40.84 | H | -60.52 | 12.61 | 7.73 | -55.64 | -13.00 | -42.64 |
| 5550.60 | 38.35 | H | -56.78 | 13.23 | 9.68 | -53.23 | -13.00 | -40.23 |
| 7400.80 | 37.73 | H | -48.33 | 11.50 | 11.28 | -48.11 | -13.00 | -35.11 |
| 9251.00 | --- | H | | 11.92 | 13.10 | | -13.00 | |
| 11101.20 | --- | H | | 11.66 | 14.33 | | -13.00 | |
| 12951.40 | --- | H | | 13.63 | 15.98 | | -13.00 | |
| 14801.60 | --- | H | | 12.76 | 17.27 | | -13.00 | |
| 16651.80 | --- | H | | 15.92 | 19.04 | | -13.00 | |
| 18502.00 | --- | H | | 18.75 | 21.21 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

| | | | |
|-----------------------|--------------------|------------|---------------|
| Operation Mode | : TX CH Mid H Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 1880MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 96.93 | 44.27 | V | -59.64 | -7.76 | 1.20 | -68.60 | -13.00 | -55.60 |
| 3760.00 | --- | V | | 12.60 | 7.82 | | -13.00 | |
| 5640.00 | 37.12 | V | -57.84 | 13.36 | 9.73 | -54.21 | -13.00 | -41.21 |
| 7520.00 | --- | V | | 11.45 | 11.33 | | -13.00 | |
| 9400.00 | --- | V | | 11.93 | 13.15 | | -13.00 | |
| 11280.00 | --- | V | | 11.92 | 14.56 | | -13.00 | |
| 13160.00 | --- | V | | 13.33 | 16.11 | | -13.00 | |
| 15040.00 | --- | V | | 13.76 | 17.57 | | -13.00 | |
| 16920.00 | --- | V | | 15.27 | 19.66 | | -13.00 | |
| 18800.00 | --- | V | | 18.68 | 21.34 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

| | | | |
|-----------------------|--------------------|------------|---------------|
| Operation Mode | : TX CH Mid H Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 1880MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 65.89 | 41.25 | H | -70.60 | -0.83 | 0.98 | -72.41 | -13.00 | -59.41 |
| 3760.00 | 40.52 | H | -60.59 | 12.60 | 7.82 | -55.80 | -13.00 | -42.80 |
| 5640.00 | 37.49 | H | -57.40 | 13.36 | 9.73 | -53.77 | -13.00 | -40.77 |
| 7520.00 | --- | H | | 11.45 | 11.33 | | -13.00 | |
| 9400.00 | --- | H | | 11.93 | 13.15 | | -13.00 | |
| 11280.00 | --- | H | | 11.92 | 14.56 | | -13.00 | |
| 13160.00 | --- | H | | 13.33 | 16.11 | | -13.00 | |
| 15040.00 | --- | H | | 13.76 | 17.57 | | -13.00 | |
| 16920.00 | --- | H | | 15.27 | 19.66 | | -13.00 | |
| 18800.00 | --- | H | | 18.68 | 21.34 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

| | | | |
|-----------------------|---------------------|------------|---------------|
| Operation Mode | : TX CH High H Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 1909.8 MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 96.93 | 44.67 | V | -59.24 | -7.76 | 1.20 | -68.20 | -13.00 | -55.20 |
| 1910.00 | 72.68 | V | -34.26 | 10.08 | 5.51 | -29.69 | -13.00 | -16.69 |
| 3981.60 | --- | V | | 12.60 | 8.17 | | -13.00 | |
| 5972.40 | 37.45 | V | -56.57 | 13.86 | 9.91 | -52.62 | -13.00 | -39.62 |
| 7963.20 | --- | V | | 11.27 | 11.88 | | -13.00 | |
| 9954.00 | --- | V | | 12.08 | 13.43 | | -13.00 | |
| 11944.80 | --- | V | | 13.08 | 15.21 | | -13.00 | |
| 13935.60 | --- | V | | 11.82 | 16.86 | | -13.00 | |
| 15926.40 | --- | V | | 17.08 | 18.33 | | -13.00 | |
| 17917.20 | --- | V | | 9.63 | 20.12 | | -13.00 | |
| 19908.00 | --- | V | | 18.88 | 20.85 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

| | | | |
|-----------------------|---------------------|------------|---------------|
| Operation Mode | : TX CH High H Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 1909.8 MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 96.93 | 43.03 | H | -60.32 | -7.76 | 1.20 | -69.28 | -13.00 | -56.28 |
| 1910.00 | 83.18 | H | -23.67 | 10.08 | 5.51 | -19.11 | -13.00 | -6.11 |
| 3767.50 | 36.08 | H | -65.00 | 12.60 | 7.83 | -60.23 | -13.00 | -47.23 |
| 3981.60 | --- | H | | 12.60 | 8.17 | | -13.00 | |
| 5972.40 | --- | H | | 13.86 | 9.91 | | -13.00 | |
| 7963.20 | --- | H | | 11.27 | 11.88 | | -13.00 | |
| 9954.00 | --- | H | | 12.08 | 13.43 | | -13.00 | |
| 11944.80 | --- | H | | 13.08 | 15.21 | | -13.00 | |
| 13935.60 | --- | H | | 11.82 | 16.86 | | -13.00 | |
| 15926.40 | --- | H | | 17.08 | 18.33 | | -13.00 | |
| 17917.20 | --- | H | | 9.63 | 20.12 | | -13.00 | |
| 19908.00 | --- | H | | 18.88 | 20.85 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: EDGE 850 Mode

| | | | |
|-----------------------|---------------------|------------|---------------|
| Operation Mode | : TX CH Low E1 Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 824.20 MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|--------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 67.83 | 45.08 | V | -66.61 | -0.95 | 1.00 | -68.55 | -13.00 | -55.55 |
| 824.00 | 79.70 | V | -7.63 | -7.87 | 3.64 | -19.15 | -13.00 | -6.15 |
| 1648.40 | 48.95 | V | -58.09 | 9.29 | 5.06 | -53.86 | -13.00 | -40.86 |
| 2472.60 | 40.63 | V | -63.43 | 10.08 | 6.30 | -59.66 | -13.00 | -46.66 |
| 3296.80 | --- | V | | 12.17 | 7.26 | | -13.00 | |
| 4121.00 | --- | V | | 12.61 | 8.33 | | -13.00 | |
| 4945.20 | --- | V | | 12.65 | 9.19 | | -13.00 | |
| 5769.40 | --- | V | | 13.55 | 9.80 | | -13.00 | |
| 6593.60 | --- | V | | 12.05 | 10.61 | | -13.00 | |
| 7417.80 | --- | V | | 11.49 | 11.28 | | -13.00 | |
| 8242.00 | --- | V | | 11.48 | 12.26 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: EDGE 850 Mode

| | | | |
|-----------------------|---------------------|------------|---------------|
| Operation Mode | : TX CH Low E1 Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 824.20 MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|--------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 150.28 | 41.13 | H | -57.47 | -7.80 | 1.47 | -66.74 | -13.00 | -53.74 |
| 824.00 | 70.41 | H | -17.25 | -7.87 | 3.64 | -28.77 | -13.00 | -15.77 |
| 1648.40 | 48.19 | H | -58.82 | 9.29 | 5.06 | -54.59 | -13.00 | -41.59 |
| 2472.60 | 39.99 | H | -64.07 | 10.08 | 6.30 | -60.29 | -13.00 | -47.29 |
| 3296.80 | --- | H | | 12.17 | 7.26 | | -13.00 | |
| 4121.00 | --- | H | | 12.61 | 8.33 | | -13.00 | |
| 4945.20 | --- | H | | 12.65 | 9.19 | | -13.00 | |
| 5769.40 | --- | H | | 13.55 | 9.80 | | -13.00 | |
| 6593.60 | --- | H | | 12.05 | 10.61 | | -13.00 | |
| 7417.80 | --- | H | | 11.49 | 11.28 | | -13.00 | |
| 8242.00 | --- | H | | 11.48 | 12.26 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: EDGE 850 Mode

| | | | |
|-----------------------|---------------------|------------|---------------|
| Operation Mode | : TX CH Mid E1 Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 836.60 MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 65.89 | 46.93 | V | -64.66 | -0.83 | 0.98 | -66.47 | -13.00 | -53.47 |
| 1673.20 | 49.30 | V | -57.73 | 9.36 | 5.10 | -53.47 | -13.00 | -40.47 |
| 2509.80 | 39.68 | V | -64.20 | 10.09 | 6.35 | -60.46 | -13.00 | -47.46 |
| 3346.40 | --- | V | | 12.28 | 7.29 | | -13.00 | |
| 4183.00 | --- | V | | 12.62 | 8.40 | | -13.00 | |
| 5019.60 | --- | V | | 12.67 | 9.26 | | -13.00 | |
| 5856.20 | --- | V | | 13.68 | 9.85 | | -13.00 | |
| 6692.80 | --- | V | | 11.95 | 10.74 | | -13.00 | |
| 7529.40 | --- | V | | 11.45 | 11.35 | | -13.00 | |
| 8366.00 | --- | V | | 11.59 | 12.43 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: EDGE 850 Mode

| | | | |
|-----------------------|---------------------|------------|---------------|
| Operation Mode | : TX CH Mid E1 Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 836.60 MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 65.89 | 44.61 | H | -67.24 | -0.83 | 0.98 | -69.05 | -13.00 | -56.05 |
| 1673.20 | 50.60 | H | -56.40 | 9.36 | 5.10 | -52.13 | -13.00 | -39.13 |
| 2509.80 | 40.80 | H | -63.07 | 10.09 | 6.35 | -59.33 | -13.00 | -46.33 |
| 3346.40 | --- | H | | 12.28 | 7.29 | | -13.00 | |
| 4183.00 | --- | H | | 12.62 | 8.40 | | -13.00 | |
| 5019.60 | --- | H | | 12.67 | 9.26 | | -13.00 | |
| 5856.20 | --- | H | | 13.68 | 9.85 | | -13.00 | |
| 6692.80 | --- | H | | 11.95 | 10.74 | | -13.00 | |
| 7529.40 | --- | H | | 11.45 | 11.35 | | -13.00 | |
| 8366.00 | --- | H | | 11.59 | 12.43 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: EDGE 850 Mode

| | | | |
|-----------------------|----------------------|------------|---------------|
| Operation Mode | : TX CH High E1 Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 848.80 MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 67.82 | 45.16 | V | -66.53 | -0.94 | 1.00 | -68.47 | -13.00 | -55.47 |
| 850.00 | 79.86 | V | -6.85 | -7.88 | 3.75 | -18.48 | -13.00 | -5.48 |
| 1697.60 | 47.51 | V | -59.51 | 9.44 | 5.14 | -55.22 | -13.00 | -42.22 |
| 2546.40 | --- | V | | 10.20 | 6.40 | | -13.00 | |
| 3395.20 | --- | V | | 12.38 | 7.33 | | -13.00 | |
| 4244.00 | --- | V | | 12.63 | 8.46 | | -13.00 | |
| 5092.80 | --- | V | | 12.74 | 9.32 | | -13.00 | |
| 5941.60 | --- | V | | 13.81 | 9.89 | | -13.00 | |
| 6790.40 | --- | V | | 11.86 | 10.87 | | -13.00 | |
| 7639.20 | --- | V | | 11.40 | 11.48 | | -13.00 | |
| 8488.00 | --- | V | | 11.70 | 12.59 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: EDGE 850 Mode

| | | | |
|-----------------------|----------------------|------------|---------------|
| Operation Mode | : TX CH High E1 Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 848.80 MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 65.89 | 43.93 | H | -67.92 | -0.83 | 0.98 | -69.73 | -13.00 | -56.73 |
| 850.00 | 69.25 | H | -17.74 | -7.88 | 3.75 | -29.37 | -13.00 | -16.37 |
| 1697.60 | 49.73 | H | -57.25 | 9.44 | 5.14 | -52.96 | -13.00 | -39.96 |
| 2546.40 | --- | H | | 10.20 | 6.40 | | -13.00 | |
| 3395.20 | --- | H | | 12.38 | 7.33 | | -13.00 | |
| 4244.00 | --- | H | | 12.63 | 8.46 | | -13.00 | |
| 5092.80 | --- | H | | 12.74 | 9.32 | | -13.00 | |
| 5941.60 | --- | H | | 13.81 | 9.89 | | -13.00 | |
| 6790.40 | --- | H | | 11.86 | 10.87 | | -13.00 | |
| 7639.20 | --- | H | | 11.40 | 11.48 | | -13.00 | |
| 8488.00 | --- | H | | 11.70 | 12.59 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

| | | | |
|-----------------------|--------------------|------------|---------------|
| Operation Mode | : TX CH Low H Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 1850.20MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 92.08 | 47.43 | V | -56.82 | -7.75 | 1.17 | -65.75 | -13.00 | -52.75 |
| 286.08 | 36.94 | V | -62.95 | -7.91 | 1.99 | -72.85 | -13.00 | -59.85 |
| 1850.00 | 68.74 | V | -38.22 | 9.90 | 5.41 | -33.73 | -13.00 | -20.73 |
| 3700.40 | 38.05 | V | -63.53 | 12.61 | 7.73 | -58.65 | -13.00 | -45.65 |
| 5550.60 | --- | V | | 13.23 | 9.68 | | -13.00 | |
| 7400.80 | --- | V | | 11.50 | 11.28 | | -13.00 | |
| 9251.00 | --- | V | | 11.92 | 13.10 | | -13.00 | |
| 11101.20 | --- | V | | 11.66 | 14.33 | | -13.00 | |
| 12951.40 | --- | V | | 13.63 | 15.98 | | -13.00 | |
| 14801.60 | --- | V | | 12.76 | 17.27 | | -13.00 | |
| 16651.80 | --- | V | | 15.92 | 19.04 | | -13.00 | |
| 18502.00 | --- | V | | 18.75 | 21.21 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

| | | | |
|-----------------------|--------------------|------------|---------------|
| Operation Mode | : TX CH Low H Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 1850.20MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 65.89 | 44.99 | H | -66.86 | -0.83 | 0.98 | -68.67 | -13.00 | -55.67 |
| 1850.00 | 82.91 | H | -23.98 | 9.90 | 5.41 | -19.49 | -13.00 | -6.49 |
| 3700.40 | 38.99 | H | -62.37 | 12.61 | 7.73 | -57.49 | -13.00 | -44.49 |
| 4668.00 | 35.78 | H | -61.80 | 12.66 | 8.90 | -58.05 | -13.00 | -45.05 |
| 5550.60 | --- | H | | 13.23 | 9.68 | | -13.00 | |
| 7400.80 | --- | H | | 11.50 | 11.28 | | -13.00 | |
| 9251.00 | --- | H | | 11.92 | 13.10 | | -13.00 | |
| 11101.20 | --- | H | | 11.66 | 14.33 | | -13.00 | |
| 12951.40 | --- | H | | 13.63 | 15.98 | | -13.00 | |
| 14801.60 | --- | H | | 12.76 | 17.27 | | -13.00 | |
| 16651.80 | --- | H | | 15.92 | 19.04 | | -13.00 | |
| 18502.00 | --- | H | | 18.75 | 21.21 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

| | | | |
|-----------------------|--------------------|------------|---------------|
| Operation Mode | : TX CH Mid H Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 1880MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 96.93 | 46.20 | V | -57.71 | -7.76 | 1.20 | -66.67 | -13.00 | -53.67 |
| 3760.00 | --- | V | | 12.60 | 7.82 | | -13.00 | |
| 5640.00 | --- | V | | 13.36 | 9.73 | | -13.00 | |
| 7188.00 | 36.22 | V | -50.43 | 11.58 | 11.20 | -50.06 | -13.00 | -37.06 |
| 7520.00 | --- | V | | 11.45 | 11.33 | | -13.00 | |
| 9400.00 | --- | V | | 11.93 | 13.15 | | -13.00 | |
| 11280.00 | --- | V | | 11.92 | 14.56 | | -13.00 | |
| 13160.00 | --- | V | | 13.33 | 16.11 | | -13.00 | |
| 15040.00 | --- | V | | 13.76 | 17.57 | | -13.00 | |
| 16920.00 | --- | V | | 15.27 | 19.66 | | -13.00 | |
| 18800.00 | --- | V | | 18.68 | 21.34 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

| | | | |
|-----------------------|--------------------|------------|---------------|
| Operation Mode | : TX CH Mid H Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 1880MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 67.83 | 43.78 | H | -68.28 | -0.95 | 1.00 | -70.22 | -13.00 | -57.22 |
| 140.58 | 39.58 | H | -59.87 | -7.79 | 1.42 | -69.08 | -13.00 | -56.08 |
| 2953.00 | 37.85 | H | -64.87 | 11.38 | 6.96 | -60.45 | -13.00 | -47.45 |
| 3760.00 | --- | H | | 12.60 | 7.82 | | -13.00 | |
| 5640.00 | --- | H | | 13.36 | 9.73 | | -13.00 | |
| 7520.00 | --- | H | | 11.45 | 11.33 | | -13.00 | |
| 9400.00 | --- | H | | 11.93 | 13.15 | | -13.00 | |
| 11280.00 | --- | H | | 11.92 | 14.56 | | -13.00 | |
| 13160.00 | --- | H | | 13.33 | 16.11 | | -13.00 | |
| 15040.00 | --- | H | | 13.76 | 17.57 | | -13.00 | |
| 16920.00 | --- | H | | 15.27 | 19.66 | | -13.00 | |
| 18800.00 | --- | H | | 18.68 | 21.34 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

| | | | |
|-----------------------|---------------------|------------|---------------|
| Operation Mode | : TX CH High H Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 1909.8 MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBUV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 92.08 | 44.85 | V | -59.40 | -7.75 | 1.17 | -68.33 | -13.00 | -55.33 |
| 1910.00 | 67.29 | V | -39.65 | 10.08 | 5.51 | -35.08 | -13.00 | -22.08 |
| 3806.00 | 34.97 | V | -66.12 | 12.60 | 7.89 | -61.41 | -13.00 | -48.41 |
| 3981.60 | --- | V | | 12.60 | 8.17 | | -13.00 | |
| 5972.40 | --- | V | | 13.86 | 9.91 | | -13.00 | |
| 7963.20 | --- | V | | 11.27 | 11.88 | | -13.00 | |
| 9954.00 | --- | V | | 12.08 | 13.43 | | -13.00 | |
| 11944.80 | --- | V | | 13.08 | 15.21 | | -13.00 | |
| 13935.60 | --- | V | | 11.82 | 16.86 | | -13.00 | |
| 15926.40 | --- | V | | 17.08 | 18.33 | | -13.00 | |
| 17917.20 | --- | V | | 9.63 | 20.12 | | -13.00 | |
| 19908.00 | --- | V | | 18.88 | 20.85 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

| | | | |
|-----------------------|---------------------|------------|---------------|
| Operation Mode | : TX CH High H Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 1909.8 MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 65.89 | 44.44 | H | -67.41 | -0.83 | 0.98 | -69.22 | -13.00 | -56.22 |
| 1910.00 | 80.35 | H | -26.50 | 10.08 | 5.51 | -21.94 | -13.00 | -8.94 |
| 3981.60 | 35.27 | H | -64.91 | 12.60 | 8.17 | -60.48 | -13.00 | -47.48 |
| 5972.40 | --- | H | | 13.86 | 9.91 | | -13.00 | |
| 7963.20 | --- | H | | 11.27 | 11.88 | | -13.00 | |
| 9954.00 | --- | H | | 12.08 | 13.43 | | -13.00 | |
| 11944.80 | --- | H | | 13.08 | 15.21 | | -13.00 | |
| 13935.60 | --- | H | | 11.82 | 16.86 | | -13.00 | |
| 15926.40 | --- | H | | 17.08 | 18.33 | | -13.00 | |
| 17917.20 | --- | H | | 9.63 | 20.12 | | -13.00 | |
| 19908.00 | --- | H | | 18.88 | 20.85 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: WCDMA BAND II Mode

| | | | |
|-----------------------|--------------------|------------|---------------|
| Operation Mode | : TX CH Low H Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 1852.40MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 96.93 | 44.80 | V | -59.11 | -7.76 | 1.20 | -68.07 | -13.00 | -55.07 |
| 1850.00 | 52.84 | V | -54.12 | 9.90 | 5.41 | -49.63 | -13.00 | -36.63 |
| 3704.80 | 33.58 | V | -67.98 | 12.61 | 7.73 | -63.11 | -13.00 | -50.11 |
| 5557.20 | --- | V | | 13.24 | 9.69 | | -13.00 | |
| 7409.60 | --- | V | | 11.49 | 11.28 | | -13.00 | |
| 9262.00 | --- | V | | 11.92 | 13.10 | | -13.00 | |
| 11114.40 | --- | V | | 11.68 | 14.35 | | -13.00 | |
| 12966.80 | --- | V | | 13.62 | 16.00 | | -13.00 | |
| 14819.20 | --- | V | | 12.83 | 17.30 | | -13.00 | |
| 16671.60 | --- | V | | 15.87 | 19.09 | | -13.00 | |
| 18524.00 | --- | V | | 18.74 | 21.22 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: WCDMA BAND II Mode

| | | | |
|-----------------------|--------------------|------------|---------------|
| Operation Mode | : TX CH Low H Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 1852.40MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 1850.00 | 65.10 | H | -41.79 | 9.90 | 5.41 | -37.30 | -13.00 | -24.30 |
| 3704.80 | 33.49 | H | -67.85 | 12.61 | 7.73 | -62.98 | -13.00 | -49.98 |
| 5557.20 | --- | H | | 13.24 | 9.69 | | -13.00 | |
| 7409.60 | --- | H | | 11.49 | 11.28 | | -13.00 | |
| 9262.00 | --- | H | | 11.92 | 13.10 | | -13.00 | |
| 11114.40 | --- | H | | 11.68 | 14.35 | | -13.00 | |
| 12966.80 | --- | H | | 13.62 | 16.00 | | -13.00 | |
| 14819.20 | --- | H | | 12.83 | 17.30 | | -13.00 | |
| 16671.60 | --- | H | | 15.87 | 19.09 | | -13.00 | |
| 18524.00 | --- | H | | 18.74 | 21.22 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: WCDMA BAND II Mode

| | | | |
|-----------------------|--------------------|------------|---------------|
| Operation Mode | : TX CH Mid H Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 1880MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBUV) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 96.93 | 43.70 | V | -60.21 | -7.76 | 1.20 | -69.17 | -13.00 | -56.17 |
| 3760.00 | 37.07 | V | -64.23 | 12.60 | 7.82 | -59.45 | -13.00 | -46.45 |
| 5640.00 | --- | V | | 13.36 | 9.73 | | -13.00 | |
| 7520.00 | --- | V | | 11.45 | 11.33 | | -13.00 | |
| 9400.00 | --- | V | | 11.93 | 13.15 | | -13.00 | |
| 11280.00 | --- | V | | 11.92 | 14.56 | | -13.00 | |
| 13160.00 | --- | V | | 13.33 | 16.11 | | -13.00 | |
| 15040.00 | --- | V | | 13.76 | 17.57 | | -13.00 | |
| 16920.00 | --- | V | | 15.27 | 19.66 | | -13.00 | |
| 18800.00 | --- | V | | 18.68 | 21.34 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: WCDMA BAND II Mode

Operation Mode : TX CH Mid H Mode Test Date: Feb. 25, 2008
 Fundamental Frequency : 1880MHz Test By: Jazz
 Temperature : 25°C Pol: Hor
 Humidity : 65%

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 3760.00 | 35.64 | H | -65.47 | 12.60 | 7.82 | -60.68 | -13.00 | -47.68 |
| 5640.00 | --- | H | | 13.36 | 9.73 | | -13.00 | |
| 7520.00 | --- | H | | 11.45 | 11.33 | | -13.00 | |
| 9400.00 | --- | H | | 11.93 | 13.15 | | -13.00 | |
| 11280.00 | --- | H | | 11.92 | 14.56 | | -13.00 | |
| 13160.00 | --- | H | | 13.33 | 16.11 | | -13.00 | |
| 15040.00 | --- | H | | 13.76 | 17.57 | | -13.00 | |
| 16920.00 | --- | H | | 15.27 | 19.66 | | -13.00 | |
| 18800.00 | --- | H | | 18.68 | 21.34 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: WCDMA BAND II Mode

| | | | |
|-----------------------|---------------------|------------|---------------|
| Operation Mode | : TX CH High H Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 1907.6 MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 96.93 | 42.81 | V | -61.10 | -7.76 | 1.20 | -70.06 | -13.00 | -57.06 |
| 1910.00 | 49.14 | V | -57.80 | 10.08 | 5.51 | -53.23 | -13.00 | -40.23 |
| 3815.20 | 42.02 | V | -59.03 | 12.60 | 7.91 | -54.34 | -13.00 | -41.34 |
| 5722.80 | 35.79 | V | -58.93 | 13.48 | 9.78 | -55.22 | -13.00 | -42.22 |
| 7630.40 | --- | V | | 11.41 | 11.47 | | -13.00 | |
| 9538.00 | --- | V | | 11.95 | 13.21 | | -13.00 | |
| 11445.60 | --- | V | | 12.15 | 14.77 | | -13.00 | |
| 13353.20 | --- | V | | 13.00 | 16.21 | | -13.00 | |
| 15260.80 | --- | V | | 14.91 | 17.86 | | -13.00 | |
| 17168.40 | --- | V | | 14.53 | 19.76 | | -13.00 | |
| 19076.00 | --- | V | | 18.65 | 21.37 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: WCDMA BAND II Mode

| | | | |
|-----------------------|---------------------|------------|---------------|
| Operation Mode | : TX CH High H Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 1907.6 MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------------------|---------------------|--------------|------------------|------------------------|-----------------|----------------|-------------|-------------------|
| 67.83 | 42.59 | H | -69.47 | -0.95 | 1.00 | -71.41 | -13.00 | -58.41 |
| 1910.00 | 60.10 | H | -46.75 | 10.08 | 5.51 | -42.19 | -13.00 | -29.19 |
| 3815.20 | 40.82 | H | -60.06 | 12.60 | 7.91 | -55.36 | -13.00 | -42.36 |
| 5722.80 | --- | H | | 13.48 | 9.78 | | -13.00 | |
| 7630.40 | --- | H | | 11.41 | 11.47 | | -13.00 | |
| 9538.00 | --- | H | | 11.95 | 13.21 | | -13.00 | |
| 11445.60 | --- | H | | 12.15 | 14.77 | | -13.00 | |
| 13353.20 | --- | H | | 13.00 | 16.21 | | -13.00 | |
| 15260.80 | --- | H | | 14.91 | 17.86 | | -13.00 | |
| 17168.40 | --- | H | | 14.53 | 19.76 | | -13.00 | |
| 19076.00 | --- | H | | 18.65 | 21.37 | | -13.00 | |
| Measurement uncertainty | | | | 30MHz - 80MHz: 5.04dB | | | | |
| | | | | 80MHz -1000MHz: 3.76dB | | | | |
| | | | | 1GHz - 13GHz: 4.45dB | | | | |

Remark :

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

Radiated Spurious Emission Measurement Result: WCDMA BAND V Mode

| | | | |
|-----------------------|---------------------|------------|---------------|
| Operation Mode | : TX CH Low E1 Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 826.4MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|---|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 96.93 | 44.21 | V | -59.70 | -7.76 | 1.20 | -68.66 | -13.00 | -55.66 |
| 824.00 | 53.52 | V | -33.81 | -7.87 | 3.64 | -45.33 | -13.00 | -32.33 |
| 1652.80 | 41.22 | V | -65.82 | 9.30 | 5.06 | -61.58 | -13.00 | -48.58 |
| 2479.20 | --- | V | | 10.07 | 6.31 | | -13.00 | |
| 3305.60 | --- | V | | 12.19 | 7.26 | | -13.00 | |
| 4132.00 | --- | V | | 12.62 | 8.34 | | -13.00 | |
| 4958.40 | --- | V | | 12.65 | 9.20 | | -13.00 | |
| 5784.80 | --- | V | | 13.58 | 9.81 | | -13.00 | |
| 6611.20 | --- | V | | 12.03 | 10.63 | | -13.00 | |
| 7437.60 | --- | V | | 11.48 | 11.29 | | -13.00 | |
| 8264.00 | --- | V | | 11.50 | 12.29 | | -13.00 | |
| Measurement uncertainty 30MHz - 80MHz: 5.04dB 80MHz - 1000MHz: 3.76dB 1GHz - 13GHz: 4.45dB | | | | | | | | |

Remark :

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

Radiated Spurious Emission Measurement Result: WCDMA BAND V Mode

| | | | |
|-----------------------|---------------------|------------|---------------|
| Operation Mode | : TX CH Low E1 Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 826.4MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------------------|-------------------------|--------------|------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 75.59 | 43.52 | H | -68.84 | -1.85 | 1.05 | -71.74 | -13.00 | -58.74 |
| 824.00 | 43.36 | H | -44.30 | -7.87 | 3.64 | -55.82 | -13.00 | -42.82 |
| 1652.80 | 39.56 | H | -67.45 | 9.30 | 5.06 | -63.21 | -13.00 | -50.21 |
| 2479.20 | 41.56 | H | -62.46 | 10.07 | 6.31 | -58.69 | -13.00 | -45.69 |
| 3305.60 | --- | H | | 12.19 | 7.26 | | -13.00 | |
| 4132.00 | --- | H | | 12.62 | 8.34 | | -13.00 | |
| 4958.40 | --- | H | | 12.65 | 9.20 | | -13.00 | |
| 5784.80 | --- | H | | 13.58 | 9.81 | | -13.00 | |
| 6611.20 | --- | H | | 12.03 | 10.63 | | -13.00 | |
| 7437.60 | --- | H | | 11.48 | 11.29 | | -13.00 | |
| 8264.00 | --- | H | | 11.50 | 12.29 | | -13.00 | |
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB | | | | | | | |
| | 80MHz - 1000MHz: 3.76dB | | | | | | | |
| | 1GHz - 13GHz: 4.45dB | | | | | | | |

Remark :

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

Radiated Spurious Emission Measurement Result: WCDMA BAND V Mode

| | | | |
|-----------------------|---------------------|------------|---------------|
| Operation Mode | : TX CH Mid E1 Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 836.0MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Output (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 96.93 | 43.83 | V | -60.08 | -7.76 | 1.20 | -69.04 | -13.00 | -56.04 |
| 1672.00 | 50.14 | V | -56.89 | 9.36 | 5.10 | -52.63 | -13.00 | -39.63 |
| 2508.00 | 46.28 | V | -57.60 | 10.08 | 6.35 | -53.86 | -13.00 | -40.86 |
| 3344.00 | --- | V | | 12.27 | 7.29 | | -13.00 | |
| 4180.00 | --- | V | | 12.62 | 8.39 | | -13.00 | |
| 5016.00 | --- | V | | 12.67 | 9.25 | | -13.00 | |
| 5852.00 | --- | V | | 13.68 | 9.84 | | -13.00 | |
| 6688.00 | --- | V | | 11.96 | 10.73 | | -13.00 | |
| 7524.00 | --- | V | | 11.45 | 11.34 | | -13.00 | |
| 8360.00 | --- | V | | 11.58 | 12.42 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

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Radiated Spurious Emission Measurement Result: WCDMA BAND V Mode

| | | | |
|-----------------------|---------------------|------------|---------------|
| Operation Mode | : TX CH Mid E1 Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 836.0MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 65.89 | 42.21 | H | -69.64 | -0.83 | 0.98 | -71.45 | -13.00 | -58.45 |
| 1672.00 | 49.66 | H | -57.34 | 9.36 | 5.10 | -53.07 | -13.00 | -40.07 |
| 2508.00 | 51.10 | H | -52.78 | 10.08 | 6.35 | -49.04 | -13.00 | -36.04 |
| 3344.00 | --- | H | | 12.27 | 7.29 | | -13.00 | |
| 4180.00 | --- | H | | 12.62 | 8.39 | | -13.00 | |
| 5016.00 | --- | H | | 12.67 | 9.25 | | -13.00 | |
| 5852.00 | --- | H | | 13.68 | 9.84 | | -13.00 | |
| 6688.00 | --- | H | | 11.96 | 10.73 | | -13.00 | |
| 7524.00 | --- | H | | 11.45 | 11.34 | | -13.00 | |
| 8360.00 | --- | H | | 11.58 | 12.42 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: WCDMA BAND V Mode

| | | | |
|-----------------------|----------------------|------------|---------------|
| Operation Mode | : TX CH High E1 Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 846.6 MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Ver |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 96.93 | 44.27 | V | -59.64 | -7.76 | 1.20 | -68.60 | -13.00 | -55.60 |
| 850.00 | 55.07 | V | -31.64 | -7.88 | 3.75 | -43.27 | -13.00 | -30.27 |
| 1693.20 | 46.18 | V | -60.84 | 9.42 | 5.13 | -56.55 | -13.00 | -43.55 |
| 2539.80 | 43.57 | V | -60.23 | 10.18 | 6.39 | -56.45 | -13.00 | -43.45 |
| 3386.40 | --- | V | | 12.36 | 7.32 | | -13.00 | |
| 4233.00 | --- | V | | 12.63 | 8.45 | | -13.00 | |
| 5079.60 | --- | V | | 12.73 | 9.31 | | -13.00 | |
| 5926.20 | --- | V | | 13.79 | 9.88 | | -13.00 | |
| 6772.80 | --- | V | | 11.87 | 10.84 | | -13.00 | |
| 7619.40 | --- | V | | 11.41 | 11.46 | | -13.00 | |
| 8466.00 | --- | V | | 11.68 | 12.56 | | -13.00 | |

| | |
|-------------------------|-------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz - 1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

Radiated Spurious Emission Measurement Result: WCDMA BAND V Mode

| | | | |
|-----------------------|----------------------|------------|---------------|
| Operation Mode | : TX CH High E1 Mode | Test Date: | Feb. 25, 2008 |
| Fundamental Frequency | : 846.60 MHz | Test By: | Jazz |
| Temperature | : 25°C | Pol: | Hor |
| Humidity | : 65% | | |

| Freq. (MHz) | SPA. Reading (dBuV) | Ant.Pol. H/V | S.G Out-put (dBm) | Antenna Gain (dB/dBi) | Cable Loss (dB) | ERP/EIRP (dBm) | Limit (dBm) | Safe Margin (dBm) |
|-------------|---------------------|--------------|-------------------|-----------------------|-----------------|----------------|-------------|-------------------|
| 850.00 | 44.62 | H | -42.37 | -7.88 | 3.75 | -54.00 | -13.00 | -41.00 |
| 1693.20 | 44.67 | H | -62.31 | 9.42 | 5.13 | -58.02 | -13.00 | -45.02 |
| 2539.80 | 49.21 | H | -54.59 | 10.18 | 6.39 | -50.80 | -13.00 | -37.80 |
| 3386.40 | --- | H | | 12.36 | 7.32 | | -13.00 | |
| 4233.00 | --- | H | | 12.63 | 8.45 | | -13.00 | |
| 5079.60 | --- | H | | 12.73 | 9.31 | | -13.00 | |
| 5926.20 | --- | H | | 13.79 | 9.88 | | -13.00 | |
| 6772.80 | --- | H | | 11.87 | 10.84 | | -13.00 | |
| 7619.40 | --- | H | | 11.41 | 11.46 | | -13.00 | |
| 8466.00 | --- | H | | 11.68 | 12.56 | | -13.00 | |

| | |
|-------------------------|------------------------|
| Measurement uncertainty | 30MHz - 80MHz: 5.04dB |
| | 80MHz -1000MHz: 3.76dB |
| | 1GHz - 13GHz: 4.45dB |

Remark :

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

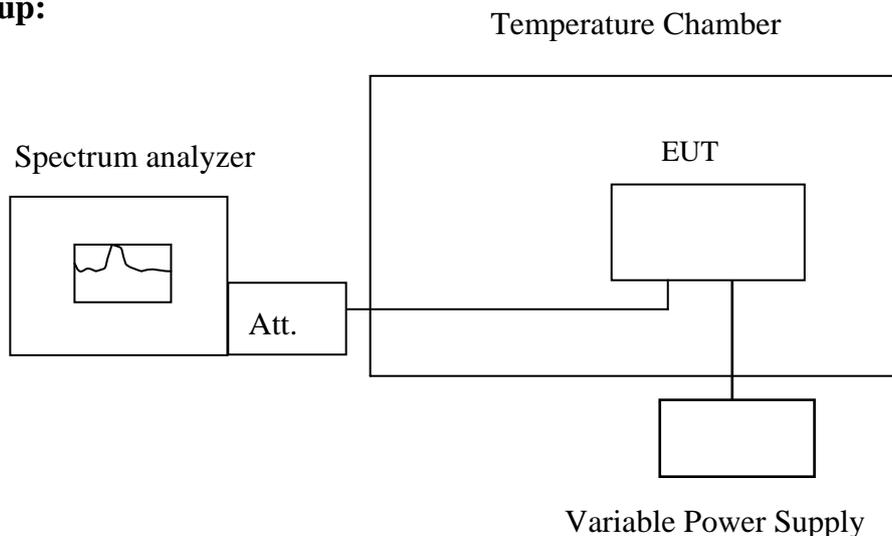
10. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

10.1 Standard Applicable

According to FCC §2.1055(a)(1)(b).

Frequency Tolerance: 2.5 ppm

10.2 Test Set-up:



Note : Measurement setup for testing on Antenna connector

10.3 Measurement Procedure

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

10.4 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|--------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/27/2007 | 04/26/2008 |
| Spectrum Analyzer | Agilent | E7405A | US41160416 | 07/04/2007 | 07/03/2008 |
| Power Sensor | Anritsu | MA2490A | 31431 | 07/07/2007 | 07/06/2008 |
| Power Meter | Anritsu | ML2487A | 6K00002070 | 07/07/2007 | 07/06/2008 |
| Communication Test | R&S | SMU200 | N/A | N/A | N/A |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 04/26/2007 | 04/25/2008 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA | N/A | N/A | N/A |
| Attenuator | Mini-Circuit | BW-S10W5 | N/A | 07/05/2007 | 07/04/2008 |
| Attenuator | Mini-Circuit | BW-S6W5 | N/A | 07/05/2007 | 07/04/2008 |
| Splitter | Agilent | 11636B | 51728 | 09/23/2007 | 09/22/2008 |
| Signal Generator | R&S | SMR40 | 100210 | 11/09/2007 | 11/10/2008 |
| DC Power Supply | Agilent | 6038A | 2929A-07548 | 01/06/2008 | 01/05/2009 |

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10.5 Measurement Result

| Reference Frequency: GSM Mid Channel 836.6 MHz @ 25°C | | | | |
|---|------------------|------------|------------|------------|
| Limit: +/- 2.5 ppm = 2091 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 3.7 | -30 | 836.600001 | -9.00 | 2091 |
| 3.7 | -20 | 836.600003 | -11.00 | 2091 |
| 3.7 | -10 | 836.599998 | -6.00 | 2091 |
| 3.7 | 0 | 836.599991 | 1.00 | 2091 |
| 3.7 | 10 | 836.599999 | -7.00 | 2091 |
| 3.7 | 20 | 836.599992 | 0.00 | 2091 |
| 3.7 | 30 | 836.599999 | -7.00 | 2091 |
| 3.7 | 40 | 836.599992 | 0.00 | 2091 |
| 3.7 | 50 | 836.599999 | -7.00 | 2091 |

| Reference Frequency: PCS Mid Channel 1880 MHz @ 25°C | | | | |
|--|------------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = 4700 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 3.7 | -30 | 1879.999945 | 36.00 | 4700 |
| 3.7 | -20 | 1879.999997 | -16.00 | 4700 |
| 3.7 | -10 | 1879.999998 | -17.00 | 4700 |
| 3.7 | 0 | 1879.999990 | -9.00 | 4700 |
| 3.7 | 10 | 1879.999990 | -9.00 | 4700 |
| 3.7 | 20 | 1879.999981 | 0.00 | 4700 |
| 3.7 | 30 | 1879.999945 | 36.00 | 4700 |
| 3.7 | 40 | 1879.999955 | 26.00 | 4700 |
| 3.7 | 50 | 1879.999953 | 28.00 | 4700 |

Note: The battery is rated 3.7V dc.

| Reference Frequency: EDGE850 Mid Channel 836.6 MHz @ 25°C | | | | |
|---|------------------|------------|------------|------------|
| Limit: +/- 2.5 ppm = 2091 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 3.7 | -30 | 836.600013 | -10.00 | 2091 |
| 3.7 | -20 | 836.600011 | -8.00 | 2091 |
| 3.7 | -10 | 836.600007 | -4.00 | 2091 |
| 3.7 | 0 | 836.600005 | -2.00 | 2091 |
| 3.7 | 10 | 836.600001 | 2.00 | 2091 |
| 3.7 | 20 | 836.600003 | 0.00 | 2091 |
| 3.7 | 30 | 836.600003 | 0.00 | 2091 |
| 3.7 | 40 | 836.599991 | 12.00 | 2091 |
| 3.7 | 50 | 836.599985 | 18.00 | 2091 |

| Reference Frequency: EDGE1900 Mid Channel 1880 MHz @ 25°C | | | | |
|---|------------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = 4700 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 3.7 | -30 | 1879.999998 | -9.00 | 4700 |
| 3.7 | -20 | 1879.999992 | -3.00 | 4700 |
| 3.7 | -10 | 1879.999994 | -5.00 | 4700 |
| 3.7 | 0 | 1879.999990 | -1.00 | 4700 |
| 3.7 | 10 | 1879.999992 | -3.00 | 4700 |
| 3.7 | 20 | 1879.999989 | 0.00 | 4700 |
| 3.7 | 30 | 1879.999986 | 3.00 | 4700 |
| 3.7 | 40 | 1879.999988 | 1.00 | 4700 |
| 3.7 | 50 | 1879.999982 | 7.00 | 4700 |

Note: The battery is rated 3.7V dc.

| Reference Frequency: WCDMA BAND II Mid Channel 1880 MHz @ 25°C | | | | |
|--|------------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = 4700 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 3.7 | -30 | 1880.000001 | -3.00 | 4700 |
| 3.7 | -20 | 1880.000001 | -3.00 | 4700 |
| 3.7 | -10 | 1880.000002 | -4.00 | 4700 |
| 3.7 | 0 | 1879.999999 | -1.00 | 4700 |
| 3.7 | 10 | 1879.999998 | 0.00 | 4700 |
| 3.7 | 20 | 1879.999998 | 0.00 | 4700 |
| 3.7 | 30 | 1880.000001 | -3.00 | 4700 |
| 3.7 | 40 | 1880.000002 | -4.00 | 4700 |
| 3.7 | 50 | 1880.000004 | -6.00 | 4700 |

| Reference Frequency: WCDMA BAND V Mid Channel 836.0 MHz @ 25°C | | | | |
|--|------------------|------------|------------|------------|
| Limit: +/- 2.5 ppm = 2091 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 3.7 | -30 | 836.599998 | -2.00 | 2091 |
| 3.7 | -20 | 836.599999 | -3.00 | 2091 |
| 3.7 | -10 | 836.599997 | -1.00 | 2091 |
| 3.7 | 0 | 836.599998 | -2.00 | 2091 |
| 3.7 | 10 | 836.599999 | -3.00 | 2091 |
| 3.7 | 20 | 836.599996 | 0.00 | 2091 |
| 3.7 | 30 | 836.599999 | -3.00 | 2091 |
| 3.7 | 40 | 836.600001 | -5.00 | 2091 |
| 3.7 | 50 | 836.600001 | -5.00 | 2091 |

Note: The battery is rated 3.7V dc.

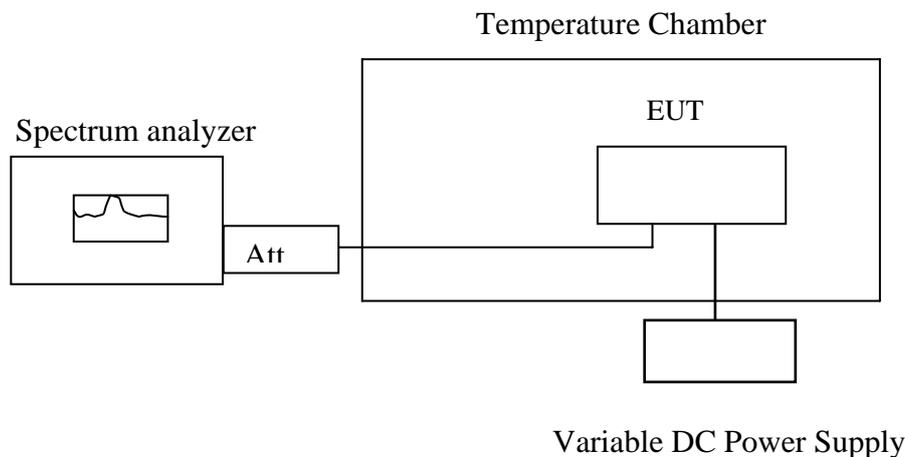
11. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

11.1 Standard Applicable

According to FCC §2.1055(d)(1)(2)

Frequency Tolerance: 2.5 ppm

11.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

11.3 Measurement Procedure

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

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

11.4 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|--------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/27/2007 | 04/26/2008 |
| Spectrum Analyzer | Agilent | E7405A | US41160416 | 07/04/2007 | 07/03/2008 |
| Power Sensor | Anritsu | MA2490A | 31431 | 07/07/2007 | 07/06/2008 |
| Power Meter | Anritsu | ML2487A | 6K00002070 | 07/07/2007 | 07/06/2008 |
| Communication Test | R&S | SMU200 | N/A | N/A | N/A |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 04/26/2007 | 04/25/2008 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA | N/A | N/A | N/A |
| Attenuator | Mini-Circuit | BW-S10W5 | N/A | 07/05/2007 | 07/04/2008 |
| Attenuator | Mini-Circuit | BW-S6W5 | N/A | 07/05/2007 | 07/04/2008 |
| Splitter | Agilent | 11636B | 51728 | 09/23/2007 | 09/22/2008 |
| Signal Generator | R&S | SMR40 | 100210 | 11/09/2007 | 11/10/2008 |
| DC Power Supply | Agilent | 6038A | 2929A-07548 | 01/06/2008 | 01/05/2009 |

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11.5 Measurement Result

| Reference Frequency: GSM Mid Channel 836.6 MHz @ 25°C | | | | |
|---|------------------|------------|------------|------------|
| Limit: +/- 0.1 ppm = 2091 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 4.2 | 25.00 | 836.599997 | 0.00 | 2091.00 |
| 3.7 | 25.00 | 836.599996 | 1.00 | 2091.00 |
| 3.5 | 25.00 | 836.600007 | -10.00 | 2091.00 |
| 3.3 (End Point) | 25.00 | 836.600001 | 4.00 | 2091.00 |

| Reference Frequency: PCS Mid Channel 1880 MHz @ 25°C | | | | |
|--|------------------|-------------|------------|------------|
| Limit: +/- 0.04 ppm = 4700 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 4.2 | 25 | 1879.999980 | 0.00 | 4700 |
| 3.7 | 25 | 1879.999974 | 6.00 | 4700 |
| 3.5 | 25 | 1879.999972 | 8.00 | 4700 |
| 3.3 (Endpoint) | 25 | 1879.999969 | 11.00 | 4700 |

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| Reference Frequency: EDGE850 Mid Channel 836.6 MHz @ 25°C | | | | |
|---|------------------|------------|------------|------------|
| Limit: +/- 0.1 ppm = 2091 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 4.2 | 25.00 | 836.599992 | 0.00 | 2091.00 |
| 3.7 | 25.00 | 836.599988 | 4.00 | 2091.00 |
| 3.5 | 25.00 | 836.599989 | 3.00 | 2091.00 |
| 3.3 (End Point) | 25.00 | 836.599985 | 7.00 | 2091.00 |

| Reference Frequency: EDGE1900 Mid Channel 1880 MHz @ 25°C | | | | |
|---|------------------|-------------|------------|------------|
| Limit: +/- 0.04 ppm = 4700 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 4.2 | 25 | 1879.999998 | 0.00 | 4700 |
| 3.7 | 25 | 1879.999994 | 4.00 | 4700 |
| 3.5 | 25 | 1879.999991 | 7.00 | 4700 |
| 3.3 (Endpoint) | 25 | 1879.999992 | 6.00 | 4700 |

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| Reference Frequency: WCDMA BAND II Mid Channel 1880 MHz @ 25°C | | | | |
|--|------------------|-------------|------------|------------|
| Limit: +/- 0.1 ppm = 4700 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 4.2 | 25 | 1879.999995 | 0.00 | 4700 |
| 3.7 | 25 | 1879.999998 | -3.00 | 4700 |
| 3.5 | 25 | 1879.999999 | -4.00 | 4700 |
| 3.3 (Endpoint) | 25 | 1879.999998 | -3.00 | 4700 |

| Reference Frequency: WCDMA BAND V Mid Channel 836.0 MHz @ 25°C | | | | |
|--|------------------|------------|------------|------------|
| Limit: +/- 0.04 ppm = 2091 Hz | | | | |
| Power Supply | Environment | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc | Temperature (°C) | (MHz) | | |
| 4.2 | 25.00 | 836.599999 | 0.00 | 2091.00 |
| 3.7 | 25.00 | 836.599997 | 2.00 | 2091.00 |
| 3.5 | 25.00 | 836.599998 | 1.00 | 2091.00 |
| 3.3 (End Point) | 25.00 | 836.599997 | 2.00 | 2091.00 |

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12. AC POWER LINE CONDUCTED EMISSION TEST

12.1 Standard Applicable

According to §15.207. The emission value for frequency within 150KHz to 30MHz shall not exceed criteria of below chart.

| Frequency range MHz | Limits dB(uV) | |
|------------------------|------------------|----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2 EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2001.
2. The EUT was plug-in DC power adaptor and was placed on the center of the back edge on the test table. The peripherals like earphone was placed on the side of the EUT. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The Power adaptor was connected with 110Vac/60Hz power source.

12.3 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

12.4 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMC Analyzer | HP | 8594EM | 3624A00203 | 09/02/2007 | 09/03/2008 |
| EMI Test Receiver | R&S | ESCS30 | 828985/004 | 06/09/2007 | 06/10/2008 |
| Transient Limiter | HP | 11947A | 3107A02062 | 09/02/2007 | 09/03/2008 |
| LISN | Rolf-Heine | NNB-2/16Z | 99012 | 12/31/2007 | 12/30/2008 |
| LISN | Rolf-Heine | NNB-2/16Z | 99013 | 01/10/2008 | 01/09/2009 |
| Coaxial Cables | N/A | No. 3, 4 | N/A | 01/11/2008 | 01/10/2009 |

12.5 Measurement Result

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

AC POWER LINE CONDUCTED EMISSION TEST DATA

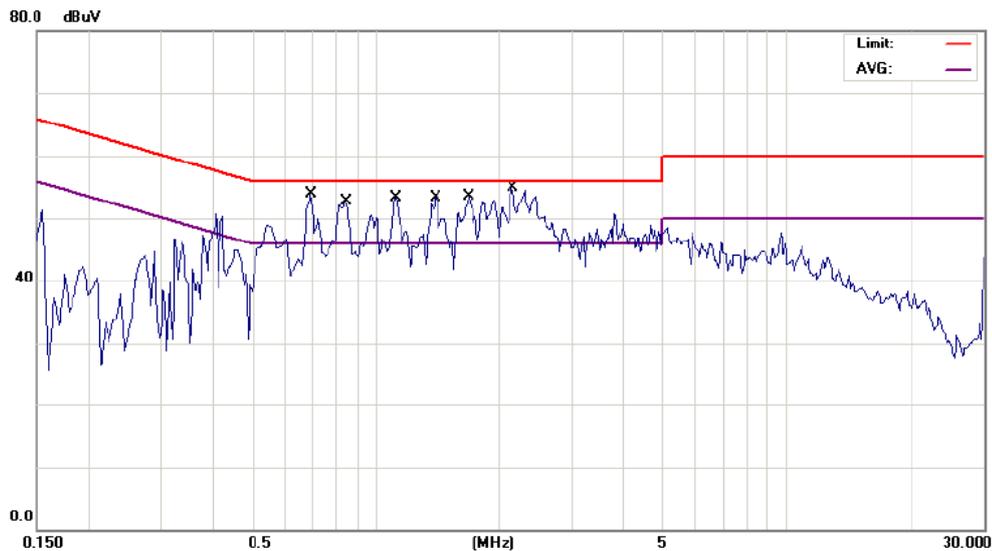
| | | | |
|-----------------|--------------|------------|---------------|
| Operation Mode: | GSM 850 LINK | Test Date: | Feb. 20, 2008 |
| Temperature: | 22 °C | Humidity: | 57 % |
| | | Test By: | Jazz |

Conducted Emission Measurement

File: 英華達 Data :#13

Date: 2008/2/20

Time: 下午 09:01:12



| | | |
|---------------------------------------|---------------------|--------------------|
| Site SGS CONDUCTED #1 | Phase: L1 | Temperature: 22 °C |
| Limit: CISPR22 Class B Conduction(QP) | Power: AC 120V/60Hz | Humidity: 57 % |
| EUT: iPAQ 900 Series | Distance: | Air Pressure: hpa |
| M/N: HSTNH-I18C | | |
| Note: GSM 850 LINK | | |

| No. | Mk. | Freq. MHz | Reading | Factor | Measure- | Limit | Over | Detector | Comment |
|-----|-----|--------------|---------------|--------|--------------|-------|--------|----------|---------|
| | | | Level dBuV | | ment dBuV | | | | |
| 1 | * | 0.6927 | 46.34 | 0.02 | 46.36 | 56.00 | -9.64 | QP | |
| 2 | | 0.6927 | 25.09 | 0.02 | 25.11 | 46.00 | -20.89 | AVG | |
| 3 | | 0.8450 | 45.03 | 0.01 | 45.04 | 56.00 | -10.96 | QP | |
| 4 | | 0.8450 | 28.29 | 0.01 | 28.30 | 46.00 | -17.70 | AVG | |
| 5 | | 1.1026 | 45.10 | 0.01 | 45.11 | 56.00 | -10.89 | QP | |
| 6 | | 1.1026 | 25.77 | 0.01 | 25.78 | 46.00 | -20.22 | AVG | |
| 7 | | 1.3978 | 43.83 | 0.02 | 43.85 | 56.00 | -12.15 | QP | |
| 8 | | 1.3978 | 24.70 | 0.02 | 24.72 | 46.00 | -21.28 | AVG | |
| 9 | | 1.6894 | 41.45 | 0.03 | 41.48 | 56.00 | -14.52 | QP | |
| 10 | | 1.6894 | 25.78 | 0.03 | 25.81 | 46.00 | -20.19 | AVG | |
| 11 | | 2.1654 | 42.97 | 0.04 | 43.01 | 56.00 | -12.99 | QP | |
| 12 | | 2.1654 | 26.75 | 0.04 | 26.79 | 46.00 | -19.21 | AVG | |

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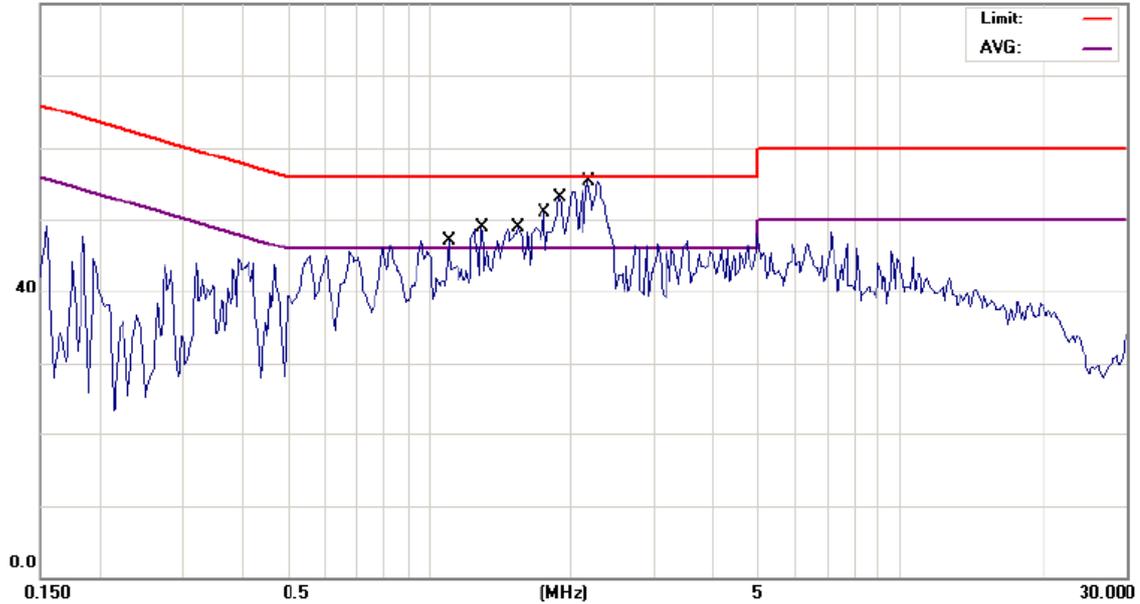
Conducted Emission Measurement

File :英華達 Data :#14

Date: 2008/2/20

Time: 下午 09:07:49

80.0 dBuV



Site SGS CONDUCTED #1

Phase: **N**

Temperature: 22 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 57 %

EUT: iPAQ 900 Series

Distance:

Air Pressure: hpa

M/N: HSTNH-I18C

Note: GSM 850 LINK

| No. | Mk. | Freq. MHz | Reading Level dBuV | Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|--------------|--------------------------|---------------|------------|----------|---------|
| 1 | | 1.0850 | 35.83 | 0.01 | 35.84 | 56.00 | -20.16 | QP | |
| 2 | | 1.0850 | 20.78 | 0.01 | 20.79 | 46.00 | -25.21 | AVG | |
| 3 | | 1.2821 | 35.56 | 0.02 | 35.58 | 56.00 | -20.42 | QP | |
| 4 | | 1.2821 | 20.07 | 0.02 | 20.09 | 46.00 | -25.91 | AVG | |
| 5 | | 1.5411 | 40.12 | 0.03 | 40.15 | 56.00 | -15.85 | QP | |
| 6 | | 1.5411 | 23.53 | 0.03 | 23.56 | 46.00 | -22.44 | AVG | |
| 7 | | 1.7675 | 40.52 | 0.03 | 40.55 | 56.00 | -15.45 | QP | |
| 8 | | 1.7675 | 22.55 | 0.03 | 22.58 | 46.00 | -23.42 | AVG | |
| 9 | | 1.8980 | 41.49 | 0.04 | 41.53 | 56.00 | -14.47 | QP | |
| 10 | | 1.8980 | 23.28 | 0.04 | 23.32 | 46.00 | -22.68 | AVG | |
| 11 | * | 2.1867 | 43.65 | 0.04 | 43.69 | 56.00 | -12.31 | QP | |
| 12 | | 2.1867 | 28.27 | 0.04 | 28.31 | 46.00 | -17.69 | AVG | |

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AC POWER LINE CONDUCTED EMISSION TEST DATA

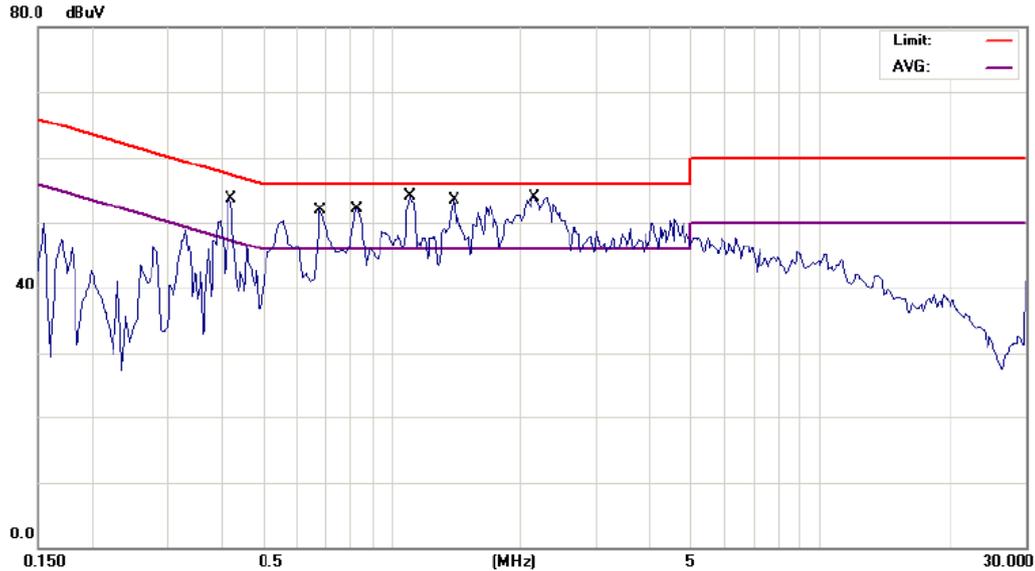
| | | | |
|-----------------|---------------|------------|---------------|
| Operation Mode: | GSM 1900 Link | Test Date: | Feb. 20, 2008 |
| Temperature: | 22 °C | Humidity: | 57 % |
| | | Test By: | Jazz |

Conducted Emission Measurement

File: 英華達Data :#16

Date: 2008/2/20

Time: 下午 09:28:52



| | | |
|---------------------------------------|---------------------|--------------------|
| Site: SGS CONDUCTED #1 | Phase: L1 | Temperature: 22 °C |
| Limit: CISPR22 Class B Conduction(QP) | Power: AC 120V/60Hz | Humidity: 57 % |
| EUT: iPAQ 900 Series | Distance: | Air Pressure: hpa |
| M/N: HSTNH-I18C | | |
| Note: GSM 1900 LINK | | |

| No. | Mk. | Freq. MHz | Reading Level dBuV | Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|--------------|--------------------------|---------------|------------|----------|---------|
| 1 | * | 0.4155 | 48.82 | 0.02 | 48.84 | 57.54 | -8.70 | QP | |
| 2 | | 0.4155 | 30.79 | 0.02 | 30.81 | 47.54 | -16.73 | AVG | |
| 3 | | 0.6827 | 45.07 | 0.02 | 45.09 | 56.00 | -10.91 | QP | |
| 4 | | 0.6827 | 24.14 | 0.02 | 24.16 | 46.00 | -21.84 | AVG | |
| 5 | | 0.8300 | 44.79 | 0.01 | 44.80 | 56.00 | -11.20 | QP | |
| 6 | | 0.8300 | 27.79 | 0.01 | 27.80 | 46.00 | -18.20 | AVG | |
| 7 | | 1.0938 | 45.41 | 0.01 | 45.42 | 56.00 | -10.58 | QP | |
| 8 | | 1.0938 | 24.89 | 0.01 | 24.90 | 46.00 | -21.10 | AVG | |
| 9 | | 1.4090 | 43.79 | 0.02 | 43.81 | 56.00 | -12.19 | QP | |
| 10 | | 1.4090 | 26.34 | 0.02 | 26.36 | 46.00 | -19.64 | AVG | |
| 11 | | 2.1420 | 42.10 | 0.04 | 42.14 | 56.00 | -13.86 | QP | |
| 12 | | 2.1420 | 27.60 | 0.04 | 27.64 | 46.00 | -18.36 | AVG | |

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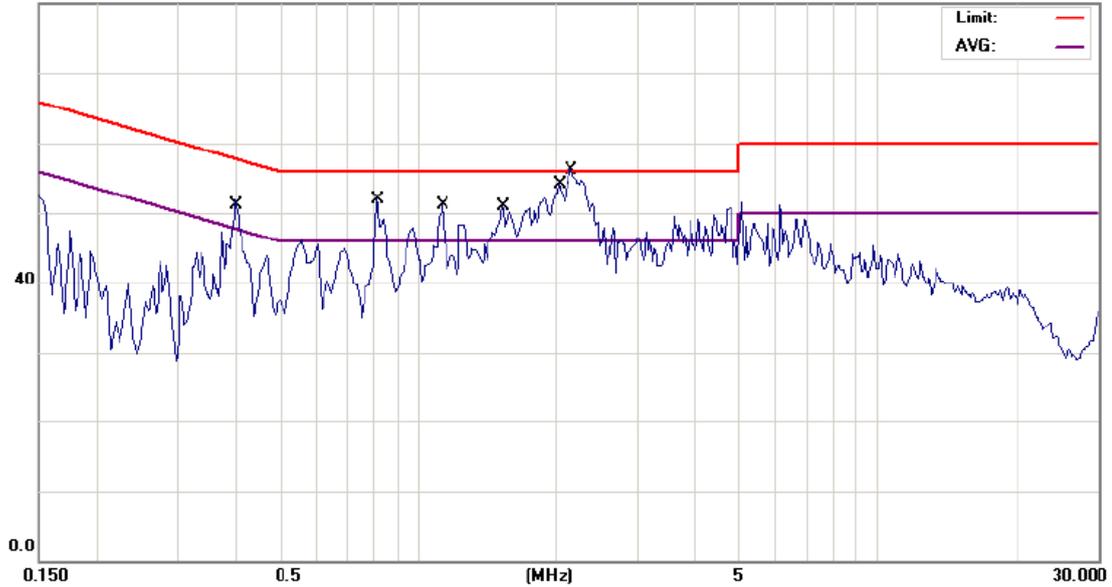
Conducted Emission Measurement

File: 英華達 Data: #15

Date: 2008/2/20

Time: 下午 09:20:02

80.0 dBuV



Site SGS CONDUCTED #1

Phase: N

Temperature: 22 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 57 %

EUT: iPAQ 900 Series

Distance:

Air Pressure: hpa

M/N: HHSTNH-I18C

Note: GSM 1900 LINK

| No. | Mk. | Freq. MHz | Reading Level dBuV | Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|--------------|--------------------------|---------------|------------|----------|---------|
| 1 | | 0.4045 | 43.12 | 0.02 | 43.14 | 57.76 | -14.62 | QP | |
| 2 | | 0.4045 | 33.06 | 0.02 | 33.08 | 47.76 | -14.68 | AVG | |
| 3 | | 0.8155 | 37.60 | 0.01 | 37.61 | 56.00 | -18.39 | QP | |
| 4 | | 0.8155 | 21.39 | 0.01 | 21.40 | 46.00 | -24.60 | AVG | |
| 5 | | 1.1249 | 38.85 | 0.01 | 38.86 | 56.00 | -17.14 | QP | |
| 6 | | 1.1249 | 21.73 | 0.01 | 21.74 | 46.00 | -24.26 | AVG | |
| 7 | | 1.5230 | 40.14 | 0.03 | 40.17 | 56.00 | -15.83 | QP | |
| 8 | | 1.5230 | 23.21 | 0.03 | 23.24 | 46.00 | -22.76 | AVG | |
| 9 | | 1.9927 | 42.54 | 0.04 | 42.58 | 56.00 | -13.42 | QP | |
| 10 | | 1.9927 | 24.63 | 0.04 | 24.67 | 46.00 | -21.33 | AVG | |
| 11 | * | 2.1456 | 44.53 | 0.04 | 44.57 | 56.00 | -11.43 | QP | |
| 12 | | 2.1456 | 28.16 | 0.04 | 28.20 | 46.00 | -17.80 | AVG | |

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AC POWER LINE CONDUCTED EMISSION TEST DATA

| | | | |
|-----------------|---------------|------------|---------------|
| Operation Mode: | EDGE 850 LINK | Test Date: | Feb. 22, 2008 |
| Temperature: | 20 °C | Humidity: | 56 % |
| | | Test By: | Jazz |

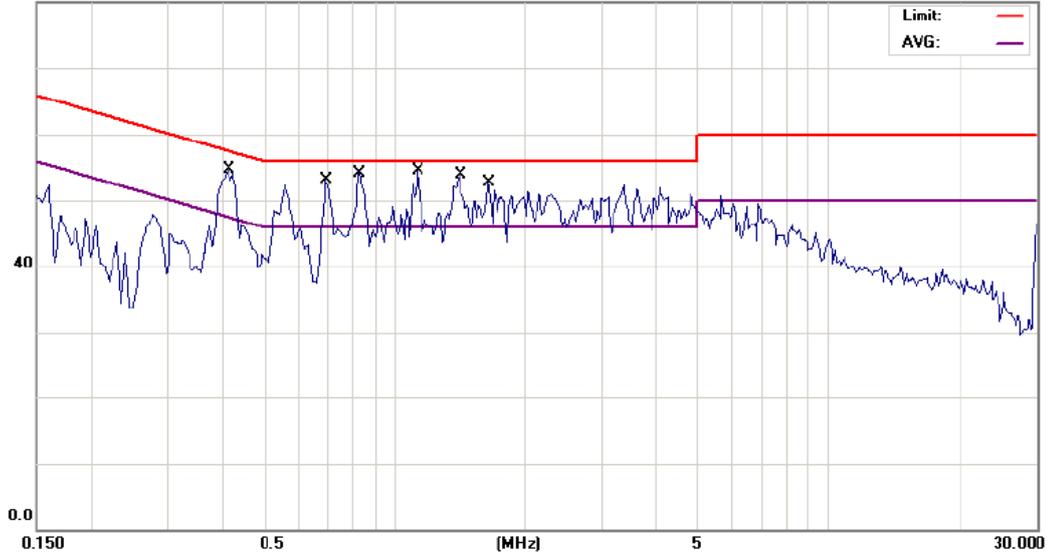
Conducted Emission Measurement

File : 英華達 Data : #28

Date: 2008/02/22

Time: 下午 02:46:05

80.0 dBuV



| | | |
|---------------------------------------|---------------------|--------------------|
| Site SGS CONDUCTED #1 | Phase: L1 | Temperature: 20 °C |
| Limit: CISPR22 Class B Conduction(QP) | Power: AC 120V/60Hz | Humidity: 56 % |
| EUT: iPAQ 900 Series | Distance: | Air Pressure: hpa |
| M/N: HSTNH-I18C | | |
| Note: EDGE 850 LINK | | |

| No. | Mk. | Freq. MHz | Reading Level dBuV | Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|--------------|--------------------------|---------------|------------|----------|---------|
| | | | | | | | | | |
| 1 | * | 0.4178 | 49.71 | 0.02 | 49.73 | 57.49 | -7.76 | QP | |
| 2 | | 0.4178 | 35.23 | 0.02 | 35.25 | 47.49 | -12.24 | AVG | |
| 3 | | 0.6936 | 45.99 | 0.02 | 46.01 | 56.00 | -9.99 | QP | |
| 4 | | 0.6936 | 27.07 | 0.02 | 27.09 | 46.00 | -18.91 | AVG | |
| 5 | | 0.8271 | 47.15 | 0.01 | 47.16 | 56.00 | -8.84 | QP | |
| 6 | | 0.8271 | 31.70 | 0.01 | 31.71 | 46.00 | -14.29 | AVG | |
| 7 | | 1.1358 | 46.35 | 0.01 | 46.36 | 56.00 | -9.64 | QP | |
| 8 | | 1.1358 | 29.05 | 0.01 | 29.06 | 46.00 | -16.94 | AVG | |
| 9 | | 1.4114 | 46.19 | 0.02 | 46.21 | 56.00 | -9.79 | QP | |
| 10 | | 1.4114 | 31.12 | 0.02 | 31.14 | 46.00 | -14.86 | AVG | |
| 11 | | 1.6416 | 44.06 | 0.03 | 44.09 | 56.00 | -11.91 | QP | |
| 12 | | 1.6416 | 28.95 | 0.03 | 28.98 | 46.00 | -17.02 | AVG | |

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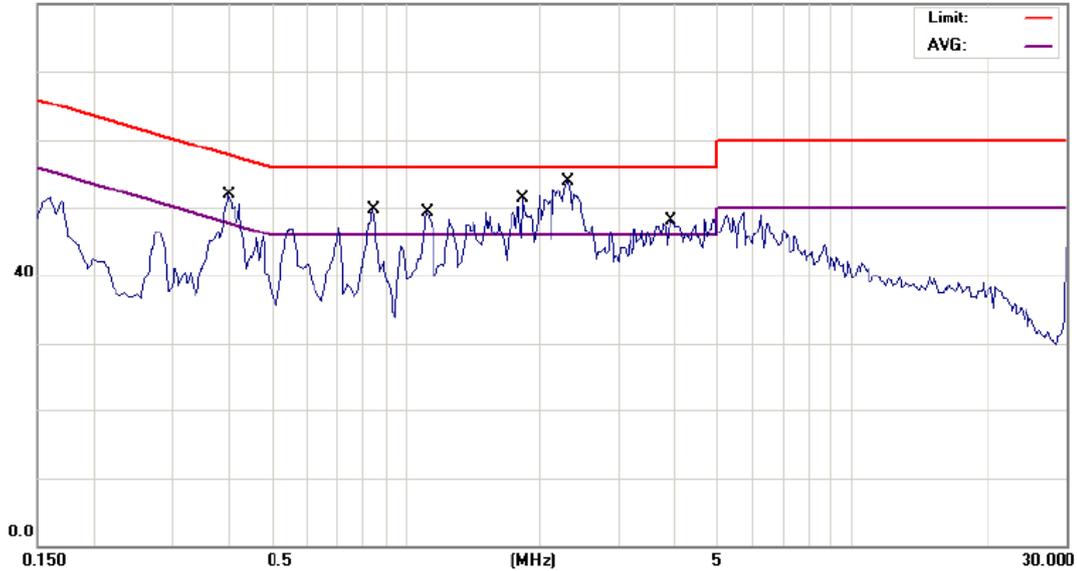
Conducted Emission Measurement

File: 英華達 Data: #29

Date: 2008/02/22

Time: 下午 03:01:11

80.0 dBuV



Site SGS CONDUCTED #1

Phase: N

Temperature: 20 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 56 %

EUT: iPAQ 900 Series

Distance:

Air Pressure: hpa

M/N: HSTNH-I18C

Note: EDGE 850 LINK

| No. | Mk. | Freq. MHz | Reading Level dBuV | Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|--------------|--------------------------|---------------|------------|----------|---------|
| 1 | * | 0.3983 | 46.75 | 0.02 | 46.77 | 57.89 | -11.12 | QP | |
| 2 | | 0.3983 | 35.19 | 0.02 | 35.21 | 47.89 | -12.68 | AVG | |
| 3 | | 0.8467 | 42.78 | 0.01 | 42.79 | 56.00 | -13.21 | QP | |
| 4 | | 0.8467 | 25.35 | 0.01 | 25.36 | 46.00 | -20.64 | AVG | |
| 5 | | 1.1156 | 42.86 | 0.01 | 42.87 | 56.00 | -13.13 | QP | |
| 6 | | 1.1156 | 26.73 | 0.01 | 26.74 | 46.00 | -19.26 | AVG | |
| 7 | | 1.8392 | 39.79 | 0.04 | 39.83 | 56.00 | -16.17 | QP | |
| 8 | | 1.8392 | 27.00 | 0.04 | 27.04 | 46.00 | -18.96 | AVG | |
| 9 | | 2.3007 | 42.89 | 0.04 | 42.93 | 56.00 | -13.07 | QP | |
| 10 | | 2.3007 | 26.12 | 0.04 | 26.16 | 46.00 | -19.84 | AVG | |
| 11 | | 3.9053 | 37.75 | 0.07 | 37.82 | 56.00 | -18.18 | QP | |
| 12 | | 3.9053 | 26.39 | 0.07 | 26.46 | 46.00 | -19.54 | AVG | |

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AC POWER LINE CONDUCTED EMISSION TEST DATA

| | | | |
|-----------------|----------------|------------|---------------|
| Operation Mode: | EDGE 1900 Link | Test Date: | Feb. 23, 2008 |
| Temperature: | 20 °C | Humidity: | 56 % |
| | | Test By: | Jazz |

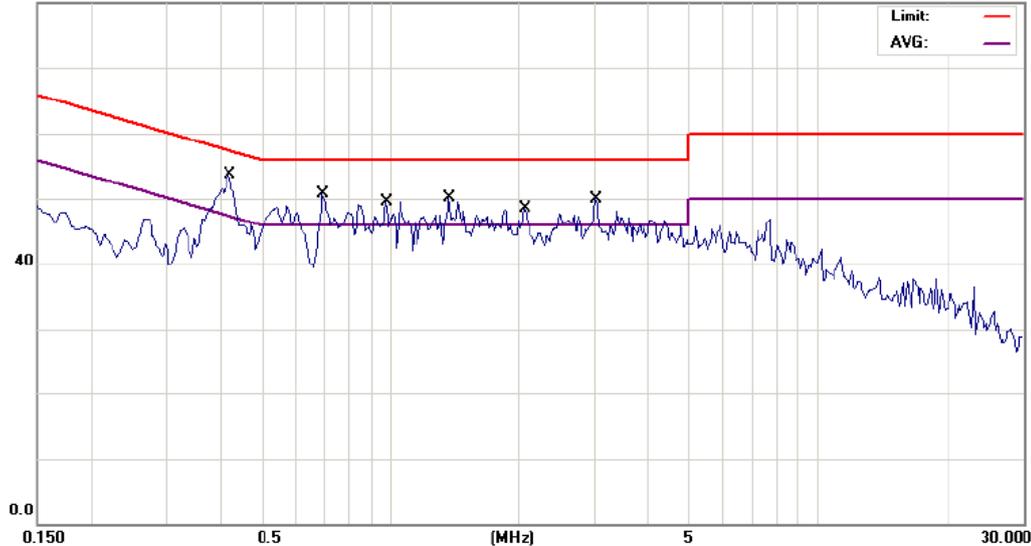
Conducted Emission Measurement

File : 英華達 Data :#30

Date: 2008/02/23

Time: 上午 10:36:26

80.0 dBuV



| | | |
|--|---------------------|--------------------|
| Site SGS CONDUCTED #1 | Phase: L1 | Temperature: 20 °C |
| Limit: CISPR22/11 Class B Conduction(QP) | Power: AC 120V/60Hz | Humidity: 56 % |
| EUT: iPAQ 900 Series | Distance: | Air Pressure: hpa |
| M/N: HSTNH-I18C | | |
| Note: EDGE 1900 LINK | | |

| No. | Mk. | Freq. | Reading Level | Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|--------|---------------|--------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | * | 0.4205 | 44.63 | 0.02 | 44.65 | 57.44 | -12.79 | QP | |
| 2 | | 0.4205 | 33.27 | 0.02 | 33.29 | 47.44 | -14.15 | AVG | |
| 3 | | 0.6962 | 40.65 | 0.02 | 40.67 | 56.00 | -15.33 | QP | |
| 4 | | 0.6962 | 25.19 | 0.02 | 25.21 | 46.00 | -20.79 | AVG | |
| 5 | | 0.9849 | 41.76 | 0.01 | 41.77 | 56.00 | -14.23 | QP | |
| 6 | | 0.9849 | 30.19 | 0.01 | 30.20 | 46.00 | -15.80 | AVG | |
| 7 | | 1.3727 | 41.08 | 0.02 | 41.10 | 56.00 | -14.90 | QP | |
| 8 | | 1.3727 | 30.05 | 0.02 | 30.07 | 46.00 | -15.93 | AVG | |
| 9 | | 2.0572 | 38.17 | 0.04 | 38.21 | 56.00 | -17.79 | QP | |
| 10 | | 2.0572 | 29.59 | 0.04 | 29.63 | 46.00 | -16.37 | AVG | |
| 11 | | 3.0205 | 38.90 | 0.06 | 38.96 | 56.00 | -17.04 | QP | |
| 12 | | 3.0205 | 28.60 | 0.06 | 28.66 | 46.00 | -17.34 | AVG | |

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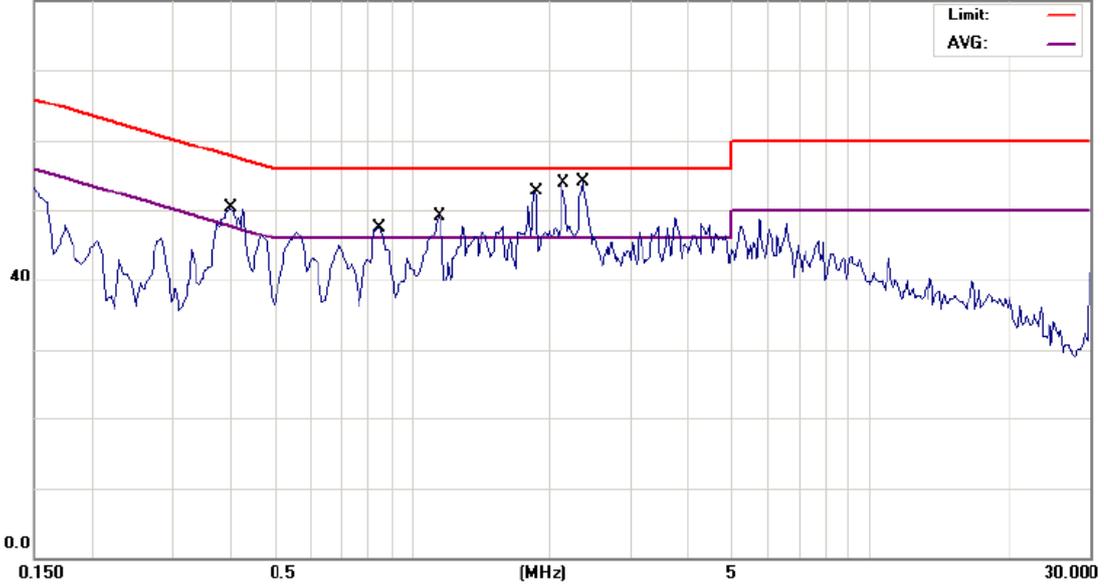
Conducted Emission Measurement

File : 英華達 Data :#31

Date: 2008/02/23

Time: 上午 10:46:58

80.0 dBuV



Site SGS CONDUCTED #1

Phase: N

Temperature: 20 °C

Limit: CISPR22/11 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 56 %

EUT: iPAQ 900 Series

Distance:

Air Pressure: hpa

M/N: HSTNH-I18C

Note: EDGE 1900 LINK

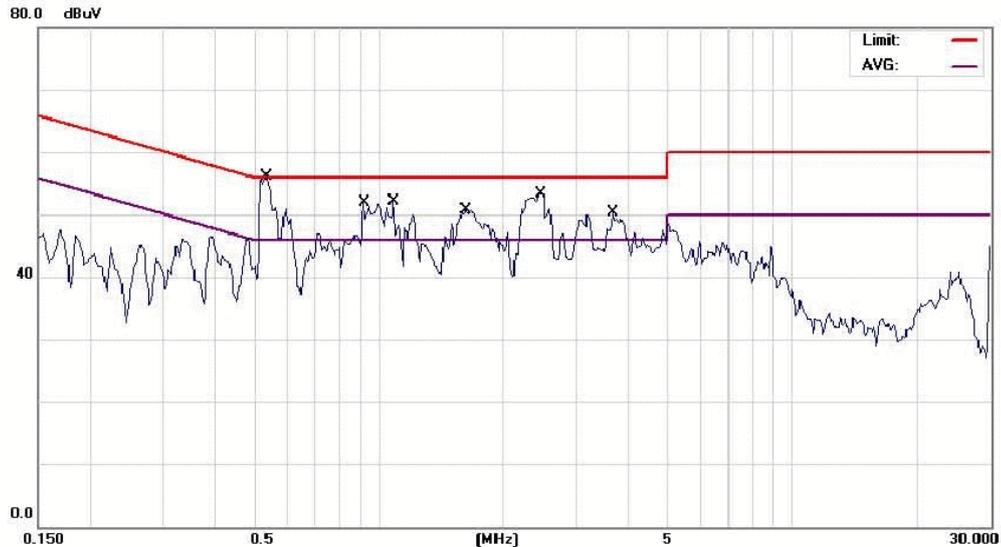
| No. | Mk. | Freq. MHz | Reading Level dBuV | Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|--------------|--------------------------|---------------|------------|----------|---------|
| 1 | * | 0.3997 | 45.57 | 0.02 | 45.59 | 57.86 | -12.27 | QP | |
| 2 | | 0.3997 | 34.82 | 0.02 | 34.84 | 47.86 | -13.02 | AVG | |
| 3 | | 0.8440 | 39.22 | 0.01 | 39.23 | 56.00 | -16.77 | QP | |
| 4 | | 0.8440 | 24.49 | 0.01 | 24.50 | 46.00 | -21.50 | AVG | |
| 5 | | 1.1432 | 39.22 | 0.01 | 39.23 | 56.00 | -16.77 | QP | |
| 6 | | 1.1432 | 24.90 | 0.01 | 24.91 | 46.00 | -21.09 | AVG | |
| 7 | | 1.8610 | 39.93 | 0.04 | 39.97 | 56.00 | -16.03 | QP | |
| 8 | | 1.8610 | 28.21 | 0.04 | 28.25 | 46.00 | -17.75 | AVG | |
| 9 | | 2.1372 | 40.27 | 0.04 | 40.31 | 56.00 | -15.69 | QP | |
| 10 | | 2.1372 | 28.60 | 0.04 | 28.64 | 46.00 | -17.36 | AVG | |
| 11 | | 2.3543 | 37.96 | 0.05 | 38.01 | 56.00 | -17.99 | QP | |
| 12 | | 2.3543 | 25.76 | 0.05 | 25.81 | 46.00 | -20.19 | AVG | |

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AC POWER LINE CONDUCTED EMISSION TEST DATA

| | | | |
|-----------------|--------------|------------|---------------|
| Operation Mode: | WCDMAII Link | Test Date: | Feb. 20, 2008 |
| Temperature: | 26 °C | Humidity: | 64 % |
| | | Test By: | Jazz |

Conducted Emission Measurement

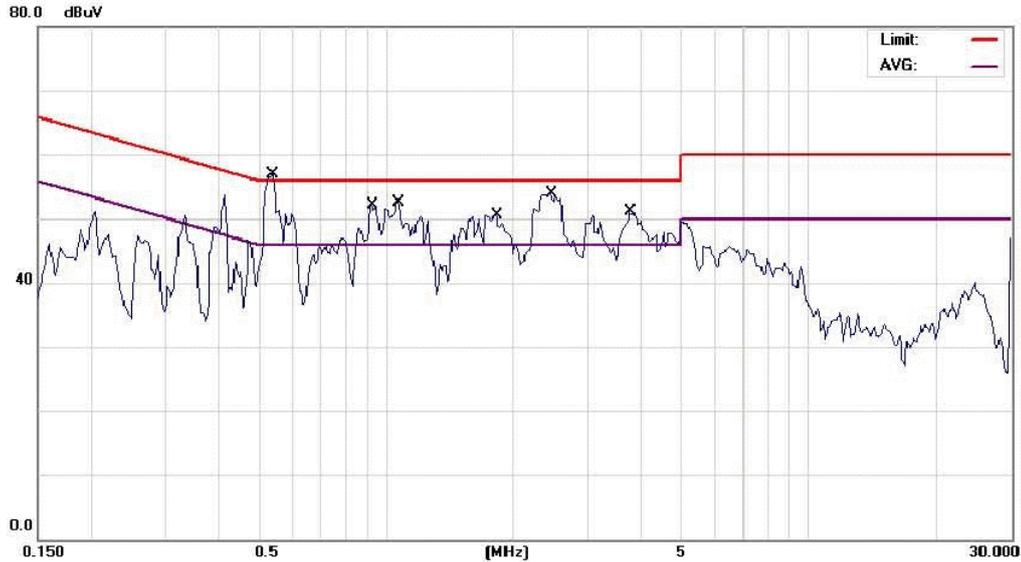


| | | |
|---------------------------------------|---------------------|--------------------|
| Site SGS CONDUCTED #1 | Phase: L1 | Temperature: 26 °C |
| Limit: CISPR22 Class B Conduction(QP) | Power: AC 120V/60HZ | Humidity: 64 % |
| EUT: iPAQ 900 Series | Distance: | Air Pressure: hpa |
| M/N: HHSTNH-I18C | | |
| Note: WCDMA B2 LINK | | |

| No. Mk. | Freq. MHz | Reading Level dBuV | Factor dB | Measurement dBuV | Limit dBuV | Over dB | Detector | Comment |
|---------|-----------|--------------------|-----------|------------------|------------|---------|----------|---------|
| 1 | 0.5359 | 53.32 | 0.02 | 53.34 | 56.00 | -2.66 | QP | |
| 2 * | 0.5359 | 48.17 | 0.02 | 48.19 | 46.00 | 2.19 | AVG | |
| 3 | 0.9219 | 47.65 | 0.01 | 47.66 | 56.00 | -8.34 | QP | |
| 4 | 0.9219 | 36.96 | 0.01 | 36.97 | 46.00 | -9.03 | AVG | |
| 5 | 1.0887 | 45.48 | 0.01 | 45.49 | 56.00 | -10.51 | QP | |
| 6 | 1.0887 | 37.75 | 0.01 | 37.76 | 46.00 | -8.24 | AVG | |
| 7 | 1.6299 | 40.24 | 0.03 | 40.27 | 56.00 | -15.73 | QP | |
| 8 | 1.6299 | 35.86 | 0.03 | 35.89 | 46.00 | -10.11 | AVG | |
| 9 | 2.4549 | 47.26 | 0.05 | 47.31 | 56.00 | -8.69 | QP | |
| 10 | 2.4549 | 38.14 | 0.05 | 38.19 | 46.00 | -7.81 | AVG | |
| 11 | 3.6995 | 43.13 | 0.07 | 43.20 | 56.00 | -12.80 | QP | |
| 12 | 3.6995 | 29.21 | 0.07 | 29.28 | 46.00 | -16.72 | AVG | |

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Conducted Emission Measurement



| | | | | | |
|--------|--------------------------------|-----------|--------------|---------------|-------|
| Site | SGS CONDUCTED #1 | Phase: | N | Temperature: | 26 °C |
| Limit: | CISPR22 Class B Conduction(QP) | Power: | AC 120V/60Hz | Humidity: | 64 % |
| EUT: | iPAQ 900 Series | Distance: | | Air Pressure: | hpa |
| M/N: | HHSTNH-I18C | | | | |
| Note: | WCDMA B2 LINK | | | | |

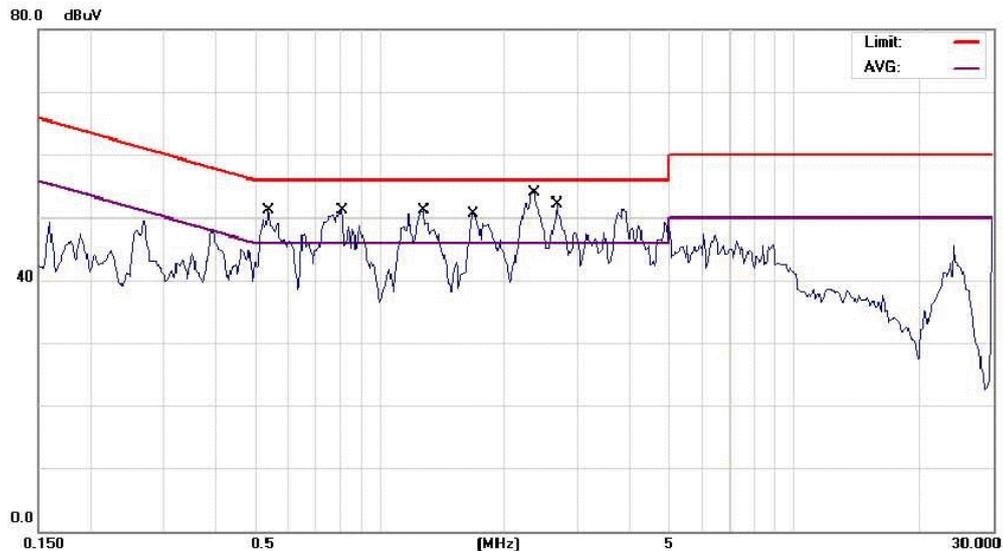
| No. | Mk. | Freq. | Reading Level | Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|--------|---------------|--------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | | 0.5440 | 53.34 | 0.02 | 53.36 | 56.00 | -2.64 | QP | |
| 2 | * | 0.5440 | 45.66 | 0.02 | 45.68 | 46.00 | -0.32 | AVG | |
| 3 | | 0.9230 | 47.30 | 0.01 | 47.31 | 56.00 | -8.69 | QP | |
| 4 | | 0.9230 | 39.69 | 0.01 | 39.70 | 46.00 | -6.30 | AVG | |
| 5 | | 1.0677 | 42.41 | 0.01 | 42.42 | 56.00 | -13.58 | QP | |
| 6 | | 1.0677 | 37.75 | 0.01 | 37.76 | 46.00 | -8.24 | AVG | |
| 7 | | 1.8236 | 45.30 | 0.03 | 45.33 | 56.00 | -10.67 | QP | |
| 8 | | 1.8236 | 34.03 | 0.03 | 34.06 | 46.00 | -11.94 | AVG | |
| 9 | | 2.4501 | 48.27 | 0.05 | 48.32 | 56.00 | -7.68 | QP | |
| 10 | | 2.4501 | 35.54 | 0.05 | 35.59 | 46.00 | -10.41 | AVG | |
| 11 | | 3.7898 | 44.88 | 0.07 | 44.95 | 56.00 | -11.05 | QP | |
| 12 | | 3.7898 | 36.78 | 0.07 | 36.85 | 46.00 | -9.15 | AVG | |

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AC POWER LINE CONDUCTED EMISSION TEST DATA

| | | | |
|-----------------|-------------|------------|---------------|
| Operation Mode: | WCDMAV Link | Test Date: | Feb. 20, 2008 |
| Temperature: | 26 °C | Humidity: | 64 % |
| | | Test By: | Jazz |

Conducted Emission Measurement

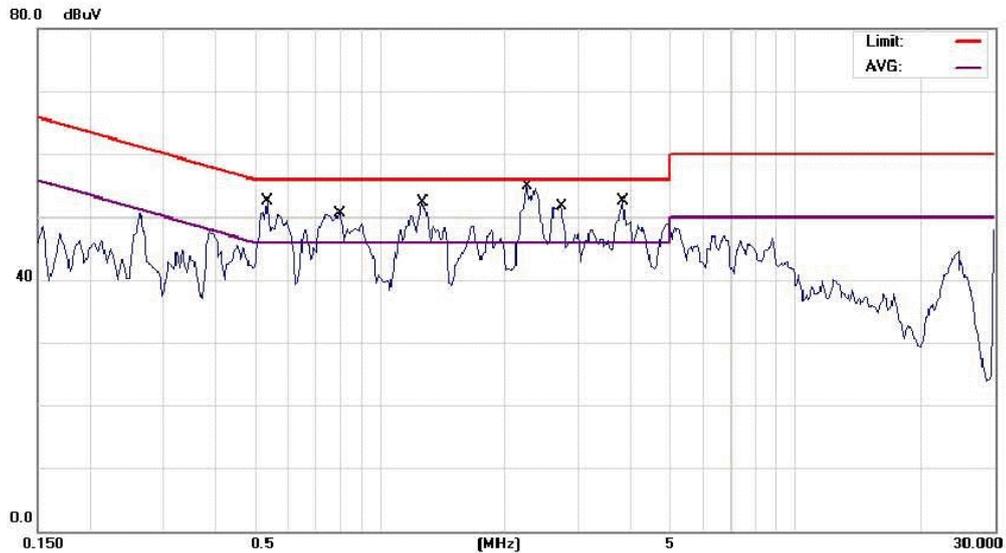


| | | |
|--|--|--|
| Site SGS CONDUCTED #1 Limit: CISPR22 Class B Conduction(QP) EUT: IPAQ 900 Series M/N: HHSTNH-I18C Note: WCDMA B5 LINK | Phase: L1 Power: AC 120V/60Hz Distance: | Temperature: 26 °C Humidity: 64 % Air Pressure: hpa |
|--|--|--|

| No. | Mk. | Freq. MHz | Reading | Factor | Measure- | Limit | Over | Detector | Comment |
|-----|-----|--------------|---------------|--------|--------------|-------|--------|----------|---------|
| | | | Level dBuV | | ment dBuV | | | | |
| 1 | | 0.5406 | 48.49 | 0.02 | 48.51 | 56.00 | -7.49 | QP | |
| 2 | | 0.5406 | 40.21 | 0.02 | 40.23 | 46.00 | -5.77 | AVG | |
| 3 | | 0.8096 | 47.29 | 0.01 | 47.30 | 56.00 | -8.70 | QP | |
| 4 | | 0.8096 | 36.98 | 0.01 | 36.99 | 46.00 | -9.01 | AVG | |
| 5 | | 1.2833 | 47.00 | 0.02 | 47.02 | 56.00 | -8.98 | QP | |
| 6 | | 1.2833 | 40.90 | 0.02 | 40.92 | 46.00 | -5.08 | AVG | |
| 7 | | 1.6710 | 44.24 | 0.03 | 44.27 | 56.00 | -11.73 | QP | |
| 8 | | 1.6710 | 35.82 | 0.03 | 35.85 | 46.00 | -10.15 | AVG | |
| 9 | | 2.3603 | 48.83 | 0.05 | 48.88 | 56.00 | -7.12 | QP | |
| 10 | * | 2.3603 | 41.24 | 0.05 | 41.29 | 46.00 | -4.71 | AVG | |
| 11 | | 2.6946 | 47.29 | 0.05 | 47.34 | 56.00 | -8.66 | QP | |
| 12 | | 2.6946 | 38.87 | 0.05 | 38.92 | 46.00 | -7.08 | AVG | |

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Conducted Emission Measurement



| | | |
|---------------------------------------|---------------------|--------------------|
| Site SGS CONDUCTED #1 | Phase: N | Temperature: 26 °C |
| Limit: CISPR22 Class B Conduction(QP) | Power: AC 120V/60HZ | Humidity: 64 % |
| EUT: iPAQ 900 Series | Distance: | Air Pressure: hpa |
| M/N: HHSTNH-I18C | | |
| Note: WCDMA B5 LINK | | |

| No. | Mk. | Freq. | Reading Level | Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|--------|---------------|--------|-------------|-------|-------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | | 0.5375 | 51.53 | 0.02 | 51.55 | 56.00 | -4.45 | QP | |
| 2 | | 0.5375 | 44.40 | 0.02 | 44.42 | 46.00 | -1.58 | AVG | |
| 3 | | 0.7997 | 49.41 | 0.01 | 49.42 | 56.00 | -6.58 | QP | |
| 4 | * | 0.7997 | 44.46 | 0.01 | 44.47 | 46.00 | -1.53 | AVG | |
| 5 | | 1.2643 | 48.51 | 0.02 | 48.53 | 56.00 | -7.47 | QP | |
| 6 | | 1.2643 | 40.30 | 0.02 | 40.32 | 46.00 | -5.68 | AVG | |
| 7 | | 2.2557 | 47.02 | 0.04 | 47.06 | 56.00 | -8.94 | QP | |
| 8 | | 2.2557 | 39.39 | 0.04 | 39.43 | 46.00 | -6.57 | AVG | |
| 9 | | 2.7234 | 47.87 | 0.05 | 47.92 | 56.00 | -8.08 | QP | |
| 10 | | 2.7234 | 43.30 | 0.05 | 43.35 | 46.00 | -2.65 | AVG | |
| 11 | | 3.8503 | 46.84 | 0.07 | 46.91 | 56.00 | -9.09 | QP | |
| 12 | | 3.8503 | 39.46 | 0.07 | 39.53 | 46.00 | -6.47 | AVG | |

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