

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: **TQ5-E01****FCC ID:** **SP2-TQ5-E01****Report No.:** **EH/2009/A0021****Issue Date:** **Oct. 28, 2009****FCC Rule Part:** **§15.247, DTS****Prepared for:** **Toshiba Information Systems (UK) Ltd, Mobile Communications Division****Delta House, The crescent Southwood Business Park, Farnborough, GU14 0NL, UK****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: Toshiba Information Systems (UK) Ltd, Mobile Communications Division

Delta House, The crescent Southwood Business Park, Farnborough, GU14 0NL, UK

Product Name: TQ5-E01

FCC ID: SP2-TQ5-E01

File Number: EH/2009/A0021

Date of test: Oct. 14, 2009 ~ Oct. 27, 2009

Date of EUT Received: Oct. 14, 2009

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 ANSI C63.4 (2003) 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 Rules Part 15.247.

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

Test By:



Date:

Oct. 28, 2009

Sky Wang / Asst. Supervisor

Prepared By:



Date:

Oct. 28, 2009

Eva Kao / Asst. Supervisor

Approved By:



Date:

Oct. 28, 2009

Vincent Su/Manager

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Version

| Version No. | Date | Description |
|-------------|---------------|------------------------------|
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1 GENERAL INFORMATION

1.1 Product Description

General:

| | | |
|-------------------------|--|--|
| Product Name | TQ5-E01 | |
| Data Cable (USB) | Two provides, Model: HPC1508-010010, HPC1519-010010, Supplier: Hoshiden | |
| Simple Hands-free (SHF) | Model: HDH0669-010221(EARPHONE), KRJ0003-010020 (MIC), Supplier: Hoshiden | |
| Power Supply | 3.7 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter | |
| | Battery: | Model No.: ES032ECJ (TS-BTR008), Supplier: Sanyo GS |
| | Adapter: | Model: TS-ACC001-EU, TS-ACC001-UK Supplier: BYD Company Limited |

GSM and WCDMA:

| Cellular Phone Standards Frequency Range and Power: | Operating Frequency | | Rated Power |
|--|---------------------------------|-----------------------|-------------|
| | GSM/GPRS/EDGE 850, Class 12 | 824.2 MHz– 848.8 MHz | 33 dBm |
| | GSM/GPRS/EDGE 900, Class 12 | 880.2MHz – 914.8MHz | 33 dBm |
| | GSM/GPRS/EDGE 1800, Class 12 | 1710.2MHz – 1784.8MHz | 30 dBm |
| | GSM/GPRS/EDGE 1900, Class 12 | 1850.2MHz – 1909.8MHz | 30 dBm |
| | WCDMA/HSUPA/HSDPA Band I | 1922.4MHz –1977.6MHz | 24 dBm |
| | WCDMA/HSUPA/HSDPA Band VIII | 882.4MHz –912.6MHz | 24 dBm |
| Hardware Version: | CS1 | | |
| Software Version: | N/A | | |
| IMEI: | 004401127000901 | | |

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WLAN: 802.11 b/g:

| | |
|------------------------|--|
| Frequency Range: | 2412 – 2462 MHz |
| Channel number: | 11 channels |
| Transmit Power: | <input checked="" type="checkbox"/> 802.11 b: 17.33dBm (Peak) <input checked="" type="checkbox"/> 802.11 g: 15.87dBm (Peak) |
| Modulation Technology: | <input checked="" type="checkbox"/> DSSS, <input checked="" type="checkbox"/> OFDM |
| Modulation type: | CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM |
| Transition Rate: | 802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps |
| Antenna Designation: | PIFA Antenna, 0.7dBi. |

Bluetooth:

| | |
|----------------------|---|
| Bluetooth Version: | V2.0 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK) |
| Channel number: | 79 channels |
| Modulation type: | Frequency Hopping Spread Spectrum |
| Transmit Power: | -0.12 dBm (Peak) |
| Frequency Range: | 2.402GHz – 2.480GHz |
| Dwell Time: | <= 0.4s |
| Operating Mode: | Point-to-Point |
| Antenna Designation: | PIFA Antenna, 0.7dBi. |

GPS:

| | |
|---------------------------------|---------------------|
| Receiver Frequency | L1 Band, 1575.42MHz |
| Frequency Conversion oscillator | 19.2MHz |
| Antenna Designation | mono pole |

This test report applies for 802.11b/g.

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: SP2-TQ5-E01** filing to comply with Section 15.247 of the FCC Part 15, Subpart E Rules.

1.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung 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 is: 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.

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

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2.4 Configuration of Tested System

Fig. 2-1 AC Power line and Radiated Emission Configuration

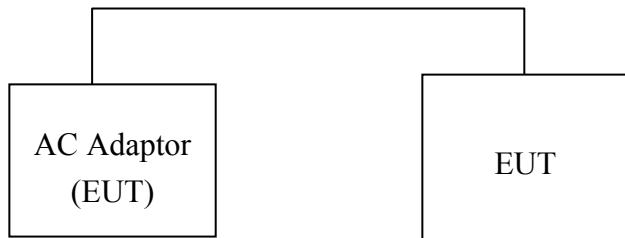


Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/ Type No. | Series No. | Data Cable | Power Cord |
|------|-----------|-----------|--------------------|------------|------------|------------|
| 1. | N/A | | | | | |

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3 SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|---------------|---|-----------|
| §15.207(a) | AC Power Line Conducted Emission | Compliant |
| §15.247(b) | Peak Output Power | Compliant |
| §15.247(a)(2) | 6dB Bandwidth | Compliant |
| §15.247(d) | 100 KHz Bandwidth of Frequency Band Edges | Compliant |
| §15.247(d) | TX Spurious Emission | Compliant |
| §15.247 (e) | Peak Power Density | Compliant |
| §15.203 | Antenna Requirement | Compliant |

4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Test program used to control the EUT for staying in continuous transmitting is programmed.

802.11 b mode: Channel low (2412MHz)、mid (2437MHz) and high (2462MHz) with 1Mbps highest data rate are chosen for above testing.

802.11 g mode: Channel low (2412MHz)、mid (2437MHz) and high (2462MHz) with 6Mbps highest data rate are chosen for above testing.

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for Bluetooth Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

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5 CONDUCTED EMISSION TEST

5.1 Standard Applicable:

According to §15.207, frequency range within 150KHz to 30MHz shall not exceed the Limit table as below.

| 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.

5.2 Measurement Equipment Used:

| AC Power Line Conducted Emission Test Site | | | | | |
|--|------------|-------------------------|------------------|--------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESCS30 | 828985/004 | 09/16/2009 | 09/15/2010 |
| LISN | Rolf-Heine | NNB-2/16Z | 99012 | 02/02/2009 | 02/01/2010 |
| LISN | FCC | FCC-LISN-50/250-25-2-01 | 04034 | 02/02/2009 | 02/01/2010 |
| Coaxial Cables | N/A | WK CE Cable | N/A | 10/30/2008 | 10/29/2009 |

5.3 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2003.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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5.4 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.

5.5 Measurement Result:

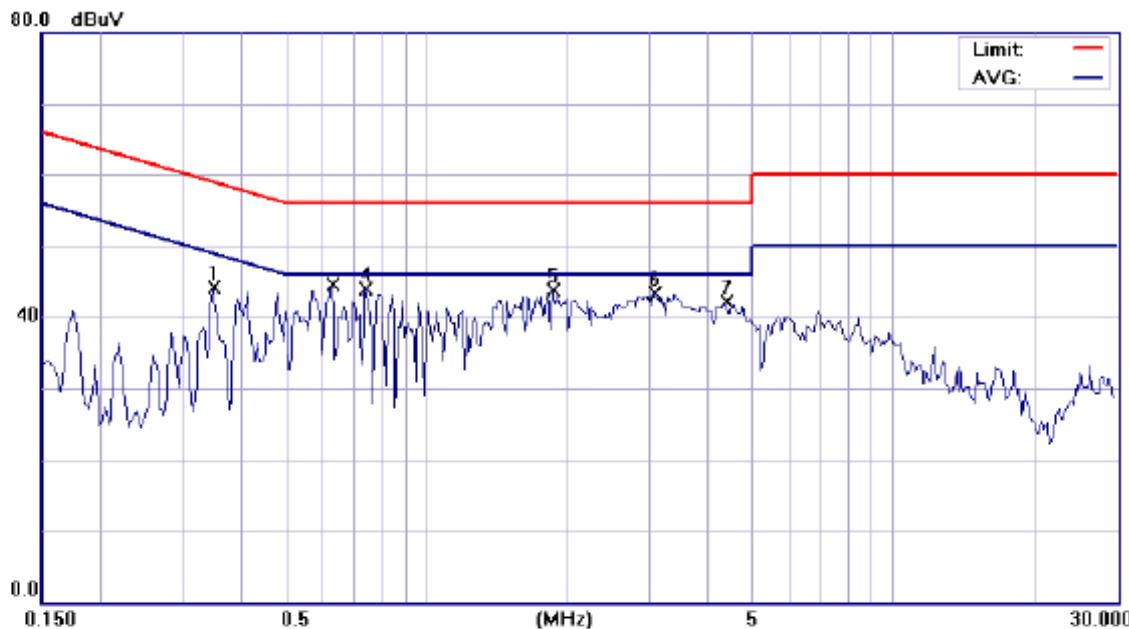
The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Note: Refer to next page for measurement data and plots.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

| | | | |
|-----------------|-------------|------------|---------------|
| Operation Mode: | Normal mode | Test Date: | Oct. 24, 2009 |
| | | Test By: | Jason |



Site SGS CONDUCTED #1

Limit: CISPR22/11/EN55022 Class B

EUT: Mobile phone

M/N: TG0200

Note: BT+WLAN MODE

Phase: **L1**

Temperature: 25 °C

Power: AC 120V/60Hz

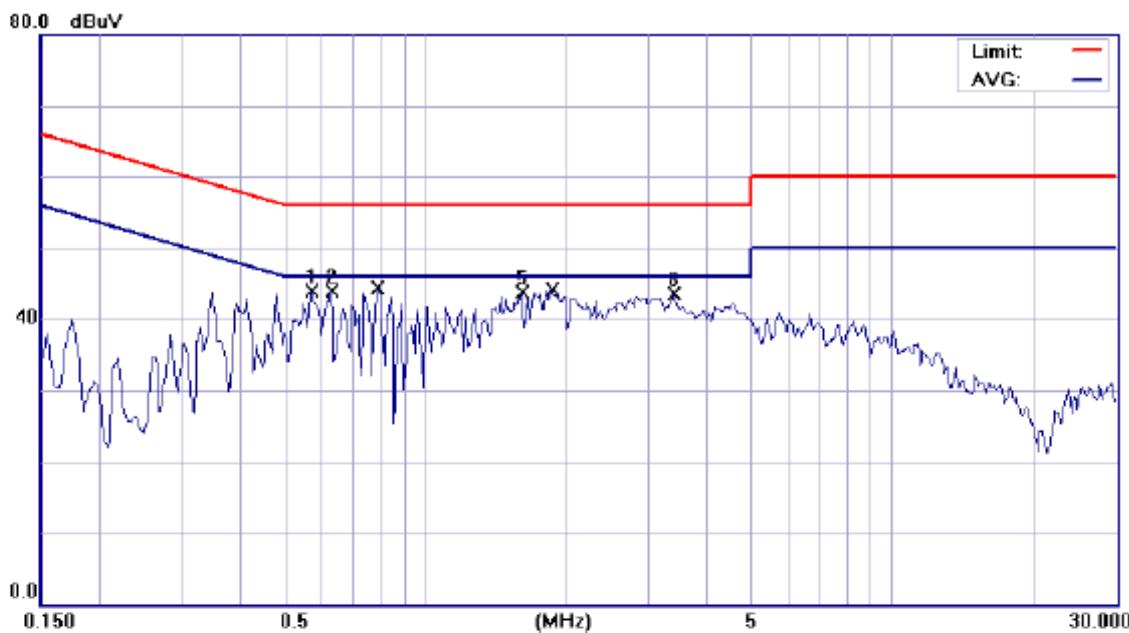
Humidity: 61 %

Distance:

Air Pressure: hpa

| No. | Mk. | Freq. | Reading | Factor | Measure- | Limit | Over | | |
|-----|-----|--------|---------|--------|----------|-------|--------|----------|---------|
| | | | Level | | dBuV | | dB | Detector | Comment |
| 1 | | 0.3500 | 44.04 | 0.09 | 44.13 | 58.96 | -14.83 | peak | |
| 2 | * | 0.6300 | 44.17 | 0.08 | 44.25 | 56.00 | -11.75 | QP | |
| 3 | | 0.6300 | 31.29 | 0.08 | 31.37 | 46.00 | -14.63 | AVG | |
| 4 | | 0.7400 | 43.83 | 0.08 | 43.91 | 56.00 | -12.09 | peak | |
| 5 | | 1.8700 | 43.49 | 0.12 | 43.61 | 56.00 | -12.39 | peak | |
| 6 | | 3.0900 | 43.13 | 0.14 | 43.27 | 56.00 | -12.73 | peak | |
| 7 | | 4.3900 | 41.98 | 0.16 | 42.14 | 56.00 | -13.86 | peak | |

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Site: SGS CONDUCTED #1

Phase: **N**

Temperature: 25 °C

Limit: CISPR22/11/EN55022 Class B

Power: AC 120V/60Hz

Humidity: 61 %

EUT: Mobile phone

Distance:

Air Pressure: hpa

M/N: TG0200

Note: BT+WLAN MODE

| No. | Mk. | Freq. | Reading | Factor | Measure- | Limit | Over | Detector | Comment |
|-----|-----|--------|---------|--------|----------|-------|--------|----------|---------|
| | | | Level | | ment | | | | |
| MHz | | dBuV | dB | | dBuV | dBuV | dB | | |
| 1 | * | 0.5700 | 43.93 | 0.07 | 44.00 | 56.00 | -12.00 | peak | |
| 2 | | 0.6300 | 43.84 | 0.08 | 43.92 | 56.00 | -12.08 | peak | |
| 3 | | 0.7900 | 42.17 | 0.08 | 42.25 | 56.00 | -13.75 | QP | |
| 4 | | 0.7900 | 32.88 | 0.08 | 32.96 | 46.00 | -13.04 | AVG | |
| 5 | | 1.6100 | 43.53 | 0.11 | 43.64 | 56.00 | -12.36 | peak | |
| 6 | | 1.8700 | 12.92 | 0.12 | 13.04 | 56.00 | -42.96 | QP | |
| 7 | | 1.8700 | 32.55 | 0.12 | 32.67 | 46.00 | -13.33 | AVG | |
| 8 | | 3.4100 | 43.28 | 0.14 | 43.42 | 56.00 | -12.58 | peak | |

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6 PEAK OUTPUT POWER MEASUREMENT

6.1 Standard Applicable:

According to §15.247(b)

(3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(c) Operation with directional antenna gains greater than 6 dBi.

(1) Fixed point-to-point operation:

(i) Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

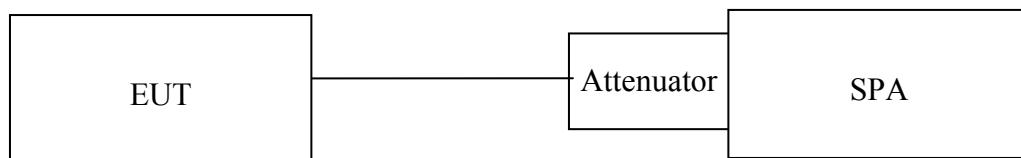
(ii) Systems operating in the 5725-5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted output power.

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6.2 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|--------------|---------------------|----------------------|------------------|-----------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/19/2008 | 04/18/2010 |
| Spectrum Analyzer | Agilent | E4440A | MY45304525 | 01/23/2008 | 01/22/2010 |
| DC Block | Agilent | BLK-18 | 155452 | 07/05/2009 | 07/04/2010 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA | N/A | 01/05/2009 | 01/04/2010 |
| Attenuator | Mini-Circuit | BW-S6W5 | 001 | 07/05/2009 | 07/04/2010 |
| Attenuator | Mini-Circuit | BW-S10W5 | 001 | 07/05/2009 | 07/04/2010 |
| Attenuator | Mini-Circuit | BW-S20W5 | 001 | 07/05/2009 | 07/04/2010 |
| Splitter | Agilent | 11636B | N/A | 07/05/2009 | 07/04/2010 |

6.3 .Test Set-up:



6.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Channel power function, RBW, VBW = 1MHz, Bandwidth=26dB occupied Bandwidth)
3. Record the max. reading.
4. Repeat above procedures until all frequency measured were complete.

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6.5 Measurement Result:

802.11b Mode

| Cable loss = 0 | | Peak Power Output | | | |
|--------------------|-----------|-------------------|-------|-------|--------|
| Frequency (MHz) | Data Rate | | | | Limit |
| | 1 | 2 | 5.5 | 11 | |
| 2412 | 17.33 | 17.28 | 17.19 | 17.16 | 30 dBm |
| 2437 | 17.14 | 17.1 | 17.06 | 17.02 | 30 dBm |
| 2462 | 17.09 | 17.05 | 17.01 | 16.97 | 30 dBm |

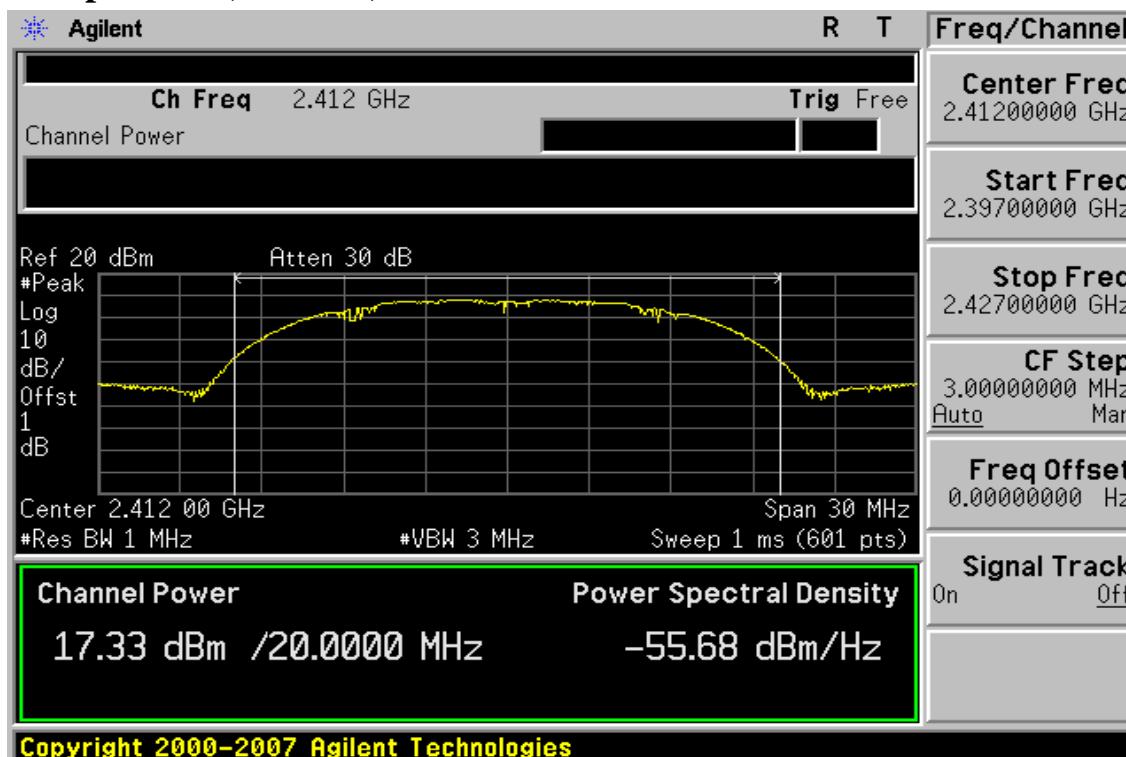
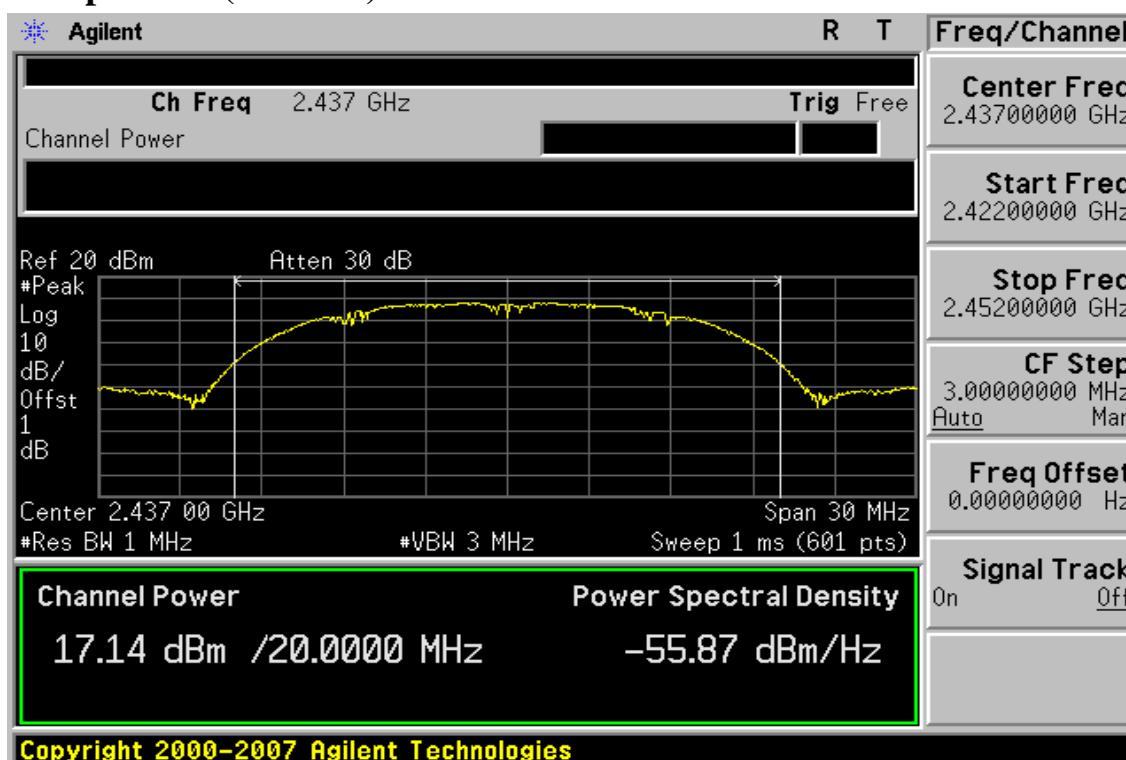
802.11g Mode

| Cable loss = 0 | | Peak Power Output | | | | | | | |
|--------------------|-----------|-------------------|-------|-------|-------|-------|-------|-------|--------|
| Frequency (MHz) | Data Rate | | | | | | | | Limit |
| | 6 | 9 | 12 | 18 | 24 | 36 | 48 | 54 | |
| 2412 | 15.49 | 15.41 | 15.38 | 15.29 | 15.21 | 15.14 | 15.02 | 14.94 | 30 dBm |
| 2437 | 15.87 | 15.85 | 15.77 | 15.67 | 15.6 | 15.44 | 15.31 | 15.23 | 30 dBm |
| 2462 | 15.2 | 15.13 | 15.09 | 15 | 14.94 | 14.82 | 14.75 | 14.62 | 30 dBm |

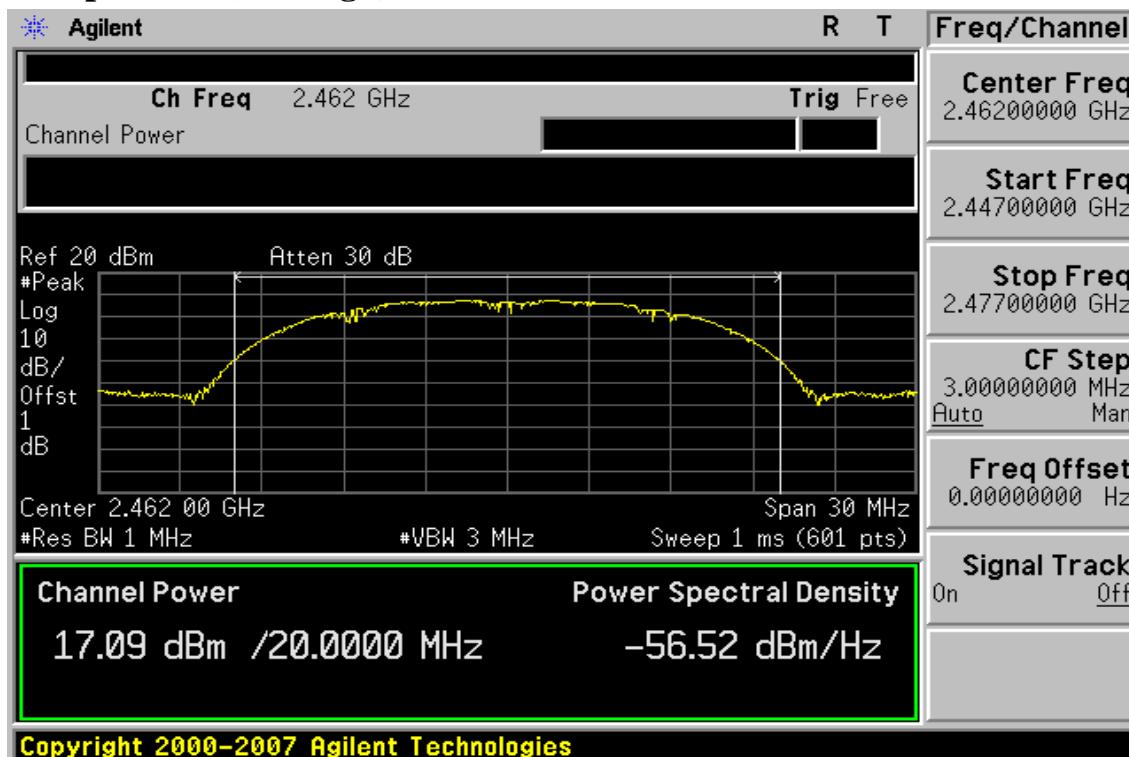
offset: 1dB

Note: Refer to next page for plots.

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802.11b, 1Mbps**Power Output Plot (CH Low)****Power Output Plot (CH Mid)**

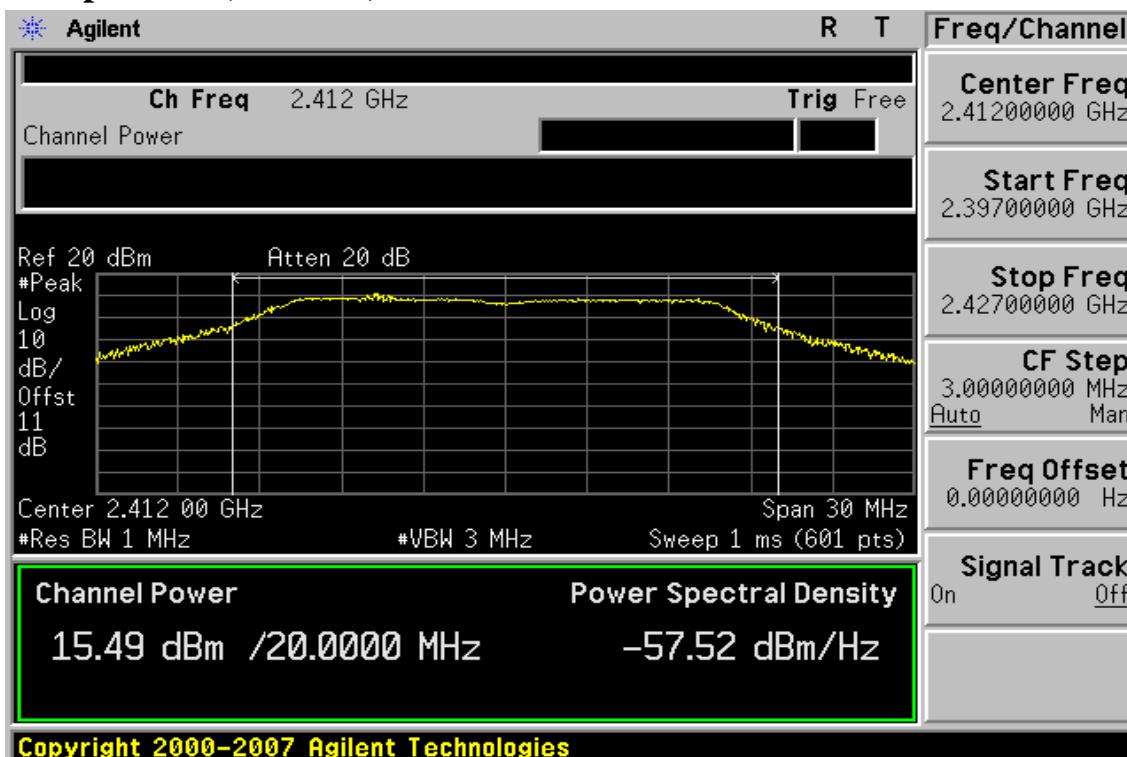
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Power Output Plot (CH High)

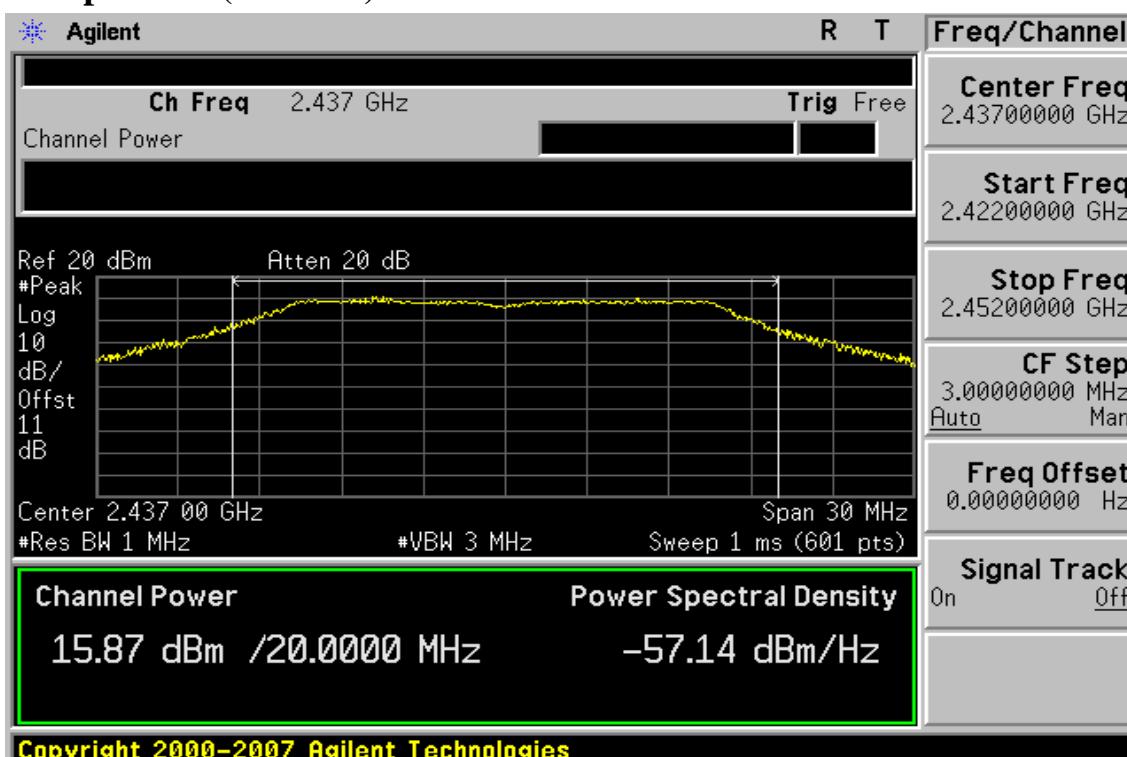
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802.11g, 6Mbps

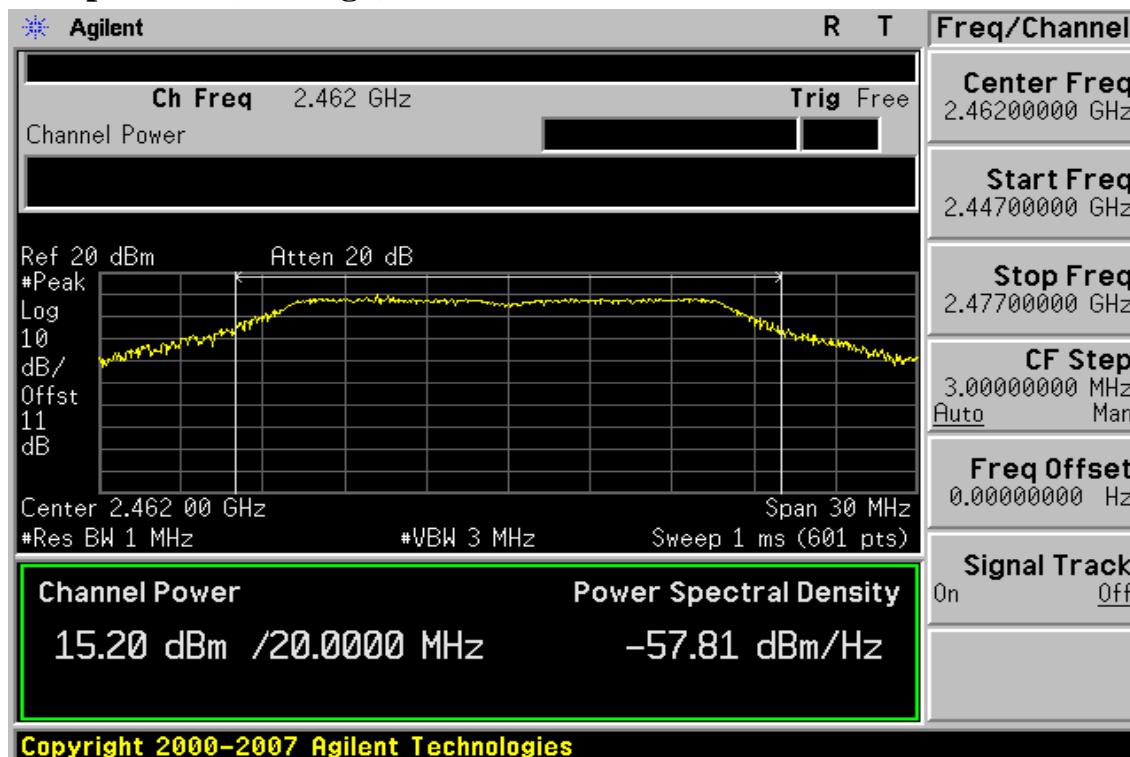
Power Output Plot (CH Low)



Power Output Plot (CH Mid)



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Power Output Plot (CH High)

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7 6dB Bandwidth

7.1 Standard Applicable:

According to §15.247(a)(2), Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500kHz.

7.2 Measurement Equipment Used:

Refer to section 6.2 for details.

7.3 Test Set-up:

Refer to section 6.3 for details.

7.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the 3.antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW=100KHz, VBW = 3*RBW, Span= 30MHz, Sweep=auto
4. Mark the peak frequency and -6dB (upper and lower) frequency.
5. Repeat above procedures until all frequency measured were complete.

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7.5 Measurement Result:

802.11b

| Frequency (MHz) | Bandwidth (MHz) | Bandwidth (KHz) | Result |
|--------------------|--------------------|--------------------|--------|
| 2412 | 12.179 | > 500 | PASS |
| 2437 | 12.890 | > 500 | PASS |
| 2462 | 12.708 | > 500 | PASS |

802.11b

| Frequency (MHz) | Bandwidth (MHz) | Bandwidth (KHz) | Result |
|--------------------|--------------------|--------------------|--------|
| 2412 | 16.484 | > 500 | PASS |
| 2437 | 16.499 | > 500 | PASS |
| 2462 | 16.479 | > 500 | PASS |

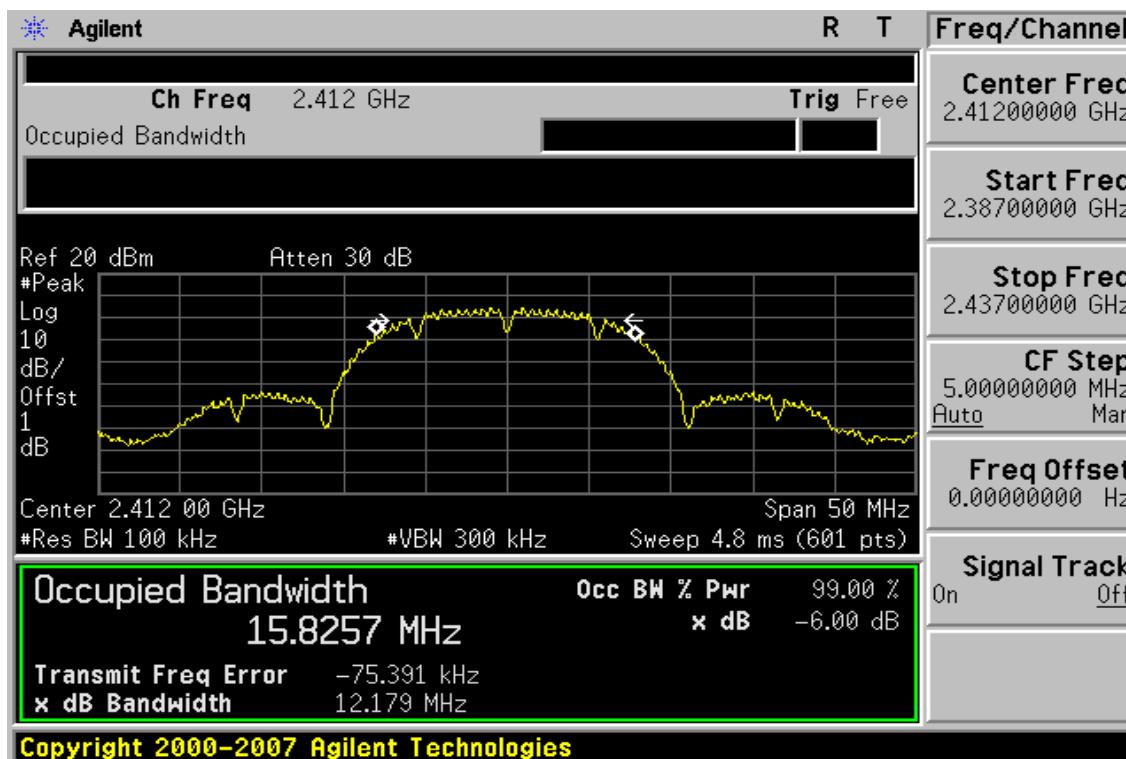
offset 1dB

Note: Refer to next page for plots.

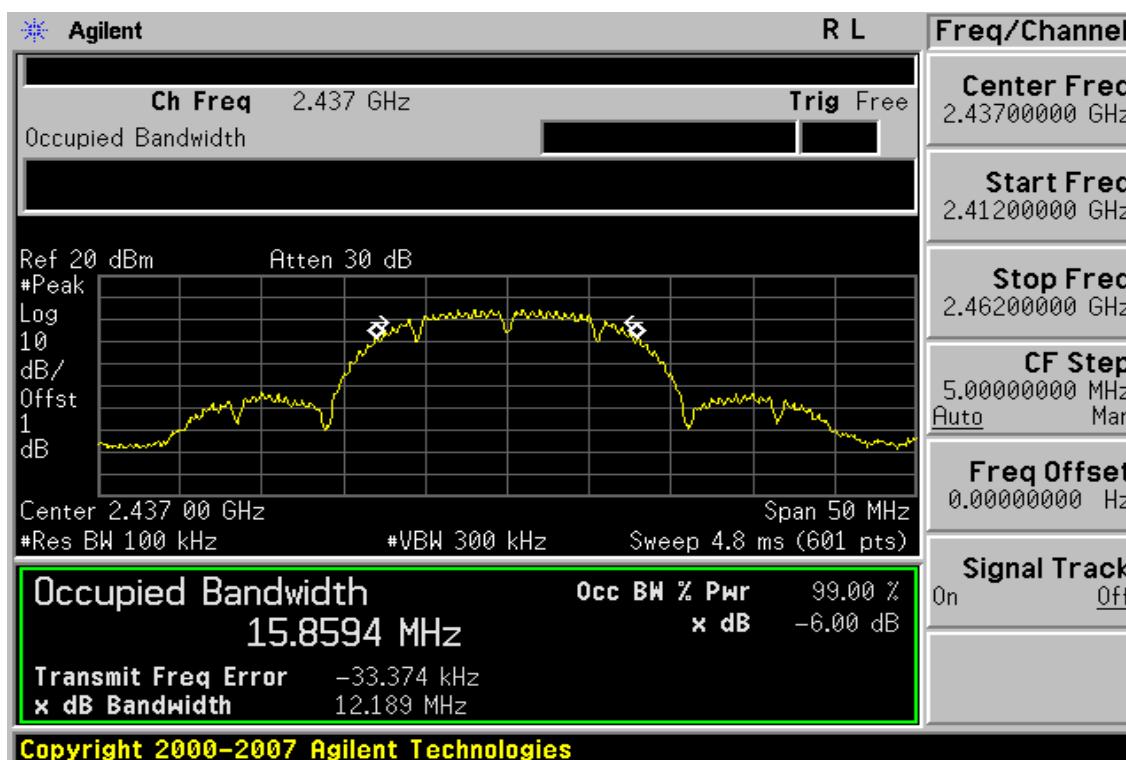
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802.11b

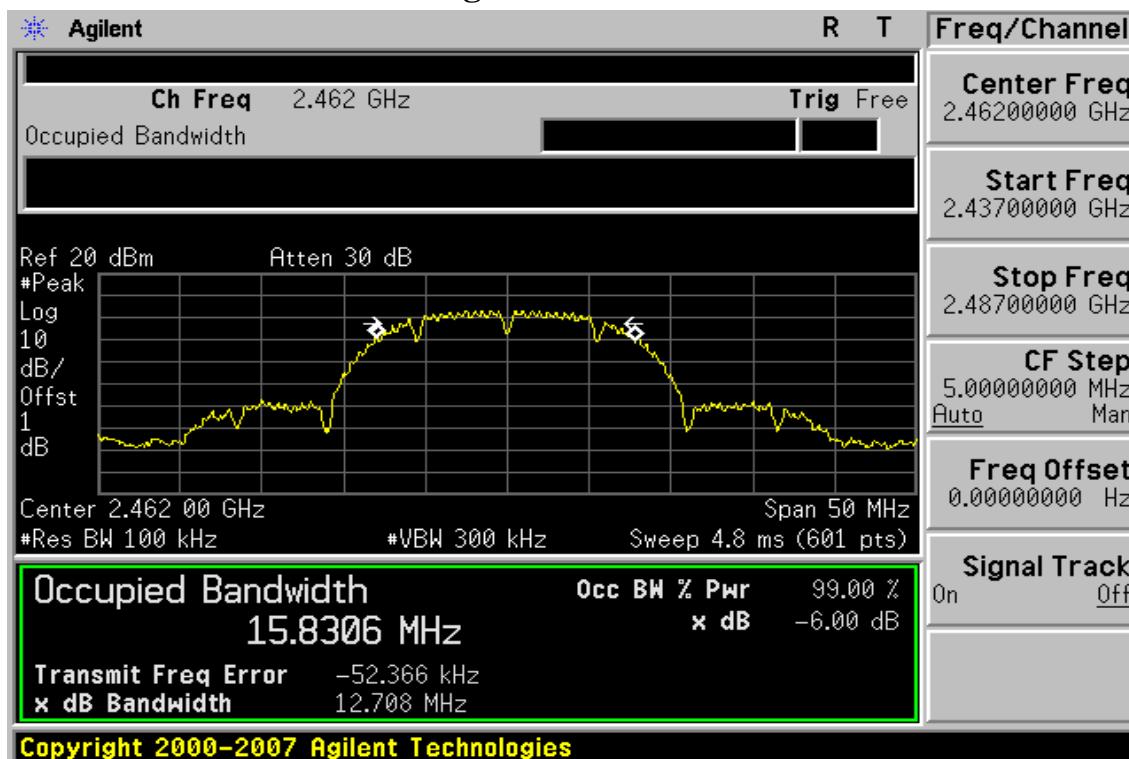
6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



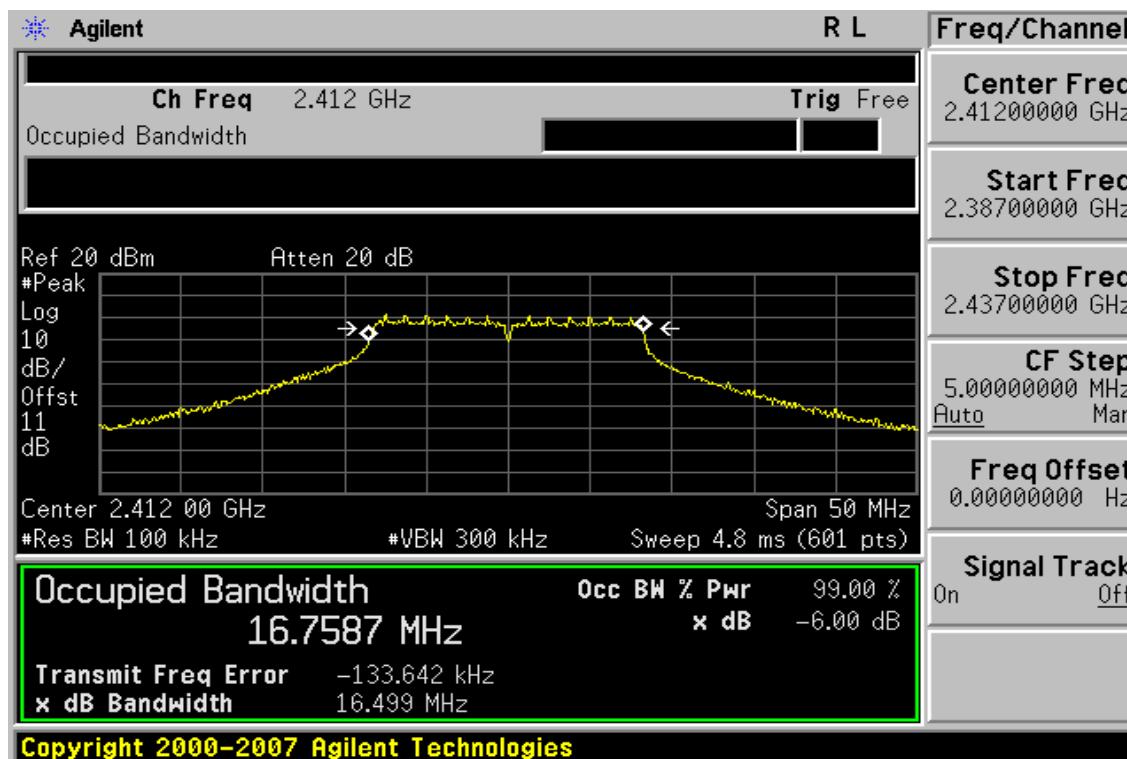
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6dB Band Width Test Data CH-High

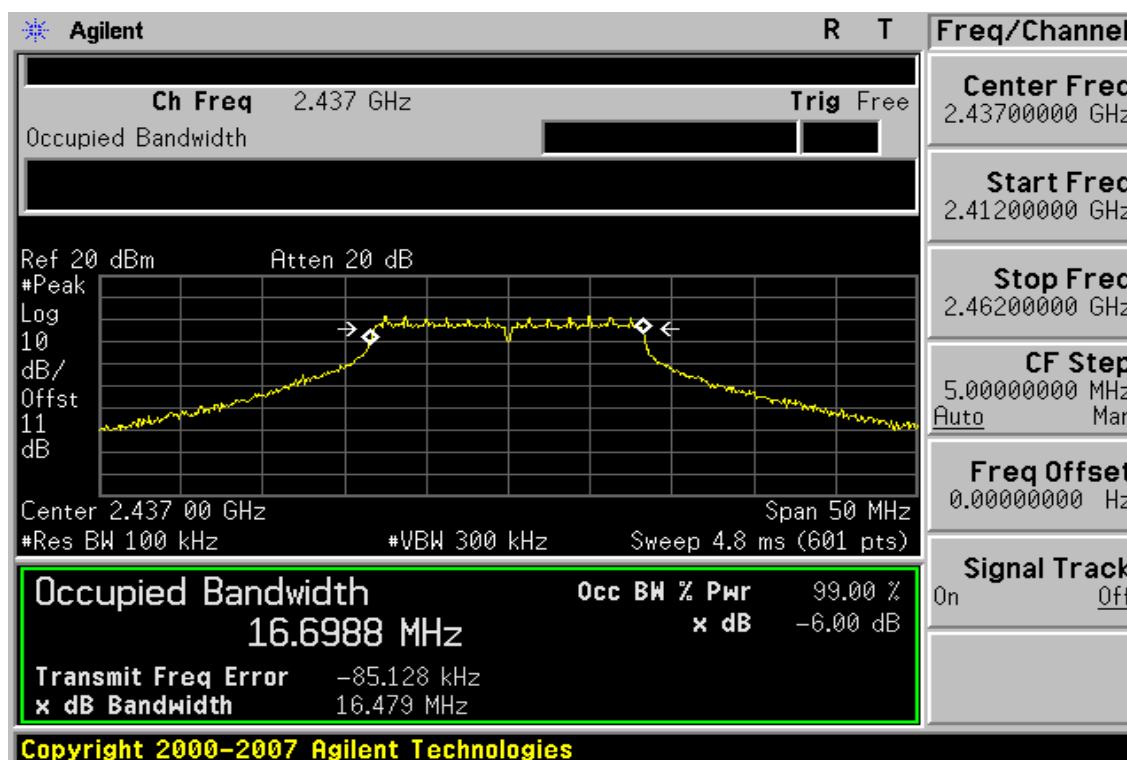
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802.11g

6dB Band Width Test Data CH-Low

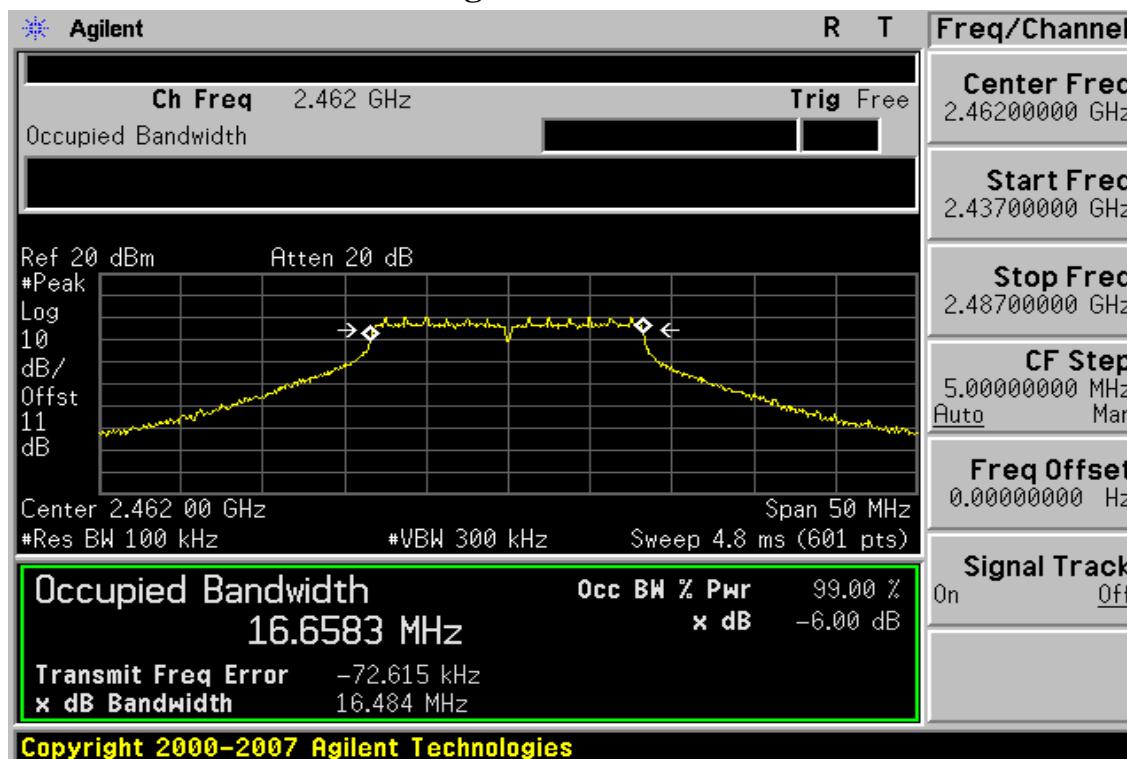


6dB Band Width Test Data CH-Mid



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6dB Band Width Test Data CH-High



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8 100KHz BANDWIDTH OF BAND EDGES MEASUREMENT

8.1 Standard Applicable:

According to §15.247(c), in any 100 KHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

8.2 Measurement Equipment Used:

8.2.1 Conducted Emission at antenna port:

Refer to section 6.2 for details.

8.2.2 Radiated emission:

| 966 Chamber | | | | | |
|-------------------|--------------|---------------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | R&S | FSP 40 | 100034 | 02/12/2009 | 02/11/2010 |
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/19/2008 | 04/18/2010 |
| Bilog Antenna | SCHWAZBECK | VULB9160 | 9160-3136 | 11/15/2008 | 11/14/2009 |
| Horn antenna | SCHWAZBECK | BBHA 9120D | 9120D-673 | 05/09/2008 | 05/08/2010 |
| Pre-Amplifier | Agilent | 8447D | 1937A02834 | 11/30/2008 | 11/29/2009 |
| Pre-Amplifier | Agilent | 8449B | 3008A01973 | 01/05/2009 | 01/04/2010 |
| Turn Table | HD | DT420 | N/A | N.C.R | N.C.R |
| Antenna Tower | HD | MA240-N | 240/657 | N.C.R | N.C.R |
| Controller | HD | HD100 | N/A | N.C.R | N.C.R |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA-10M | 10m | 01/05/2009 | 01/04/2010 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA-3M | 3m | 01/05/2009 | 01/04/2010 |
| 3m Site | SGS | 966 chamber | N/A | 11/08/2008 | 11/09/2009 |

8.3 Test SET-UP:

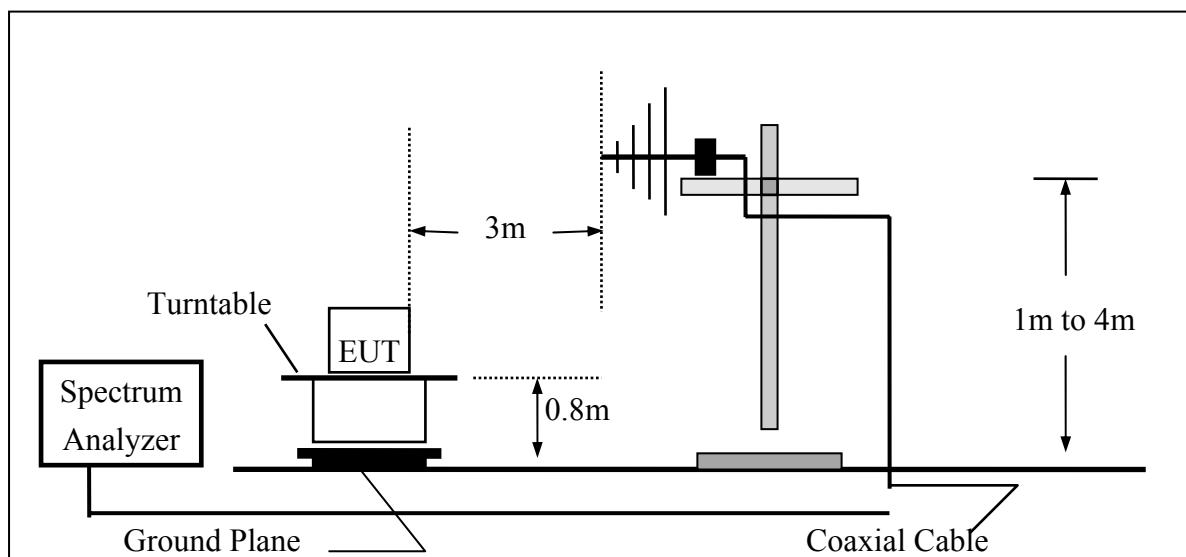
8.3.1 Conducted Emission at antenna port:

Refer to section 6.3 for details.

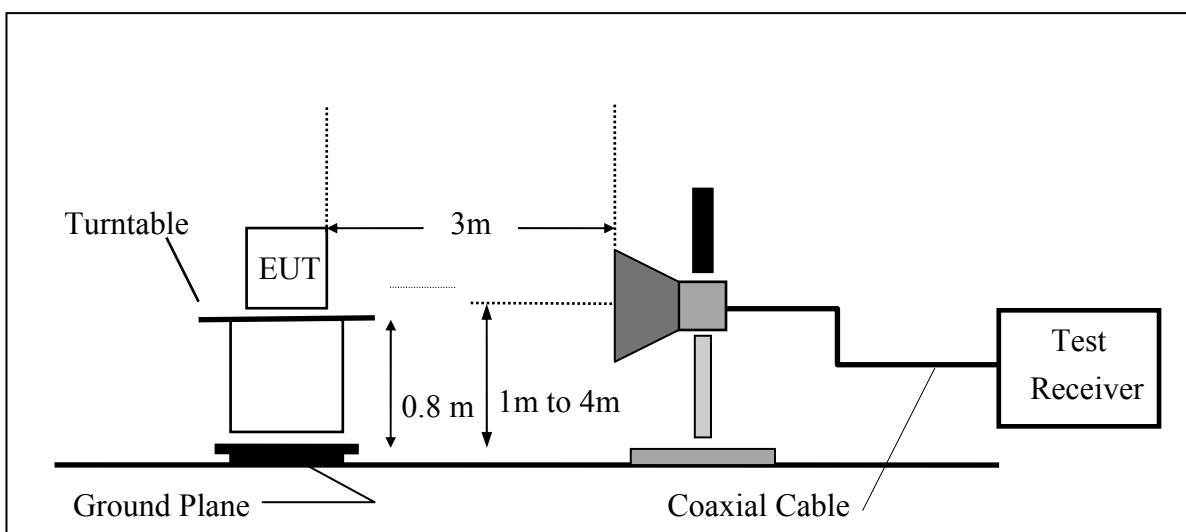
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8.3.2 Radiated emission:

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



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



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8.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = operating frequency.
4. Set the spectrum analyzer as RBW, VBW=100KHz, Span=25MHz, Sweep = auto
5. Mark Peak, 2.390GHz and 2.4835GHz and record the max. level.
6. Repeat above procedures until all frequency measured were complete.

8.5 Field Strength Calculation:

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

| | | |
|-------|------------------------|--|
| Where | FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| | RA = Reading Amplitude | AG = Amplifier Gain |
| | AF = Antenna Factor | |

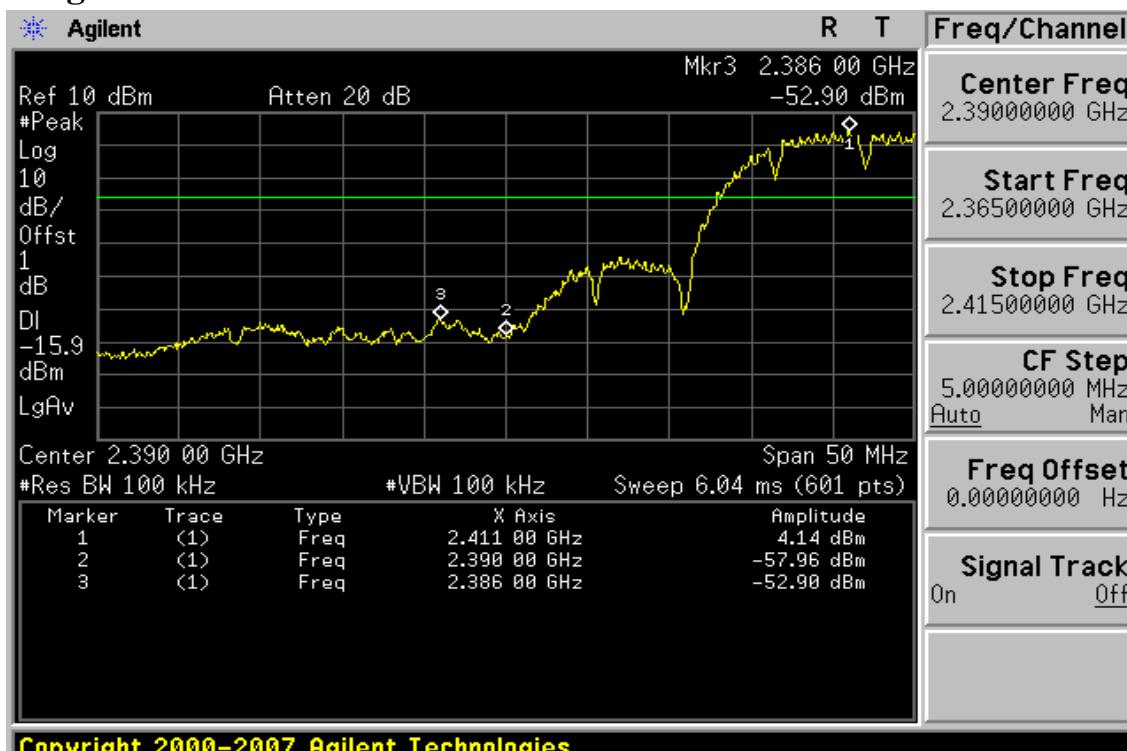
8.6 Measurement Result:

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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802.11b

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Radiated Emission: 802.11 b mode

| | | | |
|-----------------------|-----------|-----------|---------------|
| Operation Mode | TX CH Low | Test Date | Oct. 26, 2009 |
| Fundamental Frequency | 2412 MHz | Test By | Jason |
| Temperature | 25 °C | Pol | Ver. |
| Humidity | 65 % | | |

| Freq. (MHz) | Peak | | AV | | Actual FS | | Peak | | AV | | Margin (dB) | Remark |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------------------|-------------------|----------------|----|--|----------------|--------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | Limit (dBuV/m) | Margin (dB) | | | | |
| 2390.00 | 42.88 | --- | -1.39 | 41.49 | --- | 74.00 | 54.00 | -12.51 | | | Peak | |

| | | | |
|-----------------------|-----------|-----------|---------------|
| Operation Mode | TX CH Low | Test Date | Oct. 26, 2009 |
| Fundamental Frequency | 2412 MHz | Test By | Jason |
| Temperature | 25 °C | Pol | Hor. |
| Humidity | 65 % | | |

| Freq. (MHz) | Peak | | AV | | Actual FS | | Peak | | AV | | Margin (dB) | Remark |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------------------|-------------------|----------------|----|--|----------------|--------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | Limit (dBuV/m) | Margin (dB) | | | | |
| 2390.00 | 51.87 | --- | -1.39 | 50.48 | --- | 74.00 | 54.00 | -3.52 | | | Peak | |

Remark:

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting: 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Emission: 802.11 b mode

Operation Mode TX CH High
Fundamental Frequency 2462 MHz
Temperature 25 °C
Humidity 65 %

Test Date Oct. 26, 2009
Test By Jason
Pol Ver.

| Freq. (MHz) | Peak | AV | Actual FS | | Peak | AV | Margin (dB) | Remark |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------|----------------|-------------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | | | |
| 2483.56 | 42.82 | --- | -0.92 | 41.90 | --- | 74.00 | 54.00 | -12.10 Peak |

Operation Mode TX CH High
Fundamental Frequency 2462 MHz
Temperature 25 °C
Humidity 65 %

Test Date Oct. 26, 2009
Test By Jason
Pol Hor.

| Freq. (MHz) | Peak | AV | Actual FS | | Peak | AV | Margin (dB) | Remark |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------|----------------|------------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | | | |
| 2483.56 | 49.82 | --- | -0.92 | 48.90 | --- | 74.00 | 54.00 | -5.10 Peak |

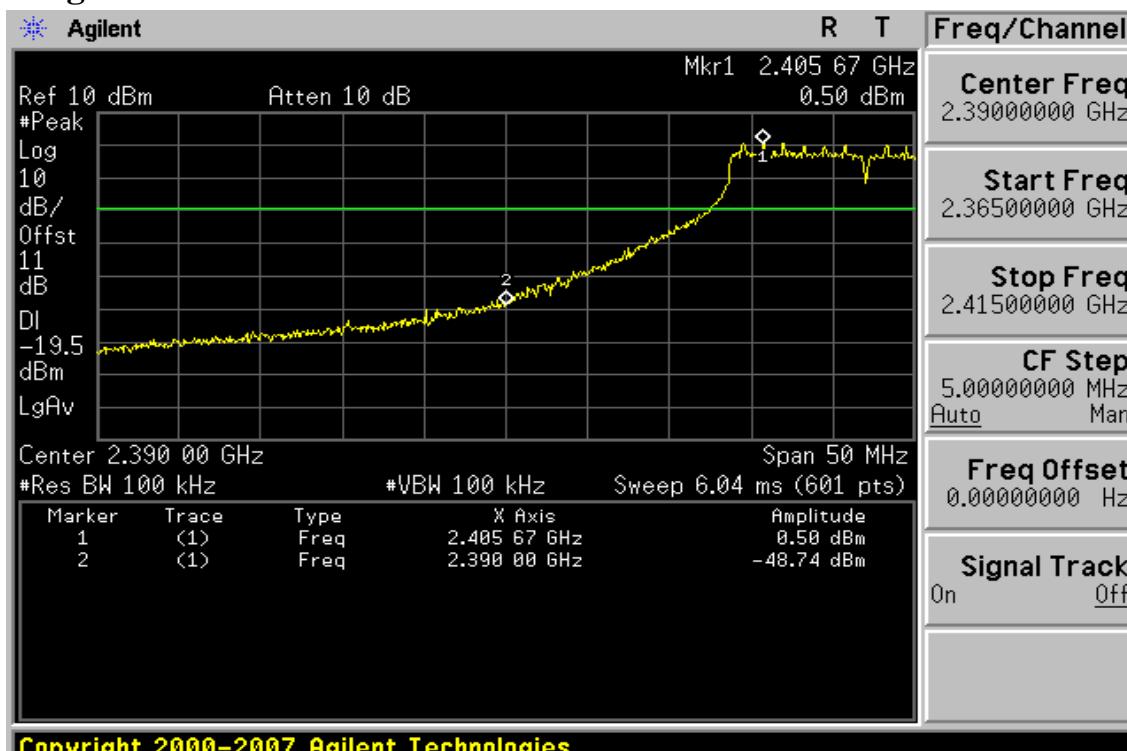
Remark:

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting: 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

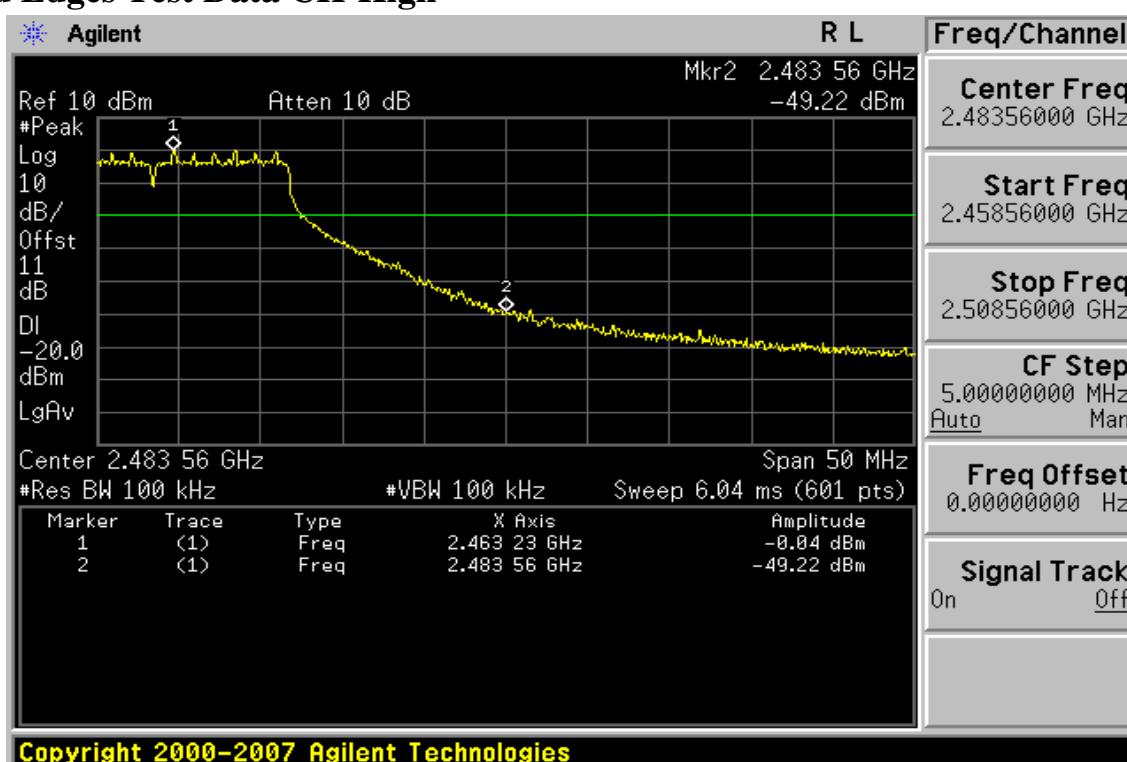
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802.11g

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Radiated Emission: 802.11 g mode

| | | | |
|-----------------------|-----------|-----------|---------------|
| Operation Mode | TX CH Low | Test Date | Oct. 26, 2009 |
| Fundamental Frequency | 2412 MHz | Test By | Jason |
| Temperature | 25 °C | Pol | Ver. |
| Humidity | 65 % | | |

| Freq. (MHz) | Peak | | AV | | Actual FS | | Peak | | AV | | Margin (dB) | Remark |
|----------------|-------------------|-------------------|---------|--------|------------------|----------------|-------------------|-------------------|----------------|------|----------------|--------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL | CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | Limit (dBuV/m) | Margin (dB) | | | |
| 2390.00 | 48.42 | --- | -1.39 | | 47.03 | --- | 74.00 | 54.00 | -6.97 | Peak | | |

| | | | |
|-----------------------|-----------|-----------|---------------|
| Operation Mode | TX CH Low | Test Date | Oct. 26, 2009 |
| Fundamental Frequency | 2412 MHz | Test By | Jason |
| Temperature | 25 °C | Pol | Hor. |
| Humidity | 65 % | | |

| Freq. (MHz) | Peak | | AV | | Actual FS | | Peak | | AV | | Margin (dB) | Remark |
|----------------|-------------------|-------------------|---------|--------|------------------|----------------|-------------------|-------------------|----------------|----|----------------|--------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL | CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | Limit (dBuV/m) | Margin (dB) | | | |
| 2390.00 | 61.17 | 47.11 | -1.39 | | 59.78 | 45.72 | 74.00 | 54.00 | -8.28 | AV | | |

Remark:

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting: 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Emission: 802.11 g mode

| | | | |
|-----------------------|------------|-----------|---------------|
| Operation Mode | TX CH High | Test Date | Oct. 26, 2009 |
| Fundamental Frequency | 2462 MHz | Test By | Jason |
| Temperature | 25 °C | Pol | Ver. |
| Humidity | 65 % | | |

| Freq. (MHz) | Peak | | AV | | Actual FS | | Peak | | AV | | Margin (dB) | Remark |
|----------------|-------------------|-------------------|---------|--------|------------------|----------------|-------------------|-------------------|----------------|------|----------------|--------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL | CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | Limit (dBuV/m) | Margin (dB) | | | |
| 2483.56 | 43.72 | --- | -0.92 | | 42.80 | --- | 74.00 | 54.00 | -11.20 | Peak | | |

| | | | |
|-----------------------|------------|-----------|---------------|
| Operation Mode | TX CH High | Test Date | Oct. 26, 2009 |
| Fundamental Frequency | 2462 MHz | Test By | Jason |
| Temperature | 25 °C | Pol | Hor. |
| Humidity | 65 % | | |

| Freq. (MHz) | Peak | | AV | | Actual FS | | Peak | | AV | | Margin (dB) | Remark |
|----------------|-------------------|-------------------|---------|--------|------------------|----------------|-------------------|-------------------|----------------|----|----------------|--------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL | CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | Limit (dBuV/m) | Margin (dB) | | | |
| 2483.56 | 55.01 | 42.45 | -0.92 | | 54.09 | 41.53 | 74.00 | 54.00 | -12.47 | AV | | |

Remark:

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting: 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz- 40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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9 SPURIOUS RADIATED EMISSION TEST

9.1 Standard Applicable

According to §15.247(d), all other emissions outside these bands shall not exceed the general radiated emission limits specified in §15.209(a). And according to §15.33(a)(1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

9.2 Measurement Equipment Used:

9.2.1. Conducted Emission at antenna port:

Refer to section 6.2 for details.

9.2.2. Radiated emission:

Refer to section 8.2 for details.

9.3 Test SET-UP:

9.3.1. Conducted Emission at antenna port:

Refer to section 6.3 for details.

9.3.2. Radiated emission:

Refer to section 8.3 for details.

9.4 Measurement Procedure:

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. Repeat above procedures until all frequency measured were complete.

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9.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$\mathbf{FS = RA + AF - CL - AG}$$

| | | |
|-------|------------------------|--|
| Where | FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| | RA = Reading Amplitude | AG = Amplifier Gain |
| | AF = Antenna Factor | |

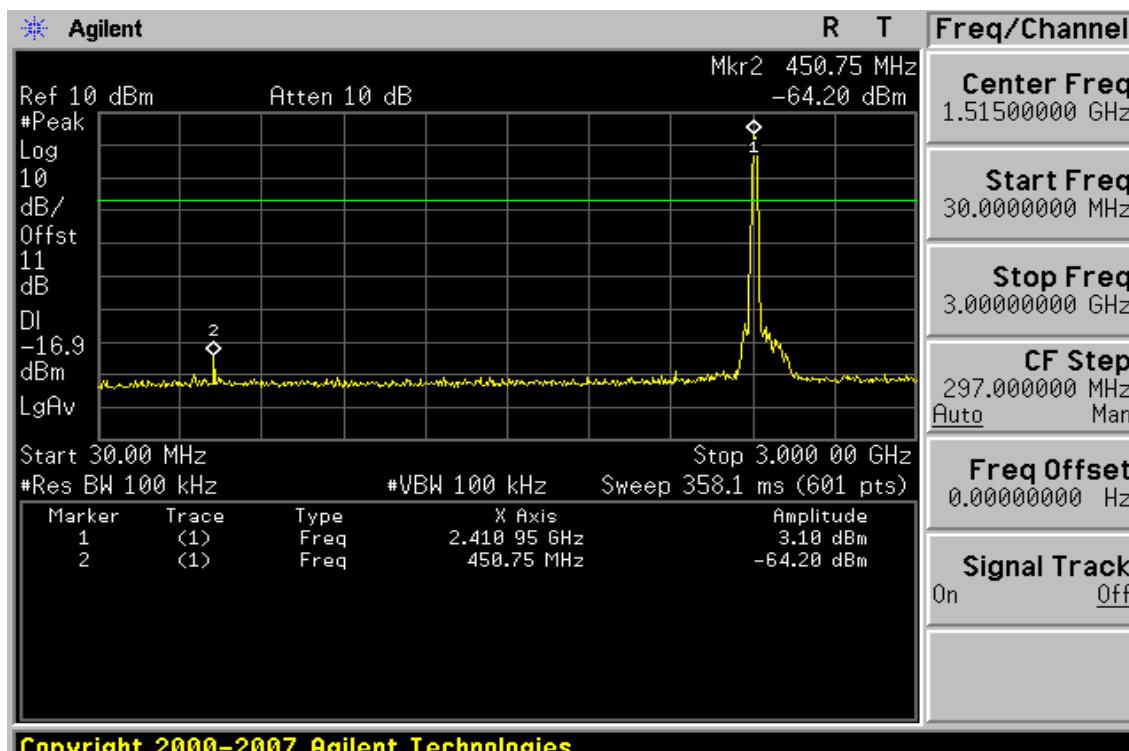
9.6 Measurement Result:

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

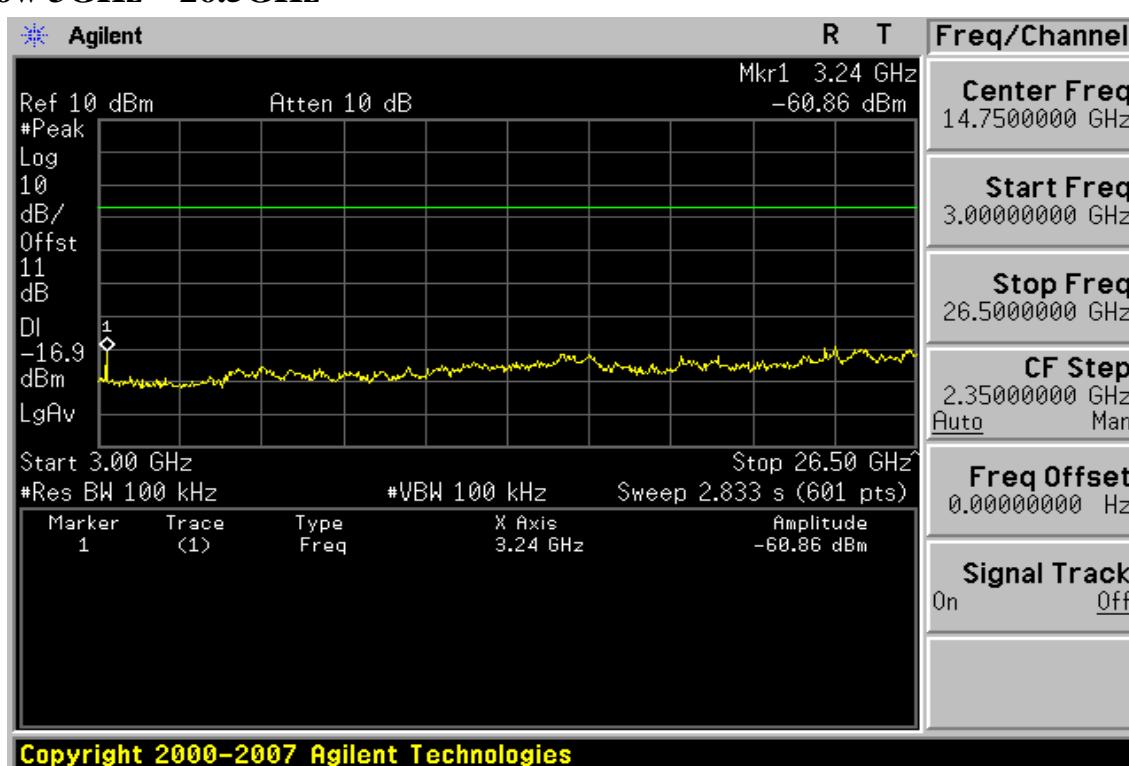
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Conducted Spurious Emission Measurement Result (802.11b)

Ch Low 30MHz – 3GHz

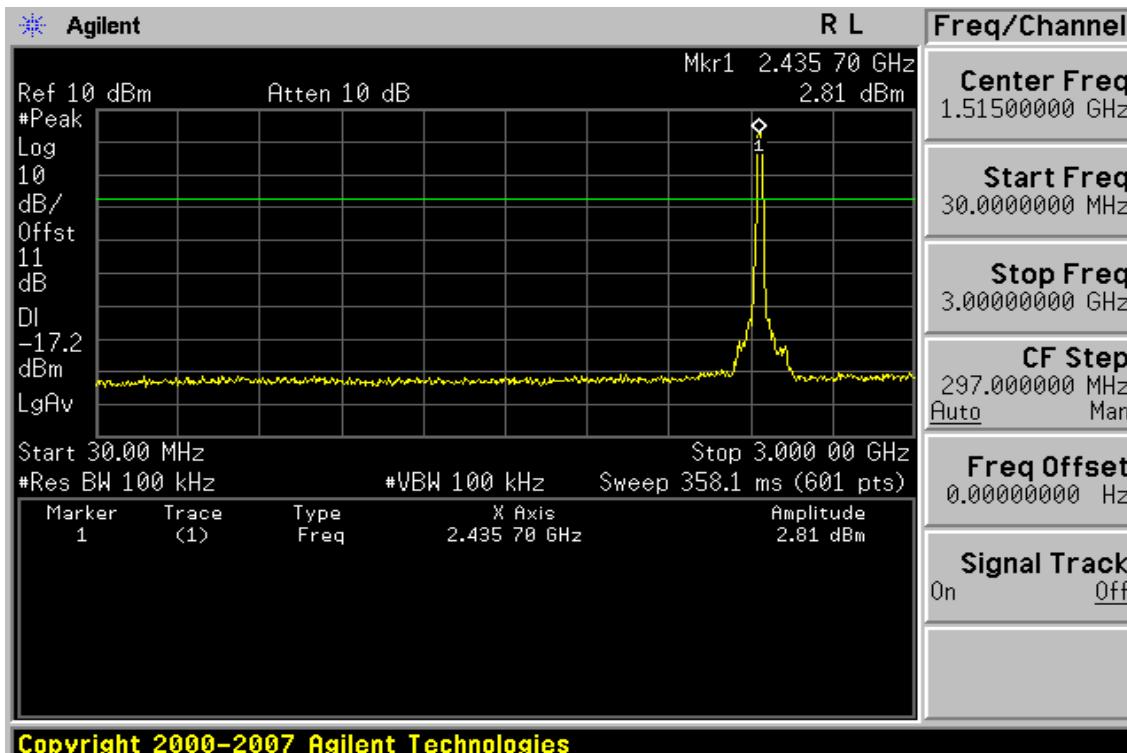


Ch Low 3GHz – 26.5GHz

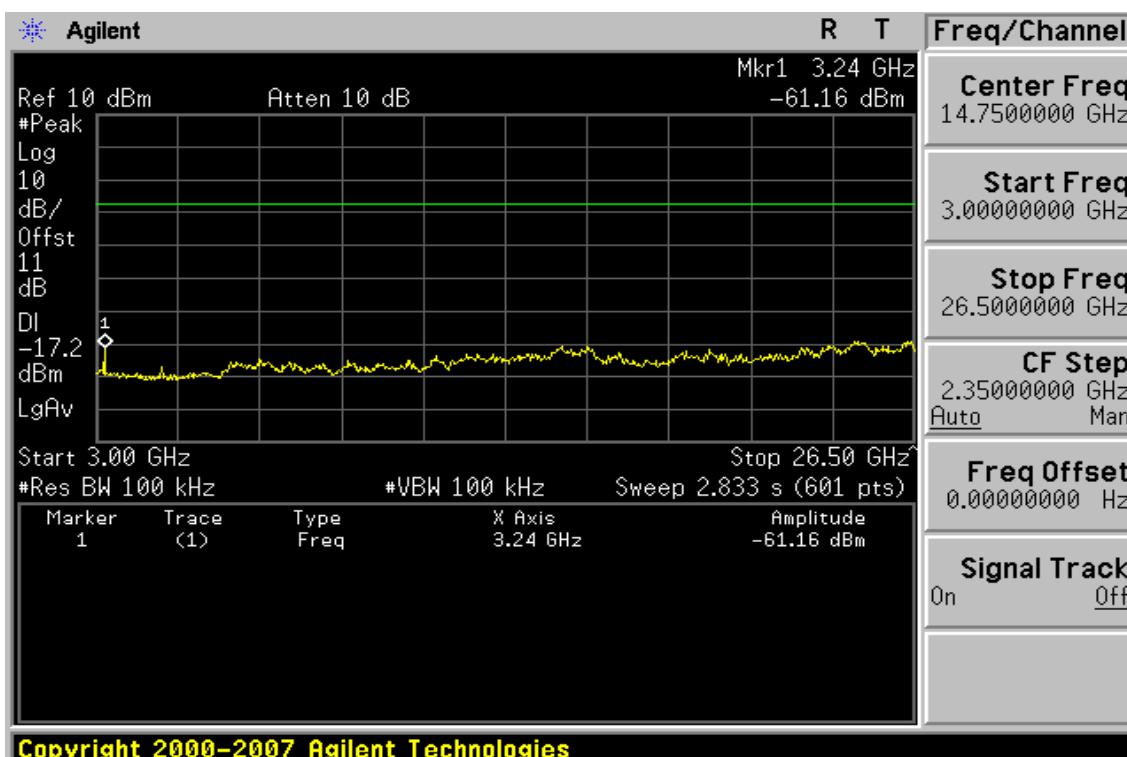


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Ch Mid 30MHz – 3GHz

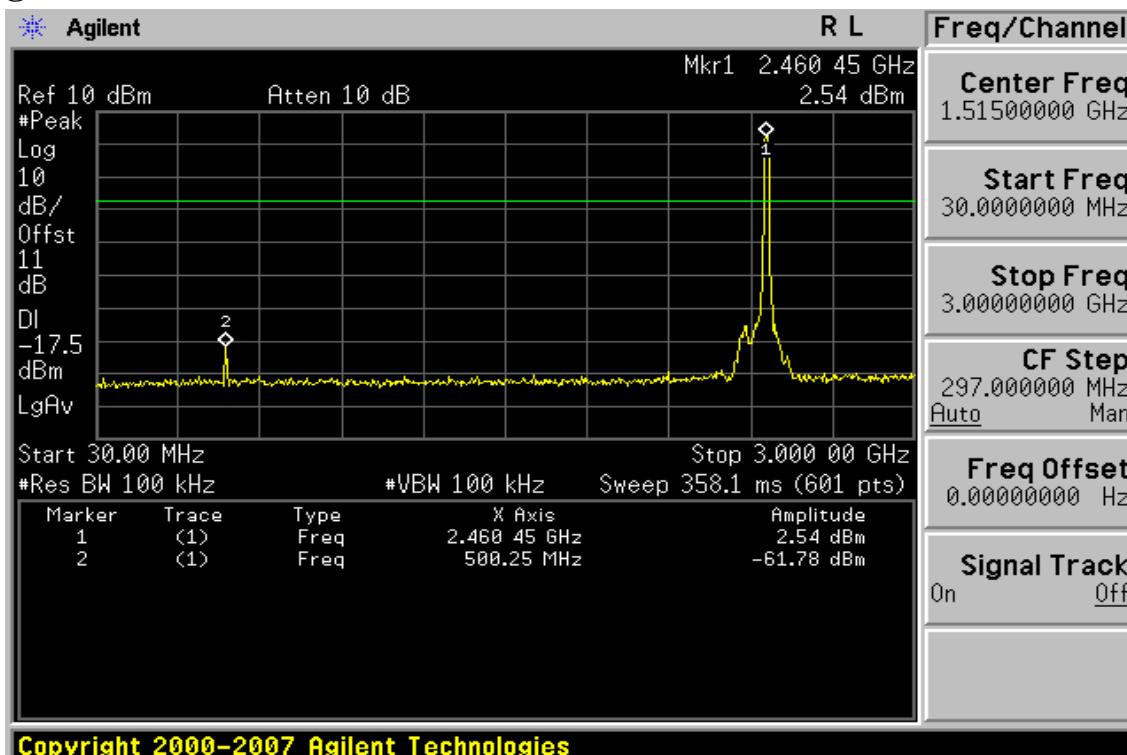


Ch Mid 3GHz – 26.5GHz

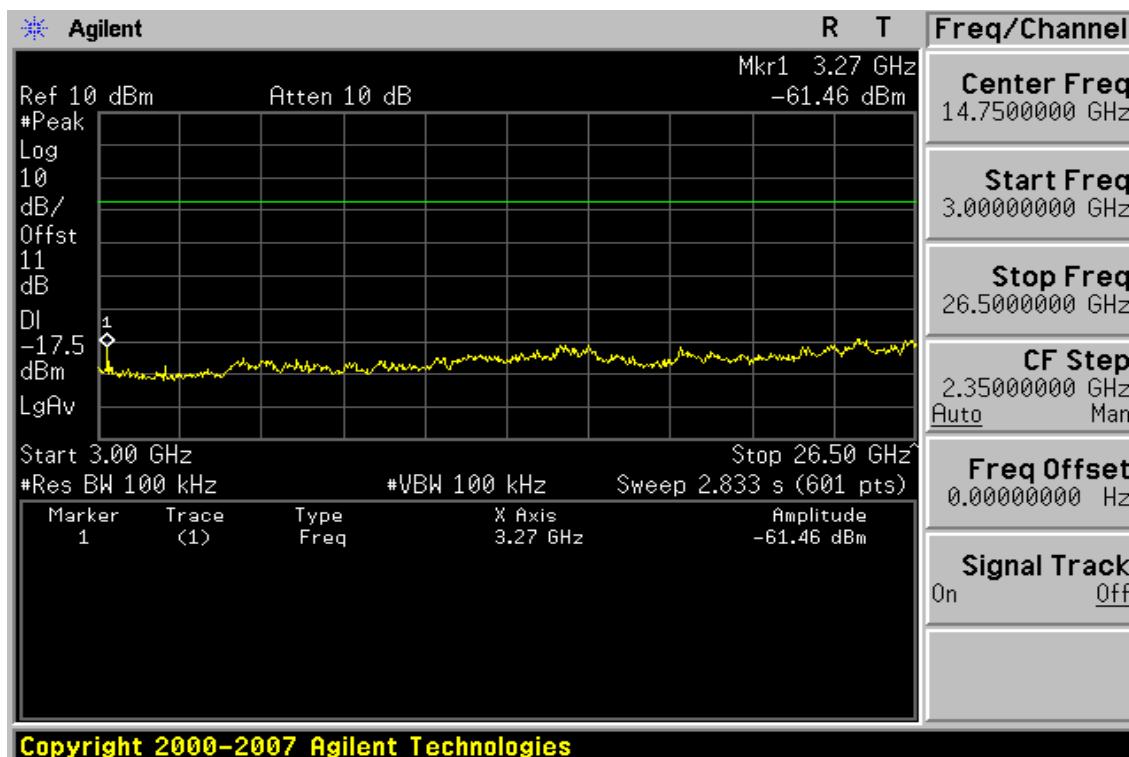


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Ch High 30MHz – 3GHz



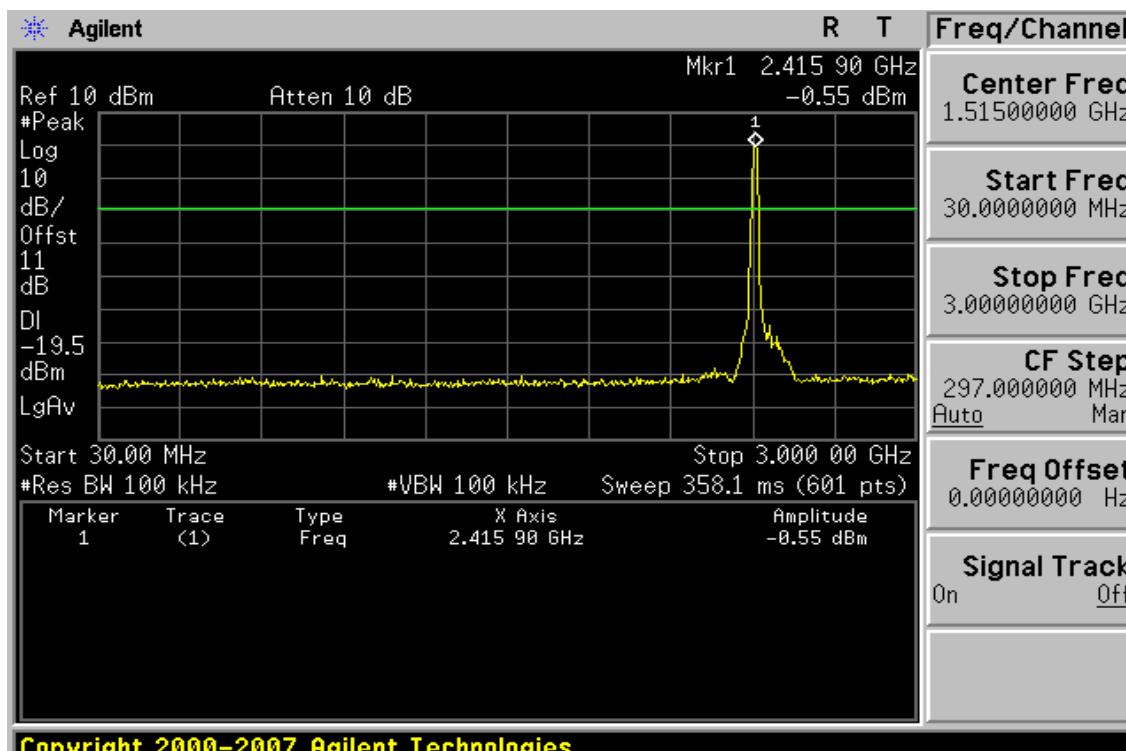
Ch High 3GHz – 26.5GHz



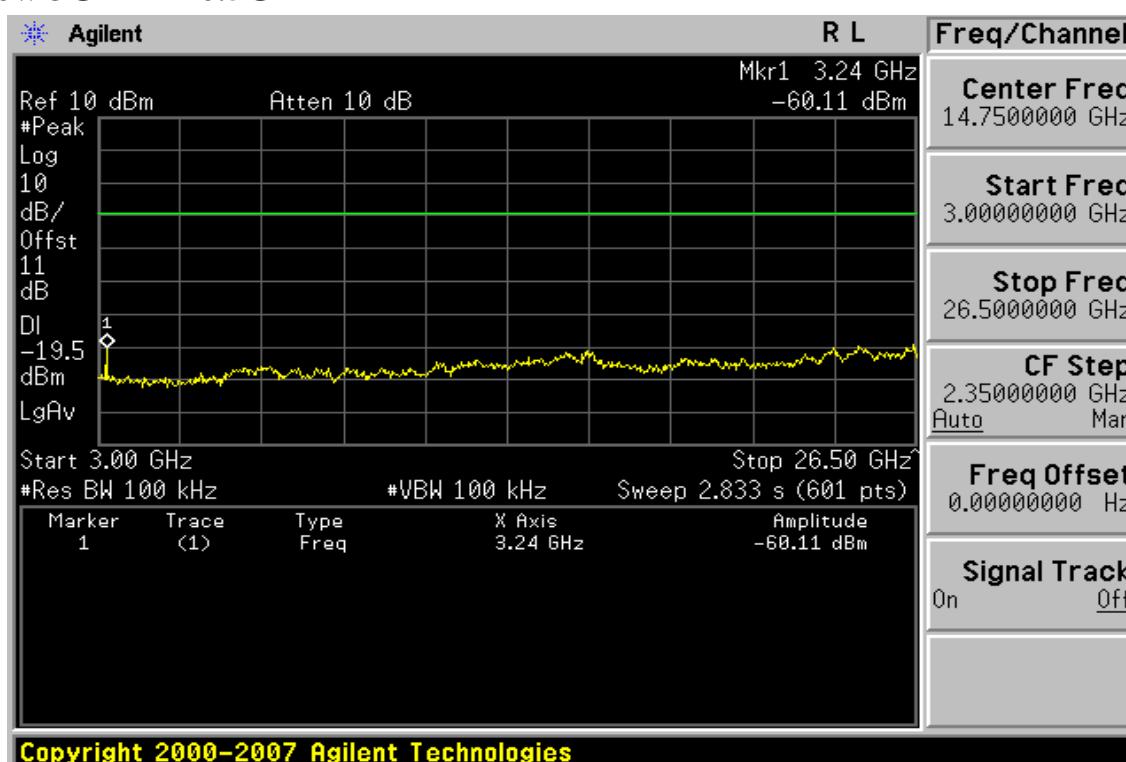
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Conducted Spurious Emission Measurement Result (802.11g)

Ch Low 30MHz – 3GHz

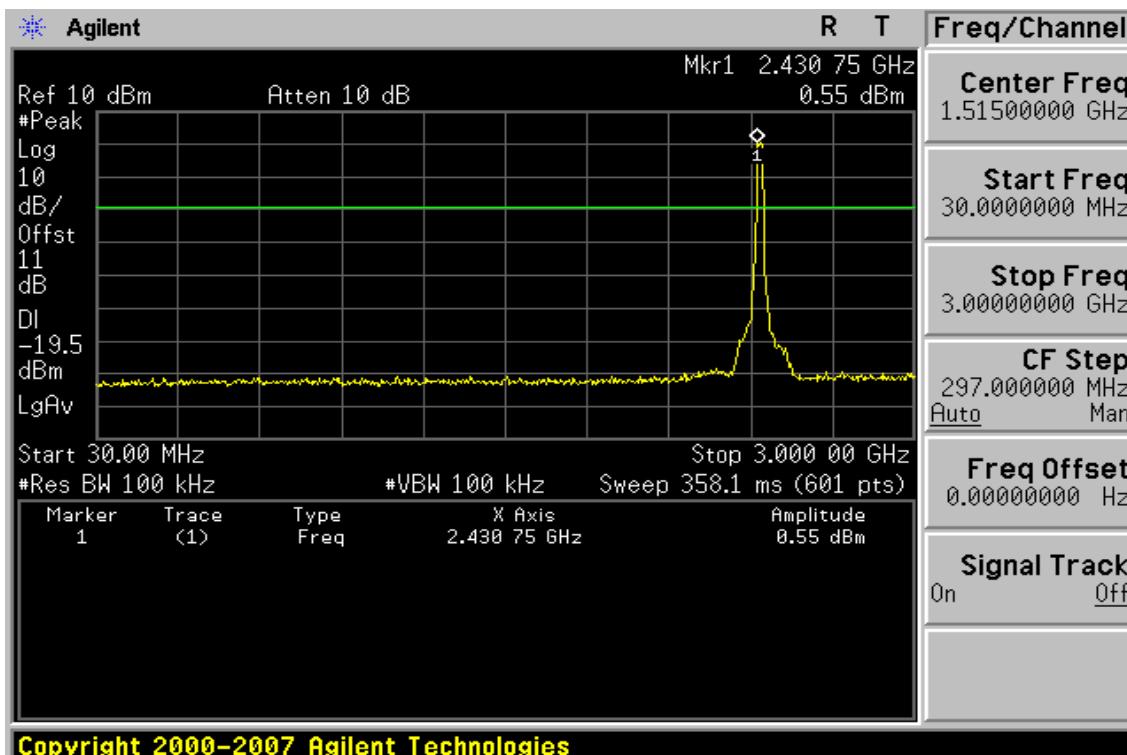


Ch Low 3GHz – 26.5GHz

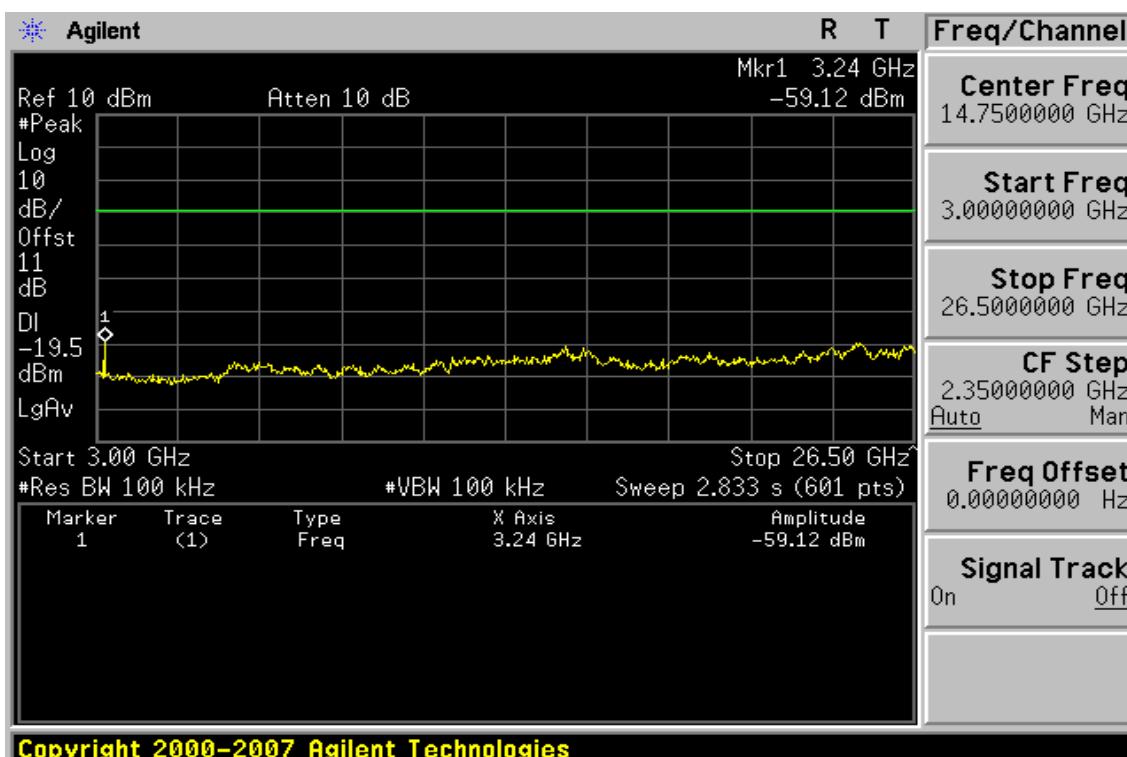


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Ch Mid 30MHz – 3GHz

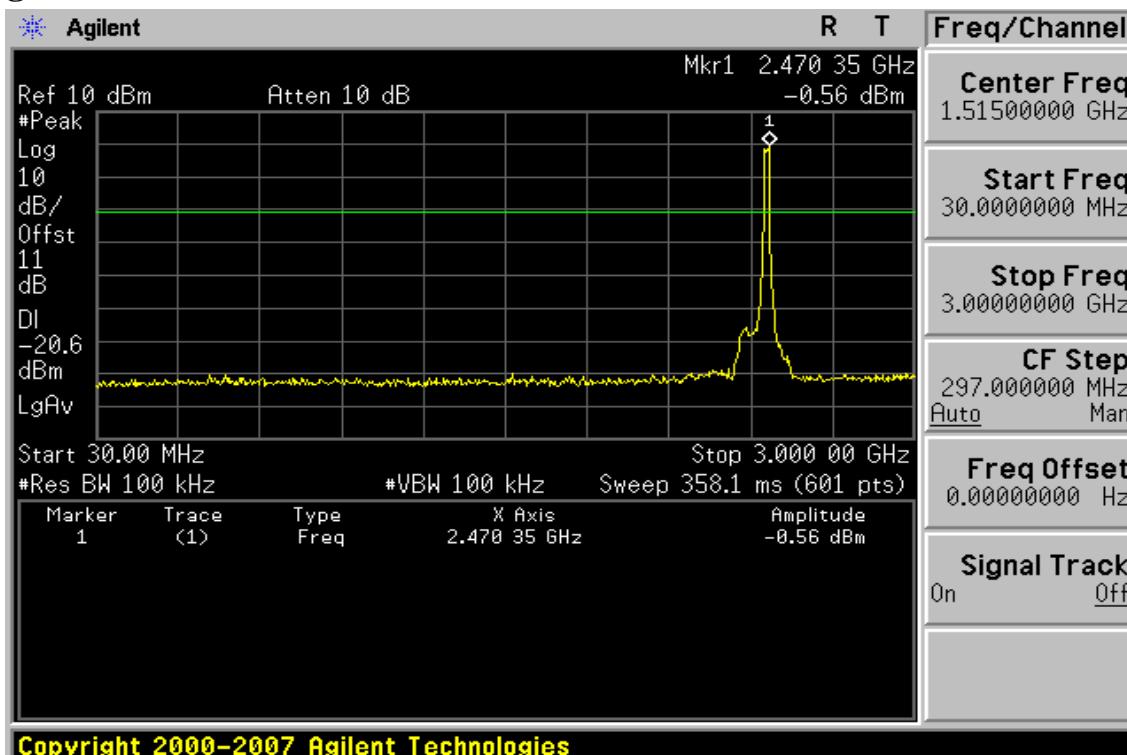


Ch Mid 3GHz – 26.5GHz

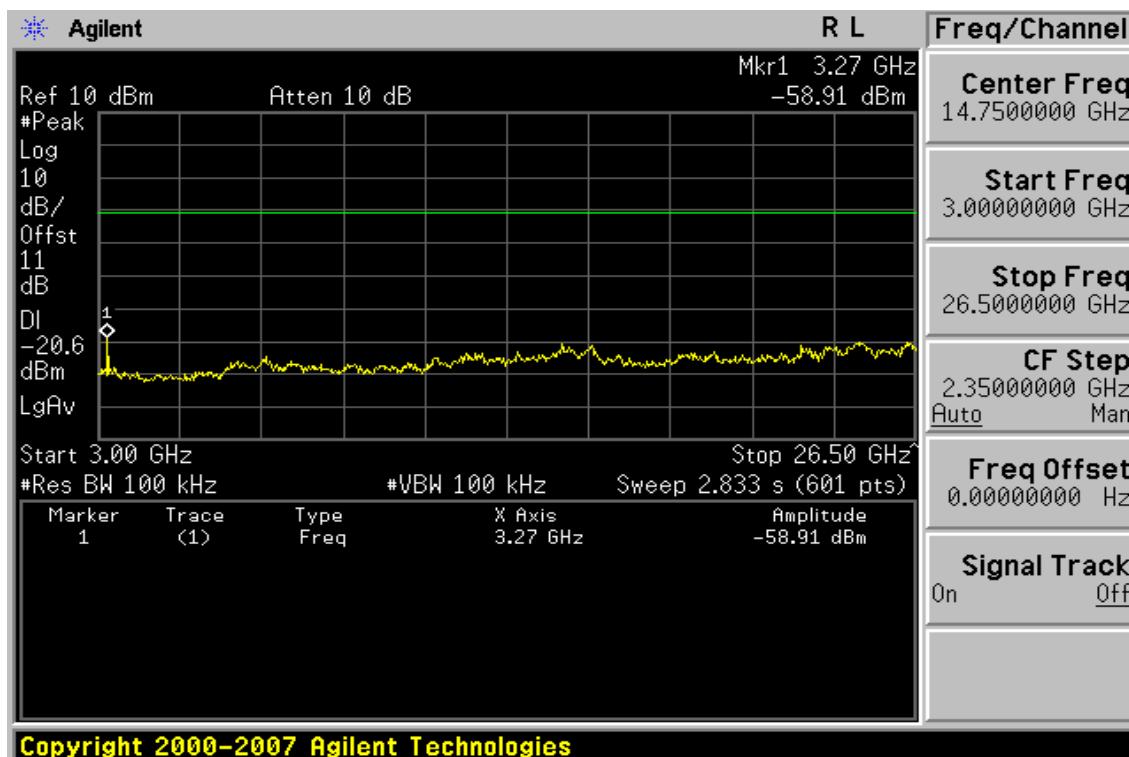


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Ch High 30MHz – 3GHz



Ch High 3GHz – 26.5GHz



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Radiated Spurious Emission Measurement Result (below 1GHz) (802.11b)

| | | | |
|-----------------------|-------------------|-----------|---------------|
| Operation Mode | 802.11b TX CH Low | Test Date | Oct. 26, 2009 |
| Fundamental Frequency | 2412MHz | Test By | Jason |
| Temperature | 25 °C | Pol | Ver./Hor |
| Humidity | 65 % | | |

| Freq. (MHz) | Ant.Pol. H/V | Detector Mode (PK/QP) | Reading (dBuV) | Factor (dB) | Actual FS (dBuV/m) | Limit3m (dBuV/m) | Safe Margin (dB) |
|----------------|-----------------|-----------------------------|-------------------|----------------|-----------------------|---------------------|---------------------|
| 38.73 | V | Peak | 47.95 | -13.84 | 34.11 | 40.00 | -5.89 |
| 61.04 | V | Peak | 44.38 | -14.75 | 29.63 | 40.00 | -10.37 |
| 92.08 | V | Peak | 46.93 | -17.38 | 29.55 | 43.50 | -13.95 |
| 38.73 | H | Peak | 49.45 | -13.84 | 35.61 | 40.00 | -4.39 |
| 56.19 | H | Peak | 41.73 | -14.63 | 27.10 | 40.00 | -12.90 |
| 70.74 | H | Peak | 42.10 | -16.27 | 25.83 | 40.00 | -14.17 |

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Radiated Spurious Emission Measurement Result (below 1GHz) (802.11b)

| | | | |
|-----------------------|-------------------|-----------|---------------|
| Operation Mode | 802.11b TX CH Mid | Test Date | Oct. 26, 2009 |
| Fundamental Frequency | 2437MHz | Test By | Jason |
| Temperature | 25 °C | Pol | Ver./Hor |
| Humidity | 65 % | | |

| Freq. (MHz) | Ant.Pol. H/V | Detector Mode (PK/QP) | Reading (dBuV) | Factor (dB) | Actual FS (dBuV/m) | Limit3m (dBuV/m) | Safe Margin (dB) |
|----------------|-----------------|-----------------------------|-------------------|----------------|-----------------------|---------------------|---------------------|
| 38.73 | V | Peak | 48.26 | -13.84 | 34.42 | 40.00 | -5.58 |
| 62.98 | V | Peak | 43.28 | -14.85 | 28.43 | 40.00 | -11.57 |
| 92.08 | V | Peak | 46.84 | -17.38 | 29.46 | 43.50 | -14.04 |
| 38.73 | H | Peak | 49.61 | -13.84 | 35.77 | 40.00 | -4.23 |
| 56.19 | H | Peak | 41.64 | -14.63 | 27.01 | 40.00 | -12.99 |
| 70.74 | H | Peak | 42.09 | -16.27 | 25.82 | 40.00 | -14.18 |

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Radiated Spurious Emission Measurement Result (below 1GHz) (802.11b)

| | | | |
|-----------------------|--------------------|-----------|---------------|
| Operation Mode | 802.11b TX CH High | Test Date | Oct. 26, 2009 |
| Fundamental Frequency | 2462MHz | Test By | Jason |
| Temperature | 25 °C | Pol | Ver./Hor |
| Humidity | 65 % | | |

| Freq. (MHz) | Ant.Pol. H/V | Detector Mode (PK/QP) | Reading (dBuV) | Factor (dB) | Actual FS (dBuV/m) | Limit3m (dBuV/m) | Safe Margin (dB) |
|----------------|-----------------|-----------------------------|-------------------|----------------|-----------------------|---------------------|---------------------|
| 38.73 | V | Peak | 48.45 | -13.84 | 34.61 | 40.00 | -5.39 |
| 56.19 | V | Peak | 42.75 | -14.63 | 28.12 | 40.00 | -11.88 |
| 62.98 | V | Peak | 42.89 | -14.85 | 28.04 | 40.00 | -11.96 |
| 92.08 | V | Peak | 47.70 | -17.38 | 30.32 | 43.50 | -13.18 |
| 38.73 | H | Peak | 49.62 | -13.84 | 35.78 | 40.00 | -4.22 |
| 56.19 | H | Peak | 41.68 | -14.63 | 27.05 | 40.00 | -12.95 |
| 70.74 | H | Peak | 41.95 | -16.27 | 25.68 | 40.00 | -14.32 |

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Radiated Spurious Emission Measurement Result (below 1GHz) (802.11g)

| | | | |
|-----------------------|-------------------|-----------|---------------|
| Operation Mode | 802.11g TX CH Low | Test Date | Oct. 26, 2009 |
| Fundamental Frequency | 2412MHz | Test By | Jason |
| Temperature | 25 °C | Pol | Ver./Hor |
| Humidity | 65 % | | |

| Freq. (MHz) | Ant.Pol. H/V | Detector Mode (PK/QP) | Reading (dBuV) | Factor (dB) | Actual FS (dBuV/m) | Limit3m (dBuV/m) | Safe Margin (dB) |
|----------------|-----------------|-----------------------------|-------------------|----------------|-----------------------|---------------------|---------------------|
| 38.73 | V | Peak | 47.24 | -13.84 | 33.40 | 40.00 | -6.60 |
| 62.98 | V | Peak | 42.86 | -14.85 | 28.01 | 40.00 | -11.99 |
| 92.08 | V | Peak | 46.83 | -17.38 | 29.45 | 43.50 | -14.05 |
| 38.73 | H | Peak | 48.67 | -13.84 | 34.83 | 40.00 | -5.17 |
| 56.19 | H | Peak | 42.29 | -14.63 | 27.66 | 40.00 | -12.34 |
| 70.74 | H | Peak | 41.67 | -16.27 | 25.40 | 40.00 | -14.60 |

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Radiated Spurious Emission Measurement Result (below 1GHz) (802.11g)

| | | | |
|-----------------------|-------------------|-----------|---------------|
| Operation Mode | 802.11g TX CH Mid | Test Date | Oct. 26, 2009 |
| Fundamental Frequency | 2437MHz | Test By | Jason |
| Temperature | 25 °C | Pol | Ver./Hor |
| Humidity | 65 % | | |

| Freq. (MHz) | Ant.Pol. H/V | Detector Mode (PK/QP) | Reading (dBuV) | Factor (dB) | Actual FS (dBuV/m) | Limit3m (dBuV/m) | Safe Margin (dB) |
|----------------|-----------------|-----------------------------|-------------------|----------------|-----------------------|---------------------|---------------------|
| 38.73 | V | Peak | 47.48 | -13.84 | 33.64 | 40.00 | -6.36 |
| 61.04 | V | Peak | 42.92 | -14.75 | 28.17 | 40.00 | -11.83 |
| 92.08 | V | Peak | 47.14 | -17.38 | 29.76 | 43.50 | -13.74 |
| 38.73 | H | Peak | 49.37 | -13.84 | 35.53 | 40.00 | -4.47 |
| 56.19 | H | Peak | 41.54 | -14.63 | 26.91 | 40.00 | -13.09 |
| 70.74 | H | Peak | 42.95 | -16.27 | 26.68 | 40.00 | -13.32 |

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Radiated Spurious Emission Measurement Result (below 1GHz) (802.11g)

| | | | |
|-----------------------|--------------------|-----------|---------------|
| Operation Mode | 802.11g TX CH High | Test Date | Oct. 26, 2009 |
| Fundamental Frequency | 2462MHz | Test By | Jason |
| Temperature | 25 °C | Pol | Ver./Hor |
| Humidity | 65 % | | |

| Freq. (MHz) | Ant.Pol. H/V | Detector Mode (PK/QP) | Reading (dBuV) | Factor (dB) | Actual FS (dBuV/m) | Limit3m (dBuV/m) | Safe Margin (dB) |
|----------------|-----------------|-----------------------------|-------------------|----------------|-----------------------|---------------------|---------------------|
| 38.73 | V | Peak | 48.34 | -13.84 | 34.50 | 40.00 | -5.50 |
| 56.19 | V | Peak | 44.01 | -14.63 | 29.38 | 40.00 | -10.62 |
| 62.98 | V | Peak | 43.79 | -14.85 | 28.94 | 40.00 | -11.06 |
| 92.08 | V | Peak | 47.50 | -17.38 | 30.12 | 43.50 | -13.38 |
| 38.73 | H | Peak | 49.53 | -13.84 | 35.69 | 40.00 | -4.31 |
| 56.19 | H | Peak | 41.08 | -14.63 | 26.45 | 40.00 | -13.55 |
| 70.74 | H | Peak | 41.87 | -16.27 | 25.60 | 40.00 | -14.40 |

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11b)

Operation Mode 802.11b TX CH Low Test Date Oct. 26, 2009
Fundamental Frequency 2412MHz Test By Jason
Temperature 25 °C Pol Ver.
Humidity 65 %

| Freq. (MHz) | Peak | AV | | Actual FS | | Peak | AV | | Margin (dB) | Remark |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------------------|-------------------|--------|----------------|--------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | Limit (dBuV/m) | | | |
| 4824.0 | 33.71 | ---- | 6.05 | 39.76 | ---- | 74.00 | 54.00 | -14.24 | Peak | |
| 7236.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 9648.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 12060.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 14472.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 16884.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 19296.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 21708.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 24120.0 | ---- | | | | | 74.00 | 54.00 | | | |

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11b)

| | | | |
|-----------------------|-------------------|-----------|---------------|
| Operation Mode | 802.11b TX CH Low | Test Date | Oct. 26, 2009 |
| Fundamental Frequency | 2412MHz | Test By | Jason |
| Temperature | 25 °C | Pol | Hor |
| Humidity | 65 % | | |

| Freq. (MHz) | Peak | AV | Actual FS | | Peak | AV | Margin (dB) | Remark |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------------------|----------------|-------------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | | |
| 4824.0 | 33.13 | ---- | 6.05 | 39.18 | ---- | 74.00 | 54.00 | -14.82 Peak |
| 7236.0 | ---- | | | | | 74.00 | 54.00 | |
| 9648.0 | ---- | | | | | 74.00 | 54.00 | |
| 12060.0 | ---- | | | | | 74.00 | 54.00 | |
| 14472.0 | ---- | | | | | 74.00 | 54.00 | |
| 16884.0 | ---- | | | | | 74.00 | 54.00 | |
| 19296.0 | ---- | | | | | 74.00 | 54.00 | |
| 21708.0 | ---- | | | | | 74.00 | 54.00 | |
| 24120.0 | ---- | | | | | 74.00 | 54.00 | |

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11b)

Operation Mode 802.11b TX CH Mid Test Date Oct. 26, 2009
Fundamental Frequency 2437MHz Test By Jason
Temperature 25 °C Pol Ver
Humidity 65 %

| Freq. (MHz) | Peak | AV | | Actual FS | | Peak | AV | | Margin (dB) | Remark |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------------------|-------------------|--------|----------------|--------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | Limit (dBuV/m) | | | |
| 4874.0 | 33.34 | ---- | 6.20 | 39.54 | ---- | 74.00 | 54.00 | -14.46 | Peak | |
| 7311.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 9748.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 12185.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 14622.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 17059.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 19496.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 21933.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 24370.0 | ---- | | | | | 74.00 | 54.00 | | | |

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11b)

| | | | |
|-----------------------|-------------------|-----------|---------------|
| Operation Mode | 802.11b TX CH Mid | Test Date | Oct. 26, 2009 |
| Fundamental Frequency | 2437MHz | Test By | Jason |
| Temperature | 25 °C | Pol | Hor |
| Humidity | 65 % | | |

| Freq. (MHz) | Peak | AV | | Actual FS | | Peak | AV | | Margin (dB) | Remark |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------------------|-------------------|--------|----------------|--------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | Limit (dBuV/m) | | | |
| 4874.0 | 33.01 | ---- | 6.20 | 39.21 | ---- | 74.00 | 54.00 | -14.79 | Peak | |
| 7311.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 9748.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 12185.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 14622.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 17059.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 19496.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 21933.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 24370.0 | ---- | | | | | 74.00 | 54.00 | | | |

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11b)

| | | | |
|-----------------------|--------------------|-----------|---------------|
| Operation Mode | 802.11b TX CH High | Test Date | Oct. 26, 2009 |
| Fundamental Frequency | 2462MHz | Test By | Jason |
| Temperature | 25 °C | Pol | Ver |
| Humidity | 65 % | | |

| Freq. (MHz) | Peak | AV | | Actual FS | | Peak | AV | | Margin (dB) | Remark |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------------------|-------------------|--------|----------------|--------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | Limit (dBuV/m) | | | |
| 4924.0 | 34.48 | ---- | 6.32 | 40.80 | ---- | 74.00 | 54.00 | -13.20 | Peak | |
| 7386.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 9848.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 12310.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 14772.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 17234.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 19696.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 22158.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 24620.0 | ---- | | | | | 74.00 | 54.00 | | | |

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11b)

Operation Mode 802.11b TX CH High Test Date Oct. 26, 2009
Fundamental Frequency 2462MHz Test By Jason
Temperature 25 °C Pol Hor
Humidity 65 %

| Freq. (MHz) | Peak | AV | | Actual FS | | Peak | AV | | Margin (dB) | Remark |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------------------|-------------------|--------|----------------|--------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | Limit (dBuV/m) | | | |
| 4924.0 | 33.62 | ---- | 6.32 | 39.94 | ---- | 74.00 | 54.00 | -14.06 | Peak | |
| 7386.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 9848.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 12310.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 14772.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 17234.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 19696.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 22158.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 24620.0 | ---- | | | | | 74.00 | 54.00 | | | |

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g)

Operation Mode 802.11g TX CH Low Test Date Oct. 26, 2009
Fundamental Frequency 2412MHz Test By Jason
Temperature 25 °C Pol Ver.
Humidity 65 %

| Freq. (MHz) | Peak | AV | | Actual FS | | Peak | AV | | Margin (dB) | Remark |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------------------|-------------------|--------|----------------|--------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | Limit (dBuV/m) | | | |
| 4824.0 | 34.01 | ---- | 6.05 | 40.06 | ---- | 74.00 | 54.00 | -13.94 | Peak | |
| 7236.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 9648.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 12060.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 14472.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 16884.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 19296.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 21708.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 24120.0 | ---- | | | | | 74.00 | 54.00 | | | |

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g)

Operation Mode 802.11g TX CH Low Test Date Oct. 26, 2009
Fundamental Frequency 2412MHz Test By Jason
Temperature 25 °C Pol Hor
Humidity 65 %

| Freq. (MHz) | Peak | AV | | Actual FS | | Peak | AV | | Margin (dB) | Remark |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------------------|-------------------|--------|----------------|--------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | Limit (dBuV/m) | | | |
| 4824.0 | 34.14 | ---- | 6.05 | 40.19 | ---- | 74.00 | 54.00 | -13.81 | Peak | |
| 7236.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 9648.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 12060.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 14472.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 16884.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 19296.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 21708.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 24120.0 | ---- | | | | | 74.00 | 54.00 | | | |

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g)

Operation Mode 802.11g TX CH Mid Test Date Oct. 26, 2009
Fundamental Frequency 2437MHz Test By Jason
Temperature 25 °C Pol Ver
Humidity 65 %

| Freq. (MHz) | Peak | AV | | Actual FS | | Peak | AV | | Margin (dB) | Remark |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------------------|-------------------|--------|----------------|--------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | Limit (dBuV/m) | | | |
| 4874.0 | 33.69 | ---- | 6.20 | 39.89 | ---- | 74.00 | 54.00 | -14.11 | Peak | |
| 7311.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 9748.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 12185.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 14622.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 17059.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 19496.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 21933.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 24370.0 | ---- | | | | | 74.00 | 54.00 | | | |

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g)

Operation Mode 802.11g TX CH Mid Test Date Oct. 26, 2009
Fundamental Frequency 2437MHz Test By Jason
Temperature 25 °C Pol Hor
Humidity 65 %

| Freq. (MHz) | Peak | AV | | Actual FS | | Peak | AV | | Margin (dB) | Remark |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------------------|-------------------|--------|----------------|--------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | Limit (dBuV/m) | | | |
| 4874.0 | 33.97 | ---- | 6.20 | 40.17 | ---- | 74.00 | 54.00 | -13.83 | Peak | |
| 7311.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 9748.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 12185.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 14622.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 17059.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 19496.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 21933.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 24370.0 | ---- | | | | | 74.00 | 54.00 | | | |

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g)

Operation Mode 802.11g TX CH High Test Date Oct. 26, 2009
Fundamental Frequency 2462MHz Test By Jason
Temperature 25 °C Pol Ver
Humidity 65 %

| Freq. (MHz) | Peak | AV | | Actual FS | | Peak | AV | | Margin (dB) | Remark |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------------------|-------------------|--------|----------------|--------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | Limit (dBuV/m) | | | |
| 4924.0 | 33.99 | ---- | 6.32 | 40.31 | ---- | 74.00 | 54.00 | -13.69 | Peak | |
| 7386.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 9848.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 12310.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 14772.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 17234.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 19696.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 22158.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 24620.0 | ---- | | | | | 74.00 | 54.00 | | | |

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g)

Operation Mode 802.11g TX CH High Test Date Oct. 26, 2009
Fundamental Frequency 2462MHz Test By Jason
Temperature 25 °C Pol Hor
Humidity 65 %

| Freq. (MHz) | Peak | AV | | Actual FS | | Peak | AV | | Margin (dB) | Remark |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------------------|-------------------|--------|----------------|--------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | Limit (dBuV/m) | | | |
| 4924.0 | 33.94 | ---- | 6.32 | 40.26 | ---- | 74.00 | 54.00 | -13.74 | Peak | |
| 7386.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 9848.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 12310.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 14772.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 17234.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 19696.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 22158.0 | ---- | | | | | 74.00 | 54.00 | | | |
| 24620.0 | ---- | | | | | 74.00 | 54.00 | | | |

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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10 Peak Power Spectral Density

10.1 Standard Applicable:

According to §15.247(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

10.2 Measurement Equipment Used:

Refer to section 6.2 for details.

10.3 Test Set-up:

Refer to section 6.3 for details.

10.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW = 3KHz, VBW = 10KHz, Span = 300kHz, Sweep=100s
4. Record the max. reading.
5. Repeat above procedures until all frequency measured were complete.

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10.5 Measurement Result:

802.11b Mode

| Frequency MHz | RF Power Density Reading (dBm) | Cable loss (dB) | RF Power Density Level (dBm) | Maximum Limit (dBm) |
|------------------|-----------------------------------|--------------------|---------------------------------|------------------------|
| 2412 | -11.84 | 0.00 | -11.84 | 8 |
| 2437 | -11.55 | 0.00 | -11.55 | 8 |
| 2462 | -13.33 | 0.00 | -13.33 | 8 |

802.11g Mode

| Frequency MHz | RF Power Density Reading (dBm) | Cable loss (dB) | RF Power Density Level (dBm) | Maximum Limit (dBm) |
|------------------|-----------------------------------|--------------------|---------------------------------|------------------------|
| 2412 | -13.98 | 0.00 | -13.98 | 8 |
| 2437 | -13.24 | 0.00 | -13.24 | 8 |
| 2462 | -13.34 | 0.00 | -13.34 | 8 |

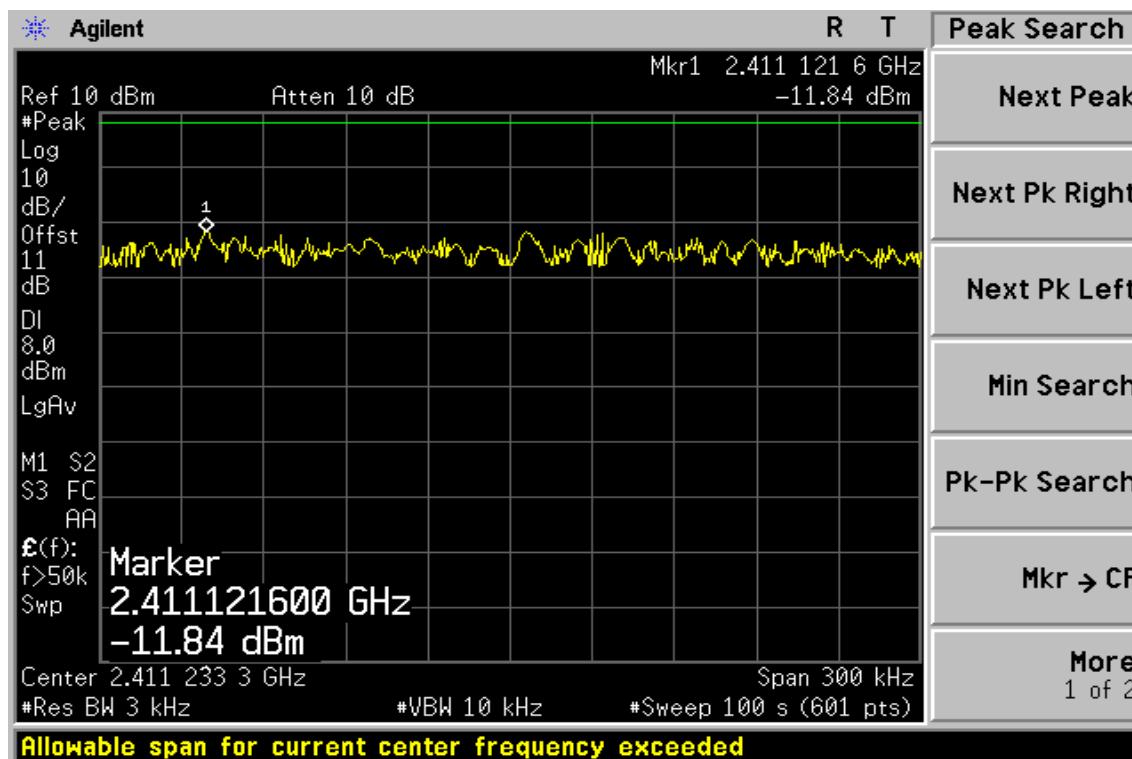
offset 11dB

Note: Refer to next page for plots.

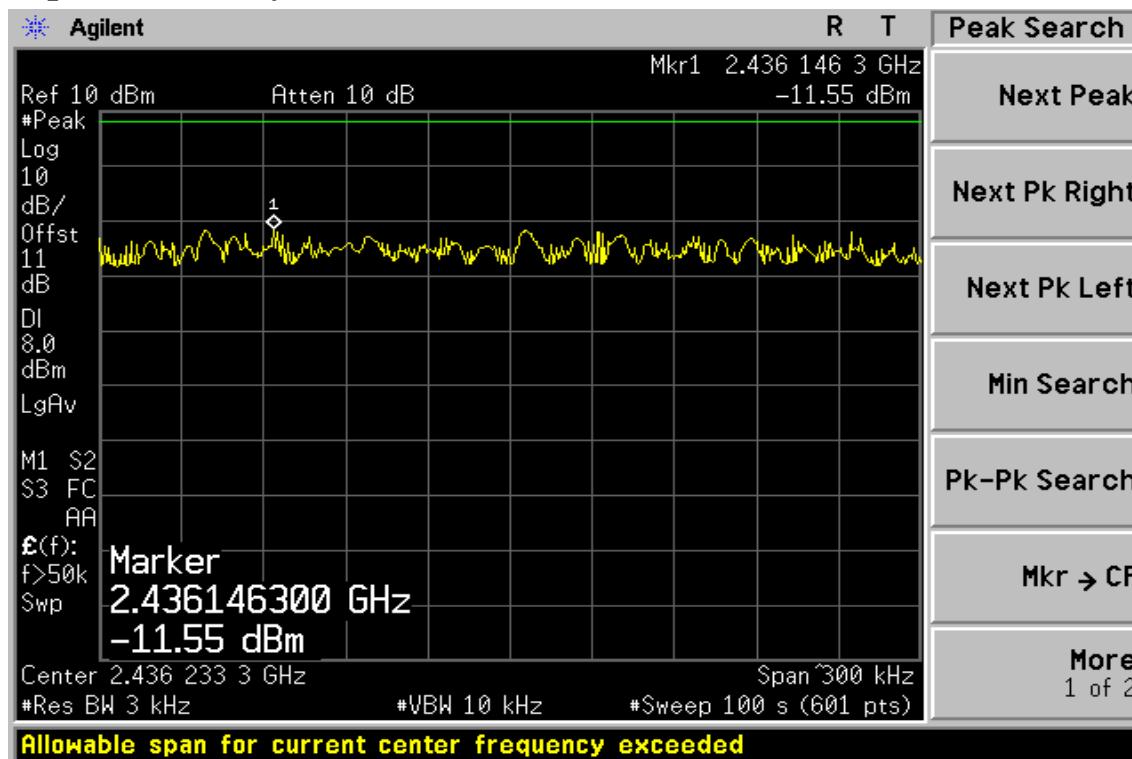
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802.11b

Power Spectral Density Test Plot (CH-Low)

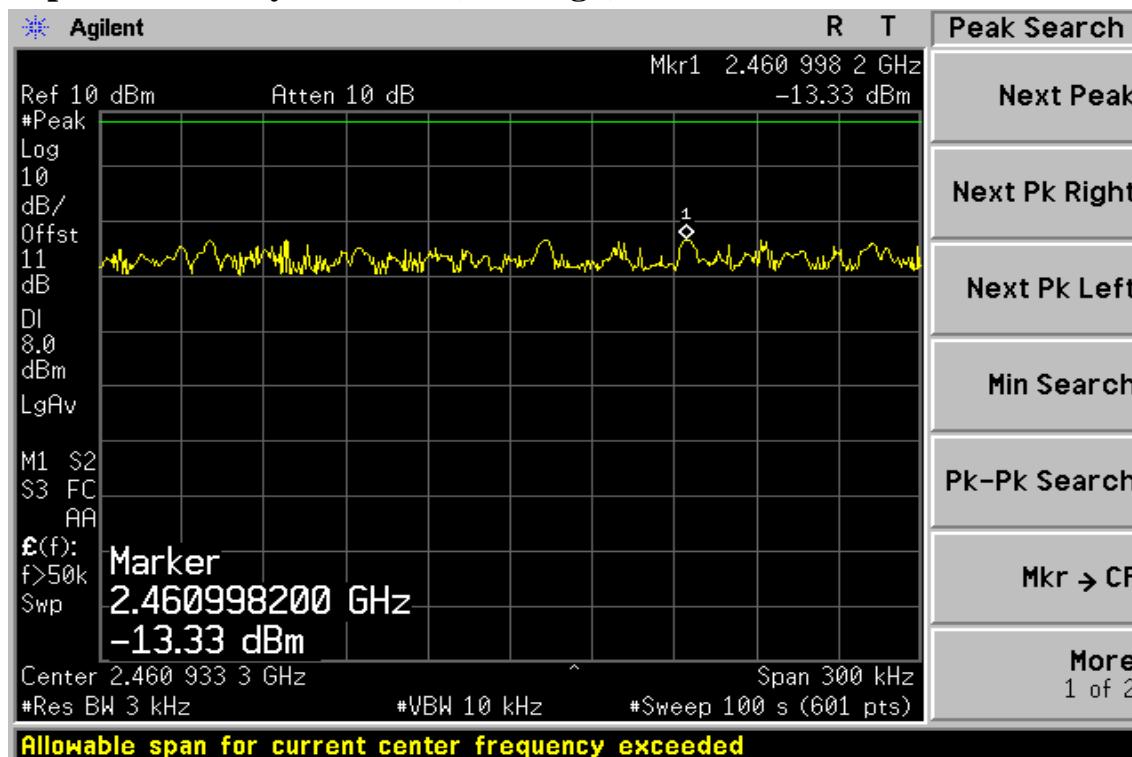


Power Spectral Density Test Plot (CH-Mid)



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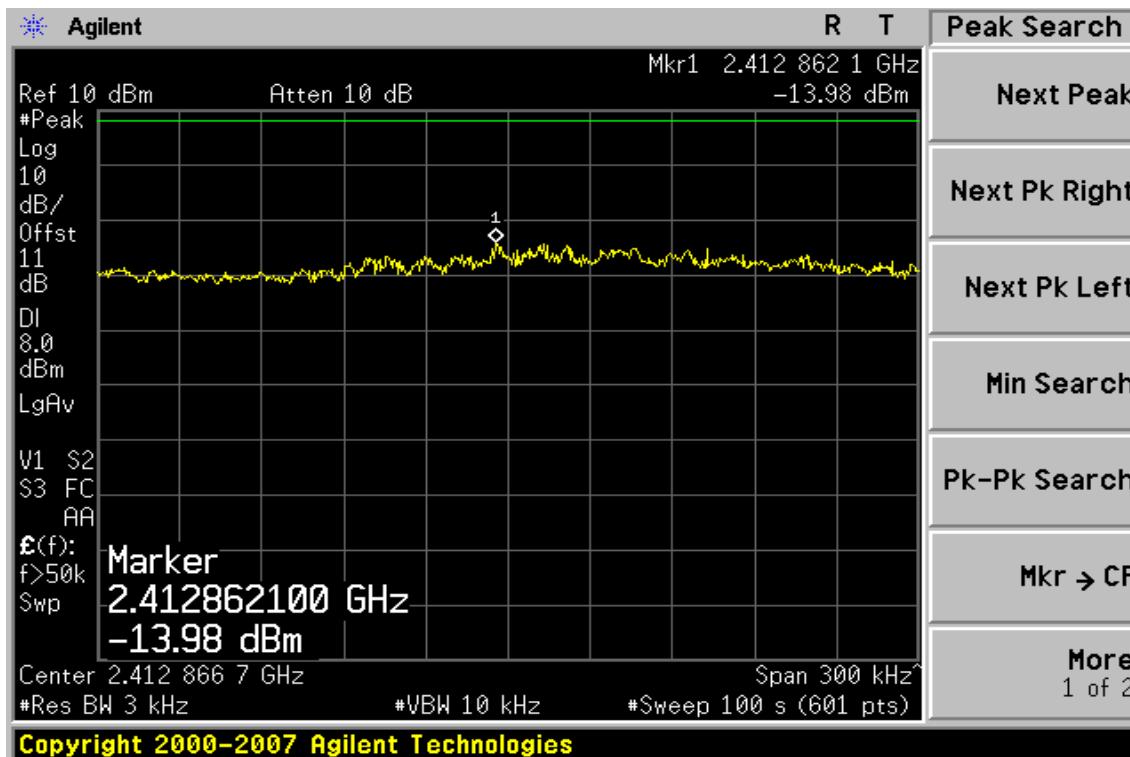
Power Spectral Density Test Plot (CH-High)



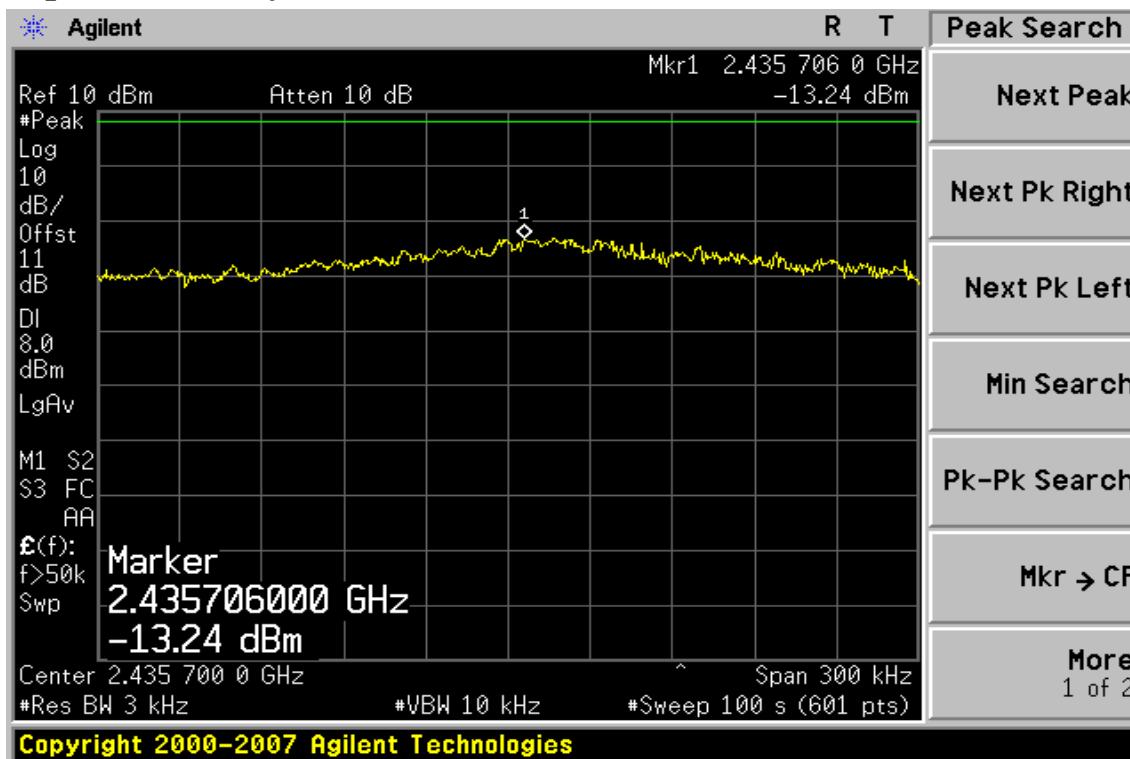
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802.11g

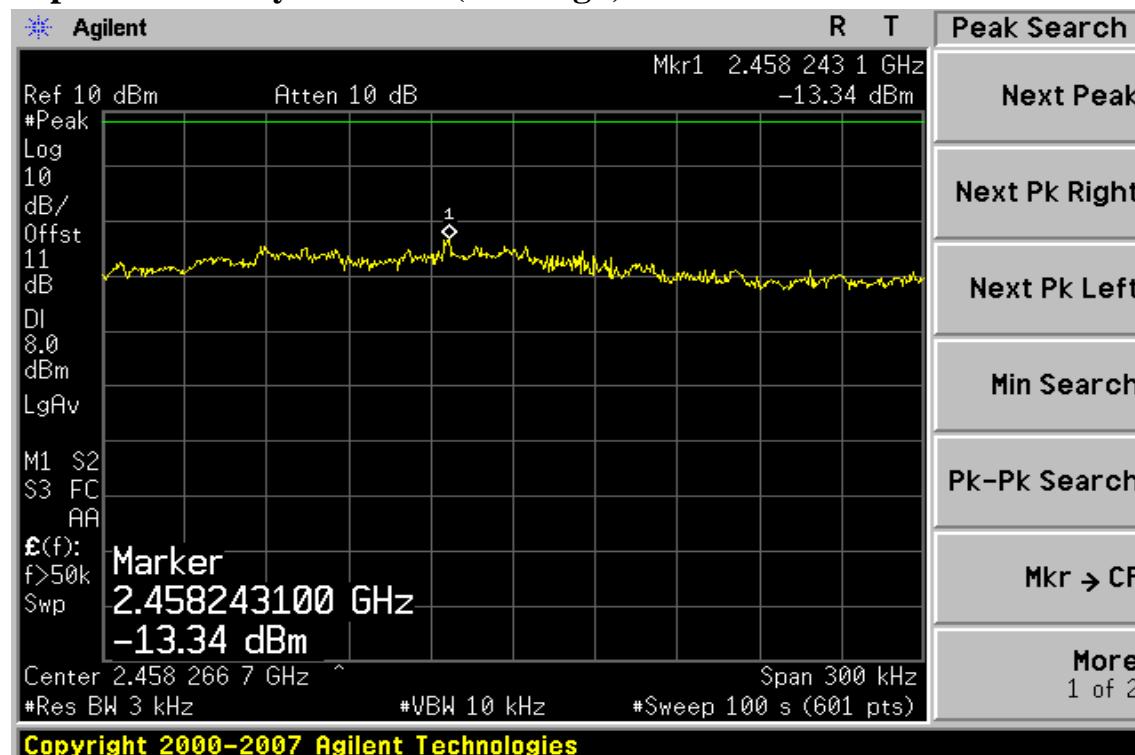
Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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Power Spectral Density Test Plot (CH-High)

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11 ANTENNA REQUIREMENT

11.1 Standard Applicable:

According to §15.203, Antenna requirement.

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

11.2 Antenna Connected Construction:

The directional gains of antenna used for transmitting is 0.7dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Please see EUT photo for details.

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