

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 15 SUBPART C AND CANADA RSS-210 REQUIREMENT**

OF

Product Name: USB2
Brand Name: Dynastream
FCC Model Name: USB2
IC Model Name: 011-02209-01
Model Difference: MODEL NAME DIFFERENCE
FCC ID: O6RUSB2
IC: 3797A-USB2
Report No.: ER/2010/10014-15
Issue Date: Feb. 05, 2010
FCC Rule Part: §15.249
IC Rule Part: RSS-210 issue 7:2007, Annex 2.9
Prepared for: Dynastream Innovations
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Prepared by: SGS Taiwan Ltd.
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VERIFICATION OF COMPLIANCE

Applicant: Dynastream Innovations
228 River Avenue, Cochrane AB, Canada, T4C 2C1

Product Description: USB2

FCC ID: O6RUSB2

IC: 3797A-USB2

Brand Name: Dynastream

FCC Model No.: USB2

IC Model No.: 011-02209-01

Model Difference: MODEL NAME DIFFERENCE

File Number: ER/2010/10014-15

Date of test: Jan. 19, 2010 ~ Feb. 02, 2010

Date of EUT Received: Jan. 18, 2010

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 15.249 and RSS-210 issue 7: 2007 Annex 2.9.

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

Test By: Bear Huang **Date:** Feb. 05, 2010

Bear Huang/ Engineer

Prepared By: Alex Chen **Date:** Feb. 05, 2010

Alex Chen / Project Engineer

Approved By: Vincent Su **Date:** Feb. 05, 2010

Vincent Su / Manager

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Version

| Version No. | Date | Description |
|-------------|---------------|------------------------------|
| 00 | Feb. 05, 2010 | Initial creation of document |
| | | |

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1. GENERAL INFORMATION

1.1. Product Description

| | |
|----------------------|--------------------------------------|
| Product Name: | USB2 |
| Brand Name: | Dynastream |
| FCC Model Name: | USB2 |
| IC Model Name | 011-02209-01 |
| Model Difference: | MODEL NAME DIFFERENCE |
| Operation Frequency: | 2403 ~2480 MHz, Channel spacing:1MHz |
| Channel number: | 78 channels |
| Modulation Type: | GFSK |
| Power Supply | NA |
| Antenna Designation: | Printed Antenna / 0dBi |

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

This submittal(s) (test report) is intended for **FCC ID: O6RUSB2** filing to comply with Section 15.249 of the FCC Part 15, Subpart C Rules and **IC: 3797A-USB2** filing to comply with Industry Canada RSS-210 issue 7: 2007 Annex 2.9.

1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003) and RSS-Gen: 2007. 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 are: 990257 and 236194, Canada Registration Number: 4620A.

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.

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 Transmitter was operated in the engineering operating mode. the Tx frequency was fixed at 2403, 2440 and 2480MHz which were 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 and RSS-Gen: 2007. 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 according to the requirements in Section 8 and 13 of ANSI C63.4-2003 and RSS-Gen:2007.

2.4. Limitation

(1) Conducted Emission

According to section 15.207(a) and RSS-Gen §7.2.2 Conducted Emission Limits is as following.

| Frequency (MHz) | Conducted Limit (dBuV) | |
|-----------------|------------------------|---------|
| | Quasi-Peak | Average |
| 0.15 – 0.5 | 66 - 56 | 56 - 46 |
| 0.5 – 5 | 56 | 46 |
| 5 - 30 | 60 | 50 |

(2) Radiated Emission 15.249(a) and RSS-210 issue 7,§A2.9(a)

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following.

| Frequency (MHz) | Field strength of Fundamental | Field strength of Harmonics | Distance (m) |
|-----------------|-------------------------------|-----------------------------|--------------|
| 902 - 928 | 50 mV/m (94dBuV/m) | 500 uV/m (54dBuV/m) | 3 |
| 2400 – 2483.5 | 50 mV/m (94dBuV/m) | 500 uV/m (54dBuV/m) | 3 |
| 5725 – 5875 | 50 mV/m (94dBuV/m) | 500 uV/m (54dBuV/m) | 3 |

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(3) Radiated Emission 15.249 (d) and RSS-210 issue 7, §A2.9(b)

Emission Radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in Section 15.209 and RSS-210 issue 7, §A2.9(a) as below, whichever is the lesser attenuation.

| Frequency (MHz) | Field strength $\mu\text{V/m}$ | Distance (m) | Field strength at 3m $\text{dB}\mu\text{V/m}$ |
|--------------------|-----------------------------------|--------------|--|
| 1.705-30 | 30 | 30 | 69.54 |
| 30-88 | 100 | 3 | 40 |
| 88-216 | 150 | 3 | 43.5 |
| 216-960 | 200 | 3 | 46 |
| Above 960 | 500 | 3 | 54 |

(4) Radiated Emission 15.249(e) and RSS-210 issue 7

For frequencies above 1000MHz, the above field strength limits are based on average limits. The peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20dB under any condition of modulation.

- Remark:
1. Emission level in $\text{dB}\mu\text{V/m} = 20 \log (\mu\text{V/m})$
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of § 15.205
 4. Emission spurious frequency which appearing within the Restricted Bands specified in provision of § 15.205, then the general radiated emission limits in § 15.209 apply.

2.5. Configuration of Tested System

Fig. 2-1 Configuration of TX

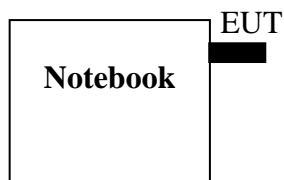


Table 2-2 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/ Type No. | FCC ID | Series No. | Data Cable | Power Cord |
|------|-----------|------------|--------------------|--------|------------|------------|------------|
| 1. | Soft ware | ANTWare_II | N/A | N/A | N/A | N/A | N/A |

Note: All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

Grounding: Grounding was in accordance with the manufacturer's requirements and conditions for the intended use.

3. Summary of Test Results

| FCC Rules | Description Of Test | Result |
|--|-----------------------------|-----------|
| §15.207/ RSS-Gen §7.2.2 | Conducted Emission | N/A |
| §15.249(a)(d) RSS-210 issue 7, §A2.9(a) | Field Strength Measurement | Compliant |
| §15.249(e) RSS-210 issue 7, §A2.9(b) | TX Spurious Emission | Compliant |
| §15.249(d) | 26dB band width Measurement | Compliant |
| RSS-Gen §4.4.1 | 99% Power Bandwidth | Compliant |

Description of test modes

The EUT has been tested under operating condition.

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

Channel low (2403MHz)、mid (2440MHz) and high (2480MHz) with highest data rate are chosen for full testing.

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4. Conducted Emissions Test

4.1 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.

4.2 Test SET-UP (Block Diagram of Configuration)

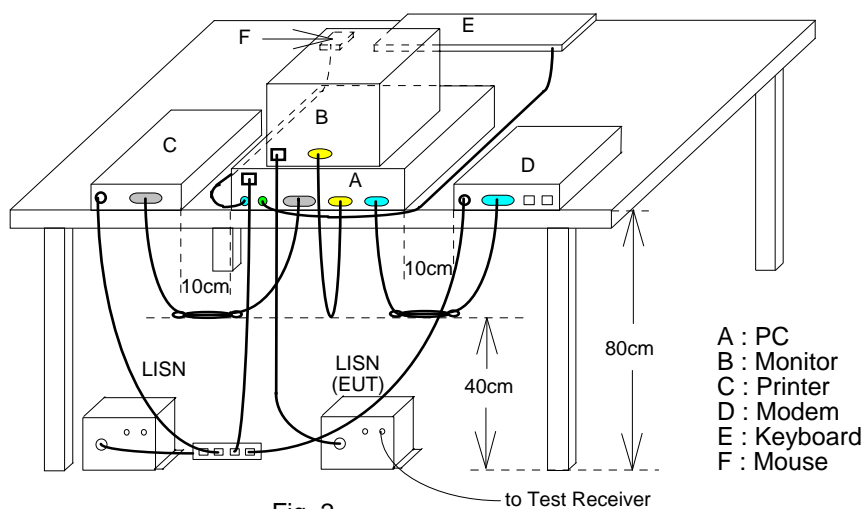


Fig. 2

4.3 Measurement Equipment Used:

| 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 | 02/02/2010 | 02/01/2011 |
| LISN | FCC | FCC-LISN-50/250-25-2-01 | 04034 | 02/02/2010 | 02/01/2011 |
| Coaxial Cables | N/A | WK CE Cable | N/A | 10/30/2009 | 10/29/2010 |

4.4 Measurement Result:

N/A.

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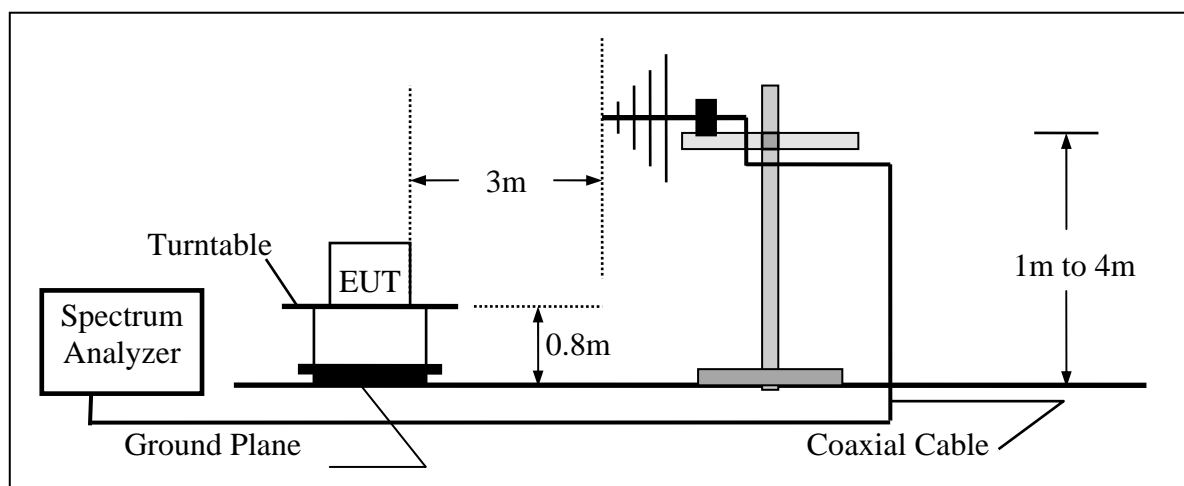
5. Radiated Emission Test

5.1 Measurement Procedure

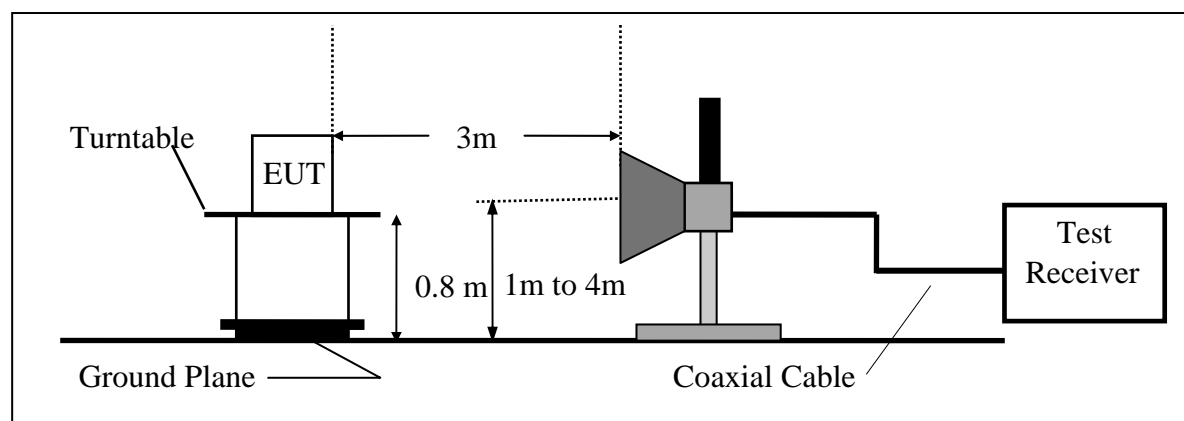
1. The EUT was placed on a turntable that is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

5.2 Test SET-UP (Block Diagram of Configuration)

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



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



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5.3 Measurement Equipment Used:

| 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 |
| Bilog Antenna | SCHWAZBECK | VULB9160 | 9160-3136 | 11/15/2009 | 11/14/2010 |
| Horn antenna | SCHWAZBECK | BBHA 9120D | 9120D-673 | 05/09/2008 | 05/08/2010 |
| Pre-Amplifier | Agilent | 8447D | 1937A02834 | 11/30/2009 | 11/29/2010 |
| Pre-Amplifier | Agilent | 8449B | 3008A01973 | 01/05/2010 | 01/04/2011 |
| 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 | 01/05/2010 | 01/04/2011 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA-3M | 3m | 01/05/2010 | 01/04/2011 |
| 3m Site | SGS | 966 chamber | N/A | 11/08/2009 | 11/09/2010 |

5.4 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 | |

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5.5 Measurement Result

Radiated Spurious Emission Measurement Result (below 1GHz)

| | | | |
|-----------------------|-----------|-----------|---------------|
| Operation Mode | TX CH Low | Test Date | Jan. 29, 2010 |
| Fundamental Frequency | 2403MHz | Test By | Bear |
| 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) |
|----------------|-----------------|-----------------------------|-------------------|----------------|-----------------------|---------------------|---------------------|
| 36.79 | V | Peak | 48.43 | -14.36 | 34.07 | 40.00 | -5.93 |
| 58.13 | V | Peak | 44.48 | -14.66 | 29.82 | 40.00 | -10.18 |
| 101.78 | V | Peak | 45.58 | -16.87 | 28.71 | 43.50 | -14.79 |
| 198.78 | V | Peak | 41.14 | -15.56 | 25.58 | 43.50 | -17.92 |
| 383.08 | V | Peak | 35.99 | -10.57 | 25.42 | 46.00 | -20.58 |
| 565.44 | V | Peak | 38.82 | -7.15 | 31.67 | 46.00 | -14.33 |
| 40.67 | H | Peak | 42.26 | -13.74 | 28.52 | 40.00 | -11.48 |
| 104.69 | H | Peak | 39.23 | -16.63 | 22.60 | 43.50 | -20.90 |
| 198.78 | H | Peak | 38.69 | -15.56 | 23.13 | 43.50 | -20.37 |
| 492.69 | H | Peak | 34.86 | -8.50 | 26.36 | 46.00 | -19.64 |
| 683.78 | H | Peak | 34.12 | -5.00 | 29.12 | 46.00 | -16.88 |
| 834.13 | H | Peak | 34.71 | -2.28 | 32.43 | 46.00 | -13.57 |

Remark:

- 1 No further spurious emissions detected from the lowest internal frequency and 30MHz.
- 2 Measuring frequencies from the lowest internal frequency to the 1GHz.
- 3 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak / QP detector mode.
- 4 Measurement result 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.
- 5 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz, VBW=300KHz.

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Radiated Spurious Emission Measurement Result (below 1GHz)

| | | | |
|-----------------------|-----------|-----------|---------------|
| Operation Mode | TX CH Mid | Test Date | Jan. 29, 2010 |
| Fundamental Frequency | 2440MHz | Test By | Bear |
| 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) |
|----------------|-----------------|-----------------------------|-------------------|----------------|-----------------------|---------------------|---------------------|
| 36.79 | V | Peak | 48.57 | -14.36 | 34.21 | 40.00 | -5.79 |
| 90.14 | V | Peak | 45.25 | -17.62 | 27.63 | 43.50 | -15.87 |
| 104.69 | V | Peak | 46.44 | -16.63 | 29.81 | 43.50 | -13.69 |
| 383.08 | V | Peak | 36.58 | -10.57 | 26.01 | 46.00 | -19.99 |
| 565.44 | V | Peak | 38.16 | -7.15 | 31.01 | 46.00 | -14.99 |
| 798.24 | V | Peak | 36.79 | -3.08 | 33.71 | 46.00 | -12.29 |
| 58.13 | H | Peak | 44.04 | -14.66 | 29.38 | 40.00 | -10.62 |
| 104.69 | H | Peak | 46.10 | -16.63 | 29.47 | 43.50 | -14.03 |
| 145.43 | H | Peak | 45.11 | -13.14 | 31.97 | 43.50 | -11.53 |
| 504.33 | H | Peak | 35.21 | -8.44 | 26.77 | 46.00 | -19.23 |
| 672.14 | H | Peak | 33.66 | -5.04 | 28.62 | 46.00 | -17.38 |
| 872.93 | H | Peak | 33.65 | -1.56 | 32.09 | 46.00 | -13.91 |

Remark:

- 1 No further spurious emissions detected from the lowest internal frequency and 30MHz.
- 2 Measuring frequencies from the lowest internal frequency to the 1GHz.
- 3 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak / QP detector mode.
- 4 Measurement result 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.
- 5 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz, VBW=300KHz.

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Radiated Spurious Emission Measurement Result (below 1GHz)

| | | | |
|-----------------------|------------|-----------|---------------|
| Operation Mode | TX CH High | Test Date | Jan. 29, 2010 |
| Fundamental Frequency | 2480MHz | Test By | Bear |
| 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) |
|----------------|-----------------|-----------------------------|-------------------|----------------|-----------------------|---------------------|---------------------|
| 58.13 | V | Peak | 45.43 | -14.66 | 30.77 | 40.00 | -9.23 |
| 106.63 | V | Peak | 46.13 | -16.48 | 29.65 | 43.50 | -13.85 |
| 213.33 | V | Peak | 41.66 | -15.16 | 26.50 | 43.50 | -17.00 |
| 383.08 | V | Peak | 36.65 | -10.57 | 26.08 | 46.00 | -19.92 |
| 565.44 | V | Peak | 37.67 | -7.15 | 30.52 | 46.00 | -15.48 |
| 798.24 | V | Peak | 37.90 | -3.08 | 34.82 | 46.00 | -11.18 |
| 38.73 | H | Peak | 44.04 | -13.84 | 30.20 | 40.00 | -9.80 |
| 56.19 | H | Peak | 41.25 | -14.63 | 26.62 | 40.00 | -13.38 |
| 104.69 | H | Peak | 38.95 | -16.63 | 22.32 | 43.50 | -21.18 |
| 198.78 | H | Peak | 38.37 | -15.56 | 22.81 | 43.50 | -20.69 |
| 434.49 | H | Peak | 35.48 | -9.01 | 26.47 | 46.00 | -19.53 |
| 623.64 | H | Peak | 34.46 | -5.51 | 28.95 | 46.00 | -17.05 |

Remark:

- 1 No further spurious emissions detected from the lowest internal frequency and 30MHz.
- 2 Measuring frequencies from the lowest internal frequency to the 1GHz.
- 3 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak / QP detector mode.
- 4 Measurement result 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.
- 5 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz, VBW=300KHz.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode: TX CH Low
Fundamental Frequency: 2403MHz
Temperature : 25 °C
Humidity : 65 %

Test Date : Jan. 29, 2010
Test By: Bear
Pol: Vertical

| Freq. (MHz) | Ant.Pol. H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Factor (dB) | Actual Peak FS (dBuV/m) | Actual AV FS (dBuV/m) | Peak Limit at 3m (dBuV/m) | AV Limit at 3m (dBuV/m) | Margin (dB) | |
|----------------|-----------------|---------------------------|-------------------------|----------------|-------------------------------|-----------------------------|---------------------------------|-------------------------------|----------------|---|
| 2403.0 | V | 82.17 | -- | -1.30 | 80.87 | -- | 114.00 | 94.00 | -13.13 | F |
| 4806.0 | V | 38.54 | -- | 5.99 | 44.53 | -- | 74.00 | 54.00 | -9.47 | H |
| 7209.0 | V | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 9612.0 | V | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 12015.0 | V | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 14418.0 | V | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 16821.0 | V | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 19224.0 | V | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 21627.0 | V | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 24030.0 | V | -- | -- | | | -- | 74.00 | 54.00 | | H |

Remark:

- 1 Measuring frequencies from the lowest internal frequency to the 10th of fundamental frequency
- 2 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 3 “F” denotes fundamental frequency; “H” denotes harmonics frequency. “S” denotes spurious frequency.
- 4 Measurement of data 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.
- 5 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 6 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode: TX CH Low
Fundamental Frequency: 2403MHz
Temperature : 25 °C
Humidity : 65 %

Test Date : Jan. 29, 2010
Test By: Bear
Pol: Horizontal

| Freq. (MHz) | Ant.Pol. H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Factor (dB) | Actual Peak FS (dBuV/m) | Actual AV FS (dBuV/m) | Peak Limit at 3m (dBuV/m) | AV Limit at 3m (dBuV/m) | Margin (dB) | |
|----------------|-----------------|---------------------------|-------------------------|----------------|-------------------------------|-----------------------------|---------------------------------|-------------------------------|----------------|---|
| 2403.0 | H | 92.47 | -- | -1.30 | 91.17 | -- | 114.00 | 94.00 | -2.83 | F |
| 4806.0 | H | 39.30 | -- | 5.99 | 45.29 | -- | 74.00 | 54.00 | -8.71 | H |
| 7209.0 | H | 42.24 | 15.23 | 12.89 | 55.13 | 28.12 | 74.00 | 54.00 | -25.88 | H |
| 9612.0 | H | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 12015.0 | H | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 14418.0 | H | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 16821.0 | H | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 19224.0 | H | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 21627.0 | H | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 24030.0 | H | -- | -- | | | -- | 74.00 | 54.00 | | H |

Remark:

- 1 Measuring frequencies from the lowest internal frequency to the 10th of fundamental frequency
- 2 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 3 "F" denotes fundamental frequency; "H" denotes harmonics frequency. "S" denotes spurious frequency.
- 4 Measurement of data 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.
- 5 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 6 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode: TX CH Mid
Fundamental Frequency: 2440MHz
Temperature : 25 °C
Humidity : 65 %

Test Date : Jan. 29, 2010
Test By: Bear
Pol: Vertical

| Freq. (MHz) | Ant.Pol. H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Factor (dB) | Actual Peak FS (dBuV/m) | Actual AV FS (dBuV/m) | Peak Limit at 3m (dBuV/m) | AV Limit at 3m (dBuV/m) | Margin (dB) | |
|----------------|-----------------|---------------------------|-------------------------|----------------|-------------------------------|-----------------------------|---------------------------------|-------------------------------|----------------|---|
| 2440.0 | V | 82.30 | -- | -1.13 | 81.17 | -- | 114.00 | 94.00 | -12.83 | F |
| 4880.0 | V | 37.74 | -- | 6.17 | 43.91 | -- | 74.00 | 54.00 | -10.09 | H |
| 7320.0 | V | 41.68 | 14.69 | 12.90 | 54.58 | 27.59 | 74.00 | 54.00 | -26.41 | H |
| 9760.0 | V | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 12200.0 | V | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 14640.0 | V | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 17080.0 | V | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 19520.0 | V | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 21960.0 | V | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 24400.0 | V | -- | -- | | | -- | 74.00 | 54.00 | | H |

Remark:

- 1 Measuring frequencies from the lowest internal frequency to the 10th of fundamental frequency
- 2 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 3 "F" denotes fundamental frequency; "H" denotes harmonics frequency. "S" denotes spurious frequency.
- 4 Measurement of data 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.
- 5 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 6 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode: TX CH Mid
Fundamental Frequency: 2440MHz
Temperature : 25 °C
Humidity : 65 %

Test Date : Jan. 29, 2010
Test By: Bear
Pol: Horizontal

| Freq. | Ant.Pol. | Peak Reading | AV Reading | Factor | Actual Peak FS | Actual AV FS | Peak Limit at 3m | AV Limit at 3m | Margin | |
|---------|----------|--------------|------------|--------|----------------|--------------|------------------|----------------|--------|---|
| (MHz) | H/V | (dBuV) | (dBuV) | (dB) | (dBuV/m) | (dBuV/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 2440.0 | H | 92.21 | -- | -1.13 | 91.08 | -- | 114.00 | 94.00 | -2.92 | F |
| 4880.0 | H | 40.25 | -- | 6.17 | 46.42 | -- | 74.00 | 54.00 | -7.58 | H |
| 7320.0 | H | 45.70 | 18.71 | 12.90 | 58.60 | 31.61 | 74.00 | 54.00 | -22.39 | H |
| 9760.0 | H | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 12200.0 | H | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 14640.0 | H | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 17080.0 | H | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 19520.0 | H | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 21960.0 | H | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 24400.0 | H | -- | -- | | | -- | 74.00 | 54.00 | | H |

Remark:

- 1 Measuring frequencies from the lowest internal frequency to the 10th of fundamental frequency
- 2 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 3 "F" denotes fundamental frequency; "H" denotes harmonics frequency. "S" denotes spurious frequency.
- 4 Measurement of data 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.
- 5 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 6 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode: TX CH High
 Fundamental Frequency: 2480MHz
 Temperature : 25 °C
 Humidity : 65 %

Test Date : Jan. 29, 2010
 Test By: Bear
 Pol: Vertical

| Freq. (MHz) | Ant.Pol. H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Factor (dB) | Actual Peak FS (dBuV/m) | Actual AV FS (dBuV/m) | Peak Limit at 3m (dBuV/m) | AV Limit at 3m (dBuV/m) | Margin (dB) | |
|----------------|-----------------|---------------------------|-------------------------|----------------|-------------------------------|-----------------------------|---------------------------------|-------------------------------|----------------|---|
| 1240.5 | V | 40.40 | -- | -7.08 | 33.32 | -- | 74.00 | 54.00 | -20.68 | H |
| 2480.0 | V | 81.03 | -- | -0.92 | 80.11 | -- | 114.00 | 94.00 | -13.89 | F |
| 4960.0 | V | 37.63 | -- | 6.36 | 43.99 | -- | 74.00 | 54.00 | -10.01 | H |
| 7440.0 | V | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 9920.0 | V | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 12400.0 | V | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 14880.0 | V | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 17360.0 | V | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 19840.0 | V | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 22320.0 | V | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 24800.0 | V | -- | -- | | | -- | 74.00 | 54.00 | | H |

Remark:

- 1 Measuring frequencies from the lowest internal frequency to the 10th of fundamental frequency
- 2 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 3 "F" denotes fundamental frequency; "H" denotes harmonics frequency. "S" denotes spurious frequency.
- 4 Measurement of data 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.
- 5 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 6 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode: TX CH High
Fundamental Frequency: 2480MHz
Temperature : 25 °C
Humidity : 65 %

Test Date : Jan. 29, 2010
Test By: Bear
Pol: Horizontal

| Freq. (MHz) | Ant.Pol. H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Factor (dB) | Actual Peak FS (dBuV/m) | Actual AV FS (dBuV/m) | Peak Limit at 3m (dBuV/m) | AV Limit at 3m (dBuV/m) | Margin (dB) | |
|----------------|-----------------|---------------------------|-------------------------|----------------|-------------------------------|-----------------------------|---------------------------------|-------------------------------|----------------|---|
| 1240.5 | H | 47.26 | -- | -7.08 | 40.18 | -- | 74.00 | 54.00 | -13.82 | H |
| 2480.0 | H | 89.70 | -- | -0.92 | 88.78 | -- | 114.00 | 94.00 | -5.22 | F |
| 4960.0 | H | 40.97 | -- | 6.36 | 47.33 | -- | 74.00 | 54.00 | -6.67 | H |
| 7440.0 | H | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 9920.0 | H | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 12400.0 | H | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 14880.0 | H | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 17360.0 | H | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 19840.0 | H | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 22320.0 | H | -- | -- | | | -- | 74.00 | 54.00 | | H |
| 24800.0 | H | -- | -- | | | -- | 74.00 | 54.00 | | H |

Remark:

- 1 Measuring frequencies from the lowest internal frequency to the 10th of fundamental frequency
- 2 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 3 "F" denotes fundamental frequency; "H" denotes harmonics frequency. "S" denotes spurious frequency.
- 4 Measurement of data 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.
- 5 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 6 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (below 1GHz)

| | | | |
|-----------------------|-----------|-----------|---------------|
| Operation Mode | RX CH Low | Test Date | Jan. 29, 2010 |
| Fundamental Frequency | 2403MHz | Test By | Bear |
| 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) |
|----------------|-----------------|-----------------------------|-------------------|----------------|-----------------------|---------------------|---------------------|
| 58.13 | V | Peak | 46.25 | -14.66 | 31.59 | 40.00 | -8.41 |
| 104.69 | V | Peak | 47.19 | -16.63 | 30.56 | 43.50 | -12.94 |
| 213.33 | V | Peak | 41.99 | -15.16 | 26.83 | 43.50 | -16.67 |
| 383.08 | V | Peak | 37.98 | -10.57 | 27.41 | 46.00 | -18.59 |
| 523.73 | V | Peak | 40.53 | -8.08 | 32.45 | 46.00 | -13.55 |
| 798.24 | V | Peak | 37.56 | -3.08 | 34.48 | 46.00 | -11.52 |
| 56.19 | H | Peak | 42.16 | -14.63 | 27.53 | 40.00 | -12.47 |
| 106.63 | H | Peak | 38.38 | -16.48 | 21.90 | 43.50 | -21.60 |
| 198.78 | H | Peak | 39.39 | -15.56 | 23.83 | 43.50 | -19.67 |
| 468.44 | H | Peak | 35.18 | -8.55 | 26.63 | 46.00 | -19.37 |
| 654.68 | H | Peak | 33.41 | -4.97 | 28.44 | 46.00 | -17.56 |
| 798.24 | H | Peak | 34.76 | -3.08 | 31.68 | 46.00 | -14.32 |

Remark:

- 1 No further spurious emissions detected from the lowest internal frequency and 30MHz.
- 2 Measuring frequencies from the lowest internal frequency to the 1GHz.
- 3 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak / QP detector mode.
- 4 Measurement result 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.
- 5 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz, VBW=300KHz.

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Radiated Spurious Emission Measurement Result (below 1GHz)

| | | | |
|-----------------------|-----------|-----------|---------------|
| Operation Mode | RX CH Mid | Test Date | Jan. 29, 2010 |
| Fundamental Frequency | 2440MHz | Test By | Bear |
| 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) |
|----------------|-----------------|-----------------------------|-------------------|----------------|-----------------------|---------------------|---------------------|
| 58.13 | V | Peak | 44.51 | -14.66 | 29.85 | 40.00 | -10.15 |
| 104.69 | V | Peak | 45.67 | -16.63 | 29.04 | 43.50 | -14.46 |
| 198.78 | V | Peak | 42.25 | -15.56 | 26.69 | 43.50 | -16.81 |
| 383.08 | V | Peak | 38.56 | -10.57 | 27.99 | 46.00 | -18.01 |
| 565.44 | V | Peak | 38.10 | -7.15 | 30.95 | 46.00 | -15.05 |
| 798.24 | V | Peak | 37.72 | -3.08 | 34.64 | 46.00 | -11.36 |
| 58.13 | H | Peak | 41.05 | -14.66 | 26.39 | 40.00 | -13.61 |
| 92.08 | H | Peak | 39.34 | -17.38 | 21.96 | 43.50 | -21.54 |
| 198.78 | H | Peak | 36.48 | -15.56 | 20.92 | 43.50 | -22.58 |
| 480.08 | H | Peak | 35.57 | -8.56 | 27.01 | 46.00 | -18.99 |
| 618.79 | H | Peak | 34.86 | -5.64 | 29.22 | 46.00 | -16.78 |
| 798.24 | H | Peak | 35.49 | -3.08 | 32.41 | 46.00 | -13.59 |

Remark:

- 1 No further spurious emissions detected from the lowest internal frequency and 30MHz.
- 2 Measuring frequencies from the lowest internal frequency to the 1GHz.
- 3 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak / QP detector mode.
- 4 Measurement result 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.
- 5 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz, VBW=300KHz.

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Radiated Spurious Emission Measurement Result (below 1GHz)

| | | | |
|-----------------------|------------|-----------|---------------|
| Operation Mode | RX CH High | Test Date | Jan. 29, 2010 |
| Fundamental Frequency | 2480MHz | Test By | Bear |
| 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) |
|----------------|-----------------|-----------------------------|-------------------|----------------|-----------------------|---------------------|---------------------|
| 56.19 | V | Peak | 44.50 | -14.63 | 29.87 | 40.00 | -10.13 |
| 104.69 | V | Peak | 46.19 | -16.63 | 29.56 | 43.50 | -13.94 |
| 198.78 | V | Peak | 43.53 | -15.56 | 27.97 | 43.50 | -15.53 |
| 383.08 | V | Peak | 36.81 | -10.57 | 26.24 | 46.00 | -19.76 |
| 565.44 | V | Peak | 37.76 | -7.15 | 30.61 | 46.00 | -15.39 |
| 798.24 | V | Peak | 39.13 | -3.08 | 36.05 | 46.00 | -9.95 |
| 36.79 | H | Peak | 45.92 | -14.36 | 31.56 | 40.00 | -8.44 |
| 104.69 | H | Peak | 41.45 | -16.63 | 24.82 | 43.50 | -18.68 |
| 198.78 | H | Peak | 39.12 | -15.56 | 23.56 | 43.50 | -19.94 |
| 492.69 | H | Peak | 34.61 | -8.50 | 26.11 | 46.00 | -19.89 |
| 696.39 | H | Peak | 34.24 | -5.05 | 29.19 | 46.00 | -16.81 |
| 798.24 | H | Peak | 36.50 | -3.08 | 33.42 | 46.00 | -12.58 |

Remark:

- 1 No further spurious emissions detected from the lowest internal frequency and 30MHz.
- 2 Measuring frequencies from the lowest internal frequency to the 1GHz.
- 3 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak / QP detector mode.
- 4 Measurement result 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.
- 5 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz, VBW=300KHz.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode: RX CH Low
Fundamental Frequency: 2403MHz
Temperature : 25 °C
Humidity : 65 %

Test Date : Jan. 29, 2010
Test By: Bear
Pol: V/H

| Freq. (MHz) | Ant.Pol. H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Factor (dB) | Actual Peak FS (dBuV/m) | Actual AV FS (dBuV/m) | Peak Limit at 3m (dBuV/m) | AV Limit at 3m (dBuV/m) | Margin (dB) | |
|----------------|-----------------|---------------------------|-------------------------|----------------|-------------------------------|-----------------------------|---------------------------------|-------------------------------|----------------|---|
| 4806.0 | V | 35.07 | --- | 6.04 | 41.11 | --- | 74.00 | 54.00 | -12.89 | H |
| 7209.0 | V | ---- | | | | | 74.00 | 54.00 | | |
| 9612.0 | V | ---- | | | | | 74.00 | 54.00 | | |
| 12015.0 | V | ---- | | | | | 74.00 | 54.00 | | |
| 4806.0 | H | 35.00 | --- | 6.04 | 41.04 | --- | 74.00 | 54.00 | -12.96 | H |
| 7209.0 | H | ---- | | | | | 74.00 | 54.00 | | |
| 9612.0 | H | ---- | | | | | 74.00 | 54.00 | | |
| 12015.0 | H | ---- | | | | | 74.00 | 54.00 | | |

Remark:

- 1 Measuring frequencies from the lowest internal frequency to the 10th of fundamental frequency
- 2 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 3 “F” denotes fundamental frequency; “H” denotes harmonics frequency. “S” denotes spurious frequency.
- 4 Measurement of data 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.
- 5 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 6 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode: RX CH Mid
Fundamental Frequency: 2440MHz
Temperature : 25 °C
Humidity : 65 %

Test Date : Jan. 29, 2010
Test By: Bear
Pol: V/H

| Freq. (MHz) | Ant.Pol. H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Factor (dB) | Actual Peak FS (dBuV/m) | Actual AV FS (dBuV/m) | Peak Limit at 3m (dBuV/m) | AV Limit at 3m (dBuV/m) | Margin (dB) | |
|----------------|-----------------|---------------------------|-------------------------|----------------|-------------------------------|-----------------------------|---------------------------------|-------------------------------|----------------|---|
| 4880.0 | V | 34.02 | --- | 6.17 | 40.19 | --- | 74.00 | 54.00 | -13.81 | H |
| 7320.0 | V | ---- | | | | | 74.00 | 54.00 | | |
| 9760.0 | V | ---- | | | | | 74.00 | 54.00 | | |
| 12200.0 | V | ---- | | | | | 74.00 | 54.00 | | |
| 4880.0 | H | 34.07 | --- | 6.17 | 40.24 | --- | 74.00 | 54.00 | -13.76 | H |
| 7320.0 | H | ---- | | | | | 74.00 | 54.00 | | |
| 9760.0 | H | ---- | | | | | 74.00 | 54.00 | | |
| 12200.0 | H | ---- | | | | | 74.00 | 54.00 | | |

Remark:

- 1 Measuring frequencies from the lowest internal frequency to the 10th of fundamental frequency
- 2 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 3 “F” denotes fundamental frequency; “H” denotes harmonics frequency. “S” denotes spurious frequency.
- 4 Measurement of data 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.
- 5 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 6 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode: RX CH High
Fundamental Frequency: 2480MHz
Temperature : 25 °C
Humidity : 65 %

Test Date : Jan. 29, 2010
Test By: Bear
Pol: V/H

| Freq. (MHz) | Ant.Pol. H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Factor (dB) | Actual Peak FS (dBuV/m) | Actual AV FS (dBuV/m) | Peak Limit at 3m (dBuV/m) | AV Limit at 3m (dBuV/m) | Margin (dB) | |
|----------------|-----------------|---------------------------|-------------------------|----------------|-------------------------------|-----------------------------|---------------------------------|-------------------------------|----------------|------|
| 4960.0 | 2.00 | 34.69 | --- | 6.36 | 41.05 | --- | 74.00 | 54.00 | -12.95 | Peak |
| 7440.0 | 3.00 | ---- | | | | | 74.00 | 54.00 | | |
| 9920.0 | 4.00 | ---- | | | | | 74.00 | 54.00 | | |
| 12400.0 | 5.00 | ---- | | | | | 74.00 | 54.00 | | |
| 4960.0 | 2.00 | 35.05 | --- | 6.36 | 41.41 | --- | 74.00 | 54.00 | -12.59 | Peak |
| 7440.0 | 3.00 | ---- | | | | | 74.00 | 54.00 | | |
| 9920.0 | 4.00 | ---- | | | | | 74.00 | 54.00 | | |
| 12400.0 | 5.00 | ---- | | | | | 74.00 | 54.00 | | |

Remark:

- 1 Measuring frequencies from the lowest internal frequency to the 10th of fundamental frequency
- 2 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 3 “F” denotes fundamental frequency; “H” denotes harmonics frequency. “S” denotes spurious frequency.
- 4 Measurement of data 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.
- 5 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 6 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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6. 26 dB Band Width Measurement

6.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set ETU normal operating mode.
3. Set SPA Center Frequency = fundamental frequency, RBW = 100kHz, VBW = 300kHz, Span = 3MHz.
4. Set SPA Max hold. Mark peak, -26dB.

6.2 Test SET-UP (Block Diagram of Configuration)

Same as 4.2 Radiated Emission Measurement.

6.3 Measurement Equipment Used:

Same as 4.2 Radiated Emission Measurement.

6.4 Measurement Results:

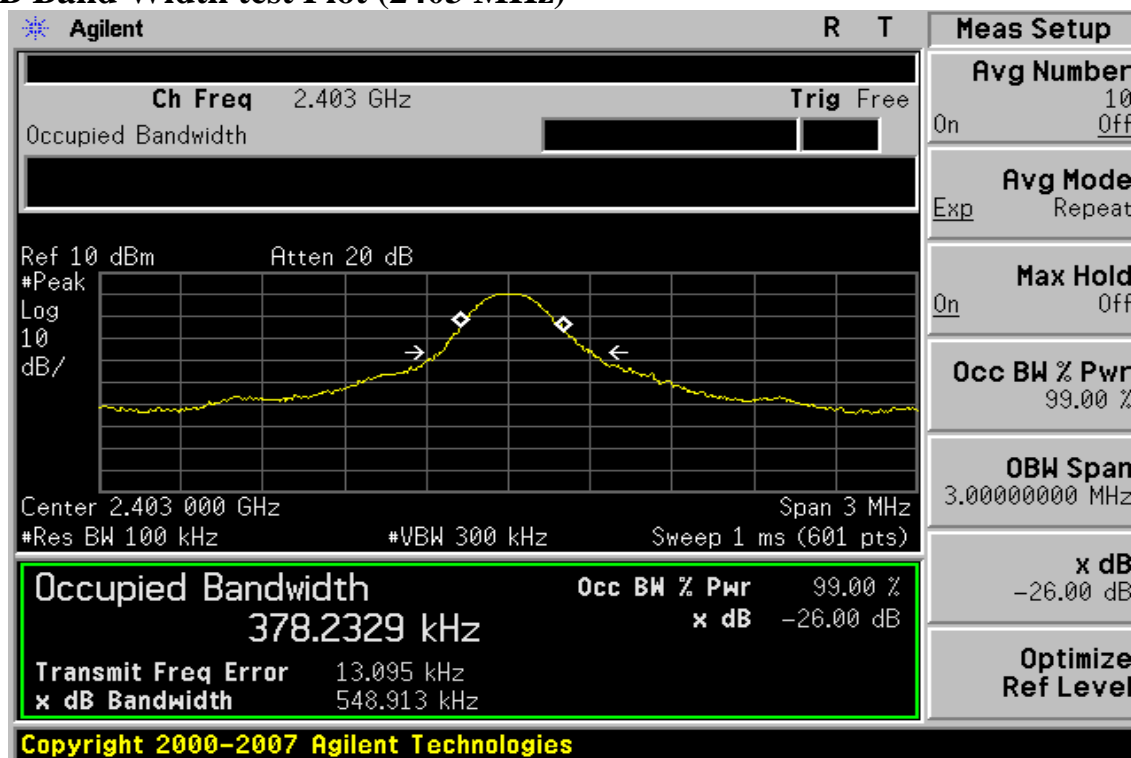
2403 Channel = 548.913kHz

2440 Channel = 515.881kHz

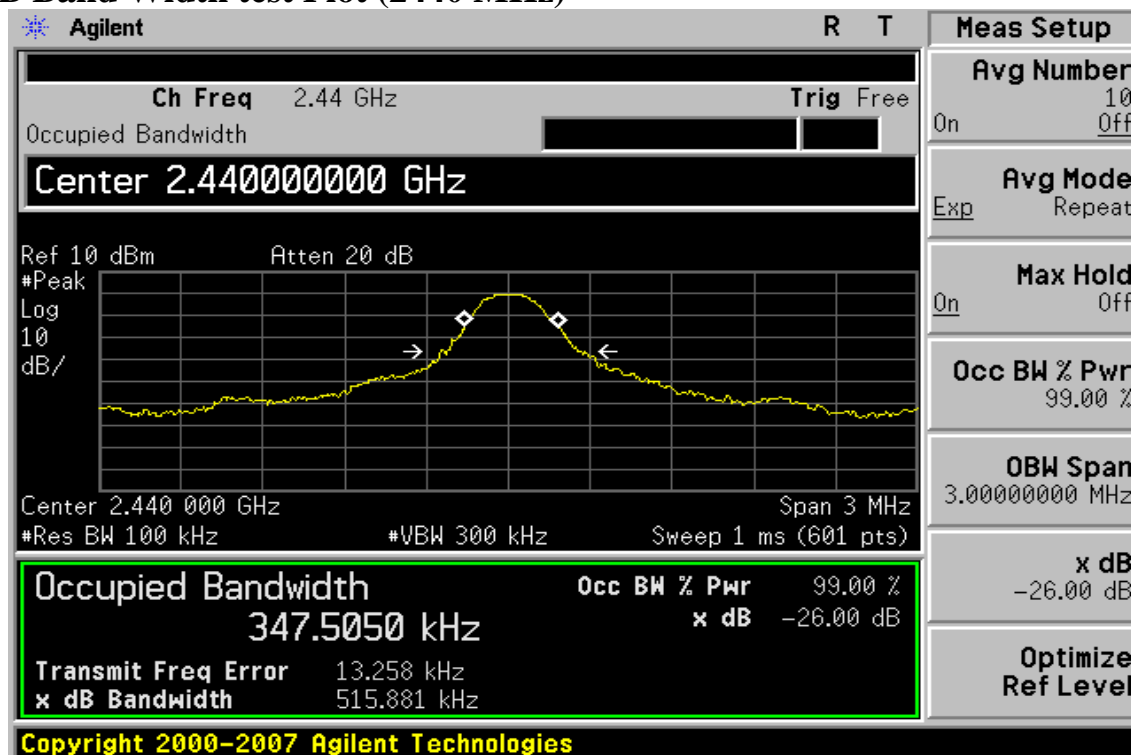
2480 Channel = 544.030.kHz

Refer to attached data chart.

26dB Band Width test Plot (2403 MHz)

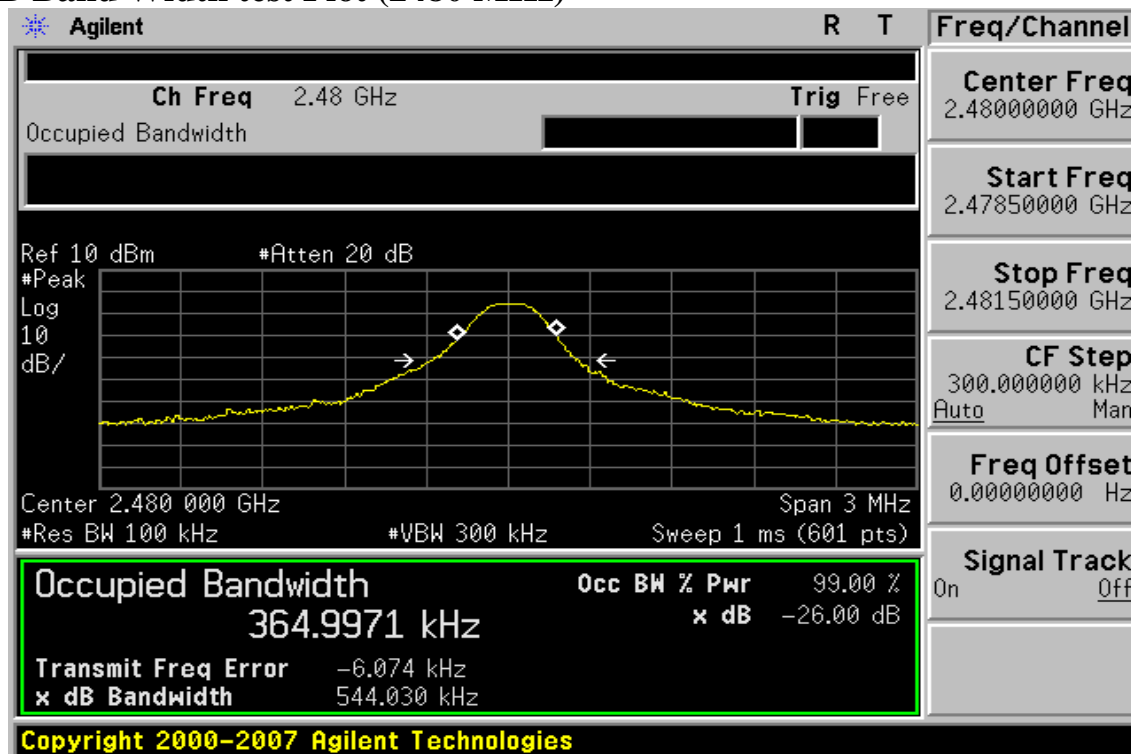


26dB Band Width test Plot (2440 MHz)



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26dB Band Width test Plot (2480 MHz)



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7. 99% Band Width Measurement

7.1 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 $RBW \geq 1\%$ of the approximate emission bandwidth, $VBW = 3$ times RBW , Span= 3MHz below the peak level. Sweep=1ms
- 4 Turn on the 99% bandwidth function, max reading.
- 5 Repeat above procedures until all frequency measured were complete.

7.2 Test SET-UP (Block Diagram of Configuration)

Same as 4.2 Radiated Emission Measurement.

7.3 Measurement Equipment Used:

Same as 4.2 Radiated Emission Measurement.

7.4 Measurement Results:

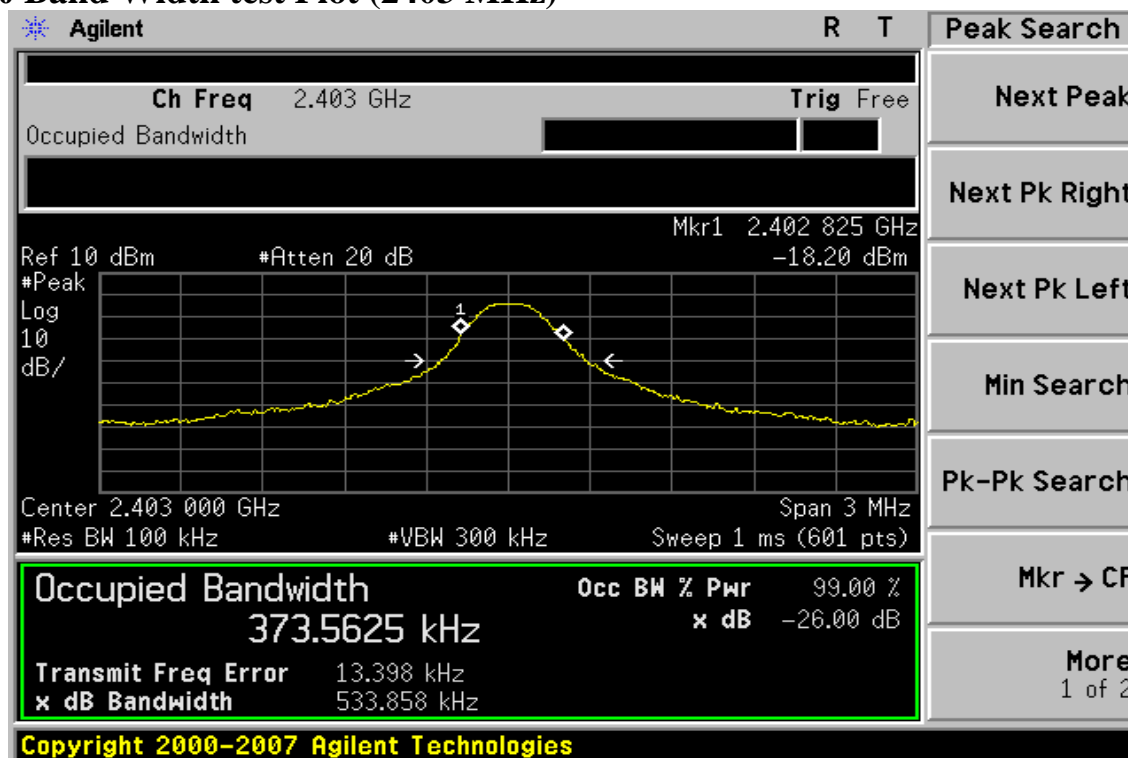
2403 Channel = 373.5625kHz

2440 Channel = 347.5050kHz

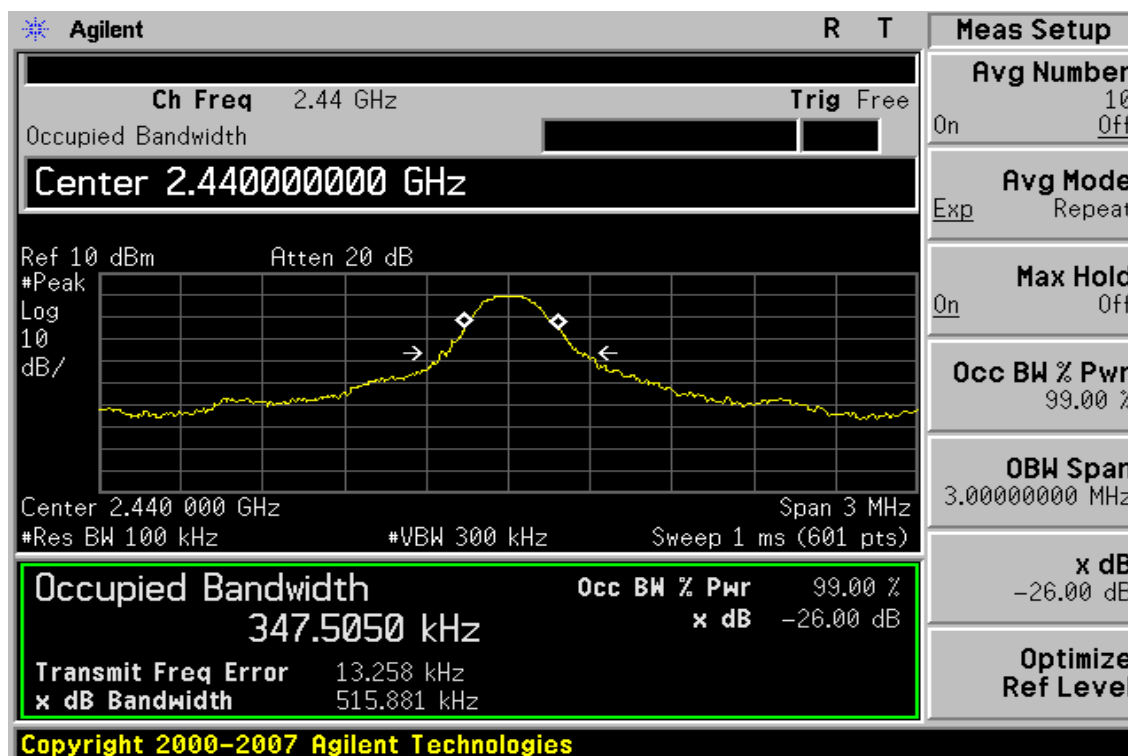
2480 Channel = 382.8069kHz

Refer to attached data chart.

99% Band Width test Plot (2403 MHz)

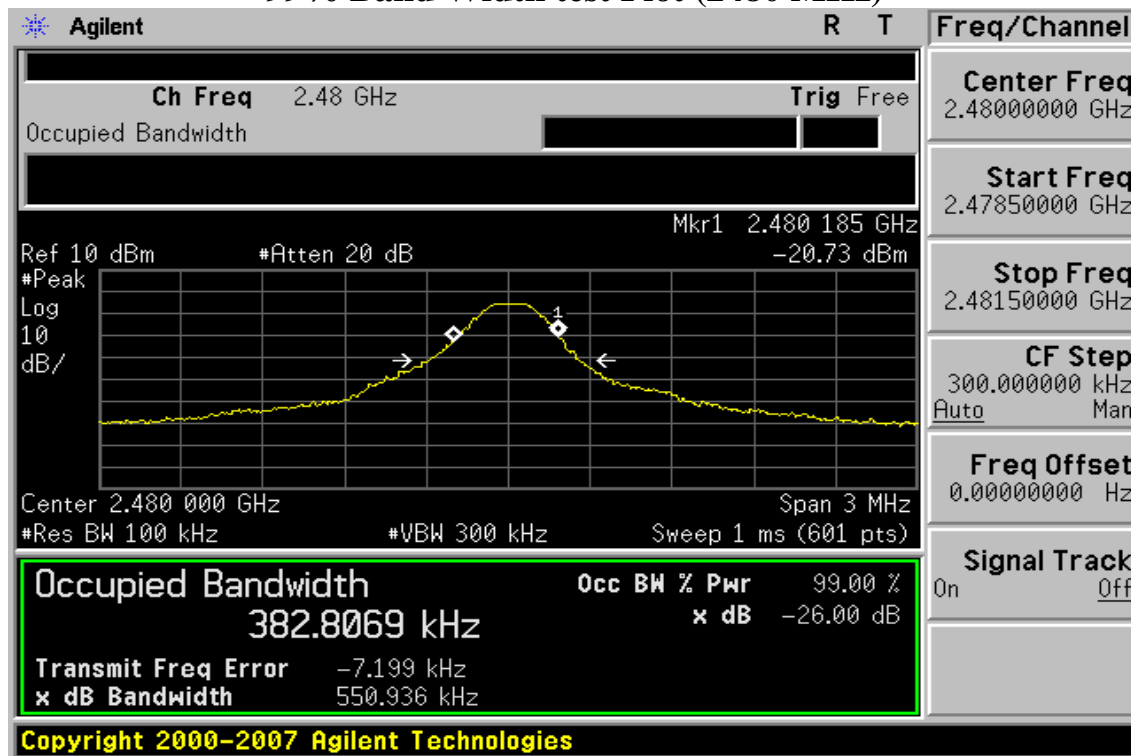


99% Band Width test Plot (2440 MHz)



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99% Band Width test Plot (2480 MHz)



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