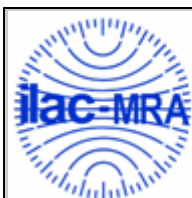


ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 15 SUBPART E REQUIREMENT
AND INDUSTRY CANADA RSS 210**

OF

Product Name: Vehicle Mount Terminal
Brand Name: Honeywell
Marketing Name: Thor VM2
Model No.: VM2WG
Model Difference: N/A
IC: 1693B-VM2W02
FCC ID: KDZVM2W02
Report No.: EH/2012/A0033
Issue Date: Nov. 30, 2012
FCC Rule Part: §15.407
IC Rule Part: RSS-210 issue 8:2010, Annex 9
Prepared for: Honeywell International Inc.,
Honeywell Scanning and Mobility
9680 Old Bailes Road, Fort Mill, SC 29707, USA
SGS Taiwan Ltd.
Electronics & Communication Laboratory
Prepared by: No.134, Wu Kung Road, New Taipei Industrial
Park, Wuku District, New Taipei City, Taiwan
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VERIFICATION OF COMPLIANCE

Applicant: Honeywell International Inc.,
Honeywell Scanning and Mobility
9680 Old Bailes Road, Fort Mill, SC 29707, USA

Product Name: Vehicle Mount Terminal

Brand Name: Honeywell

Marketing Name: Thor VM2

Model No.: VM2WG

Model Difference: N/A

IC: 1693B-VM2W02

FCC ID: KDZVM2W02

File Number: EH/2012/A0033

Date of test: Oct. 05, 2012 ~ Nov. 24, 2012

Date of EUT Received: Oct. 05, 2012

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 2009 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 15.407 and RSS-210 issue 8: 2010 Annex 9.. The test results of this report relate only to the tested sample identified in this report.

Test By:

Marcus Tseng

Date:

Nov. 30, 2012

Marcus Tseng / Engineer**Prepared By:**

Tiffany Kao

Date:

Nov. 30, 2012

Tiffany Kao / Clerk**Approved By:**

Jim Chang

Date:

Nov. 30, 2012

Jim Chang / Supervisor

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Version

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| 00 | Nov. 30, 2012 | Initial creation of document |
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1. GENERAL INFORMATION

General:

| | | |
|-------------------|---|---|
| Product Name: | Vehicle Mount Terminal | |
| Marketing Name: | Thor VM2 | |
| Brand Name: | Honeywell | |
| Model No.: | VM2WG | |
| Model Difference: | N/A | |
| Hardware Version: | N/A | |
| Software Version: | N/A | |
| Power Supply: | 10.8Vdc Li-ion battery or 100-240Vdc from AC/DC adapter | |
| | Battery: | Model No.: OVT310L1R00 Supplier: TOTEX International Limited |
| | Adapter: | Model No.:GT-81081-6015-T3, Supplier: GlobTek, Inc. |

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WLAN: 802.11 a/b/g/n

| Wi-Fi | Frequency Range | Channels | Rated Power (Avg.) / Average Rated Power(EIRP) | Modulation Technology | Type of Emission |
|-------|-------------------|----------|---|-----------------------|------------------|
| 11a | 5150-5250 | 4 | 11.31 dBm (Avg.) 15.19dBm (EIRP) | OFDM | 17M2D1D |
| | 5250-5350 | 4 | 12.65 dBm (Avg.) 16.57dBm (EIRP) | | 17M2D1D |
| | 5470-5725 | 11 | 10.27 dBm (Avg.) 15.24 dBm (EIRP) | | 17M1D1D |
| 11n | HT20 5150-5250 | 4 | Avg. Power: (MIMO Chain 0):9.24dBm (MIMO Chain 1):8.07dBm (MIMO Chain 0+1):11.70dBm EIRP: (MIMO Chain 0): 13.16dBm (MIMO Chain 1):11.99dBm (MIMO Chain 0+1):15.62dBm | OFDM | 17M8D1D |
| | HT20 5250-5350 | 4 | Avg. Power: (MIMO Chain 0):12.49 dBm (MIMO Chain 1):12.09dBm (MIMO Chain 0+1):15.30dBm EIRP: (MIMOChain 0): 17.49dBm (MIMO Chain 1): 16.01dBm (MIMO Chain 0+1): 19.22dBm | | 17M8D1D |
| | HT20 5470-5725 | 11 | Avg. Power: (MIMO Chain 0):10.08 dBm (MIMO Chain 1):10.01dBm (MIMO Chain 0+1):13.06dBm EIRP (MIMO Chain 0):15.05 dBm (MIMO Chain 1):14.98dBm (MIMO Chain 0+1):18.03 dBm | | 18M0D1D |

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|------------------|--|
| Modulation type | CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM |
| Transition Rate: | 802.11 a: 6/9/12/18/24/36/48/54 Mbps; 802.11 n_20MHz: 6.5 – 144Mbps 802.11 n_40MHz: 13.5 – 300Mbps |

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

This report applies for frequency bands 5150 MHz– 5250 MHz, 5250MHz-5350MHz and 5470 MHz– 5725 MHz.

The 5G max antenna gain is 3.88dBi for 5.2GHz and 4.85dBi for 5.5GHz which was choosing for Radiated Spurious Emission test.

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

This submittal(s) (test report) is intended for **FCC ID: KDZVM2W02** filing to comply with Section 15.407 of the FCC Part 15, Subpart E Rules and **IC: 1693B-VM2W02** filing to comply with Industry Canada RSS-210 issue 8: 2010 Annex 9. The composite system (digital device) is compliance with Subpart B is authorized under a DoC procedure.

1.2. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 2009 & DA 02 2138 published on 08, 30, 2002. Radiated testing was performed at an antenna to EUT distance 3 meters.

Tested in accordance with FCC Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices, and Emissions Testing of Transmitters with Multiple Output in the same Band were employed to conduct the mandatory test items for the compliance with FCC 47CFR 15.407 requirements.

1.3. Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan. which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2009. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-4.

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

1.4. Special Accessories

Not available for this EUT intended for grant.

1.5. Equipment Modifications

Not available for this EUT intended for grant.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

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

2.2. EUT Exercise

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

2.3. Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7.3.1 and 13 of ANSI C63.4-2009, conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

The EUT is placed on a 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 and Subclause 8.3.1.2 of ANSI C63.4-2009.

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2.4. Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration

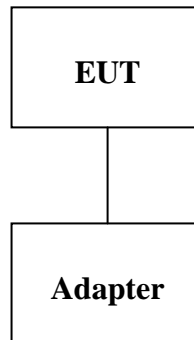


Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|--------------------|-----------|----------------|------------|------------|------------|
| 1. | WLAN Test Software | SCU | v3.03.08 | N/A | N/A | N/A |

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3. SUMMARY OF TEST RESULT

| FCC and IC Rules | Description Of Test | Result |
|---|--|-----------|
| §15.207 RSS-Gen §7.2.4 | AC Power Line Conducted Emission | Compliant |
| §15.407(a) RSS 210 A9.2 RSS-Gen §4.6.3 | 26 dB and 99% Emission Bandwidth | Compliant |
| §15.407(a) | Peak Output Power Measurement | Compliant |
| RSS 210 A9.2(1)(2)(3) | Average Output Power Measurement(EIRP) | Compliant |
| §15.407(a) RSS 210 A9.2(1)(2)(3) | Peak Power Spectral Density Measurement | Compliant |
| 15.407(a)(6) | Peak Excursion Measurement | Compliant |
| §15.407(b) RSS 210 A9.2(1)(2)(3) | Undesirable Emission – Conducted Measurement | Compliant |
| §15.407(b) RSS 210 A9.3(1)(2)(3) | Undesirable Emission – Radiated Measurement | Compliant |
| §15.407(c) RSS 210 A9.4(4) | Transmission in case of Absence of Information | Compliant |
| §15.407(g) RSS 210 A9.5(5) | Frequency Stability | Compliant |
| §15.407(a) | Antenna Requirement | Compliant |
| §15.407(d) RSS 210 A9.2(3) RSS 210 A9.3 | TPC and DFS Measurement | Compliant |
| | Maximum Permissible Exposure | Compliant |

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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 mode is programmed. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing.

a mode:

5150MHz-5250MHz: Channel lowest (5180MHz), Mid (5220MHz) and Highest (5240MHz).

5250MHz-5350MHz: Channel lowest (5260MHz), Mid (5300MHz) and Highest (5320MHz).

5470MHz-5725MHz: Channel lowest (5500MHz), Mid (5580MHz) and Highest (5700MHz) and with 6Mbps data rate are chosen as the test configuration carrying out the all applicable testing.

n HT 20 mode :

5150MHz-5250MHz: Channel lowest (5180MHz), Mid(5220MHz) and Highest(5240MHz).

5250MHz-5350MHz: Channel lowest (5260MHz), Mid(5300MHz) and Highest(5320MHz).

5470MHz-5725MHz: Channel lowest (5500MHz), Mid (52580MHz) and Highest (5700MHz) with 6.5Mbps data rate are chosen as the test configuration carrying out the all applicable testing.

n HT 40 mode :

5150MHz-5250MHz: Channel lowest (5190MHz) and Highest (5230MHz).

5250MHz-5350MHz: Channel lowest (5270MHz) and Highest (5310MHz).

5470MHz-5725MHz: Channel lowest (5510MHz), Mid (5590MHz) and Highest (5670MHz) with 13.5Mbps data rate are chosen as the test configuration carrying out the all applicable testing.

Pre-scanned was done on external antenna: WTS 2450 and antenna R380500314, and antenna R380500314 results higher emission at 5GHz. Therefore, the completed set of measurement was done on antenna: R380500314 to presented on this test report.

The field strength of spurious radiation emission was measured as EUT stand-up position(H mode), EUT with H position is selected to be the test configuration for test items relevant to radiated emission after pre-scanned investigation.

For radiation spurious emission test relevant n_HT20&HT40, MIMO mode that generates the higher emission is chosen to be tested in comparison with transmission at SISO mode.

Remark: While conducting average power measurement, duty cycle of each mode (a/n_ht20/n_ht40) shall be greater than 98%. All duty cycle is pre-scanned, but verified to be greater than 98%, where a = 98%, n_HT20&HT40= 98% (SISO), and n_ht_20&n_ht_40 = 98%,(MIMO) where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

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5. MEASUREMENT UNCERTAINTY FOR FIELD STRENGTH OF SPURIOUS RADIATION

| | |
|--|------------------------|
| Measurement uncertainty (Polarization : Vertical) | 30MHz - 180MHz: 3.37dB |
| | 180MHz -417MHz: 3.19dB |
| | 0.417GHz-1GHz: 3.19dB |
| | 1GHz - 18GHz: 4.04dB |
| | 18GHz - 40GHz: 4.04dB |

| | |
|--|------------------------|
| Measurement uncertainty (Polarization : Horizontal) | 30MHz - 167MHz: 4.22dB |
| | 167MHz -500MHz: 3.44dB |
| | 0.5GHz-1GHz: 3.39dB |
| | 1GHz - 18GHz: 4.08dB |
| | 18GHz - 40GHz: 4.08dB |

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6. AC POWER LINE CONDUCTED EMISSION TEST

6.1. Standard Applicable

According to §15.207 and RSS-Gen §7.2.4, frequency range within 150 KHz to 30 MHz 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. | | |

6.2. EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2009.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz power source.

6.3. Measurement Procedure

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

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6.4. Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|------------|-------------------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESCI7 | 100759 | 05/20/2011 | 05/19/2013 |
| EMI Receiver | R&S | ESCS 30 | 828985/004 | 09/23/2012 | 09/22/2013 |
| LISN | Rolf-Heine | NNB-2/16Z | 99012 | 03/23/2012 | 03/22/2013 |
| LISN | FCC | FCC-LISN-50/250-25-2-01 | 04034 | 03/23/2012 | 03/22/2013 |
| Coaxial Cables | N/A | WK CE Cable | N/A | 01/05/2012 | 01/04/2013 |

6.5. 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.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

| | | | | | |
|-----------------|----------------|-----------|------|------------|---------------|
| Operation Mode: | Bluetooth Mode | | | Test Date: | Nov. 24, 2012 |
| Temperature: | 23 | Humidity: | 57 % | Test By: | Marcus |



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | | 0.1500 | 49.33 | 0.25 | 49.58 | 66.00 | -16.42 | QP | |
| 2 | * | 0.1852 | 47.91 | 0.23 | 48.14 | 64.25 | -16.11 | QP | |
| 3 | | 1.5195 | 28.32 | 0.26 | 28.58 | 56.00 | -27.42 | QP | |
| 4 | | 7.4727 | 31.07 | 0.38 | 31.45 | 60.00 | -28.55 | QP | |
| 5 | | 10.9805 | 41.44 | 0.47 | 41.91 | 60.00 | -18.09 | QP | |
| 6 | | 21.7734 | 39.61 | 0.94 | 40.55 | 60.00 | -19.45 | QP | |

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| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | * | 0.1500 | 49.53 | 0.35 | 49.88 | 66.00 | -16.12 | QP | |
| 2 | | 0.2477 | 43.94 | 0.32 | 44.26 | 61.83 | -17.57 | QP | |
| 3 | | 0.5352 | 33.86 | 0.33 | 34.19 | 56.00 | -21.81 | QP | |
| 4 | | 1.4101 | 28.30 | 0.33 | 28.63 | 56.00 | -27.37 | QP | |
| 5 | | 10.7852 | 41.07 | 0.48 | 41.55 | 60.00 | -18.45 | QP | |
| 6 | | 22.3125 | 40.97 | 0.82 | 41.79 | 60.00 | -18.21 | QP | |

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7. 26dB and 99%EMISSION BANDWIDTH MEASUREMENT

7.1 Standard Applicable

According to §15.407(a). No Limit required.

According to RSS 210 A9.2(1), No Limit required

RSS-Gen §4.4.1, the transmitter shall be operated at its maximum carrier power measured under normal test conditions. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual.

The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded.

7.2 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 1% of emission BW RBW= 200kHz for a mode, RBW=200kHz for n_HT20, and RBW=510kHz for n_HT40, VBW =620KHz for a, n_HT20, and VBW = 1.5MHz for n_HT40, Span= 50MHz for a, n_HT20 ,and Span= 60MHz for n_HT40 Sweep=auto
4. Set Detector = Peak, and Trace Mode = max hold
5. set Marker at the frequency where -26dB (upper and lower) frequency.
6. Repeat above procedures until all frequency (low, middle, and high) was complete.

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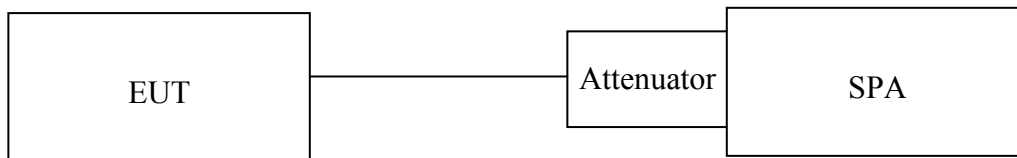
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7.3 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|---------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Power Sensor | Anritsu | ML2495A | 1005007 | 02/08/2012 | 02/07/2014 |
| Power Meter | Anritsu | MA2411B | 917032 | 02/08/2012 | 02/07/2014 |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 04/15/2011 | 04/14/2013 |
| Spectrum Analyzer | Agilent | E4440A | MY45304525 | 03/17/2012 | 03/16/2014 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 02/28/2012 | 02/27/2013 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA | N/A | 01/05/2012 | 01/04/2013 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 002 | 02/28/2012 | 02/27/2013 |
| Splitter | Agilent | 11636B | N/A | 02/28/2012 | 02/27/2013 |

7.4 Test Set-up:

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7.5 Measurement Result

26dB Bandwidth

802.11a, 5150~5250 MHz

| Frequency (MHz) | 26dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|--------------------------|-----------------|
| 5180 | 21.18 | 13.26 |
| 5220 | 21.23 | 13.27 |
| 5240 | 21.54 | 13.33 |

802.11a, 5250~5350 MHz

| Frequency (MHz) | 26dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|--------------------------|-----------------|
| 5260 | 21.48 | 13.32 |
| 5300 | 21.25 | 13.27 |
| 5320 | 21.58 | 13.34 |

802.11a, 5470~5725 MHz

| Frequency (MHz) | 26dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|--------------------------|-----------------|
| 5500 | 21.99 | 13.42 |
| 5580 | 21.15 | 13.25 |
| 5700 | 21.96 | 13.42 |

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802.11n HT20, 5150~5250 MHz

| Frequency (MHz) | 26dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|--------------------------|-----------------|
| 5180 | 25.15 | 14.01 |
| 5220 | 20.01 | 13.01 |
| 5240 | 25.06 | 13.99 |

802.11n HT20, 5250~5350 MHz

| Frequency (MHz) | 26dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|--------------------------|-----------------|
| 5260 | 25.12 | 14.00 |
| 5300 | 25.08 | 13.99 |
| 5320 | 25.15 | 14.00 |

802.11n HT20, 5470~5725 MHz

| Frequency (MHz) | 26dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|--------------------------|-----------------|
| 5500 | 19.95 | 13.00 |
| 5580 | 22.61 | 13.54 |
| 5700 | 25.12 | 14.00 |

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802.11n HT40, 5150~5250 MHz

| Frequency (MHz) | 26dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|--------------------------|-----------------|
| 5190 | 38.36 | 15.84 |
| 5230 | 41.68 | 16.20 |

802.11n HT40, 5250~5350 MHz

| Frequency (MHz) | 26dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|--------------------------|-----------------|
| 5270 | 41.92 | 16.22 |
| 5310 | 41.95 | 16.23 |

802.11n HT40, 5470~5725 MHz

| Frequency (MHz) | 26dB Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|--------------------------|-----------------|
| 5510 | 41.90 | 16.22 |
| 5590 | 41.88 | 16.22 |
| 5670 | 44.57 | 16.49 |

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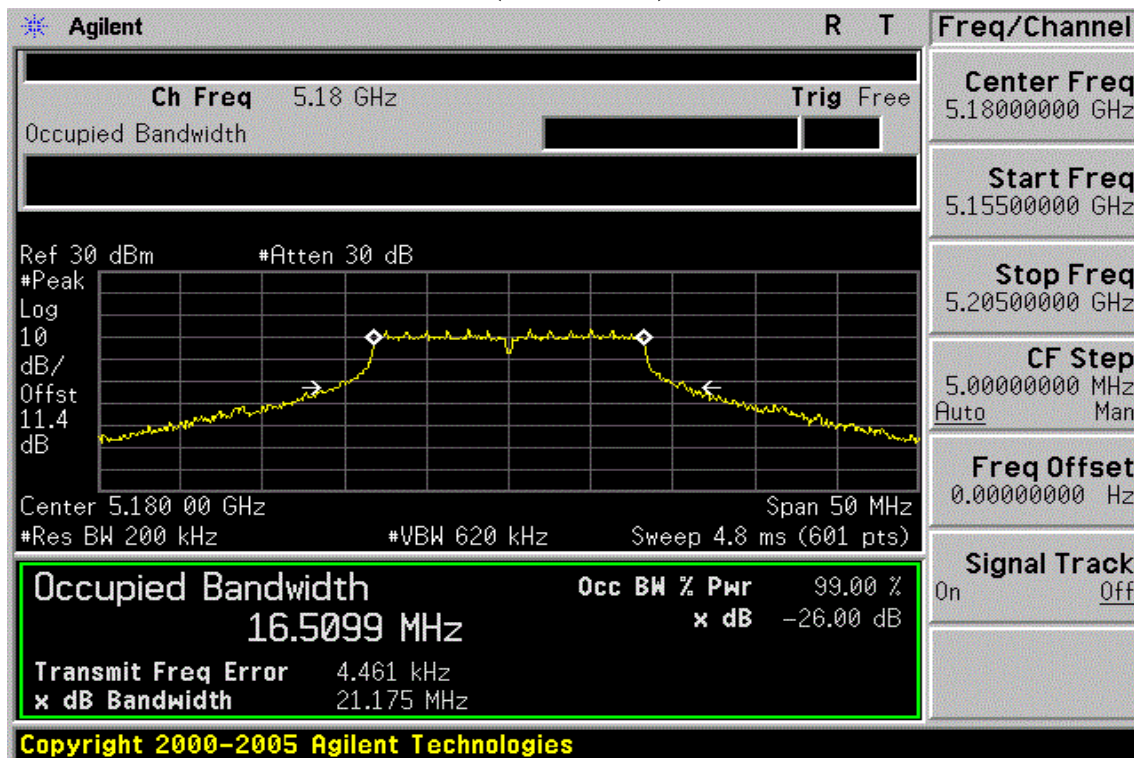
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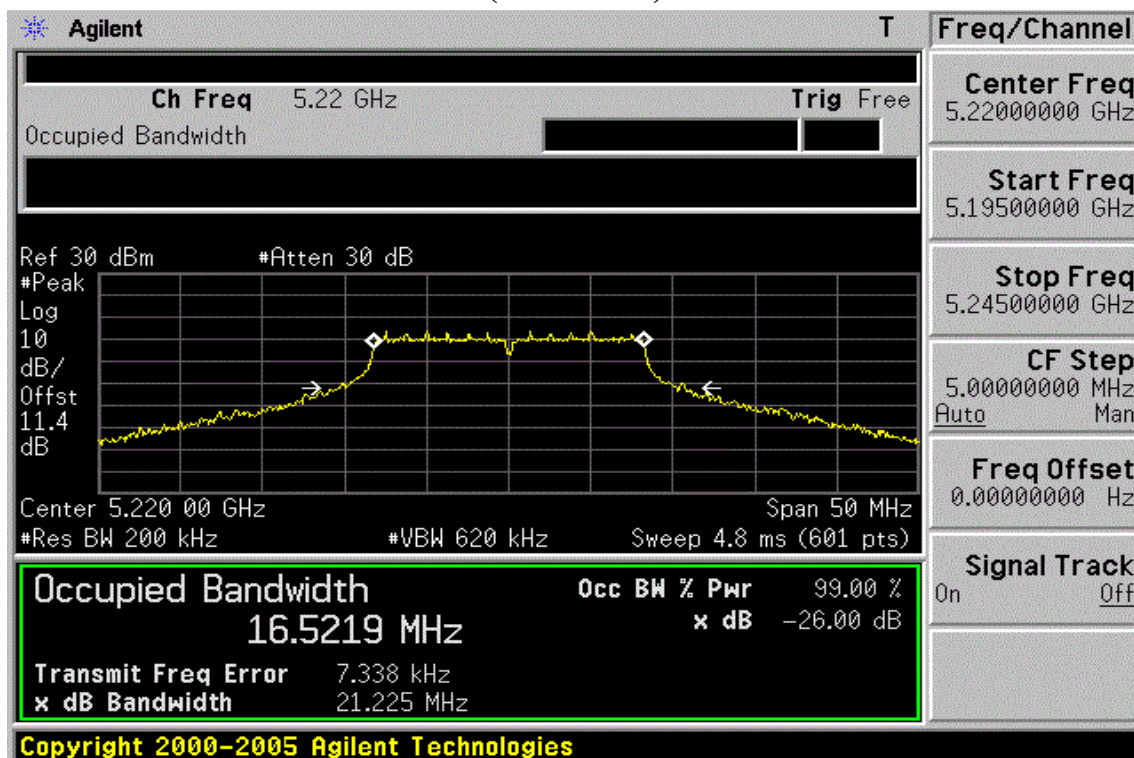
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802.11a, 5150~5250 MHz

26dB Band Width Test Data CH-Low (5180MHz)



26dB Band Width Test Data CH-Mid (5220MHz)



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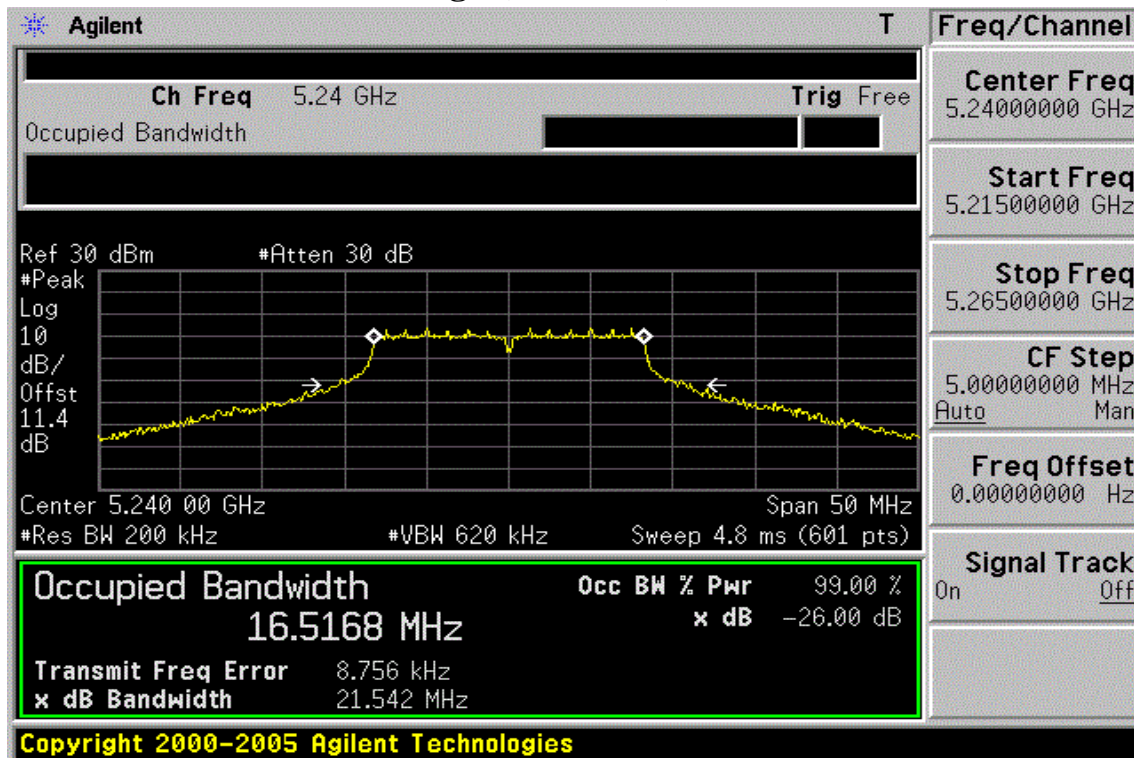
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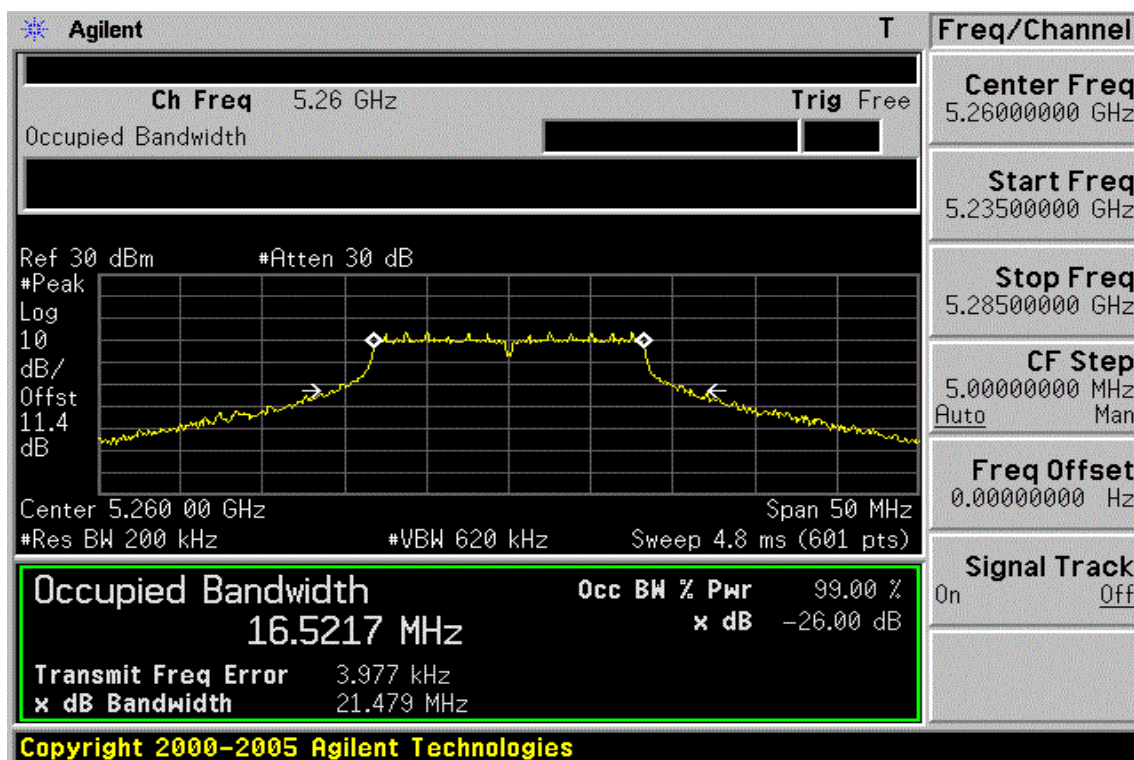
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26dB Band Width Test Data CH-High (5240MHz)



802.11a, 5250~5350 MHz

26dB Band Width Test Data CH-Low (5260MHz)



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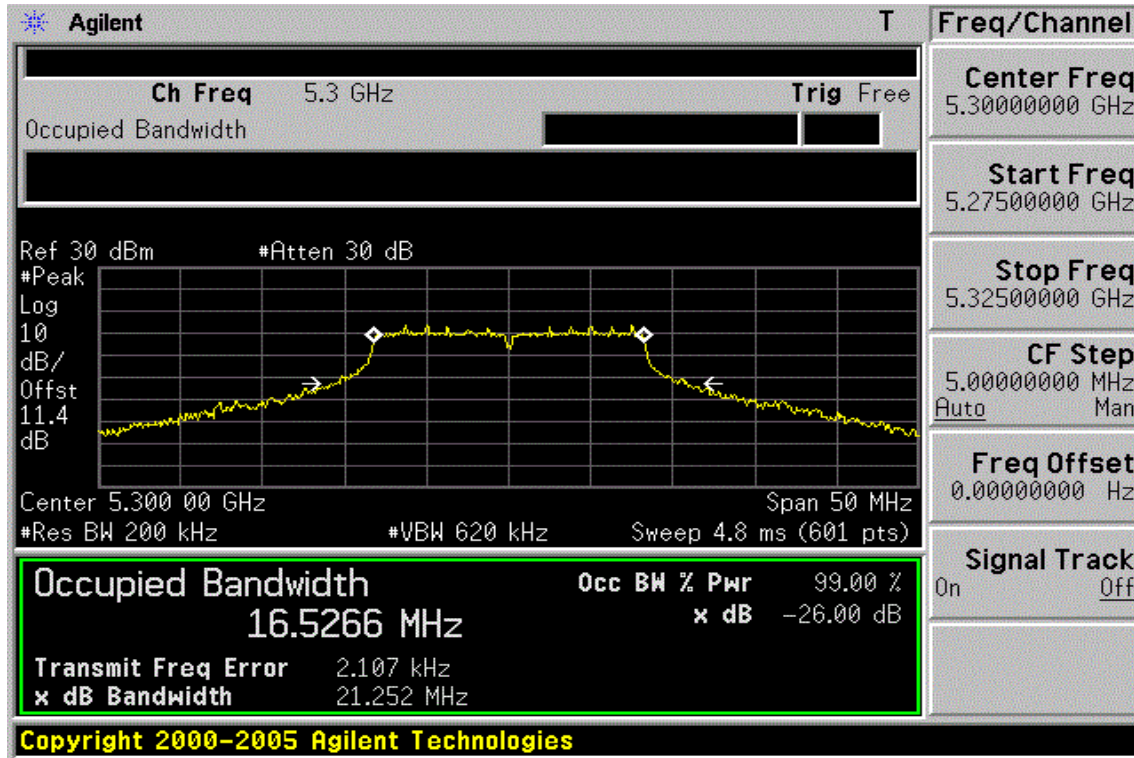
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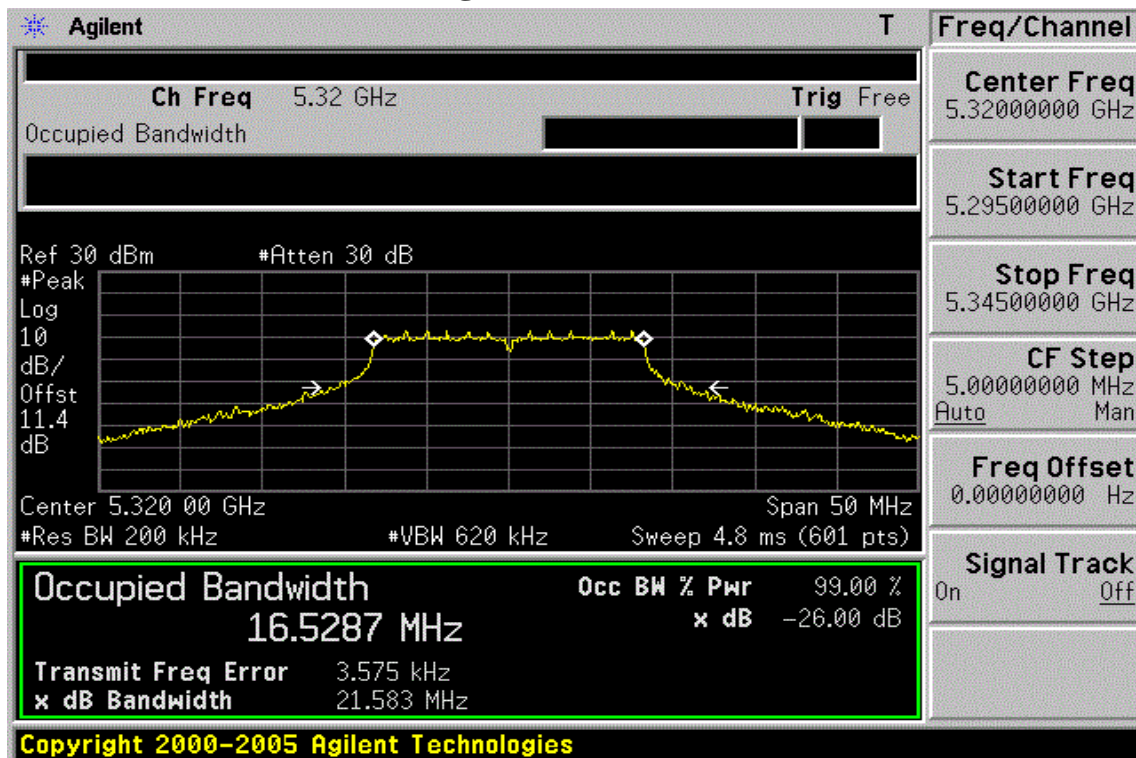
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26dB Band Width Test Data CH-Mid (5300MHz)



26dB Band Width Test Data CH-High (5320MHz)



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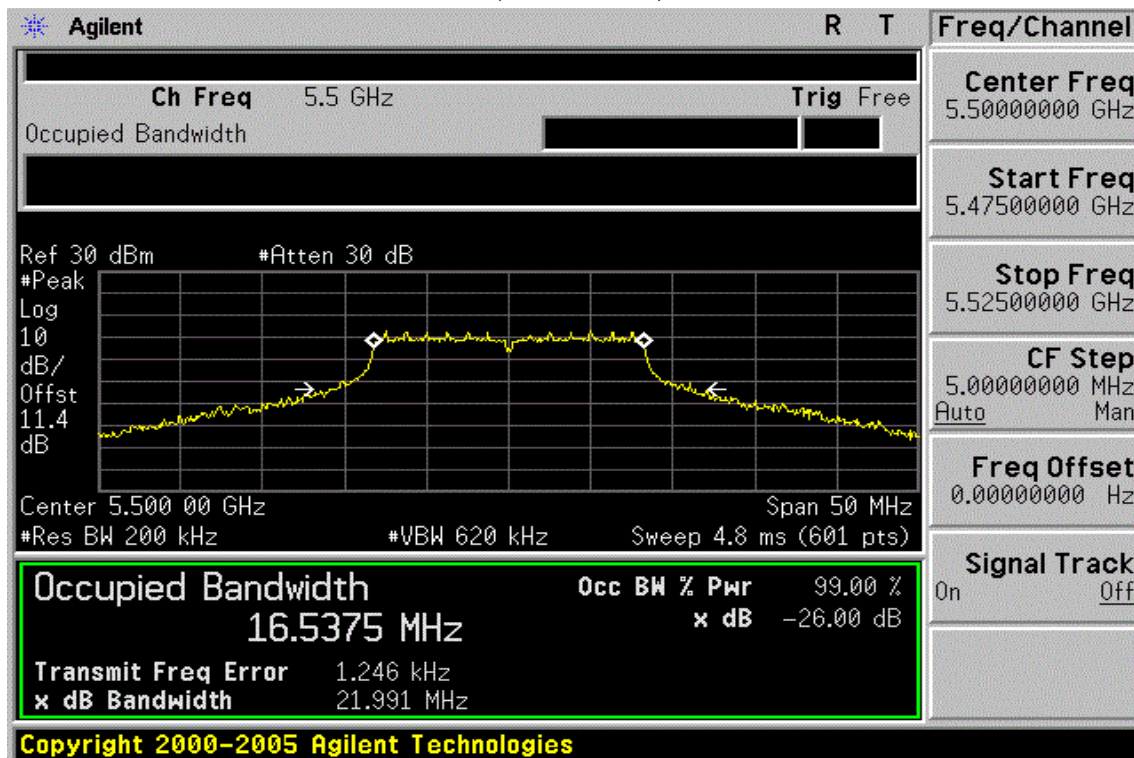
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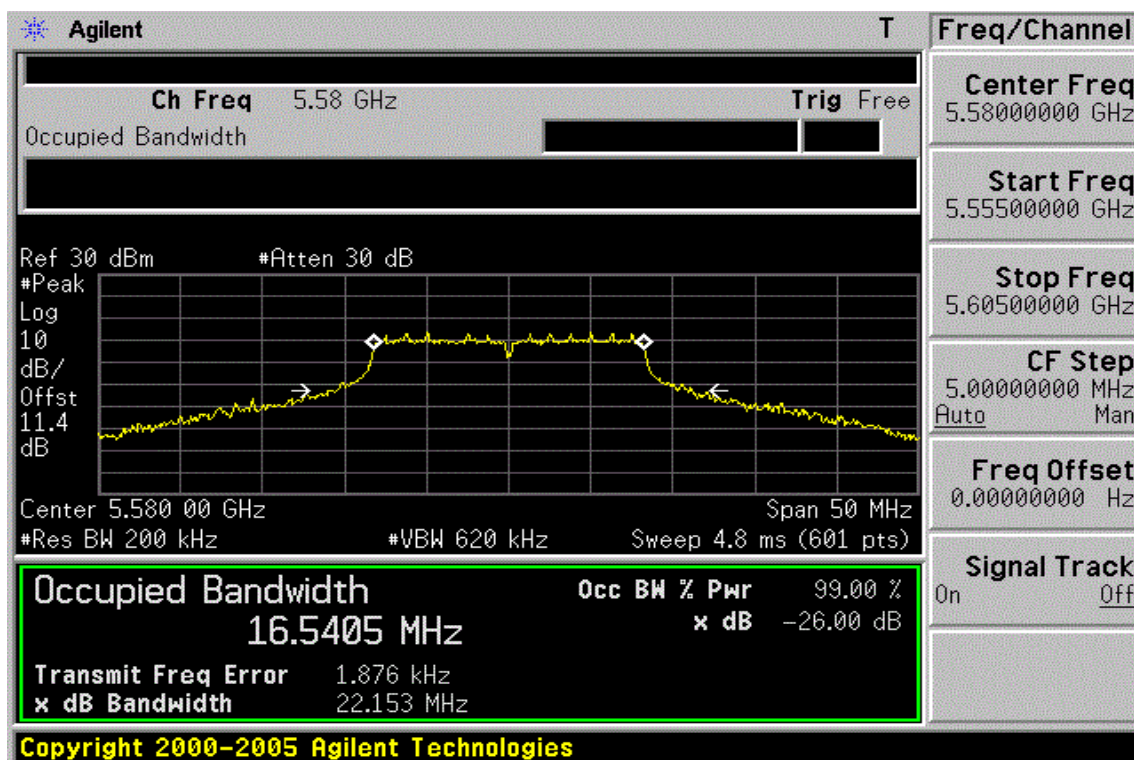
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802.11a, 5470~5725 MHz

26dB Band Width Test Data CH-Low (5500MHz)



26dB Band Width Test Data CH-Mid (5580MHz)



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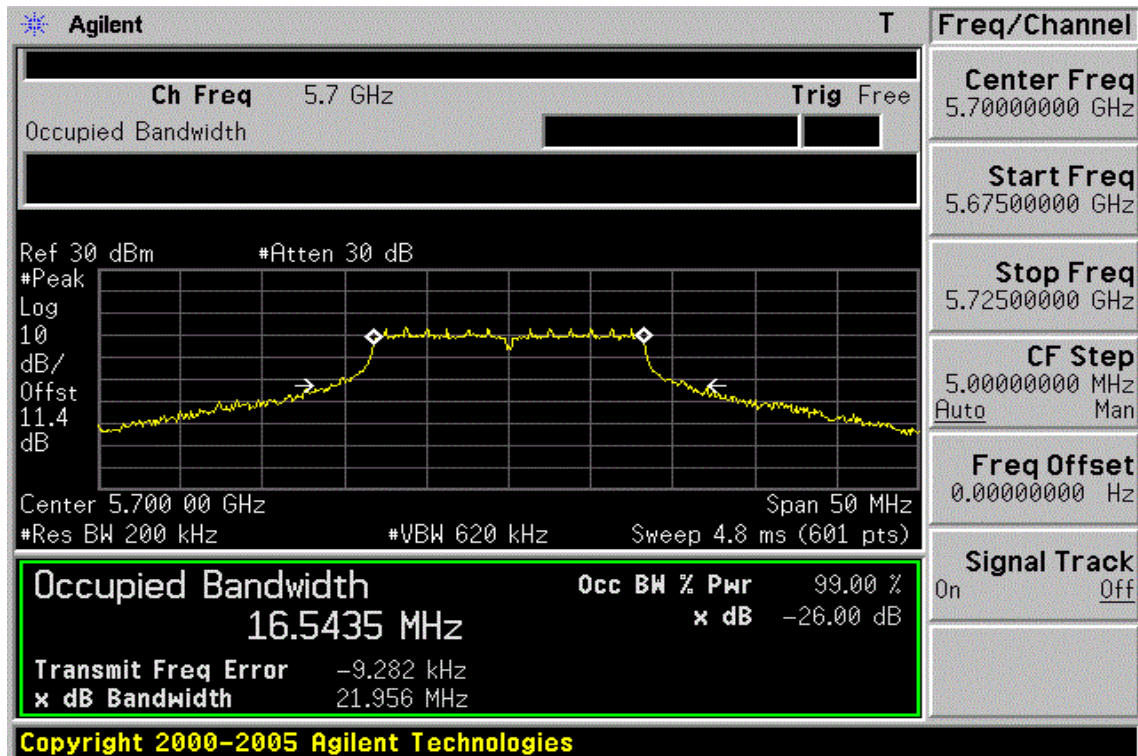
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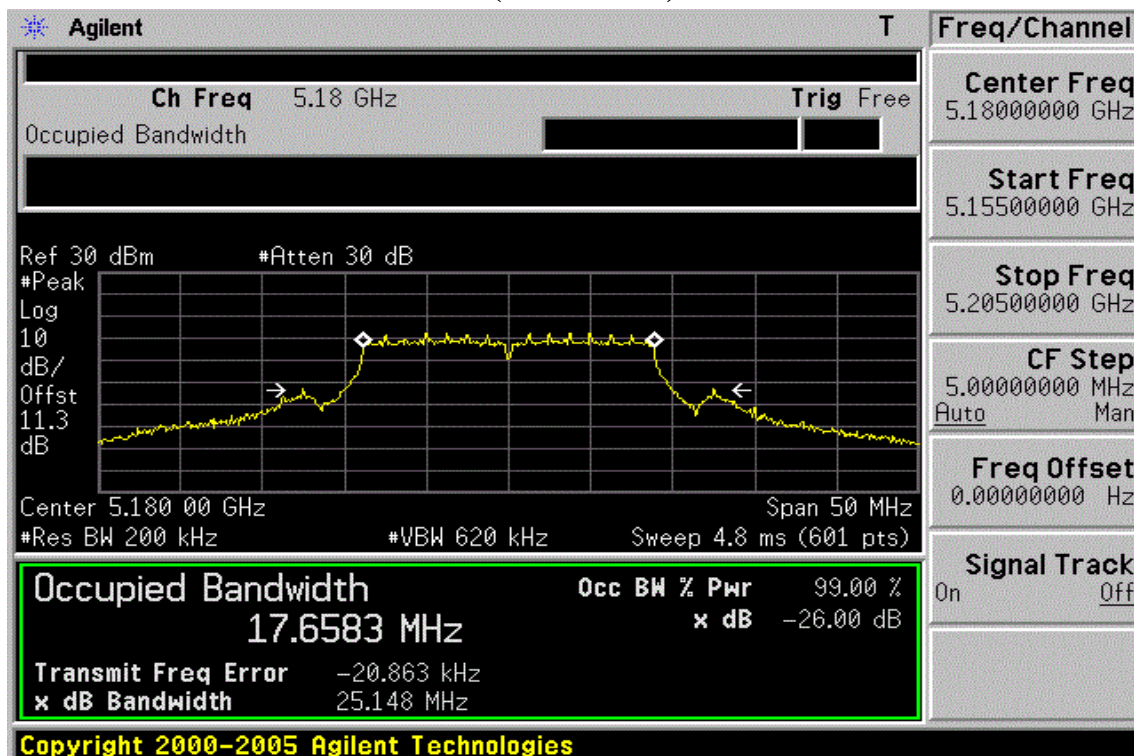
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26dB Band Width Test Data CH-High (5700MHz)



802.11n HT20, 5150~5250 MHz

26dB Band Width Test Data CH-Low (5180 MHz)



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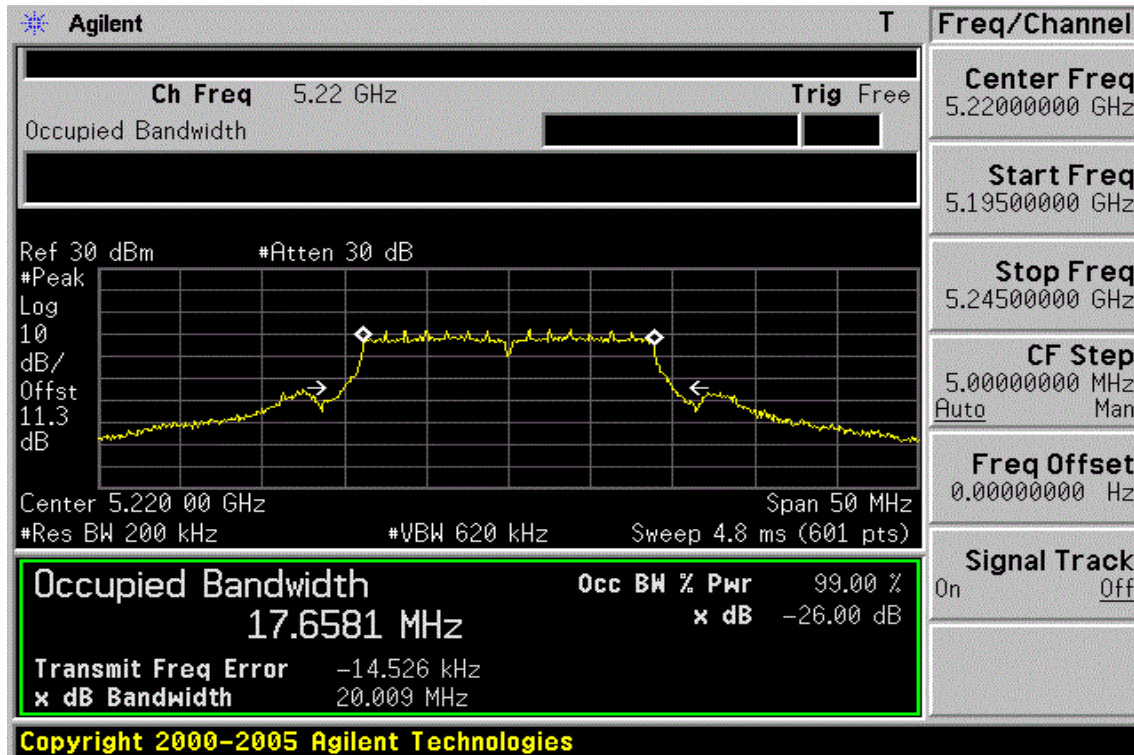
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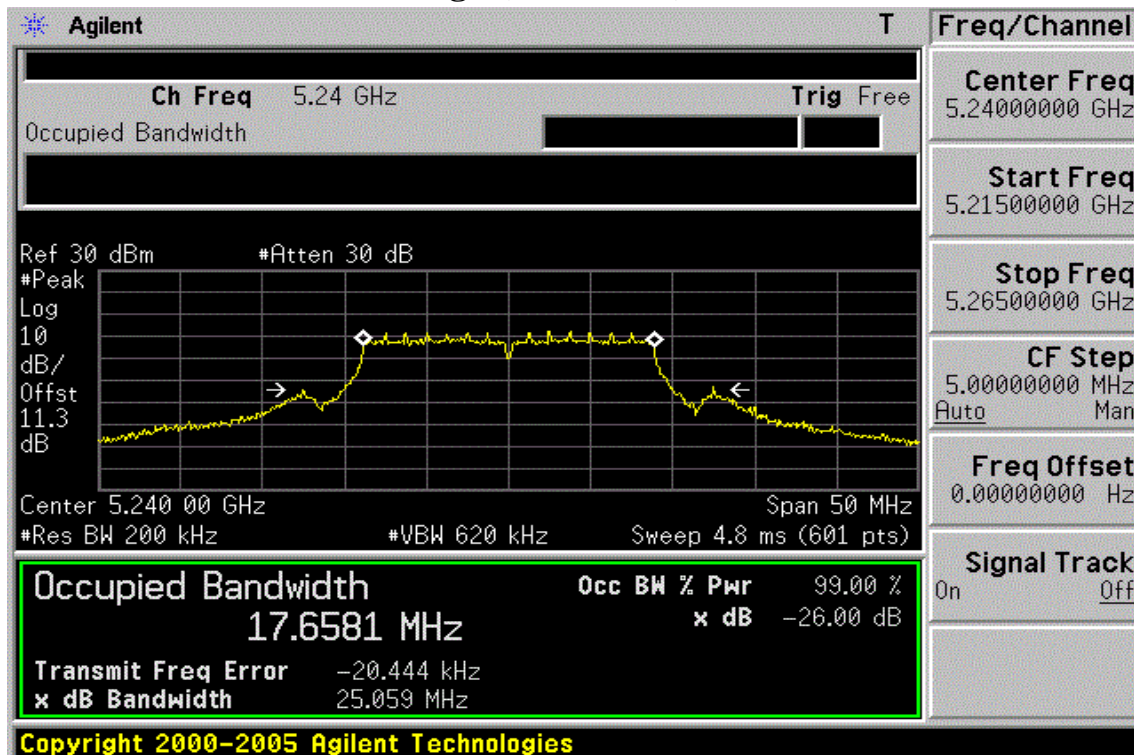
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26dB Band Width Test Data CH-Mid (5220 MHz)



26dB Band Width Test Data CH-High (5240 MHz)



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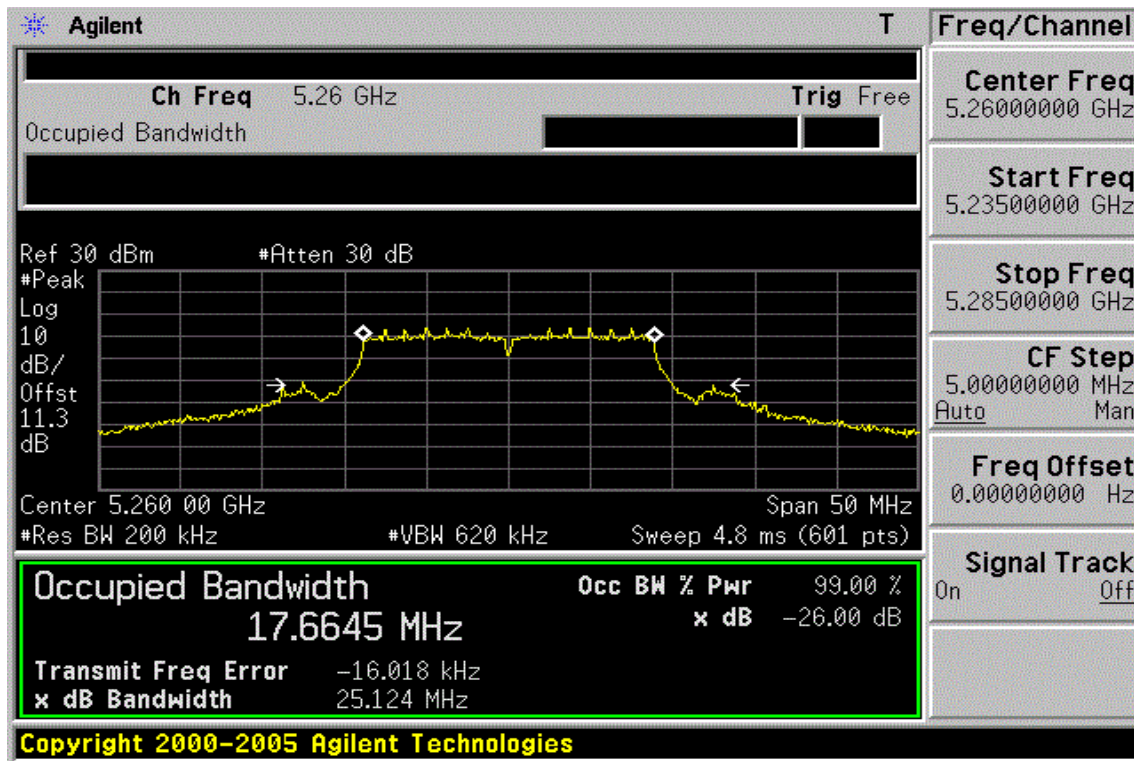
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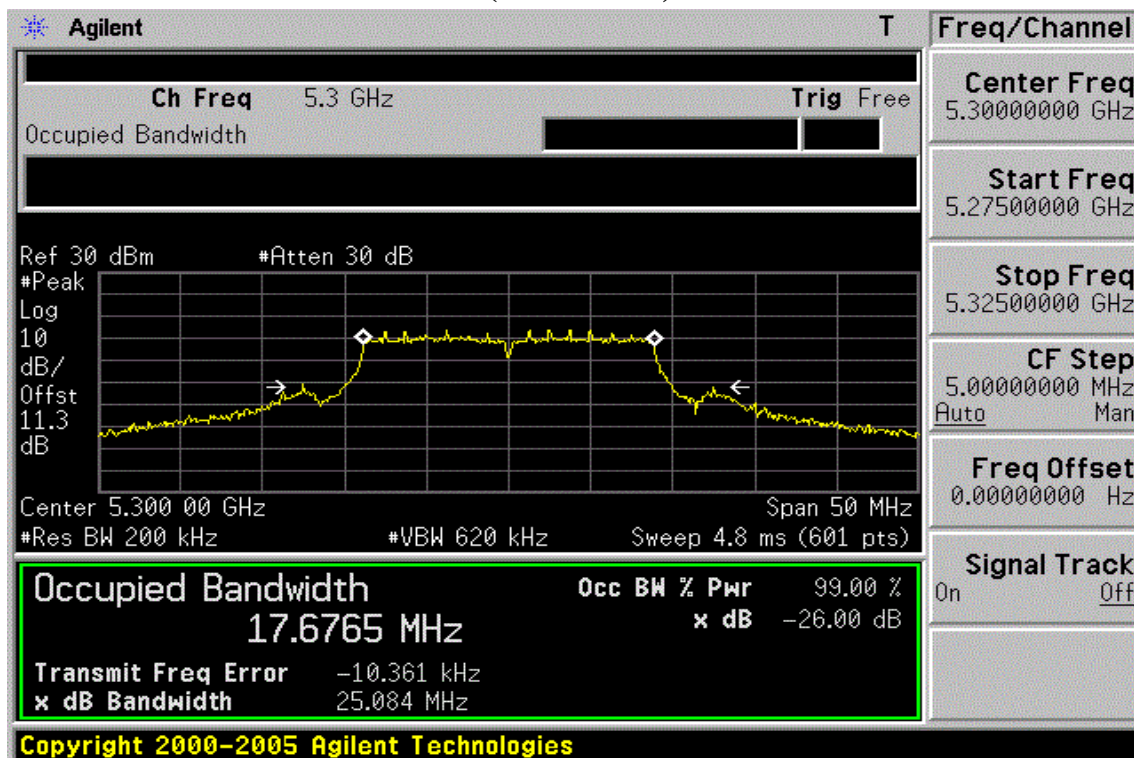
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802.11n HT20, 5250~5350 MHz

26dB Band Width Test Data CH-Low (5260 MHz)



26dB Band Width Test Data CH-Mid (5300 MHz)



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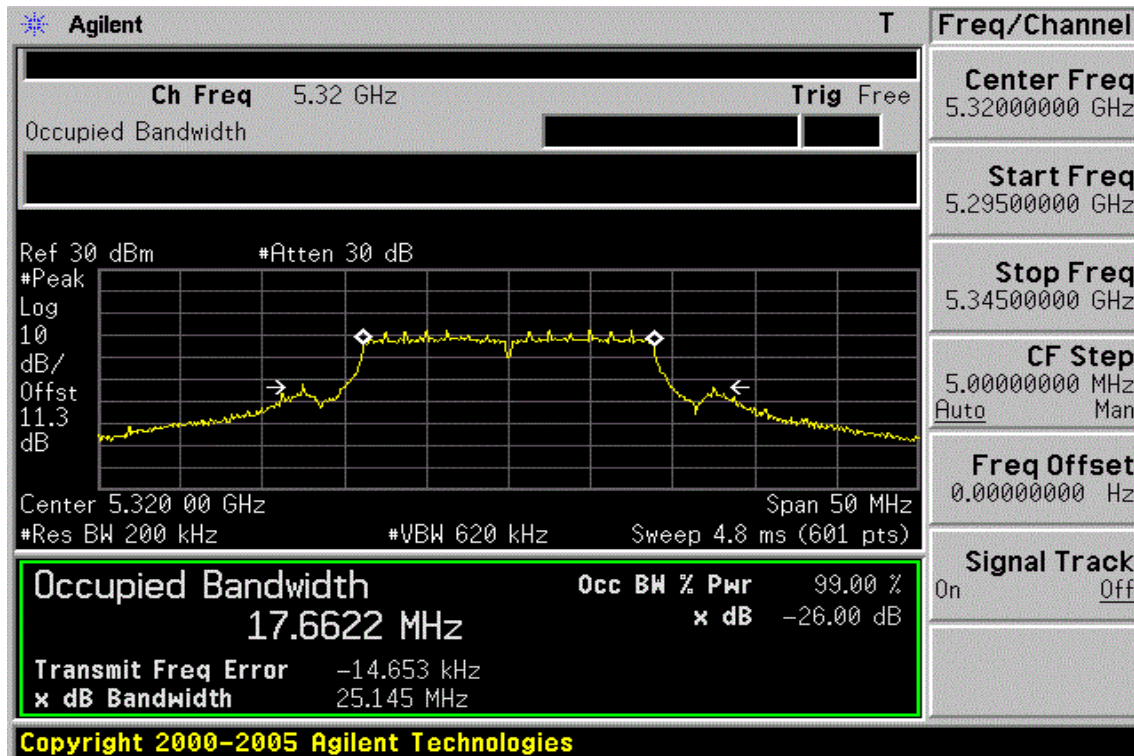
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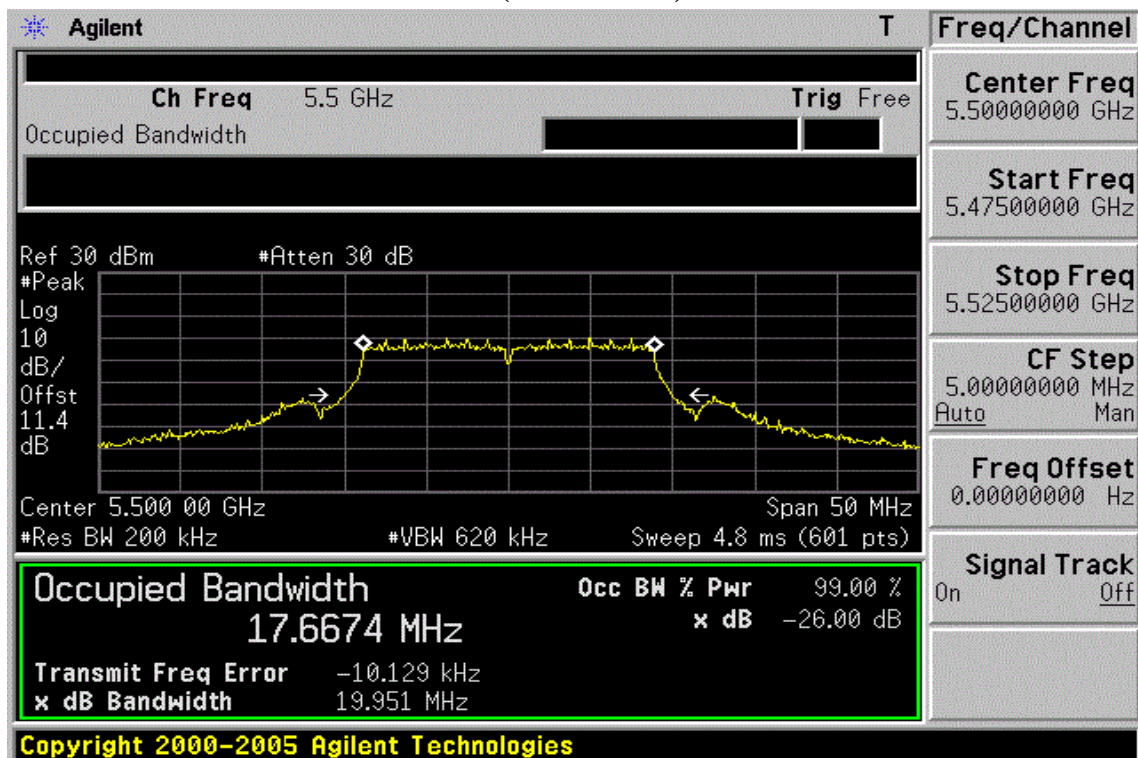
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26dB Band Width Test Data CH-High (5320 MHz)



802.11n HT20, 5470~5725 MHz

26dB Band Width Test Data CH-Low (5500 MHz)



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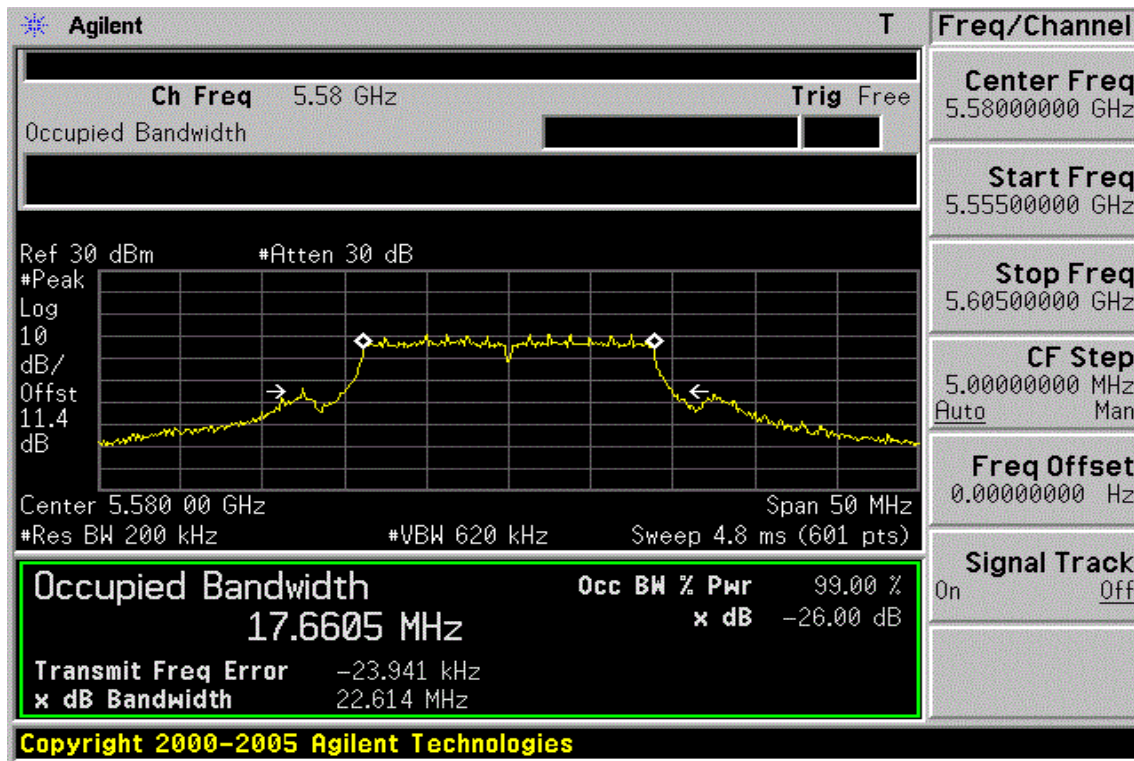
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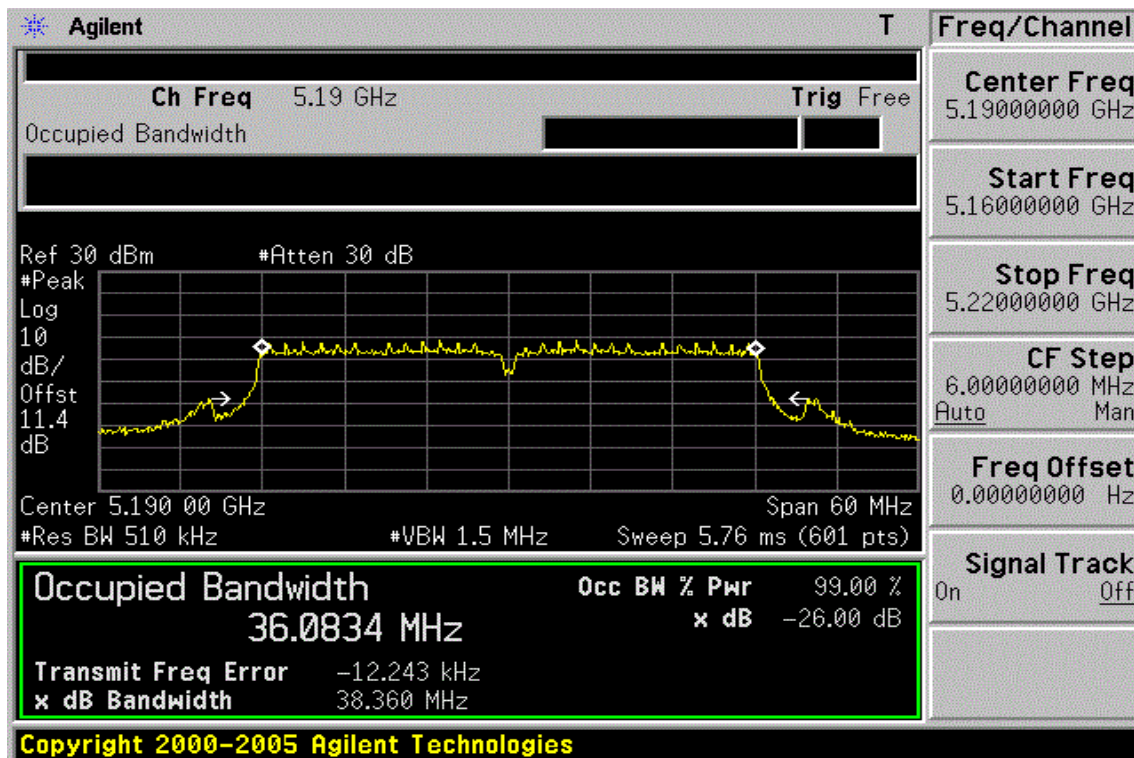
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26dB Band Width Test Data CH-Mid (5580 MHz)



26dB Band Width Test Data CH-High (5700 MHz)



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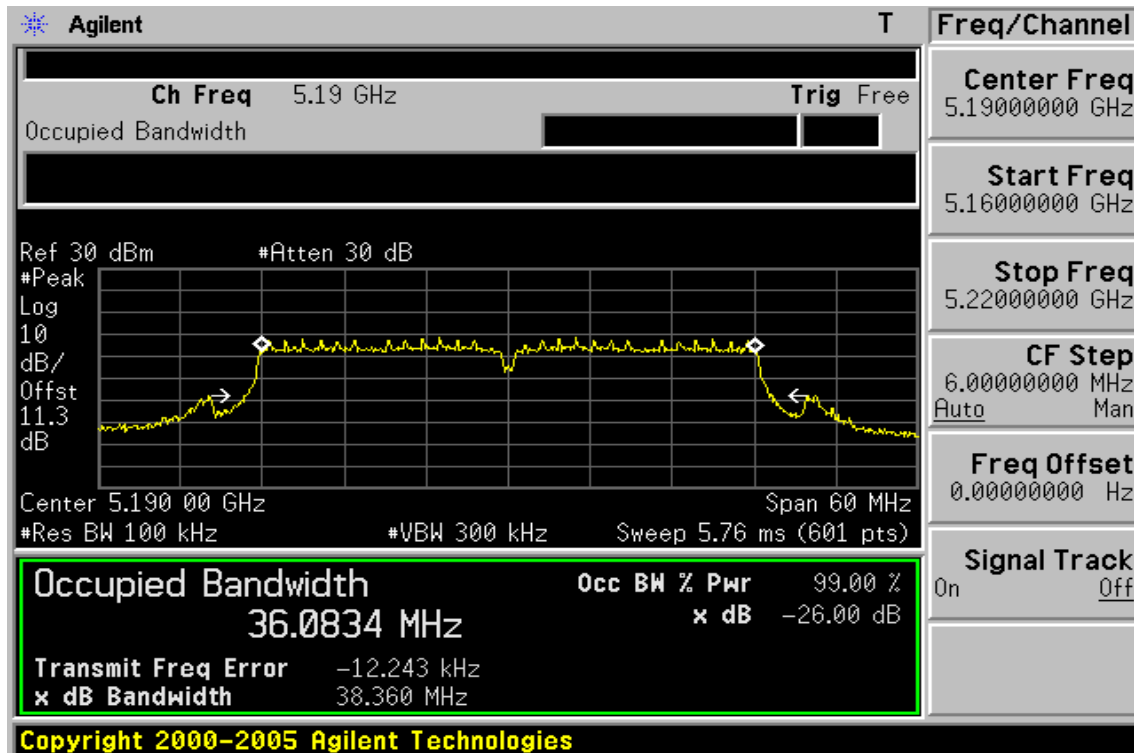
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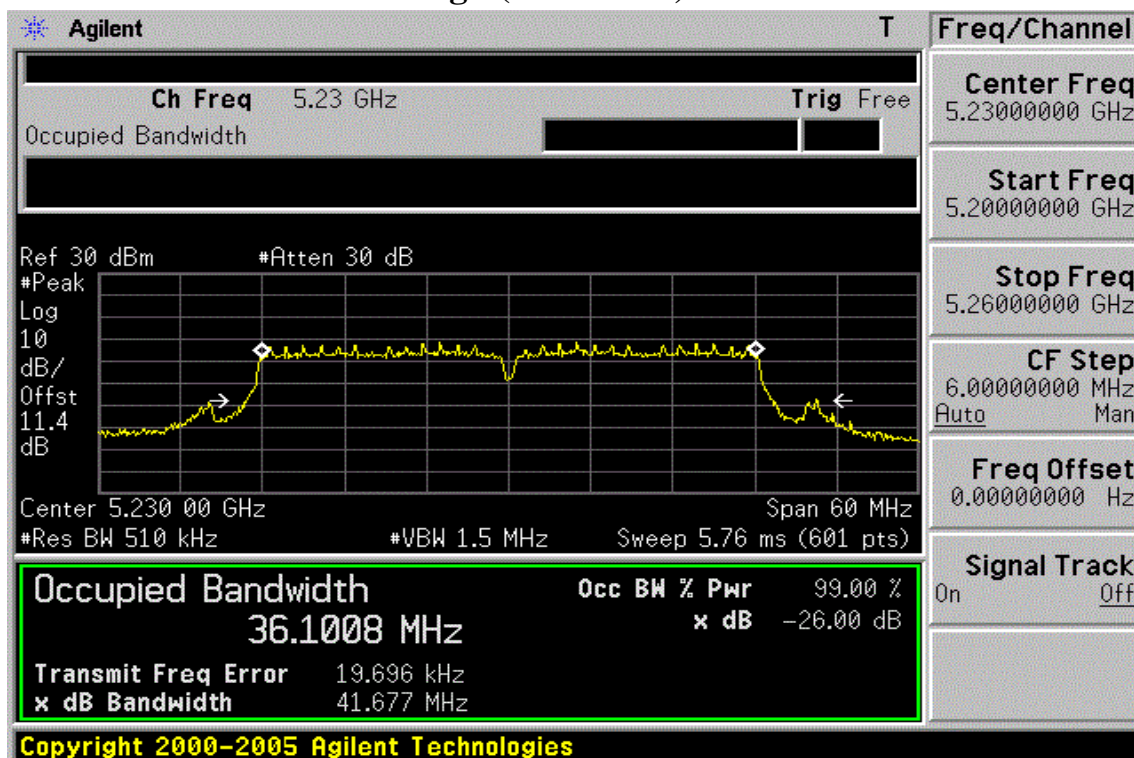
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802.11n HT40, 5150~5250 MHz

26dB Band Width Test Data CH-Low (5190 MHz)



26dB Band Width Test Data CH-High (5230 MHz)



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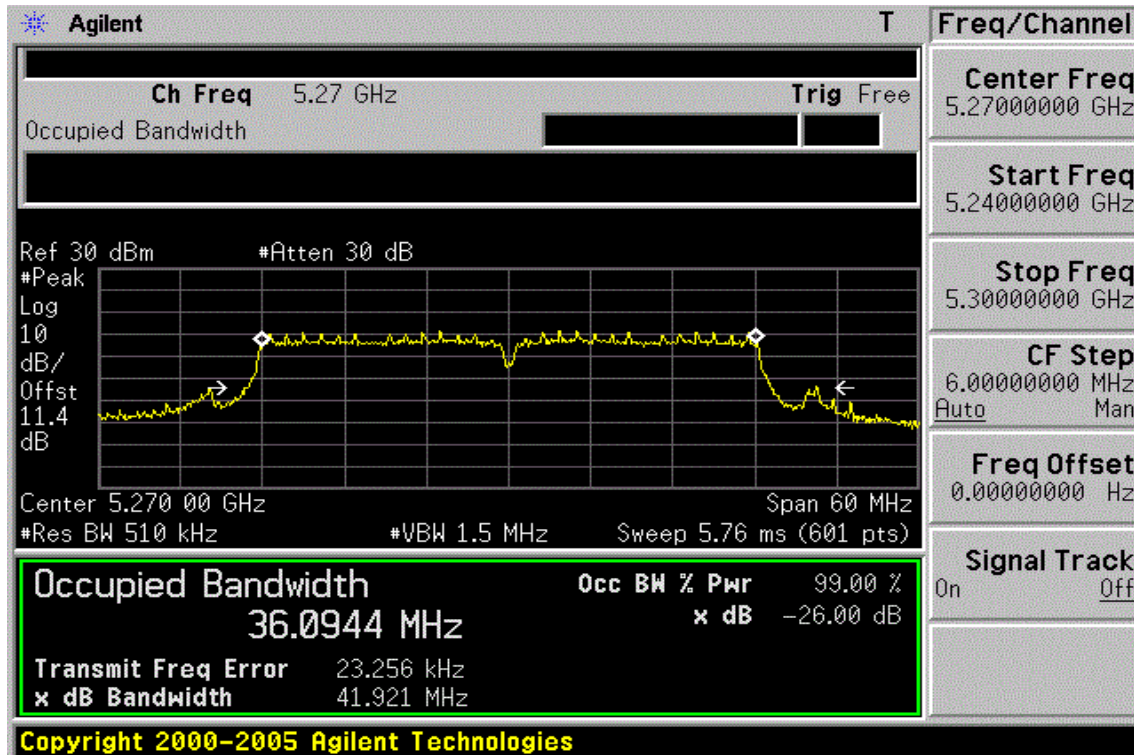
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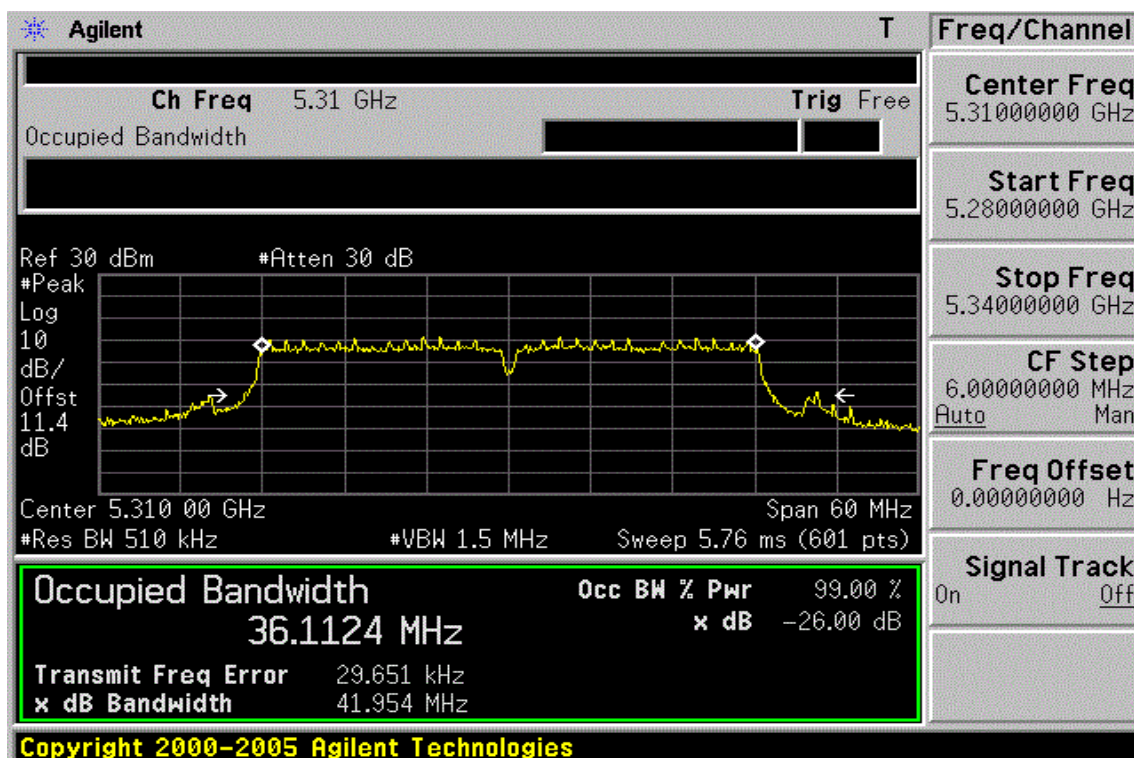
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802.11n HT40, 5250~5350 MHz

26dB Band Width Test Data CH-Low (5270 MHz)



26dB Band Width Test Data CH-High (5310MHz)



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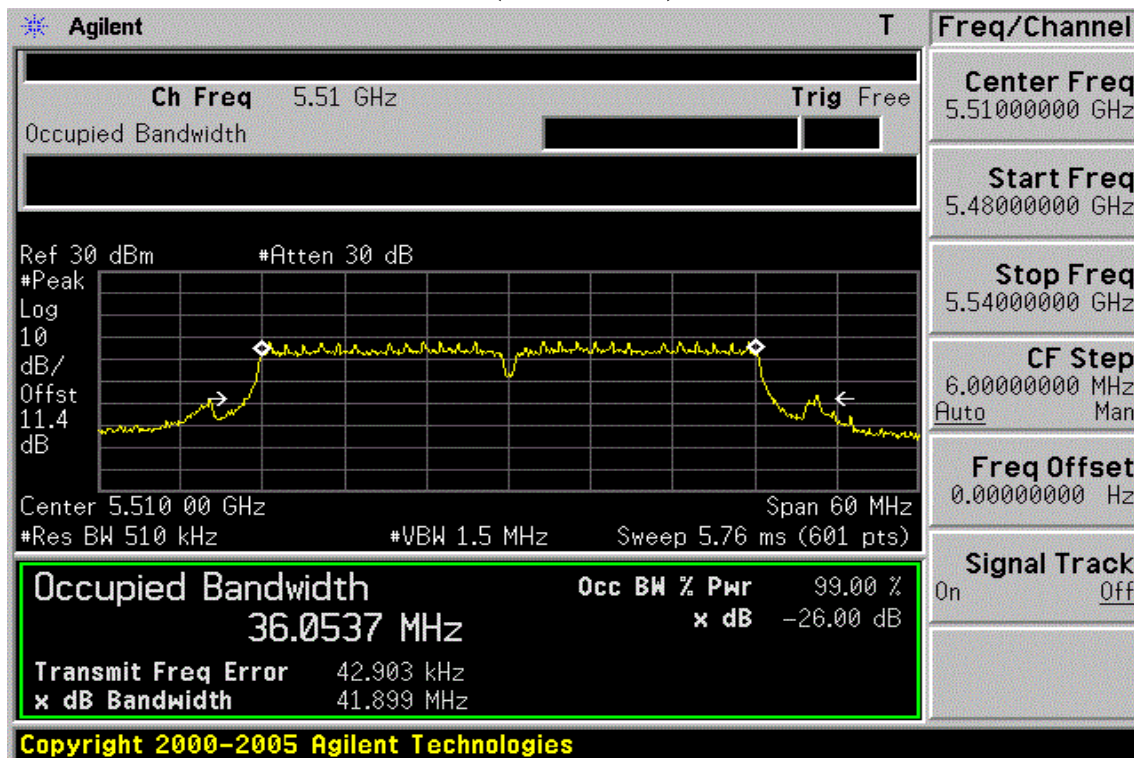
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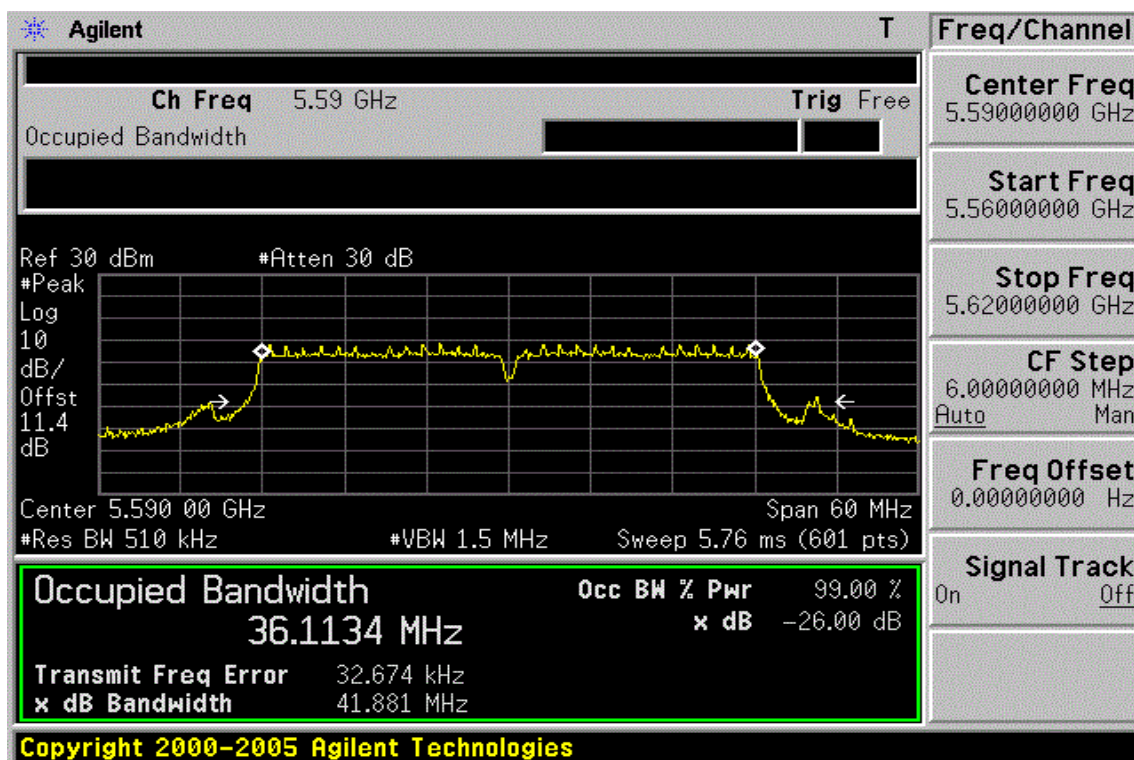
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802.11n HT40, 5470~5725 MHz

26dB Band Width Test Data CH-Low (5510 MHz)



26dB Band Width Test Data CH-Mid (5590 MHz)



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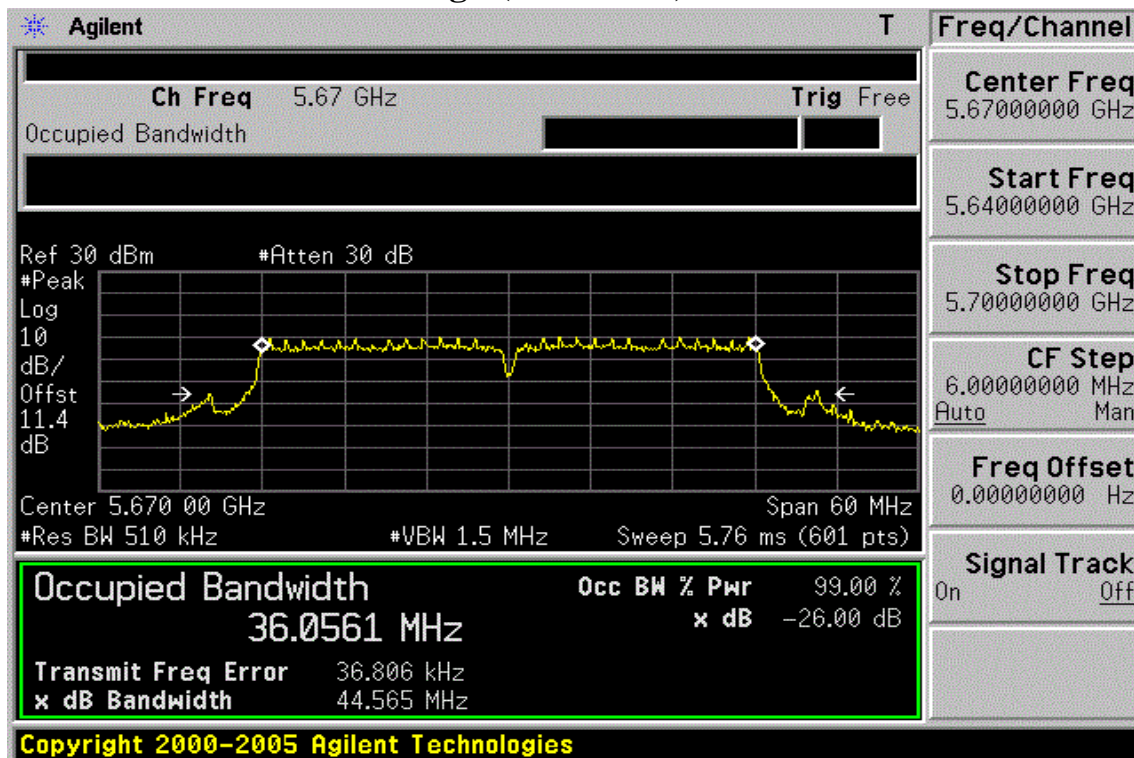
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26dB Band Width Test Data CH-High (5670 MHz)



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7.6 Measurement Result

99% Bandwidth

802.11a, 5150~5250 MHz

| Frequency (MHz) | 99% Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|-------------------------|-----------------|
| 5180 | 17.0603 | 12.32 |
| 5220 | 17.2159 | 12.36 |
| 5240 | 17.1413 | 12.34 |

802.11a, 5250~5350 MHz

| Frequency (MHz) | 99% Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|-------------------------|-----------------|
| 5260 | 17.2079 | 12.36 |
| 5300 | 17.1245 | 12.34 |
| 5320 | 17.0383 | 12.31 |

802.11a, 5470~5725 MHz

| Frequency (MHz) | 99% Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|-------------------------|-----------------|
| 5500 | 17.1065 | 12.33 |
| 5580 | 17.0321 | 12.31 |
| 5700 | 17.0988 | 12.33 |

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802.11n HT20, 5150~5250 MHz

| Frequency (MHz) | 99% Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|-------------------------|-----------------|
| 5180 | 17.8340 | 12.51 |
| 5220 | 17.8014 | 12.50 |
| 5240 | 17.8195 | 12.51 |

802.11n HT20, 5250~5350 MHz

| Frequency (MHz) | 99% Bandwidth (B) (MHz) | 10 Log 10(B) (dB) |
|-----------------|-------------------------|-------------------|
| 5260 | 17.8128 | 12.51 |
| 5300 | 17.8393 | 12.51 |
| 5320 | 17.8399 | 12.51 |

802.11n HT20, 5470~5725 MHz

| Frequency (MHz) | 99% Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|-------------------------|-----------------|
| 5500 | 17.8128 | 12.51 |
| 5580 | 17.8167 | 12.51 |
| 5700 | 17.7950 | 12.50 |

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802.11n HT40, 5150~5250 MHz

| Frequency (MHz) | 99% Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|-------------------------|-----------------|
| 5190 | 36.2536 | 15.59 |
| 5230 | 36.3030 | 15.60 |

802.11n HT40, 5250~5350 MHz

| Frequency (MHz) | 99% Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|-------------------------|-----------------|
| 5270 | 36.2014 | 15.59 |
| 5310 | 36.2598 | 15.59 |

802.11n HT40, 5470~5725 MHz

| Frequency (MHz) | 99% Bandwidth (B) (MHz) | 10 Log (B) (dB) |
|-----------------|-------------------------|-----------------|
| 5510 | 36.2119 | 15.59 |
| 5590 | 36.2282 | 15.59 |
| 5670 | 36.2605 | 15.59 |

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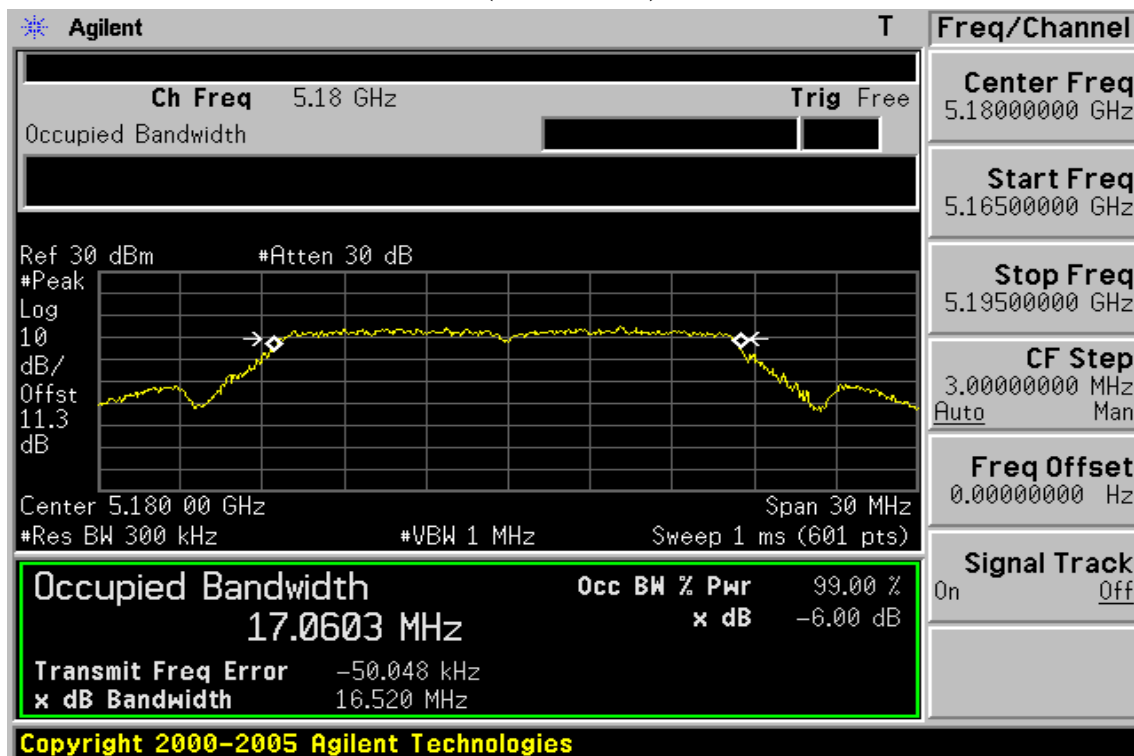
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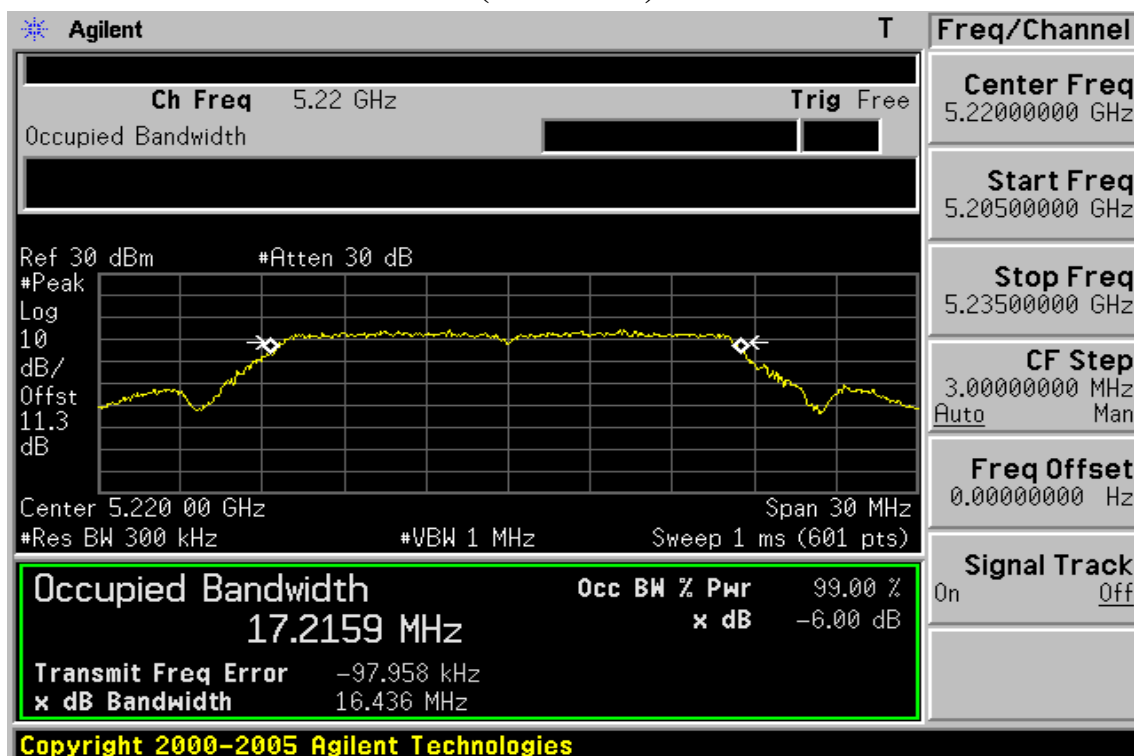
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802.11a, 5150~5250 MHz

99% Band Width Test Data CH-Low (5180MHz)



99% Band Width Test Data CH-Mid (5220MHz)



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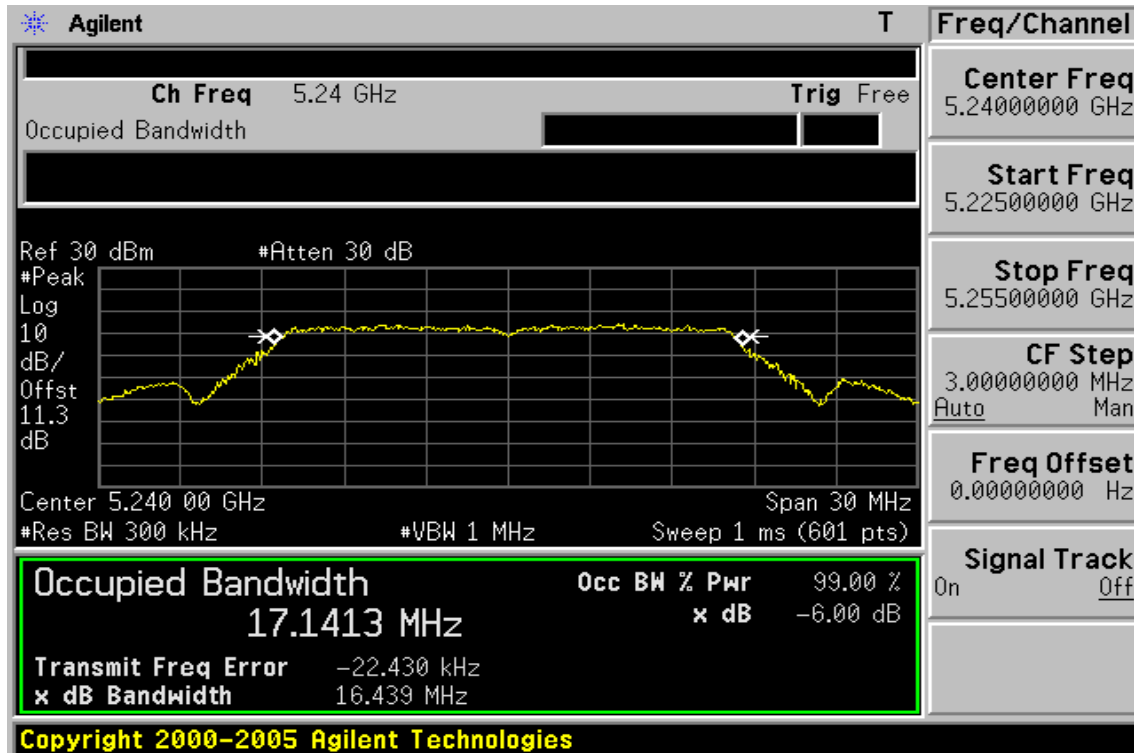
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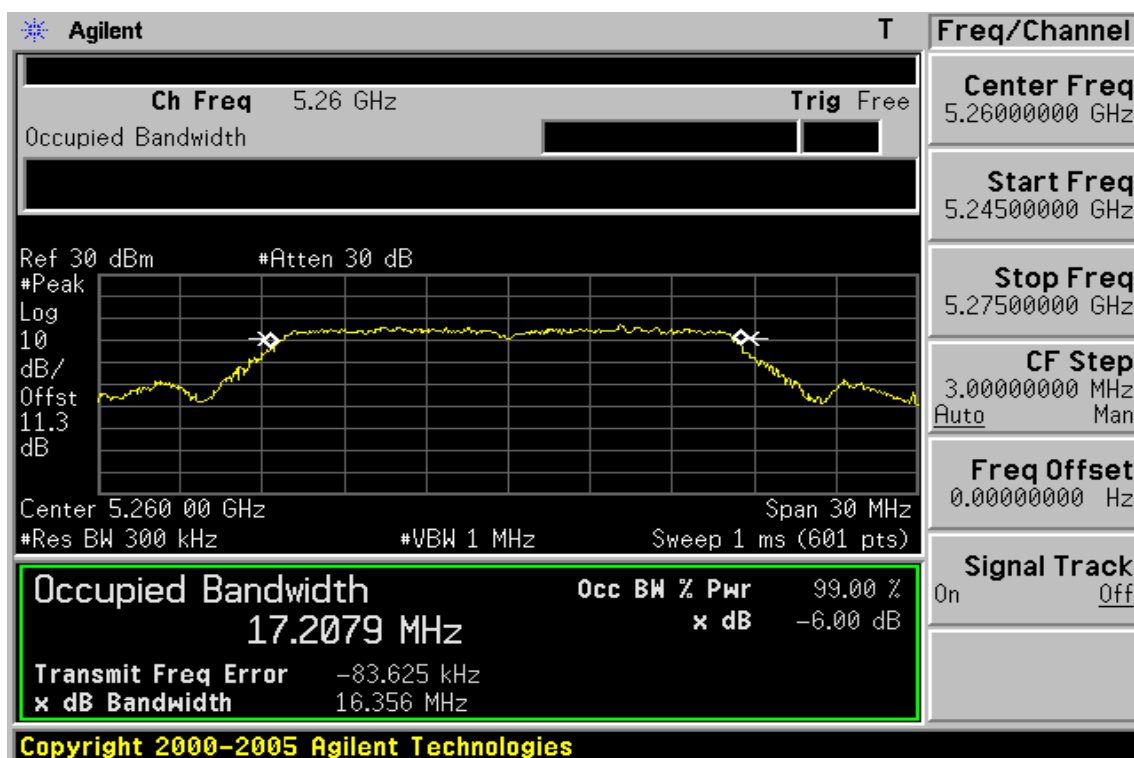
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99% Band Width Test Data CH-High (5240MHz)



802.11a, 5250~5350 MHz

99% Band Width Test Data CH-Low (5260MHz)



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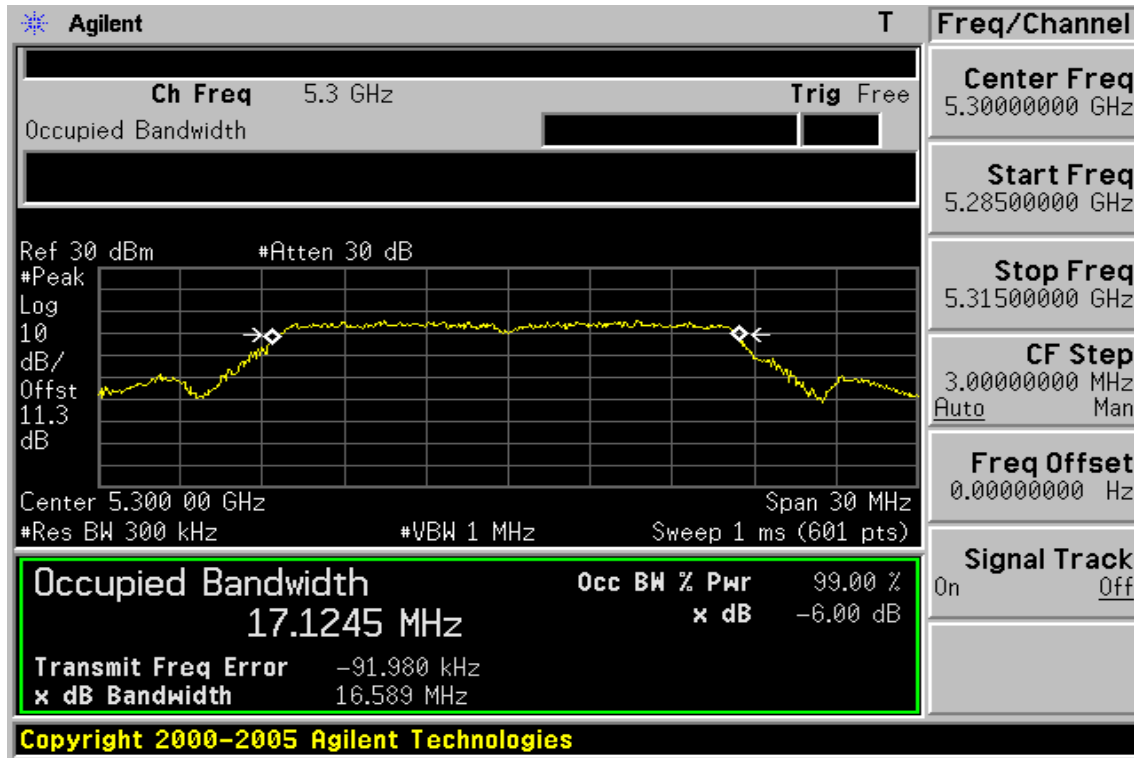
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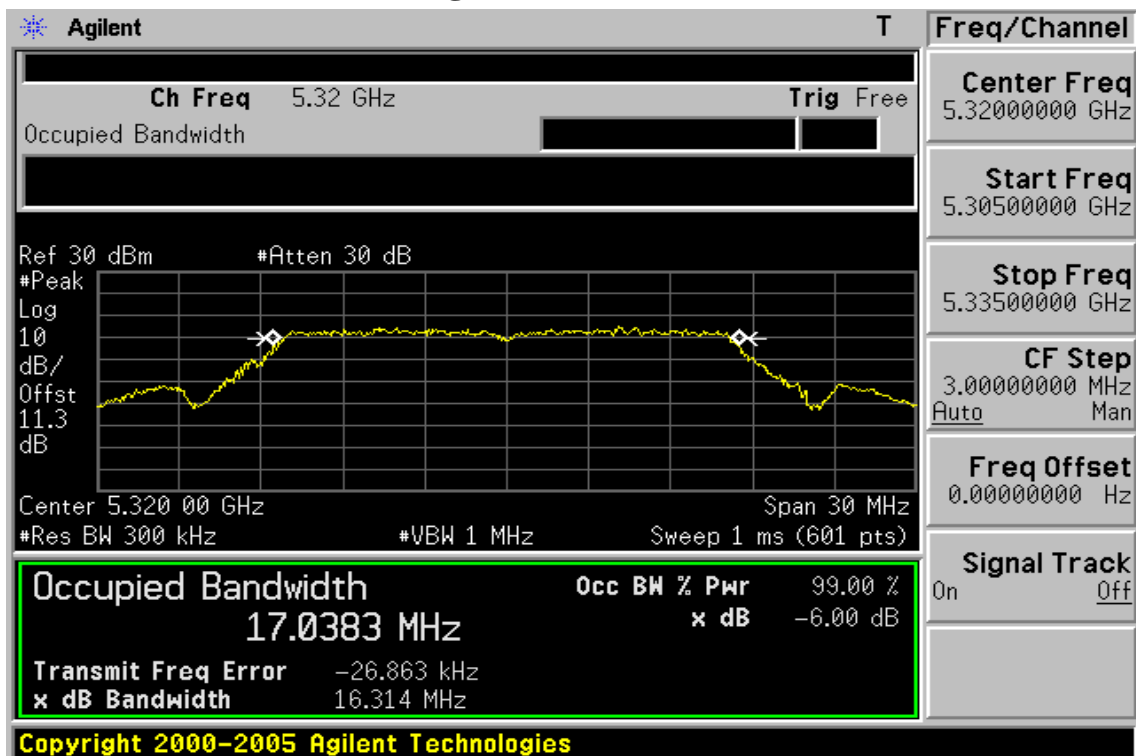
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99% Band Width Test Data CH-Mid (5300MHz)



99% Band Width Test Data CH-High (5320MHz)



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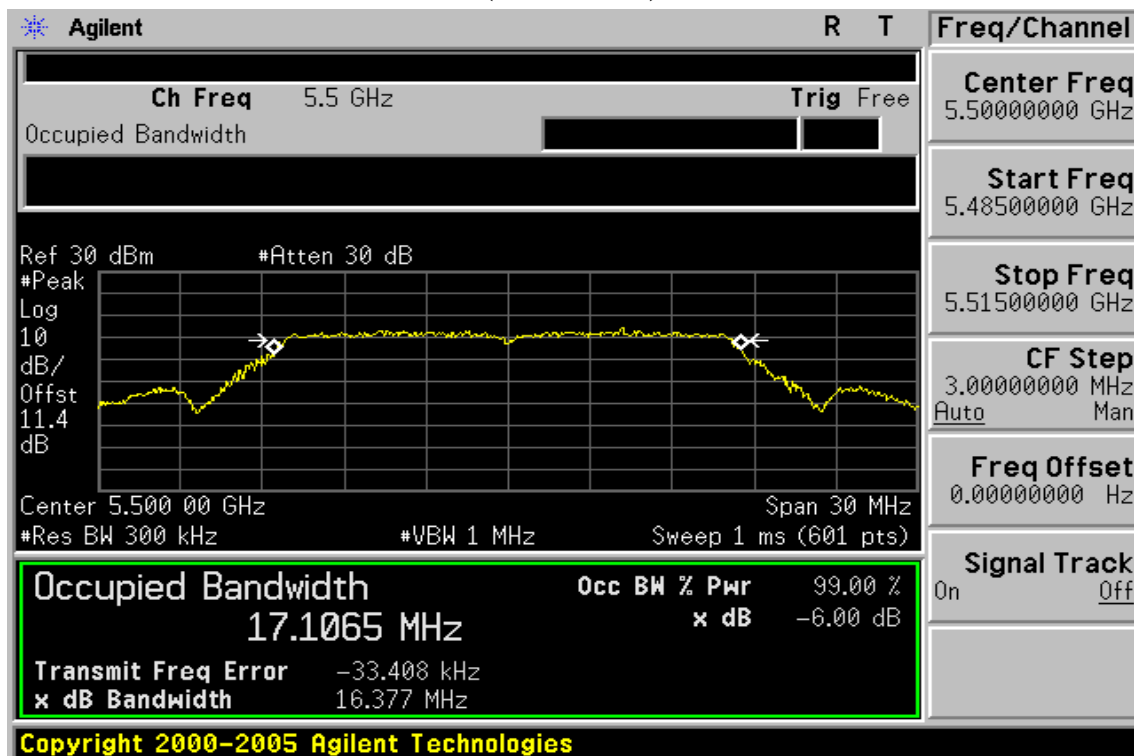
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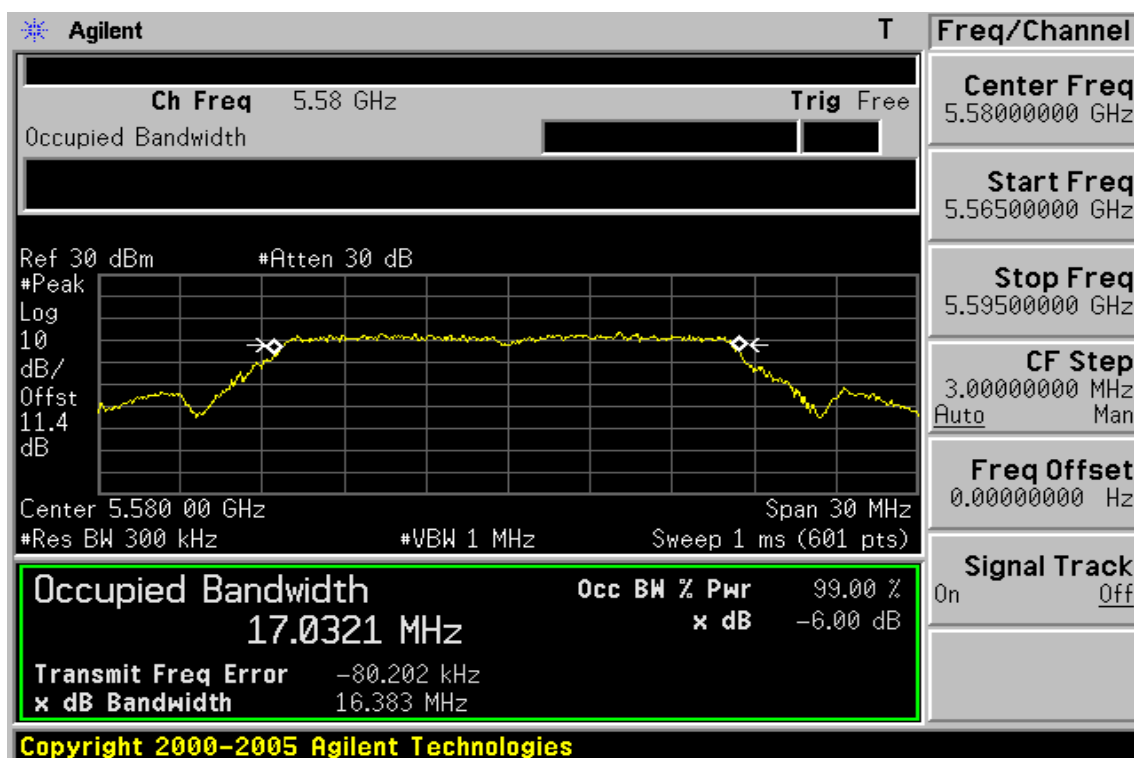
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802.11a, 5470~5725 MHz

99% Band Width Test Data CH-Low (5500MHz)



99% Band Width Test Data CH-Mid (5580MHz)



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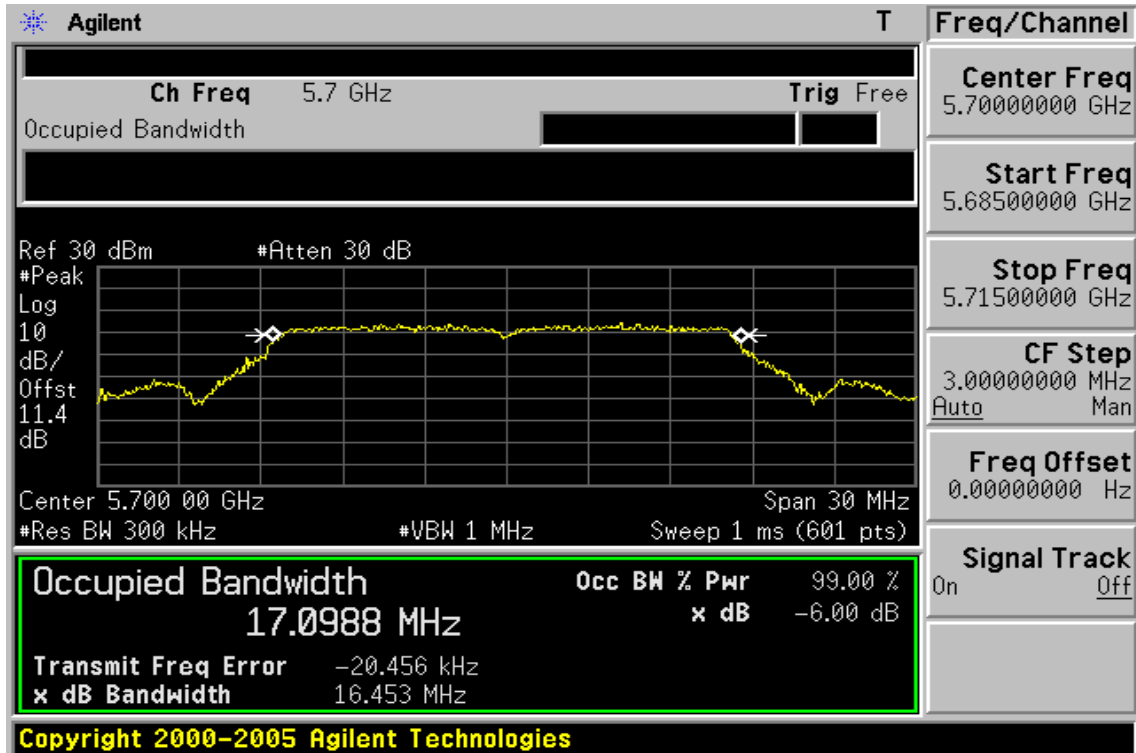
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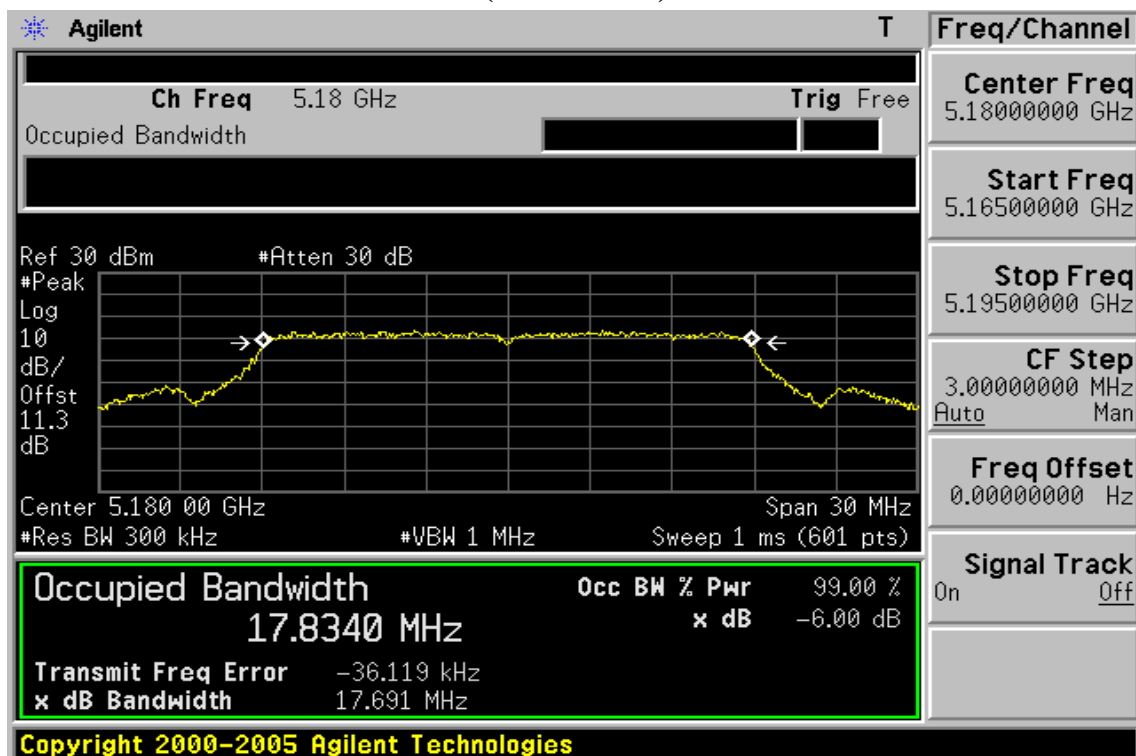
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99% Band Width Test Data CH-High (5700MHz)



802.11n HT20, 5150~5250 MHz

99% Band Width Test Data CH-Low (5180 MHz)



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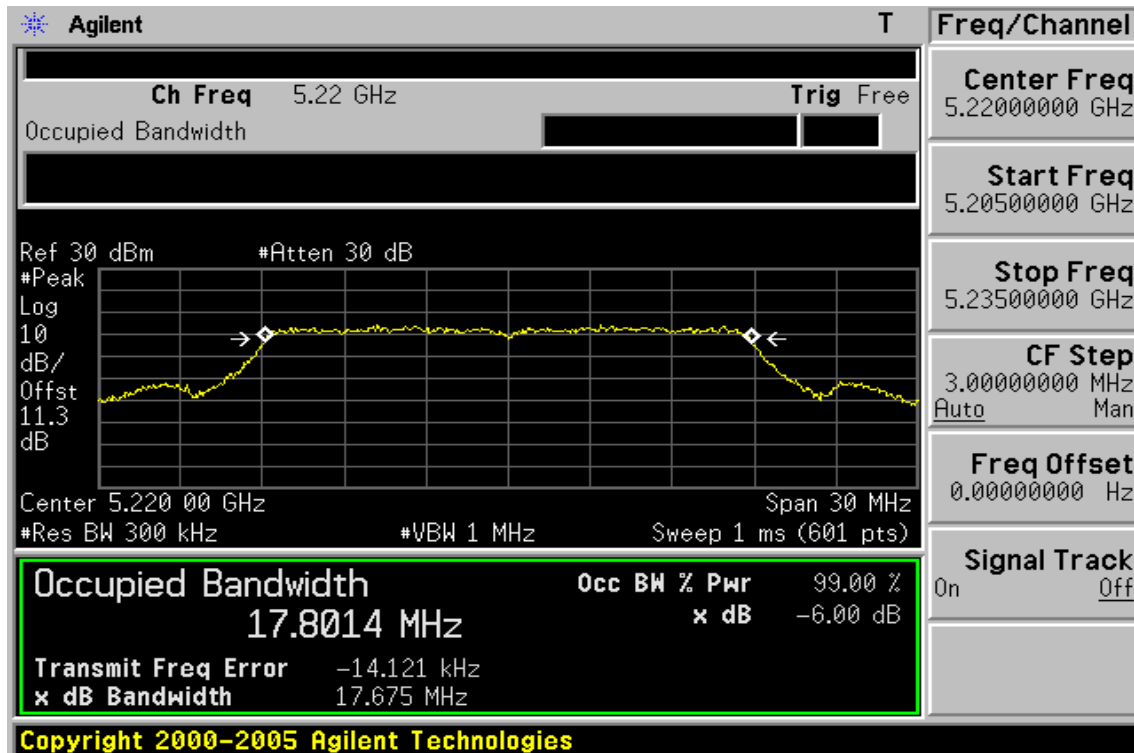
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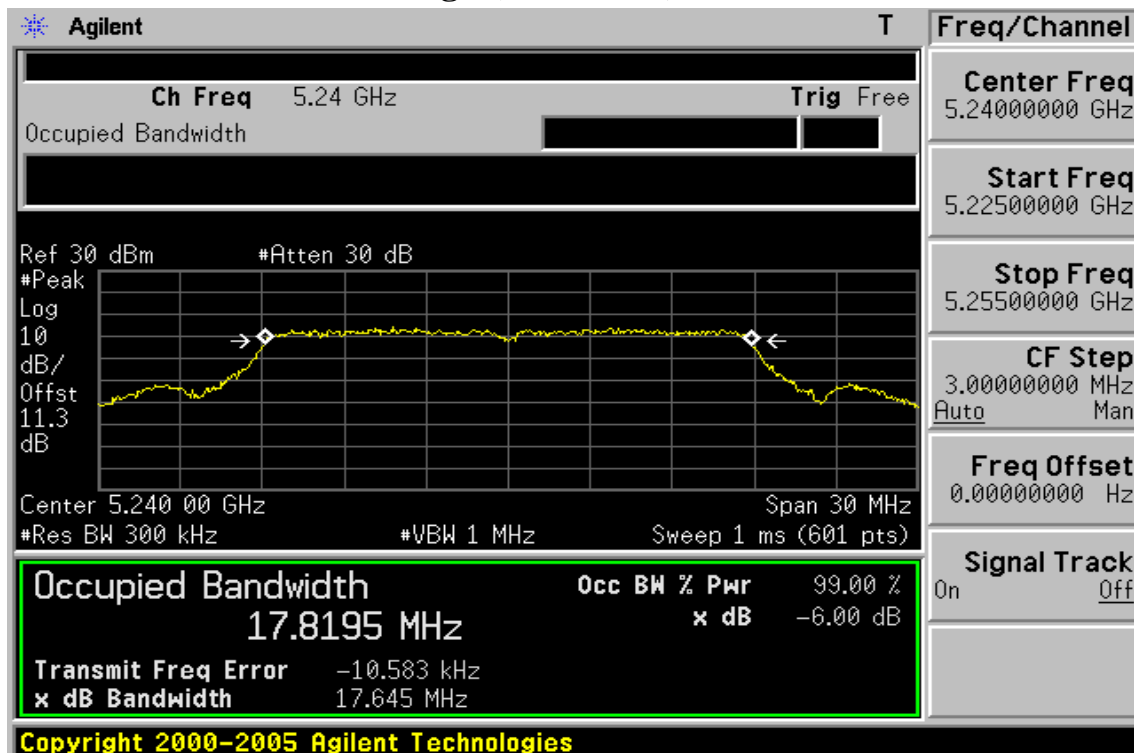
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99% Band Width Test Data CH-Mid (5220 MHz)



99% Band Width Test Data CH-High (5240 MHz)



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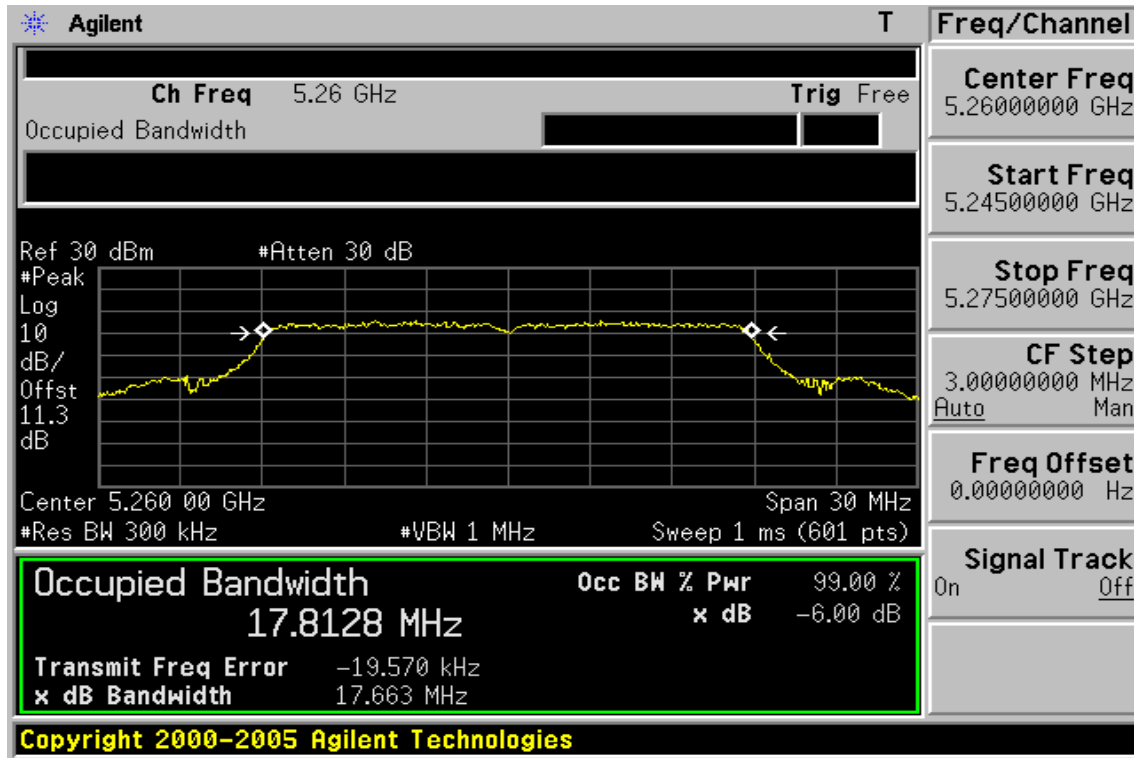
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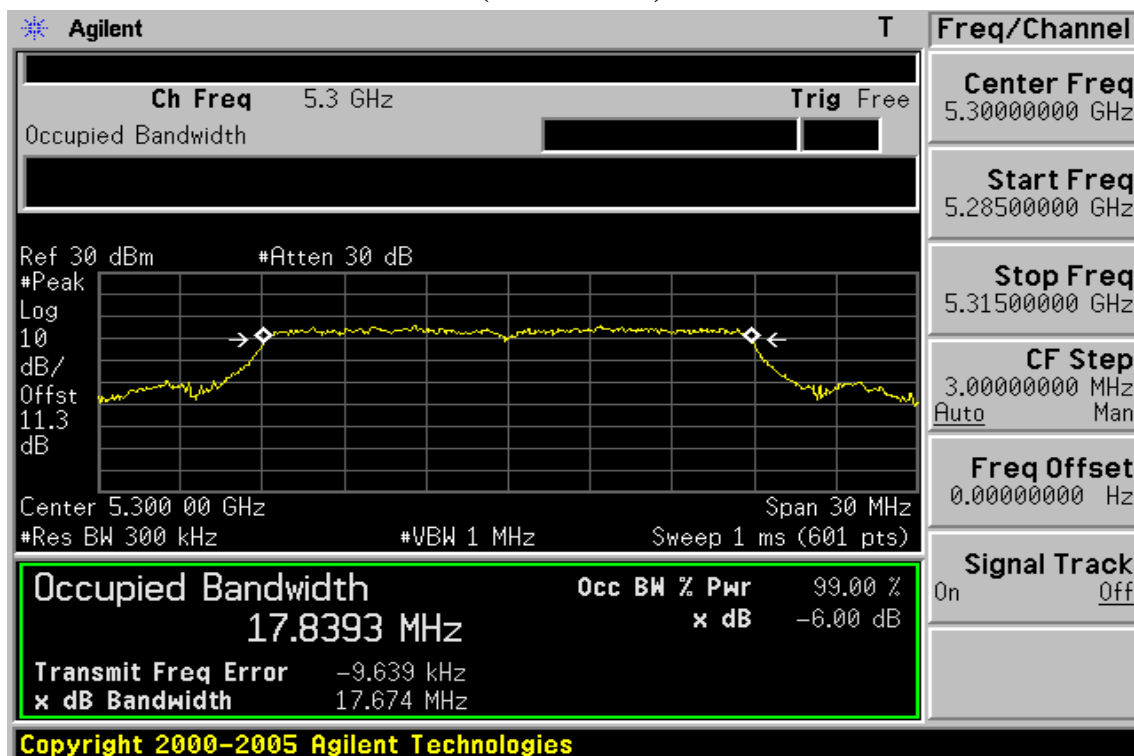
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802.11n HT20, 5250~5350 MHz

99% Band Width Test Data CH-Low (5260 MHz)



99% Band Width Test Data CH-Mid (5300 MHz)



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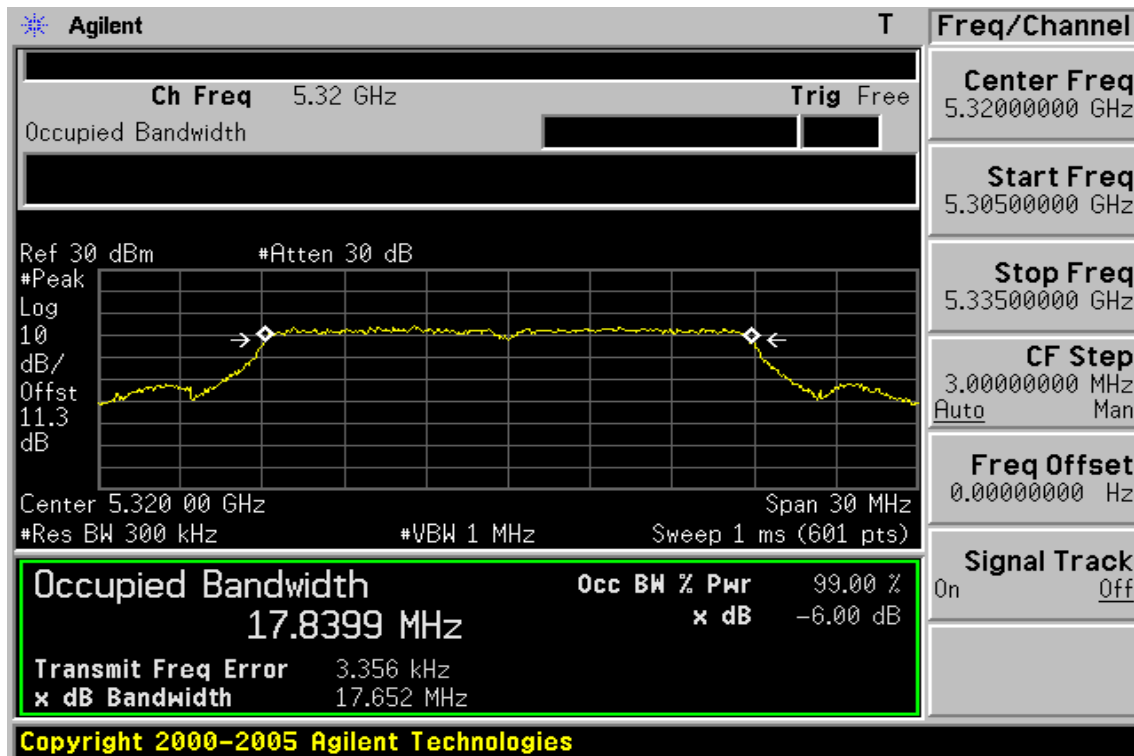
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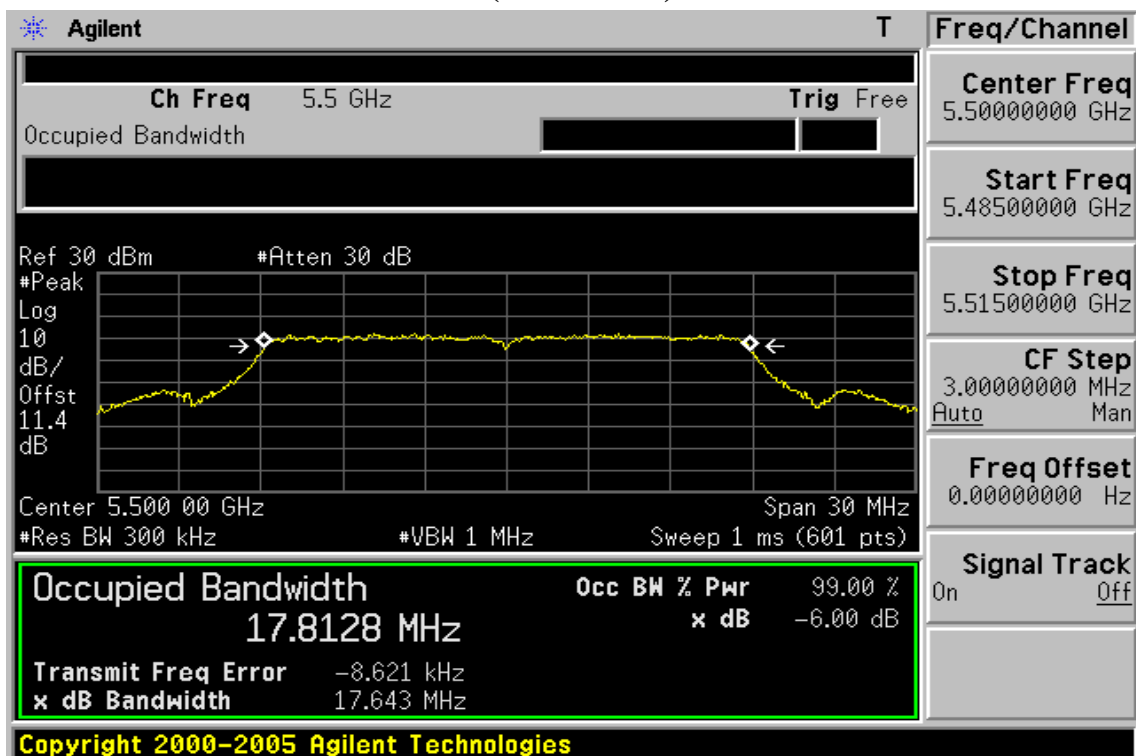
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99% Band Width Test Data CH-High (5320 MHz)



802.11n HT20, 5470~5725 MHz

99% Band Width Test Data CH-Low (5500 MHz)



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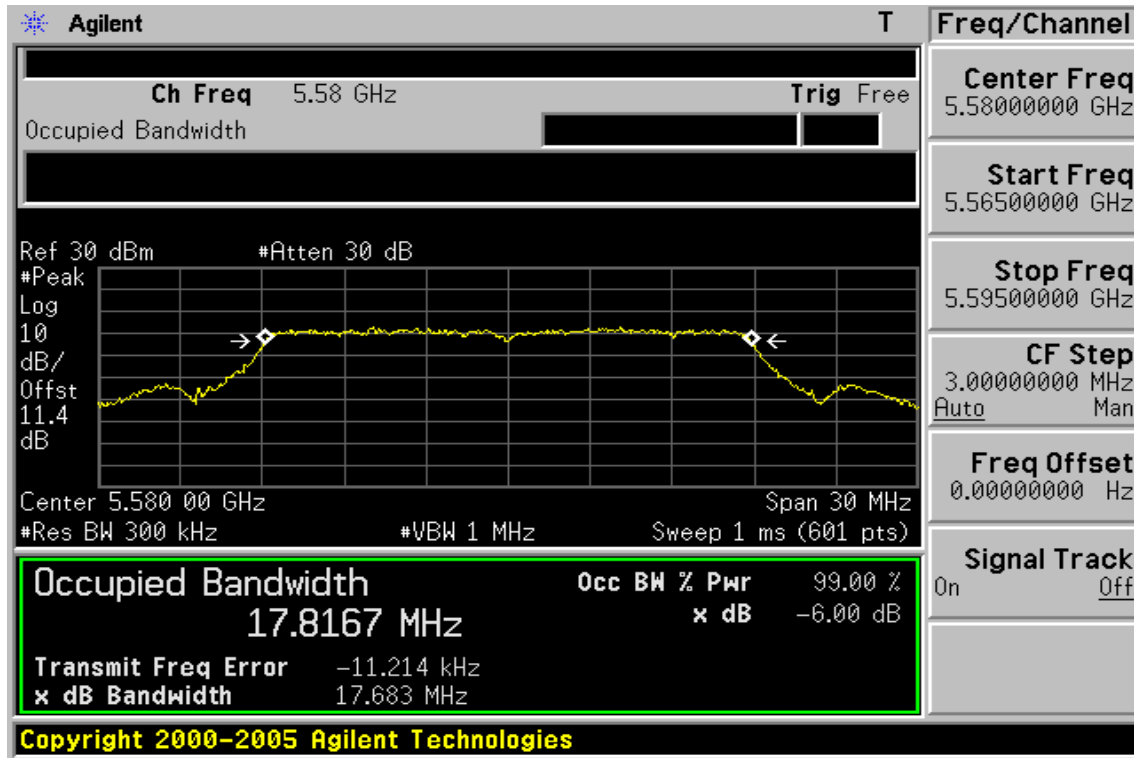
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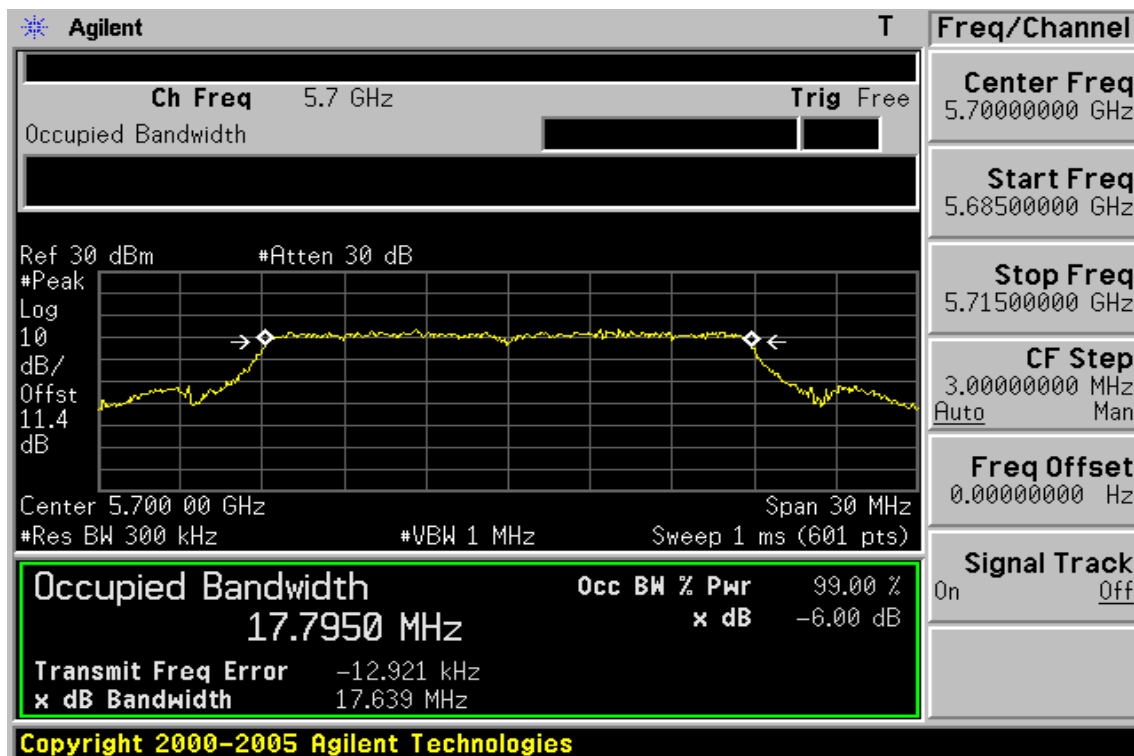
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99% Band Width Test Data CH-Mid (5580 MHz)



99% Band Width Test Data CH-High (5700 MHz)



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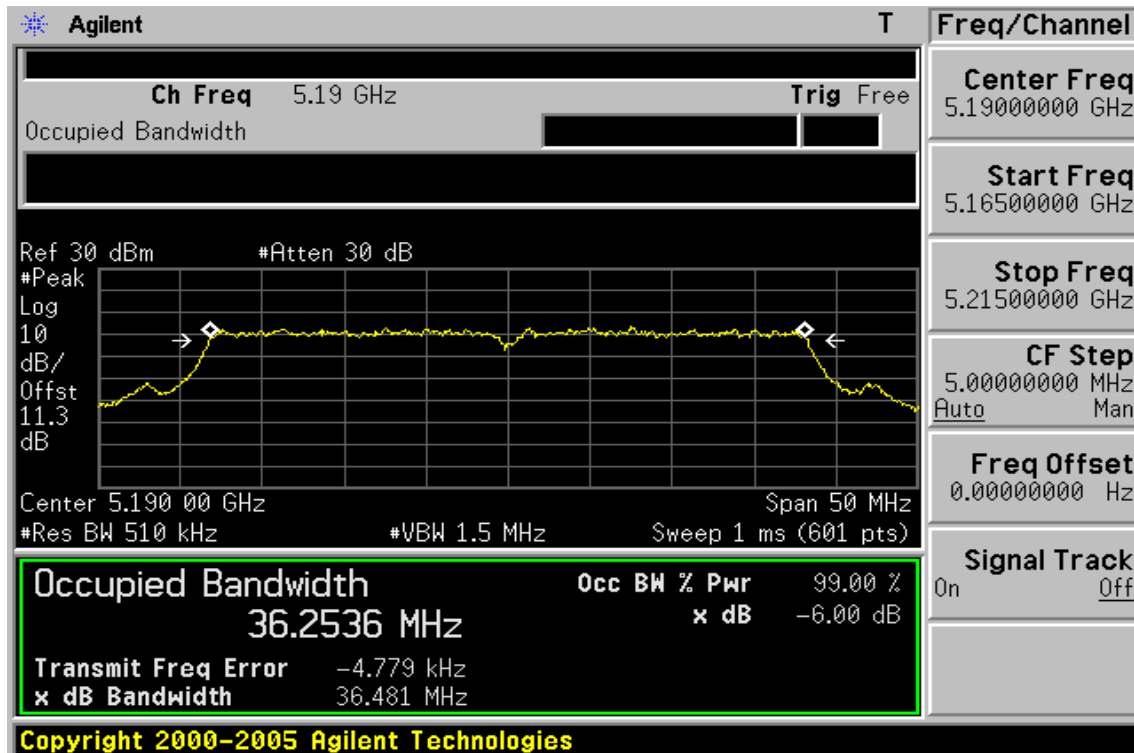
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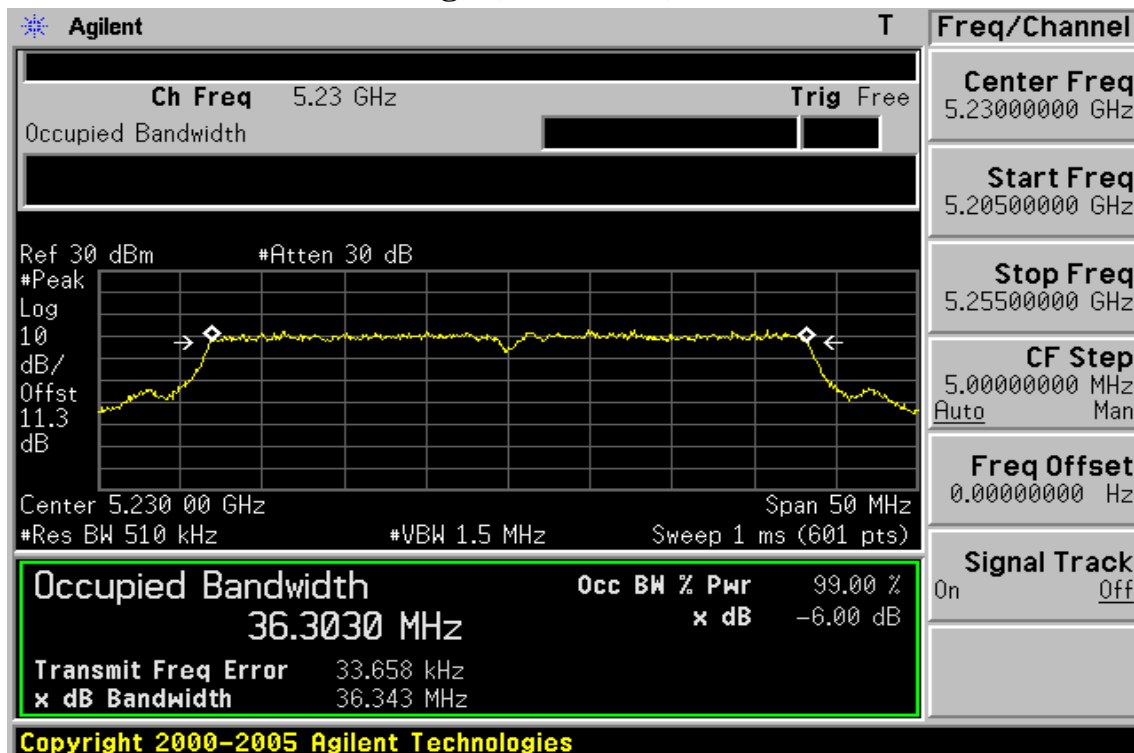
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802.11n HT40, 5150~5250 MHz

99% Band Width Test Data CH-Low (5190 MHz)



99% Band Width Test Data CH-High (5230 MHz)



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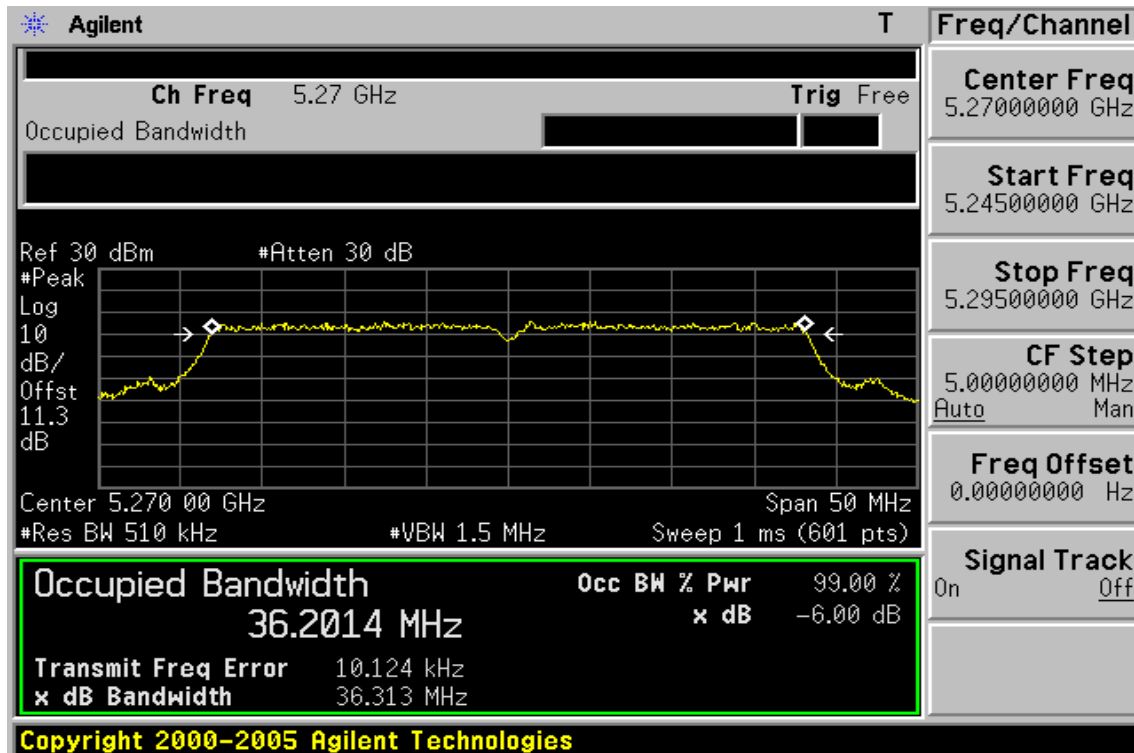
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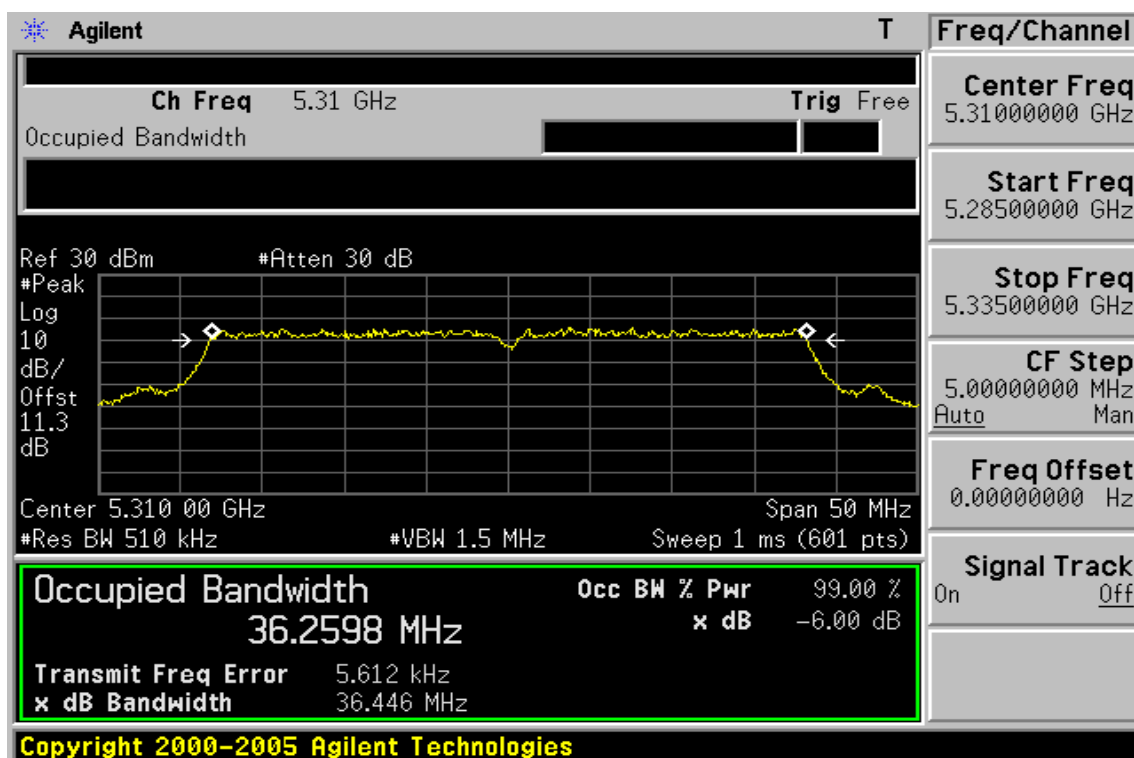
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802.11n HT40, 5250~5350 MHz

99% Band Width Test Data CH-Low (5270 MHz)



99% Band Width Test Data CH-High (5310MHz)



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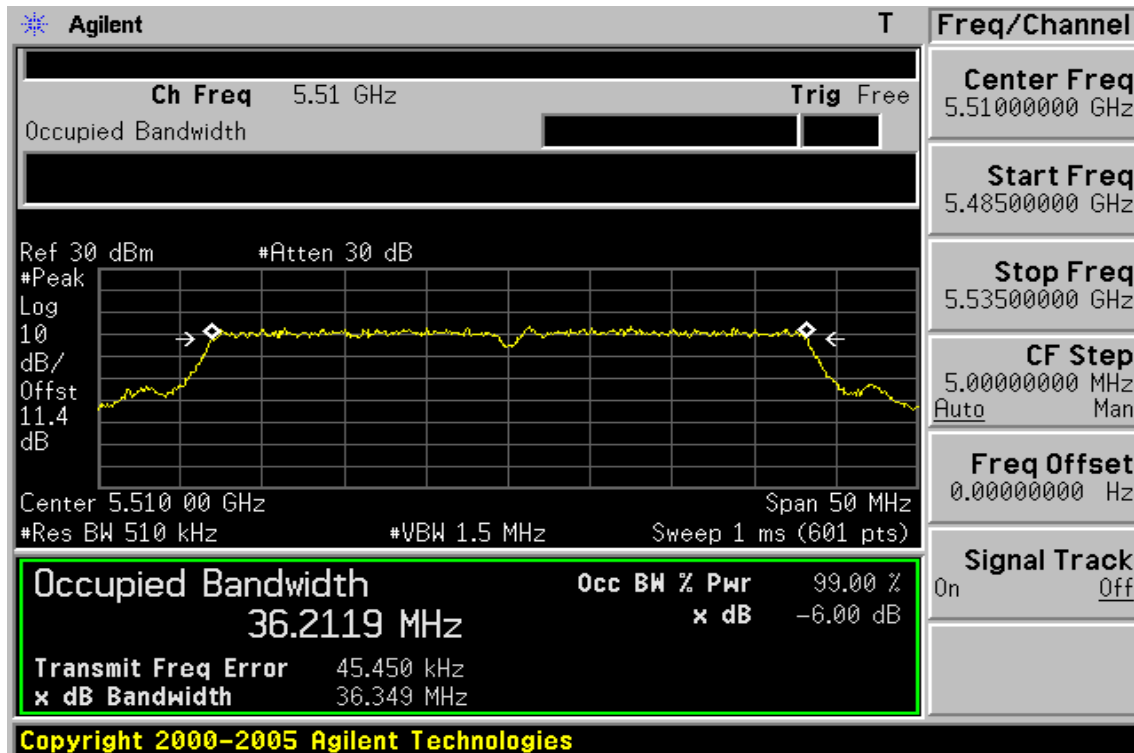
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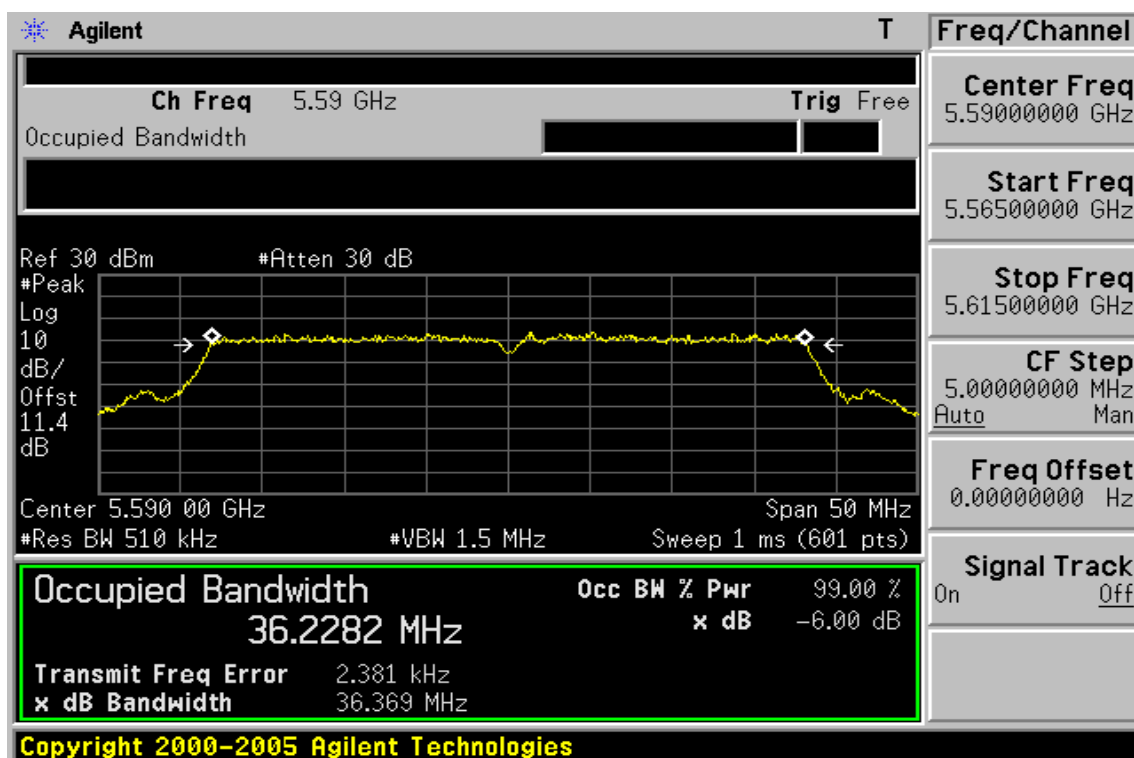
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802.11n HT40, 5470~5725 MHz

99% Band Width Test Data CH-Low (5510 MHz)



99% Band Width Test Data CH-Mid (5590 MHz)



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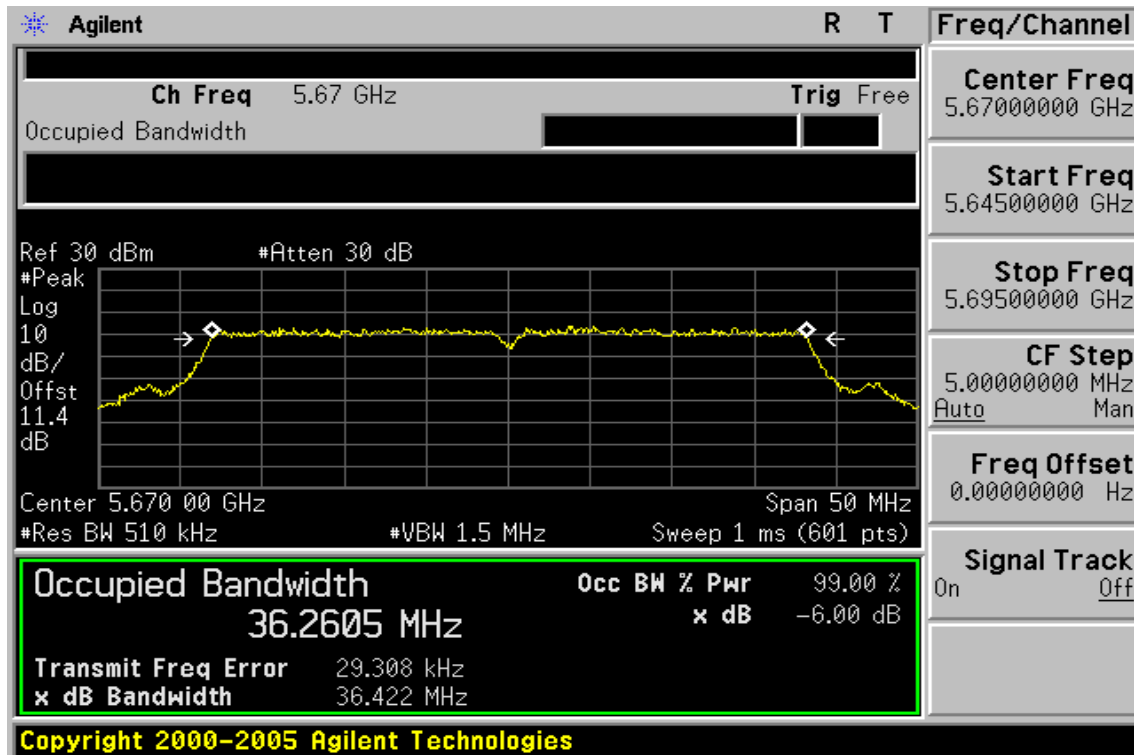
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99% Band Width Test Data CH-High (5670 MHz)



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8. PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

According to §15.407(a)

1. For the band 5.15-5.25 GHz, the maximum conducted power over the frequency of operation shall not exceed the lesser of 50 mW (17dBm) or $4 \text{ dBm} + 10 \log B$.
2. For the band 5.25-5.35 GHz and 5.47-5.725GHz, the maximum conducted power over the frequency of operation shall not exceed the lesser of 250 mW (24dBm) or $11 \text{ dBm} + 10 \log B$.
3. For the band 5.725-5.825 GHz, the maximum conducted power over the frequency of operation shall not exceed the lesser of 1W (30dBm) or $17 \text{ dBm} + 10 \log B$.

According to RSS-210 A9.2

1. For the band 5150-5250 MHz, the maximum equivalent isotropically radiated power (e.i.r.p.) shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.
2. For the bands 5250-5350 MHz and 5470-5725 MHz, the maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever power is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

In addition, devices with maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

In addition to the above requirements, devices operating in the band 5250-5350 MHz with maximum e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. elevation mask where θ is the angle above the local horizontal plane (of the earth) as shown below:

- (i) -13 dB(W/MHz) for $0^\circ \leq \theta < 8^\circ$
- (ii) $-13 - 0.716 (\theta - 8)$ dB(W/MHz) for $8^\circ \leq \theta < 40^\circ$
- (iii) $-35.9 - 1.22 (\theta - 40)$ dB(W/MHz) for $40^\circ \leq \theta \leq 45^\circ$
- (iv) -42 dB(W/MHz) for $\theta > 45^\circ$

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3. For the band 5725-5825 MHz, the maximum conducted output power shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever power is less. The power spectral density shall not exceed 17 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 4.0 W or $23 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

Fixed point-to-point systems for this band are permitted to have an e.i.r.p. greater than 4 W, provided that the higher e.i.r.p. is achieved by employing higher gain antennas, but not higher transmitter output powers. Point-to-multipoint systems, omni-directional applications and multiple co-located transmitters transmitting the same information are prohibited from exceeding 4 W e.i.r.p. However, remote stations of point-to-multipoint systems shall be permitted to operate at greater than 4 W e.i.r.p, under the same conditions as for point-to-point systems, where B is the 26dB emission bandwidth in MHz.

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note: The antenna gain is greater than 6 dBi in MIMO mode the limit reduce as below:

5180-5240 MHz

Antenna Gain: $3.92 \text{ dBi} + 10 \log(2) = 6.93 \text{ dBi}$

Limit: $16.99 \text{ dBm} - (6.93 - 6 \text{ dBi}) = 16.06 \text{ dBm} = 40.36 \text{ mW}$

5260-5320 MHz

Antenna Gain: $3.92 \text{ dBi} + 10 \log(2) = 6.93 \text{ dBi}$

Limit: $23.98 \text{ dBm} - (6.93 - 6 \text{ dBi}) = 23.05 \text{ dBm} = 201.84 \text{ mW}$

5500-5700 MHz

Antenna Gain: $4.97 \text{ dBi} + 10 \log(2) = 7.98 \text{ dBi}$

Limit: $23.98 \text{ dBm} - (7.98 - 6 \text{ dBi}) = 22 \text{ dBm} = 158.49 \text{ mW}$

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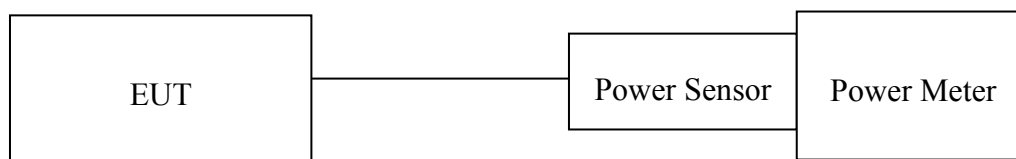
8.2 Measurement Procedure

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
3. Set the offset $10 \cdot \log(1/x)$ ($x=0.98$), 0.09 approximately.
4. Record the max. reading in average.
5. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
6. employing step 1 to4 obtaining per-chain basis in MIMO operation, and sum the power in linear to result the output of MIMO operation at frequency of interest (,where MIMO is applicable).

8.3 Measurement Equipment Used:

Refer to section 7.3 for details.

8.4 Test Set-up:



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8.5 Measurement Result

802.11a

| Cable loss = 0 | | Average Power Output | | | | | | | | | |
|----------------|-----------------|----------------------|-------|-------|-------|-------|-------|-------|-------|--|--|
| CH | Frequency (MHz) | Data Rate | | | | | | | | Required Limit | Required Limit |
| | | 6 | 9 | 12 | 18 | 24 | 36 | 48 | 54 | FCC | IC |
| 36 | 5180 | 11.31 | 11.08 | 10.86 | 10.63 | 10.41 | 10.18 | 9.96 | 9.74 | 50mWatt or 4+10log(B) = 17.26dBm | N/A |
| 44 | 5220 | 11.11 | 10.86 | 10.61 | 10.36 | 10.12 | 9.87 | 9.62 | 9.38 | 50mWatt or 4+10log(B) = 17.27dBm | N/A |
| 48 | 5240 | 11.14 | 10.89 | 10.64 | 10.39 | 10.15 | 9.90 | 9.65 | 9.41 | 50mWatt or 4+10log(B) = 17.33dBm | N/A |
| 52 | 5260 | 12.65 | 12.39 | 12.14 | 11.89 | 11.64 | 11.39 | 11.14 | 10.89 | 250mWatt or 11+10log(B) = 24.32dBm | 250mWatt or 11+10log(B) = 24.32dBm |
| 60 | 5300 | 12.41 | 12.18 | 11.95 | 11.72 | 11.49 | 11.26 | 11.03 | 10.80 | 250mWatt or 11+10log(B) = 24.27dBm | 250mWatt or 11+10log(B) = 24.27dBm |
| 64 | 5320 | 11.22 | 11.02 | 10.83 | 10.64 | 10.45 | 10.26 | 10.07 | 9.88 | 250mWatt or 11+10log(B) = 24.34dBm | 250mWatt or 11+10log(B) = 24.34dBm |
| 100 | 5500 | 8.78 | 8.70 | 8.63 | 8.56 | 8.49 | 8.42 | 8.35 | 8.28 | 250mWatt or 11+10log(B) = 24.42dBm | 250mWatt or 11+10log(B) = 24.42dBm |
| 116 | 5580 | 9.66 | 9.42 | 9.18 | 8.94 | 8.70 | 8.46 | 8.22 | 7.99 | 250mWatt or 11+10log(B) = 24.25dBm | 250mWatt or 11+10log(B) = 24.25dBm |
| 140 | 5700 | 10.27 | 10.02 | 9.78 | 9.54 | 9.29 | 9.05 | 8.81 | 8.57 | 250mWatt or 11+10log(B) = 24.42dBm | 250mWatt or 11+10log(B) = 24.42dBm |

Where, 50mW = 16.99dBm, and 250mW = 23.98dBm

Note: Offset 11.4dB for 5GHz

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802.11n HT20

| Cable loss = 0 | | Average Power Output (CH 0) | | | | | | | | | |
|----------------|-----------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|---------------------------------------|---------------------------------------|
| CH | Frequency (MHz) | Data Rate | | | | | | | | Required Limit | Required Limit |
| | | 14.4 | 28.9 | 43.3 | 57.8 | 86.7 | 115.6 | 130.0 | 144.4 | FCC | IC |
| 36 | 5180 | 8.64 | 8.35 | 8.06 | 7.78 | 7.49 | 7.21 | 6.92 | 6.64 | 40.36mWatt or 4+10log(B) = 18.01dBm | N/A |
| 44 | 5220 | 8.42 | 8.09 | 7.76 | 7.44 | 7.11 | 6.79 | 6.46 | 6.14 | 40.36mWatt or 4+10log(B) = 17.01dBm | N/A |
| 48 | 5240 | 9.24 | 8.81 | 8.39 | 7.97 | 7.55 | 7.13 | 6.71 | 6.29 | 40.36mWatt or 4+10log(B) = 17.99dBm | N/A |
| 52 | 5260 | 12.49 | 12.17 | 11.85 | 11.54 | 11.22 | 10.91 | 10.59 | 10.28 | 201.84mWatt or 11+10log(B) = 25.00dBm | 201.84mWatt or 11+10log(B) = 25.00dBm |
| 60 | 5300 | 12.20 | 11.90 | 11.60 | 11.30 | 11.01 | 10.71 | 10.41 | 10.12 | 201.84mWatt or 11+10log(B) = 24.99dBm | 201.84mWatt or 11+10log(B) = 24.99dBm |
| 64 | 5320 | 12.22 | 11.88 | 11.55 | 11.22 | 10.89 | 10.56 | 10.23 | 9.90 | 201.84mWatt or 11+10log(B) = 25.00dBm | 201.84mWatt or 11+10log(B) = 25.00dBm |
| 100 | 5500 | 9.92 | 9.36 | 8.80 | 8.24 | 7.68 | 7.12 | 6.56 | 6.01 | 158.49mWatt or 11+10log(B) = 24.00dBm | 158.49mWatt or 11+10log(B) = 24.00dBm |
| 116 | 5580 | 9.69 | 9.31 | 8.94 | 8.56 | 8.19 | 7.81 | 7.44 | 7.07 | 158.49mWatt or 11+10log(B) = 24.54dBm | 158.49mWatt or 11+10log(B) = 24.54dBm |
| 140 | 5700 | 10.08 | 9.70 | 9.32 | 8.94 | 8.57 | 8.19 | 7.81 | 7.44 | 158.49mWatt or 11+10log(B) = 25.00dBm | 158.49mWatt or 11+10log(B) = 25.00dBm |

Where, 50mW = 16.99dBm, and 250mW = 23.98dBm

Note: Offset 11.4dB for 5GHz

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802.11n HT20

| Cable loss = 0 | | Average Power Output (CH 1) | | | | | | | | | |
|----------------|-----------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|--|--|
| CH | Frequency (MHz) | Data Rate | | | | | | | | Required Limit | Required Limit |
| | | 14.4 | 28.9 | 43.3 | 57.8 | 86.7 | 115.6 | 130.0 | 144.4 | FCC | IC |
| 36 | 5180 | 8.07 | 7.83 | 7.59 | 7.36 | 7.12 | 6.89 | 6.65 | 6.42 | 40.36mWatt or 4+10log(B) = 18.01dBm | N/A |
| 44 | 5220 | 7.87 | 7.57 | 7.28 | 6.99 | 6.69 | 6.40 | 6.11 | 5.82 | 40.36mWatt or 4+10log(B) = 17.01dBm | N/A |
| 48 | 5240 | 8.06 | 7.77 | 7.48 | 7.19 | 6.90 | 6.61 | 6.32 | 6.03 | 40.36mWatt or 4+10log(B) = 17.99dBm | N/A |
| 52 | 5260 | 12.09 | 11.79 | 11.49 | 11.20 | 10.90 | 10.61 | 10.31 | 10.02 | 201.84mWatt or 11+10log(B) = 25.00dBm | 201.84mWatt or 11+10log(B) = 25.00dBm |
| 60 | 5300 | 11.63 | 11.37 | 11.11 | 10.85 | 10.60 | 10.34 | 10.08 | 9.83 | 201.84mWatt or 11+10log(B) = 24.99dBm | 201.84mWatt or 11+10log(B) = 24.99dBm |
| 64 | 5320 | 11.88 | 11.56 | 11.24 | 10.92 | 10.60 | 10.28 | 9.96 | 9.64 | 201.84mWatt or 11+10log(B) = 25.00dBm | 201.84mWatt or 11+10log(B) = 25.00dBm |
| 100 | 5500 | 9.72 | 9.10 | 8.48 | 7.86 | 7.24 | 6.62 | 6.00 | 5.39 | 158.49mWatt or 11+10log(B) = 24.00dBm | 158.49mWatt or 11+10log(B) = 24.00dBm |
| 116 | 5580 | 9.65 | 9.24 | 8.83 | 8.42 | 8.01 | 7.60 | 7.19 | 6.78 | 158.49mWatt or 11+10log(B) = 24.54dBm | 158.49mWatt or 11+10log(B) = 24.54dBm |
| 140 | 5700 | 10.01 | 9.59 | 9.18 | 8.77 | 8.35 | 7.94 | 7.53 | 7.12 | 158.49mWatt or 11+10log(B) = 25.00dBm | 158.49mWatt or 11+10log(B) = 25.00dBm |

Where, 50mW = 16.99dBm, and 250mW = 23.98dBm

Note: Offset 11.4dB for 5GHz

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802.11n HT20 MIMO operation

| Cable loss = 0 | | Average Power Output (CH 0 + CH 1) | | | | | | | | | |
|----------------|-----------------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|---------------------------------------|---------------------------------------|
| CH | Frequency (MHz) | Data Rate | | | | | | | | Required Limit | Required Limit |
| | | 14.4 | 28.9 | 43.3 | 57.8 | 86.7 | 115.6 | 130.0 | 144.4 | FCC | IC |
| 36 | 5180 | 11.37 | 11.11 | 10.84 | 10.59 | 10.32 | 10.06 | 9.80 | 9.54 | 40.36mWatt or 4+10log(B) = 18.01dBm | N/A |
| 44 | 5220 | 11.16 | 10.85 | 10.54 | 10.23 | 9.92 | 9.61 | 9.30 | 8.99 | 40.36mWatt or 4+10log(B) = 17.01dBm | N/A |
| 48 | 5240 | 11.70 | 11.33 | 10.97 | 10.61 | 10.25 | 9.89 | 9.53 | 9.17 | 40.36mWatt or 4+10log(B) = 17.99dBm | N/A |
| 52 | 5260 | 15.30 | 14.99 | 14.68 | 14.38 | 14.07 | 13.77 | 13.46 | 13.16 | 201.84mWatt or 11+10log(B) = 25.00dBm | 201.84mWatt or 11+10log(B) = 25.00dBm |
| 60 | 5300 | 14.93 | 14.65 | 14.37 | 14.09 | 13.82 | 13.54 | 13.26 | 12.99 | 201.84mWatt or 11+10log(B) = 24.99dBm | 201.84mWatt or 11+10log(B) = 24.99dBm |
| 64 | 5320 | 15.06 | 14.73 | 14.41 | 14.08 | 13.76 | 13.43 | 13.11 | 12.78 | 201.84mWatt or 11+10log(B) = 25.00dBm | 201.84mWatt or 11+10log(B) = 25.00dBm |
| 100 | 5500 | 12.83 | 12.24 | 11.65 | 11.06 | 10.48 | 9.89 | 9.30 | 8.72 | 158.49mWatt or 11+10log(B) = 24.00dBm | 158.49mWatt or 11+10log(B) = 24.00dBm |
| 116 | 5580 | 12.68 | 12.29 | 11.90 | 11.50 | 11.11 | 10.72 | 10.33 | 9.94 | 158.49mWatt or 11+10log(B) = 24.54dBm | 158.49mWatt or 11+10log(B) = 24.54dBm |
| 140 | 5700 | 13.06 | 12.66 | 12.26 | 11.87 | 11.47 | 11.08 | 10.68 | 10.29 | 158.49mWatt or 11+10log(B) = 25.00dBm | 158.49mWatt or 11+10log(B) = 25.00dBm |

Where, 50mW = 16.99dBm, and 250mW = 23.98dBm

Note: Offset 11.4dB for 5GHz

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802.11n HT40

| Cable loss = 0 | | Average Power Output (CH 0) | | | | | | | | | |
|----------------|-----------------|-----------------------------|-------|-------|------|------|------|------|------|--|--|
| CH | Frequency (MHz) | Data Rate | | | | | | | | Required Limit | Required Limit |
| | | 30 | 60 | 90 | 120 | 180 | 240 | 270 | 300 | FCC | IC |
| 38 | 5190 | 9.11 | 8.68 | 8.26 | 7.84 | 7.42 | 7.00 | 6.58 | 6.16 | 40.36mWatt or 4+10log(B) = 19.84dBm | N/A |
| 46 | 5230 | 9.29 | 8.87 | 8.46 | 8.05 | 7.64 | 7.23 | 6.82 | 6.41 | 40.36mWatt or 4+10log(B) = 20.20dBm | N/A |
| 54 | 5270 | 11.28 | 10.85 | 10.42 | 9.99 | 9.57 | 9.14 | 8.71 | 8.29 | 201.84mWatt or 11+10log(B) = 27.22dBm | 201.84mWatt or 11+10log(B) = 27.22dBm |
| 62 | 5310 | 11.15 | 10.73 | 10.32 | 9.91 | 9.49 | 9.08 | 8.67 | 8.26 | 201.84mWatt or 11+10log(B) = 27.23dBm | 201.84mWatt or 11+10log(B) = 27.23dBm |
| 102 | 5510 | 8.13 | 7.71 | 7.29 | 6.88 | 6.46 | 6.05 | 5.63 | 5.22 | 158.49mWatt or 11+10log(B) = 27.22dBm | 158.49mWatt or 11+10log(B) = 27.22dBm |
| 118 | 5590 | 9.02 | 8.58 | 8.14 | 7.70 | 7.26 | 6.82 | 6.38 | 5.95 | 158.49mWatt or 11+10log(B) = 27.22dBm | 158.49mWatt or 11+10log(B) = 27.22dBm |
| 134 | 5670 | 9.02 | 8.60 | 8.18 | 7.76 | 7.34 | 6.92 | 6.50 | 6.08 | 158.49mWatt or 11+10log(B) = 27.49dBm | 158.49mWatt or 11+10log(B) = 27.49dBm |

Where, 50mW = 16.99dBm, and 250mW = 23.98dBm

Note: Offset 11.4dB for 5GHz

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802.11n HT40

| Cable loss = 0 | | Average Power Output (CH 1) | | | | | | | | | |
|----------------|-----------------|-----------------------------|-------|------|------|------|------|------|------|--|--|
| CH | Frequency (MHz) | Data Rate | | | | | | | | Required Limit | Required Limit |
| | | 30 | 60 | 90 | 120 | 180 | 240 | 270 | 300 | FCC | IC |
| 38 | 5190 | 7.84 | 7.57 | 7.30 | 7.04 | 6.77 | 6.51 | 6.24 | 5.98 | 40.36mWatt or 4+10log(B) = 19.84dBm | N/A |
| 46 | 5230 | 7.65 | 7.44 | 7.23 | 7.03 | 6.82 | 6.62 | 6.41 | 6.21 | 40.36mWatt or 4+10log(B) = 20.20dBm | N/A |
| 54 | 5270 | 10.54 | 10.19 | 9.84 | 9.49 | 9.15 | 8.80 | 8.45 | 8.11 | 201.84mWatt or 11+10log(B) = 27.22dBm | 201.84mWatt or 11+10log(B) = 27.22dBm |
| 62 | 5310 | 10.16 | 9.85 | 9.55 | 9.25 | 8.95 | 8.65 | 8.35 | 8.05 | 201.84mWatt or 11+10log(B) = 27.23dBm | 201.84mWatt or 11+10log(B) = 27.23dBm |
| 102 | 5510 | 7.82 | 7.42 | 7.02 | 6.62 | 6.22 | 5.82 | 5.42 | 5.03 | 158.49mWatt or 11+10log(B) = 27.22dBm | 158.49mWatt or 11+10log(B) = 27.22dBm |
| 118 | 5590 | 7.89 | 7.57 | 7.26 | 6.95 | 6.64 | 6.33 | 6.02 | 5.71 | 158.49mWatt or 11+10log(B) = 27.22dBm | 158.49mWatt or 11+10log(B) = 27.22dBm |
| 134 | 5670 | 8.50 | 8.11 | 7.73 | 7.35 | 6.96 | 6.58 | 6.20 | 5.82 | 158.49mWatt or 11+10log(B) = 27.49dBm | 158.49mWatt or 11+10log(B) = 27.49dBm |

Where, 50mW = 16.99dBm, and 250mW = 23.98dBm

Note: Offset 11.4dB for 5GHz

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802.11n HT40 MIMO operation

| Cable loss = 0 | | Average Power Output (CH 0 + CH 1) | | | | | | | | | |
|----------------|-----------------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|--|--|
| CH | Frequency (MHz) | Data Rate | | | | | | | | Required Limit | Required Limit |
| | | 30 | 60 | 90 | 120 | 180 | 240 | 270 | 300 | FCC | IC |
| 38 | 5190 | 11.53 | 11.17 | 10.82 | 10.47 | 10.12 | 9.77 | 9.42 | 9.08 | 40.36mWatt or 4+10log(B) = 19.84dBm | N/A |
| 46 | 5230 | 11.56 | 11.22 | 10.90 | 10.58 | 10.26 | 9.95 | 9.63 | 9.32 | 40.36mWatt or 4+10log(B) = 20.20dBm | N/A |
| 54 | 5270 | 13.94 | 13.54 | 13.15 | 12.76 | 12.38 | 11.98 | 11.59 | 11.21 | 201.84mWatt or 11+10log(B) = 27.22dBm | 201.84mWatt or 11+10log(B) = 27.22dBm |
| 62 | 5310 | 13.69 | 13.32 | 12.96 | 12.60 | 12.24 | 11.88 | 11.52 | 11.17 | 201.84mWatt or 11+10log(B) = 27.23dBm | 201.84mWatt or 11+10log(B) = 27.23dBm |
| 102 | 5510 | 10.99 | 10.58 | 10.17 | 9.76 | 9.35 | 8.95 | 8.54 | 8.14 | 158.49mWatt or 11+10log(B) = 27.22dBm | 158.49mWatt or 11+10log(B) = 27.22dBm |
| 118 | 5590 | 11.50 | 11.11 | 10.73 | 10.35 | 9.97 | 9.59 | 9.21 | 8.84 | 158.49mWatt or 11+10log(B) = 27.22dBm | 158.49mWatt or 11+10log(B) = 27.22dBm |
| 134 | 5670 | 11.78 | 11.37 | 10.97 | 10.57 | 10.16 | 9.76 | 9.36 | 8.96 | 158.49mWatt or 11+10log(B) = 27.49dBm | 158.49mWatt or 11+10log(B) = 27.49dBm |

Where, 50mW = 16.99dBm, and 250mW = 23.98dBm

Note: Offset 11.4dB for 5GHz

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802.11a

| Cable loss = 0 | | Average Power Output (EIRP) | | | | | | | | |
|----------------|-----------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|------------------------------------|
| CH | Frequency (MHz) | Data Rate | | | | | | | | Required Limit |
| | | 6 | 9 | 12 | 18 | 24 | 36 | 48 | 54 | |
| 36 | 5180 | 15.19 | 14.96 | 14.74 | 14.51 | 14.29 | 14.06 | 13.84 | 13.62 | 200mWatt or 10+10log(B) = 22.32dBm |
| 44 | 5220 | 15.03 | 14.78 | 14.53 | 14.28 | 14.04 | 13.79 | 13.54 | 13.30 | 200mWatt or 10+10log(B) = 22.36dBm |
| 48 | 5240 | 15.02 | 14.77 | 14.52 | 14.27 | 14.03 | 13.78 | 13.53 | 13.29 | 200mWatt or 10+10log(B) = 22.34dBm |
| 52 | 5260 | 16.57 | 16.31 | 16.06 | 15.81 | 15.56 | 15.31 | 15.06 | 14.81 | 1.0Watt or 17+10log(B) = 29.36dBm |
| 60 | 5300 | 16.33 | 16.10 | 15.87 | 15.64 | 15.41 | 15.18 | 14.95 | 14.72 | 1.0Watt or 17+10log(B) = 29.34dBm |
| 64 | 5320 | 15.14 | 14.94 | 14.75 | 14.56 | 14.37 | 14.18 | 13.99 | 13.80 | 1.0Watt or 17+10log(B) = 29.31dBm |
| 100 | 5500 | 13.75 | 13.67 | 13.60 | 13.53 | 13.46 | 13.39 | 13.32 | 13.25 | 1.0Watt or 17+10log(B) = 29.33dBm |
| 116 | 5580 | 14.63 | 14.39 | 14.15 | 13.91 | 13.67 | 13.43 | 13.19 | 12.96 | 1.0Watt or 17+10log(B) = 29.31dBm |
| 140 | 5700 | 15.24 | 14.99 | 14.75 | 14.51 | 14.26 | 14.02 | 13.78 | 13.54 | 1.0Watt or 17+10log(B) = 29.33dBm |

Where, 200mW = 23.dBm, and 250mW = 23.98dBm

Note: Offset 11.4dB for 5GHz

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802.11n HT20

| Cable loss = 0 | | Average Power Output ((EIRP) CH 0) | | | | | | | | |
|----------------|-----------------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|--|
| CH | Frequency (MHz) | Data Rate | | | | | | | | Required Limit |
| | | 14.4 | 28.9 | 43.3 | 57.8 | 86.7 | 115.6 | 130.0 | 144.4 | |
| 36 | 5180 | 12.56 | 12.27 | 11.98 | 11.70 | 11.41 | 11.13 | 10.84 | 10.56 | 200mWatt or 10+10log(B) = 22.51dBm |
| 44 | 5220 | 12.34 | 12.01 | 11.68 | 11.36 | 11.03 | 10.71 | 10.38 | 10.06 | 200mWatt or 10+10log(B) = 22.50dBm |
| 48 | 5240 | 13.16 | 12.73 | 12.31 | 11.89 | 11.47 | 11.05 | 10.63 | 10.21 | 200mWatt or 10+10log(B) = 22.51dBm |
| 52 | 5260 | 16.41 | 16.09 | 15.77 | 15.46 | 15.14 | 14.83 | 14.51 | 14.20 | 1.0Watt or 17+10log(B) = 29.51dBm |
| 60 | 5300 | 16.12 | 15.82 | 15.52 | 15.22 | 14.93 | 14.63 | 14.33 | 14.04 | 1.0Watt or 17+10log(B) = 29.51dBm |
| 64 | 5320 | 16.14 | 15.80 | 15.47 | 15.14 | 14.81 | 14.48 | 14.15 | 13.82 | 1.0Watt or 17+10log(B) = 29.51dBm |
| 100 | 5500 | 14.89 | 14.33 | 13.77 | 13.21 | 12.65 | 12.09 | 11.53 | 10.98 | 1.0Watt or 17+10log(B) = 29.51dBm |
| 116 | 5580 | 14.66 | 14.28 | 13.91 | 13.53 | 13.16 | 12.78 | 12.41 | 12.04 | 1.0Watt or 17+10log(B) = 29.51dBm |
| 140 | 5700 | 15.05 | 14.67 | 14.29 | 13.91 | 13.54 | 13.16 | 12.78 | 12.41 | 1.0Watt or 17+10log(B) = 29.50dBm |

Where, 200mW = 23dBm, and 1.0W = 30dBm

Note: Offset 11.4dB for 5GHz

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802.11n HT20

| Cable loss = 0 | | Average Power Output (EIRP) (CH 1) | | | | | | | | |
|----------------|-----------------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|---|
| CH | Frequency (MHz) | Data Rate | | | | | | | | Required Limit |
| | | 14.4 | 28.9 | 43.3 | 57.8 | 86.7 | 115.6 | 130.0 | 144.4 | |
| 36 | 5180 | 11.99 | 11.75 | 11.51 | 11.28 | 11.04 | 10.81 | 10.57 | 10.34 | 200mWatt or 10+10log(B) = 22.51dBm |
| 44 | 5220 | 11.79 | 11.49 | 11.20 | 10.91 | 10.61 | 10.32 | 10.03 | 9.74 | 200mWatt or 10+10log(B) = 22.50dBm |
| 48 | 5240 | 11.98 | 11.69 | 11.40 | 11.11 | 10.82 | 10.53 | 10.24 | 9.95 | 200mWatt or 10+10log(B) = 22.51dBm |
| 52 | 5260 | 16.01 | 15.71 | 15.41 | 15.12 | 14.82 | 14.53 | 14.23 | 13.94 | 1.0Watt or 17+10log(B) = 29.51dBm |
| 60 | 5300 | 15.55 | 15.29 | 15.03 | 14.77 | 14.52 | 14.26 | 14.00 | 13.75 | 1.0Watt or 17+10log(B) = 29.51dBm |
| 64 | 5320 | 15.80 | 15.48 | 15.16 | 14.84 | 14.52 | 14.20 | 13.88 | 13.56 | 1.0Watt or 17+10log(B) = 29.51dBm |
| 100 | 5500 | 14.69 | 14.07 | 13.45 | 12.83 | 12.21 | 11.59 | 10.97 | 10.36 | 1.0Watt or 17+10log(B) = 29.51dBm |
| 116 | 5580 | 14.62 | 14.21 | 13.80 | 13.39 | 12.98 | 12.57 | 12.16 | 11.75 | 1.0Watt or 17+10log(B) = 29.51dBm |
| 140 | 5700 | 14.98 | 14.56 | 14.15 | 13.74 | 13.32 | 12.91 | 12.50 | 12.09 | 1.0Watt or 17+10log(B) = 29.50dBm |

Where, 200mW = 23dBm, and 1.0W = 30dBm

Note: Offset 11.4dB for 5GHz

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802.11n HT20 MIMO operation

| Cable loss = 0 | | Average Power Output (EIRP) (CH 0 + CH 1) | | | | | | | | |
|----------------|-----------------|---|-------|-------|-------|-------|-------|-------|-------|---|
| CH | Frequency (MHz) | Data Rate | | | | | | | | Required Limit |
| | | 14.4 | 28.9 | 43.3 | 57.8 | 86.7 | 115.6 | 130.0 | 144.4 | |
| 36 | 5180 | 15.29 | 15.03 | 14.76 | 14.51 | 14.24 | 13.98 | 13.72 | 13.46 | 200mWatt or $10+10\log(B) = 22.51\text{dBm}$ |
| 44 | 5220 | 15.08 | 14.77 | 14.46 | 14.15 | 13.84 | 13.53 | 13.22 | 12.91 | 200mWatt or $10+10\log(B) = 22.50\text{dBm}$ |
| 48 | 5240 | 15.62 | 15.25 | 14.89 | 14.53 | 14.17 | 13.81 | 13.45 | 13.09 | 200mWatt or $10+10\log(B) = 22.51\text{dBm}$ |
| 52 | 5260 | 19.22 | 18.91 | 18.60 | 18.30 | 17.99 | 17.69 | 17.38 | 17.08 | 1.0Watt or $17+10\log(B) = 29.51\text{dBm}$ |
| 60 | 5300 | 18.85 | 18.57 | 18.29 | 18.01 | 17.74 | 17.46 | 17.18 | 16.91 | 1.0Watt or $17+10\log(B) = 29.51\text{dBm}$ |
| 64 | 5320 | 18.98 | 18.65 | 18.33 | 18.00 | 17.68 | 17.35 | 17.03 | 16.70 | 1.0Watt or $17+10\log(B) = 29.51\text{dBm}$ |
| 100 | 5500 | 17.80 | 17.21 | 16.62 | 16.03 | 15.45 | 14.86 | 14.27 | 13.69 | 1.0Watt or $17+10\log(B) = 29.51\text{dBm}$ |
| 116 | 5580 | 17.65 | 17.26 | 16.87 | 16.47 | 16.08 | 15.69 | 15.30 | 14.91 | 1.0Watt or $17+10\log(B) = 29.51\text{dBm}$ |
| 140 | 5700 | 18.03 | 17.63 | 17.23 | 16.84 | 16.44 | 16.05 | 15.65 | 15.26 | 1.0Watt or $17+10\log(B) = 29.50\text{dBm}$ |

Where, 200mW = 23dBm, and 1.0W = 30dBm

Note: Offset 11.4dB for 5GHz

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802.11n HT40

| Cable loss = 0 | | Average Power Output (EIRP) (CH 0) | | | | | | | | |
|----------------|-----------------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|---|
| CH | Frequency (MHz) | Data Rate | | | | | | | | Required Limit |
| | | 30 | 60 | 90 | 120 | 180 | 240 | 270 | 300 | |
| 38 | 5190 | 13.03 | 12.60 | 12.18 | 11.76 | 11.34 | 10.92 | 10.50 | 10.08 | 200mWatt or $10+10\log(B) = 25.59\text{dBm}$ |
| 46 | 5230 | 13.21 | 12.79 | 12.38 | 11.97 | 11.56 | 11.15 | 10.74 | 10.33 | 200mWatt or $10+10\log(B) = 25.60\text{dBm}$ |
| 54 | 5270 | 15.20 | 14.77 | 14.34 | 13.91 | 13.49 | 13.06 | 12.63 | 12.21 | 1.0Watt or $17+10\log(B) = 32.59\text{dBm}$ |
| 62 | 5310 | 15.07 | 14.65 | 14.24 | 13.83 | 13.41 | 13.00 | 12.59 | 12.18 | 1.0Watt or $17+10\log(B) = 32.59\text{dBm}$ |
| 102 | 5510 | 13.10 | 12.68 | 12.26 | 11.85 | 11.43 | 11.02 | 10.60 | 10.19 | 1.0Watt or $17+10\log(B) = 32.59\text{dBm}$ |
| 118 | 5590 | 13.99 | 13.55 | 13.11 | 12.67 | 12.23 | 11.79 | 11.35 | 10.92 | 1.0Watt or $17+10\log(B) = 32.59\text{dBm}$ |
| 134 | 5670 | 13.99 | 13.57 | 13.15 | 12.73 | 12.31 | 11.89 | 11.47 | 11.05 | 1.0Watt or $17+10\log(B) = 32.59\text{dBm}$ |

Where, 200mW = 23dBm, and 1.0W = 30dBm

Note: Offset 11.4dB for 5GHz

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| Cable loss = 0 | | Average Power Output (EIRP) (CH 1) | | | | | | | | |
|----------------|-----------------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|---|
| CH | Frequency (MHz) | Data Rate | | | | | | | | Required Limit |
| | | 30 | 60 | 90 | 120 | 180 | 240 | 270 | 300 | |
| 38 | 5190 | 11.76 | 11.49 | 11.22 | 10.96 | 10.69 | 10.43 | 10.16 | 9.90 | 200mWatt or 10+10log(B) = 25.59dBm |
| 46 | 5230 | 11.57 | 11.36 | 11.15 | 10.95 | 10.74 | 10.54 | 10.33 | 10.13 | 200mWatt or 10+10log(B) = 25.60dBm |
| 54 | 5270 | 14.46 | 14.11 | 13.76 | 13.41 | 13.07 | 12.72 | 12.37 | 12.03 | 1.0Watt or 17+10log(B) = 32.59dBm |
| 62 | 5310 | 14.08 | 13.77 | 13.47 | 13.17 | 12.87 | 12.57 | 12.27 | 11.97 | 1.0Watt or 17+10log(B) = 32.59dBm |
| 102 | 5510 | 12.79 | 12.39 | 11.99 | 11.59 | 11.19 | 10.79 | 10.39 | 10.00 | 1.0Watt or 17+10log(B) = 32.59dBm |
| 118 | 5590 | 12.86 | 12.54 | 12.23 | 11.92 | 11.61 | 11.30 | 10.99 | 10.68 | 1.0Watt or 17+10log(B) = 32.59dBm |
| 134 | 5670 | 13.47 | 13.08 | 12.70 | 12.32 | 11.93 | 11.55 | 11.17 | 10.79 | 1.0Watt or 17+10log(B) = 32.59dBm |

Where, 200mW = 23dBm, and 250mW = 30dBm

Note: Offset 11.4dB for 5GHz

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802.11n HT40 MIMO operation

| Cable loss = 0 | | Average Power Output (EIRP) (CH 0 + CH 1) | | | | | | | | |
|----------------|-----------------|---|-------|-------|-------|-------|-------|-------|-------|---|
| CH | Frequency (MHz) | Data Rate | | | | | | | | Required Limit |
| | | 30 | 60 | 90 | 120 | 180 | 240 | 270 | 300 | |
| 38 | 5190 | 15.45 | 15.09 | 14.74 | 14.39 | 14.04 | 13.69 | 13.34 | 13.00 | 200mWatt or $10+10\log(B) = 25.59\text{dBm}$ |
| 46 | 5230 | 15.48 | 15.14 | 14.82 | 14.50 | 14.18 | 13.87 | 13.55 | 13.24 | 200mWatt or $10+10\log(B) = 25.60\text{dBm}$ |
| 54 | 5270 | 17.86 | 17.46 | 17.07 | 16.68 | 16.30 | 15.90 | 15.51 | 15.13 | 1.0Watt or $17+10\log(B) = 32.59\text{dBm}$ |
| 62 | 5310 | 17.61 | 17.24 | 16.88 | 16.52 | 16.16 | 15.80 | 15.44 | 15.09 | 1.0Watt or $17+10\log(B) = 32.59\text{dBm}$ |
| 102 | 5510 | 15.96 | 15.55 | 15.14 | 14.73 | 14.32 | 13.92 | 13.51 | 13.11 | 1.0Watt or $17+10\log(B) = 32.59\text{dBm}$ |
| 118 | 5590 | 16.47 | 16.08 | 15.70 | 15.32 | 14.94 | 14.56 | 14.18 | 13.81 | 1.0Watt or $17+10\log(B) = 32.59\text{dBm}$ |
| 134 | 5670 | 16.75 | 16.34 | 15.94 | 15.54 | 15.13 | 14.73 | 14.33 | 13.93 | 1.0Watt or $17+10\log(B) = 32.59\text{dBm}$ |

Where, 200mW = 23dBm, and 1.0W = 30dBm

Note: Offset 11.4dB for 5GHz

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9. PEAK POWER SPECTRAL DENSITY

9.1 Standard Applicable

According to §15.407(a)

1. For the band 5.15-5.25 GHz, the peak power spectral density shall not exceed 4 dBm in any 1-MHz band.
2. For the band 5.25-5.35 GHz and 5.47-5.725GHz, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band.
3. For the band 5.725-5.825 GHz, the peak power spectral density shall not exceed 17 dBm in any 1-MHz band.

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note: The antenna gain is greater than 6 dBi in MIMO mode the limit reduce as below:

5180-5240 MHz

Antenna Gain: $3.92 \text{ dBi} + 10 \log (2) = 6.93 \text{ dBi}$

Limit: $4 \text{ dBm} - (6.93 - 6 \text{ dBi}) = 3.07 \text{ dBm}$

5260-5320 MHz

Antenna Gain: $3.92 \text{ dBi} + 10 \log (2) = 6.93 \text{ dBi}$

Limit: $11 \text{ dB} - (6.93 - 6 \text{ dBi}) = 10.07 \text{ dBm}$

5500-5700 MHz

Antenna Gain: $4.97 \text{ dBi} + 10 \log (2) = 7.98 \text{ dBi}$

Limit: $11 \text{ dB} - (7.98 - 6 \text{ dBi}) = 9.02 \text{ dBm}$

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According to RSS-210 A9.2

1. For the band 5150-5250 MHz, the maximum equivalent isotropically radiated power (e.i.r.p.) shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.
2. For the bands 5250-5350 MHz and 5470-5725 MHz, the maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever power is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 1.0 W or

$17 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

In addition, devices with maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

In addition to the above requirements, devices operating in the band 5250-5350 MHz with maximum e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. elevation mask where θ is the angle above the local horizontal plane (of the earth) as shown below:

- (i) -13 dB(W/MHz) for $0^\circ \leq \theta < 8^\circ$
- (ii) $-13 - 0.716 (\theta - 8)$ dB(W/MHz) for $8^\circ \leq \theta < 40^\circ$
- (iii) $-35.9 - 1.22 (\theta - 40)$ dB(W/MHz) for $40^\circ \leq \theta \leq 45^\circ$
- (iv) -42 dB(W/MHz) for $\theta > 45^\circ$

3. For the band 5725-5825 MHz, the maximum conducted output power shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever power is less. The power spectral density shall not exceed 17 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 4.0 W or $23 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

Fixed point-to-point systems for this band are permitted to have an e.i.r.p. greater than 4 W, provided that the higher e.i.r.p. is achieved by employing higher gain antennas, but not higher transmitter output powers. Point-to-multipoint systems, omni-directional applications and multiple co-located transmitters transmitting the same information are prohibited from exceeding 4 W e.i.r.p. However, remote stations of point-to-multipoint systems shall be permitted to operate at greater than 4 W e.i.r.p., under the same conditions as for point-to-point systems.

B is the 99% emission bandwidth in MHz.

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9.2 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 Spectrum.
3. Set RBW=1MHz, VBW=3MHz, Span=50MHz/80MHz (Base Mode), where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging.
4. User the cursor on spectrum to peak search the highest level of trace.
5. Record the max. Reading.
6. For MIMO mode, add the appropriate offset.
7. Repeat above procedures until all frequency measured were complete.

9.3 Measurement Equipment Used:

Refer to section 7.3 for details.

Remark: as per KDB 662291, MIMO mode is accomplished by the addition of $10 \log(N)$, where $N=2$ as the simultaneous emission of PSD

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9.4 Measurement Result

802.11a, 5150~5250 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5180 | -2.54 | 3.07 | -5.61 |
| 5220 | -4.64 | 3.07 | -7.71 |
| 5240 | -3.69 | 3.07 | -6.76 |

802.11a, 5250~5350 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5260 | -2.54 | 10.07 | -12.61 |
| 5300 | -2.33 | 10.07 | -12.40 |
| 5320 | -4.91 | 10.07 | -14.98 |

802.11a, 5470~5725 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5500 | -3.67 | 9.02 | -12.69 |
| 5580 | -6.18 | 9.02 | -15.20 |
| 5700 | -4.34 | 9.02 | -13.36 |

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802.11n HT20, 5150~5250 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5180 | -6.55 | 3.07 | -9.62 |
| 5220 | -4.51 | 3.07 | -7.58 |
| 5240 | -3.98 | 3.07 | -7.05 |

802.11n HT20, 5250~5350 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5260 | -3.74 | 10.07 | -13.81 |
| 5300 | -1.11 | 10.07 | -11.18 |
| 5320 | -1.24 | 10.07 | -11.31 |

802.11n HT20, 5470~5725 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|------------|-------------|-------------|
| 5500 | -5.03 | 9.02 | -14.05 |
| 5580 | -4.48 | 9.02 | -13.50 |
| 5700 | -3.18 | 9.02 | -12.20 |

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802.11n HT40, 5150~5250 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|---------------|----------------|----------------|
| 5190 | -10.51 | 3.07 | -13.58 |
| 5230 | -8.25 | 3.07 | -11.32 |

802.11n HT40, 5250~5350 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|---------------|----------------|----------------|
| 5270 | -10.34 | 10.07 | -20.41 |
| 5310 | -10.21 | 10.07 | -20.28 |

802.11n HT40, 5470~5725 MHz

| Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|---------------|----------------|----------------|
| 5510 | -12.23 | 9.02 | -21.25 |
| 5590 | -11.22 | 9.02 | -20.24 |
| 5670 | -11.72 | 9.02 | -20.74 |

Note: Offset 11.4dB for 5GHz

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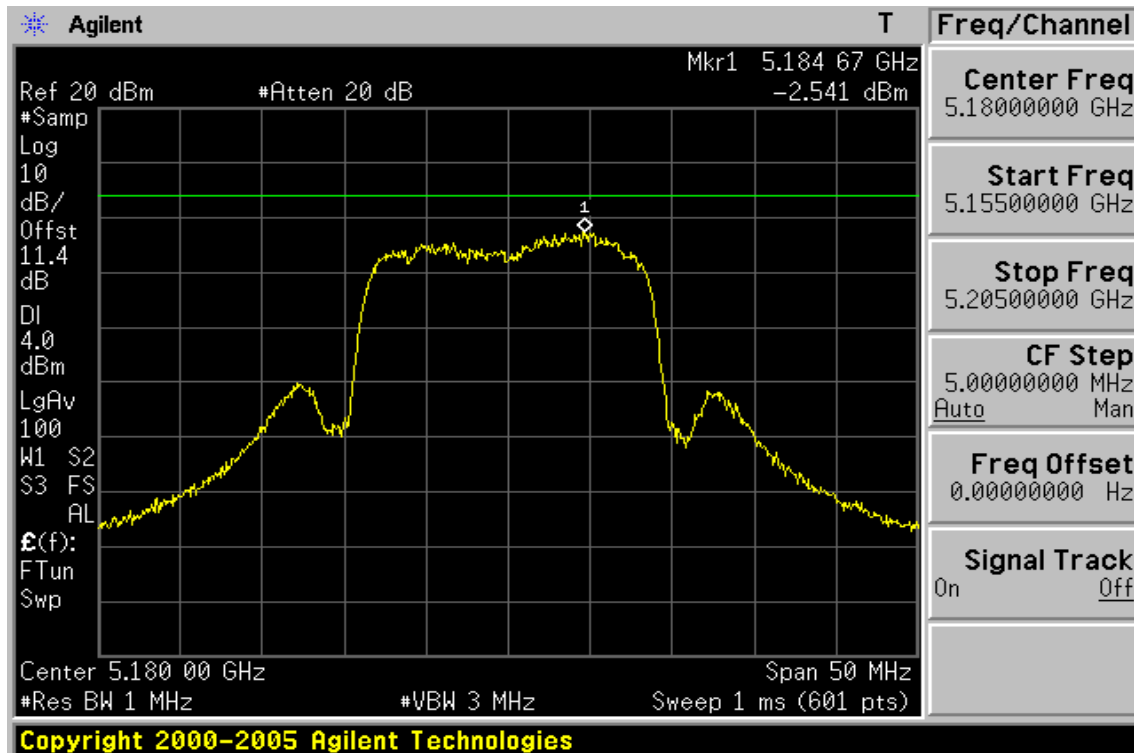
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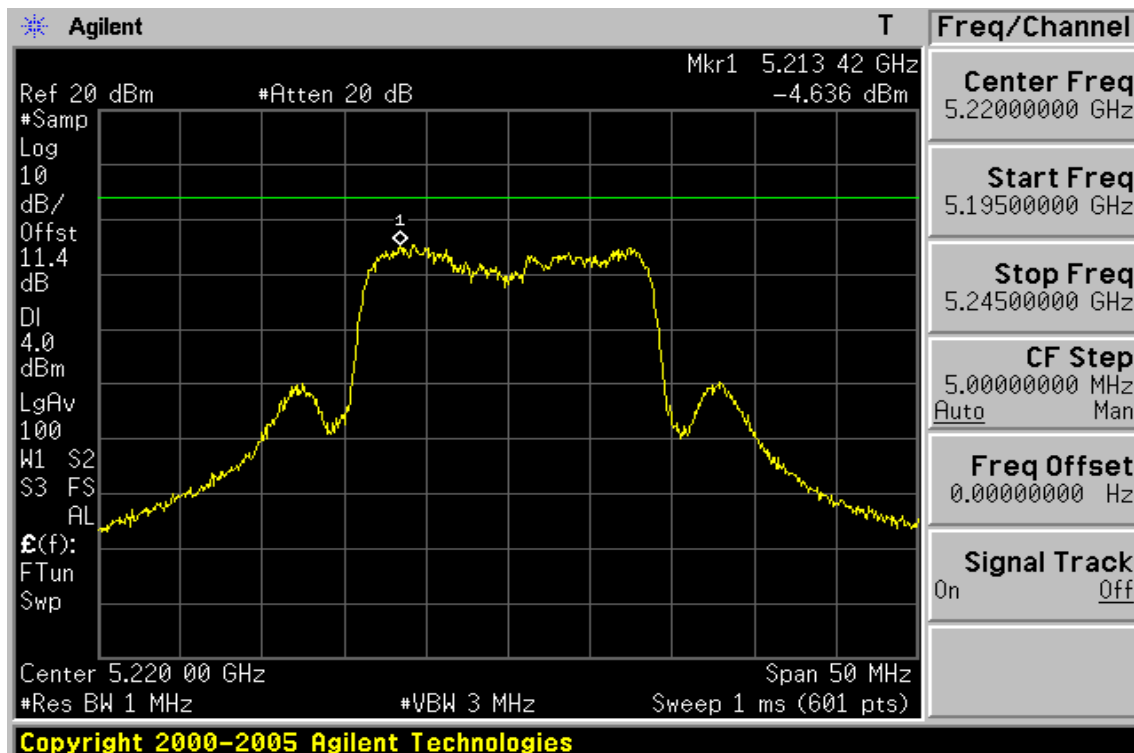
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802.11a, 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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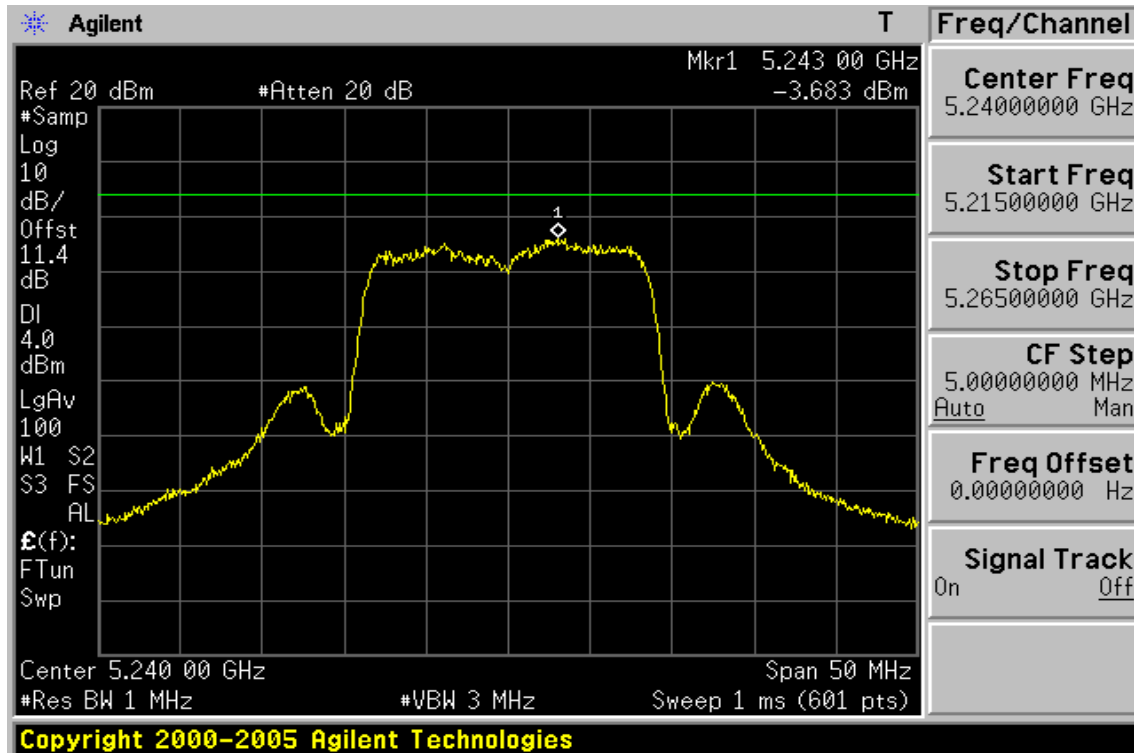
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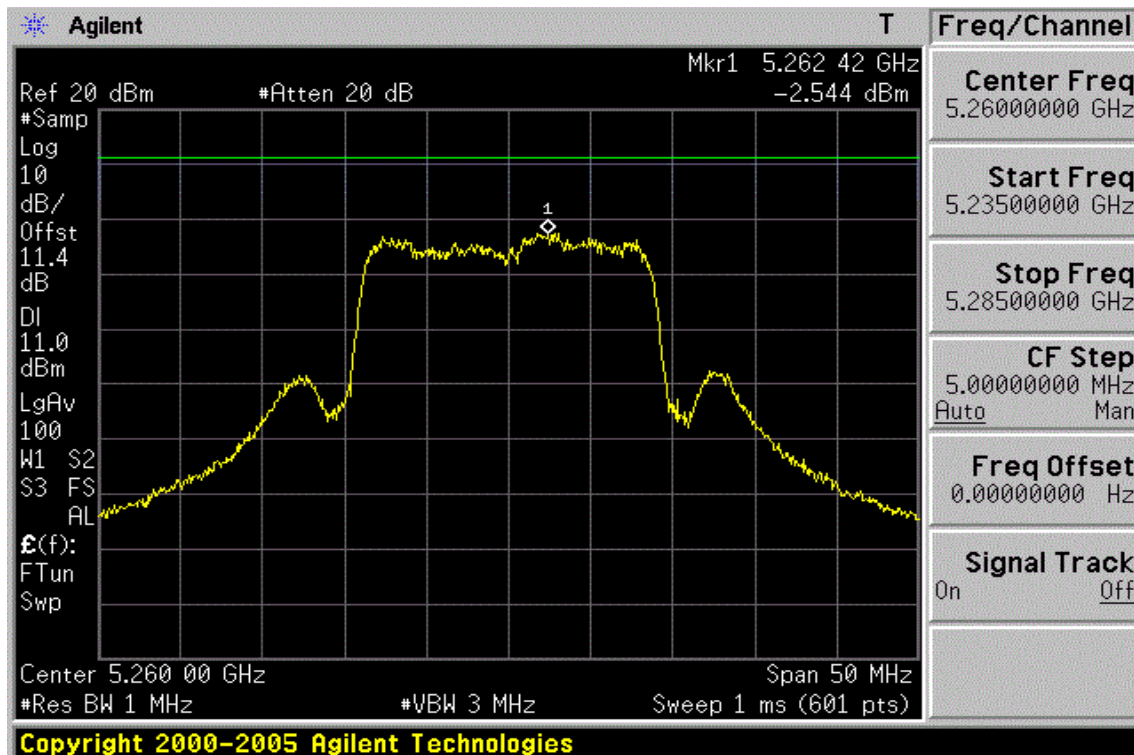
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Peak Power Spectral Density Data Plot (CH High 5240 MHz)



802.11a, 5250~5350 MHz

Peak Power Spectral Density Data Plot (CH Low 5260 MHz)



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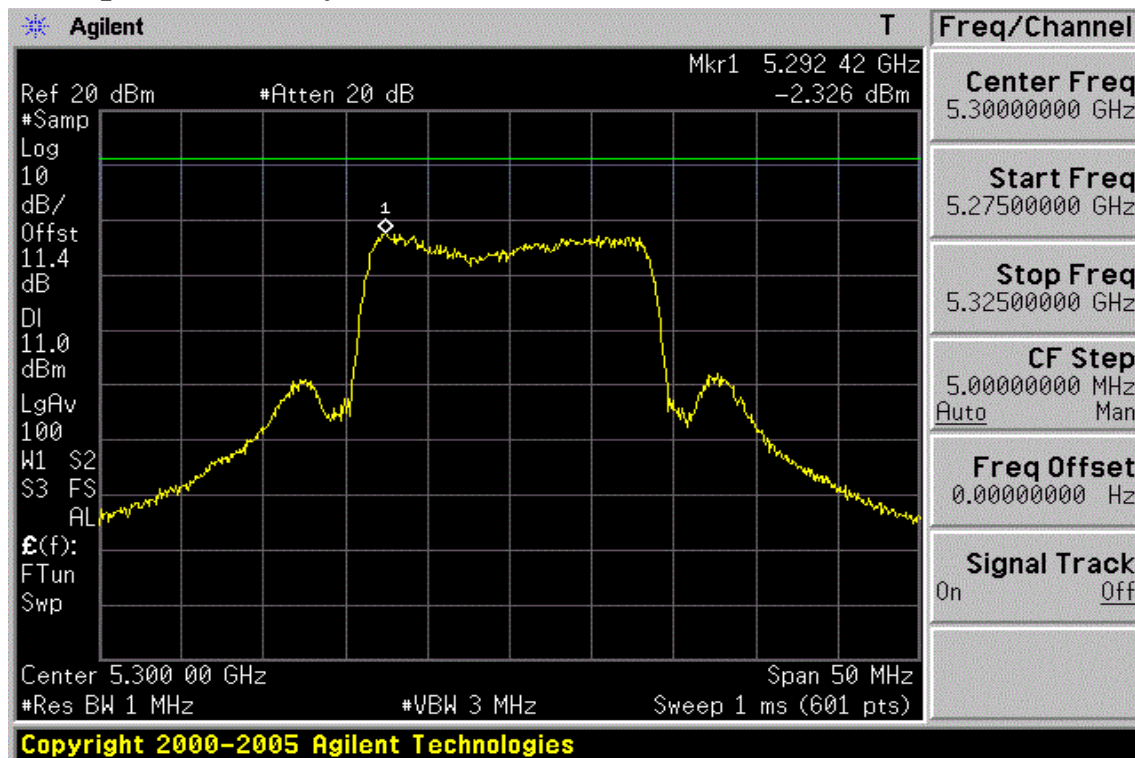
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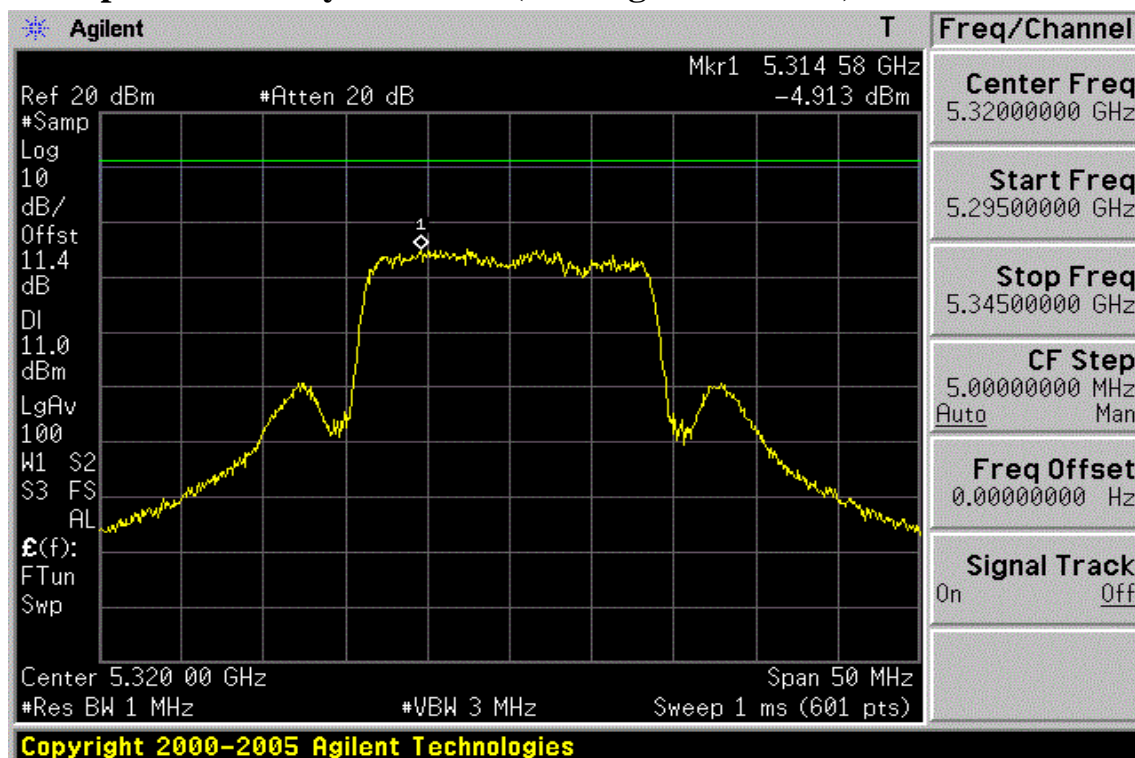
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Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)



Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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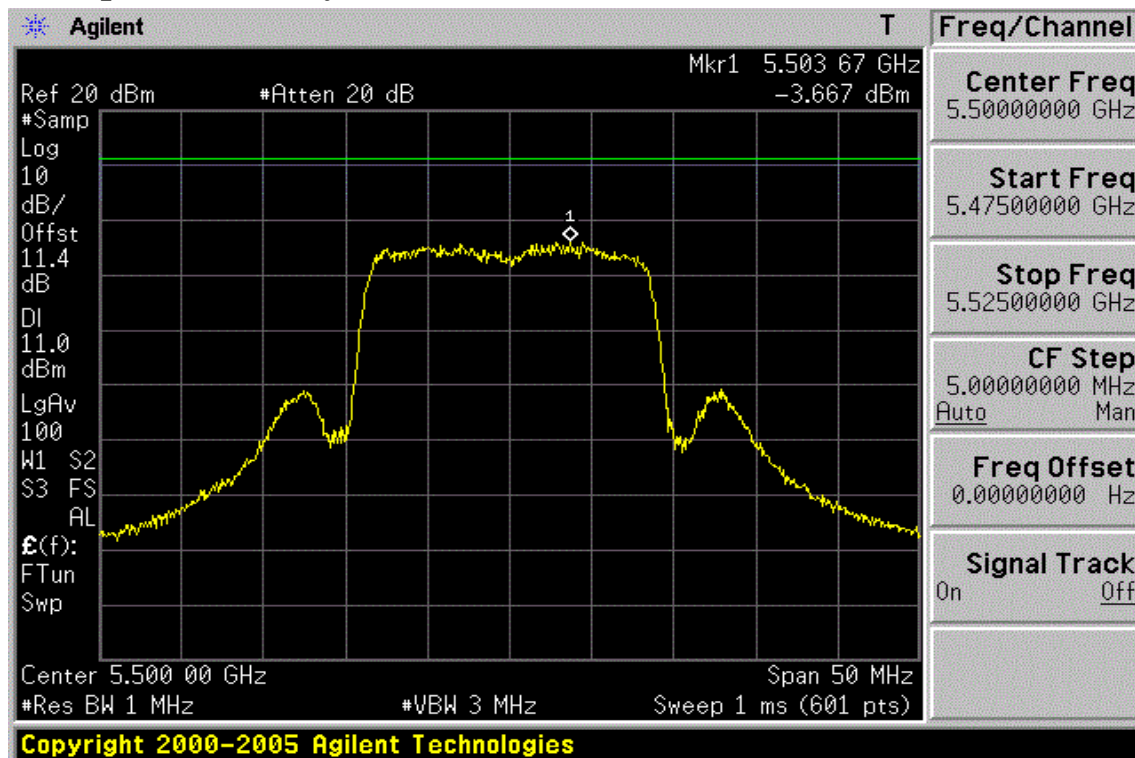
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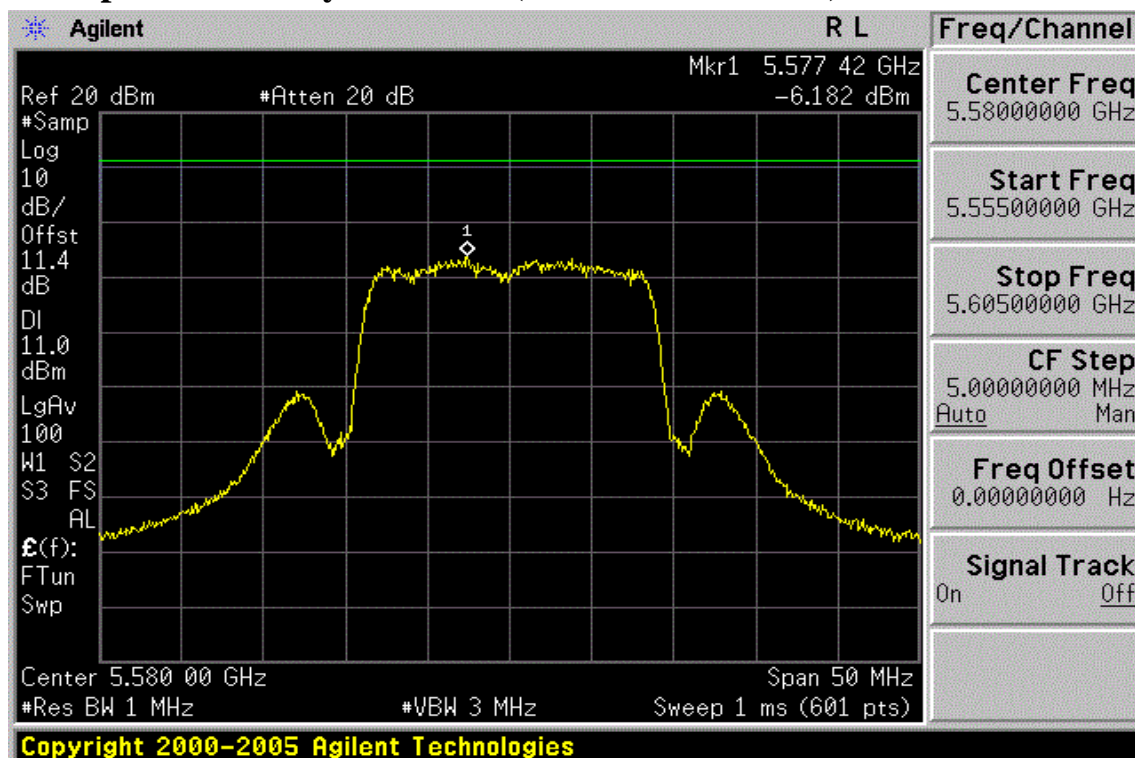
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802.11a, 5470~5725 MHz

Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5580 MHz)



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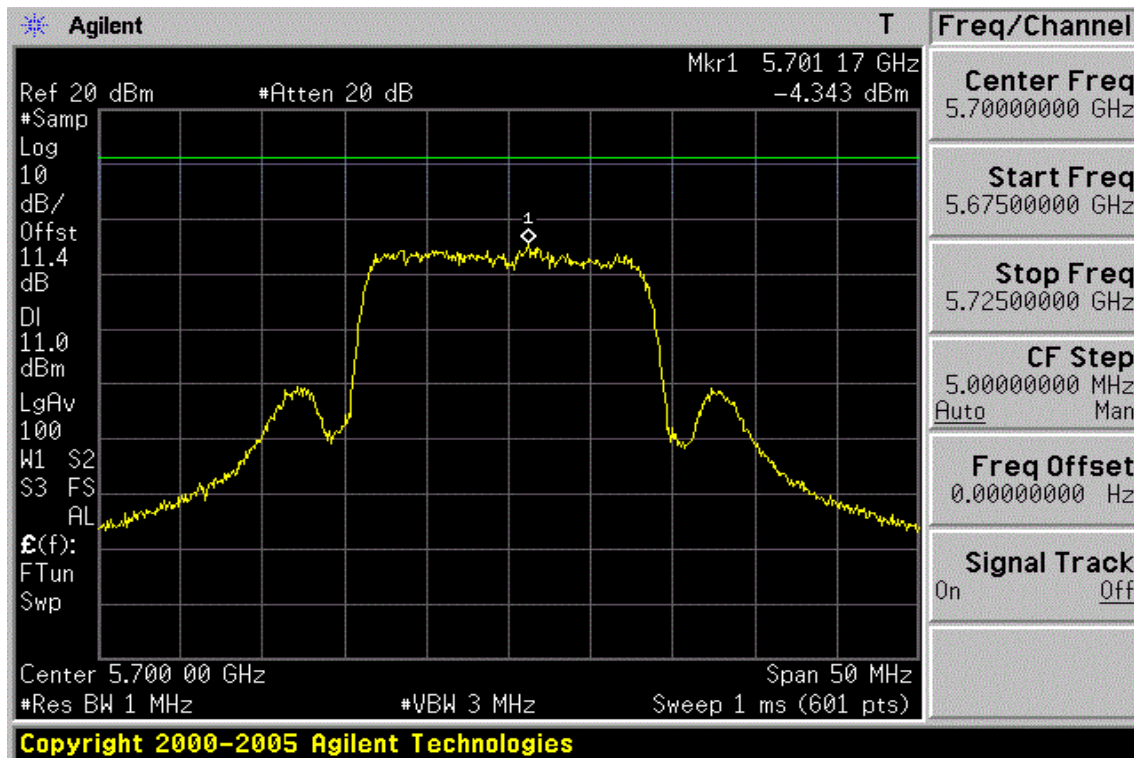
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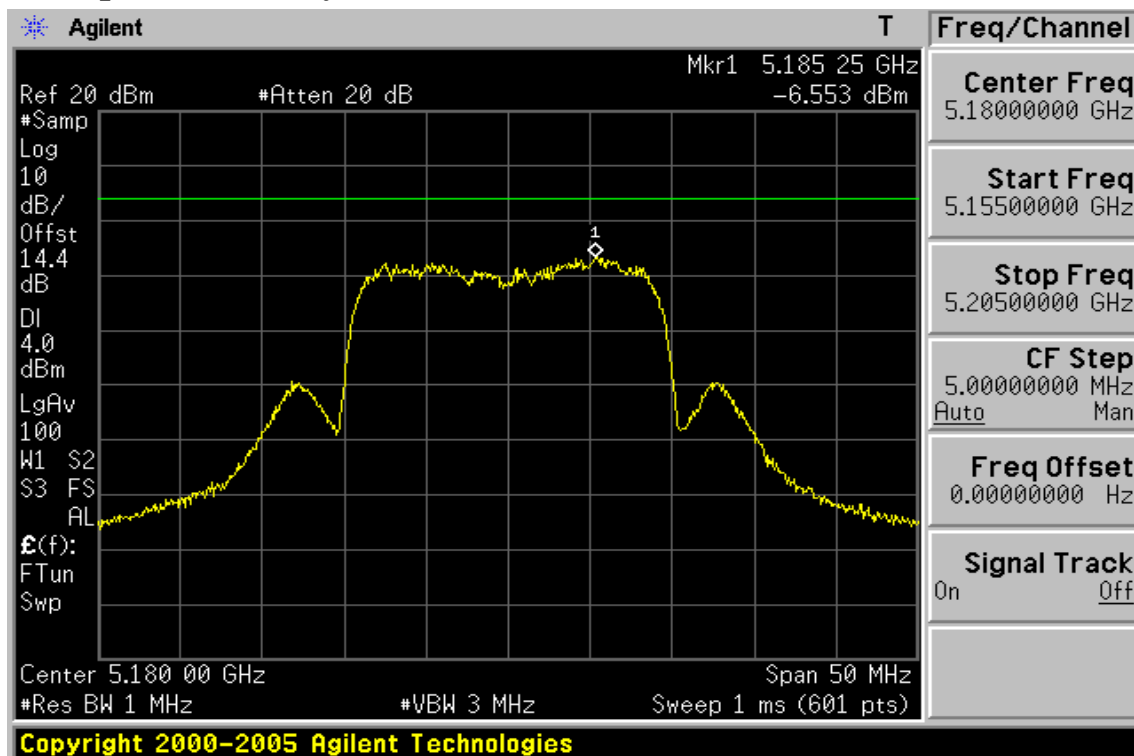
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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



802.11n HT20, 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



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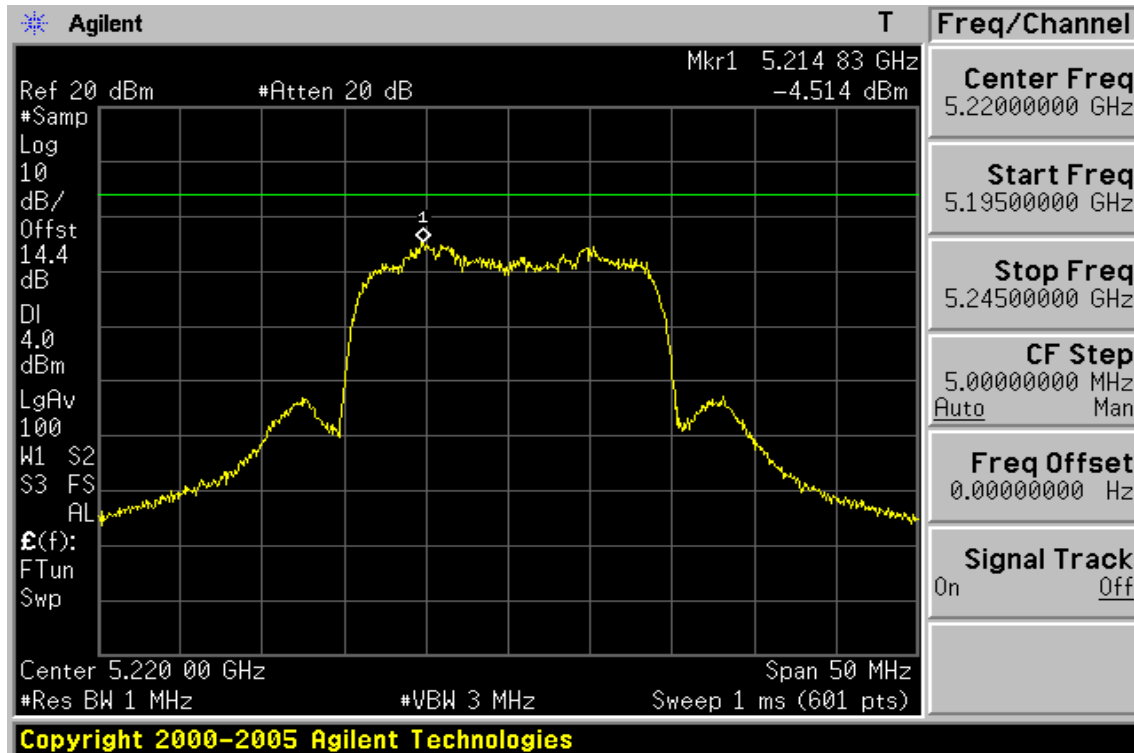
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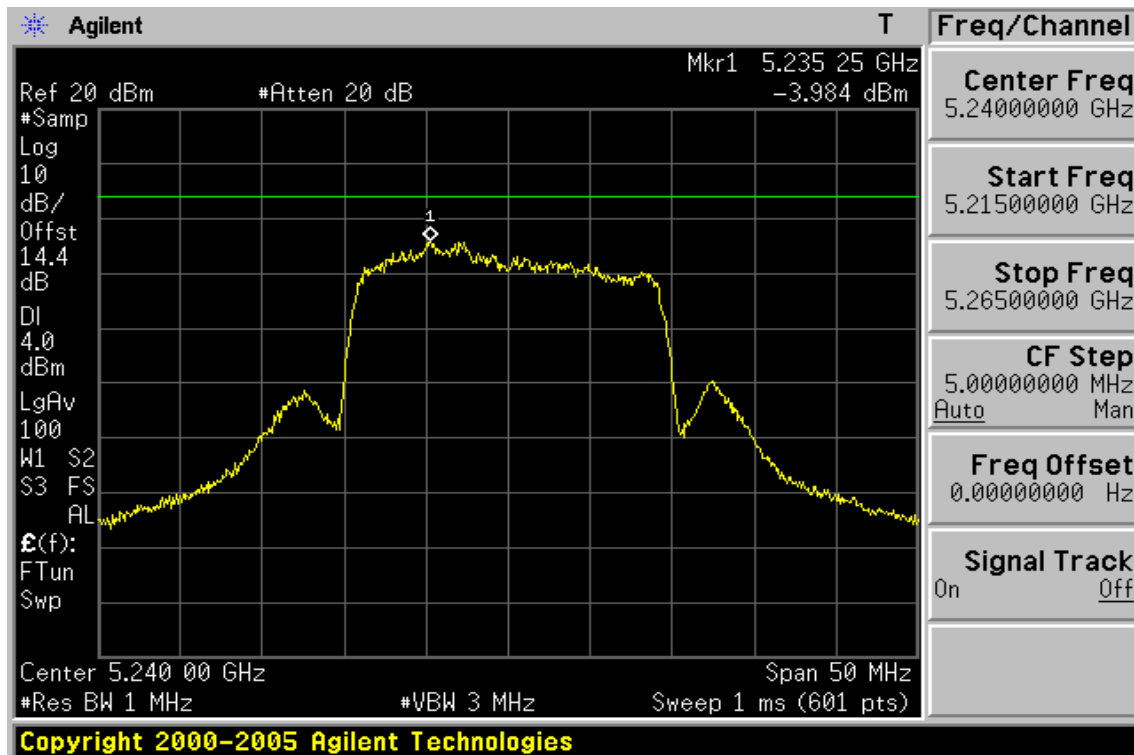
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Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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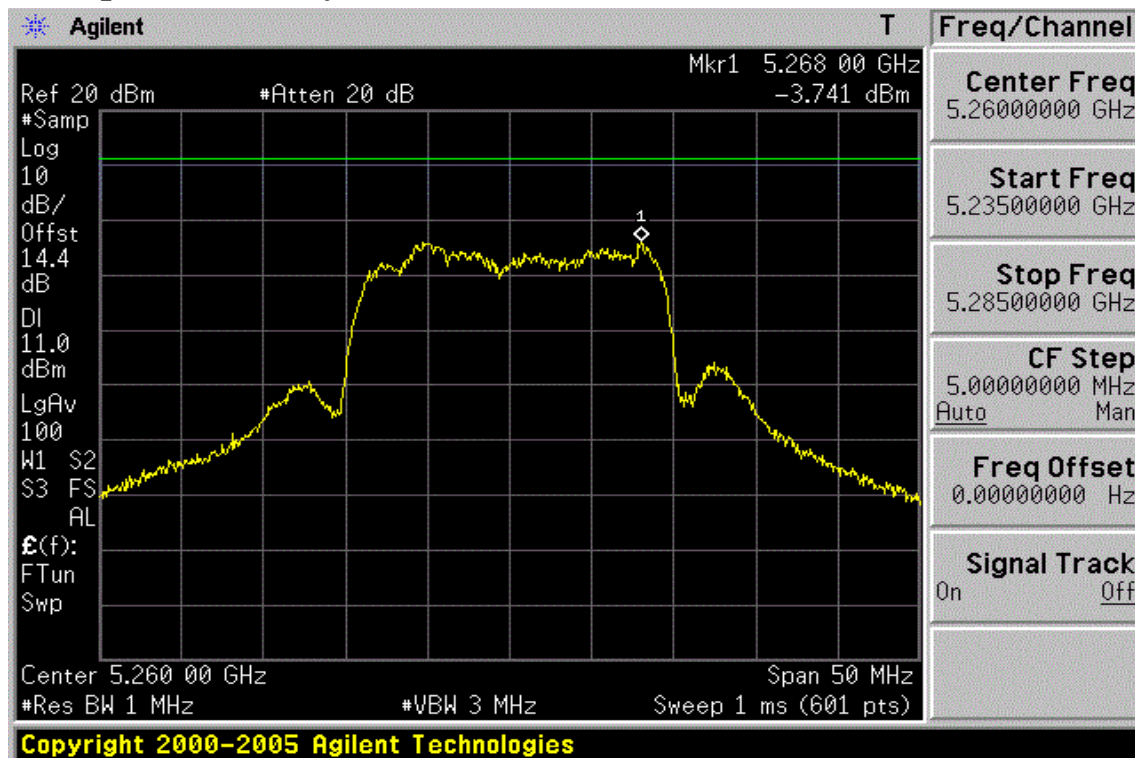
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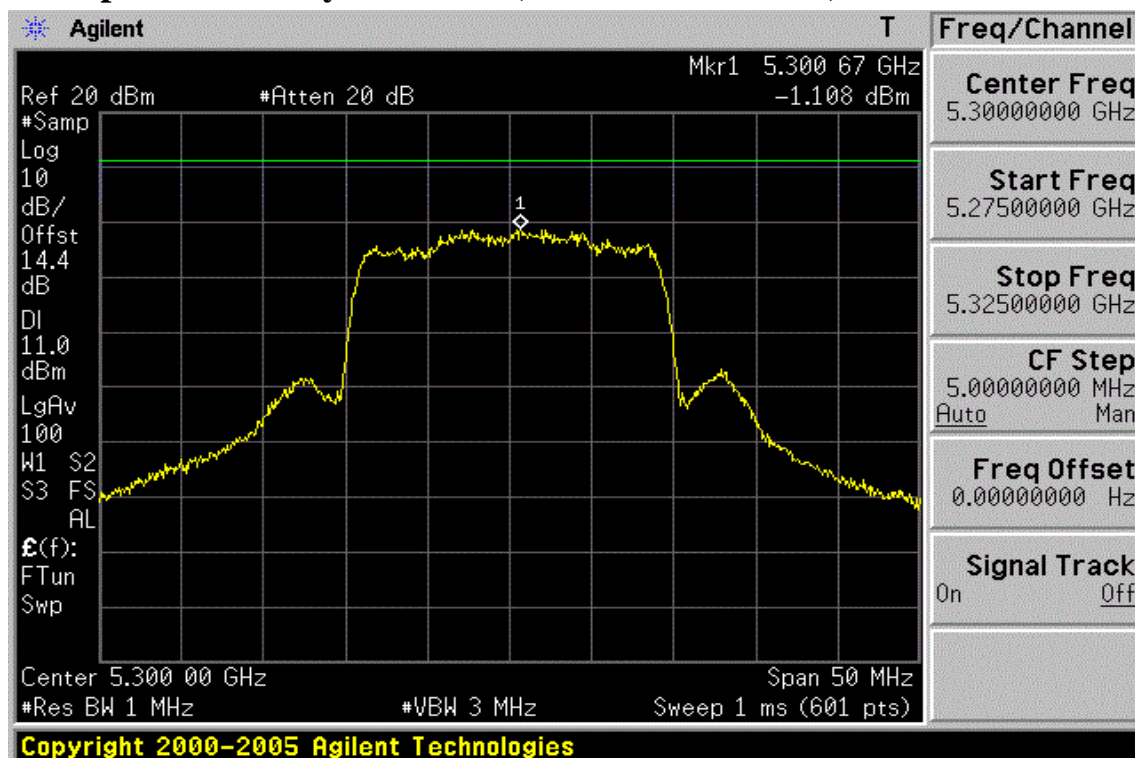
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802.11n HT20, 5250~5350 MHz

Peak Power Spectral Density Data Plot (CH Low 5260MHz)



Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)



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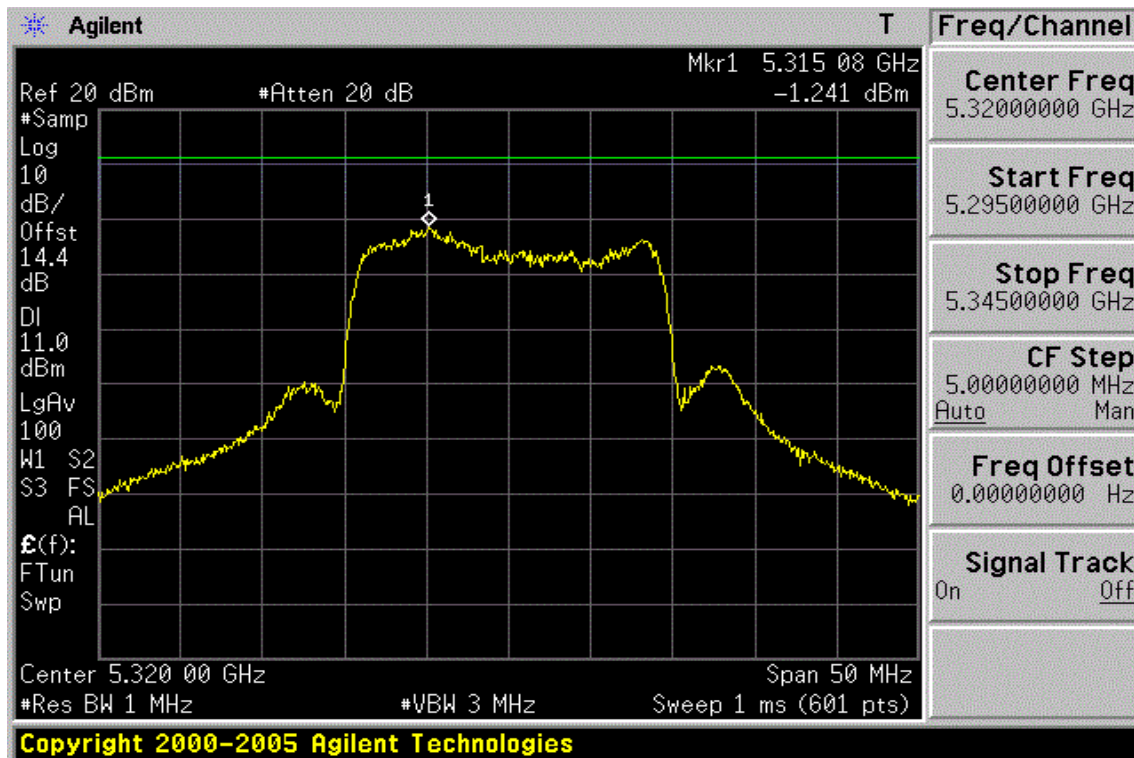
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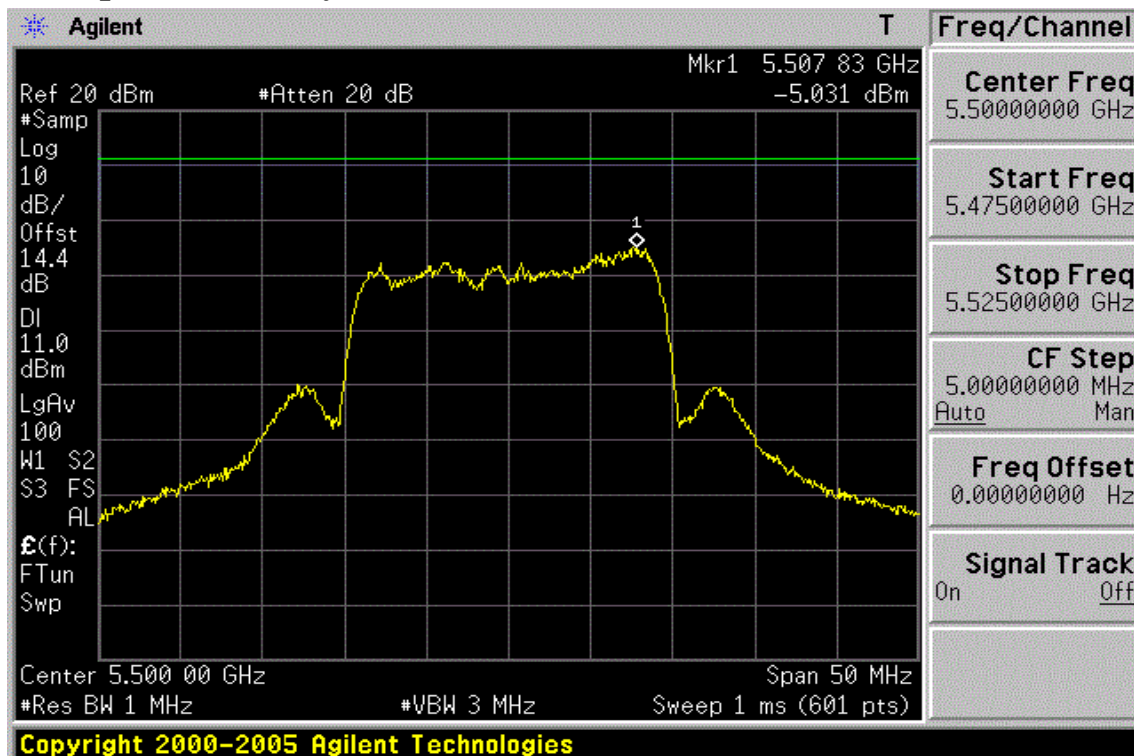
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Peak Power Spectral Density Data Plot (CH High 5320 MHz)



802.11n HT20, 5470~5725 MHz

Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



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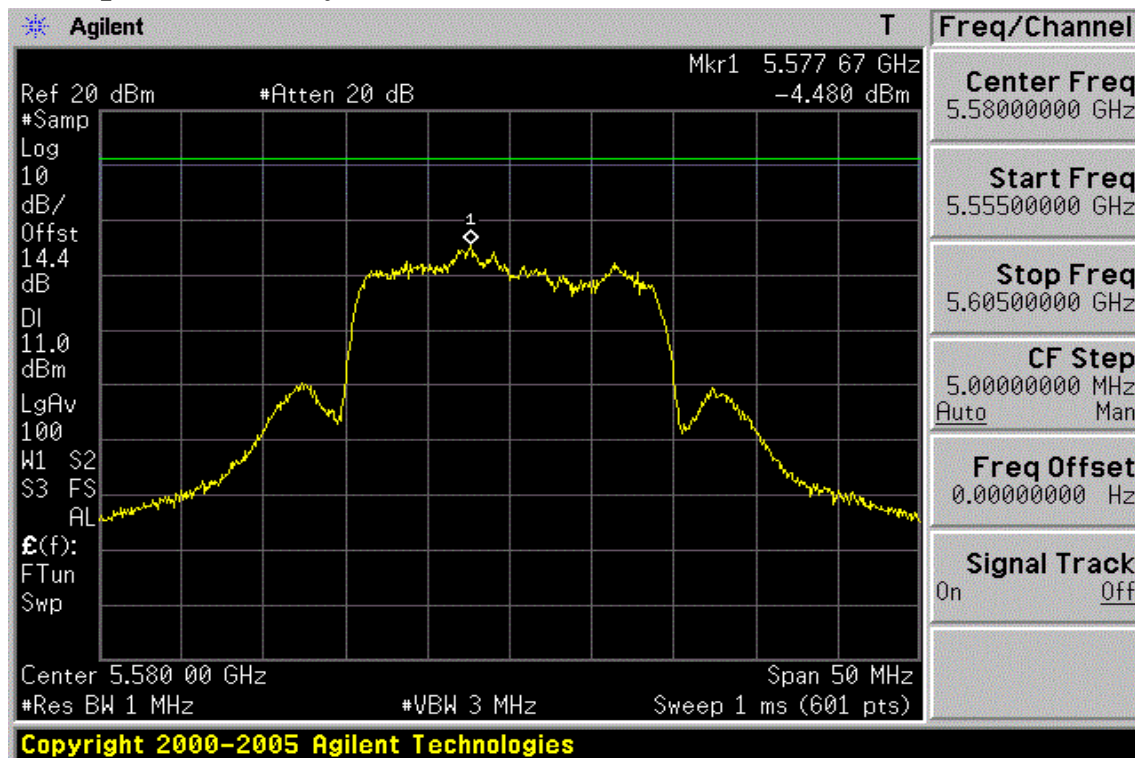
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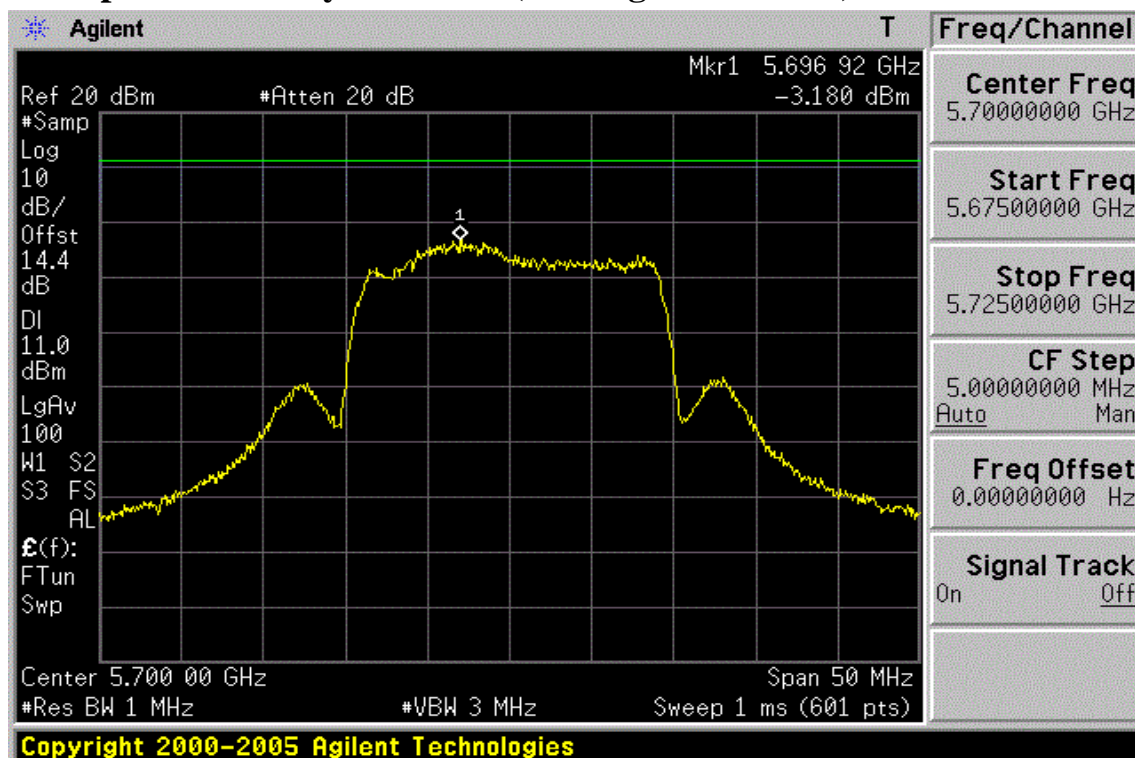
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Peak Power Spectral Density Data Plot (CH Mid 5580MHz)



Peak Power Spectral Density Data Plot (CH High 5700 MHz)



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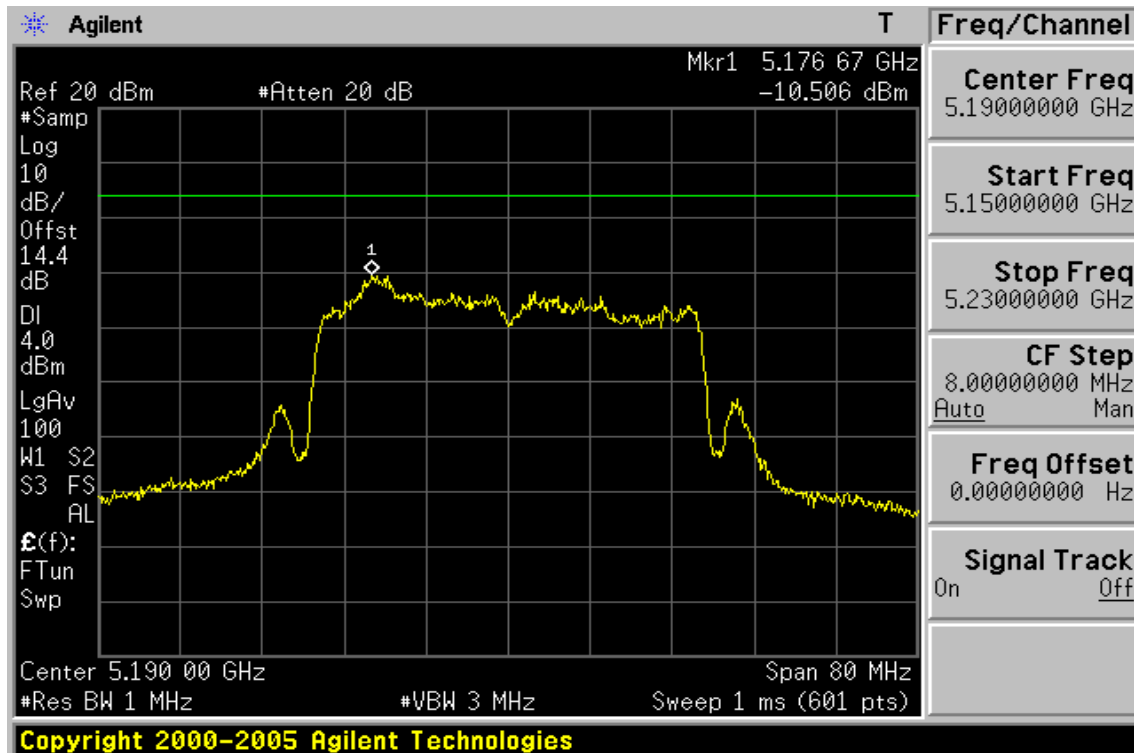
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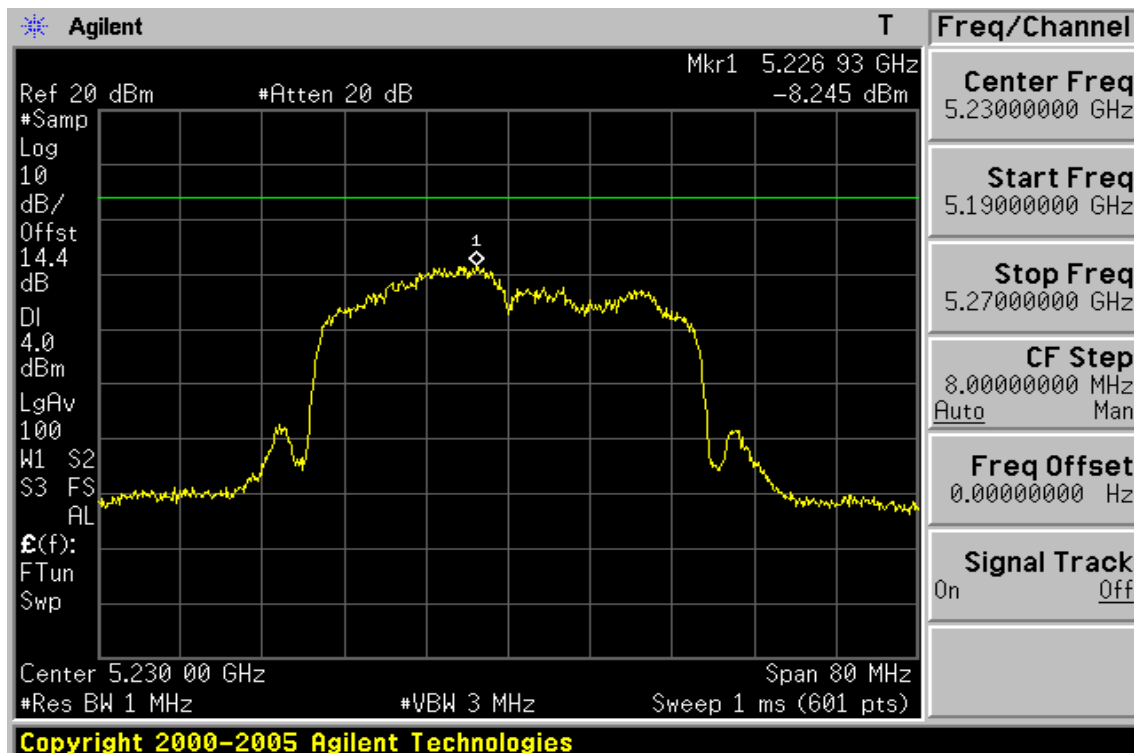
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802.11n HT40, 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Low 5190 MHz)



Peak Power Spectral Density Data Plot (CH High 5230 MHz)



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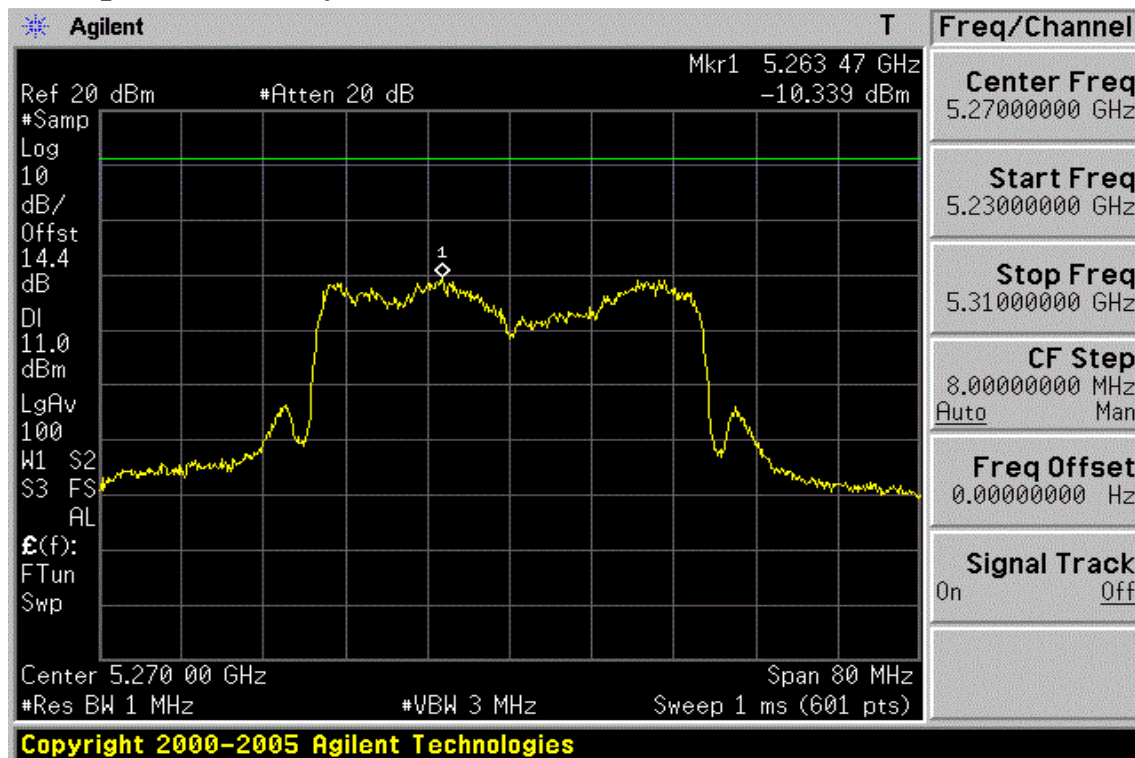
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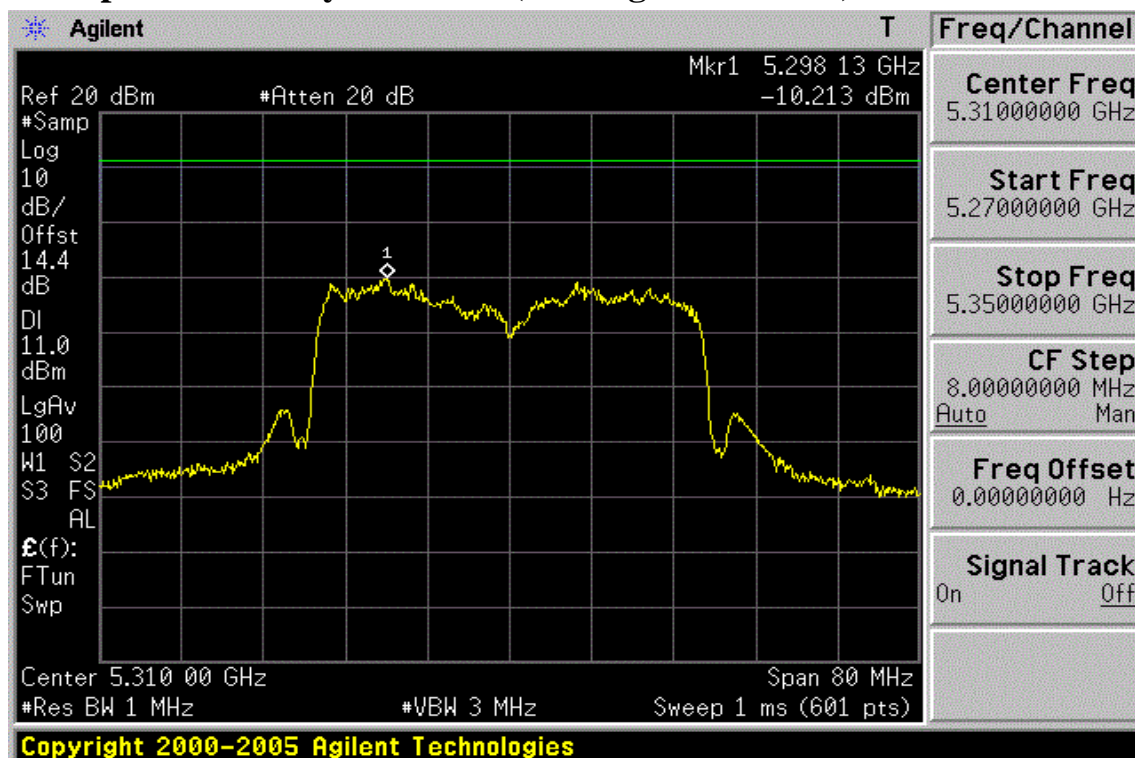
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802.11n HT40, 5250~5350 MHz

Peak Power Spectral Density Data Plot (CH Low 5270 MHz)



Peak Power Spectral Density Data Plot (CH High 5310 MHz)



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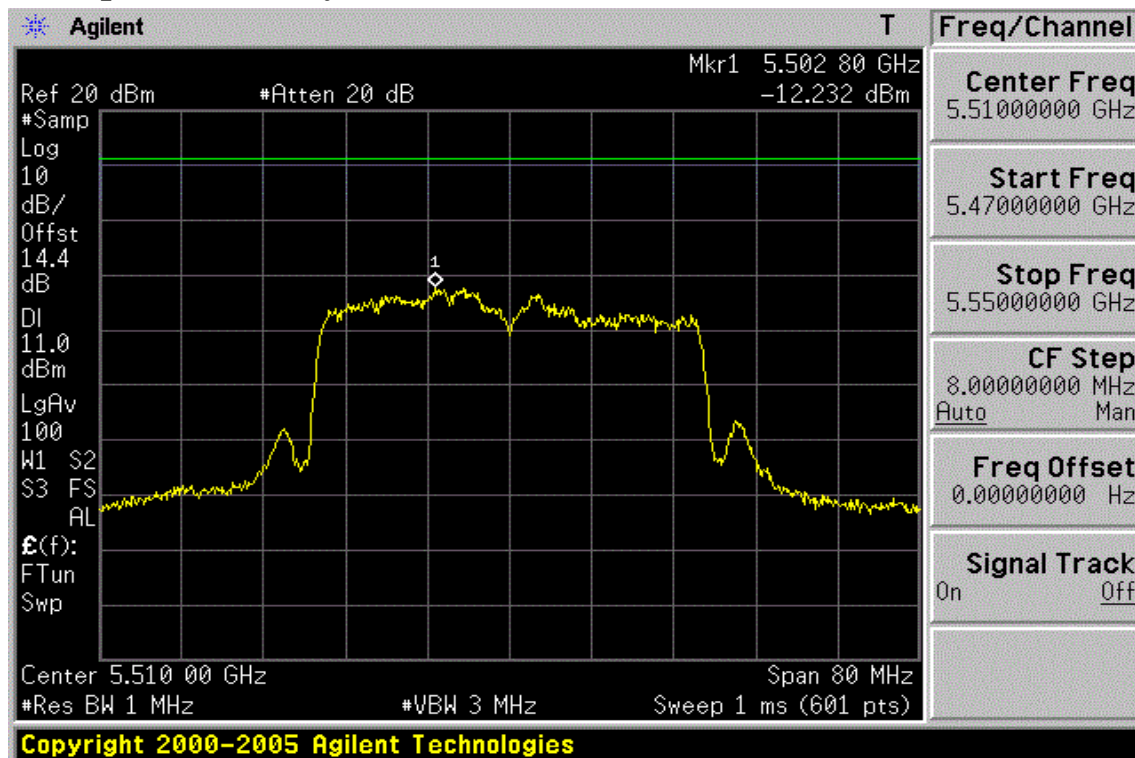
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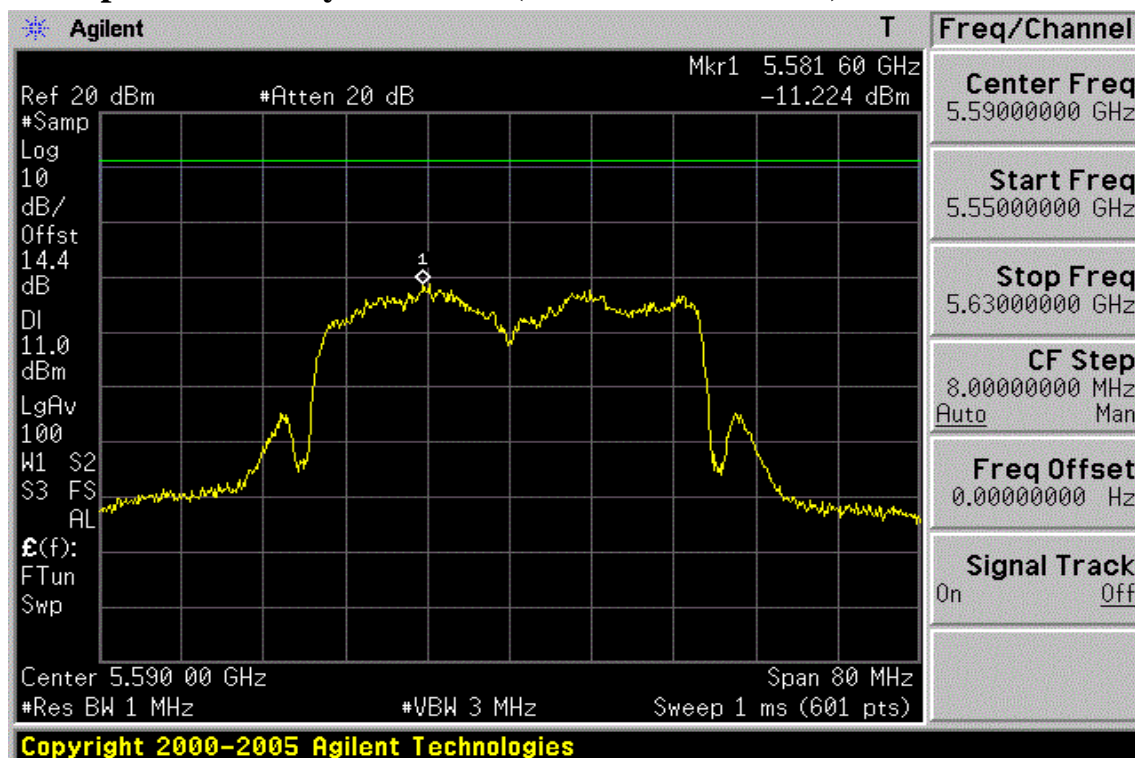
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802.11n HT40, 5470~5725 MHz

Peak Power Spectral Density Data Plot (CH Low 5510 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5590 MHz)



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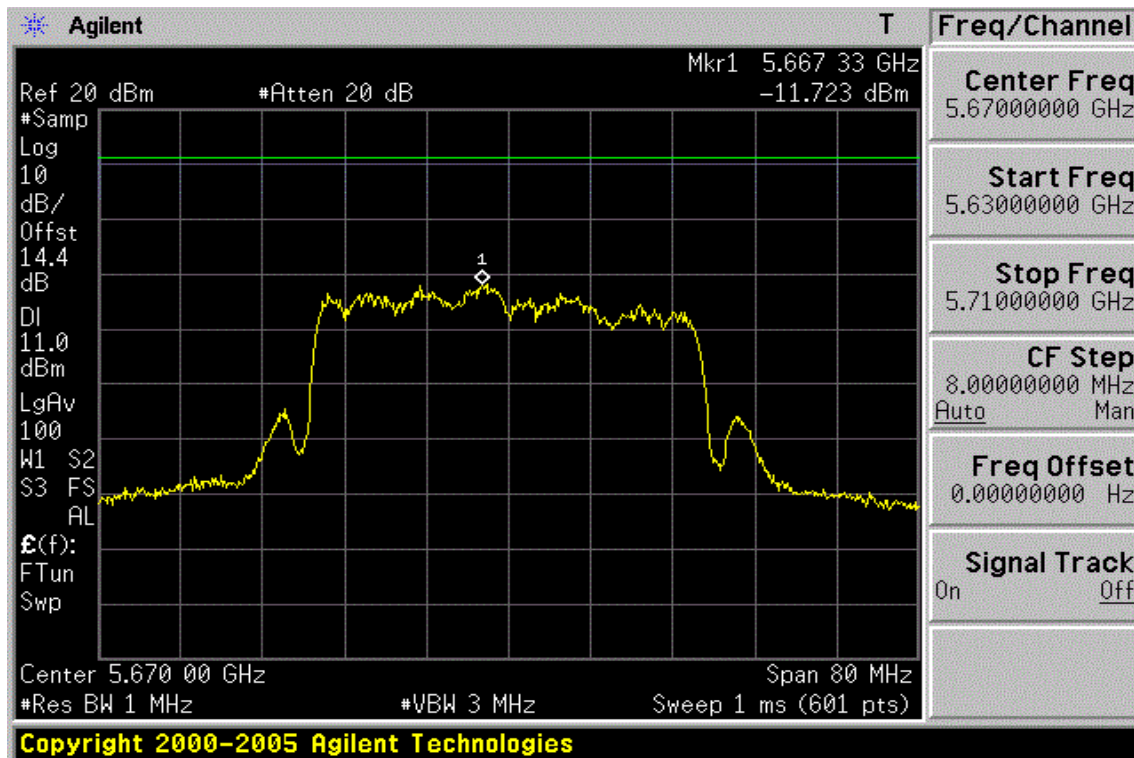
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Peak Power Spectral Density Data Plot (CH High 5670 MHz)



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10. PEAK EXCURSION MEASUREMENT

10.1 Standard Applicable

15.407(a)(6) The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

10.2 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 spectrum.
3. Trace A, Set RBW=1MHz, VBW = 3MHz, Span = 26dBc, Max. hold.
4. Trace B, Set RBW=1MHz, VBW = 30KHz, Span = 26dBc, Max. hold..
5. For MIMO mode, set offset = $10 \cdot \log(N)$ on Trace B
6. Delta Mark trace A center frequency and trace B center frequency.
7. Repeat above procedures until all frequency measured were complete.

10.3 Measurement Equipment Used:

Refer to section 7.3 for details.

Remark: as per KDB 662291, MIMO mode is accomplished by the addition of $10 \log(N)$, where $N = 2$ as the simultaneous emission of Peak Excursion.

10.4 Test Set-up:

Refer to section 7.4 for details.

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10.5 Test Results:

802.11a, 5150~5250 MHz

| Channel | Frequency (MHz) | Peak Excursion (dB) | Limit (dB) | Margin (dB) |
|---------|-----------------|---------------------|------------|-------------|
| Low | 5180 | 6.71 | 13.00 | -6.29 |
| Mid | 5220 | 6.49 | 13.00 | -6.51 |
| High | 5240 | 6.58 | 13.00 | -6.42 |

802.11a, 5250~5350 MHz

| Channel | Frequency (MHz) | Peak Excursion (dB) | Limit (dB) | Margin (dB) |
|---------|-----------------|---------------------|------------|-------------|
| Low | 5260 | 6.91 | 13.00 | -6.09 |
| Mid | 5300 | 6.88 | 13.00 | -6.12 |
| High | 5320 | 6.49 | 13.00 | -6.51 |

802.11a, 5470~5725 MHz

| Channel | Frequency (MHz) | Peak Excursion (dB) | Limit (dB) | Margin (dB) |
|---------|-----------------|---------------------|------------|-------------|
| Low | 5500 | 7.32 | 13.00 | -5.68 |
| Mid | 5580 | 6.71 | 13.00 | -6.29 |
| High | 5700 | 6.87 | 13.00 | -6.13 |

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802.11n HT20, 5150~5250 MHz

| Channel | Frequency (MHz) | Peak Excursion (dB) | Limit (dB) | Margin (dB) |
|---------|-----------------|---------------------|------------|-------------|
| Low | 5180 | 7.44 | 13.00 | -5.56 |
| Mid | 5220 | 7.82 | 13.00 | -5.18 |
| High | 5240 | 7.86 | 13.00 | -5.14 |

802.11n HT20, 5250~5350 MHz

| Channel | Frequency (MHz) | Peak Excursion (dB) | Limit (dB) | Margin (dB) |
|---------|-----------------|---------------------|------------|-------------|
| Low | 5260 | 7.15 | 13.00 | -5.85 |
| Mid | 5300 | 8.20 | 13.00 | -4.80 |
| High | 5320 | 8.51 | 13.00 | -4.49 |

802.11n HT20, 5470~5725 MHz

| Channel | Frequency (MHz) | Peak Excursion (dB) | Limit (dB) | Margin (dB) |
|---------|-----------------|---------------------|------------|-------------|
| Low | 5500 | 8.37 | 13.00 | -4.63 |
| Mid | 5580 | 7.70 | 13.00 | -5.30 |
| High | 5700 | 8.00 | 13.00 | -5.00 |

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802.11n HT40, 5150~5250 MHz

| Channel | Frequency (MHz) | Peak Excursion (dB) | Limit (dB) | Margin (dB) |
|---------|-----------------|---------------------|------------|-------------|
| Low | 5190 | 7.33 | 13.00 | -5.67 |
| High | 5230 | 8.09 | 13.00 | -4.91 |

802.11n HT40, 5250~5350 MHz

| Channel | Frequency (MHz) | Peak Excursion (dB) | Limit (dB) | Margin (dB) |
|---------|-----------------|---------------------|------------|-------------|
| Low | 5270 | 8.47 | 13.00 | -4.53 |
| High | 5310 | 8.14 | 13.00 | -4.86 |

802.11n HT40, 5470~5725 MHz

| Channel | Frequency (MHz) | Peak Excursion (dB) | Limit (dB) | Margin (dB) |
|---------|-----------------|---------------------|------------|-------------|
| Low | 5510 | 8.69 | 13.00 | -4.31 |
| Mid | 5590 | 8.47 | 13.00 | -4.53 |
| High | 5670 | 8.15 | 13.00 | -4.85 |

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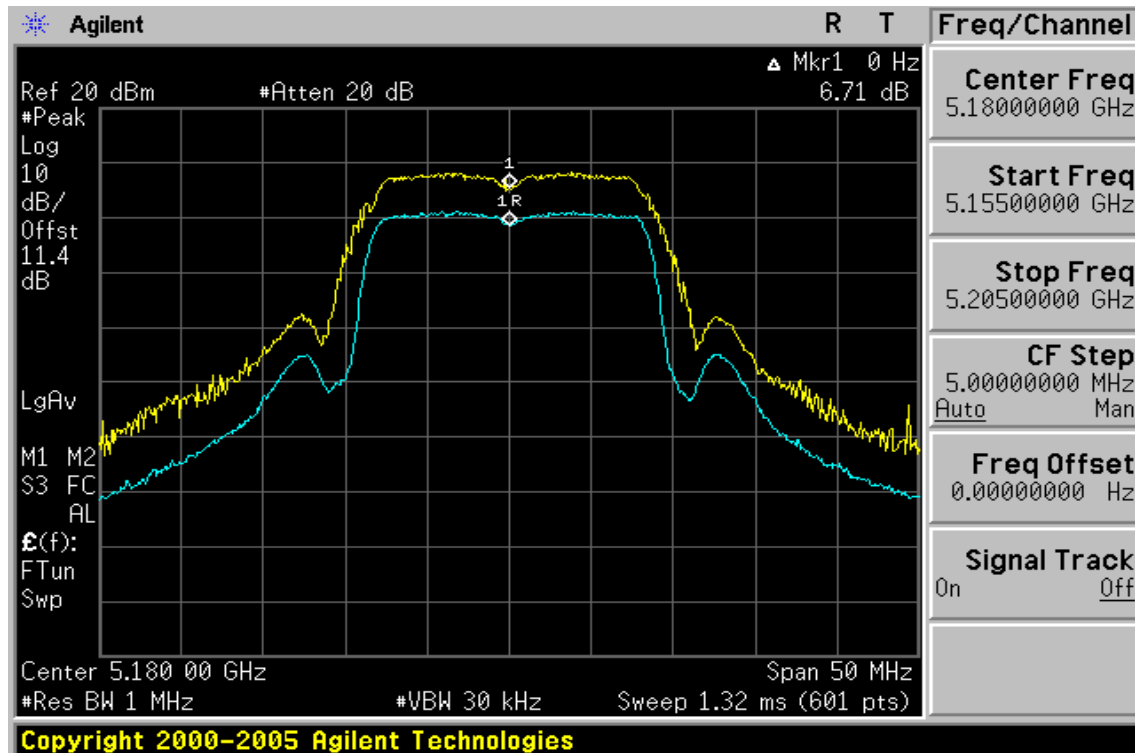
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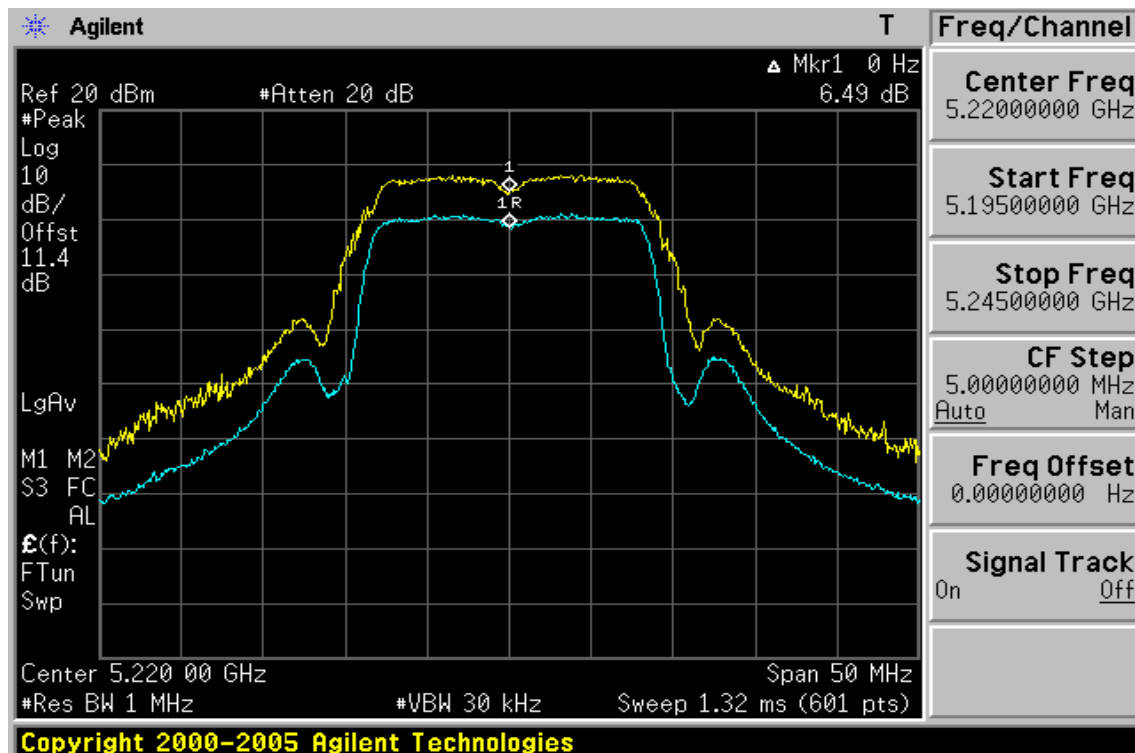
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802.11a, 5150~5250 MHz

Peak Excursion Data Plot (CH Low 5180 MHz)



Peak Excursion Data Plot (CH Mid 5220 MHz)



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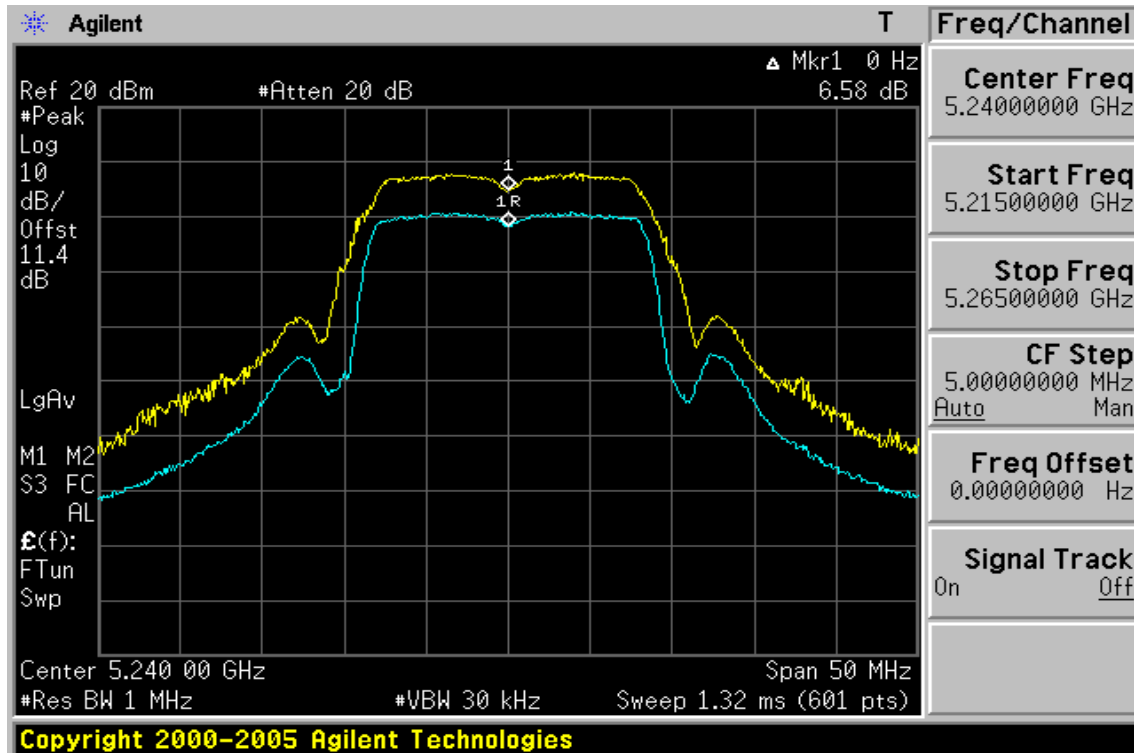
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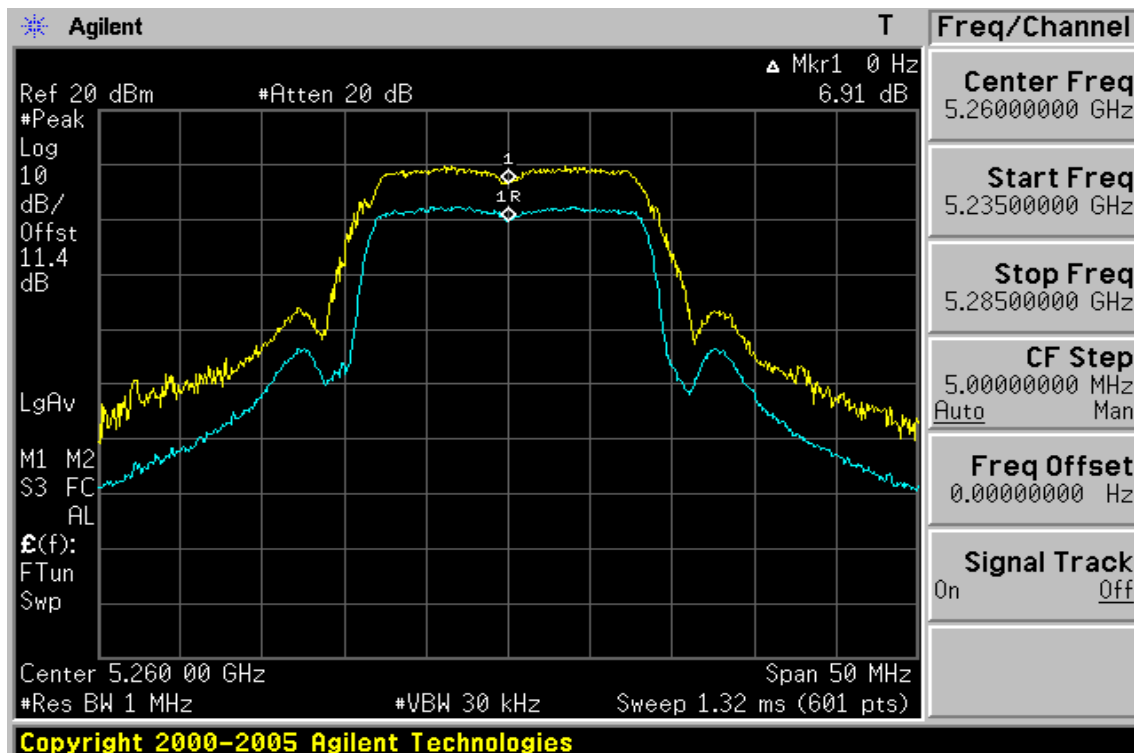
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Peak Excursion Data Plot (CH High 5240 MHz)



802.11a, 5250~5350 MHz

Peak Excursion Data Plot (CH Low 5260 MHz)



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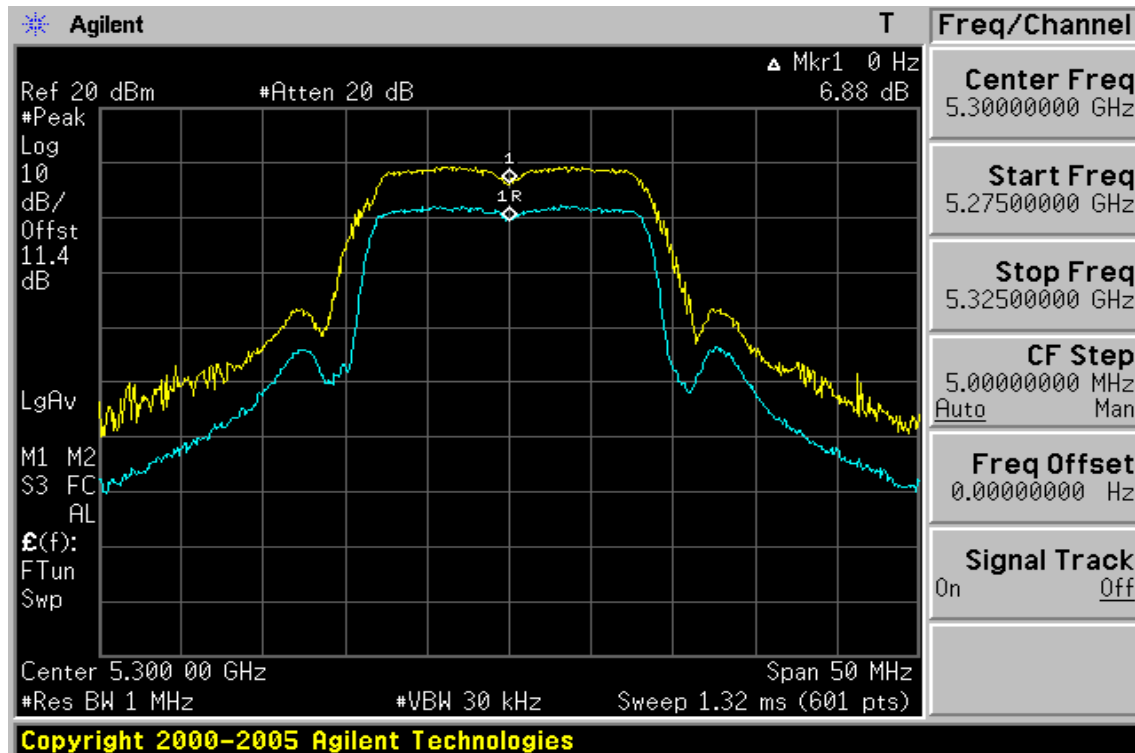
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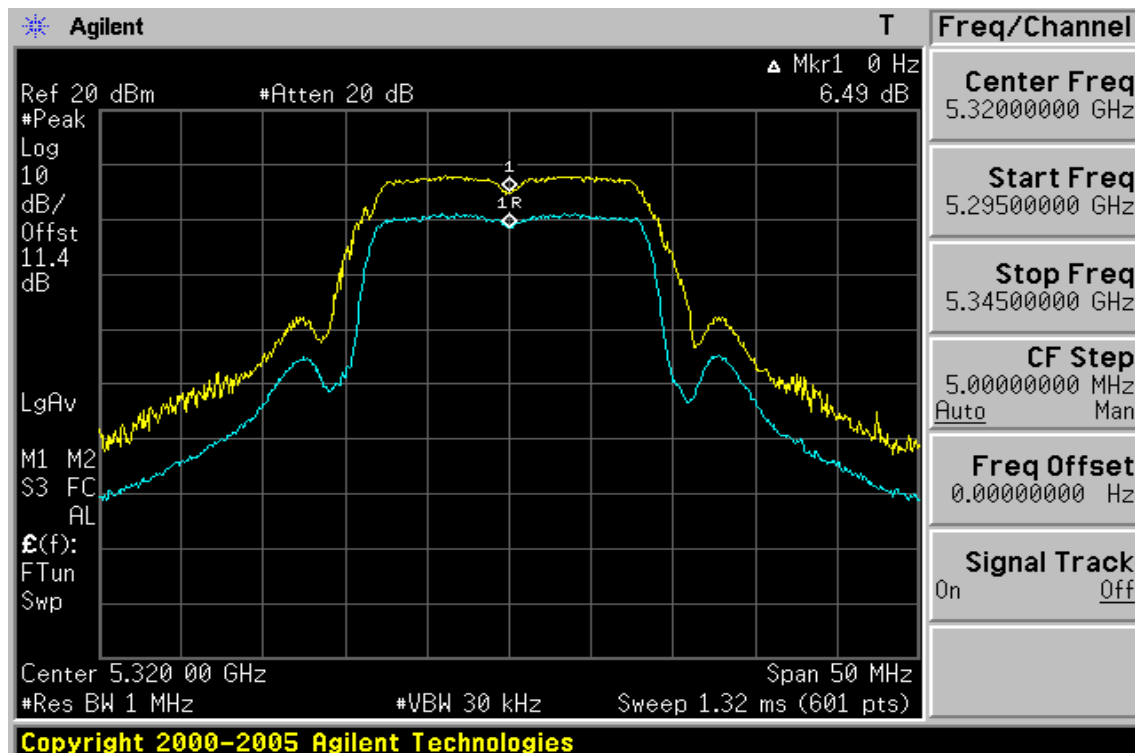
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Peak Excursion Data Plot (CH Mid 5300 MHz)



Peak Excursion Data Plot (CH High 5320 MHz)



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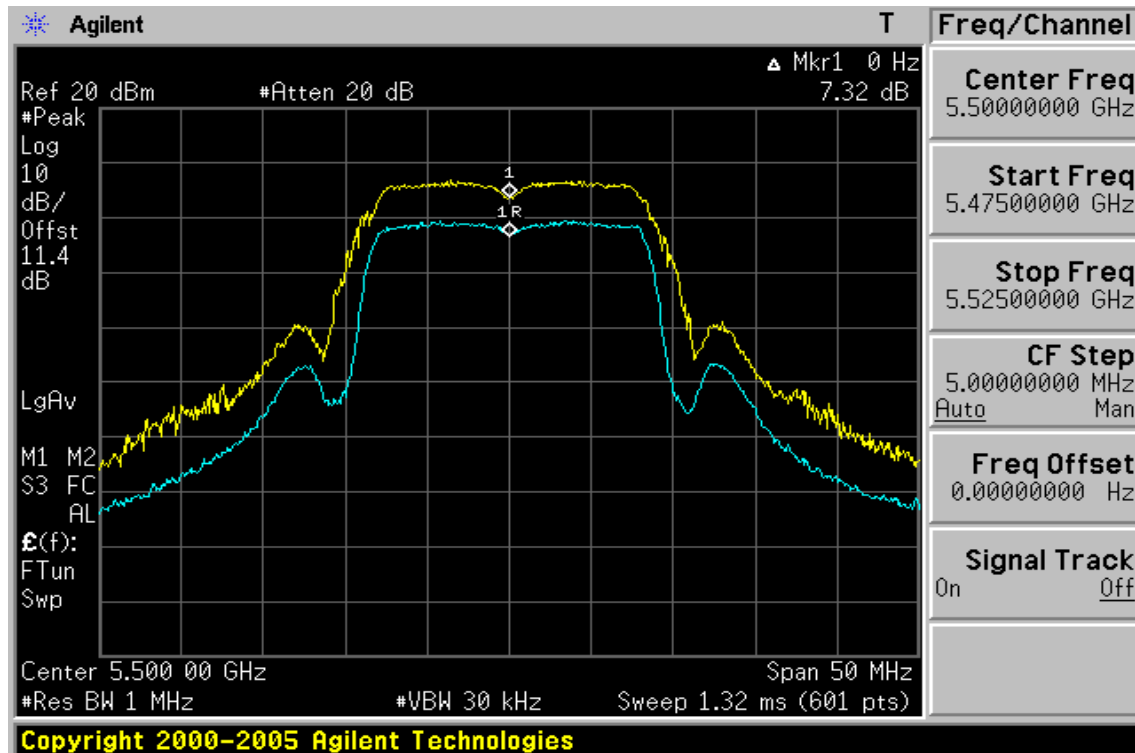
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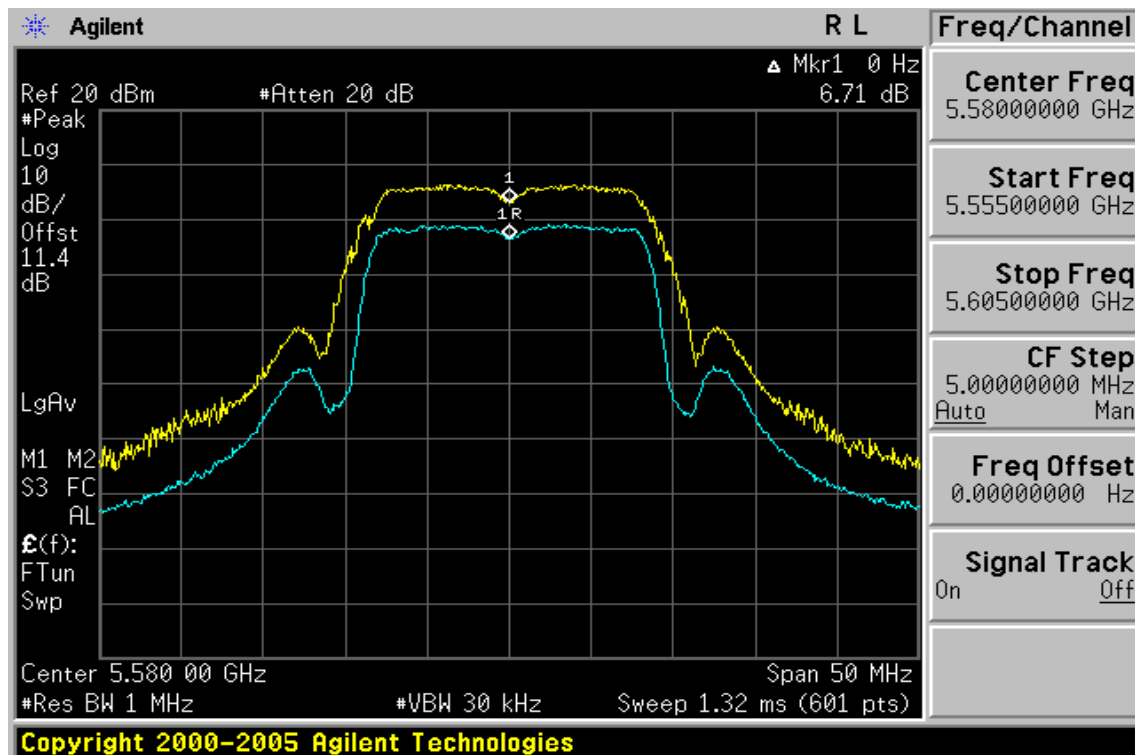
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802.11a, 5470~5725 MHz

Peak Excursion Data Plot (CH Low 5500 MHz)



Peak Excursion Data Plot (CH Mid 5580 MHz)



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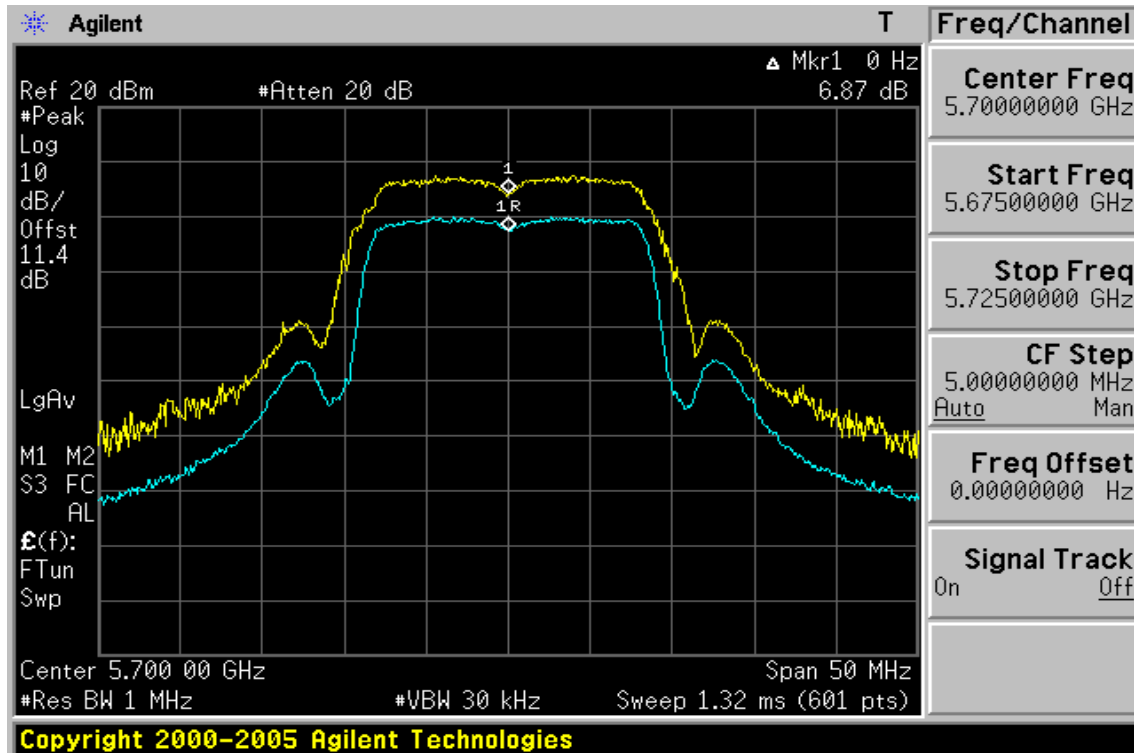
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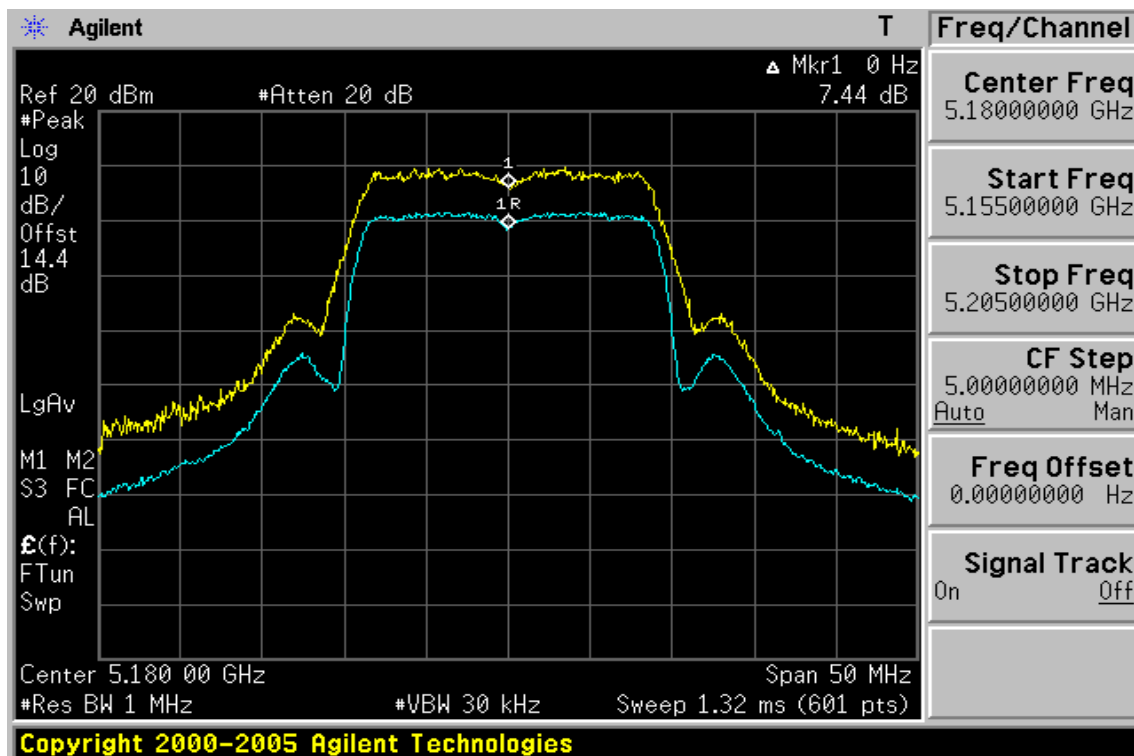
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Peak Excursion Data Plot (CH High 5700 MHz)



802.11n HT20, 5150~5250 MHz

Peak Excursion Data Plot (CH Low 5180 MHz)



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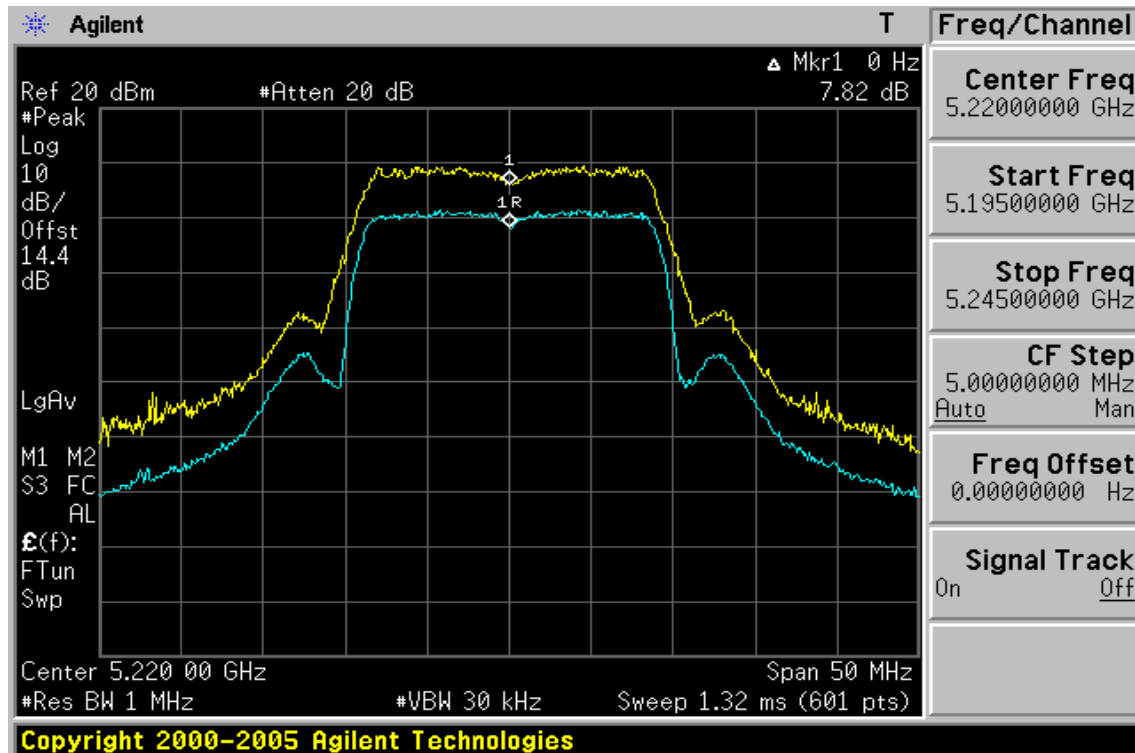
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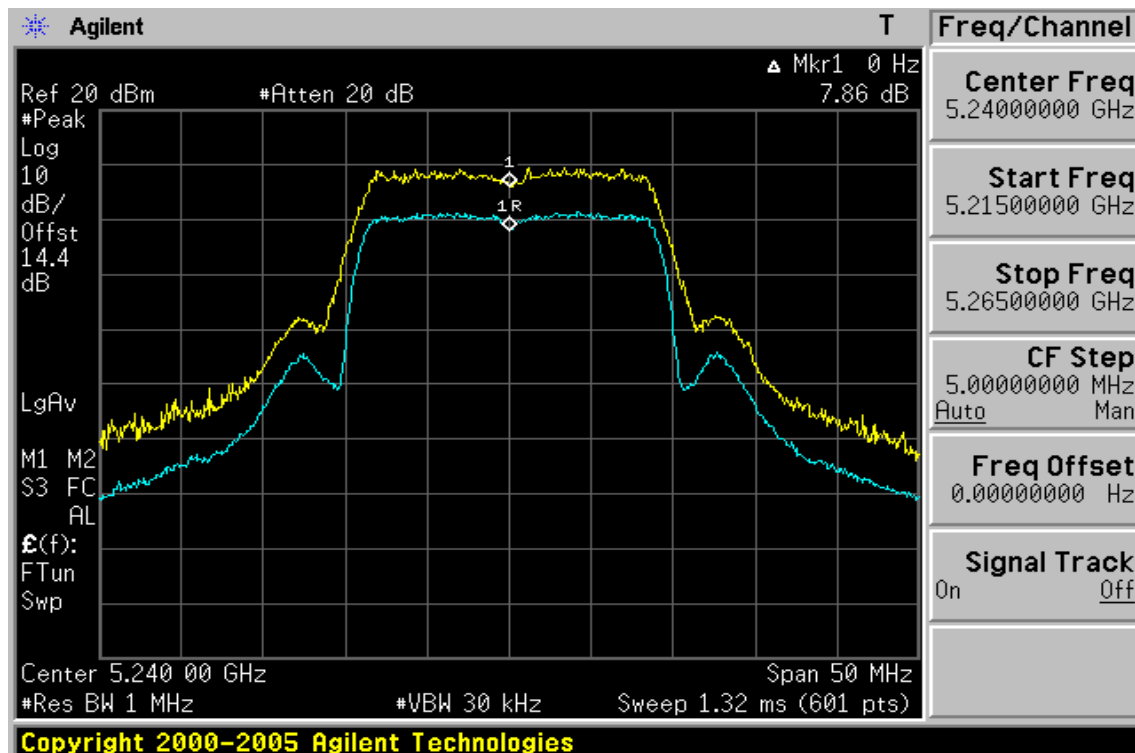
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Peak Excursion Data Plot (CH Mid 5220 MHz)



Peak Excursion Data Plot (CH High 5240 MHz)



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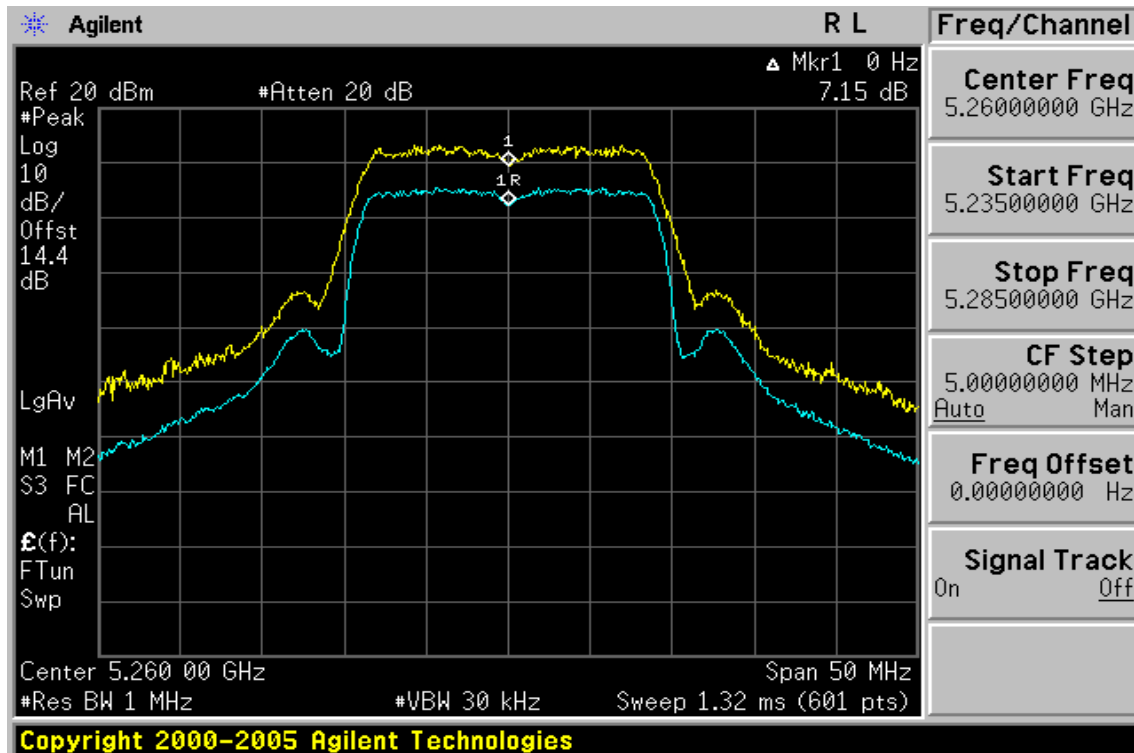
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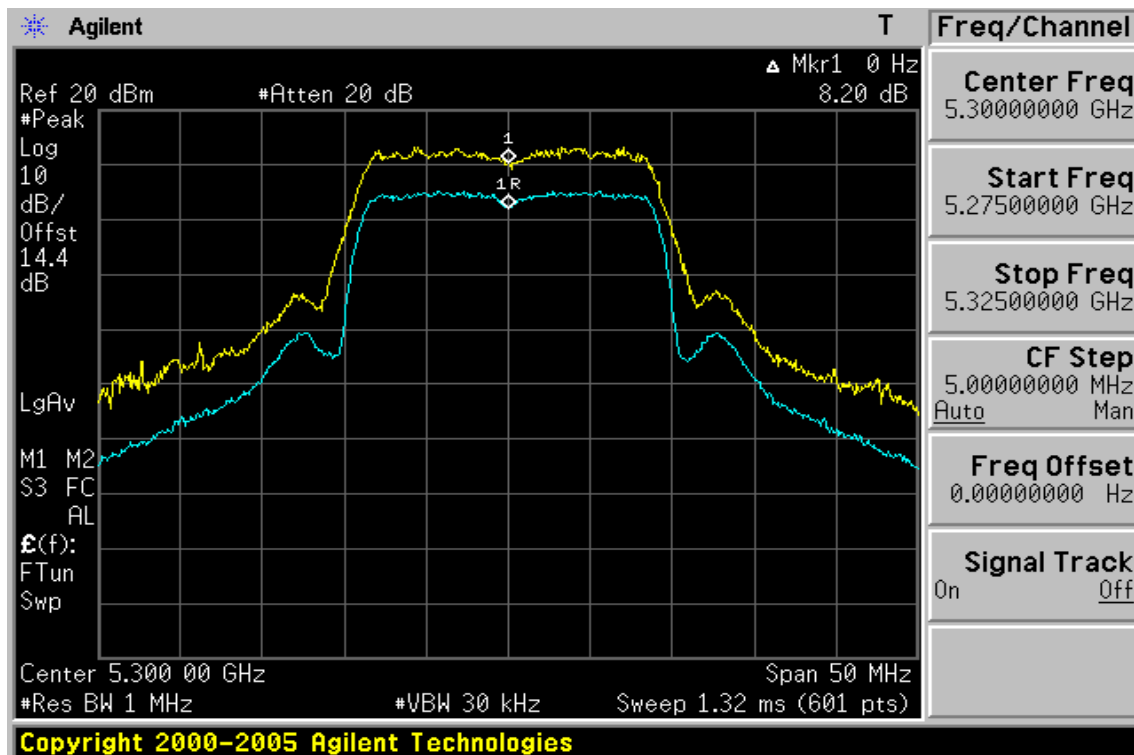
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802.11n HT20, 5250~5350 MHz

Peak Excursion Data Plot (CH Low 5260MHz)



Peak Excursion Data Plot (CH Mid 5300MHz)



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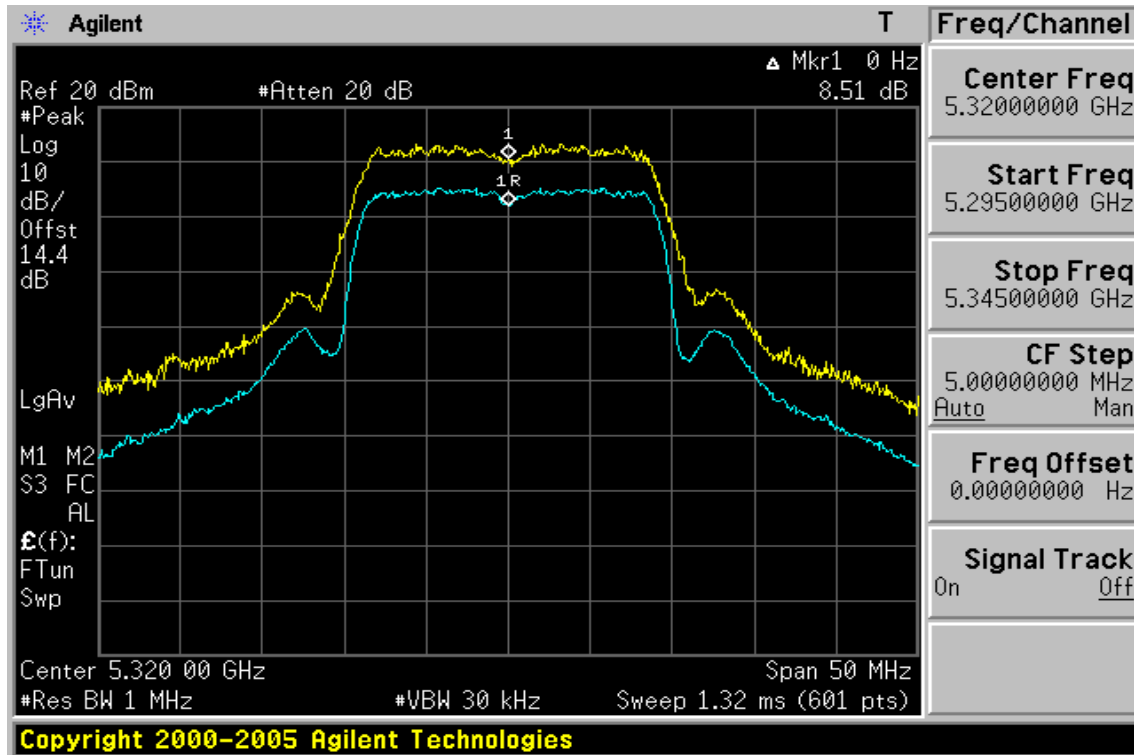
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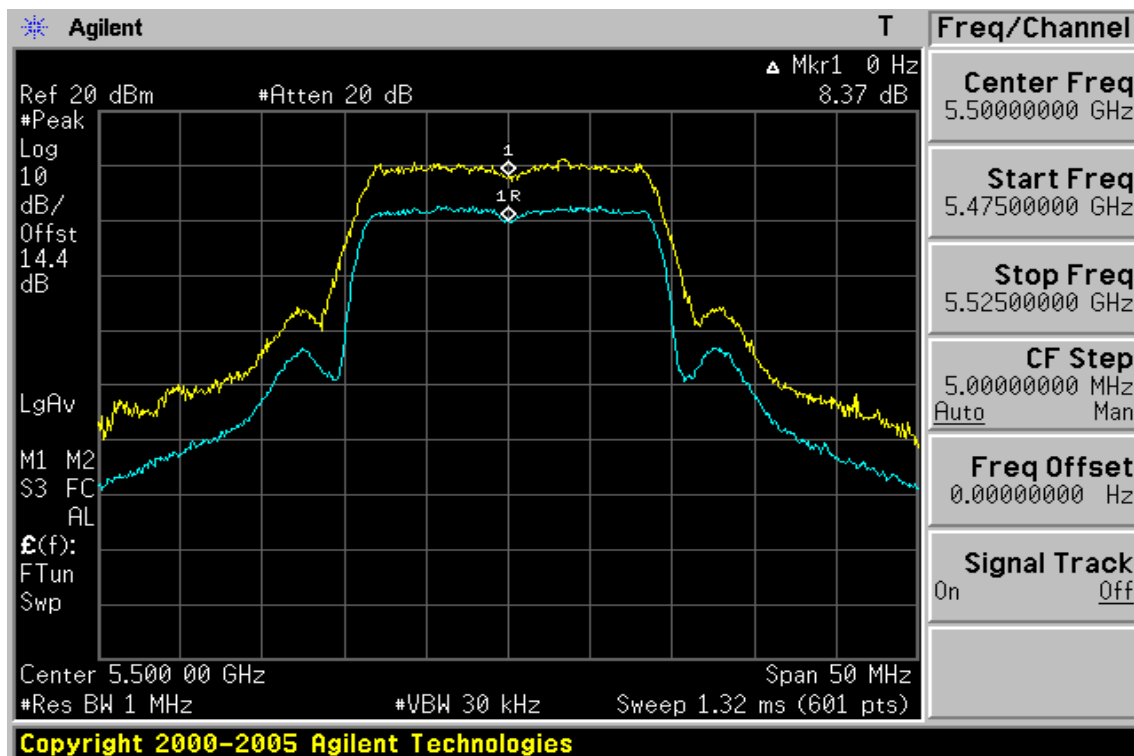
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Peak Excursion Data Plot (CH High 5320MHz)



802.11n HT20, 5470~5725 MHz

Peak Excursion Data Plot (CH Low 5500 MHz)



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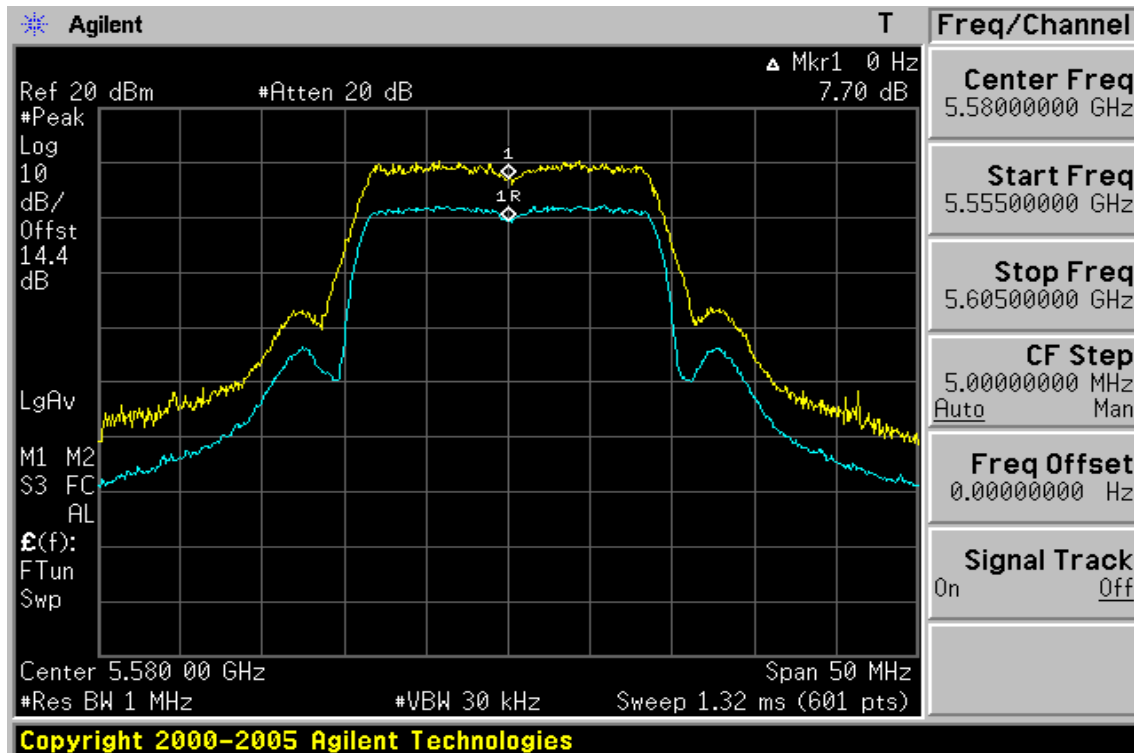
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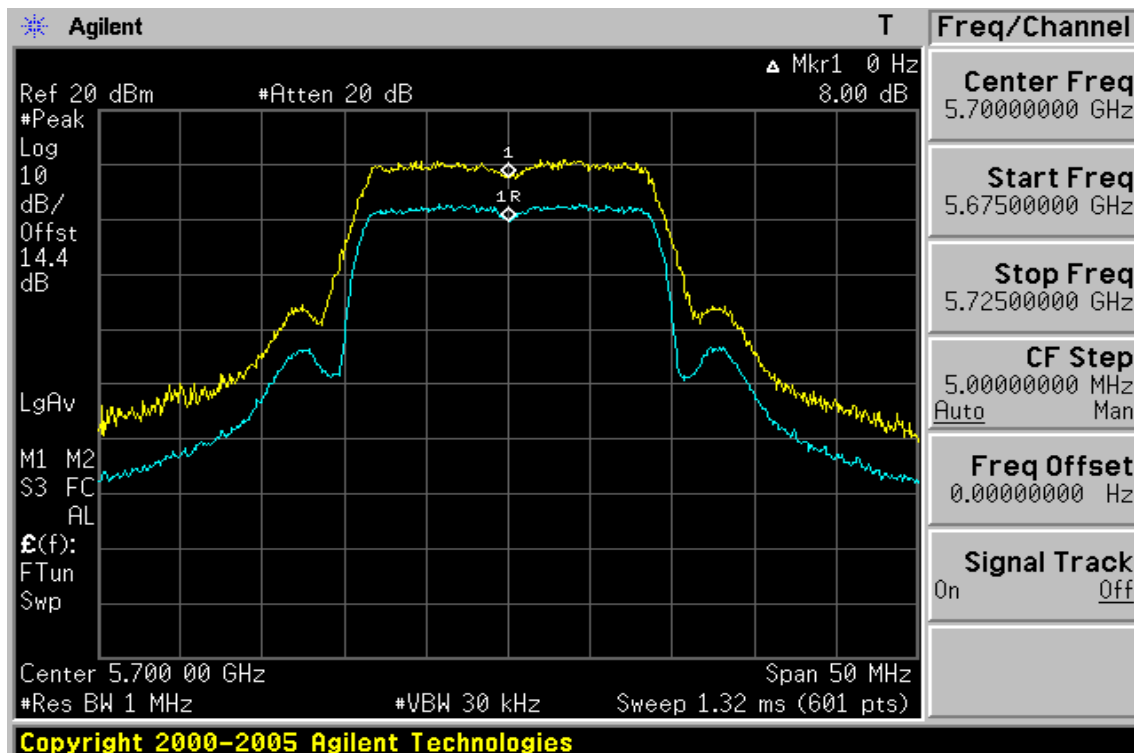
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Peak Excursion Data Plot (CH Mid 5580 MHz)



Peak Excursion Data Plot (CH High 5700 MHz)



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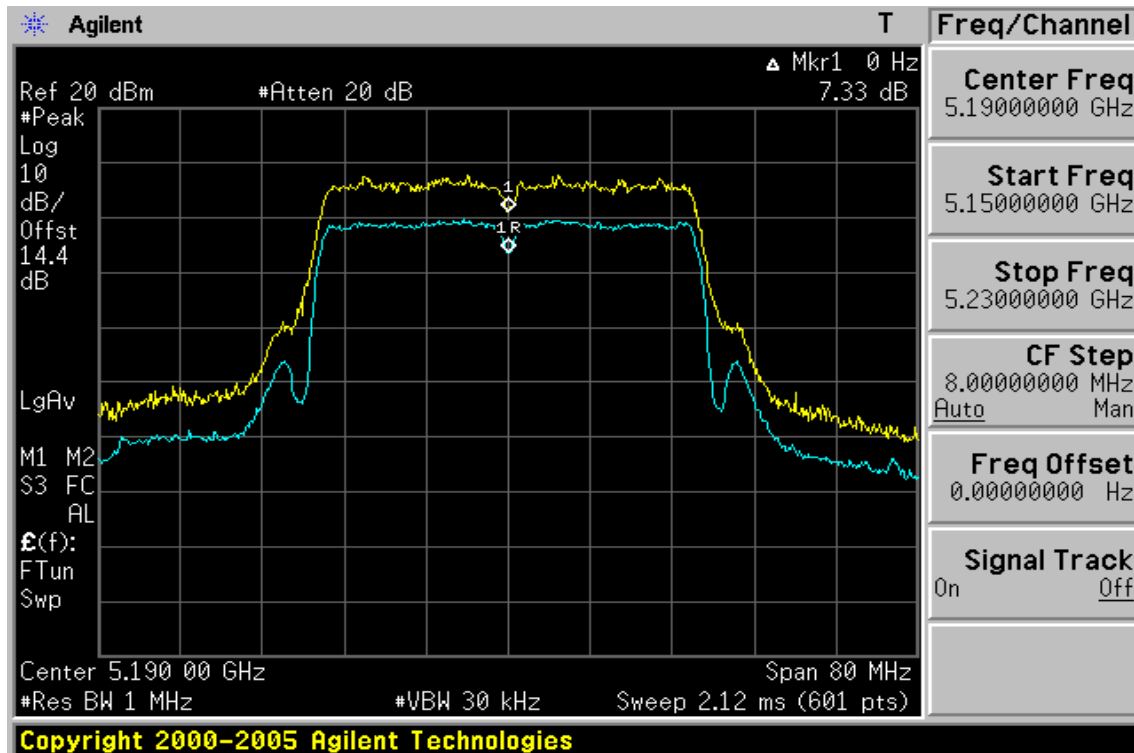
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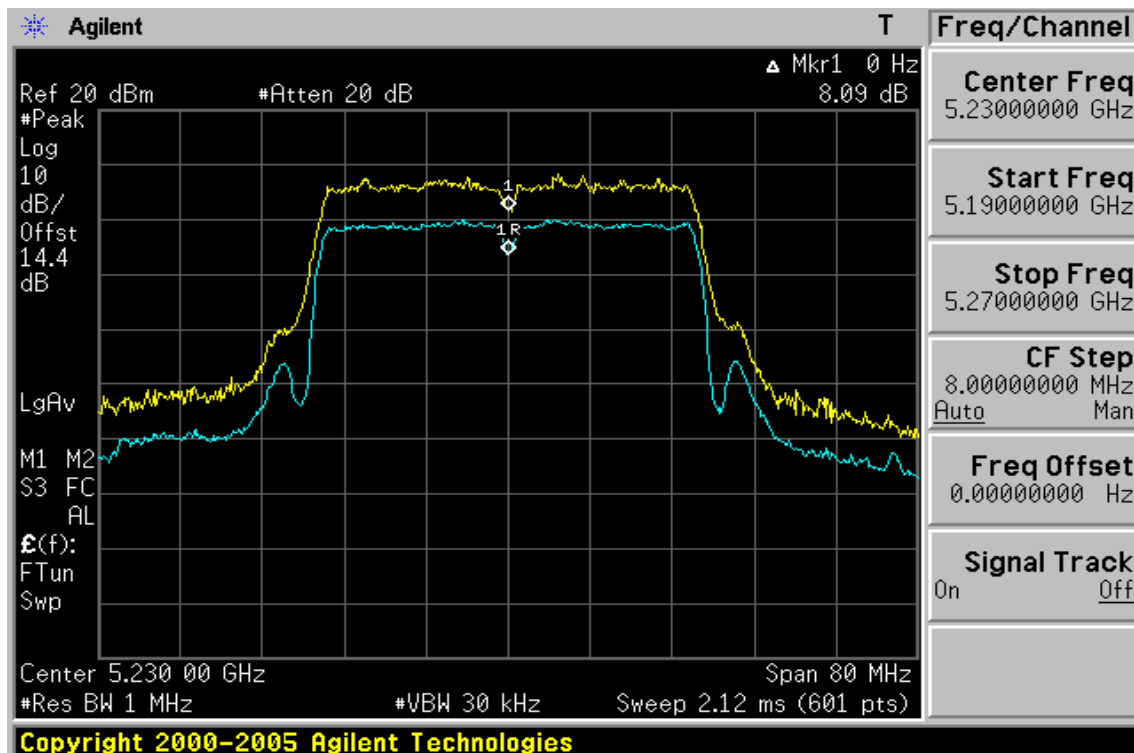
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802.11n HT40, 5150~5250 MHz

Peak Excursion Data Plot (CH Low 5190 MHz)



Peak Excursion Data Plot (CH High 5230 MHz)



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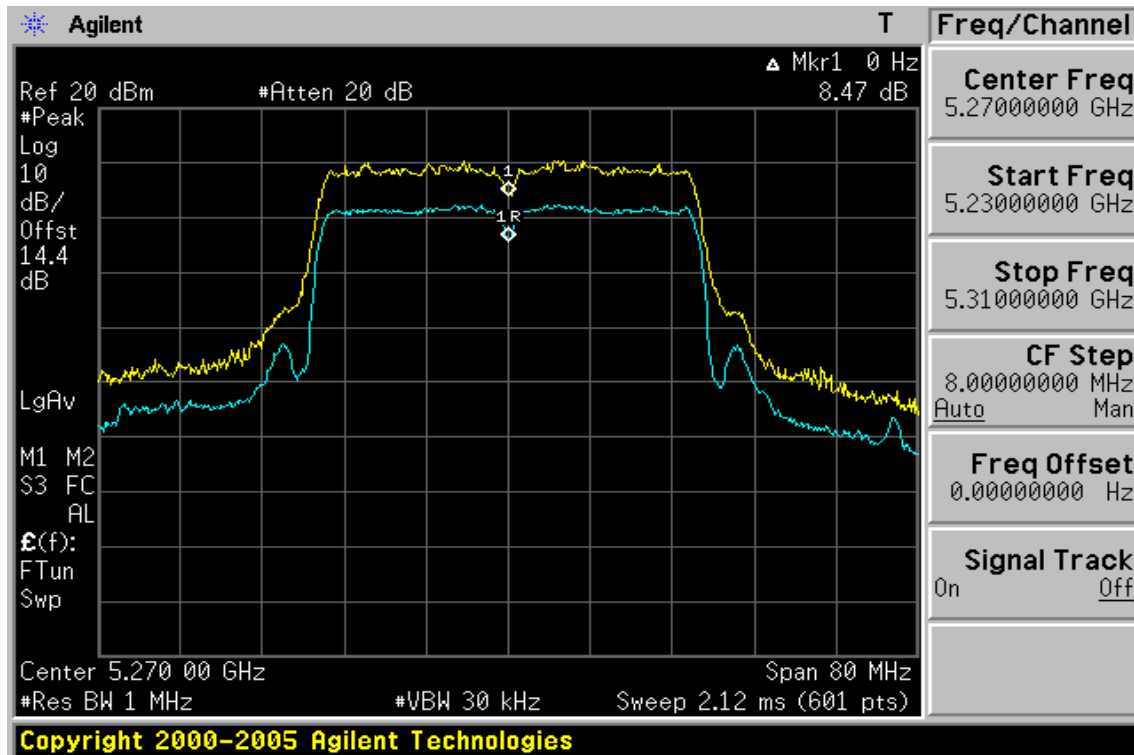
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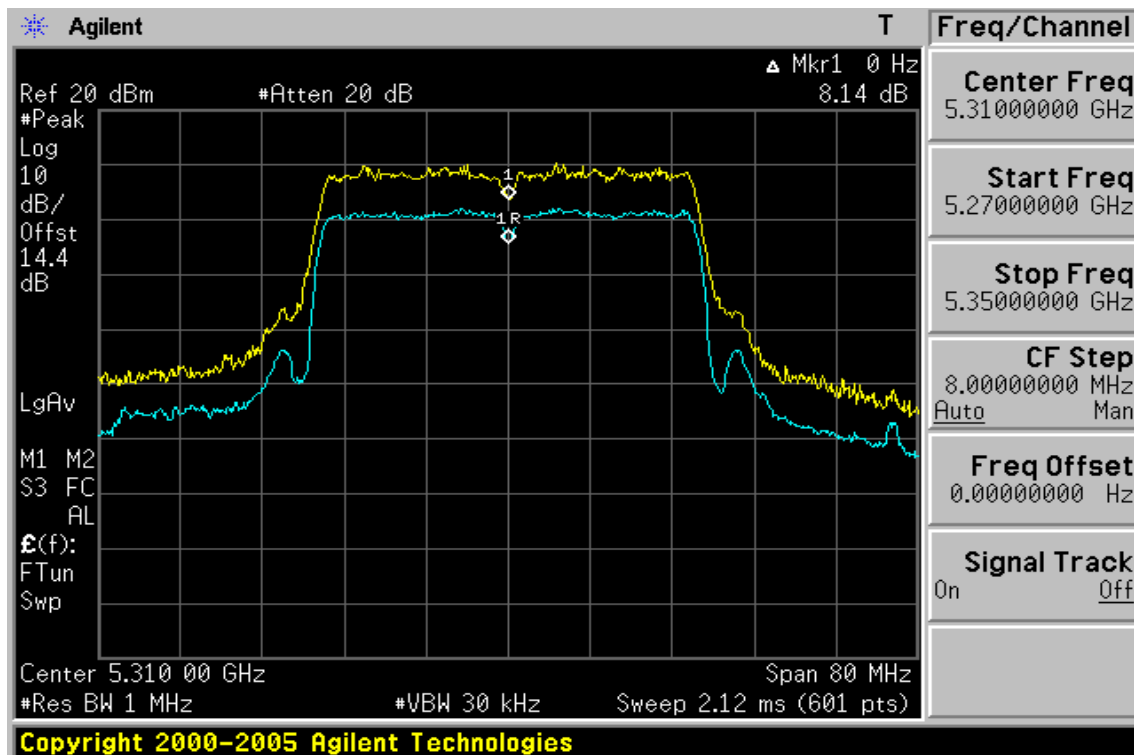
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802.11n HT20, 5250~5350 MHz

Peak Excursion Data Plot (CH Low 5270 MHz)



Peak Excursion Data Plot (CH High 5310MHz)



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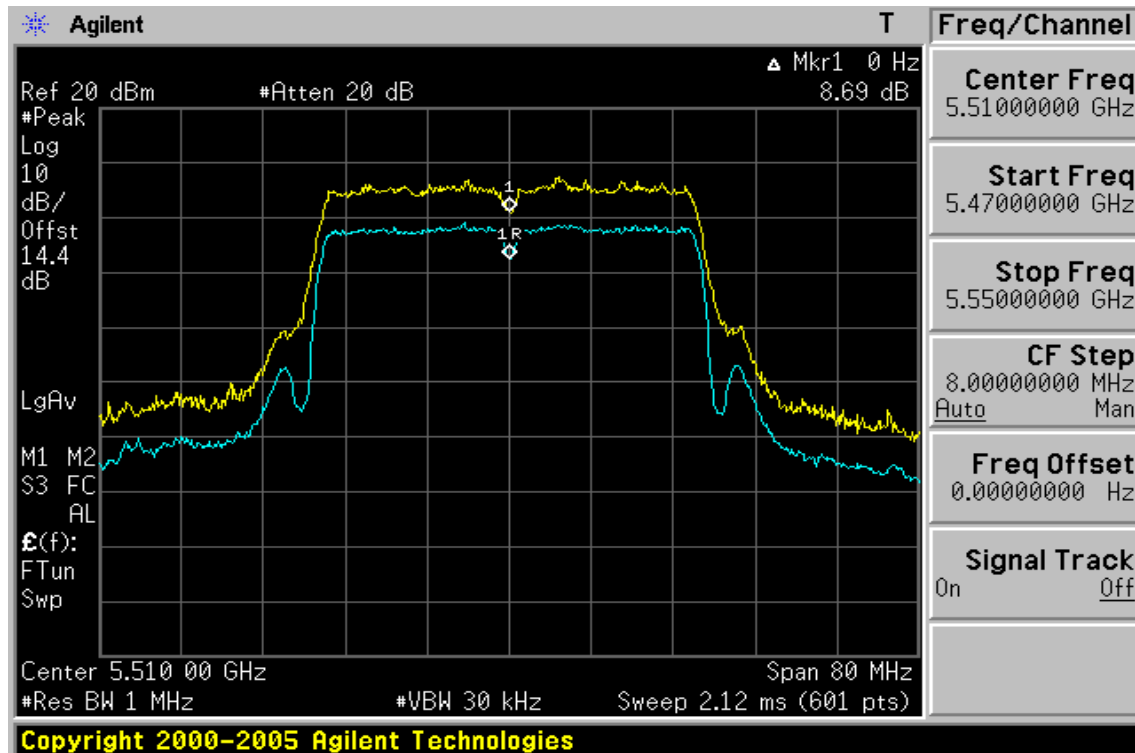
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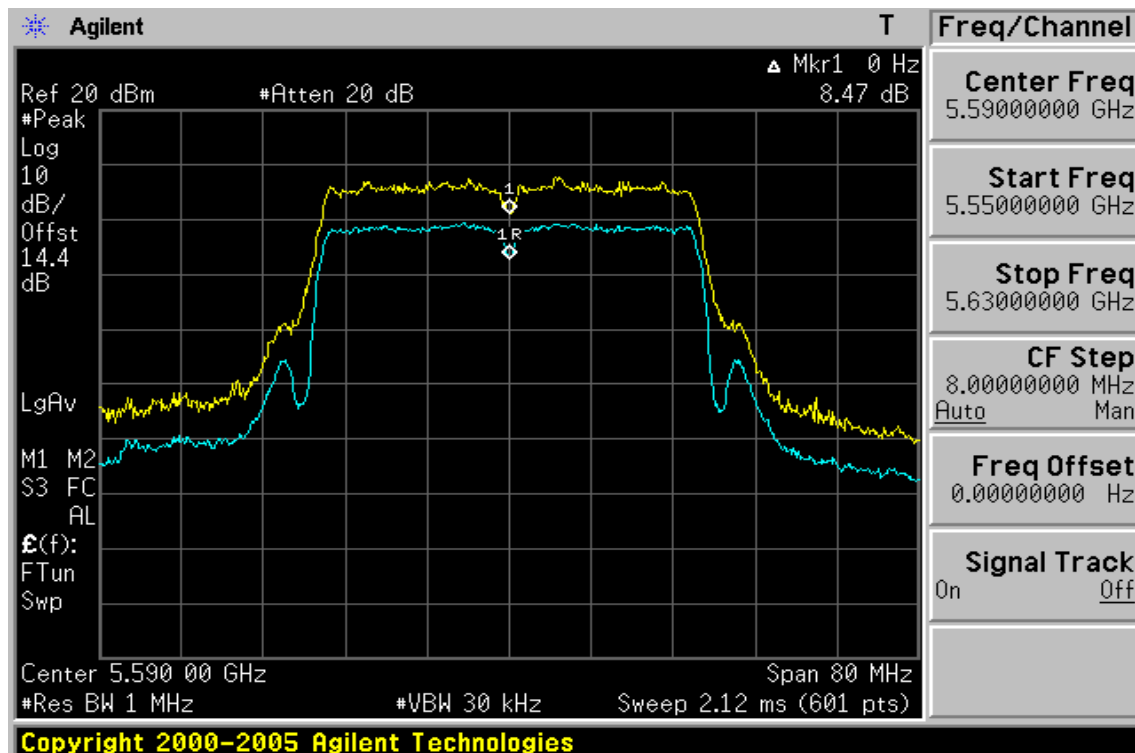
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802.11n HT20, 5470~5725 MHz

Peak Excursion Data Plot (CH Low 5510MHz)



Peak Excursion Data Plot (CH Mid 5590MHz)



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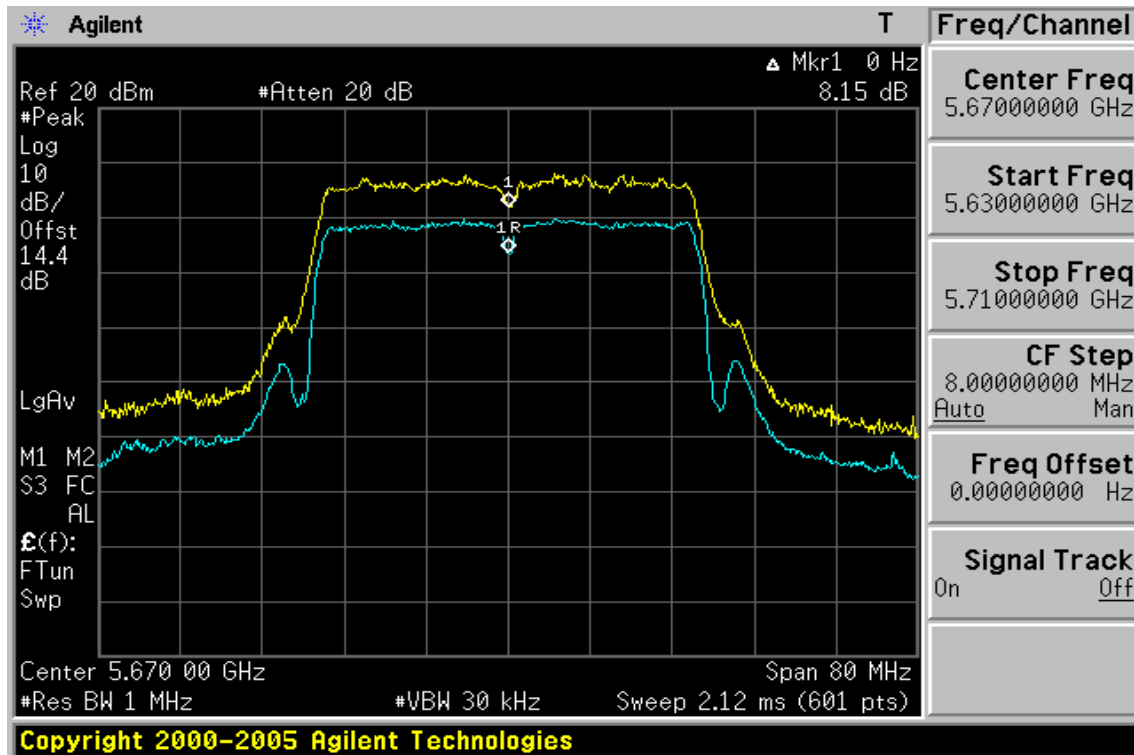
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Peak Excursion Data Plot (CH High 5670 MHz)



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11. UNDESIRABLE EMISSION - CONDUCTED MEASUREMENT

11.1 Standard Applicable

According to §15.407(b),

(b) Undesirable Emission Limits: Except as shown in Paragraph (b)(6) of this section, the peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.
- (3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz.
- (5) The above emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in Section 15.207.
- (7) The provisions of Section 15.205 of this part apply to intentional radiators operating under this section.
- (8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency block edges as the design of the equipment permits.

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According to RSS-210 A9.2

- (1) For transmitters operating in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p.
- (2) For transmitters operating in the band 5250-5350 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Devices operating in the band 5250-5350 MHz that generate emissions in the band 5150-5250 MHz shall not exceed an out-of-band emission limit of -27 dBm/MHz e.i.r.p. in the band 5150-5250 MHz in order to operate indoor/outdoor, or alternatively shall comply with the spectral power density for operation within the band 5150-5250 MHz and shall be labelled “for indoor use only”.
- (3) For transmitters operating in the band 5470-5725 MHz, all emissions outside that band shall not exceed -27 dBm/MHz e.i.r.p.

For transmitters operating in the band 5725-5825 MHz, all emissions within the frequency range from the band edges to 10 MHz above or below the band edges shall not exceed -17 dBm/MHz e.i.r.p. For frequencies more than 10 MHz above or below the band edges, emissions shall not exceed -27 dBm/MHz.

11.2 Measurement Procedure

1. Measure the proper duty cycle to determine what approach is going to be used.
2. Place the EUT on the table and set it in transmitting mode.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to spectrum.
4. Set Spectrum RBW=1MHz, VBW = 1MHz for peak measurement and 10Hz for average measurement.
5. Set Spectrum at lower/upper band edge and the restricted band adjacent to the lower/upper edge of the authorized band, with the transmitter set to the lowest/highest channel.
6. Set Spectrum over the 30MHz to 40GHz range with the transmitter set to the lowest, middle, and highest channels.

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Conducted Emission:

1. Measure the proper duty cycle to determine what approach is going to be used:
2. To connect Antenna Port of EUT to Spectrum.
3. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
4. Sweep the frequency to determine spurious emission as seen on spectrum from span of 30 to 3G, 3G to 6G, 6G to 13G, 13G to 18G, 18G to 26.5G and 26.5G to 40GHz
5. Via Software, combine 6 spans of frequency range into one plot

RF measurements of the transmitter output employing measurement of conducted method were made at the band edges and the adjacent restricted bands.

Also, conducted RF measurements of the transmitter output over the 30 MHz to 40 GHz band were made in order to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

11.3 Measurement Equipment Used:

Refer to section 7.3 for details.

11.4 Measurement Result:

Refer to next page for plots.

Remark: as per KDB 662291, MIMO mode is accomplished by the addition of $10 \log(N)$, where $N=2$ as the simultaneous emission of spurious emission, and bandedge for conducted compliance test items.

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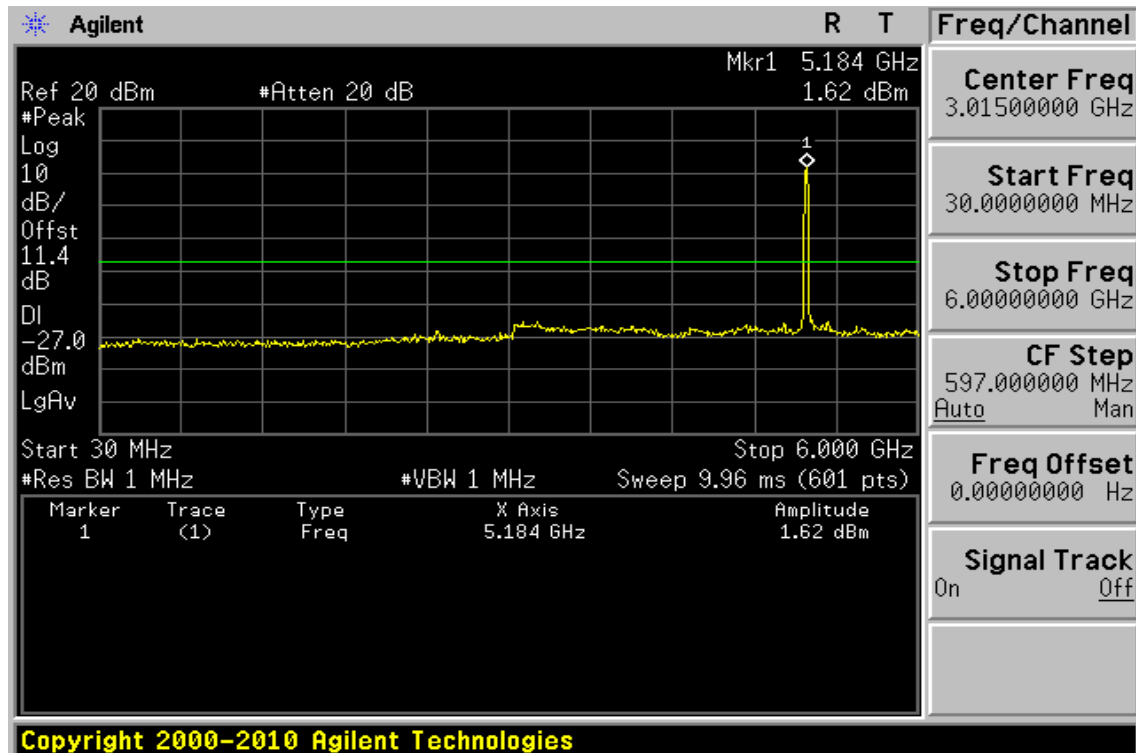
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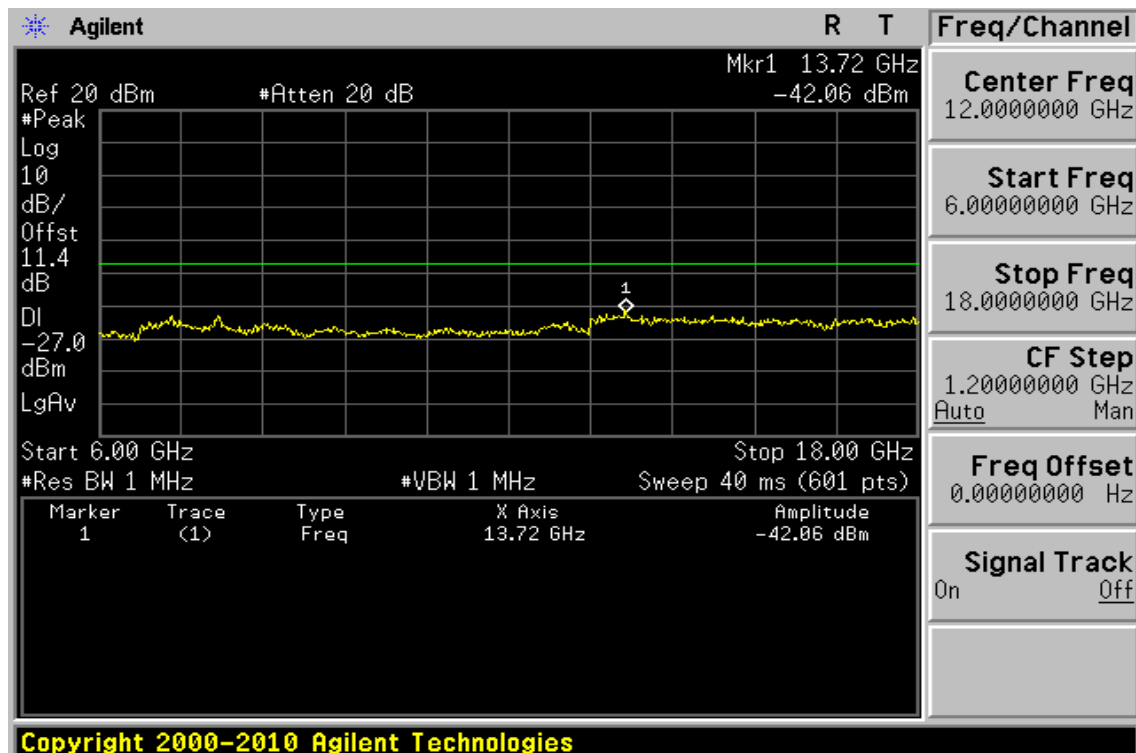
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802.11a, 5150~5250 MHz

Ch Low 30MHz – 6GHz (5180 MHz)



Ch Low 6GHz – 18GHz



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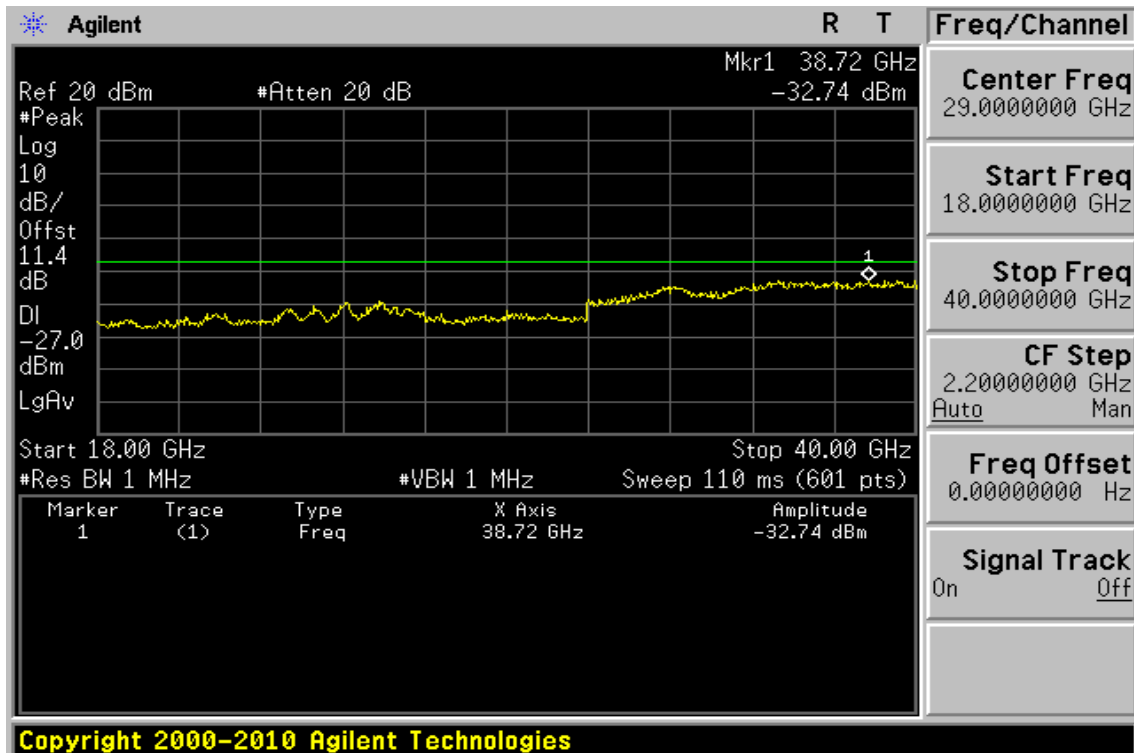
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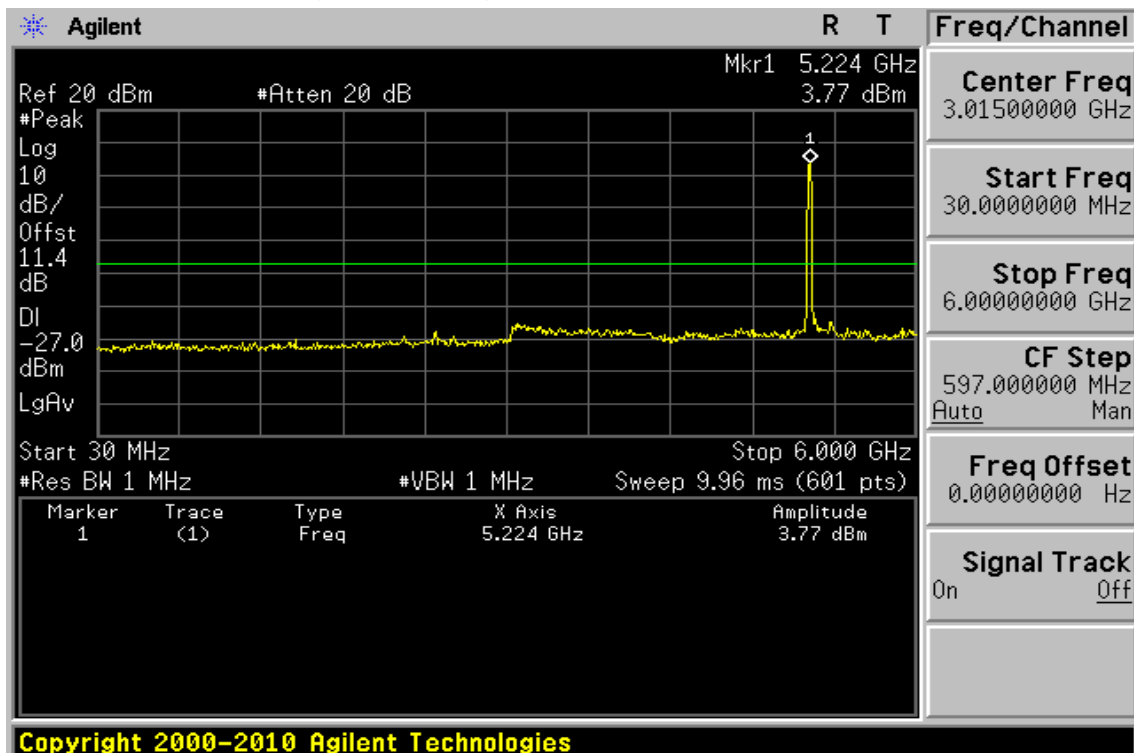
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Ch Low 18GHz – 40GHz



Ch Mid 30MHz – 6GHz (5220 MHz)



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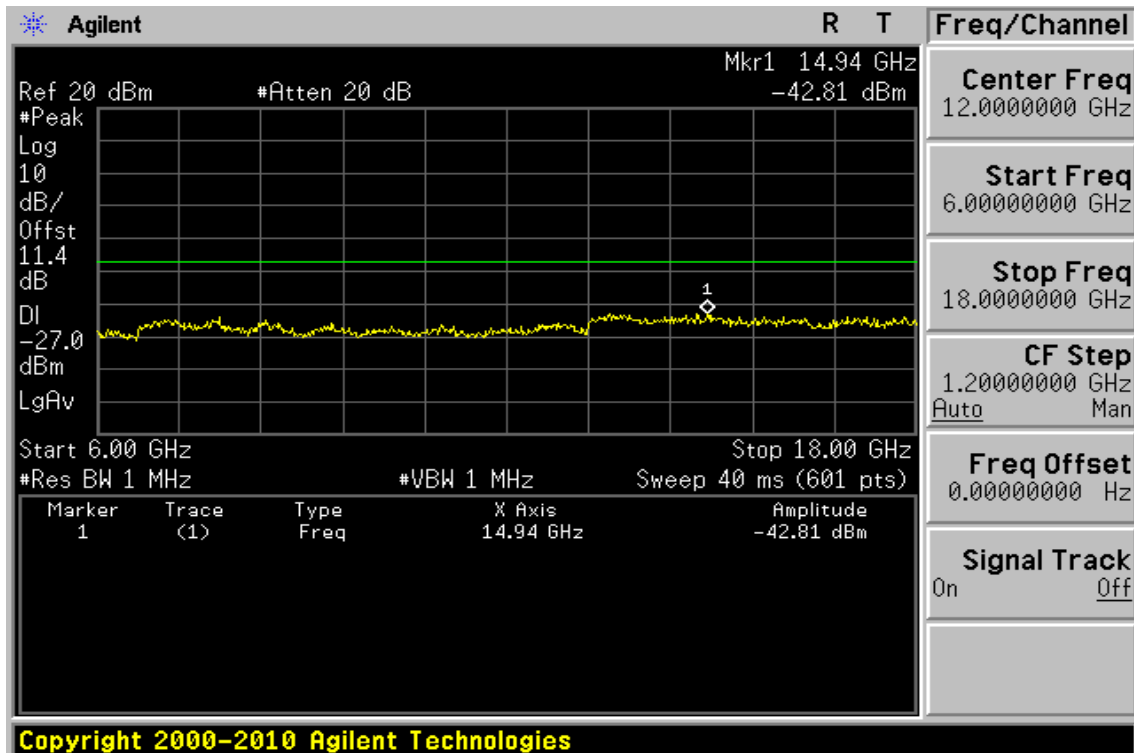
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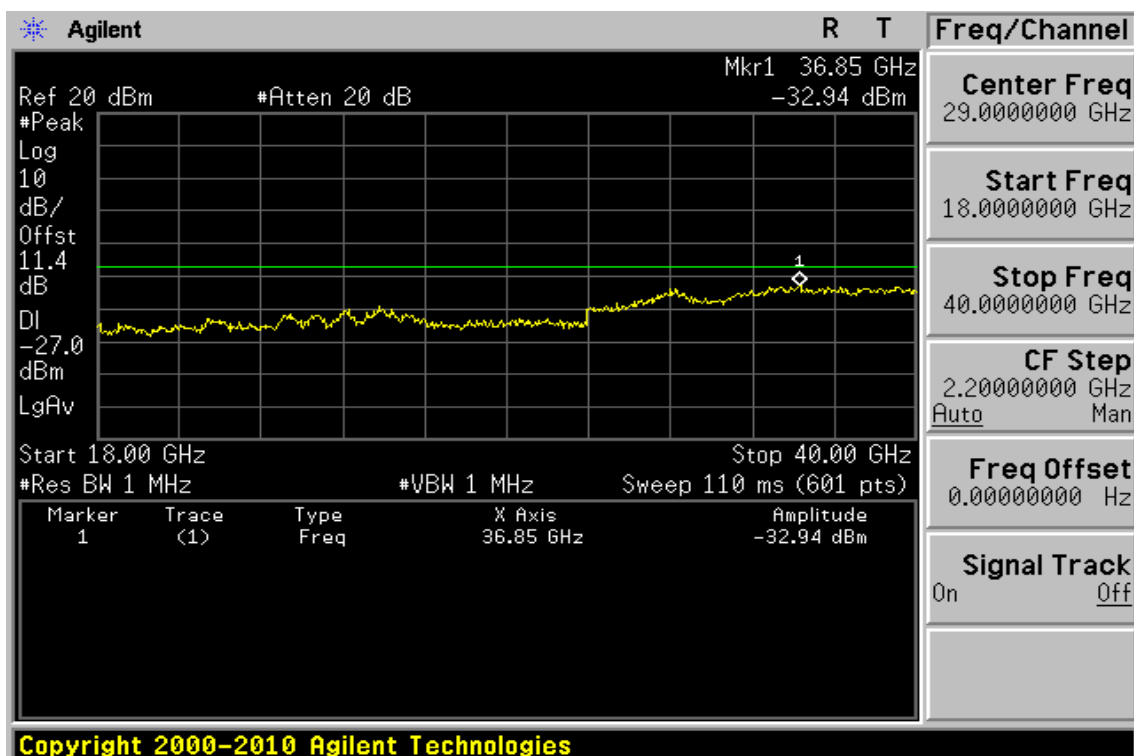
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz



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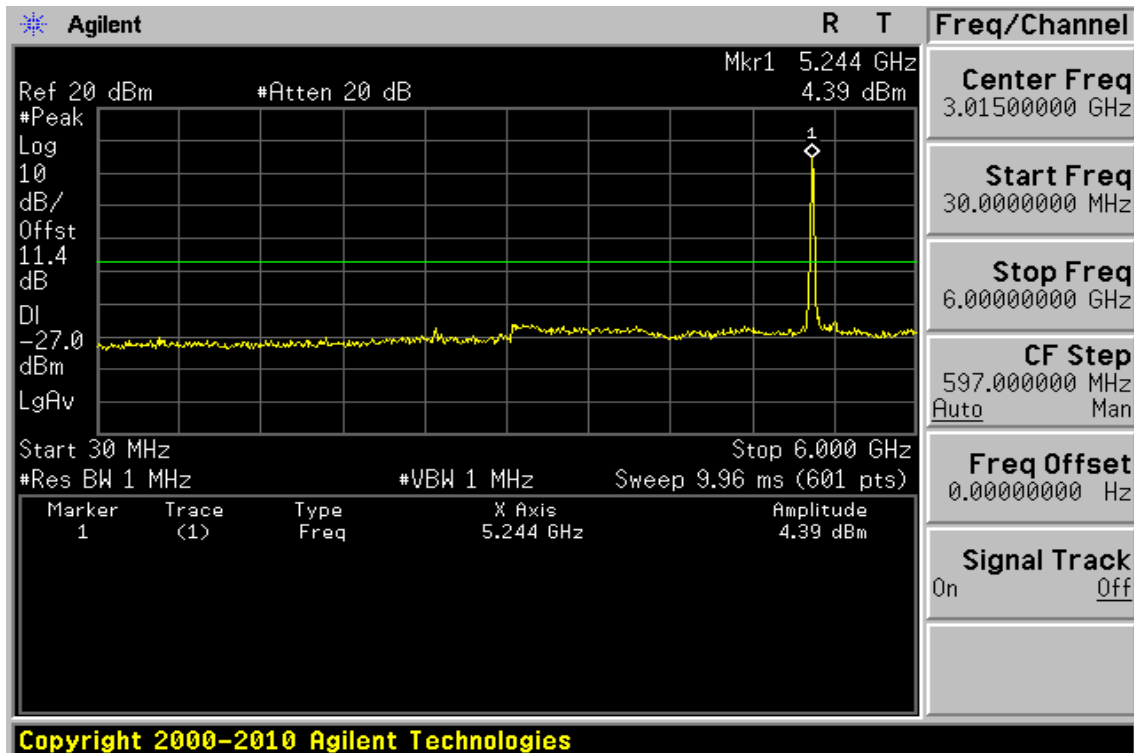
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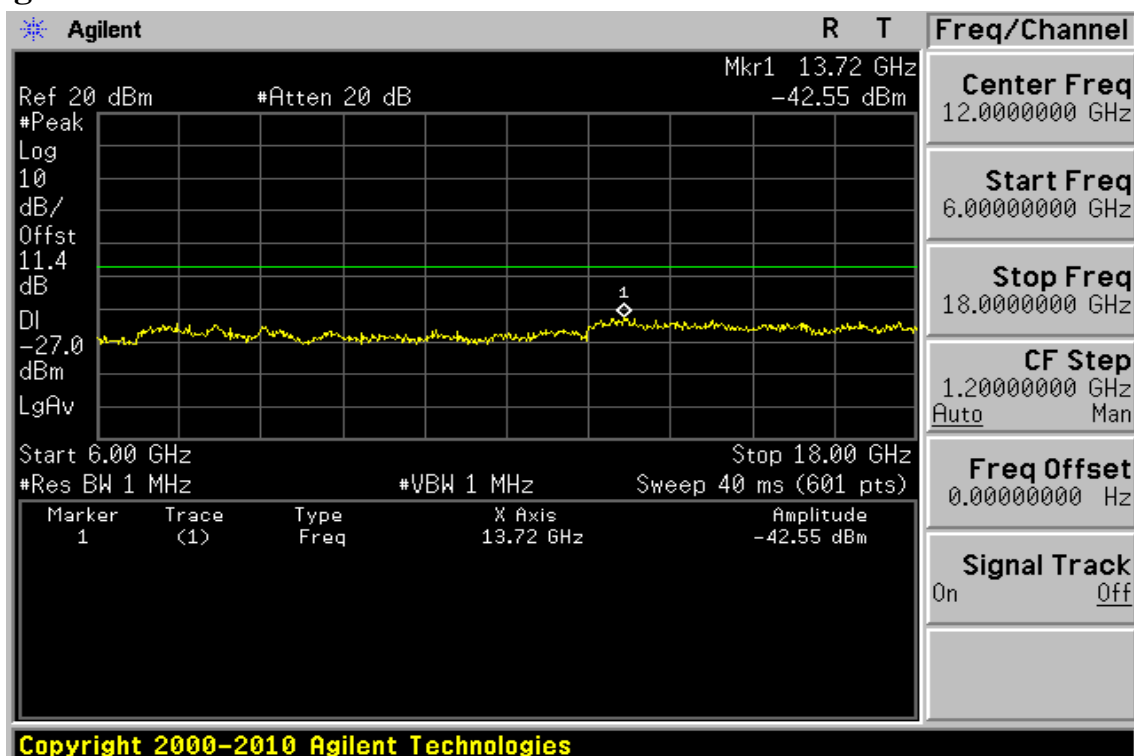
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Ch High 30MHz – 6GHz (5240 MHz)



Ch High 6GHz – 18GHz



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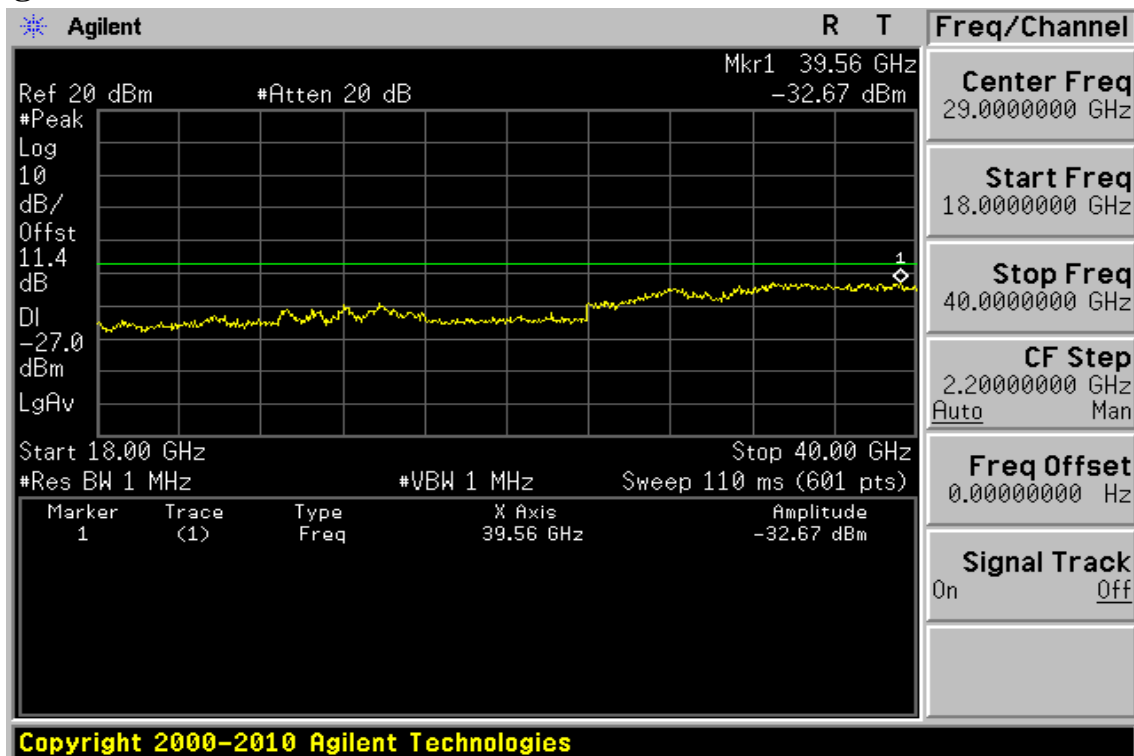
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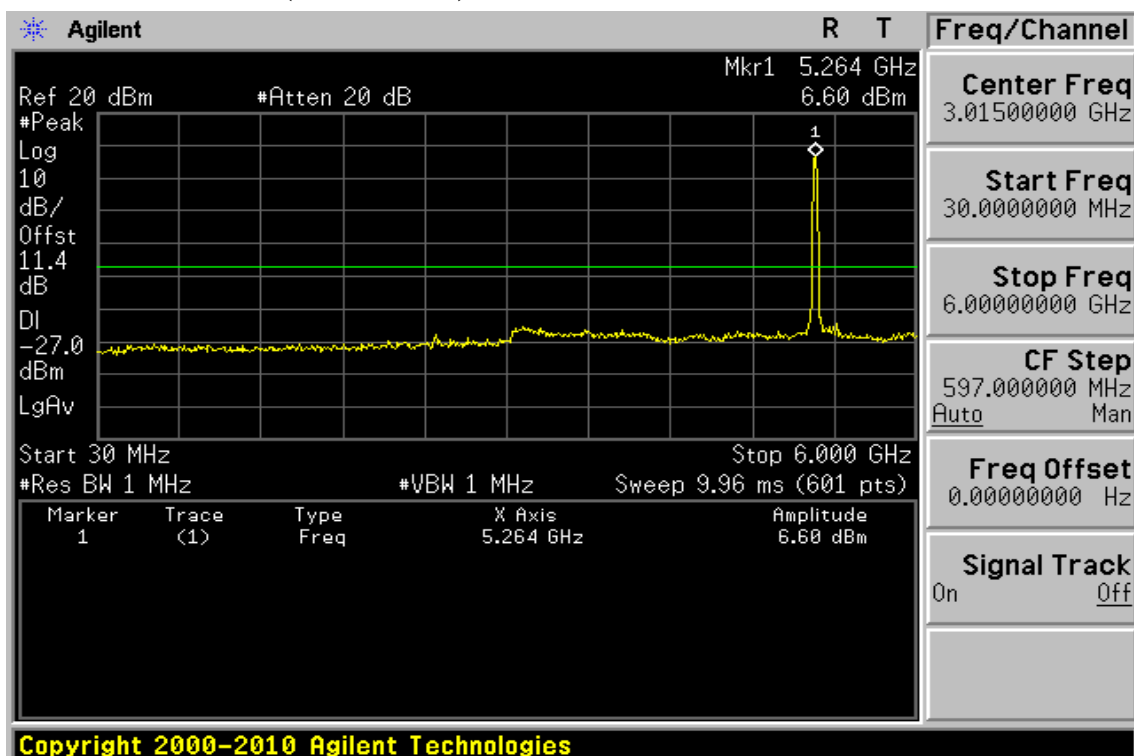
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Ch High 18GHz – 40GHz



802.11a, 5250~5350 MHz

Ch Low 30MHz – 6GHz (5260 MHz)



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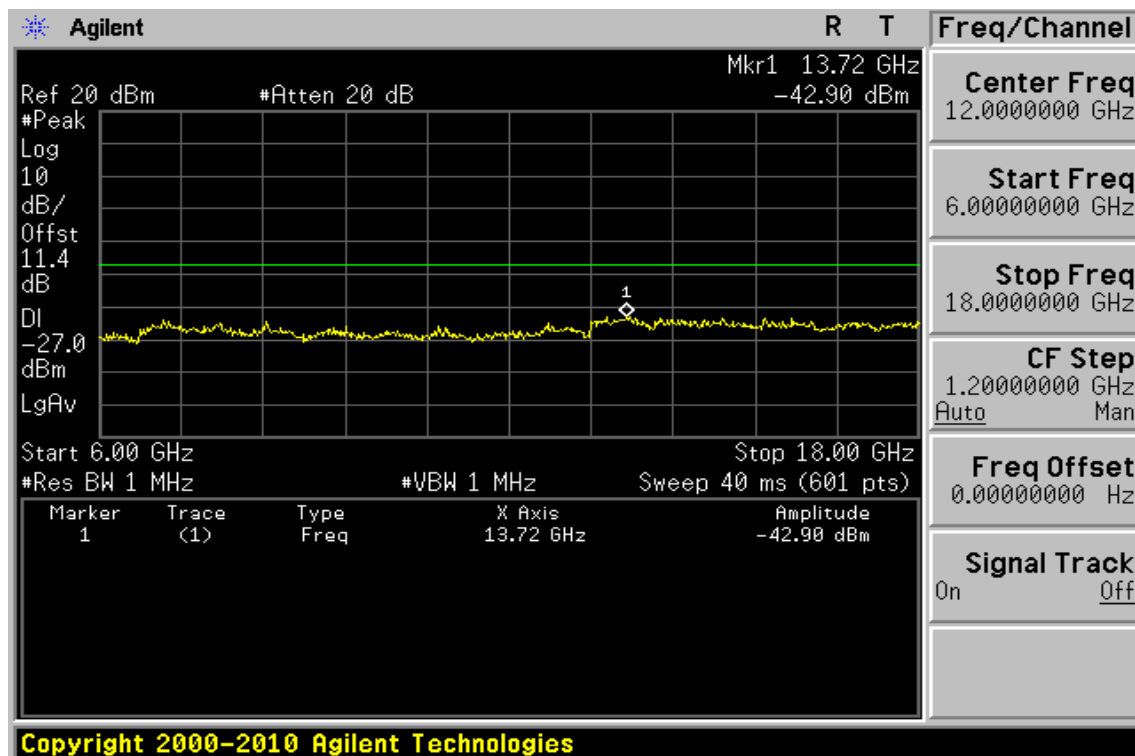
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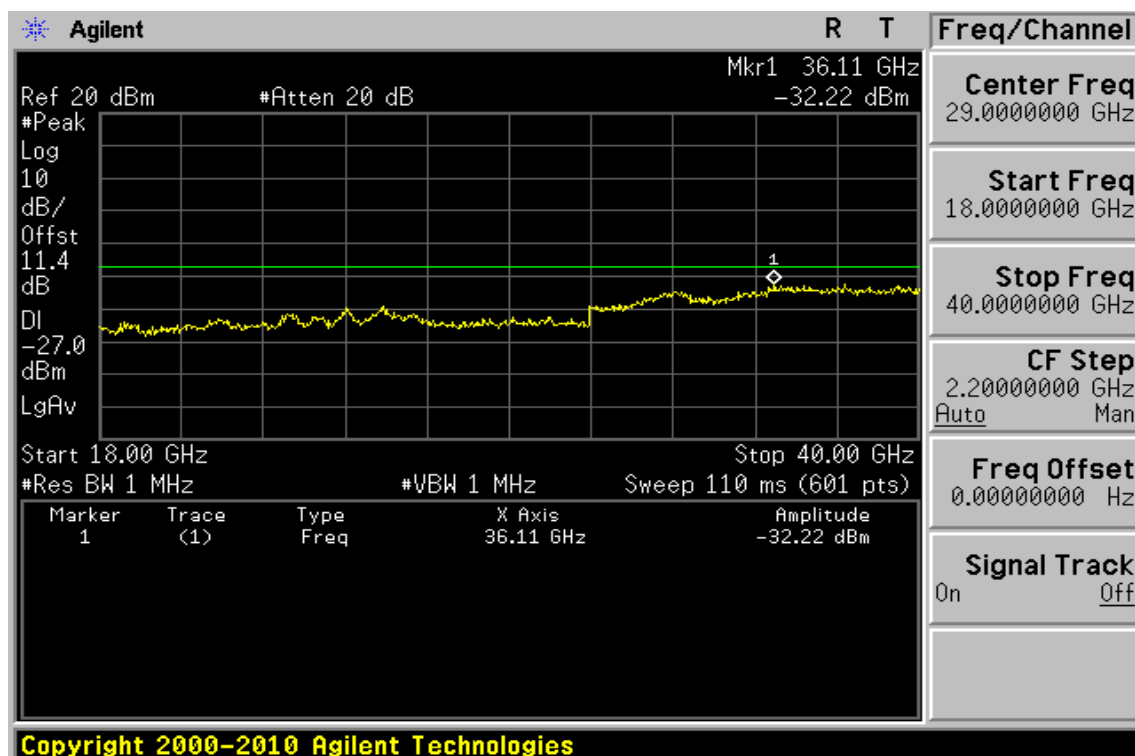
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Ch Low 6GHz – 18GHz



Ch Low 18GHz – 40GHz



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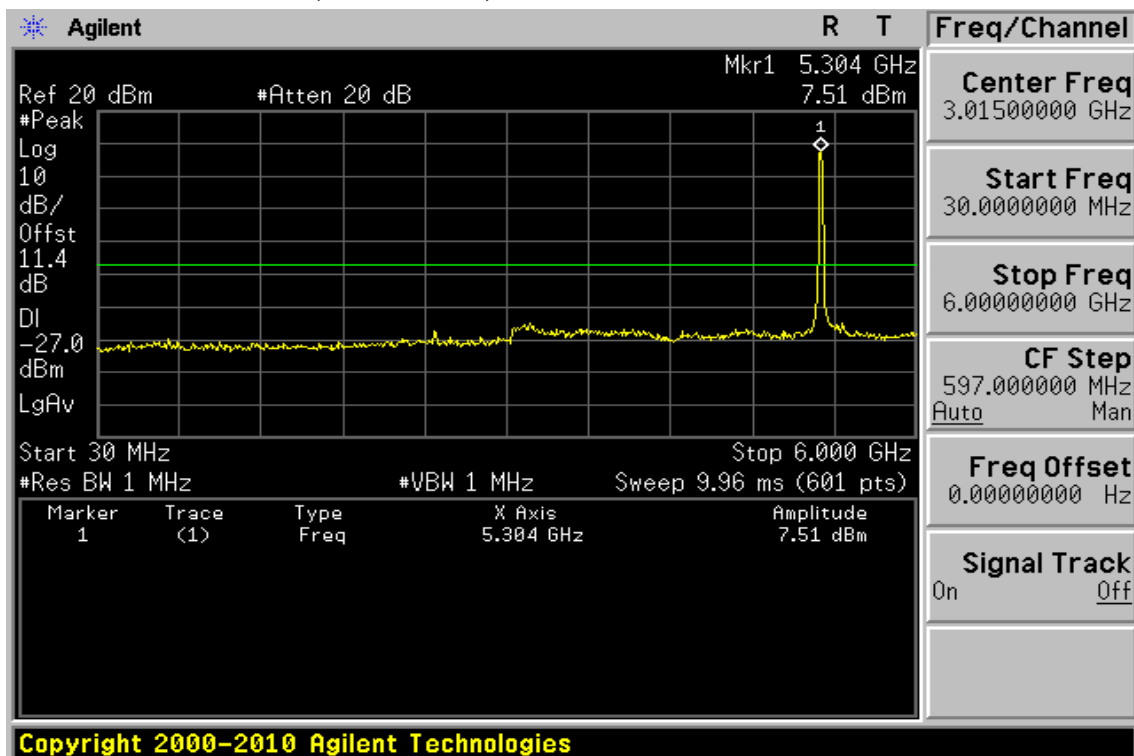
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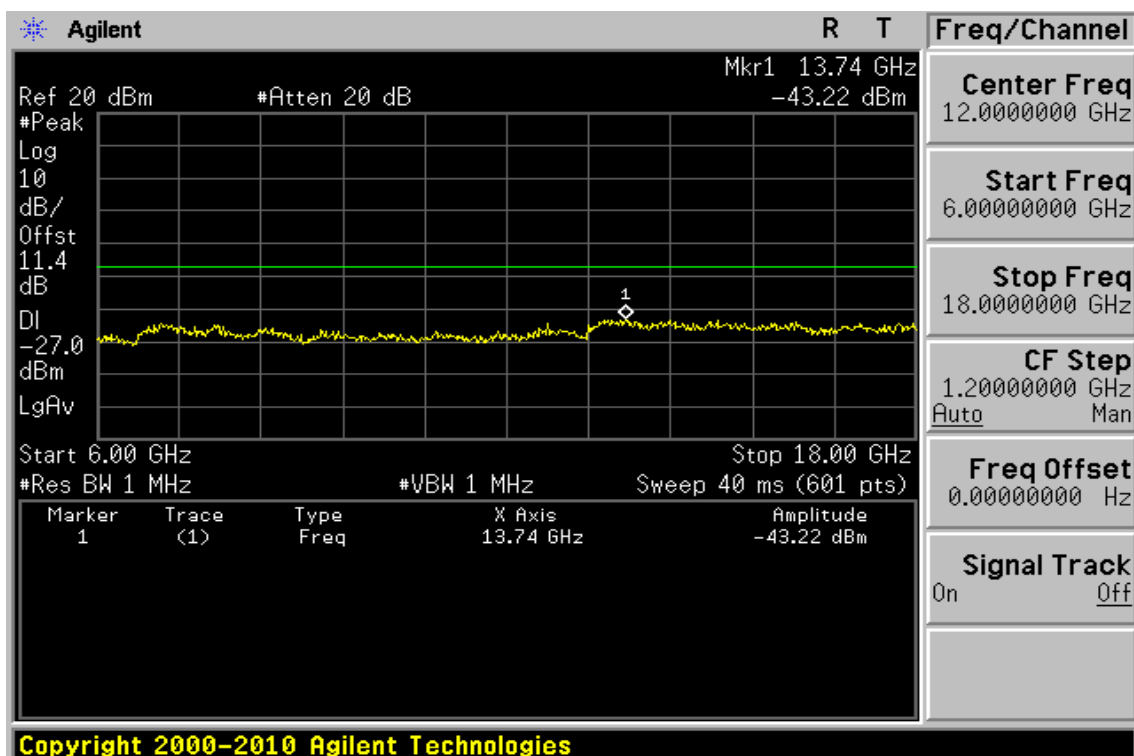
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Ch Mid 30MHz – 6GHz (5300 MHz)



Ch Mid 6GHz – 18GHz



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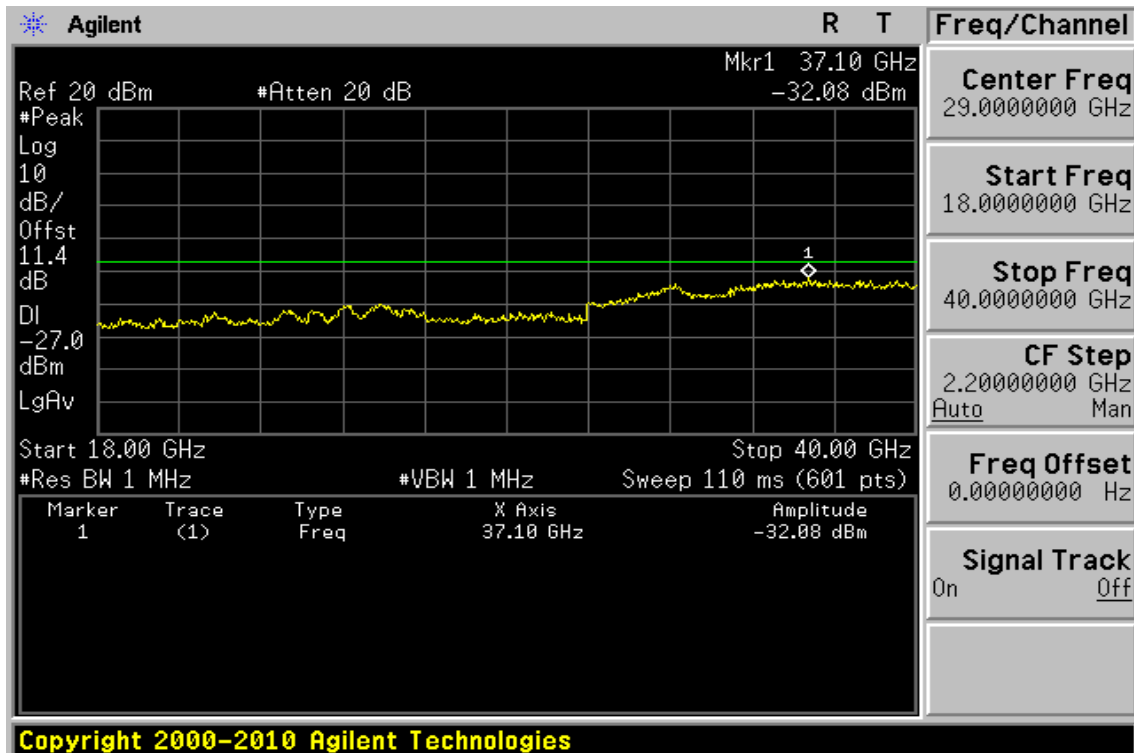
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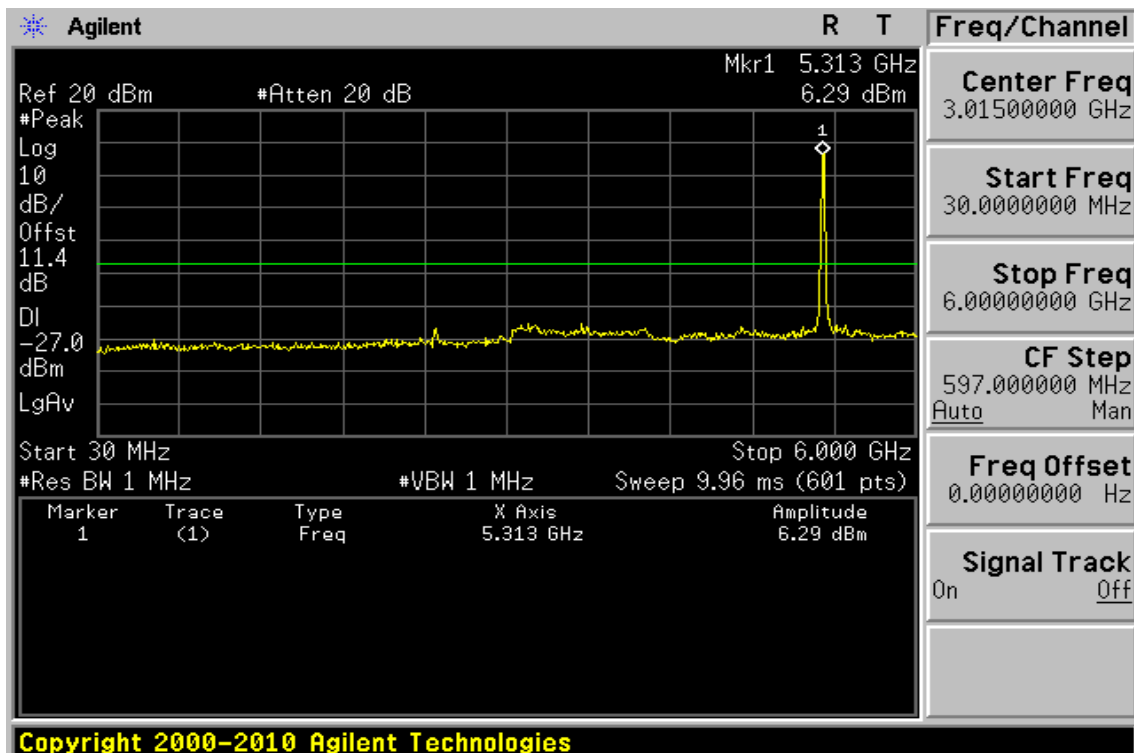
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Ch Mid 18GHz – 40GHz



Ch High 30MHz – 6GHz (5320 MHz)



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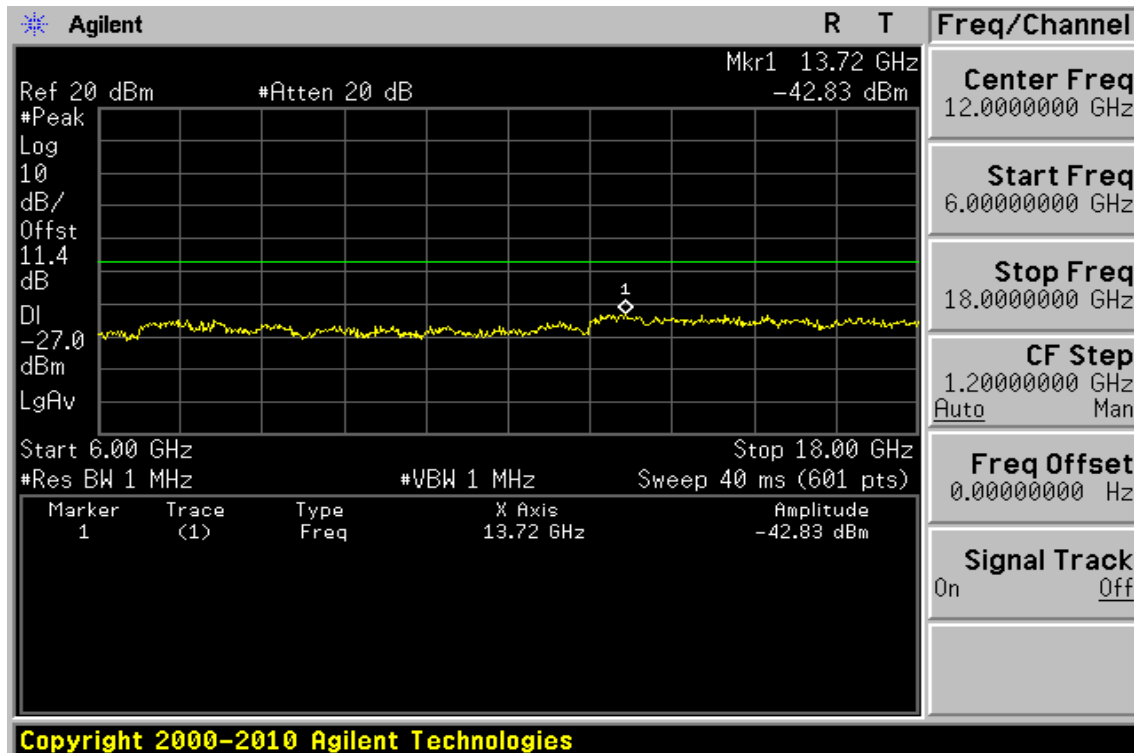
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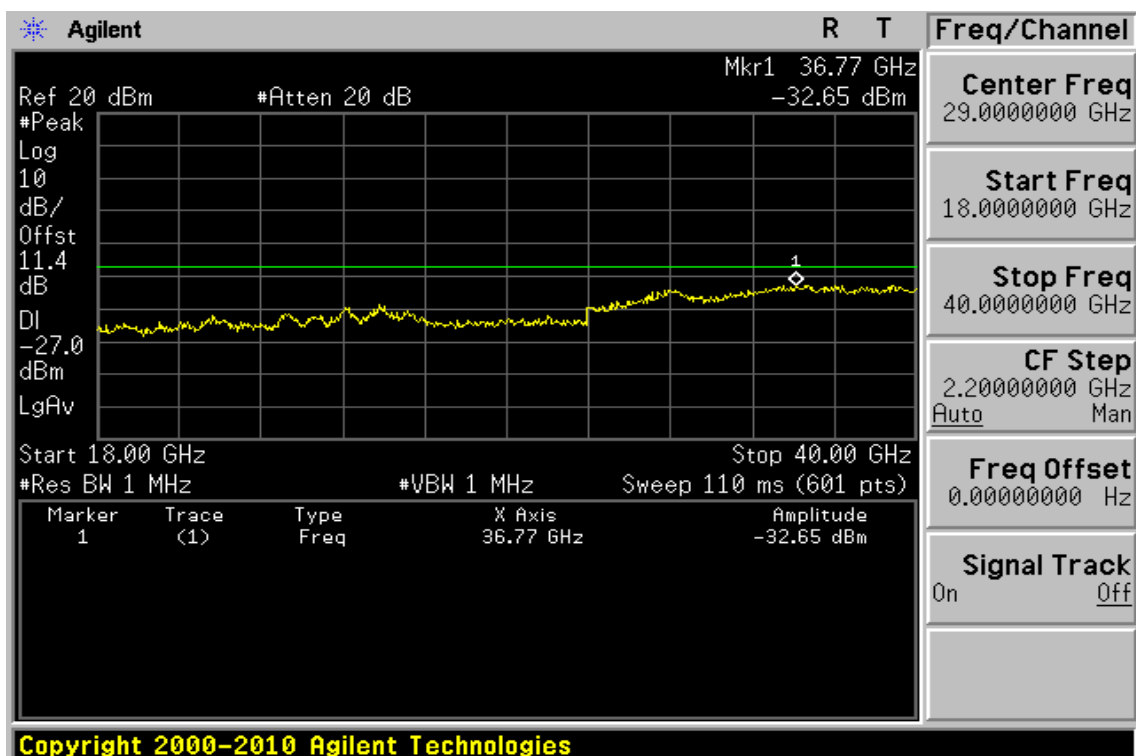
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz



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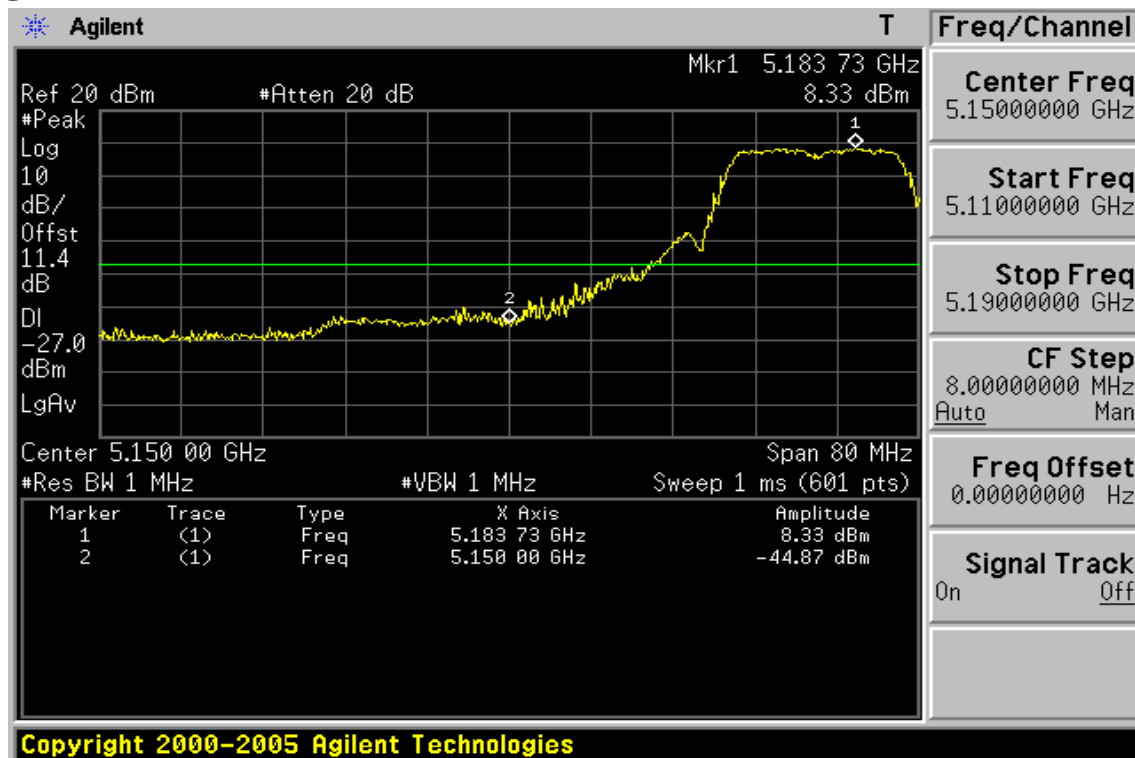
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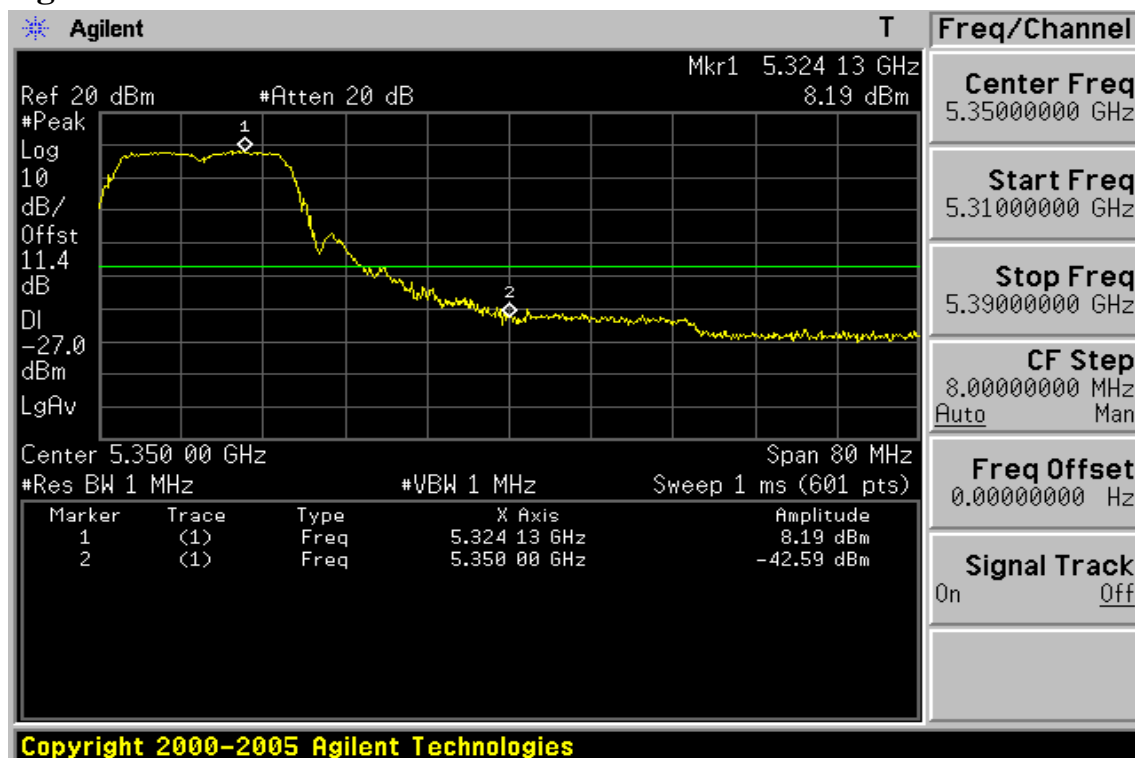
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802.11a, 5150~5350 MHz Band Edges Test Data CH 5150



Band Edges Test Data CH 5350



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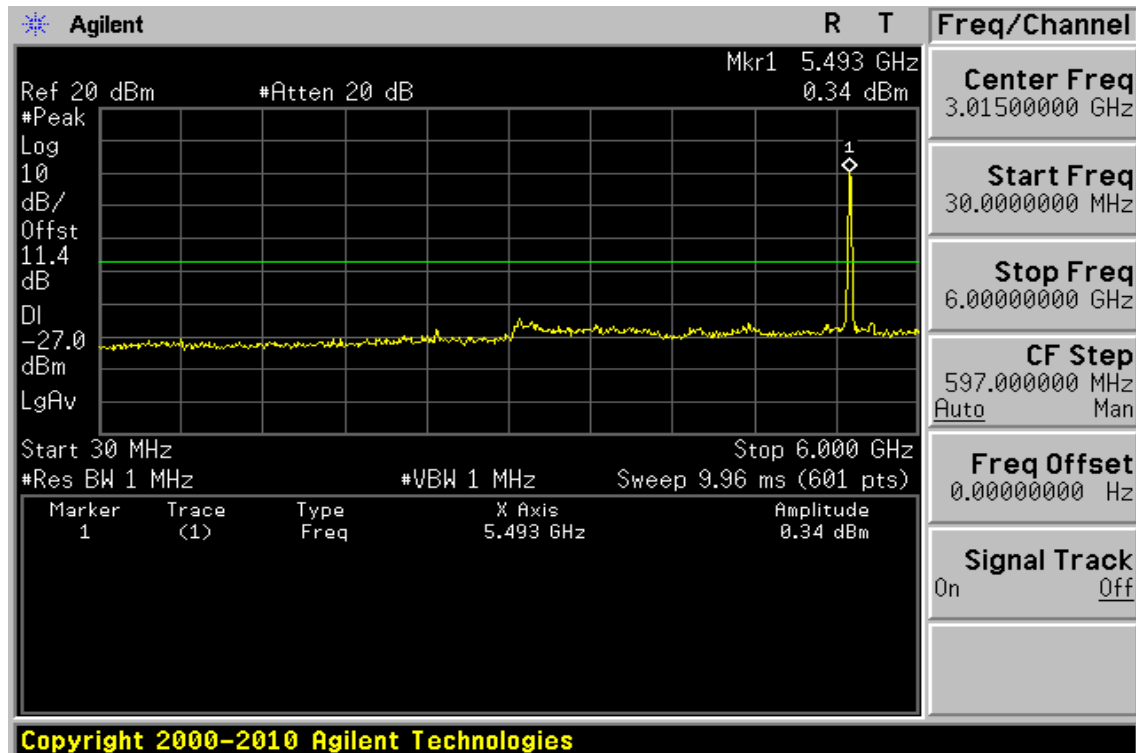
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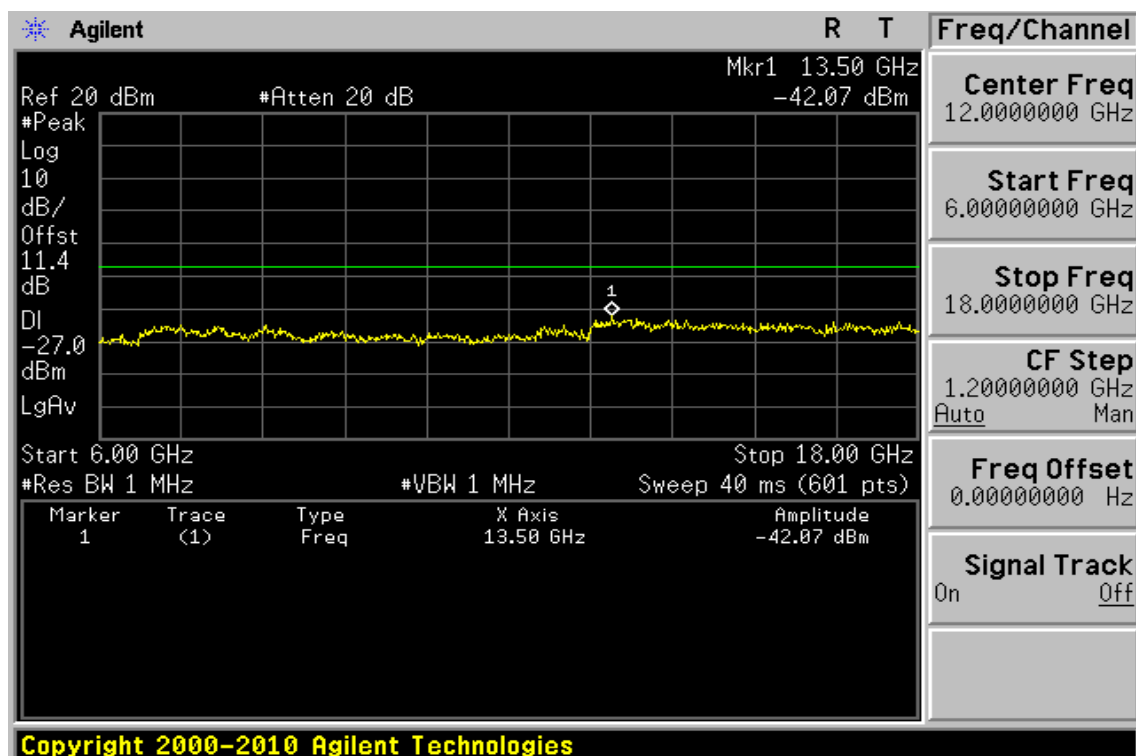
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802.11a, 5470~5725 MHz

Ch Low 30MHz – 6GHz (5500 MHz)



Ch Low 6GHz – 18GHz



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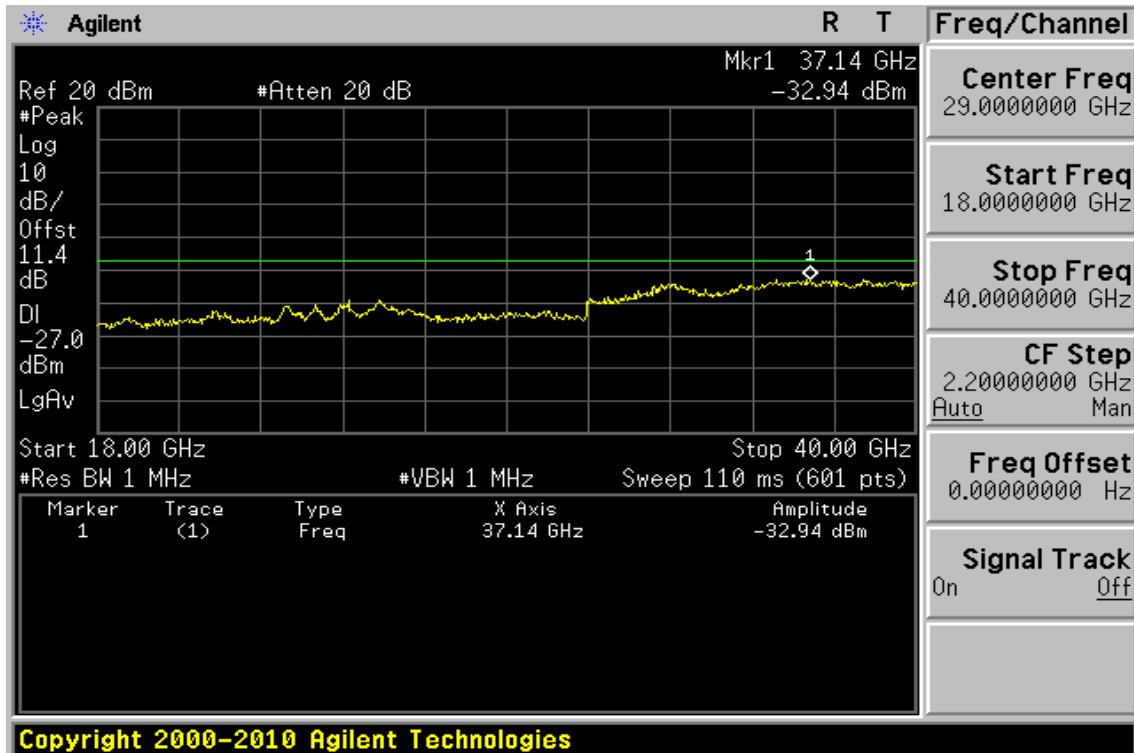
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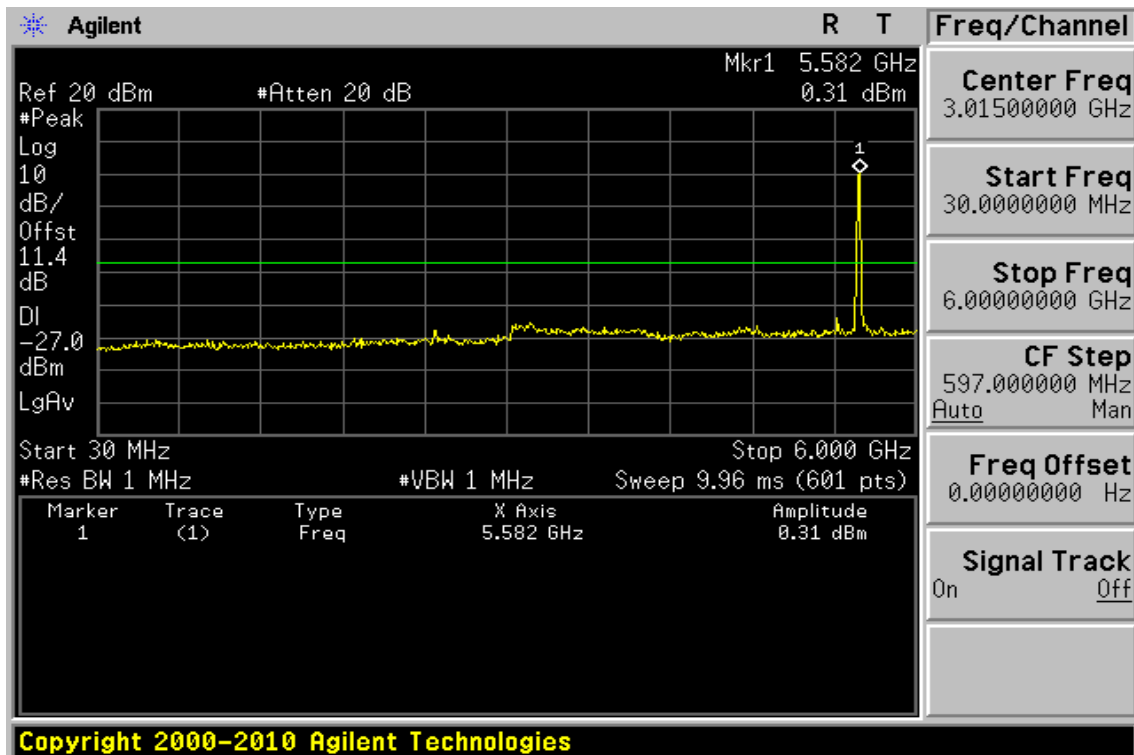
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Ch Low 18GHz – 40GHz



Ch Mid 30MHz – 6GHz (5580 MHz)



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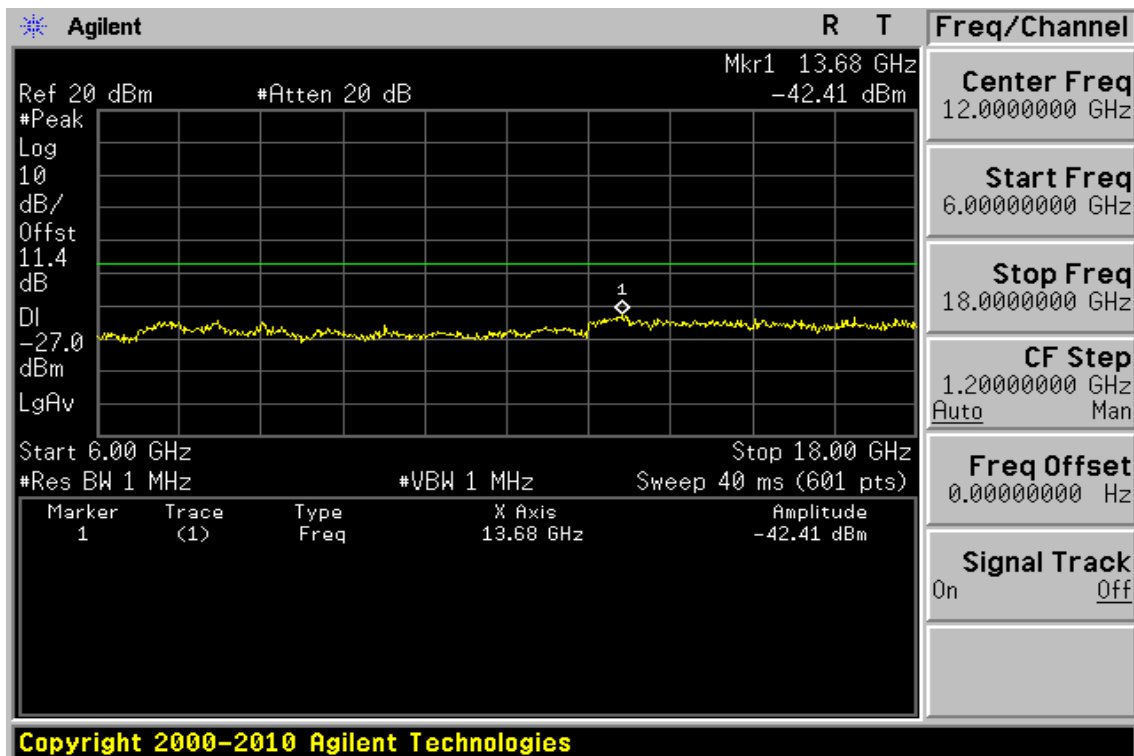
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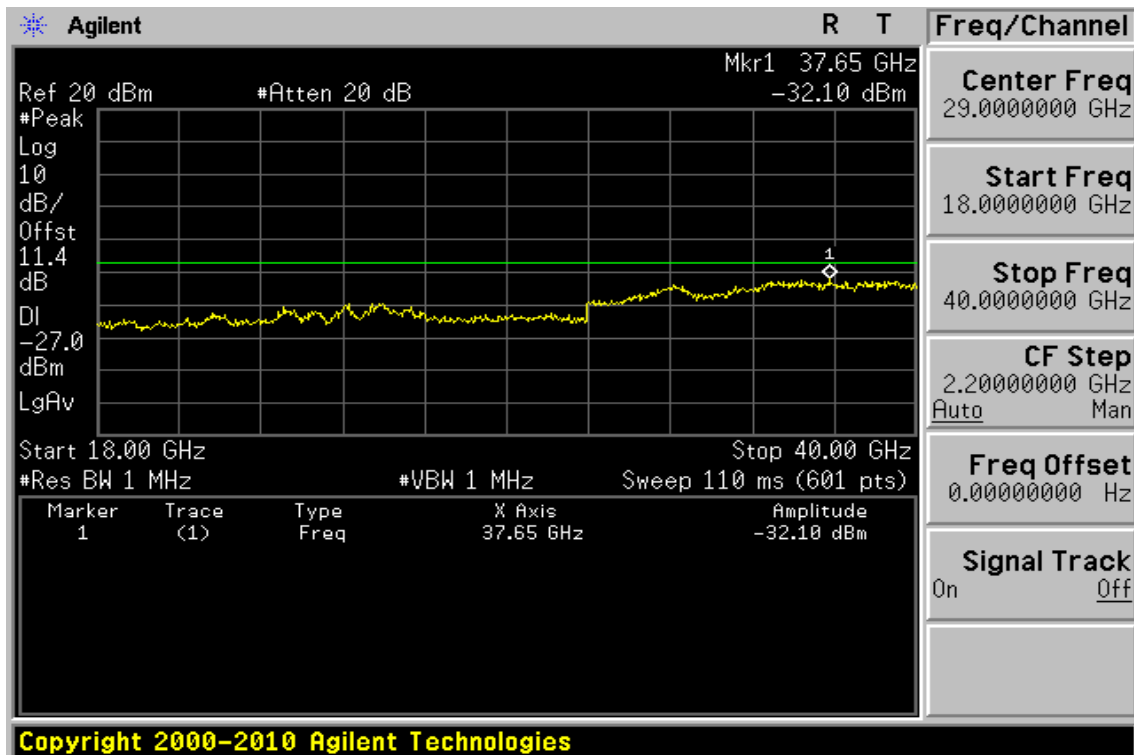
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz



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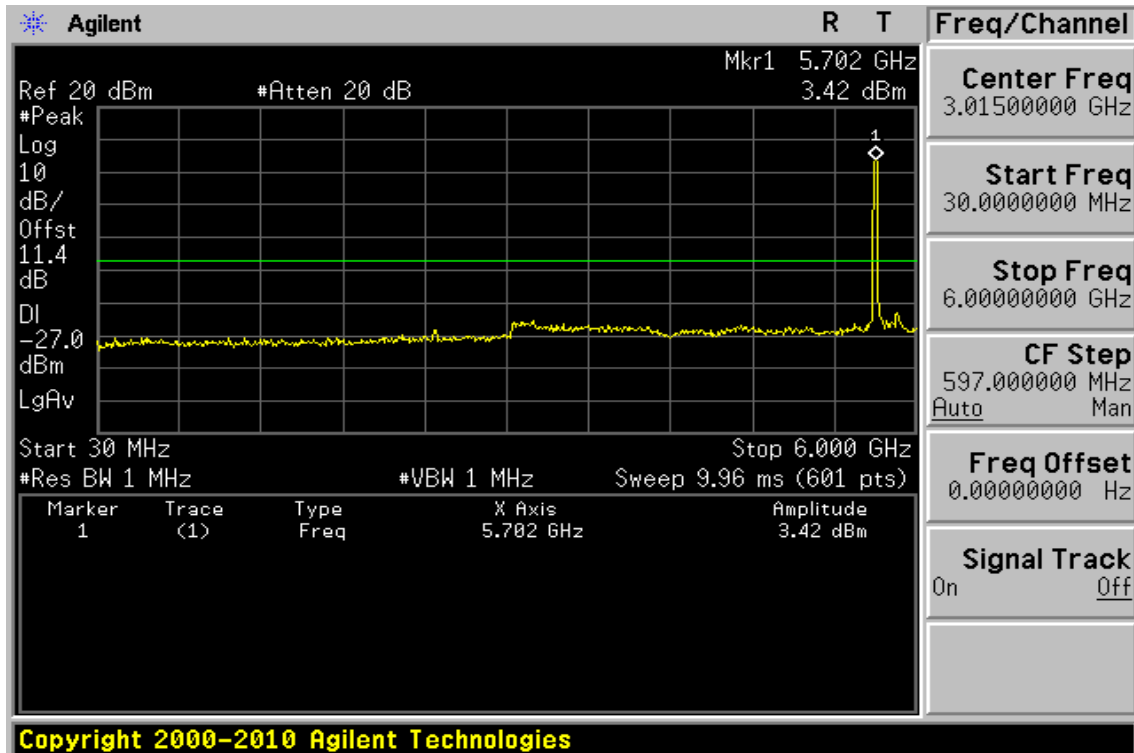
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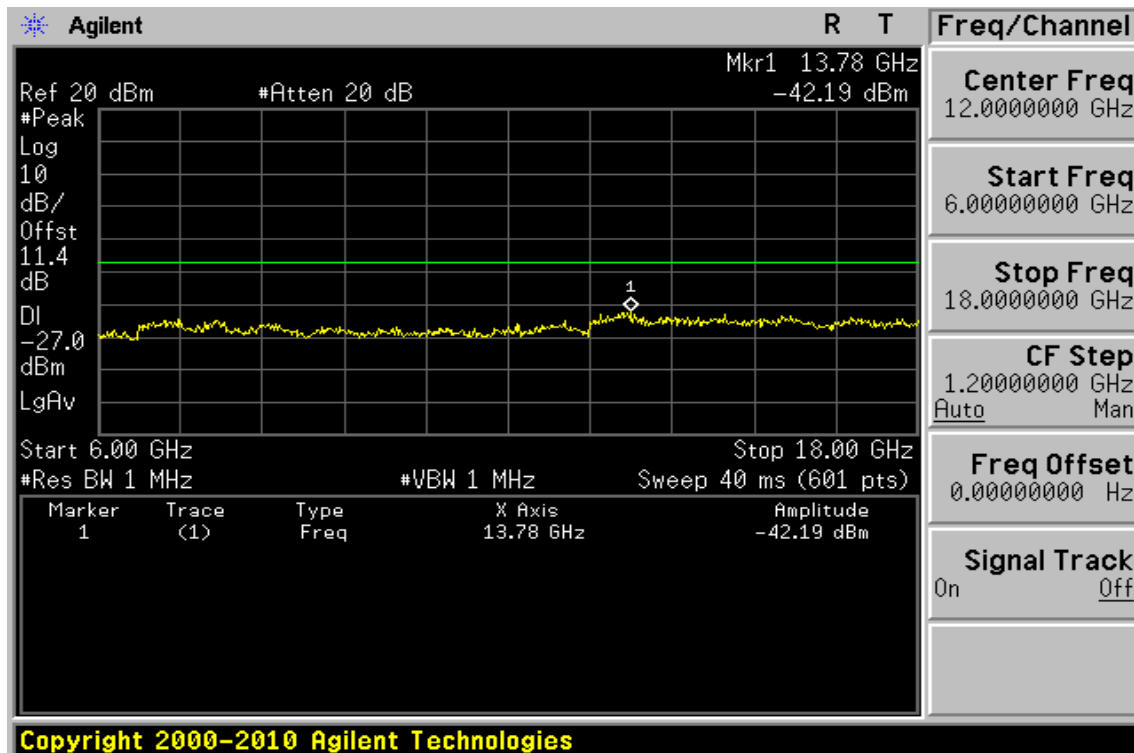
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Ch High 30MHz – 6GHz (5700 MHz)



Ch High 6GHz – 18GHz



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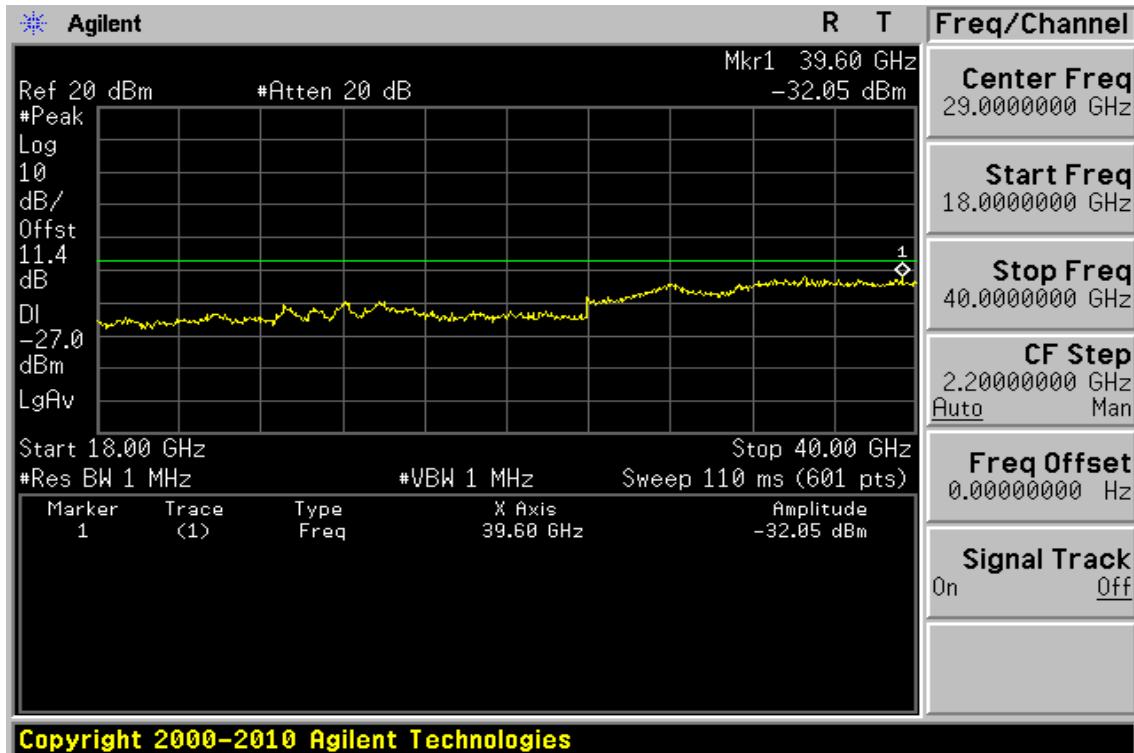
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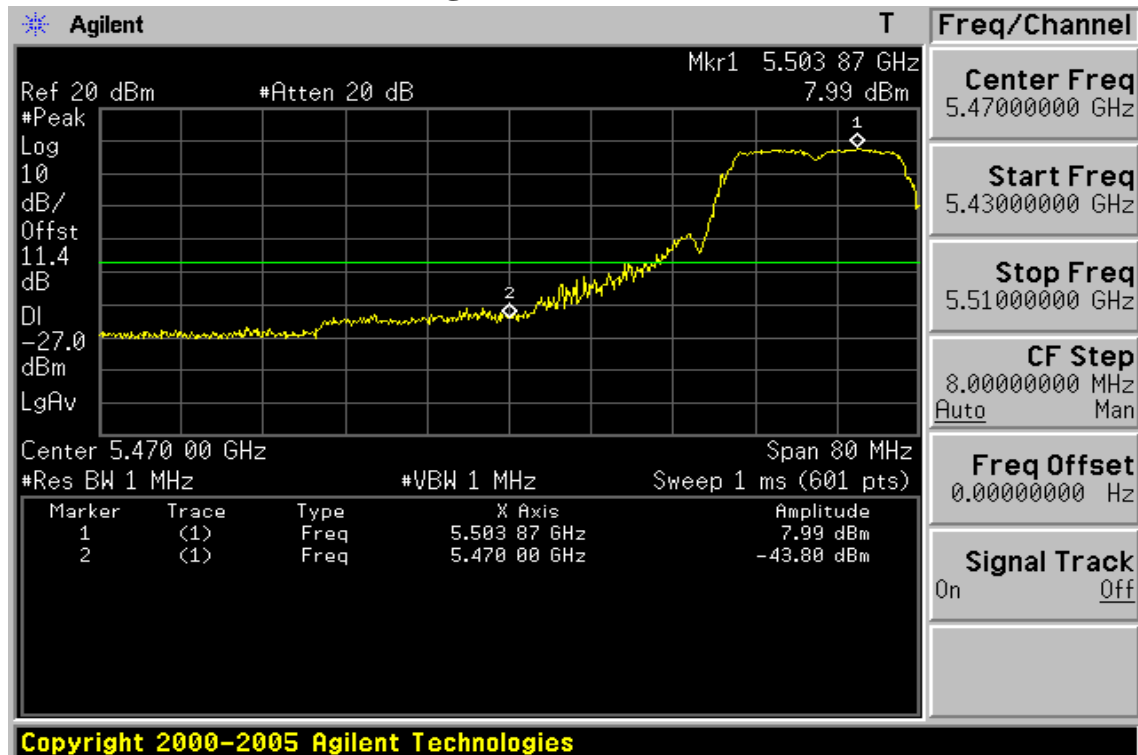
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Ch High 18GHz – 40GHz



802.11a, 5470~5725 MHz Band Edges Test Data CH 5500



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802.11a, 5470~5725 MHz Band Edges Test Data CH 5700



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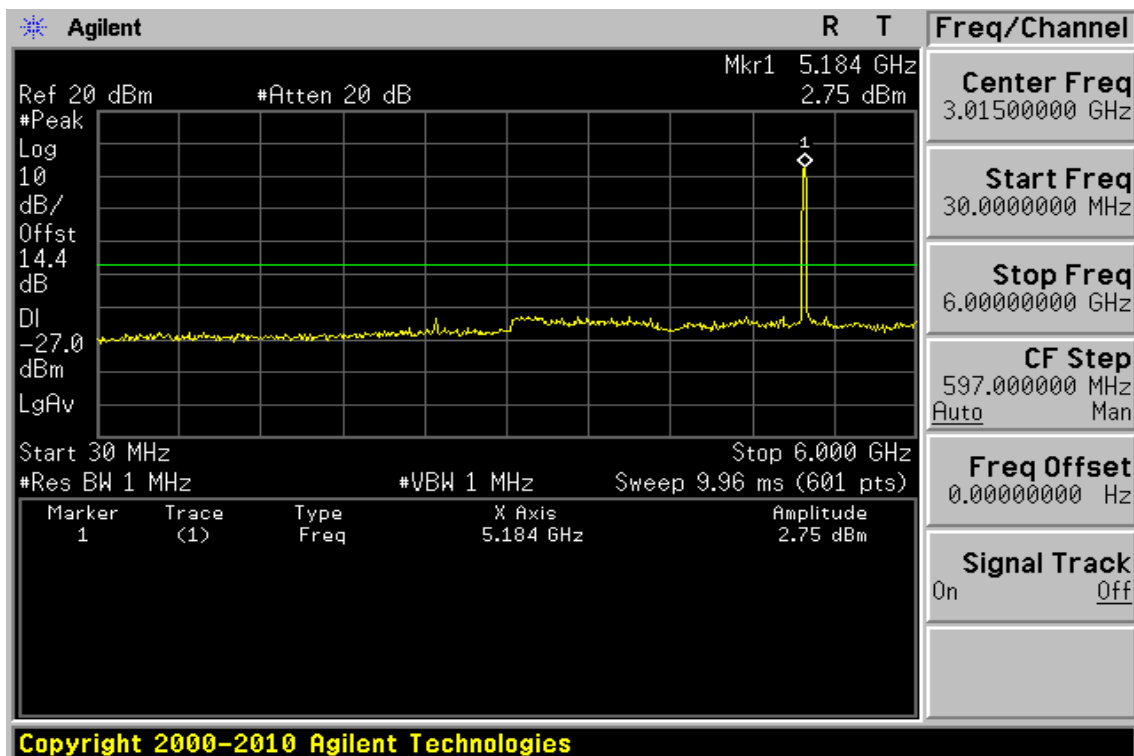
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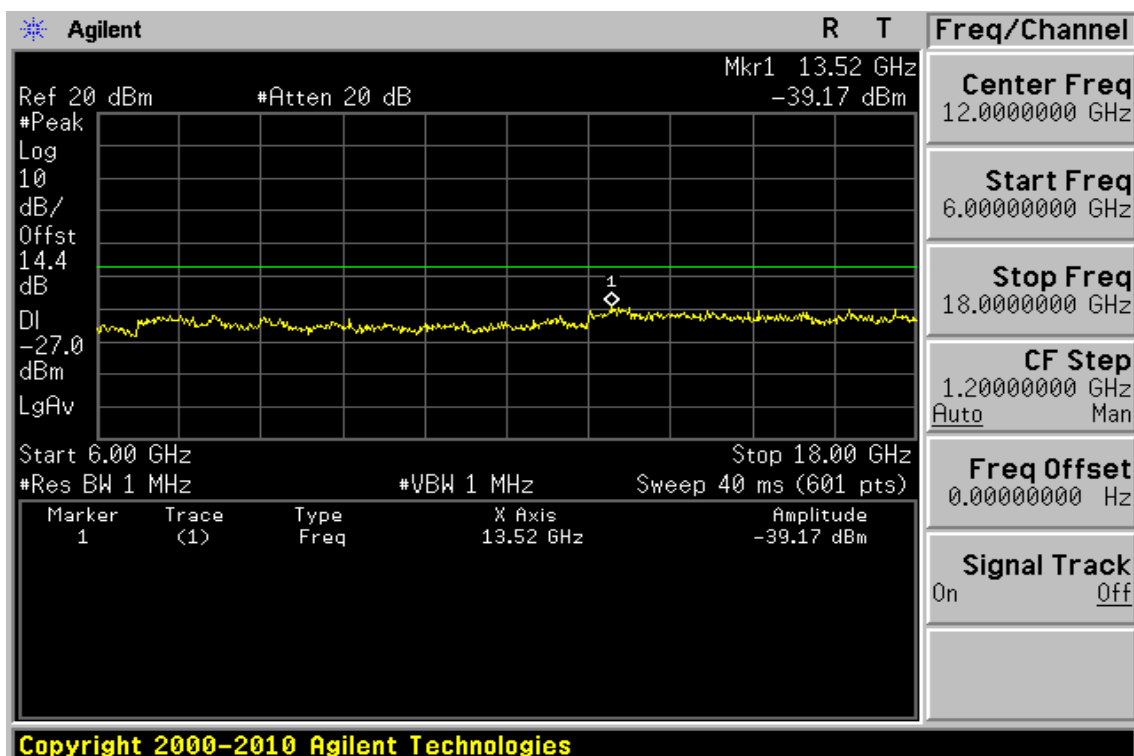
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802.11n HT20, 5150~5250 MHz Ch Low 30MHz – 6GHz (5180 MHz)



Ch Low 6GHz – 18GHz



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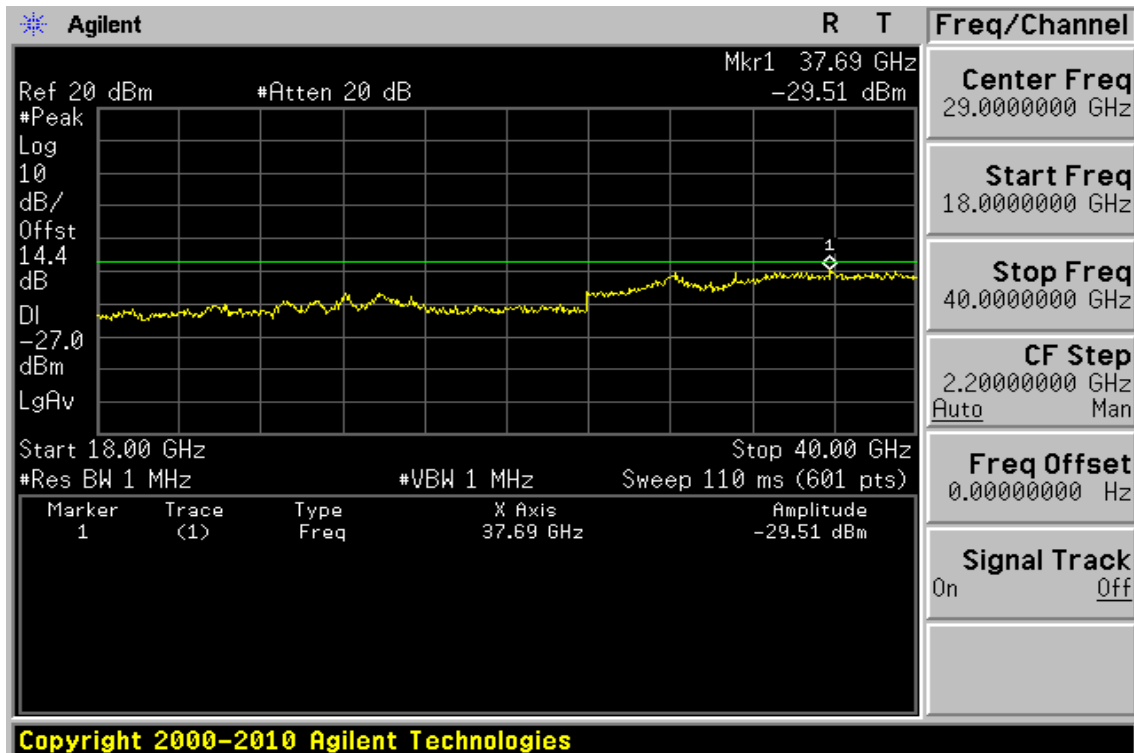
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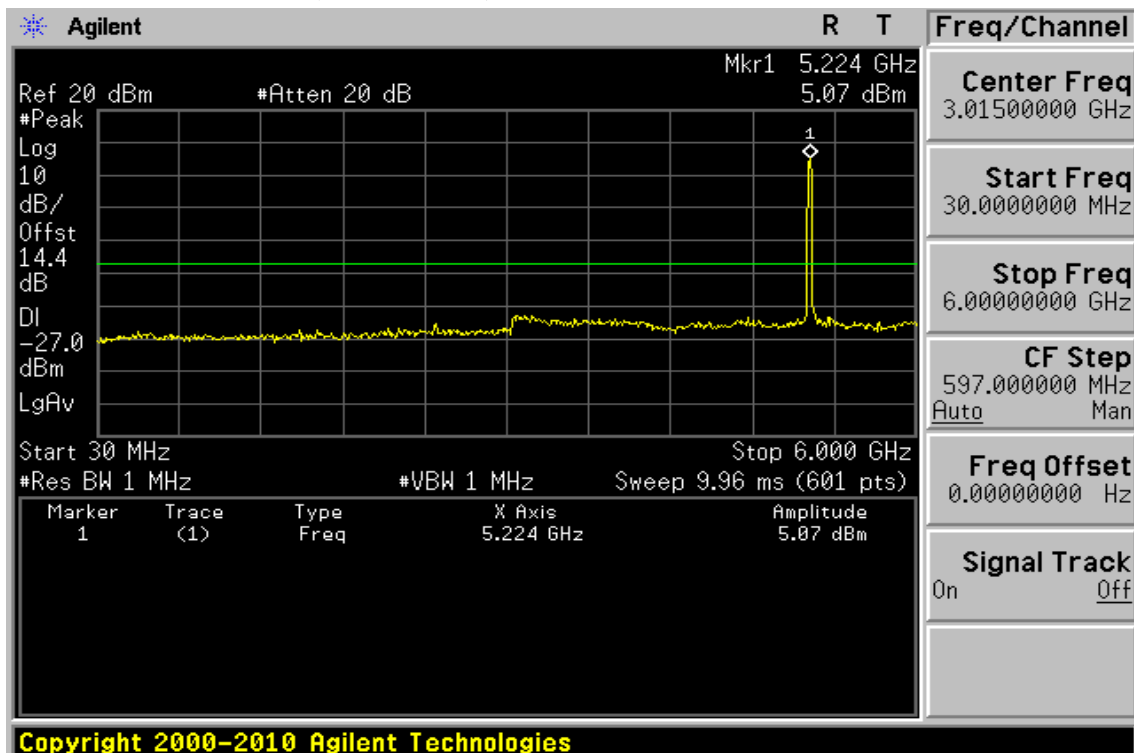
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Ch Low 18GHz – 40GHz



Ch Mid 30MHz – 6GHz (5220 MHz)



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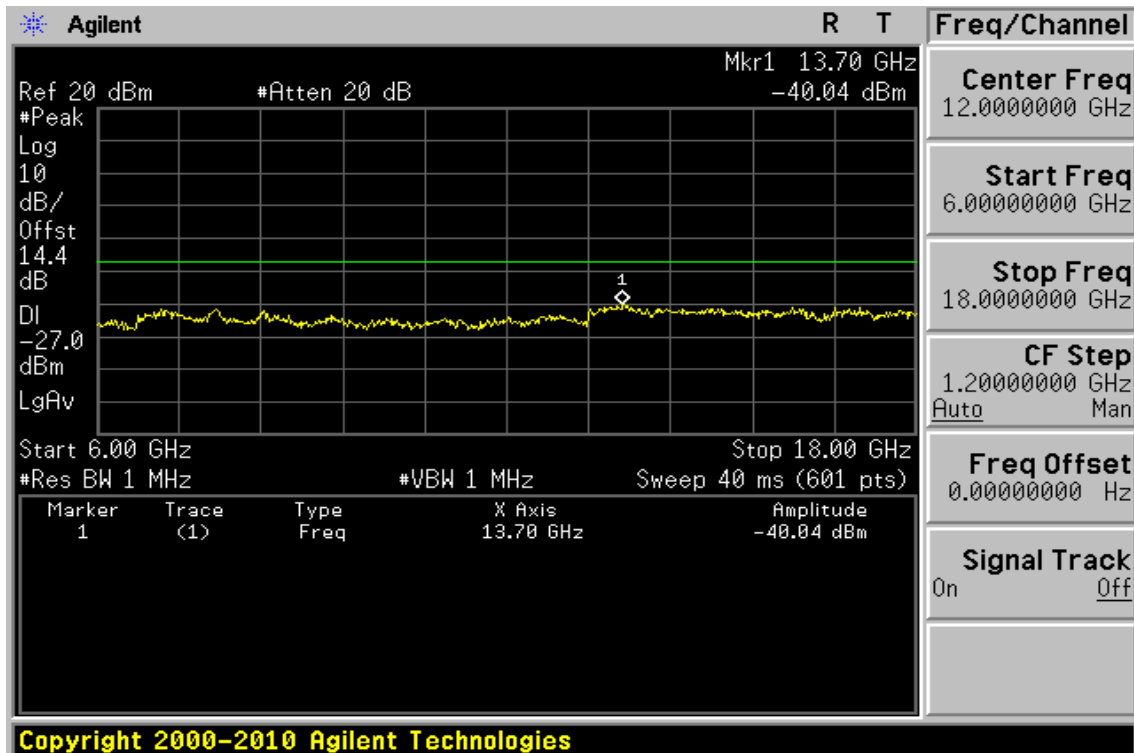
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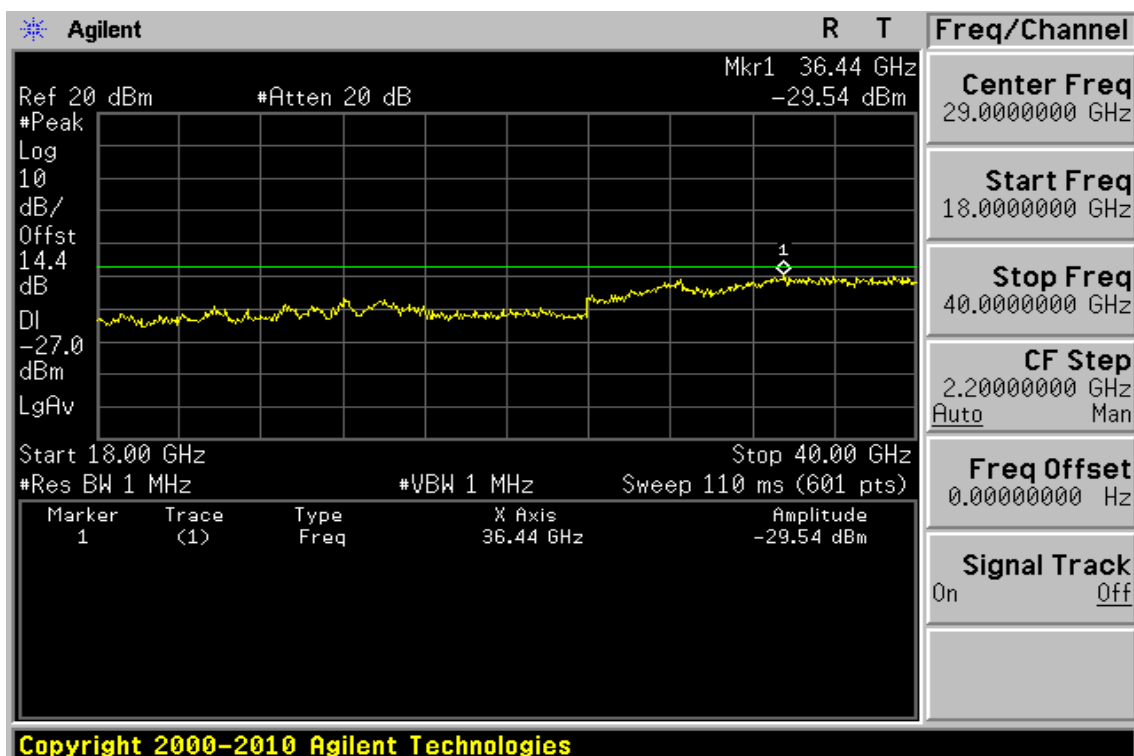
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz



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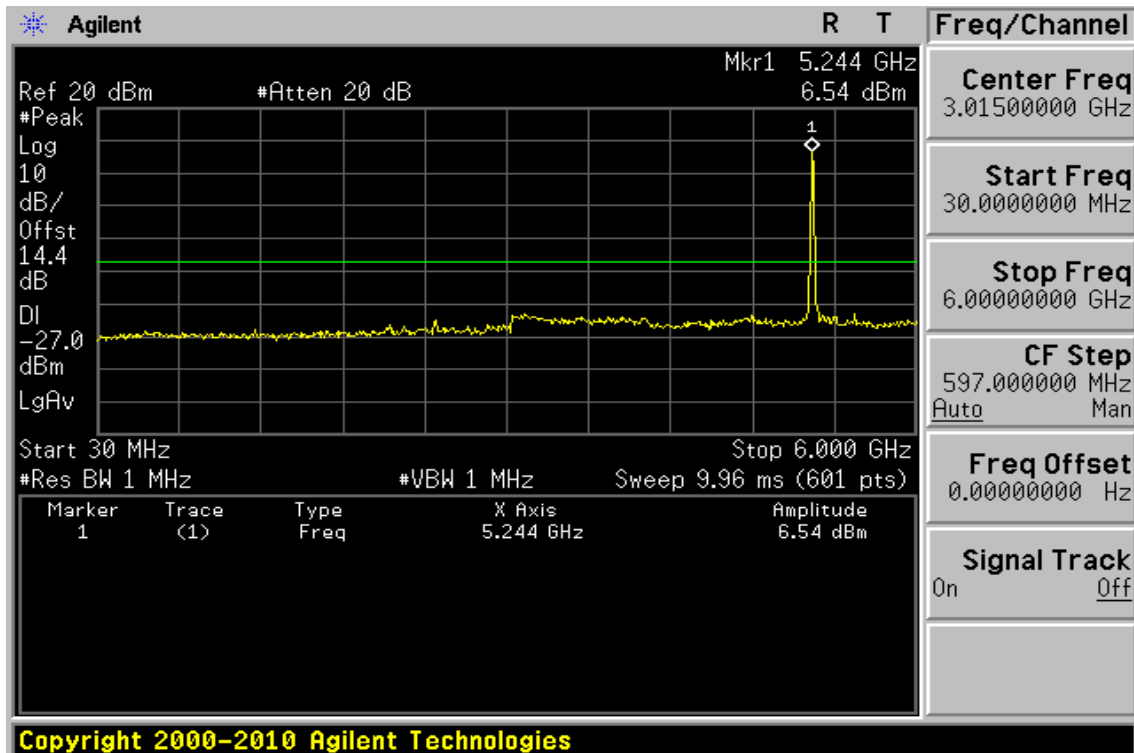
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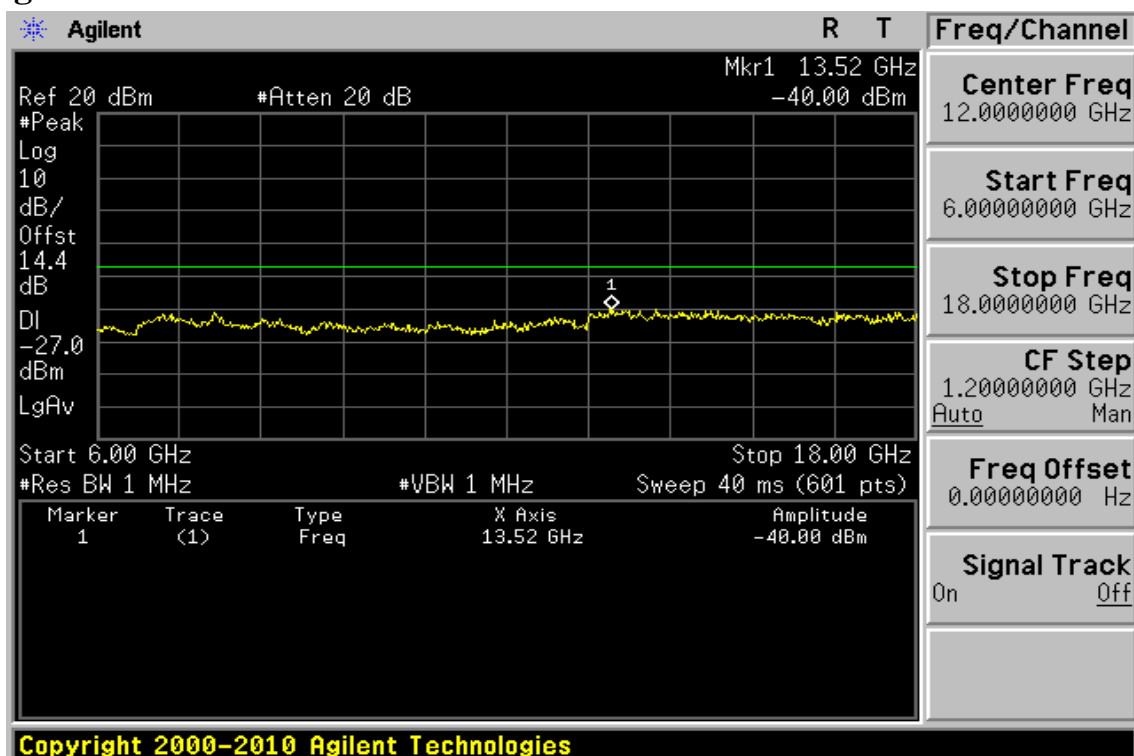
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Ch High 30MHz – 6GHz (5240 MHz)



Ch High 6GHz – 18GHz



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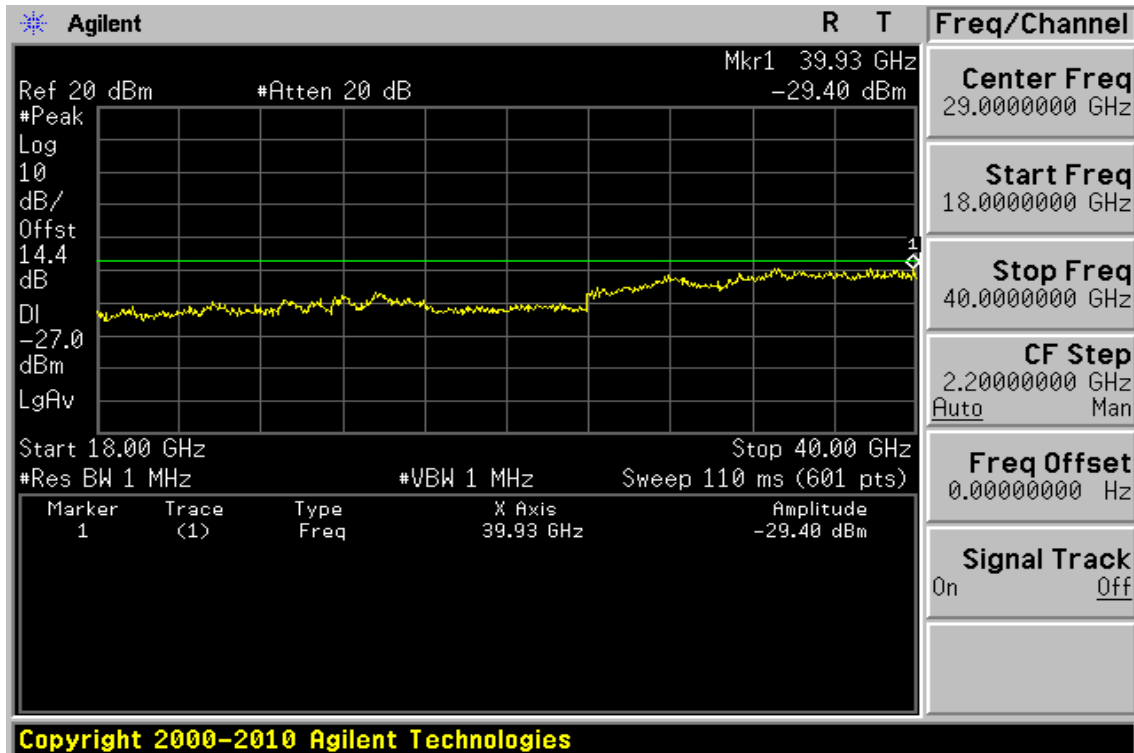
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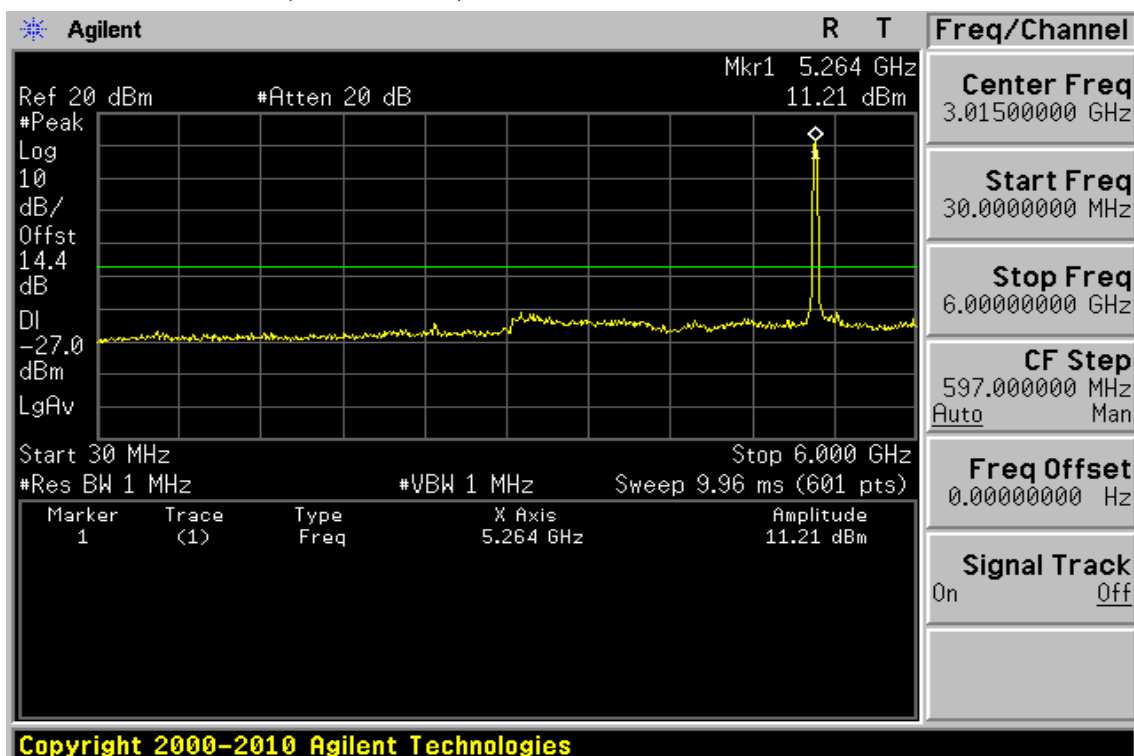
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Ch High 18GHz – 40GHz



802.11n HT20, 5250~5350 MHz

Ch Low 30MHz – 6GHz (5260 MHz)



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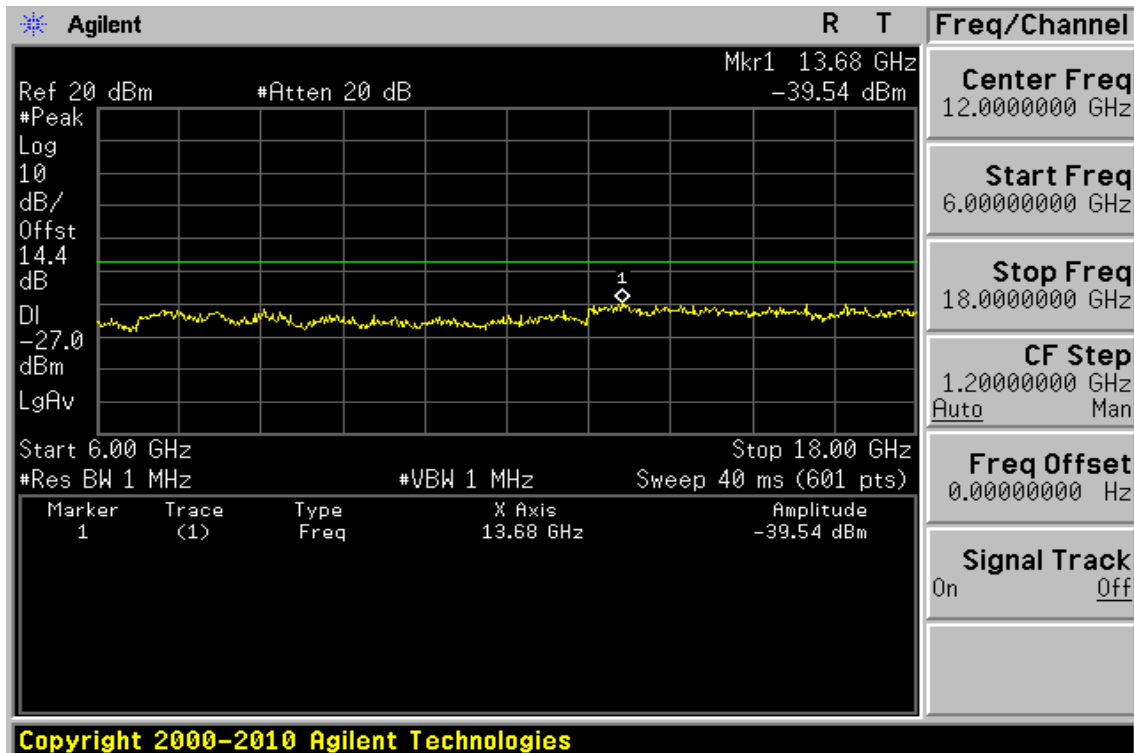
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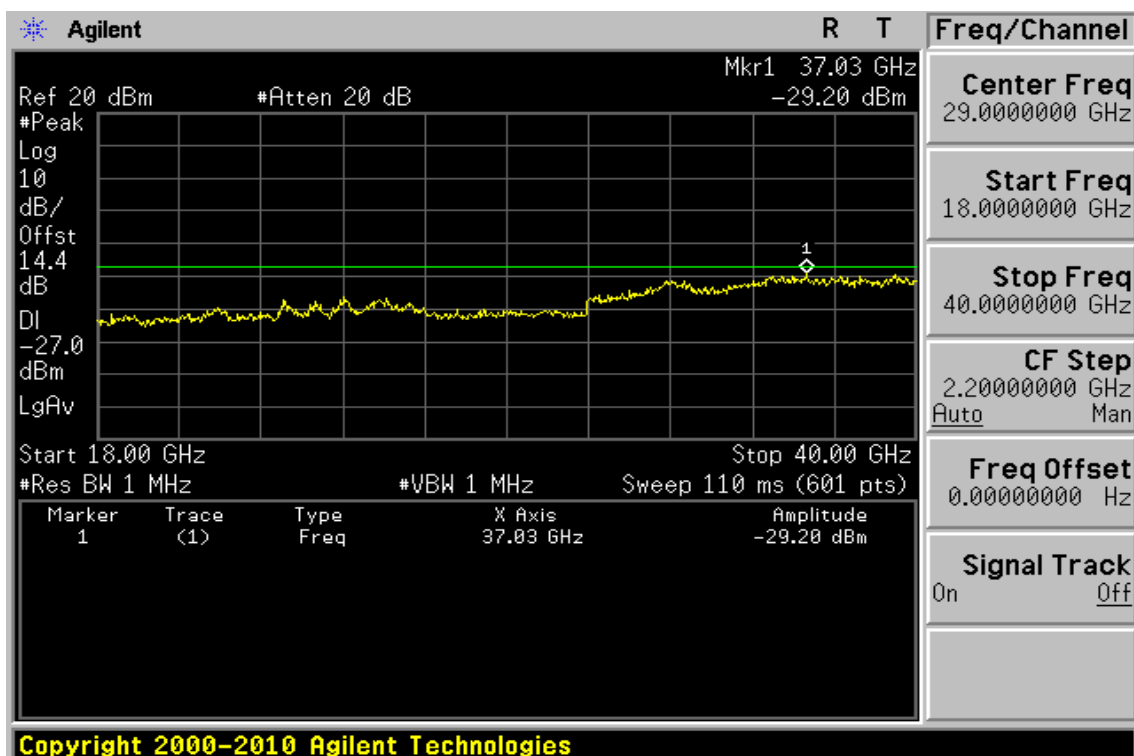
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Ch Low 6GHz – 18GHz



Ch Low 18GHz – 40GHz



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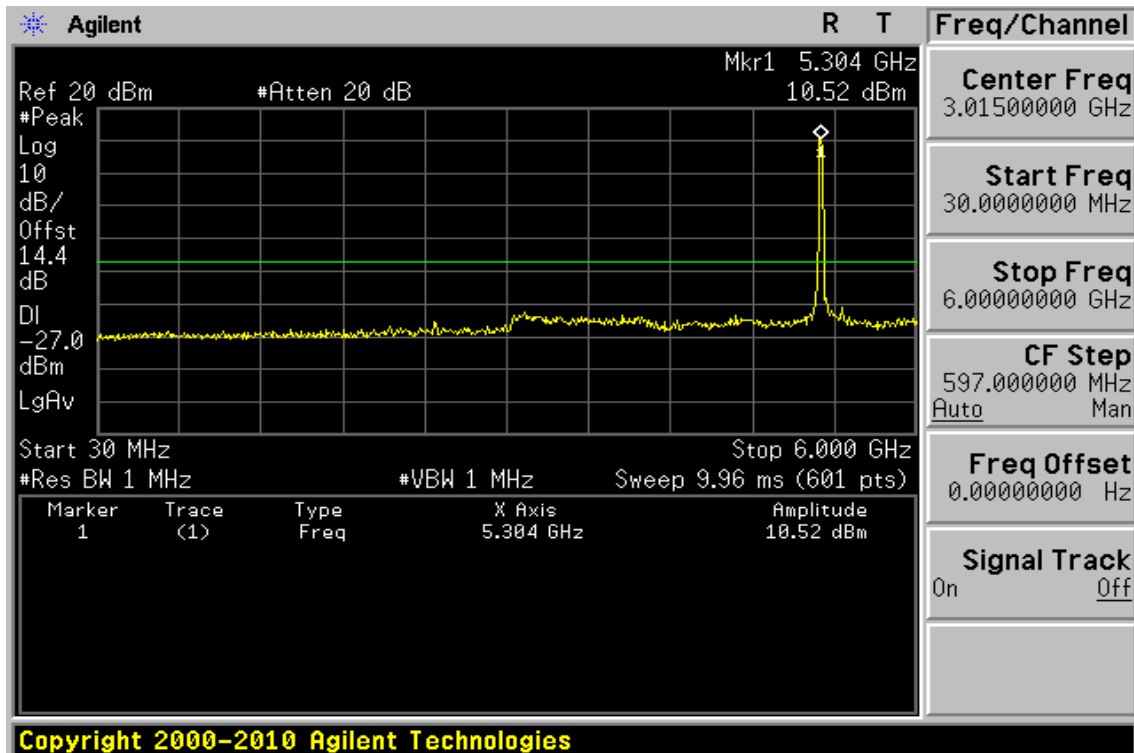
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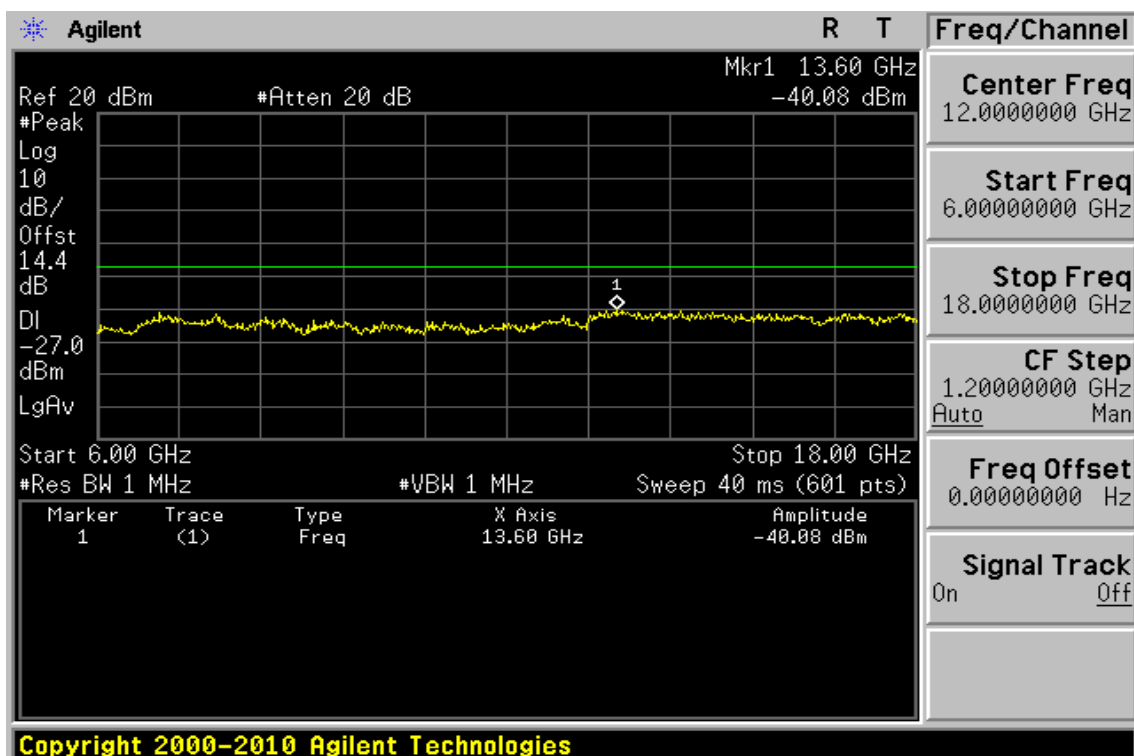
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Ch Mid 30MHz – 6GHz (5300 MHz)



Ch Mid 6GHz – 18GHz



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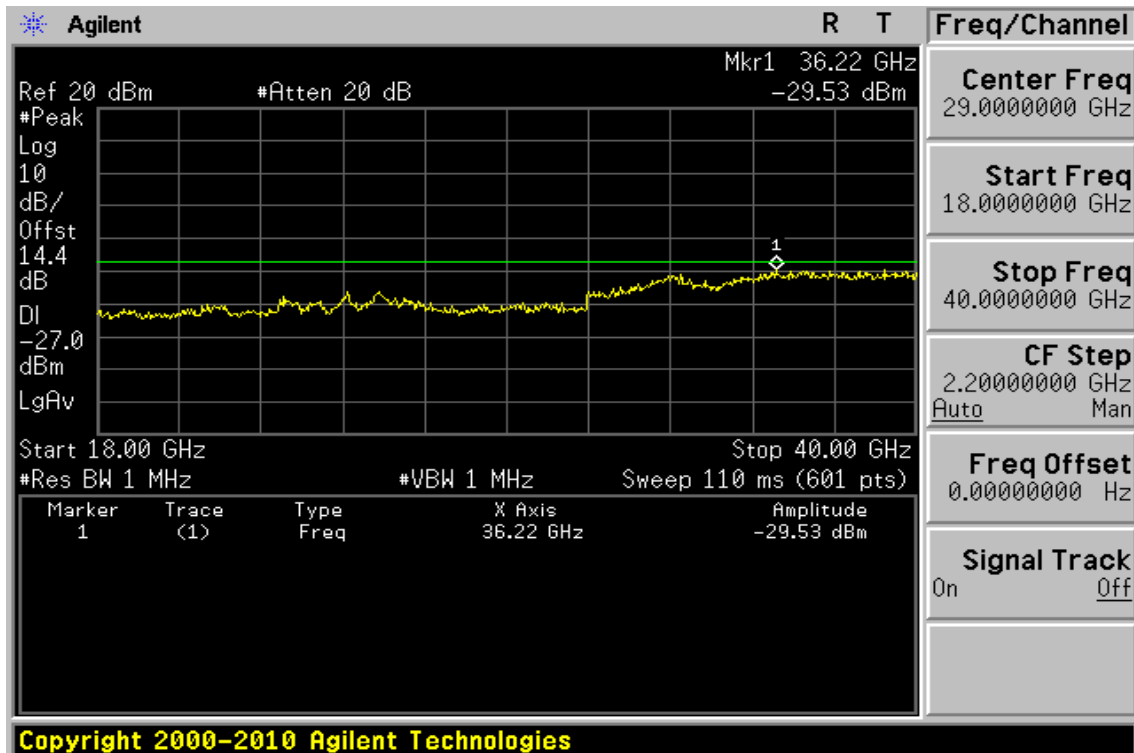
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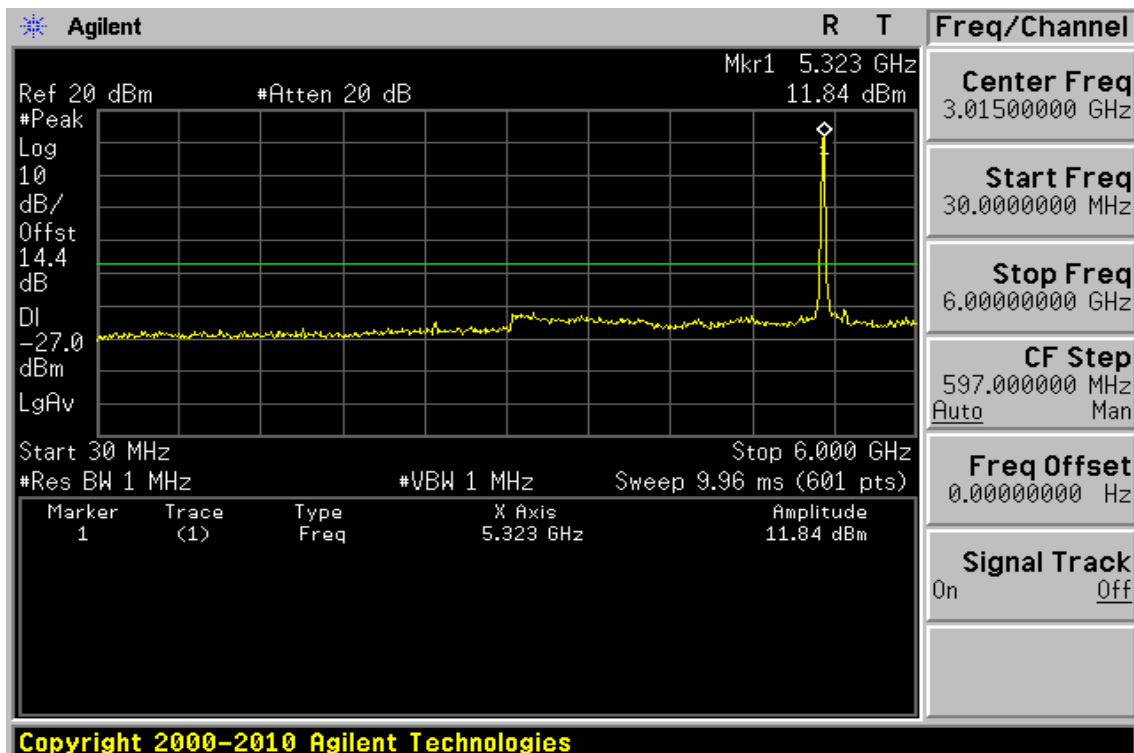
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Ch Mid 18GHz – 40GHz



Ch High 30MHz – 6GHz (5320 MHz)



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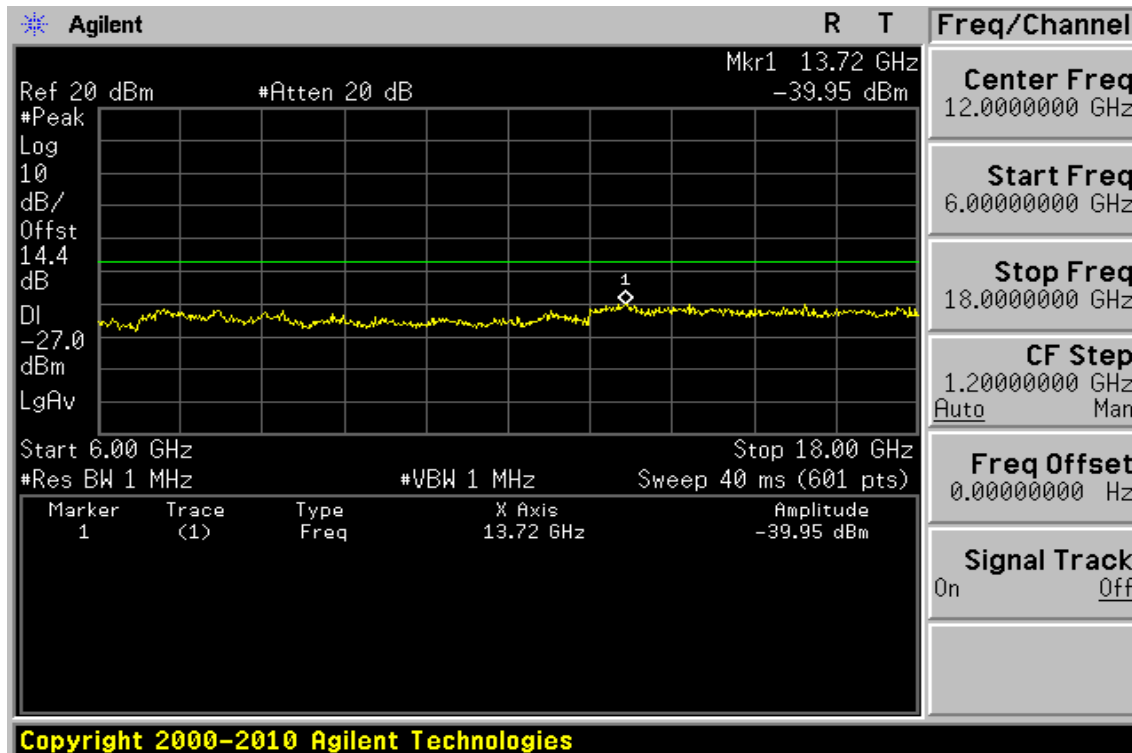
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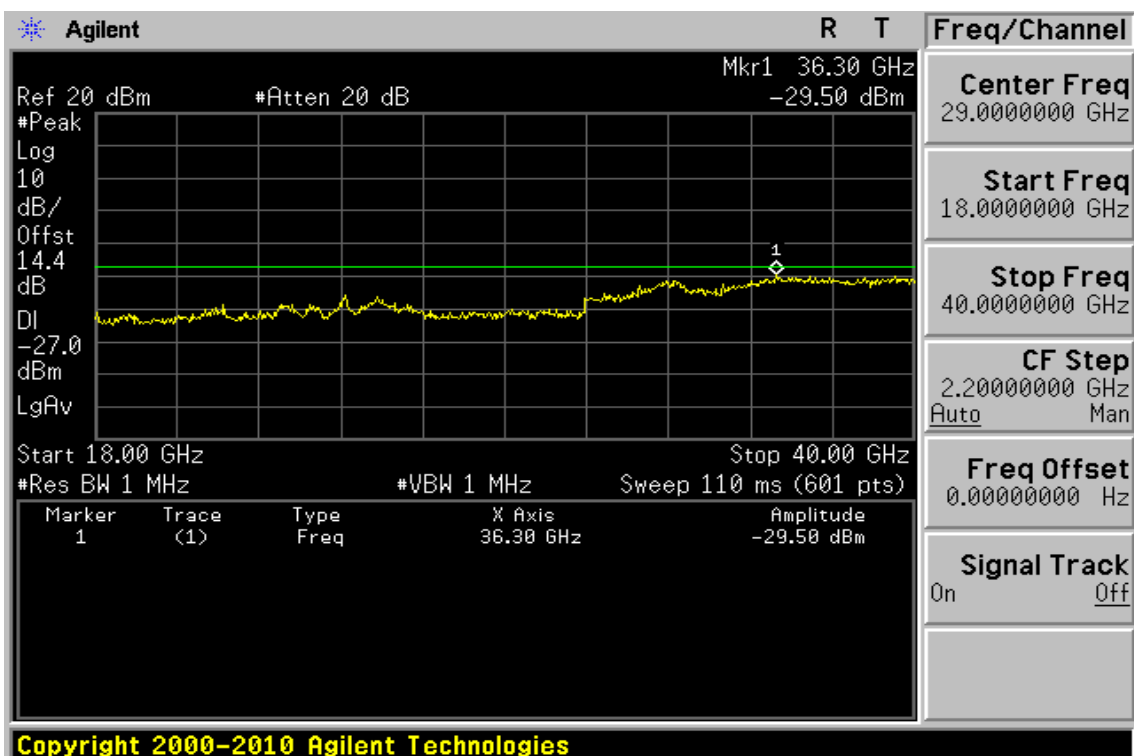
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz



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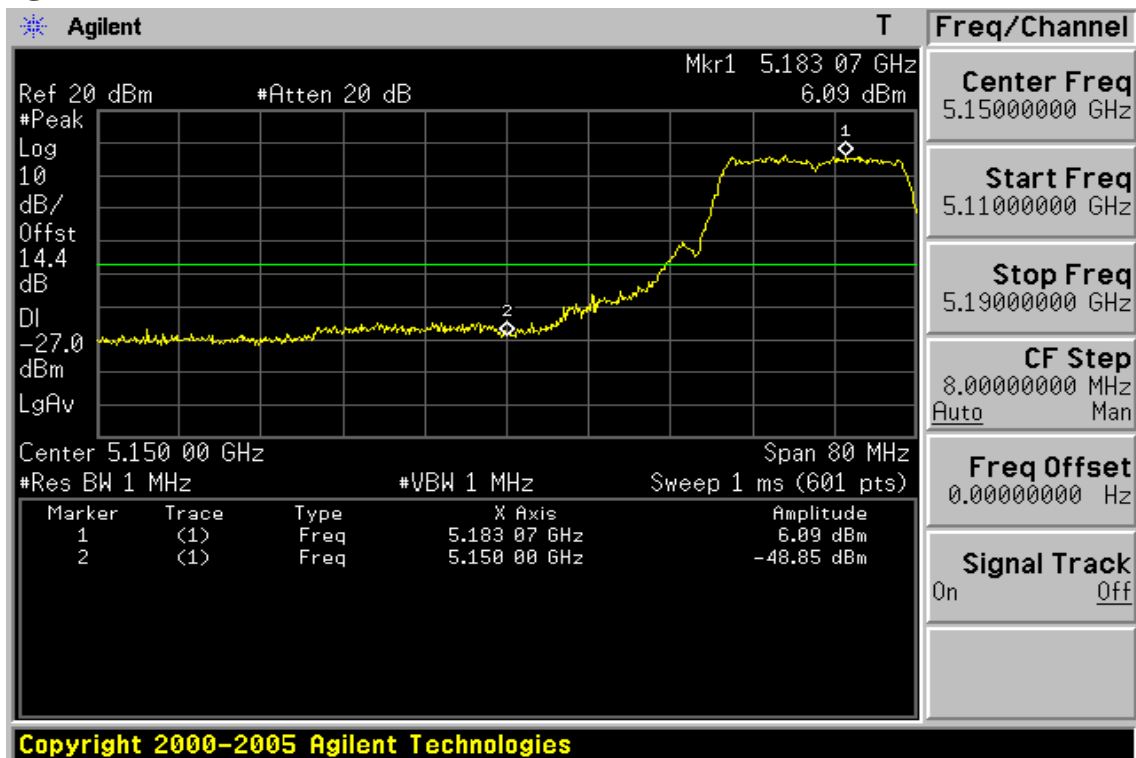
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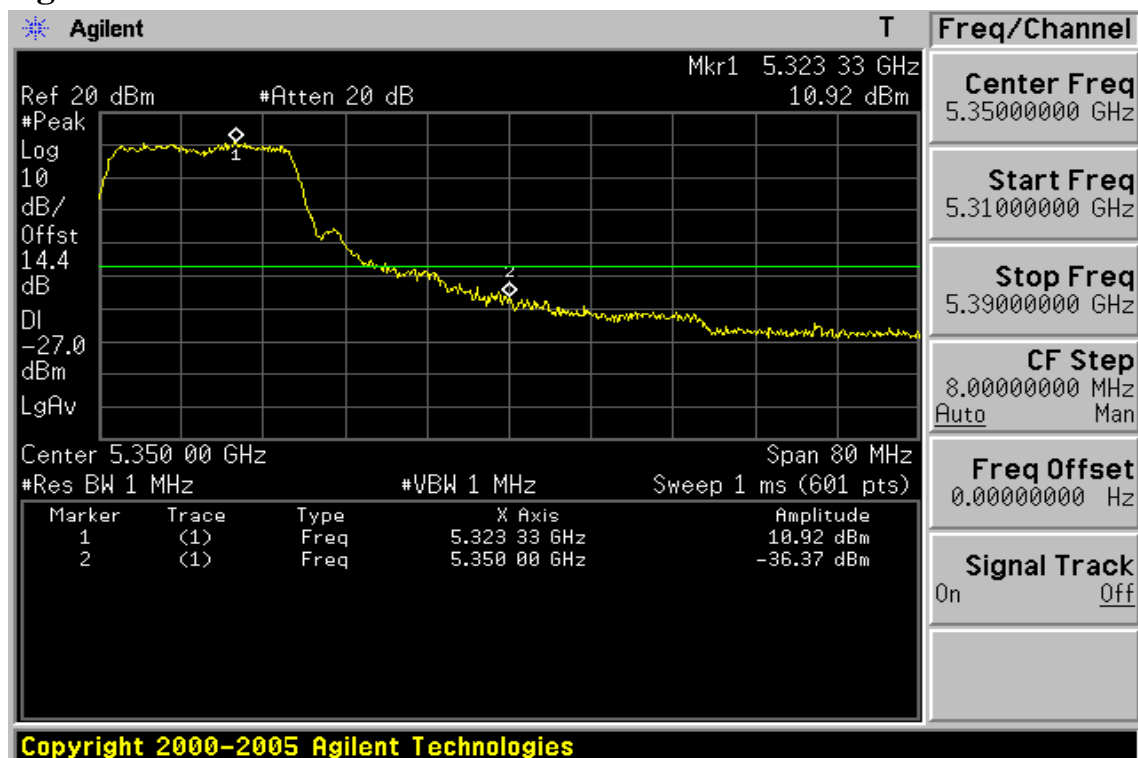
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802.11n HT20, 5150~5350 MHz Band Edges Test Data CH 5150



Band Edges Test Data CH 5350



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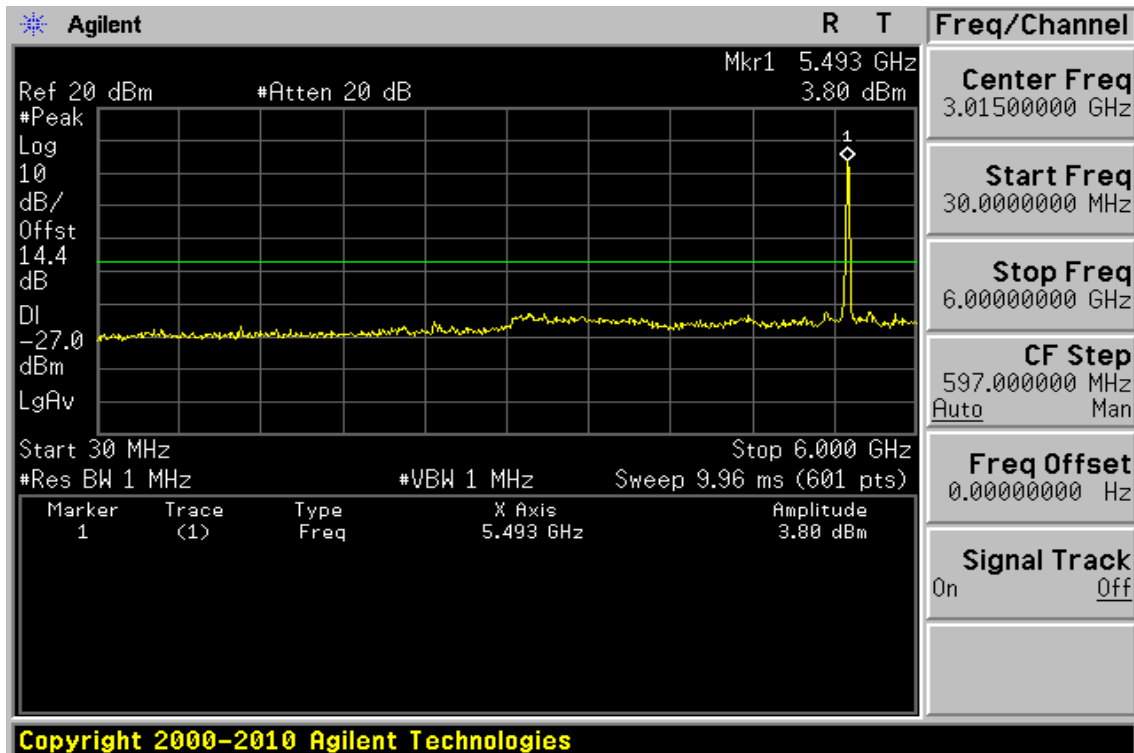
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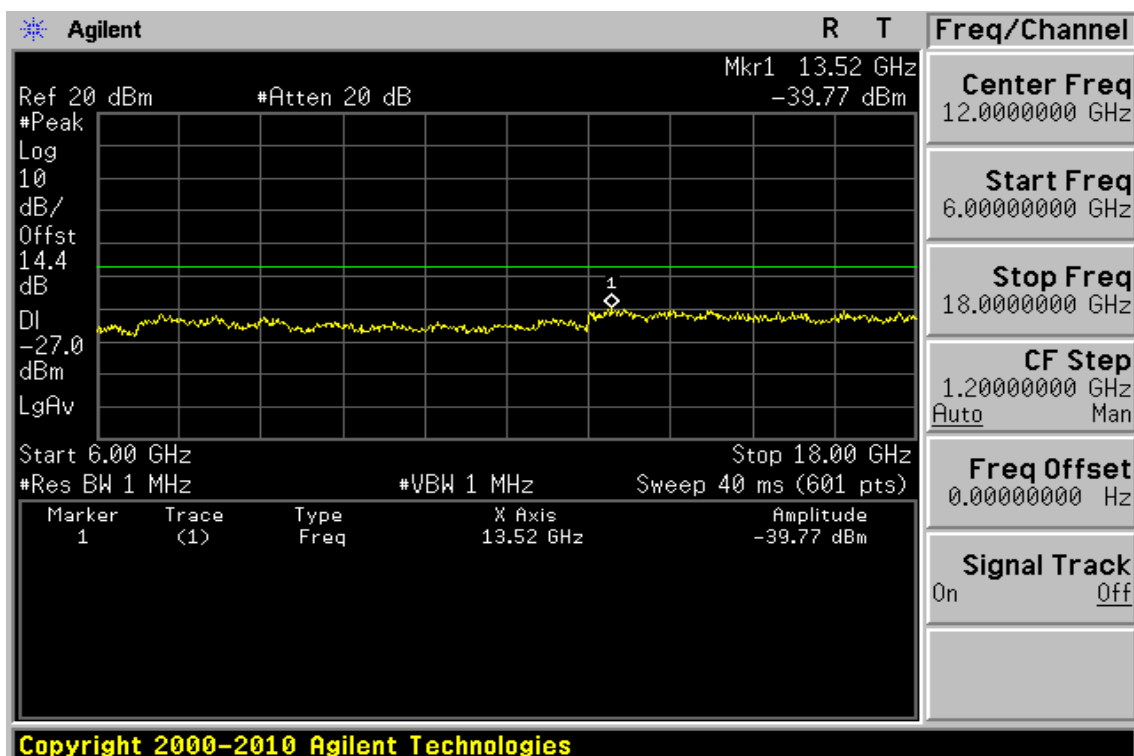
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802.11n HT20, 5470~5725 MHz Ch Low 30MHz – 6GHz (5500 MHz)



Ch Low 6GHz – 18GHz



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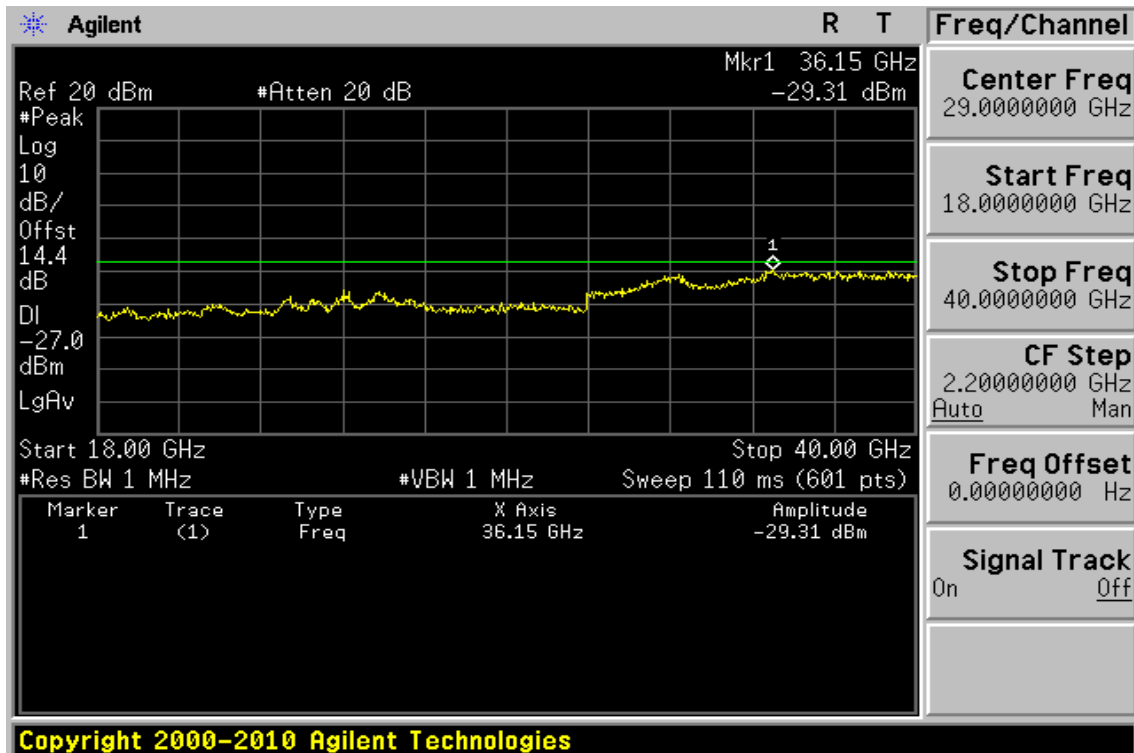
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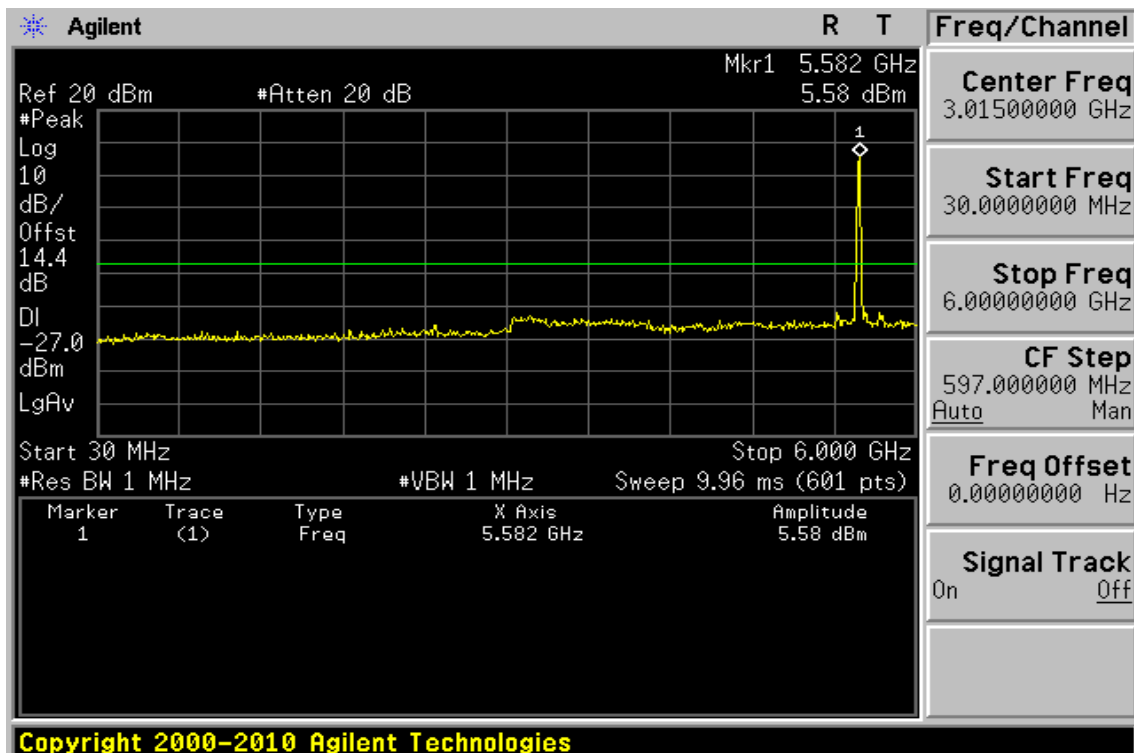
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Ch Low 18GHz – 40GHz



Ch Mid 30MHz – 6GHz (5580 MHz)



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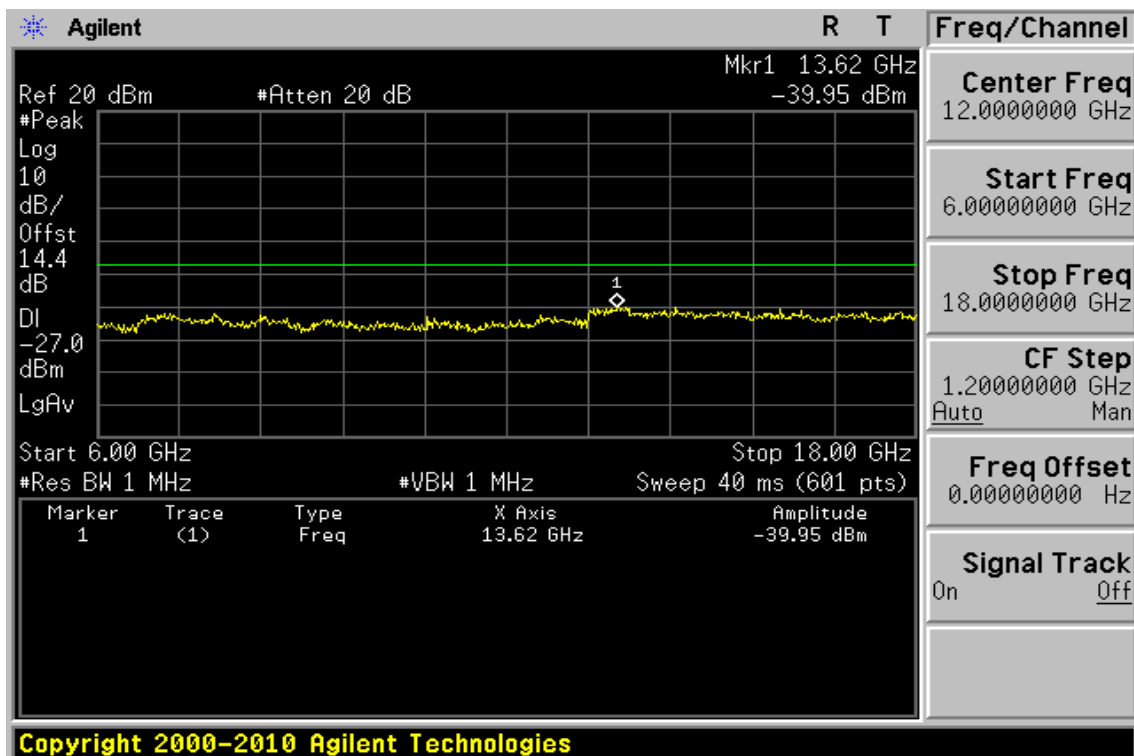
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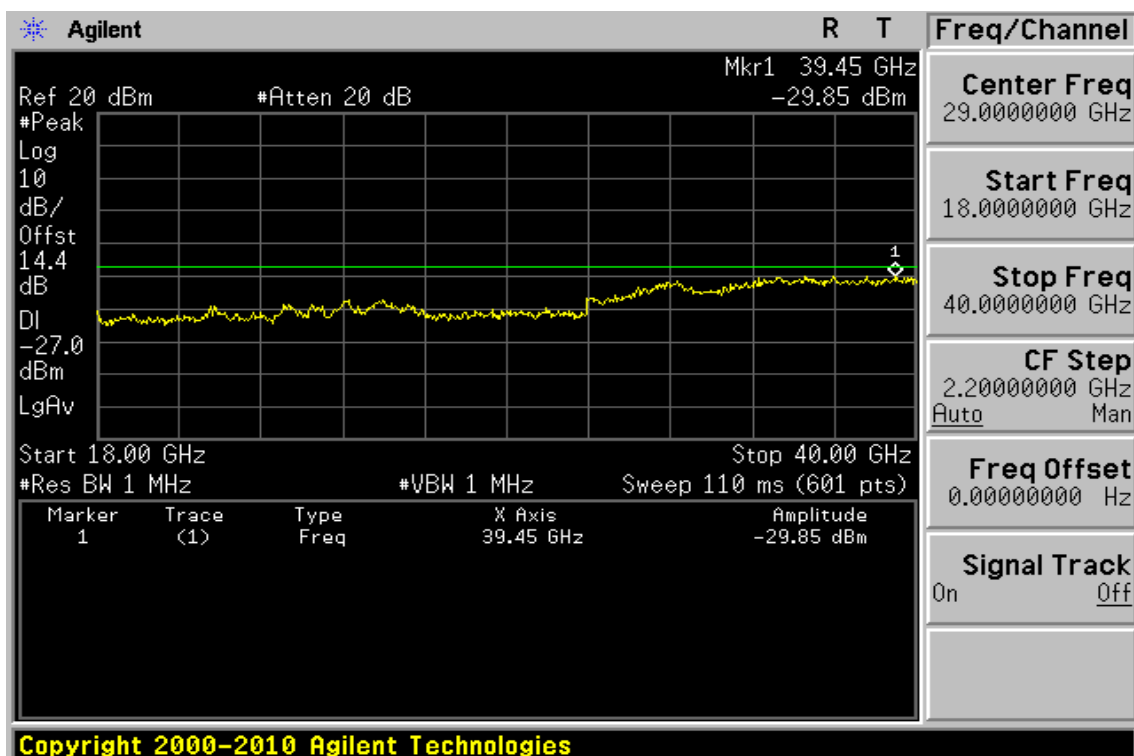
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz



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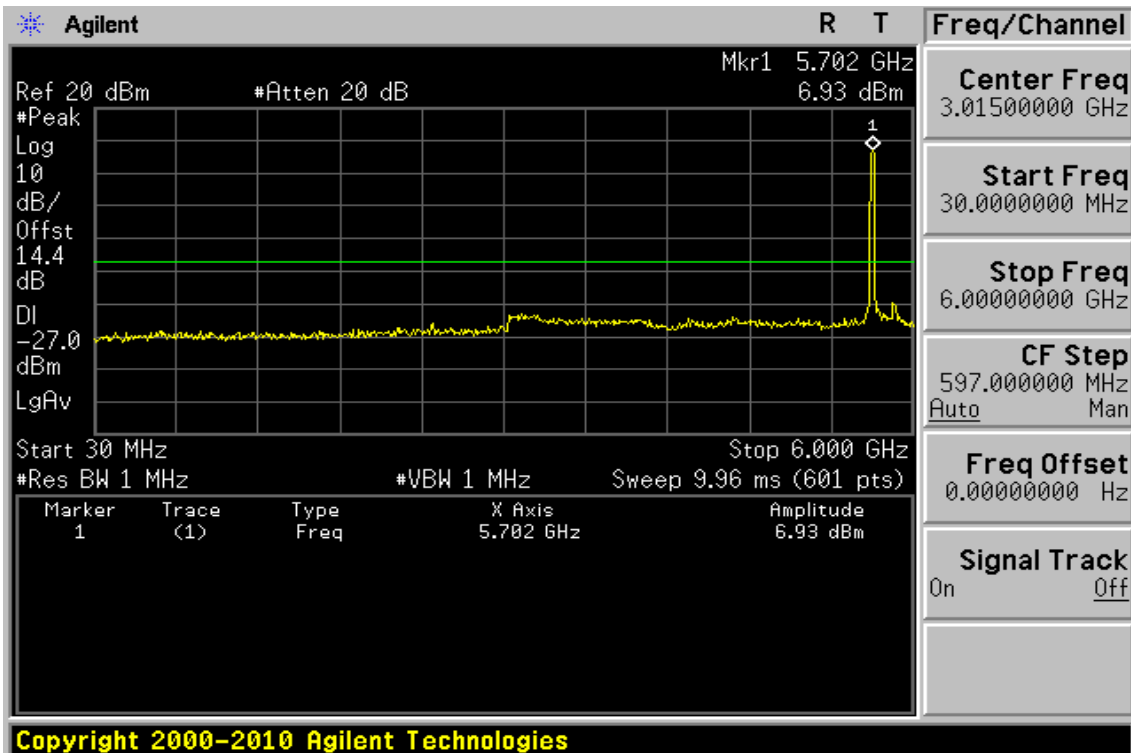
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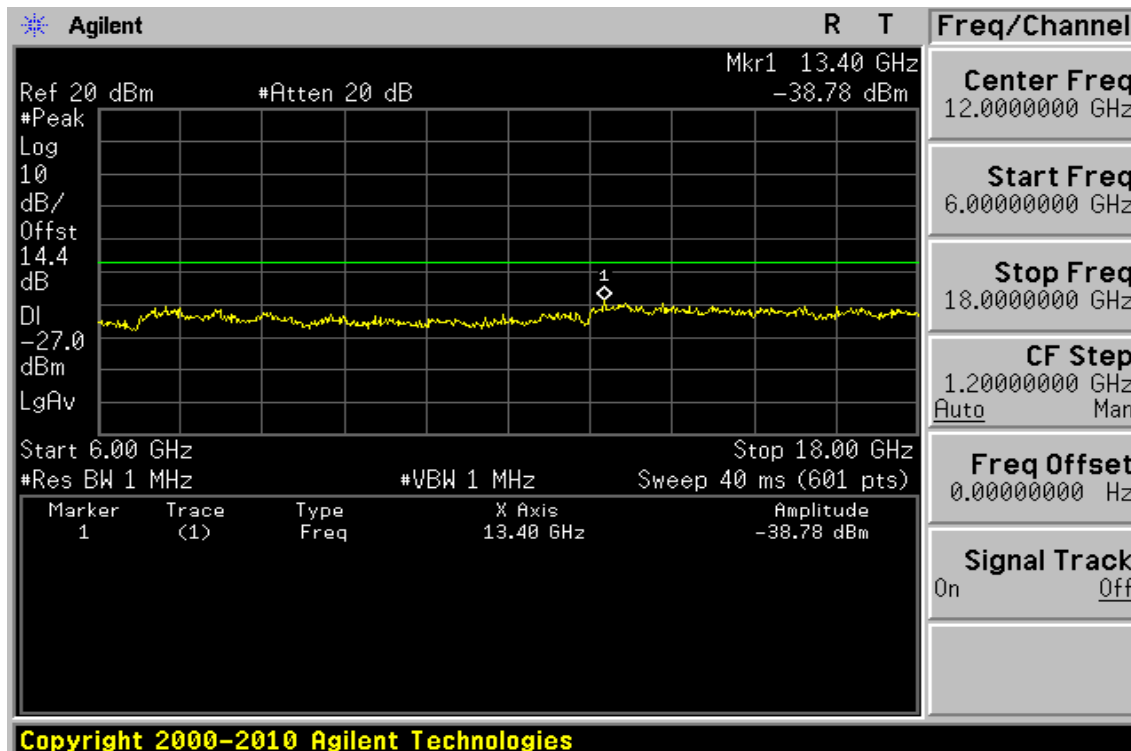
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Ch High 30MHz – 6GHz (5700 MHz)



Ch High 6GHz – 18GHz



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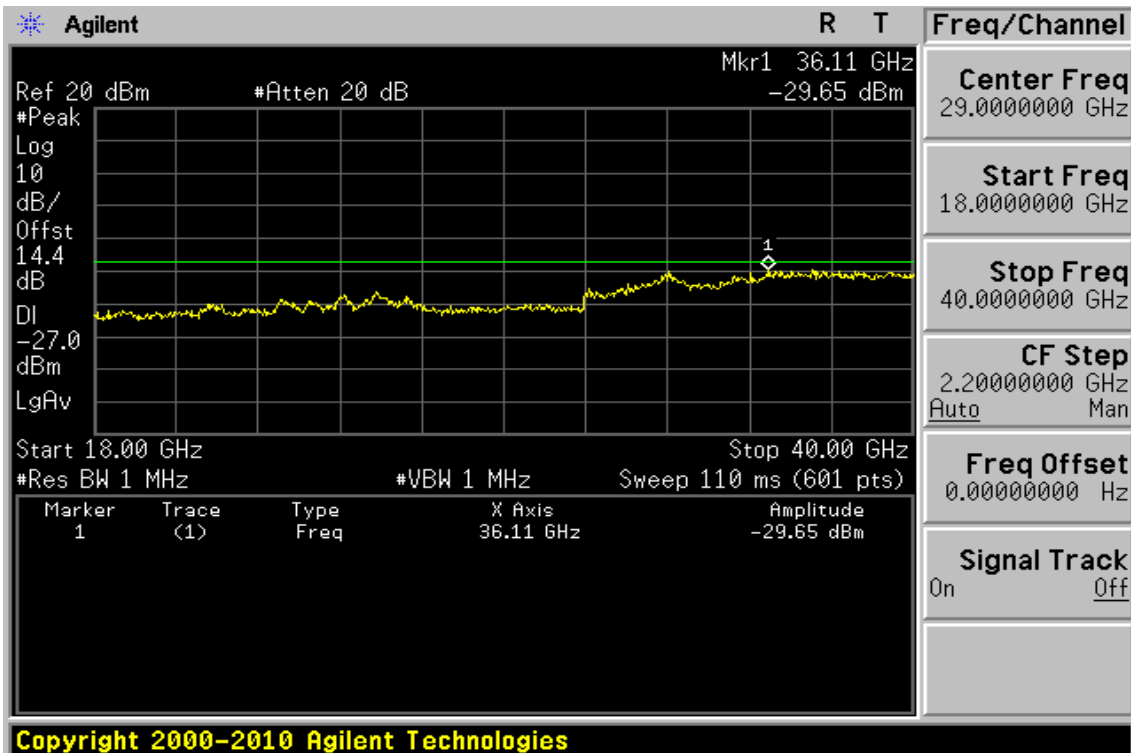
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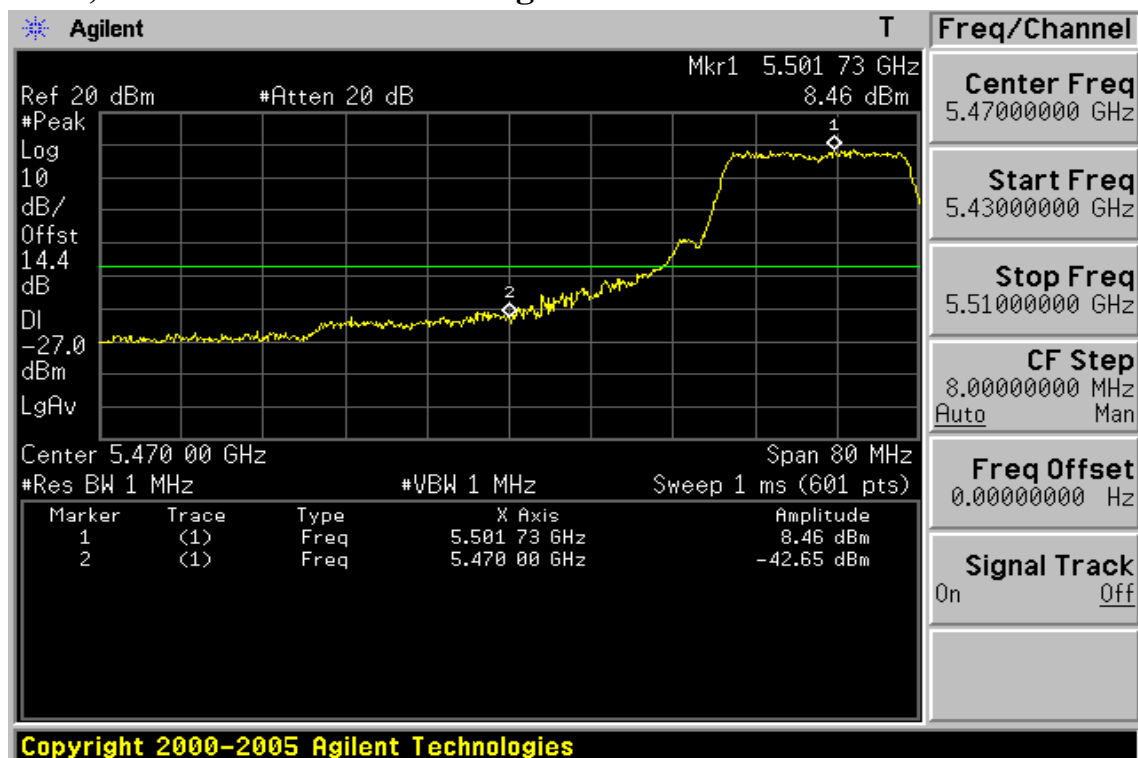
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Ch High 18GHz – 40GHz



802.11n HT20, 5470~5725 MHz Band Edges Test Data CH 5500



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802.11n HT20, 5470~5725 MHz Band Edges Test Data CH 5700



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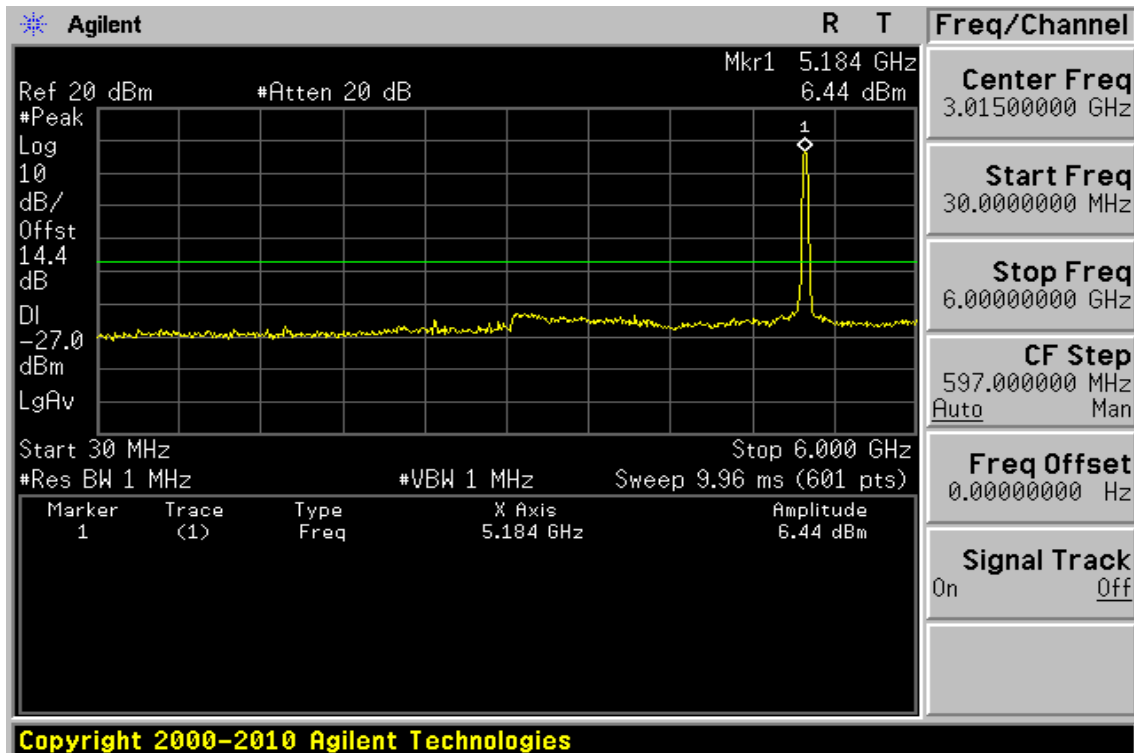
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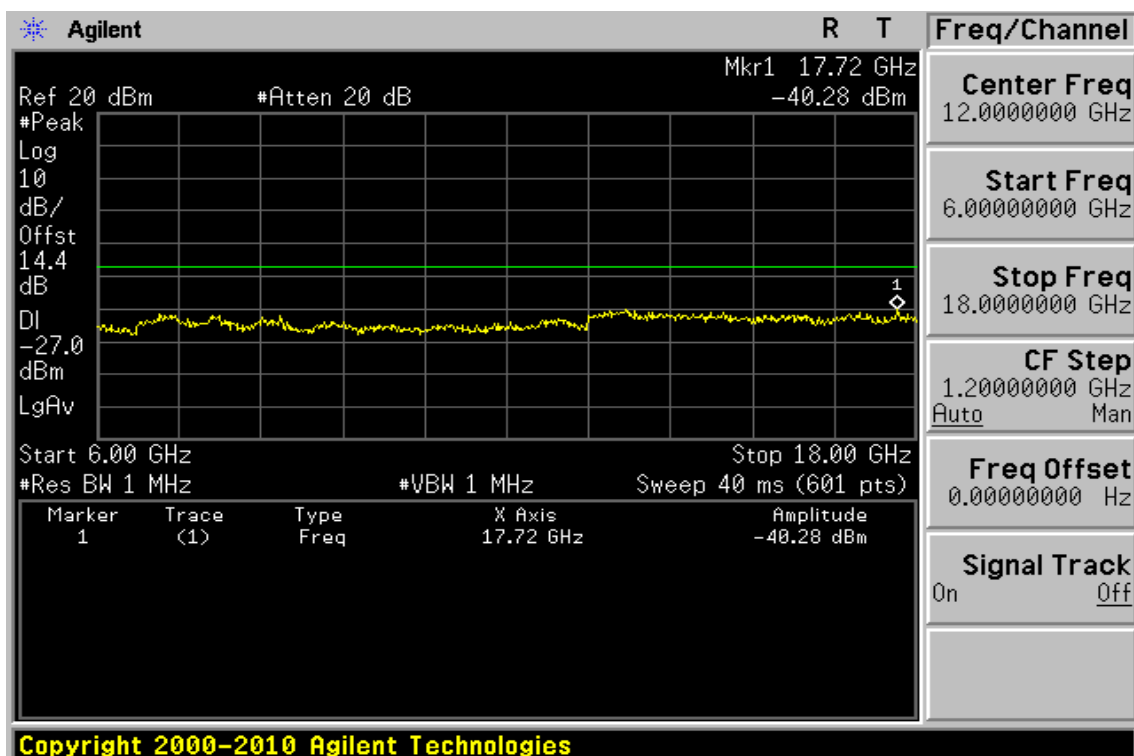
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802.11n HT40, 5150~5250 MHz Ch Low 30MHz – 6GHz (5190 MHz)



Ch Low 6GHz – 18GHz



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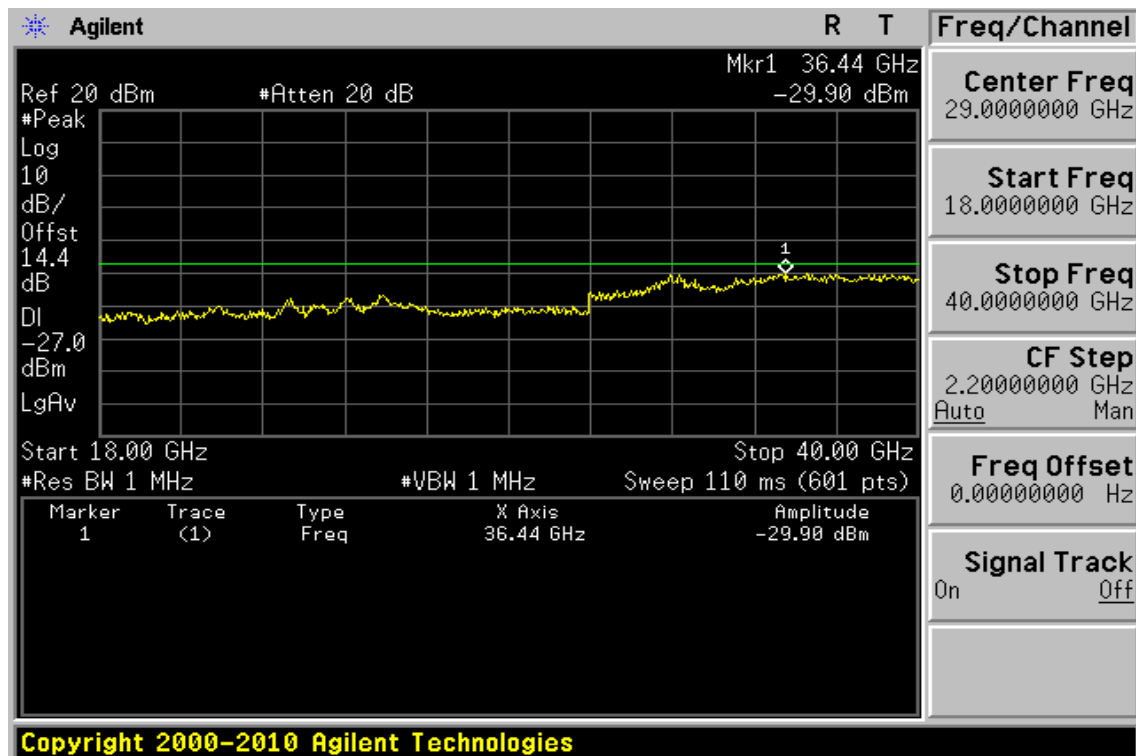
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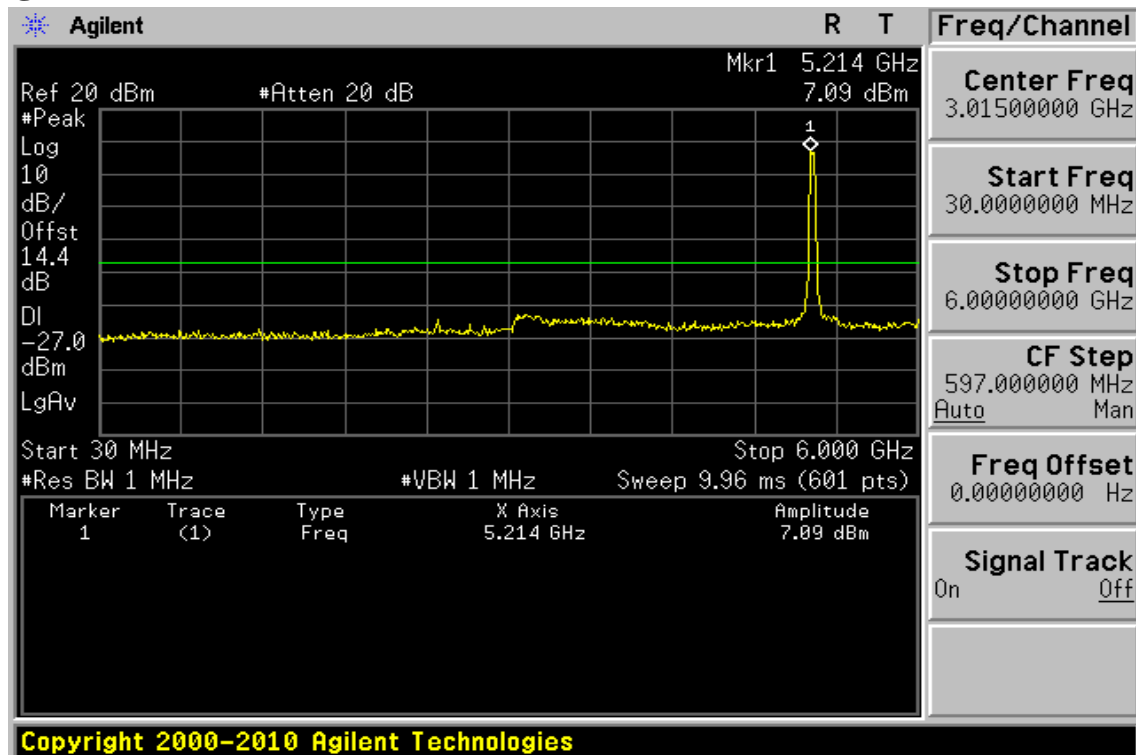
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Ch Low 18GHz – 40GHz



Ch High 30MHz – 6GHz (5230 MHz)



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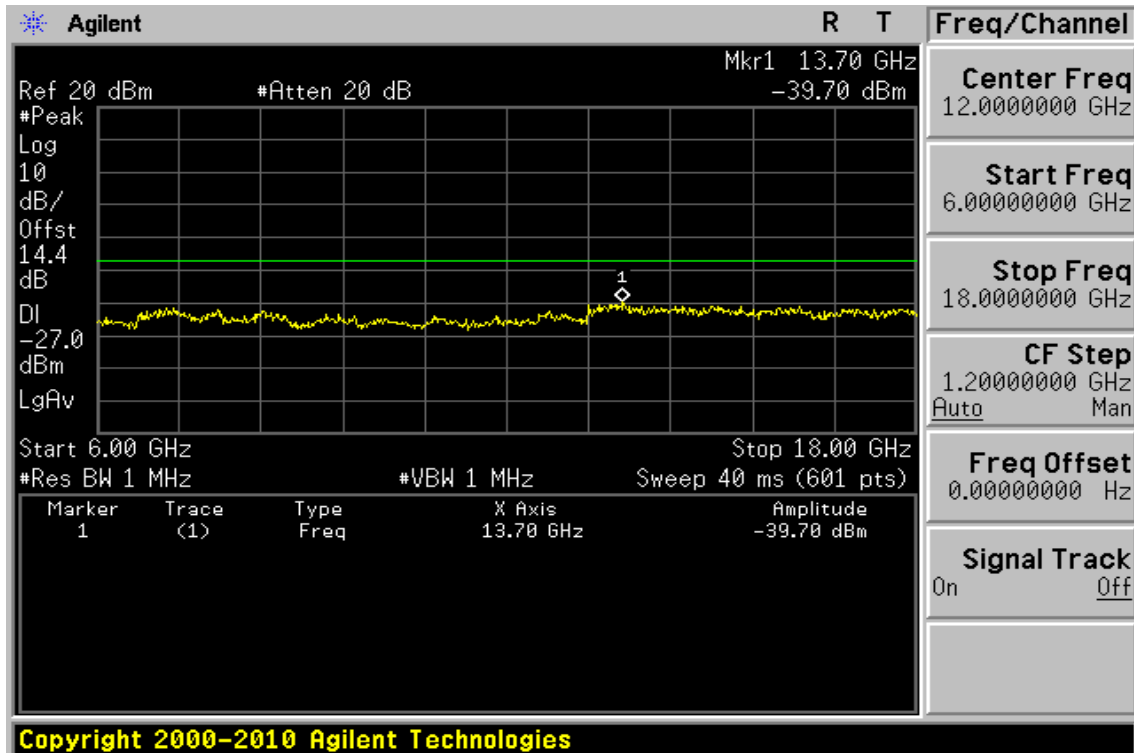
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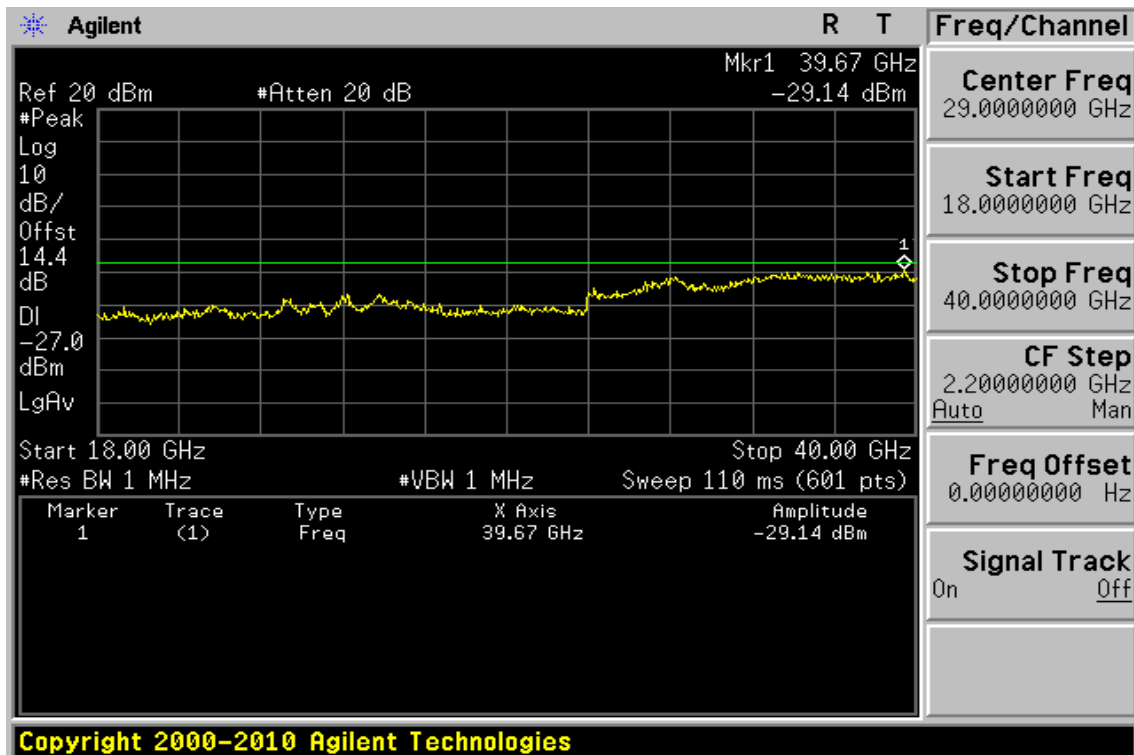
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz



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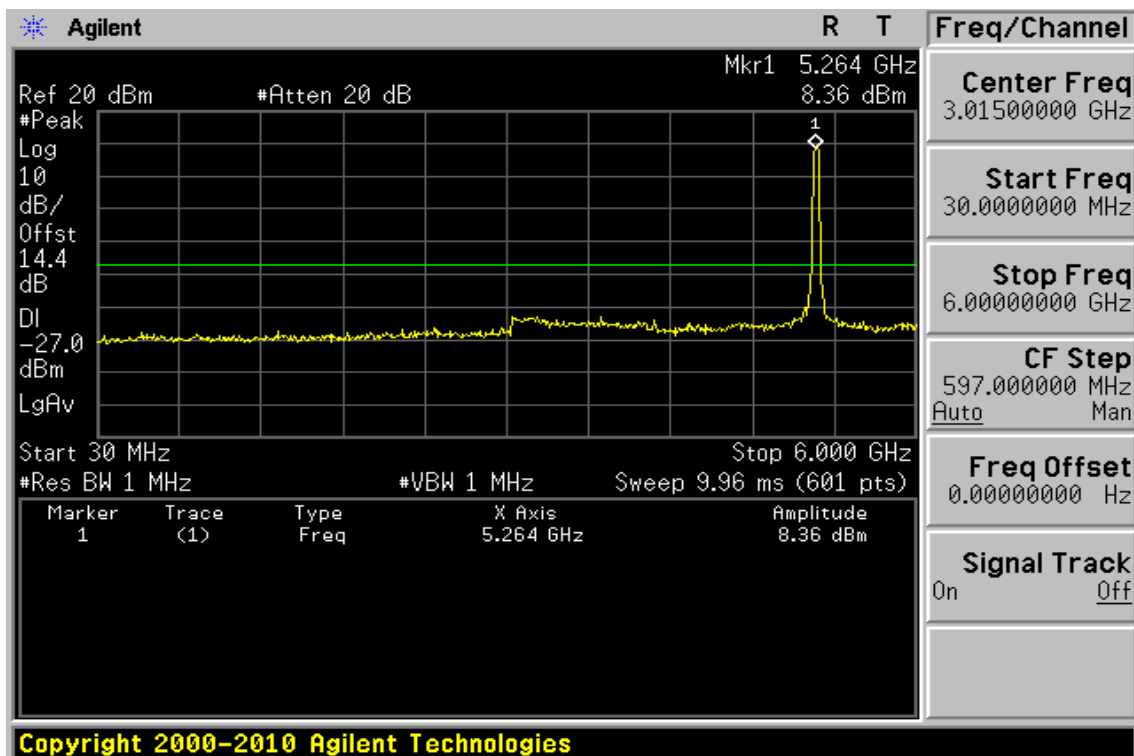
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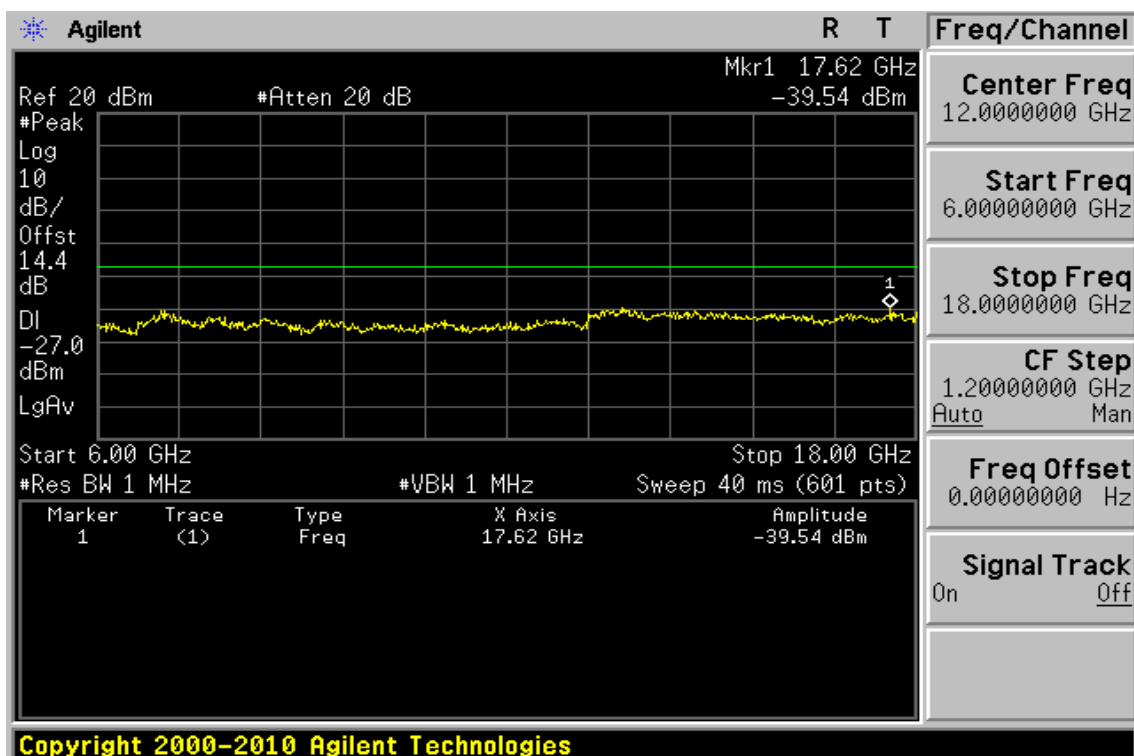
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802.11n HT40, 5250~5350 MHz Ch Low 30MHz – 6GHz (5270 MHz)



Ch Low 6GHz – 18GHz



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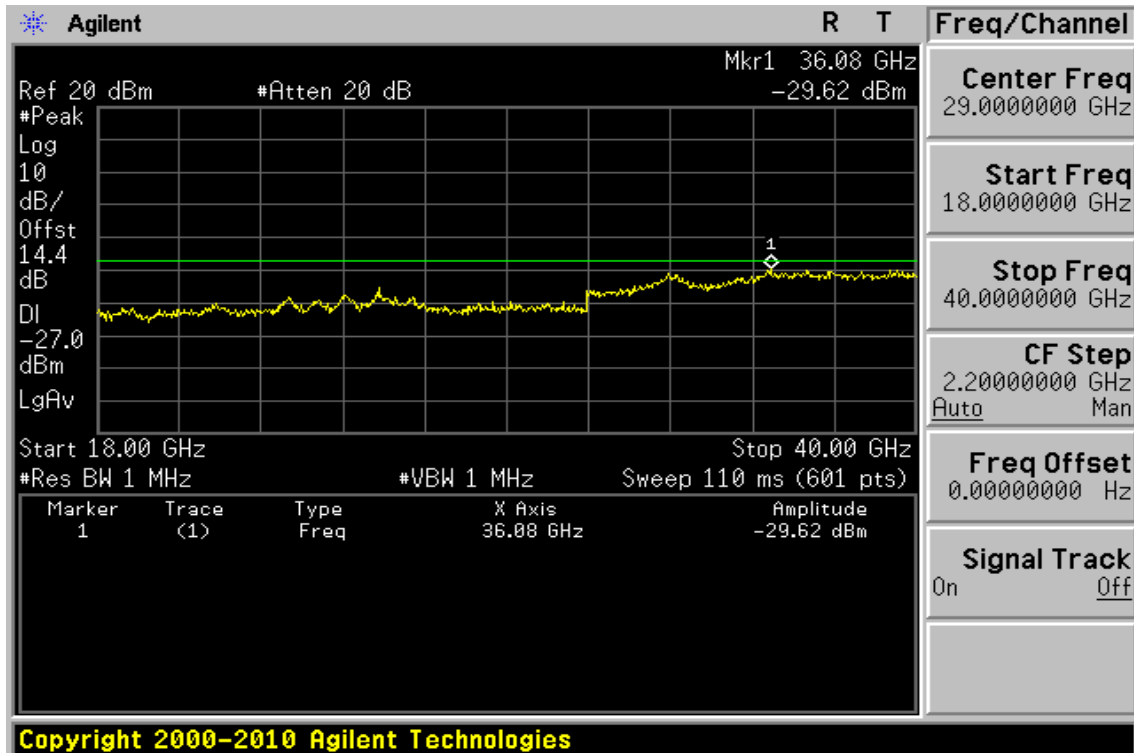
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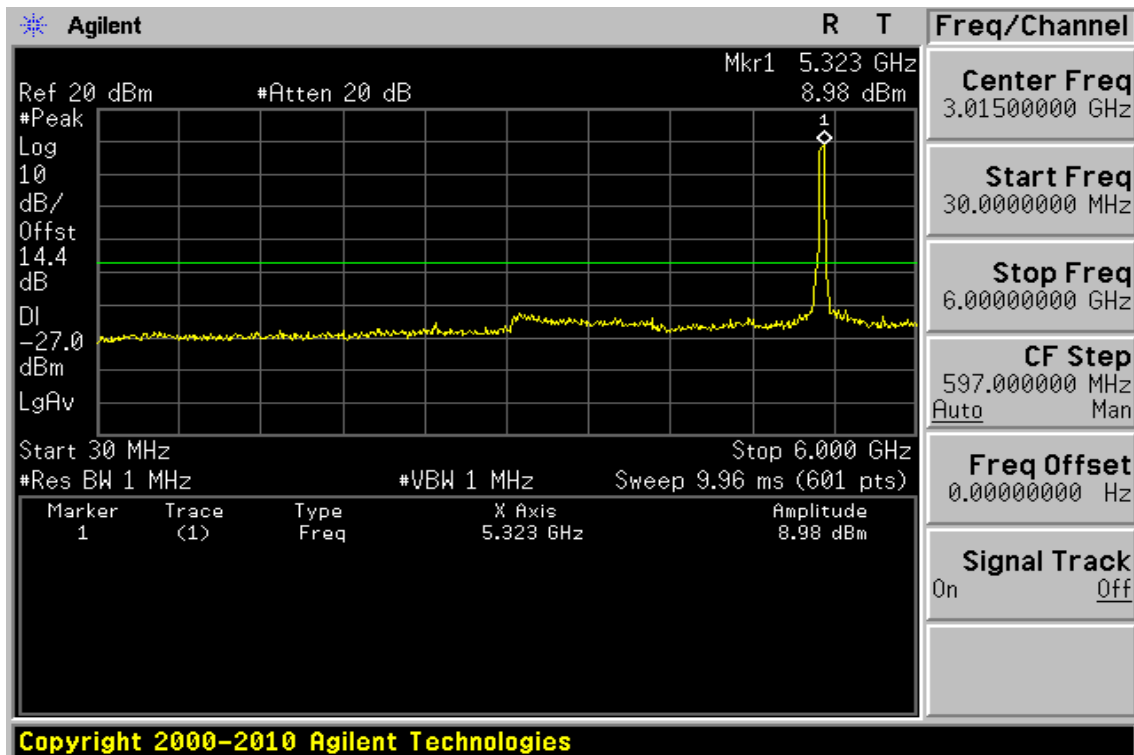
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Ch Low 18GHz – 40GHz



Ch High 30MHz – 6GHz (5310 MHz)



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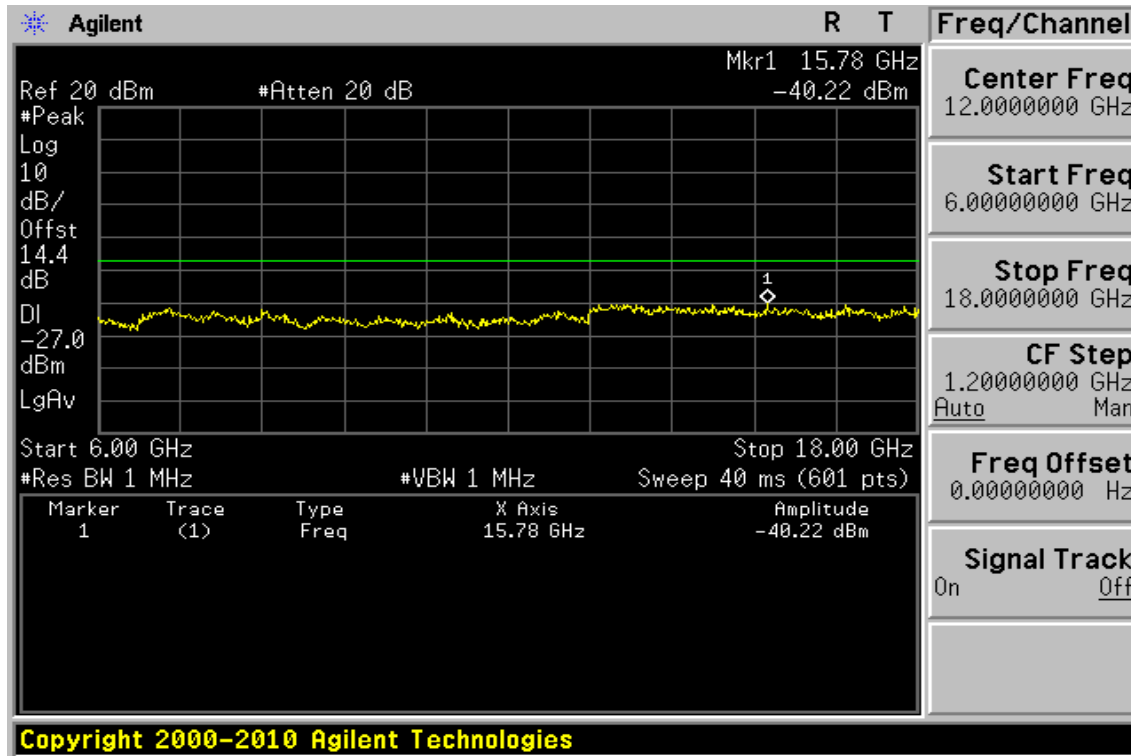
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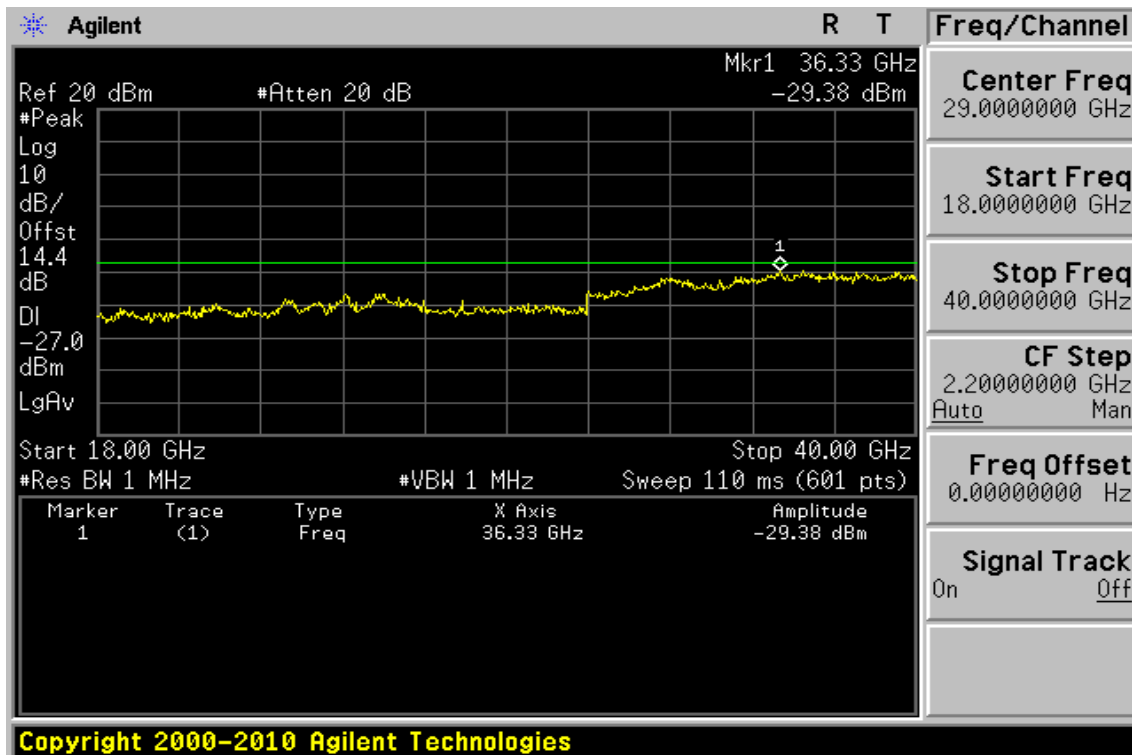
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz



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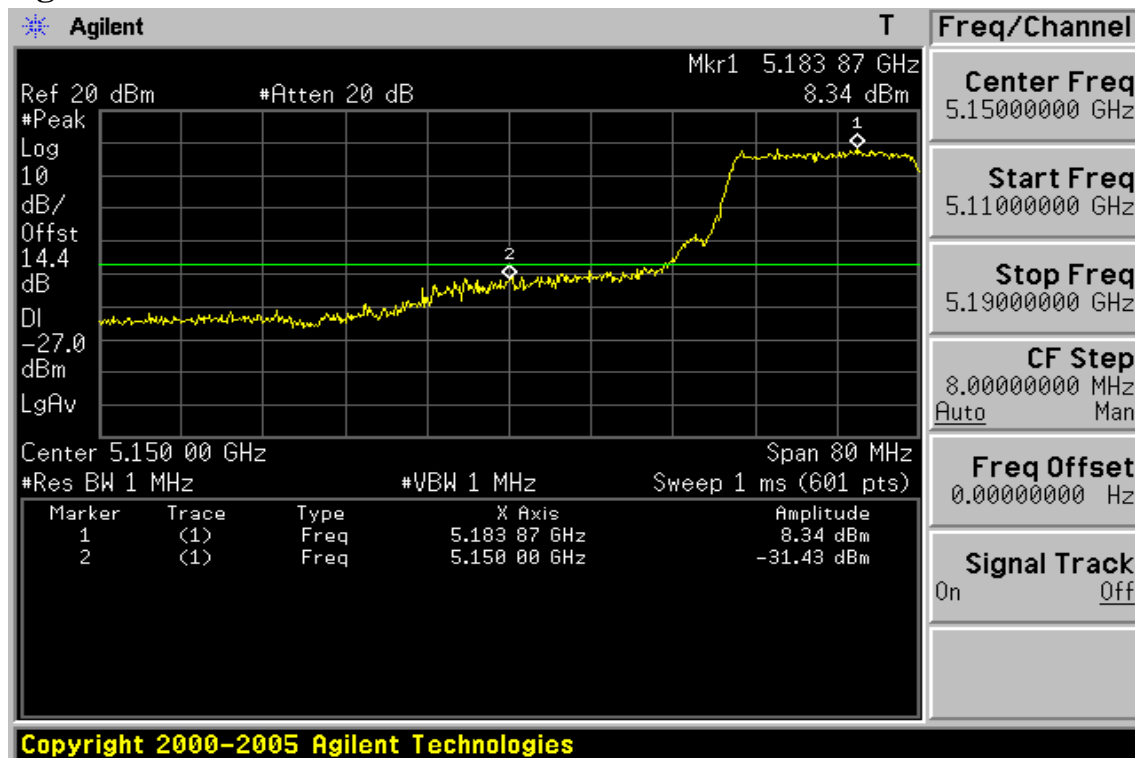
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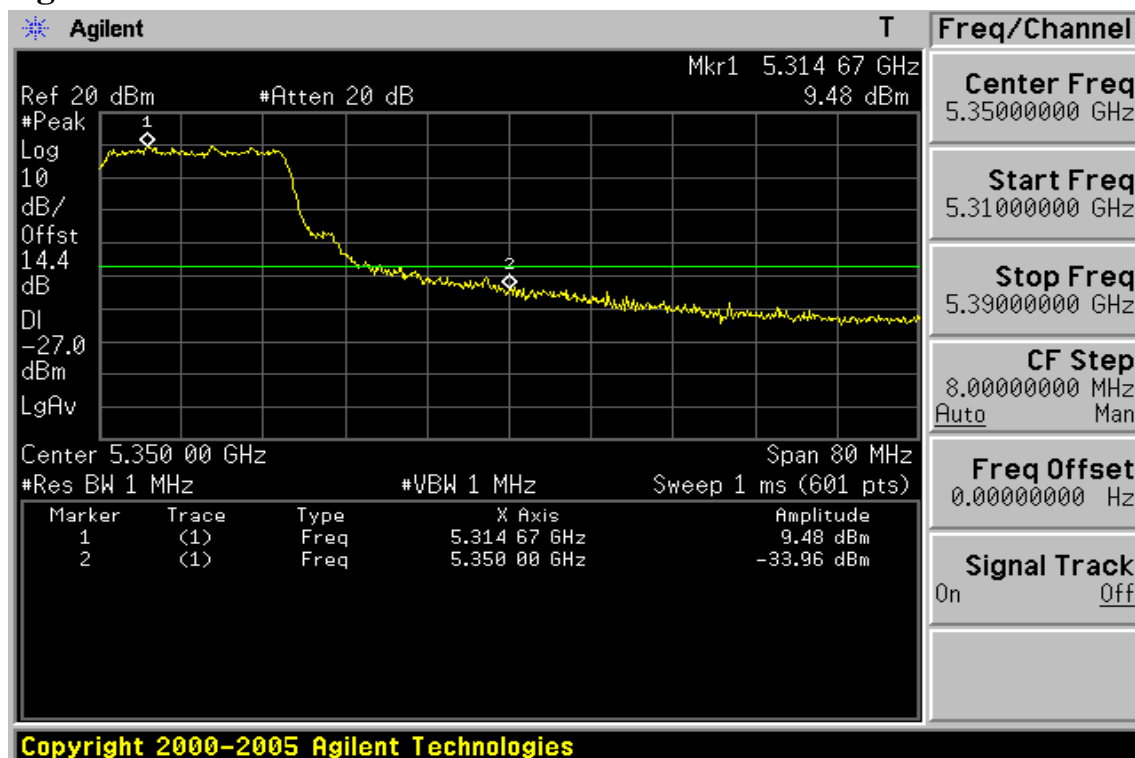
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802.11n HT40, 5150~5350 MHz Band Edges Test Data CH 5150



Band Edges Test Data CH 5350



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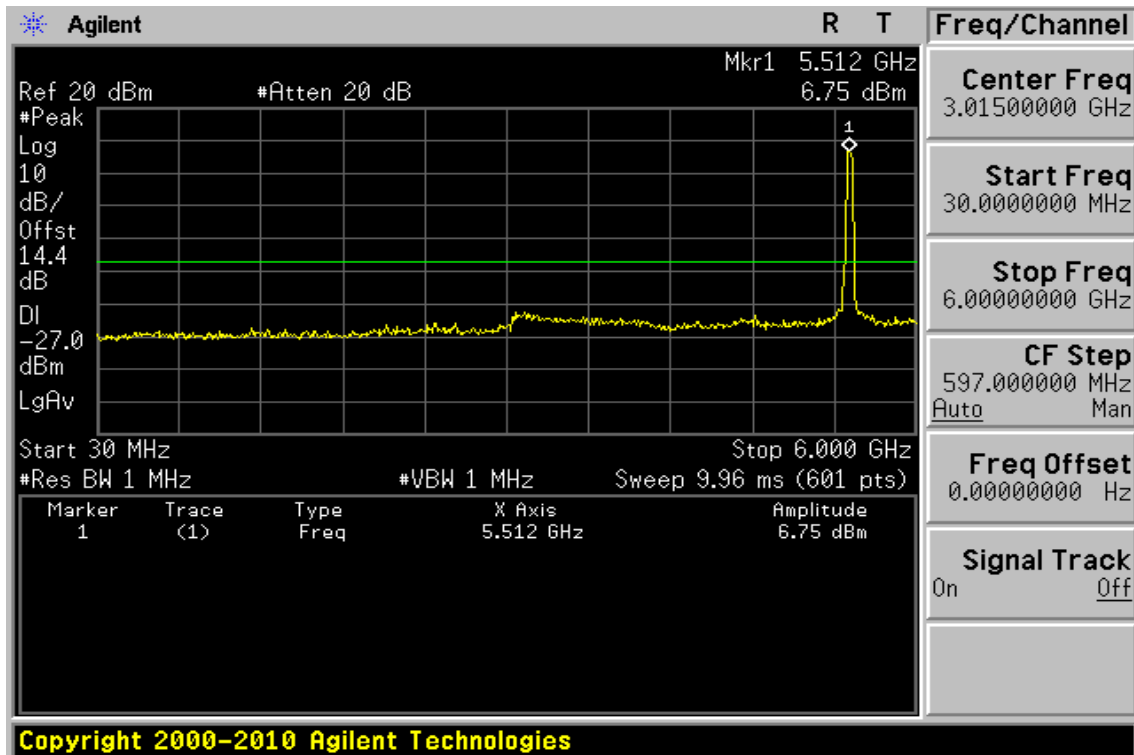
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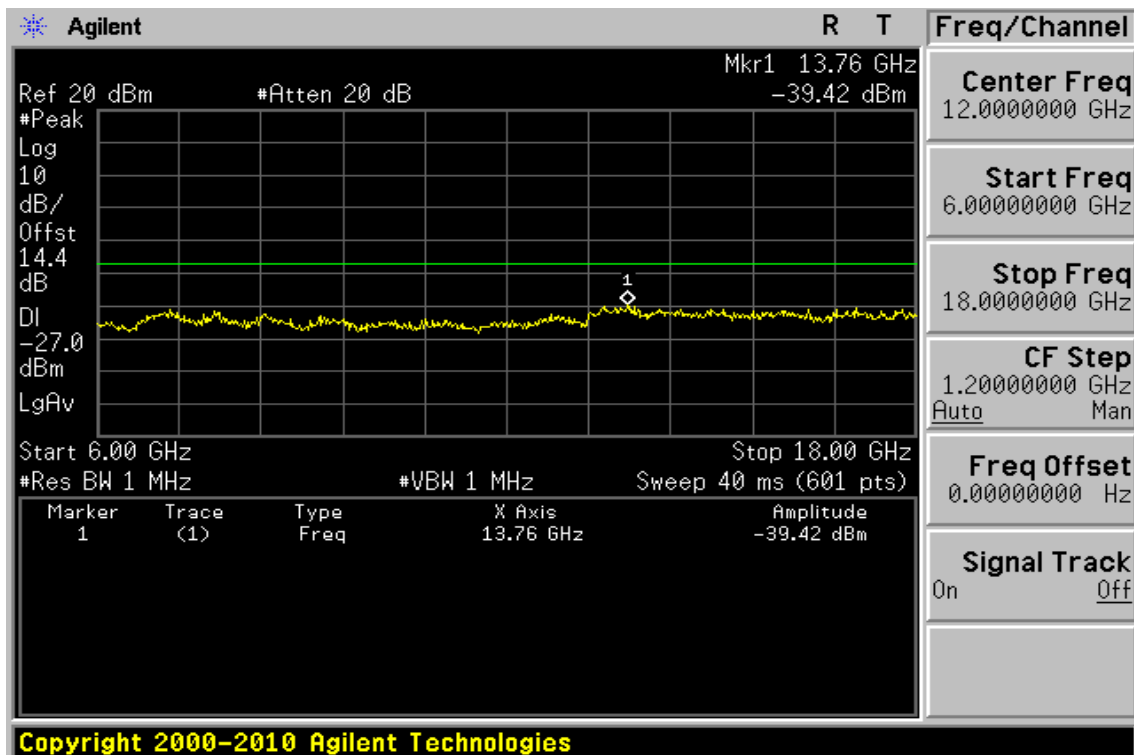
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802.11n HT40, 5470~5725 MHz Ch Low 30MHz – 6GHz (5510 MHz)



Ch Low 6GHz – 18GHz



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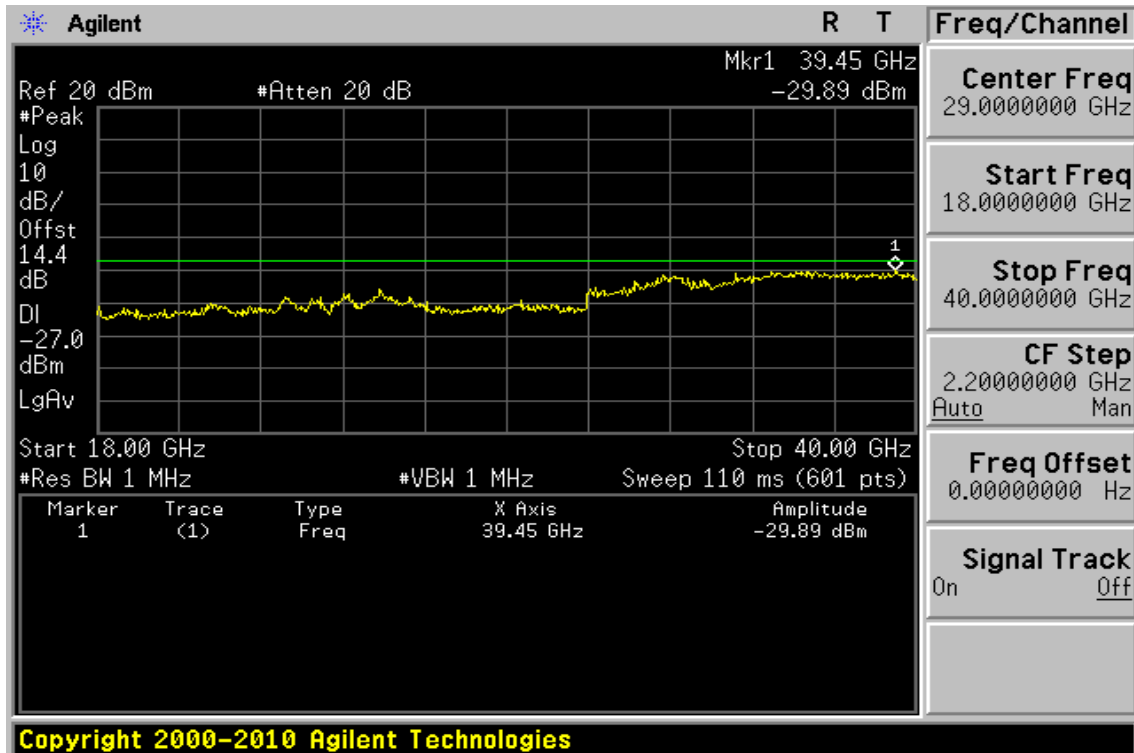
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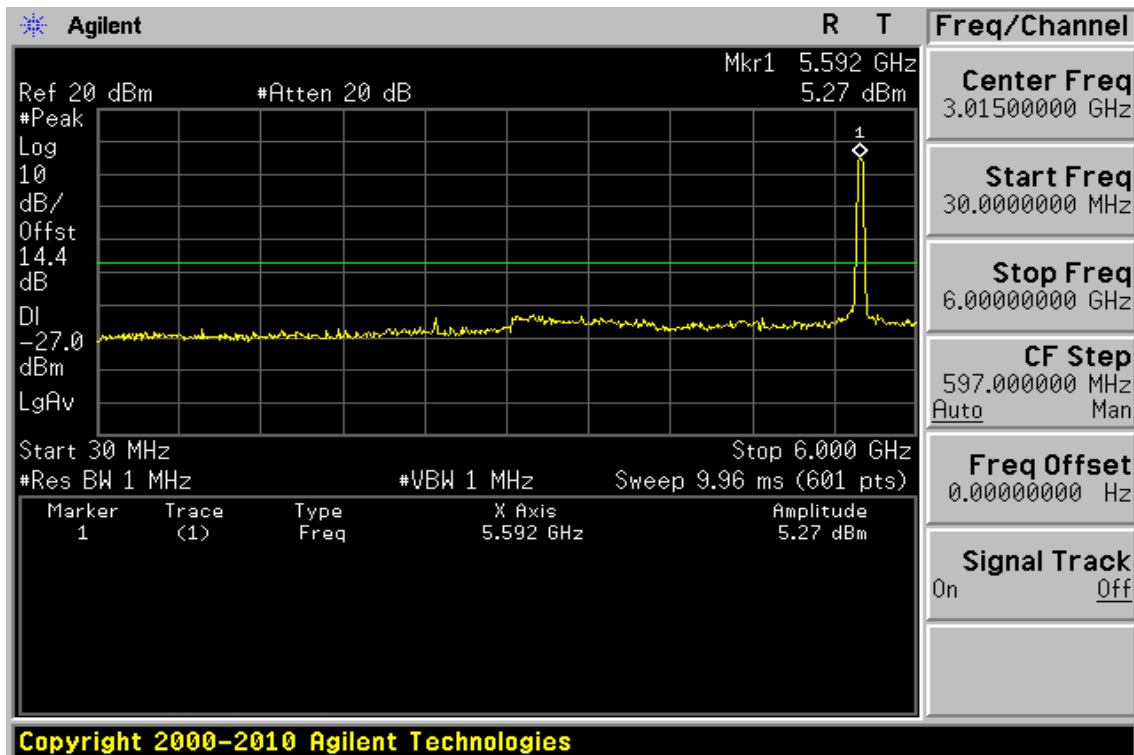
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Ch Low 18GHz – 40GHz



Ch Mid 30MHz – 6GHz (5590 MHz)



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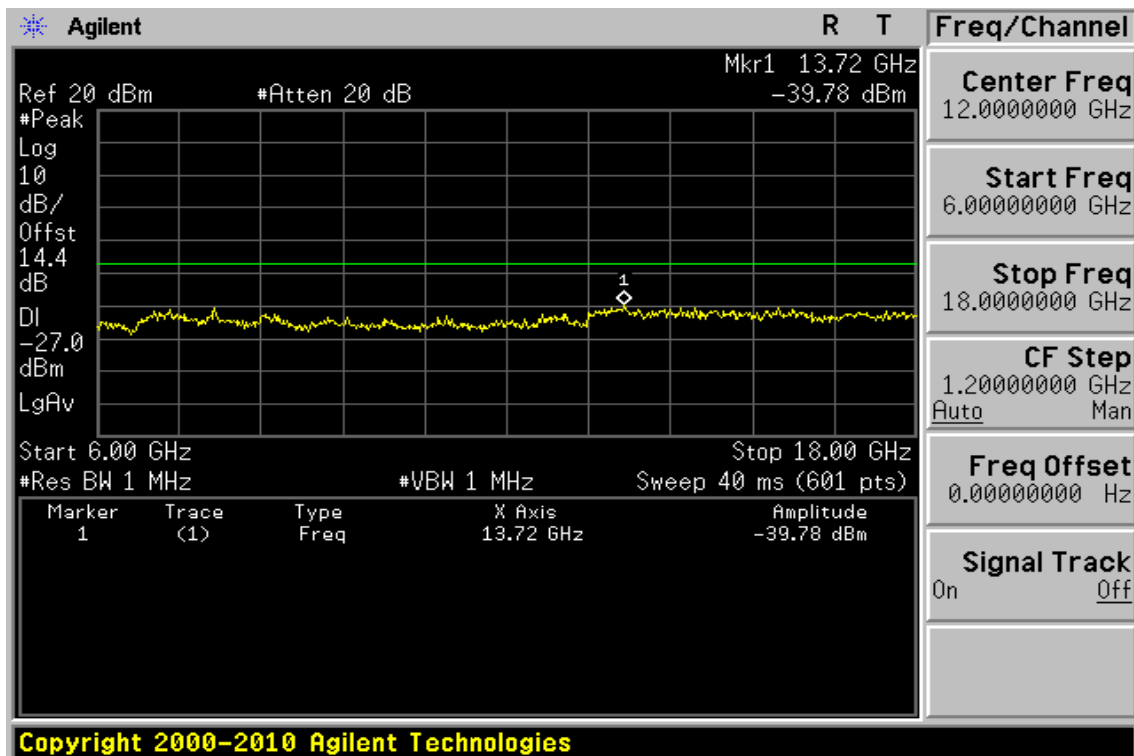
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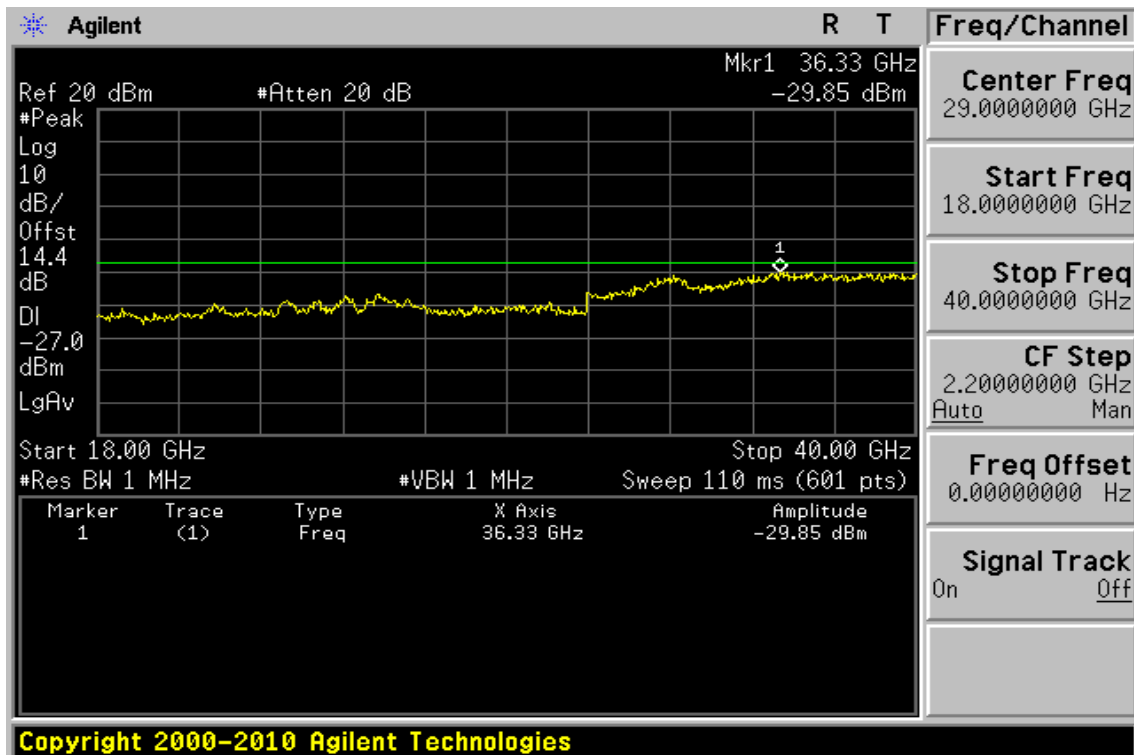
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz



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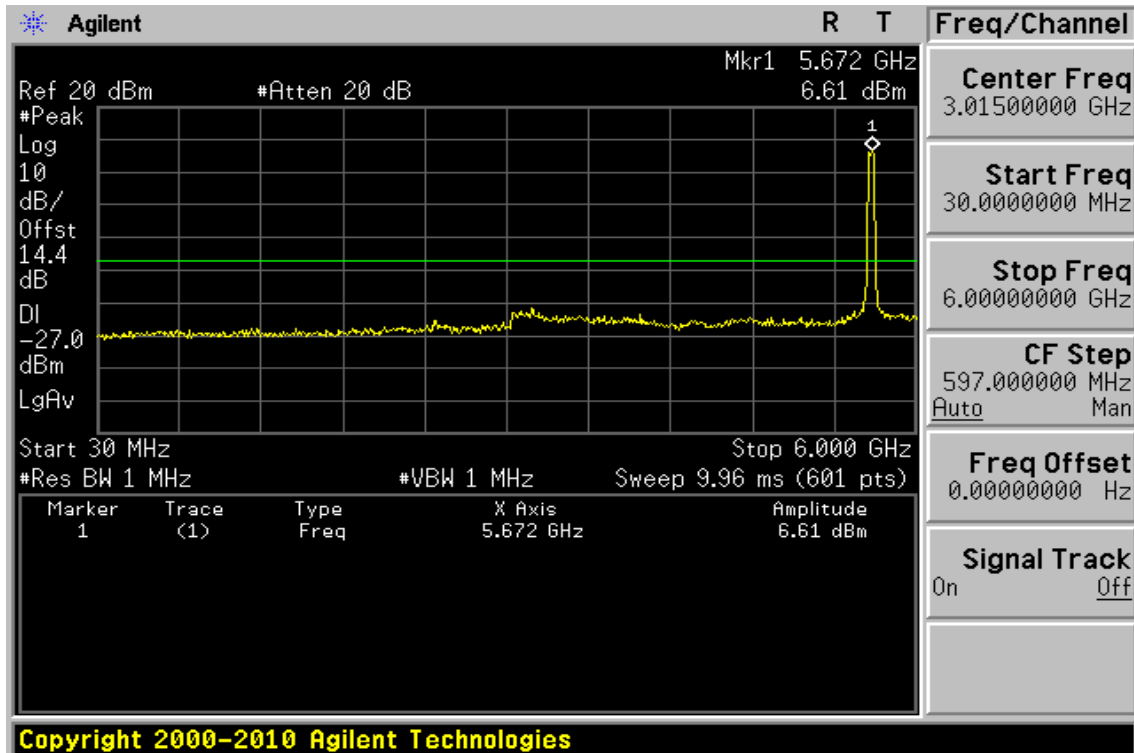
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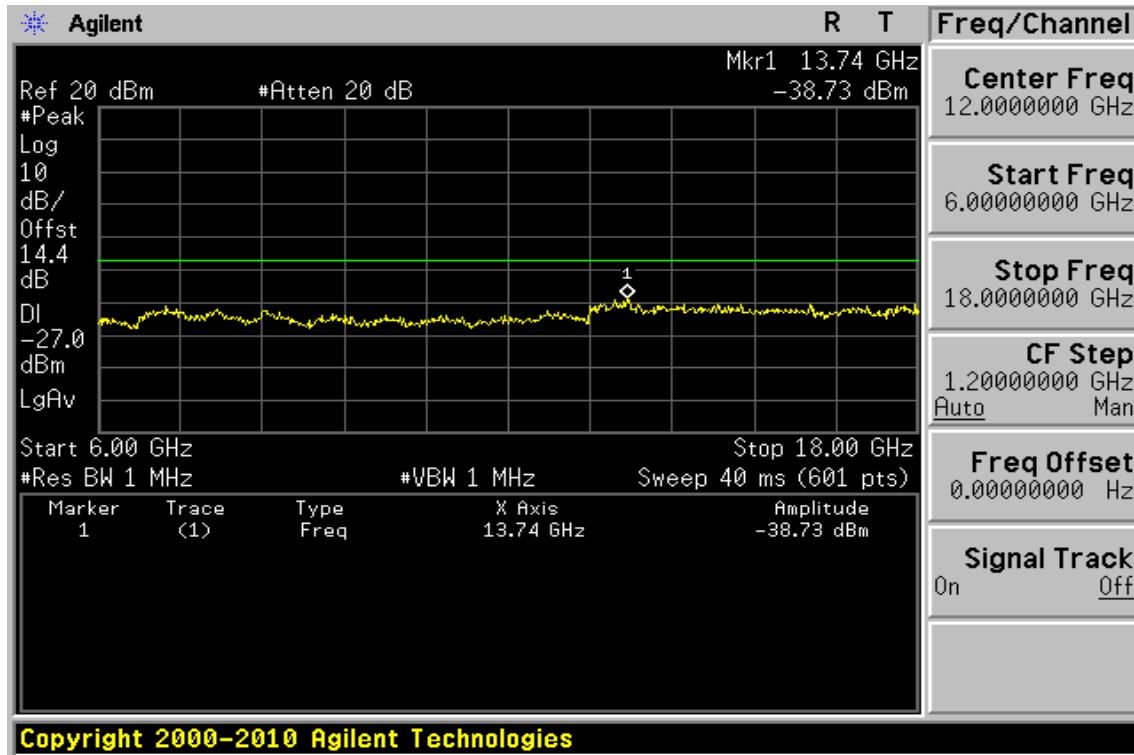
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Ch High 30MHz – 6GHz (5670 MHz)



Ch High 6GHz – 18GHz



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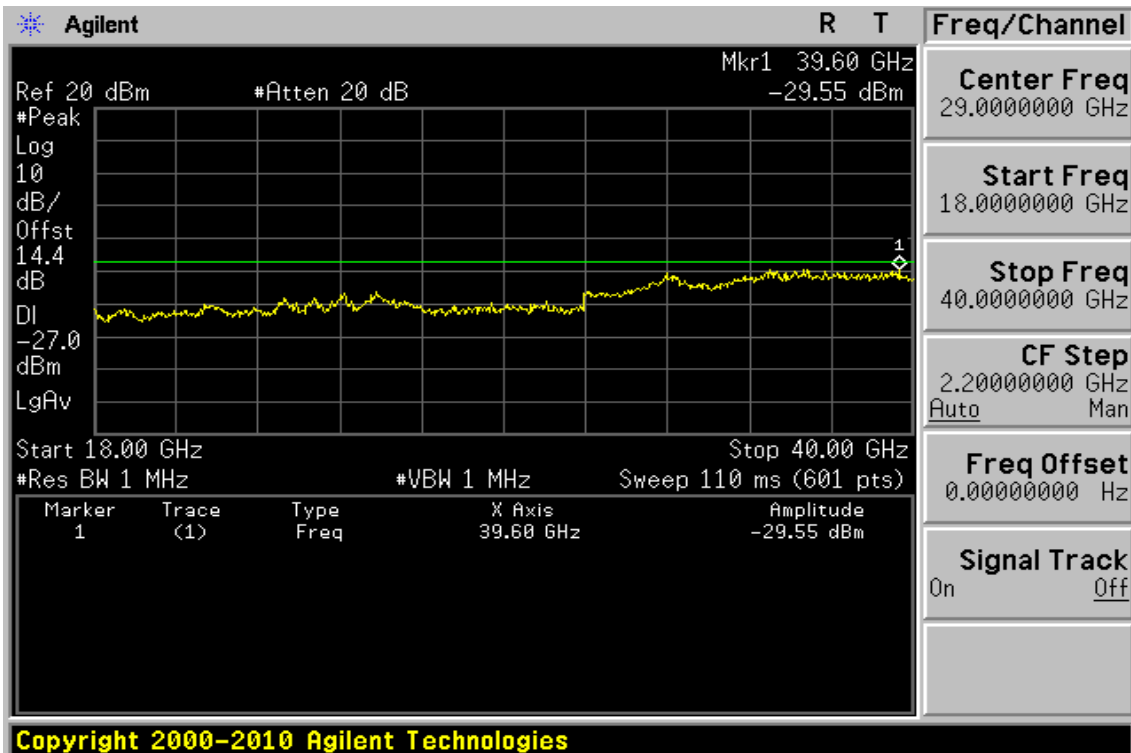
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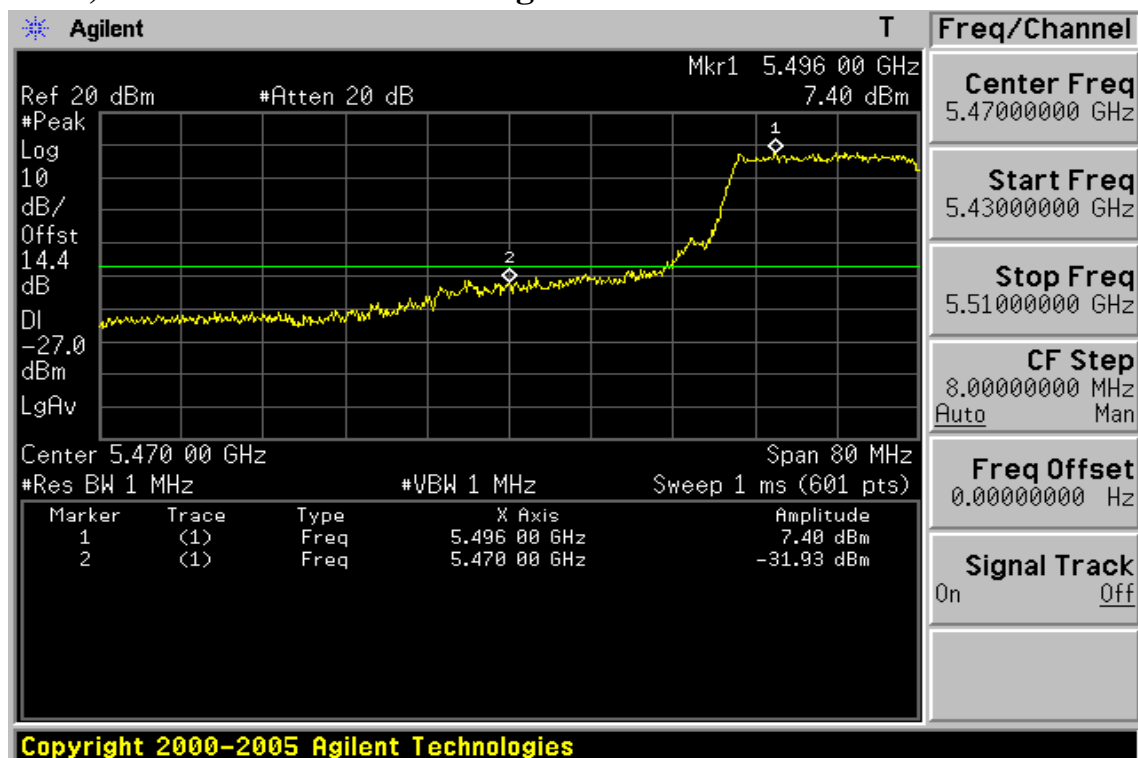
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Ch High 18GHz – 40GHz



802.11n HT40, 5470~5725 MHz Band Edges Test Data CH 5510



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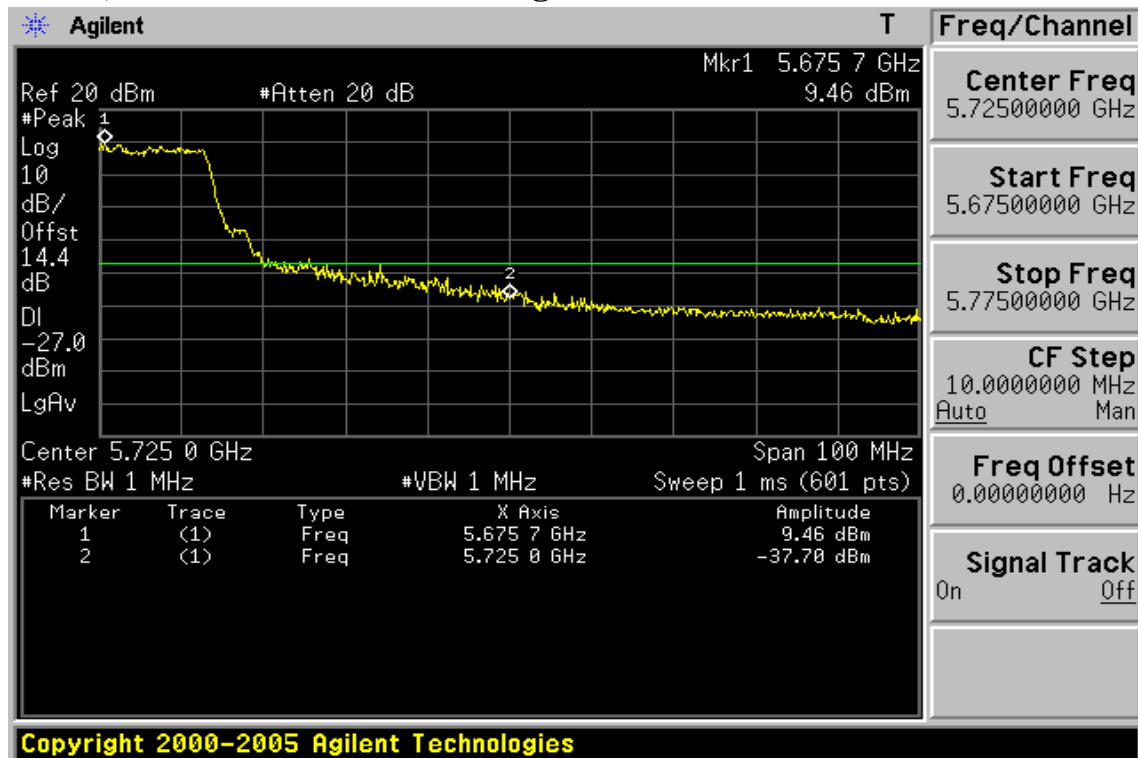
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12. UNDESIRABLE EMISSION - RADICTED MEASUREMENT

12.1 Standard Applicable

According to §15.407(b),

(b) Undesirable Emission Limits: Except as shown in Paragraph (b)(6) of this section, the peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.
- (3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz.
- (5) The above emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- (6) For MIMO operation, appropriate offset (10 log (N)) on the spectrum is adjusted on “per chain basis to result MIMO measurement.
- (7) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in Section 15.207.
- (8) The provisions of Section 15.205 of this part apply to intentional radiators operating under this section.
- (9) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency block edges as the design of the equipment permits.

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§15.205- RESTRICTED BANDS OF OPERATIONS

- (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|----------------------------|---------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| ¹ 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.52525 | 2655 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 156.7 - 156.9 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 162.0125 - 167.17 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 167.72 - 173.2 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 240 - 285 | 3600 - 4400 | (²) |
| 13.36 - 13.41 | 322 - 335.4 | | |

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

- (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

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§15.209- RADIATED EMISSION LIMITS: GENERAL REQUIREMENTS

FCC PART 15.209

| MEASURING DISTANCE OF 3 METER | | |
|-------------------------------|----------------------------------|----------------------------|
| FREQUENCY RANGE (MHz) | FIELD STRENGTH (Microvolts/m) | FIELD STRENGTH (dBuV/m) |
| 30-88 | 100 | 40 |
| 88-216 | 150 | 43.5 |
| 216-960 | 200 | 46 |
| Above 960 | 500 | 54 |

According to RSS-Gen section 4.9 Transmitter Unwanted Emissions

The measurement method shall be described in the test report. When the applicable unwanted emissions limits are defined in relative terms, the same parameter, peak power or average power, used for the transmitter output power measurement, shall be used for unwanted emission measurements.

In measuring unwanted emissions, the spectrum shall be investigated from 30 MHz or the lowest radio frequency signal generated in the equipment, whichever is lower, without going below 9 kHz, up to at least the frequency given in (a) and (b):

(a) If the equipment operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

(b) If the equipment operates at or above 10 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.

Particular attention should be paid to harmonics and sub-harmonics of the carrier frequency, as well as to those frequencies removed from the carrier by multiples of the oscillator frequency. Radiation at the frequencies of multiplier stages should also be checked. The amplitude of spurious emissions attenuated more than 20 dB below the permissible value need not be reported.

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When limits are expressed in absolute terms, compliance with the emission limits shall be demonstrated using a CISPR quasi-peak detector and the related measurement bandwidth for emissions below 1000 MHz. As an alternative to CISPR quasi-peak measurement, compliance with the emission limits can be demonstrated using measuring equipment employing a peak detector function properly adjusted for factors such as pulse desensitization as required, with an equal or greater measurement bandwidth relative to the applicable CISPR quasi-peak bandwidth. Above 1000 MHz, compliance with the emission limits shall be demonstrated using an average detector with a minimum resolution bandwidth of 1 MHz

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According to RSS-Gen section 7.2.2 Emissions Falling Within Restricted Frequency Bands

Restricted bands, identified in Table 1, are designated primarily for safety-of-life services (distress calling and certain aeronautical bands), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following restrictions apply:

- (a) fundamental components of modulation of licence-exempt radio apparatus shall not fall within the restricted bands of Table 1;
- (b) unwanted emissions falling into restricted bands of Table 1 shall comply with the limits specified in RSS-Gen;
- (c) unwanted emissions not falling within restricted frequency bands shall either comply with the limits specified in the applicable RSS, or with those specified in RSS-Gen.

Table 1: Frequency Range of Operation

| Frequency Range over which the device operates | Number of Measurement Frequencies Required | Location of Measurement Frequency in Band of Operation |
|--|--|--|
| 1 MHz or less | 1 | Centre |
| 1 MHz to 10 MHz | 2 | 1 near high end, 1 near low end |
| Greater than 10 MHz | 3 | 1 near high end, 1 near centre and 1 near low end |

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Table 3: Restricted Frequency Bands (Note)

| MHz | MHz | GHz |
|---------------------|---------------|-------------|
| 0.090-0.110 | 240-285 | 9.0-9.2 |
| 2.1735-2.1905 | 322-335.4 | 9.3-9.5 |
| 3.020-3.026 | 399.9-410 | 10.6-12.7 |
| 4.125-4.128 | 608-614 | 13.25-13.4 |
| 4.17725-4.17775 | 960-1427 | 14.47-14.5 |
| 4.20725-4.20775 | 1435-1626.5 | 15.35-16.2 |
| 5.677-5.683 | 1645.5-1646.5 | 17.7-21.4 |
| 6.215-6.218 | 1660-1710 | 22.01-23.12 |
| 6.26775-6.26825 | 1718.8-1722.2 | 23.6-24.0 |
| 6.31175-6.31225 | 2200-2300 | 31.2-31.8 |
| 8.291-8.294 | 2310-2390 | 36.43-36.5 |
| 8.362-8.366 | 2655-2900 | Above 38.6 |
| 8.37625-8.38675 | 3260-3267 | |
| 8.41425-8.41475 | 3332-3339 | |
| 12.29-12.293 | 3345.8-3358 | |
| 12.51975-12.52025 | 3500-4400 | |
| 12.57675-12.57725 | 4500-5150 | |
| 13.36-13.41 | 5350-5460 | |
| 16.42-16.423 | 7250-7750 | |
| 16.69475-16.69525 | 8025-8500 | |
| 16.80425-16.80475 | | |
| 25.5-25.67 | | |
| 37.5-38.25 | | |
| 73-74.6 | | |
| 74.8-75.2 | | |
| 108-138 | | |
| 156.52475-156.52525 | | |
| 156.7-156.9 | | |

Note: Certain frequency bands listed in Table 1 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to the devices are set out in the 200- and 300- series RSSs, such as RSS-210 and RSS-310, which contain the requirements that apply to licence-exempt radio apparatus.

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12.2 EUT Setup

1. The radiated emission tests were performed in the 3 meter open-test site, using the setup in accordance with the ANSI C63.4-2009.
2. The EUT was put in the front of the test table. The host PC system was placed on the center of the back edge on the test table. The peripherals like modem, monitor printer, K/B, and mouse were placed on the side of the host PC system. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The keyboard was placed directly in the front of the monitor, flushed with the front tabletop. The mouse was placed next to the Keyboard, flushed with the back of keyboard.
4. The spacing between the peripherals was 10 centimeters.
5. External I/O cables were draped along the edge of the test table and bundle when necessary.
6. The host PC system was connected with 120Vac/60Hz power source.

12.3 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. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until all frequency measured were complete.

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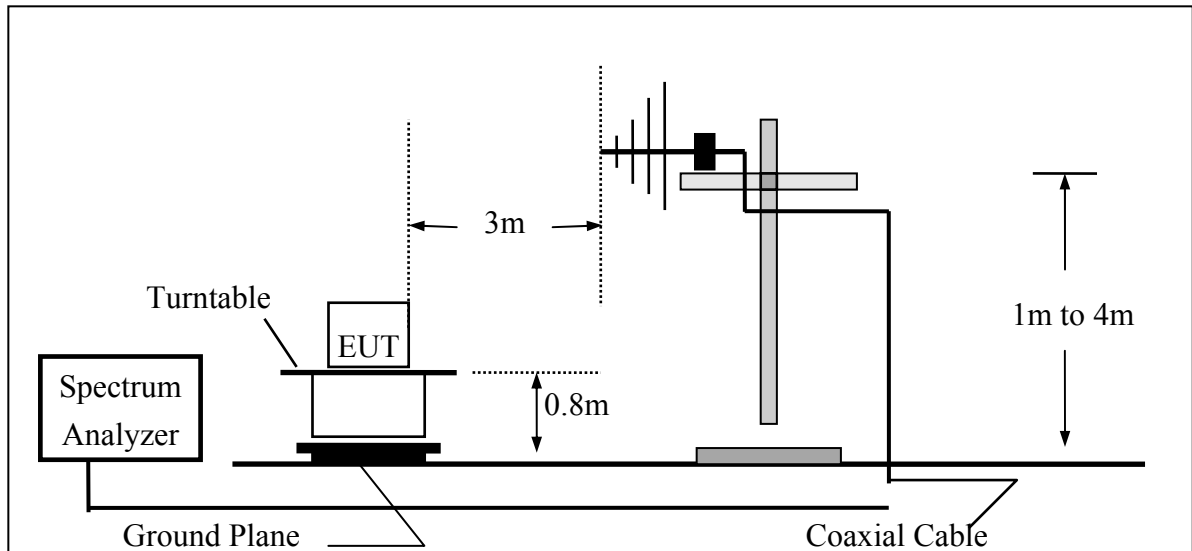
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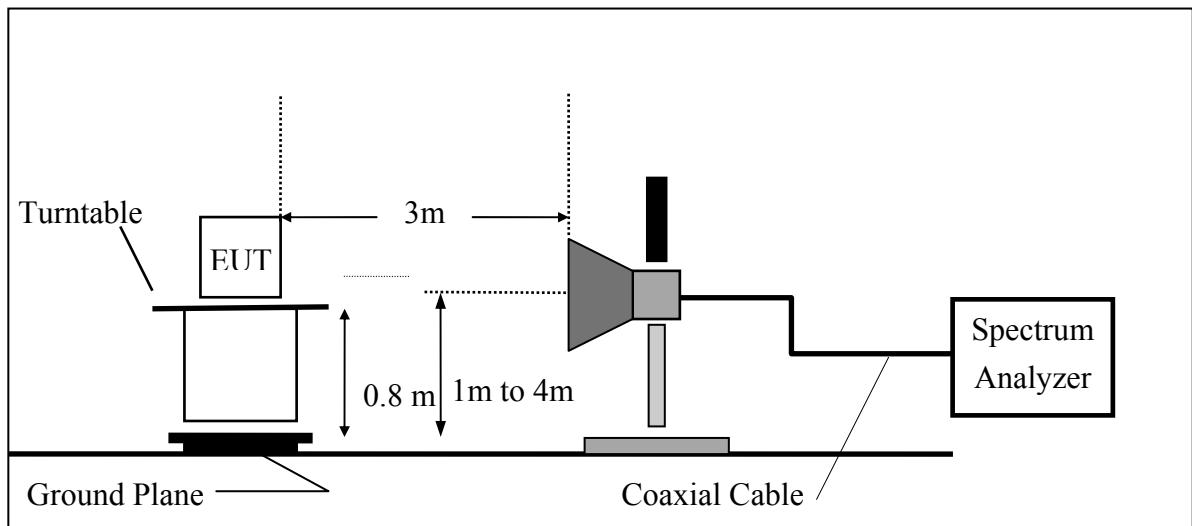
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12.4 Test SET-UP (Block Diagram of Configuration)

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



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



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12.5 Measurement Equipment Used:

| 966 Chamber | | | | | |
|------------------------------|-----------------------|--------------------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESC17 | 100759 | 05/20/2011 | 05/19/2013 |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 04/15/2011 | 04/14/2013 |
| EXA Spectrum Analyzer | Agilent | N9010A | MY50420195 | 02/15/2011 | 02/14/2013 |
| Spectrum Analyzer | R&S | FSV-30 | 101398 | 10/18/2011 | 10/17/2013 |
| Bilog Antenna | SCHWAZBECK | VULB9168 | 378 | 01/10/2012 | 01/09/2014 |
| Horn antenna | ETS.LINDGREN | 3117 | 123995 | 05/19/2011 | 05/18/2013 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 185 | 07/11/2011 | 07/10/2013 |
| RF amplifier | Miteq | AMF-6F-2600 400-40-8P | 971576 | 12/28/2011 | 12/27/2012 |
| Pre-Amplifier | Agilent | 8447D | 2944A07676 | 01/04/2012 | 01/03/2013 |
| Pre-Amplifier | EMC Instruments Corp. | EMC0126530 | 980038 | 01/04/2012 | 01/03/2013 |
| 5150-5350 Band Reject Filter | Micro-Tronics | BRM50703 | 1 | 01/04/2012 | 01/03/2013 |
| 5470-5725 Band Reject Filter | Micro-Tronics | BRM50704 | 1 | 01/04/2012 | 01/03/2013 |
| 5725-5875 Band Reject Filter | Micro-Tronics | BRM50705 | 1 | 01/04/2012 | 01/03/2013 |
| 1GHz High Pass Filter | Micro-Tronics | HPM50108 | 32 | 02/28/2012 | 02/27/2013 |
| 2GHz High Pass Filter | Micro-Tronics | HPM50110 | 36 | 02/28/2012 | 02/27/2013 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 002 | 02/28/2012 | 02/27/2013 |
| Turn Table | HD | DT420 | N/A | N.C.R | N.C.R |
| Antenna Tower | HD | MA240-N | 240/657 | N.C.R | N.C.R |
| Controller | HD | HD100 | N/A | N.C.R | N.C.R |
| Low Loss Cable | Huber Suhner | 966_Rx | 9 | 01/04/2012 | 01/03/2013 |
| 3m Site NSA | SGS | 966 chamber | N/A | 07/15/2012 | 07/14/2013 |

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12.6 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 | |

12.7 Measurement Result

fer to attach tabular data sheets.

NOTE:

The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 100kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.

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Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz (Internal Antenna)

| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-10-27 |
| Fundamental Frequency | :5180 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 47.46 | S | Peak | 48.91 | -13.85 | 35.06 | 40.00 | -4.94 |
| 153.19 | S | Peak | 44.01 | -12.32 | 31.69 | 43.50 | -11.81 |
| 270.56 | S | Peak | 43.44 | -13.34 | 30.10 | 46.00 | -15.90 |
| 364.65 | S | Peak | 38.29 | -11.50 | 26.79 | 46.00 | -19.21 |
| 672.14 | S | Peak | 34.38 | -6.16 | 28.22 | 46.00 | -17.78 |
| 966.05 | S | Peak | 32.05 | -2.03 | 30.02 | 54.00 | -23.98 |
| 10360.00 | H | Peak | 18.23 | 15.14 | 33.37 | 74.00 | -40.63 |
| 15540.00 | H | --- | | | | | |
| 20720.00 | H | --- | | | | | |
| 25900.00 | H | --- | | | | | |
| 31080.00 | H | --- | | | | | |
| 36260.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-10-27 |
| Fundamental Frequency | :5180 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 185.20 | S | Peak | 49.23 | -15.10 | 34.13 | 43.50 | -9.37 |
| 273.47 | S | Peak | 45.36 | -13.25 | 32.11 | 46.00 | -13.89 |
| 366.59 | S | Peak | 43.04 | -11.48 | 31.56 | 46.00 | -14.44 |
| 696.39 | S | Peak | 35.62 | -5.79 | 29.83 | 46.00 | -16.17 |
| 934.04 | S | Peak | 33.36 | -2.25 | 31.11 | 46.00 | -14.89 |
| 966.05 | S | Peak | 32.34 | -2.03 | 30.31 | 54.00 | -23.69 |
| 10360.00 | H | Peak | 18.62 | 15.17 | 33.79 | 74.00 | -40.21 |
| 15540.00 | H | --- | | | | | |
| 20720.00 | H | --- | | | | | |
| 25900.00 | H | --- | | | | | |
| 31080.00 | H | --- | | | | | |
| 36260.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-10-27 |
| Fundamental Frequency | :5220 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 47.46 | S | Peak | 49.61 | -13.85 | 35.76 | 40.00 | -4.24 |
| 152.22 | S | Peak | 44.81 | -12.32 | 32.49 | 43.50 | -11.01 |
| 272.50 | S | Peak | 43.46 | -13.28 | 30.18 | 46.00 | -15.82 |
| 366.59 | S | Peak | 37.99 | -11.48 | 26.51 | 46.00 | -19.49 |
| 798.24 | S | Peak | 34.67 | -4.22 | 30.45 | 46.00 | -15.55 |
| 995.15 | S | Peak | 31.35 | -1.87 | 29.48 | 54.00 | -24.52 |
| 10440.00 | H | Peak | 19.66 | 14.92 | 34.58 | 74.00 | -39.42 |
| 15660.00 | H | --- | | | | | |
| 20880.00 | H | --- | | | | | |
| 26100.00 | H | --- | | | | | |
| 31320.00 | H | --- | | | | | |
| 36540.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-10-27 |
| Fundamental Frequency | :5220 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 185.20 | S | Peak | 48.19 | -15.10 | 33.09 | 43.50 | -10.41 |
| 273.47 | S | Peak | 44.93 | -13.25 | 31.68 | 46.00 | -14.32 |
| 364.65 | S | Peak | 42.62 | -11.50 | 31.12 | 46.00 | -14.88 |
| 577.08 | S | Peak | 38.81 | -8.05 | 30.76 | 46.00 | -15.24 |
| 799.21 | S | Peak | 36.37 | -4.21 | 32.16 | 46.00 | -13.84 |
| 962.17 | S | Peak | 31.82 | -2.05 | 29.77 | 54.00 | -24.23 |
| 10440.00 | H | Peak | 18.96 | 15.00 | 33.96 | 74.00 | -40.04 |
| 15660.00 | H | --- | | | | | |
| 20880.00 | H | --- | | | | | |
| 26100.00 | H | --- | | | | | |
| 31320.00 | H | --- | | | | | |
| 36540.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-10-27 |
| Fundamental Frequency | :5240 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 46.49 | S | Peak | 48.55 | -13.80 | 34.75 | 40.00 | -5.25 |
| 154.16 | S | Peak | 43.95 | -12.30 | 31.65 | 43.50 | -11.85 |
| 270.56 | S | Peak | 43.34 | -13.34 | 30.00 | 46.00 | -16.00 |
| 566.41 | S | Peak | 36.61 | -8.25 | 28.36 | 46.00 | -17.64 |
| 696.39 | S | Peak | 35.00 | -5.79 | 29.21 | 46.00 | -16.79 |
| 966.05 | S | Peak | 31.69 | -2.03 | 29.66 | 54.00 | -24.34 |
| 10480.00 | H | Peak | 18.70 | 14.83 | 33.53 | 74.00 | -40.47 |
| 15720.00 | H | --- | | | | | |
| 20960.00 | H | --- | | | | | |
| 26200.00 | H | --- | | | | | |
| 31440.00 | H | --- | | | | | |
| 36680.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-10-27 |
| Fundamental Frequency | :5240 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 182.29 | S | Peak | 47.35 | -14.78 | 32.57 | 43.50 | -10.93 |
| 273.47 | S | Peak | 46.23 | -13.25 | 32.98 | 46.00 | -13.02 |
| 364.65 | S | Peak | 43.34 | -11.50 | 31.84 | 46.00 | -14.16 |
| 577.08 | S | Peak | 38.19 | -8.05 | 30.14 | 46.00 | -15.86 |
| 766.23 | S | Peak | 34.92 | -4.69 | 30.23 | 46.00 | -15.77 |
| 799.21 | S | Peak | 36.72 | -4.21 | 32.51 | 46.00 | -13.49 |
| 10480.00 | H | Peak | 18.67 | 14.92 | 33.59 | 74.00 | -40.41 |
| 15720.00 | H | --- | | | | | |
| 20960.00 | H | --- | | | | | |
| 26200.00 | H | --- | | | | | |
| 31440.00 | H | --- | | | | | |
| 36680.00 | H | --- | | | | | |

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| | | | |
|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-06 |
| Fundamental Frequency | :5180 MHz | Temp./Humi. | :25.1deg_C/59RH |
| Operation Mode | :TX BANDEDGE | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5150.00 | E | Average | 39.74 | 7.37 | 47.11 | 54.00 | -6.89 |
| 5150.00 | E | Peak | 51.83 | 7.37 | 59.20 | 74.00 | -14.80 |

| | | | |
|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-06 |
| Fundamental Frequency | :5180 MHz | Temp./Humi. | :25.1deg_C/59RH |
| Operation Mode | :TX BANDEDGE | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5150.00 | E | Average | 39.59 | 7.47 | 47.06 | 54.00 | -6.94 |
| 5150.00 | E | Peak | 49.66 | 7.47 | 57.13 | 74.00 | -16.87 |

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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz (Internal Antenna)

| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5180 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 36.79 | S | Peak | 46.22 | -13.86 | 32.36 | 40.00 | -7.64 |
| 95.96 | S | Peak | 50.64 | -17.13 | 33.51 | 43.50 | -9.99 |
| 157.07 | S | Peak | 40.63 | -12.29 | 28.34 | 43.50 | -15.16 |
| 577.08 | S | Peak | 39.91 | -8.05 | 31.86 | 46.00 | -14.14 |
| 966.05 | S | Peak | 35.07 | -2.03 | 33.04 | 54.00 | -20.96 |
| 995.15 | S | Peak | 40.21 | -1.87 | 38.34 | 54.00 | -15.66 |
| 10360.00 | H | Peak | 18.27 | 15.14 | 33.41 | 74.00 | -40.59 |
| 15540.00 | H | --- | | | | | |
| 20720.00 | H | --- | | | | | |
| 25900.00 | H | --- | | | | | |
| 31080.00 | H | --- | | | | | |
| 36260.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5180 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 138.64 | S | Peak | 43.47 | -13.20 | 30.27 | 43.50 | -13.23 |
| 288.02 | S | Peak | 43.91 | -12.86 | 31.05 | 46.00 | -14.95 |
| 335.55 | S | Peak | 39.85 | -11.86 | 27.99 | 46.00 | -18.01 |
| 398.60 | S | Peak | 39.22 | -11.07 | 28.15 | 46.00 | -17.85 |
| 577.08 | S | Peak | 37.36 | -8.05 | 29.31 | 46.00 | -16.69 |
| 995.15 | S | Peak | 35.07 | -1.87 | 33.20 | 54.00 | -20.80 |
| 10360.00 | H | Peak | 19.04 | 15.17 | 34.21 | 74.00 | -39.79 |
| 15540.00 | H | --- | | | | | |
| 20720.00 | H | --- | | | | | |
| 25900.00 | H | --- | | | | | |
| 31080.00 | H | --- | | | | | |
| 36260.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5220 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 36.79 | S | Peak | 46.04 | -13.86 | 32.18 | 40.00 | -7.82 |
| 95.96 | S | Peak | 50.57 | -17.13 | 33.44 | 43.50 | -10.06 |
| 158.04 | S | Peak | 40.86 | -12.30 | 28.56 | 43.50 | -14.94 |
| 577.08 | S | Peak | 40.17 | -8.05 | 32.12 | 46.00 | -13.88 |
| 966.05 | S | Peak | 35.54 | -2.03 | 33.51 | 54.00 | -20.49 |
| 995.15 | S | Peak | 39.61 | -1.87 | 37.74 | 54.00 | -16.26 |
| 10440.00 | H | Peak | 18.34 | 14.92 | 33.26 | 74.00 | -40.74 |
| 15660.00 | H | --- | | | | | |
| 20880.00 | H | --- | | | | | |
| 26100.00 | H | --- | | | | | |
| 31320.00 | H | --- | | | | | |
| 36540.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5220 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 139.61 | S | Peak | 45.88 | -13.13 | 32.75 | 43.50 | -10.75 |
| 288.02 | S | Peak | 43.76 | -12.86 | 30.90 | 46.00 | -15.10 |
| 398.60 | S | Peak | 39.57 | -11.07 | 28.50 | 46.00 | -17.50 |
| 577.08 | S | Peak | 37.74 | -8.05 | 29.69 | 46.00 | -16.31 |
| 933.07 | S | Peak | 34.20 | -2.26 | 31.94 | 46.00 | -14.06 |
| 995.15 | S | Peak | 34.97 | -1.87 | 33.10 | 54.00 | -20.90 |
| 10440.00 | H | Peak | 17.94 | 15.00 | 32.94 | 74.00 | -41.06 |
| 15660.00 | H | --- | | | | | |
| 20880.00 | H | --- | | | | | |
| 26100.00 | H | --- | | | | | |
| 31320.00 | H | --- | | | | | |
| 36540.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5240 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 37.76 | S | Peak | 46.77 | -13.72 | 33.05 | 40.00 | -6.95 |
| 95.96 | S | Peak | 50.16 | -17.13 | 33.03 | 43.50 | -10.47 |
| 159.01 | S | Peak | 39.79 | -12.28 | 27.51 | 43.50 | -15.99 |
| 577.08 | S | Peak | 39.35 | -8.05 | 31.30 | 46.00 | -14.70 |
| 966.05 | S | Peak | 35.38 | -2.03 | 33.35 | 54.00 | -20.65 |
| 995.15 | S | Peak | 39.50 | -1.87 | 37.63 | 54.00 | -16.37 |
| 10480.00 | H | Peak | 17.91 | 14.83 | 32.74 | 74.00 | -41.26 |
| 15720.00 | H | --- | | | | | |
| 20960.00 | H | --- | | | | | |
| 26200.00 | H | --- | | | | | |
| 31440.00 | H | --- | | | | | |
| 36680.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5240 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 139.61 | S | Peak | 44.80 | -13.13 | 31.67 | 43.50 | -11.83 |
| 288.02 | S | Peak | 43.64 | -12.86 | 30.78 | 46.00 | -15.22 |
| 335.55 | S | Peak | 40.50 | -11.86 | 28.64 | 46.00 | -17.36 |
| 577.08 | S | Peak | 37.63 | -8.05 | 29.58 | 46.00 | -16.42 |
| 966.05 | S | Peak | 33.63 | -2.03 | 31.60 | 54.00 | -22.40 |
| 995.15 | S | Peak | 36.73 | -1.87 | 34.86 | 54.00 | -19.14 |
| 10480.00 | H | Peak | 18.81 | 14.92 | 33.73 | 74.00 | -40.27 |
| 15720.00 | H | --- | | | | | |
| 20960.00 | H | --- | | | | | |
| 26200.00 | H | --- | | | | | |
| 31440.00 | H | --- | | | | | |
| 36680.00 | H | --- | | | | | |

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| | | | |
|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-09 |
| Fundamental Frequency | :5180 MHz | Temp./Humi. | :25.1deg_C/59RH |
| Operation Mode | :TX BANDEDGE | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5150.00 | E | Average | 39.44 | 7.37 | 46.81 | 54.00 | -7.19 |
| 5150.00 | E | Peak | 50.24 | 7.37 | 57.61 | 74.00 | -16.39 |

| | | | |
|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-09 |
| Fundamental Frequency | :5180 MHz | Temp./Humi. | :25.1deg_C/59RH |
| Operation Mode | :TX BANDEDGE | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5150.00 | E | Average | 39.64 | 7.47 | 47.11 | 54.00 | -6.89 |
| 5150.00 | E | Peak | 52.57 | 7.47 | 60.04 | 74.00 | -13.96 |

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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz (Internal Antenna)

| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5190 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 38.73 | S | Peak | 44.08 | -13.59 | 30.49 | 40.00 | -9.51 |
| 95.96 | S | Peak | 50.95 | -17.13 | 33.82 | 43.50 | -9.68 |
| 157.07 | S | Peak | 40.37 | -12.29 | 28.08 | 43.50 | -15.42 |
| 577.08 | S | Peak | 40.09 | -8.05 | 32.04 | 46.00 | -13.96 |
| 966.05 | S | Peak | 35.47 | -2.03 | 33.44 | 54.00 | -20.56 |
| 995.15 | S | Peak | 40.37 | -1.87 | 38.50 | 54.00 | -15.50 |
| 10380.00 | H | Peak | 18.17 | 15.15 | 33.32 | 74.00 | -40.68 |
| 15570.00 | H | --- | | | | | |
| 20760.00 | H | --- | | | | | |
| 25950.00 | H | --- | | | | | |
| 31140.00 | H | --- | | | | | |
| 36330.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5190 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 139.61 | S | Peak | 46.34 | -13.13 | 33.21 | 43.50 | -10.29 |
| 239.52 | S | Peak | 42.06 | -14.21 | 27.85 | 46.00 | -18.15 |
| 288.02 | S | Peak | 43.82 | -12.86 | 30.96 | 46.00 | -15.04 |
| 335.55 | S | Peak | 40.23 | -11.86 | 28.37 | 46.00 | -17.63 |
| 577.08 | S | Peak | 37.95 | -8.05 | 29.90 | 46.00 | -16.10 |
| 995.15 | S | Peak | 35.83 | -1.87 | 33.96 | 54.00 | -20.04 |
| 10380.00 | H | Peak | 19.07 | 15.20 | 34.27 | 74.00 | -39.73 |
| 15570.00 | H | --- | | | | | |
| 20760.00 | H | --- | | | | | |
| 25950.00 | H | --- | | | | | |
| 31140.00 | H | --- | | | | | |
| 36330.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5230 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 37.76 | S | Peak | 46.51 | -13.72 | 32.79 | 40.00 | -7.21 |
| 95.96 | S | Peak | 51.06 | -17.13 | 33.93 | 43.50 | -9.57 |
| 158.04 | S | Peak | 40.75 | -12.30 | 28.45 | 43.50 | -15.05 |
| 577.08 | S | Peak | 40.08 | -8.05 | 32.03 | 46.00 | -13.97 |
| 962.17 | S | Peak | 35.09 | -2.05 | 33.04 | 54.00 | -20.96 |
| 995.15 | S | Peak | 38.88 | -1.87 | 37.01 | 54.00 | -16.99 |
| 10460.00 | H | Peak | 18.28 | 14.88 | 33.16 | 74.00 | -40.84 |
| 15690.00 | H | --- | | | | | |
| 20920.00 | H | --- | | | | | |
| 26150.00 | H | --- | | | | | |
| 31380.00 | H | --- | | | | | |
| 36610.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5230 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 139.61 | S | Peak | 43.78 | -13.13 | 30.65 | 43.50 | -12.85 |
| 288.02 | S | Peak | 43.71 | -12.86 | 30.85 | 46.00 | -15.15 |
| 398.60 | S | Peak | 39.54 | -11.07 | 28.47 | 46.00 | -17.53 |
| 577.08 | S | Peak | 38.04 | -8.05 | 29.99 | 46.00 | -16.01 |
| 966.05 | S | Peak | 33.84 | -2.03 | 31.81 | 54.00 | -22.19 |
| 995.15 | S | Peak | 35.46 | -1.87 | 33.59 | 54.00 | -20.41 |
| 10460.00 | H | Peak | 18.17 | 14.96 | 33.13 | 74.00 | -40.87 |
| 15690.00 | H | --- | | | | | |
| 20920.00 | H | --- | | | | | |
| 26150.00 | H | --- | | | | | |
| 31380.00 | H | --- | | | | | |
| 36610.00 | H | --- | | | | | |

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|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-11-06 |
| Fundamental Frequency | :5190 MHz | Temp./Humi. | :25.1deg_C/59RH |
| Operation Mode | :TX BANDEDGE | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5150.00 | E | Average | 41.74 | 7.37 | 49.11 | 54.00 | -4.89 |
| 5150.00 | E | Peak | 52.74 | 7.37 | 60.11 | 74.00 | -13.89 |

| | | | |
|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-11-09 |
| Fundamental Frequency | :5190 MHz | Temp./Humi. | :25.1deg_C/59RH |
| Operation Mode | :TX BANDEDGE | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5150.00 | E | Average | 43.56 | 7.47 | 51.03 | 54.00 | -2.97 |
| 5150.00 | E | Peak | 55.71 | 7.47 | 63.18 | 74.00 | -10.82 |

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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz (Internal Antenna)

| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-1 |
| Fundamental Frequency | :5260 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 38.73 | S | Peak | 47.61 | -13.59 | 34.02 | 40.00 | -5.98 |
| 95.96 | S | Peak | 50.26 | -17.13 | 33.13 | 43.50 | -10.37 |
| 189.08 | S | Peak | 45.17 | -15.53 | 29.64 | 43.50 | -13.86 |
| 577.08 | S | Peak | 39.74 | -8.05 | 31.69 | 46.00 | -14.31 |
| 966.05 | S | Peak | 35.39 | -2.03 | 33.36 | 54.00 | -20.64 |
| 995.15 | S | Peak | 39.41 | -1.87 | 37.54 | 54.00 | -16.46 |
| 10520.00 | H | Peak | 19.02 | 14.69 | 33.71 | 74.00 | -40.29 |
| 15780.00 | H | --- | | | | | |
| 21040.00 | H | --- | | | | | |
| 26300.00 | H | --- | | | | | |
| 31560.00 | H | --- | | | | | |
| 36820.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-1 |
| Fundamental Frequency | :5260 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 139.61 | S | Peak | 44.08 | -13.13 | 30.95 | 43.50 | -12.55 |
| 288.02 | S | Peak | 43.54 | -12.86 | 30.68 | 46.00 | -15.32 |
| 335.55 | S | Peak | 39.86 | -11.86 | 28.00 | 46.00 | -18.00 |
| 577.08 | S | Peak | 37.40 | -8.05 | 29.35 | 46.00 | -16.65 |
| 962.17 | S | Peak | 34.46 | -2.05 | 32.41 | 54.00 | -21.59 |
| 995.15 | S | Peak | 34.76 | -1.87 | 32.89 | 54.00 | -21.11 |
| 10520.00 | H | Peak | 18.55 | 14.78 | 33.33 | 74.00 | -40.67 |
| 15780.00 | H | --- | | | | | |
| 21040.00 | H | --- | | | | | |
| 26300.00 | H | --- | | | | | |
| 31560.00 | H | --- | | | | | |
| 36820.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-1 |
| Fundamental Frequency | :5300 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 38.73 | S | Peak | 43.72 | -13.59 | 30.13 | 40.00 | -9.87 |
| 95.96 | S | Peak | 50.61 | -17.13 | 33.48 | 43.50 | -10.02 |
| 155.13 | S | Peak | 41.50 | -12.30 | 29.20 | 43.50 | -14.30 |
| 292.87 | S | Peak | 39.51 | -12.74 | 26.77 | 46.00 | -19.23 |
| 577.08 | S | Peak | 39.90 | -8.05 | 31.85 | 46.00 | -14.15 |
| 995.15 | S | Peak | 39.77 | -1.87 | 37.90 | 54.00 | -16.10 |
| 10600.00 | H | Peak | 17.75 | 15.33 | 33.08 | 74.00 | -40.92 |
| 15900.00 | H | --- | | | | | |
| 21200.00 | H | --- | | | | | |
| 26500.00 | H | --- | | | | | |
| 31800.00 | H | --- | | | | | |
| 37100.00 | H | --- | | | | | |

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|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-1 |
| Fundamental Frequency | :5300 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 138.64 | S | Peak | 43.80 | -13.20 | 30.60 | 43.50 | -12.90 |
| 288.02 | S | Peak | 44.23 | -12.86 | 31.37 | 46.00 | -14.63 |
| 399.57 | S | Peak | 39.03 | -11.06 | 27.97 | 46.00 | -18.03 |
| 577.08 | S | Peak | 38.41 | -8.05 | 30.36 | 46.00 | -15.64 |
| 966.05 | S | Peak | 34.23 | -2.03 | 32.20 | 54.00 | -21.80 |
| 995.15 | S | Peak | 35.50 | -1.87 | 33.63 | 54.00 | -20.37 |
| 10600.00 | H | Peak | 17.87 | 15.35 | 33.22 | 74.00 | -40.78 |
| 15900.00 | H | --- | | | | | |
| 21200.00 | H | --- | | | | | |
| 26500.00 | H | --- | | | | | |
| 31800.00 | H | --- | | | | | |
| 37100.00 | H | --- | | | | | |

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|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-1 |
| Fundamental Frequency | :5320 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 36.79 | S | Peak | 45.82 | -13.86 | 31.96 | 40.00 | -8.04 |
| 95.96 | S | Peak | 50.06 | -17.13 | 32.93 | 43.50 | -10.57 |
| 158.04 | S | Peak | 39.61 | -12.30 | 27.31 | 43.50 | -16.19 |
| 577.08 | S | Peak | 39.79 | -8.05 | 31.74 | 46.00 | -14.26 |
| 962.17 | S | Peak | 35.79 | -2.05 | 33.74 | 54.00 | -20.26 |
| 995.15 | S | Peak | 39.55 | -1.87 | 37.68 | 54.00 | -16.32 |
| 10640.00 | H | Peak | 18.24 | 15.72 | 33.96 | 74.00 | -40.04 |
| 15960.00 | H | --- | | | | | |
| 21280.00 | H | --- | | | | | |
| 26600.00 | H | --- | | | | | |
| 31920.00 | H | --- | | | | | |
| 37240.00 | H | --- | | | | | |

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|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-1 |
| Fundamental Frequency | :5320 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 139.61 | S | Peak | 43.94 | -13.13 | 30.81 | 43.50 | -12.69 |
| 288.02 | S | Peak | 43.47 | -12.86 | 30.61 | 46.00 | -15.39 |
| 399.57 | S | Peak | 39.40 | -11.06 | 28.34 | 46.00 | -17.66 |
| 577.08 | S | Peak | 37.71 | -8.05 | 29.66 | 46.00 | -16.34 |
| 966.05 | S | Peak | 33.97 | -2.03 | 31.94 | 54.00 | -22.06 |
| 995.15 | S | Peak | 35.65 | -1.87 | 33.78 | 54.00 | -20.22 |
| 10640.00 | H | Peak | 17.96 | 15.71 | 33.67 | 74.00 | -40.33 |
| 15960.00 | H | --- | | | | | |
| 21280.00 | H | --- | | | | | |
| 26600.00 | H | --- | | | | | |
| 31920.00 | H | --- | | | | | |
| 37240.00 | H | --- | | | | | |

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|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-06 |
| Fundamental Frequency | :5320 MHz | Temp./Humi. | :25.1deg_C/59RH |
| Operation Mode | :TX BANDEDGE | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5350.00 | E | Average | 40.66 | 8.02 | 48.68 | 54.00 | -5.32 |
| 5350.00 | E | Peak | 50.82 | 8.02 | 58.84 | 74.00 | -15.16 |

| | | | |
|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-06 |
| Fundamental Frequency | :5320 MHz | Temp./Humi. | :25.1deg_C/59RH |
| Operation Mode | :TX BANDEDGE | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5350.00 | E | Average | 40.35 | 8.32 | 48.67 | 54.00 | -5.33 |
| 5350.00 | E | Peak | 51.72 | 8.32 | 60.04 | 74.00 | -13.96 |

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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz (Internal Antenna)

| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5260 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 36.79 | S | Peak | 47.73 | -13.86 | 33.87 | 40.00 | -6.13 |
| 95.96 | S | Peak | 50.49 | -17.13 | 33.36 | 43.50 | -10.14 |
| 155.13 | S | Peak | 43.97 | -12.30 | 31.67 | 43.50 | -11.83 |
| 577.08 | S | Peak | 39.69 | -8.05 | 31.64 | 46.00 | -14.36 |
| 962.17 | S | Peak | 34.66 | -2.05 | 32.61 | 54.00 | -21.39 |
| 995.15 | S | Peak | 38.95 | -1.87 | 37.08 | 54.00 | -16.92 |
| 10520.00 | H | Peak | 18.33 | 14.69 | 33.02 | 74.00 | -40.98 |
| 15780.00 | H | --- | | | | | |
| 21040.00 | H | --- | | | | | |
| 26300.00 | H | --- | | | | | |
| 31560.00 | H | --- | | | | | |
| 36820.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5260 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 142.52 | S | Peak | 44.81 | -12.89 | 31.92 | 43.50 | -11.58 |
| 272.50 | S | Peak | 44.82 | -13.28 | 31.54 | 46.00 | -14.46 |
| 399.57 | S | Peak | 38.76 | -11.06 | 27.70 | 46.00 | -18.30 |
| 577.08 | S | Peak | 37.96 | -8.05 | 29.91 | 46.00 | -16.09 |
| 966.05 | S | Peak | 34.23 | -2.03 | 32.20 | 54.00 | -21.80 |
| 995.15 | S | Peak | 36.78 | -1.87 | 34.91 | 54.00 | -19.09 |
| 10520.00 | H | Peak | 18.26 | 14.78 | 33.04 | 74.00 | -40.96 |
| 15780.00 | H | --- | | | | | |
| 21040.00 | H | --- | | | | | |
| 26300.00 | H | --- | | | | | |
| 31560.00 | H | --- | | | | | |
| 36820.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5300 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 36.79 | S | Peak | 45.92 | -13.86 | 32.06 | 40.00 | -7.94 |
| 95.96 | S | Peak | 49.76 | -17.13 | 32.63 | 43.50 | -10.87 |
| 191.99 | S | Peak | 43.68 | -15.76 | 27.92 | 43.50 | -15.58 |
| 577.08 | S | Peak | 40.17 | -8.05 | 32.12 | 46.00 | -13.88 |
| 966.05 | S | Peak | 34.76 | -2.03 | 32.73 | 54.00 | -21.27 |
| 995.15 | S | Peak | 39.59 | -1.87 | 37.72 | 54.00 | -16.28 |
| 10600.00 | H | Peak | 17.67 | 15.33 | 33.00 | 74.00 | -41.00 |
| 15900.00 | H | --- | | | | | |
| 21200.00 | H | --- | | | | | |
| 26500.00 | H | --- | | | | | |
| 31800.00 | H | --- | | | | | |
| 37100.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5300 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 138.64 | S | Peak | 44.79 | -13.20 | 31.59 | 43.50 | -11.91 |
| 288.02 | S | Peak | 44.13 | -12.86 | 31.27 | 46.00 | -14.73 |
| 398.60 | S | Peak | 39.66 | -11.07 | 28.59 | 46.00 | -17.41 |
| 577.08 | S | Peak | 37.41 | -8.05 | 29.36 | 46.00 | -16.64 |
| 966.05 | S | Peak | 33.64 | -2.03 | 31.61 | 54.00 | -22.39 |
| 995.15 | S | Peak | 34.78 | -1.87 | 32.91 | 54.00 | -21.09 |
| 10600.00 | H | Peak | 17.13 | 15.35 | 32.48 | 74.00 | -41.52 |
| 15900.00 | H | --- | | | | | |
| 21200.00 | H | --- | | | | | |
| 26500.00 | H | --- | | | | | |
| 31800.00 | H | --- | | | | | |
| 37100.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5320 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 38.73 | S | Peak | 45.82 | -13.59 | 32.23 | 40.00 | -7.77 |
| 95.96 | S | Peak | 51.00 | -17.13 | 33.87 | 43.50 | -9.63 |
| 158.04 | S | Peak | 40.42 | -12.30 | 28.12 | 43.50 | -15.38 |
| 577.08 | S | Peak | 39.57 | -8.05 | 31.52 | 46.00 | -14.48 |
| 966.05 | S | Peak | 35.07 | -2.03 | 33.04 | 54.00 | -20.96 |
| 995.15 | S | Peak | 38.71 | -1.87 | 36.84 | 54.00 | -17.16 |
| 10640.00 | H | Peak | 17.19 | 15.72 | 32.91 | 74.00 | -41.09 |
| 15960.00 | H | --- | | | | | |
| 21280.00 | H | --- | | | | | |
| 26600.00 | H | --- | | | | | |
| 31920.00 | H | --- | | | | | |
| 37240.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5320 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 140.58 | S | Peak | 46.15 | -13.04 | 33.11 | 43.50 | -10.39 |
| 198.78 | S | Peak | 45.20 | -16.05 | 29.15 | 43.50 | -14.35 |
| 288.02 | S | Peak | 44.10 | -12.86 | 31.24 | 46.00 | -14.76 |
| 398.60 | S | Peak | 39.48 | -11.07 | 28.41 | 46.00 | -17.59 |
| 577.08 | S | Peak | 37.44 | -8.05 | 29.39 | 46.00 | -16.61 |
| 995.15 | S | Peak | 35.60 | -1.87 | 33.73 | 54.00 | -20.27 |
| 10640.00 | H | Peak | 17.66 | 15.71 | 33.37 | 74.00 | -40.63 |
| 15960.00 | H | --- | | | | | |
| 21280.00 | H | --- | | | | | |
| 26600.00 | H | --- | | | | | |
| 31920.00 | H | --- | | | | | |
| 37240.00 | H | --- | | | | | |

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|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-06 |
| Fundamental Frequency | :5320 MHz | Temp./Humi. | :25.1deg_C/59RH |
| Operation Mode | :TX BANDEDGE | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5350.00 | E | Average | 41.25 | 8.02 | 49.27 | 54.00 | -4.73 |
| 5350.00 | E | Peak | 52.21 | 8.02 | 60.23 | 74.00 | -13.77 |

| | | | |
|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-06 |
| Fundamental Frequency | :5320 MHz | Temp./Humi. | :25.1deg_C/59RH |
| Operation Mode | :TX BANDEDGE | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5350.00 | E | Average | 43.86 | 8.32 | 52.18 | 54.00 | -1.82 |
| 5350.00 | E | Peak | 60.65 | 8.32 | 68.97 | 74.00 | -5.03 |

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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz (Internal Antenna)

| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5270 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 36.79 | S | Peak | 44.47 | -13.86 | 30.61 | 40.00 | -9.39 |
| 95.96 | S | Peak | 50.14 | -17.13 | 33.01 | 43.50 | -10.49 |
| 158.04 | S | Peak | 40.22 | -12.30 | 27.92 | 43.50 | -15.58 |
| 296.75 | S | Peak | 39.01 | -12.64 | 26.37 | 46.00 | -19.63 |
| 577.08 | S | Peak | 39.53 | -8.05 | 31.48 | 46.00 | -14.52 |
| 966.05 | S | Peak | 34.46 | -2.03 | 32.43 | 54.00 | -21.57 |
| 10540.00 | H | Peak | 18.39 | 14.83 | 33.22 | 74.00 | -40.78 |
| 15810.00 | H | --- | | | | | |
| 21080.00 | H | --- | | | | | |
| 26350.00 | H | --- | | | | | |
| 31620.00 | H | --- | | | | | |
| 36890.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5270 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 138.64 | S | Peak | 43.74 | -13.20 | 30.54 | 43.50 | -12.96 |
| 288.02 | S | Peak | 43.83 | -12.86 | 30.97 | 46.00 | -15.03 |
| 398.60 | S | Peak | 39.30 | -11.07 | 28.23 | 46.00 | -17.77 |
| 577.08 | S | Peak | 37.41 | -8.05 | 29.36 | 46.00 | -16.64 |
| 962.17 | S | Peak | 34.36 | -2.05 | 32.31 | 54.00 | -21.69 |
| 995.15 | S | Peak | 35.72 | -1.87 | 33.85 | 54.00 | -20.15 |
| 10540.00 | H | Peak | 18.34 | 14.90 | 33.24 | 74.00 | -40.76 |
| 15810.00 | H | --- | | | | | |
| 21080.00 | H | --- | | | | | |
| 26350.00 | H | --- | | | | | |
| 31620.00 | H | --- | | | | | |
| 36890.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5310 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 36.79 | S | Peak | 44.59 | -13.86 | 30.73 | 40.00 | -9.27 |
| 95.96 | S | Peak | 50.90 | -17.13 | 33.77 | 43.50 | -9.73 |
| 155.13 | S | Peak | 41.24 | -12.30 | 28.94 | 43.50 | -14.56 |
| 577.08 | S | Peak | 39.95 | -8.05 | 31.90 | 46.00 | -14.10 |
| 966.05 | S | Peak | 36.04 | -2.03 | 34.01 | 54.00 | -19.99 |
| 995.15 | S | Peak | 40.06 | -1.87 | 38.19 | 54.00 | -15.81 |
| 10620.00 | H | Peak | 17.52 | 15.50 | 33.02 | 74.00 | -40.98 |
| 15930.00 | H | --- | | | | | |
| 21240.00 | H | --- | | | | | |
| 26550.00 | H | --- | | | | | |
| 31860.00 | H | --- | | | | | |
| 37170.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5310 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 138.64 | S | Peak | 43.40 | -13.20 | 30.20 | 43.50 | -13.30 |
| 288.02 | S | Peak | 43.64 | -12.86 | 30.78 | 46.00 | -15.22 |
| 399.57 | S | Peak | 39.38 | -11.06 | 28.32 | 46.00 | -17.68 |
| 577.08 | S | Peak | 37.83 | -8.05 | 29.78 | 46.00 | -16.22 |
| 962.17 | S | Peak | 34.96 | -2.05 | 32.91 | 54.00 | -21.09 |
| 995.15 | S | Peak | 35.56 | -1.87 | 33.69 | 54.00 | -20.31 |
| 10620.00 | H | Peak | 17.88 | 15.51 | 33.39 | 74.00 | -40.61 |
| 15930.00 | H | --- | | | | | |
| 21240.00 | H | --- | | | | | |
| 26550.00 | H | --- | | | | | |
| 31860.00 | H | --- | | | | | |
| 37170.00 | H | --- | | | | | |

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|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-11-06 |
| Fundamental Frequency | :5310 MHz | Temp./Humi. | :25.1deg_C/59RH |
| Operation Mode | :TX BANDEDGE | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5350.00 | E | Average | 43.50 | 8.02 | 51.52 | 54.00 | -2.48 |
| 5350.00 | E | Peak | 54.93 | 8.02 | 62.95 | 74.00 | -11.05 |

| | | | |
|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-11-09 |
| Fundamental Frequency | :5310 MHz | Temp./Humi. | :25.1deg_C/59RH |
| Operation Mode | :TX BANDEDGE | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5350.00 | E | Average | 44.05 | 8.32 | 52.37 | 54.00 | -1.63 |
| 5350.00 | E | Peak | 56.36 | 8.32 | 64.68 | 74.00 | -9.32 |

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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz (Internal Antenna)

| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-1 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 36.79 | S | Peak | 44.58 | -13.86 | 30.72 | 40.00 | -9.28 |
| 95.96 | S | Peak | 50.33 | -17.13 | 33.20 | 43.50 | -10.30 |
| 157.07 | S | Peak | 40.42 | -12.29 | 28.13 | 43.50 | -15.37 |
| 577.08 | S | Peak | 40.54 | -8.05 | 32.49 | 46.00 | -13.51 |
| 966.05 | S | Peak | 35.51 | -2.03 | 33.48 | 54.00 | -20.52 |
| 995.15 | S | Peak | 38.20 | -1.87 | 36.33 | 54.00 | -17.67 |
| 11000.00 | H | Peak | 18.13 | 16.54 | 34.67 | 74.00 | -39.33 |
| 16500.00 | H | --- | | | | | |
| 22000.00 | H | --- | | | | | |
| 27500.00 | H | --- | | | | | |
| 33000.00 | H | --- | | | | | |
| 38500.00 | H | --- | | | | | |

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|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-1 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 138.64 | S | Peak | 43.58 | -13.20 | 30.38 | 43.50 | -13.12 |
| 288.02 | S | Peak | 43.96 | -12.86 | 31.10 | 46.00 | -14.90 |
| 398.60 | S | Peak | 39.47 | -11.07 | 28.40 | 46.00 | -17.60 |
| 577.08 | S | Peak | 37.73 | -8.05 | 29.68 | 46.00 | -16.32 |
| 966.05 | S | Peak | 34.72 | -2.03 | 32.69 | 54.00 | -21.31 |
| 995.15 | S | Peak | 34.99 | -1.87 | 33.12 | 54.00 | -20.88 |
| 11000.00 | H | Peak | 18.01 | 16.44 | 34.45 | 74.00 | -39.55 |
| 16500.00 | H | --- | | | | | |
| 22000.00 | H | --- | | | | | |
| 27500.00 | H | --- | | | | | |
| 33000.00 | H | --- | | | | | |
| 38500.00 | H | --- | | | | | |

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|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-1 |
| Fundamental Frequency | :5580 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 37.76 | S | Peak | 43.76 | -13.72 | 30.04 | 40.00 | -9.96 |
| 95.96 | S | Peak | 50.21 | -17.13 | 33.08 | 43.50 | -10.42 |
| 183.26 | S | Peak | 45.26 | -14.89 | 30.37 | 43.50 | -13.13 |
| 577.08 | S | Peak | 40.10 | -8.05 | 32.05 | 46.00 | -13.95 |
| 966.05 | S | Peak | 34.62 | -2.03 | 32.59 | 54.00 | -21.41 |
| 995.15 | S | Peak | 39.21 | -1.87 | 37.34 | 54.00 | -16.66 |
| 11160.00 | H | Peak | 18.16 | 16.93 | 35.09 | 74.00 | -38.91 |
| 16740.00 | H | --- | | | | | |
| 22320.00 | H | --- | | | | | |
| 27900.00 | H | --- | | | | | |
| 33480.00 | H | --- | | | | | |
| 39060.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-1 |
| Fundamental Frequency | :5580 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 139.61 | S | Peak | 44.63 | -13.13 | 31.50 | 43.50 | -12.00 |
| 175.50 | S | Peak | 41.90 | -13.90 | 28.00 | 43.50 | -15.50 |
| 288.02 | S | Peak | 43.71 | -12.86 | 30.85 | 46.00 | -15.15 |
| 399.57 | S | Peak | 39.41 | -11.06 | 28.35 | 46.00 | -17.65 |
| 577.08 | S | Peak | 38.56 | -8.05 | 30.51 | 46.00 | -15.49 |
| 995.15 | S | Peak | 35.67 | -1.87 | 33.80 | 54.00 | -20.20 |
| 11160.00 | H | Peak | 17.46 | 16.70 | 34.16 | 74.00 | -39.84 |
| 16740.00 | H | --- | | | | | |
| 22320.00 | H | --- | | | | | |
| 27900.00 | H | --- | | | | | |
| 33480.00 | H | --- | | | | | |
| 39060.00 | H | --- | | | | | |

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|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-1 |
| Fundamental Frequency | :5700 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 37.76 | S | Peak | 43.82 | -13.72 | 30.10 | 40.00 | -9.90 |
| 95.96 | S | Peak | 50.41 | -17.13 | 33.28 | 43.50 | -10.22 |
| 152.22 | S | Peak | 41.52 | -12.32 | 29.20 | 43.50 | -14.30 |
| 577.08 | S | Peak | 40.14 | -8.05 | 32.09 | 46.00 | -13.91 |
| 966.05 | S | Peak | 34.51 | -2.03 | 32.48 | 54.00 | -21.52 |
| 995.15 | S | Peak | 40.05 | -1.87 | 38.18 | 54.00 | -15.82 |
| 11400.00 | H | Peak | 18.14 | 17.30 | 35.44 | 74.00 | -38.56 |
| 17100.00 | H | --- | | | | | |
| 22800.00 | H | --- | | | | | |
| 28500.00 | H | --- | | | | | |
| 34200.00 | H | --- | | | | | |
| 39900.00 | H | --- | | | | | |

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|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-1 |
| Fundamental Frequency | :5700 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 139.61 | S | Peak | 43.59 | -13.13 | 30.46 | 43.50 | -13.04 |
| 288.02 | S | Peak | 43.79 | -12.86 | 30.93 | 46.00 | -15.07 |
| 398.60 | S | Peak | 39.59 | -11.07 | 28.52 | 46.00 | -17.48 |
| 577.08 | S | Peak | 37.62 | -8.05 | 29.57 | 46.00 | -16.43 |
| 966.05 | S | Peak | 33.74 | -2.03 | 31.71 | 54.00 | -22.29 |
| 995.15 | S | Peak | 34.77 | -1.87 | 32.90 | 54.00 | -21.10 |
| 11400.00 | H | Peak | 18.27 | 17.06 | 35.33 | 74.00 | -38.67 |
| 17100.00 | H | --- | | | | | |
| 22800.00 | H | --- | | | | | |
| 28500.00 | H | --- | | | | | |
| 34200.00 | H | --- | | | | | |
| 39900.00 | H | --- | | | | | |

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|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-06 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :25.1deg_C/59RH |
| Operation Mode | :TX BANDEDGE | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5460.00 | E | Average | 41.34 | 7.77 | 49.11 | 54.00 | -4.89 |
| 5460.00 | E | Peak | 51.10 | 7.77 | 58.87 | 74.00 | -15.13 |

| | | | |
|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-06 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :25.1deg_C/59RH |
| Operation Mode | :TX BANDEDGE | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5460.00 | E | Average | 40.49 | 8.07 | 48.56 | 54.00 | -5.44 |
| 5460.00 | E | Peak | 50.79 | 8.07 | 58.86 | 74.00 | -15.14 |

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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz (Internal Antenna)

| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 36.79 | S | Peak | 47.88 | -13.86 | 34.02 | 40.00 | -5.98 |
| 95.96 | S | Peak | 50.10 | -17.13 | 32.97 | 43.50 | -10.53 |
| 178.41 | S | Peak | 45.27 | -14.31 | 30.96 | 43.50 | -12.54 |
| 577.08 | S | Peak | 39.51 | -8.05 | 31.46 | 46.00 | -14.54 |
| 966.05 | S | Peak | 36.25 | -2.03 | 34.22 | 54.00 | -19.78 |
| 995.15 | S | Peak | 39.44 | -1.87 | 37.57 | 54.00 | -16.43 |
| 11000.00 | H | Peak | 18.43 | 16.54 | 34.97 | 74.00 | -39.03 |
| 16500.00 | H | --- | | | | | |
| 22000.00 | H | --- | | | | | |
| 27500.00 | H | --- | | | | | |
| 33000.00 | H | --- | | | | | |
| 38500.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 139.61 | S | Peak | 44.58 | -13.13 | 31.45 | 43.50 | -12.05 |
| 288.02 | S | Peak | 43.69 | -12.86 | 30.83 | 46.00 | -15.17 |
| 335.55 | S | Peak | 40.25 | -11.86 | 28.39 | 46.00 | -17.61 |
| 577.08 | S | Peak | 37.50 | -8.05 | 29.45 | 46.00 | -16.55 |
| 966.05 | S | Peak | 34.30 | -2.03 | 32.27 | 54.00 | -21.73 |
| 995.15 | S | Peak | 35.14 | -1.87 | 33.27 | 54.00 | -20.73 |
| 11000.00 | H | Peak | 17.94 | 16.44 | 34.38 | 74.00 | -39.62 |
| 16500.00 | H | --- | | | | | |
| 22000.00 | H | --- | | | | | |
| 27500.00 | H | --- | | | | | |
| 33000.00 | H | --- | | | | | |
| 38500.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5580 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 36.79 | S | Peak | 44.19 | -13.86 | 30.33 | 40.00 | -9.67 |
| 95.96 | S | Peak | 50.92 | -17.13 | 33.79 | 43.50 | -9.71 |
| 157.07 | S | Peak | 41.15 | -12.29 | 28.86 | 43.50 | -14.64 |
| 577.08 | S | Peak | 39.74 | -8.05 | 31.69 | 46.00 | -14.31 |
| 966.05 | S | Peak | 34.76 | -2.03 | 32.73 | 54.00 | -21.27 |
| 995.15 | S | Peak | 38.91 | -1.87 | 37.04 | 54.00 | -16.96 |
| 11160.00 | H | Peak | 17.49 | 16.93 | 34.42 | 74.00 | -39.58 |
| 16740.00 | H | --- | | | | | |
| 22320.00 | H | --- | | | | | |
| 27900.00 | H | --- | | | | | |
| 33480.00 | H | --- | | | | | |
| 39060.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5580 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 138.64 | S | Peak | 43.35 | -13.20 | 30.15 | 43.50 | -13.35 |
| 288.02 | S | Peak | 43.99 | -12.86 | 31.13 | 46.00 | -14.87 |
| 398.60 | S | Peak | 39.84 | -11.07 | 28.77 | 46.00 | -17.23 |
| 577.08 | S | Peak | 37.54 | -8.05 | 29.49 | 46.00 | -16.51 |
| 962.17 | S | Peak | 34.39 | -2.05 | 32.34 | 54.00 | -21.66 |
| 995.15 | S | Peak | 35.30 | -1.87 | 33.43 | 54.00 | -20.57 |
| 11160.00 | H | Peak | 17.56 | 16.70 | 34.26 | 74.00 | -39.74 |
| 16740.00 | H | --- | | | | | |
| 22320.00 | H | --- | | | | | |
| 27900.00 | H | --- | | | | | |
| 33480.00 | H | --- | | | | | |
| 39060.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5700 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 36.79 | S | Peak | 45.55 | -13.86 | 31.69 | 40.00 | -8.31 |
| 95.96 | S | Peak | 50.21 | -17.13 | 33.08 | 43.50 | -10.42 |
| 180.35 | S | Peak | 45.17 | -14.58 | 30.59 | 43.50 | -12.91 |
| 577.08 | S | Peak | 39.99 | -8.05 | 31.94 | 46.00 | -14.06 |
| 962.17 | S | Peak | 35.78 | -2.05 | 33.73 | 54.00 | -20.27 |
| 995.15 | S | Peak | 39.83 | -1.87 | 37.96 | 54.00 | -16.04 |
| 11400.00 | H | Peak | 18.51 | 17.30 | 35.81 | 74.00 | -38.19 |
| 17100.00 | H | --- | | | | | |
| 22800.00 | H | --- | | | | | |
| 28500.00 | H | --- | | | | | |
| 34200.00 | H | --- | | | | | |
| 39900.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5700 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 138.64 | S | Peak | 43.13 | -13.20 | 29.93 | 43.50 | -13.57 |
| 288.02 | S | Peak | 43.77 | -12.86 | 30.91 | 46.00 | -15.09 |
| 335.55 | S | Peak | 40.97 | -11.86 | 29.11 | 46.00 | -16.89 |
| 398.60 | S | Peak | 39.50 | -11.07 | 28.43 | 46.00 | -17.57 |
| 577.08 | S | Peak | 37.81 | -8.05 | 29.76 | 46.00 | -16.24 |
| 995.15 | S | Peak | 35.97 | -1.87 | 34.10 | 54.00 | -19.90 |
| 11400.00 | H | Peak | 18.32 | 17.06 | 35.38 | 74.00 | -38.62 |
| 17100.00 | H | --- | | | | | |
| 22800.00 | H | --- | | | | | |
| 28500.00 | H | --- | | | | | |
| 34200.00 | H | --- | | | | | |
| 39900.00 | H | --- | | | | | |

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|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-06 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :25.1deg_C/59RH |
| Operation Mode | :TX BANDEDGE | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5460.00 | E | Average | 41.30 | 7.77 | 49.07 | 54.00 | -4.93 |
| 5460.00 | E | Peak | 50.89 | 7.77 | 58.66 | 74.00 | -15.34 |

| | | | |
|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-06 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :25.1deg_C/59RH |
| Operation Mode | :TX BANDEDGE | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5460.00 | E | Average | 42.32 | 8.07 | 50.39 | 54.00 | -3.61 |
| 5460.00 | E | Peak | 52.26 | 8.07 | 60.33 | 74.00 | -13.67 |

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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz (Internal Antenna)

| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5510 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 37.76 | S | Peak | 45.28 | -13.72 | 31.56 | 40.00 | -8.44 |
| 95.96 | S | Peak | 50.19 | -17.13 | 33.06 | 43.50 | -10.44 |
| 159.01 | S | Peak | 40.29 | -12.28 | 28.01 | 43.50 | -15.49 |
| 577.08 | S | Peak | 40.03 | -8.05 | 31.98 | 46.00 | -14.02 |
| 966.05 | S | Peak | 34.43 | -2.03 | 32.40 | 54.00 | -21.60 |
| 995.15 | S | Peak | 38.92 | -1.87 | 37.05 | 54.00 | -16.95 |
| 11020.00 | H | Peak | 18.91 | 16.58 | 35.49 | 74.00 | -38.51 |
| 16530.00 | H | --- | | | | | |
| 22040.00 | H | --- | | | | | |
| 27550.00 | H | --- | | | | | |
| 33060.00 | H | --- | | | | | |
| 38570.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5510 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 138.64 | S | Peak | 44.27 | -13.20 | 31.07 | 43.50 | -12.43 |
| 288.02 | S | Peak | 43.95 | -12.86 | 31.09 | 46.00 | -14.91 |
| 398.60 | S | Peak | 39.30 | -11.07 | 28.23 | 46.00 | -17.77 |
| 577.08 | S | Peak | 37.70 | -8.05 | 29.65 | 46.00 | -16.35 |
| 966.05 | S | Peak | 33.93 | -2.03 | 31.90 | 54.00 | -22.10 |
| 995.15 | S | Peak | 34.78 | -1.87 | 32.91 | 54.00 | -21.09 |
| 11020.00 | H | Peak | 18.49 | 16.46 | 34.95 | 74.00 | -39.05 |
| 16530.00 | H | --- | | | | | |
| 22040.00 | H | --- | | | | | |
| 27550.00 | H | --- | | | | | |
| 33060.00 | H | --- | | | | | |
| 38570.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5590 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 36.79 | S | Peak | 44.65 | -13.86 | 30.79 | 40.00 | -9.21 |
| 95.96 | S | Peak | 50.33 | -17.13 | 33.20 | 43.50 | -10.30 |
| 157.07 | S | Peak | 40.61 | -12.29 | 28.32 | 43.50 | -15.18 |
| 577.08 | S | Peak | 39.94 | -8.05 | 31.89 | 46.00 | -14.11 |
| 672.14 | S | Peak | 35.02 | -6.16 | 28.86 | 46.00 | -17.14 |
| 995.15 | S | Peak | 39.21 | -1.87 | 37.34 | 54.00 | -16.66 |
| 11180.00 | H | Peak | 18.43 | 16.99 | 35.42 | 74.00 | -38.58 |
| 16770.00 | H | --- | | | | | |
| 22360.00 | H | --- | | | | | |
| 27950.00 | H | --- | | | | | |
| 33540.00 | H | --- | | | | | |
| 39130.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5590 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 139.61 | S | Peak | 44.46 | -13.13 | 31.33 | 43.50 | -12.17 |
| 174.53 | S | Peak | 41.07 | -13.76 | 27.31 | 43.50 | -16.19 |
| 288.02 | S | Peak | 43.73 | -12.86 | 30.87 | 46.00 | -15.13 |
| 399.57 | S | Peak | 38.62 | -11.06 | 27.56 | 46.00 | -18.44 |
| 577.08 | S | Peak | 37.73 | -8.05 | 29.68 | 46.00 | -16.32 |
| 995.15 | S | Peak | 35.88 | -1.87 | 34.01 | 54.00 | -19.99 |
| 11180.00 | H | Peak | 17.37 | 16.75 | 34.12 | 74.00 | -39.88 |
| 16770.00 | H | --- | | | | | |
| 22360.00 | H | --- | | | | | |
| 27950.00 | H | --- | | | | | |
| 33540.00 | H | --- | | | | | |
| 39130.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5670 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 36.79 | S | Peak | 44.56 | -13.86 | 30.70 | 40.00 | -9.30 |
| 95.96 | S | Peak | 51.10 | -17.13 | 33.97 | 43.50 | -9.53 |
| 186.17 | S | Peak | 47.67 | -15.22 | 32.45 | 43.50 | -11.05 |
| 577.08 | S | Peak | 39.71 | -8.05 | 31.66 | 46.00 | -14.34 |
| 966.05 | S | Peak | 34.63 | -2.03 | 32.60 | 54.00 | -21.40 |
| 995.15 | S | Peak | 38.81 | -1.87 | 36.94 | 54.00 | -17.06 |
| 11340.00 | H | Peak | 17.58 | 17.24 | 34.82 | 74.00 | -39.18 |
| 17010.00 | H | --- | | | | | |
| 22680.00 | H | --- | | | | | |
| 28350.00 | H | --- | | | | | |
| 34020.00 | H | --- | | | | | |
| 39690.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-11-1 |
| Fundamental Frequency | :5670 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 138.64 | S | Peak | 43.61 | -13.20 | 30.41 | 43.50 | -13.09 |
| 288.02 | S | Peak | 44.05 | -12.86 | 31.19 | 46.00 | -14.81 |
| 398.60 | S | Peak | 39.23 | -11.07 | 28.16 | 46.00 | -17.84 |
| 577.08 | S | Peak | 37.92 | -8.05 | 29.87 | 46.00 | -16.13 |
| 966.05 | S | Peak | 34.61 | -2.03 | 32.58 | 54.00 | -21.42 |
| 995.15 | S | Peak | 35.86 | -1.87 | 33.99 | 54.00 | -20.01 |
| 11340.00 | H | Peak | 18.17 | 16.98 | 35.15 | 74.00 | -38.85 |
| 17010.00 | H | --- | | | | | |
| 22680.00 | H | --- | | | | | |
| 28350.00 | H | --- | | | | | |
| 34020.00 | H | --- | | | | | |
| 39690.00 | H | --- | | | | | |

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Operation Band :802.11n40M Test Date :2012-11-06
Fundamental Frequency :5510 MHz Temp./Humi. :25.1deg_C/59RH
Operation Mode :TX BANDEDGE Engineer :Marcus
EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5460.00 | E | Average | 41.21 | 7.77 | 48.98 | 54.00 | -5.02 |
| 5460.00 | E | Peak | 52.56 | 7.77 | 60.33 | 74.00 | -13.67 |

Operation Band :802.11n40M Test Date :2012-11-06
Fundamental Frequency :5510 MHz Temp./Humi. :25.1deg_C/59RH
Operation Mode :TX BANDEDGE Engineer :Marcus
EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5460.00 | E | Average | 41.63 | 8.07 | 49.70 | 54.00 | -4.30 |
| 5460.00 | E | Peak | 51.54 | 8.07 | 59.61 | 74.00 | -14.39 |

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Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz**(External Antenna (MIMO))**

| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-10-27 |
| Fundamental Frequency | :5180 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 47.46 | S | Peak | 48.91 | -13.85 | 35.06 | 40.00 | -4.94 |
| 153.19 | S | Peak | 44.01 | -12.32 | 31.69 | 43.50 | -11.81 |
| 270.56 | S | Peak | 43.44 | -13.34 | 30.10 | 46.00 | -15.90 |
| 364.65 | S | Peak | 38.29 | -11.50 | 26.79 | 46.00 | -19.21 |
| 672.14 | S | Peak | 34.38 | -6.16 | 28.22 | 46.00 | -17.78 |
| 966.05 | S | Peak | 32.05 | -2.03 | 30.02 | 54.00 | -23.98 |
| 10360.00 | H | Peak | 18.23 | 15.14 | 33.37 | 74.00 | -40.63 |
| 15540.00 | H | --- | | | | | |
| 20720.00 | H | --- | | | | | |
| 25900.00 | H | --- | | | | | |
| 31080.00 | H | --- | | | | | |
| 36260.00 | H | --- | | | | | |

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|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-10-27 |
| Fundamental Frequency | :5180 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 185.20 | S | Peak | 49.23 | -15.10 | 34.13 | 43.50 | -9.37 |
| 273.47 | S | Peak | 45.36 | -13.25 | 32.11 | 46.00 | -13.89 |
| 366.59 | S | Peak | 43.04 | -11.48 | 31.56 | 46.00 | -14.44 |
| 696.39 | S | Peak | 35.62 | -5.79 | 29.83 | 46.00 | -16.17 |
| 934.04 | S | Peak | 33.36 | -2.25 | 31.11 | 46.00 | -14.89 |
| 966.05 | S | Peak | 32.34 | -2.03 | 30.31 | 54.00 | -23.69 |
| 10360.00 | H | Peak | 18.62 | 15.17 | 33.79 | 74.00 | -40.21 |
| 15540.00 | H | --- | | | | | |
| 20720.00 | H | --- | | | | | |
| 25900.00 | H | --- | | | | | |
| 31080.00 | H | --- | | | | | |
| 36260.00 | H | --- | | | | | |

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|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-10-27 |
| Fundamental Frequency | :5220 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 47.46 | S | Peak | 49.61 | -13.85 | 35.76 | 40.00 | -4.24 |
| 152.22 | S | Peak | 44.81 | -12.32 | 32.49 | 43.50 | -11.01 |
| 272.50 | S | Peak | 43.46 | -13.28 | 30.18 | 46.00 | -15.82 |
| 366.59 | S | Peak | 37.99 | -11.48 | 26.51 | 46.00 | -19.49 |
| 798.24 | S | Peak | 34.67 | -4.22 | 30.45 | 46.00 | -15.55 |
| 995.15 | S | Peak | 31.35 | -1.87 | 29.48 | 54.00 | -24.52 |
| 10440.00 | H | Peak | 19.66 | 14.92 | 34.58 | 74.00 | -39.42 |
| 15660.00 | H | --- | | | | | |
| 20880.00 | H | --- | | | | | |
| 26100.00 | H | --- | | | | | |
| 31320.00 | H | --- | | | | | |
| 36540.00 | H | --- | | | | | |

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f (886-2) 2298-0488

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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-10-27 |
| Fundamental Frequency | :5220 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 185.20 | S | Peak | 48.19 | -15.10 | 33.09 | 43.50 | -10.41 |
| 273.47 | S | Peak | 44.93 | -13.25 | 31.68 | 46.00 | -14.32 |
| 364.65 | S | Peak | 42.62 | -11.50 | 31.12 | 46.00 | -14.88 |
| 577.08 | S | Peak | 38.81 | -8.05 | 30.76 | 46.00 | -15.24 |
| 799.21 | S | Peak | 36.37 | -4.21 | 32.16 | 46.00 | -13.84 |
| 962.17 | S | Peak | 31.82 | -2.05 | 29.77 | 54.00 | -24.23 |
| 10440.00 | H | Peak | 18.96 | 15.00 | 33.96 | 74.00 | -40.04 |
| 15660.00 | H | --- | | | | | |
| 20880.00 | H | --- | | | | | |
| 26100.00 | H | --- | | | | | |
| 31320.00 | H | --- | | | | | |
| 36540.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-10-27 |
| Fundamental Frequency | :5240 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 46.49 | S | Peak | 48.55 | -13.80 | 34.75 | 40.00 | -5.25 |
| 154.16 | S | Peak | 43.95 | -12.30 | 31.65 | 43.50 | -11.85 |
| 270.56 | S | Peak | 43.34 | -13.34 | 30.00 | 46.00 | -16.00 |
| 566.41 | S | Peak | 36.61 | -8.25 | 28.36 | 46.00 | -17.64 |
| 696.39 | S | Peak | 35.00 | -5.79 | 29.21 | 46.00 | -16.79 |
| 966.05 | S | Peak | 31.69 | -2.03 | 29.66 | 54.00 | -24.34 |
| 10480.00 | H | Peak | 18.70 | 14.83 | 33.53 | 74.00 | -40.47 |
| 15720.00 | H | --- | | | | | |
| 20960.00 | H | --- | | | | | |
| 26200.00 | H | --- | | | | | |
| 31440.00 | H | --- | | | | | |
| 36680.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-10-27 |
| Fundamental Frequency | :5240 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 182.29 | S | Peak | 47.35 | -14.78 | 32.57 | 43.50 | -10.93 |
| 273.47 | S | Peak | 46.23 | -13.25 | 32.98 | 46.00 | -13.02 |
| 364.65 | S | Peak | 43.34 | -11.50 | 31.84 | 46.00 | -14.16 |
| 577.08 | S | Peak | 38.19 | -8.05 | 30.14 | 46.00 | -15.86 |
| 766.23 | S | Peak | 34.92 | -4.69 | 30.23 | 46.00 | -15.77 |
| 799.21 | S | Peak | 36.72 | -4.21 | 32.51 | 46.00 | -13.49 |
| 10480.00 | H | Peak | 18.67 | 14.92 | 33.59 | 74.00 | -40.41 |
| 15720.00 | H | --- | | | | | |
| 20960.00 | H | --- | | | | | |
| 26200.00 | H | --- | | | | | |
| 31440.00 | H | --- | | | | | |
| 36680.00 | H | --- | | | | | |

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Operation Band :802.11a (MIMO) Test Date :2012-11-09
Fundamental Frequency :5180 MHz Temp./Humi. :25.1deg_C/64RH
Operation Mode :TX BANDEDGE Engineer :Marcus
EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5150.00 | E | Average | 39.94 | 7.37 | 47.31 | 54.00 | -6.69 |
| 5150.00 | E | Peak | 51.58 | 7.37 | 58.95 | 74.00 | -15.05 |

Operation Band :802.11a (MIMO) Test Date :2012-11-09
Fundamental Frequency :5180 MHz Temp./Humi. :25.1deg_C/64RH
Operation Mode :TX BANDEDGE Engineer :Marcus
EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5150.00 | E | Average | 39.13 | 7.47 | 46.60 | 54.00 | -7.40 |
| 5150.00 | E | Peak | 51.12 | 7.47 | 58.59 | 74.00 | -15.41 |

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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

(External Antenna (MIMO))

| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5180 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 47.46 | S | Peak | 48.00 | -13.85 | 34.15 | 40.00 | -5.85 |
| 154.16 | S | Peak | 41.59 | -12.30 | 29.29 | 43.50 | -14.21 |
| 288.02 | S | Peak | 35.80 | -12.86 | 22.94 | 46.00 | -23.06 |
| 577.08 | S | Peak | 37.59 | -8.05 | 29.54 | 46.00 | -16.46 |
| 672.14 | S | Peak | 34.87 | -6.16 | 28.71 | 46.00 | -17.29 |
| 966.05 | S | Peak | 31.22 | -2.03 | 29.19 | 54.00 | -24.81 |
| 10360.00 | H | Peak | 18.22 | 15.14 | 33.36 | 74.00 | -40.64 |
| 15540.00 | H | --- | | | | | |
| 20720.00 | H | --- | | | | | |
| 25900.00 | H | --- | | | | | |
| 31080.00 | H | --- | | | | | |
| 36260.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5180 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 182.29 | S | Peak | 42.90 | -14.78 | 28.12 | 43.50 | -15.38 |
| 240.49 | S | Peak | 43.15 | -14.19 | 28.96 | 46.00 | -17.04 |
| 366.59 | S | Peak | 43.54 | -11.48 | 32.06 | 46.00 | -13.94 |
| 577.08 | S | Peak | 39.19 | -8.05 | 31.14 | 46.00 | -14.86 |
| 766.23 | S | Peak | 35.24 | -4.69 | 30.55 | 46.00 | -15.45 |
| 934.04 | S | Peak | 33.37 | -2.25 | 31.12 | 46.00 | -14.88 |
| 10360.00 | H | Peak | 18.96 | 15.17 | 34.13 | 74.00 | -39.87 |
| 15540.00 | H | --- | | | | | |
| 20720.00 | H | --- | | | | | |
| 25900.00 | H | --- | | | | | |
| 31080.00 | H | --- | | | | | |
| 36260.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5220 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 47.46 | S | Peak | 47.73 | -13.85 | 33.88 | 40.00 | -6.12 |
| 154.16 | S | Peak | 41.51 | -12.30 | 29.21 | 43.50 | -14.29 |
| 366.59 | S | Peak | 38.14 | -11.48 | 26.66 | 46.00 | -19.34 |
| 577.08 | S | Peak | 37.17 | -8.05 | 29.12 | 46.00 | -16.88 |
| 800.18 | S | Peak | 33.20 | -4.19 | 29.01 | 46.00 | -16.99 |
| 995.15 | S | Peak | 31.31 | -1.87 | 29.44 | 54.00 | -24.56 |
| 10440.00 | H | Peak | 19.16 | 14.92 | 34.08 | 74.00 | -39.92 |
| 15660.00 | H | --- | | | | | |
| 20880.00 | H | --- | | | | | |
| 26100.00 | H | --- | | | | | |
| 31320.00 | H | --- | | | | | |
| 36540.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5220 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 182.29 | S | Peak | 42.28 | -14.78 | 27.50 | 43.50 | -16.00 |
| 239.52 | S | Peak | 42.54 | -14.21 | 28.33 | 46.00 | -17.67 |
| 288.02 | S | Peak | 43.23 | -12.86 | 30.37 | 46.00 | -15.63 |
| 366.59 | S | Peak | 43.02 | -11.48 | 31.54 | 46.00 | -14.46 |
| 799.21 | S | Peak | 37.20 | -4.21 | 32.99 | 46.00 | -13.01 |
| 934.04 | S | Peak | 32.44 | -2.25 | 30.19 | 46.00 | -15.81 |
| 10440.00 | H | Peak | 19.10 | 15.00 | 34.10 | 74.00 | -39.90 |
| 15660.00 | H | --- | | | | | |
| 20880.00 | H | --- | | | | | |
| 26100.00 | H | --- | | | | | |
| 31320.00 | H | --- | | | | | |
| 36540.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5240 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 47.46 | S | Peak | 47.19 | -13.85 | 33.34 | 40.00 | -6.66 |
| 153.19 | S | Peak | 41.08 | -12.32 | 28.76 | 43.50 | -14.74 |
| 366.59 | S | Peak | 37.98 | -11.48 | 26.50 | 46.00 | -19.50 |
| 577.08 | S | Peak | 37.34 | -8.05 | 29.29 | 46.00 | -16.71 |
| 763.32 | S | Peak | 33.06 | -4.74 | 28.32 | 46.00 | -17.68 |
| 966.05 | S | Peak | 31.77 | -2.03 | 29.74 | 54.00 | -24.26 |
| 10480.00 | H | Peak | 18.14 | 14.83 | 32.97 | 74.00 | -41.03 |
| 15720.00 | H | --- | | | | | |
| 20960.00 | H | --- | | | | | |
| 26200.00 | H | --- | | | | | |
| 31440.00 | H | --- | | | | | |
| 36680.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5240 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 182.29 | S | Peak | 42.39 | -14.78 | 27.61 | 43.50 | -15.89 |
| 288.02 | S | Peak | 43.39 | -12.86 | 30.53 | 46.00 | -15.47 |
| 364.65 | S | Peak | 43.08 | -11.50 | 31.58 | 46.00 | -14.42 |
| 577.08 | S | Peak | 39.32 | -8.05 | 31.27 | 46.00 | -14.73 |
| 699.30 | S | Peak | 36.47 | -5.76 | 30.71 | 46.00 | -15.29 |
| 797.27 | S | Peak | 36.71 | -4.24 | 32.47 | 46.00 | -13.53 |
| 10480.00 | H | Peak | 18.56 | 14.92 | 33.48 | 74.00 | -40.52 |
| 15720.00 | H | --- | | | | | |
| 20960.00 | H | --- | | | | | |
| 26200.00 | H | --- | | | | | |
| 31440.00 | H | --- | | | | | |
| 36680.00 | H | --- | | | | | |

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Operation Band :802.11n20M (MIMO) Test Date :2012-11-09
Fundamental Frequency :5180 MHz Temp./Humi. :25.1deg_C/64RH
Operation Mode :TX BANDEDGE Engineer :Marcus
EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5150.00 | E | Average | 39.94 | 7.37 | 47.31 | 54.00 | -6.69 |
| 5150.00 | E | Peak | 52.51 | 7.37 | 59.88 | 74.00 | -14.12 |

Operation Band :802.11n20M (MIMO) Test Date :2012-11-09
Fundamental Frequency :5180 MHz Temp./Humi. :25.1deg_C/64RH
Operation Mode :TX BANDEDGE Engineer :Marcus
EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5150.00 | E | Average | 39.53 | 7.47 | 47.00 | 54.00 | -7.00 |
| 5150.00 | E | Peak | 51.88 | 7.47 | 59.35 | 74.00 | -14.65 |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz (Internal Antenna)

| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5190 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 47.46 | S | Peak | 47.16 | -13.85 | 33.31 | 40.00 | -6.69 |
| 153.19 | S | Peak | 39.35 | -12.32 | 27.03 | 43.50 | -16.47 |
| 366.59 | S | Peak | 38.28 | -11.48 | 26.80 | 46.00 | -19.20 |
| 577.08 | S | Peak | 36.91 | -8.05 | 28.86 | 46.00 | -17.14 |
| 766.23 | S | Peak | 32.24 | -4.69 | 27.55 | 46.00 | -18.45 |
| 966.05 | S | Peak | 32.49 | -2.03 | 30.46 | 54.00 | -23.54 |
| 10380.00 | H | Peak | 18.66 | 15.15 | 33.81 | 74.00 | -40.19 |
| 15570.00 | H | --- | | | | | |
| 20760.00 | H | --- | | | | | |
| 25950.00 | H | --- | | | | | |
| 31140.00 | H | --- | | | | | |
| 36330.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5190 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 240.49 | S | Peak | 43.32 | -14.19 | 29.13 | 46.00 | -16.87 |
| 288.02 | S | Peak | 43.19 | -12.86 | 30.33 | 46.00 | -15.67 |
| 364.65 | S | Peak | 42.97 | -11.50 | 31.47 | 46.00 | -14.53 |
| 633.34 | S | Peak | 35.01 | -6.89 | 28.12 | 46.00 | -17.88 |
| 800.18 | S | Peak | 35.19 | -4.19 | 31.00 | 46.00 | -15.00 |
| 934.04 | S | Peak | 32.17 | -2.25 | 29.92 | 46.00 | -16.08 |
| 10380.00 | H | Peak | 18.40 | 15.20 | 33.60 | 74.00 | -40.40 |
| 15570.00 | H | --- | | | | | |
| 20760.00 | H | --- | | | | | |
| 25950.00 | H | --- | | | | | |
| 31140.00 | H | --- | | | | | |
| 36330.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5230 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 47.46 | S | Peak | 47.12 | -13.85 | 33.27 | 40.00 | -6.73 |
| 154.16 | S | Peak | 38.66 | -12.30 | 26.36 | 43.50 | -17.14 |
| 288.02 | S | Peak | 35.58 | -12.86 | 22.72 | 46.00 | -23.28 |
| 366.59 | S | Peak | 37.74 | -11.48 | 26.26 | 46.00 | -19.74 |
| 672.14 | S | Peak | 33.42 | -6.16 | 27.26 | 46.00 | -18.74 |
| 966.05 | S | Peak | 31.28 | -2.03 | 29.25 | 54.00 | -24.75 |
| 10460.00 | H | Peak | 18.95 | 14.88 | 33.83 | 74.00 | -40.17 |
| 15690.00 | H | --- | | | | | |
| 20920.00 | H | --- | | | | | |
| 26150.00 | H | --- | | | | | |
| 31380.00 | H | --- | | | | | |
| 36610.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5230 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 239.52 | S | Peak | 43.55 | -14.21 | 29.34 | 46.00 | -16.66 |
| 366.59 | S | Peak | 42.33 | -11.48 | 30.85 | 46.00 | -15.15 |
| 431.58 | S | Peak | 33.80 | -10.40 | 23.40 | 46.00 | -22.60 |
| 699.30 | S | Peak | 34.10 | -5.76 | 28.34 | 46.00 | -17.66 |
| 799.21 | S | Peak | 35.24 | -4.21 | 31.03 | 46.00 | -14.97 |
| 934.04 | S | Peak | 33.95 | -2.25 | 31.70 | 46.00 | -14.30 |
| 10460.00 | H | Peak | 18.58 | 14.96 | 33.54 | 74.00 | -40.46 |
| 15690.00 | H | --- | | | | | |
| 20920.00 | H | --- | | | | | |
| 26150.00 | H | --- | | | | | |
| 31380.00 | H | --- | | | | | |
| 36610.00 | H | --- | | | | | |

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| | | | |
|-----------------------|--------------------|--------------------------|-----------------|
| Operation Band | :802.11n40M (MIMO) | Test Date | :2012-11-09 |
| Fundamental Frequency | :5190 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX BANDEDGE | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5150.00 | E | Average | 41.60 | 7.37 | 48.97 | 54.00 | -5.03 |
| 5150.00 | E | Peak | 53.46 | 7.37 | 60.83 | 74.00 | -13.17 |

| | | | |
|-----------------------|--------------------|--------------------------|-----------------|
| Operation Band | :802.11n40M (MIMO) | Test Date | :2012-11-09 |
| Fundamental Frequency | :5190 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX BANDEDGE | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5150.00 | E | Average | 39.44 | 7.47 | 46.91 | 54.00 | -7.09 |
| 5150.00 | E | Peak | 51.95 | 7.47 | 59.42 | 74.00 | -14.58 |

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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz (Internal Antenna)

| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-10-27 |
| Fundamental Frequency | :5260 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 47.46 | S | Peak | 49.26 | -13.85 | 35.41 | 40.00 | -4.59 |
| 153.19 | S | Peak | 44.80 | -12.32 | 32.48 | 43.50 | -11.02 |
| 274.44 | S | Peak | 42.61 | -13.21 | 29.40 | 46.00 | -16.60 |
| 577.08 | S | Peak | 36.87 | -8.05 | 28.82 | 46.00 | -17.18 |
| 766.23 | S | Peak | 32.33 | -4.69 | 27.64 | 46.00 | -18.36 |
| 995.15 | S | Peak | 32.23 | -1.87 | 30.36 | 54.00 | -23.64 |
| 10520.00 | H | Peak | 18.71 | 14.69 | 33.40 | 74.00 | -40.60 |
| 15780.00 | H | --- | | | | | |
| 21040.00 | H | --- | | | | | |
| 26300.00 | H | --- | | | | | |
| 31560.00 | H | --- | | | | | |
| 36820.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-10-27 |
| Fundamental Frequency | :5260 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 183.26 | S | Peak | 47.86 | -14.89 | 32.97 | 43.50 | -10.53 |
| 273.47 | S | Peak | 46.85 | -13.25 | 33.60 | 46.00 | -12.40 |
| 366.59 | S | Peak | 43.32 | -11.48 | 31.84 | 46.00 | -14.16 |
| 577.08 | S | Peak | 39.53 | -8.05 | 31.48 | 46.00 | -14.52 |
| 799.21 | S | Peak | 38.91 | -4.21 | 34.70 | 46.00 | -11.30 |
| 966.05 | S | Peak | 31.29 | -2.03 | 29.26 | 54.00 | -24.74 |
| 10520.00 | H | Peak | 17.95 | 14.78 | 32.73 | 74.00 | -41.27 |
| 15780.00 | H | --- | | | | | |
| 21040.00 | H | --- | | | | | |
| 26300.00 | H | --- | | | | | |
| 31560.00 | H | --- | | | | | |
| 36820.00 | H | --- | | | | | |

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|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-10-27 |
| Fundamental Frequency | :5300 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 47.46 | S | Peak | 49.04 | -13.85 | 35.19 | 40.00 | -4.81 |
| 153.19 | S | Peak | 45.50 | -12.32 | 33.18 | 43.50 | -10.32 |
| 271.53 | S | Peak | 43.21 | -13.32 | 29.89 | 46.00 | -16.11 |
| 577.08 | S | Peak | 37.00 | -8.05 | 28.95 | 46.00 | -17.05 |
| 696.39 | S | Peak | 33.93 | -5.79 | 28.14 | 46.00 | -17.86 |
| 966.05 | S | Peak | 31.34 | -2.03 | 29.31 | 54.00 | -24.69 |
| 10600.00 | H | Peak | 17.93 | 15.33 | 33.26 | 74.00 | -40.74 |
| 15900.00 | H | --- | | | | | |
| 21200.00 | H | --- | | | | | |
| 26500.00 | H | --- | | | | | |
| 31800.00 | H | --- | | | | | |
| 37100.00 | H | --- | | | | | |

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|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-10-27 |
| Fundamental Frequency | :5300 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 183.26 | S | Peak | 47.76 | -14.89 | 32.87 | 43.50 | -10.63 |
| 272.50 | S | Peak | 47.41 | -13.28 | 34.13 | 46.00 | -11.87 |
| 366.59 | S | Peak | 43.48 | -11.48 | 32.00 | 46.00 | -14.00 |
| 699.30 | S | Peak | 35.18 | -5.76 | 29.42 | 46.00 | -16.58 |
| 796.30 | S | Peak | 36.17 | -4.24 | 31.93 | 46.00 | -14.07 |
| 962.17 | S | Peak | 32.09 | -2.05 | 30.04 | 54.00 | -23.96 |
| 10600.00 | H | Peak | 17.66 | 15.35 | 33.01 | 74.00 | -40.99 |
| 15900.00 | H | --- | | | | | |
| 21200.00 | H | --- | | | | | |
| 26500.00 | H | --- | | | | | |
| 31800.00 | H | --- | | | | | |
| 37100.00 | H | --- | | | | | |

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|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-10-27 |
| Fundamental Frequency | :5320 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 47.46 | S | Peak | 49.27 | -13.85 | 35.42 | 40.00 | -4.58 |
| 152.22 | S | Peak | 45.44 | -12.32 | 33.12 | 43.50 | -10.38 |
| 271.53 | S | Peak | 43.68 | -13.32 | 30.36 | 46.00 | -15.64 |
| 566.41 | S | Peak | 36.08 | -8.25 | 27.83 | 46.00 | -18.17 |
| 796.30 | S | Peak | 33.37 | -4.24 | 29.13 | 46.00 | -16.87 |
| 995.15 | S | Peak | 32.30 | -1.87 | 30.43 | 54.00 | -23.57 |
| 10640.00 | H | Peak | 18.68 | 15.72 | 34.40 | 74.00 | -39.60 |
| 15960.00 | H | --- | | | | | |
| 21280.00 | H | --- | | | | | |
| 26600.00 | H | --- | | | | | |
| 31920.00 | H | --- | | | | | |
| 37240.00 | H | --- | | | | | |

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|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-10-27 |
| Fundamental Frequency | :5320 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 182.29 | S | Peak | 48.23 | -14.78 | 33.45 | 43.50 | -10.05 |
| 273.47 | S | Peak | 47.76 | -13.25 | 34.51 | 46.00 | -11.49 |
| 366.59 | S | Peak | 42.81 | -11.48 | 31.33 | 46.00 | -14.67 |
| 699.30 | S | Peak | 35.97 | -5.76 | 30.21 | 46.00 | -15.79 |
| 799.21 | S | Peak | 37.26 | -4.21 | 33.05 | 46.00 | -12.95 |
| 934.04 | S | Peak | 31.62 | -2.25 | 29.37 | 46.00 | -16.63 |
| 10640.00 | H | Peak | 17.83 | 15.71 | 33.54 | 74.00 | -40.46 |
| 15960.00 | H | --- | | | | | |
| 21280.00 | H | --- | | | | | |
| 26600.00 | H | --- | | | | | |
| 31920.00 | H | --- | | | | | |
| 37240.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-----------------|--------------------------|-----------------|
| Operation Band | :802.11a (MIMO) | Test Date | :2012-11-09 |
| Fundamental Frequency | :5320 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX BANDEDGE | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5350.00 | E | Average | 41.20 | 8.02 | 49.22 | 54.00 | -4.78 |
| 5350.00 | E | Peak | 50.98 | 8.02 | 59.00 | 74.00 | -15.00 |

| | | | |
|-----------------------|-----------------|--------------------------|-----------------|
| Operation Band | :802.11a (MIMO) | Test Date | :2012-11-09 |
| Fundamental Frequency | :5320 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX BANDEDGE | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5350.00 | E | Average | 39.88 | 8.32 | 48.20 | 54.00 | -5.80 |
| 5350.00 | E | Peak | 50.98 | 8.32 | 59.30 | 74.00 | -14.70 |

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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz**(External Antenna (MIMO))**

| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5260 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 47.46 | S | Peak | 46.82 | -13.85 | 32.97 | 40.00 | -7.03 |
| 153.19 | S | Peak | 40.66 | -12.32 | 28.34 | 43.50 | -15.16 |
| 366.59 | S | Peak | 37.93 | -11.48 | 26.45 | 46.00 | -19.55 |
| 577.08 | S | Peak | 37.27 | -8.05 | 29.22 | 46.00 | -16.78 |
| 672.14 | S | Peak | 34.99 | -6.16 | 28.83 | 46.00 | -17.17 |
| 797.27 | S | Peak | 34.54 | -4.24 | 30.30 | 46.00 | -15.70 |
| 10520.00 | H | Peak | 18.58 | 14.69 | 33.27 | 74.00 | -40.73 |
| 15780.00 | H | --- | | | | | |
| 21040.00 | H | --- | | | | | |
| 26300.00 | H | --- | | | | | |
| 31560.00 | H | --- | | | | | |
| 36820.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5260 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 182.29 | S | Peak | 43.18 | -14.78 | 28.40 | 43.50 | -15.10 |
| 288.02 | S | Peak | 43.54 | -12.86 | 30.68 | 46.00 | -15.32 |
| 366.59 | S | Peak | 43.87 | -11.48 | 32.39 | 46.00 | -13.61 |
| 577.08 | S | Peak | 39.16 | -8.05 | 31.11 | 46.00 | -14.89 |
| 796.30 | S | Peak | 36.41 | -4.24 | 32.17 | 46.00 | -13.83 |
| 934.04 | S | Peak | 31.91 | -2.25 | 29.66 | 46.00 | -16.34 |
| 10520.00 | H | Peak | 18.65 | 14.78 | 33.43 | 74.00 | -40.57 |
| 15780.00 | H | --- | | | | | |
| 21040.00 | H | --- | | | | | |
| 26300.00 | H | --- | | | | | |
| 31560.00 | H | --- | | | | | |
| 36820.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5300 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 47.46 | S | Peak | 46.87 | -13.85 | 33.02 | 40.00 | -6.98 |
| 95.96 | S | Peak | 46.39 | -17.13 | 29.26 | 43.50 | -14.24 |
| 366.59 | S | Peak | 37.78 | -11.48 | 26.30 | 46.00 | -19.70 |
| 577.08 | S | Peak | 37.38 | -8.05 | 29.33 | 46.00 | -16.67 |
| 795.33 | S | Peak | 32.59 | -4.26 | 28.33 | 46.00 | -17.67 |
| 962.17 | S | Peak | 30.96 | -2.05 | 28.91 | 54.00 | -25.09 |
| 10600.00 | H | Peak | 19.14 | 15.33 | 34.47 | 74.00 | -39.53 |
| 15900.00 | H | --- | | | | | |
| 21200.00 | H | --- | | | | | |
| 26500.00 | H | --- | | | | | |
| 31800.00 | H | --- | | | | | |
| 37100.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5300 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 182.29 | S | Peak | 43.13 | -14.78 | 28.35 | 43.50 | -15.15 |
| 288.02 | S | Peak | 43.58 | -12.86 | 30.72 | 46.00 | -15.28 |
| 366.59 | S | Peak | 43.11 | -11.48 | 31.63 | 46.00 | -14.37 |
| 577.08 | S | Peak | 39.65 | -8.05 | 31.60 | 46.00 | -14.40 |
| 672.14 | S | Peak | 36.44 | -6.16 | 30.28 | 46.00 | -15.72 |
| 897.18 | S | Peak | 33.20 | -2.87 | 30.33 | 46.00 | -15.67 |
| 10600.00 | H | Peak | 19.15 | 15.35 | 34.50 | 74.00 | -39.50 |
| 15900.00 | H | --- | | | | | |
| 21200.00 | H | --- | | | | | |
| 26500.00 | H | --- | | | | | |
| 31800.00 | H | --- | | | | | |
| 37100.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5320 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 47.46 | S | Peak | 47.24 | -13.85 | 33.39 | 40.00 | -6.61 |
| 95.96 | S | Peak | 46.44 | -17.13 | 29.31 | 43.50 | -14.19 |
| 366.59 | S | Peak | 37.90 | -11.48 | 26.42 | 46.00 | -19.58 |
| 564.47 | S | Peak | 37.10 | -8.28 | 28.82 | 46.00 | -17.18 |
| 799.21 | S | Peak | 32.03 | -4.21 | 27.82 | 46.00 | -18.18 |
| 995.15 | S | Peak | 31.14 | -1.87 | 29.27 | 54.00 | -24.73 |
| 10640.00 | H | Peak | 17.71 | 15.72 | 33.43 | 74.00 | -40.57 |
| 15960.00 | H | --- | | | | | |
| 21280.00 | H | --- | | | | | |
| 26600.00 | H | --- | | | | | |
| 31920.00 | H | --- | | | | | |
| 37240.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5320 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 182.29 | S | Peak | 42.45 | -14.78 | 27.67 | 43.50 | -15.83 |
| 288.02 | S | Peak | 43.44 | -12.86 | 30.58 | 46.00 | -15.42 |
| 366.59 | S | Peak | 43.21 | -11.48 | 31.73 | 46.00 | -14.27 |
| 577.08 | S | Peak | 38.57 | -8.05 | 30.52 | 46.00 | -15.48 |
| 766.23 | S | Peak | 35.24 | -4.69 | 30.55 | 46.00 | -15.45 |
| 897.18 | S | Peak | 32.45 | -2.87 | 29.58 | 46.00 | -16.42 |
| 10640.00 | H | Peak | 19.28 | 15.71 | 34.99 | 74.00 | -39.01 |
| 15960.00 | H | --- | | | | | |
| 21280.00 | H | --- | | | | | |
| 26600.00 | H | --- | | | | | |
| 31920.00 | H | --- | | | | | |
| 37240.00 | H | --- | | | | | |

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Operation Band :802.11n20M (MIMO) Test Date :2012-11-09
Fundamental Frequency :5320 MHz Temp./Humi. :25.1deg_C/64RH
Operation Mode :TX BANDEDGE Engineer :Marcus
EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5350.00 | E | Average | 41.65 | 8.02 | 49.67 | 54.00 | -4.33 |
| 5350.00 | E | Peak | 53.98 | 8.02 | 62.00 | 74.00 | -12.00 |

Operation Band :802.11n20M (MIMO) Test Date :2012-11-09
Fundamental Frequency :5320 MHz Temp./Humi. :25.1deg_C/64RH
Operation Mode :TX BANDEDGE Engineer :Marcus
EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5350.00 | E | Average | 39.88 | 8.32 | 48.20 | 54.00 | -5.80 |
| 5350.00 | E | Peak | 52.07 | 8.32 | 60.39 | 74.00 | -13.61 |

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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz**(External Antenna (MIMO))**

| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5270 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 47.46 | S | Peak | 47.37 | -13.85 | 33.52 | 40.00 | -6.48 |
| 154.16 | S | Peak | 39.00 | -12.30 | 26.70 | 43.50 | -16.80 |
| 366.59 | S | Peak | 38.11 | -11.48 | 26.63 | 46.00 | -19.37 |
| 577.08 | S | Peak | 37.11 | -8.05 | 29.06 | 46.00 | -16.94 |
| 796.30 | S | Peak | 35.67 | -4.24 | 31.43 | 46.00 | -14.57 |
| 995.15 | S | Peak | 31.43 | -1.87 | 29.56 | 54.00 | -24.44 |
| 10540.00 | H | Peak | 18.56 | 14.83 | 33.39 | 74.00 | -40.61 |
| 15810.00 | H | --- | | | | | |
| 21080.00 | H | --- | | | | | |
| 26350.00 | H | --- | | | | | |
| 31620.00 | H | --- | | | | | |
| 36890.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5270 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 239.52 | S | Peak | 43.66 | -14.21 | 29.45 | 46.00 | -16.55 |
| 288.02 | S | Peak | 43.00 | -12.86 | 30.14 | 46.00 | -15.86 |
| 364.65 | S | Peak | 42.98 | -11.50 | 31.48 | 46.00 | -14.52 |
| 577.08 | S | Peak | 37.95 | -8.05 | 29.90 | 46.00 | -16.10 |
| 799.21 | S | Peak | 38.71 | -4.21 | 34.50 | 46.00 | -11.50 |
| 962.17 | S | Peak | 31.94 | -2.05 | 29.89 | 54.00 | -24.11 |
| 10540.00 | H | Peak | 18.47 | 14.90 | 33.37 | 74.00 | -40.63 |
| 15810.00 | H | --- | | | | | |
| 21080.00 | H | --- | | | | | |
| 26350.00 | H | --- | | | | | |
| 31620.00 | H | --- | | | | | |
| 36890.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5310 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 47.46 | S | Peak | 47.39 | -13.85 | 33.54 | 40.00 | -6.46 |
| 95.96 | S | Peak | 45.42 | -17.13 | 28.29 | 43.50 | -15.21 |
| 366.59 | S | Peak | 38.43 | -11.48 | 26.95 | 46.00 | -19.05 |
| 577.08 | S | Peak | 37.35 | -8.05 | 29.30 | 46.00 | -16.70 |
| 798.24 | S | Peak | 31.63 | -4.22 | 27.41 | 46.00 | -18.59 |
| 995.15 | S | Peak | 31.33 | -1.87 | 29.46 | 54.00 | -24.54 |
| 10620.00 | H | Peak | 17.59 | 15.50 | 33.09 | 74.00 | -40.91 |
| 15930.00 | H | --- | | | | | |
| 21240.00 | H | --- | | | | | |
| 26550.00 | H | --- | | | | | |
| 31860.00 | H | --- | | | | | |
| 37170.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5310 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 182.29 | S | Peak | 40.61 | -14.78 | 25.83 | 43.50 | -17.67 |
| 288.02 | S | Peak | 43.18 | -12.86 | 30.32 | 46.00 | -15.68 |
| 366.59 | S | Peak | 42.58 | -11.48 | 31.10 | 46.00 | -14.90 |
| 577.08 | S | Peak | 38.02 | -8.05 | 29.97 | 46.00 | -16.03 |
| 799.21 | S | Peak | 38.93 | -4.21 | 34.72 | 46.00 | -11.28 |
| 962.17 | S | Peak | 31.64 | -2.05 | 29.59 | 54.00 | -24.41 |
| 10620.00 | H | Peak | 17.53 | 15.51 | 33.04 | 74.00 | -40.96 |
| 15930.00 | H | --- | | | | | |
| 21240.00 | H | --- | | | | | |
| 26550.00 | H | --- | | | | | |
| 31860.00 | H | --- | | | | | |
| 37170.00 | H | --- | | | | | |

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Operation Band :802.11n40M (MIMO) Test Date :2012-11-09
Fundamental Frequency :5310 MHz Temp./Humi. :25.1deg_C/64RH
Operation Mode :TX BANDEDGE Engineer :Marcus
EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5350.00 | E | Average | 43.15 | 8.02 | 51.17 | 54.00 | -2.83 |
| 5350.00 | E | Peak | 55.39 | 8.02 | 63.41 | 74.00 | -10.59 |

Operation Band :802.11n40M (MIMO) Test Date :2012-11-09
Fundamental Frequency :5310 MHz Temp./Humi. :25.1deg_C/64RH
Operation Mode :TX BANDEDGE Engineer :Marcus
EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5350.00 | E | Average | 40.21 | 8.32 | 48.53 | 54.00 | -5.47 |
| 5350.00 | E | Peak | 51.91 | 8.32 | 60.23 | 74.00 | -13.77 |

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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

(External Antenna (MIMO))

| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-10-27 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 47.46 | S | Peak | 48.02 | -13.85 | 34.17 | 40.00 | -5.83 |
| 152.22 | S | Peak | 43.72 | -12.32 | 31.40 | 43.50 | -12.10 |
| 271.53 | S | Peak | 42.39 | -13.32 | 29.07 | 46.00 | -16.93 |
| 577.08 | S | Peak | 37.30 | -8.05 | 29.25 | 46.00 | -16.75 |
| 797.27 | S | Peak | 34.70 | -4.24 | 30.46 | 46.00 | -15.54 |
| 966.05 | S | Peak | 32.04 | -2.03 | 30.01 | 54.00 | -23.99 |
| 11000.00 | H | Peak | 18.63 | 16.54 | 35.17 | 74.00 | -38.83 |
| 16500.00 | H | --- | | | | | |
| 22000.00 | H | --- | | | | | |
| 27500.00 | H | --- | | | | | |
| 33000.00 | H | --- | | | | | |
| 38500.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-10-27 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 182.29 | S | Peak | 46.79 | -14.78 | 32.01 | 43.50 | -11.49 |
| 364.65 | S | Peak | 42.74 | -11.50 | 31.24 | 46.00 | -14.76 |
| 577.08 | S | Peak | 38.87 | -8.05 | 30.82 | 46.00 | -15.18 |
| 796.30 | S | Peak | 36.04 | -4.24 | 31.80 | 46.00 | -14.20 |
| 934.04 | S | Peak | 33.88 | -2.25 | 31.63 | 46.00 | -14.37 |
| 995.15 | S | Peak | 29.88 | -1.87 | 28.01 | 54.00 | -25.99 |
| 11000.00 | H | Peak | 18.12 | 16.44 | 34.56 | 74.00 | -39.44 |
| 16500.00 | H | --- | | | | | |
| 22000.00 | H | --- | | | | | |
| 27500.00 | H | --- | | | | | |
| 33000.00 | H | --- | | | | | |
| 38500.00 | H | --- | | | | | |

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|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-10-27 |
| Fundamental Frequency | :5580 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 47.46 | S | Peak | 48.55 | -13.85 | 34.70 | 40.00 | -5.30 |
| 152.22 | S | Peak | 43.30 | -12.32 | 30.98 | 43.50 | -12.52 |
| 366.59 | S | Peak | 37.92 | -11.48 | 26.44 | 46.00 | -19.56 |
| 566.41 | S | Peak | 35.77 | -8.25 | 27.52 | 46.00 | -18.48 |
| 672.14 | S | Peak | 33.94 | -6.16 | 27.78 | 46.00 | -18.22 |
| 995.15 | S | Peak | 32.03 | -1.87 | 30.16 | 54.00 | -23.84 |
| 11160.00 | H | Peak | 18.06 | 16.93 | 34.99 | 74.00 | -39.01 |
| 16740.00 | H | --- | | | | | |
| 22320.00 | H | --- | | | | | |
| 27900.00 | H | --- | | | | | |
| 33480.00 | H | --- | | | | | |
| 39060.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-10-27 |
| Fundamental Frequency | :5580 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 184.23 | S | Peak | 44.98 | -15.00 | 29.98 | 43.50 | -13.52 |
| 288.02 | S | Peak | 43.86 | -12.86 | 31.00 | 46.00 | -15.00 |
| 364.65 | S | Peak | 43.46 | -11.50 | 31.96 | 46.00 | -14.04 |
| 577.08 | S | Peak | 39.39 | -8.05 | 31.34 | 46.00 | -14.66 |
| 797.27 | S | Peak | 37.97 | -4.24 | 33.73 | 46.00 | -12.27 |
| 934.04 | S | Peak | 32.51 | -2.25 | 30.26 | 46.00 | -15.74 |
| 11160.00 | H | Peak | 18.69 | 16.70 | 35.39 | 74.00 | -38.61 |
| 16740.00 | H | --- | | | | | |
| 22320.00 | H | --- | | | | | |
| 27900.00 | H | --- | | | | | |
| 33480.00 | H | --- | | | | | |
| 39060.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-10-27 |
| Fundamental Frequency | :5700 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 47.46 | S | Peak | 48.74 | -13.85 | 34.89 | 40.00 | -5.11 |
| 155.13 | S | Peak | 42.17 | -12.30 | 29.87 | 43.50 | -13.63 |
| 366.59 | S | Peak | 38.09 | -11.48 | 26.61 | 46.00 | -19.39 |
| 564.47 | S | Peak | 35.39 | -8.28 | 27.11 | 46.00 | -18.89 |
| 763.32 | S | Peak | 32.60 | -4.74 | 27.86 | 46.00 | -18.14 |
| 966.05 | S | Peak | 30.76 | -2.03 | 28.73 | 54.00 | -25.27 |
| 11400.00 | H | Peak | 18.62 | 17.30 | 35.92 | 74.00 | -38.08 |
| 17100.00 | H | --- | | | | | |
| 22800.00 | H | --- | | | | | |
| 28500.00 | H | --- | | | | | |
| 34200.00 | H | --- | | | | | |
| 39900.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-10-27 |
| Fundamental Frequency | :5700 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 183.26 | S | Peak | 42.75 | -14.89 | 27.86 | 43.50 | -15.64 |
| 288.02 | S | Peak | 43.18 | -12.86 | 30.32 | 46.00 | -15.68 |
| 366.59 | S | Peak | 43.89 | -11.48 | 32.41 | 46.00 | -13.59 |
| 577.08 | S | Peak | 38.97 | -8.05 | 30.92 | 46.00 | -15.08 |
| 697.36 | S | Peak | 36.31 | -5.78 | 30.53 | 46.00 | -15.47 |
| 796.30 | S | Peak | 35.21 | -4.24 | 30.97 | 46.00 | -15.03 |
| 11400.00 | H | Peak | 18.59 | 17.06 | 35.65 | 74.00 | -38.35 |
| 17100.00 | H | --- | | | | | |
| 22800.00 | H | --- | | | | | |
| 28500.00 | H | --- | | | | | |
| 34200.00 | H | --- | | | | | |
| 39900.00 | H | --- | | | | | |

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|-----------------------|-----------------|--------------------------|-----------------|
| Operation Band | :802.11a (MIMO) | Test Date | :2012-11-09 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX BANDEDGE | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5460.00 | E | Average | 40.66 | 7.77 | 48.43 | 54.00 | -5.57 |
| 5460.00 | E | Peak | 53.24 | 7.77 | 61.01 | 74.00 | -12.99 |

| | | | |
|-----------------------|-----------------|--------------------------|-----------------|
| Operation Band | :802.11a (MIMO) | Test Date | :2012-11-09 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX BANDEDGE | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5460.00 | E | Average | 39.79 | 8.07 | 47.86 | 54.00 | -6.14 |
| 5460.00 | E | Peak | 52.74 | 8.07 | 60.81 | 74.00 | -13.19 |

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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

(External Antenna (MIMO))

| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 47.46 | S | Peak | 47.09 | -13.85 | 33.24 | 40.00 | -6.76 |
| 152.22 | S | Peak | 38.89 | -12.32 | 26.57 | 43.50 | -16.93 |
| 366.59 | S | Peak | 38.28 | -11.48 | 26.80 | 46.00 | -19.20 |
| 577.08 | S | Peak | 37.33 | -8.05 | 29.28 | 46.00 | -16.72 |
| 699.30 | S | Peak | 33.39 | -5.76 | 27.63 | 46.00 | -18.37 |
| 966.05 | S | Peak | 31.83 | -2.03 | 29.80 | 54.00 | -24.20 |
| 11000.00 | H | Peak | 17.53 | 16.54 | 34.07 | 74.00 | -39.93 |
| 16500.00 | H | --- | | | | | |
| 22000.00 | H | --- | | | | | |
| 27500.00 | H | --- | | | | | |
| 33000.00 | H | --- | | | | | |
| 38500.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5500 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 240.49 | S | Peak | 42.41 | -14.19 | 28.22 | 46.00 | -17.78 |
| 366.59 | S | Peak | 42.92 | -11.48 | 31.44 | 46.00 | -14.56 |
| 577.08 | S | Peak | 37.66 | -8.05 | 29.61 | 46.00 | -16.39 |
| 699.30 | S | Peak | 35.23 | -5.76 | 29.47 | 46.00 | -16.53 |
| 766.23 | S | Peak | 35.50 | -4.69 | 30.81 | 46.00 | -15.19 |
| 897.18 | S | Peak | 33.59 | -2.87 | 30.72 | 46.00 | -15.28 |
| 11000.00 | H | Peak | 18.38 | 16.44 | 34.82 | 74.00 | -39.18 |
| 16500.00 | H | --- | | | | | |
| 22000.00 | H | --- | | | | | |
| 27500.00 | H | --- | | | | | |
| 33000.00 | H | --- | | | | | |
| 38500.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5580 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 47.46 | S | Peak | 47.00 | -13.85 | 33.15 | 40.00 | -6.85 |
| 154.16 | S | Peak | 39.15 | -12.30 | 26.85 | 43.50 | -16.65 |
| 366.59 | S | Peak | 37.96 | -11.48 | 26.48 | 46.00 | -19.52 |
| 577.08 | S | Peak | 37.58 | -8.05 | 29.53 | 46.00 | -16.47 |
| 796.30 | S | Peak | 31.90 | -4.24 | 27.66 | 46.00 | -18.34 |
| 995.15 | S | Peak | 32.39 | -1.87 | 30.52 | 54.00 | -23.48 |
| 11160.00 | H | Peak | 18.54 | 16.93 | 35.47 | 74.00 | -38.53 |
| 16740.00 | H | --- | | | | | |
| 22320.00 | H | --- | | | | | |
| 27900.00 | H | --- | | | | | |
| 33480.00 | H | --- | | | | | |
| 39060.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5580 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 239.52 | S | Peak | 42.58 | -14.21 | 28.37 | 46.00 | -17.63 |
| 288.02 | S | Peak | 43.23 | -12.86 | 30.37 | 46.00 | -15.63 |
| 366.59 | S | Peak | 42.61 | -11.48 | 31.13 | 46.00 | -14.87 |
| 577.08 | S | Peak | 37.80 | -8.05 | 29.75 | 46.00 | -16.25 |
| 763.32 | S | Peak | 34.25 | -4.74 | 29.51 | 46.00 | -16.49 |
| 962.17 | S | Peak | 32.16 | -2.05 | 30.11 | 54.00 | -23.89 |
| 11160.00 | H | Peak | 17.64 | 16.70 | 34.34 | 74.00 | -39.66 |
| 16740.00 | H | --- | | | | | |
| 22320.00 | H | --- | | | | | |
| 27900.00 | H | --- | | | | | |
| 33480.00 | H | --- | | | | | |
| 39060.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5700 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 47.46 | S | Peak | 46.94 | -13.85 | 33.09 | 40.00 | -6.91 |
| 95.96 | S | Peak | 46.04 | -17.13 | 28.91 | 43.50 | -14.59 |
| 191.99 | S | Peak | 41.88 | -15.76 | 26.12 | 43.50 | -17.38 |
| 366.59 | S | Peak | 38.32 | -11.48 | 26.84 | 46.00 | -19.16 |
| 577.08 | S | Peak | 36.91 | -8.05 | 28.86 | 46.00 | -17.14 |
| 995.15 | S | Peak | 31.53 | -1.87 | 29.66 | 54.00 | -24.34 |
| 11400.00 | H | Peak | 18.93 | 17.30 | 36.23 | 74.00 | -37.77 |
| 17100.00 | H | --- | | | | | |
| 22800.00 | H | --- | | | | | |
| 28500.00 | H | --- | | | | | |
| 34200.00 | H | --- | | | | | |
| 39900.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5700 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 239.52 | S | Peak | 42.73 | -14.21 | 28.52 | 46.00 | -17.48 |
| 288.02 | S | Peak | 43.31 | -12.86 | 30.45 | 46.00 | -15.55 |
| 364.65 | S | Peak | 42.58 | -11.50 | 31.08 | 46.00 | -14.92 |
| 577.08 | S | Peak | 37.59 | -8.05 | 29.54 | 46.00 | -16.46 |
| 696.39 | S | Peak | 34.81 | -5.79 | 29.02 | 46.00 | -16.98 |
| 934.04 | S | Peak | 32.91 | -2.25 | 30.66 | 46.00 | -15.34 |
| 11400.00 | H | Peak | 18.04 | 17.06 | 35.10 | 74.00 | -38.90 |
| 17100.00 | H | --- | | | | | |
| 22800.00 | H | --- | | | | | |
| 28500.00 | H | --- | | | | | |
| 34200.00 | H | --- | | | | | |
| 39900.00 | H | --- | | | | | |

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Operation Band :802.11n20M (MIMO) Test Date :2012-11-09
Fundamental Frequency :5500 MHz Temp./Humi. :25.1deg_C/64RH
Operation Mode :TX BANDEDGE Engineer :Marcus
EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5460.00 | E | Average | 41.31 | 7.77 | 49.08 | 54.00 | -4.92 |
| 5460.00 | E | Peak | 54.06 | 7.77 | 61.83 | 74.00 | -12.17 |

Operation Band :802.11n20M (MIMO) Test Date :2012-11-09
Fundamental Frequency :5500 MHz Temp./Humi. :25.1deg_C/64RH
Operation Mode :TX BANDEDGE Engineer :Marcus
EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5460.00 | E | Average | 39.49 | 8.07 | 47.56 | 54.00 | -6.44 |
| 5460.00 | E | Peak | 52.47 | 8.07 | 60.54 | 74.00 | -13.46 |

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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

(External Antenna (MIMO))

| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5510 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 31.94 | S | Peak | 49.21 | -14.30 | 34.91 | 40.00 | -5.09 |
| 95.96 | S | Peak | 45.66 | -17.13 | 28.53 | 43.50 | -14.97 |
| 364.65 | S | Peak | 38.22 | -11.50 | 26.72 | 46.00 | -19.28 |
| 577.08 | S | Peak | 37.92 | -8.05 | 29.87 | 46.00 | -16.13 |
| 766.23 | S | Peak | 33.11 | -4.69 | 28.42 | 46.00 | -17.58 |
| 995.15 | S | Peak | 31.69 | -1.87 | 29.82 | 54.00 | -24.18 |
| 11020.00 | H | Peak | 17.90 | 16.58 | 34.48 | 74.00 | -39.52 |
| 16530.00 | H | --- | | | | | |
| 22040.00 | H | --- | | | | | |
| 27550.00 | H | --- | | | | | |
| 33060.00 | H | --- | | | | | |
| 38570.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5510 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 239.52 | S | Peak | 42.48 | -14.21 | 28.27 | 46.00 | -17.73 |
| 288.02 | S | Peak | 43.36 | -12.86 | 30.50 | 46.00 | -15.50 |
| 366.59 | S | Peak | 43.41 | -11.48 | 31.93 | 46.00 | -14.07 |
| 577.08 | S | Peak | 37.37 | -8.05 | 29.32 | 46.00 | -16.68 |
| 796.30 | S | Peak | 36.47 | -4.24 | 32.23 | 46.00 | -13.77 |
| 962.17 | S | Peak | 31.82 | -2.05 | 29.77 | 54.00 | -24.23 |
| 11020.00 | H | Peak | 17.72 | 16.46 | 34.18 | 74.00 | -39.82 |
| 16530.00 | H | --- | | | | | |
| 22040.00 | H | --- | | | | | |
| 27550.00 | H | --- | | | | | |
| 33060.00 | H | --- | | | | | |
| 38570.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5590 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 30.97 | S | Peak | 49.34 | -14.33 | 35.01 | 40.00 | -4.99 |
| 47.46 | S | Peak | 48.61 | -13.85 | 34.76 | 40.00 | -5.24 |
| 366.59 | S | Peak | 38.22 | -11.48 | 26.74 | 46.00 | -19.26 |
| 577.08 | S | Peak | 36.96 | -8.05 | 28.91 | 46.00 | -17.09 |
| 763.32 | S | Peak | 32.23 | -4.74 | 27.49 | 46.00 | -18.51 |
| 966.05 | S | Peak | 31.02 | -2.03 | 28.99 | 54.00 | -25.01 |
| 11180.00 | H | Peak | 18.20 | 16.99 | 35.19 | 74.00 | -38.81 |
| 16770.00 | H | --- | | | | | |
| 22360.00 | H | --- | | | | | |
| 27950.00 | H | --- | | | | | |
| 33540.00 | H | --- | | | | | |
| 39130.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5590 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 183.26 | S | Peak | 40.07 | -14.89 | 25.18 | 43.50 | -18.32 |
| 288.02 | S | Peak | 43.46 | -12.86 | 30.60 | 46.00 | -15.40 |
| 366.59 | S | Peak | 42.19 | -11.48 | 30.71 | 46.00 | -15.29 |
| 577.08 | S | Peak | 37.80 | -8.05 | 29.75 | 46.00 | -16.25 |
| 799.21 | S | Peak | 37.62 | -4.21 | 33.41 | 46.00 | -12.59 |
| 966.05 | S | Peak | 32.34 | -2.03 | 30.31 | 54.00 | -23.69 |
| 11180.00 | H | Peak | 17.68 | 16.75 | 34.43 | 74.00 | -39.57 |
| 16770.00 | H | --- | | | | | |
| 22360.00 | H | --- | | | | | |
| 27950.00 | H | --- | | | | | |
| 33540.00 | H | --- | | | | | |
| 39130.00 | H | --- | | | | | |

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|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5670 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 46.49 | S | Peak | 48.20 | -13.80 | 34.40 | 40.00 | -5.60 |
| 95.96 | S | Peak | 46.50 | -17.13 | 29.37 | 43.50 | -14.13 |
| 366.59 | S | Peak | 38.85 | -11.48 | 27.37 | 46.00 | -18.63 |
| 577.08 | S | Peak | 37.22 | -8.05 | 29.17 | 46.00 | -16.83 |
| 696.39 | S | Peak | 34.05 | -5.79 | 28.26 | 46.00 | -17.74 |
| 966.05 | S | Peak | 31.91 | -2.03 | 29.88 | 54.00 | -24.12 |
| 11340.00 | H | Peak | 18.25 | 17.24 | 35.49 | 74.00 | -38.51 |
| 17010.00 | H | --- | | | | | |
| 22680.00 | H | --- | | | | | |
| 28350.00 | H | --- | | | | | |
| 34020.00 | H | --- | | | | | |
| 39690.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-10-27 |
| Fundamental Frequency | :5670 MHz | Temp./Humi. | :25.1deg_C/64RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :H Plan | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 240.49 | S | Peak | 42.27 | -14.19 | 28.08 | 46.00 | -17.92 |
| 288.02 | S | Peak | 43.22 | -12.86 | 30.36 | 46.00 | -15.64 |
| 366.59 | S | Peak | 42.72 | -11.48 | 31.24 | 46.00 | -14.76 |
| 577.08 | S | Peak | 37.33 | -8.05 | 29.28 | 46.00 | -16.72 |
| 696.39 | S | Peak | 35.32 | -5.79 | 29.53 | 46.00 | -16.47 |
| 934.04 | S | Peak | 31.64 | -2.25 | 29.39 | 46.00 | -16.61 |
| 11340.00 | H | Peak | 17.88 | 16.98 | 34.86 | 74.00 | -39.14 |
| 17010.00 | H | --- | | | | | |
| 22680.00 | H | --- | | | | | |
| 28350.00 | H | --- | | | | | |
| 34020.00 | H | --- | | | | | |
| 39690.00 | H | --- | | | | | |

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Operation Band :802.11n40M (MIMO) Test Date :2012-11-09
Fundamental Frequency :5510 MHz Temp./Humi. :25.1deg_C/64RH
Operation Mode :TX BANDEDGE Engineer :Marcus
EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5460.00 | E | Average | 41.16 | 7.77 | 48.93 | 54.00 | -5.07 |
| 5460.00 | E | Peak | 52.70 | 7.77 | 60.47 | 74.00 | -13.53 |

Operation Band :802.11n40M (MIMO) Test Date :2012-11-09
Fundamental Frequency :5510 MHz Temp./Humi. :25.1deg_C/64RH
Operation Mode :TX BANDEDGE Engineer :Marcus
EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5460.00 | E | Average | 39.82 | 8.07 | 47.89 | 54.00 | -6.11 |
| 5460.00 | E | Peak | 52.16 | 8.07 | 60.23 | 74.00 | -13.77 |

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13. TRANSMISSION IN THE ABSENCE OF DATA

13.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

According to RSS-210 A9.4(4)

The device shall automatically discontinue transmission in case of absence of information to transmit, or operational failure. A description on how this is done shall accompany the application for equipment certification. Note that this is not intended to prohibit transmission of control or signaling information or the use of repetitive codes where required by the technology.

13.2 Result:

No non-compliance noted:

Refer to the theory of operation.

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14. FREQUENCY STABILITY

14.1 Standard Applicable

According to §15.407 (g) Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

According to A9.5

(5) The applicant shall ensure frequency stability by showing that an emission is maintained within the band of operation under all normal operating conditions as specified in the user's manual.

14.2 Result:

Refer to next page for plots.

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| | | | |
|----------------|----------|-----------|-----------|
| Operation Mode | 802.11 a | Test Date | 2012,12,2 |
| Temperature | :25 | Test By | Marcus |
| Humidity | :62 % | | |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | Frequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|-----------------|
| 25 °C | AC 110V | 36 | 5180.0000 | 5,179.965000 | 0.0350 |
| | | 44 | 5220.0000 | 5,219.970000 | 0.0300 |
| | | 48 | 5240.0000 | 5,239.980000 | 0.0200 |
| | | 52 | 5260.0000 | 5,259.985000 | 0.0150 |
| | | 60 | 5300.0000 | 5,299.970000 | 0.0300 |
| | | 64 | 5320.0000 | 5,319.980000 | 0.0200 |
| | | 100 | 5500.0000 | 5,499.980000 | 0.0200 |
| | | 116 | 5580.0000 | 5,579.980000 | 0.0200 |
| | | 140 | 5700.0000 | 5,699.985000 | 0.0150 |
| 55 °C | AC 110V | 36 | 5180.0000 | 5,179.965000 | 0.0350 |
| | | 44 | 5220.0000 | 5,219.975000 | 0.0250 |
| | | 48 | 5240.0000 | 5,239.985000 | 0.0150 |
| | | 52 | 5260.0000 | 5,259.985000 | 0.0150 |
| | | 60 | 5300.0000 | 5,299.970000 | 0.0300 |
| | | 64 | 5320.0000 | 5,319.980000 | 0.0200 |
| | | 100 | 5500.0000 | 5,499.975000 | 0.0250 |
| | | 116 | 5580.0000 | 5,579.980000 | 0.0200 |
| | | 140 | 5700.0000 | 5,699.985000 | 0.0150 |
| -20 °C | AC 110V | 36 | 5180.0000 | 5,179.970000 | 0.0300 |
| | | 44 | 5220.0000 | 5,219.975000 | 0.0250 |
| | | 48 | 5240.0000 | 5,239.985000 | 0.0150 |
| | | 52 | 5260.0000 | 5,259.985000 | 0.0150 |
| | | 60 | 5300.0000 | 5,299.975000 | 0.0250 |
| | | 64 | 5320.0000 | 5,319.985000 | 0.0150 |
| | | 100 | 5500.0000 | 5,499.980000 | 0.0200 |
| | | 116 | 5580.0000 | 5,579.985000 | 0.0150 |
| | | 140 | 5700.0000 | 5,699.980000 | 0.0200 |

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| | | | |
|----------------|--------------|-----------|-----------|
| Operation Mode | 802.11n_HT20 | Test Date | 2012,12,3 |
| Temperature | :25 | Test By | Marcus |
| Humidity | :62 % | | |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | Frequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|-----------------|
| 25 °C | AC 110V | 36 | 5180.0000 | 5,180.000000 | 0.0000 |
| | | 44 | 5220.0000 | 5,220.015000 | -0.0150 |
| | | 48 | 5240.0000 | 5,240.010000 | -0.0100 |
| | | 52 | 5260.0000 | 5,260.015000 | -0.0150 |
| | | 60 | 5300.0000 | 5,300.020000 | -0.0200 |
| | | 64 | 5320.0000 | 5,320.030000 | -0.0300 |
| | | 100 | 5500.0000 | 5,500.035000 | -0.0350 |
| | | 116 | 5580.0000 | 5,580.035000 | -0.0350 |
| | | 140 | 5700.0000 | 5,700.035000 | -0.0350 |
| 55 °C | AC 110V | 36 | 5180.0000 | 5,180.000000 | 0.0000 |
| | | 44 | 5220.0000 | 5,220.015000 | -0.0150 |
| | | 48 | 5240.0000 | 5,240.010000 | -0.0100 |
| | | 52 | 5260.0000 | 5,260.015000 | -0.0150 |
| | | 60 | 5300.0000 | 5,300.020000 | -0.0200 |
| | | 64 | 5320.0000 | 5,320.030000 | -0.0300 |
| | | 100 | 5500.0000 | 5,500.030000 | -0.0300 |
| | | 116 | 5580.0000 | 5,580.035000 | -0.0350 |
| | | 140 | 5700.0000 | 5,700.035000 | -0.0350 |
| -20 °C | AC 110V | 36 | 5180.0000 | 5,180.000000 | 0.0000 |
| | | 44 | 5220.0000 | 5,220.010000 | -0.0100 |
| | | 48 | 5240.0000 | 5,240.010000 | -0.0100 |
| | | 52 | 5260.0000 | 5,260.015000 | -0.0150 |
| | | 60 | 5300.0000 | 5,300.020000 | -0.0200 |
| | | 64 | 5320.0000 | 5,320.030000 | -0.0300 |
| | | 100 | 5500.0000 | 5,500.035000 | -0.0350 |
| | | 116 | 5580.0000 | 5,580.030000 | -0.0300 |
| | | 140 | 5700.0000 | 5,700.035000 | -0.0350 |

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| | | | |
|----------------|---------------|-----------|-----------|
| Operation Mode | 802.11 n_HT40 | Test Date | 2012,12,3 |
| Temperature | :25 | Test By | Marcus |
| Humidity | :62 % | | |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | Frequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|-----------------|
| 25 °C | AC 110V | 38 | 5190.0000 | 5,190.030000 | -0.0300 |
| | | 46 | 5230.0000 | 5,230.030000 | -0.0300 |
| | | 54 | 5270.0000 | 5,270.030000 | -0.0300 |
| | | 62 | 5310.0000 | 5,310.030000 | -0.0300 |
| | | 102 | 5510.0000 | 5,510.030000 | -0.0300 |
| | | 118 | 5590.0000 | 5,590.030000 | -0.0300 |
| | | 134 | 5670.0000 | 5,670.030000 | -0.0300 |
| 55 °C | AC 110V | 38 | 5190.0000 | 5,190.030000 | -0.0300 |
| | | 46 | 5230.0000 | 5,230.030000 | -0.0300 |
| | | 54 | 5270.0000 | 5,270.030000 | -0.0300 |
| | | 62 | 5310.0000 | 5,310.035000 | -0.0350 |
| | | 102 | 5510.0000 | 5,510.030000 | -0.0300 |
| | | 118 | 5590.0000 | 5,590.030000 | -0.0300 |
| | | 134 | 5670.0000 | 5,670.035000 | -0.0350 |
| -20 °C | AC 110V | 38 | 5190.0000 | 5,190.035000 | -0.0350 |
| | | 46 | 5230.0000 | 5,230.030000 | -0.0300 |
| | | 54 | 5270.0000 | 5,270.030000 | -0.0300 |
| | | 62 | 5310.0000 | 5,310.030000 | -0.0300 |
| | | 102 | 5510.0000 | 5,510.035000 | -0.0350 |
| | | 118 | 5590.0000 | 5,590.030000 | -0.0300 |
| | | 134 | 5670.0000 | 5,670.030000 | -0.0300 |

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15. ANTENNA REQUIREMENT

15.1 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.

15.2 Antenna Connected Construction

The directional gains of antenna used for transmitting is 5.0dBi and the antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna specifications for details.

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16. TPC and DFS MEASUREMENT

16.1 TPC: Standard Applicable

According to §15.407(h)(1), Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

According to RSS 210 A9.2(3), The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever power is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

16.1.1. Result: N/A, The output power is less than 500mW.

16.2 DFS: Standard Applicable

According to §15.407(h)(2), Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection.

According to RSS 210 A9.3), Note: For the band 5600-5650 MHz, no operation is permitted.

Until further notice, devices subject to this annex shall not be capable of transmitting in the band 5600-5650 MHz. This restriction is for the protection of Environment Canada weather radars operating in this band.

Devices operating in the bands 5250-5350 MHz, 5470-5600 MHz and 5650-5725 MHz band shall comply with the following.

(a) Devices shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems (see Note below). The minimum DFS radar signal detection threshold is -62 dBm for devices with a maximum e.i.r.p. less than 200 mW, and -64 dBm for devices with a maximum e.i.r.p. of 200 mW to 1 W. The detection threshold power is the received power, averaged over a 1-microsecond reference to a 0 dBi antenna. The DFS process shall provide a uniform spreading of the load over all the available channels.

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Note: Test procedures for demonstrating compliance with the DFS radar detection requirements set out in this section are being evaluated by Industry Canada. As an interim measure, the Department will, until further notice, accept utilization of the DFS test procedures published by the U.S. Federal Communications Commission (FCC)3 to demonstrate compliance with the requirements of this section.

(b) Operational requirements: the requirement for channel availability check time applies in the master operational mode. The requirement for channel move time applies in both the master and slave operational modes.

(i) In-service monitoring: an LE-LAN device should be able to monitor the operating channel to check that a co-channel radar has not moved or started operation within range of the LE-LAN device. During in-service monitoring, the LE-LAN radar detection function continuously searches for radar signals between normal LE-LAN transmissions.

(ii) Channel availability check time: the device shall check if there is a radar system already operating on the channel before it initiates a transmission on a channel and when it moves to a channel. The device may start using the channel if no radar signal with a power level greater than the interference threshold value specified in A9.3 (a) above is detected within 60 seconds.

(iii) Channel move time: after a radar's signal is detected, the device shall cease all transmissions on the operating channel within 10 seconds. Transmission during this period shall consist of normal traffic for a maximum of 200 ms after detection of the radar signal. Intermittent management and control signals may also be sent during the remaining time to facilitate vacating the operating channel.

(iv) Channel closing time: the maximum channel closing time is 260 ms.

(v) Non-occupancy period: a channel that has been flagged as containing a radar signal, either by a channel availability check or in-service monitoring, is subject to a 30-minute non-occupancy period where the channel cannot be used by the LE-LAN device. The non-occupancy period starts from the time that the radar signal is detected.

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16.2.1.Limit

Table 1:Applicability of DFS requirements prior to use of a channel

| Requirement | Operational Mode | | |
|---------------------------------|------------------|---------------------------------|------------------------------|
| | Master | Client(without radar detection) | Client(with radar detection) |
| Non-occupancy Period | Yes | Yes | Yes |
| DFS Detection Threshold | Yes | Not required | Yes |
| Channel Availability Check Time | Yes | Not required | Not required |
| Uniform Spreading | Yes | Not required | Not required |

Table 2:Applicability of DFS requirements during normal operation

| Requirement | Operational Mode | | |
|-----------------------------------|------------------|---------------------------------|------------------------------|
| | Master | Client(without radar detection) | Client(with radar detection) |
| Channel Closing Transmission time | Yes | Yes | Yes |
| Channel Move time | Yes | Yes | Yes |

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Table 3: Interference Threshold values, Master or Client incorporating In-Service Monitoring

| Maximum Transmit Power | Value (see note) |
|--|---------------------|
| ≥ 200 milliwatt | -64 dBm |
| < 200 milliwatt | -62 dBm |
| <p>Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna</p> <p>Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.</p> | |

Table 4: DFS Response requirement values

| Parameter | Value |
|--|---|
| <i>Non-occupancy period</i> | Minimum 30 minutes |
| <i>Channel Availability Check Time</i> | 60 seconds |
| <i>Channel Move Time</i> | 10 seconds See Note 1. |
| <i>Channel Closing Transmission Time</i> | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2. |
| <i>U-NII Detection Bandwidth</i> | Minimum 80% of the 99% power bandwidth See Note 3. |
| <p>Note 1: The instant that the <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> begins is as follows:</p> <ul style="list-style-type: none"> For the Short pulse radar Test Signals this instant is the end of the <i>Burst</i>. For the Frequency Hopping radar Test Signal, this instant is the end of the last radar <i>Burst</i> generated. For the Long Pulse radar Test Signal this instant is the end of the 12 second period defining the radar transmission. <p>Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate <i>Channel</i> changes (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.</p> <p>Note 3: During the <i>U-NII Detection Bandwidth</i> detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.</p> | |

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Table 5: Radar Test Waveforms

Short Pulse Radar

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Number of Pulses | Minimum Percentage of Successful Detection | Minimum Trials |
|-----------------------------|--------------------|------------|------------------|--|----------------|
| 1 | 1 | 1428 | 18 | 60% | 30 |
| 2 | 1-5 | 150-230 | 23-29 | 60% | 30 |
| 3 | 6-10 | 200-500 | 16-18 | 60% | 30 |
| 4 | 11-20 | 200-500 | 12-16 | 60% | 30 |
| Aggregate (Radar Types 1-4) | | | | 80% | 120 |

Long Pulse Radar

| Radar Type | Pulse Width (μsec) | Chirp Width (MHz) | PRI (μsec) | Number of Pulses per Burst | Number of Bursts | Minimum Percentage of Successful Detection | Minimum Trials |
|------------|--------------------|-------------------|------------|----------------------------|------------------|--|----------------|
| 5 | 50-100 | 5-20 | 1000-2000 | 1-3 | 8-20 | 80% | 30 |

Frequency Hopping Radar

| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Minimum Percentage of Successful Detection | Minimum Trials |
|------------|--------------------|------------|----------------|--------------------|--------------------------------|--|----------------|
| 6 | 1 | 333 | 9 | .333 | 300 | 70% | 30 |

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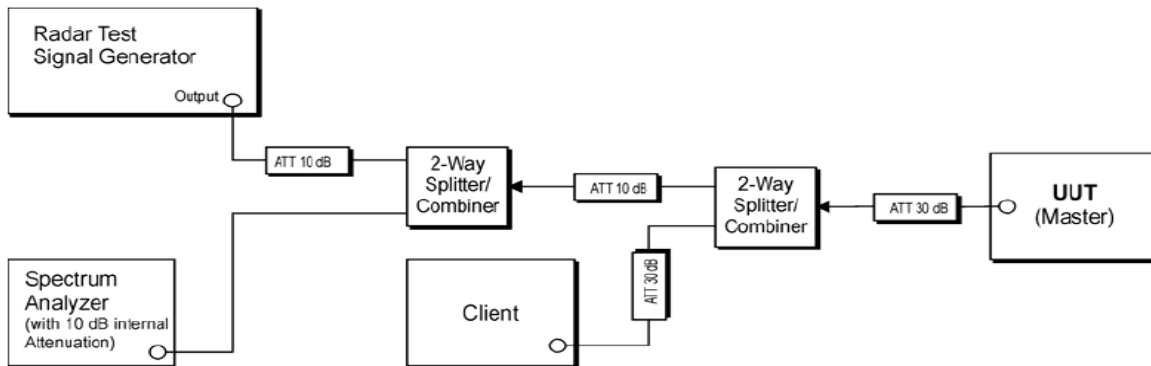
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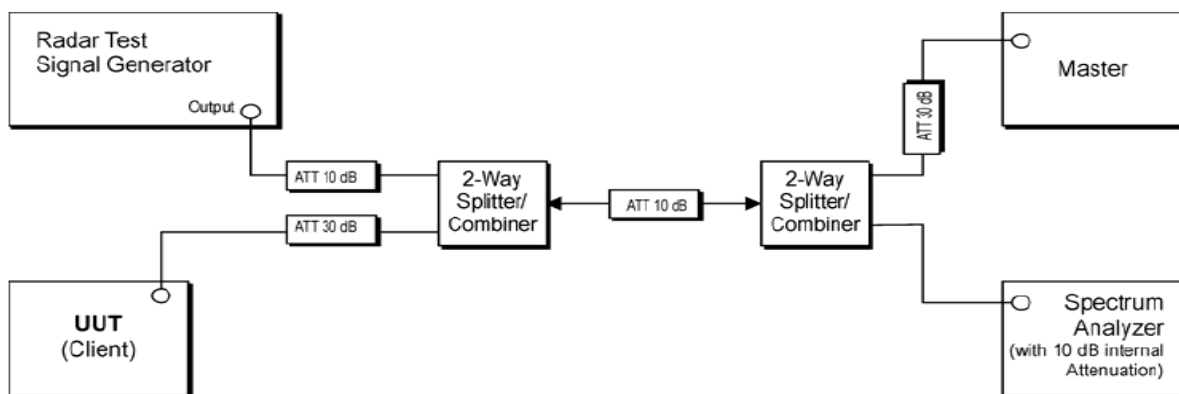
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16.2.2. Test Setup

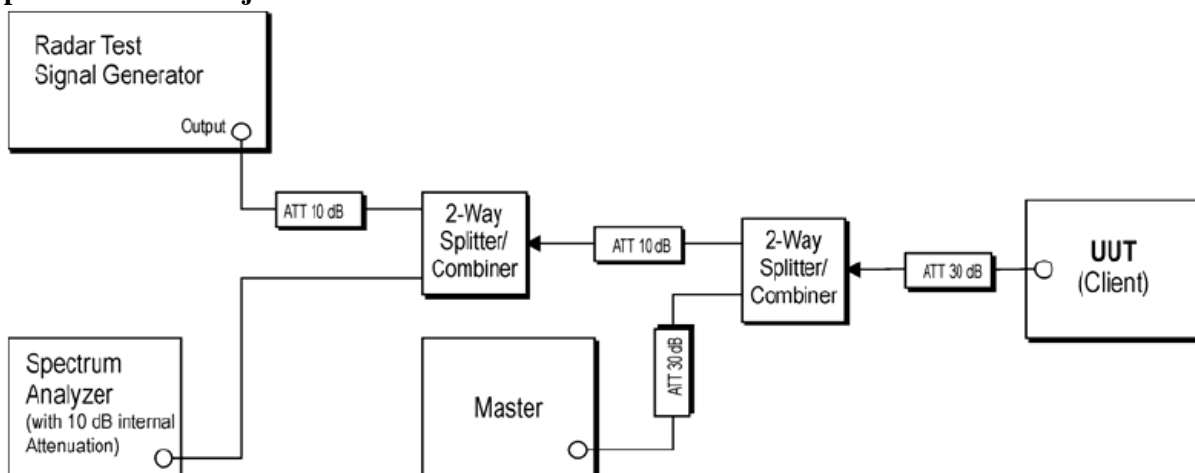
Setup for Master with injection at the Master



Setup for Client with injection at the Master



Setup for Client with injection at the Client



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16.2.3. Test Equipment Used:

Refer to section 7.3 for details.

16.2.4. Description of EUT :

EUT operates over the 5250-5350MHz and 5470-5725MHz ranges and EUT is a slave device (client equipment) w/o radar detection and DFS capability. EUT has a gain of 5dBi in the 5GHz Band.

The EUT utilizes the 802.11a architecture, with a nominal channel bandwidth of 20MHz
WLAN traffic is generated by streaming the mpeg file from the master to slave in full monitor video mode using the media player.

The rated output power of the master unit is >23dBm(EIRP).therefore the required interference threshold level is -64dBm.after correction for antenna gain and procedural adjustments, the required conducted threshold at the antenna port is $-64+6=-58$, and the master device as employed for the applicable DFS test is CISCO router whose FCC ID= LDK102061

16.2.5. Test results

Refer to next page for plots.

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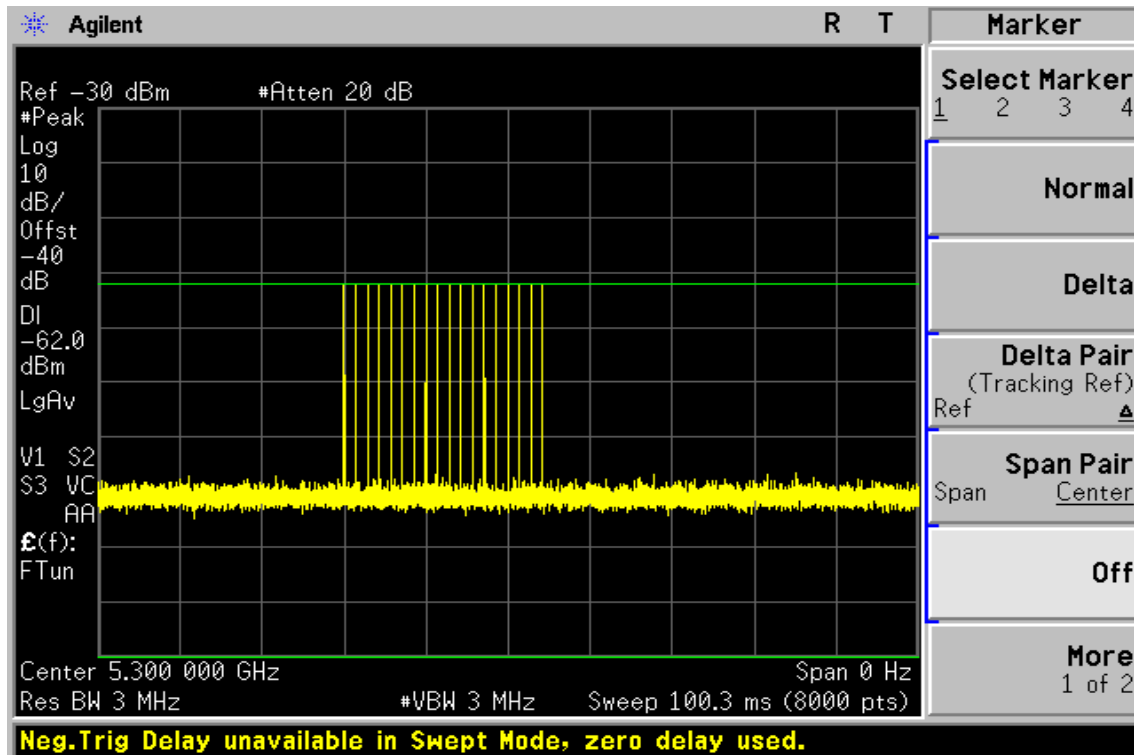
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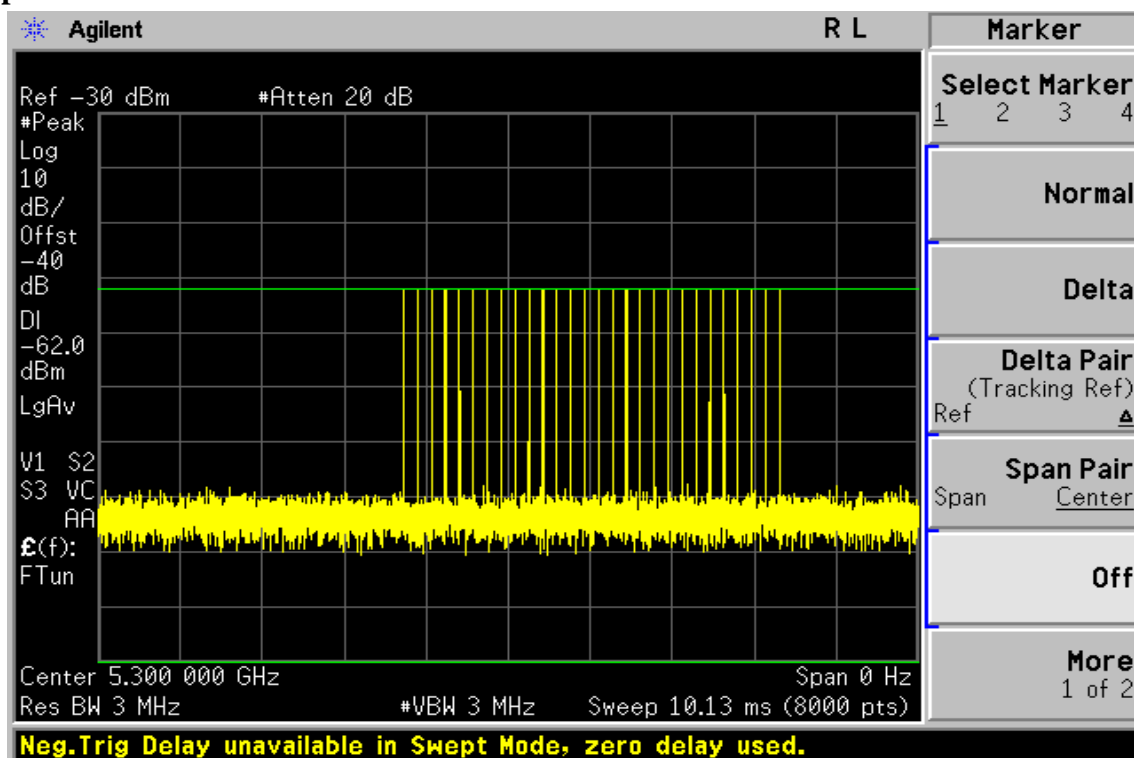
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Calibration plots for each of the required radar waveforms

Radar type 1



Radar type 2



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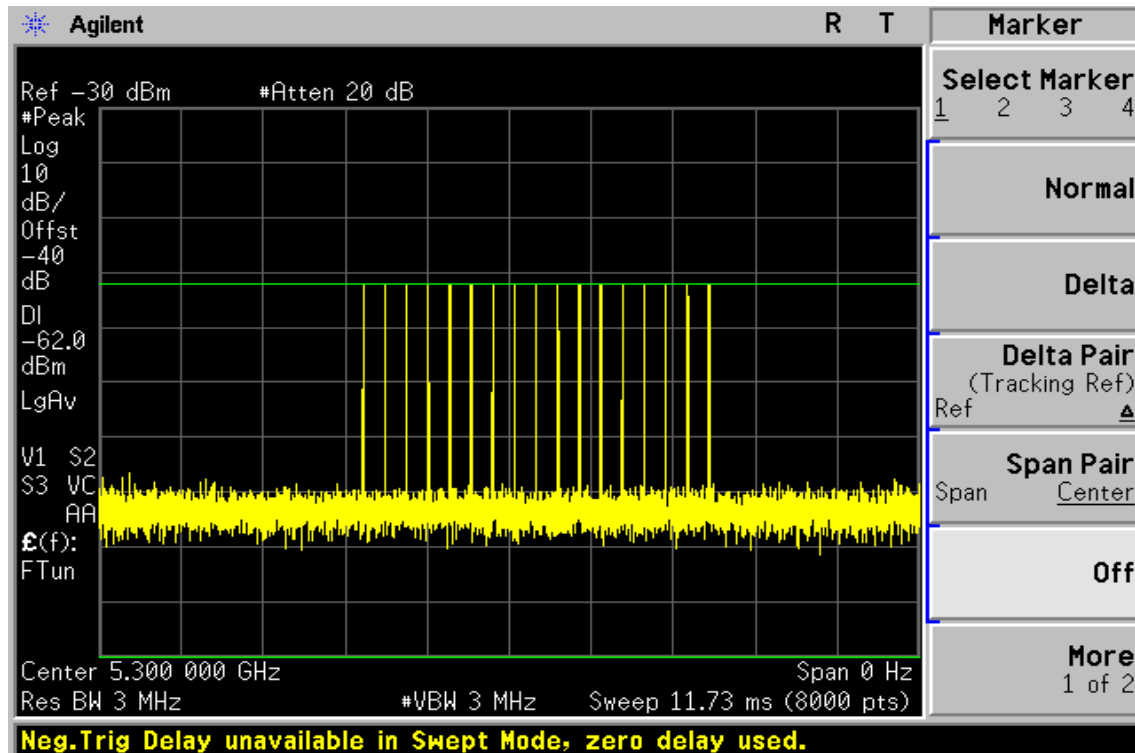
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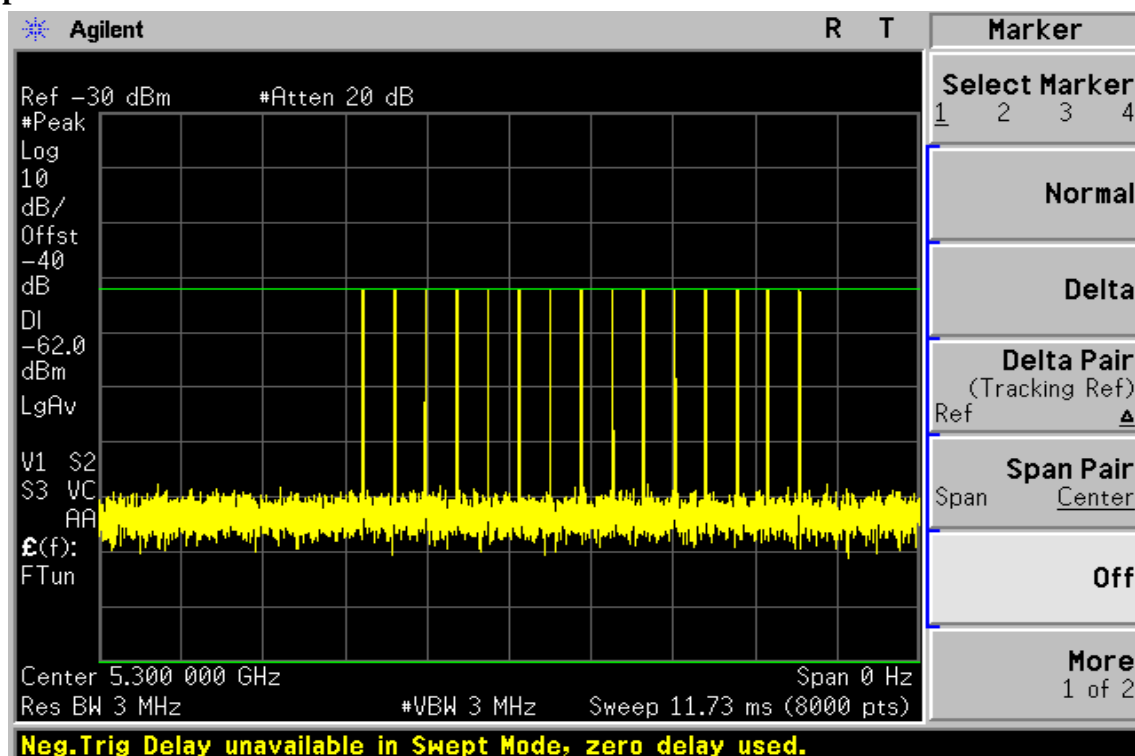
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Radar type 3



Radar type 4



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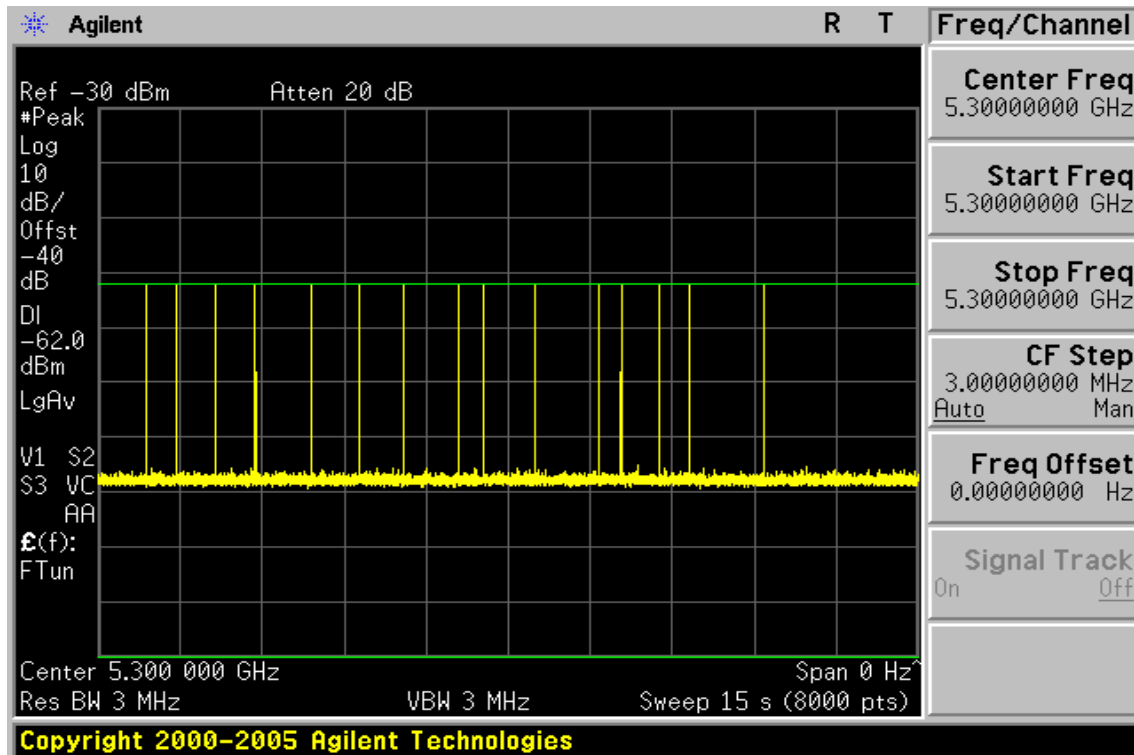
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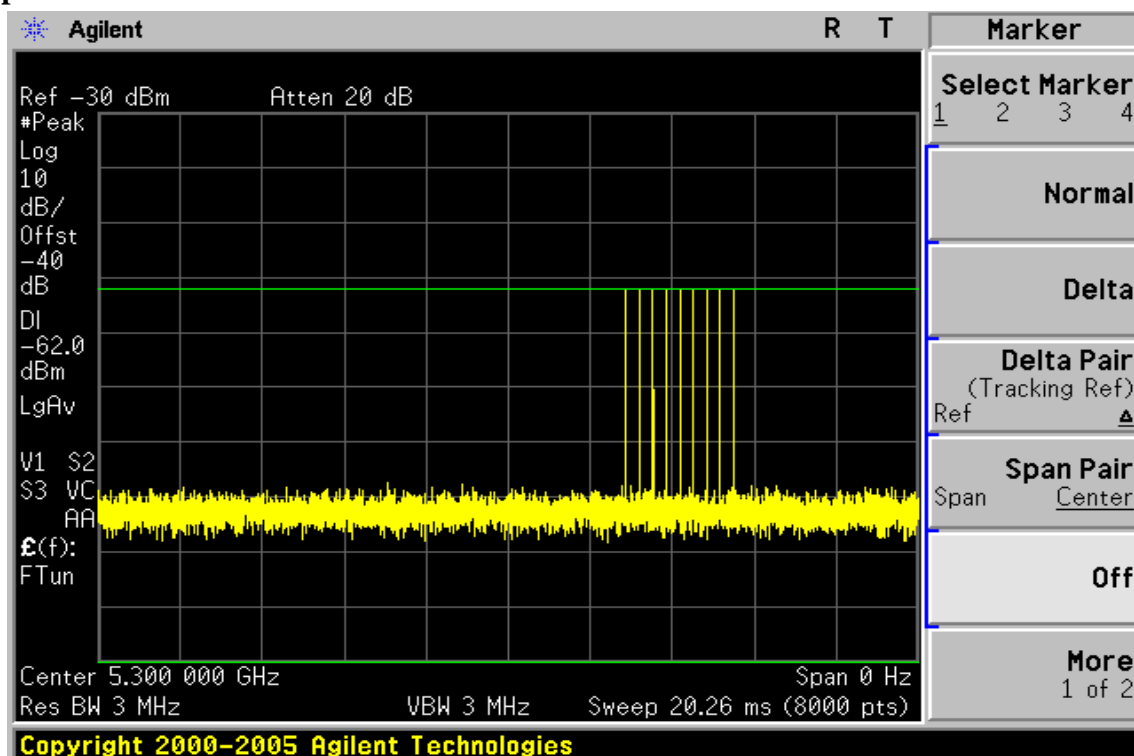
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Radar type 5



Radar type 6



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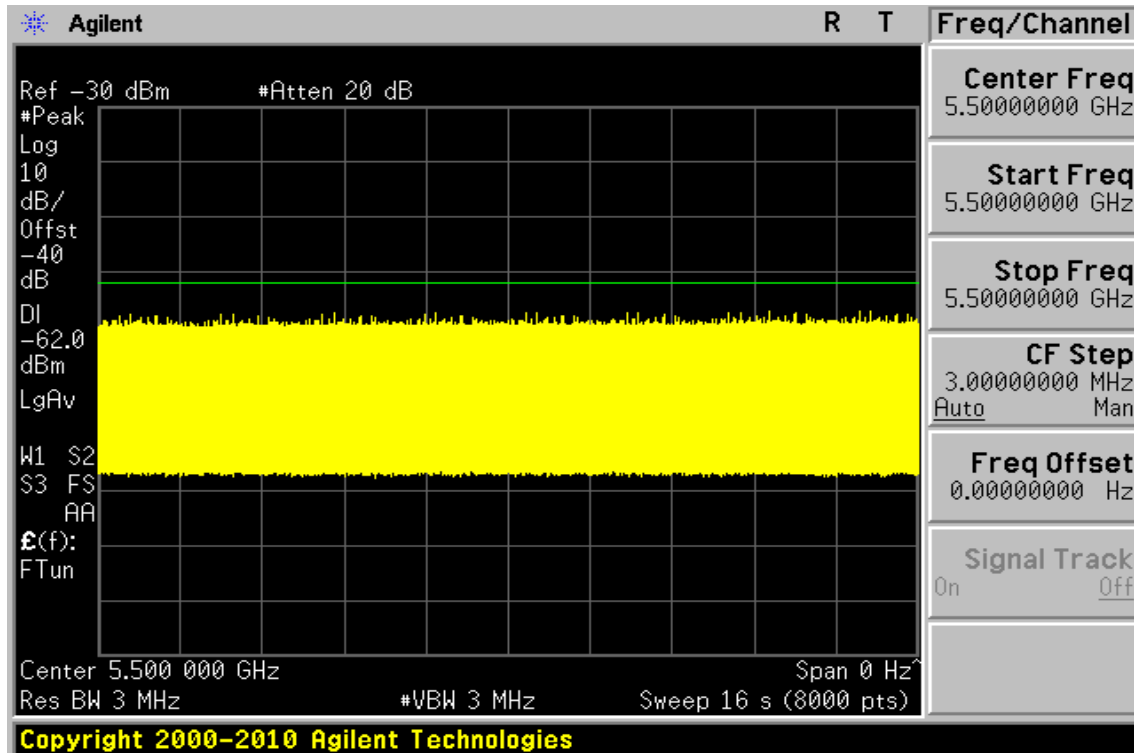
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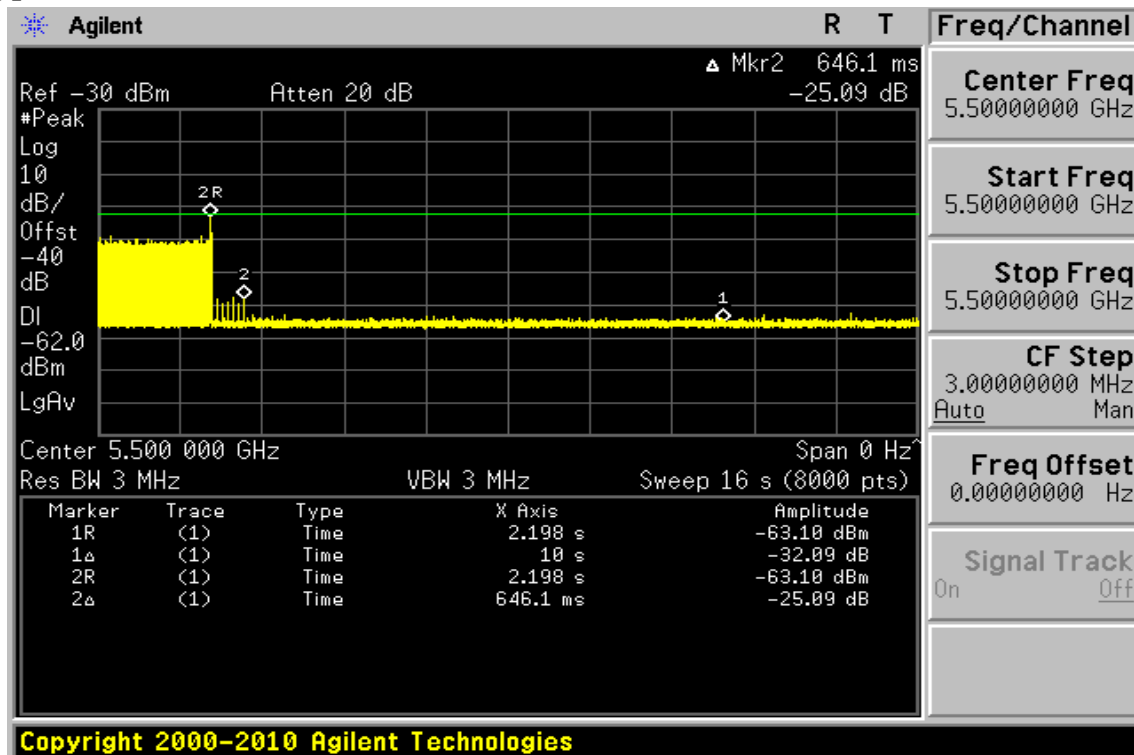
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WLAN traffic



Radar Type 1 Channel Move Time



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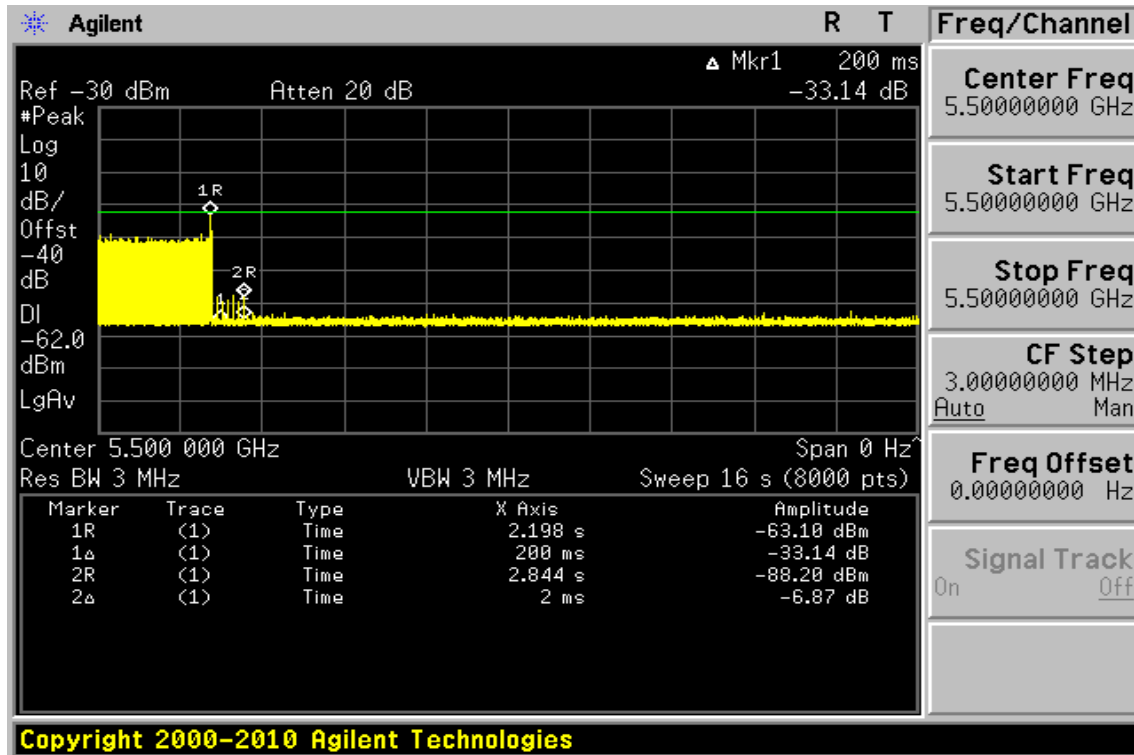
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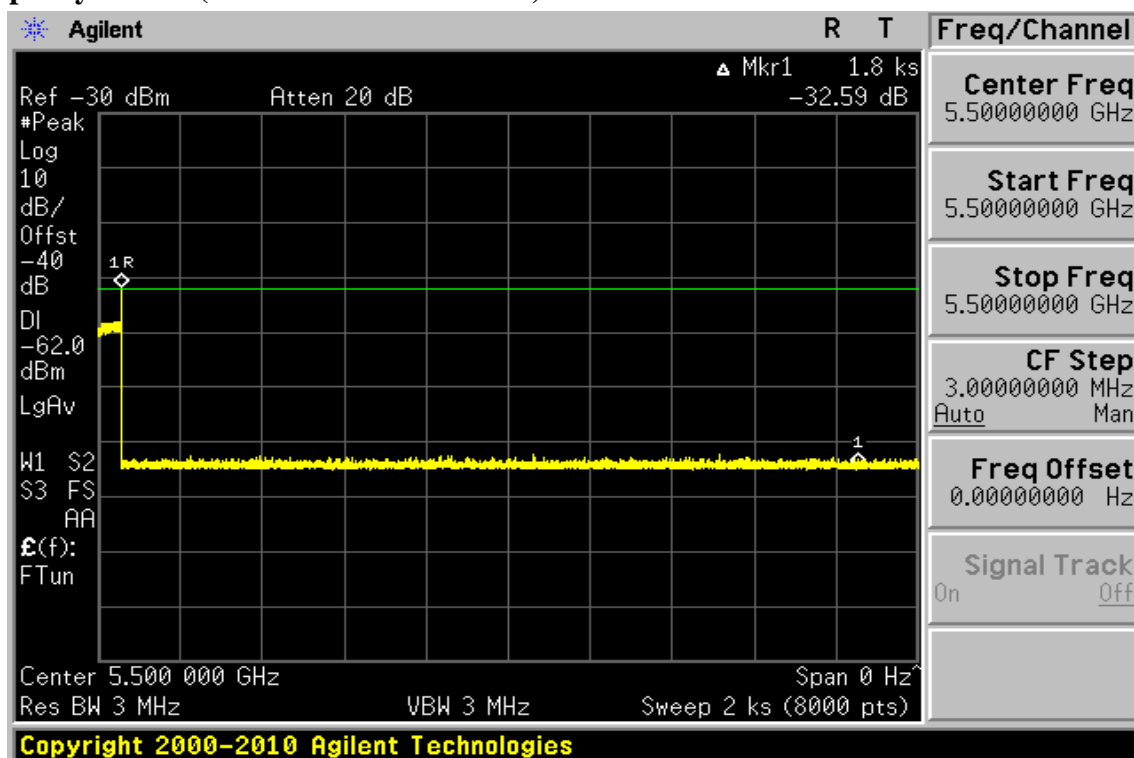
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Radar Type 1 Channel Closing Transmission Time



$$2\text{ms} * 6 = 12\text{ ms}$$

Non-occupancy Period (without radar detection)



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17. MAXIMUM PERMISSIBLE EXPOSURE (MPE)

17.1 Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1093 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm ²) | Averaging Time (minute) |
|---|-------------------------------|-------------------------------|-------------------------------------|-------------------------|
| Limits for General Population/Uncontrolled Exposure | | | | |
| 0.3-1.34 | 614 | 1.63 | *(100) | 30 |
| 1.34-30 | 824/f | 2.19/f | *(180/f ²) | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | / | / | F/1500 | 30 |
| 1500-15000 | / | / | 1.0 | 30 |

F = frequency in MHz

* = Plane-wave equipment power density

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17.2 Maximum Permissible Exposure (MPE) Evaluation

Internal Antenna

802.11a 5150~5250 Power Table

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 5180.00 | 11.31 | 11.31 | 0.01352 | 1 |
| 5220.00 | 11.11 | 11.11 | 0.01291 | 1 |
| 5240.00 | 11.14 | 11.14 | 0.01300 | 1 |

MPE Prediction (802.11a 5150~5250)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

| | | |
|--|-------------|-----------------------|
| Maximum peak output power at antenna input terminal: | 11.31 | (dBm) |
| Maximum peak output power at antenna input terminal: | 13.52072563 | (mW) |
| Duty cycle: | 100 | (%) |
| Maximum Pav : | 13.52072563 | (mW) |
| Antenna gain (typical): | 3.92 | (dBi) |
| Maximum antenna gain: | 2.466039337 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5180 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.0066367 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.00664 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5180MHz.

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802.11a 5250~5350 Power Table

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 5260.00 | 12.65 | 12.65 | 0.01840 | 1 |
| 5300.00 | 12.41 | 12.41 | 0.01742 | 1 |
| 5320.00 | 11.22 | 11.22 | 0.01324 | 1 |

MPE Prediction (802.11a 5250~5350)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

| | | |
|--|-------------|-----------------------|
| Maximum peak output power at antenna input terminal: | 12.65 | (dBm) |
| Maximum peak output power at antenna input terminal: | 18.40772001 | (mW) |
| Duty cycle: | 100 | (%) |
| Maximum Pav : | 18.40772001 | (mW) |
| Antenna gain (typical): | 3.92 | (dBi) |
| Maximum antenna gain: | 2.466039337 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5260 | (MHz) |
| | | |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.0090355 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.00903 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5260MHz.

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802.11a 5470~5725 Power Table

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 5500.00 | 8.78 | 8.78 | 0.00755 | 1 |
| 5580.00 | 9.66 | 9.66 | 0.00925 | 1 |
| 5700.00 | 10.27 | 10.27 | 0.01064 | 1 |

MPE Prediction (802.11a 5470~5725)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

| | | |
|--|-------------|-----------------------|
| Maximum peak output power at antenna input terminal: | 10.27 | (dBm) |
| Maximum peak output power at antenna input terminal: | 10.64143018 | (mW) |
| Duty cycle: | 100 | (%) |
| Maximum Pav : | 10.64143018 | (mW) |
| Antenna gain (typical): | 4.97 | (dBi) |
| Maximum antenna gain: | 3.140508694 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5700 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.0066520 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.00665 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5700MHz.

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802.11n HT20 MIMO operation (CH 0 + CH 1) Power Table

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 5180.00 | 11.37 | 11.37 | 0.01371 | 1 |
| 5220.00 | 11.16 | 11.16 | 0.01306 | 1 |
| 5240.00 | 11.70 | 11.70 | 0.01479 | 1 |

MPE Prediction (802.11n HT20 MIMO operation (CH 0 + CH 1) 5150~5250)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

| | | |
|--|-------------|-----------------------|
| Maximum peak output power at antenna input terminal: | 11.70 | (dBm) |
| Maximum peak output power at antenna input terminal: | 14.79108388 | (mW) |
| Duty cycle: | 100 | (%) |
| Maximum Pav : | 14.79108388 | (mW) |
| Antenna gain (typical): | 6.93 | (dBi) |
| Maximum antenna gain: | 4.93173804 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5240 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.0145195 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.01452 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5240MHz.

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802.11n HT20 MIMO operation (CH 0 + CH 1) Power Table

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 5260.00 | 15.30 | 15.30 | 0.03388 | 1 |
| 5300.00 | 14.93 | 14.93 | 0.03112 | 1 |
| 5320.00 | 15.06 | 15.06 | 0.03206 | 1 |

MPE Prediction (802.11n HT20 MIMO operation (CH 0 + CH 1) 5250~5350)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

| | | |
|--|-------------|-----------------------|
| Maximum peak output power at antenna input terminal: | 15.3 | (dBm) |
| Maximum peak output power at antenna input terminal: | 33.88441561 | (mW) |
| Duty cycle: | 100 | (%) |
| Maximum Pav : | 33.88441561 | (mW) |
| Antenna gain (typical): | 6.93 | (dBi) |
| Maximum antenna gain: | 4.93173804 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5260 | (MHz) |
| | | |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.0332622 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.03326 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5260MHz.

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802.11n HT20 MIMO operation (CH 0 + CH 1) Power Table

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 5500.00 | 12.83 | 12.83 | 0.01919 | 1 |
| 5580.00 | 12.68 | 12.68 | 0.01854 | 1 |
| 5700.00 | 13.06 | 13.06 | 0.02023 | 1 |

MPE Prediction (802.11n HT20 MIMO operation (CH 0 + CH 1) 5470~5725)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

| | | |
|--|-------------|-----------------------|
| Maximum peak output power at antenna input terminal: | 13.06 | (dBm) |
| Maximum peak output power at antenna input terminal: | 20.23019179 | (mW) |
| Duty cycle: | 100 | (%) |
| Maximum Pav : | 20.23019179 | (mW) |
| Antenna gain (typical): | 7.98 | (dBi) |
| Maximum antenna gain: | 6.280583588 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5700 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.0252901 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.02529 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5700MHz.

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802.11n HT40 MIMO operation (CH 0 + CH 1) Power Table

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 5190.00 | 11.53 | 11.53 | 0.01422 | 1 |
| 5230.00 | 11.56 | 11.56 | 0.01432 | 1 |

MPE Prediction (802.11n HT40 MIMO operation (CH 0 + CH 1) 5150~5250)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

| | | |
|--|--------------|-----------------------|
| Maximum peak output power at antenna input terminal: | 11.56 | (dBm) |
| Maximum peak output power at antenna input terminal: | 14.32187899 | (mW) |
| Duty cycle: | 100 | (%) |
| Maximum Pav : | 14.32187899 | (mW) |
| Antenna gain (typical): | 6.93 | (dBi) |
| Maximum antenna gain: | 4.93173804 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5230 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.0140589 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.01429 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5230MHz.

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802.11n HT40 MIMO operation (CH 0 + CH 1) Power Table

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 5270.00 | 13.94 | 15.30 | 0.02477 | 1 |
| 5310.00 | 13.69 | 14.93 | 0.02339 | 1 |

MPE Prediction (802.11n HT40 MIMO operation (CH 0 + CH 1) 5250~5350)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

| | | |
|--|--------------|-----------------------|
| Maximum peak output power at antenna input terminal: | 13.94 | (dBm) |
| Maximum peak output power at antenna input terminal: | 24.77422058 | (mW) |
| Duty cycle: | 100 | (%) |
| Maximum Pav : | 24.77422058 | (mW) |
| Antenna gain (typical): | 6.93 | (dBi) |
| Maximum antenna gain: | 4.93173804 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5270 | (MHz) |
| | | |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.0243193 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.02432 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5270MHz.

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802.11n HT40 MIMO operation (CH 0 + CH 1) Power Table

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 5510.00 | 10.99 | 10.99 | 0.01256 | 1 |
| 5590.00 | 11.50 | 11.50 | 0.01413 | 1 |
| 5670.00 | 11.78 | 11.78 | 0.01507 | 1 |

MPE Prediction (802.11n HT40 MIMO operation (CH 0 + CH 1) 5470~5725)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

| | | |
|--|-------------|-----------------------|
| Maximum peak output power at antenna input terminal: | 11.78 | (dBm) |
| Maximum peak output power at antenna input terminal: | 15.06607066 | (mW) |
| Duty cycle: | 100 | (%) |
| Maximum Pav : | 15.06607066 | (mW) |
| Antenna gain (typical): | 7.98 | (dBi) |
| Maximum antenna gain: | 6.280583588 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5670 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.0188343 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.01883 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5670MHz.

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External Antenna

802.11a 5150~5250 Power Table

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 5180.00 | 11.31 | 11.31 | 0.01352 | 1 |
| 5220.00 | 11.11 | 11.11 | 0.01291 | 1 |
| 5240.00 | 11.14 | 11.14 | 0.01300 | 1 |

MPE Prediction (802.11a 5150~5250)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

| | | |
|--|--------------|-----------------------|
| Maximum peak output power at antenna input terminal: | 11.31 | (dBm) |
| Maximum peak output power at antenna input terminal: | 13.52072563 | (mW) |
| Duty cycle: | 100 | (%) |
| Maximum Pav : | 13.52072563 | (mW) |
| Antenna gain (typical): | 3.88 | (dBi) |
| Maximum antenna gain: | 2.443430553 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5180 | (MHz) |
| | | |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.0065758 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.00658mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5180MHz.

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802.11a 5250~5350 Power Table

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 5260.00 | 12.65 | 12.65 | 0.01840 | 1 |
| 5300.00 | 12.41 | 12.41 | 0.01742 | 1 |
| 5320.00 | 11.22 | 11.22 | 0.01324 | 1 |

MPE Prediction (802.11a 5250~5350)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

| | | |
|--|--------------|-----------------------|
| Maximum peak output power at antenna input terminal: | 12.65 | (dBm) |
| Maximum peak output power at antenna input terminal: | 18.40772001 | (mW) |
| Duty cycle: | 100 | (%) |
| Maximum Pav : | 18.40772001 | (mW) |
| Antenna gain (typical): | 3.88 | (dBi) |
| Maximum antenna gain: | 2.443430553 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5260 | (MHz) |
| | | |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.0089526 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.00895mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5260MHz.

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802.11a 5470~5725 Power Table

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 5500.00 | 8.78 | 8.78 | 0.00755 | 1 |
| 5580.00 | 9.66 | 9.66 | 0.00925 | 1 |
| 5700.00 | 10.27 | 10.27 | 0.01064 | 1 |

MPE Prediction (802.11a 5470~5725)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

| | | |
|--|-------------|-----------------------|
| Maximum peak output power at antenna input terminal: | 10.27 | (dBm) |
| Maximum peak output power at antenna input terminal: | 10.64143018 | (mW) |
| Duty cycle: | 100 | (%) |
| Maximum Pav : | 10.64143018 | (mW) |
| Antenna gain (typical): | 4.85 | (dBi) |
| Maximum antenna gain: | 3.054921113 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5700 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.0064707 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.00647mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5700MHz.

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802.11n HT20 MIMO operation (CH 0 + CH 1) Power Table

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 5180.00 | 11.37 | 11.37 | 0.01371 | 1 |
| 5220.00 | 11.16 | 11.16 | 0.01306 | 1 |
| 5240.00 | 11.70 | 11.70 | 0.01479 | 1 |

MPE Prediction (802.11n HT20 MIMO operation (CH 0 + CH 1) 5150~5250)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

| | | |
|--|-------------|-----------------------|
| Maximum peak output power at antenna input terminal: | 11.70 | (dBm) |
| Maximum peak output power at antenna input terminal: | 14.79108388 | (mW) |
| Duty cycle: | 100 | (%) |
| Maximum Pav : | 14.79108388 | (mW) |
| Antenna gain (typical): | 6.89 | (dBi) |
| Maximum antenna gain: | 4.886523593 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5240 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.0143863 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.01439 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5240MHz.

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802.11n HT20 MIMO operation (CH 0 + CH 1) Power Table

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 5260.00 | 15.30 | 15.30 | 0.03388 | 1 |
| 5300.00 | 14.93 | 14.93 | 0.03112 | 1 |
| 5320.00 | 15.06 | 15.06 | 0.03206 | 1 |

MPE Prediction (802.11n HT20 MIMO operation (CH 0 + CH 1) 5250~5350)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

| | | |
|--|-------------|-----------------------|
| Maximum peak output power at antenna input terminal: | 15.3 | (dBm) |
| Maximum peak output power at antenna input terminal: | 33.88441561 | (mW) |
| Duty cycle: | 100 | (%) |
| Maximum Pav : | 33.88441561 | (mW) |
| Antenna gain (typical): | 6.89 | (dBi) |
| Maximum antenna gain: | 4.886523593 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5260 | (MHz) |
| | | |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.0329572 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.03296 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5260MHz.

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802.11n HT20 MIMO operation (CH 0 + CH 1) Power Table

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 5500.00 | 12.83 | 12.83 | 0.01919 | 1 |
| 5580.00 | 12.68 | 12.68 | 0.01854 | 1 |
| 5700.00 | 13.06 | 13.06 | 0.02023 | 1 |

MPE Prediction (802.11n HT20 MIMO operation (CH 0 + CH 1) 5470~5725)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

| | | |
|--|-------------|-----------------------|
| Maximum peak output power at antenna input terminal: | 13.06 | (dBm) |
| Maximum peak output power at antenna input terminal: | 20.23019179 | (mW) |
| Duty cycle: | 100 | (%) |
| Maximum Pav : | 20.23019179 | (mW) |
| Antenna gain (typical): | 7.86 | (dBi) |
| Maximum antenna gain: | 6.109420249 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5700 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.0246009 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.02460 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5700MHz.

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802.11n HT40 MIMO operation (CH 0 + CH 1) Power Table

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 5190.00 | 11.53 | 11.53 | 0.01422 | 1 |
| 5230.00 | 11.56 | 11.56 | 0.01432 | 1 |

MPE Prediction (802.11n HT40 MIMO operation (CH 0 + CH 1) 5150~5250)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

| | | |
|--|--------------|-----------------------|
| Maximum peak output power at antenna input terminal: | 11.56 | (dBm) |
| Maximum peak output power at antenna input terminal: | 14.32187899 | (mW) |
| Duty cycle: | 100 | (%) |
| Maximum Pav : | 14.32187899 | (mW) |
| Antenna gain (typical): | 6.89 | (dBi) |
| Maximum antenna gain: | 4.886523593 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5230 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.0139300 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.01393 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5230MHz.

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802.11n HT40 MIMO operation (CH 0 + CH 1) Power Table

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 5270.00 | 13.94 | 15.30 | 0.02477 | 1 |
| 5310.00 | 13.69 | 14.93 | 0.02339 | 1 |

MPE Prediction (802.11n HT40 MIMO operation (CH 0 + CH 1) 5250~5350)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

| | | |
|--|--------------|-----------------------|
| Maximum peak output power at antenna input terminal: | 13.94 | (dBm) |
| Maximum peak output power at antenna input terminal: | 24.77422058 | (mW) |
| Duty cycle: | 100 | (%) |
| Maximum Pav : | 24.77422058 | (mW) |
| Antenna gain (typical): | 6.89 | (dBi) |
| Maximum antenna gain: | 4.886523593 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5270 | (MHz) |
| | | |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.0240963 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.02410 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5270MHz.

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802.11n HT40 MIMO operation (CH 0 + CH 1) Power Table

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 5510.00 | 10.99 | 10.99 | 0.01256 | 1 |
| 5590.00 | 11.50 | 11.50 | 0.01413 | 1 |
| 5670.00 | 11.78 | 11.78 | 0.01507 | 1 |

MPE Prediction (802.11n HT40 MIMO operation (CH 0 + CH 1) 5470~5725)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

| | | |
|--|-------------|-----------------------|
| Maximum peak output power at antenna input terminal: | 11.78 | (dBm) |
| Maximum peak output power at antenna input terminal: | 15.06607066 | (mW) |
| Duty cycle: | 100 | (%) |
| Maximum Pav : | 15.06607066 | (mW) |
| Antenna gain (typical): | 7.86 | (dBi) |
| Maximum antenna gain: | 6.109420249 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 5670 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.0183211 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.01832 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5670MHz.

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