

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT AND INDUSTRY CANADA RSS 210

OF

Product Name: Mobile Phone

Brand Name: Sony

Marketing Name: C2104

Model No.: PM-0300-BV

Model Difference: N/A

FCC ID: PY7PM-0300

IC: 4170B-PM0300

Report No.: EH/2012/B0007

Issue Date: Mar. 19, 2013

FCC Rule Part: §15.247, Cat: DTS

IC Rule Part: RSS-210 issue 8 :2010, Annex 8

Prepared for: Sony Mobile Communications AB
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VERIFICATION OF COMPLIANCE

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

Product Name: Mobile Phone

Brand Name: Sony

Marketing Name: C2104

Model No.: PM-0300-BV

Model Difference: N/A

FCC ID: PY7PM-0300

IC: 4170B-PM0300

File Number: EH/2012/B0007

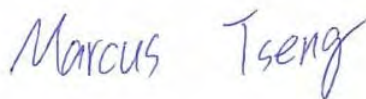


Date of test: Nov. 06, 2012 ~ Dec. 06, 2012

Date of EUT Received: Nov. 06, 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 & ANSI 63.10:2009 and RSS-Gen. issue 3 the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.247 and IC RSS 210 issue 8: 2010 Annex 8.

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

| | | | |
|---------------------|---|-------------|---------------|
| Test By: |  | Date | Apr. 05, 2013 |
| | <hr/> | | |
| | <i>Marcus Tseng / Engineer</i> | | |
| Prepared By: |  | Date | Apr. 05, 2013 |
| | <hr/> | | |
| | <i>Cherry Chen / Clerk</i> | | |
| Approved By: |  | Date | Apr. 05, 2013 |
| | <hr/> | | |
| | <i>Jim Chang / Supervisor</i> | | |

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Version

| Version No. | Date | Description |
|-------------|---------------|--|
| 00 | Dec. 06, 2012 | Initial creation of document |
| 01 | Mar 19, 2013 | Revise the description of test procedure, reformat the test item to more readable, and viewable. Remove description not relevant to the respective regulatory provision. |
| 02 | Apr 04, 2013 | Add the measurement uncertainty with +- indicating how value uncertainty is based on the section of uncertainty on page 17. |
| 04 | Apr 05, 2013 | Rephrase the description on section 1.1 to reflect specific ruling band being performed on this report on page 10. Change the format of the tabular data on 135~136. |

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1 GENERAL INFORMATION

1.1 . Product description

General:

| | | |
|--------------------------|---|---|
| Product Name: | Mobile Phone | |
| Brand Name: | Sony | |
| Marketing Name: | C2104 | |
| Model No.: | PM-0300-BV | |
| Model Difference: | N/A | |
| Data Cable (USB): | Model No.: EC450, Supplier: K-one Type No.: AI-0700 | |
| Simple Hands-Free (SHF): | Model No.: MH410c, Supplier: Foster Electric Type No.: AG-1100 | |
| Car Charger: | Model No.: AN400, Supplier: Salcomp Type No.: CAA-0003013 | |
| Hardware Version: | A | |
| Software Version: | 15.0.A.1.1 | |
| Power Supply: | 3.7Vdc from Li-Polymer battery | |
| | Battery: | Model No.: BA900, Supplier: Sony Type No.: AB-0500 |
| | Adapter: | Model No.: EP800, Supplier: Salcomp Type No.: CAA-0002016-US |

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Bluetooth_BR+EDR:

| | |
|----------------------|---|
| Bluetooth Version: | V2.1 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK) |
| Channel number: | 79 channels |
| Modulation type: | Frequency Hopping Spread Spectrum |
| Transmit Power: | 9.75dBm |
| Frequency Range: | 2.402GHz – 2.480GHz |
| Dwell Time: | $\leq 0.4s$ |
| Antenna Designation: | PIFA Antenna, Gain: 0.02dBi |
| Type of Emission: | 891KF7D (GFSK) / 1M18G7D ($\pi/4$ DQPSK) / 1M18G7D (8DPSK) |

Bluetooth Low Energy:

| | |
|----------------------|-----------------------------|
| Frequency Range: | 2402 – 2480MHz |
| Bluetooth Version: | V4.0 Dual mode |
| Channel number: | 40 channels |
| Modulation type: | GFSK |
| Transmit Power: | 1.45 dBm (Peak) |
| Antenna Designation: | PIFA Antenna, Gain: 0.02dBi |
| Type of Emission: | 1M09F7D |

NFC:

| | |
|---------------------|----------------------|
| Operating Frequency | 13.56MHz |
| Transmit Power | $< 123dBuV/m$ at 3m. |
| Number of Channels | 1 |
| Antenna Type | Loop Antenna |
| Modulation Type | ASK, BPSK |
| Type of Emission: | 23K0F1D |

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GSM / WCDMA:

| Cellular Phone Standards Frequency Range and Power. | Operating Frequency | | Rated Power |
|--|---|-----------------------|-------------|
| | GSM/GPRS 850, Class 12 | 824.2 MHz– 848.8 MHz | 33 dBm |
| | EDGE 850, Class 12 | 824.2 MHz– 848.8 MHz | 27 dBm |
| | GSM/GPRS 1900, Class 12 | 1850.2MHz – 1909.8MHz | 30 dBm |
| | EDGE 1900, Class 12 | 1850.2MHz – 1909.8MHz | 26 dBm |
| | WCDMA/HSUPA/HSDPA /HSPA+ Band II | 1852.4MHz – 1907.6MHz | 24 dBm |
| | WCDMA/HSUPA/HSDPA /HSPA+ Band IV | 1712.4MHz - 1752.6MHz | 24 dBm |
| | WCDMA/HSUPA/HSDPA /HSPA+ Band V | 826.4MHz - 846.6MHz | 24 dBm |
| Type of Emission: | GSM 850: 249KGXW, GSM 1900: 253KGXW GPRS 850: 250KGXW, GPRS 1900: 247KGXW EDGE 850: 243KG7W, EDGE 1900: 251KG7W WCDMA Band II: 4M19F9W, WCDMA Band IV: 4M19F9W, WCDMA Band V: 4M20F9W HSDPA Band II: 4M24F9W, HSDPA Band IV: 4M24F9W, HSDPA Band V: 4M22F9W HSUPA Band II: 4M24F9W, HSUPA Band IV: 4M23F9W, HSUPA Band V: 4M25F9W | | |
| IMEI: | 004402146156595 | | |

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WLAN 5GHz:

| Wi-Fi | Frequency Range | Channels | Rated Power (Avg) | Rated Power (EIRP) | Modulation Technology | Type of Emission |
|---------------------|-------------------|--|-------------------|--------------------|-----------------------|------------------|
| 11a | 5150~5250 | 4 | 15.95dBm | 16.21dBm | OFDM | 17M7D1D |
| | 5250~5350 | 4 | 15.87dBm | 16.90dBm | | 17M6D1D |
| | 5470~5725 | 11 | 15.97dBm | 19.37dBm | | 17M9D1D |
| 11n | HT20 5150~5250 | 4 | HT20: 15.97dBm | HT20: 16.23dBm | OFDM | 18M5D1D |
| | HT20 5250~5350 | 4 | HT20: 15.92dBm | HT20: 16.95dBm | | 18M5D1D |
| | HT20 5470~5725 | 11 | HT20: 15.98dBm | HT20: 19.38dBm | | 18M5D1D |
| 11n | HT40 5150~5250 | 2 | HT40: 15.77dBm | HT40: 16.03dBm | OFDM | 36M2D1D |
| | HT40 5250~5350 | 2 | HT40: 15.78dBm | HT40: 16.81dBm | | 36M3D1D |
| | HT40 5470~5725 | 5 | HT40: 15.93dBm | HT40: 19.33dBm | | 36M4D1D |
| Antenna Designation | | PIFA Antenna, 5GHz Gain: 0.26 dBi (5150MHz-5250MHz) 5GHz Gain: 1.03 dBi (5250MHz-5350MHz) 5GHz Gain: 3.40 dBi (5470MHz-5725MHz) | | | | |
| 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 – 72.2Mbps 802.11 n_40MHz: 13.5 – 150Mbps | | | | |

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WLAN 2.4GHz+5.7GHz:

| Wi-Fi | Frequency Range | Channels | Rated Power | Modulation Technology | Type of Emission |
|----------------------|-------------------|---|----------------------------|-----------------------|--------------------------|
| 11b/g | 2412-2462 | 11 | b: 20.36dBm g: 19.19dBm | DSSS, OFDM | b: 15M3G1D g: 17M2D1D |
| 11n | HT20 2412-2462 | 11 | HT20: 19.13dBm | OFDM | n: 18M0D1D |
| 11a | 5725-5850 | 5 | a : 19.38 dBm | OFDM | a: 17M9D1D |
| 11n (5GHz) | HT20 5725-5850 | 5 | HT20: 19.26 dBm | | n_20HT:18M4D1D |
| 11n (5GHz) | HT40 5725-5850 | 2 | HT40: 19.50 dBm | | n_40HT:36M8D1D |
| Antenna Designation: | | PIFA Antenna, 2.4GHz Gain: 0.02dBi 5GHz Gain: 3.11 dBi (5725MHz-5850MHz) | | | |
| 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 b: 1/2/5.5/11 Mbps 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 72.2Mbps 802.11 n_40MHz: 13.5 – 150Mbps | | | |

The 2.4G max antenna gain is 0.02dBi which was choosing for Radiated Spurious Emission test.
The 5G max antenna gain is 3.11 dBi which was choosing for Radiated Spurious Emission test.
The EUT is in compliance with FCC §15.247 at which the frequency band of 2400~2483.5, and 5725~5850MHz has been tested.

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IEEE 802.11n Spec:

| MCS Index | Nss | Modulation | R | NBPS | NCBPS | | NDBPS | | Data rate(Mbps) | | | |
|-----------|-----|------------|-----|------|-------|-------|-------|-------|-----------------|-------|---------|-------|
| | | | | | 20MHz | 40MHz | 20MHz | 40MHz | 80nsGI | | 400nsGI | |
| | | | | | | | | | 20MHz | 40MHz | 20MHz | 40MHz |
| 0 | 1 | BPSK | 1/2 | 1 | 52 | 108 | 26 | 54 | 6.5 | 13.5 | 7.200 | 15 |
| 1 | 1 | QPSK | 1/2 | 2 | 104 | 216 | 52 | 108 | 13.0 | 27.0 | 14.400 | 30 |
| 2 | 1 | QPSK | 3/4 | 2 | 104 | 216 | 78 | 162 | 19.5 | 40.5 | 21.700 | 45 |
| 3 | 1 | 16-QAM | 1/2 | 4 | 208 | 432 | 104 | 216 | 26.0 | 54.0 | 28.900 | 60 |
| 4 | 1 | 16-QAM | 3/4 | 4 | 208 | 432 | 156 | 324 | 39.0 | 81.0 | 43.300 | 90 |
| 5 | 1 | 64-QAM | 2/3 | 6 | 312 | 648 | 208 | 432 | 52.0 | 108.0 | 57.800 | 120 |
| 6 | 1 | 64-QAM | 3/4 | 6 | 312 | 648 | 234 | 486 | 58.5 | 121.5 | 65.000 | 135 |
| 7 | 1 | 64-QAM | 5/6 | 6 | 312 | 648 | 260 | 540 | 65.0 | 135.0 | 72.200 | 150 |
| 8 | 2 | BPSK | 1/2 | 1 | 104 | 216 | 52 | 108 | 13.0 | 27.0 | 14.444 | 30 |
| 9 | 2 | QPSK | 1/2 | 2 | 208 | 432 | 104 | 216 | 26.0 | 54.0 | 28.889 | 60 |
| 10 | 2 | QPSK | 3/4 | 2 | 208 | 432 | 156 | 324 | 39.0 | 81.0 | 43.333 | 90 |
| 11 | 2 | 16-QAM | 1/2 | 4 | 416 | 864 | 208 | 432 | 52.0 | 108.0 | 57.778 | 120 |
| 12 | 2 | 16-QAM | 3/4 | 4 | 416 | 864 | 312 | 648 | 78.0 | 162.0 | 86.667 | 180 |
| 13 | 2 | 64-QAM | 2/3 | 6 | 624 | 1296 | 416 | 864 | 104.0 | 216.0 | 115.556 | 240 |
| 14 | 2 | 64-QAM | 3/4 | 6 | 624 | 1296 | 468 | 972 | 117.0 | 243.0 | 130.000 | 270 |
| 15 | 2 | 64-QAM | 5/6 | 6 | 624 | 1296 | 520 | 1080 | 130.0 | 270.0 | 144.444 | 300 |

| Symbol | Explanation |
|--------|---|
| NSS | Number of spatial streams |
| R | Code rate |
| NBPS | Number of coded bite per single carrier |
| NCBPS | Number of coded bite per symbol |
| NDBPS | Number of data bite per symbol |
| GI | Guard interval |

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: PY7PM-0300** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules. And **IC: 4170B-PM0300** filing to comply with Industry Canada RSS-210 issue 8: 2010 Annex 8. The composite system (digital device) is compliance with Subpart B is authorized under a DoC procedure.

1.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4:2009 and ANSI 63.10:2009 and RSS-Gen: 2010. Radiated testing was performed at an antenna to EUT distance 3 meters.

Tested in accordance with Oct 2012 KDB558074 D01 V02 for compliance to FCC 47CFR 15.247 requirements.

1.4 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009. & ANSI C63.10:2009. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-04.

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

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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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

An engineering test mode was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

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 of ANSI C63.4:2009 & ANSI 63.10:2009. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna. according to the requirements in Section 8 and 13 of ANSI C63.4:2009 & ANSI 63.10:2009.

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2.4 Configuration of Tested System

Fig. 2-1 Conducted / Radiated Emission Configuration

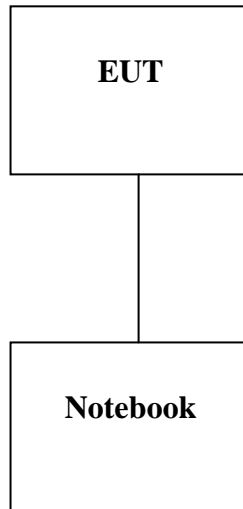


Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|--------------------|-----------|----------------|------------|-------------|-------------|
| 1. | Notebook | IBM | T60 | L3DK794 | Un-shielded | Un-shielded |
| 2. | WLAN Test Software | QRCT | 2.4.83.0 | N/A | N/A | N/A |

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3 SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|------------------------------------|--|-----------|
| §15.207(a) RSS-Gen §7.2.4 | AC Power Line Conducted Emission | Compliant |
| §15.247(b) (3) RSS-210 §A8.4(4) | Peak Output Power | Compliant |
| §15.247(a)(2) RSS-210 §A8.2 (a) | 6dB Bandwidth | Compliant |
| §15.247(d) RSS-210 §A8.5 | 100 KHz Bandwidth Of Frequency Band Edges | Compliant |
| §15.247(d) RSS-210 §A8.5 | Spurious Emission | Compliant |
| §15.247(e) RSS-210 §A8.2(b) | Peak Power Density | Compliant |
| §15.203 RSS-GEN §7.1.2, | Antenna Requirement | Compliant |
| RSS-Gen §4.6.1 | 99% Power Bandwidth | 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 and receiving mode is programmed.

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

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

802.11 n_20MHz mode: Channel low (2412MHz) 、mid (2437MHz) and high (2462MHz) with 6.5Mbps lowest data rate are chosen for full testing.

802.11 a mode: Channel low (5745MHz) 、mid (5785MHz) and high (5825MHz) with 6Mbps lowest data rate are chosen for full testing.

802.11 n (5GHz) _20MHz: Lowest (5745MHz), Mid (5785MHz) and high (5825MHz) with 6.5 Mbps lowest data rate are chosen for full testing.

802.11 n (5GHz) _40MHz: Lowest (5755MHz) and high (5795MHz) with 13.5 Mbps lowest data rate are chosen for full testing.

The worst case is determined by the output power that generates the highest emission. As examined in the section of output power measurement, the section 7.5, the lowest data rate at a/b/g/n_HT20/n_HT40 resulted the highest level of fundamental emission, and therefore, the lowest data rate is chosen as the worst-case to conduct the remaining of other mandatory test cases.

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11 a/b/g/n WLAN Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

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5 MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|---|--|
| AC Power Line Conducted Emission | +/- 2.586 dB |
| Peak Output Power | +/- 1.55dB (for Spectrum) +/- 1.42 dB (for Power Meter) |
| 6dB Bandwidth | +/- 123.36 Hz |
| 100 KHz Bandwidth Of Frequency Band Edges | +/- 1.55 dB |
| Peak Power Density | +/- 1.55 dB |
| 99% Power Bandwidth | +/- 123.36 Hz |
| Temperature | +/- 0.8 °C |
| Humidity | +/- 4.7 % |
| DC / AC Power Source | DC= +/- 1%, AC= +/- 0.2% |

Radiated Spurious Emission:

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

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable:

According to §15.207 and RSS-Gen §7.2.4, frequency range within 150KHz to 30MHz shall not exceed the Limit table as below.

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

Note

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

6.2 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 |

6.3 EUT Setup:

- The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4:2009 & ANSI 63.10:2009.
- The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- The LISN was connected with 120Vac/60Hz power source.

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6.4 Measurement Procedure:

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

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.

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

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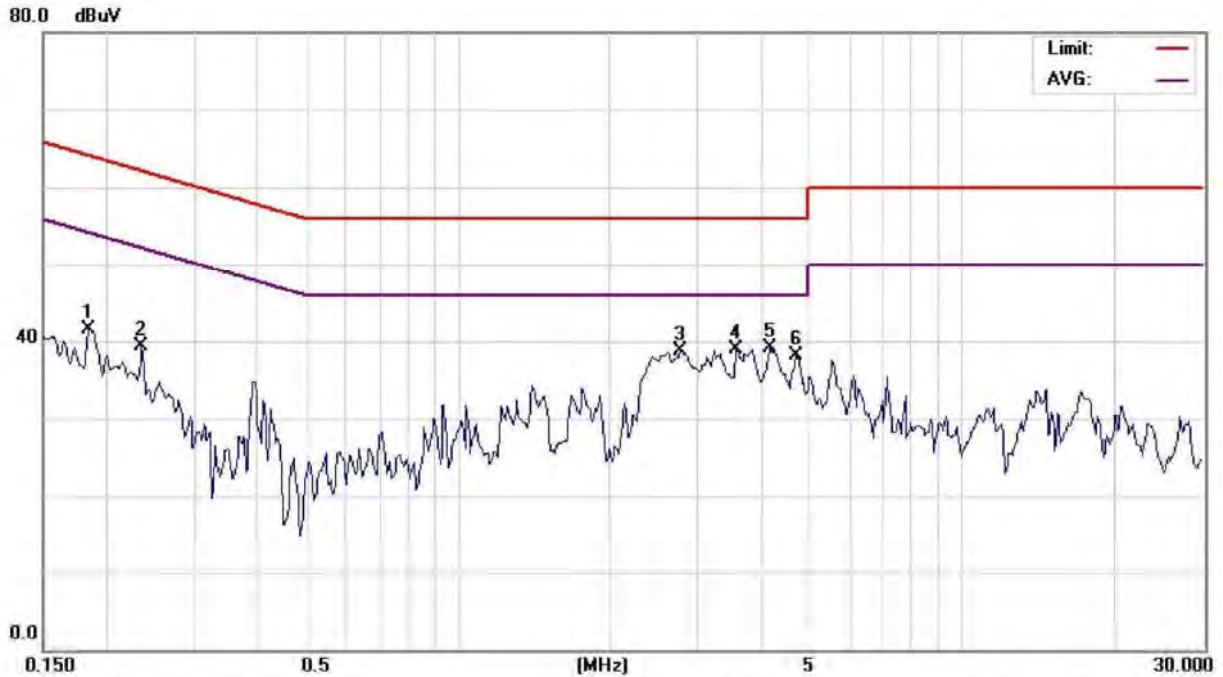
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AC POWER LINE CONDUCTED EMISSION TEST DATA

| | | | | | |
|-----------------|----------------|-----------|------------|---------------|--------|
| Operation Mode: | Operation mode | | Test Date: | Nov. 19, 2012 | |
| Temperature: | 26 °C | Humidity: | 60 % | Test By: | Marcus |



| | | | | | |
|--------|----------------------------|-----------|--------------|--------------|-------|
| Site | ConductionRoom | Phase: | L1 | Temperature: | 26 °C |
| Limit: | FCC Class B Conduction(QP) | Power: | AC 120V/60Hz | Humidity: | 60% |
| EUT: | MobilePhone | Distance: | | | |
| M/N: | PM-0300-BV | | | | |
| Mode: | Operationmode | | | | |
| Note: | | | | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|--------|---------------|----------------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | | 0.1852 | 41.36 | 0.22 | 41.58 | 64.25 | -22.67 | peak | |
| 2 | | 0.2360 | 39.14 | 0.21 | 39.35 | 62.24 | -22.89 | peak | |
| 3 | | 2.7678 | 38.41 | 0.27 | 38.68 | 56.00 | -17.32 | peak | |
| 4 | | 3.5811 | 38.70 | 0.29 | 38.99 | 56.00 | -17.01 | peak | |
| 5 | * | 4.1793 | 38.79 | 0.30 | 39.09 | 56.00 | -16.91 | peak | |
| 6 | | 4.7032 | 37.82 | 0.32 | 38.14 | 56.00 | -17.86 | peak | |

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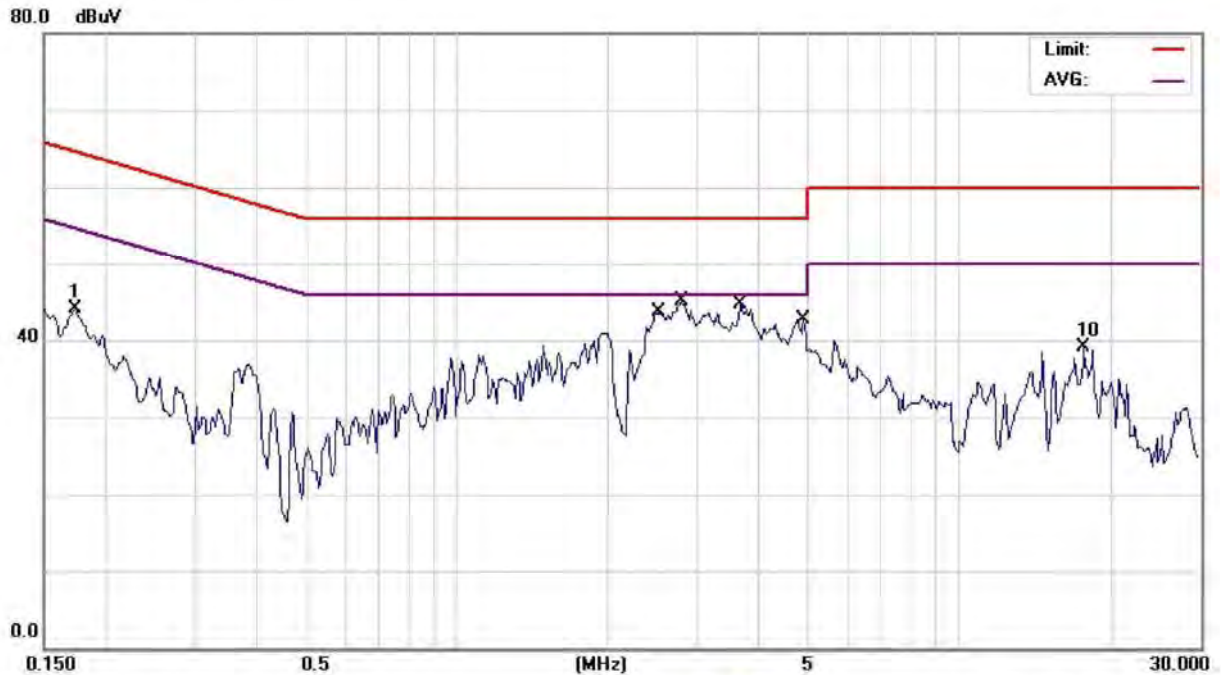
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Site ConductionRoom Phase: **N** Temperature: 26 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60%
 EUT: MobilePhone Distance:
 M/N: PM-0300-BV
 Mode: Operationmode
 Note:

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | | 0.1735 | 43.84 | 0.33 | 44.17 | 64.79 | -20.62 | peak | |
| 2 | | 2.5271 | 37.60 | 0.34 | 37.94 | 56.00 | -18.06 | QP | |
| 3 | * | 2.5271 | 28.29 | 0.34 | 28.63 | 46.00 | -17.37 | AVG | |
| 4 | | 2.7958 | 37.50 | 0.34 | 37.84 | 56.00 | -18.16 | QP | |
| 5 | | 2.7958 | 27.72 | 0.34 | 28.06 | 46.00 | -17.94 | AVG | |
| 6 | | 3.6607 | 35.22 | 0.35 | 35.57 | 56.00 | -20.43 | QP | |
| 7 | | 3.6607 | 26.66 | 0.35 | 27.01 | 46.00 | -18.99 | AVG | |
| 8 | | 4.9004 | 32.96 | 0.37 | 33.33 | 56.00 | -22.67 | QP | |
| 9 | | 4.9004 | 23.54 | 0.37 | 23.91 | 46.00 | -22.09 | AVG | |
| 10 | | 17.7896 | 38.33 | 0.69 | 39.02 | 60.00 | -20.98 | peak | |

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7 PEAK OUTPUT POWER MEASUREMENT

7.1 Standard Applicable:

According to §15.247 (b)

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

(1) Fixed point-to-point operation:

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

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

According to RSS-210 issue 8, §A8.4(4), for systems employing digital modulation techniques operating in the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz, the maximum peak conducted output power shall not exceed 1 W. Except as provided in Section A8.4 (5), the e.i.r.p. shall not exceed 4 W.

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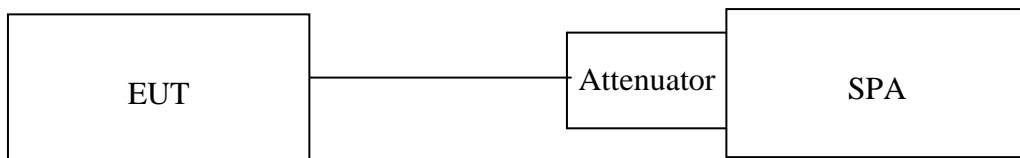
As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signalling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or transmitting at a reduced power level. If multiple modes of operation are implemented, the maximum conducted output power is the highest total transmit power occurring in any mode.

7.2 Measurement Equipment Used:

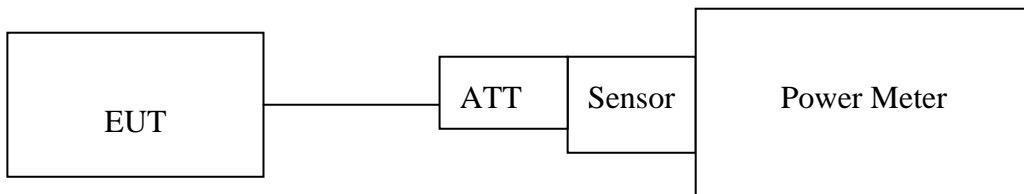
| Conducted Emission Test Site | | | | | |
|------------------------------|---------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Power Sensor | Anritsu | ML2495A | 1005007 | 02/08/2012 | 02/07/2014 |
| 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 |

7.3 Test Set-up:

Spectrum:



Power Meter:



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7.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (**Peak power setting on spectrum:** Channel power function, RBW = 1MHz, VBW = 3MHz, Span: 30/60MHz, Detector =peak, Sweep = Auto. Setting on spectrum is adjusted based on the mandatory procedure in 8.1.2 Option2 of the KDB558074). Power Meter is used as the auxiliary test equipment to conduct the output power measurement. 8.1.3 option 3 in KDB558074 is followed.
Avg. power setting on Spectrum: Channel power function, RBW = 1MHz, VBW = 3MHz, , Span:30/60MHz, Detector =Avg., Trace avg.=100, Sweep = Auto, Setting on spectrum is adjusted based on the mandatory procedure in 8.2.1 Option1 of the KDB558074). Power Meter is used as the auxiliary test equipment to conduct the output power measurement. 8.2.3 option 3 in KDB558074 is followed.
3. Record the max. Reading as observed from Spectrum or Power Meter.
4. Repeat above procedures until all frequency measured was complete.

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7.5 Measurement Result:

802.11b

| | | Peak Power Output (dBm) | | | | |
|----|-----------------|-------------------------|-------|-------|-------|-----------------|
| CH | Frequency (MHz) | Data Rate | | | | Required Limit |
| | | 1 | 2 | 5.5 | 11 | |
| 1 | 2412 | 20.36 | 20.34 | 20.32 | 20.30 | 1 Watt = 30 dBm |
| 6 | 2437 | 20.25 | 20.22 | 20.20 | 20.21 | 1 Watt = 30 dBm |
| 11 | 2462 | 20.32 | 20.30 | 20.29 | 20.28 | 1 Watt = 30 dBm |

| | | Average Power Output (dBm) | | | | |
|----|-----------------|----------------------------|-------|-------|-------|-----------------|
| CH | Frequency (MHz) | Data Rate | | | | Required Limit |
| | | 1 | 2 | 5.5 | 11 | |
| 1 | 2412 | 17.79 | 17.66 | 17.62 | 17.58 | 1 Watt = 30 dBm |
| 6 | 2437 | 17.57 | 17.47 | 17.49 | 17.46 | 1 Watt = 30 dBm |
| 11 | 2462 | 17.67 | 17.62 | 17.61 | 17.59 | 1 Watt = 30 dBm |

802.11g

| | | Peak Power Output(dBm) | | | | | | | | |
|----|-----------------|------------------------|-------|-------|-------|-------|-------|-------|----------------|-----------------|
| CH | Frequency (MHz) | Data Rate | | | | | | | Required Limit | |
| | | 6 | 9 | 12 | 18 | 24 | 36 | 48 | | 54 |
| 1 | 2412 | 14.72 | 14.70 | 14.68 | 14.69 | 14.59 | 14.53 | 14.51 | 14.50 | 1 Watt = 30 dBm |
| 6 | 2437 | 19.19 | 19.16 | 19.12 | 19.09 | 19.07 | 19.01 | 19.01 | 19.05 | 1 Watt = 30 dBm |
| 11 | 2462 | 18.48 | 18.23 | 18.13 | 18.12 | 18.11 | 18.02 | 17.99 | 18.02 | 1 Watt = 30 dBm |

| | | Average Power Output(dBm) | | | | | | | | |
|----|-----------------|---------------------------|-------|-------|-------|-------|-------|-------|----------------|-----------------|
| CH | Frequency (MHz) | Data Rate | | | | | | | Required Limit | |
| | | 6 | 9 | 12 | 18 | 24 | 36 | 48 | | 54 |
| 1 | 2412 | 11.14 | 11.13 | 11.13 | 11.08 | 11.07 | 11.06 | 11.00 | 10.97 | 1 Watt = 30 dBm |
| 6 | 2437 | 15.67 | 15.63 | 15.65 | 15.62 | 15.61 | 15.59 | 15.55 | 15.56 | 1 Watt = 30 dBm |
| 11 | 2462 | 14.88 | 14.64 | 14.54 | 14.43 | 14.31 | 14.29 | 14.24 | 14.18 | 1 Watt = 30 dBm |

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802.11n_20M

| | | Peak Power Output(dBm) | | | | | | | | |
|----|-----------------|------------------------|-------|-------|-------|-------|-------|-------|-------|-----------------|
| CH | Frequency (MHz) | Data Rate | | | | | | | | Required Limit |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 | |
| 1 | 2412 | 14.67 | 14.56 | 14.43 | 14.38 | 14.32 | 14.33 | 14.31 | 14.36 | 1 Watt = 30 dBm |
| 6 | 2437 | 19.13 | 19.02 | 18.96 | 18.88 | 18.85 | 18.82 | 18.75 | 18.73 | 1 Watt = 30 dBm |
| 11 | 2462 | 16.53 | 16.43 | 16.50 | 16.48 | 16.47 | 16.43 | 16.41 | 16.39 | 1 Watt = 30 dBm |

| | | Average Power Output(dBm) | | | | | | | | |
|----|-----------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-----------------|
| CH | Frequency (MHz) | Data Rate | | | | | | | | Required Limit |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 | |
| 1 | 2412 | 11.02 | 10.68 | 10.70 | 10.63 | 10.64 | 10.59 | 10.58 | 10.54 | 1 Watt = 30 dBm |
| 6 | 2437 | 15.60 | 15.22 | 15.32 | 15.33 | 15.38 | 15.22 | 15.20 | 15.20 | 1 Watt = 30 dBm |
| 11 | 2462 | 12.88 | 12.82 | 12.85 | 12.85 | 12.86 | 12.81 | 12.80 | 12.79 | 1 Watt = 30 dBm |

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802.11a

| | | Peak Power Output (dBm) | | | | | | | | Required Limit |
|-----|-----------------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-----------------|
| CH | Frequency (MHz) | Data Rate | | | | | | | | |
| | | 6 | 9 | 12 | 18 | 24 | 36 | 48 | 54 | |
| 149 | 5745 | 19.34 | 19.32 | 19.29 | 19.22 | 19.14 | 19.11 | 19.07 | 19.02 | 1 Watt = 30 dBm |
| 157 | 5785 | 19.22 | 19.21 | 19.19 | 19.17 | 19.13 | 19.11 | 19.08 | 19.01 | 1 Watt = 30 dBm |
| 165 | 5825 | 19.38 | 19.34 | 19.28 | 19.16 | 19.12 | 19.08 | 19.06 | 18.98 | 1 Watt = 30 dBm |

| | | Average Power Output(dBm) | | | | | | | | Required Limit |
|-----|-----------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-----------------|
| CH | Frequency (MHz) | Data Rate | | | | | | | | |
| | | 6 | 9 | 12 | 18 | 24 | 36 | 48 | 54 | |
| 149 | 5745 | 15.74 | 15.62 | 15.50 | 15.48 | 15.47 | 15.45 | 15.43 | 15.40 | 1 Watt = 30 dBm |
| 157 | 5785 | 15.95 | 15.86 | 15.75 | 15.71 | 15.67 | 15.64 | 15.63 | 15.62 | 1 Watt = 30 dBm |
| 165 | 5825 | 15.89 | 15.78 | 15.65 | 15.64 | 15.62 | 15.59 | 15.58 | 15.55 | 1 Watt = 30 dBm |

802.11n(5GHz) 20M

| | | Peak Power Output(dBm) | | | | | | | | Required Limit |
|-----|-----------------|------------------------|-------|-------|-------|-------|-------|-------|-------|-----------------|
| CH | Frequency (MHz) | Data Rate | | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 | |
| 149 | 5745 | 19.13 | 19.10 | 19.09 | 19.09 | 19.07 | 19.05 | 18.95 | 18.89 | 1 Watt = 30 dBm |
| 157 | 5785 | 19.26 | 19.25 | 19.22 | 19.18 | 19.11 | 19.06 | 19.02 | 18.97 | 1 Watt = 30 dBm |
| 165 | 5825 | 19.22 | 19.19 | 19.16 | 19.11 | 19.05 | 18.99 | 18.94 | 18.91 | 1 Watt = 30 dBm |

| | | Average Power Output(dBm) | | | | | | | | Required Limit |
|-----|-----------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-----------------|
| CH | Frequency (MHz) | Data Rate | | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 | |
| 149 | 5745 | 15.72 | 15.67 | 15.54 | 15.52 | 15.49 | 15.47 | 15.45 | 15.42 | 1 Watt = 30 dBm |
| 157 | 5785 | 15.89 | 15.72 | 15.70 | 15.65 | 15.62 | 15.58 | 15.56 | 15.57 | 1 Watt = 30 dBm |
| 165 | 5825 | 15.89 | 15.67 | 15.66 | 15.64 | 15.65 | 15.64 | 15.63 | 15.64 | 1 Watt = 30 dBm |

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802.11n(5GHz)_40M

| | | Peak Power Output(dBm) | | | | | | | | |
|-----|-----------------|------------------------|-------|-------|-------|-------|-------|-------|-------|-----------------|
| CH | Frequency (MHz) | Data Rate | | | | | | | | Required Limit |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 | |
| 151 | 5755 | 19.50 | 19.32 | 19.28 | 19.22 | 19.19 | 19.17 | 19.12 | 19.08 | 1 Watt = 30 dBm |
| 159 | 5795 | 19.43 | 19.27 | 19.26 | 19.23 | 19.19 | 19.15 | 19.06 | 19.01 | 1 Watt = 30 dBm |

| | | Average Power Output(dBm) | | | | | | | | |
|-----|-----------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-----------------|
| CH | Frequency (MHz) | Data Rate | | | | | | | | Required Limit |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 | |
| 151 | 5755 | 15.87 | 15.71 | 15.68 | 15.66 | 15.65 | 15.63 | 16.59 | 15.58 | 1 Watt = 30 dBm |
| 159 | 5795 | 15.96 | 15.92 | 15.87 | 15.83 | 15.81 | 15.81 | 15.79 | 15.75 | 1 Watt = 30 dBm |

* Note: Offset 10.9dB for 2.4G 802.11b/g/n_20;

Offset 11.6 dB for 5G 802.11a/n_20/n_40 .

*Refer to next page for plots

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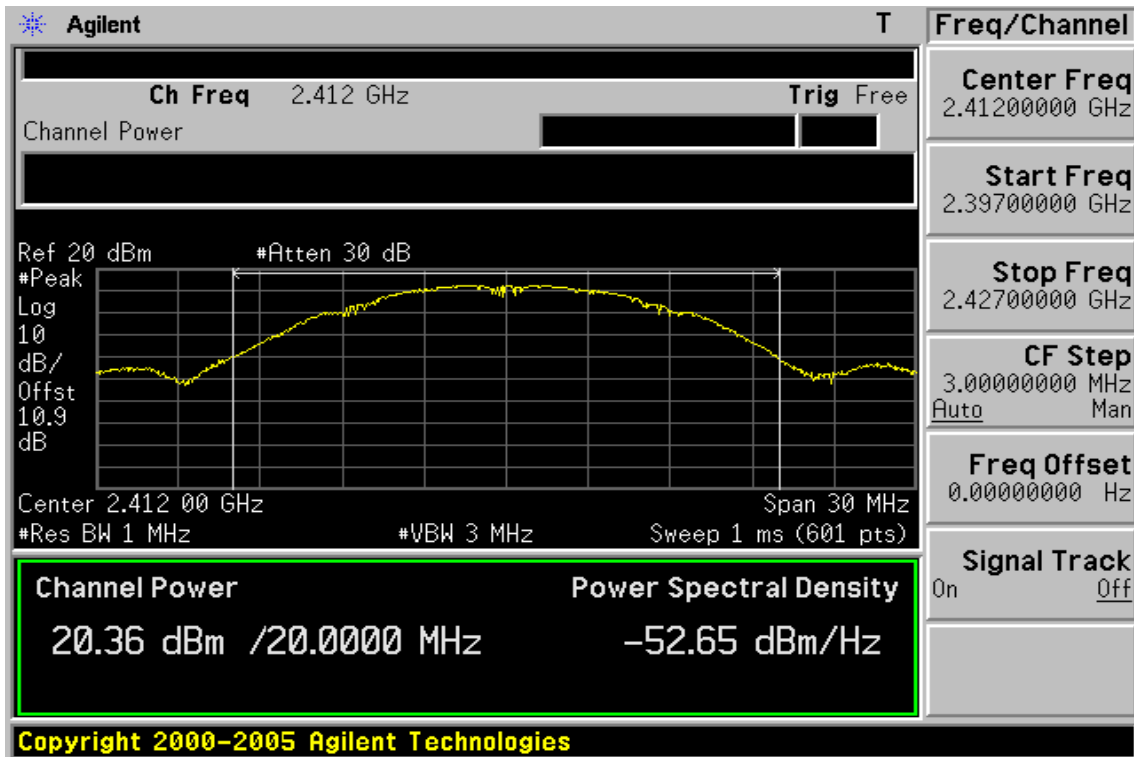
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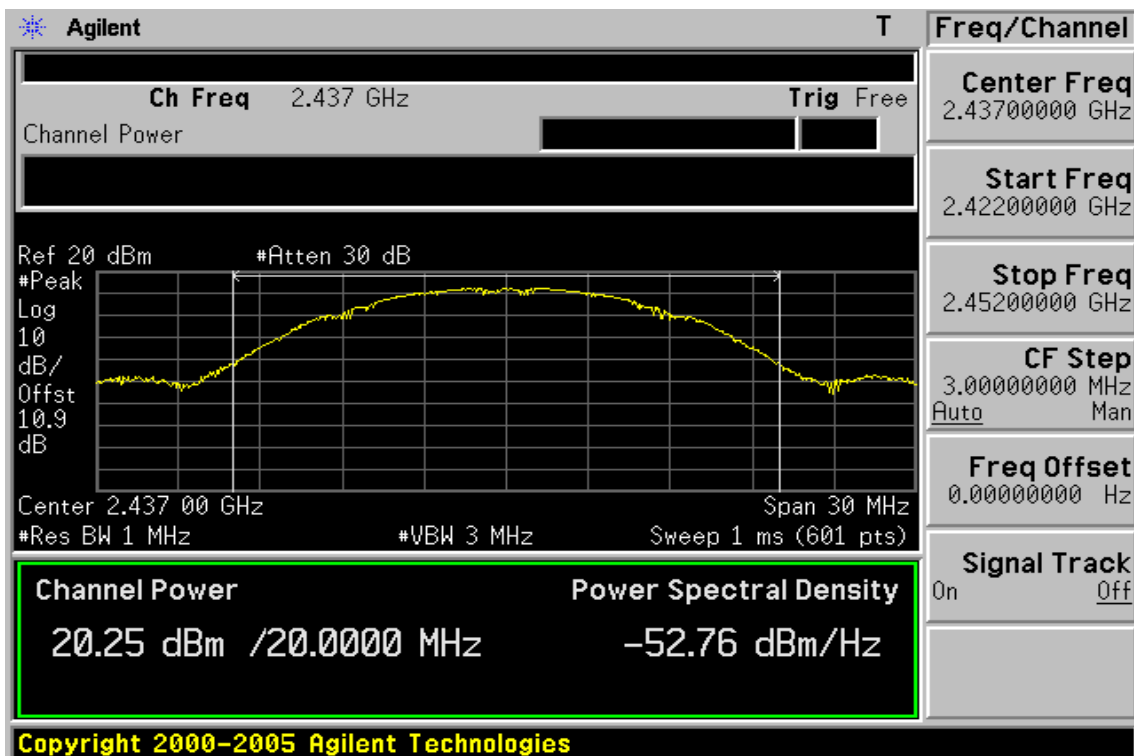
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802.11b, 1Mbps

Peak Power Output Plot (CH Low)



Peak Power Output Plot (CH Mid)



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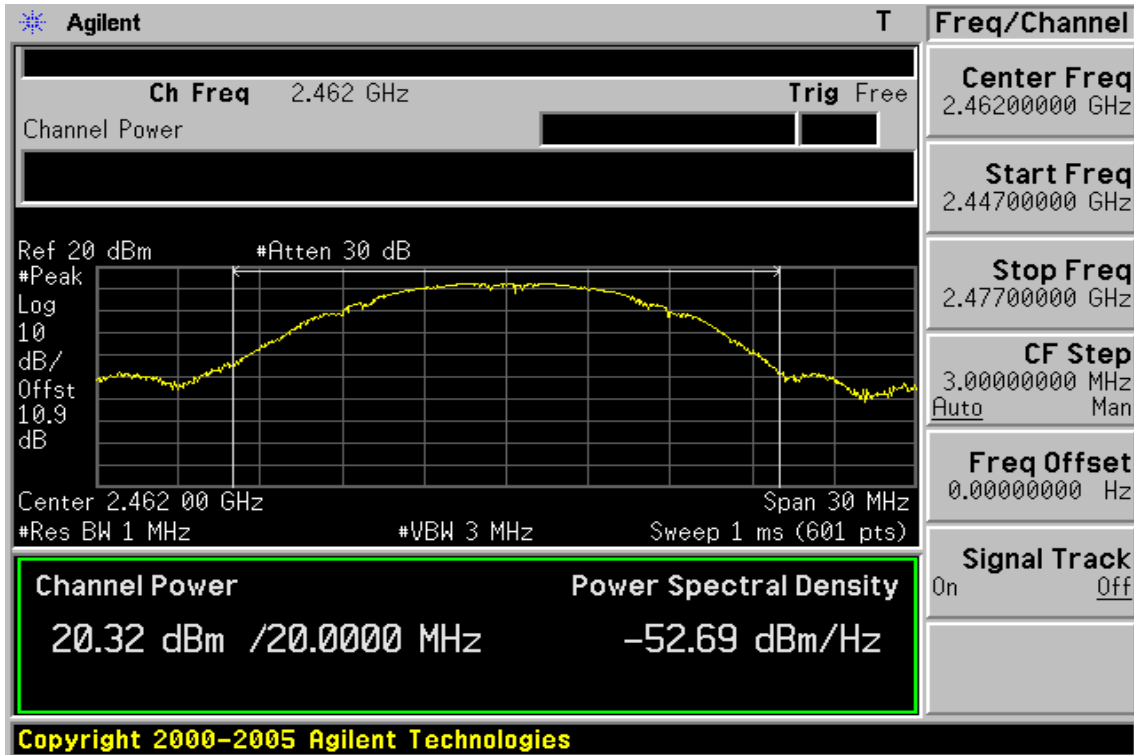
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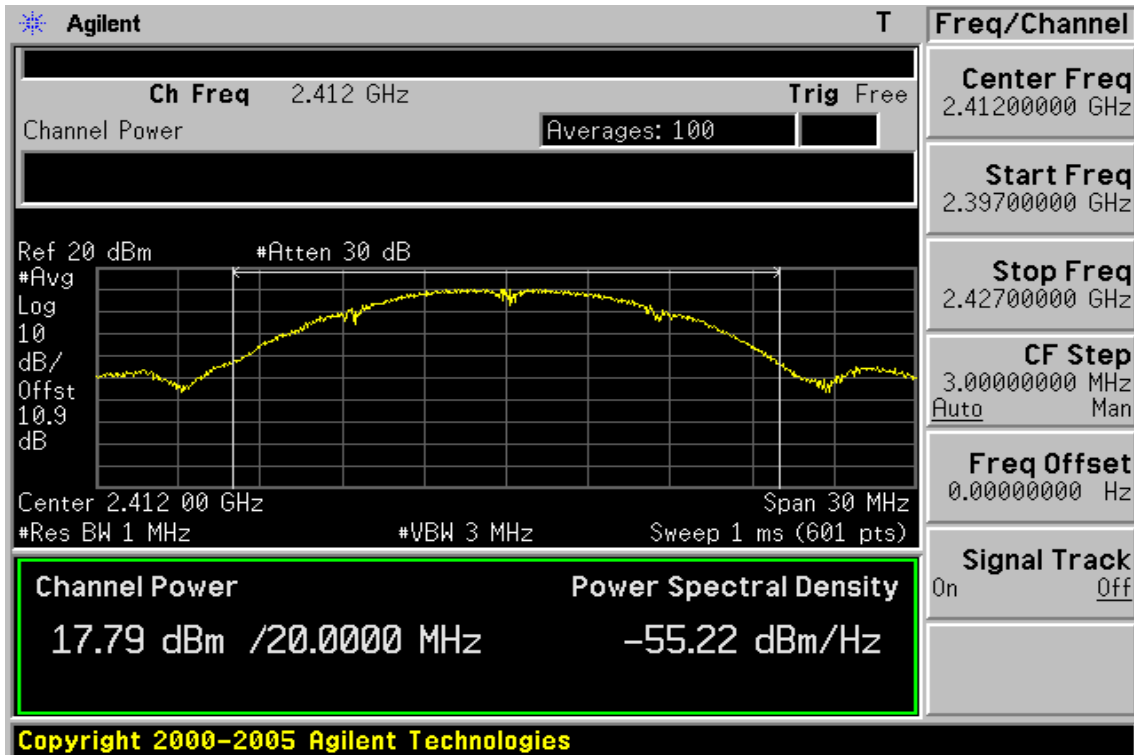
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Peak Power Output Plot (CH High)



Average Power Output Plot (CH Low)



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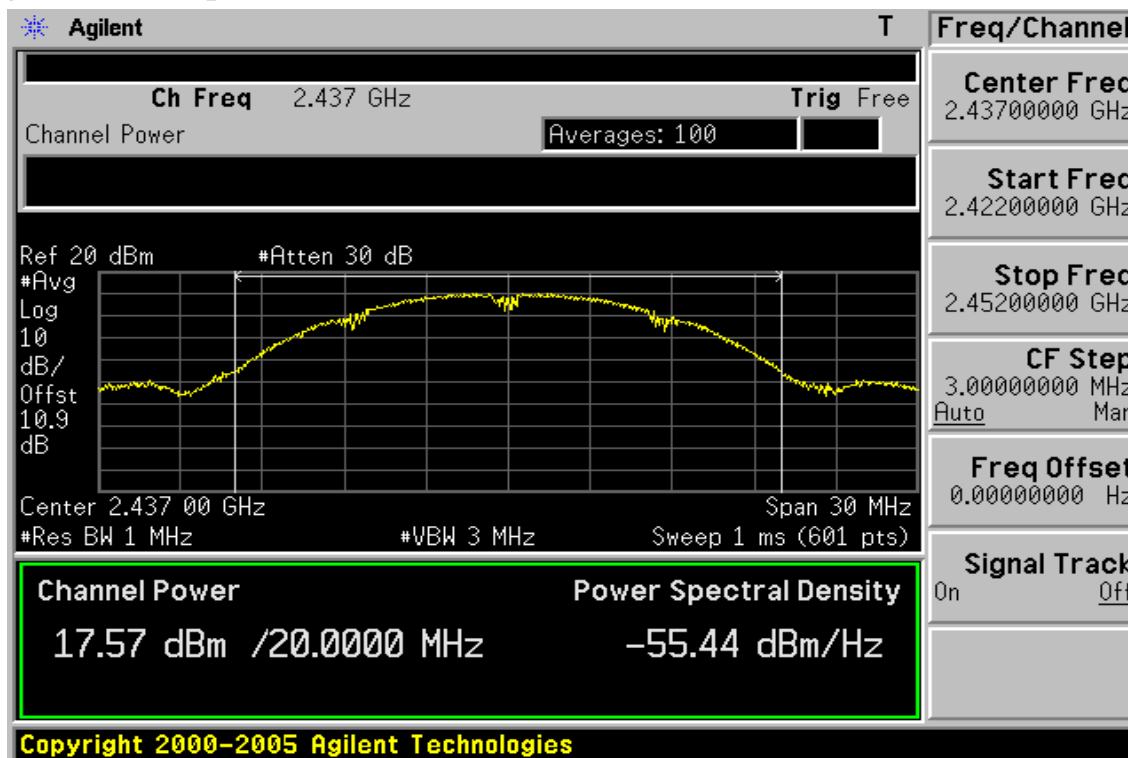
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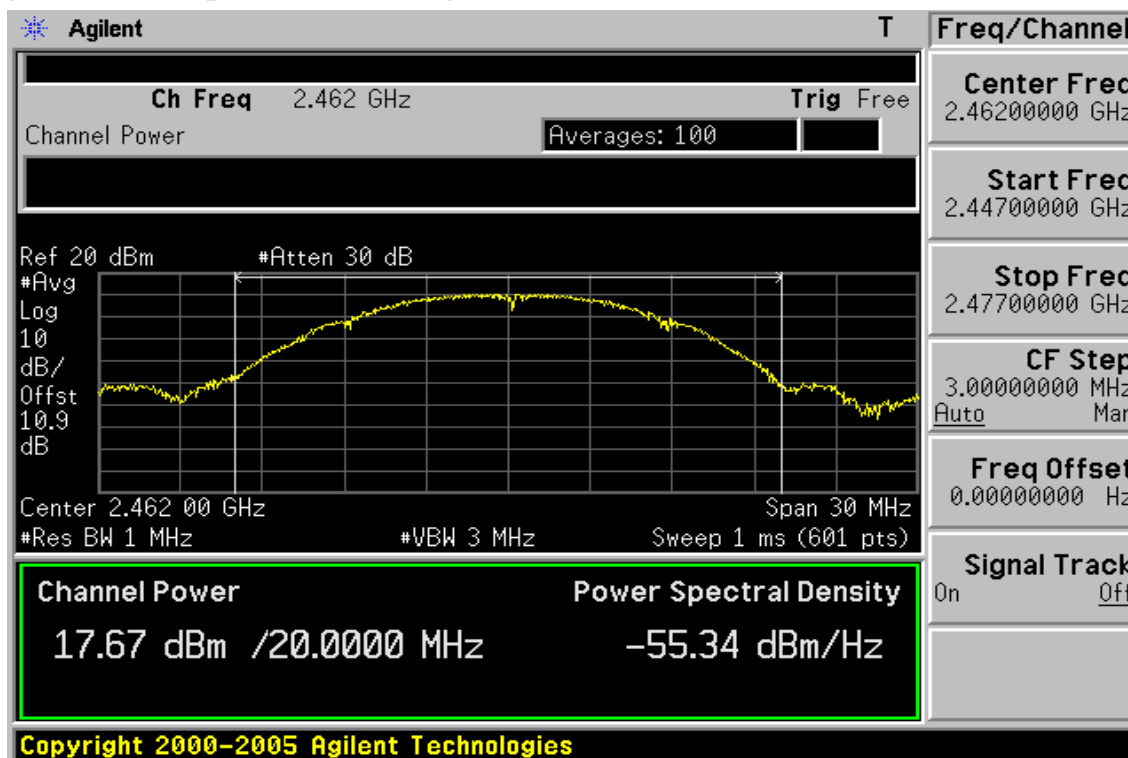
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Average Power Output Plot (CH Mid)



Average Power Output Plot (CH High)



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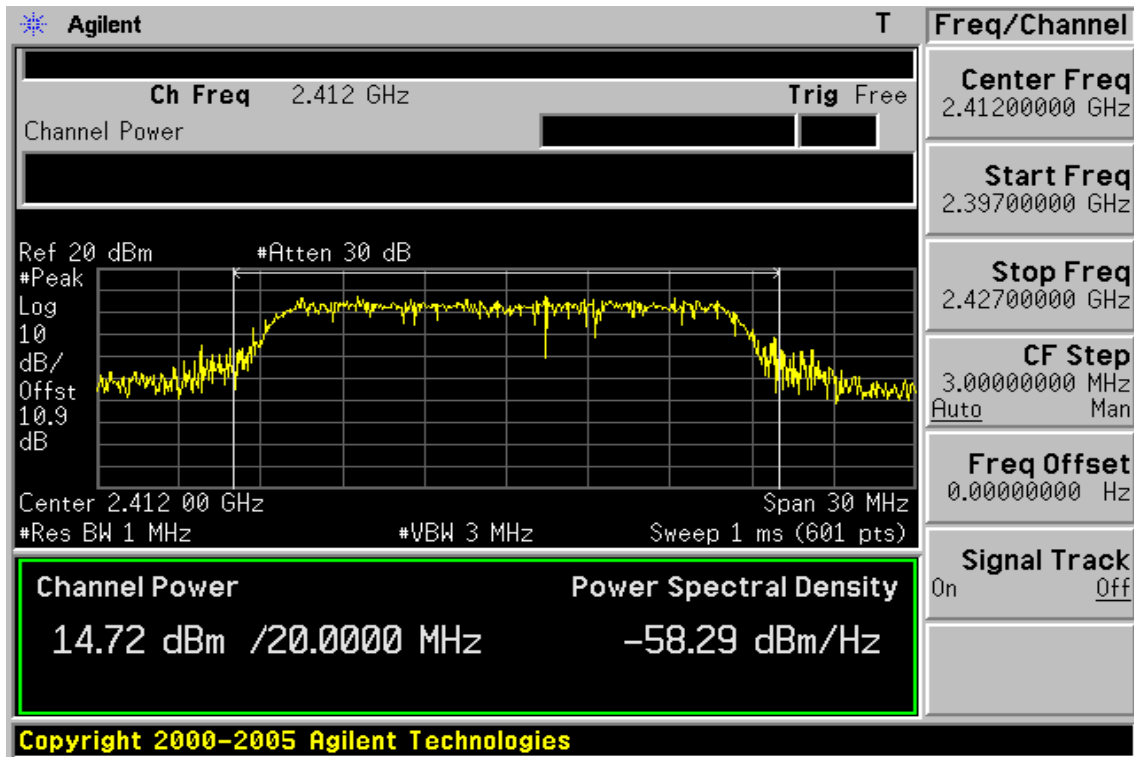
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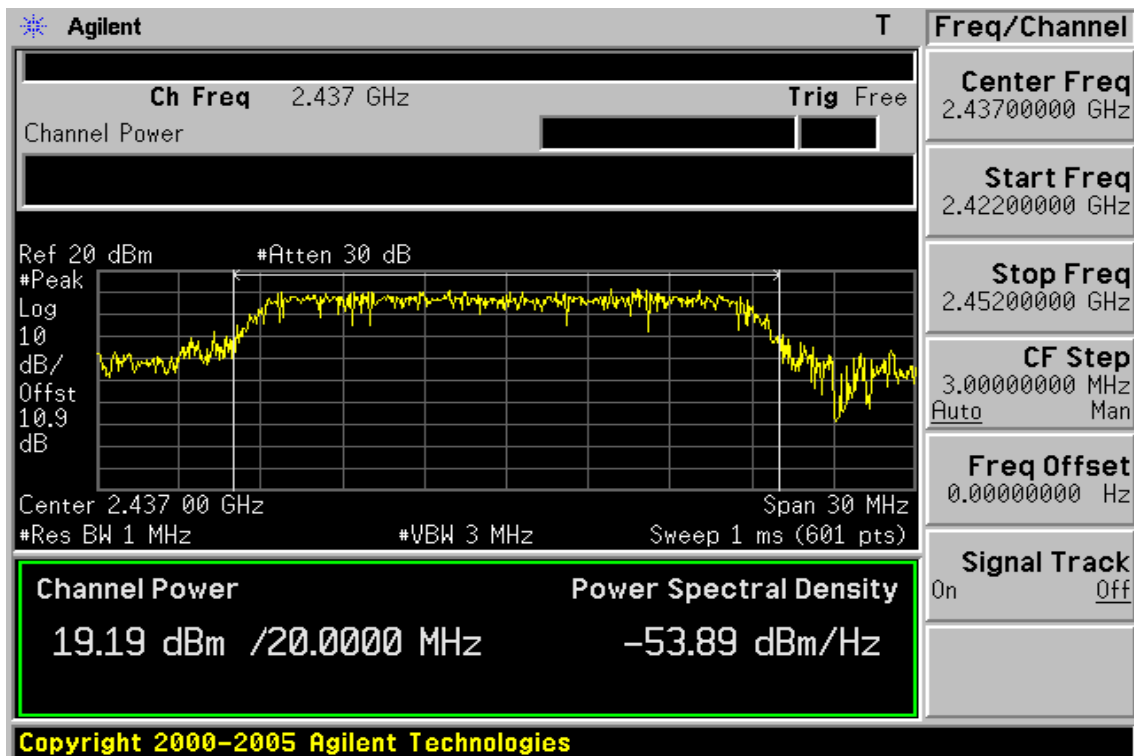
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802.11g, 6Mbps

Peak Power Output Plot (CH Low)



Peak Power Output Plot (CH Mid)



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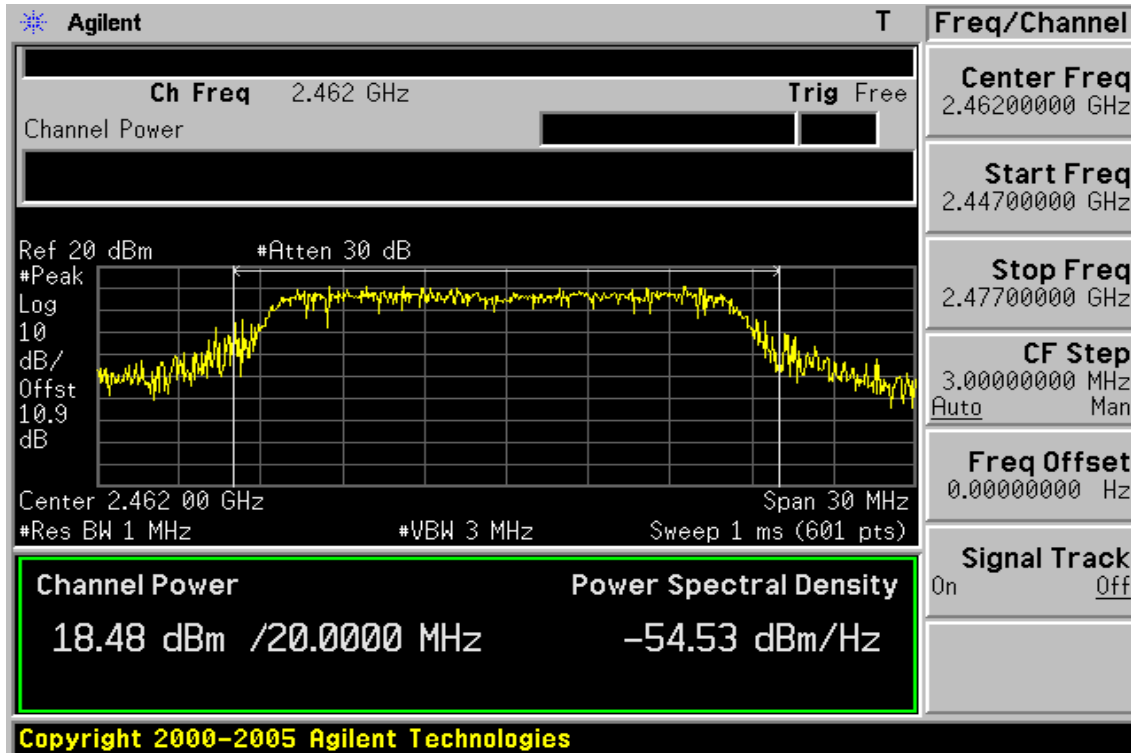
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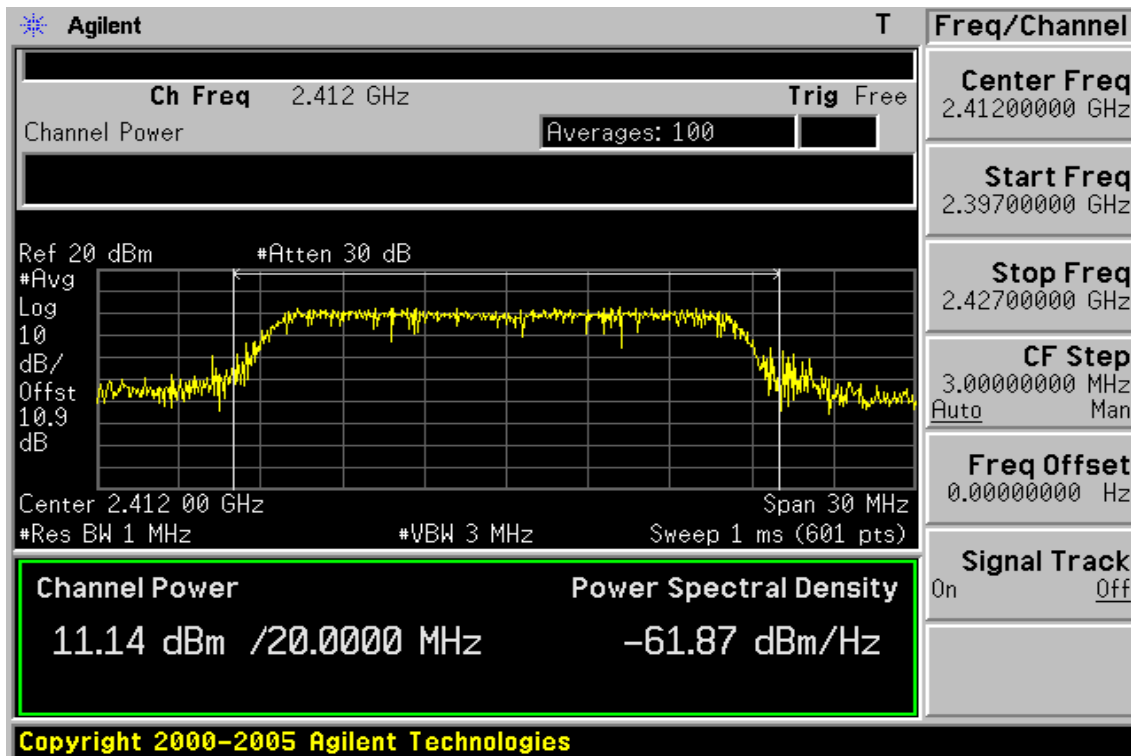
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Peak Power Output Plot (CH High)



Average Power Output Plot (CH Low)



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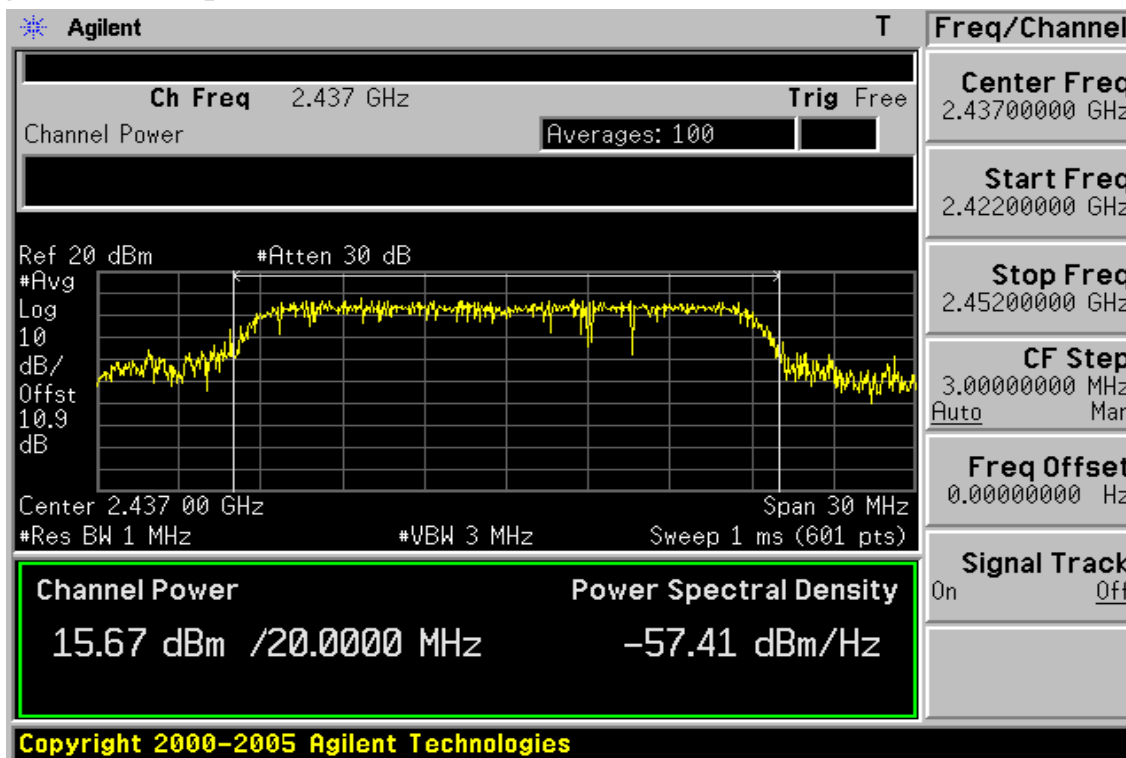
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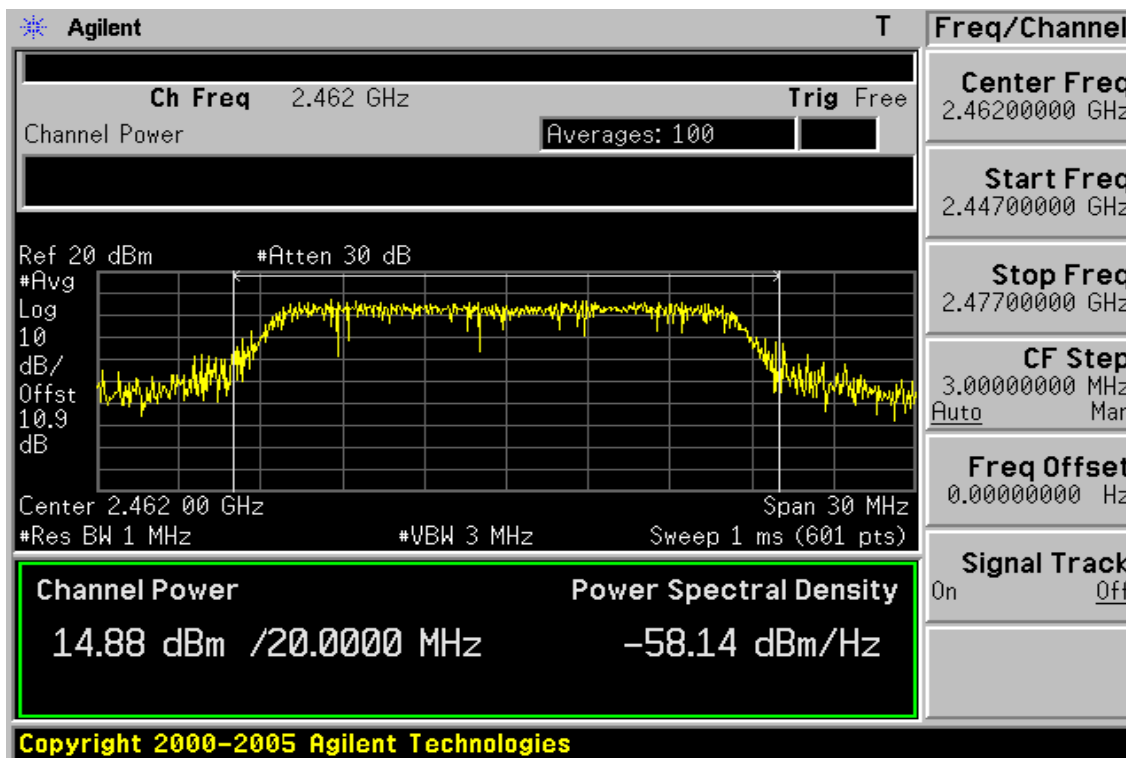
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Average Power Output Plot (CH Mid)



Average Power Output Plot (CH High)



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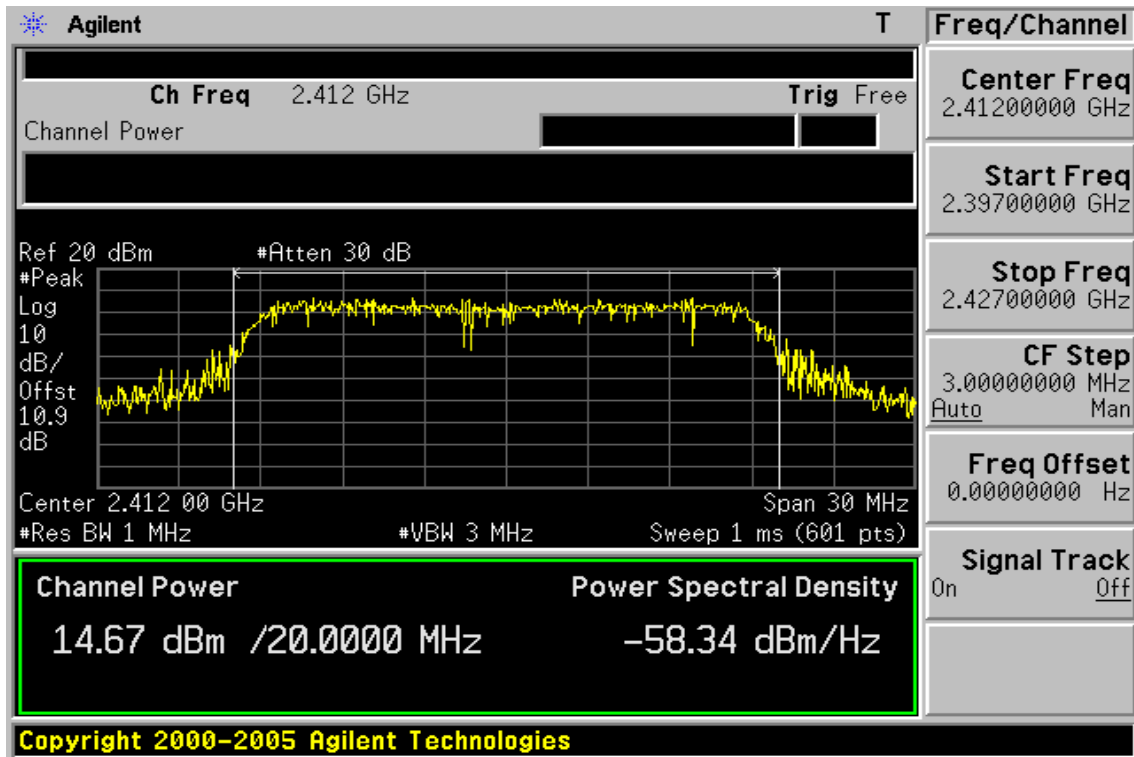
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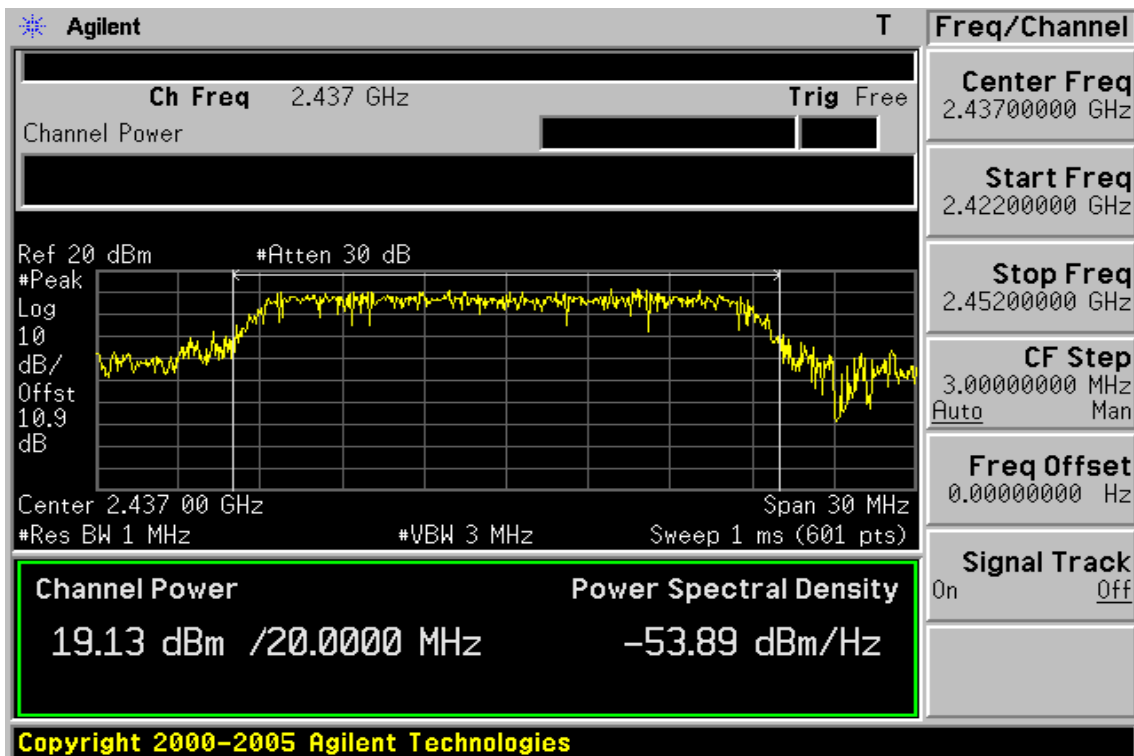
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802.11n_20M, 6.5Mbps
Peak Power Output Plot (CH Low)

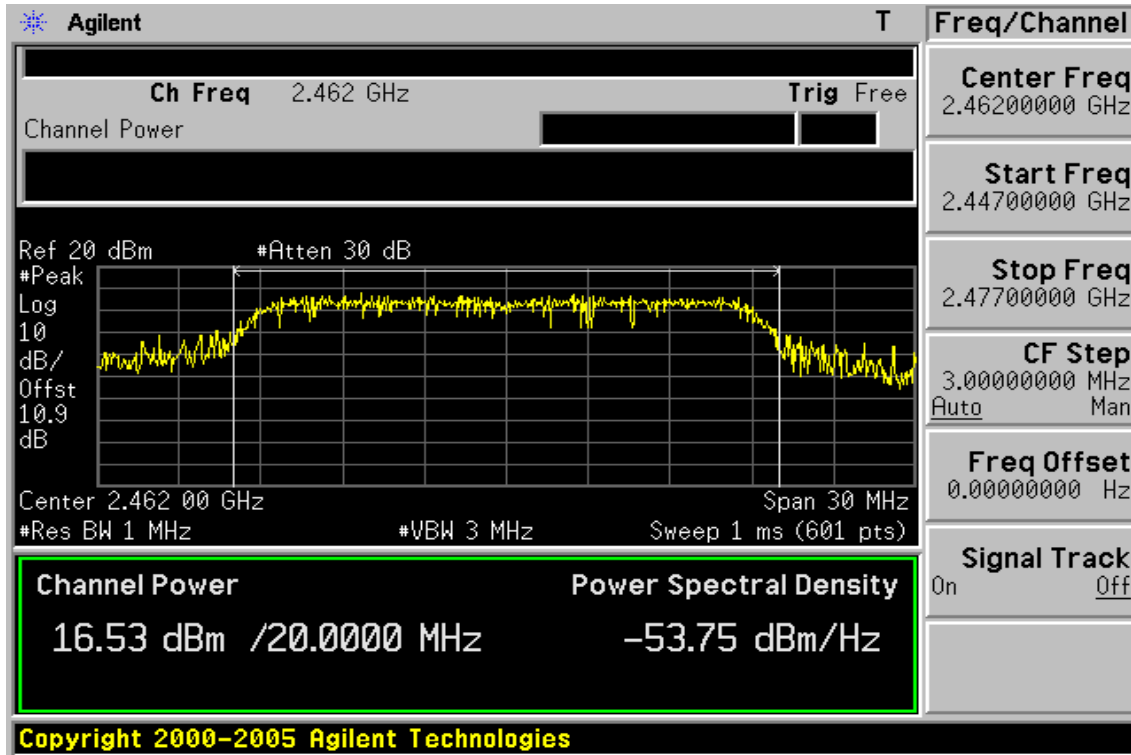


Peak Power Output Plot (CH Mid)

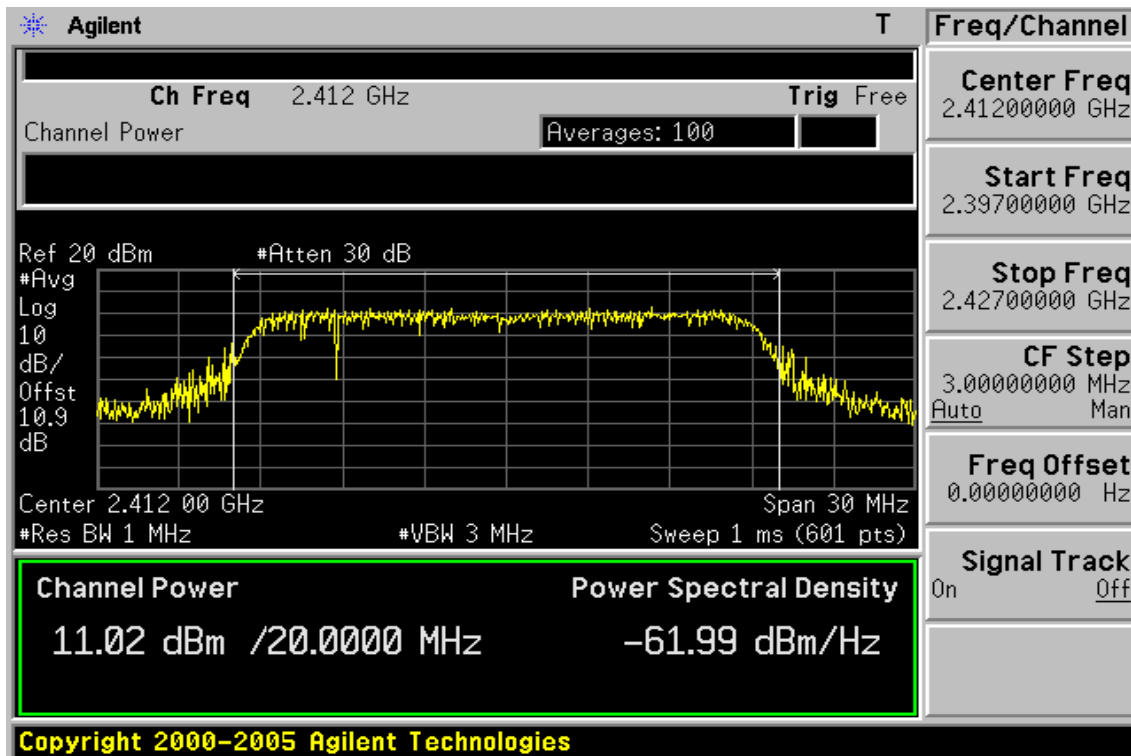


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Peak Power Output Plot (CH High)



Average Power Output Plot (CH Low)



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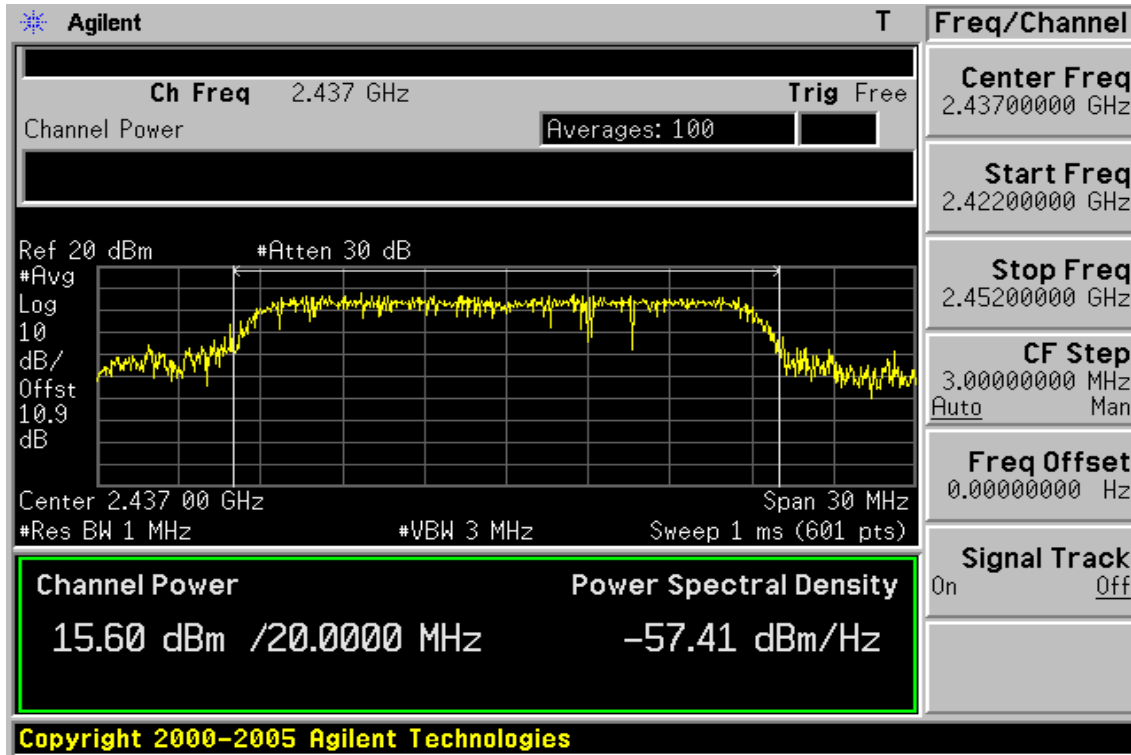
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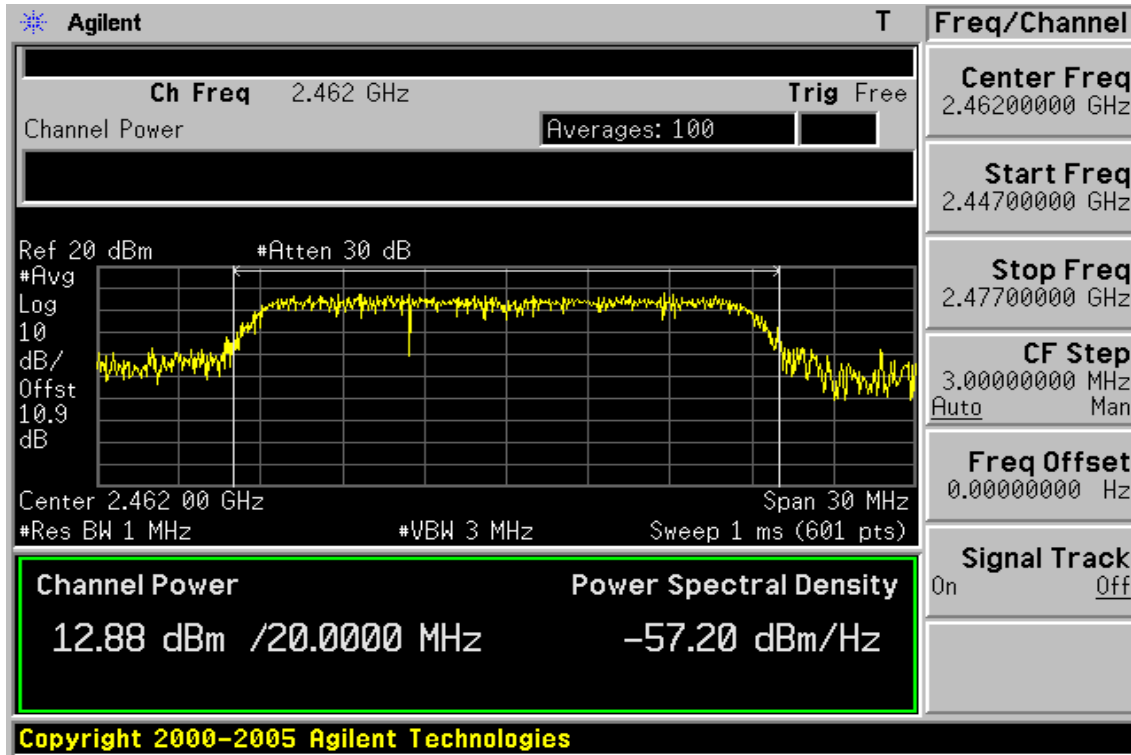
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Average Power Output Plot (CH Mid)



Average Power Output Plot (CH High)



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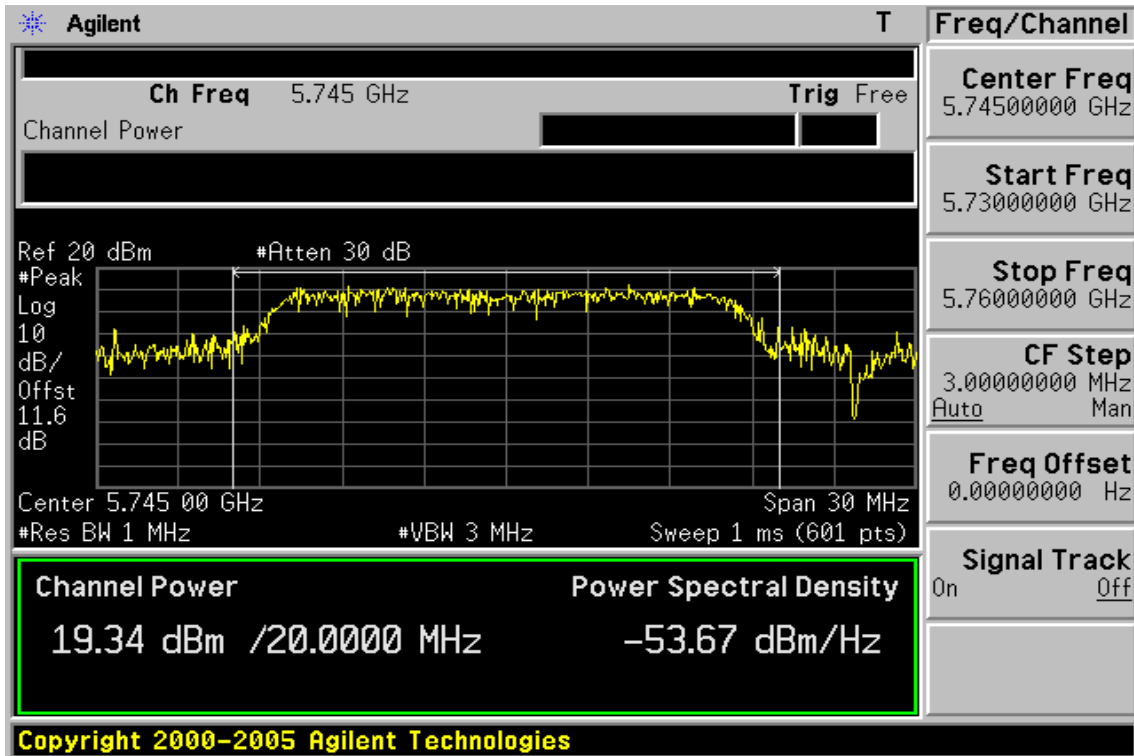
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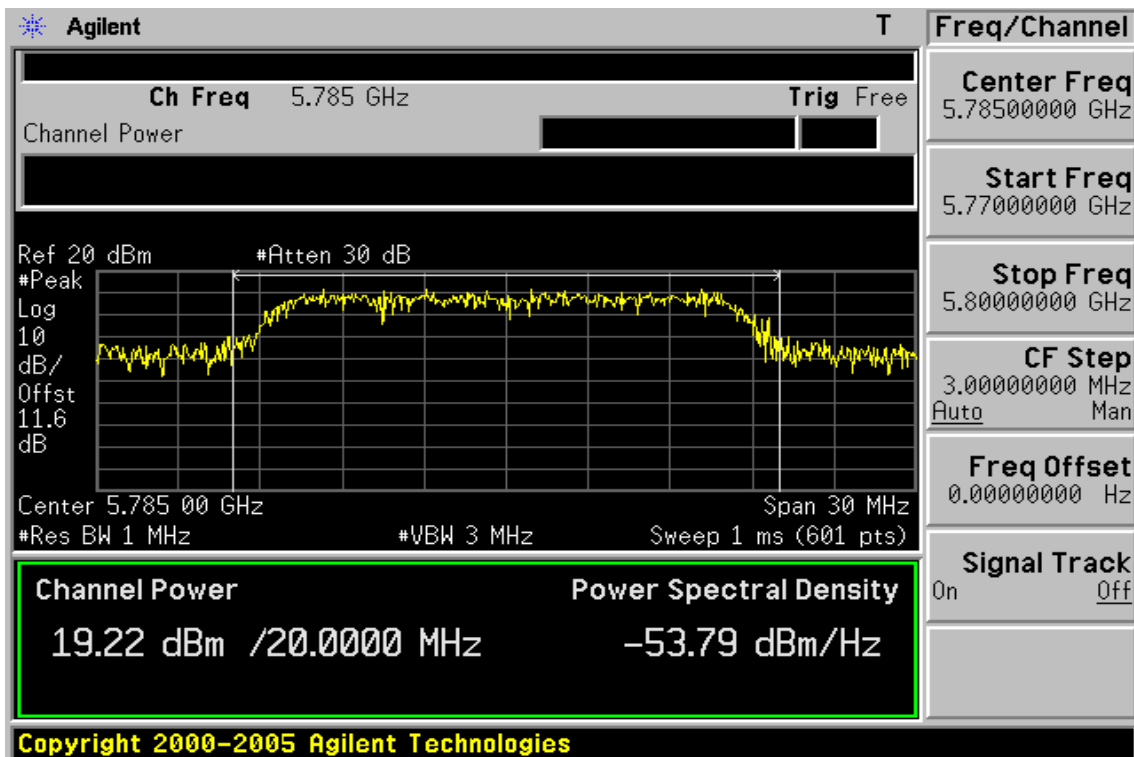
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802.11a, 6Mbps
Peak Power Output Plot (CH Low)



Peak Power Output Plot (CH Mid)



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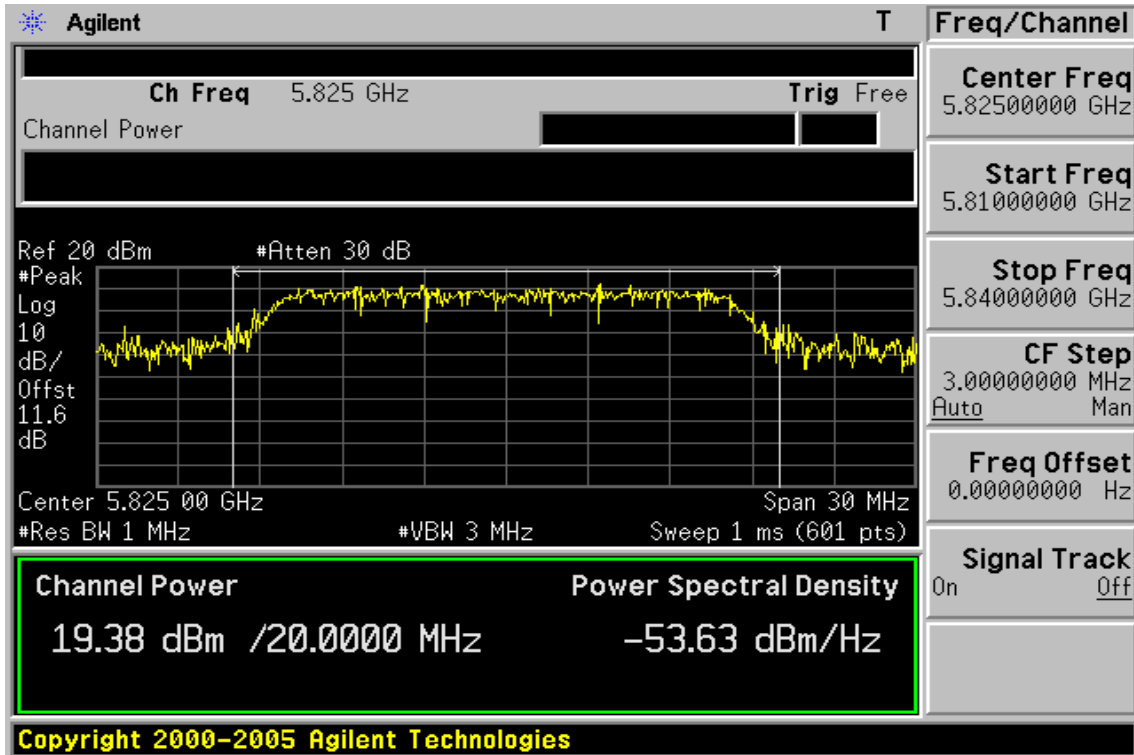
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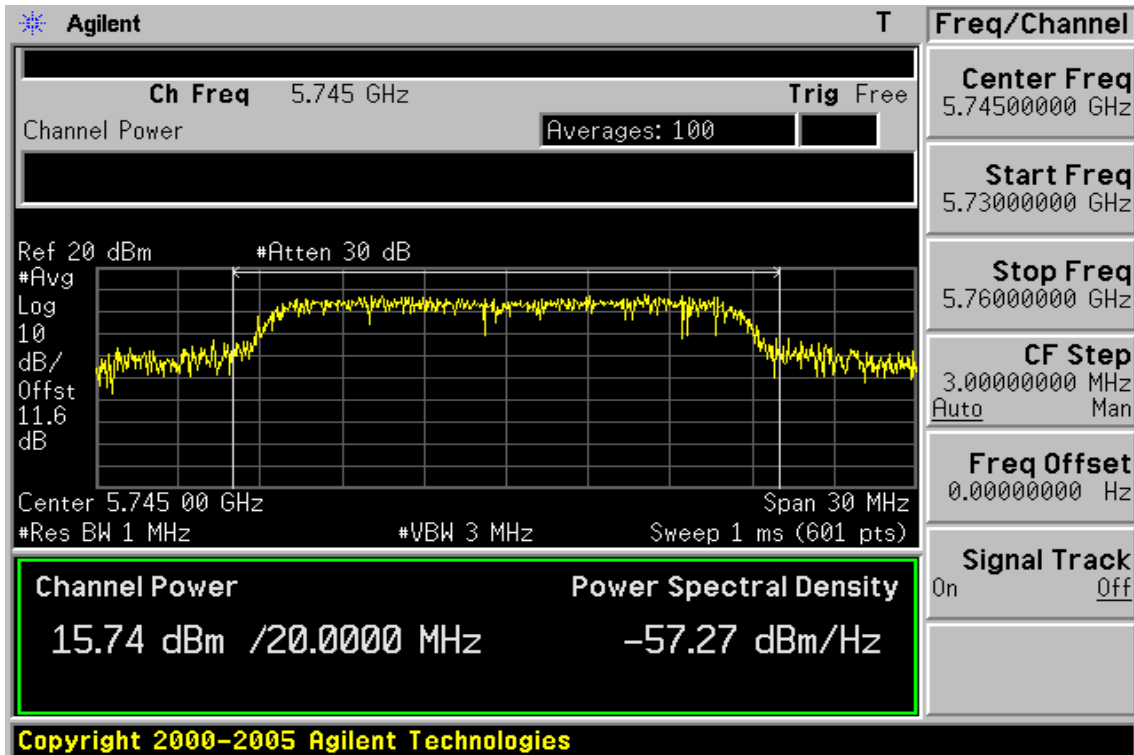
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Peak Power Output Plot (CH High)



Average Power Output Plot (CH Low)



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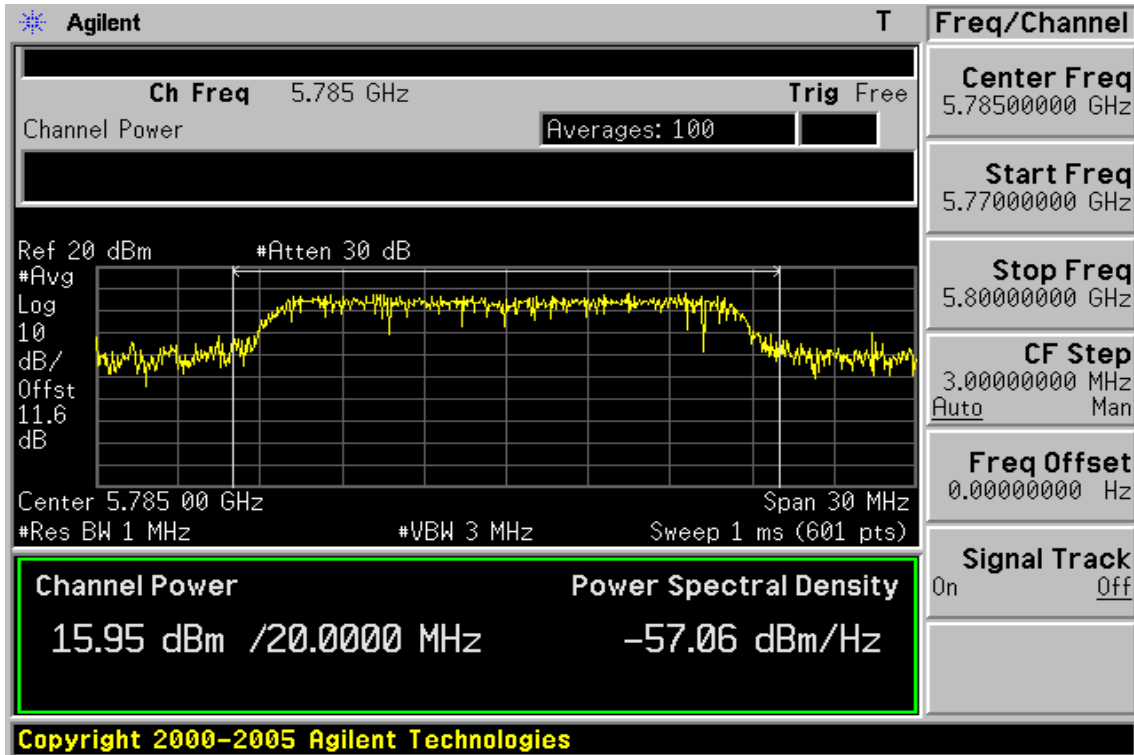
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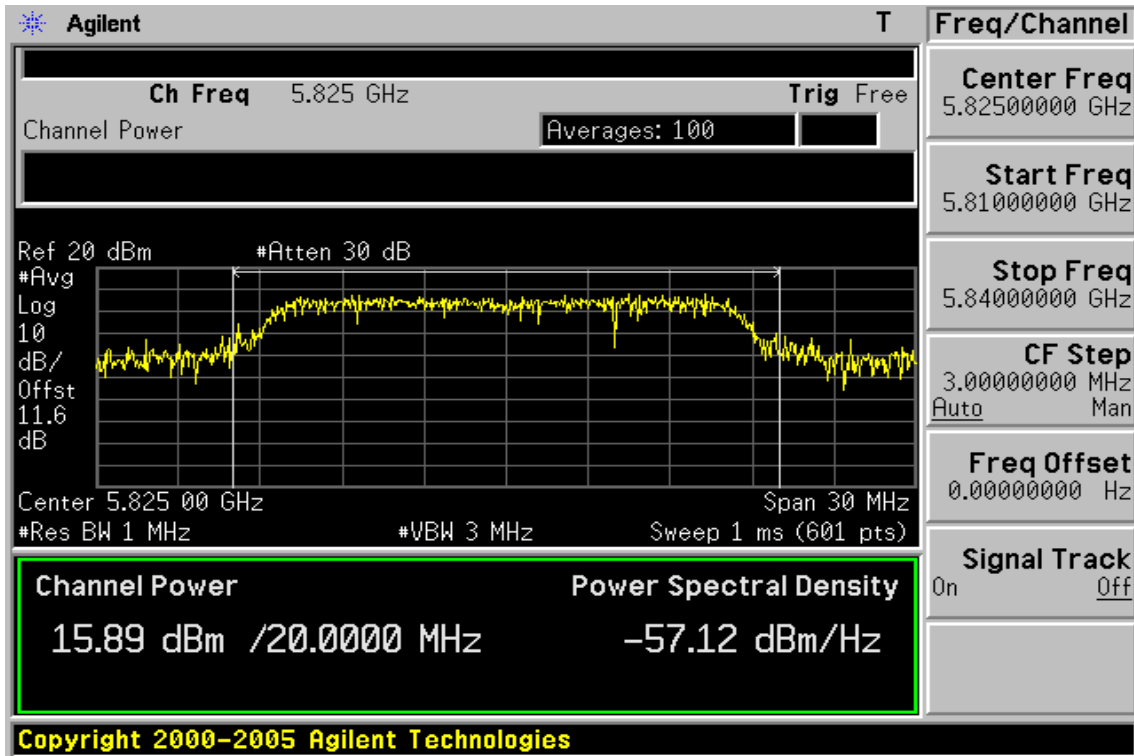
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Average Power Output Plot (CH Mid)



Average Power Output Plot (CH High)



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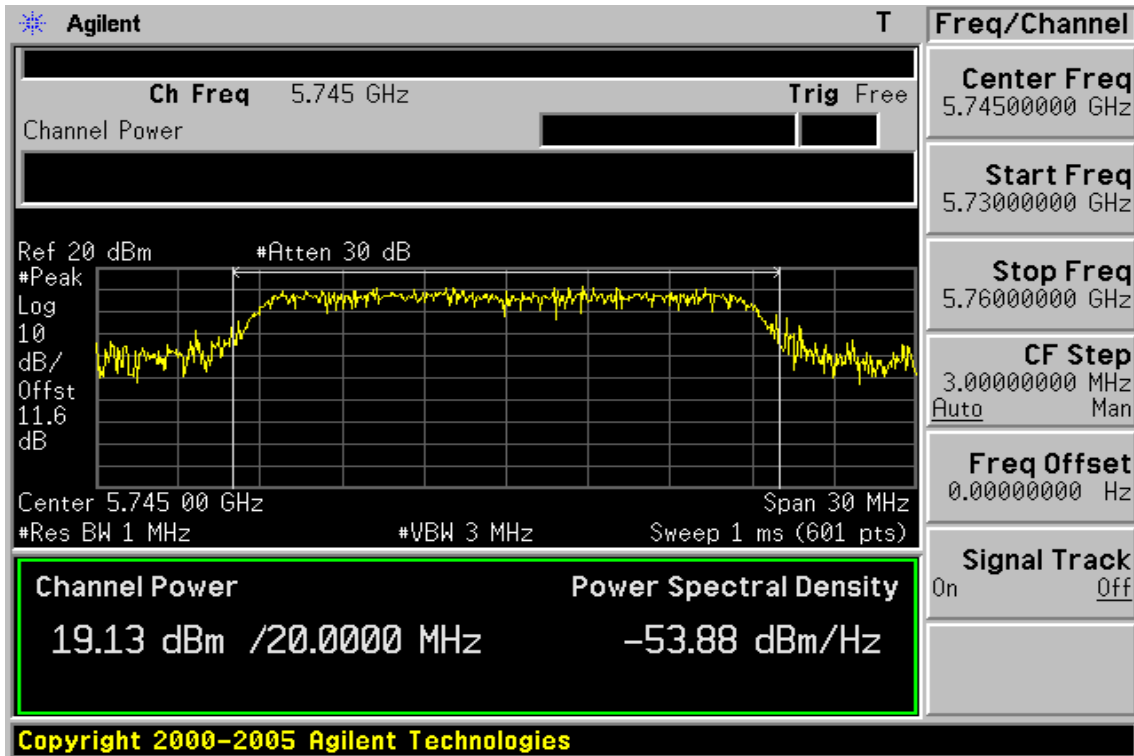
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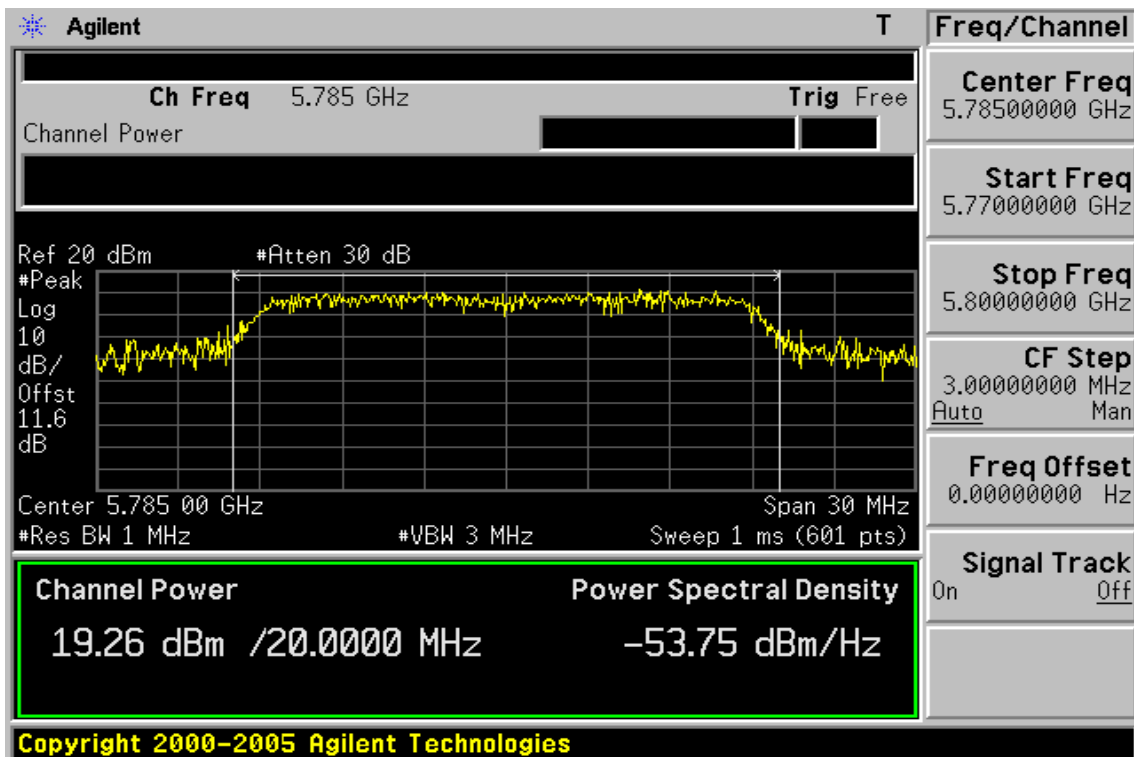
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802.11n(5GHz)_20M, 6.5Mbps
Peak Power Output Plot (CH Low)



Peak Power Output Plot (CH Mid)



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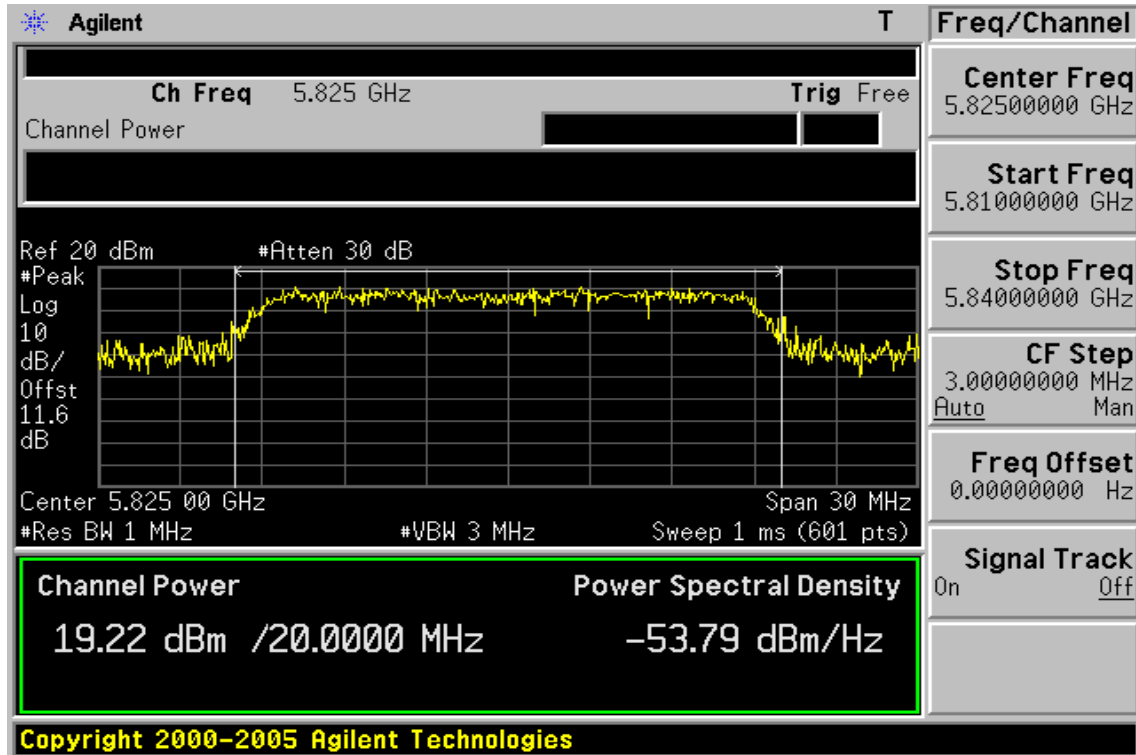
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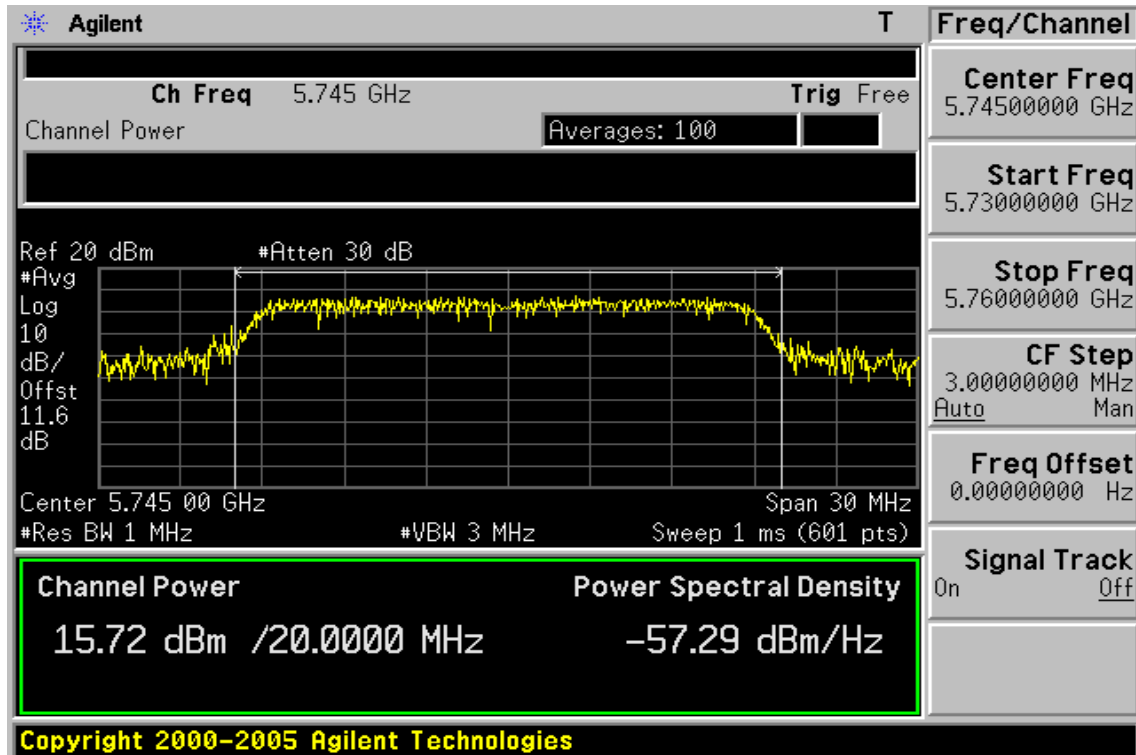
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Peak Power Output Plot (CH High)



Average Power Output Plot (CH Low)



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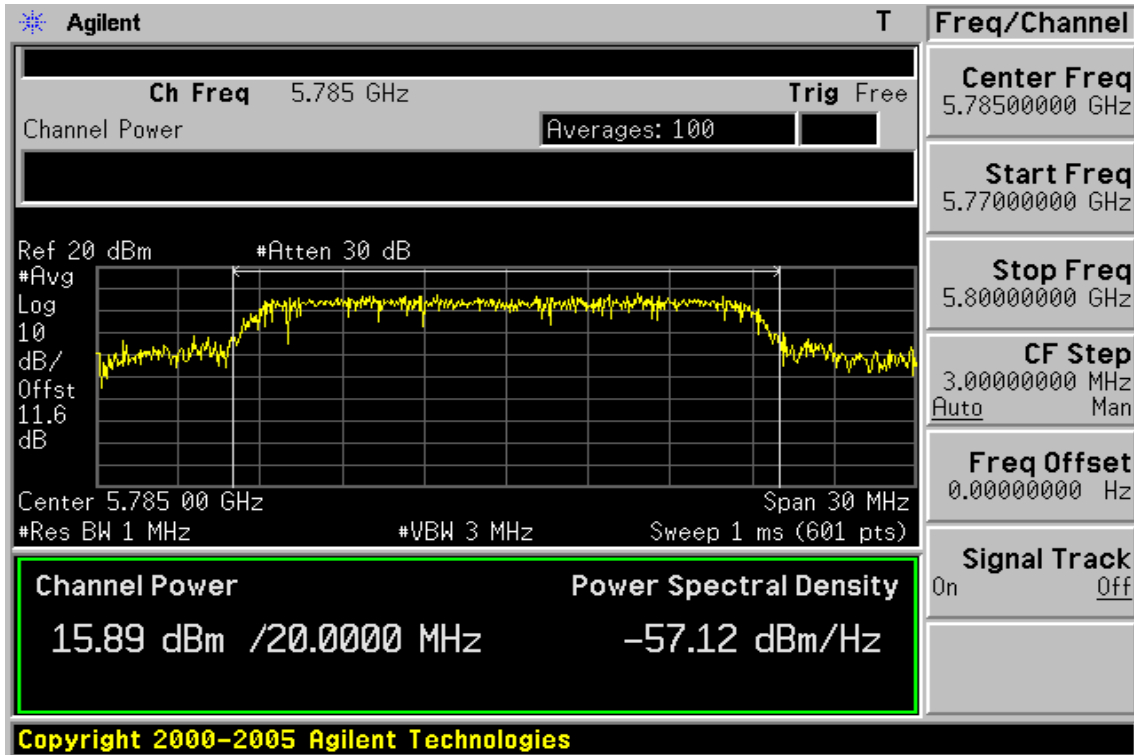
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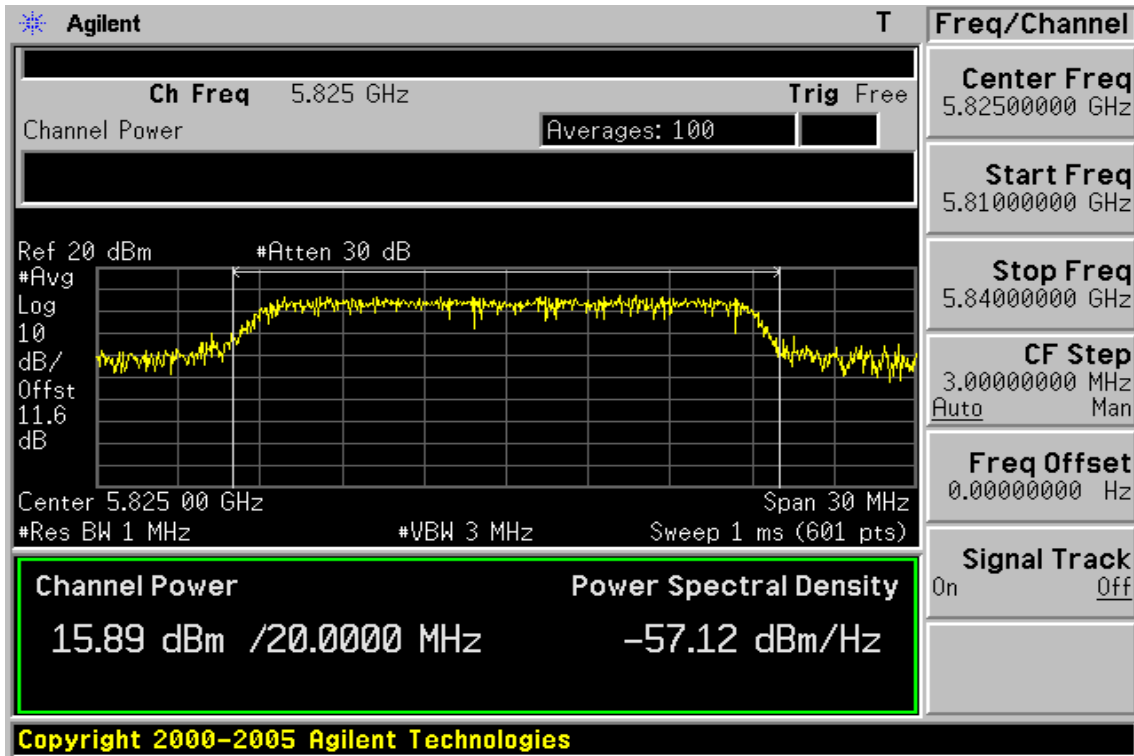
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Average Power Output Plot (CH Mid)



Average Power Output Plot (CH High)



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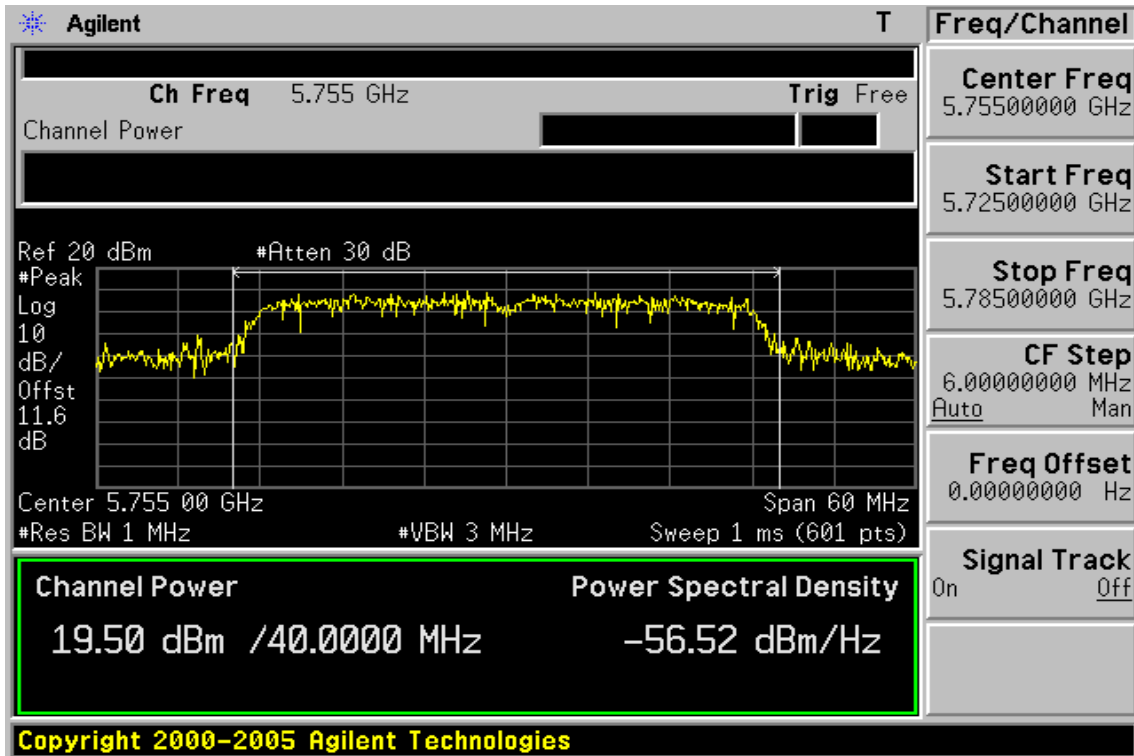
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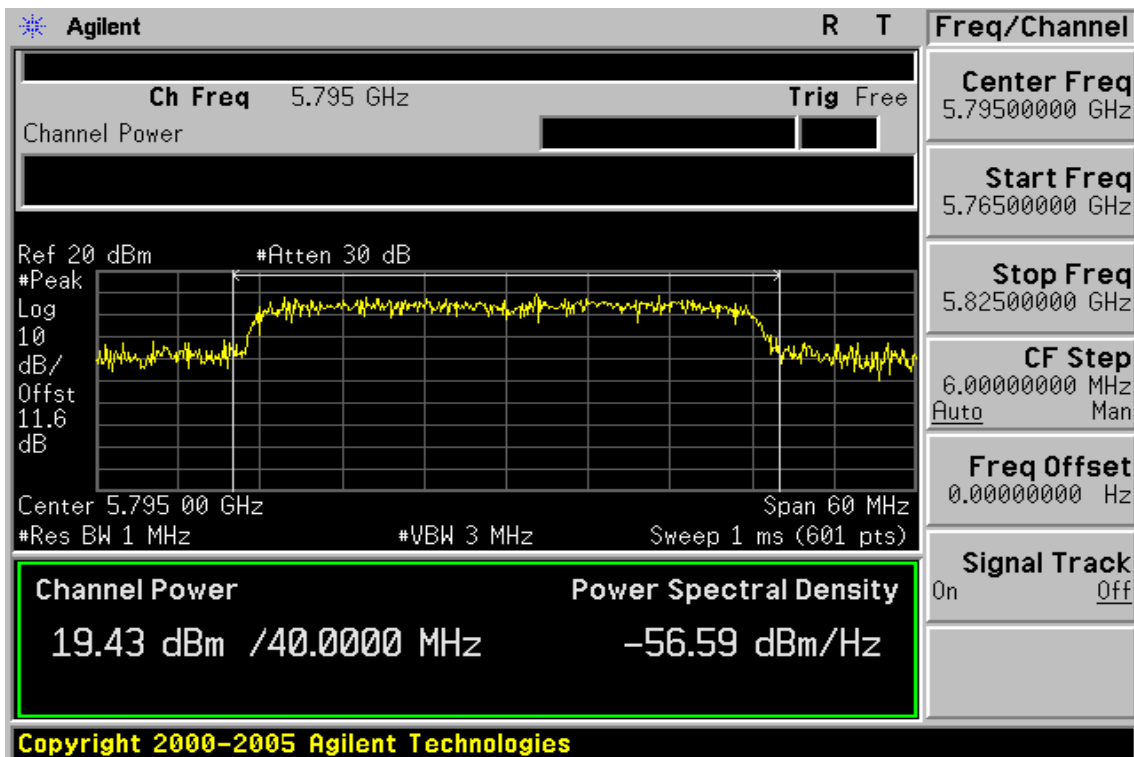
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802.11n(5GHz)_40M,13.5Mbps
Peak Power Output Plot (CH Low)



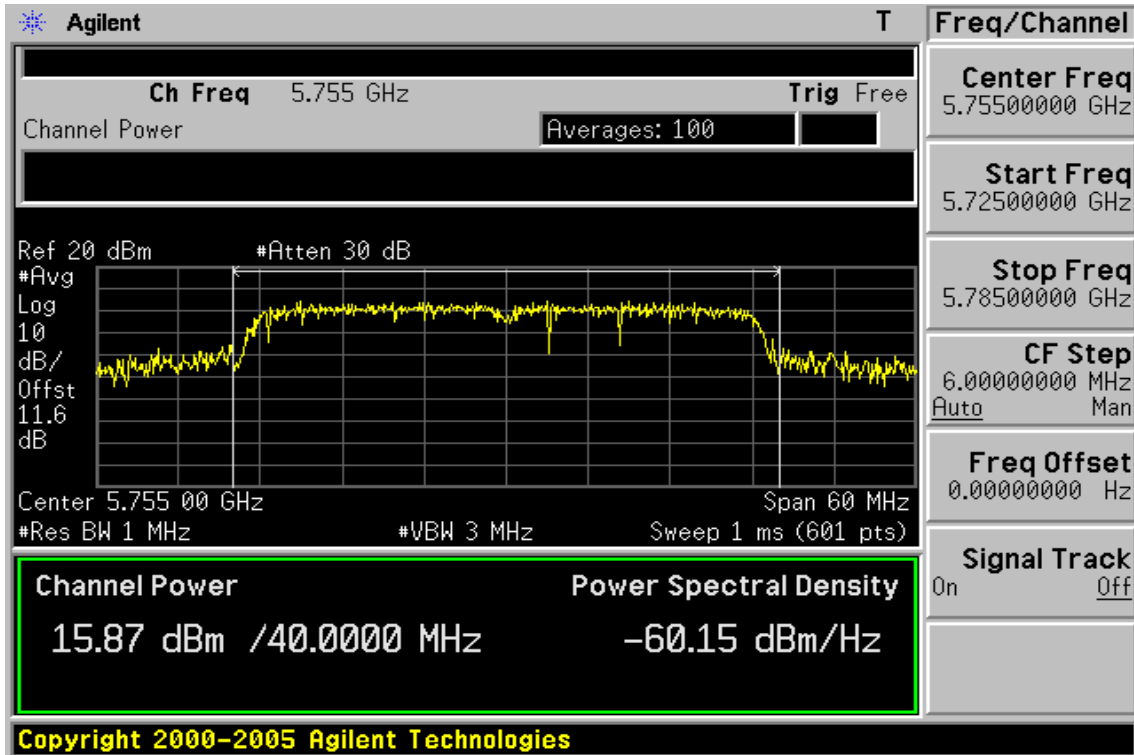
Peak Power Output Plot (CH High)



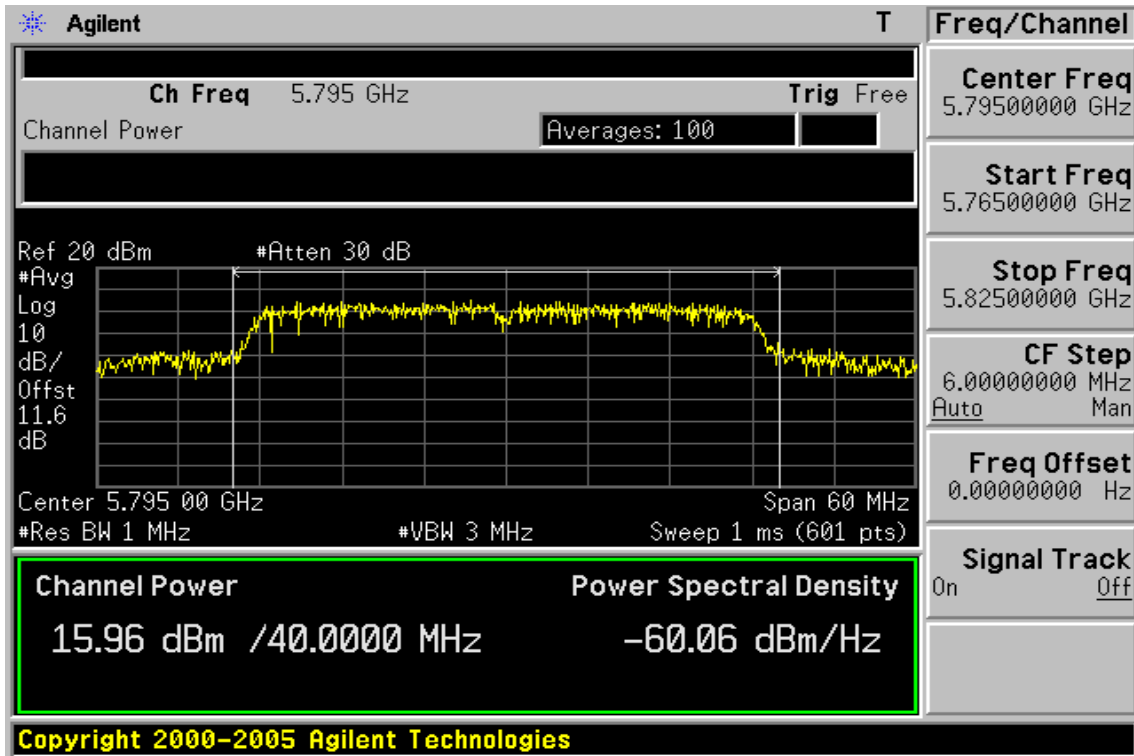
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Average Power Output Plot (CH Low)



Average Power Output Plot (CH High)



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8 6dB BANDWIDTH

8.1 Standard Applicable:

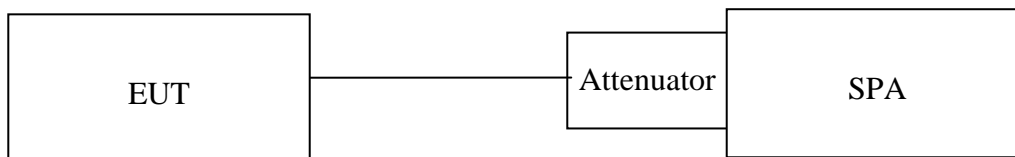
According to §15.247(a)(2), Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500kHz.

According to RSS 210 issue 8: 2010Annex 8.2. Systems employing digital modulation techniques (which includes direct sequence) can now be certified under RSS-210 provided they comply with the following requirements: The minimum 6 dB bandwidth shall be at least 500 kHz.

8.2 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 |

8.3 Test Set-up:



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8.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW = 100 KHz, VBW = 3*RBW, Span = 30M/50MHz, Sweep=auto, the setting on spectrum is adjusted based on the procedure as guide in 7.1 option 1 of KDB558074.
4. Mark the peak frequency and -6dB (upper and lower) frequency.
5. Repeat above procedures until all frequency measured was complete.

8.5 Measurement Result:

802.11b

| Frequency (MHz) | Bandwidth (MHz) | Bandwidth (KHz) | Result |
|-----------------|-----------------|-----------------|--------|
| 2412 | 9.067 | > 500 | PASS |
| 2437 | 8.091 | > 500 | PASS |
| 2462 | 8.117 | > 500 | PASS |

802.11g

| Frequency (MHz) | Bandwidth (MHz) | Bandwidth (KHz) | Result |
|-----------------|-----------------|-----------------|--------|
| 2412 | 16.441 | > 500 | PASS |
| 2437 | 16.423 | > 500 | PASS |
| 2462 | 16.449 | > 500 | PASS |

802.11n_20M

| Frequency (MHz) | Bandwidth (MHz) | Bandwidth (KHz) | Result |
|-----------------|-----------------|-----------------|--------|
| 2412 | 17.645 | > 500 | PASS |
| 2437 | 17.638 | > 500 | PASS |
| 2462 | 17.648 | > 500 | PASS |

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802.11a

| Frequency (MHz) | Bandwidth (MHz) | Bandwidth (KHz) | Result |
|--------------------|--------------------|--------------------|--------|
| 5745 | 16.424 | > 500 | PASS |
| 5785 | 16.394 | > 500 | PASS |
| 5825 | 16.410 | > 500 | PASS |

802.11n (5GHz)_20M

| Frequency (MHz) | Bandwidth (MHz) | Bandwidth (KHz) | Result |
|--------------------|--------------------|--------------------|--------|
| 5745 | 17.608 | > 500 | PASS |
| 5785 | 17.603 | > 500 | PASS |
| 5825 | 17.600 | > 500 | PASS |

802.11n (5GHz)_40M

| Frequency (MHz) | Bandwidth (MHz) | Bandwidth (KHz) | Result |
|--------------------|--------------------|--------------------|--------|
| 5755 | 35.180 | > 500 | PASS |
| 5795 | 35.024 | > 500 | PASS |

* Note: Offset 10.9dB for 2.4G 802.11b/g/n_20;

Offset 11.6 dB for 5G 802.11a/n_20/n_40 .

*Refer to next page for plots

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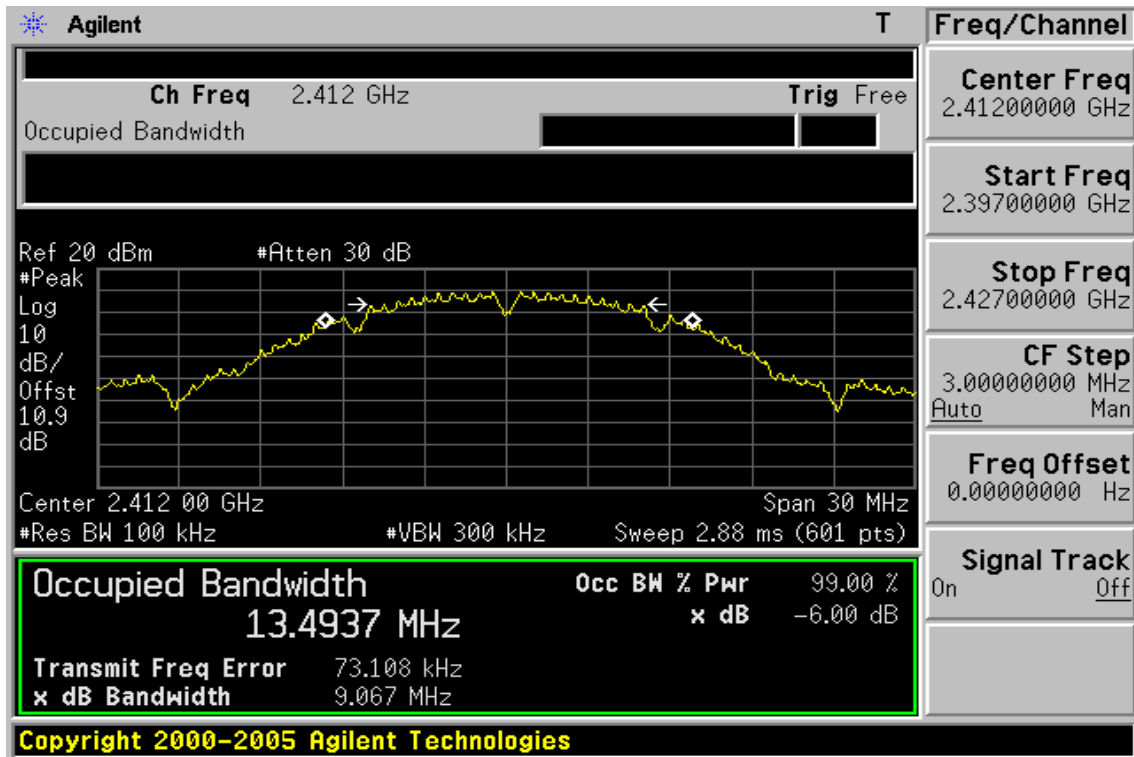
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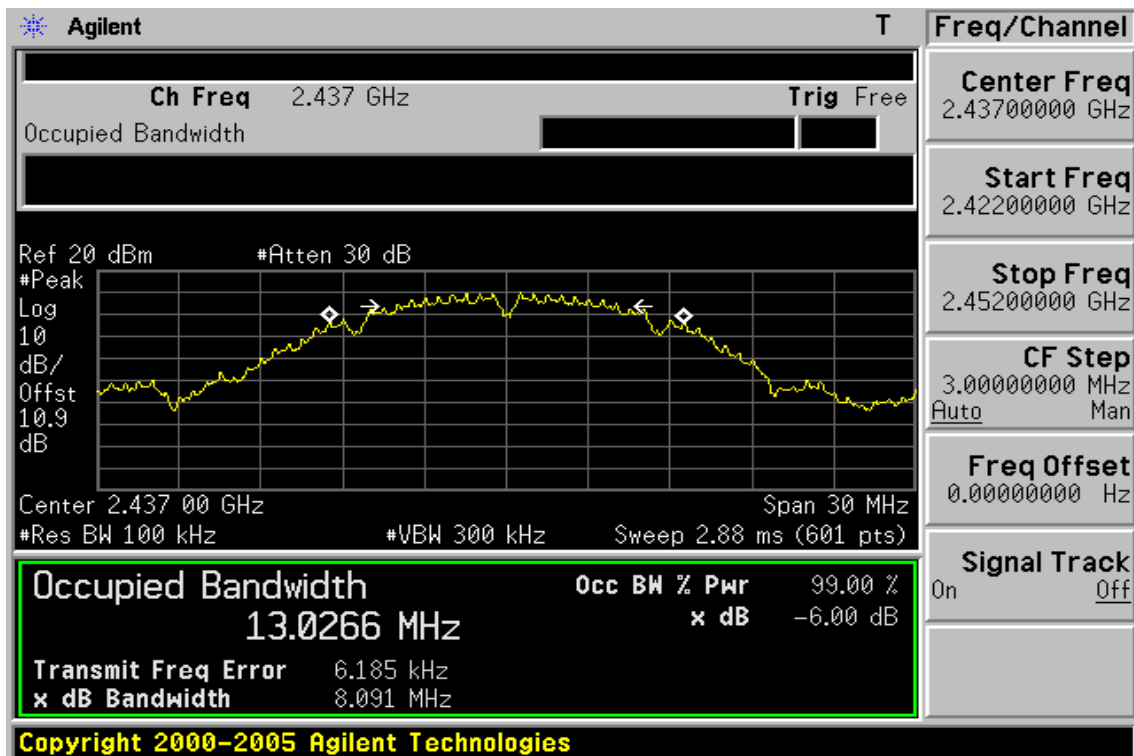
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802.11b

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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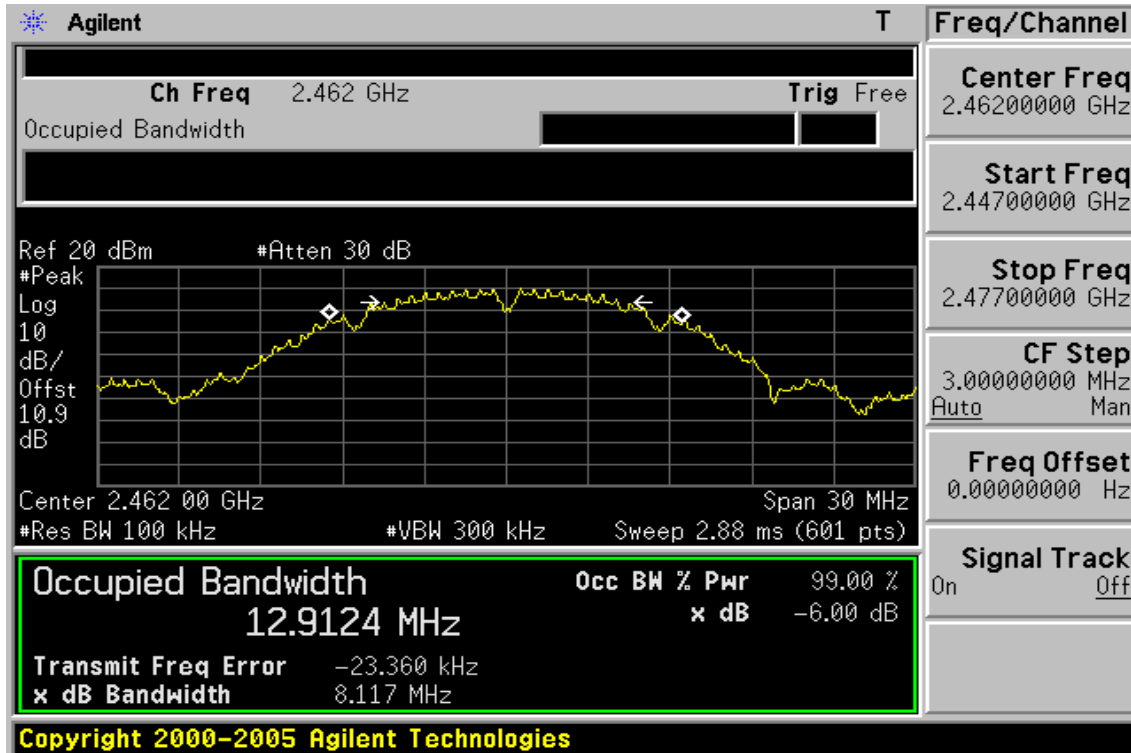
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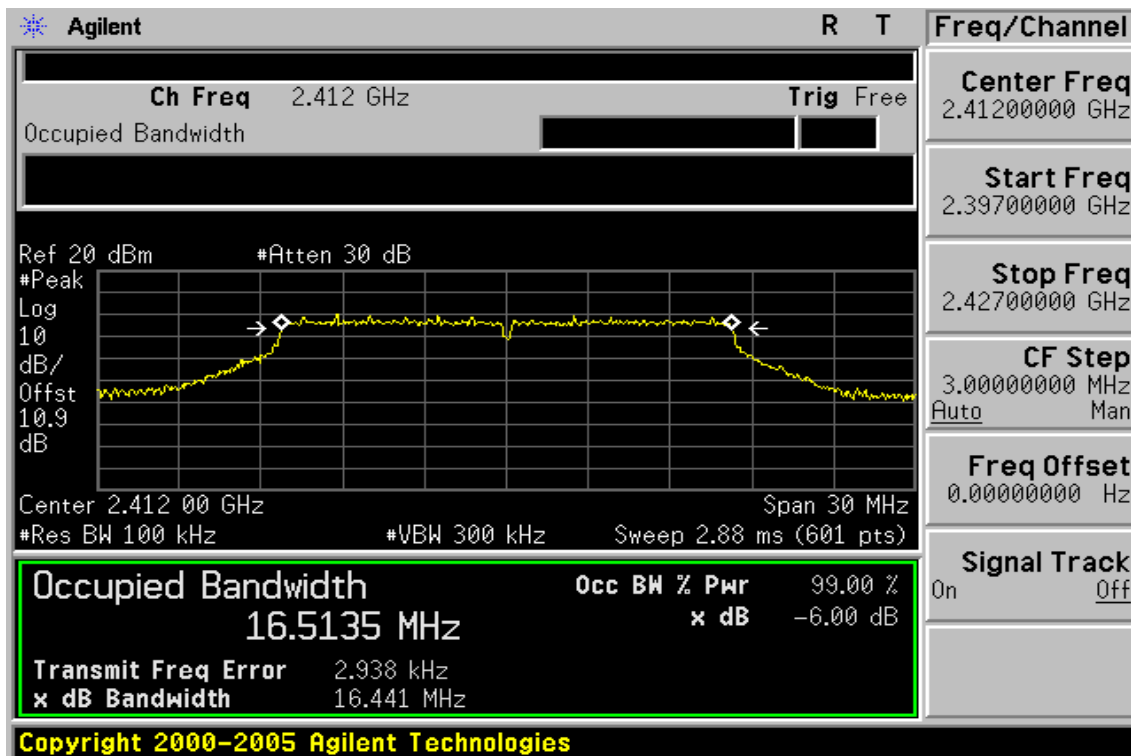
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6dB Band Width Test Data CH-High



802.11g

6dB Band Width Test Data CH-Low



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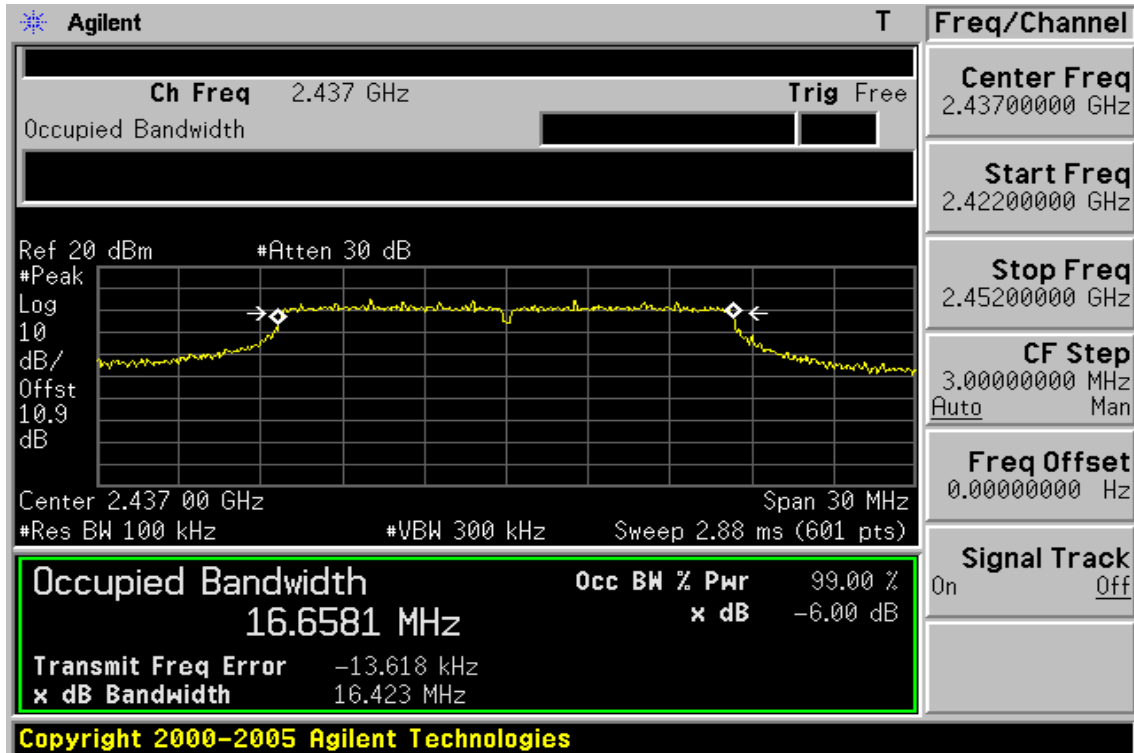
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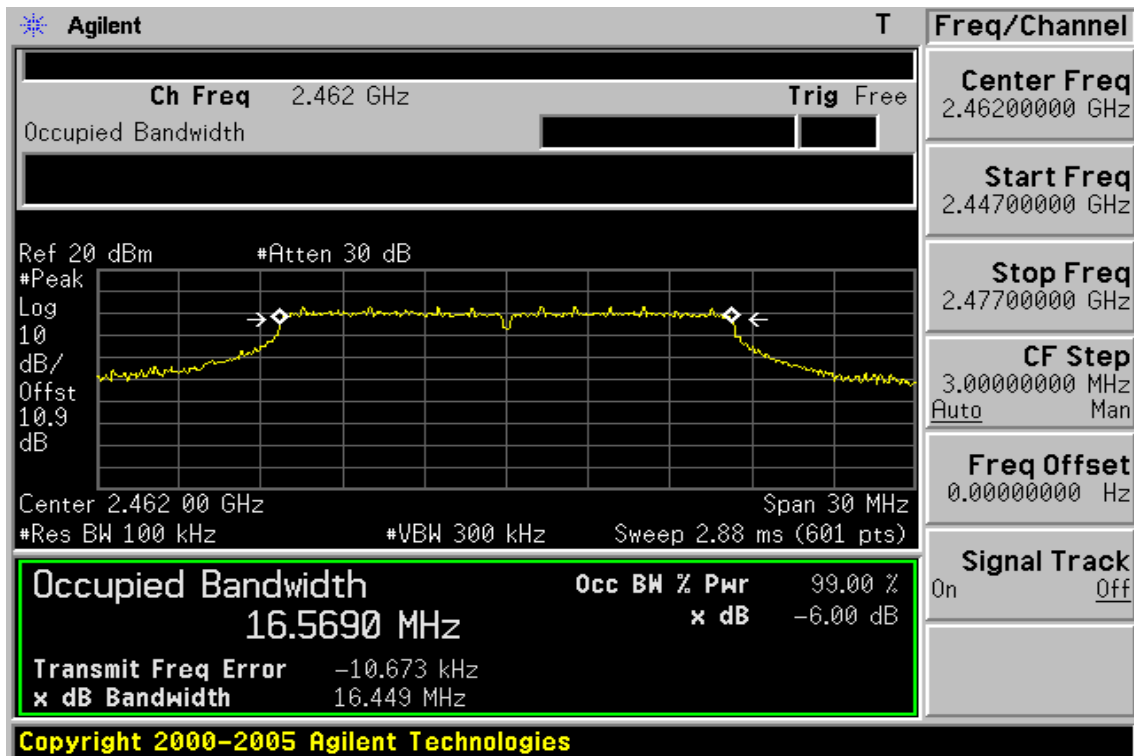
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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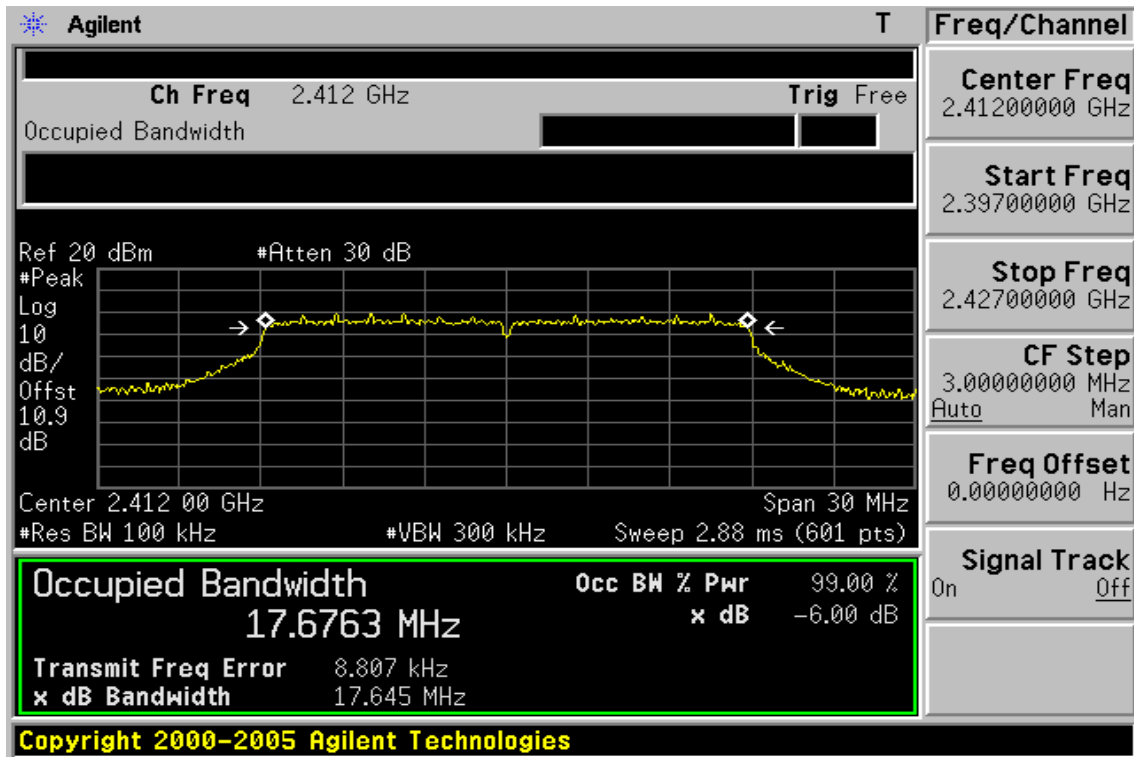
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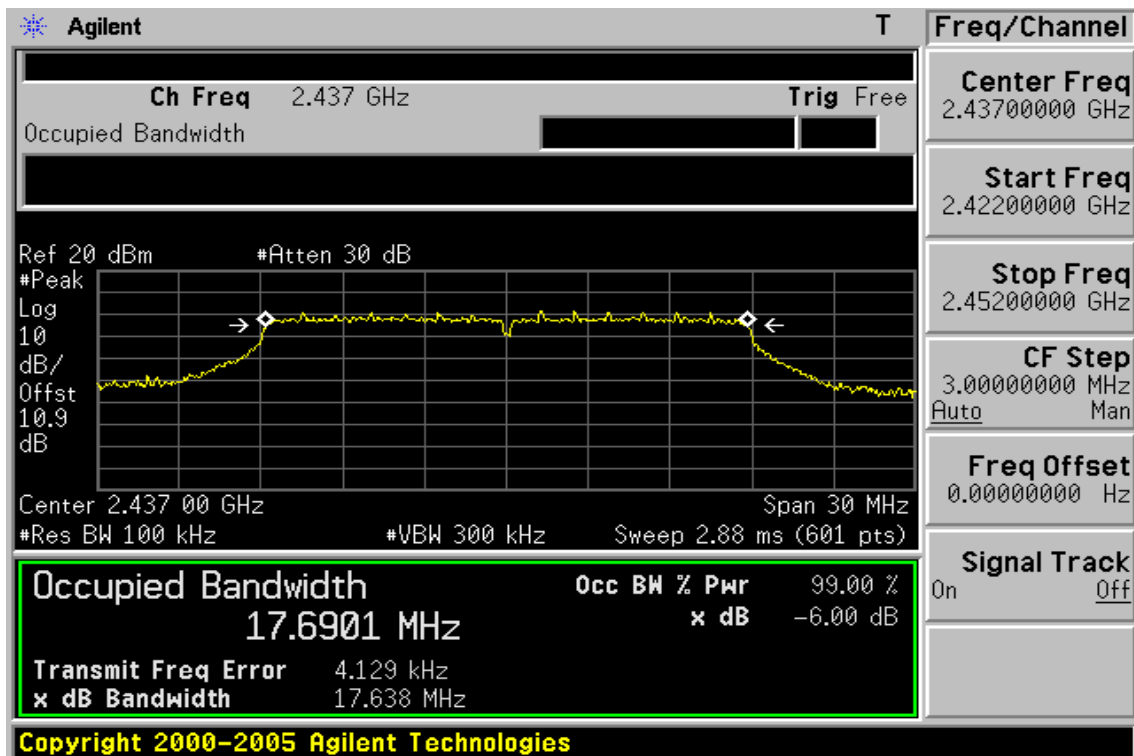
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802.11n_20M

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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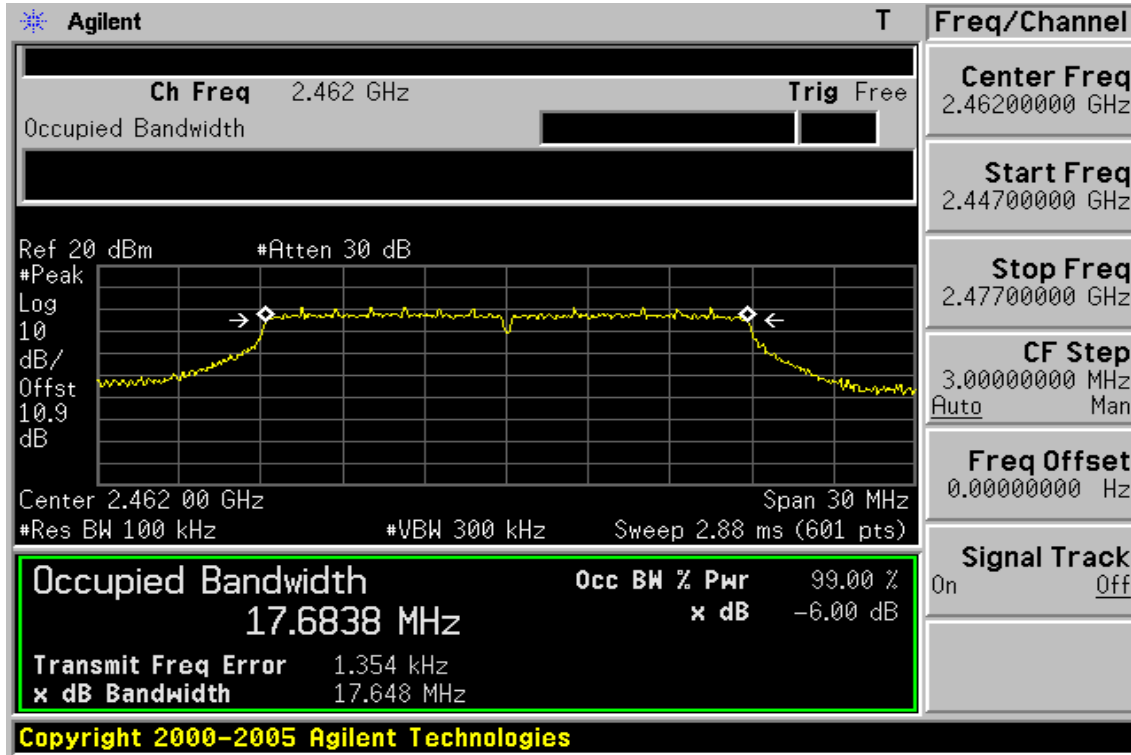
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6dB Band Width Test Data CH-High



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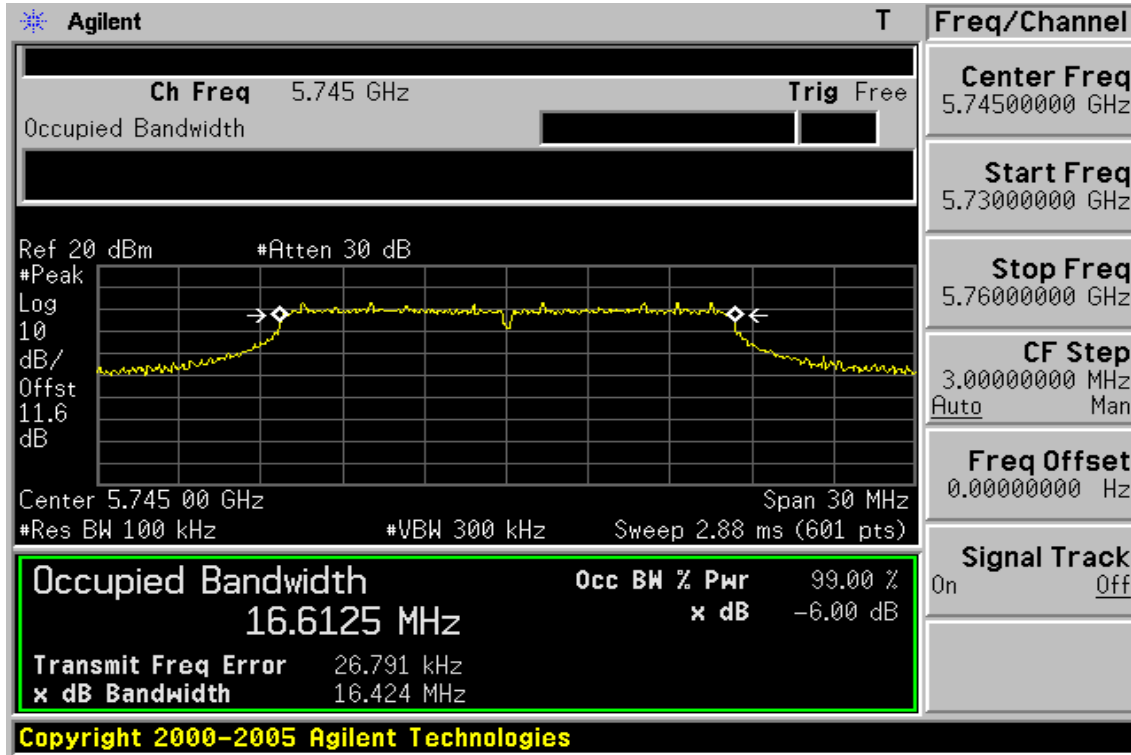
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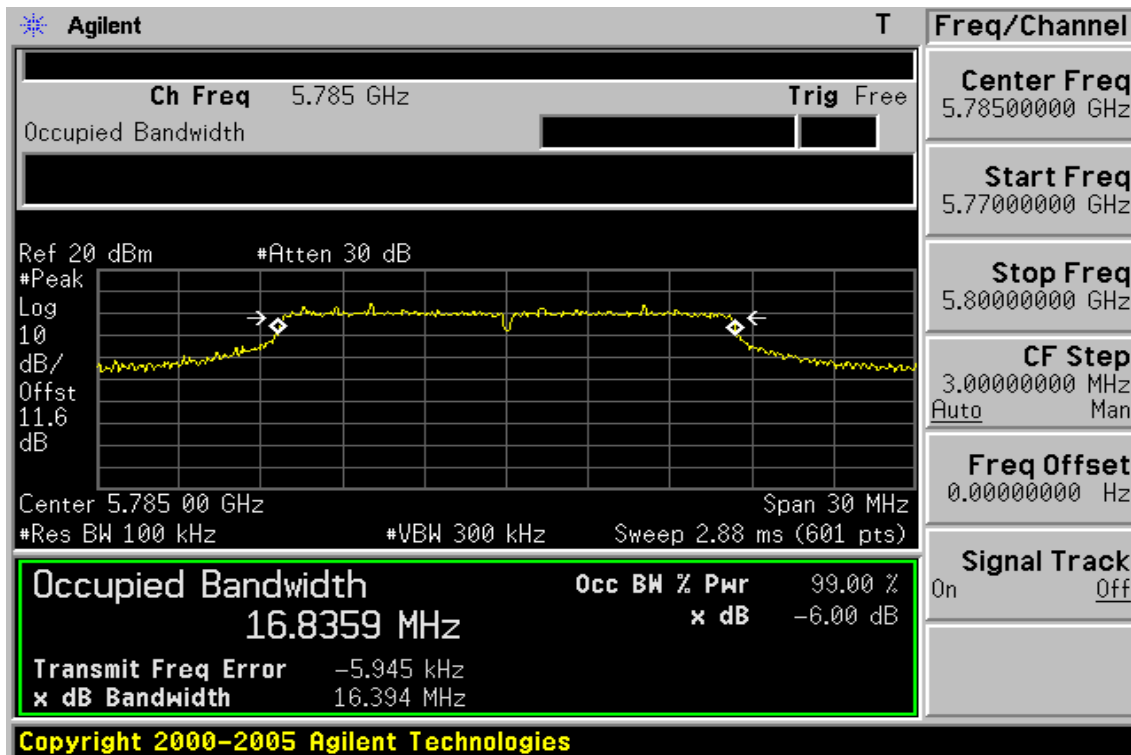
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802.11a

6dB Band Width Test Data CH-Low

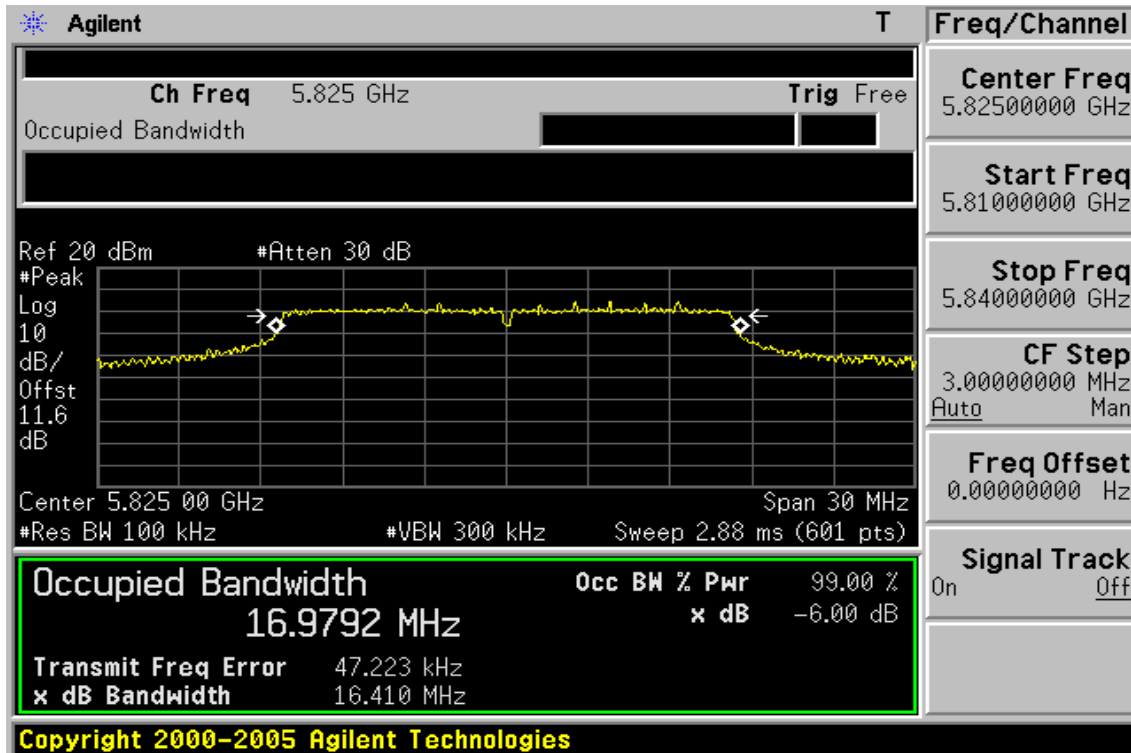


6dB Band Width Test Data CH-Mid



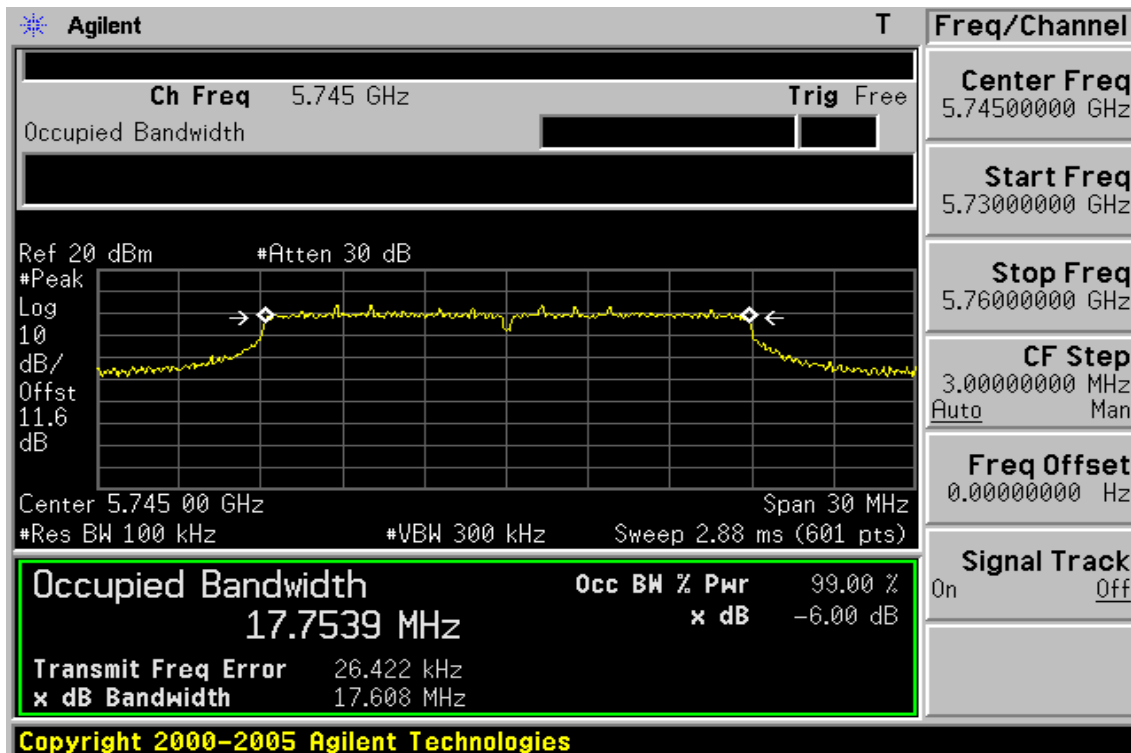
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6dB Band Width Test Data CH-High



802.11n (5GHz)_20M

6dB Band Width Test Data CH-Low



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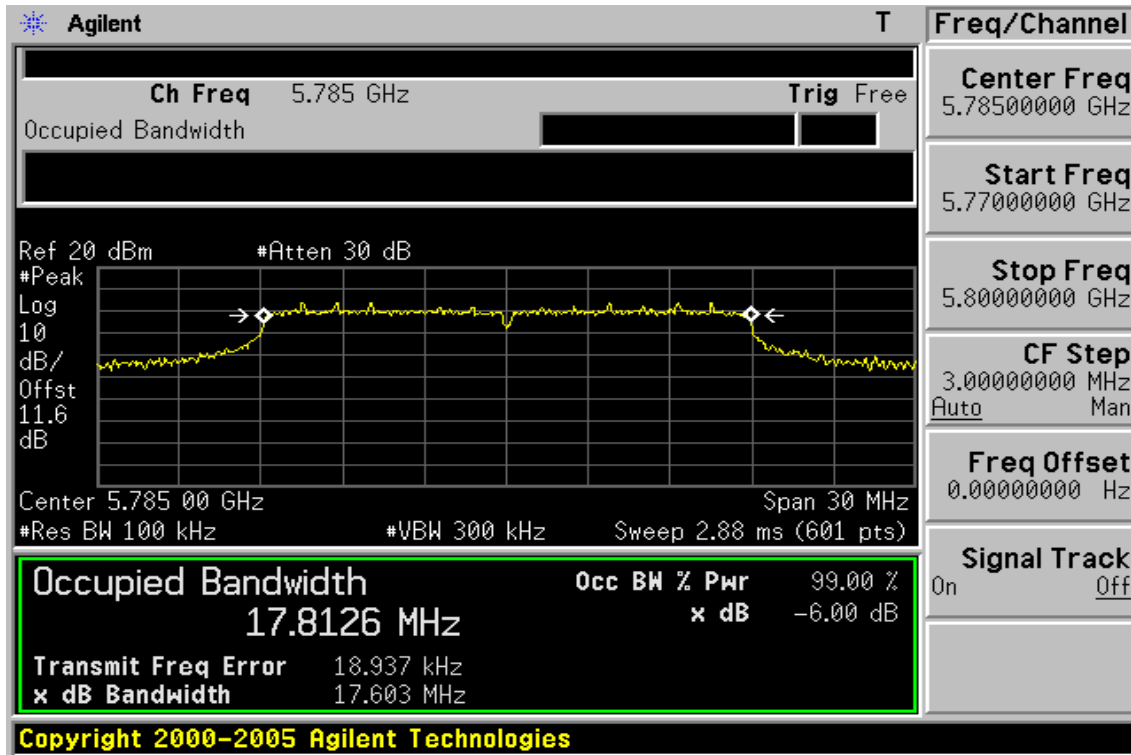
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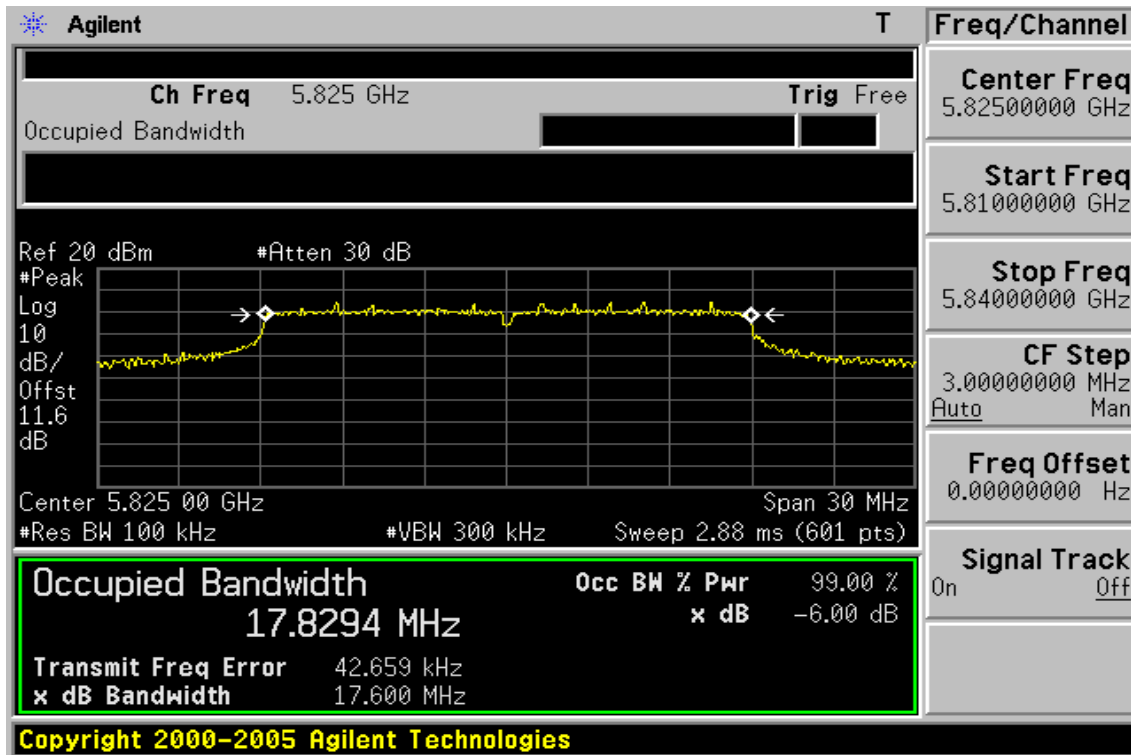
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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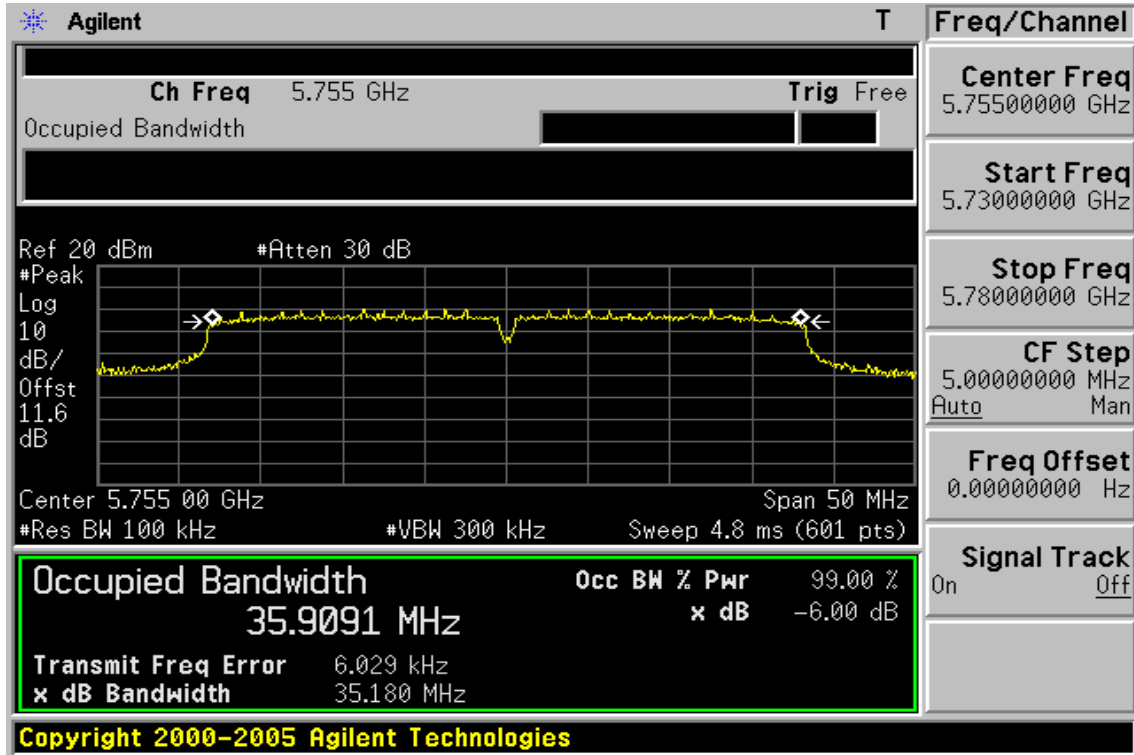
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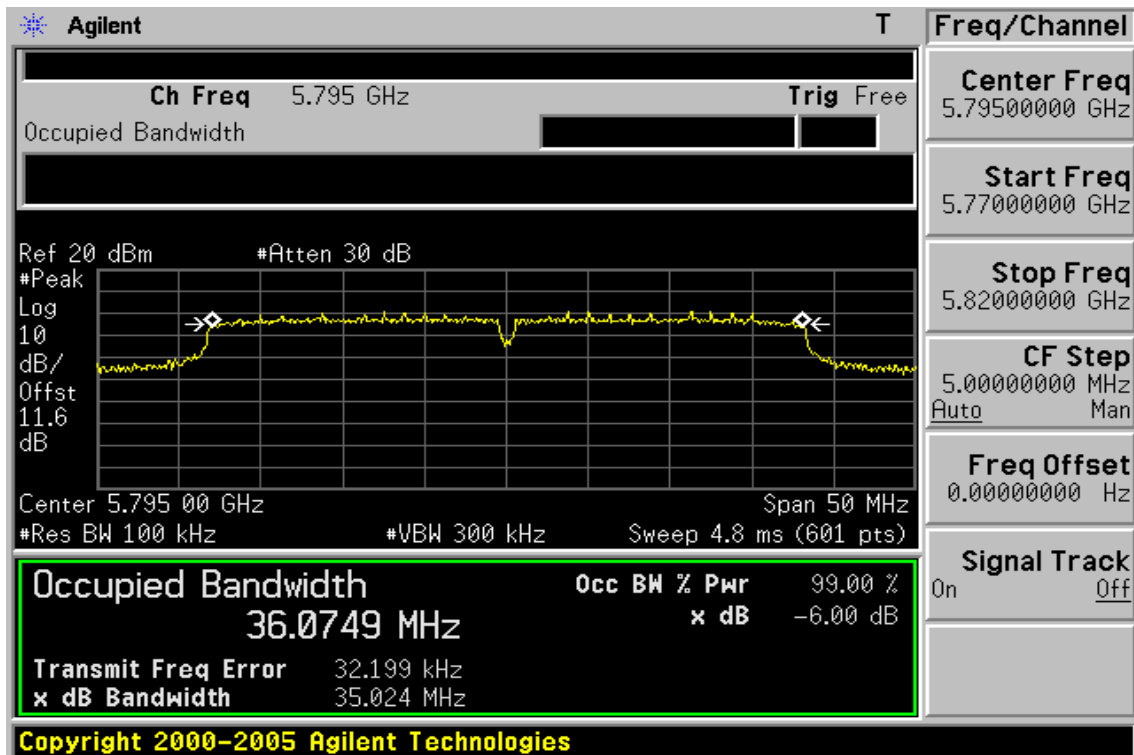
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802.11n (5GHz)_40M

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-High



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9 BAND EDGES MEASUREMENT

9.1 Standard Applicable:

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

According to RSS-Gen §7.2.5 and RSS-210 issue 8, §A8.5, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under section A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Tables 5 and 6 is not required. In addition, radiated emissions which fall in the restricted bands of Table 3 must also comply with the radiated emission limits specified in Tables 5 and 6.

9.2 Measurement Equipment Used:

9.2.1 Conducted Emission at antenna port:

Refer to section 7.2 for details.

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9.2.2 Radiated emission:

| 966 Chamber | | | | | |
|------------------------|-----------------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESCI7 | 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 |
| Pre-Amplifier | Agilent | 8447D | 2944A07676 | 01/04/2012 | 01/03/2013 |
| Pre-Amplifier | EMC Instruments Corp. | EMC0126530 | 980038 | 01/04/2012 | 01/03/2013 |
| Filter 2400-2483.5 MHz | EWT | EWT-14-0166 | M2 | 02/28/2012 | 02/27/2013 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 004 | 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 |

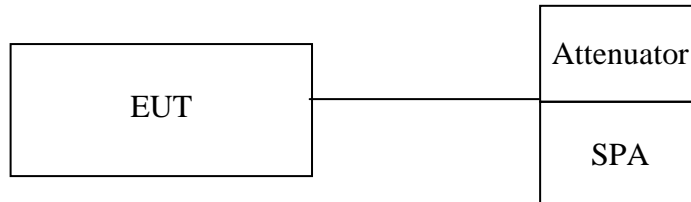
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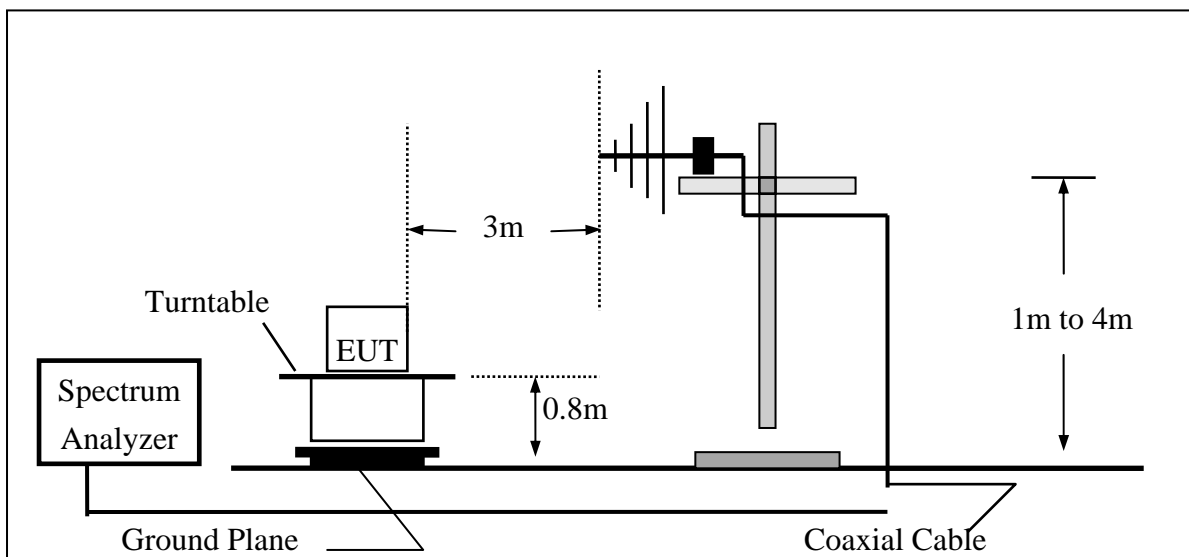
9.3 Test SET-UP:

9.3.1 Conducted Emission at antenna port:

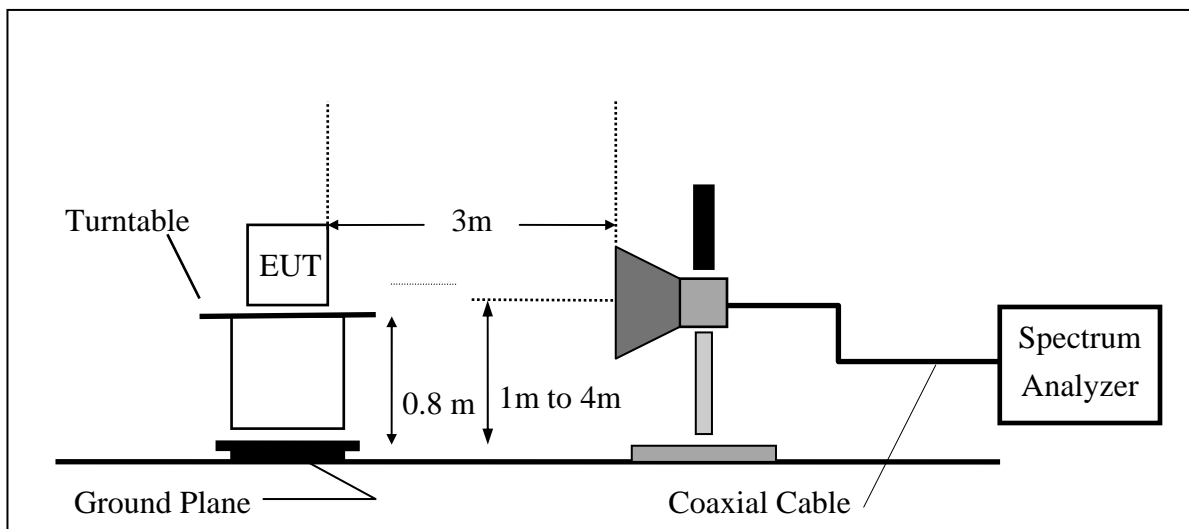


9.3.2 Radiated emission:

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



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



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9.4 Measurement Procedure:

Unwanted Emissions into Non-Restricted Frequency Bands, Measurement Procedure followed by 10.1 of KDB558074

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 start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
4. Set the spectrum analyzer as RBW, VBW=100KHz, Detector = Peak, Sweep = auto
5. Mark the highest reading of the emission as the reference level measurement.
6. Set DL as the limit = reading on marker 1 – 20dBm
7. Marker on frequency, 2.3999GHz and 2.4836GHz, and examine shall 100 KHz immediately outside the authorized (2400~2483.5) be attenuated by 20dB at least relative to the maximum emission of power.
8. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Unwanted Emission falling into Restricted Frequency Bands, Measurement Procedure followed by 10.1 of KDB558074:

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. On spectrum, following 8.1.2, and RBW = 1MHz, & Marker 2390MHz, and 2483.5MHz (Peak Measurement). Average Measurement: following 8.2 with the modification span to 1MHz, & RBW = 1MHz and peak marker function to obtain the highest reading on 2390, and 2483.5MHz.
8. Repeat above procedures until all default test channel (low, middle, and high) was complete

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9.5 Field Strength Calculation:

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

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

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

9.6 Measurement Result:

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

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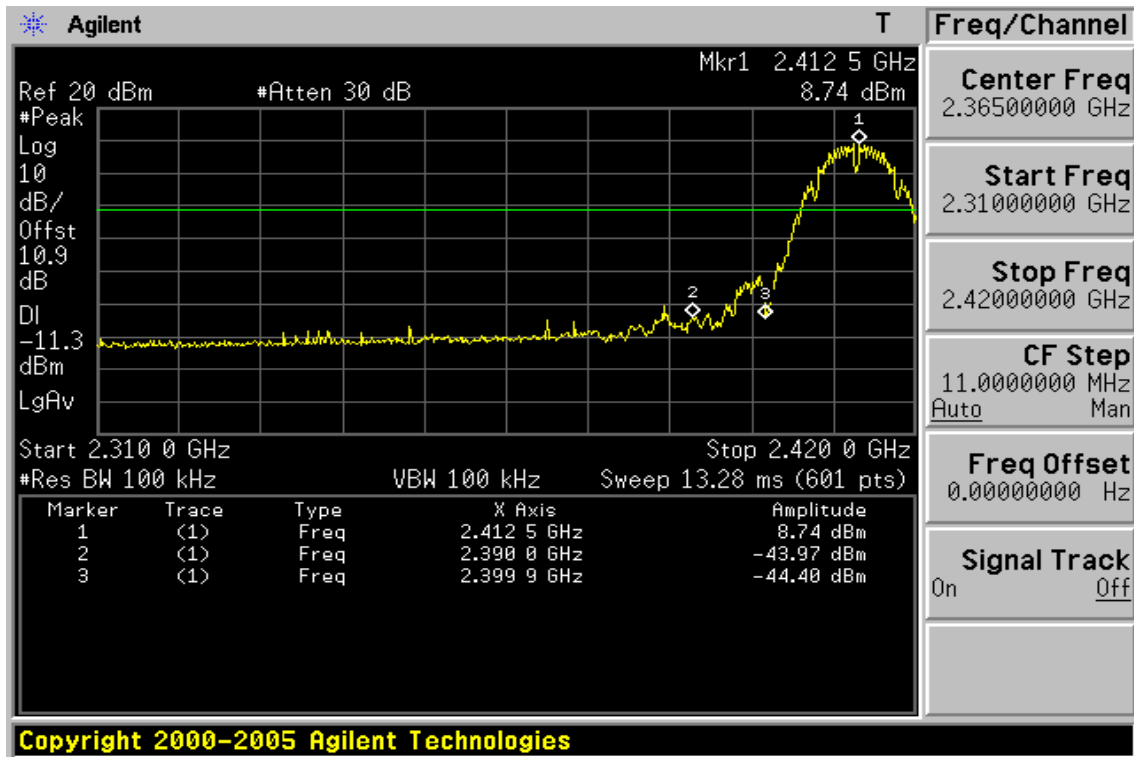
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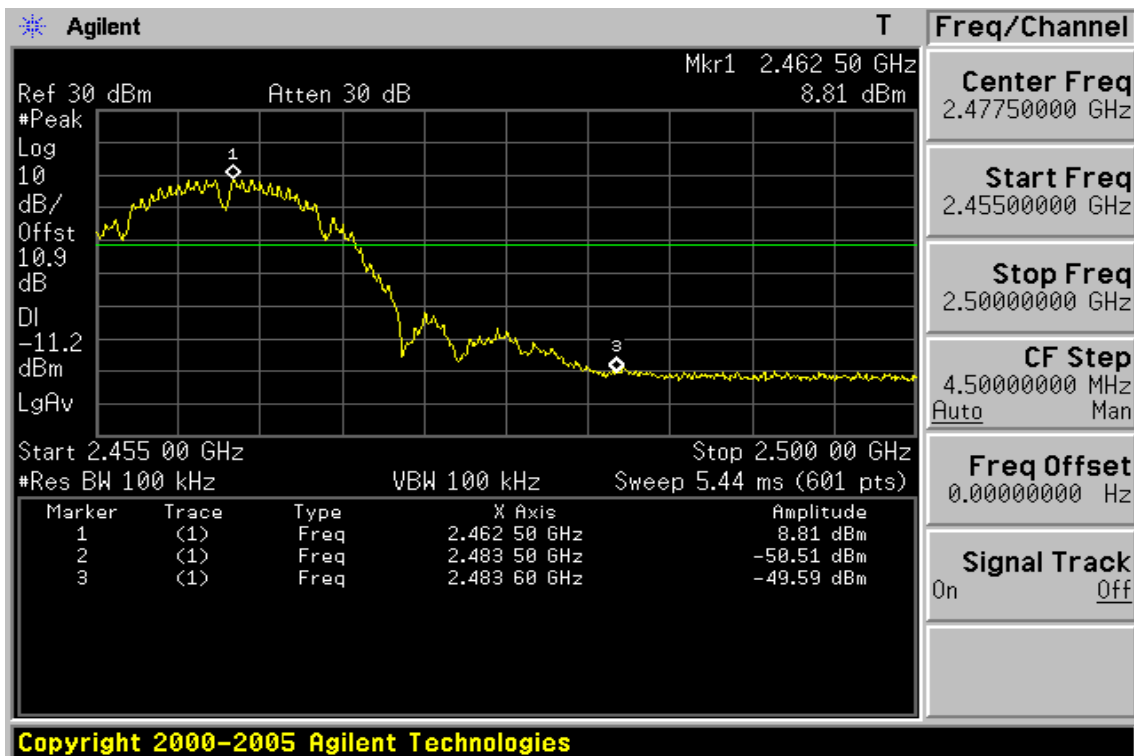
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802.11b - Unwanted Emissions into Non-Restricted Frequency Bands

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Radiated Emission

(Unwanted Emissions into Restricted Frequency Bands): 802.11 b mode

| | | | |
|-----------------------|---------------|--------------------------|-----------------|
| Operation Band | :802.11b | Test Date | :2012-12-06 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :BANDEDGE LOW | Engineer | :Marcus |
| EUT Pol. | :E2 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.

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 |
| 2390.00 | E | Average | 50.79 | 2.12 | 52.91 | 54.00 | -1.09 |
| 2390.00 | E | Peak | 58.37 | 2.12 | 60.49 | 74.00 | -13.51 |

| | | | |
|-----------------------|---------------|--------------------------|-----------------|
| Operation Band | :802.11b | Test Date | :2012-12-06 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :BANDEDGE LOW | Engineer | :Marcus |
| EUT Pol. | :E2 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.

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 |
| 2390.00 | E | Average | 50.15 | 2.74 | 52.89 | 54.00 | -1.11 |
| 2390.00 | E | Peak | 57.76 | 2.74 | 60.50 | 74.00 | -13.50 |

For measurement plot of radiation revealing the compliance of 15.209, please refer to Appendix I.

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| | | | |
|-----------------------|----------------|--------------------------|-----------------|
| Operation Band | :802.11b | Test Date | :2012-12-06 |
| Fundamental Frequency | :2462 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :BANDEDGE HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 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.

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 |
| 2483.50 | E | Average | 47.46 | 2.53 | 49.99 | 54.00 | -4.01 |
| 2483.50 | E | Peak | 55.77 | 2.53 | 58.30 | 74.00 | -15.70 |

| | | | |
|-----------------------|----------------|--------------------------|-----------------|
| Operation Band | :802.11b | Test Date | :2012-12-06 |
| Fundamental Frequency | :2462 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :BANDEDGE HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 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.

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 |
| 2483.50 | E | Average | 47.63 | 3.56 | 51.19 | 54.00 | -2.81 |
| 2483.50 | E | Peak | 56.08 | 3.56 | 59.64 | 74.00 | -14.36 |

For measurement plot of radiation revealing the compliance of 15.209, please refer to Appendix I.

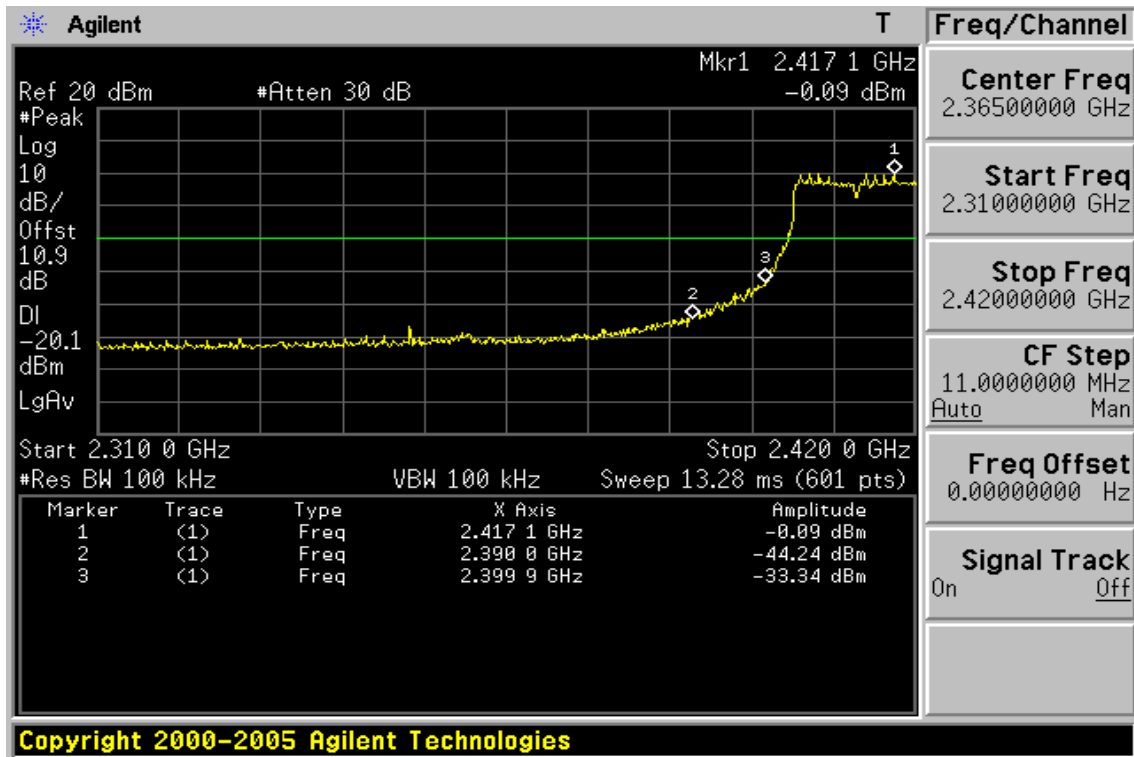
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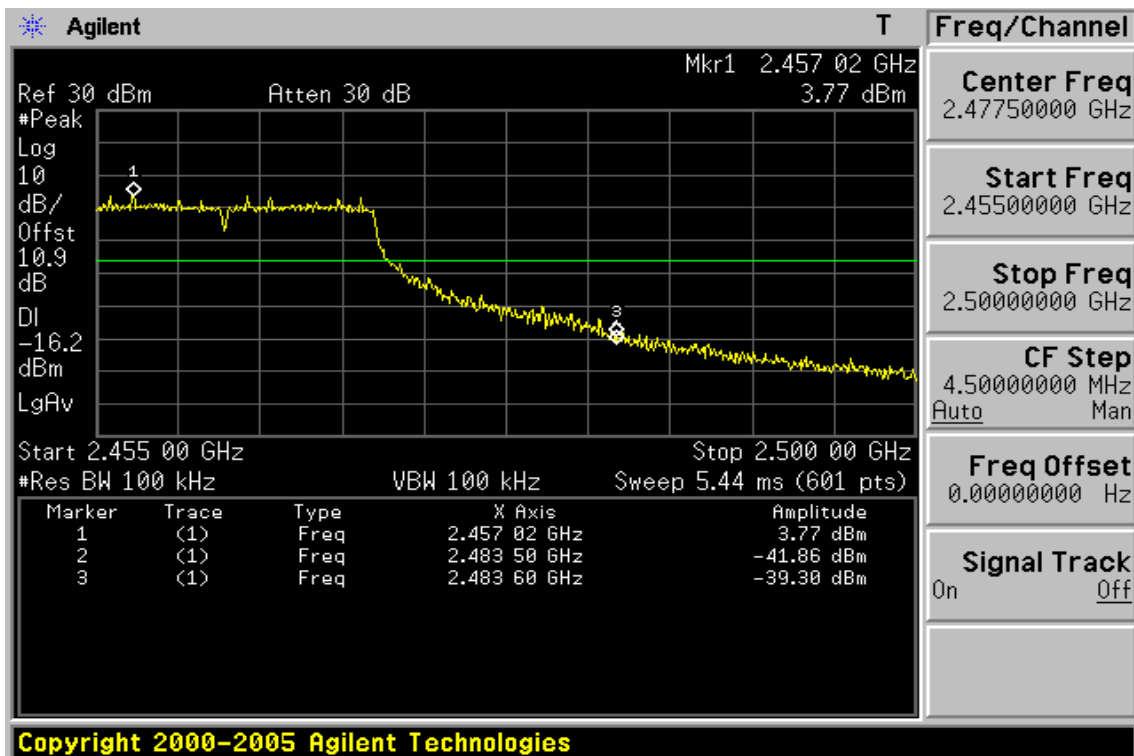
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802.11g - Unwanted Emissions into Non-Restricted Frequency Bands

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Radiated Emission:

(Unwanted Emissions into Restricted Frequency Bands): 802.11 g mode

| | | | |
|-----------------------|---------------|--------------------------|-----------------|
| Operation Band | :802.11g | Test Date | :2012-12-06 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :BANDEDGE LOW | Engineer | :Marcus |
| EUT Pol. | :E2 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.

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 |
| 2390.00 | E | Average | 49.43 | 2.12 | 51.55 | 54.00 | -2.45 |
| 2390.00 | E | Peak | 66.03 | 2.12 | 68.15 | 74.00 | -5.85 |

| | | | |
|-----------------------|---------------|--------------------------|-----------------|
| Operation Band | :802.11g | Test Date | :2012-12-06 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :BANDEDGE LOW | Engineer | :Marcus |
| EUT Pol. | :E2 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.

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 |
| 2390.00 | E | Average | 49.12 | 2.74 | 51.86 | 54.00 | -2.14 |
| 2390.00 | E | Peak | 61.99 | 2.74 | 64.73 | 74.00 | -9.27 |

For measurement plot of radiation revealing the compliance of 15.209, please refer to Appendix I.

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| | | | |
|-----------------------|----------------|--------------------------|-----------------|
| Operation Band | :802.11g | Test Date | :2012-12-06 |
| Fundamental Frequency | :2462 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :BANDEDGE HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 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.

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 |
| 2483.50 | E | Average | 50.28 | 2.53 | 52.81 | 54.00 | -1.19 |
| 2483.50 | E | Peak | 67.26 | 2.53 | 69.79 | 74.00 | -4.21 |

| | | | |
|-----------------------|----------------|--------------------------|-----------------|
| Operation Band | :802.11g | Test Date | :2012-12-06 |
| Fundamental Frequency | :2462 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :BANDEDGE HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 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.

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 |
| 2483.50 | E | Average | 49.18 | 3.56 | 52.74 | 54.00 | -1.26 |
| 2483.50 | E | Peak | 63.83 | 3.56 | 67.39 | 74.00 | -6.61 |

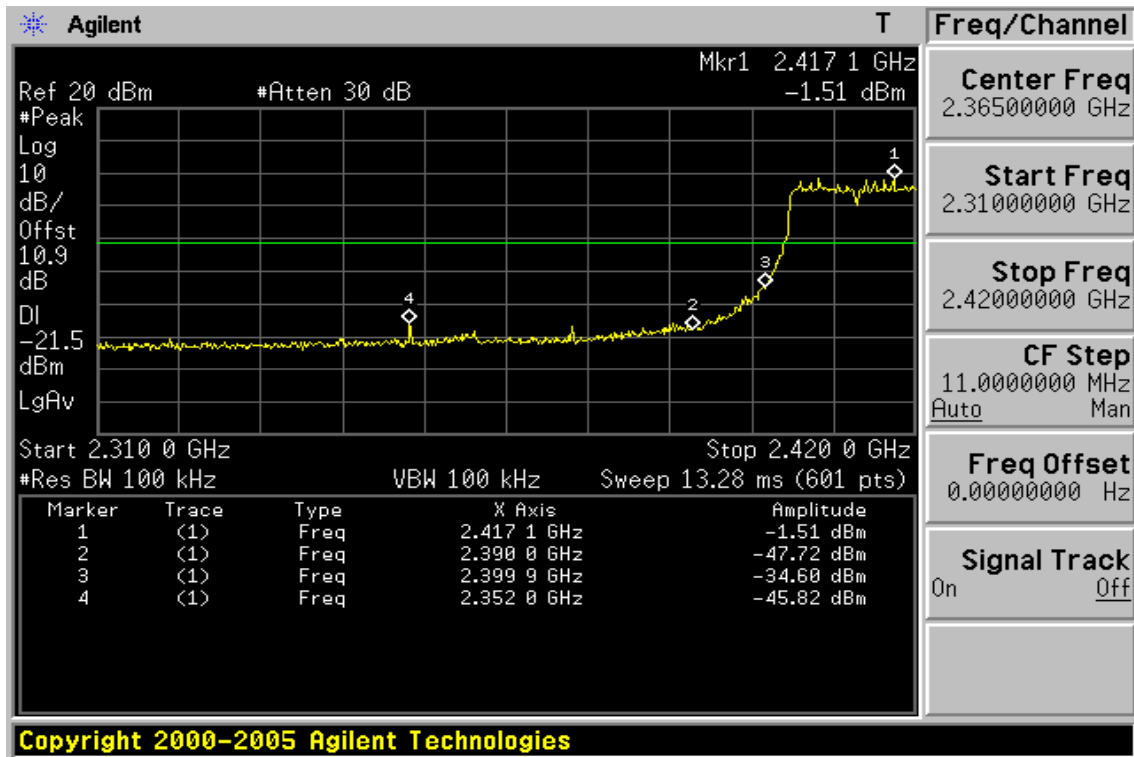
For measurement plot of radiation revealing the compliance of 15.209, please refer to Appendix I.

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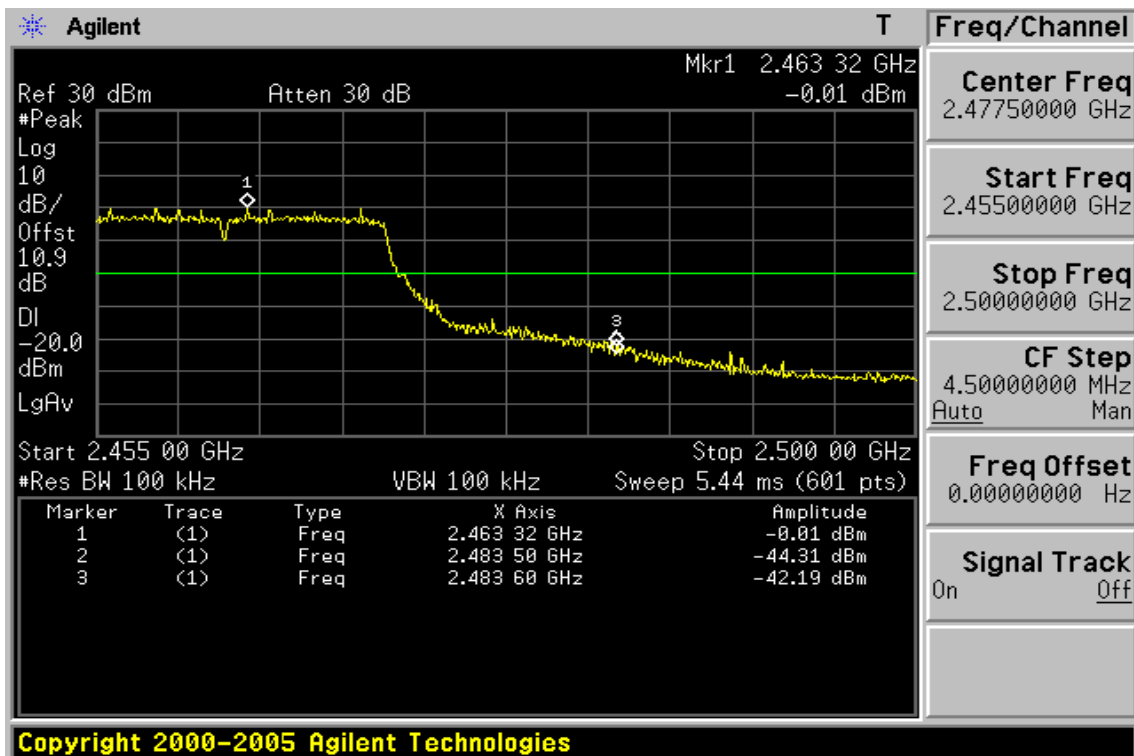
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802.11n_20M- Unwanted Emissions into Non-Restricted Frequency Bands Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Radiated Emission: 802.11 n_20M mode

(Unwanted Emissions into Restricted Frequency Bands): 802.11 n_20M mode

| | | | |
|-----------------------|---------------|--------------------------|-----------------|
| Operation Band | :802.11n 20M | Test Date | :2012-12-06 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :BANDEDGE LOW | Engineer | :Marcus |
| EUT Pol. | :E2 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.

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 |
| 2390.00 | E | Average | 50.25 | 2.12 | 52.37 | 54.00 | -1.63 |
| 2390.00 | E | Peak | 65.04 | 2.12 | 67.16 | 74.00 | -6.84 |

| | | | |
|-----------------------|---------------|--------------------------|-----------------|
| Operation Band | :802.11n 20M | Test Date | :2012-11-28 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :BANDEDGE LOW | Engineer | :Marcus |
| EUT Pol. | :E2 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.

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 |
| 2390.00 | E | Average | 50.22 | 2.74 | 52.96 | 54.00 | -1.04 |
| 2390.00 | E | Peak | 64.25 | 2.74 | 66.99 | 74.00 | -7.01 |

For measurement plot of radiation revealing the compliance of 15.209, please refer to Appendix I.

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| | | | |
|-----------------------|----------------|--------------------------|-----------------|
| Operation Band | :802.11n | Test Date | :2012-12-06 |
| Fundamental Frequency | :2462 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :BANDEDGE HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 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.

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 |
| 2483.50 | E | Average | 49.72 | 2.53 | 52.25 | 54.00 | -1.75 |
| 2483.50 | E | Peak | 66.23 | 2.53 | 68.76 | 74.00 | -5.24 |

| | | | |
|-----------------------|----------------|--------------------------|-----------------|
| Operation Band | :802.11n | Test Date | :2012-12-06 |
| Fundamental Frequency | :2462 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :BANDEDGE HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 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.

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 |
| 2483.50 | E | Average | 49.33 | 3.56 | 52.89 | 54.00 | -1.11 |
| 2483.50 | E | Peak | 64.78 | 3.56 | 68.34 | 74.00 | -5.66 |

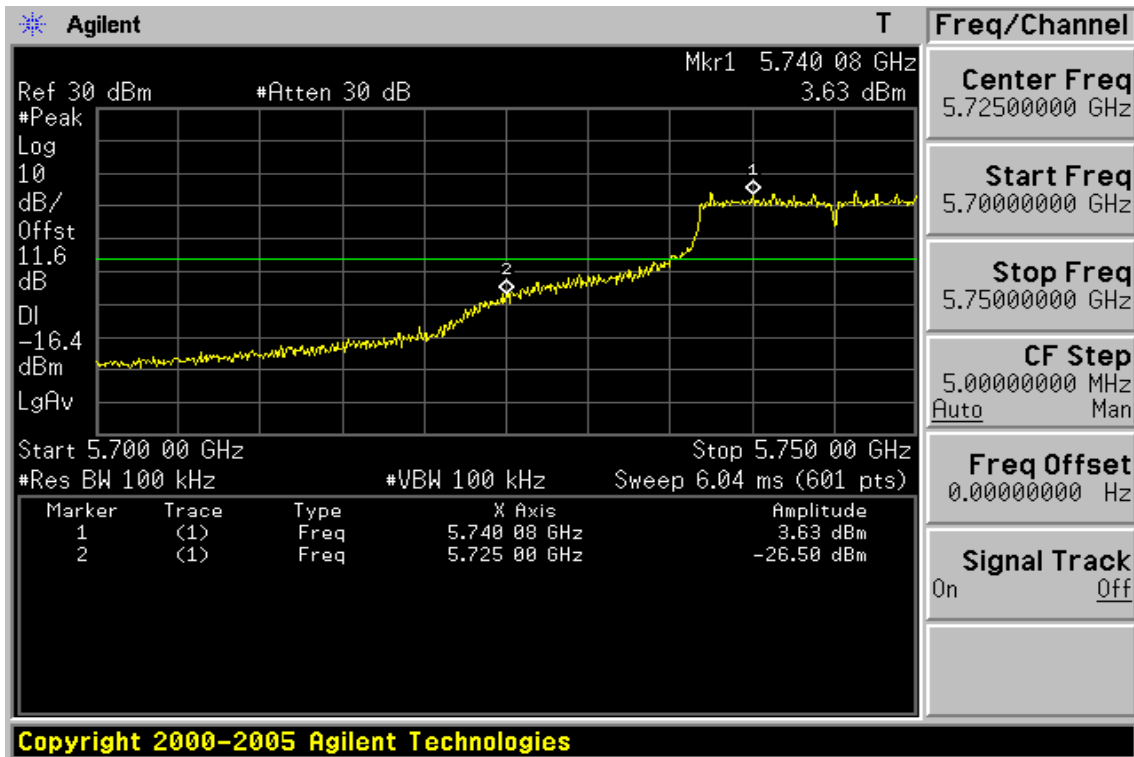
For measurement plot of radiation revealing the compliance of 15.209, please refer to Appendix I.

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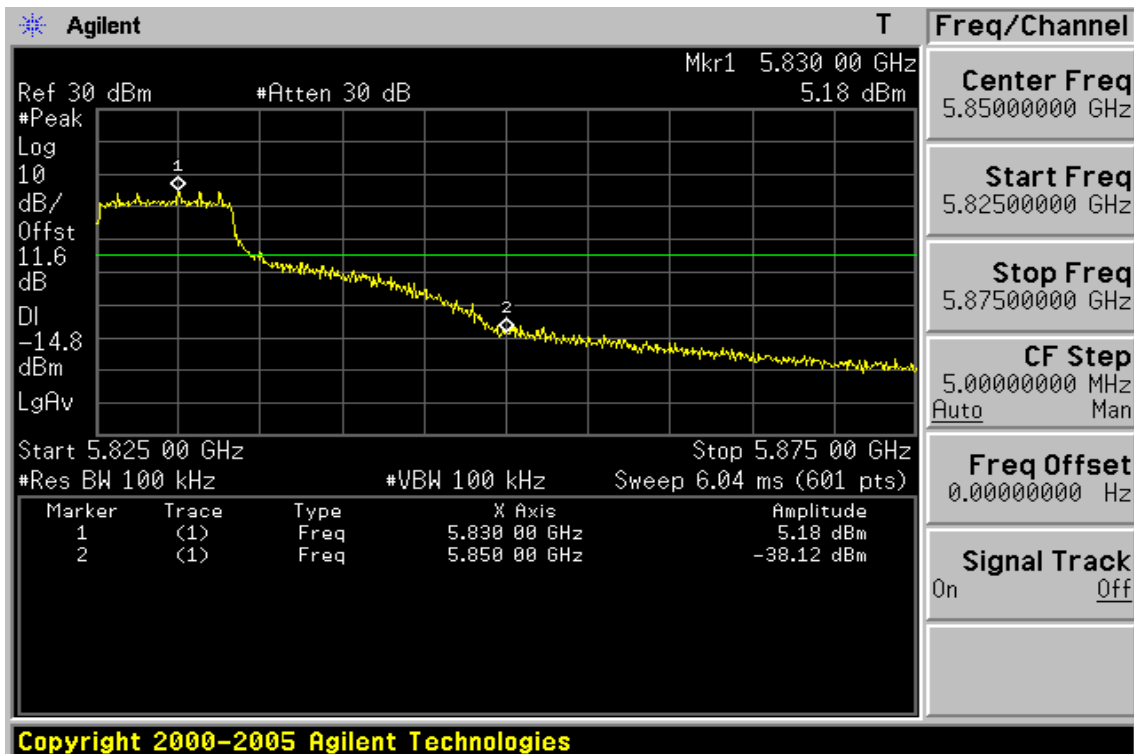
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802.11a - Unwanted Emissions into Non-Restricted Frequency Bands Band Edges Test Data CH-Low

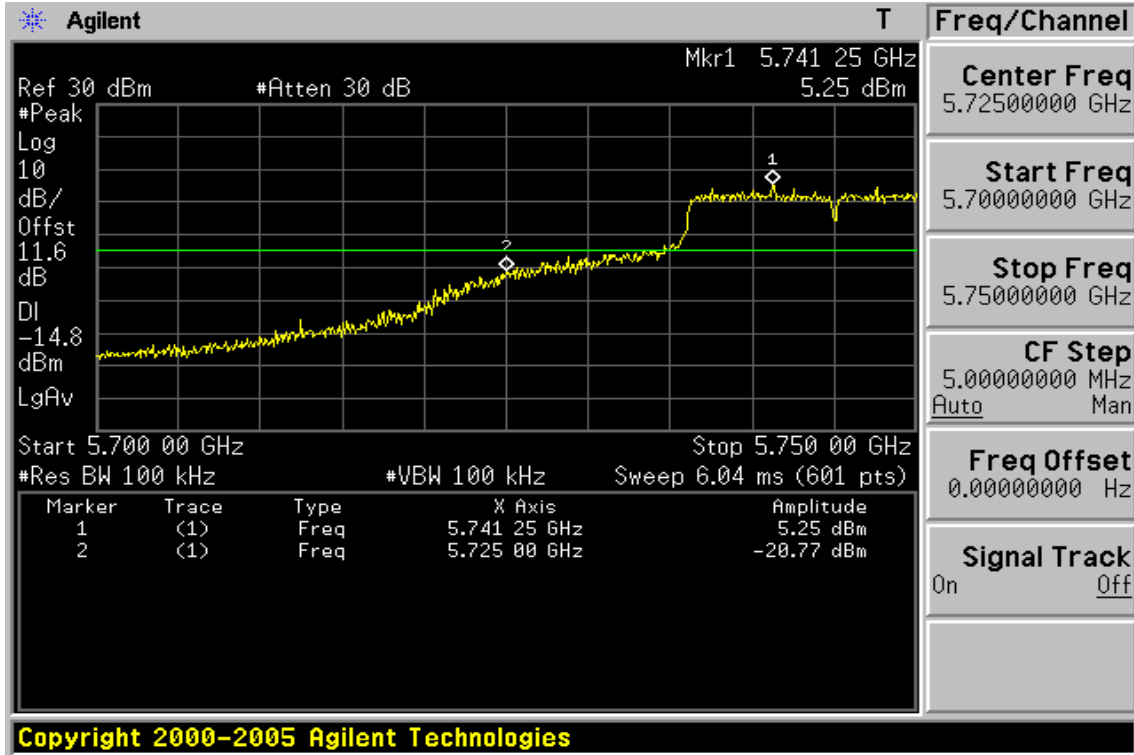


Band Edges Test Data CH-High



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802.11n(5GHz)_20M - Unwanted Emissions into Non-Restricted Frequency Bands Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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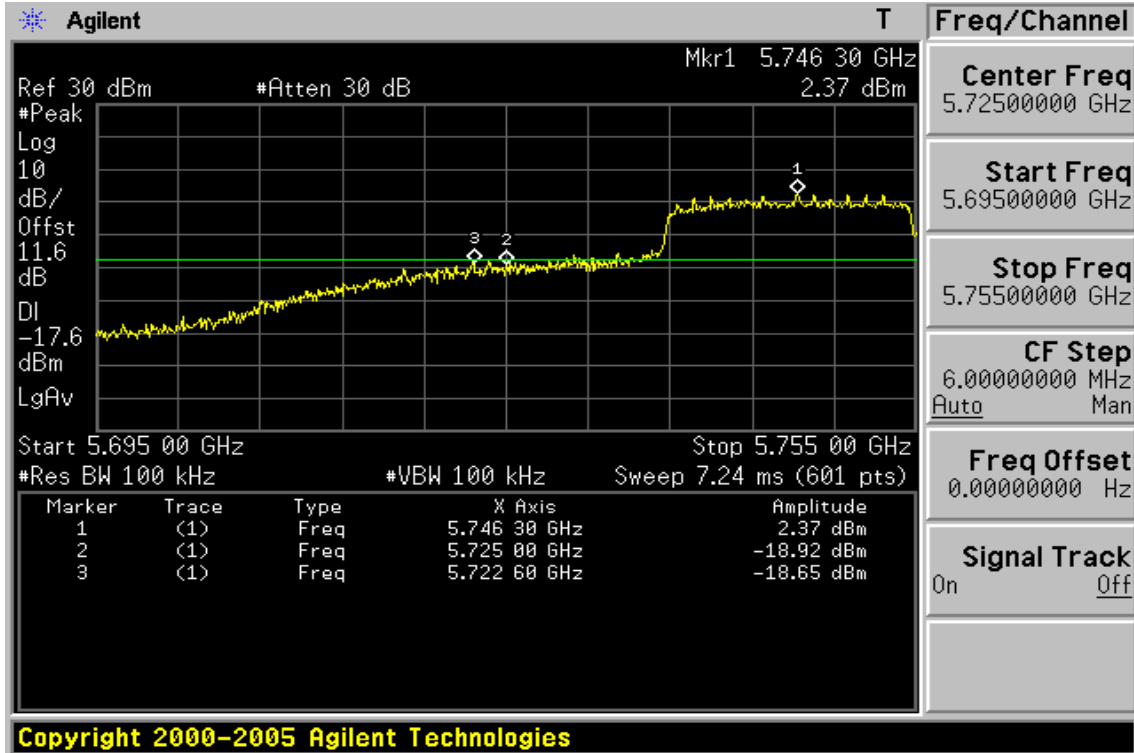
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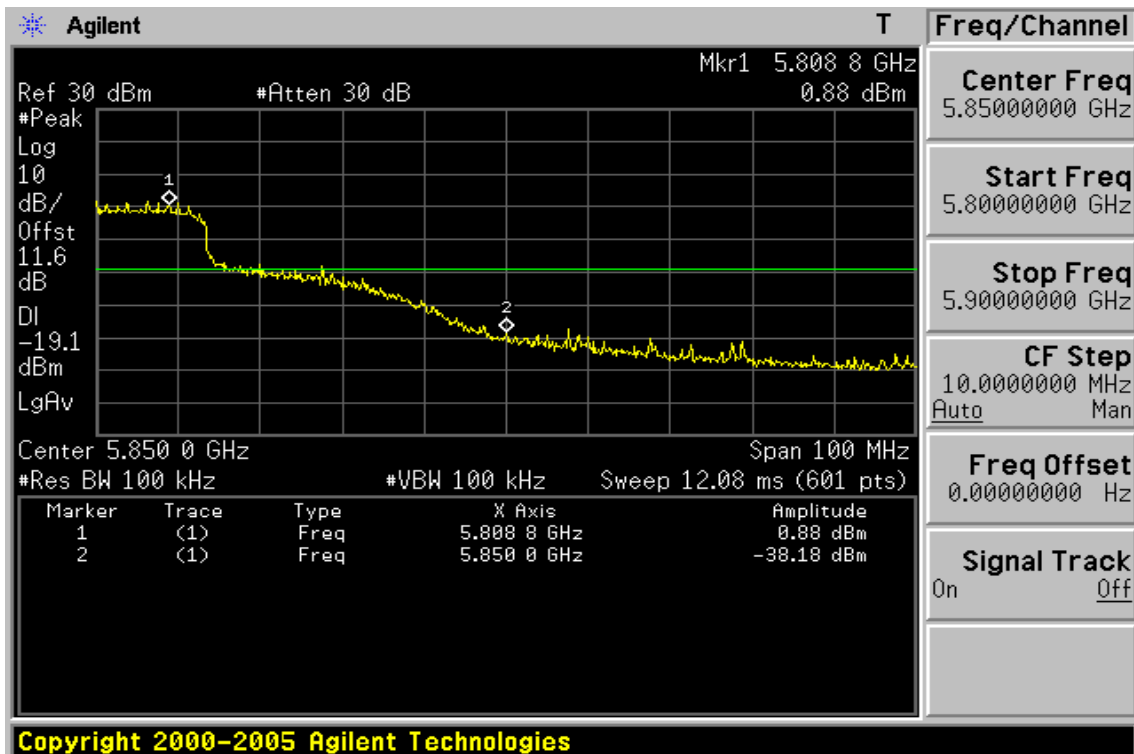
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802.11n_40M - Unwanted Emissions into Non-Restricted Frequency Bands Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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10 SPURIOUS EMISSION TEST

10.1 Standard Applicable

According to §15.247(d),

Emission at antenna port:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Radiated Spurious Emission

Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

According to RSS-Gen §7.2.5 and RSS-210 issue 8, §A8.5, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under section A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Tables 5 and 6 is not required. In addition, radiated emissions which fall in the restricted bands of Table 3 must also comply with the radiated emission limits specified in Tables 5 and 6 of RSS-GEN.

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10.2 Measurement Equipment Used:

10.2.1 Conducted Emission at antenna port:

Refer to section 7.2 for details.

10.2.2 Radiated emission:

Refer to section 9.2.2 for details.

10.3 Test SET-UP:

10.3.1 Conducted Emission at antenna port:

Refer to section 7.3 for details.

10.3.2 Radiated emission:

Refer to section 9.3.2 for details.

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10.4 Measurement Procedure:

Radiated Emission:

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

Conducted Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 100K & VBW = 300K on Spectrum.
3. Sweep the frequency to determine spurious emission as seen on spectrum from span of 30 to 3G, 3G to 8G, 8G to 13G, 13G to 18G and 18G to 26.5GHz
4. Via Software, combine 5 spans of frequency range into one plot

10.5 Field Strength Calculation

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

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

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

10.6 Measurement Result:

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

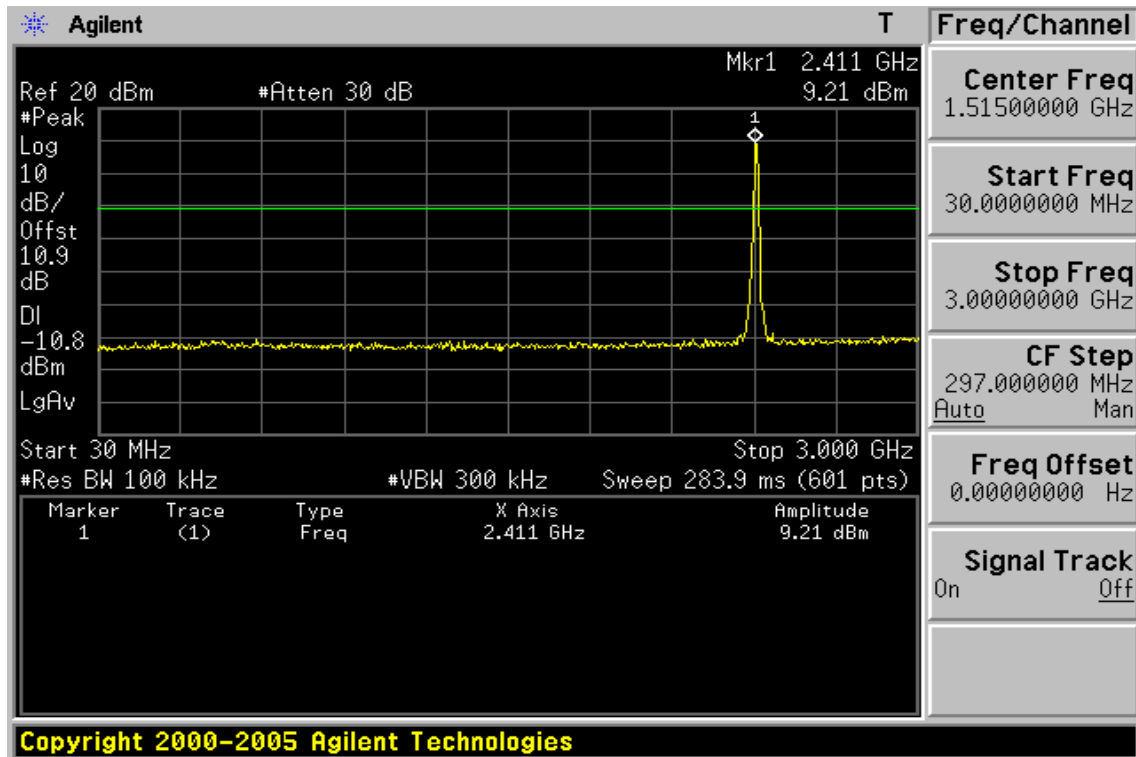
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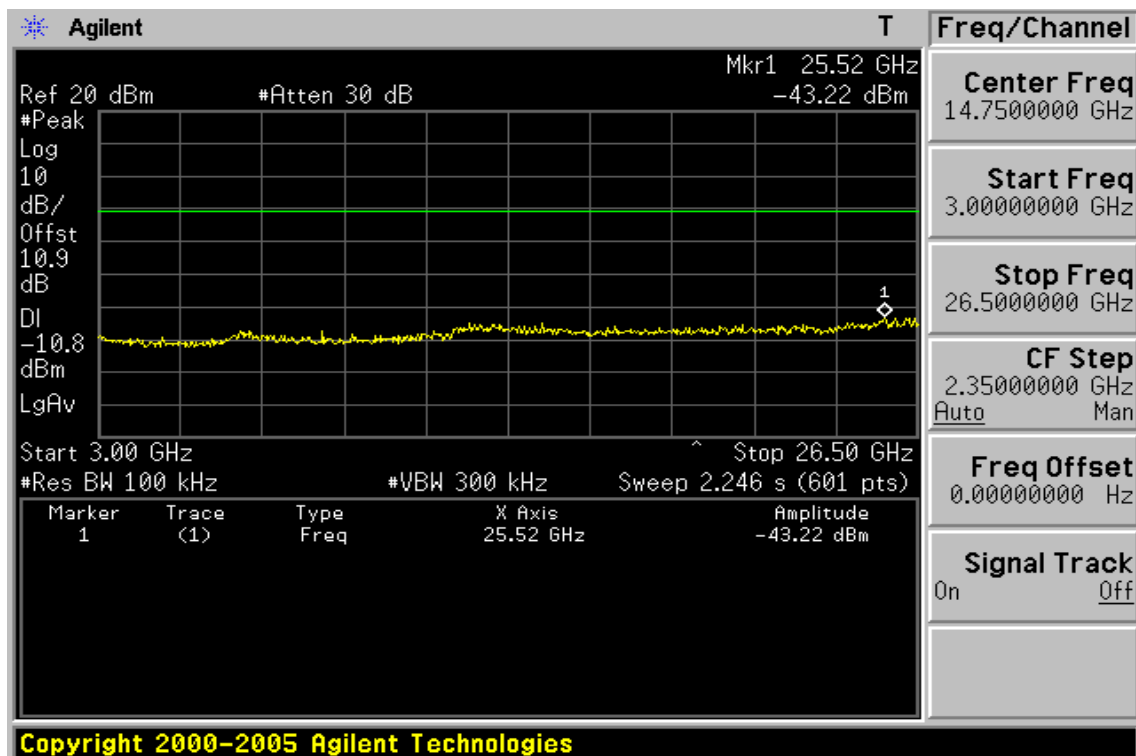
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Conducted Spurious Emission Measurement Result (802.11b)

Ch Low 30MHz – 3GHz



Ch Low 3GHz – 26.5GHz



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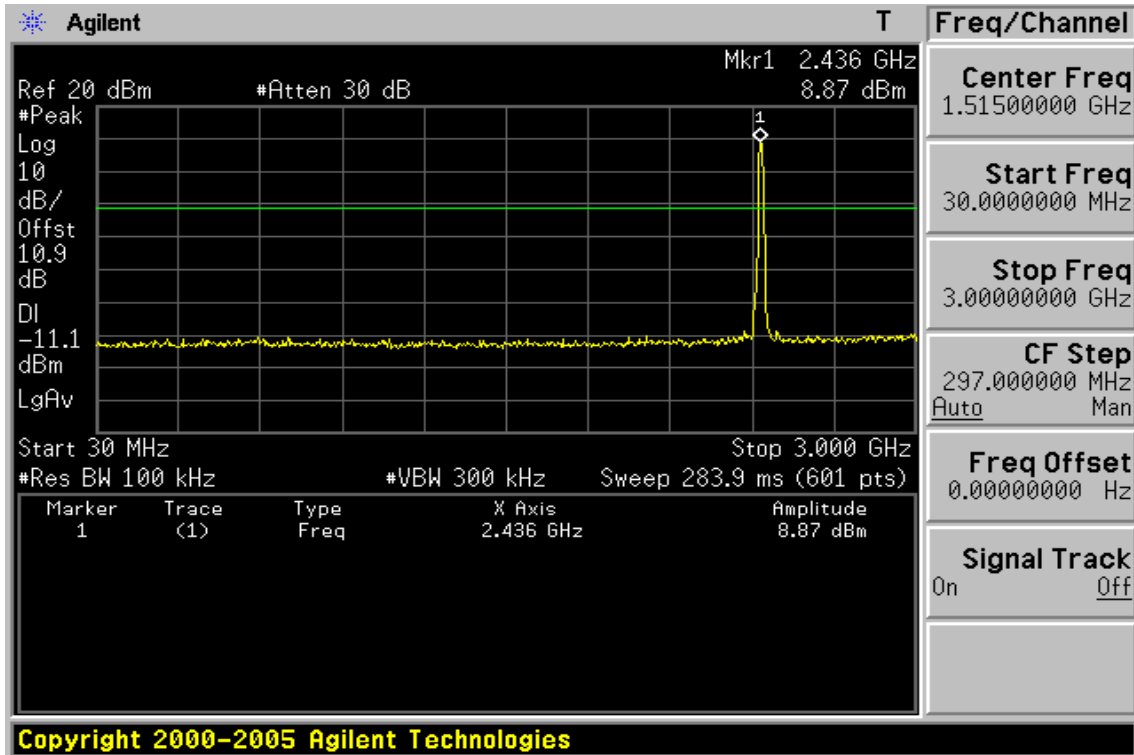
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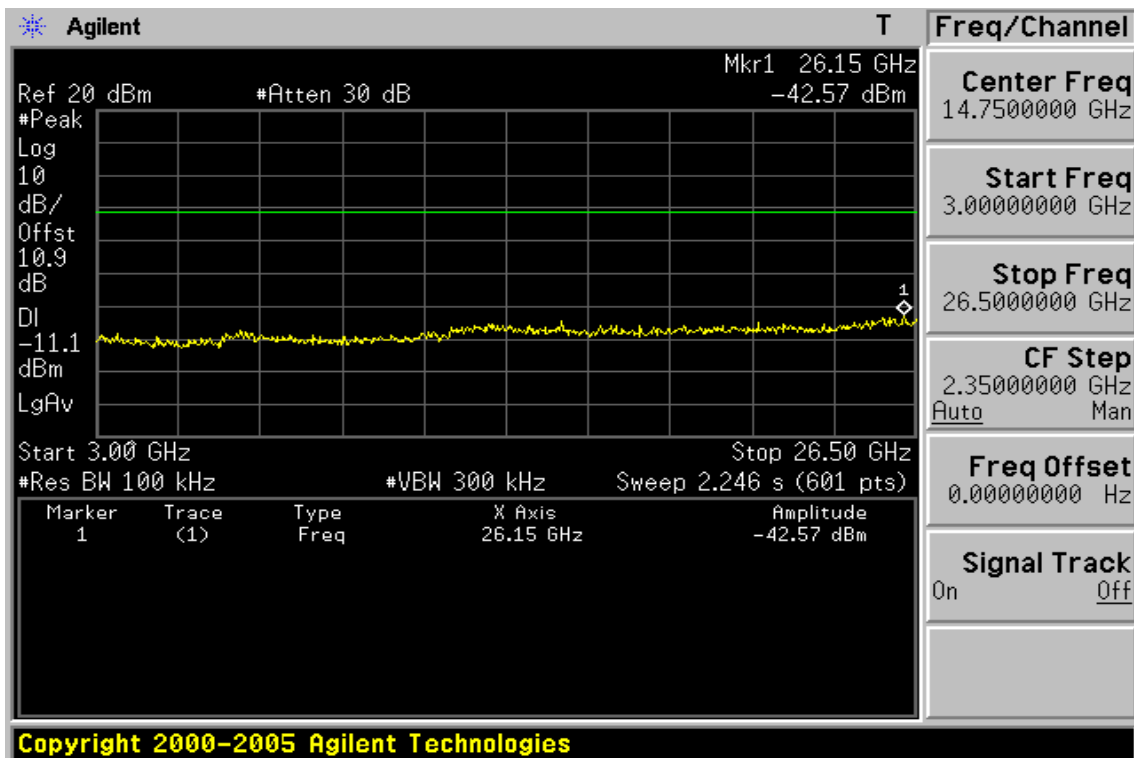
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Ch Mid 30MHz – 3GHz



Ch Mid 3GHz – 26.5GHz



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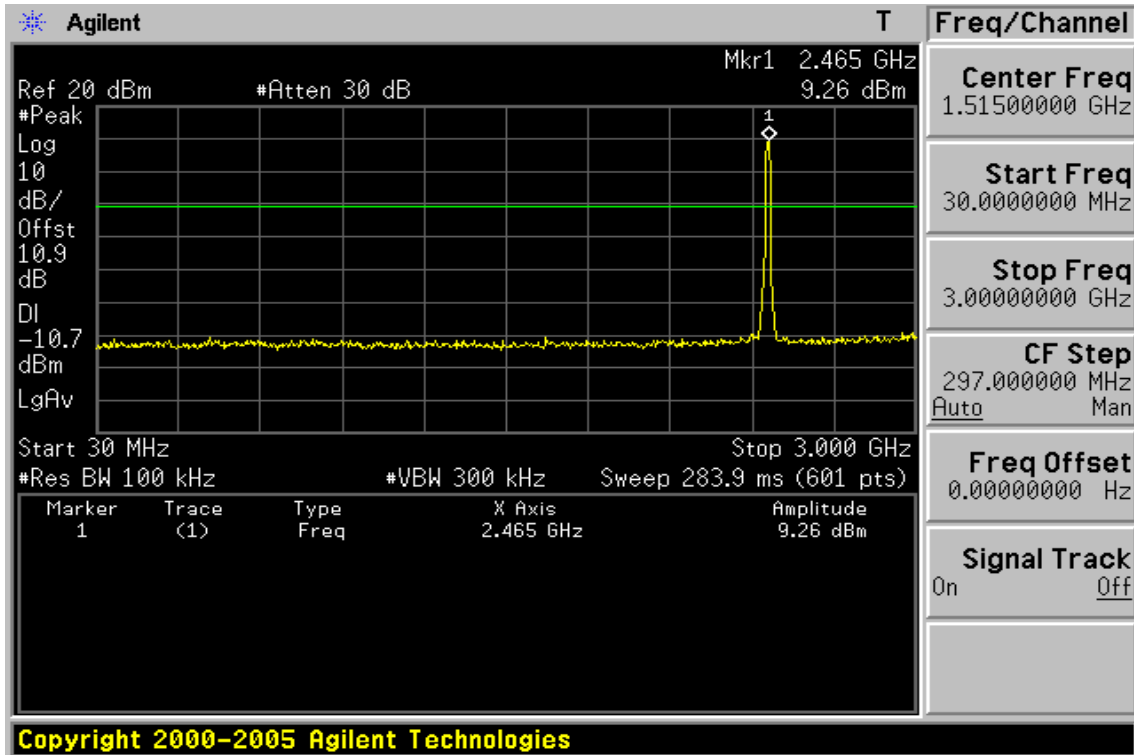
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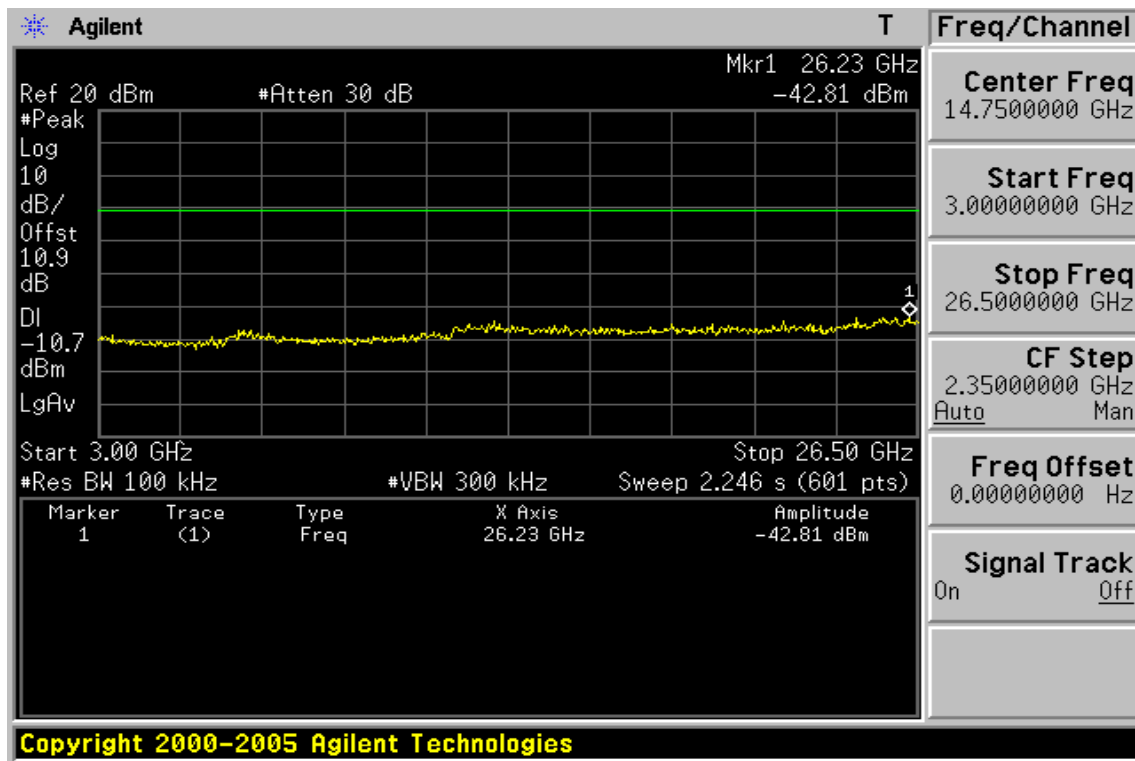
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Ch High 30MHz – 3GHz



Ch High 3GHz – 26.5GHz



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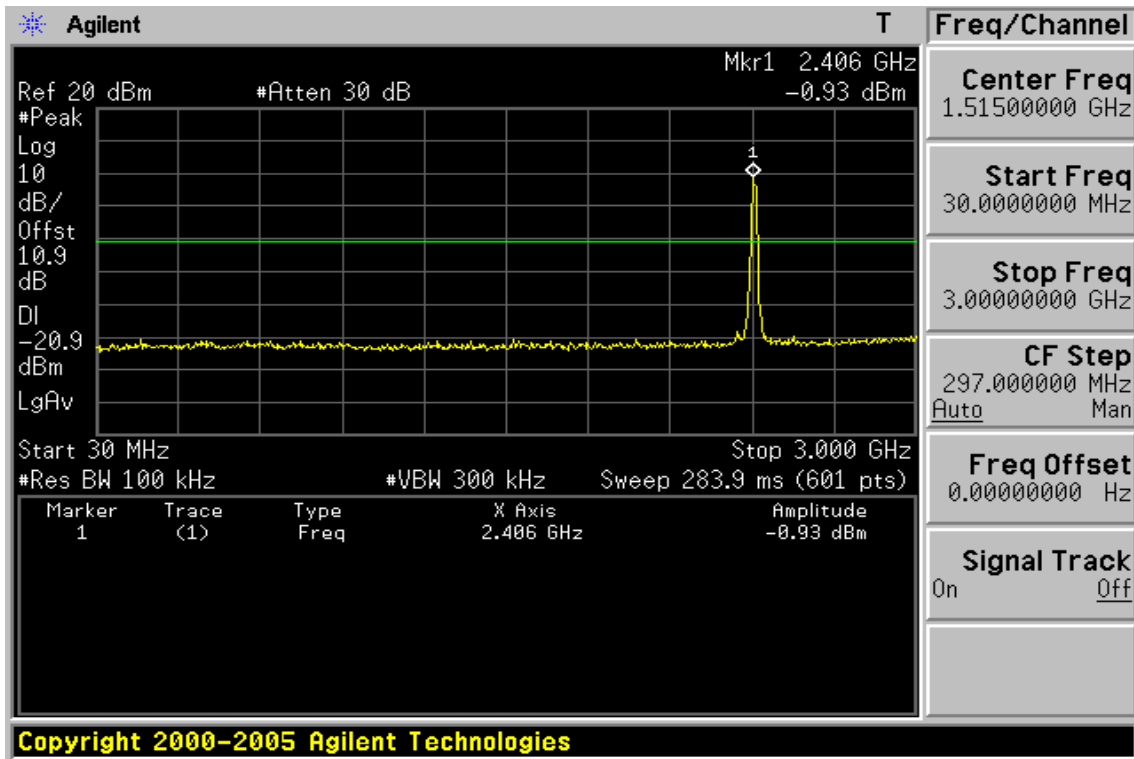
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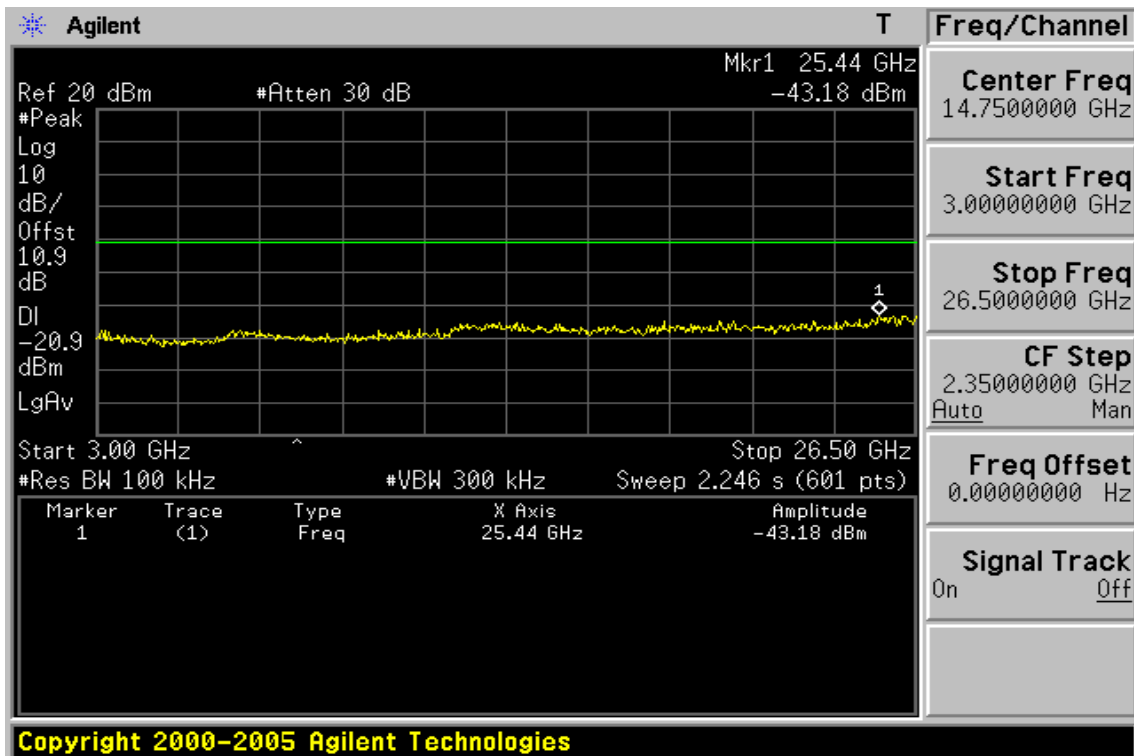
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Conducted Spurious Emission Measurement Result (802.11g)

Ch Low 30MHz – 3GHz



Ch Low 3GHz – 26.5GHz



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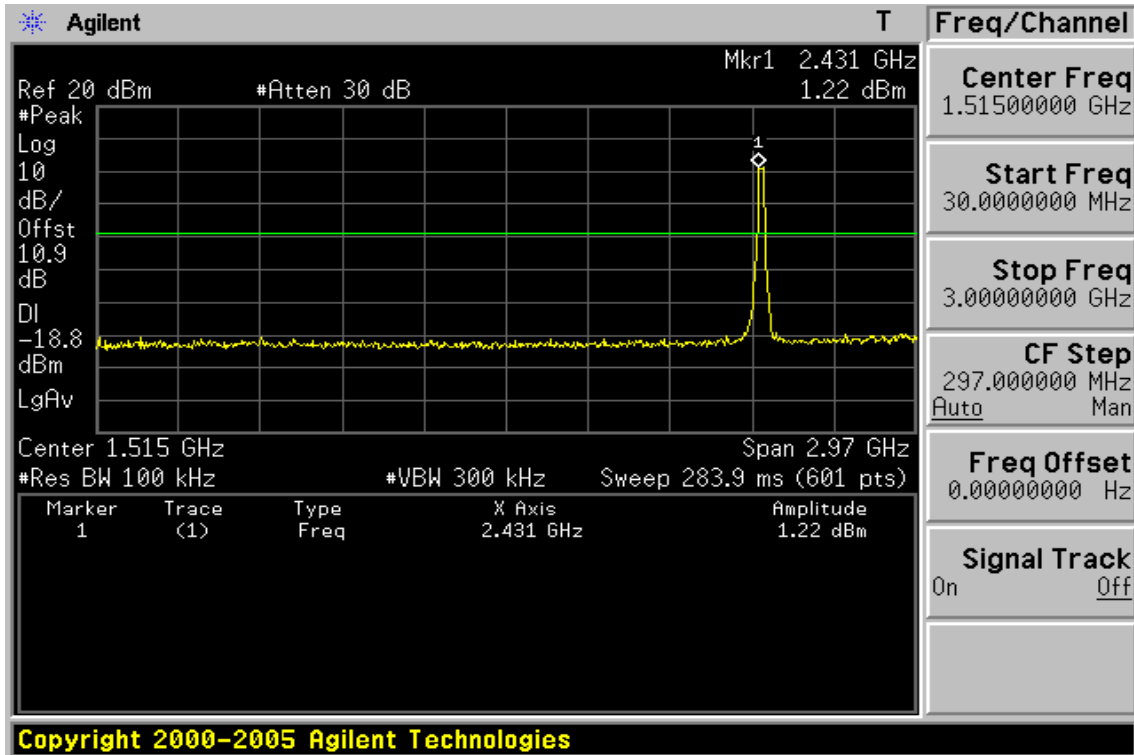
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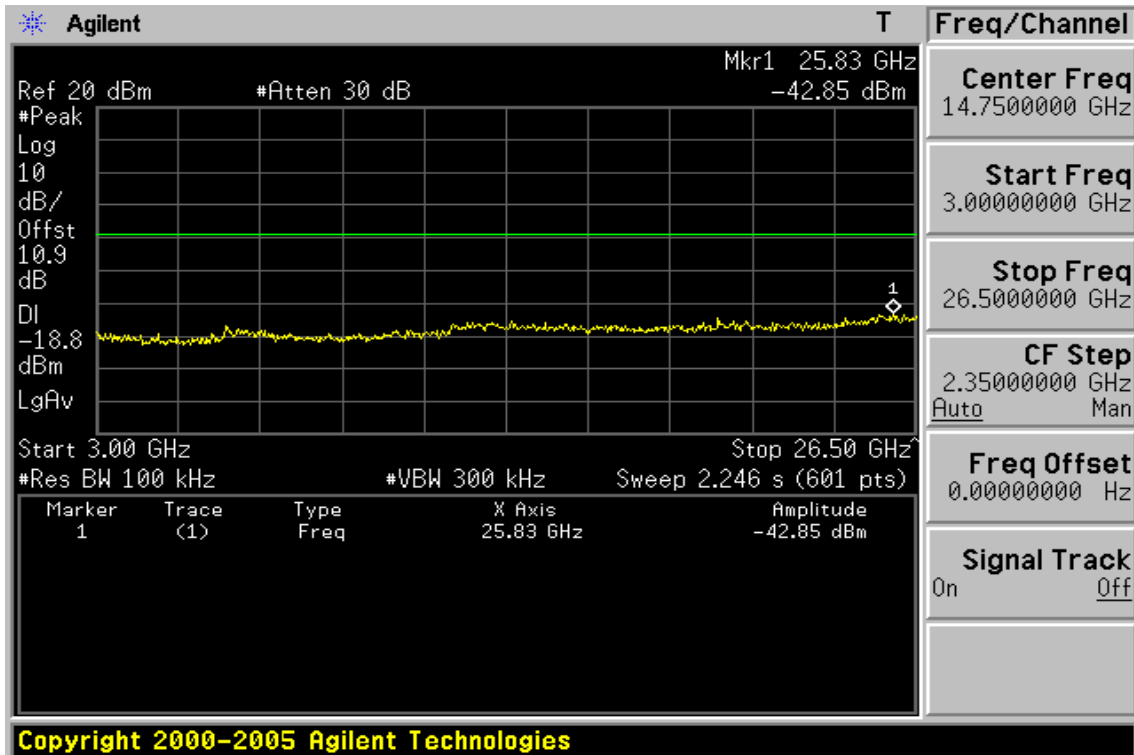
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Ch Mid 30MHz – 3GHz



Ch Mid 3GHz – 26.5GHz



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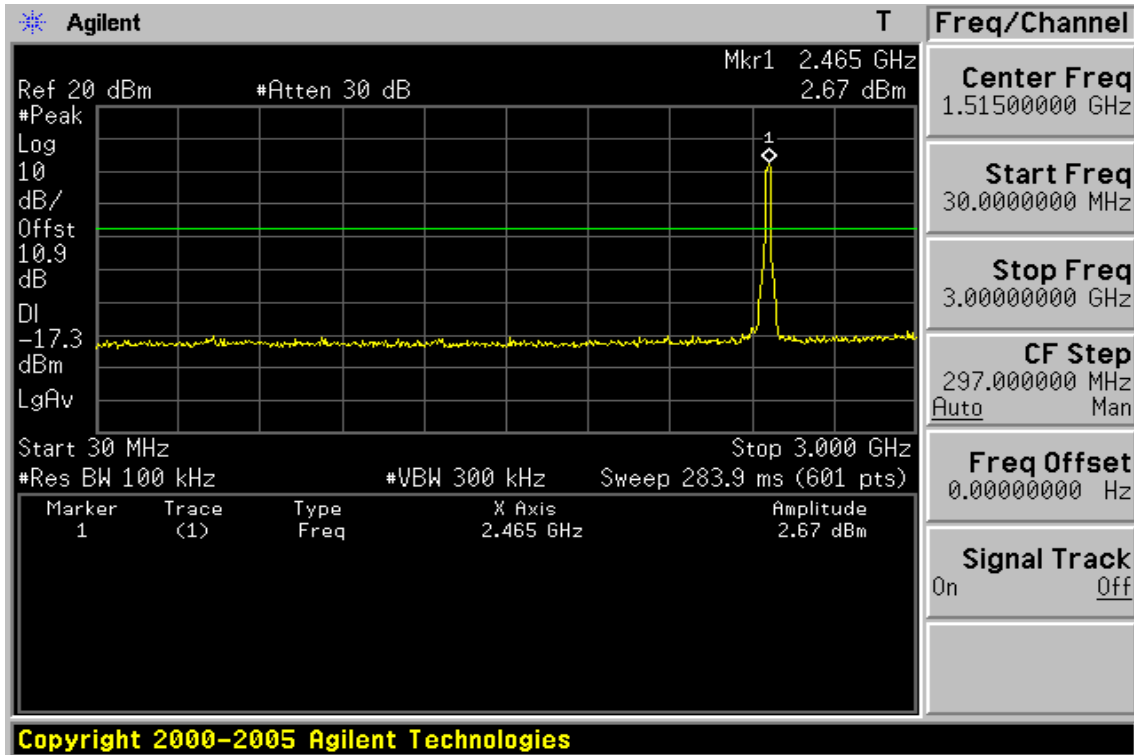
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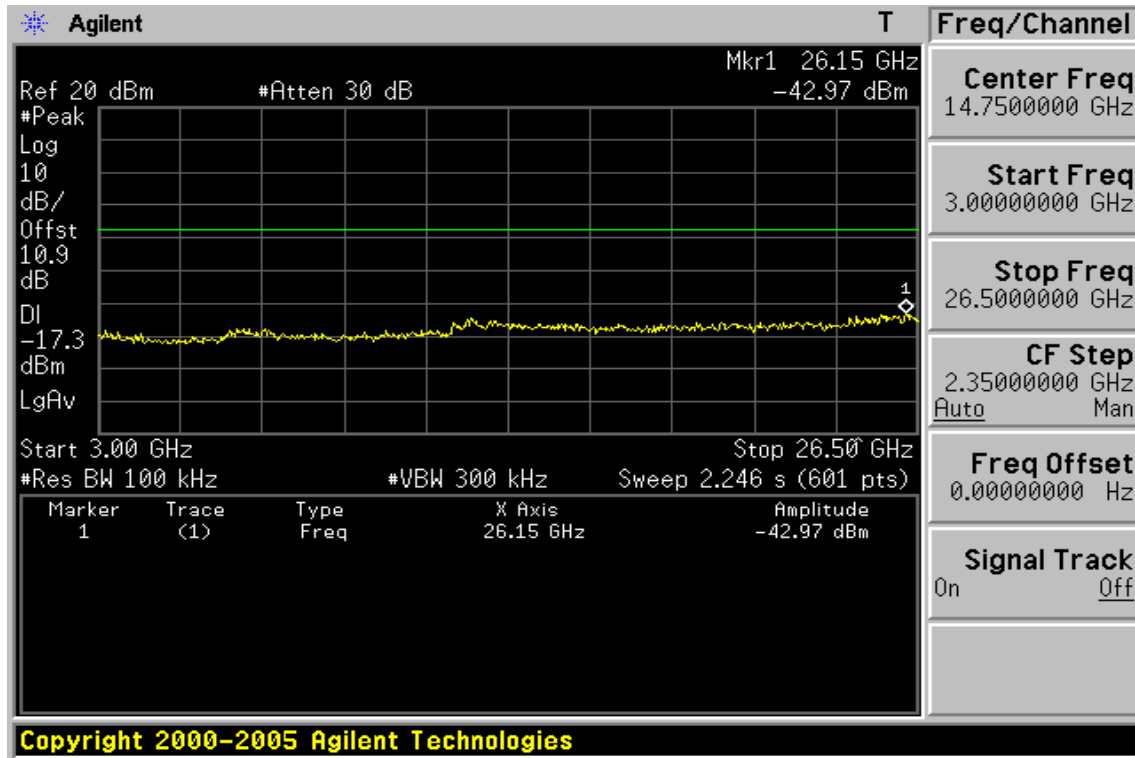
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Ch High 30MHz – 3GHz



Ch High 3GHz – 26.5GHz



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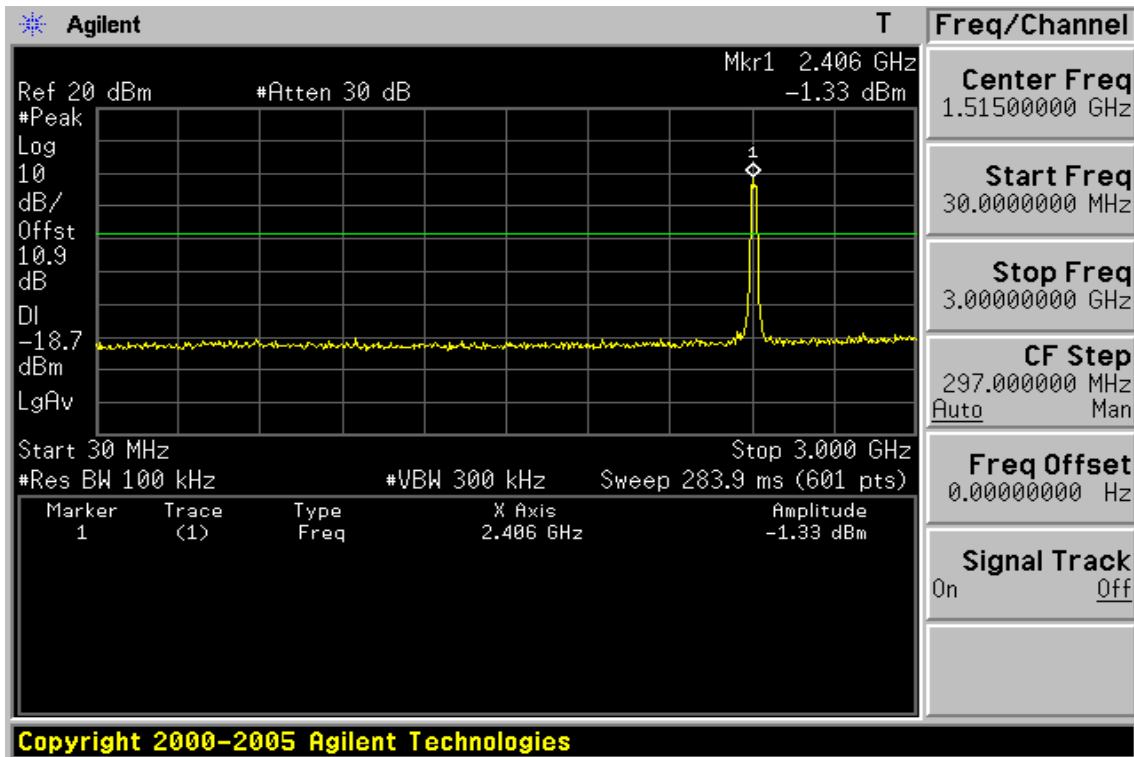
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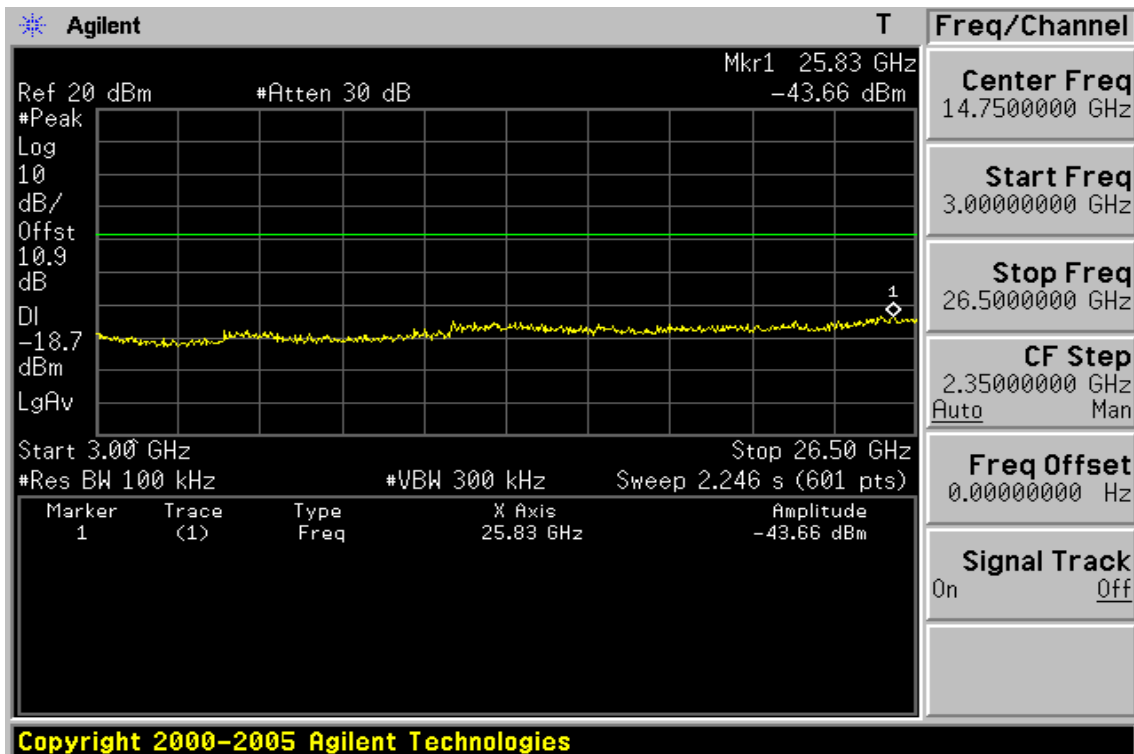
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Conducted Spurious Emission Measurement Result (802.11n_20M)

Ch Low 30MHz – 3GHz



Ch Low 3GHz – 26.5GHz



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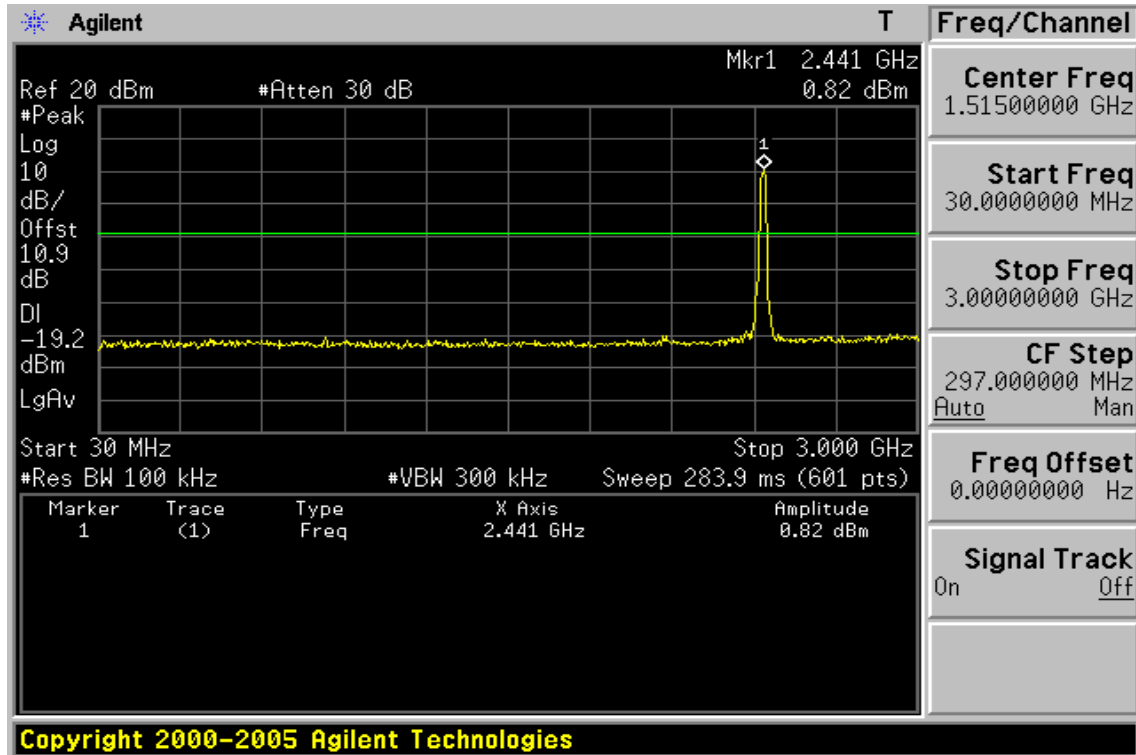
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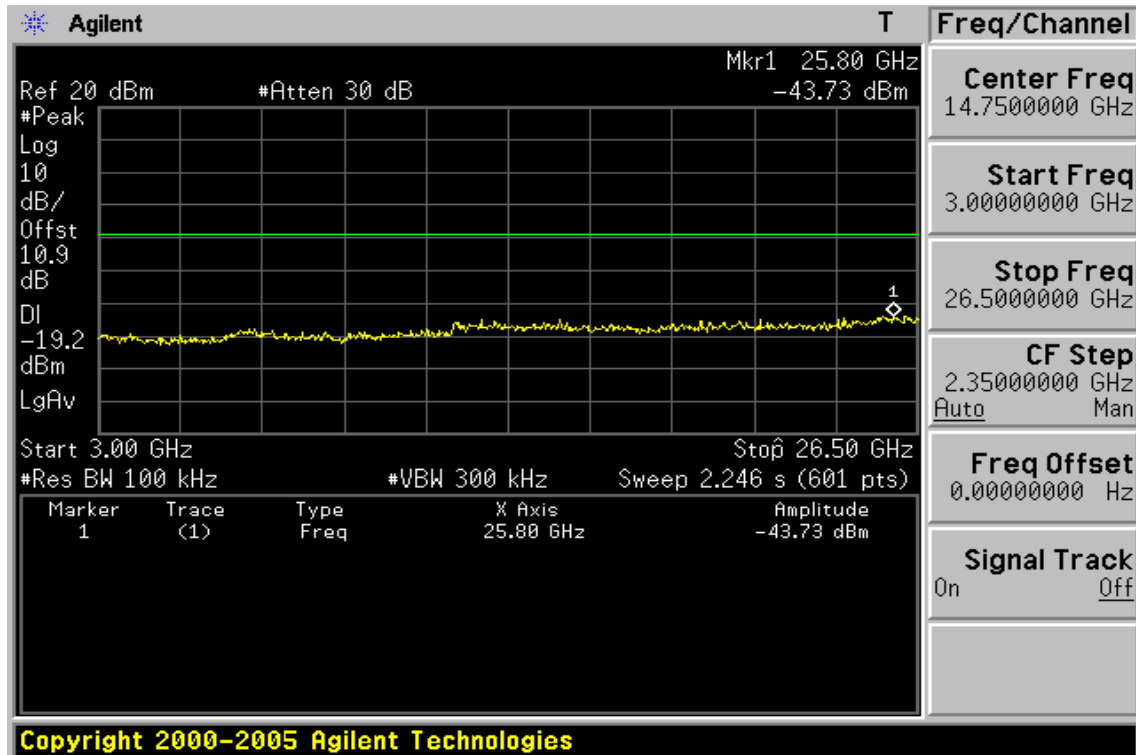
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Ch Mid 30MHz – 3GHz



Ch Mid 3GHz – 26.5GHz



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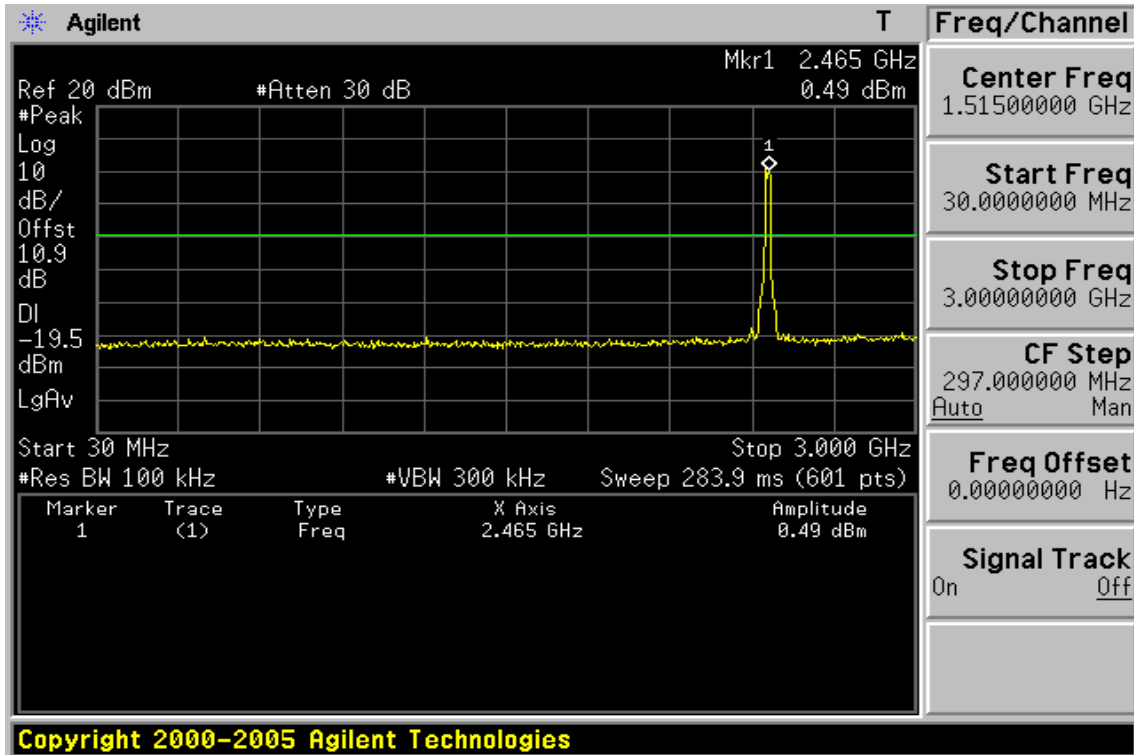
t (886-2) 2299-3279

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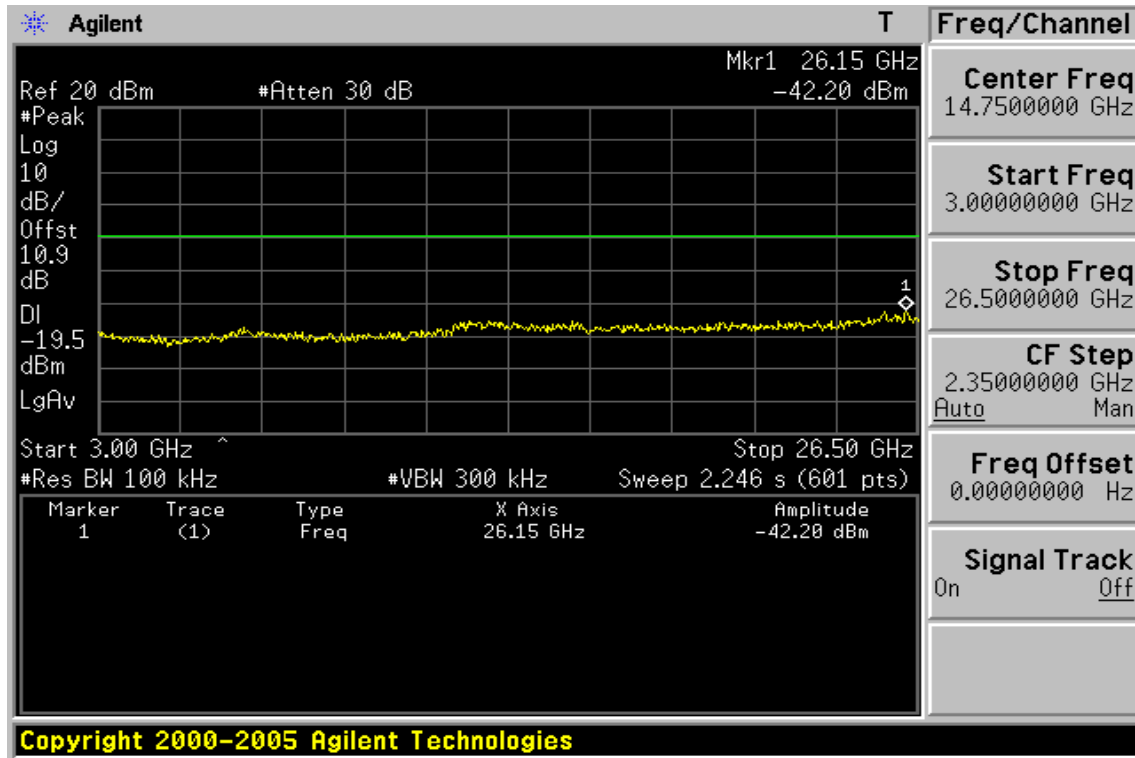
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Ch High 30MHz – 3GHz



Ch High 3GHz – 26.5GHz



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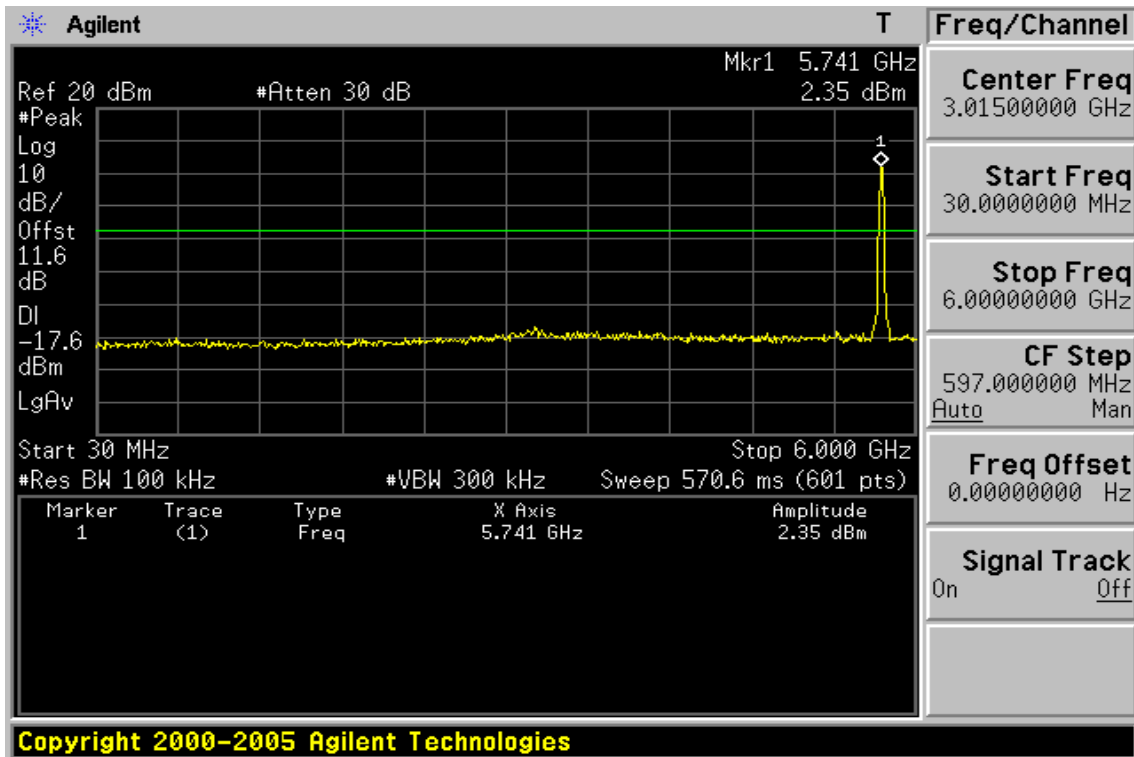
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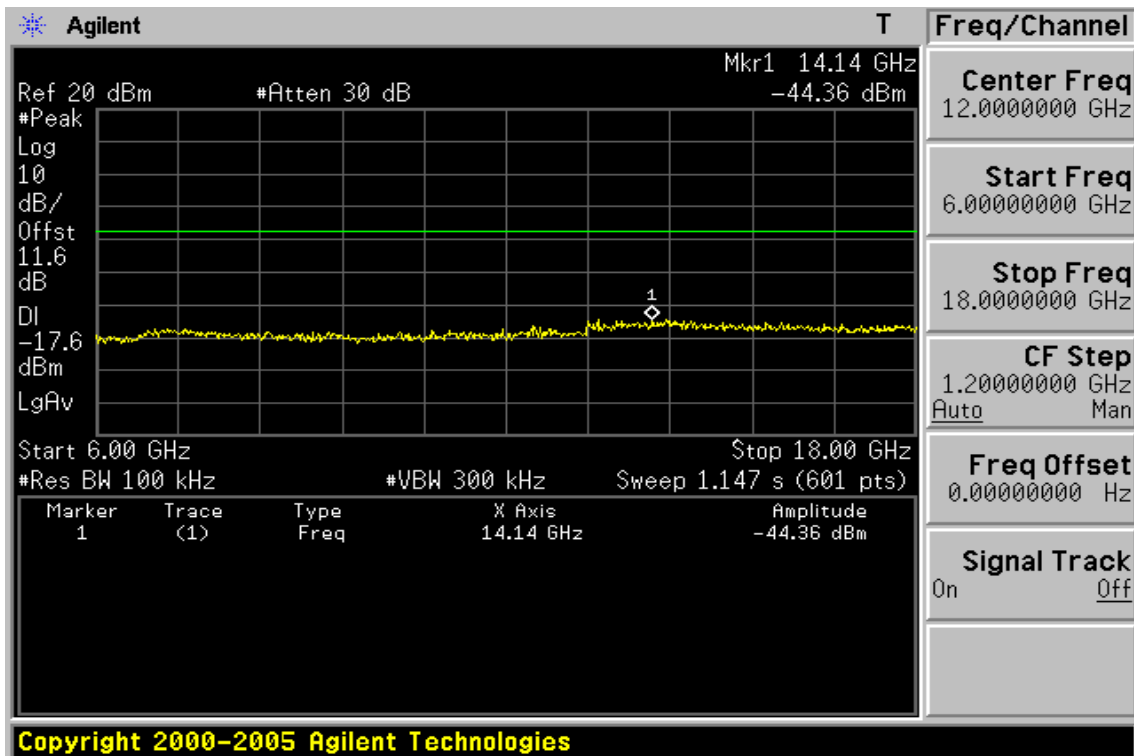
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Conducted Spurious Emission Measurement Result (802.11a)

Ch Low 30MHz – 6GHz



Ch Low 6GHz – 18GHz

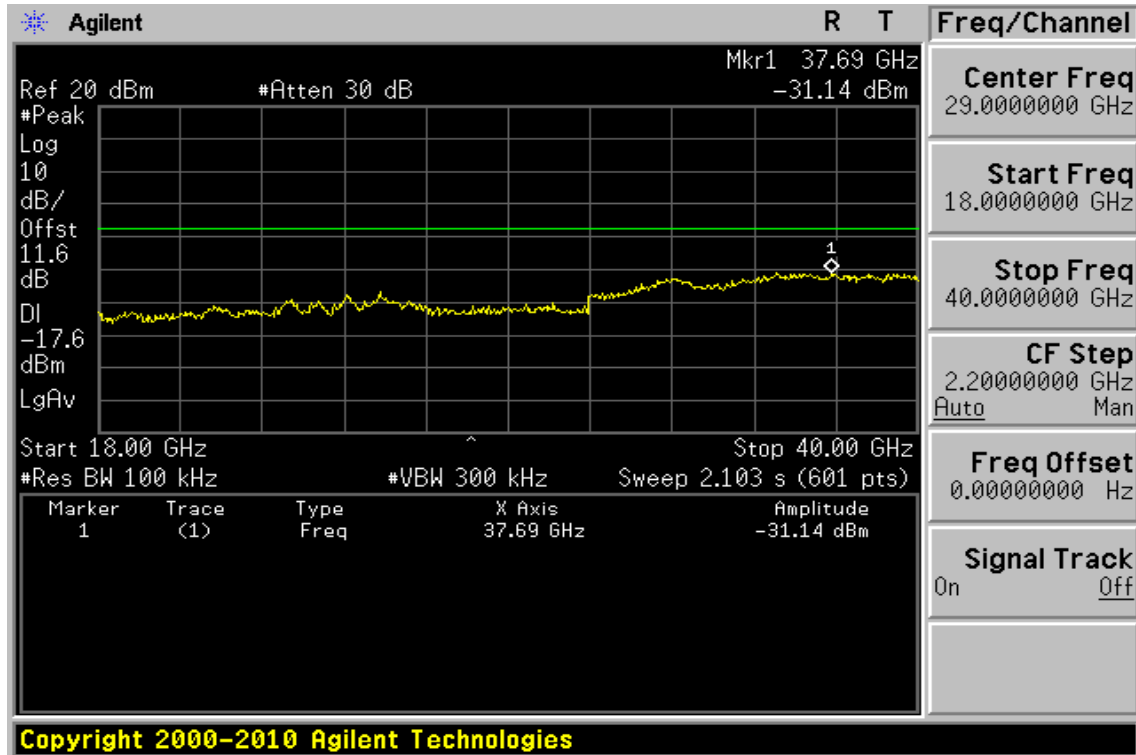


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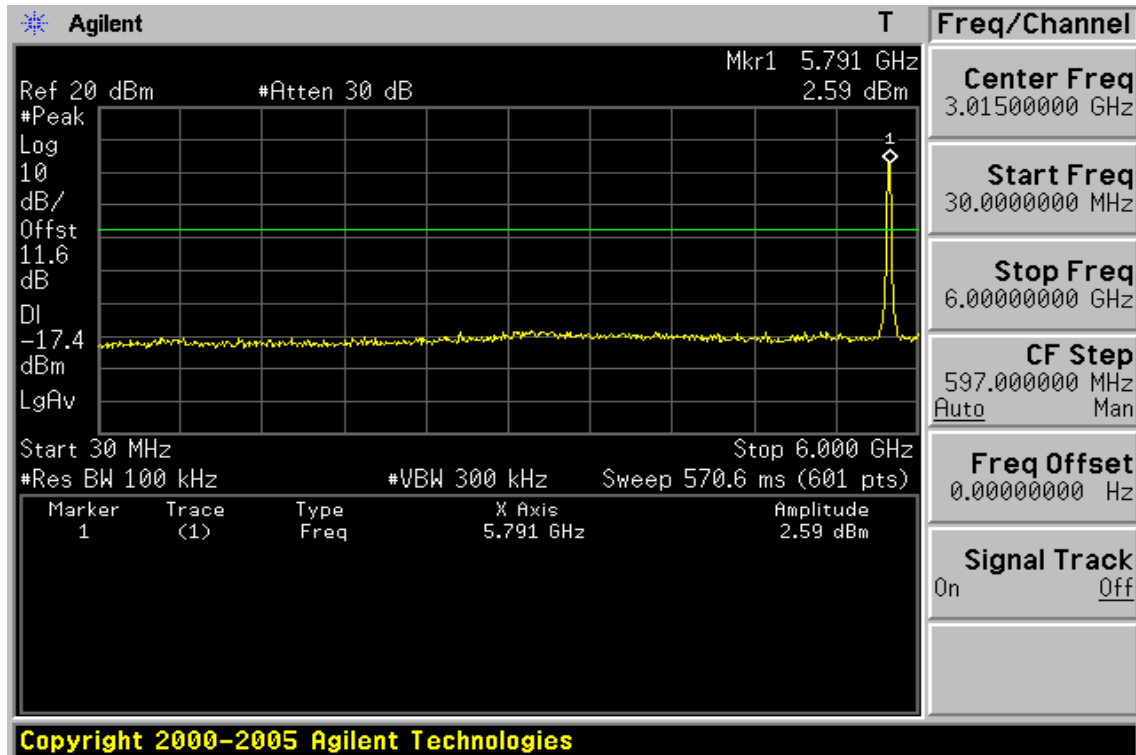
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Ch Low 18GHz – 40GHz

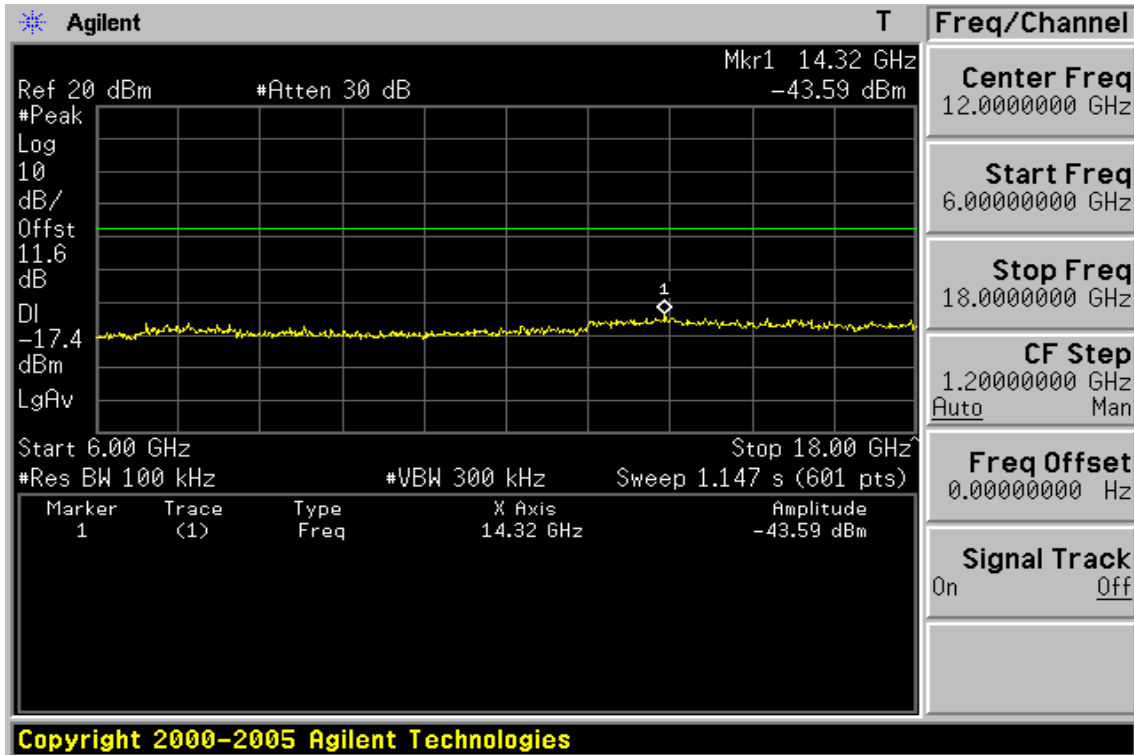


Ch Mid 30MHz – 6GHz

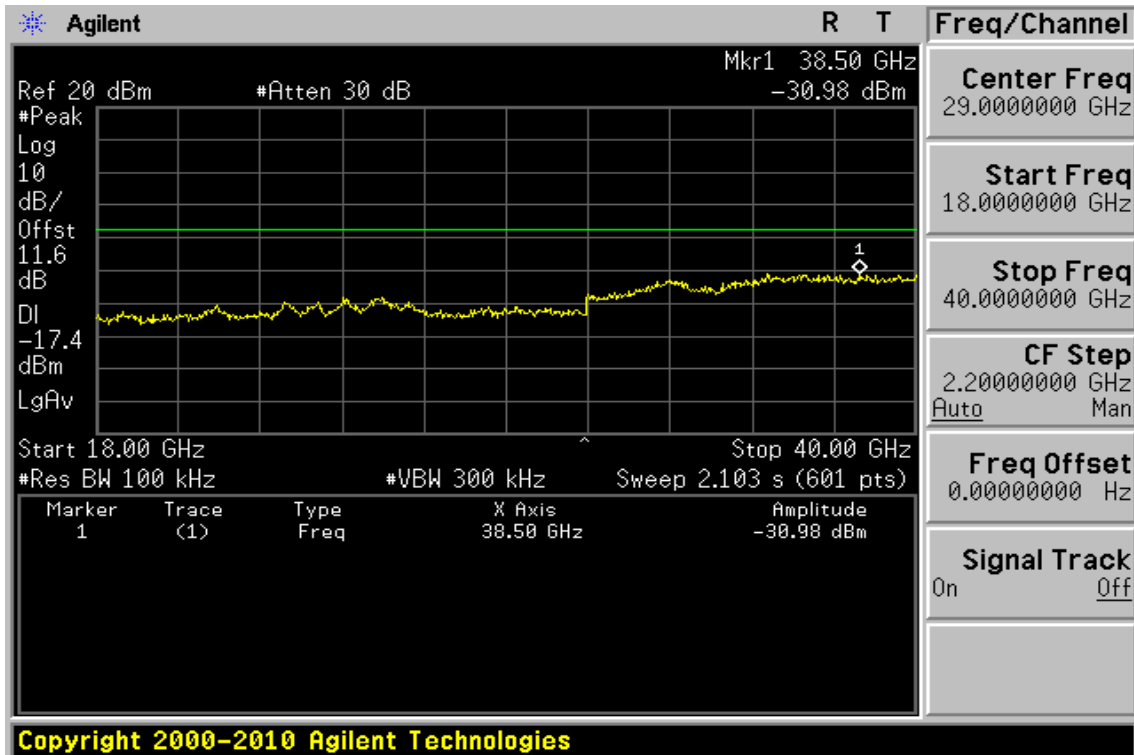


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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz



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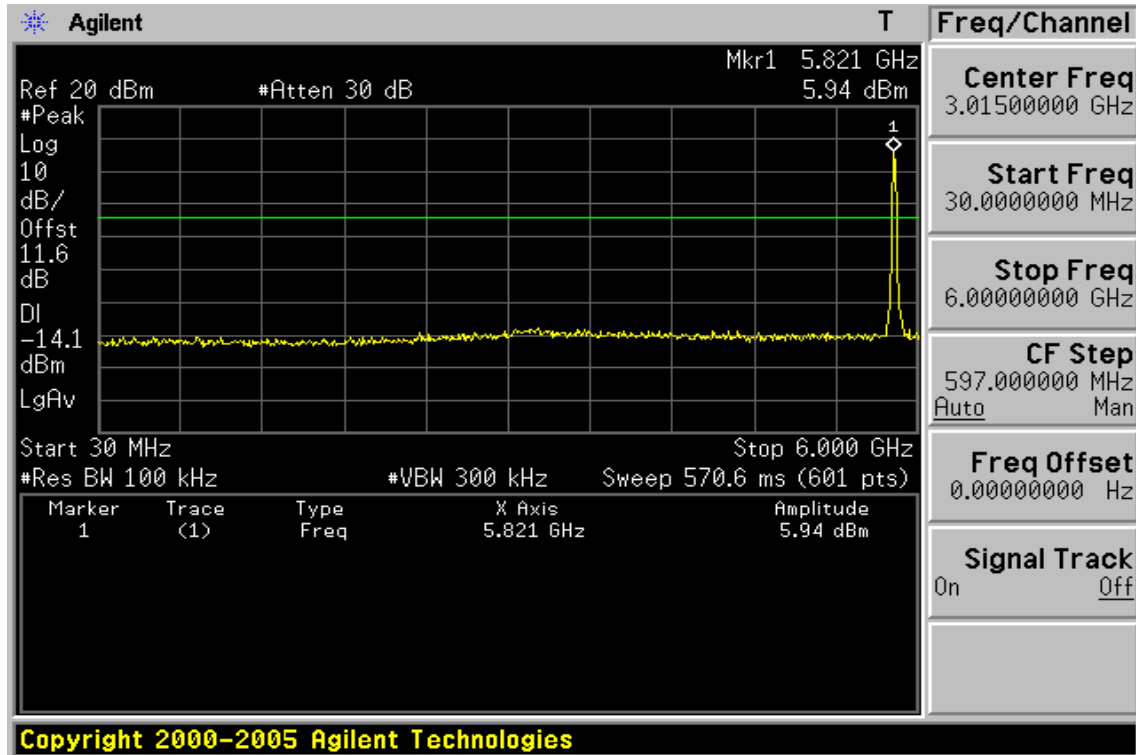
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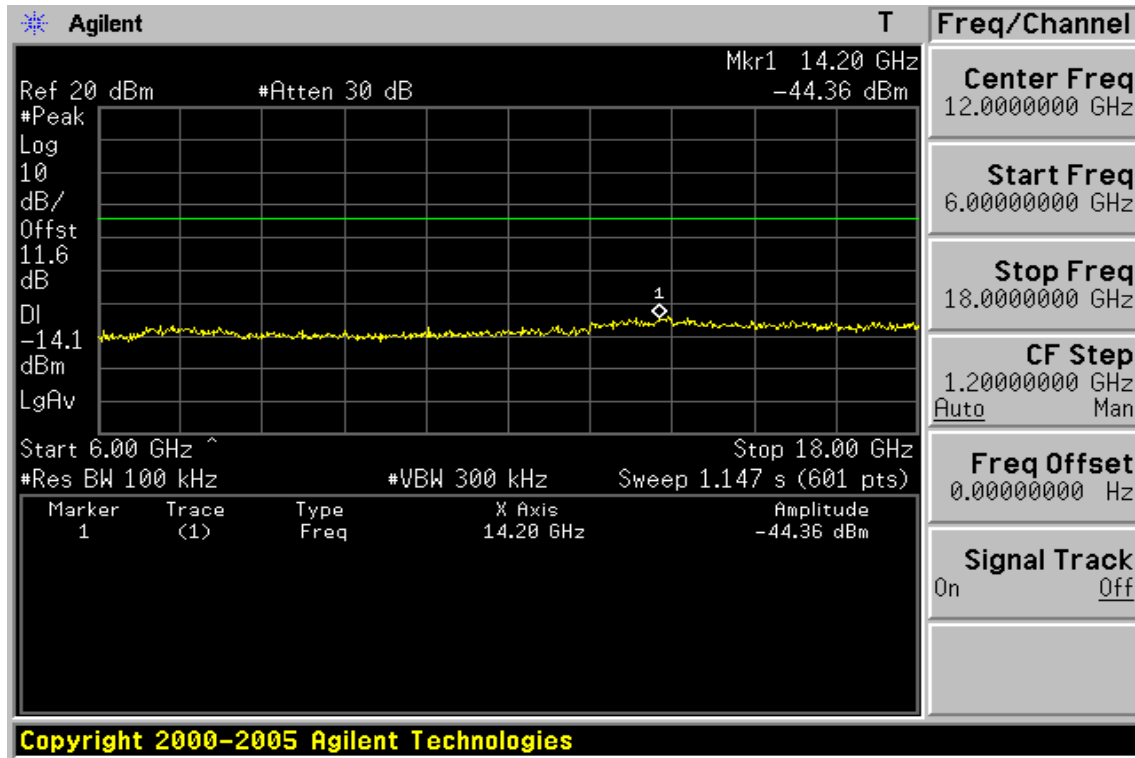
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Ch High 30MHz – 6GHz



Ch High 6GHz – 18GHz



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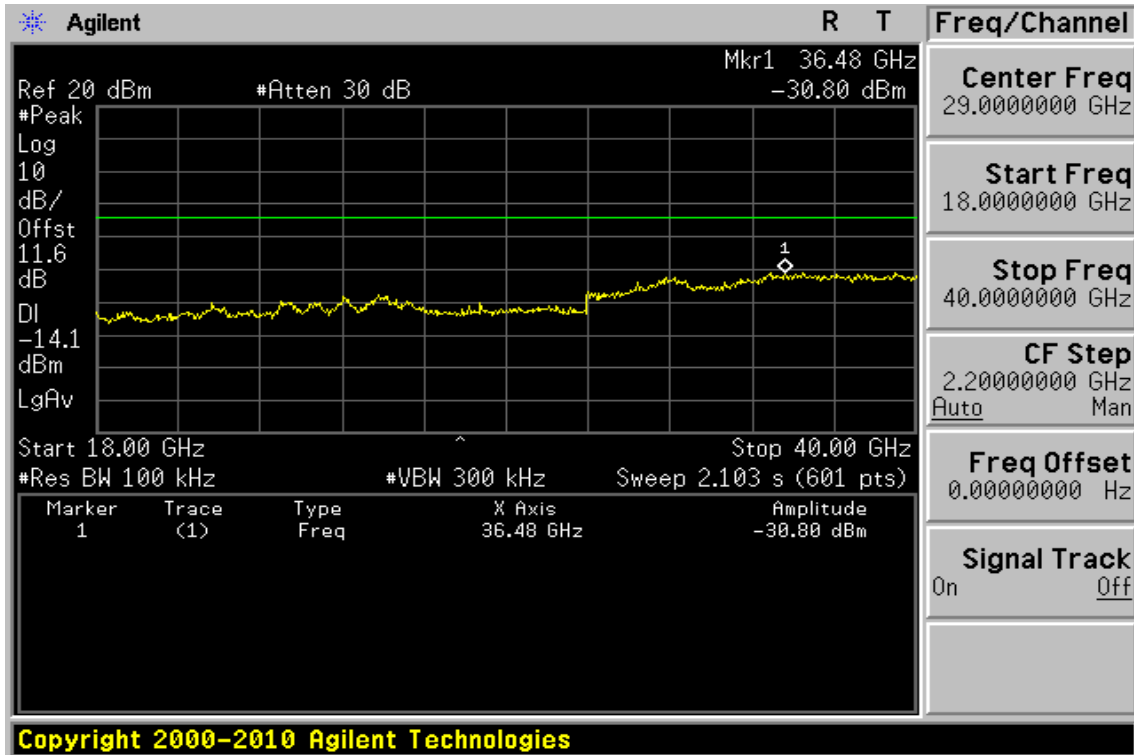
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Ch High 18GHz – 40GHz



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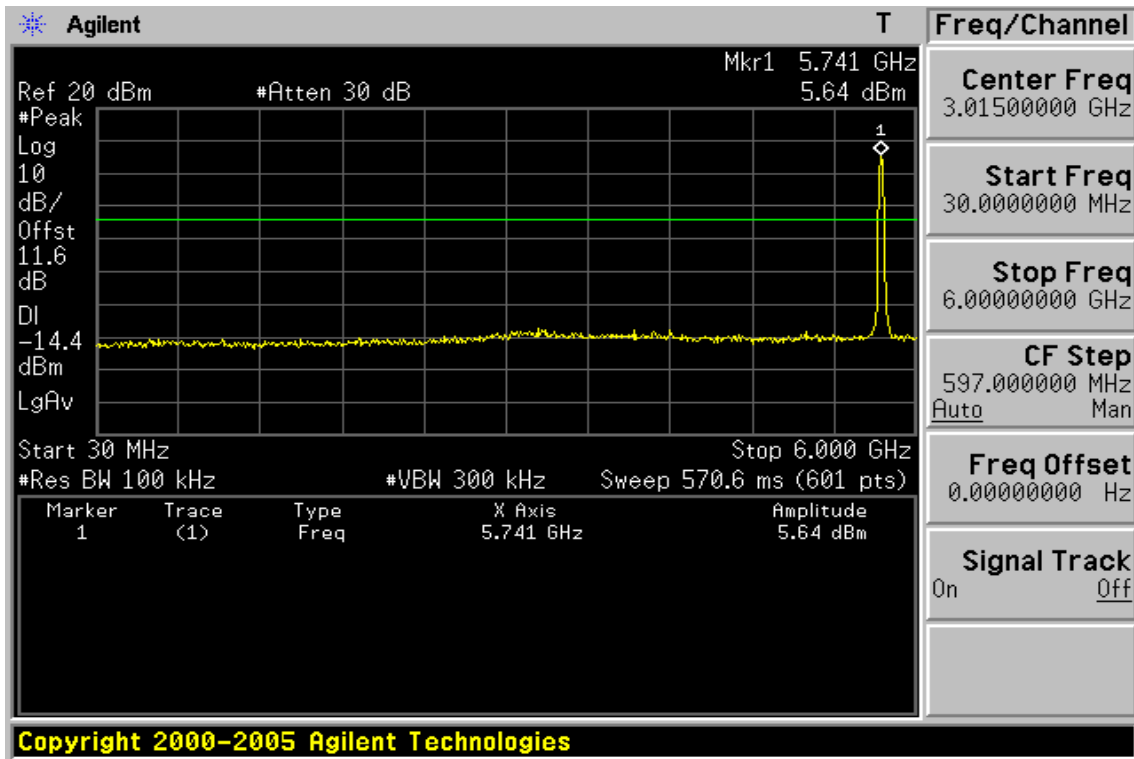
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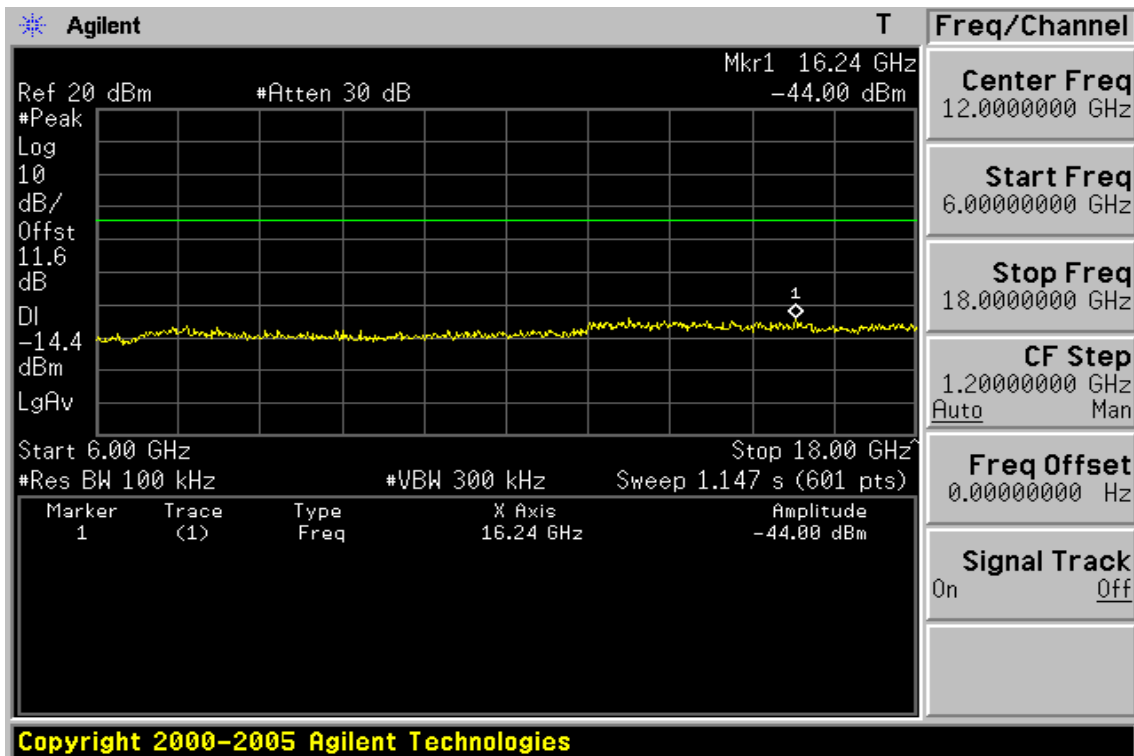
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Conducted Spurious Emission Measurement Result (802.11n(5GHz)_20M) Ch Low 30MHz – 6GHz



Ch Low 6GHz – 18GHz



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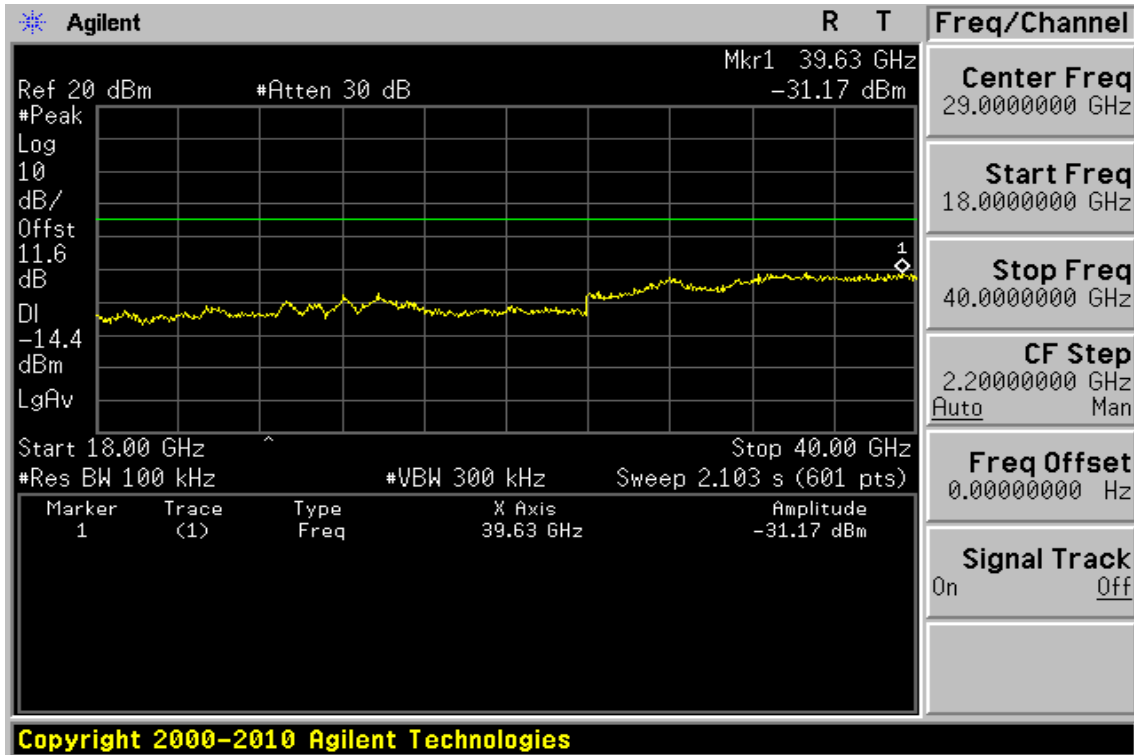
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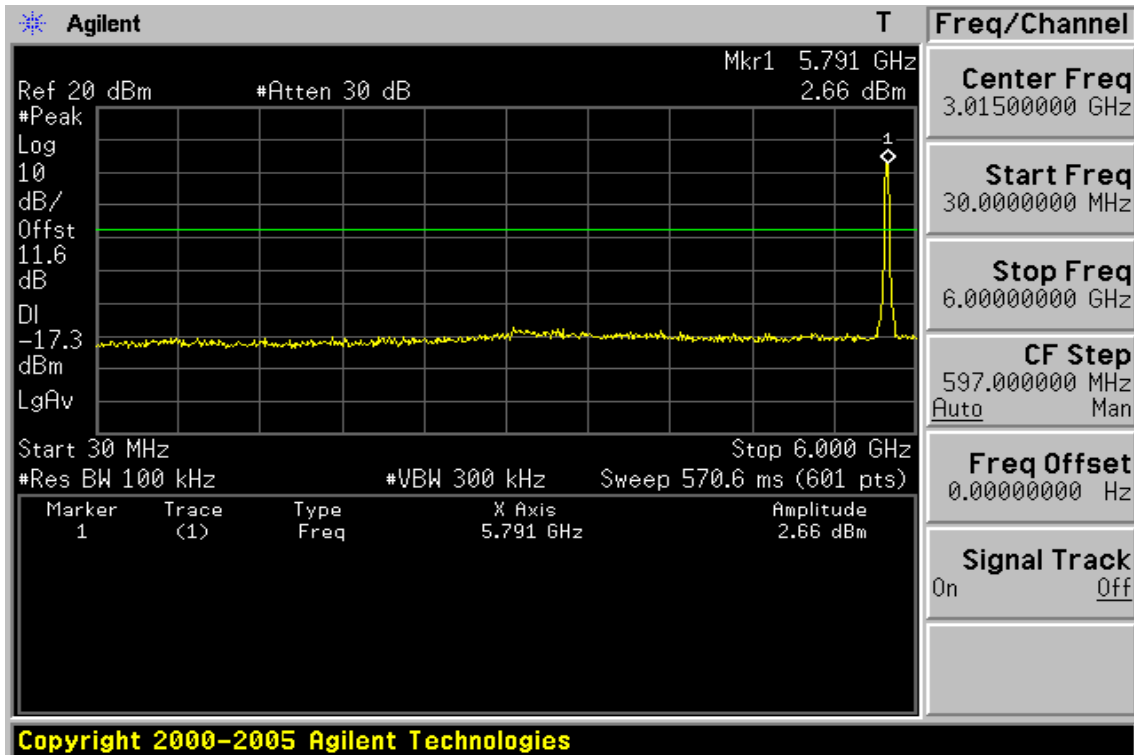
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Ch Low 18GHz – 40GHz



Ch Mid 30MHz – 6GHz



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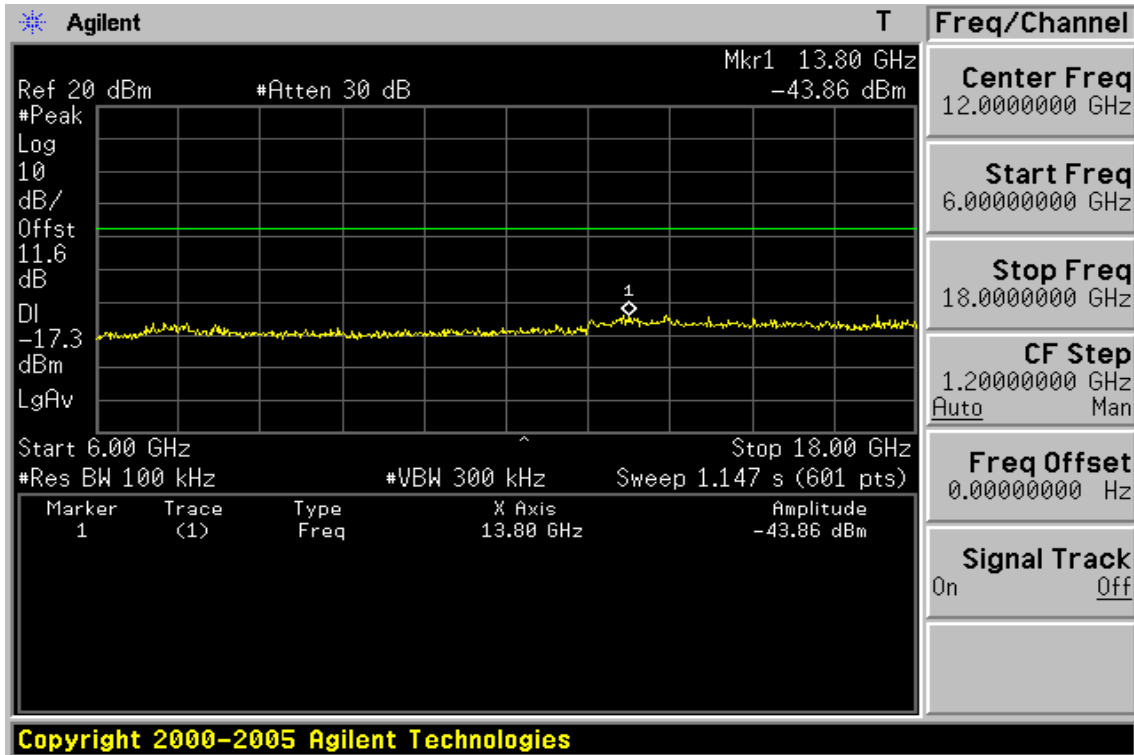
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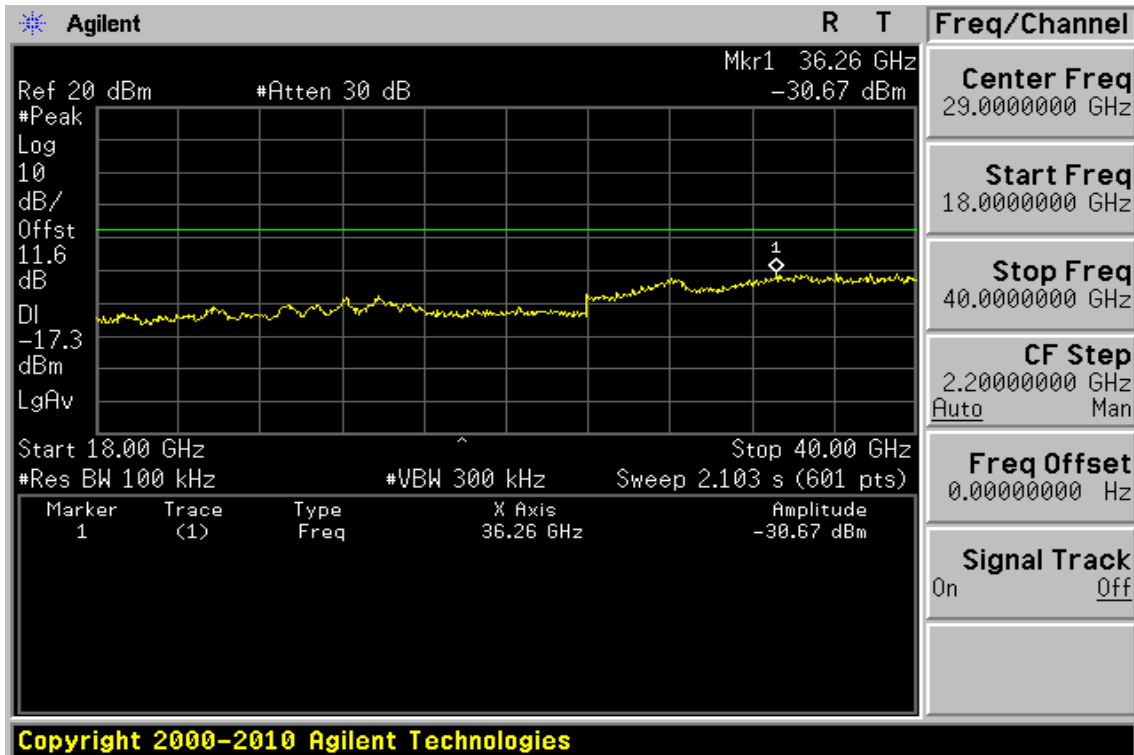
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz



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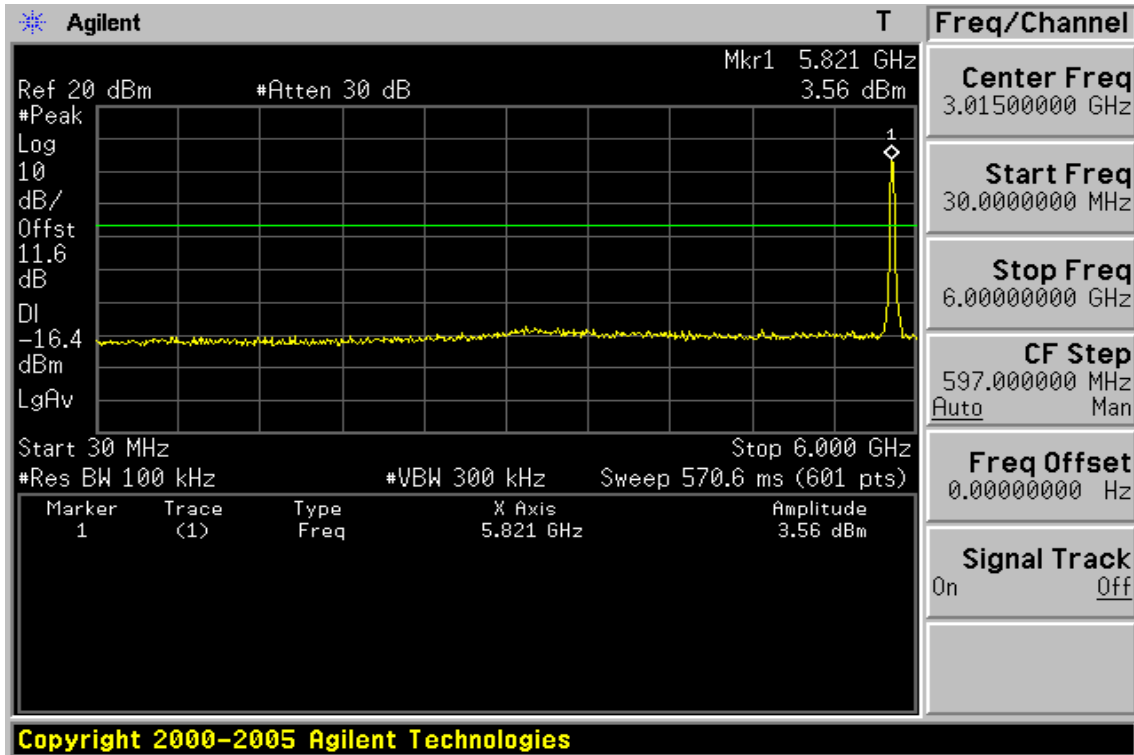
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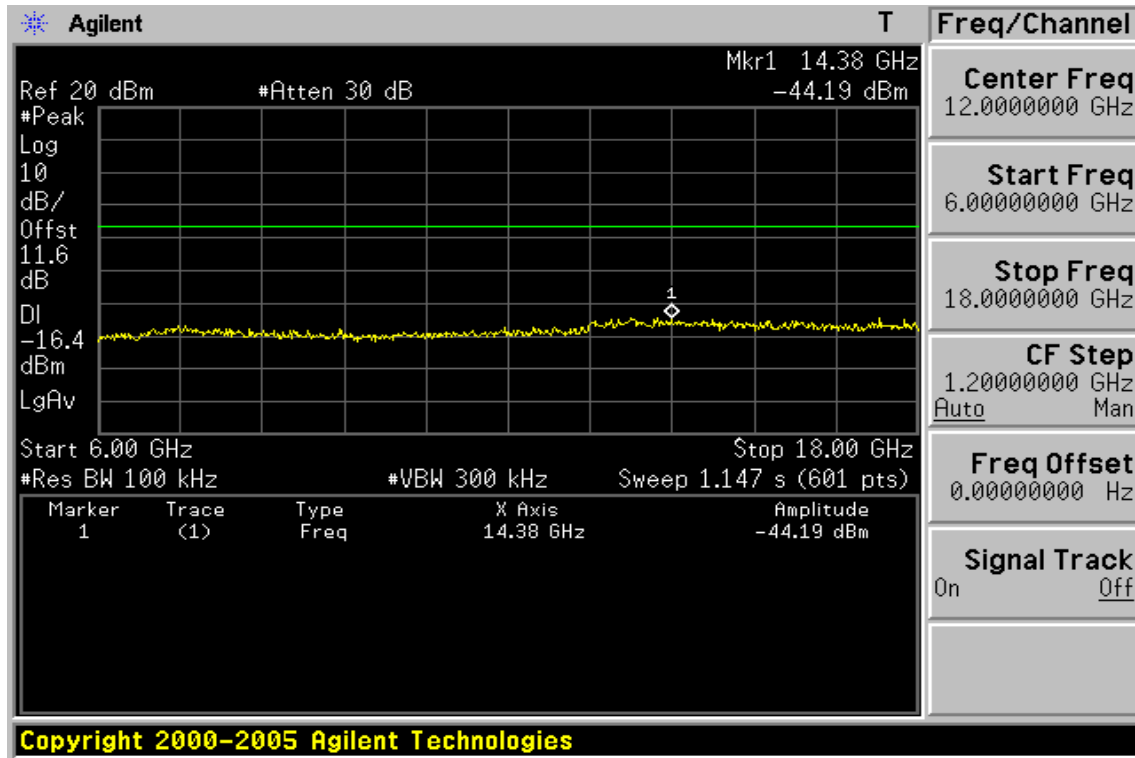
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Ch High 30MHz – 6GHz



Ch High 6GHz – 18GHz



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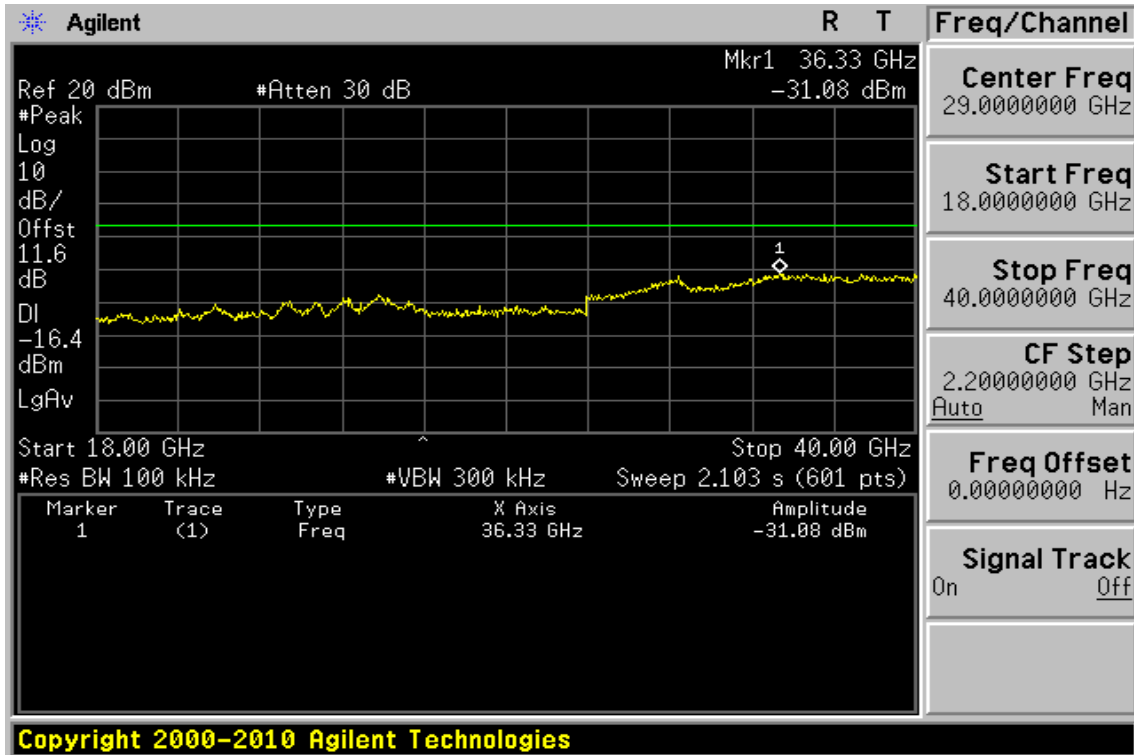
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Ch High 18GHz – 40GHz



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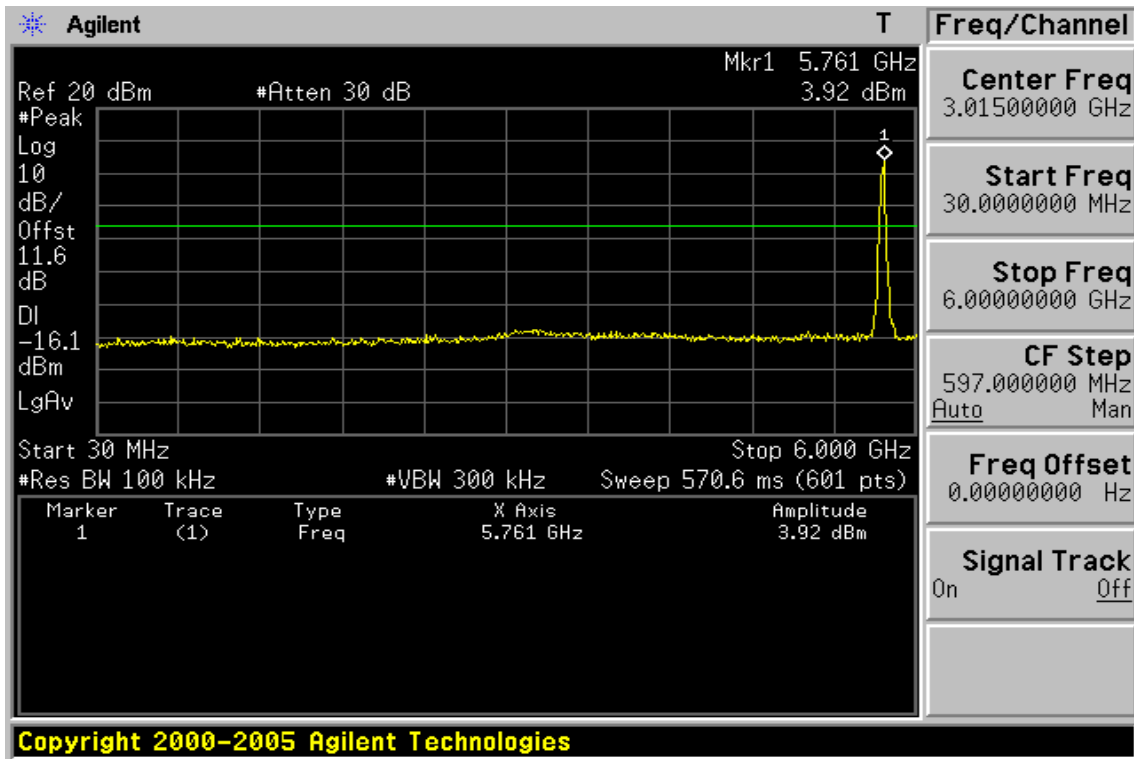
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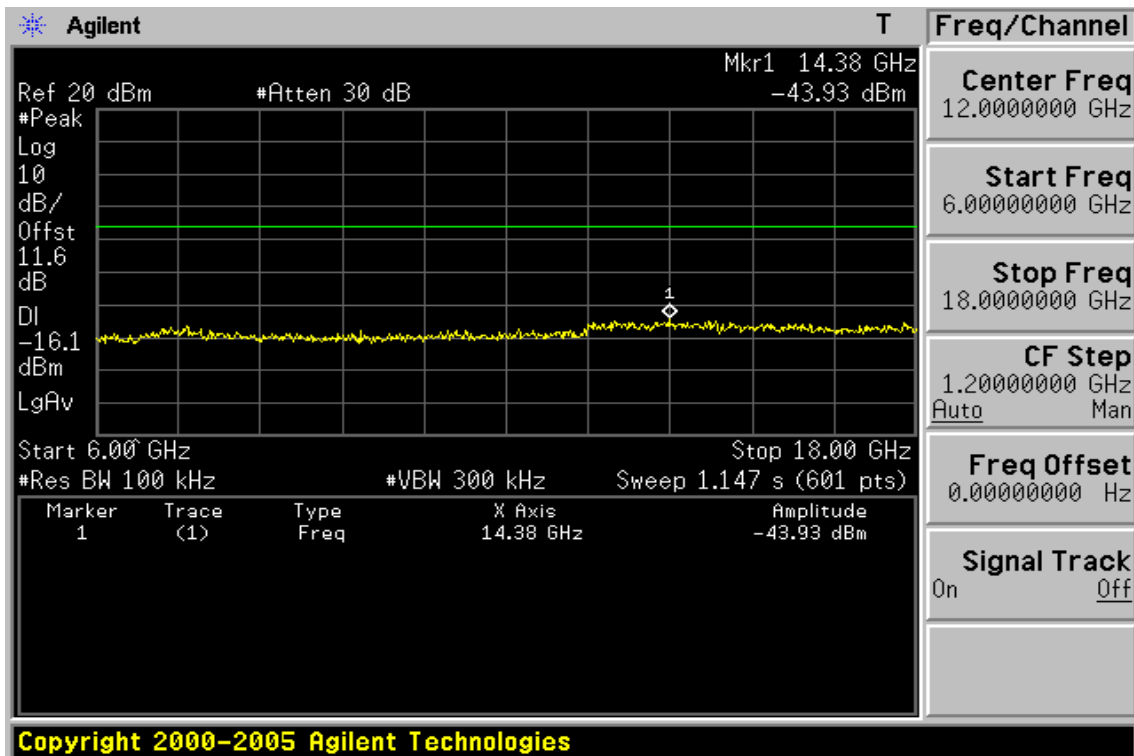
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Conducted Spurious Emission Measurement Result (802.11n(5GHz)_40M) Ch Low 30MHz – 6GHz

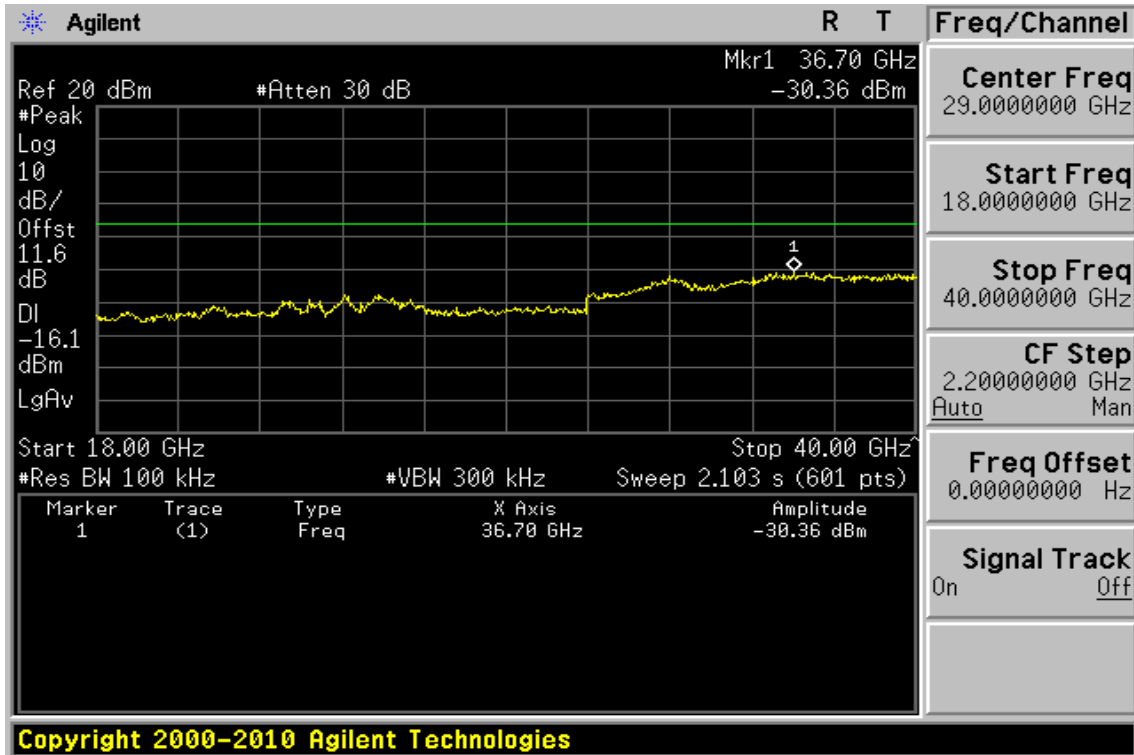


Ch Low 6GHz – 18GHz

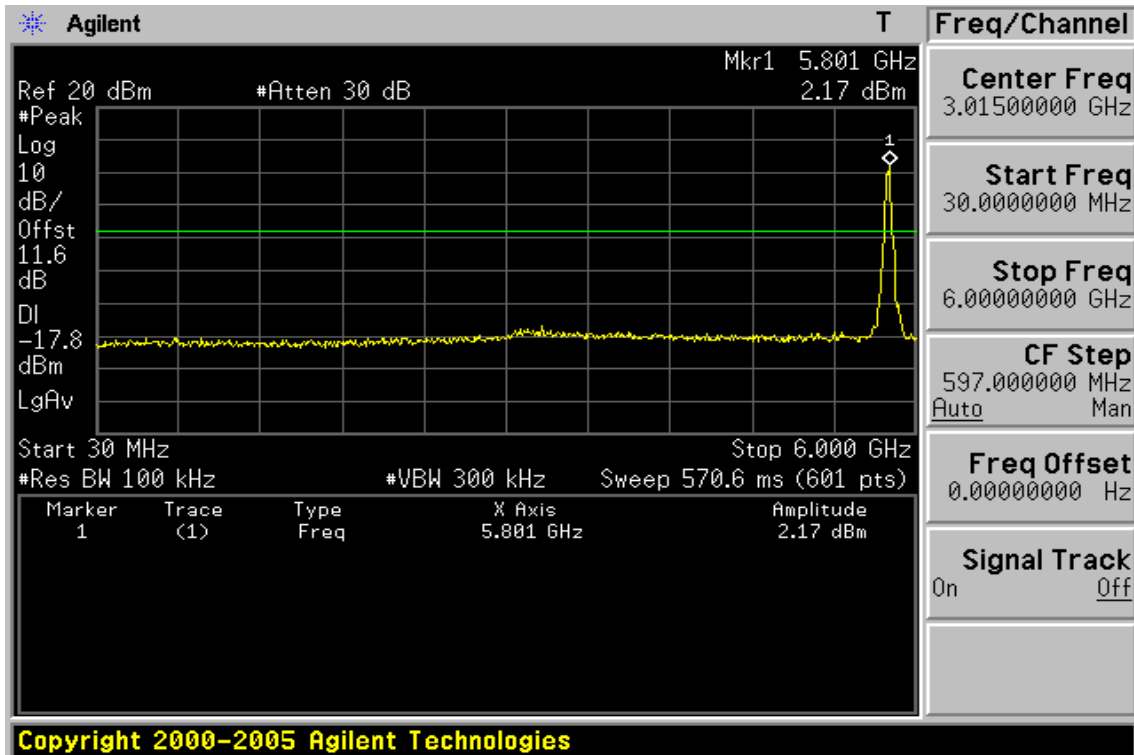


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Ch Low 18GHz – 40GHz



Ch High 30MHz – 6GHz



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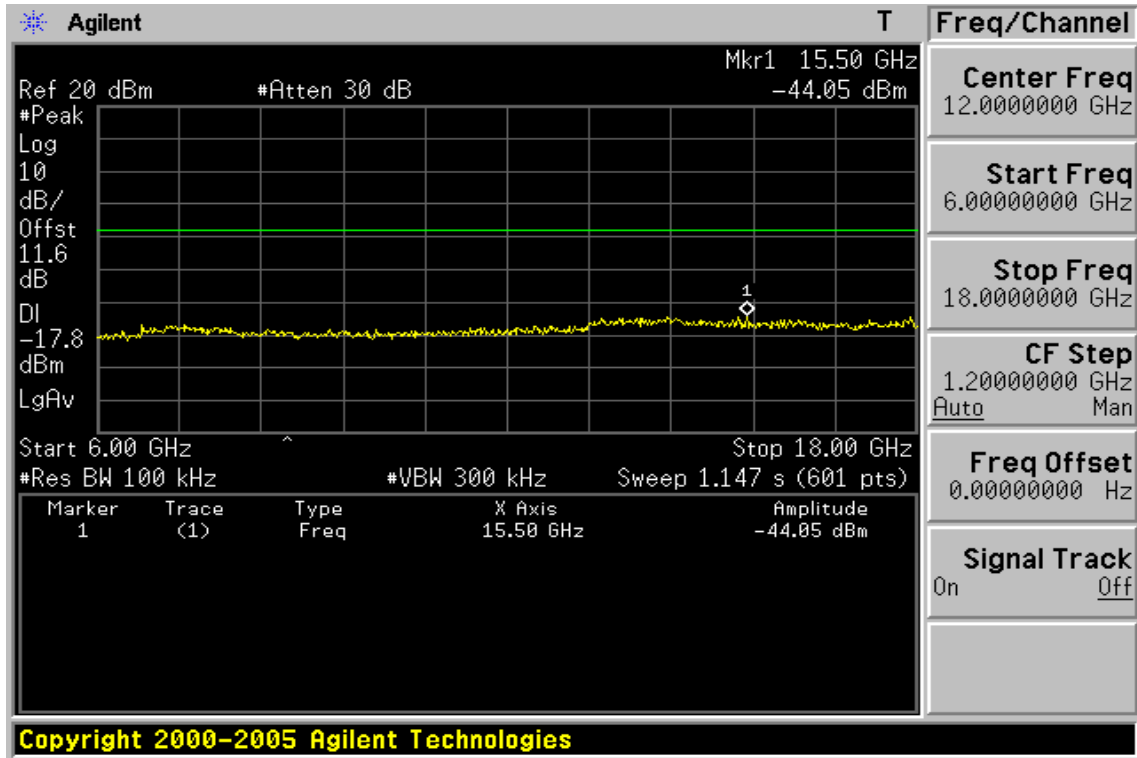
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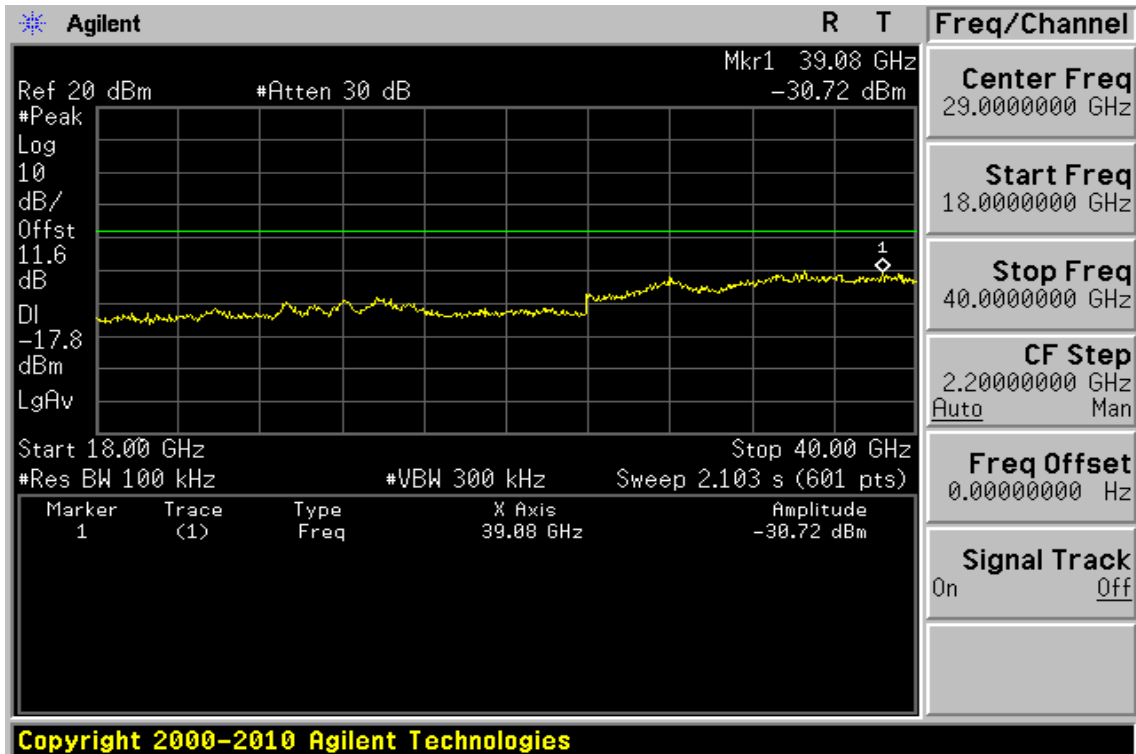
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz



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Radiated Spurious Emission Measurement Result (802.11b)

| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11b | Test Date | :2012-11-28 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 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 | 31.21 | -14.33 | 16.88 | 40.00 | -23.12 |
| 154.16 | S | Peak | 28.05 | -12.30 | 15.75 | 43.50 | -27.75 |
| 343.31 | S | Peak | 27.69 | -11.76 | 15.93 | 46.00 | -30.07 |
| 514.03 | S | Peak | 27.70 | -9.32 | 18.38 | 46.00 | -27.62 |
| 700.27 | S | Peak | 27.59 | -5.75 | 21.84 | 46.00 | -24.16 |
| 918.52 | S | Peak | 26.39 | -2.44 | 23.95 | 46.00 | -22.05 |
| 4824.00 | H | Average | 35.85 | 7.07 | 42.92 | 54.00 | -11.08 |
| 4824.00 | H | Peak | 39.85 | 7.07 | 46.92 | 74.00 | -27.08 |
| 7236.00 | H | --- | | | | | |
| 9648.00 | H | --- | | | | | |
| 12060.00 | H | --- | | | | | |
| 14472.00 | H | --- | | | | | |
| 16884.00 | H | --- | | | | | |
| 19296.00 | H | --- | | | | | |
| 21708.00 | H | --- | | | | | |
| 24120.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11b | Test Date | :2012-11-28 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 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. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 44.55 | S | Peak | 27.25 | -13.76 | 13.49 | 40.00 | -26.51 |
| 159.98 | S | Peak | 27.03 | -12.26 | 14.77 | 43.50 | -28.73 |
| 286.08 | S | Peak | 28.11 | -12.89 | 15.22 | 46.00 | -30.78 |
| 440.31 | S | Peak | 27.67 | -10.20 | 17.47 | 46.00 | -28.53 |
| 590.66 | S | Peak | 28.28 | -7.75 | 20.53 | 46.00 | -25.47 |
| 772.05 | S | Peak | 28.35 | -4.57 | 23.78 | 46.00 | -22.22 |
| 4824.00 | H | Average | 38.51 | 7.08 | 45.59 | 54.00 | -8.41 |
| 4824.00 | H | Peak | 41.67 | 7.08 | 48.75 | 74.00 | -25.25 |
| 7236.00 | H | --- | | | | | |
| 9648.00 | H | --- | | | | | |
| 12060.00 | H | --- | | | | | |
| 14472.00 | H | --- | | | | | |
| 16884.00 | H | --- | | | | | |
| 19296.00 | H | --- | | | | | |
| 21708.00 | H | --- | | | | | |
| 24120.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11b | Test Date | :2012-11-28 |
| Fundamental Frequency | :2437 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :E2 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. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 30.97 | S | Peak | 32.02 | -14.33 | 17.69 | 40.00 | -22.31 |
| 114.39 | S | Peak | 32.23 | -15.22 | 17.01 | 43.50 | -26.49 |
| 286.08 | S | Peak | 28.05 | -12.89 | 15.16 | 46.00 | -30.84 |
| 428.67 | S | Peak | 27.34 | -10.46 | 16.88 | 46.00 | -29.12 |
| 621.70 | S | Peak | 28.17 | -7.09 | 21.08 | 46.00 | -24.92 |
| 836.07 | S | Peak | 28.60 | -3.82 | 24.78 | 46.00 | -21.22 |
| 4874.00 | H | Average | 37.84 | 7.14 | 44.98 | 54.00 | -9.02 |
| 4874.00 | H | Peak | 39.97 | 7.14 | 47.11 | 74.00 | -26.89 |
| 7311.00 | H | --- | | | | | |
| 9748.00 | H | --- | | | | | |
| 12185.00 | H | --- | | | | | |
| 14622.00 | H | --- | | | | | |
| 17059.00 | H | --- | | | | | |
| 19496.00 | H | --- | | | | | |
| 21933.00 | H | --- | | | | | |
| 24370.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11b | Test Date | :2012-11-28 |
| Fundamental Frequency | :2437 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :E2 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. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 50.37 | S | Peak | 27.98 | -13.93 | 14.05 | 40.00 | -25.95 |
| 157.07 | S | Peak | 26.62 | -12.29 | 14.33 | 43.50 | -29.17 |
| 254.07 | S | Peak | 27.67 | -13.89 | 13.78 | 46.00 | -32.22 |
| 488.81 | S | Peak | 28.47 | -9.72 | 18.75 | 46.00 | -27.25 |
| 675.05 | S | Peak | 27.82 | -6.11 | 21.71 | 46.00 | -24.29 |
| 886.51 | S | Peak | 27.67 | -3.07 | 24.60 | 46.00 | -21.40 |
| 4874.00 | H | Average | 40.18 | 7.09 | 47.27 | 54.00 | -6.73 |
| 4874.00 | H | Peak | 42.95 | 7.09 | 50.04 | 74.00 | -23.96 |
| 7311.00 | H | --- | | | | | |
| 9748.00 | H | --- | | | | | |
| 12185.00 | H | --- | | | | | |
| 14622.00 | H | --- | | | | | |
| 17059.00 | H | --- | | | | | |
| 19496.00 | H | --- | | | | | |
| 21933.00 | H | --- | | | | | |
| 24370.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11b | Test Date | :2012-11-28 |
| Fundamental Frequency | :2462 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 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. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 30.97 | S | Peak | 33.00 | -14.33 | 18.67 | 40.00 | -21.33 |
| 114.39 | S | Peak | 32.26 | -15.22 | 17.04 | 43.50 | -26.46 |
| 286.08 | S | Peak | 27.69 | -12.89 | 14.80 | 46.00 | -31.20 |
| 458.74 | S | Peak | 28.44 | -9.98 | 18.46 | 46.00 | -27.54 |
| 650.80 | S | Peak | 28.39 | -6.57 | 21.82 | 46.00 | -24.18 |
| 837.04 | S | Peak | 28.01 | -3.82 | 24.19 | 46.00 | -21.81 |
| 4924.00 | H | Average | 38.97 | 7.18 | 46.15 | 54.00 | -7.85 |
| 4924.00 | H | Peak | 40.94 | 7.18 | 48.12 | 74.00 | -25.88 |
| 7386.00 | H | --- | | | | | |
| 9848.00 | H | --- | | | | | |
| 12310.00 | H | --- | | | | | |
| 14772.00 | H | --- | | | | | |
| 17234.00 | H | --- | | | | | |
| 19696.00 | H | --- | | | | | |
| 22158.00 | H | --- | | | | | |
| 24620.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11b | Test Date | :2012-11-28 |
| Fundamental Frequency | :2462 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 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. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 42.61 | S | Peak | 27.53 | -13.63 | 13.90 | 40.00 | -26.10 |
| 153.19 | S | Peak | 27.72 | -12.32 | 15.40 | 43.50 | -28.10 |
| 320.03 | S | Peak | 27.55 | -12.09 | 15.46 | 46.00 | -30.54 |
| 513.06 | S | Peak | 28.39 | -9.34 | 19.05 | 46.00 | -26.95 |
| 656.62 | S | Peak | 28.77 | -6.46 | 22.31 | 46.00 | -23.69 |
| 869.05 | S | Peak | 28.10 | -3.40 | 24.70 | 46.00 | -21.30 |
| 4924.00 | H | Average | 39.45 | 7.07 | 46.52 | 54.00 | -7.48 |
| 4924.00 | H | Peak | 42.35 | 7.07 | 49.42 | 74.00 | -24.58 |
| 7386.00 | H | --- | | | | | |
| 9848.00 | H | --- | | | | | |
| 12310.00 | H | --- | | | | | |
| 14772.00 | H | --- | | | | | |
| 17234.00 | H | --- | | | | | |
| 19696.00 | H | --- | | | | | |
| 22158.00 | H | --- | | | | | |
| 24620.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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Radiated Spurious Emission Measurement Result (802.11g)

| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11g | Test Date | :2012-11-28 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 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 | 31.82 | -14.33 | 17.49 | 40.00 | -22.51 |
| 114.39 | S | Peak | 32.29 | -15.22 | 17.07 | 43.50 | -26.43 |
| 286.08 | S | Peak | 27.77 | -12.89 | 14.88 | 46.00 | -31.12 |
| 502.39 | S | Peak | 28.70 | -9.54 | 19.16 | 46.00 | -26.84 |
| 736.16 | S | Peak | 28.06 | -5.19 | 22.87 | 46.00 | -23.13 |
| 881.66 | S | Peak | 28.24 | -3.17 | 25.07 | 46.00 | -20.93 |
| 4824.00 | H | Average | 26.65 | 7.07 | 33.72 | 54.00 | -20.28 |
| 4824.00 | H | Peak | 37.22 | 7.07 | 44.29 | 74.00 | -29.71 |
| 7236.00 | H | --- | | | | | |
| 9648.00 | H | --- | | | | | |
| 12060.00 | H | --- | | | | | |
| 14472.00 | H | --- | | | | | |
| 16884.00 | H | --- | | | | | |
| 19296.00 | H | --- | | | | | |
| 21708.00 | H | --- | | | | | |
| 24120.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11g | Test Date | :2012-11-28 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 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. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 59.10 | S | Peak | 27.85 | -14.51 | 13.34 | 40.00 | -26.66 |
| 148.34 | S | Peak | 28.01 | -12.45 | 15.56 | 43.50 | -27.94 |
| 328.76 | S | Peak | 27.51 | -11.94 | 15.57 | 46.00 | -30.43 |
| 508.21 | S | Peak | 27.84 | -9.43 | 18.41 | 46.00 | -27.59 |
| 715.79 | S | Peak | 27.93 | -5.50 | 22.43 | 46.00 | -23.57 |
| 903.00 | S | Peak | 26.86 | -2.75 | 24.11 | 46.00 | -21.89 |
| 4824.00 | H | Average | 27.25 | 7.08 | 34.33 | 54.00 | -19.67 |
| 4824.00 | H | Peak | 40.33 | 7.08 | 47.41 | 74.00 | -26.59 |
| 7236.00 | H | --- | | | | | |
| 9648.00 | H | --- | | | | | |
| 12060.00 | H | --- | | | | | |
| 14472.00 | H | --- | | | | | |
| 16884.00 | H | --- | | | | | |
| 19296.00 | H | --- | | | | | |
| 21708.00 | H | --- | | | | | |
| 24120.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11g | Test Date | :2012-11-28 |
| Fundamental Frequency | :2437 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :E2 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. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 30.00 | S | Peak | 32.61 | -14.37 | 18.24 | 40.00 | -21.76 |
| 114.39 | S | Peak | 32.49 | -15.22 | 17.27 | 43.50 | -26.23 |
| 393.75 | S | Peak | 28.11 | -11.13 | 16.98 | 46.00 | -29.02 |
| 542.16 | S | Peak | 28.27 | -8.74 | 19.53 | 46.00 | -26.47 |
| 667.29 | S | Peak | 28.36 | -6.25 | 22.11 | 46.00 | -23.89 |
| 870.99 | S | Peak | 28.22 | -3.36 | 24.86 | 46.00 | -21.14 |
| 4874.00 | H | Average | 27.93 | 7.14 | 35.07 | 54.00 | -18.93 |
| 4874.00 | H | Peak | 36.87 | 7.14 | 44.01 | 74.00 | -29.99 |
| 7311.00 | H | --- | | | | | |
| 9748.00 | H | --- | | | | | |
| 12185.00 | H | --- | | | | | |
| 14622.00 | H | --- | | | | | |
| 17059.00 | H | --- | | | | | |
| 19496.00 | H | --- | | | | | |
| 21933.00 | H | --- | | | | | |
| 24370.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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Operation Band :802.11g Test Date :2012-11-28
Fundamental Frequency :2437 MHz Temp./Humi. :22.7deg_C/57RH
Operation Mode :TX MID Engineer :Marcus
EUT Pol. :E2 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. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 48.43 | S | Peak | 28.17 | -13.88 | 14.29 | 40.00 | -25.71 |
| 151.25 | S | Peak | 27.70 | -12.34 | 15.36 | 43.50 | -28.14 |
| 351.07 | S | Peak | 26.84 | -11.68 | 15.16 | 46.00 | -30.84 |
| 537.31 | S | Peak | 29.05 | -8.84 | 20.21 | 46.00 | -25.79 |
| 693.48 | S | Peak | 27.51 | -5.84 | 21.67 | 46.00 | -24.33 |
| 873.90 | S | Peak | 27.43 | -3.31 | 24.12 | 46.00 | -21.88 |
| 4874.00 | H | Average | 28.34 | 7.09 | 35.43 | 54.00 | -18.57 |
| 4874.00 | H | Peak | 37.59 | 7.09 | 44.68 | 74.00 | -29.32 |
| 7311.00 | H | --- | | | | | |
| 9748.00 | H | --- | | | | | |
| 12185.00 | H | --- | | | | | |
| 14622.00 | H | --- | | | | | |
| 17059.00 | H | --- | | | | | |
| 19496.00 | H | --- | | | | | |
| 21933.00 | H | --- | | | | | |
| 24370.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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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|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11g | Test Date | :2012-11-28 |
| Fundamental Frequency | :2462 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 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. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 30.97 | S | Peak | 32.15 | -14.33 | 17.82 | 40.00 | -22.18 |
| 114.39 | S | Peak | 32.79 | -15.22 | 17.57 | 43.50 | -25.93 |
| 286.08 | S | Peak | 28.70 | -12.89 | 15.81 | 46.00 | -30.19 |
| 452.92 | S | Peak | 28.59 | -10.01 | 18.58 | 46.00 | -27.42 |
| 682.81 | S | Peak | 27.95 | -5.98 | 21.97 | 46.00 | -24.03 |
| 835.10 | S | Peak | 28.71 | -3.84 | 24.87 | 46.00 | -21.13 |
| 4924.00 | H | Average | 27.72 | 7.19 | 34.91 | 54.00 | -19.09 |
| 4924.00 | H | Peak | 38.37 | 7.19 | 45.56 | 74.00 | -28.44 |
| 7386.00 | H | --- | | | | | |
| 9848.00 | H | --- | | | | | |
| 12310.00 | H | --- | | | | | |
| 14772.00 | H | --- | | | | | |
| 17234.00 | H | --- | | | | | |
| 19696.00 | H | --- | | | | | |
| 22158.00 | H | --- | | | | | |
| 24620.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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Operation Band :802.11g Test Date :2012-11-28
Fundamental Frequency :2462 MHz Temp./Humi. :22.7deg_C/57RH
Operation Mode :TX HIGH Engineer :Marcus
EUT Pol. :E2 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. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 41.64 | S | Peak | 28.26 | -13.56 | 14.70 | 40.00 | -25.30 |
| 144.46 | S | Peak | 27.34 | -12.74 | 14.60 | 43.50 | -28.90 |
| 329.73 | S | Peak | 27.99 | -11.92 | 16.07 | 46.00 | -29.93 |
| 495.60 | S | Peak | 28.27 | -9.63 | 18.64 | 46.00 | -27.36 |
| 676.02 | S | Peak | 27.98 | -6.10 | 21.88 | 46.00 | -24.12 |
| 827.34 | S | Peak | 27.60 | -3.90 | 23.70 | 46.00 | -22.30 |
| 4924.00 | H | Average | 28.69 | 7.08 | 35.77 | 54.00 | -18.23 |
| 4924.00 | H | Peak | 39.07 | 7.08 | 46.15 | 74.00 | -27.85 |
| 7386.00 | H | --- | | | | | |
| 9848.00 | H | --- | | | | | |
| 12310.00 | H | --- | | | | | |
| 14772.00 | H | --- | | | | | |
| 17234.00 | H | --- | | | | | |
| 19696.00 | H | --- | | | | | |
| 22158.00 | H | --- | | | | | |
| 24620.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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_20M)

| | | | |
|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n 20M | Test Date | :2012-11-28 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 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 | 30.92 | -14.33 | 16.59 | 40.00 | -23.41 |
| 114.39 | S | Peak | 32.86 | -15.22 | 17.64 | 43.50 | -25.86 |
| 295.78 | S | Peak | 27.25 | -12.66 | 14.59 | 46.00 | -31.41 |
| 455.83 | S | Peak | 28.09 | -9.99 | 18.10 | 46.00 | -27.90 |
| 630.43 | S | Peak | 28.07 | -6.92 | 21.15 | 46.00 | -24.85 |
| 885.54 | S | Peak | 27.28 | -3.09 | 24.19 | 46.00 | -21.81 |
| 4824.00 | H | Average | 27.53 | 7.07 | 34.60 | 54.00 | -19.40 |
| 4824.00 | H | Peak | 37.62 | 7.07 | 44.69 | 74.00 | -29.31 |
| 7236.00 | H | --- | | | | | |
| 9648.00 | H | --- | | | | | |
| 12060.00 | H | --- | | | | | |
| 14472.00 | H | --- | | | | | |
| 16884.00 | H | --- | | | | | |
| 19296.00 | H | --- | | | | | |
| 21708.00 | H | --- | | | | | |
| 24120.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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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| | | | |
|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n 20M | Test Date | :2012-11-28 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 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 |
| 37.76 | S | Peak | 27.71 | -13.72 | 13.99 | 40.00 | -26.01 |
| 159.01 | S | Peak | 27.44 | -12.28 | 15.16 | 43.50 | -28.34 |
| 338.46 | S | Peak | 27.70 | -11.83 | 15.87 | 46.00 | -30.13 |
| 517.91 | S | Peak | 27.84 | -9.25 | 18.59 | 46.00 | -27.41 |
| 700.27 | S | Peak | 28.45 | -5.75 | 22.70 | 46.00 | -23.30 |
| 922.40 | S | Peak | 27.99 | -2.37 | 25.62 | 46.00 | -20.38 |
| 4824.00 | H | Average | 28.12 | 7.08 | 35.20 | 54.00 | -18.80 |
| 4824.00 | H | Peak | 38.39 | 7.08 | 45.47 | 74.00 | -28.53 |
| 7236.00 | H | --- | | | | | |
| 9648.00 | H | --- | | | | | |
| 12060.00 | H | --- | | | | | |
| 14472.00 | H | --- | | | | | |
| 16884.00 | H | --- | | | | | |
| 19296.00 | H | --- | | | | | |
| 21708.00 | H | --- | | | | | |
| 24120.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n 20M | Test Date | :2012-11-28 |
| Fundamental Frequency | :2437 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |

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

Factor(dB) = Antenna Factor(dB μ V/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 | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 30.97 | S | Peak | 31.57 | -14.33 | 17.24 | 40.00 | -22.76 |
| 114.39 | S | Peak | 32.92 | -15.22 | 17.70 | 43.50 | -25.80 |
| 291.90 | S | Peak | 27.04 | -12.76 | 14.28 | 46.00 | -31.72 |
| 458.74 | S | Peak | 27.50 | -9.98 | 17.52 | 46.00 | -28.48 |
| 629.46 | S | Peak | 27.85 | -6.94 | 20.91 | 46.00 | -25.09 |
| 875.84 | S | Peak | 27.81 | -3.29 | 24.52 | 46.00 | -21.48 |
| 4874.00 | H | Average | 28.59 | 7.14 | 35.73 | 54.00 | -18.27 |
| 4874.00 | H | Peak | 36.82 | 7.14 | 43.96 | 74.00 | -30.04 |
| 7311.00 | H | --- | | | | | |
| 9748.00 | H | --- | | | | | |
| 12185.00 | H | --- | | | | | |
| 14622.00 | H | --- | | | | | |
| 17059.00 | H | --- | | | | | |
| 19496.00 | H | --- | | | | | |
| 21933.00 | H | --- | | | | | |
| 24370.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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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Operation Band :802.11n 20M Test Date :2012-11-28
Fundamental Frequency :2437 MHz Temp./Humi. :22.7deg_C/57RH
Operation Mode :TX MID Engineer :Marcus
EUT Pol. :E2 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. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 35.82 | S | Peak | 27.28 | -13.99 | 13.29 | 40.00 | -26.71 |
| 163.86 | S | Peak | 28.31 | -12.61 | 15.70 | 43.50 | -27.80 |
| 285.11 | S | Peak | 27.27 | -12.92 | 14.35 | 46.00 | -31.65 |
| 462.62 | S | Peak | 28.43 | -9.94 | 18.49 | 46.00 | -27.51 |
| 632.37 | S | Peak | 28.47 | -6.90 | 21.57 | 46.00 | -24.43 |
| 864.20 | S | Peak | 28.21 | -3.47 | 24.74 | 46.00 | -21.26 |
| 4874.00 | H | Average | 27.41 | 7.09 | 34.50 | 54.00 | -19.50 |
| 4874.00 | H | Peak | 37.56 | 7.09 | 44.65 | 74.00 | -29.35 |
| 7311.00 | H | --- | | | | | |
| 9748.00 | H | --- | | | | | |
| 12185.00 | H | --- | | | | | |
| 14622.00 | H | --- | | | | | |
| 17059.00 | H | --- | | | | | |
| 19496.00 | H | --- | | | | | |
| 21933.00 | H | --- | | | | | |
| 24370.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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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Operation Band :802.11n 20M Test Date :2012-11-28
Fundamental Frequency :2462 MHz Temp./Humi. :22.7deg_C/57RH
Operation Mode :TX HIGH Engineer :Marcus
EUT Pol. :E2 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. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 30.97 | S | Peak | 31.45 | -14.33 | 17.12 | 40.00 | -22.88 |
| 114.39 | S | Peak | 33.41 | -15.22 | 18.19 | 43.50 | -25.31 |
| 286.08 | S | Peak | 27.92 | -12.89 | 15.03 | 46.00 | -30.97 |
| 495.60 | S | Peak | 28.60 | -9.63 | 18.97 | 46.00 | -27.03 |
| 666.32 | S | Peak | 28.51 | -6.27 | 22.24 | 46.00 | -23.76 |
| 926.28 | S | Peak | 28.10 | -2.31 | 25.79 | 46.00 | -20.21 |
| 4924.00 | H | Average | 27.11 | 7.19 | 34.30 | 54.00 | -19.70 |
| 4924.00 | H | Peak | 37.94 | 7.19 | 45.13 | 74.00 | -28.87 |
| 7386.00 | H | --- | | | | | |
| 9848.00 | H | --- | | | | | |
| 12310.00 | H | --- | | | | | |
| 14772.00 | H | --- | | | | | |
| 17234.00 | H | --- | | | | | |
| 19696.00 | H | --- | | | | | |
| 22158.00 | H | --- | | | | | |
| 24620.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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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Operation Band :802.11n 20M Test Date :2012-11-28
Fundamental Frequency :2462 MHz Temp./Humi. :22.7deg_C/57RH
Operation Mode :TX HIGH Engineer :Marcus
EUT Pol. :E2 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. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 50.37 | S | Peak | 27.33 | -13.93 | 13.40 | 40.00 | -26.60 |
| 153.19 | S | Peak | 26.95 | -12.32 | 14.63 | 43.50 | -28.87 |
| 357.86 | S | Peak | 27.90 | -11.58 | 16.32 | 46.00 | -29.68 |
| 476.20 | S | Peak | 28.54 | -9.84 | 18.70 | 46.00 | -27.30 |
| 672.14 | S | Peak | 27.90 | -6.16 | 21.74 | 46.00 | -24.26 |
| 909.79 | S | Peak | 27.95 | -2.62 | 25.33 | 46.00 | -20.67 |
| 4924.00 | H | Average | 28.07 | 7.08 | 35.15 | 54.00 | -18.85 |
| 4924.00 | H | Peak | 37.66 | 7.08 | 44.74 | 74.00 | -29.26 |
| 7386.00 | H | --- | | | | | |
| 9848.00 | H | --- | | | | | |
| 12310.00 | H | --- | | | | | |
| 14772.00 | H | --- | | | | | |
| 17234.00 | H | --- | | | | | |
| 19696.00 | H | --- | | | | | |
| 22158.00 | H | --- | | | | | |
| 24620.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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Radiated Spurious Emission Measurement Result (802.11a)

| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-28 |
| Fundamental Frequency | :5745 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 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 | 31.23 | -14.33 | 16.90 | 40.00 | -23.10 |
| 114.39 | S | Peak | 33.18 | -15.22 | 17.96 | 43.50 | -25.54 |
| 286.08 | S | Peak | 27.64 | -12.89 | 14.75 | 46.00 | -31.25 |
| 448.07 | S | Peak | 28.35 | -10.06 | 18.29 | 46.00 | -27.71 |
| 664.38 | S | Peak | 28.75 | -6.30 | 22.45 | 46.00 | -23.55 |
| 885.54 | S | Peak | 27.63 | -3.09 | 24.54 | 46.00 | -21.46 |
| 11490.00 | H | Peak | 19.80 | 17.60 | 37.40 | 74.00 | -36.60 |
| 17235.00 | H | --- | | | | | |
| 22980.00 | H | --- | | | | | |
| 28725.00 | H | --- | | | | | |
| 34470.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-28 |
| Fundamental Frequency | :5745 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 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. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 39.70 | S | Peak | 26.74 | -13.47 | 13.27 | 40.00 | -26.73 |
| 132.82 | S | Peak | 28.23 | -13.67 | 14.56 | 43.50 | -28.94 |
| 309.36 | S | Peak | 27.73 | -12.35 | 15.38 | 46.00 | -30.62 |
| 450.98 | S | Peak | 28.54 | -10.01 | 18.53 | 46.00 | -27.47 |
| 633.34 | S | Peak | 27.71 | -6.89 | 20.82 | 46.00 | -25.18 |
| 908.82 | S | Peak | 28.00 | -2.63 | 25.37 | 46.00 | -20.63 |
| 11490.00 | H | Peak | 18.86 | 17.40 | 36.26 | 74.00 | -37.74 |
| 17235.00 | H | --- | | | | | |
| 22980.00 | H | --- | | | | | |
| 28725.00 | H | --- | | | | | |
| 34470.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-28 |
| Fundamental Frequency | :5785 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :E2 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. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 30.00 | S | Peak | 31.21 | -14.37 | 16.84 | 40.00 | -23.16 |
| 114.39 | S | Peak | 33.07 | -15.22 | 17.85 | 43.50 | -25.65 |
| 357.86 | S | Peak | 28.34 | -11.58 | 16.76 | 46.00 | -29.24 |
| 554.77 | S | Peak | 28.67 | -8.50 | 20.17 | 46.00 | -25.83 |
| 755.56 | S | Peak | 28.36 | -4.88 | 23.48 | 46.00 | -22.52 |
| 935.01 | S | Peak | 27.46 | -2.24 | 25.22 | 46.00 | -20.78 |
| 11570.00 | H | Peak | 18.42 | 17.69 | 36.11 | 74.00 | -37.89 |
| 17355.00 | H | --- | | | | | |
| 23140.00 | H | --- | | | | | |
| 28925.00 | H | --- | | | | | |
| 34710.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-28 |
| Fundamental Frequency | :5785 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :E2 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 |
| 40.67 | S | Peak | 26.83 | -13.48 | 13.35 | 40.00 | -26.65 |
| 141.55 | S | Peak | 27.46 | -12.98 | 14.48 | 43.50 | -29.02 |
| 350.10 | S | Peak | 27.63 | -11.69 | 15.94 | 46.00 | -30.06 |
| 548.95 | S | Peak | 29.12 | -8.60 | 20.52 | 46.00 | -25.48 |
| 733.25 | S | Peak | 27.64 | -5.24 | 22.40 | 46.00 | -23.60 |
| 918.52 | S | Peak | 27.07 | -2.44 | 24.63 | 46.00 | -21.37 |
| 11570.00 | H | Peak | 19.24 | 17.49 | 36.73 | 74.00 | -37.27 |
| 17355.00 | H | --- | | | | | |
| 23140.00 | H | --- | | | | | |
| 28925.00 | H | --- | | | | | |
| 34710.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-28 |
| Fundamental Frequency | :5825 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 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 |
| 42.61 | S | Peak | 28.09 | -13.63 | 14.46 | 40.00 | -25.54 |
| 114.39 | S | Peak | 32.71 | -15.22 | 17.49 | 43.50 | -26.01 |
| 286.08 | S | Peak | 27.51 | -12.89 | 14.62 | 46.00 | -31.38 |
| 420.91 | S | Peak | 28.52 | -10.63 | 17.89 | 46.00 | -28.11 |
| 647.89 | S | Peak | 28.50 | -6.64 | 21.86 | 46.00 | -24.14 |
| 790.48 | S | Peak | 28.63 | -4.32 | 24.31 | 46.00 | -21.69 |
| 11650.00 | H | Peak | 20.08 | 17.78 | 37.86 | 74.00 | -36.14 |
| 17475.00 | H | --- | | | | | |
| 23300.00 | H | --- | | | | | |
| 29125.00 | H | --- | | | | | |
| 34950.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-28 |
| Fundamental Frequency | :5825 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 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 |
| 58.13 | S | Peak | 27.48 | -14.45 | 13.03 | 40.00 | -26.97 |
| 150.28 | S | Peak | 28.09 | -12.35 | 15.74 | 43.50 | -27.76 |
| 319.06 | S | Peak | 26.46 | -12.13 | 14.33 | 46.00 | -31.67 |
| 457.77 | S | Peak | 28.03 | -9.99 | 18.04 | 46.00 | -27.96 |
| 665.35 | S | Peak | 28.54 | -6.28 | 22.26 | 46.00 | -23.74 |
| 899.12 | S | Peak | 27.25 | -2.83 | 24.42 | 46.00 | -21.58 |
| 11650.00 | H | Peak | 18.79 | 17.58 | 36.37 | 74.00 | -37.63 |
| 17475.00 | H | --- | | | | | |
| 23300.00 | H | --- | | | | | |
| 29125.00 | H | --- | | | | | |
| 34950.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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(5GHz)_20M)

| | | | |
|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n 20M | Test Date | :2012-11-28 |
| Fundamental Frequency | :5745 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 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 | 31.66 | -14.30 | 17.36 | 40.00 | -22.64 |
| 114.39 | S | Peak | 32.33 | -15.22 | 17.11 | 43.50 | -26.39 |
| 315.18 | S | Peak | 28.15 | -12.20 | 15.95 | 46.00 | -30.05 |
| 455.83 | S | Peak | 28.64 | -9.99 | 18.65 | 46.00 | -27.35 |
| 645.95 | S | Peak | 28.60 | -6.66 | 21.94 | 46.00 | -24.06 |
| 833.16 | S | Peak | 28.18 | -3.85 | 24.33 | 46.00 | -21.67 |
| 11490.00 | H | Peak | 19.57 | 17.60 | 37.17 | 74.00 | -36.83 |
| 17235.00 | H | --- | | | | | |
| 22980.00 | H | --- | | | | | |
| 28725.00 | H | --- | | | | | |
| 34470.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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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| | | | |
|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n 20M | Test Date | :2012-11-28 |
| Fundamental Frequency | :5745 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 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. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 42.61 | S | Peak | 27.41 | -13.63 | 13.78 | 40.00 | -26.22 |
| 153.19 | S | Peak | 27.10 | -12.32 | 14.78 | 43.50 | -28.72 |
| 286.08 | S | Peak | 27.54 | -12.89 | 14.65 | 46.00 | -31.35 |
| 491.72 | S | Peak | 27.70 | -9.69 | 18.01 | 46.00 | -27.99 |
| 662.44 | S | Peak | 28.33 | -6.34 | 21.99 | 46.00 | -24.01 |
| 832.19 | S | Peak | 28.32 | -3.86 | 24.46 | 46.00 | -21.54 |
| 11490.00 | H | Peak | 19.04 | 17.40 | 36.44 | 74.00 | -37.56 |
| 17235.00 | H | --- | | | | | |
| 22980.00 | H | --- | | | | | |
| 28725.00 | H | --- | | | | | |
| 34470.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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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| | | | |
|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n 20M | Test Date | :2012-11-28 |
| Fundamental Frequency | :5785 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :E2 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 |
| 30.00 | S | Peak | 32.91 | -14.37 | 18.54 | 40.00 | -21.46 |
| 114.39 | S | Peak | 31.82 | -15.22 | 16.60 | 43.50 | -26.90 |
| 286.08 | S | Peak | 28.03 | -12.89 | 15.14 | 46.00 | -30.86 |
| 457.77 | S | Peak | 28.78 | -9.99 | 18.79 | 46.00 | -27.21 |
| 655.65 | S | Peak | 28.57 | -6.47 | 22.10 | 46.00 | -23.90 |
| 870.02 | S | Peak | 28.00 | -3.39 | 24.61 | 46.00 | -21.39 |
| 11570.00 | H | Peak | 19.60 | 17.69 | 37.29 | 74.00 | -36.71 |
| 17355.00 | H | --- | | | | | |
| 23140.00 | H | --- | | | | | |
| 28925.00 | H | --- | | | | | |
| 34710.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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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|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n 20M | Test Date | :2012-11-28 |
| Fundamental Frequency | :5785 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :E2 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 |
| 41.64 | S | Peak | 28.30 | -13.56 | 14.74 | 40.00 | -25.26 |
| 143.49 | S | Peak | 27.47 | -12.82 | 14.65 | 43.50 | -28.85 |
| 285.11 | S | Peak | 28.28 | -12.92 | 15.36 | 46.00 | -30.64 |
| 417.03 | S | Peak | 27.61 | -10.70 | 16.91 | 46.00 | -29.09 |
| 627.52 | S | Peak | 28.28 | -6.97 | 21.31 | 46.00 | -24.69 |
| 843.83 | S | Peak | 27.95 | -3.74 | 24.21 | 46.00 | -21.79 |
| 11570.00 | H | Peak | 18.49 | 17.49 | 35.98 | 74.00 | -38.02 |
| 17355.00 | H | --- | | | | | |
| 23140.00 | H | --- | | | | | |
| 28925.00 | H | --- | | | | | |
| 34710.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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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|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n 20M | Test Date | :2012-11-28 |
| Fundamental Frequency | :5825 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 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. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 30.97 | S | Peak | 31.46 | -14.33 | 17.13 | 40.00 | -22.87 |
| 114.39 | S | Peak | 32.34 | -15.22 | 17.12 | 43.50 | -26.38 |
| 286.08 | S | Peak | 27.59 | -12.89 | 14.70 | 46.00 | -31.30 |
| 454.86 | S | Peak | 29.69 | -9.99 | 19.70 | 46.00 | -26.30 |
| 644.01 | S | Peak | 28.57 | -6.70 | 21.87 | 46.00 | -24.13 |
| 798.24 | S | Peak | 28.75 | -4.22 | 24.53 | 46.00 | -21.47 |
| 11650.00 | H | Peak | 21.38 | 17.78 | 39.16 | 74.00 | -34.84 |
| 17475.00 | H | --- | | | | | |
| 23300.00 | H | --- | | | | | |
| 29125.00 | H | --- | | | | | |
| 34950.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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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Operation Band :802.11n 20M Test Date :2012-11-28
Fundamental Frequency :5825 MHz Temp./Humi. :22.7deg_C/57RH
Operation Mode :TX HIGH Engineer :Marcus
EUT Pol. :E2 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. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 41.64 | S | Peak | 26.60 | -13.56 | 13.04 | 40.00 | -26.96 |
| 154.16 | S | Peak | 27.56 | -12.30 | 15.26 | 43.50 | -28.24 |
| 321.97 | S | Peak | 26.72 | -12.04 | 14.68 | 46.00 | -31.32 |
| 516.94 | S | Peak | 27.72 | -9.26 | 18.46 | 46.00 | -27.54 |
| 714.82 | S | Peak | 27.83 | -5.51 | 22.32 | 46.00 | -23.68 |
| 917.55 | S | Peak | 28.70 | -2.47 | 26.23 | 46.00 | -19.77 |
| 11650.00 | H | Peak | 18.17 | 17.58 | 35.75 | 74.00 | -38.25 |
| 17475.00 | H | --- | | | | | |
| 23300.00 | H | --- | | | | | |
| 29125.00 | H | --- | | | | | |
| 34950.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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Radiated Spurious Emission Measurement Result (802.11n(5GHz)_40M)

| | | | |
|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n 40M | Test Date | :2012-11-28 |
| Fundamental Frequency | :5755 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 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 | 31.24 | -14.33 | 16.91 | 40.00 | -23.09 |
| 114.39 | S | Peak | 32.62 | -15.22 | 17.40 | 43.50 | -26.10 |
| 286.08 | S | Peak | 29.11 | -12.89 | 16.22 | 46.00 | -29.78 |
| 501.42 | S | Peak | 28.48 | -9.55 | 18.93 | 46.00 | -27.07 |
| 699.30 | S | Peak | 27.84 | -5.76 | 22.08 | 46.00 | -23.92 |
| 831.22 | S | Peak | 28.86 | -3.87 | 24.99 | 46.00 | -21.01 |
| 11510.00 | H | Peak | 19.64 | 17.67 | 37.31 | 74.00 | -36.69 |
| 17265.00 | H | --- | | | | | |
| 23020.00 | H | --- | | | | | |
| 28775.00 | H | --- | | | | | |
| 34530.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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Operation Band :802.11n 40M Test Date :2012-11-28
Fundamental Frequency :5755 MHz Temp./Humi. :22.7deg_C/57RH
Operation Mode :TX LOW Engineer :Marcus
EUT Pol. :E2 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. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 44.55 | S | Peak | 26.71 | -13.76 | 12.95 | 40.00 | -27.05 |
| 157.07 | S | Peak | 27.11 | -12.29 | 14.82 | 43.50 | -28.68 |
| 286.08 | S | Peak | 27.46 | -12.89 | 14.57 | 46.00 | -31.43 |
| 511.12 | S | Peak | 28.20 | -9.38 | 18.82 | 46.00 | -27.18 |
| 710.94 | S | Peak | 28.10 | -5.57 | 22.53 | 46.00 | -23.47 |
| 894.27 | S | Peak | 27.81 | -2.93 | 24.88 | 46.00 | -21.12 |
| 11510.00 | H | Peak | 19.51 | 17.47 | 36.98 | 74.00 | -37.02 |
| 17265.00 | H | --- | | | | | |
| 23020.00 | H | --- | | | | | |
| 28775.00 | H | --- | | | | | |
| 34530.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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| | | | |
|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n 40M | Test Date | :2012-11-28 |
| Fundamental Frequency | :5795 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 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. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 30.00 | S | Peak | 31.45 | -14.37 | 17.08 | 40.00 | -22.92 |
| 114.39 | S | Peak | 32.18 | -15.22 | 16.96 | 43.50 | -26.54 |
| 343.31 | S | Peak | 28.58 | -11.76 | 16.82 | 46.00 | -29.18 |
| 493.66 | S | Peak | 27.66 | -9.66 | 18.00 | 46.00 | -28.00 |
| 662.44 | S | Peak | 28.10 | -6.34 | 21.76 | 46.00 | -24.24 |
| 918.52 | S | Peak | 27.96 | -2.44 | 25.52 | 46.00 | -20.48 |
| 11590.00 | H | Peak | 21.54 | 17.69 | 39.23 | 74.00 | -34.77 |
| 17385.00 | H | --- | | | | | |
| 23180.00 | H | --- | | | | | |
| 28975.00 | H | --- | | | | | |
| 34770.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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Operation Band :802.11n 40M Test Date :2012-11-28
Fundamental Frequency :5795 MHz Temp./Humi. :22.7deg_C/57RH
Operation Mode :TX HIGH Engineer :Marcus
EUT Pol. :E2 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. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 40.67 | S | Peak | 27.66 | -13.48 | 14.18 | 40.00 | -25.82 |
| 165.80 | S | Peak | 27.07 | -12.77 | 14.30 | 43.50 | -29.20 |
| 330.70 | S | Peak | 26.72 | -11.92 | 14.80 | 46.00 | -31.20 |
| 563.50 | S | Peak | 28.18 | -8.31 | 19.87 | 46.00 | -26.13 |
| 679.90 | S | Peak | 28.23 | -6.04 | 22.19 | 46.00 | -23.81 |
| 880.69 | S | Peak | 28.02 | -3.19 | 24.83 | 46.00 | -21.17 |
| 11590.00 | H | Peak | 20.04 | 17.49 | 37.53 | 74.00 | -36.47 |
| 17385.00 | H | --- | | | | | |
| 23180.00 | H | --- | | | | | |
| 28975.00 | H | --- | | | | | |
| 34770.00 | H | --- | | | | | |

For measurement plot of radiation, please refer to Appendix I.

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11 PEAK POWER SPECTRAL DENSITY

11.1 Standard Applicable:

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

According to RSS-210 issue 8, §A8.2(b) The transmitter power spectral density (into the antenna) shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

11.2 Measurement Equipment Used:

Refer to section 7.2 for details.

11.3 Test Set-up:

Refer to section 7.3 for details.

11.4 Measurement Procedure (following the measurement procedure 9.1 option1 of KDB558074):

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW \geq 3 kHz.
4. Set the VBW \geq 3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

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11.5 Measurement Result:

802.11b

| Frequency MHz | RF Power Density Reading (dBm) | Maximum Limit (dBm) |
|------------------|-----------------------------------|------------------------|
| 2412 | -3.53 | 8 |
| 2437 | -4.22 | 8 |
| 2462 | -4.14 | 8 |

802.11g

| Frequency MHz | RF Power Density Reading (dBm) | Maximum Limit (dBm) |
|------------------|-----------------------------------|------------------------|
| 2412 | -13.74 | 8 |
| 2437 | -8.82 | 8 |
| 2462 | -9.46 | 8 |

802.11n_20M

| Frequency MHz | RF Power Density Reading (dBm) | Maximum Limit (dBm) |
|------------------|-----------------------------------|------------------------|
| 2412 | -14.22 | 8 |
| 2437 | -13.04 | 8 |
| 2462 | -13.47 | 8 |

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802.11a

| Frequency MHz | RF Power Density Reading (dBm) | Maximum Limit (dBm) |
|------------------|-----------------------------------|------------------------|
| 5745 | -15.35 | 8 |
| 5785 | -14.81 | 8 |
| 5825 | -12.96 | 8 |

802.11n(5GHz)_20M

| Frequency MHz | RF Power Density Reading (dBm) | Maximum Limit (dBm) |
|------------------|-----------------------------------|------------------------|
| 5745 | -14.92 | 8 |
| 5785 | -15.43 | 8 |
| 5825 | -13.33 | 8 |

802.11n(5GHz)_40M

| Frequency MHz | RF Power Density Reading (dBm) | RF Power Density Level (dBm) |
|------------------|-----------------------------------|---------------------------------|
| 5755 | -18.02 | -18.02 |
| 5795 | -17.15 | -17.15 |

* Note: Offset 10.9dB for 2.4G 802.11b/g/n_20;

Offset 11.6 dB for 5G 802.11a/n_20/n_40 .

*Refer to next page for plots

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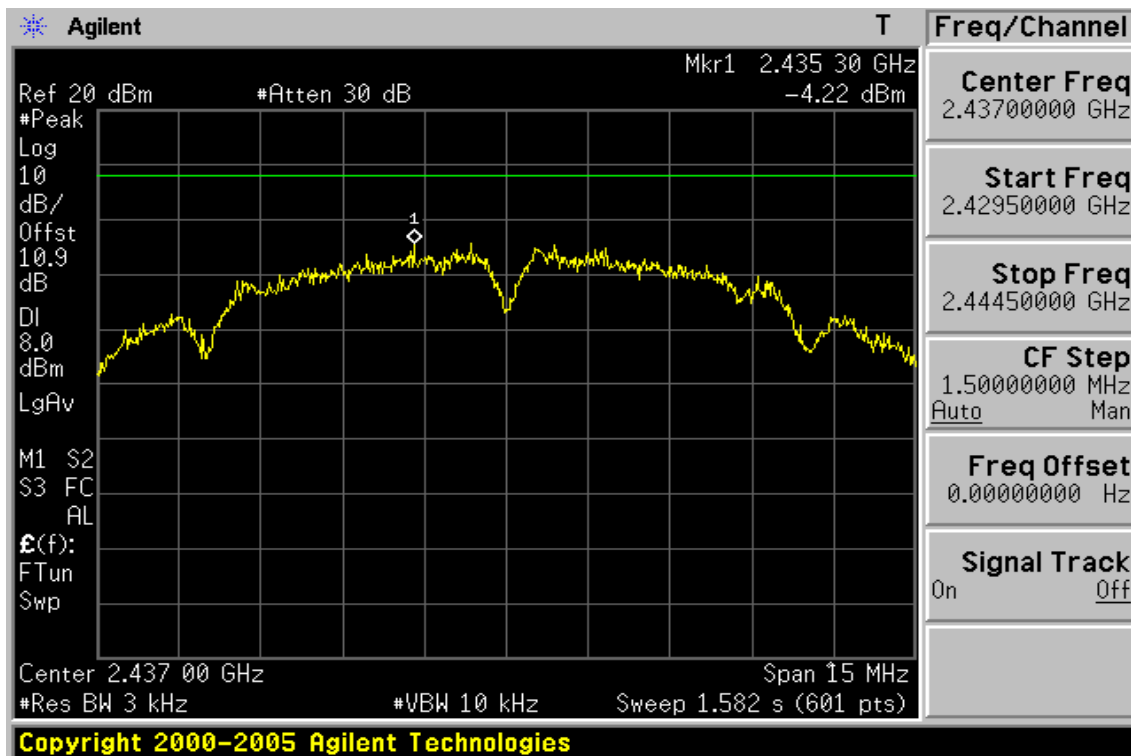
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802.11b

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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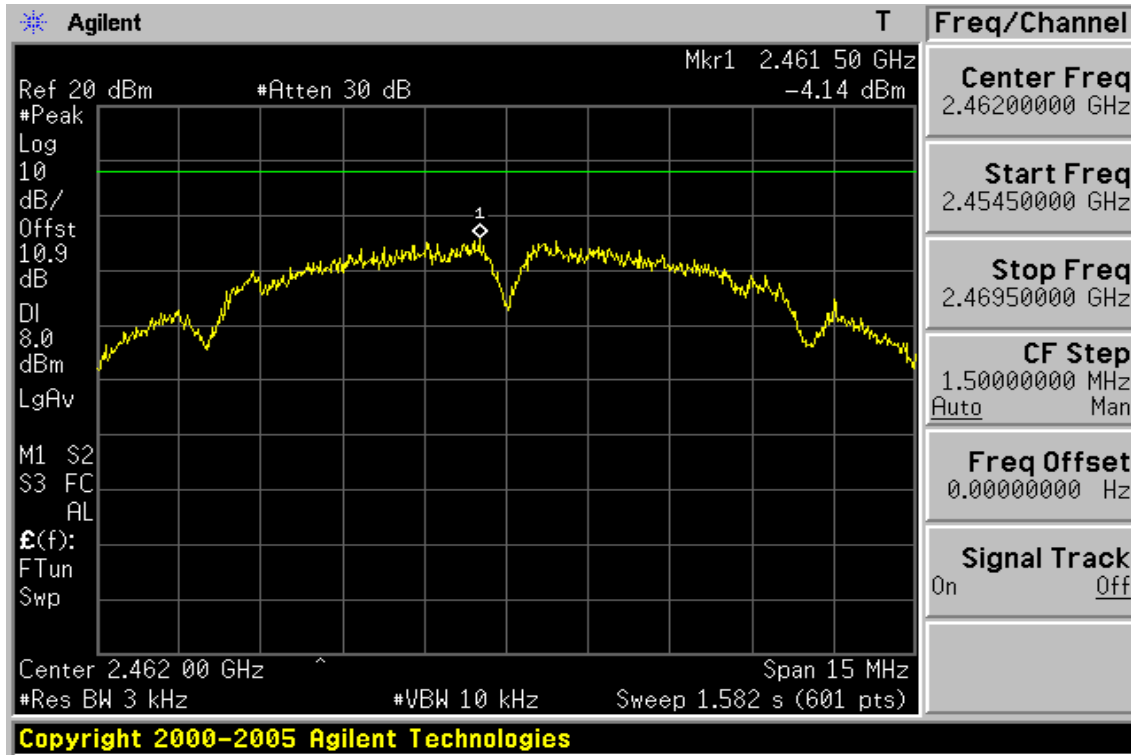
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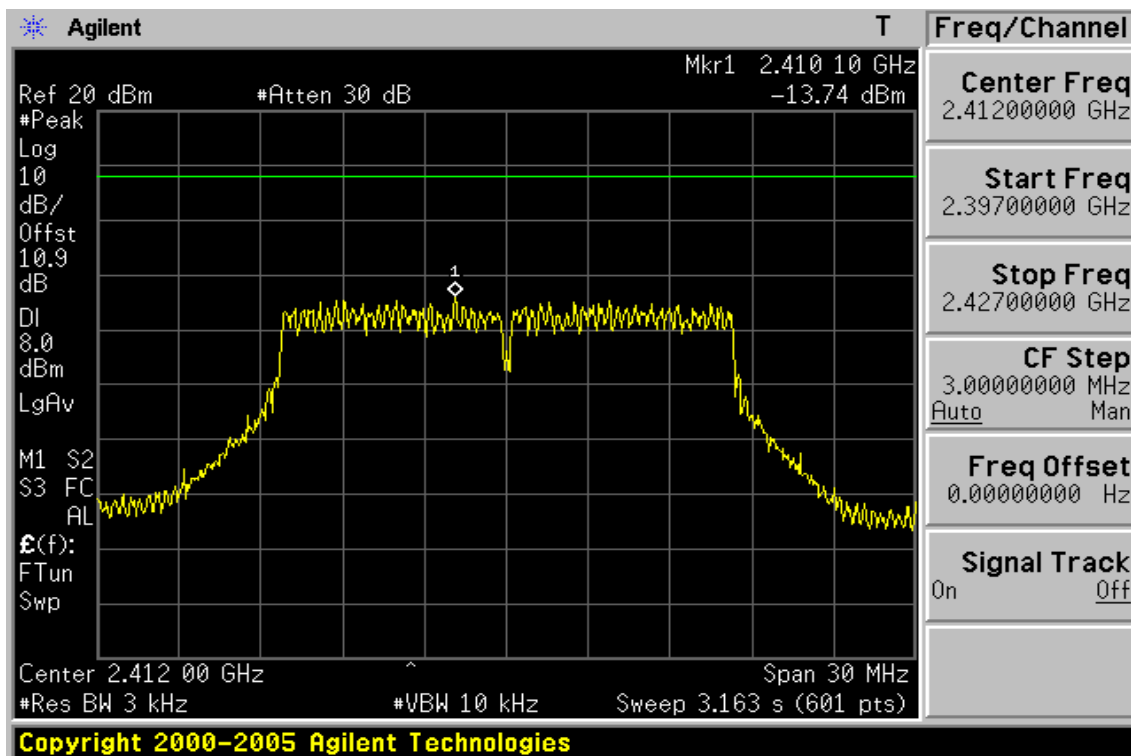
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Power Spectral Density Test Plot (CH-High)



802.11g

Power Spectral Density Test Plot (CH-Low)



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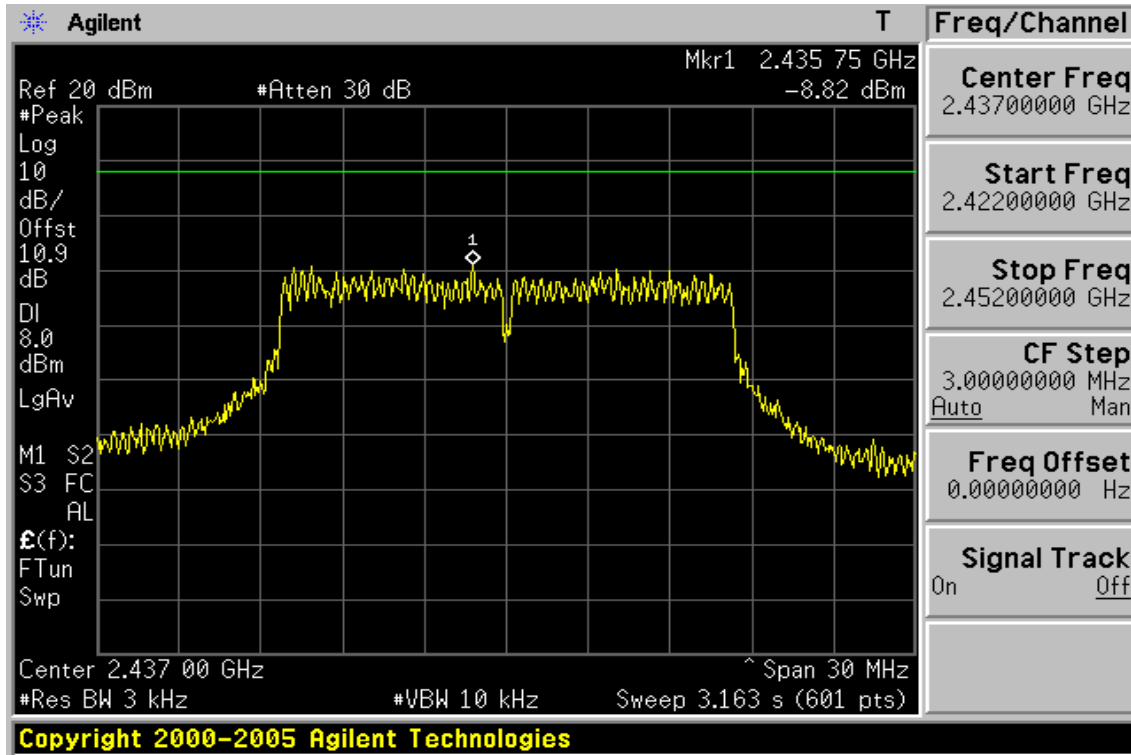
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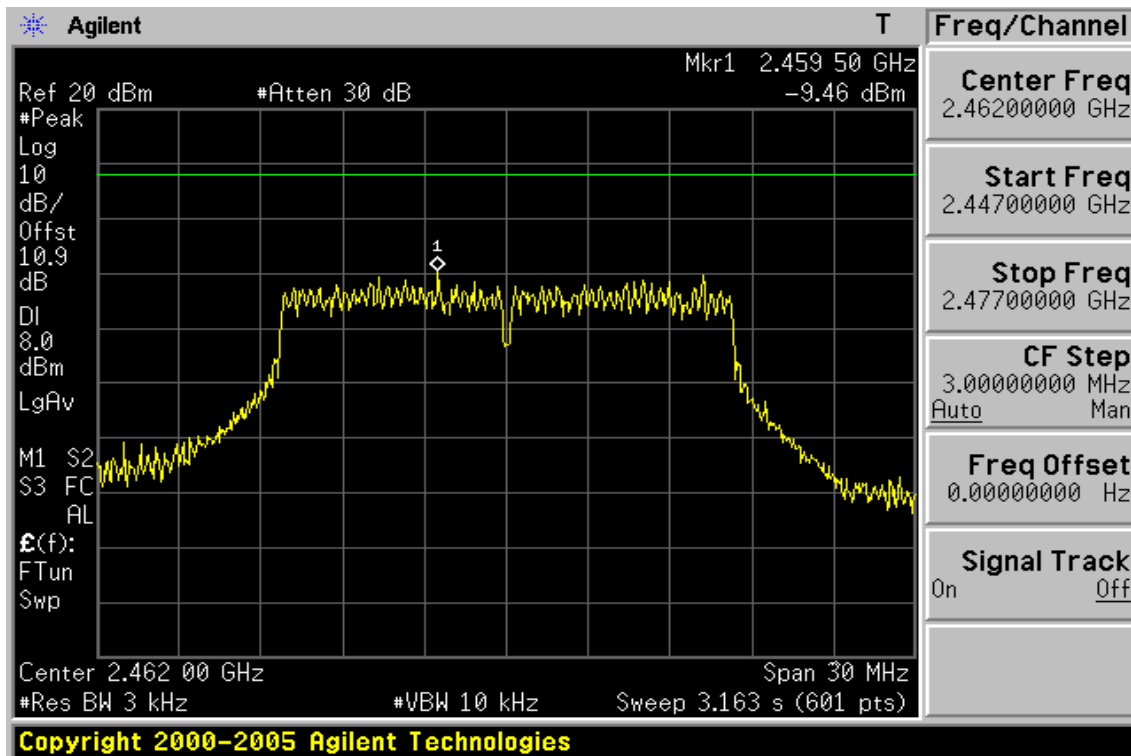
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Power Spectral Density Test Plot (CH-Mid)



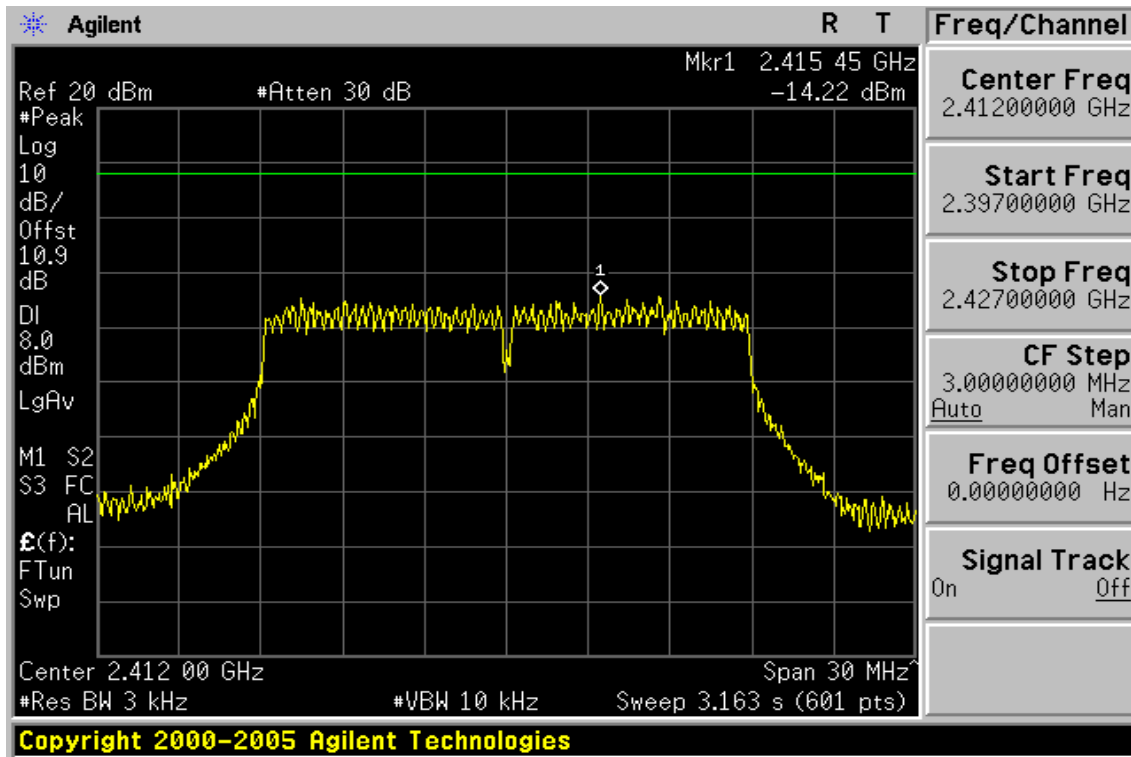
Power Spectral Density Test Plot (CH-High)



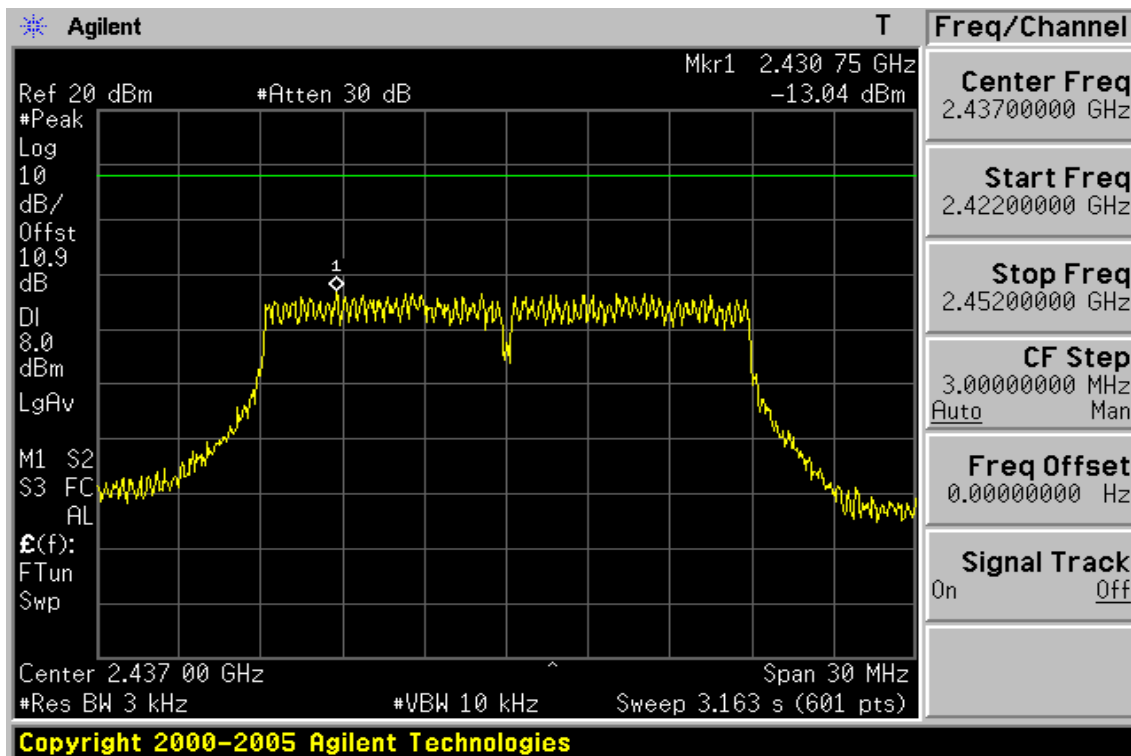
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802.11n_20M

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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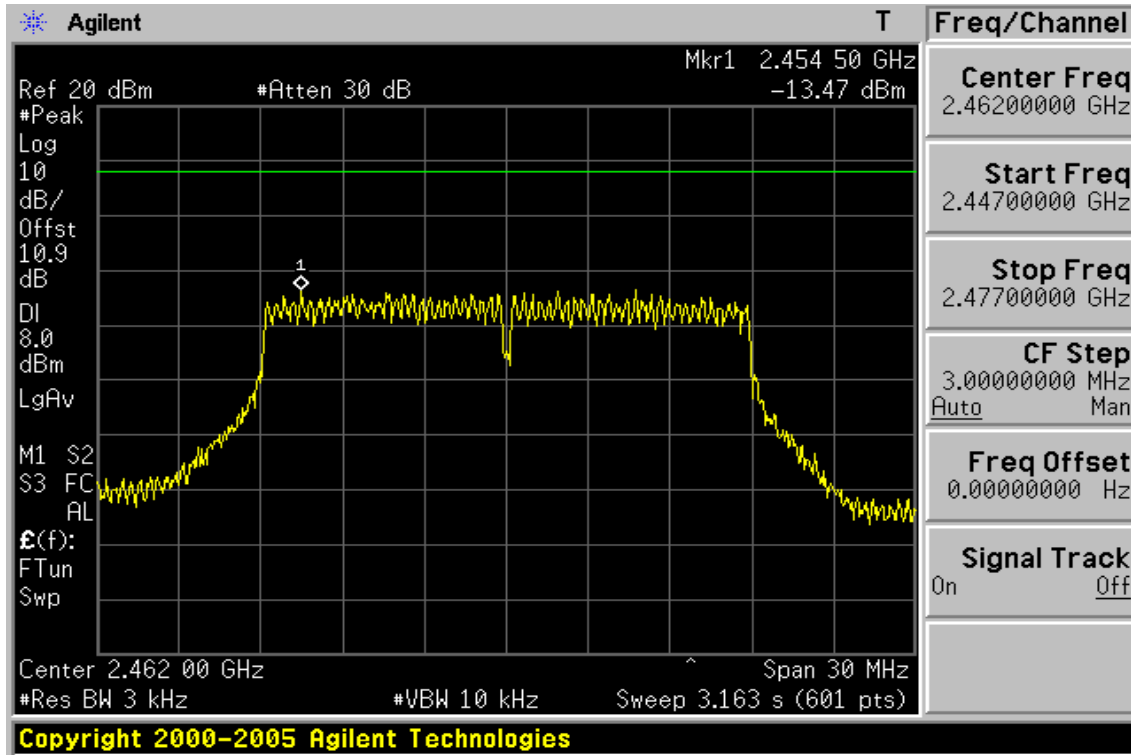
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Power Spectral Density Test Plot (CH-High)



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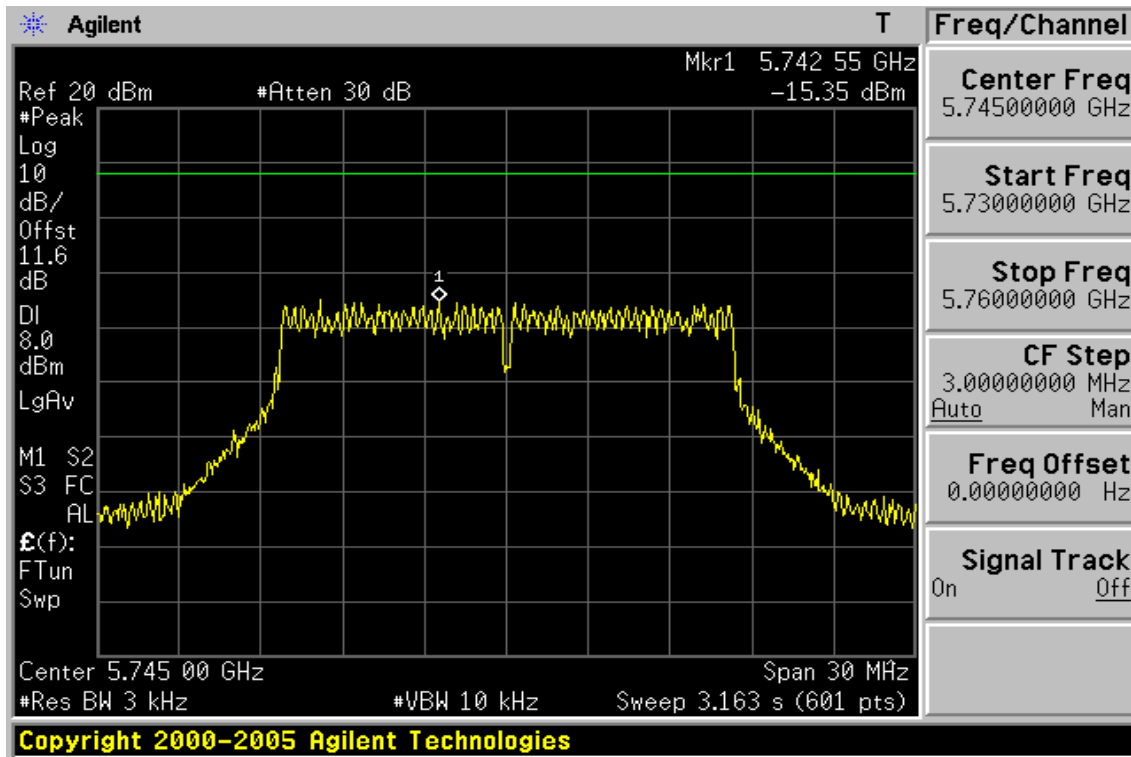
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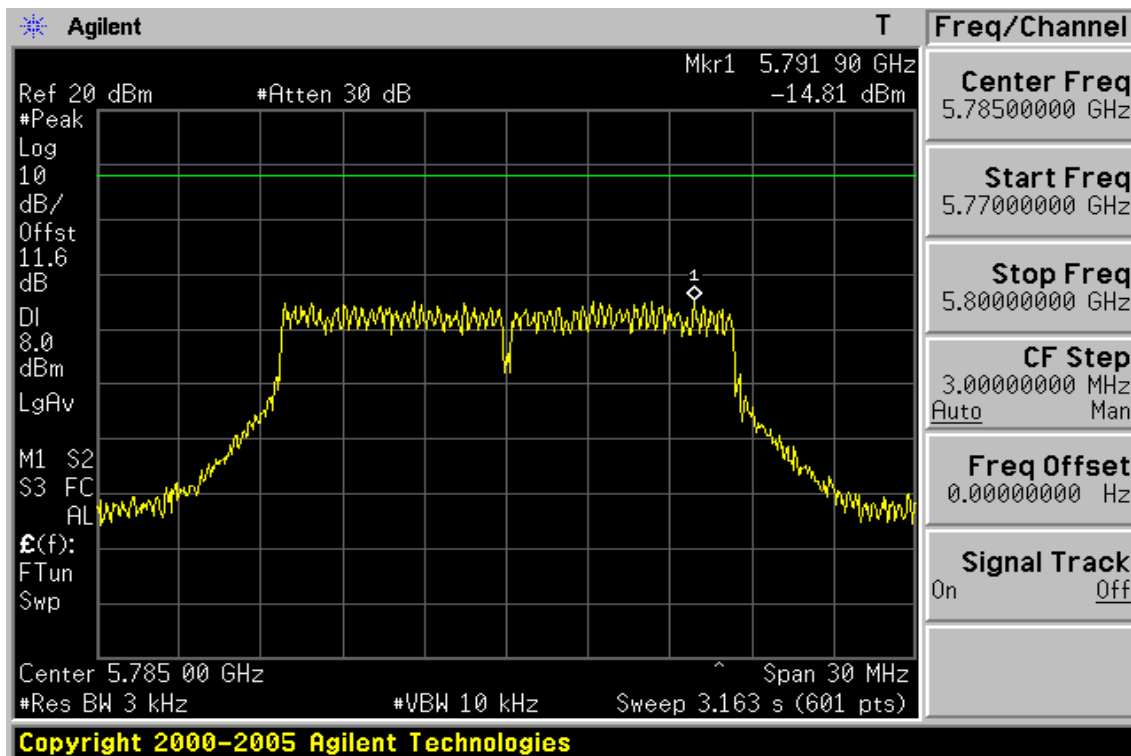
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802.11a

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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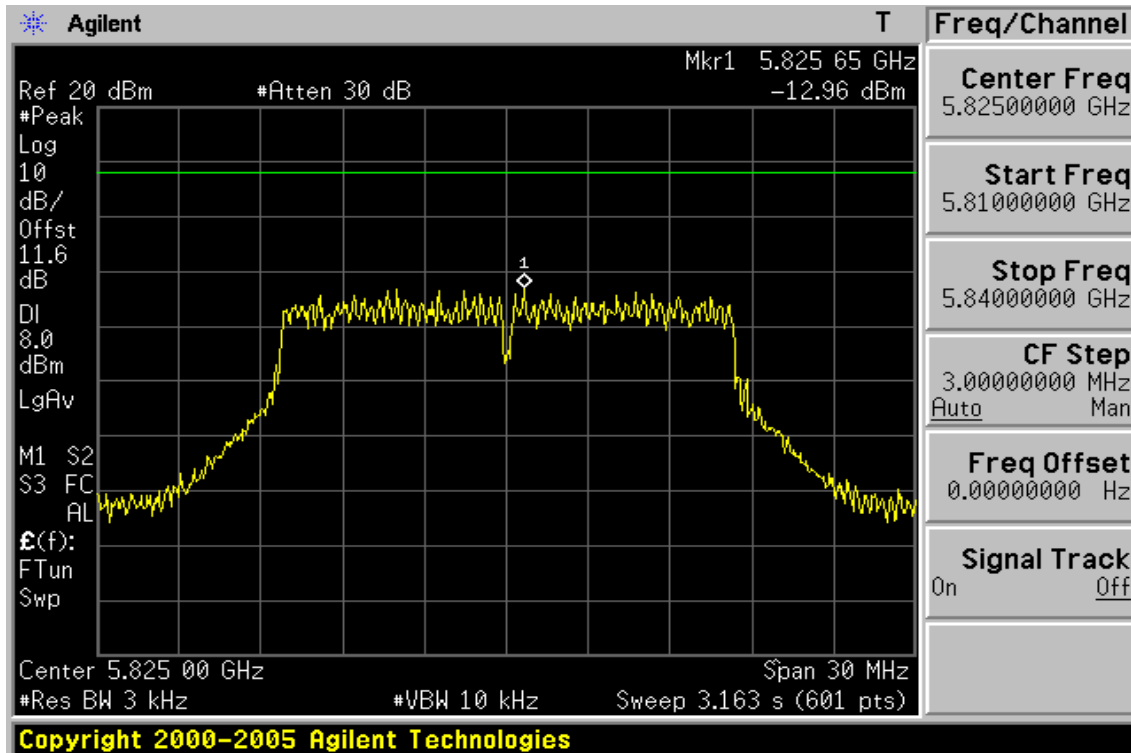
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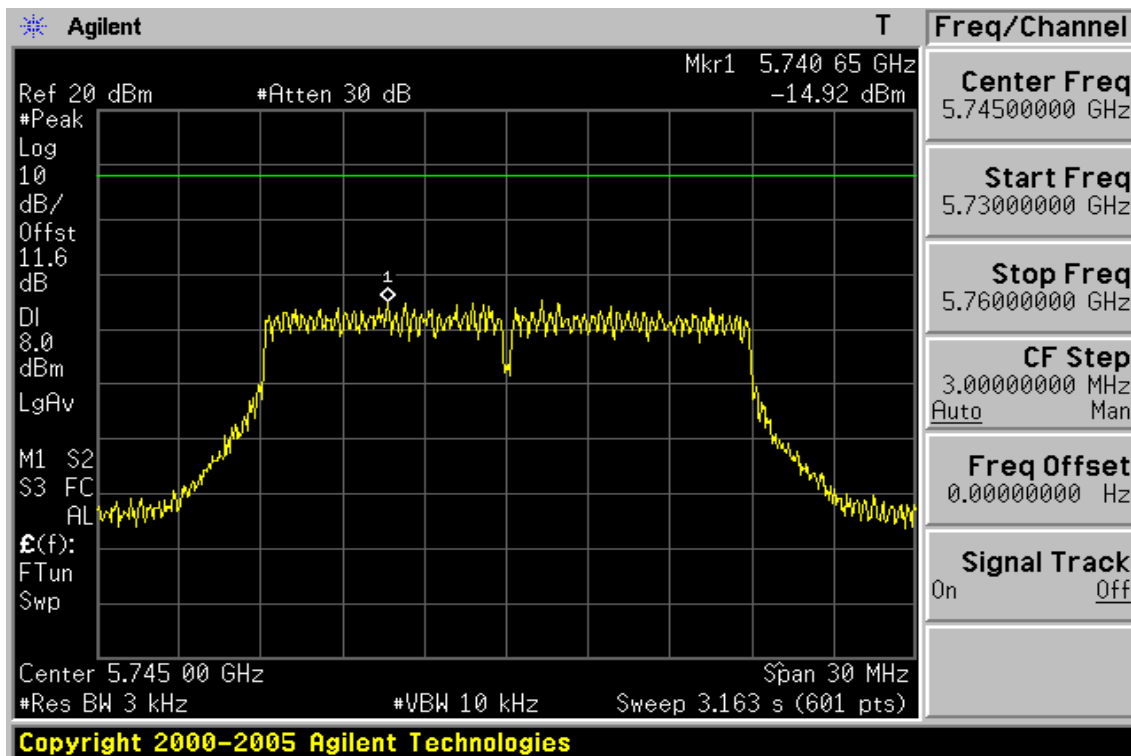
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Power Spectral Density Test Plot (CH-High)



802.11n (5GHz)_20M

Power Spectral Density Test Plot (CH-Low)



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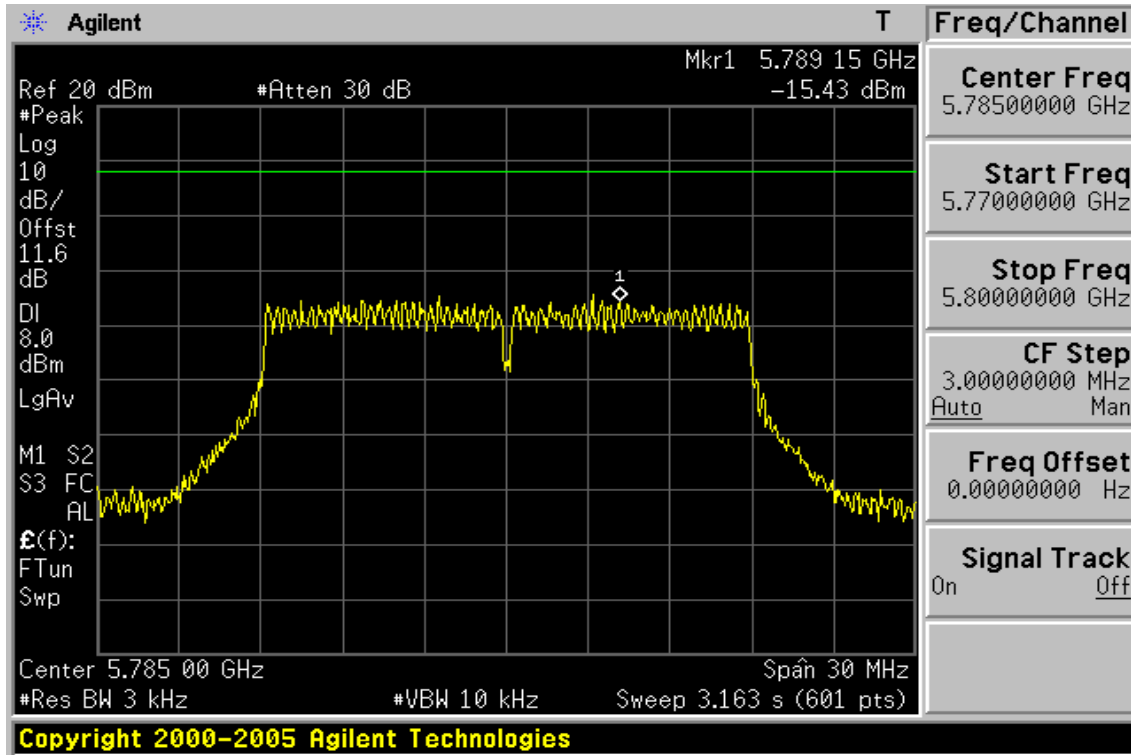
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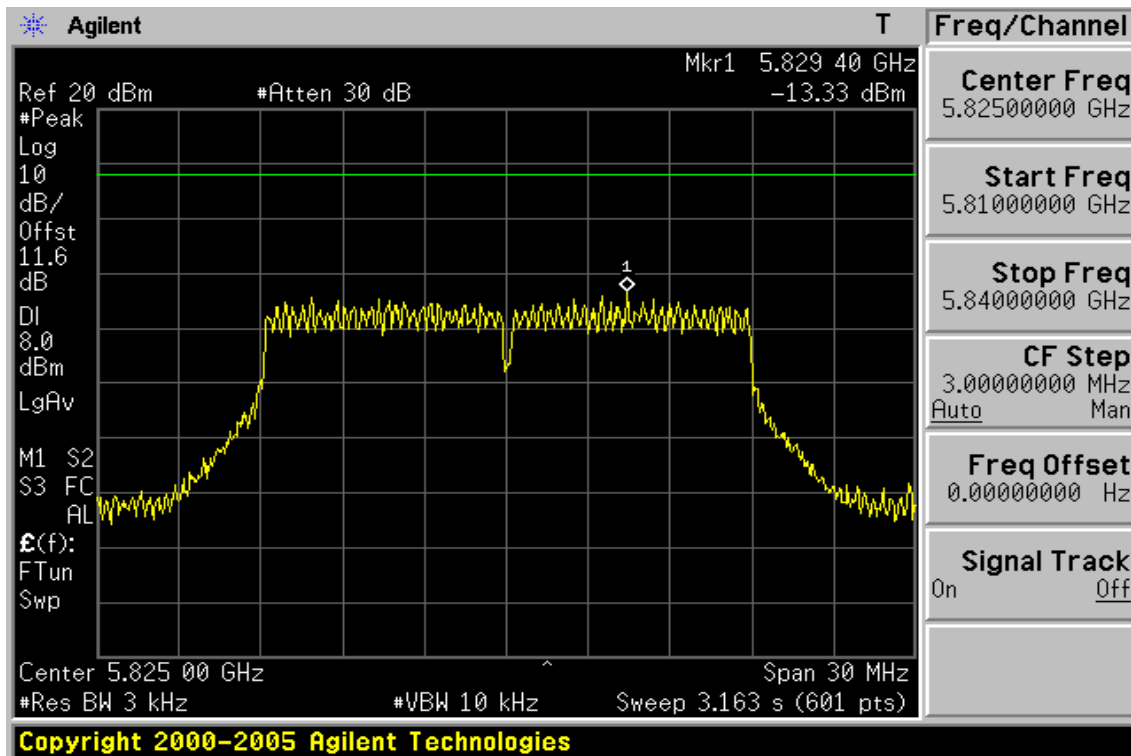
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



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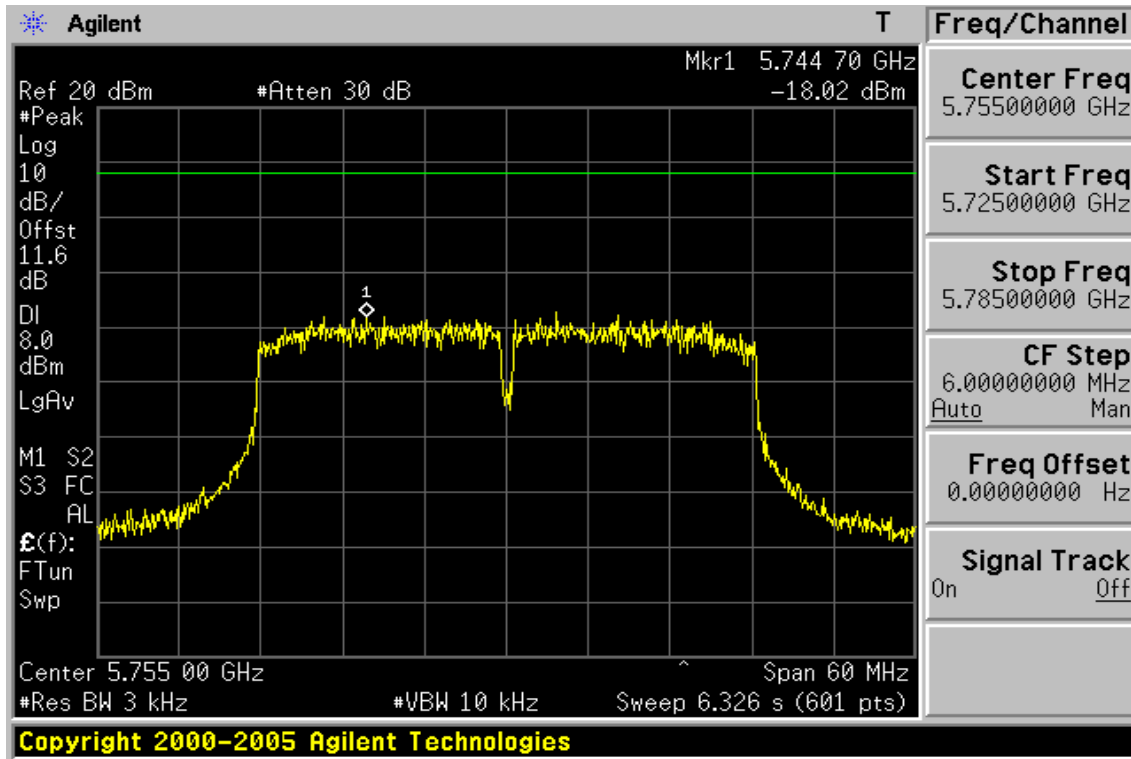
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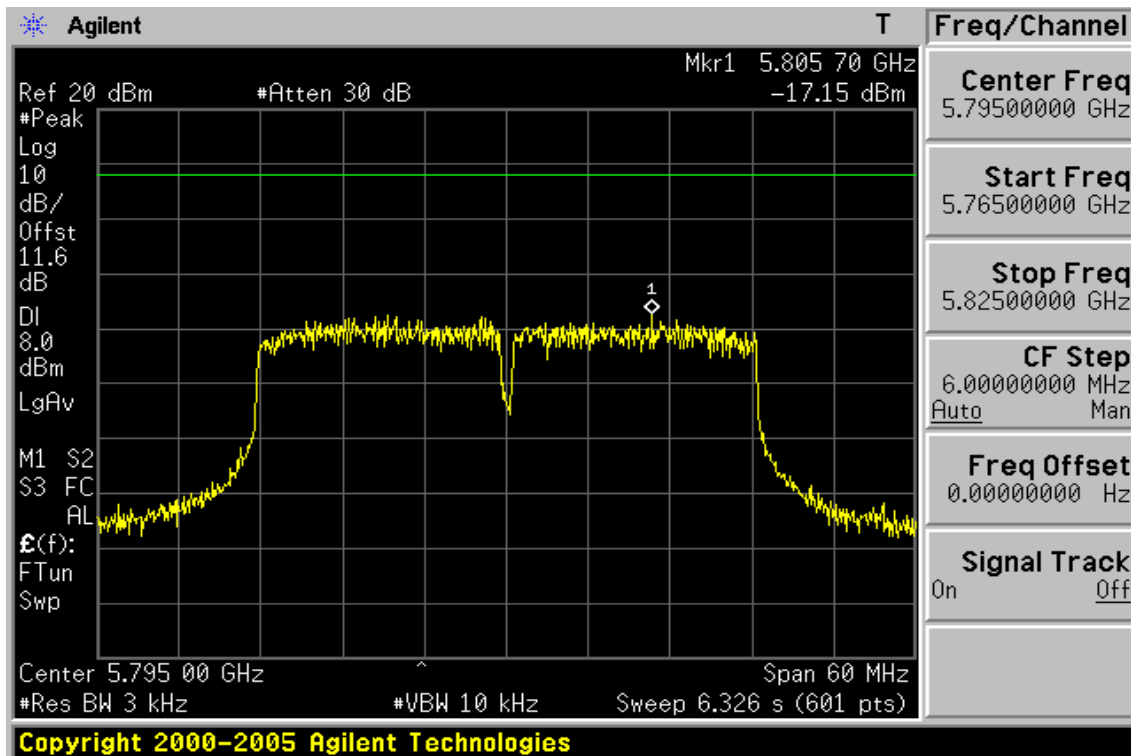
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802.11n (5GHz)_40M

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-High)



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12 ANTENNA REQUIREMENT

12.1 Standard Applicable:

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

According to RSS-GEN 7.1.2, a transmitter can only be sold or operated with antennas with which it was certified. A transmitter may be certified with multiple antenna types. An antenna type comprises antennas having similar in-band and out-of-band radiation patterns. Testing shall be performed using the highest-gain antenna of each combination of transmitter and antenna type for which certification is being sought, with the transmitter output power set at the maximum level. Any antenna of the same type and having equal or lesser gain as an antenna that had been successfully tested for certification with the transmitter, will also be considered certified with the transmitter, and may be used and marketed with the transmitter. The manufacturer shall include with the application for certification a list of acceptable antenna types to be used with the transmitter.

When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on measurement or on data from the antenna manufacturer. Any antenna gain in excess of 6 dBi (6 dB above isotropic gain) shall be added to the measured RF output power before using the power limits specified in RSS-210 or RSS-310 for devices of RF output powers of 10 milliwatts or less. For devices of output powers greater than 10 milliwatts, except devices subject to RSS-210 Annex 8 (Frequency Hopping and Digital Modulation Systems Operating in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz Bands) or RSS-210 Annex 9 (Local Area Network Devices), the total antenna gain shall be added to the measured RF output power before using the specified power limits. For devices subject to RSS-210 Annex 8 or Annex 9, the antenna gain shall not be added.

12.2 Antenna Connected Construction:

The directional gains of antenna used for transmitting is 0.02dBi for 2.4GHz, 3.11dBi for 5725-5850 MHz and the antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

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13 99% BANDWIDTH MEASUREMENT

13.1 Standard Applicable:

RSS-Gen §4.6.1, 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.

The span between the two recorded frequencies is the occupied bandwidth.

13.2 Measurement Equipment Used:

Refer to section 7.2 for details.

13.3 Test Set-up:

Refer to section 7.3 for details.

13.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW=1% of the Span, VBW = 3 times RBW, Span= 30 MHz /50MHz.
4. Turn on the 99% bandwidth function, max reading..
5. Repeat above procedures until all frequency measured were complete.

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13.5 Measurement Result:

802.11b

| Frequency MHz | 99%Bandwidth (MHz) |
|------------------|-----------------------|
| 2412 | 15.2889 |
| 2437 | 13.0685 |
| 2462 | 13.0372 |

802.11g

| Frequency MHz | 99%Bandwidth (MHz) |
|------------------|-----------------------|
| 2412 | 16.9353 |
| 2437 | 17.2369 |
| 2462 | 17.0427 |

802.11n_20M

| Frequency MHz | 99%Bandwidth (MHz) |
|------------------|-----------------------|
| 2412 | 17.9687 |
| 2437 | 17.9943 |
| 2462 | 18.0003 |

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802.11a

| Frequency MHz | 99%Bandwidth (MHz) |
|------------------|-----------------------|
| 5745 | 17.1895 |
| 5785 | 17.8739 |
| 5825 | 17.6443 |

802.11n(5GHz)_20M

| Frequency MHz | 99%Bandwidth (MHz) |
|------------------|-----------------------|
| 5745 | 18.1671 |
| 5785 | 18.4833 |
| 5825 | 18.4626 |

802.11n(5GHz)_40M

| Frequency MHz | 99%Bandwidth (MHz) |
|------------------|-----------------------|
| 5755 | 36.3328 |
| 5795 | 36.4777 |

Note: Refer to next page for plots.

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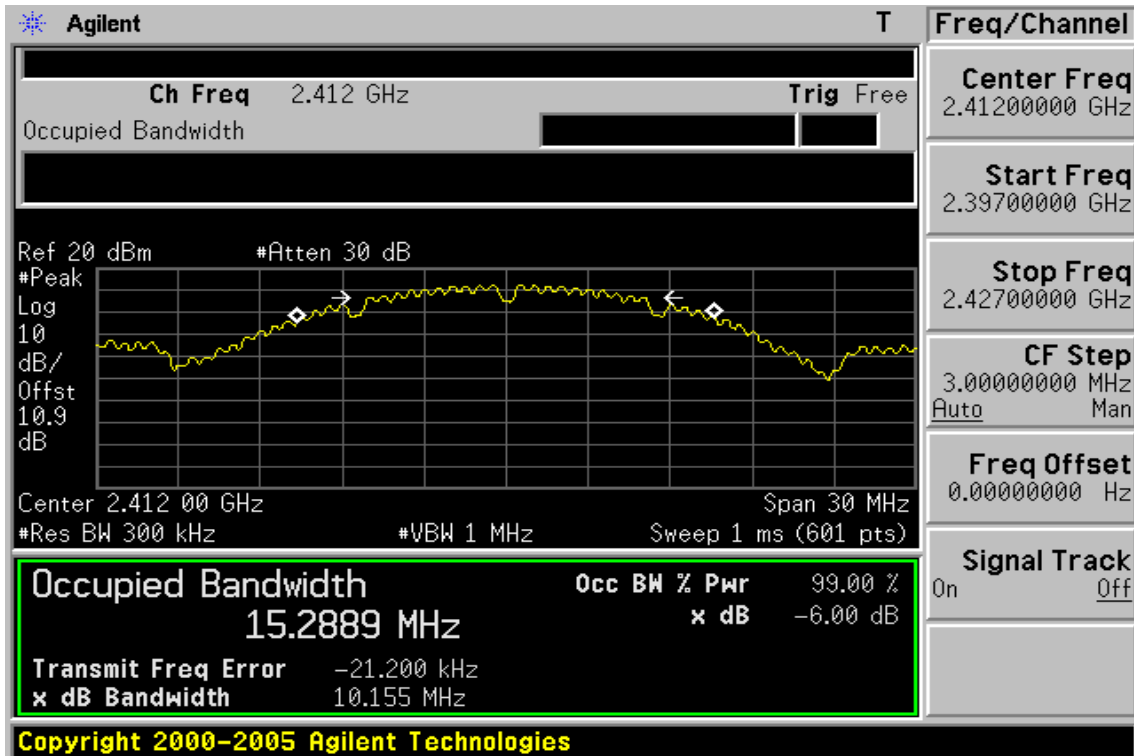
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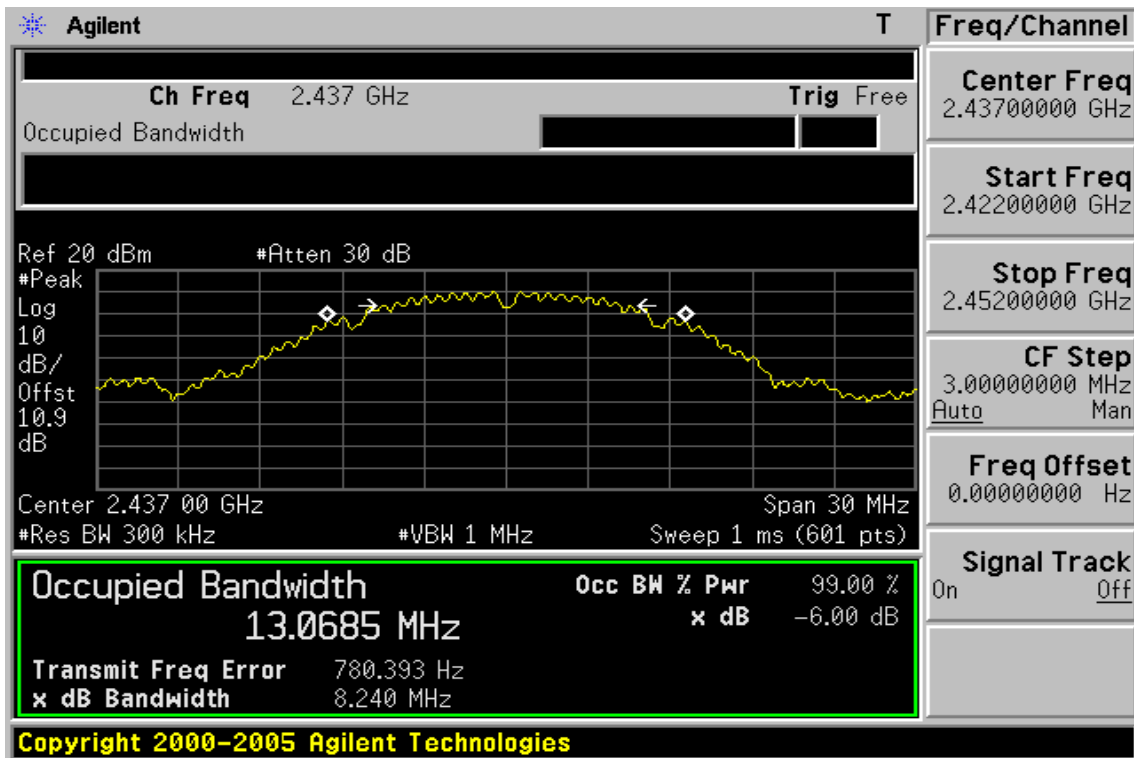
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802.11b

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid

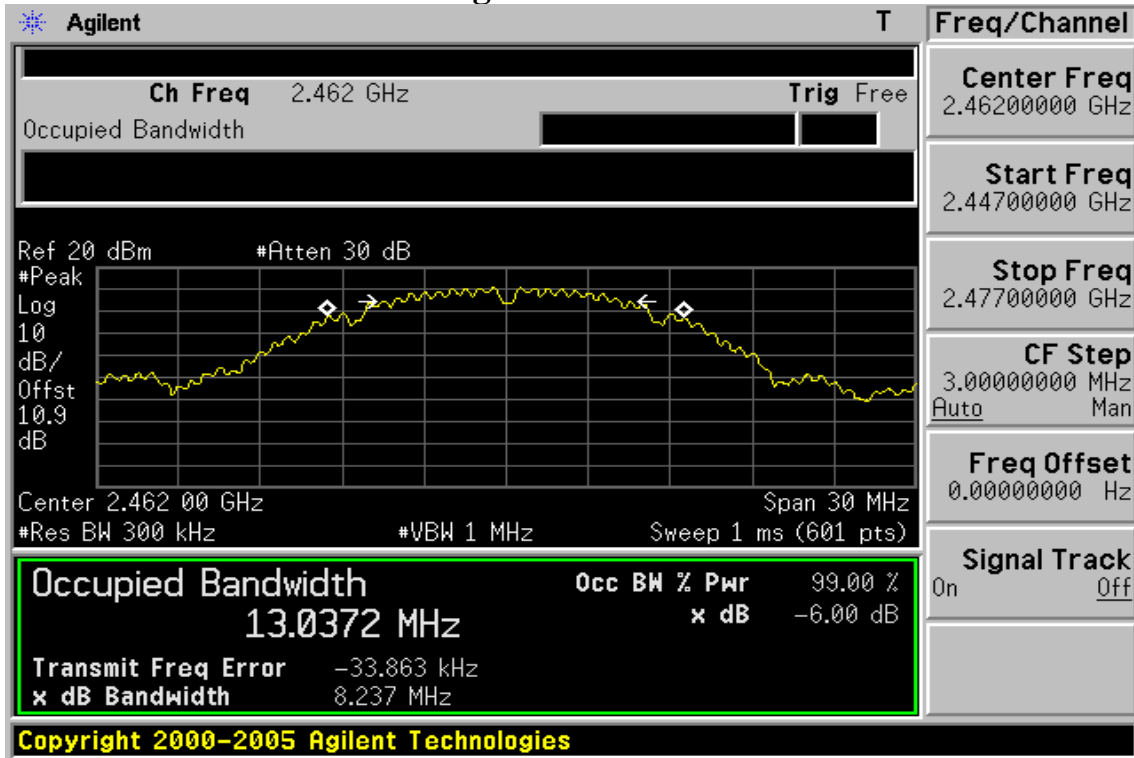


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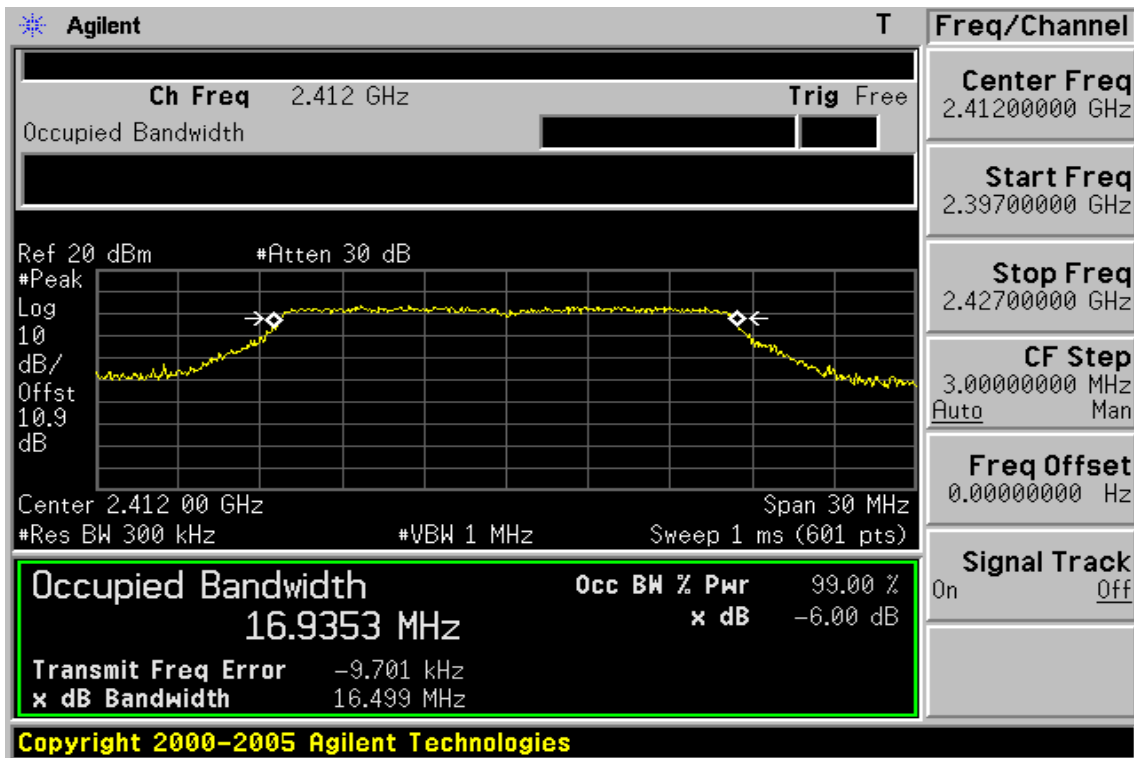
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99% Band Width Test Data CH-High



802.11g

99% Band Width Test Data CH-Low



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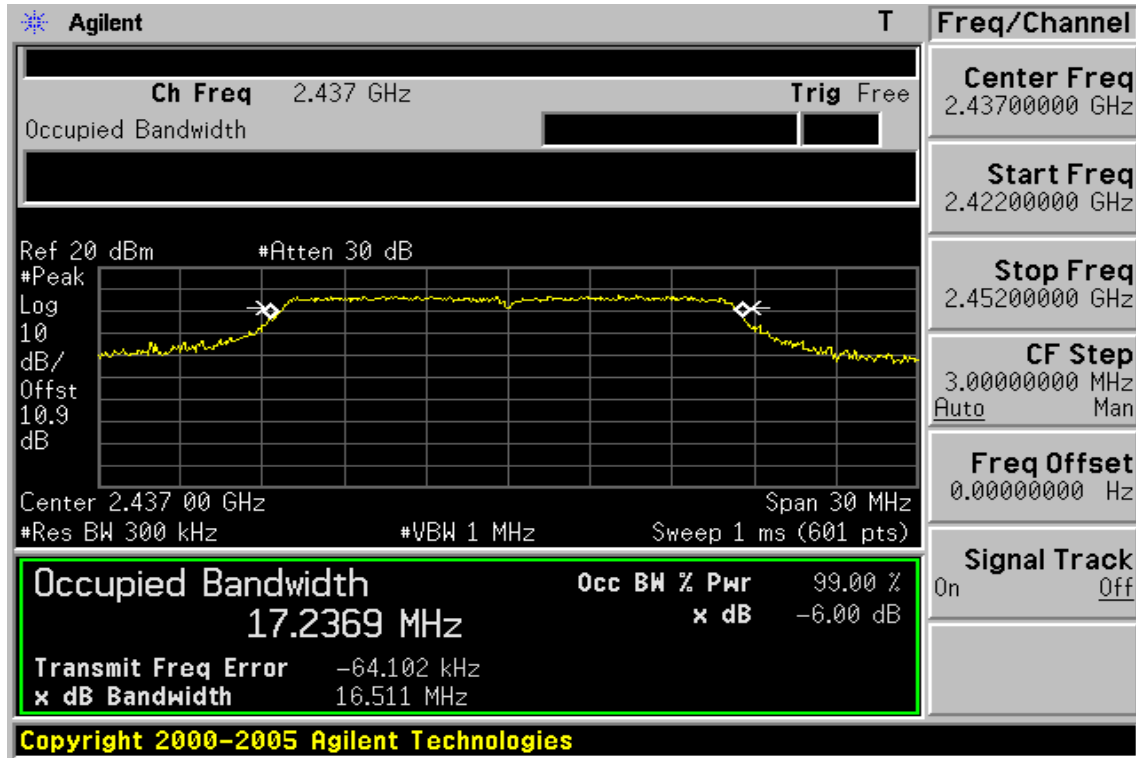
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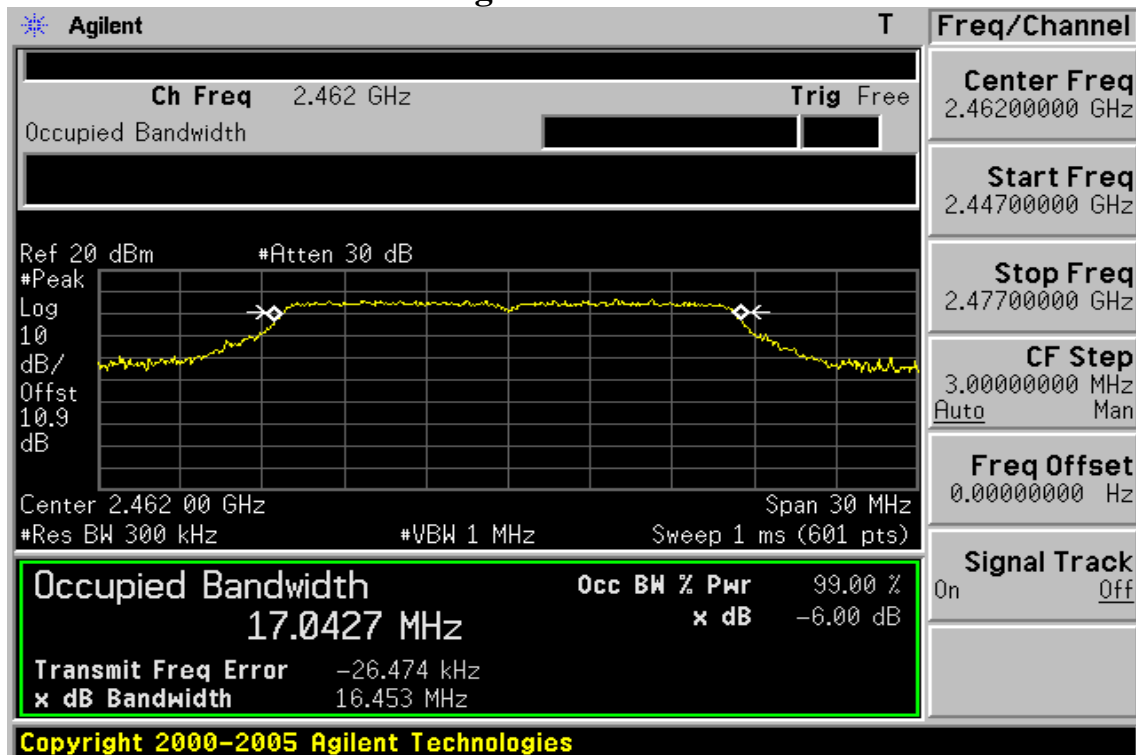
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99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High



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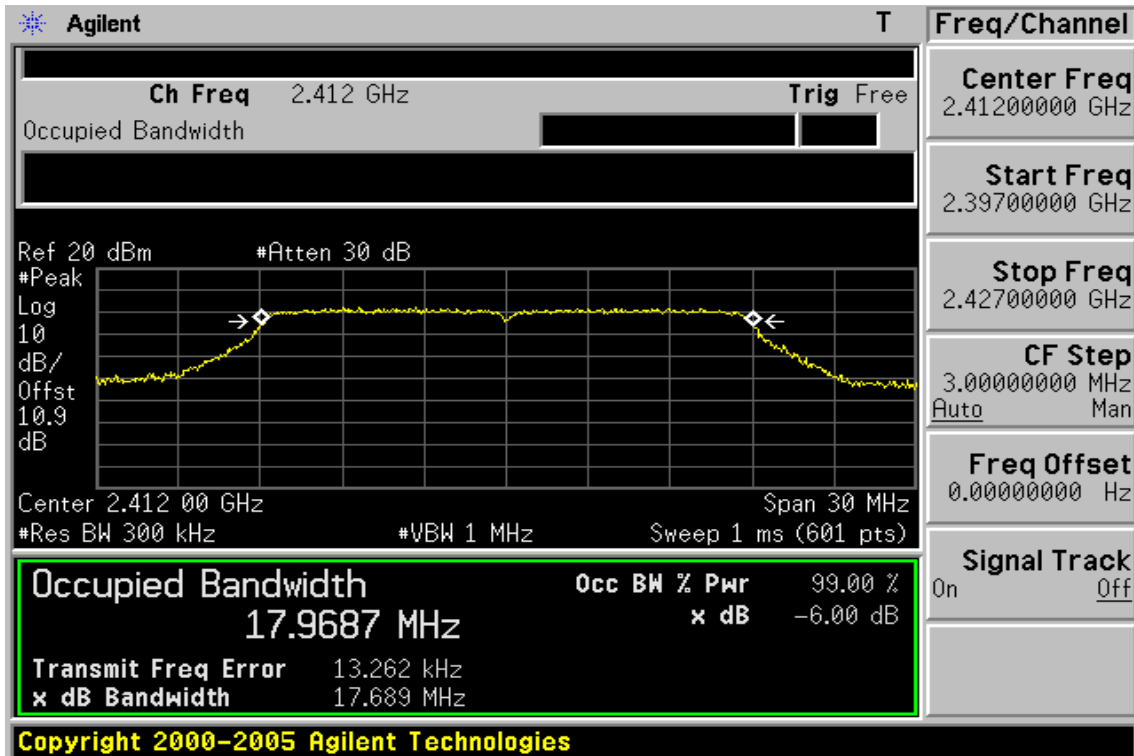
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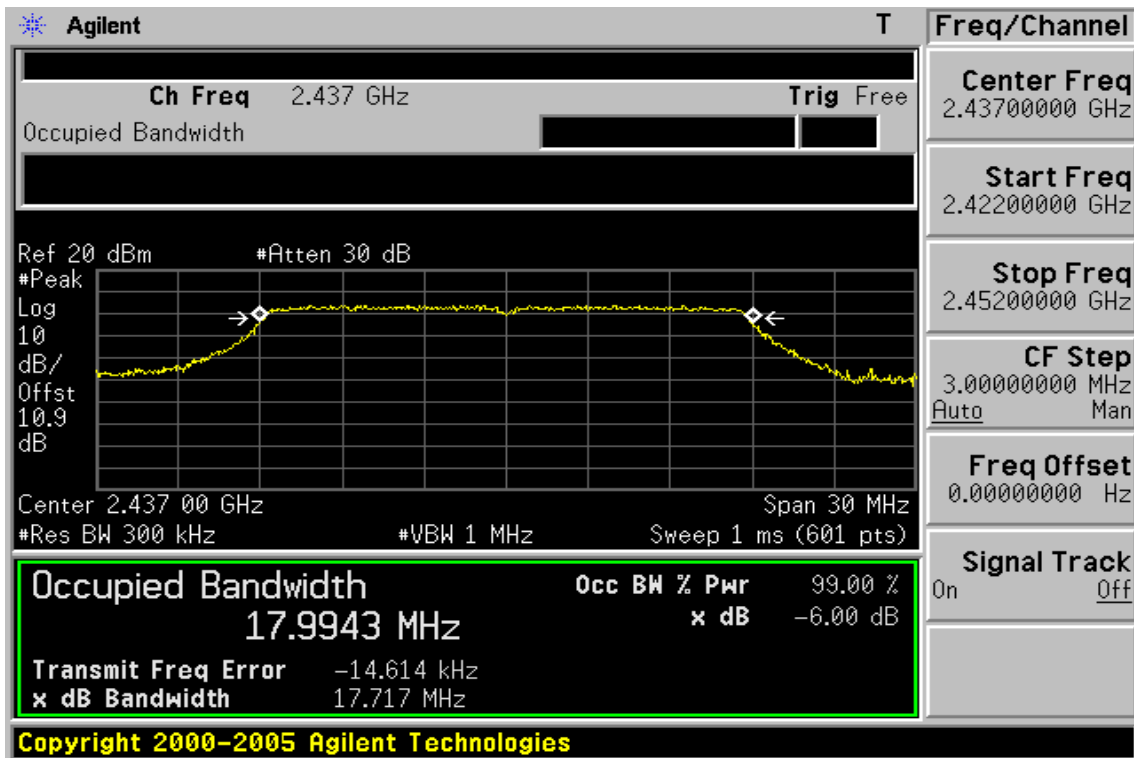
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Member of SGS Group

802.11n_20M
99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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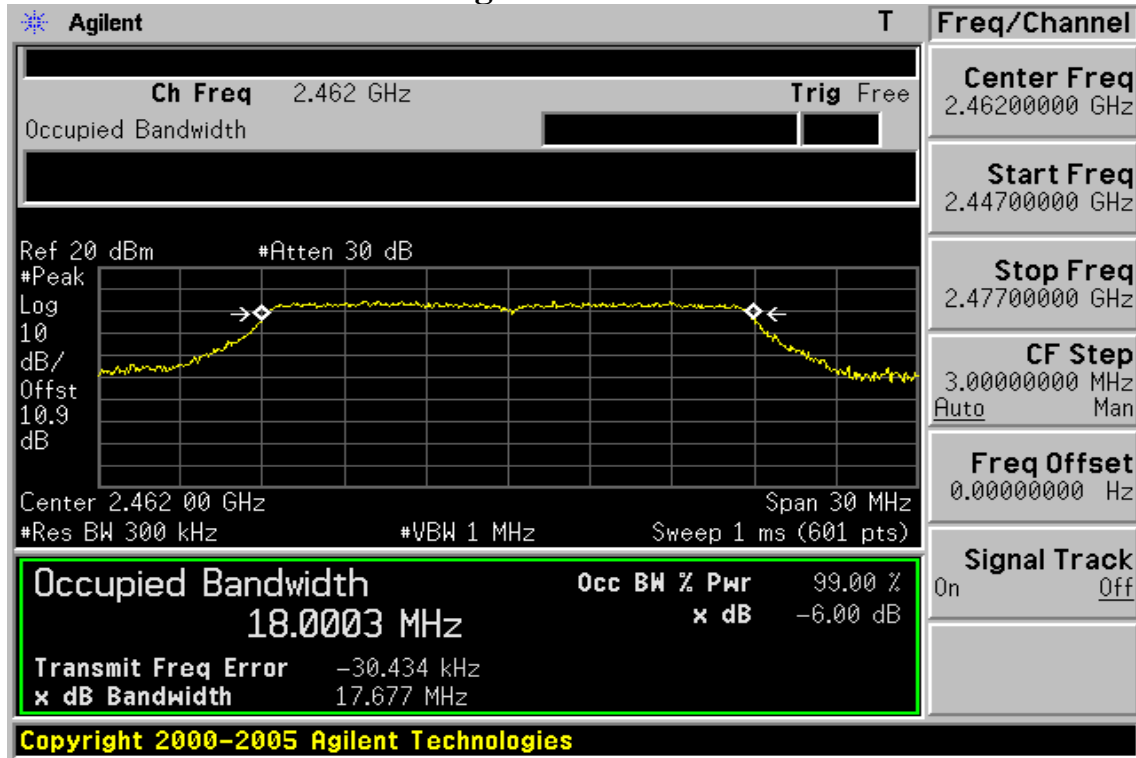
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99% Band Width Test Data CH-High



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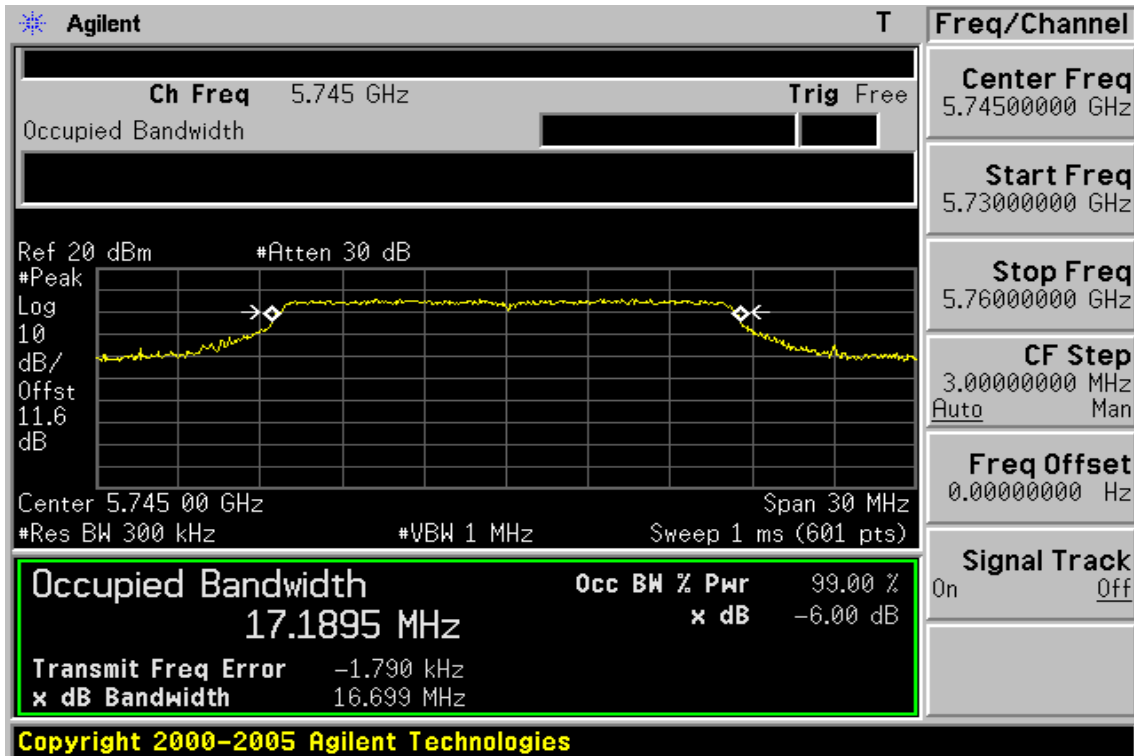
f (886-2) 2298-0488

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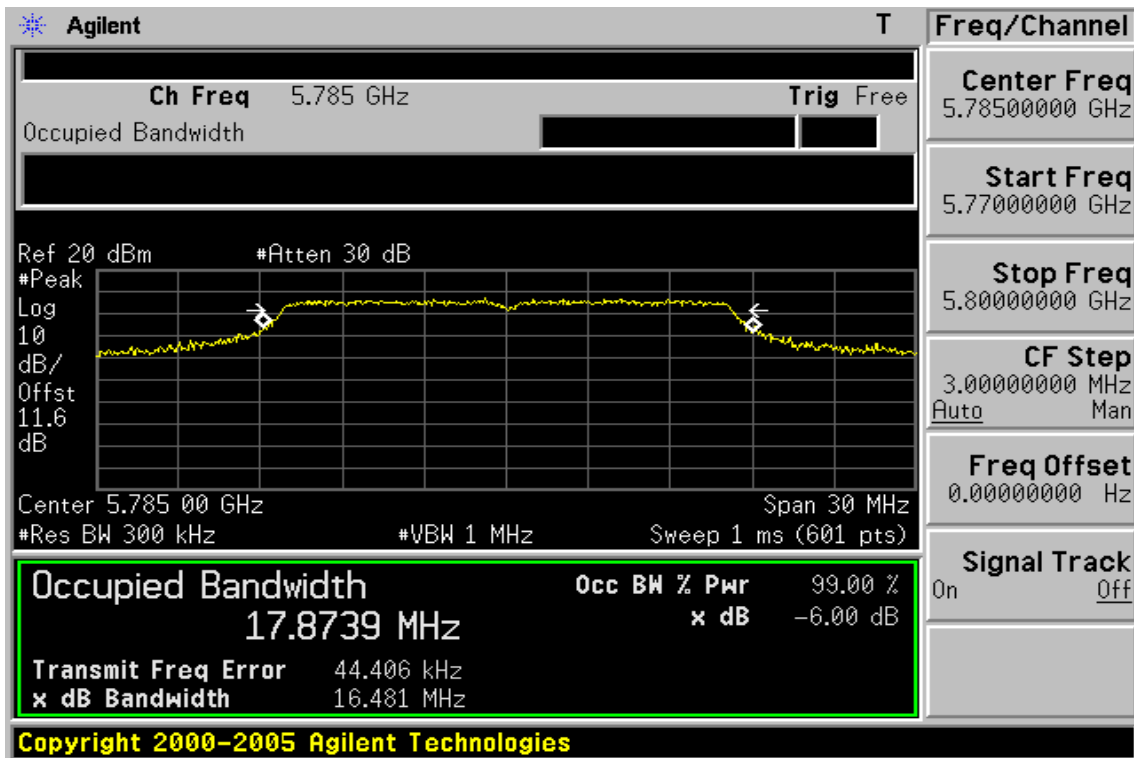
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802.11a

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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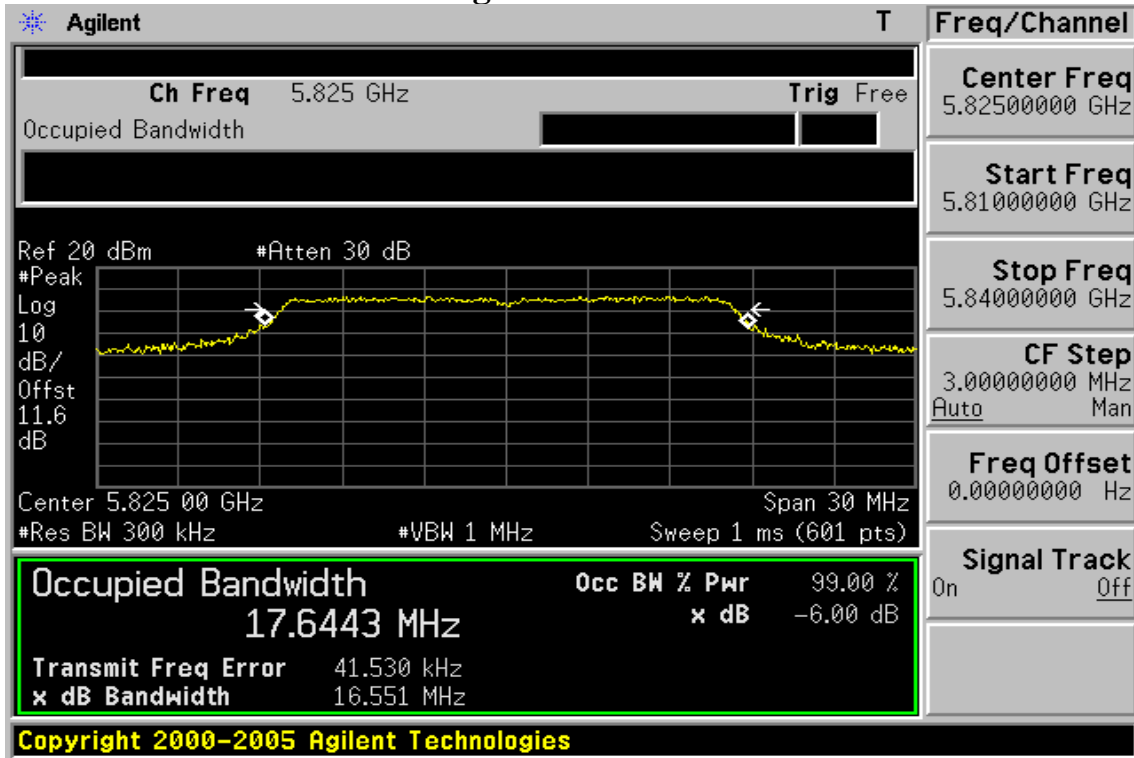
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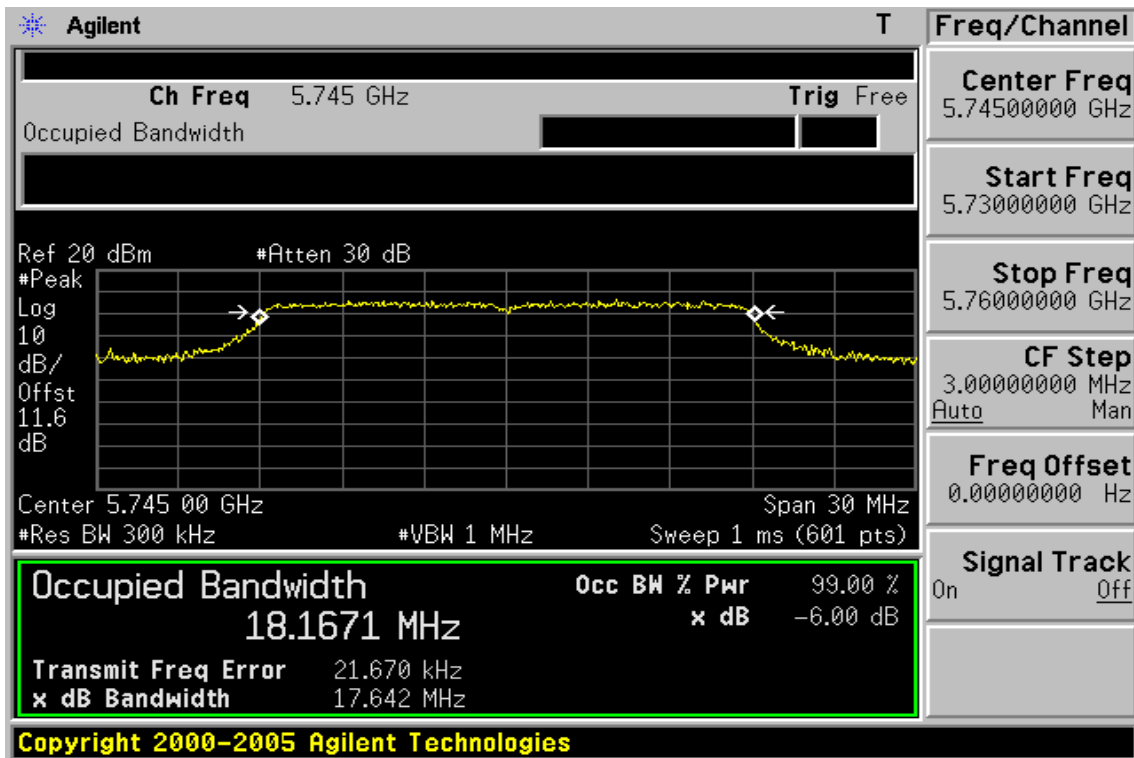
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99% Band Width Test Data CH-High



802.11n(5GHz)_20M

99% Band Width Test Data CH-Low



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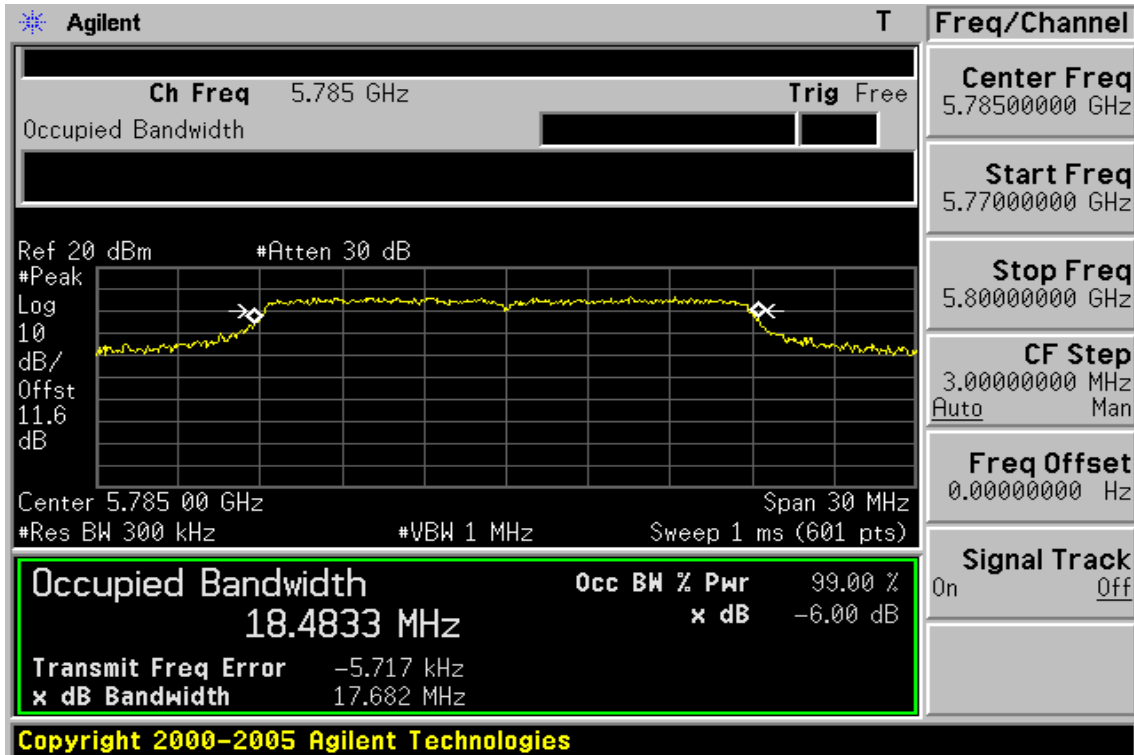
t (886-2) 2299-3279

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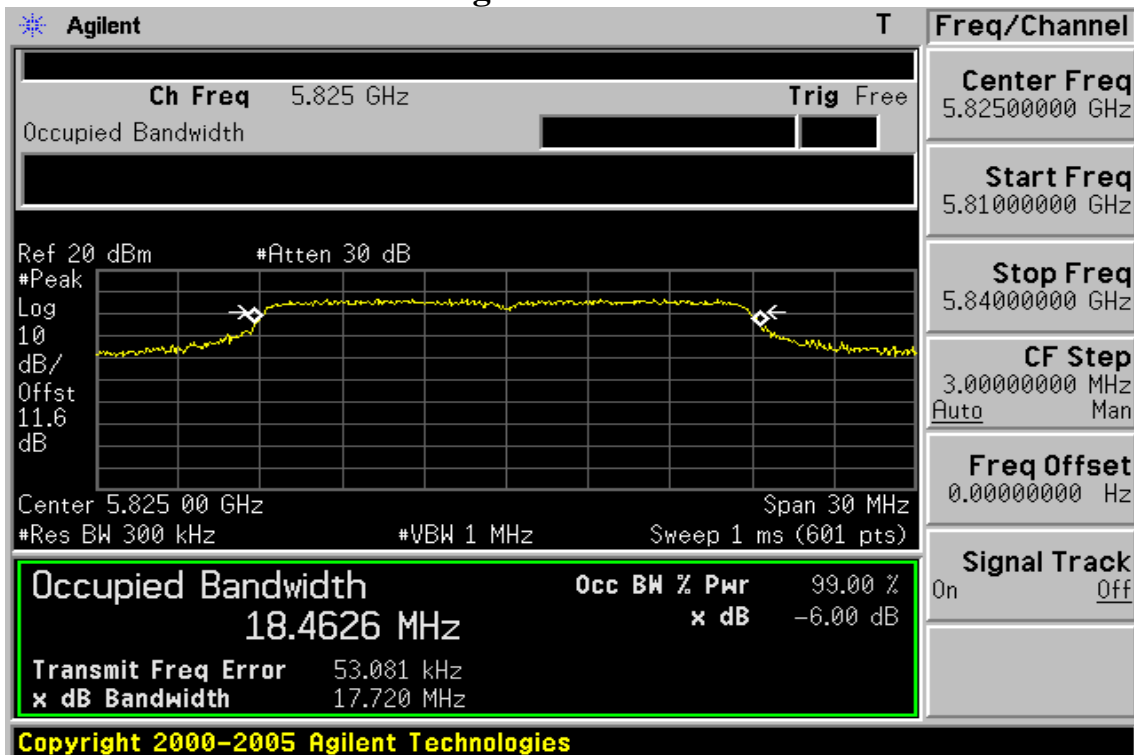
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99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High



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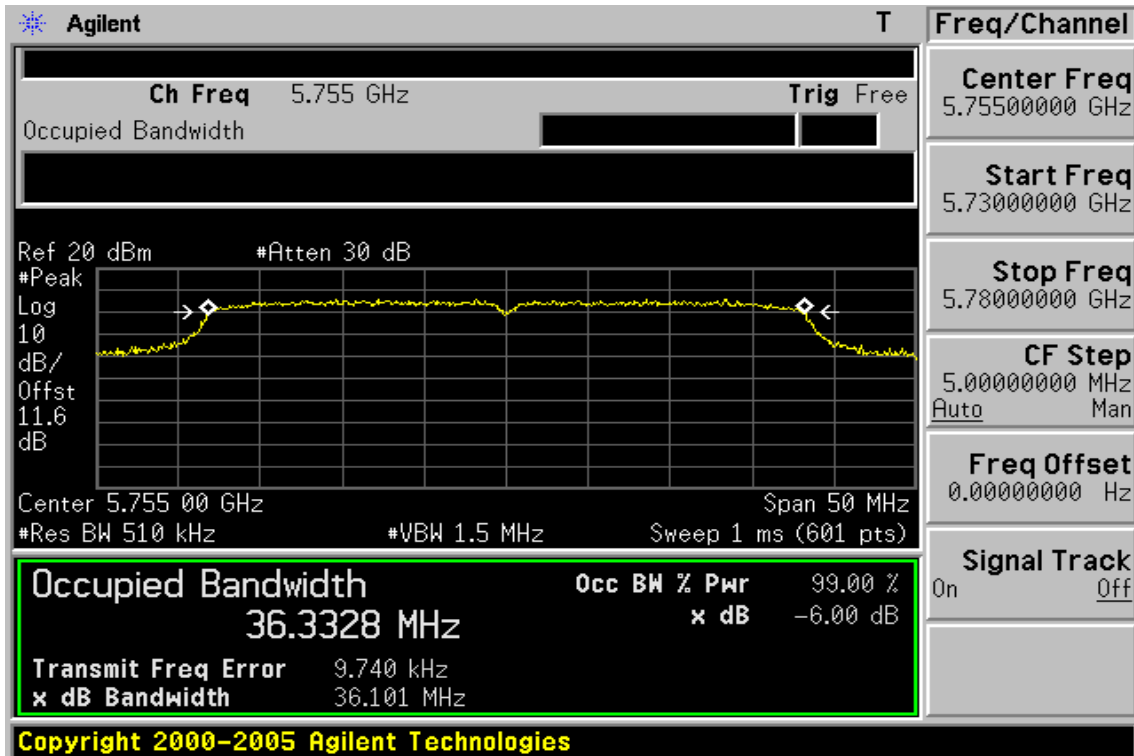
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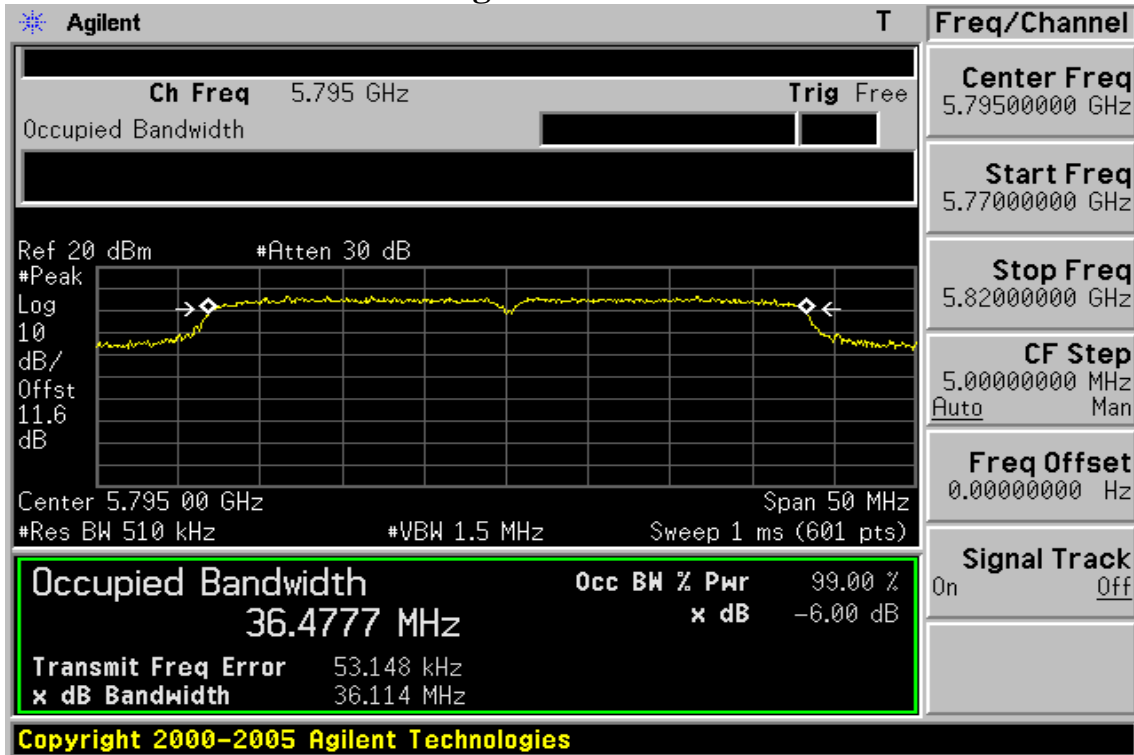
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802.11n(5GHz)_40M
99% Band Width Test Data CH-Low



99% Band Width Test Data CH-High



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APPENDIX 1

MEASUREMENT PLOT OF RADIATED SPURIOUS EMISSION

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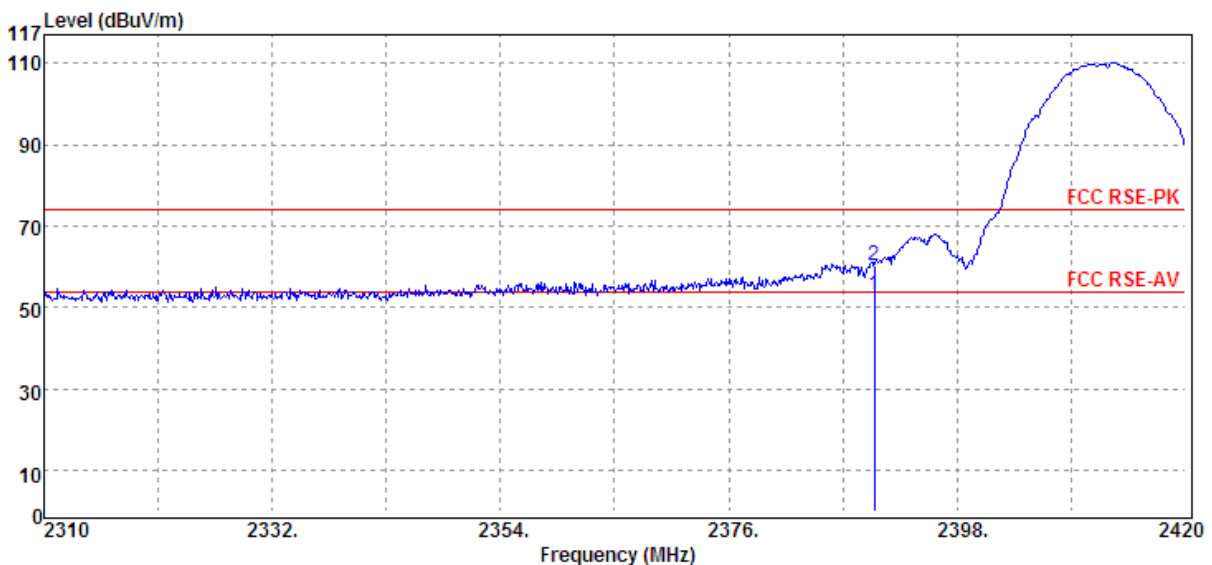
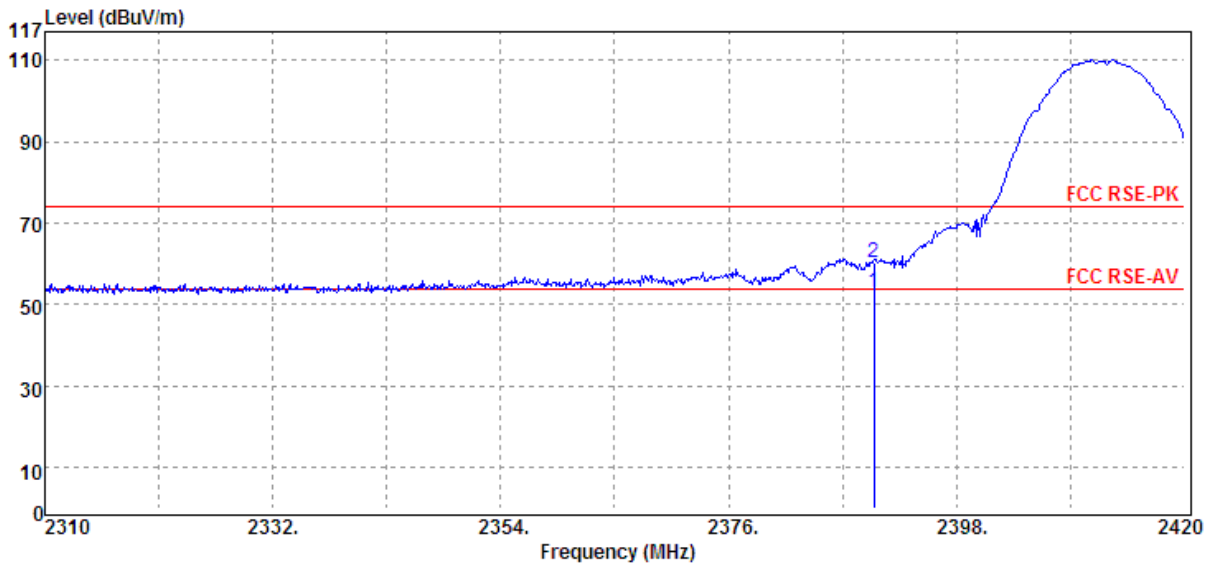
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Band Edges Radiated Emission:

Note: The emission that surpasses the limit of peak represents the fundamental emission of the operation that does not accounts to be conformed to the limit of the interest.

802.11b

| | | | |
|-----------------------|---------------|--------------------------|-----------------|
| Operation Band | :802.11b | Test Date | :2012-12-06 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :BANDEDGE LOW | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :Ver. / Hor. |



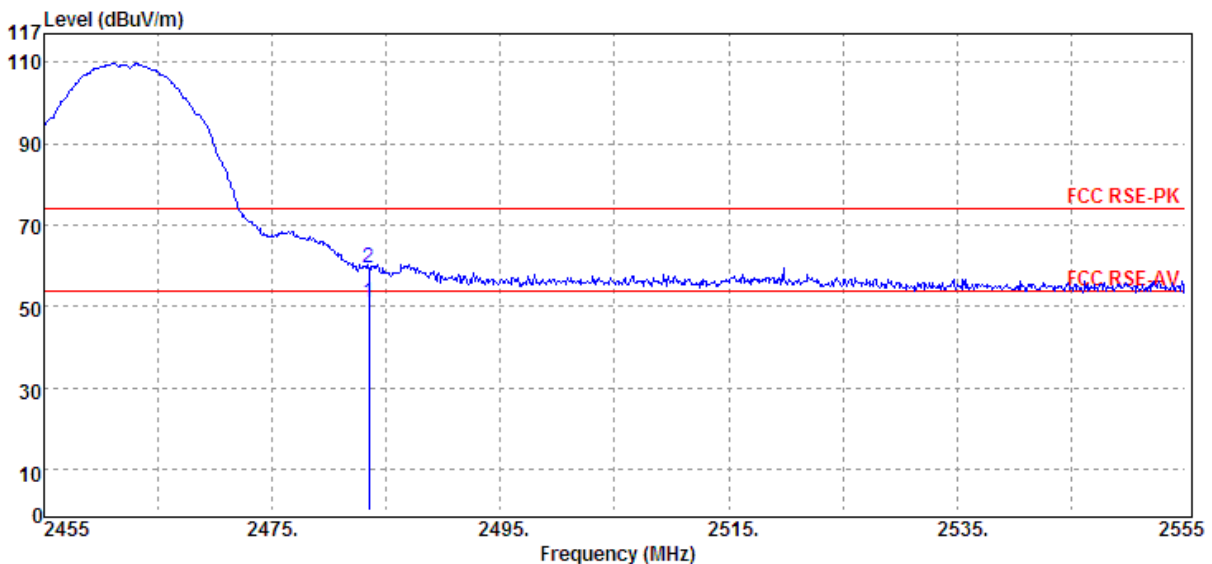
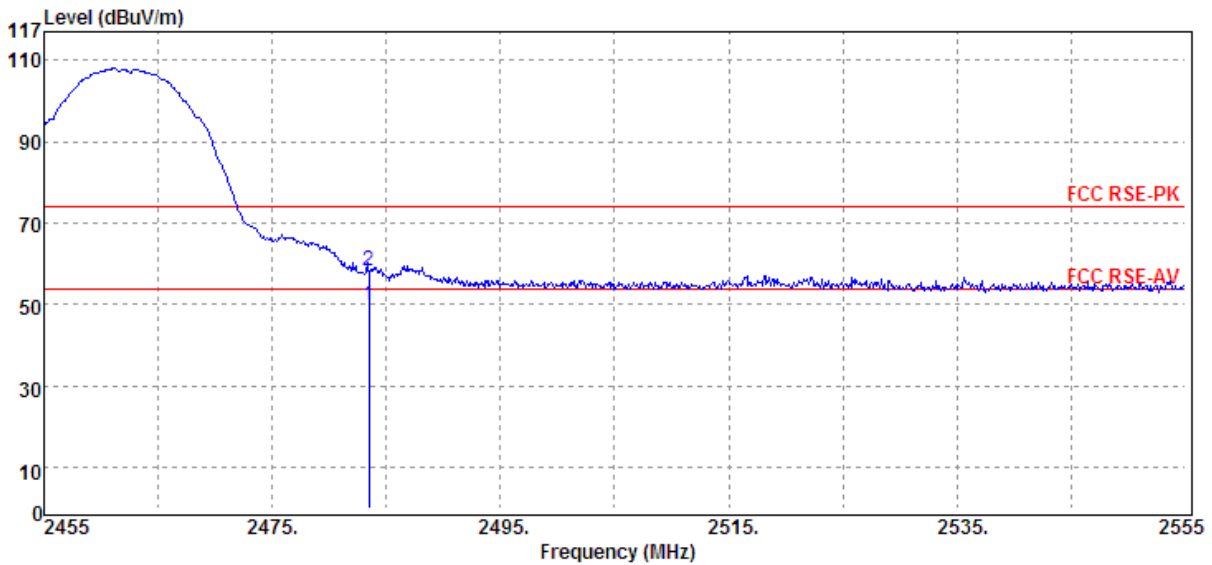
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| | | | |
|-----------------------|----------------|--------------------------|-----------------|
| Operation Band | :802.11b | Test Date | :2012-12-06 |
| Fundamental Frequency | :2462 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :BANDEDGE HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :Ver. / Hor. |



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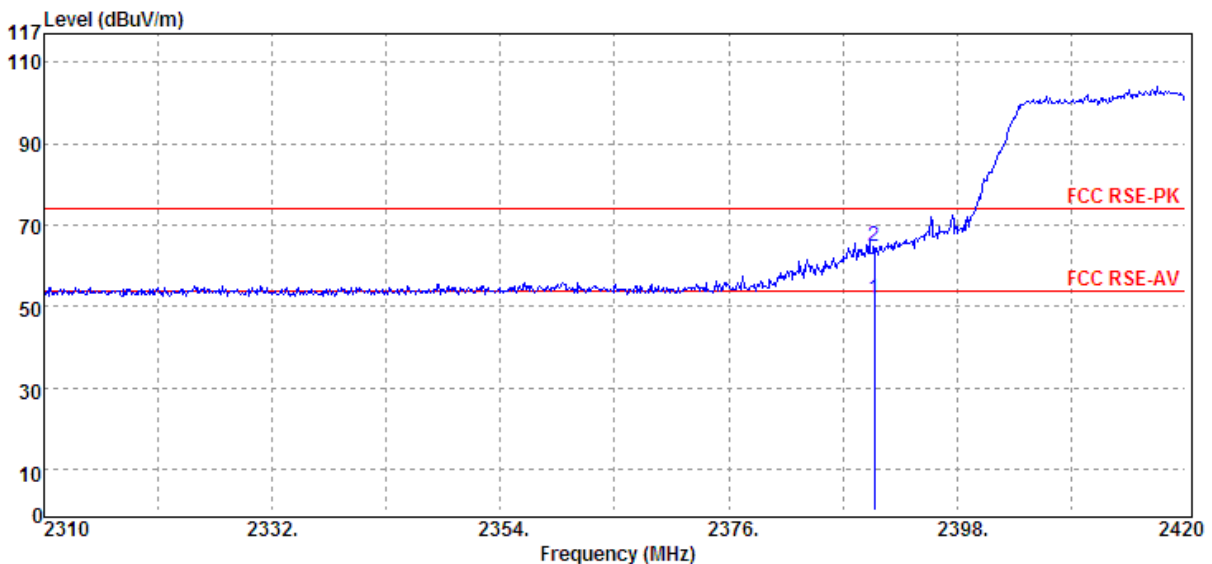
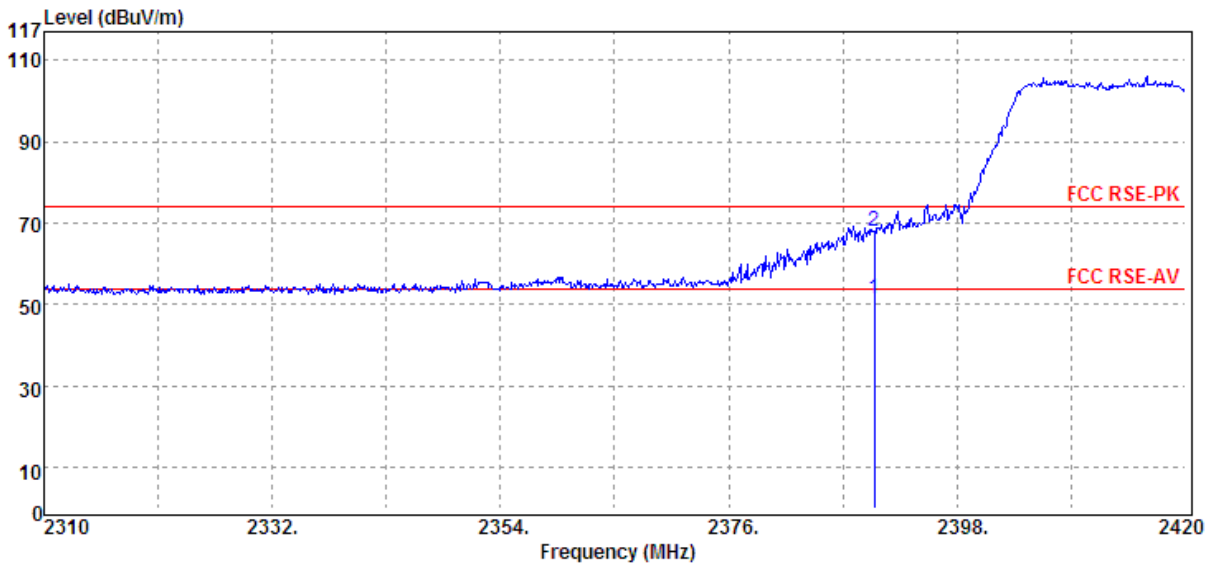
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802.11g

| | | | |
|-----------------------|---------------|--------------------------|-----------------|
| Operation Band | :802.11g | Test Date | :2012-12-06 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :BANDEDGE LOW | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :Ver. / Hor. |



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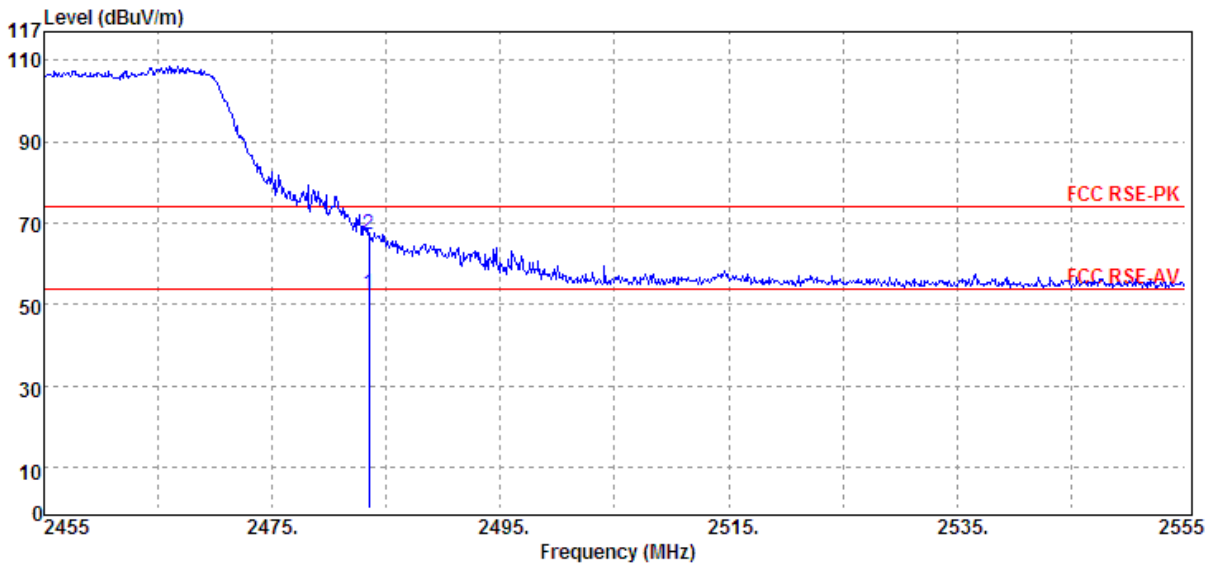
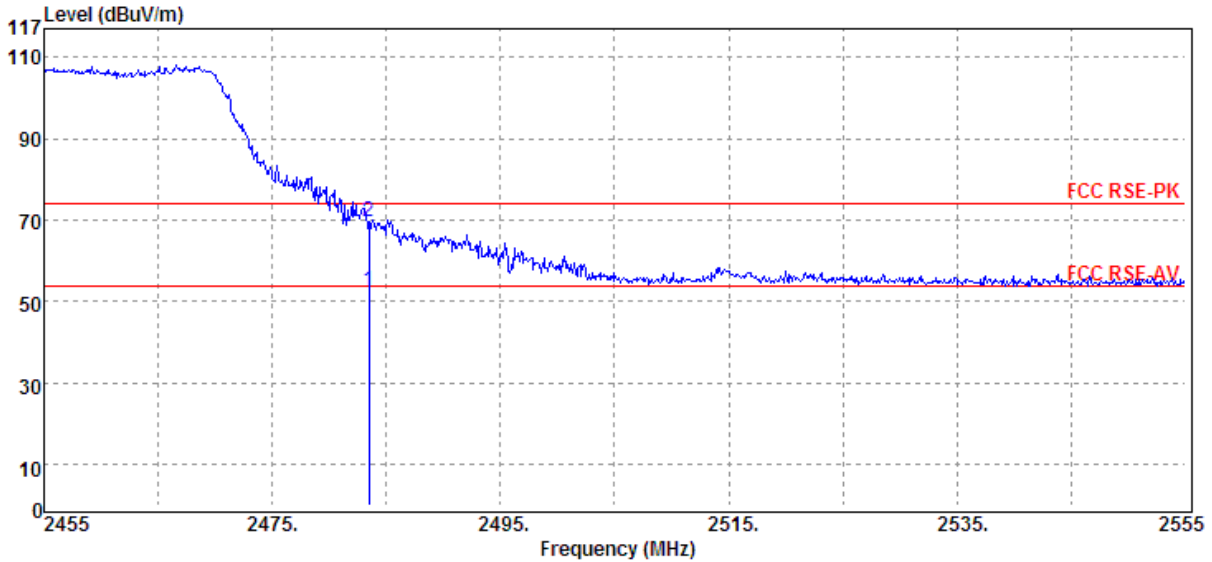
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| | | | |
|-----------------------|----------------|--------------------------|-----------------|
| Operation Band | :802.11g | Test Date | :2012-12-06 |
| Fundamental Frequency | :2462 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :BANDEDGE HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :Ver. / Hor. |



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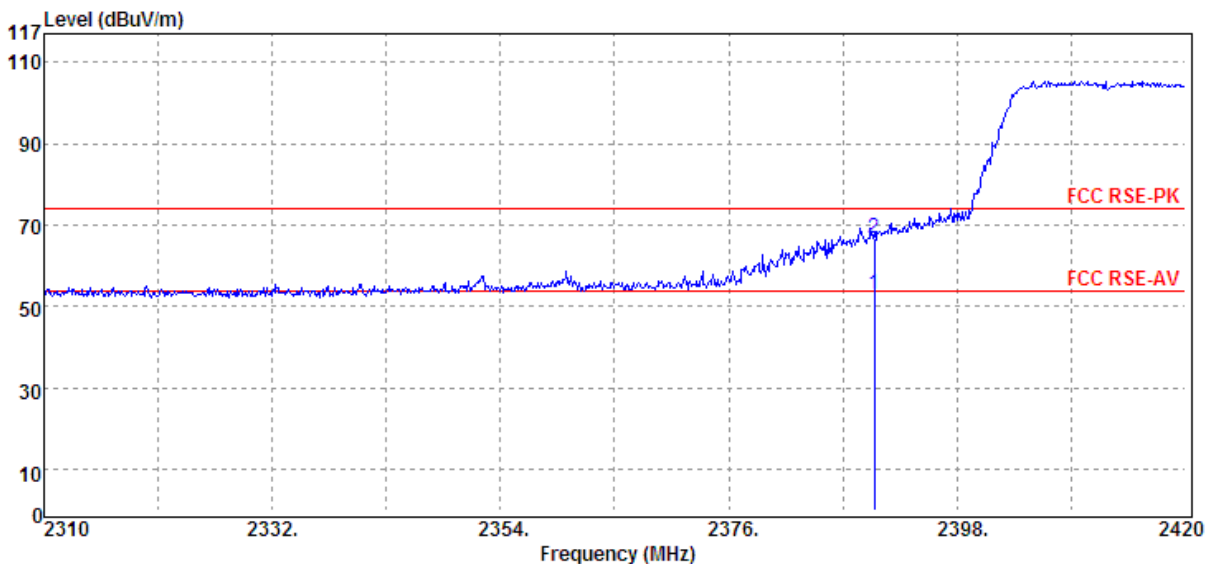
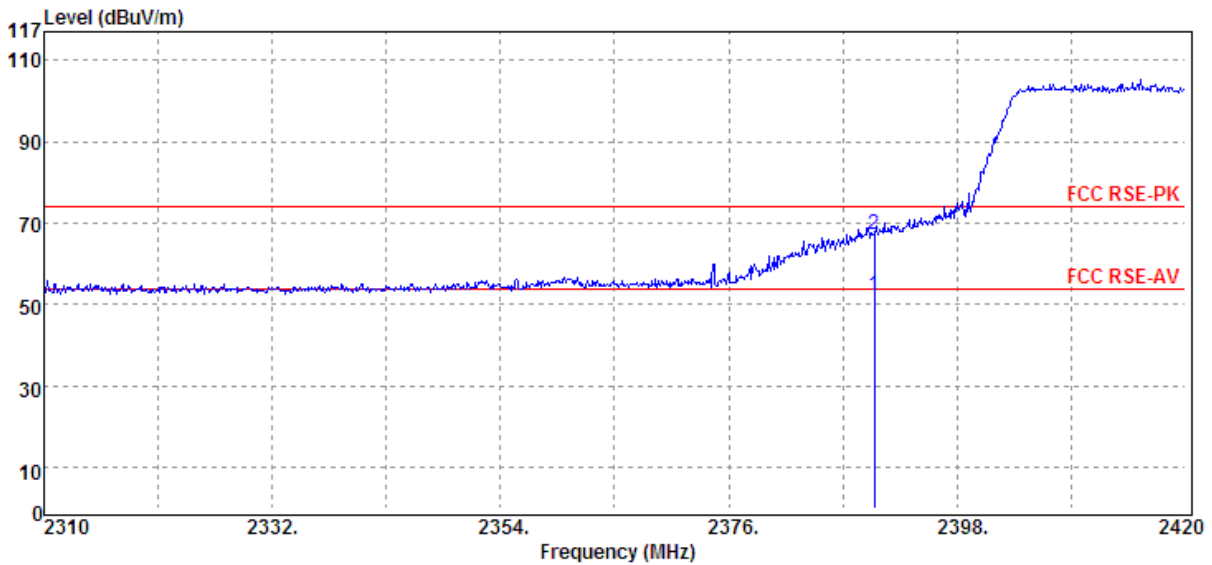
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11n_20 (2.4GHz)

| | | | |
|-----------------------|---------------|--------------------------|-----------------|
| Operation Band | :802.11n 20M | Test Date | :2012-12-06 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :BANDEDGE LOW | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :Ver. / Hor. |



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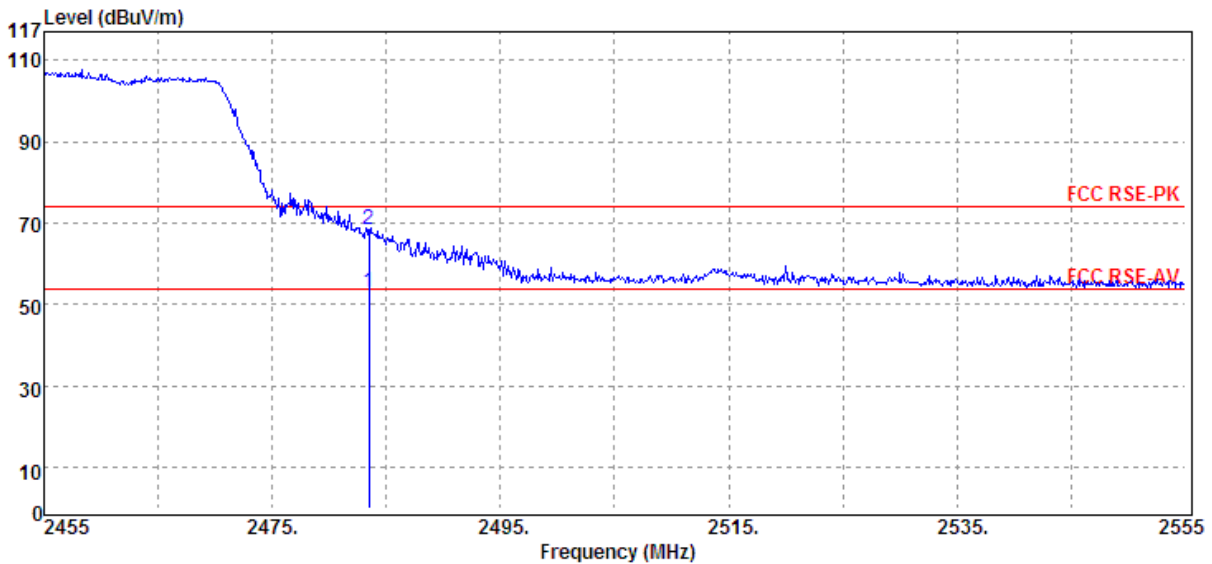
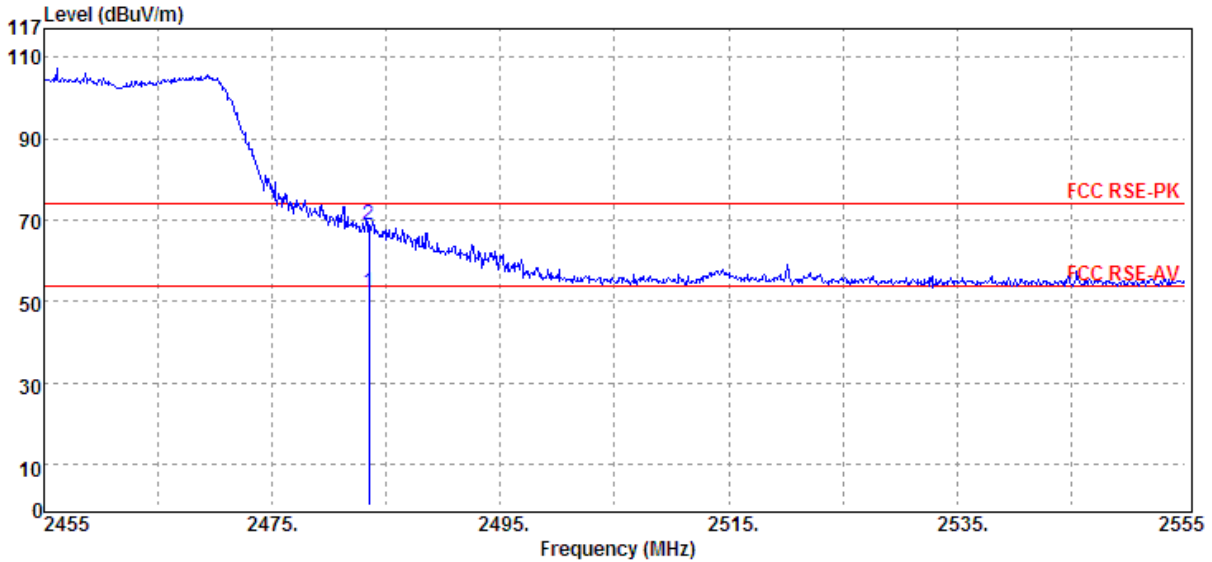
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| | | | |
|-----------------------|----------------|--------------------------|-----------------|
| Operation Band | :802.11 n 20M | Test Date | :2012-12-06 |
| Fundamental Frequency | :2462 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :BANDEDGE HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :Ver. / Hor. |



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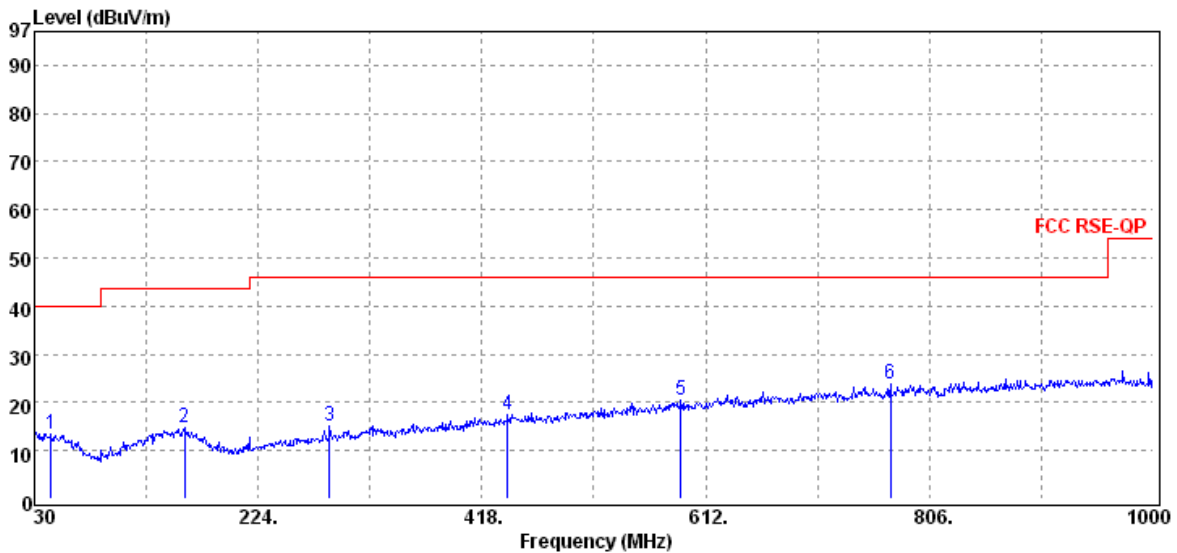
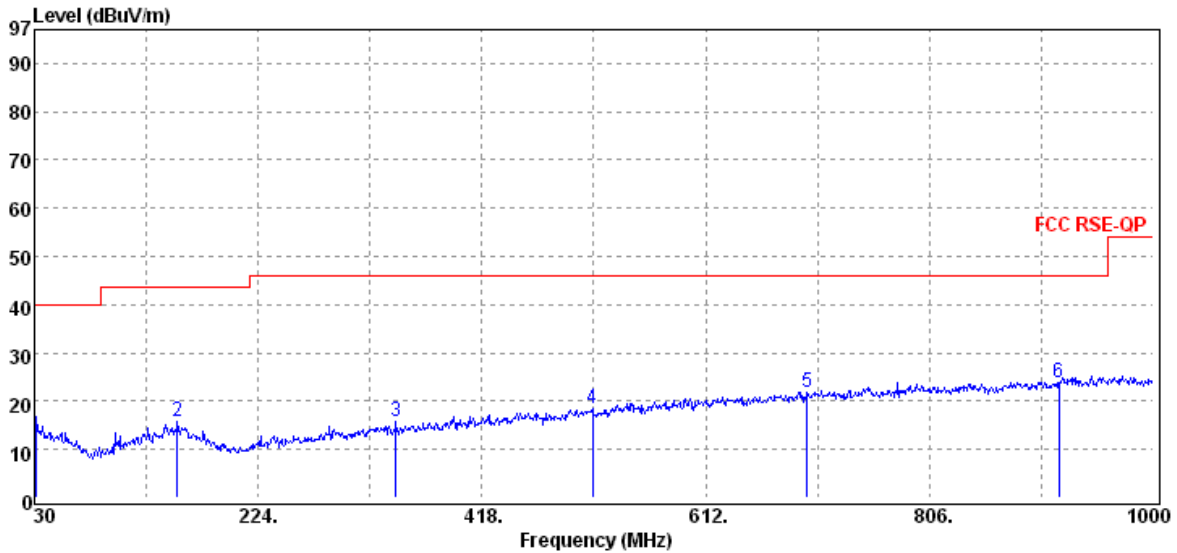
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Radiated Spurious Emission Measurement photos Result (below 1GHz)

| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11b | Test Date | :2012-11-28 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 | Measurement Antenna Pol. | :Ver. / Hor. |



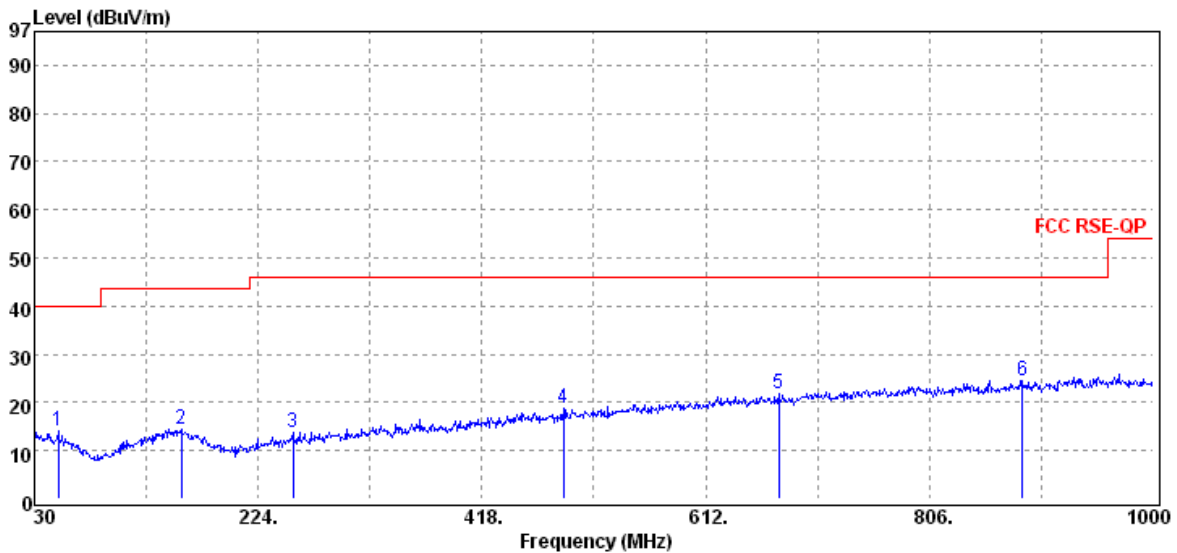
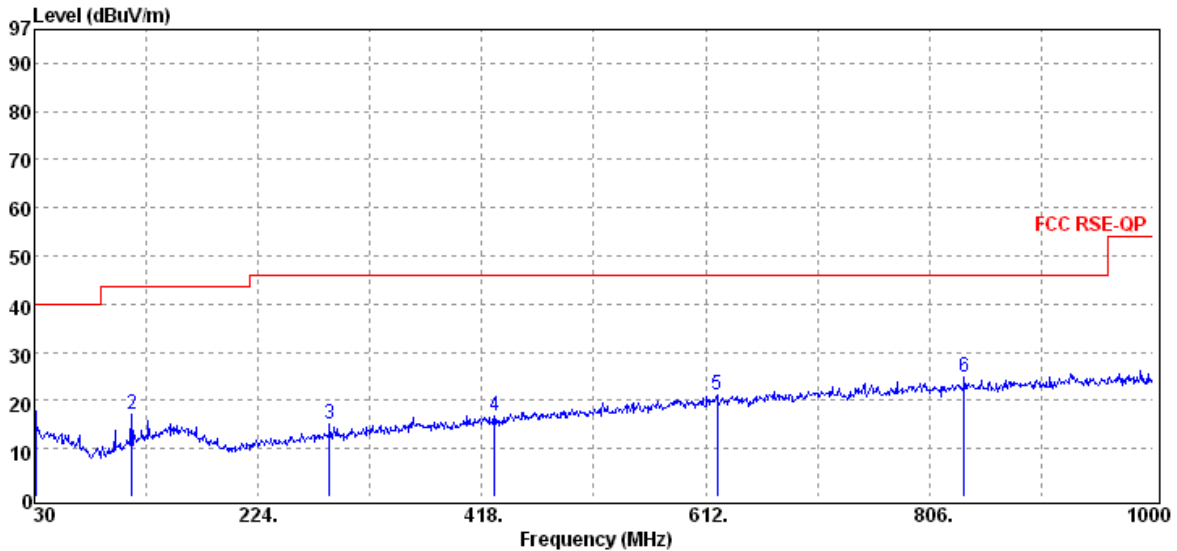
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Operation Band :802.11b
Fundamental Frequency :2437 MHz
Operation Mode :TX MID
EUT Pol. :E2

Test Date :2012-11-28
Temp./Humi. :22.7deg_C/57RH
Engineer :Marcus
Measurement Antenna Pol. :Ver. / Hor.



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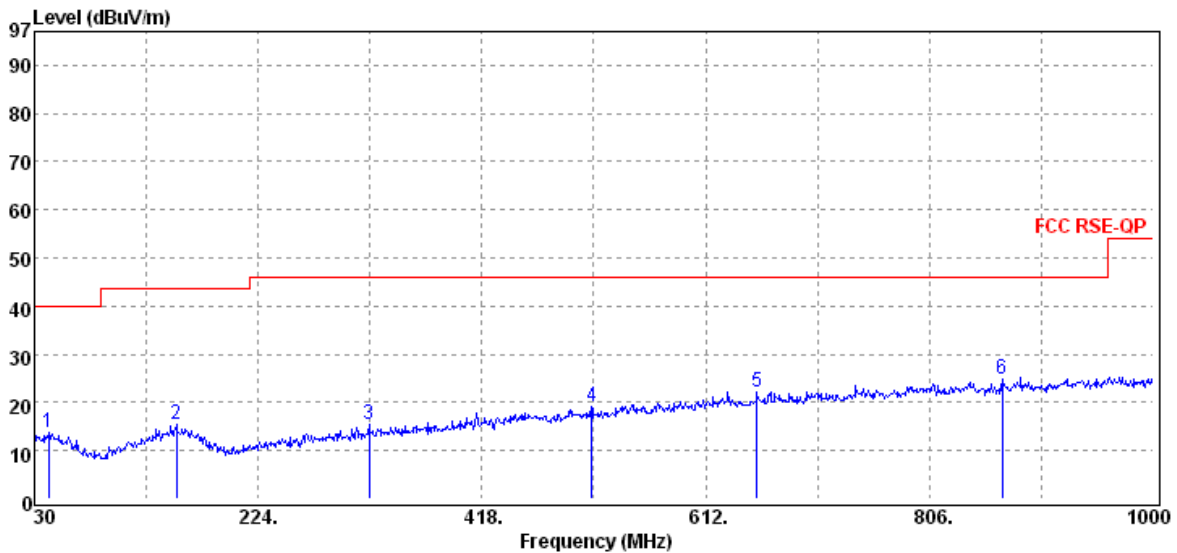
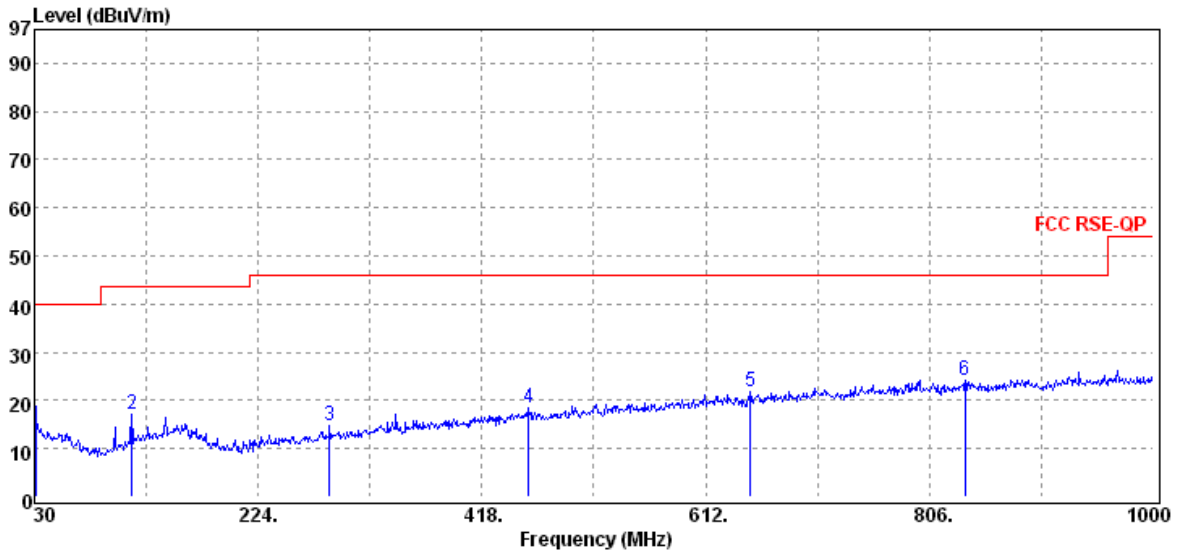
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Operation Band :802.11b
Fundamental Frequency :2462 MHz
Operation Mode :TX HIGH
EUT Pol. :E2

Test Date :2012-11-28
Temp./Humi. :22.7deg_C/57RH
Engineer :Marcus
Measurement Antenna Pol. :Ver. / Hor.



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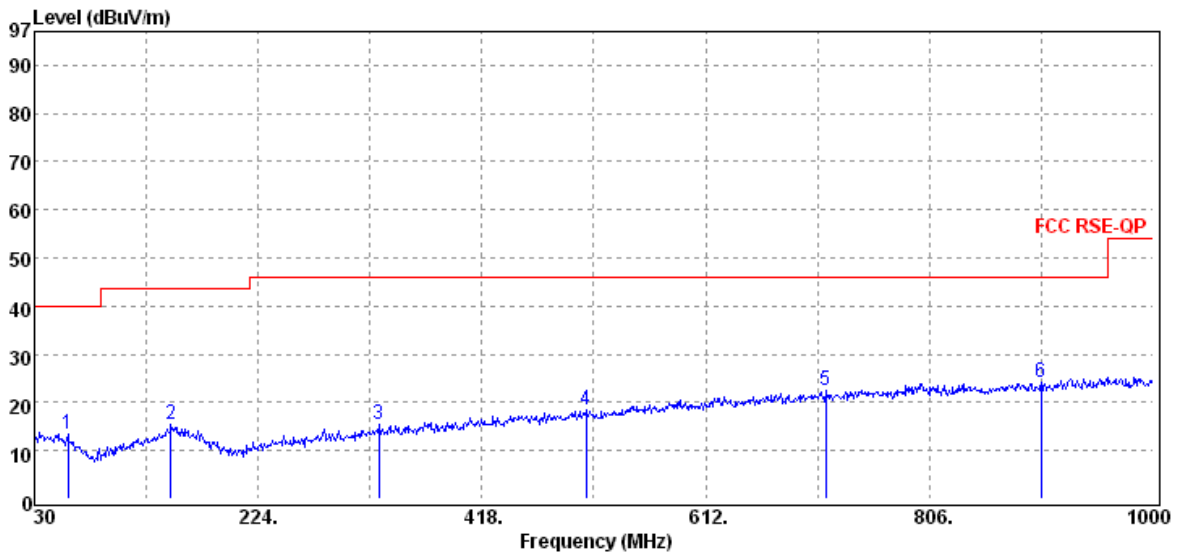
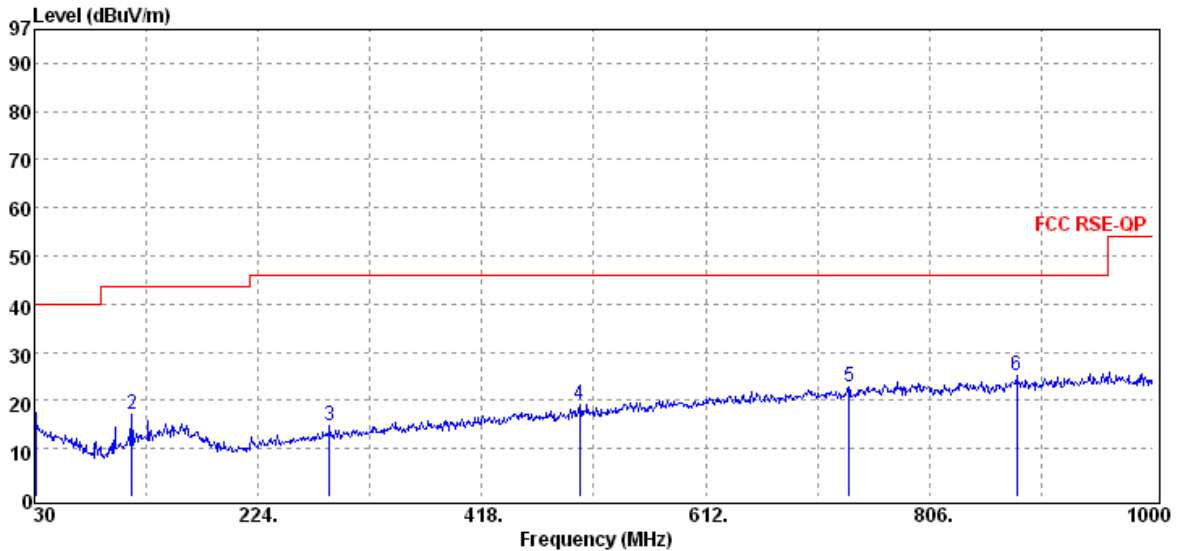
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Operation Band :802.11g
Fundamental Frequency :2412 MHz
Operation Mode :TX LOW
EUT Pol. :E2

Test Date :2012-11-28
Temp./Humi. :22.7deg_C/57RH
Engineer :Marcus
Measurement Antenna Pol. :Ver. / Hor.



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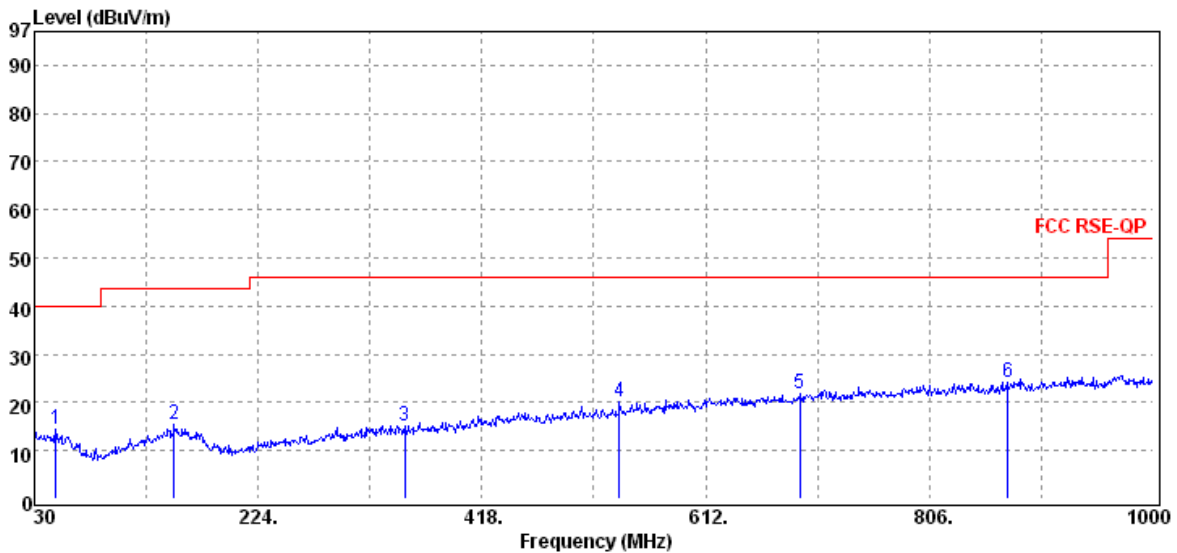
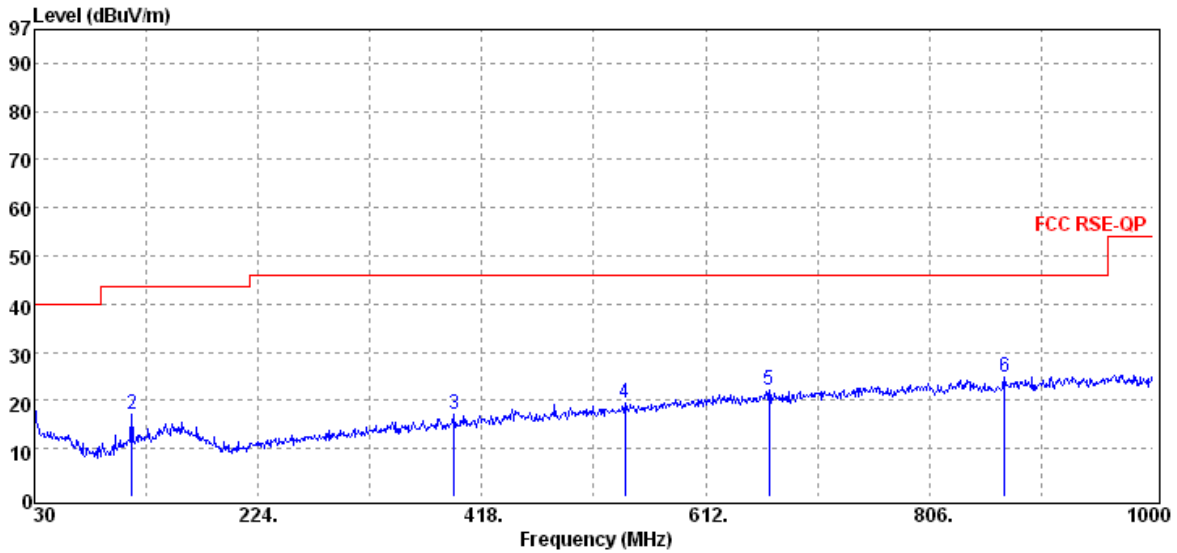
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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11g | Test Date | :2012-11-28 |
| Fundamental Frequency | :2437 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :E2 | Measurement Antenna Pol. | :Ver. / Hor. |



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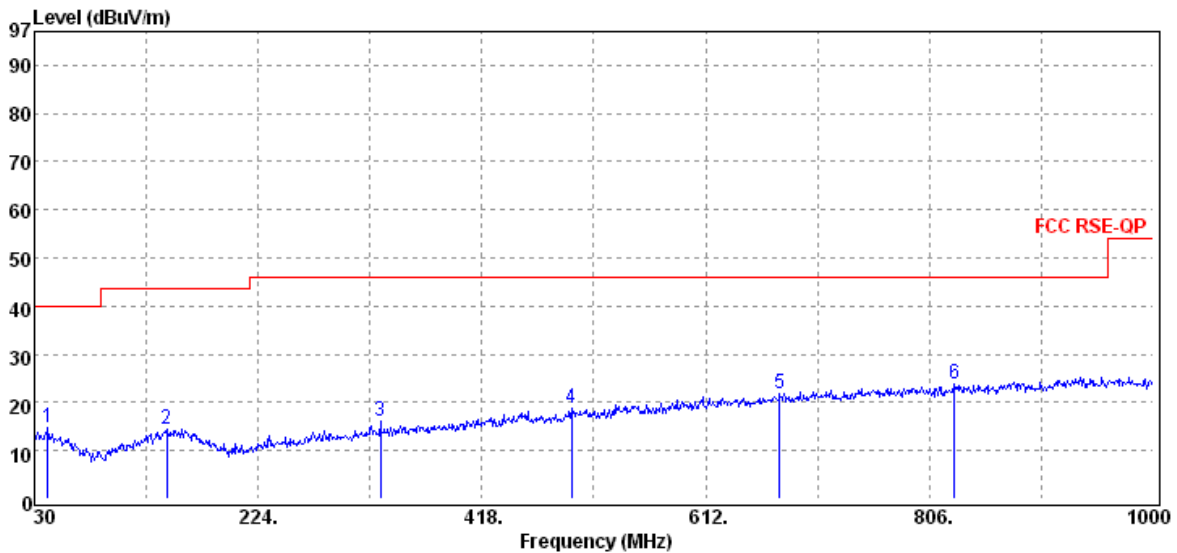
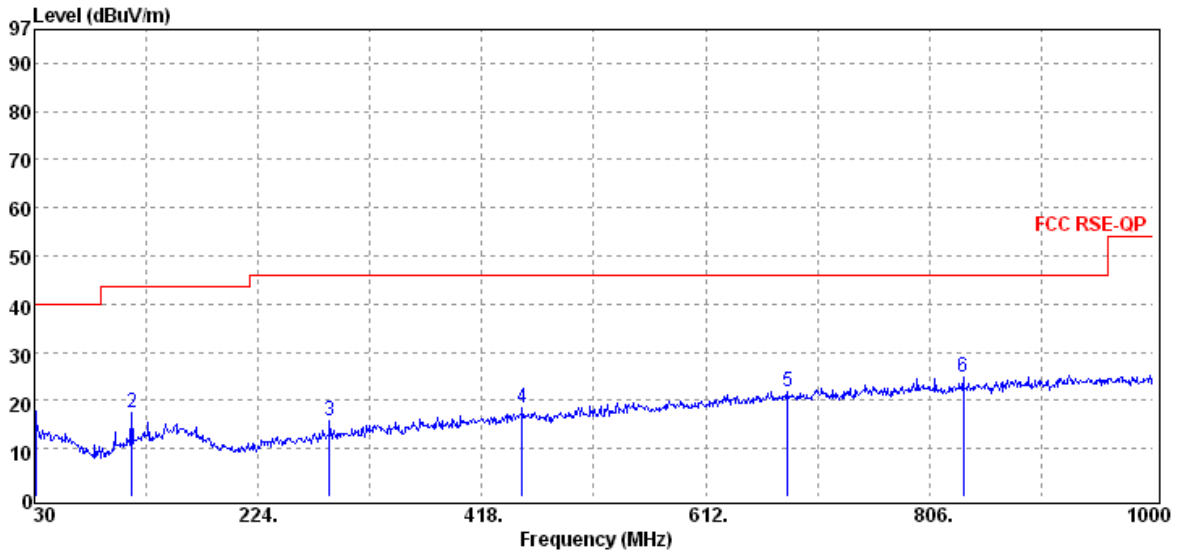
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Operation Band :802.11g
Fundamental Frequency :2462 MHz
Operation Mode :TX HIGH
EUT Pol. :E2

Test Date :2012-11-28
Temp./Humi. :22.7deg_C/57RH
Engineer :Marcus
Measurement Antenna Pol. :Ver. / Hor.



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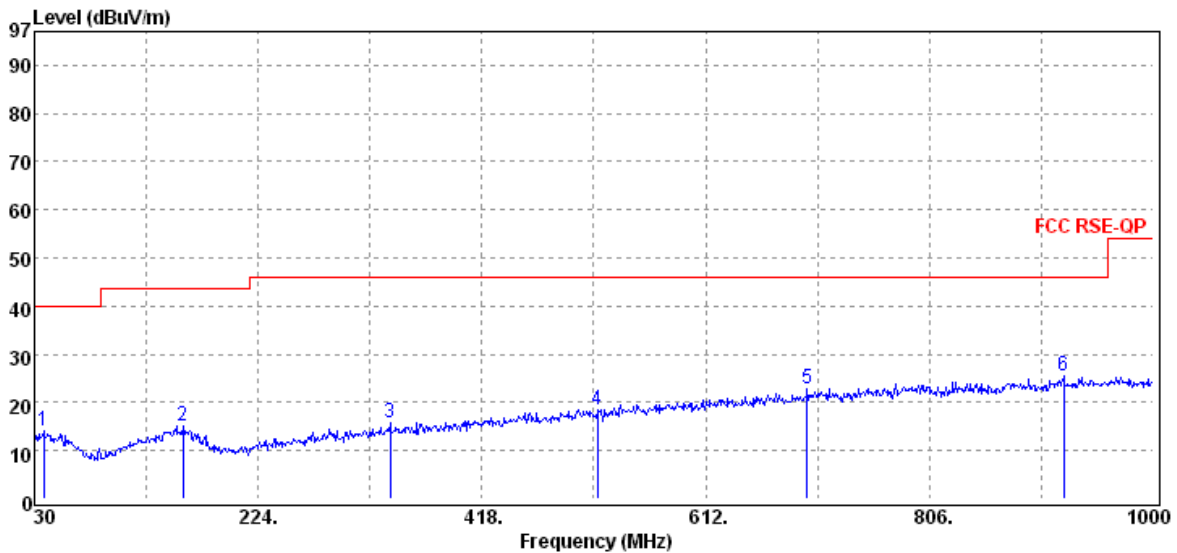
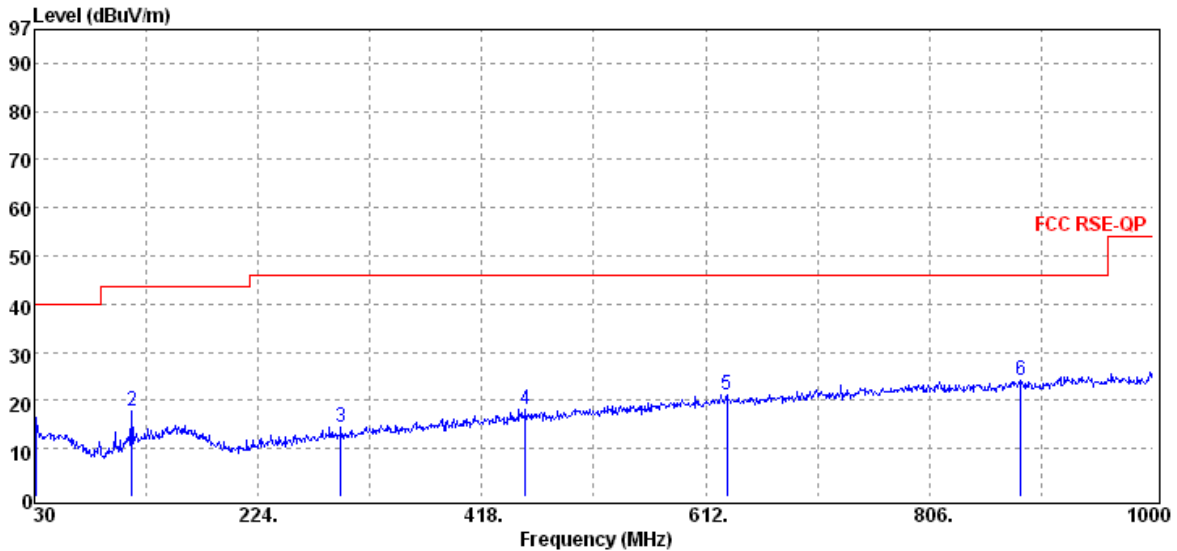
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Operation Band :802.11n 20M
Fundamental Frequency :2412 MHz
Operation Mode :TX LOW
EUT Pol. :E2

Test Date :2012-11-28
Temp./Humi. :22.7deg_C/57RH
Engineer :Marcus
Measurement Antenna Pol. :Ver. / Hor.



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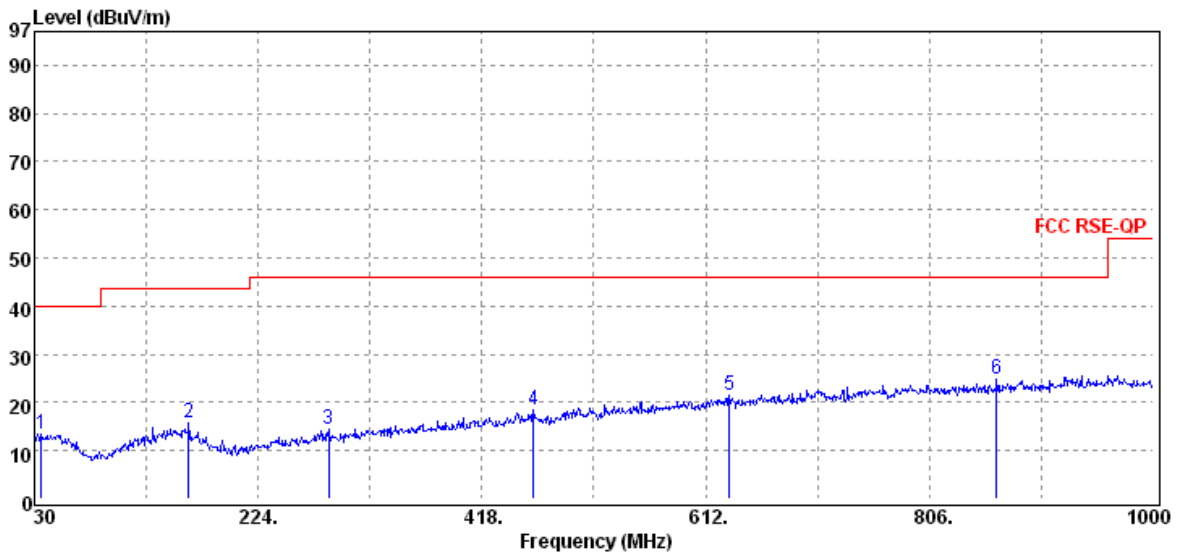
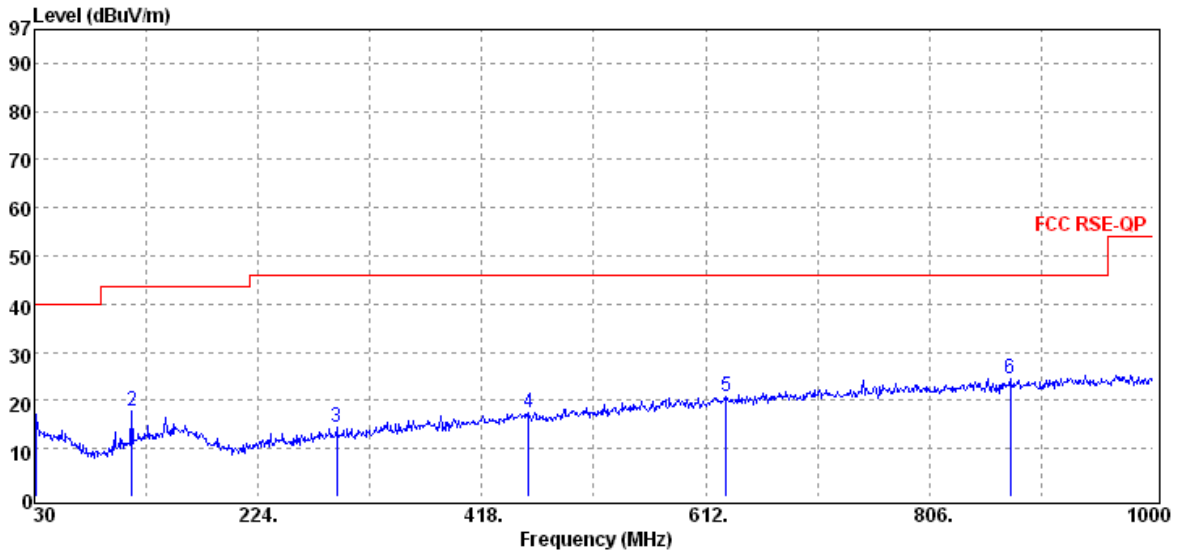
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Operation Band :802.11n 20M
Fundamental Frequency :2437 MHz
Operation Mode :TX MID
EUT Pol. :E2

Test Date :2012-11-28
Temp./Humi. :22.7deg_C/57RH
Engineer :Marcus
Measurement Antenna Pol. :Ver. / Hor.



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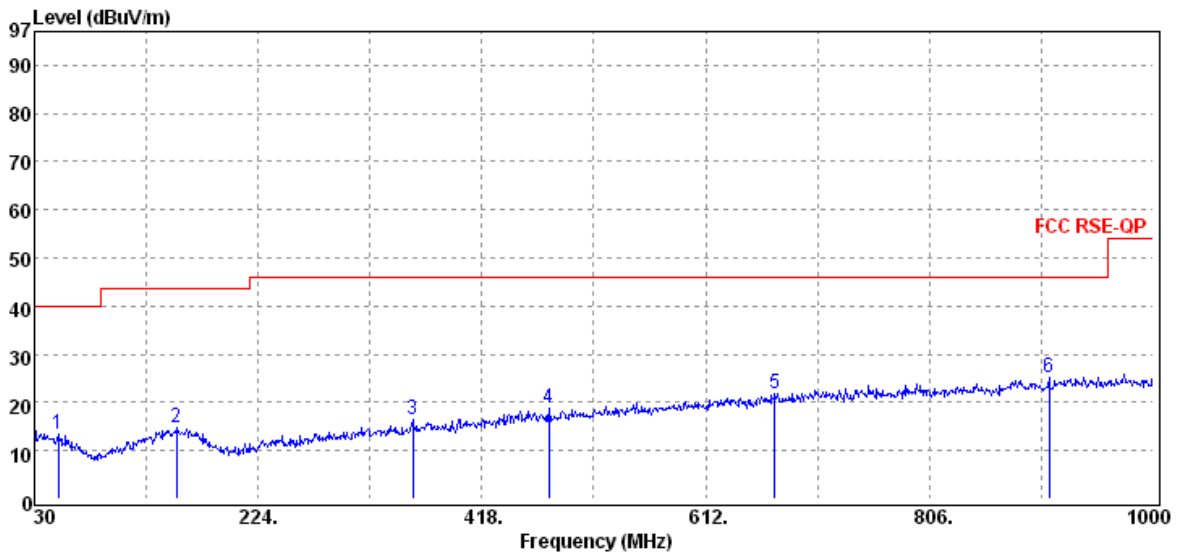
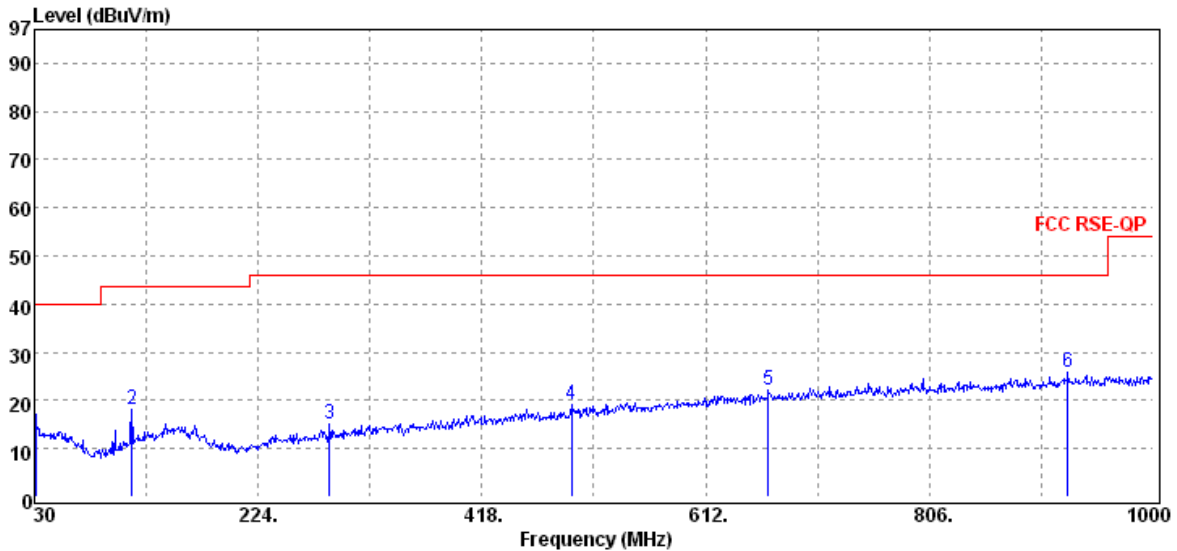
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Operation Band :802.11n 20M
Fundamental Frequency :2462 MHz
Operation Mode :TX HIGH
EUT Pol. :E2

Test Date :2012-11-28
Temp./Humi. :22.7deg_C/57RH
Engineer :Marcus
Measurement Antenna Pol. :Ver. / Hor.



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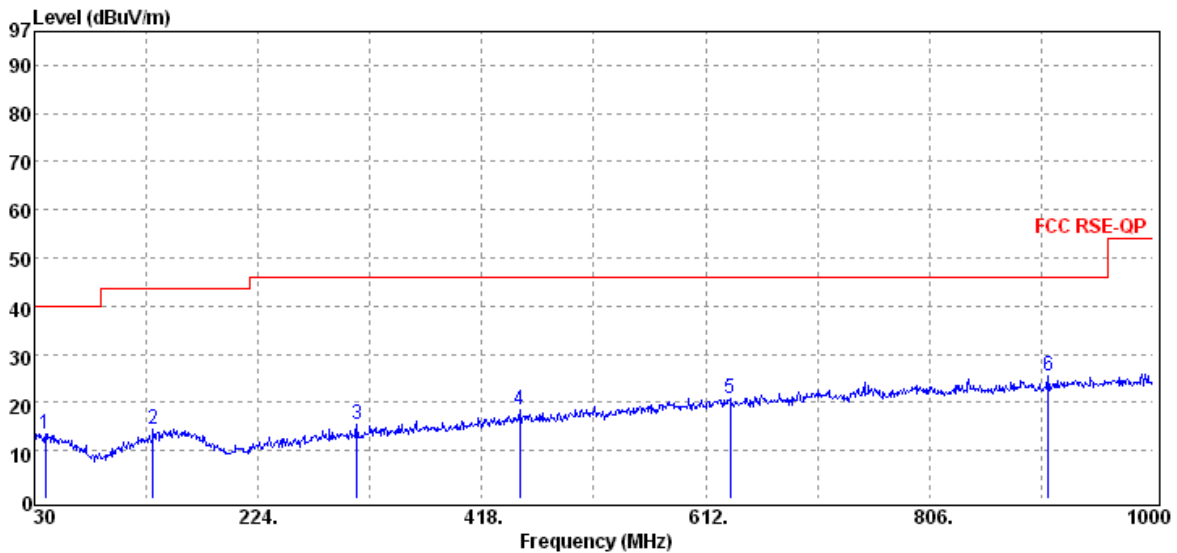
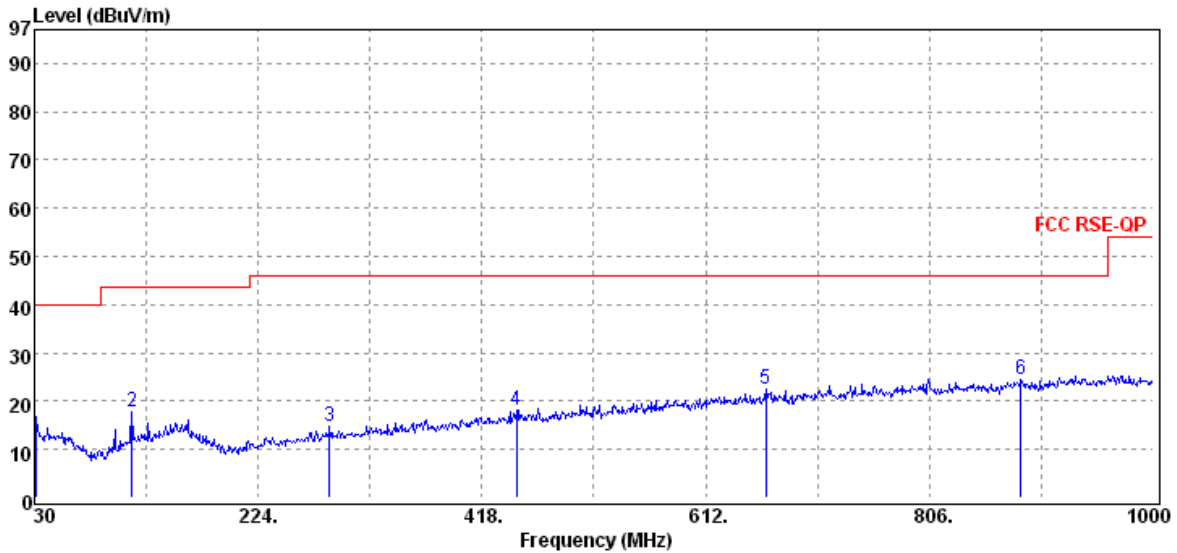
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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-28 |
| Fundamental Frequency | :5745 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :Ver. / Hor. |



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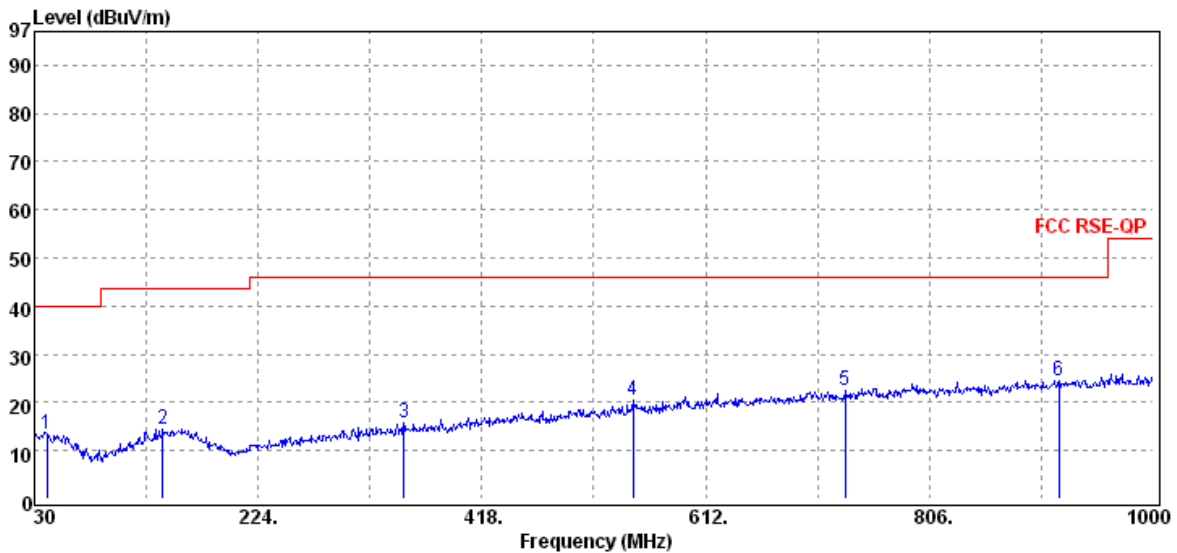
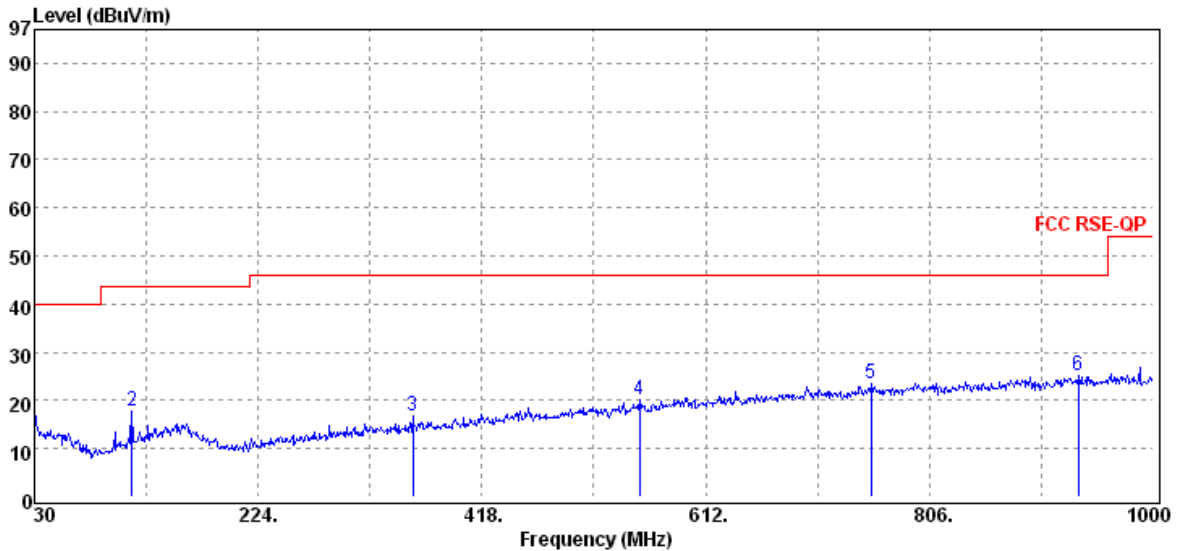
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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-28 |
| Fundamental Frequency | :5785 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :Ver. / Hor. |



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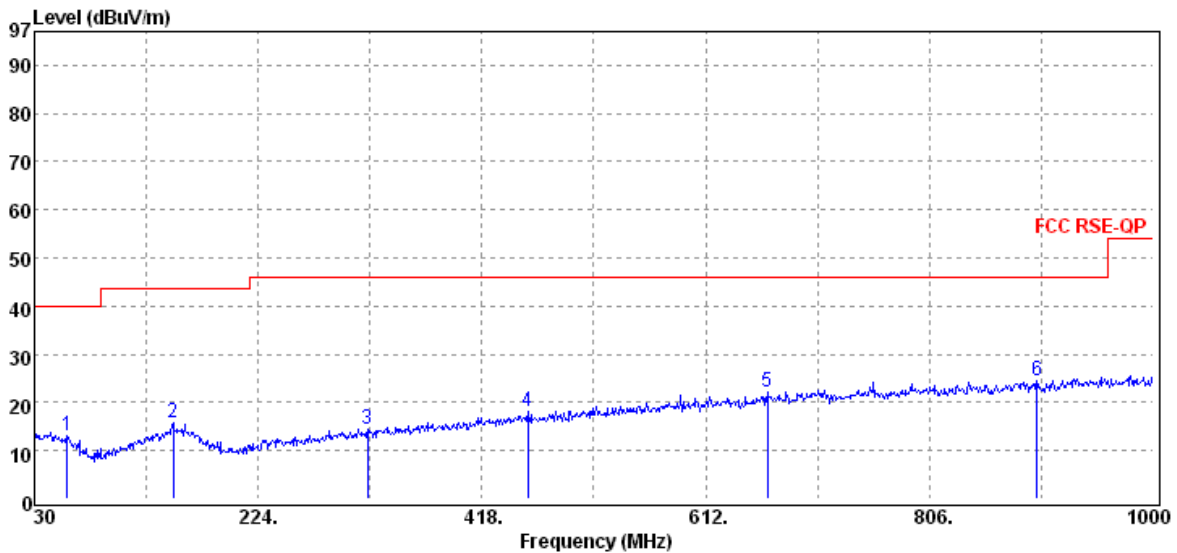
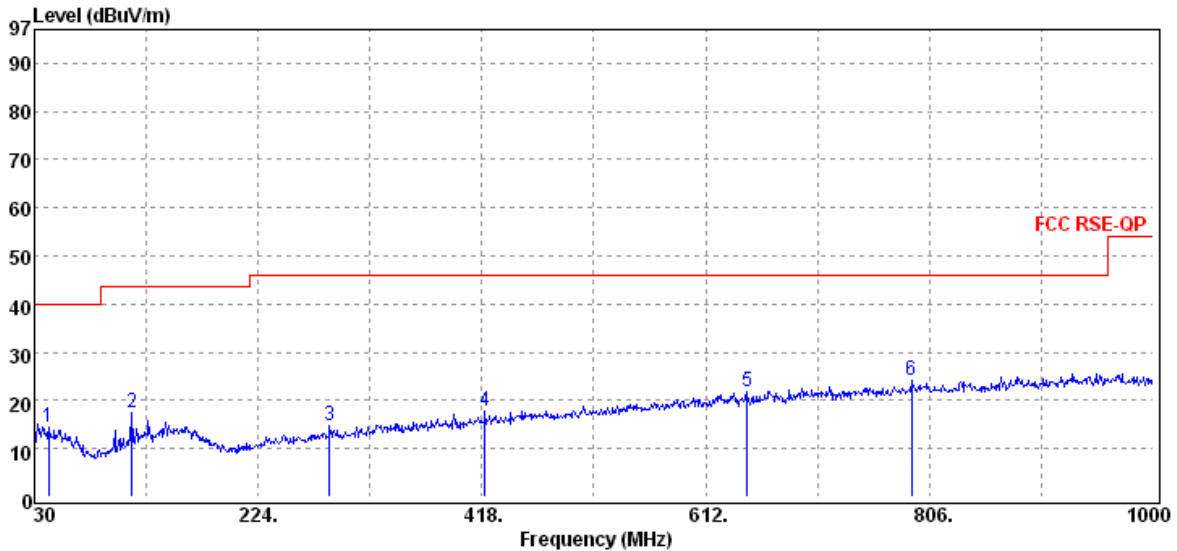
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Operation Band :802.11a
Fundamental Frequency :5825 MHz
Operation Mode :TX HIGH
EUT Pol. :E2 Plan

Test Date :2012-11-28
Temp./Humi. :22.7deg_C/57RH
Engineer :Marcus
Measurement Antenna Pol. :Ver. / Hor.



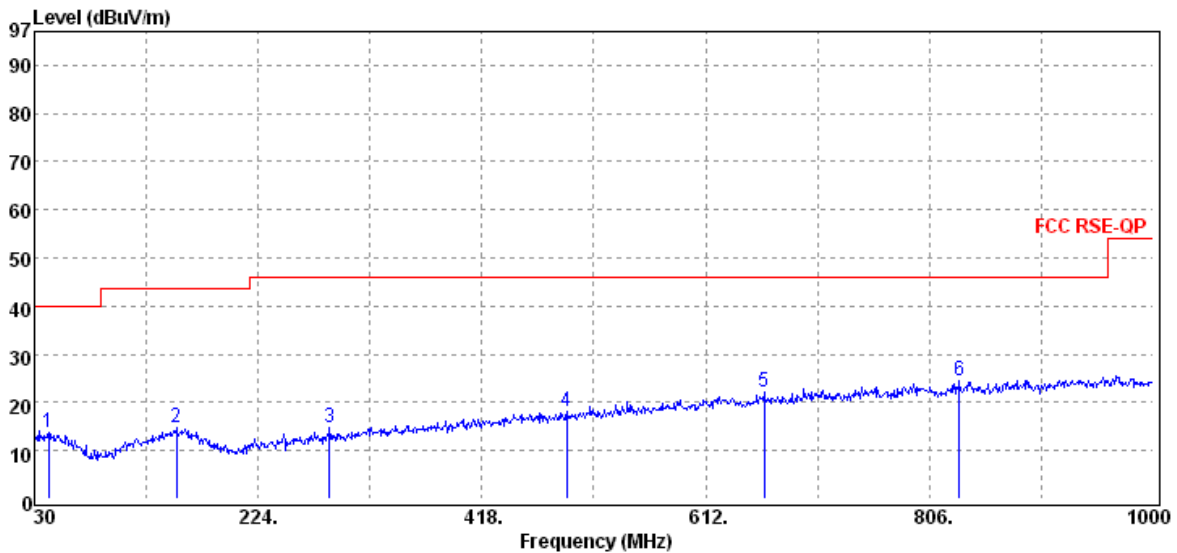
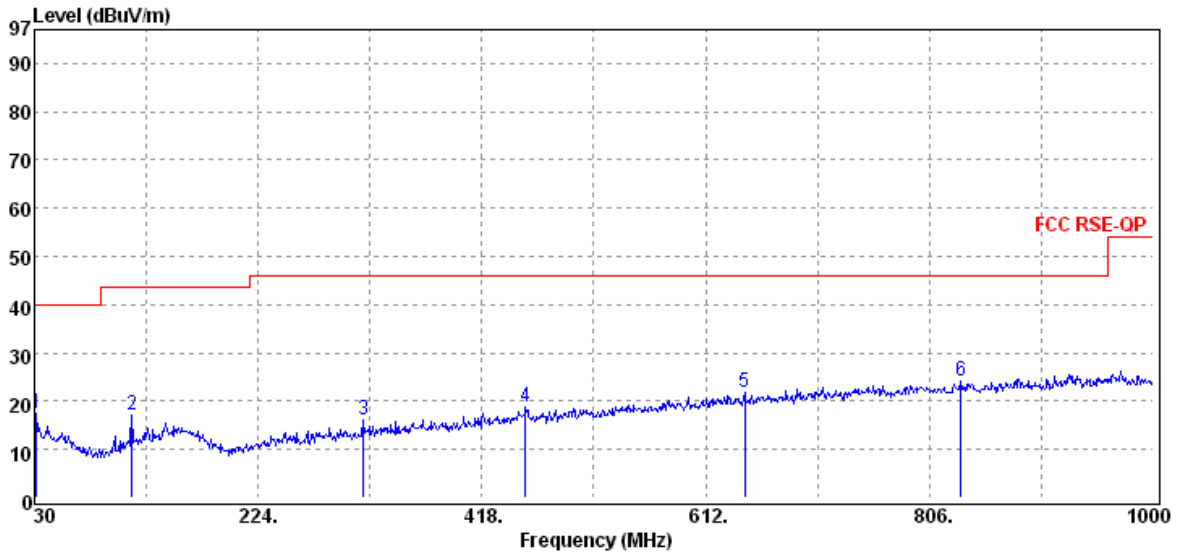
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Operation Band :802.11n 20M
Fundamental Frequency :5745 MHz
Operation Mode :TX LOW
EUT Pol. :E2 Plan

Test Date :2012-11-28
Temp./Humi. :22.7deg_C/57RH
Engineer :Marcus
Measurement Antenna Pol. :Ver. / Hor.



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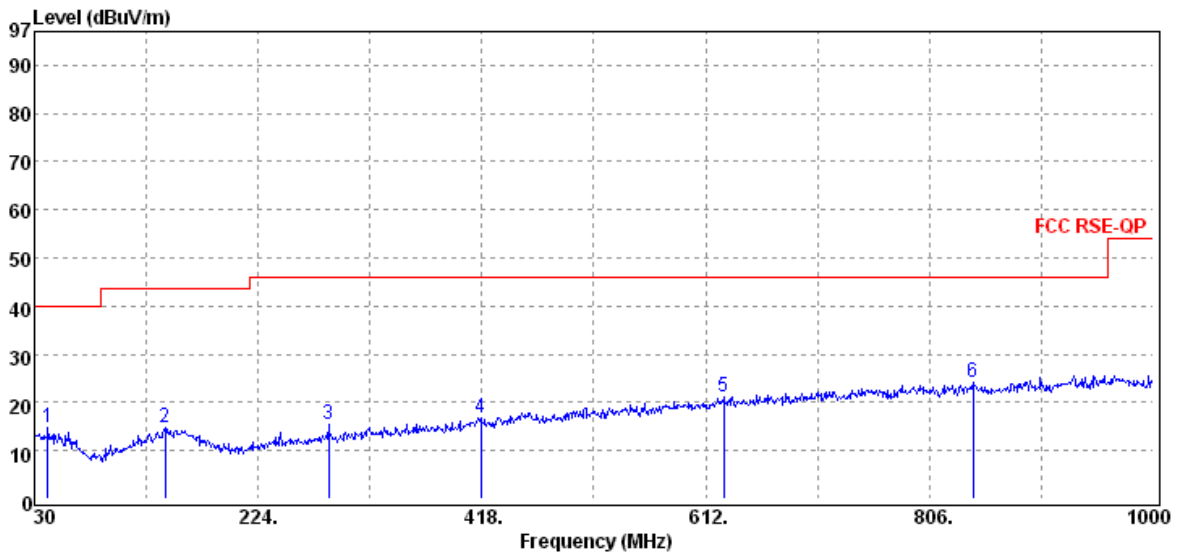
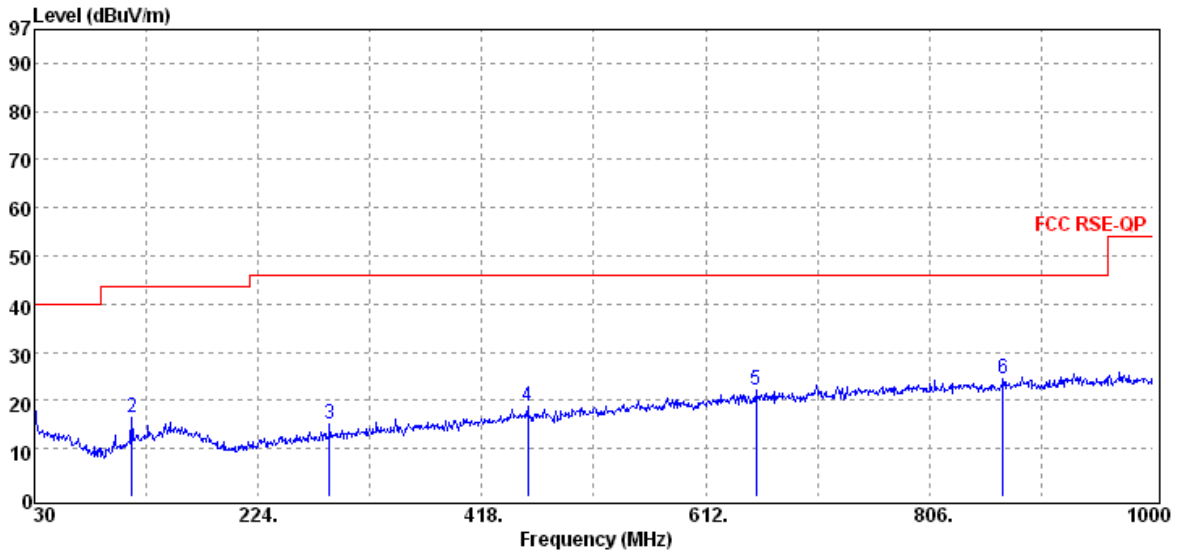
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Operation Band :802.11n 20M
Fundamental Frequency :5785 MHz
Operation Mode :TX MID
EUT Pol. :E2 Plan

Test Date :2012-11-28
Temp./Humi. :22.7deg_C/57RH
Engineer :Marcus
Measurement Antenna Pol. :Ver. /Hor.



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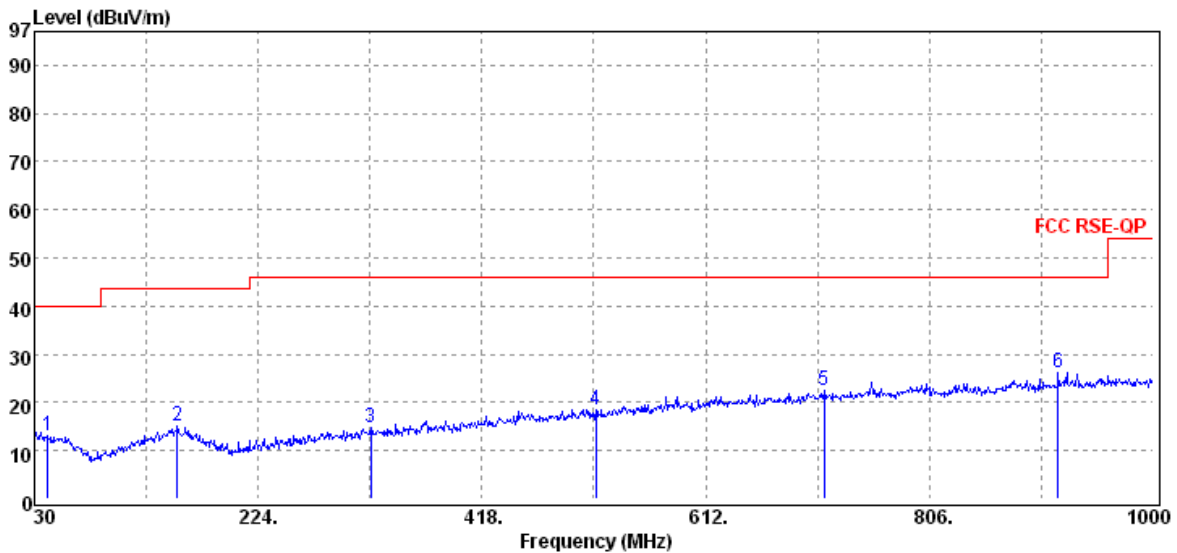
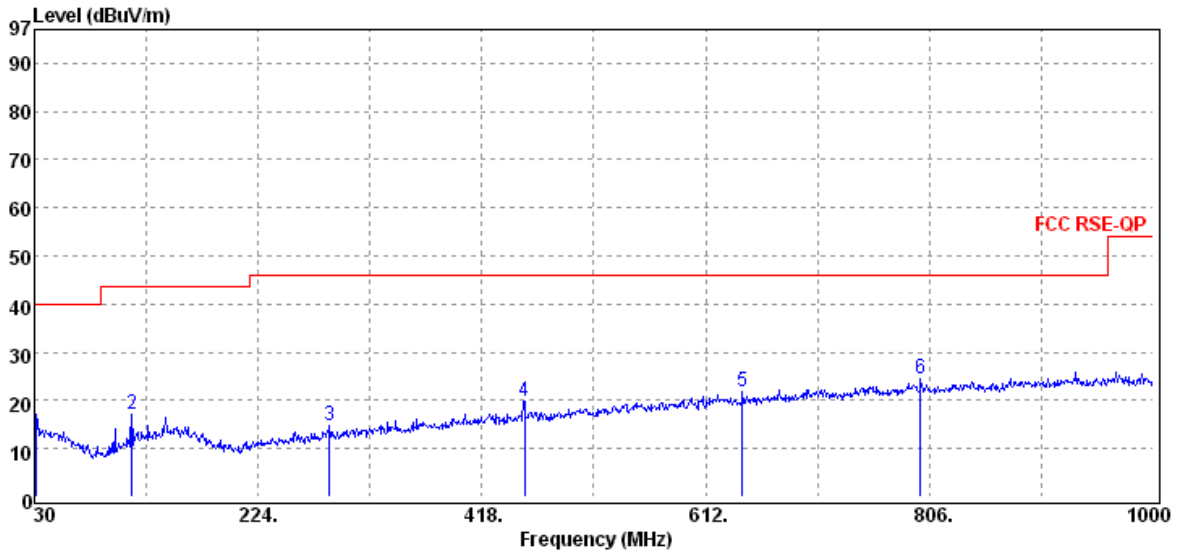
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Operation Band :802.11n 20M
Fundamental Frequency :5825 MHz
Operation Mode :TX HIGH
EUT Pol. :E2

Test Date :2012-11-28
Temp./Humi. :22.7deg_C/57RH
Engineer :Marcus
Measurement Antenna Pol. :Ver. / Hor.



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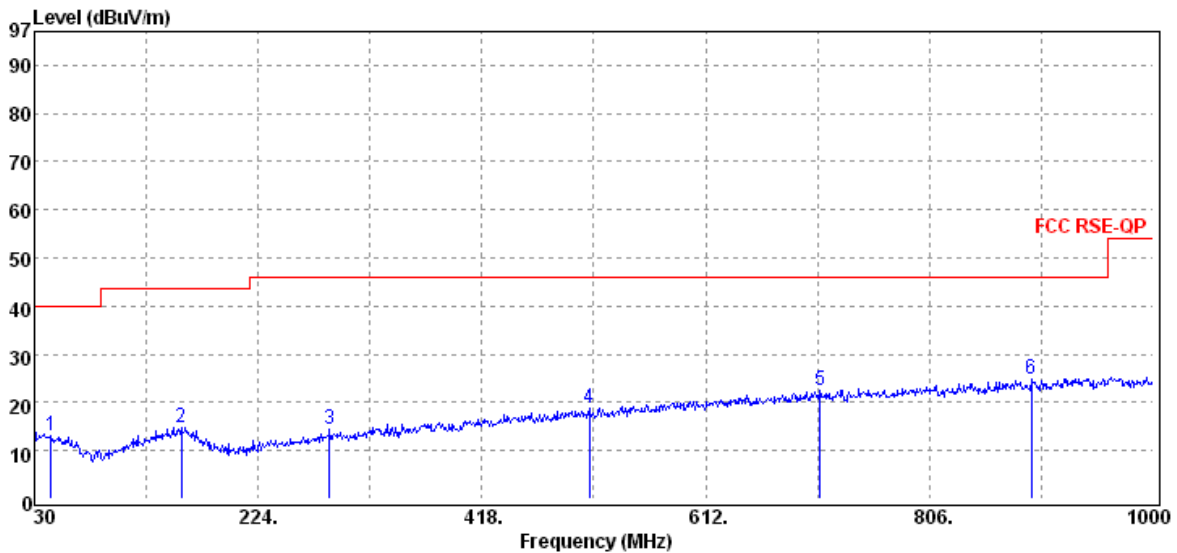
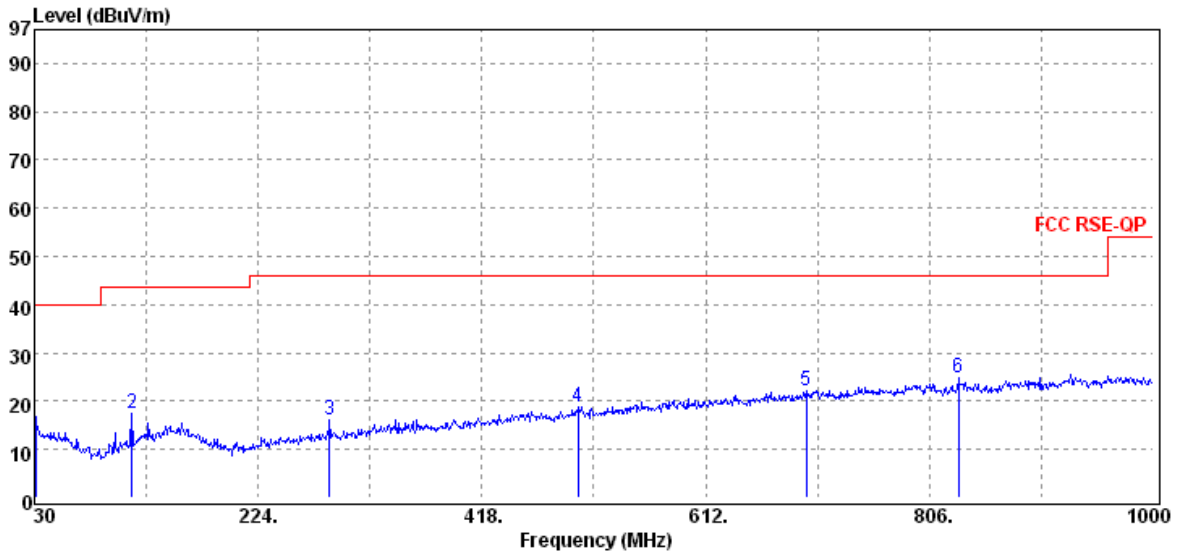
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| | | | |
|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n 40M | Test Date | :2012-11-28 |
| Fundamental Frequency | :5755 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 | Measurement Antenna Pol. | :Ver. / Hor. |



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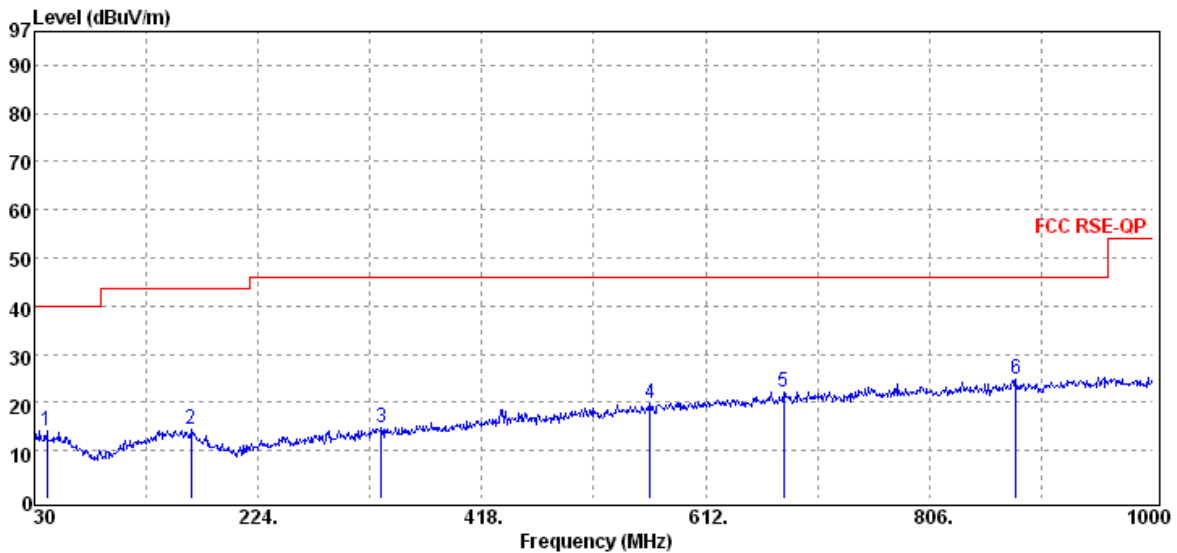
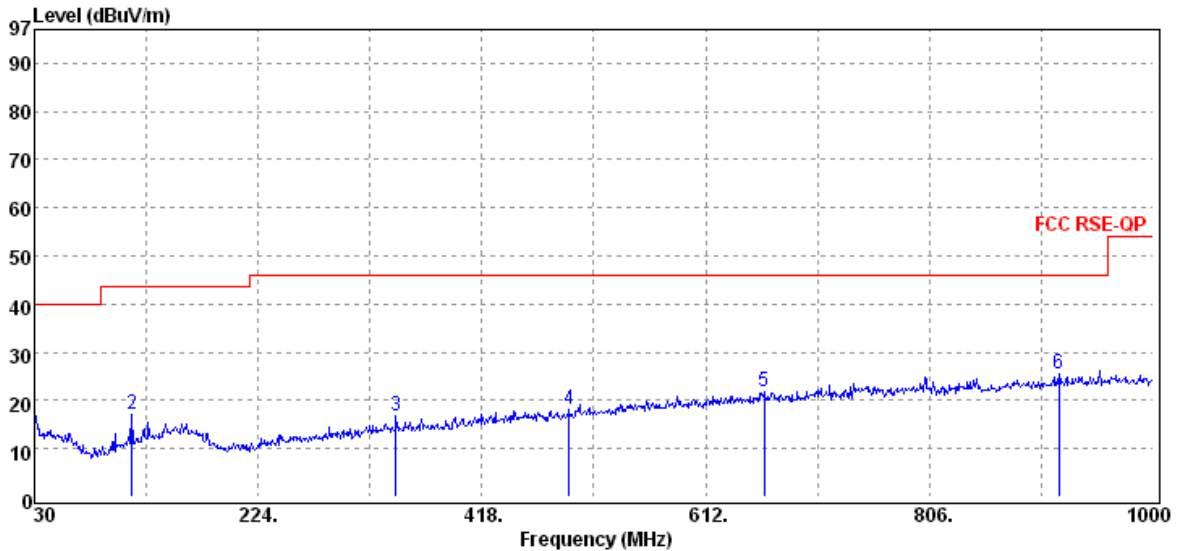
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| | | | |
|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n 40M | Test Date | :2012-11-28 |
| Fundamental Frequency | :5795 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 | Measurement Antenna Pol. | :Ver. / Hor. |



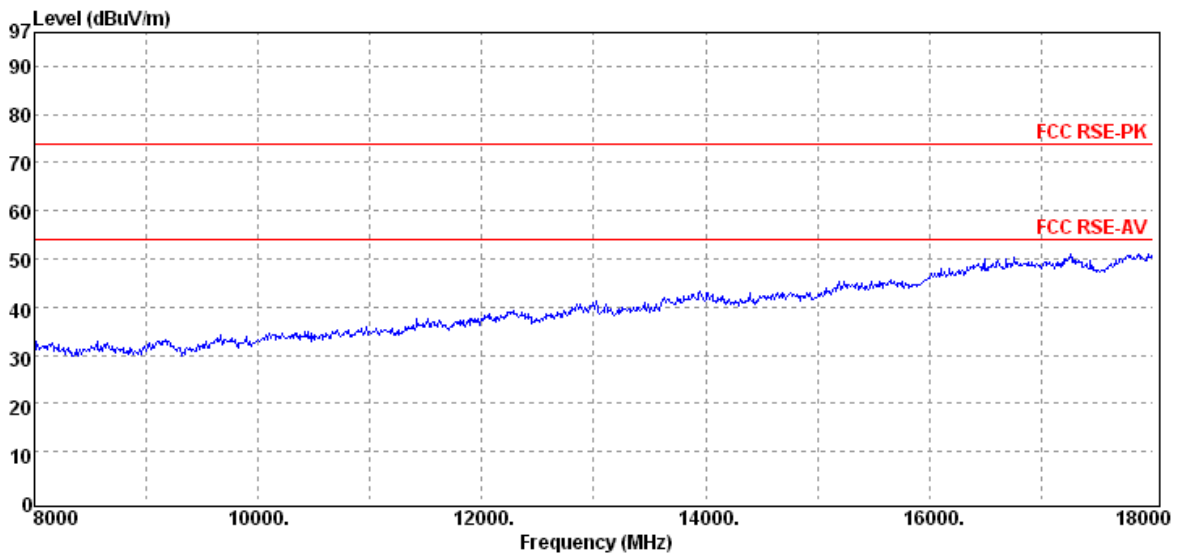
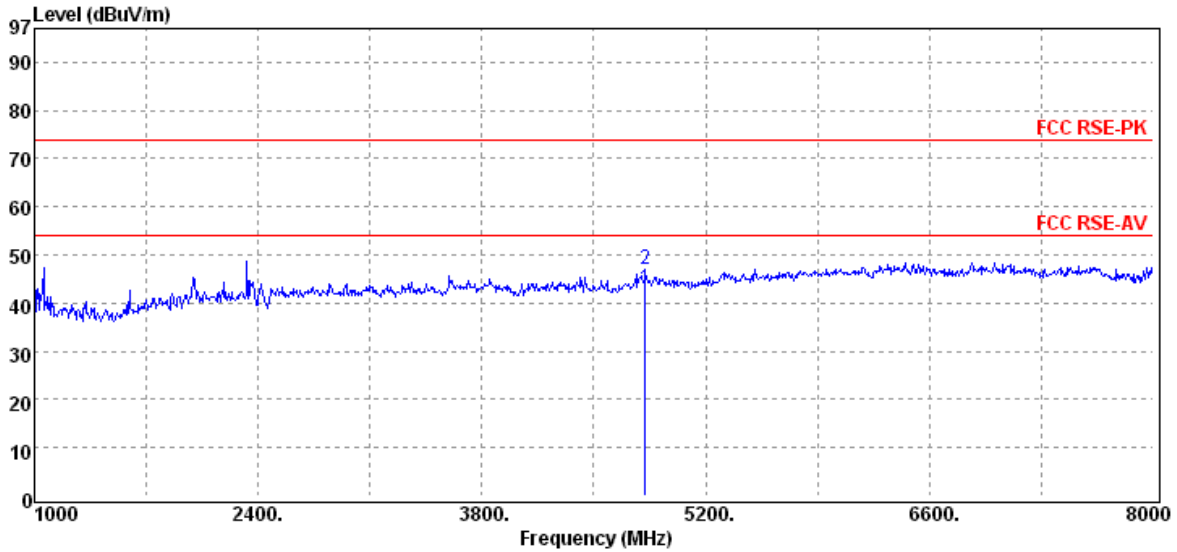
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Radiated Spurious Emission Measurement photos Result (above 1GHz)

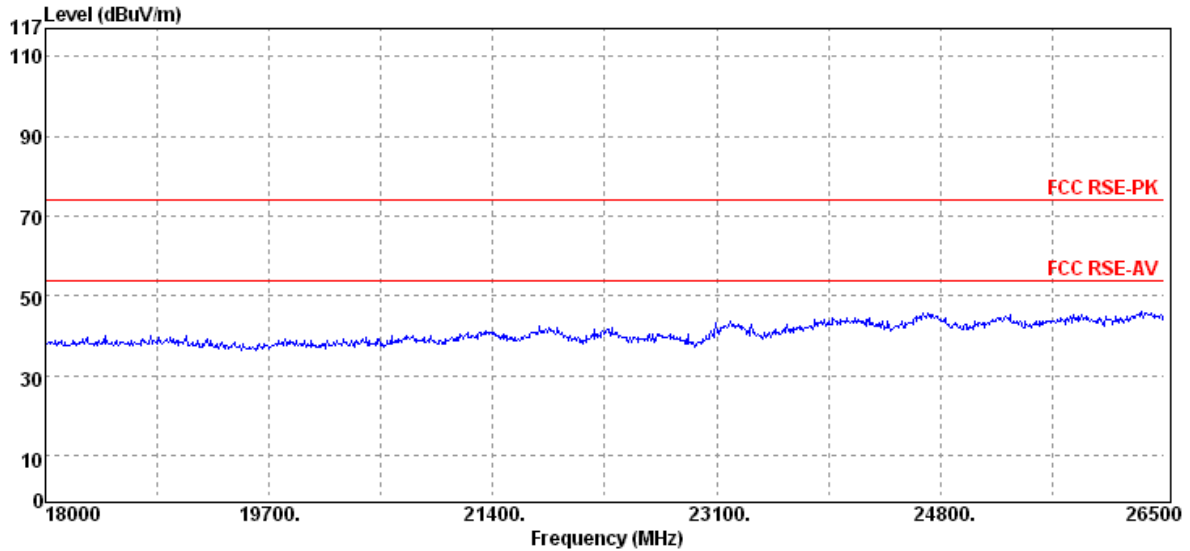
| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11b | Test Date | :2012-11-28 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |



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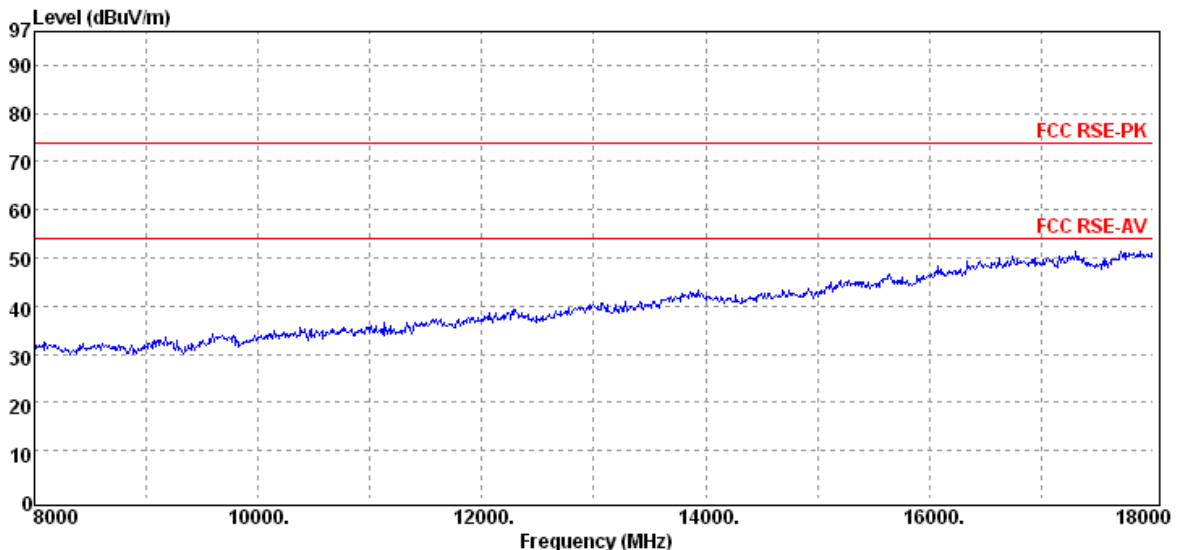
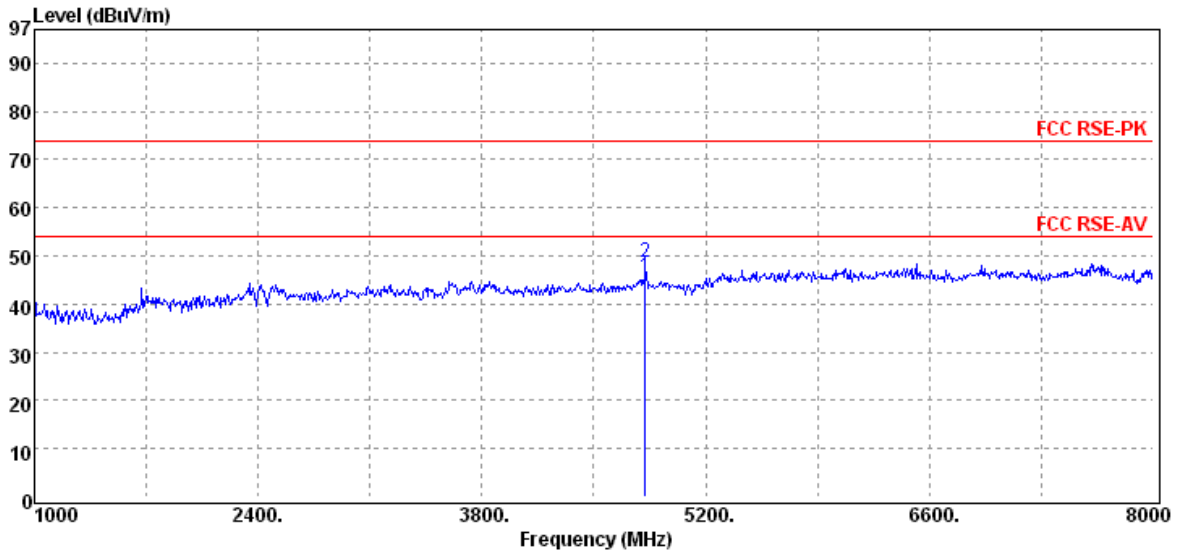
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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11b | Test Date | :2012-11-28 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :HORIZONTAL |



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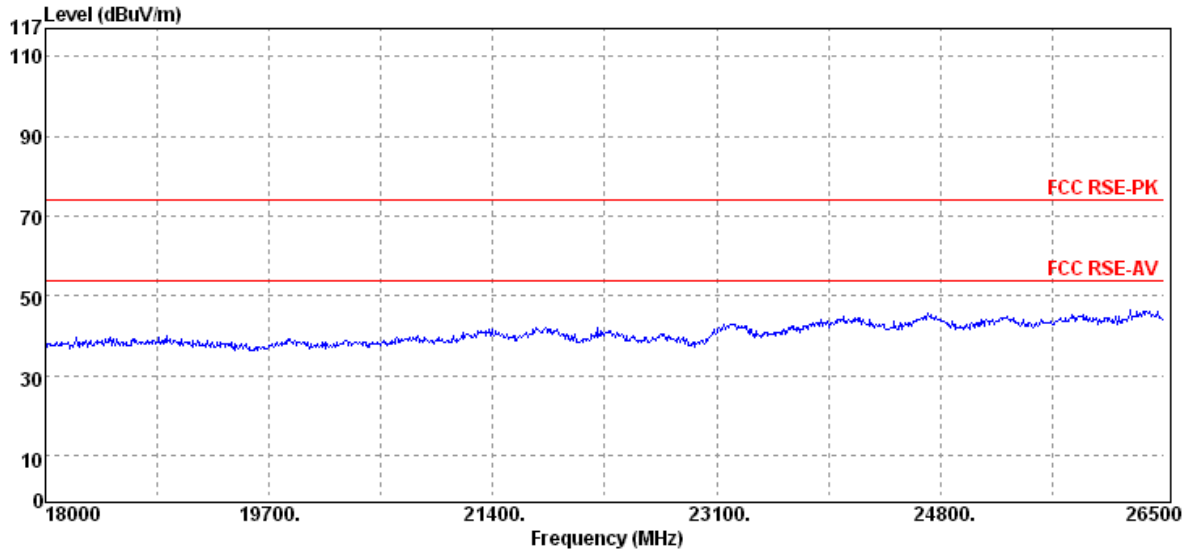
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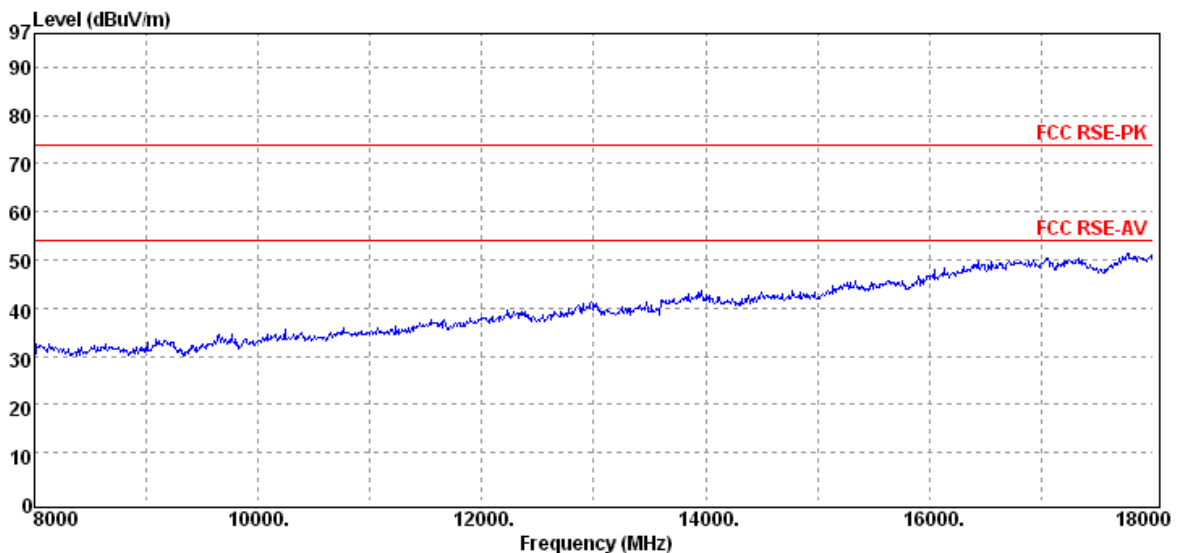
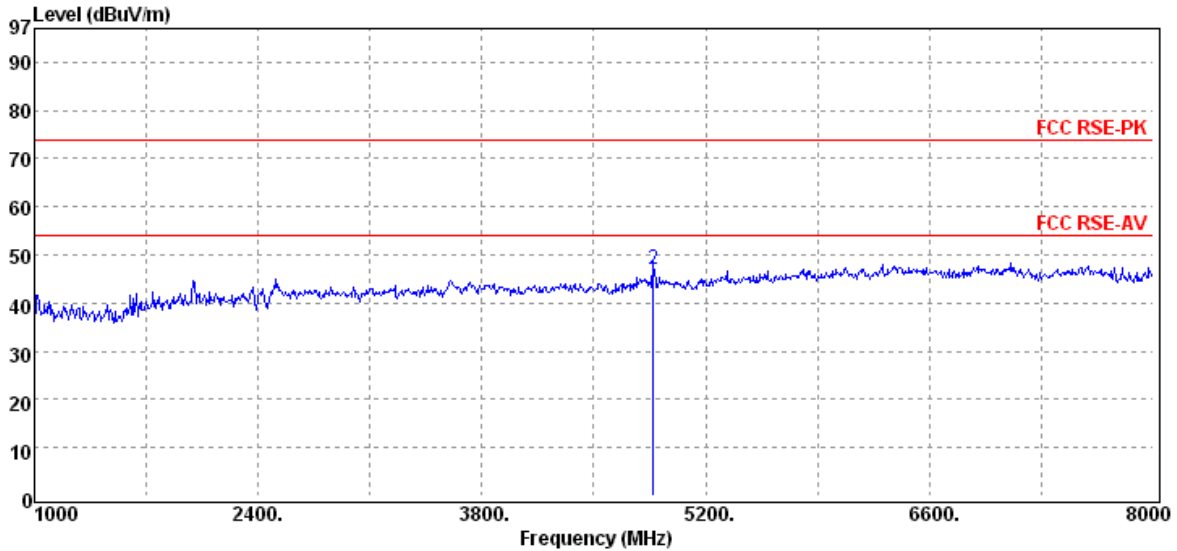
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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11b | Test Date | :2012-11-28 |
| Fundamental Frequency | :2437 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |



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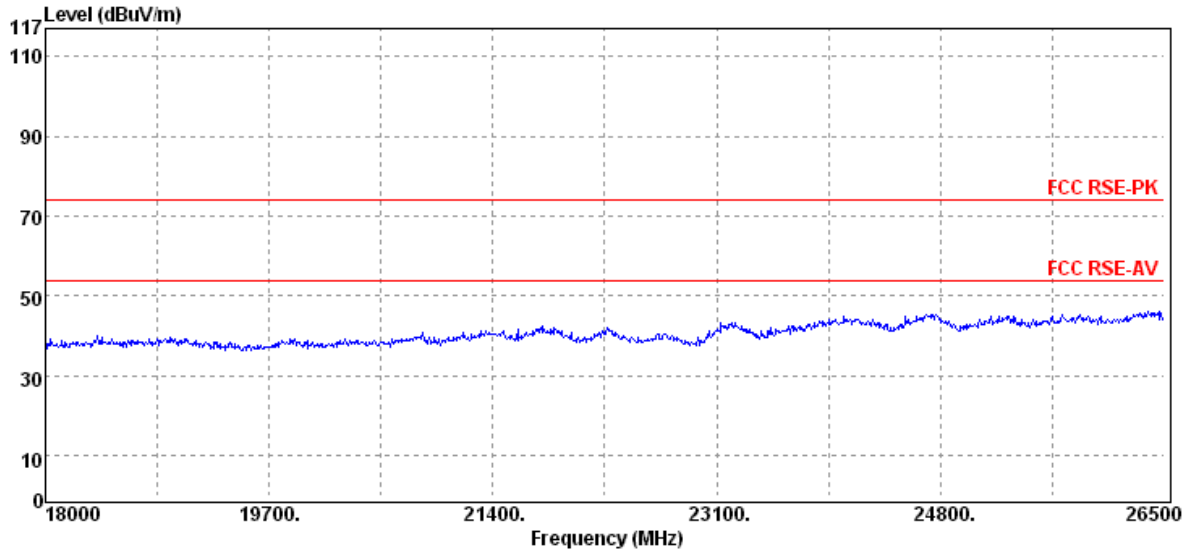
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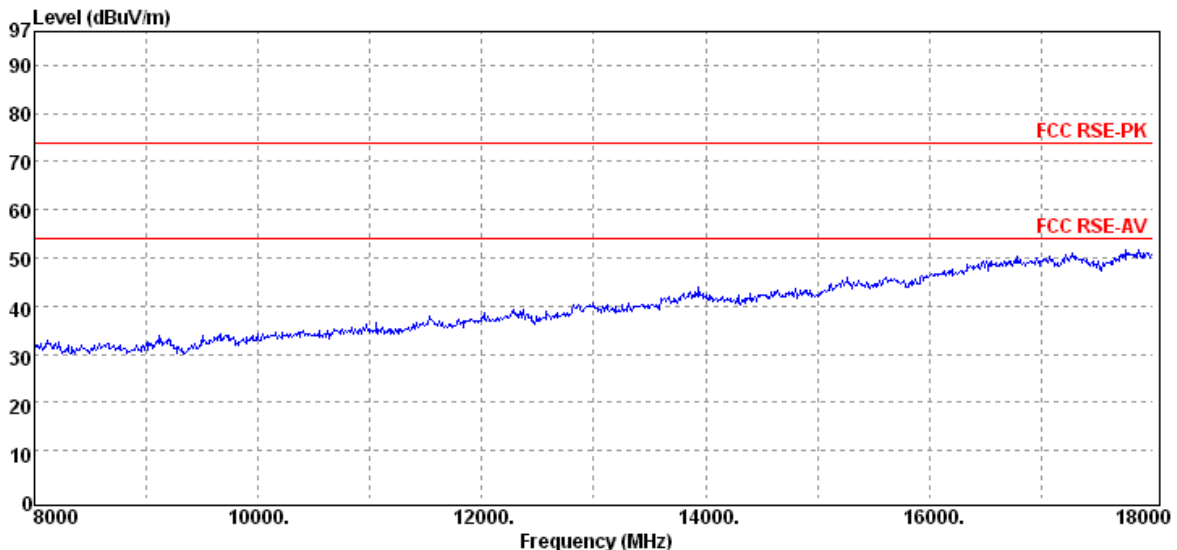
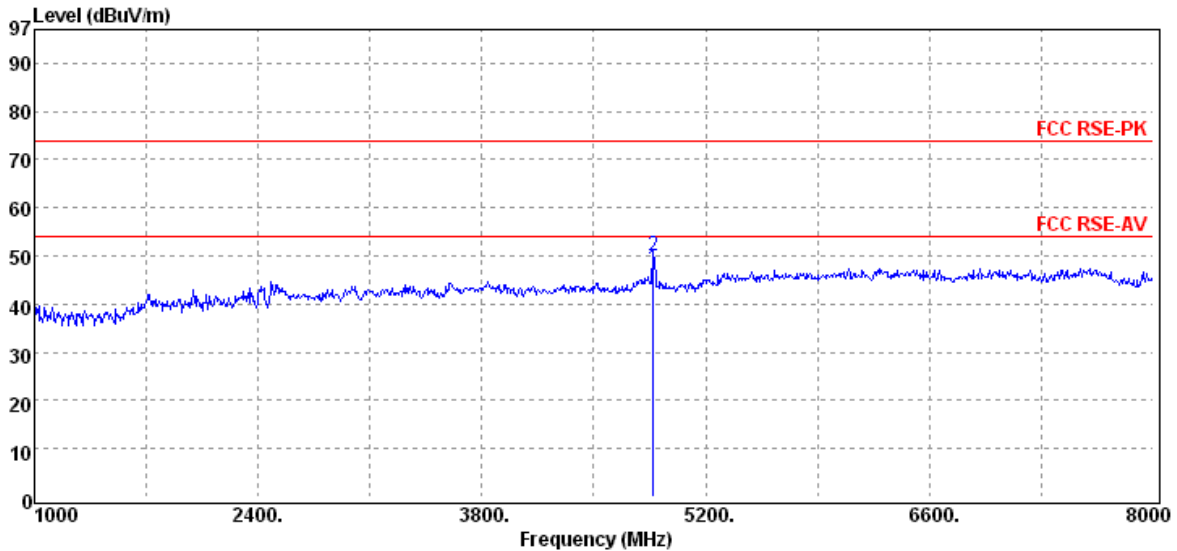
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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11b | Test Date | :2012-11-28 |
| Fundamental Frequency | :2437 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :HORIZONTAL |



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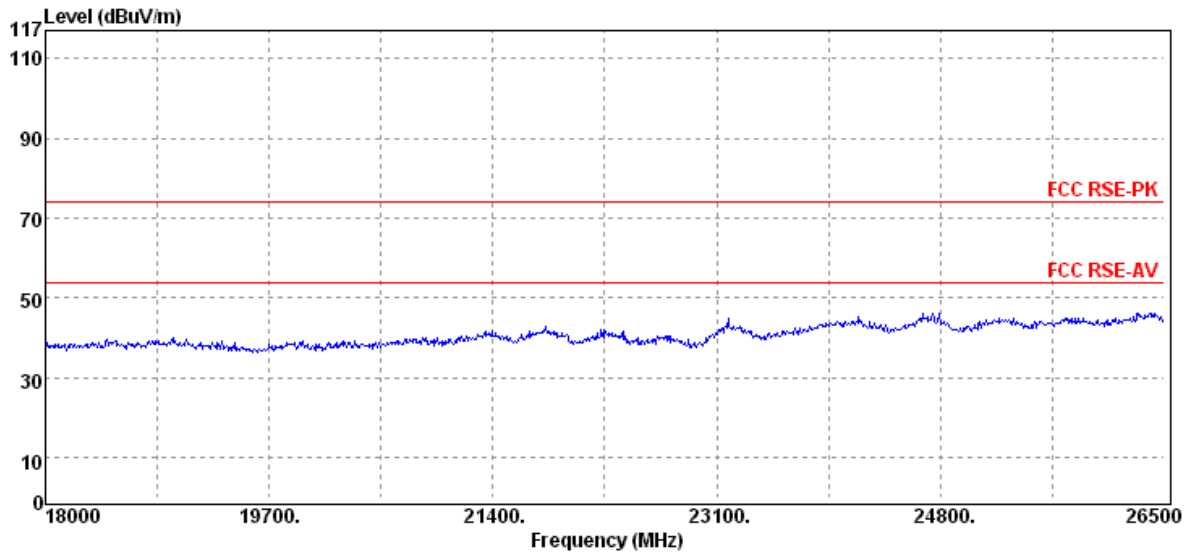
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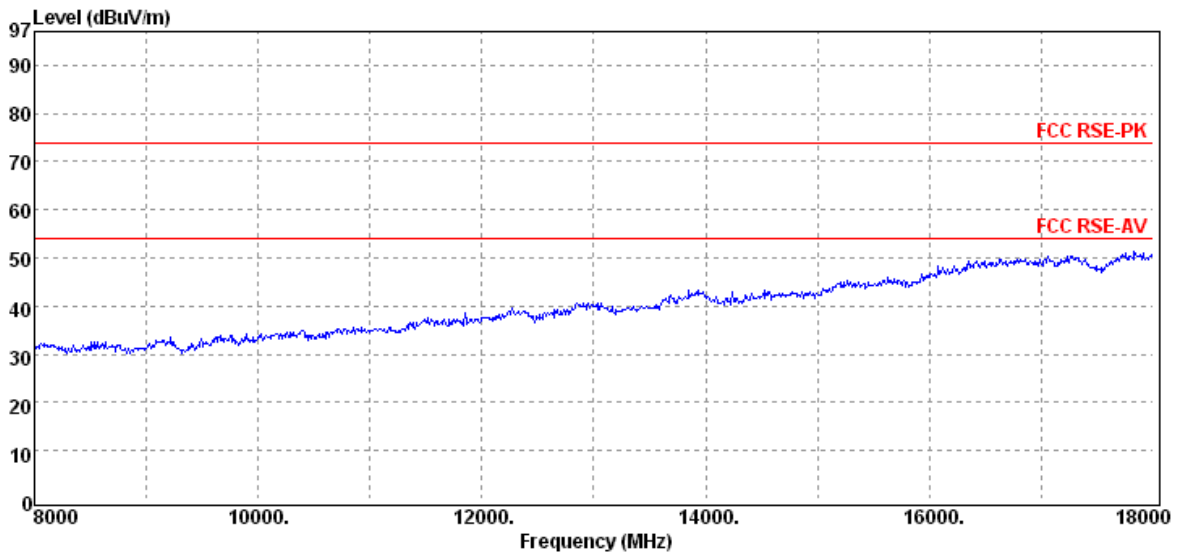
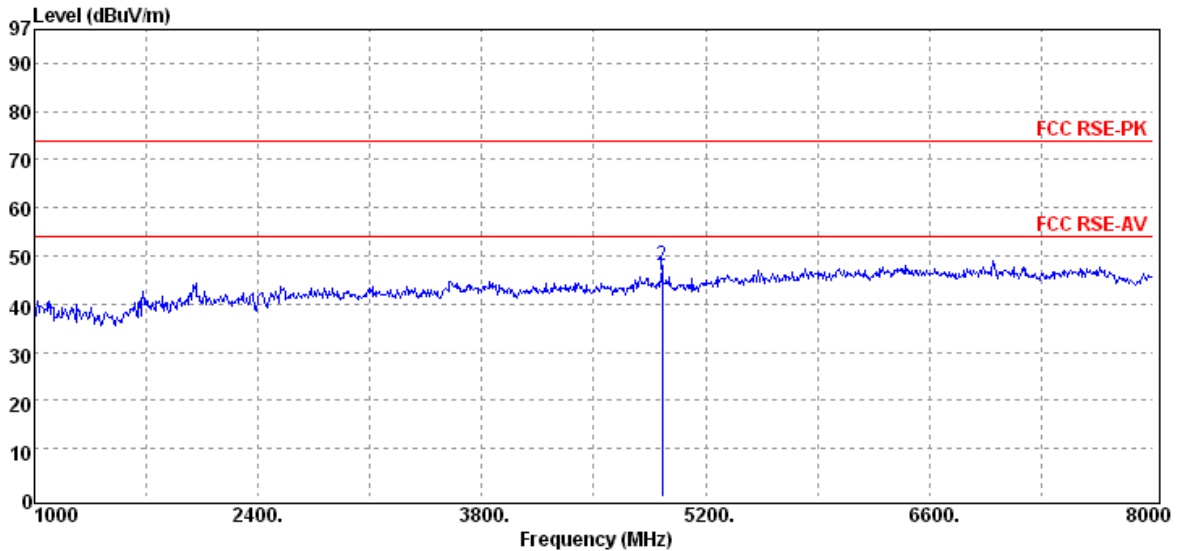
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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11b | Test Date | :2012-11-28 |
| Fundamental Frequency | :2462 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |



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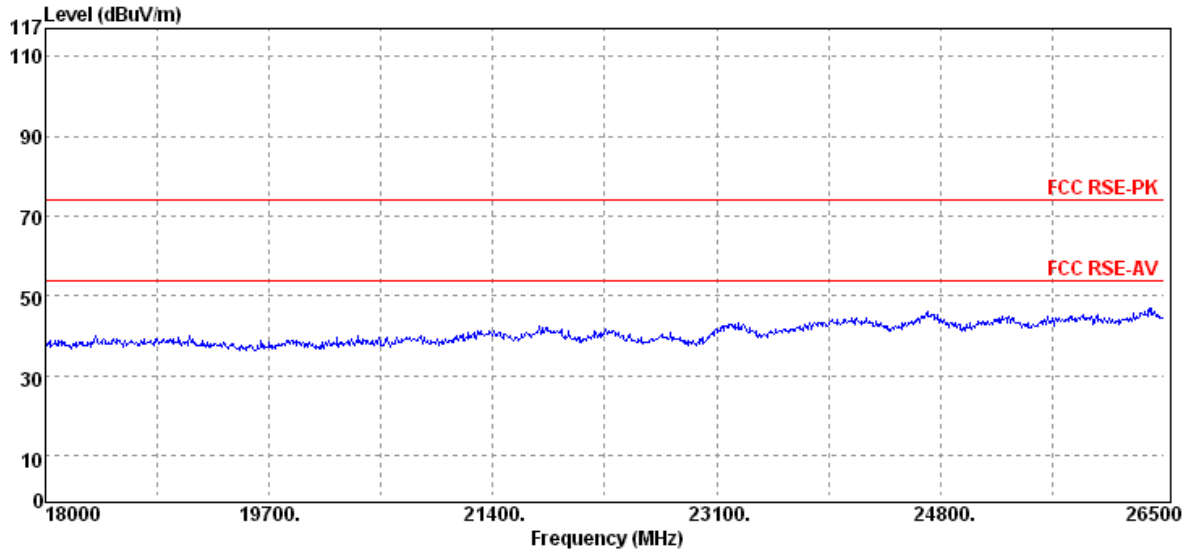
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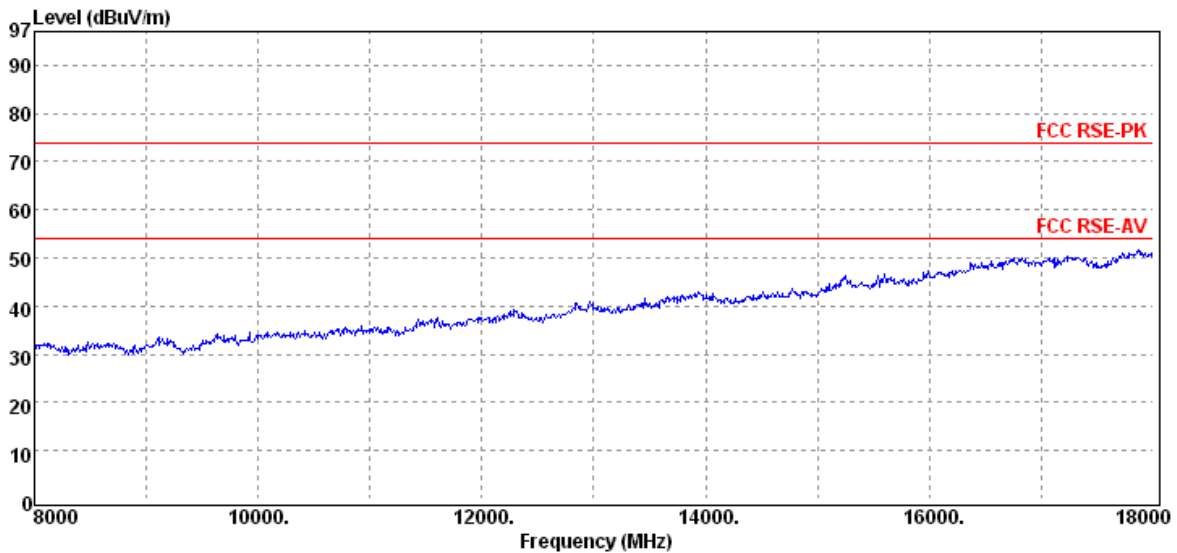
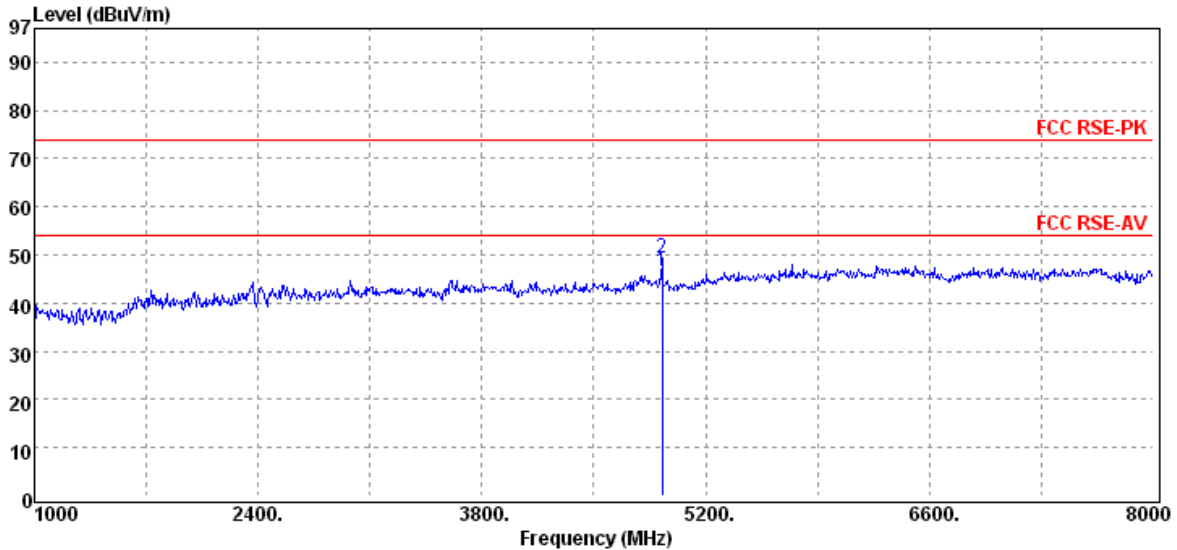
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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11b | Test Date | :2012-11-28 |
| Fundamental Frequency | :2462 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :HORIZONTAL |



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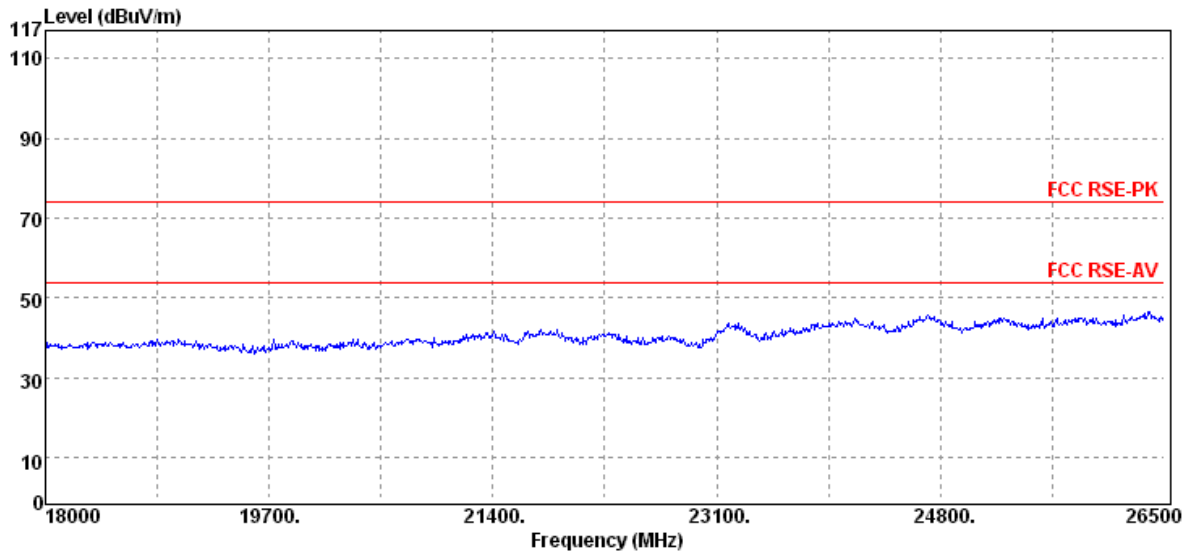
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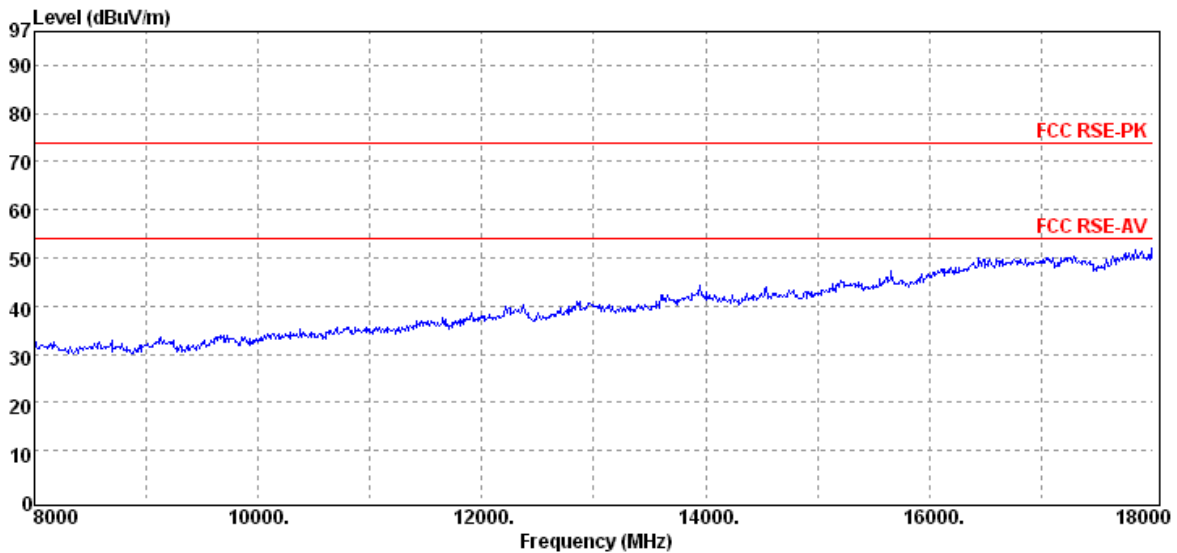
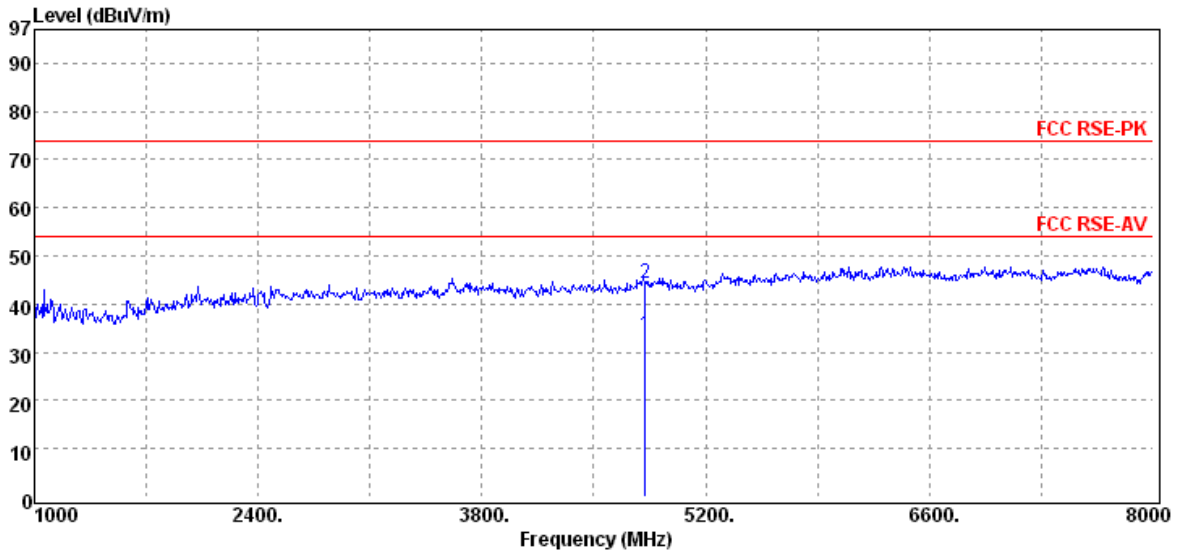
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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11g | Test Date | :2012-11-28 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |



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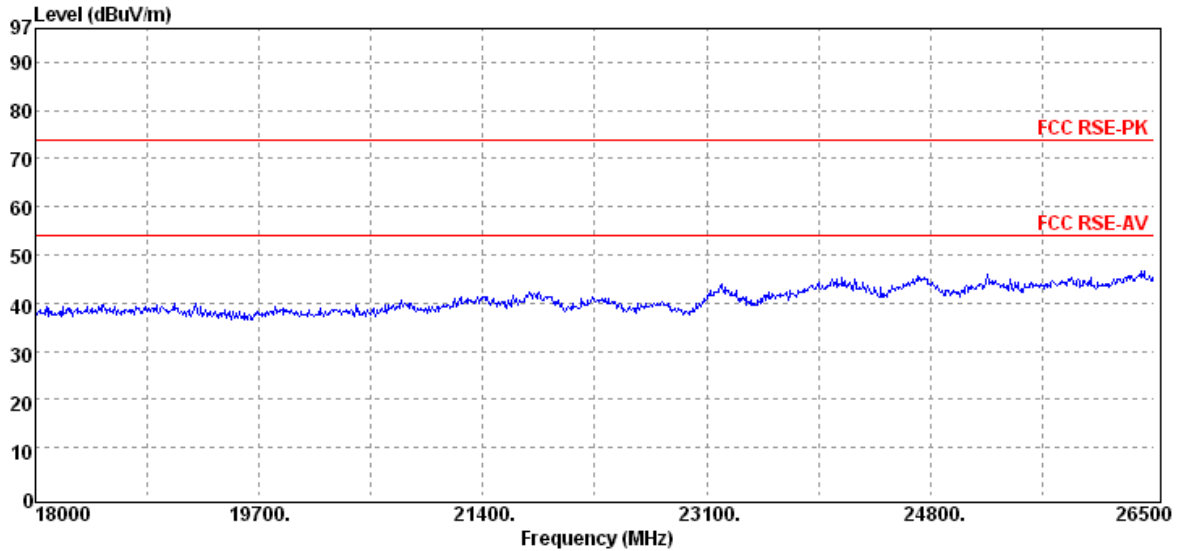
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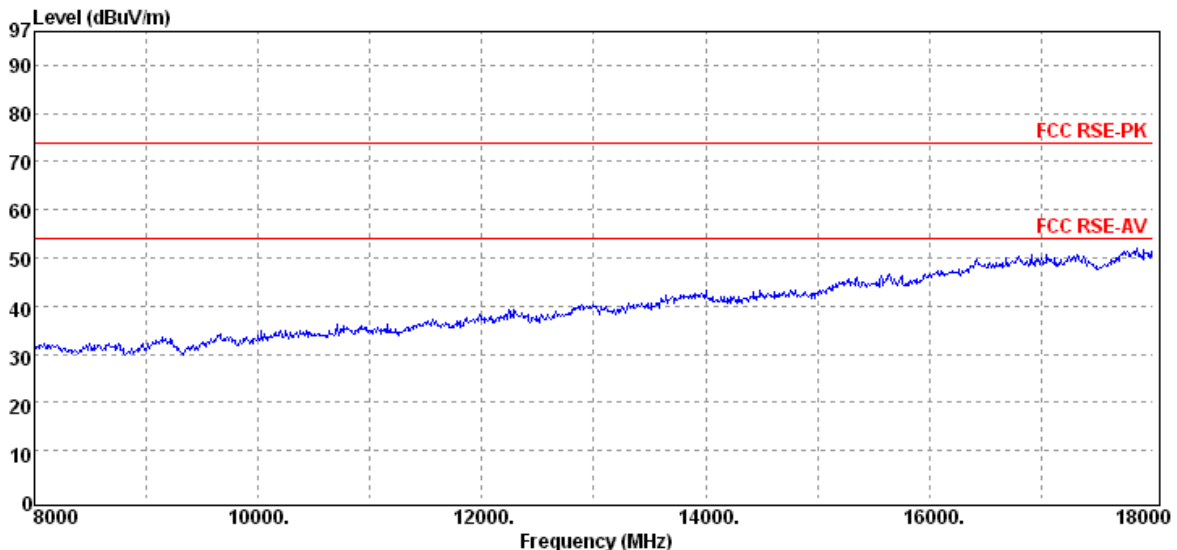
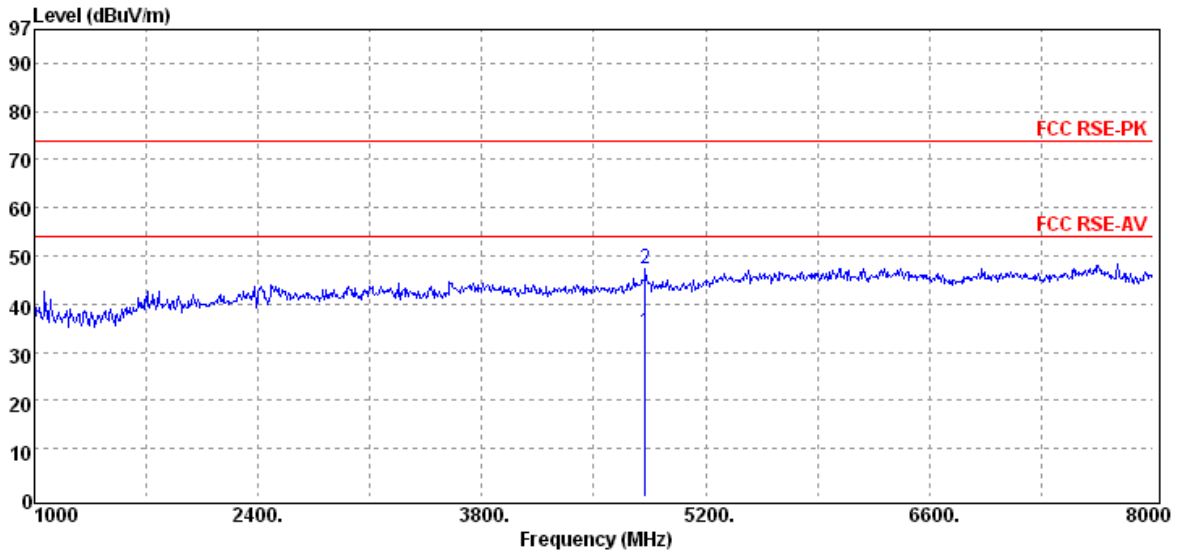
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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11g | Test Date | :2012-11-28 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :HORIZONTAL |



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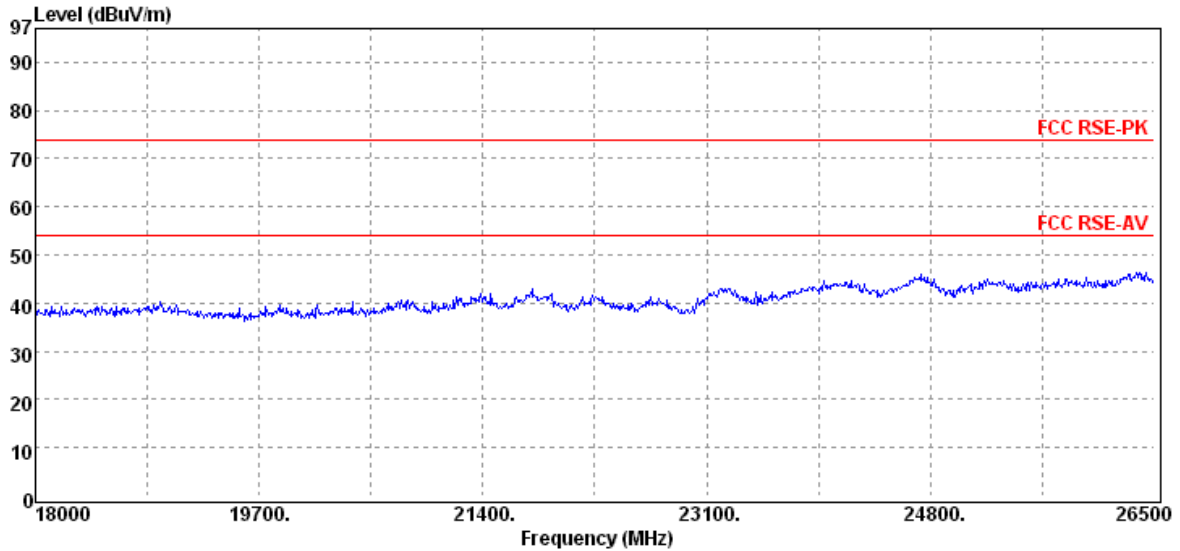
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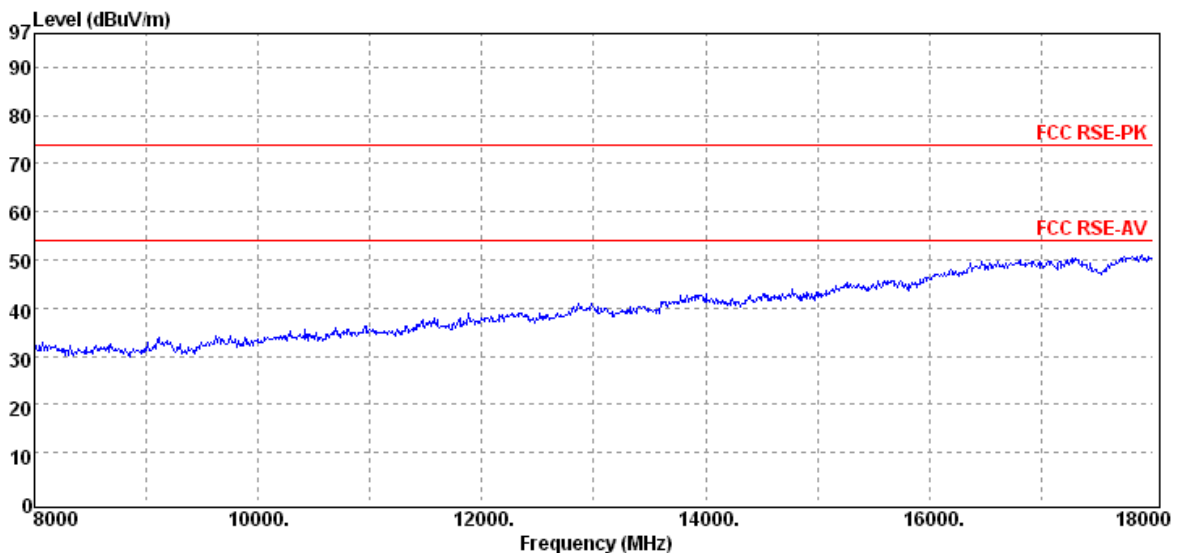
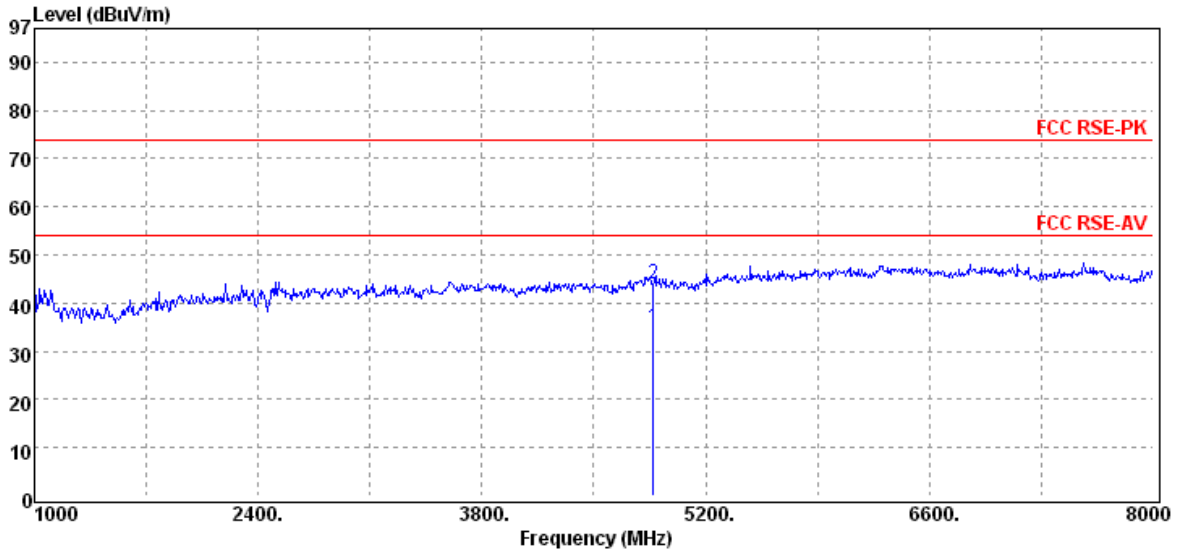
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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11g | Test Date | :2012-11-28 |
| Fundamental Frequency | :2437 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |



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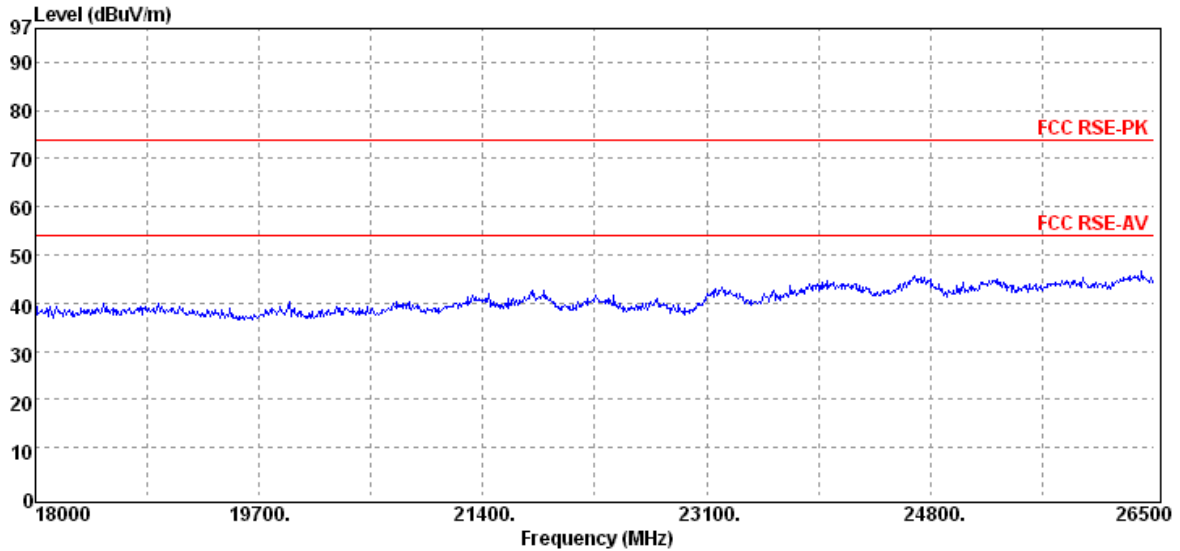
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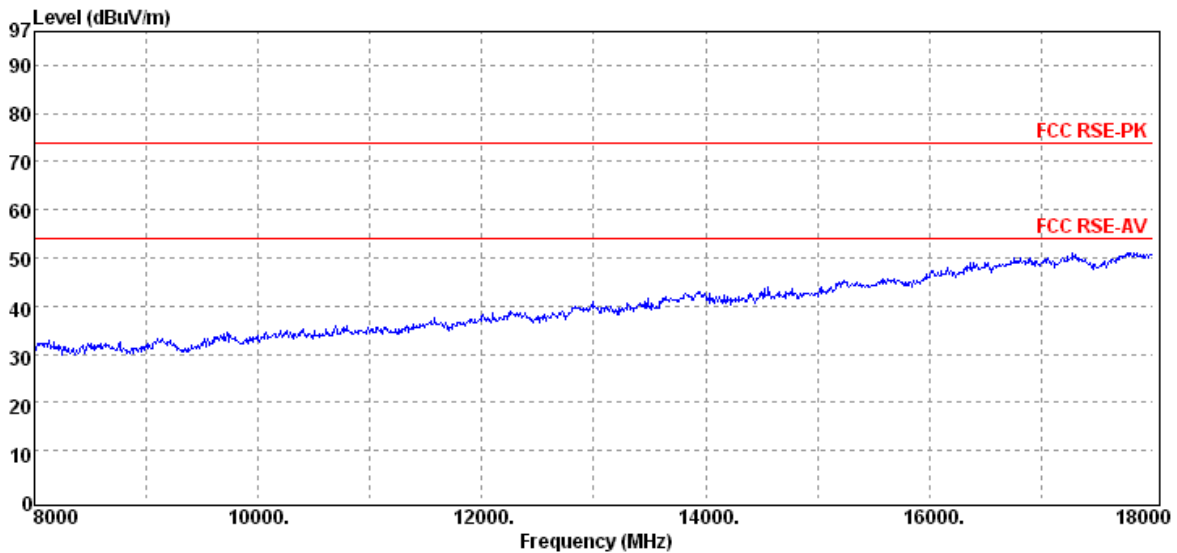
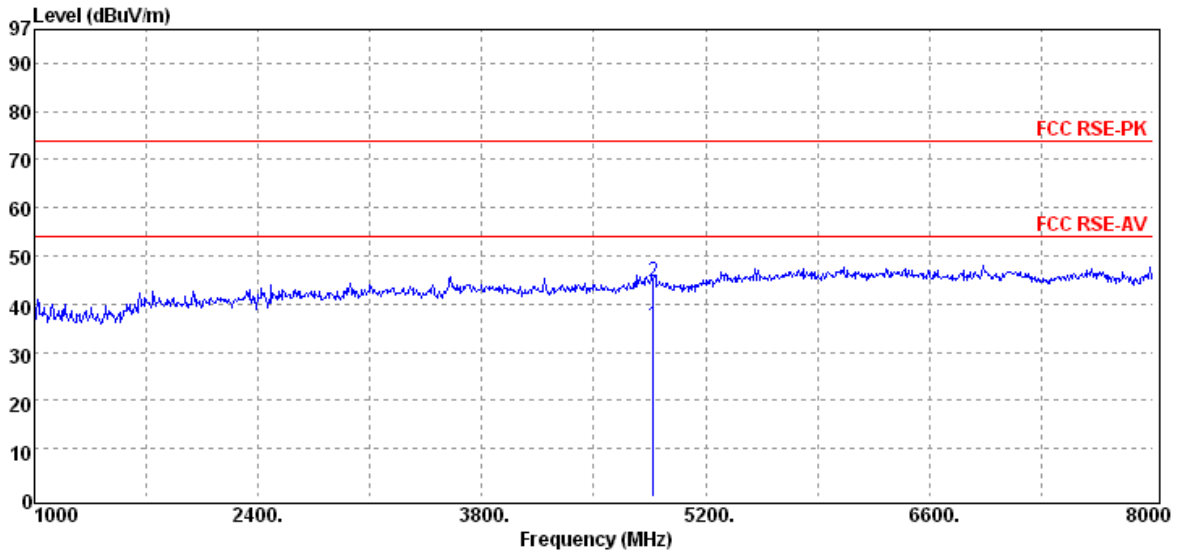
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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11g | Test Date | :2012-11-28 |
| Fundamental Frequency | :2437 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :HORIZONTAL |



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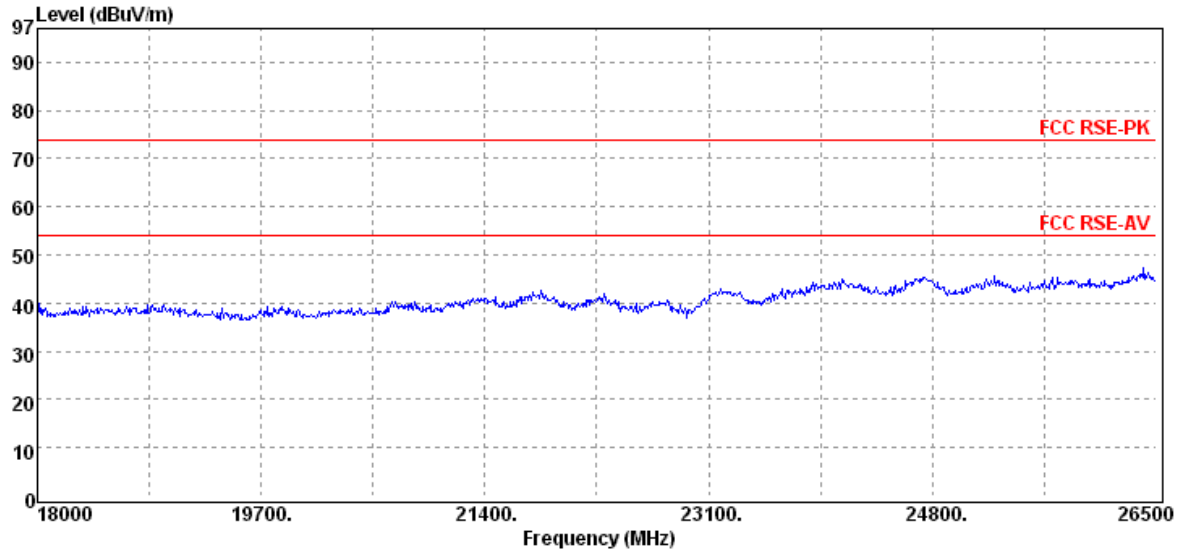
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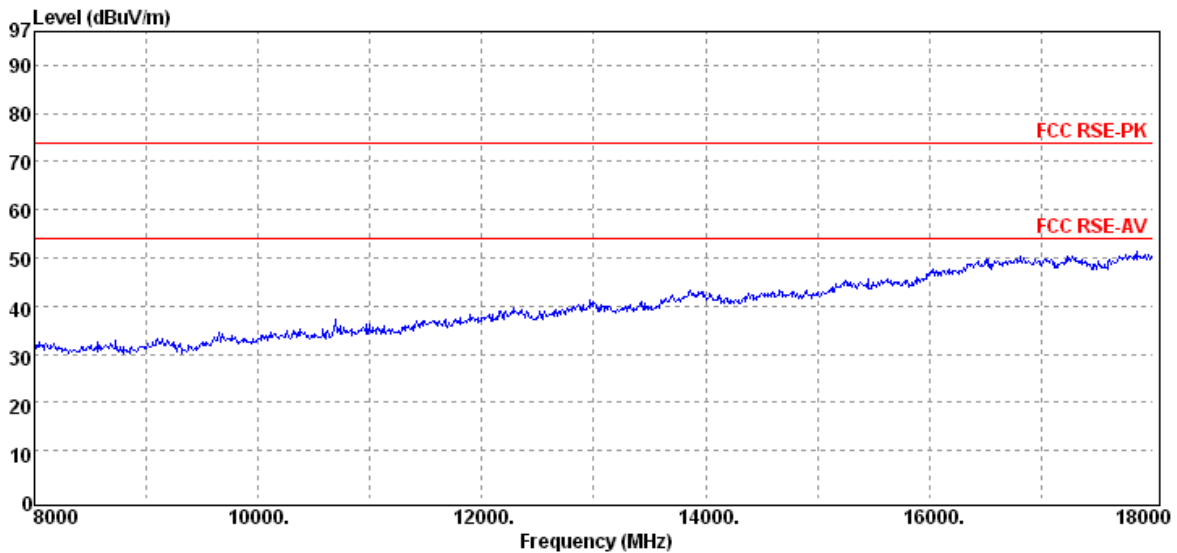
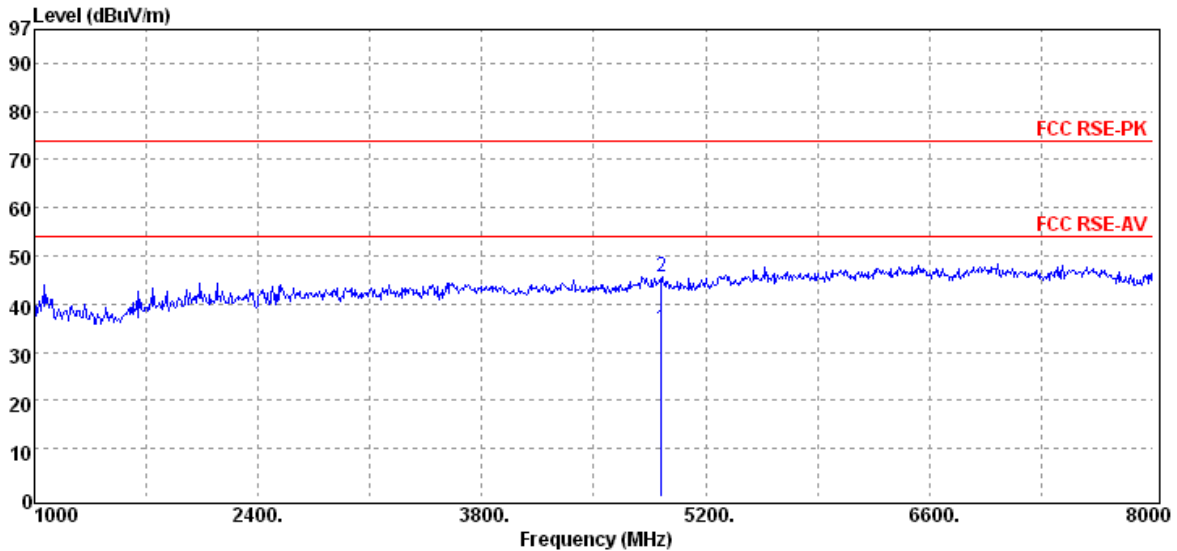
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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11g | Test Date | :2012-11-28 |
| Fundamental Frequency | :2462 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |



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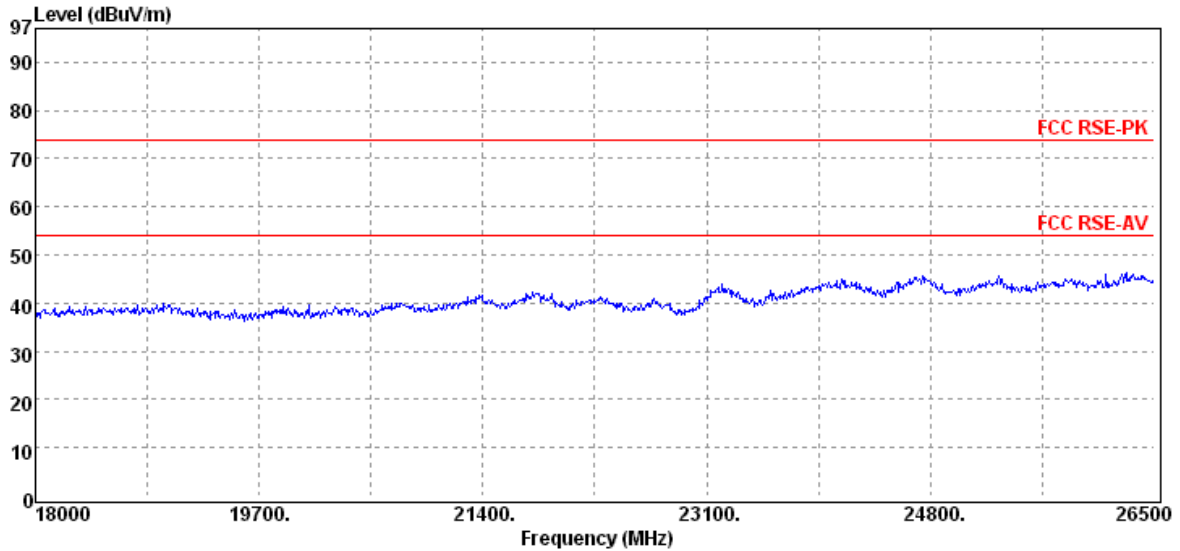
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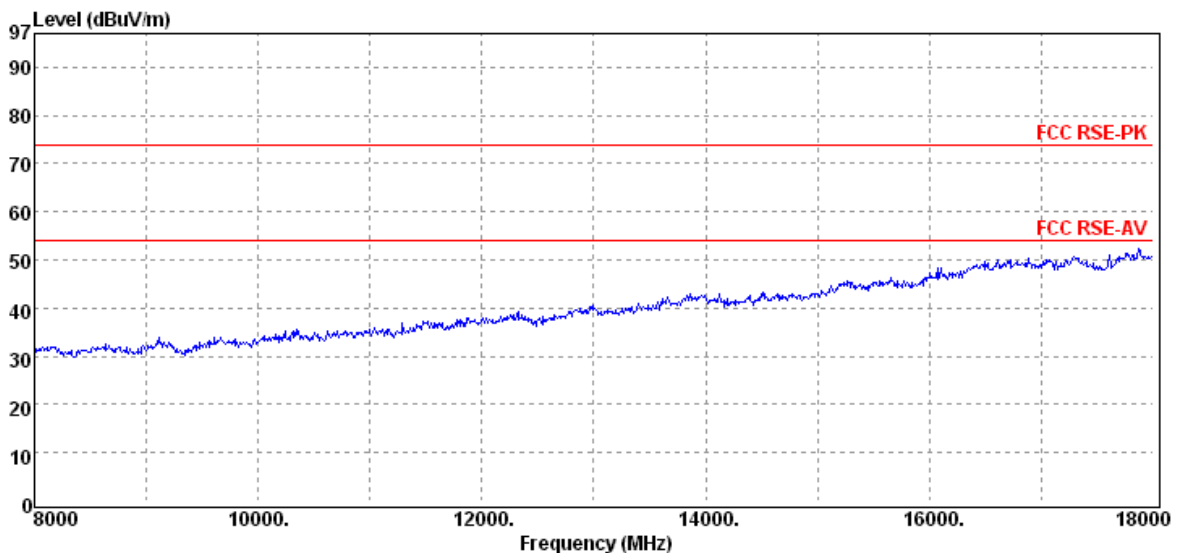
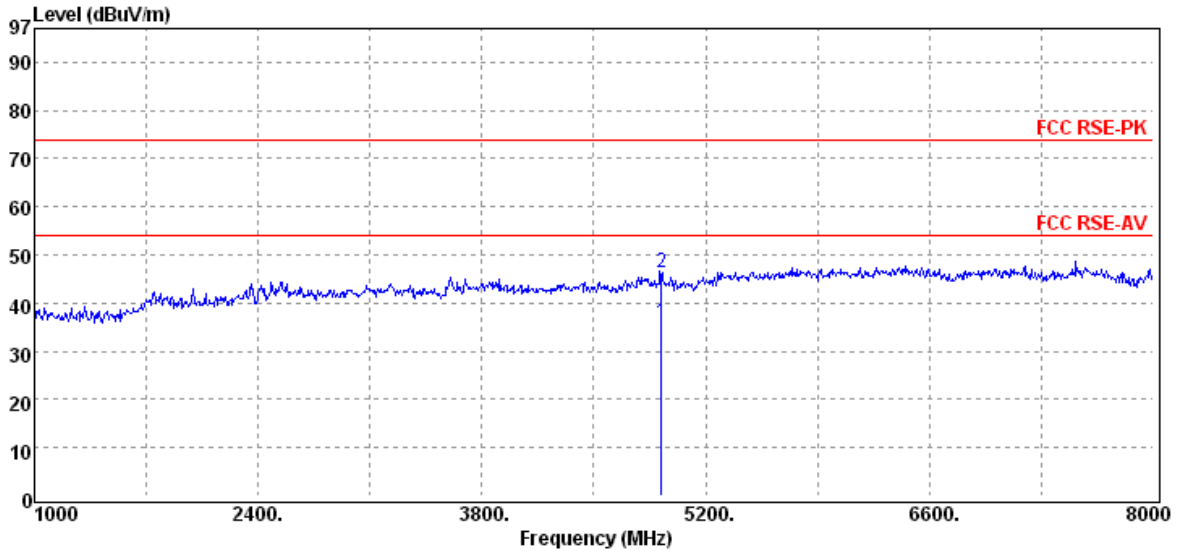
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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11g | Test Date | :2012-11-28 |
| Fundamental Frequency | :2462 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :HORIZONTAL |



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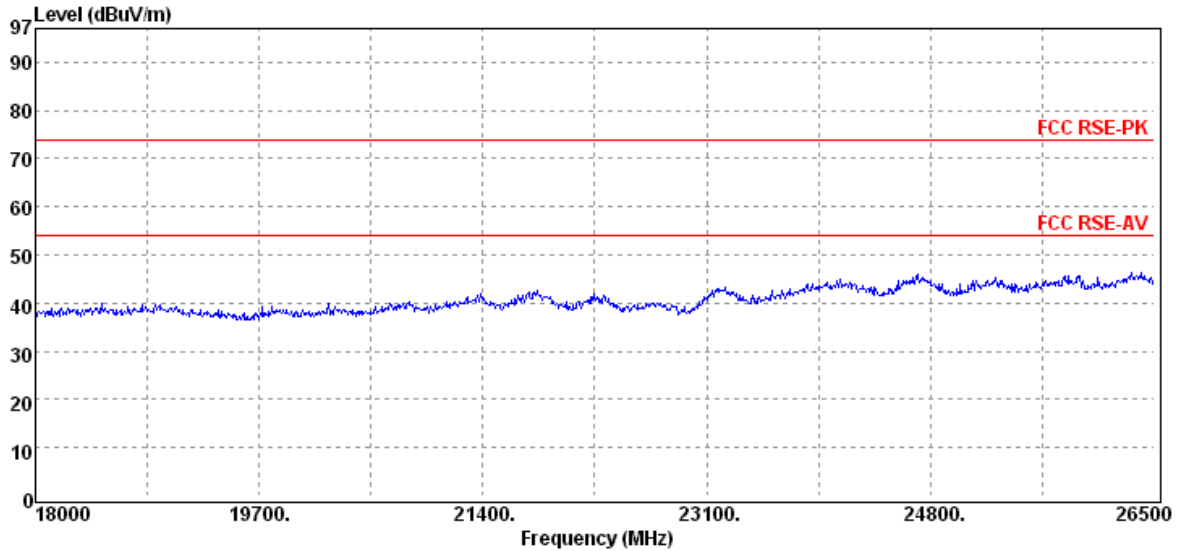
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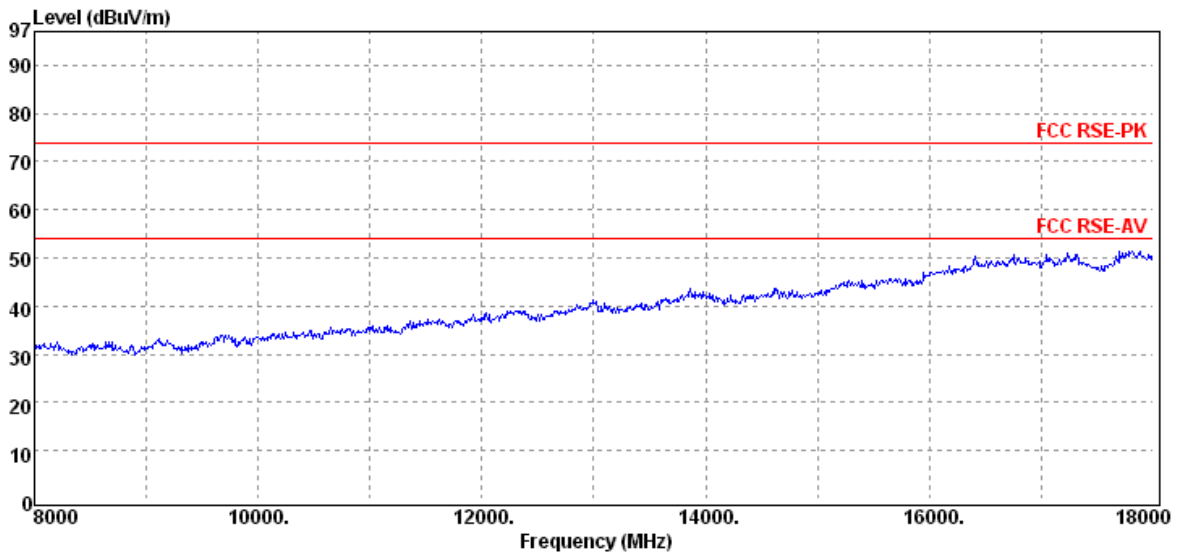
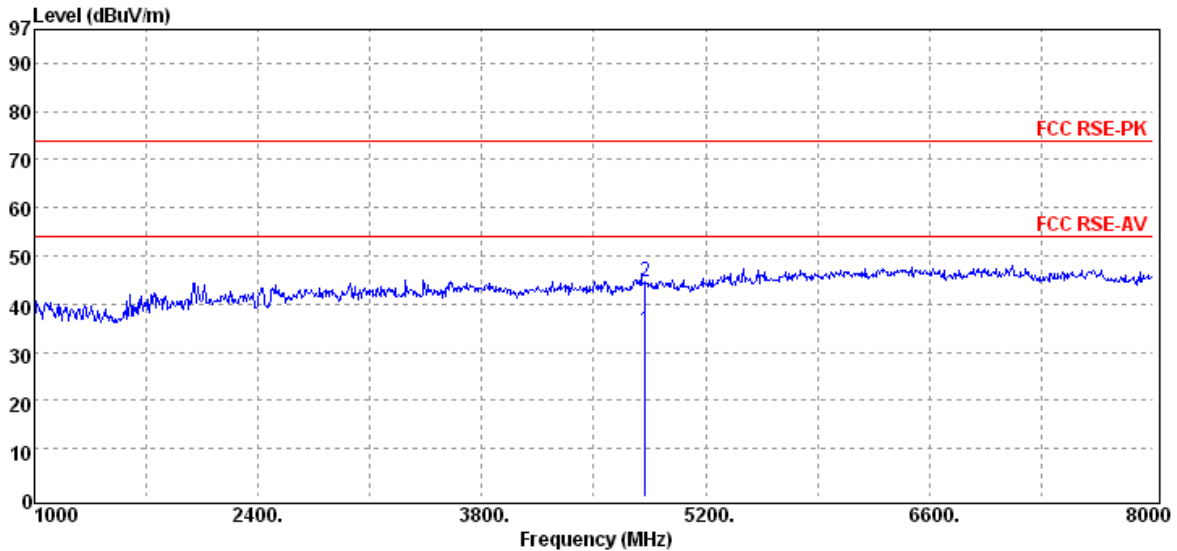
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| | | | |
|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n 20M | Test Date | :2012-11-28 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |



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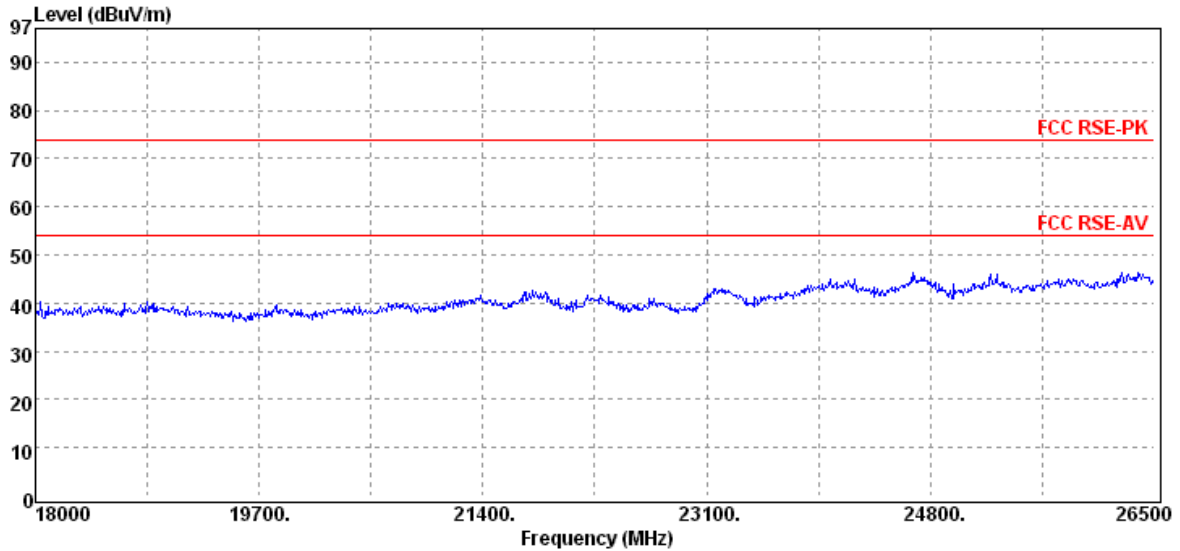
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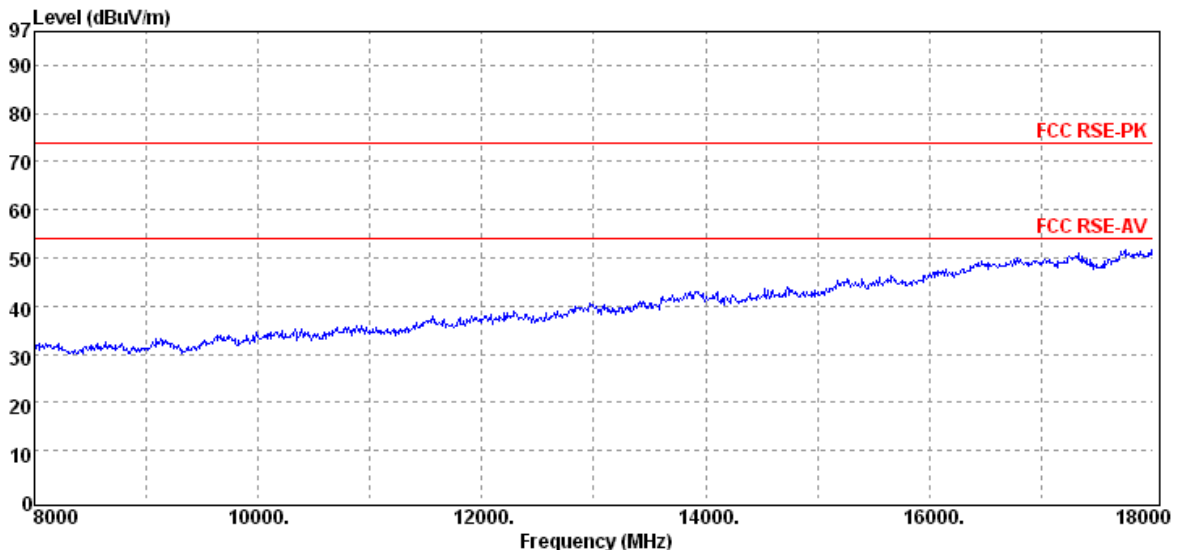
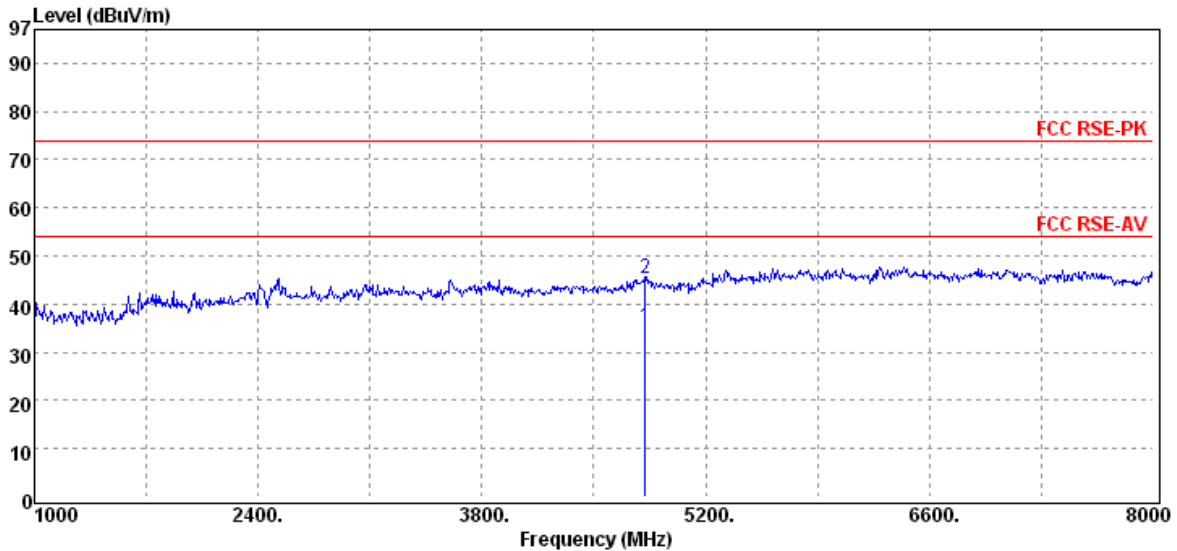
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| | | | |
|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n 20M | Test Date | :2012-11-28 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :HORIZONTAL |



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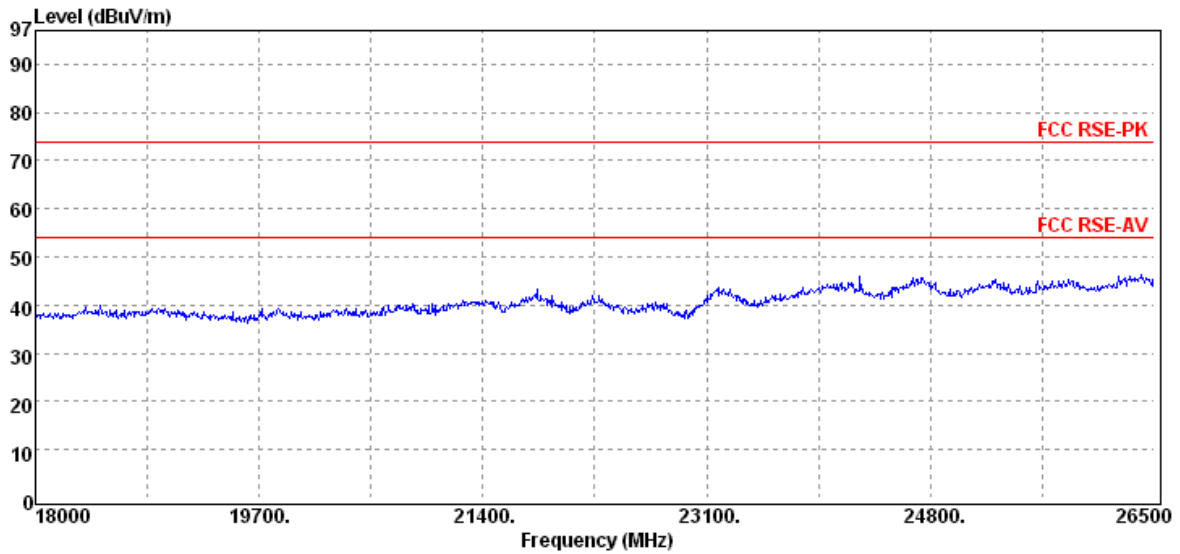
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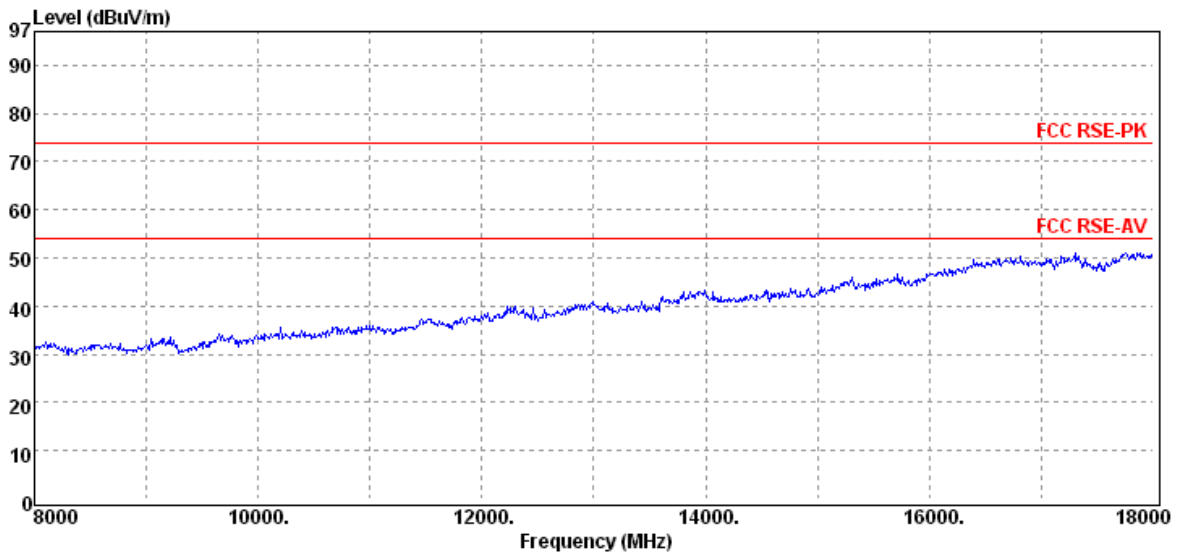
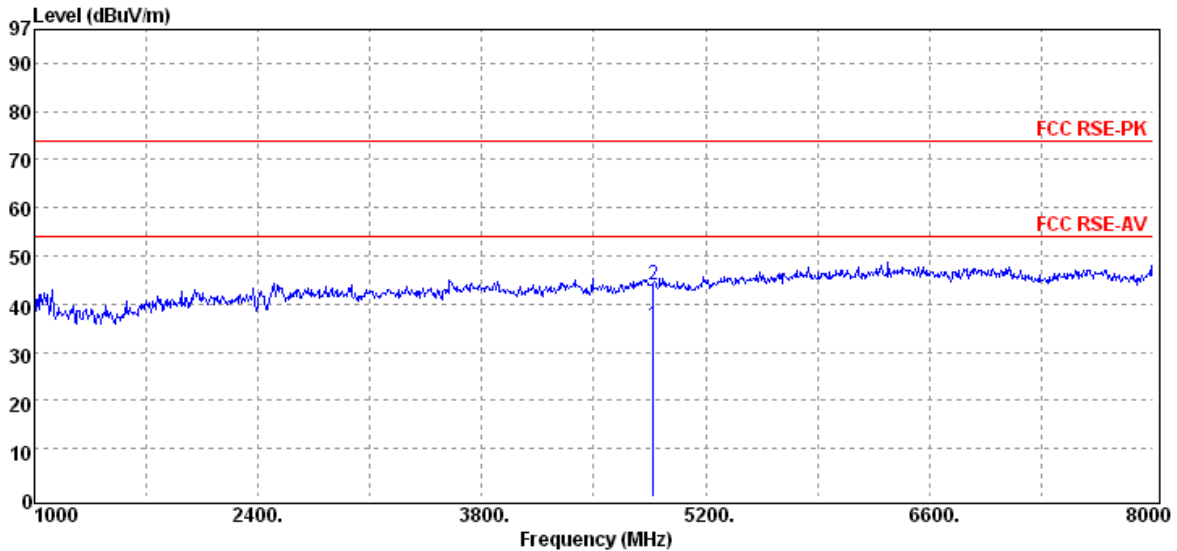
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| | | | |
|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n 20M | Test Date | :2012-11-28 |
| Fundamental Frequency | :2437 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |



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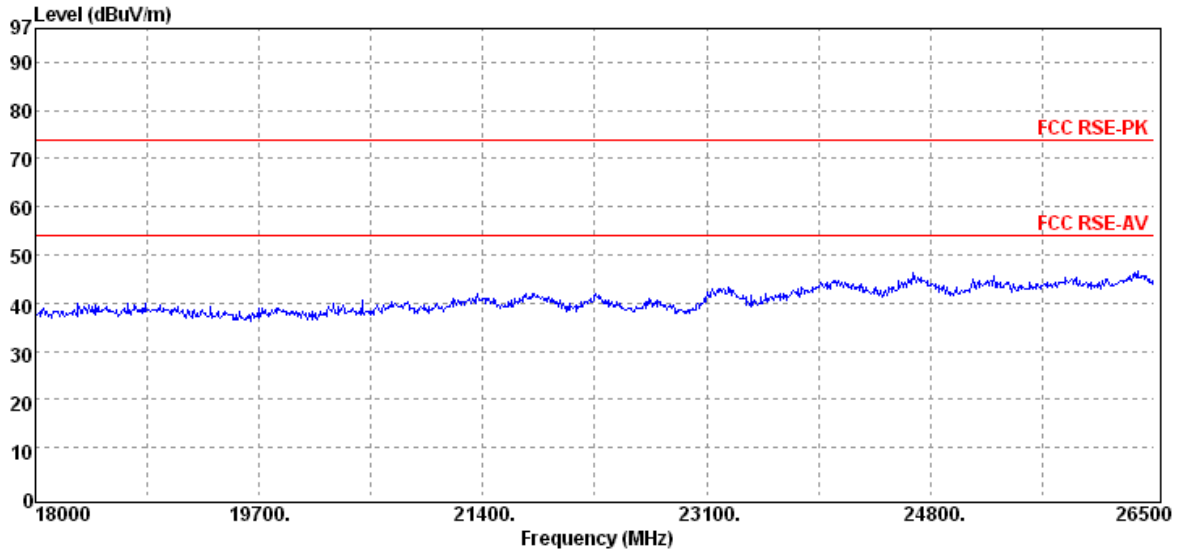
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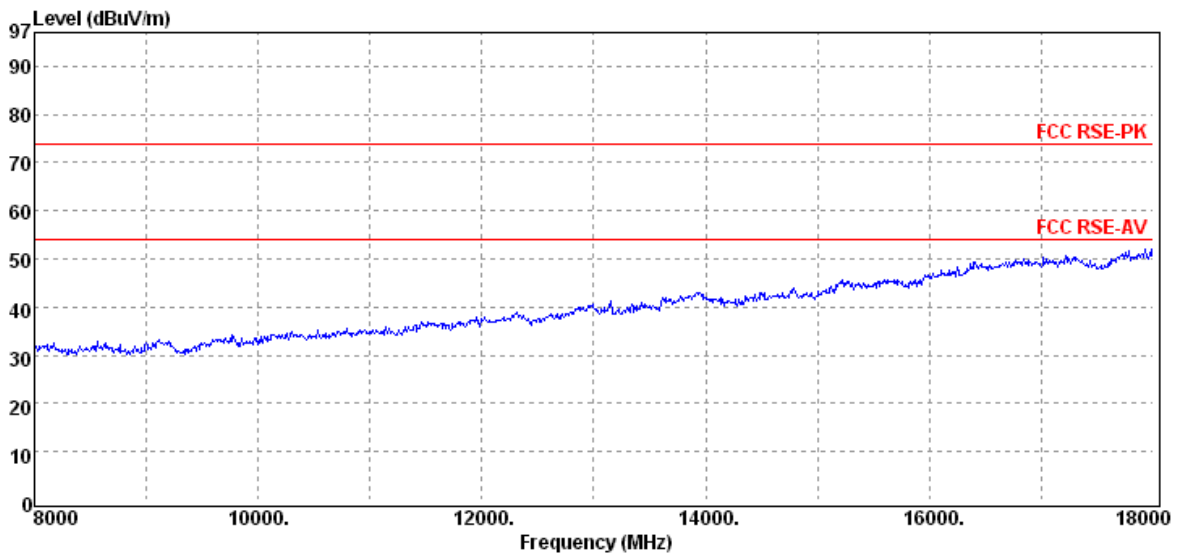
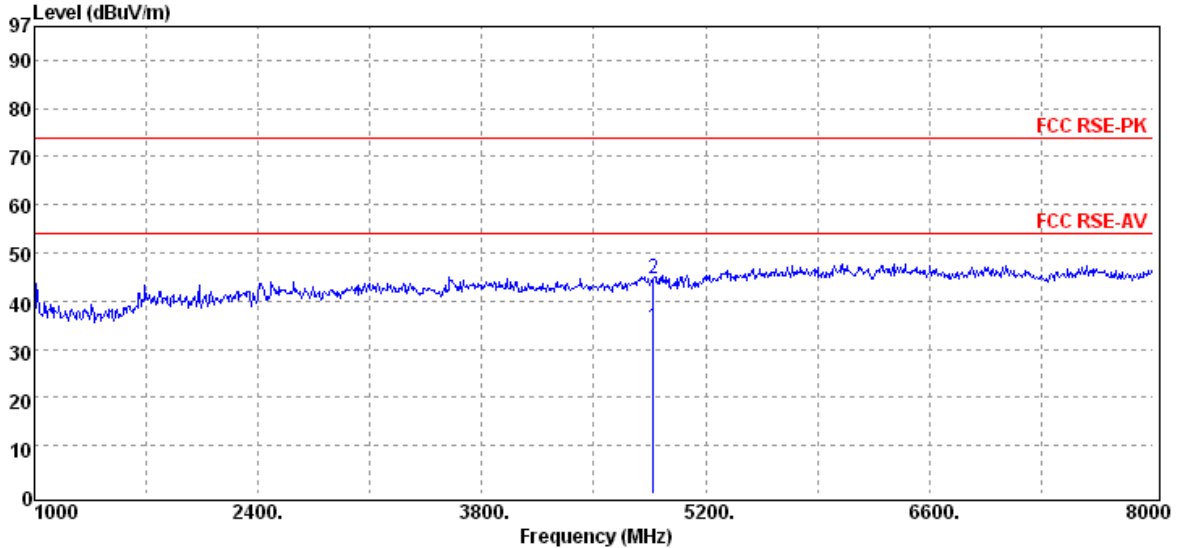
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| | | | |
|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n 20M | Test Date | :2012-11-28 |
| Fundamental Frequency | :2437 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :HORIZONTAL |



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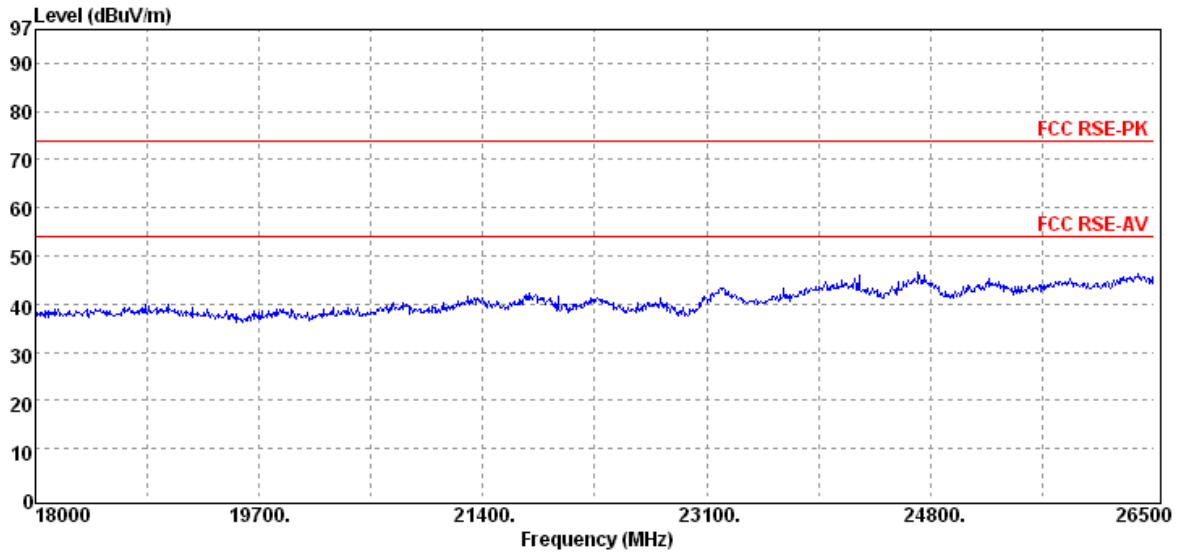
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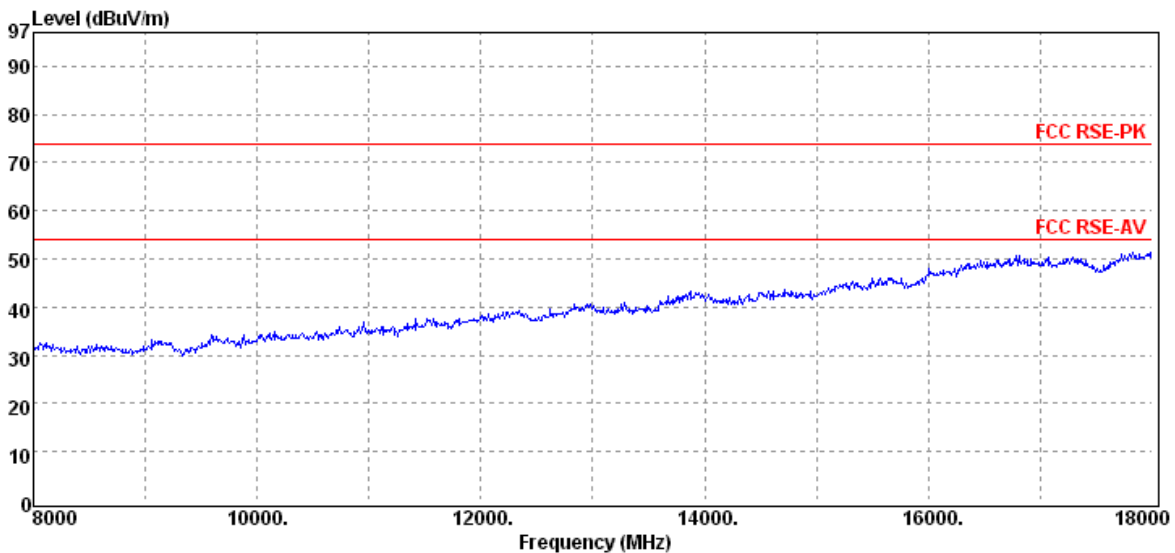
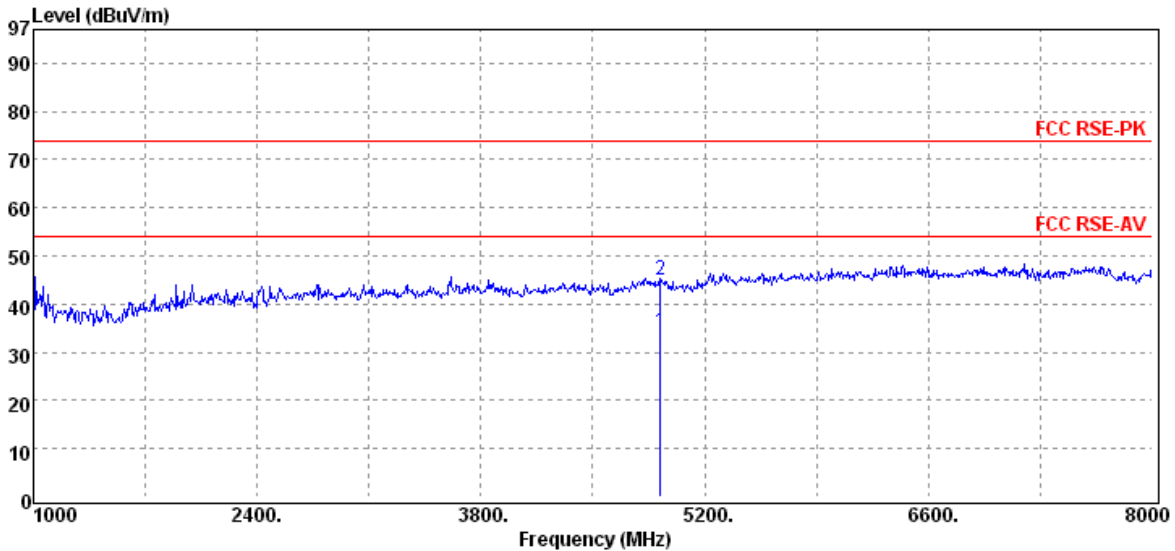
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| | | | |
|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n 20M | Test Date | :2012-11-28 |
| Fundamental Frequency | :2462 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |



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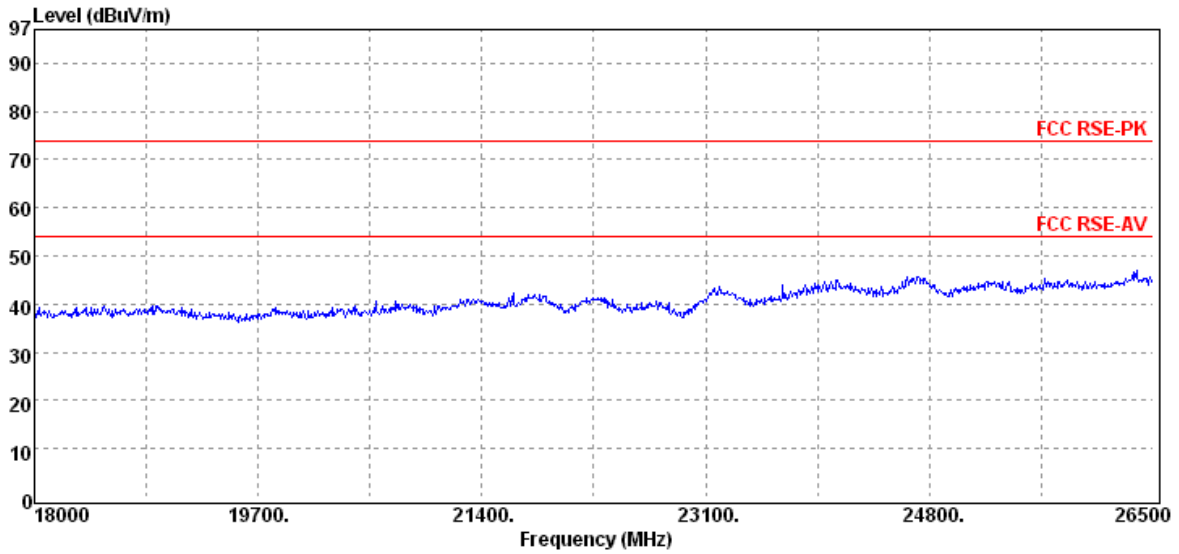
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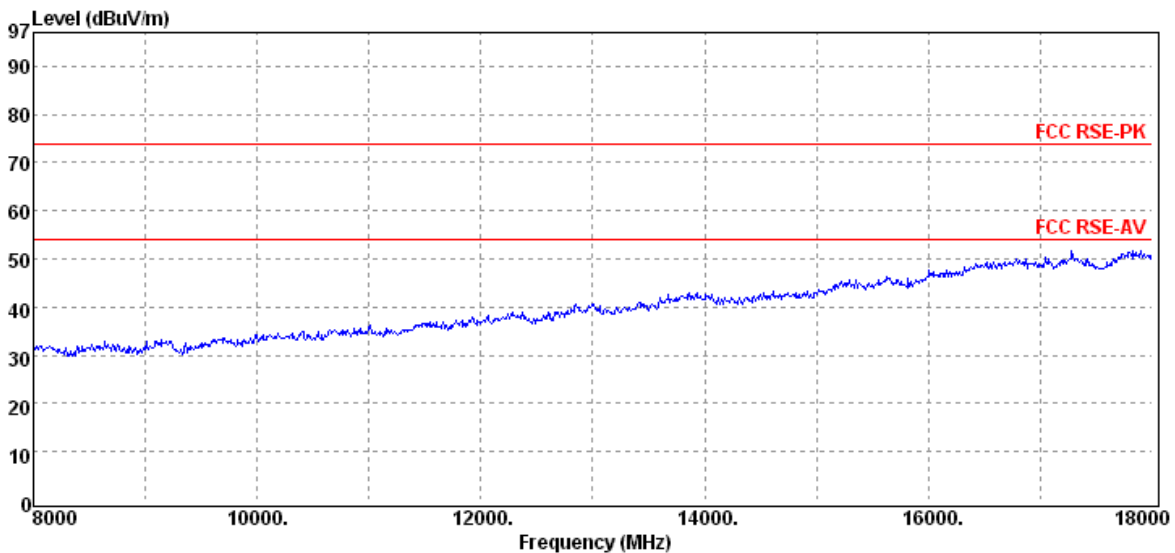
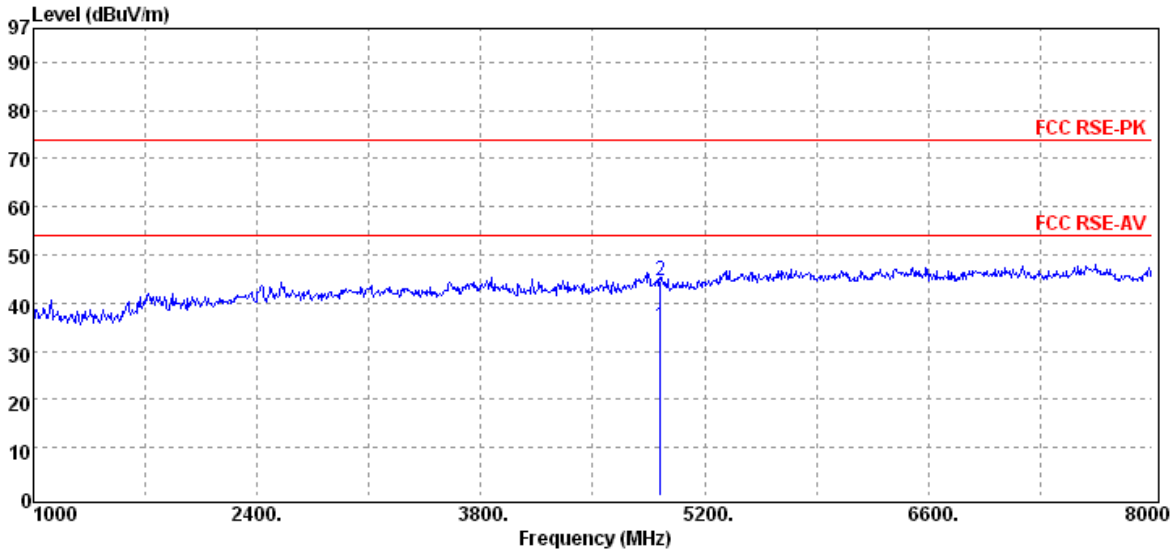
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| | | | |
|-----------------------|--------------|--------------------------|-----------------|
| Operation Band | :802.11n 20M | Test Date | :2012-11-28 |
| Fundamental Frequency | :2462 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :HORIZONTAL |



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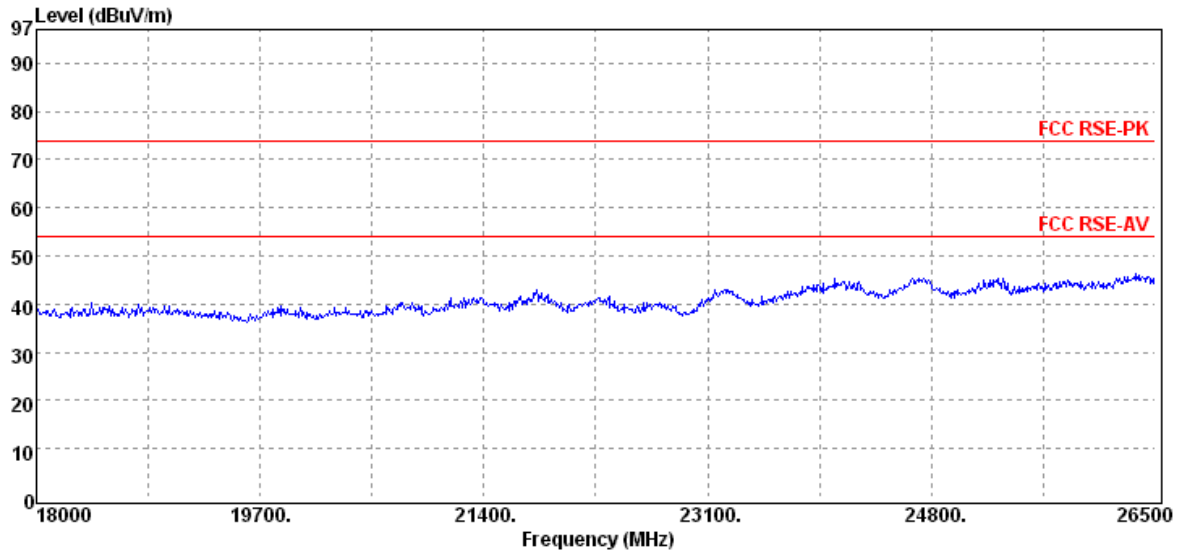
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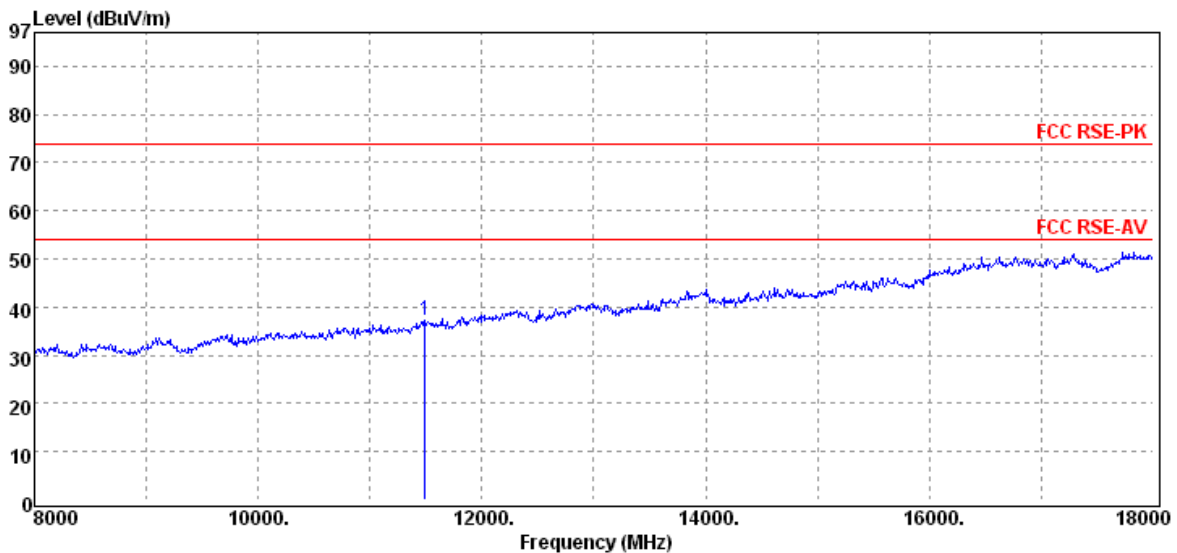
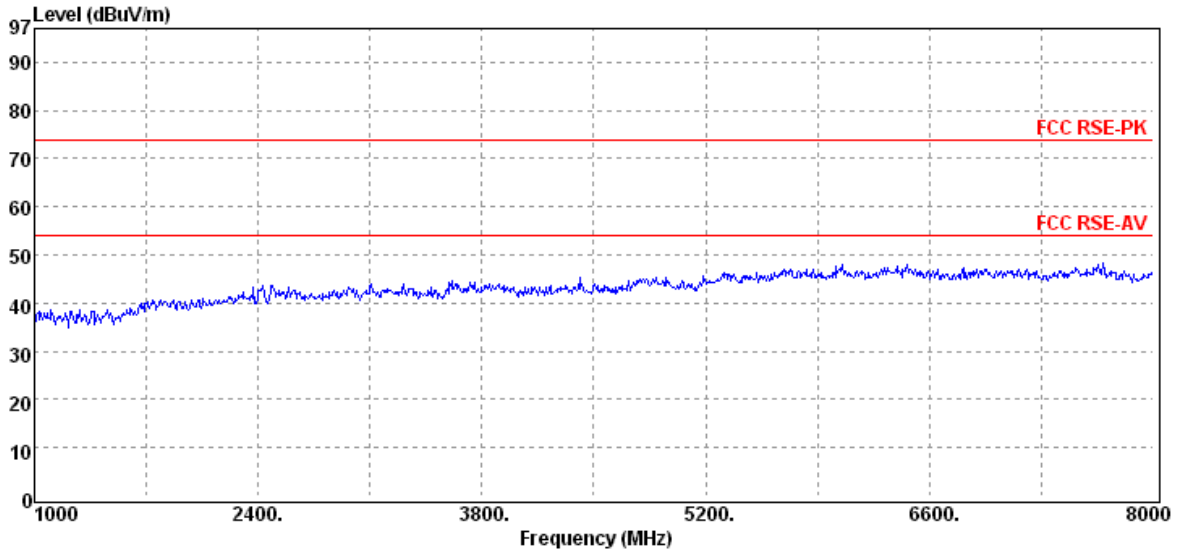
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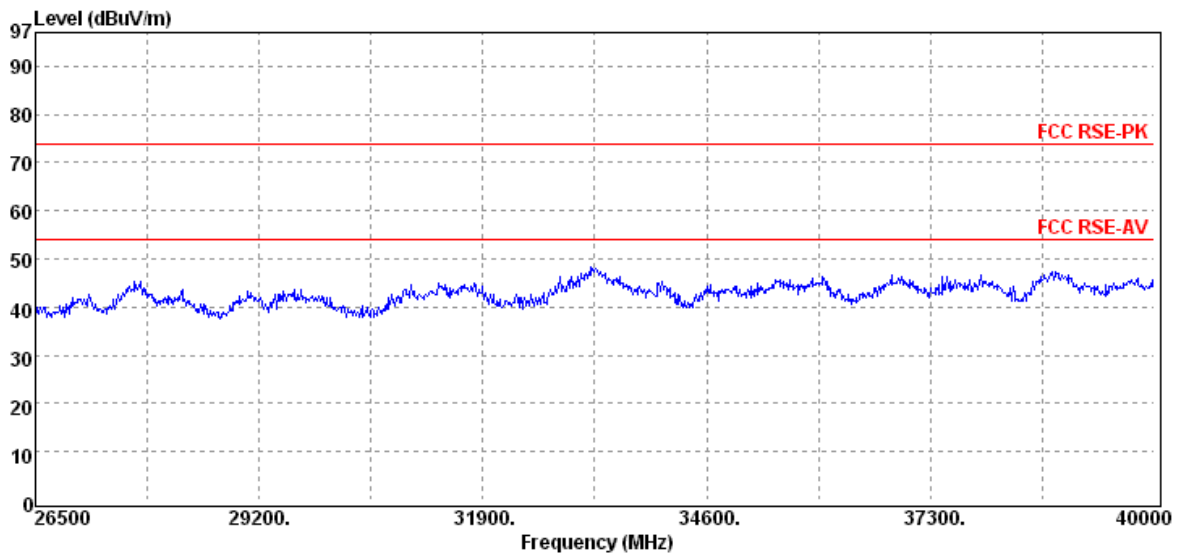
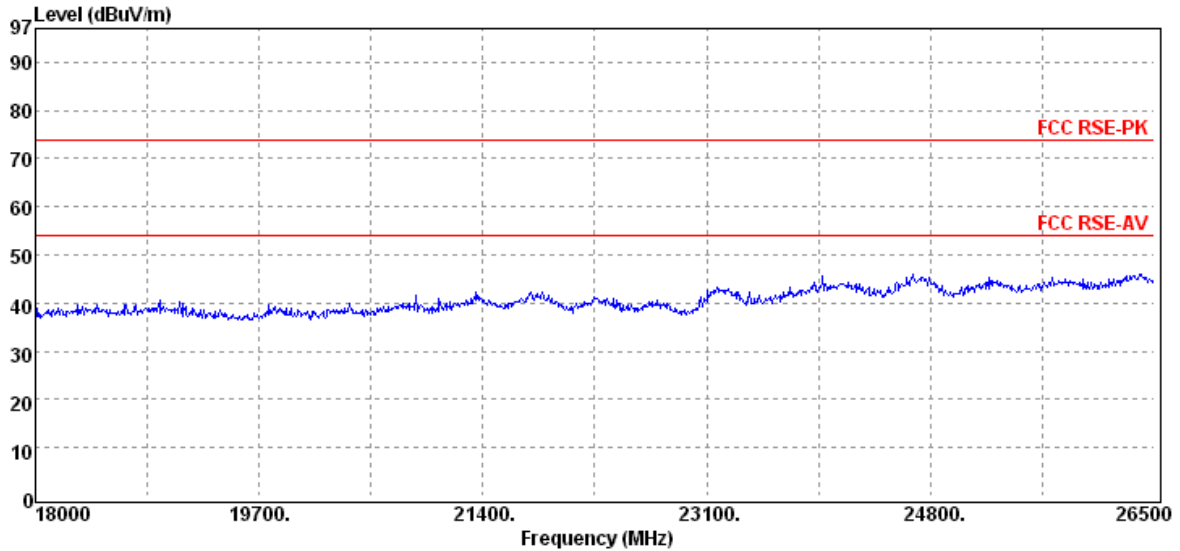
| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-28 |
| Fundamental Frequency | :5745 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |



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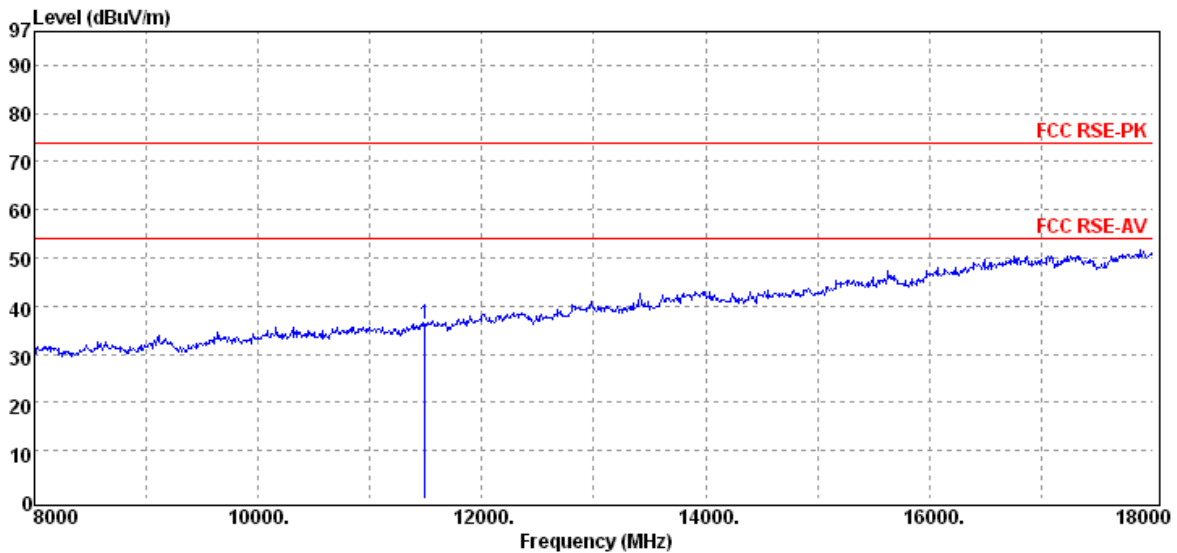
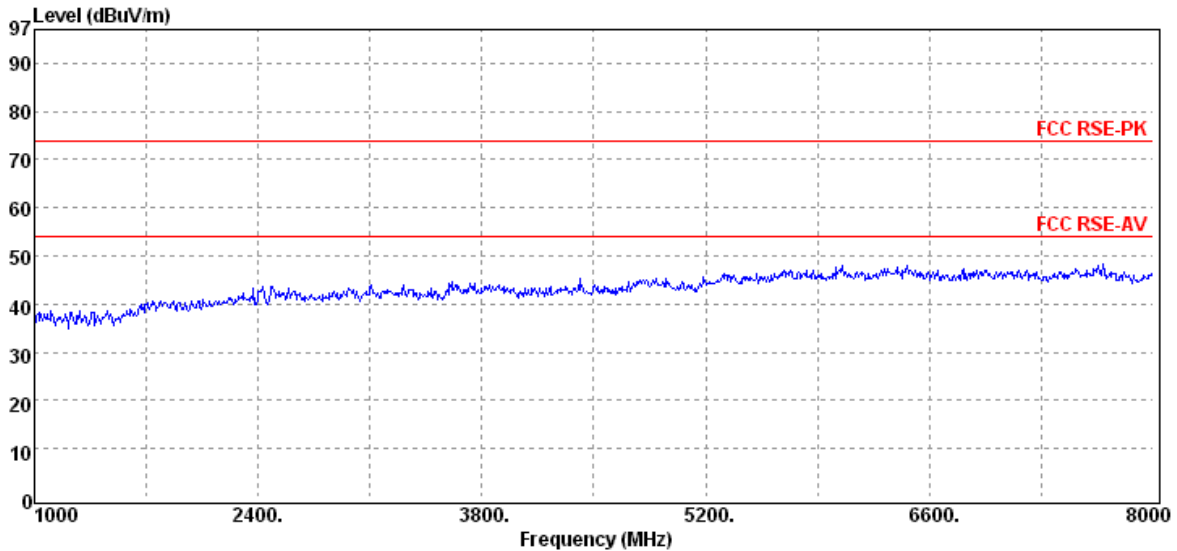
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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-28 |
| Fundamental Frequency | :5745 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :HORIZONTAL |



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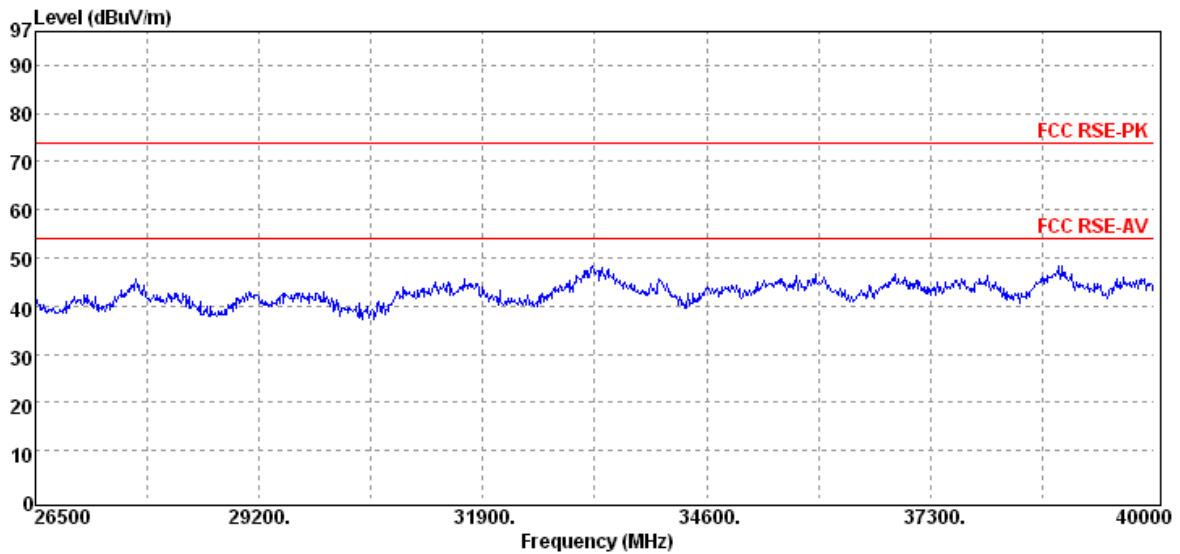
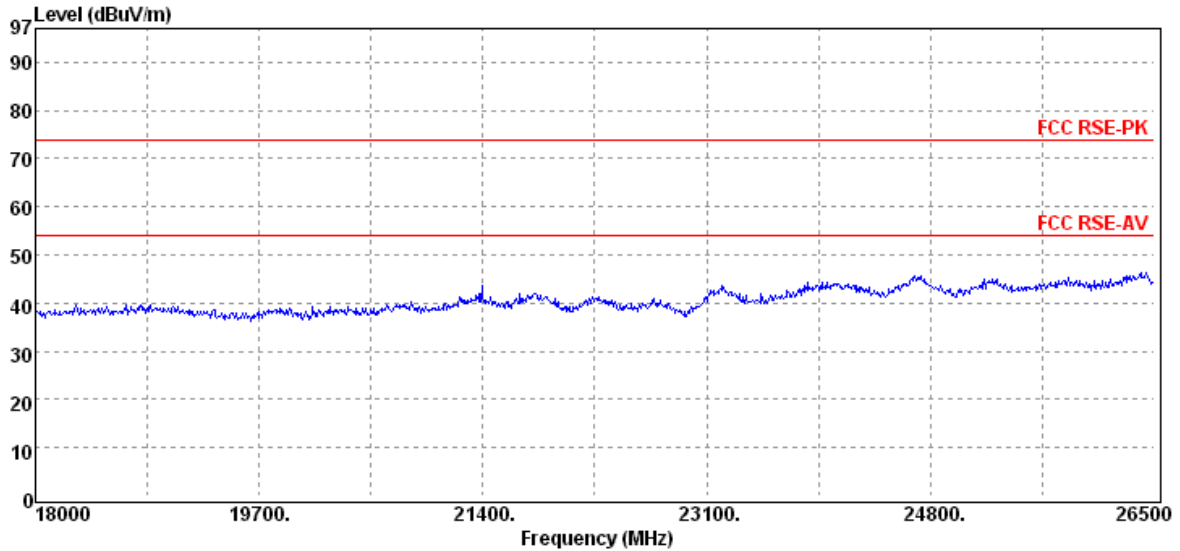
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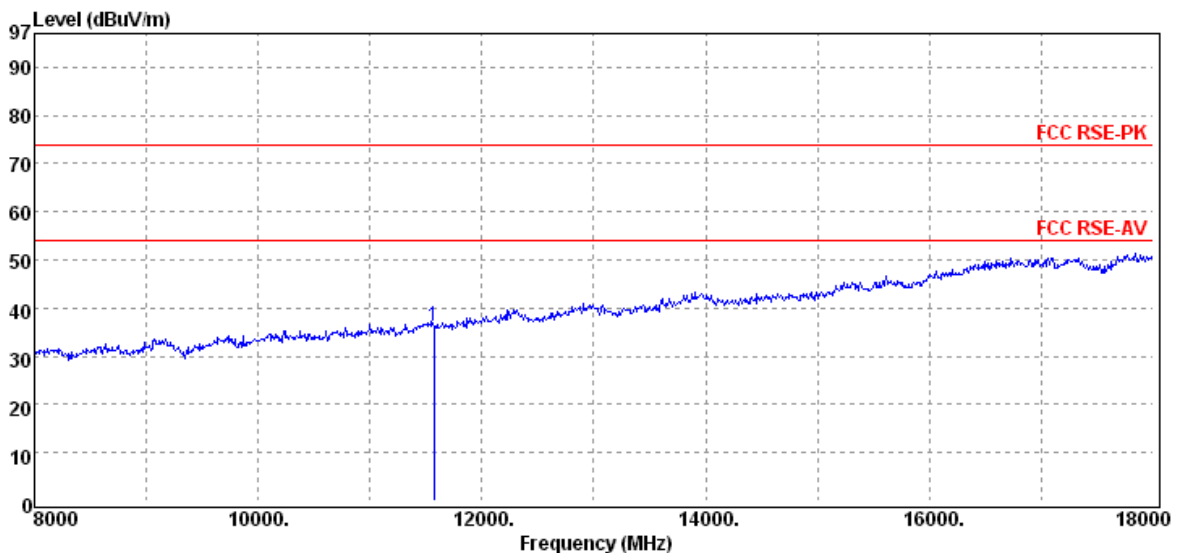
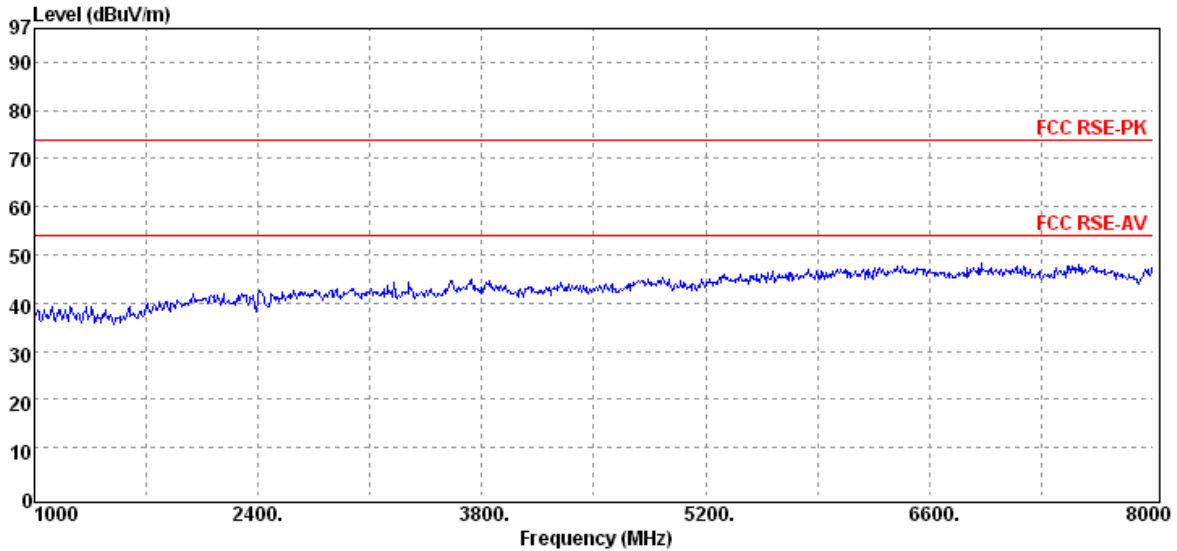
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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-28 |
| Fundamental Frequency | :5785 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |



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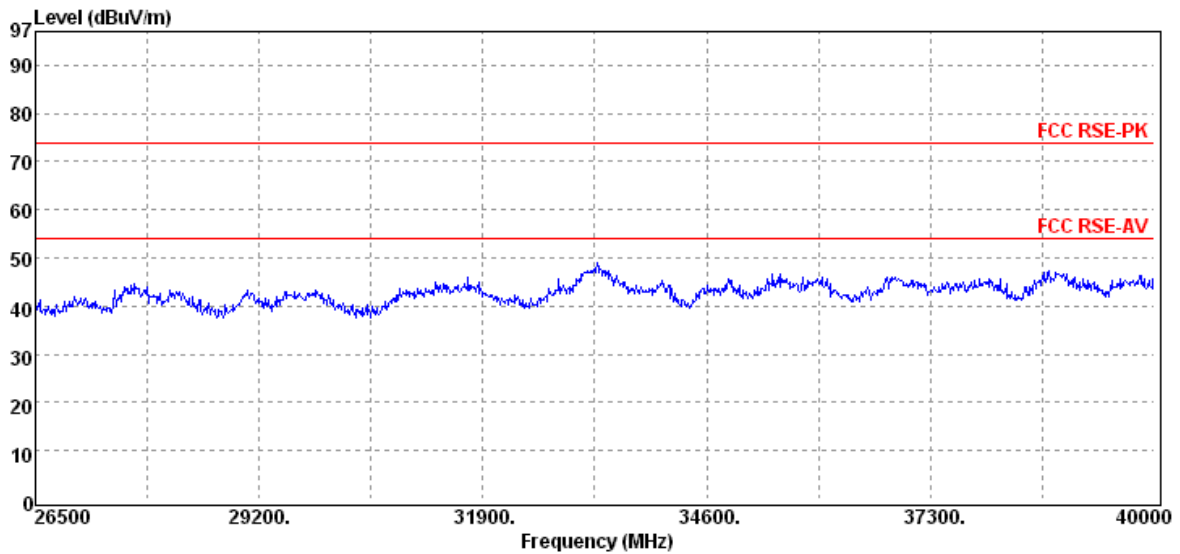
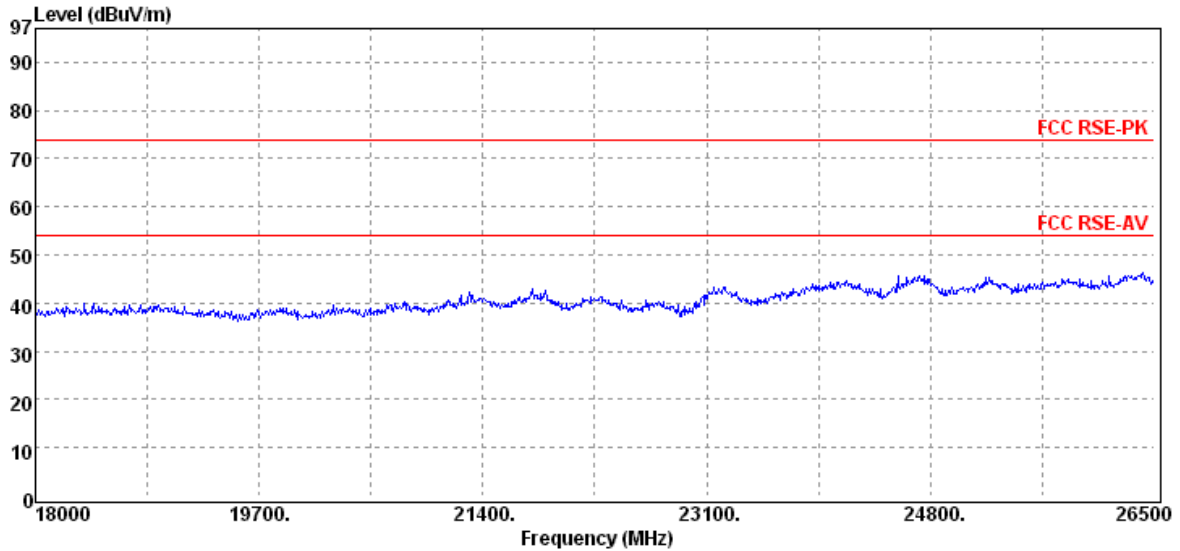
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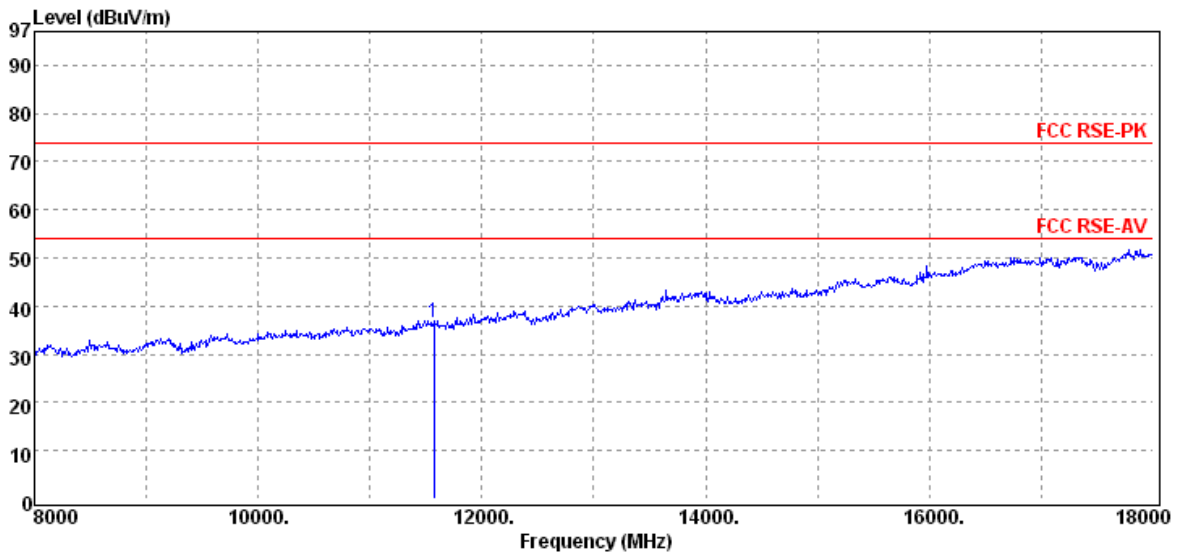
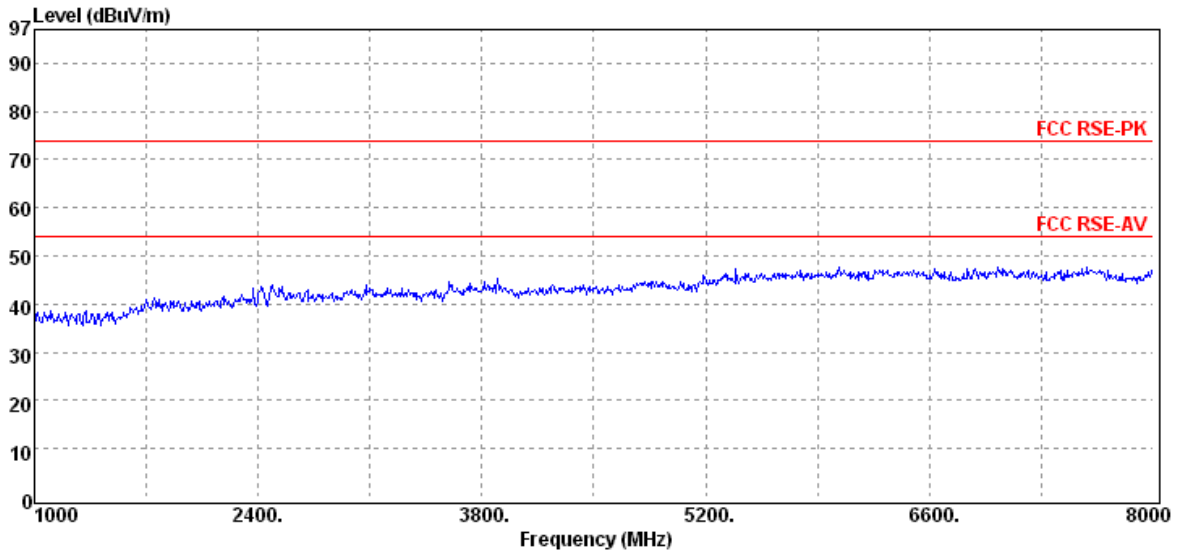
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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-28 |
| Fundamental Frequency | :5785 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :HORIZONTAL |



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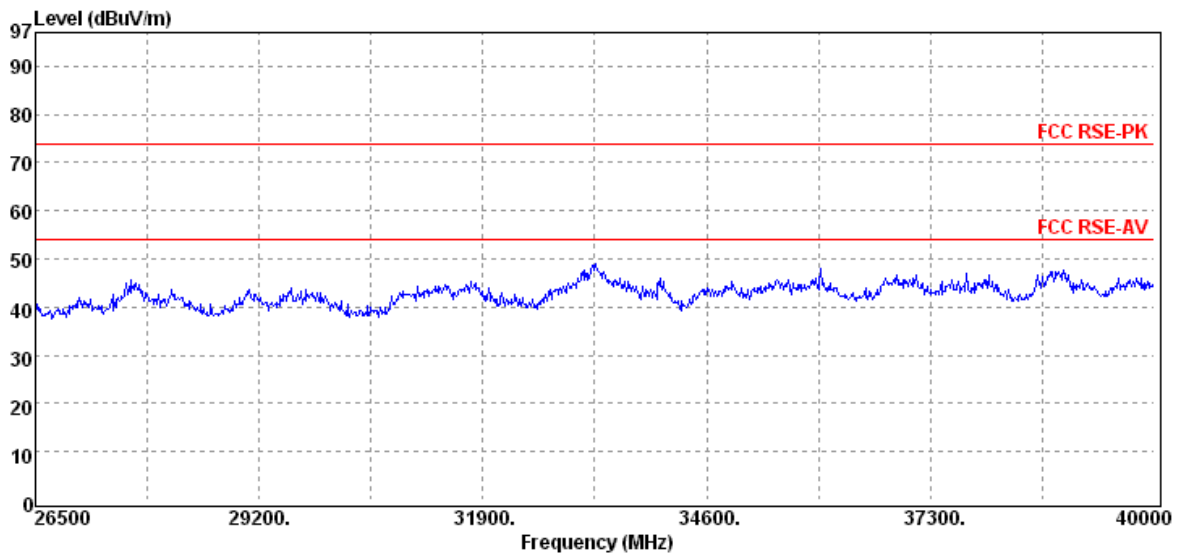
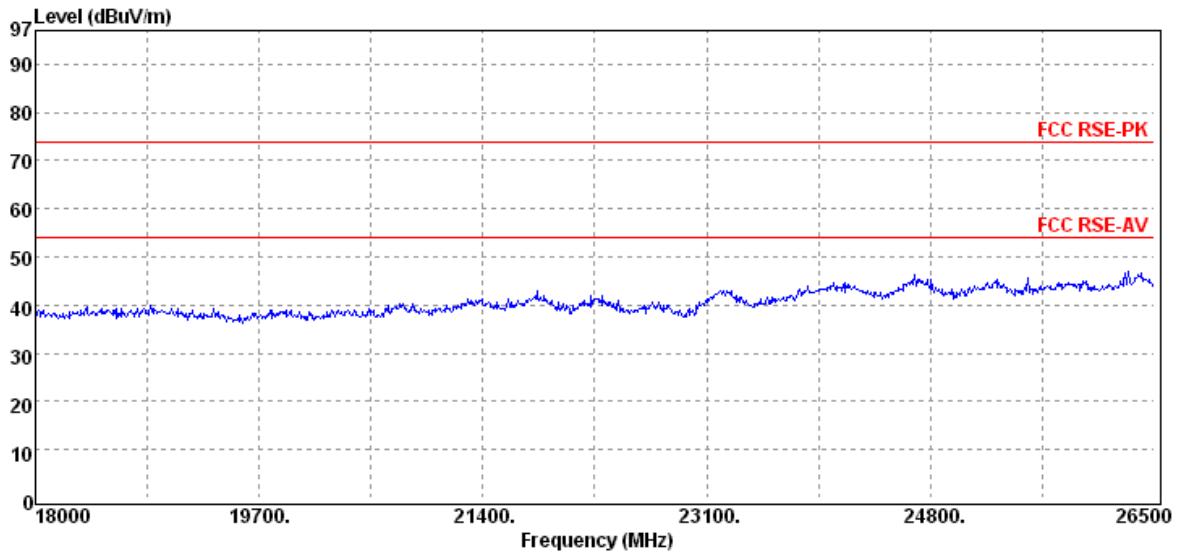
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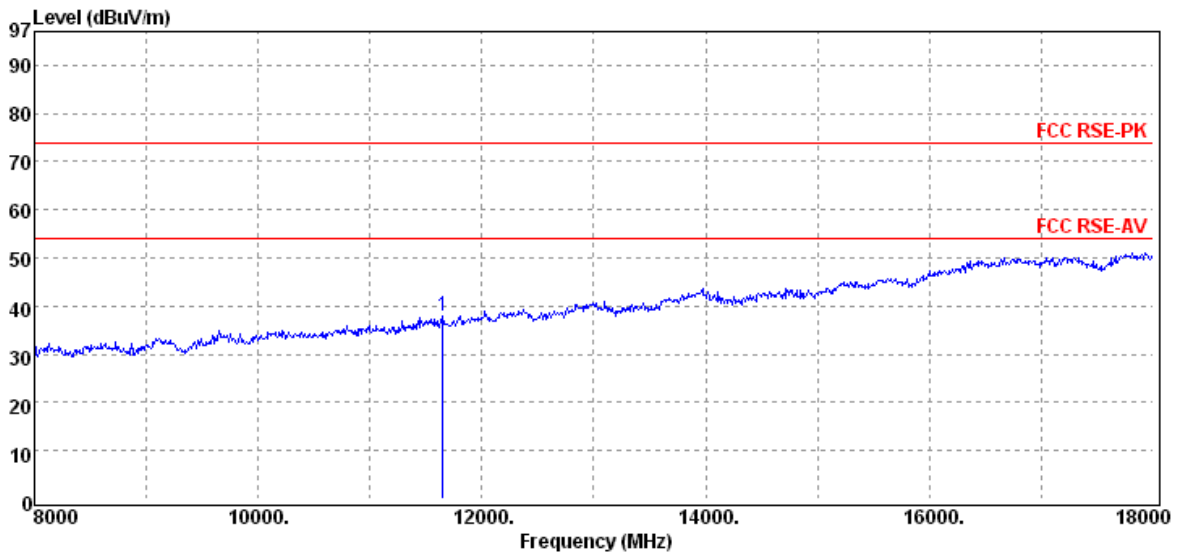
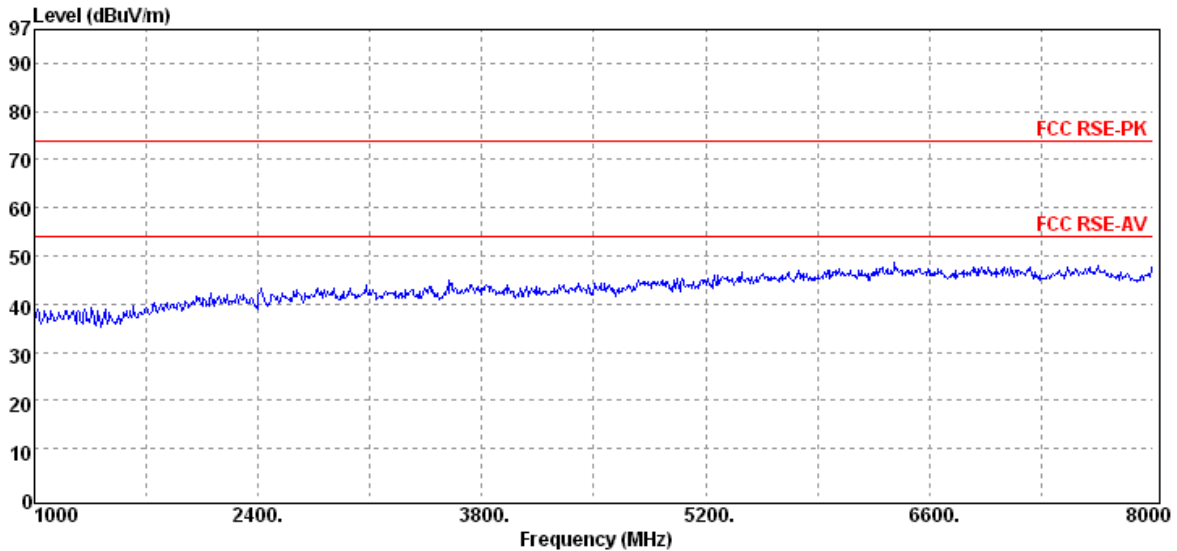
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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-28 |
| Fundamental Frequency | :5825 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |



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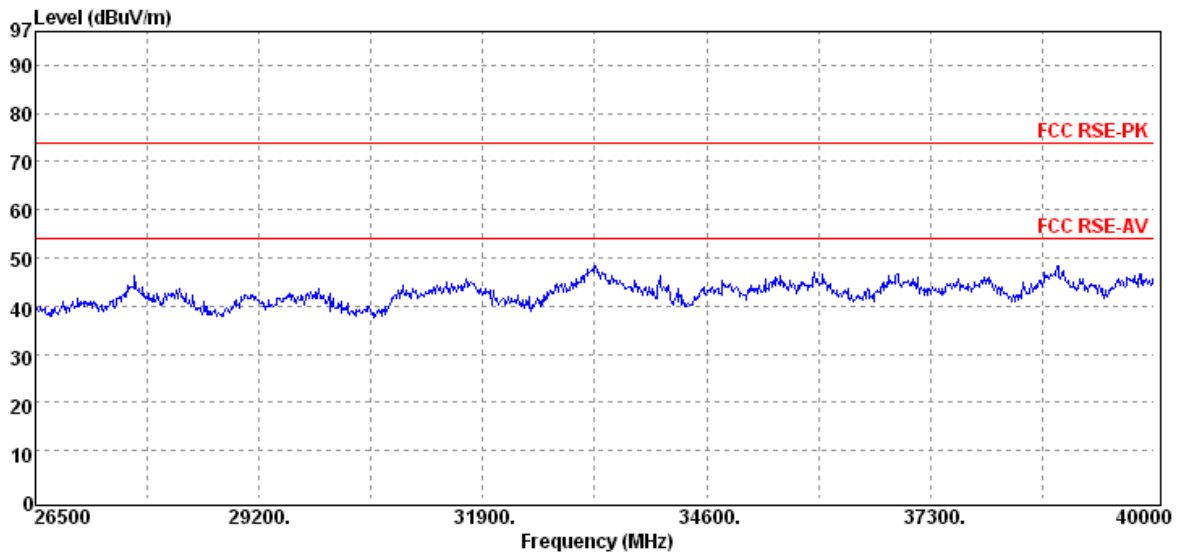
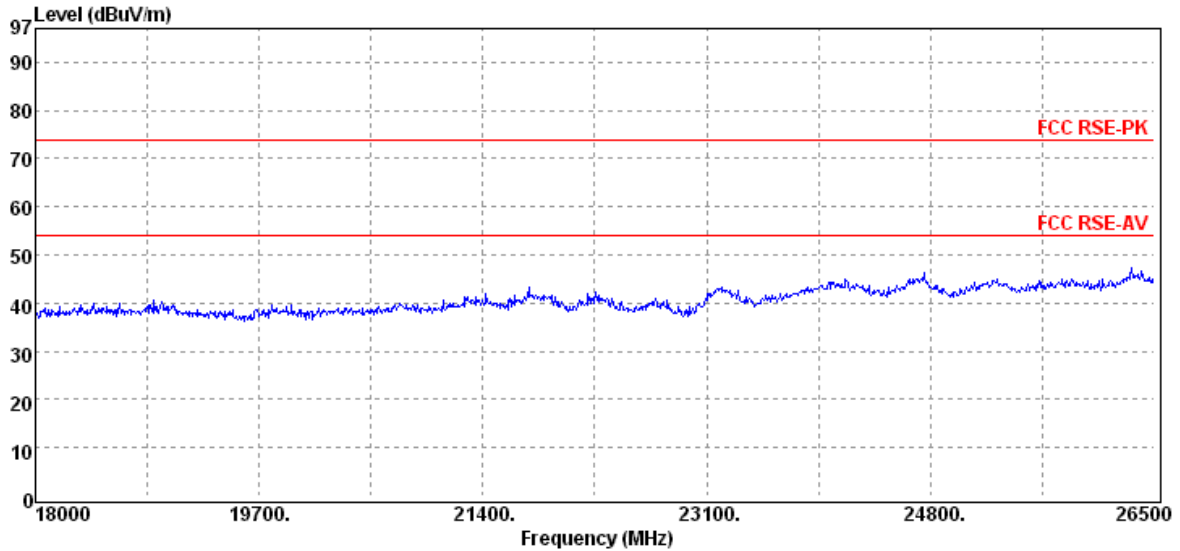
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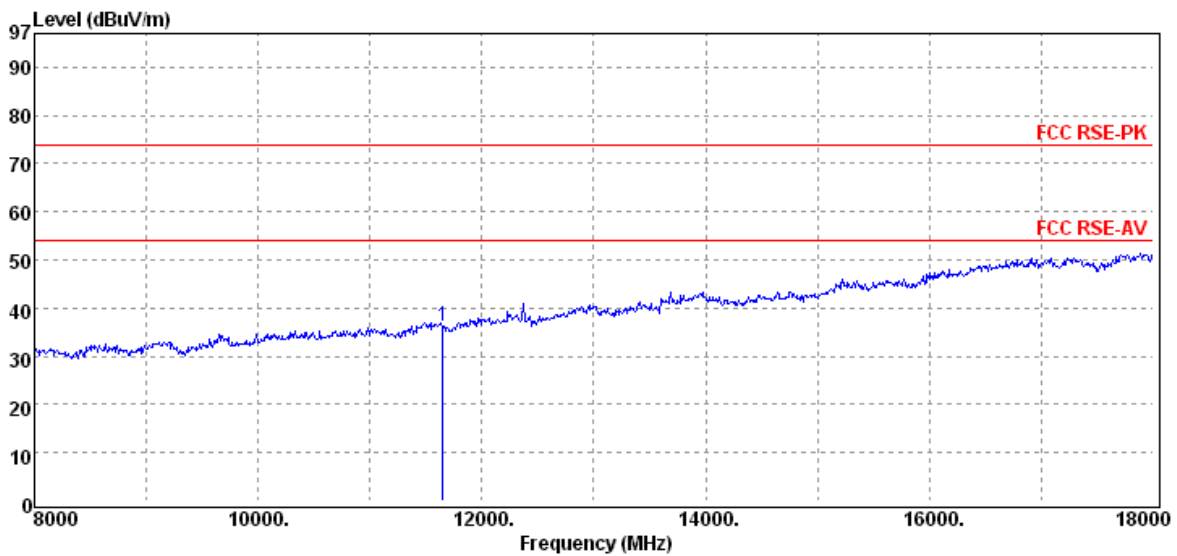
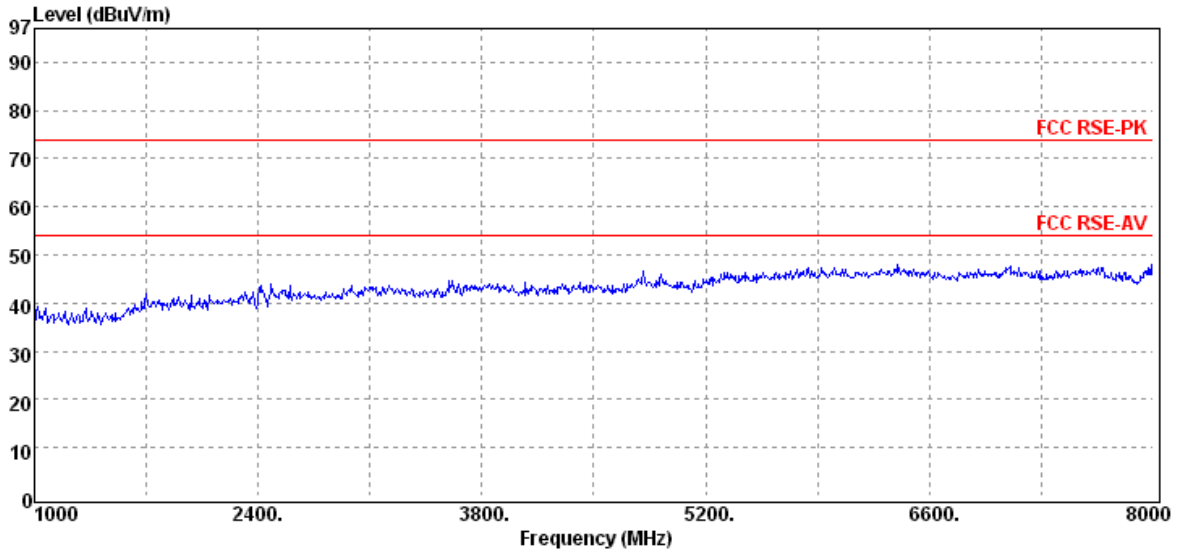
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| | | | |
|-----------------------|-----------|--------------------------|-----------------|
| Operation Band | :802.11a | Test Date | :2012-11-28 |
| Fundamental Frequency | :5825 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :HORIZONTAL |



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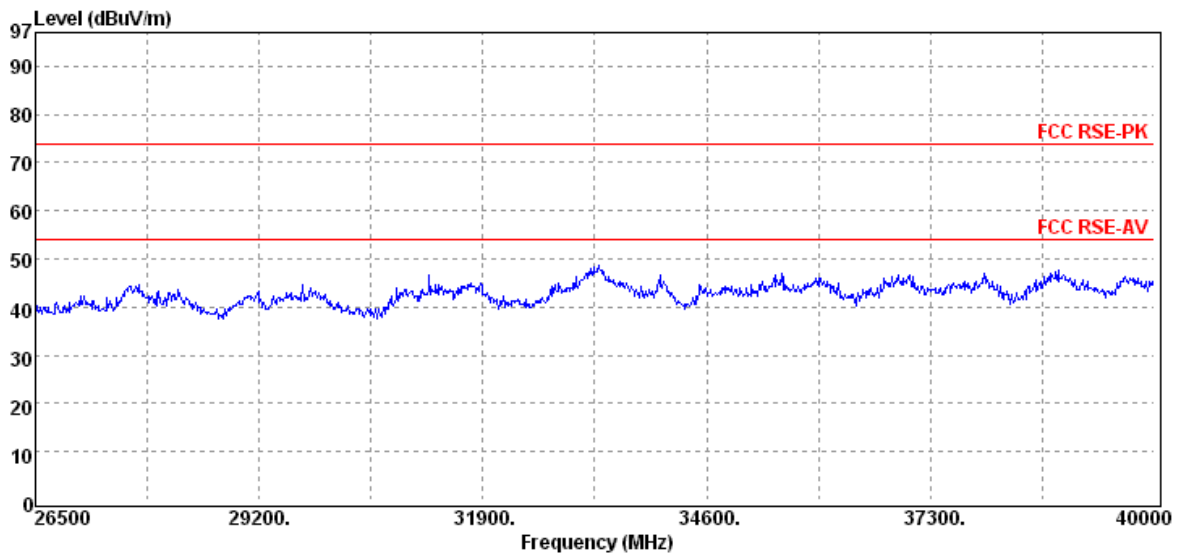
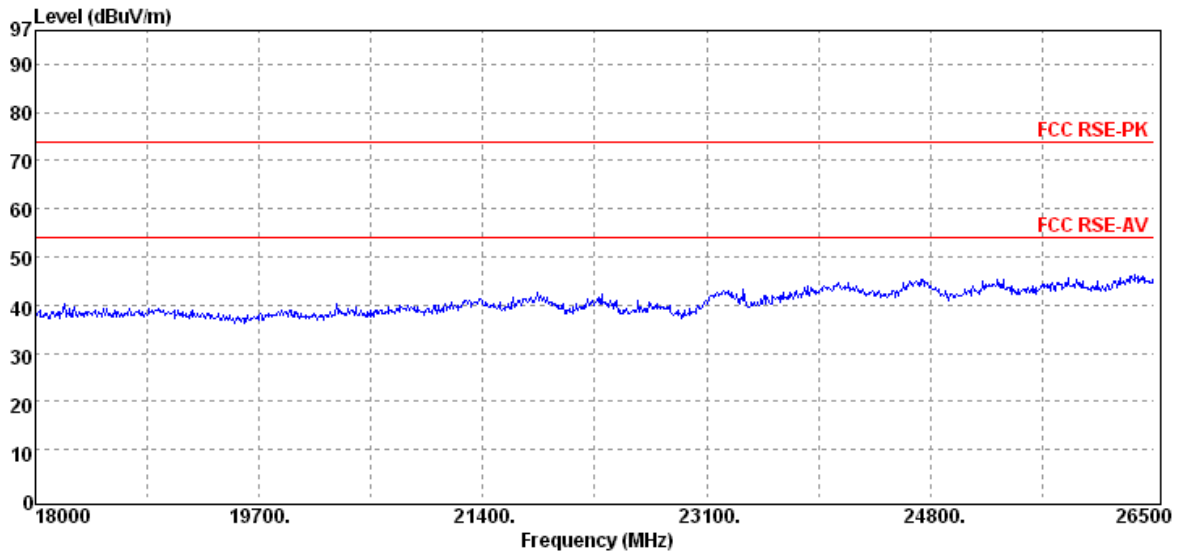
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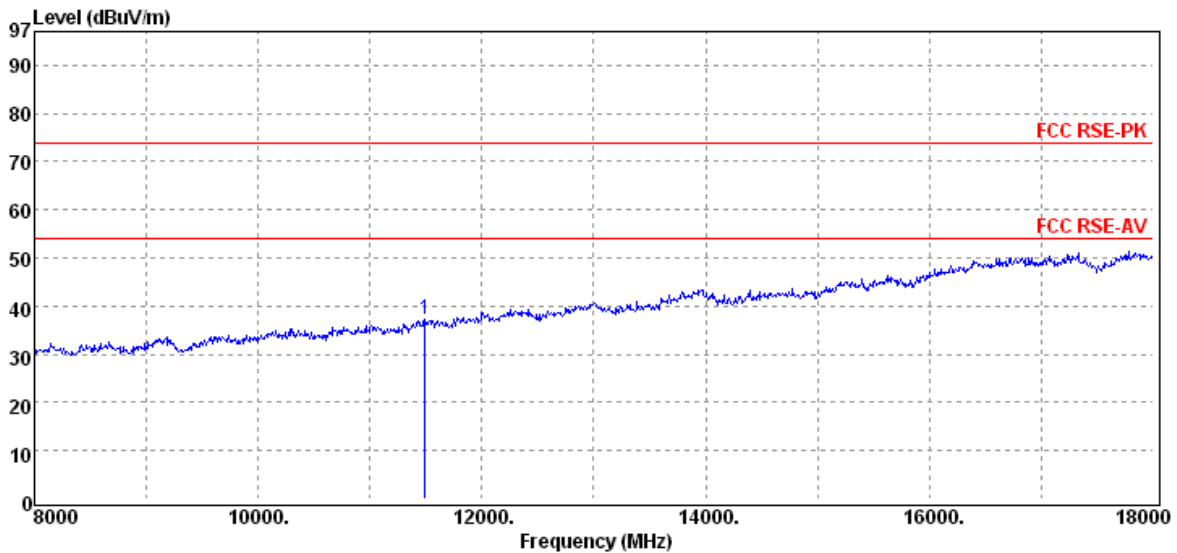
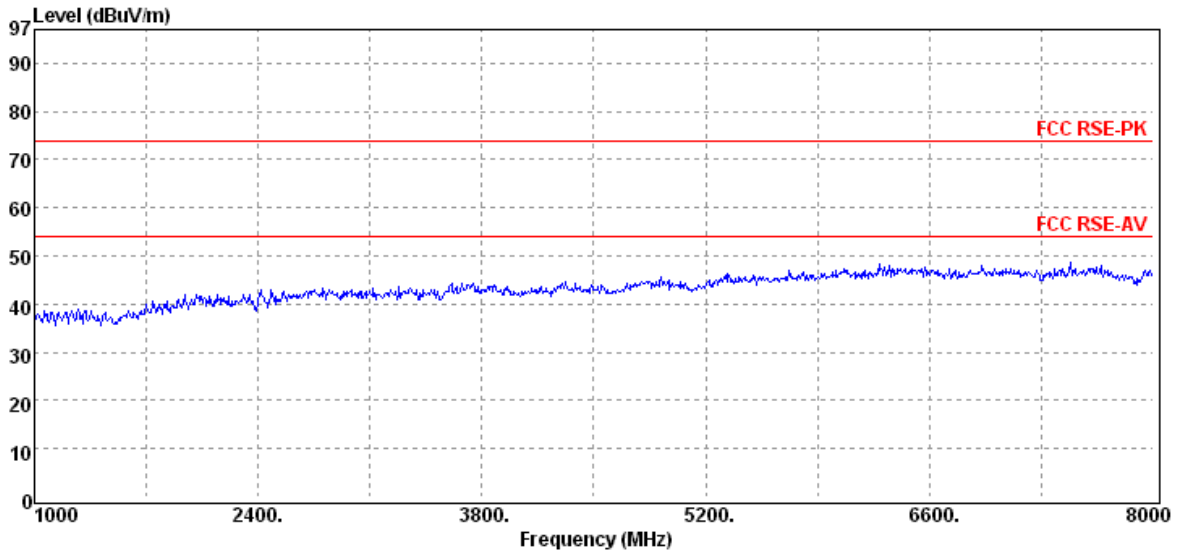
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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-28 |
| Fundamental Frequency | :5745 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |



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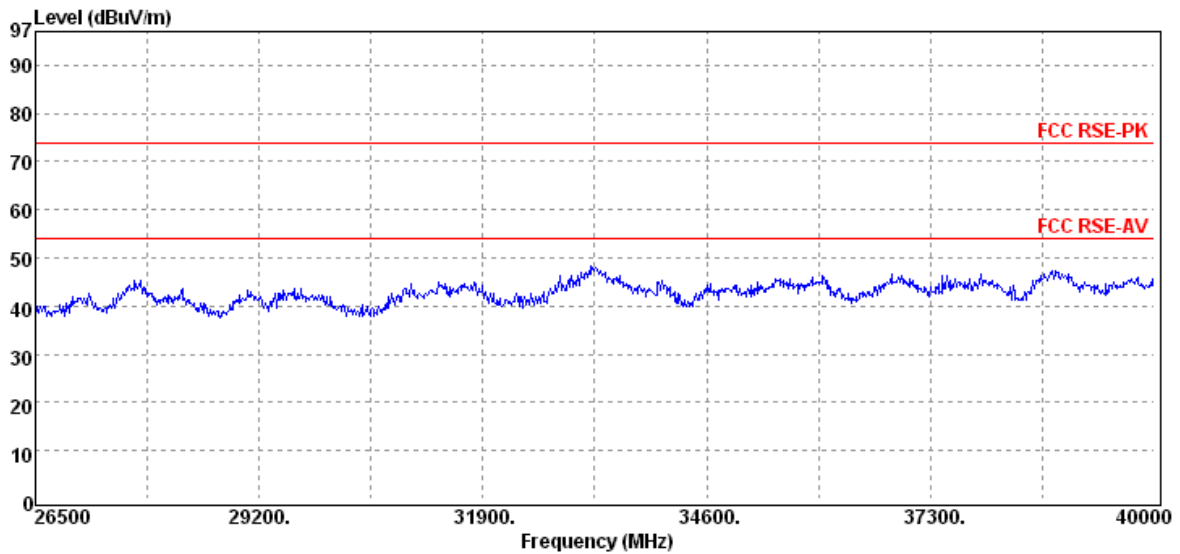
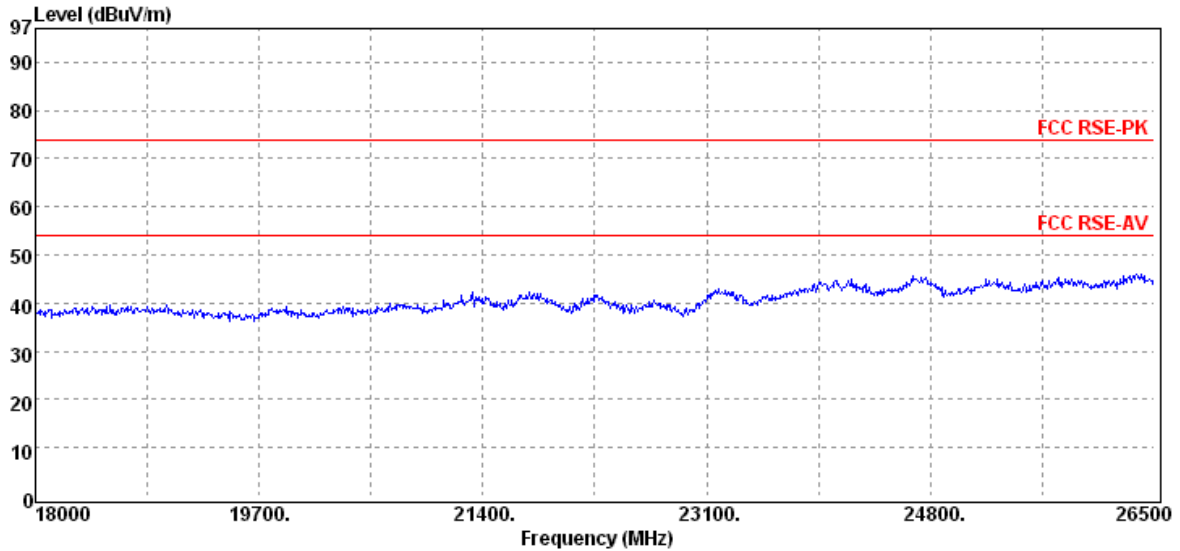
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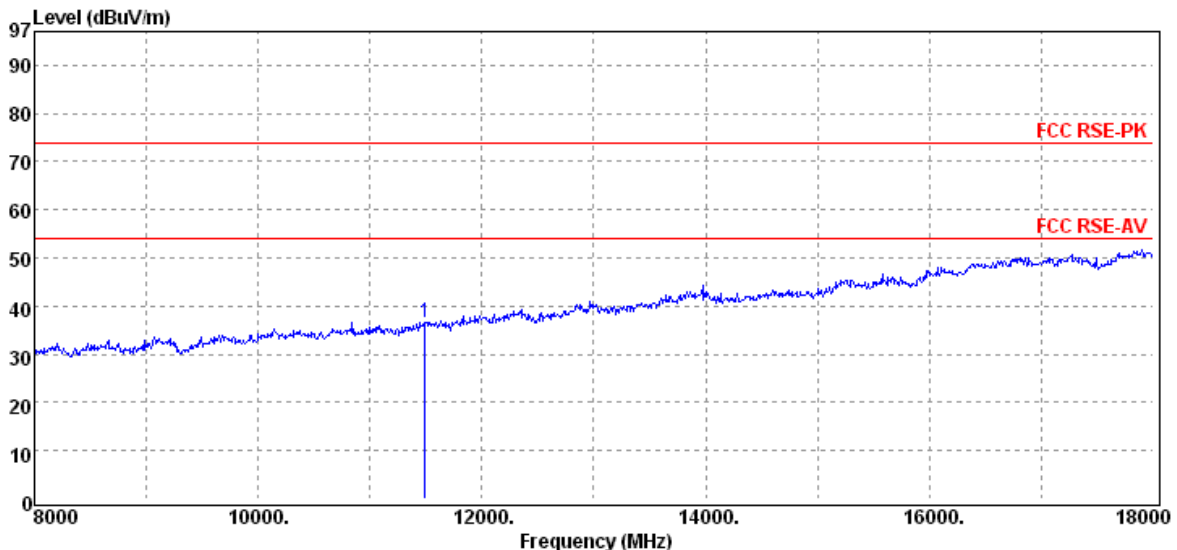
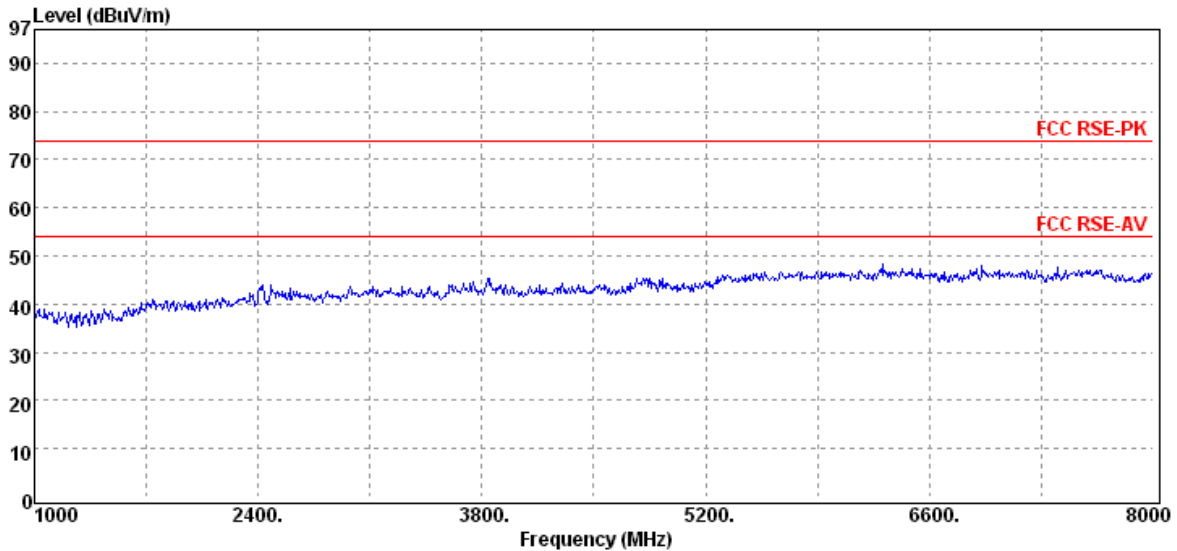
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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-28 |
| Fundamental Frequency | :5745 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :HORIZONTAL |



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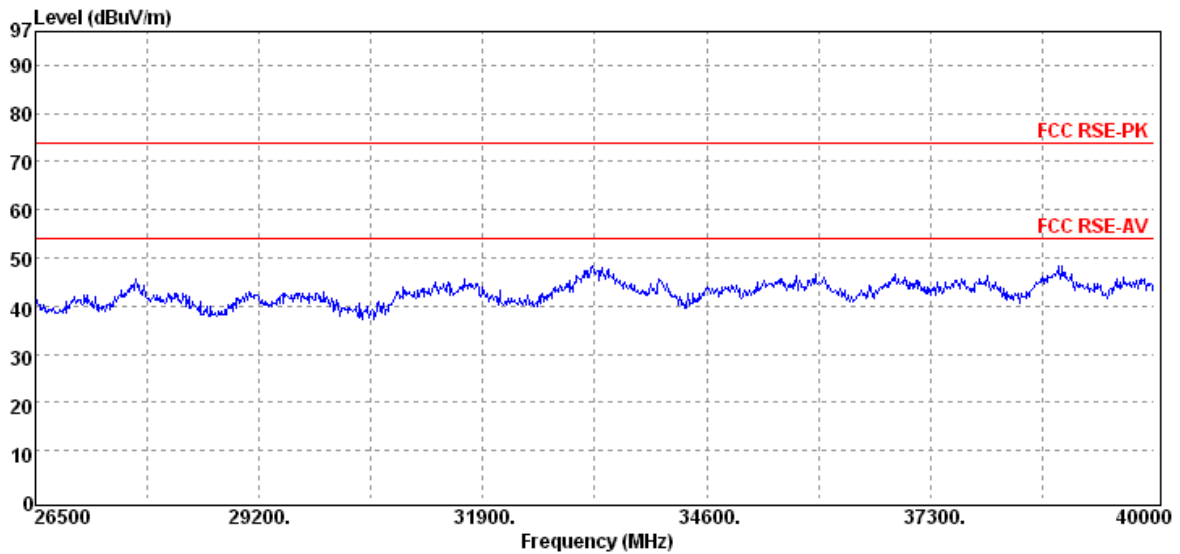
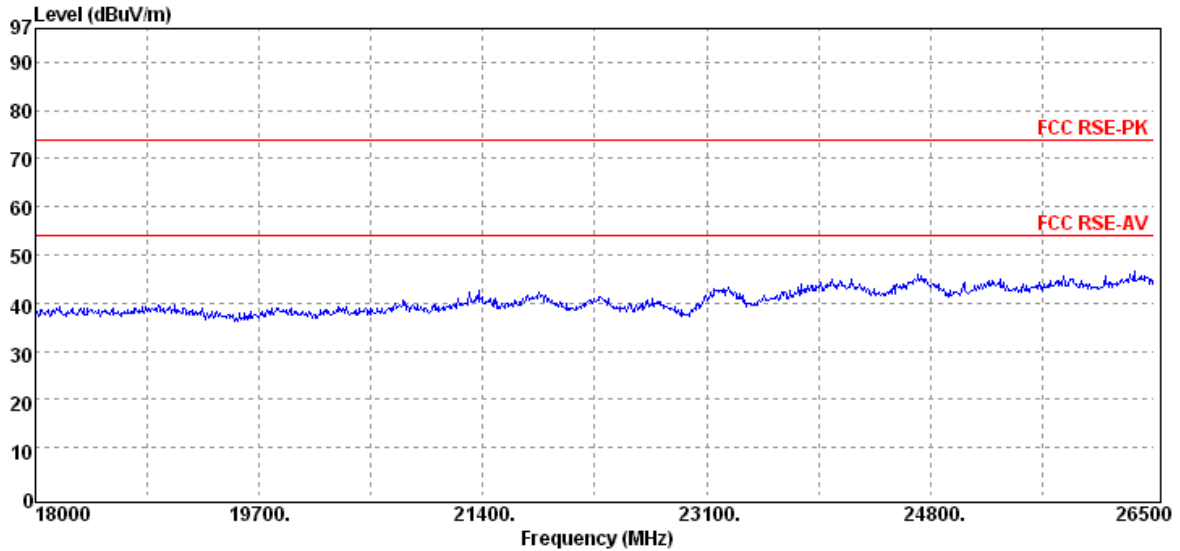
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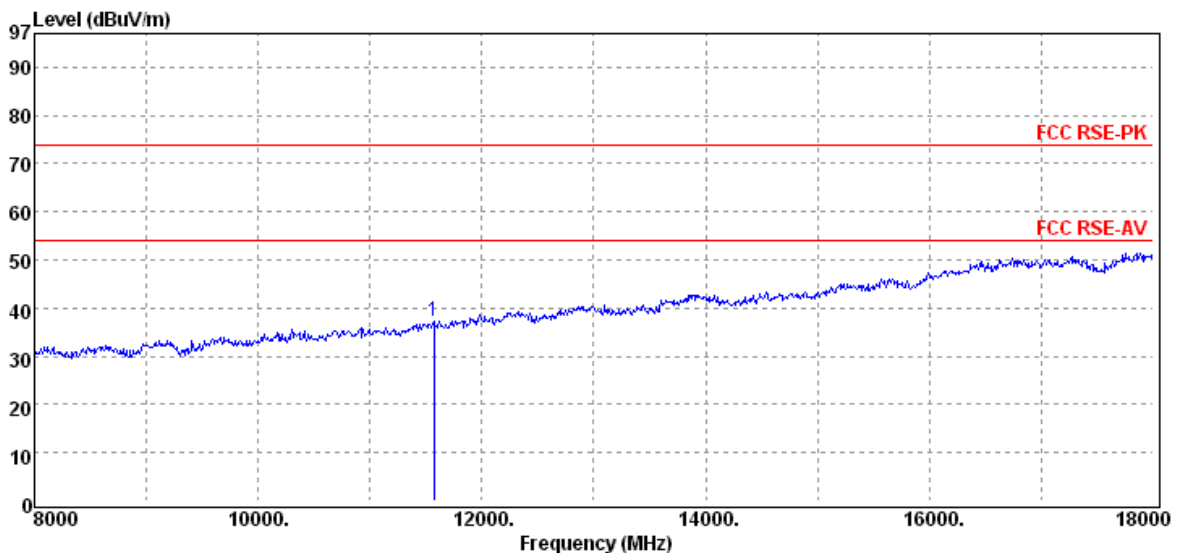
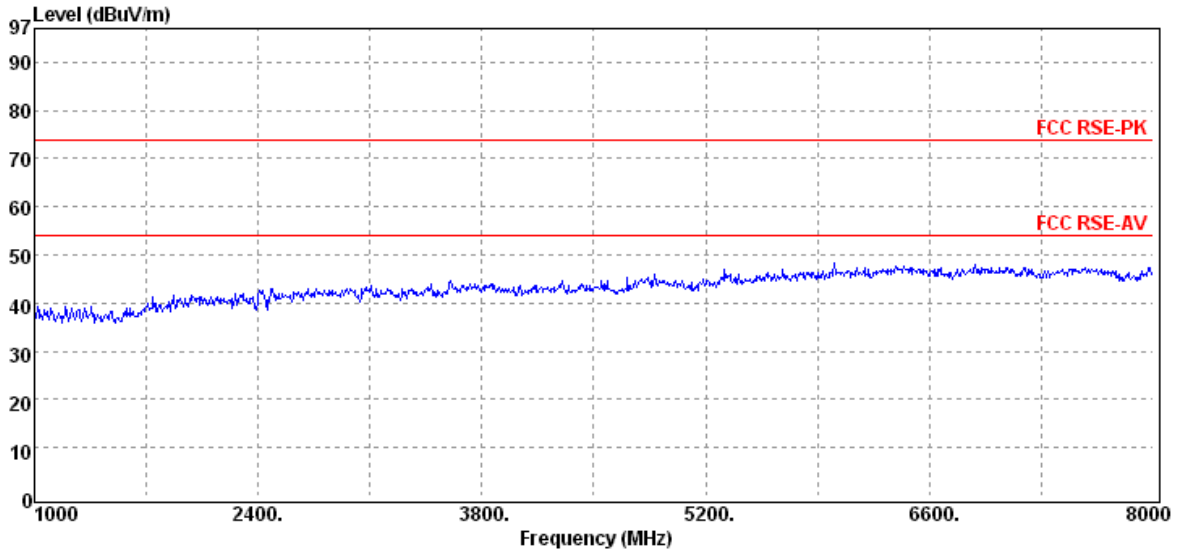
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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-28 |
| Fundamental Frequency | :5785 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |



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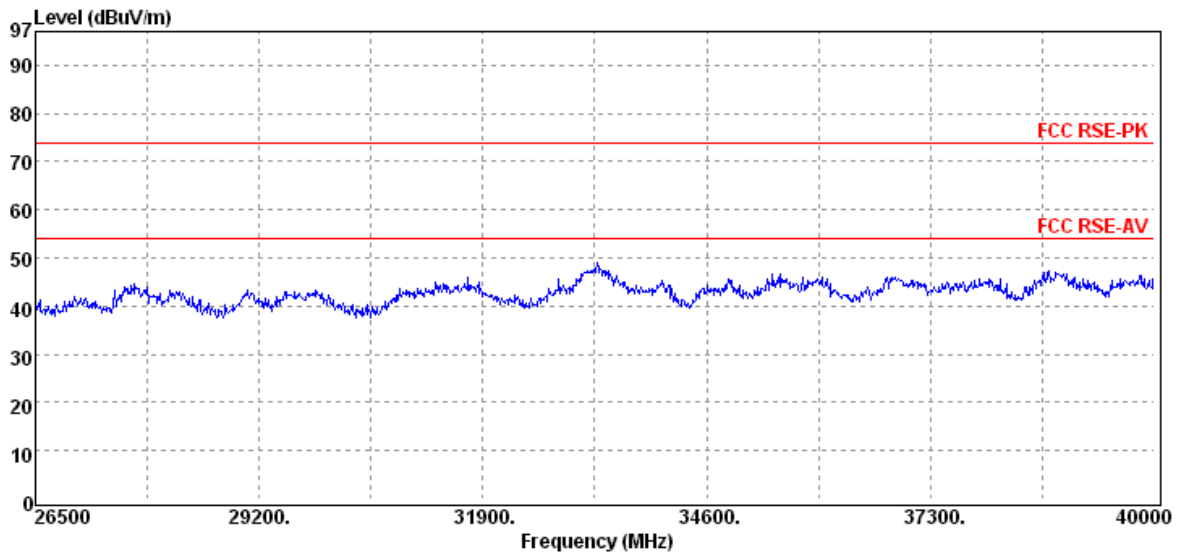
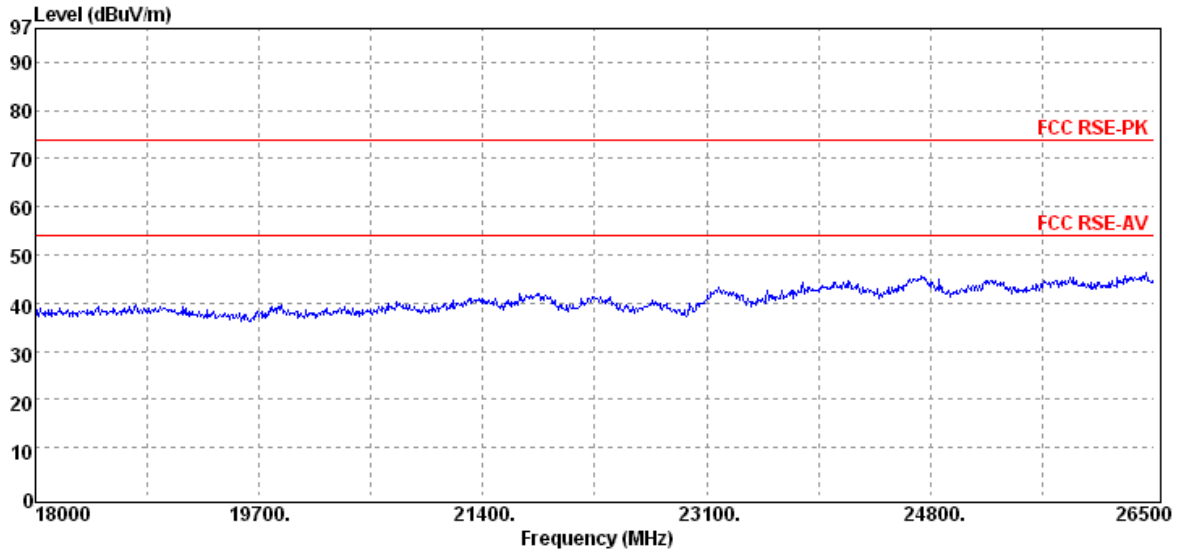
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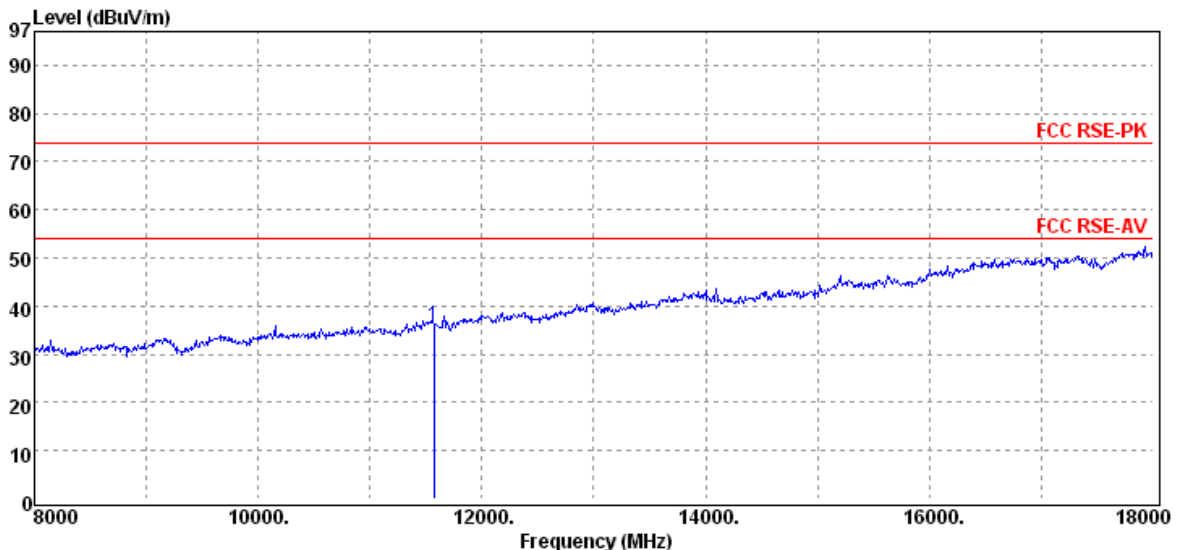
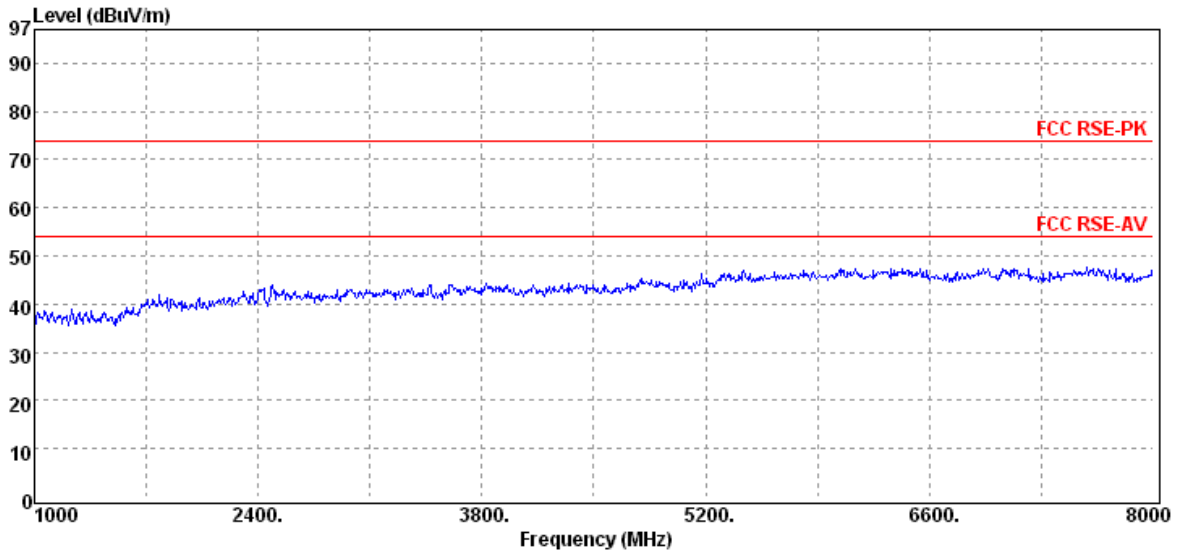
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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-28 |
| Fundamental Frequency | :5785 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX MID | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :HORIZONTAL |



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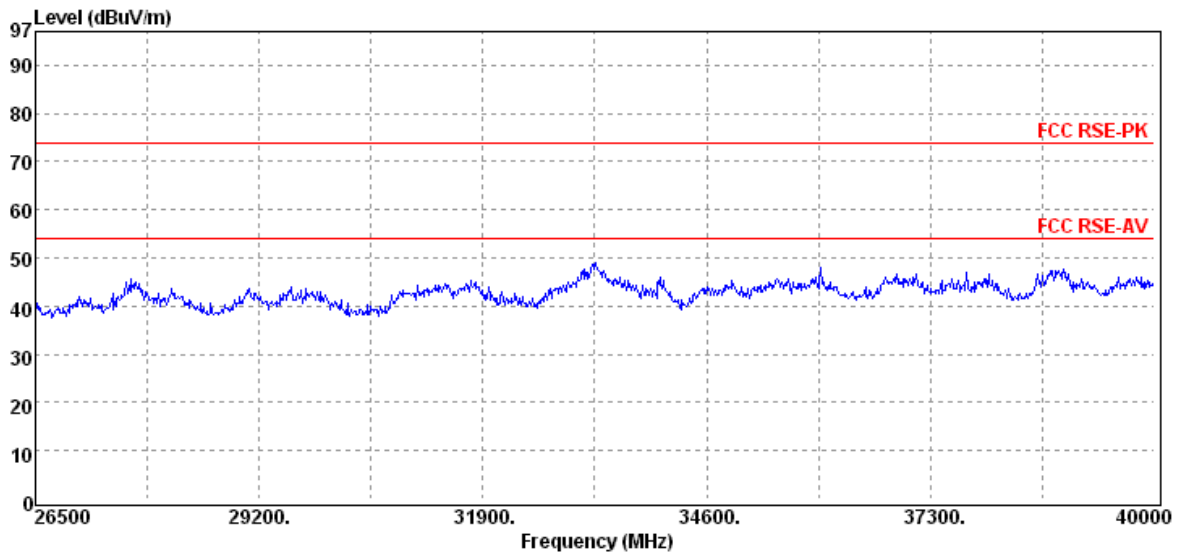
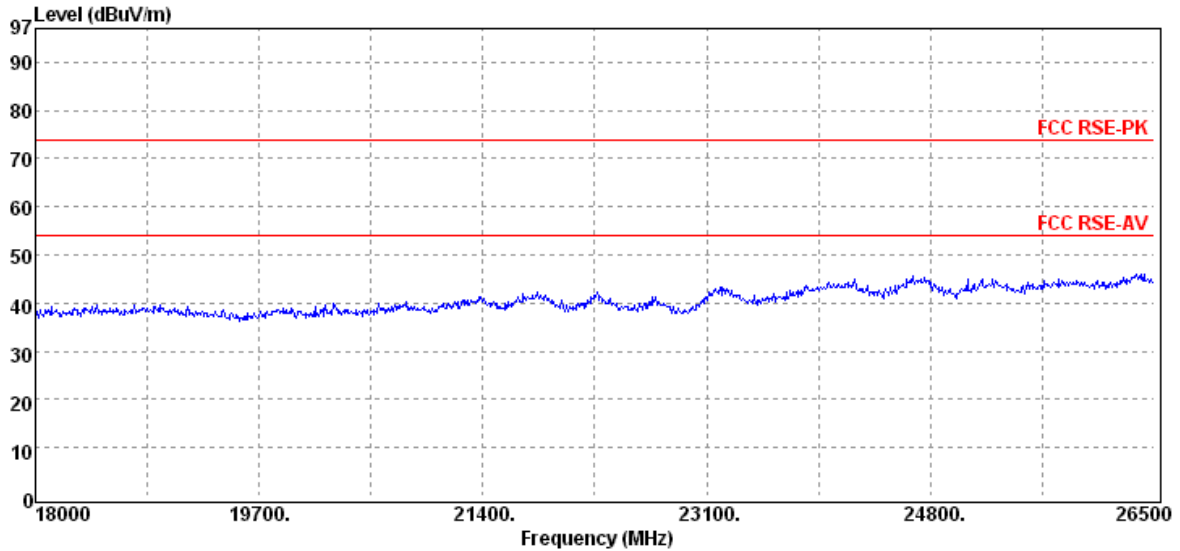
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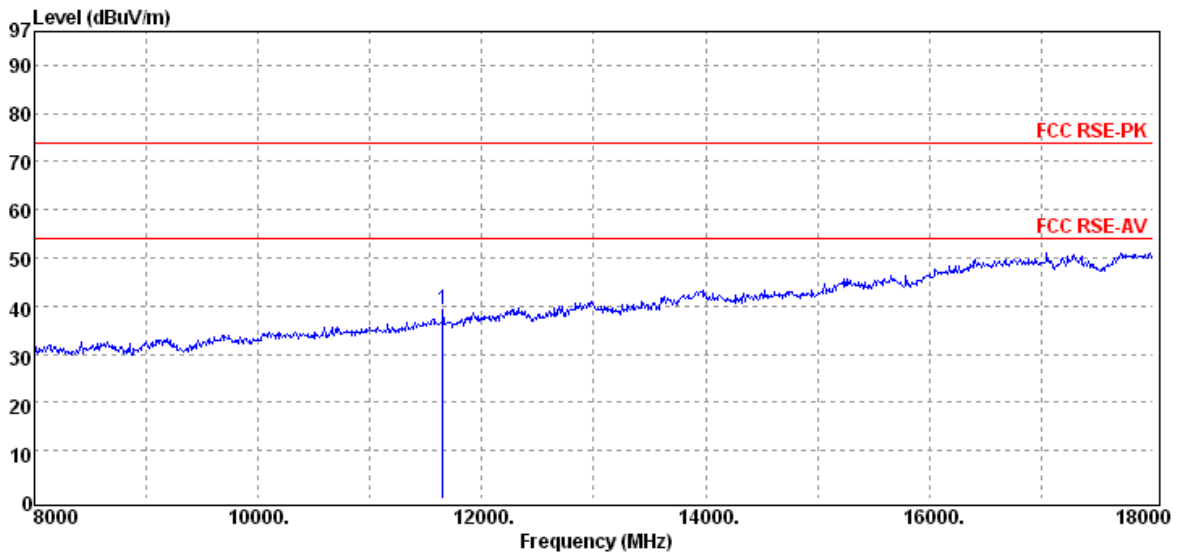
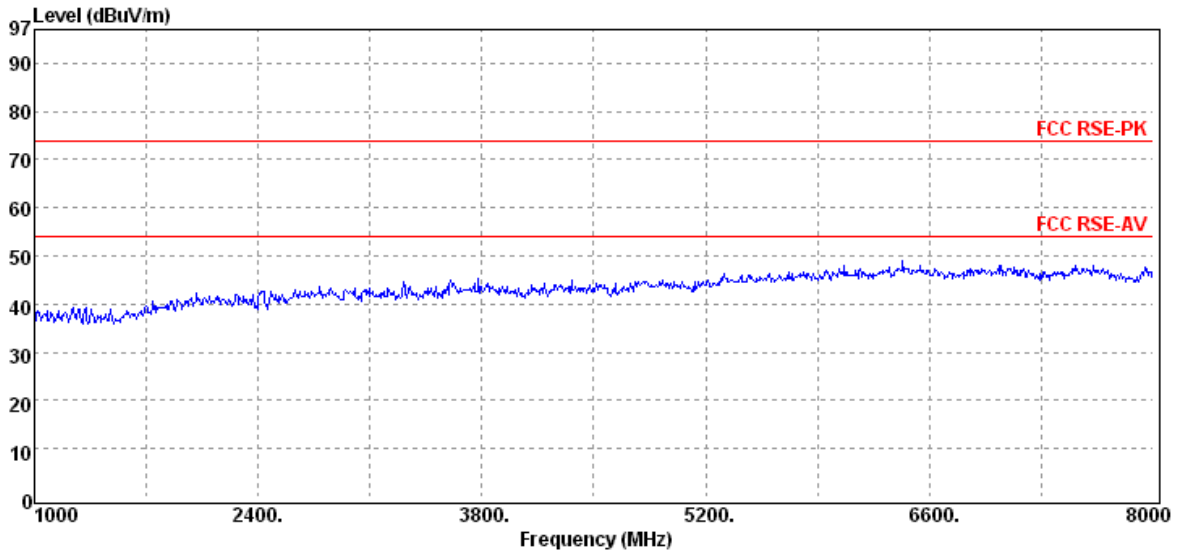
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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-28 |
| Fundamental Frequency | :5825 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |



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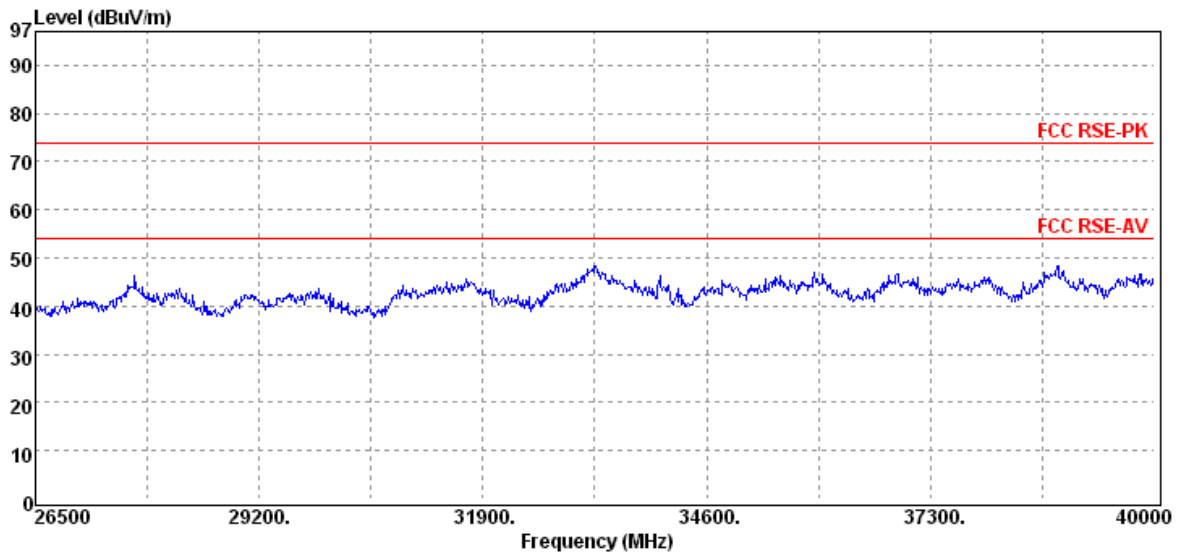
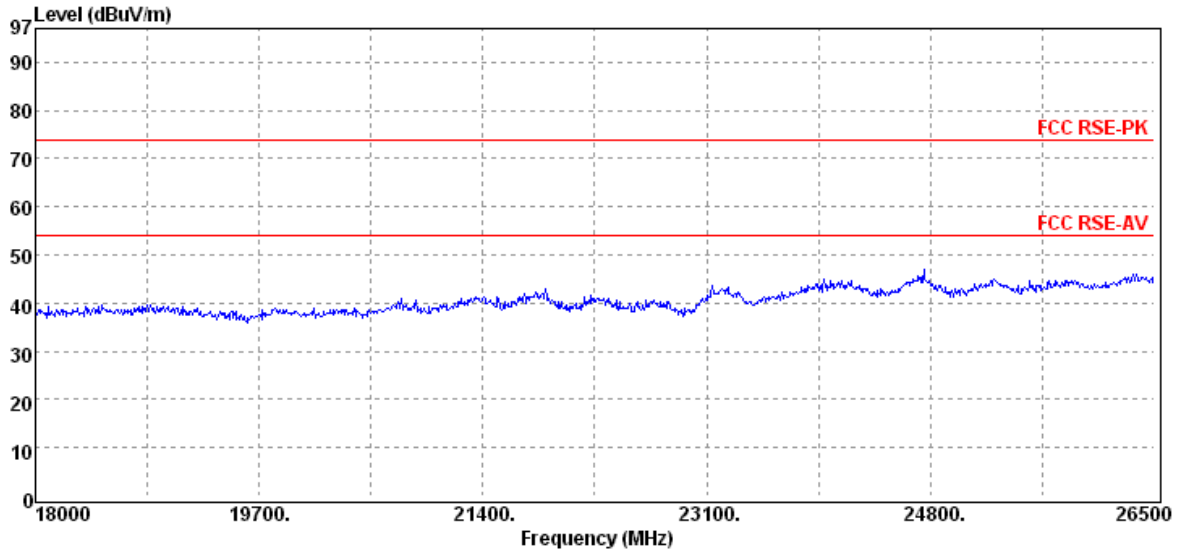
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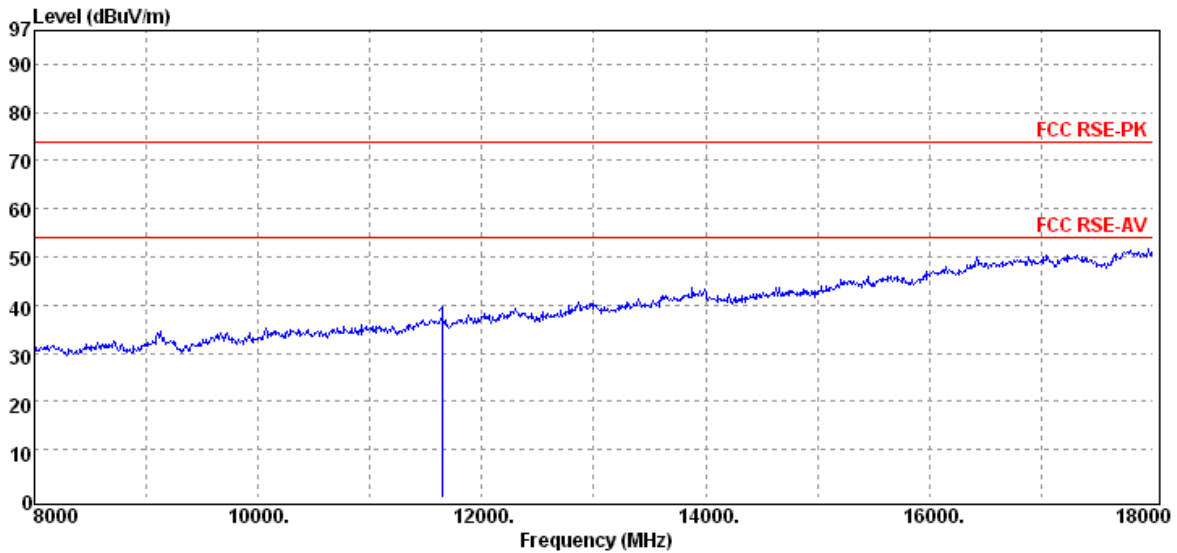
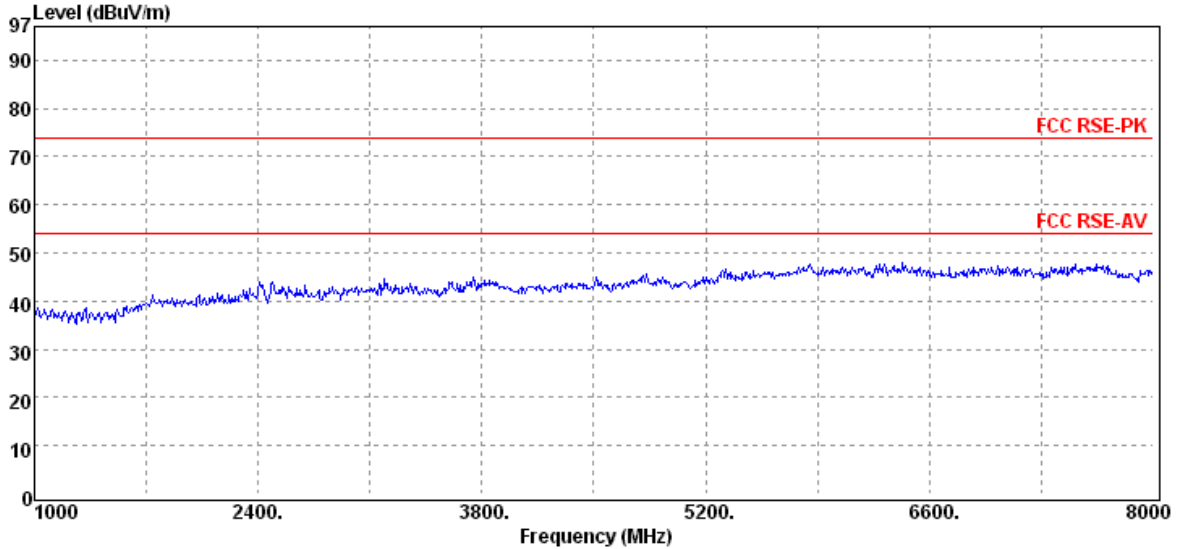
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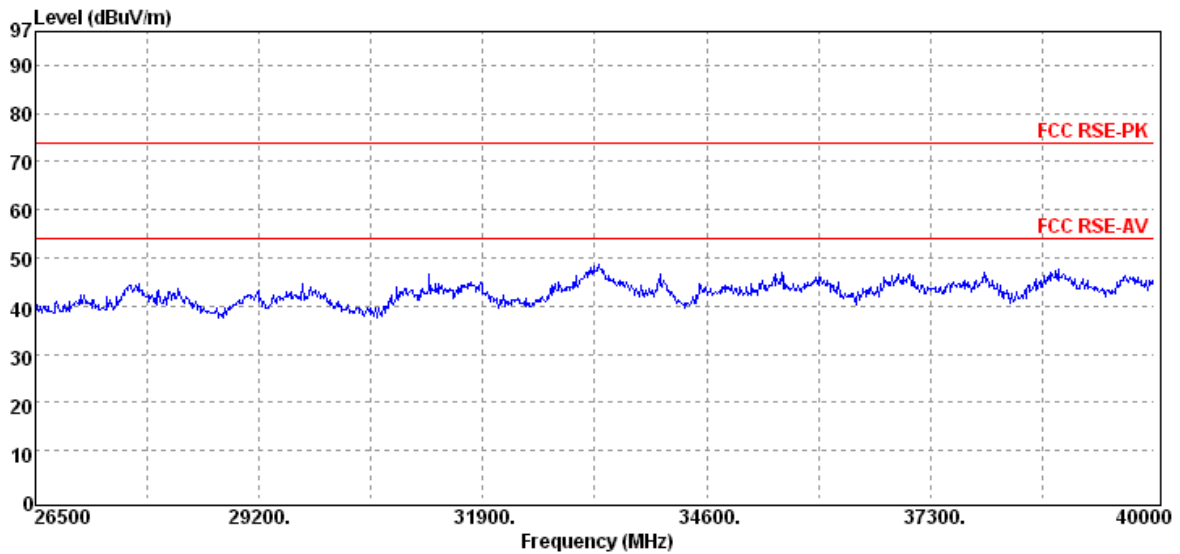
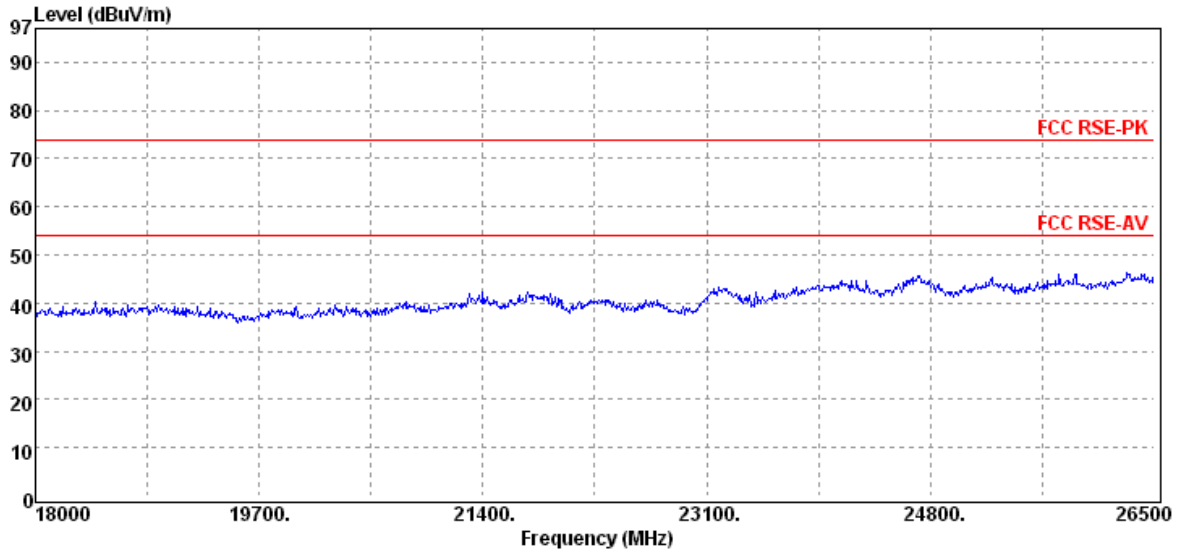
| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n20M | Test Date | :2012-11-28 |
| Fundamental Frequency | :5825 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :HORIZONTAL |



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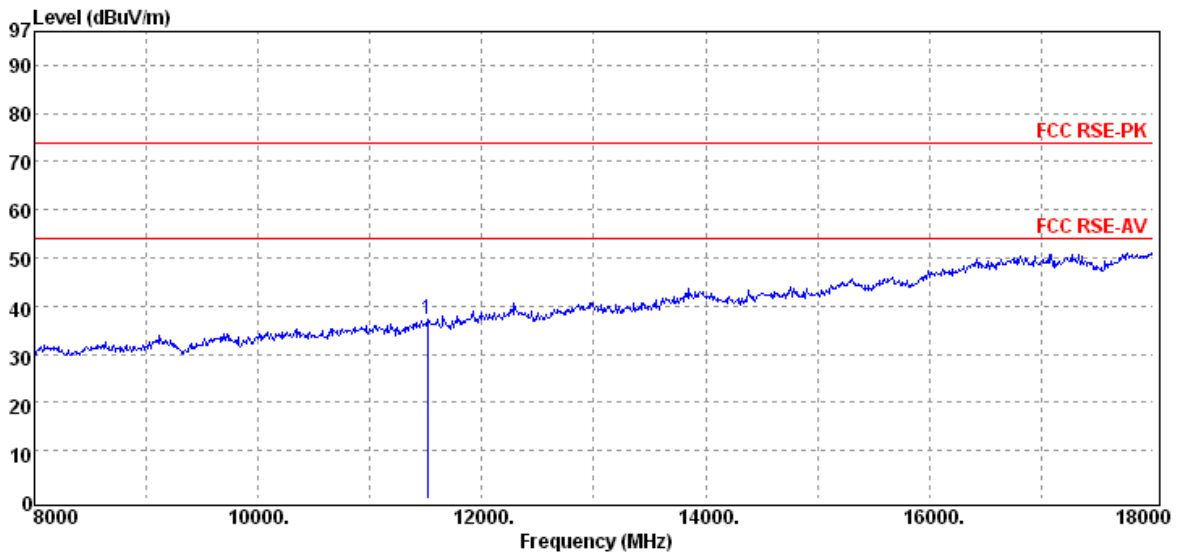
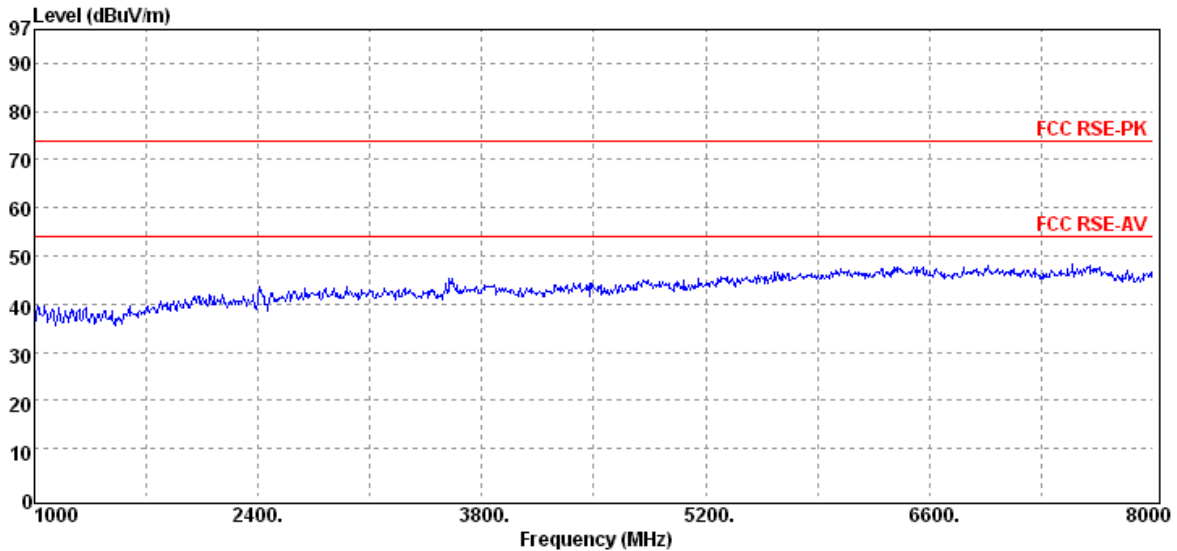
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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-11-28 |
| Fundamental Frequency | :5755 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |



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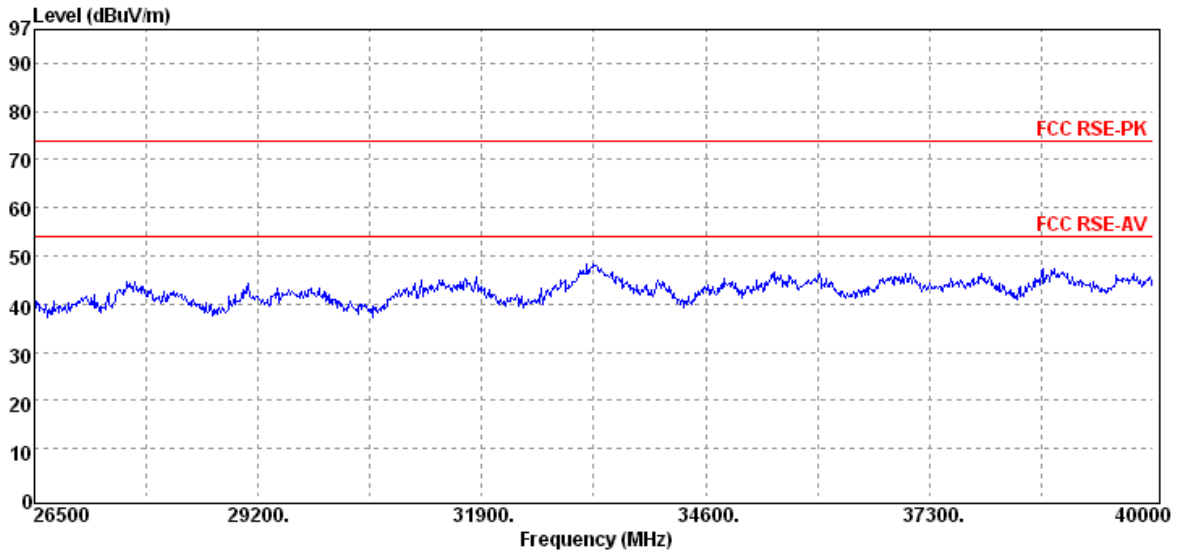
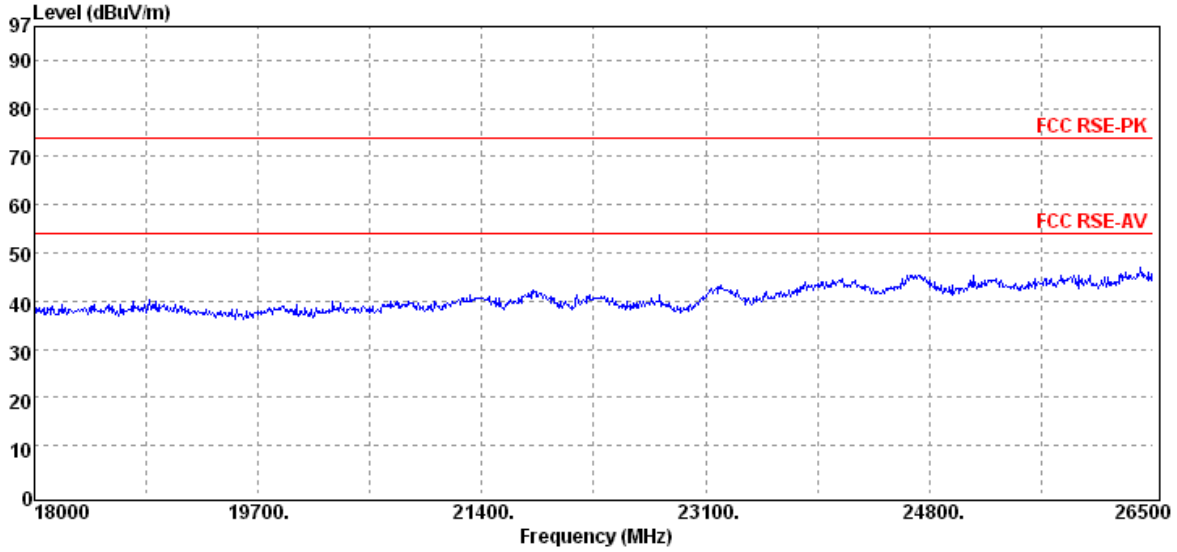
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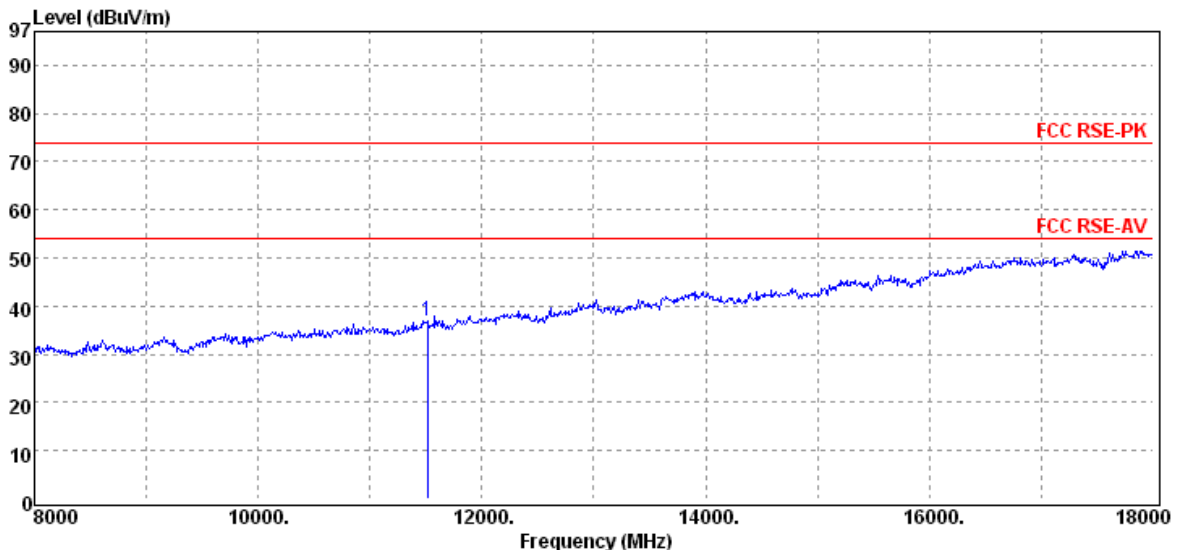
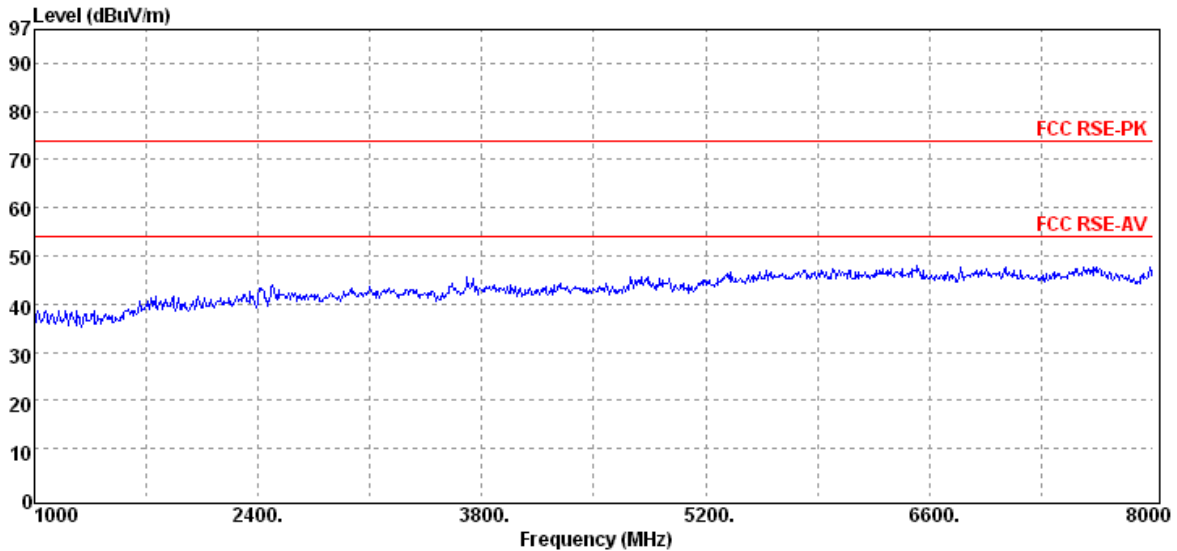
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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-11-28 |
| Fundamental Frequency | :5755 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX LOW | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :HORIZONTAL |



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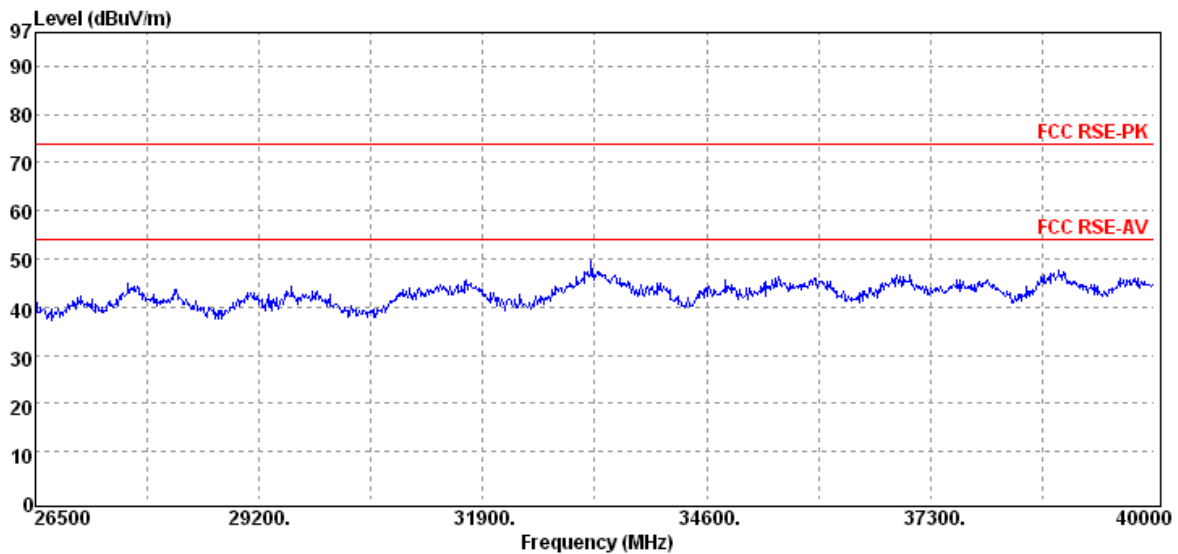
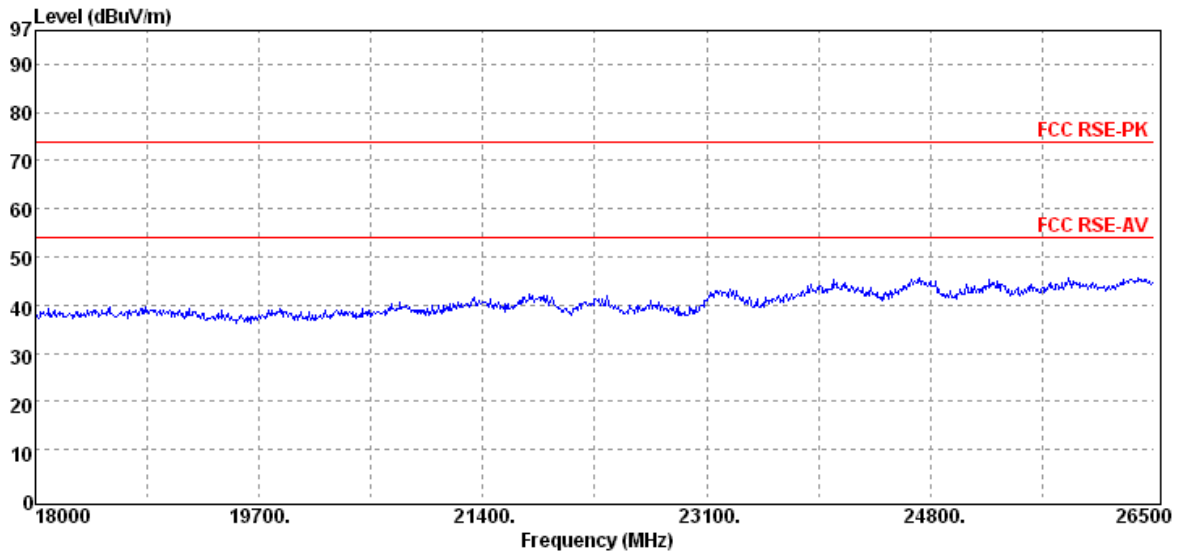
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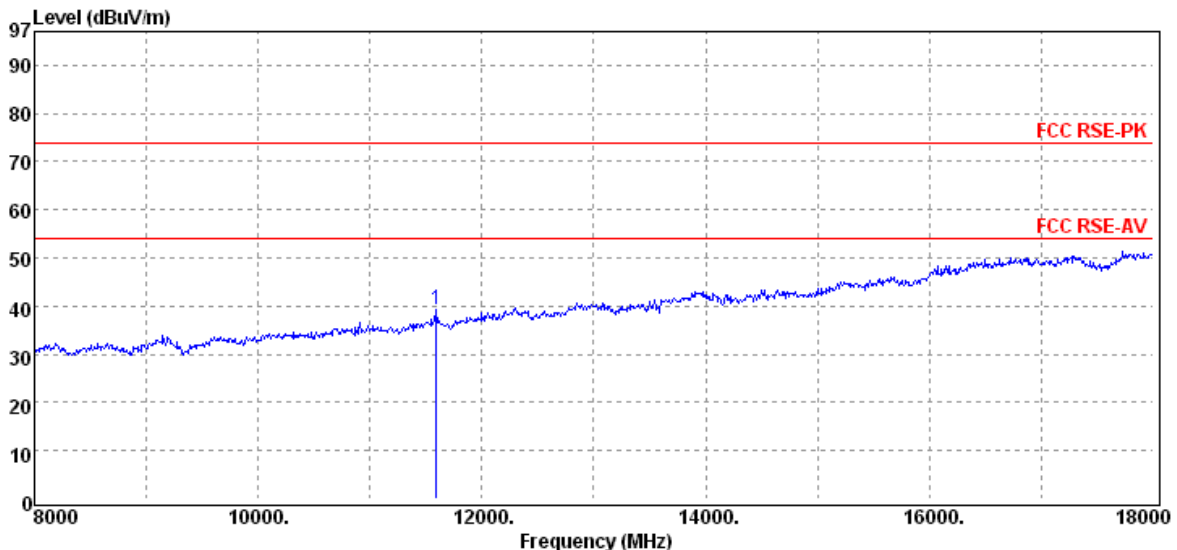
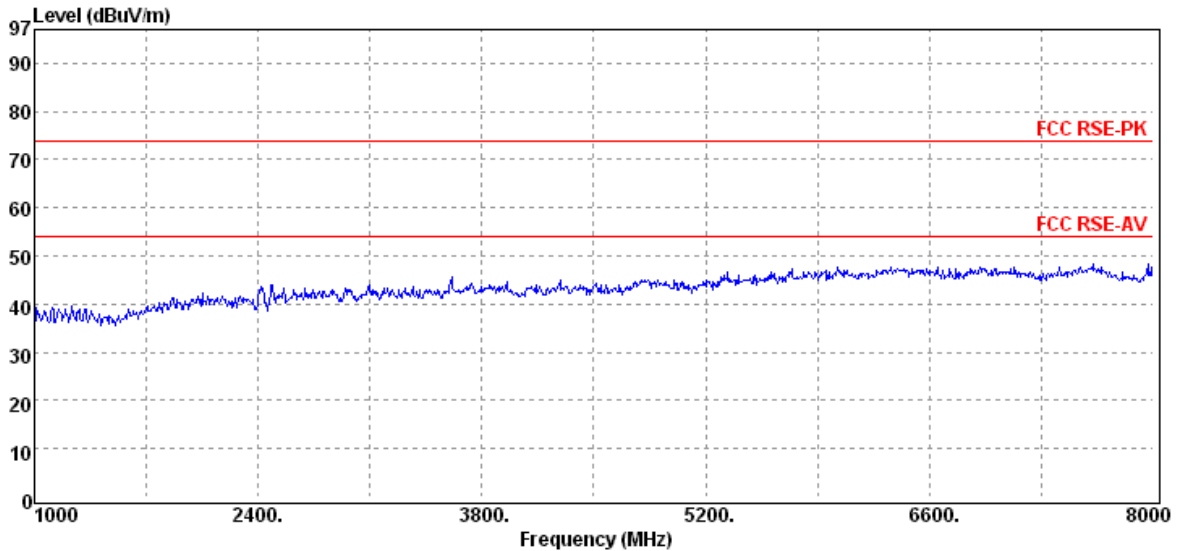
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| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-11-28 |
| Fundamental Frequency | :5795 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :VERTICAL |



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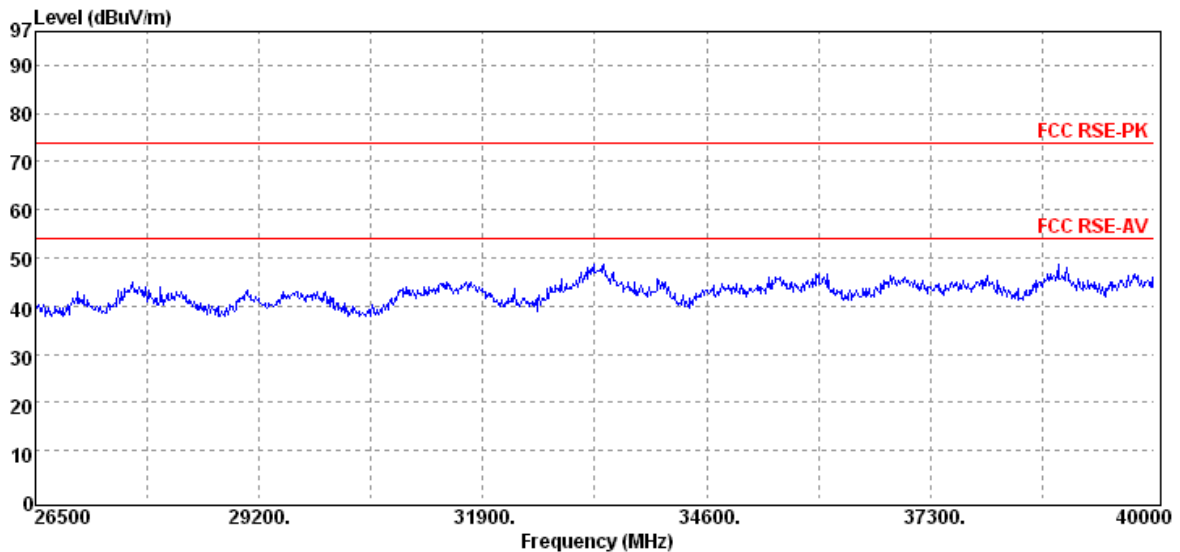
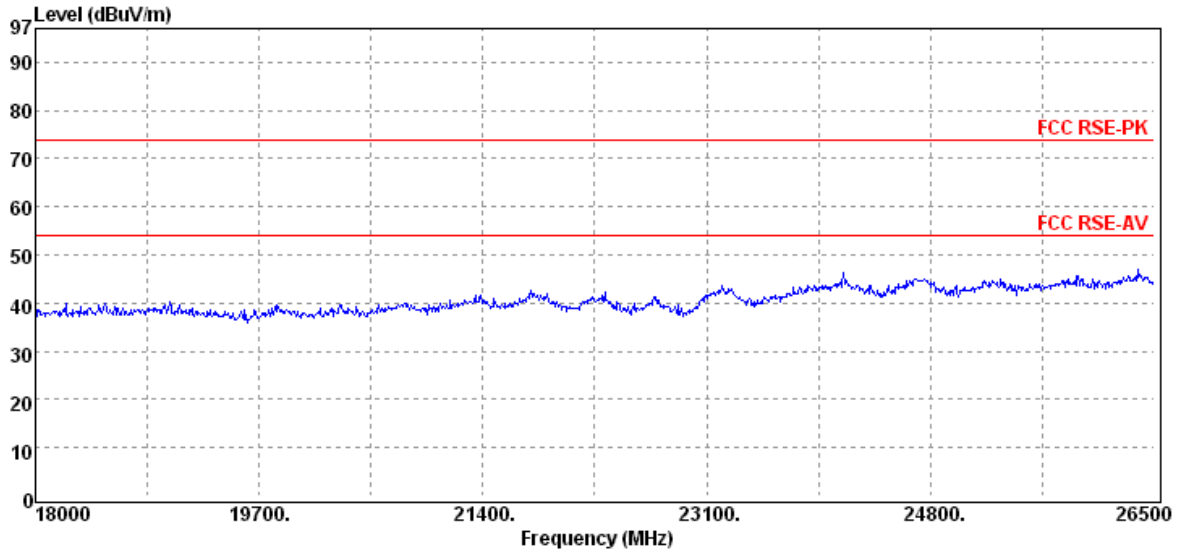
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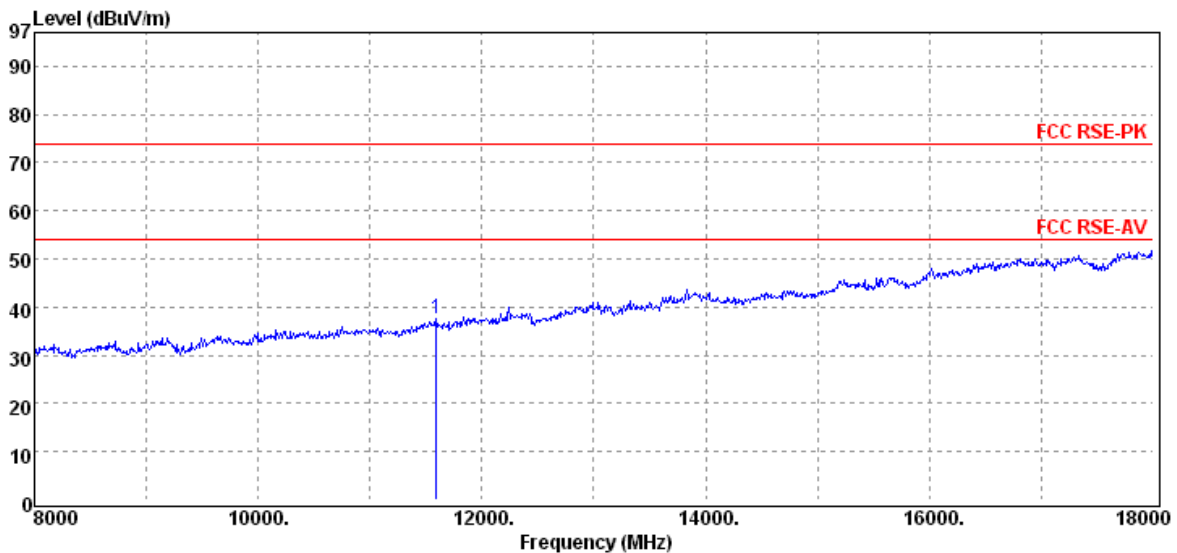
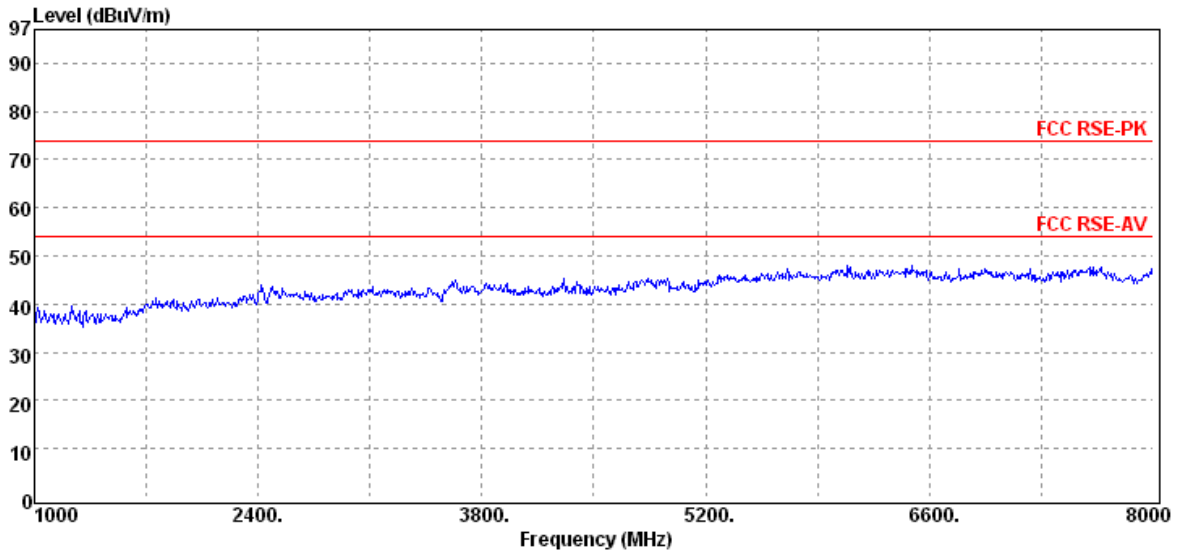
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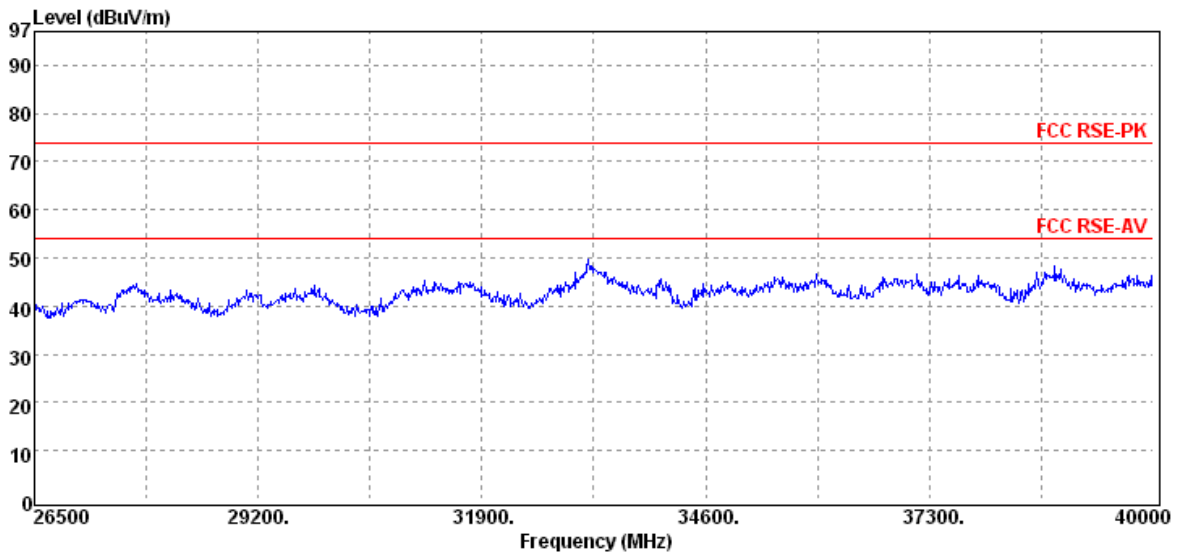
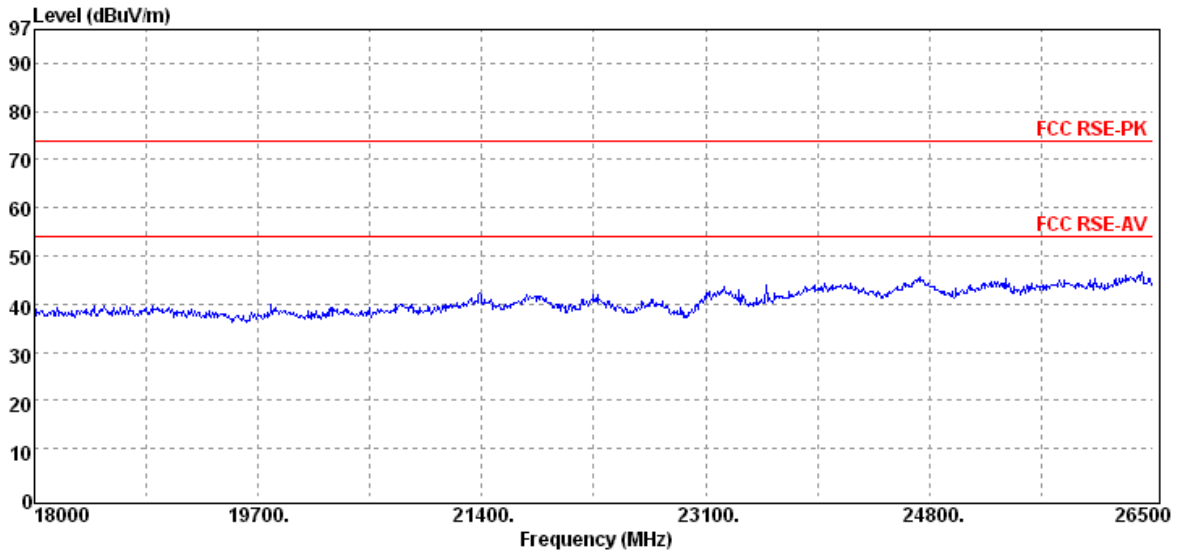
| | | | |
|-----------------------|-------------|--------------------------|-----------------|
| Operation Band | :802.11n40M | Test Date | :2012-11-28 |
| Fundamental Frequency | :5795 MHz | Temp./Humi. | :22.7deg_C/57RH |
| Operation Mode | :TX HIGH | Engineer | :Marcus |
| EUT Pol. | :E2 Plan | Measurement Antenna Pol. | :HORIZONTAL |



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