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| Applicant: | Kyocera |
| FCC ID: | V65C5120 |
| Report #: | CT-C5120-0611-R0 |

RF Emissions Test Report

FCC Part 15.247
(WLAN)

For

Kyocera Corporation
c/o Kyocera Communication Inc.

| | |
|----------|----------------------|
| Product: | Dual-Band CDMA Phone |
| Model: | C5120 |



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ATTESTATION

The tested device complies with the requirements in respect of all parameters subject to the test.

The test results and statements relate only to the items tested.

The test equipment used was suitable for the tests performed and within manufacturer's published specifications and operating parameters.

The test methods were consistent with the methods described in the relevant standards.

| | |
|-----------------------------------|--|
| Product: | Dual-Band CDMA Cellular Phone with Bluetooth & WiFi |
| Model #: | C5120 |
| FCC ID: | V65C5120 |
| Tested in accordance with: | FCC Part 15.247 |
| Test performed by: | Comptest Services LLC |
| Test Requested by: | KYOCERA Corporation C/o KYOCERA Communication Inc 8611 Balboa Avenue San Diego, CA92121 |
| Date of Test: | June 26-June 28, 2011 |

Responsible Engineer

Benjamin Nguyen

Benjamin Nguyen
Test Engineer

Reviewed and approved by:

Tammy To
Quality Manager



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1 SUMMARY OF TESTING

| Section # | Rule Part | Test Description | Verdict |
|-----------|---|---|---------|
| 6 | FCC § 15.247 a2, IC RSS-210 §A8.2 (1) | 6 dB Bandwidth | Pass |
| 7 | FCC § 15.247 b3, IC RSS-210 §8.4(4) | Output Power | Pass |
| 8 | FCC § 15.247 e, IC RSS-210 §8.2(2) | Power Spectral Density | Pass |
| 9 | FCC § 15.247 d, IC RSS-210 §A8.5 | Band-edge Compliance of Conducted Emissions | Pass |
| 10 | FCC § 15.247 d, IC RSS-210 §A8.5 | Spurious RF Conducted Emissions | Pass |
| 11 | FCC § 15.107 § 15.207, IC RSS-210 §6.6 | AC Power Line Conducted Emissions | Pass |
| 12 | FCC § 15.109, § 15.209, IC RSS-210 §A2.9(2) | Spurious Radiated Emissions | Pass |
| 13 | FCC § 2.1091/2.1093 | SAR Tests | Pass |

2 EQUIPMENT UNDER TEST INFORMATION

| | |
|--------------------------------|---|
| EUT Serial Number: | 268435457816716264 |
| Type: | [] Prototype, [X] Pre-Production, [] Production |
| Equipment Category: | Portable |
| TX Frequency (MHz): | 2412 to 2462 |
| Modulation Technology: | DSSS, OFDM |
| Modulation: | DSSS: CCK, DQPSK, DBPSK OFDM: 64QAM, 16QAM, QPSK, BPSK |
| Channel Numbers: | 11 |
| Mode/Data Rate: | <input checked="" type="checkbox"/> 802.11b: 11/5/2/1 Mbps <input checked="" type="checkbox"/> 802.11g: 54/48/36/24/18/12/9/6 Mbps <input checked="" type="checkbox"/> 802.11n: 7/6/5/4/3/2/1/0 MCS |
| Max. Output Power (dBm) | 22.42 |
| WLAN Antenna: | Internal |
| Antenna Gain (dBi): | -1.0 (Peak) |

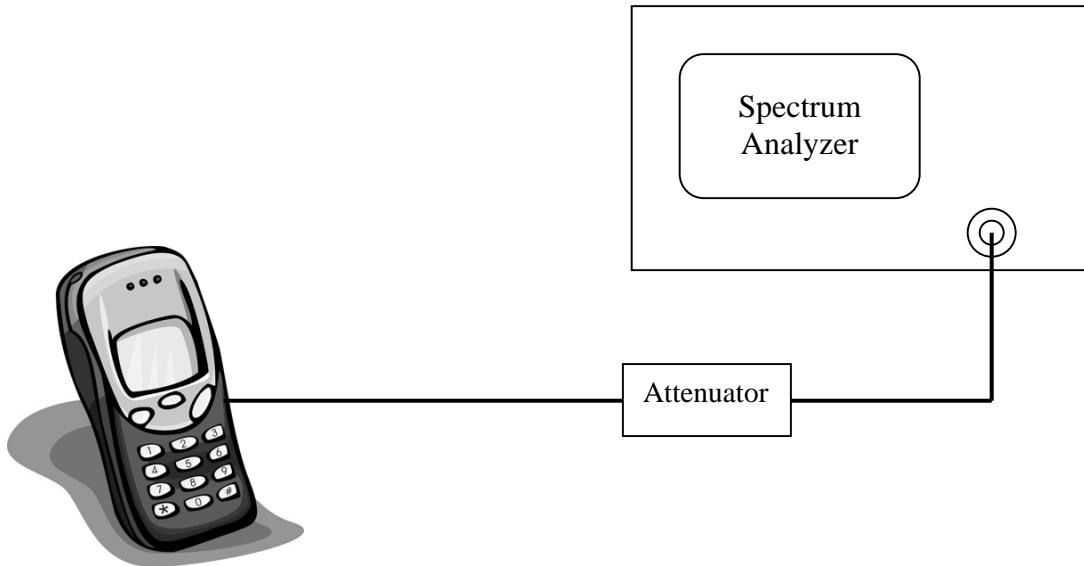


3 TEST FACILITIES

The test sites and measurement facilities used to collect data are located at 8611 Balboa Ave., San Diego, CA 92123, USA

4 TEST SETUP

The WLAN RF output of the equipment under test (EUT) was connected to the input of the spectrum analyzer through a RF cable with a specialized RF connector. The amplitude of the spectrum analyzer is corrected for the cable insertion loss and any other applicable losses. A fully charged battery was used as power supply voltage.





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5 ANTENNA REQUIREMENTS

5.1 Requirements

FCC: § 15.203

IC: RSS-210

- 1) For intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.
- 2) According to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

5.2 Antenna Information

- a) The Antennas used in this product are permanently attached
- b) There are no provisions for connection to an external antenna

This phone unit complies with the requirement of 15.203



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6 6dB BANDWIDTH

6.1 Test Configuration

FCC: § 15.247 a2

IC: RSS-210 §A8.2 (a)

The RF output port of the EUT was directly connected to the input of the spectrum analyzer with sufficient attenuation. Subsequently, the low, mid and high channels of transmitter were enabled separately to investigate the 6 dB-bandwidth for each channel. A fully charged battery was used as supply voltage.

Spectrum Analyzer Parameters:

RBW = 100kHz, VBW = 300kHz, Span=20MHz, Sweep Time = Auto

Frequencies of Interest: Spectrum was investigated from 2412 MHz – 2462 MHz.

6.2 Results and Limits:

| Figure | 802.11 Mode | Channel | Frequency | Data Rate (Mbps) | Measured BW (MHz) |
|--------|-------------|---------|-----------|------------------|-------------------|
| 6-1a | b | 1 | 2412 | 1 | 7.55 |
| 6-1b | | 6 | 2437 | 1 | 7.60 |
| 6-1c | | 11 | 2462 | 1 | 7.00 |
| 6-2a | g | 1 | 2412 | 6 | 15.15 |
| 6-2b | | 6 | 2437 | 6 | 15.55 |
| 6-2c | | 11 | 2462 | 6 | 15.50 |
| 6-3a | n | 1 | 2412 | 6.5/7.2 (MSC0) | 15.10 |
| 6-3b | | 6 | 2437 | 6.5/7.2 (MSC0) | 15.25 |
| 6-3c | | 11 | 2462 | 6.5/7.2 (MSC0) | 16.05 |

Limit: >= 500kHz



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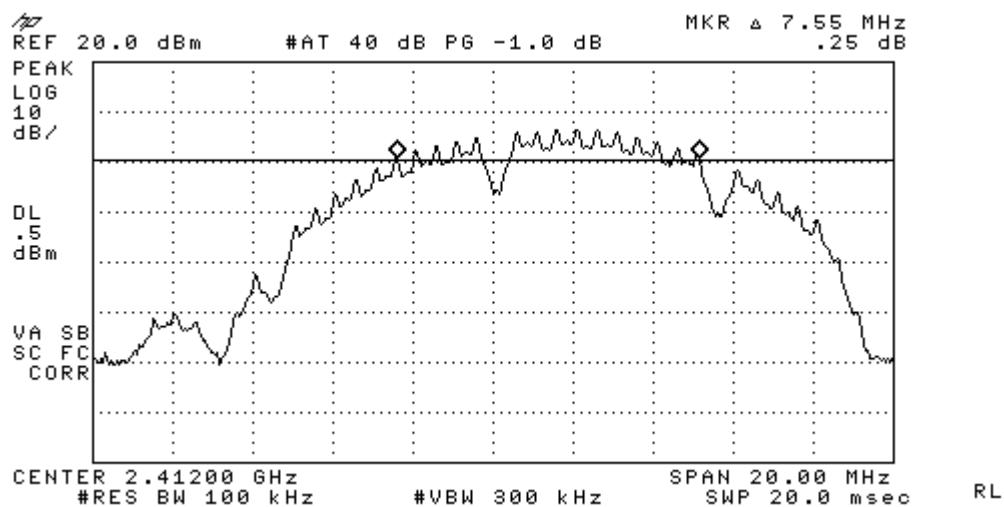


Figure 6-1a: 6 dB Bandwidth, 802.11b 1Mbps, Ch 1.

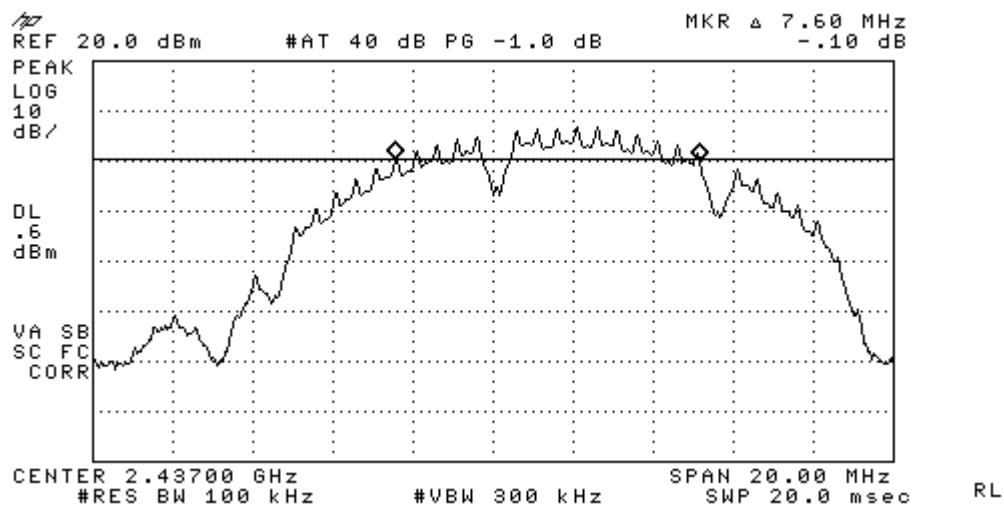


Figure 6-1b: 6 dB Bandwidth, 802.11b 1Mbps, Ch 6.

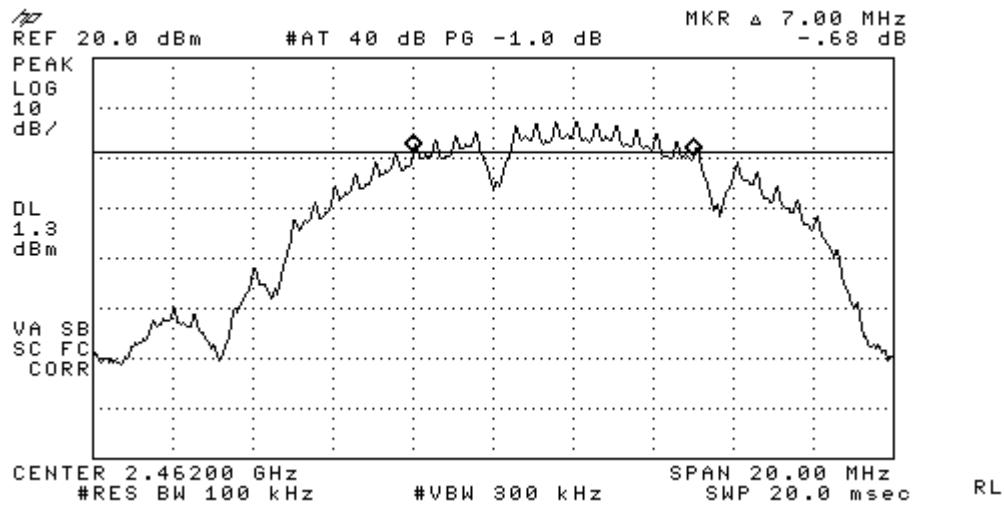


Figure 6-1c: 6 dB Bandwidth, 802.11b 1Mbps, Ch 11.



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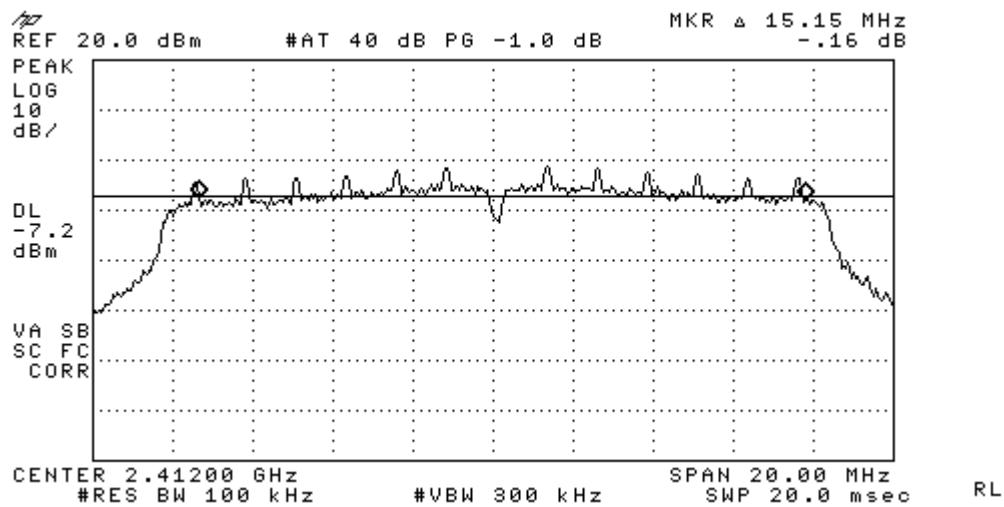


Figure 6-2a: 6 dB Bandwidth, 802.11g 6Mbps, Ch 1.

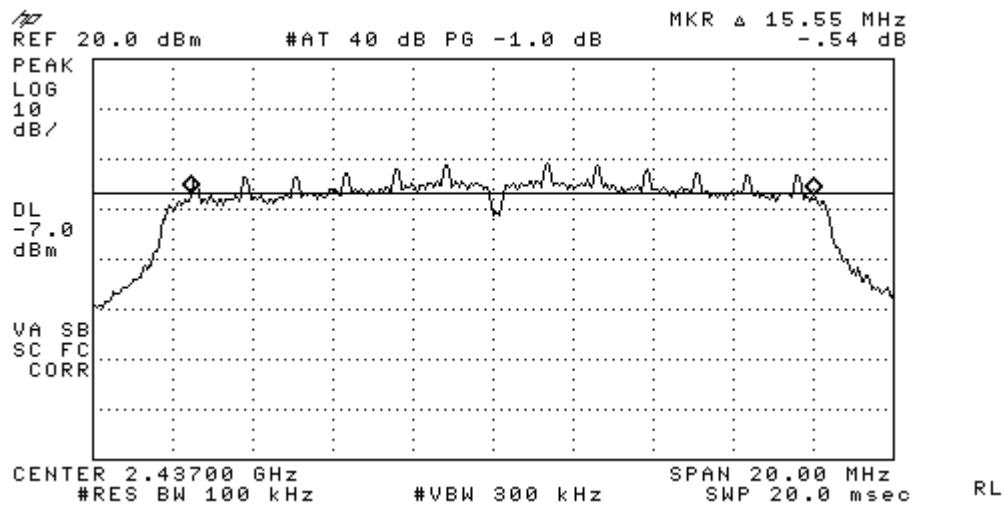


Figure 6-2b: 6 dB Bandwidth, 802.11g 6Mbps, Ch 6.

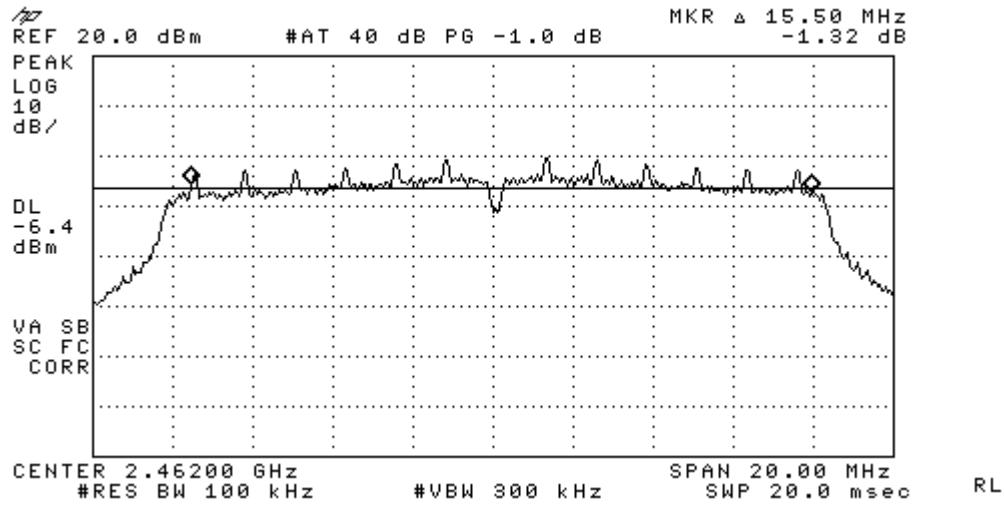


Figure 6-2c: 6 dB Bandwidth, 802.11g 6Mbps, Ch 11.



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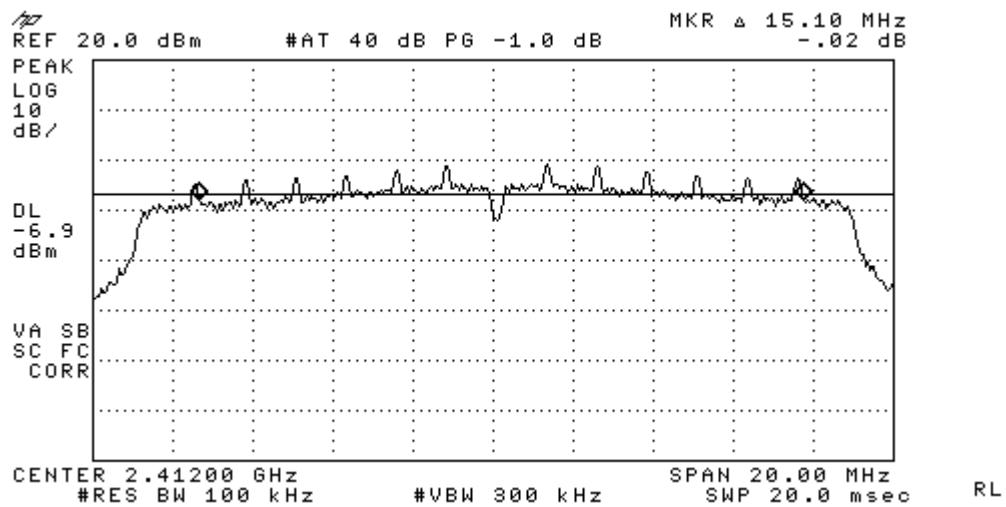


Figure 6-3a: 6 dB Bandwidth, 802.11n MSC0, Ch 1.

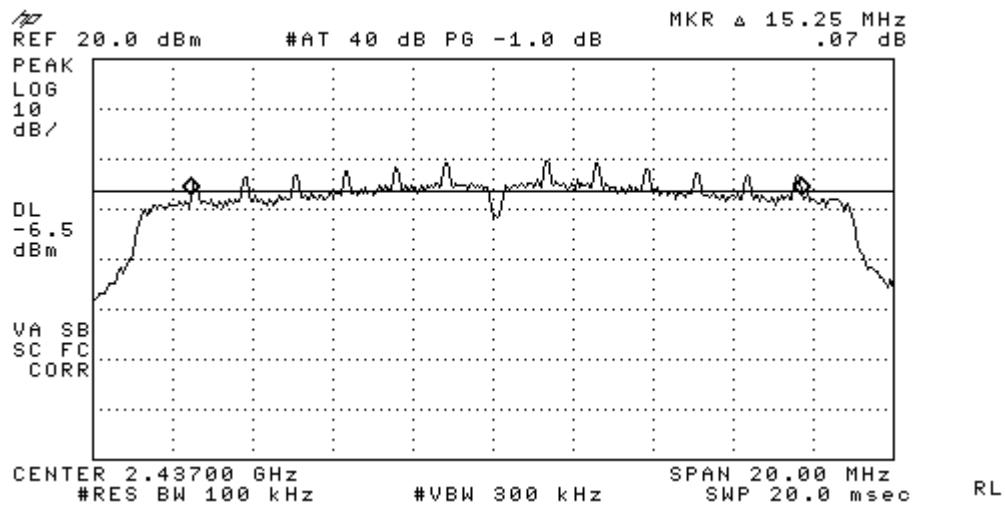


Figure 6-3b: 6 dB Bandwidth, 802.11n MSC0, Ch 6.

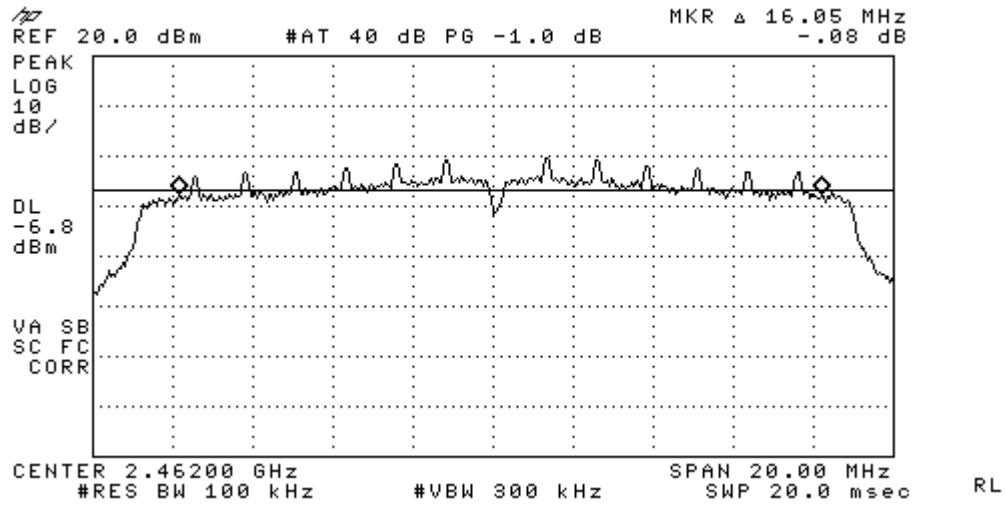


Figure 6-3c: 6 dB Bandwidth, 802.11n MSC0, Ch 11.



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7 Peak OUTPUT POWER

7.1 Test Configuration

FCC: § 15.247 b3

IC: RSS-210 §8.4(4)

The RF output port of the EUT was directly connected to the input of the spectrum analyzer with sufficient attenuation. Subsequently, the low, mid and high channels of transmitter were enabled separately to investigate the peak output power for each channel. A fully charged battery was used as supply voltage.

Spectrum Analyzer Parameters:

RBW = 1MHz, VBW = 3MHz, Span=40MHz, Sweep Time = Auto

Frequencies of Interest: Spectrum was investigated from 2412 MHz – 2462 MHz.

7.2 Maximum Peak Output Power Results and Limits

| Mode | Data Rate (Mbps) | CONDUCTED POWER (dBm) | | |
|---------|---------------------|-----------------------|-------------------|-------------------|
| | | Ch 01 2412 MHz | Ch 06 2437 MHz | Ch 11 2462 MHz |
| 802.11b | 1 | 19.04 | 17.84 | 18.16 |
| | 2 | 17.78 | 18.08 | 18.59 |
| | 5.5 | 18.83 | 19.40 | 19.90 |
| | 11 | 22.42 | 21.09 | 21.41 |
| 802.11g | 6 | 15.89 | 17.08 | 17.78 |
| | 9 | 15.94 | 17.03 | 18.05 |
| | 12 | 16.05 | 17.19 | 17.96 |
| | 18 | 16.89 | 18.00 | 17.90 |
| | 24 | 17.42 | 17.92 | 18.03 |
| | 36 | 17.39 | 17.99 | 18.00 |
| | 48 | 17.44 | 17.61 | 18.07 |
| | 54 | 17.46 | 18.00 | 18.07 |
| 802.11n | MCS0 | 15.71 | 16.22 | 16.55 |
| | MCS1 | 15.88 | 16.25 | 16.70 |
| | MCS2 | 15.72 | 16.20 | 16.59 |
| | MCS3 | 16.08 | 16.21 | 16.71 |
| | MCS4 | 16.02 | 16.23 | 16.72 |
| | MCS5 | 16.05 | 16.34 | 16.62 |
| | MCS6 | 16.08 | 16.25 | 16.71 |
| | MCS7 | 16.20 | 16.35 | 16.79 |

Limit: < 30dBm (1W), for Max. antenna gain =< 6dBi



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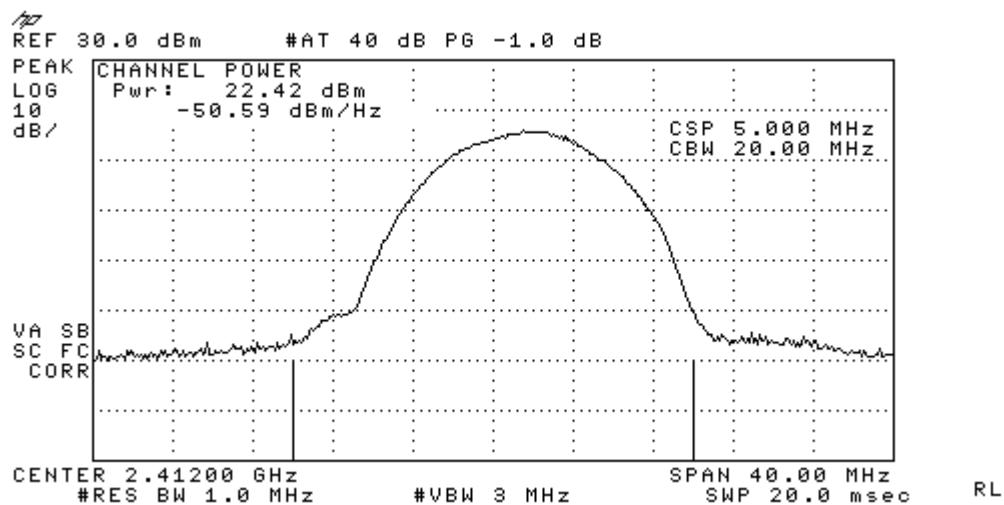


Figure 7-1: Output Power 802.11b, 11Mbps, Ch 1

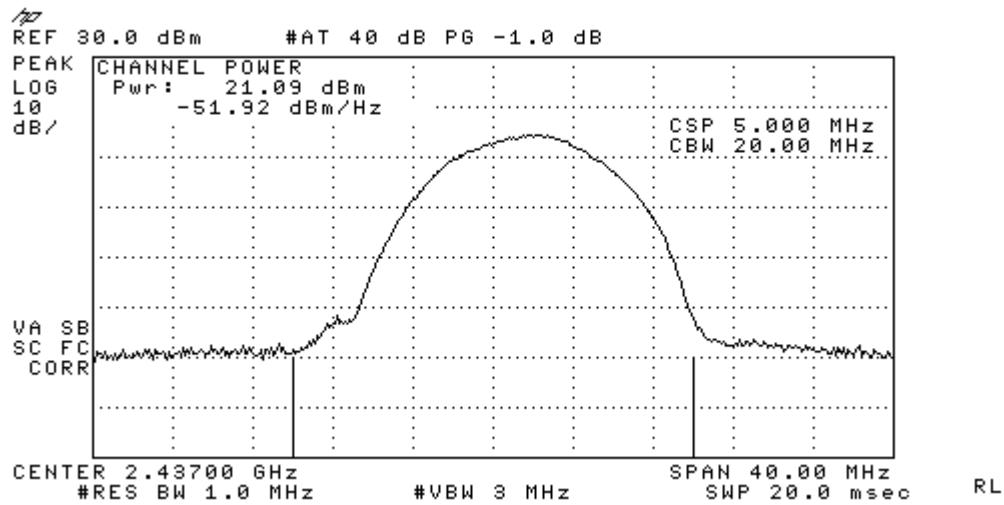


Figure 7-2: Output Power 802.11b, 11Mbps, Ch 6

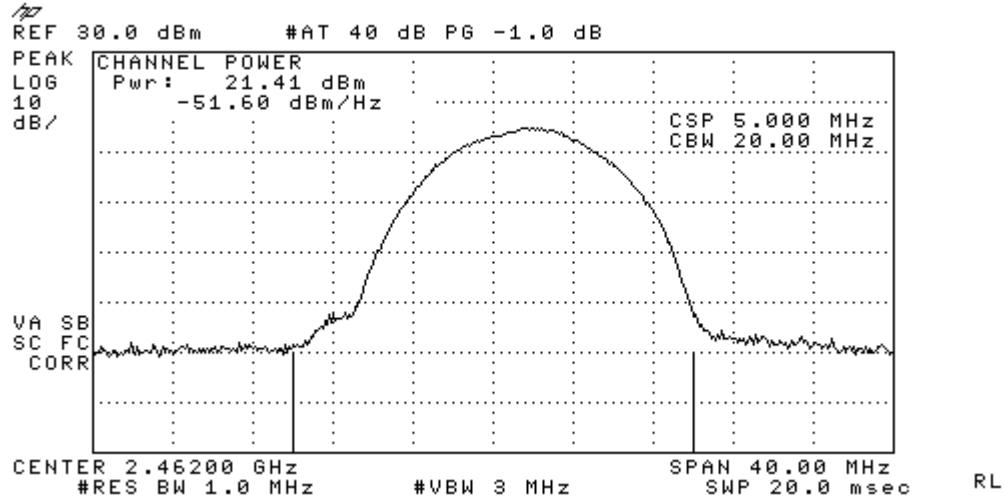


Figure 7-3: Output Power 802.11b, 11Mbps, Ch 11



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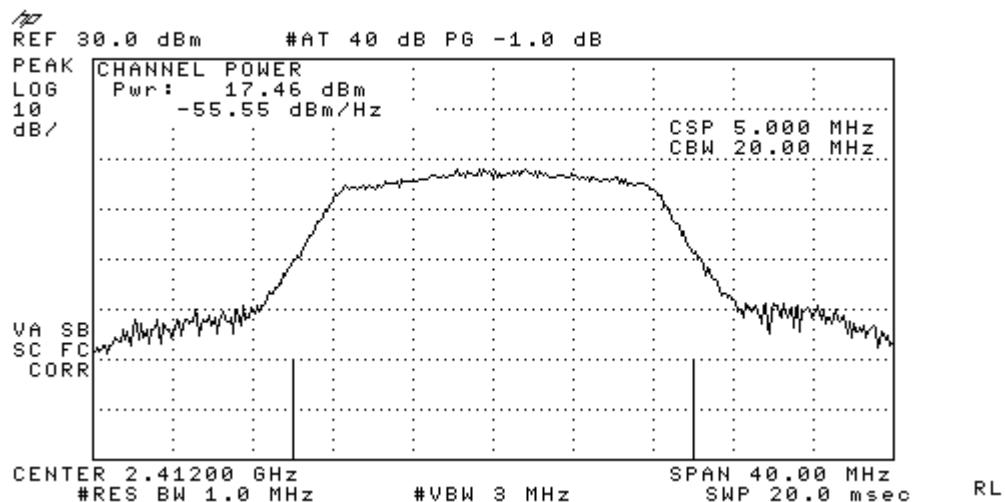


Figure 7-4: Output Power 802.11g, 6Mbps, Ch 1

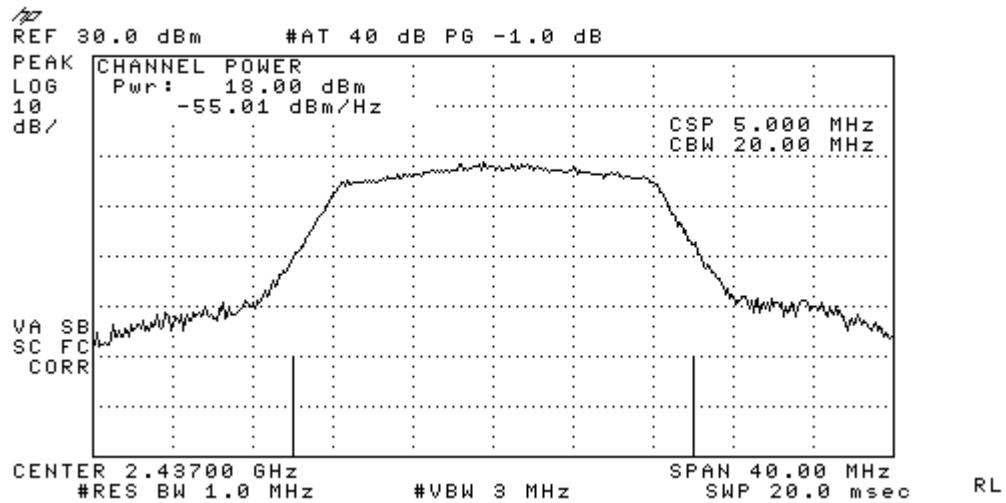


Figure 7-5: Output Power 802.11g, 6Mbps, Ch 6

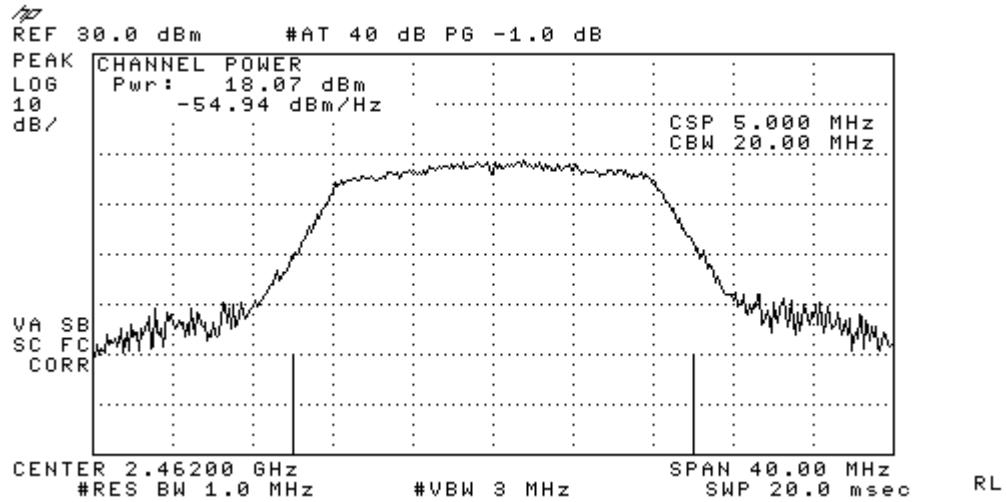


Figure 7-6: Output Power 802.11g, 6 Mbps, Ch 11



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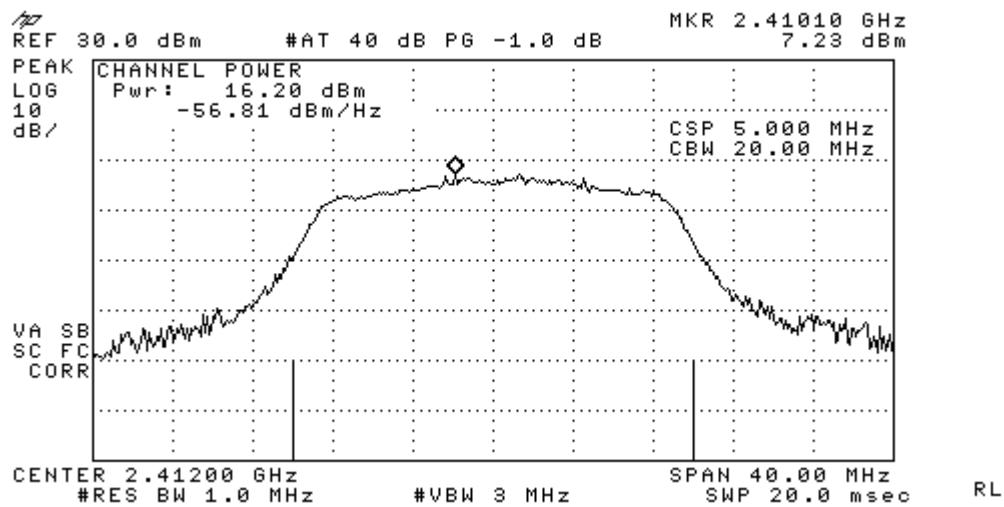


Figure 7-7: Output Power 802.11n, MSC7, Ch 1

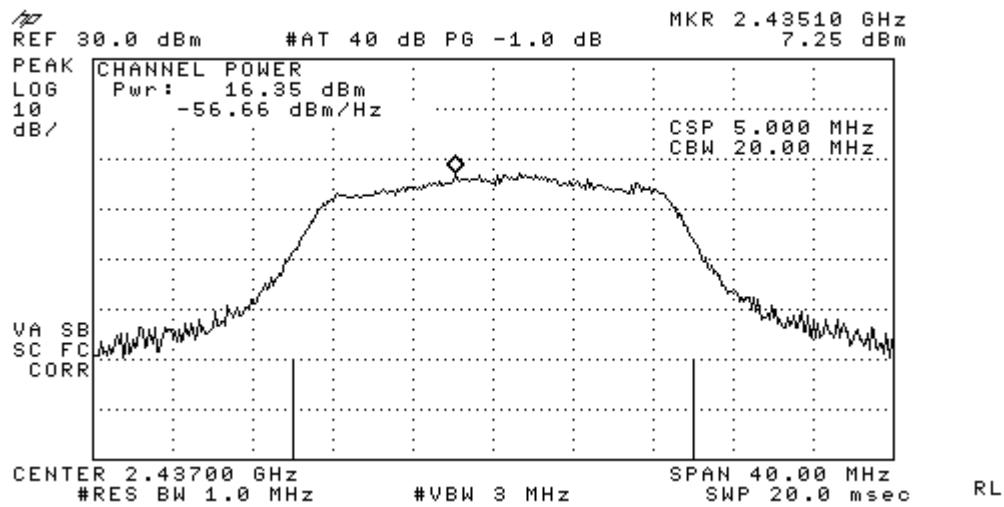


Figure 7-8: Output Power 802.11n, MSC7, Ch 6

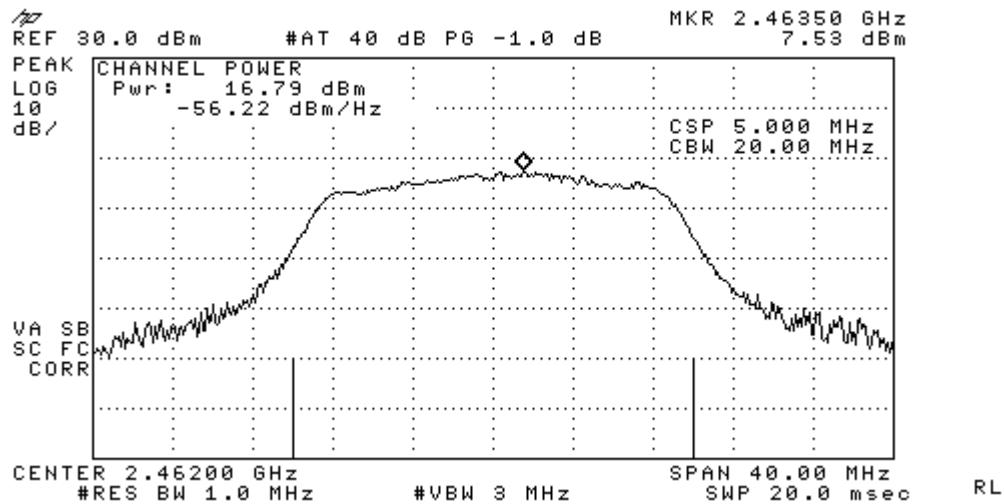


Figure 7-9: Output Power 802.11n, MSC7, Ch 11



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| Applicant: | Kyocera |
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8 POWER SPECTRAL DENSITY (PSD)

8.1 Test Configuration

FCC: § 15.247 e

IC: RSS-210 §A8.2(2)

The RF output port of the EUT was directly connected to the input of the spectrum analyzer with sufficient attenuation. Subsequently, the transmitter was set in transmission mode at appropriate frequency. A fully charged battery was used as supply voltage.

Spectrum Analyzer Parameters:

RBW = 3kHz, VBW = 10kHz, Span=300kHz, Sweep Time = 100sec, DL=8dBm

Frequencies of Interest: Spectrum was investigated from 2412 MHz – 2462 MHz.

8.2 Results and Limits:

| Figure | Mode | Channel | Frequency | Measured PSD (dBm) |
|--------|----------|---------|-----------|--------------------|
| 8-1a | 802.11 b | 1 | 2412 | -8.00 |
| 8-1b | | 6 | 2437 | -8.74 |
| 8-1c | | 11 | 2462 | -7.73 |
| 8-2a | 802.11 g | 1 | 2412 | -23.48 |
| 8-2b | | 6 | 2437 | -23.22 |
| 8-2c | | 11 | 2462 | -21.89 |
| 8-3a | 802.11 n | 1 | 2412 | -24.51 |
| 8-3b | | 6 | 2437 | -24.41 |
| 8-3c | | 11 | 2462 | -24.11 |

Limit: < 8dBm in any 3 kHz band



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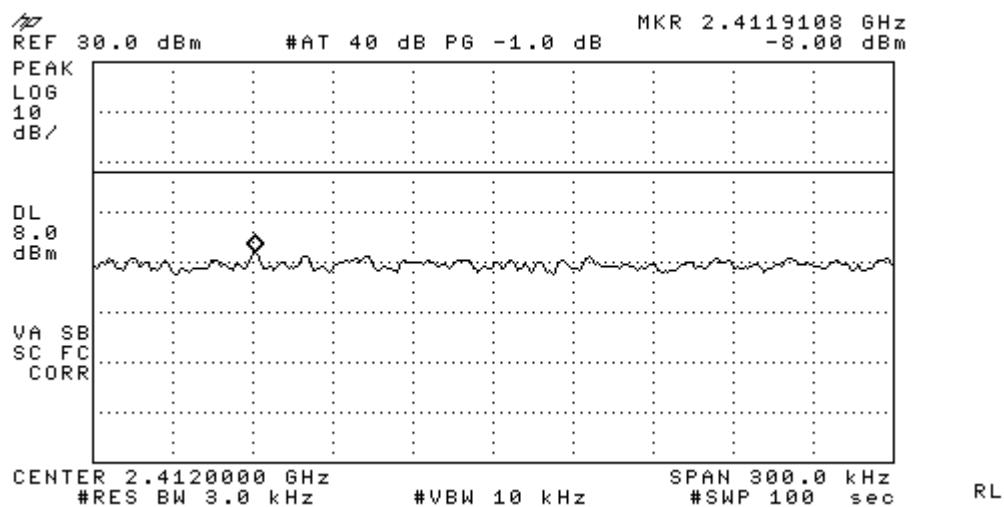


Figure 8-1a: Power Spectral Density, 802.11b, Ch 1.

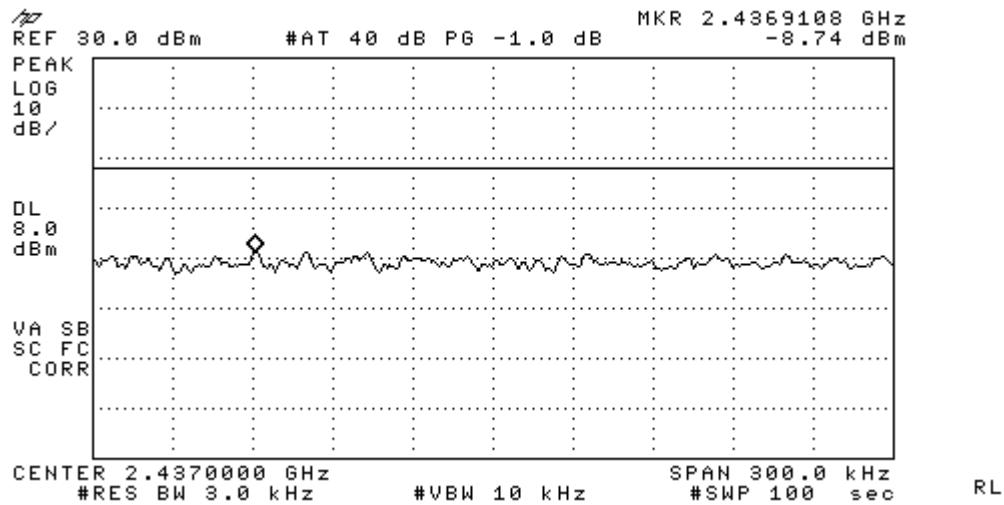


Figure 8-1b: Power Spectral Density, 802.11b, Ch 6.

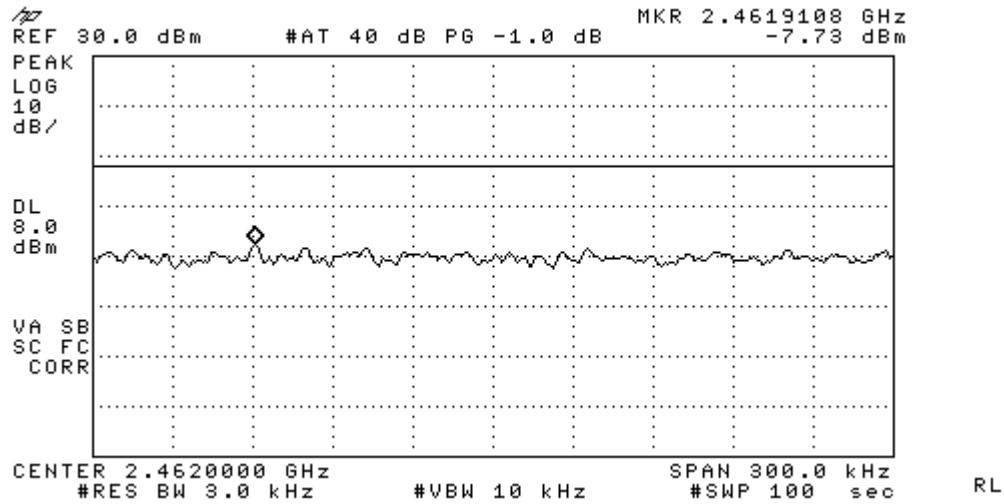


Figure 8-1c: Power Spectral Density, 802.11b, Ch 11.



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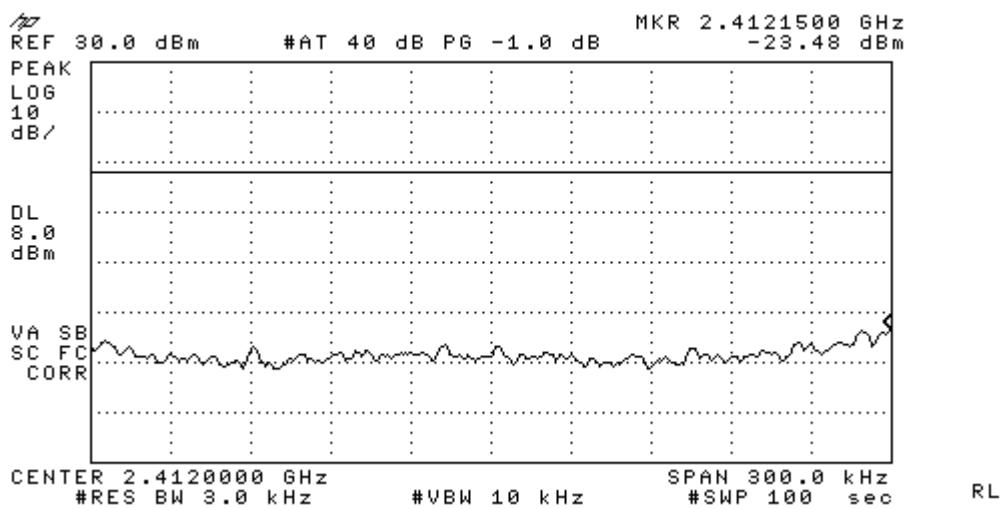


Figure 8-2a: Power Spectral Density, 802.11g, Ch 1.

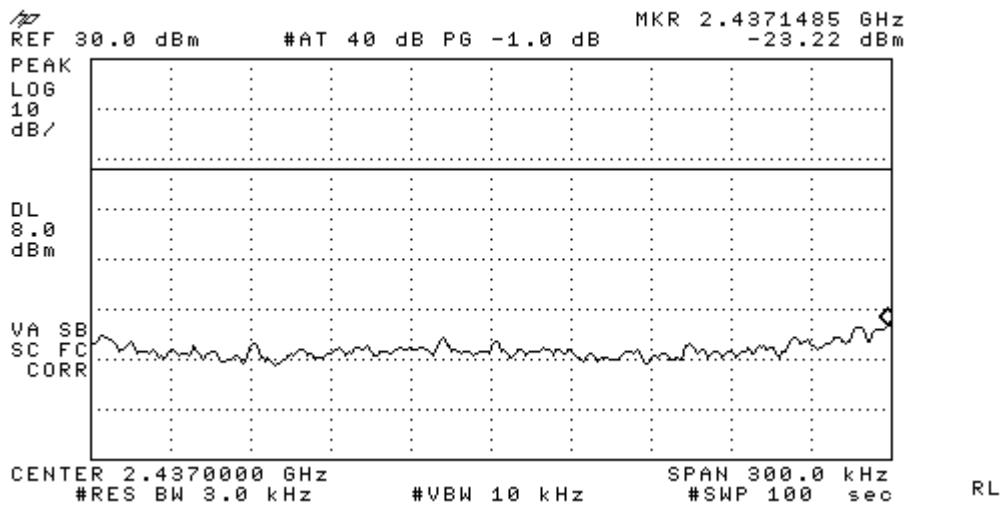


Figure 8-2b: Power Spectral Density, 802.11g, Ch 6.

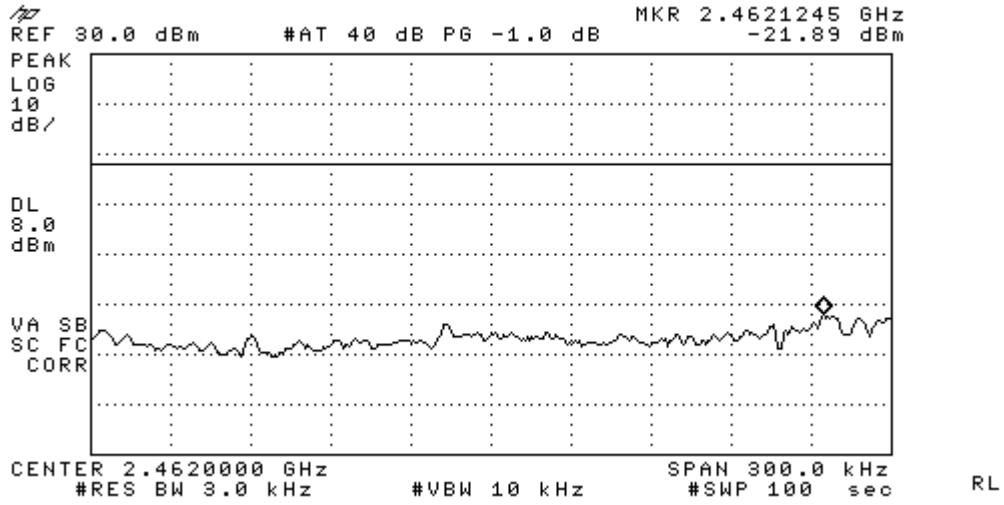


Figure 8-2c: Power Spectral Density, 802.11g, Ch 11.



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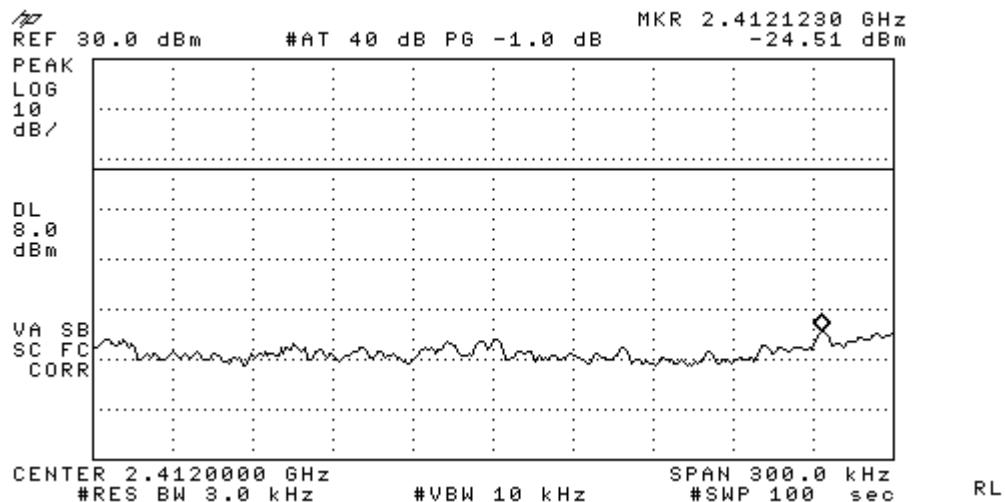


Figure 8-3a: Power Spectral Density, 802.11n, Ch 1.

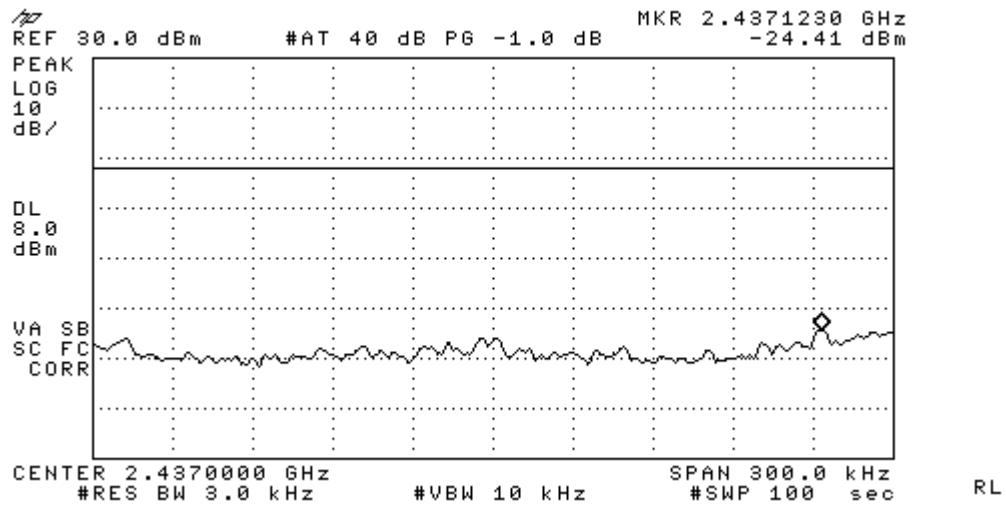


Figure 8-3b: Power Spectral Density, 802.11n, Ch 6.

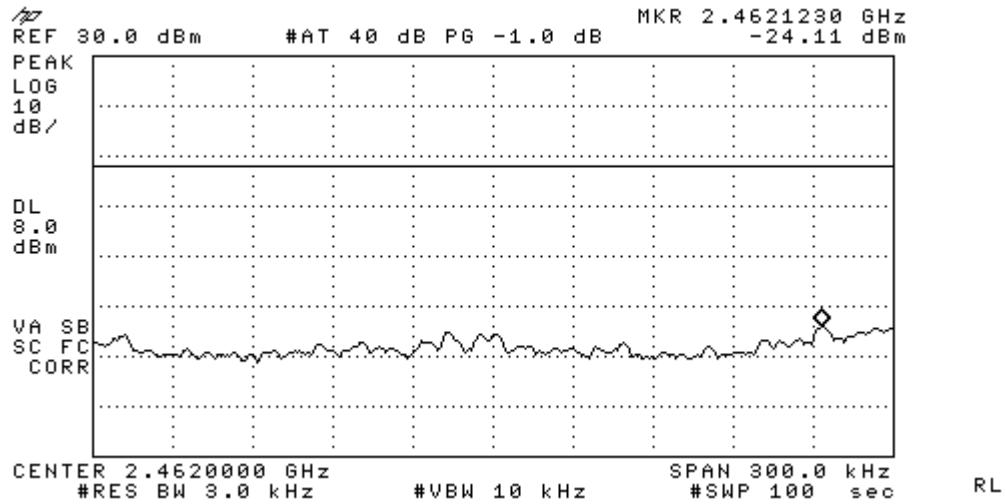


Figure 8-3c: Power Spectral Density, 802.11n, Ch 11.

9 BANDEDGE

9.1 Test Configuration

| | |
|------|---------------|
| FCC: | § 15.247 d |
| IC: | RSS-210 §A8.5 |

The RF output port of the EUT was directly connected to the input of the spectrum analyzer with sufficient attenuation. Subsequently, the low and high channels of transmitter were enabled separately to investigate the band-edge compliance of conducted emissions. To ensure the band-edge compliance when the channels are hopping, measurements were also conducted at low and high channels in this mode. A fully charged battery was used as supply voltage.

Spectrum Analyzer Parameters:

RBW = 100kHz, VBW = 300kHz, Span=50MHz, Sweep Time = Auto, DL=-20dBc
 CF=2390MHz or 2483.5MHz

Frequencies of Interest: Spectrum was investigated from 2412 MHz – 2462 MHz.

9.2 Results: Bandedge

| Figure | 802.11 Mode | Channel | Frequency | Plot Description |
|--------|------------------|---------|-----------|-------------------|
| 9-1a | b (1Mbps) | 1 | 2412 | Low ch band edge |
| 9-1b | | 11 | 2462 | High ch band edge |
| 9-2a | g (6Mbps) | 1 | 2412 | Low ch band edge |
| 9-2b | | 11 | 2462 | High ch band edge |
| 9-3a | n (6.5/7.2 Mbps) | 1 | 2412 | Low ch band edge |
| 9-3b | | 11 | 2462 | High ch band edge |



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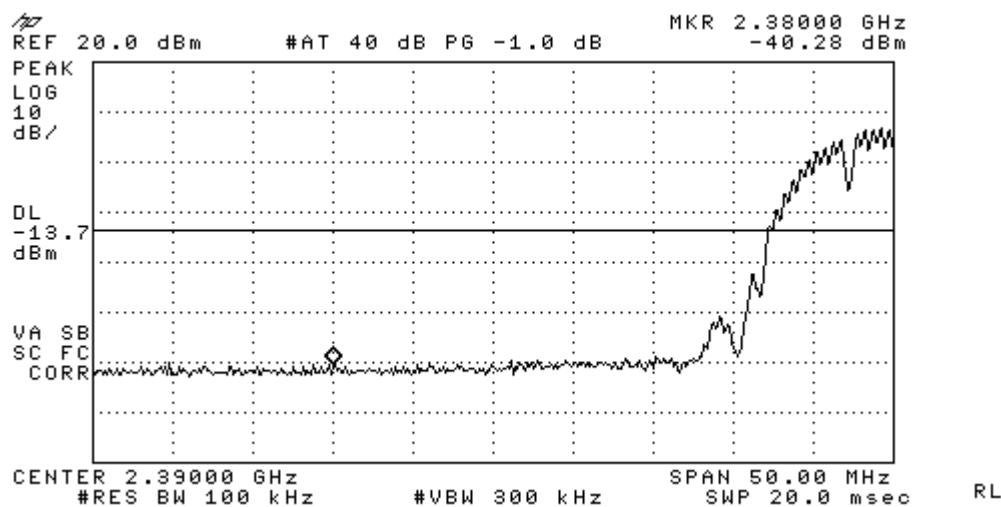


Figure 9-1a: Low band edge, 802.11b, ch1

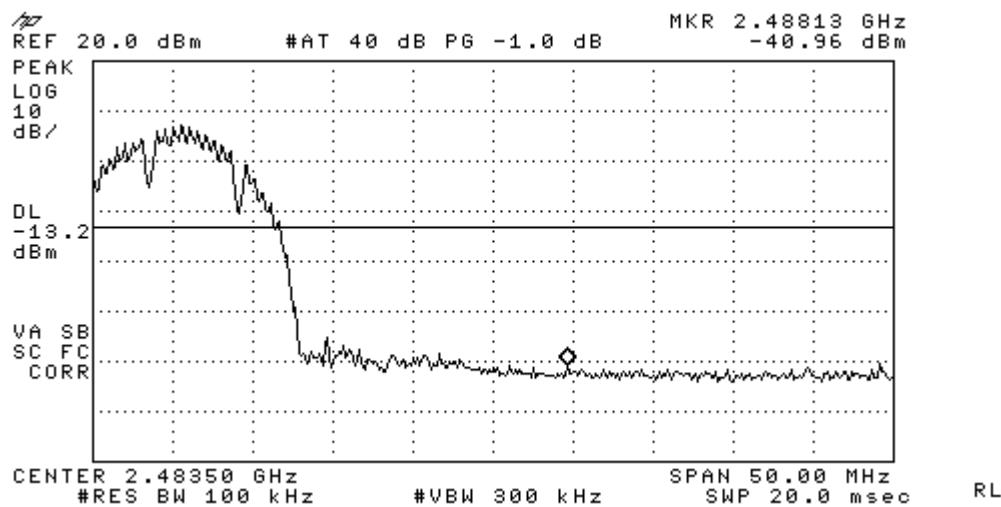


Figure 9-1b: High band edge, 802.11b, ch11.



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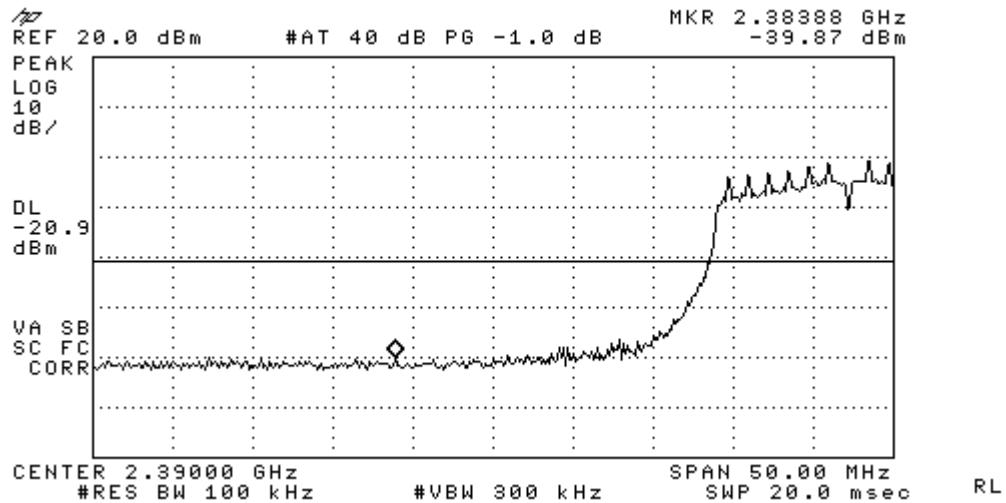


Figure 9-2a: Low band edge, 802.11g, ch1.

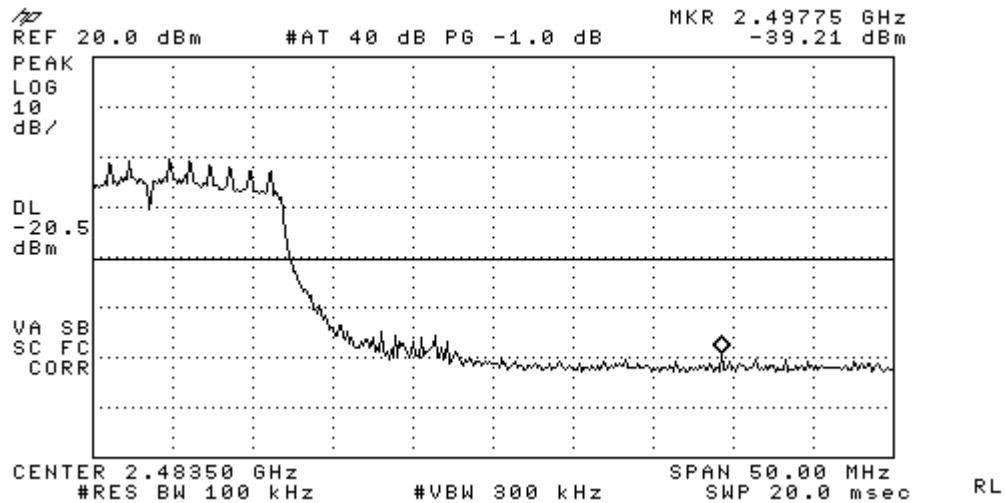


Figure 9-2b: High band edge, 802.11g, ch11.



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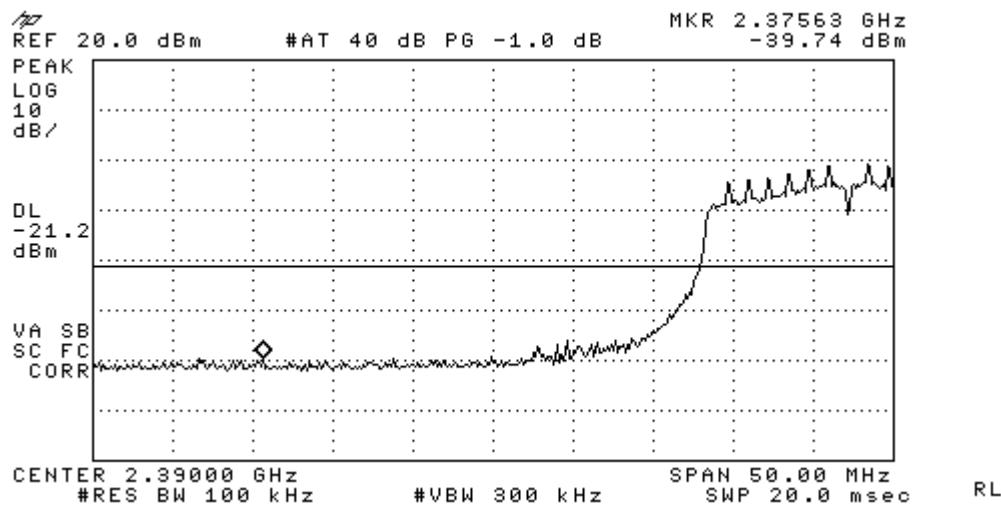


Figure 9-3a: Low band edge, 802.11n, ch1.

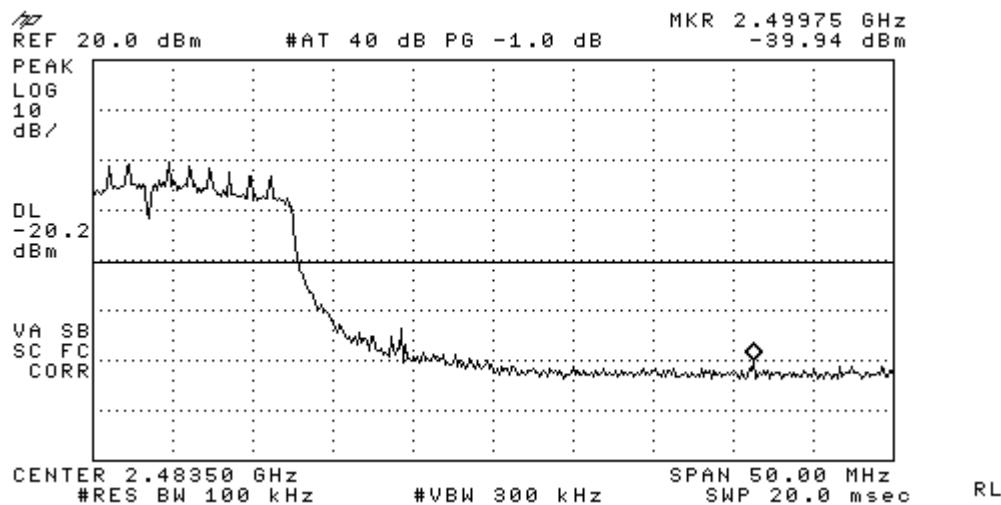


Figure 9-3b: High band edge, 802.11n, ch11.



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| Applicant: | Kyocera |
| FCC ID: | V65C5120 |
| Report #: | CT-C5120-0611-R0 |

10 SPURIOUS RF CONDUCTED EMISSIONS

10.1 Test Configuration

| | |
|------|---------------|
| FCC: | § 15.247 d |
| IC: | RSS-210 §A8.5 |

The RF output port of the EUT was directly connected to the input of the spectrum analyzer with sufficient attenuation. Subsequently, the low, mid and high channels of Bluetooth transmitter were enabled separately and the frequency spectrum was investigated for any spurious emissions. A fully charged battery was used as supply voltage.

Spectrum Analyzer Parameters:

RBW = 100kHz, VBW = 300kHz, Sweep Time = Auto, DL=-20dBc

Frequencies of Interest: Spectrum was investigated from 30MHz – 25 GHz.

10.2 Results: Conducted Spurious Emissions

| Figure | Channel | Channel | Frequency | Plot Description |
|--------|---------|---------|-----------|----------------------------------|
| 10-1a | b | 1 | 2412 | Low ch bandedge, 30MHz to 25GHz |
| 10-1b | | 6 | 2437 | Mid ch bandedge, 30MHz to 25GHz |
| 10-1c | | 11 | 2462 | High ch bandedge, 30MHz to 25GHz |
| 10-2a | g | 1 | 2412 | Low ch bandedge, 30MHz to 25GHz |
| 10-2b | | 6 | 2437 | Mid ch bandedge, 30MHz to 25GHz |
| 10-2c | | 11 | 2462 | High ch bandedge, 30MHz to 25GHz |
| 10-3a | n | 1 | 2412 | Low ch bandedge, 30MHz to 25GHz |
| 10-3b | | 6 | 2437 | Mid ch bandedge, 30MHz to 25GHz |
| 10-3c | | 11 | 2462 | High ch bandedge, 30MHz to 25GHz |

Comments:



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| Applicant: | Kyocera |
| FCC ID: | V65C5120 |
| Report #: | CT-C5120-0611-R0 |

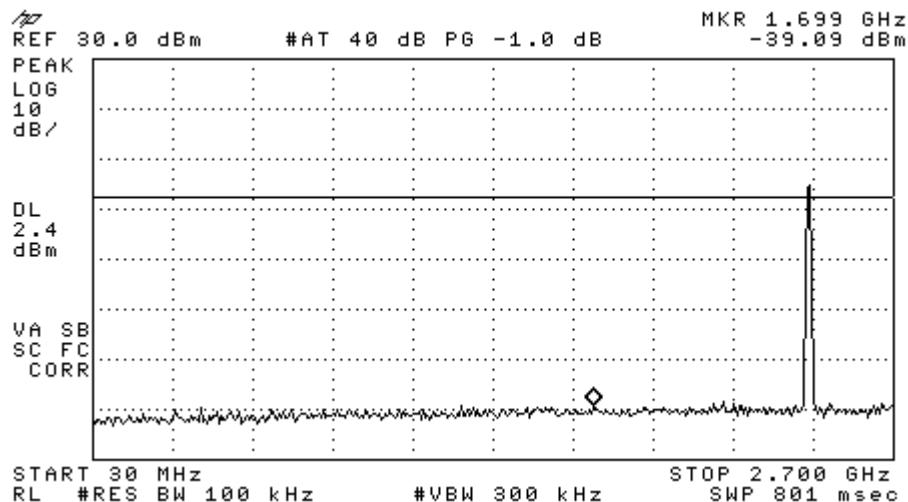


Figure 10-1a1: Conducted Spurious Emissions, 802.11b, Ch 1

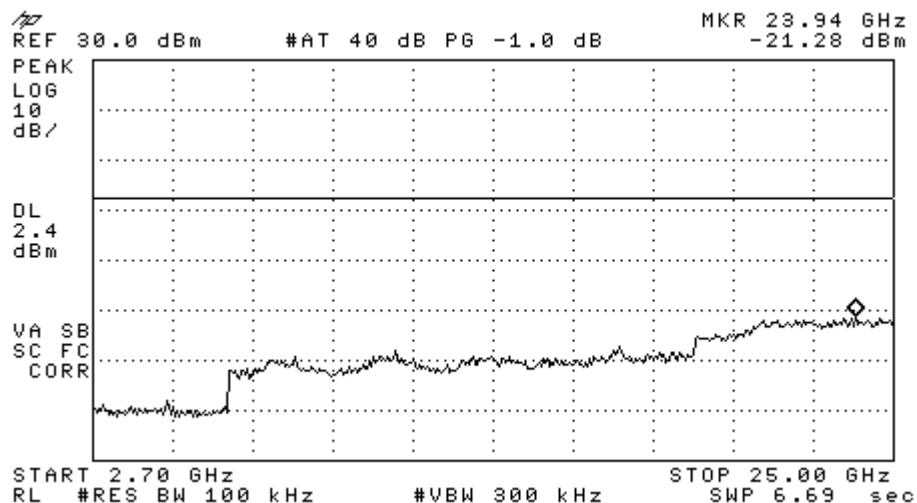


Figure 10-1a2: Conducted Spurious Emissions, 802.11b, Ch 1



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| Applicant: | Kyocera |
| FCC ID: | V65C5120 |
| Report #: | CT-C5120-0611-R0 |

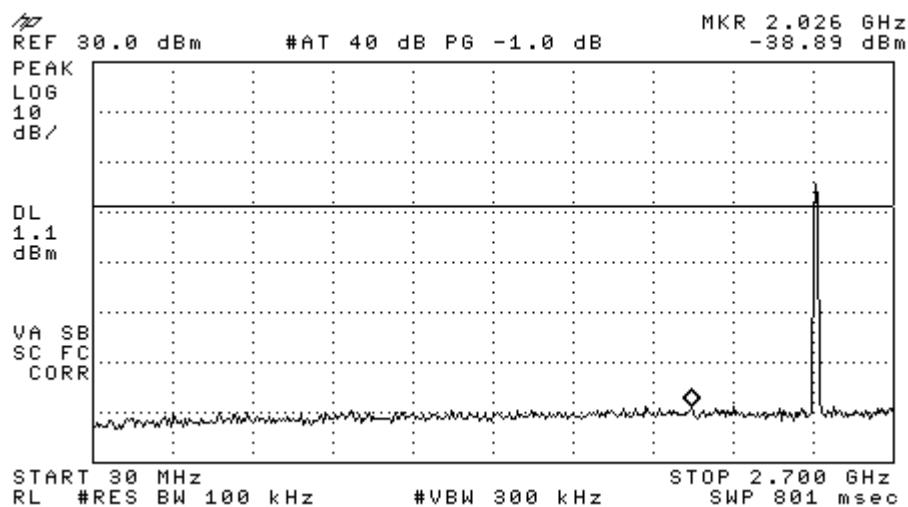


Figure 10-1b1: Conducted Spurious Emissions, 802.11b, Ch 6

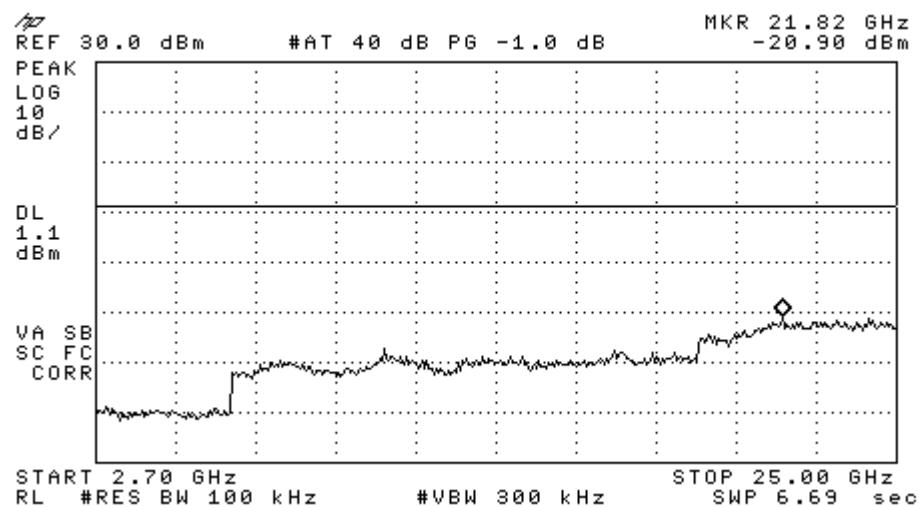


Figure 10-1b2: Conducted Spurious Emissions, 802.11b, Ch 6



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|------------|------------------|
| Applicant: | Kyocera |
| FCC ID: | V65C5120 |
| Report #: | CT-C5120-0611-R0 |

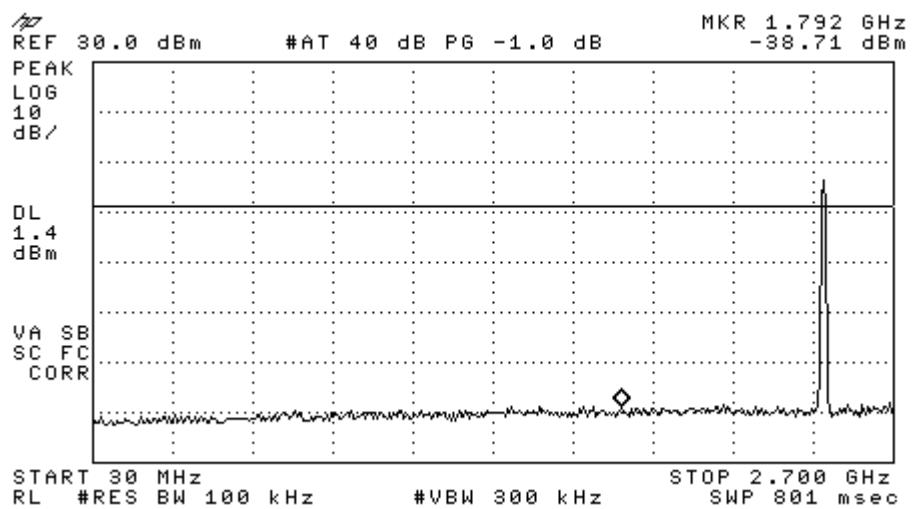


Figure 10-1c1: Conducted Spurious Emissions, 802.11b, Ch 11

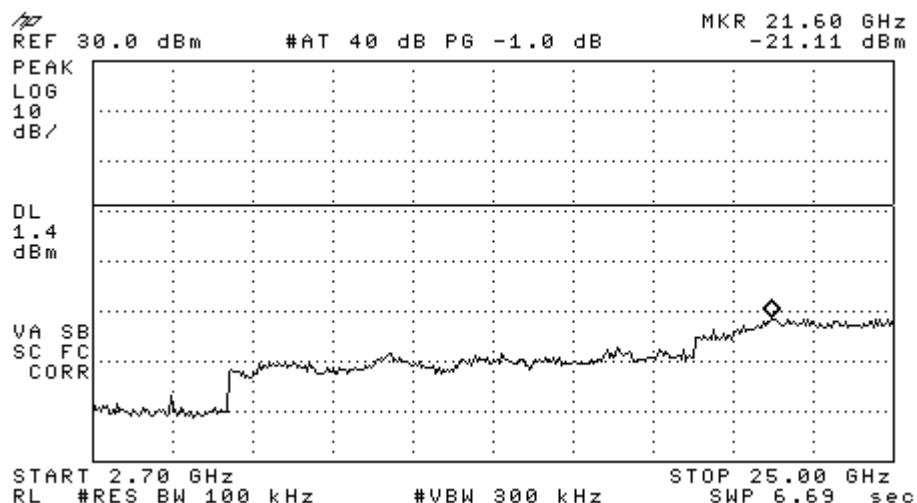


Figure 10-1c2: Conducted Spurious Emissions, 802.11b, Ch 11



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|------------|------------------|
| Applicant: | Kyocera |
| FCC ID: | V65C5120 |
| Report #: | CT-C5120-0611-R0 |

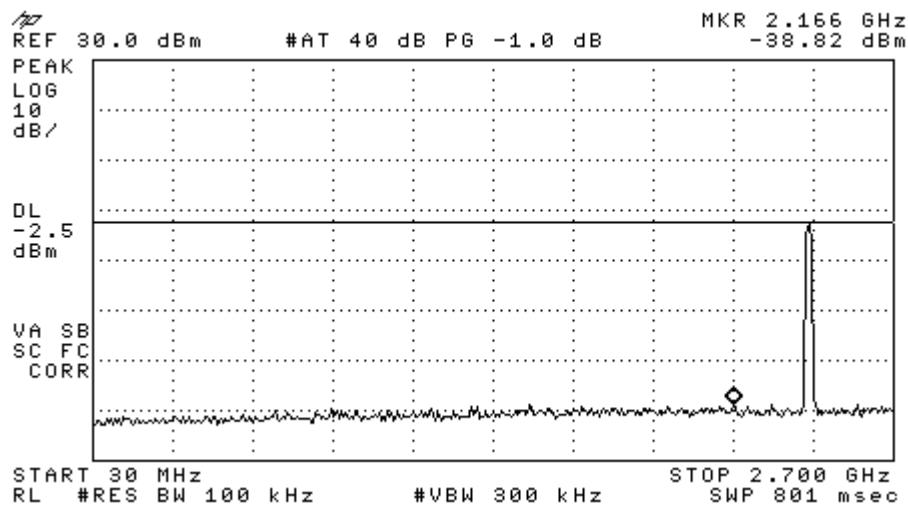


Figure 10-2a1: Conducted Spurious Emissions, 802.11g, Ch 1

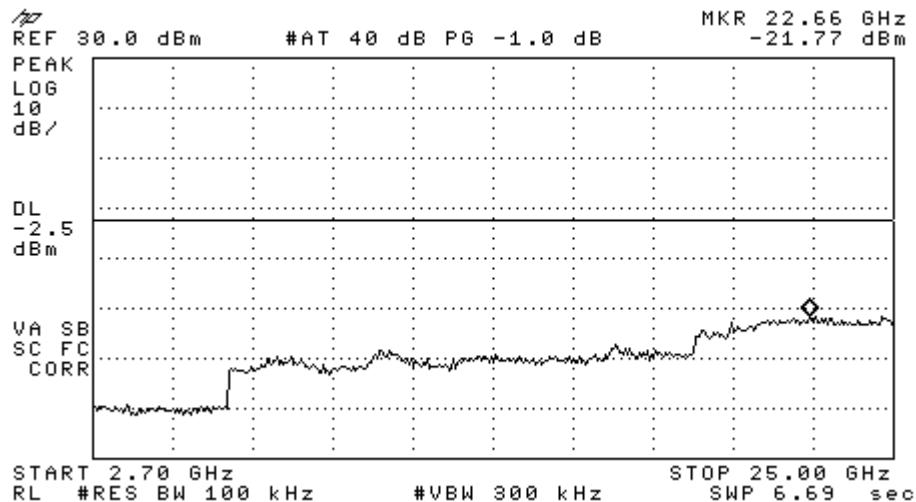


Figure 10-2a2: Conducted Spurious Emissions, 802.11g, Ch 1



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|------------|------------------|
| Applicant: | Kyocera |
| FCC ID: | V65C5120 |
| Report #: | CT-C5120-0611-R0 |

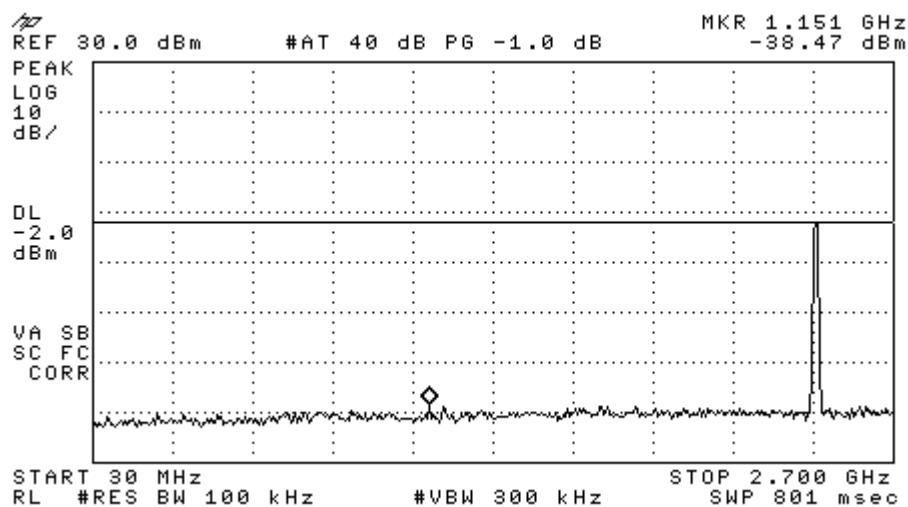


Figure 10-2b1: Conducted Spurious Emissions, 802.11g, Ch 6

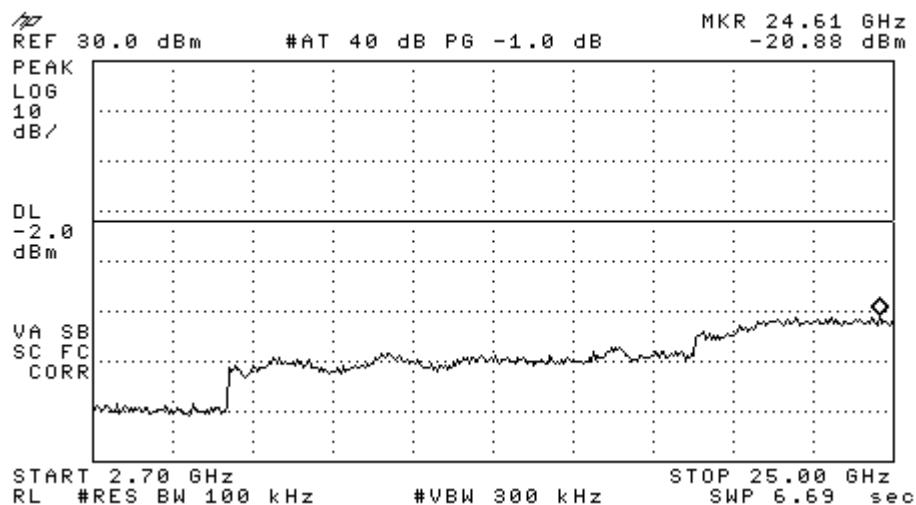


Figure 10-2b2: Conducted Spurious Emissions, 802.11g, Ch 6



| | |
|------------|------------------|
| Applicant: | Kyocera |
| FCC ID: | V65C5120 |
| Report #: | CT-C5120-0611-R0 |

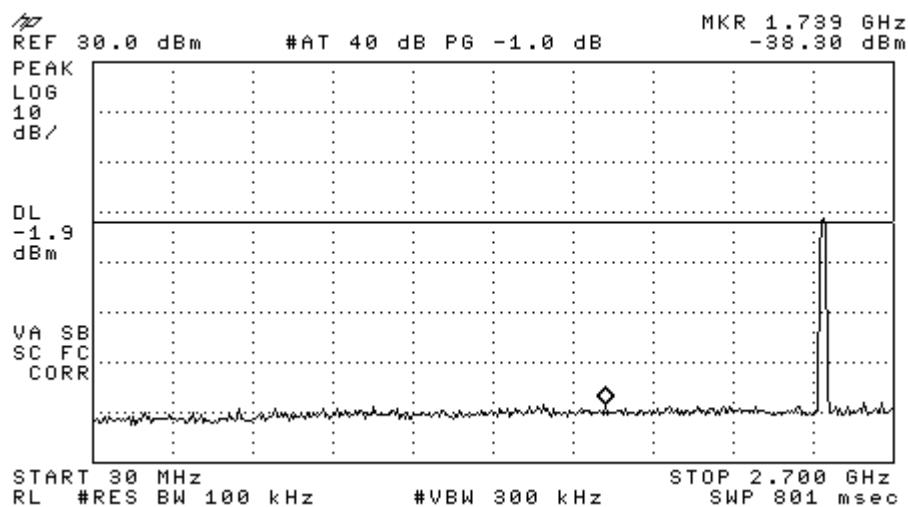


Figure 10-2c1: Conducted Spurious Emissions, 802.11g, Ch 11

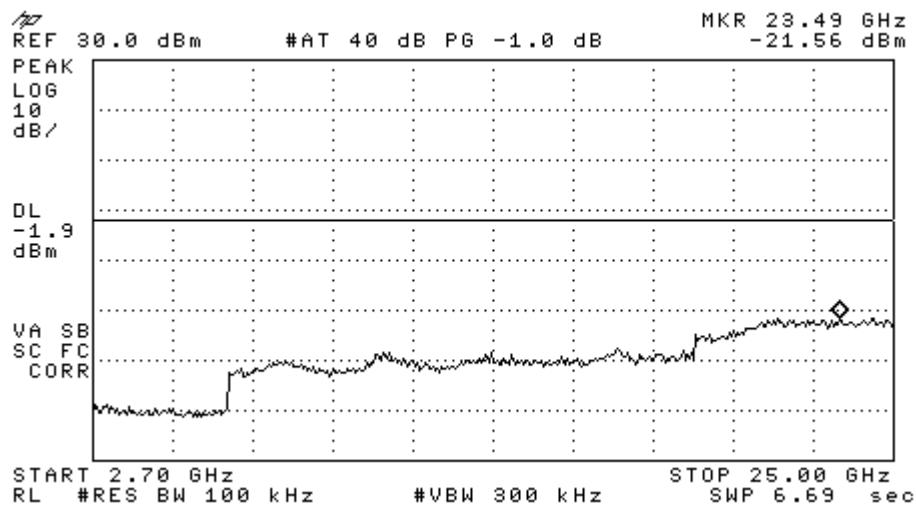


Figure 10-2c2: Conducted Spurious Emissions, 802.11g, Ch 11



| | |
|------------|------------------|
| Applicant: | Kyocera |
| FCC ID: | V65C5120 |
| Report #: | CT-C5120-0611-R0 |

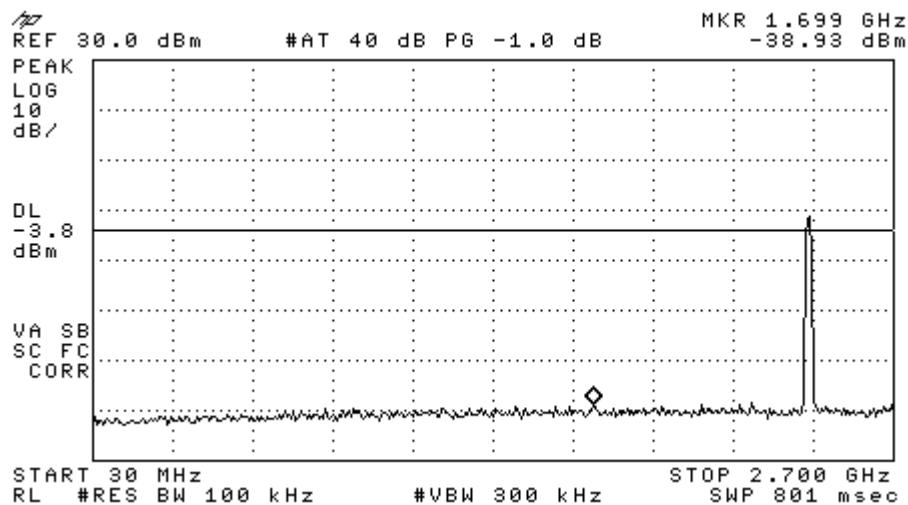


Figure 10-3a1: Conducted Spurious Emissions, 802.11n, Ch 1

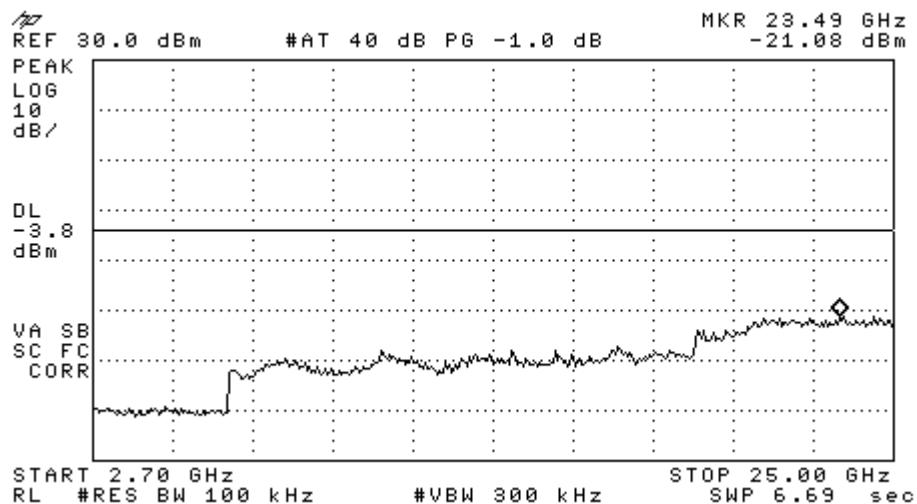


Figure 10-3a2: Conducted Spurious Emissions, 802.11n, Ch 1



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|------------|------------------|
| Applicant: | Kyocera |
| FCC ID: | V65C5120 |
| Report #: | CT-C5120-0611-R0 |

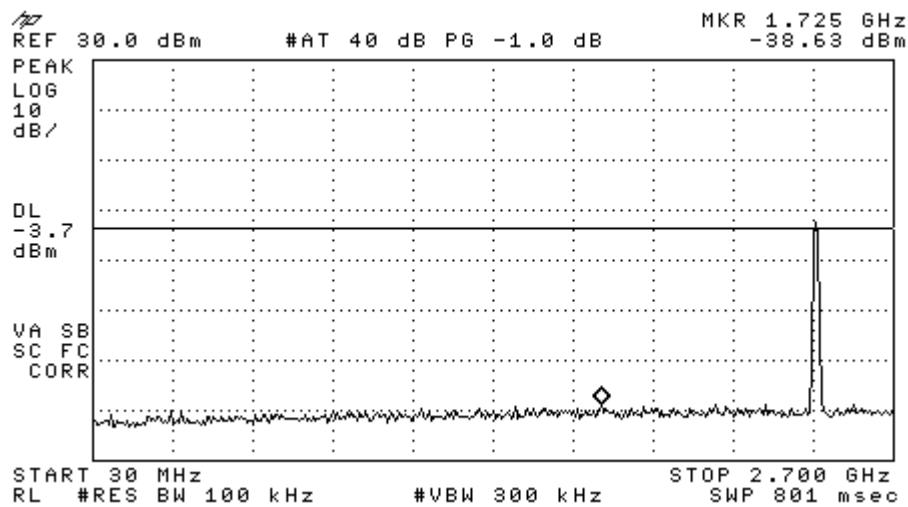


Figure 10-3b1: Conducted Spurious Emissions, 802.11n, Ch 6

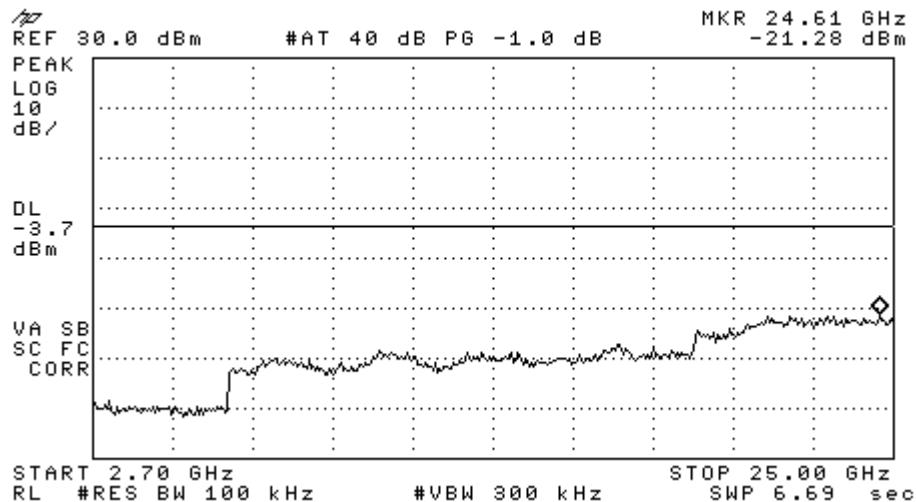


Figure 10-3b2: Conducted Spurious Emissions, 802.11n, Ch 6



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|------------|------------------|
| Applicant: | Kyocera |
| FCC ID: | V65C5120 |
| Report #: | CT-C5120-0611-R0 |

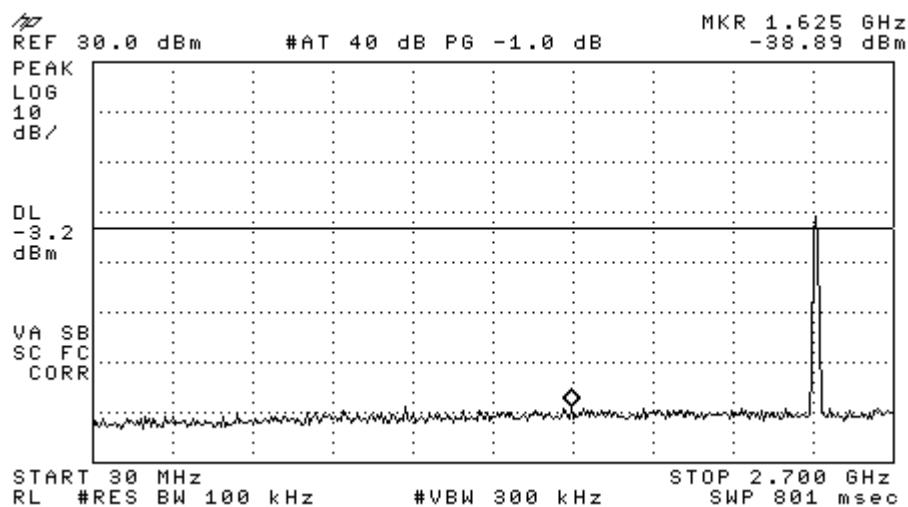


Figure 10-3c1: Conducted Spurious Emissions, 802.11n, Ch 11

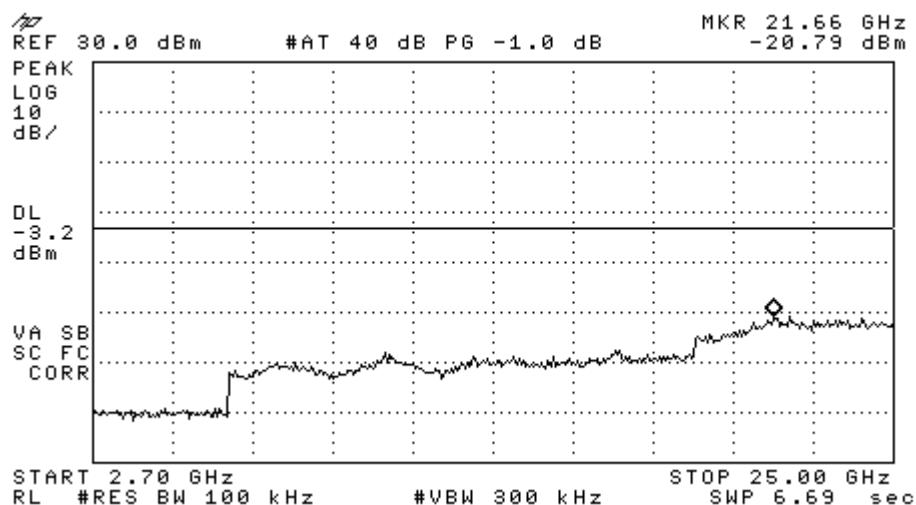


Figure 10-3c2: Conducted Spurious Emissions, 802.11n, Ch 11



| | |
|------------|------------------|
| Applicant: | Kyocera |
| FCC ID: | V65C5120 |
| Report #: | CT-C5120-0611-R0 |

11 AC POWER LINE CONDUCTED EMISSIONS

11.1 Test Configuration & Results

FCC: § 15.107 § 15.207

IC: RSS-210 §6.6

See separate report

12 RADIATED EMISSIONS

12.1 Test Configuration & Results

FCC: § 15.109 § 15.209

IC: RSS-210 §A2.9 (2)

See separate report

13 SAR TEST

13.1 Test Configuration & Results

FCC: § 2.1091/2.1093

IC: RSS-102

See separate report

14 TEST EQUIPMENT

The test equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

| Description | Manufacturer | Model No. | Serial No. | Cal Due Date |
|-------------------|-----------------|-----------|------------|--------------|
| Spectrum Analyzer | Hewlett Packard | 8593EM | 3710A00203 | 06/09/12 |
| Spectrum Analyzer | Hewlett Packard | 8595E | 3911A03899 | 07/20/11 |