# EXHIBIT A – Test Results (Cont.)

## Radiated Measurements (Cont.)External Antenna

§15.247(b) / §15.205 & §15.209

Transfer Rate: 1 Mbps

Distance of Measurements: 3 Meters

Channel: 11

| Frequency (MHz) | Level (dBm) | AFCL (dB) | POL (H/V) | F/S (dBµV/m) | F/S (µV/m) | Margin (dB) |
|---|---|---|---|---|---|---|
| 4924 | -101 | 40.7 | V | 46.7 | 216.3 | -7.3 |
| 7386 | -114 | 48.2 | V | 41.2 | 114.8 | -12.8 |
| 9848 | -128.1 | 50.4 | V | 29.3 | 29.2 | -24.7 |
| 12310 | -135 | 53.8 | V | 25.8 | 19.5 | -28.2 |

**Table A-11. Peak Radiated Measurements @ 3 meters**

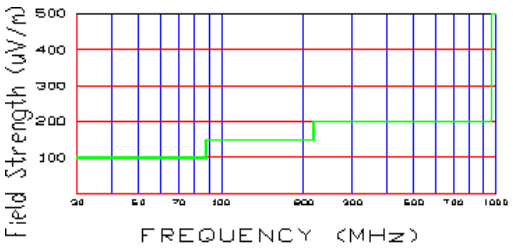



**Figure A-10. Radiated limits at 3 meters.**

NOTES:

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in Table A-19. (Note: * = Restricted Band measured frequency)

2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz

3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz

4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.

5. The antenna is manipulated through typical positions, polarity and length during the tests.

6. The EUT is supplied with nominal AC voltage or/and a new/fully-recharged battery.

7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.

8. < - 135 dBm are below the analyzer floor level.

9. Above 1 GHz, the limit is 500 µV/m (54dBµ/m) at 3 meters radiated.

# EXHIBIT A – Test Results (Cont.)

## Radiated Measurements (Cont.)

§15.247(b) / §15.205 & §15.209

Transfer Rate: 11 Mbps

Distance of Measurements: 3 Meters

Channel: 01

| Frequency (MHz) | Level (dBm) | AFCL (dB) | POL (H/V) | F/S (dBµV/m) | F/S (µV/m) | Margin (dB) |
|---|---|---|---|---|---|---|
| 4824 | -95.5 | 40.4 | V | 51.9 | 393.1 | -2.1 |
| 7236 | -110 | 47.4 | V | 44.4 | 166.3 | -9.6 |
| 9648 | -128 | 50.3 | V | 29.3 | 29.2 | -24.7 |
| 12060 | -135 | 53.7 | V | 25.7 | 19.3 | -28.3 |

**Table A-9. Peak Radiated Measurements @ 3 meters**

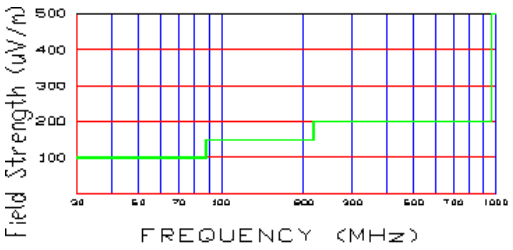



**Figure A-8. Radiated limits at 3 meters.**

NOTES:

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in Table A-19. (Note: * = Restricted Band measured frequency)

2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz

3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz

4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.

5. The antenna is manipulated through typical positions, polarity and length during the tests.

6. The EUT is supplied with nominal AC voltage or/and a new/fully-recharged battery.

7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.

8. < - - 135 dBm are below the analyzer floor level.

9. Above 1 GHz, the limit is 500 µV/m (54dBµ/m) at 3 meters radiated.

# EXHIBIT A – Test Results (Cont.)

## Radiated Measurements (Cont.)

§15.247(b) / §15.205 & §15.209

Transfer Rate: 11 Mbps

Distance of Measurements: 3 Meters

Channel: 06

| Frequency (MHz) | Level (dBm) | AFCL (dB) | POL (H/V) | F/S (dBµV/m) | F/S (µV/m) | Margin (dB) |
|---|---|---|---|---|---|---|
| 4874 | -96.6 | 40.5 | V | 50.9 | 350.8 | -3.1 |
| 7311 | -111 | 48.0 | V | 44.0 | 158.5 | -10.0 |
| 9748 | -126.3 | 50.3 | V | 31.0 | 35.5 | -23.0 |
| 12185 | -135 | 53.7 | V | 25.7 | 19.3 | -28.3 |

**Table A-10. Peak Radiated Measurements @ 3 meters**

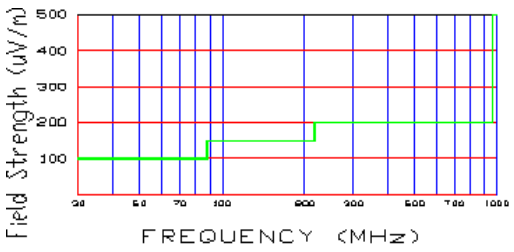



**Figure A-9. Radiated limits at 3 meters.**

NOTES:

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in Table A-19. (Note: * = Restricted Band measured frequency)

2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz

3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz

4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.

5. The antenna is manipulated through typical positions, polarity and length during the tests.

6. The EUT is supplied with nominal AC voltage or/and a new/fully-recharged battery.

7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.

8. < - - 135 dBm are below the analyzer floor level.

9. Above 1 GHz, the limit is 500 µV/m (54dBµ/m) at 3 meters radiated.

# EXHIBIT A – Test Results (Cont.)

## Radiated Measurements (Cont.)External Antenna

§15.247(b) / §15.205 & §15.209

Transfer Rate: 1 Mbps

Distance of Measurements: 3 Meters

Channel: 11

| Frequency (MHz) | Level (dBm) | AFCL (dB) | POL (H/V) | F/S (dBµV/m) | F/S (µV/m) | Margin (dB) |
|---|---|---|---|---|---|---|
| 4924 | -96 | 40.7 | V | 51.7 | 384.6 | -2.3 |
| 7386 | -111.3 | 48.2 | V | 43.9 | 156.7 | -10.1 |
| 9848 | -125.1 | 50.4 | V | 32.3 | 41.2 | -21.7 |
| 12310 | -135 | 53.8 | V | 25.8 | 19.5 | -28.2 |

**Table A-11. Peak Radiated Measurements @ 3 meters**

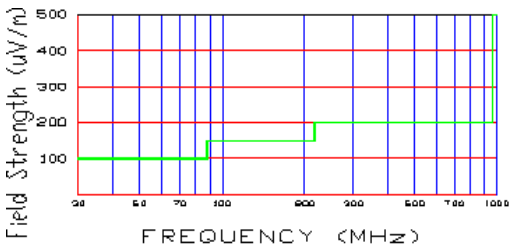



**Figure A-10. Radiated limits at 3 meters.**

NOTES:

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in Table A-19. (Note: * = Restricted Band measured frequency)

2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz

3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz

4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.

5. The antenna is manipulated through typical positions, polarity and length during the tests.

6. The EUT is supplied with nominal AC voltage or/and a new/fully-recharged battery.

7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.

8. < - 135 dBm are below the analyzer floor level.

9. Above 1 GHz, the limit is 500 µV/m (54dBµ/m) at 3 meters radiated.

# EXHIBIT A – Test Results (Cont.)

## Radiated Spurious Measurements

§15.205 / §15.209

Distance of Measurements: 3 Meters

| FREQ (MHz) | Level (dBm) | AFCL (dB/m) | POL (H/V) | Height (m) | Azimuth (° angle) | F/S (uV/M) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| 24.9 | -82.5 | 4.0 | H | 2.8 | 30 | 26.7 | -7.2 |
| 153.6 | -84.6 | 13.9 | H | 2.5 | 190 | 65.3 | -6.1 |
| 175.5 | -84.5 | 13.5 | V | 2.3 | 190 | 63.3 | -8.5 |
| 187.5 | -86.9 | 15.9 | H | 1.6 | 170 | 63.2 | -6.5 |
| 434.6 | -94.8 | 24.5 | V | 1.3 | 180 | 68.4 | -5.2 |
| 473.0 | -97.4 | 25.5 | H | 1.1 | 200 | 56.7 | -3.8 |

**Table A-18. Radiated Measurements at 3-meters**

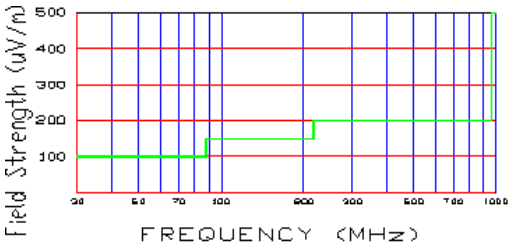



**Figure A-17. Radiated limits at 3 meters**

NOTES:

1. All emissions were investigated and the worst-case emissions are reported.

2. For hand-held devices, the EUT is rotated through three orthogonal axes to determine which configuration produces the maximum emissions.

3. The EUT is supplied with the minimal AC voltage or/and a new/fully re-charged battery.

4. The EUT was tested up to the 10th harmonic (25GHz) and no significant emission was found.

5. Above 1 GHz the limit is 500µV/m at 3 meters radiated.

# EXHIBIT A – Test Results (Cont.)

## Radiated Restricted Band Measurements

§15.205 / §15.209

Special attention is made for the EUT's harmonic and spurious radiated emission in the restricted bands of operations. The EUT was tested from 9kHz and up to the tenth harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHZ. Above 1 GHz, average measurement was used, using RBW 1MHz – VBW 10Hz and linearly polarized horn antennas. All harmonics/spurs are at least 20dB below the highest emission in the authorized band using RBW = 100kHz. In addition, peak measurements were taken to ensure that the peak levels are not more than 20dB above the average limit. All out of band emissions, other than those created by the spreading sequence, data sequence, and the carrier modulation must not exceed the limits show in Table G-1 per Section 15.209.

| Frequency | F/S (µV/m) | Measured Distance (Meters) |
|---|---|---|
| 0.009 – 0.490 MHz | 2400/F (kHz) | 300 |
| 0.490 – 1.705 MHz | 24000/F (kHz) | 30 |
| 1.705 – 30.00 MHz | 30 | 30 |
| 30.00 – 88.00 MHz | 100 | 3 |
| 88.00 – 216.0 MHz | 150 | 3 |
| 216.0 – 960.0 MHz | 200 | 3 |
| Above 960.0 MHz | 500 | 3 |

**Table A-19. Restricted Band Limits**

### TEST MEASUREMENT EQUIPMENT

| | |
|---|---|
| Agilent E4448A | PSA Spectrum Analyzer 3 Hz - 50GHz |
| HP 8566B | Spectrum Analyzer 100Hz – 22GHz |
| HP 83017A | Microwave Analyzer 40dB Gain (0.5 – 26.5GHz) |
| HP 3784A | Digital Transmission Analyzer |
| EMCO 3115 | Horn Antenna (1 – 18GHz) |
| HP 8495A | 20dB Attenuator (DC-40GHz) 0 –70dB |
| HP 8493B | 10dB Attenuator |
| MicroCoax Cables | Low Loss Microwave Cables (1 – 26.5GHz) |
| CDI Dipoles | Dipole Antennas (30 – 1000MHz) |
| EMCO 3116 | Horn Antenna (18 – 40GHz) |

# EXHIBIT A – Test Results (Cont.)

## Radiated Restricted Band Measurements (Cont.)

§15.205 /§15.209 courtesy

Operating Frequency: 2462 MHz

Distance of Measurements: 3 Meters

| FREQ (MHz) | Level (dBm) | AFCL (dB/m) | POL (H/V) | F/S (dBµV/m) | F/S (uV/M) | Margin (dB) |
|---|---|---|---|---|---|---|
| 2483.7 | -98.3 | 33.0 | V | 41.7 | 121.6 | -12.3 |
| 2484.0 | -95.4 | 33.0 | V | 44.6 | 169.8 | -9.4 |
| 2484.2 | -96.0 | 33.1 | V | 44.1 | 160.3 | -9.9 |
| 2485.1 | -95.3 | 33.1 | V | 44.8 | 173.8 | -9.2 |
| 2493.0 | -99.2 | 33.2 | V | 41.0 | 112.2 | -13.0 |
| 2493.5 | -96.0 | 33.2 | V | 44.2 | 162.2 | -9.8 |

**Table A-20. Radiated Restricted Band Measurements at 3-meters**

NOTES:

1. The antenna is manipulated through typical positions, polarity and length during the testing.

2. The EUT is supplied with the minimal AC voltage or/and a new/fully re-charged battery.

3. The spectrum is measured from 9kHz up to the 10th harmonic and the worst-case emissions are reported.

4. The conducted limits are shown on Figure A-14. Above 1 GHz the limit is 500µV/m.

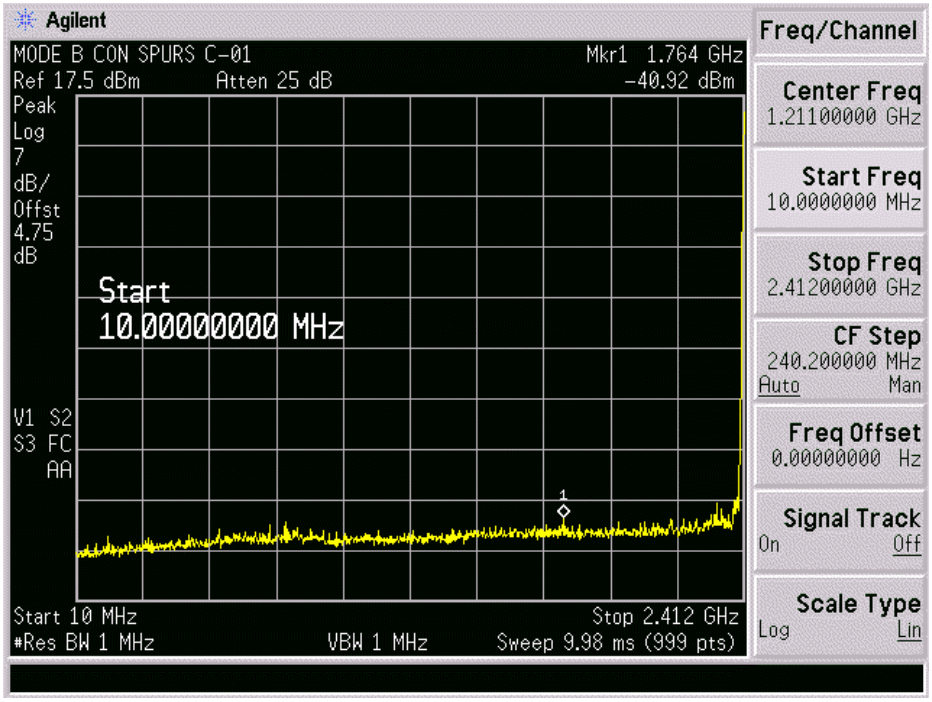
5. < -135 dBm is below the analyzer measurement floor level.

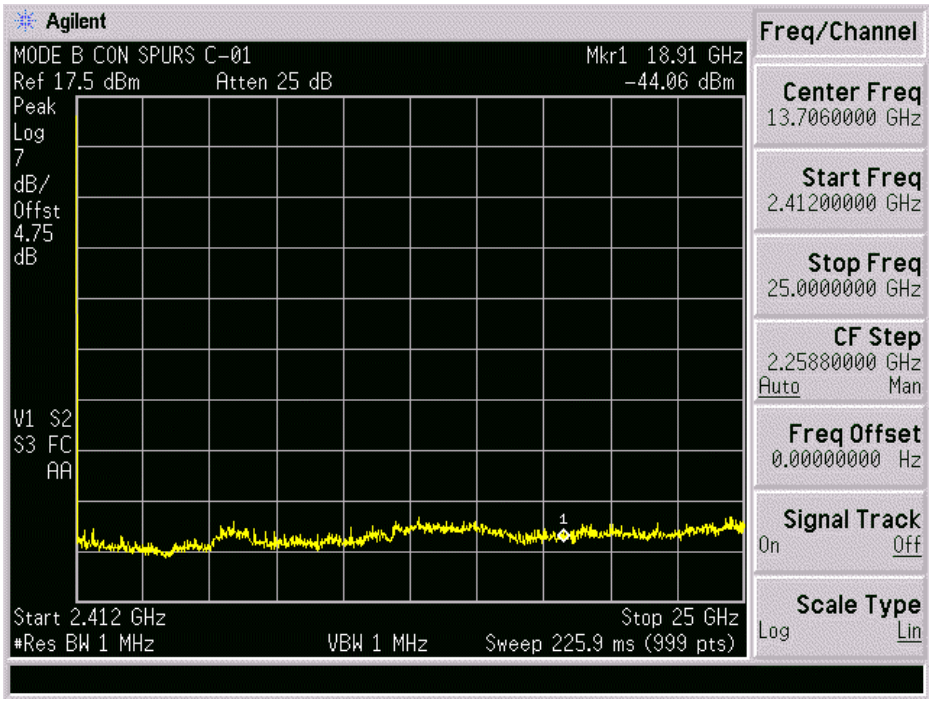
6. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz

7. The peak emission levels are less than 20 dB above the average limit.

## EXHIBIT A – Test Results (Cont.)

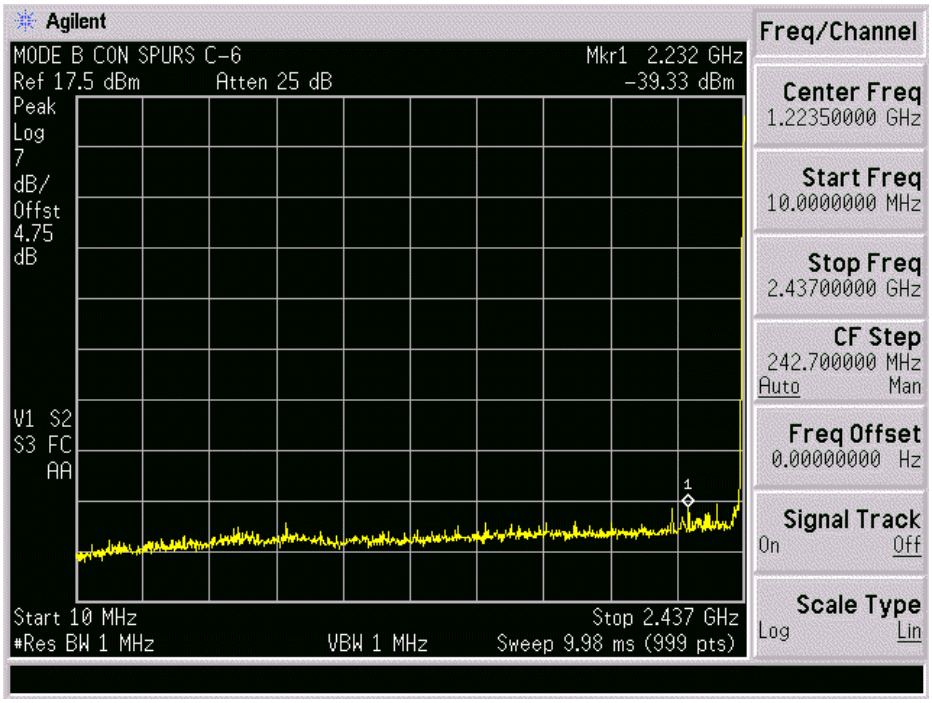
## Conducted Spurious Data (802.11 B)

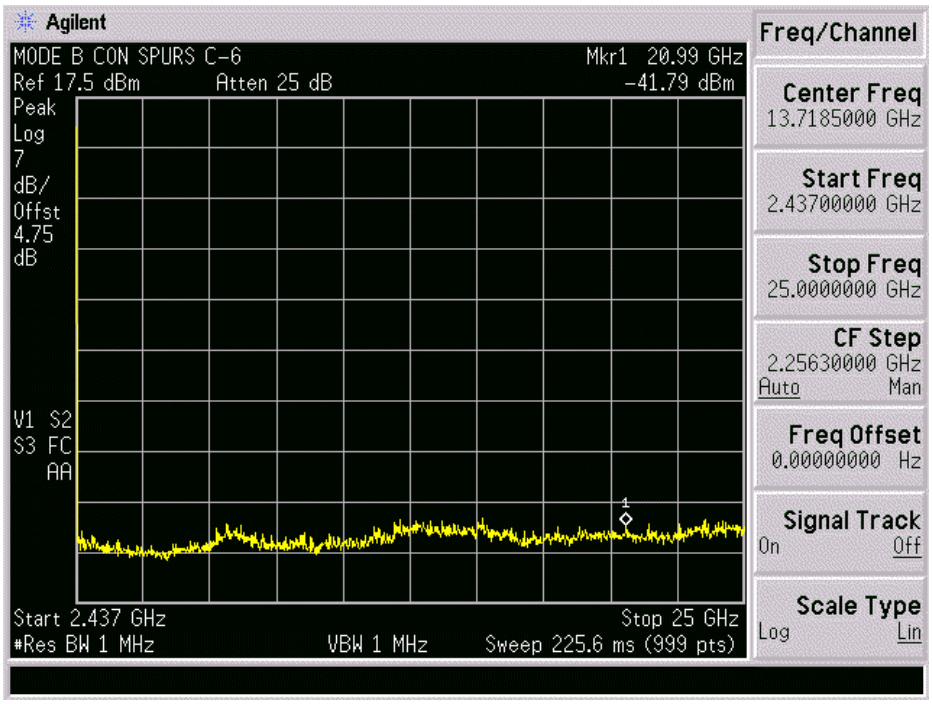


## EXHIBIT A – Test Results (Cont.)

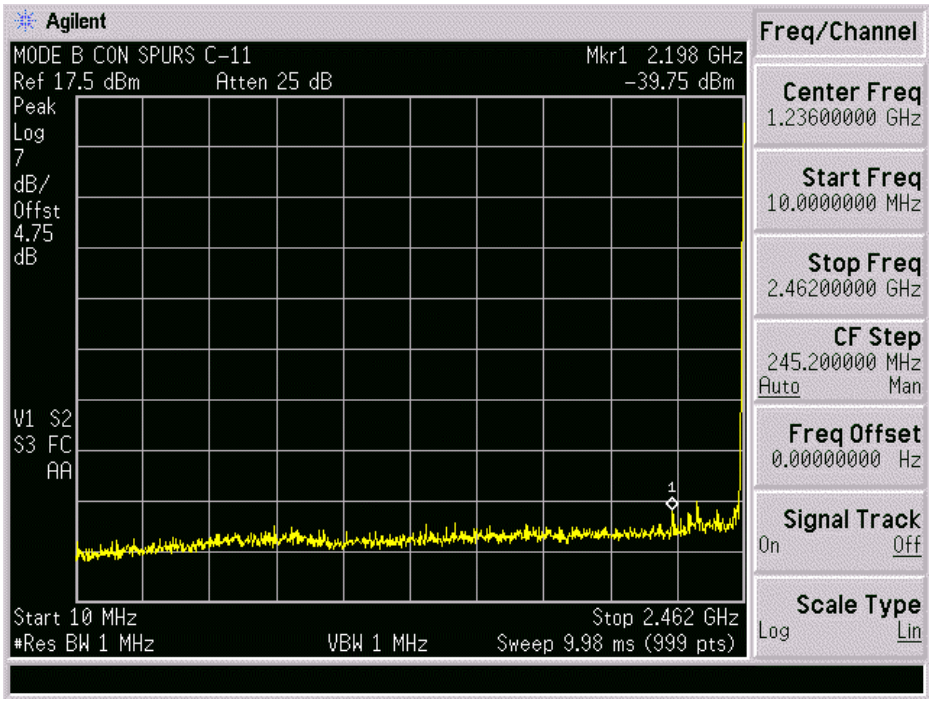
## Conducted Spurious Data (802.11 B)

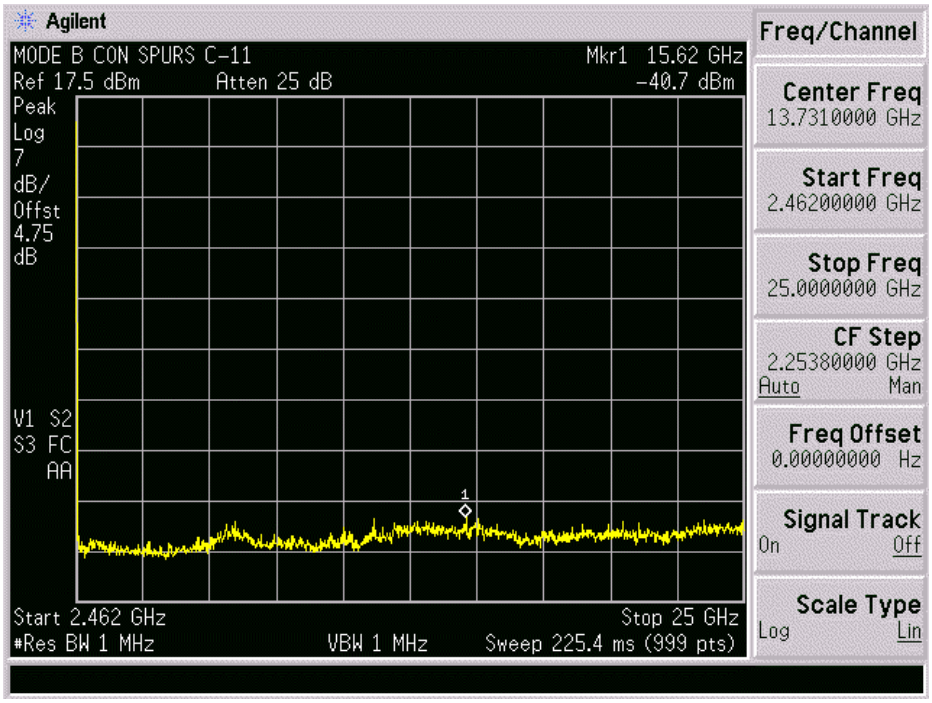


## EXHIBIT A – Test Results (Cont.)

## Conducted Spurious Data (802.11 B)

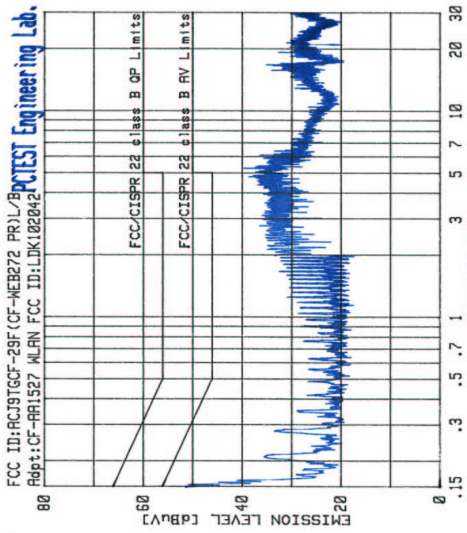


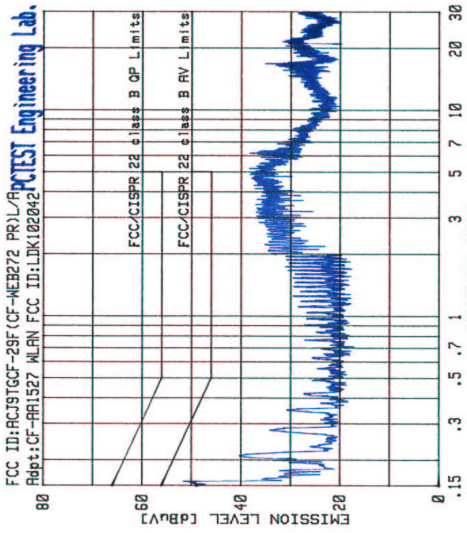
# EXHIBIT A – Test Results (Cont.)

## Line-Conducted Test Data

§15.207




| No. | Freq. [MHz] | Quasi-Pk [dBuV] | Limit [dBuV] | Margin [dB] | Average [dBuV] | Limit [dBuV] | Margin [dB] |
|---|---|---|---|---|---|---|---|
| 1 | .150 | 31.99 | 65.98 | -33.99 | 21.48 | 56.00 | -34.52 |
| 2 | 4.800 | 30.98 | 56.00 | -25.02 | 25.16 | 46.00 | -20.84 |
| 3 | 4.869 | 31.61 | 56.00 | -24.39 | 24.96 | 46.00 | -21.04 |
| 4 | 4.591 | 30.51 | 56.00 | -25.49 | 25.24 | 46.00 | -20.76 |
| 5 | 4.383 | 29.66 | 56.00 | -26.34 | 24.64 | 46.00 | -21.36 |
| 6 | 4.522 | 30.32 | 56.00 | -25.68 | 24.69 | 46.00 | -21.31 |
| 7 | 2.784 | 28.35 | 56.00 | -27.65 | 25.42 | 46.00 | -20.58 |
| 8 | 3.131 | 28.86 | 56.00 | -27.14 | 25.76 | 46.00 | -20.24 |
| 9 | 2.993 | 28.99 | 56.00 | -27.01 | 25.70 | 46.00 | -20.30 |
| 10 | 3.966 | 29.30 | 56.00 | -26.70 | 26.07 | 46.00 | -19.93 |




| No. | Freq. [MHz] | Quasi-Pk [dBuV] | Limit [dBuV] | Margin [dB] | Average [dBuV] | Limit [dBuV] | Margin [dB] |
|---|---|---|---|---|---|---|---|
| 1 | .150 | 37.23 | 65.98 | -28.75 | 21.63 | 56.00 | -34.37 |
| 2 | 4.871 | 32.86 | 56.00 | -23.14 | 26.41 | 46.00 | -19.59 |
| 3 | 4.661 | 31.83 | 56.00 | -24.17 | 26.56 | 46.00 | -19.44 |
| 4 | 4.940 | 32.44 | 56.00 | -23.56 | 26.40 | 46.00 | -19.60 |
| 5 | 4.314 | 31.17 | 56.00 | -24.83 | 26.38 | 46.00 | -19.62 |
| 6 | 4.591 | 31.43 | 56.00 | -24.57 | 27.47 | 46.00 | -18.53 |
| 7 | 4.175 | 30.92 | 56.00 | -25.08 | 27.33 | 46.00 | -18.67 |
| 8 | 4.522 | 31.53 | 56.00 | -24.47 | 26.42 | 46.00 | -19.58 |
| 9 | 3.479 | 30.63 | 56.00 | -25.37 | 26.94 | 46.00 | -19.06 |
| 10 | 3.201 | 30.10 | 56.00 | -25.90 | 26.61 | 46.00 | -19.39 |

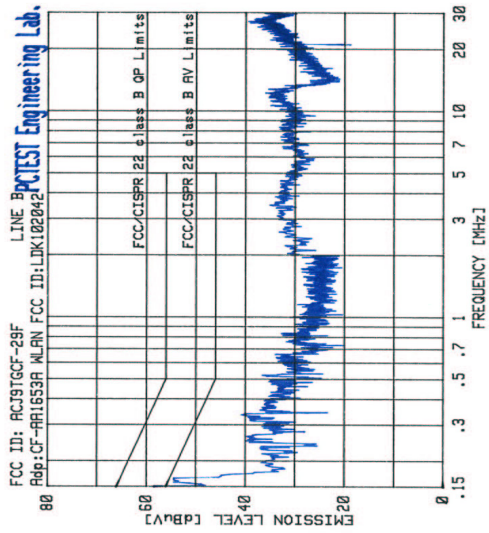
Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported.
2. The limit for Class B device(s) from 150kHz to 30MHz are Specified in EN55022.
3. Line A = Phase; Line B = Neutral
4. Deviations to the Specifications: *None.*

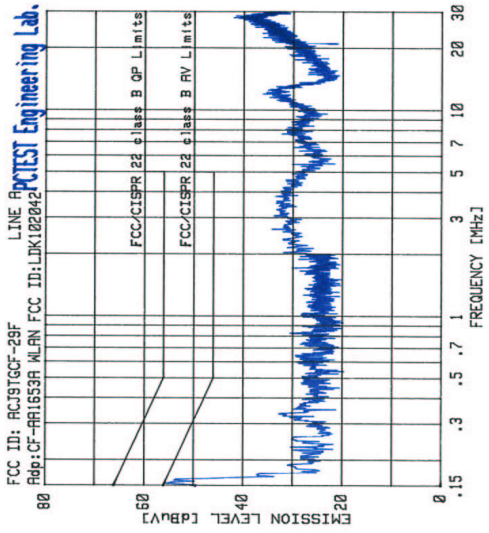
# EXHIBIT A – Test Results (Cont.)

## Line-Conducted Test Data

§15.207




| No. | Freq. [MHz] | Quasi-Pk [dBuV] | Limit [dBuV] | Margin [dB] | Average [dBuV] | Limit [dBuV] | Margin [dB] |
|---|---|---|---|---|---|---|---|
| 1 | .150 | 49.20 | 65.98 | -16.78 | 24.19 | 56.00 | -31.81 |
| 2 | .150 | 49.63 | 65.98 | -16.35 | 23.97 | 55.83 | -31.86 |
| 3 | .315 | 37.58 | 59.83 | -22.25 | 21.03 | 49.58 | -28.55 |
| 4 | .515 | 31.85 | 56.00 | -24.15 | 19.13 | 46.00 | -26.87 |
| 5 | 27.180 | 30.20 | 60.00 | -29.80 | 22.45 | 50.00 | -27.55 |
| 6 | 3.494 | 27.23 | 56.00 | -28.77 | 19.73 | 46.00 | -26.27 |
| 7 | 26.740 | 30.12 | 60.00 | -29.88 | 22.28 | 50.00 | -27.72 |
| 8 | .467 | 31.00 | 56.57 | -25.57 | 19.00 | 46.40 | -27.40 |
| 9 | .252 | 39.24 | 61.71 | -22.47 | 20.92 | 51.39 | -30.47 |
| 10 | 27.705 | 30.10 | 60.00 | -29.90 | 22.52 | 50.00 | -27.48 |




| No. | Freq. [MHz] | Quasi-Pk [dBuV] | Limit [dBuV] | Margin [dB] | Average [dBuV] | Limit [dBuV] | Margin [dB] |
|---|---|---|---|---|---|---|---|
| 1 | .150 | 42.10 | 65.98 | -23.88 | 22.63 | 56.00 | -33.37 |
| 2 | 28.140 | 32.51 | 60.00 | -27.49 | 23.15 | 50.00 | -26.85 |
| 3 | 28.695 | 30.87 | 60.00 | -29.13 | 22.11 | 50.00 | -27.89 |
| 4 | 27.858 | 31.18 | 60.00 | -28.82 | 23.43 | 50.00 | -26.57 |
| 5 | 28.259 | 32.50 | 60.00 | -27.50 | 22.89 | 50.00 | -27.11 |
| 6 | 27.491 | 31.53 | 60.00 | -28.47 | 23.25 | 50.00 | -26.75 |
| 7 | 28.593 | 31.02 | 60.00 | -28.98 | 22.23 | 50.00 | -27.77 |
| 8 | 27.604 | 32.47 | 60.00 | -27.53 | 23.42 | 50.00 | -26.58 |
| 9 | 27.489 | 31.41 | 60.00 | -28.59 | 23.20 | 50.00 | -26.80 |
| 10 | 26.806 | 31.93 | 60.00 | -28.07 | 22.64 | 50.00 | -27.36 |

Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported.
2. The limit for Class B device(s) from 150kHz to 30MHz are Specified in EN55022.
3. Line A = Phase; Line B = Neutral
4. Deviations to the Specifications: *None.*

# EXHIBIT B – Labeling Requirements

## Sample Label & Location

New Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The sample label shown below shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the trade name, FCC ID, and the FCC logo must be displayed on the device per Section 15.19 (b)(2).

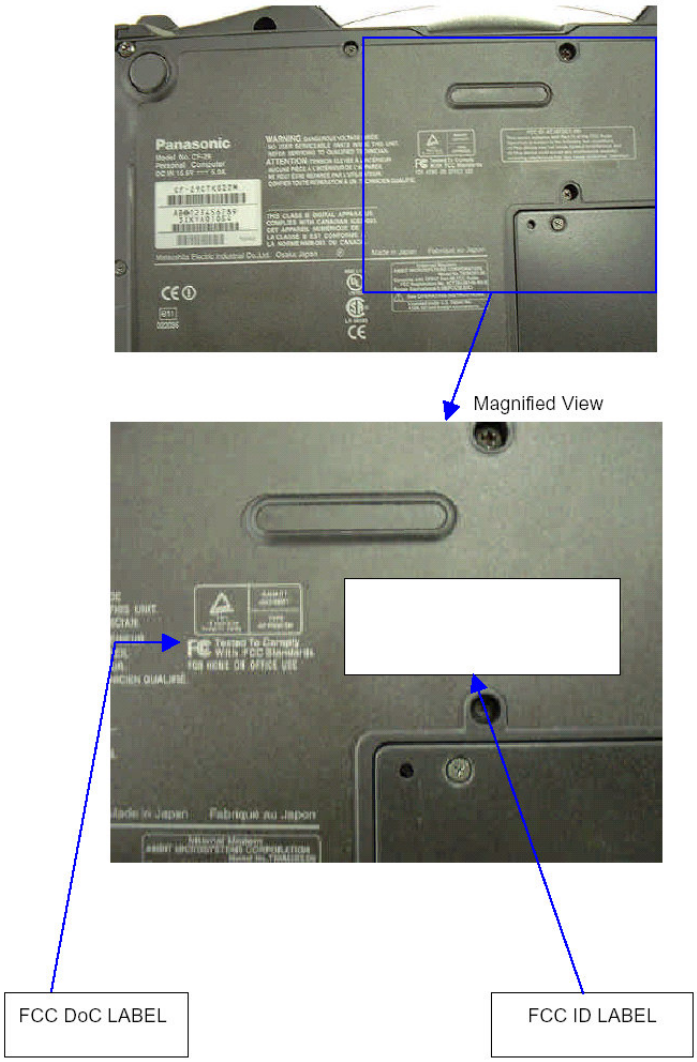
FCC ID: ACJ9TGCF-29F

This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions.
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received,
including interference that may cause undesired operation.

## EXHIBIT B – Labeling Requirements (Cont.)

## Sample Label & Location

**FCC ID Label**



# EXHIBIT C – Block Diagram/Schematics

# EXHIBIT D – Operational Description

# EXHIBIT E – Test Setup Photographs

The Line-Conducted and Radiated Test Pictures show the worst-case configuration and cable placement with a minimum margin to the specifications.

# EXHIBIT F – EUT External/Internal Photographs

# EXHIBIT G – User's Manual

# EXHIBIT H – SAR Measurement Report