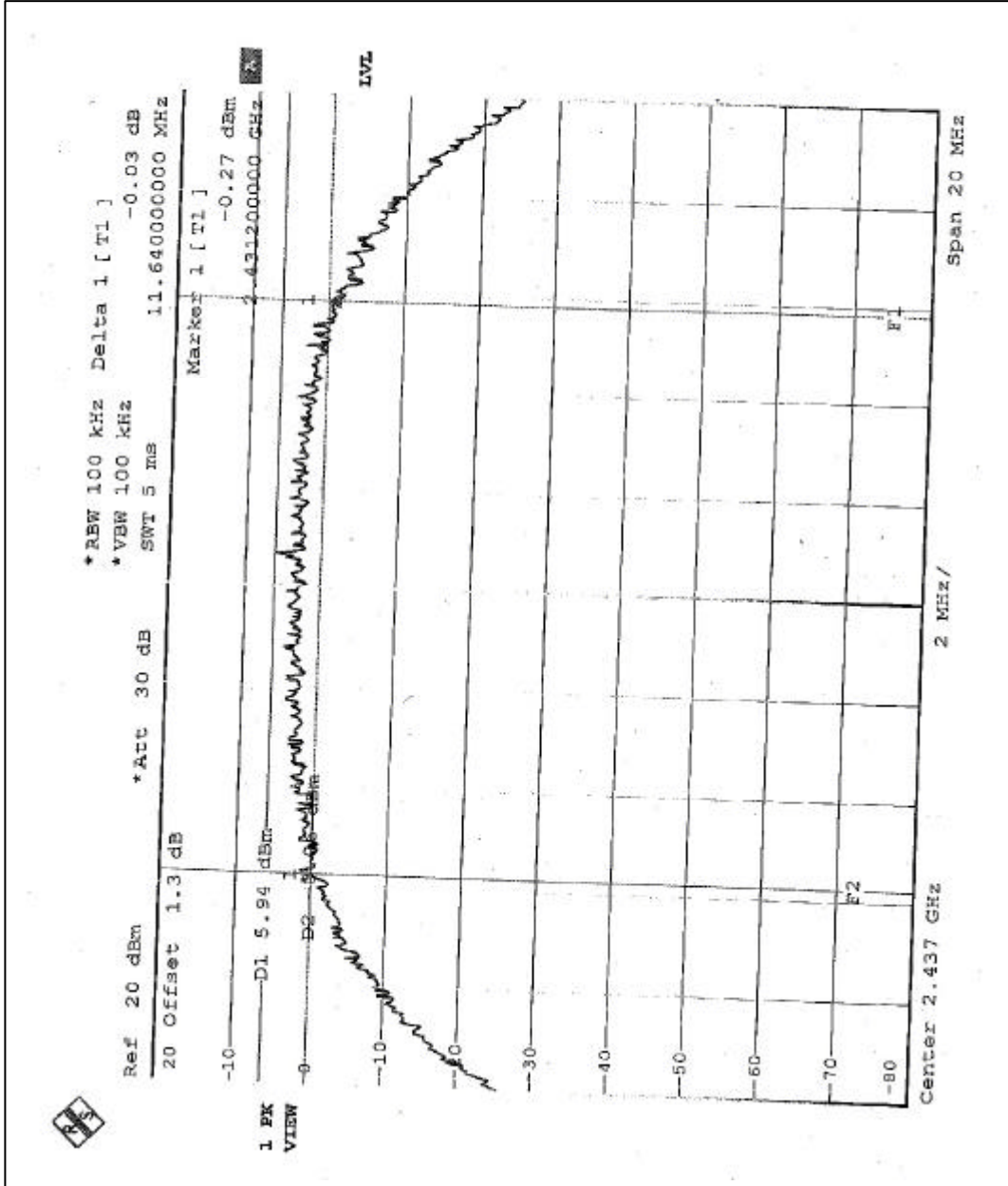


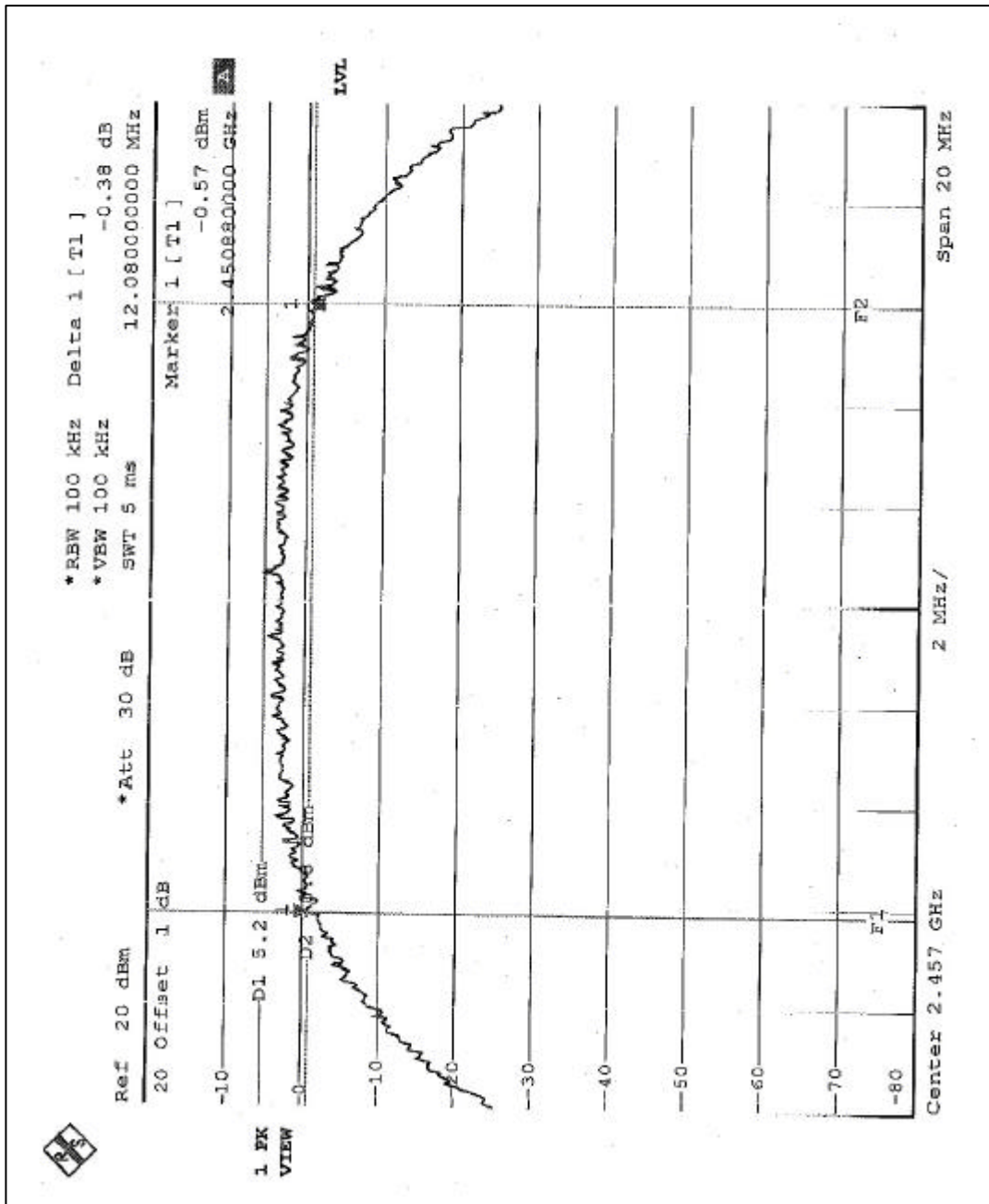


CH6





CH10





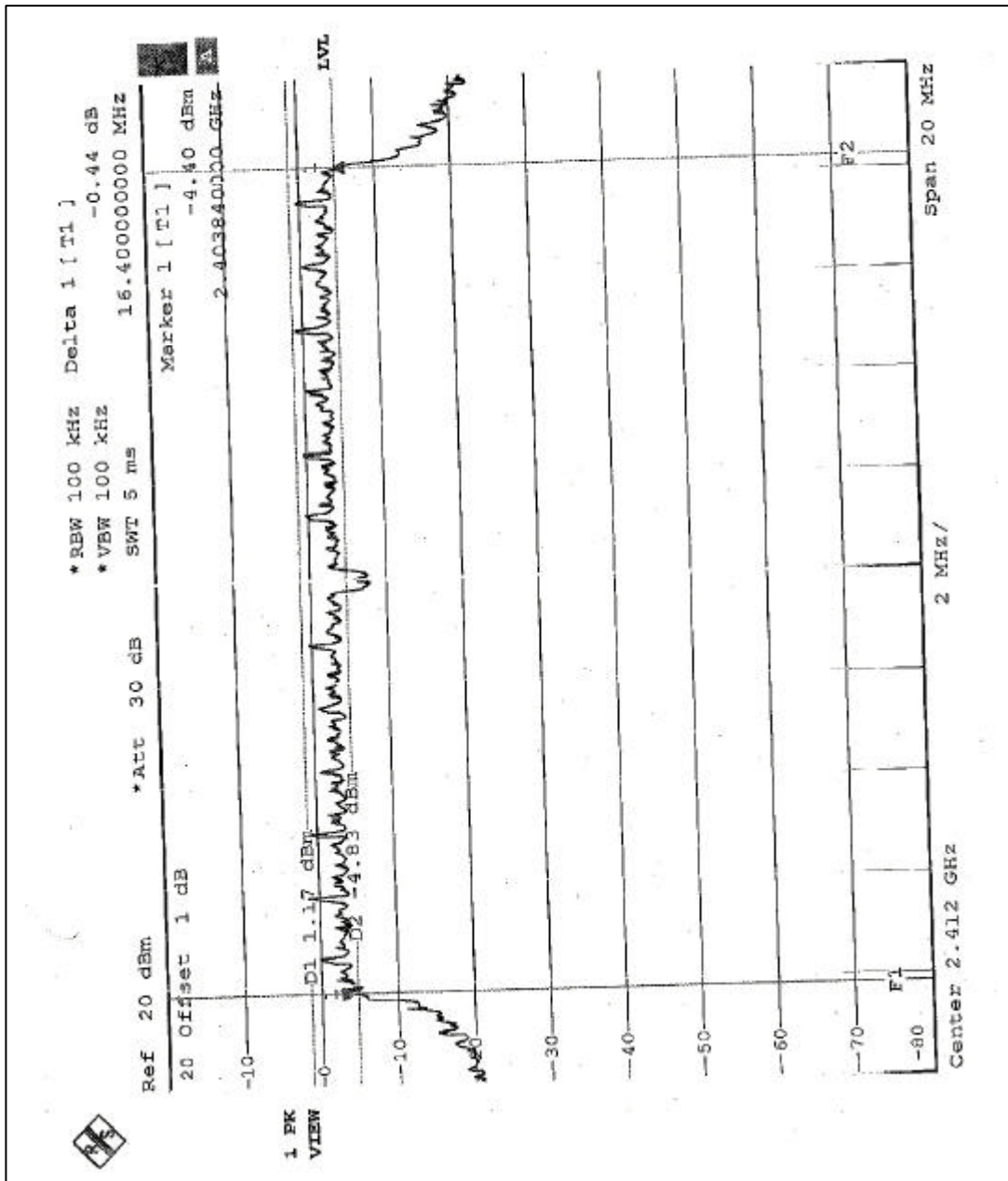
## 4.3.7 TEST RESULTS-OFDM

|                             |                   |                                 |                            |
|-----------------------------|-------------------|---------------------------------|----------------------------|
| <b>EUT</b>                  | 802.11b/g Cardbus | <b>MODEL</b>                    | G11FNF-PC                  |
| <b>INPUT POWER (SYSTEM)</b> | 120Vac, 60 Hz     | <b>ENVIRONMENTAL CONDITIONS</b> | 21 deg. C, 62 %RH, 979 hPa |
| <b>TEST MODE</b>            | Antenna 1&3       | <b>TESTED BY</b>                | Hunk Chung                 |

| <b>CHANNEL</b> | <b>CHANNEL FREQUENCY (MHz)</b> | <b>6 dB BANDWIDTH (MHz)</b> | <b>MINIMUM LIMIT (MHz)</b> | <b>PASS/FAIL</b> |
|----------------|--------------------------------|-----------------------------|----------------------------|------------------|
| 1              | 2412                           | 16.4                        | 0.5                        | PASS             |
| 6              | 2437                           | 16.4                        | 0.5                        | PASS             |
| 11             | 2462                           | 16.44                       | 0.5                        | PASS             |

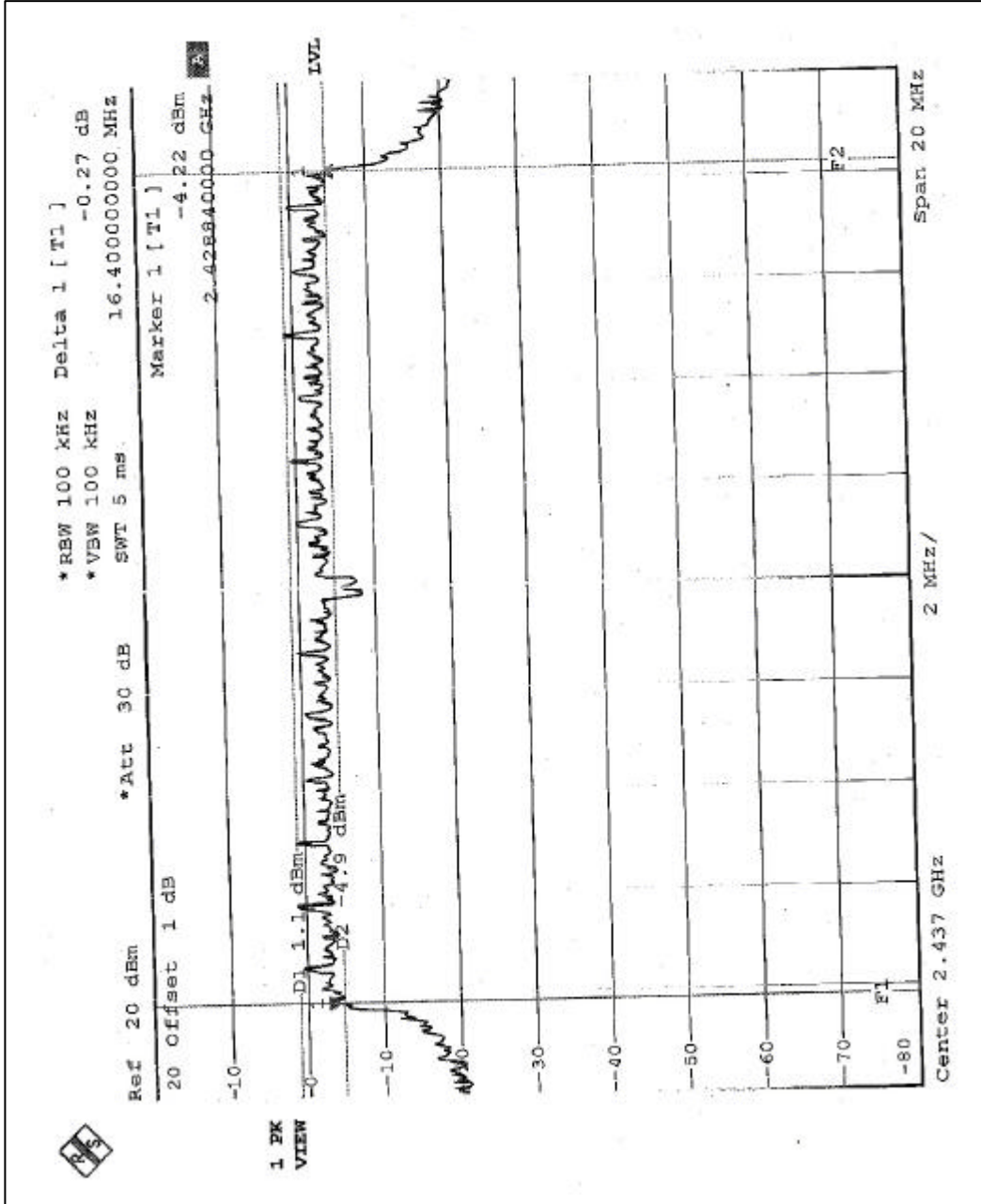


CH1





CH6





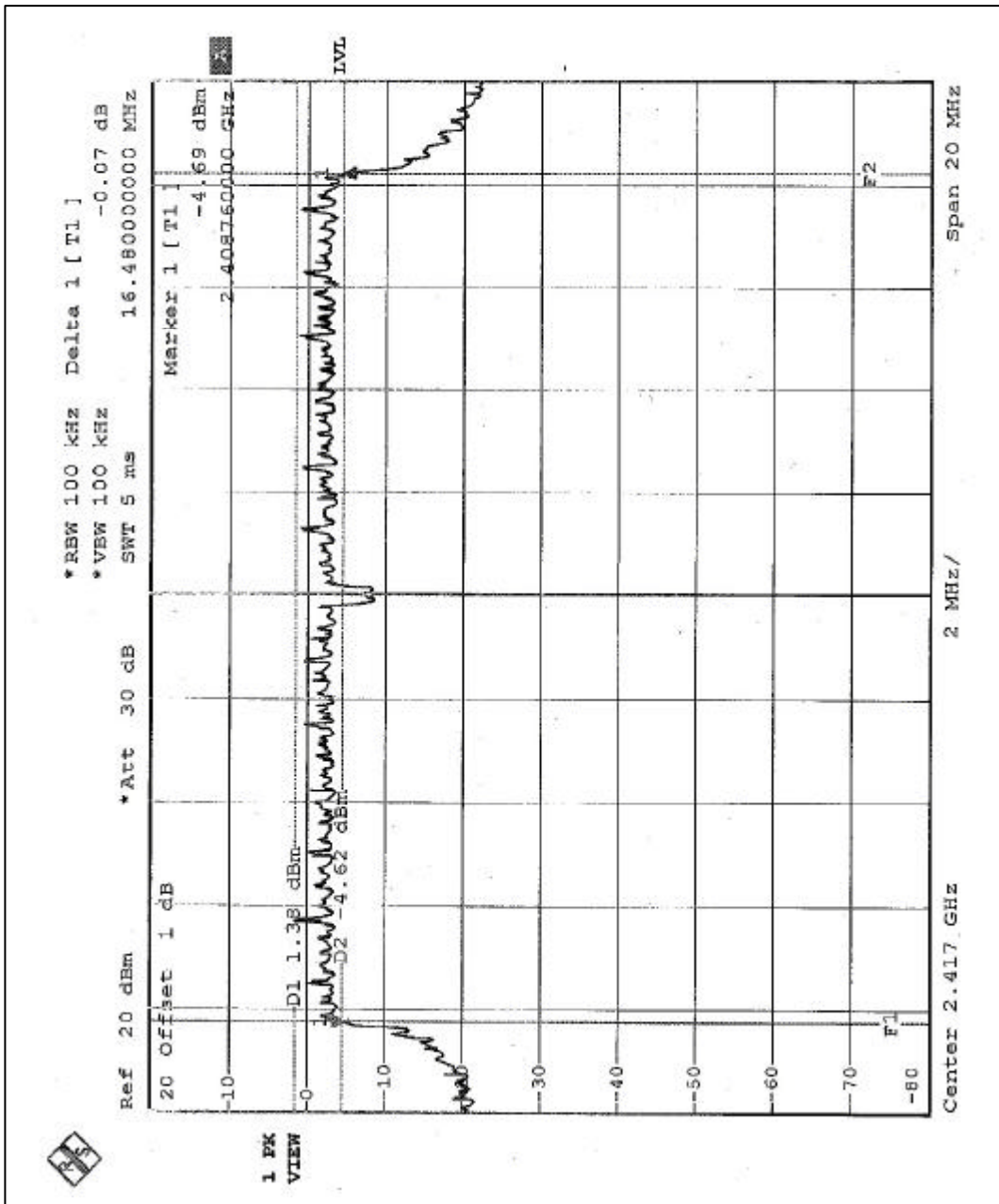


|                             |                   |                                 |                            |
|-----------------------------|-------------------|---------------------------------|----------------------------|
| <b>EUT</b>                  | 802.11b/g Cardbus | <b>MODEL</b>                    | G11FNF-PC                  |
| <b>INPUT POWER (SYSTEM)</b> | 120Vac, 60 Hz     | <b>ENVIRONMENTAL CONDITIONS</b> | 21 deg. C, 62 %RH, 979 hPa |
| <b>TEST MODE</b>            | Antenna 1&3       | <b>TESTED BY</b>                | Hunk Chung                 |

| <b>CHANNEL</b> | <b>CHANNEL FREQUENCY (MHz)</b> | <b>6 dB BANDWIDTH (MHz)</b> | <b>MINIMUM LIMIT (MHz)</b> | <b>PASS/FAIL</b> |
|----------------|--------------------------------|-----------------------------|----------------------------|------------------|
| 2              | 2417                           | 16.48                       | 0.5                        | PASS             |
| 6              | 2437                           | 16.4                        | 0.5                        | PASS             |
| 10             | 2457                           | 16.4                        | 0.5                        | PASS             |



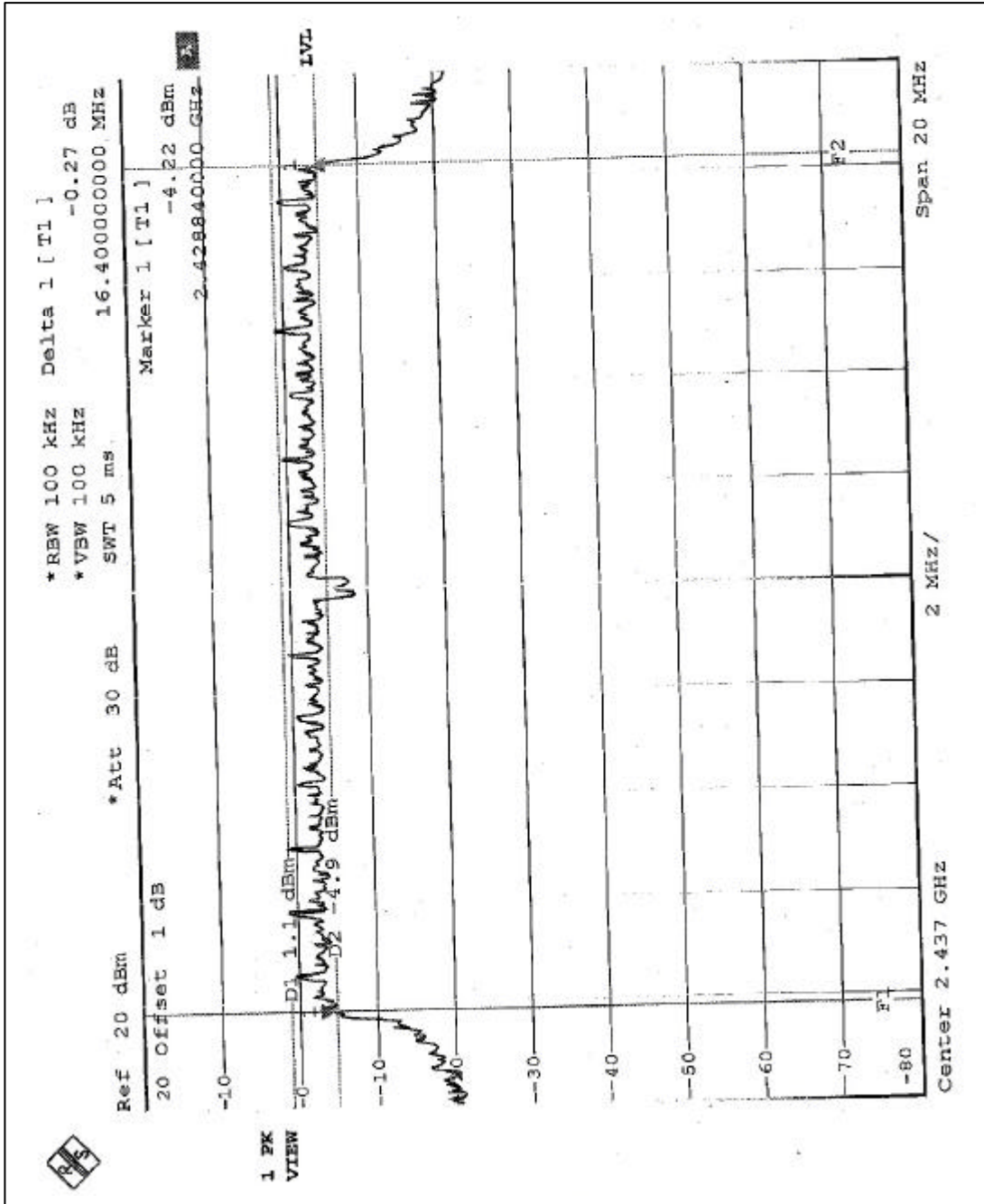
CH2





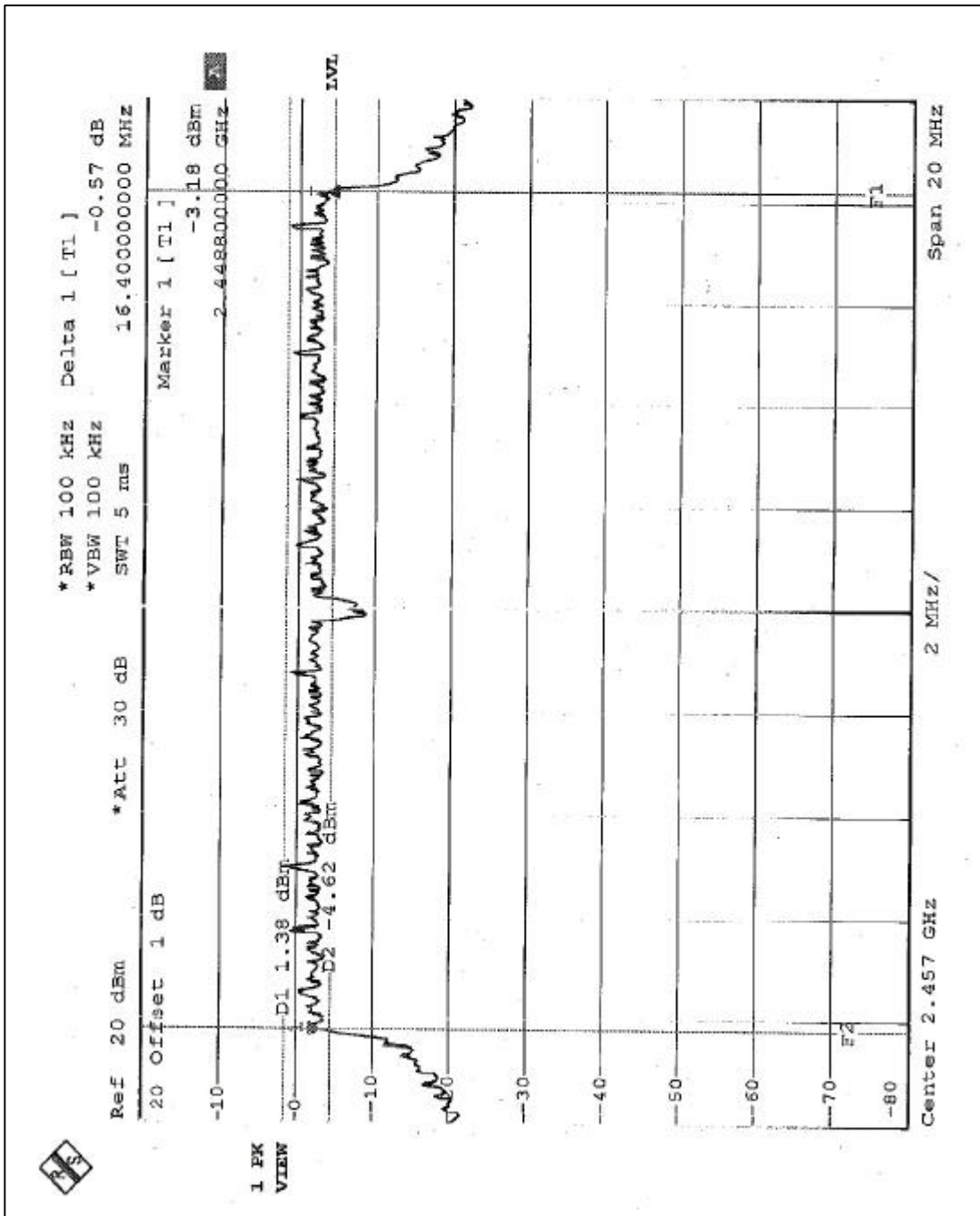


CH6





CH10





#### 4.4 MAXIMUM PEAK OUTPUT POWER

##### 4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

##### 4.4.2 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|----------------------------|-----------|------------|------------------|
| POWER METER                | E4416A    | GB41291118 | July 30, 2003    |
| PEAK POWER SENSOR          | E9327A    | US40440722 | July 30, 2003    |

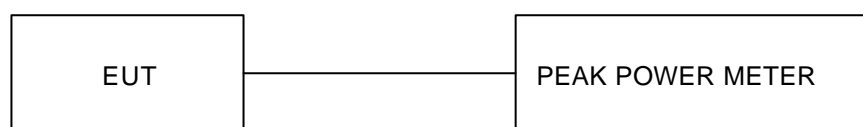
**NOTE:**

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

#### 4.4.3 TEST PROCEDURES

The transmitter output was connected to the peak power meter.

#### 4.4.4 TEST SETUP



#### 4.4.5 EUT OPERATING CONDITIONS

Same as Item 4.3.5



## 4.4.6 TEST RESULTS(A)-DSSS

|                             |                   |                                 |                            |
|-----------------------------|-------------------|---------------------------------|----------------------------|
| <b>EUT</b>                  | 802.11b/g Cardbus | <b>MODEL</b>                    | G11FNF-PC                  |
| <b>INPUT POWER (SYSTEM)</b> | 120Vac, 60 Hz     | <b>ENVIRONMENTAL CONDITIONS</b> | 21 deg. C, 62 %RH, 979 hPa |
| <b>TEST MODE</b>            | Antenna 1         | <b>TESTED BY</b>                | Hank Chung                 |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | PEAK POWER LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|-------------------------|------------------------|-----------|
| 1       | 2412                    | 15.02                   | 30                     | PASS      |
| 6       | 2437                    | 15.28                   | 30                     | PASS      |
| 11      | 2462                    | 15.19                   | 30                     | PASS      |

## 4.4.7 TEST RESULTS(A)-OFDM

|                             |                   |                                 |                            |
|-----------------------------|-------------------|---------------------------------|----------------------------|
| <b>EUT</b>                  | 802.11b/g Cardbus | <b>MODEL</b>                    | G11FNF-PC                  |
| <b>INPUT POWER (SYSTEM)</b> | 120Vac, 60 Hz     | <b>ENVIRONMENTAL CONDITIONS</b> | 21 deg. C, 62 %RH, 979 hPa |
| <b>TEST MODE</b>            | Antenna 1         | <b>TESTED BY</b>                | Hank Chung                 |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | PEAK POWER LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|-------------------------|------------------------|-----------|
| 1       | 2412                    | 15.44                   | 30                     | PASS      |
| 6       | 2437                    | 15.26                   | 30                     | PASS      |
| 11      | 2462                    | 15.1                    | 30                     | PASS      |



## 4.4.8 TEST RESULTS(B)-DSSS

|                             |                   |                                 |                            |
|-----------------------------|-------------------|---------------------------------|----------------------------|
| <b>EUT</b>                  | 802.11b/g Cardbus | <b>MODEL</b>                    | G11FNF-PC                  |
| <b>INPUT POWER (SYSTEM)</b> | 120Vac, 60 Hz     | <b>ENVIRONMENTAL CONDITIONS</b> | 21 deg. C, 62 %RH, 979 hPa |
| <b>TEST MODE</b>            | Antenna 2         | <b>TESTED BY</b>                | Hank Chung                 |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | PEAK POWER LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|-------------------------|------------------------|-----------|
| 2       | 2417                    | 15.31                   | 30                     | PASS      |
| 6       | 2437                    | 15.28                   | 30                     | PASS      |
| 10      | 2457                    | 15.42                   | 30                     | PASS      |

## 4.4.9 TEST RESULTS(B)-OFDM

|                             |                   |                                 |                            |
|-----------------------------|-------------------|---------------------------------|----------------------------|
| <b>EUT</b>                  | 802.11b/g Cardbus | <b>MODEL</b>                    | G11FNF-PC                  |
| <b>INPUT POWER (SYSTEM)</b> | 120Vac, 60 Hz     | <b>ENVIRONMENTAL CONDITIONS</b> | 21 deg. C, 62 %RH, 979 hPa |
| <b>TEST MODE</b>            | Antenna 2         | <b>TESTED BY</b>                | Hank Chung                 |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | PEAK POWER LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|-------------------------|------------------------|-----------|
| 2       | 2417                    | 15.92                   | 30                     | PASS      |
| 6       | 2437                    | 15.26                   | 30                     | PASS      |
| 10      | 2457                    | 15.79                   | 30                     | PASS      |



## 4.4.10 TEST RESULTS(C)-DSSS

|                             |                   |                                 |                            |
|-----------------------------|-------------------|---------------------------------|----------------------------|
| <b>EUT</b>                  | 802.11b/g Cardbus | <b>MODEL</b>                    | G11FNF-PC                  |
| <b>INPUT POWER (SYSTEM)</b> | 120Vac, 60 Hz     | <b>ENVIRONMENTAL CONDITIONS</b> | 21 deg. C, 62 %RH, 979 hPa |
| <b>TEST MODE</b>            | Antenna 3         | <b>TESTED BY</b>                | Hank Chung                 |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | PEAK POWER LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|-------------------------|------------------------|-----------|
| 1       | 2412                    | 15.02                   | 30                     | PASS      |
| 6       | 2437                    | 15.28                   | 30                     | PASS      |
| 11      | 2462                    | 15.19                   | 30                     | PASS      |

## 4.4.11 TEST RESULTS(C)-OFDM

|                             |                   |                                 |                            |
|-----------------------------|-------------------|---------------------------------|----------------------------|
| <b>EUT</b>                  | 802.11b/g Cardbus | <b>MODEL</b>                    | G11FNF-PC                  |
| <b>INPUT POWER (SYSTEM)</b> | 120Vac, 60 Hz     | <b>ENVIRONMENTAL CONDITIONS</b> | 21 deg. C, 62 %RH, 979 hPa |
| <b>TEST MODE</b>            | Antenna 3         | <b>TESTED BY</b>                | Hank Chung                 |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | PEAK POWER LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|-------------------------|------------------------|-----------|
| 1       | 2412                    | 15.44                   | 30                     | PASS      |
| 6       | 2437                    | 15.26                   | 30                     | PASS      |
| 11      | 2462                    | 15.1                    | 30                     | PASS      |



## 4.5 POWER SPECTRAL DENSITY MEASUREMENT

### 4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

### 4.5.2 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No.   | Calibrated Until |
|----------------------------|-----------|--------------|------------------|
| R&S SPECTRUM ANALYZER      | FSP       | 1093.4495.30 | Dec. 19, 2003    |

**NOTE:**

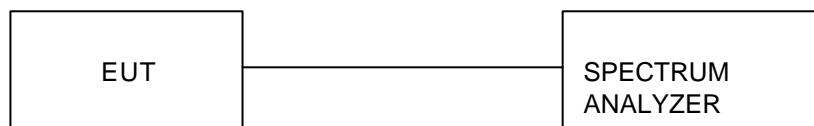
- 1.The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
- 2.The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.



#### 4.5.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3 kHz RBW and 30 kHz VBW, set sweep time=span/3kHz. The power spectral density was measured and recorded. The sweep time is allowed to be longer than span/3KHz for a full response of the mixer in the spectrum analyzer.

#### 4.5.4 TEST SETUP



#### 4.5.5 EUT OPERATING CONDITIONS

Same as 4.3.5



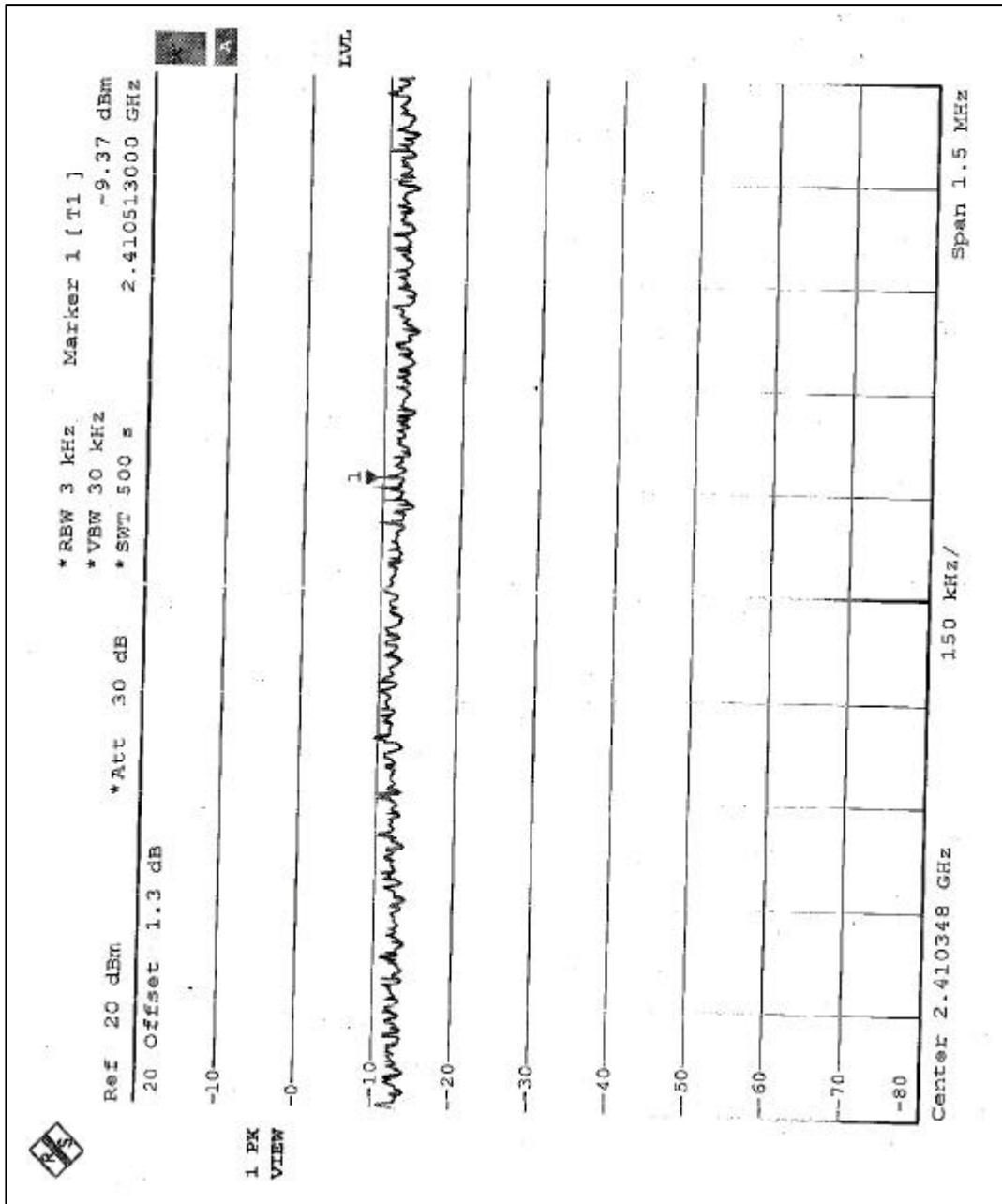
## 4.5.6 TEST RESULTS-DSSS

|                             |                   |                                 |                            |
|-----------------------------|-------------------|---------------------------------|----------------------------|
| <b>EUT</b>                  | 802.11b/g Cardbus | <b>MODEL</b>                    | G11FNF-PC                  |
| <b>INPUT POWER (SYSTEM)</b> | 120Vac, 60 Hz     | <b>ENVIRONMENTAL CONDITIONS</b> | 21 deg. C, 62 %RH, 979 hPa |
| <b>TEST MODE</b>            | Antenna 1&3       | <b>TESTED BY</b>                | Hank Chung                 |

| <b>CHANNEL NUMBER</b> | <b>CHANNEL FREQUENCY (MHz )</b> | <b>RF POWER LEVEL IN 3 KHz BW (dBm)</b> | <b>MAXIMUM LIMIT (dBm)</b> | <b>PASS/FAIL</b> |
|-----------------------|---------------------------------|---|----------------------------|------------------|
| 1                     | 2412                            | -9.37                                   | 8                          | PASS             |
| 6                     | 2437                            | -8.46                                   | 8                          | PASS             |
| 11                    | 2462                            | -8.65                                   | 8                          | PASS             |

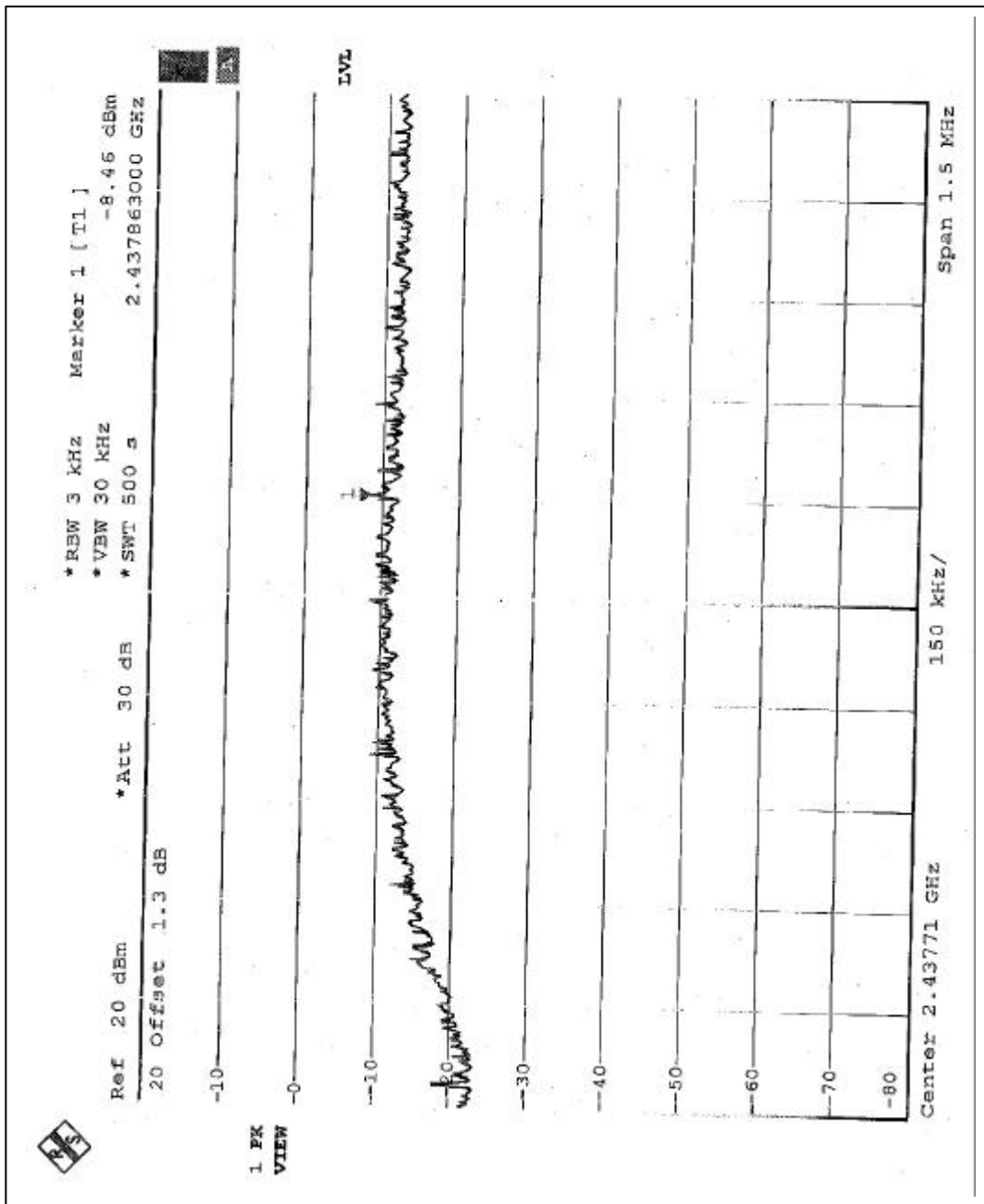


CH1



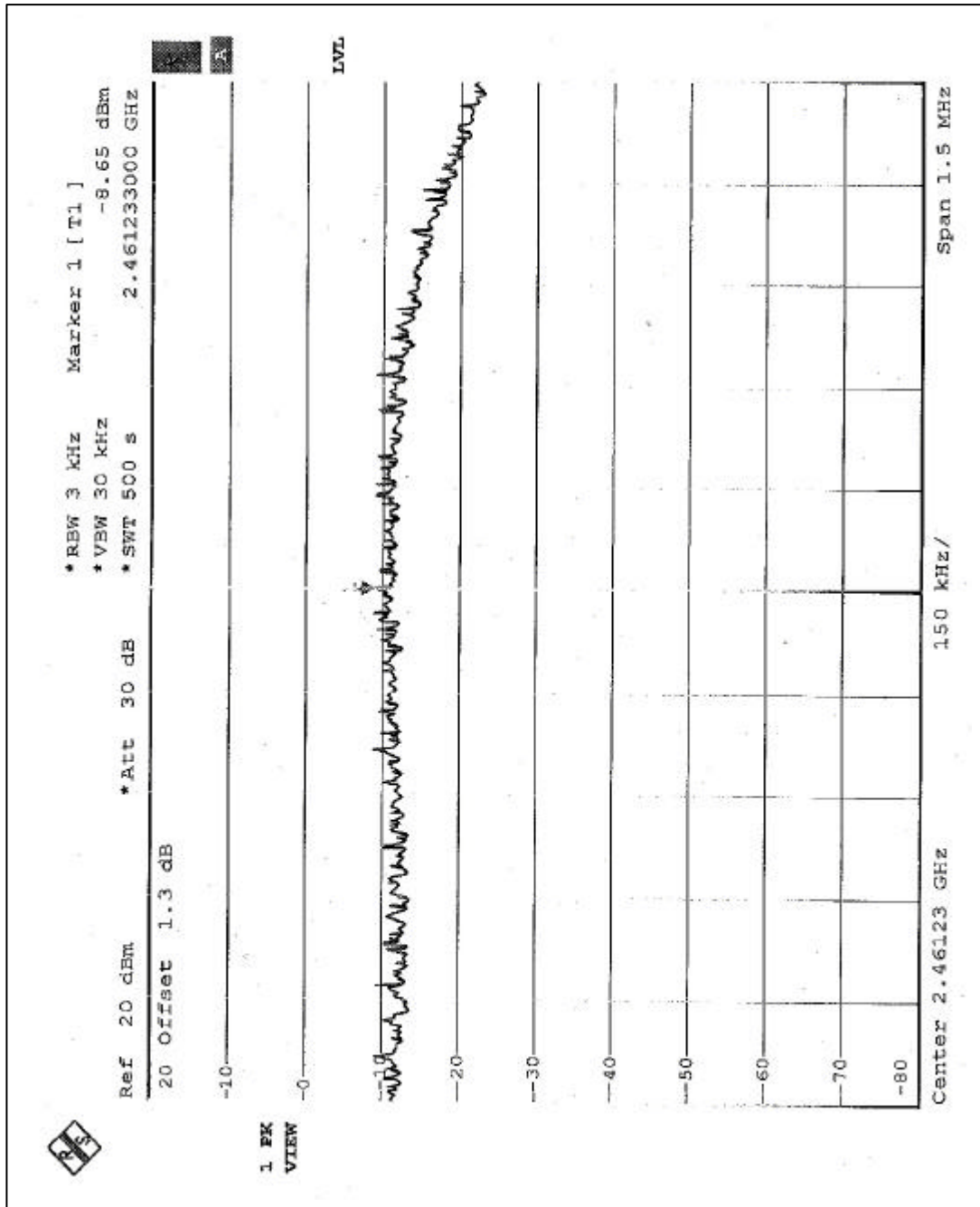


CH6





CH11



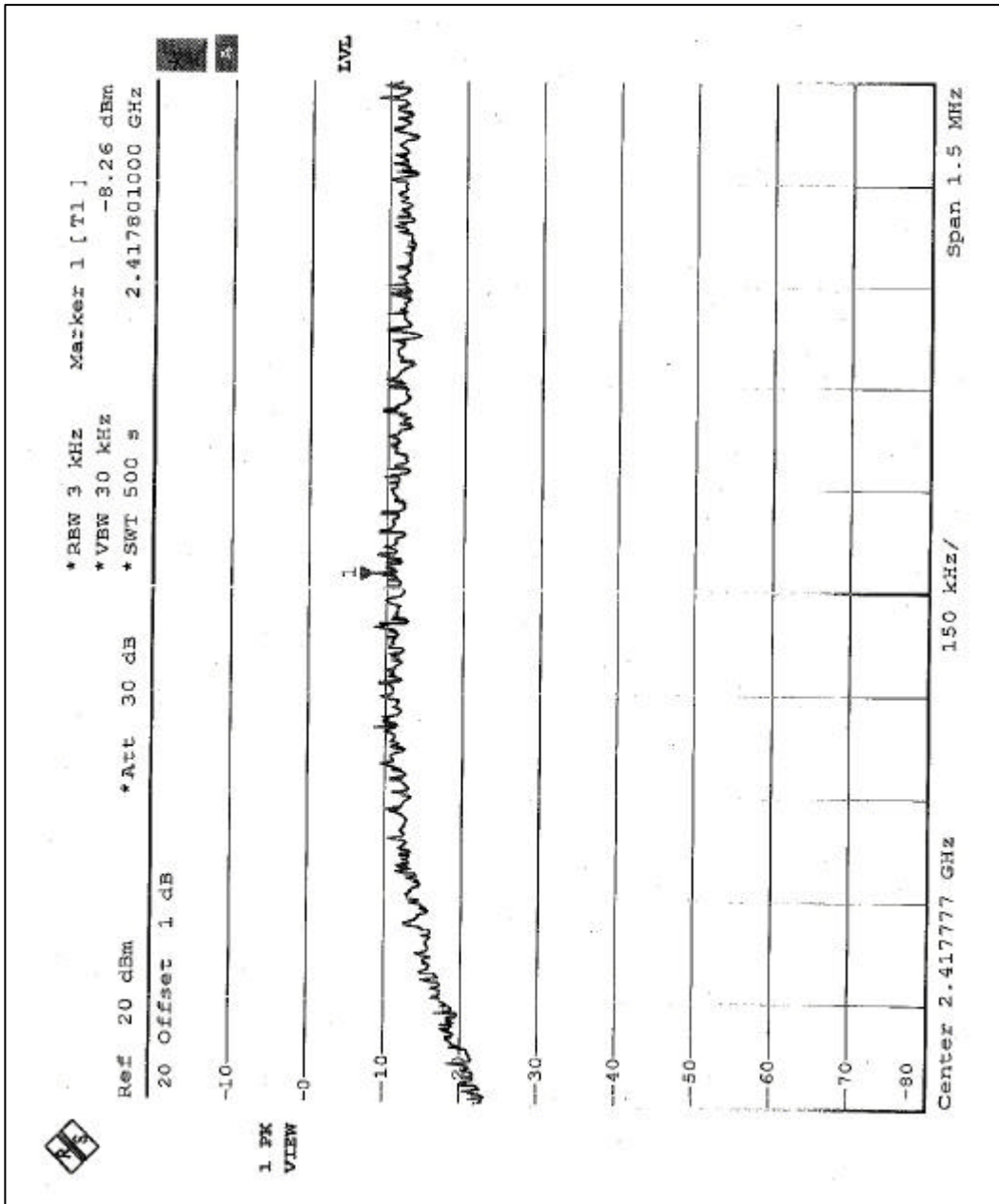


|                             |                   |                                 |                            |
|-----------------------------|-------------------|---------------------------------|----------------------------|
| <b>EUT</b>                  | 802.11b/g Cardbus | <b>MODEL</b>                    | G11FNF-PC                  |
| <b>INPUT POWER (SYSTEM)</b> | 120Vac, 60 Hz     | <b>ENVIRONMENTAL CONDITIONS</b> | 21 deg. C, 62 %RH, 979 hPa |
| <b>TEST MODE</b>            | Antenna 2         | <b>TESTED BY</b>                | Hank Chung                 |

| <b>CHANNEL NUMBER</b> | <b>CHANNEL FREQUENCY (MHz )</b> | <b>RF POWER LEVEL IN 3 KHz BW (dBm)</b> | <b>MAXIMUM LIMIT (dBm)</b> | <b>PASS/FAIL</b> |
|-----------------------|---------------------------------|---|----------------------------|------------------|
| 2                     | 2417                            | -8.26                                   | 8                          | PASS             |
| 6                     | 2437                            | -8.46                                   | 8                          | PASS             |
| 10                    | 2457                            | -8.78                                   | 8                          | PASS             |

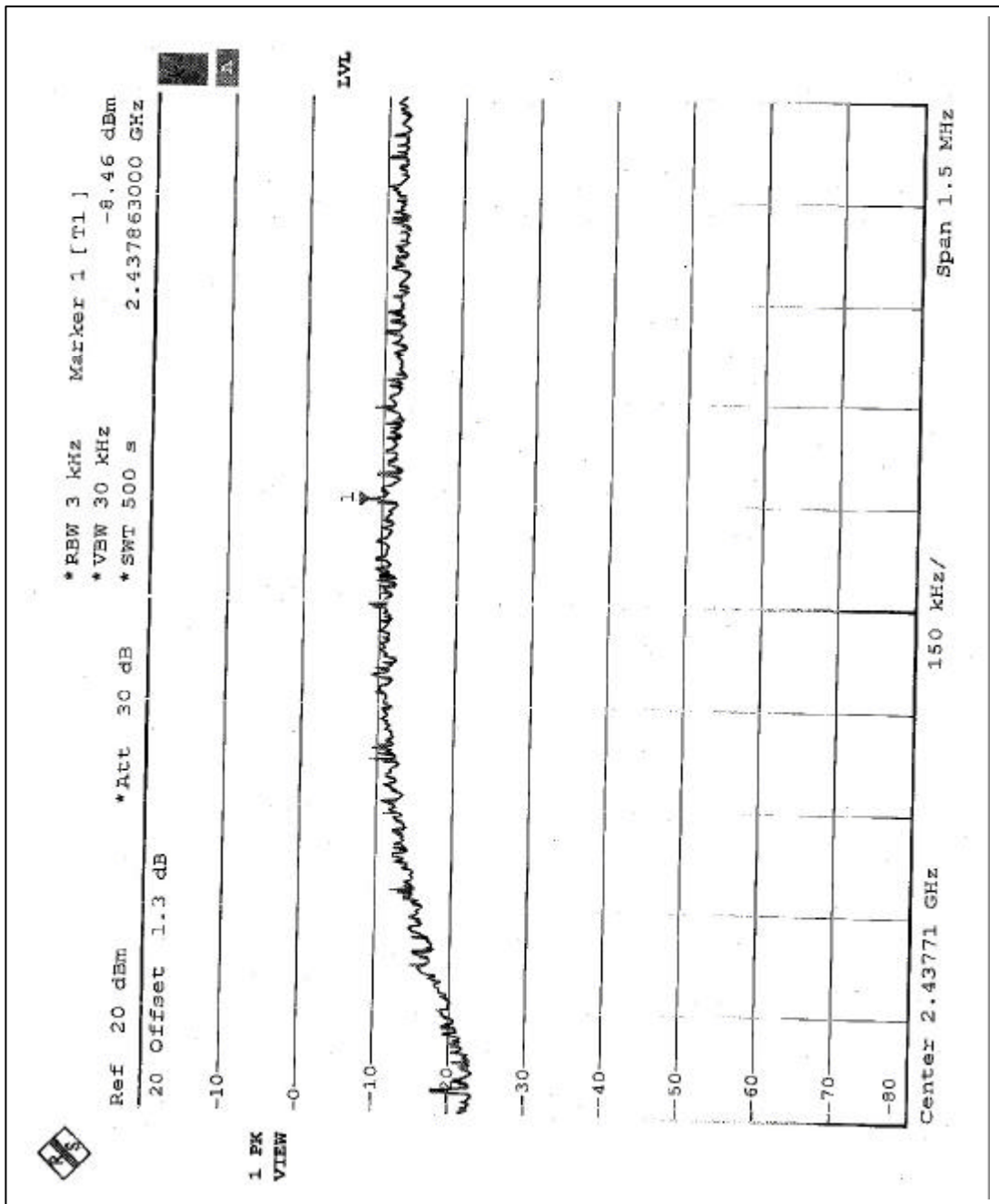


CH2





CH6







CH10

