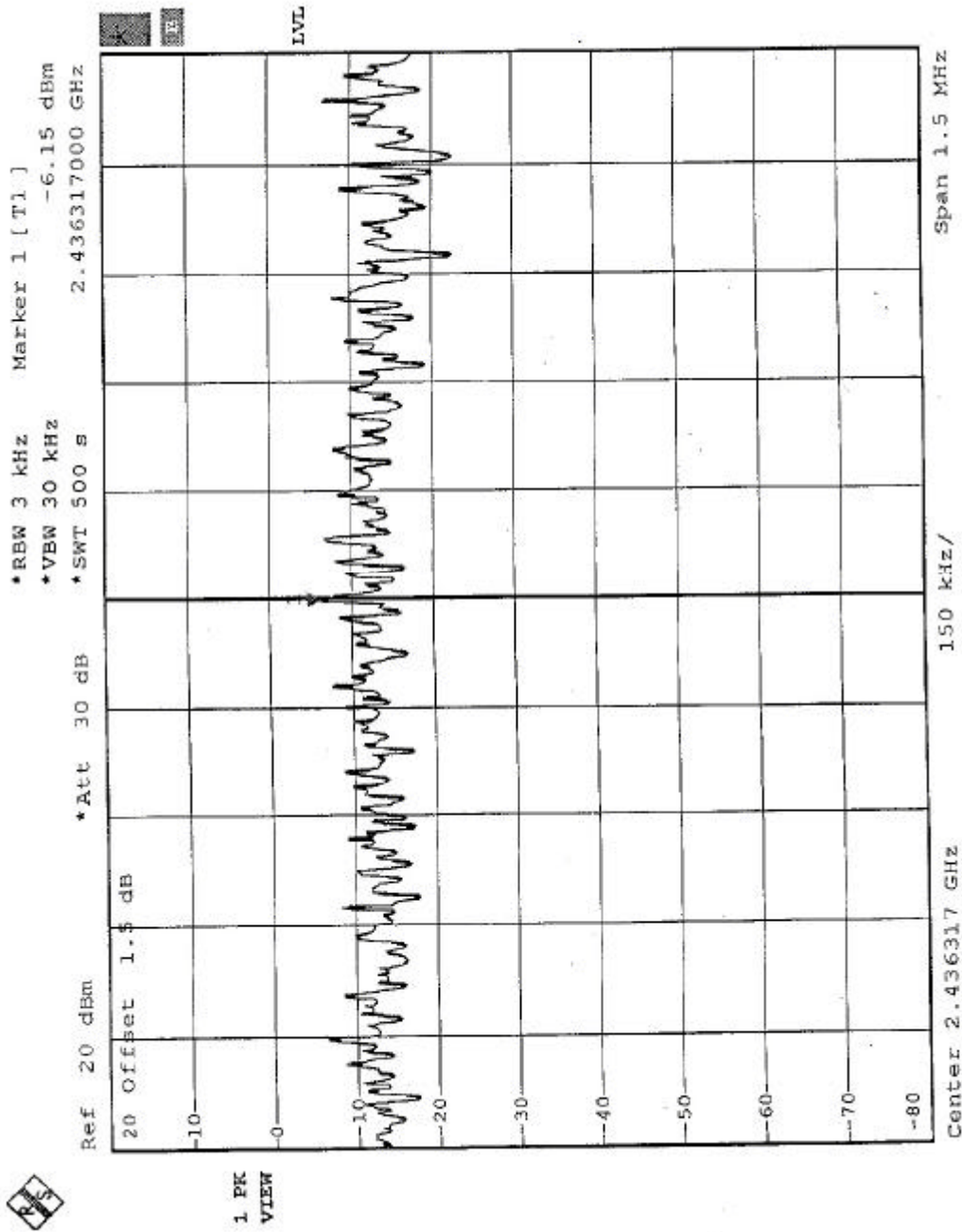


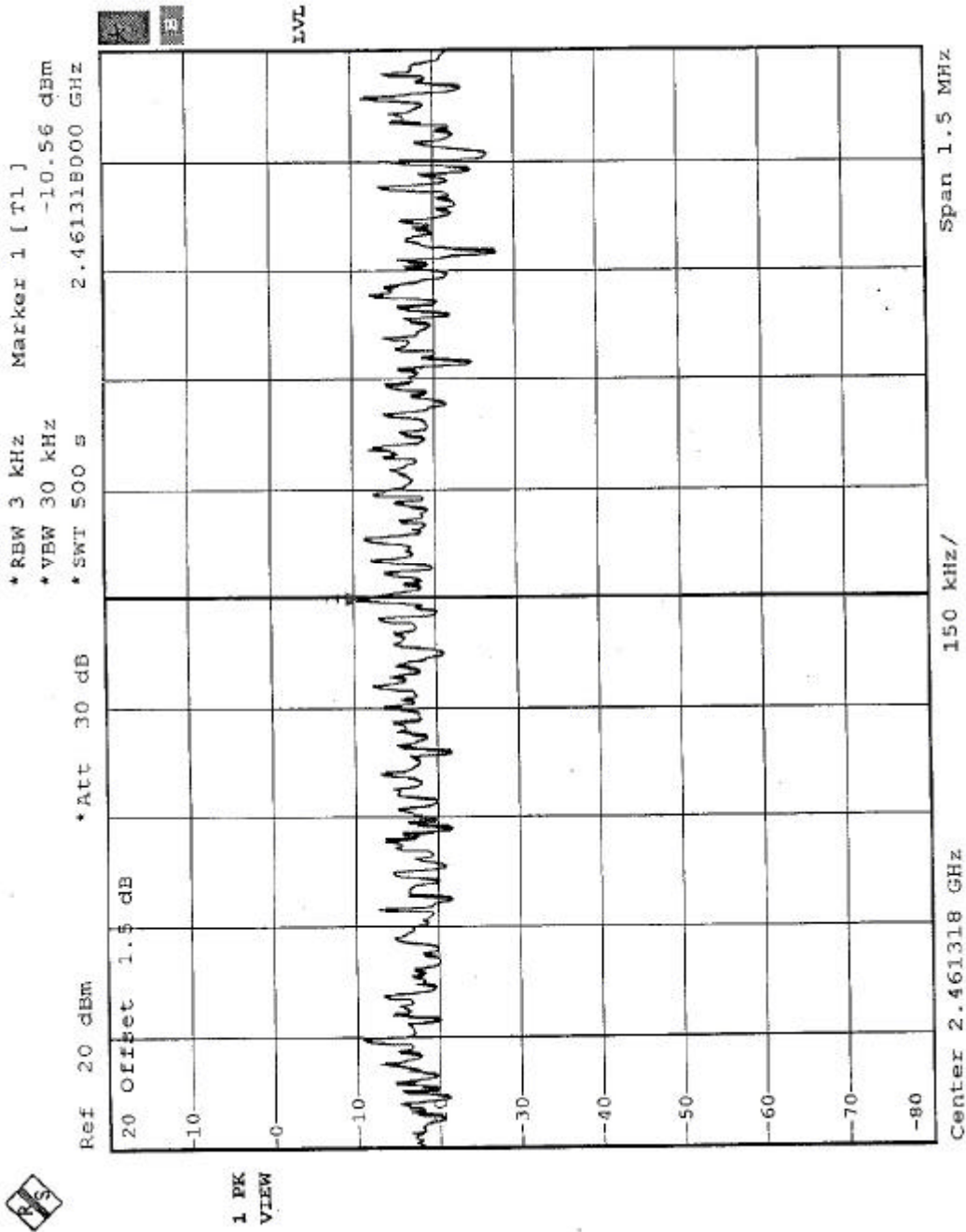


CH6





CH11





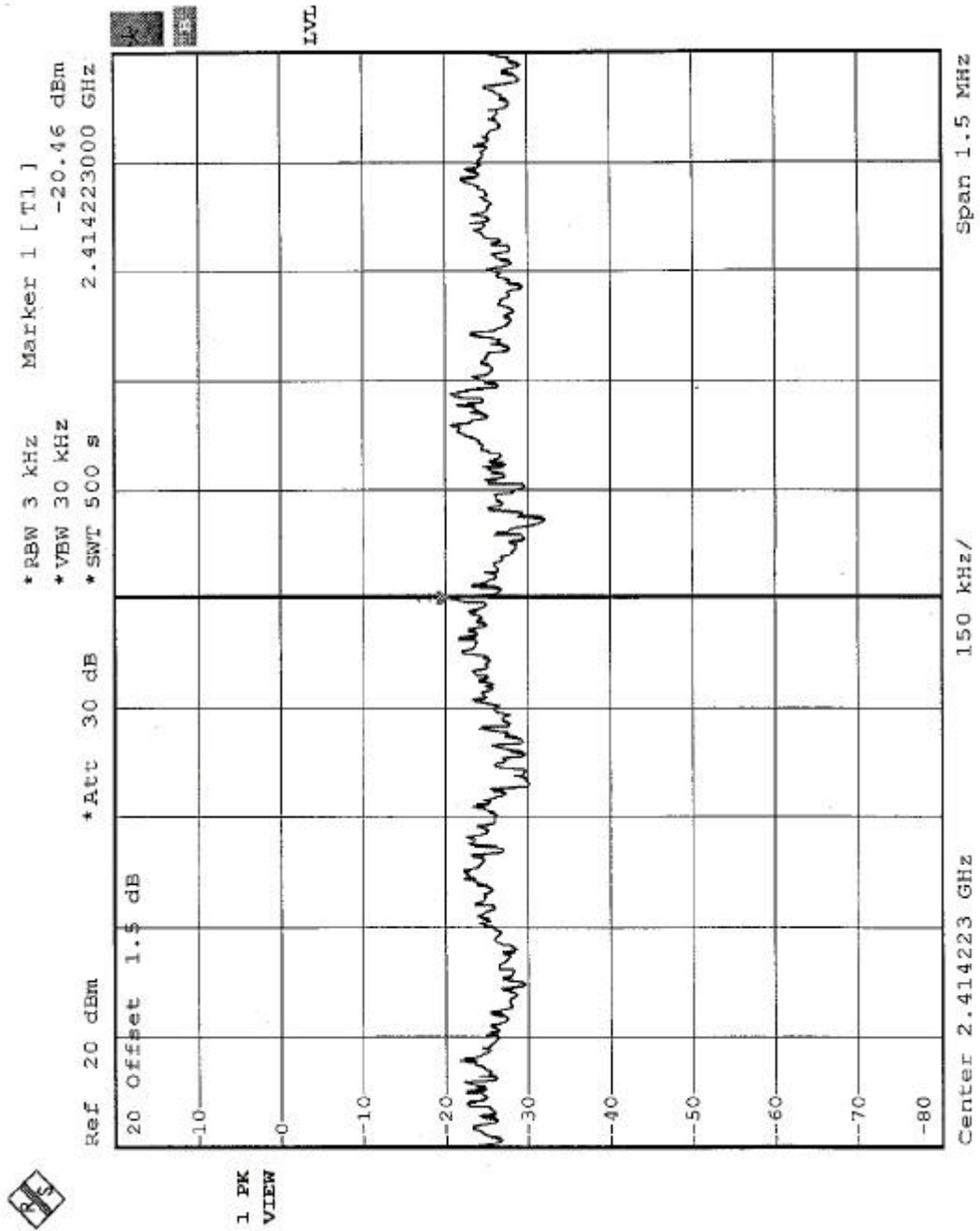
4.5.7 TEST RESULTS(A)-OFDM

| | | | |
|-----------------------------|----------------------|---------------------------------|----------------------------|
| EUT | IEEE 802.11g miniPCI | MODEL | WN4401 |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 20 deg. C, 60 %RH, 979 hPa |
| TEST MODE | Antenna 1 | TESTED BY | Hank Chung |

| CHANNEL NUMBER | CHANNEL FREQUENCY (MHz) | RF POWER LEVEL IN 3 KHz BW (dBm) | MAXIMUM LIMIT (dBm) | PASS/FAIL |
|-----------------------|---------------------------------|---|----------------------------|------------------|
| 1 | 2412 | -20.46 | 8 | PASS |
| 6 | 2437 | -9.29 | 8 | PASS |
| 11 | 2462 | -20.98 | 8 | PASS |

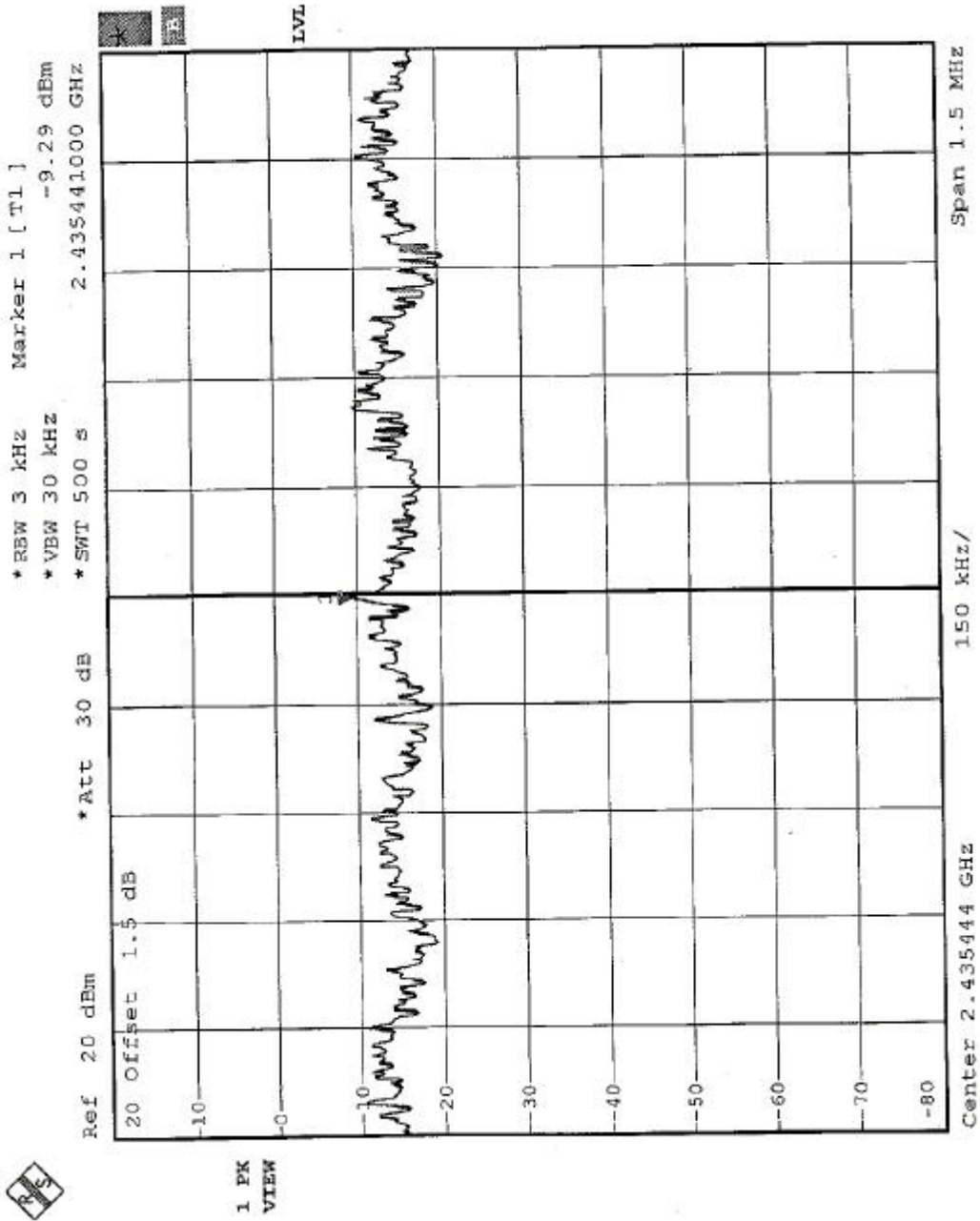


CH1



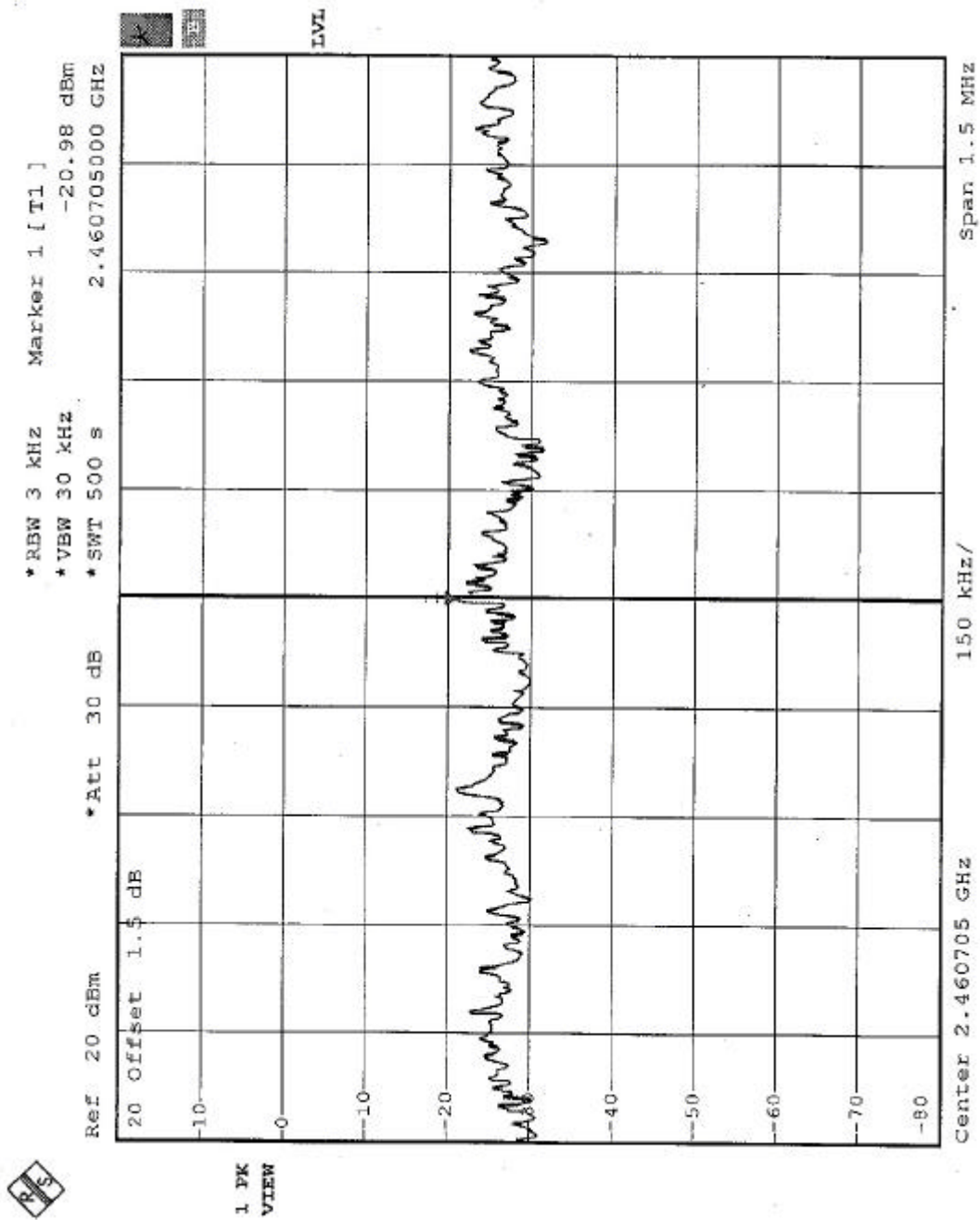


CH6





CH11





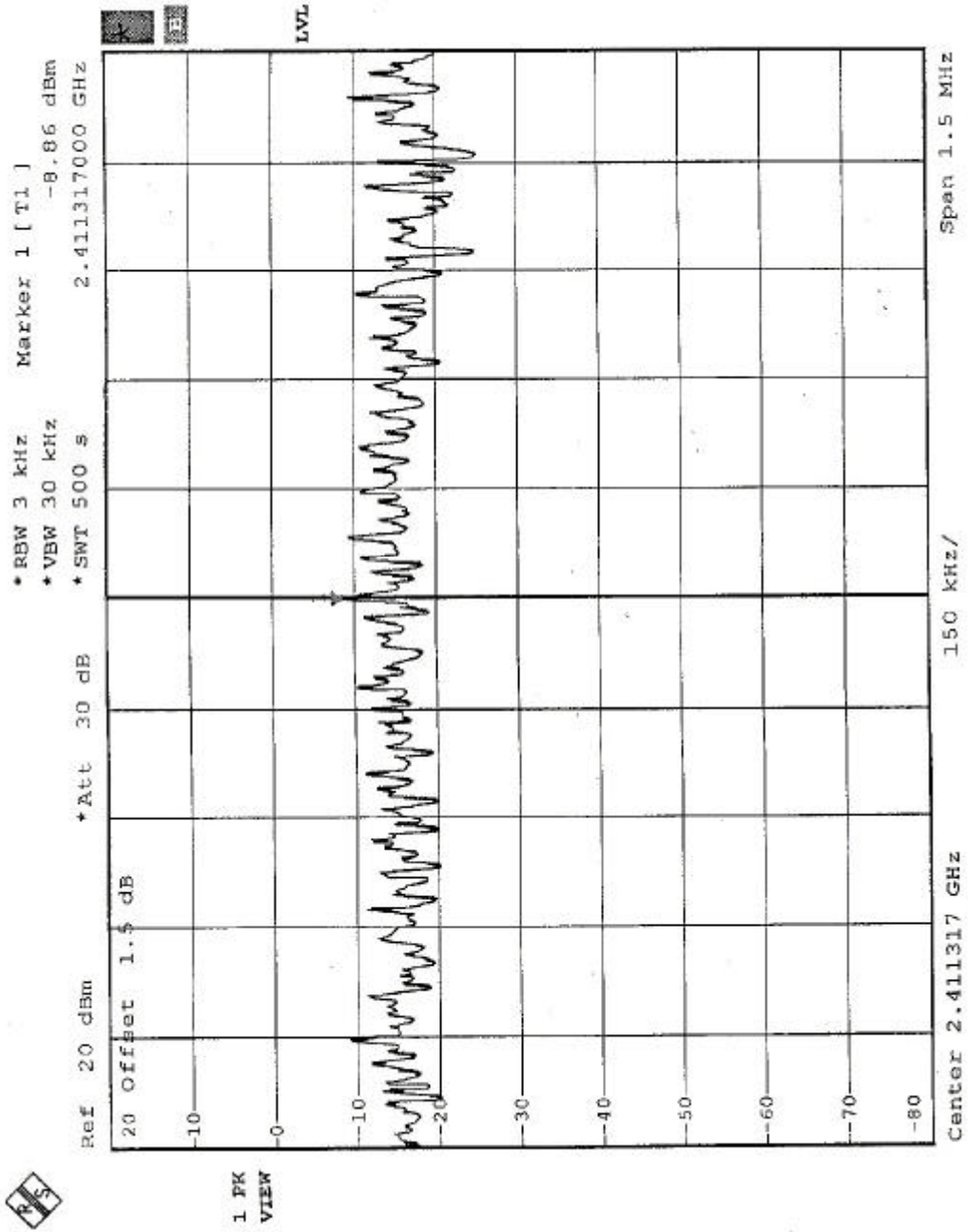
4.5.8 TEST RESULTS(B)-DSSS

| | | | |
|-----------------------------|----------------------|---------------------------------|----------------------------|
| EUT | IEEE 802.11g miniPCI | MODEL | WN4401 |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 20 deg. C, 60 %RH, 979 hPa |
| TEST MODE | Antenna 2 | TESTED BY | Hank Chung |

| CHANNEL NUMBER | CHANNEL FREQUENCY (MHz) | RF POWER LEVEL IN 3 KHz BW (dBm) | MAXIMUM LIMIT (dBm) | PASS/FAIL |
|-----------------------|---------------------------------|---|----------------------------|------------------|
| 1 | 2412 | -8.86 | 8 | PASS |
| 6 | 2437 | -6.13 | 8 | PASS |
| 11 | 2462 | -8.66 | 8 | PASS |

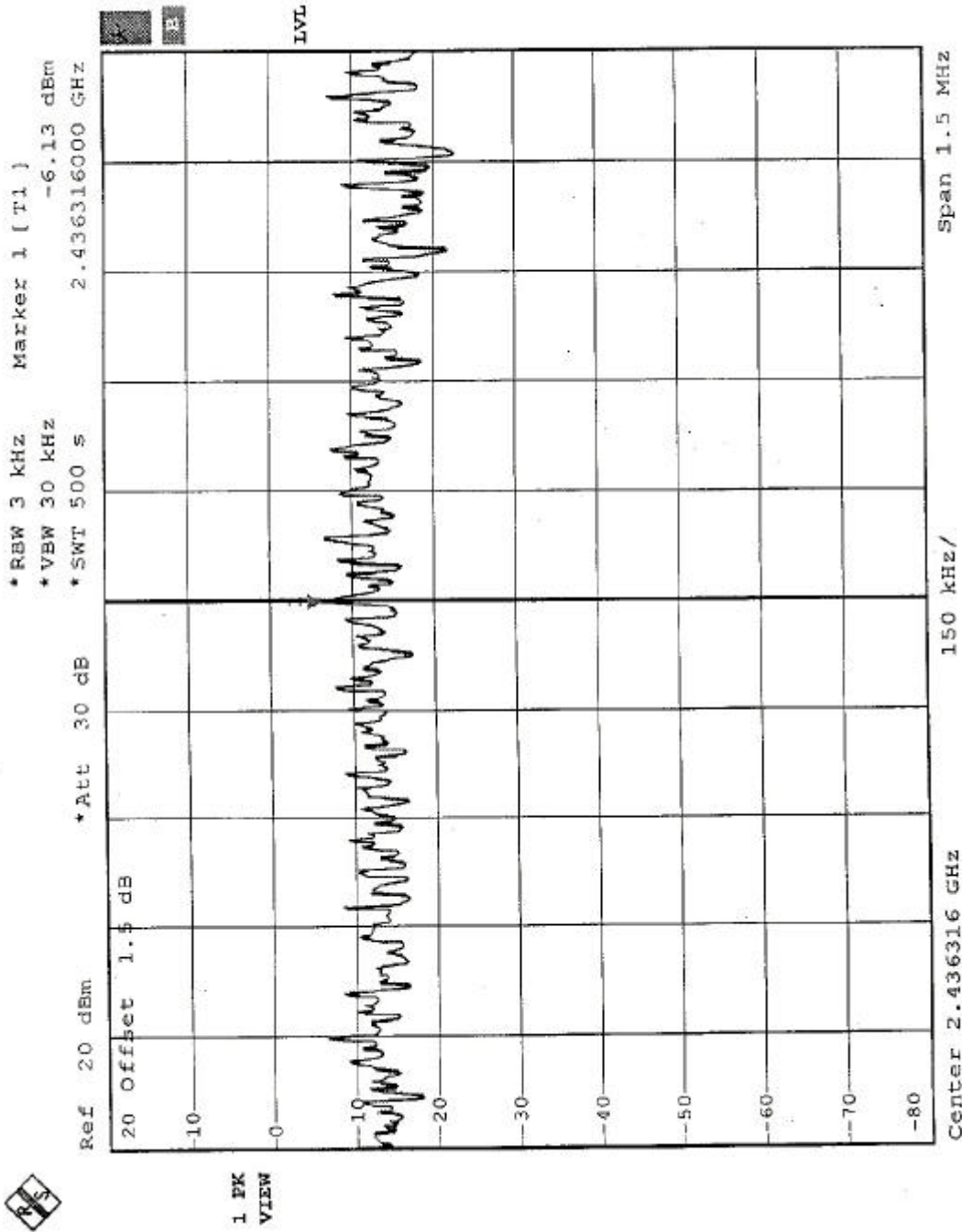


CH1



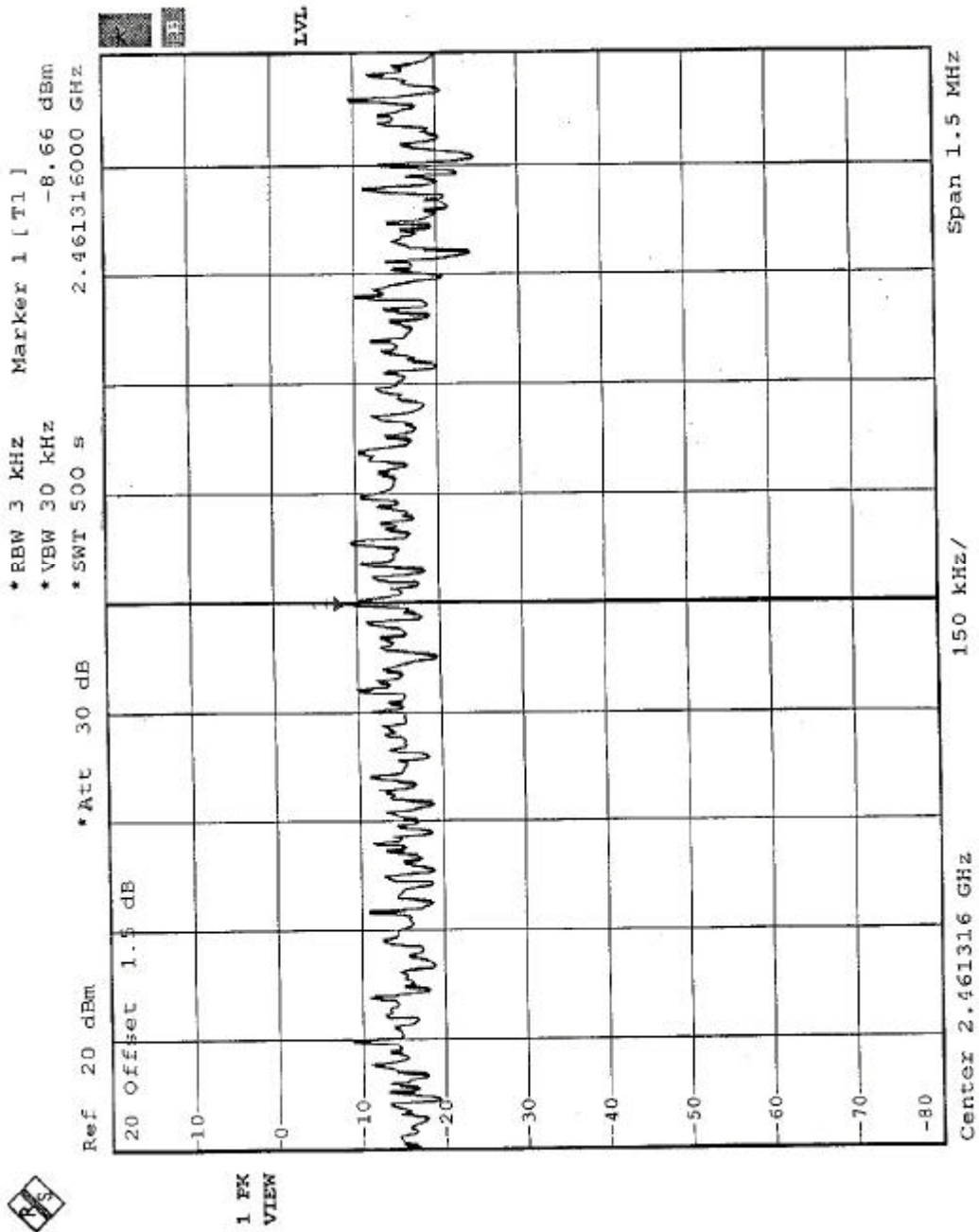


CH6





CH11





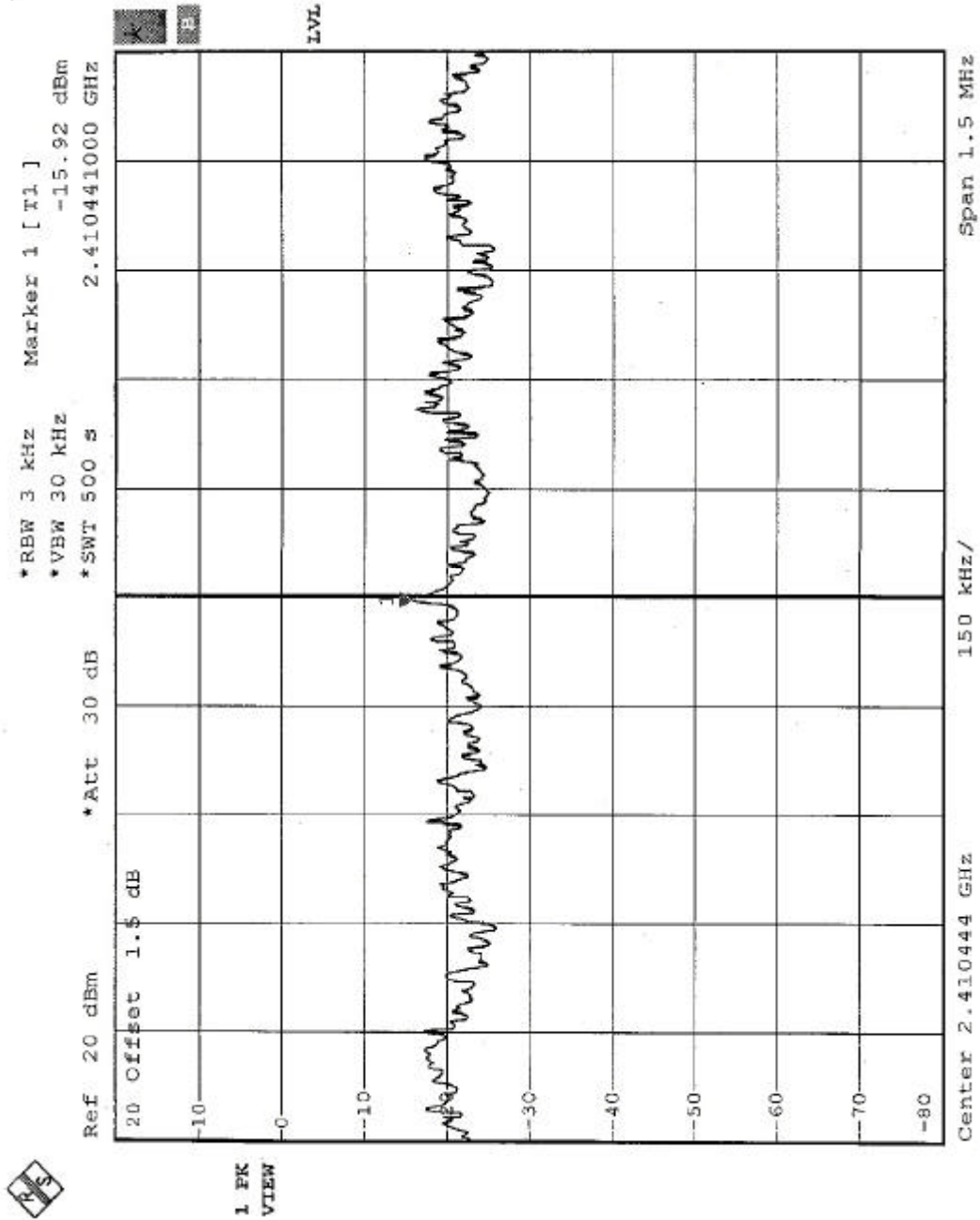
4.5.9 TEST RESULTS(B)-OFDM

| | | | |
|-----------------------------|----------------------|---------------------------------|----------------------------|
| EUT | IEEE 802.11g miniPCI | MODEL | WN4401 |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 20 deg. C, 60 %RH, 979 hPa |
| TEST MODE | Antenna 2 | TESTED BY | Hank Chung |

| CHANNEL NUMBER | CHANNEL FREQUENCY (MHz) | RF POWER LEVEL IN 3 KHz BW (dBm) | MAXIMUM LIMIT (dBm) | PASS/FAIL |
|-----------------------|---------------------------------|---|----------------------------|------------------|
| 1 | 2412 | -15.92 | 8 | PASS |
| 6 | 2437 | -9.26 | 8 | PASS |
| 11 | 2462 | -21.61 | 8 | PASS |

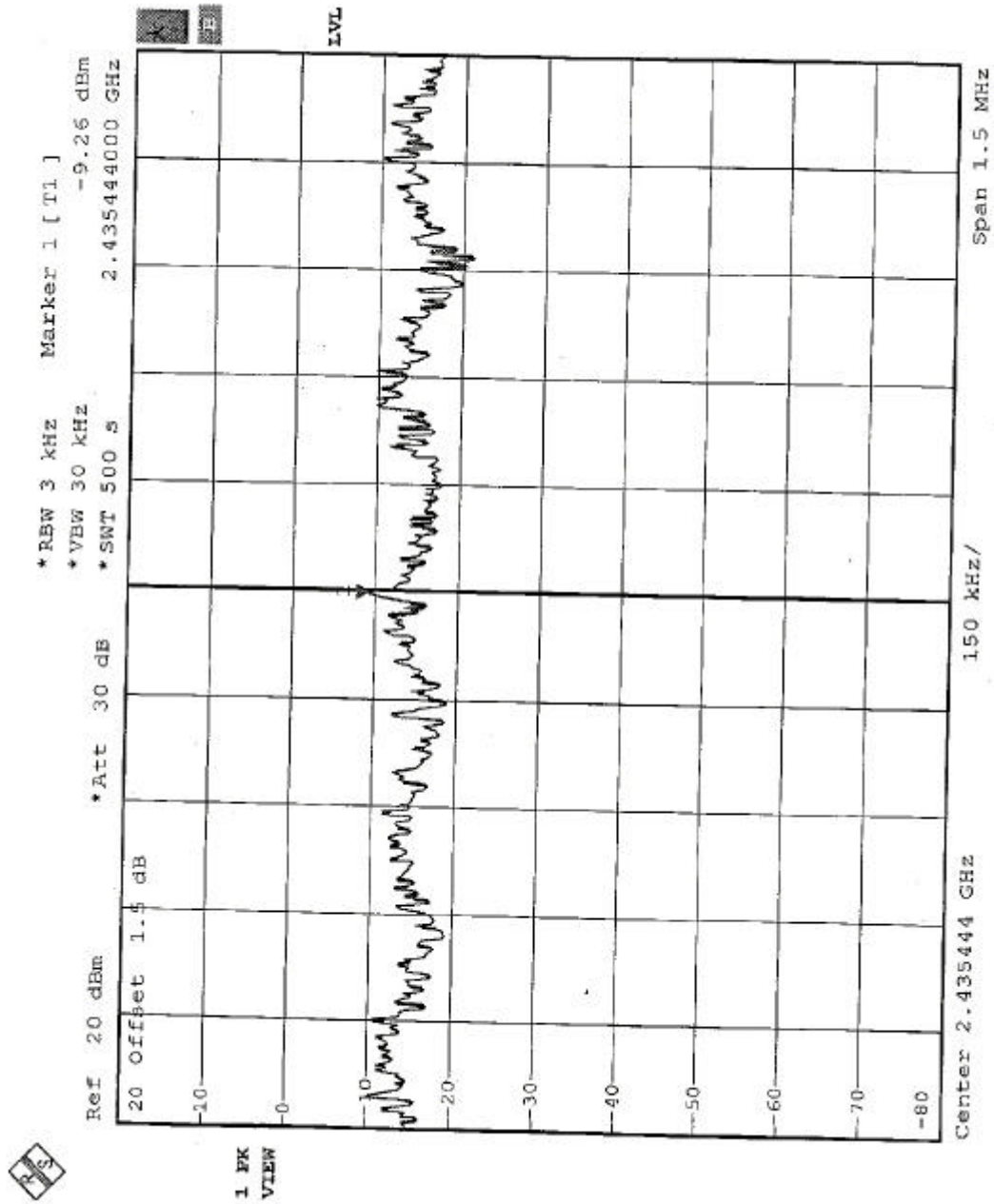


CH1



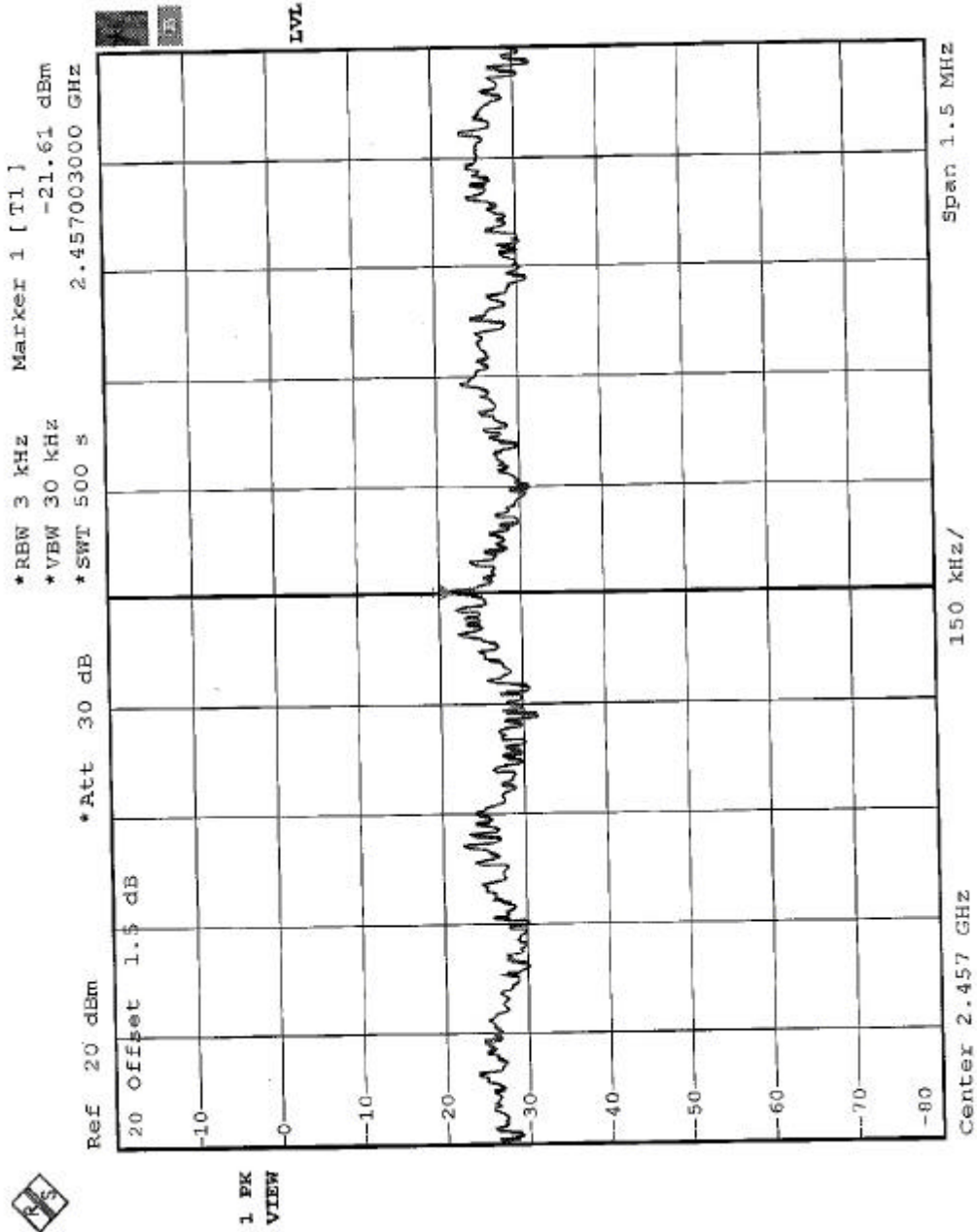


CH6





CH11





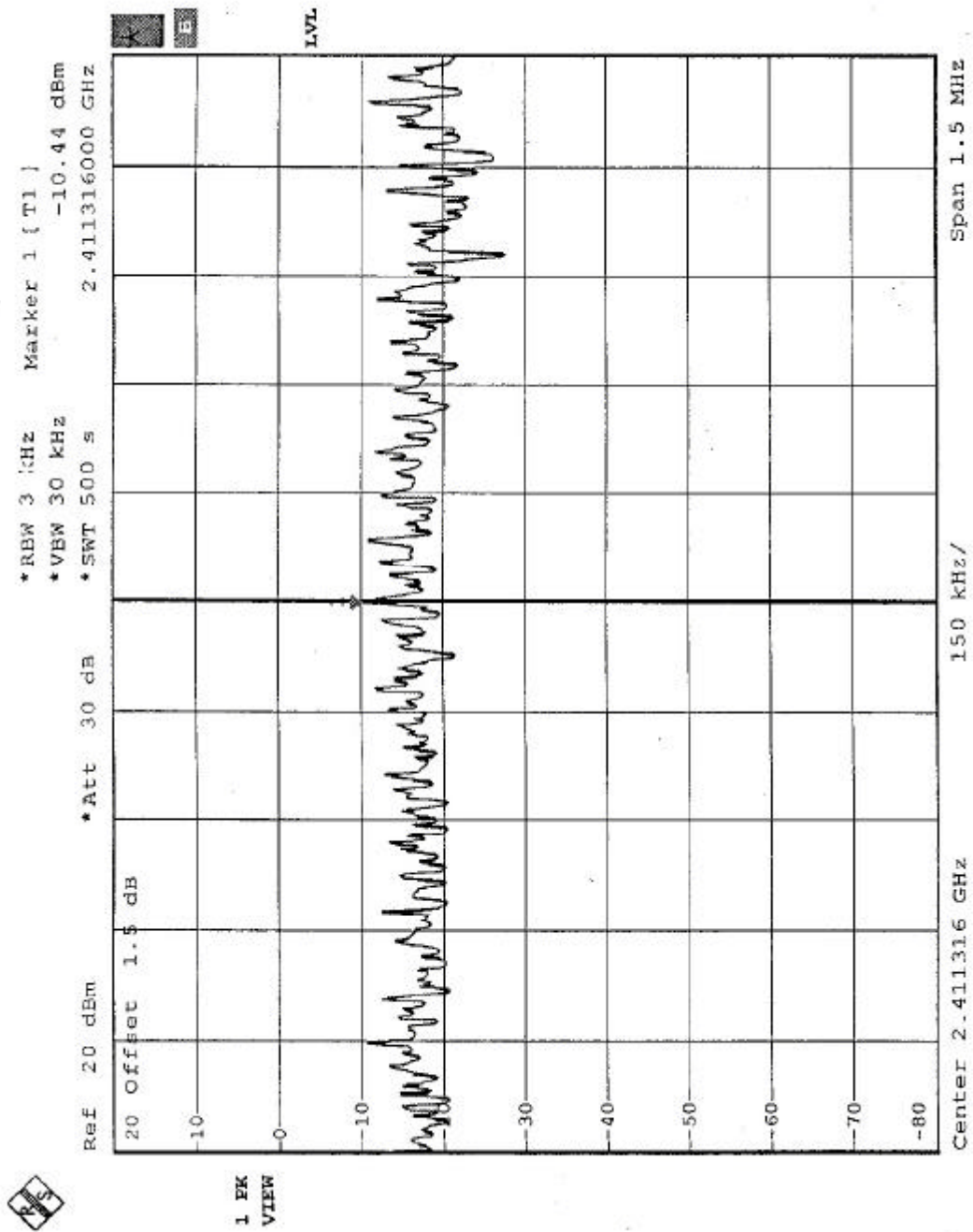
4.5.10 TEST RESULTS(C)-DSSS

| | | | |
|-----------------------------|----------------------|---------------------------------|----------------------------|
| EUT | IEEE 802.11g miniPCI | MODEL | WN4401 |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 20 deg. C, 60 %RH, 979 hPa |
| TEST MODE | Antenna 3 | TESTED BY | Hank Chung |

| CHANNEL NUMBER | CHANNEL FREQUENCY (MHz) | RF POWER LEVEL IN 3 KHz BW (dBm) | MAXIMUM LIMIT (dBm) | PASS/FAIL |
|-----------------------|---------------------------------|---|----------------------------|------------------|
| 1 | 2412 | -10.44 | 8 | PASS |
| 6 | 2437 | -6.04 | 8 | PASS |
| 11 | 2462 | -9.65 | 8 | PASS |

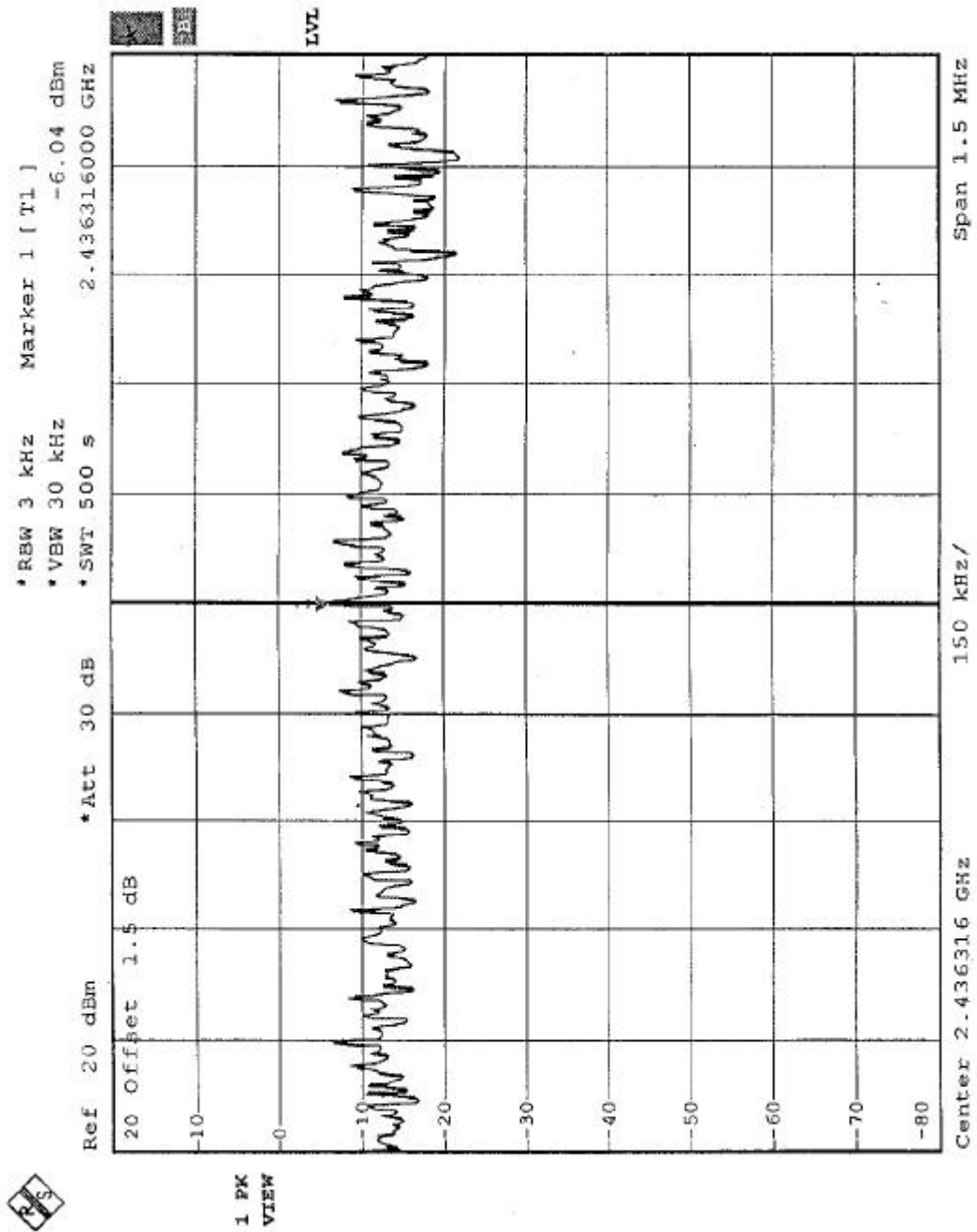


CH1



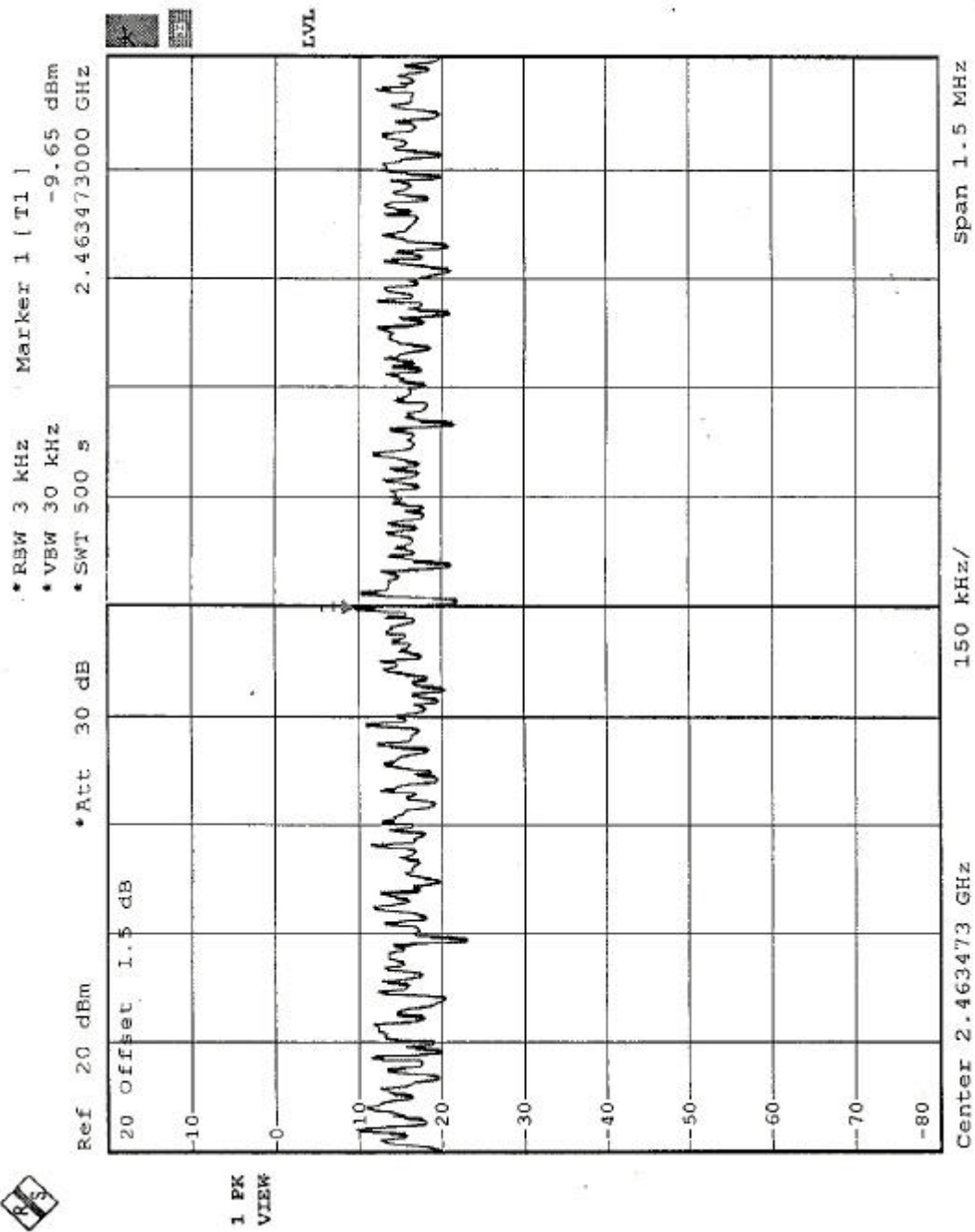


CH6





CH11



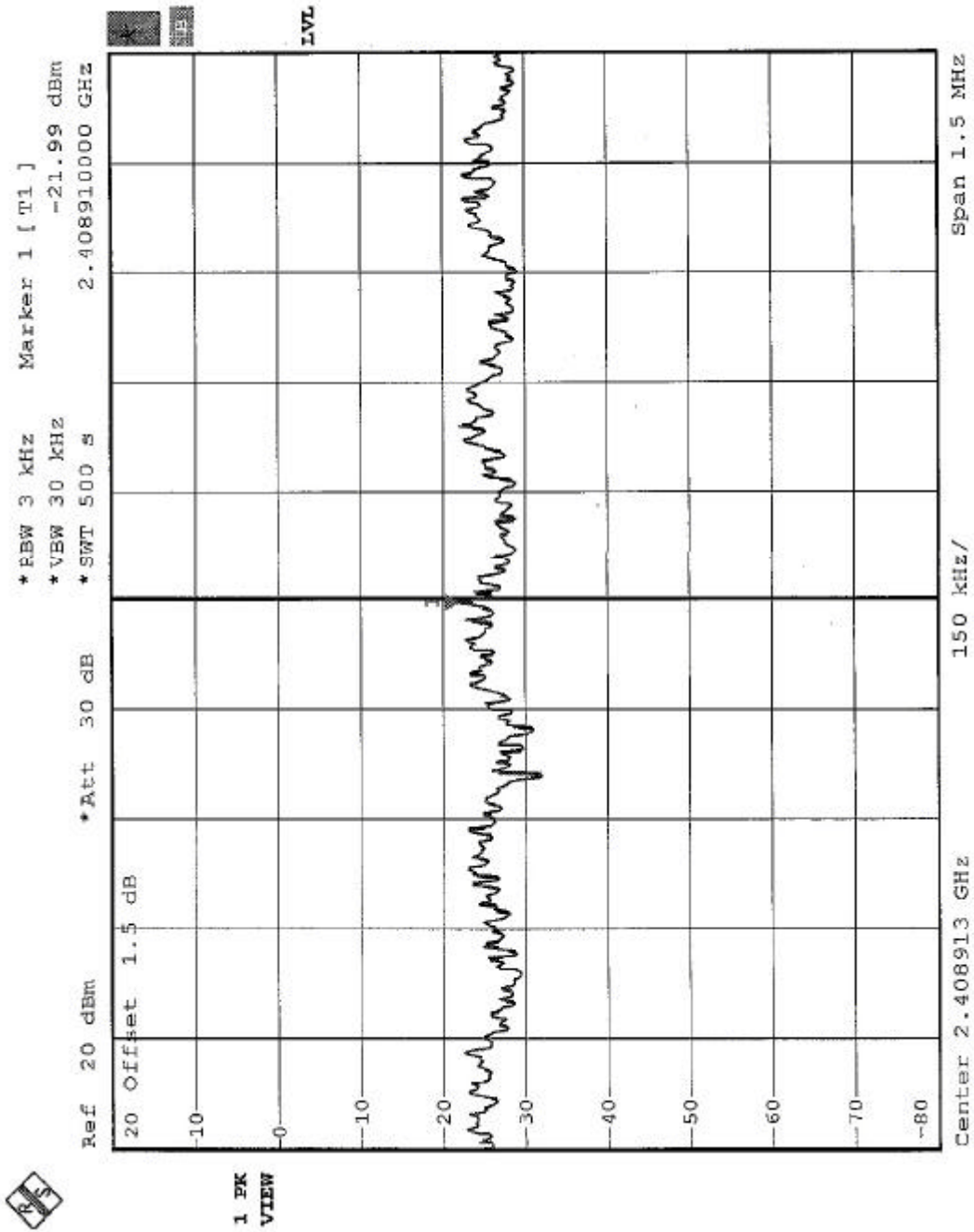
4.5.11 TEST RESULTS(C)-OFDM

| | | | |
|-----------------------------|----------------------|---------------------------------|----------------------------|
| EUT | IEEE 802.11g miniPCI | MODEL | WN4401 |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 20 deg. C, 60 %RH, 979 hPa |
| TEST MODE | Antenna 3 | TESTED BY | Hank Chung |

| CHANNEL NUMBER | CHANNEL FREQUENCY (MHz) | RF POWER LEVEL IN 3 KHz BW (dBm) | MAXIMUM LIMIT (dBm) | PASS/FAIL |
|-----------------------|---------------------------------|---|----------------------------|------------------|
| 1 | 2412 | -21.99 | 8 | PASS |
| 6 | 2437 | -9.22 | 8 | PASS |
| 11 | 2462 | -22.99 | 8 | PASS |

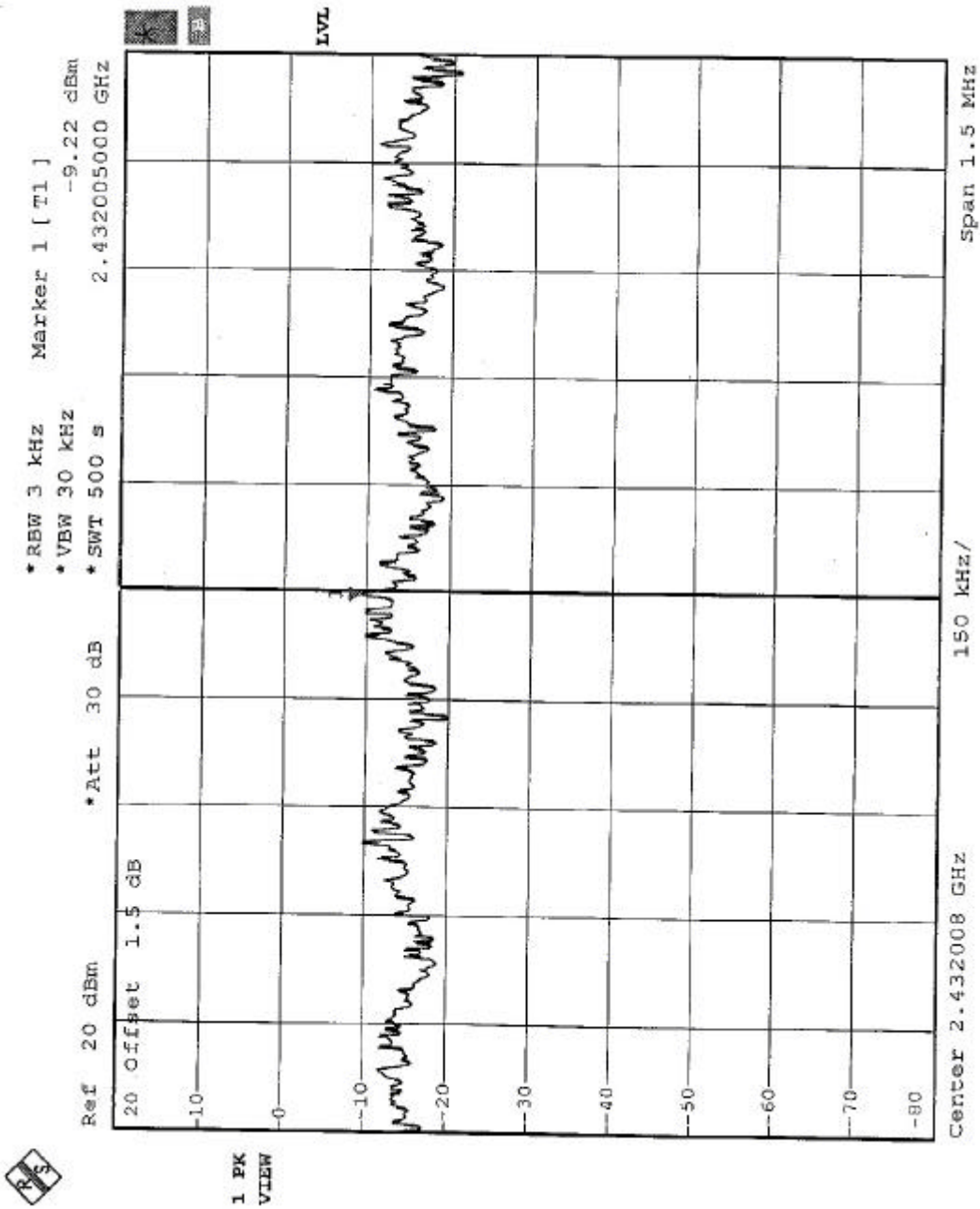


CH1



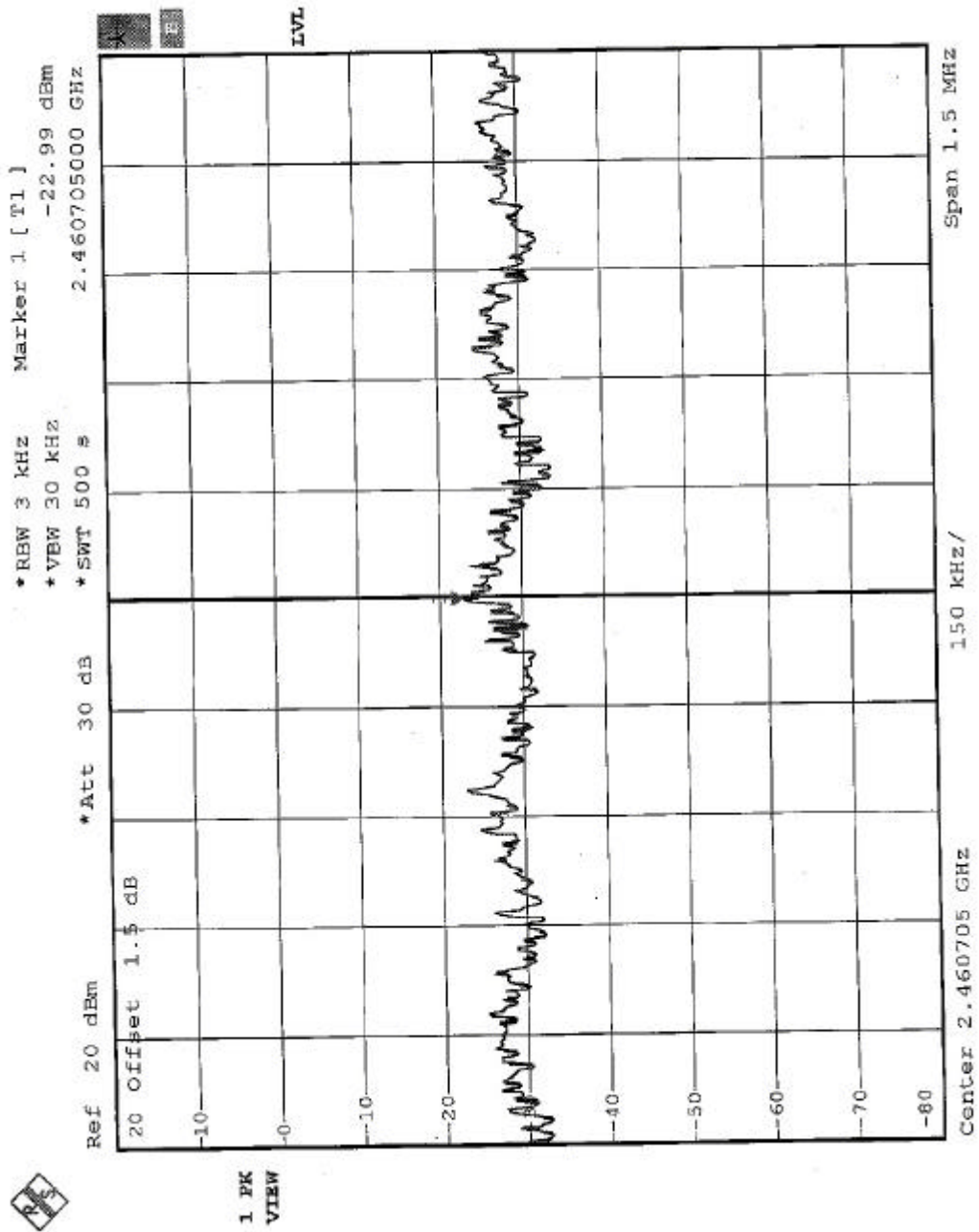


CH6





CH11





4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100KHz Resolution Bandwidth).

4.6.2 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.

4.6.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz with suitable frequency span including 100 kHz bandwidth from band edge. The band edges was measured and recorded.

4.6.4 EUT OPERATING CONDITION

Same as Item 4.3.5



4.6.5 TEST RESULTS (A)-DSSS

◆ TEST MODE: Antenna 1

The spectrum plots are attached on the following 2 pages. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).

NOTE (1): The band edge emission plot on the following first page shows 55.24dB delta between carrier maximum power and local maximum emission in restrict band (2.3756GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 102.00dBuV/m, so the maximum field strength in restrict band is $102.00-55.24=46.76$ dBuV/m which is under 54 dBuV/m limit.

NOTE (2): The band edge emission plot on the following second page shows 55.96dB delta between carrier maximum power and local maximum emission in restrict band (2.499GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 103.0dBuV/m, so the maximum field strength in restrict band is $103.0-55.96=47.04$ dBuV/m which is under 54 dBuV/m limit.

