## 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 | FSEK30 | 100049 | Aug. 12, 2005 |

**NOTE:** 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 100kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (Peak RBW=VBW=100kHz; Average RBW=1MHz, VBW=10Hz) are attached on the following pages.

### 4.6.4 DEVIATION FROM TEST STANDARD

No deviation.

### 4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6.

## 4.6.6 TEST RESULTS

The spectrum plots are attached on the following 18 images. D2 line indicates the highest level, and D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(d).

**DSSS technique**

The band edge emission plot of DSSS technique on following 1st image shows 55.38dB between carrier maximum power and local maximum emission in restrict band (2.3601GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 115.80dBuV/m (Peak), so the maximum field strength in restrict band is 115.80-55.38=60.42dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of DSSS technique on following 2nd image shows 57.24dB between carrier maximum power and local maximum emission in restrict band (2.3870GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 107.49dBuV/m (Average), so the maximum field strength in restrict band is 107.49-57.24=50.25dBuV/m which is under 54dBuV/m limit.

The band edge emission plot of DSSS technique on following 4st image shows 50.92dB between carrier maximum power and local maximum emission in restrict band (2.4855GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 117.14dBuV/m (Peak), so the maximum field strength in restrict band is 117.14-50.92=66.22dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of DSSS technique on following 5nd image shows 56.70dB between carrier maximum power and local maximum emission in restrict band (2.4873GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 108.14dBuV/m (Average), so the maximum field strength in restrict band is 108.14-56.70=51.44dBuV/m which is under 54dBuV/m limit.

**OFDM technique (Normal mode)**

The band edge emission plot of OFDM technique with Normal mode on following 7th image shows 48.97dB delta between carrier maximum power and local maximum emission in restrict band (2.3898GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 111.24dBuV/m (Peak), so the maximum field strength in restrict band is 111.24-48.97=62.27dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of OFDM technique with Normal mode on following 8th image shows 48.87dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 101.30dBuV/m (Average), so the maximum field strength in restrict band is 101.30-48.87=52.43dBuV/m which is under 54dBuV/m limit.

The band edge emission plot of OFDM technique with Normal mode on following 10th image shows 50.73dB delta between carrier maximum power and local maximum emission in restrict band (2.4837GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 114.28dBuV/m (Peak), so the maximum field strength in restrict band is 114.28-50.73=63.55dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of OFDM technique with Normal mode on following 11th image shows 51.28dB delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 103.59dBuV/m (Average), so the maximum field strength in restrict band is 103.59-51.28=52.31dBuV/m which is under 54dBuV/m limit.

**OFDM technique (Turbo mode)**

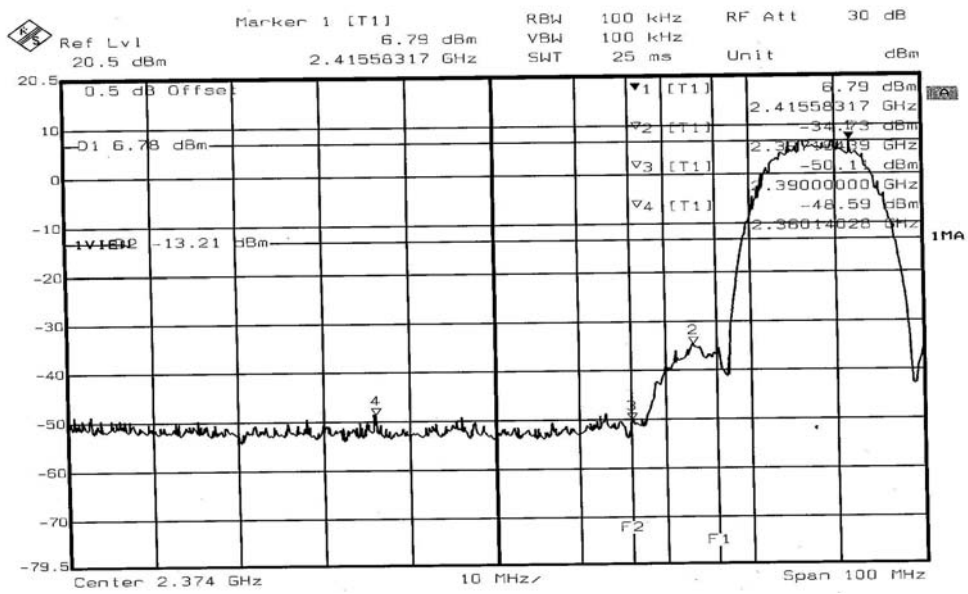
The band edge emission plot of OFDM technique with Turbo mode on following 13th image shows 48.94dB delta between carrier maximum power and local maximum emission in restrict band (2.3599GHz). The emission of carrier strength list in the test result of channel 6 at the item 4.2.7 is 110.14dBuV/m (Peak), so the maximum field strength in restrict band is 110.14-48.94=61.20dBuV/m which is under 74dBuV/m limit.

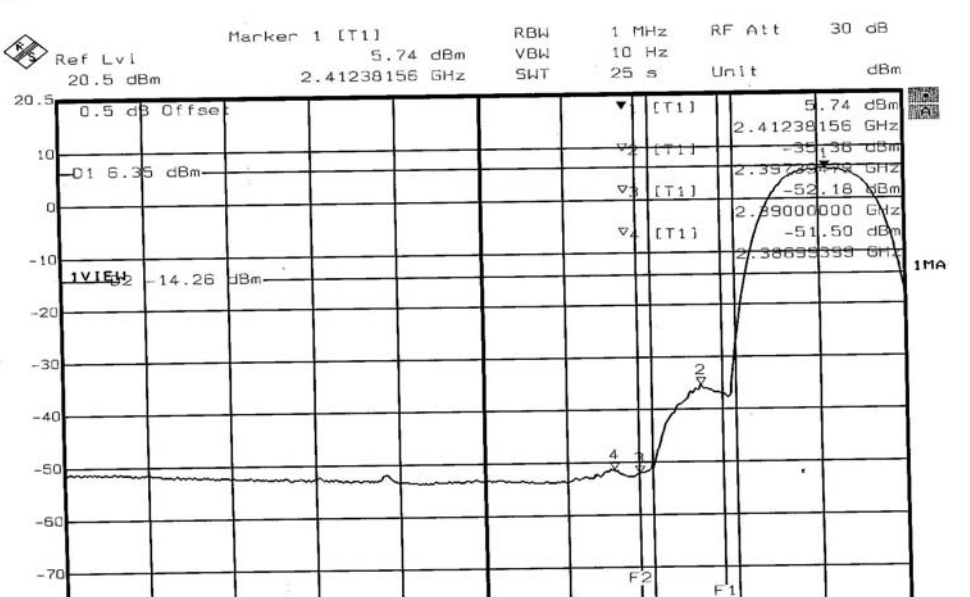
The band edge emission plot of OFDM technique with Turbo mode on following 14th image shows 47.41dB delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 6 at the item 4.2.7 is 99.20dBuV/m (Average), so the maximum field strength in restrict band is 99.20-47.41=51.79dBuV/m which is under 54dBuV/m limit.

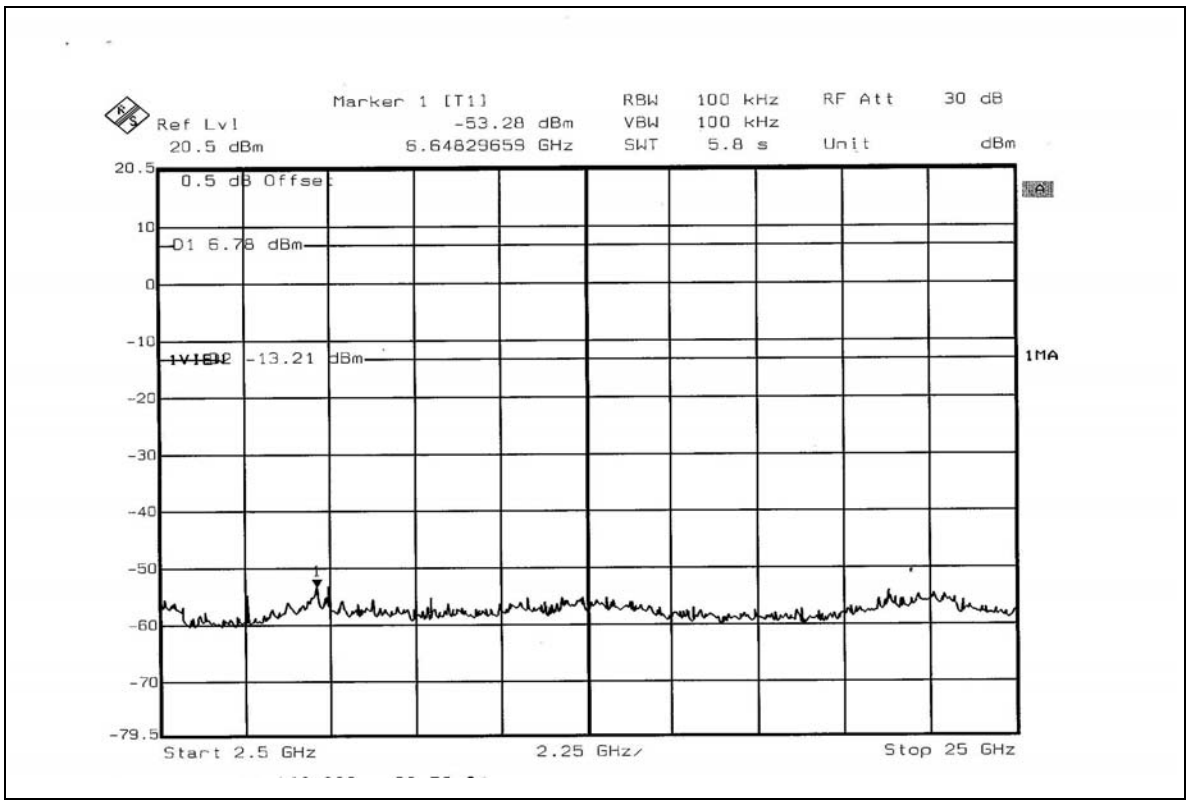
The band edge emission plot of OFDM technique with Turbo mode on following 16th image shows 55.35dB delta between carrier maximum power and local maximum emission in restrict band (2.4847GHz). The emission of carrier strength list in the test result of channel 6 at the item 4.2.7 is 110.14dBuV/m (Peak), so the maximum field strength in restrict band is 110.14-55.35=54.79dBuV/m which is under 74dBuV/m limit.

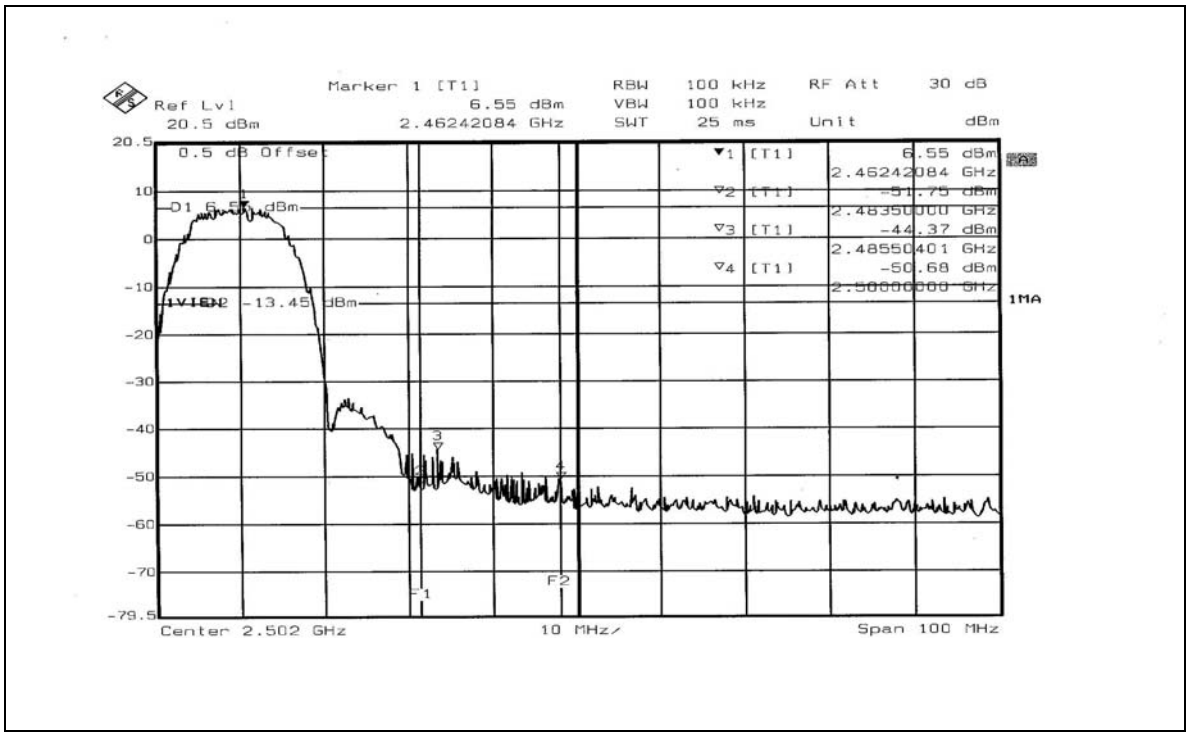
The band edge emission plot of OFDM technique with Turbo mode on following 17th image shows 54.04dB delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 6 at the item 4.2.7 is 99.20dBuV/m (Average), so the maximum field strength in restrict band is 99.20-54.04=45.16dBuV/m which is under 54dBuV/m limit.

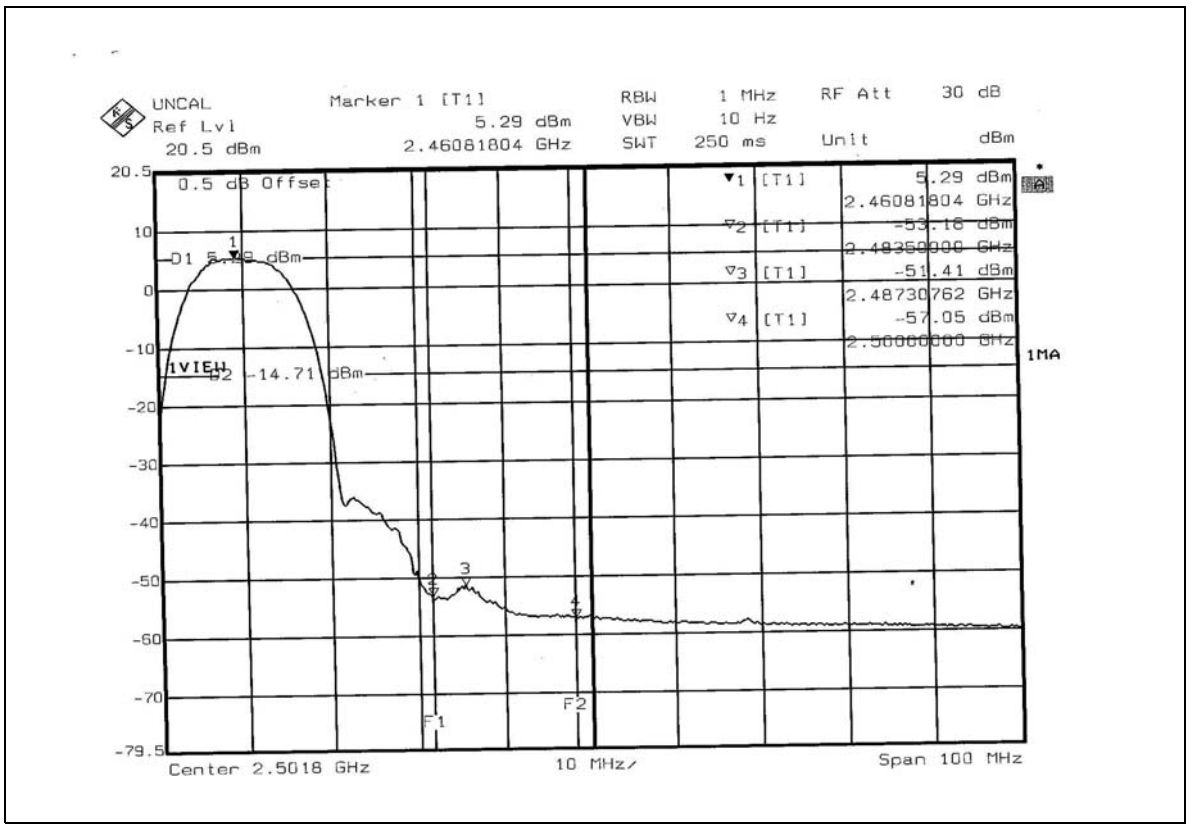
DSSS technique

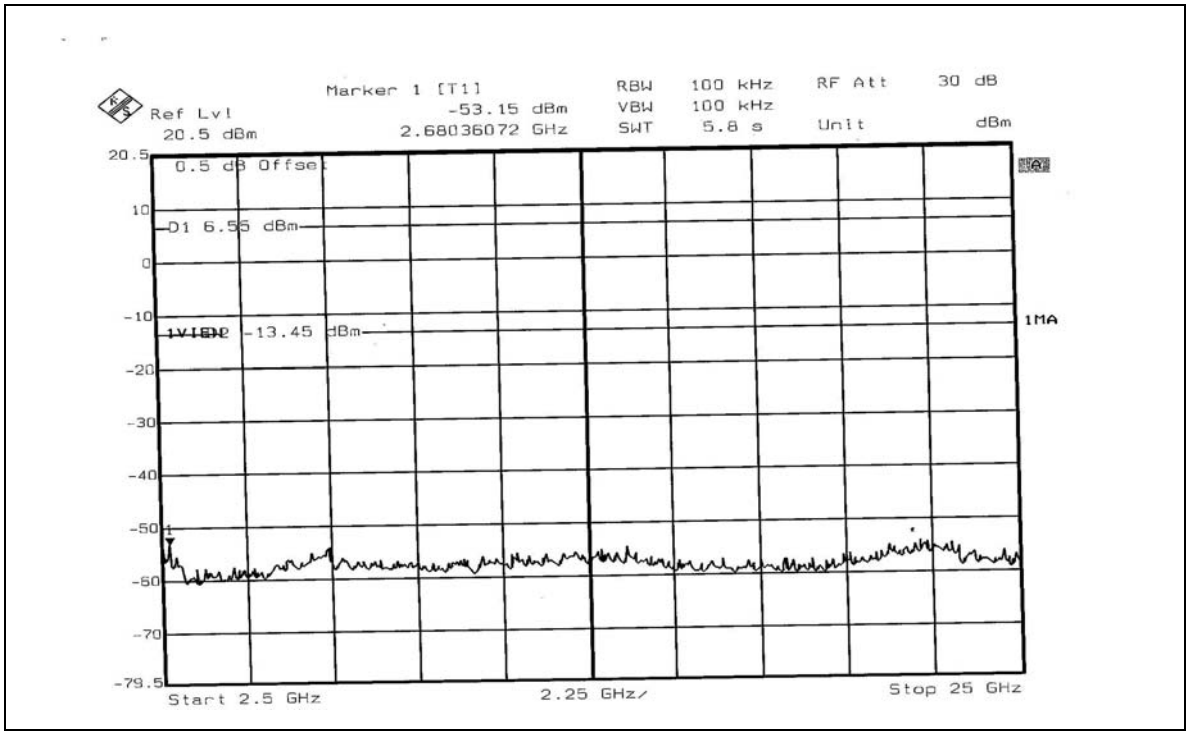


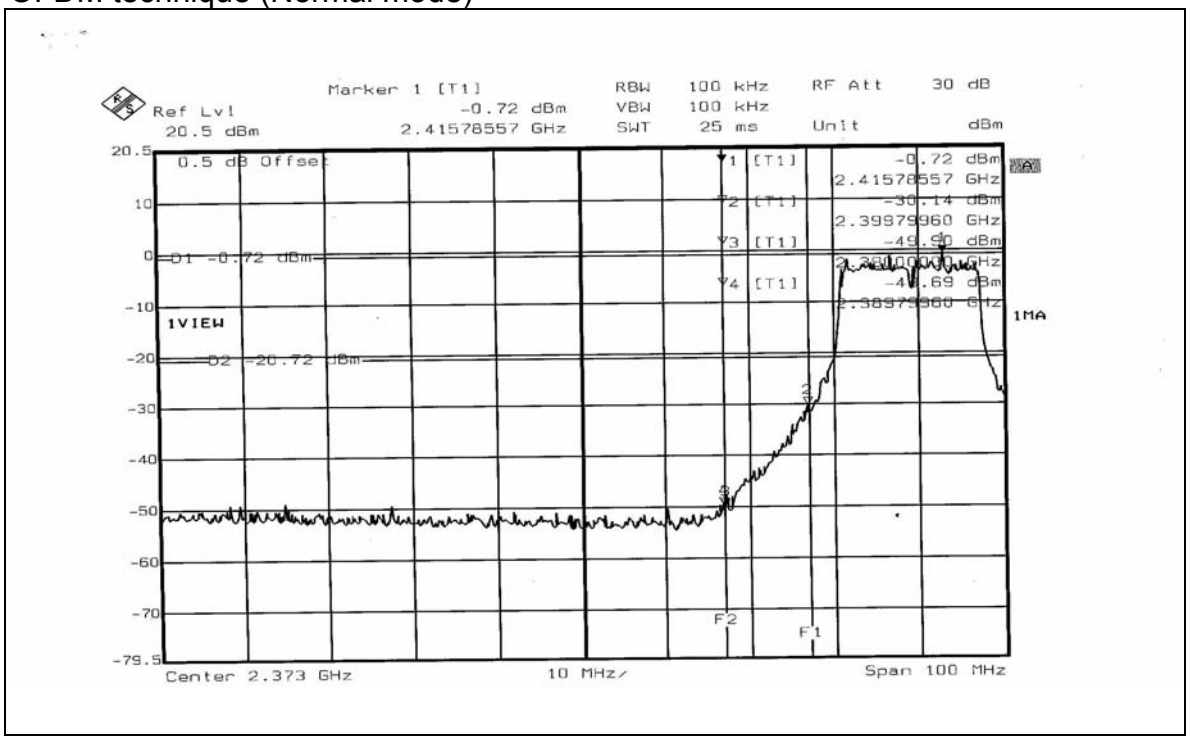

Marker 1 [T1]
Ref Lvl
20.5 dBm
-53.28 dBm
5.64829659 GHz
RBW 100 kHz
VBW 100 kHz
SWT 5.8 s
RF Att 30 dB
Unit dBm
0.5 dB Offset
D1 6.78 dBm
-13.21 dBm
1MA
Start 2.5 GHz
2.25 GHz/
Stop 25 GHz

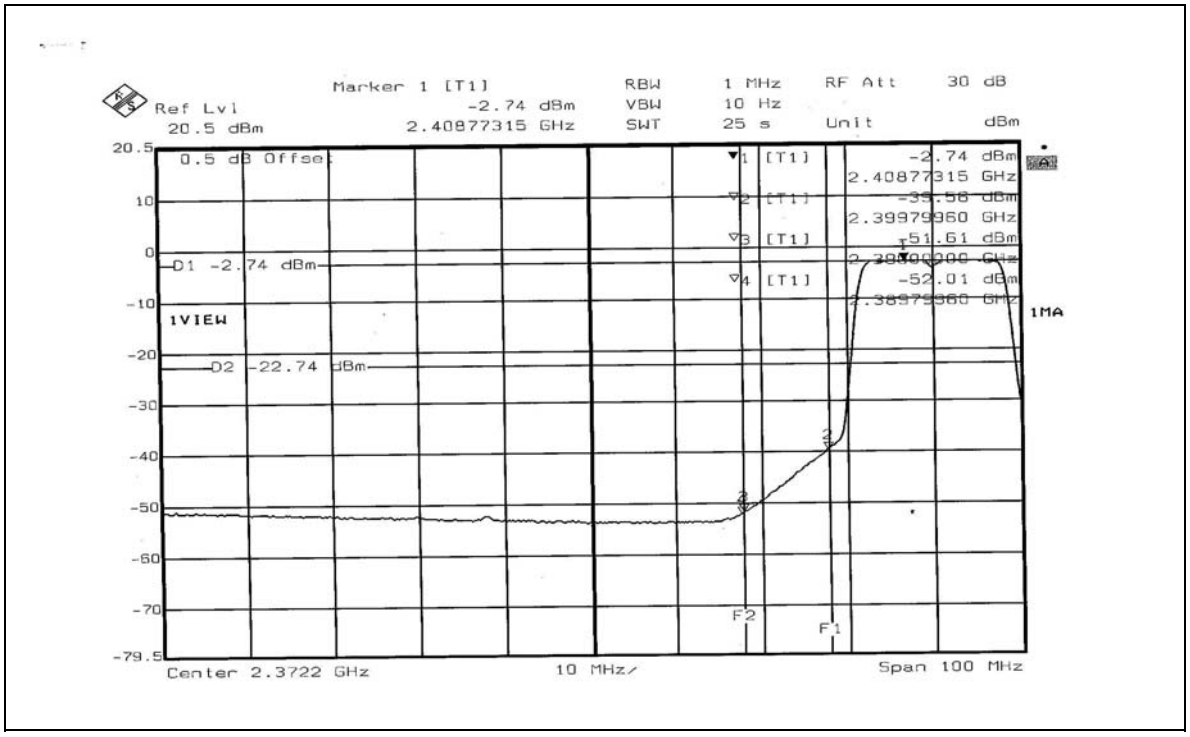

Marker 1 [T1]
Ref Lvl
20.5 dBm
6.55 dBm
2.46242084 GHz
RBW 100 kHz
VBW 100 kHz
SWT 25 ms
RF Att 30 dB
Unit dBm
0.5 dB Offset
D1 6.55 dBm
-13.45 dBm
1MA
Center 2.502 GHz
10 MHz/
Span 100 MHz

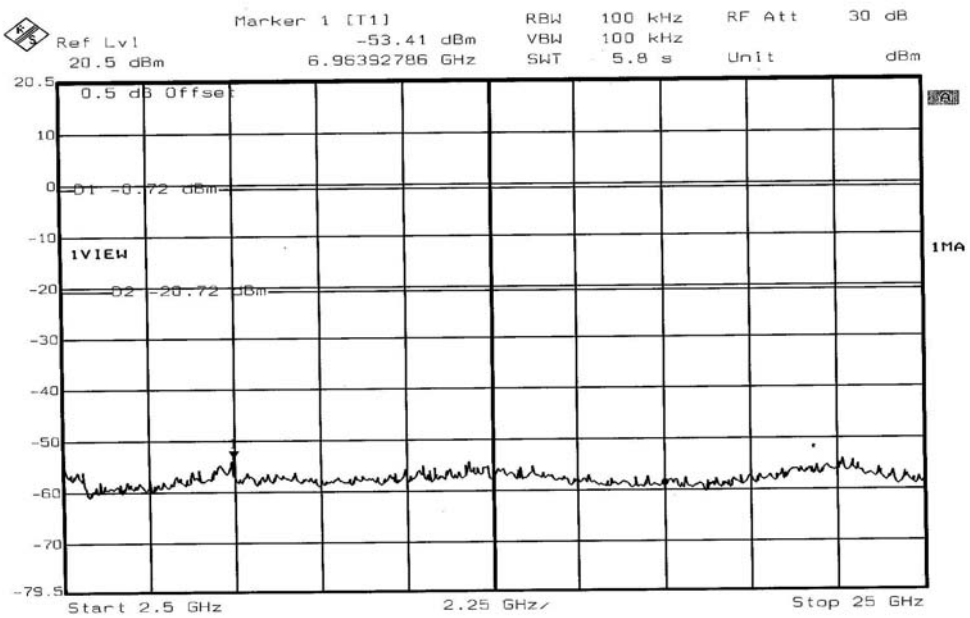

UNCAL
Ref Lvl
20.5 dBm
Marker 1 [T1]
5.29 dBm
2.46081804 GHz
RBW 1 MHz
VBW 10 Hz
SWT 250 ms
RF Att 30 dB
Unit dBm
0.5 dB Offset
D1 5.29 dBm
D2 -14.71 dBm
▼1 [T1] 5.29 dBm 2.46081804 GHz
▽2 [T1] -53.18 dBm 2.48350000 GHz
▽3 [T1] -51.41 dBm 2.48730762 GHz
▽4 [T1] -57.05 dBm 2.50000000 GHz
1MA
20.5
10
0
-10
-20
-30
-40
-50
-60
-70
-79.5
F1
F2
Center 2.5018 GHz
10 MHz/
Span 100 MHz

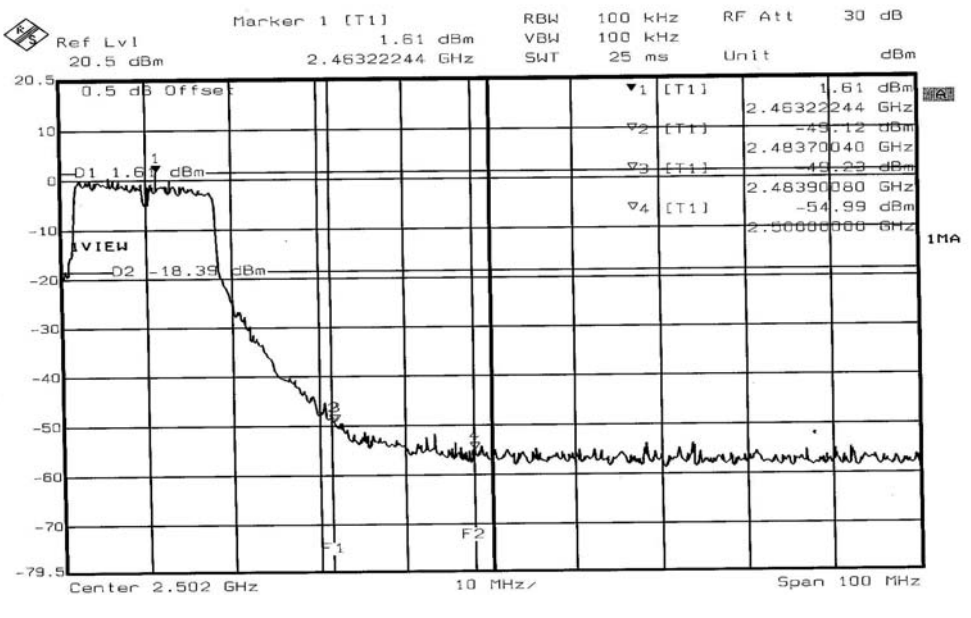

Ref Lvl
20.5 dBm
Marker 1 [T1]
-53.15 dBm
2.68036072 GHz
RBW 100 kHz
VBW 100 kHz
SWT 5.8 s
RF Att 30 dB
Unit dBm
0.5 dB Offset
D1 6.55 dBm
D2 -13.45 dBm
1MA
20.5
10
0
-10
-20
-30
-40
-50
-60
-70
-79.5
Start 2.5 GHz
2.25 GHz/
Stop 25 GHz

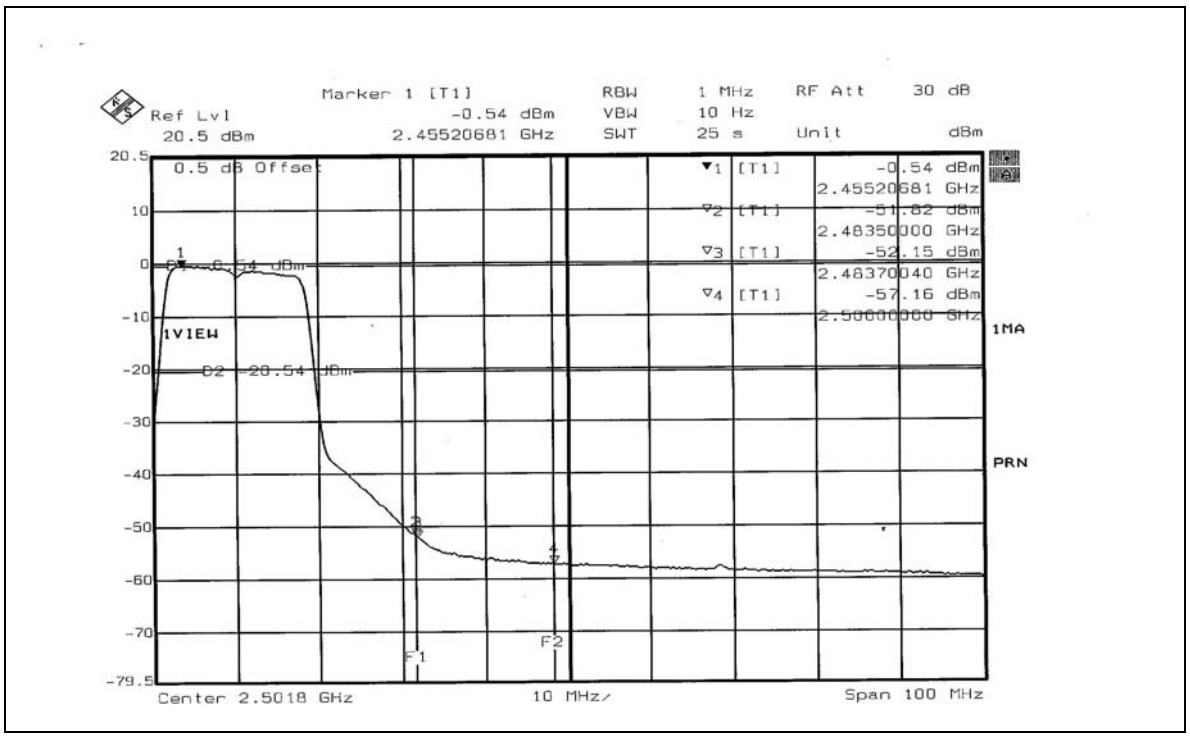
OFDM technique (Normal mode)

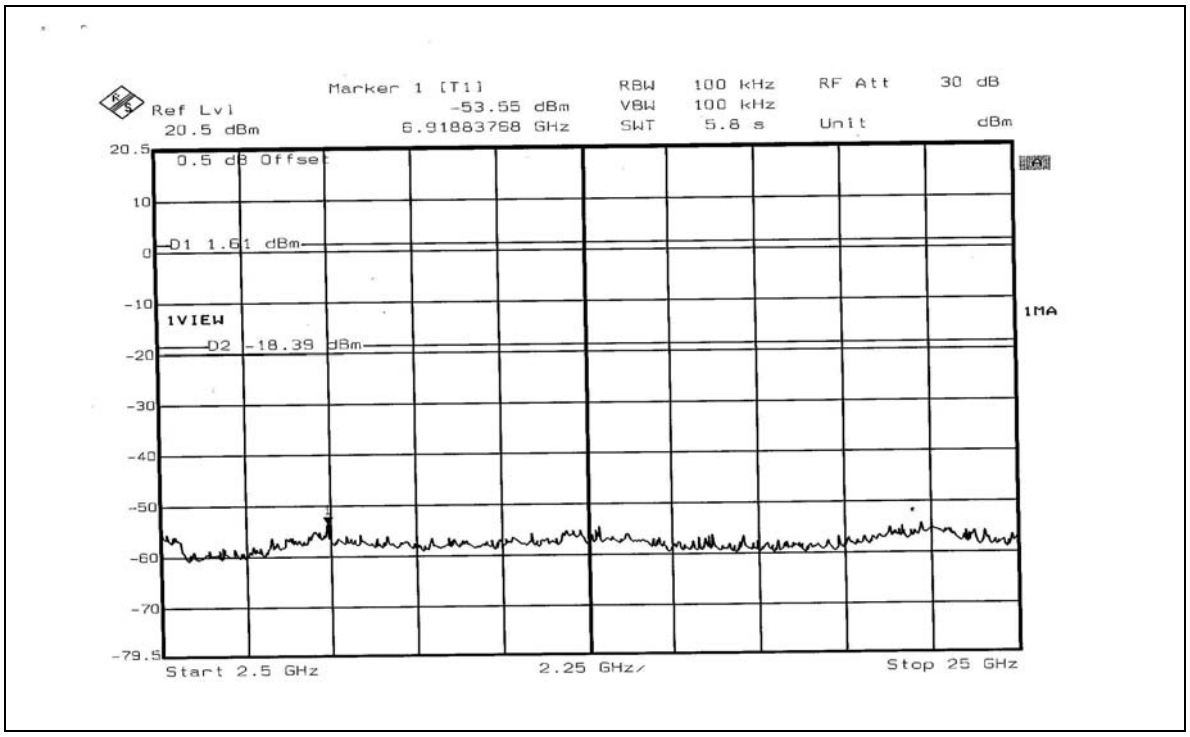


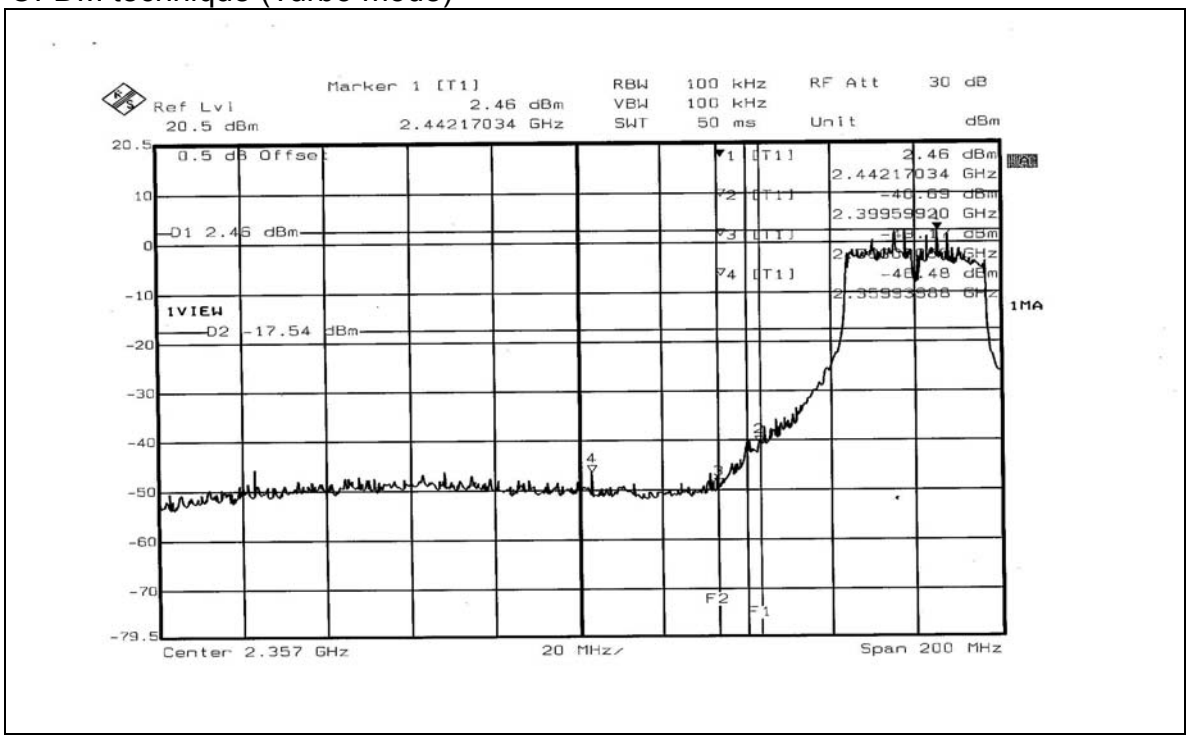

Marker 1 [T1]
-53.41 dBm
6.96392786 GHz
RBW 100 kHz
VBW 100 kHz
SWT 5.8 s
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
D1 -8.72 dBm
1VIEW
D2 -28.72 dBm
1MA
Start 2.5 GHz
2.25 GHz/
Stop 25 GHz

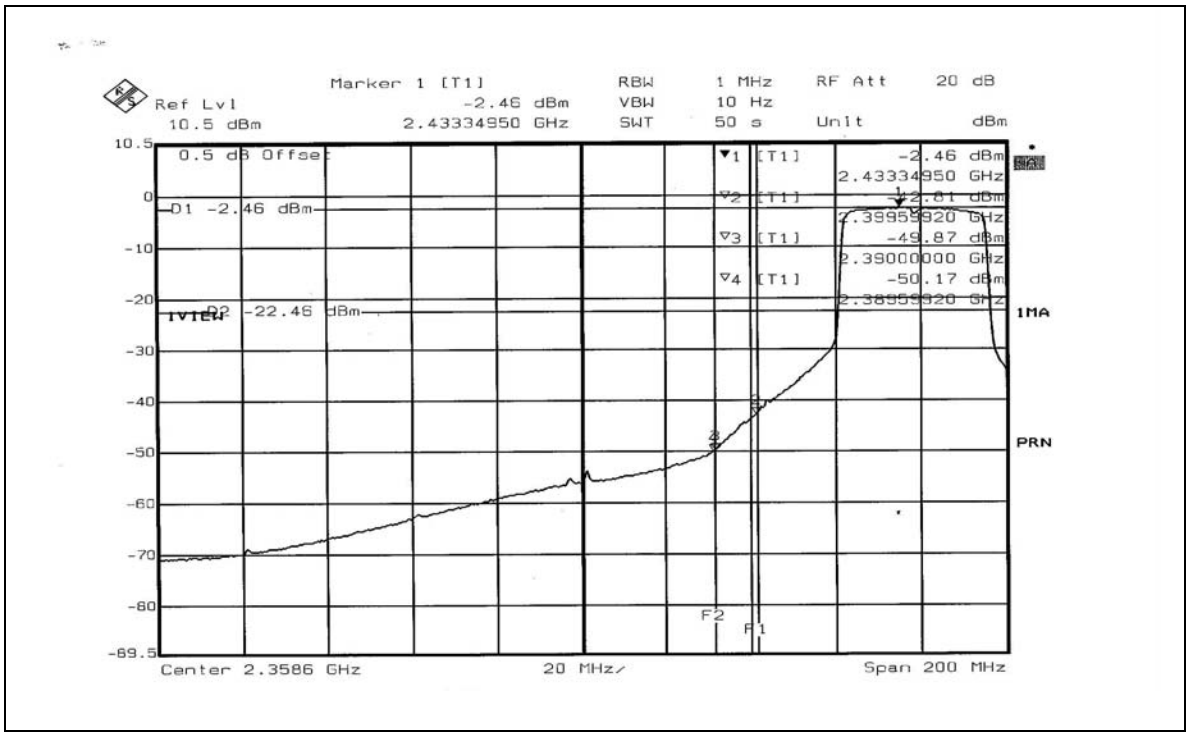

Marker 1 [T1]
1.61 dBm
2.46322244 GHz
RBW 100 kHz
VBW 100 kHz
SWT 25 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
D1 1.61 dBm
1VIEW
D2 -18.39 dBm
1MA
T1 1.61 dBm 2.46322244 GHz
T2 -45.12 dBm 2.48370040 GHz
T3 -49.23 dBm 2.48390080 GHz
T4 -54.99 dBm 2.50000000 GHz
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz

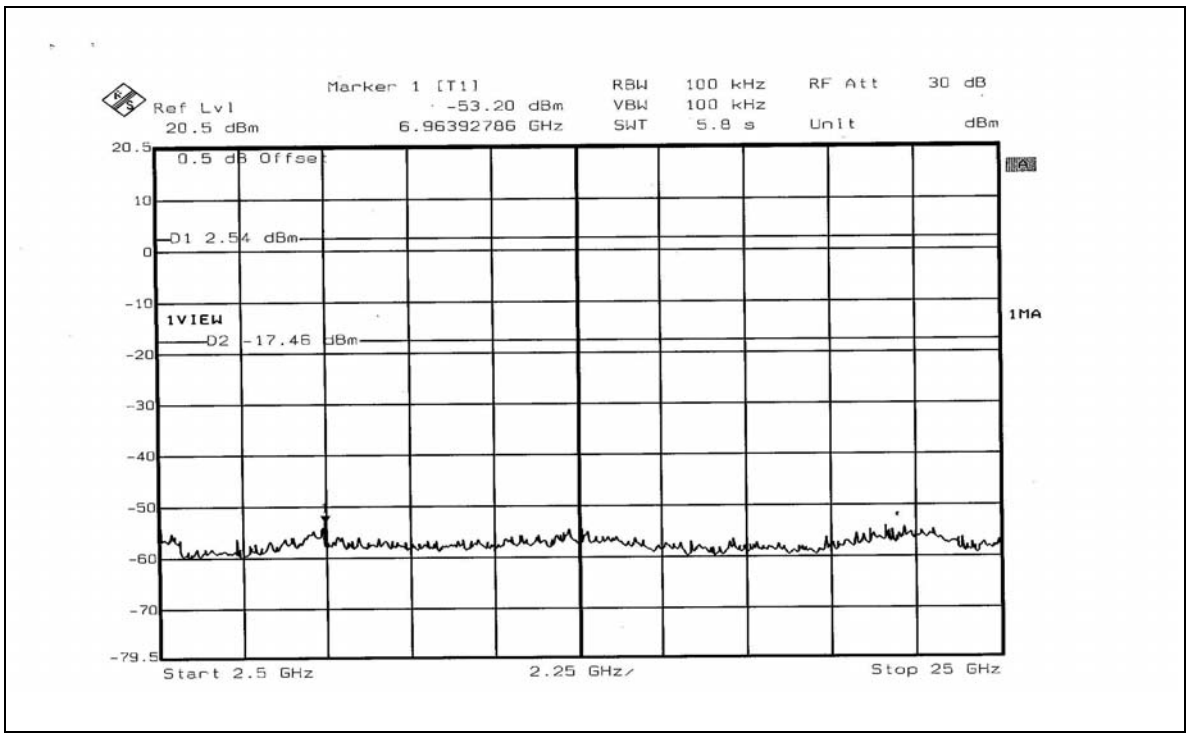

Marker 1 [T1]
-0.54 dBm
2.45520681 GHz
RBW 1 MHz
VBW 10 Hz
SWT 25 s
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
▼1 [T1] -0.54 dBm
2.45520681 GHz
▽2 [T1] -51.82 dBm
2.48350000 GHz
▽3 [T1] -52.15 dBm
2.48370040 GHz
▽4 [T1] -57.16 dBm
2.50000000 GHz
1VIEW
D2 -20.54 dBm
1MA
PRN
F1
F2
Center 2.5018 GHz
10 MHz/
Span 100 MHz

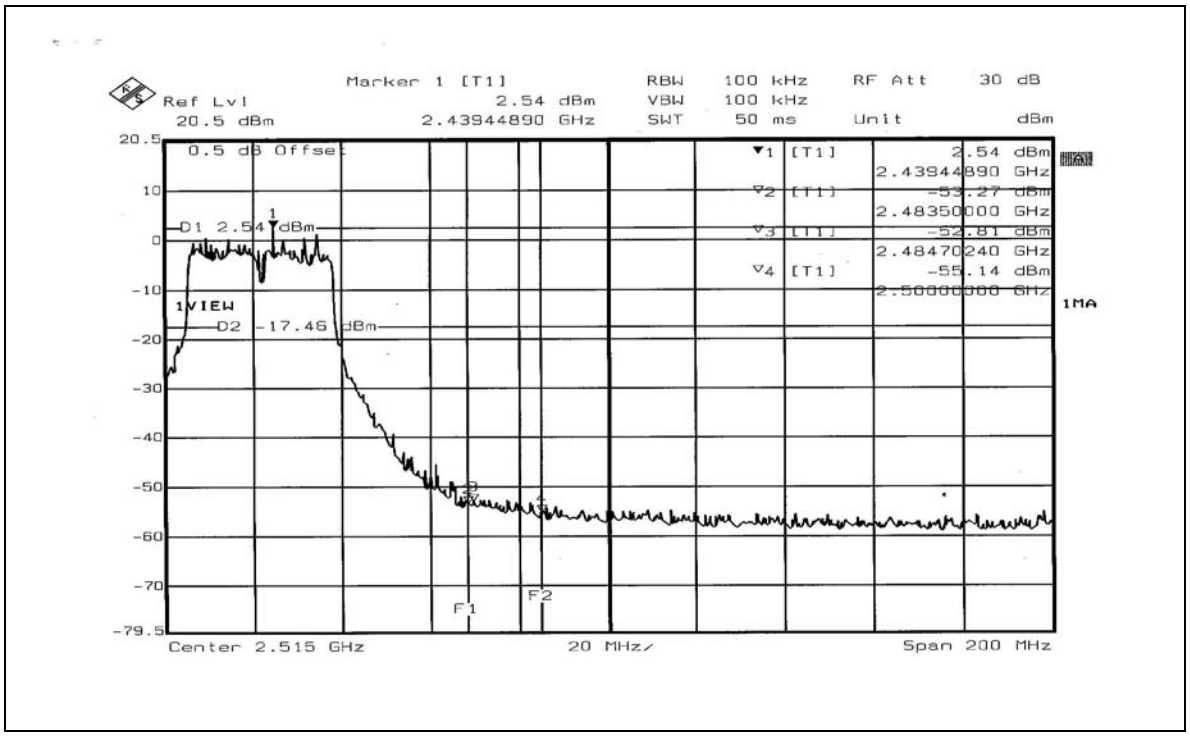

Marker 1 [T1]
-53.55 dBm
6.91883768 GHz
RBW 100 kHz
VBW 100 kHz
SWT 5.8 s
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
D1 1.61 dBm
1VIEW
D2 -18.39 dBm
1MA
Start 2.5 GHz
2.25 GHz/
Stop 25 GHz

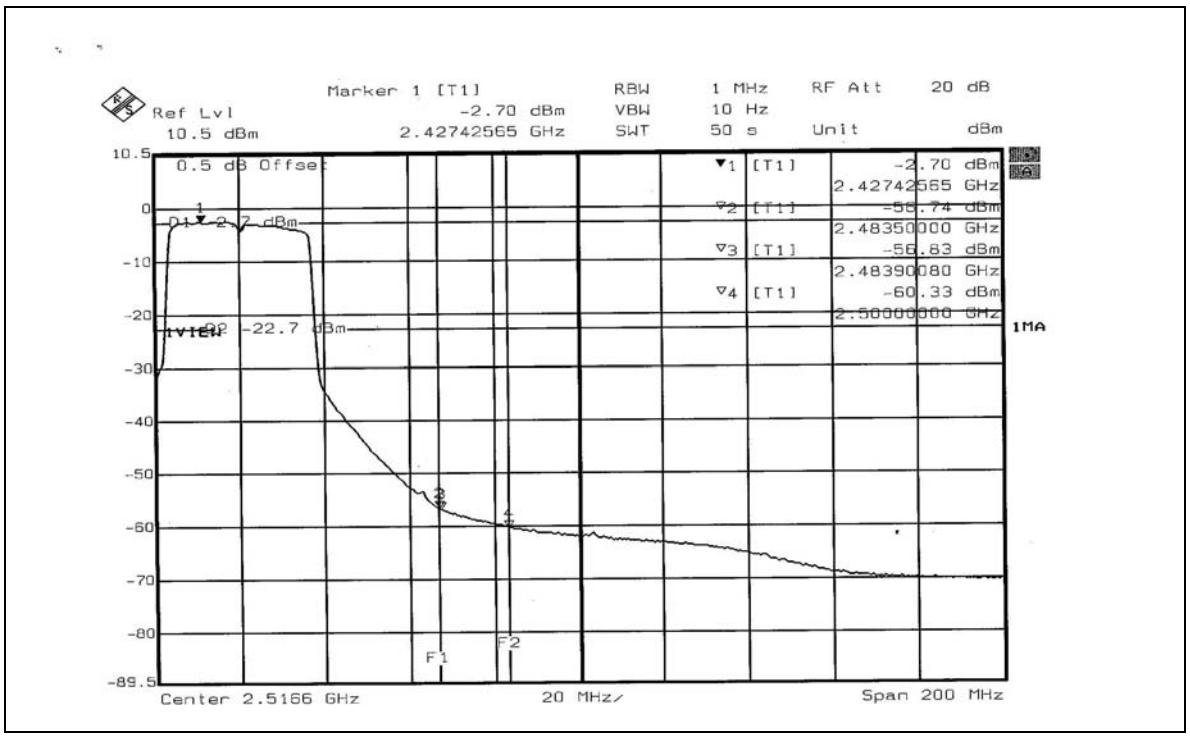
OFDM technique (Turbo mode)

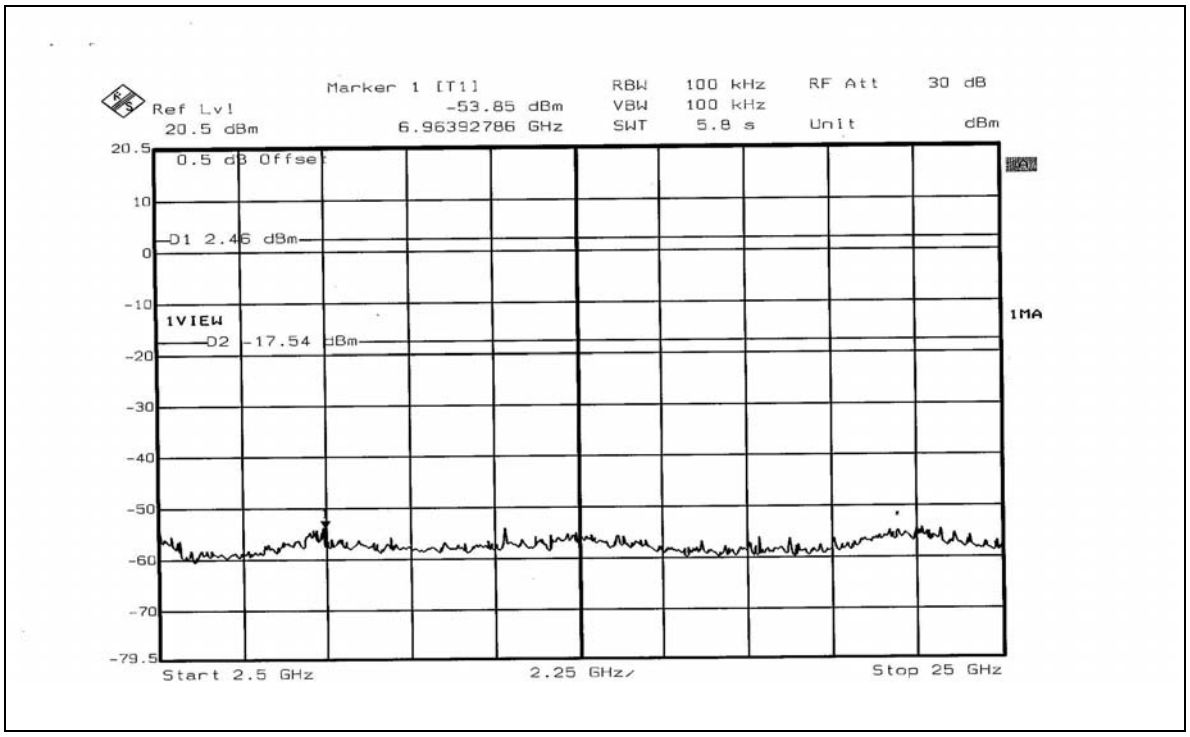



Marker 1 [T1]
-53.20 dBm
6.96392786 GHz
RBW 100 kHz
VBW 100 kHz
SWT 5.8 s
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
D1 2.54 dBm
1VIEW
D2 -17.46 dBm
1MA
Start 2.5 GHz
2.25 GHz/
Stop 25 GHz


Marker 1 [T1]
2.54 dBm
2.43944890 GHz
RBW 100 kHz
VBW 100 kHz
SWT 50 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
D1 2.54 dBm
1VIEW
D2 -17.46 dBm
1MA
F1
F2
Center 2.515 GHz
20 MHz/
Span 200 MHz


Marker 1 [T1]
Ref Lvl
10.5 dBm
-2.70 dBm
2.42742565 GHz
RBW 1 MHz
VBW 10 Hz
SWT 50 s
RF Att 20 dB
Unit dBm
0.5 dB Offset
D1 -2.7 dBm
1VIEW D2 -22.7 dBm
▼1 [T1] -2.70 dBm 2.42742565 GHz
▽2 [T1] -56.74 dBm 2.48350000 GHz
▽3 [T1] -56.83 dBm 2.48390080 GHz
▽4 [T1] -60.33 dBm 2.50000000 GHz
1MA
F1
F2
Center 2.5166 GHz
20 MHz/
Span 200 MHz


Marker 1 [T1]
Ref Lvl
20.5 dBm
-53.85 dBm
6.96392786 GHz
RBW 100 kHz
VBW 100 kHz
SWT 5.8 s
RF Att 30 dB
Unit dBm
0.5 dB Offset
D1 2.46 dBm
1VIEW D2 -17.54 dBm
1MA
Start 2.5 GHz
2.25 GHz/
Stop 25 GHz

## 4.7 ANTENNA REQUIREMENT

### 4.7.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### 4.7.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used in this product is dipole antenna with UFL connector. The maximum Gain of the antenna is 2dBi.

# 5. TEST TYPES AND RESULTS (FOR PART 802.11a)

## FOR FREQUENCY 5.15~5.35GHZ

## 5.1 CONDUCTED EMISSION MEASUREMENT

### 5.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

| FREQUENCY OF EMISSION (MHz) | CONDUCTED LIMIT (dBμV) | |
|---|---|---|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56 | 56 to 46 |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

**NOTE**:
1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

### 5.1.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED UNTIL |
|---|---|---|---|
| Test Receiver<br>ROHDE & SCHWARZ | ESCS30 | 100288 | Nov. 06, 2005 |
| RF signal cable<br>Woken | 5D-FB | Cable-HyC02-01 | Mar. 07, 2005 |
| LISN<br>ROHDE & SCHWARZ | ESH2-Z5 | 100100 | Mar. 10, 2005 |
| LISN<br>ROHDE & SCHWARZ | ESH3-Z5 | 100311 | Mar. 04, 2005 |
| Software<br>ADT | ADT_Cond_V3 | NA | NA |

**NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Shielded Room 2.

3. The VCCI Site Registration No. is C-2047.

### 5.1.3 TEST PROCEDURES

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.

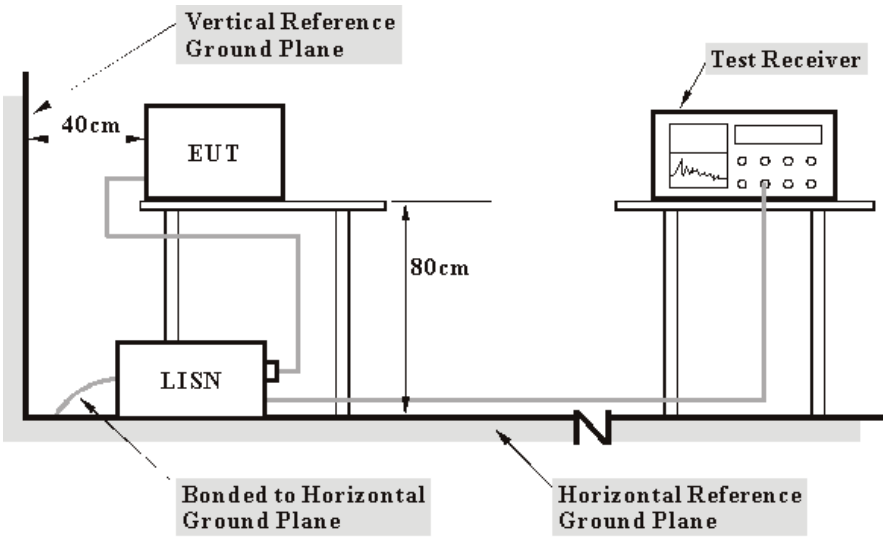
b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

c. The frequency range from 150kHz to 30MHz was searched. Emission levels under ( Limit - 20dB) was not recorded.

### 5.1.4 DEVIATION FROM TEST STANDARD

No deviation

### 5.1.5 TEST SETUP




Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

### 5.1.6 EUT OPERATING CONDITIONS

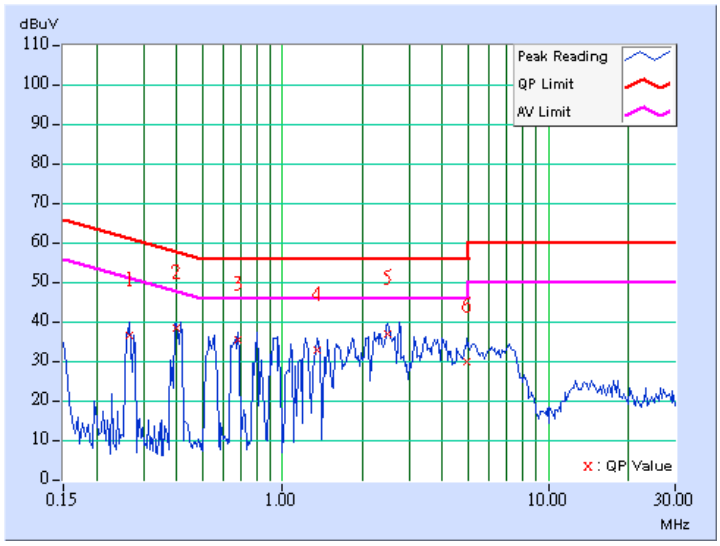
Same as 4.1.6.

## 5.1.7 TEST RESULTS

| EUT | Dual-Band Wireless A+G Router | MODEL | F6D3230-4 |
|---|---|---|---|
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | 6dB BANDWIDTH | 9 kHz |
| ENVIRONMENTAL CONDITIONS | 24 deg. C, 64% RH, 991 hPa | PHASE | Line (L) |
| TESTED BY | Leo Hung | | |

| No | Freq. | Corr. Factor | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.267 | 0.10 | 36.39 | - | 36.49 | - | 61.20 | 51.20 | -24.71 | - |
| 2 | 0.400 | 0.11 | 38.11 | - | 38.22 | - | 57.85 | 47.85 | -19.63 | - |
| 3 | 0.681 | 0.18 | 35.02 | - | 35.20 | - | 56.00 | 46.00 | -20.80 | - |
| 4 | 1.352 | 0.25 | 32.78 | - | 33.03 | - | 56.00 | 46.00 | -22.97 | - |
| 5 | 2.488 | 0.27 | 36.72 | - | 36.99 | - | 56.00 | 46.00 | -19.01 | - |
| 6 | 4.953 | 0.35 | 29.49 | - | 29.84 | - | 56.00 | 46.00 | -26.16 | - |

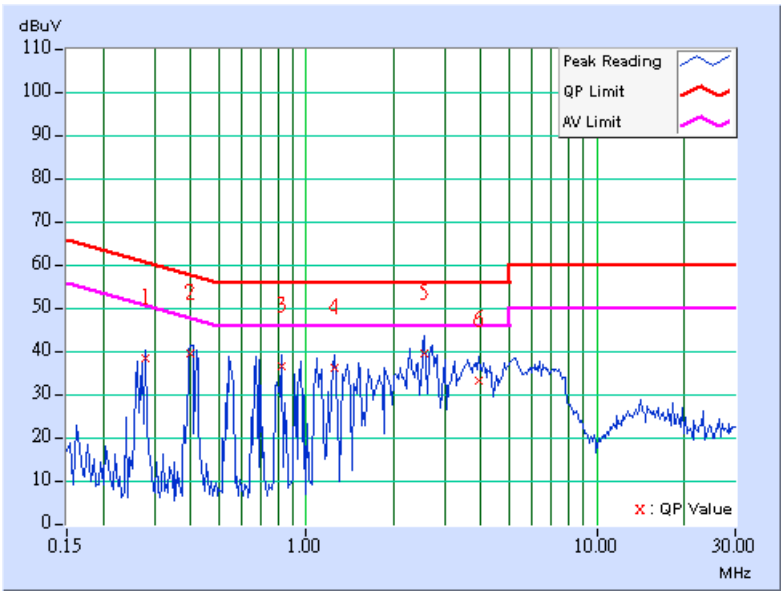
**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



| | | | |
|---|---|---|---|
| **EUT** | Dual-Band Wireless A+G Router | **MODEL** | F6D3230-4 |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **6dB BANDWIDTH** | 9 kHz |
| **ENVIRONMENTAL CONDITIONS** | 24 deg. C, 64% RH, 991 hPa | **PHASE** | Neutral (N) |
| **TESTED BY** | Leo Hung | | |

| No | Freq. | Corr. Factor | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.279 | 0.11 | 38.34 | - | 38.45 | - | 60.85 | 50.85 | -22.40 | - |
| 2 | 0.400 | 0.11 | 39.24 | - | 39.35 | - | 57.85 | 47.85 | -18.50 | - |
| 3 | 0.822 | 0.20 | 36.54 | - | 36.74 | - | 56.00 | 46.00 | -19.26 | - |
| 4 | 1.254 | 0.24 | 36.00 | - | 36.24 | - | 56.00 | 46.00 | -19.76 | - |
| **5** | **2.555** | **0.26** | **39.49** | **-** | **39.75** | **-** | **56.00** | **46.00** | **-16.25** | **-** |
| 6 | 3.910 | 0.30 | 33.13 | - | 33.43 | - | 56.00 | 46.00 | -22.57 | - |

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



## 5.2 RADIATED EMISSION MEASUREMENT

### 5.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

| Frequencies (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|---|---|---|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

**NOTE**:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

## 5.2.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

| **Frequencies (MHz)** | **EIRP Limit (dBm)** | **Equivalent Field Strength at 3m (dBμV/m)** *note 3 |
|---|---|---|
| 5150~5250 | -27 | 68.3 |
| 5250~5350 | -27 | 68.3 |
| 5725~5825 | -27 *note 1 | 68.3 |
| | -17 *note 2 | 78.3 |

**NOTE**:

1. For frequencies 10MHz or greater above or below the band edge.
2. All emissions within the frequency range from the band edge to 10MHz above or below the band edge.
3. The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength

$$E=\frac{1000000\sqrt{30P}}{3}\quad \mu V/m, \text{ where P is the eirp (Watts)}$$

## 5.2.3 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED UNTIL |
|---|---|---|---|
| Test Receiver<br>ROHDE & SCHWARZ | ESIB7 | 100188 | Jan. 13, 2005 |
| Spectrum Analyzer<br>ROHDE & SCHWARZ | FSP40 | 100039 | Nov. 21, 2005 |
| BILOG Antenna<br>SCHWARZBECK | VULB9168 | 9168-157 | Feb. 03, 2005 |
| HORN Antenna<br>SCHWARZBECK | BBHA 9120 D | 9120D-407 | Feb. 03, 2005 |
| HORN Antenna<br>SCHWARZBECK | BBHA 9170 | BBHA 9170241 | Feb. 23, 2005 |
| Preamplifier<br>Agilent | 8449B | 3008A01961 | Nov. 09, 2005 |
| Preamplifier<br>Agilent | 8447D | 2944A10629 | Nov. 09, 2005 |
| RF signal cable<br>HUBER+SUHNER | SUCOFLEX 104 | 218182/4 | Mar. 04, 2005 |
| RF signal cable<br>HUBER+SUHNER | SUCOFLEX 104 | 218194/4 | Mar. 04, 2005 |
| Software<br>ADT. | ADT_Radiated_V5.14 | NA | NA |
| Antenna Tower<br>ADT. | AT100 | AT93021702 | NA |
| Turn Table<br>ADT. | TT100. | TT93021702 | NA |
| Controller<br>ADT. | SC100. | SC93021702 | NA |

**NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Chamber 1.

3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.

4. The IC Site Registration No. is IC4924-2.

## 5.2.4 TEST PROCEDURES

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

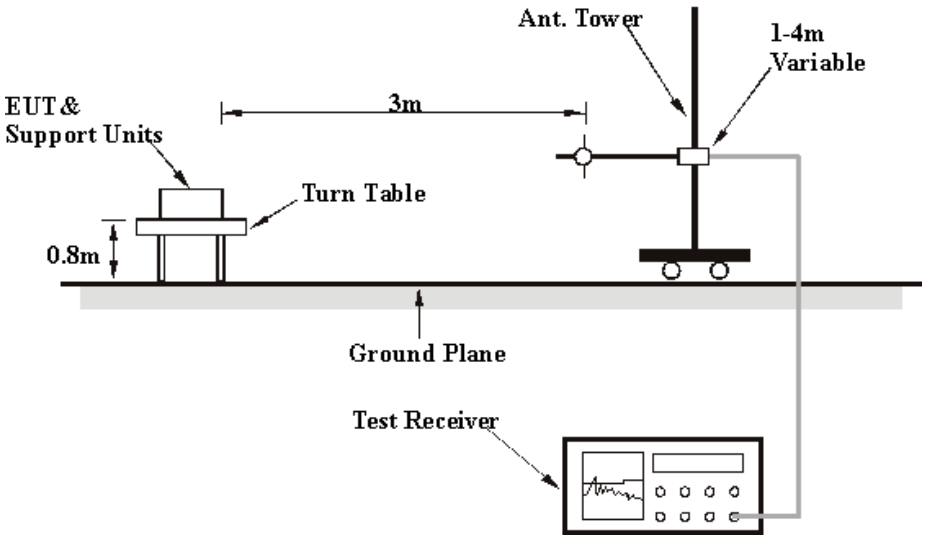
**NOTE:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

## 5.2.5 DEVIATION FROM TEST STANDARD

No deviation.

## 5.2.6 TEST SETUP




For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

## 5.2.7 EUT OPERATING CONDITIONS

Same as 4.1.6.

## 5.2.8 TEST RESULTS

| | | | |
|---|---|---|---|
| **EUT** | Dual-Band Wireless A+G Router | **MODEL** | F6D3230-4 |
| **CHANNEL** | Channel 5 | **FREQUENCY RANGE** | Below 1000MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION** | Quasi-Peak |
| **ENVIRONMENTAL CONDITIONS** | 22 deg. C, 60% RH, 991 hPa | **TESTED BY** | Match Tsui |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 59.16 | 27.99 QP | 40.00 | -12.01 | 2.00 H | 214 | 14.20 | 13.79 |
| 2 | 105.81 | 30.05 QP | 43.50 | -13.45 | 1.50 H | 55 | 18.48 | 11.58 |
| 3 | 146.63 | 33.92 QP | 43.50 | -9.58 | 2.00 H | 268 | 19.35 | 14.58 |
| 4 | 199.12 | 29.91 QP | 43.50 | -13.59 | 1.50 H | 40 | 18.45 | 11.46 |
| 5 | 249.66 | 43.21 QP | 46.00 | -2.79 | 1.00 H | 10 | 30.00 | 13.22 |
| 6 | 300.20 | 28.11 QP | 46.00 | -17.89 | 1.00 H | 7 | 13.61 | 14.50 |
| 7 | 348.80 | 31.47 QP | 46.00 | -14.53 | 1.00 H | 13 | 15.84 | 15.62 |
| 8 | 399.34 | 32.92 QP | 46.00 | -13.08 | 1.00 H | 10 | 16.18 | 16.74 |
| 9 | 479.04 | 33.45 QP | 46.00 | -12.55 | 1.50 H | 19 | 15.00 | 18.45 |
| 10 | 550.96 | 31.00 QP | 46.00 | -15.00 | 2.00 H | 19 | 11.29 | 19.72 |
| 11 | 599.56 | 36.48 QP | 46.00 | -9.52 | 1.00 H | 178 | 15.48 | 21.00 |
| 12 | 650.10 | 28.83 QP | 46.00 | -17.17 | 2.00 H | 10 | 7.15 | 21.68 |
| 13 | 681.20 | 31.19 QP | 46.00 | -14.81 | 2.00 H | 13 | 9.12 | 22.07 |
| 14 | 751.18 | 33.06 QP | 46.00 | -12.94 | 1.00 H | 37 | 9.52 | 23.54 |
| 15 | 799.78 | 31.28 QP | 46.00 | -14.72 | 1.00 H | 166 | 7.46 | 23.82 |
| 16 | 875.59 | 31.45 QP | 46.00 | -14.55 | 1.50 H | 52 | 6.79 | 24.66 |

**REMARKS**: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)

2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)

3. The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

| | | | |
|---|---|---|---|
| **EUT** | Dual-Band Wireless A+G Router | **MODEL** | F6D3230-4 |
| **CHANNEL** | Channel 5 | **FREQUENCY RANGE** | Below 1000MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60Hz | **DETECTOR FUNCTION** | Quasi-Peak |
| **ENVIRONMENTAL CONDITIONS** | 22 deg. C, 60% RH, 991 hPa | **TESTED BY** | Match Tsui |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 48.12 | 38.56 QP | 40.00 | -1.44 | 1.00 V | 223 | 23.63 | 14.93 |
| 2 | 86.37 | 33.87 QP | 40.00 | -6.13 | 1.00 V | 316 | 23.76 | 10.12 |
| 3 | 146.63 | 37.73 QP | 43.50 | -5.77 | 1.00 V | 325 | 23.15 | 14.58 |
| 4 | 199.12 | 32.05 QP | 43.50 | -11.45 | 1.00 V | 331 | 20.60 | 11.46 |
| 5 | 249.66 | 44.64 QP | 46.00 | -1.36 | 1.00 V | 319 | 31.42 | 13.22 |
| 6 | 329.36 | 33.75 QP | 46.00 | -12.25 | 1.50 V | 286 | 18.57 | 15.18 |
| 7 | 399.34 | 31.09 QP | 46.00 | -14.91 | 1.00 V | 229 | 14.36 | 16.74 |
| 8 | 440.16 | 29.07 QP | 46.00 | -16.93 | 1.00 V | 46 | 11.26 | 17.81 |
| 9 | 500.42 | 30.02 QP | 46.00 | -15.98 | 1.50 V | 310 | 11.28 | 18.74 |
| 10 | 550.96 | 35.08 QP | 46.00 | -10.92 | 1.00 V | 94 | 15.36 | 19.72 |
| 11 | 599.56 | 36.38 QP | 46.00 | -9.62 | 1.00 V | 82 | 15.38 | 21.00 |
| 12 | 650.10 | 30.79 QP | 46.00 | -15.21 | 1.00 V | 286 | 9.11 | 21.68 |
| 13 | 681.20 | 32.12 QP | 46.00 | -13.88 | 1.00 V | 259 | 10.06 | 22.07 |
| 14 | 751.18 | 33.94 QP | 46.00 | -12.06 | 1.00 V | 16 | 10.40 | 23.54 |
| 15 | 875.59 | 33.12 QP | 46.00 | -12.88 | 1.00 V | 304 | 8.46 | 24.66 |
| 16 | 990.28 | 37.97 QP | 54.00 | -16.03 | 1.00 V | 280 | 12.20 | 25.77 |

**REMARKS**: 1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)

2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)

3. The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

| | | | |
|---|---|---|---|
| **EUT** | Dual-Band Wireless A+G Router | **MODEL** | F6D3230-4 |
| **MODE** | Normal Mode | **CHANNEL** | 1 |
| **FREQUENCY RANGE** | 1 ~ 40 GHz | **DETECTOR FUNCTION** | Peak(PK)<br>Average (AV) |
| **ENVIRONMENTAL CONDITIONS** | 25 deg. C, 60% RH, 991 hPa | **INPUT POWER (SYSTEM)** | 120Vac, 60Hz |
| **TESTED BY** | Match Tsui | | |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 3453.00 | 48.25 PK | 68.30 | -20.05 | 1.11 H | 20 | 12.67 | 35.58 |
| 2 | #5150.00 | 51.21 PK | 74.00 | -22.79 | 1.00 H | 280 | 12.11 | 39.10 |
| 2 | #5150.00 | 40.52 AV | 54.00 | -13.48 | 1.00 H | 280 | 1.42 | 39.10 |
| 3 | *5180.00 | 101.78 PK | | | 1.00 H | 280 | 62.61 | 39.17 |
| 3 | *5180.00 | 90.59 AV | | | 1.00 H | 280 | 51.42 | 39.17 |
| 4 | 10360.00 | 59.47 PK | 68.30 | -8.83 | 1.02 H | 240 | 14.18 | 45.29 |
| 5 | #15540.00 | 64.26 PK | 74.00 | -9.74 | 1.01 H | 300 | 15.72 | 48.54 |
| 5 | #15540.00 | 52.18 AV | 54.00 | -1.82 | 1.01 H | 300 | 3.64 | 48.54 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 3453.00 | 56.14 PK | 68.30 | -12.16 | 1.10 V | 125 | 20.56 | 35.58 |
| 2 | #5150.00 | 63.25 PK | 74.00 | -10.75 | 1.14 V | 260 | 24.15 | 39.10 |
| 2 | #5150.00 | 52.39 AV | 54.00 | -1.61 | 1.14 V | 260 | 13.29 | 39.10 |
| 3 | *5180.00 | 114.20 PK | | | 1.14 V | 260 | 75.03 | 39.17 |
| 3 | *5180.00 | 102.10 AV | | | 1.14 V | 260 | 62.93 | 39.17 |
| 4 | 10360.00 | 66.51 PK | 68.30 | -1.79 | 1.11 V | 360 | 21.22 | 45.29 |
| 5 | #15540.00 | 64.25 PK | 74.00 | -9.75 | 1.21 V | 111 | 15.71 | 48.54 |
| 5 | #15540.00 | 52.31 AV | 54.00 | -1.69 | 1.21 V | 111 | 3.77 | 48.54 |

**NOTE:**

1. Emission level = Raw value + Correction Factor
2. Correction Factor = Ant. Factor + Cable loss
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. “*” : Fundamental frequency
6. “#”The radiated frequency falling in the restricted band.

| | | | |
|---|---|---|---|
| **EUT** | Dual-Band Wireless A+G Router | **MODEL** | F6D3230-4 |
| **MODE** | Normal Mode | **CHANNEL** | 4 |
| **FREQUENCY RANGE** | 1 ~ 40 GHz | **DETECTOR FUNCTION** | Peak(PK)<br>Average (AV) |
| **ENVIRONMENTAL CONDITIONS** | 25 deg. C, 60% RH, 991 hPa | **INPUT POWER (SYSTEM)** | 120Vac, 60Hz |
| **TESTED BY** | Match Tsui | | |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | #1320.00 | 44.25 PK | 74.00 | -29.75 | 1.01 H | 125 | 16.82 | 27.43 |
| 1 | #1320.00 | 36.59 AV | 54.00 | -17.41 | 1.01 H | 125 | 9.16 | 27.43 |
| 2 | 3493.00 | 51.60 PK | 68.30 | -16.70 | 1.00 H | 254 | 15.90 | 35.70 |
| 3 | *5240.00 | 103.49 PK | | | 1.41 H | 120 | 64.31 | 39.18 |
| 3 | *5240.00 | 94.58 AV | | | 1.41 H | 120 | 55.40 | 39.18 |
| 4 | 10480.00 | 59.31 PK | 68.30 | -8.99 | 1.02 H | 40 | 13.23 | 46.08 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | #1320.00 | 44.90 PK | 74.00 | -29.10 | 1.00 V | 120 | 17.47 | 27.43 |
| 1 | #1320.00 | 37.89 AV | 54.00 | -16.11 | 1.00 V | 120 | 10.46 | 27.43 |
| 2 | 3493.00 | 54.69 PK | 68.30 | -13.61 | 1.02 V | 244 | 18.99 | 35.70 |
| 3 | *5240.00 | 114.38 PK | | | 1.24 V | 206 | 75.20 | 39.18 |
| 3 | *5240.00 | 103.65 AV | | | 1.24 V | 206 | 64.47 | 39.18 |
| 4 | 10480.00 | 63.58 PK | 68.30 | -4.72 | 1.22 V | 321 | 17.50 | 46.08 |

**NOTE:**

1. Emission level = Raw value + Correction Factor
2. Correction Factor = Ant. Factor + Cable loss
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. “*” : Fundamental frequency
6. “#”The radiated frequency falling in the restricted band.

| | | | |
|---|---|---|---|
| **EUT** | Dual-Band Wireless A+G Router | **MODEL** | F6D3230-4 |
| **MODE** | Normal Mode | **CHANNEL** | 5 |
| **FREQUENCY RANGE** | 1 ~ 40 GHz | **DETECTOR FUNCTION** | Peak(PK)<br>Average (AV) |
| **ENVIRONMENTAL CONDITIONS** | 25 deg. C, 60% RH, 991 hPa | **INPUT POWER (SYSTEM)** | 120Vac, 60Hz |
| **TESTED BY** | Match Tsui | | |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | #1320.00 | 43.49 PK | 74.00 | -30.51 | 1.04 H | 125 | 16.06 | 27.43 |
| 1 | #1320.00 | 38.60 AV | 54.00 | -15.40 | 1.04 H | 125 | 11.17 | 27.43 |
| 2 | #3506.00 | 51.69 PK | 74.00 | -22.31 | 1.11 H | 257 | 15.96 | 35.73 |
| 2 | #3506.00 | 42.71 AV | 54.00 | -11.29 | 1.11 H | 257 | 6.98 | 35.73 |
| 3 | *5260.00 | 103.14 PK | | | 1.12 H | 274 | 63.98 | 39.16 |
| 3 | *5260.00 | 93.56 AV | | | 1.12 H | 274 | 54.40 | 39.16 |
| 4 | 10520.00 | 59.68 PK | 68.30 | -8.62 | 1.11 H | 341 | 13.52 | 46.16 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | #1320.00 | 44.50 PK | 74.00 | -29.50 | 1.20 V | 189 | 17.07 | 27.43 |
| 1 | #1320.00 | 35.68 AV | 54.00 | -18.32 | 1.20 V | 189 | 8.25 | 27.43 |
| 2 | #3506.00 | 55.69 PK | 74.00 | -18.31 | 1.11 V | 188 | 19.96 | 35.73 |
| 2 | #3506.00 | 50.89 AV | 54.00 | -3.11 | 1.11 V | 188 | 15.16 | 35.73 |
| 3 | *5260.00 | 116.54 PK | | | 1.01 V | 111 | 77.38 | 39.16 |
| 3 | *5260.00 | 106.28 AV | | | 1.01 V | 111 | 67.12 | 39.16 |
| 4 | 10520.00 | 63.28 PK | 68.30 | -5.02 | 1.03 V | 300 | 17.12 | 46.16 |

**NOTE:**

1. Emission level = Raw value + Correction Factor
2. Correction Factor = Ant. Factor + Cable loss
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. “*” : Fundamental frequency
6. “#”The radiated frequency falling in the restricted band.

| EUT | Dual-Band Wireless A+G Router | MODEL | F6D3230-4 |
|---|---|---|---|
| MODE | Normal Mode | CHANNEL | 8 |
| FREQUENCY RANGE | 1 ~ 40 GHz | DETECTOR FUNCTION | Peak(PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25 deg. C, 60% RH,<br>991 hPa | INPUT POWER (SYSTEM) | 120Vac, 60Hz |
| TESTED BY | Match Tsui | | |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | #3547.00 | 52.31 PK | 74.00 | -21.69 | 1.10 H | 12 | 16.46 | 35.85 |
| 1 | #3547.00 | 43.57 AV | 54.00 | -10.43 | 1.10 H | 12 | 7.72 | 35.85 |
| 2 | *5320.00 | 102.42 PK | | | 1.01 H | 243 | 63.27 | 39.15 |
| 2 | *5320.00 | 91.23 AV | | | 1.01 H | 243 | 52.08 | 39.15 |
| 3 | #5350.00 | 49.82 PK | 74.00 | -24.18 | 1.01 H | 243 | 10.62 | 39.20 |
| 3 | #5350.00 | 38.16 AV | 54.00 | -15.84 | 1.01 H | 243 | -1.04 | 39.20 |
| 4 | #10640.00 | 59.62 PK | 74.00 | -14.38 | 1.00 H | 45 | 13.39 | 46.23 |
| 4 | #10640.00 | 47.25 AV | 54.00 | -6.75 | 1.00 H | 45 | 1.02 | 46.23 |
| 5 | #15960.00 | 64.26 PK | 74.00 | -9.74 | 1.00 H | 135 | 19.30 | 44.96 |
| 5 | #15960.00 | 51.28 AV | 54.00 | -2.72 | 1.00 H | 135 | 6.32 | 44.96 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | #3547.00 | 55.71 PK | 74.00 | -18.29 | 1.05 V | 258 | 19.86 | 35.85 |
| 1 | #3547.00 | 49.68 AV | 54.00 | -4.32 | 1.05 V | 258 | 13.83 | 35.85 |
| 2 | *5320.00 | 114.24 PK | | | 1.10 V | 321 | 75.09 | 39.15 |
| 2 | *5320.00 | 103.51 AV | | | 1.10 V | 321 | 64.36 | 39.15 |
| 3 | #5350.00 | 61.27 PK | 74.00 | -12.73 | 1.10 V | 321 | 22.07 | 39.20 |
| 3 | #5350.00 | 50.28 AV | 54.00 | -3.72 | 1.10 V | 321 | 11.08 | 39.20 |
| 4 | #10640.00 | 63.45 PK | 74.00 | -10.55 | 1.02 V | 147 | 17.22 | 46.23 |
| 4 | #10640.00 | 49.59 AV | 54.00 | -4.41 | 1.02 V | 147 | 3.36 | 46.23 |
| 5 | #15960.00 | 65.12 PK | 74.00 | -8.88 | 1.10 V | 253 | 20.16 | 44.96 |
| 5 | #15960.00 | 52.36 AV | 54.00 | -1.64 | 1.10 V | 253 | 7.40 | 44.96 |

**NOTE:**

1. Emission level = Raw value + Correction Factor
2. Correction Factor = Ant. Factor + Cable loss
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. “*” : Fundamental frequency
6. “#”The radiated frequency falling in the restricted band.

| | | | |
|---|---|---|---|
| **EUT** | Dual-Band Wireless A+G Router | **MODEL** | F6D3230-4 |
| **MODE** | Turbo Mode | **CHANNEL** | 1 |
| **FREQUENCY RANGE** | 1 ~ 40 GHz | **DETECTOR FUNCTION** | Peak(PK)<br>Average (AV) |
| **ENVIRONMENTAL CONDITIONS** | 25 deg. C, 60% RH, 991 hPa | **INPUT POWER (SYSTEM)** | 120Vac, 60Hz |
| **TESTED BY** | Match Tsui | | |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | #1320.00 | 44.62 PK | 74.00 | -29.38 | 1.24 H | 260 | 17.19 | 27.43 |
| 1 | #1320.00 | 37.51 AV | 54.00 | -16.49 | 1.24 H | 260 | 10.08 | 27.43 |
| 2 | 3473.00 | 51.28 PK | 68.30 | -17.02 | 1.11 H | 248 | 15.64 | 35.64 |
| 3 | #5150.00 | 53.26 PK | 74.00 | -20.74 | 1.01 H | 45 | 14.16 | 39.10 |
| 3 | #5150.00 | 42.89 AV | 54.00 | -11.11 | 1.01 H | 45 | 3.79 | 39.10 |
| 4 | *5210.00 | 101.14 PK | | | 1.01 H | 45 | 61.93 | 39.21 |
| 4 | *5210.00 | 91.27 AV | | | 1.01 H | 45 | 52.06 | 39.21 |
| 5 | 10420.00 | 59.64 PK | 68.30 | -8.66 | 1.21 H | 147 | 13.87 | 45.77 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | #1320.00 | 47.25 PK | 74.00 | -26.75 | 1.00 V | 107 | 19.82 | 27.43 |
| 1 | #1320.00 | 36.24 AV | 54.00 | -17.76 | 1.00 V | 107 | 8.81 | 27.43 |
| 2 | 3473.00 | 55.63 PK | 68.30 | -12.67 | 1.04 V | 231 | 19.99 | 35.64 |
| 3 | #5150.00 | 63.24 PK | 74.00 | -10.76 | 1.05 V | 321 | 24.14 | 39.10 |
| **3** | **#5150.00** | **52.98 AV** | **54.00** | **-1.02** | **1.05 V** | **321** | **13.88** | **39.10** |
| 4 | *5210.00 | 111.46 PK | | | 1.10 V | 267 | 72.25 | 39.21 |
| 4 | *5210.00 | 101.08 AV | | | 1.10 V | 267 | 61.87 | 39.21 |
| 5 | 10420.00 | 63.18 PK | 68.30 | -5.12 | 1.09 V | 45 | 17.41 | 45.77 |

**NOTE:**

1. Emission level = Raw value+ Correction Factor
2. Correction Factor = Ant. Factor + Cable loss
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. “*” : Fundamental frequency
6. “#”The radiated frequency falling in the restricted band.

| | | | |
|---|---|---|---|
| **EUT** | Dual-Band Wireless A+G Router | **MODEL** | F6D3230-4 |
| **MODE** | Turbo Mode | **CHANNEL** | 2 |
| **FREQUENCY RANGE** | 1 ~ 40 GHz | **DETECTOR FUNCTION** | Peak(PK)<br>Average (AV) |
| **ENVIRONMENTAL CONDITIONS** | 25 deg. C, 60% RH, 991 hPa | **INPUT POWER (SYSTEM)** | 120Vac, 60Hz |
| **TESTED BY** | Match Tsui | | |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | #1320.00 | 45.21 PK | 74.00 | -28.79 | 1.21 H | 147 | 17.78 | 27.43 |
| 1 | #1320.00 | 35.67 AV | 54.00 | -18.33 | 1.21 H | 147 | 8.24 | 27.43 |
| 2 | #3500.00 | 51.26 PK | 74.00 | -22.74 | 1.12 H | 49 | 15.54 | 35.72 |
| 2 | #3500.00 | 43.51 AV | 54.00 | -10.49 | 1.12 H | 49 | 7.79 | 35.72 |
| 3 | *5250.00 | 102.43 PK | | | 1.21 H | 45 | 63.26 | 39.17 |
| 3 | *5250.00 | 92.64 AV | | | 1.21 H | 45 | 53.47 | 39.17 |
| 4 | 10500.00 | 59.44 PK | 68.30 | -8.86 | 1.11 H | 251 | 13.25 | 46.19 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | #1320.00 | 48.21 PK | 74.00 | -25.79 | 1.00 V | 246 | 20.78 | 27.43 |
| 1 | #1320.00 | 37.48 AV | 54.00 | -16.52 | 1.00 V | 246 | 10.05 | 27.43 |
| 2 | #3500.00 | 56.38 PK | 74.00 | -17.62 | 1.02 V | 154 | 20.66 | 35.72 |
| 2 | #3500.00 | 52.48 AV | 54.00 | -1.52 | 1.02 V | 154 | 16.76 | 35.72 |
| 3 | *5250.00 | 113.41 PK | | | 1.00 V | 187 | 74.24 | 39.17 |
| 3 | *5250.00 | 103.61 AV | | | 1.00 V | 187 | 64.44 | 39.17 |
| 4 | 10500.00 | 62.34 PK | 68.30 | -5.96 | 1.21 V | 241 | 16.15 | 46.19 |

**NOTE:**

1. Emission level = Raw value+ Correction Factor
2. Correction Factor = Ant. Factor + Cable loss
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. “*” : Fundamental frequency
6. “#”The radiated frequency falling in the restricted band.

| | | | |
|---|---|---|---|
| **EUT** | Dual-Band Wireless A+G Router | **MODEL** | F6D3230-4 |
| **MODE** | Turbo Mode | **CHANNEL** | 3 |
| **FREQUENCY RANGE** | 1 ~ 40 GHz | **DETECTOR FUNCTION** | Peak(PK)<br>Average (AV) |
| **ENVIRONMENTAL CONDITIONS** | 25 deg. C, 60% RH, 991 hPa | **INPUT POWER (SYSTEM)** | 120Vac, 60Hz |
| **TESTED BY** | Match Tsui | | |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | #1100.00 | 44.21 PK | 74.00 | -29.79 | 1.24 H | 144 | 17.51 | 26.70 |
| 1 | #1100.00 | 40.63 AV | 54.00 | -13.37 | 1.24 H | 144 | 13.93 | 26.70 |
| 2 | #3526.00 | 52.41 PK | 74.00 | -21.59 | 1.10 H | 158 | 16.62 | 35.79 |
| 2 | #3526.00 | 43.25 AV | 54.00 | -10.75 | 1.10 H | 158 | 7.46 | 35.79 |
| 3 | *5290.00 | 101.24 PK | | | 1.21 H | 141 | 62.11 | 39.13 |
| 3 | *5290.00 | 91.56 AV | | | 1.21 H | 141 | 52.43 | 39.13 |
| 4 | #5350.00 | 46.47 PK | 74.00 | -27.53 | 1.21 H | 141 | 7.27 | 39.20 |
| 4 | #5350.00 | 36.54 AV | 54.00 | -17.46 | 1.21 H | 141 | -2.66 | 39.20 |
| 5 | 10580.00 | 59.64 PK | 68.30 | -8.66 | 1.21 H | 230 | 13.57 | 46.07 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | #1100.00 | 50.12 PK | 74.00 | -23.88 | 1.00 V | 45 | 23.42 | 26.70 |
| 1 | #1100.00 | 45.26 AV | 54.00 | -8.74 | 1.00 V | 45 | 18.56 | 26.70 |
| 2 | #3526.00 | 54.27 PK | 74.00 | -19.73 | 1.01 V | 240 | 18.48 | 35.79 |
| 2 | #3526.00 | 49.35 AV | 54.00 | -4.65 | 1.01 V | 240 | 13.56 | 35.79 |
| 3 | *5290.00 | 112.13 PK | | | 1.12 V | 321 | 73.00 | 39.13 |
| 3 | *5290.00 | 101.88 AV | | | 1.12 V | 321 | 62.75 | 39.13 |
| 4 | #5350.00 | 57.10 PK | 74.00 | -16.90 | 1.12 V | 321 | 17.90 | 39.20 |
| 4 | #5350.00 | 47.22 AV | 54.00 | -6.78 | 1.12 V | 321 | 8.02 | 39.20 |
| 5 | 10580.00 | 62.31 PK | 68.30 | -5.99 | 1.20 V | 154 | 16.24 | 46.07 |

**NOTE:**

1. Emission level = Raw value+ Correction Factor
2. Correction Factor = Ant. Factor + Cable loss
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. “*” : Fundamental frequency
6. “#”The radiated frequency falling in the restricted band.

## 5.3 PEAK TRANSMIT POWER MEASUREMENT

### 5.3.1 LIMITS OF PEAK TRANSMIT POWER MEASUREMENT

| Frequency Band | Limit |
|---|---|
| 5.15 – 5.25GHz | The lesser of 50mW (17dBm) or 4dBm + 10logB |
| 5.25 – 5.35GHz | The lesser of 250mW (24dBm) or 11dBm + 10logB |
| 5.725 – 5.825GHz | The lesser of 1W (30dBm) or 17dBm + 10logB |

**NOTE:** Where B is the 26dB emission bandwidth in MHz.

### 5.3.2 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|---|---|---|---|
| R&S SPECTRUM ANALYZER | FSEK30 | 100049 | Aug. 12, 2005 |

**NOTE:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

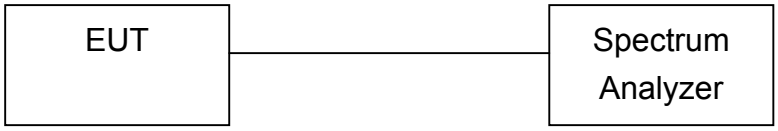
### 5.3.3 TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer.
2. Set span to encompass the entire emission bandwidth of the signal.
3. Set RBW to 1MHz, VBW to 300kHz.
4. Using the spectrum analyzer's channel power measurement function to measure the output power.

### 5.3.4 DEVIATION FROM TEST STANDARD

No deviation

### 5.3.5 TEST SETUP




### 5.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

## 5.3.7 TEST RESULTS

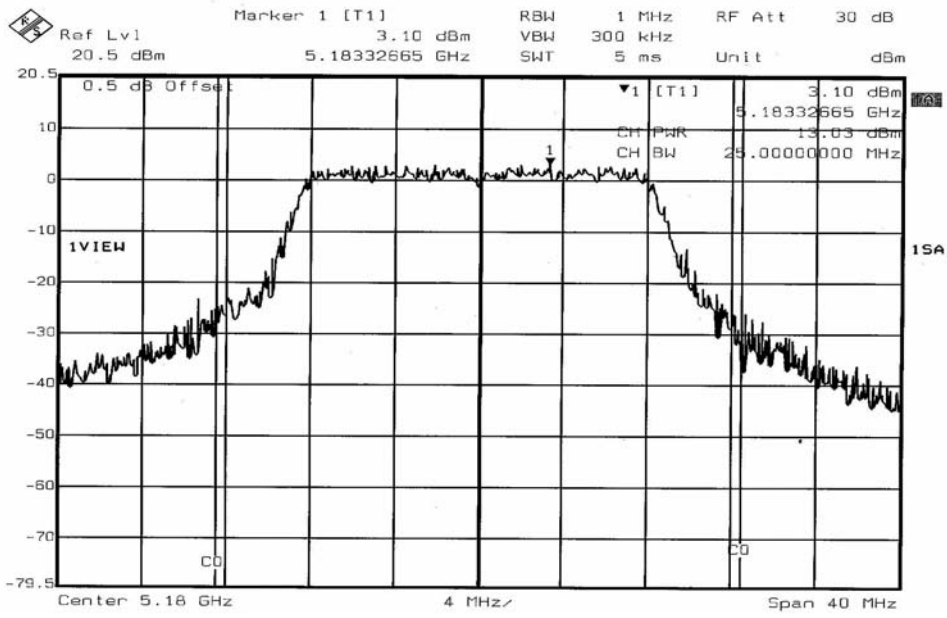
| | | | |
|---|---|---|---|
| **EUT** | Dual-Band Wireless A+G Router | **MODEL** | F6D3230-4 |
| **MODE** | Normal | **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz |
| **ENVIRONMENTAL CONDITIONS** | 24 deg. C, 64% RH, 991 hPa | **TESTED BY** | Leo Hung |

| Channel | Channel Frequency (MHz) | Peak Power Output (mW) | Peak Power Output (dBm) | Peak Power Limit (dBm) | 26dBc Occupied Bandwidth (MHz) | Pass/Fail |
|---|---|---|---|---|---|---|
| 1 | 5180 | 20.091 | 13.03 | 17.00 | 24.48 | PASS |
| 4 | 5240 | 20.464 | 13.11 | 17.00 | 24.55 | PASS |
| 5 | 5260 | 20.091 | 13.03 | 24.00 | 25.32 | PASS |
| 8 | 5320 | 20.230 | 13.06 | 24.00 | 25.32 | PASS |

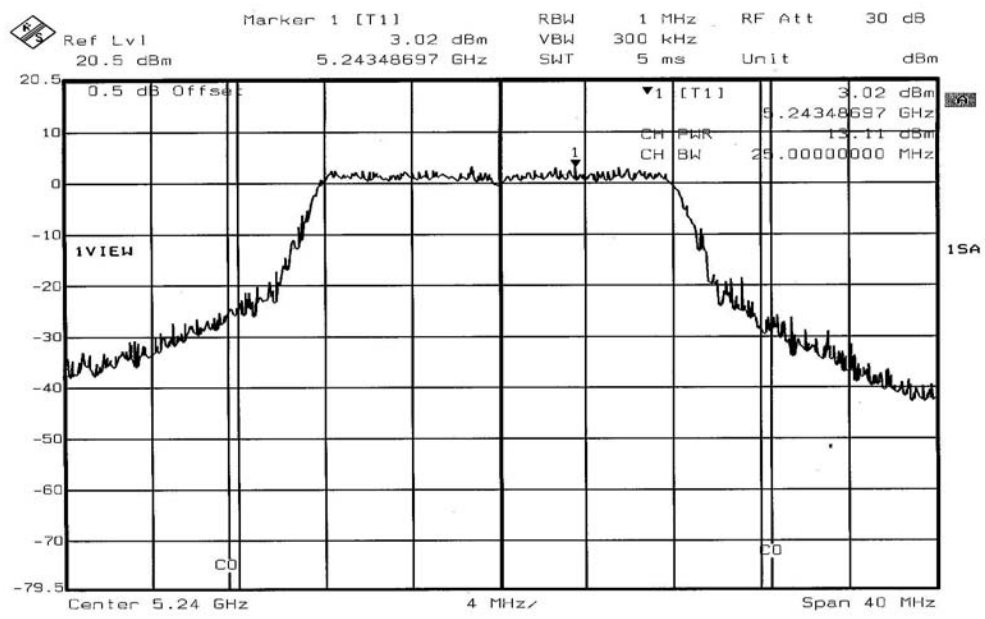
**NOTE:** The 26dBc Occupied Bandwidth plot, please refer to the following pages.

Peak Power Output:

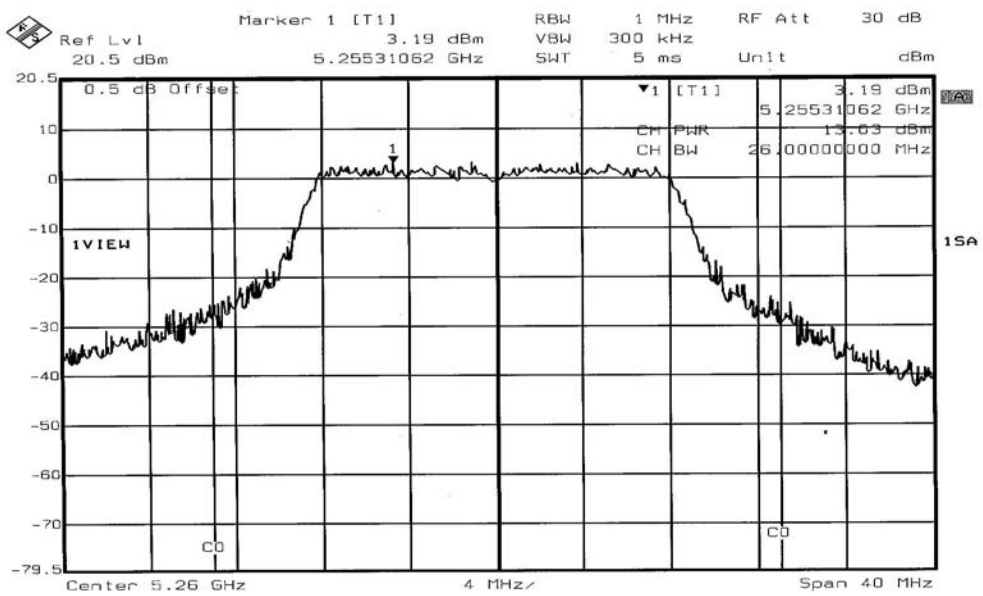
CH1



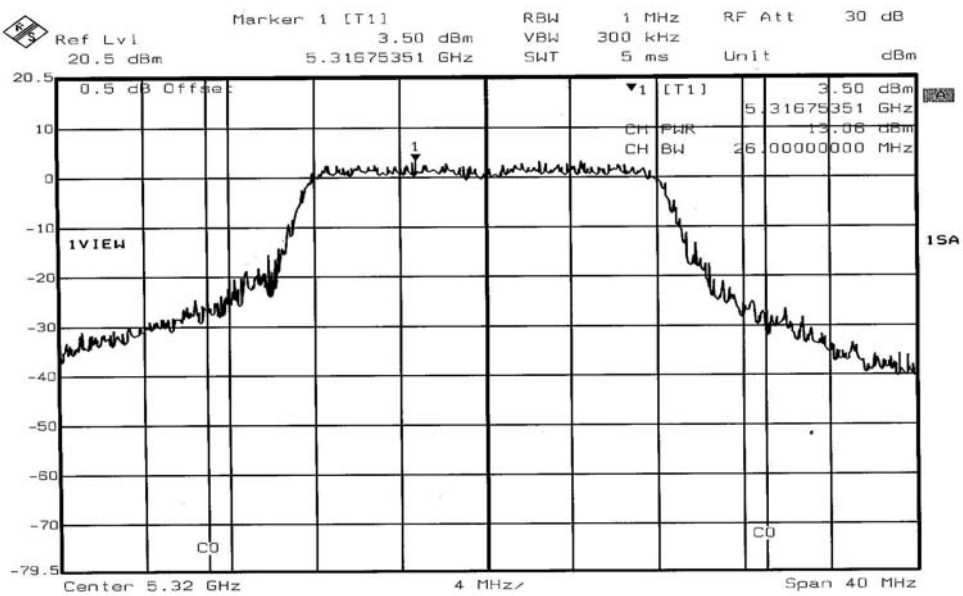

CH4



CH5

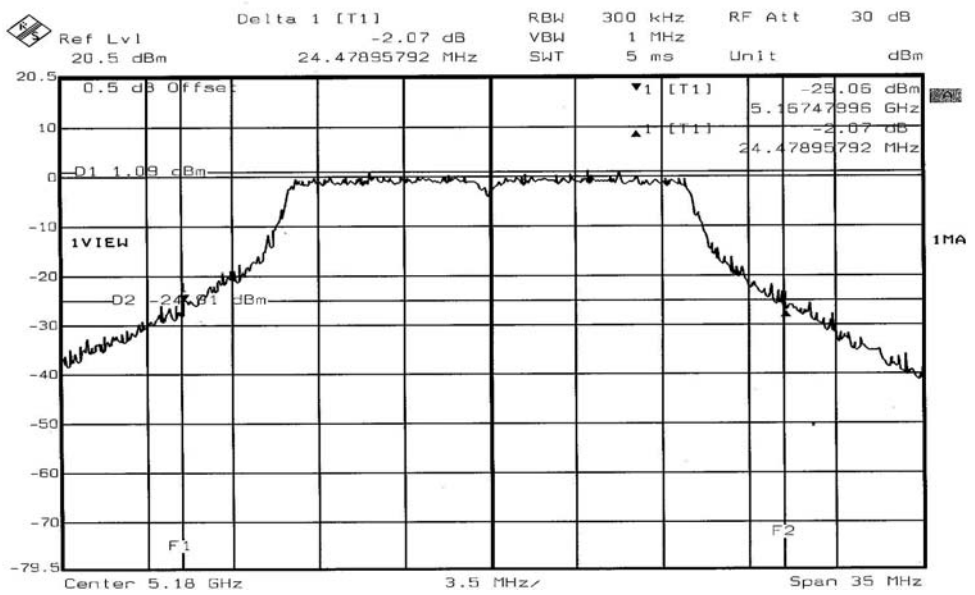

Marker 1 [T1]
Ref Lvl
20.5 dBm
3.19 dBm
5.25531062 GHz
RBW 1 MHz
VBW 300 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
0.5 dB Offset
▼1 [T1]
3.19 dBm
5.25531062 GHz
CH PWR 13.63 dBm
CH BW 26.00000000 MHz
1VIEW
1SA
20.5
10
0
-10
-20
-30
-40
-50
-60
-70
-79.5
CO
Center 5.26 GHz
4 MHz/
Span 40 MHz

CH8

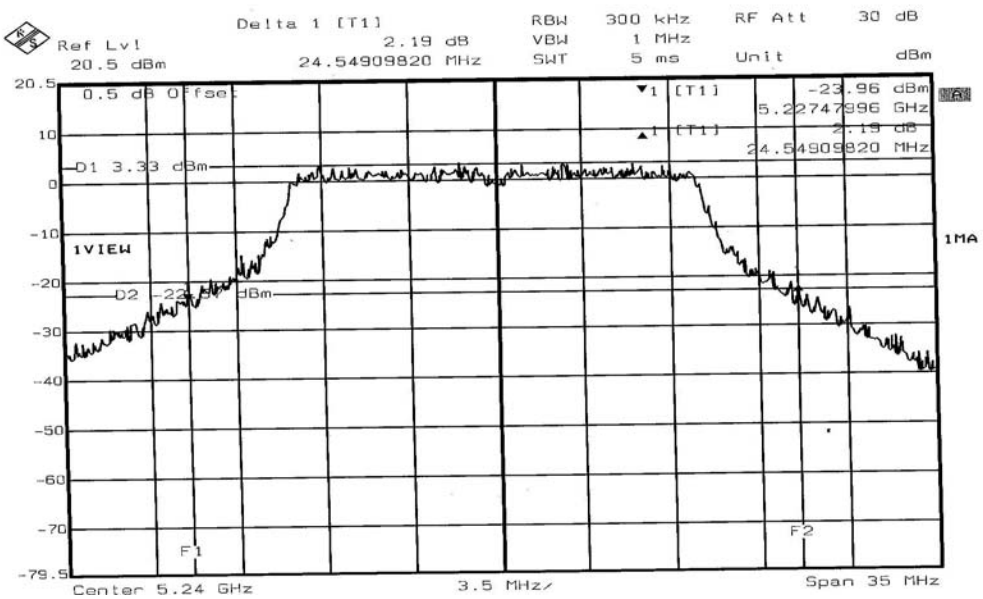

Marker 1 [T1]
Ref Lvl
20.5 dBm
3.50 dBm
5.31675351 GHz
RBW 1 MHz
VBW 300 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
0.5 dB Offset
▼1 [T1]
3.50 dBm
5.31675351 GHz
CH PWR 13.06 dBm
CH BW 26.00000000 MHz
1VIEW
1SA
20.5
10
0
-10
-20
-30
-40
-50
-60
-70
-79.5
CO
Center 5.32 GHz
4 MHz/
Span 40 MHz

## 26dB Occupied Bandwidth:

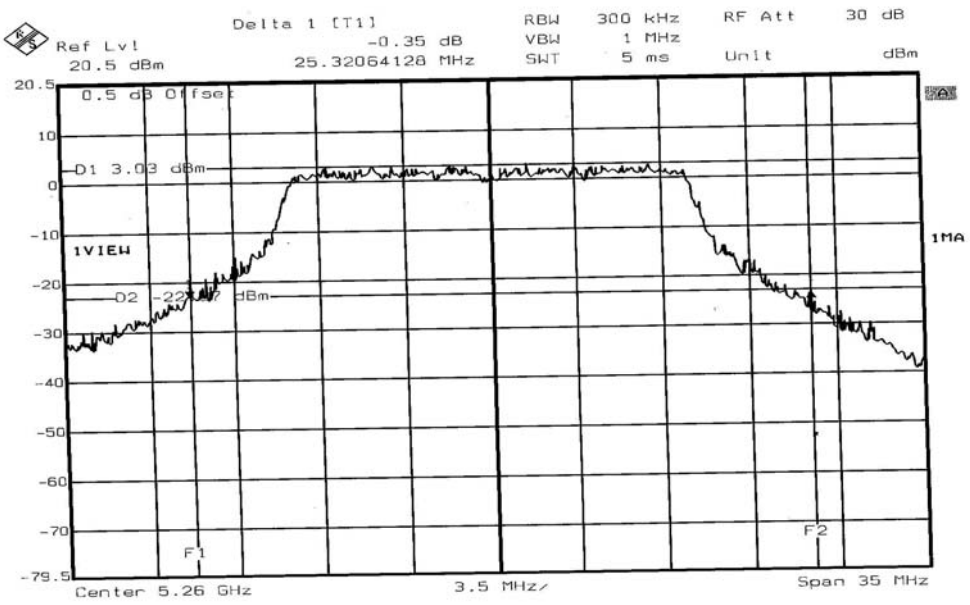
CH1



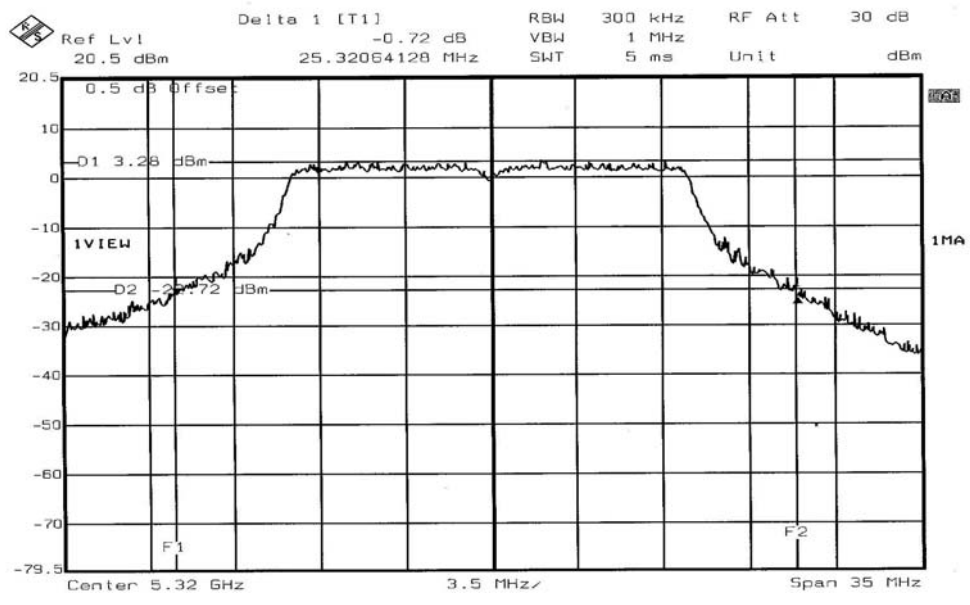

CH4



CH5


Delta 1 [T1]
-0.35 dB
25.32064128 MHz
RBW 300 kHz
VBW 1 MHz
SWT 5 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
D1 3.03 dBm
1VIEW
D2 -22.97 dBm
1MA
F1
F2
Center 5.26 GHz
3.5 MHz/
Span 35 MHz

CH8


Delta 1 [T1]
-0.72 dB
25.32064128 MHz
RBW 300 kHz
VBW 1 MHz
SWT 5 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
D1 3.28 dBm
1VIEW
D2 -22.72 dBm
1MA
F1
F2
Center 5.32 GHz
3.5 MHz/
Span 35 MHz

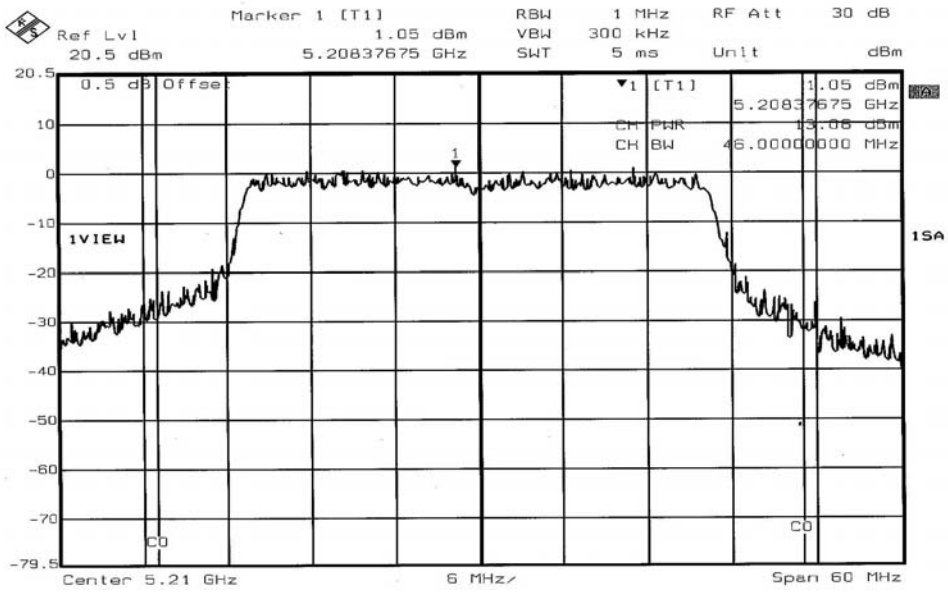
| EUT | Dual-Band Wireless A+G Router | MODEL | F6D3230-4 |
|---|---|---|---|
| MODE | Turbo | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 24 deg. C, 64% RH, 991 hPa | TESTED BY | Leo Hung |

| Channel | Channel Frequency (MHz) | Peak Power Output (dBm) | Peak Power Output (dBm) | Peak Power Limit (dBm) | 26dBc Occupied Bandwidth (MHz) | Pass/Fail |
|---|---|---|---|---|---|---|
| 1 | 5210 | 20.230 | 13.06 | 17.00 | 45.33 | PASS |
| 2 | 5250 | 20.230 | 13.06 | 17.00 | 46.41 | PASS |
| 3 | 5290 | 20.230 | 13.06 | 24.00 | 47.49 | PASS |

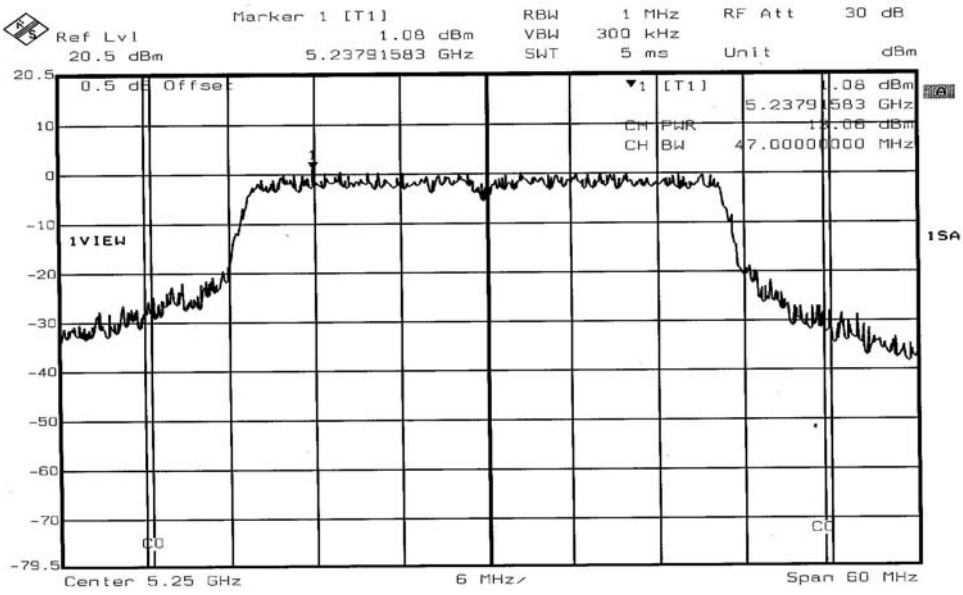
**NOTE:** The 26dBc Occupied Bandwidth plot, please refer to the following pages.

Peak Power Output:

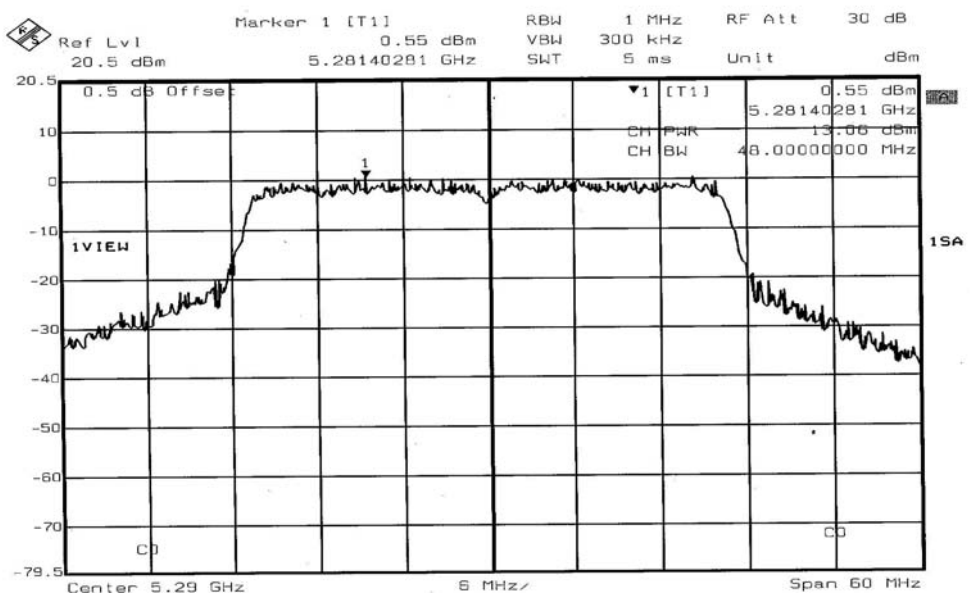
CH1



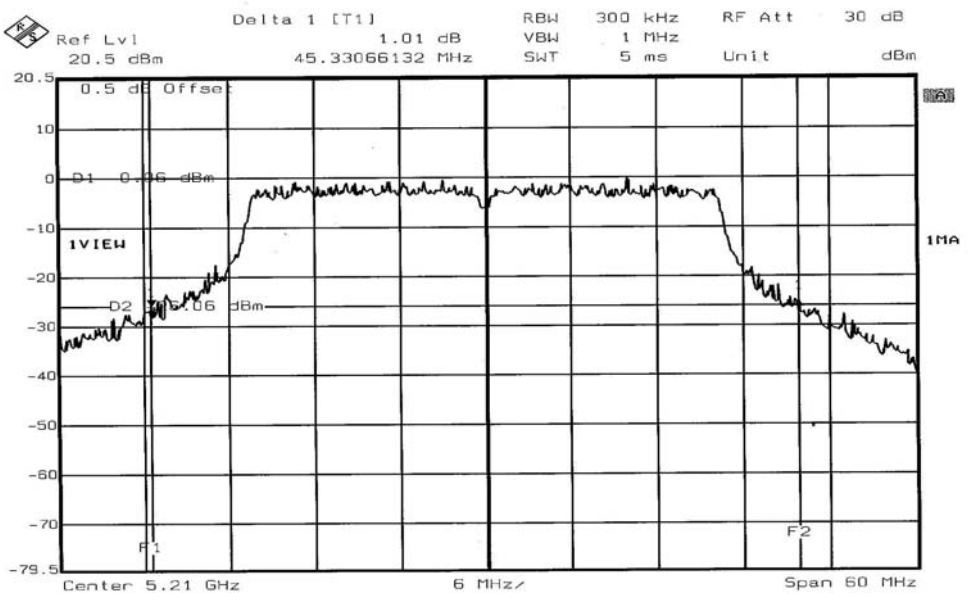

CH2



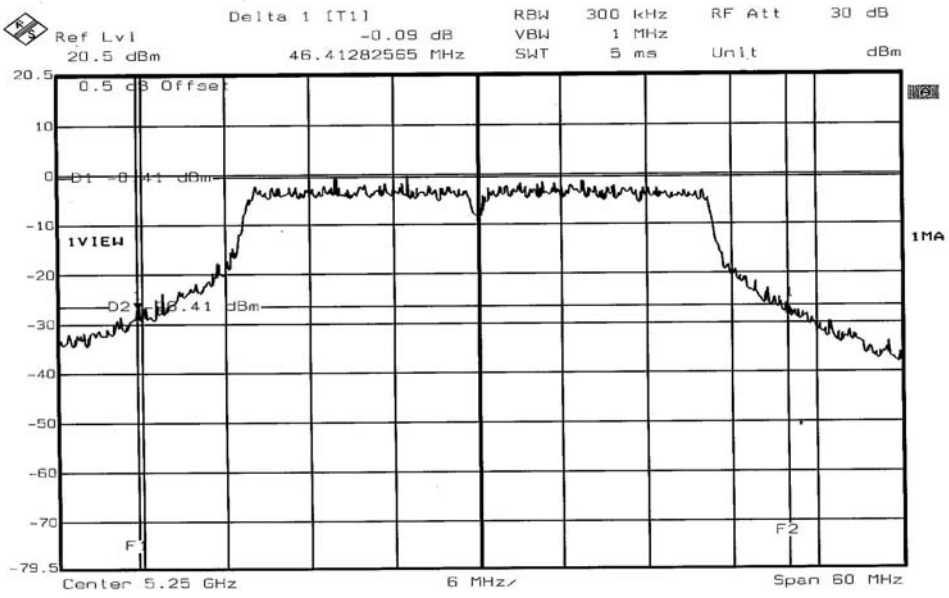
CH3



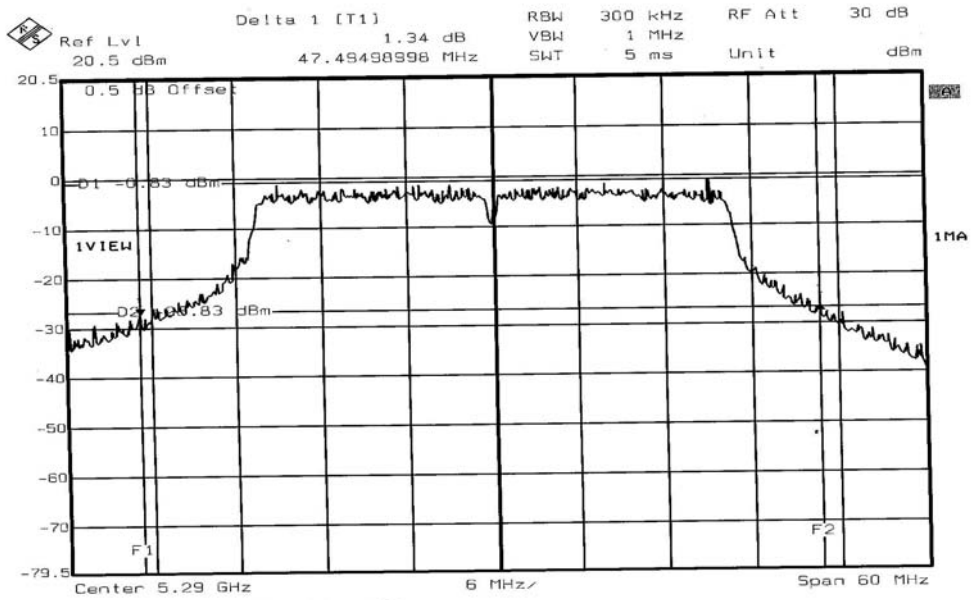

26dB Occupied Bandwidth:
CH1



CH2


Delta 1 [T1]
-0.09 dB
46.41282565 MHz
RBW 300 kHz
VBW 1 MHz
SWT 5 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
D1 -0.41 dBm
D2 -5.41 dBm
1VIEW
1MA
F1
F2
Center 5.25 GHz
6 MHz/
Span 60 MHz

CH3


Delta 1 [T1]
1.34 dB
47.49498998 MHz
RBW 300 kHz
VBW 1 MHz
SWT 5 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
D1 -0.83 dBm
D2 -5.83 dBm
1VIEW
1MA
F1
F2
Center 5.29 GHz
6 MHz/
Span 60 MHz

## 5.4 PEAK POWER EXCURSION MEASUREMENT

### 5.4.1 LIMITS OF PEAK POWER EXCURSION MEASUREMENT

| Frequency Band | Limit |
|---|---|
| 5.15 – 5.25 GHz | 13dB |
| 5.25 – 5.35 GHz | 13dB |
| 5.725 – 5.825 GHz | 13dB |

### 5.4.2 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|---|---|---|---|
| SPECTRUM ANALYZER | FSEK30 | 100049 | Aug. 12, 2005 |

**NOTE:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

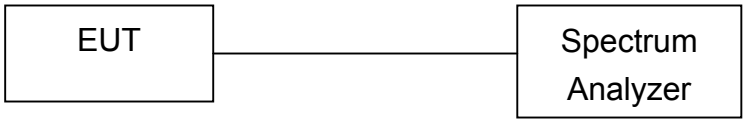
### 5.4.3 TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer.
2. Set the spectrum bandwidth span to view the entire spectrum.
3. Using peak detector and Max-hold function for Trace 1 (RB=1MHz, VB=3MHz) and 2 (RB=1MHz, VB=300KHz).
4. The largest difference between Trace 1 and Trace 2 in any 1MHz band on any frequency was recorded.

### 5.4.4 DEVIATION FROM TEST STANDARD

No deviation

### 5.4.5 TEST SETUP




### 5.4.6 EUT OPERATING CONDITIONS

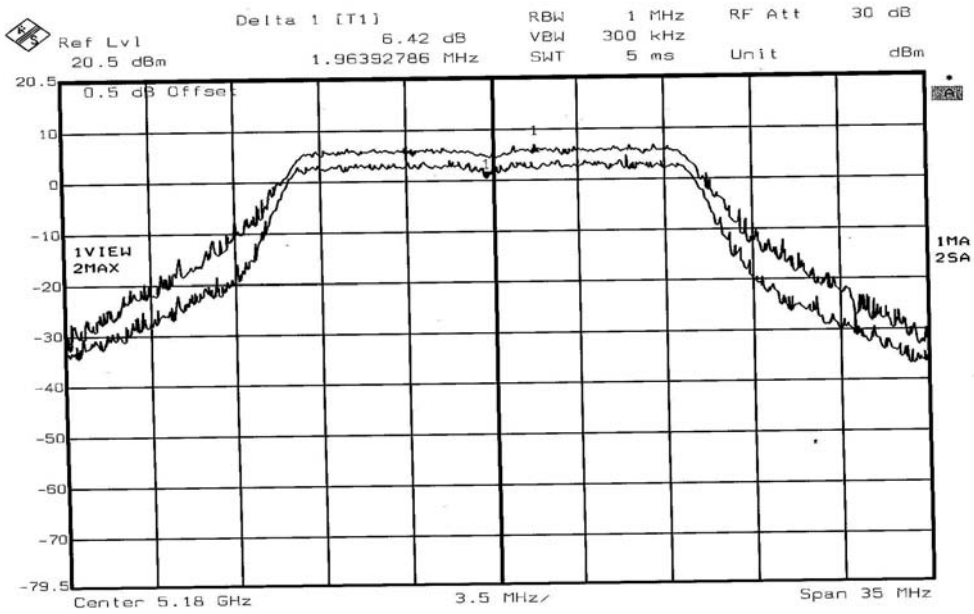
The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

## 5.4.7 TEST RESULTS

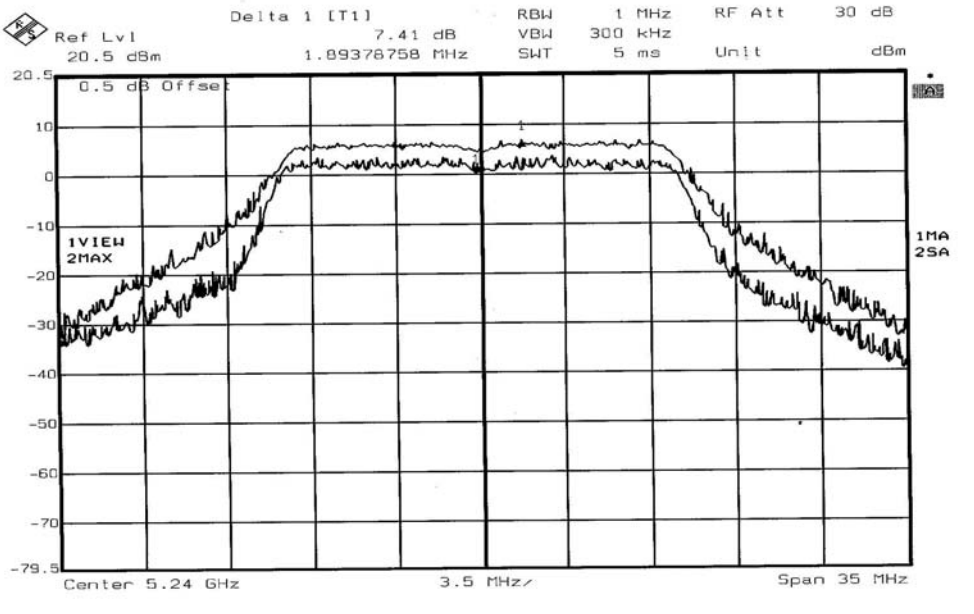
| | | | |
|---|---|---|---|
| **EUT** | Dual-Band Wireless A+G Router | **MODEL** | F6D3230-4 |
| **MODE** | Normal | **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz |
| **ENVIRONMENTAL CONDITIONS** | 24 deg. C, 64% RH, 991 hPa | **TESTED BY** | Leo Hung |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER EXCURSION (dB) | PEAK TO AVERAGE EXCURSION LIMIT (dB) | PASS/FAIL |
|---|---|---|---|---|
| 1 | 5180 | 6.42 | 13 | PASS |
| 4 | 5240 | 7.41 | 13 | PASS |
| 5 | 5260 | 7.57 | 13 | PASS |
| 8 | 5320 | 6.32 | 13 | PASS |

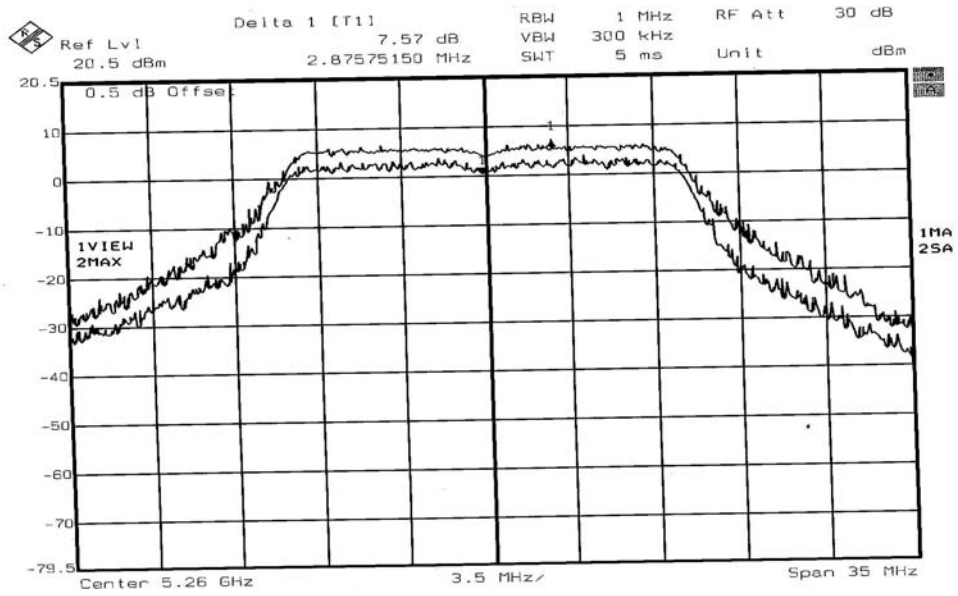
CH1


Delta 1 [T1]
6.42 dB
1.96392786 MHz
RBW 1 MHz
VBW 300 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
1VIEW
2MAX
1MA
2SA
Center 5.18 GHz
3.5 MHz/
Span 35 MHz

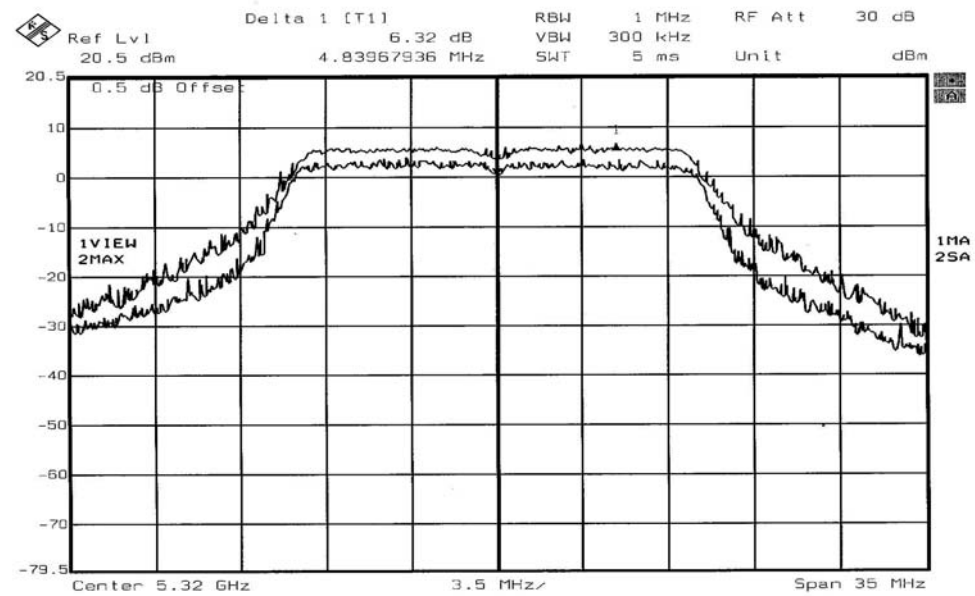
CH4


Delta 1 [T1]
7.41 dB
1.89378758 MHz
RBW 1 MHz
VBW 300 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
1VIEW
2MAX
1MA
2SA
Center 5.24 GHz
3.5 MHz/
Span 35 MHz

CH5


Delta 1 [T1]
7.57 dB
2.87575150 MHz
RBW 1 MHz
VBW 300 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
1VIEW
2MAX
1MA
2SA
Center 5.26 GHz
3.5 MHz/
Span 35 MHz

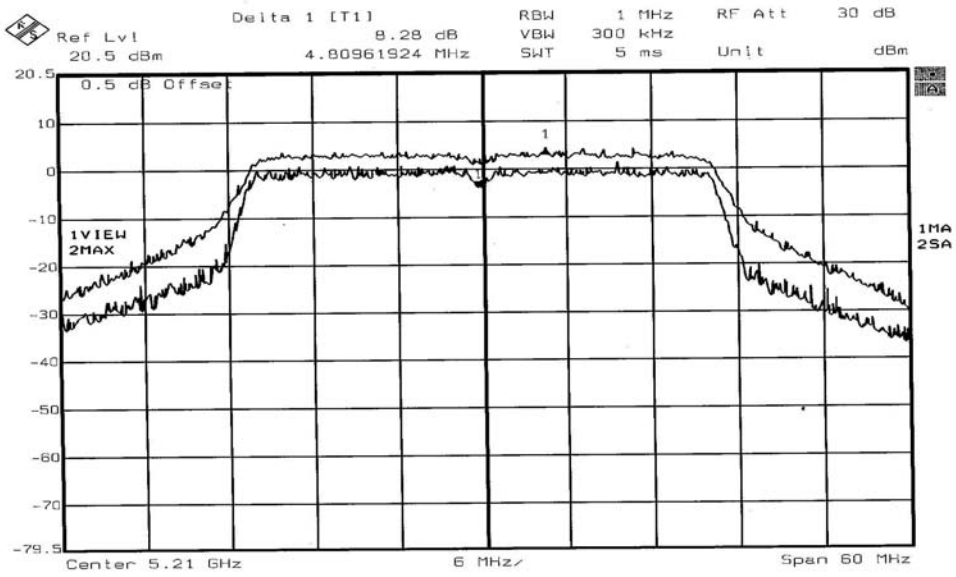
CH8


Delta 1 [T1]
6.32 dB
4.83967936 MHz
RBW 1 MHz
VBW 300 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
1VIEW
2MAX
1MA
2SA
Center 5.32 GHz
3.5 MHz/
Span 35 MHz

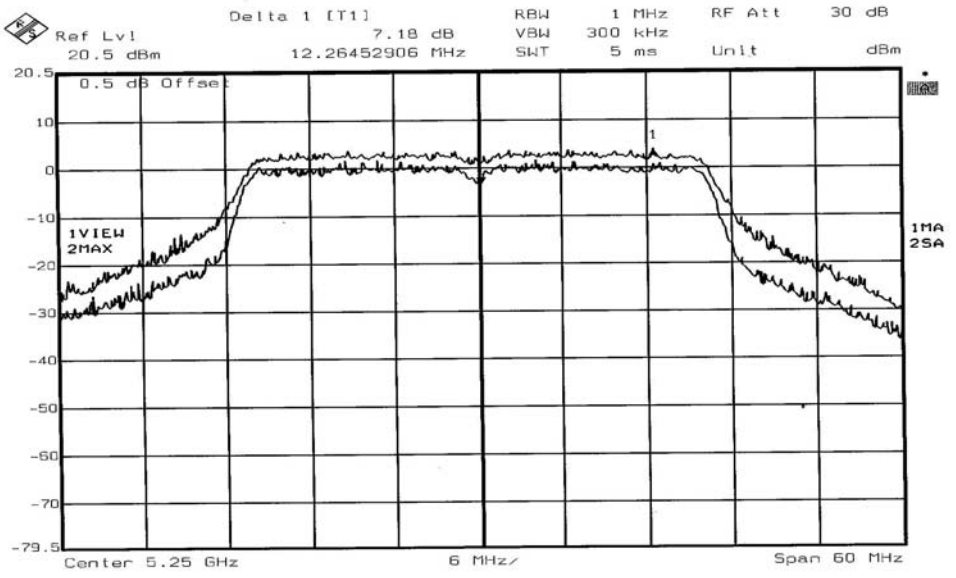
| | | | |
|---|---|---|---|
| **EUT** | Dual-Band Wireless A+G Router | **MODEL** | F6D3230-4 |
| **MODE** | Turbo | **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz |
| **ENVIRONMENTAL CONDITIONS** | 24 deg. C, 64% RH, 991 hPa | **TESTED BY** | Leo Hung |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER EXCURSION (dB) | PEAK TO AVERAGE EXCURSION LIMIT (dB) | PASS/FAIL |
|---|---|---|---|---|
| 1 | 5210 | 8.28 | 13 | PASS |
| 2 | 5250 | 7.18 | 13 | PASS |
| 3 | 5290 | 8.79 | 13 | PASS |

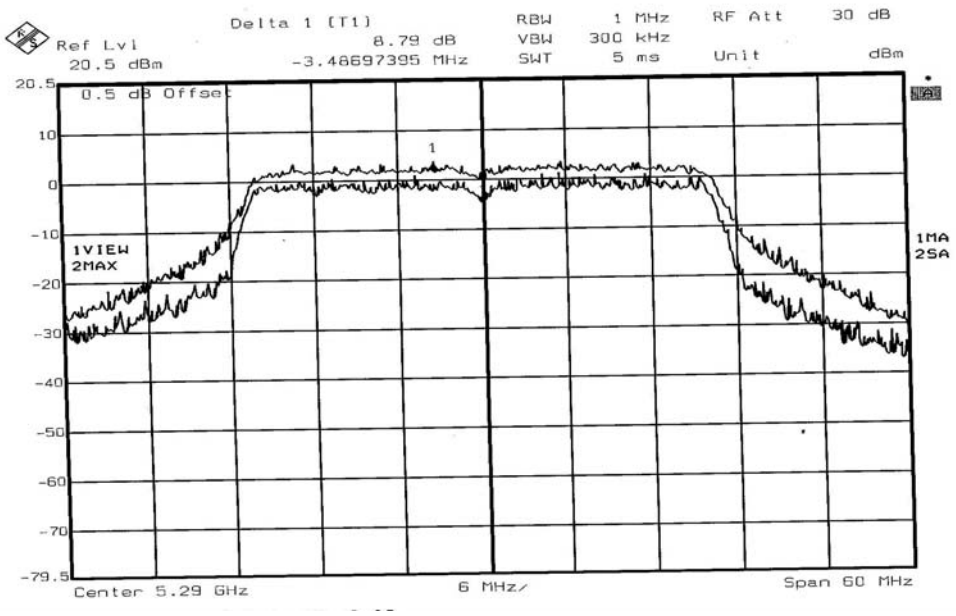
CH1


Delta 1 [T1]
8.28 dB
4.80961924 MHz
RBW 1 MHz
VBW 300 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
1VIEW
2MAX
1MA
2SA
Center 5.21 GHz
6 MHz/
Span 60 MHz

CH2


Delta 1 [T1]
7.18 dB
12.26452906 MHz
RBW 1 MHz
VBW 300 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
1VIEW
2MAX
1MA
2SA
Center 5.25 GHz
6 MHz/
Span 60 MHz

CH3


Delta 1 [T1]
8.79 dB
-3.48697395 MHz
RBW 1 MHz
VBW 300 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
1VIEW
2MAX
1MA
2SA
Center 5.29 GHz
6 MHz/
Span 60 MHz

## 5.5 PEAK POWER SPECTRAL DENSITY MEASUREMENT

### 5.5.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

| Frequency Band | Limit |
|---|---|
| 5.15 – 5.25GHz | 4dBm |
| 5.25 – 5.35GHz | 11dBm |
| 5.725 – 5.825GHz | 17dBm |

### 5.5.2 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|---|---|---|---|
| SPECTRUM ANALYZER | FSEK30 | 100049 | Aug. 12, 2005 |

**NOTE:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

### 5.5.3 TEST PROCEDURES

1. The transmitter output was connected to the spectrum analyzer.
2. Set RBW=1MHz, VBW=3MHz. The PPSD is the highest level found across the emission in any 1MHz band.

### 5.5.4 DEVIATION FROM TEST STANDARD

No deviation

### 5.5.5 TEST SETUP


### 5.5.6 EUT OPERATING CONDITIONS

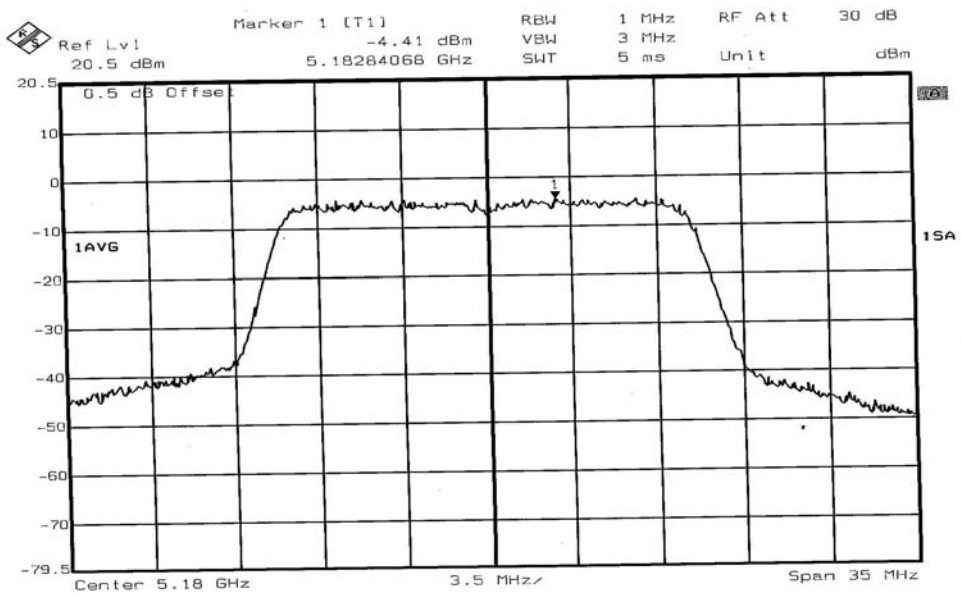
Same as 5.3.6

## 5.5.7 TEST RESULTS

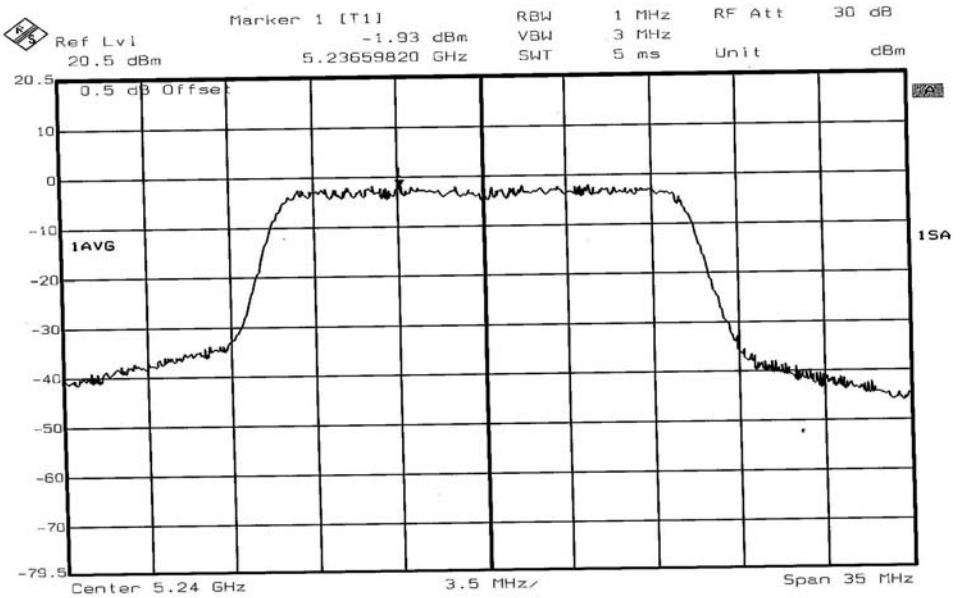
| | | | |
|---|---|---|---|
| **EUT** | Dual-Band Wireless A+G Router | **MODEL** | F6D3230-4 |
| **MODE** | Normal | **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz |
| **ENVIRONMENTAL CONDITIONS** | 24 deg. C, 64% RH, 991 hPa | **TESTED BY** | Leo Hung |

| CHANNEL | CHANNEL FREQUENCY (MHz ) | RF POWER LEVEL IN 1MHz BW (dBm) | MAXIMUM LIMIT (dBm) | PASS/FAIL |
|---|---|---|---|---|
| 1 | 5180 | -4.41 | 4 | PASS |
| 4 | 5240 | -1.93 | 4 | PASS |
| 5 | 5260 | -2.43 | 11 | PASS |
| 8 | 5320 | -1.65 | 11 | PASS |

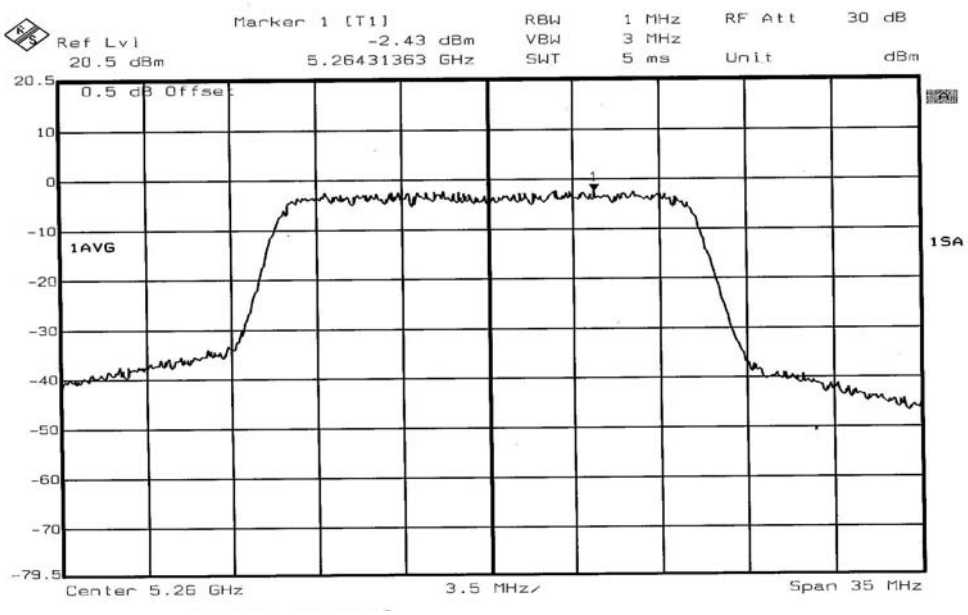
CH1


Marker 1 [T1]
-4.41 dBm
5.18284068 GHz
RBW 1 MHz
VBW 3 MHz
SWT 5 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
1AVG
1SA
Center 5.18 GHz
3.5 MHz/
Span 35 MHz

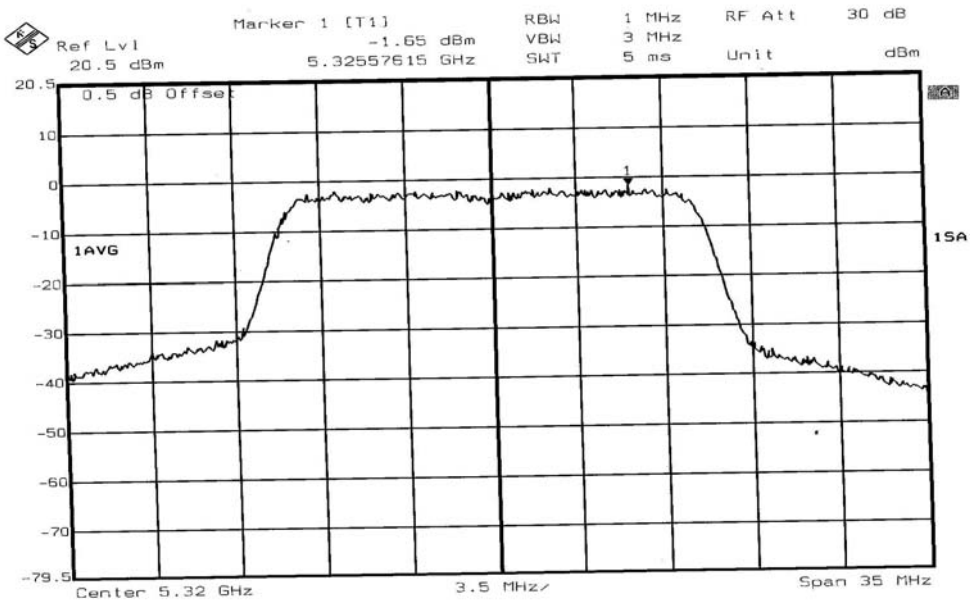
CH4


Marker 1 [T1]
-1.93 dBm
5.23659820 GHz
RBW 1 MHz
VBW 3 MHz
SWT 5 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
1AVG
1SA
Center 5.24 GHz
3.5 MHz/
Span 35 MHz

CH5


Marker 1 [T1]
-2.43 dBm
5.26431363 GHz
RBW 1 MHz
VBW 3 MHz
SWT 5 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
1AVG
1SA
Center 5.26 GHz
3.5 MHz/
Span 35 MHz

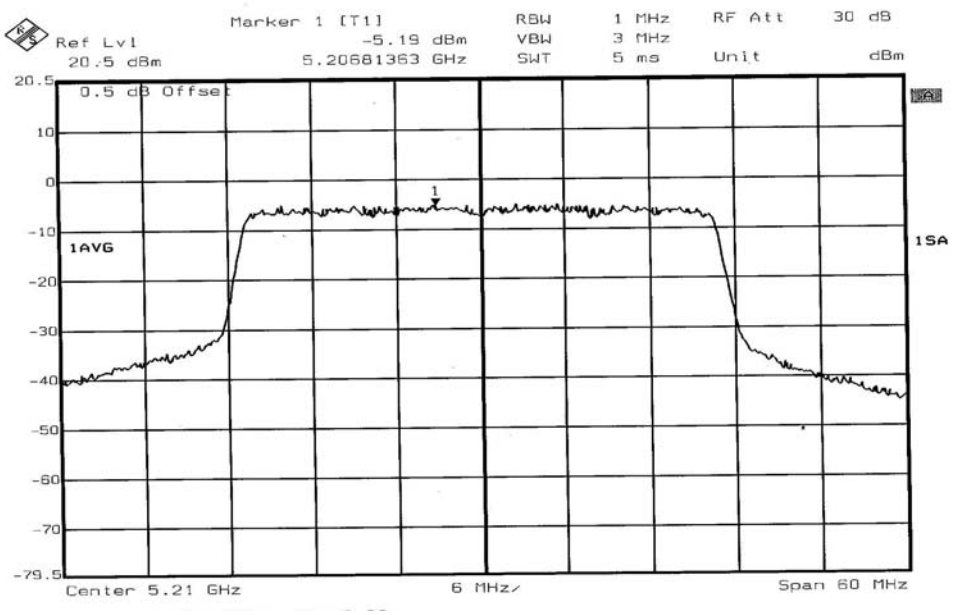
CH8


Marker 1 [T1]
-1.65 dBm
5.32557615 GHz
RBW 1 MHz
VBW 3 MHz
SWT 5 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
1AVG
1SA
Center 5.32 GHz
3.5 MHz/
Span 35 MHz

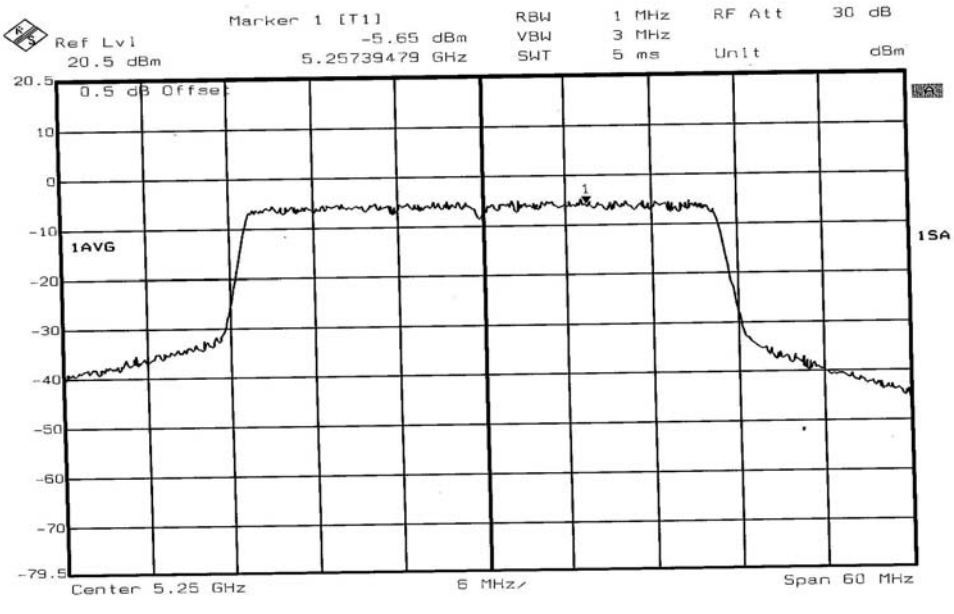
| | | | |
|---|---|---|---|
| **EUT** | Dual-Band Wireless A+G Router | **MODEL** | F6D3230-4 |
| **MODE** | Turbo | **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz |
| **ENVIRONMENTAL CONDITIONS** | 24 deg. C, 64% RH, 991 hPa | **TESTED BY** | Leo Hung |

| CHANNEL | CHANNEL FREQUENCY (MHz ) | RF POWER LEVEL IN 1 MHz BW (dBm) | MAXIMUM LIMIT (dBm) | PASS/FAIL |
|---|---|---|---|---|
| 1 | 5210 | -5.19 | 4 | PASS |
| 2 | 5250 | -5.65 | 4 | PASS |
| 3 | 5290 | -5.57 | 11 | PASS |

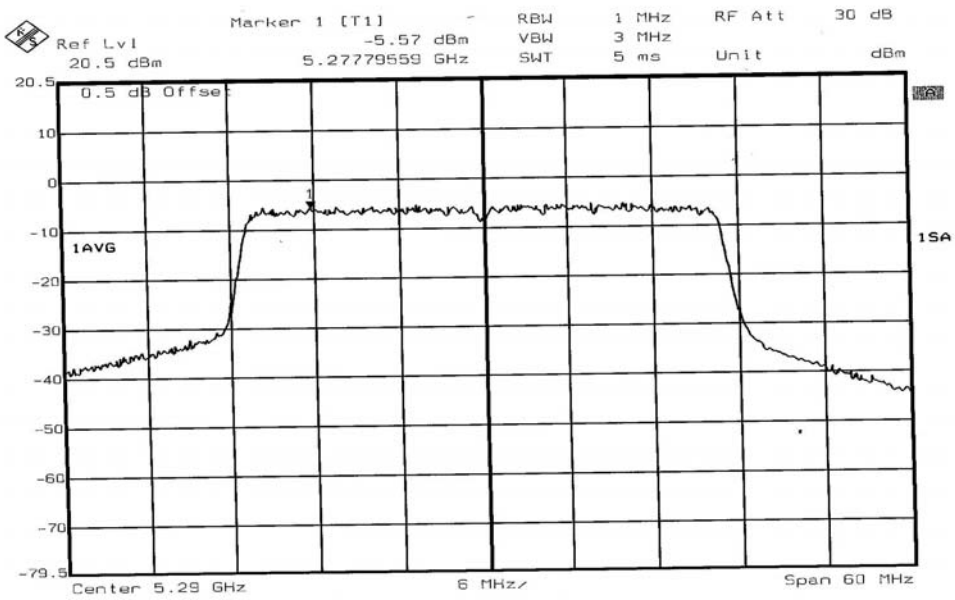
CH1


Marker 1 [T1]
-5.19 dBm
5.20681363 GHz
RBW 1 MHz
VBW 3 MHz
SWT 5 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
1AVG
1SA
Center 5.21 GHz
6 MHz/
Span 60 MHz

CH2


Marker 1 [T1]
-5.65 dBm
5.25739479 GHz
RBW 1 MHz
VBW 3 MHz
SWT 5 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
1AVG
1SA
Center 5.25 GHz
6 MHz/
Span 60 MHz

CH3


Marker 1 [T1]
-5.57 dBm
5.27779559 GHz
RBW 1 MHz
VBW 3 MHz
SWT 5 ms
RF Att 30 dB
Unit dBm
Ref Lvl
20.5 dBm
0.5 dB Offset
1AVG
1SA
20.5
10
0
-10
-20
-30
-40
-50
-60
-70
-79.5
Center 5.29 GHz
6 MHz/
Span 60 MHz