

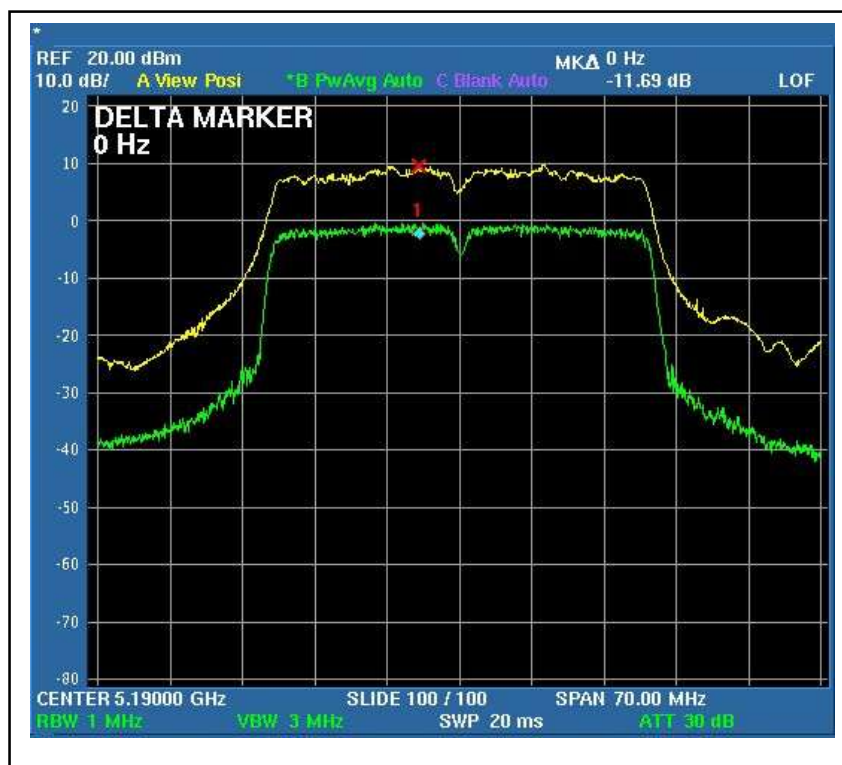


**DRAFT 802.11n (40MHz) OFDM MODULATION:**

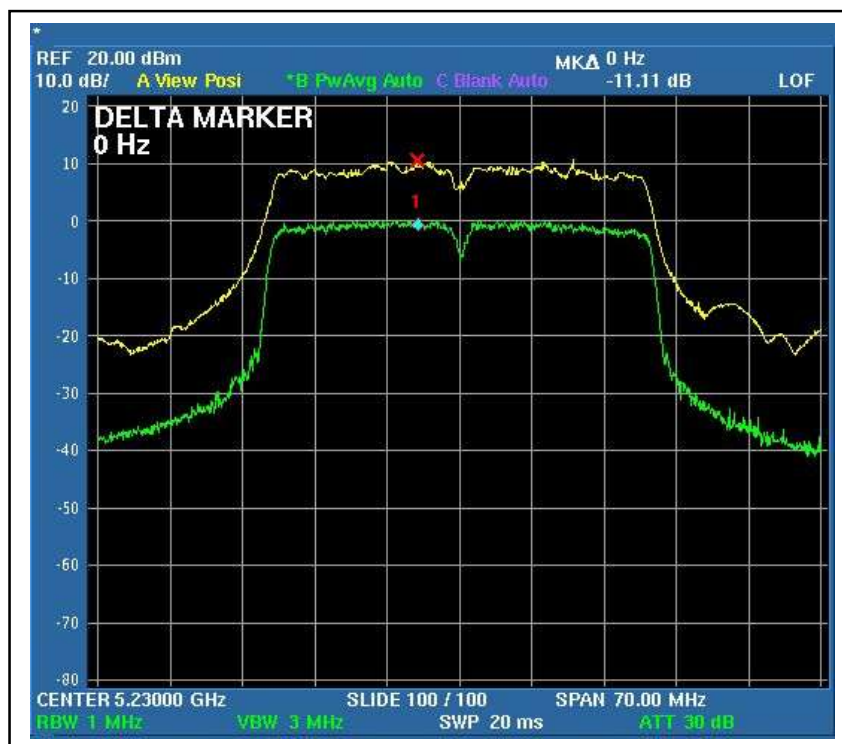
|                             |               |                                 |                        |
|-----------------------------|---------------|---------------------------------|------------------------|
| <b>MODULATION TYPE</b>      | BPSK          | <b>TRANSFER RATE</b>            | 27Mbps                 |
| <b>INPUT POWER (SYSTEM)</b> | 120Vac, 60 Hz | <b>ENVIRONMENTAL CONDITIONS</b> | 20deg.C, 60%RH, 971hPa |
| <b>TESTED BY</b>            | Rex Huang     |                                 |                        |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER EXCURSION (dB) |          | PEAK to AVERAGE EXCURSION LIMIT (dB) | PASS/FAIL |
|---------|-------------------------|---------------------------|----------|--------------------------------------|-----------|
|         |                         | Chain (0)                 | Chain(1) |                                      |           |
| 1       | 5190                    | 11.69                     | 11.3     | 13                                   | PASS      |
| 2       | 5230                    | 11.11                     | 11.42    | 13                                   | PASS      |
| 3       | 5270                    | 12.41                     | 11.66    | 13                                   | PASS      |
| 4       | 5310                    | 10.76                     | 11.36    | 13                                   | PASS      |
| 5       | 5510                    | 11.57                     | 11.28    | 13                                   | PASS      |
| 7       | 5590                    | 11.47                     | 10.89    | 13                                   | PASS      |
| 9       | 5670                    | 12.09                     | 11.2     | 13                                   | PASS      |
| 10      | 5755                    | 10.66                     | 9.58     | 13                                   | PASS      |
| 12      | 5795                    | 10.82                     | 10.55    | 13                                   | PASS      |

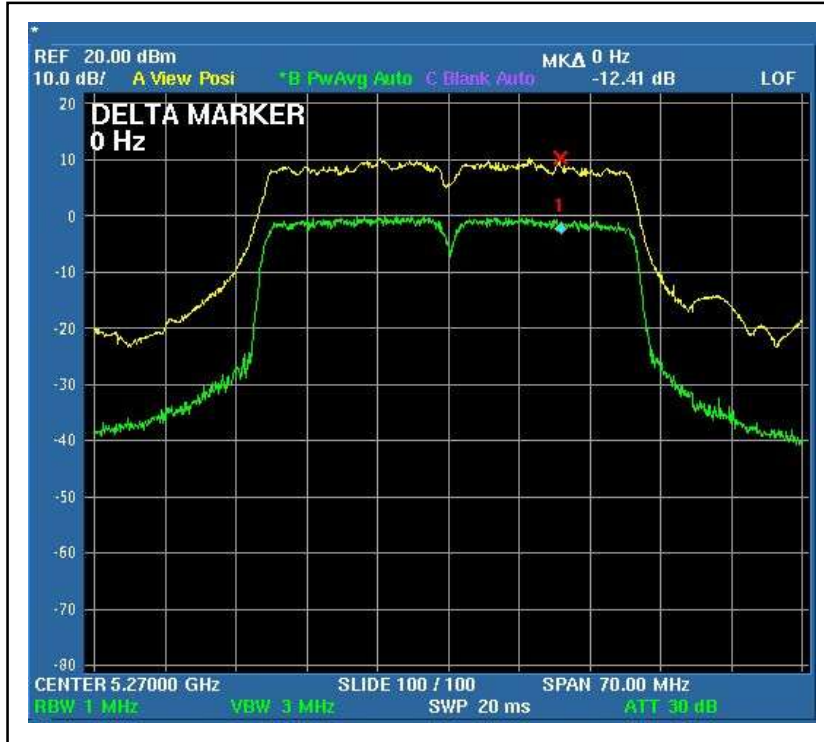
For Chain (0) : CH1



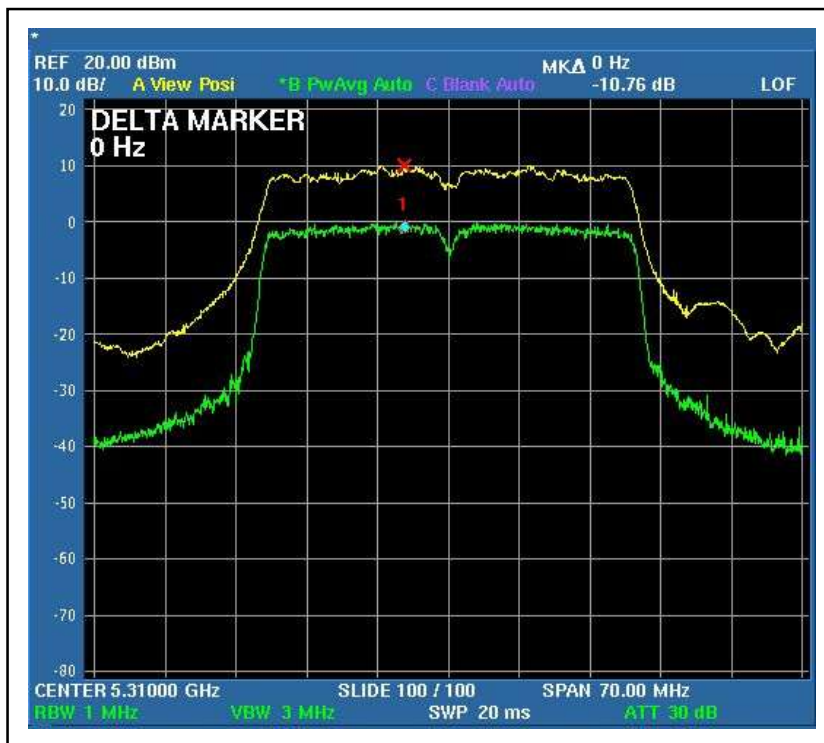
CH2



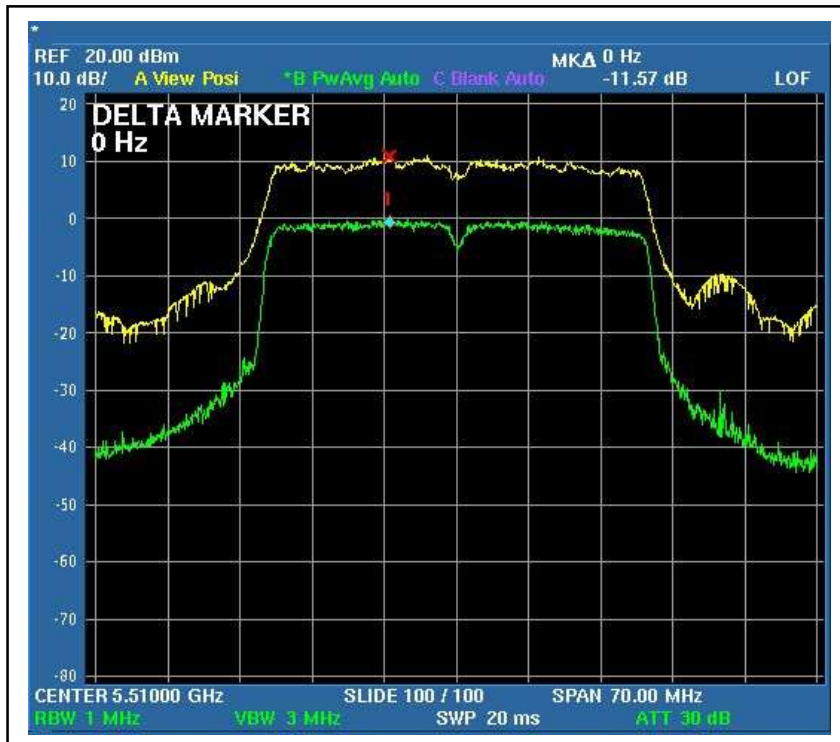
CH3



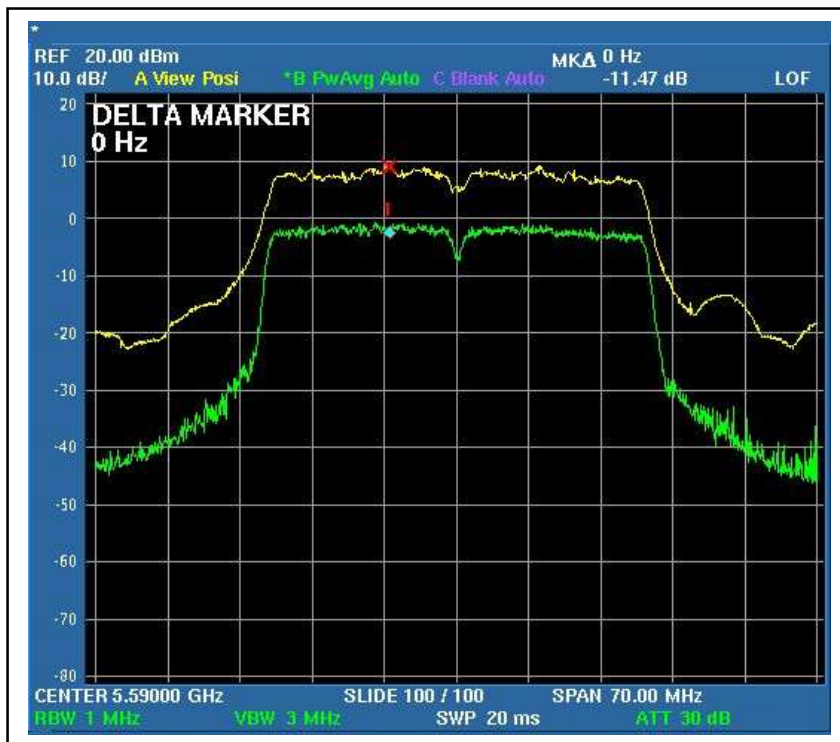
CH4



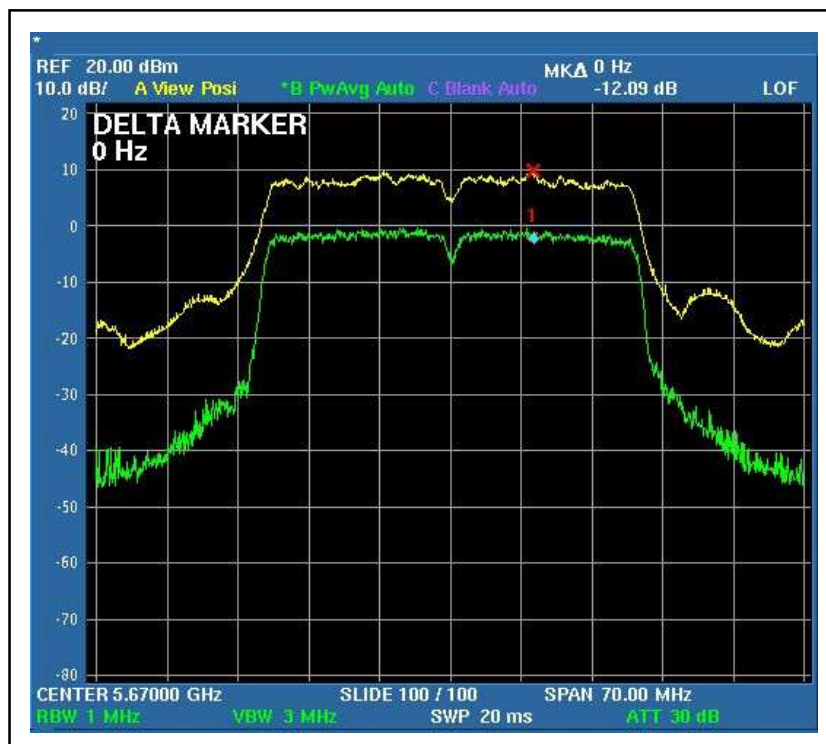
CH5



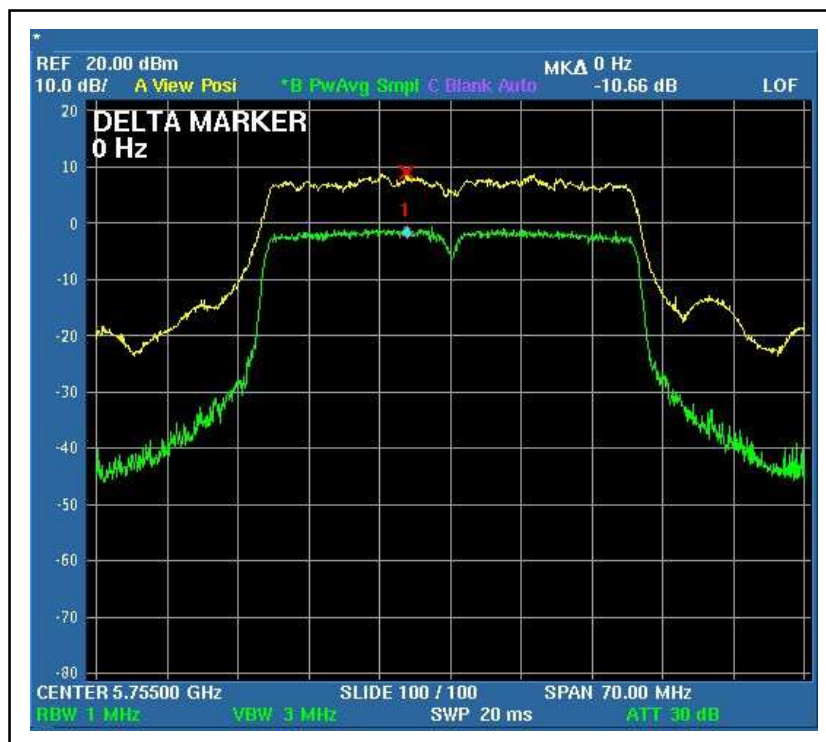
CH7



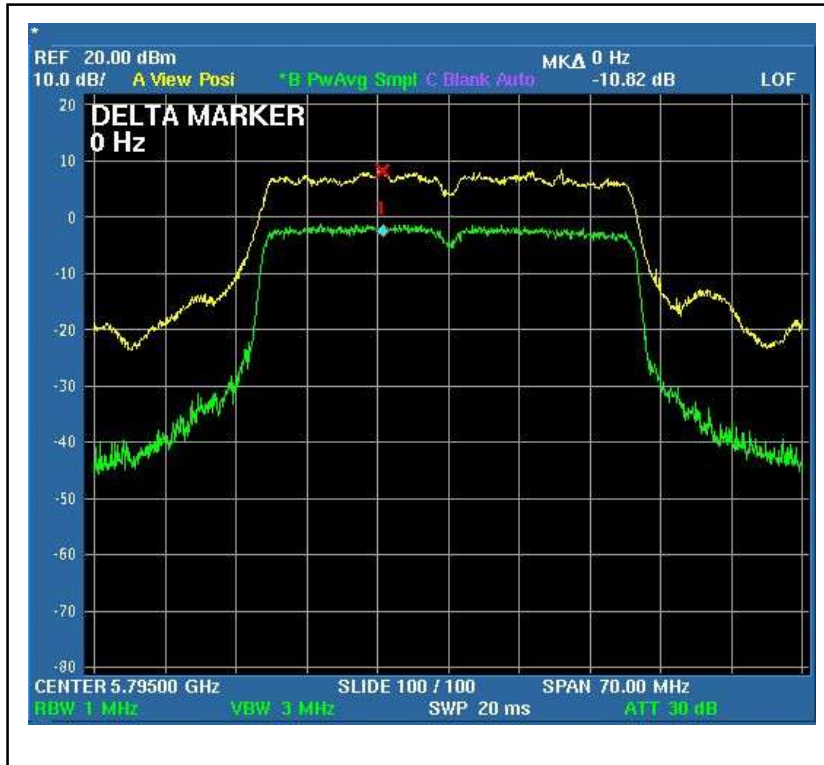
CH9



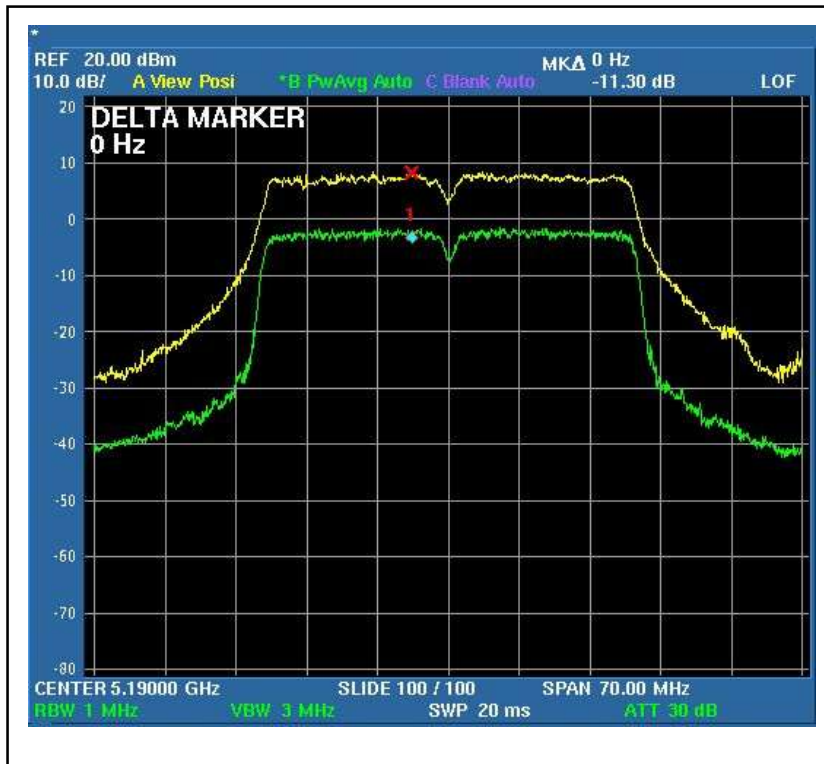
CH10



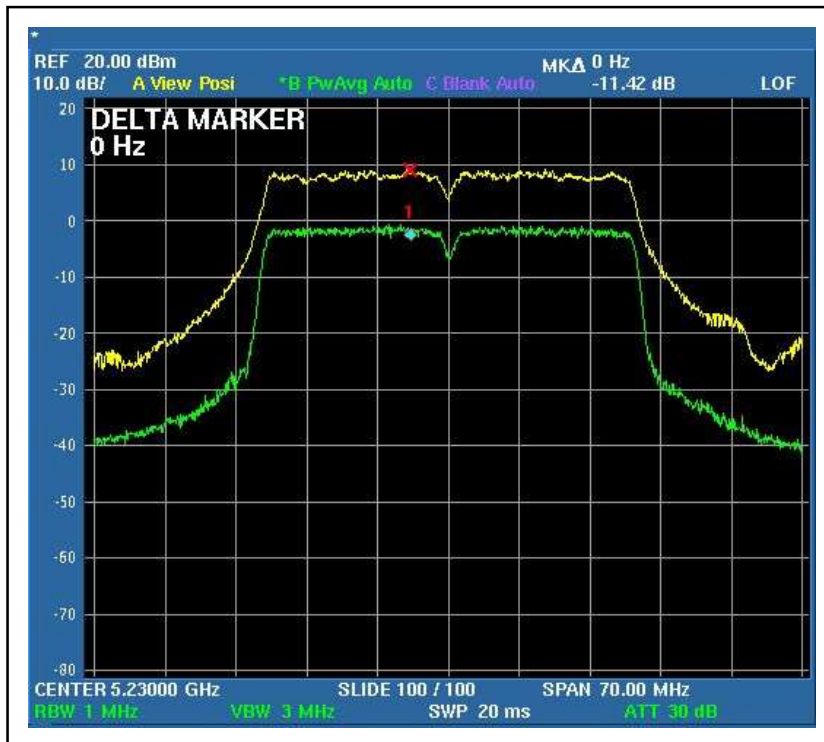
CH12



For Chain (1) : CH1

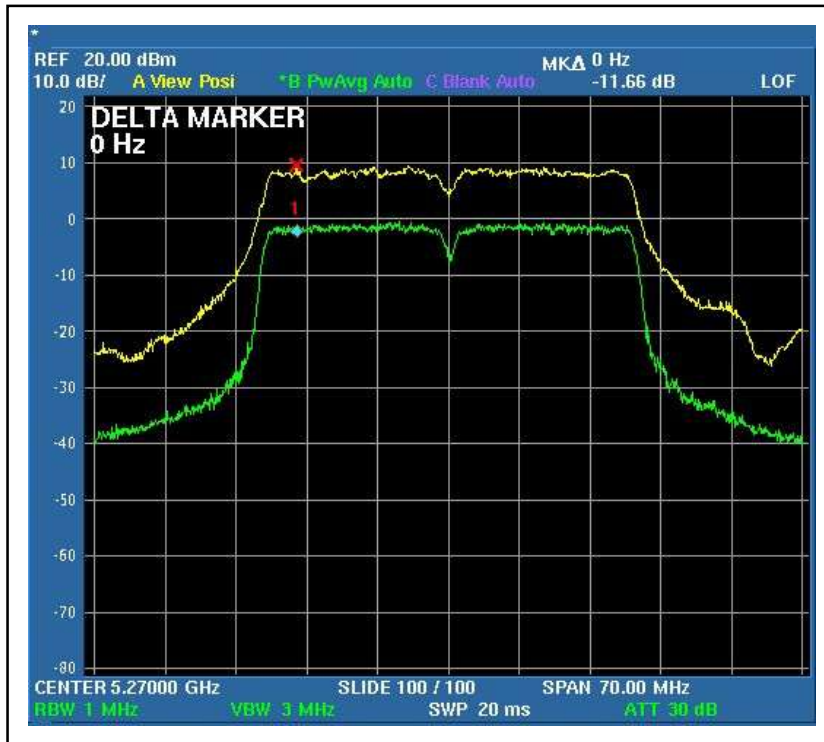


CH2

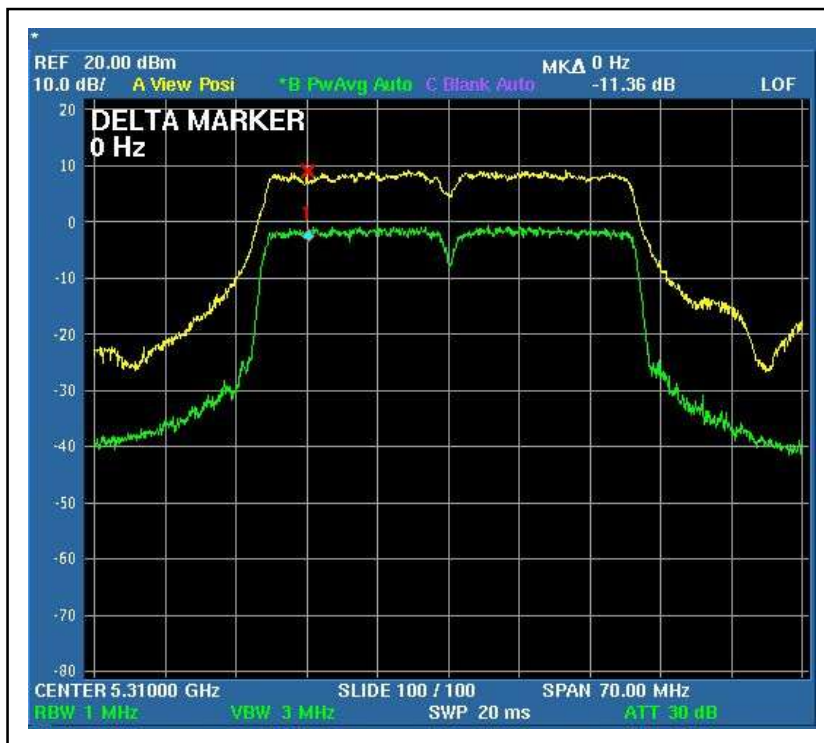




CH3

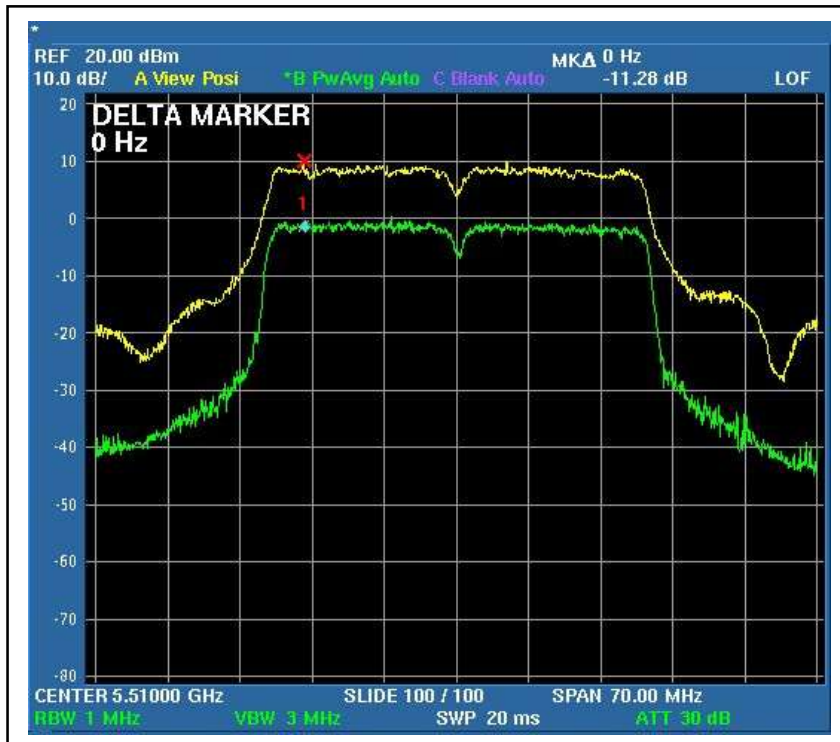


CH4

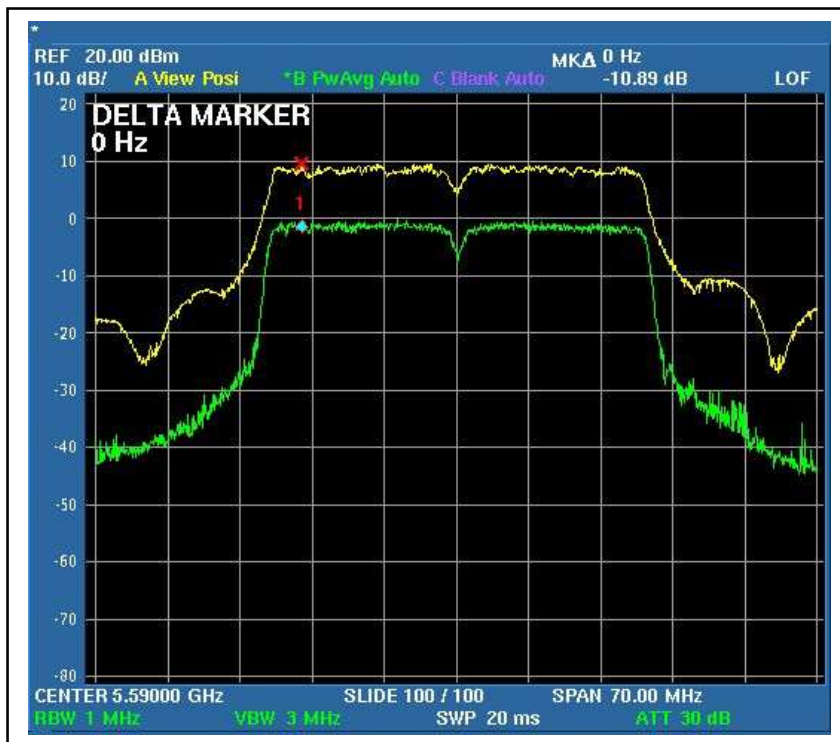




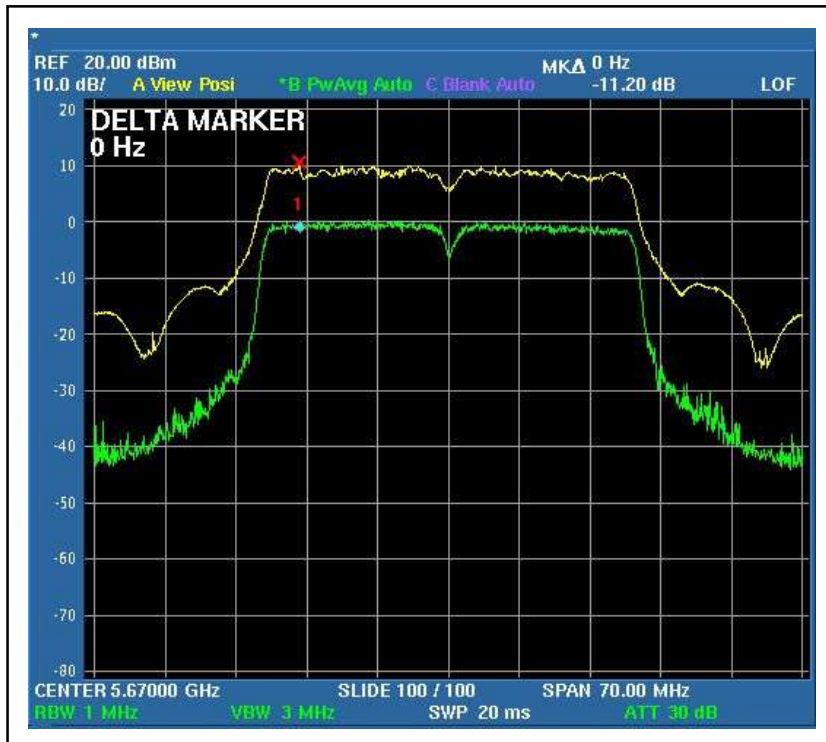
CH5



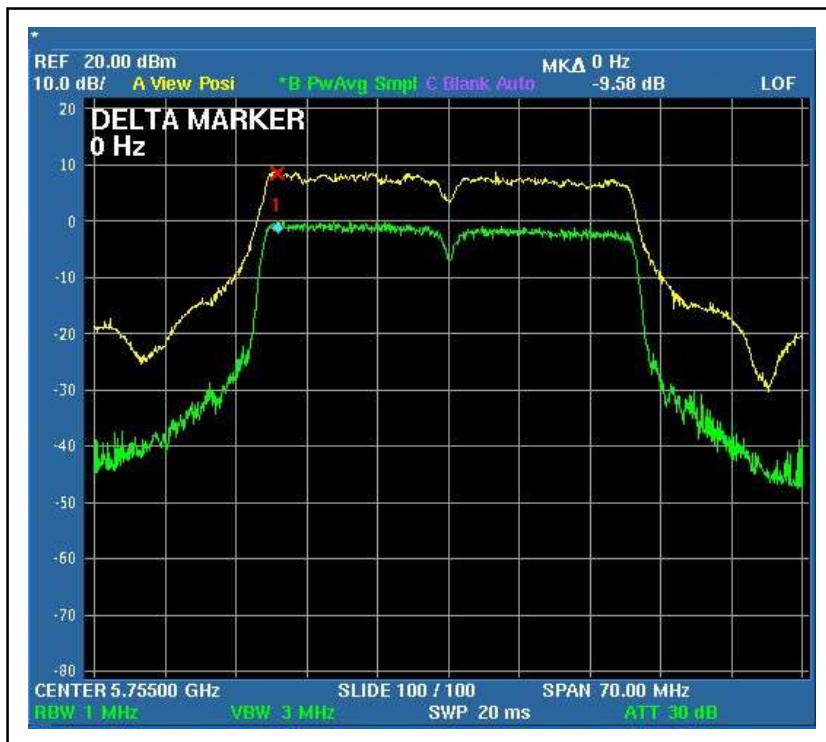
CH7



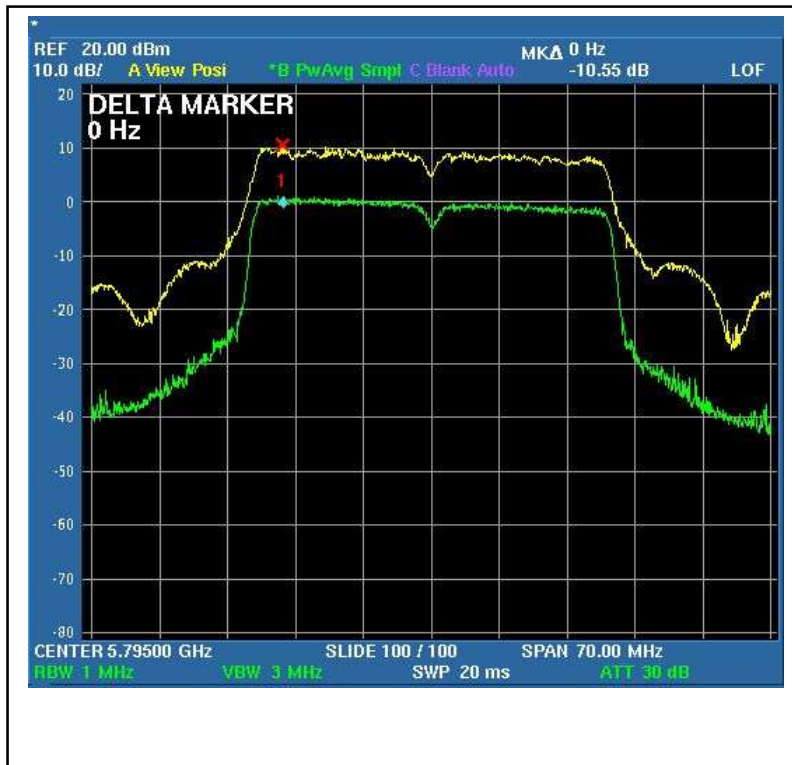
CH9



CH10



CH12



## 4.5 PEAK POWER SPECTRAL DENSITY MEASUREMENT

### 4.5.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

| Frequency Band   | Limit |
|------------------|-------|
| 5.15 ~ 5.25GHz   | 4dBm  |
| 5.25 ~ 5.35GHz   | 11dBm |
| 5.47 – 5.725GHz  | 11dBm |
| 5.725 ~ 5.825GHz | 17dBm |

### 4.5.2 TEST INSTRUMENTS

| Description & Manufacturer  | Model No. | Serial No. | Calibrated Until |
|-----------------------------|-----------|------------|------------------|
| ADVANTEST SPECTRUM ANALYZER | U3772     | 160100280  | April 10, 2008   |

**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.

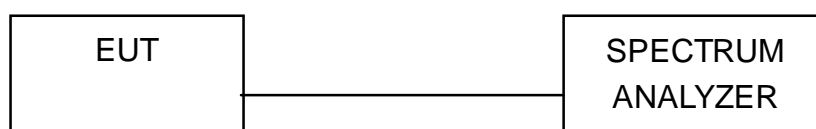
#### 4.5.3 TEST PROCEDURES

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.

#### 4.5.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.5.5 TEST SETUP



#### 4.5.6 EUT OPERATING CONDITIONS

Same as 4.3.6



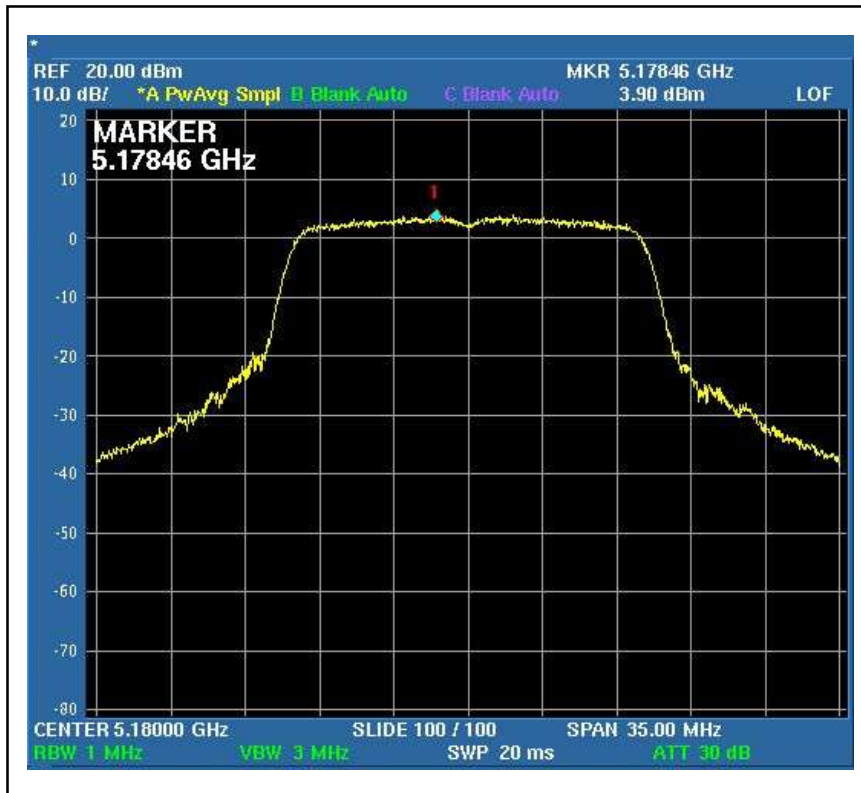
#### 4.5.7 TEST RESULTS

##### 802.11a OFDM modulation

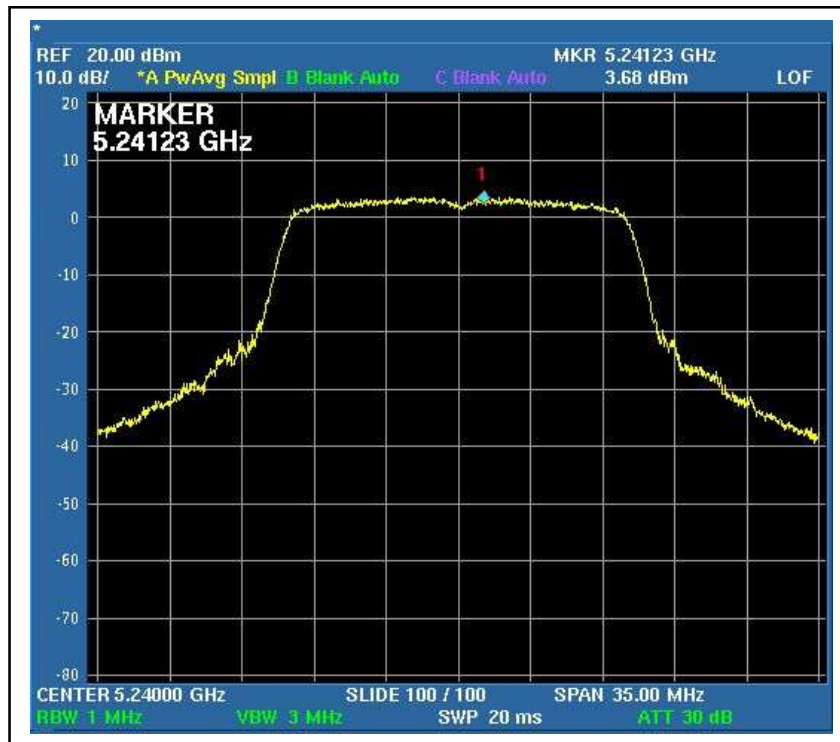
|                             |               |                                 |                        |
|-----------------------------|---------------|---------------------------------|------------------------|
| <b>MODULATION TYPE</b>      | BPSK          | <b>TRANSFER RATE</b>            | 6Mbps                  |
| <b>INPUT POWER (SYSTEM)</b> | 120Vac, 60 Hz | <b>ENVIRONMENTAL CONDITIONS</b> | 20deg.C, 60%RH, 971hPa |
| <b>TESTED BY</b>            | Rex Huang     |                                 |                        |

| <b>CHANNEL</b> | <b>CHANNEL FREQUENCY (MHz )</b> | <b>RF POWER LEVEL IN 1MHz BW (dBm)</b> | <b>MAXIMUM LIMIT (dBm)</b> | <b>PASS/FAIL</b> |
|----------------|---------------------------------|--|----------------------------|------------------|
| 1              | 5180                            | 3.90                                   | 4                          | PASS             |
| 4              | 5240                            | 3.68                                   | 4                          | PASS             |
| 5              | 5260                            | 5.06                                   | 11                         | PASS             |
| 8              | 5320                            | 5.07                                   | 11                         | PASS             |
| 9              | 5500                            | 5.71                                   | 11                         | PASS             |
| 14             | 5600                            | 4.22                                   | 11                         | PASS             |
| 19             | 5700                            | 5.01                                   | 11                         | PASS             |
| 20             | 5745                            | 4.69                                   | 17                         | PASS             |
| 22             | 5785                            | 3.64                                   | 17                         | PASS             |
| 23             | 5805                            | 3.61                                   | 17                         | PASS             |

CH1



CH4

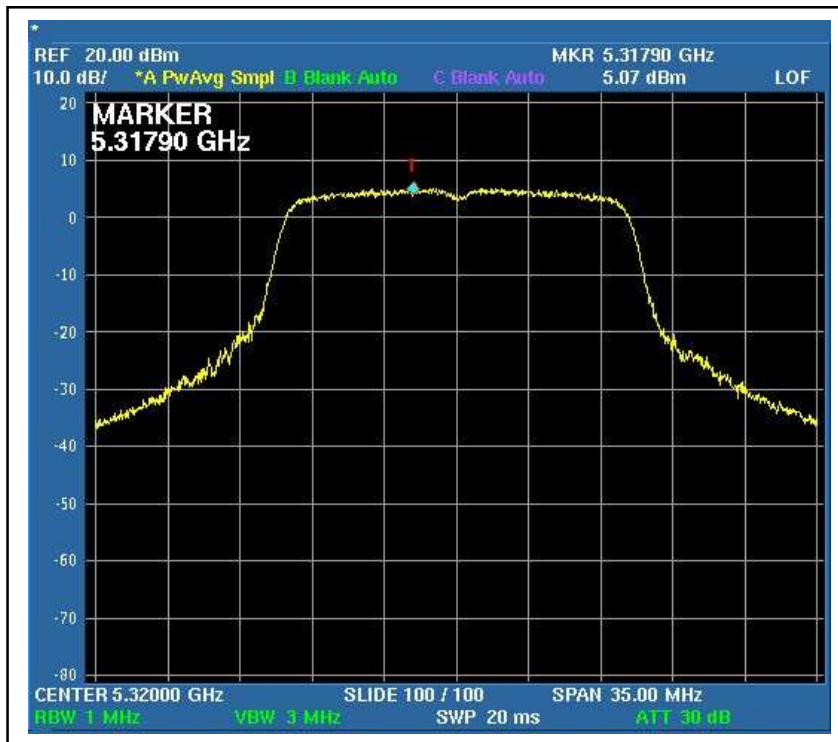




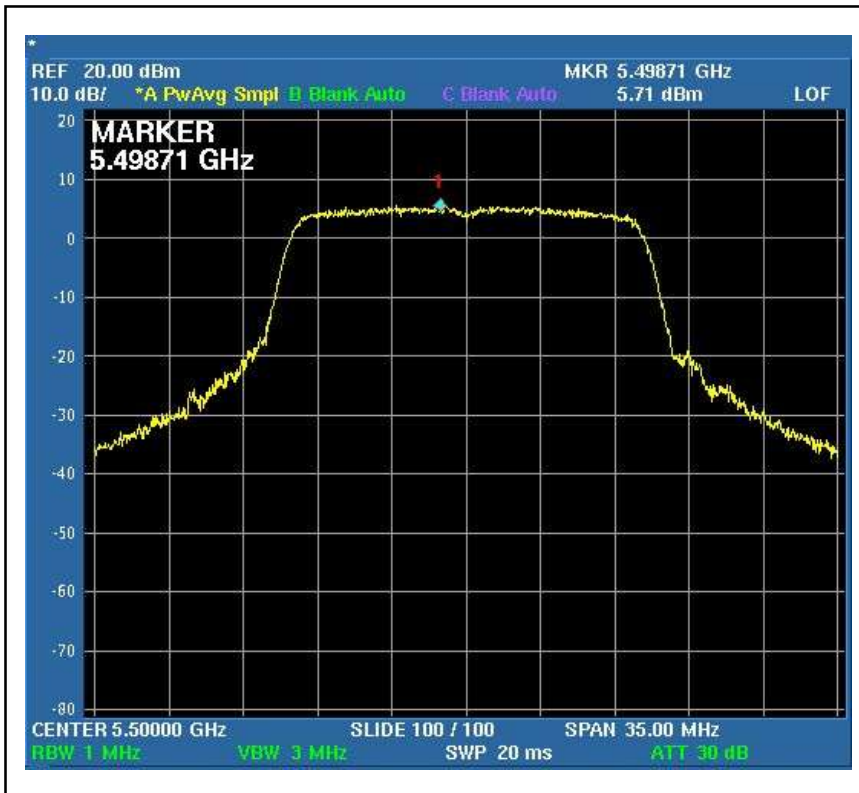
CH5



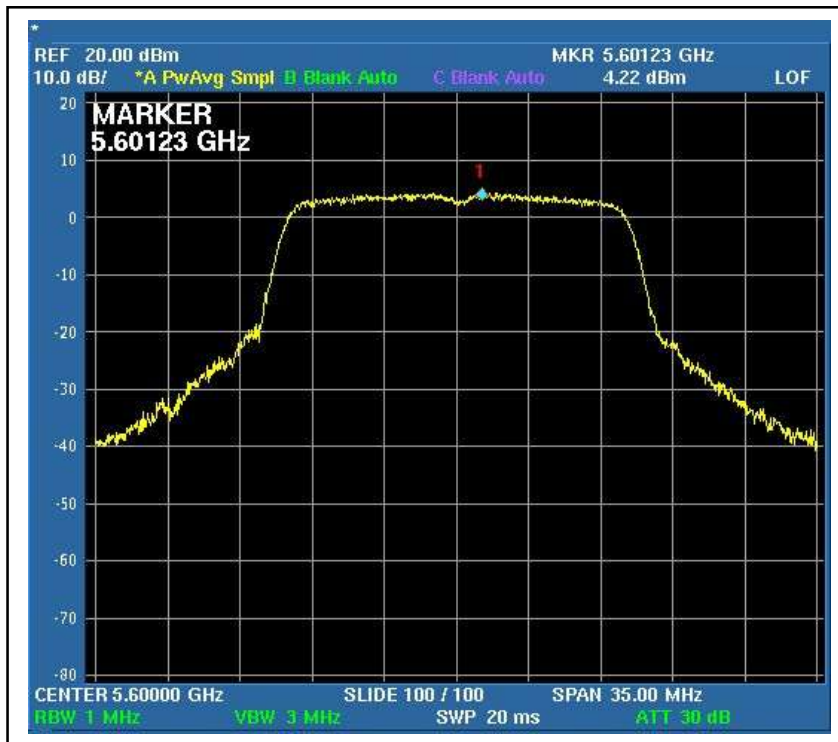
CH8



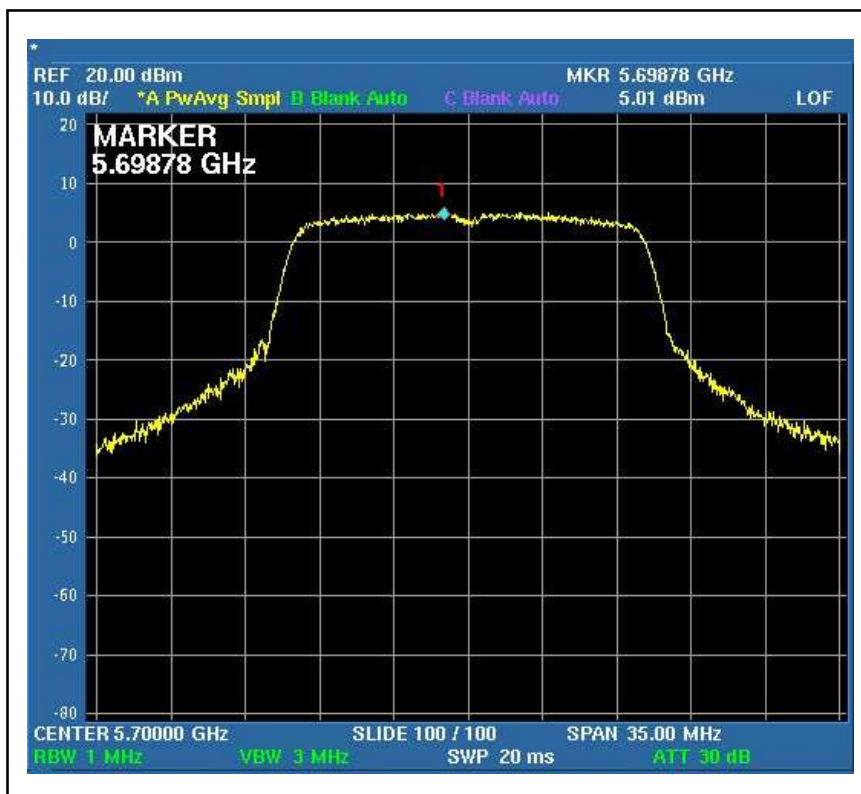
CH9



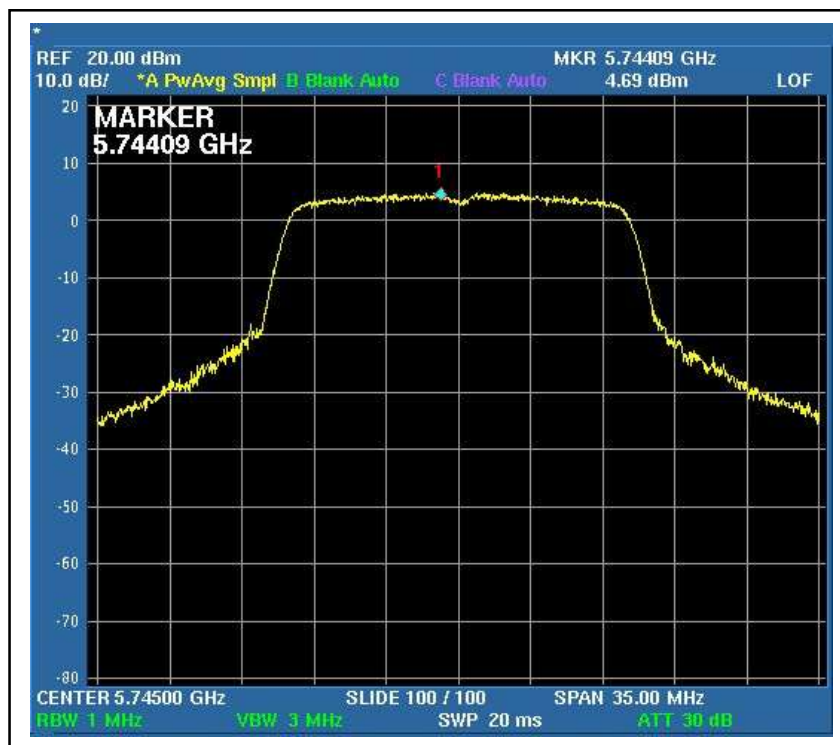
CH14



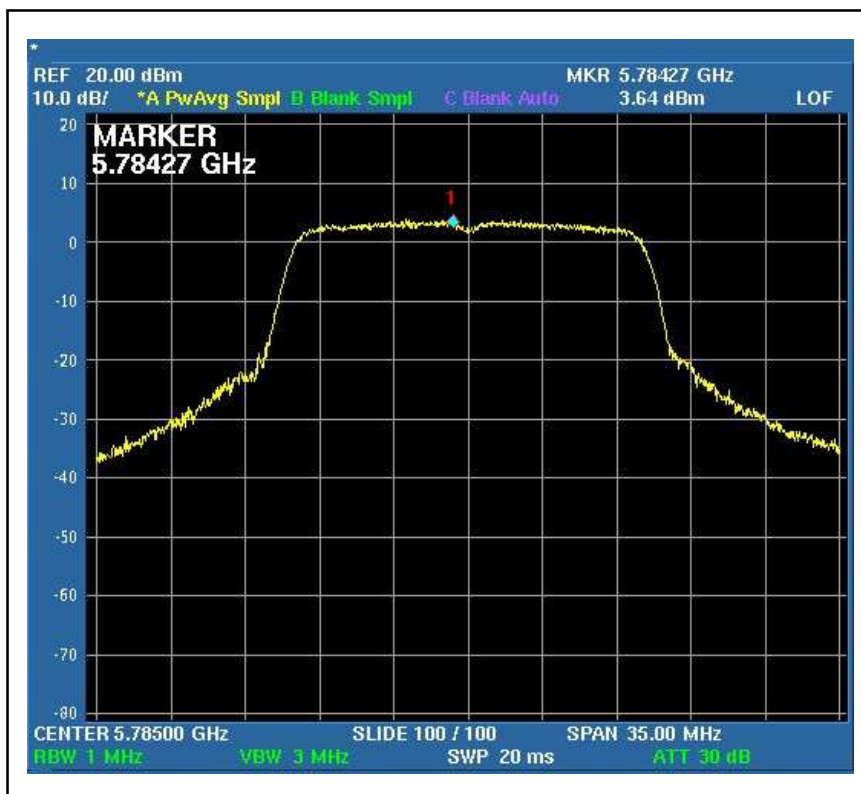
CH19



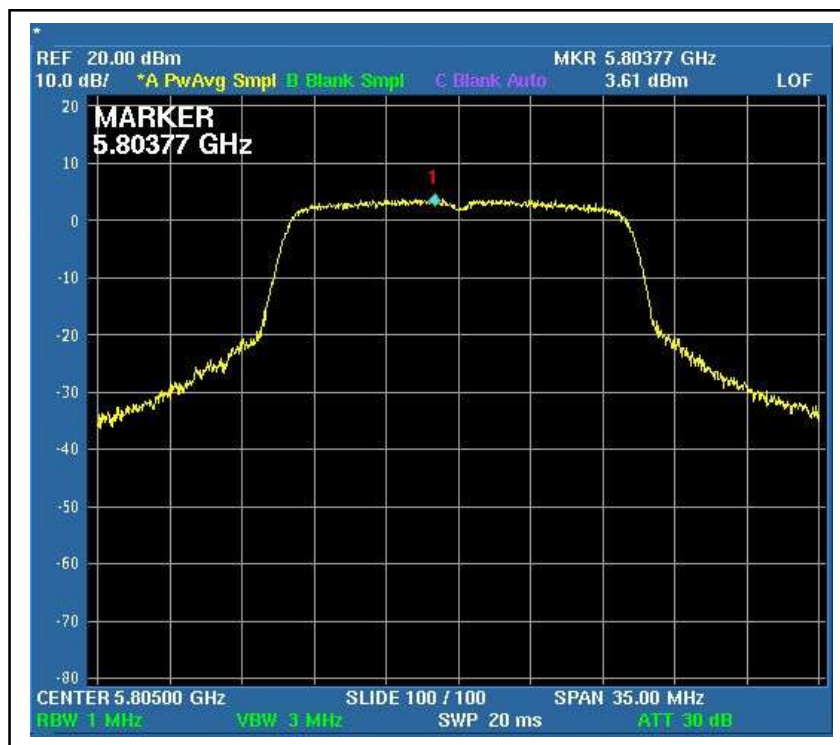
CH20



CH22



CH23



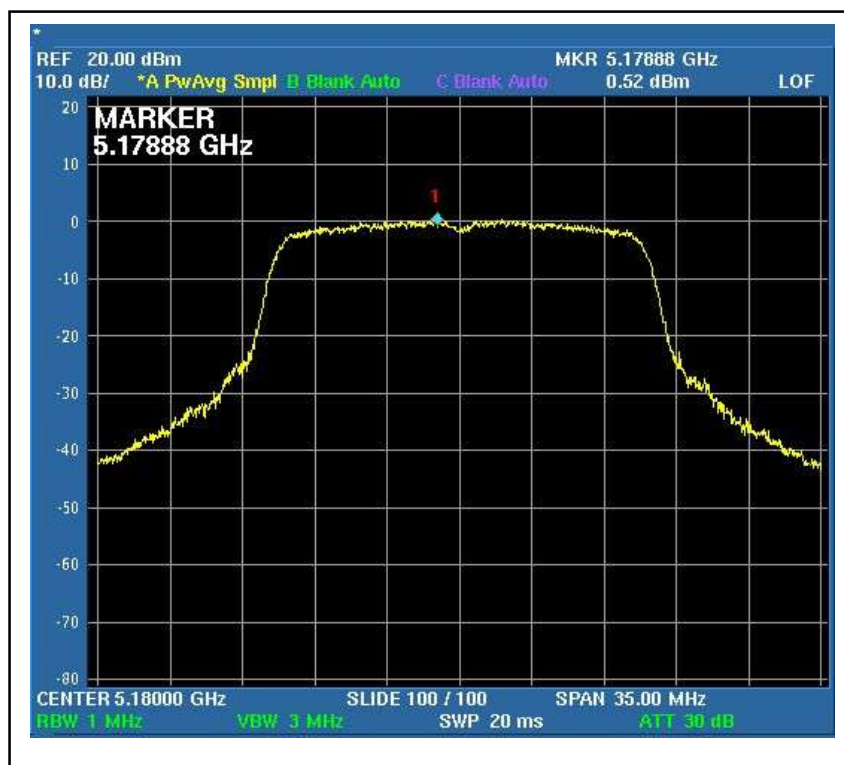


**DRAFT 802.11n (20MHz) OFDM MODULATION:**

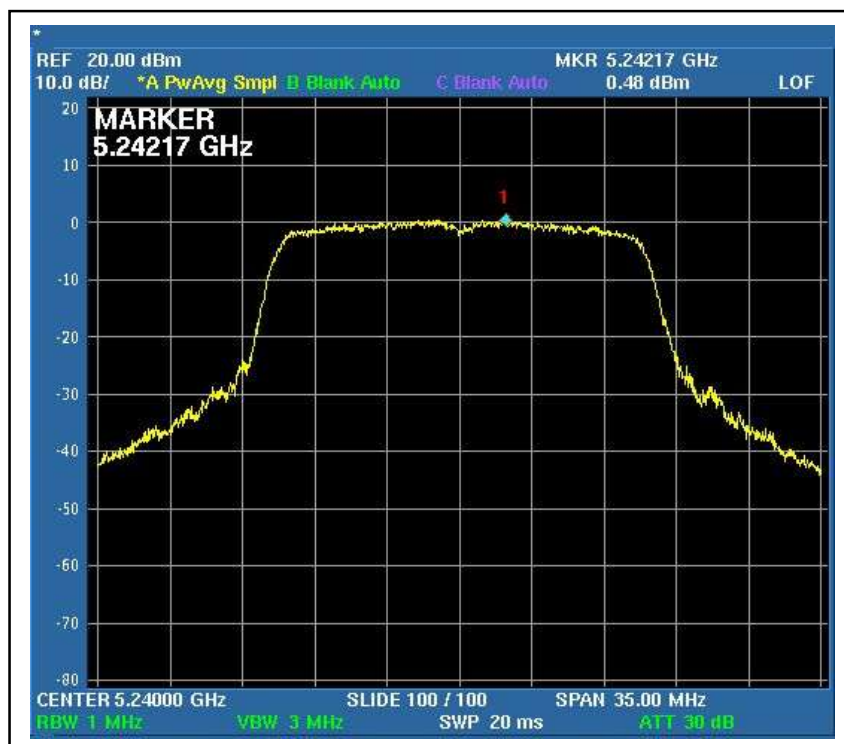
|                             |               |                                 |                        |
|-----------------------------|---------------|---------------------------------|------------------------|
| <b>MODULATION TYPE</b>      | BPSK          | <b>TRANSFER RATE</b>            | 13Mbps                 |
| <b>INPUT POWER (SYSTEM)</b> | 120Vac, 60 Hz | <b>ENVIRONMENTAL CONDITIONS</b> | 20deg.C, 60%RH, 971hPa |
| <b>TESTED BY</b>            | Rex Huang     |                                 |                        |

| CHANNEL | CHANNEL FREQUENCY (MHz) | RF POWER LEVEL IN 1MHz BW (dBm) |          | TOTAL OUTPUT POWER DENSITY (dBm) | MAXIMUM LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|---------------------------------|----------|----------------------------------|---------------------|-----------|
|         |                         | Chain (0)                       | Chain(1) |                                  |                     |           |
| 1       | 5180                    | 0.52                            | 0.35     | 3.446                            | 4                   | PASS      |
| 4       | 5240                    | 0.48                            | 0.51     | 3.505                            | 4                   | PASS      |
| 5       | 5260                    | 3.33                            | 3.47     | 6.411                            | 11                  | PASS      |
| 8       | 5320                    | 3.35                            | 3.19     | 6.281                            | 11                  | PASS      |
| 9       | 5500                    | 3.14                            | 3.43     | 6.298                            | 11                  | PASS      |
| 14      | 5600                    | 3.38                            | 3.51     | 6.456                            | 11                  | PASS      |
| 19      | 5700                    | 3.40                            | 3.19     | 6.307                            | 11                  | PASS      |
| 20      | 5745                    | 3.38                            | 3.54     | 6.471                            | 17                  | PASS      |
| 22      | 5785                    | 2.43                            | 4.61     | 6.666                            | 17                  | PASS      |
| 23      | 5805                    | 2.51                            | 4.71     | 6.758                            | 17                  | PASS      |

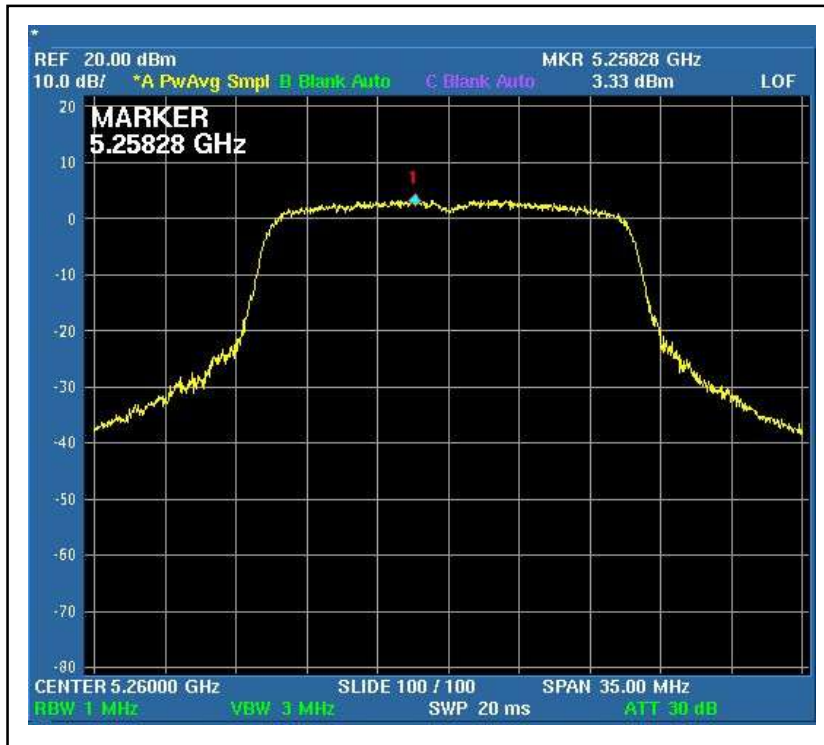
For Chain (0) : CH1



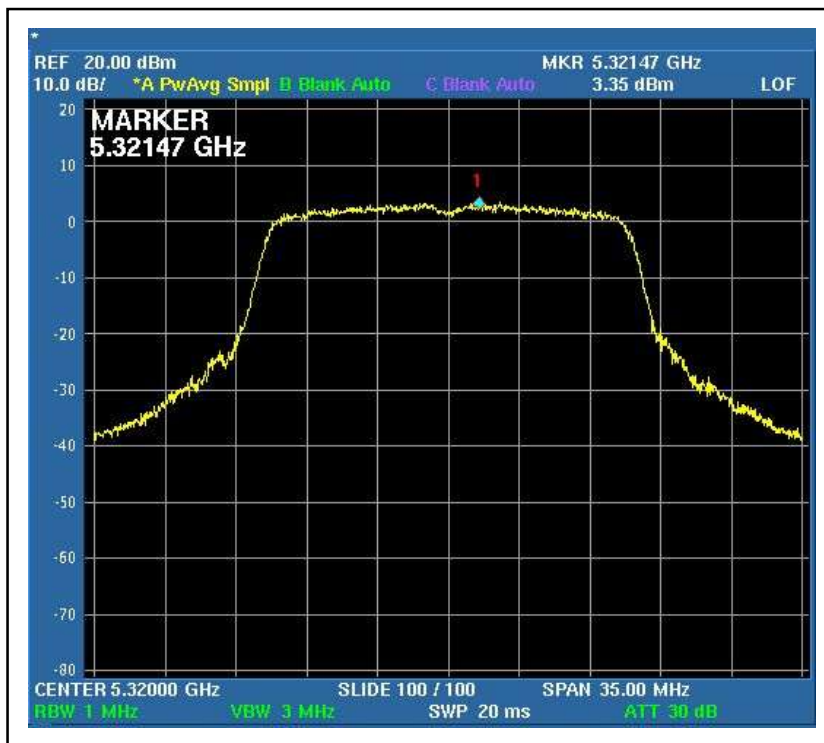
CH4



CH5

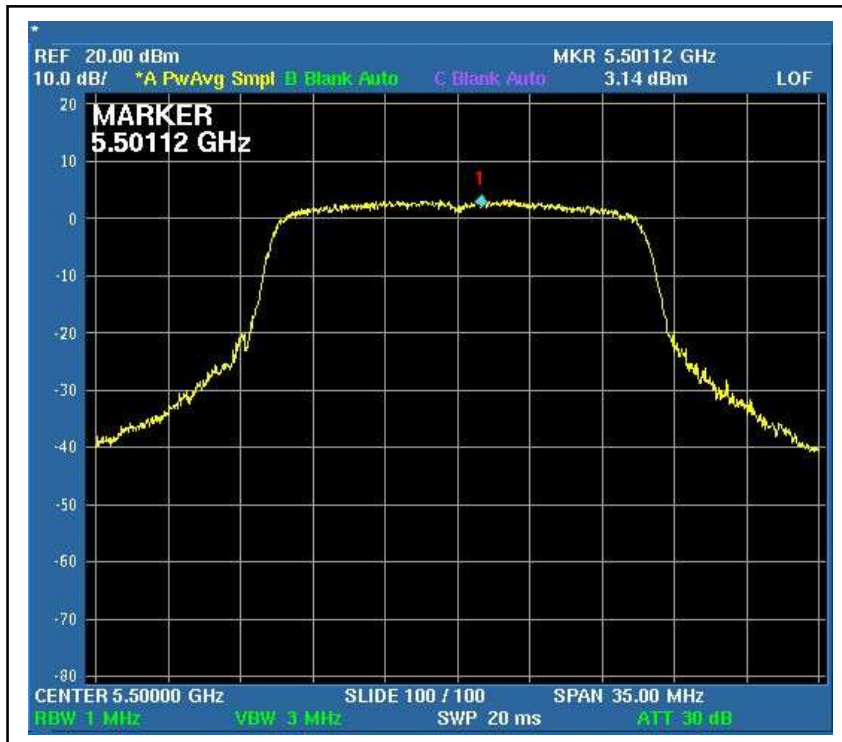


CH8

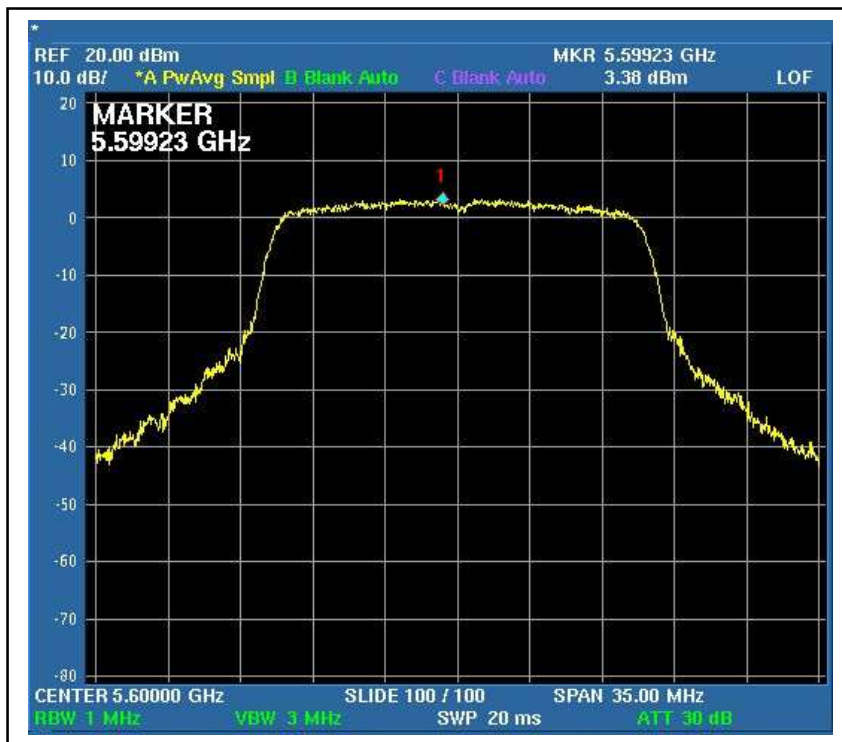




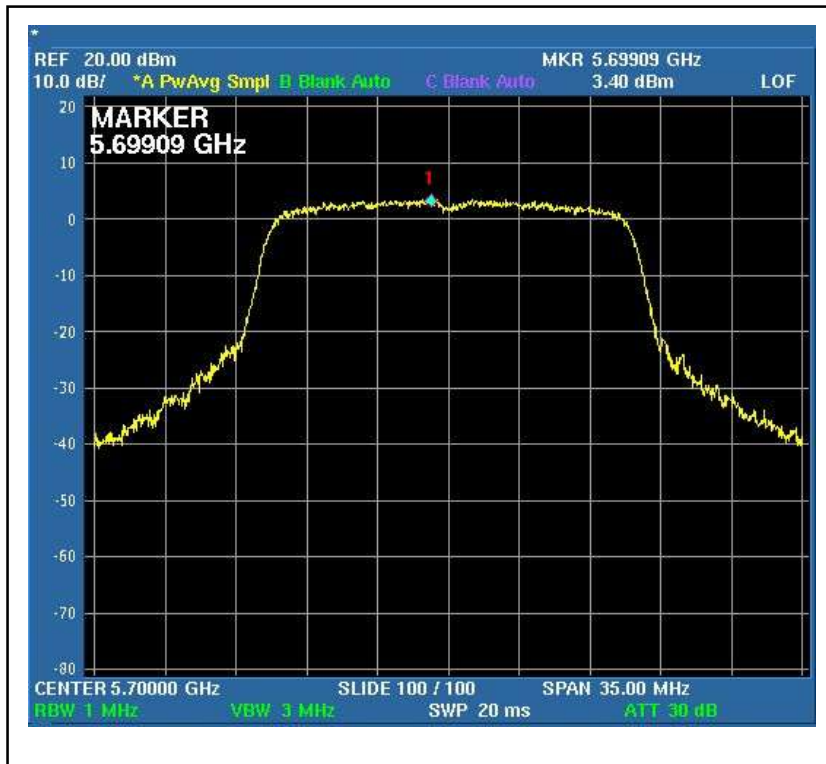
CH9



CH14



CH19



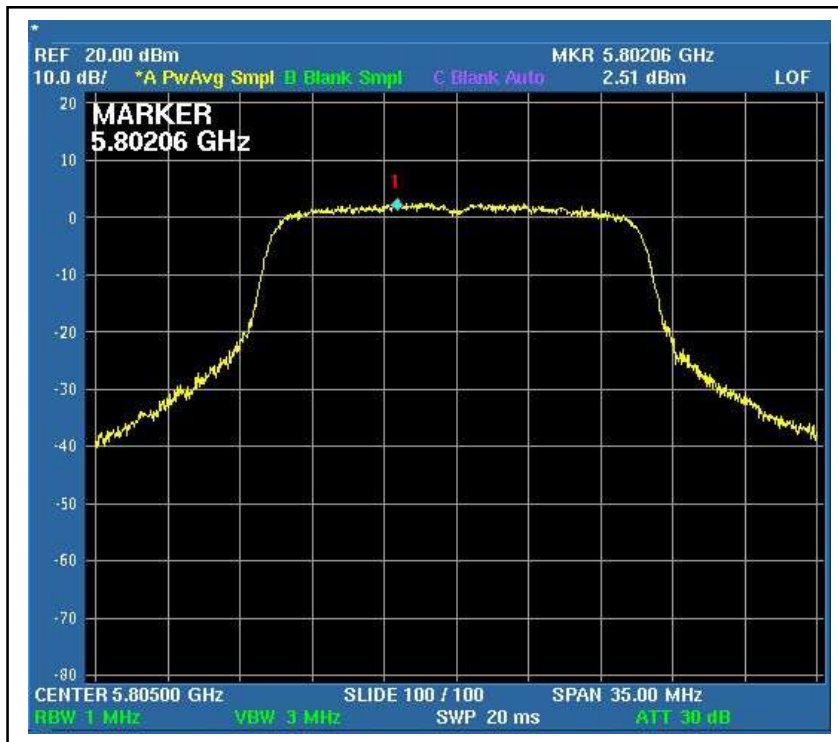
CH20



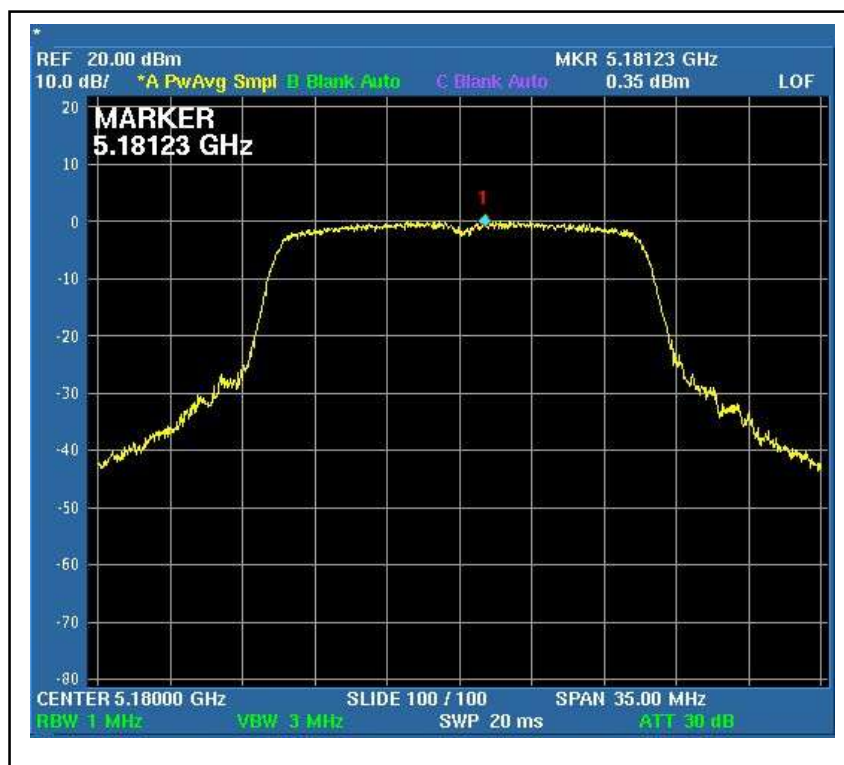
CH22



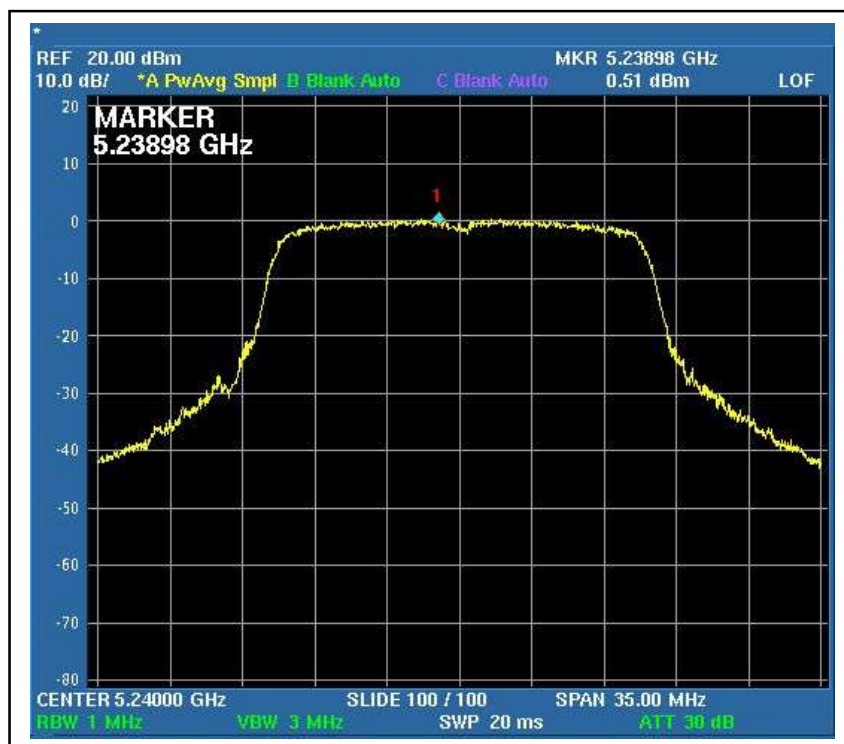
CH23



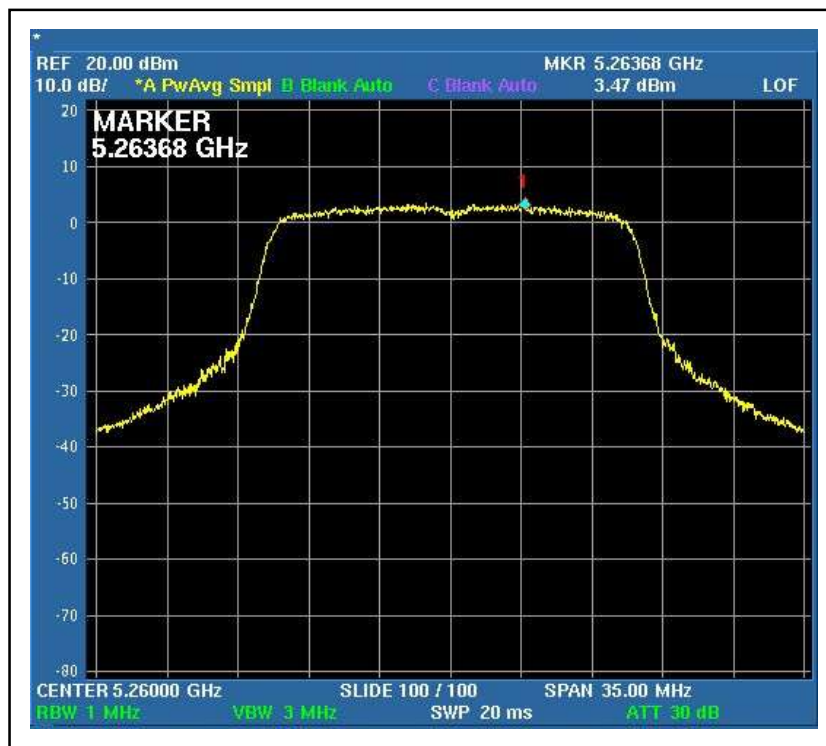
For Chain (1) : CH1



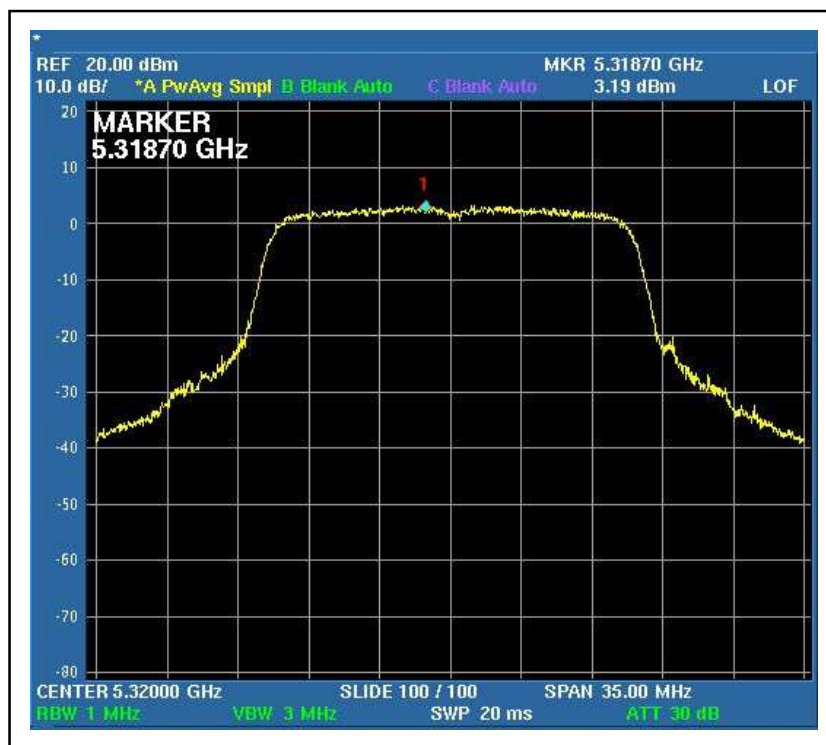
CH4



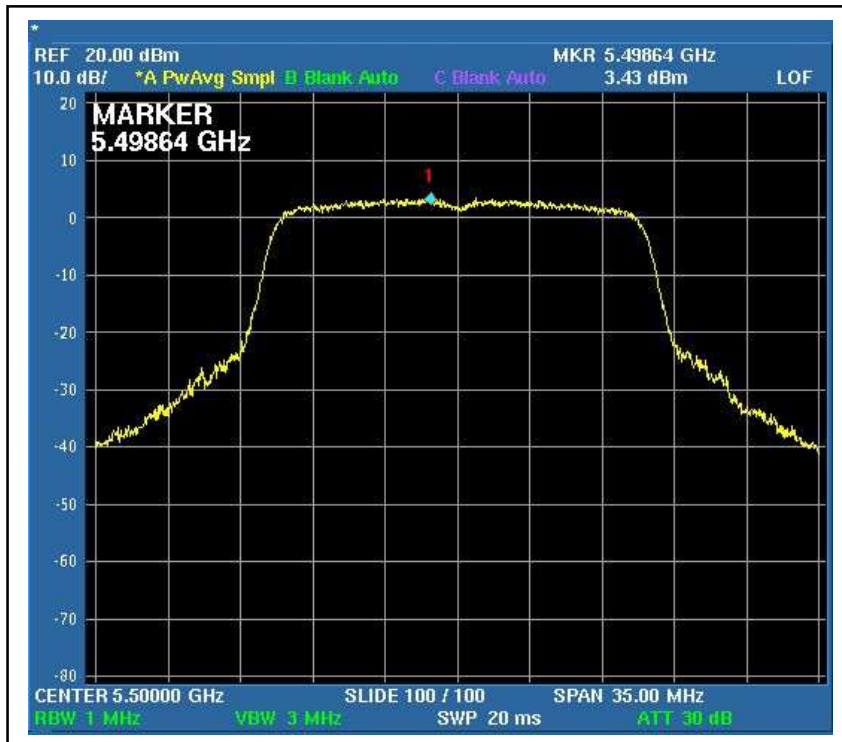
CH5



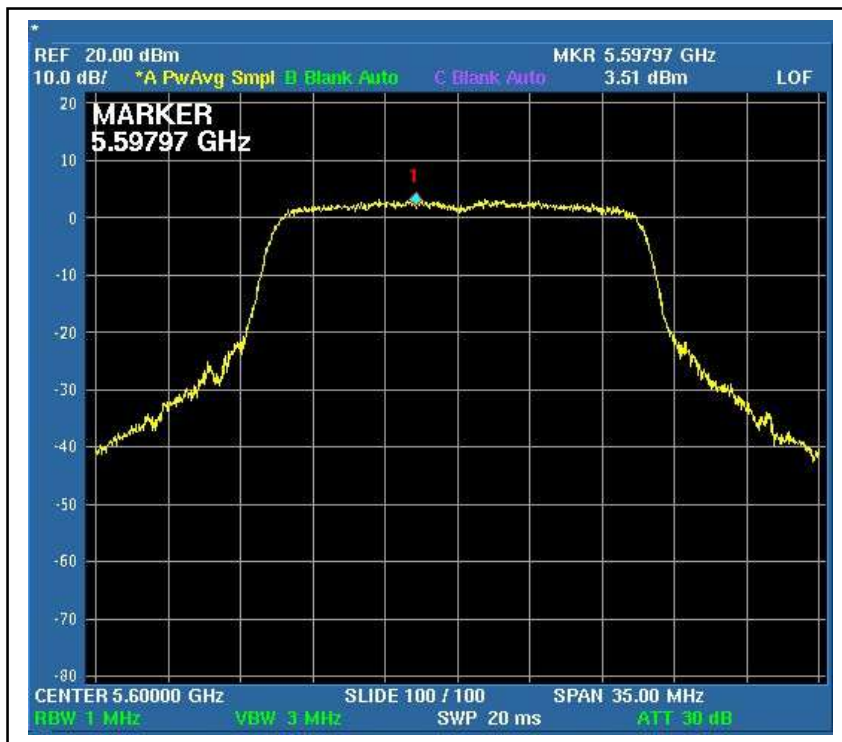
CH8



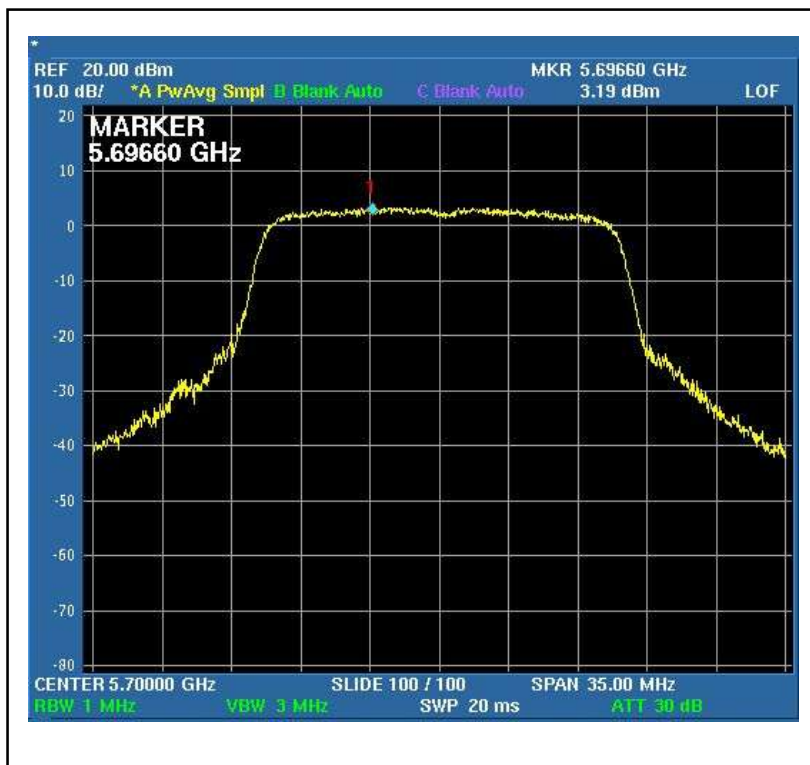
CH9



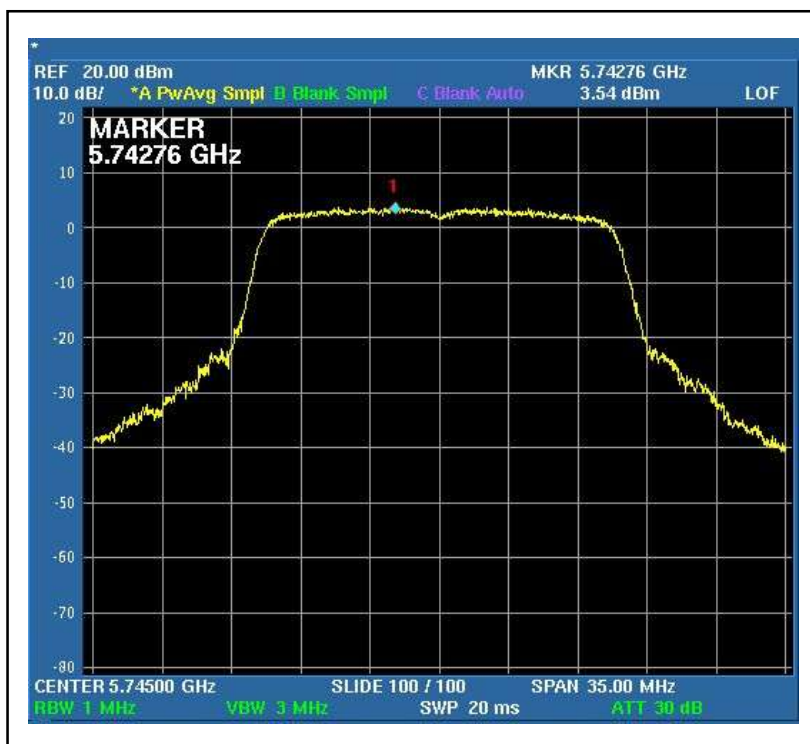
CH14



CH19

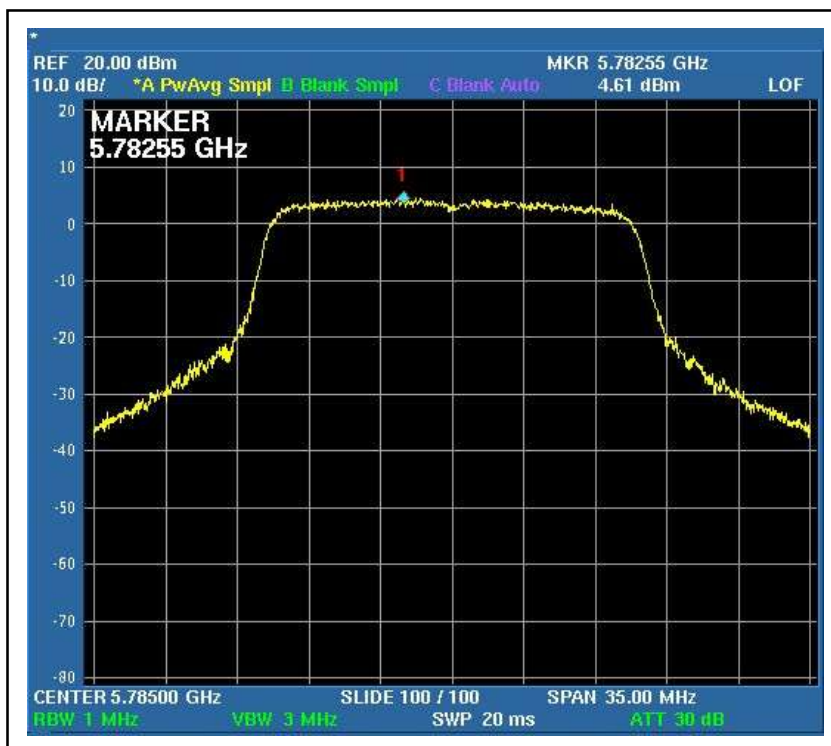


CH20

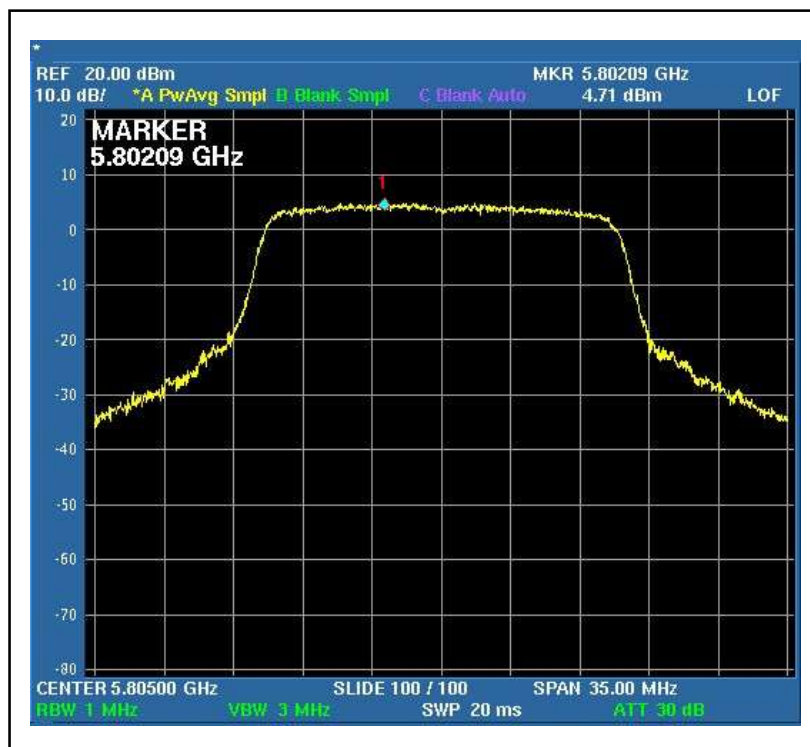




CH22



CH23



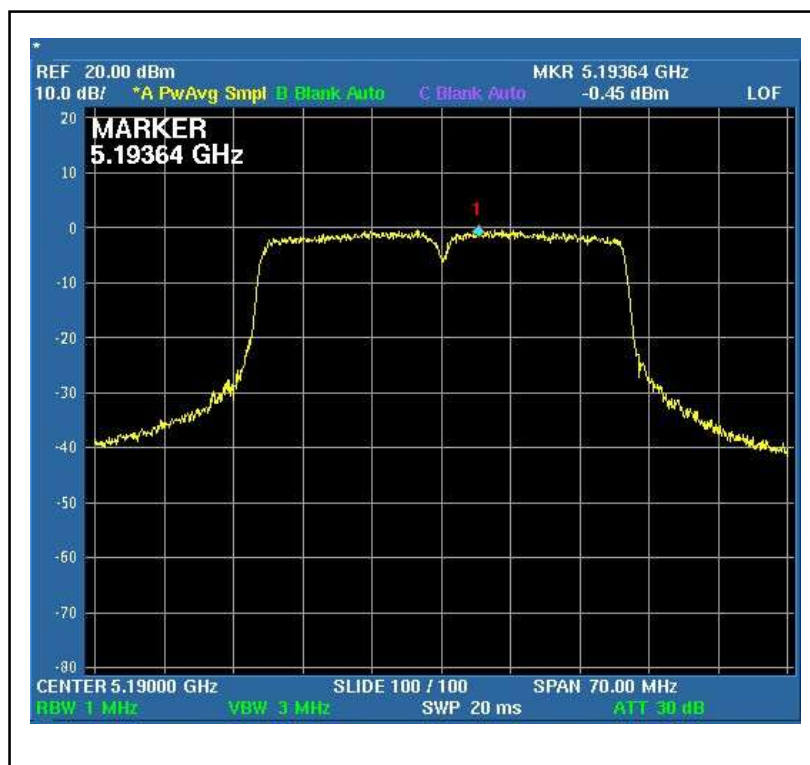


**DRAFT 802.11n (40MHz) OFDM MODULATION:**

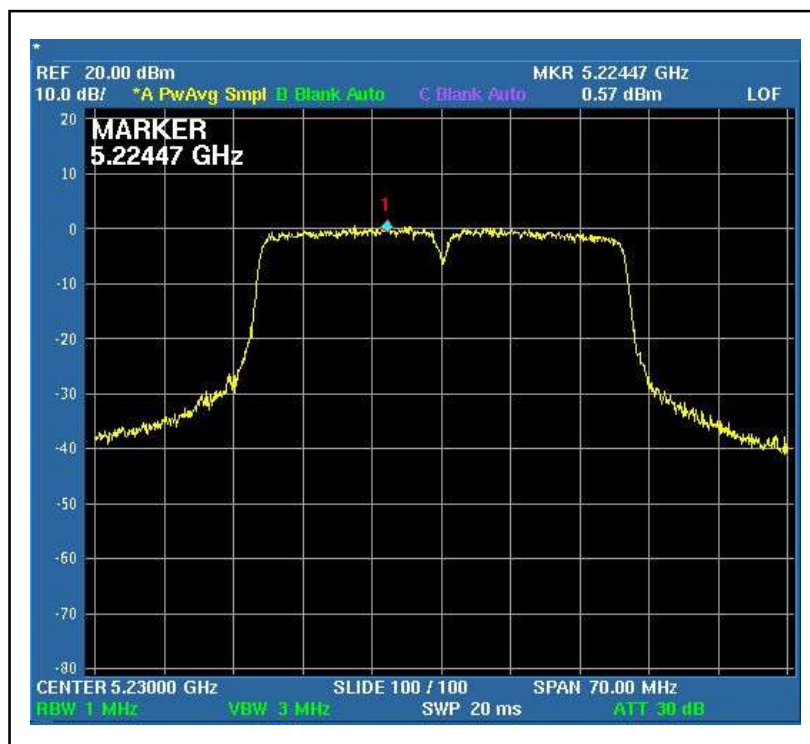
|                             |               |                                 |                        |
|-----------------------------|---------------|---------------------------------|------------------------|
| <b>MODULATION TYPE</b>      | BPSK          | <b>TRANSFER RATE</b>            | 27Mbps                 |
| <b>INPUT POWER (SYSTEM)</b> | 120Vac, 60 Hz | <b>ENVIRONMENTAL CONDITIONS</b> | 20deg.C, 60%RH, 971hPa |
| <b>TESTED BY</b>            | Rex Huang     |                                 |                        |

| CHANNEL | CHANNEL FREQUENCY (MHz) | RF POWER LEVEL IN 1MHz BW (dBm) |          | TOTAL OUTPUT POWER DENSITY (dBm) | MAXIMUM LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|---------------------------------|----------|----------------------------------|---------------------|-----------|
|         |                         | Chain (0)                       | Chain(1) |                                  |                     |           |
| 1       | 5190                    | -0.45                           | -1.67    | 1.993                            | 4                   | PASS      |
| 2       | 5230                    | 0.57                            | -0.71    | 2.987                            | 4                   | PASS      |
| 3       | 5270                    | 0.23                            | -0.60    | 2.845                            | 11                  | PASS      |
| 4       | 5310                    | -0.21                           | -1.01    | 2.419                            | 11                  | PASS      |
| 5       | 5510                    | -0.01                           | -0.56    | 2.734                            | 11                  | PASS      |
| 7       | 5590                    | -0.32                           | -0.49    | 2.606                            | 11                  | PASS      |
| 9       | 5670                    | -0.51                           | 0.39     | 2.974                            | 11                  | PASS      |
| 10      | 5755                    | -1.17                           | -0.29    | 2.303                            | 17                  | PASS      |
| 12      | 5795                    | -1.32                           | 0.76     | 2.854                            | 17                  | PASS      |

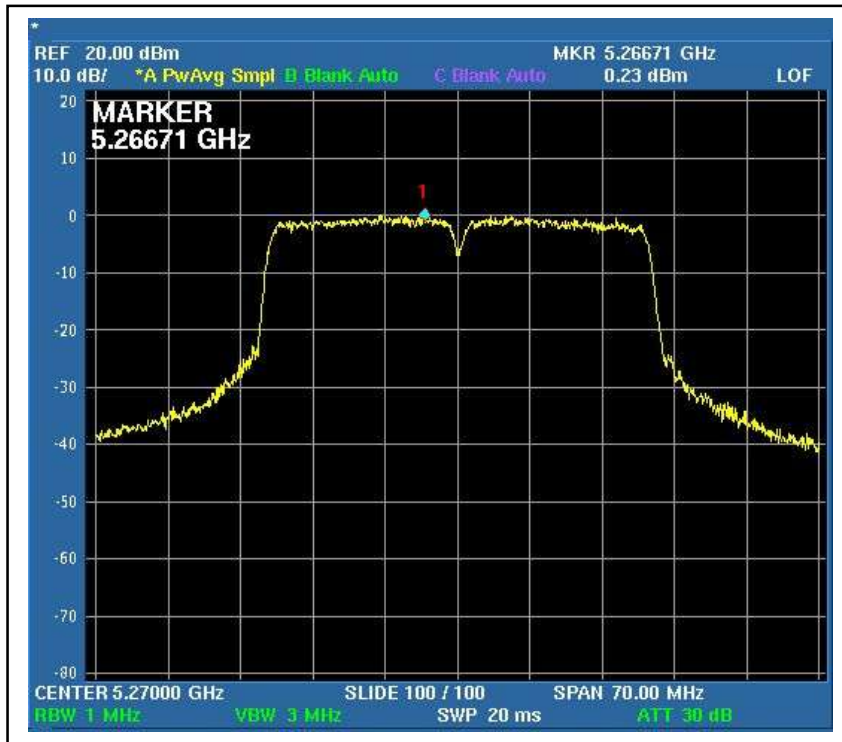
For Chain (0) : CH1



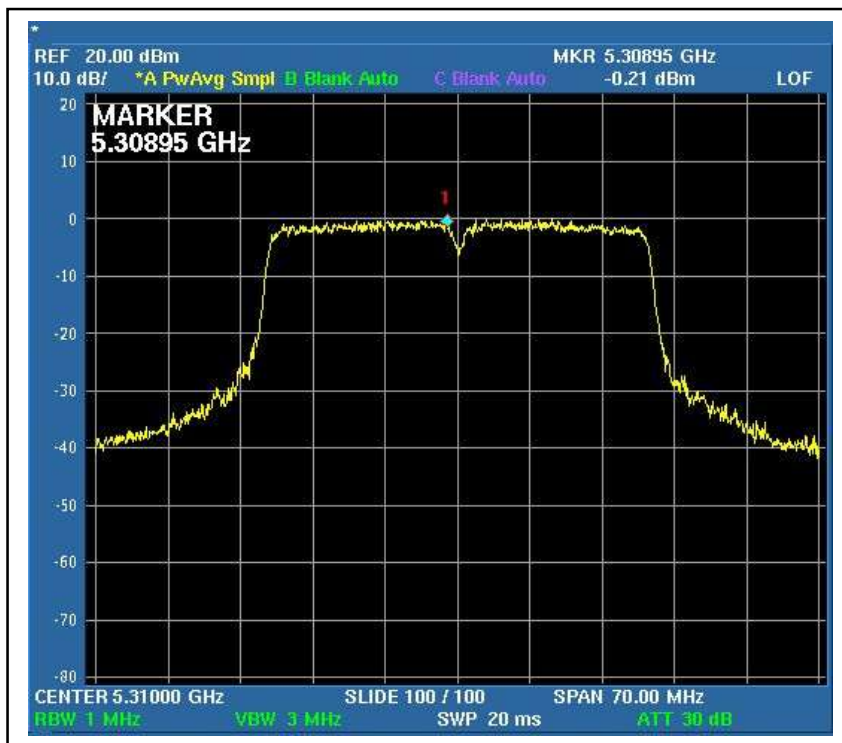
CH2



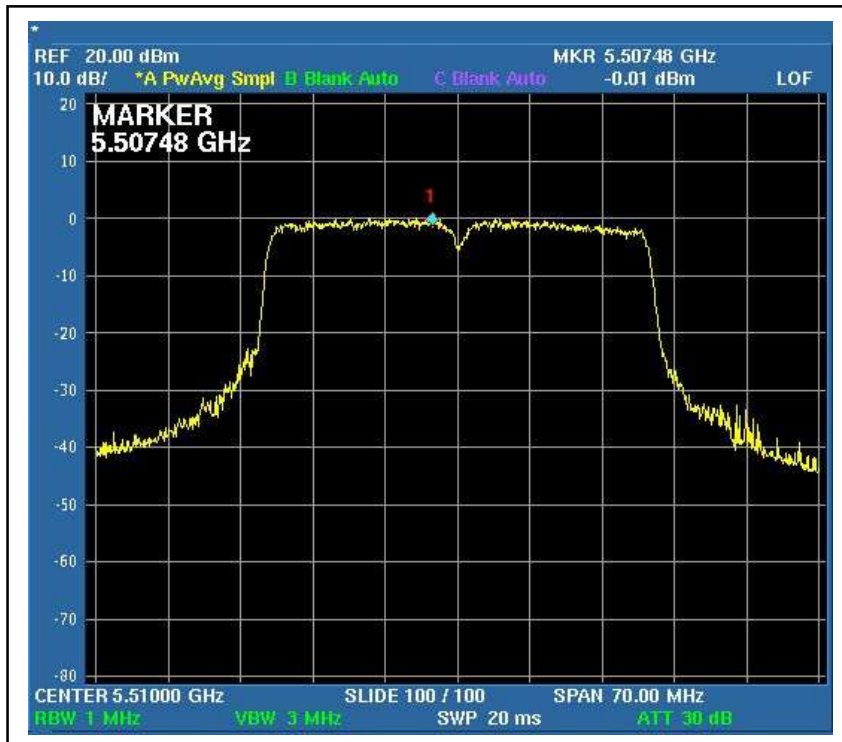
CH3



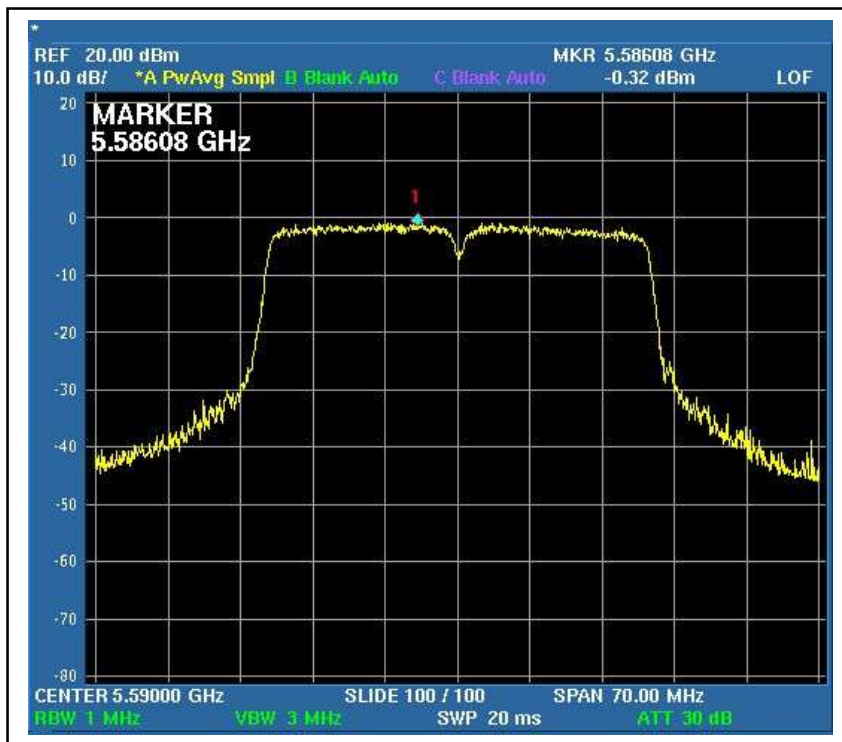
CH4



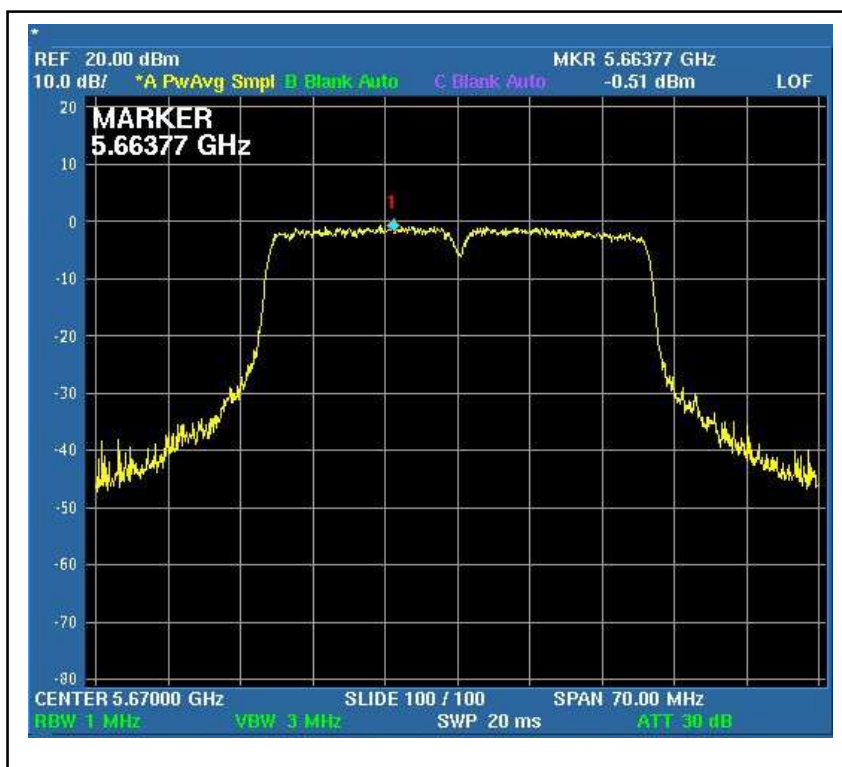
CH5



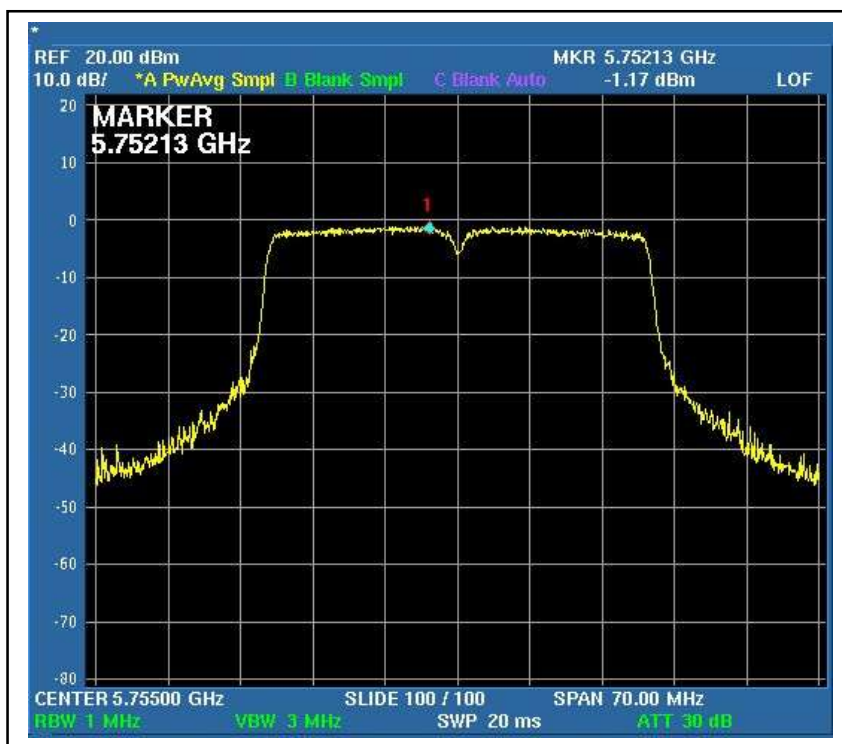
CH7



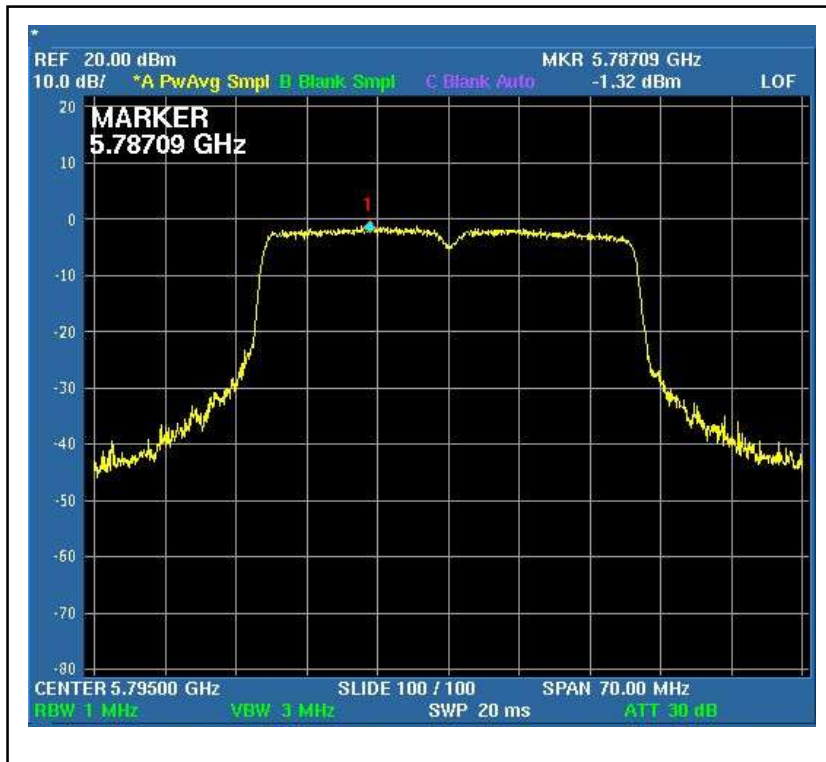
CH9



CH10

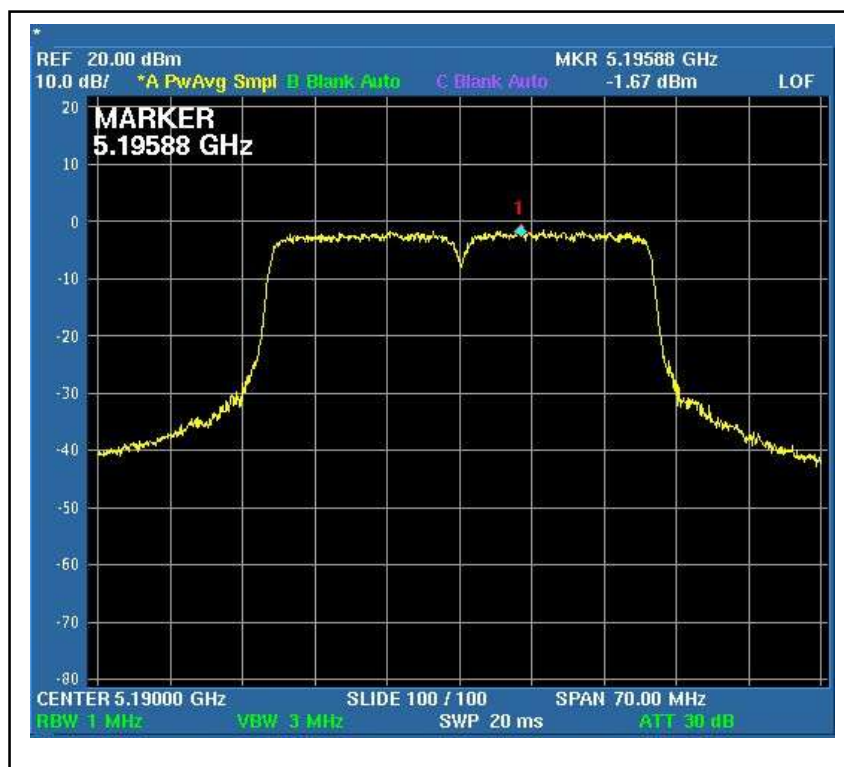


CH12

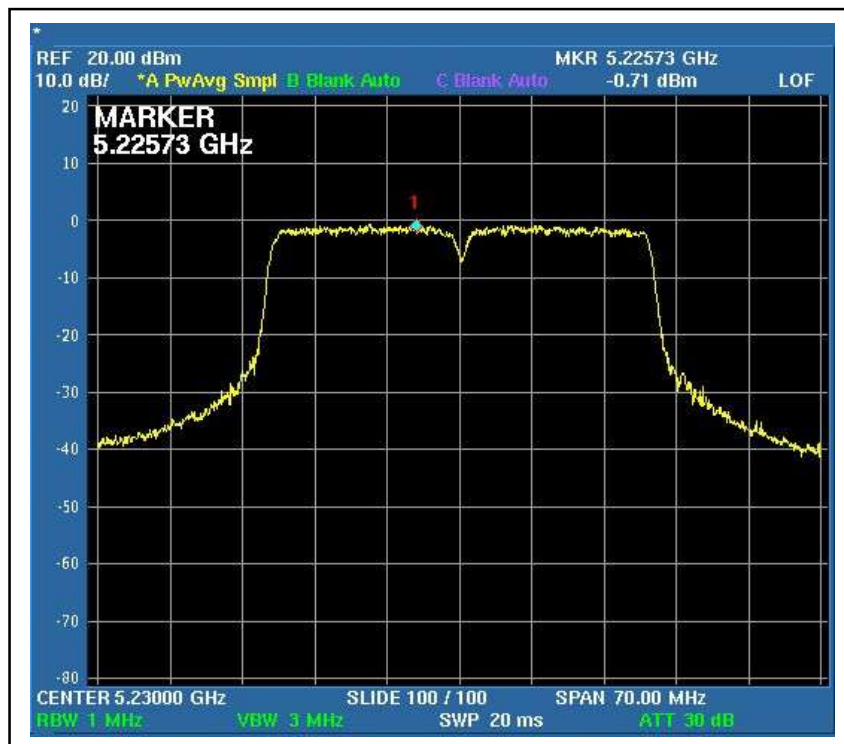




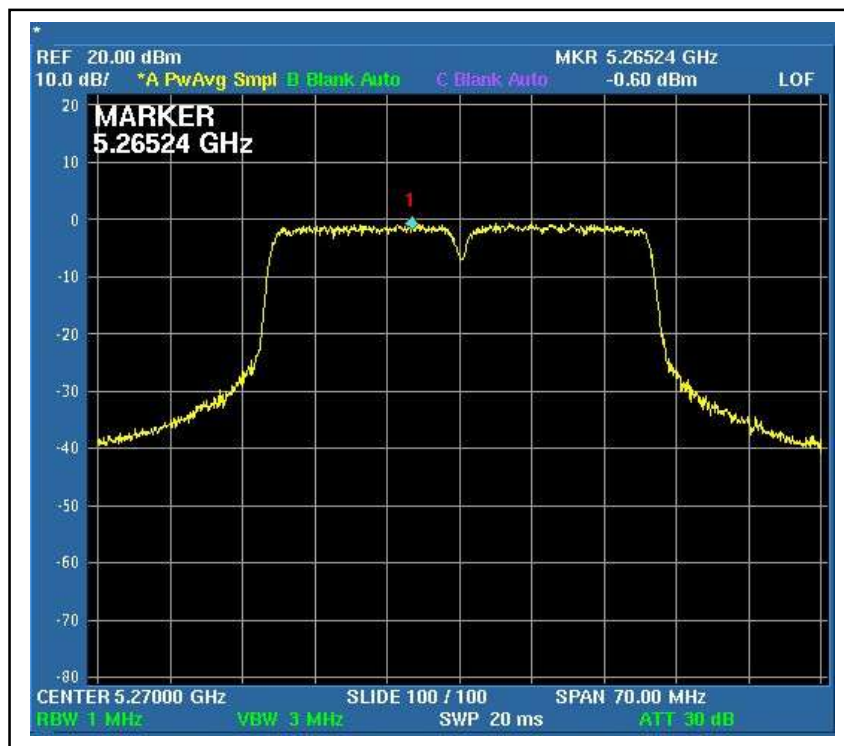
For Chain (1) : CH1



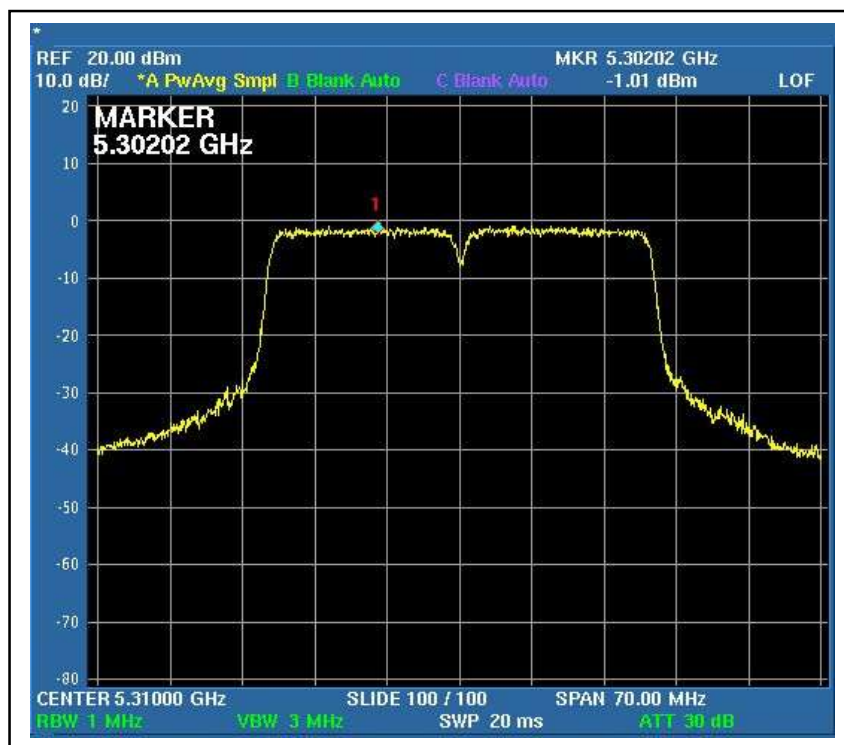
CH2



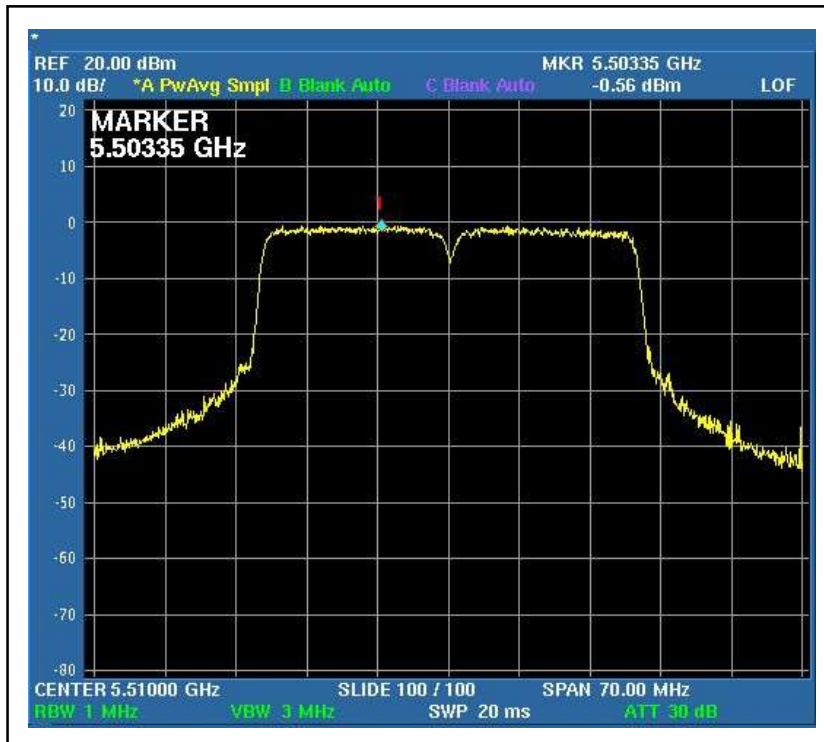
CH3



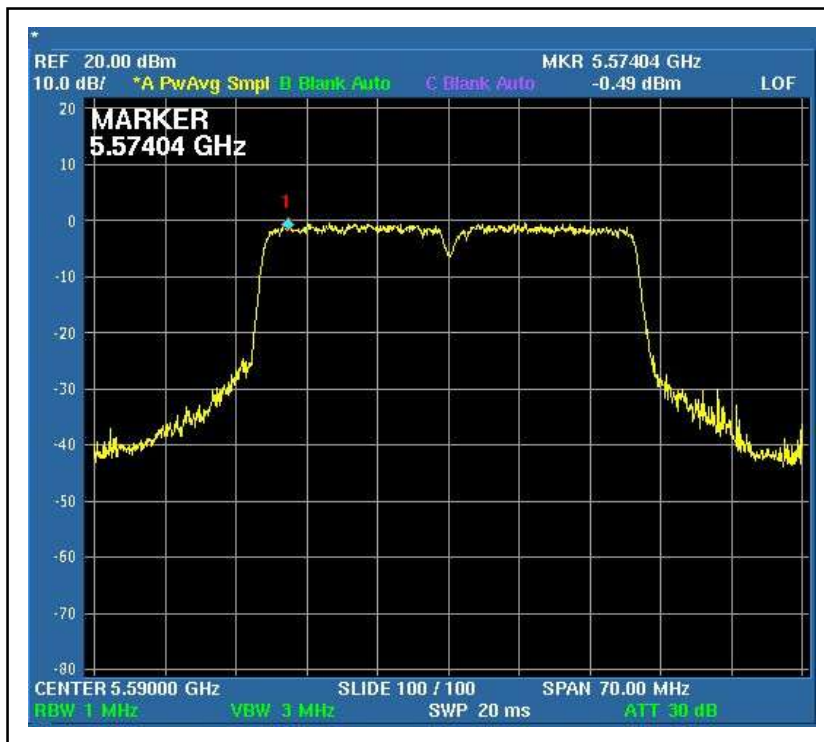
CH4



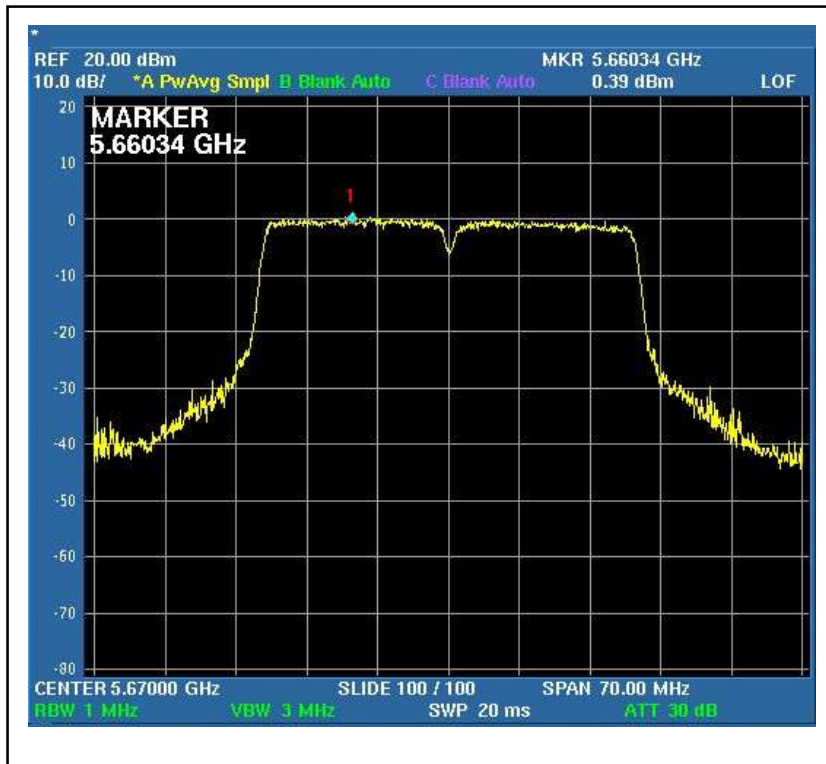
CH5



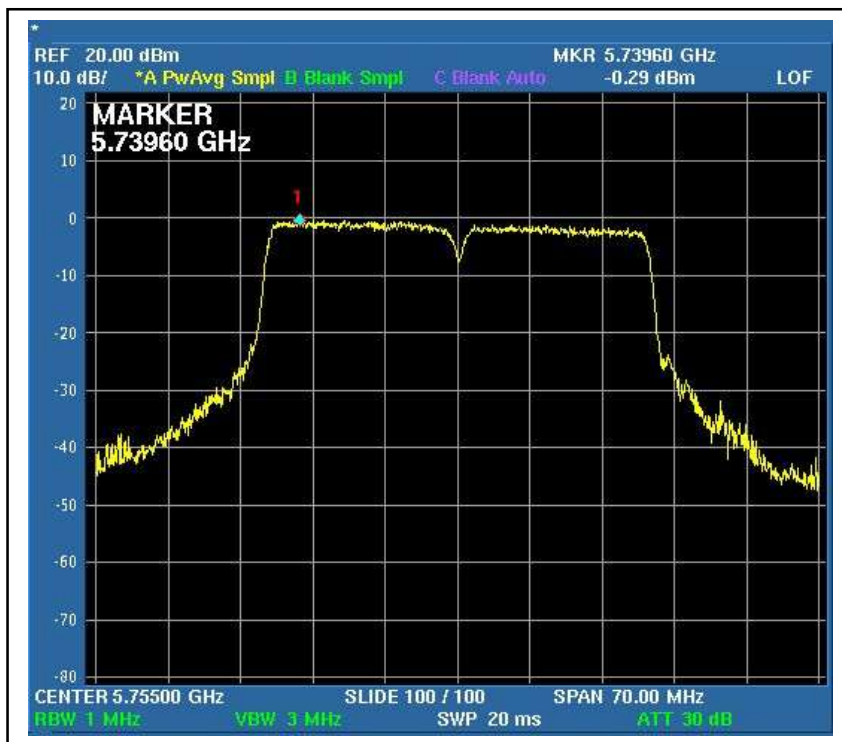
CH7



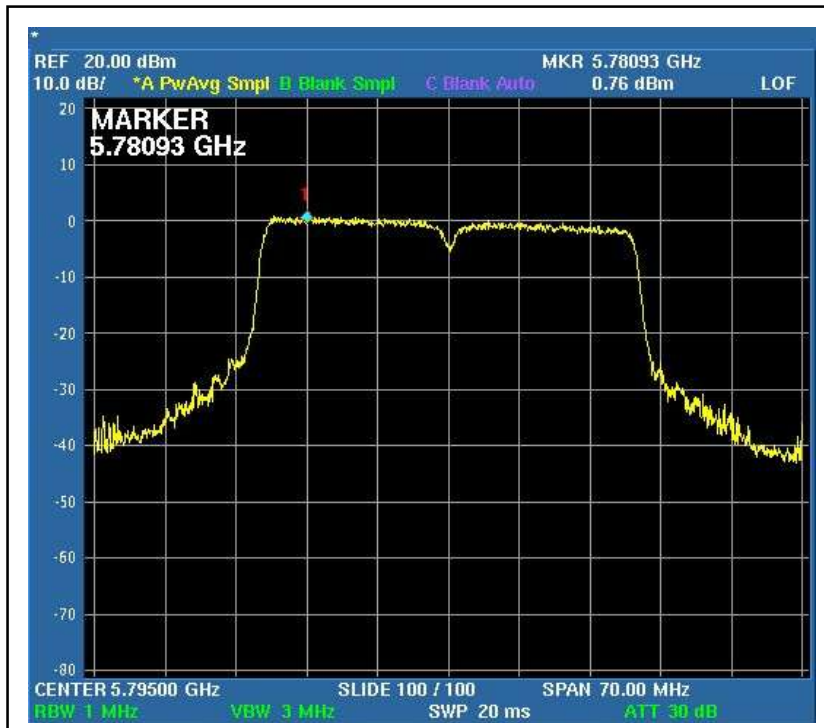
CH9



CH10



CH12



## 4.6 FREQUENCY STABILITY

### 4.6.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

The frequency tolerance of the carrier signal shall be maintained within +/- 0.02% of the operating frequency over a temperature variation of -30 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

### 4.6.2 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|----------------------------|-----------|------------|------------------|
| R&S SPECTRUM ANALYZER      | FSP40     | 100037     | Aug. 12, 2008    |

#### NOTE:

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

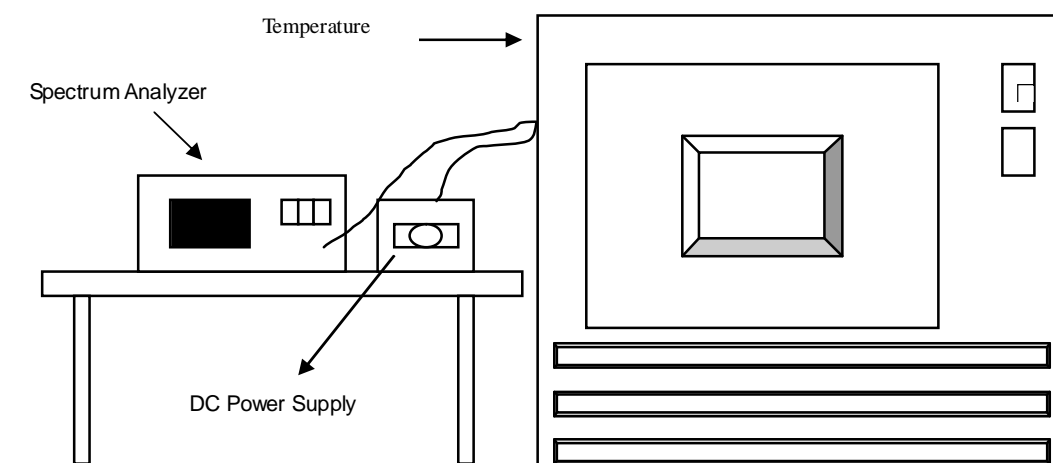
### 4.6.3 TEST PROCEDURE

1. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
2. Turn the EUT on and couple its output to a spectrum analyzer.
3. Turn the EUT off and set the chamber to the highest temperature specified.
4. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
6. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

#### 4.6.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.6.5 TEST SETUP



#### 4.6.6 EUT OPERATING CONDITION

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

#### 4.6.7 TEST RESULTS

|            |                    | Operating frequency: 5320MHz |          |           |          | Limit : ± 0.02% |          |
|------------|--------------------|------------------------------|----------|-----------|----------|-----------------|----------|
| Temp. (°C) | Power supply (VAC) | 2 minute                     |          | 5 minute  |          | 10 minute       |          |
|            |                    | (MHz)                        | (%)      | (MHz)     | (%)      | (MHz)           | (%)      |
| 50         | 126.5              | 5319.9774                    | 0.000425 | 5319.9777 | 0.000419 | 5319.9787       | 0.000400 |
|            | 110                | 5319.9774                    | 0.000425 | 5319.9779 | 0.000415 | 5319.9788       | 0.000398 |
|            | 93.5               | 5319.9774                    | 0.000425 | 5319.9777 | 0.000419 | 5319.9786       | 0.000402 |
| 40         | 126.5              | 5319.9968                    | 0.000060 | 5319.9969 | 0.000058 | 5319.9978       | 0.000041 |
|            | 110                | 5319.9968                    | 0.000060 | 5319.9971 | 0.000055 | 5319.9981       | 0.000036 |
|            | 93.5               | 5319.9968                    | 0.000060 | 5319.9969 | 0.000058 | 5319.9978       | 0.000041 |
| 30         | 126.5              | 5320.0216                    | 0.000406 | 5320.0225 | 0.000423 | 5320.0238       | 0.000447 |
|            | 110                | 5320.0216                    | 0.000406 | 5320.0224 | 0.000421 | 5320.0238       | 0.000447 |
|            | 93.5               | 5320.0218                    | 0.000410 | 5320.0222 | 0.000417 | 5320.0238       | 0.000447 |
| 20         | 126.5              | 5320.0158                    | 0.000297 | 5320.0148 | 0.000278 | 5320.0140       | 0.000263 |
|            | 110                | 5320.0156                    | 0.000293 | 5320.0168 | 0.000316 | 5320.0160       | 0.000301 |
|            | 93.5               | 5320.0156                    | 0.000293 | 5320.0138 | 0.000259 | 5320.0140       | 0.000263 |
| 10         | 126.5              | 5319.9976                    | 0.000045 | 5319.998  | 0.000038 | 5319.9989       | 0.000021 |
|            | 110                | 5319.9976                    | 0.000045 | 5319.998  | 0.000038 | 5319.9991       | 0.000017 |
|            | 93.5               | 5319.9976                    | 0.000045 | 5319.9979 | 0.000039 | 5319.9988       | 0.000023 |
| 0          | 126.5              | 5320.0082                    | 0.000154 | 5320.0038 | 0.000071 | 5320.0050       | 0.000094 |
|            | 110                | 5320.0082                    | 0.000154 | 5320.0068 | 0.000128 | 5320.0060       | 0.000113 |
|            | 93.5               | 5320.0062                    | 0.000117 | 5320.0038 | 0.000071 | 5320.0050       | 0.000094 |
| -10        | 126.5              | 5319.9923                    | 0.000145 | 5319.9926 | 0.000139 | 5319.9935       | 0.000122 |
|            | 110                | 5319.9924                    | 0.000143 | 5319.993  | 0.000132 | 5319.9939       | 0.000115 |
|            | 93.5               | 5319.9923                    | 0.000145 | 5319.9926 | 0.000139 | 5319.9935       | 0.000122 |
| -20        | 126.5              | 5320.0152                    | 0.000286 | 5320.0108 | 0.000203 | 5320.0080       | 0.000150 |
|            | 110                | 5320.0152                    | 0.000286 | 5320.0138 | 0.000259 | 5320.0110       | 0.000207 |
|            | 93.5               | 5320.0152                    | 0.000286 | 5320.0098 | 0.000184 | 5320.0090       | 0.000169 |
| -30        | 126.5              | 5319.9733                    | 0.000502 | 5319.9834 | 0.000312 | 5319.9843       | 0.000295 |
|            | 110                | 5319.9734                    | 0.000500 | 5319.9834 | 0.000312 | 5319.9845       | 0.000291 |
|            | 93.5               | 5319.9833                    | 0.000314 | 5319.9837 | 0.000306 | 5319.9842       | 0.000297 |



## 4.7 BAND EDGES MEASUREMENT

### 4.7.1 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|----------------------------|-----------|------------|------------------|
| R&S SPECTRUM ANALYZER      | FSP40     | 100037     | Aug. 12, 2008    |

**NOTE:**

- 1.The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2.The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

### 4.7.2 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low loss cable. Set RBW of spectrum analyzer to 1MHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

### 4.7.3 EUT OPERATING CONDITION

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

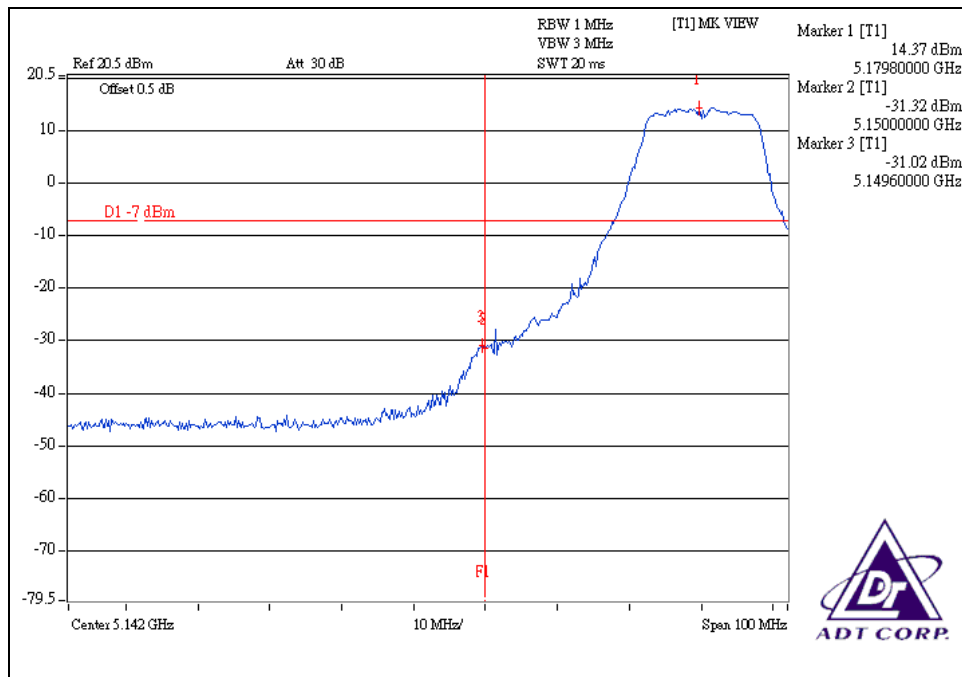
#### 4.7.4 TEST RESULTS

For 5.15 to 5.35GHz band:

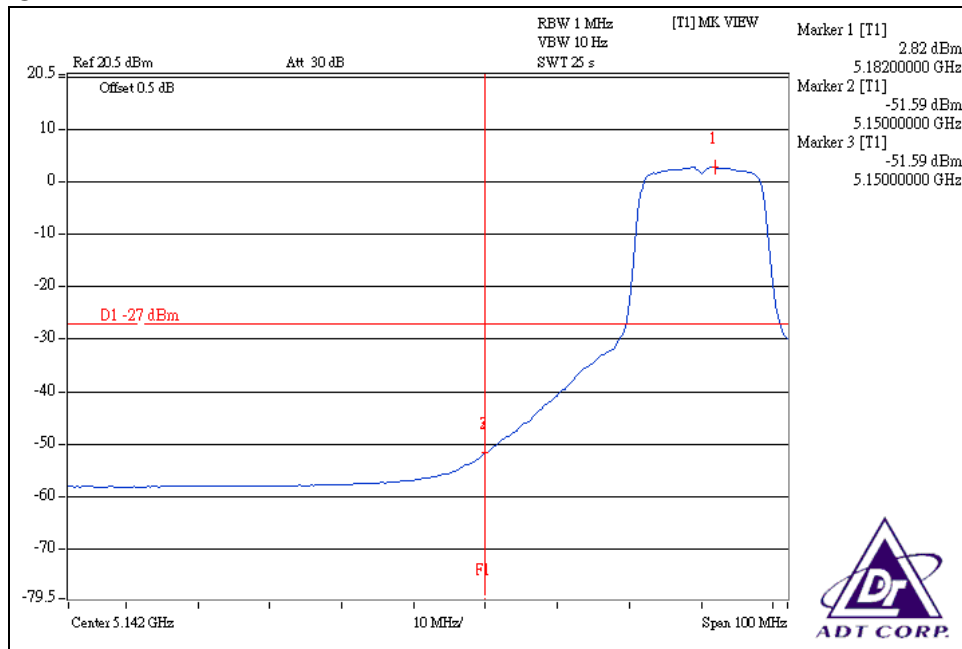
The spectrum plots (Peak RBW=1MHz, VBW=3MHz; Average RBW=1MHz, VBW=10Hz) are attached on the following pages.

## 802.11a OFDM modulation

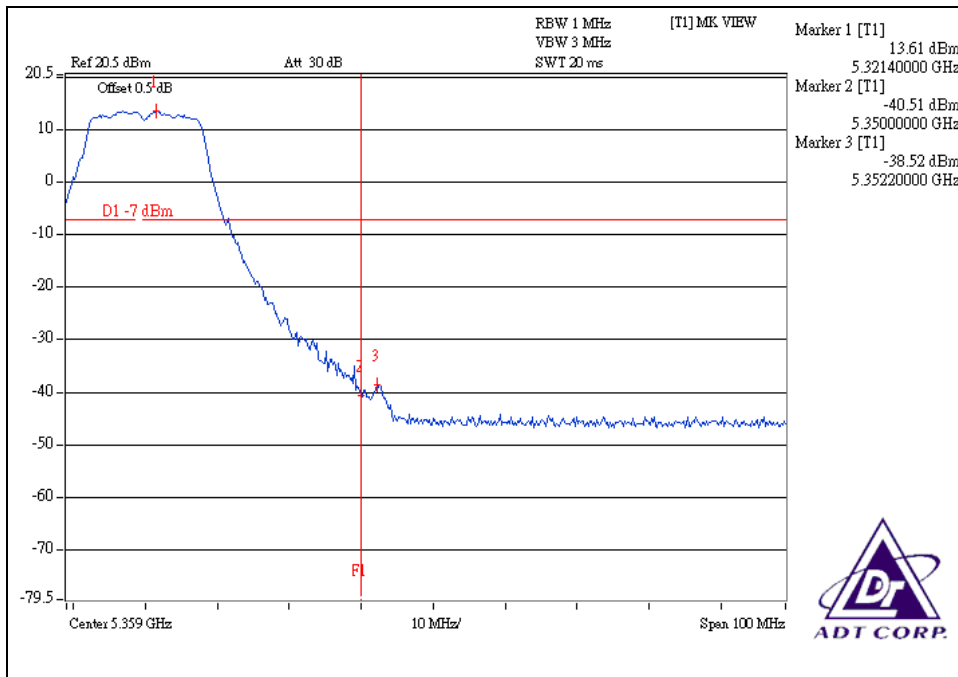
### CH 1



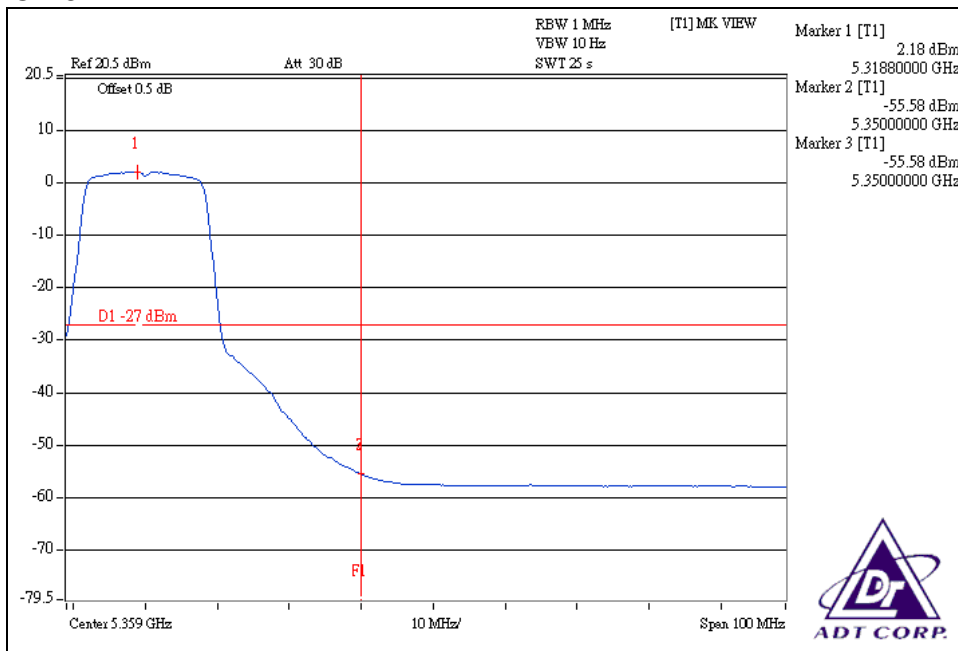
### CH 1



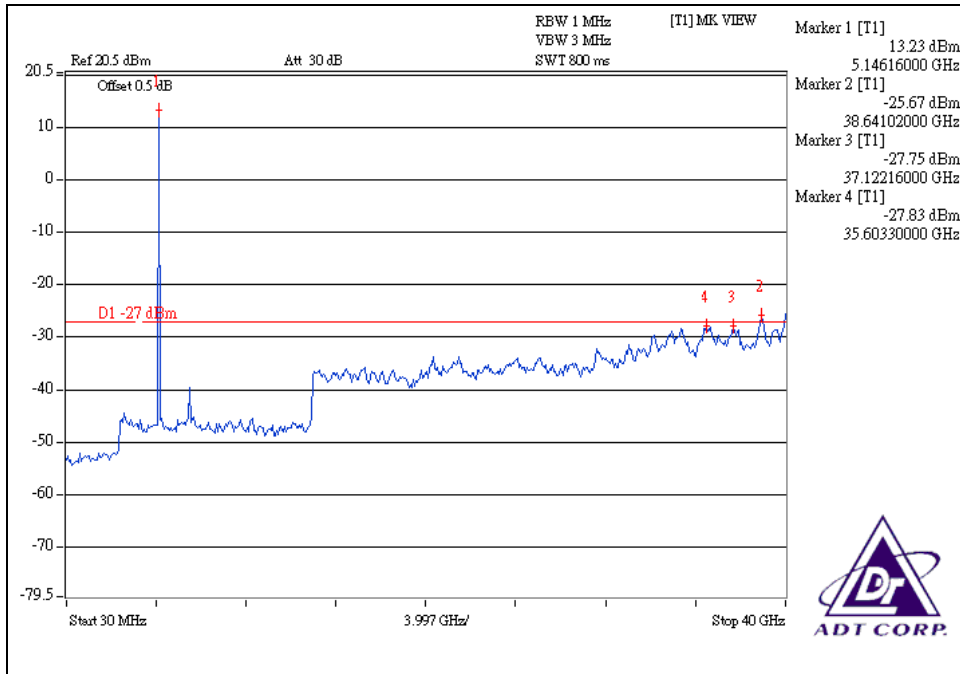
### CH 8



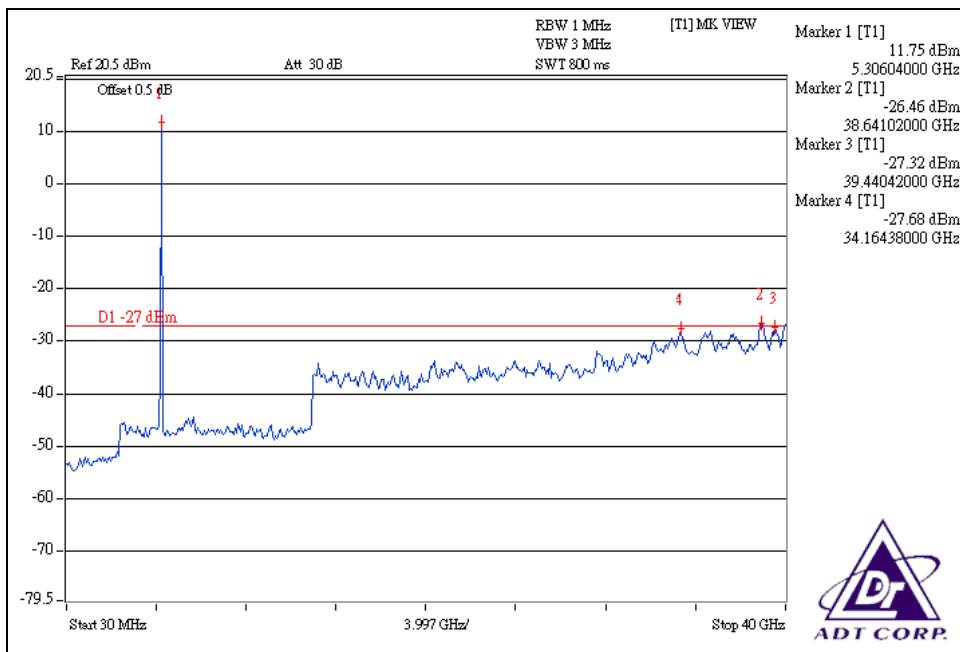
### CH 8



### CH 1



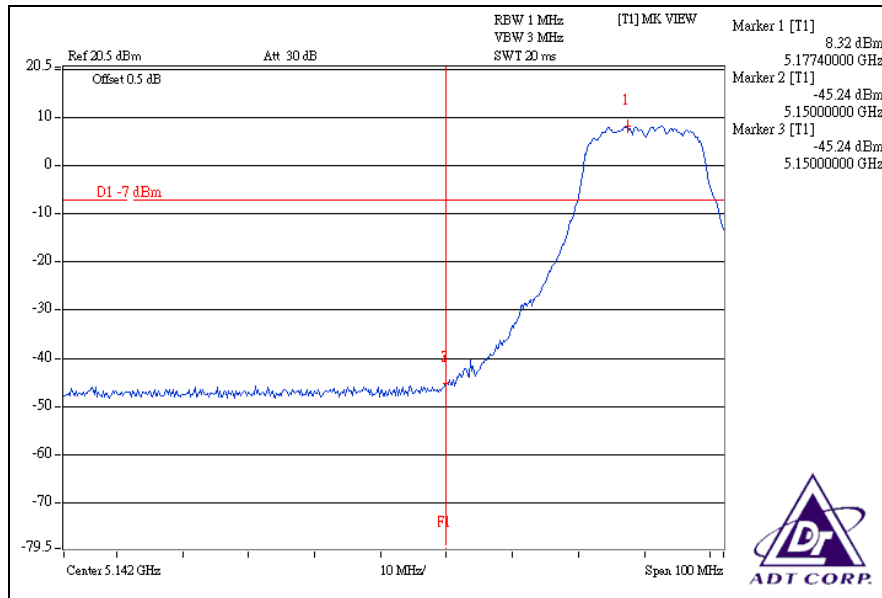
### CH 8



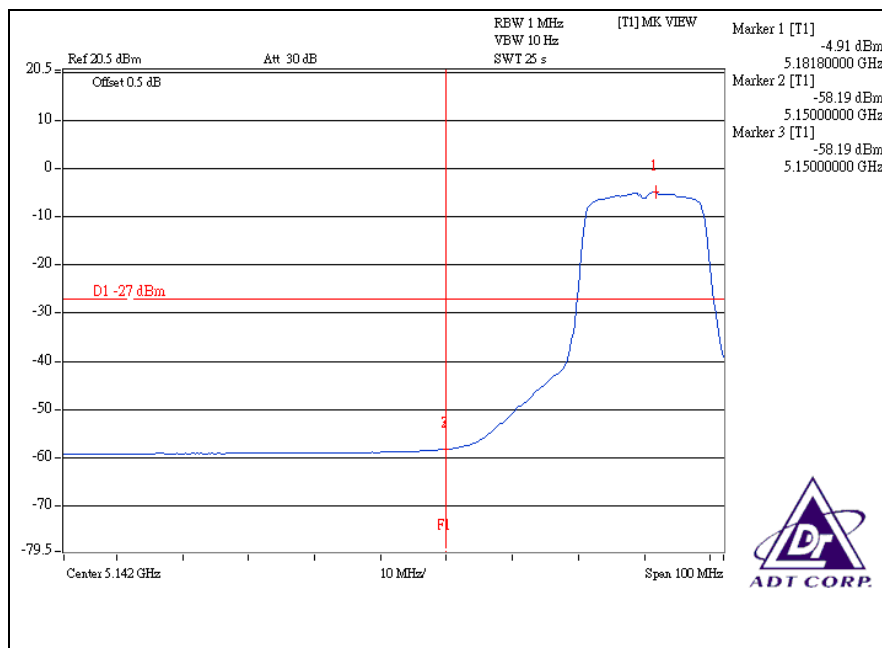
## DRAFT 802.11n (20MHz) OFDM MODULATION:

For chain (0):

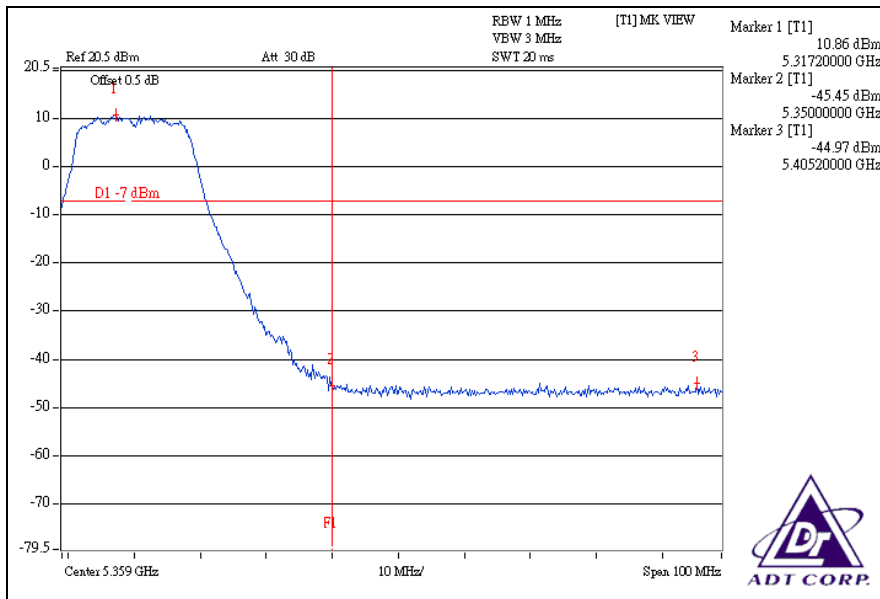
CH1



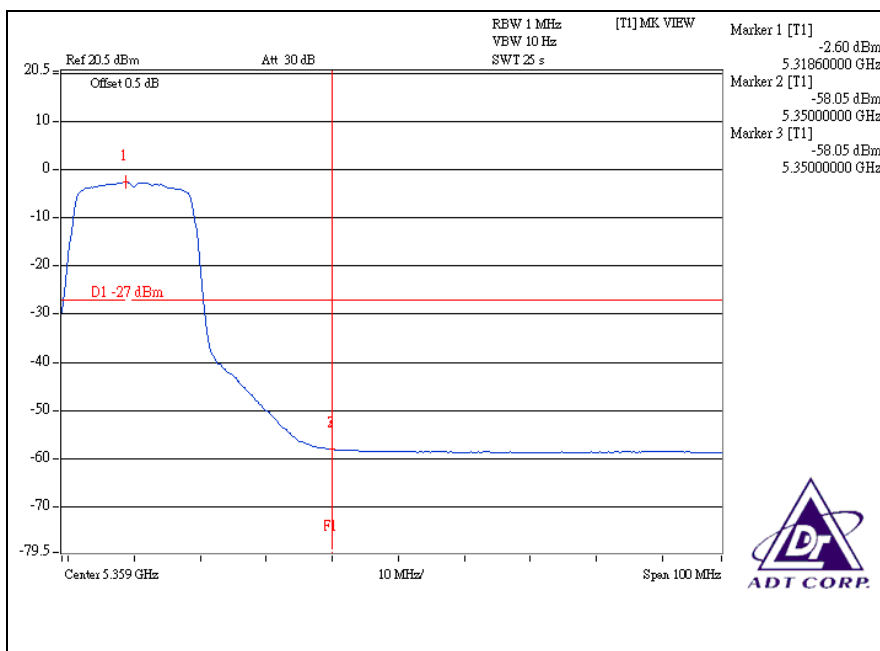
CH1



### CH8



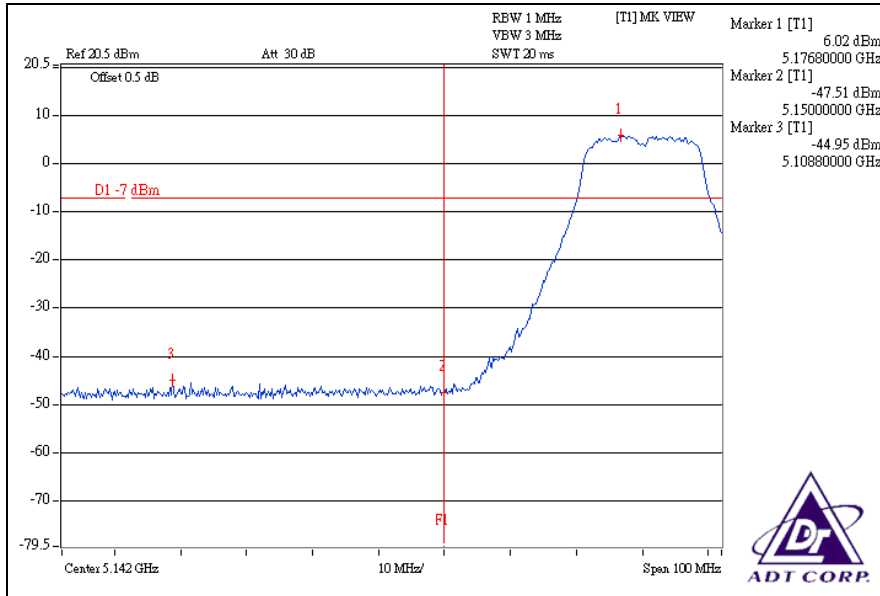
### CH8



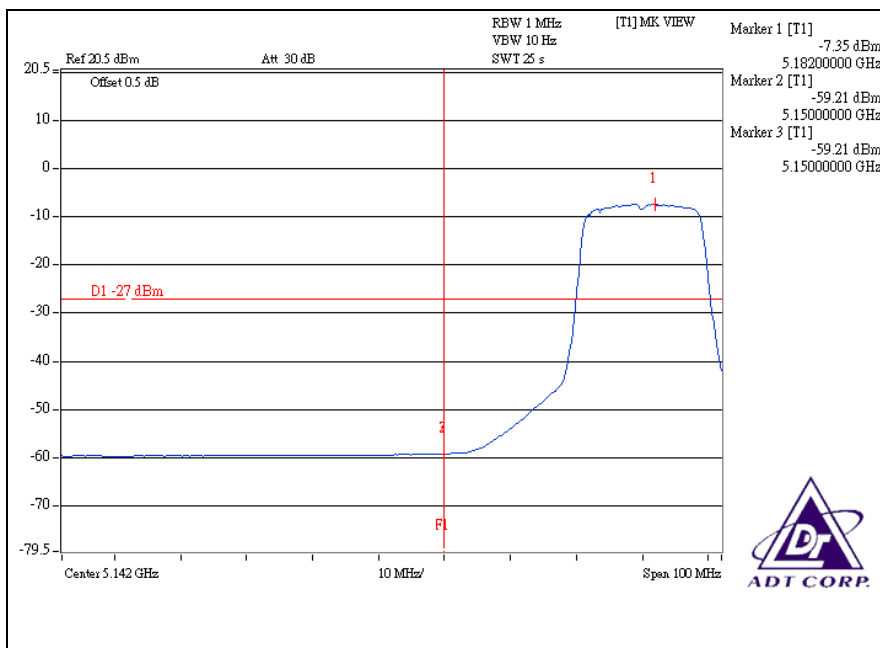


### For chain (1):

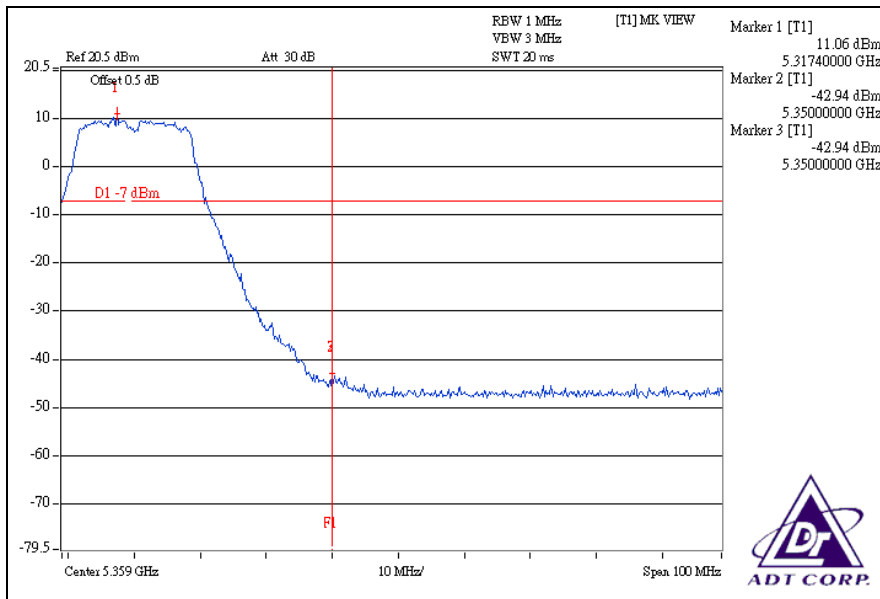
#### CH1



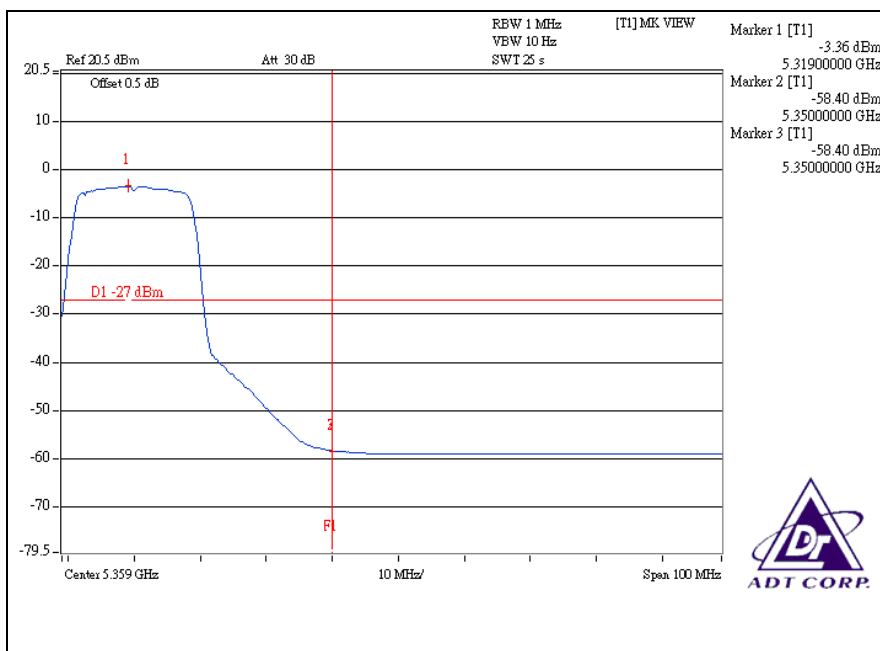
#### CH1



### CH8

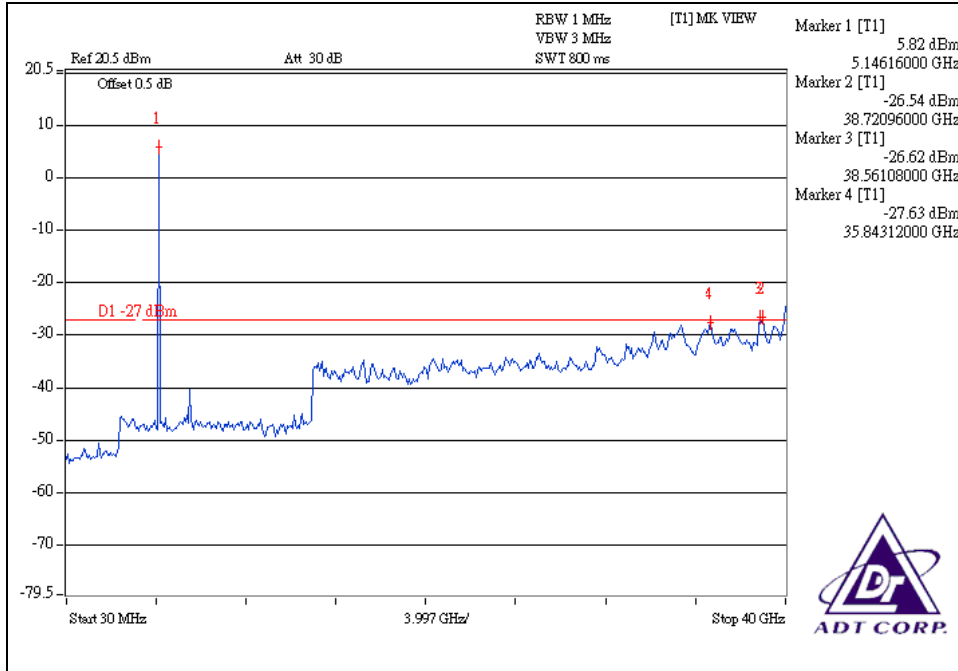


### CH8

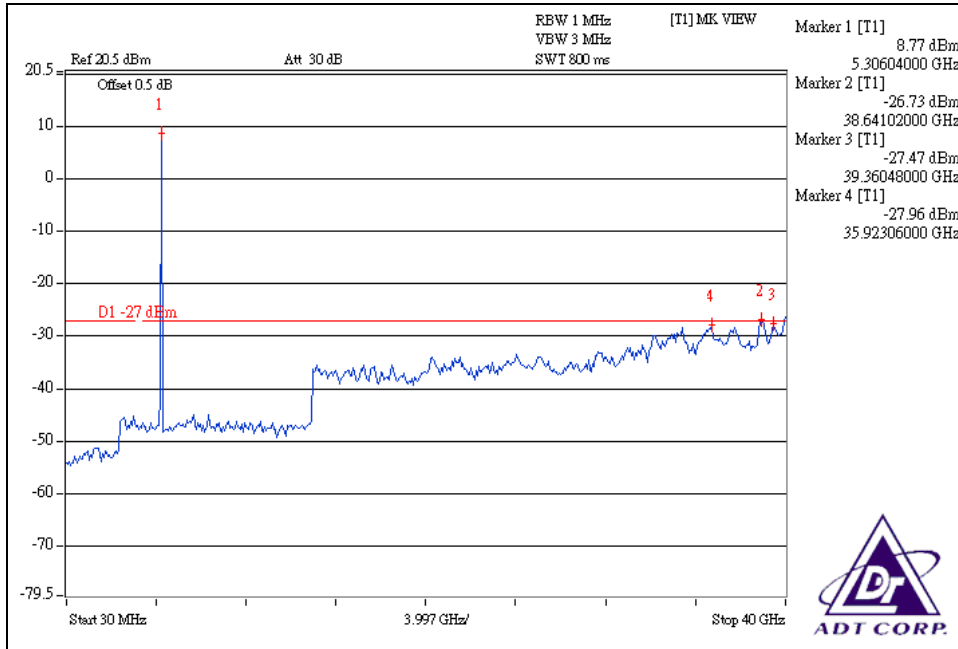


**For chain (0):**

**CH1**

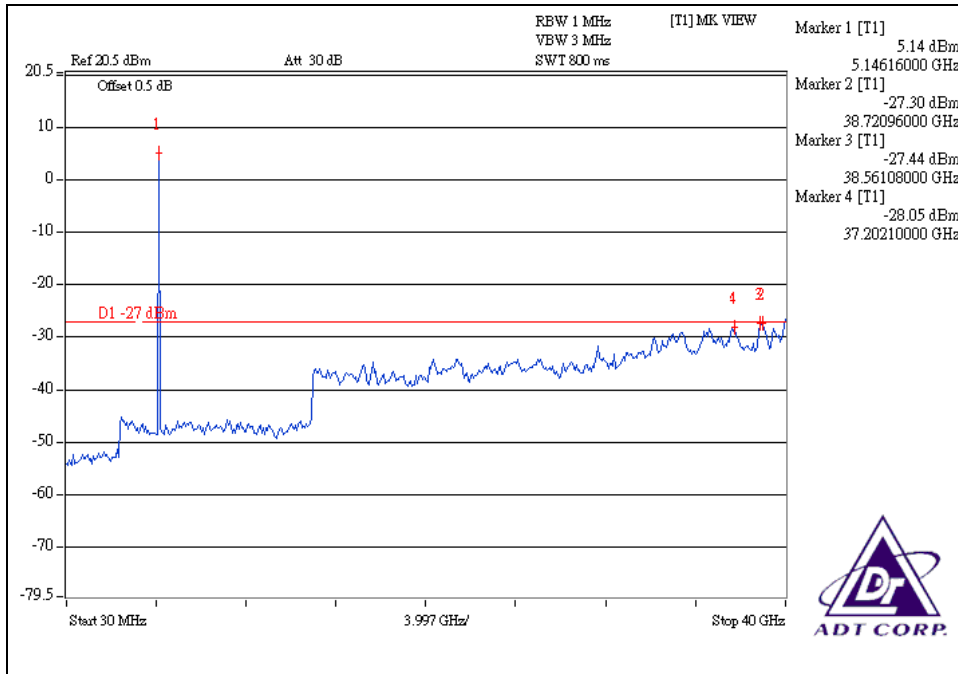


**CH8**

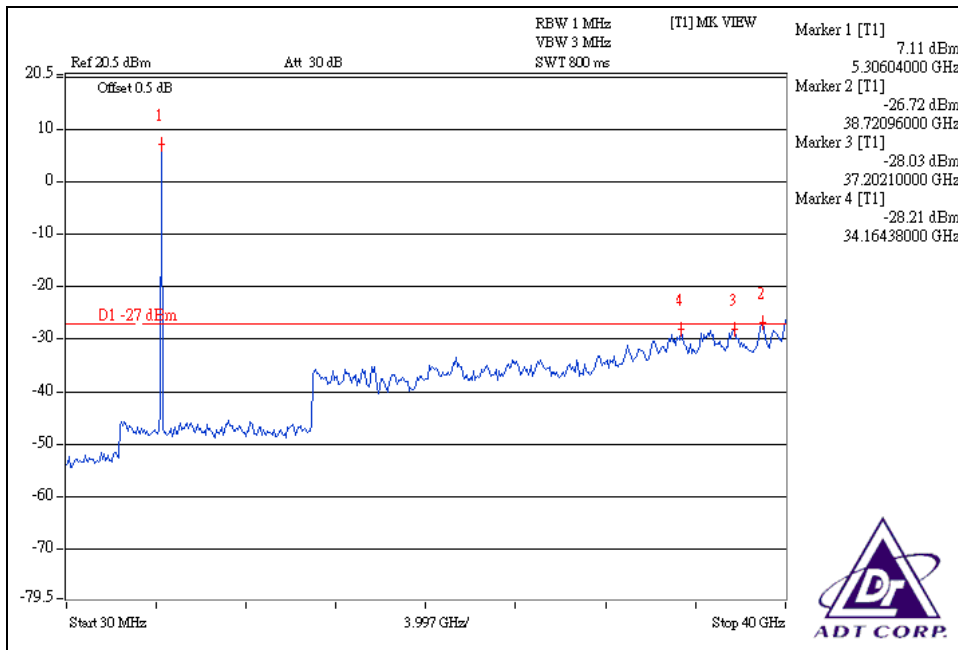


**For chain (1):**

**CH1**



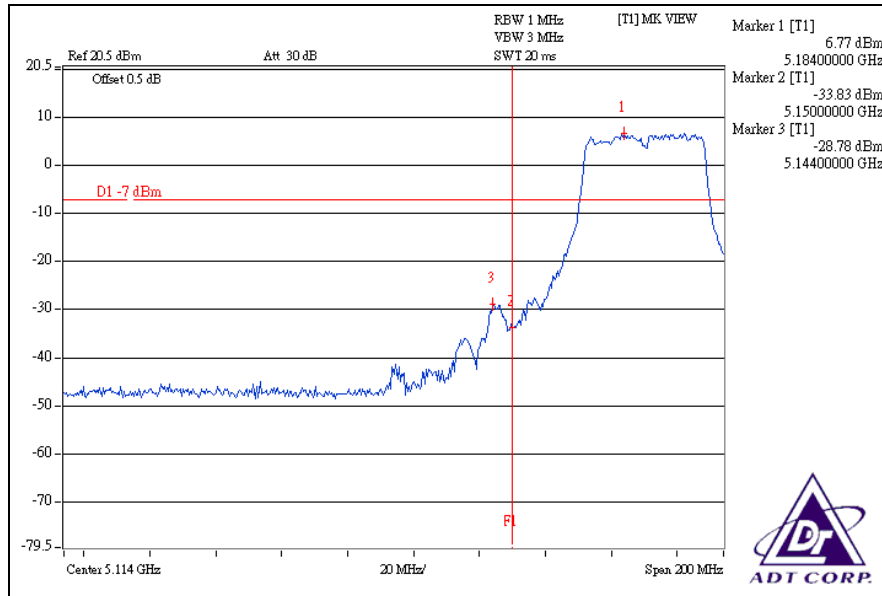
**CH8**



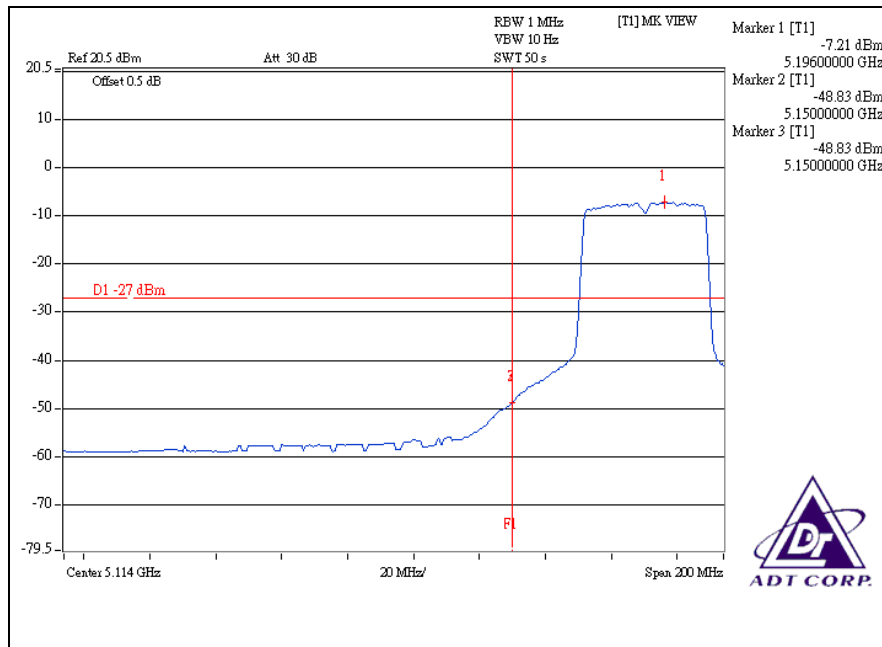
## DRAFT 802.11n (40MHz) OFDM MODULATION:

For chain (0):

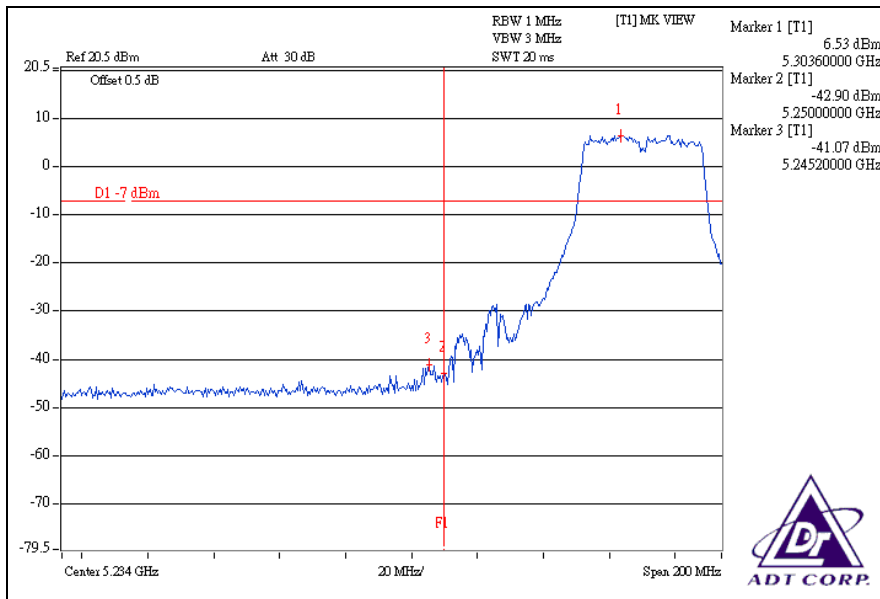
CH1



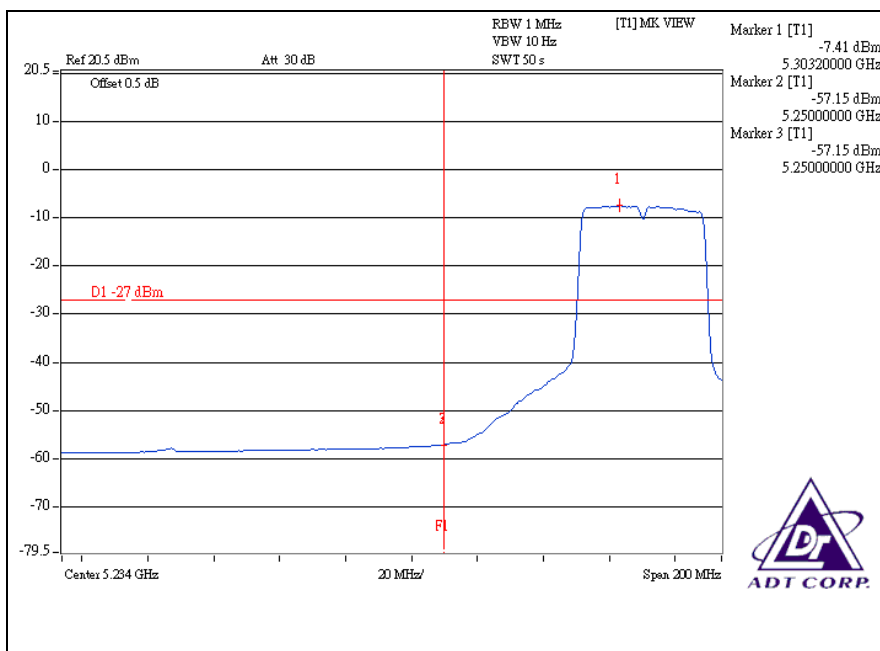
CH1



### CH4

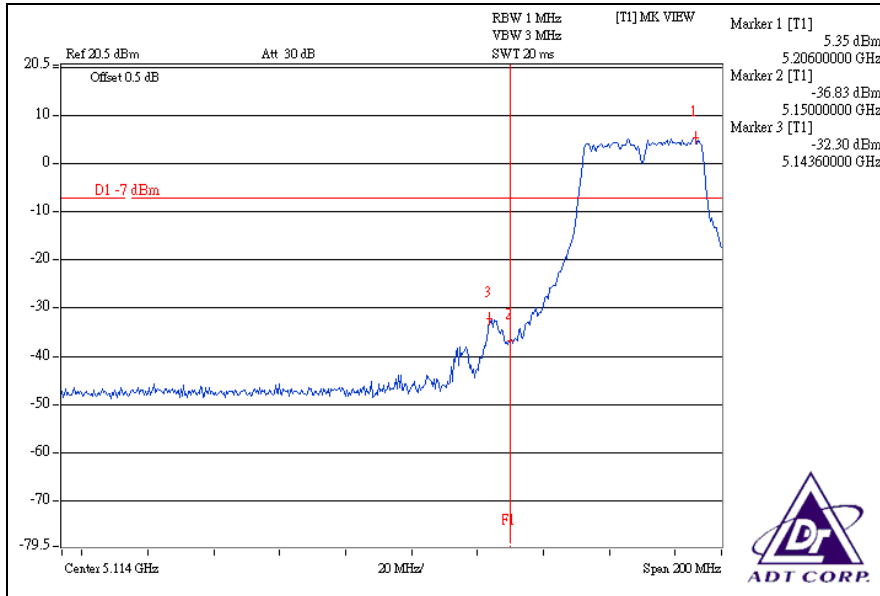


### CH4

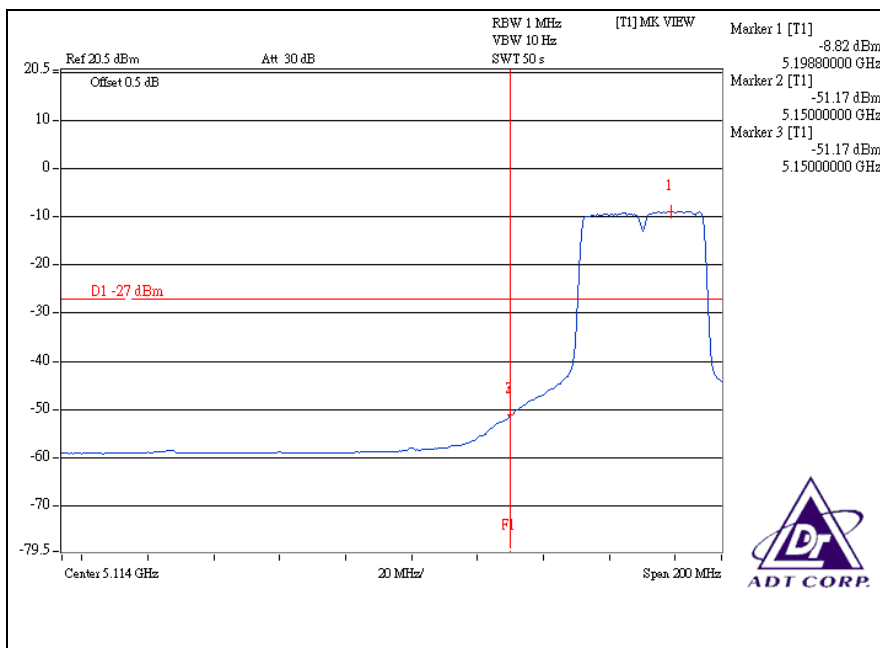


**For chain (1):**

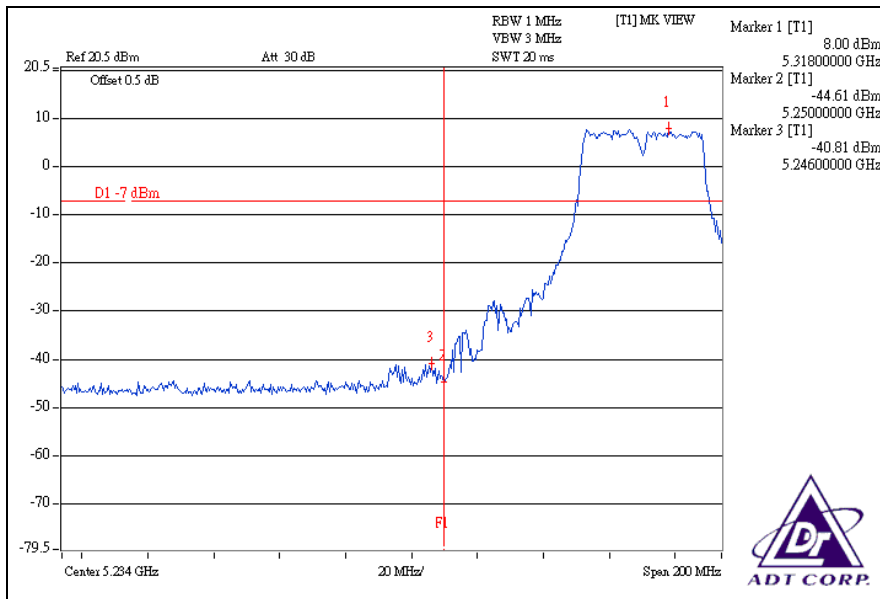
**CH1**



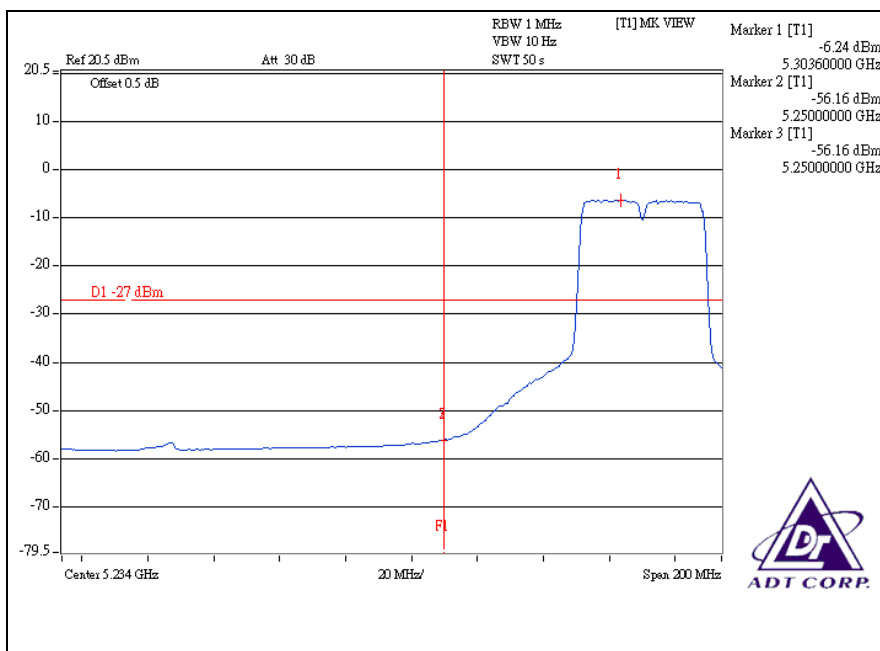
**CH1**



### CH4



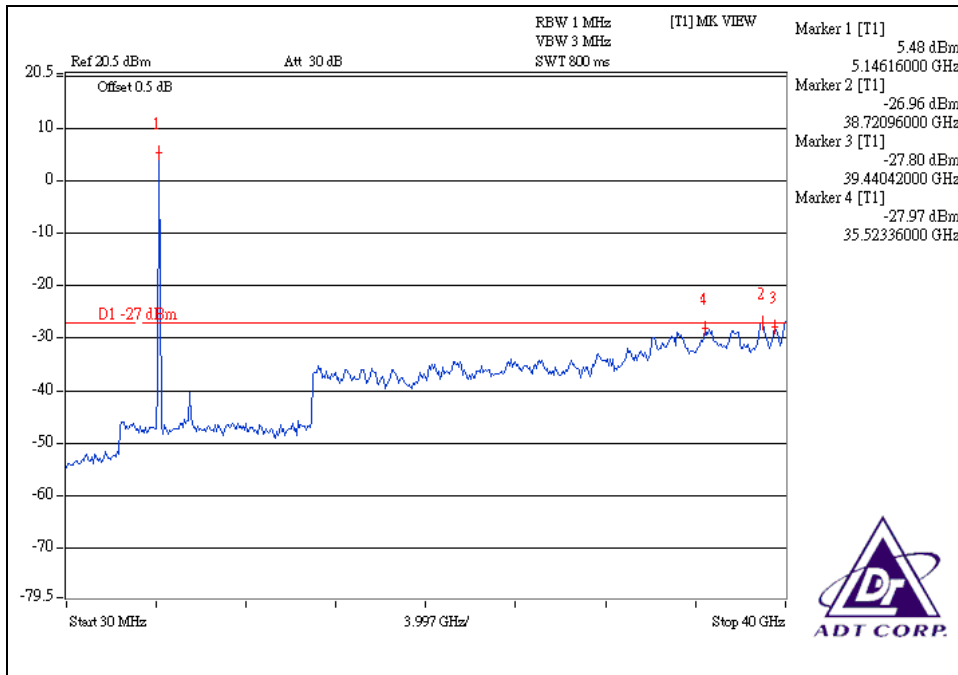
### CH4



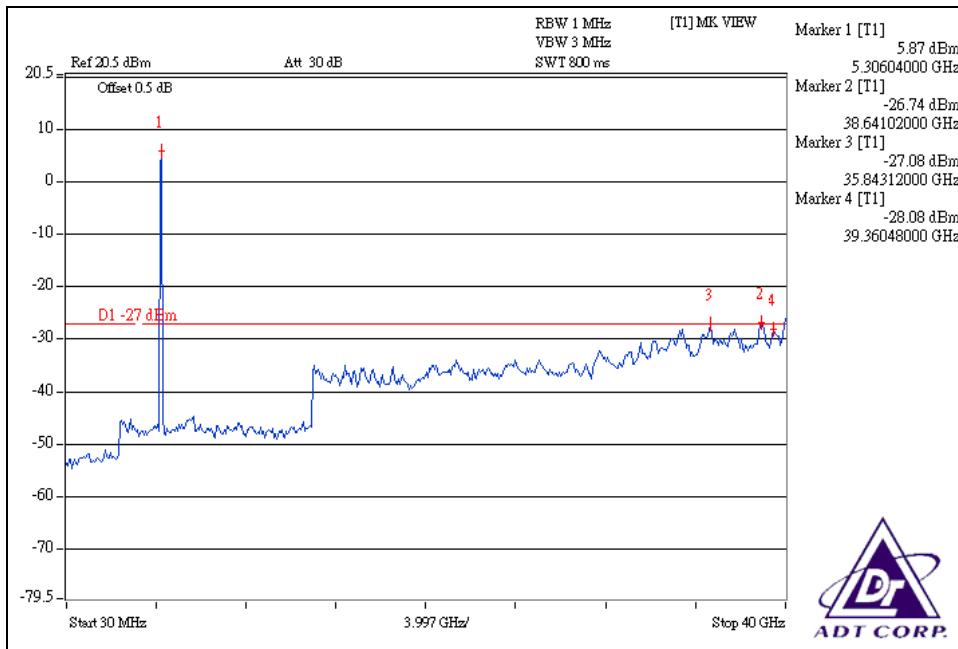


**For chain (0):**

**CH1**

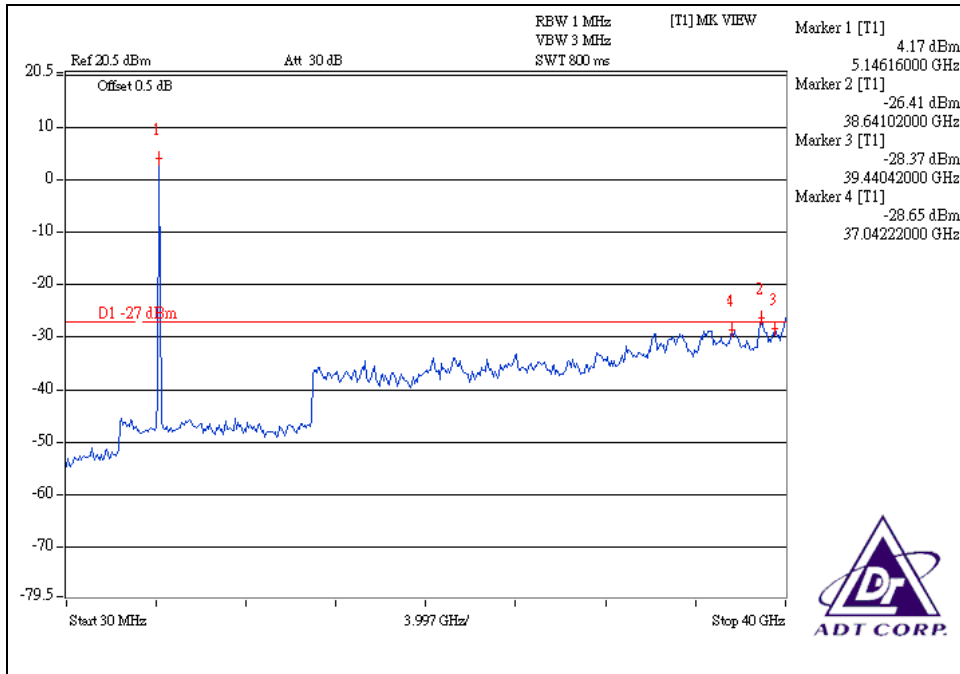


**CH4**

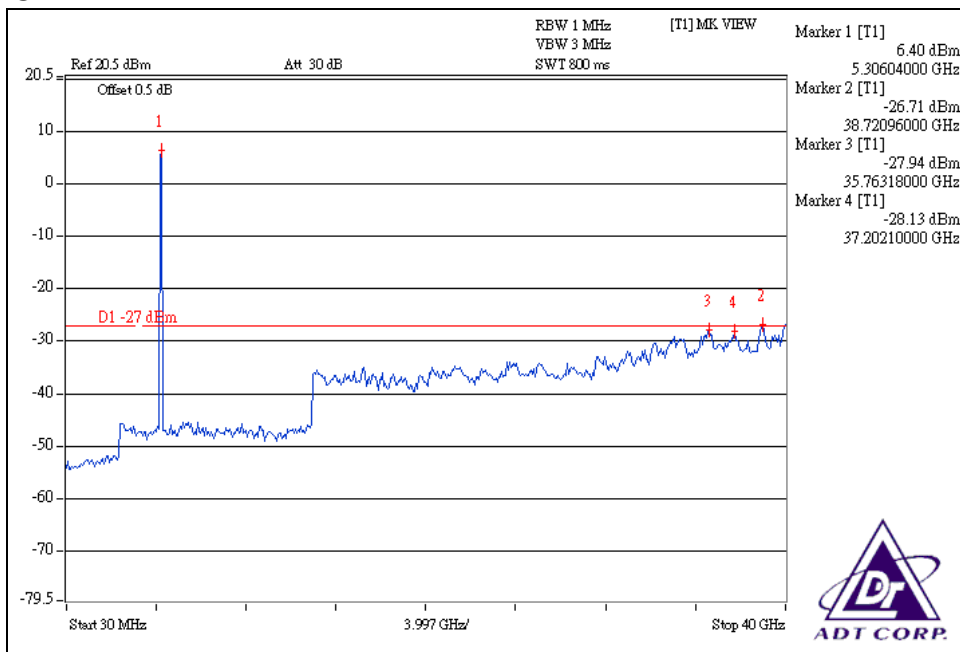


### For chain (1):

#### CH1



#### CH4



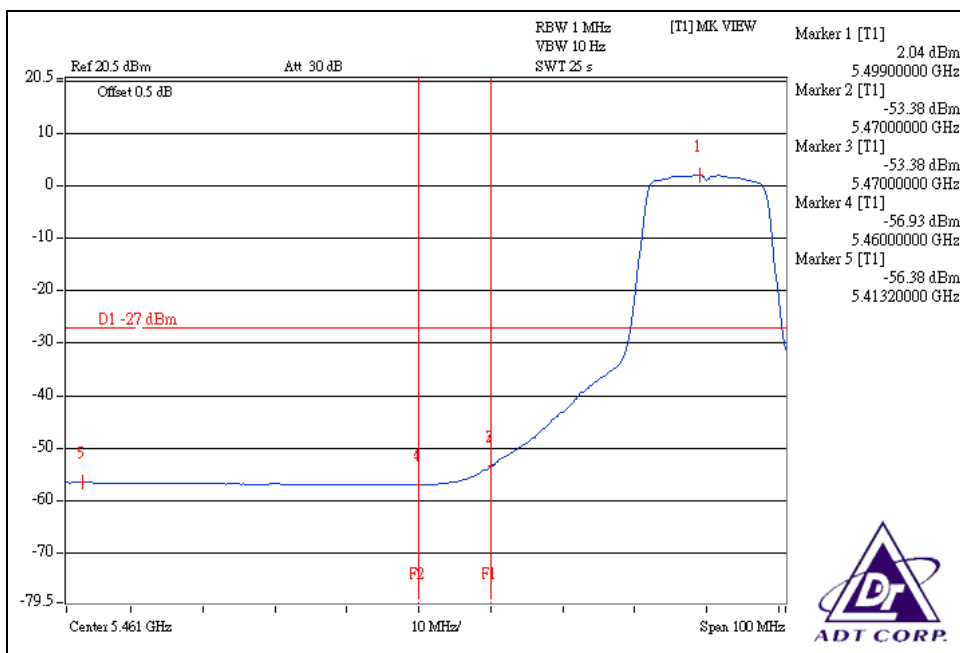
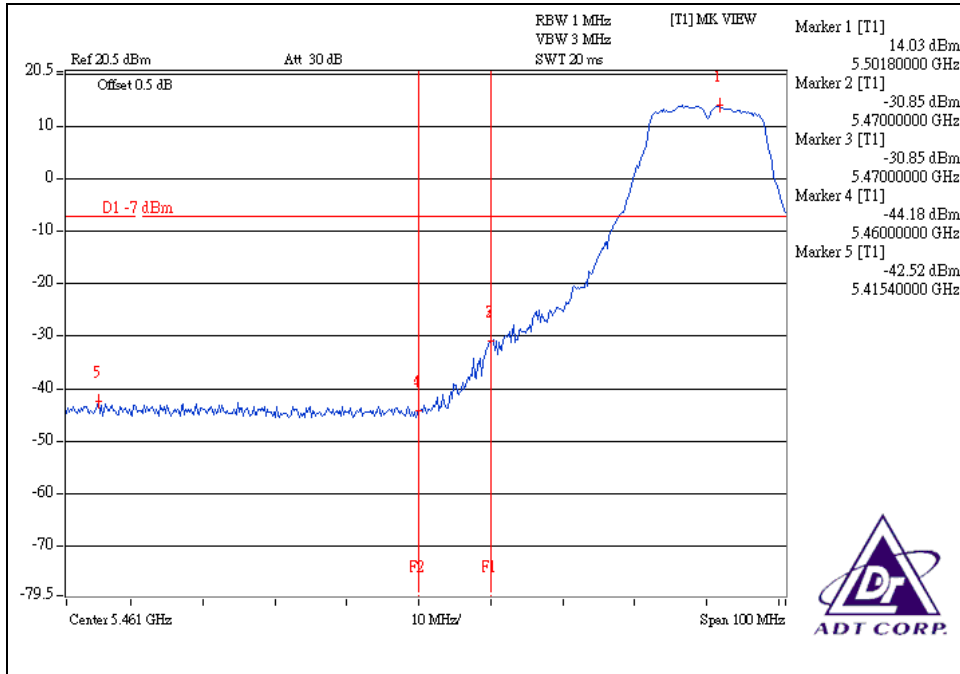


For 5.47 to 5.725GHz band:

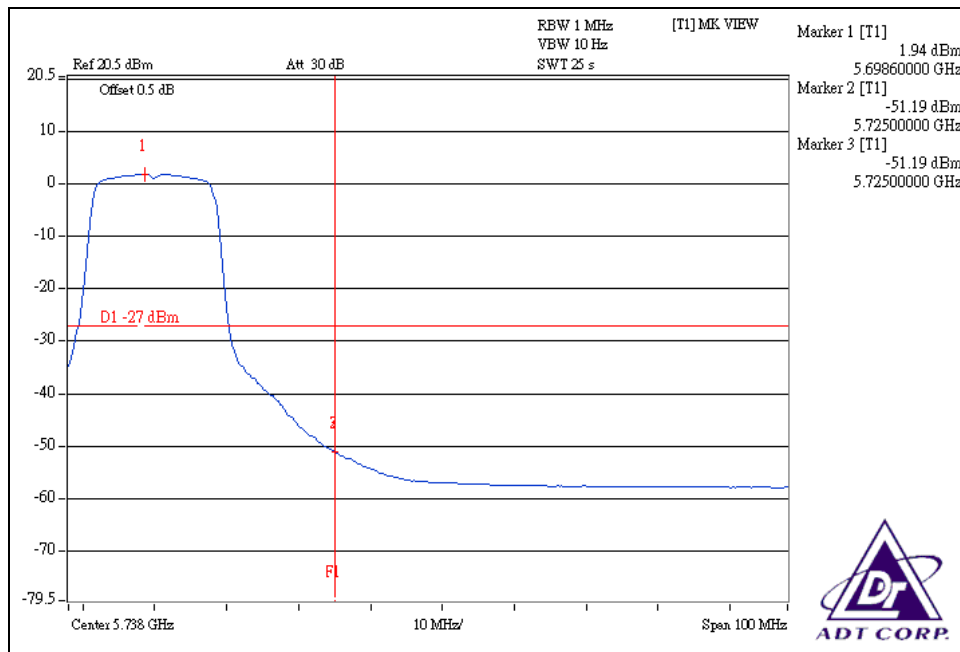
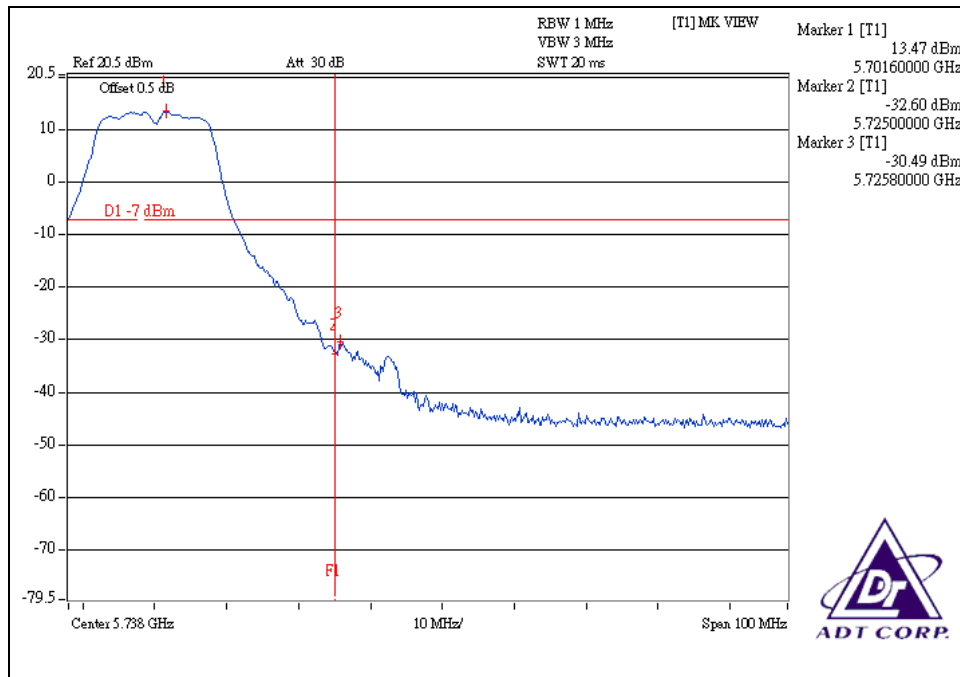
The spectrum plots (Peak RBW=1MHz, VBW=3MHz; Average RBW=1MHz, VBW=10Hz) are attached on the following pages.

## 802.11a OFDM modulation

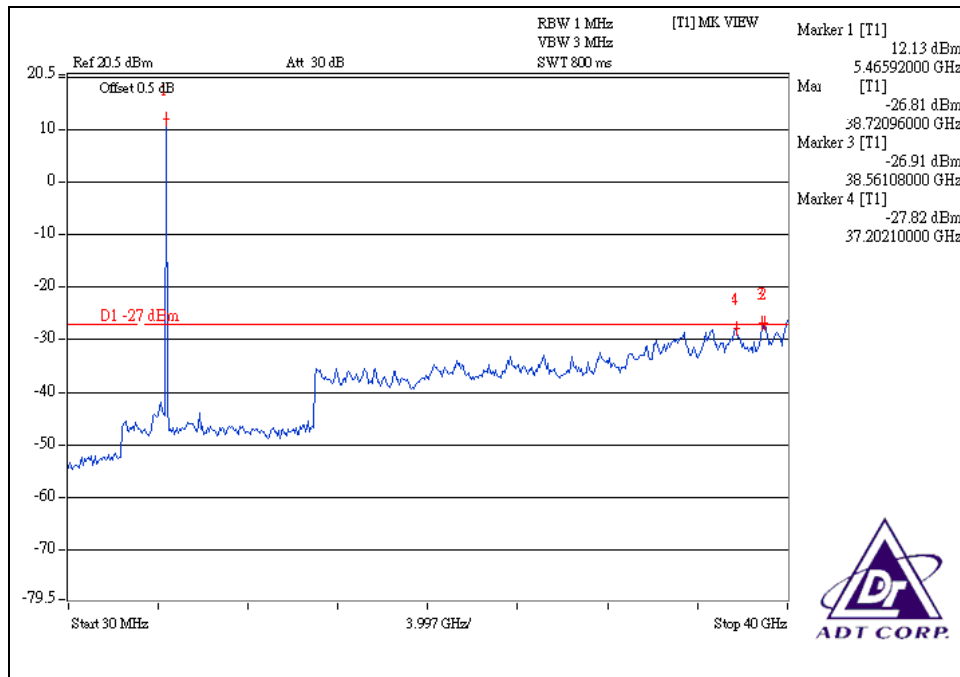
### CH 9



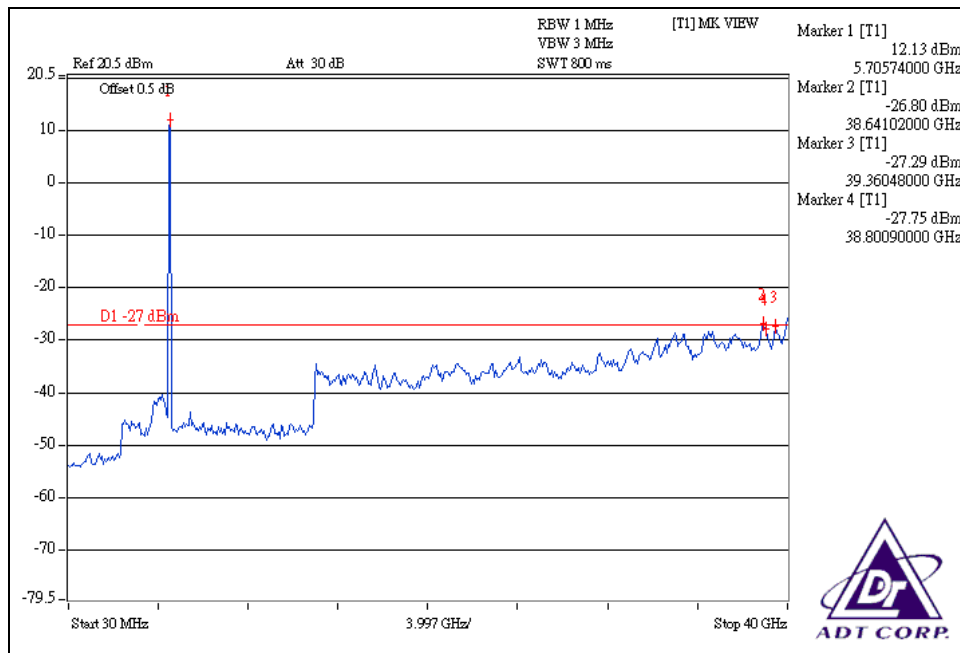
### CH 19



### CH 9



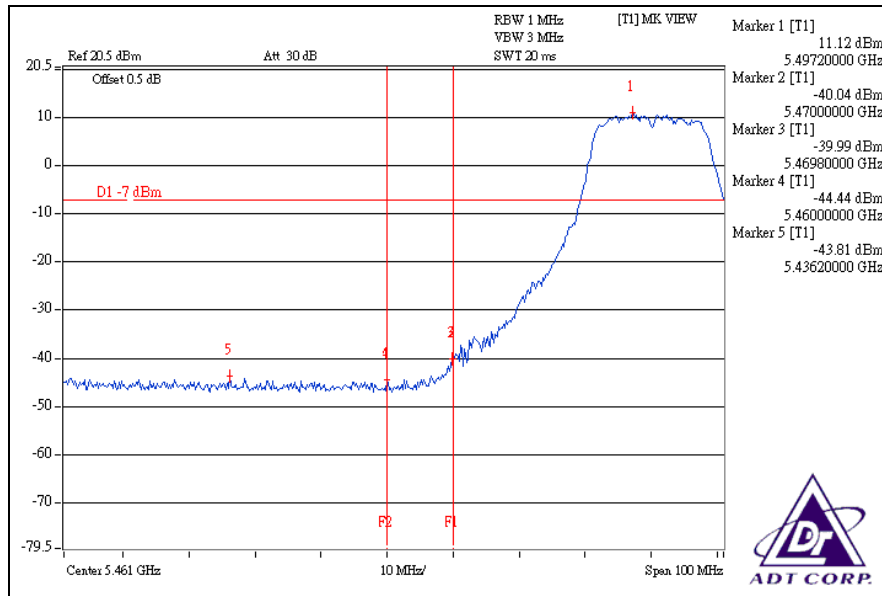
### CH 19



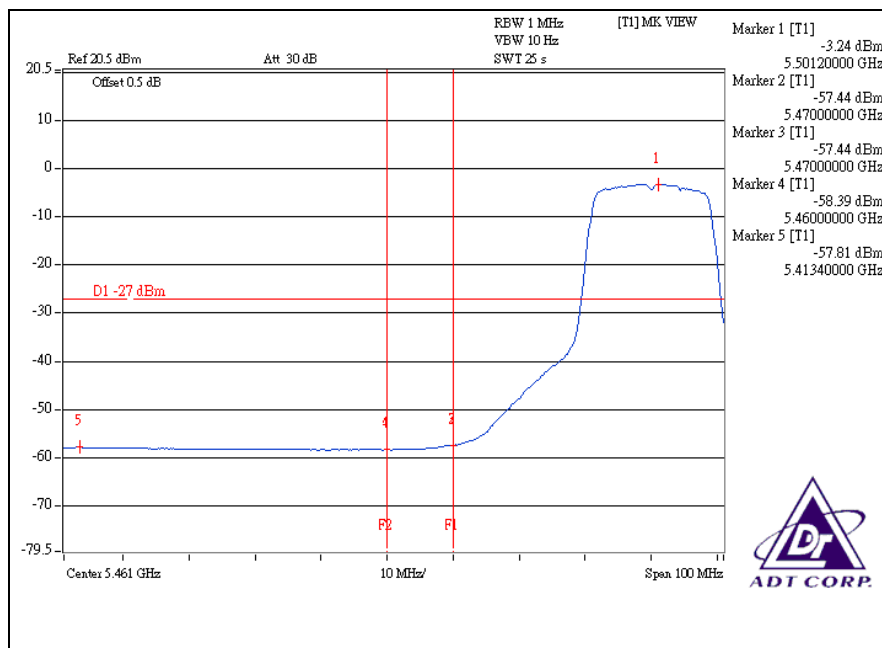
## DRAFT 802.11n (20MHz) OFDM MODULATION:

For chain (0):

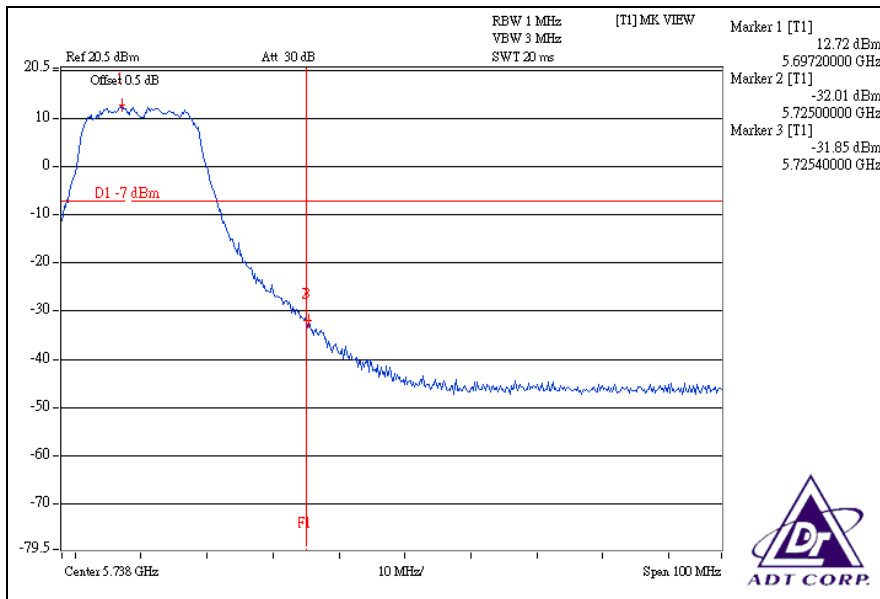
CH9



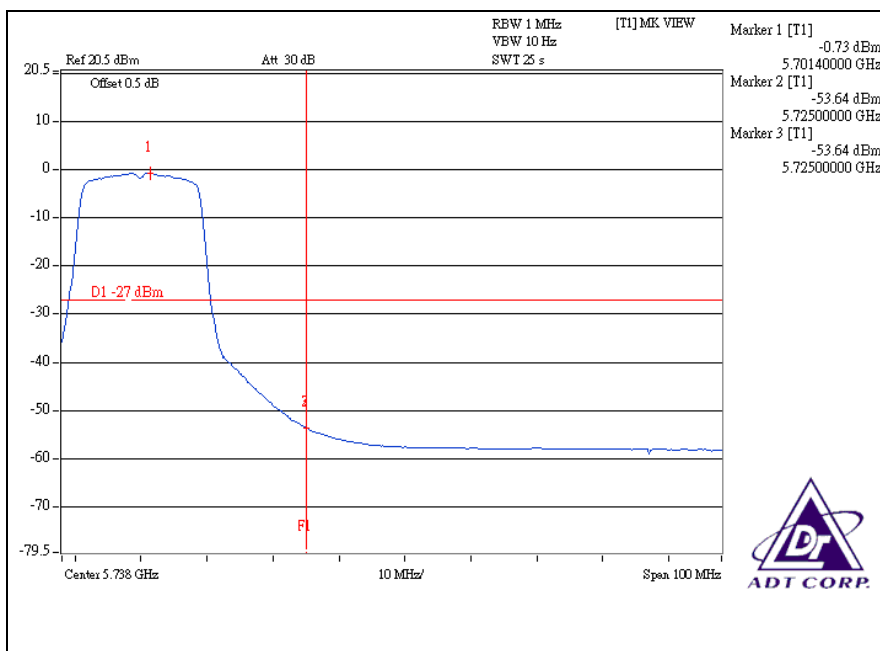
CH9



### CH19



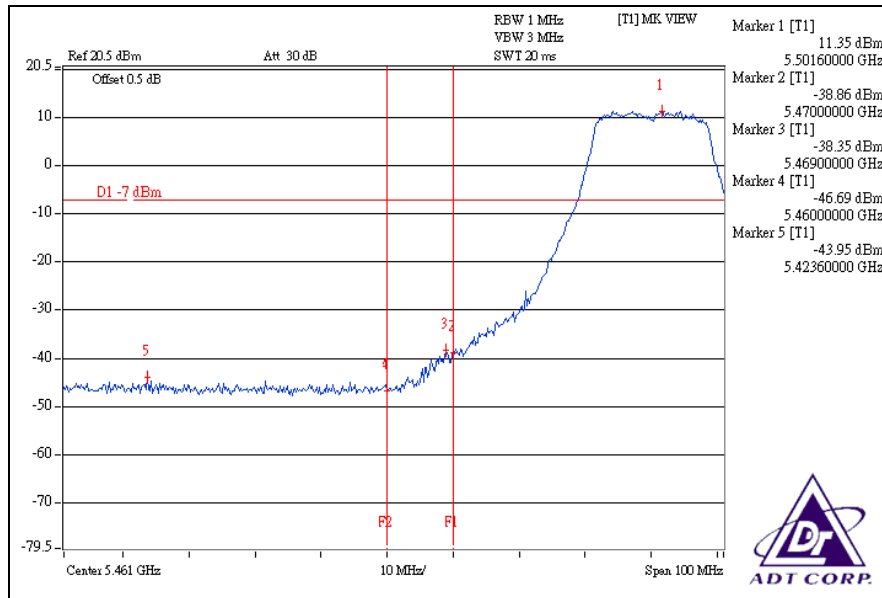
### CH19



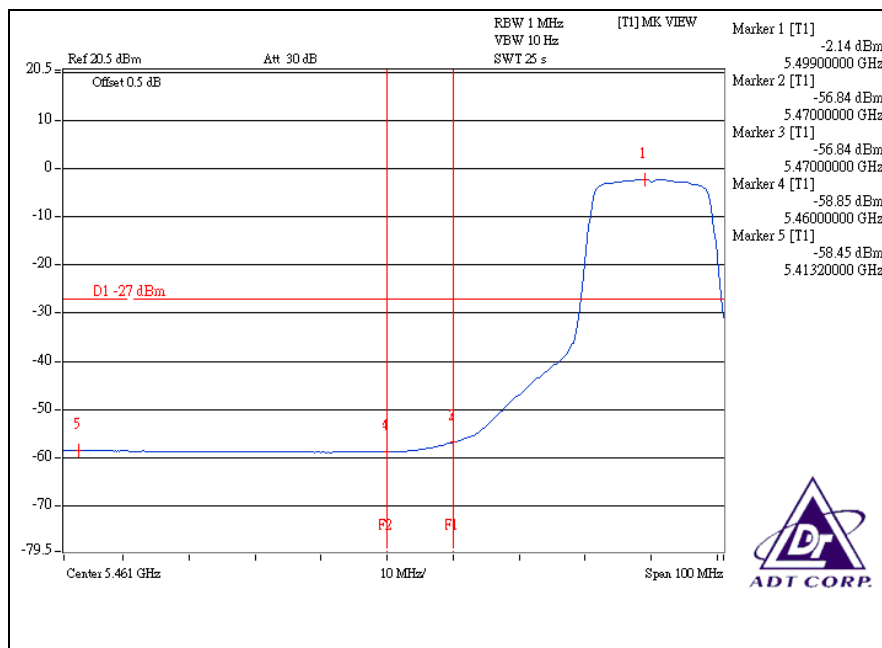


### For chain (1):

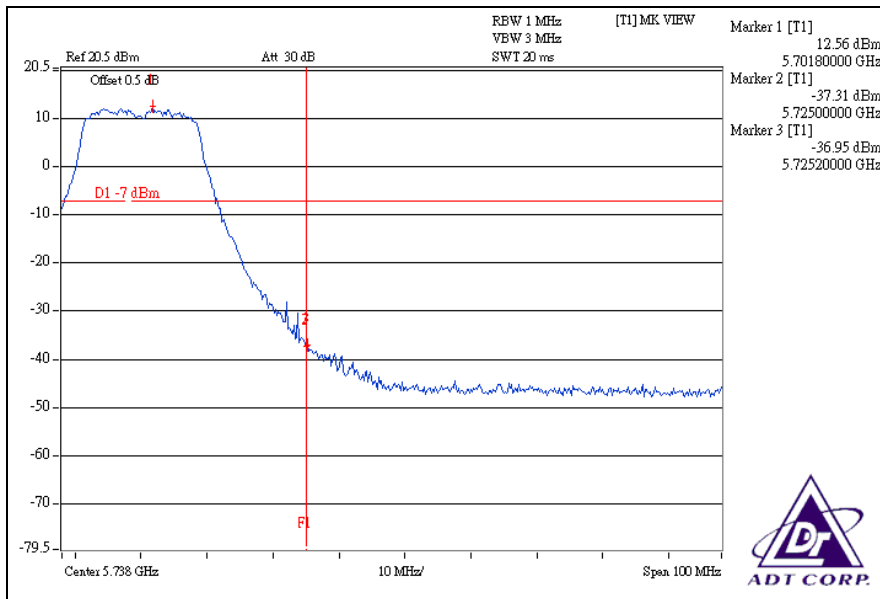
#### CH9



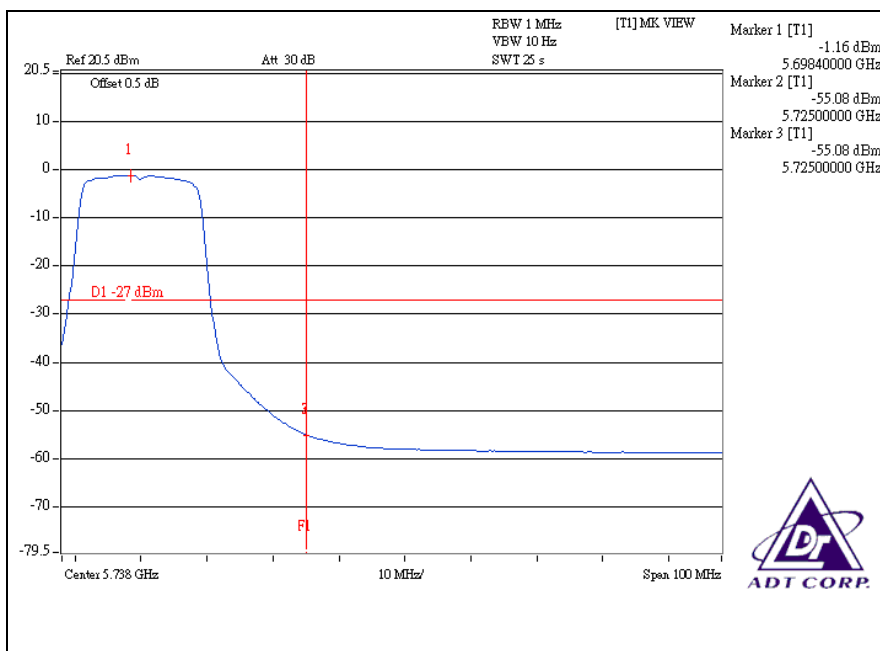
#### CH9



### CH19

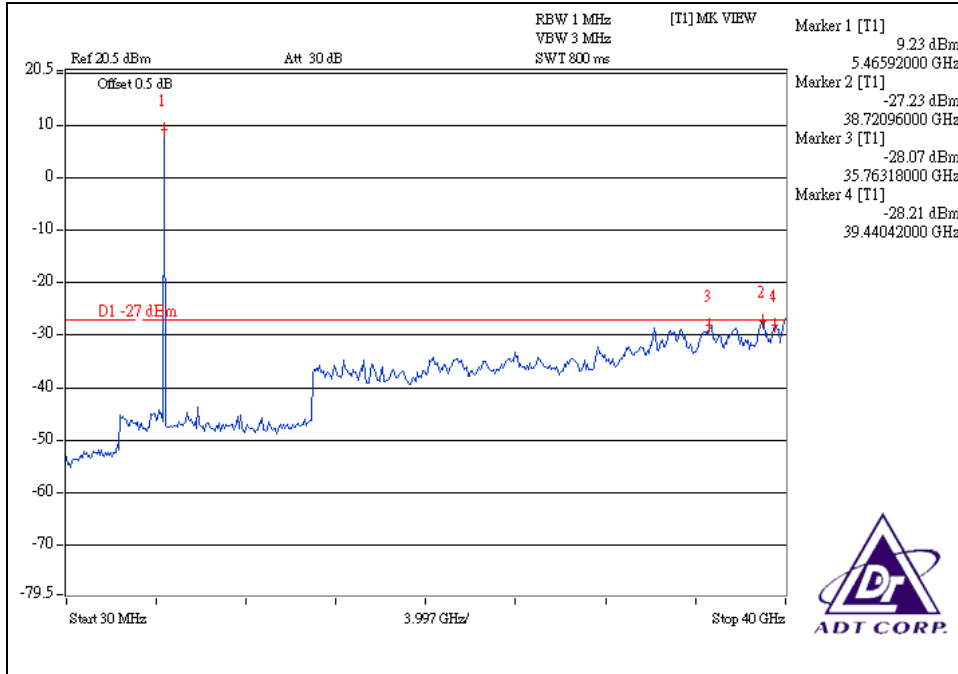


### CH19

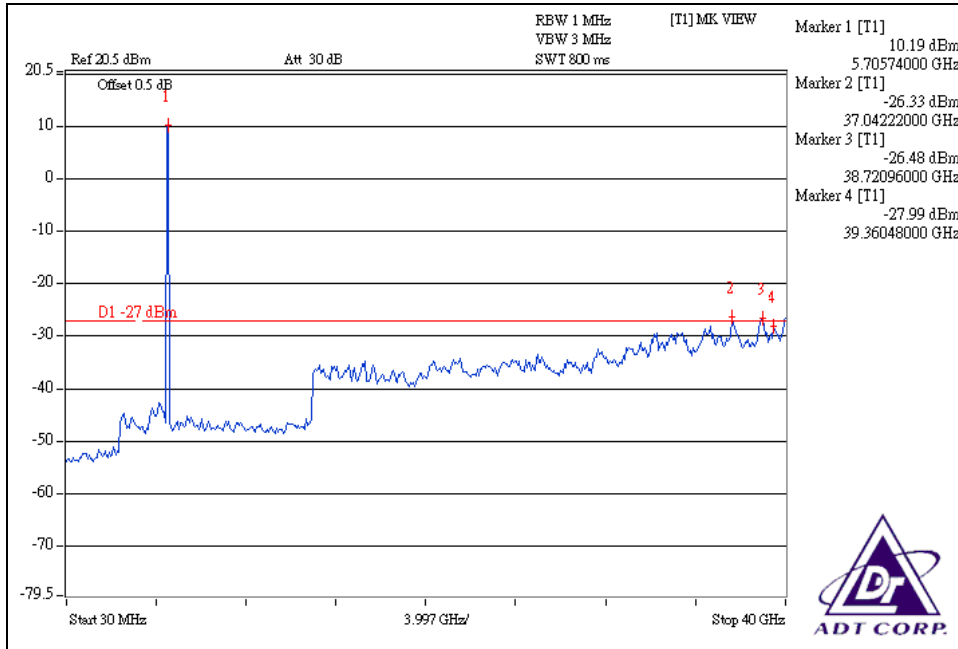


**For chain (0):**

**CH9**

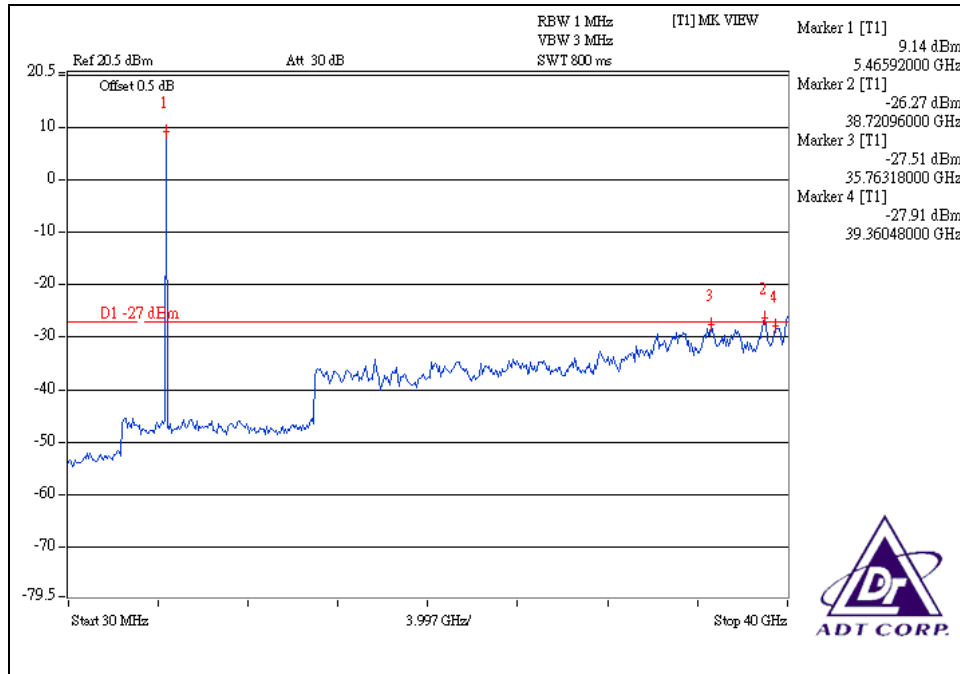


**CH19**

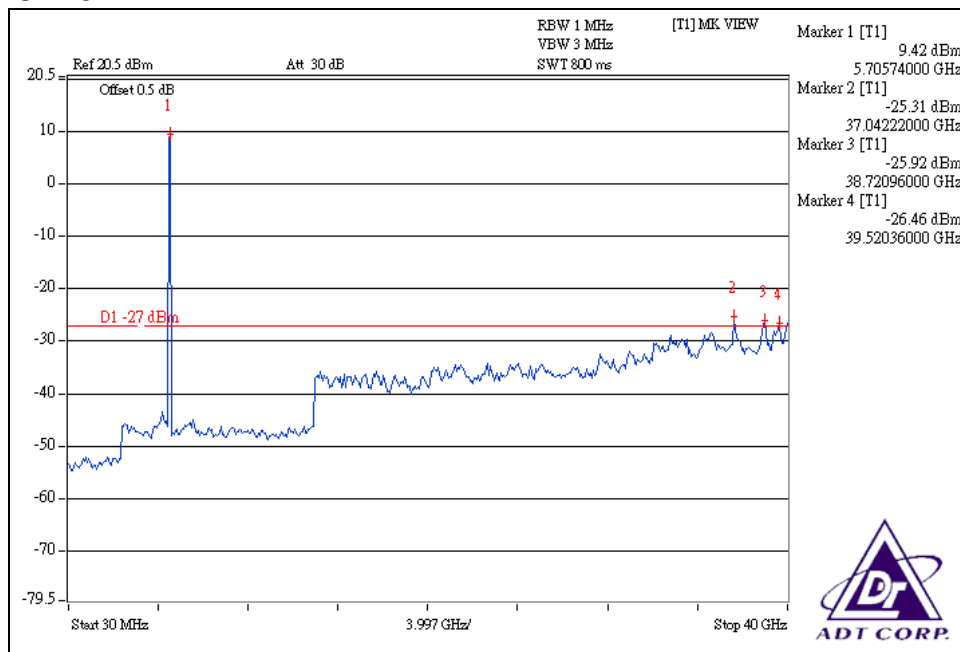


**For chain (1):**

**CH9**



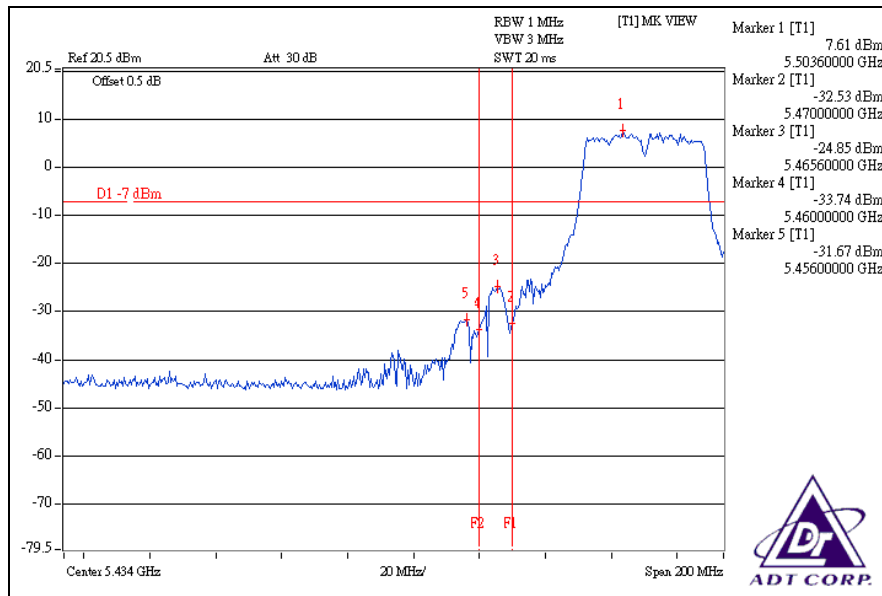
**CH19**



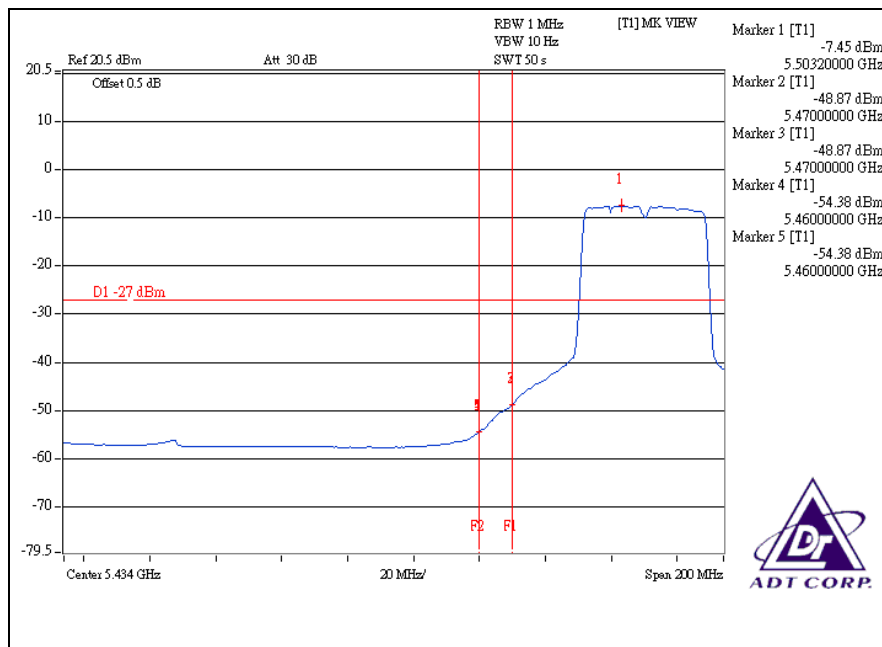
## DRAFT 802.11n (40MHz) OFDM MODULATION:

For chain (0):

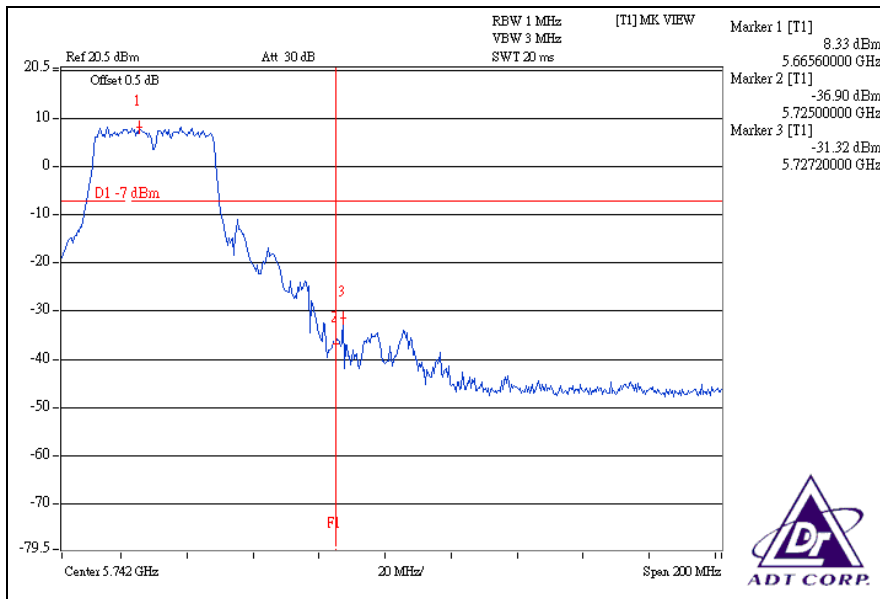
CH5



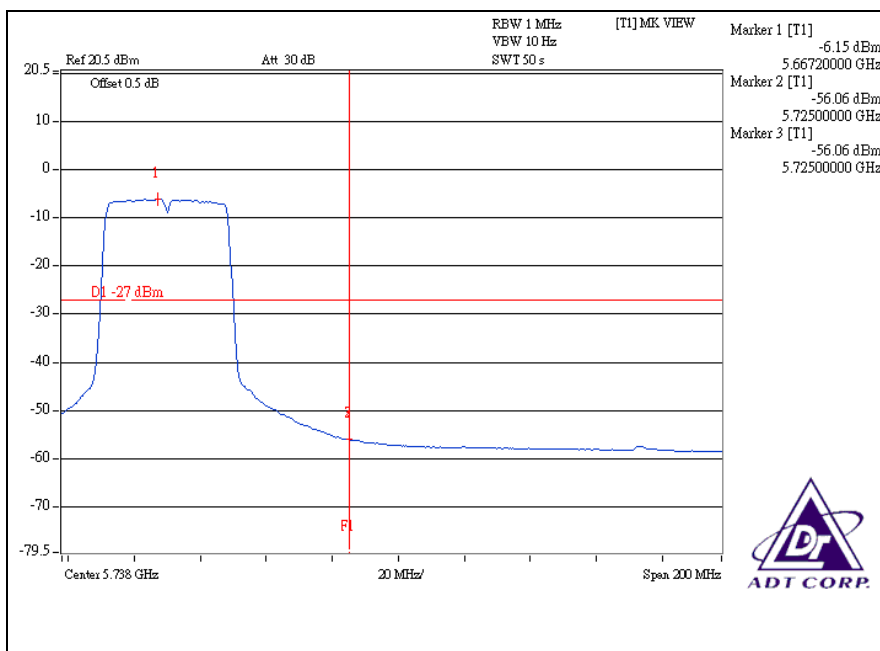
CH5



### CH9

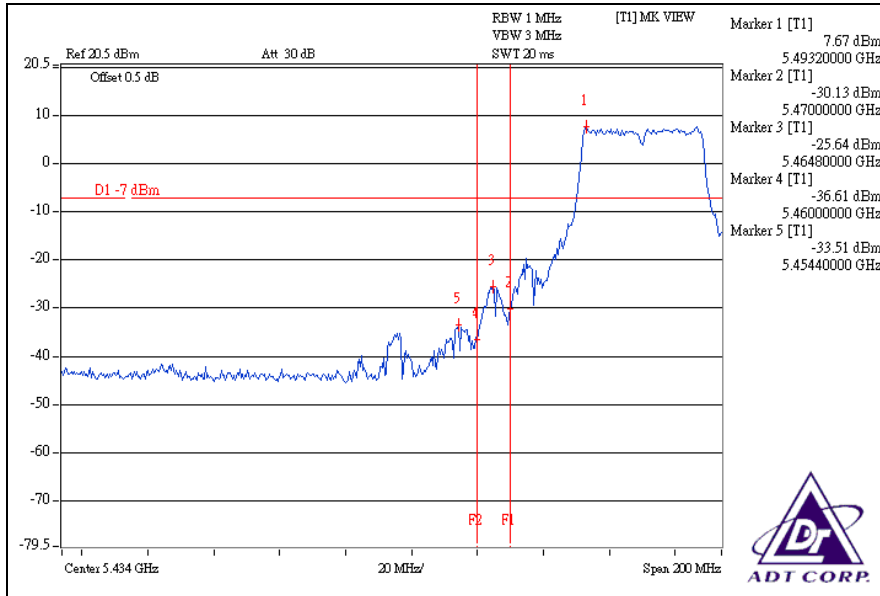


### CH9

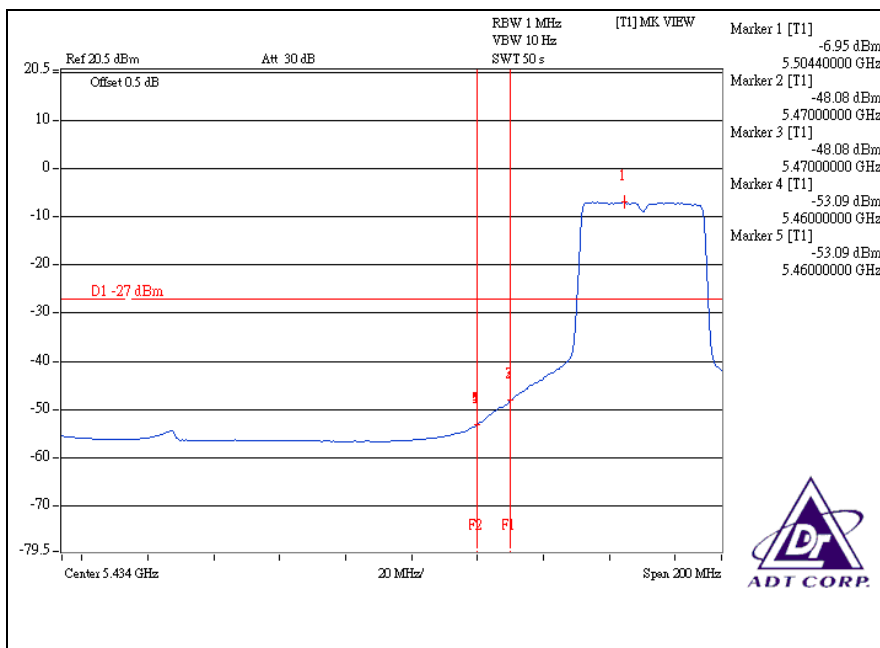


### For chain (1):

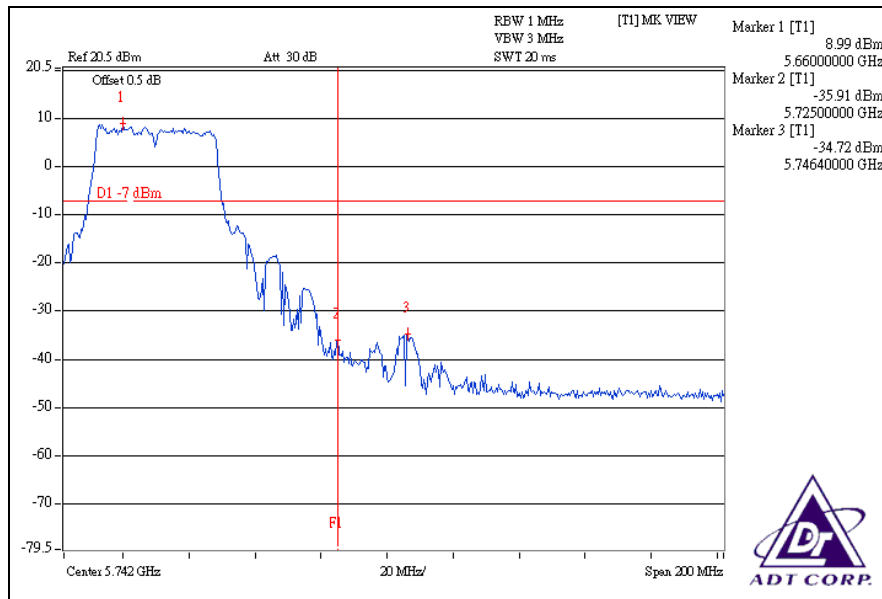
#### CH5



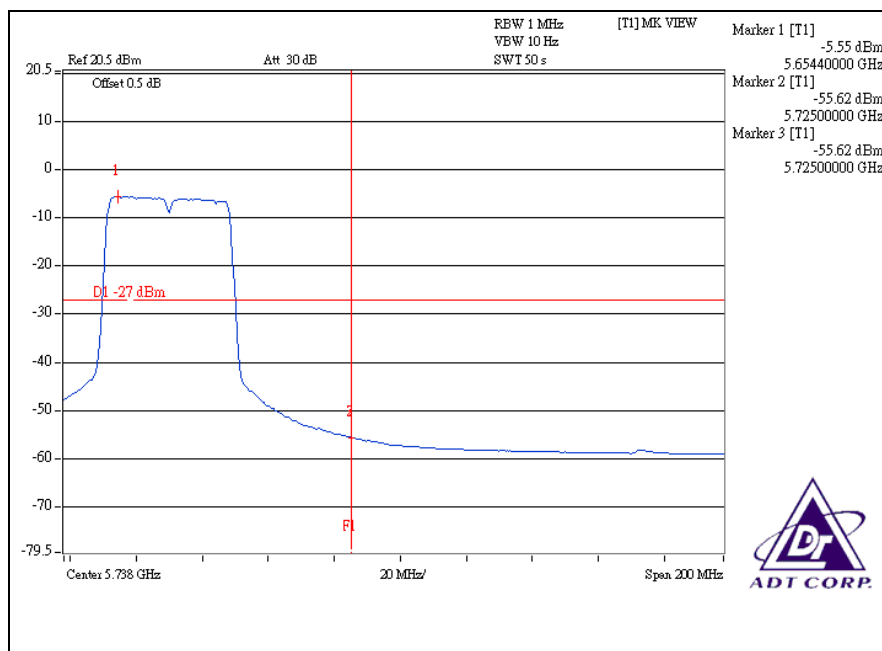
#### CH5



### CH9



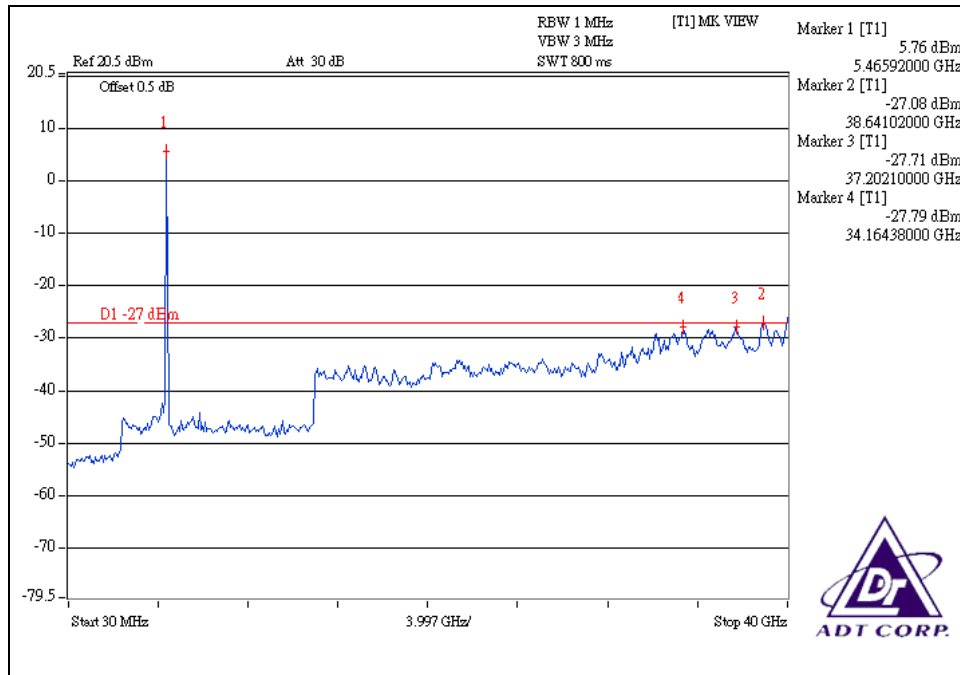
### CH9



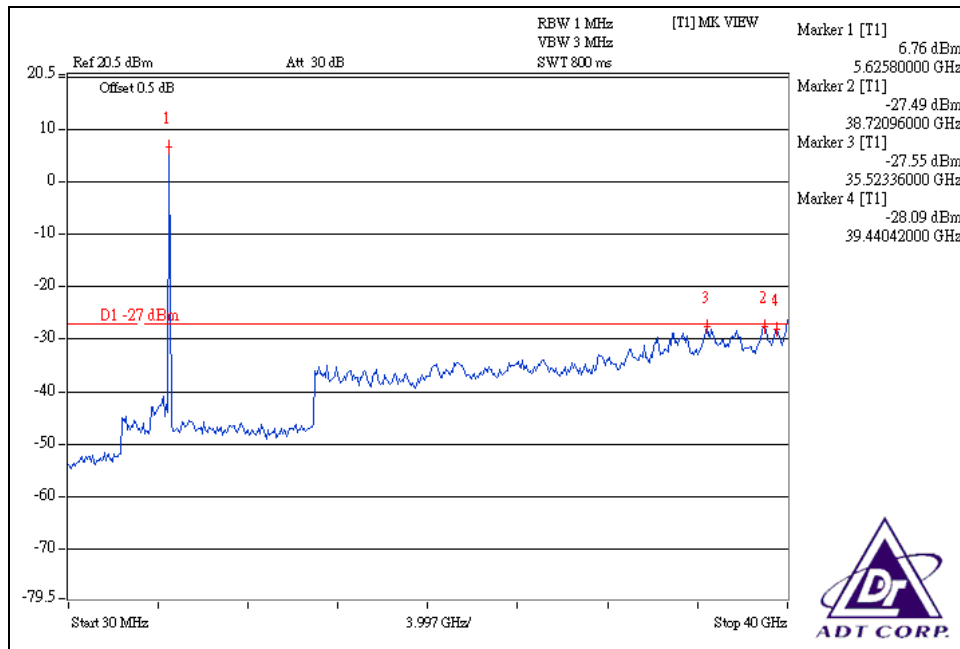


**For chain (0):**

**CH5**

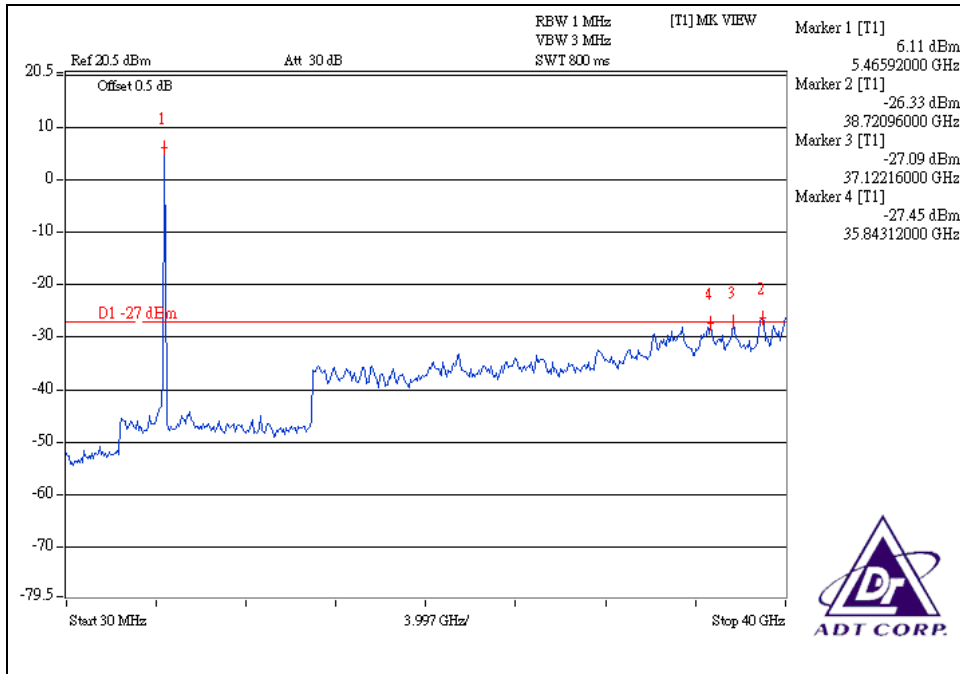


**CH9**

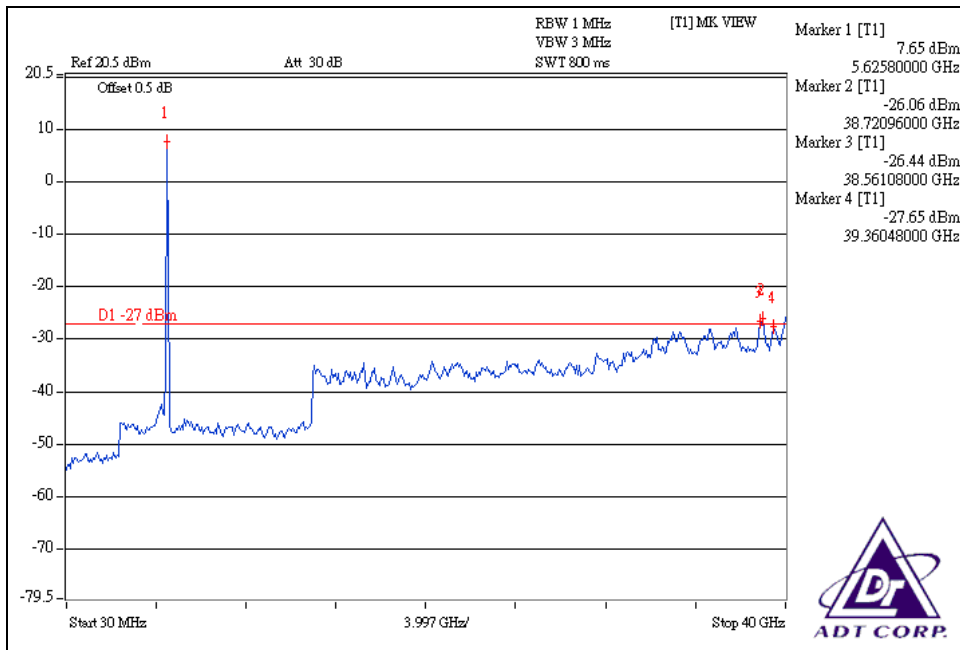


### For chain (1):

#### CH5



#### CH9



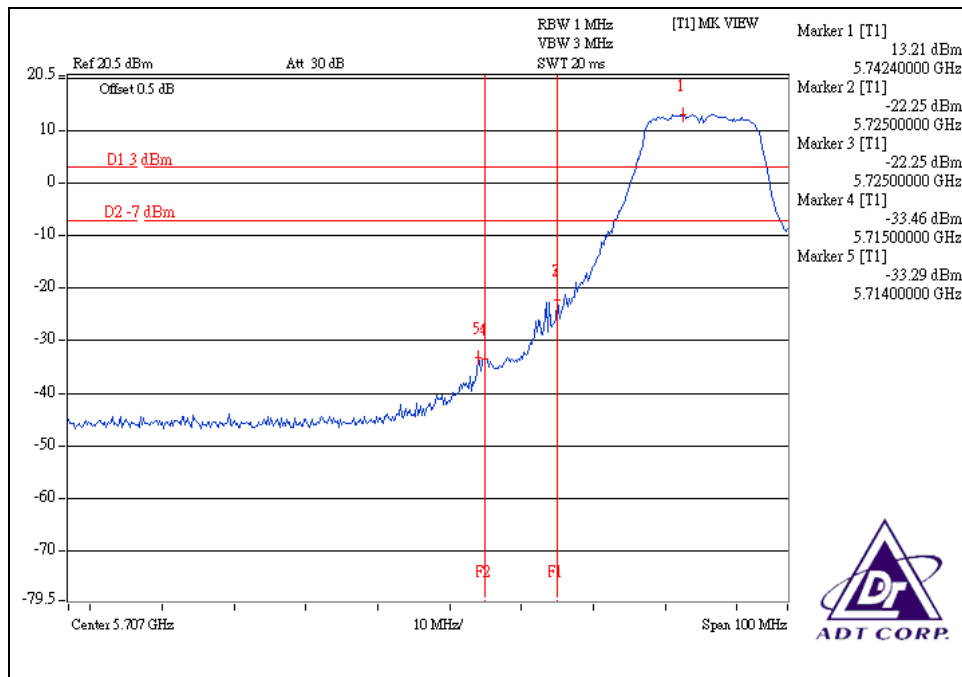


For 5.725 to 5.825GHz band:

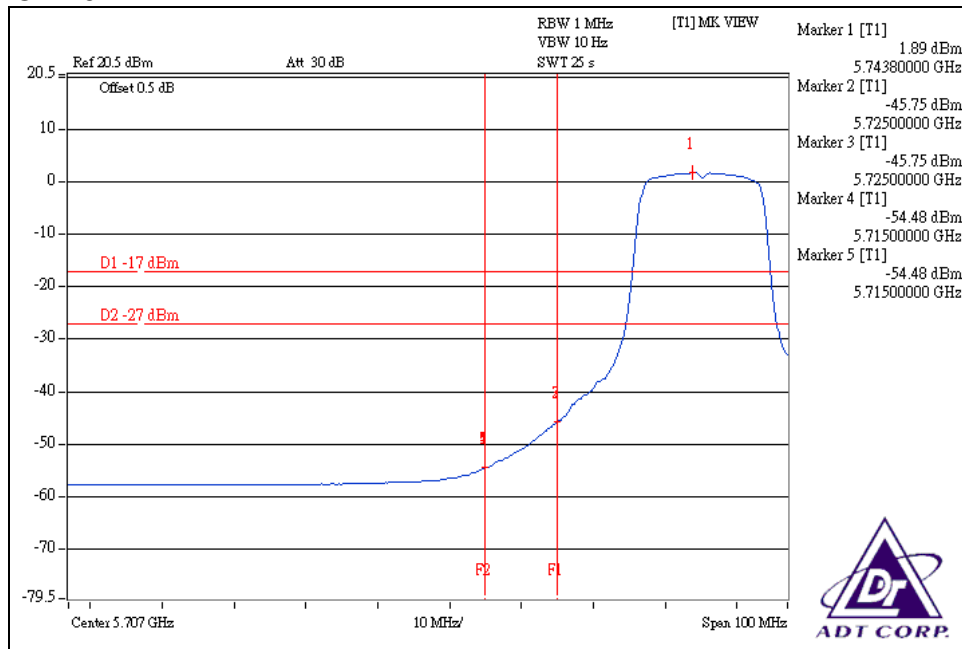
The spectrum plots (Peak RBW=1MHz, VBW=3MHz; Average RBW=1MHz, VBW=10Hz) are attached on the following pages.

## 802.11a OFDM modulation

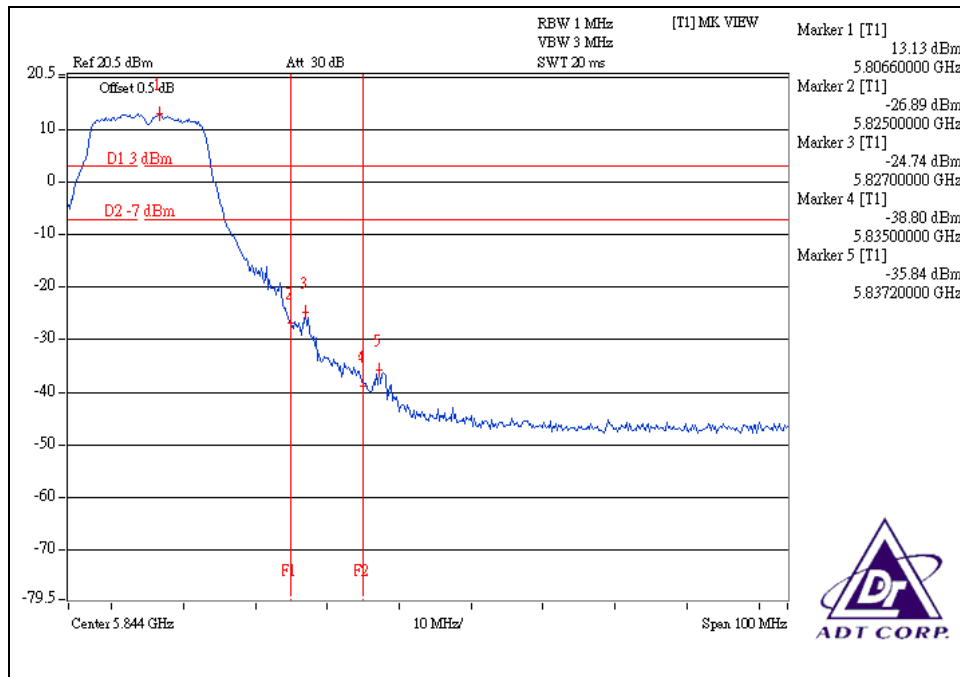
### CH 20



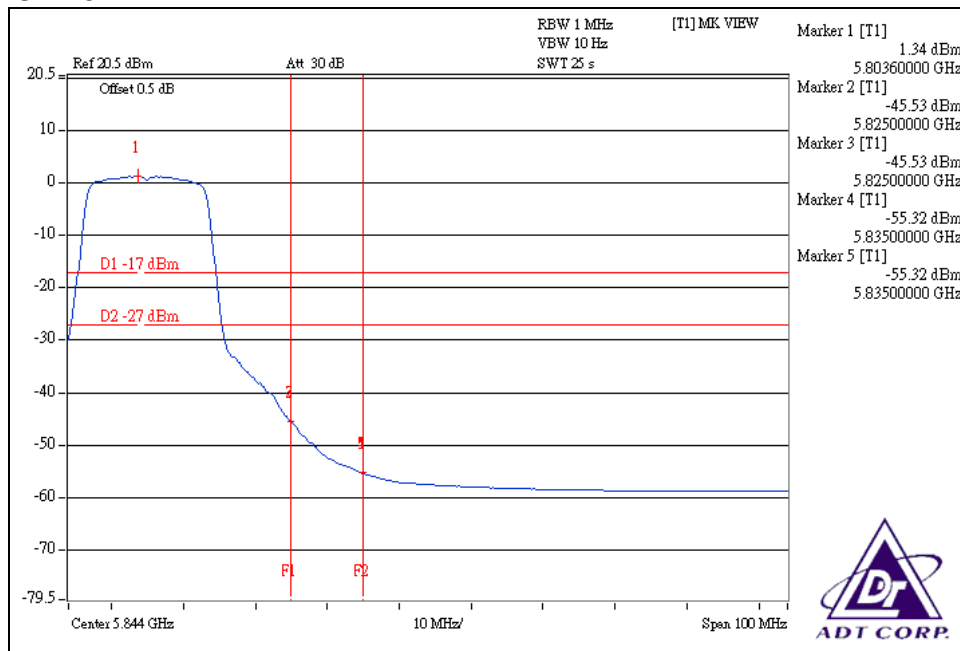
### CH 20



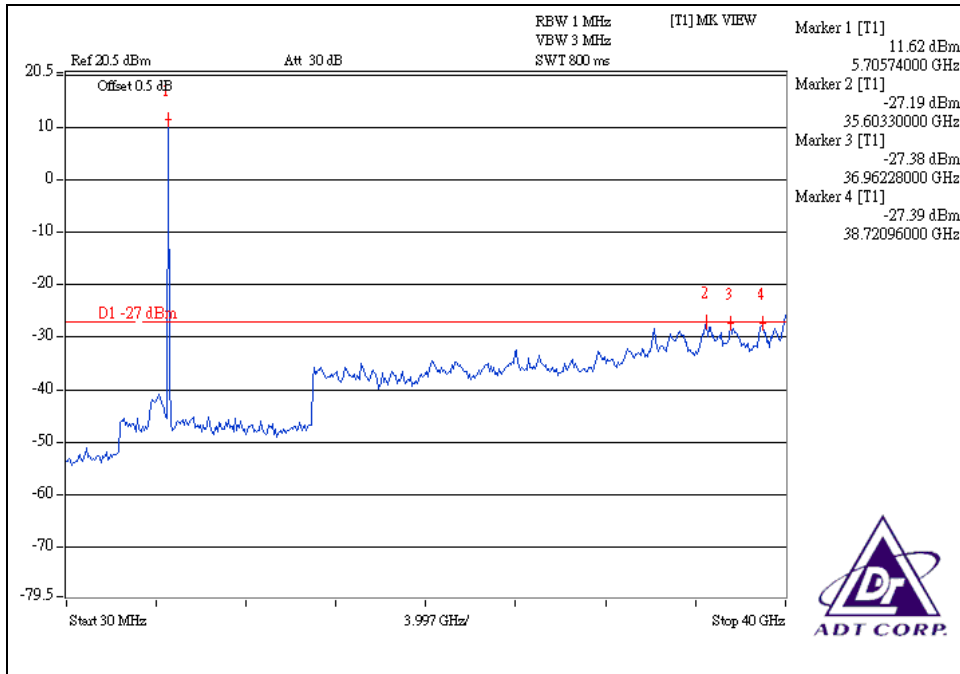
### CH 23



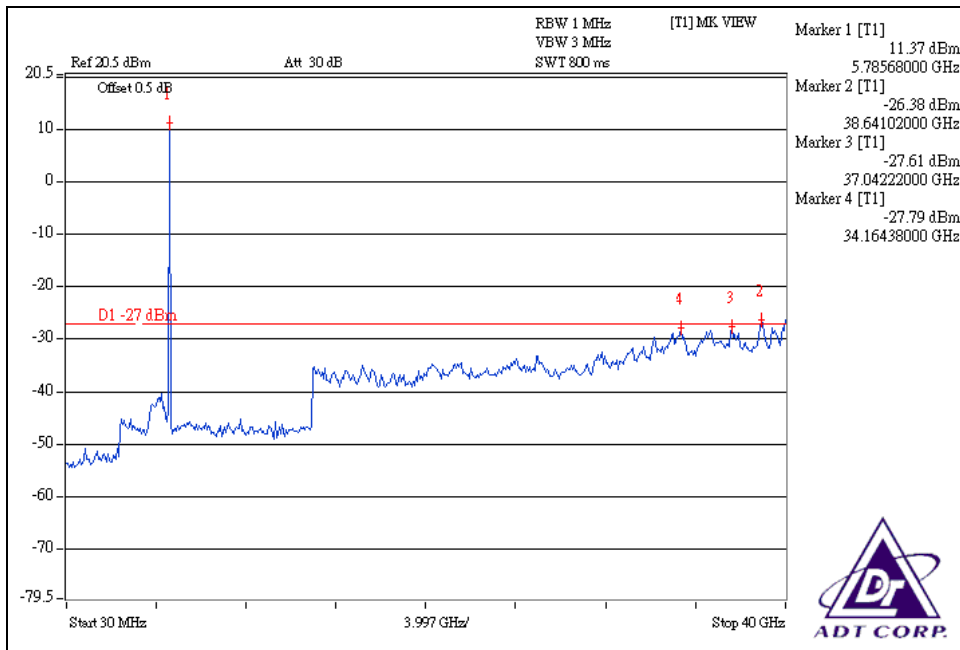
### CH 23



### CH 20



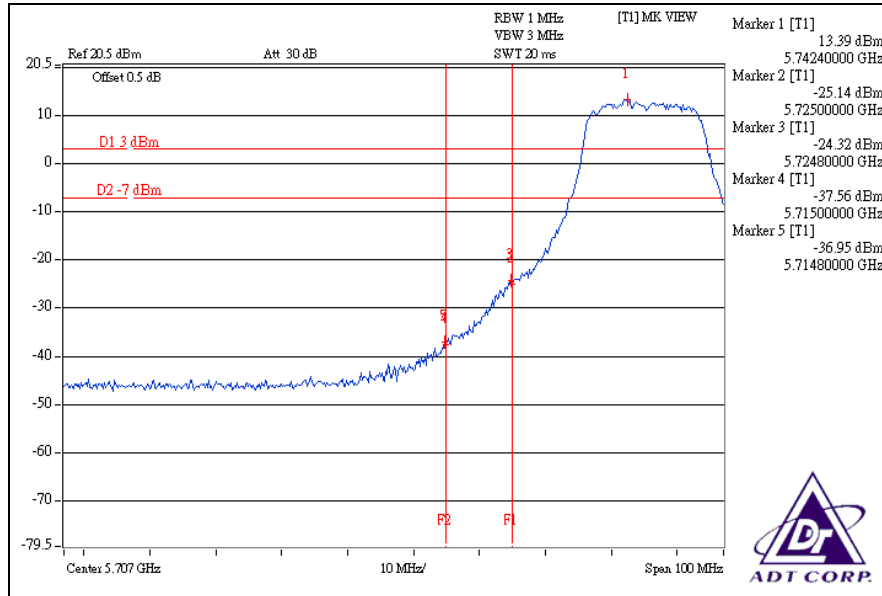
### CH 23



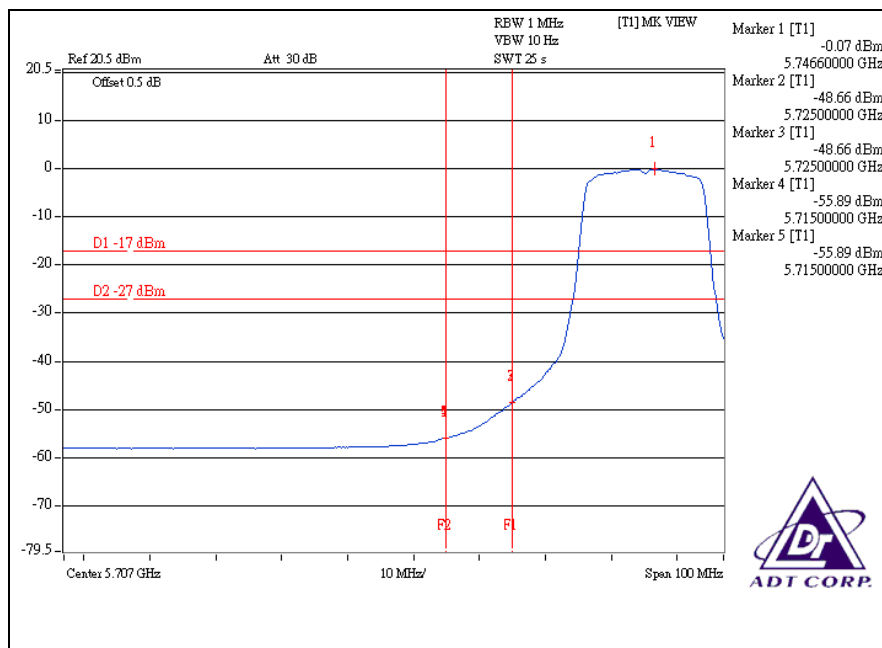
## DRAFT 802.11n (20MHz) OFDM MODULATION:

For chain (0):

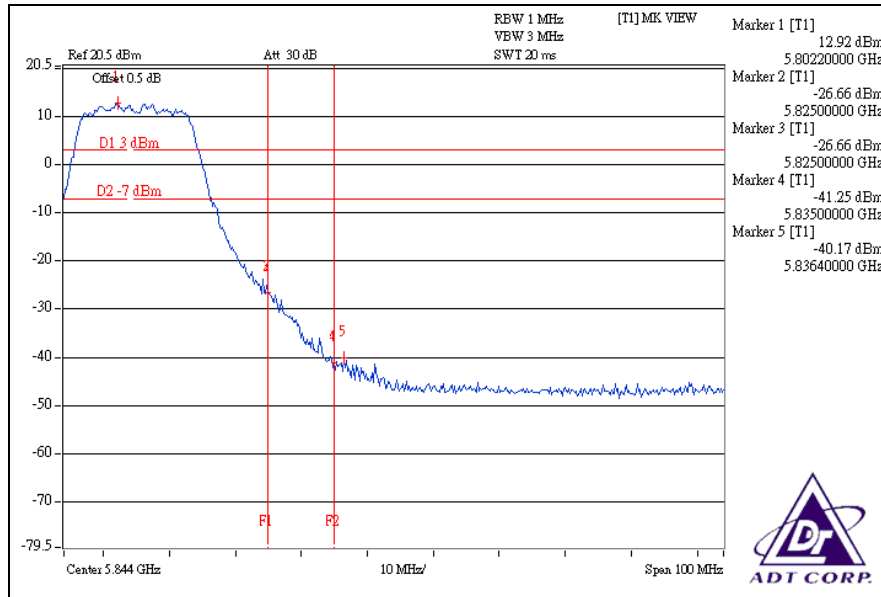
CH20



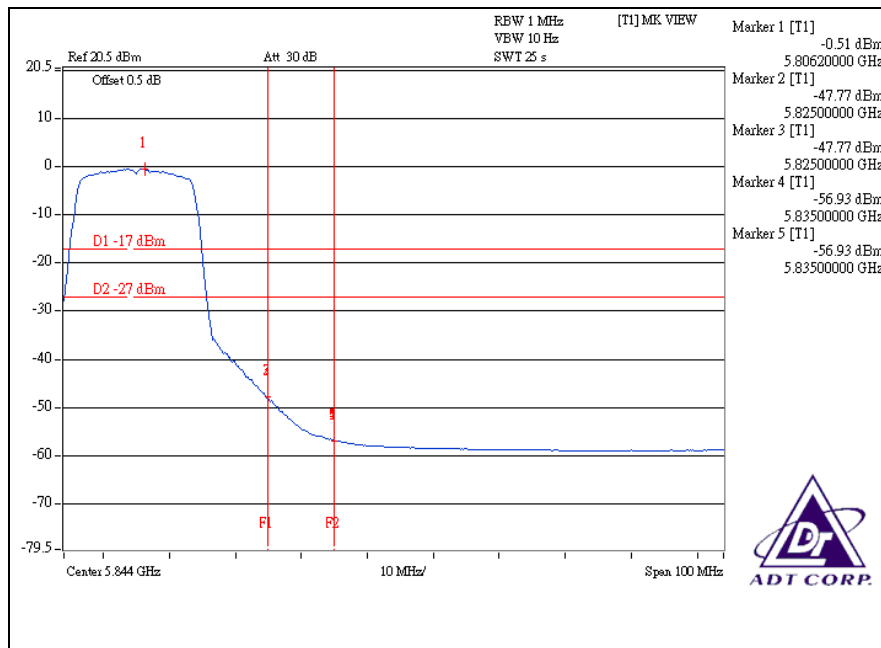
CH20



### CH23



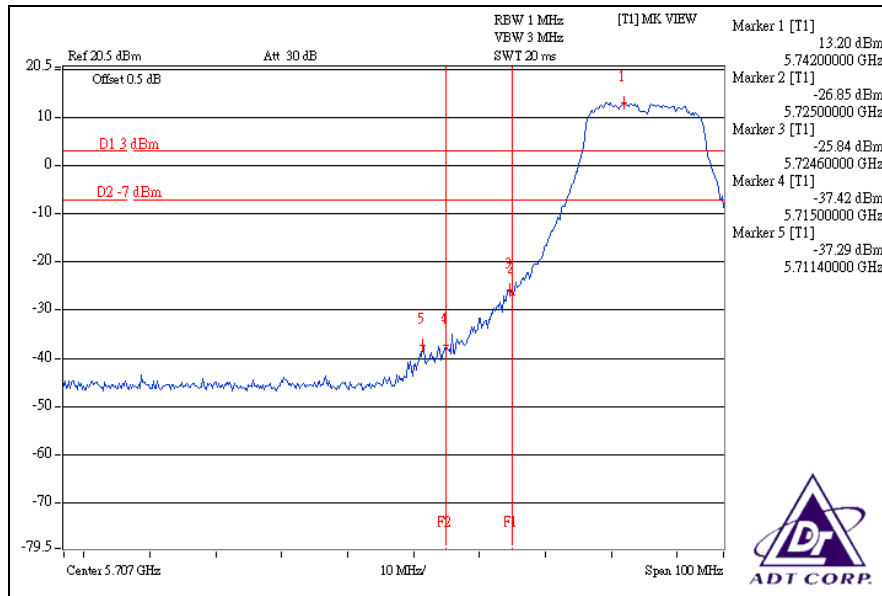
### CH23



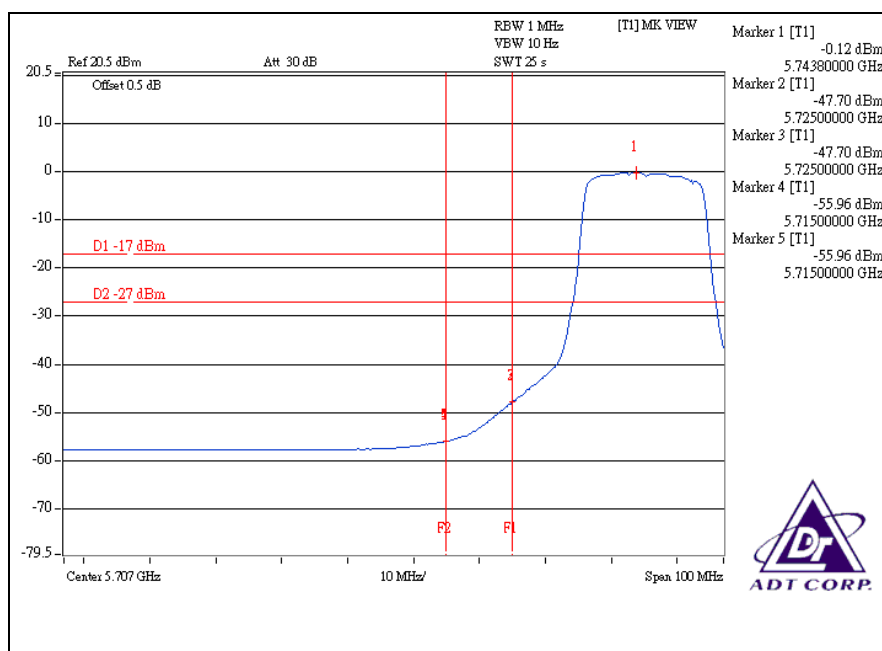


### For chain (1):

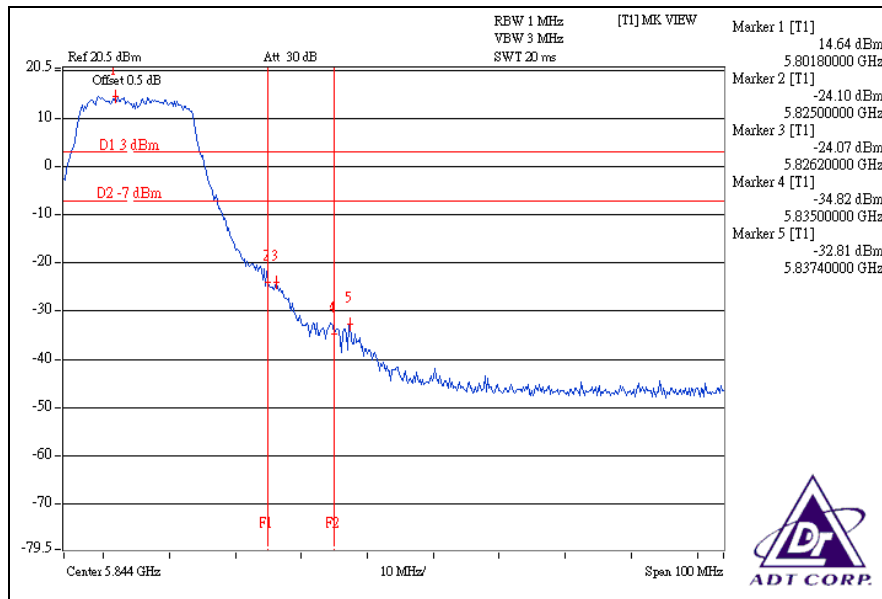
### CH20



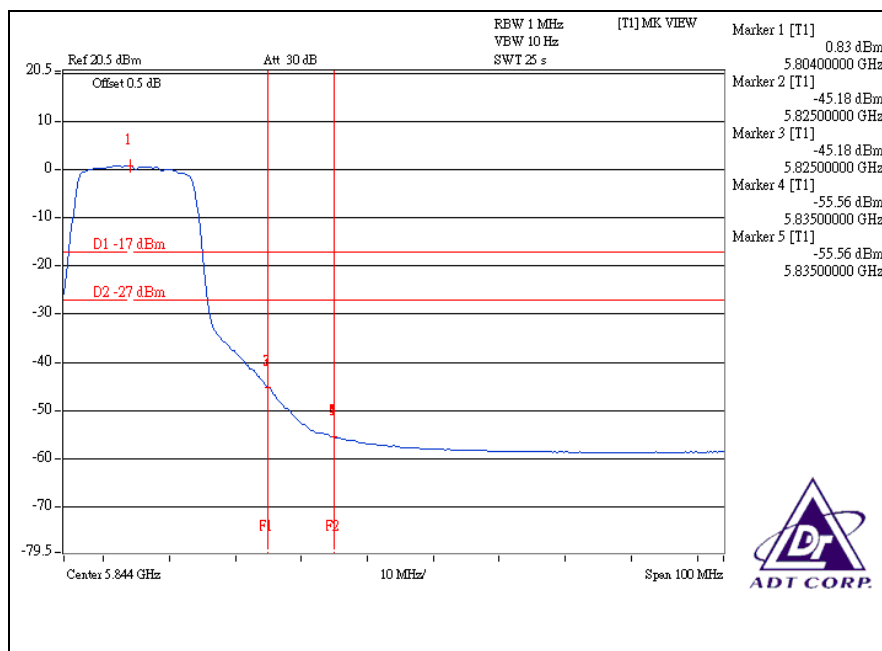
### CH20



### CH23

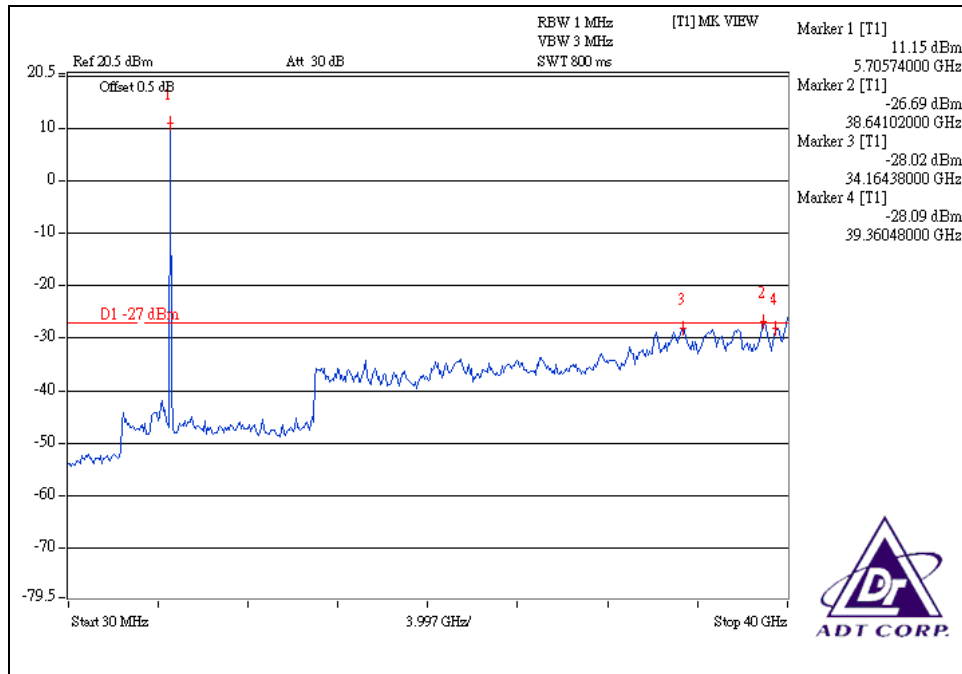


### CH23

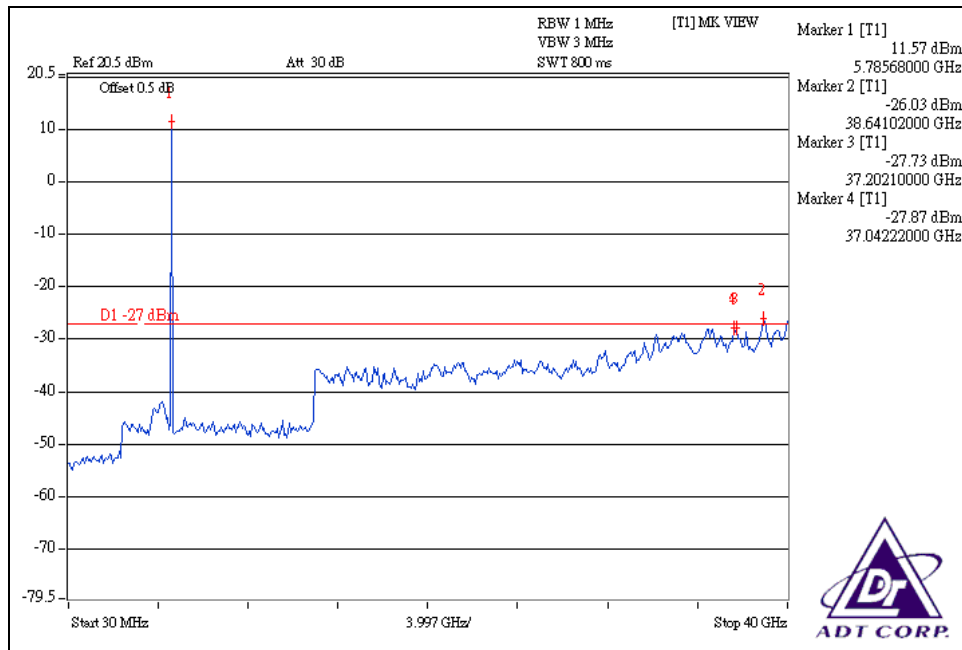


**For chain (0):**

**CH20**

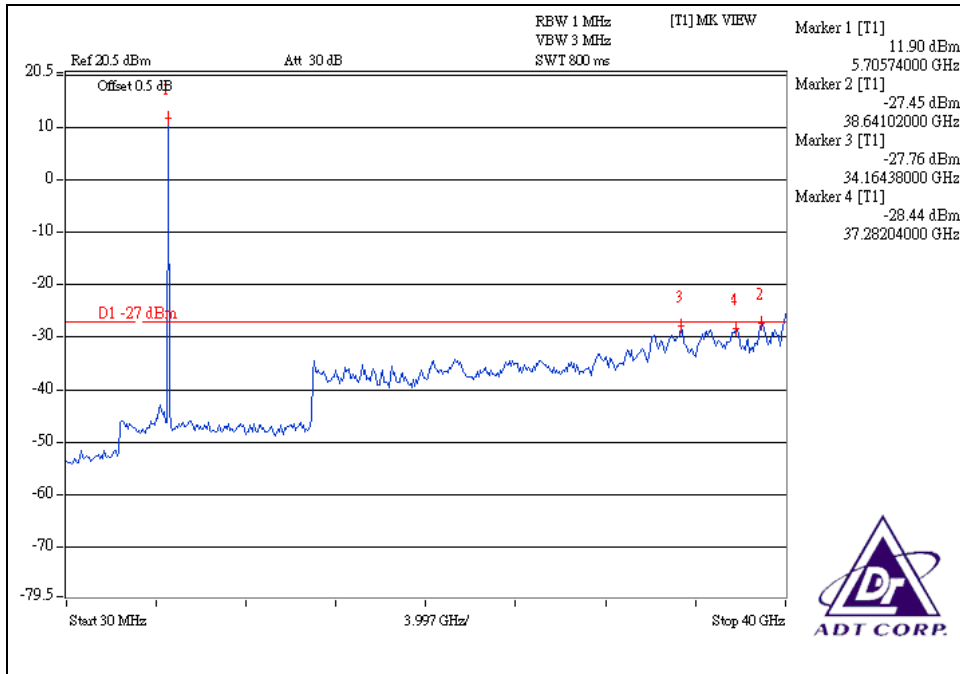


**CH23**

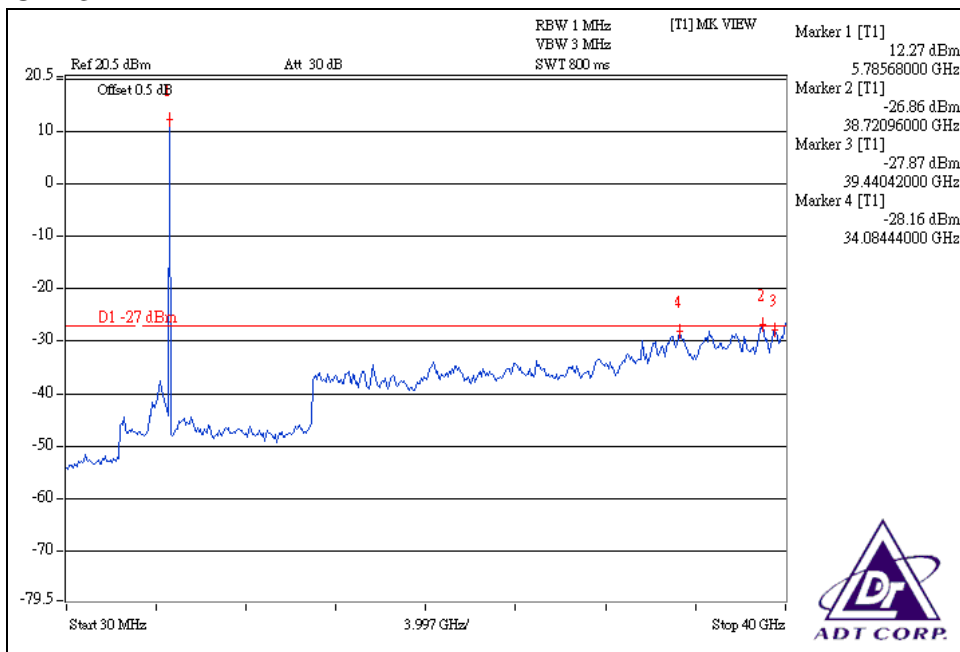


**For chain (1):**

**CH20**



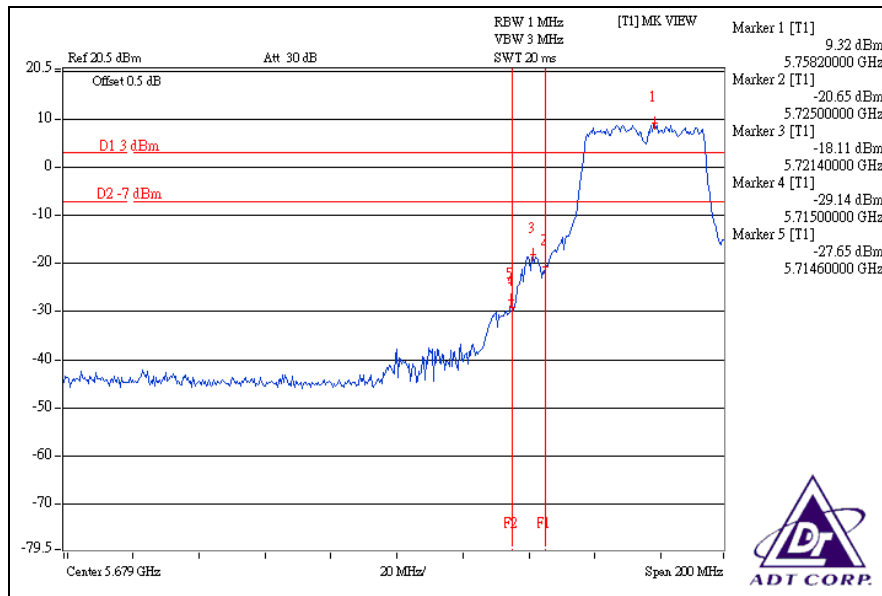
**CH23**



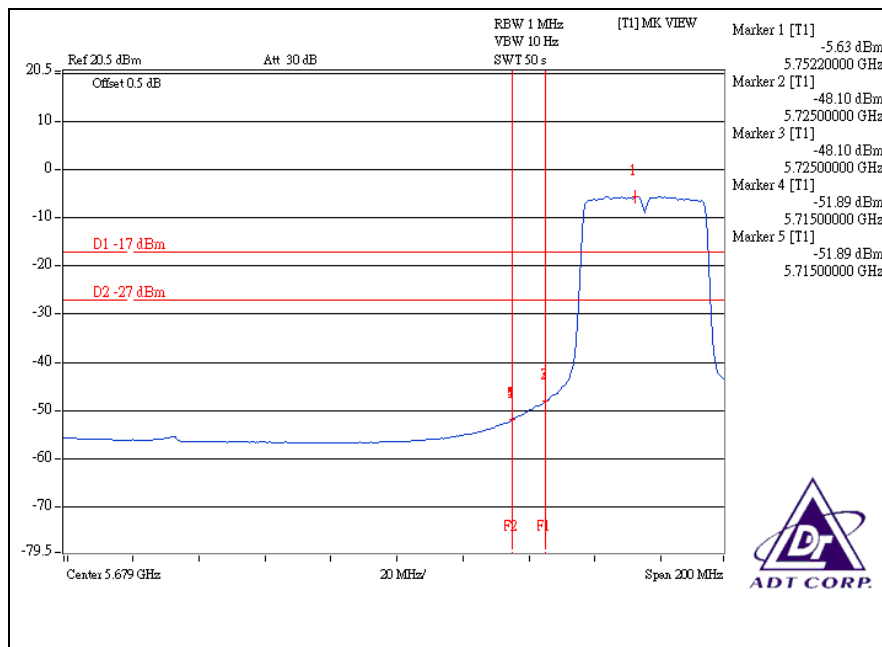
## DRAFT 802.11n (40MHz) OFDM MODULATION:

For chain (0):

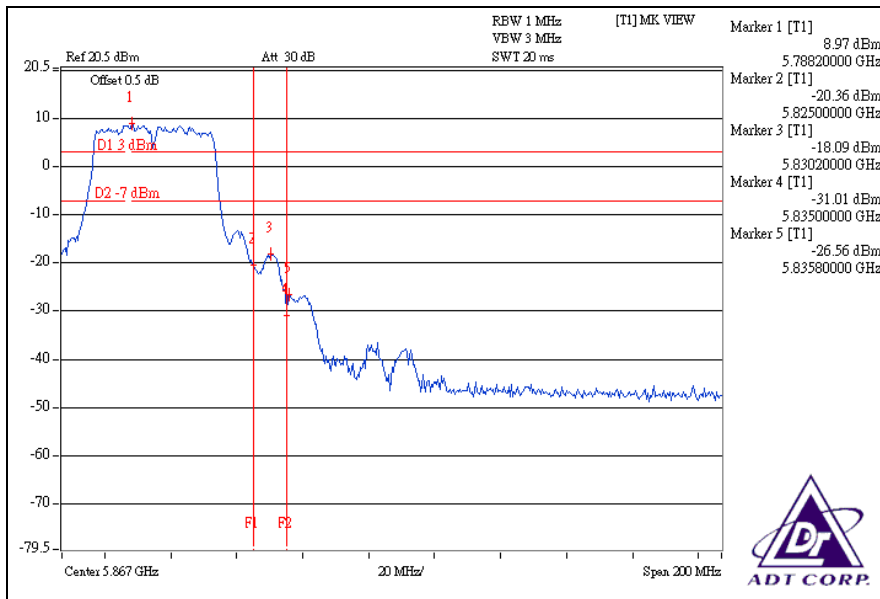
CH10



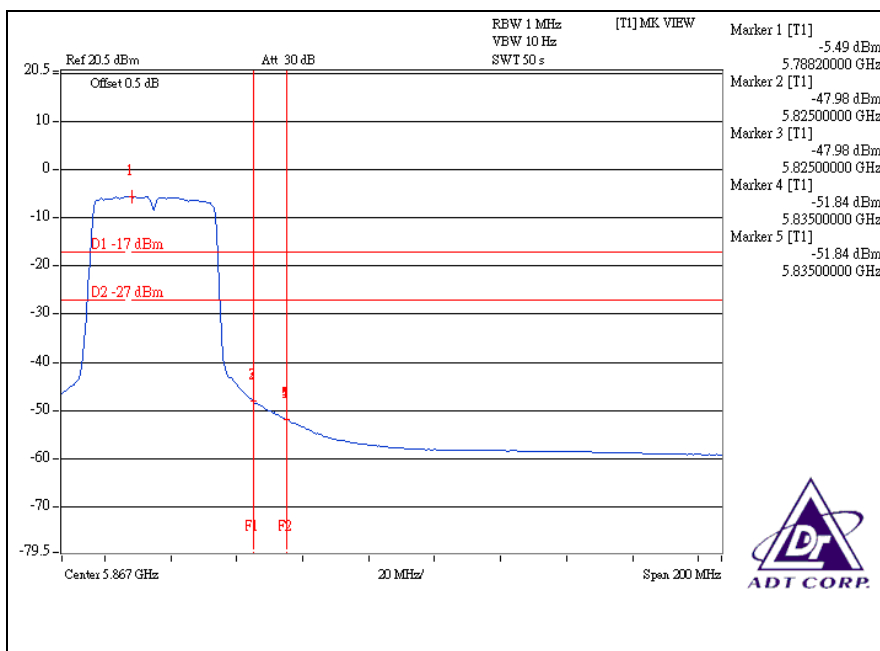
CH10



### CH12

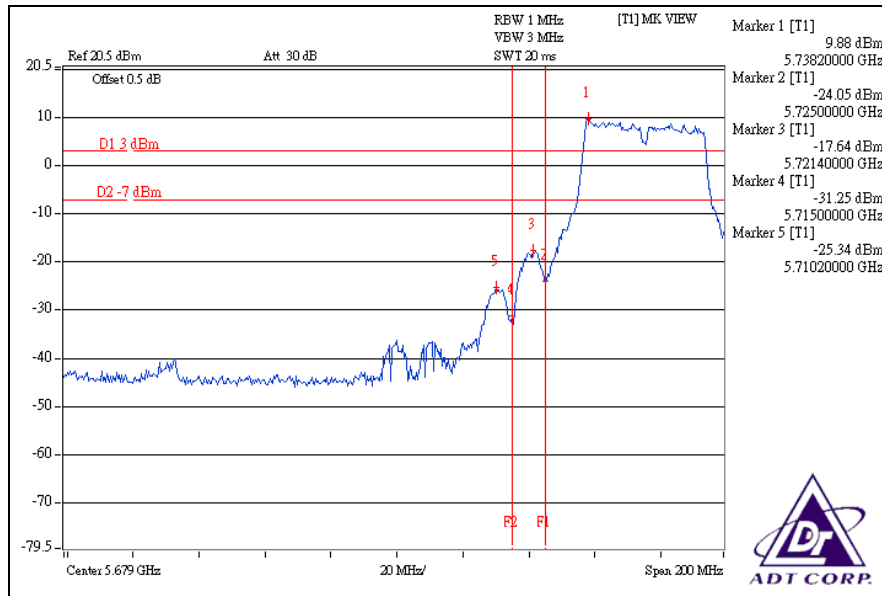


### CH12

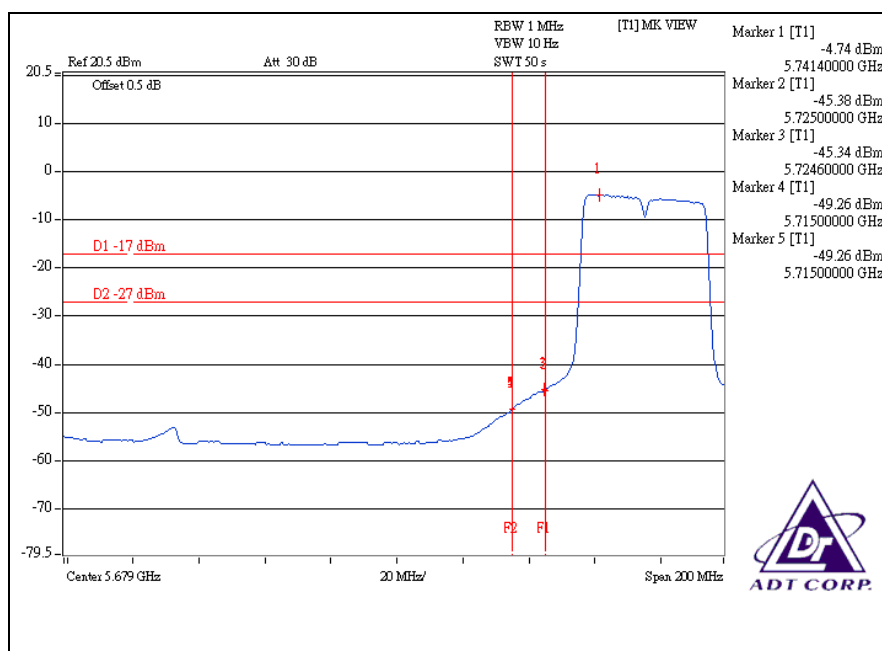


### For chain (1):

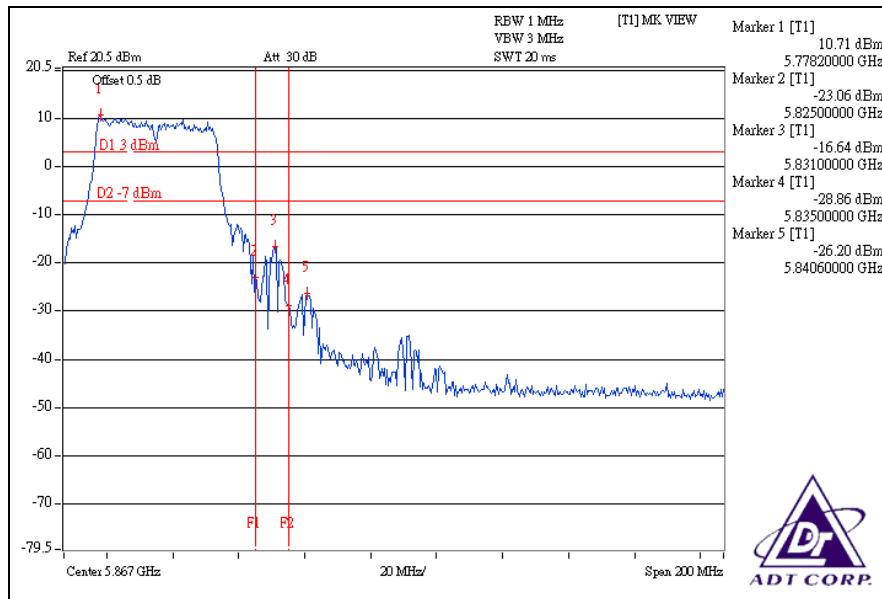
### CH10



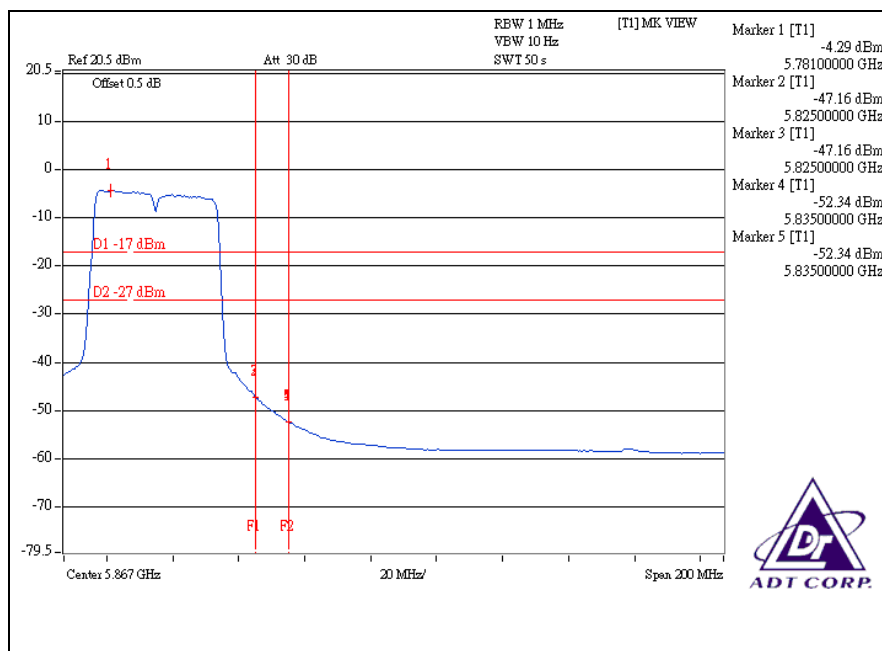
### CH10



### CH12



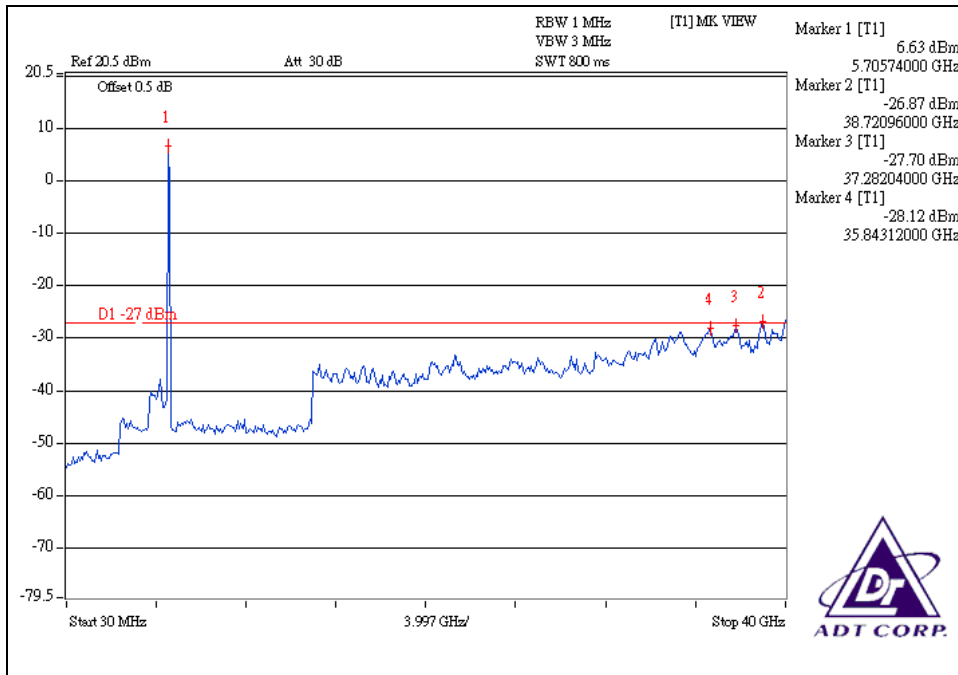
### CH12



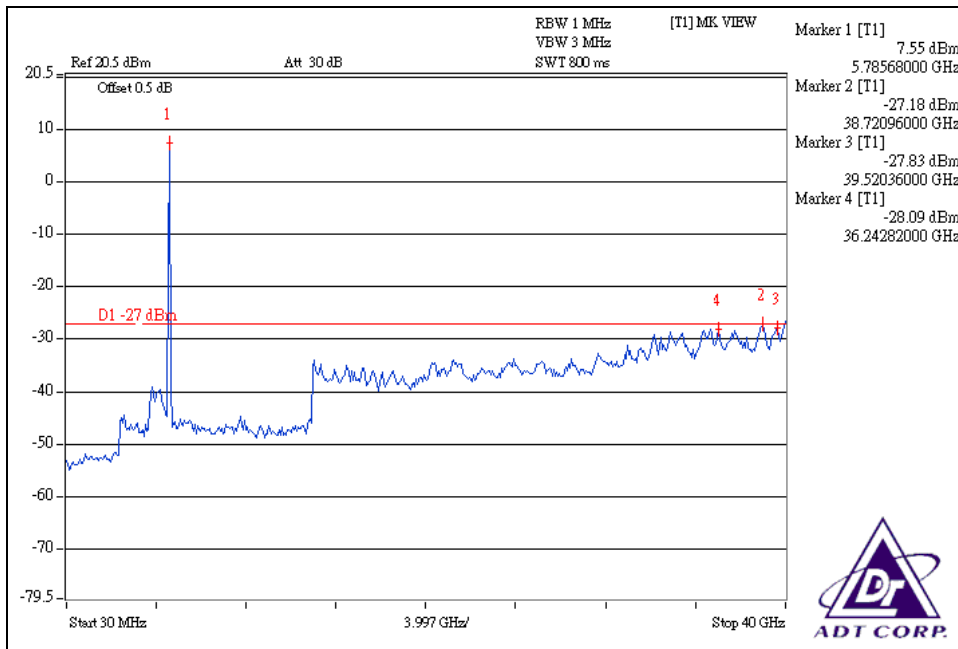


**For chain (0):**

**CH10**

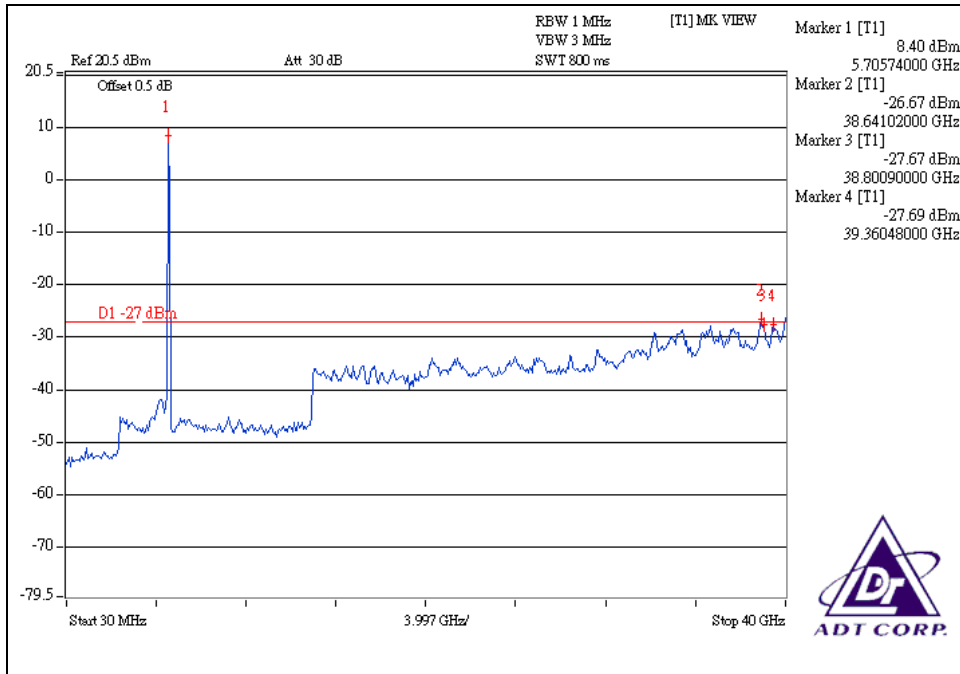


**CH12**

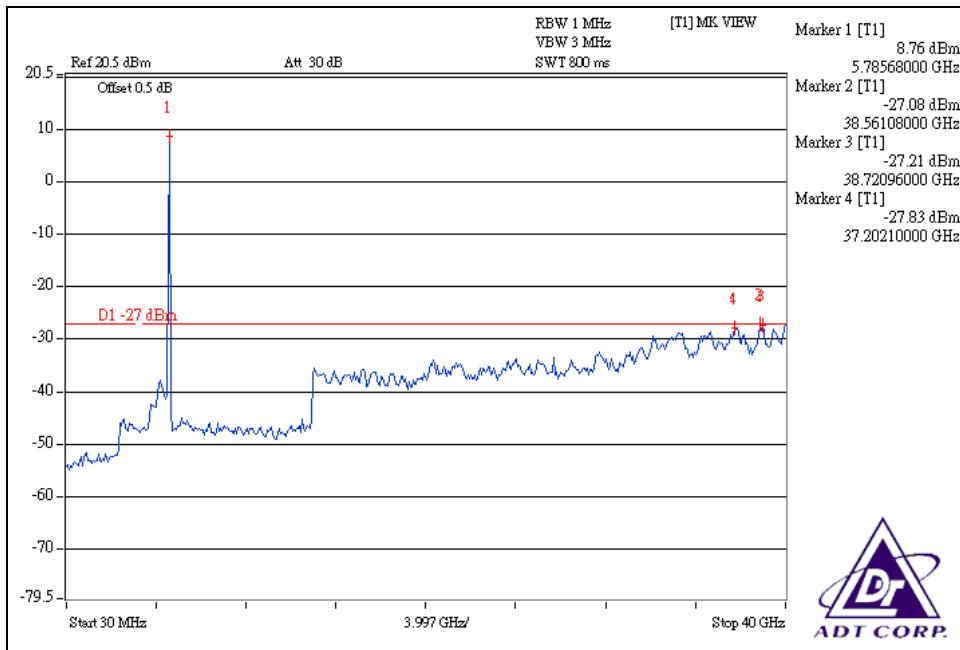


### For chain (1):

#### CH10



#### CH12



## 4.8 ANTENNA REQUIREMENT

### 4.8.1 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 15.407(a), 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.

### 4.8.2 ANTENNA CONNECTED CONSTRUCTION

There are two antennas provided to this EUT, please refer to the following table:

| No. | Antenna Type | For 5GHz / Gain (dBi) | Antenna Connector |
|-----|--------------|-----------------------|-------------------|
| 1   | PCB Print    | 0.5                   | NA                |
| 2   | PCB Print    | 0.5                   | NA                |



## 5. INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

|                    |                       |
|--------------------|-----------------------|
| <b>USA</b>         | FCC, UL, A2LA         |
| <b>Germany</b>     | TUV Rheinland         |
| <b>Japan</b>       | VCCI                  |
| <b>Norway</b>      | NEMKO                 |
| <b>Canada</b>      | INDUSTRY CANADA , CSA |
| <b>R.O.C.</b>      | TAF, BSMI, NCC        |
| <b>Netherlands</b> | Telefication          |
| <b>Singapore</b>   | GOST-ASIA(MOU)        |
| <b>Russia</b>      | CERTIS(MOU)           |

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: [www.adt.com.tw/index.5/phtml](http://www.adt.com.tw/index.5/phtml). If you have any comments, please feel free to contact us at the following:

**Linko EMC/RF Lab:**

Tel: 886-2-26052180

Fax: 886-2-26052943

**Hsin Chu EMC/RF Lab:**

Tel: 886-3-5935343

Fax: 886-3-5935342

**Hwa Ya EMC/RF/Safety Telecom Lab:**

Tel: 886-3-3183232

Fax: 886-3-3185050

**Web Site:** [www.adt.com.tw](http://www.adt.com.tw)

The address and road map of all our labs can be found in our web site also



## **6.APPENDIX-A- MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB**

No any modifications are made to the EUT by the lab during the test.