



# Appendix for Test Report

## Appendix A: DTS (6 dB) Bandwidth

In this document, the "DTS6dBBW" refers to the measured "DTS (6 dB) Bandwidth" value. In this Appendix, the "fc(DTS6dBBW)" refers to the centre of the measured "DTS6dBBW". The introduction of the "fc(DTS6dBBW)" is due to that other measurements use it as the spectrum analyzer setting.

For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain, and used as respective results for each chain.

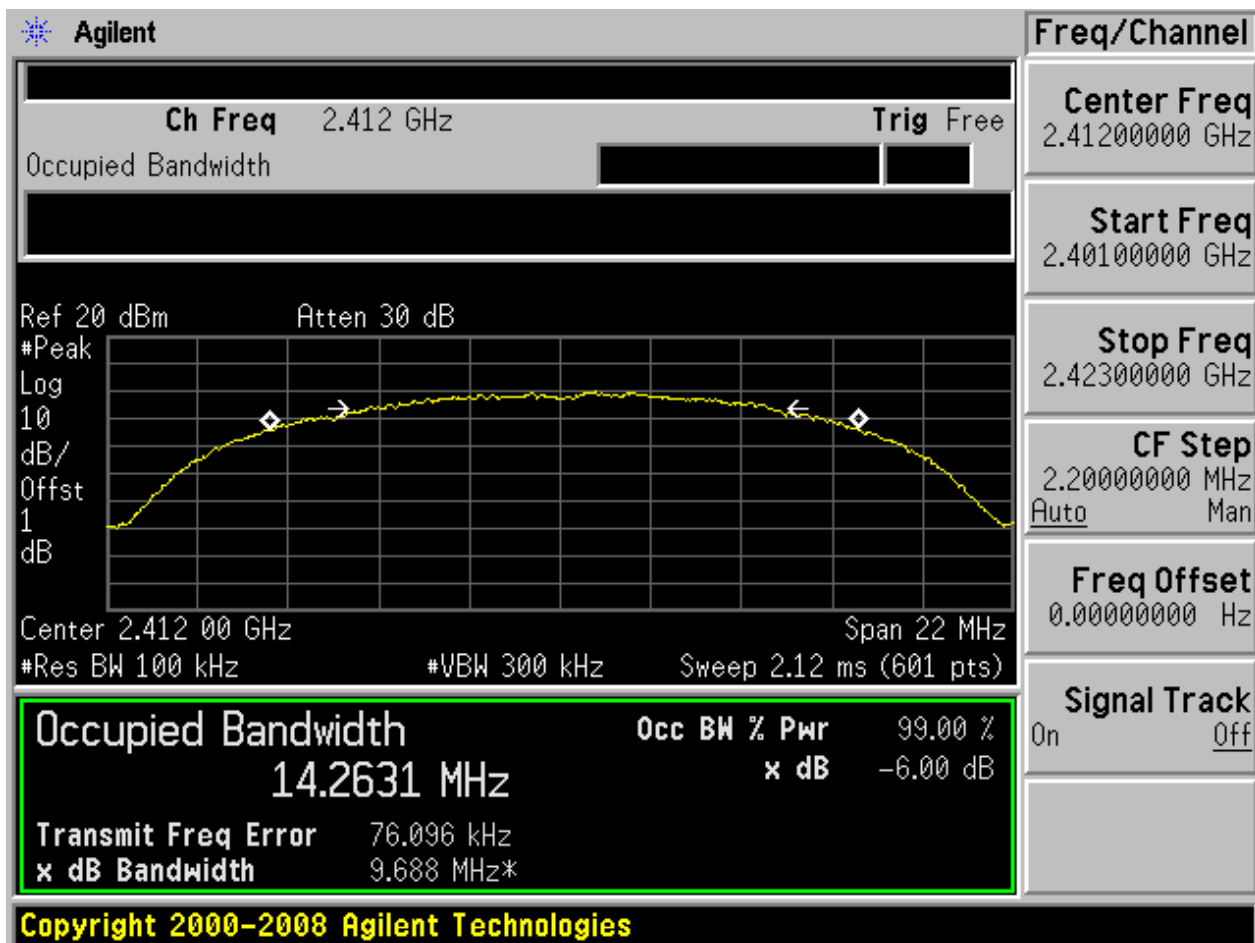
### Part I - Test Results

| Test Mode | Test Channel | Frequency[MHz] | Power Mode | DTS6dBBW[MHz] | Verdict |
|-----------|--------------|----------------|------------|---------------|---------|
| 11B       | L            | 2412           | BG1        | 9.69          | pass    |
| 11B       | L            | 2412           | BG2        | 10.23         | pass    |
| 11B       | M            | 2437           | BG1        | 10.15         | pass    |
| 11B       | M            | 2437           | BG2        | 10.11         | pass    |
| 11B       | H            | 2462           | BG1        | 10.10         | pass    |
| 11B       | H            | 2462           | BG2        | 10.10         | pass    |
| 11G       | L            | 2412           | BG1        | 16.09         | pass    |
| 11G       | L            | 2412           | BG2        | 16.41         | pass    |
| 11G       | M            | 2437           | BG1        | 15.11         | pass    |
| 11G       | M            | 2437           | BG2        | 14.23         | pass    |
| 11G       | H            | 2462           | BG1        | 16.36         | pass    |
| 11G       | H            | 2462           | BG2        | 15.15         | pass    |
| 11N20     | L            | 2412           | BG1        | 16.41         | pass    |
| 11N20     | L            | 2412           | BG2        | 15.12         | pass    |
| 11N20     | M            | 2437           | BG1        | 16.31         | pass    |
| 11N20     | M            | 2437           | BG2        | 15.36         | pass    |
| 11N20     | H            | 2462           | BG1        | 14.74         | pass    |
| 11N20     | H            | 2462           | BG2        | 13.80         | pass    |
| 11N40     | L            | 2422           | BG1        | 33.88         | pass    |
| 11N40     | L            | 2422           | BG2        | 32.87         | pass    |
| 11N40     | M            | 2437           | BG1        | 33.86         | pass    |
| 11N40     | M            | 2437           | BG2        | 31.40         | pass    |
| 11N40     | H            | 2452           | BG1        | 33.84         | pass    |
| 11N40     | H            | 2452           | BG2        | 35.06         | pass    |

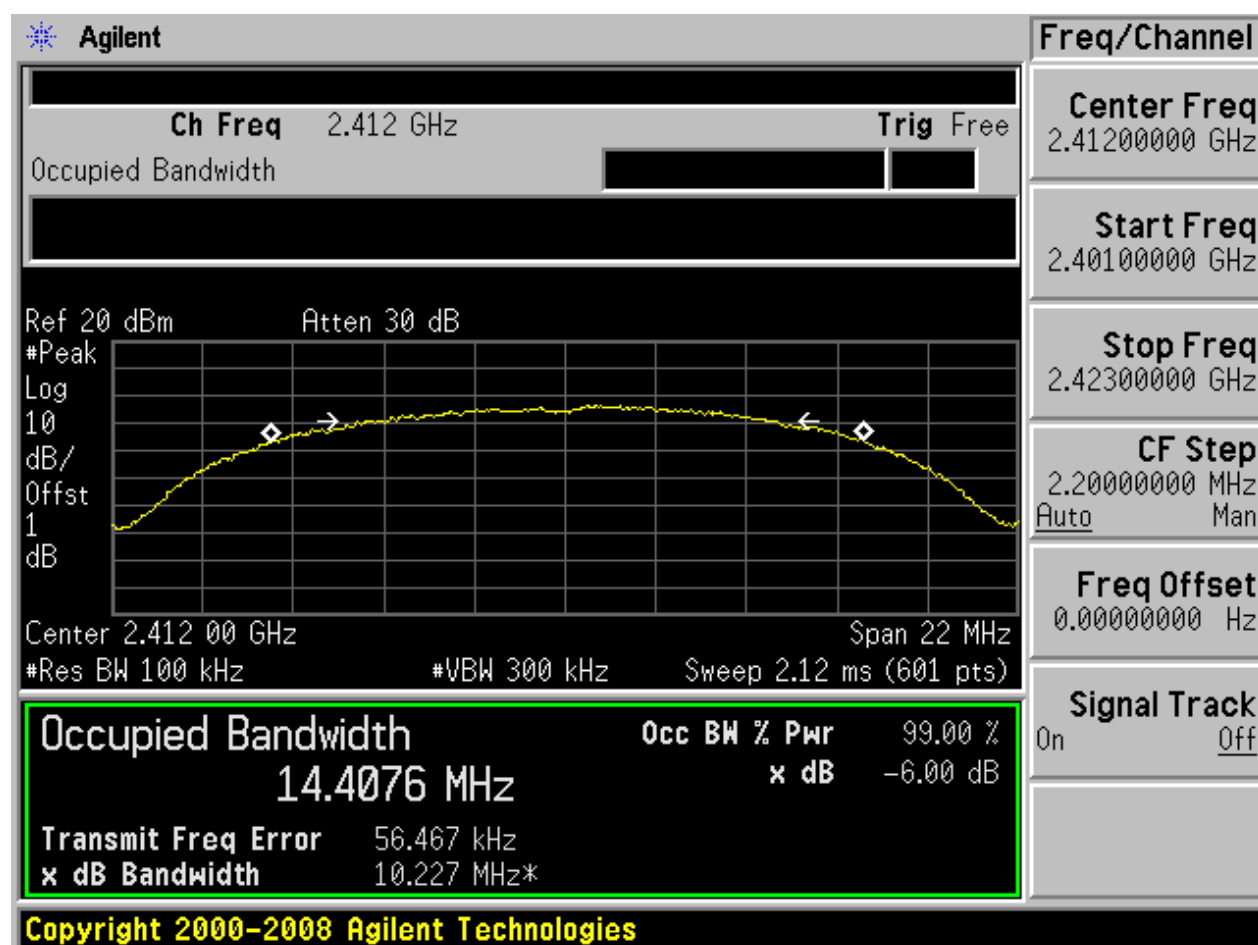


## Part II - Test Plots

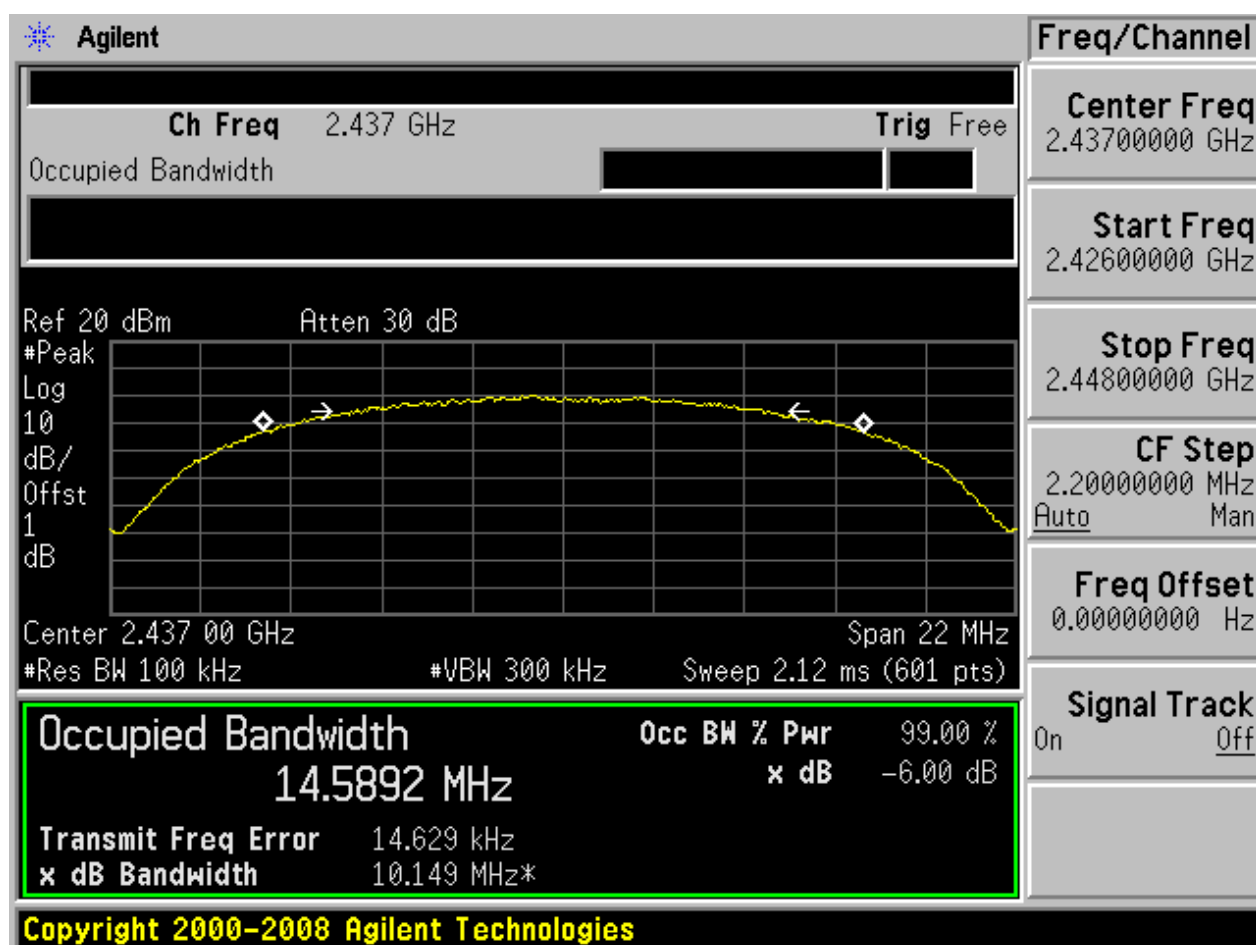
### 2.1 11B\_L@BG1



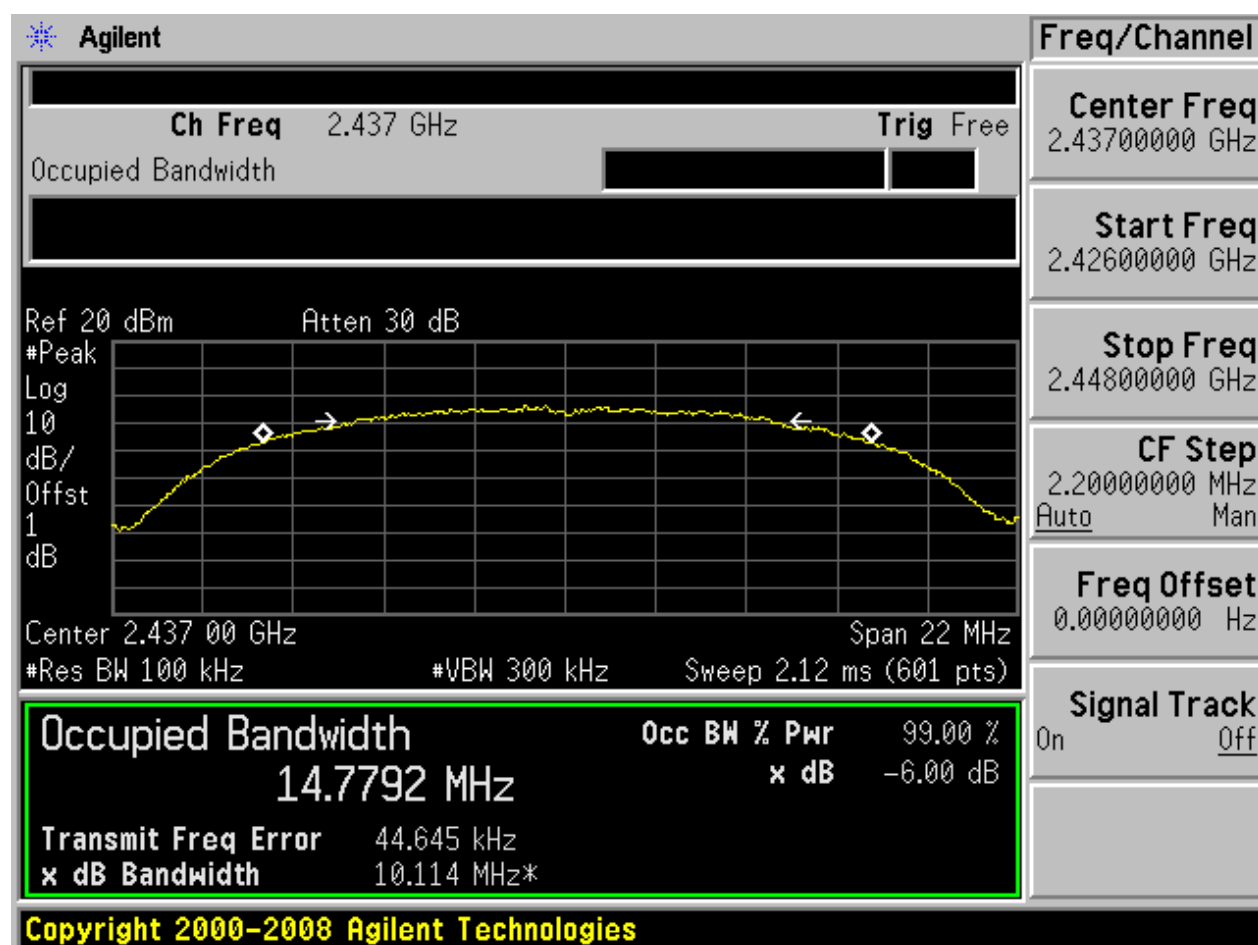
## 2.2 11B\_L@BG2

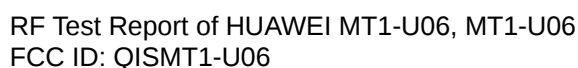


## 2.3 11B\_M@BG1



## 2.4 11B\_M@BG2





The image shows a screenshot of an Agilent spectrum analyzer. The main display area shows a signal trace with a peak marker. The peak is labeled with a diamond symbol and the value 14.4611 MHz. The trace is centered at 2.462 GHz. The bandwidth is set to 100 kHz. The span is 22 MHz. The resolution bandwidth is 300 kHz. The sweep time is 2.12 ms (601 pts). The display also shows the center frequency, start frequency, stop frequency, and CF step. The signal track is set to On. The occupied bandwidth is 14.4611 MHz. The transmit frequency error is 2.026 kHz. The x dB bandwidth is 10.102 MHz\*.

Agilent

Ch Freq 2.462 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

#Peak Log 10 dB/ Offst 1 dB

Center 2.462 00 GHz Span 22 MHz

#Res BW 100 kHz #VBW 300 kHz Sweep 2.12 ms (601 pts)

Occupied Bandwidth 14.4611 MHz

Occ BW % Pwr 99.00 %

x dB -6.00 dB

Transmit Freq Error 2.026 kHz

x dB Bandwidth 10.102 MHz\*

Freq/Channel

Center Freq 2.46200000 GHz

Start Freq 2.45100000 GHz

Stop Freq 2.47300000 GHz

CF Step 2.20000000 MHz

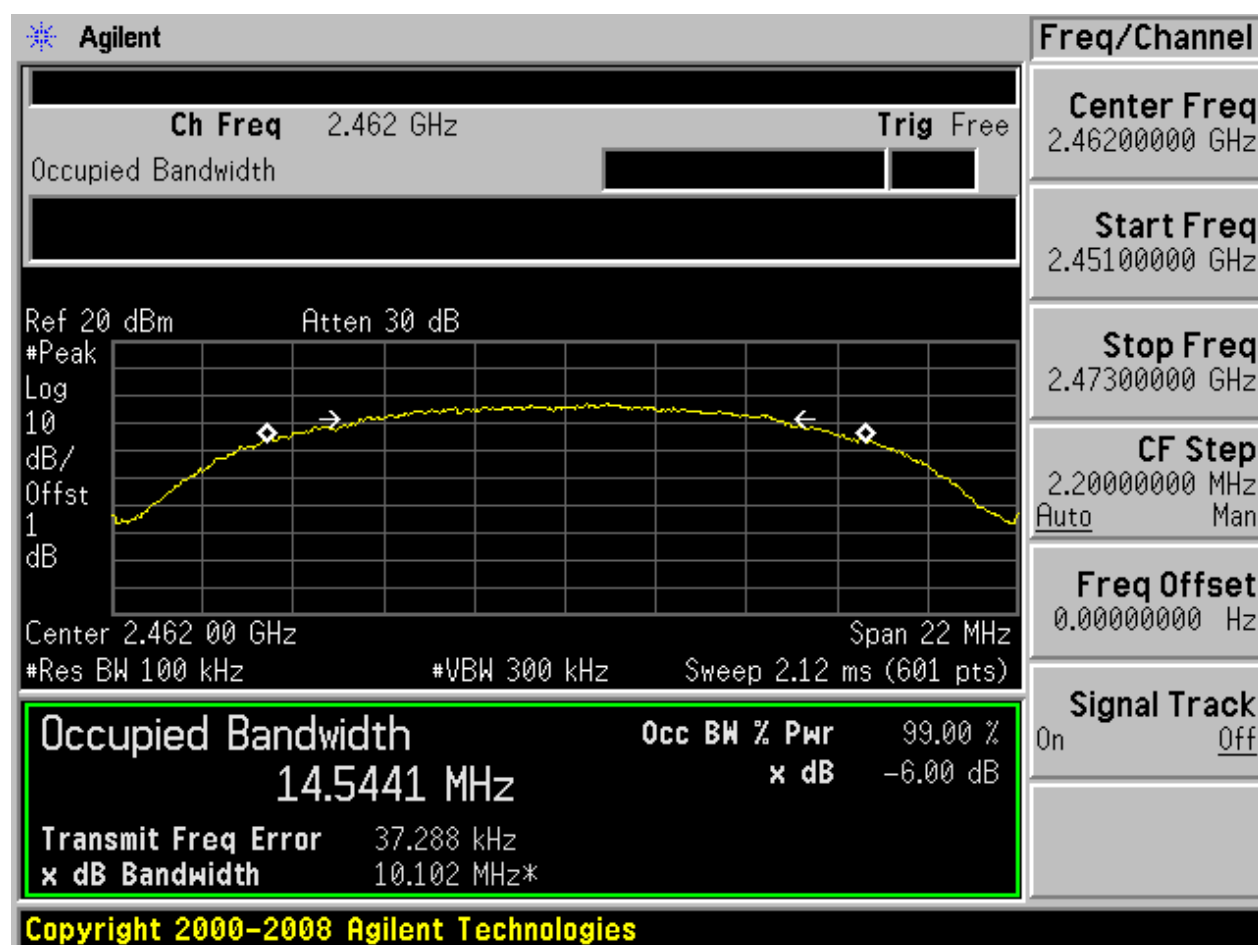
Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

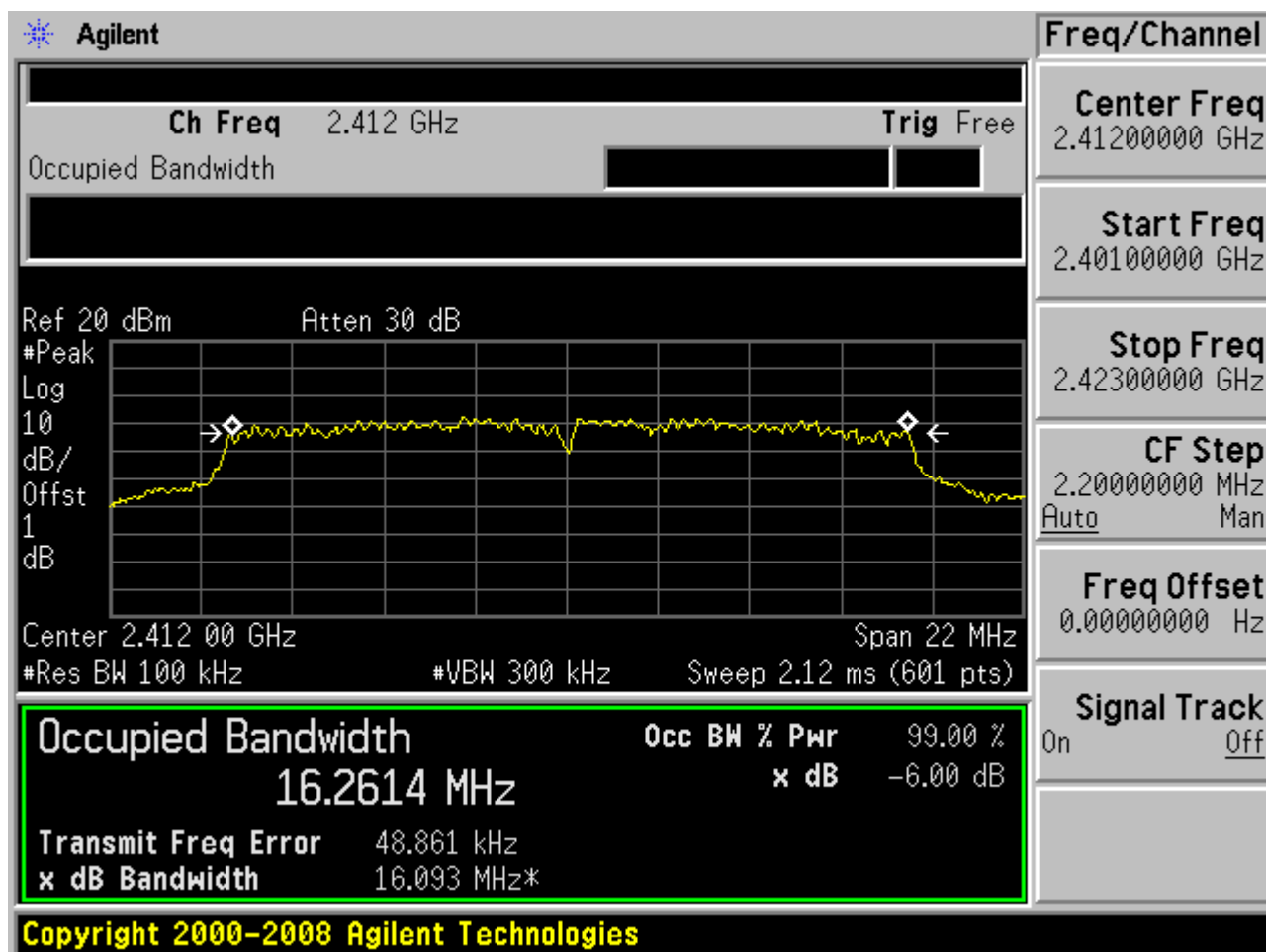
Copyright 2000-2008 Agilent Technologies

## 2.6 11B\_H@BG2



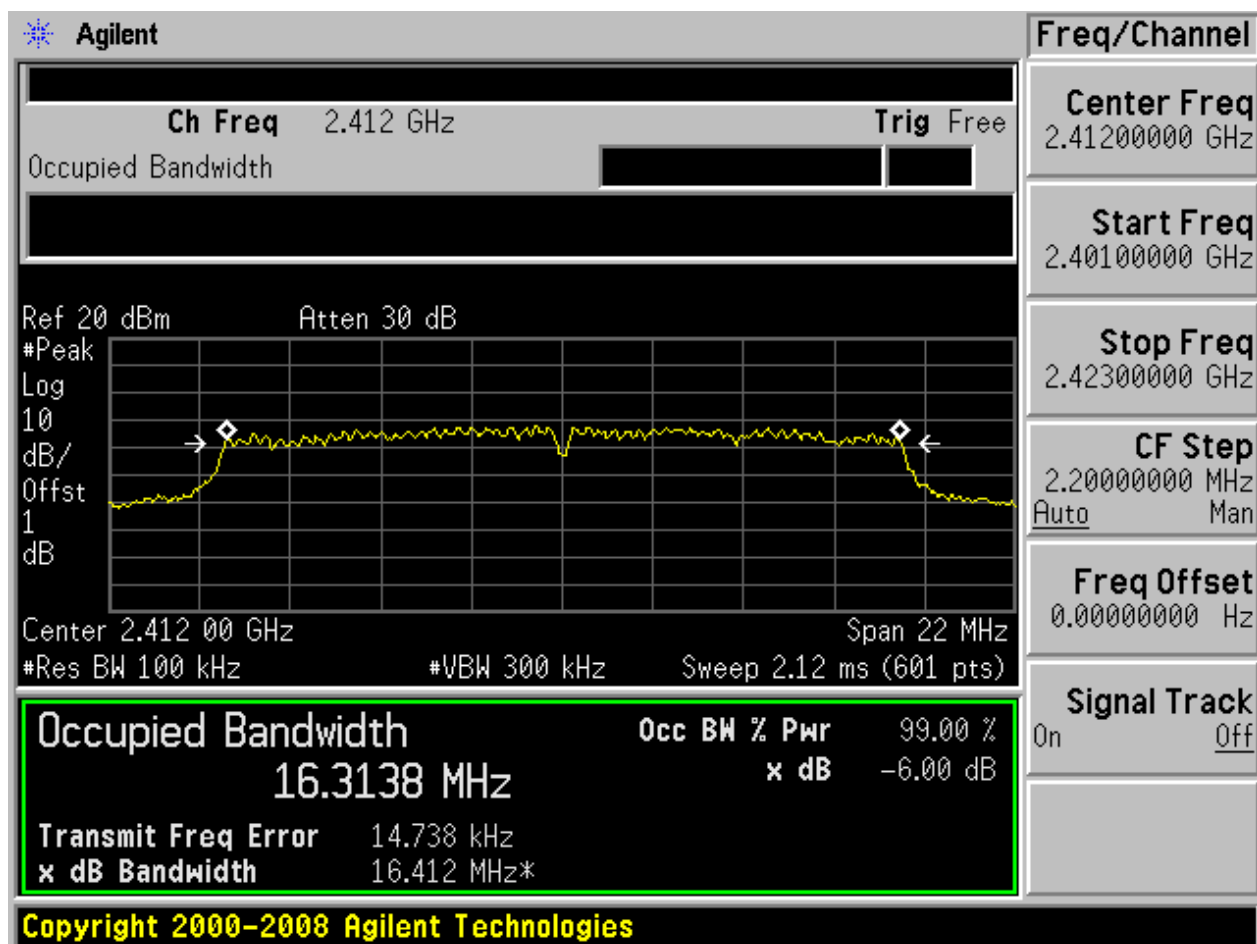


## 2.7 11G\_L@BG1



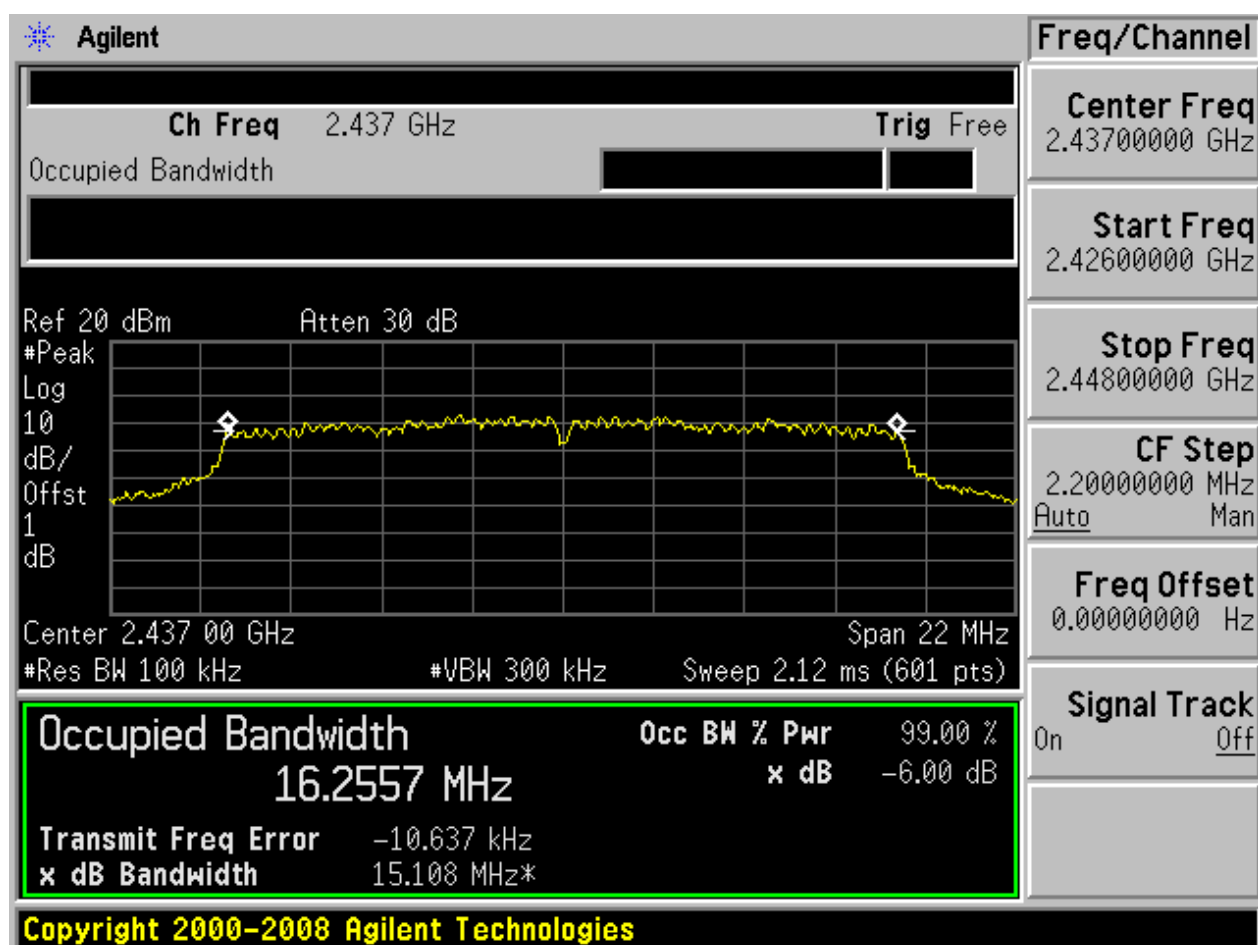


## 2.8 11G\_L@BG2



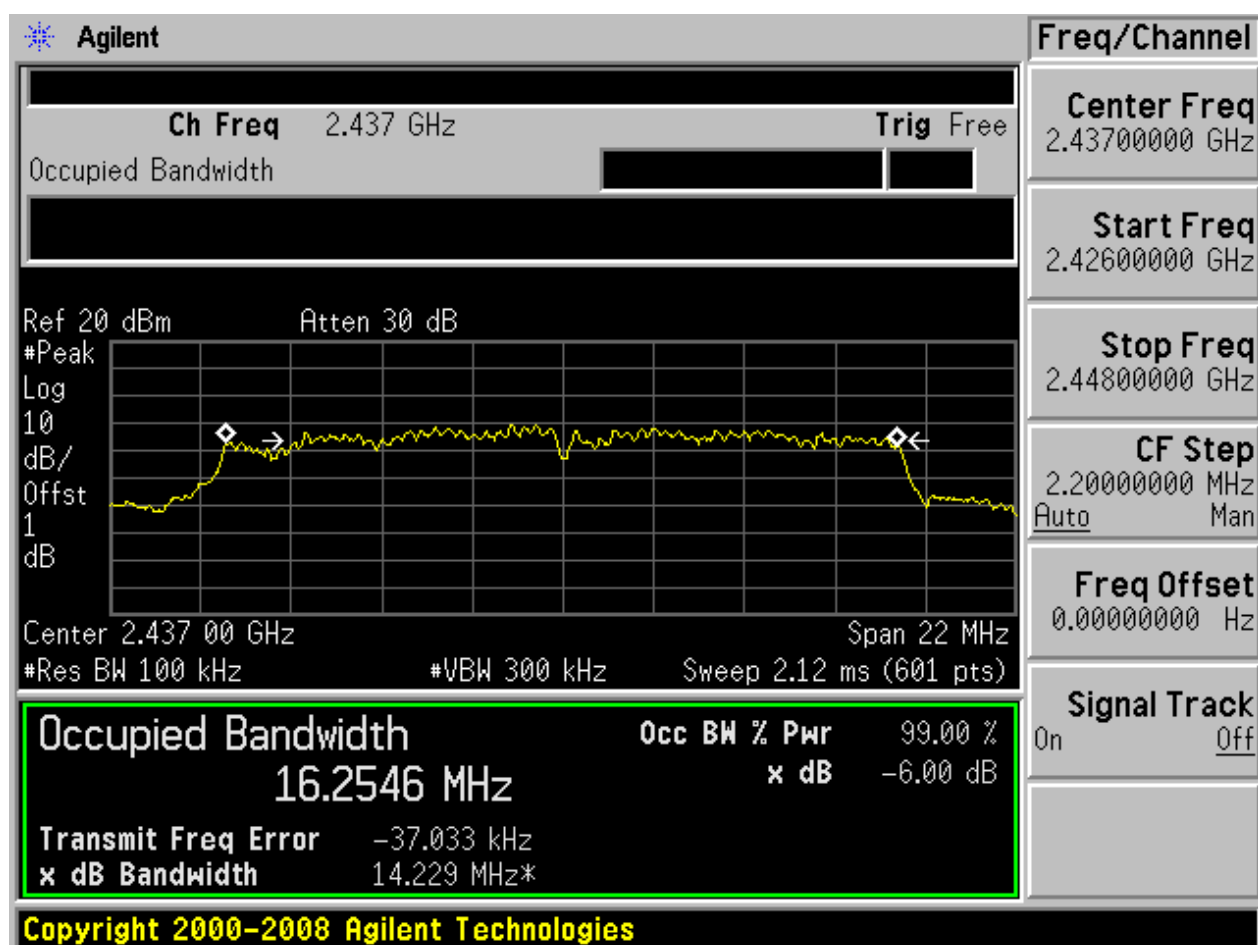


## 2.9 11G\_M@BG1

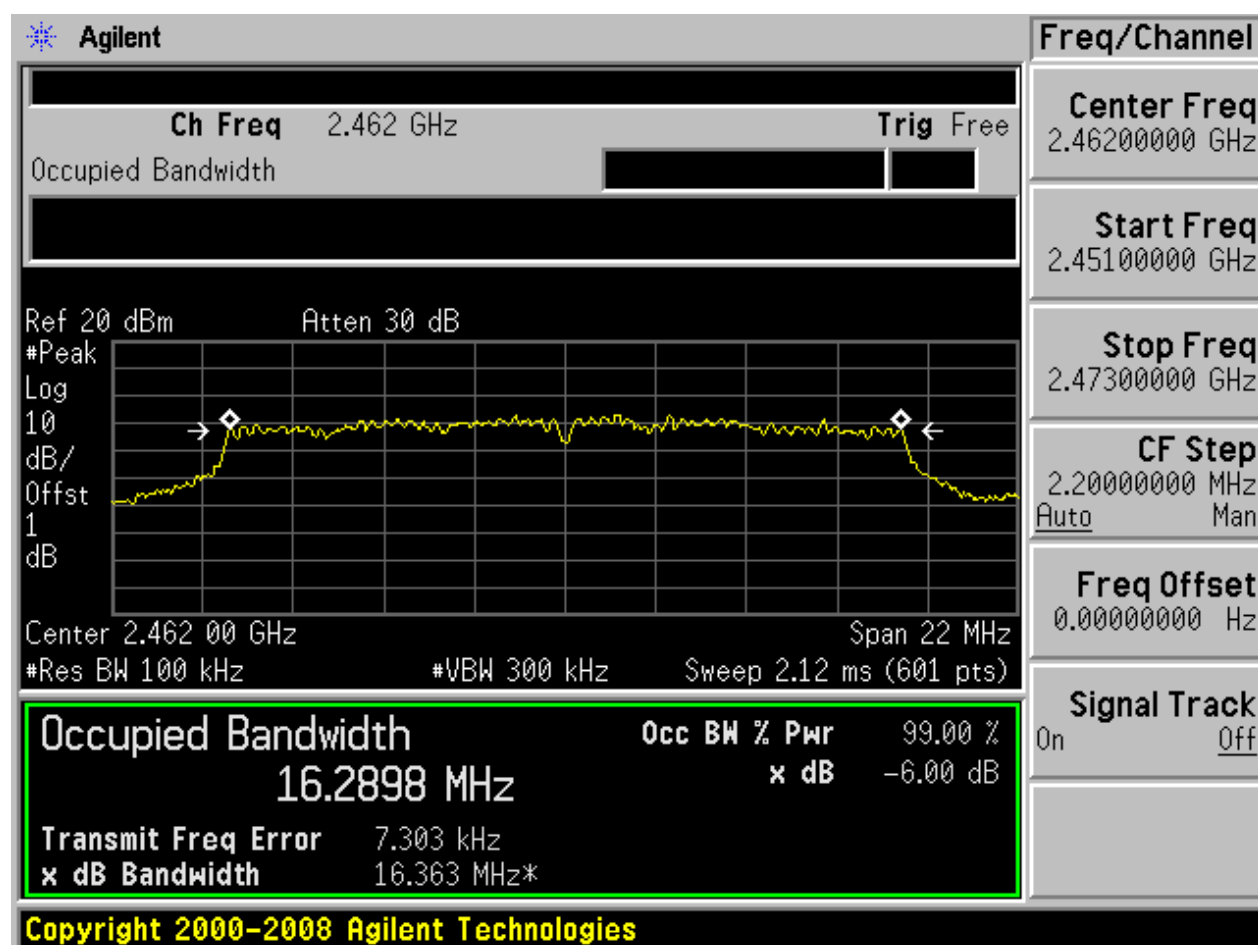




## 2.10 11G\_M@BG2

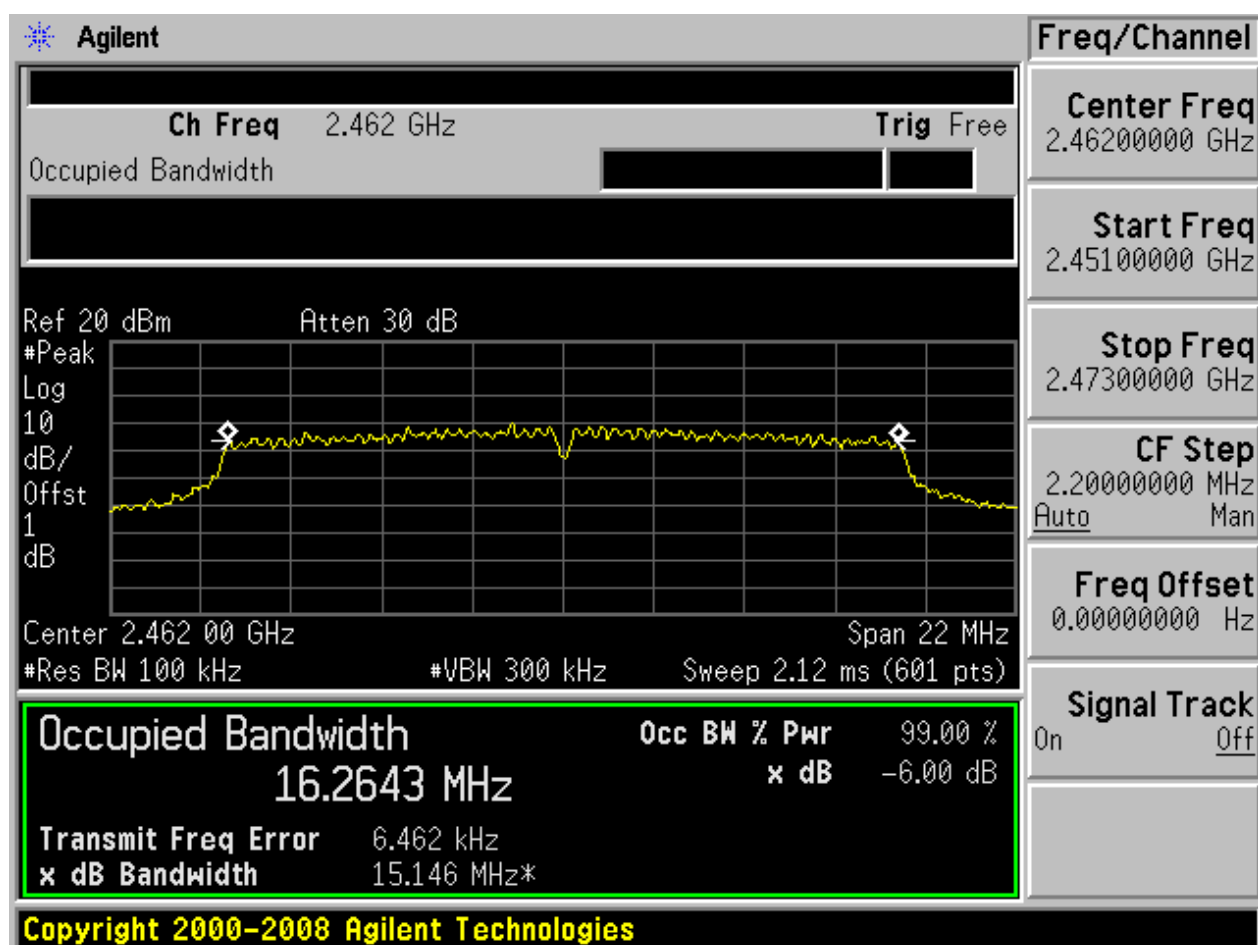


## 2.11 11G\_H@BG1



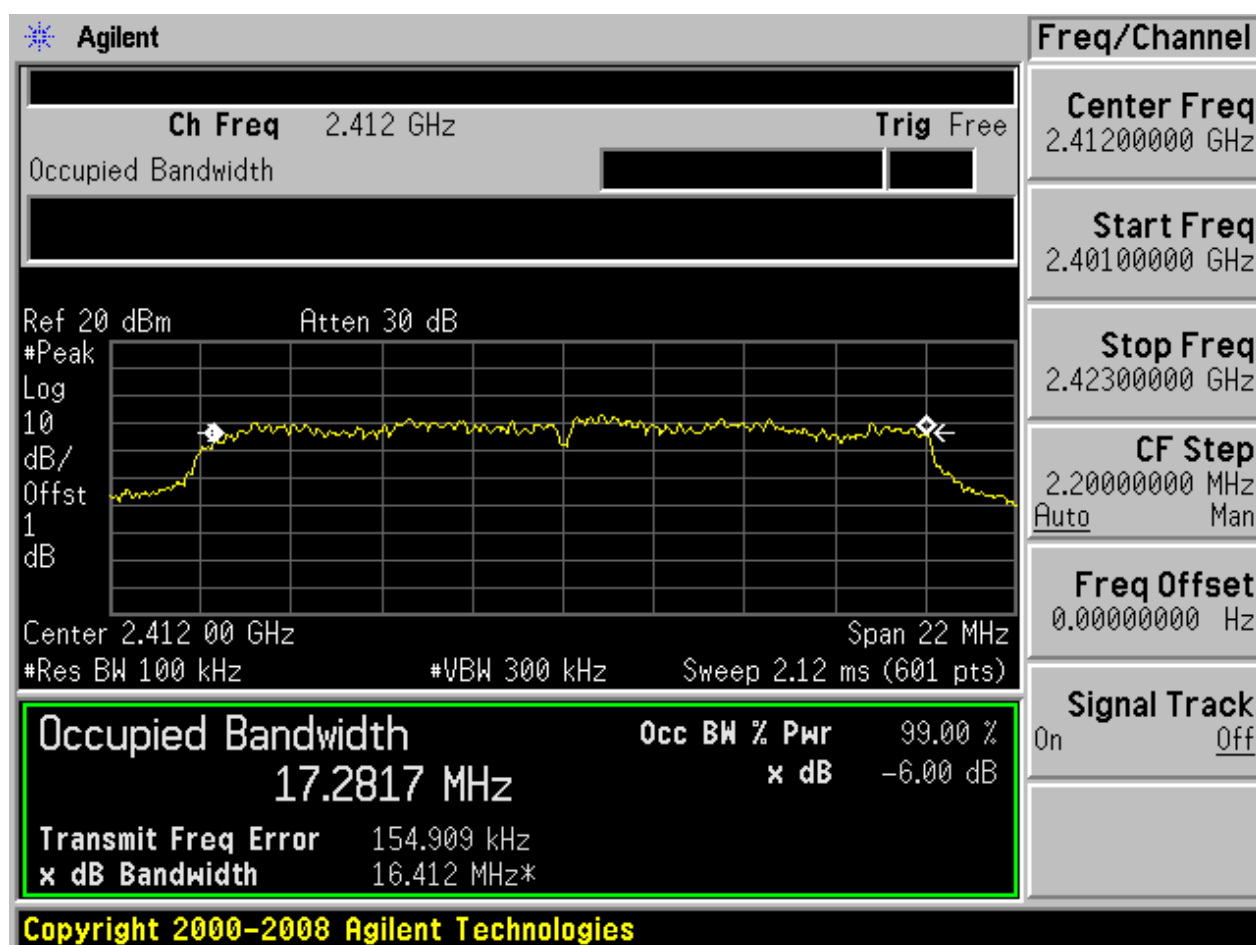


## 2.12 11G\_H@BG2

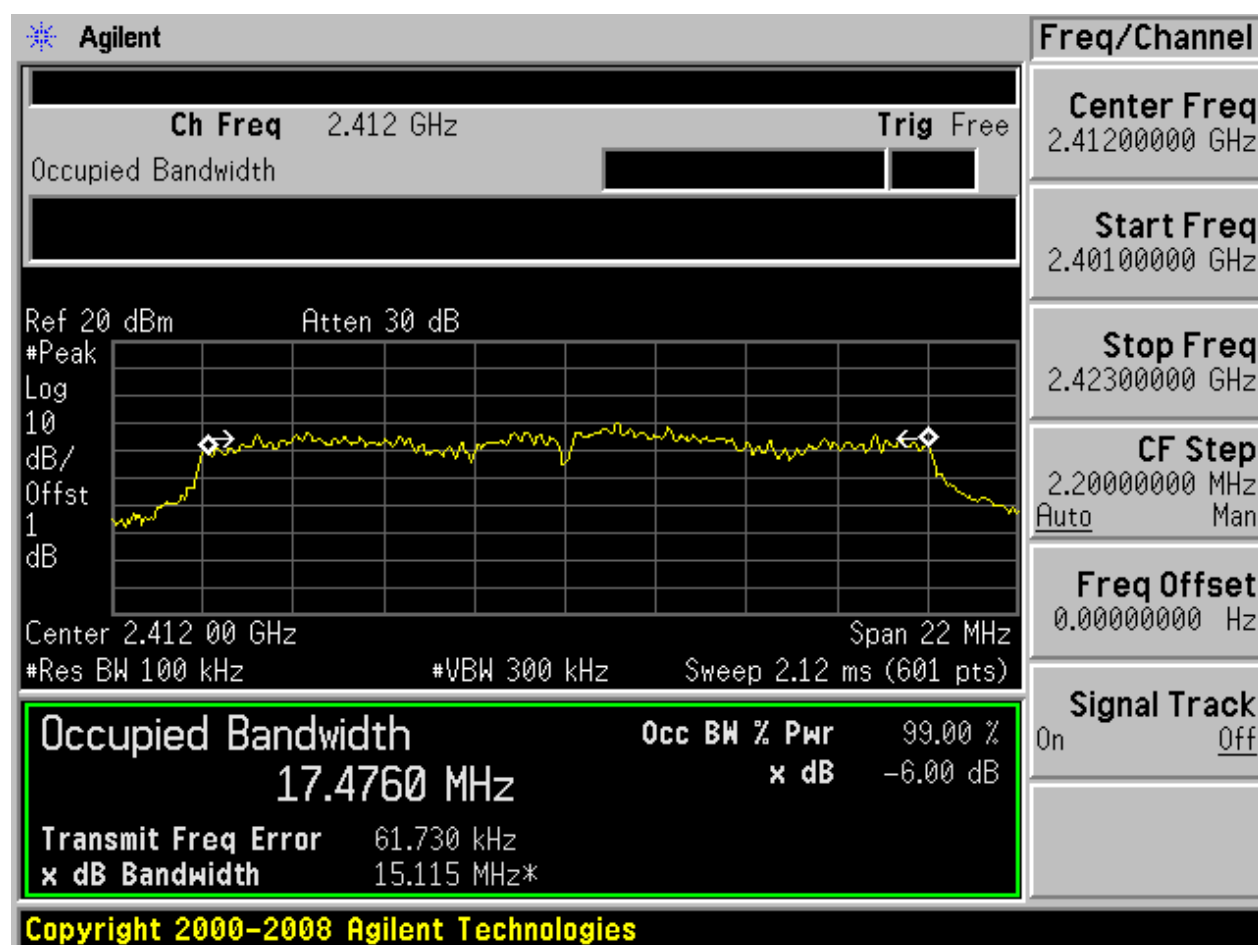




## 2.13 11N20\_L@BG1

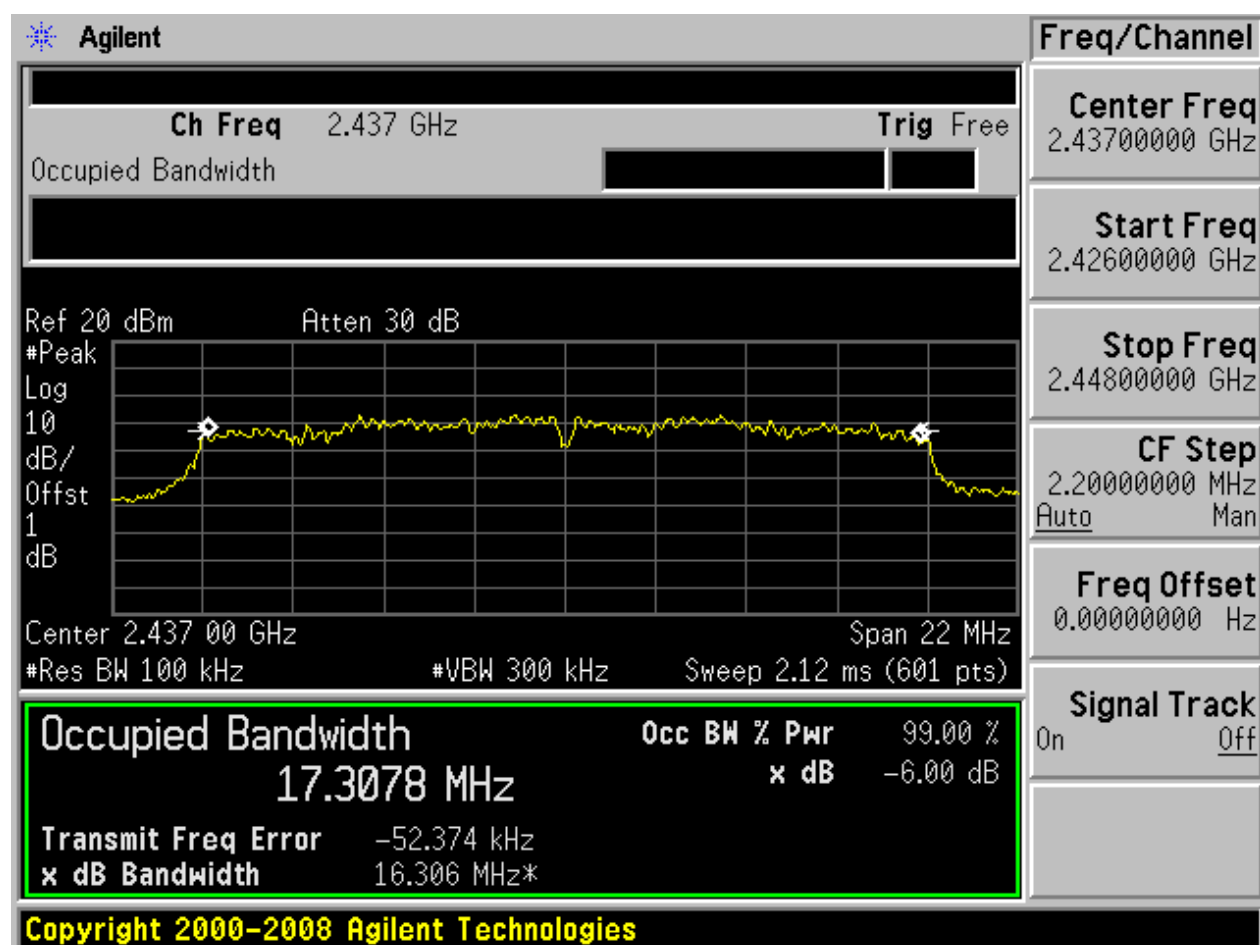


## 2.14 11N20\_L@BG2



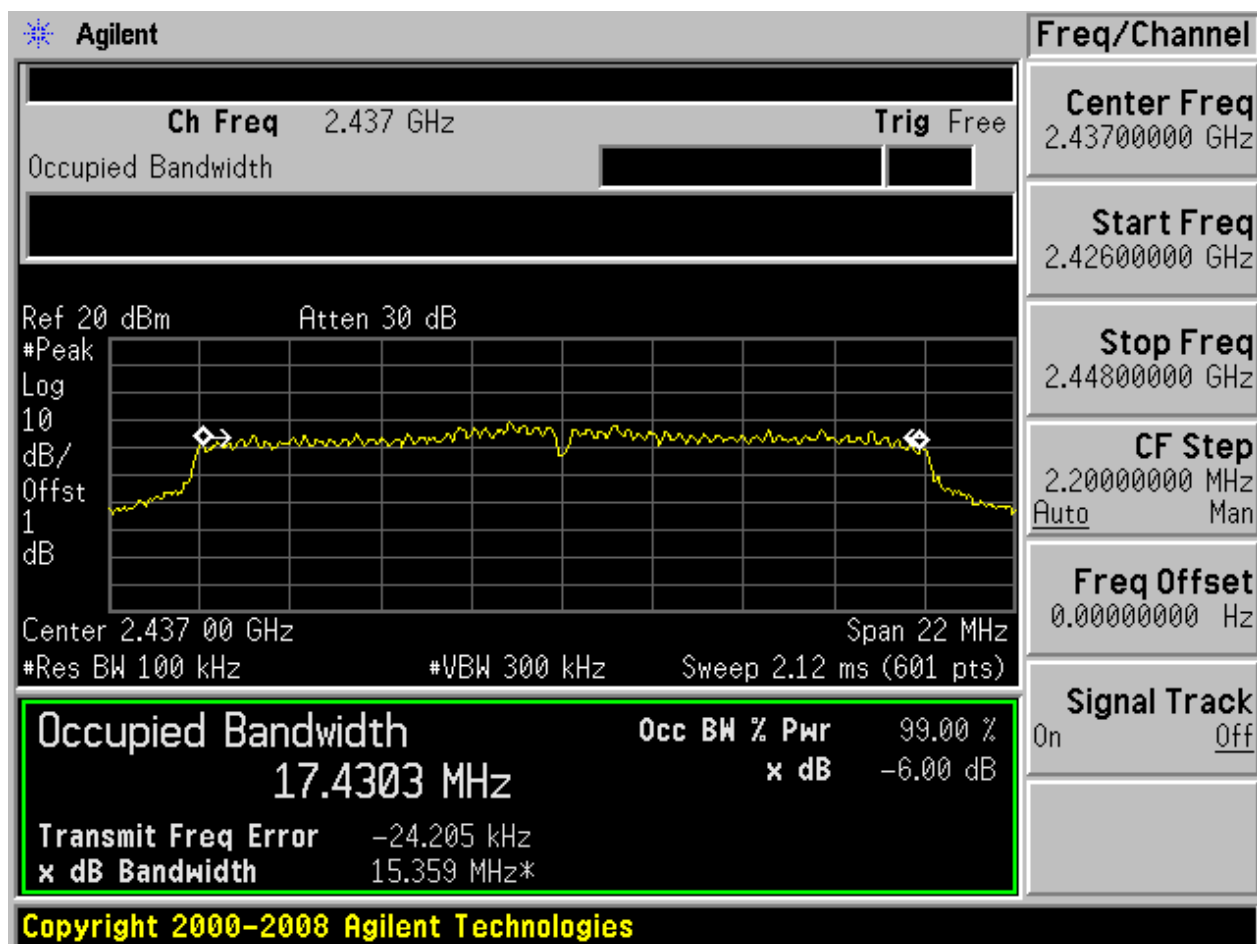


## 2.15 11N20\_M@BG1

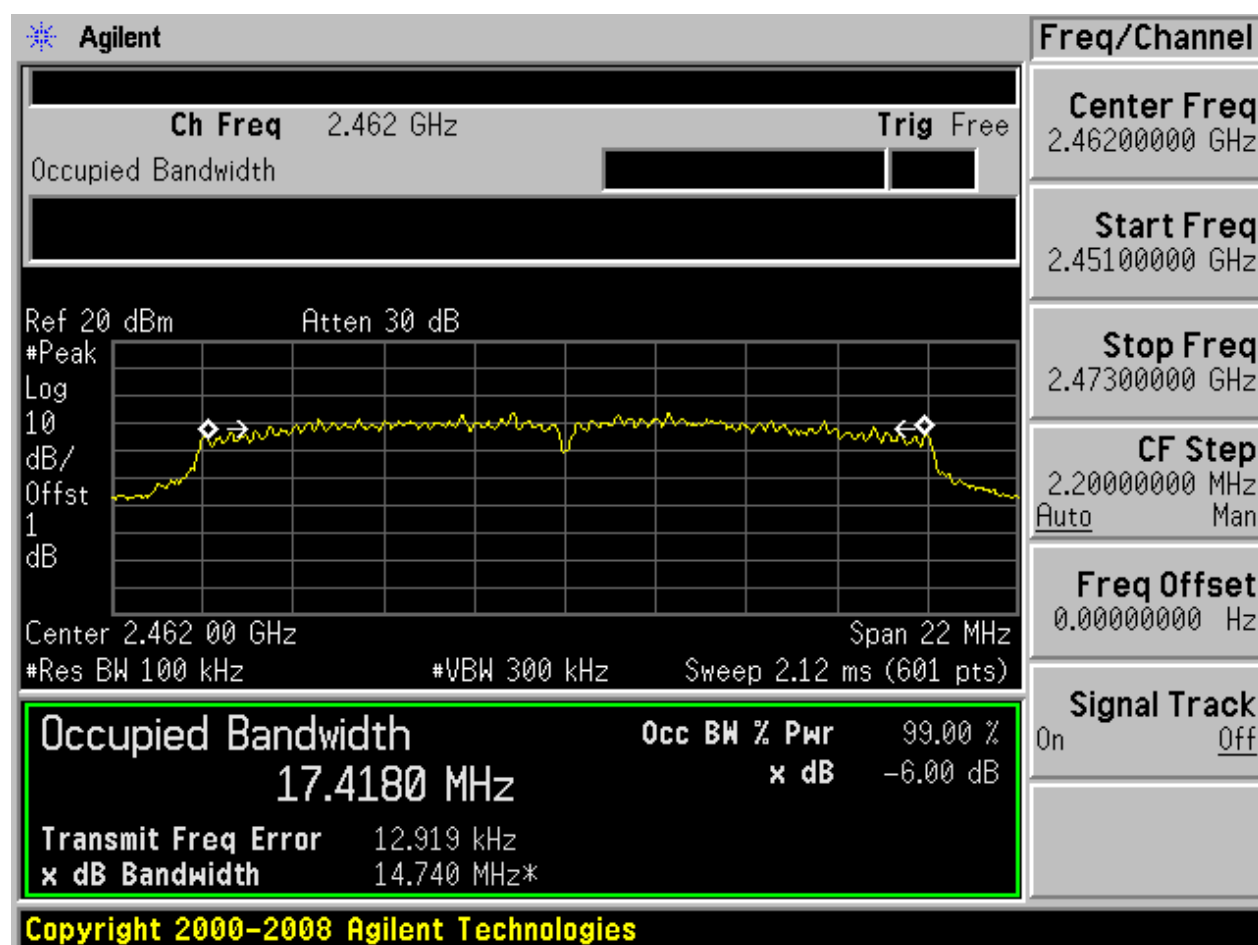




## 2.16 11N20\_M@BG2

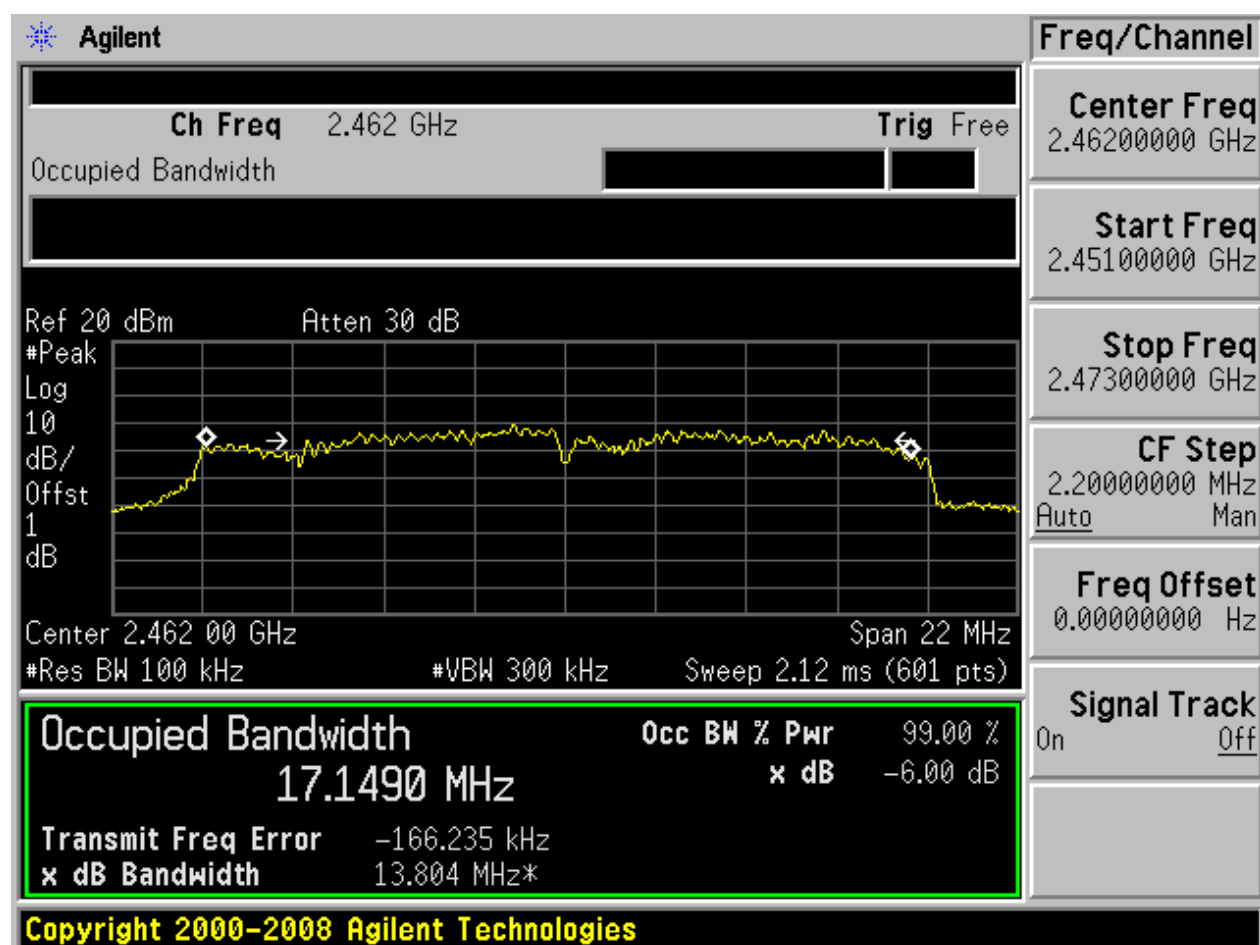


## 2.17 11N20\_H@BG1



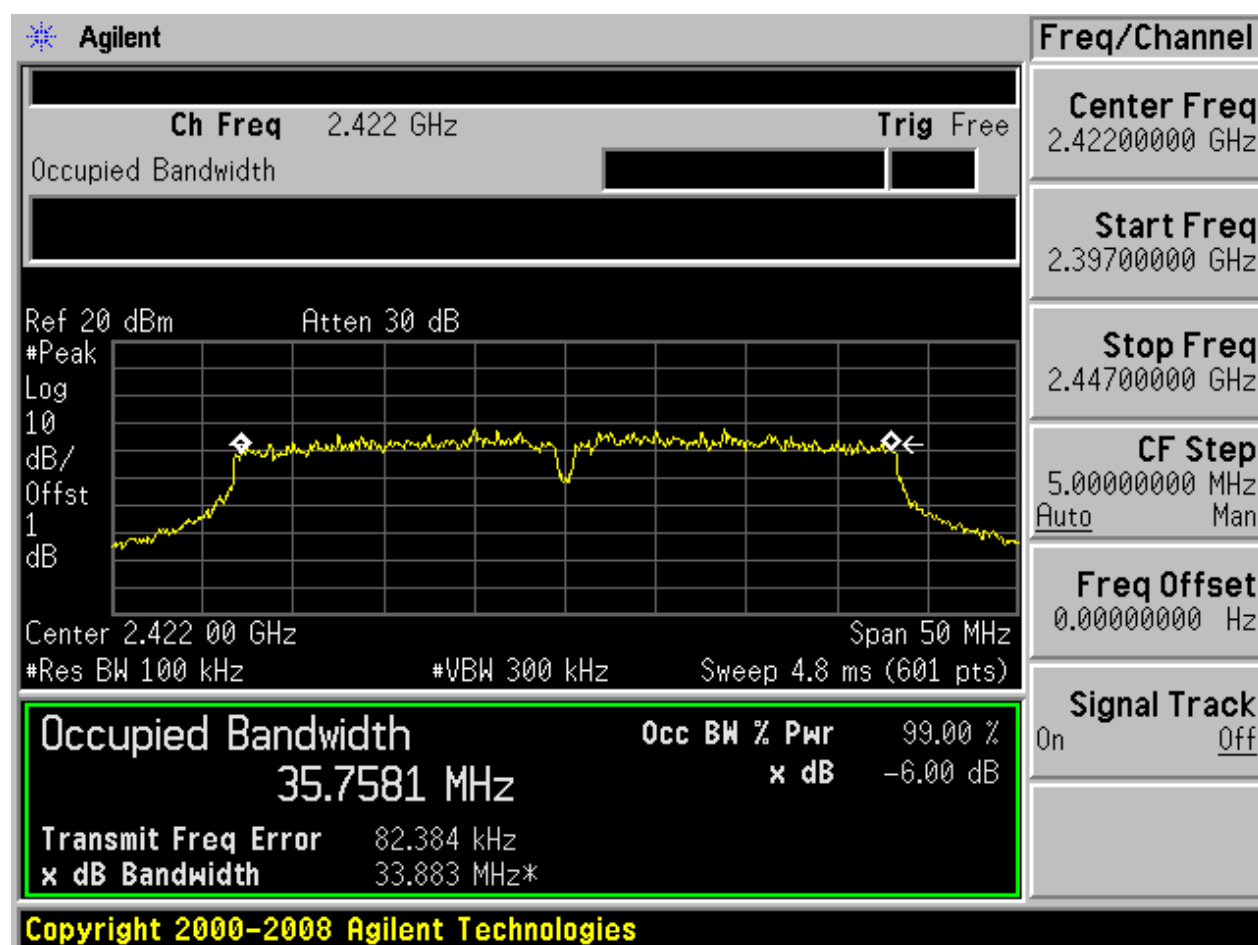


## 2.18 11N20\_H@BG2



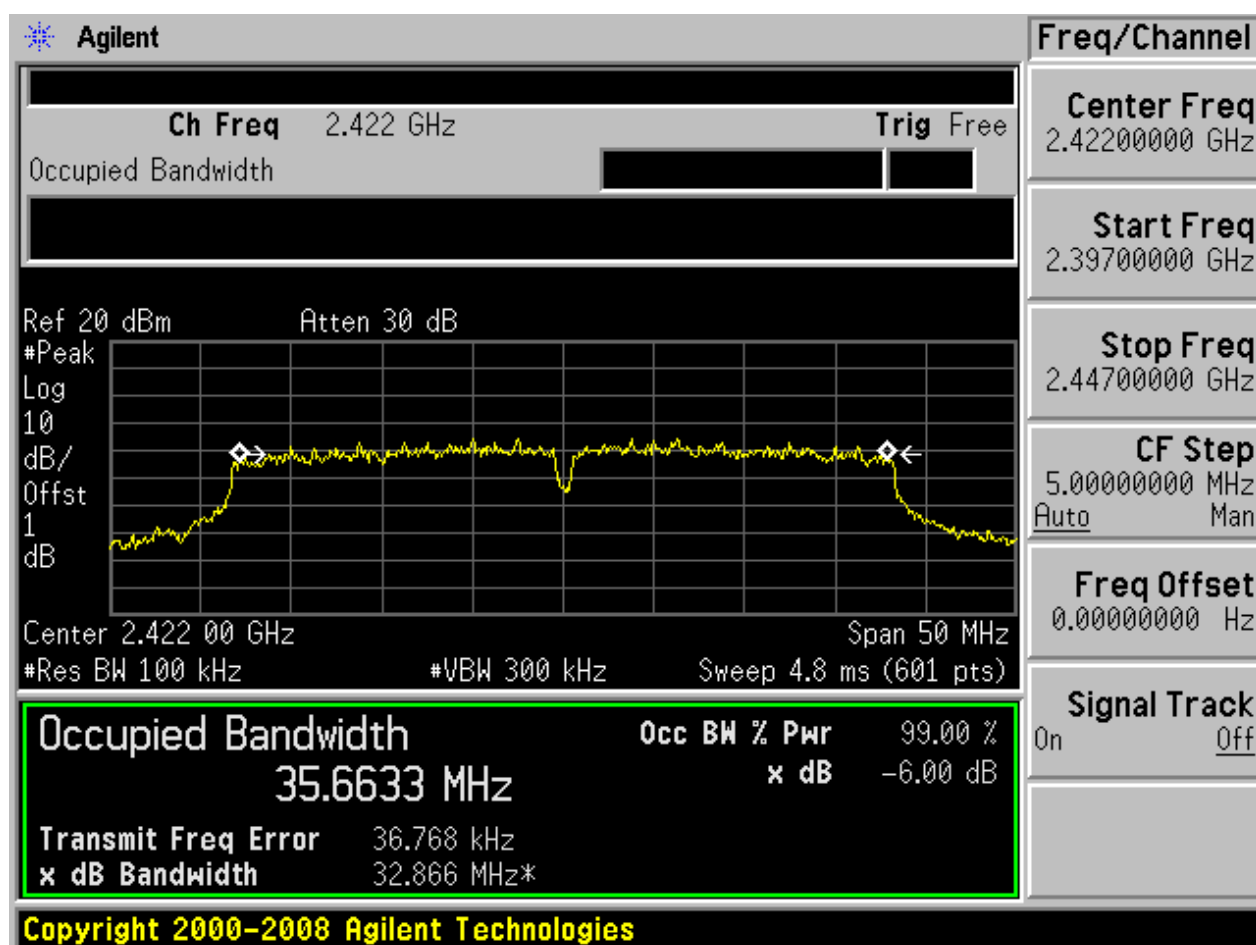


## 2.19 11N40\_L@BG1

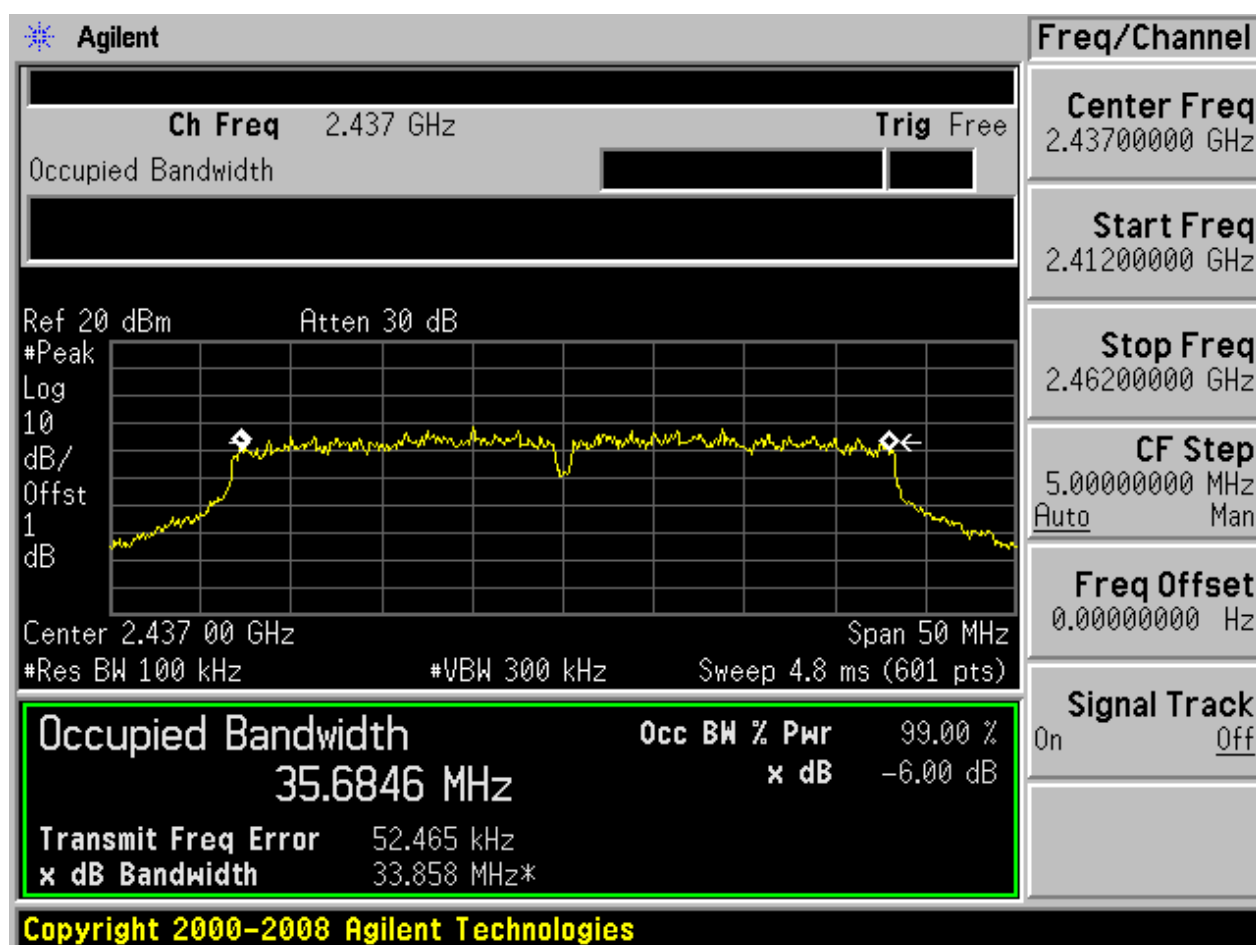




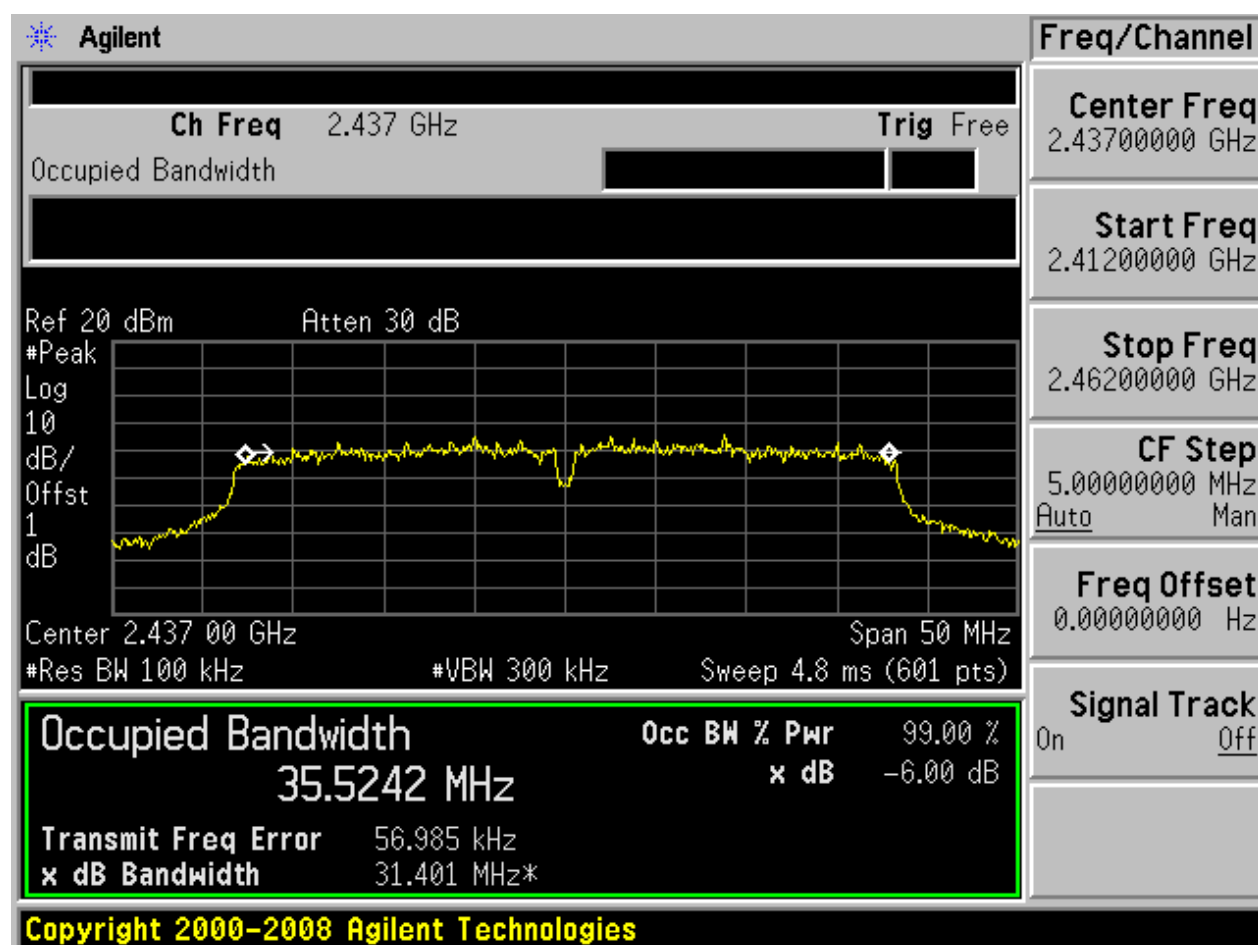
## 2.20 11N40\_L@BG2



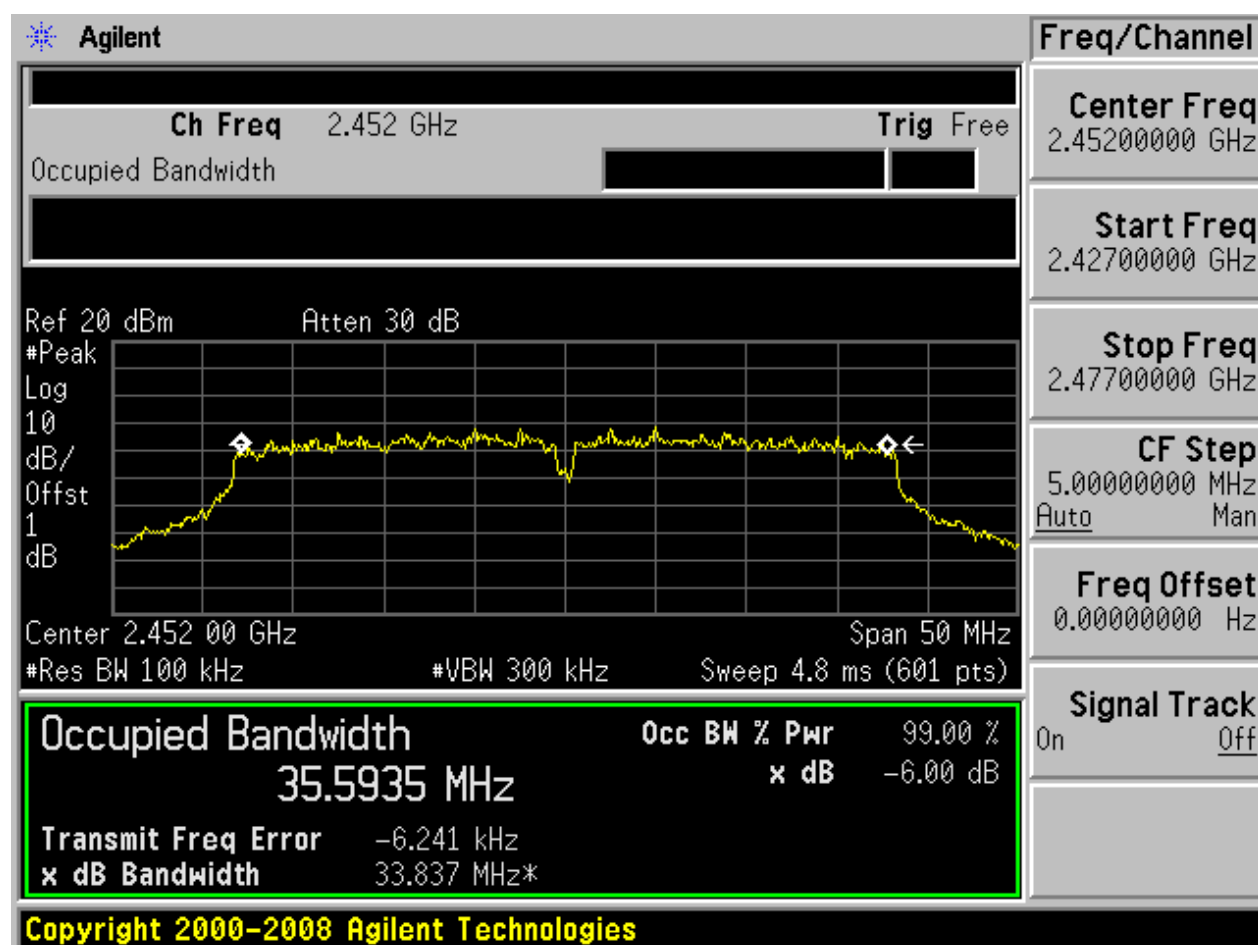
## 2.21 11N40\_M@BG1



## 2.22 11N40\_M@BG2

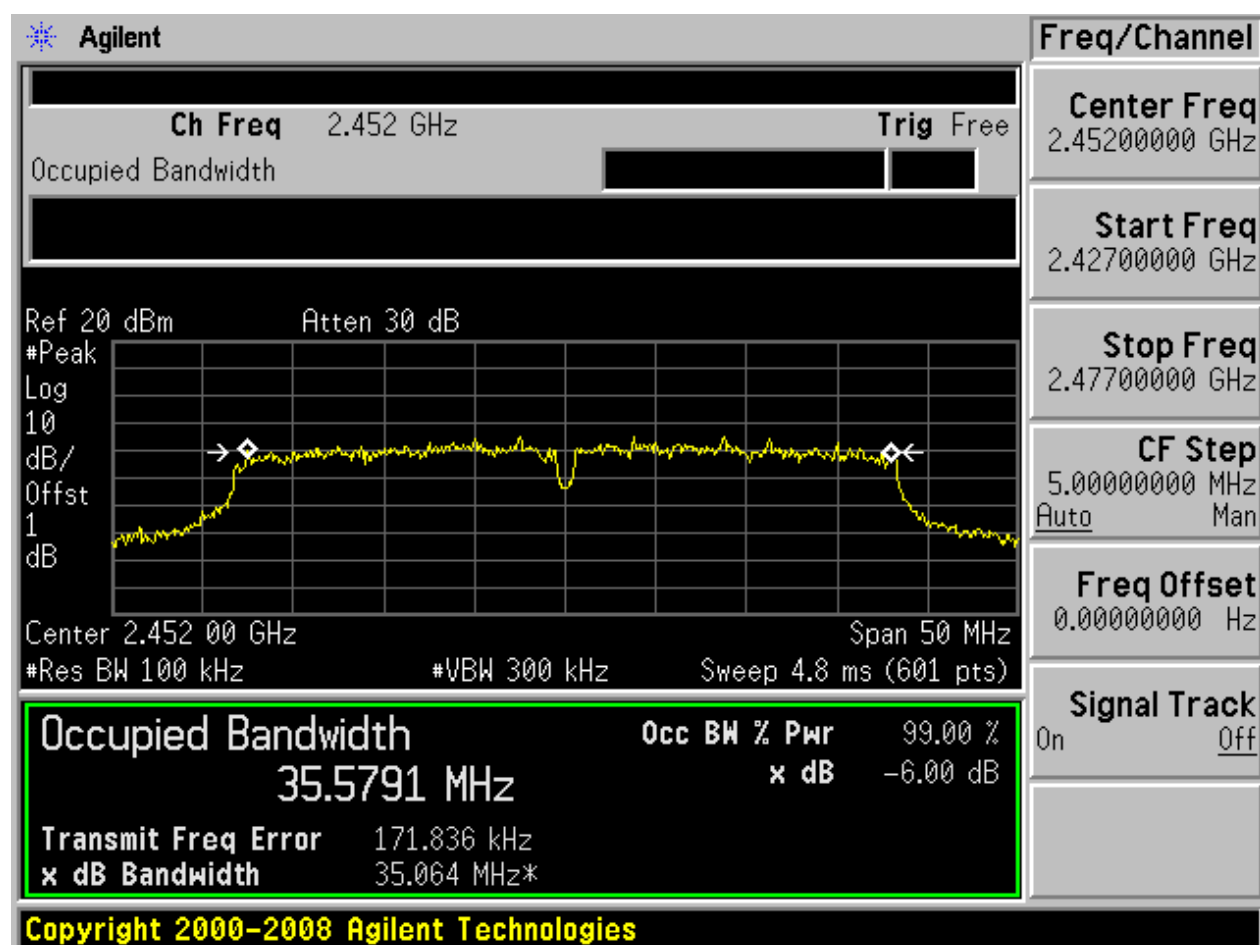


## 2.23 11N40\_H@BG1





## 2.24 11N40\_H@BG2



## Appendix B: Maximum Peak Conducted Output Power

### Test Results

| Test Mode | Test Channel | Frequency[MHz] | Power Mode | Meas. Level (Cond.) [dBm] | Verdict |
|-----------|--------------|----------------|------------|---------------------------|---------|
| 11B       | L            | 2412           | BG1        | 23.75                     | pass    |
| 11B       | L            | 2412           | BG2        | 20.35                     | pass    |
| 11B       | M            | 2437           | BG1        | 24.11                     | pass    |
| 11B       | M            | 2437           | BG2        | 20.53                     | pass    |
| 11B       | H            | 2462           | BG1        | 24.12                     | pass    |
| 11B       | H            | 2462           | BG2        | 20.56                     | pass    |
| 11G       | L            | 2412           | BG1        | 23.85                     | pass    |
| 11G       | L            | 2412           | BG2        | 19.64                     | pass    |
| 11G       | M            | 2437           | BG1        | 24.40                     | pass    |
| 11G       | M            | 2437           | BG2        | 19.82                     | pass    |
| 11G       | H            | 2462           | BG1        | 24.15                     | pass    |
| 11G       | H            | 2462           | BG2        | 20.02                     | pass    |
| 11N20     | L            | 2412           | BG1        | 23.95                     | pass    |
| 11N20     | L            | 2412           | BG2        | 18.96                     | pass    |
| 11N20     | M            | 2437           | BG1        | 24.35                     | pass    |
| 11N20     | M            | 2437           | BG2        | 19.15                     | pass    |
| 11N20     | H            | 2462           | BG1        | 24.38                     | pass    |
| 11N20     | H            | 2462           | BG2        | 19.39                     | pass    |
| 11N40     | L            | 2422           | BG1        | 22.95                     | pass    |
| 11N40     | L            | 2422           | BG2        | 23.31                     | pass    |
| 11N40     | M            | 2437           | BG1        | 23.05                     | pass    |
| 11N40     | M            | 2437           | BG2        | 19.92                     | pass    |
| 11N40     | H            | 2452           | BG1        | 20.12                     | pass    |
| 11N40     | H            | 2452           | BG2        | 20.21                     | pass    |

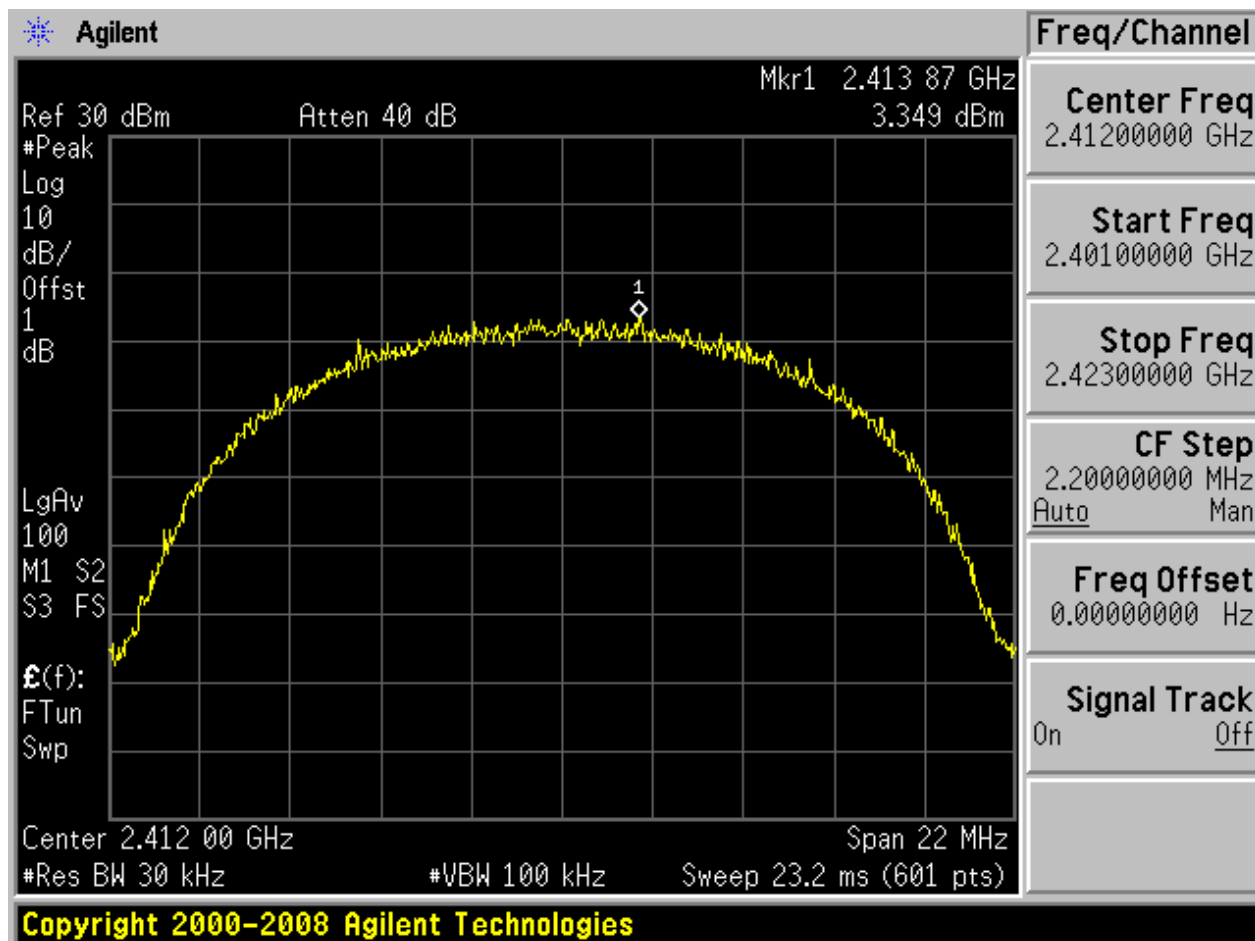
## Appendix C: Maximum Power Spectral Density Level

### Part I - Test Results

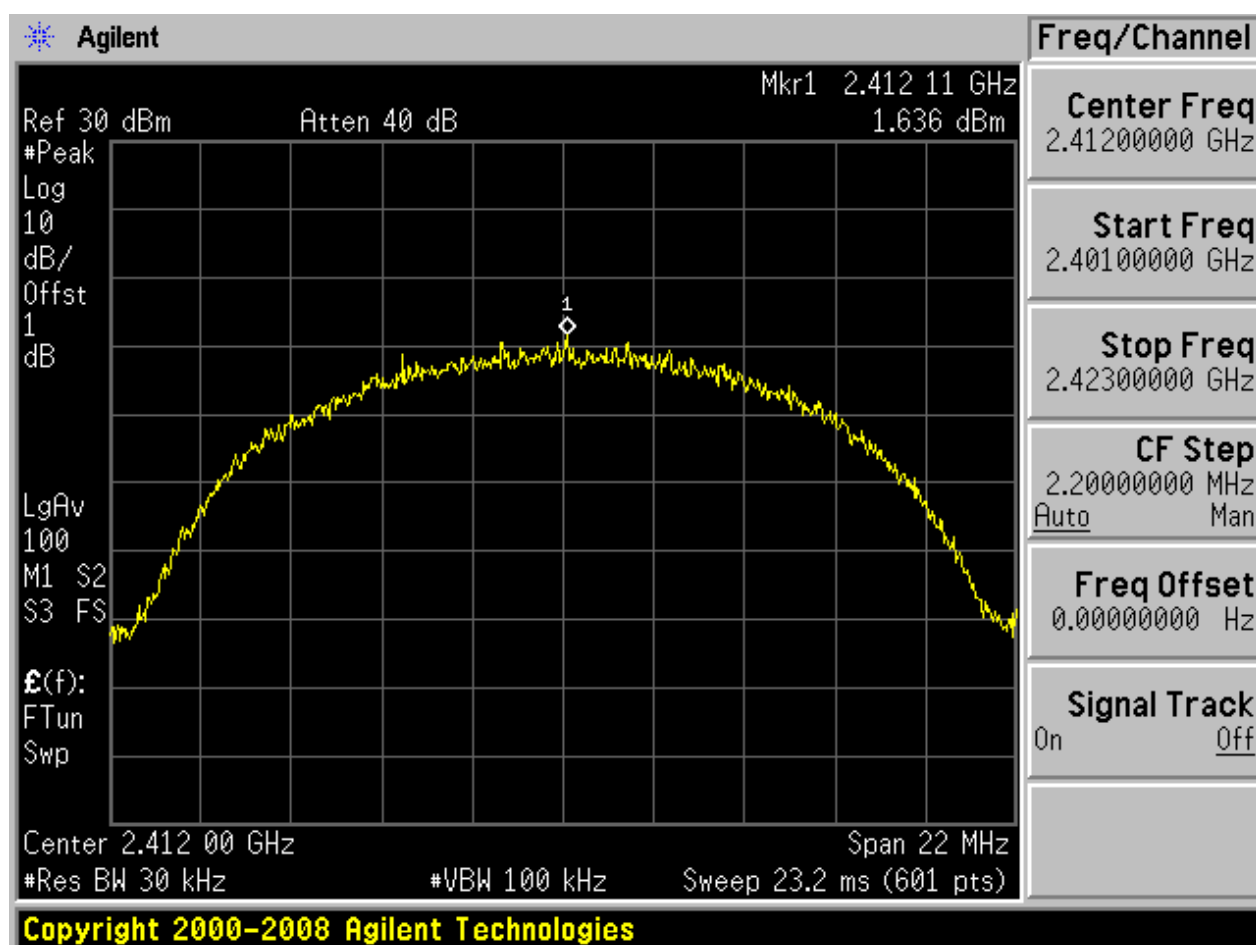
| Test Mode | Test Channel | Frequency[MHz] | Power Mode | PD[MHz] | Verdict |
|-----------|--------------|----------------|------------|---------|---------|
| 11B       | L            | 2412           | BG1        | 3.35    | pass    |
| 11B       | L            | 2412           | BG2        | 1.64    | pass    |
| 11B       | M            | 2437           | BG1        | 4.61    | pass    |
| 11B       | M            | 2437           | BG2        | 1.06    | pass    |
| 11B       | H            | 2462           | BG1        | 4.51    | pass    |
| 11B       | H            | 2462           | BG2        | 1.68    | pass    |
| 11G       | L            | 2412           | BG1        | -0.62   | pass    |
| 11G       | L            | 2412           | BG2        | -3.68   | pass    |
| 11G       | M            | 2437           | BG1        | 0.05    | pass    |
| 11G       | M            | 2437           | BG2        | -3.79   | pass    |
| 11G       | H            | 2462           | BG1        | 0.39    | pass    |
| 11G       | H            | 2462           | BG2        | -3.34   | pass    |
| 11N20     | L            | 2412           | BG1        | 0.06    | pass    |
| 11N20     | L            | 2412           | BG2        | -5.13   | pass    |
| 11N20     | M            | 2437           | BG1        | 0.59    | pass    |
| 11N20     | M            | 2437           | BG2        | -4.32   | pass    |
| 11N20     | H            | 2462           | BG1        | 0.76    | pass    |
| 11N20     | H            | 2462           | BG2        | -4.42   | pass    |
| 11N40     | L            | 2422           | BG1        | -5.04   | pass    |
| 11N40     | L            | 2422           | BG2        | -8.27   | pass    |
| 11N40     | M            | 2437           | BG1        | -4.78   | pass    |
| 11N40     | M            | 2437           | BG2        | -7.88   | pass    |
| 11N40     | H            | 2452           | BG1        | -4.67   | pass    |
| 11N40     | H            | 2452           | BG2        | -7.83   | pass    |

## Part II - Test Plots

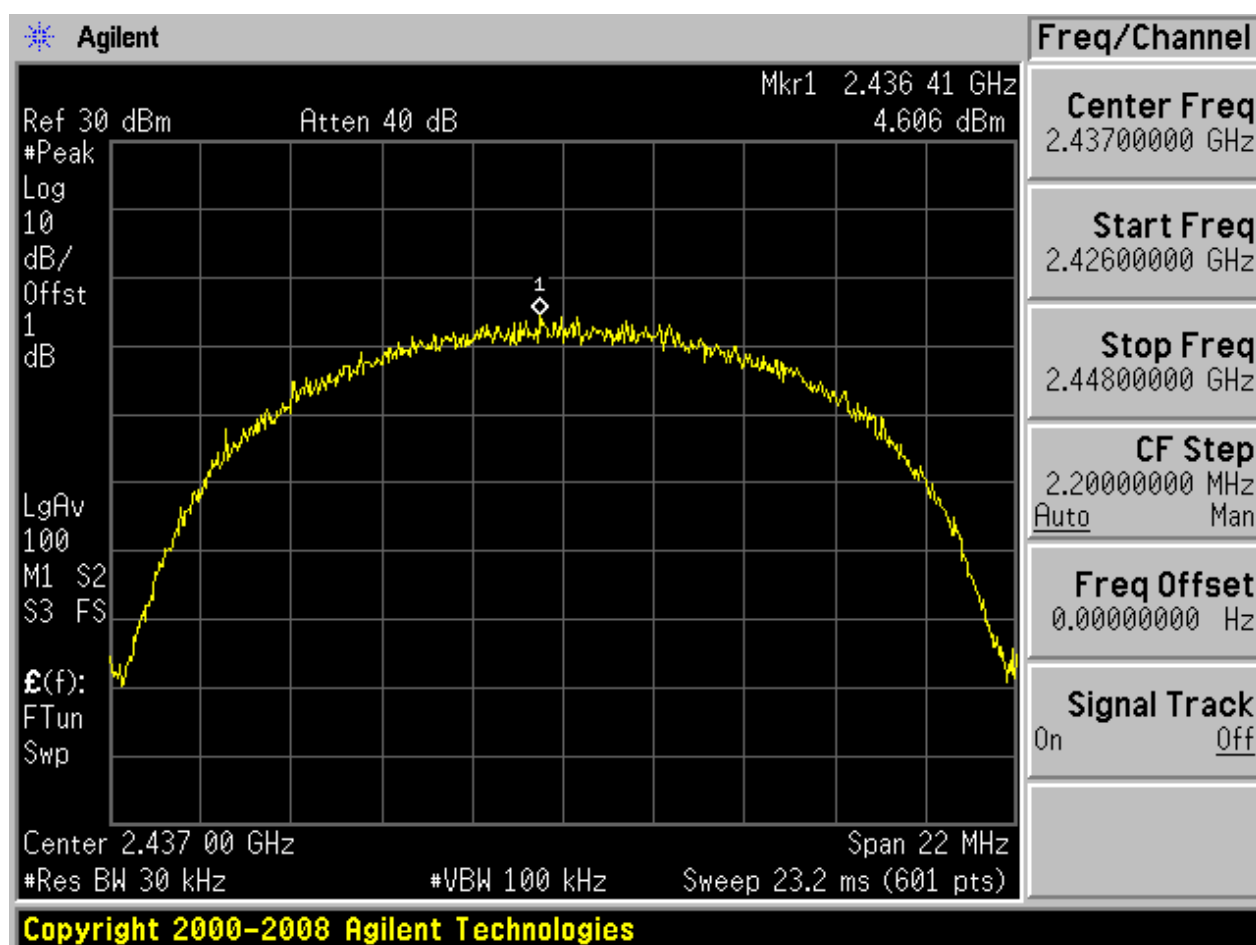
### 2.1 11B\_L@BG1



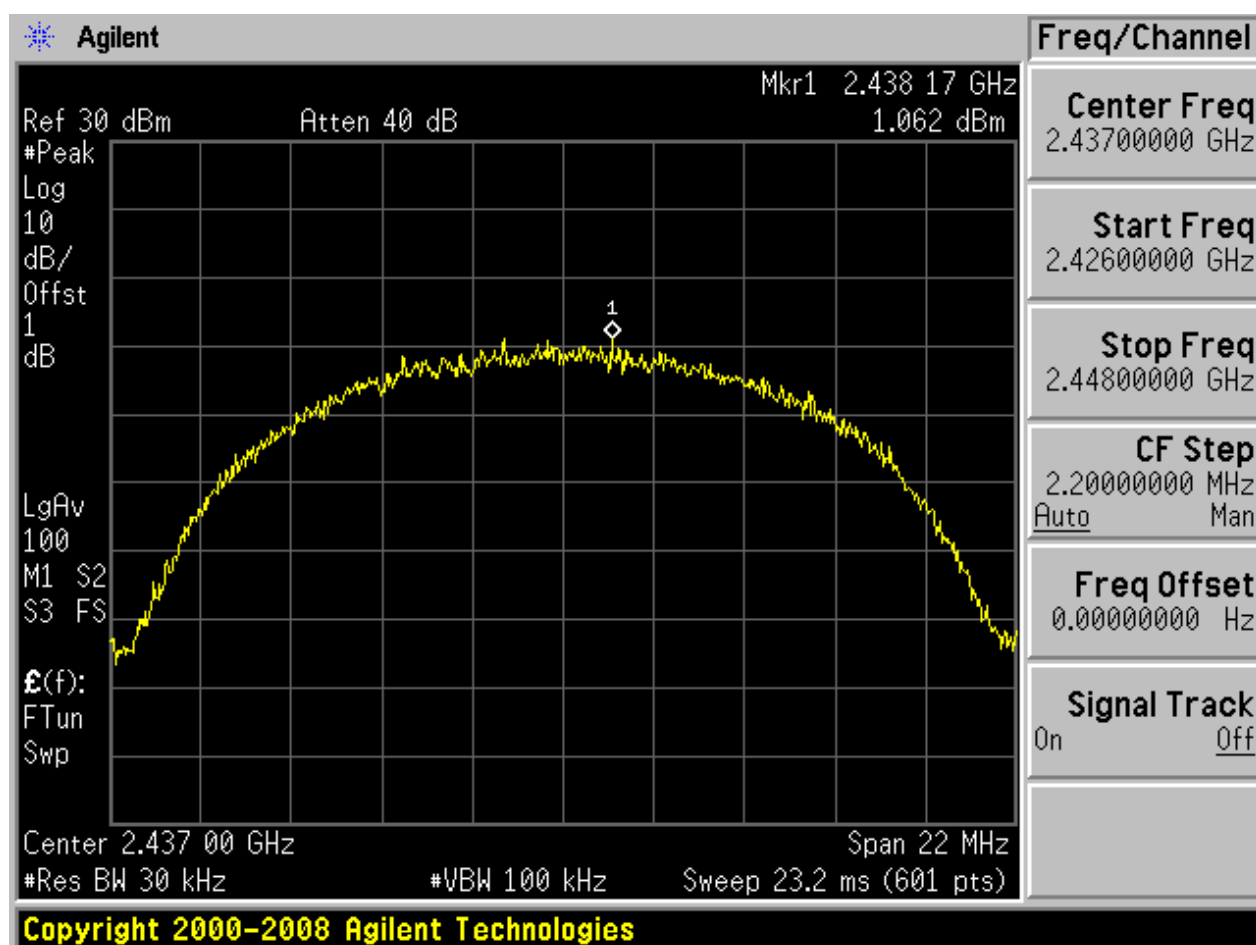
## 2.2 11B\_L@BG2



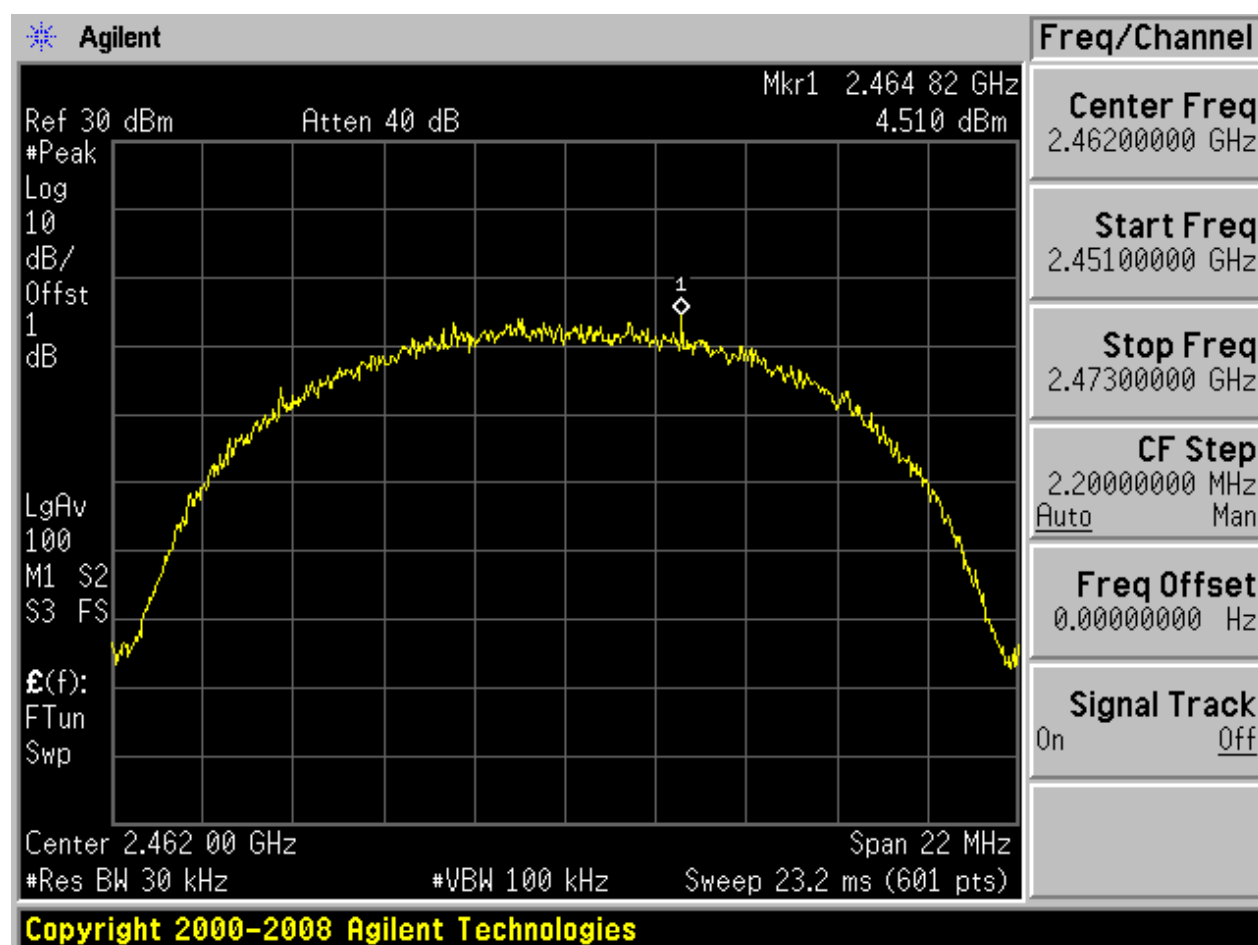
## 2.3 11B\_M@BG1



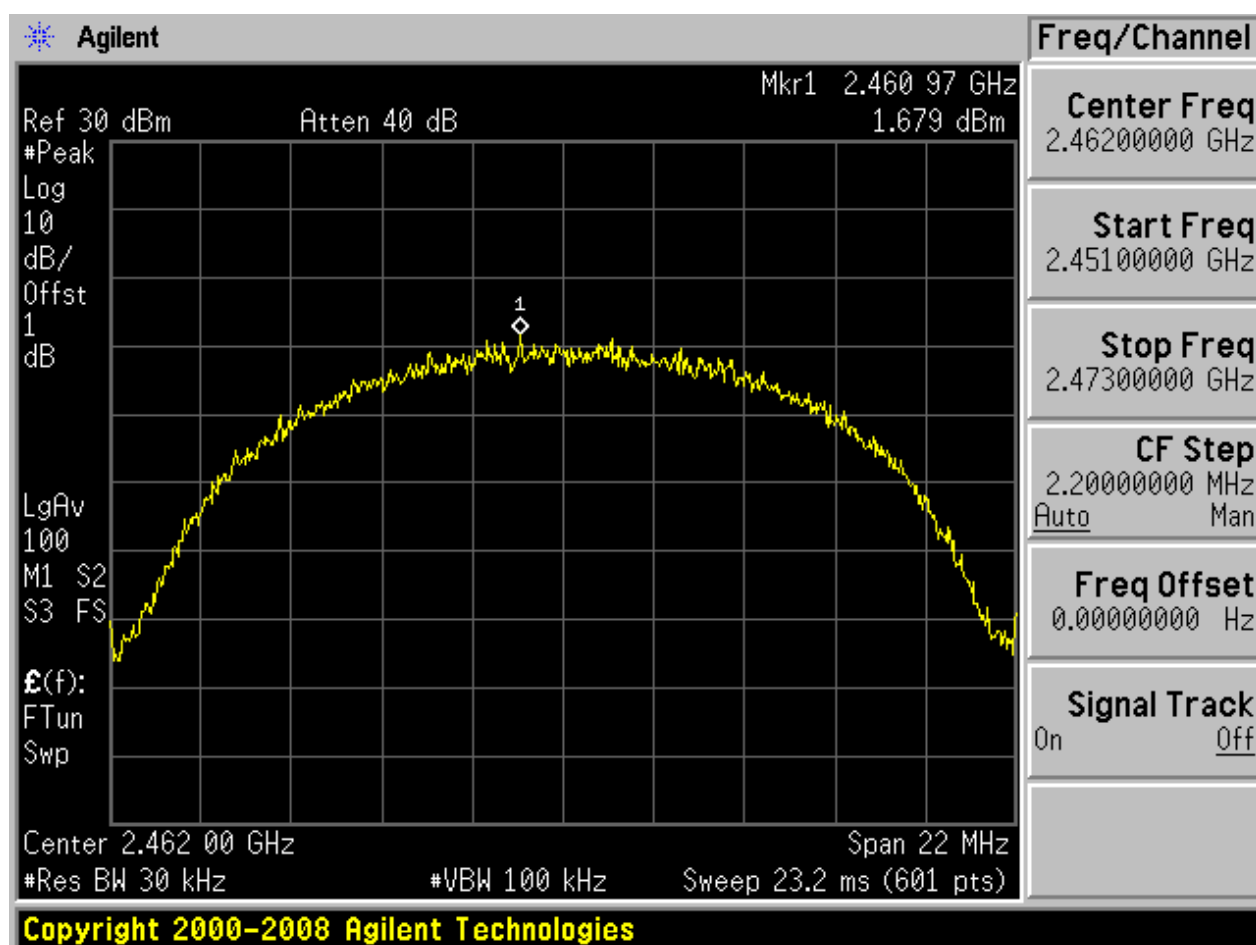
## 2.4 11B\_M@BG2



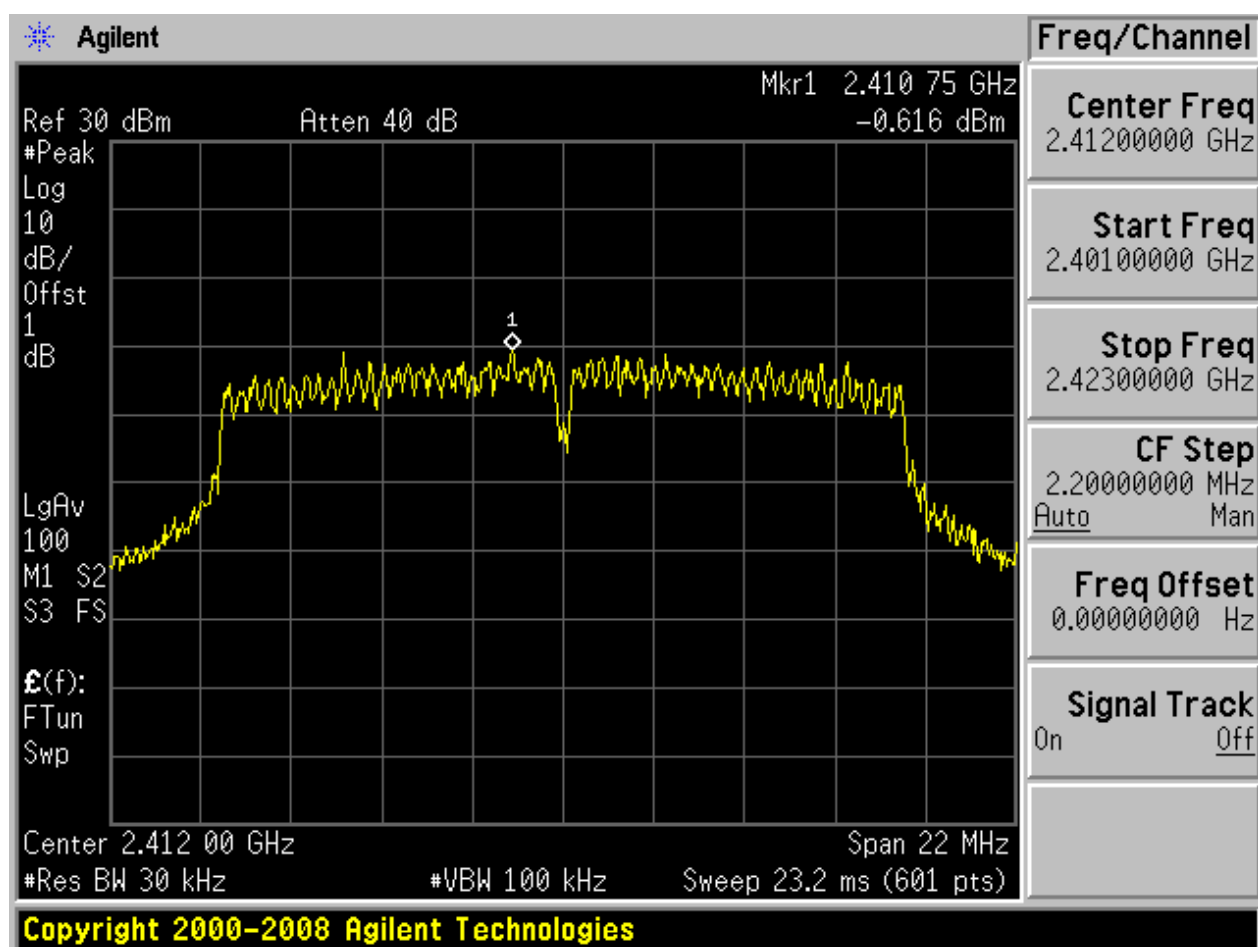
## 2.5 11B\_H@BG1



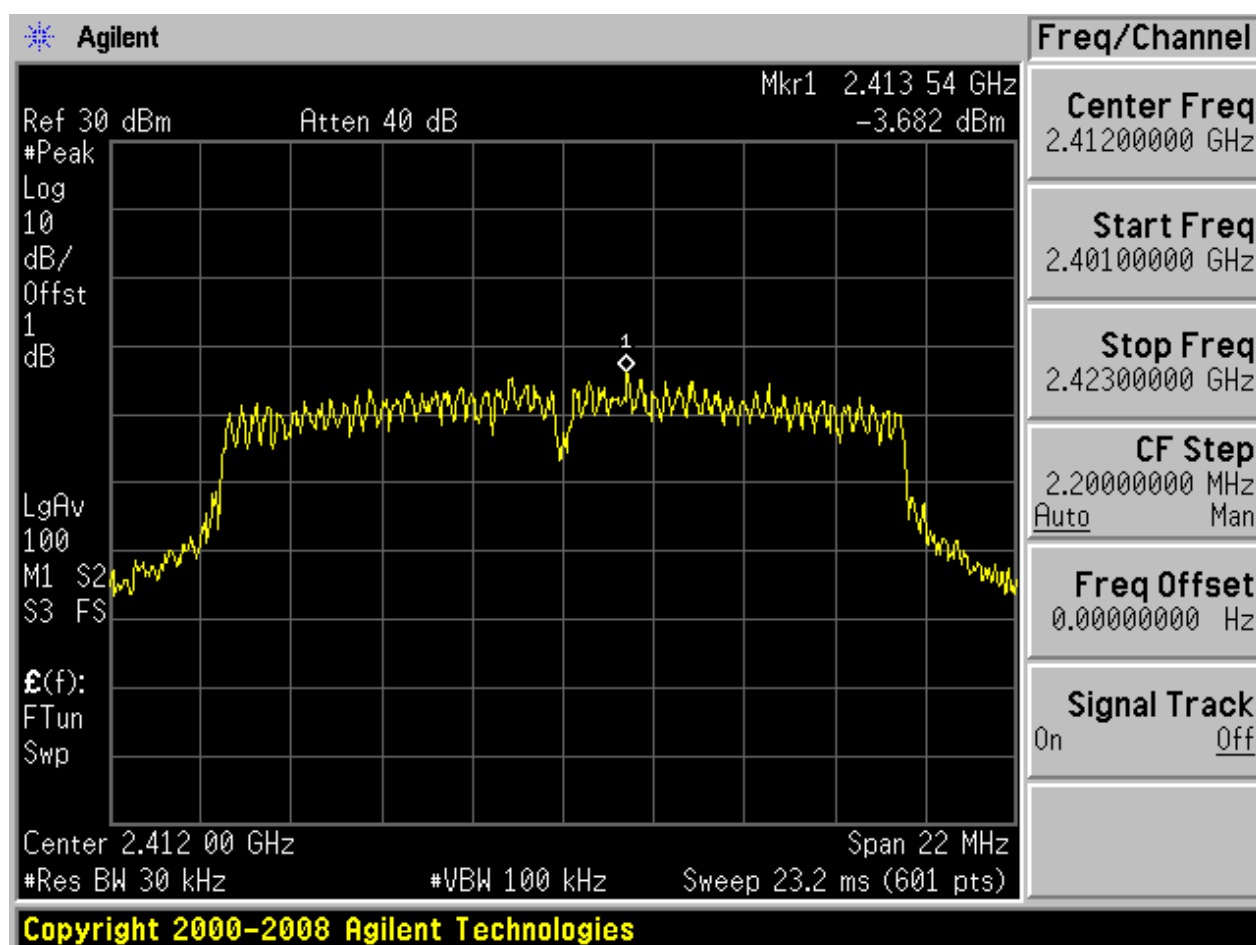
## 2.6 11B\_H@BG2



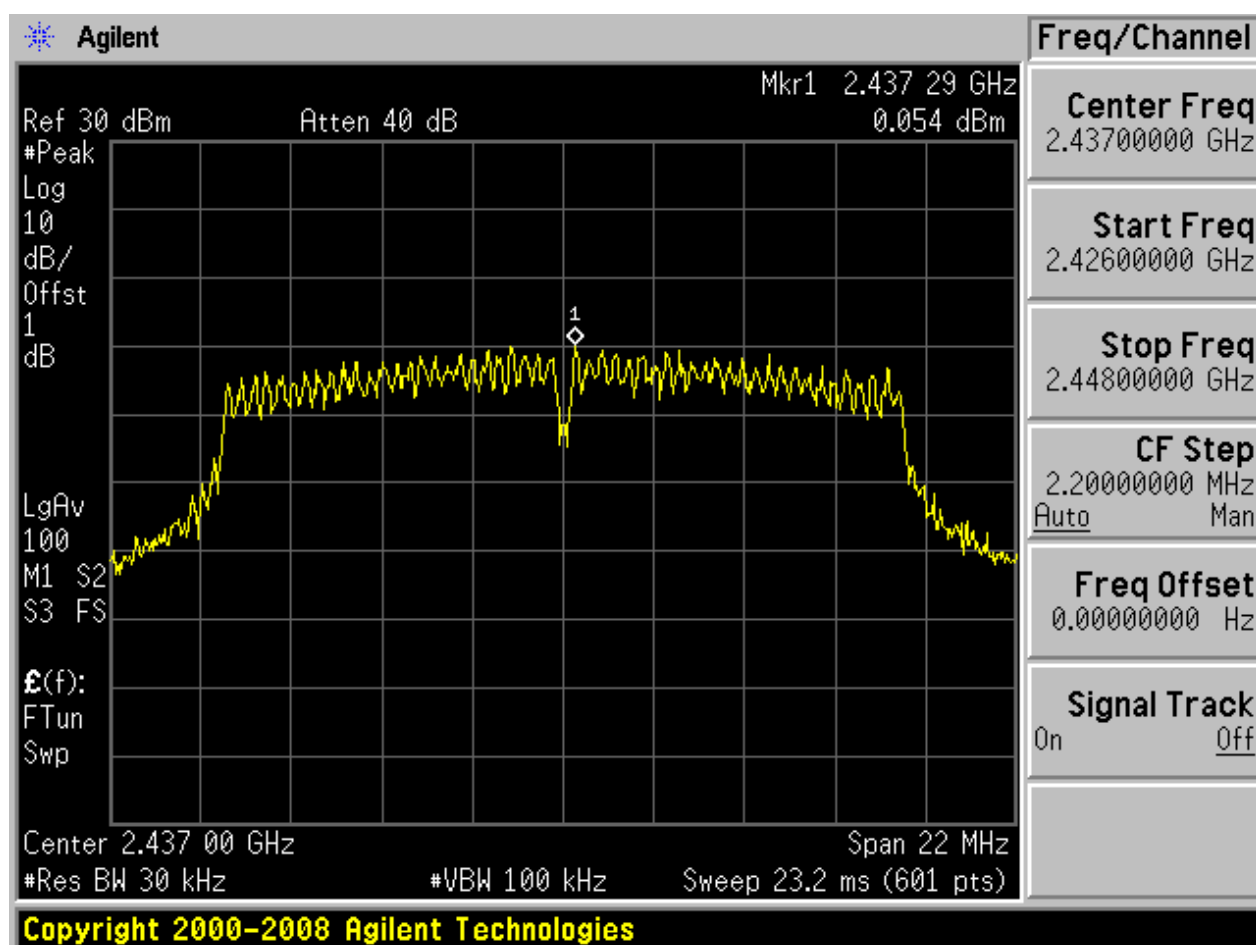
## 2.7 11G\_L@BG1



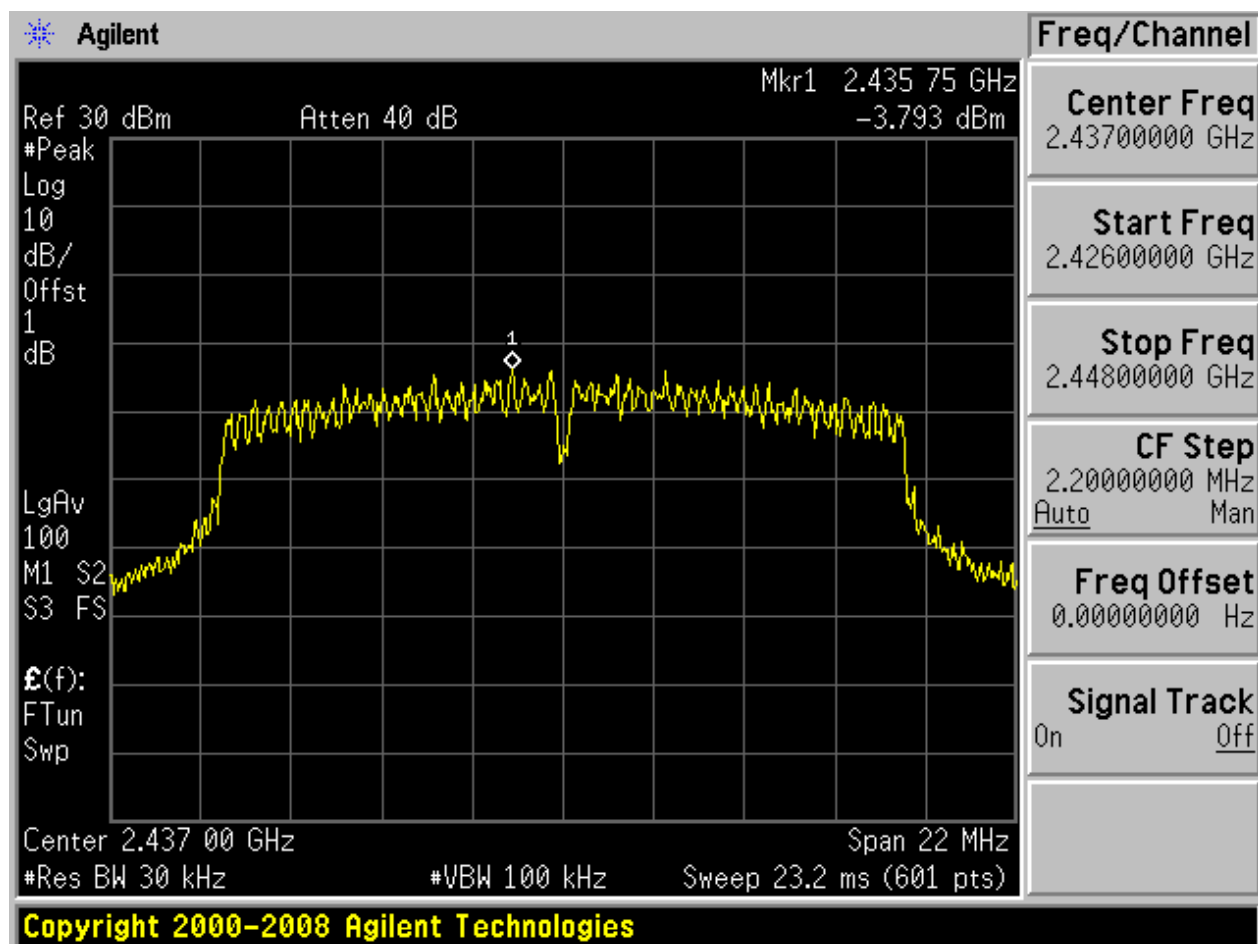
## 2.8 11G\_L@BG2



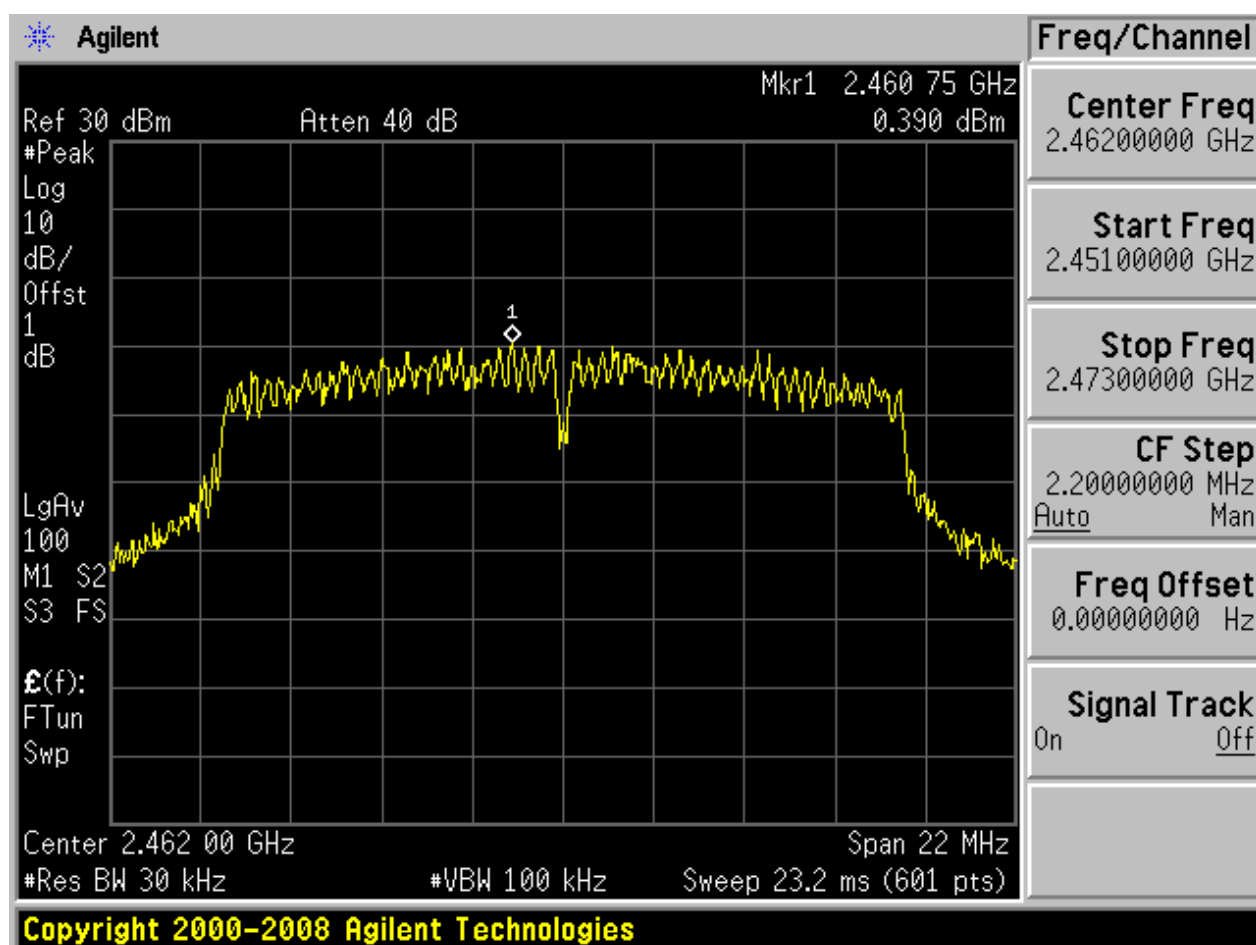
## 2.9 11G\_M@BG1



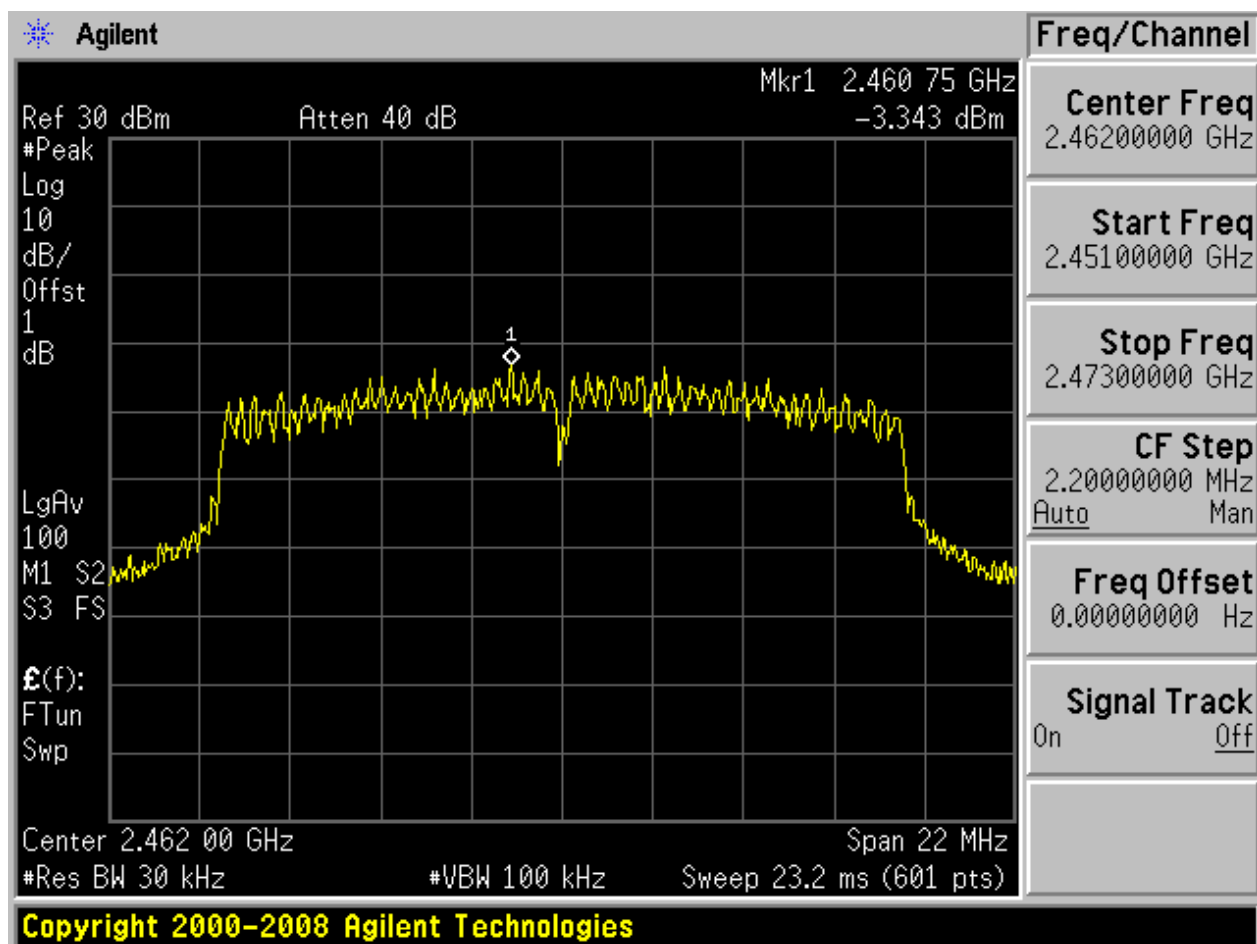
## 2.10 11G\_M@BG2



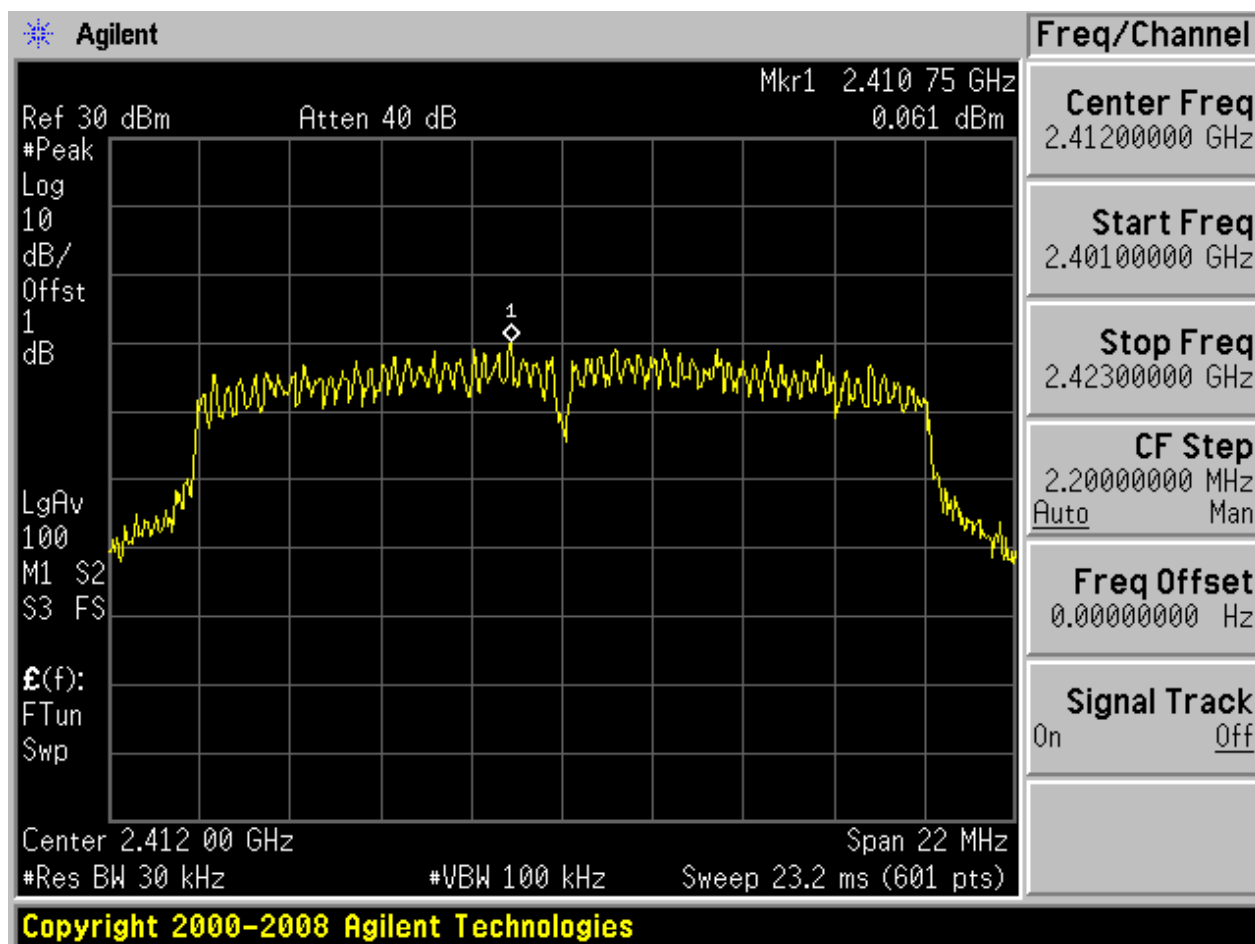
## 2.11 11G\_H@BG1



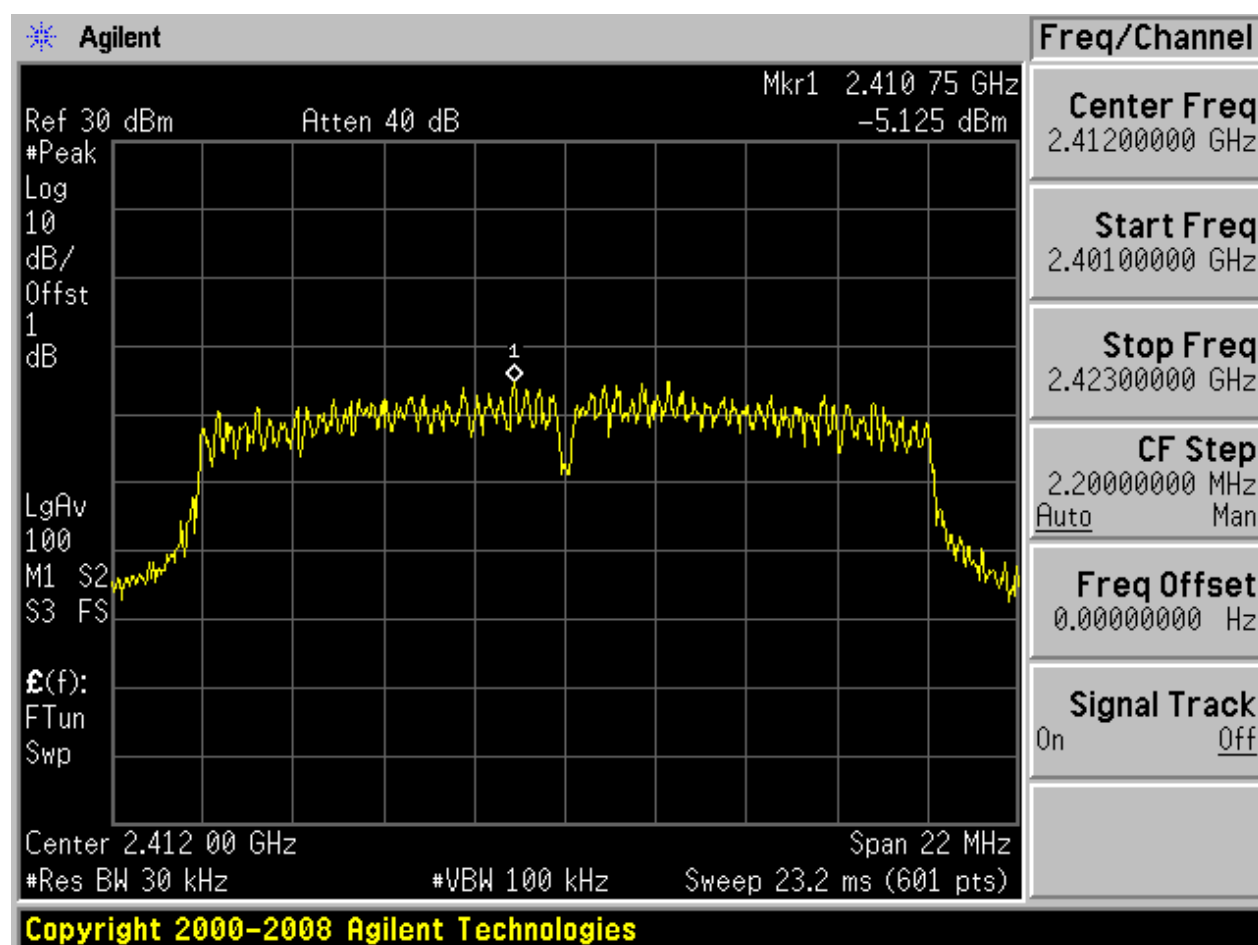
## 2.12 11G\_H@BG2



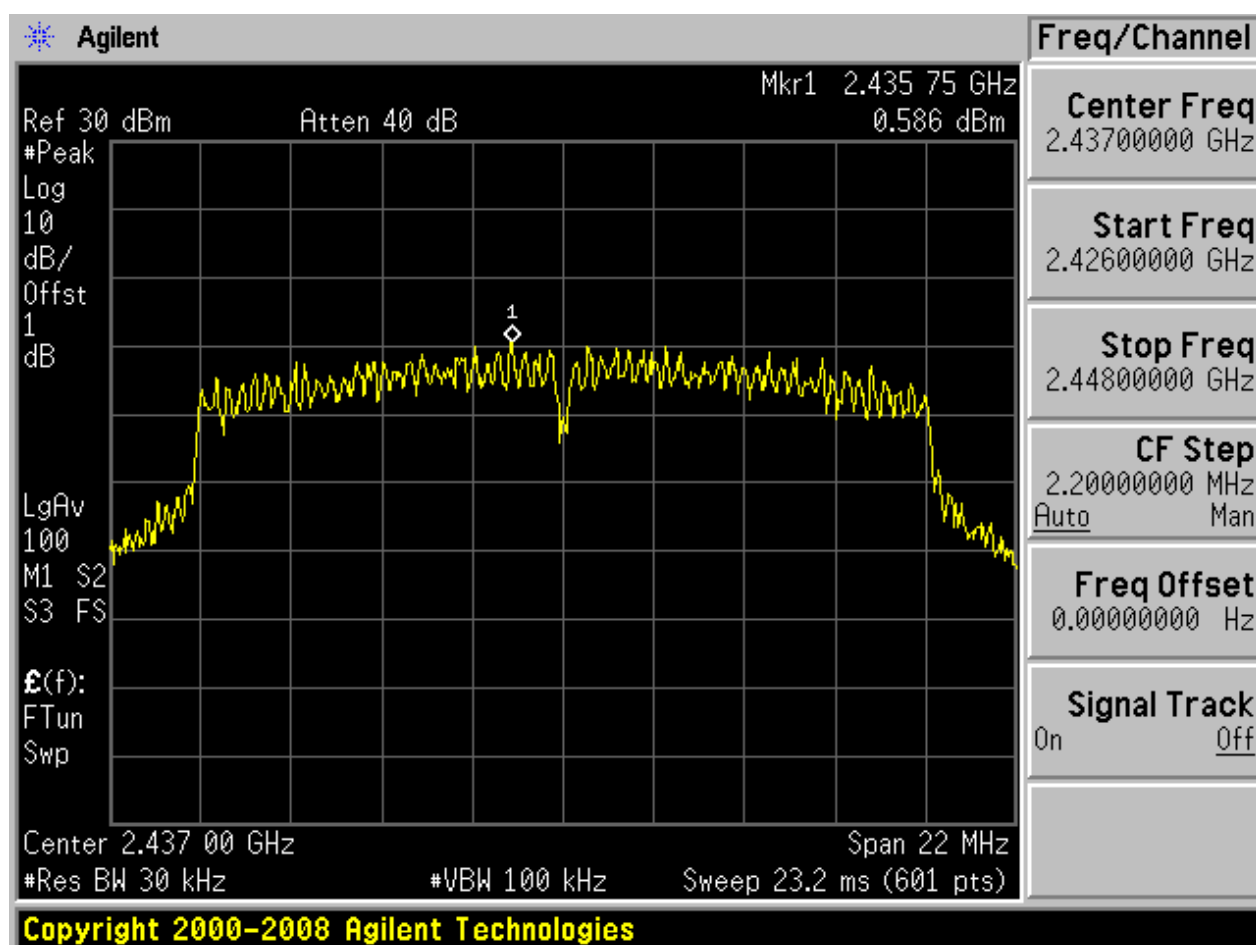
## 2.13 11N20\_L@BG1



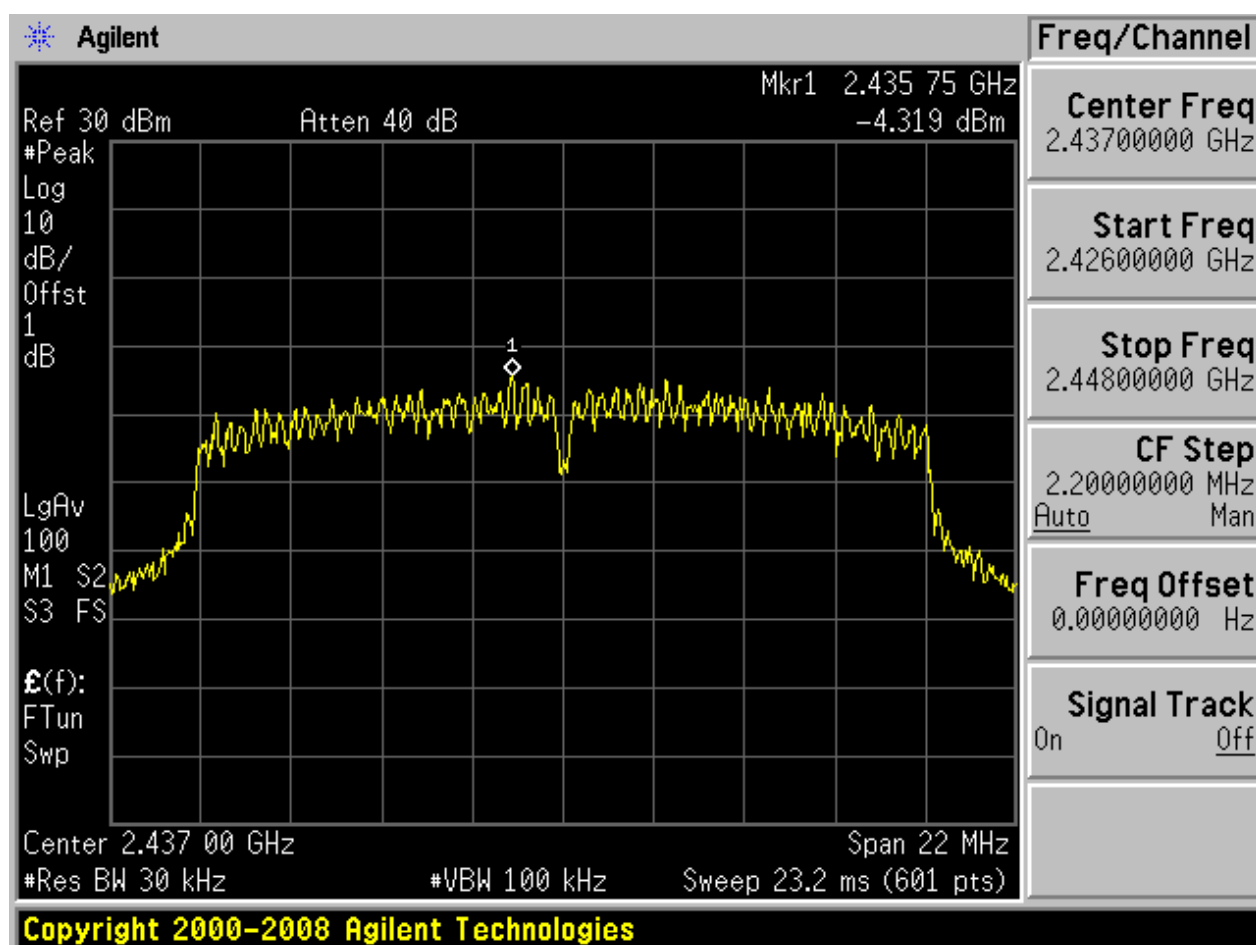
## 2.14 11N20\_L@BG2



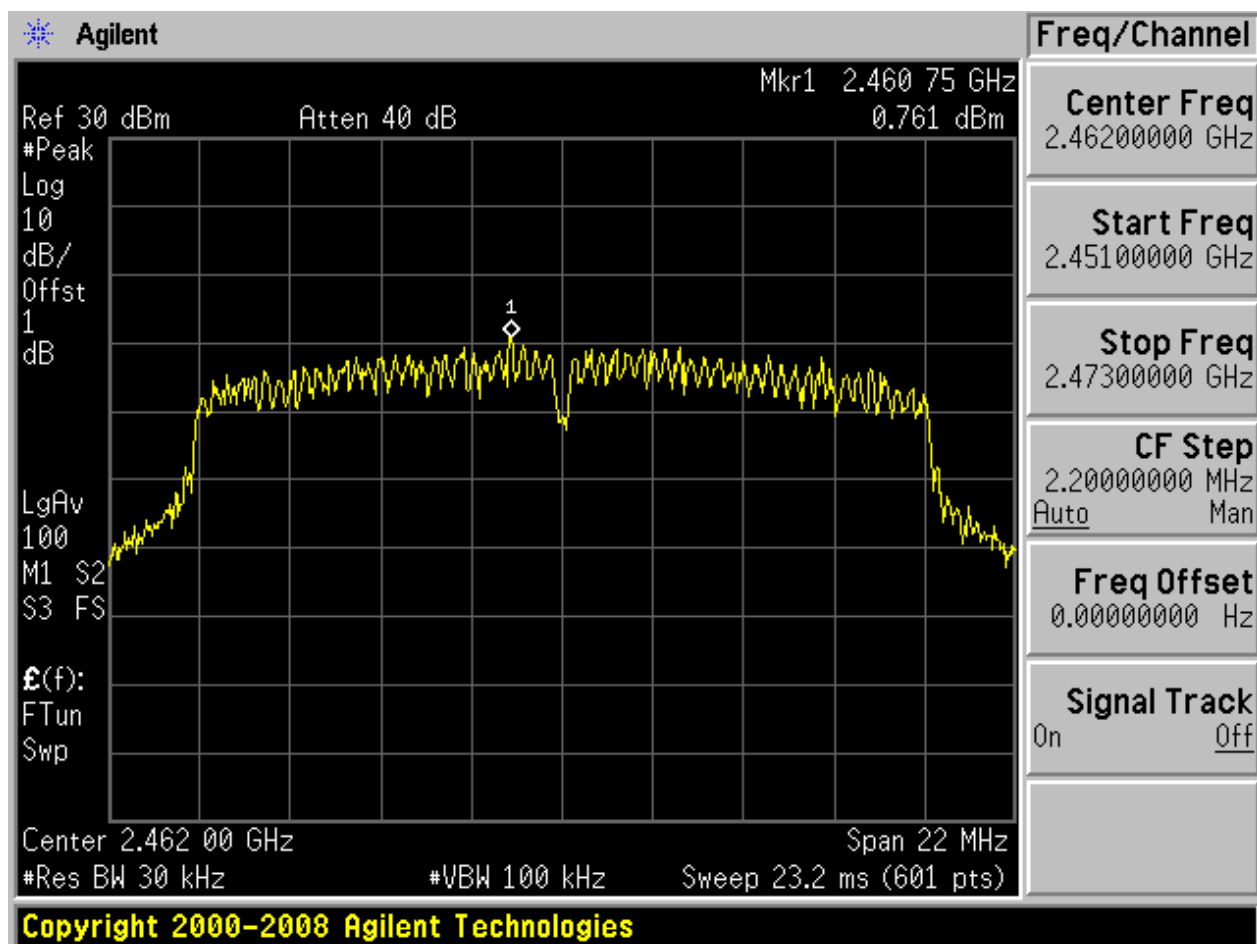
## 2.15 11N20\_M@BG1



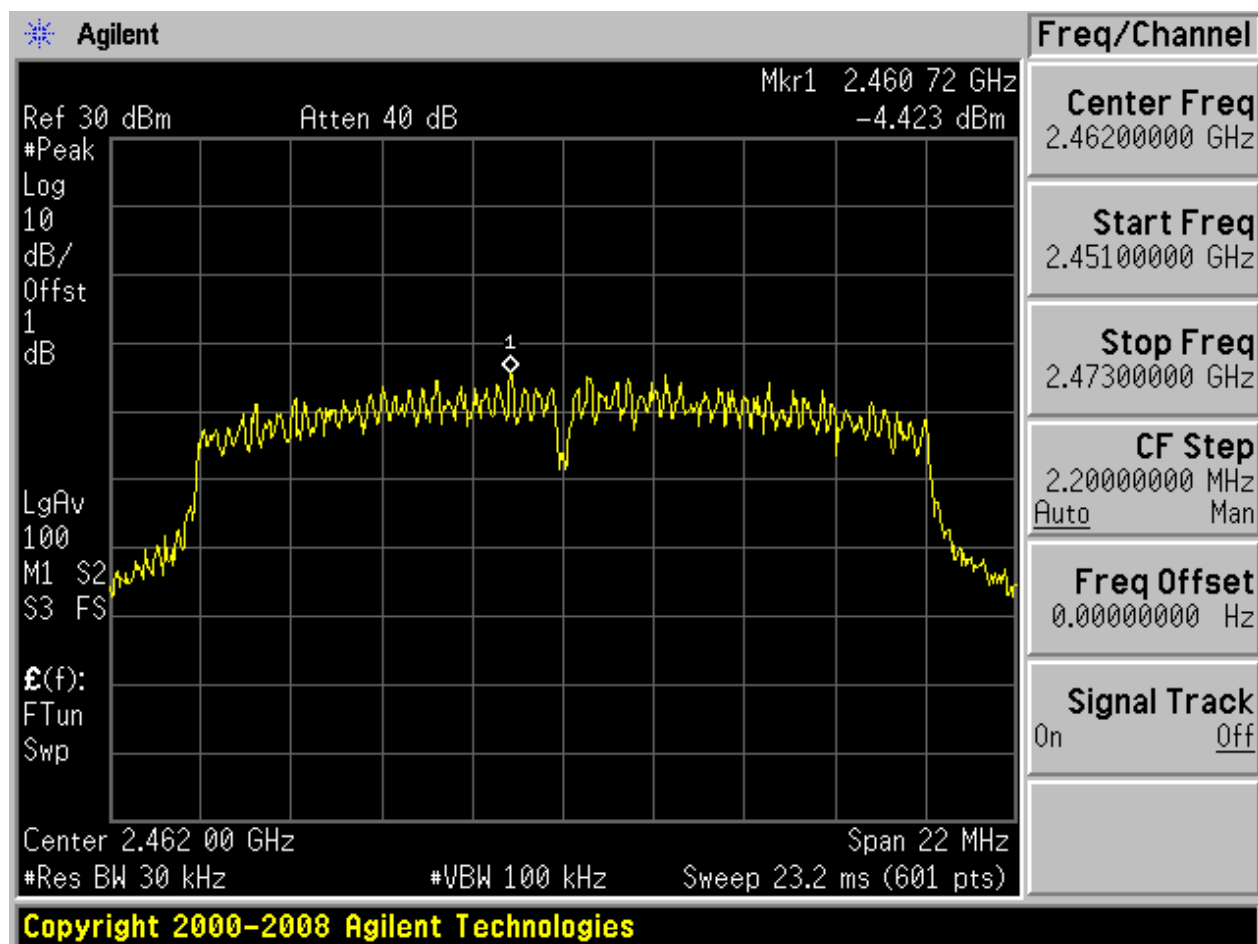
## 2.16 11N20\_M@BG2



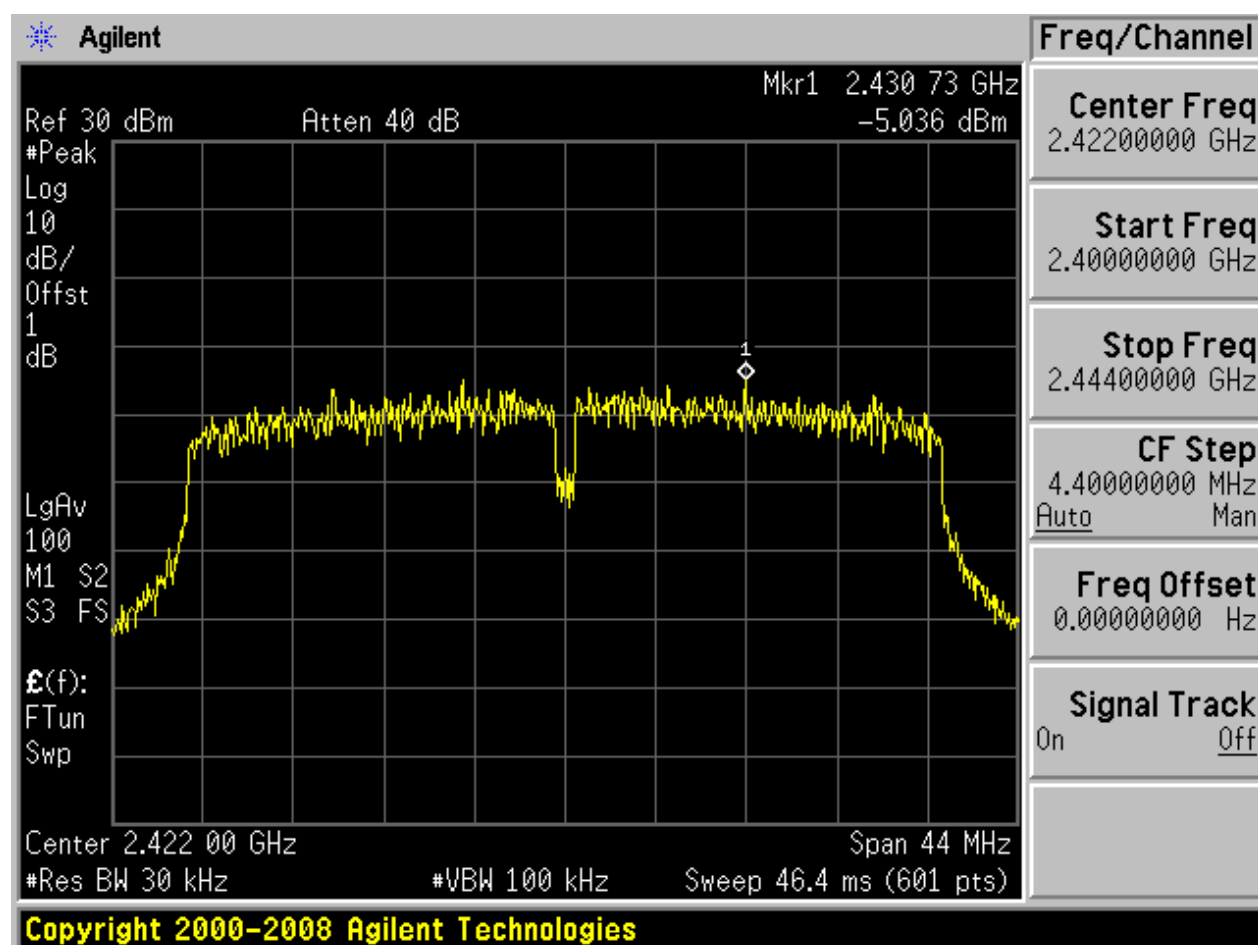
## 2.17 11N20\_H@BG1



## 2.18 11N20\_H@BG2

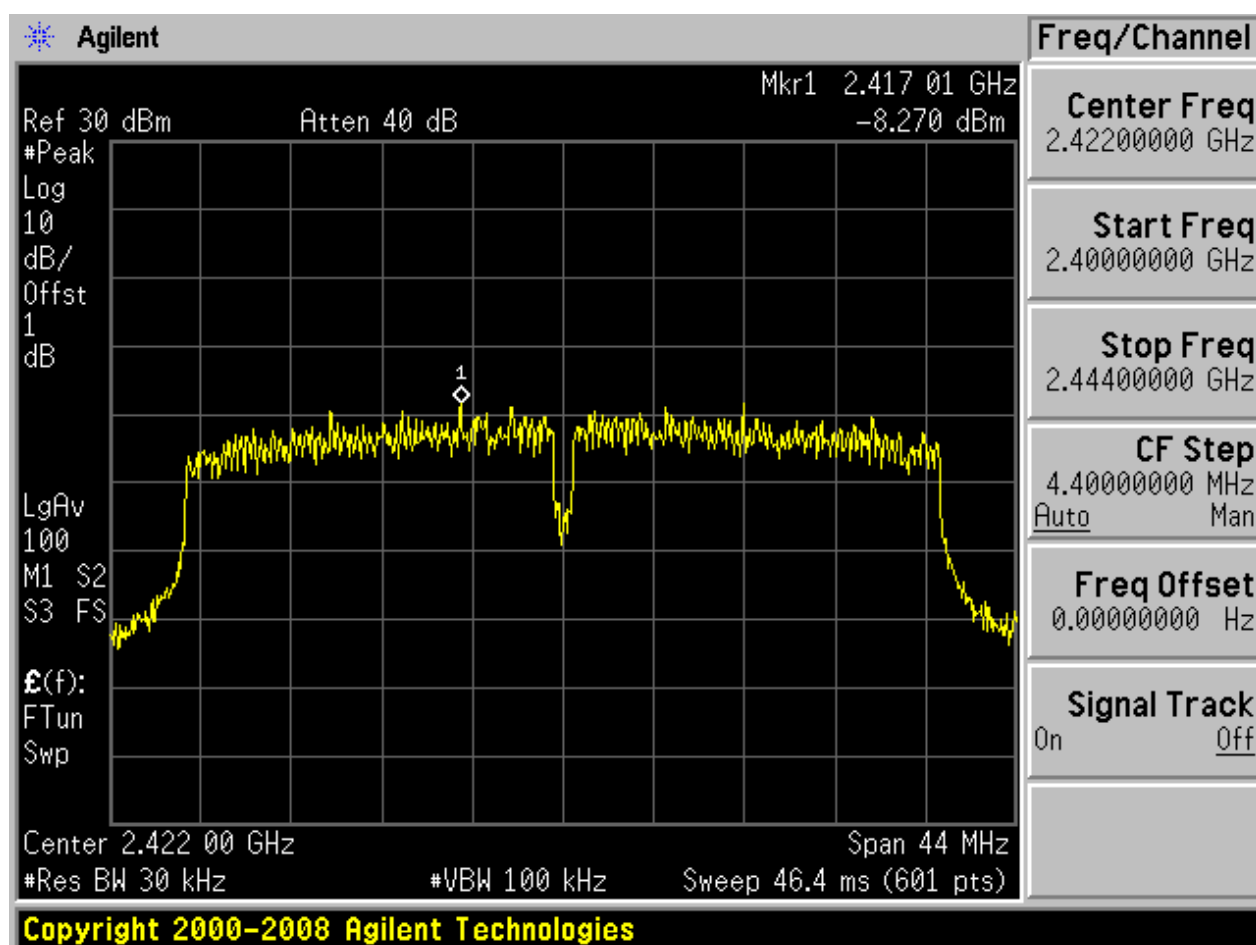


## 2.19 11N40\_L@BG1

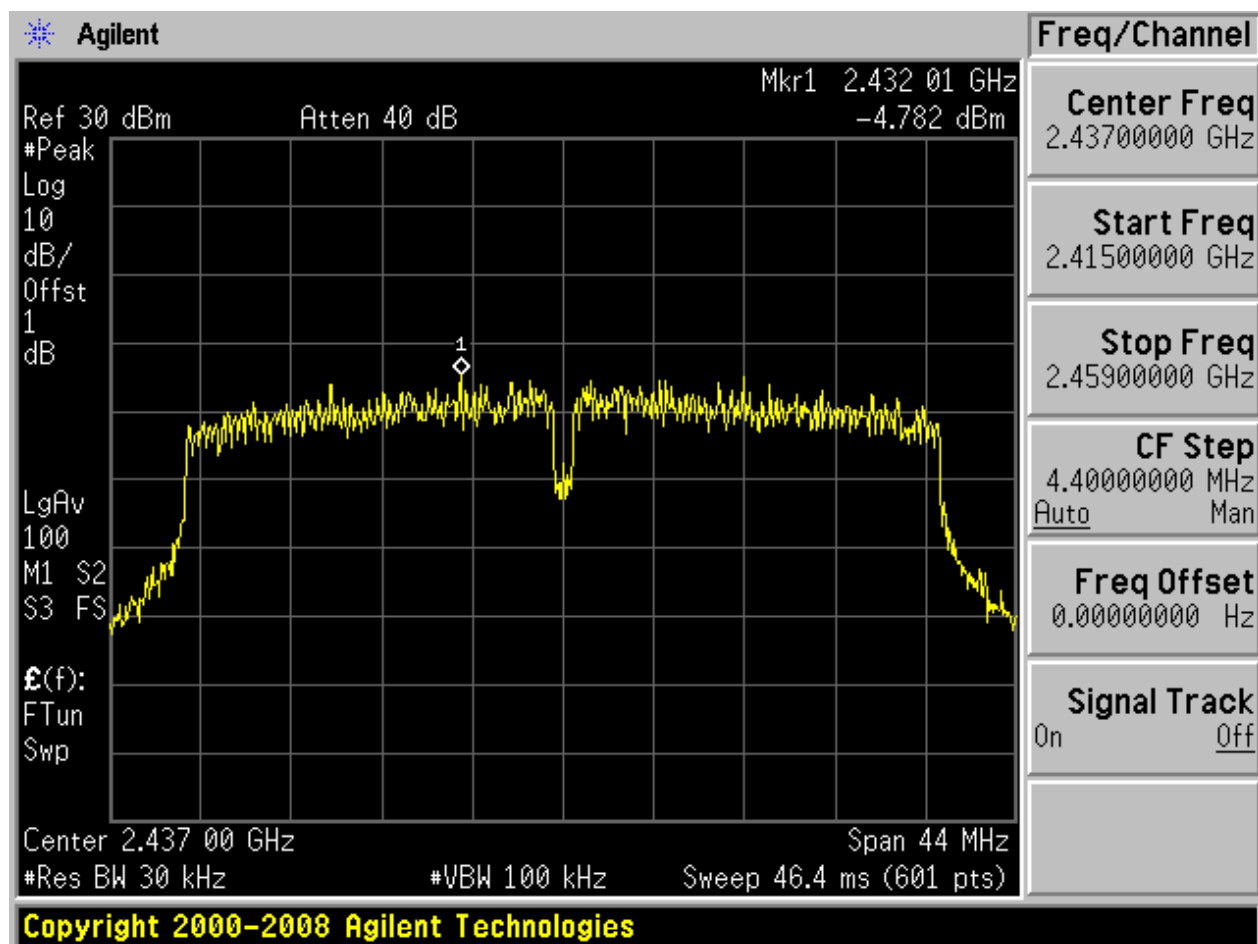




## 2.20 11N40\_L@BG2

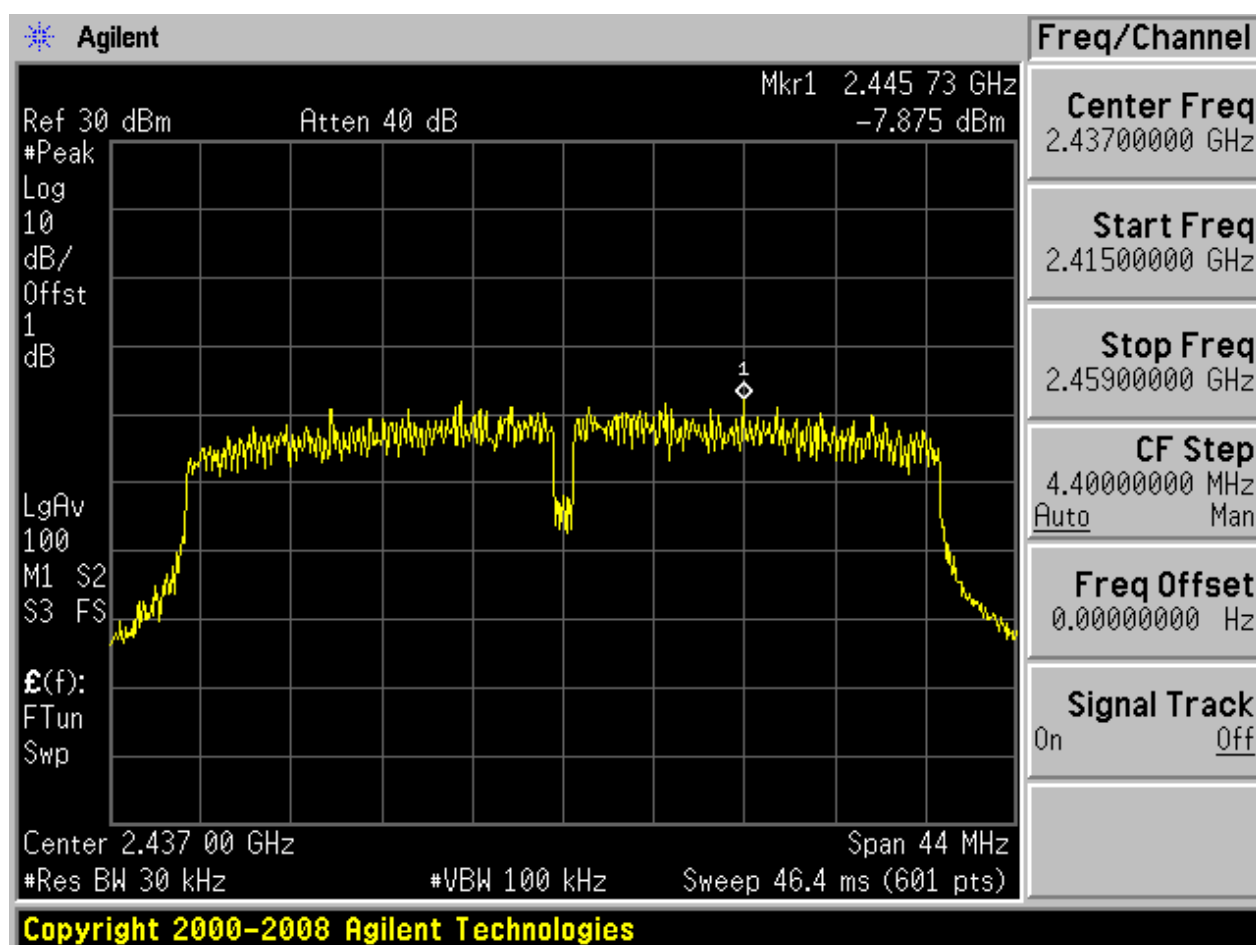


## 2.21 11N40\_M@BG1

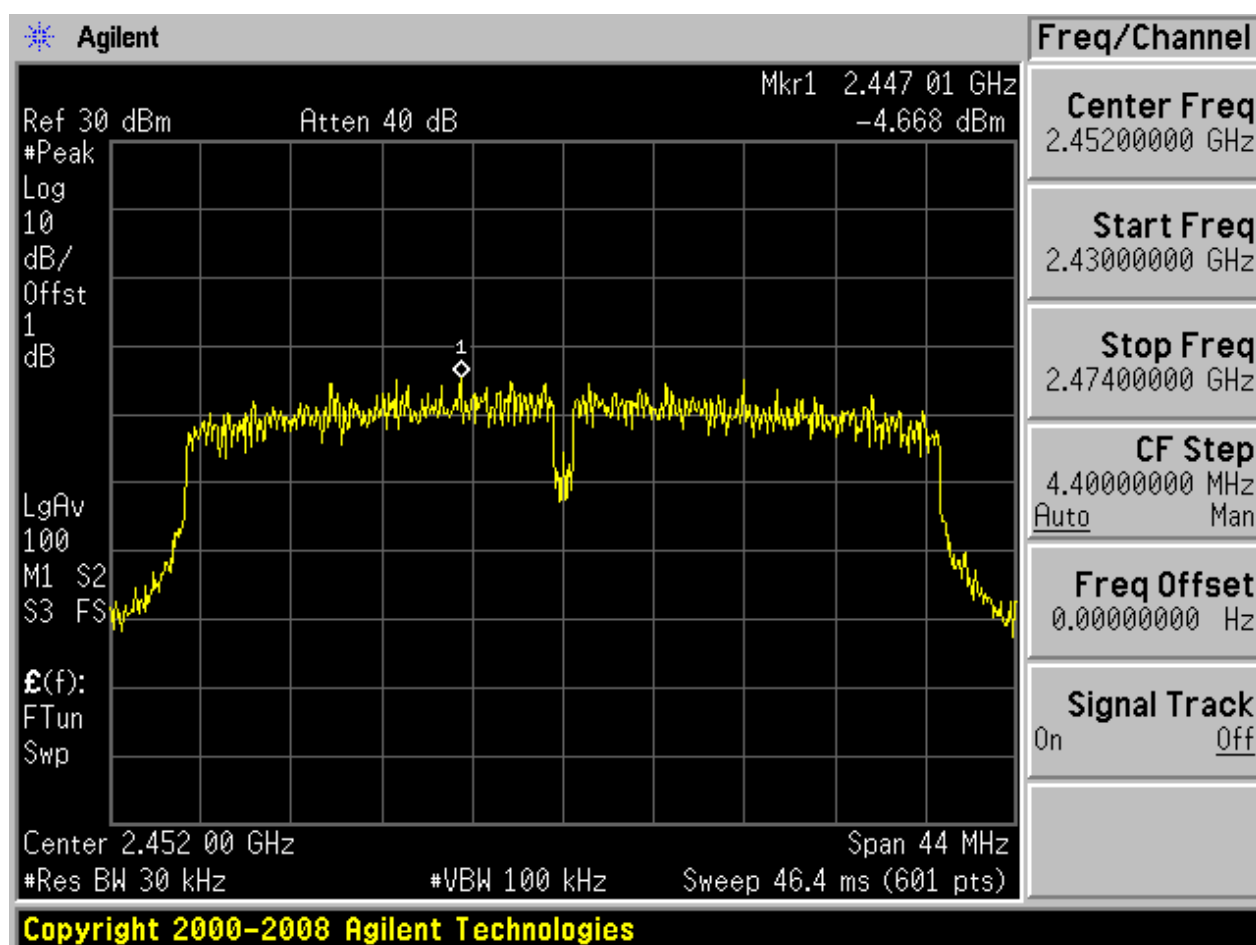




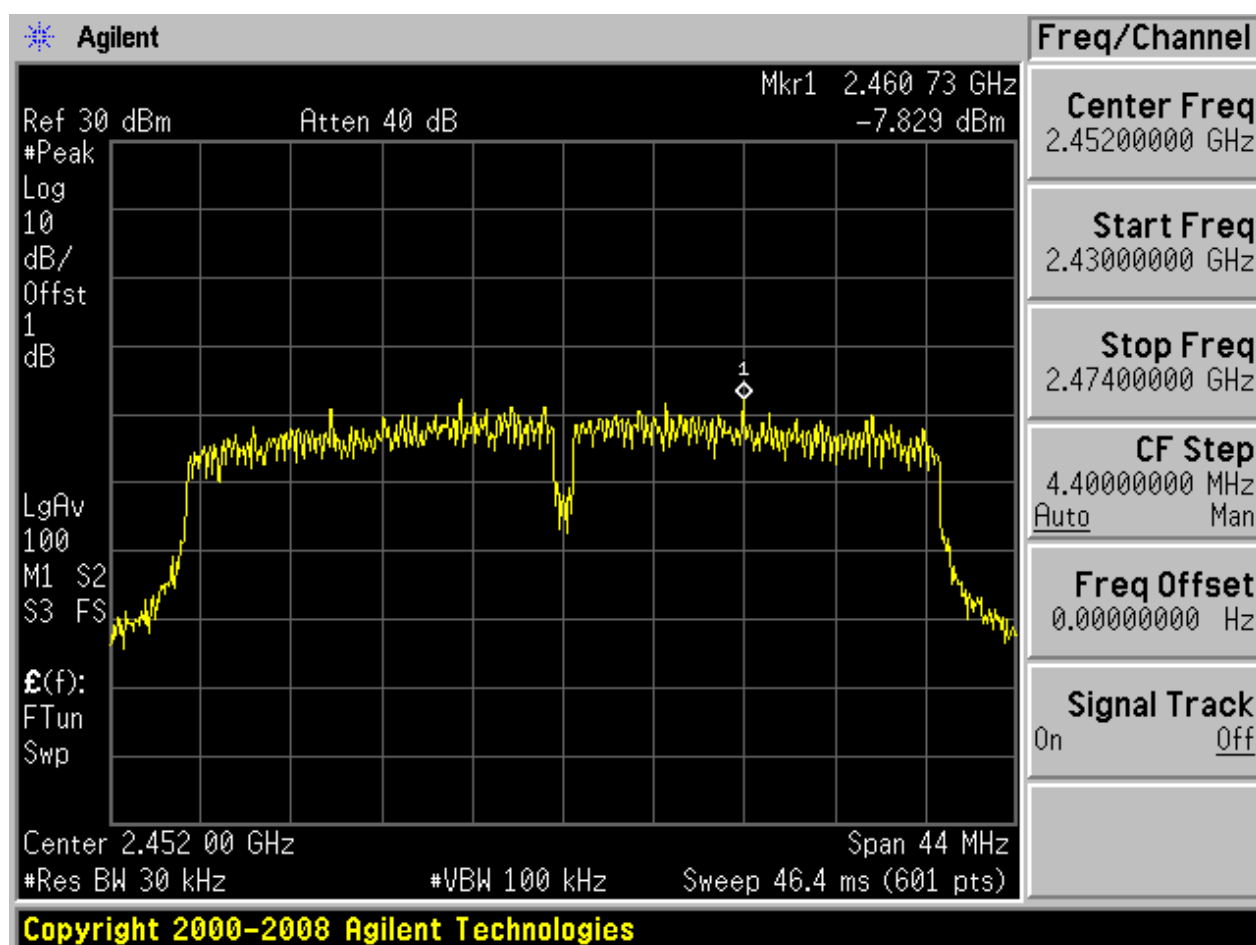
## 2.22 11N40\_M@BG2



## 2.23 11N40\_H@BG1



## 2.24 11N40\_H@BG2



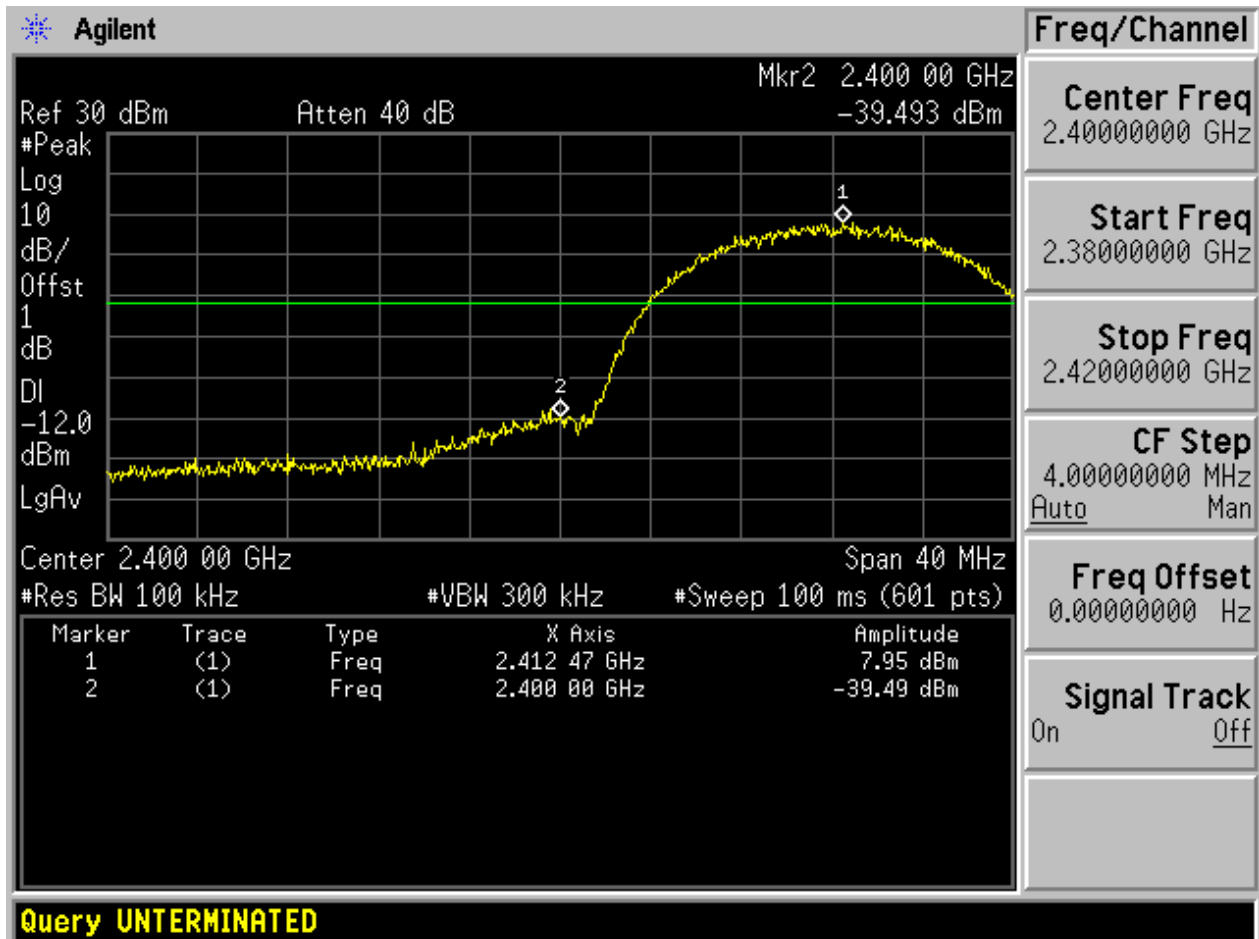
## Appendix D: Band Edges Compliance

### Part I - Test Results

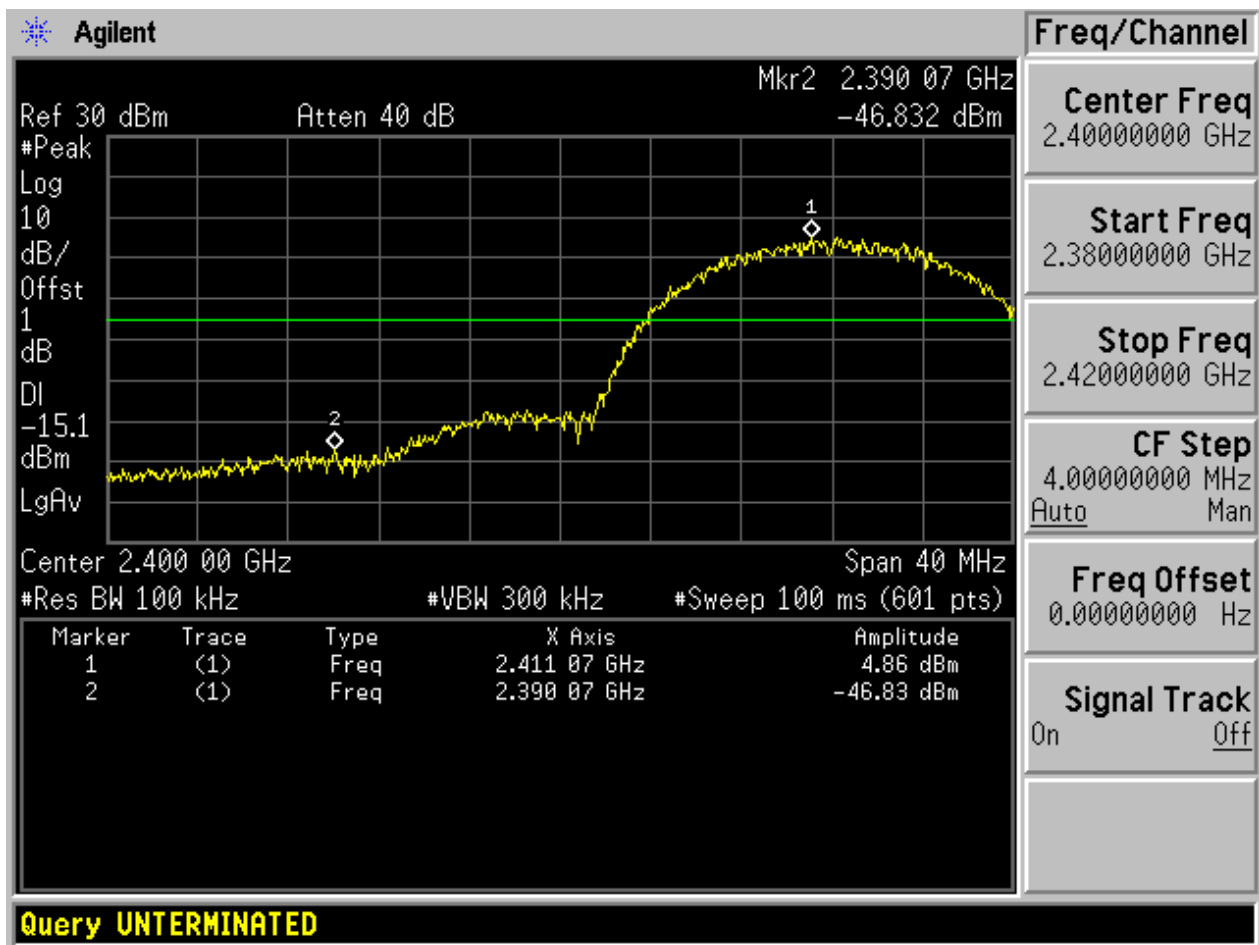
| Test Mode | Test Channel | Frequency[MHz] | Power Mode | Carrier Power[dBm] | Max.Spurious Level[dBm] | Verdict |
|-----------|--------------|----------------|------------|--------------------|-------------------------|---------|
| 11B       | L            | 2412           | BG1        | 7.95               | -39.49                  | pass    |
| 11B       | L            | 2412           | BG2        | 4.86               | -46.83                  | pass    |
| 11B       | H            | 2462           | BG1        | 8.03               | -43.46                  | pass    |
| 11B       | H            | 2462           | BG2        | 5.92               | -36.30                  | pass    |
| 11G       | L            | 2412           | BG1        | 3.92               | -42.35                  | pass    |
| 11G       | L            | 2412           | BG2        | 0.04               | -31.96                  | pass    |
| 11G       | H            | 2462           | BG1        | 4.61               | -36.94                  | pass    |
| 11G       | H            | 2462           | BG2        | 0.85               | -32.62                  | pass    |
| 11N20     | L            | 2412           | BG1        | 4.35               | -33.27                  | pass    |
| 11N20     | L            | 2412           | BG2        | -0.41              | -33.58                  | pass    |
| 11N20     | H            | 2462           | BG1        | 4.88               | -36.70                  | pass    |
| 11N20     | H            | 2462           | BG2        | 0.20               | -41.55                  | pass    |
| 11N40     | L            | 2422           | BG1        | -0.49              | -38.52                  | pass    |
| 11N40     | L            | 2422           | BG2        | -3.87              | -38.10                  | pass    |
| 11N40     | H            | 2452           | BG1        | -0.27              | -43.90                  | pass    |
| 11N40     | H            | 2452           | BG2        | -3.26              | -36.62                  | pass    |

## Part II - Test Plots

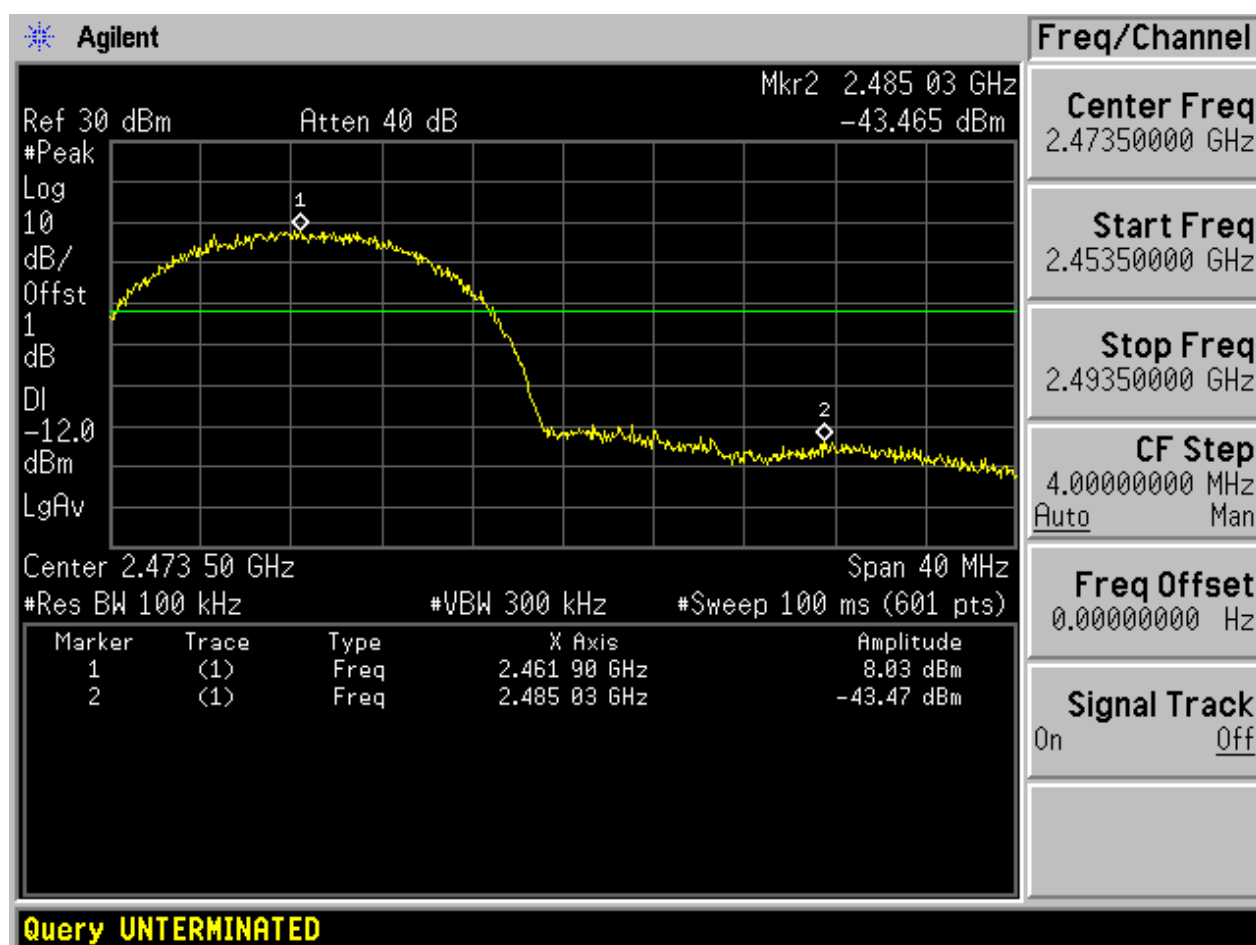
### 2.1 11B\_L@BG1



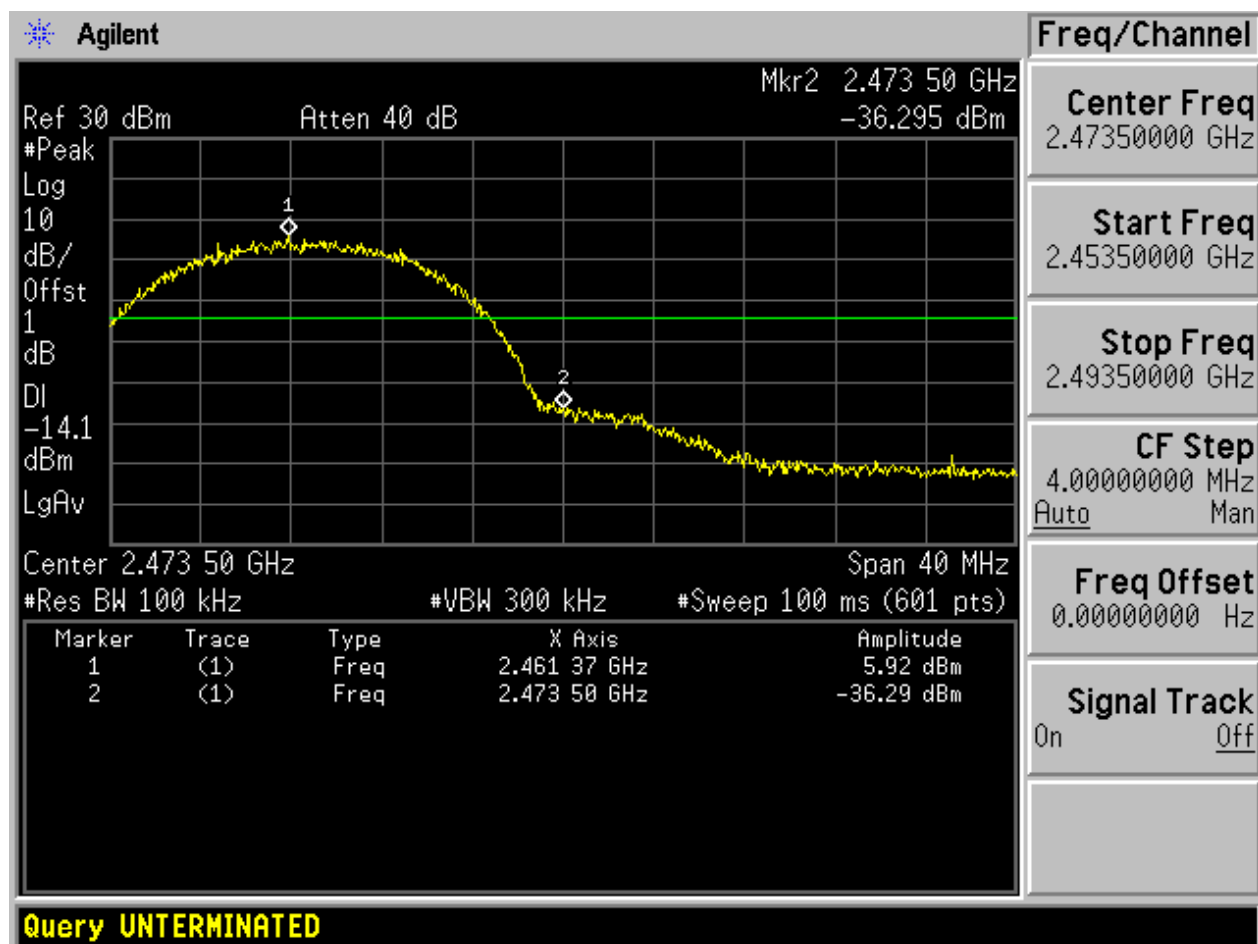
## 2.2 11B\_L@BG2



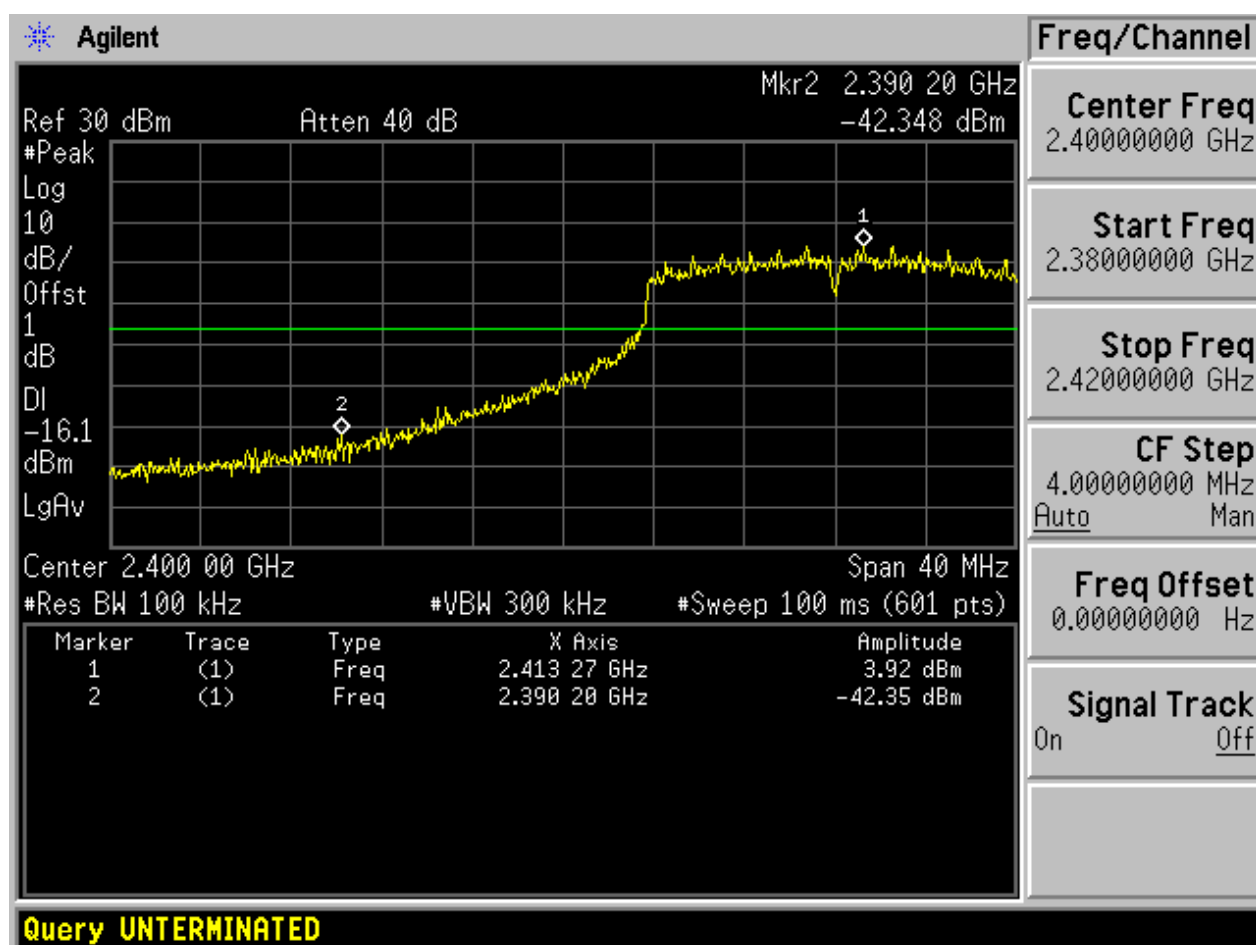
## 2.3 11B\_H@BG1



## 2.4 11B\_H@BG2

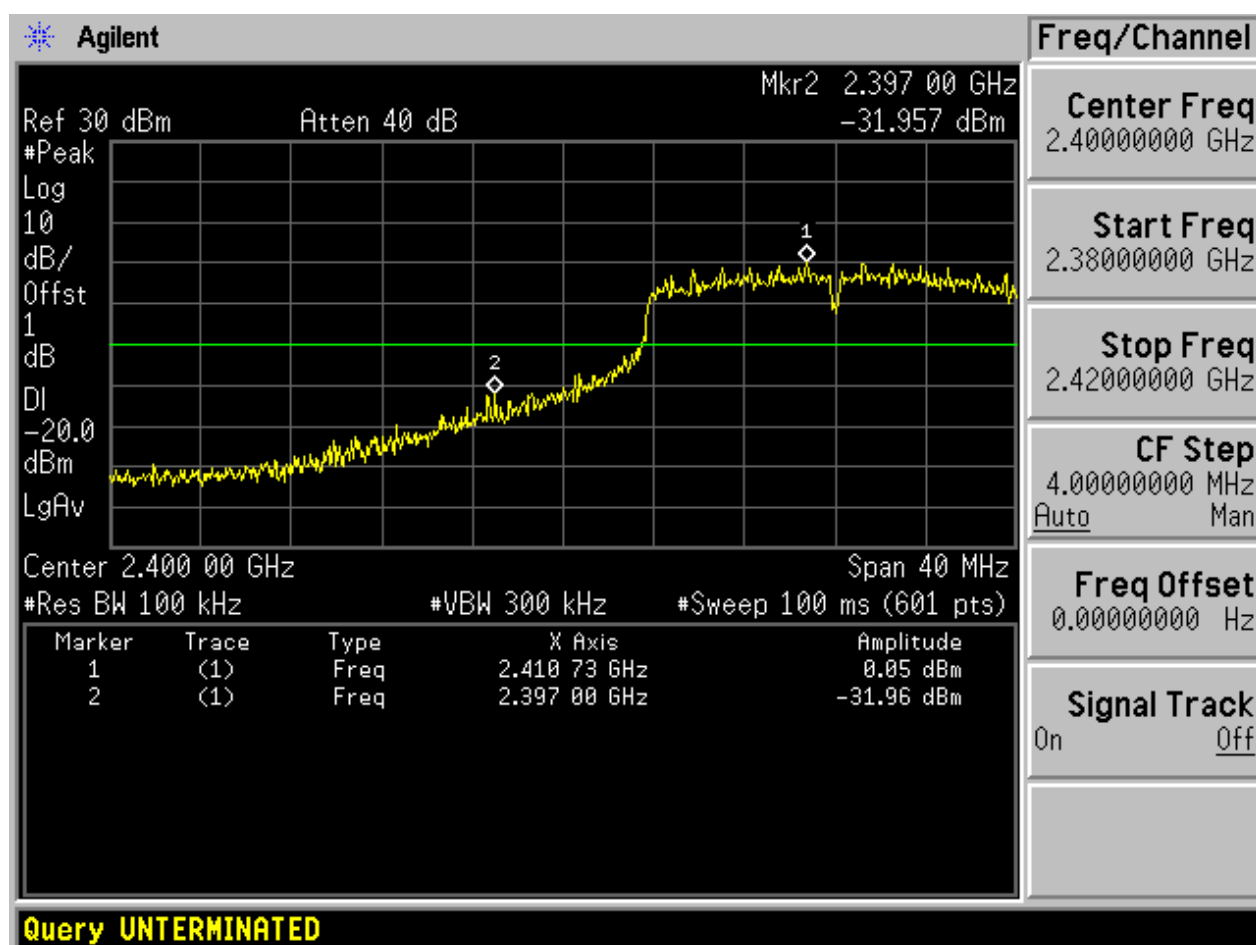


## 2.5 11G\_L@BG1

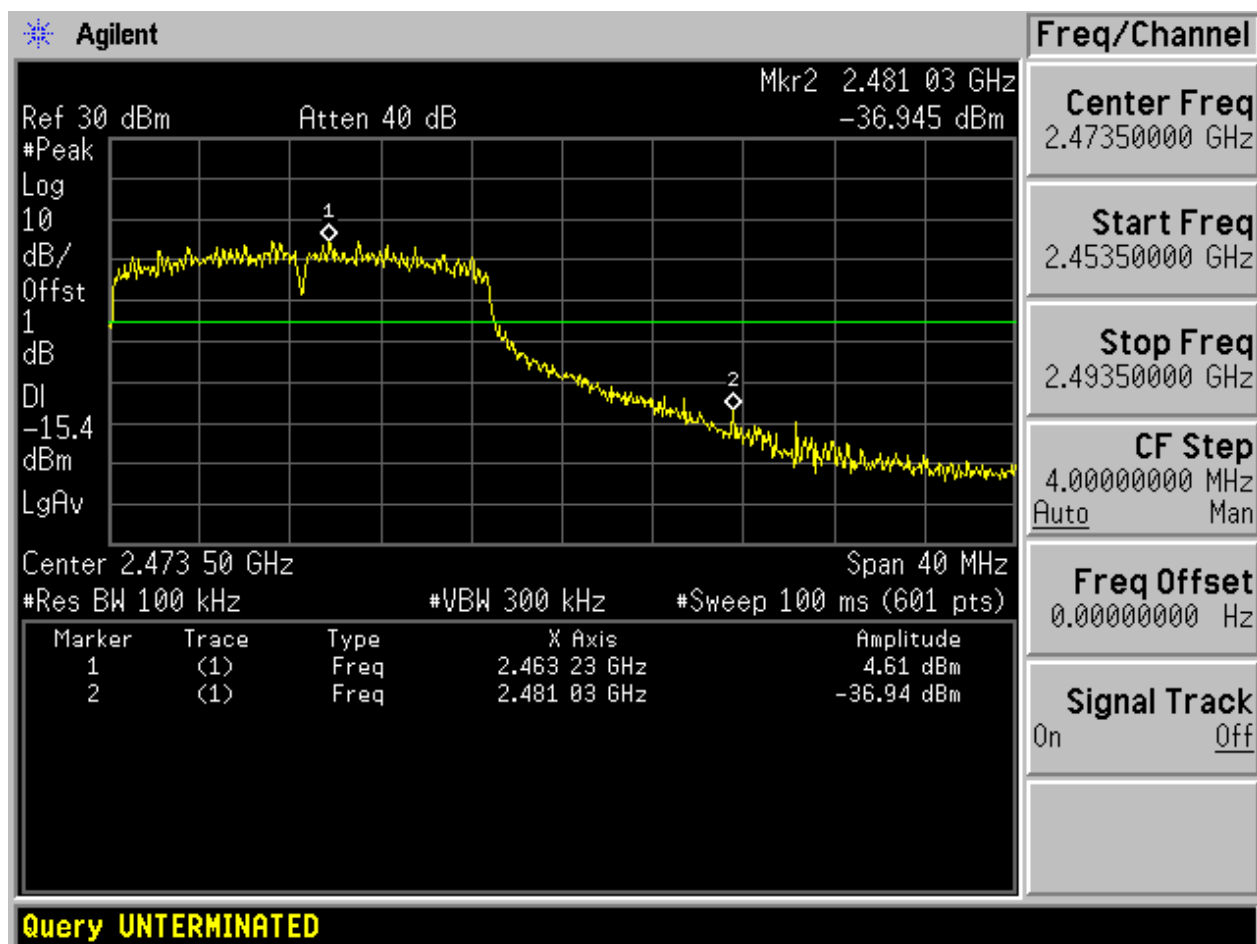




## 2.6 11G\_L@BG2

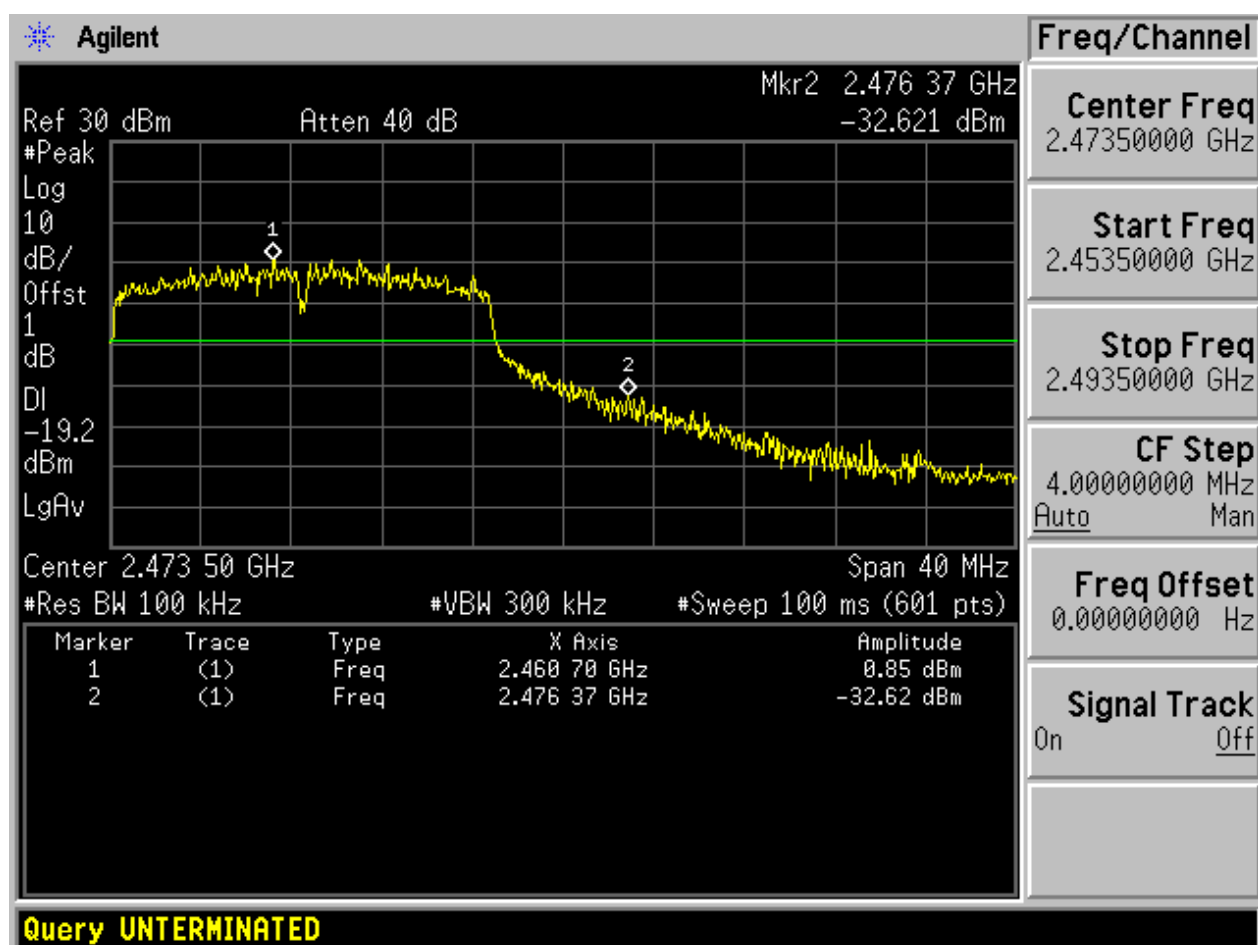


## 2.7 11G\_H@BG1



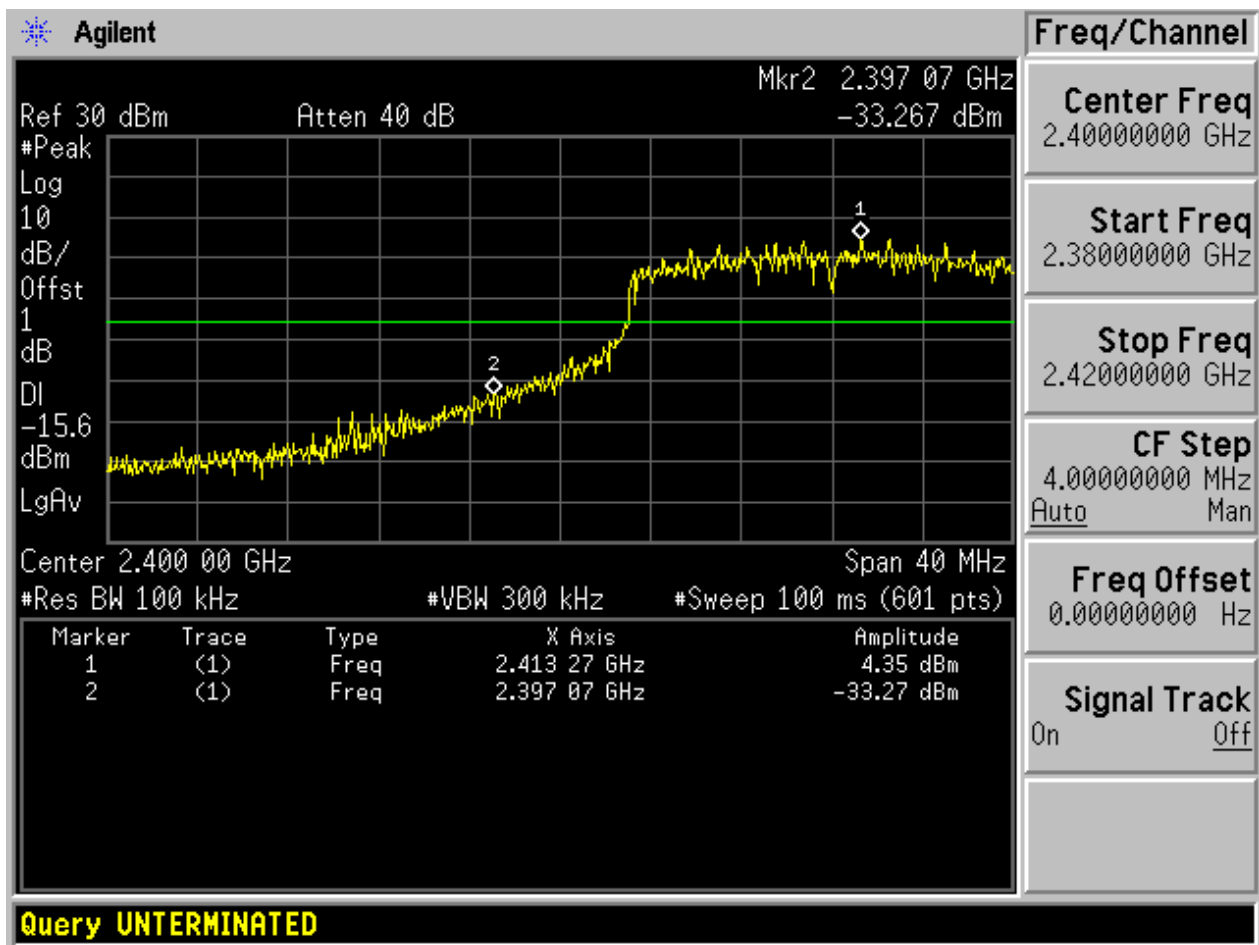


## 2.8 11G\_H@BG2

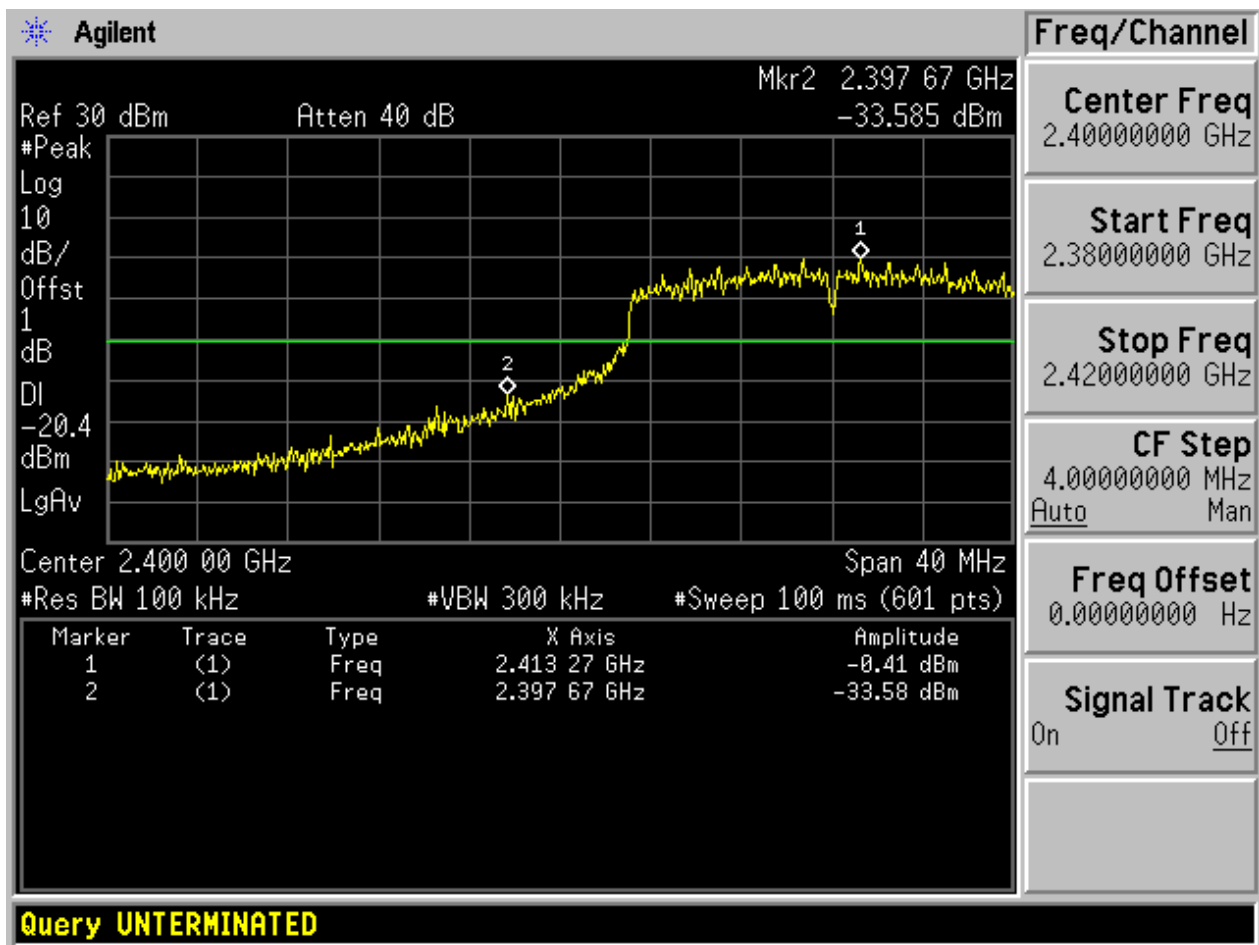




## 2.9 11N20\_L@BG1

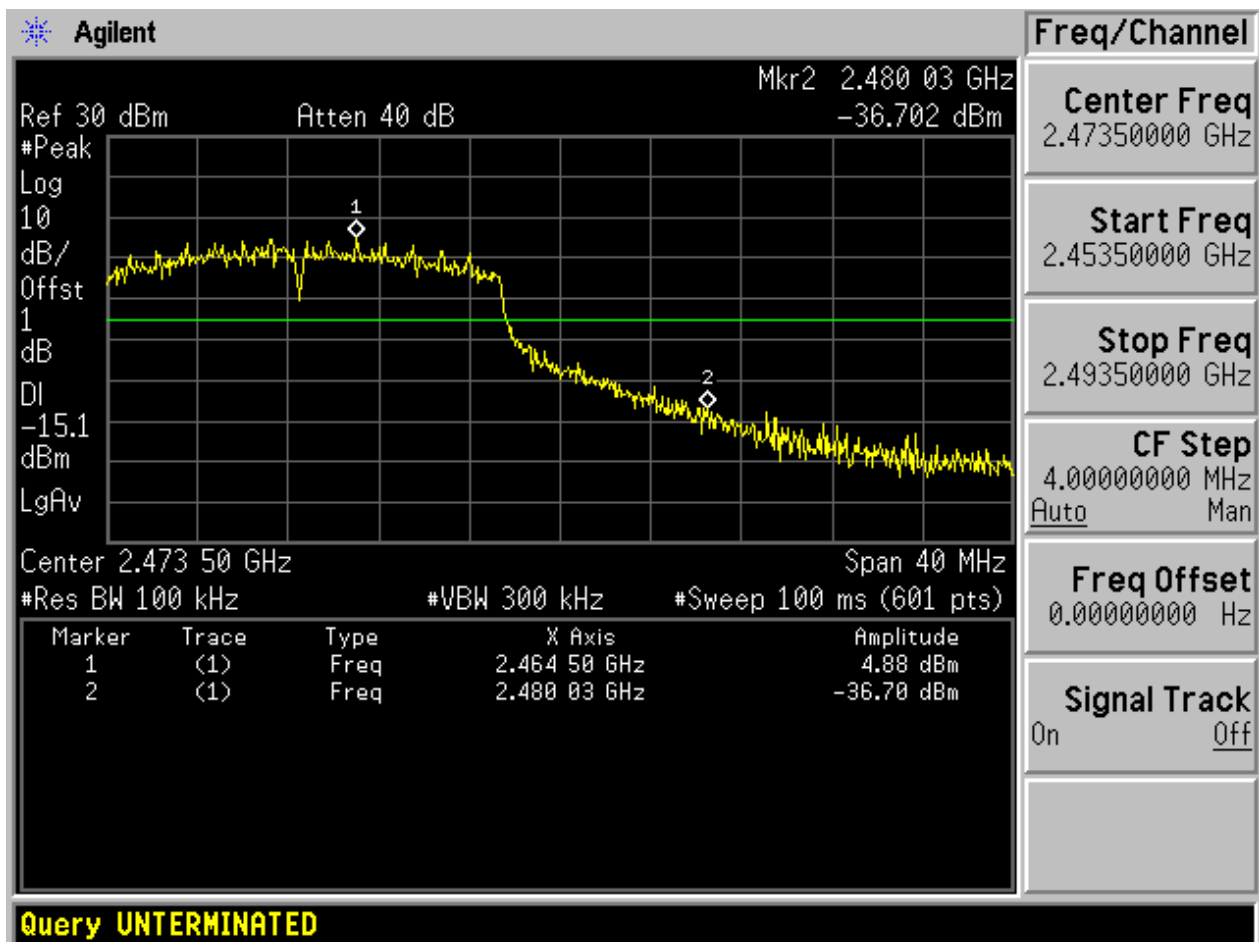


## 2.10 11N20\_L@BG2

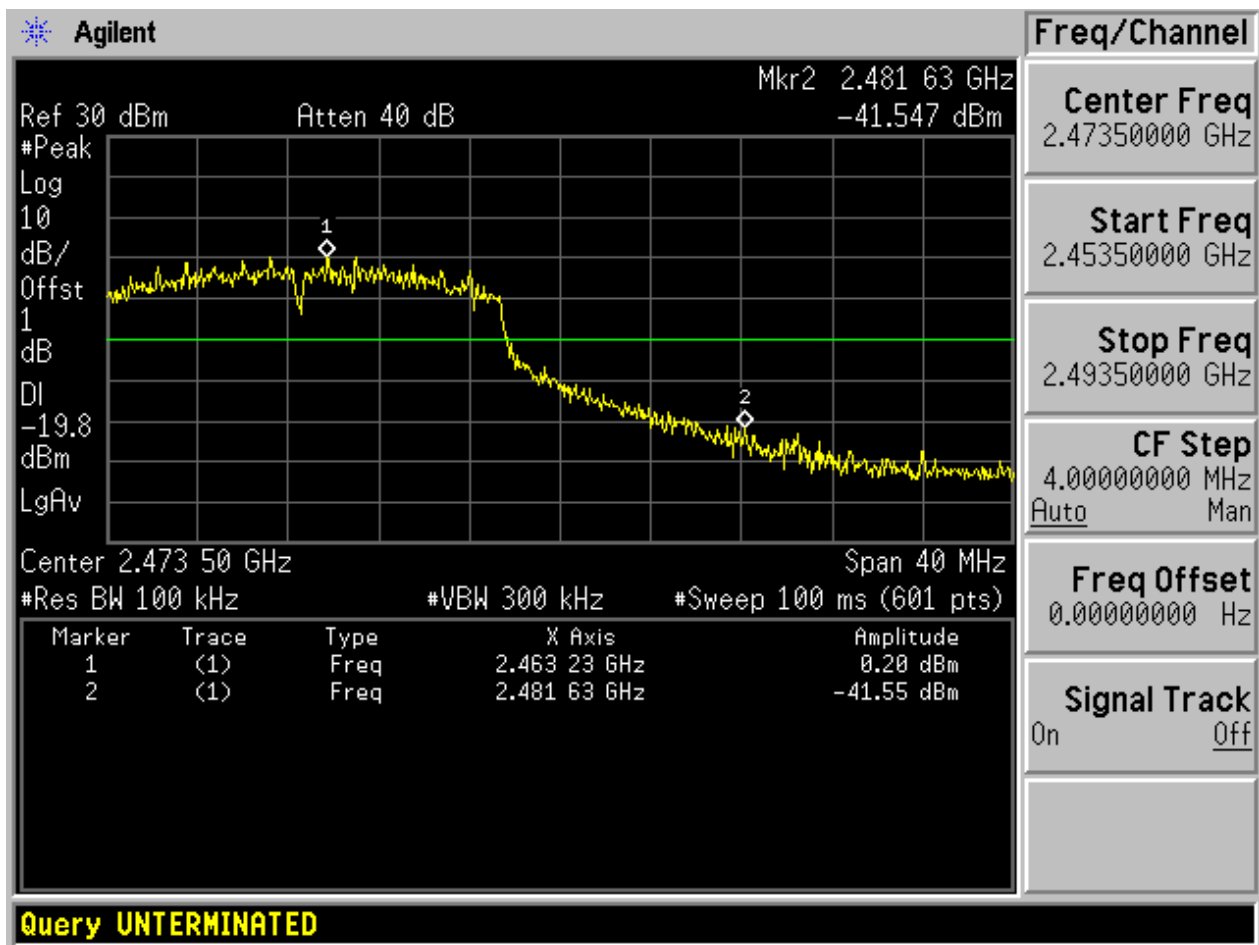




## 2.11 11N20\_H@BG1

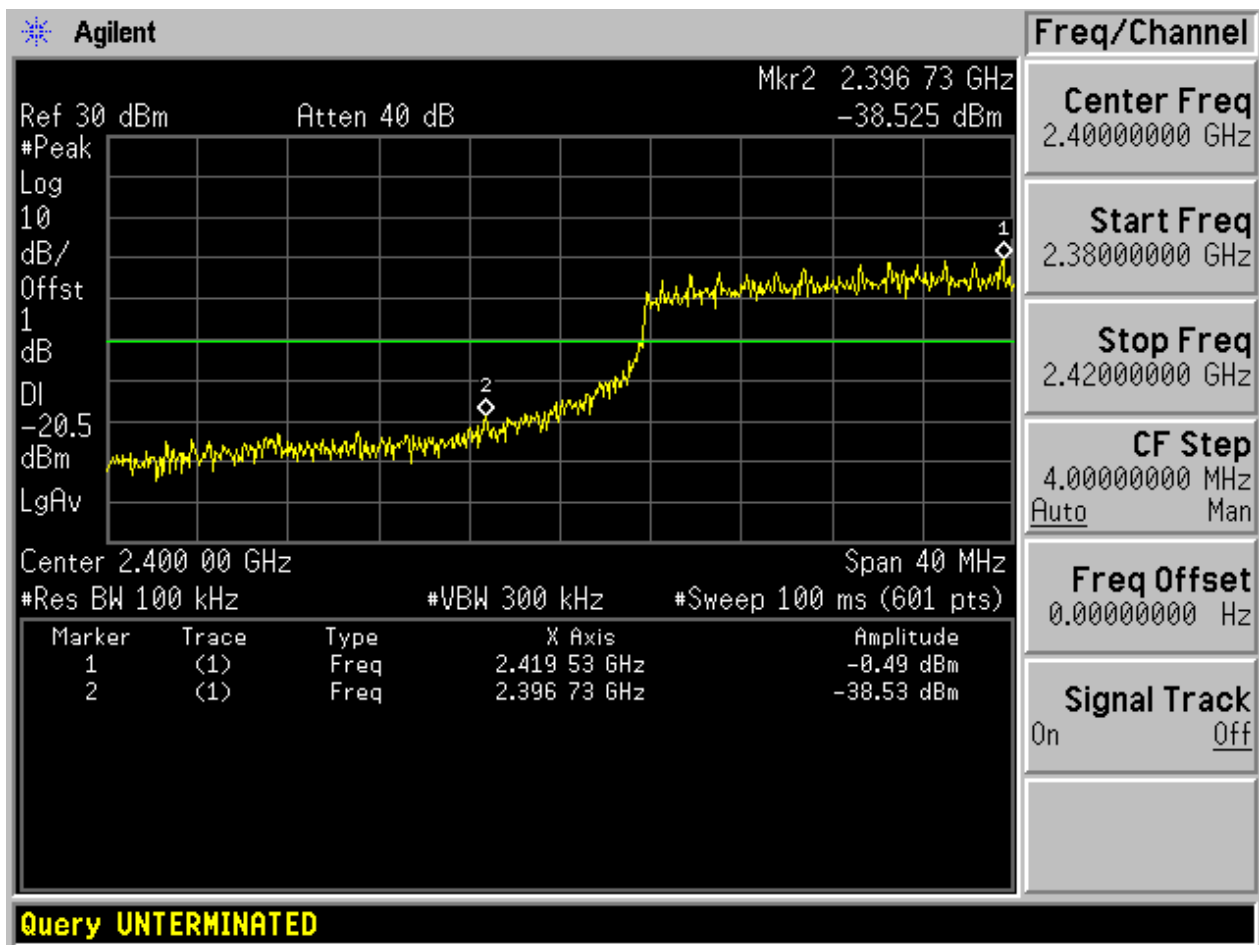


## 2.12 11N20\_H@BG2

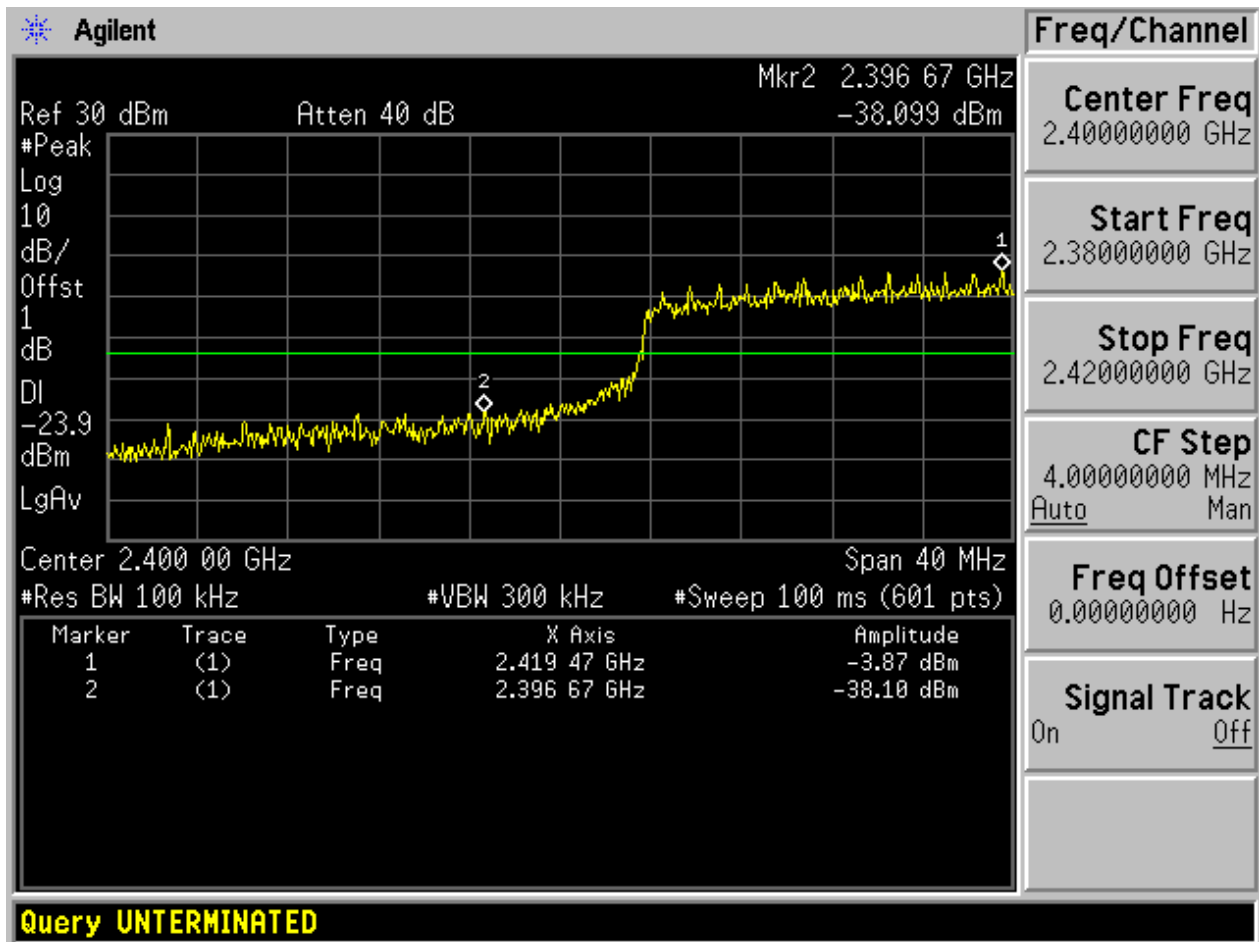




## 2.13 11N40\_L@BG1

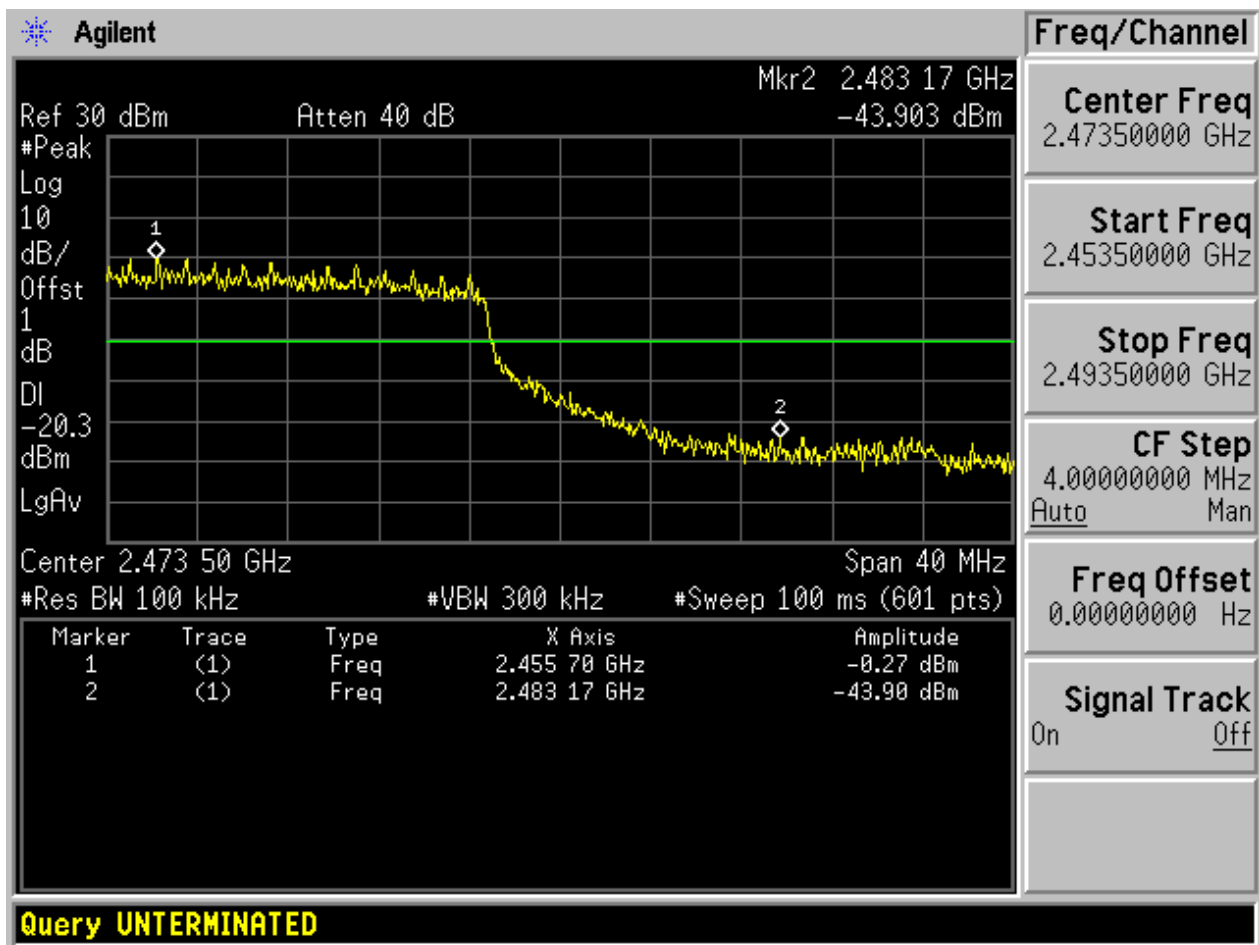


## 2.14 11N40\_L@BG2

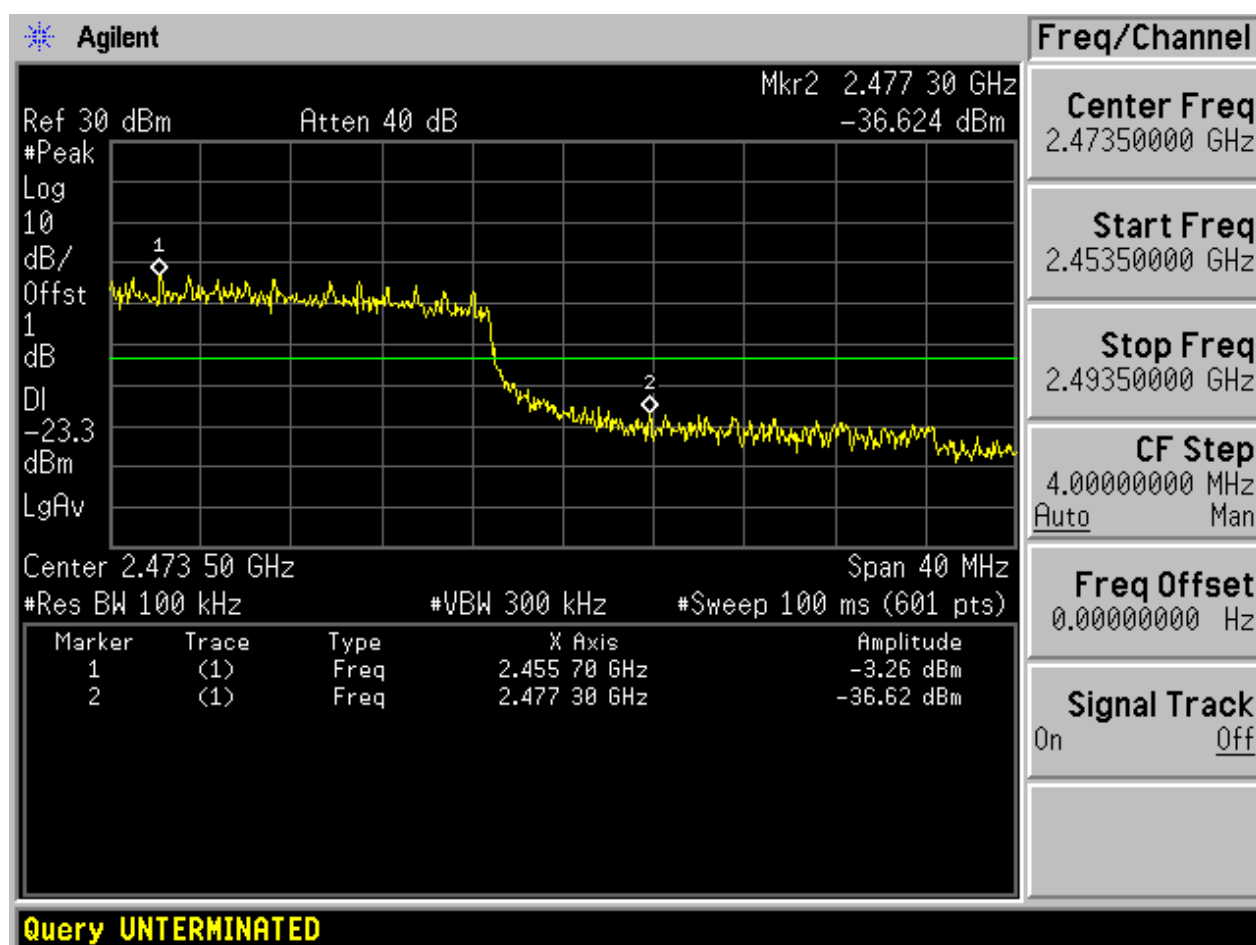




## 2.15 11N40\_H@BG1



## 2.16 11N40\_H@BG2



## Appendix E: Unwanted Emissions into Non-Restricted Frequency Bands

In this Appendix, the "Pref", which is used as the reference level, refers to the peak power level in any 100 kHz bandwidth within the fundamental emission, the "Puw" refers to the maximum emission power in 100 kHz band segments outside of the authorized frequency band.

Considering that the higher ratio of RBW to the span for the frequency ranges below 30 MHz makes the results determination be complicated, a narrower RBW other than 100 kHz is used for these ranges. The measured value should add a RBW correction factor (RBWCF) where  $RBWCF [dB] = 10 \times \lg(100 [kHz]/\text{narrower RBW [kHz]})$ . As to this Appendix, the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain and used as respective results for each chain, due to the relative-limit requirement.

In the result table, the "< Limit" denotes that "The Puw [dBm] is less than Pref[dBm]-20[dBm], see test plots for detailed".

### Part I - Test Results

| Test Mode | Test Channel | Frequency[MHz] | Power Mode | Pref[dBm] | Puw[dBm] | Verdict |
|-----------|--------------|----------------|------------|-----------|----------|---------|
| 11B       | L            | 2412           | Ant 1      | 9.08      | <limit   | pass    |
| 11B       | L            | 2412           | Ant 2      | 6.01      | <limit   | pass    |
| 11B       | M            | 2437           | Ant 1      | 9.64      | <limit   | pass    |
| 11B       | M            | 2437           | Ant 2      | 6.37      | <limit   | pass    |
| 11B       | H            | 2462           | Ant 1      | 9.51      | <limit   | pass    |
| 11B       | H            | 2462           | Ant 2      | 6.15      | <limit   | pass    |
| 11G       | L            | 2412           | Ant 1      | 4.67      | <limit   | pass    |
| 11G       | L            | 2412           | Ant 2      | 0.81      | <limit   | pass    |
| 11G       | M            | 2437           | Ant 1      | 5.35      | <limit   | pass    |
| 11G       | M            | 2437           | Ant 2      | 1.26      | <limit   | pass    |
| 11G       | H            | 2462           | Ant 1      | 5.36      | <limit   | pass    |
| 11G       | H            | 2462           | Ant 2      | 1.63      | <limit   | pass    |
| 11N20     | L            | 2412           | Ant 1      | 5.24      | <limit   | pass    |
| 11N20     | L            | 2412           | Ant 2      | 0.17      | <limit   | pass    |

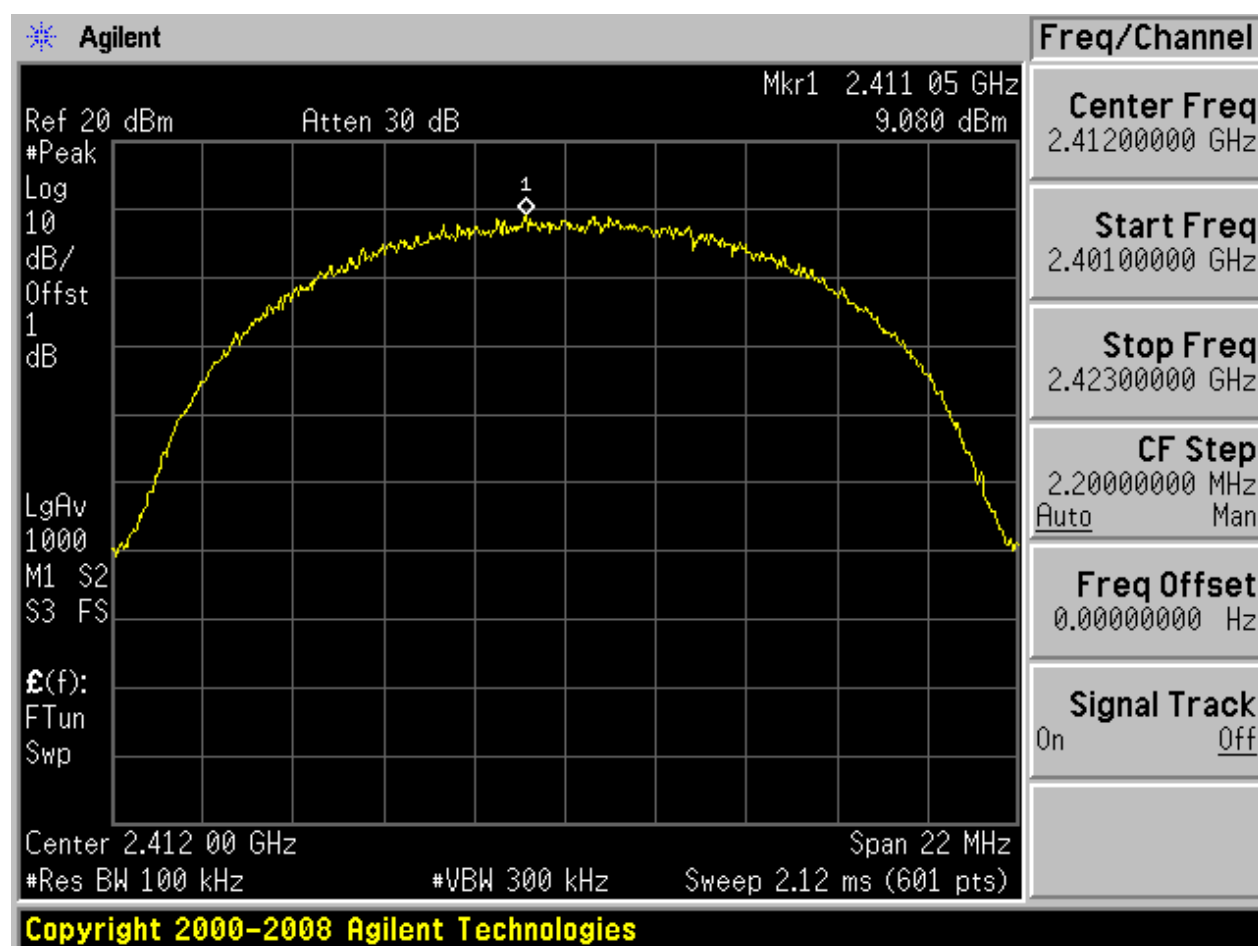


|       |   |      |       |       |        |      |
|-------|---|------|-------|-------|--------|------|
| 11N20 | M | 2437 | Ant 1 | 5.86  | <limit | pass |
| 11N20 | M | 2437 | Ant 2 | 0.79  | <limit | pass |
| 11N20 | H | 2462 | Ant 1 | 5.79  | <limit | pass |
| 11N20 | H | 2462 | Ant 2 | 0.90  | <limit | pass |
| 11N40 | L | 2422 | Ant 1 | 0.00  | <limit | pass |
| 11N40 | L | 2422 | Ant 2 | -3.29 | <limit | pass |
| 11N40 | M | 2437 | Ant 1 | 0.23  | <limit | pass |
| 11N40 | M | 2437 | Ant 2 | -2.92 | <limit | pass |
| 11N40 | H | 2452 | Ant 1 | 0.29  | <limit | pass |
| 11N40 | H | 2452 | Ant 2 | -2.85 | <limit | pass |

## Part II - Test Plots

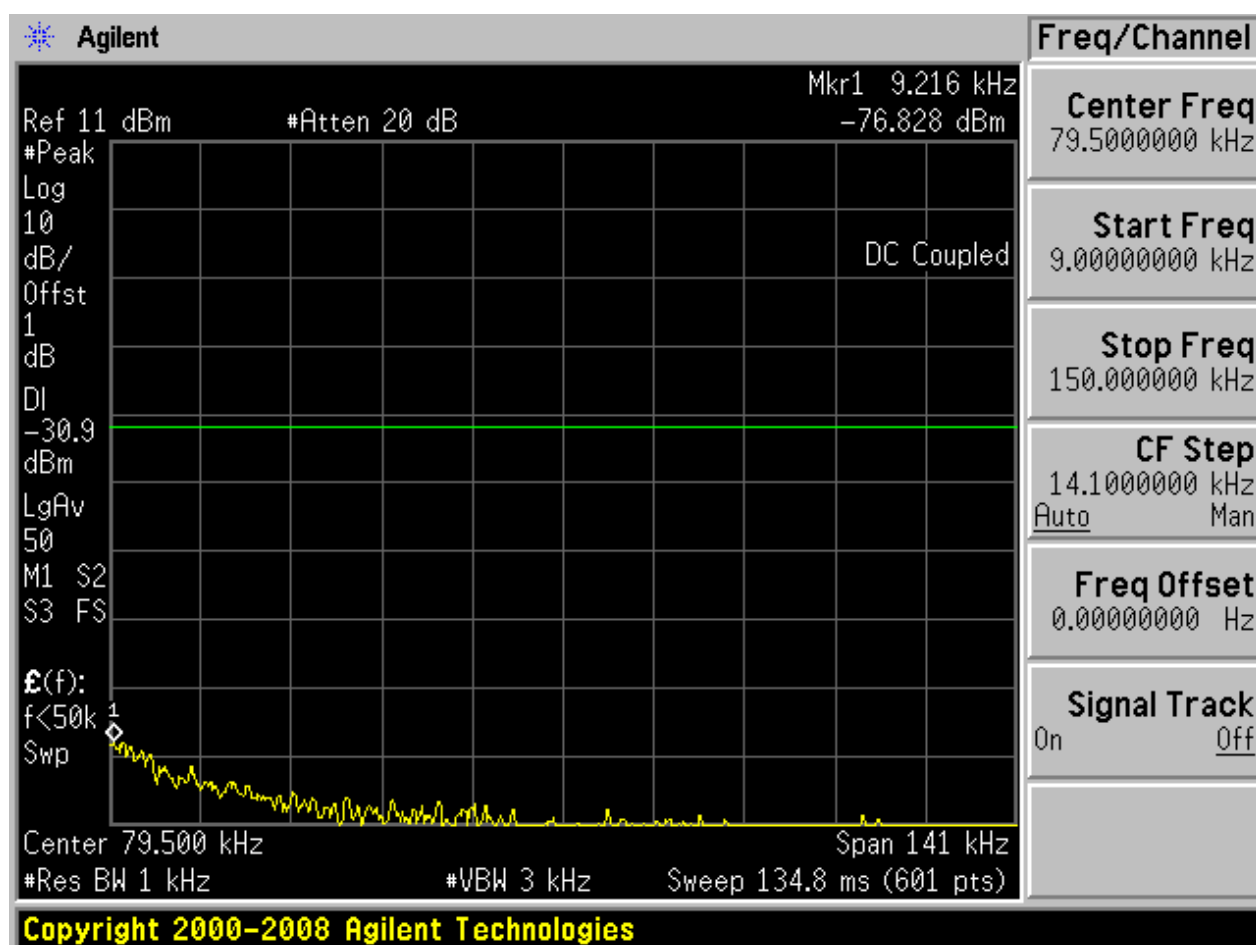
### 2.1 11B\_L@BG1

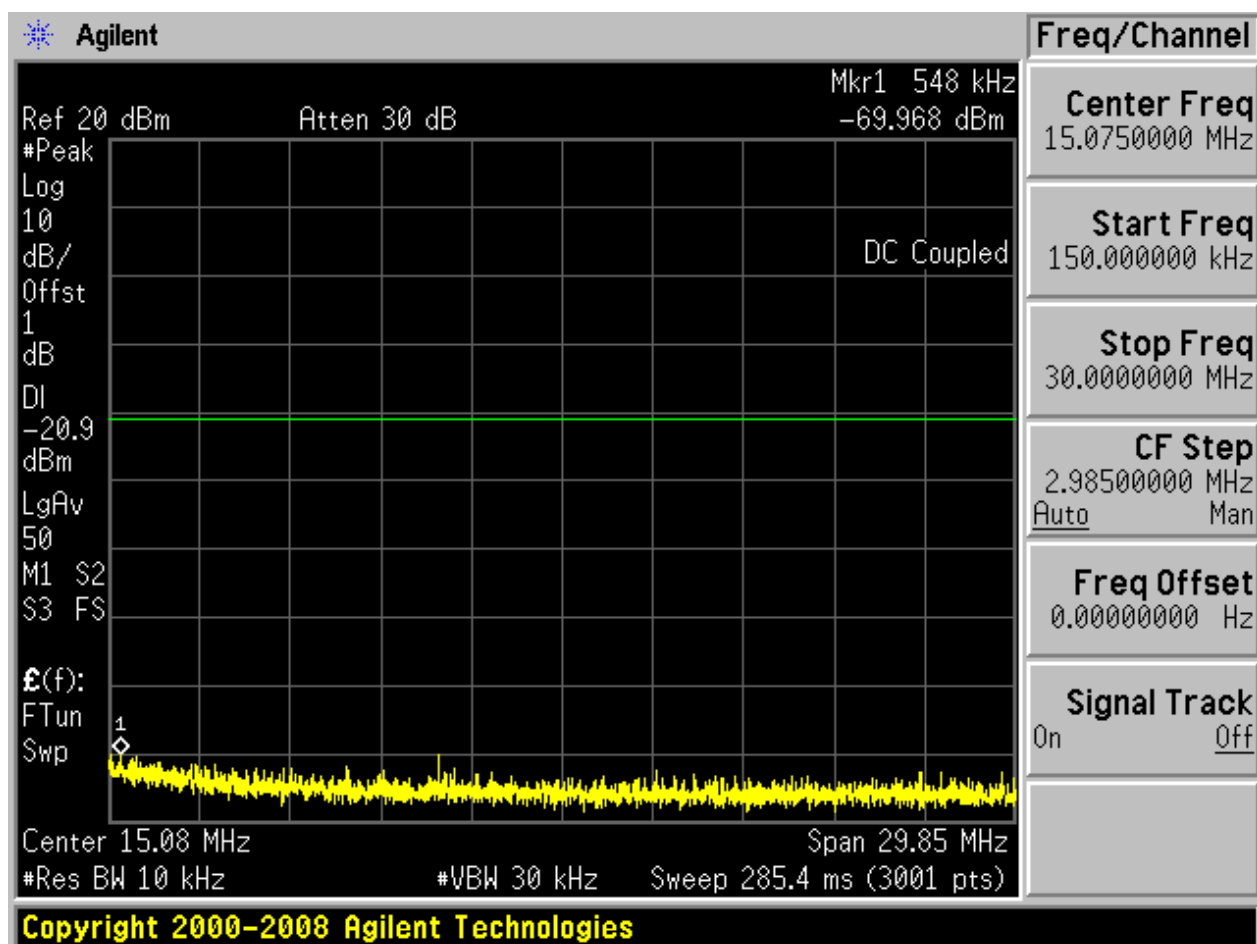
Pref:

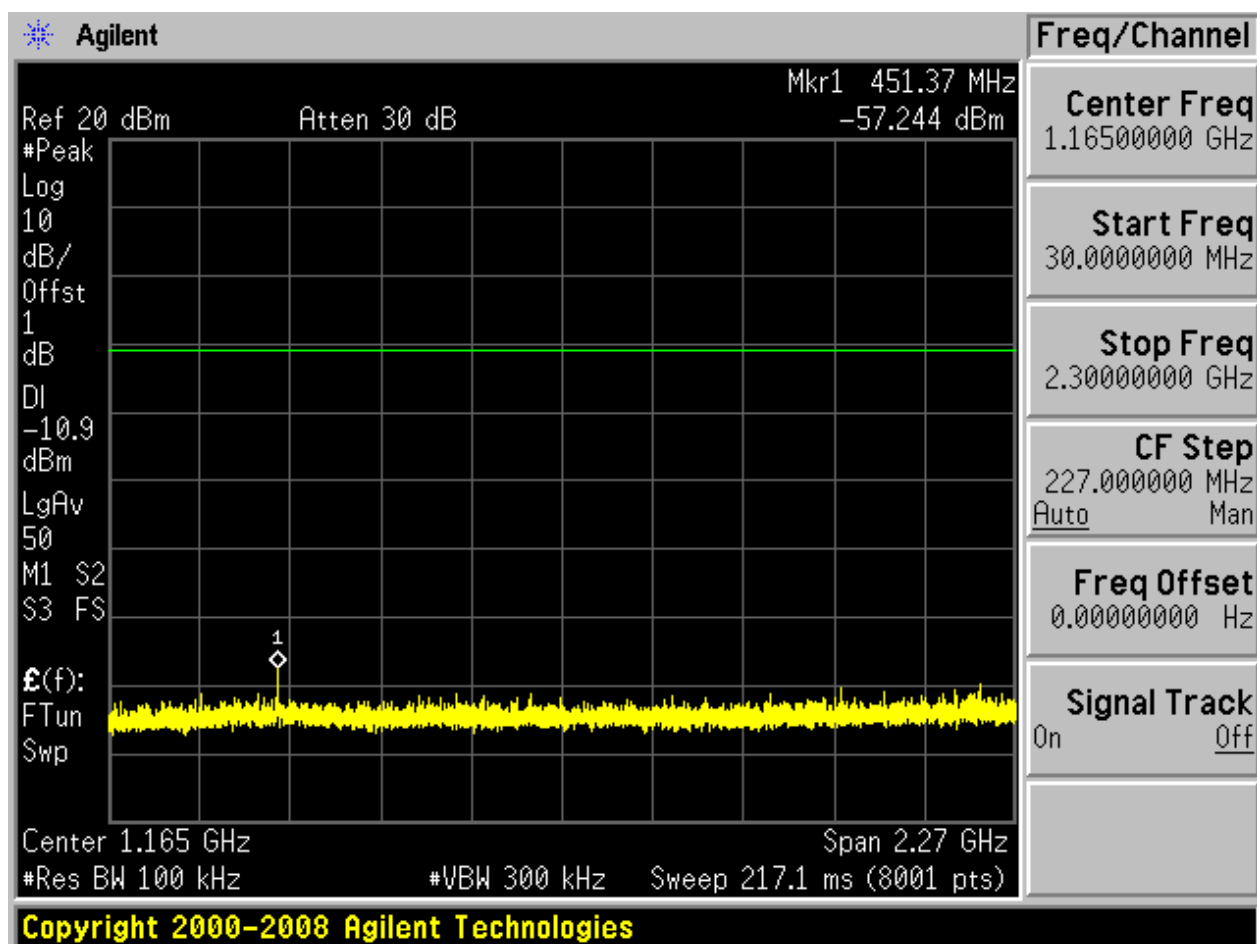


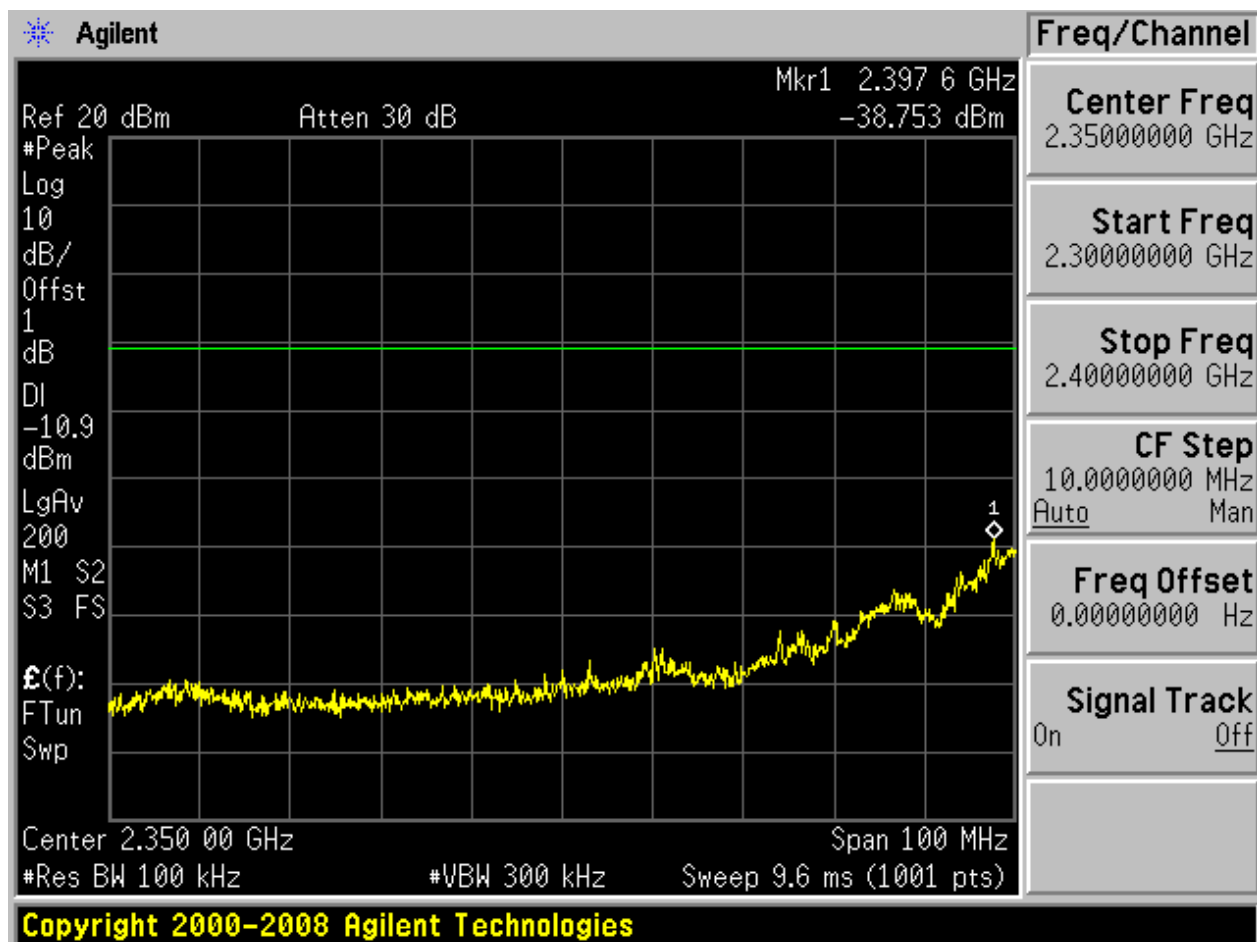


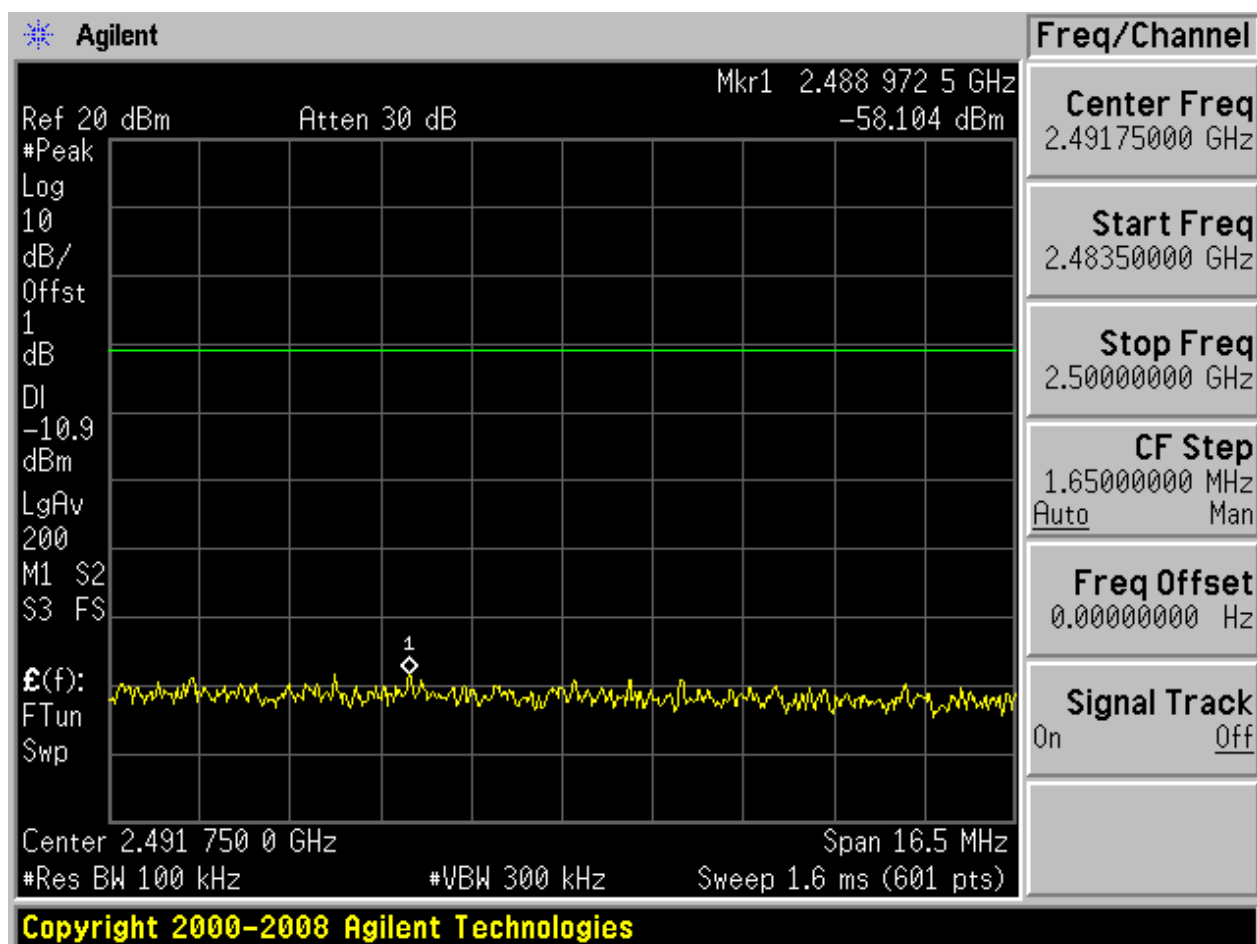
Puw:

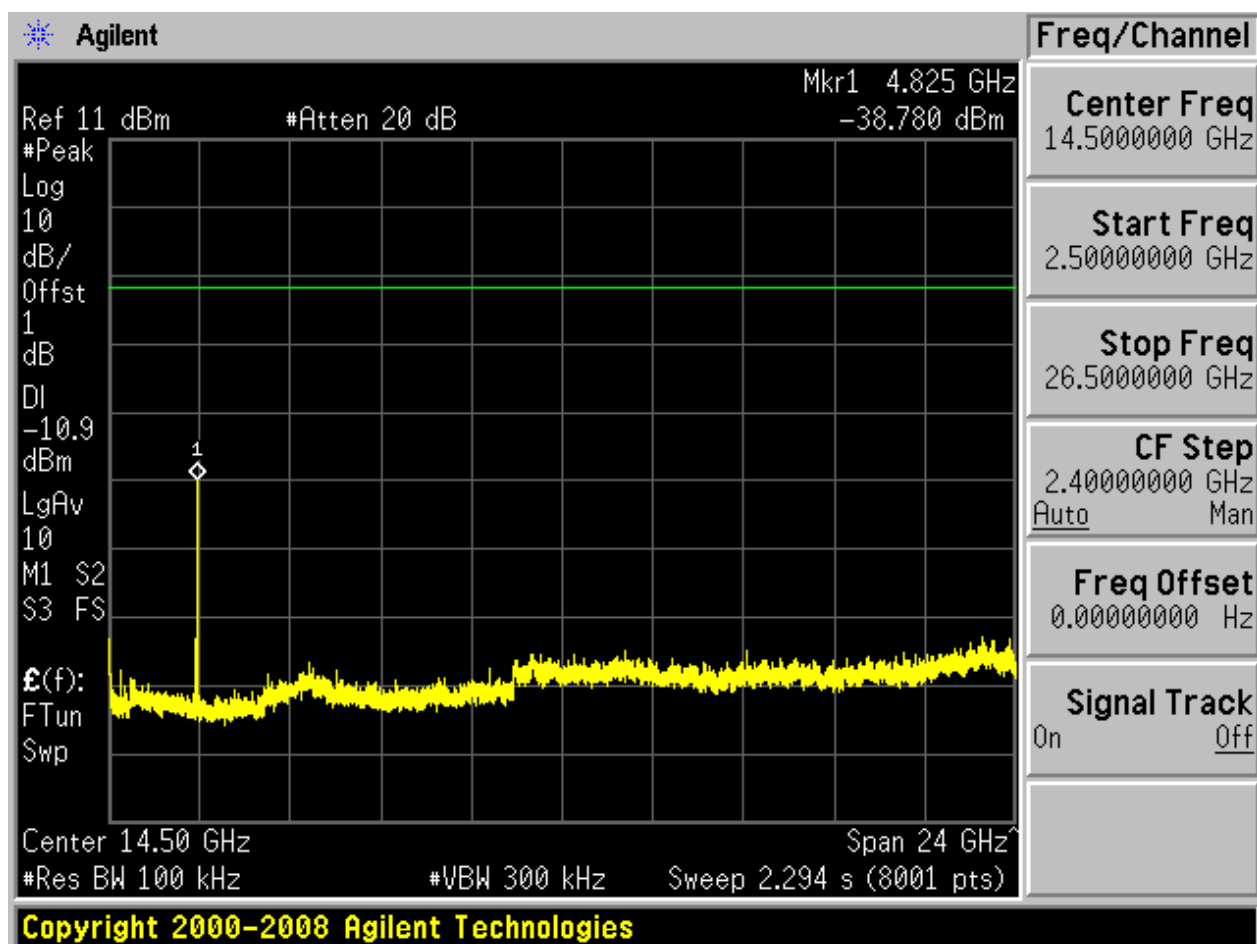








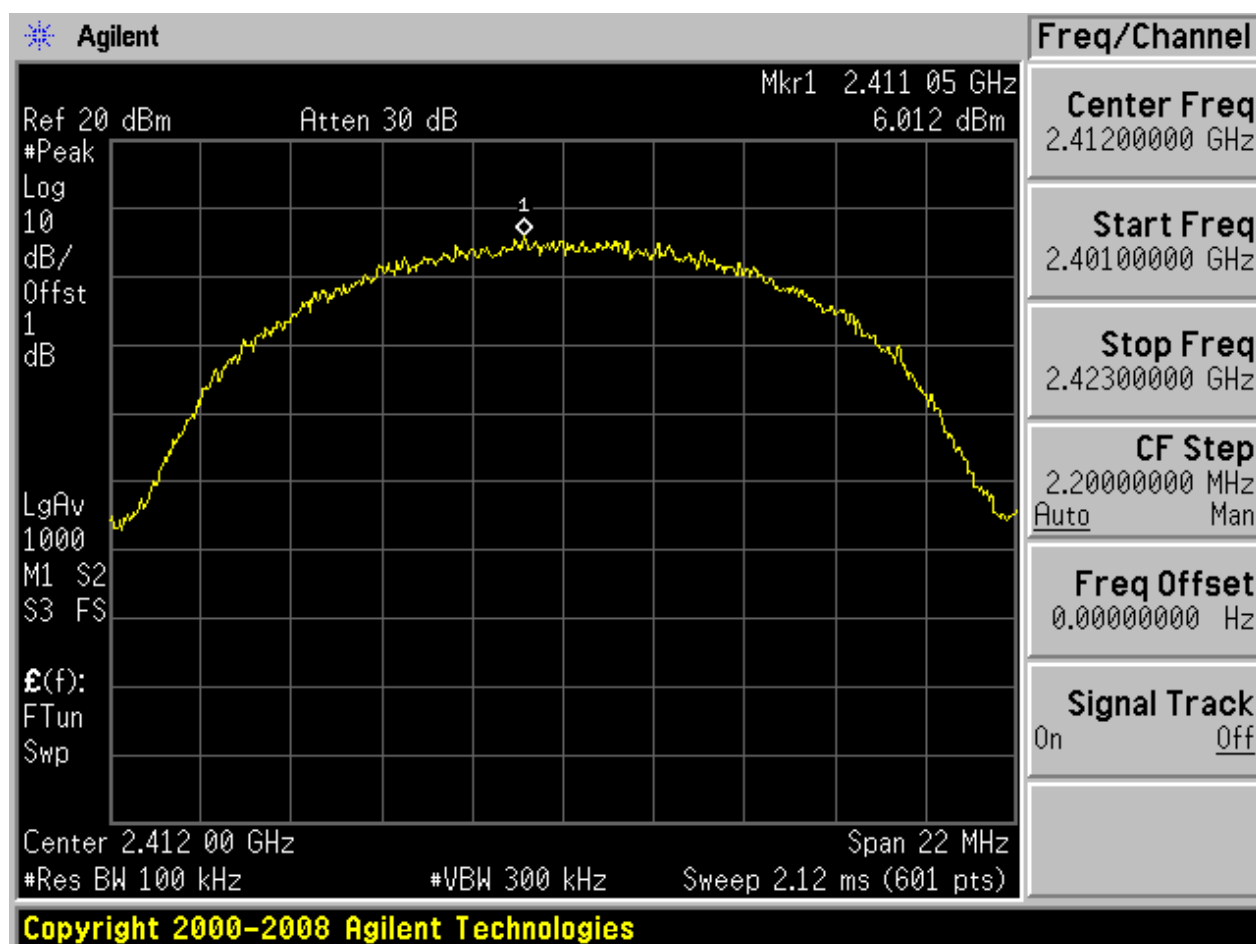






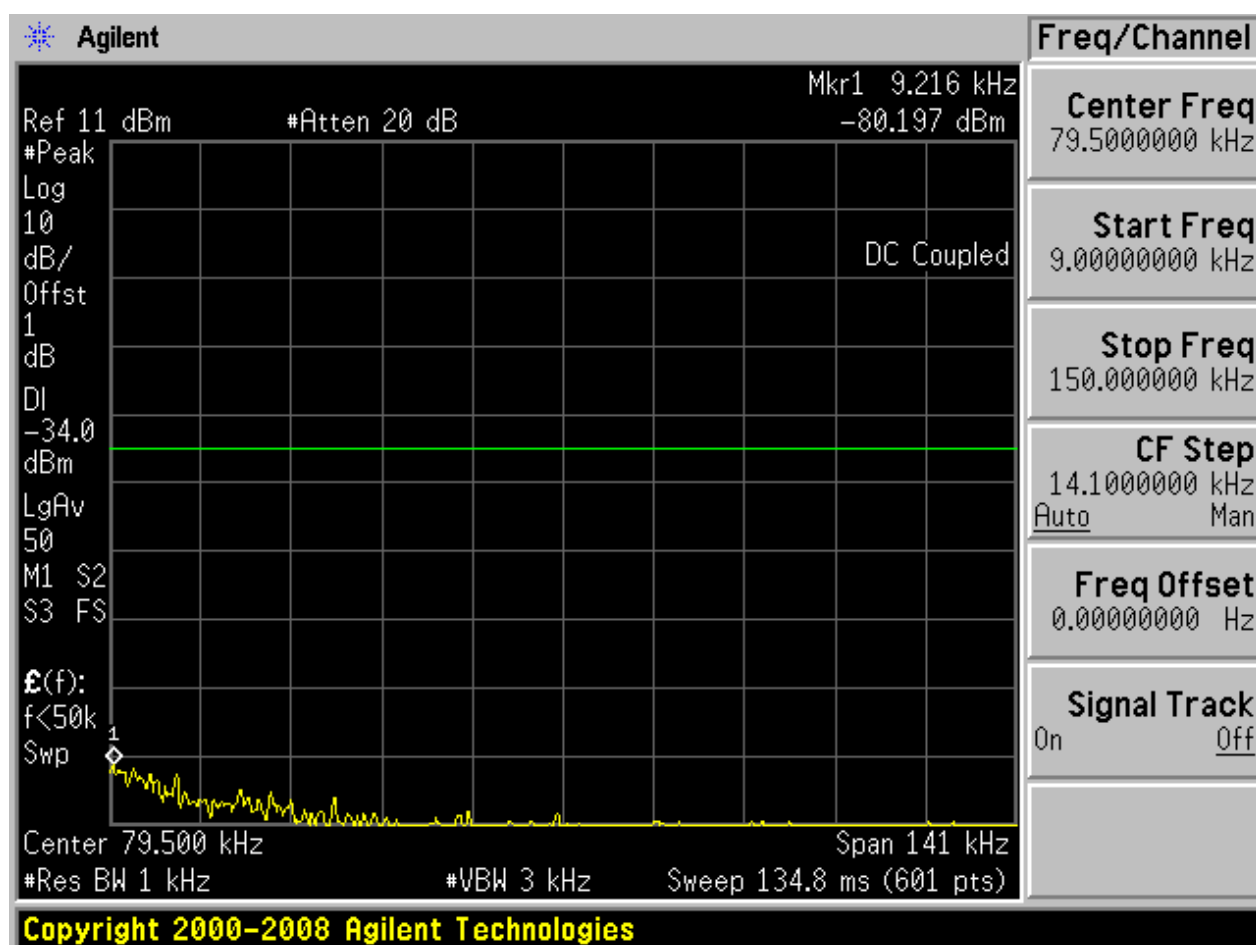
## 2.2 11B\_L@BG2

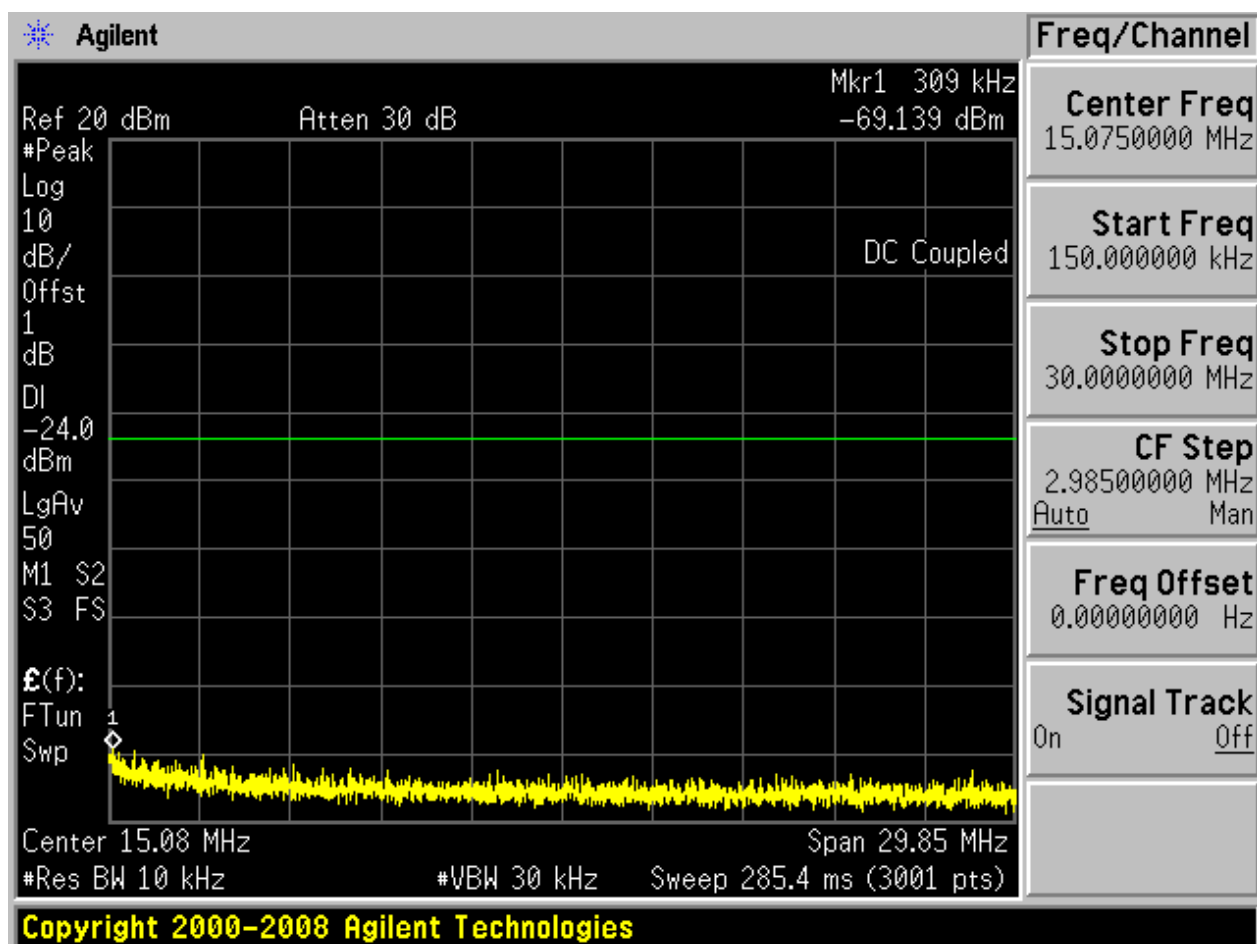
Pref:

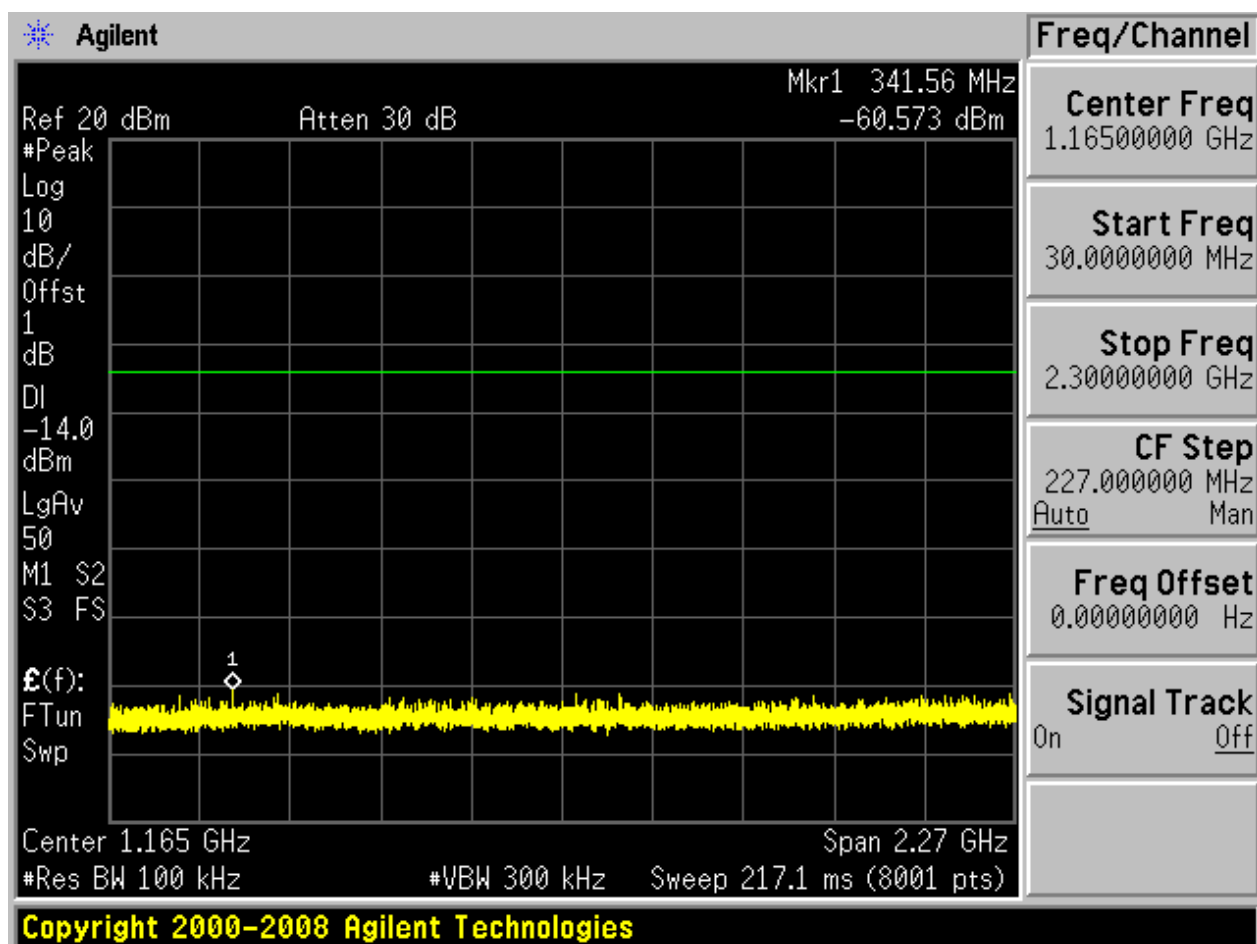


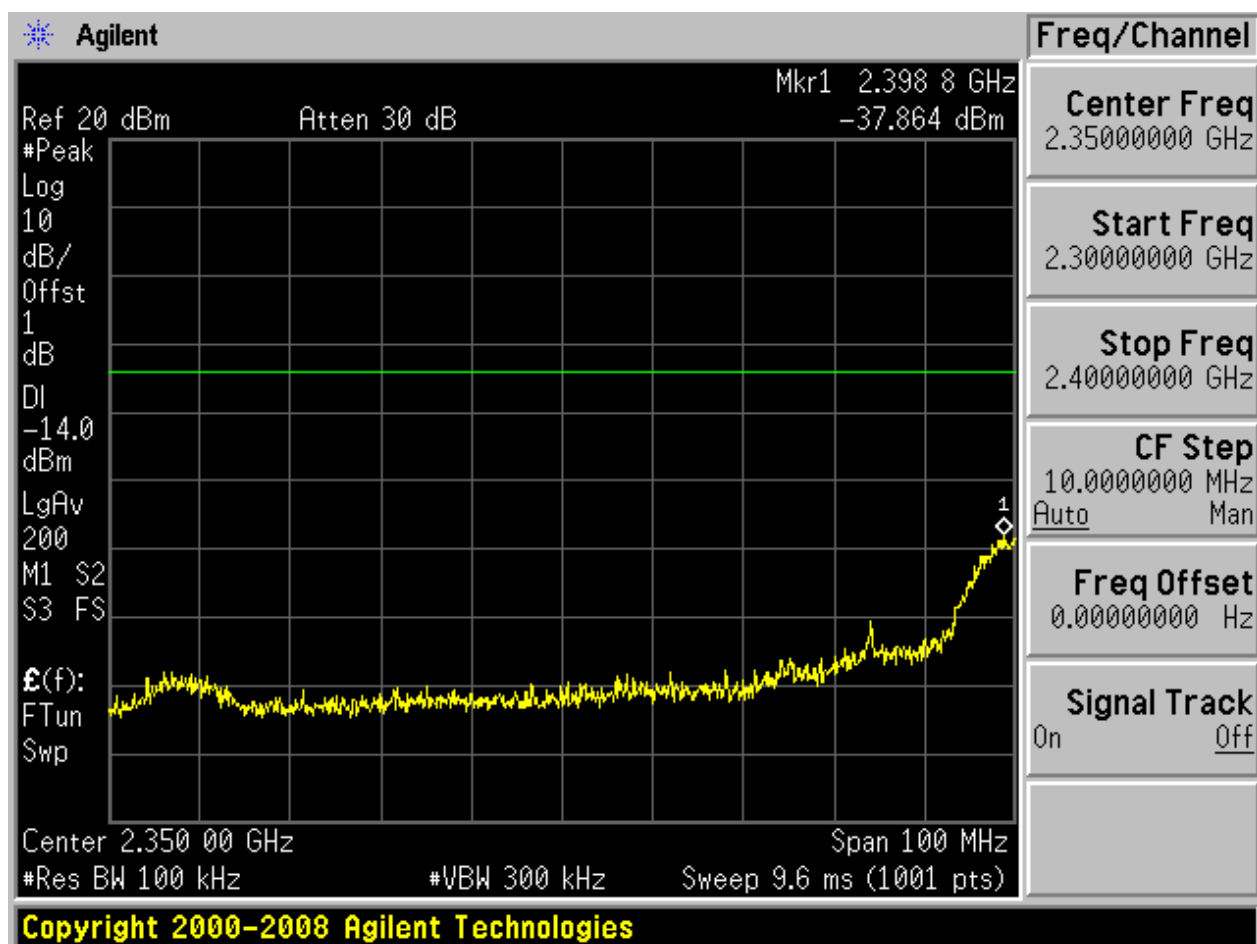


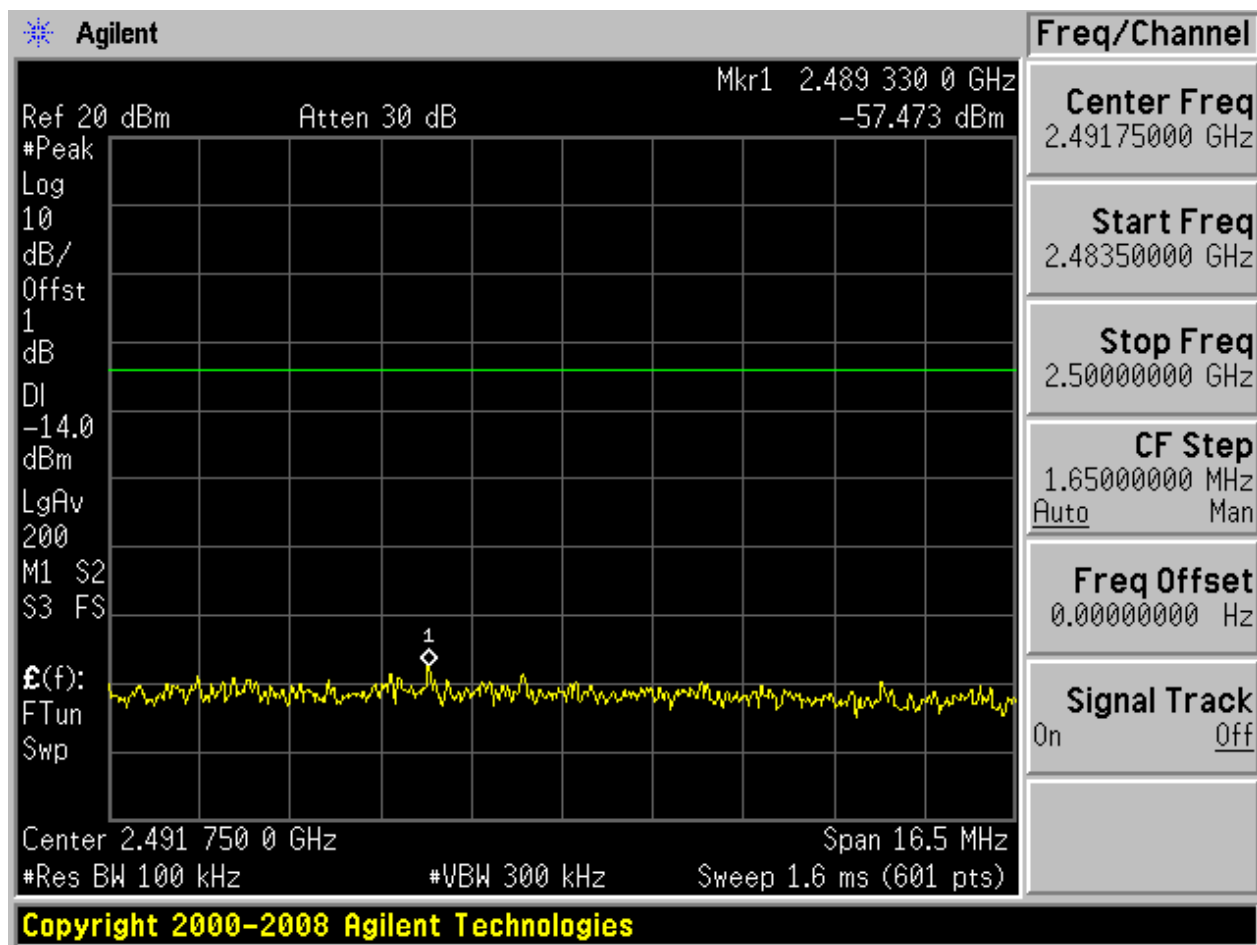
Puw:

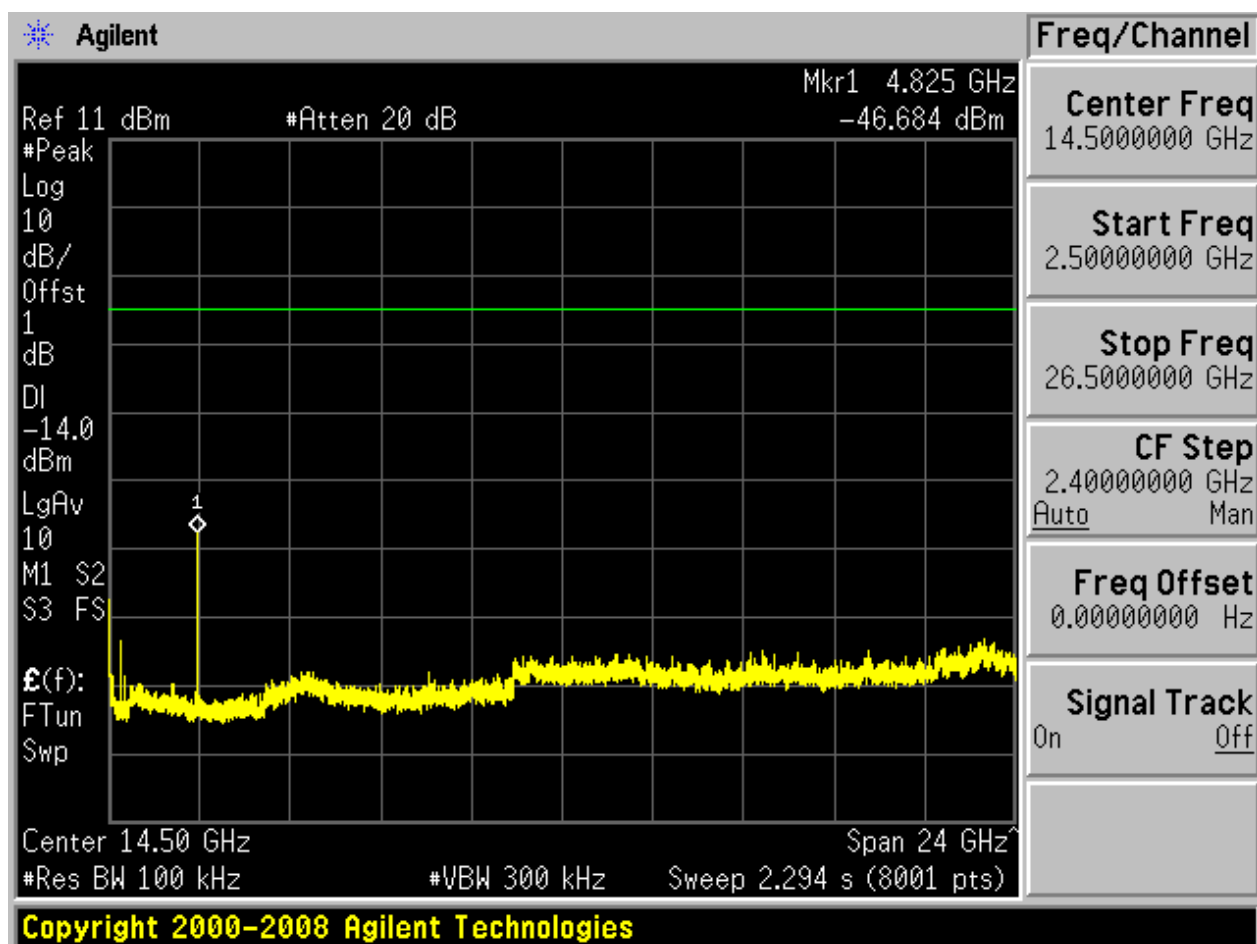








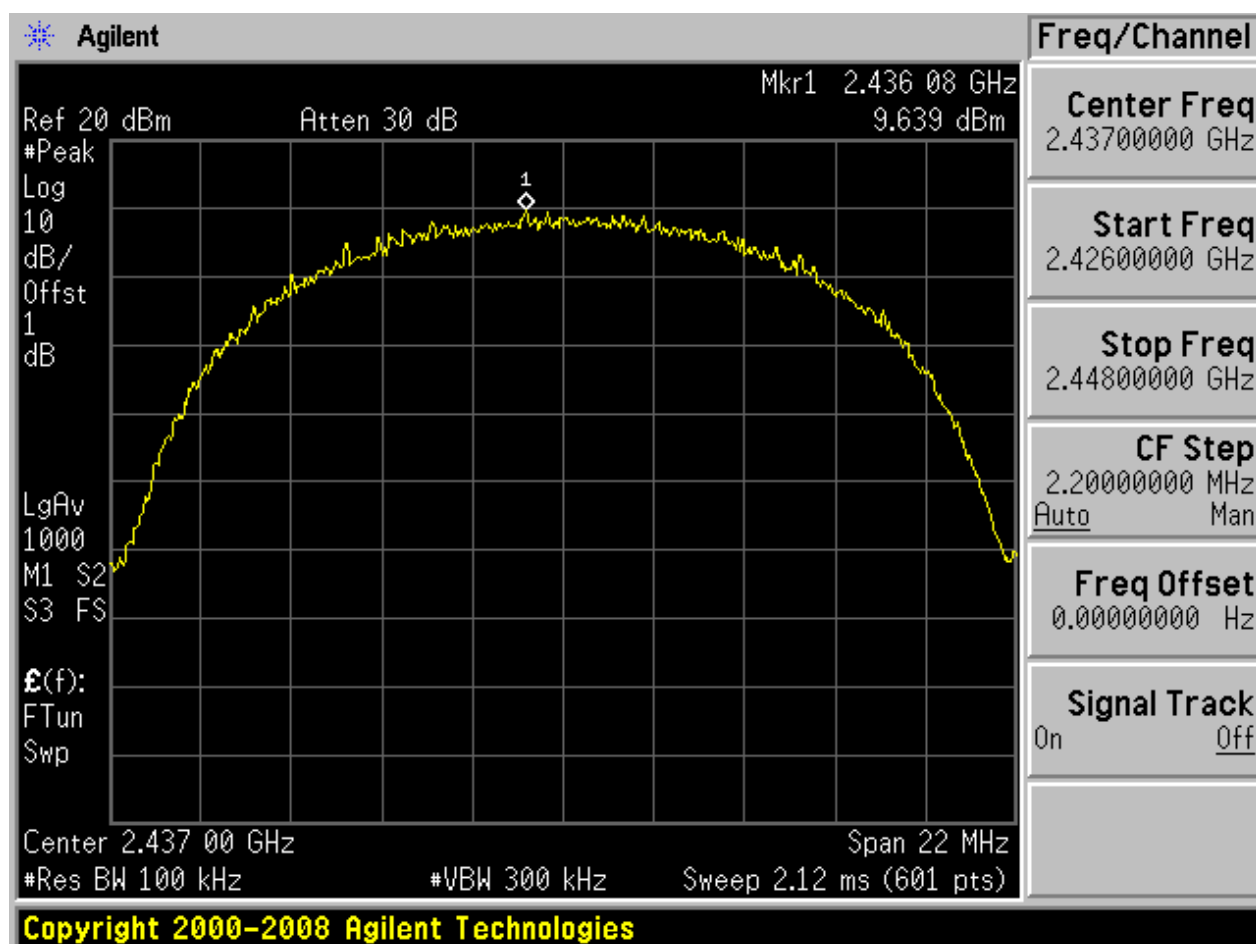






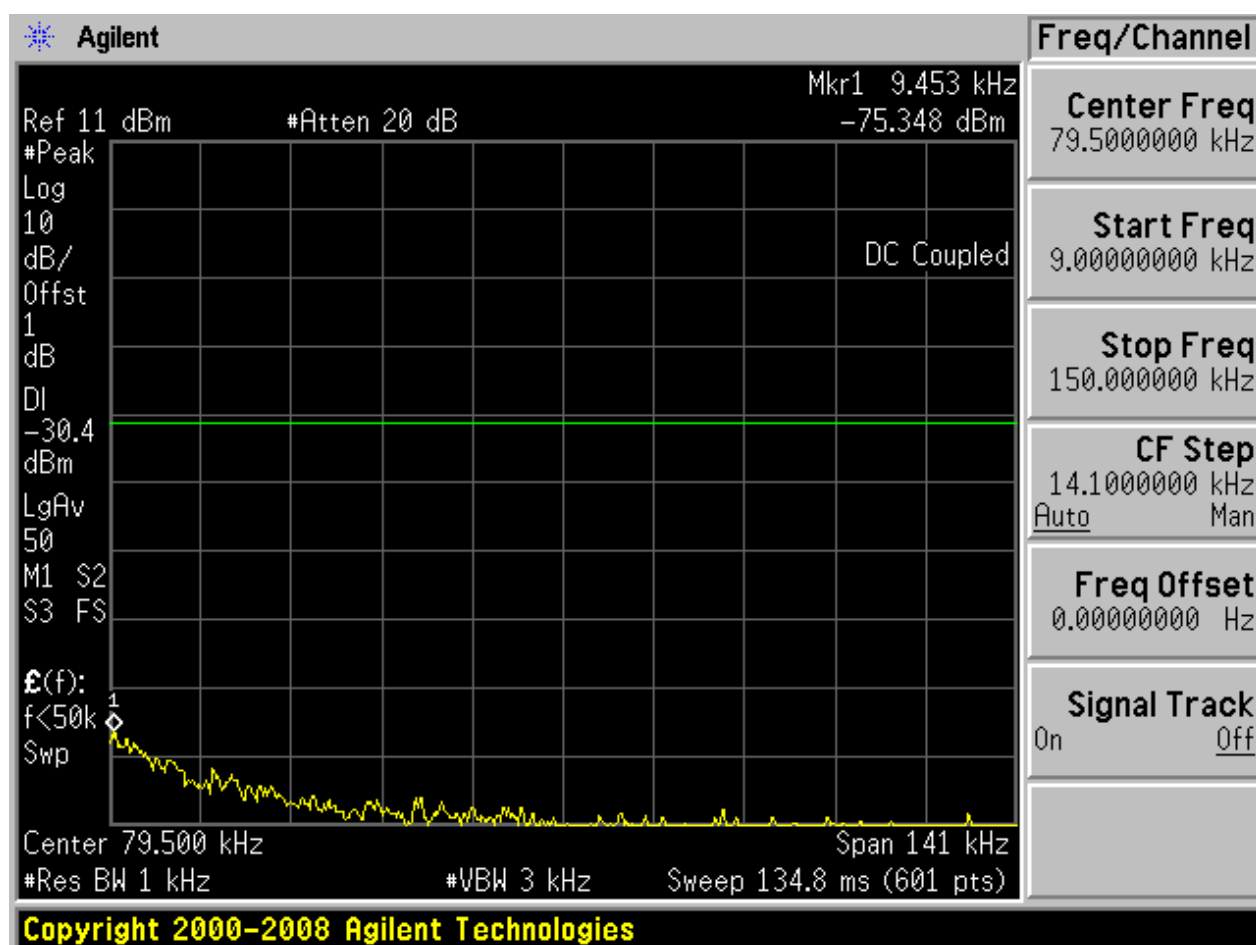
## 2.3 11B\_M@BG1

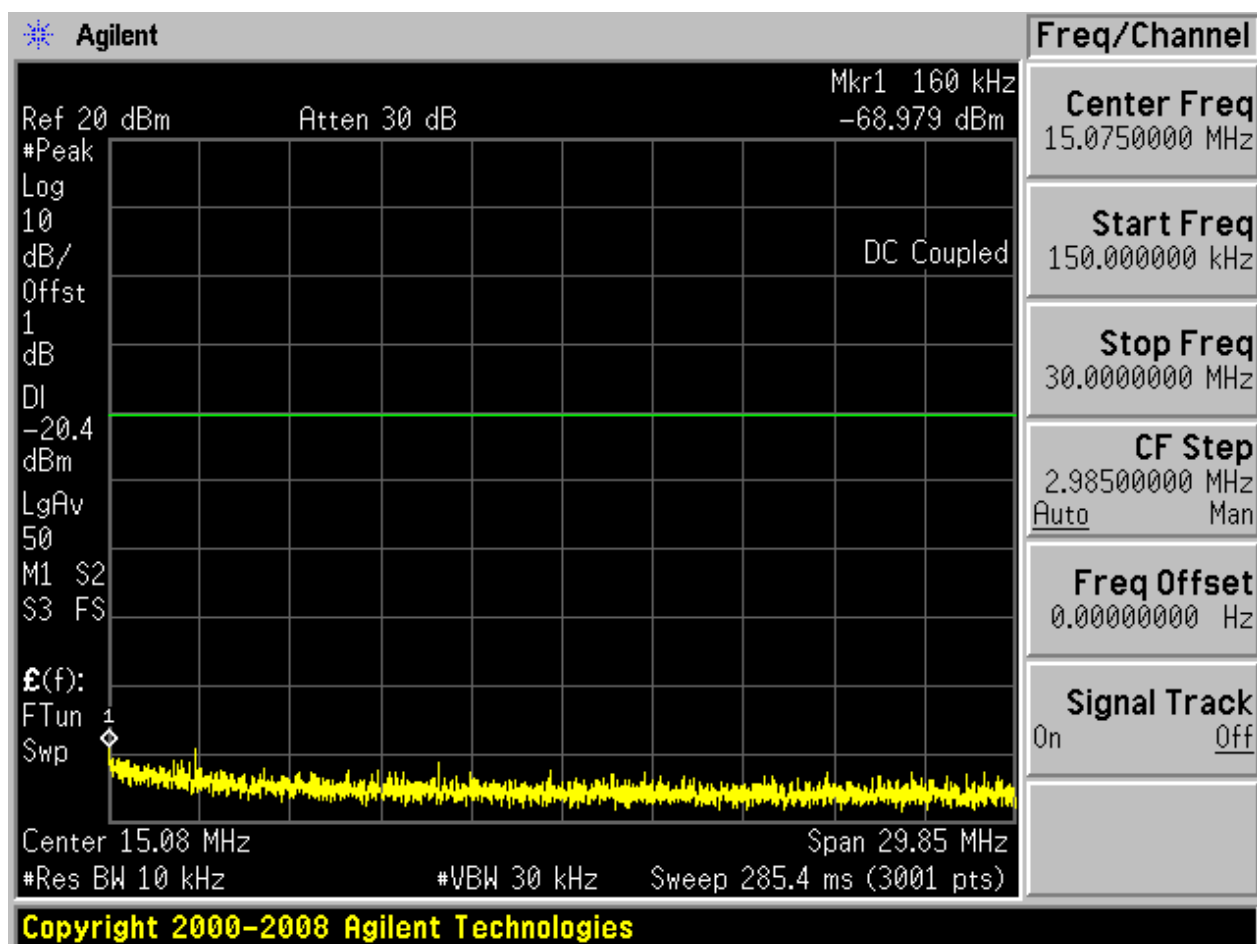
Pref:

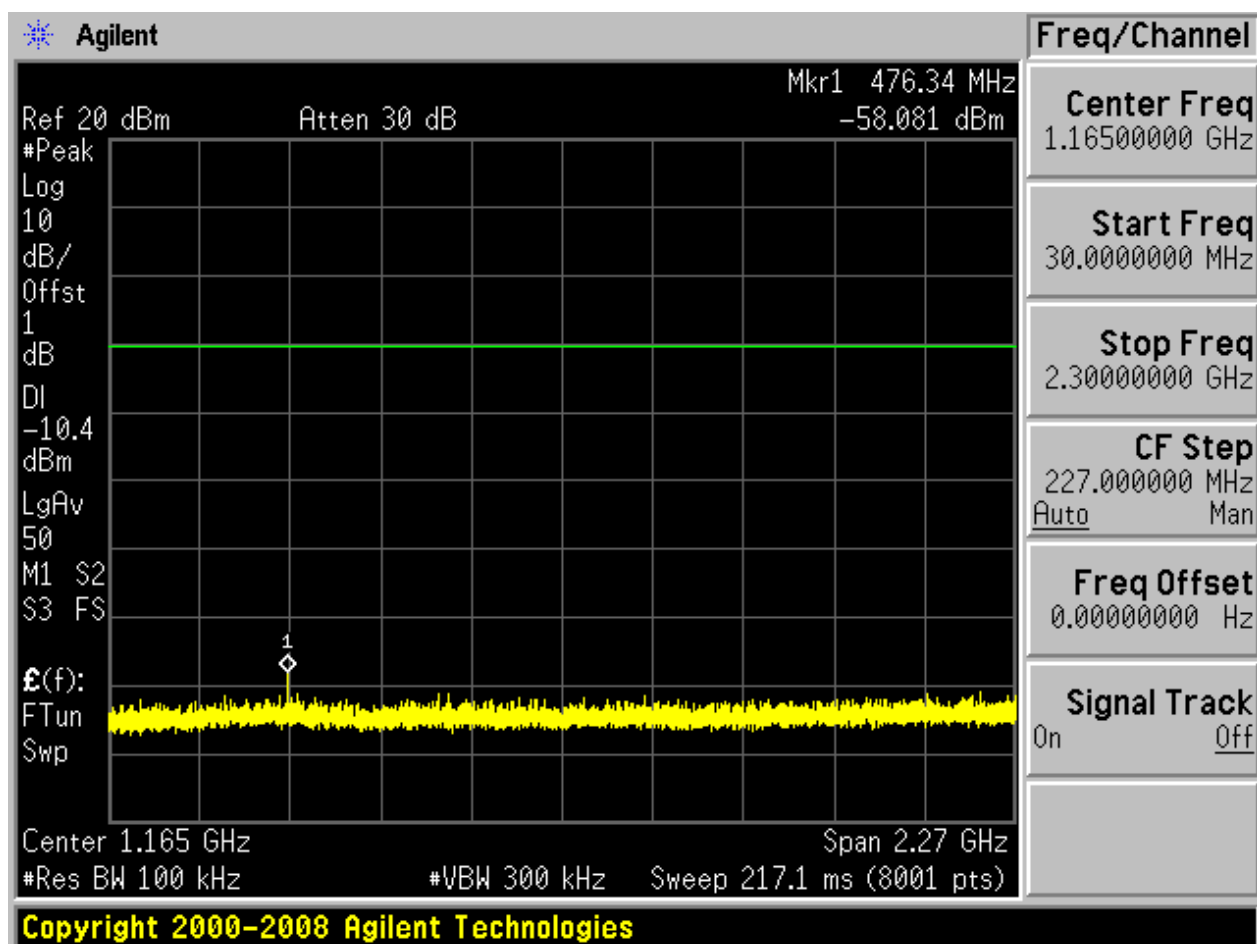


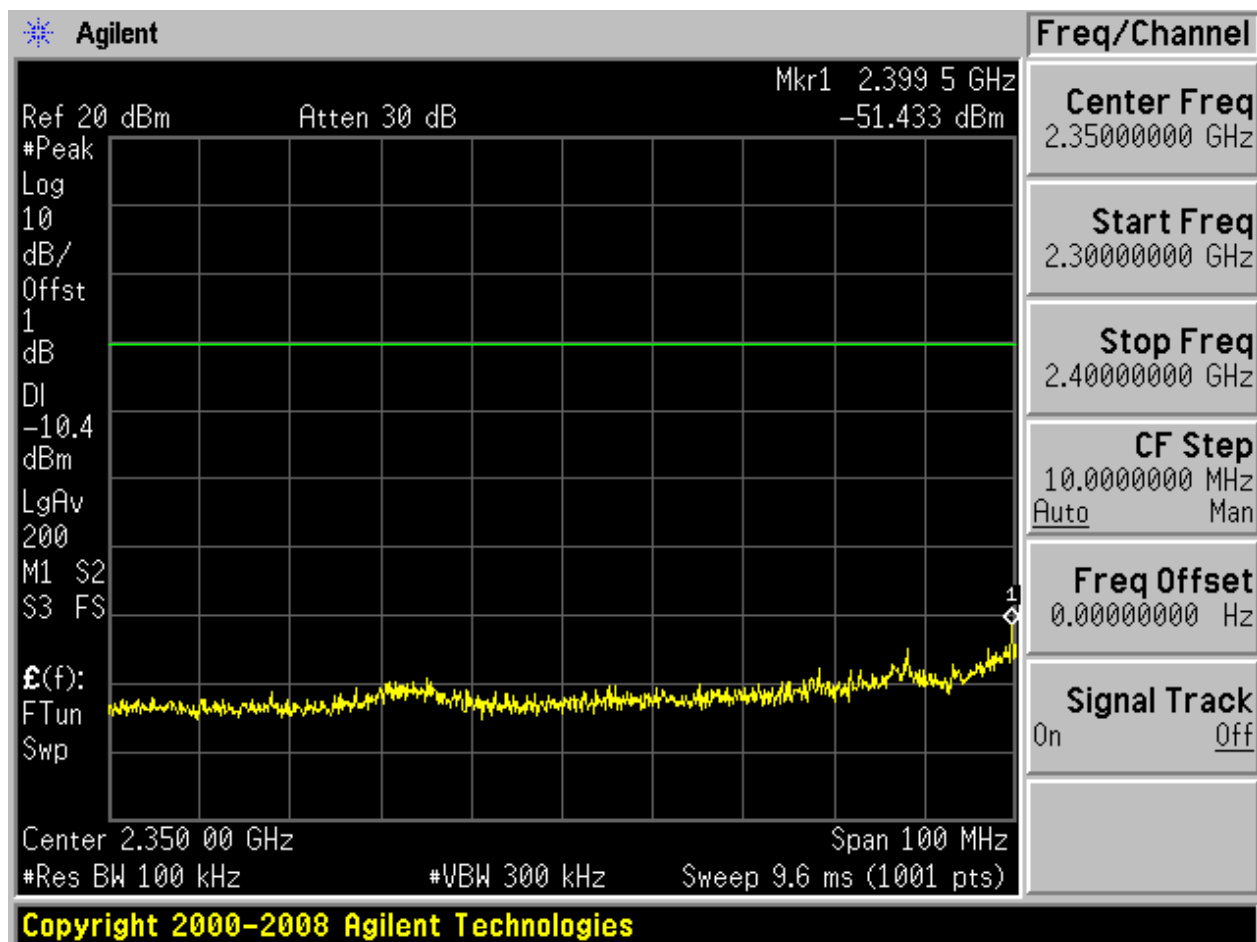


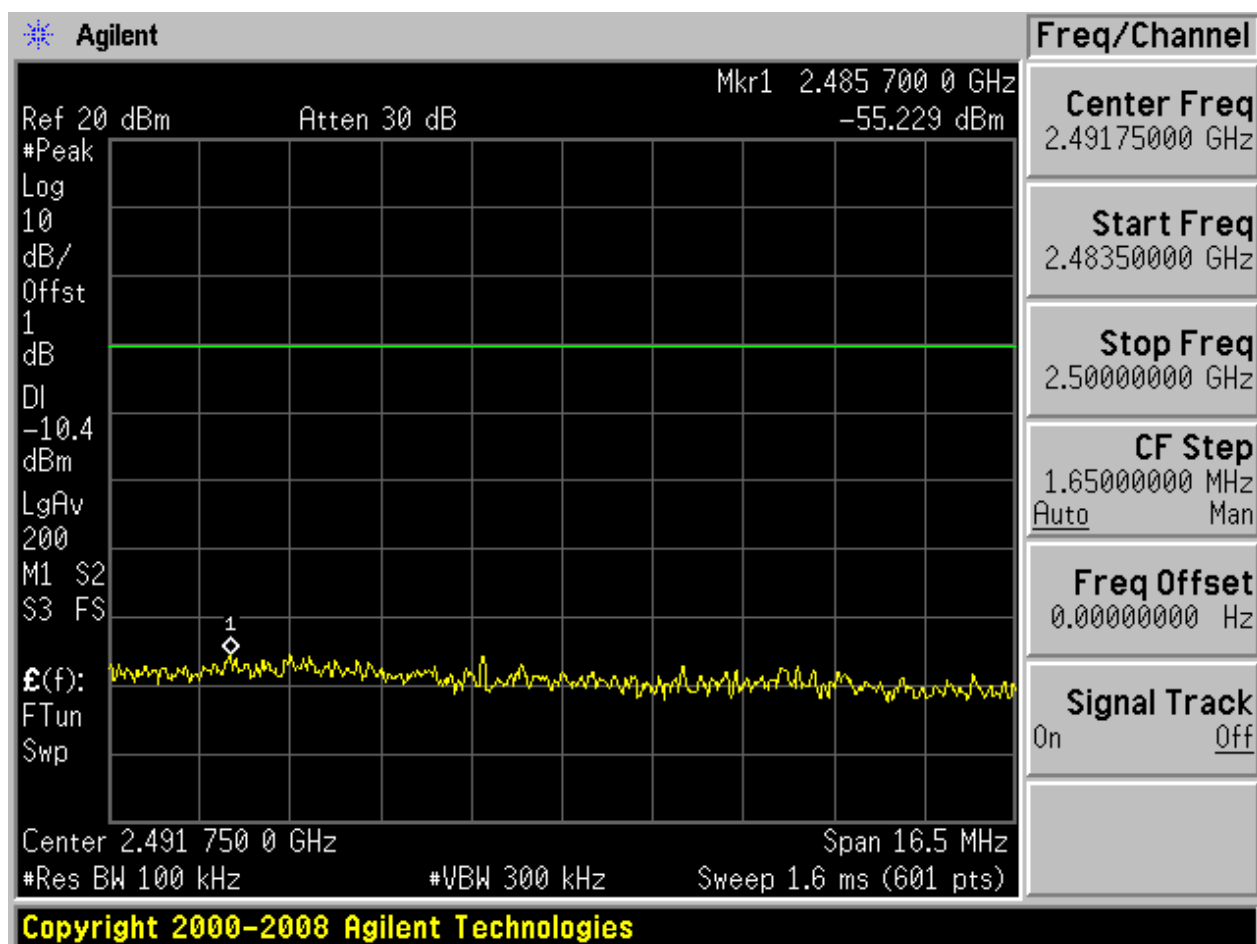
Puw:

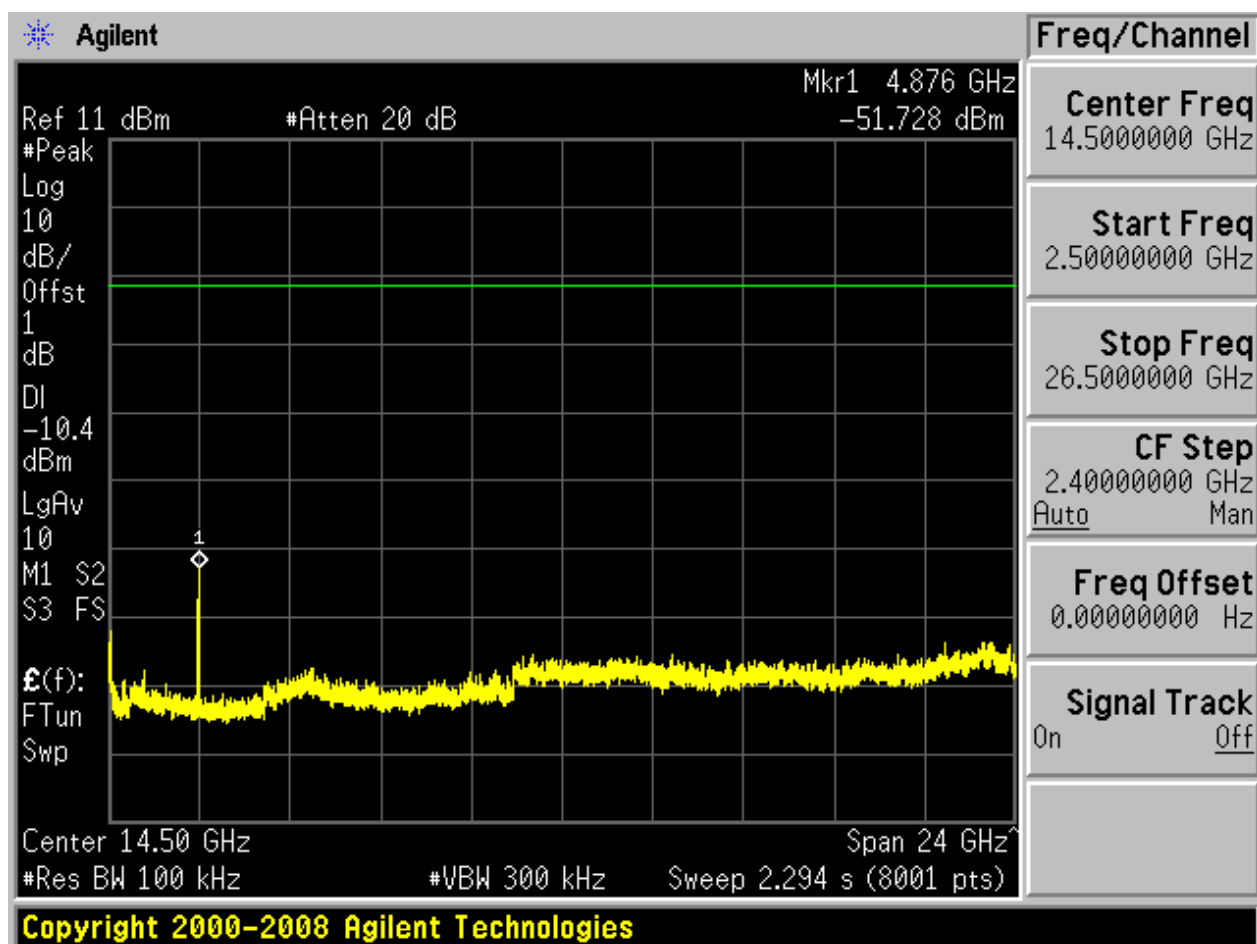








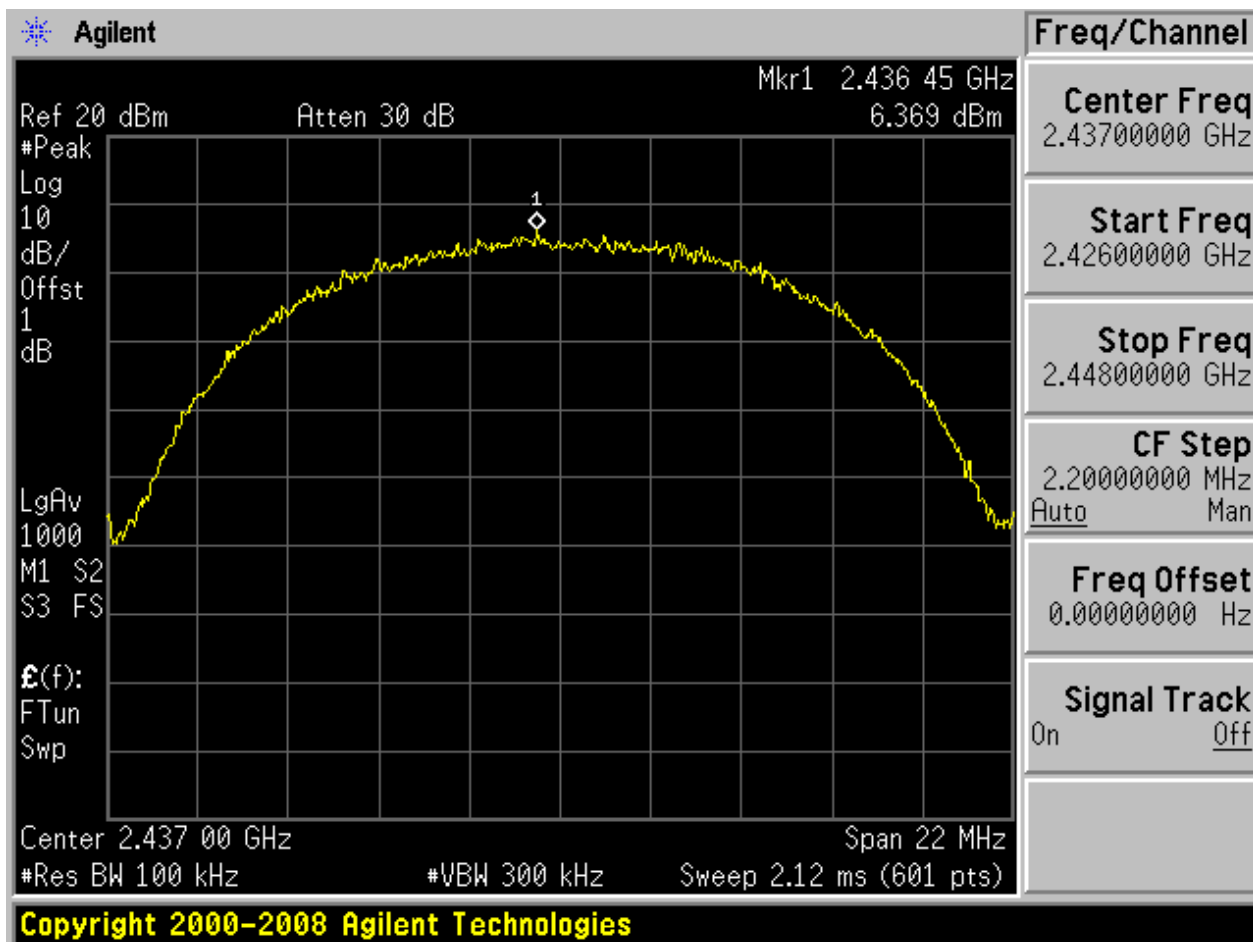






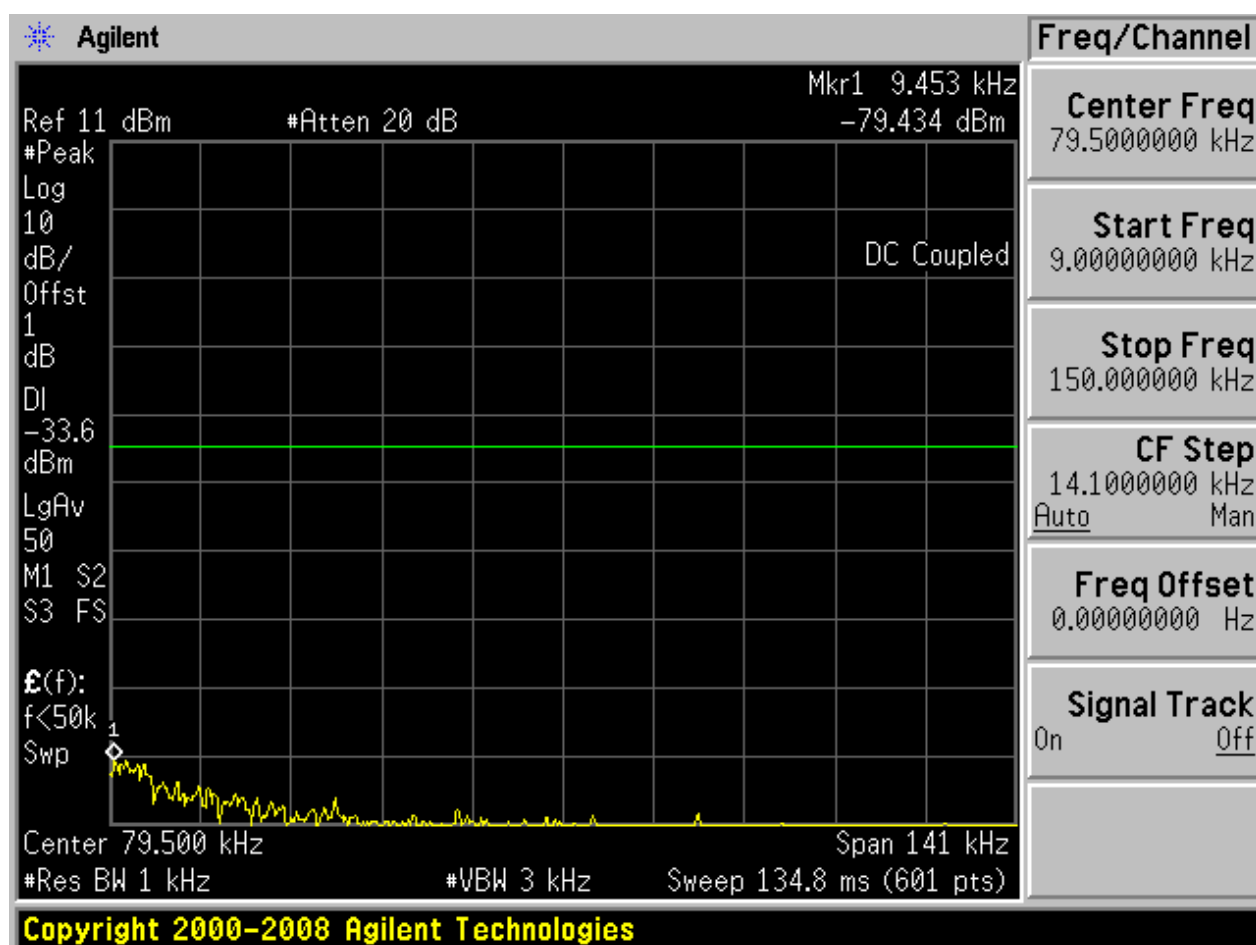
## 2.4 11B\_M@BG2

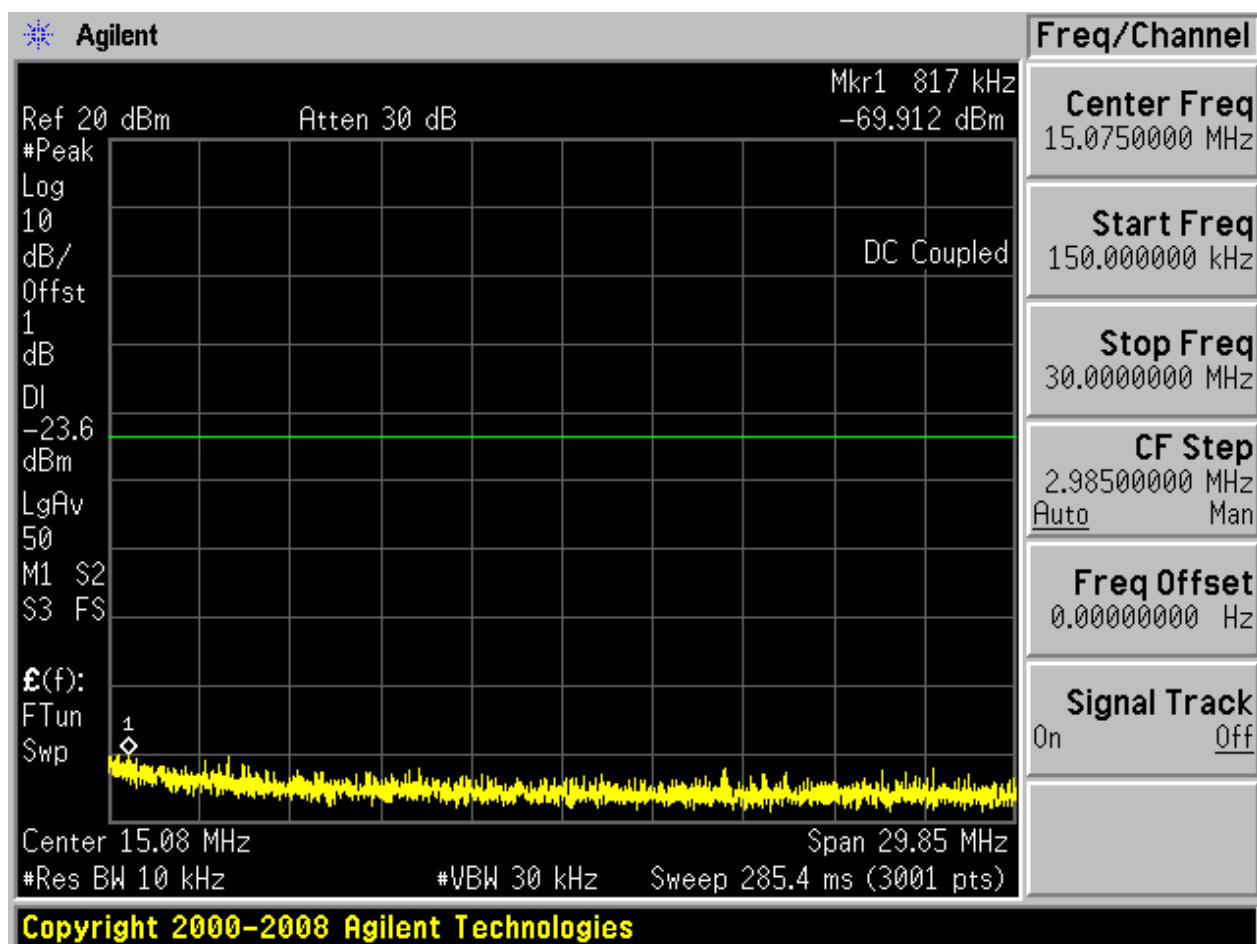
Pref:

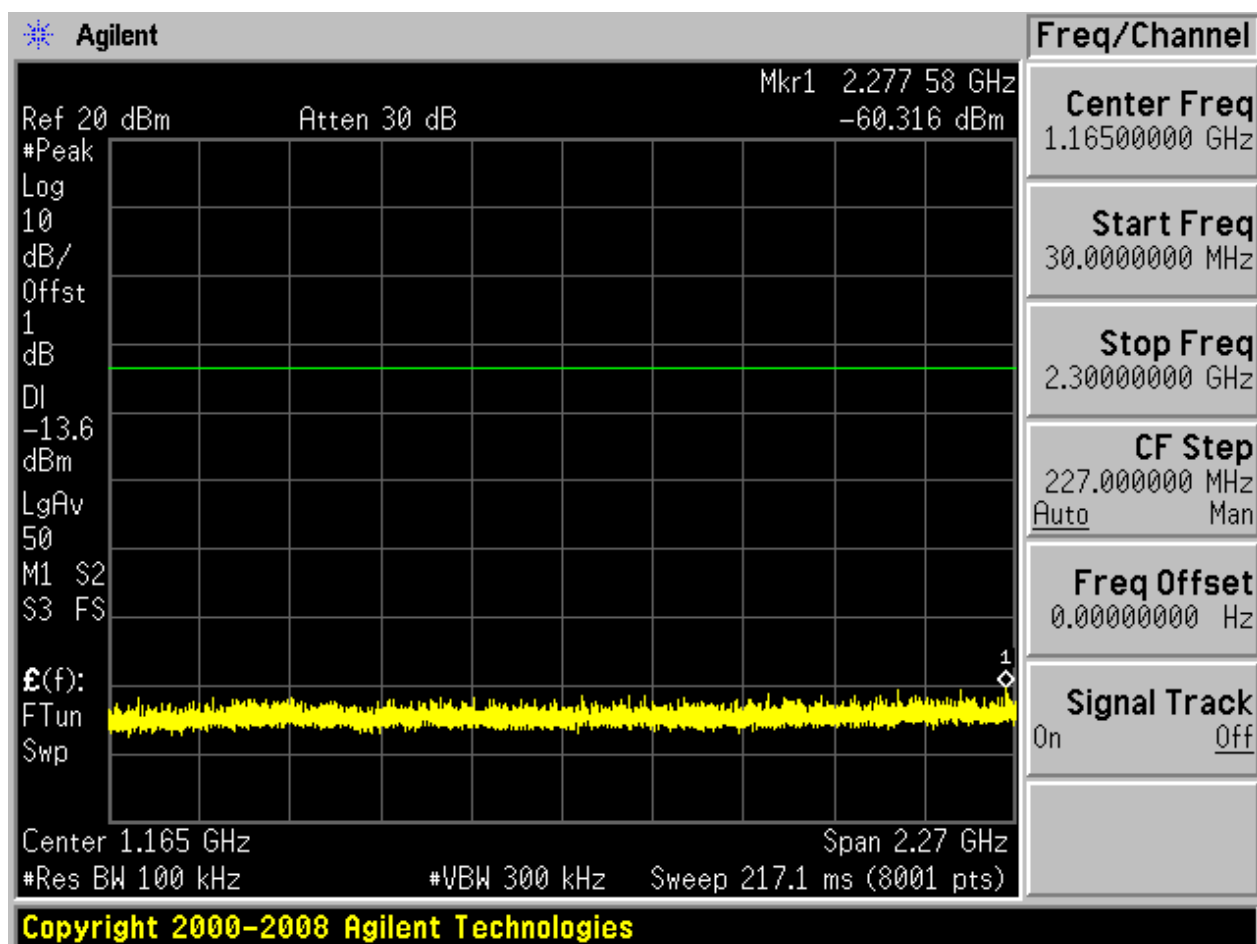


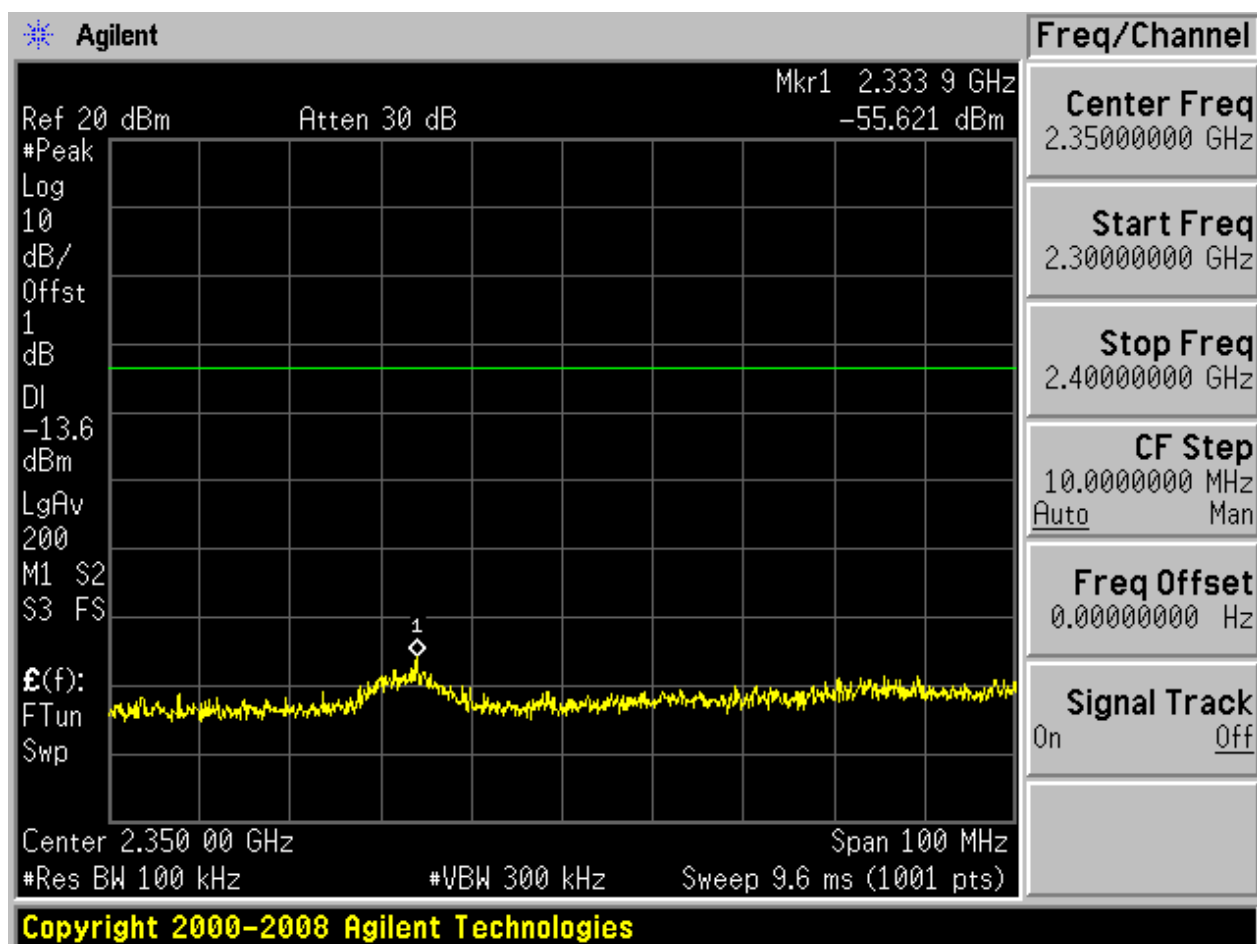


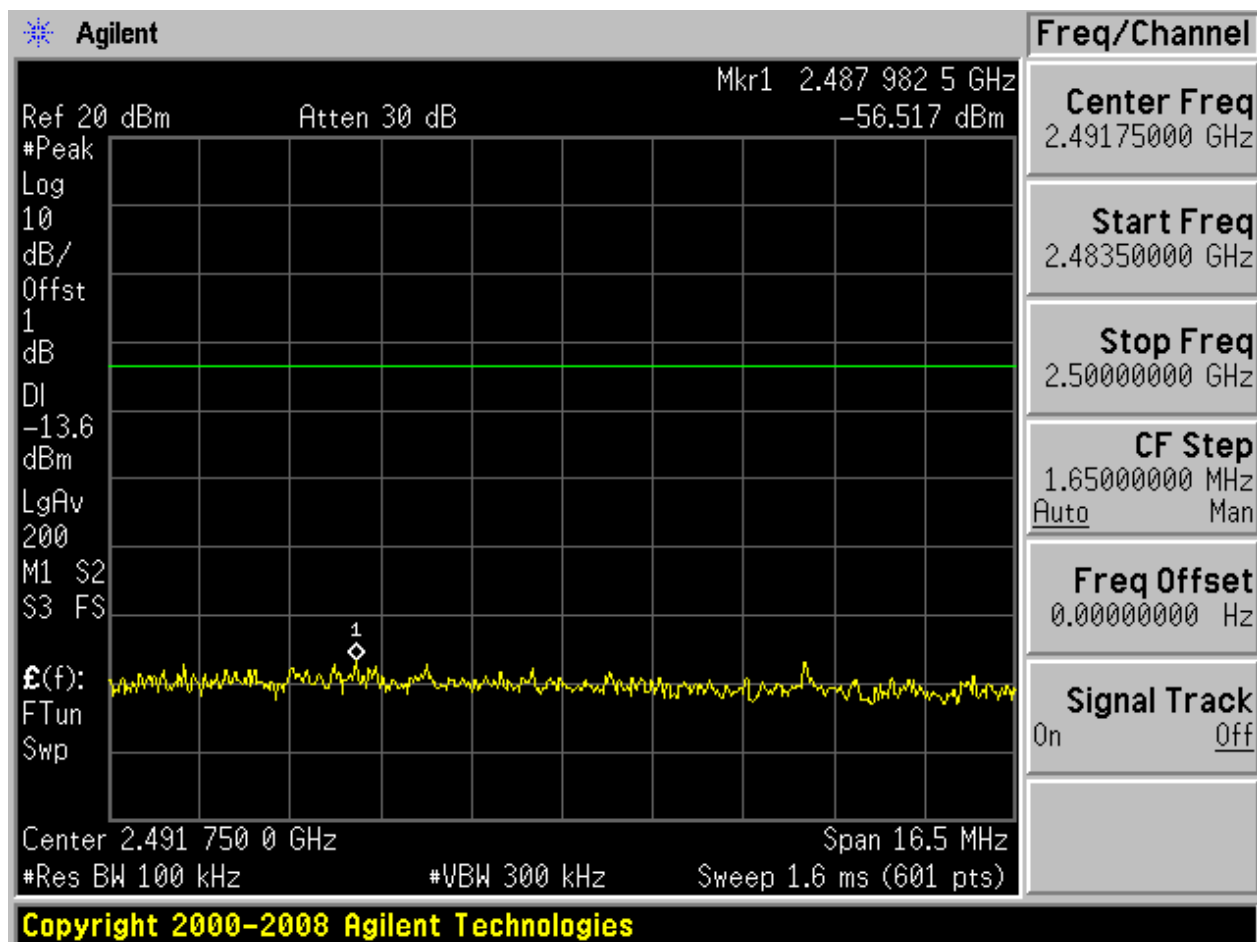
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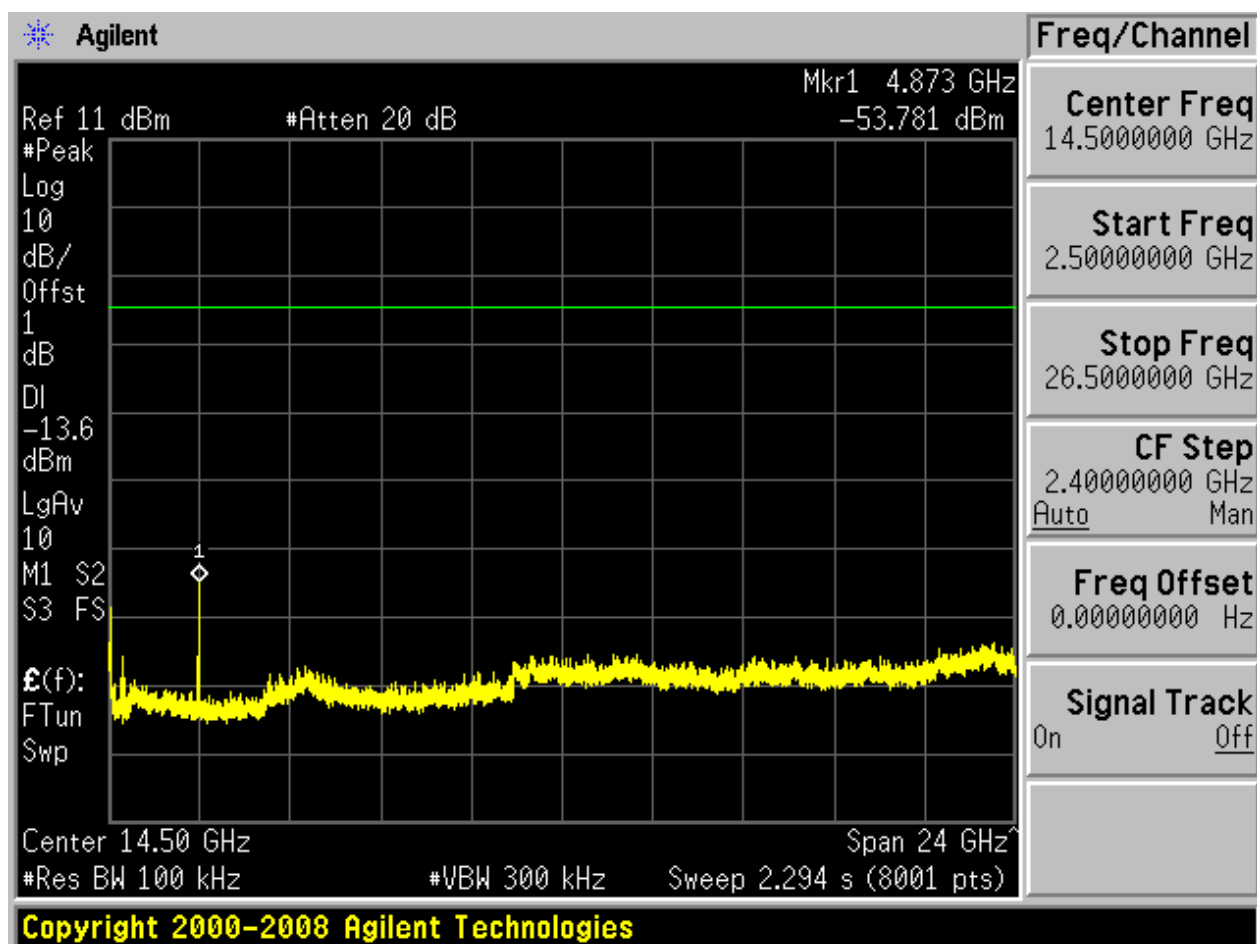








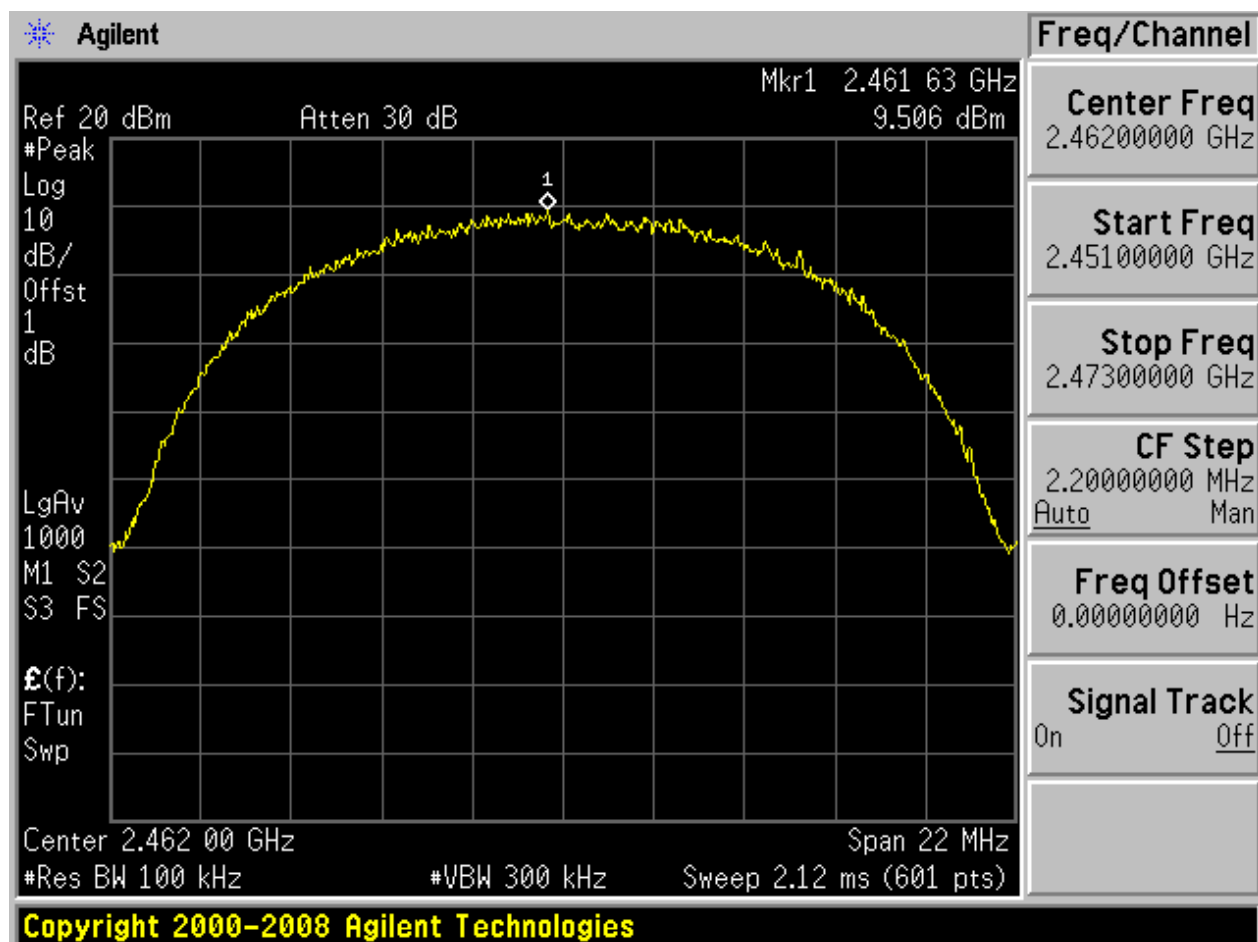






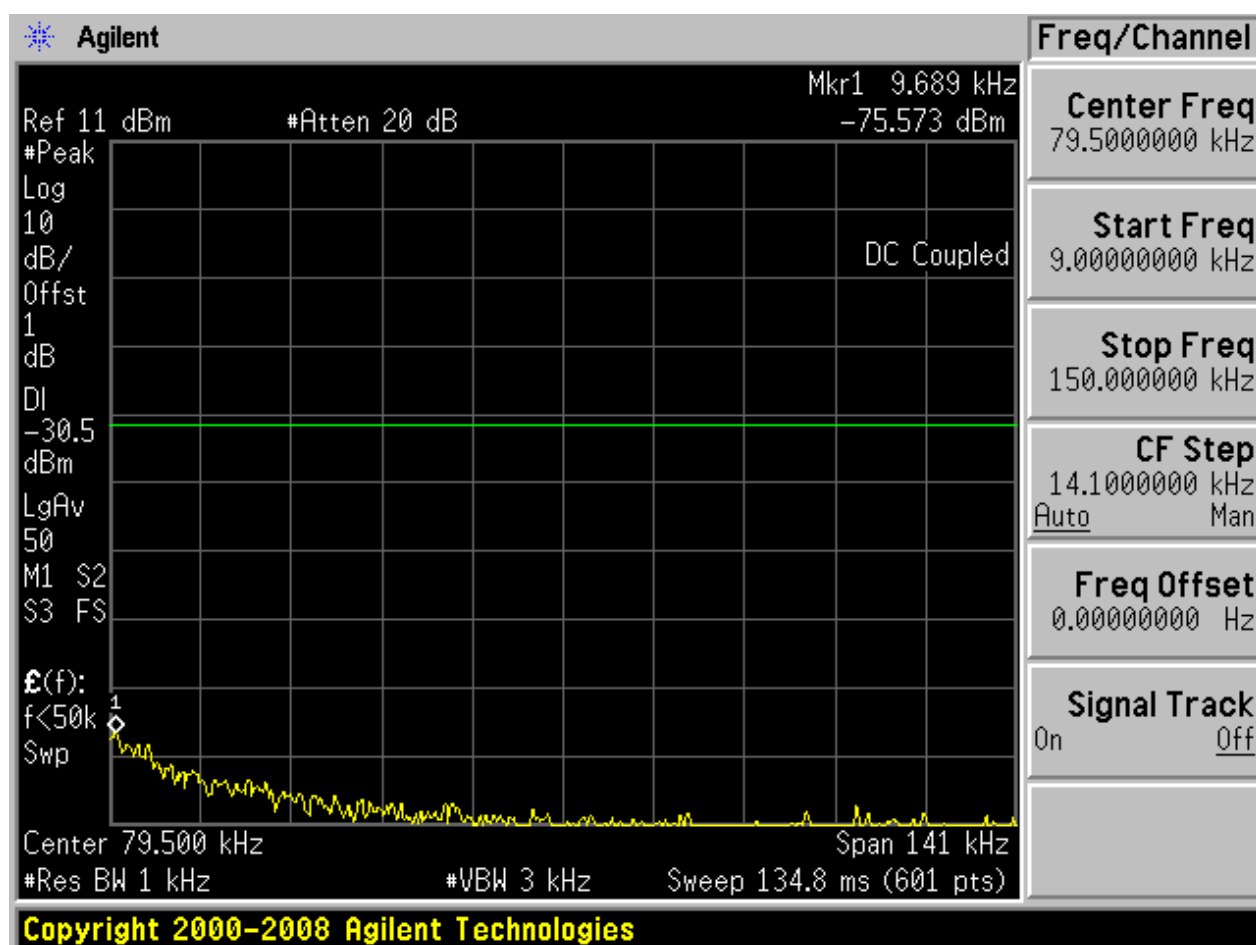
## 2.5 11B\_H@BG1

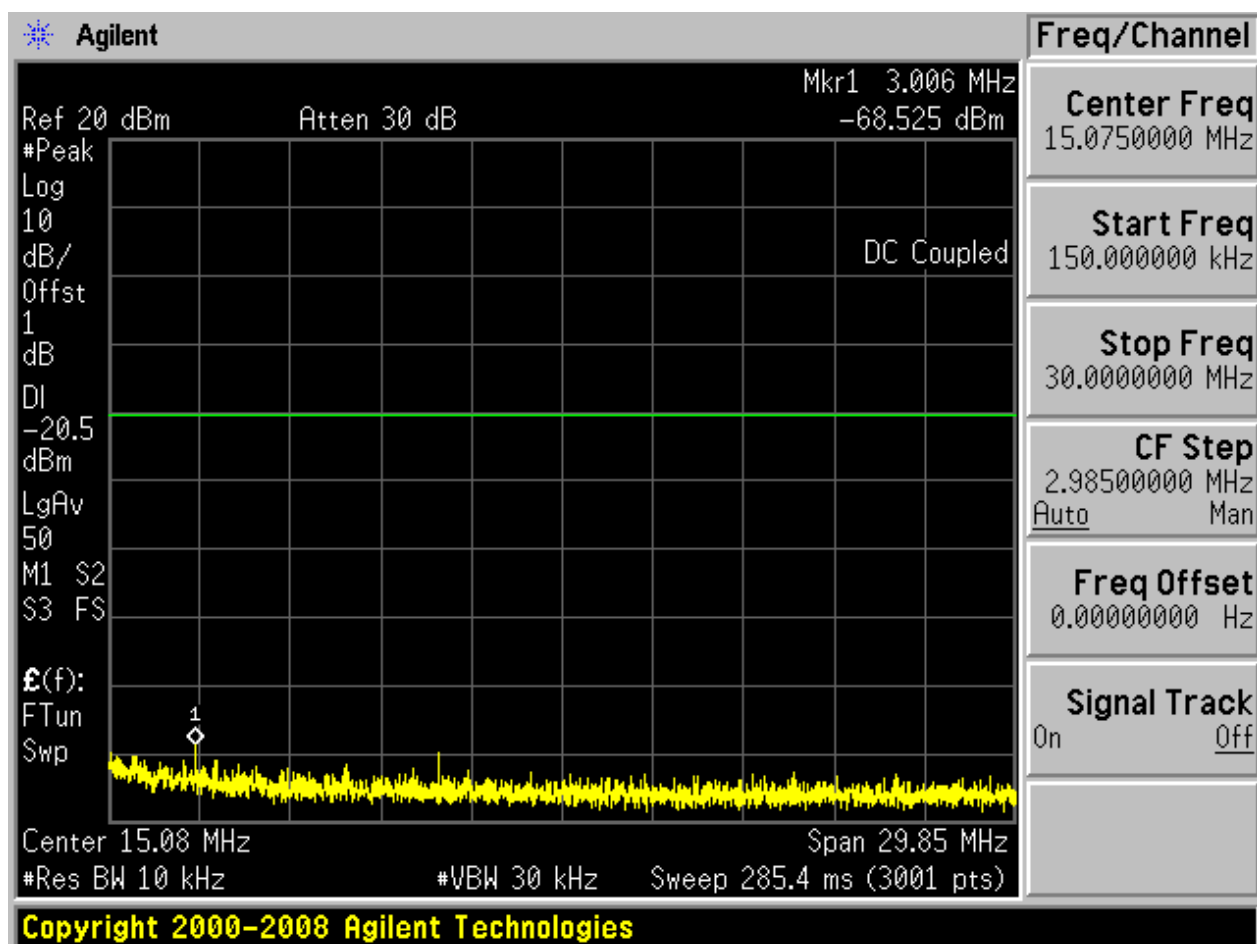
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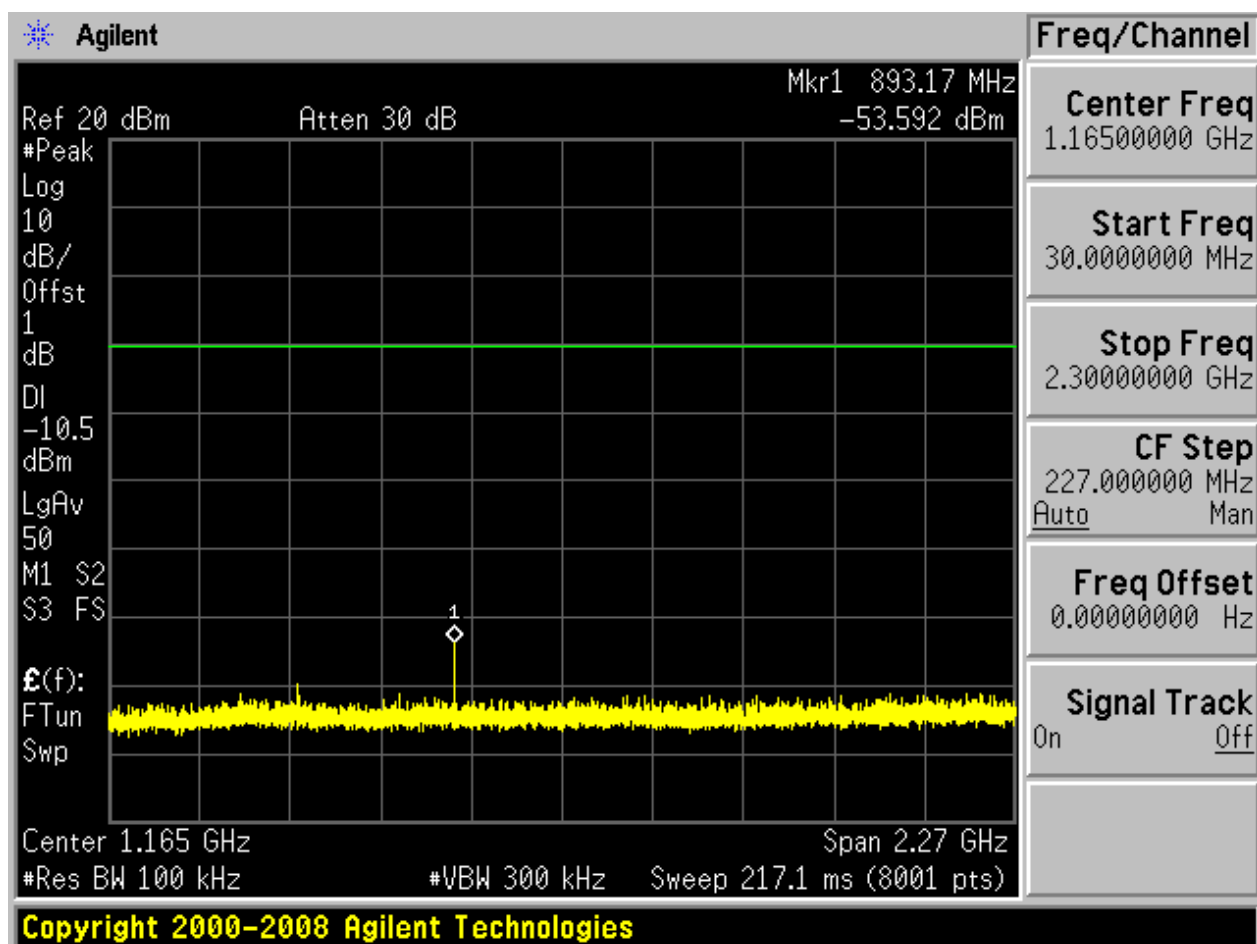


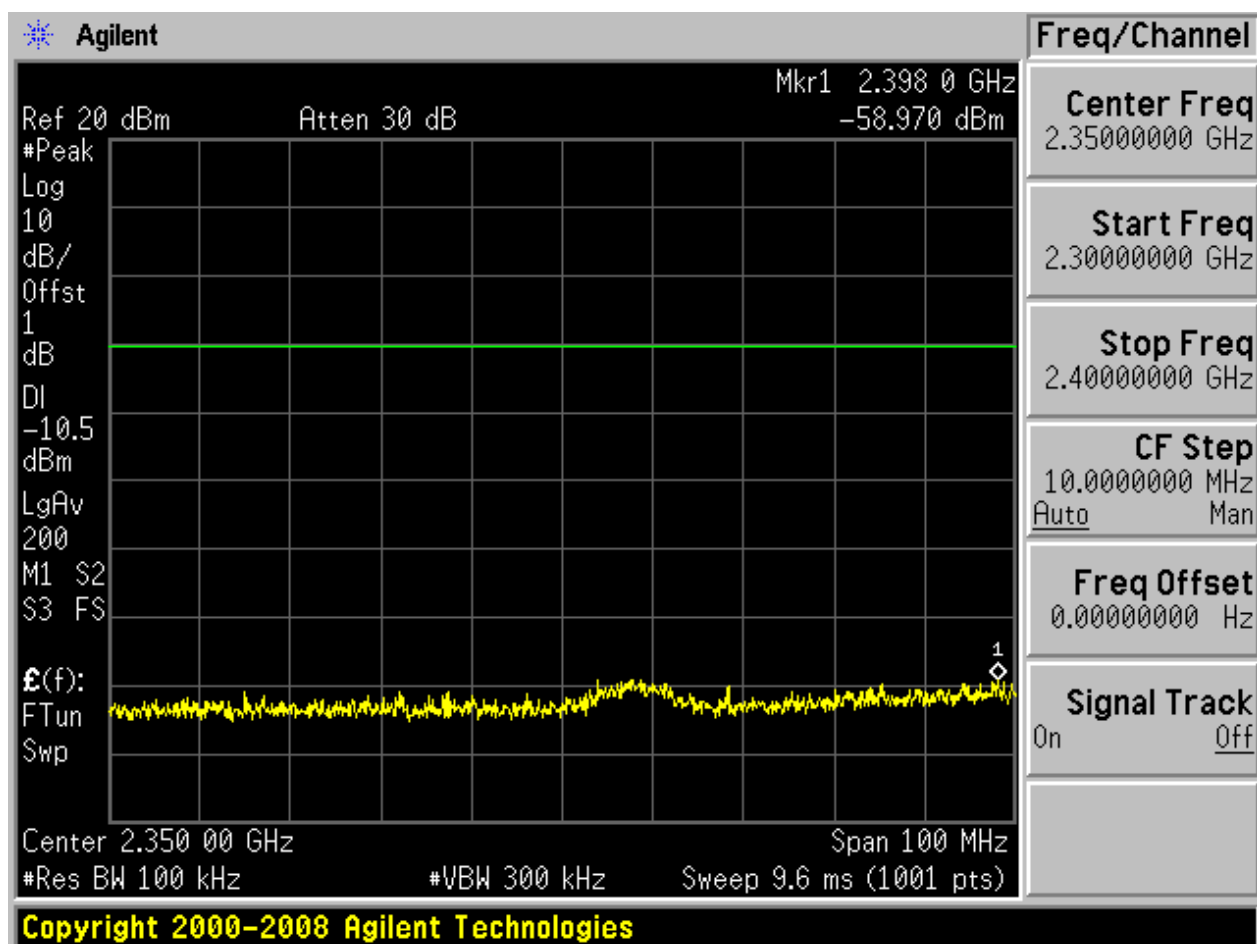


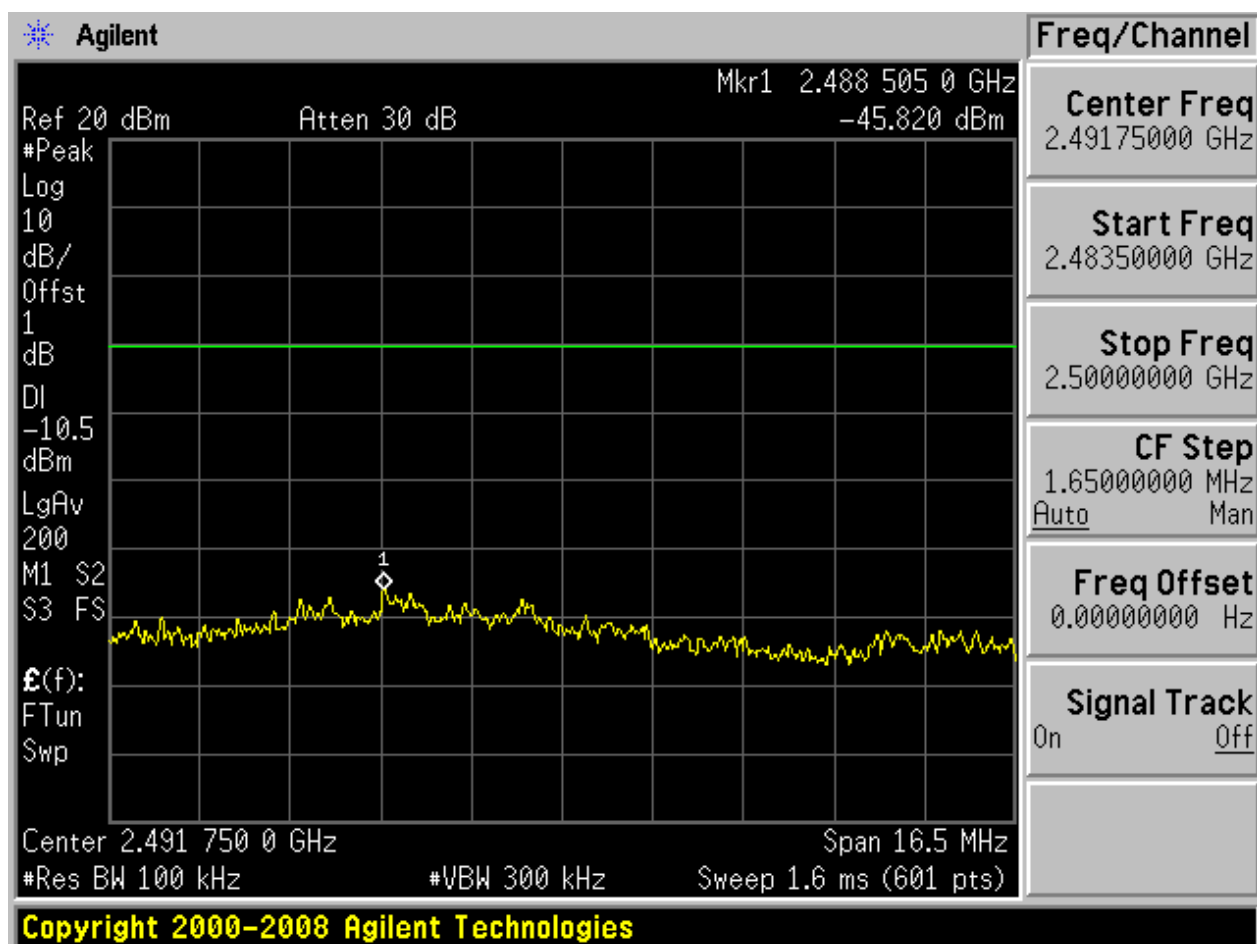
Puw:

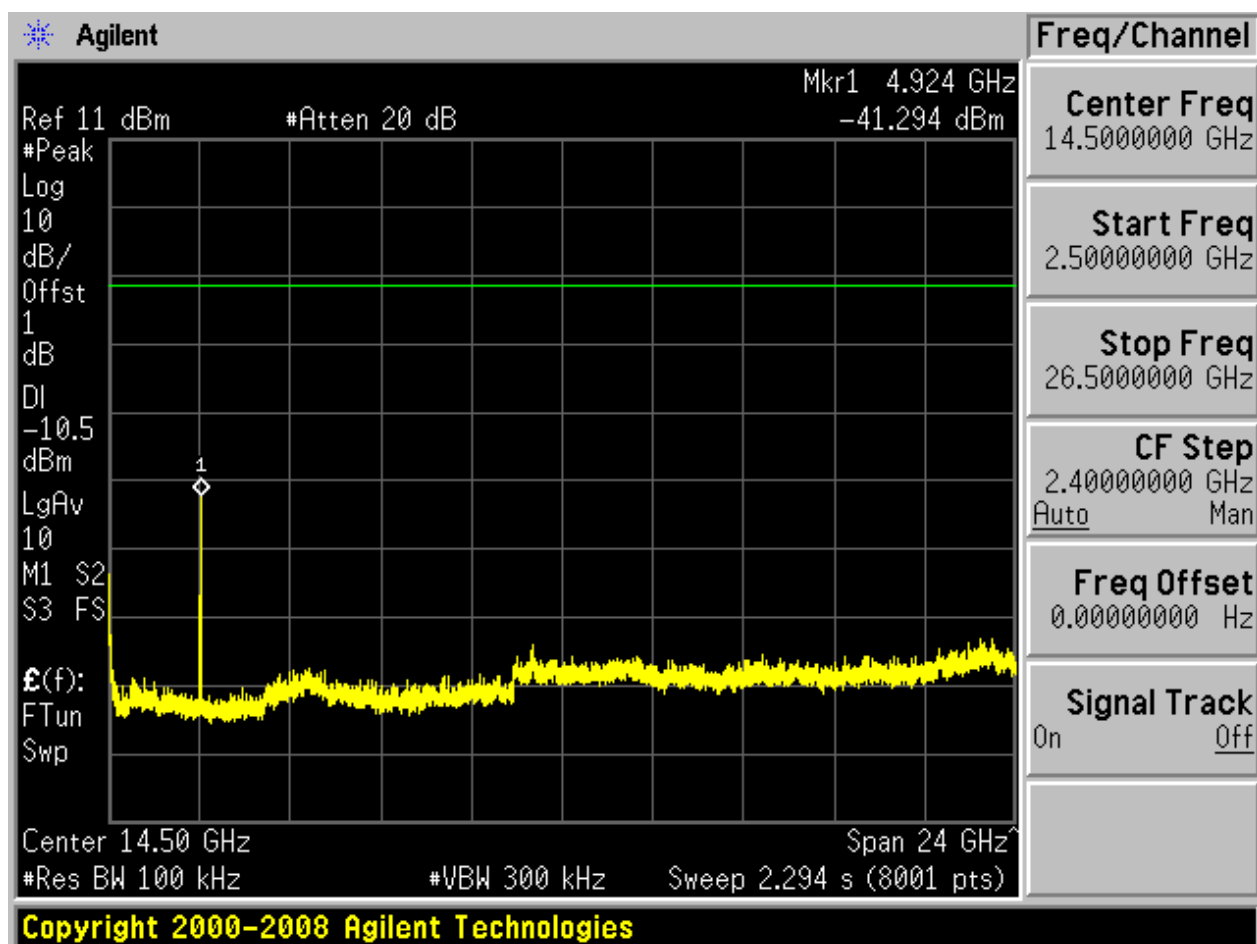








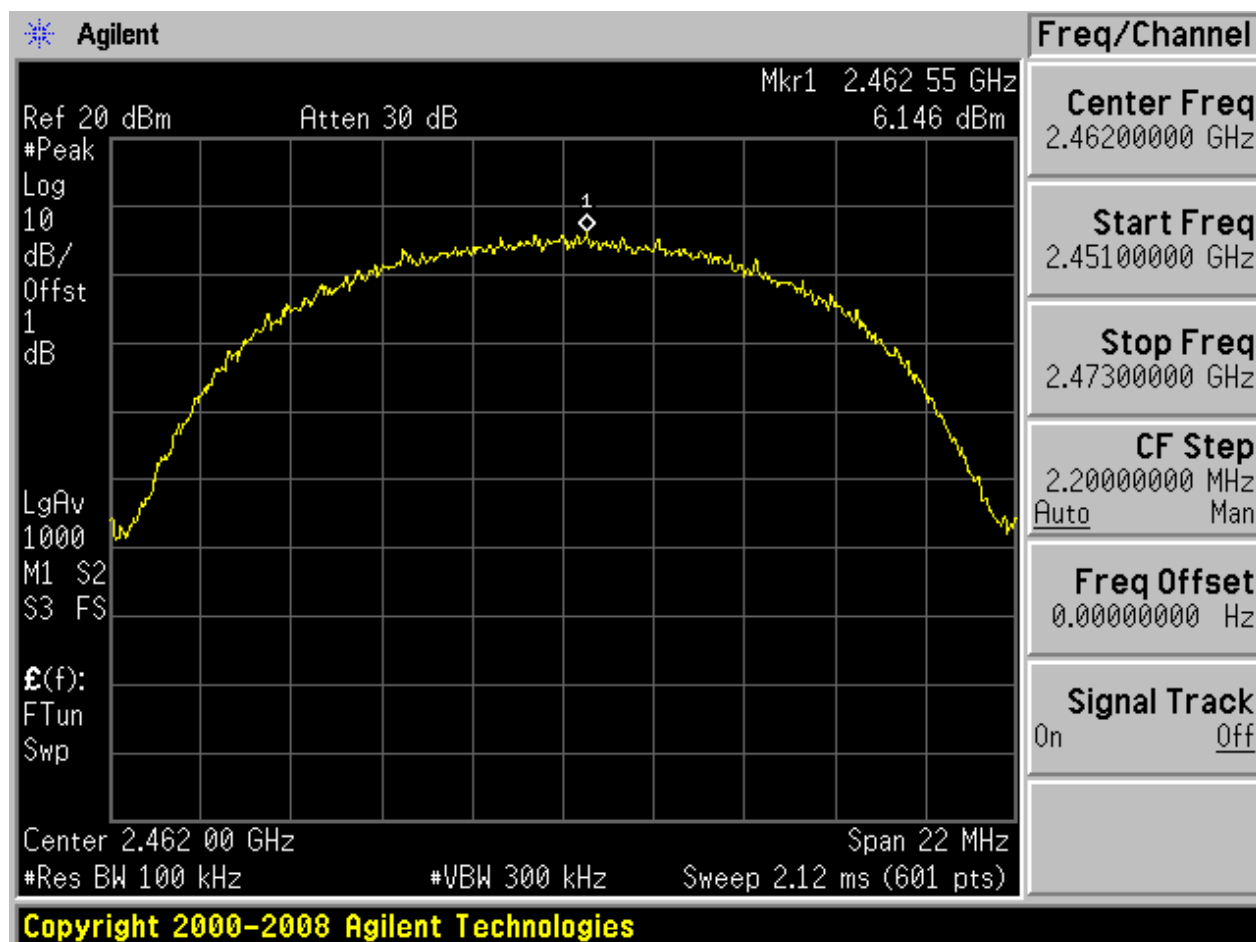






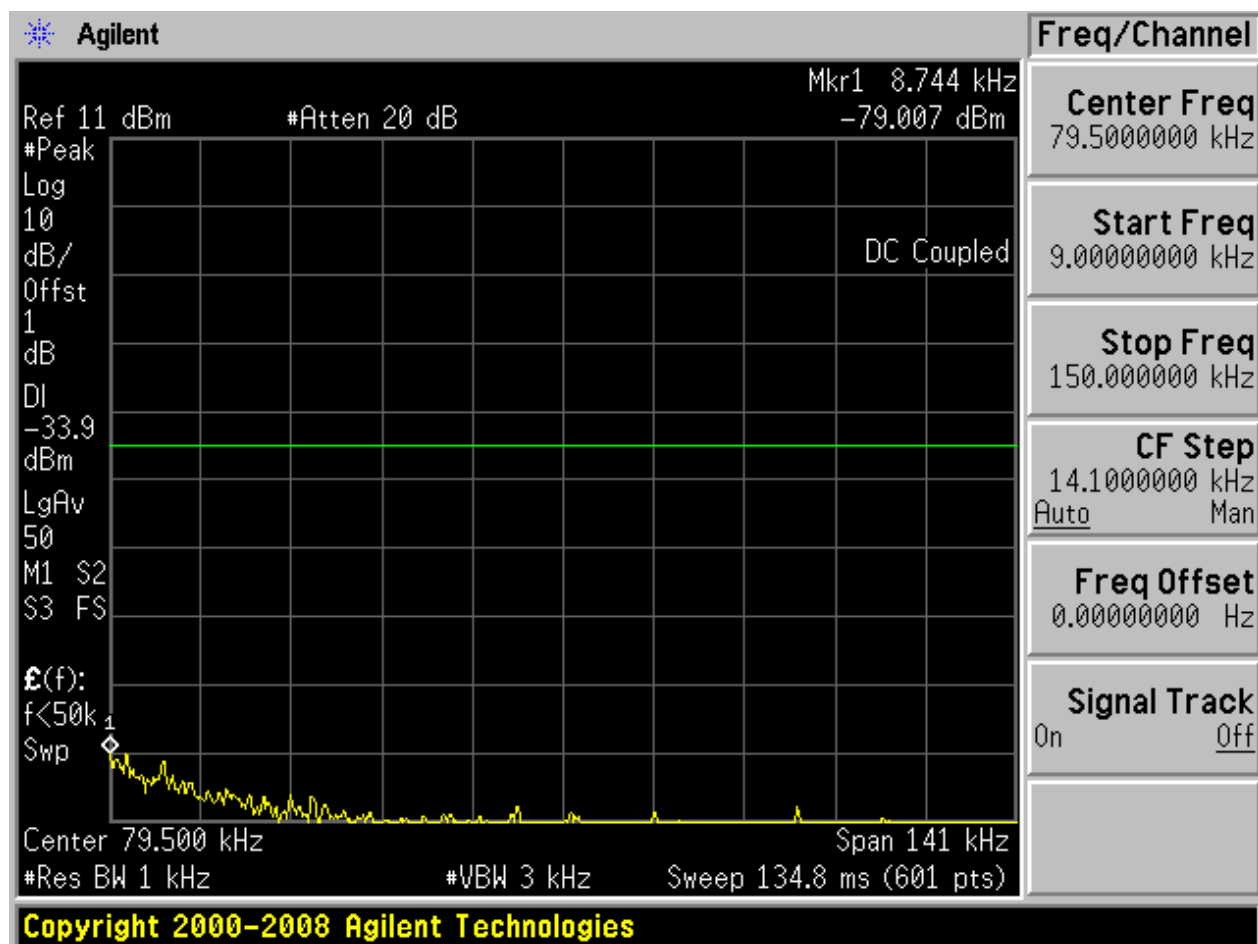
## 2.6 11B\_H@BG2

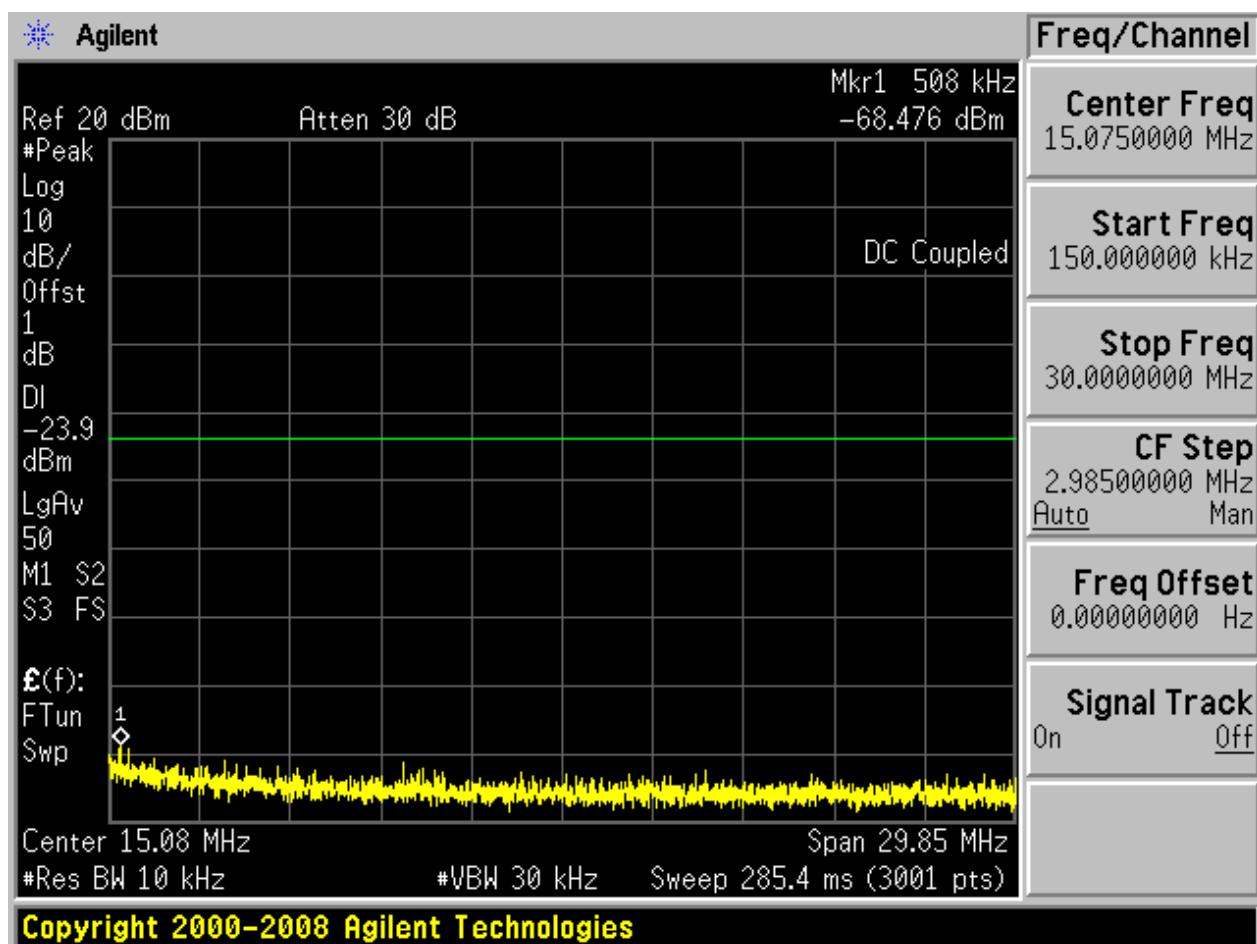
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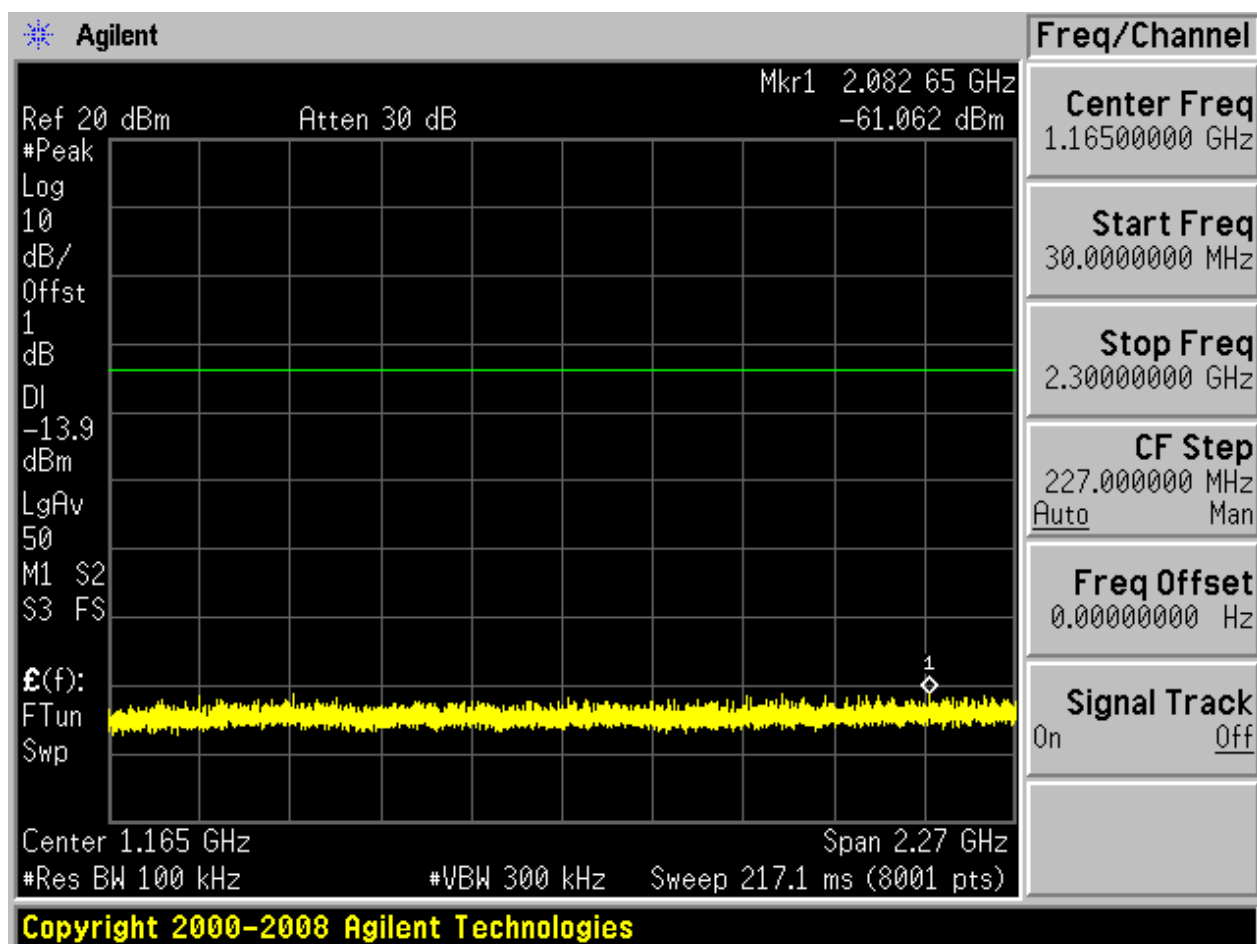


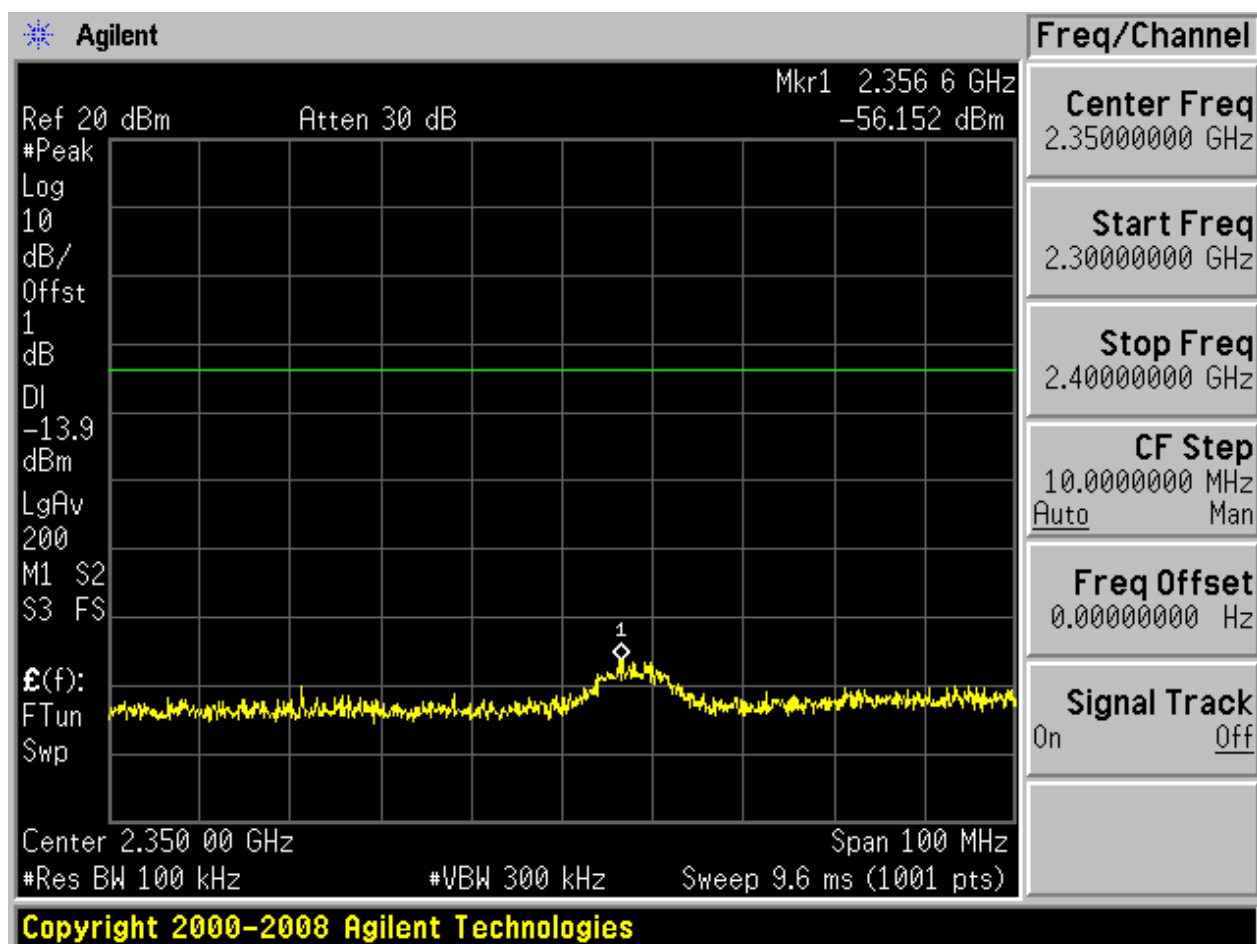


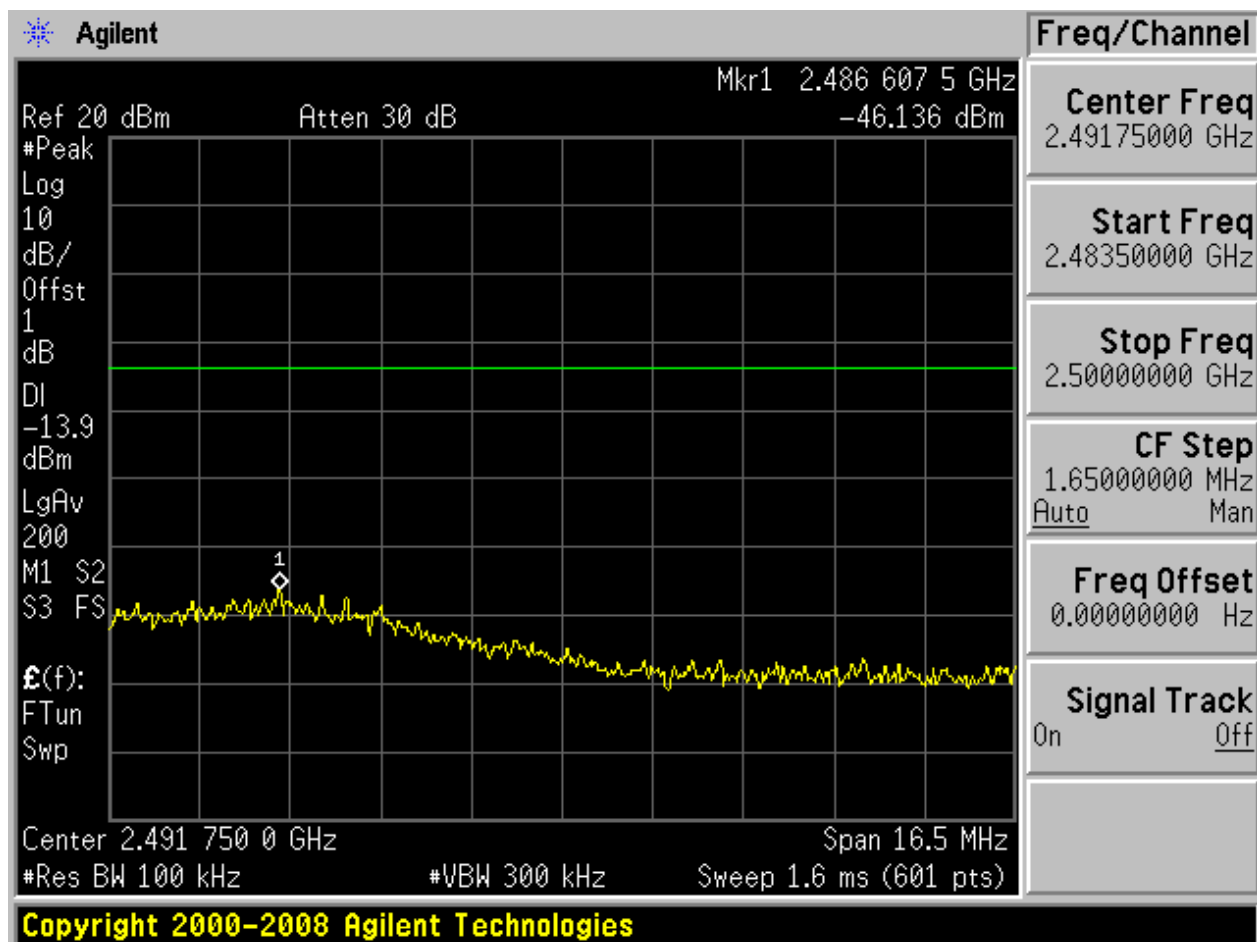
Puw:

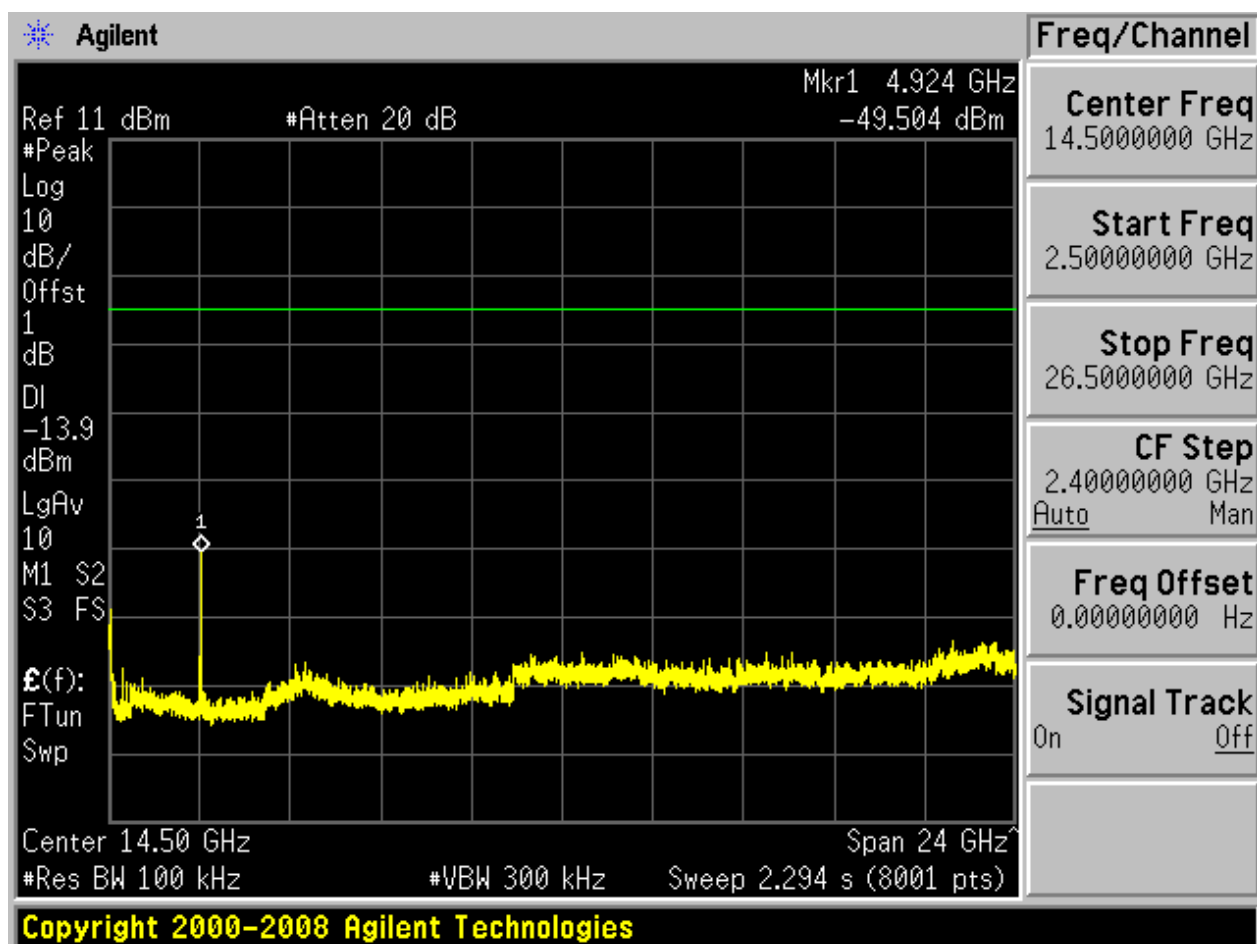








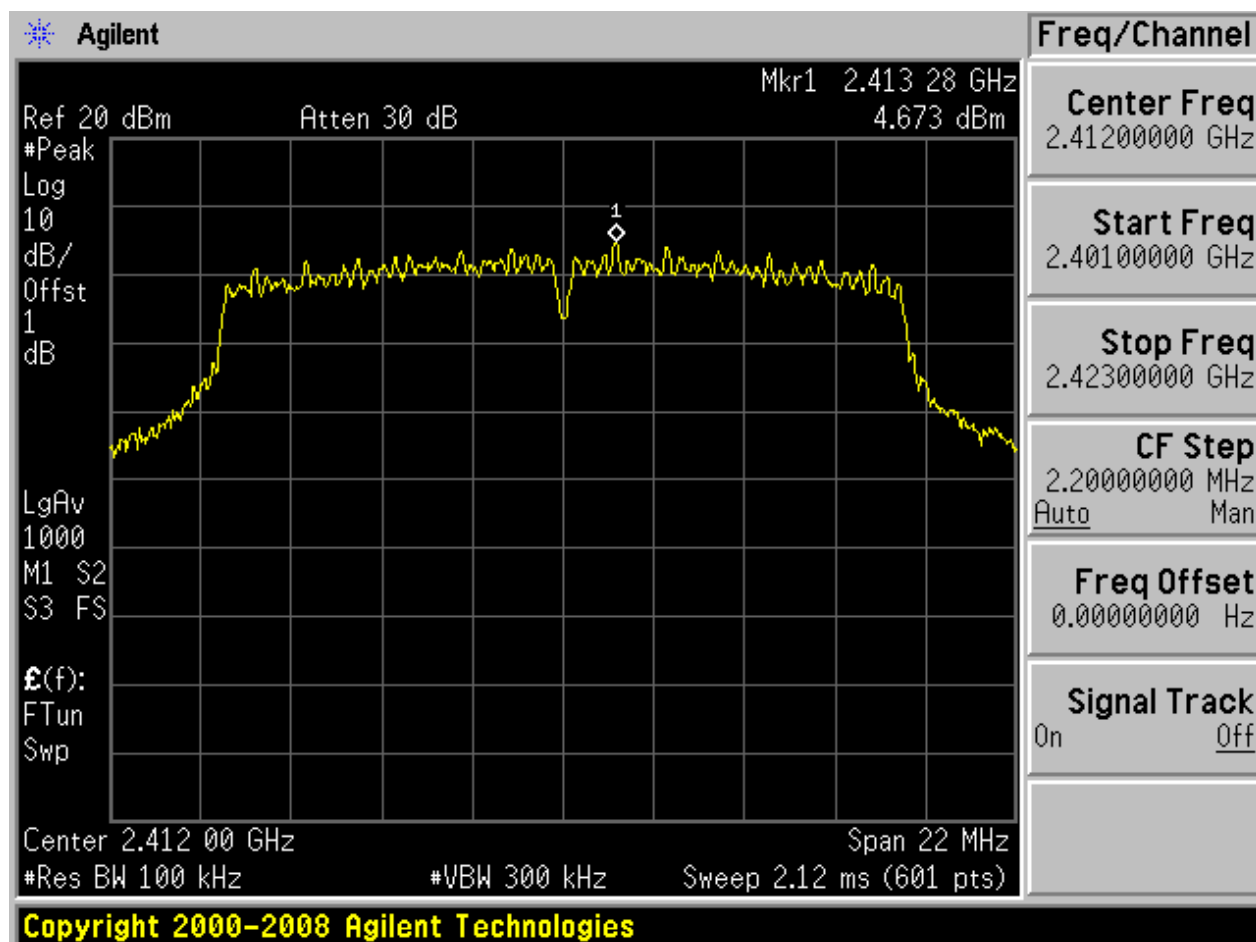






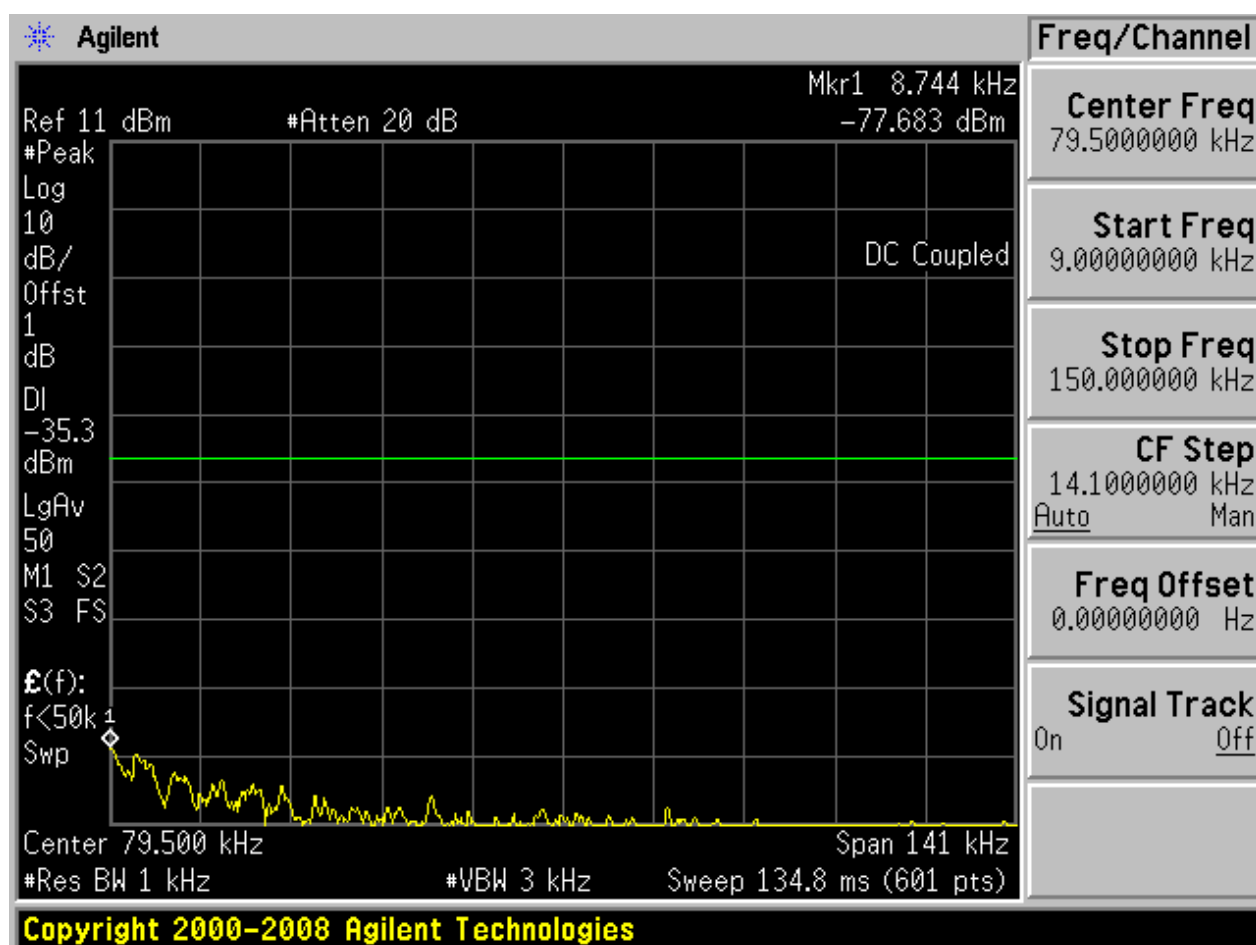
## 2.7 11G\_L@BG1

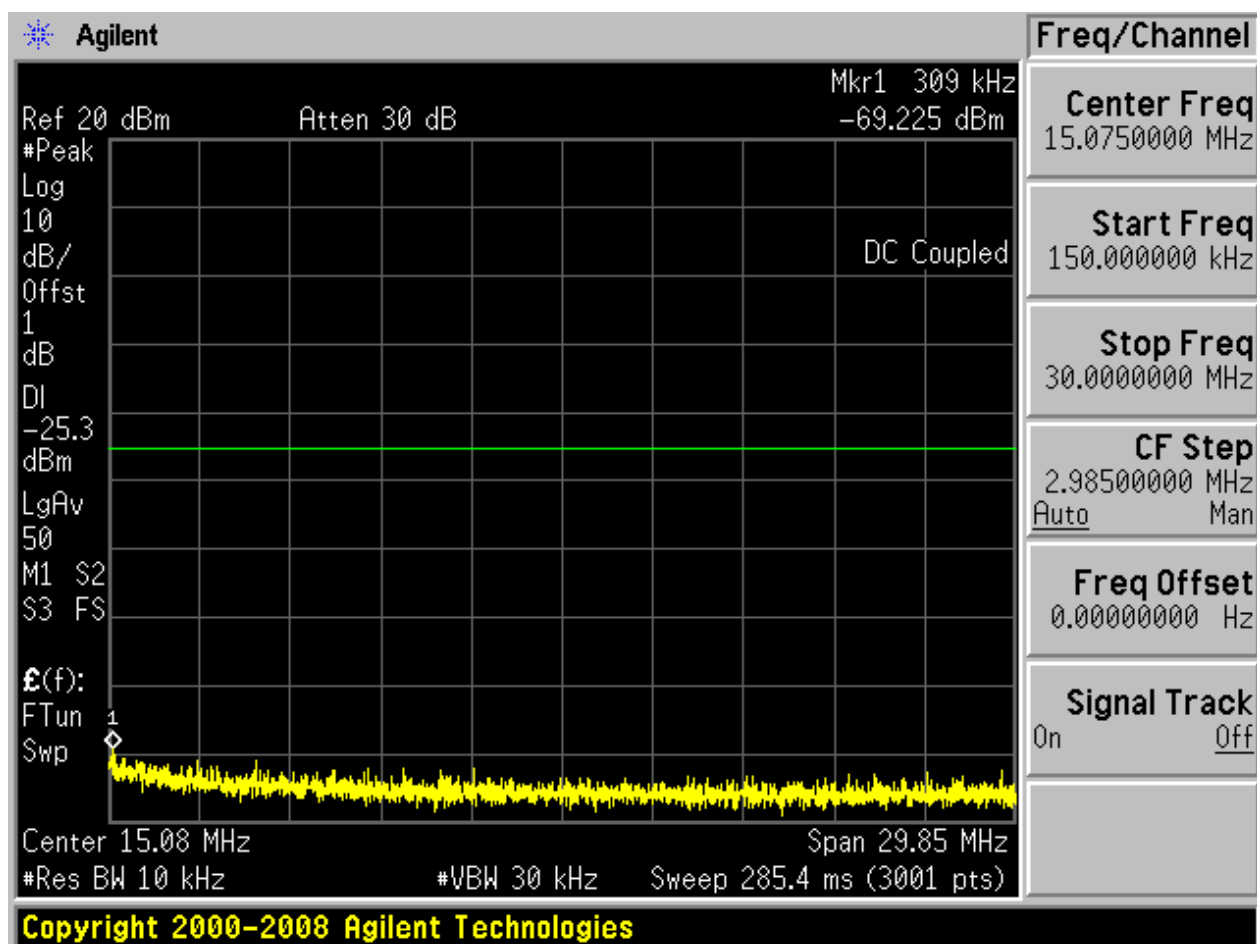
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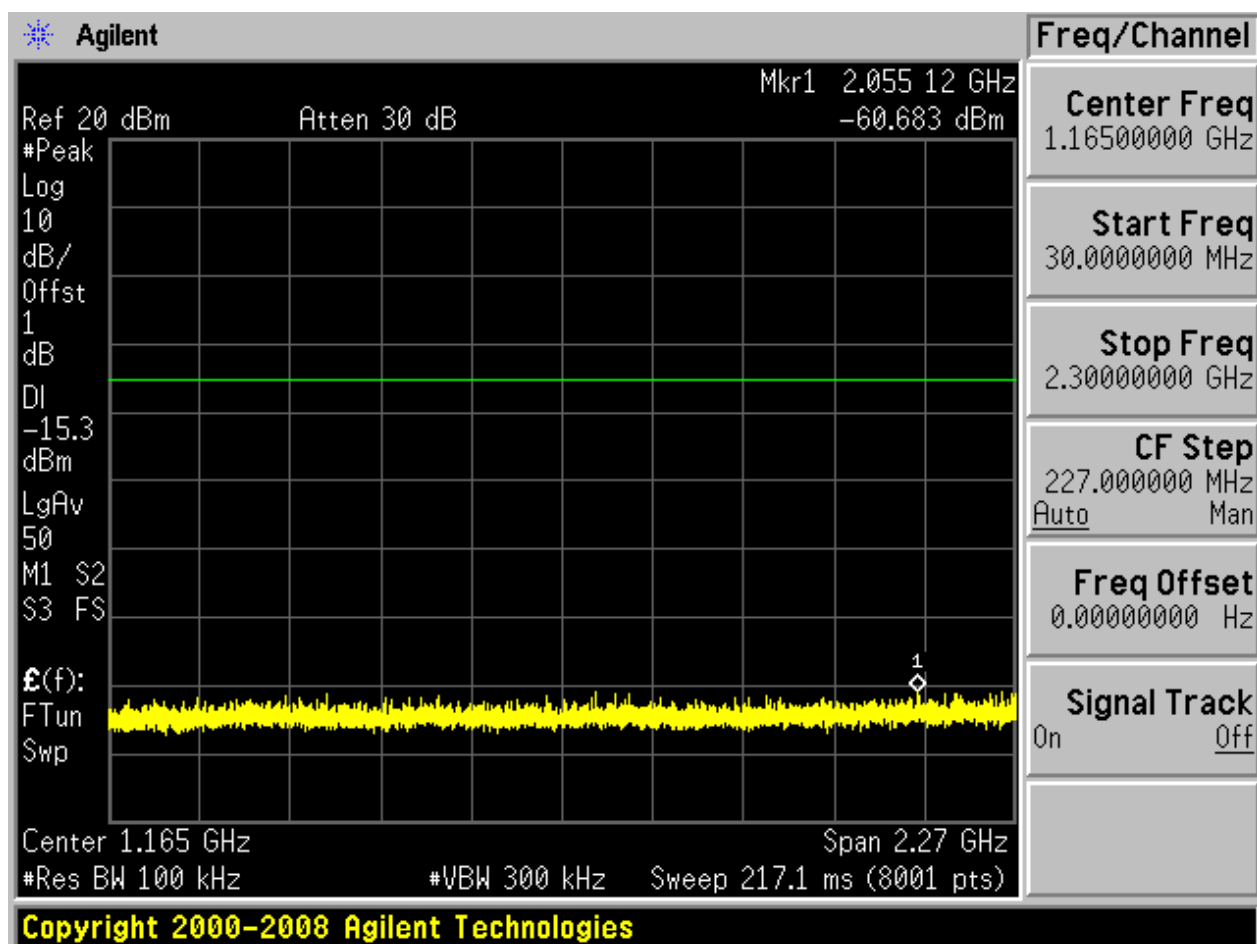


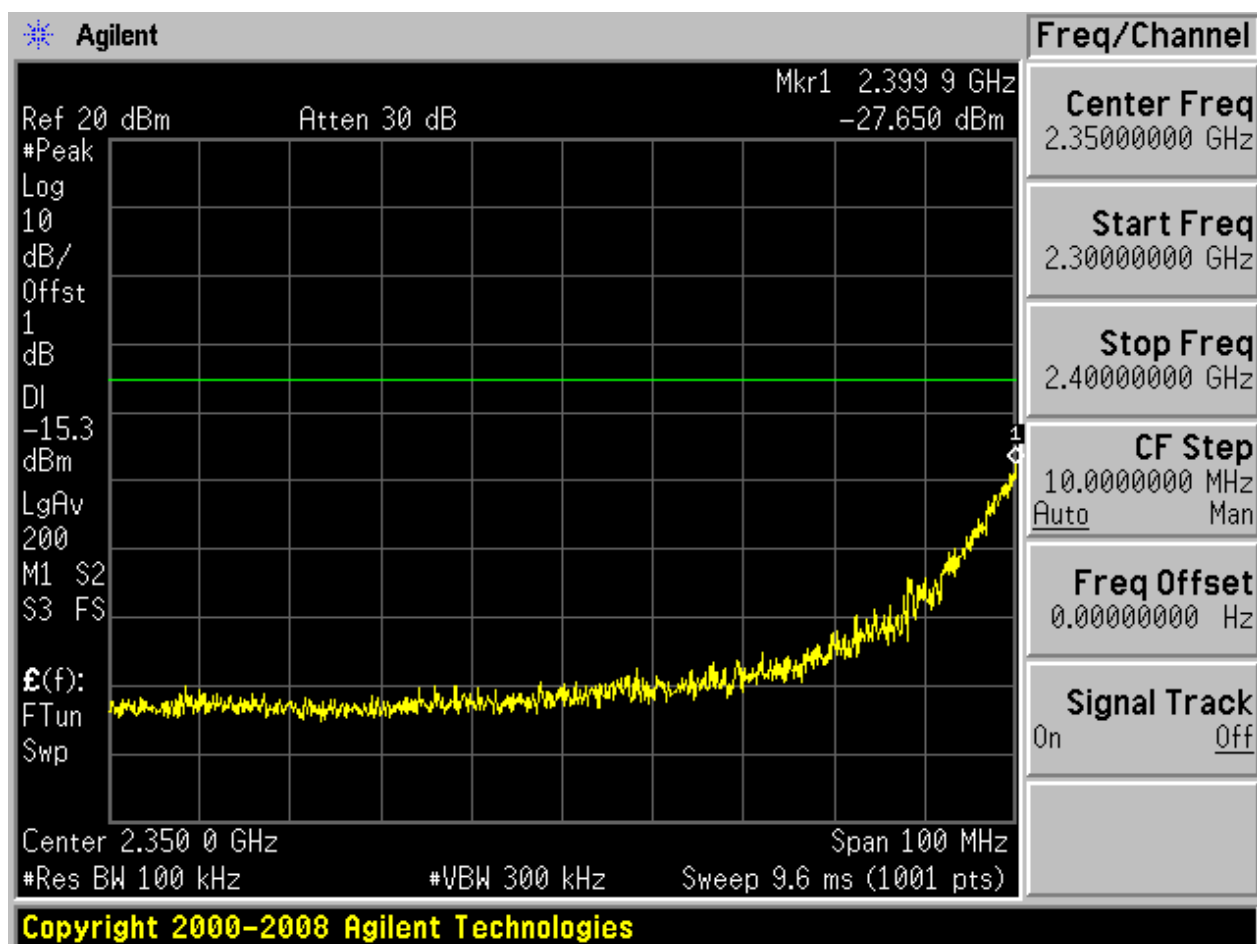


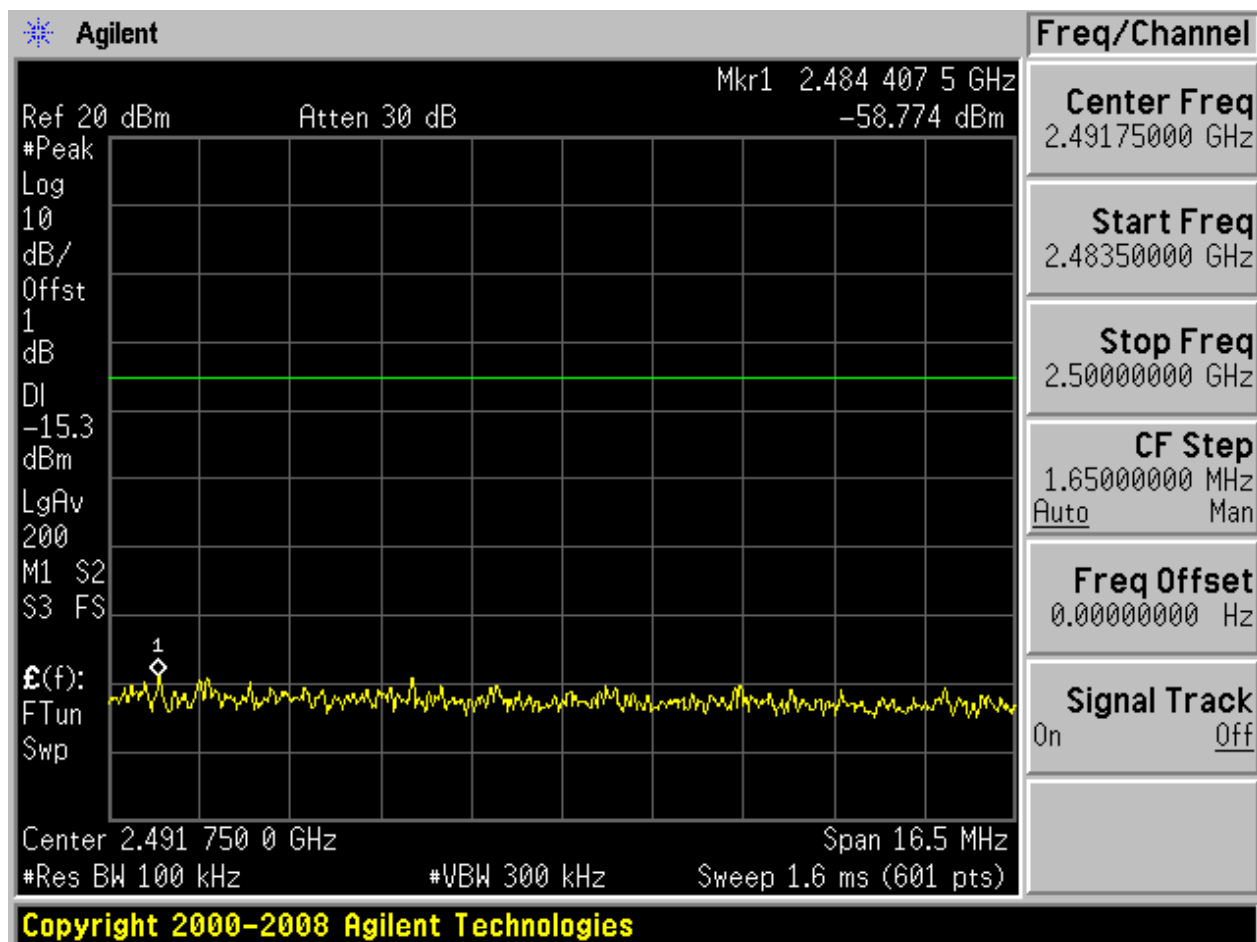
Puw:

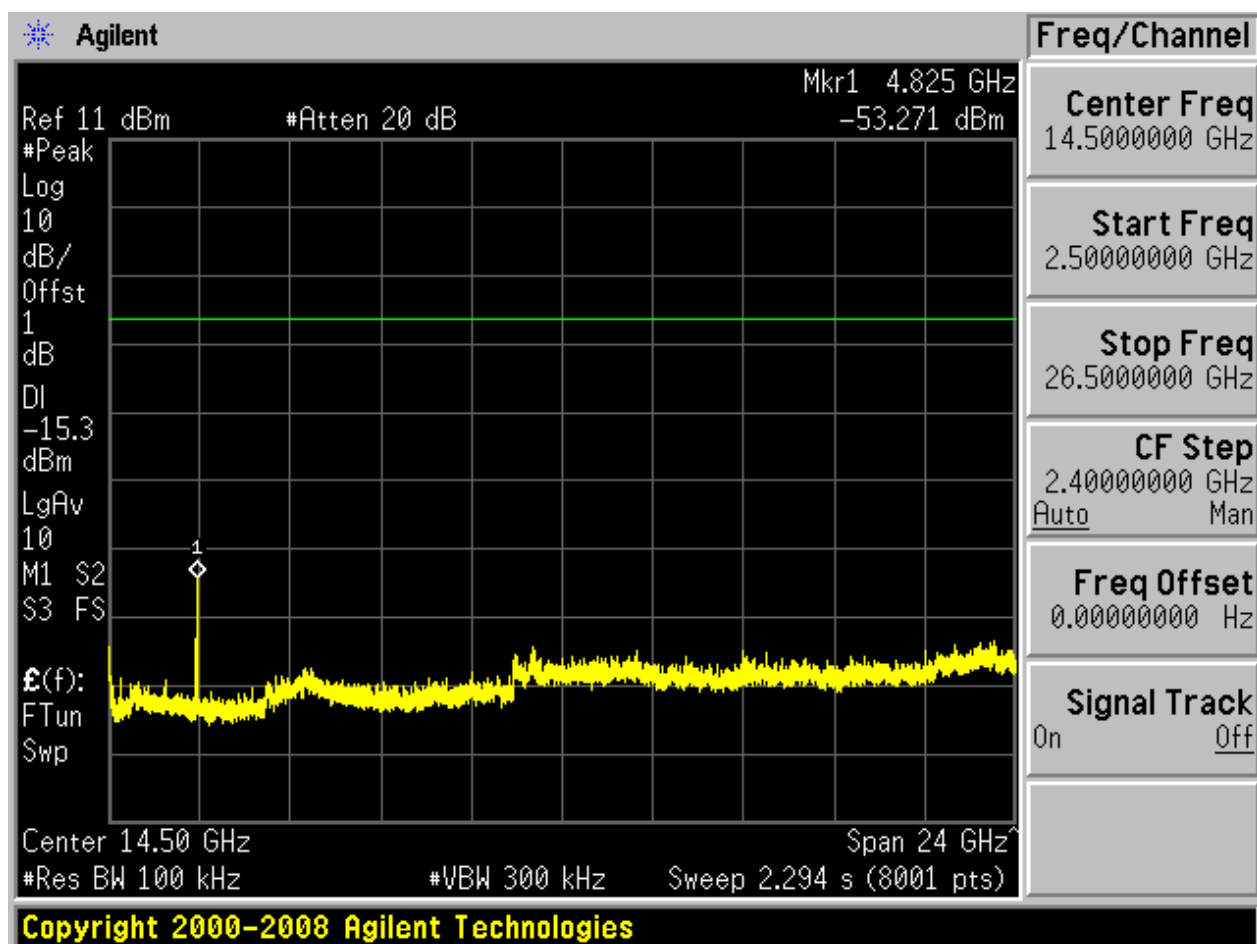








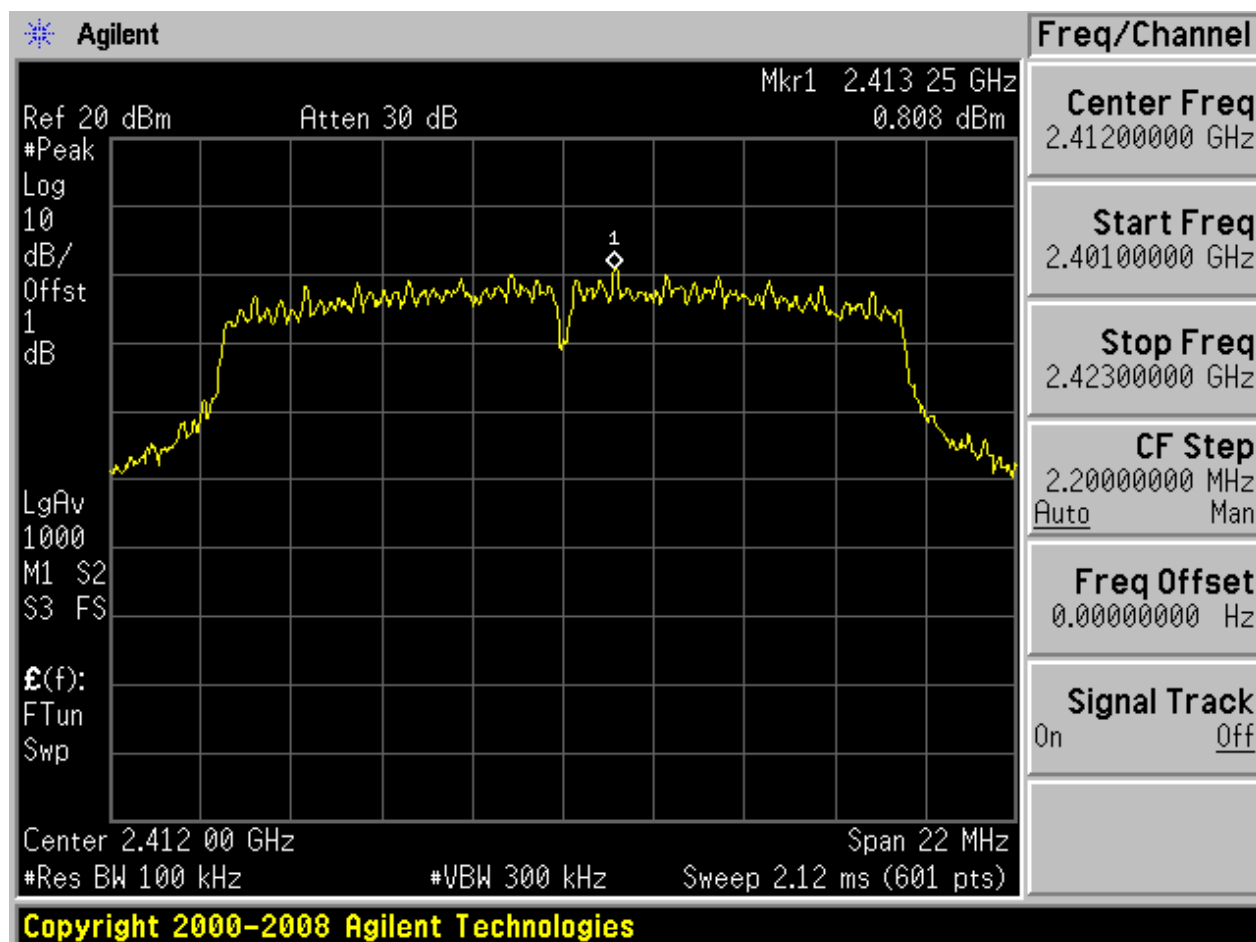






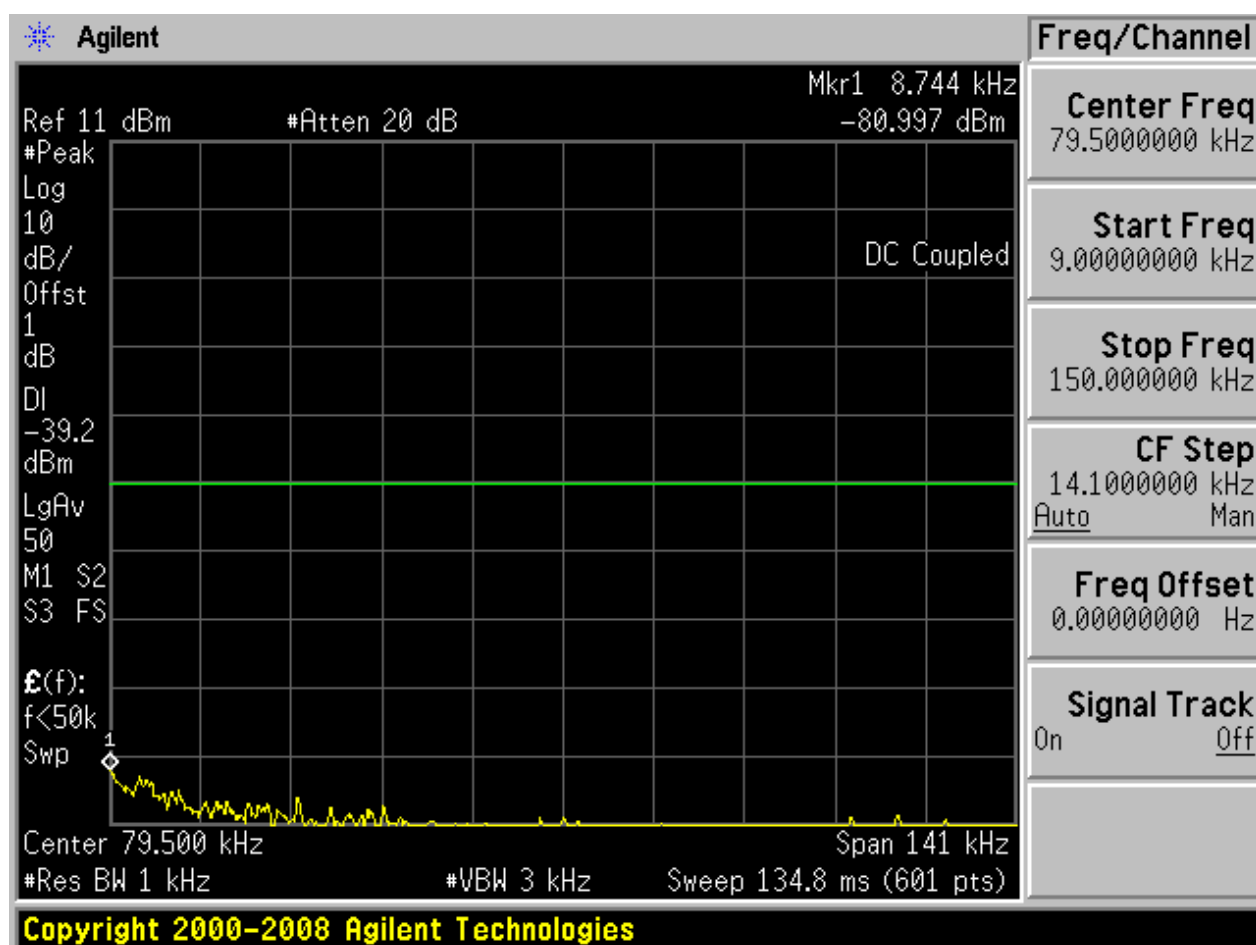
## 2.8 11G\_L@BG2

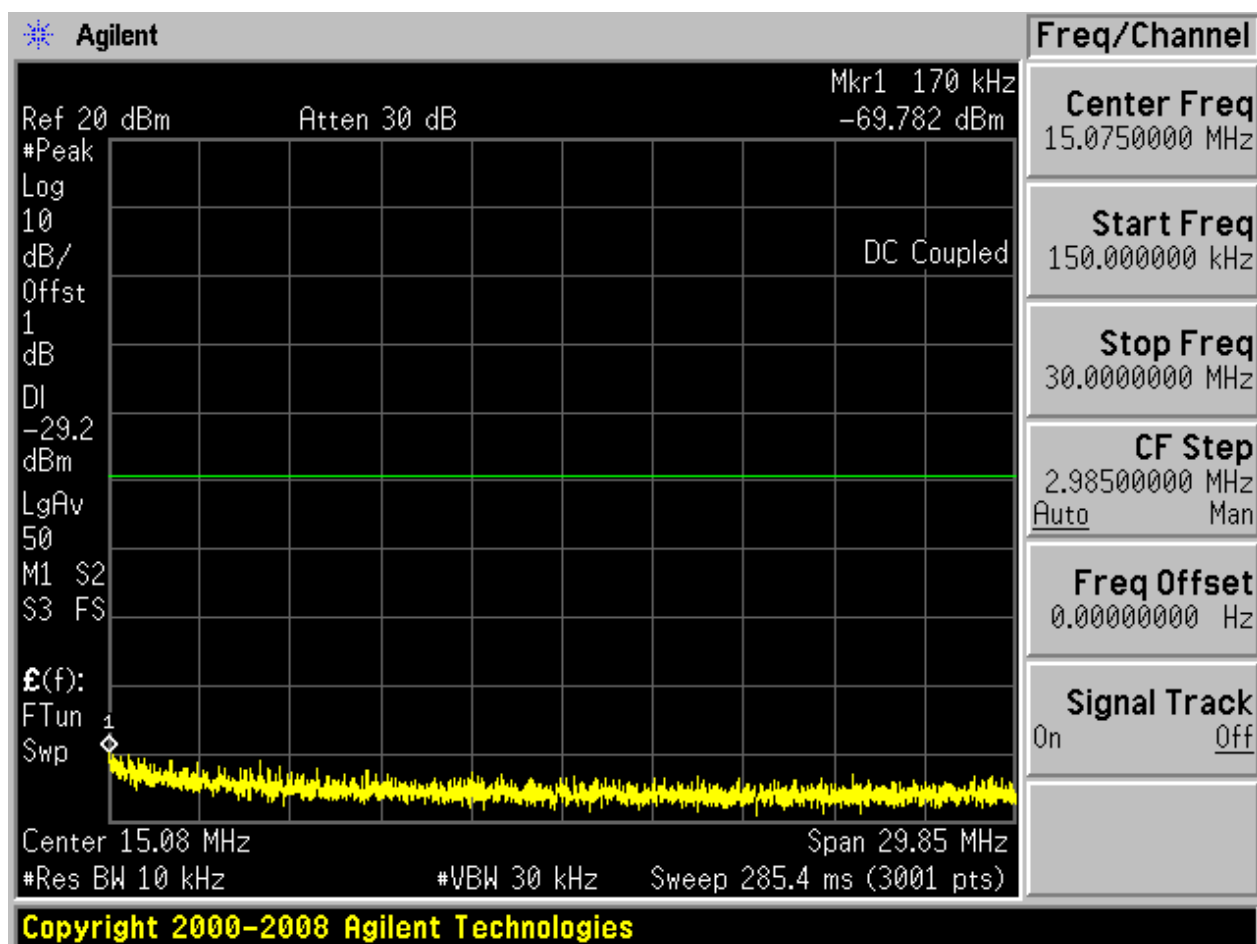
Pref:

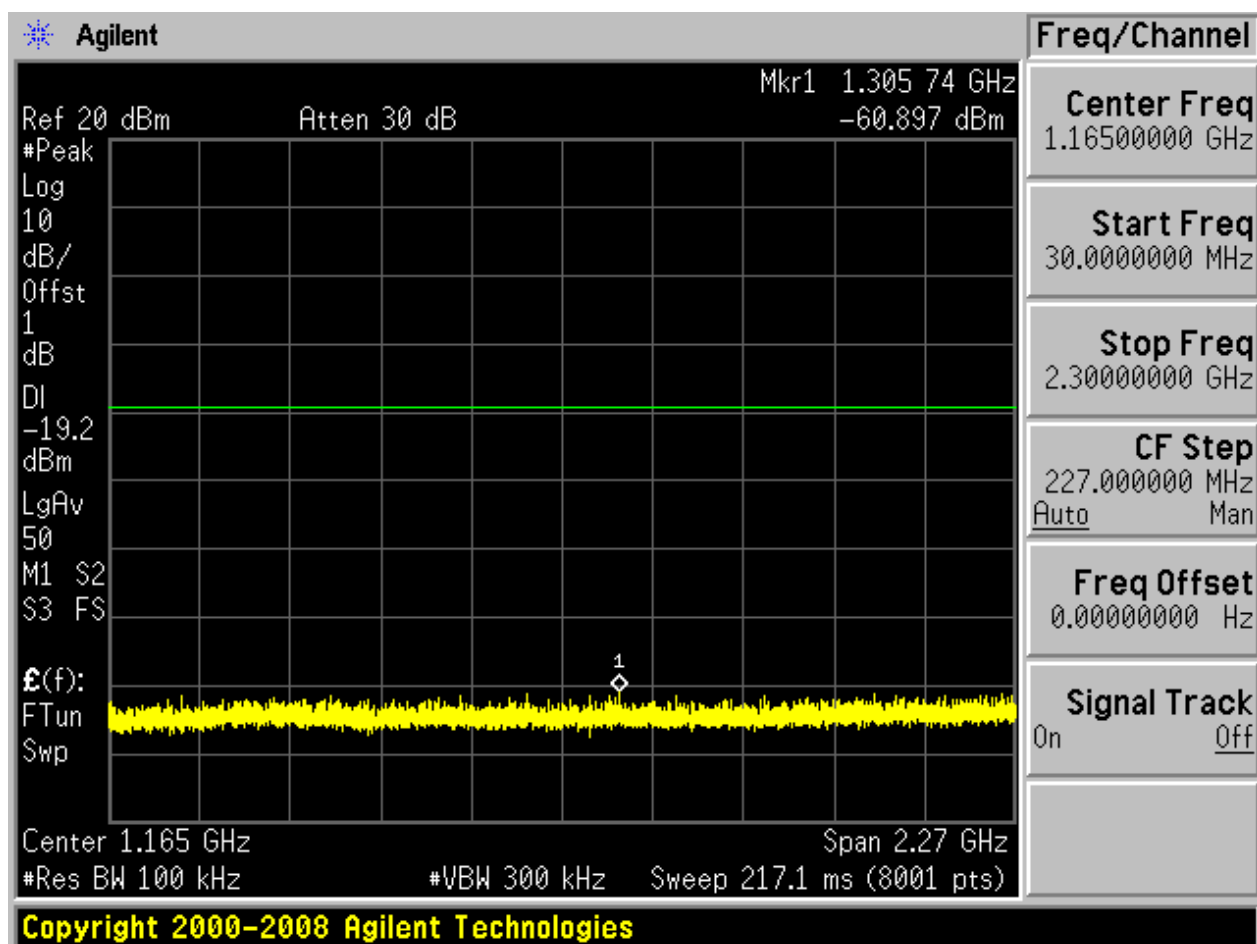


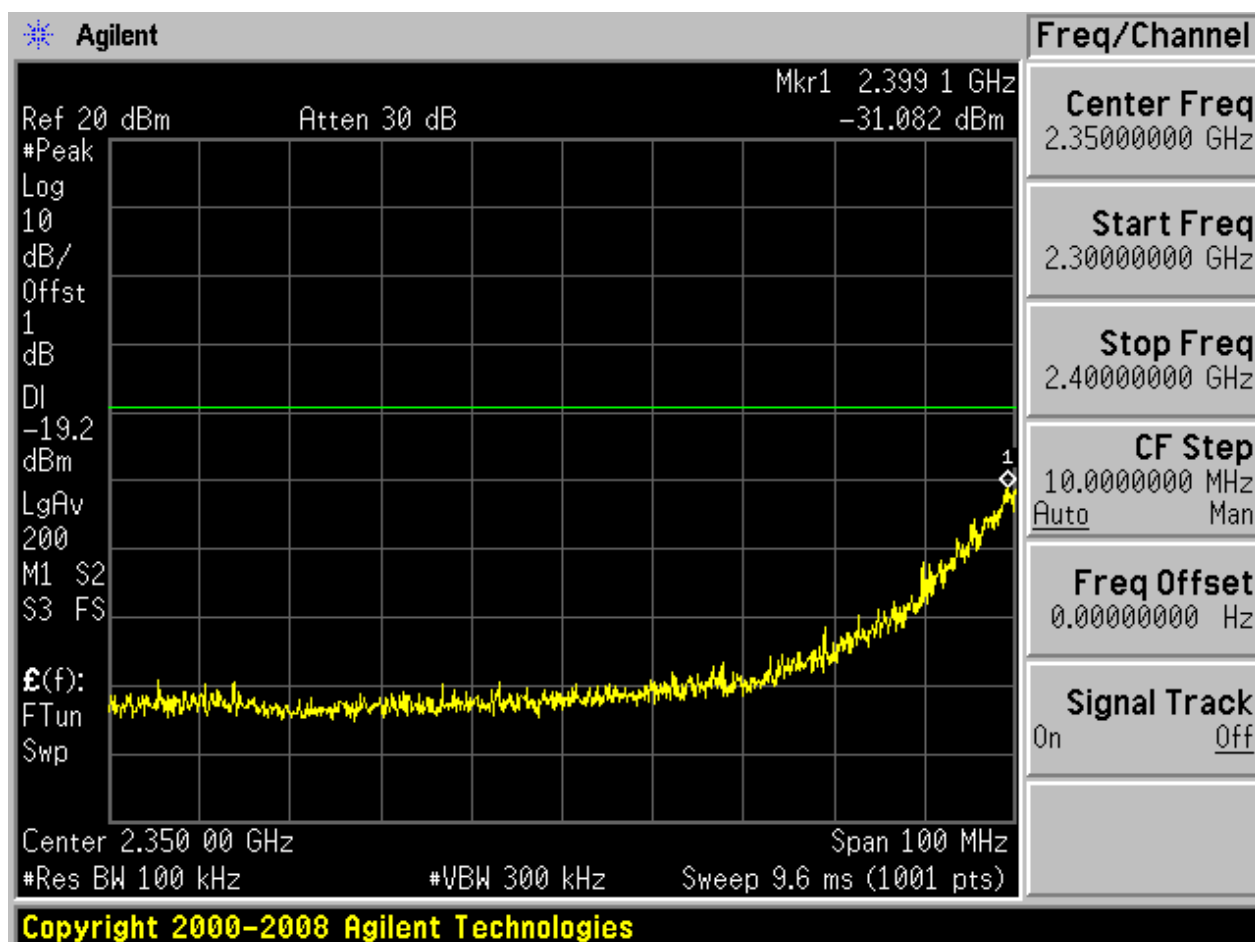


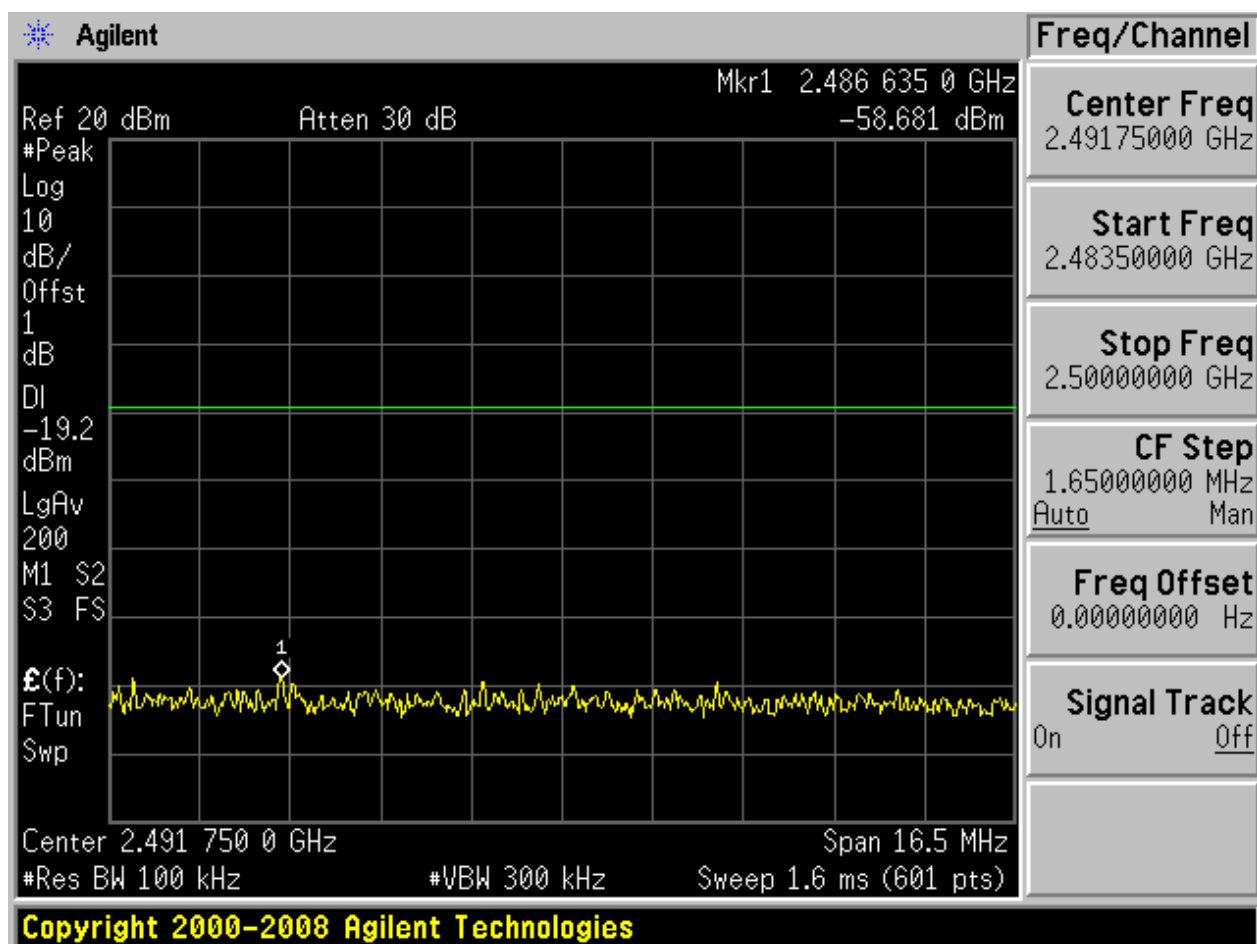
Puw:

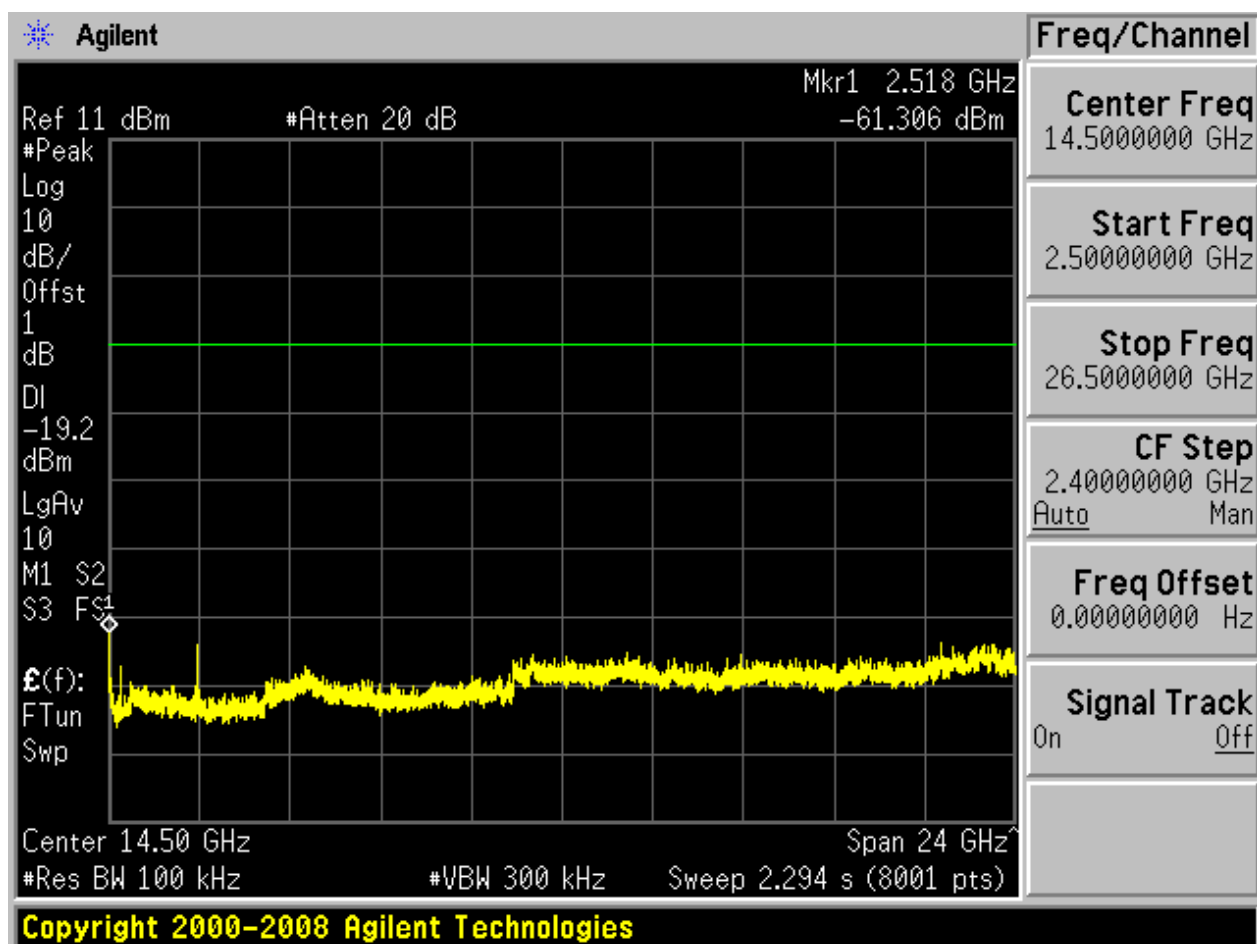








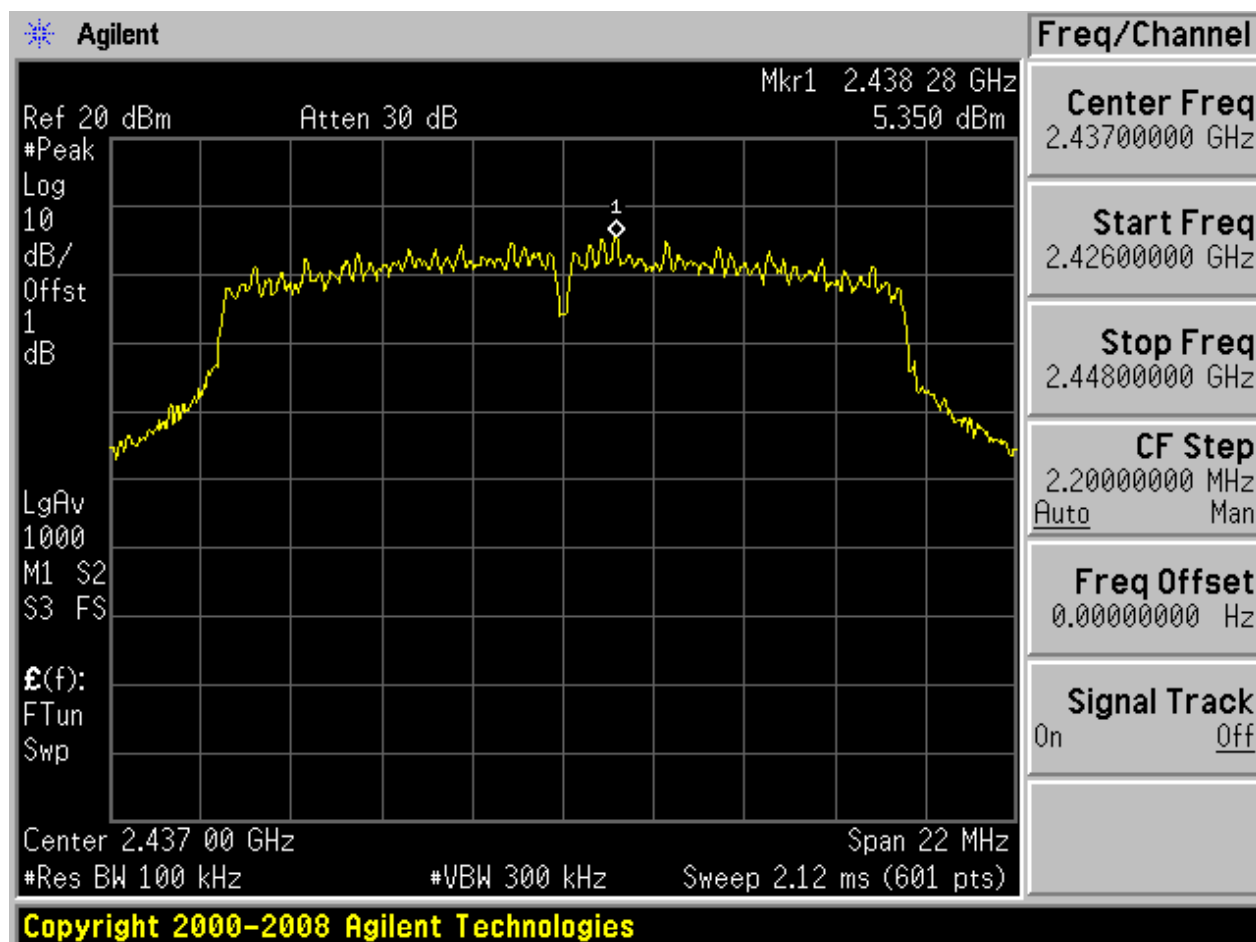






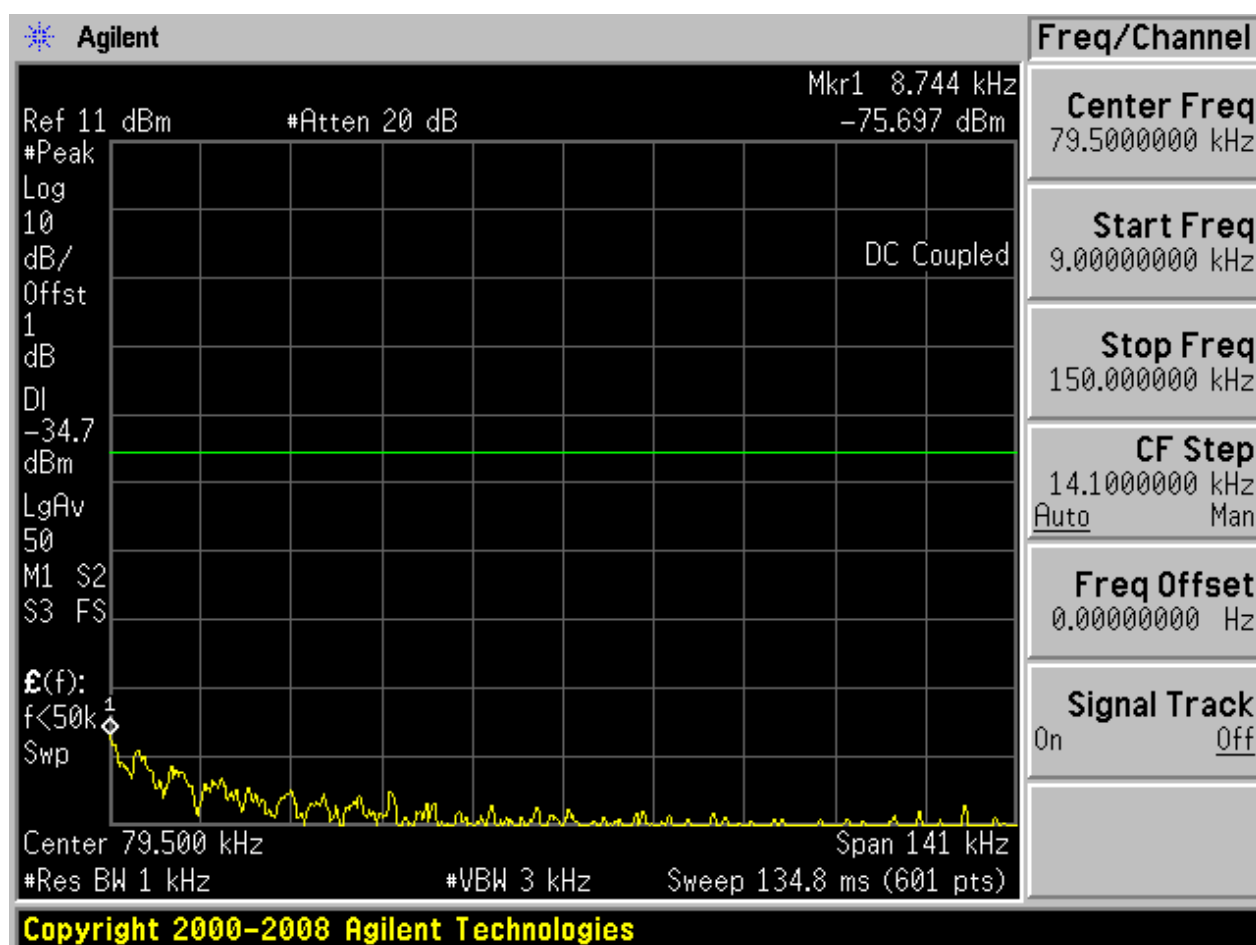
## 2.9 11G\_M@BG1

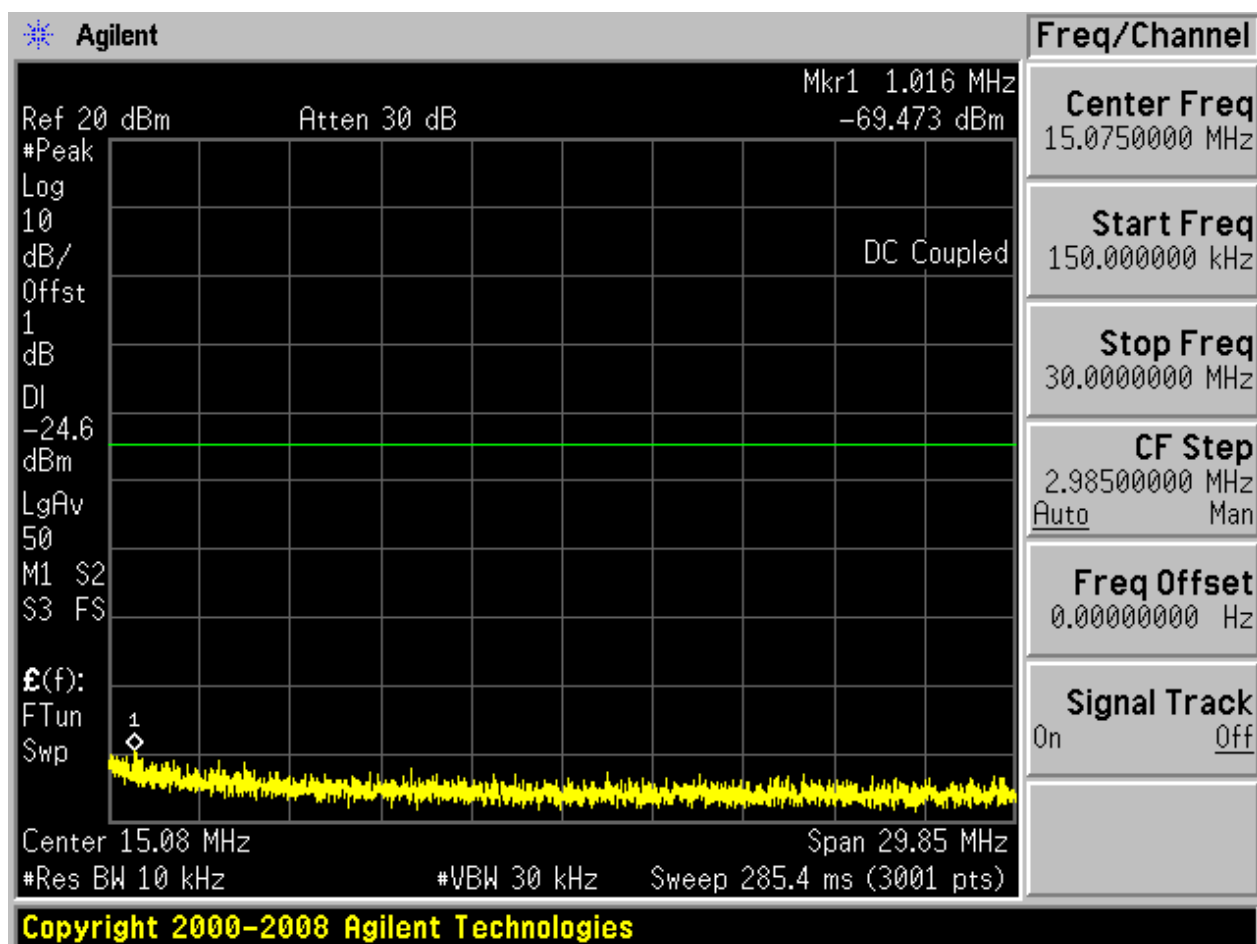
Pref:

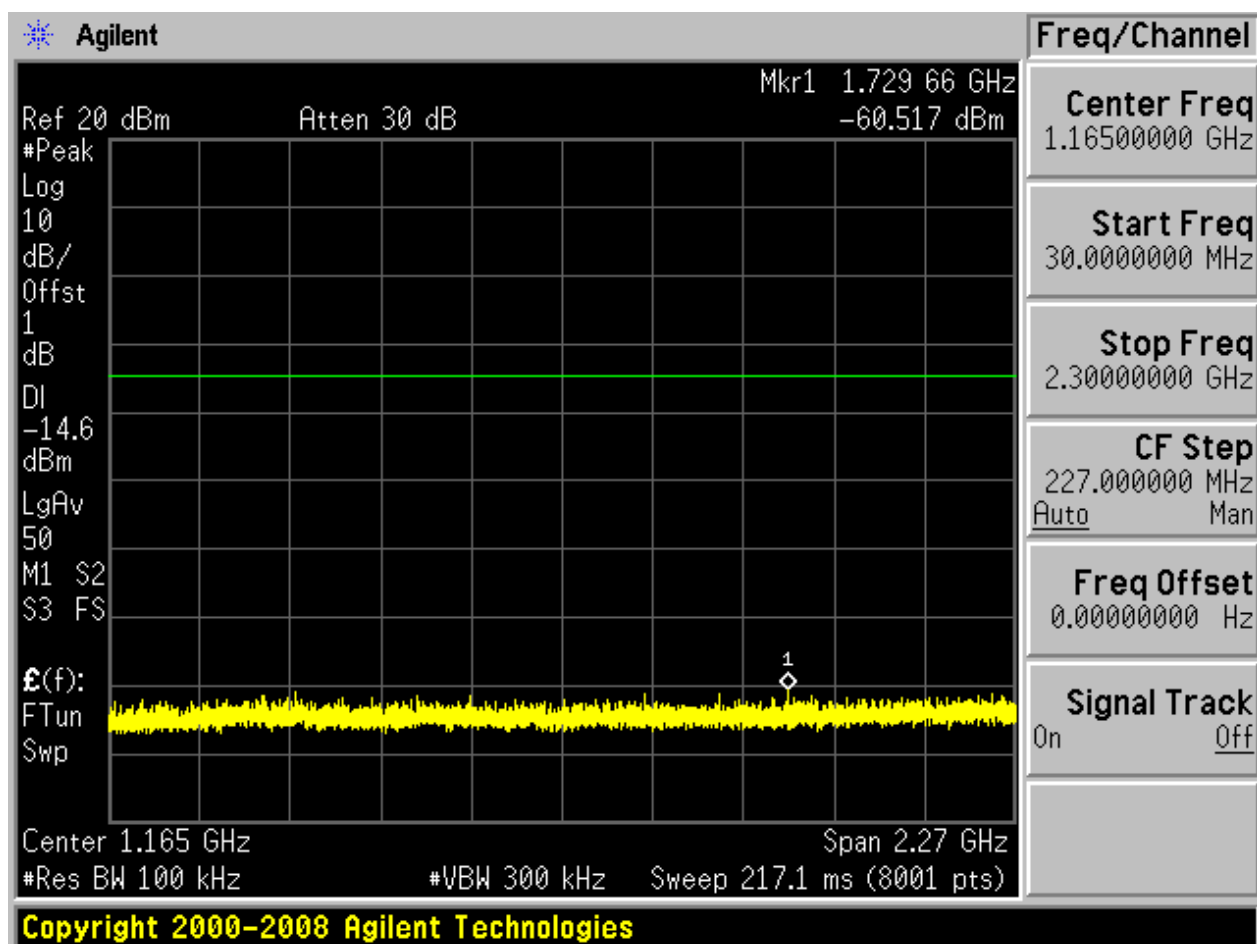


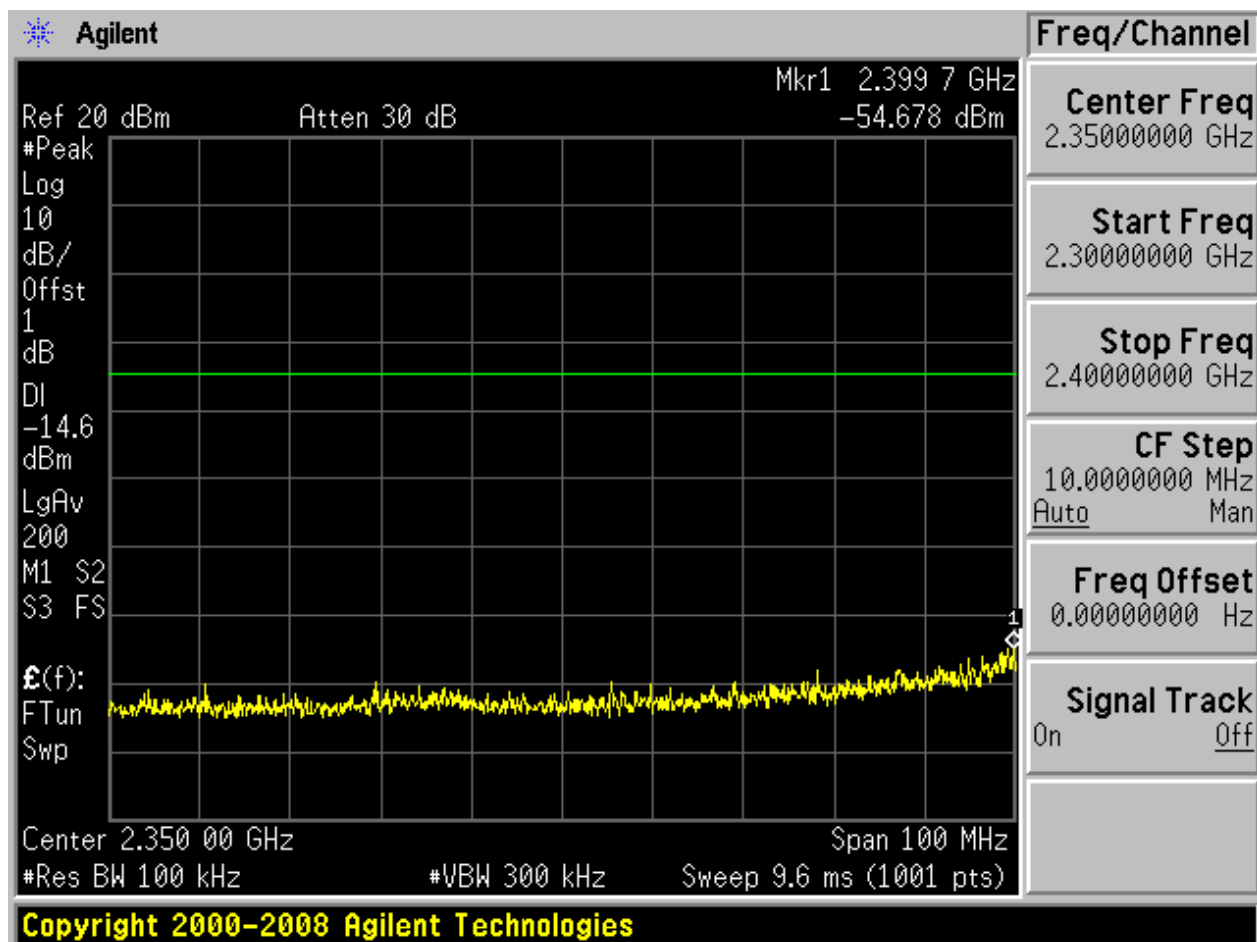


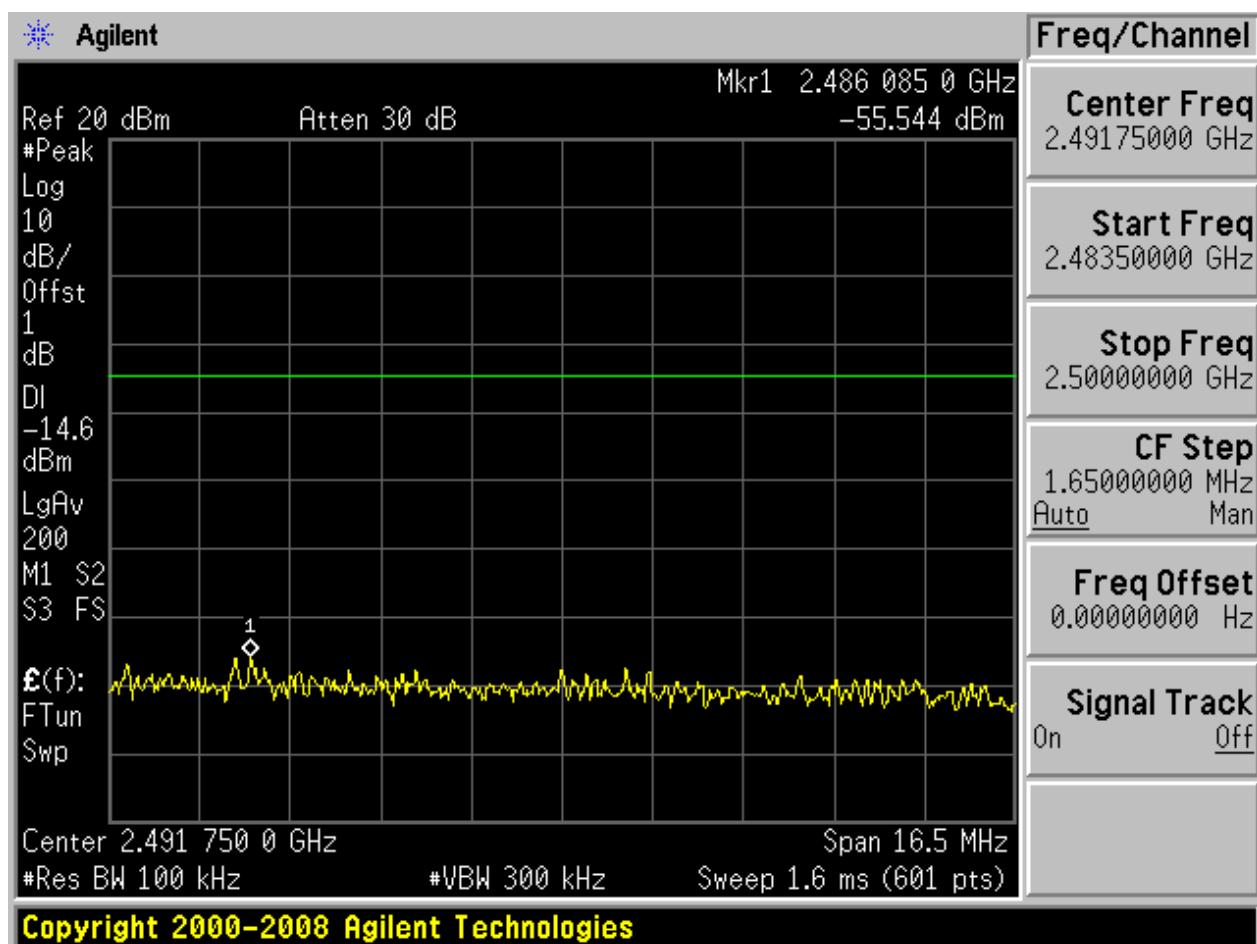
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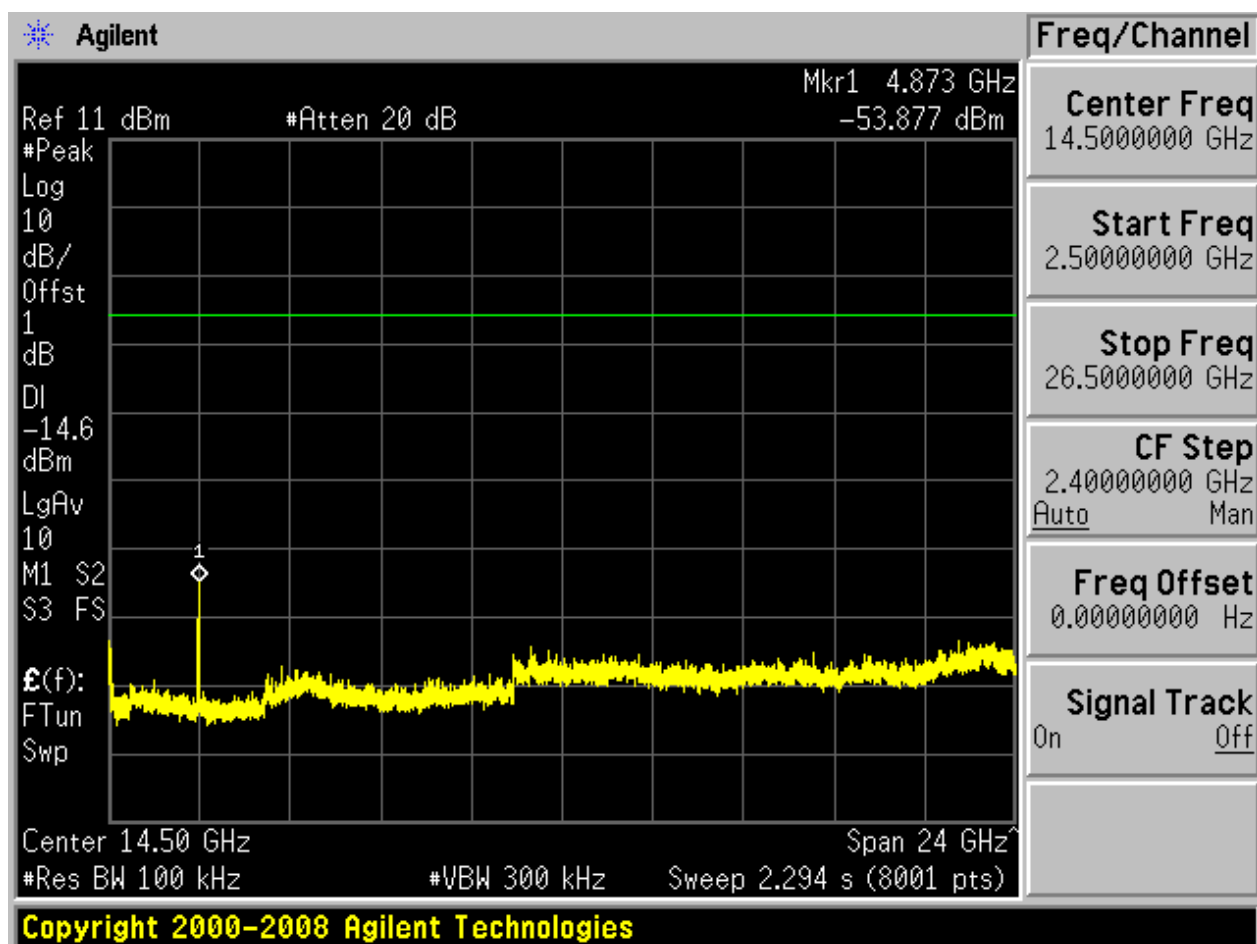








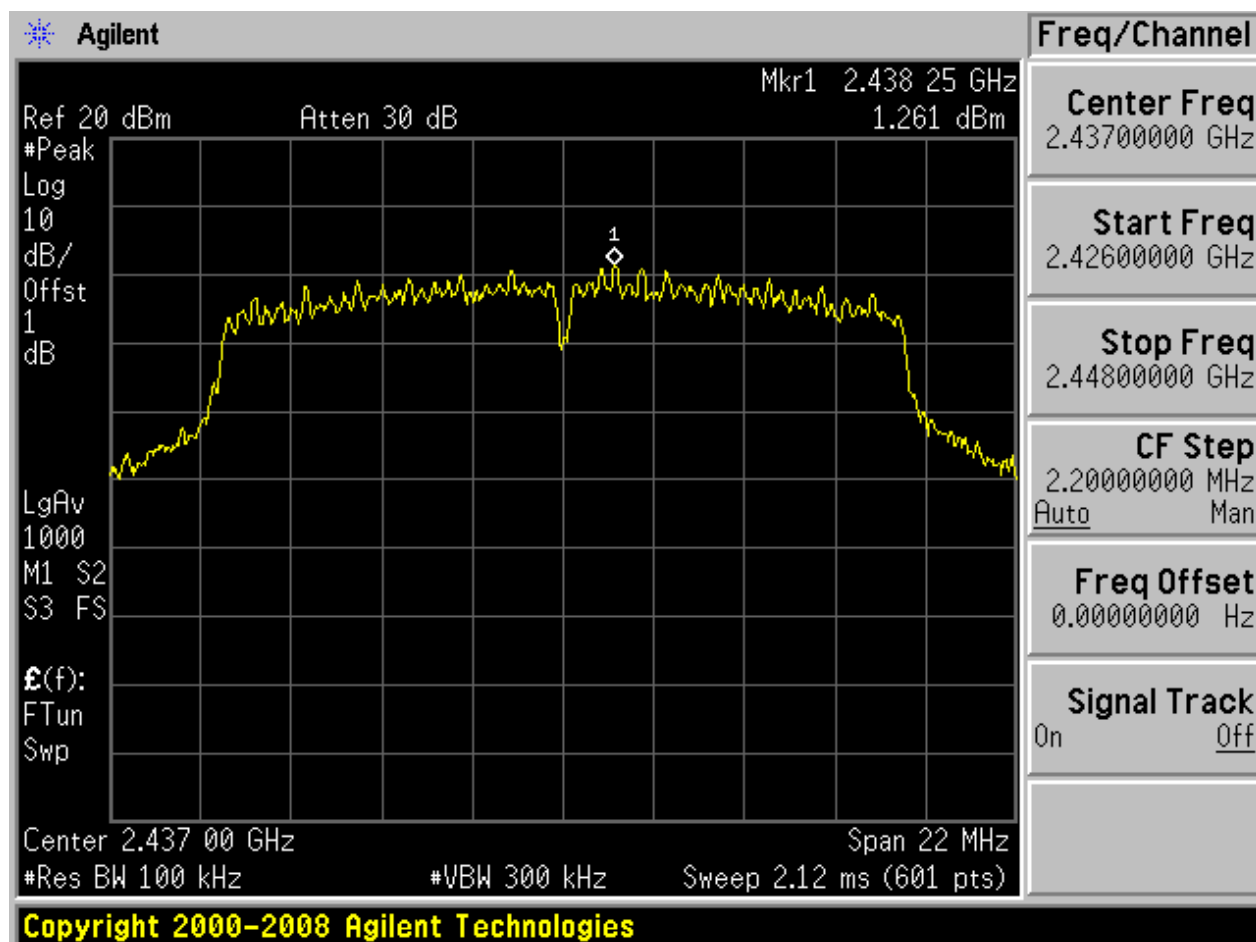






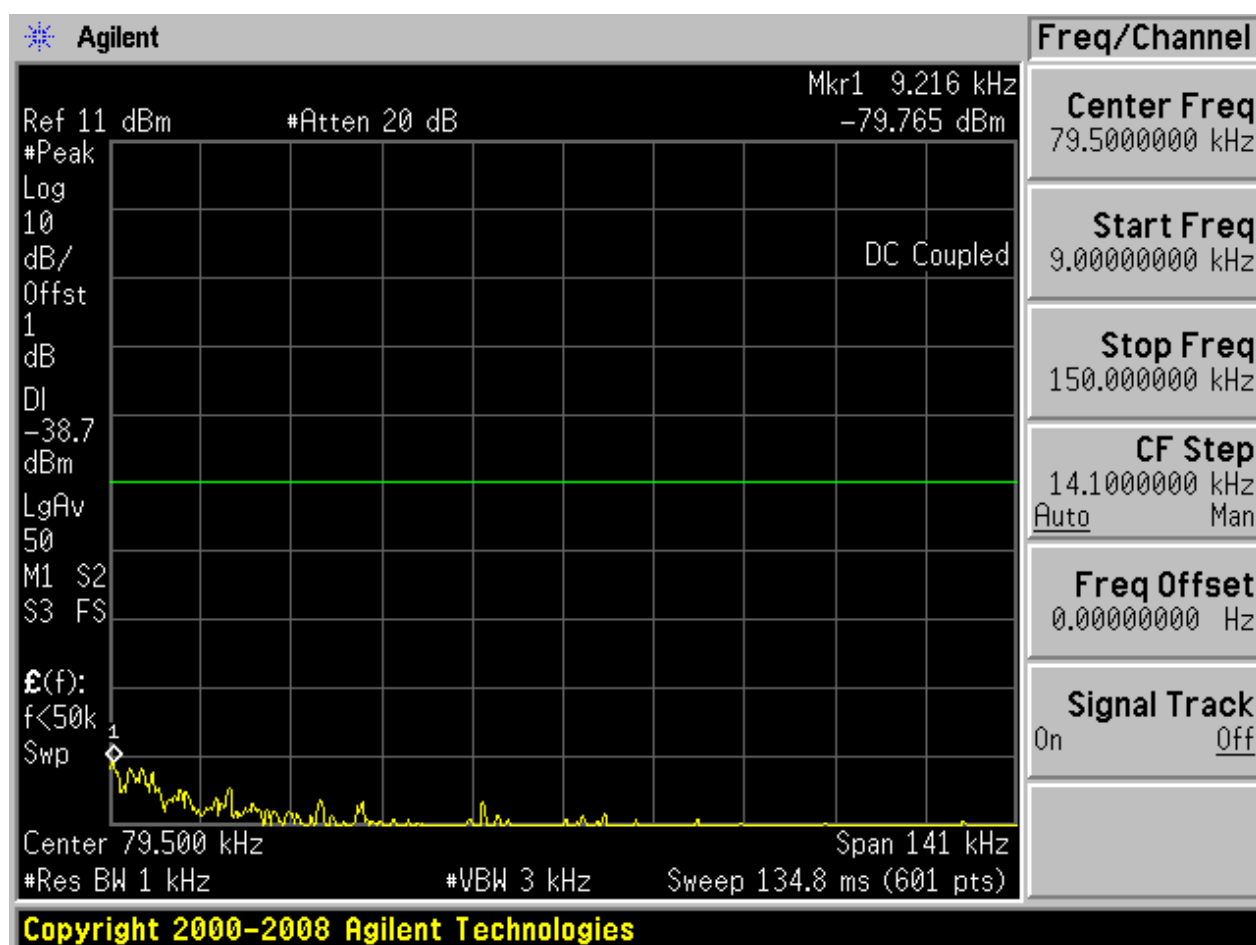
## 2.10 11G\_M@BG2

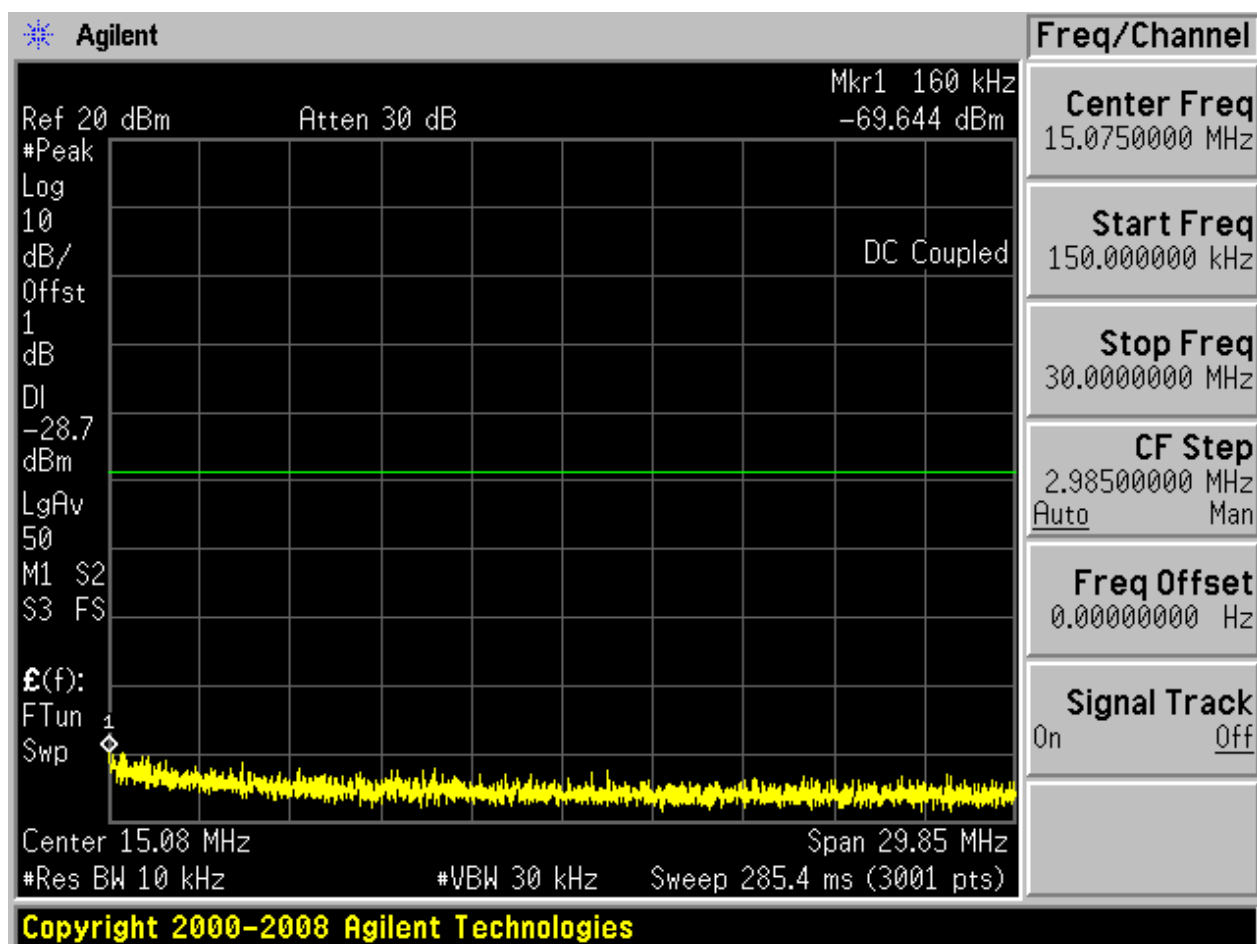
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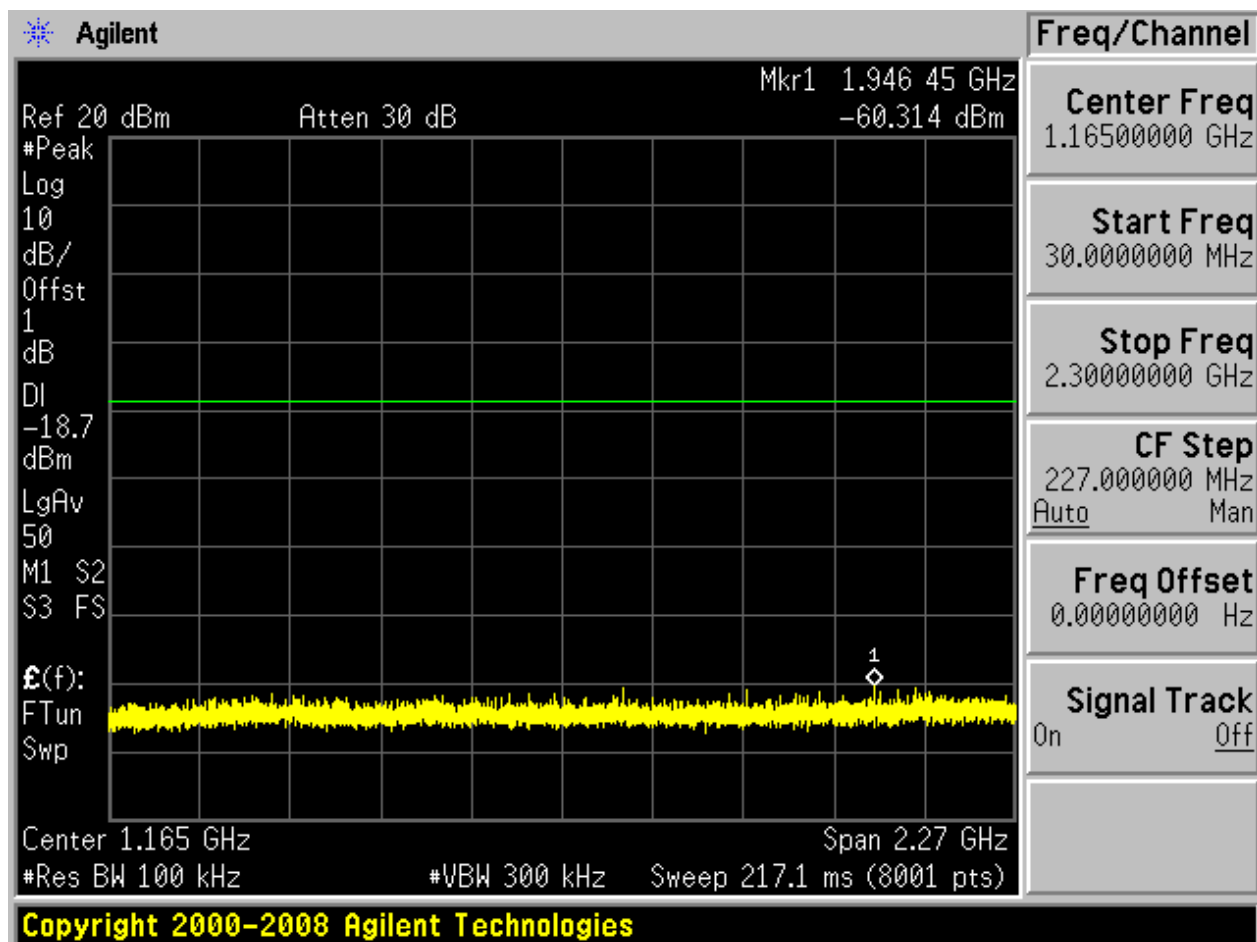


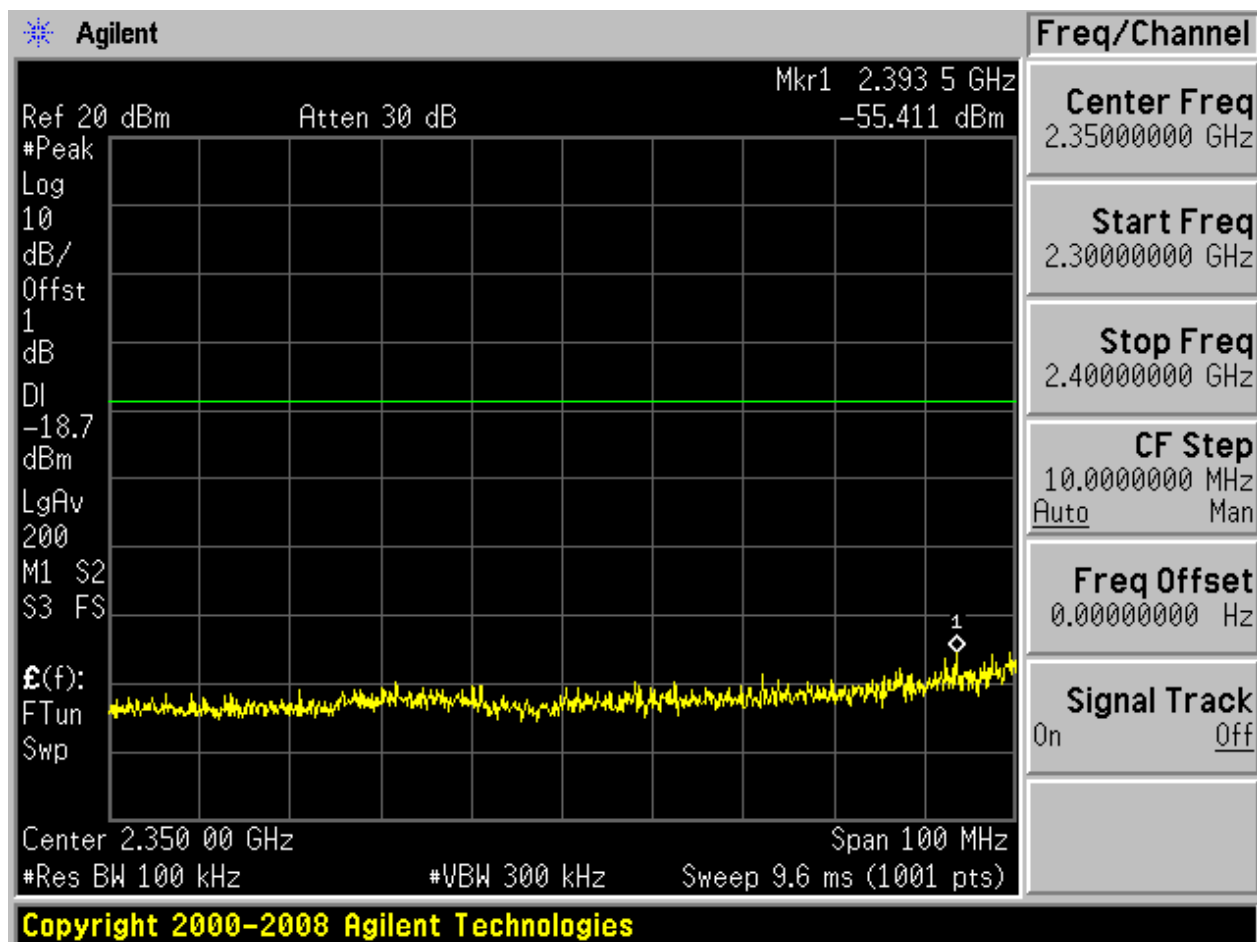


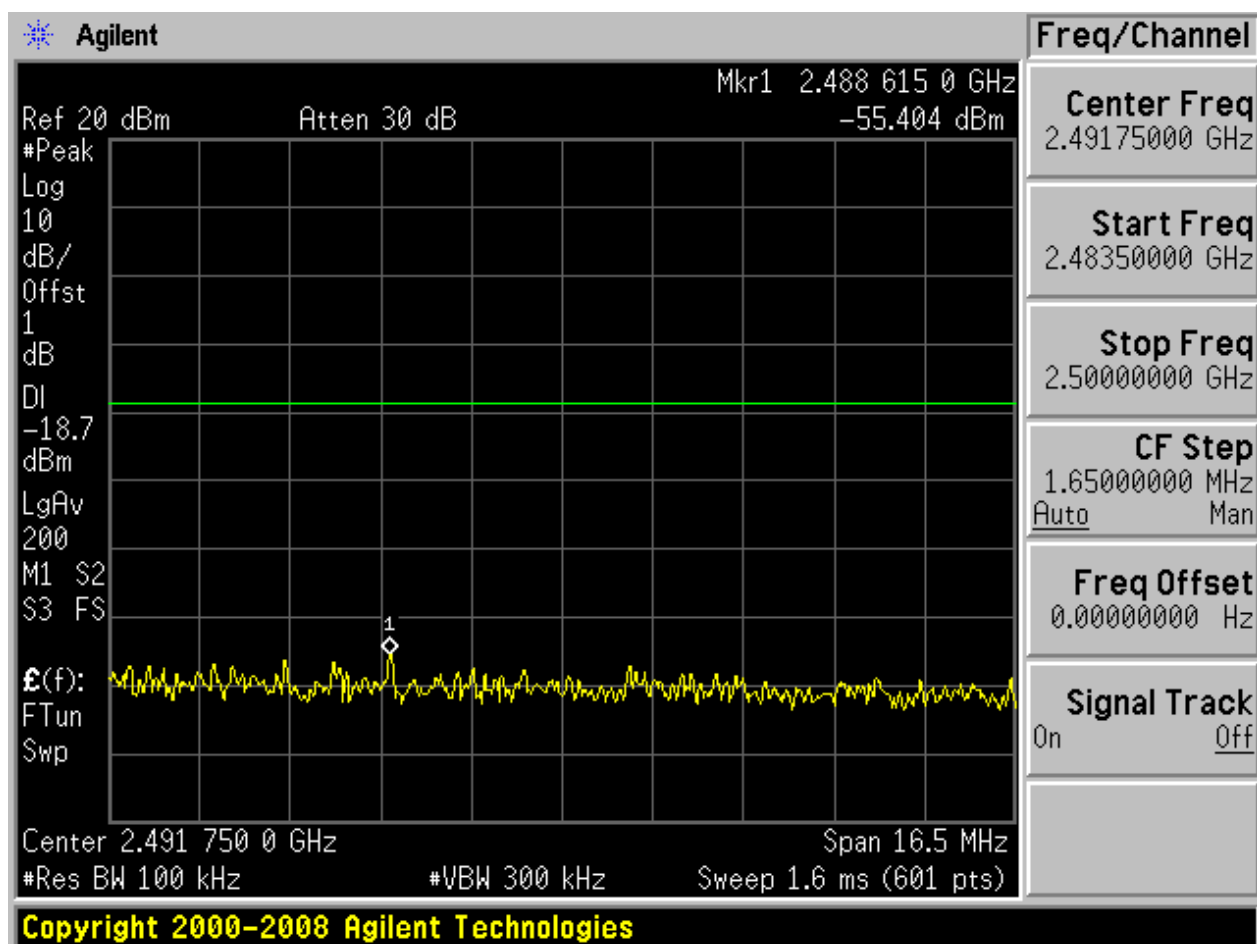
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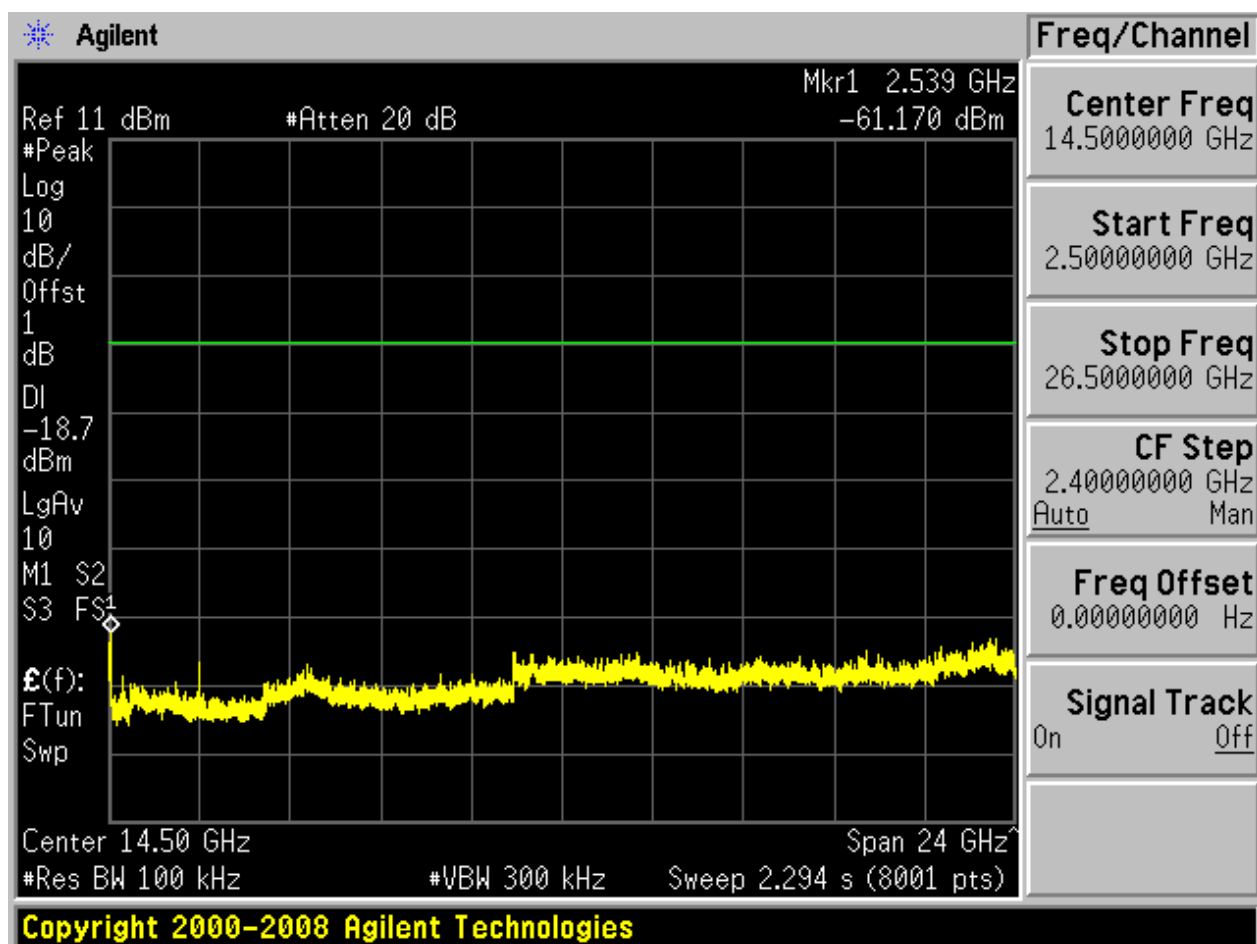








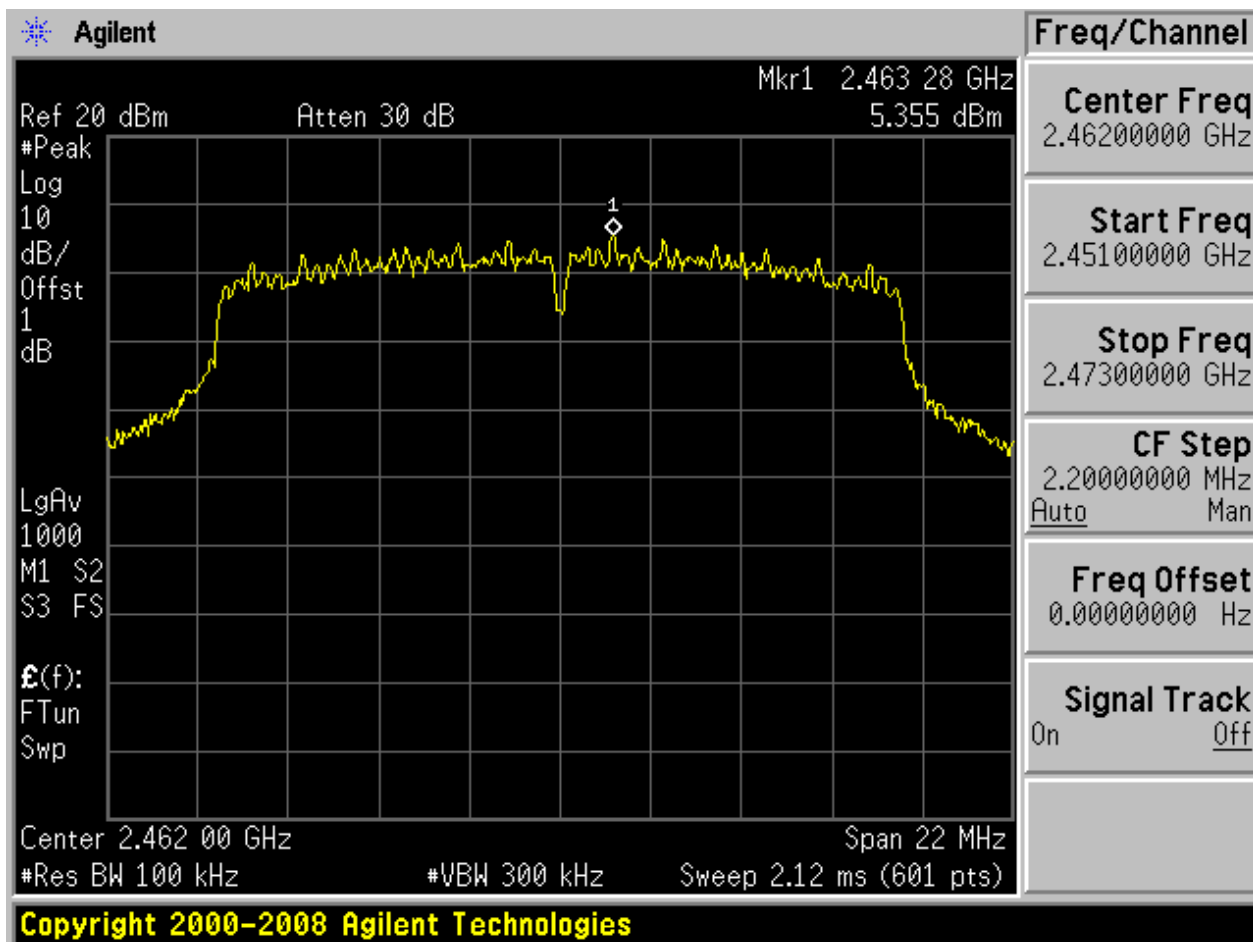






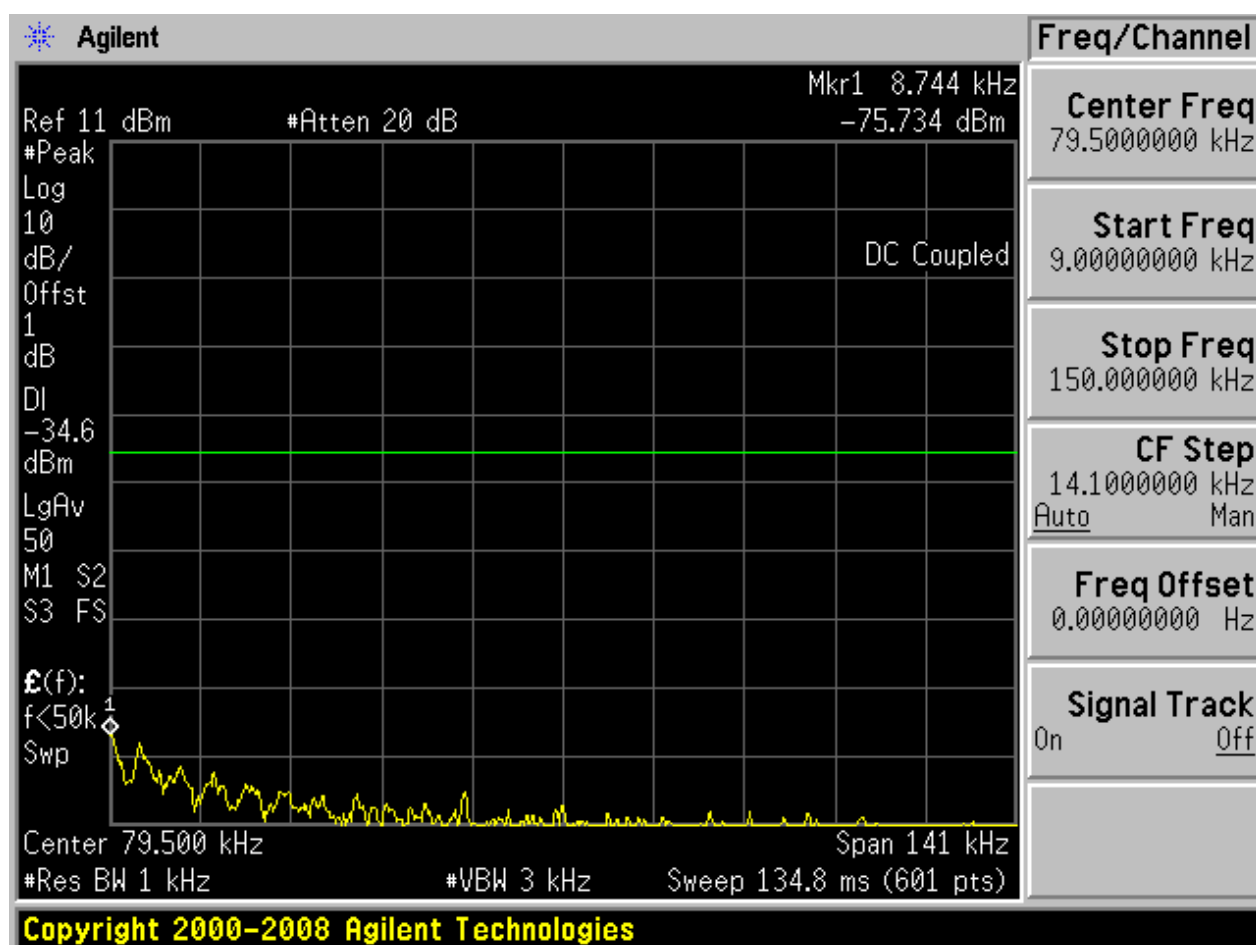
## 2.11 11G\_H@BG1

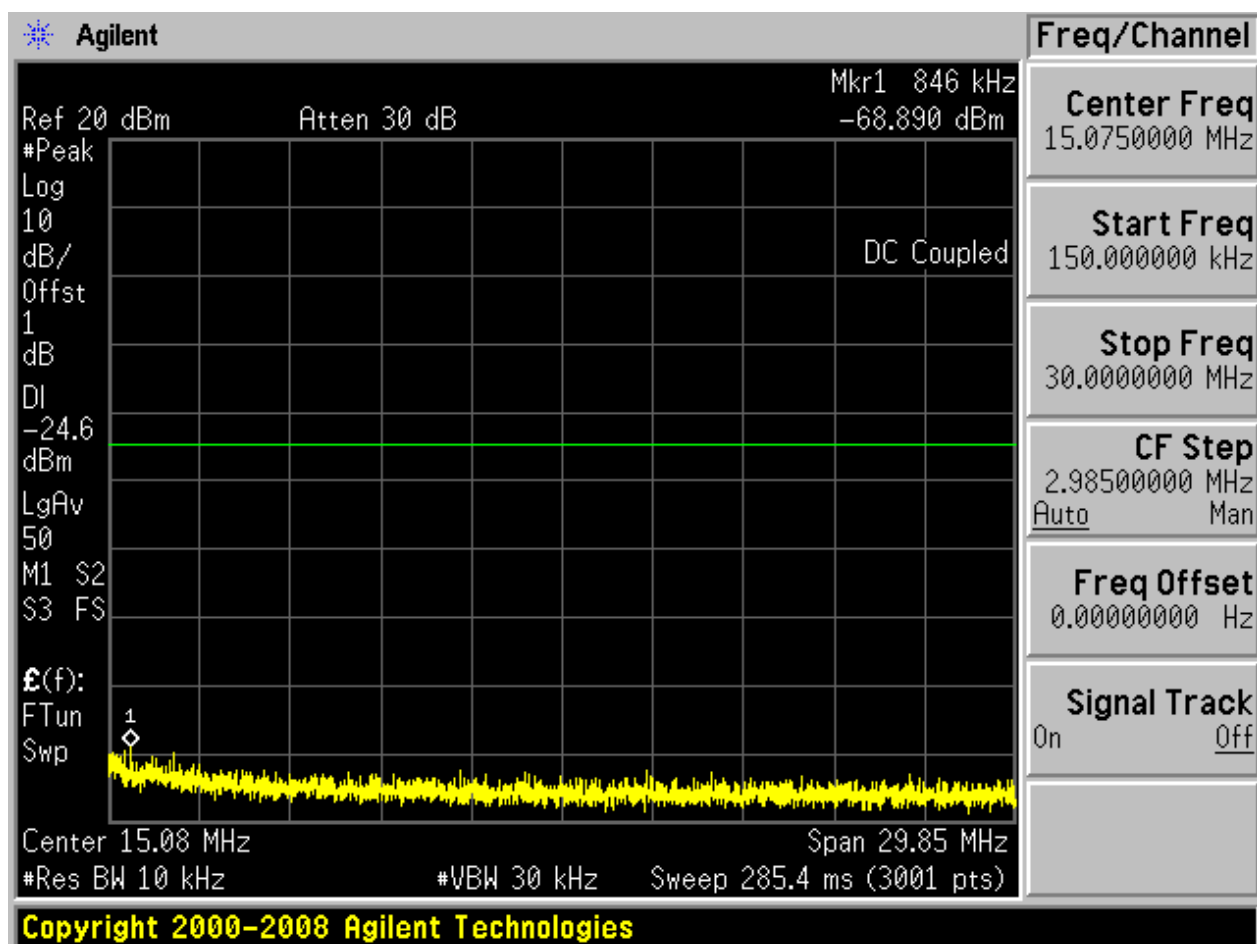
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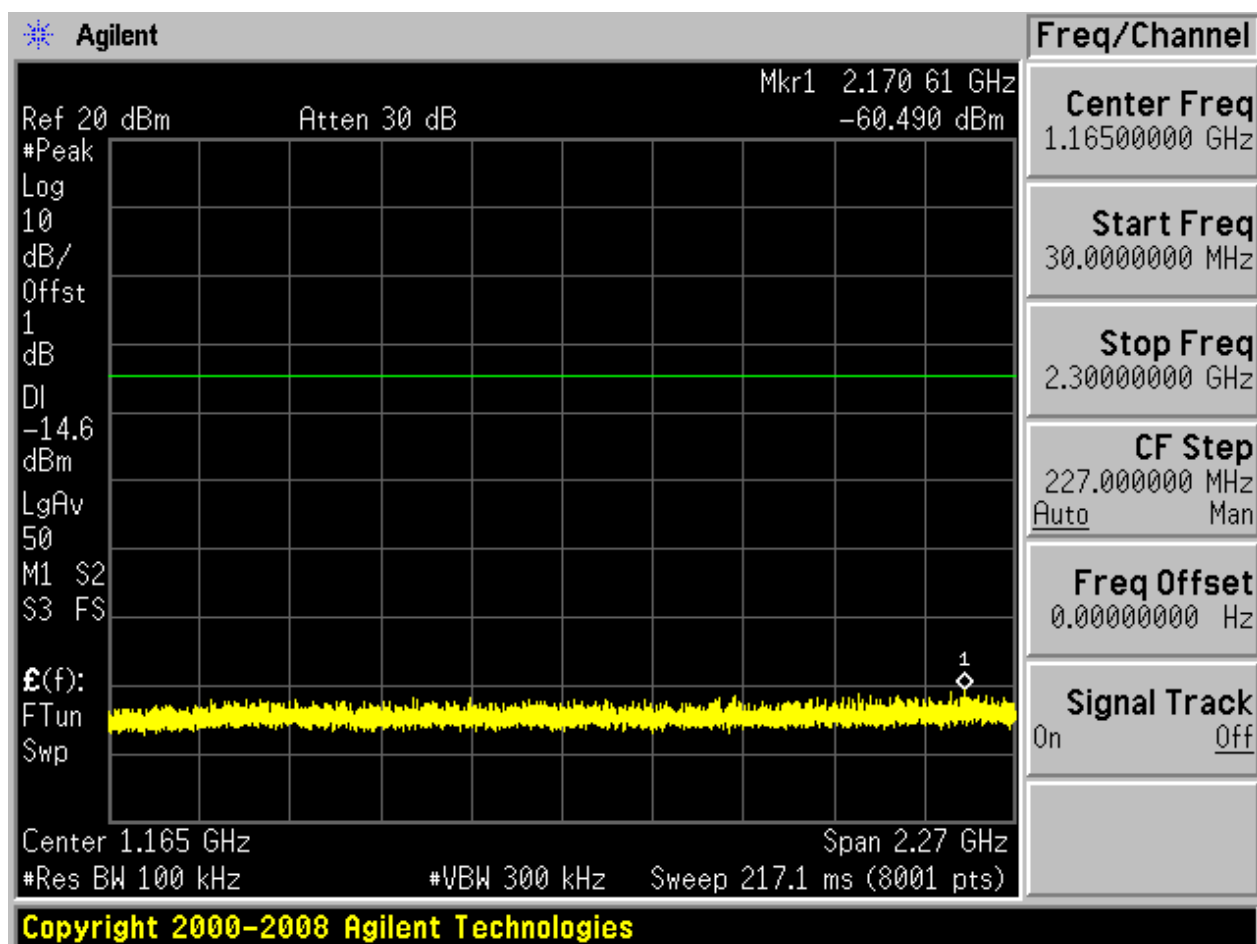


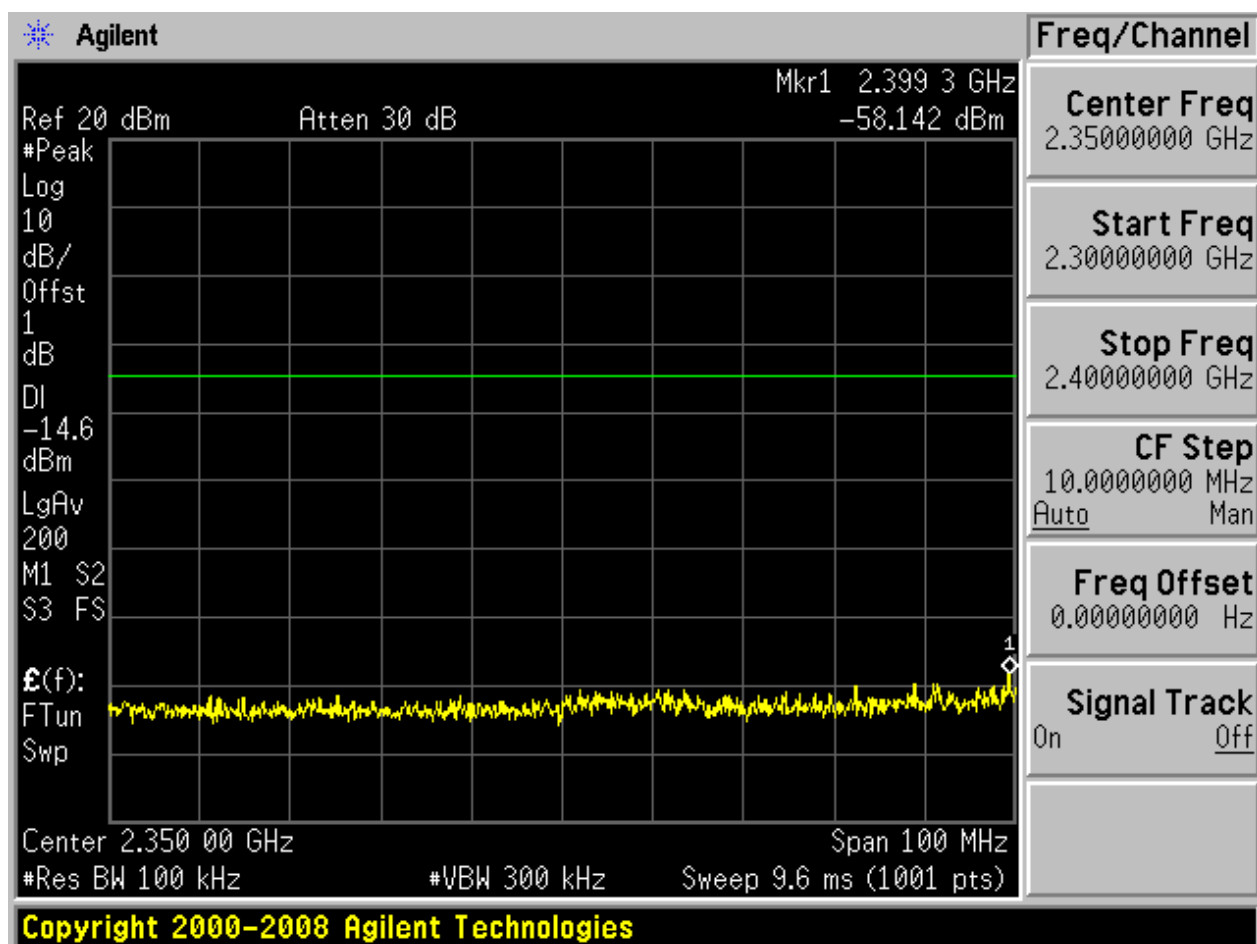


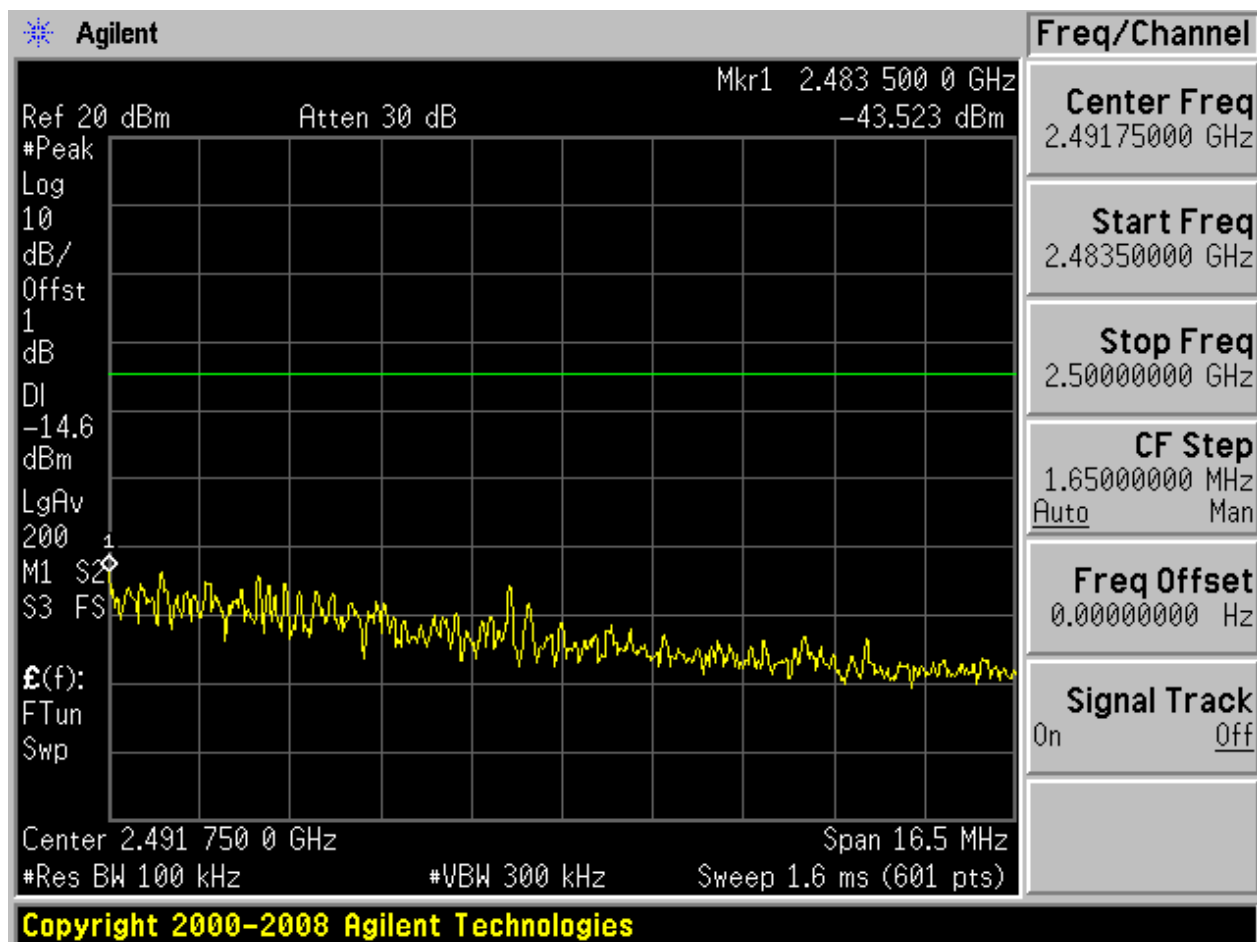
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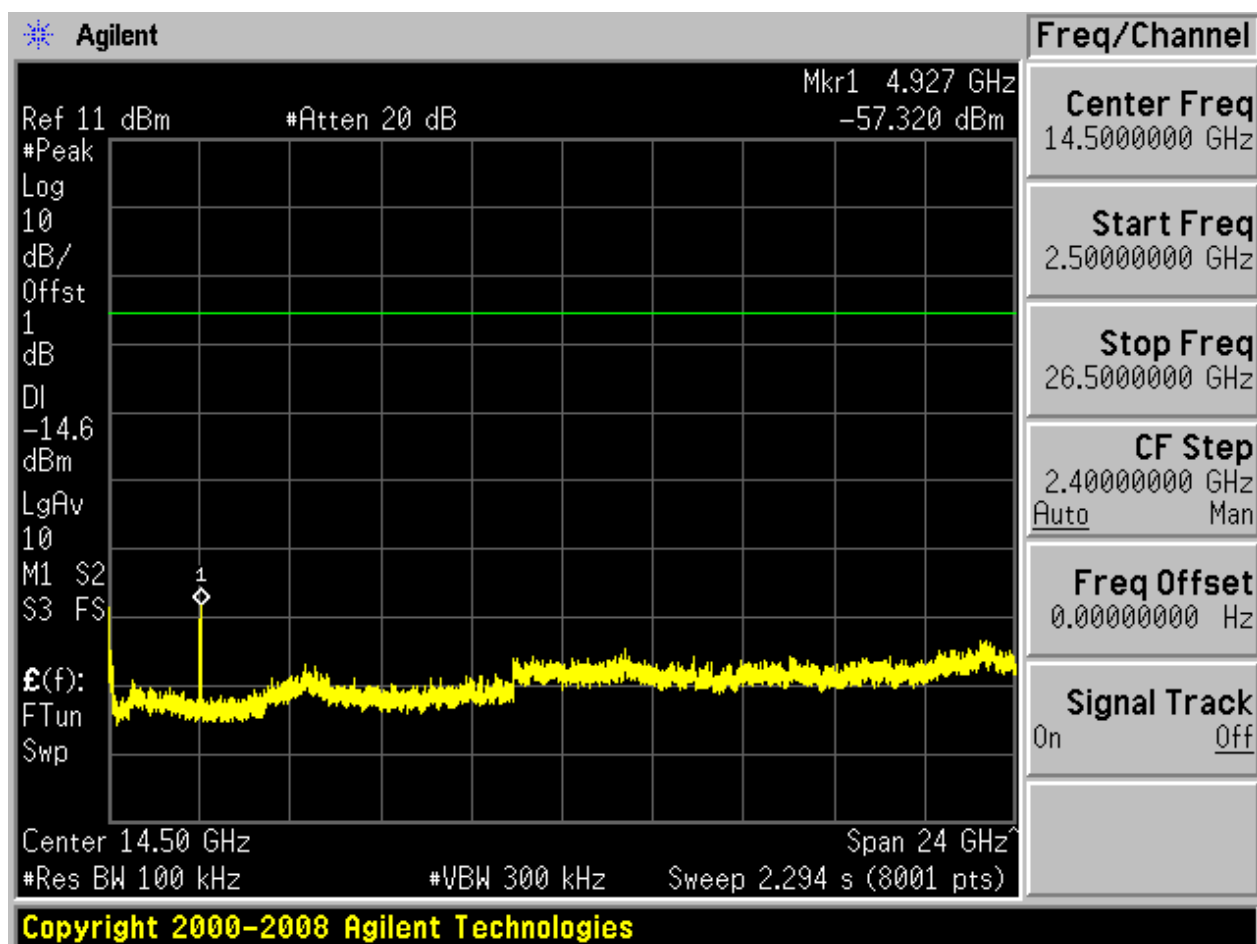








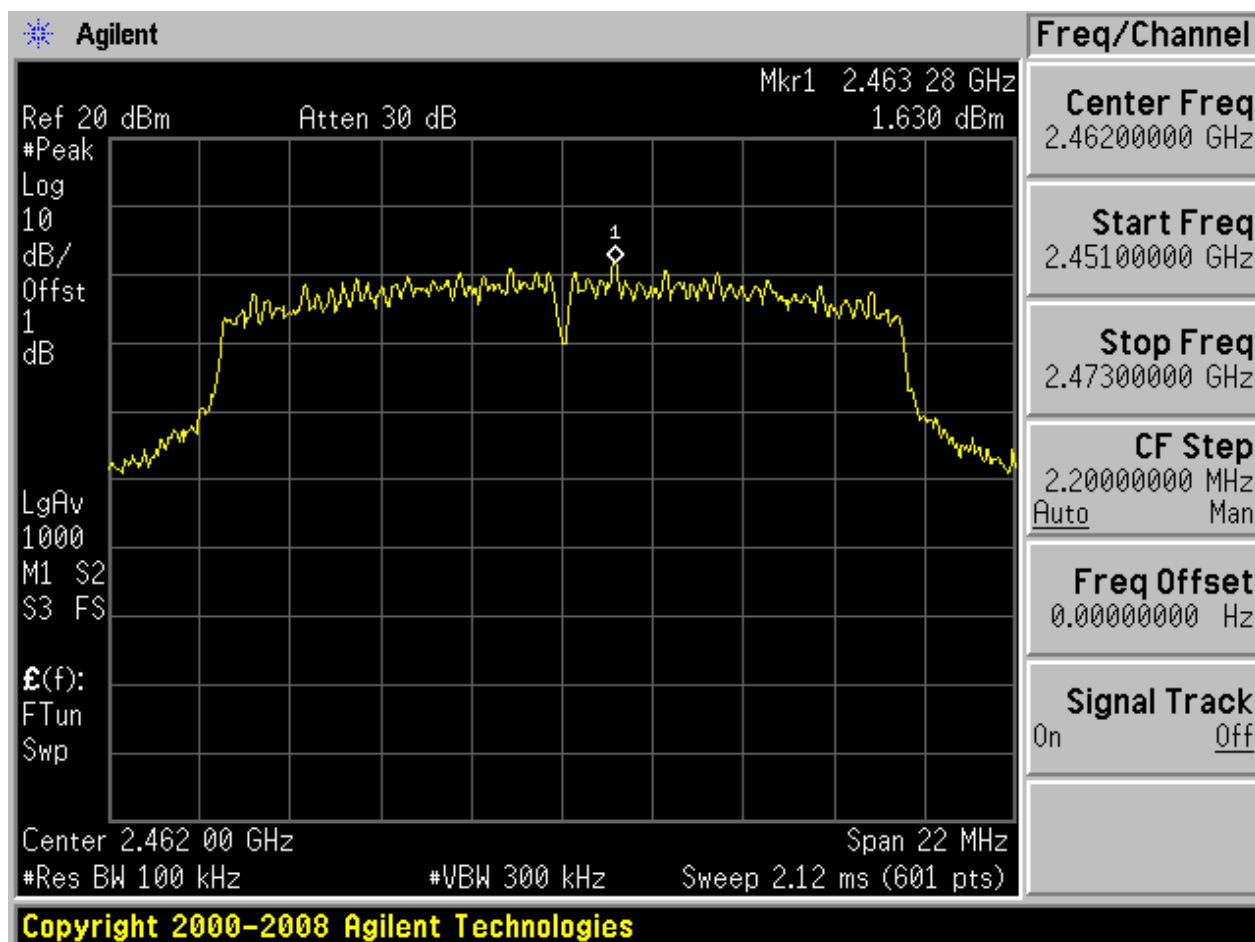






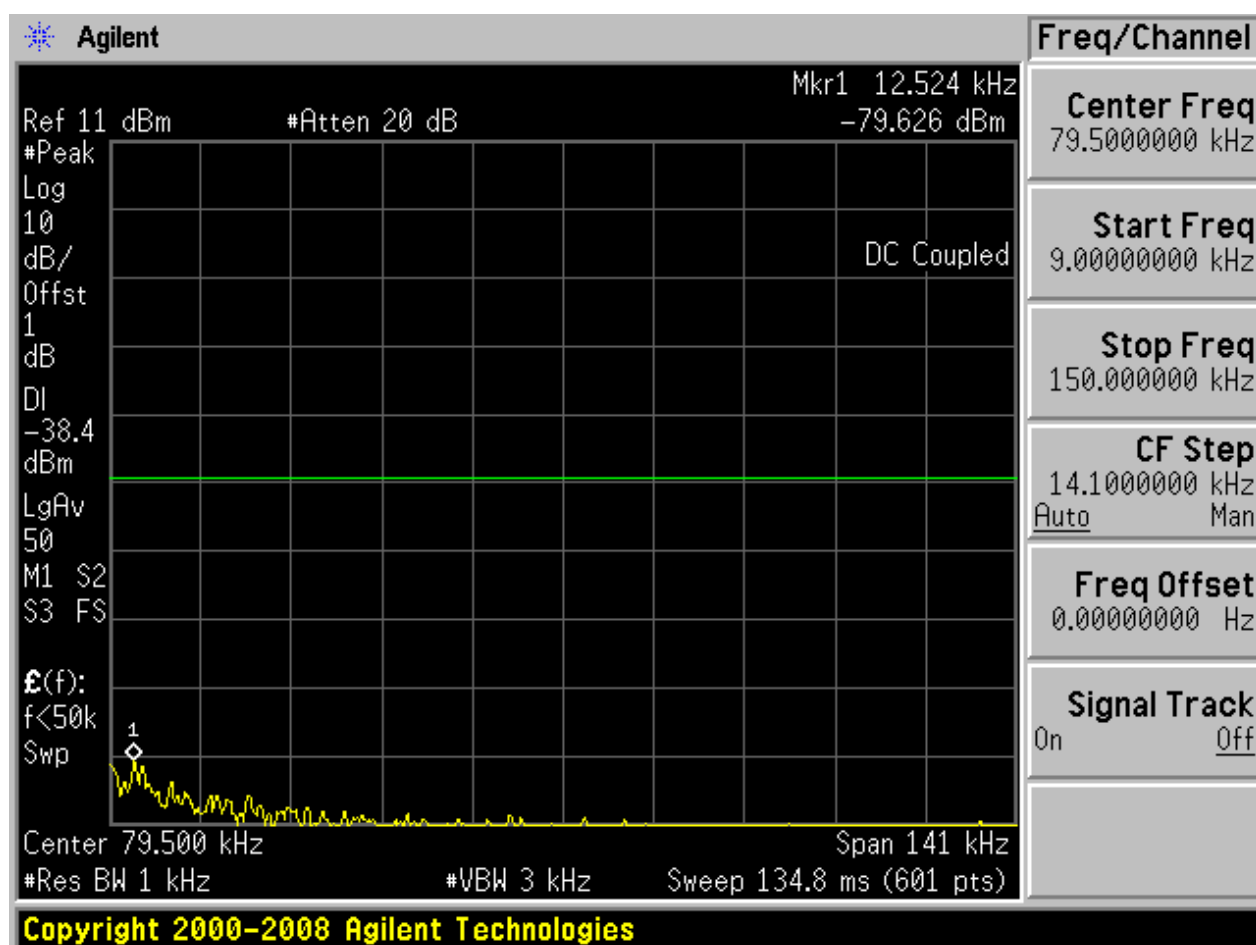
## 2.12 11G\_H@BG2

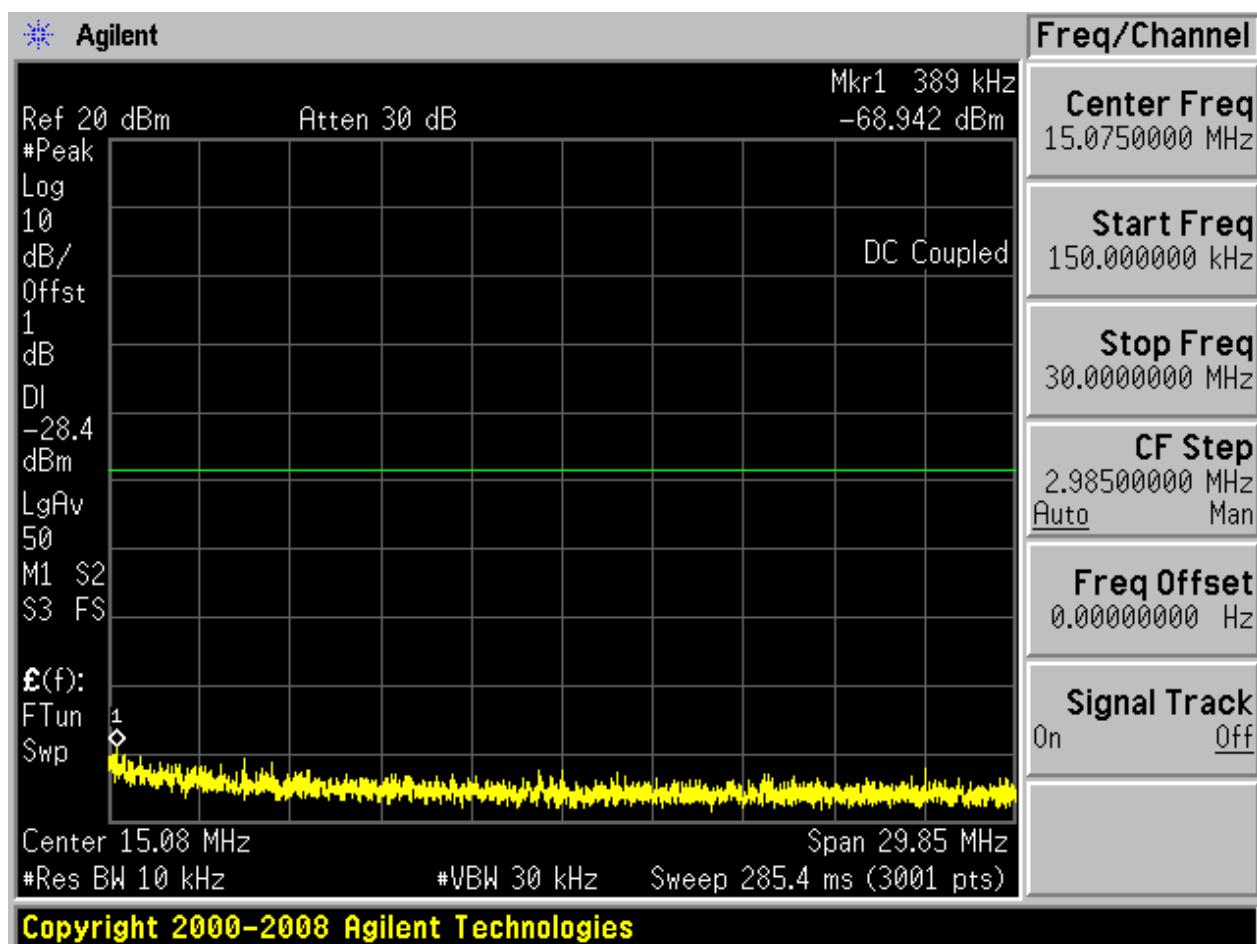
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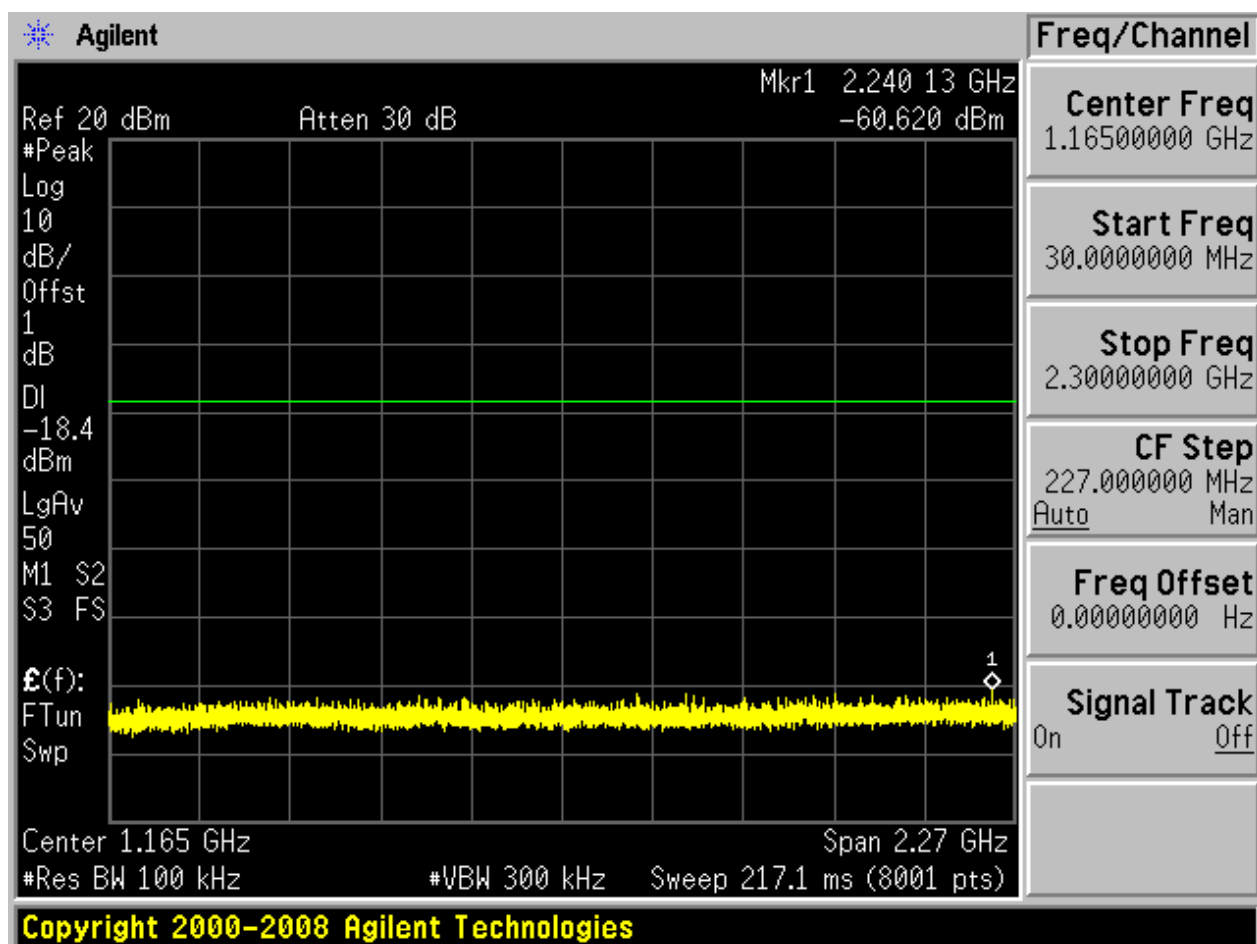


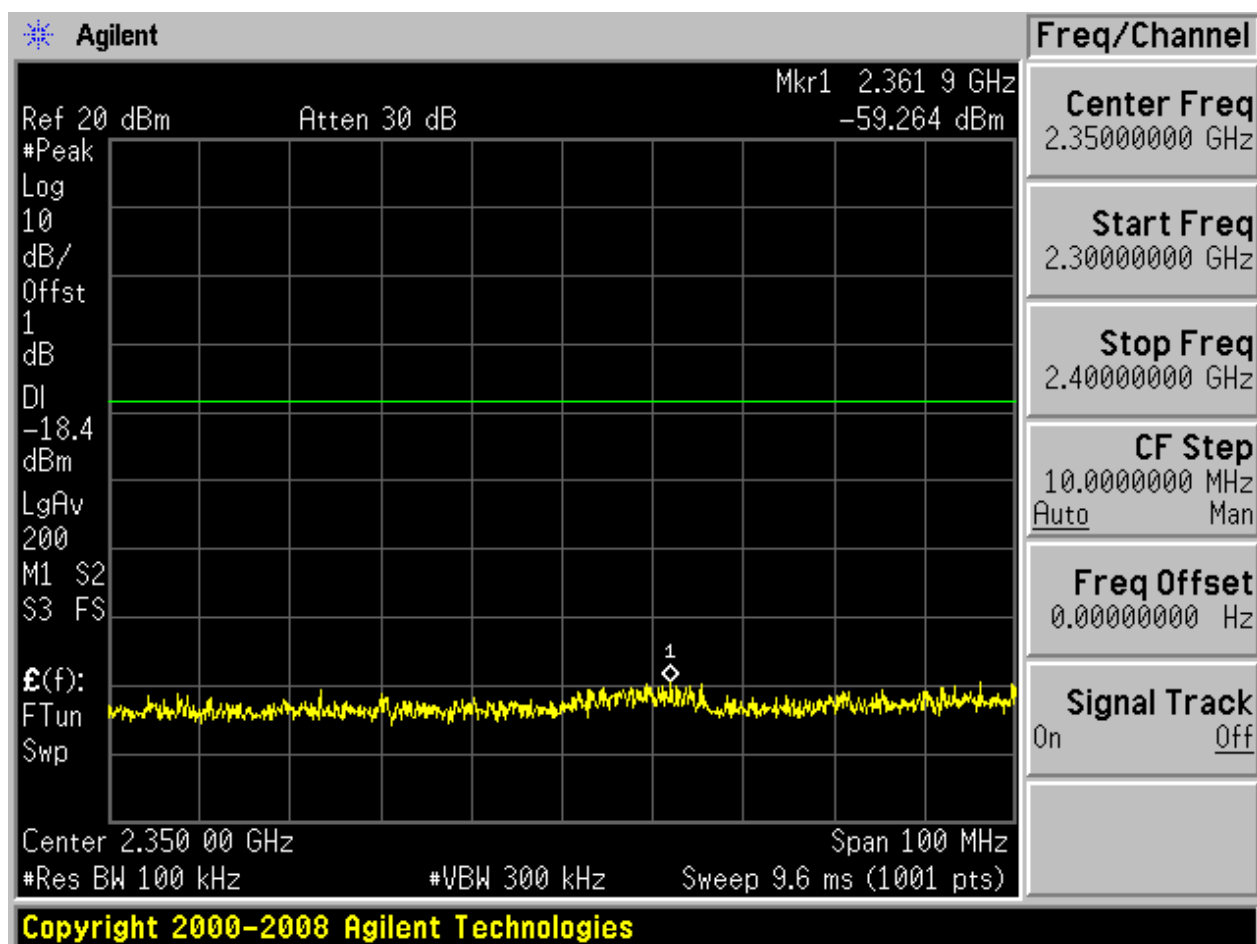


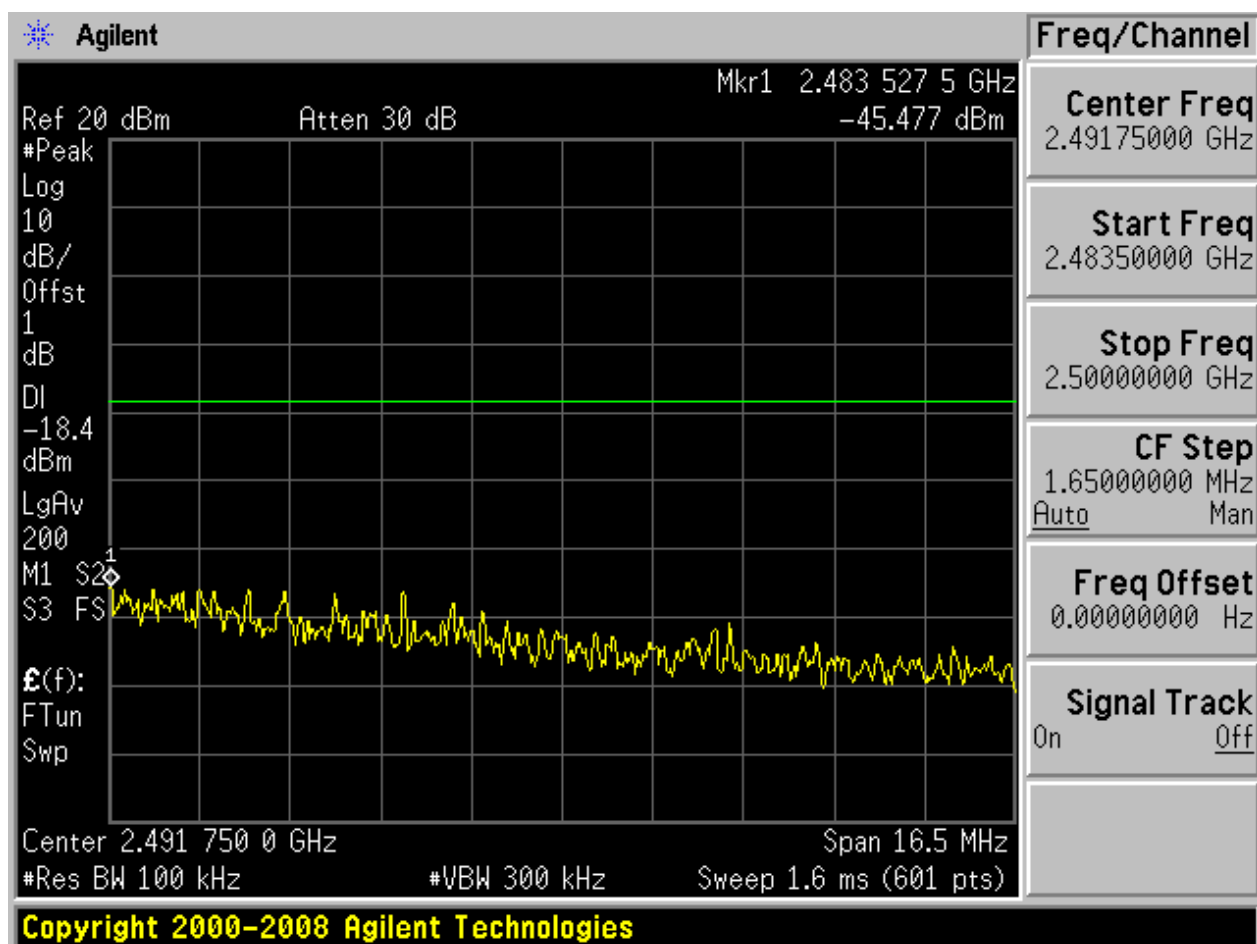
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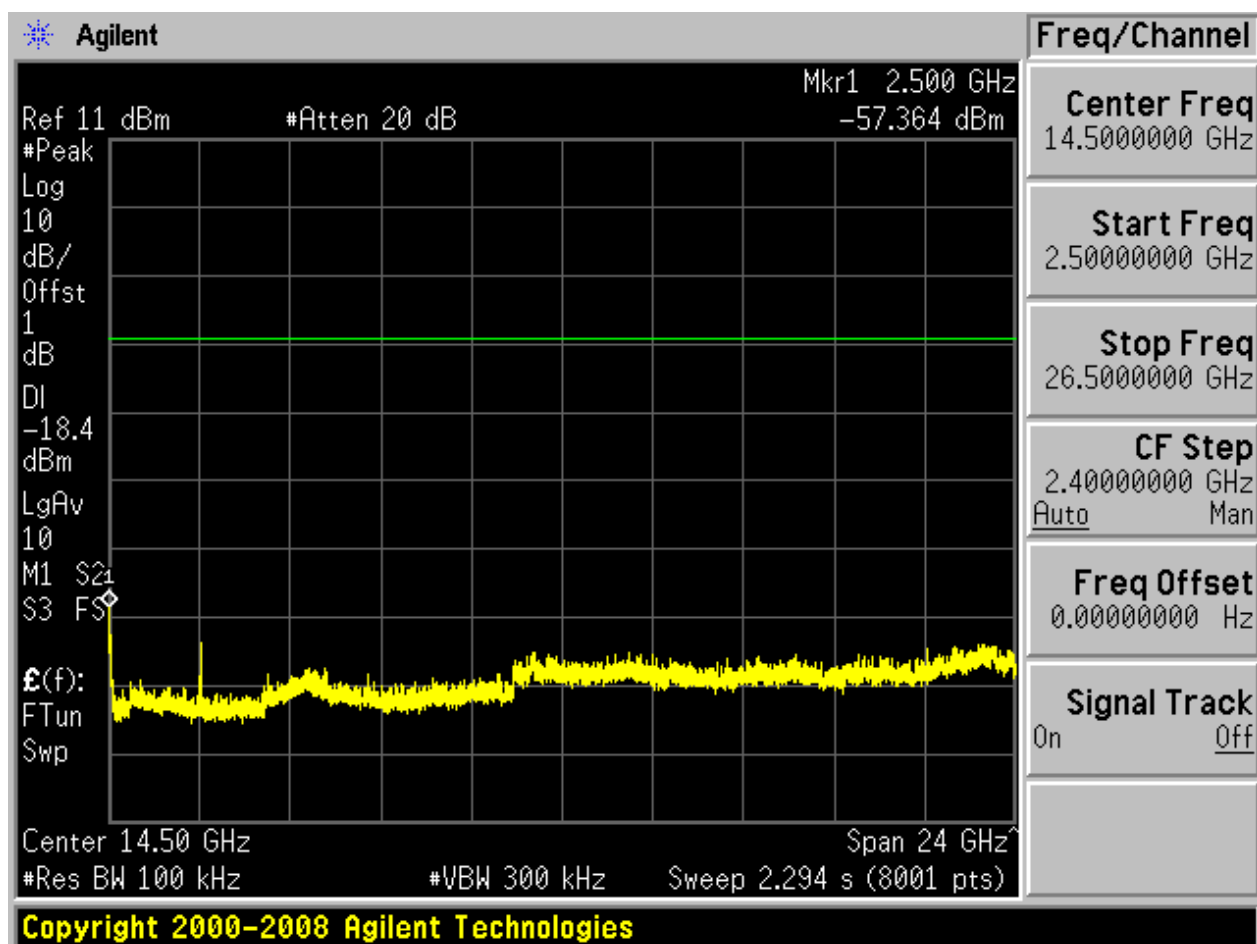






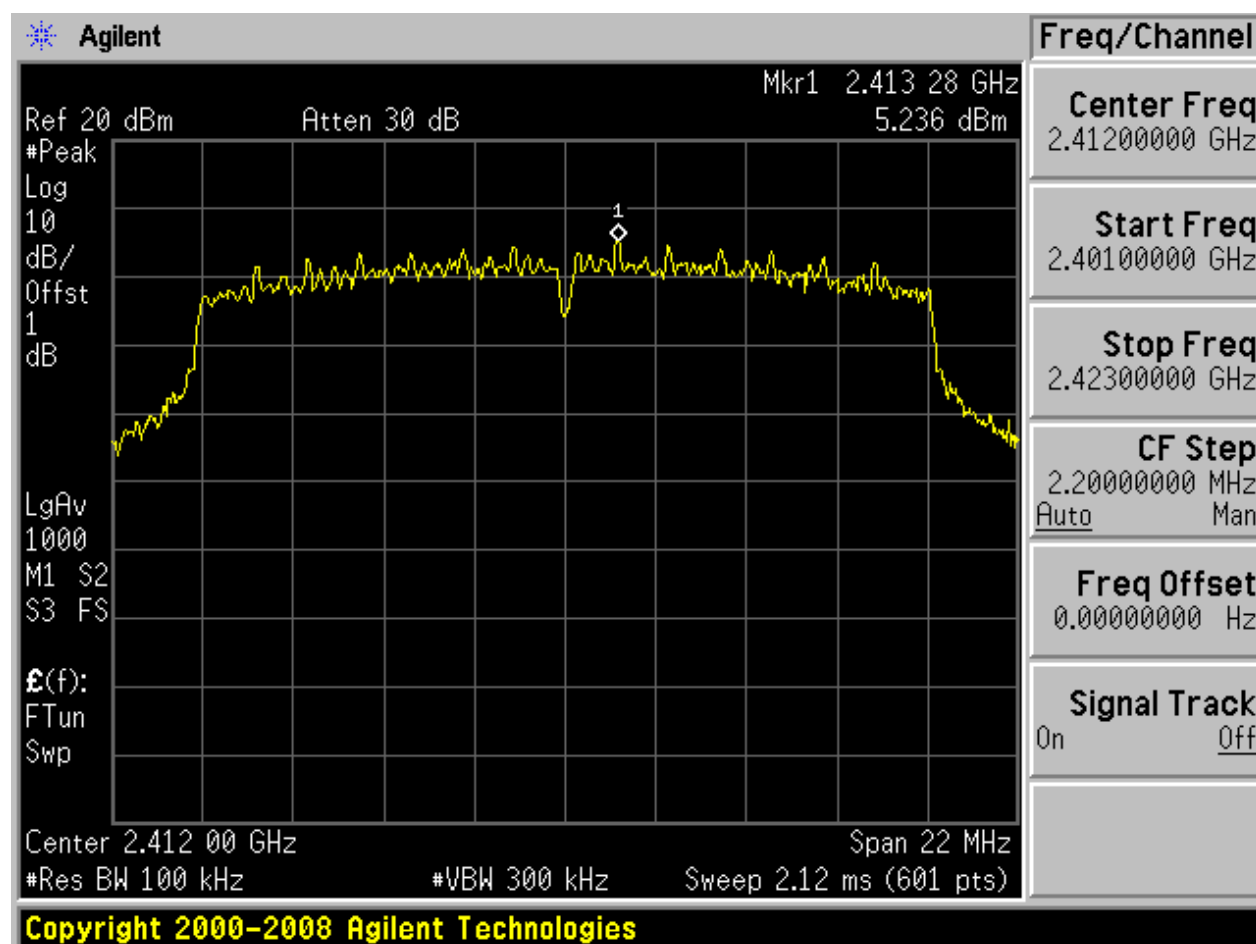






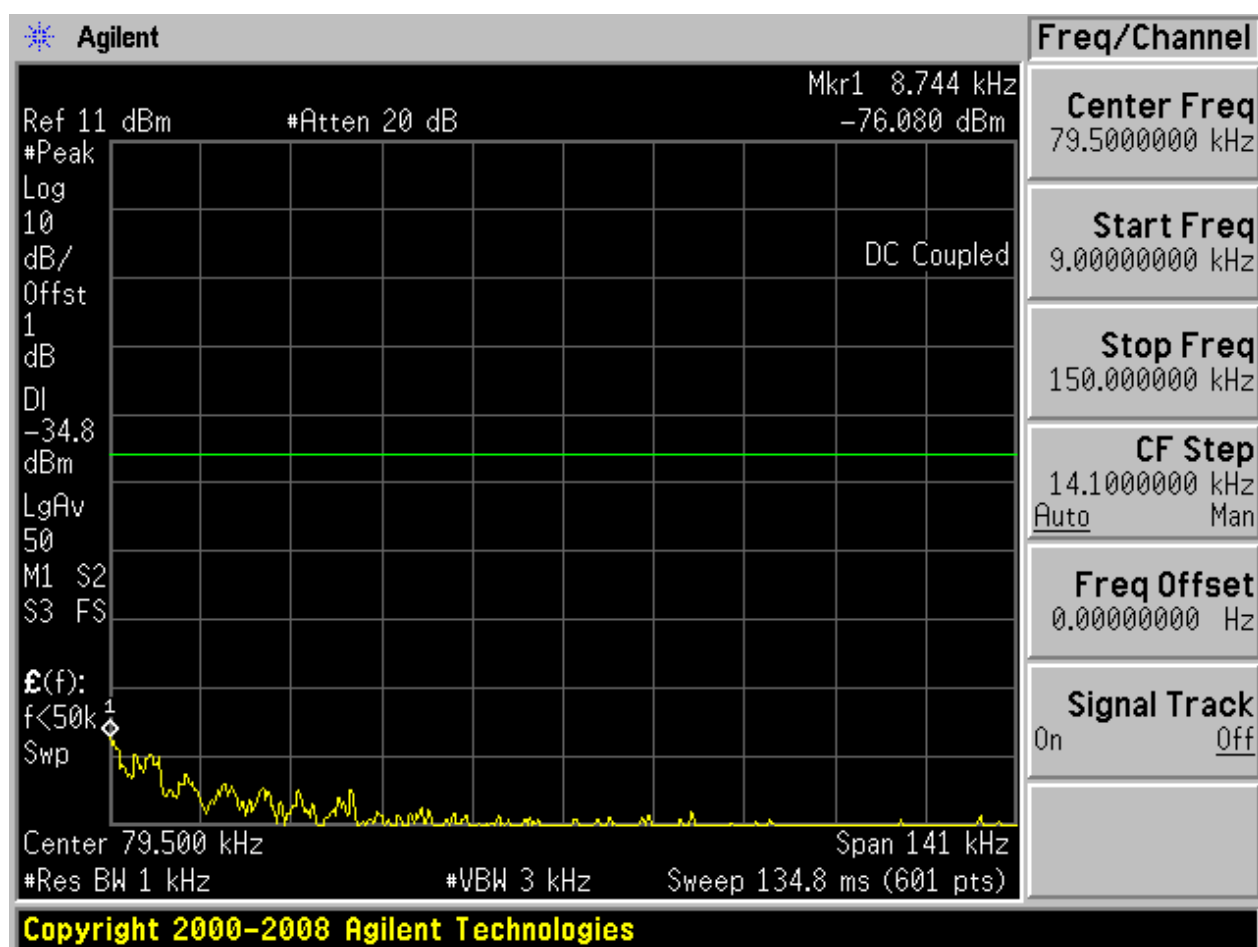
## 2.13 11N20\_L@BG1

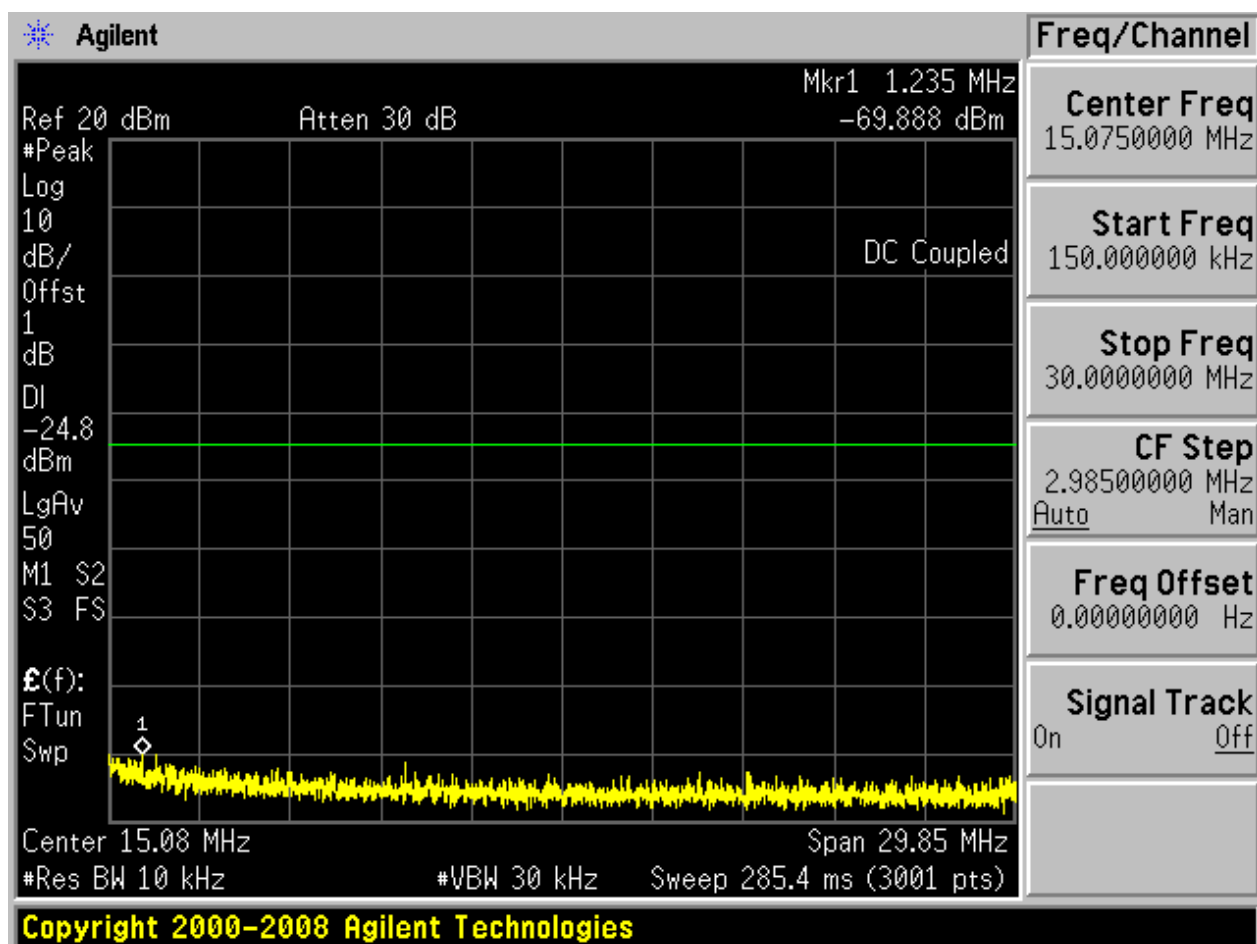
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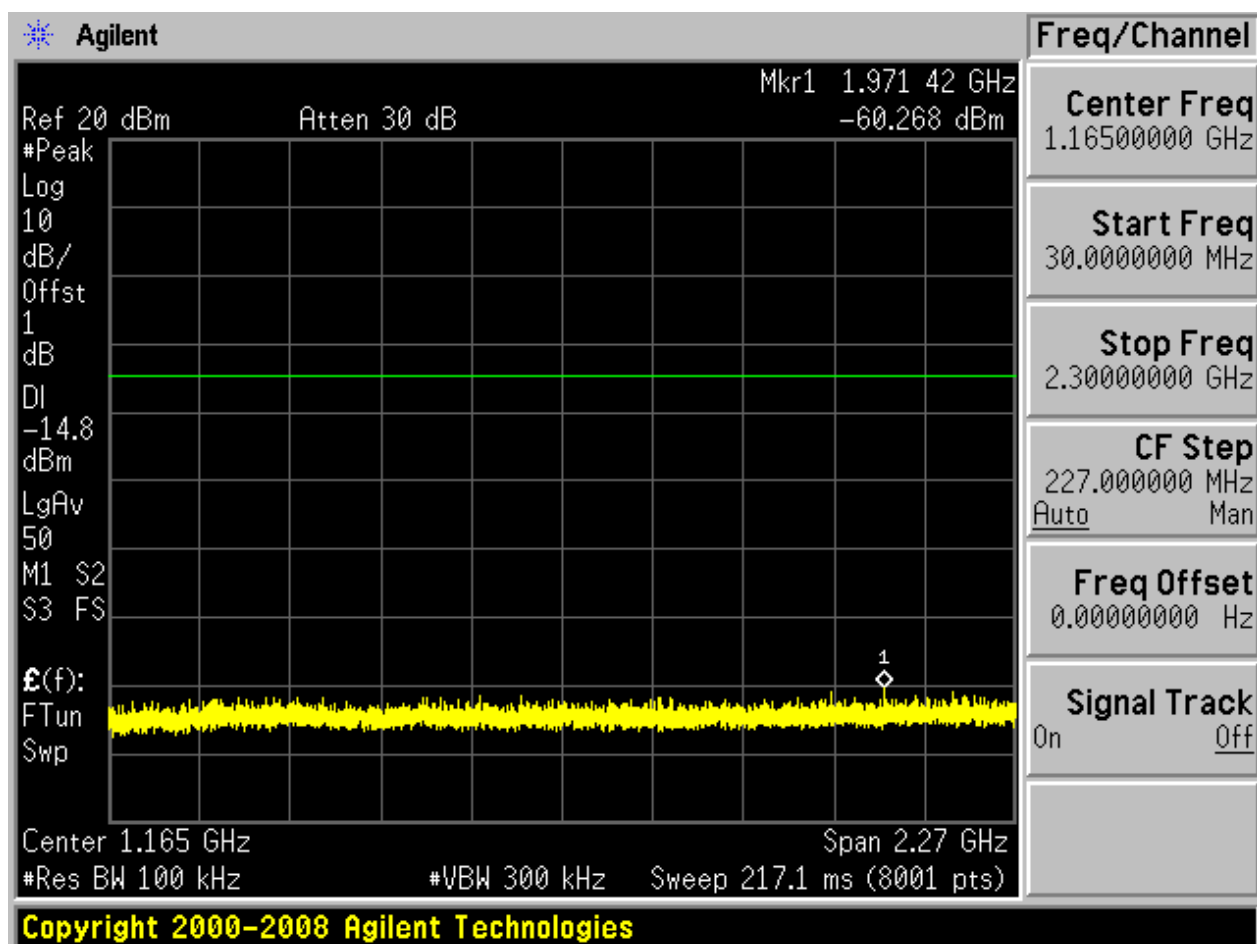


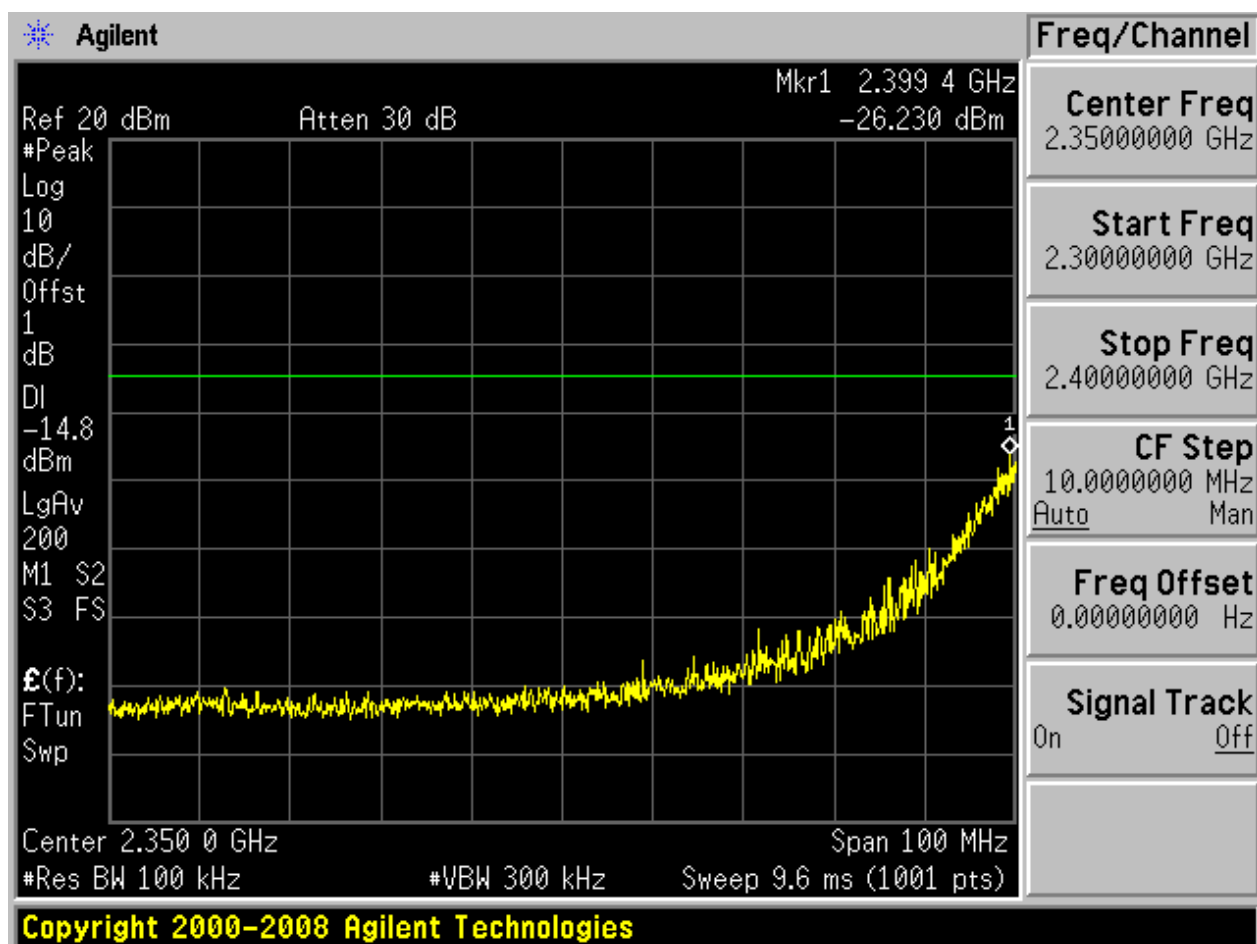


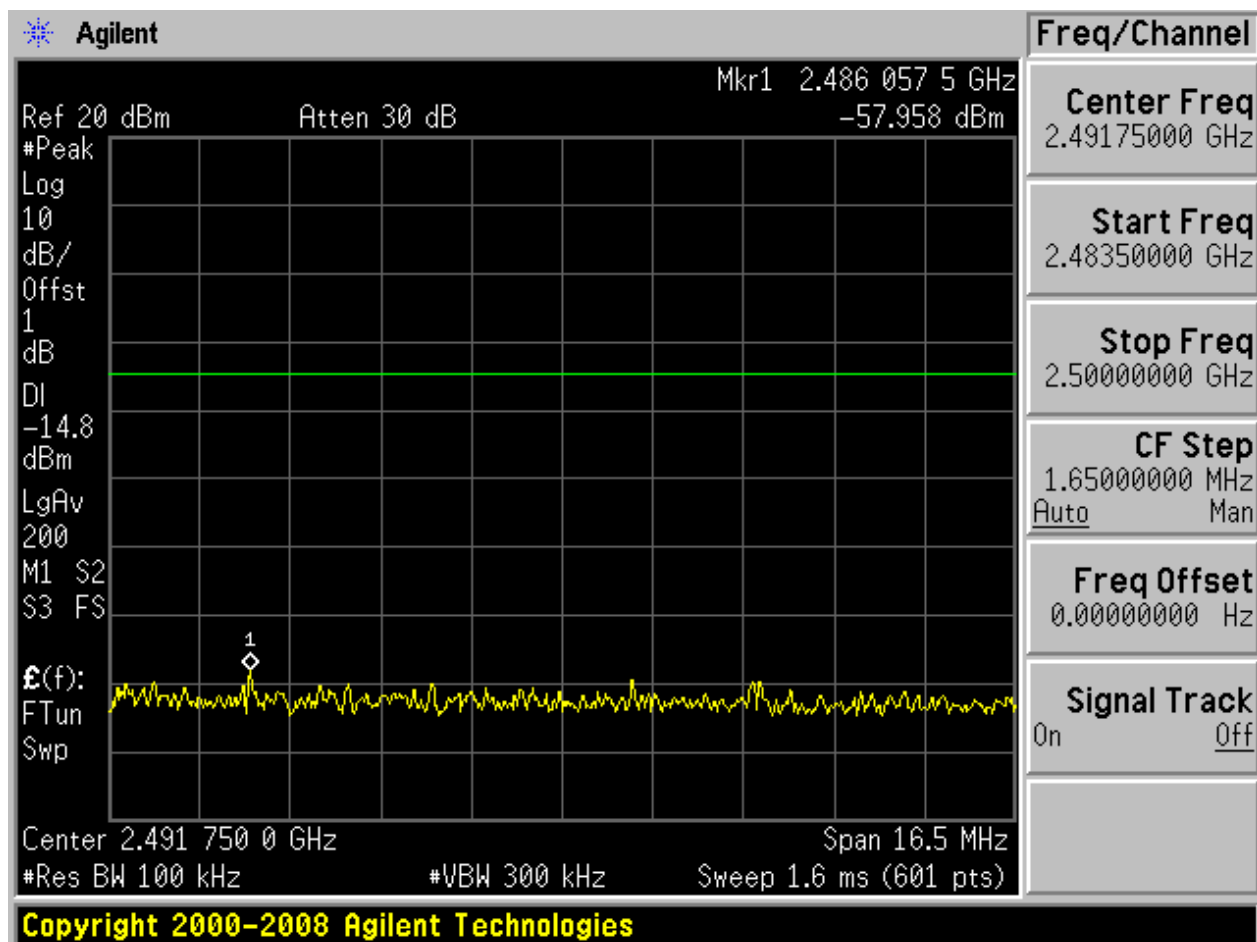
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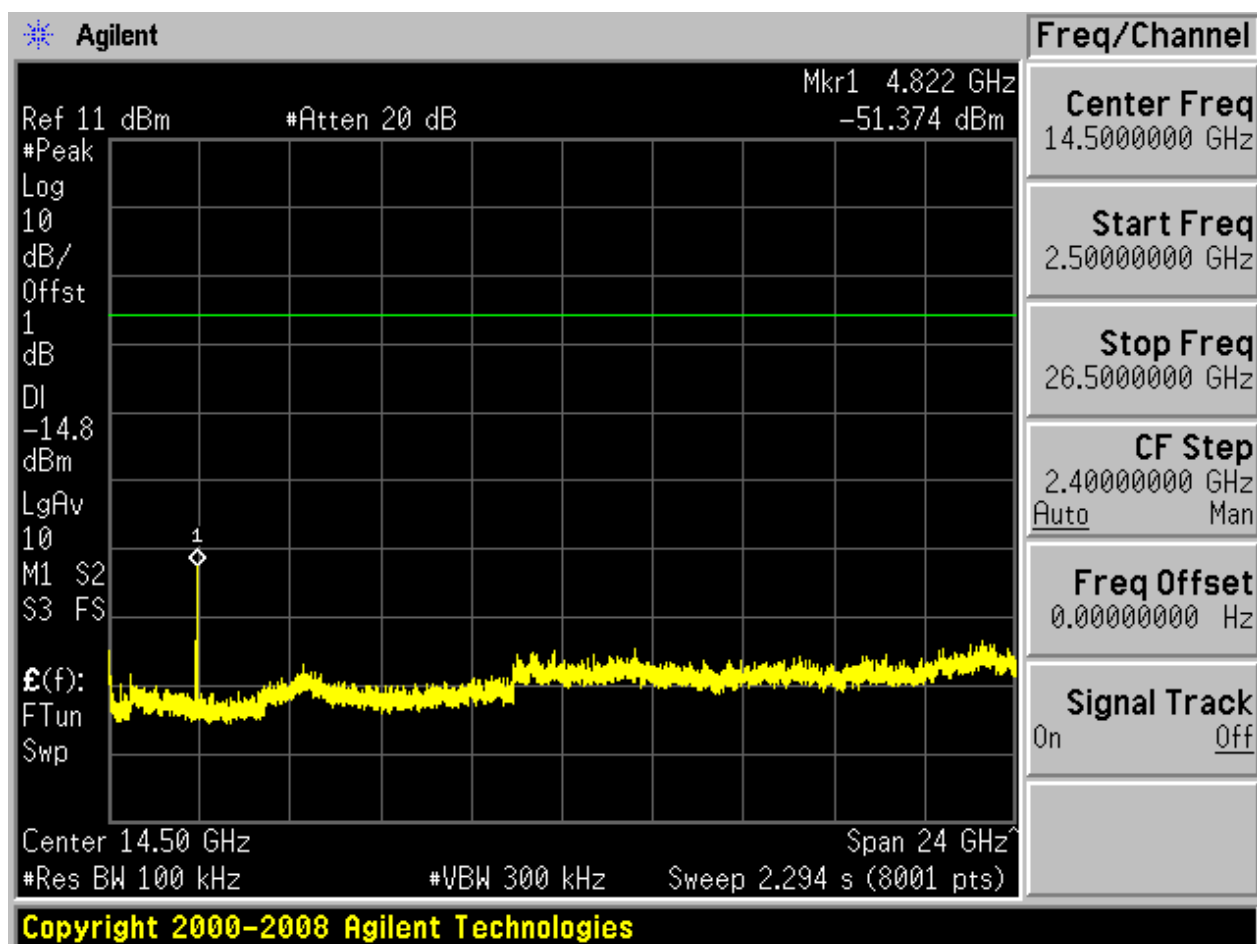






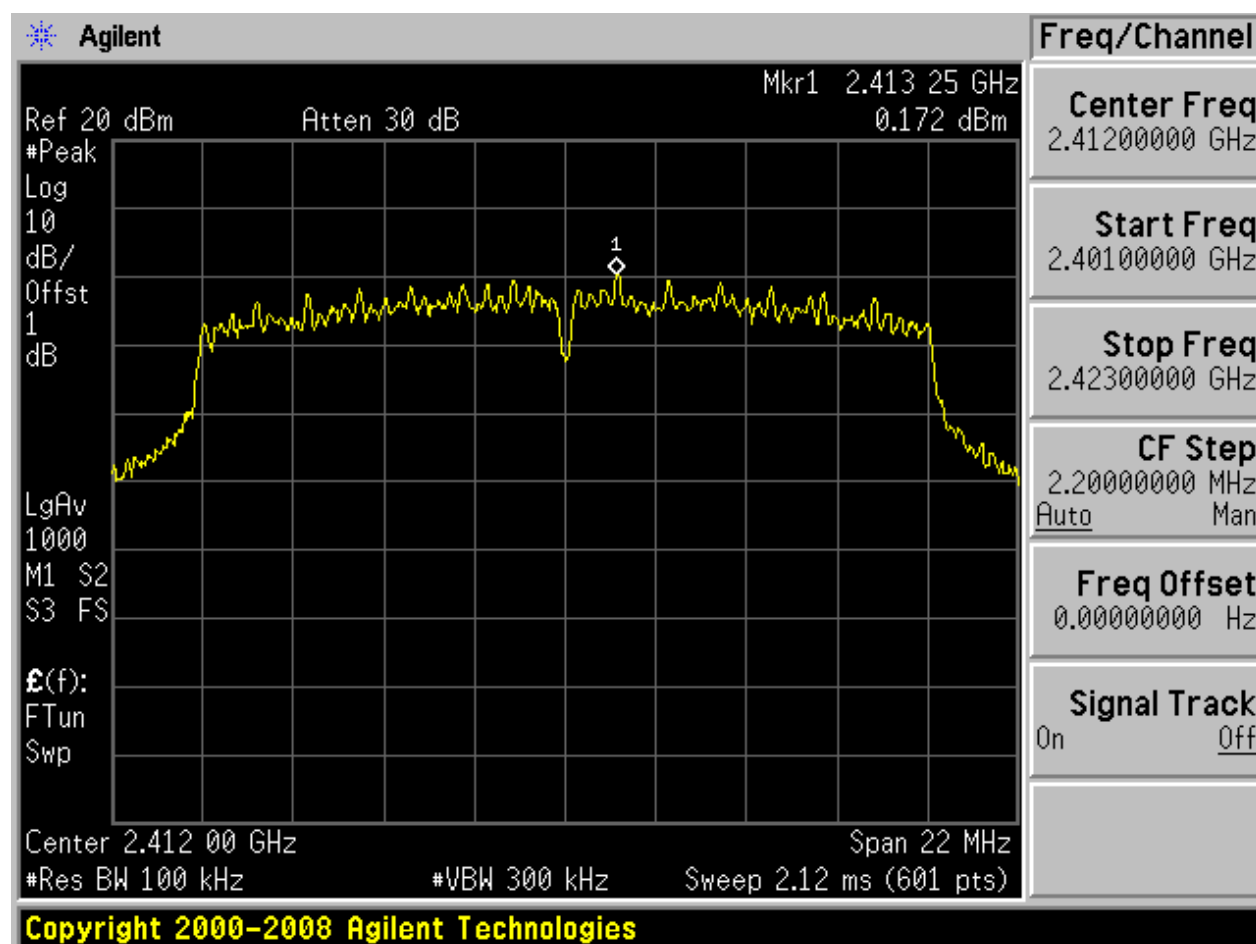






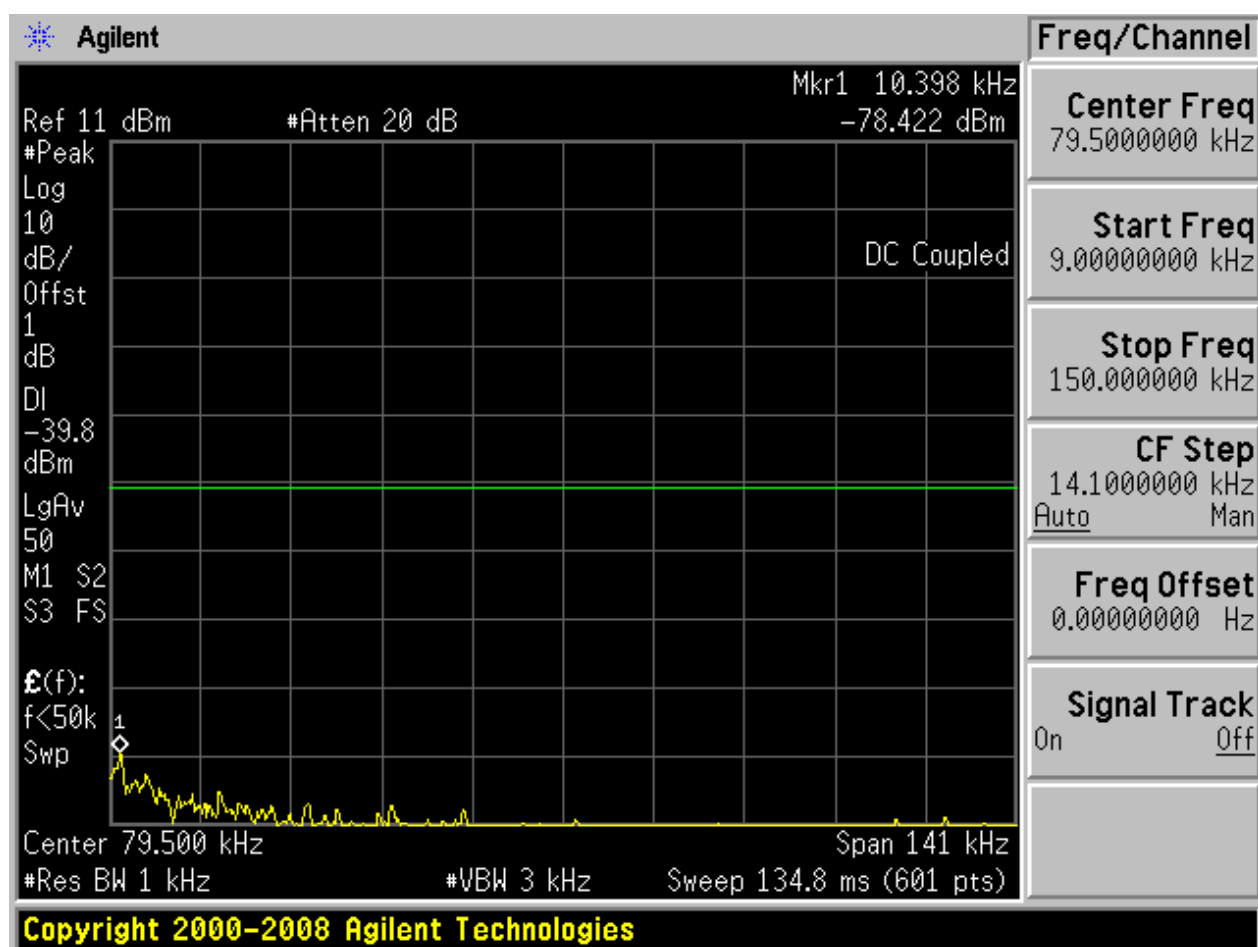
## 2.14 11N20\_L@BG2

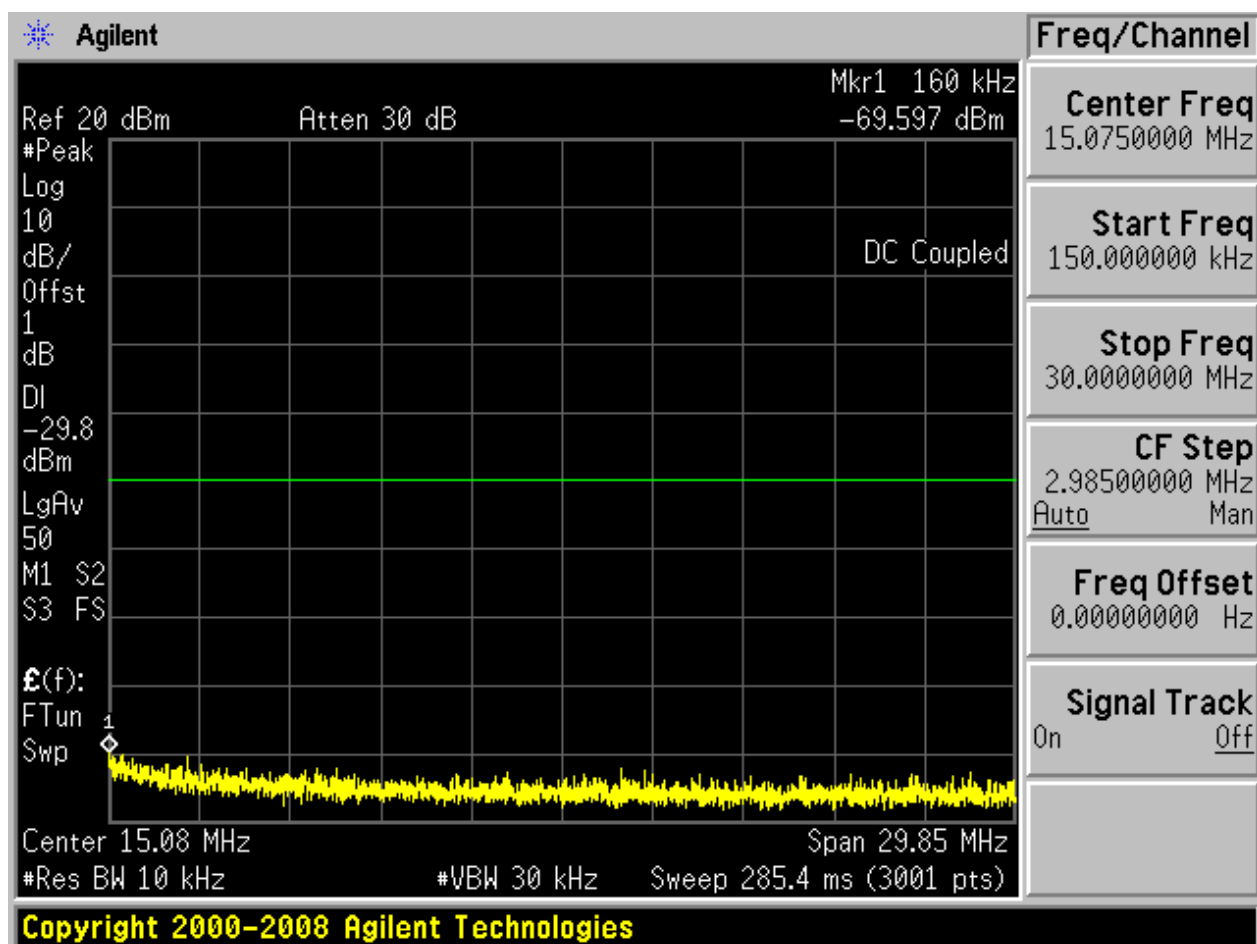
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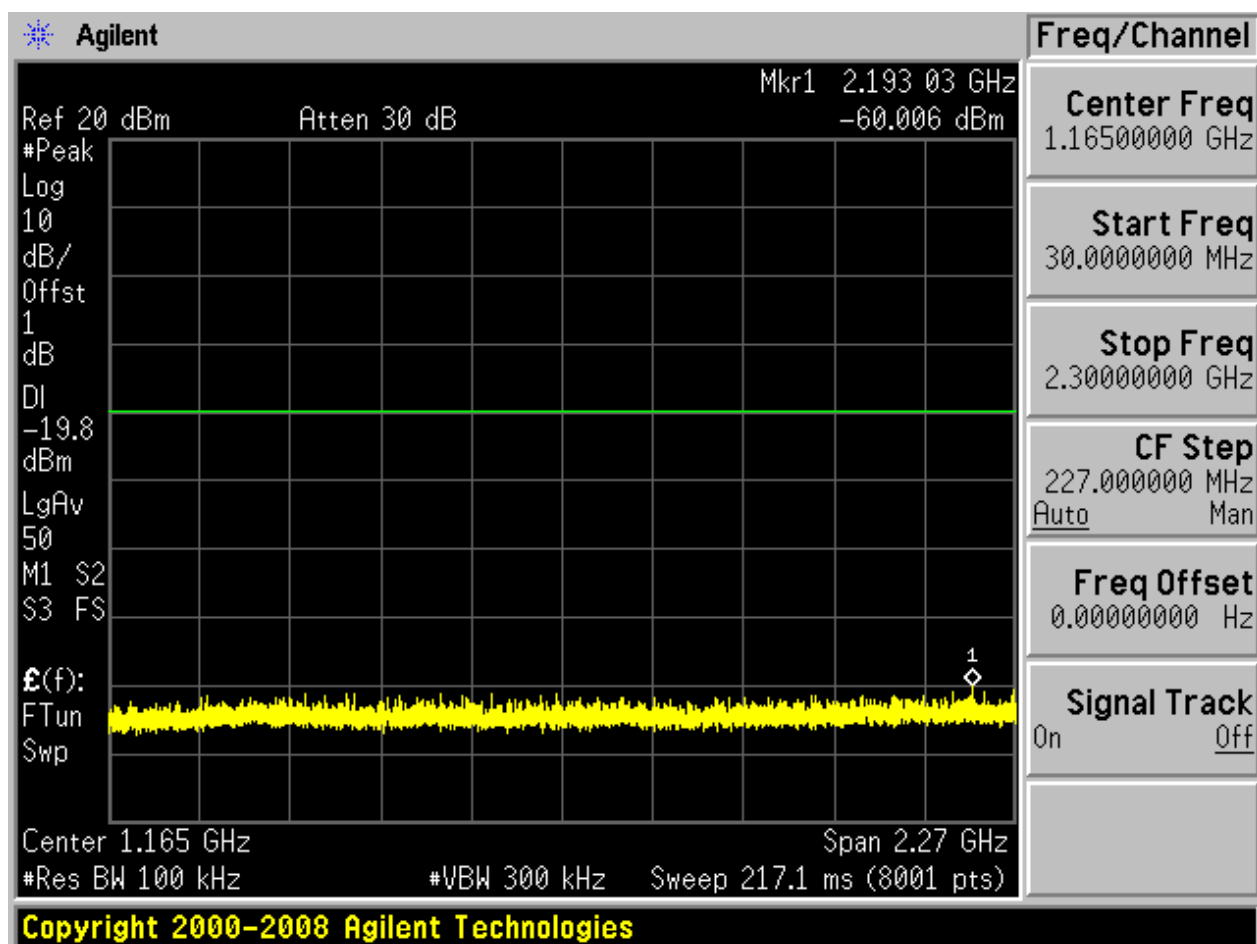


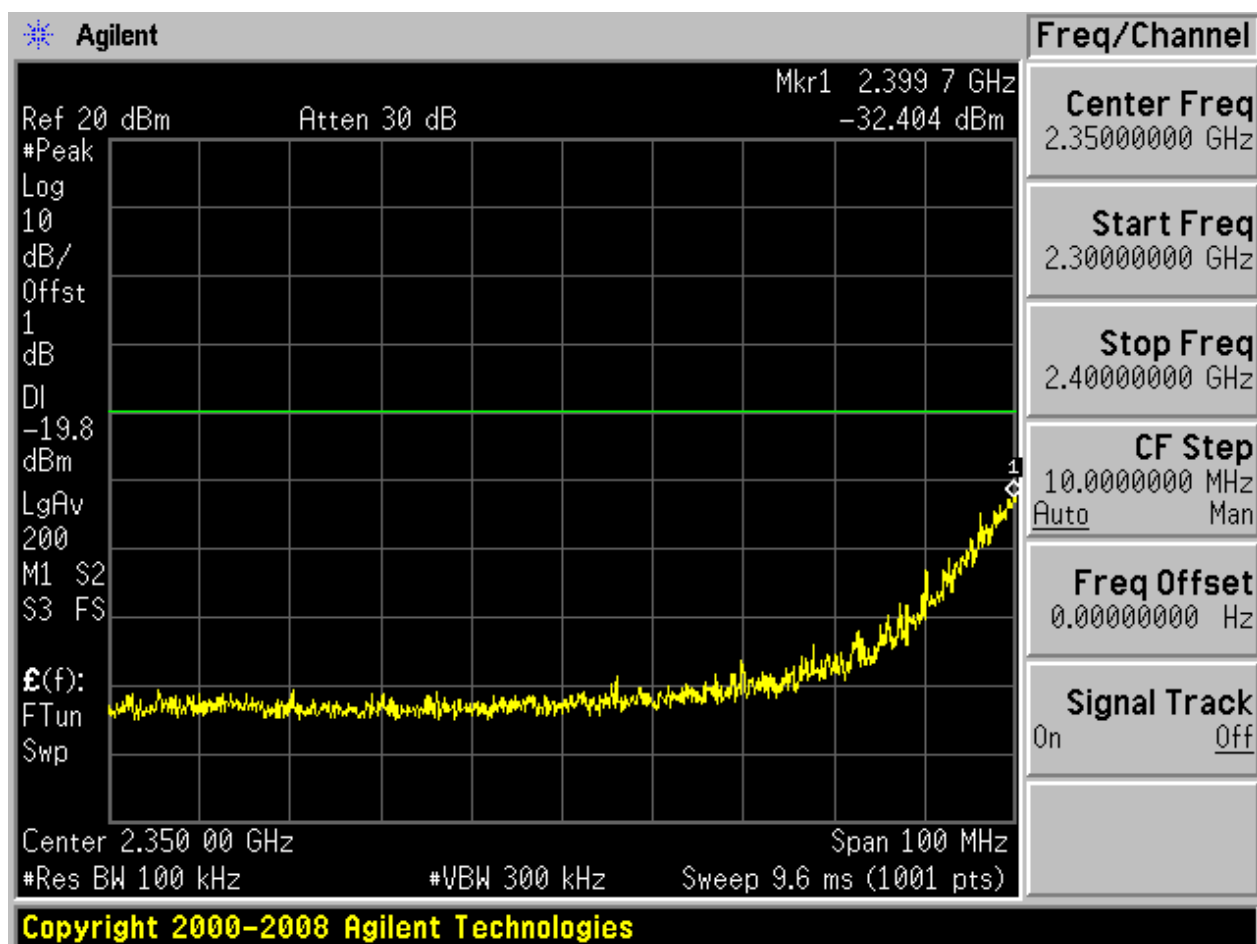


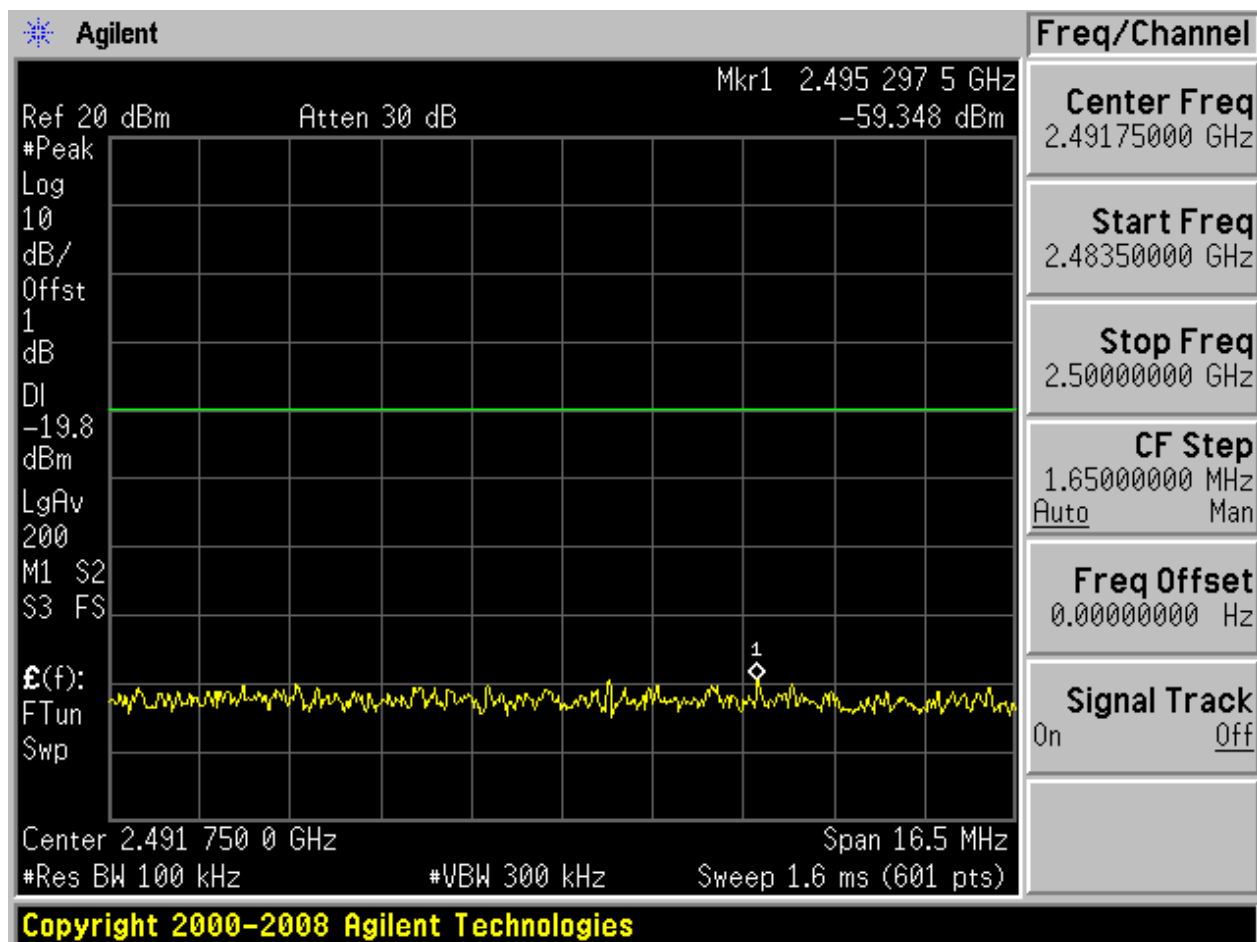
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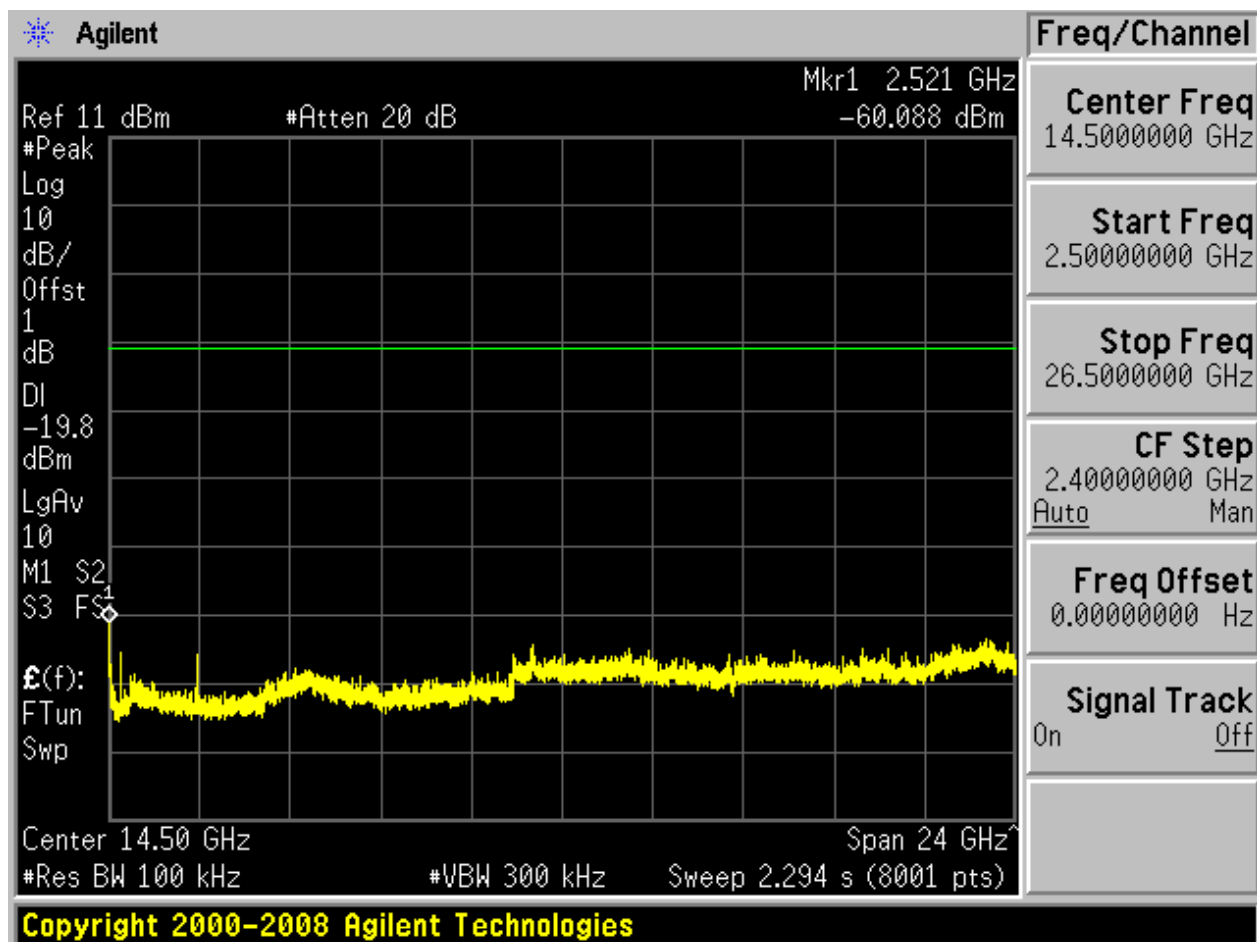








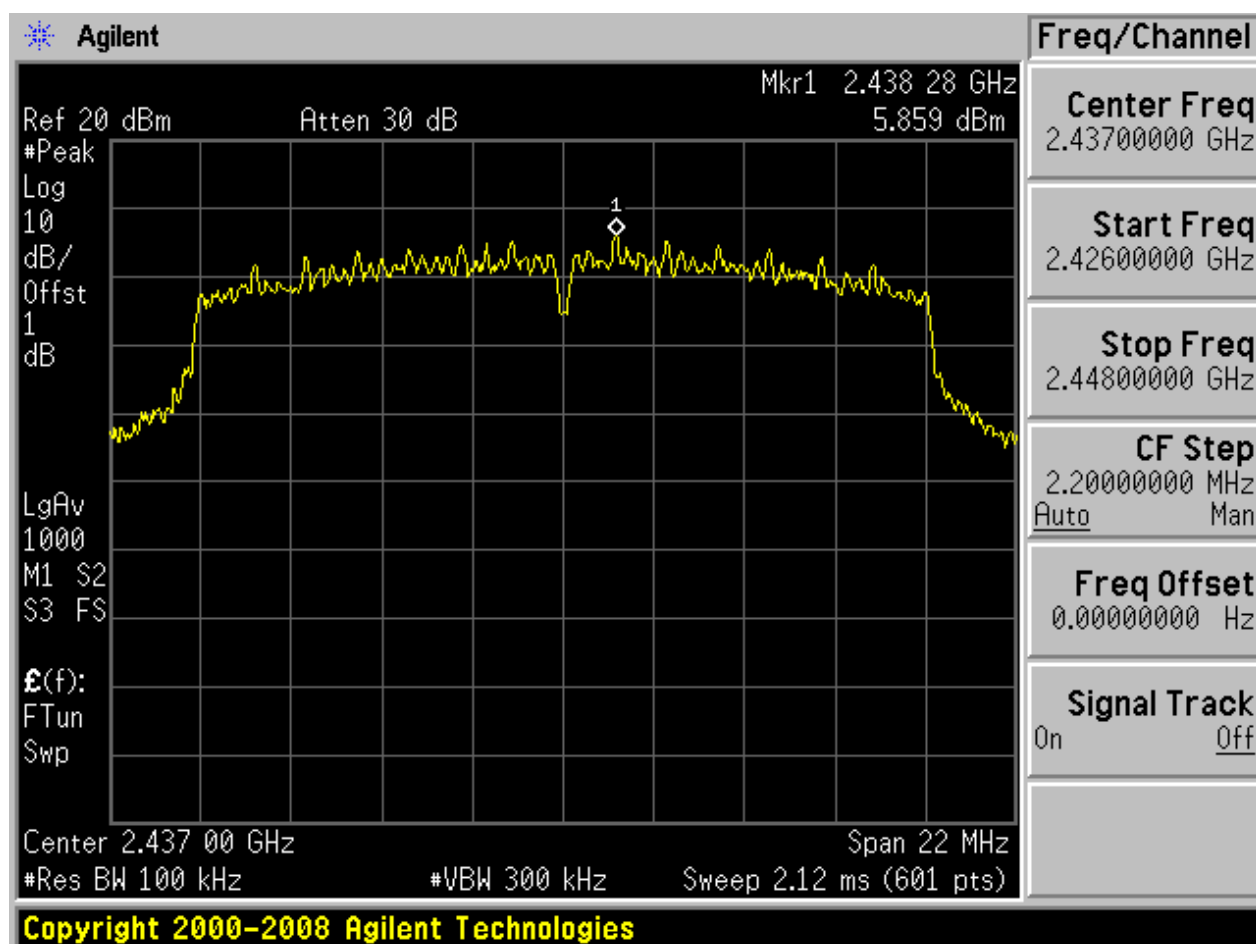






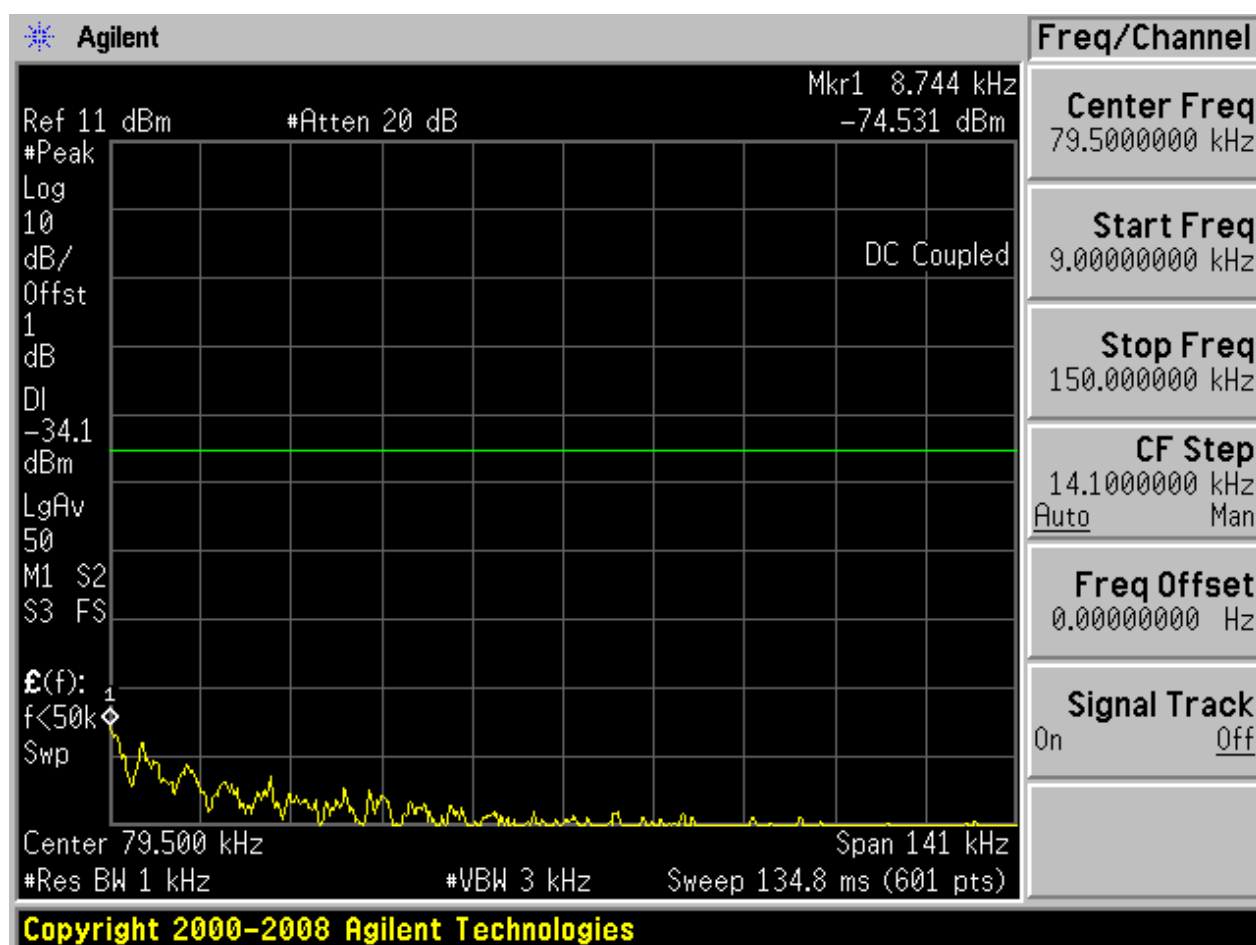
## 2.15 11N20\_M@BG1

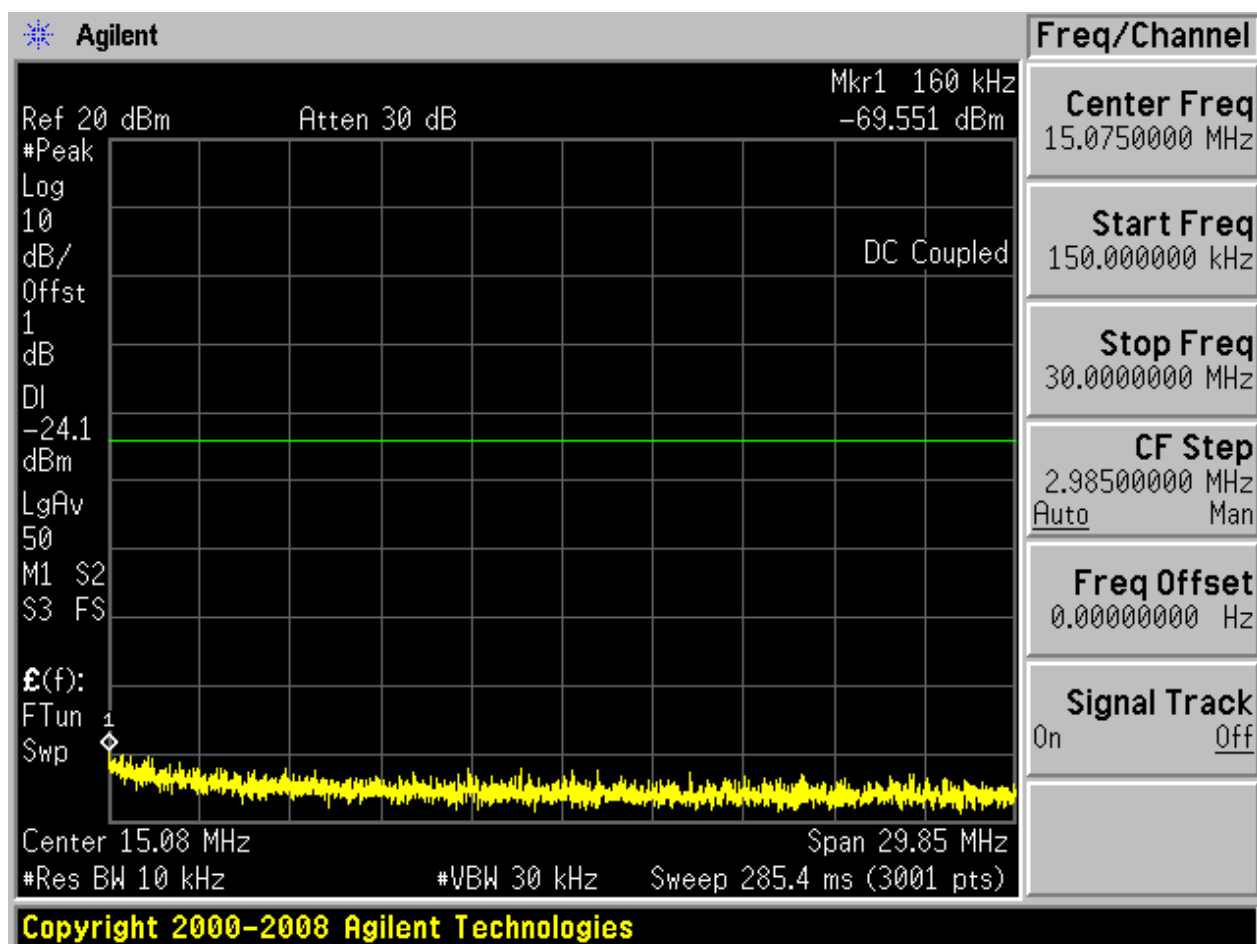
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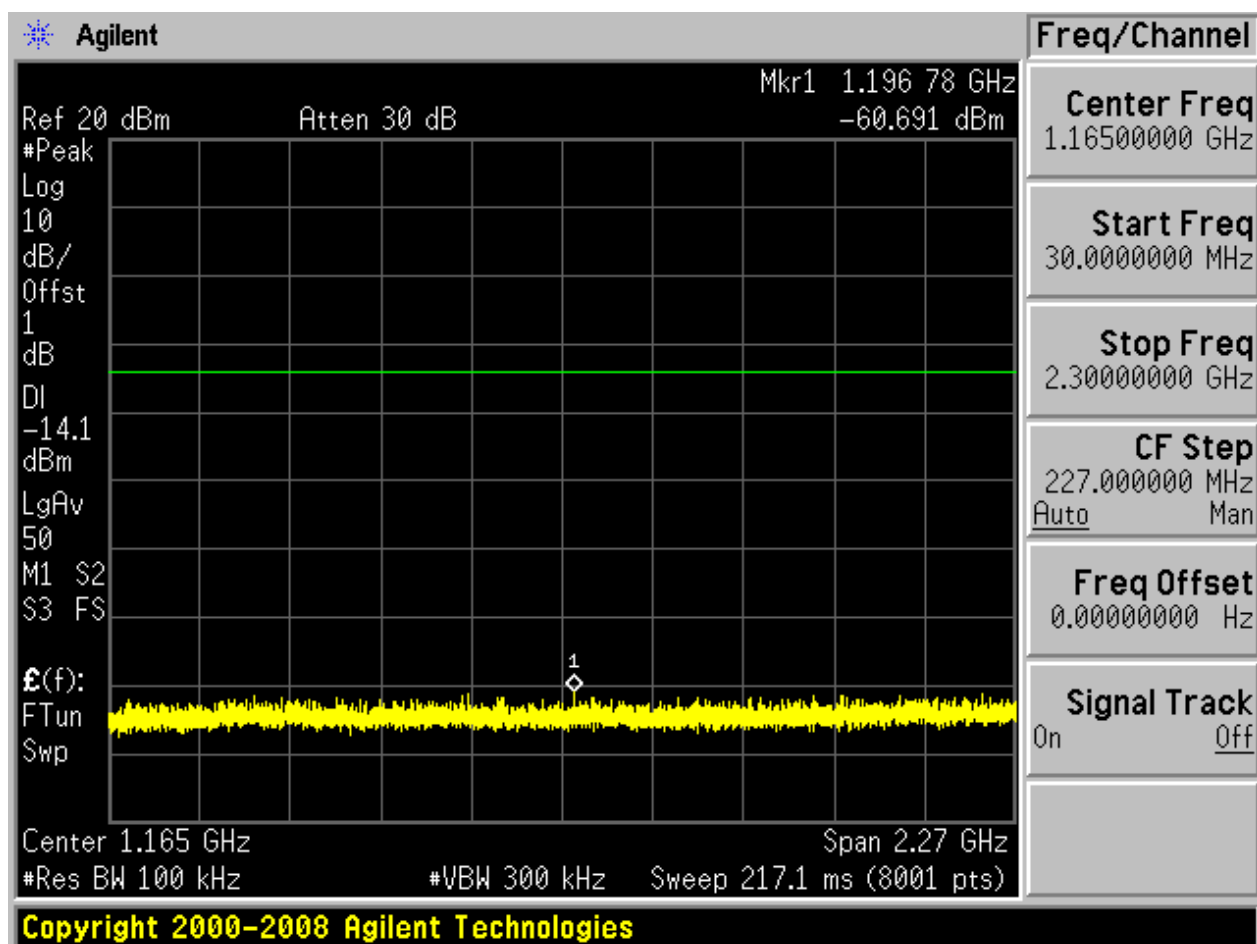


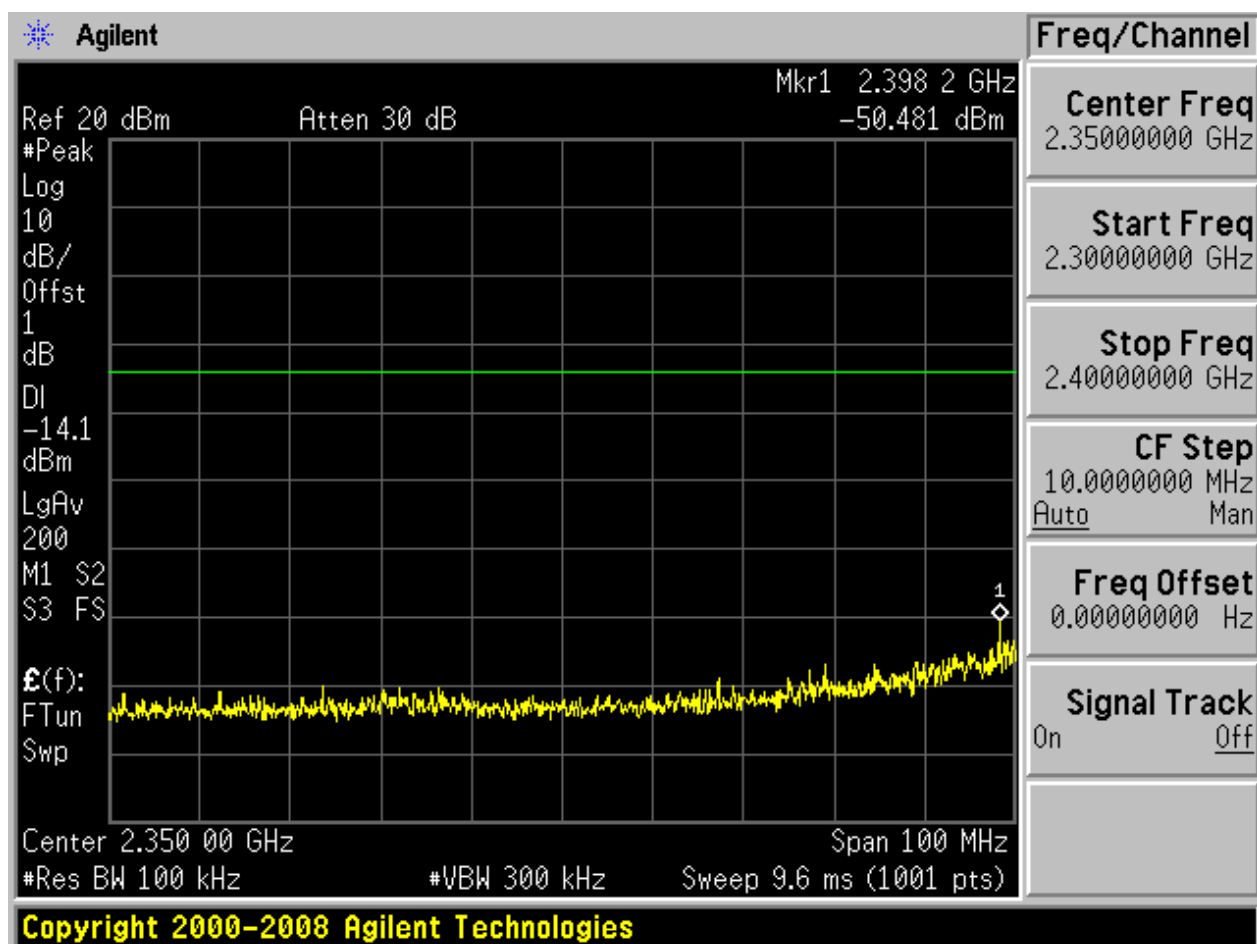


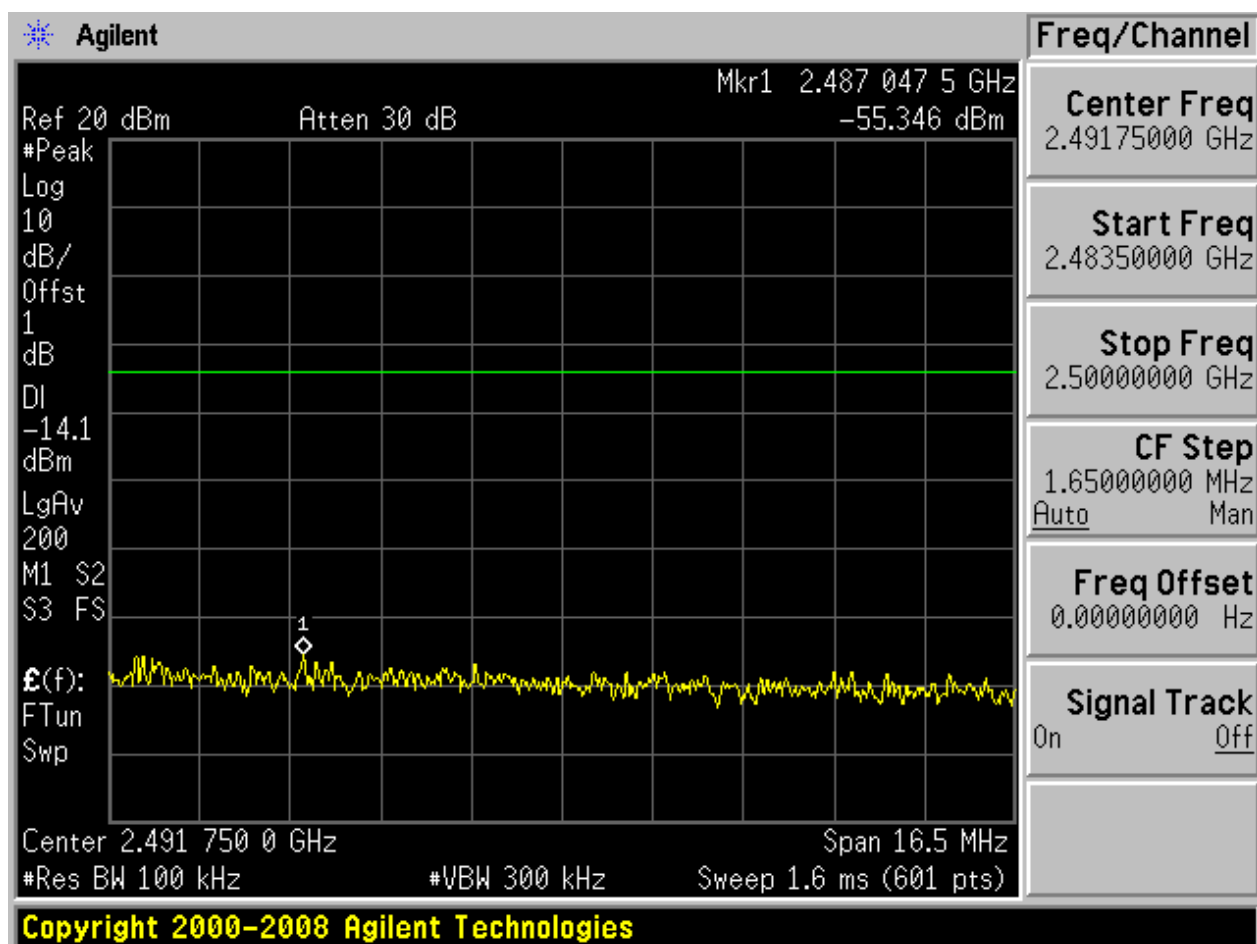
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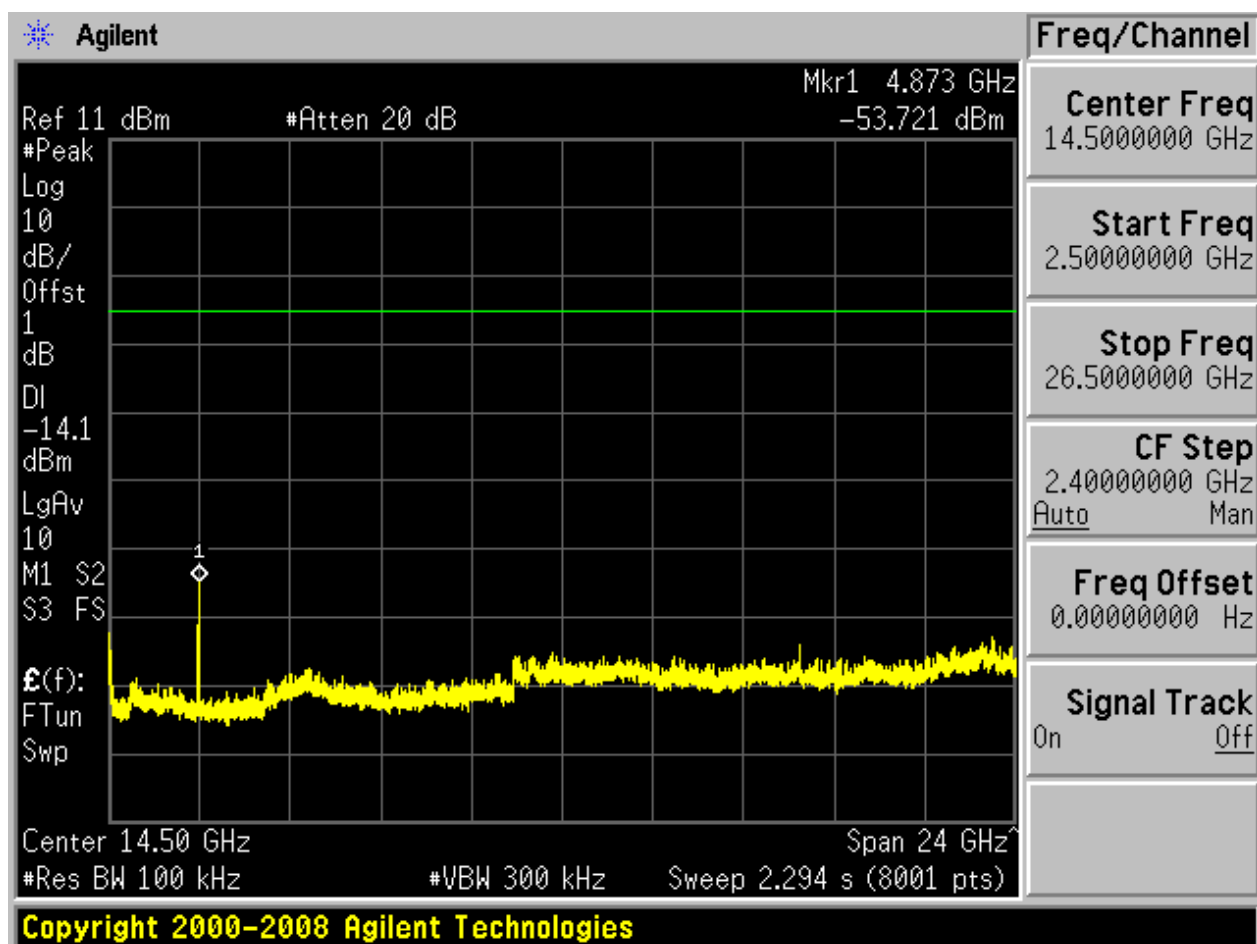








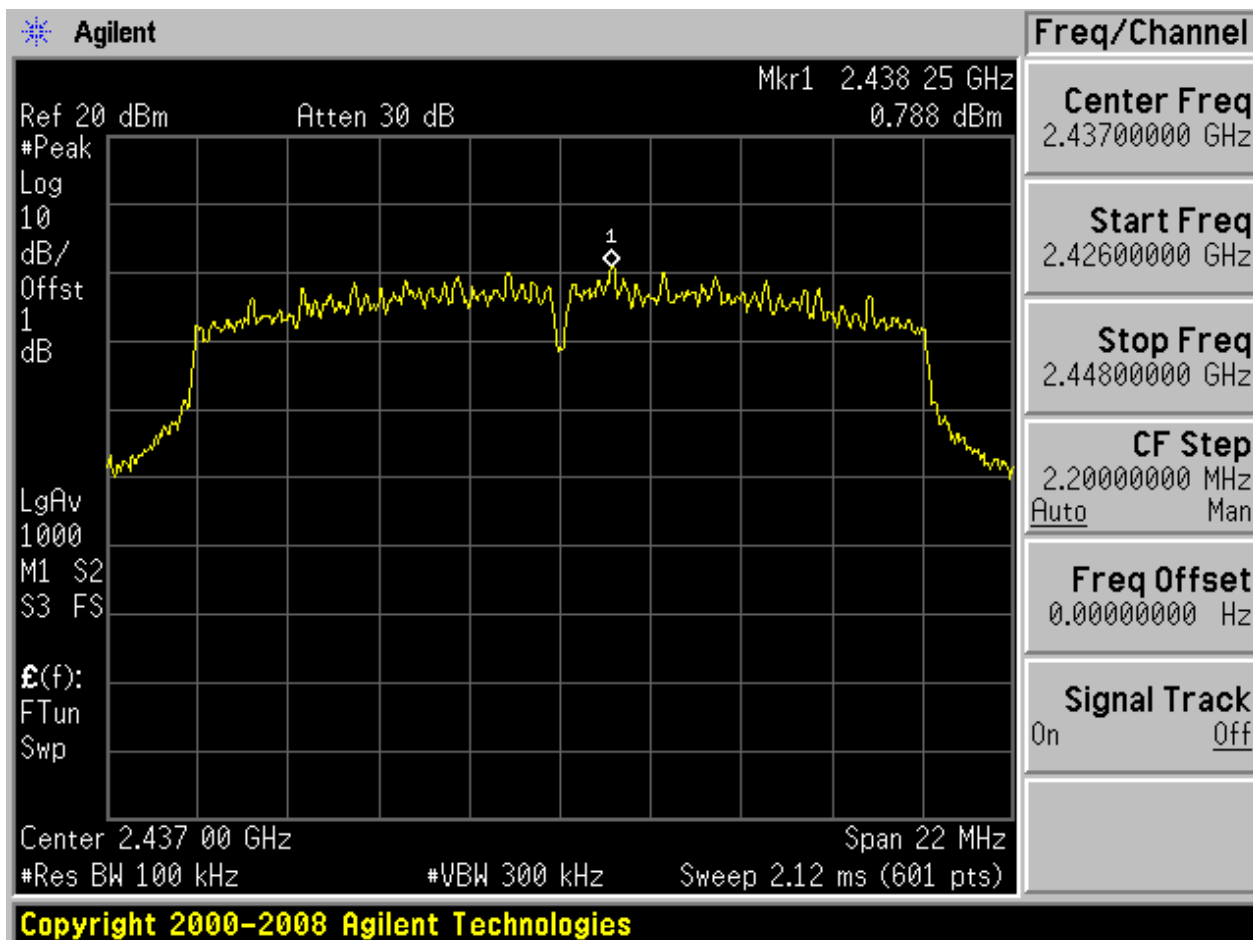






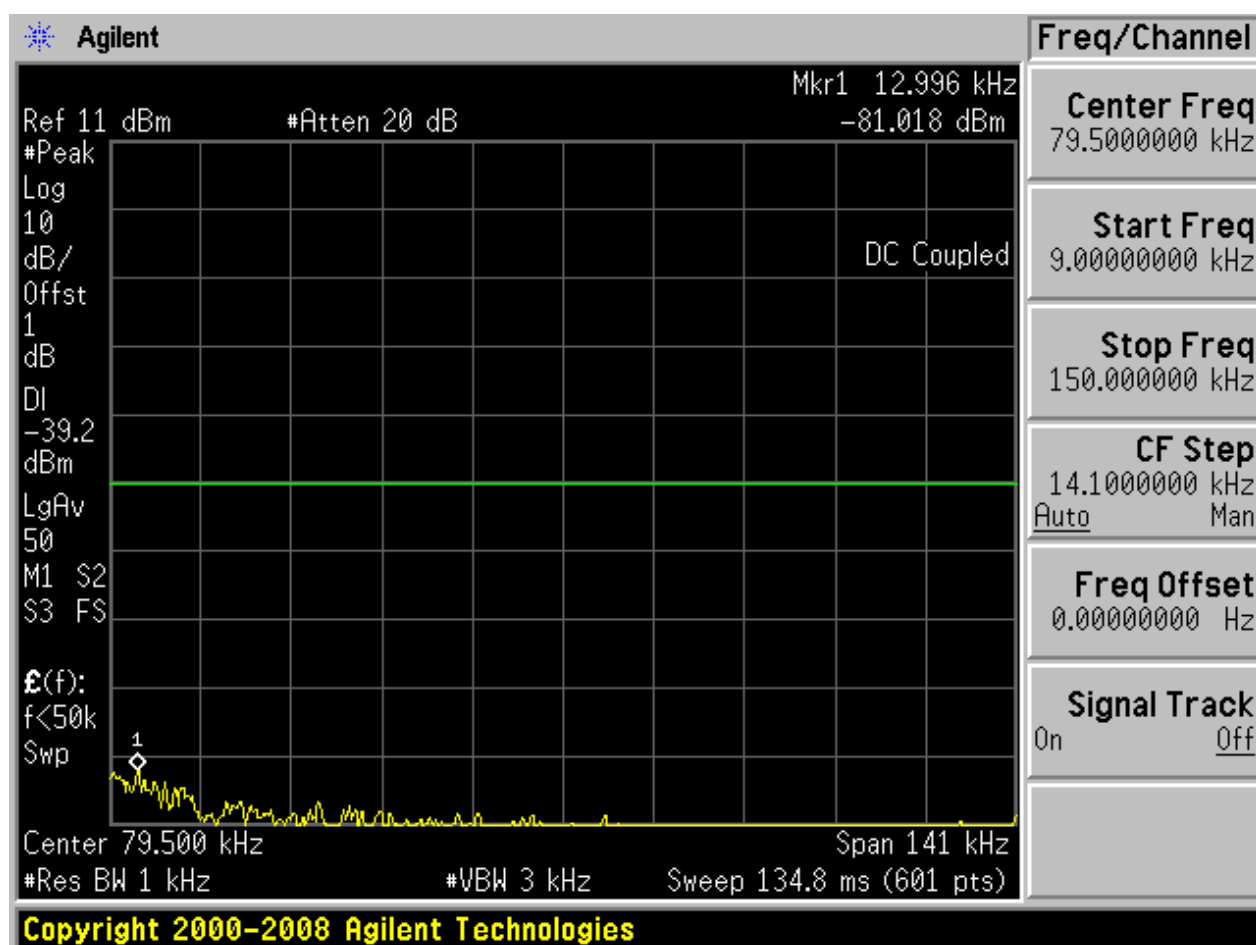
## 2.16 11N20\_M@BG2

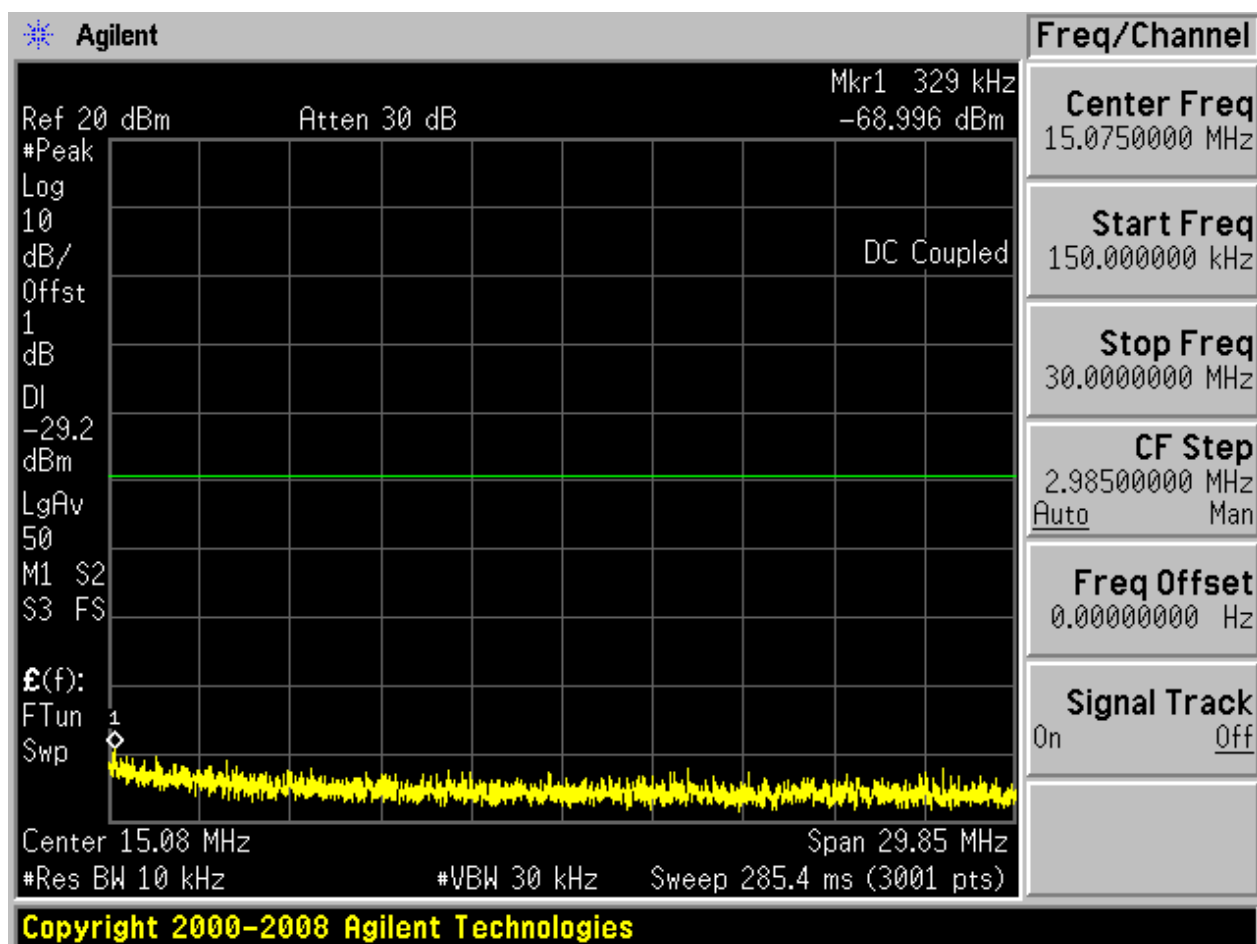
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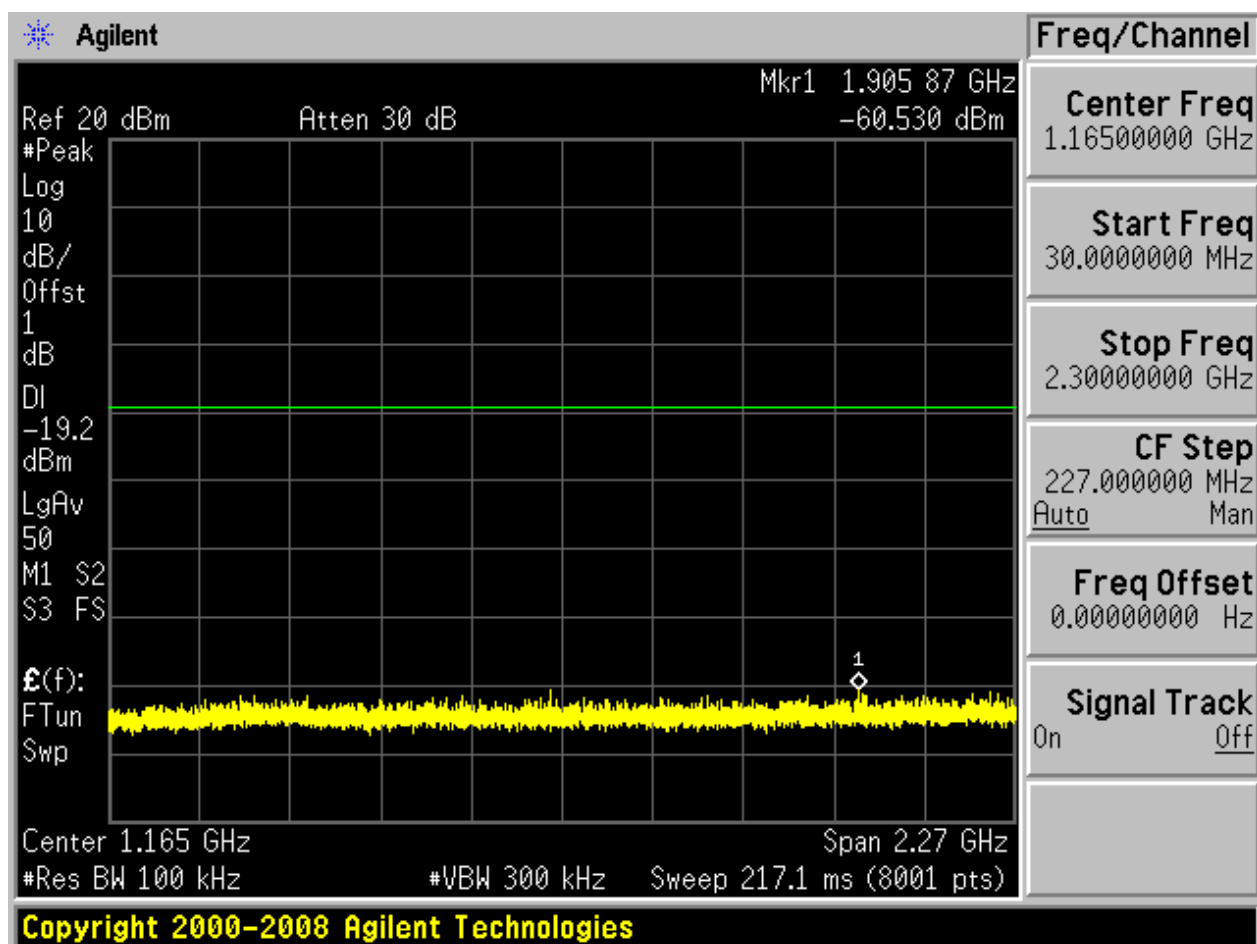


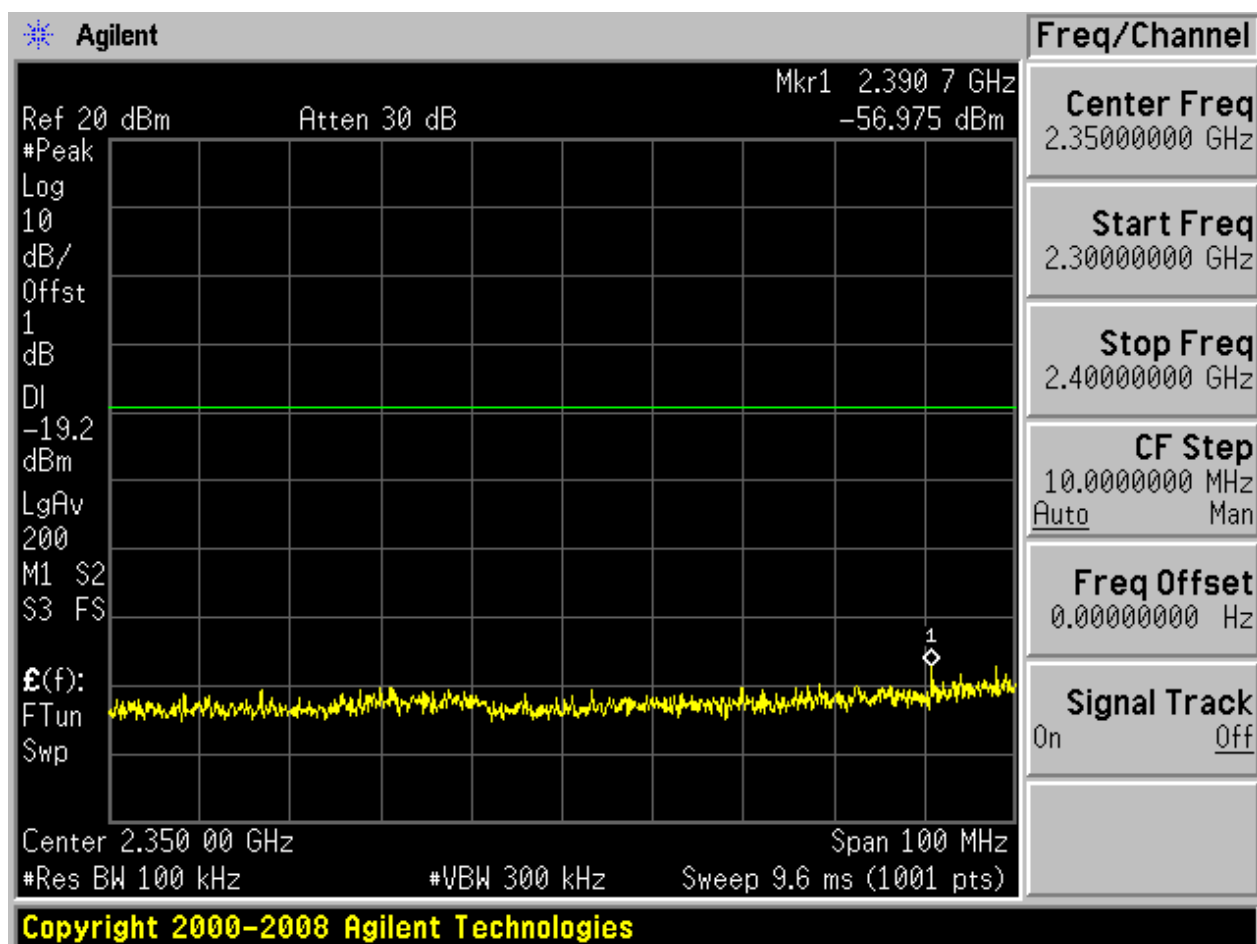


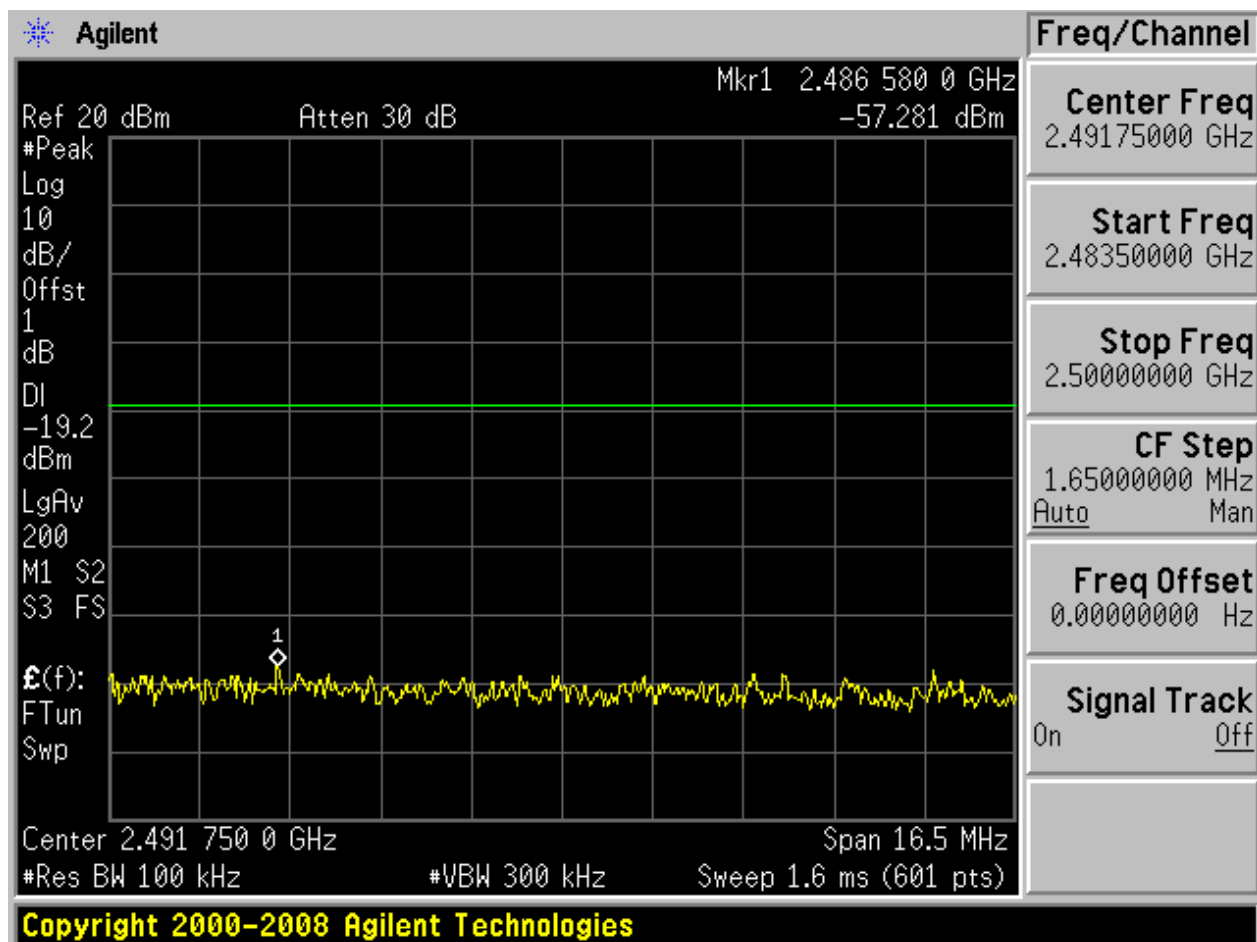
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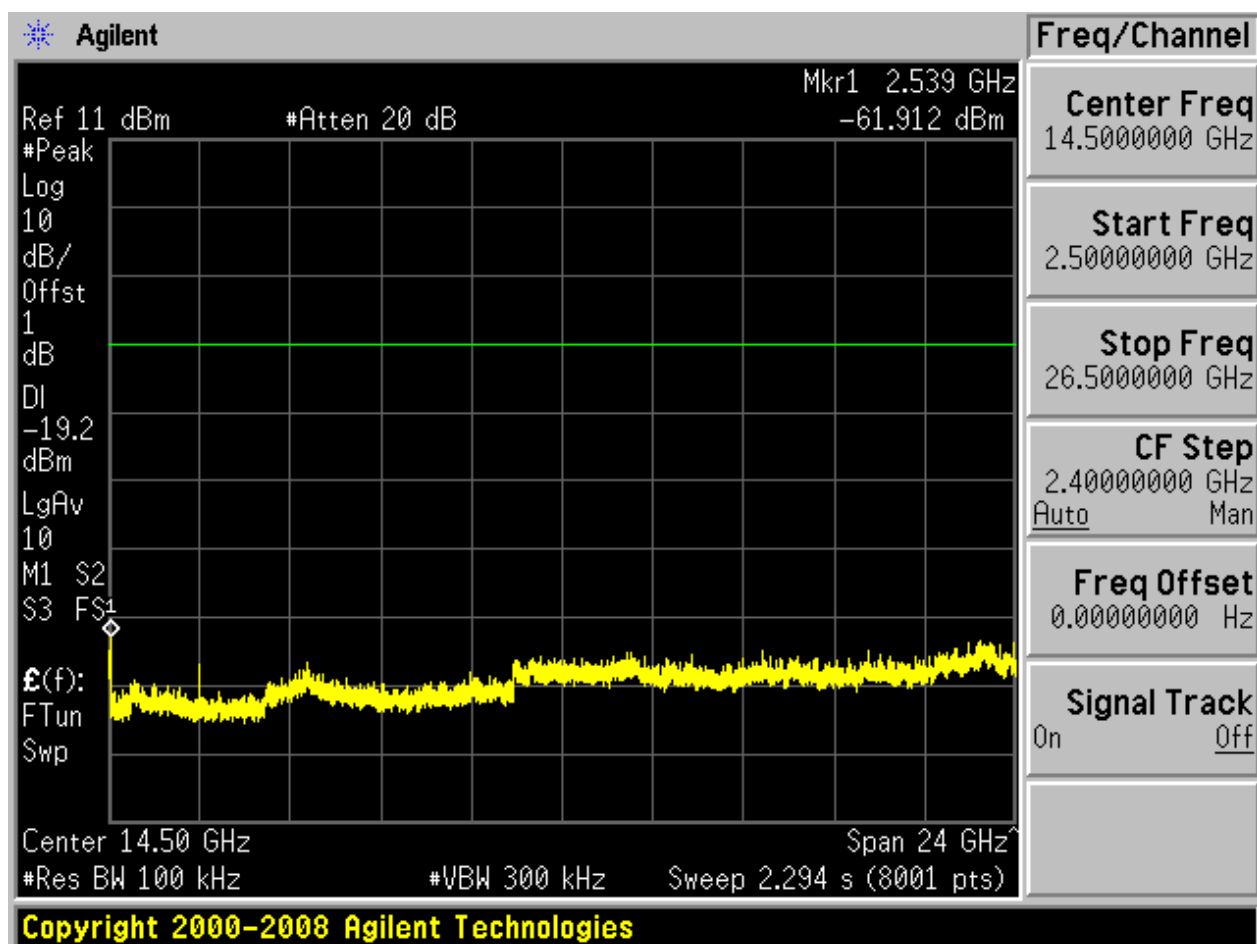








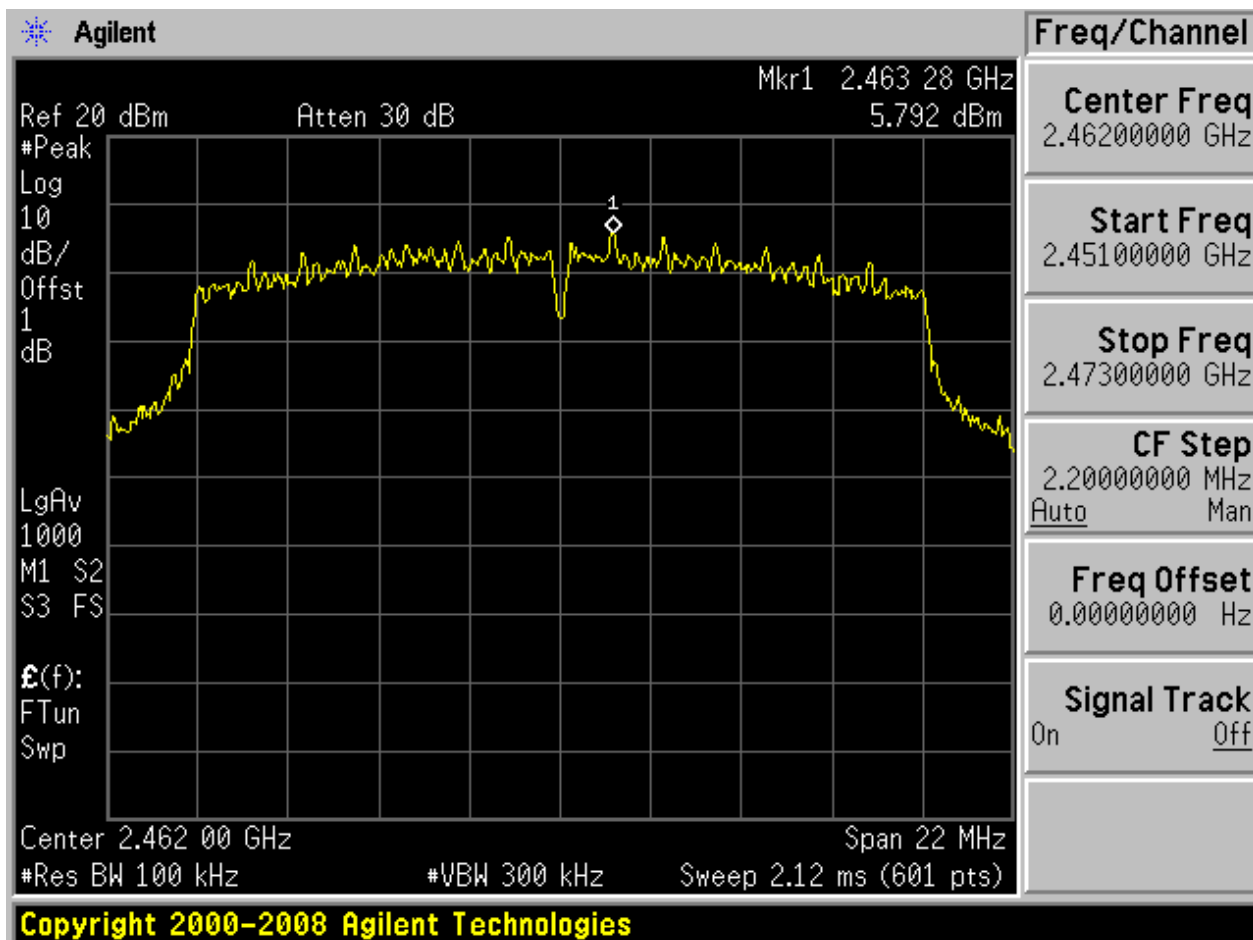






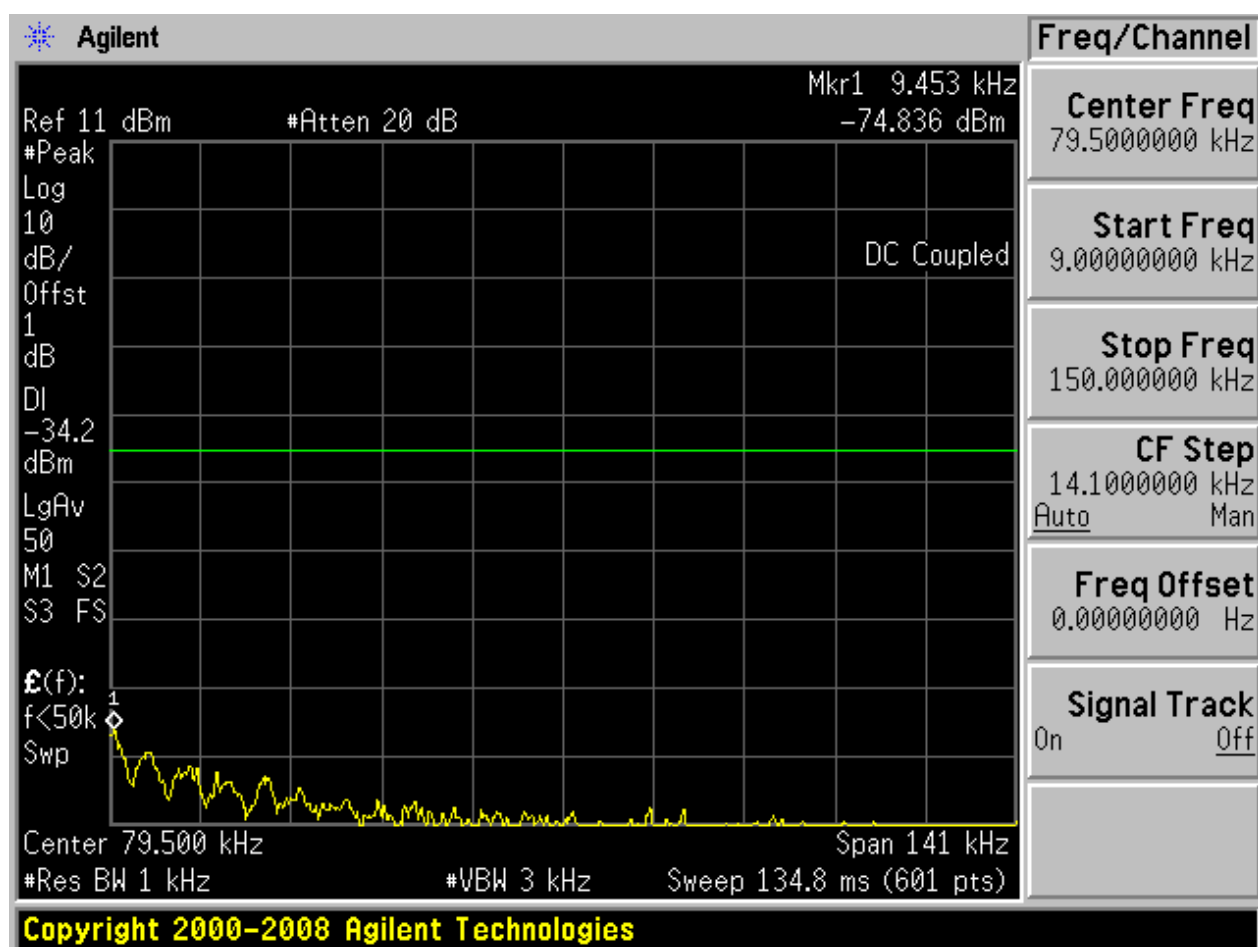
## 2.17 11N20\_H@BG1

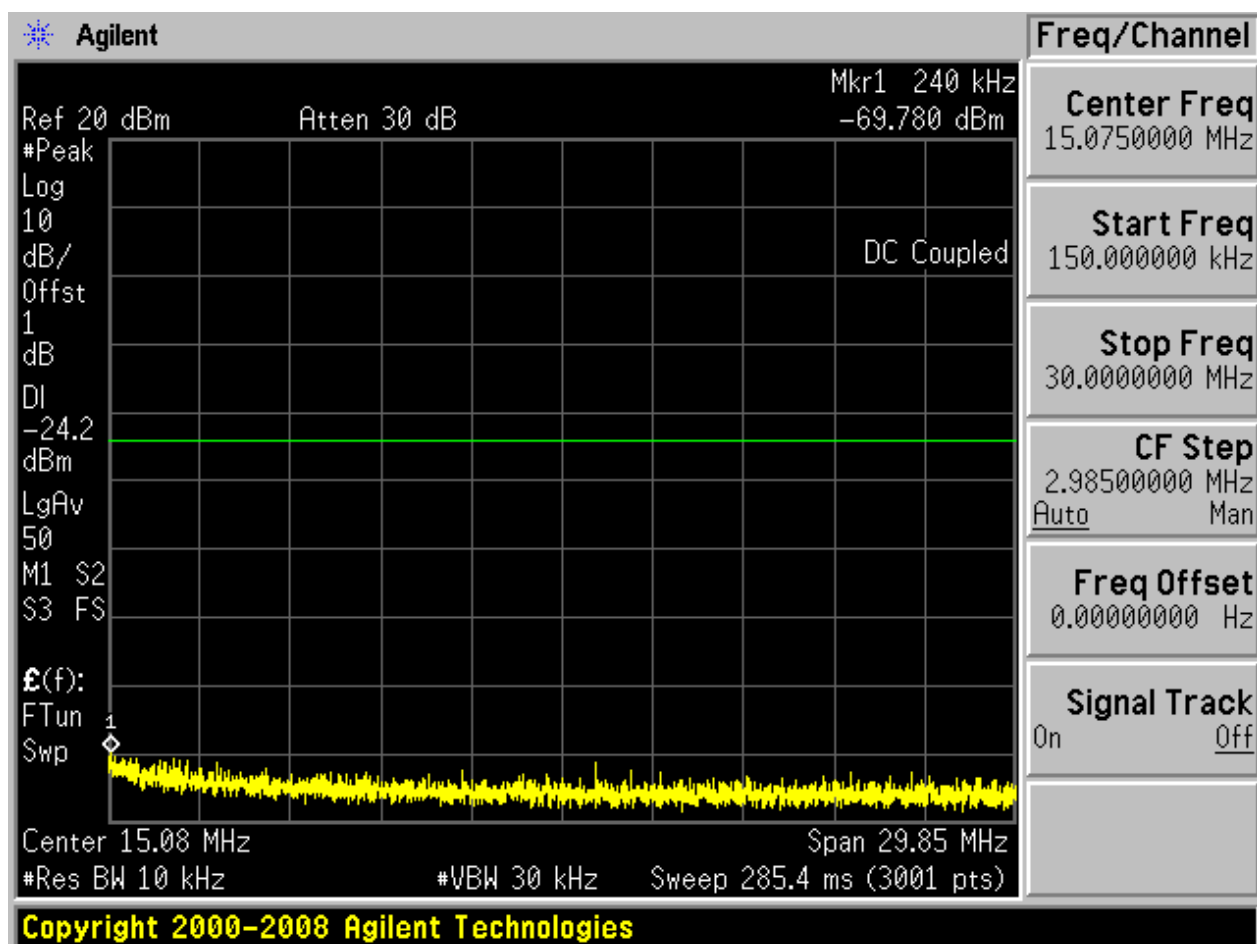
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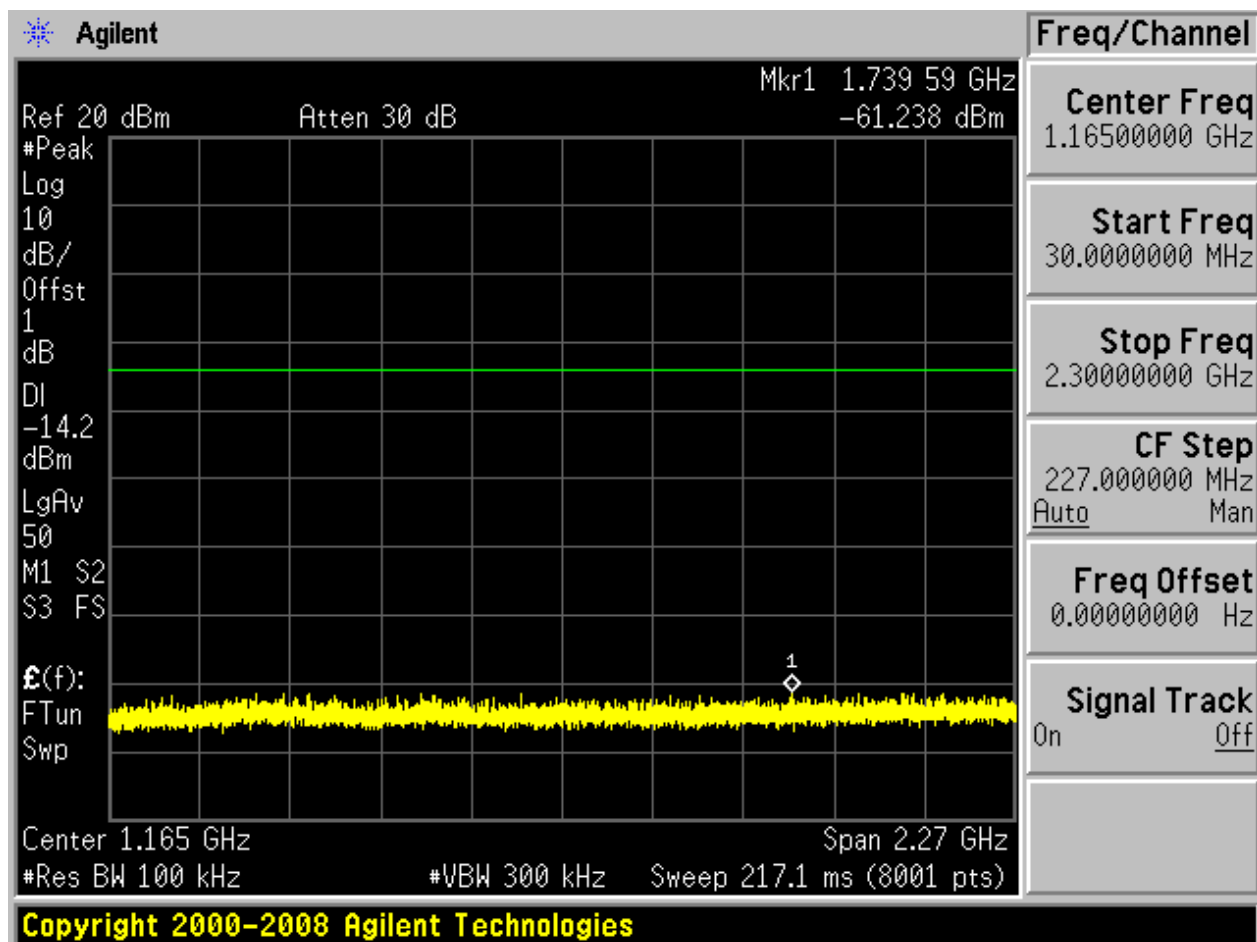


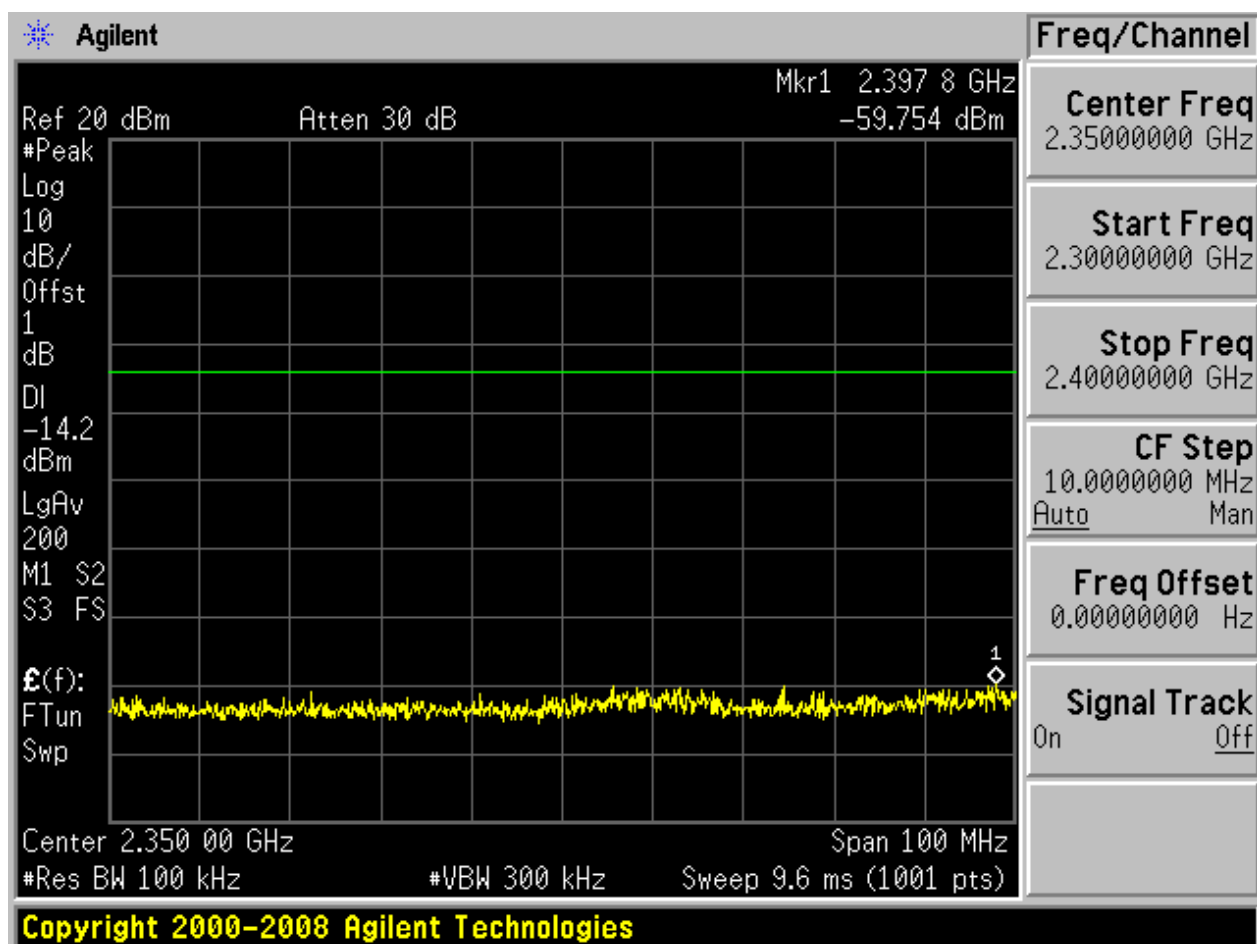


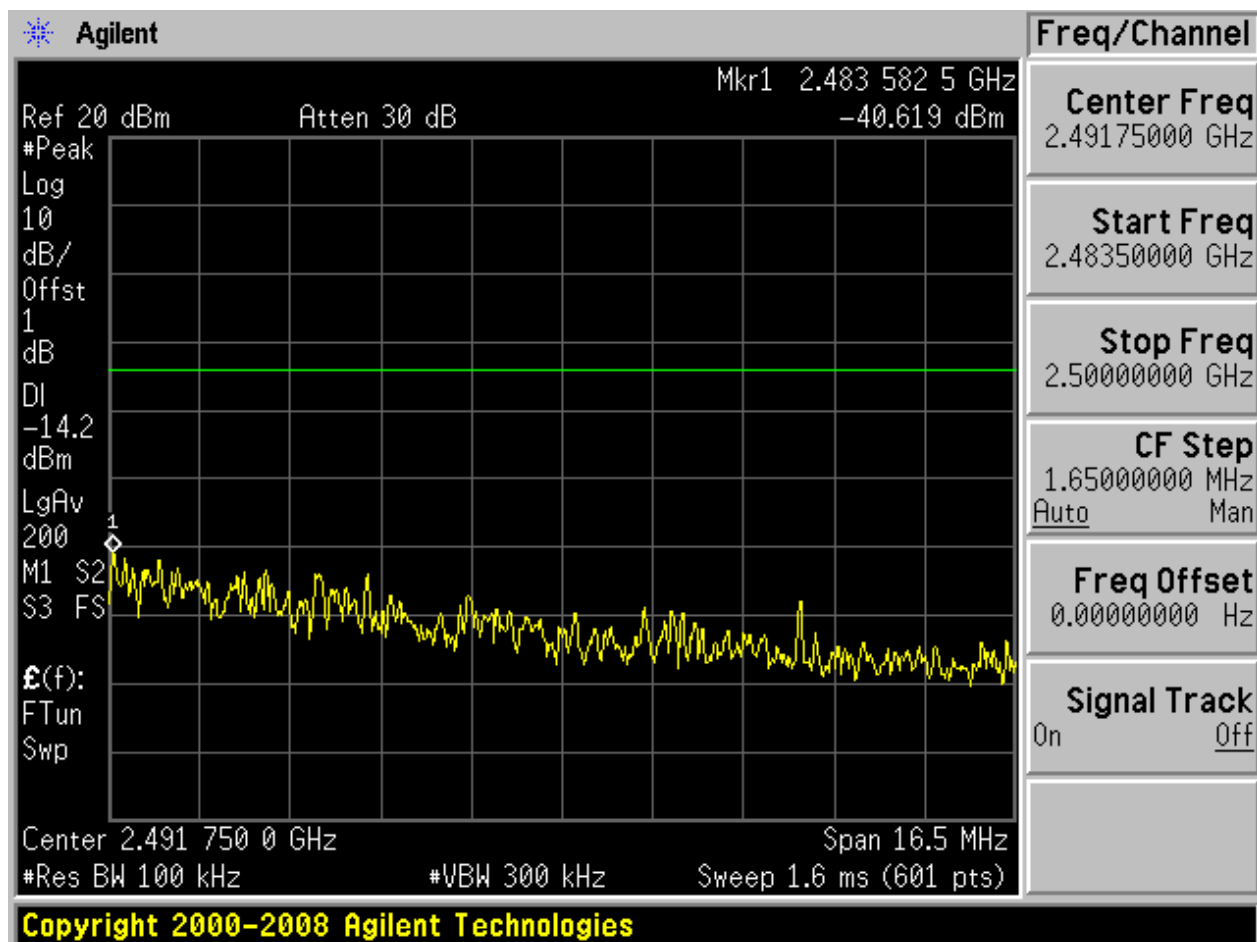
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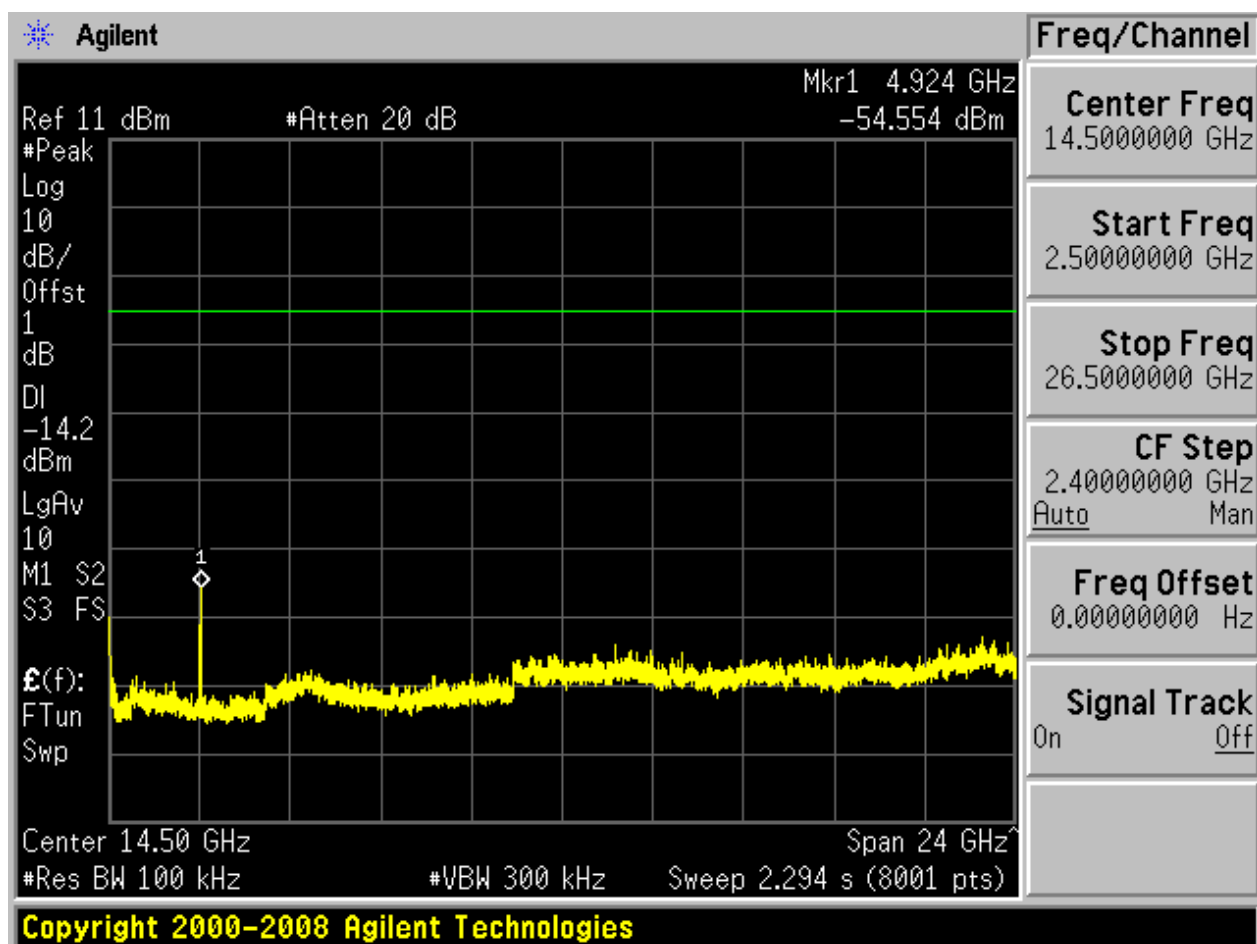








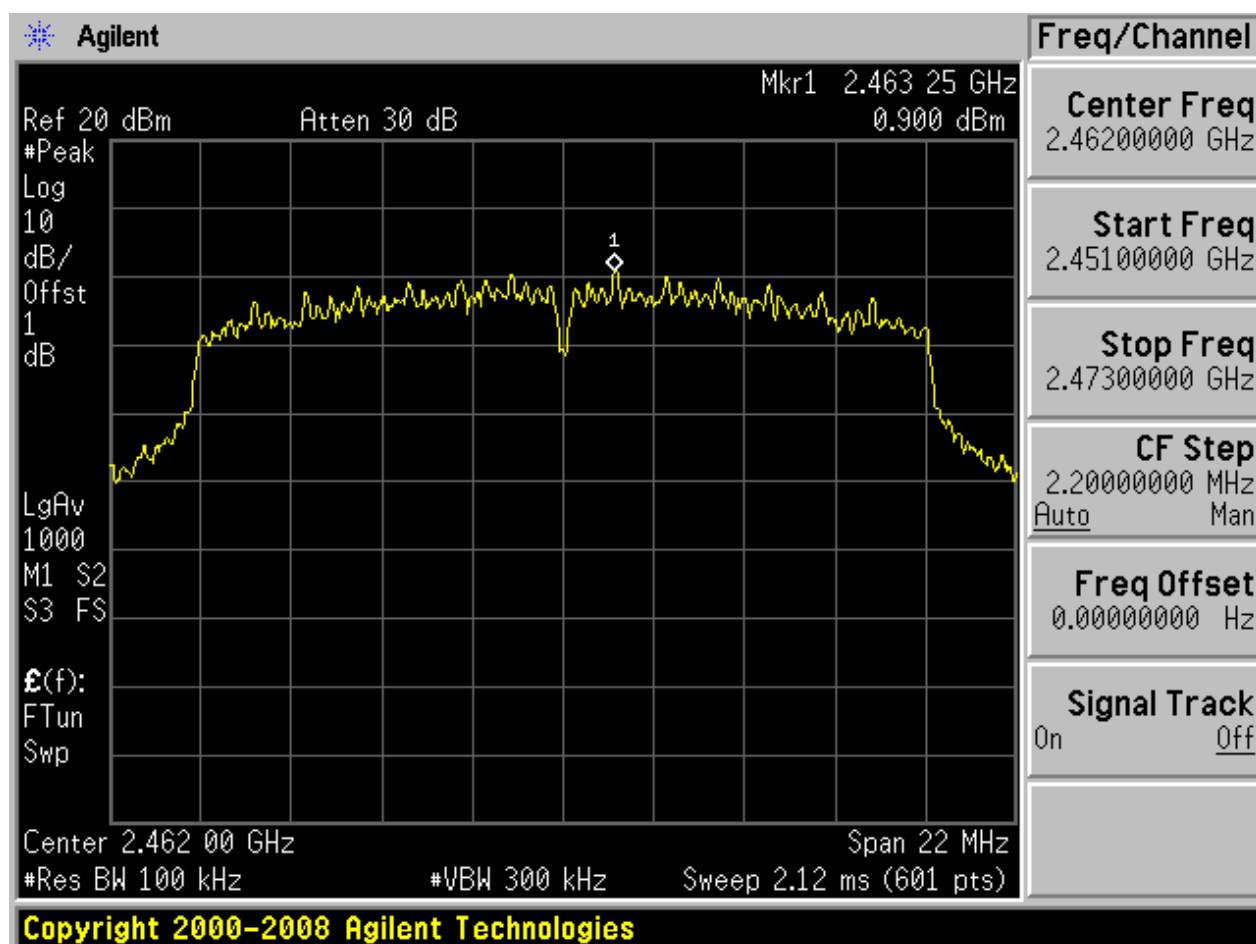






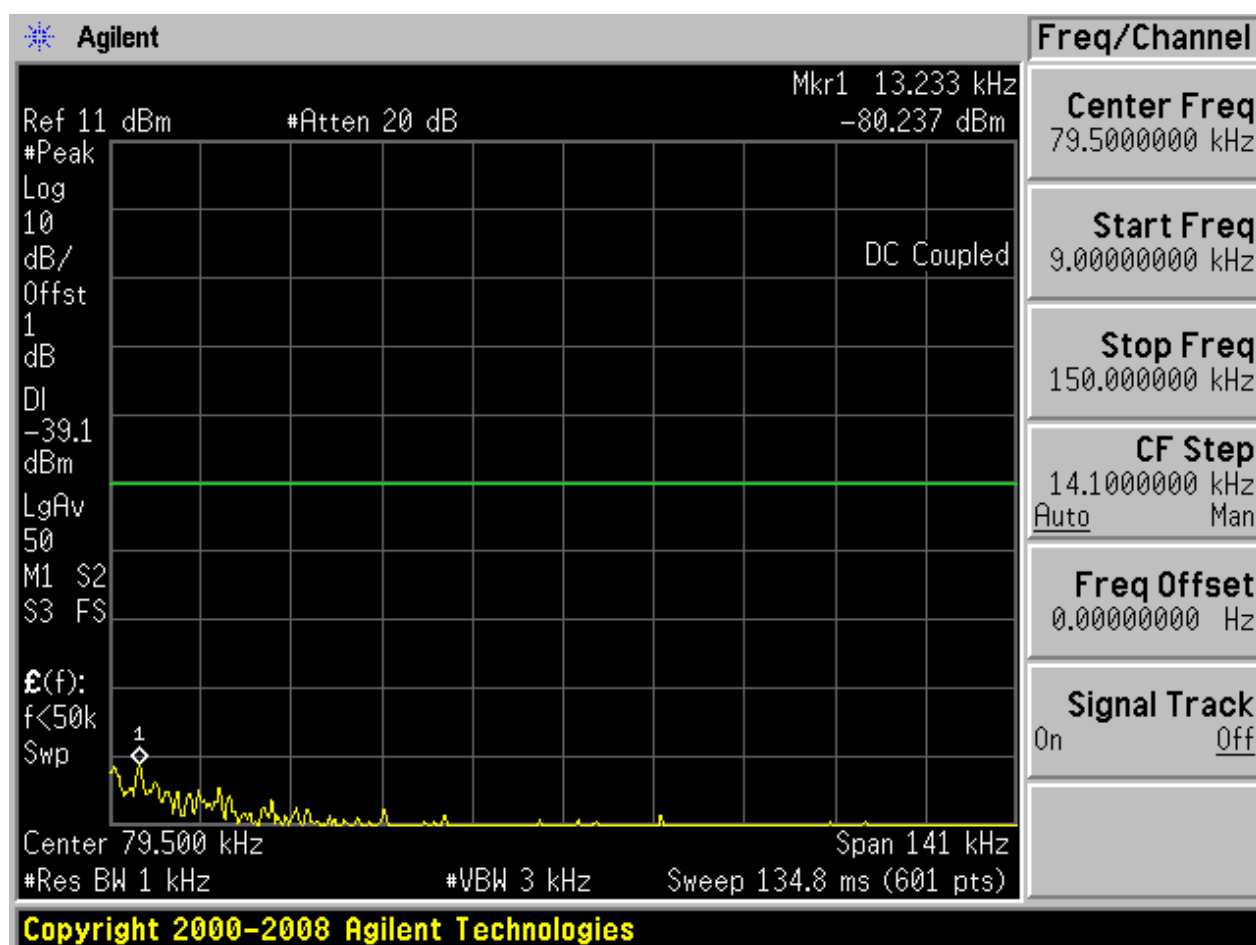
## 2.18 11N20\_H@BG2

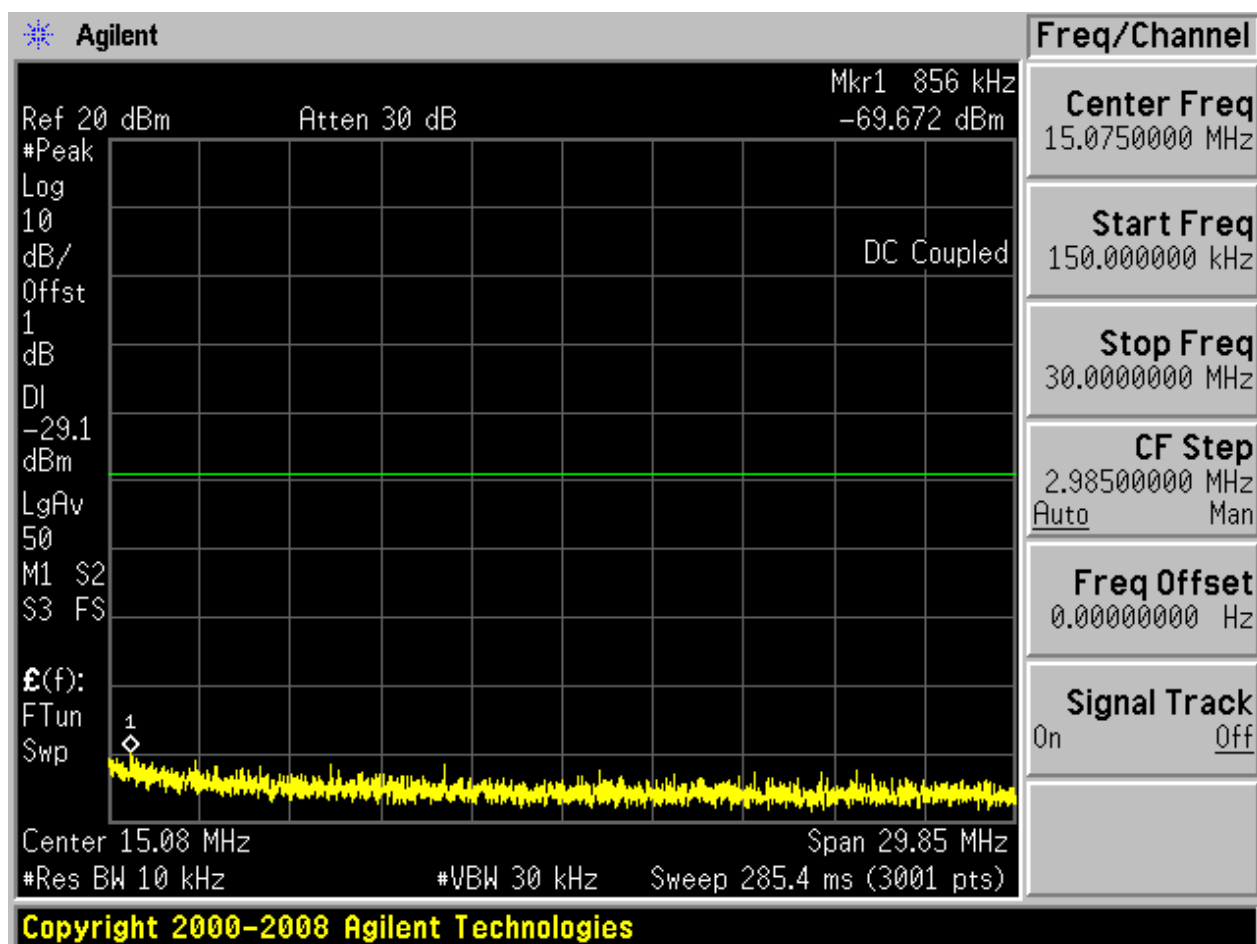
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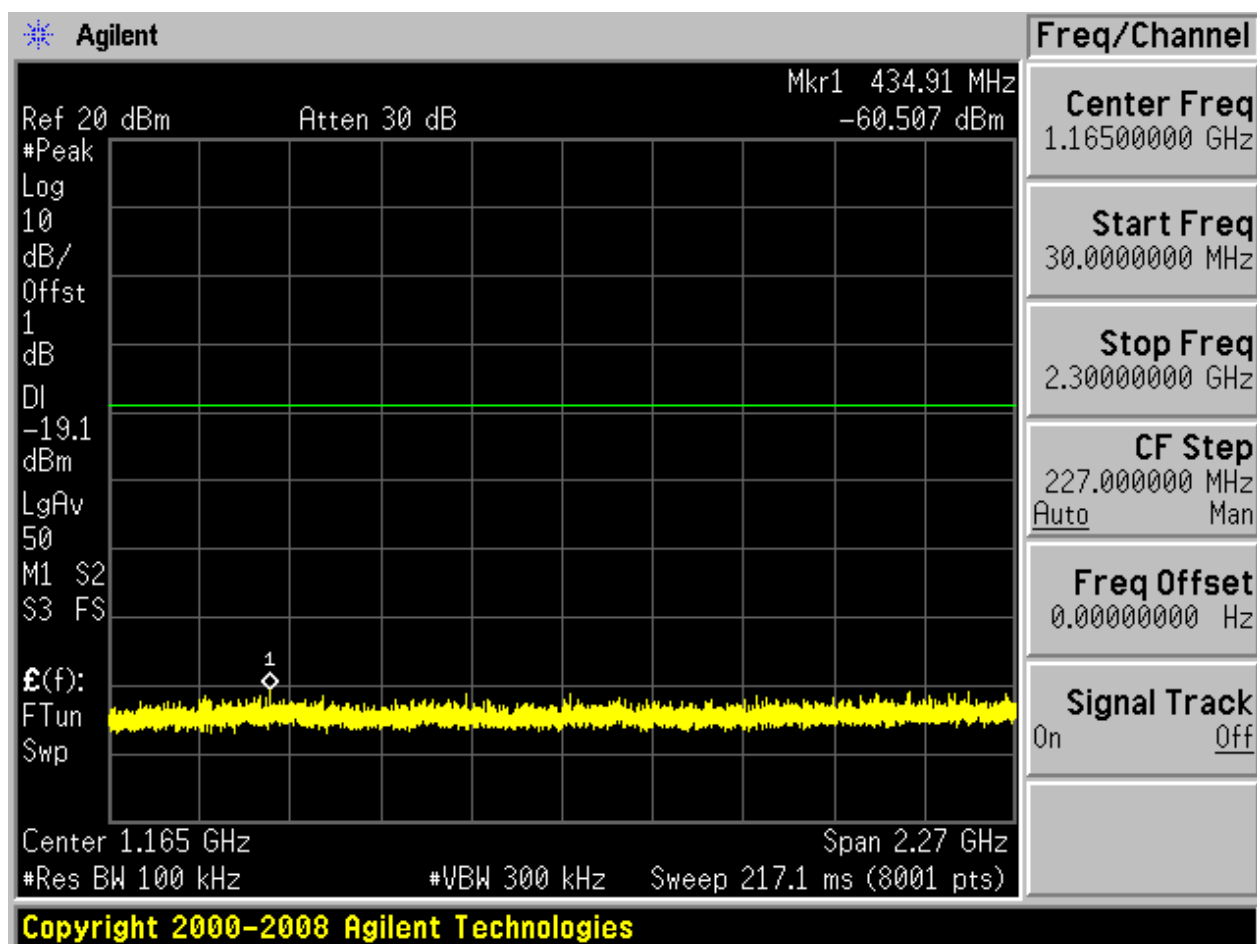


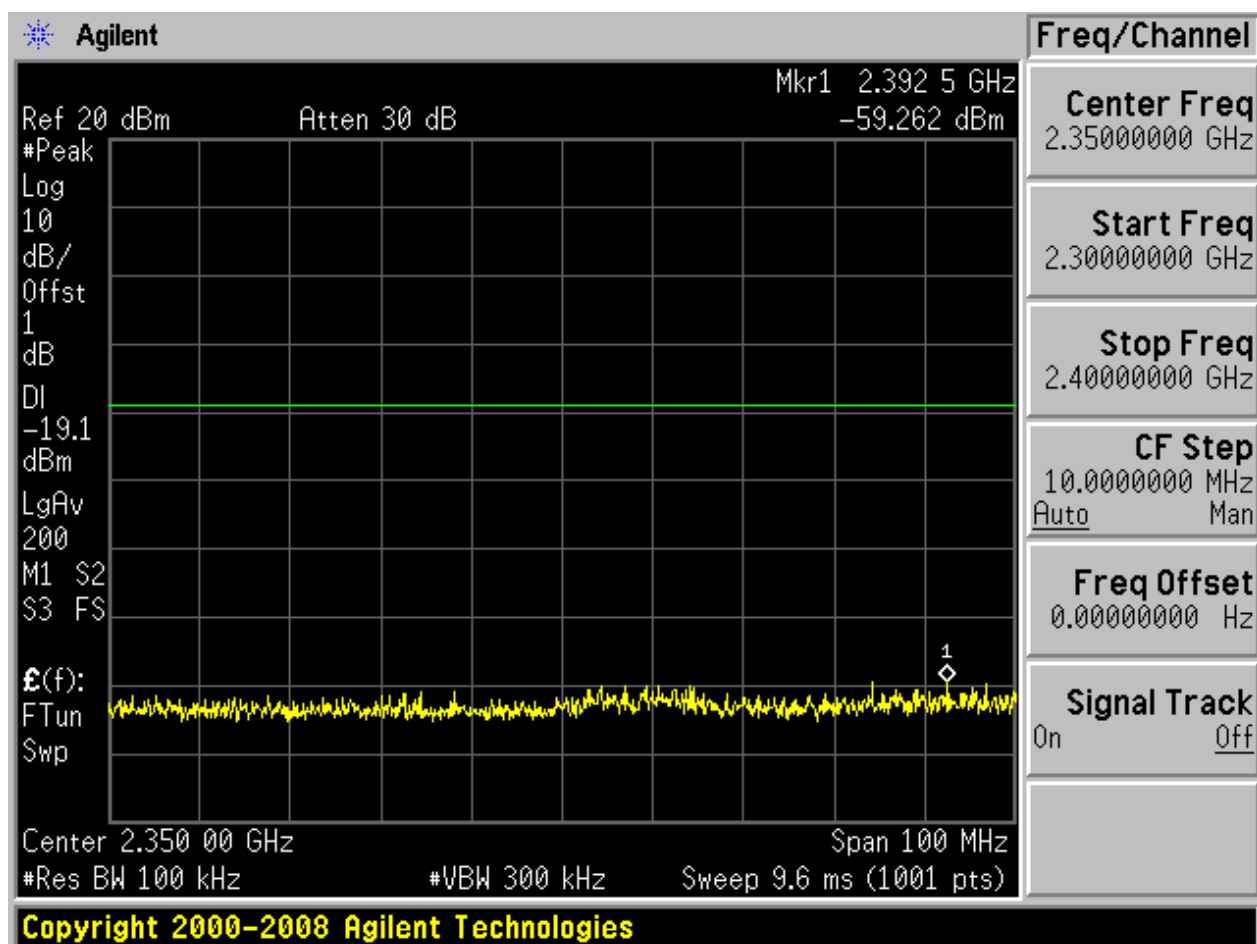


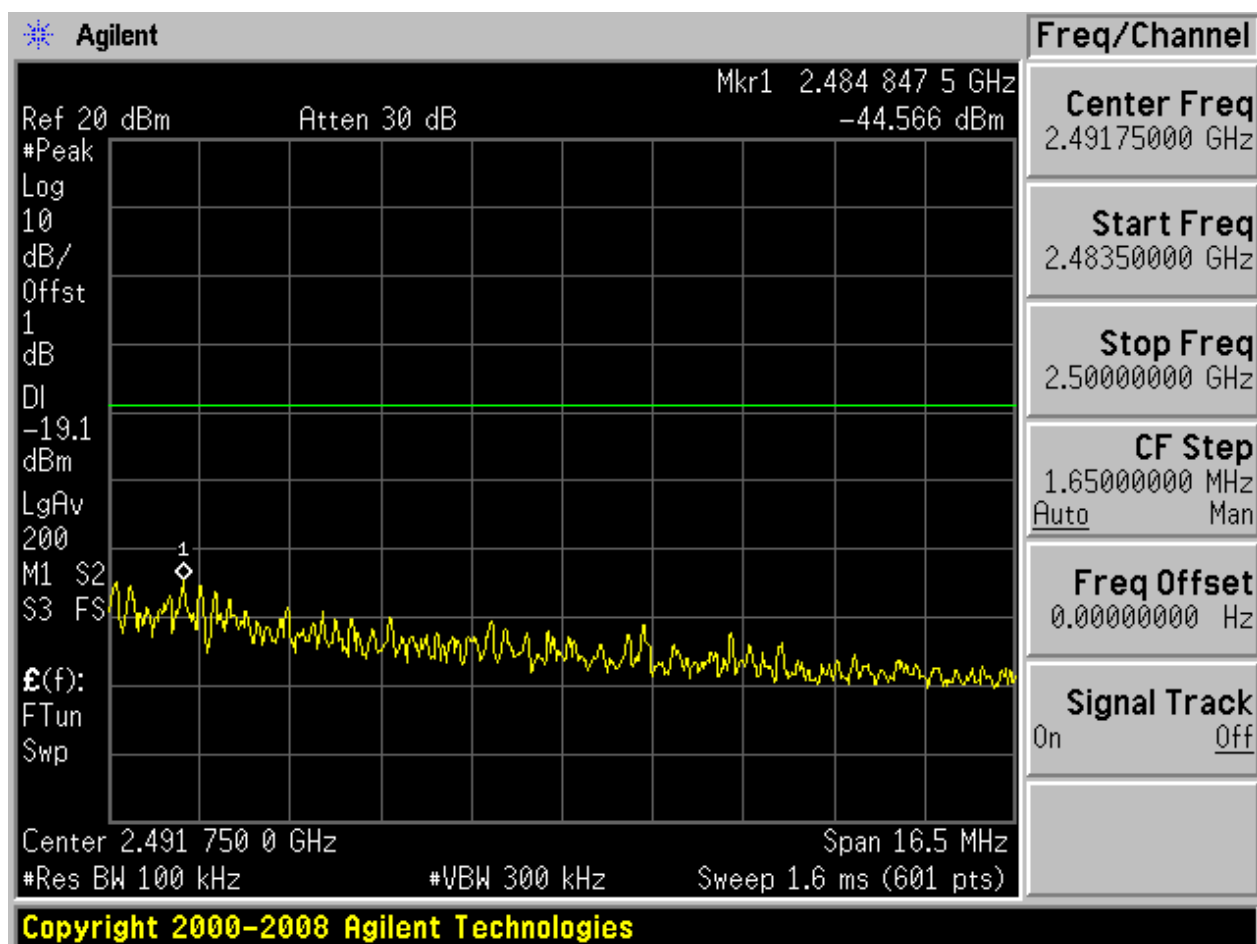
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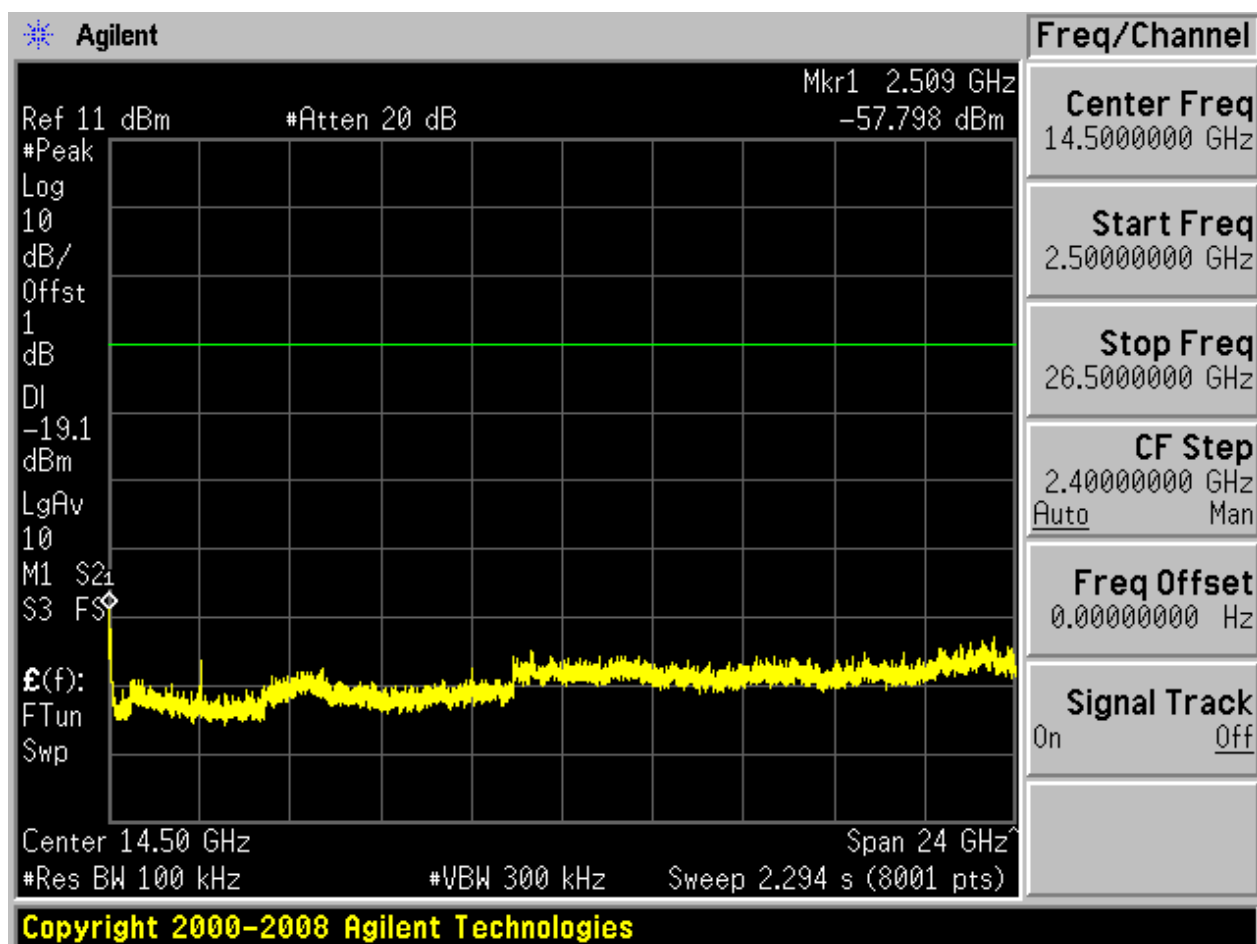










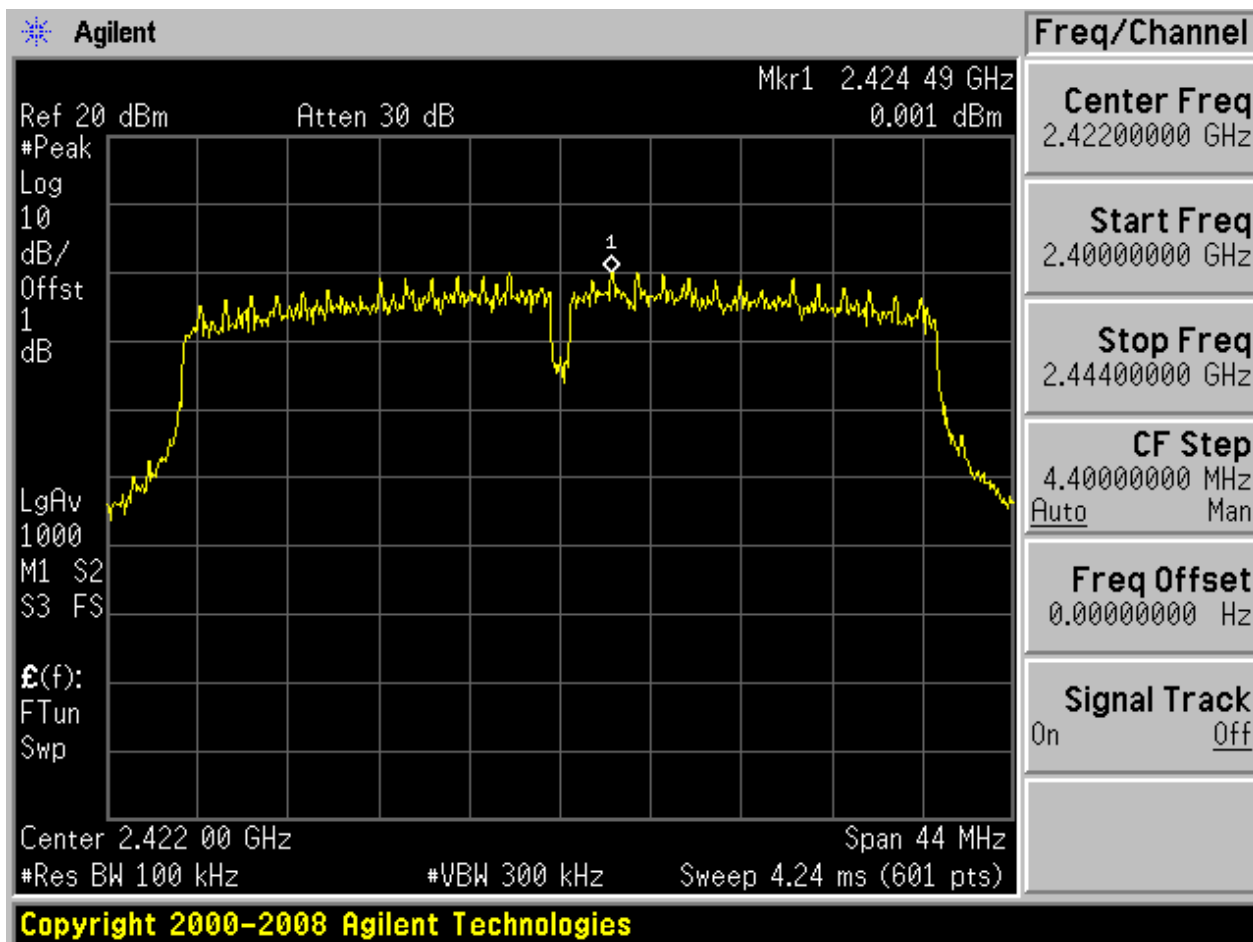






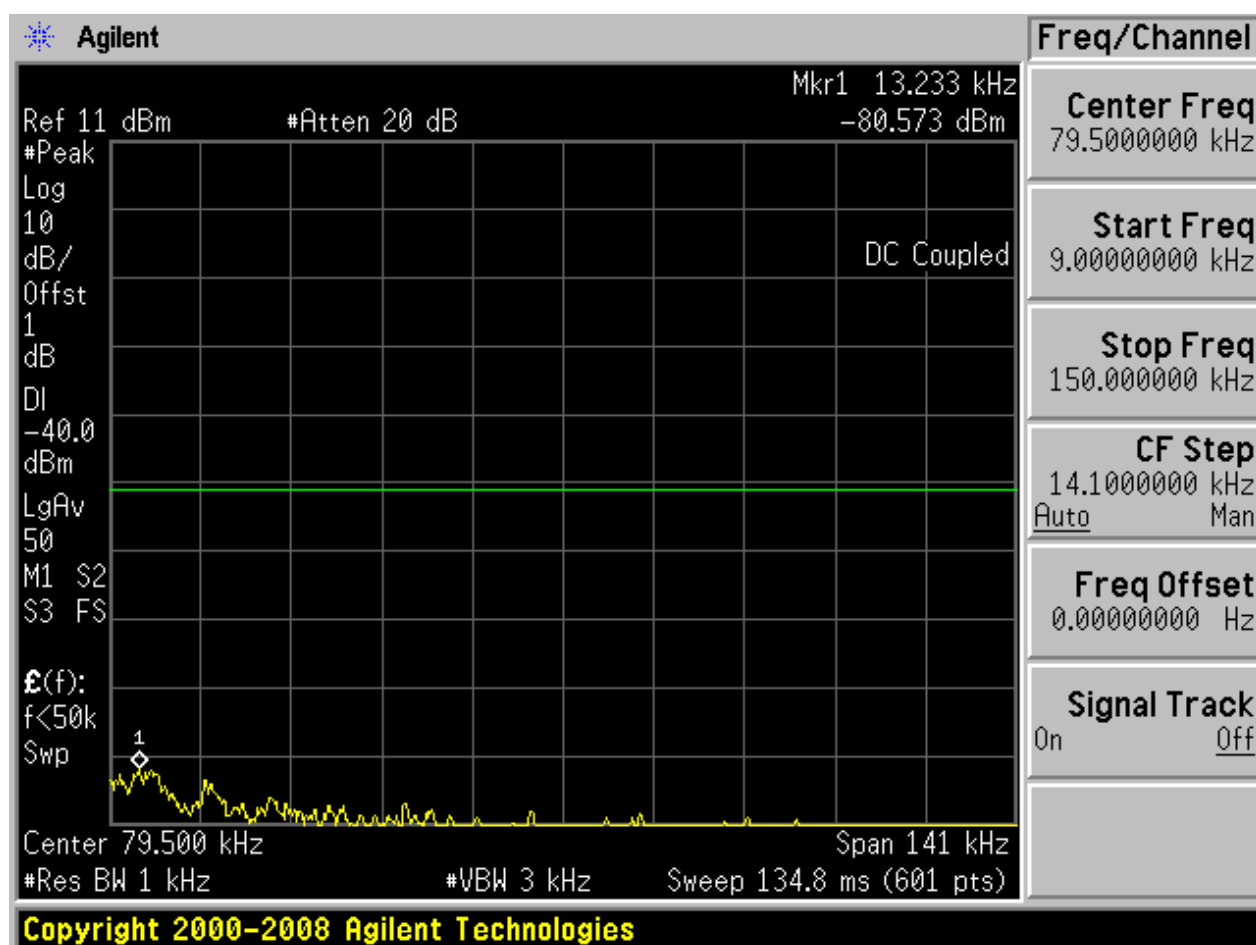
## 2.19 11N40\_L@BG1

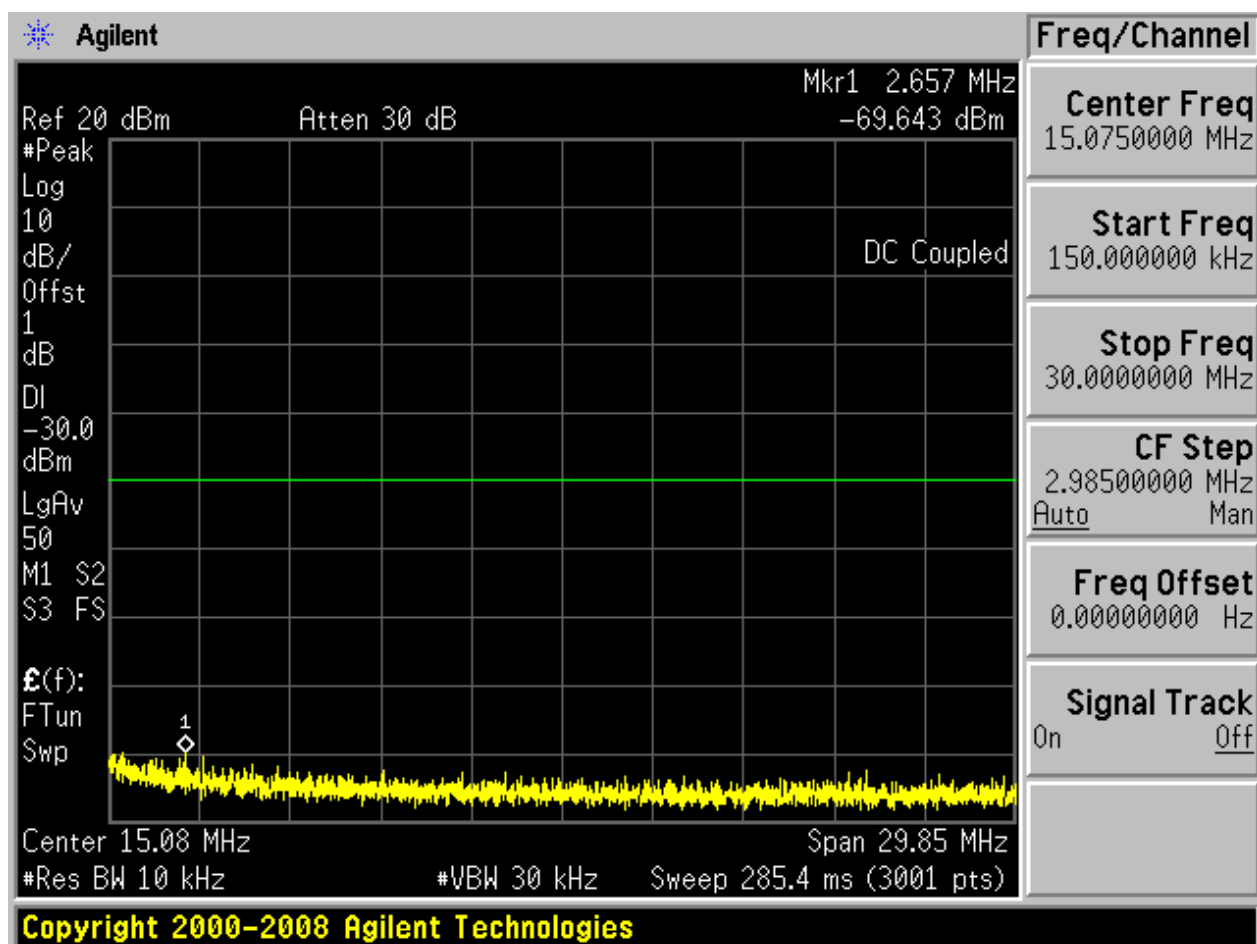
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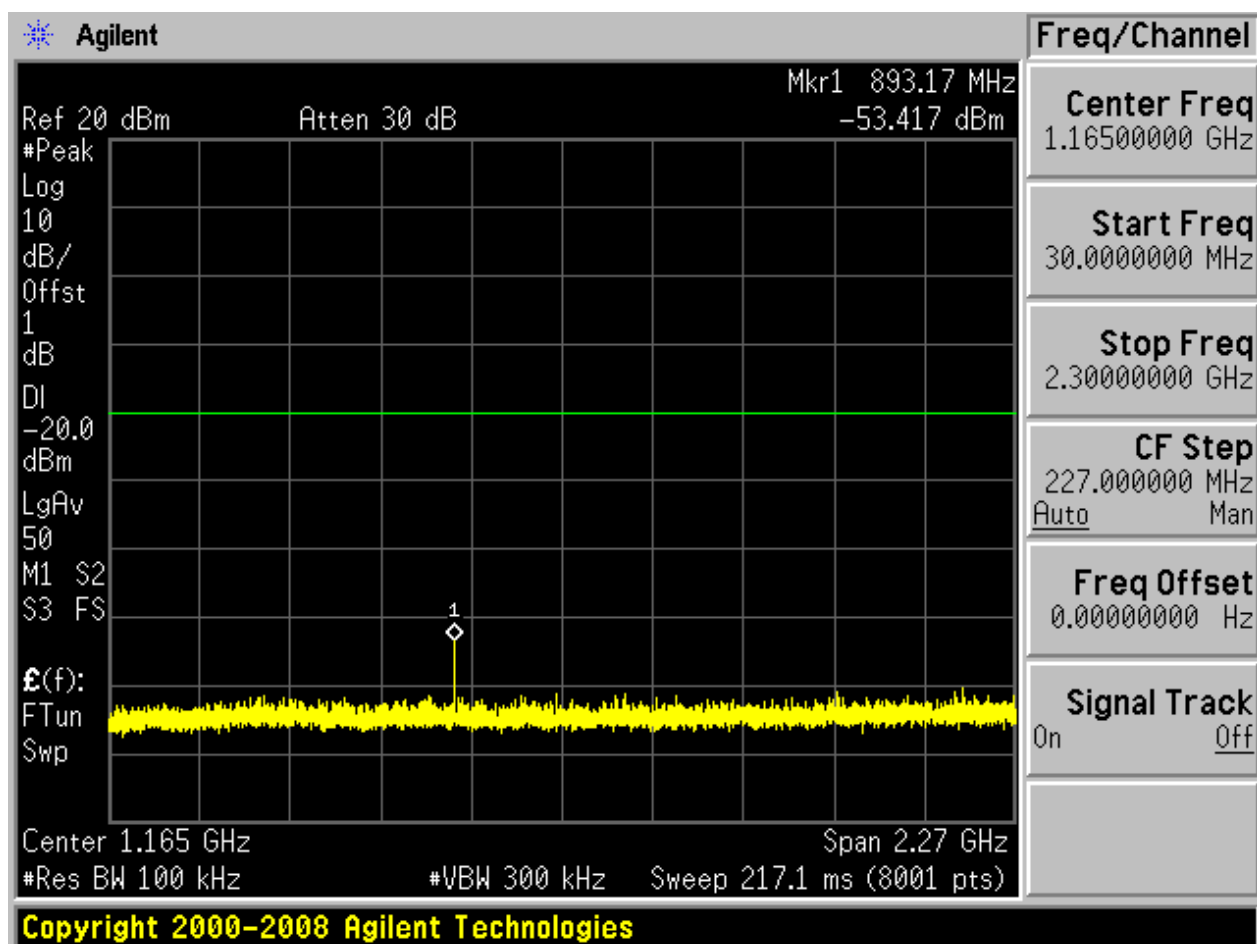


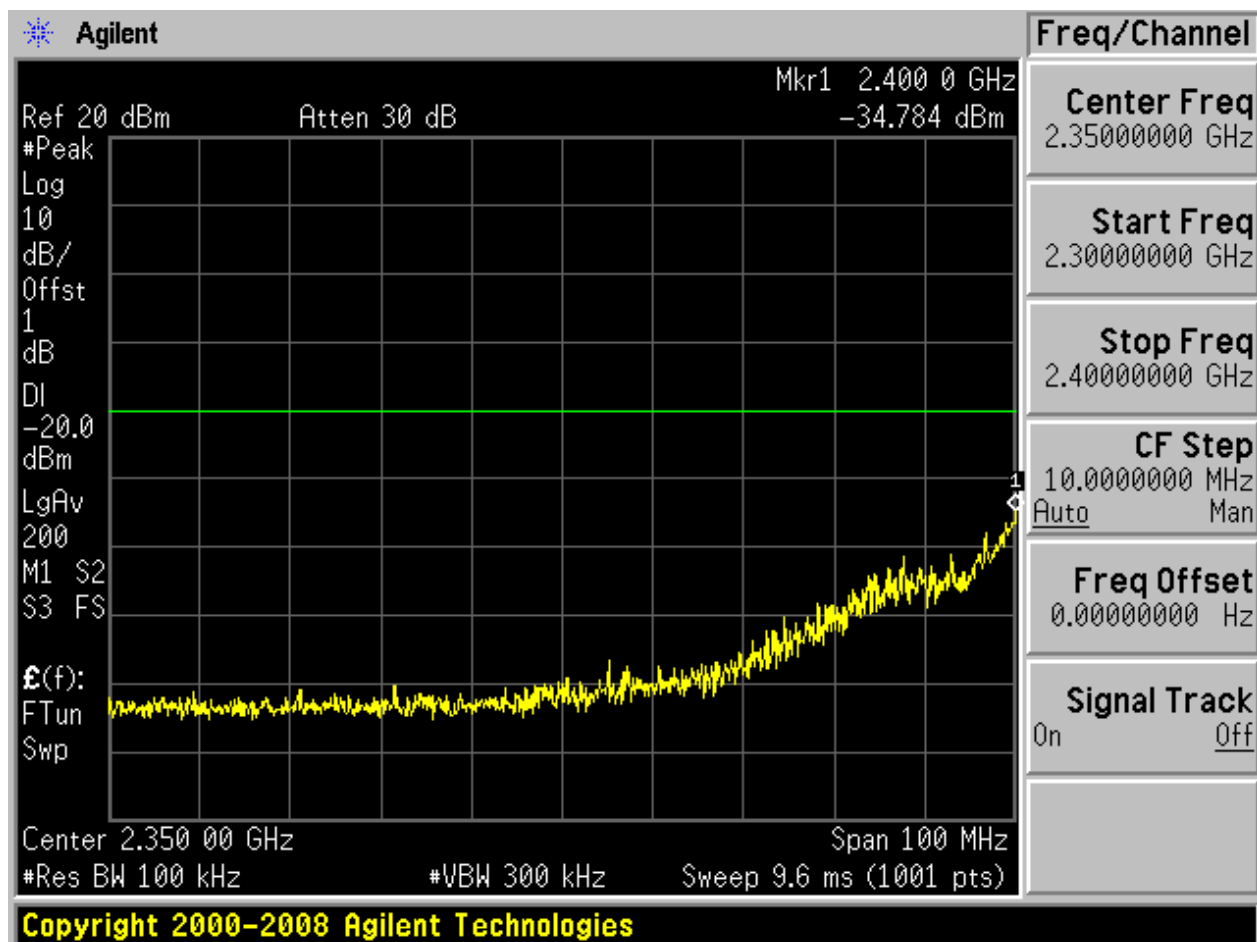


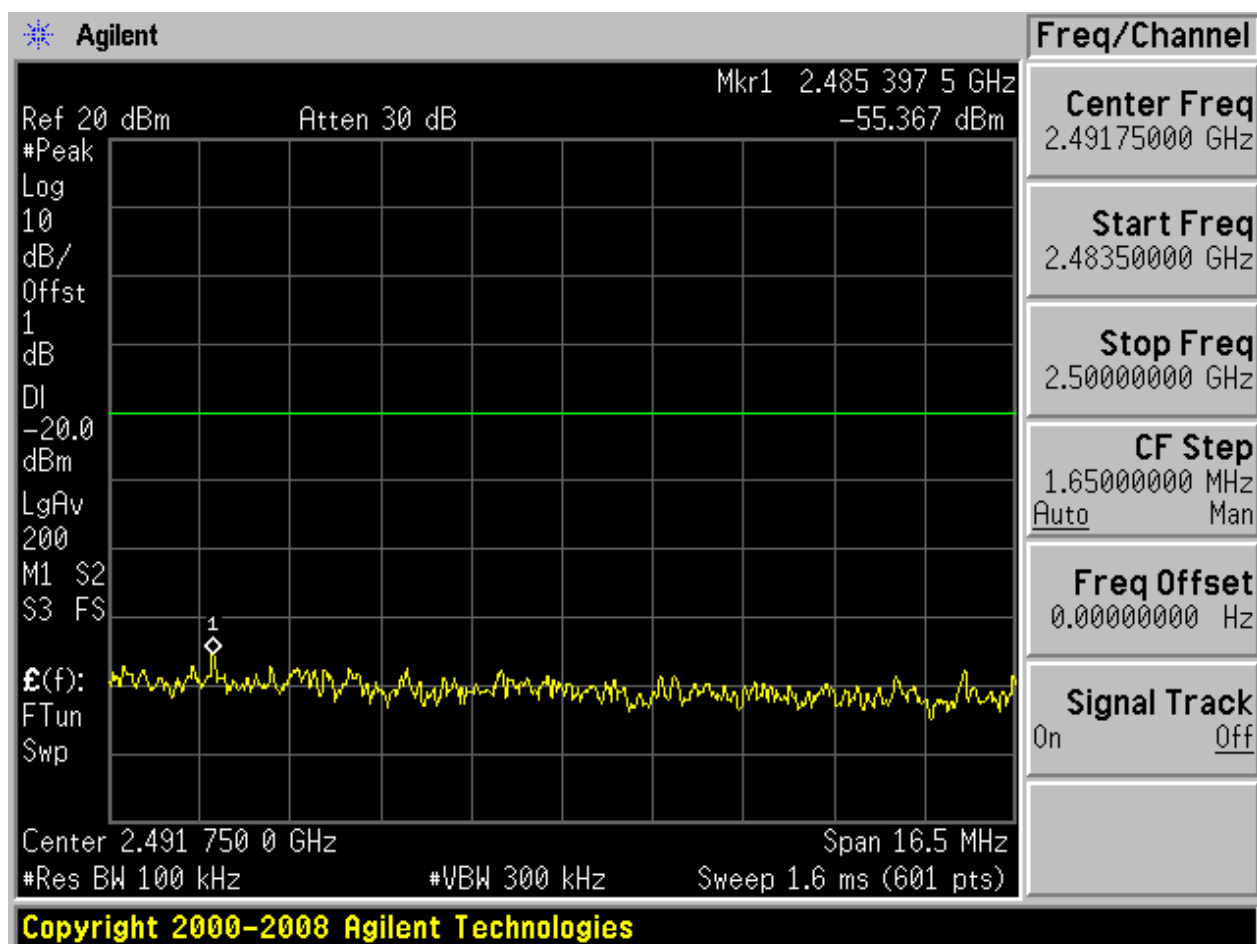
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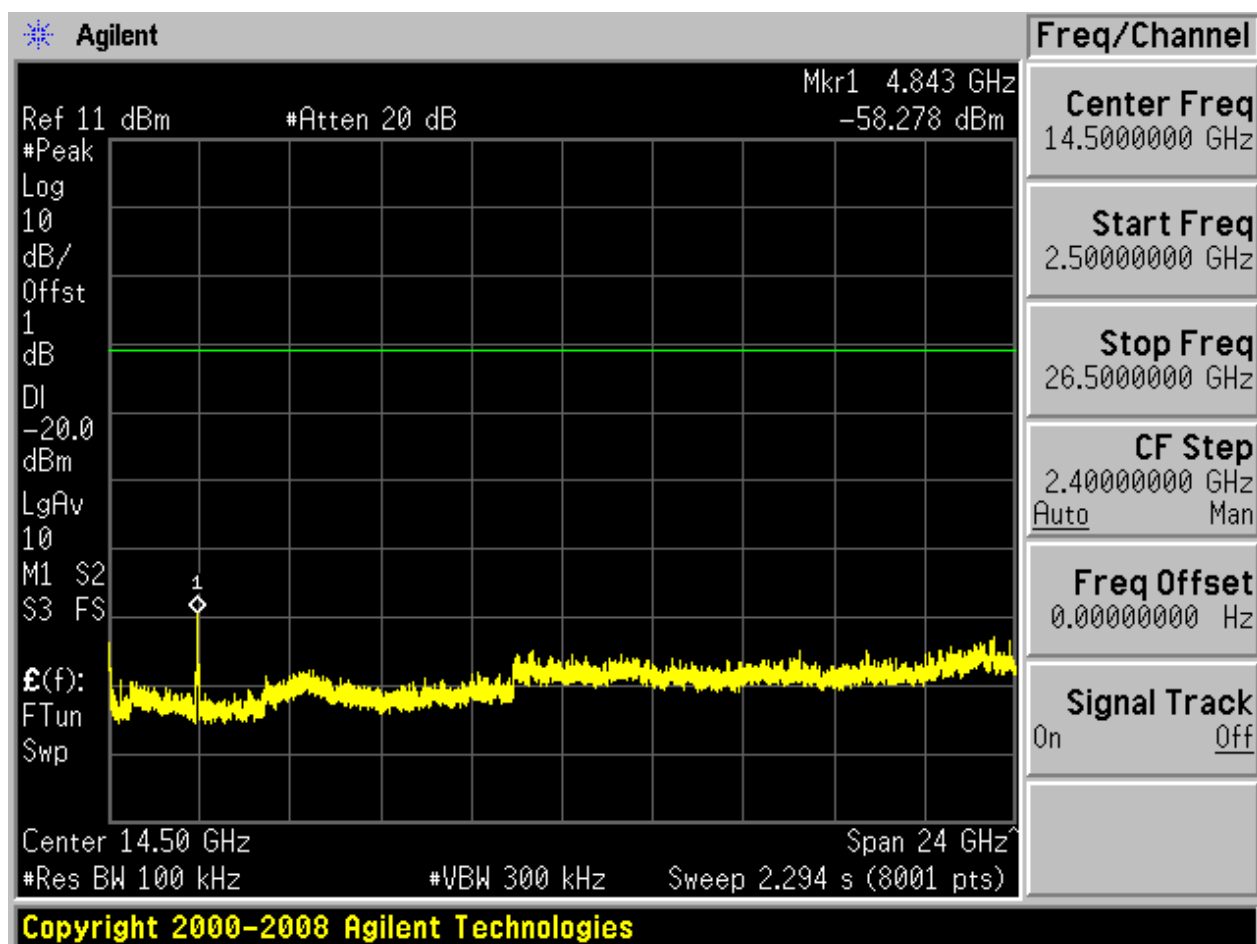








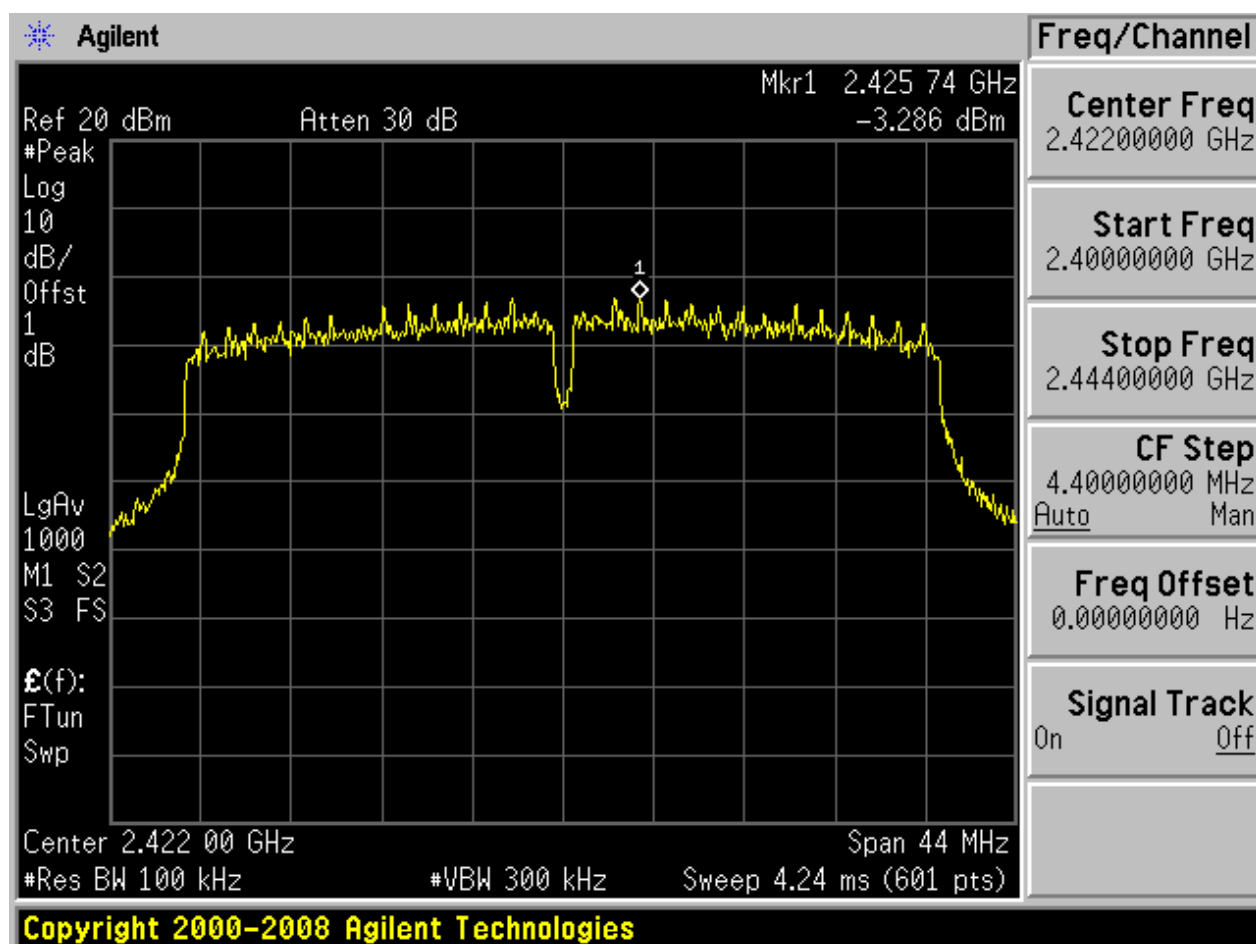






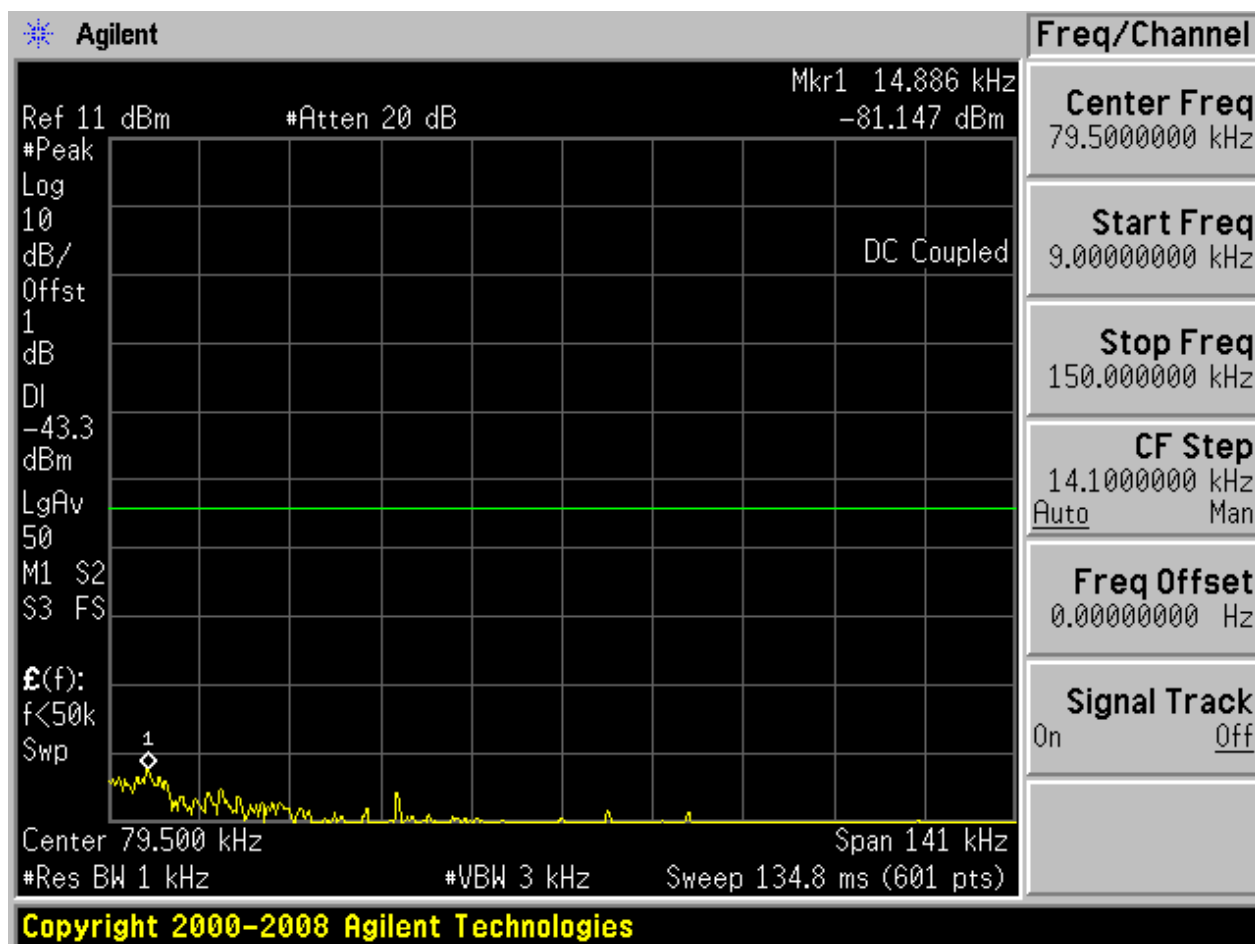
## 2.20 11N40\_L@BG2

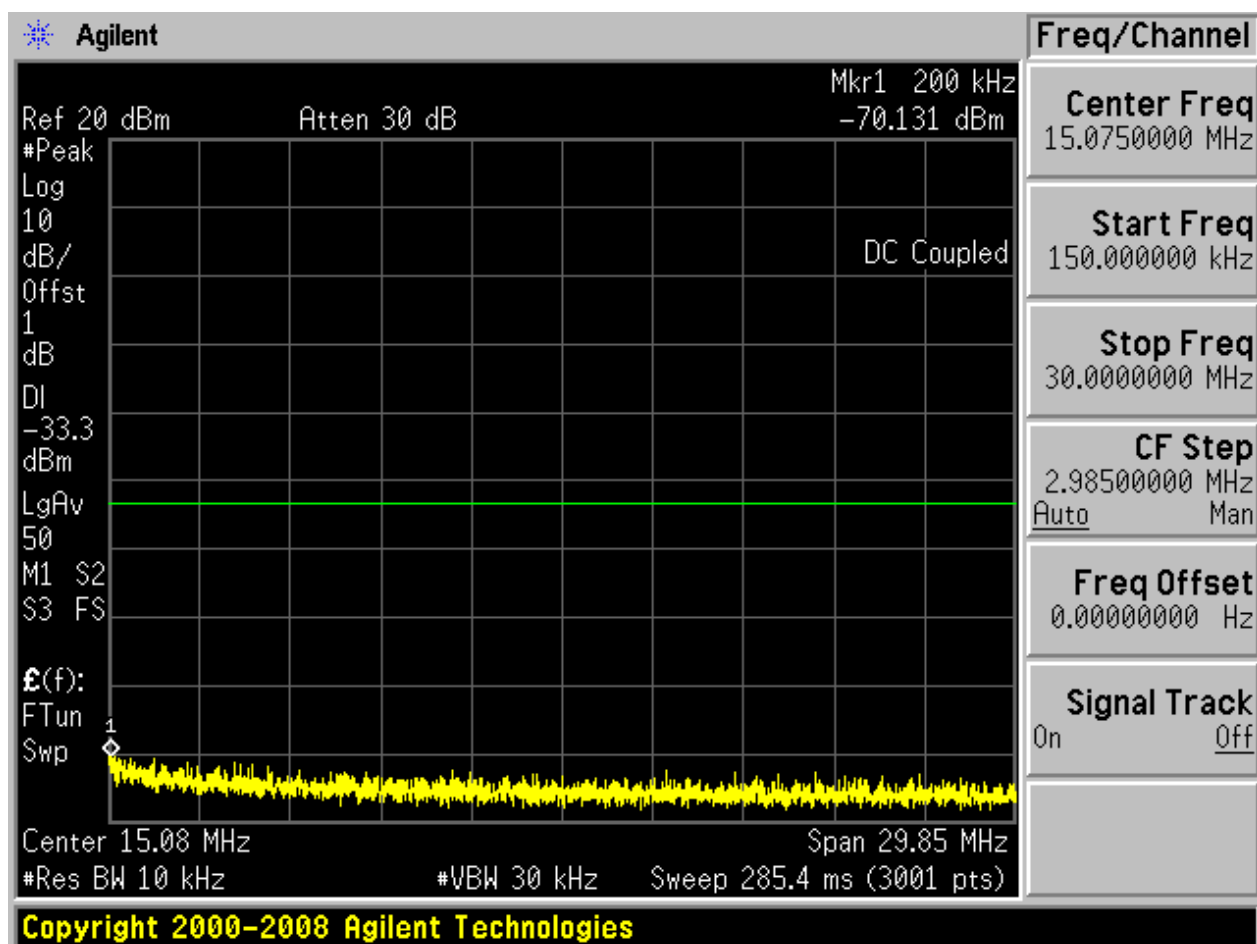
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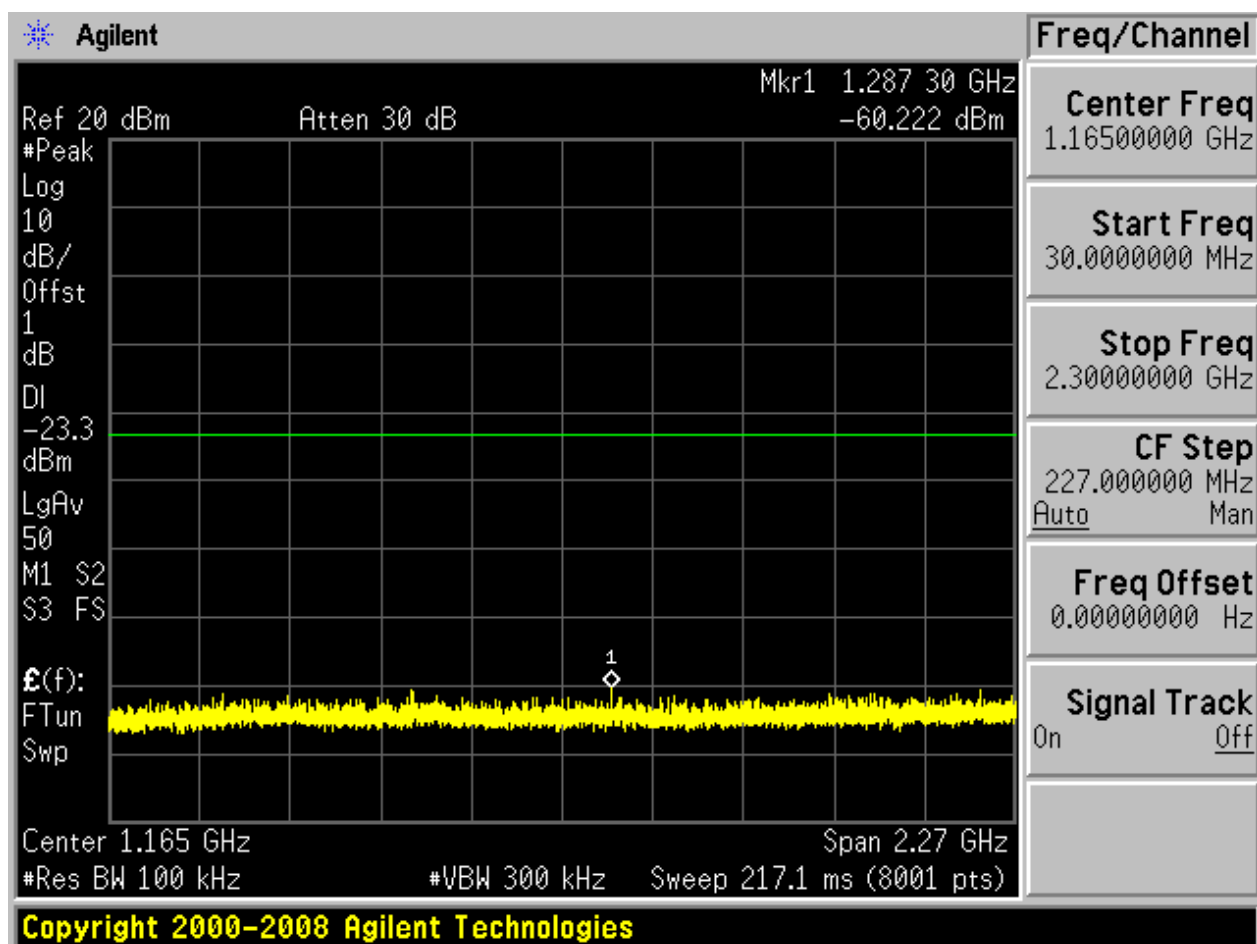


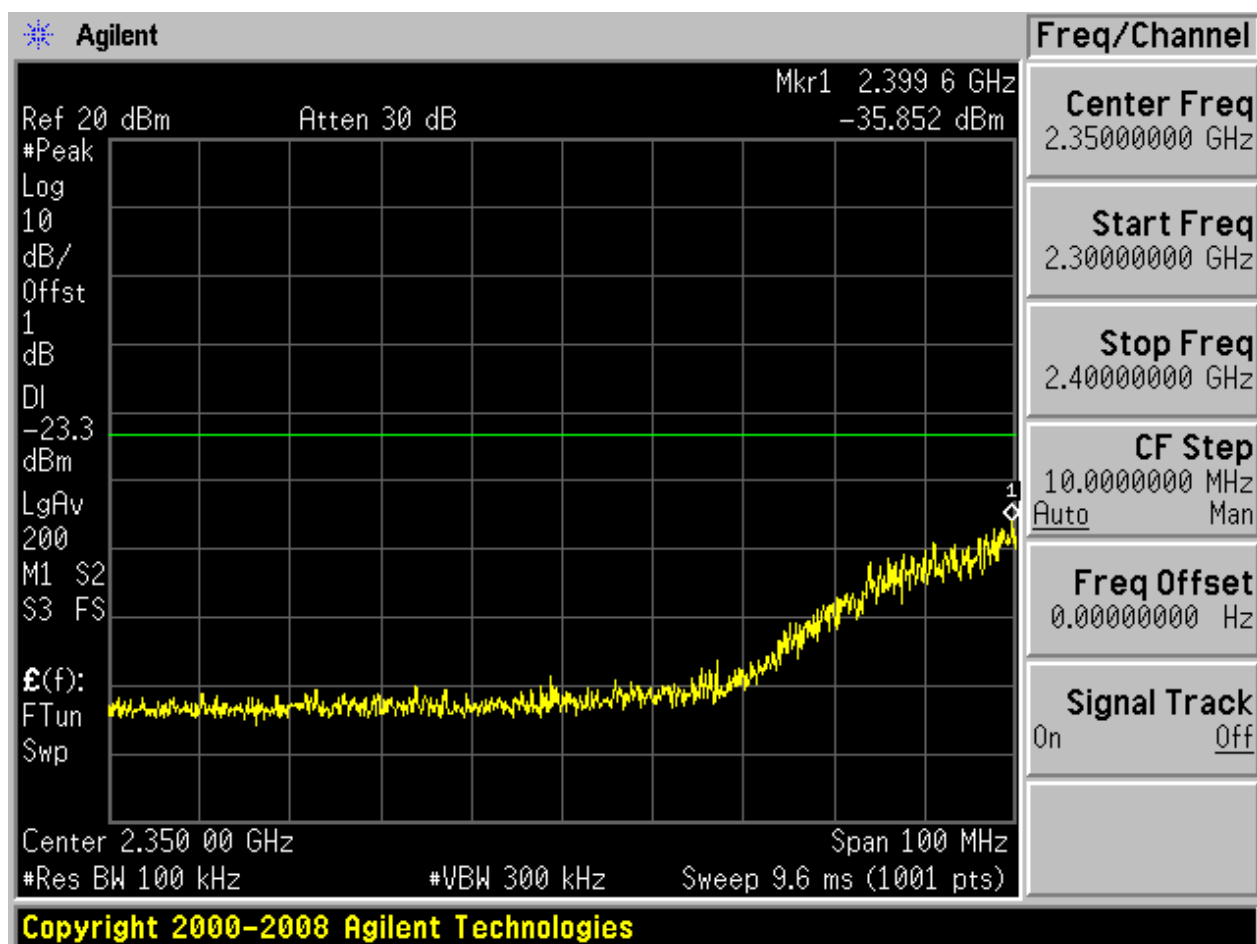


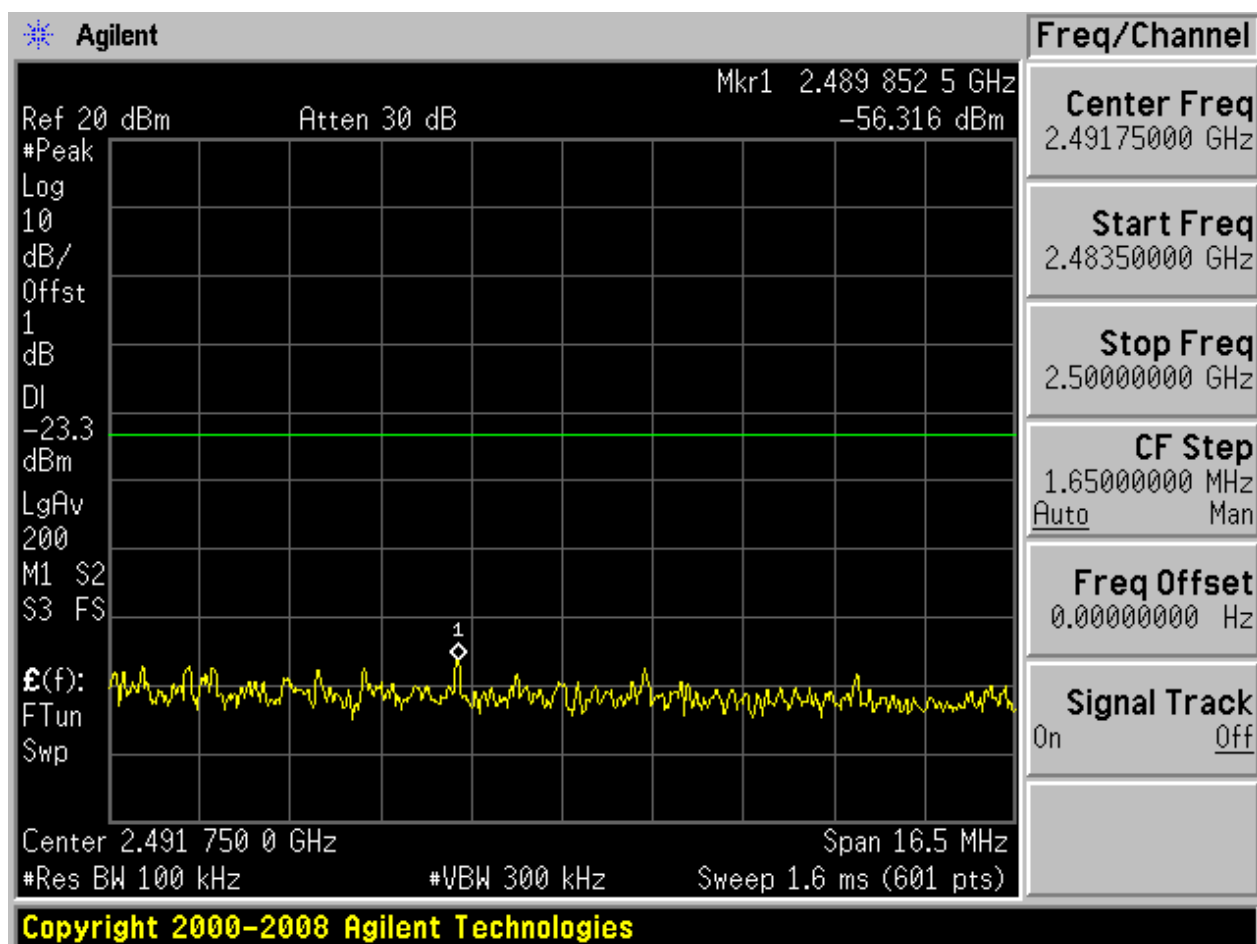
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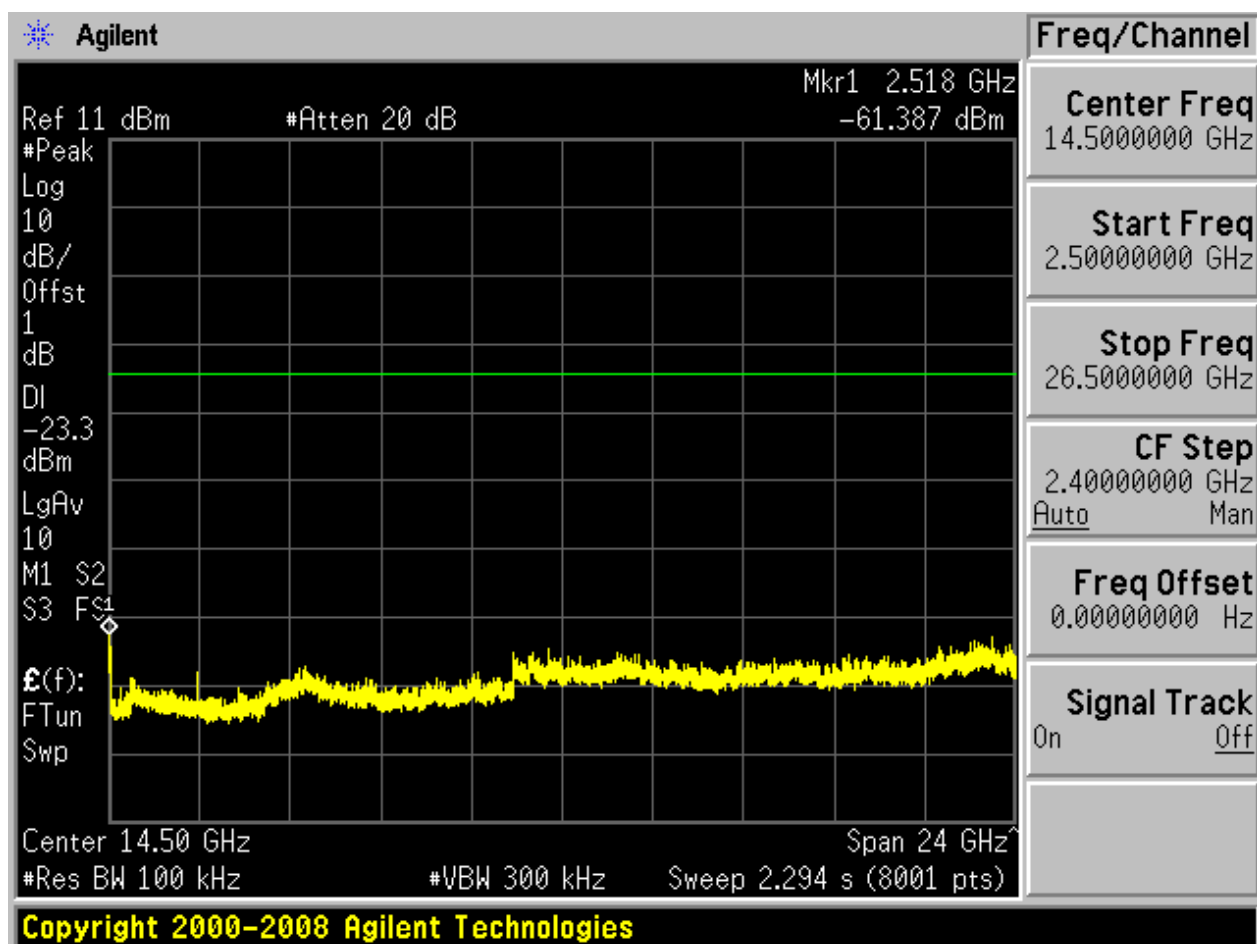








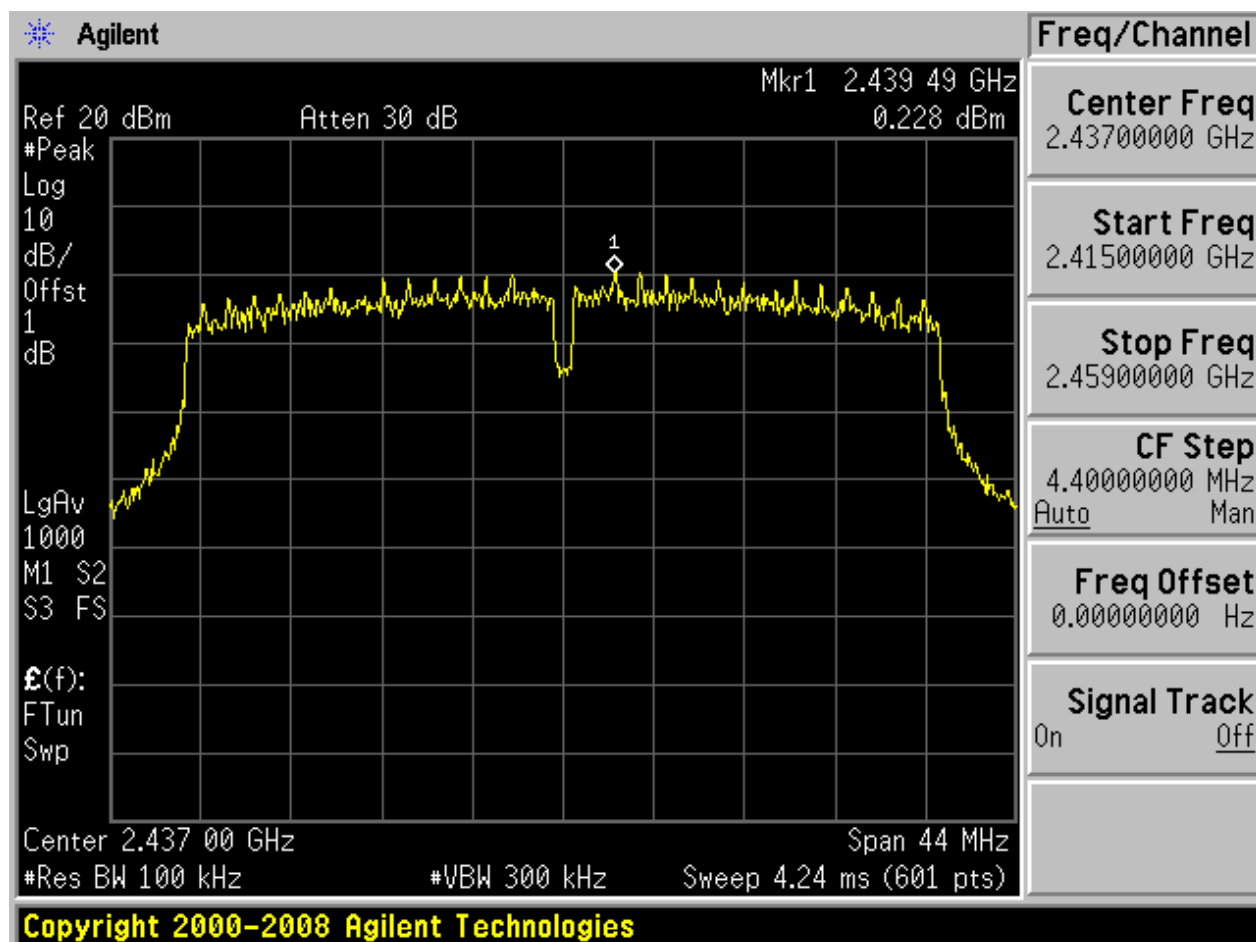






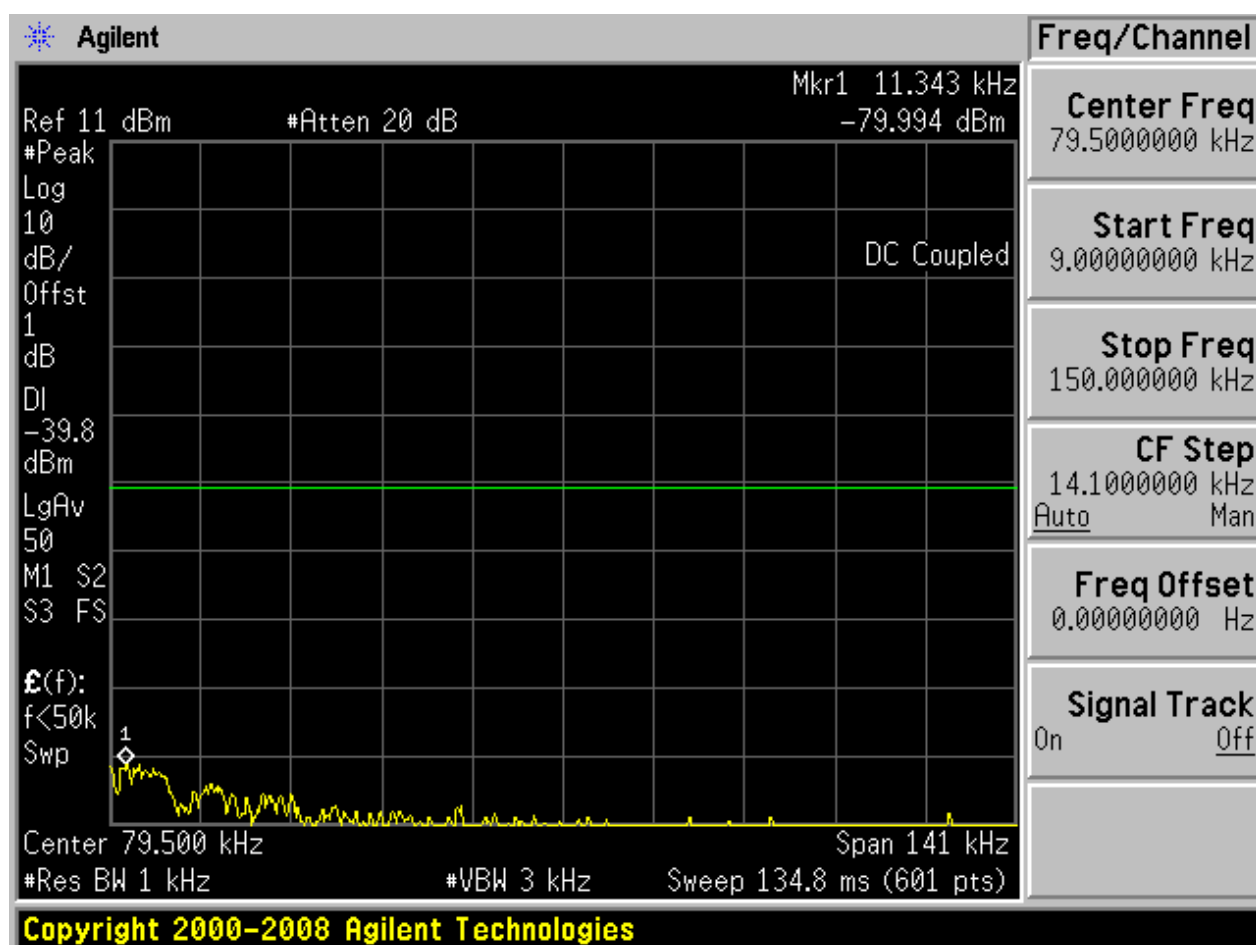
## 2.21 11N40\_M@BG1

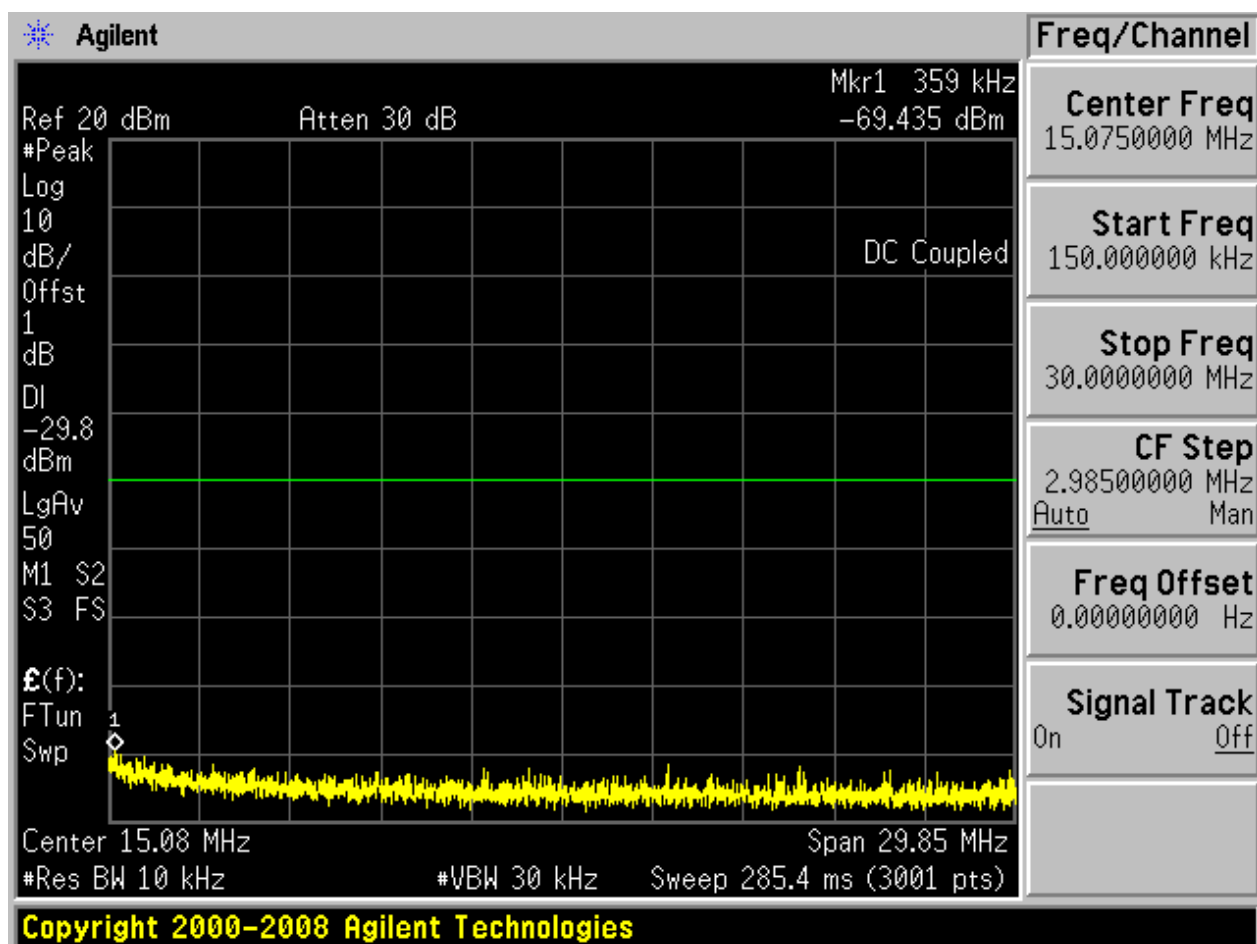
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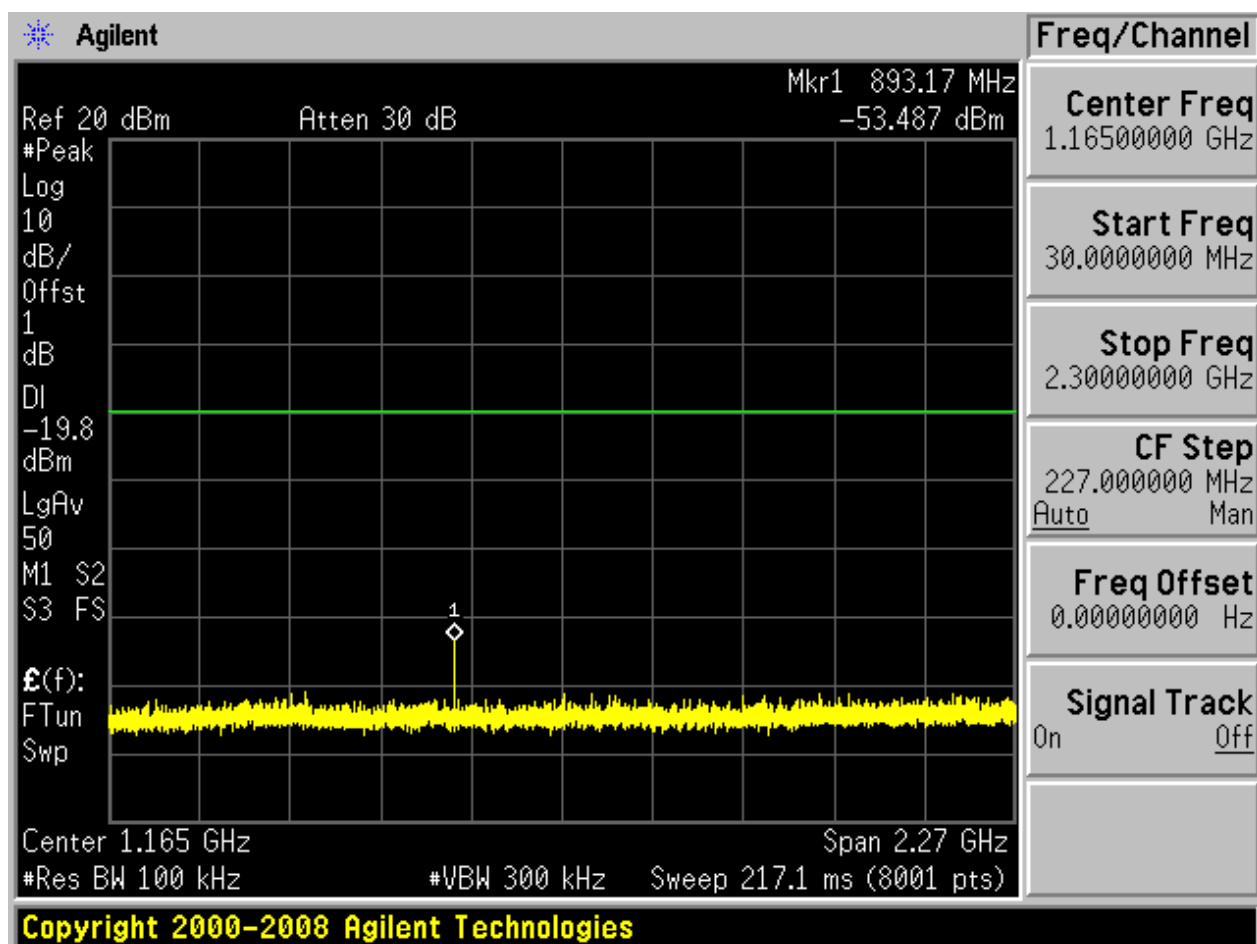


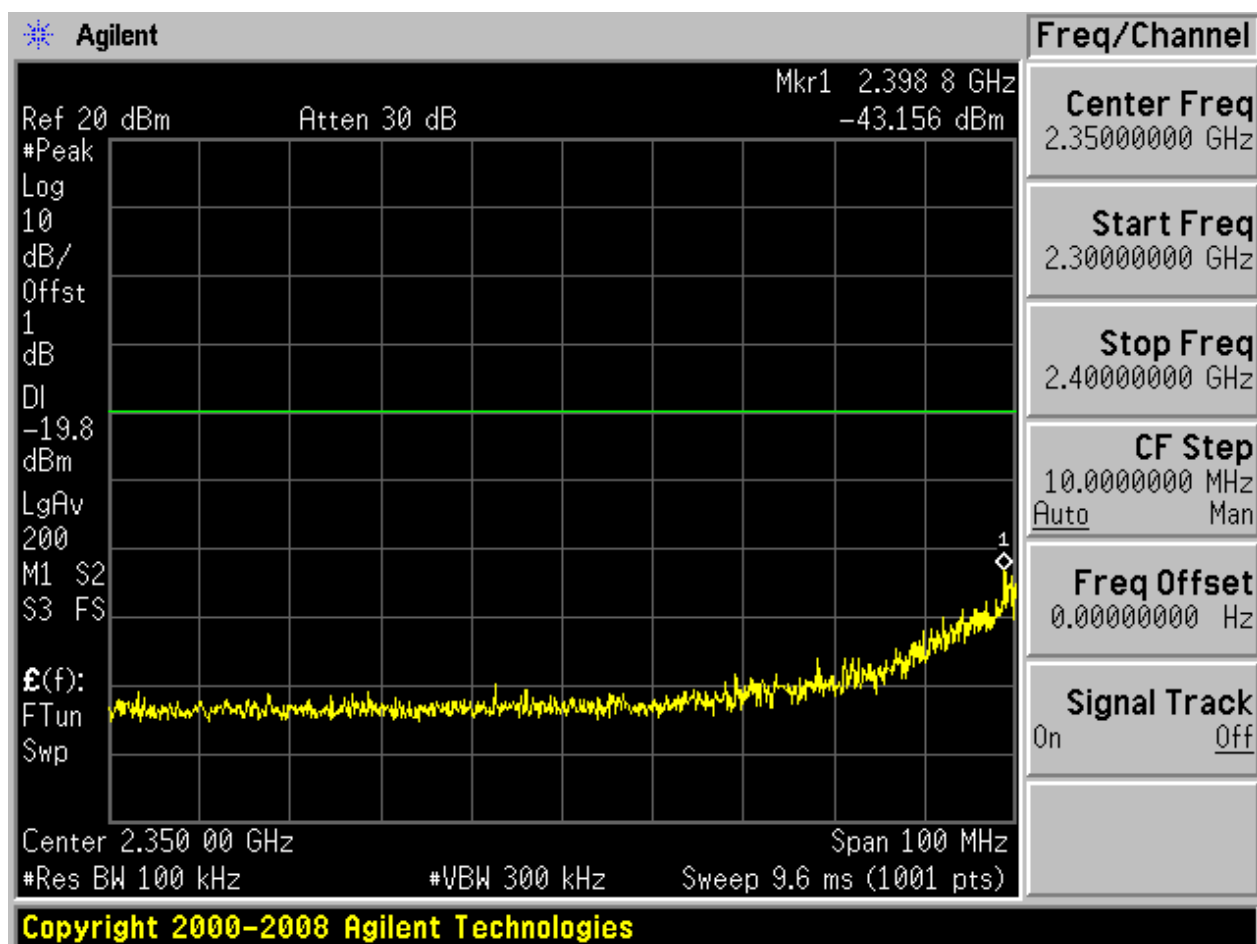


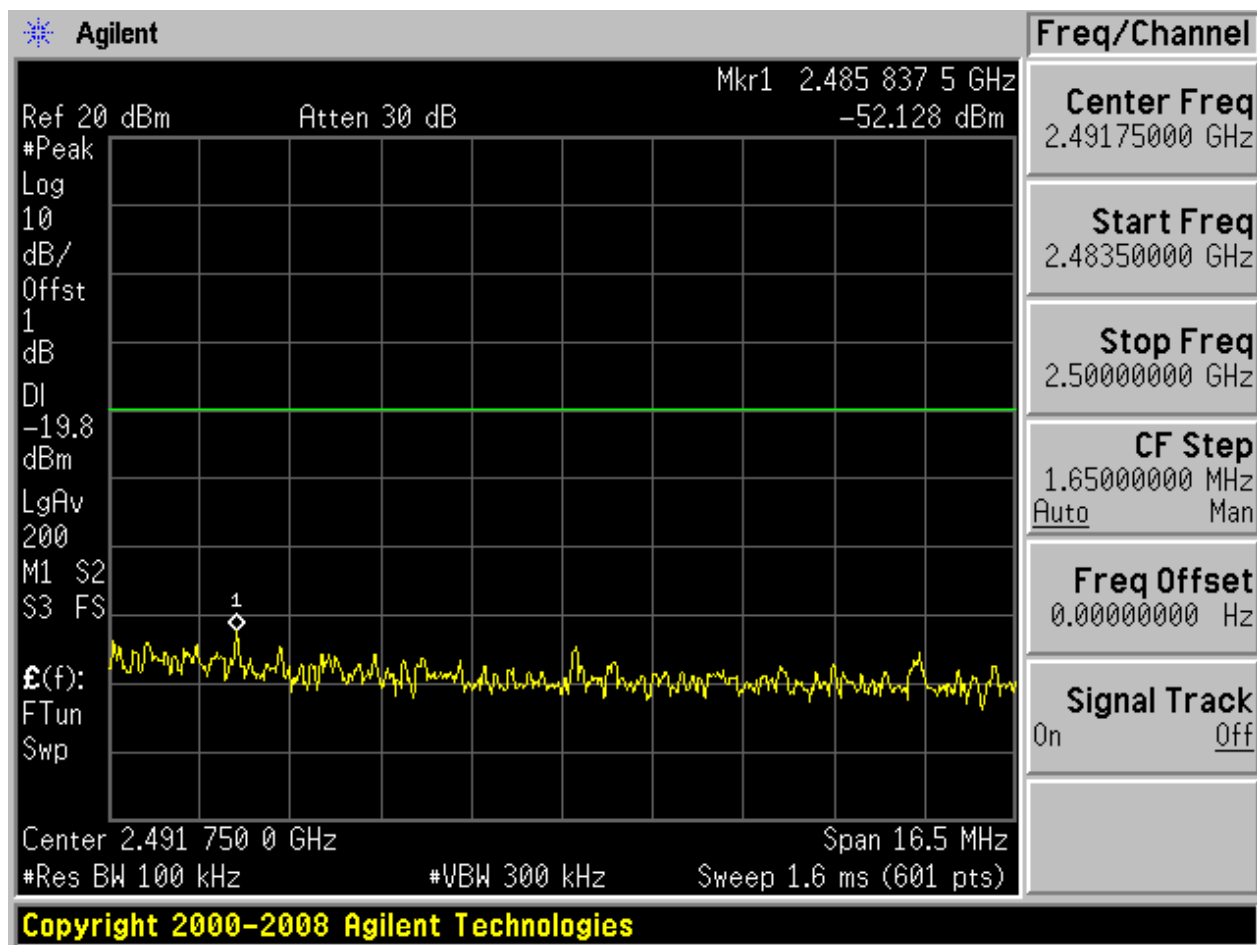
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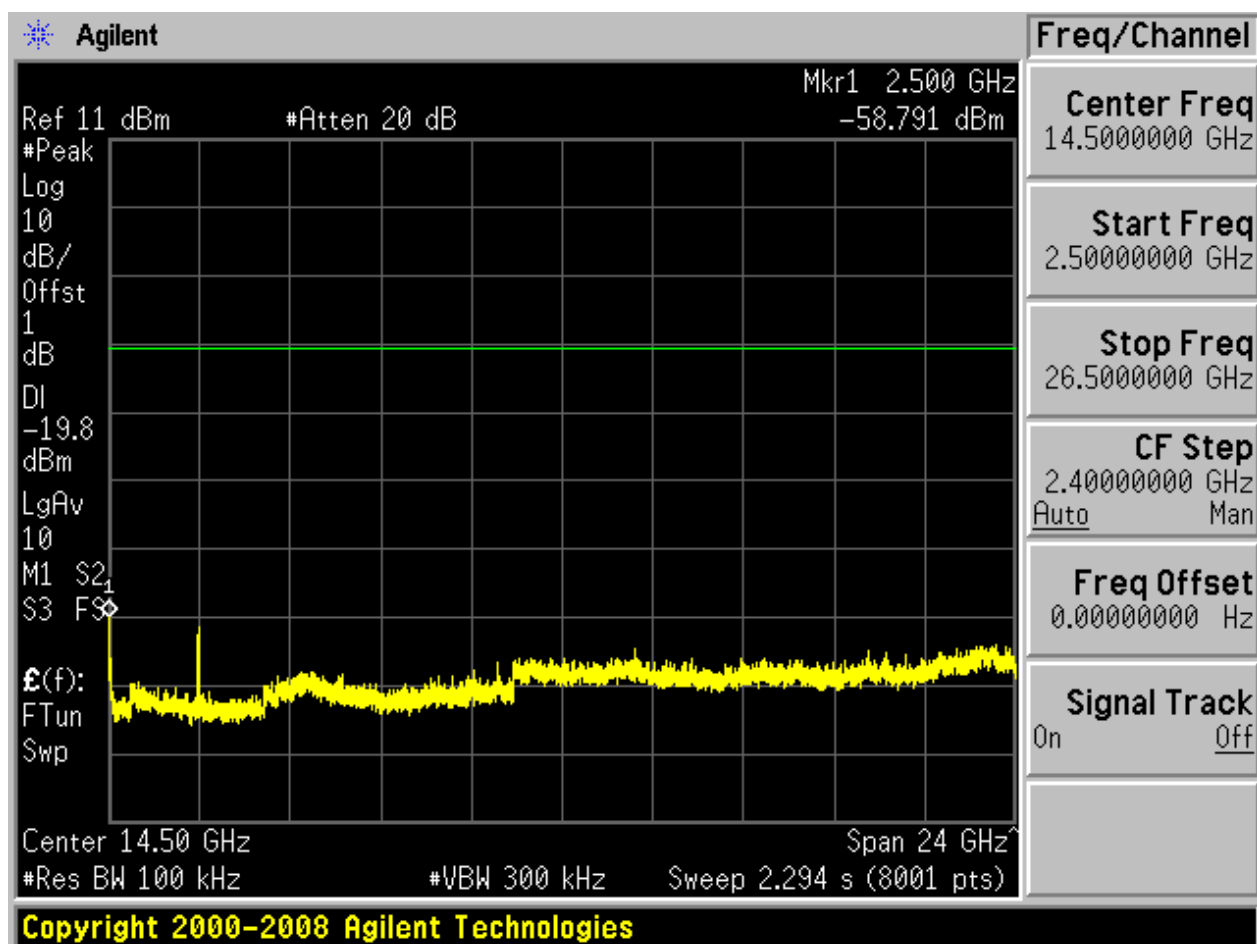






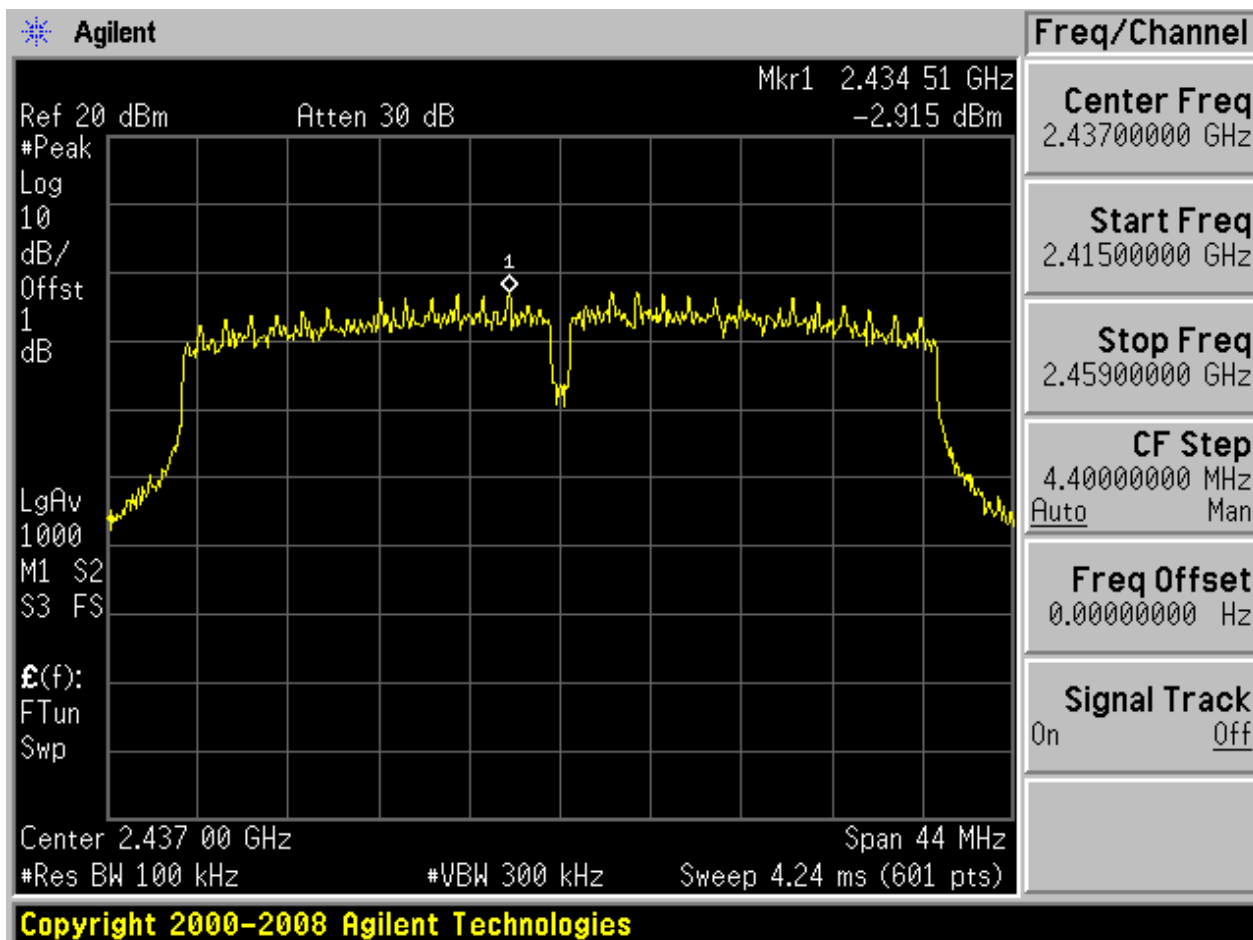






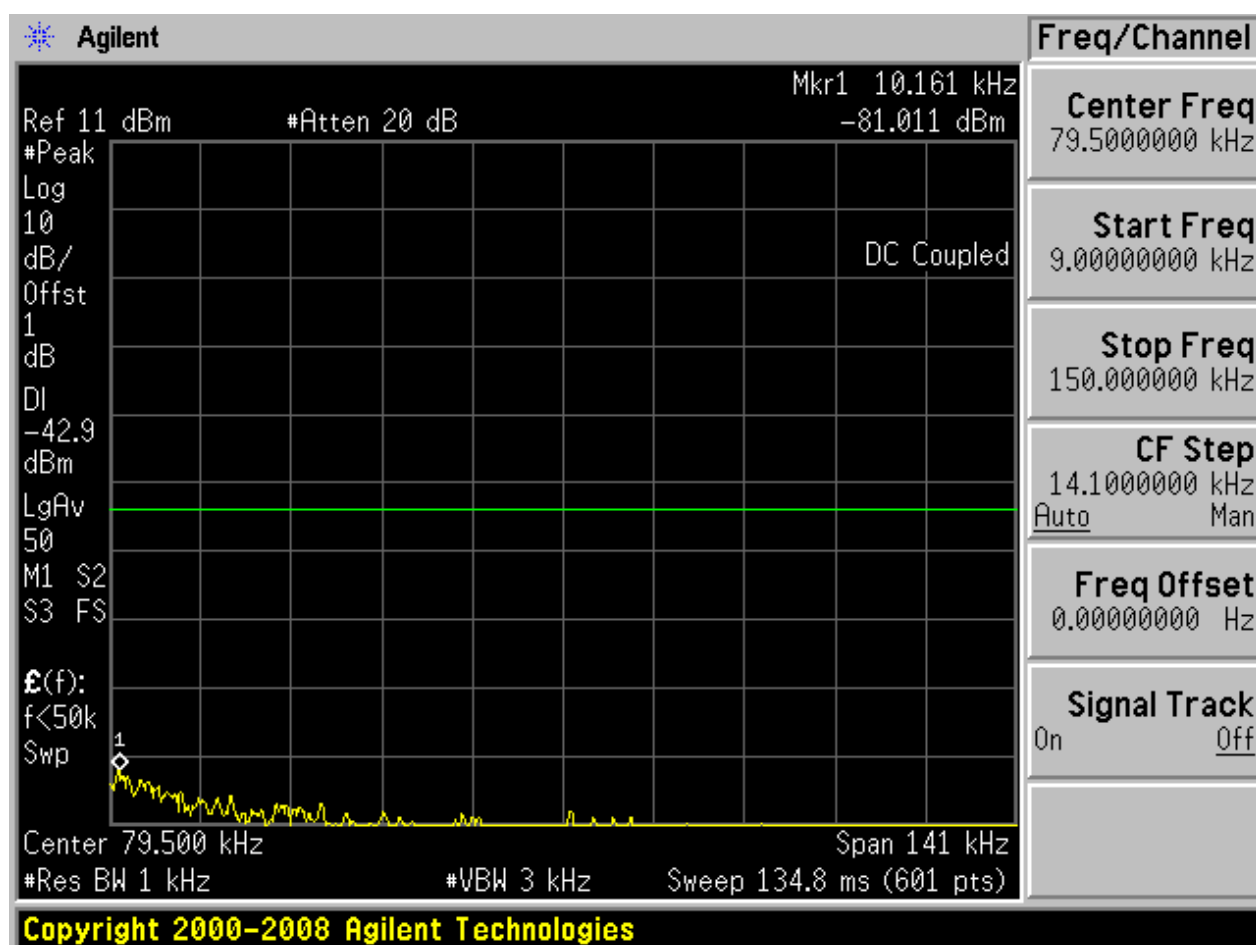
## 2.22 11N40\_M@BG2

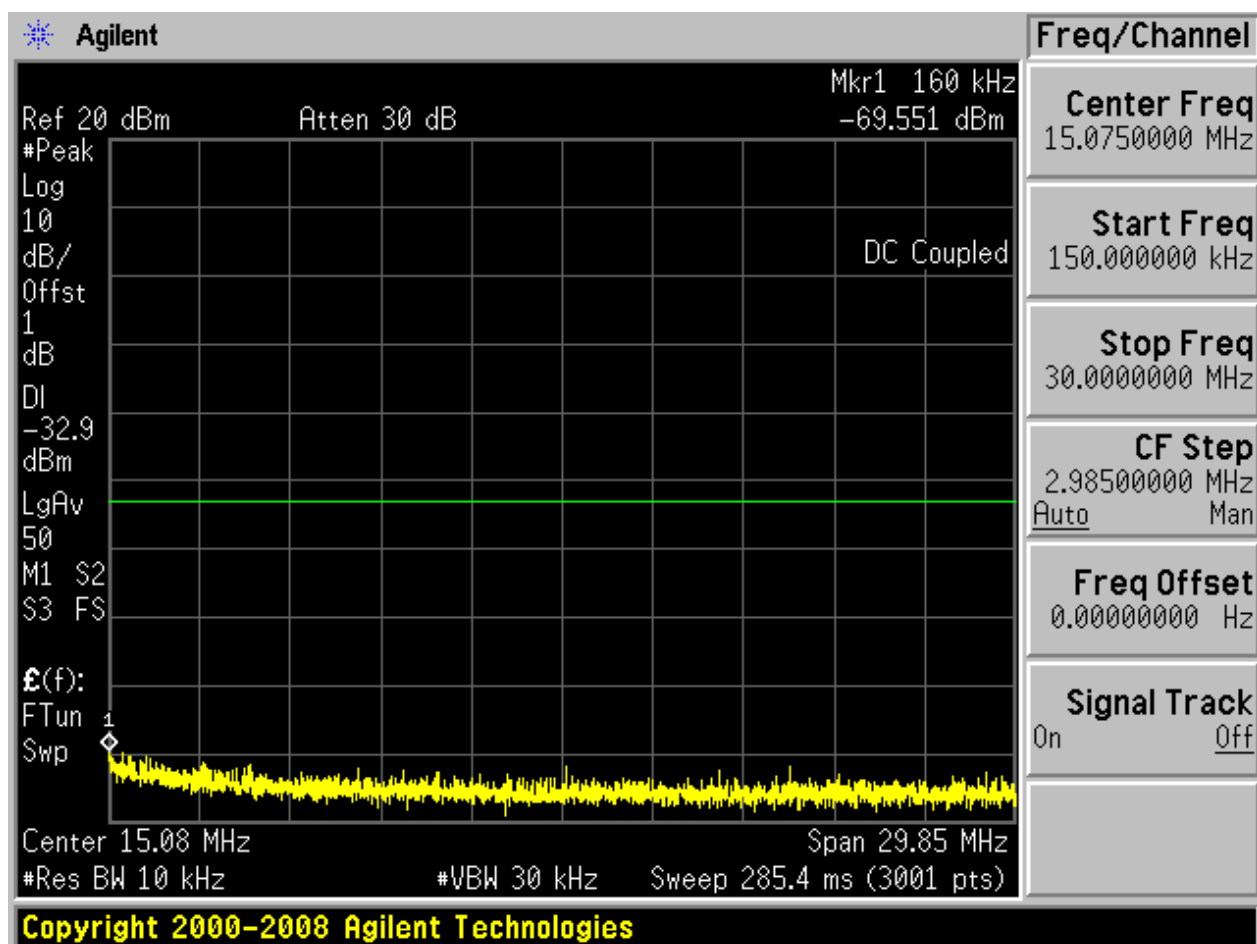
Pref:

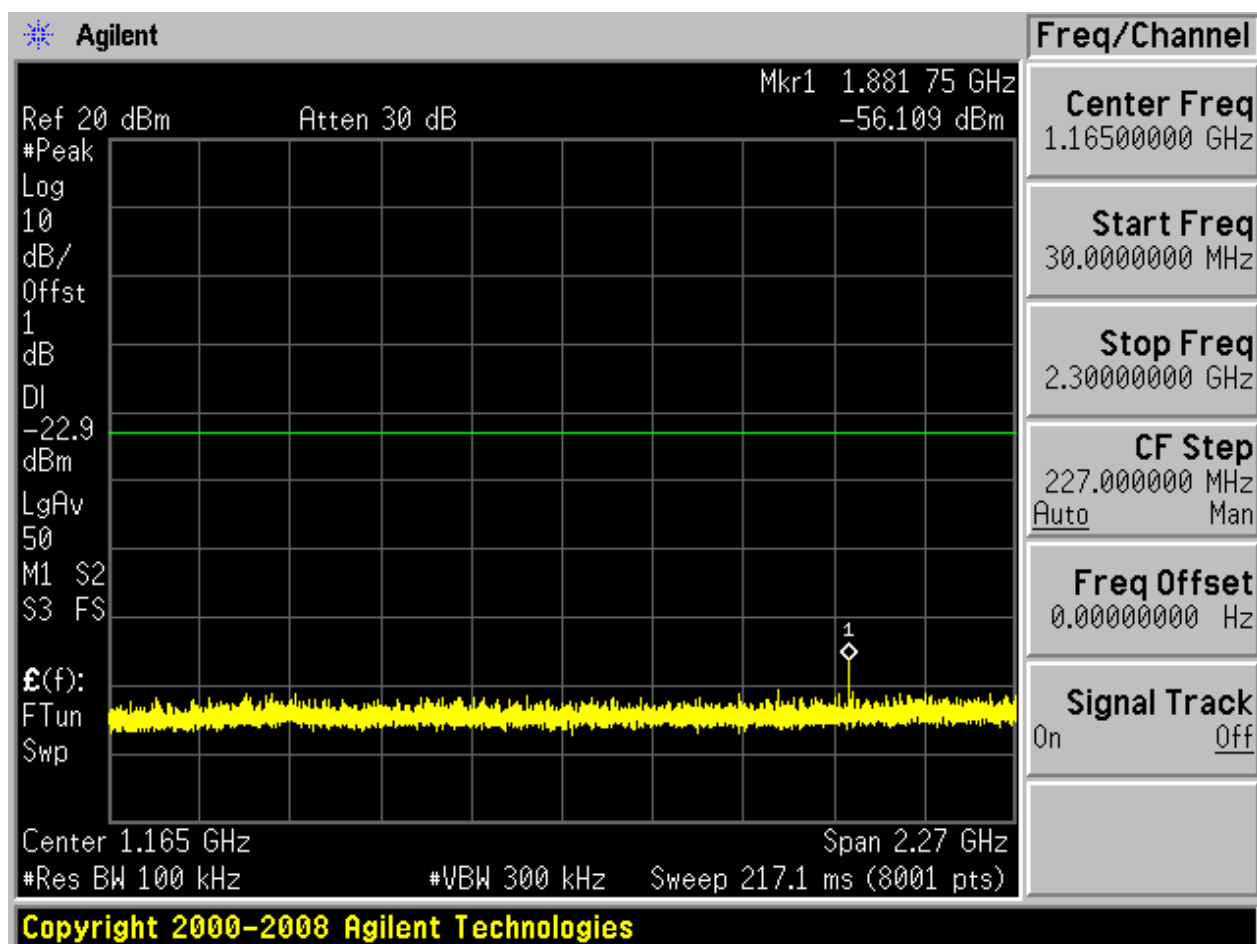


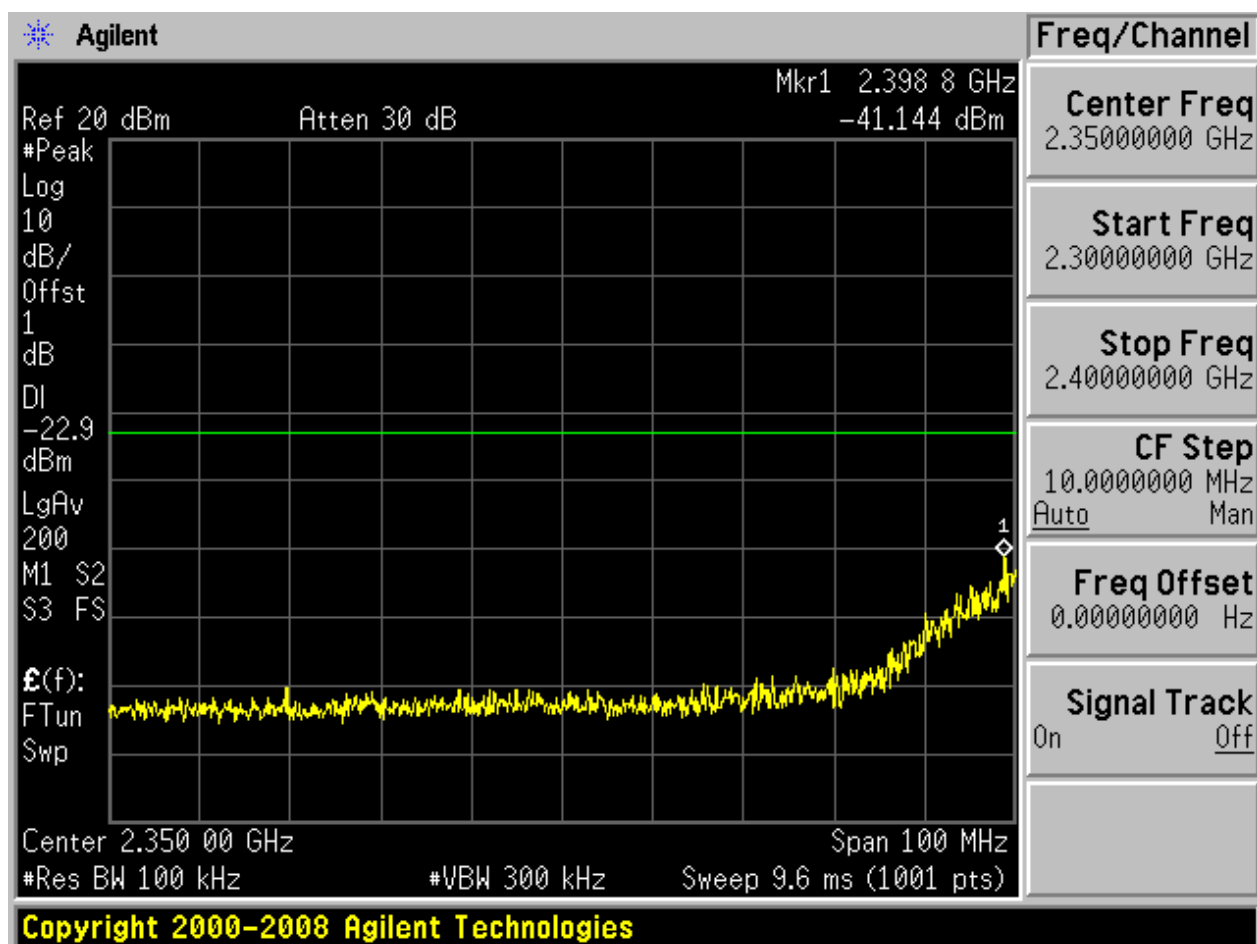


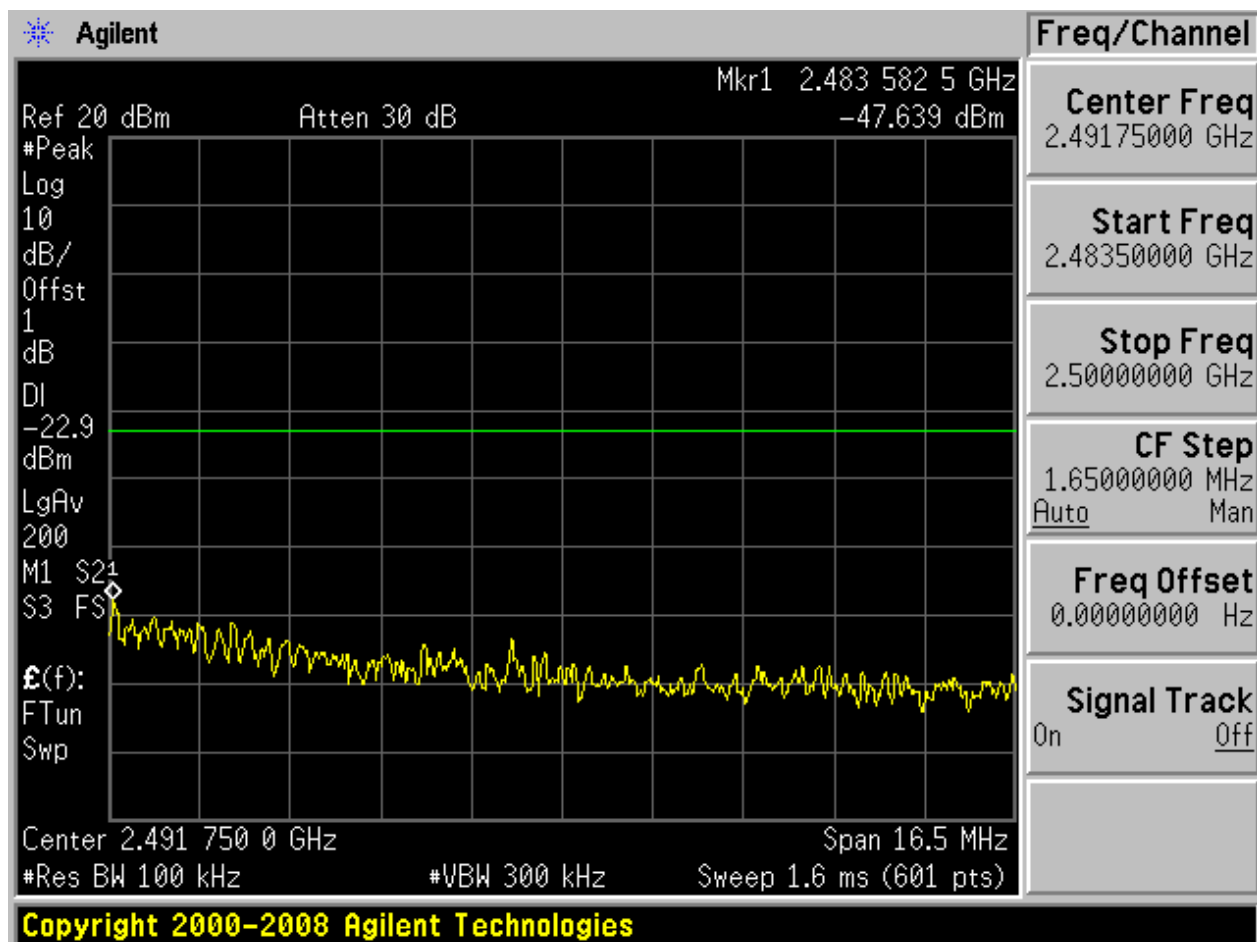
Puw:

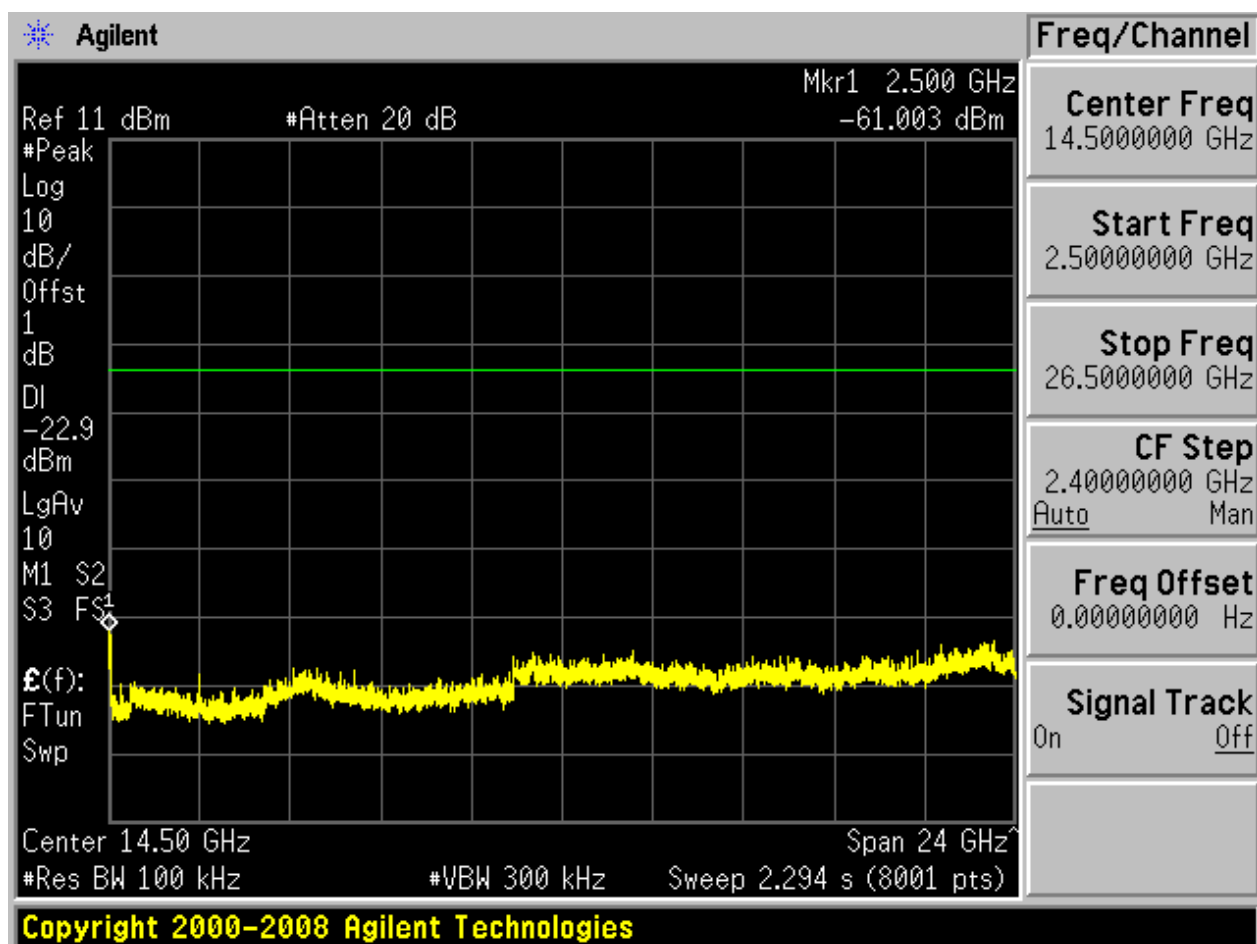








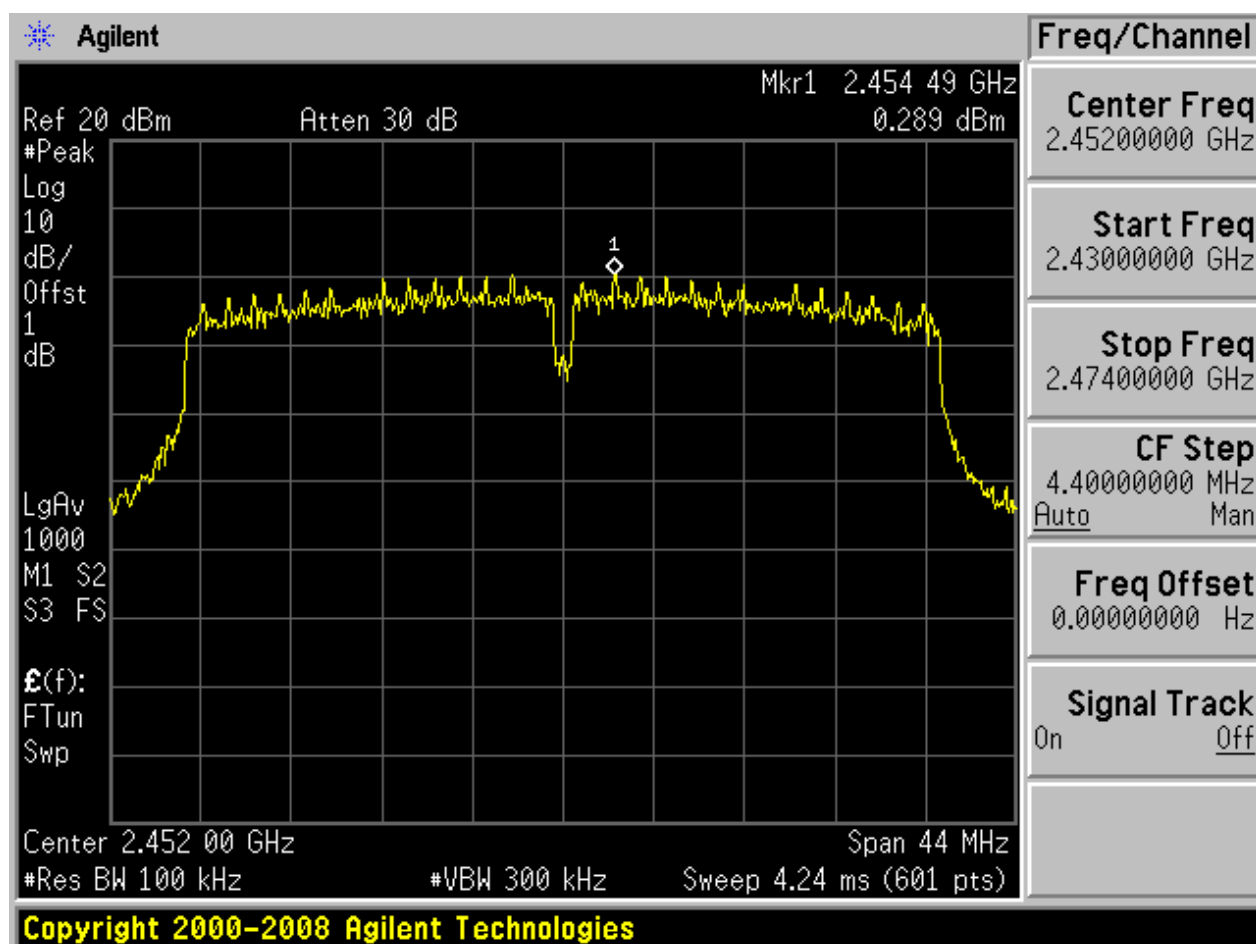






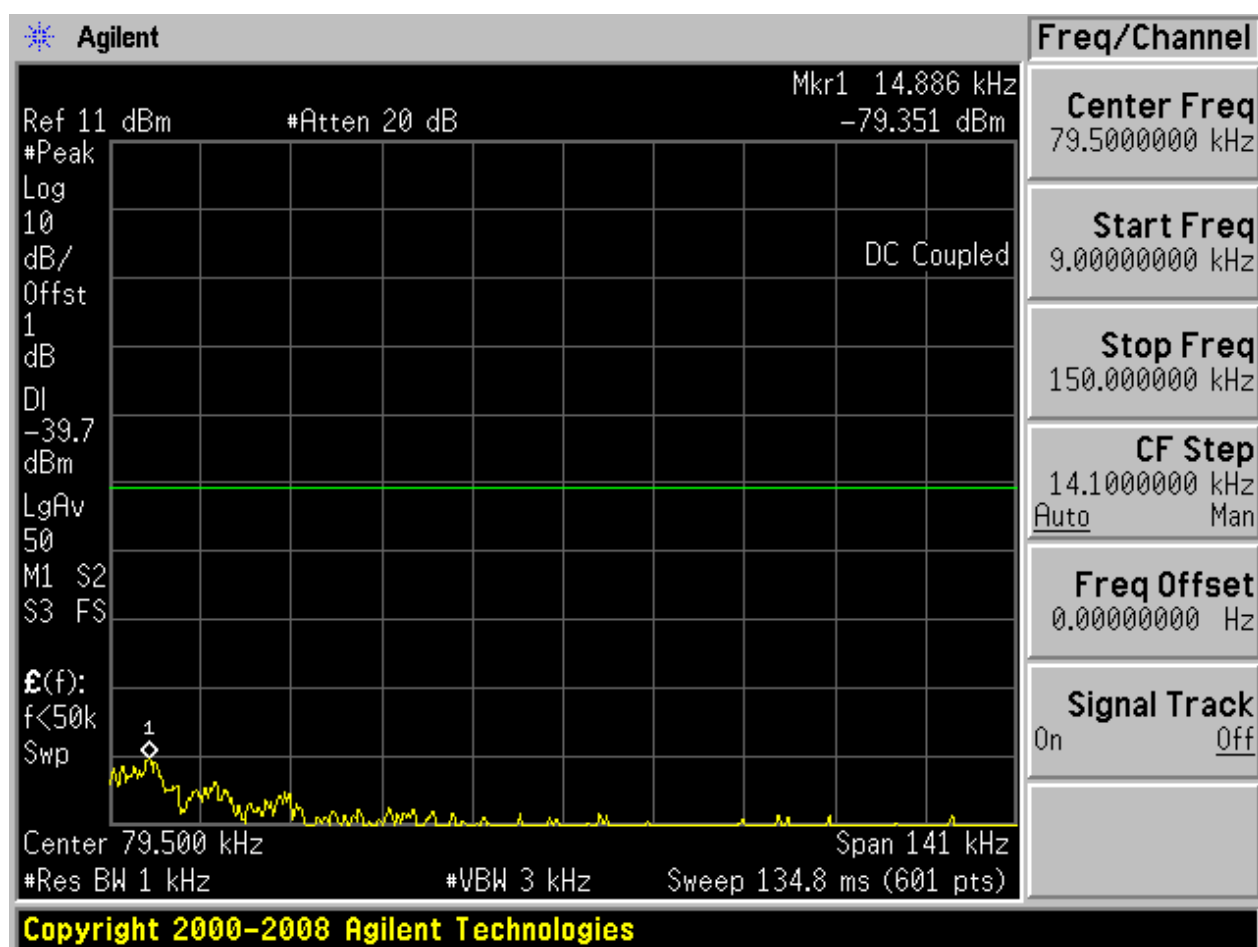
## 2.23 11N40\_H@BG1

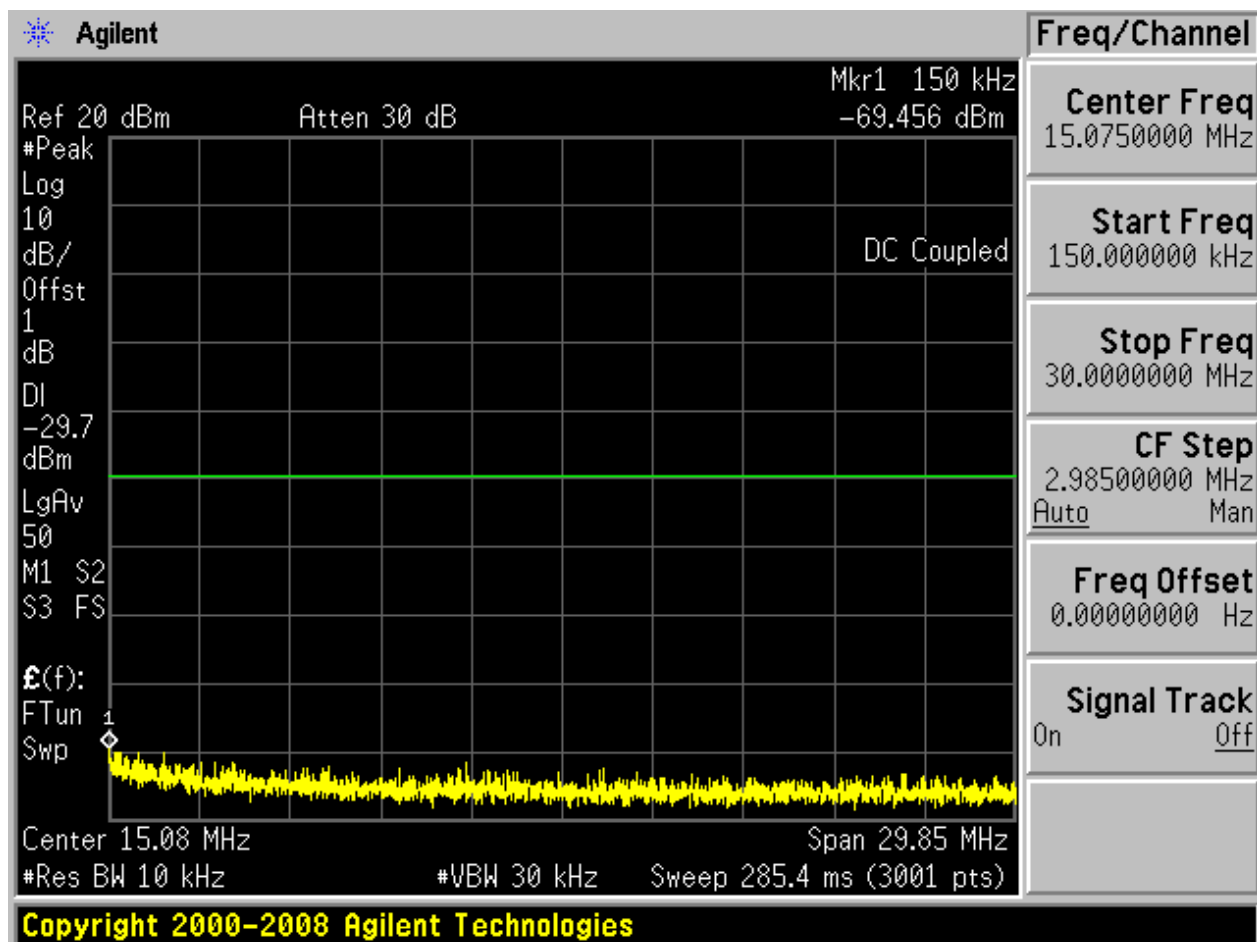
Pref:

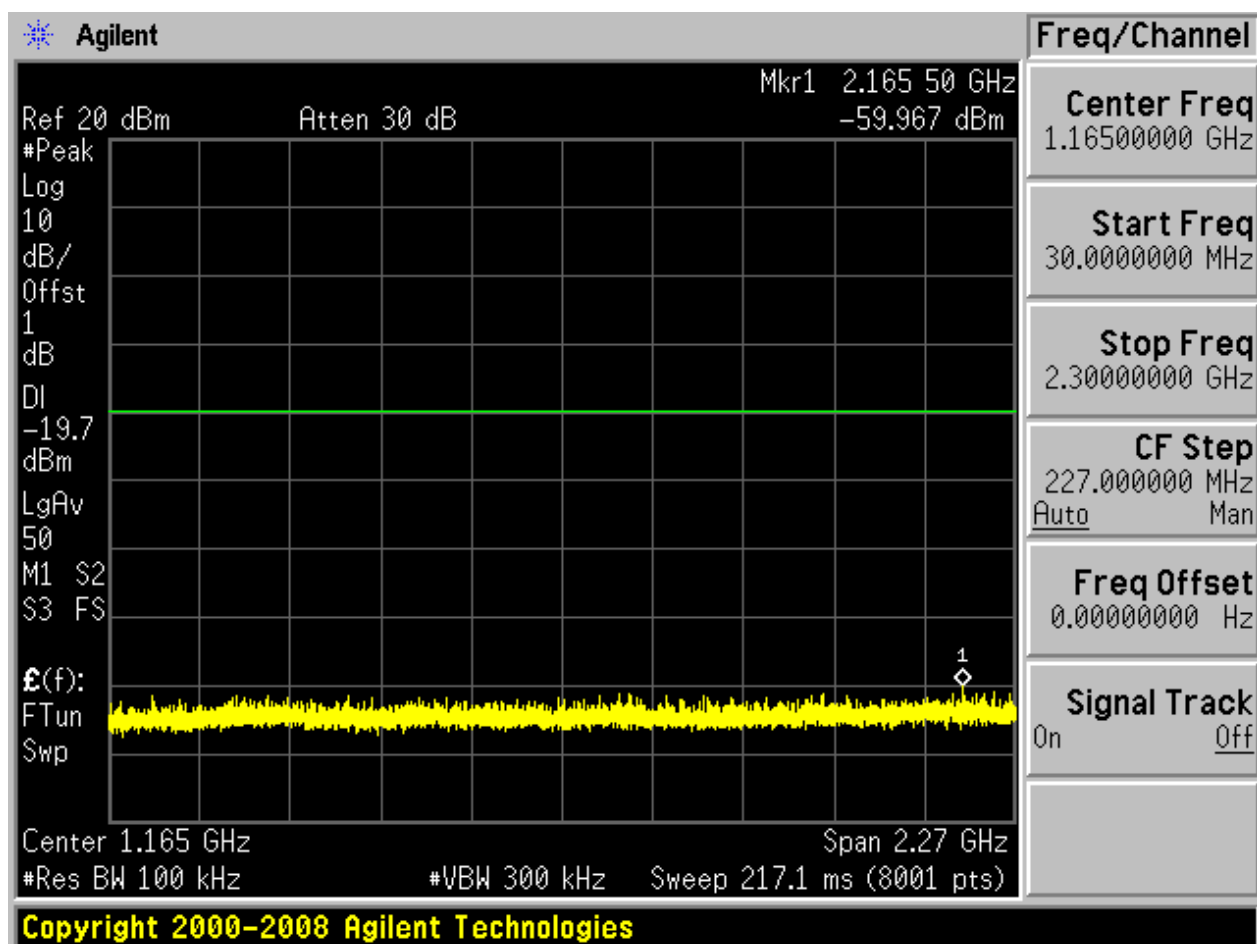


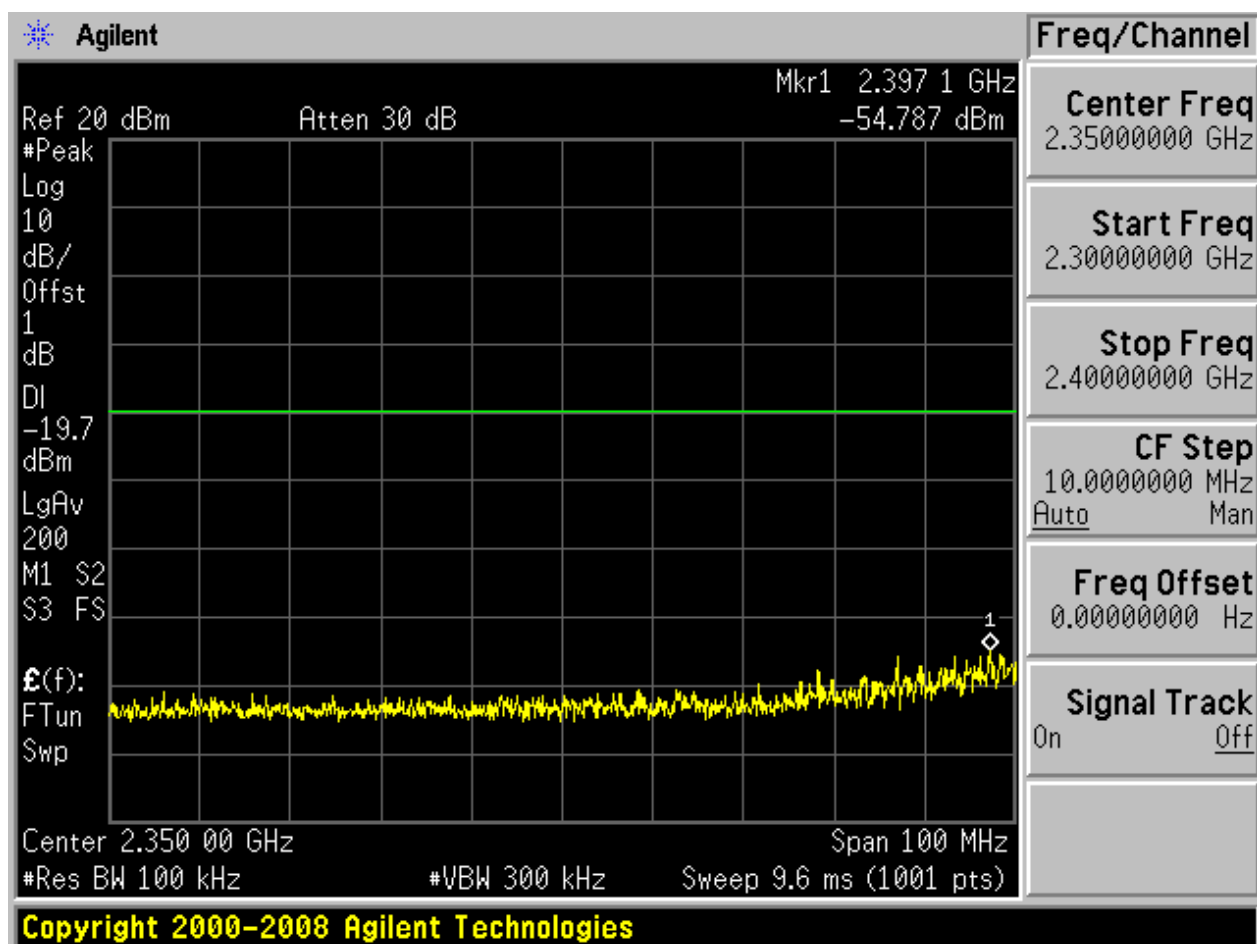


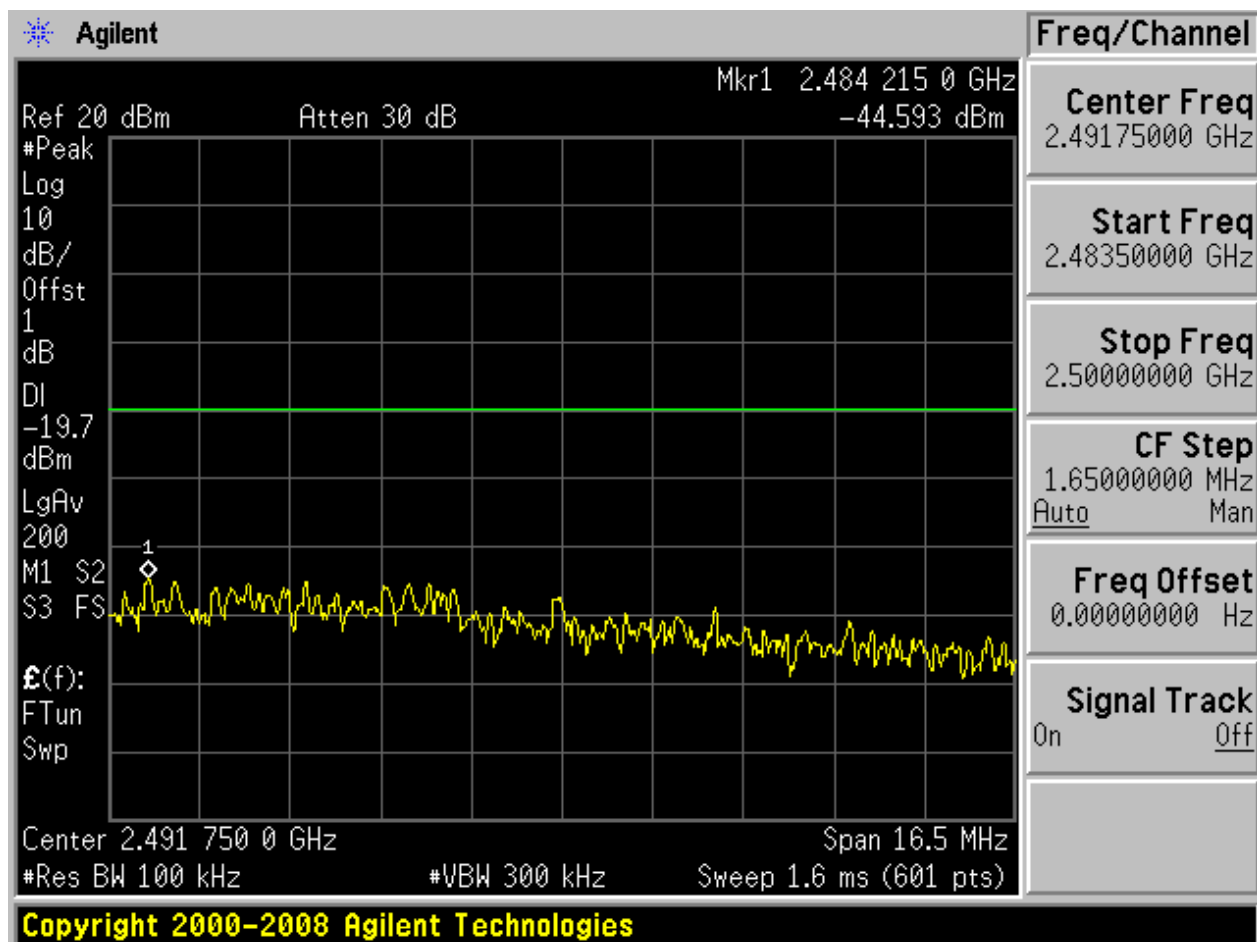
Puw:

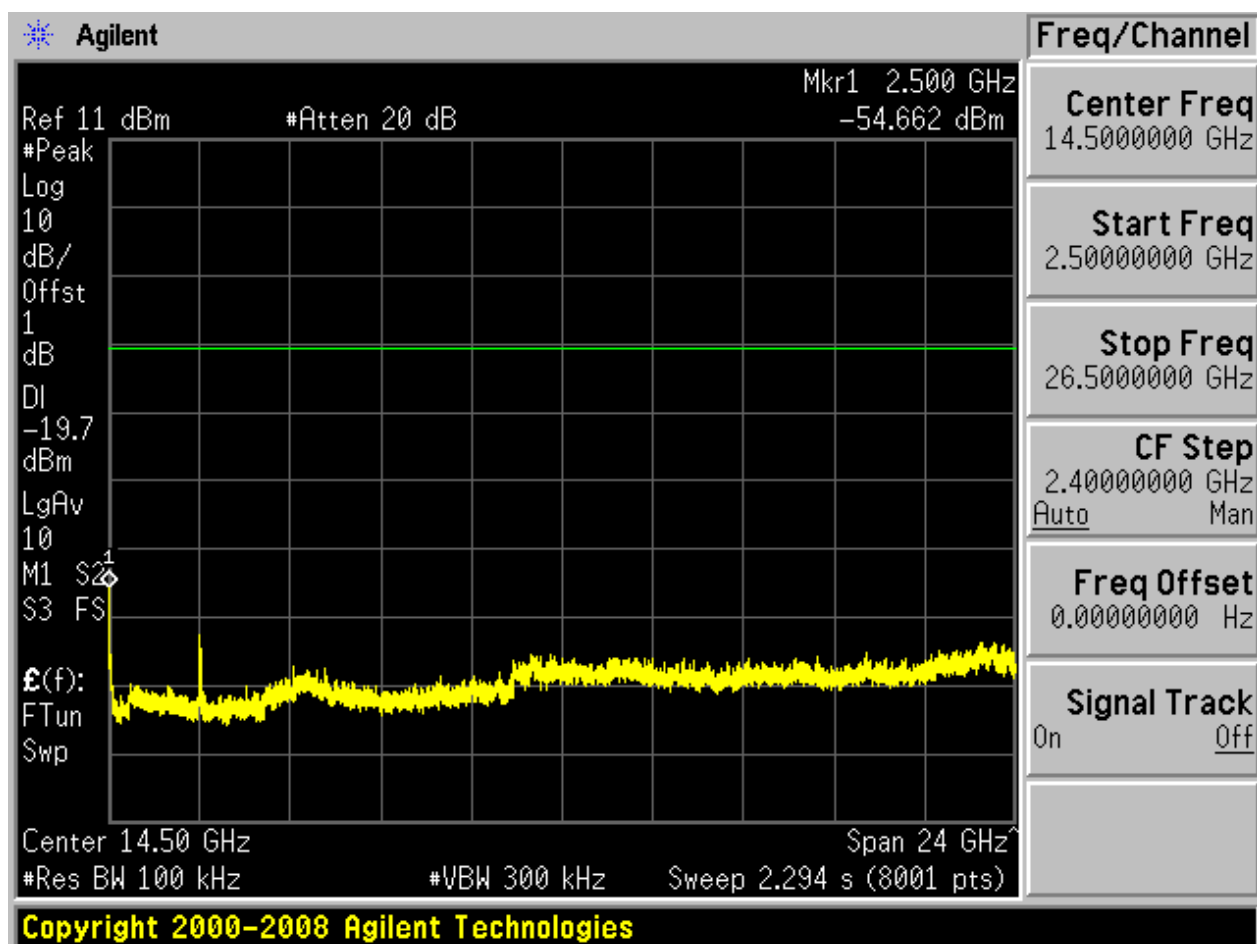






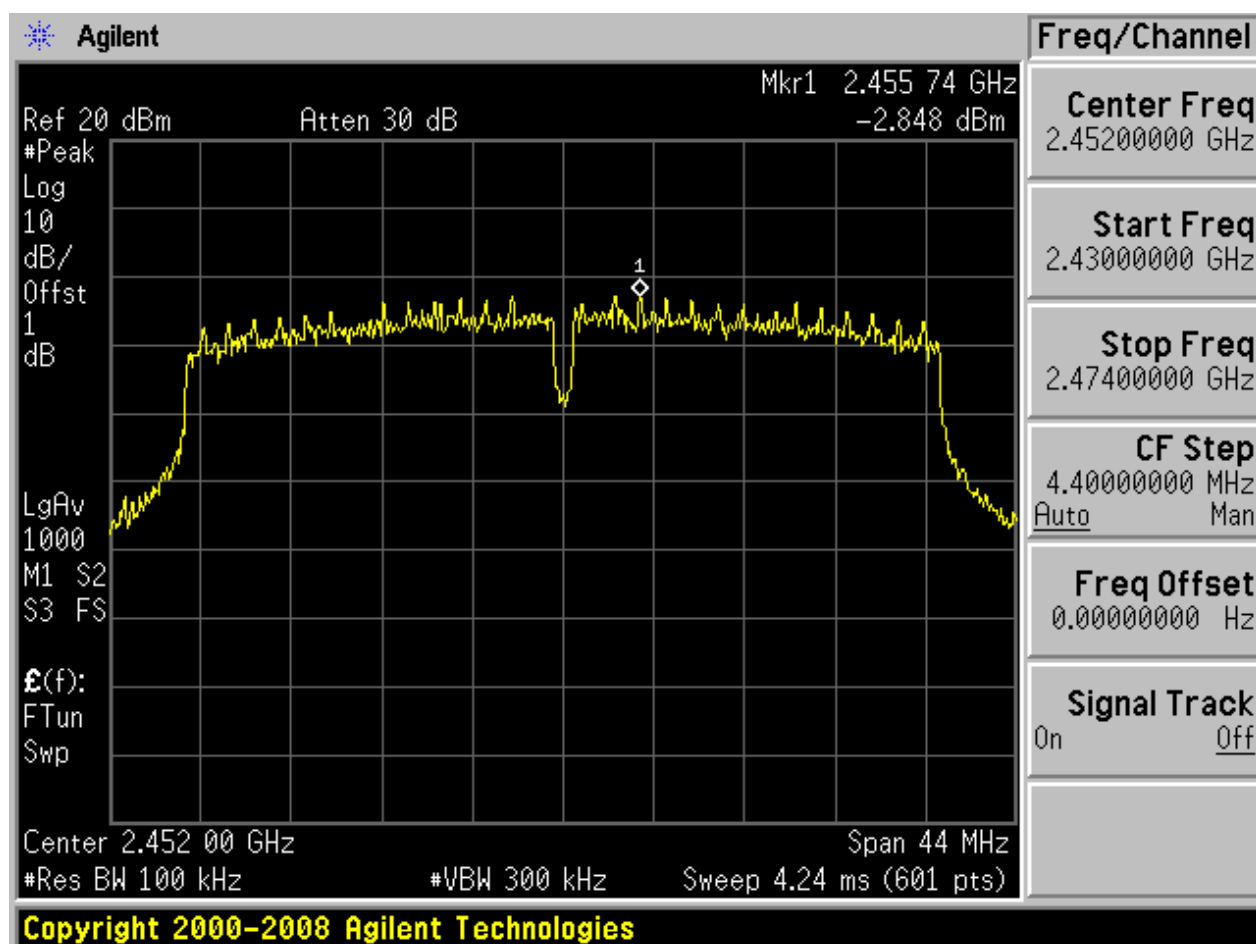






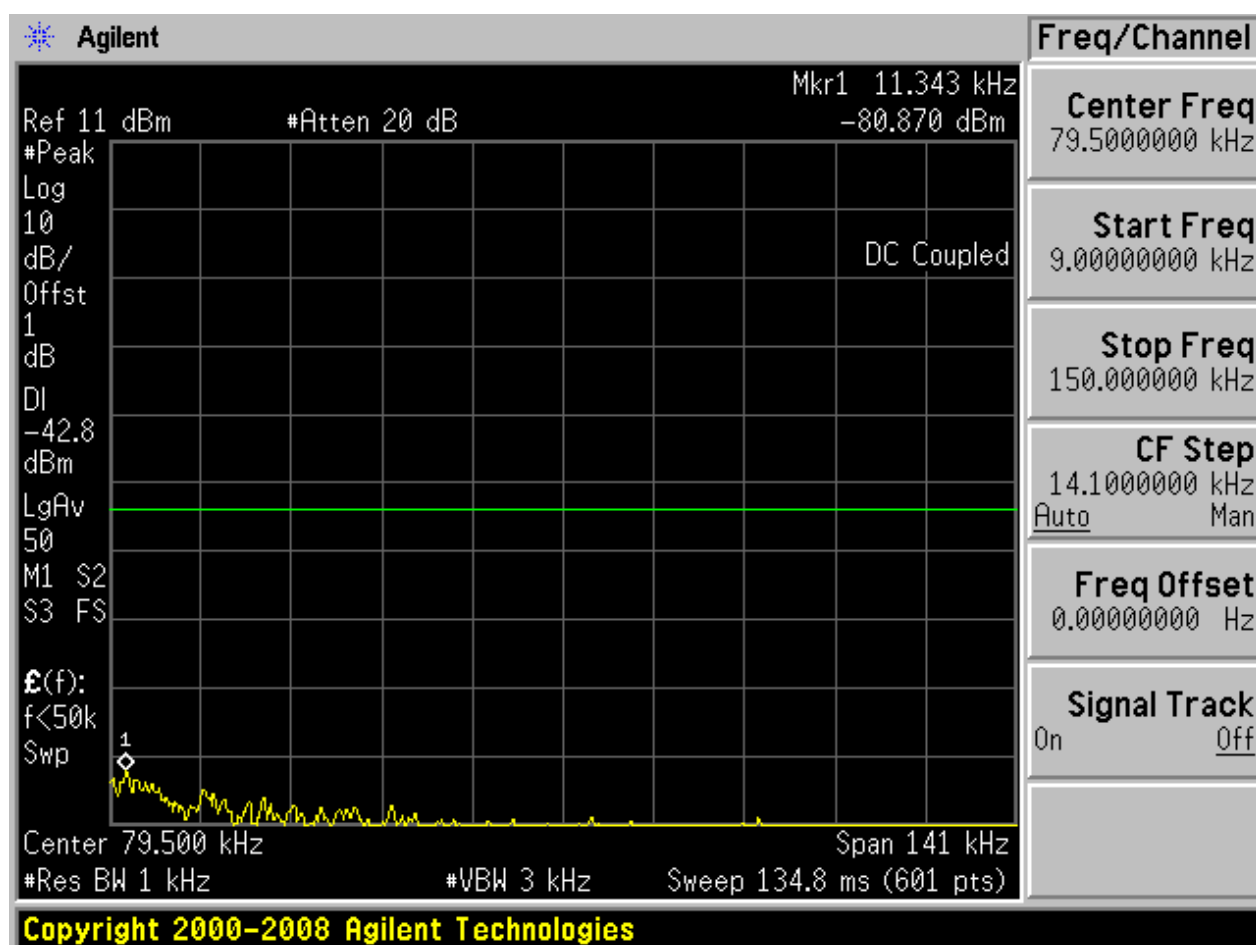
## 2.24 11N40\_H@BG2

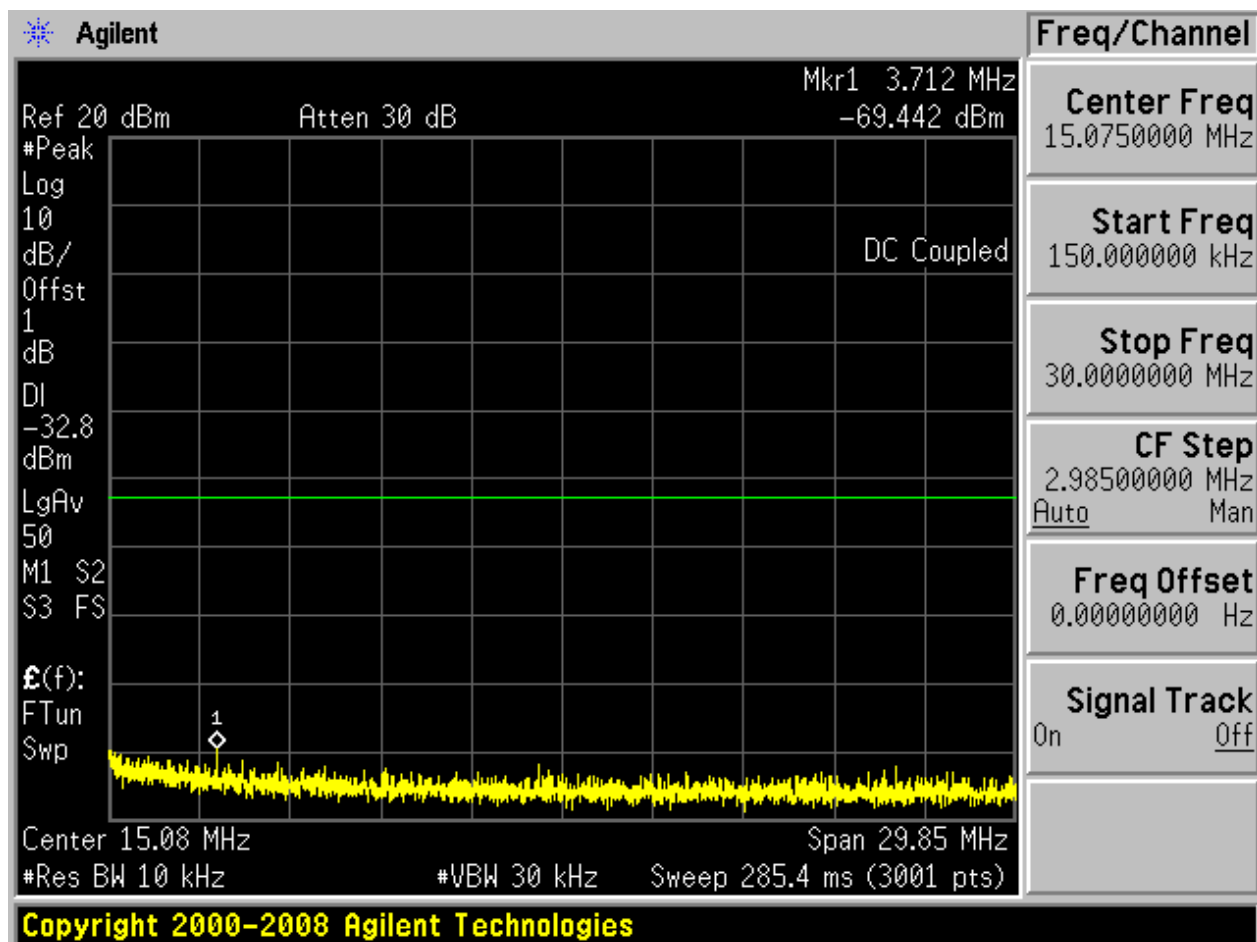
Pref:

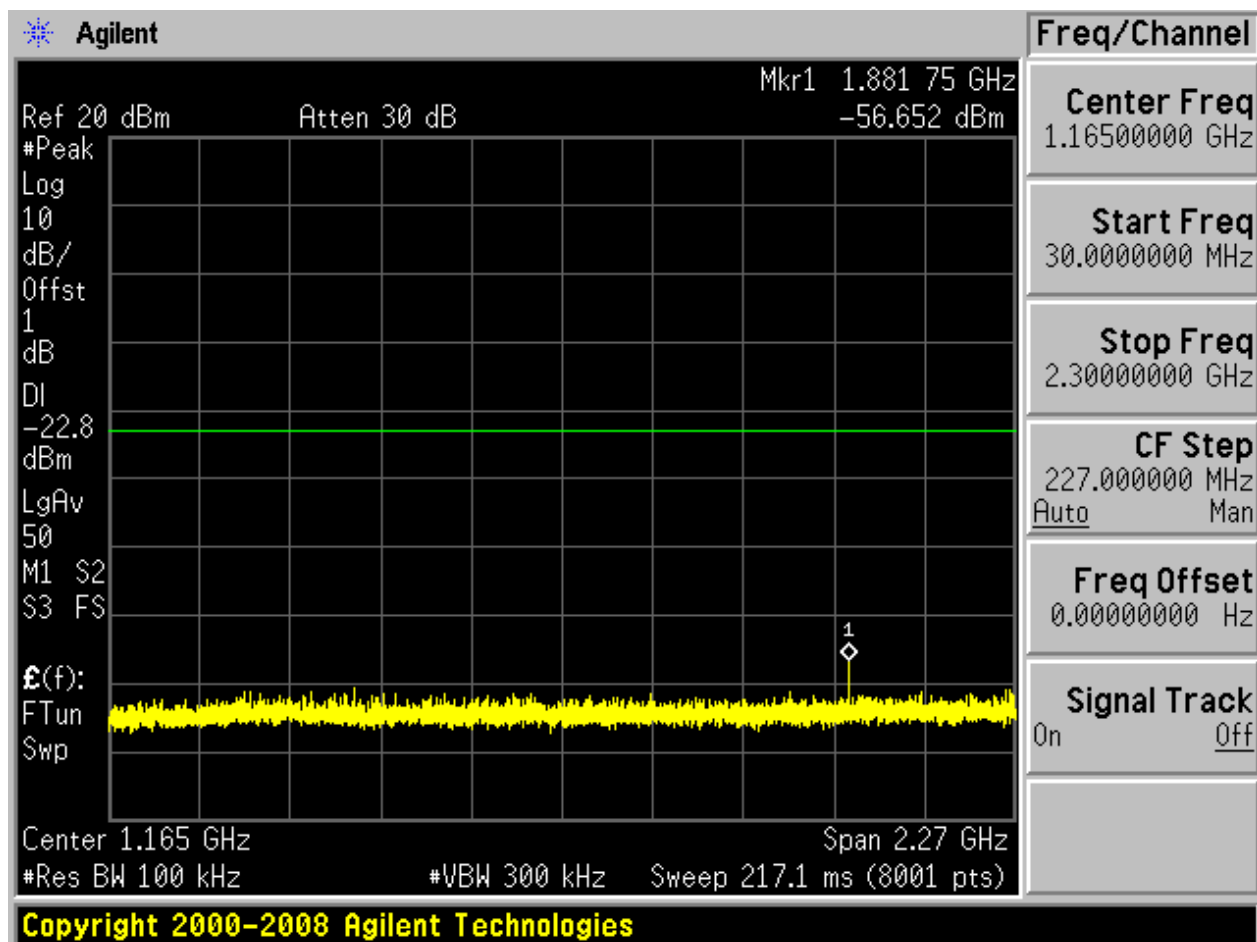


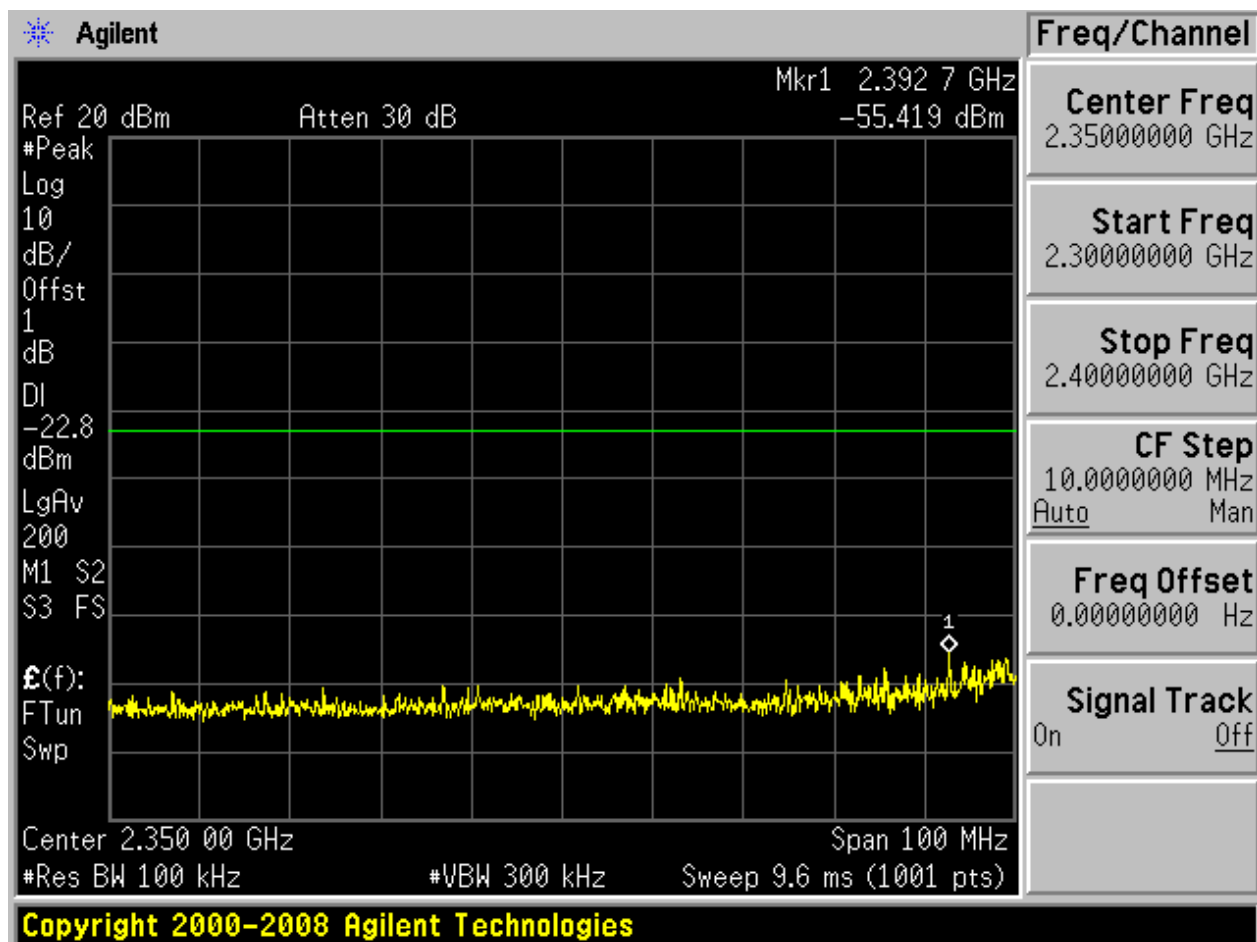


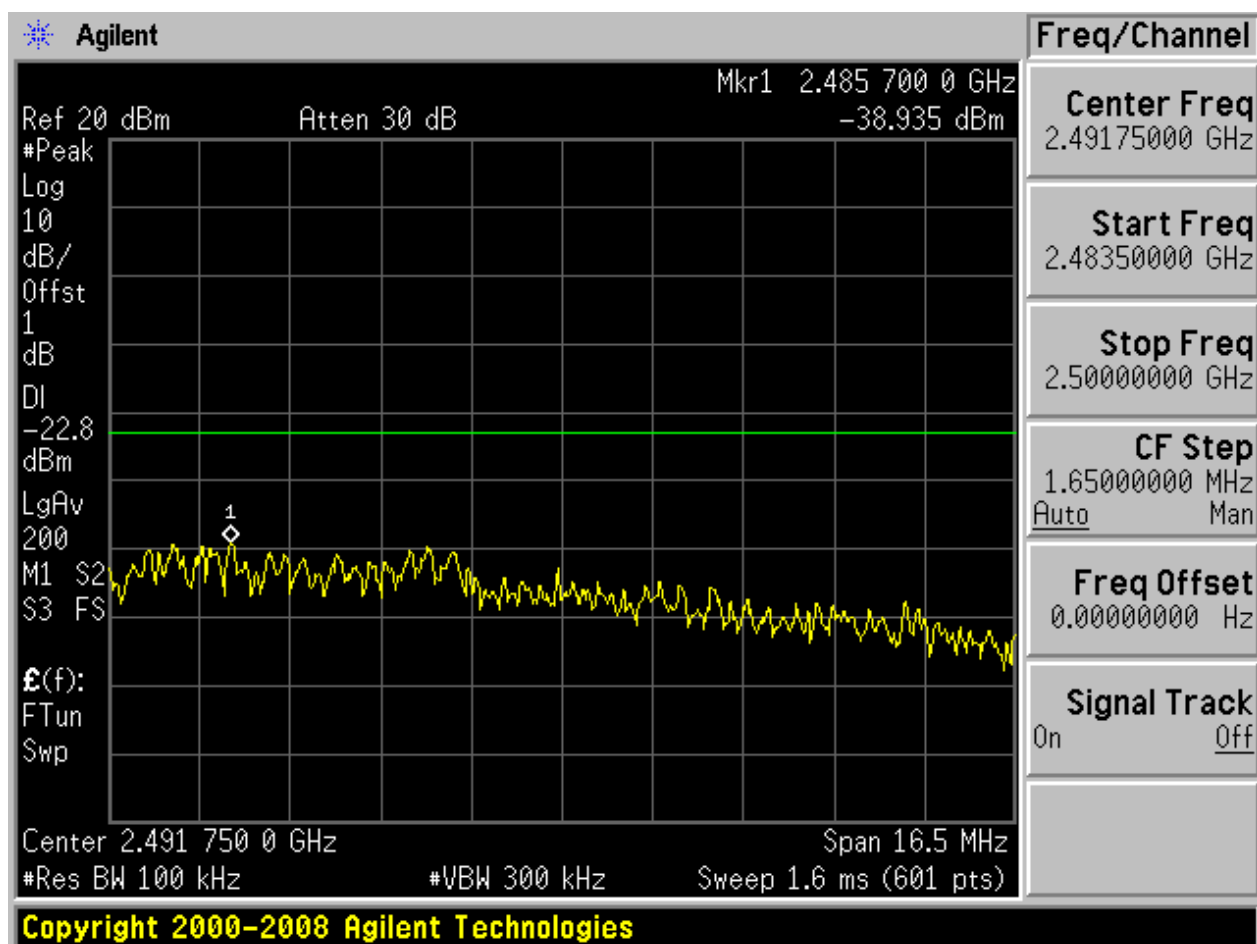
Puw:

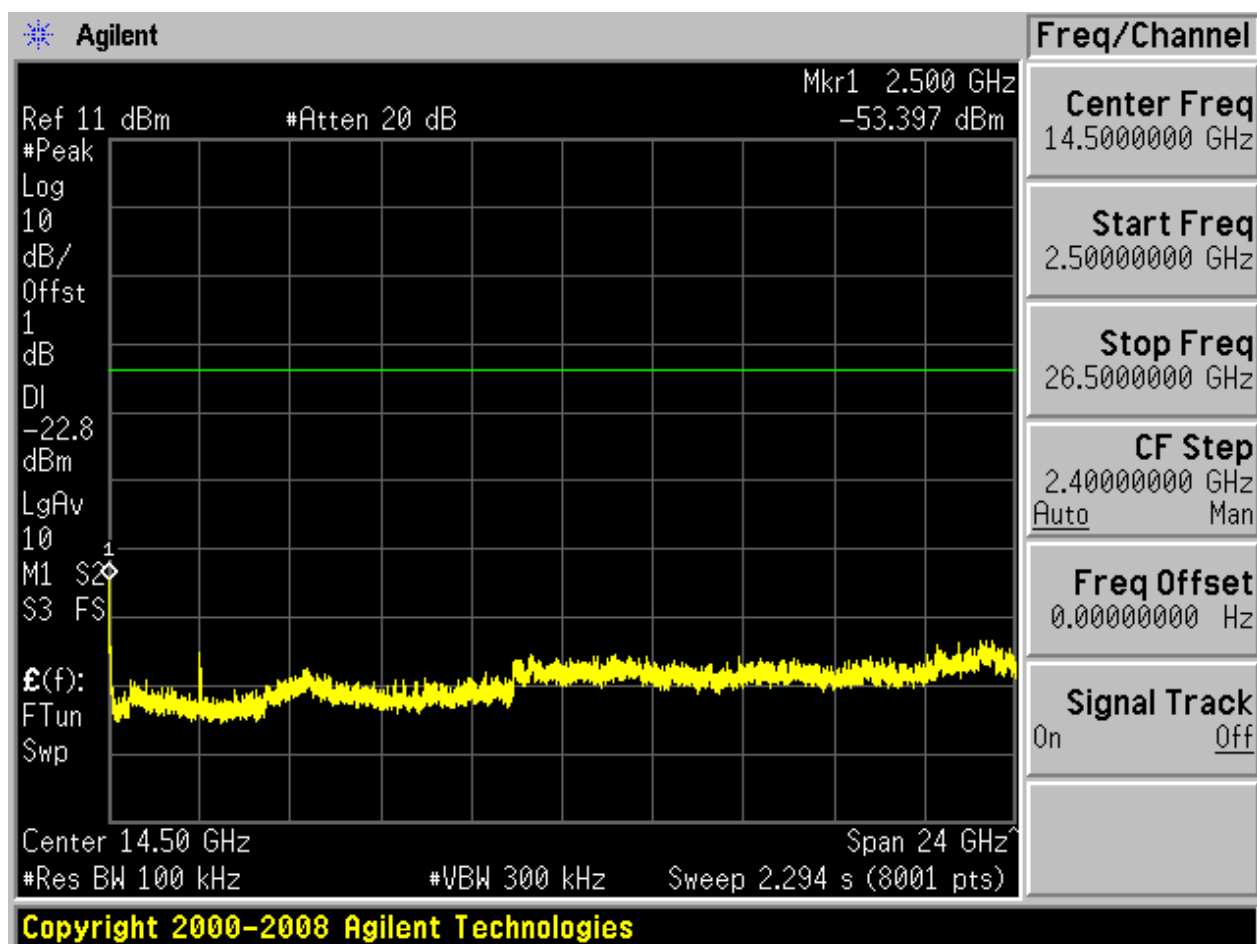












## Appendix F: Unwanted Emissions into Restricted Frequency Bands (Conducted) & Unwanted Emissions into Restricted Frequency Bands (Radiated)

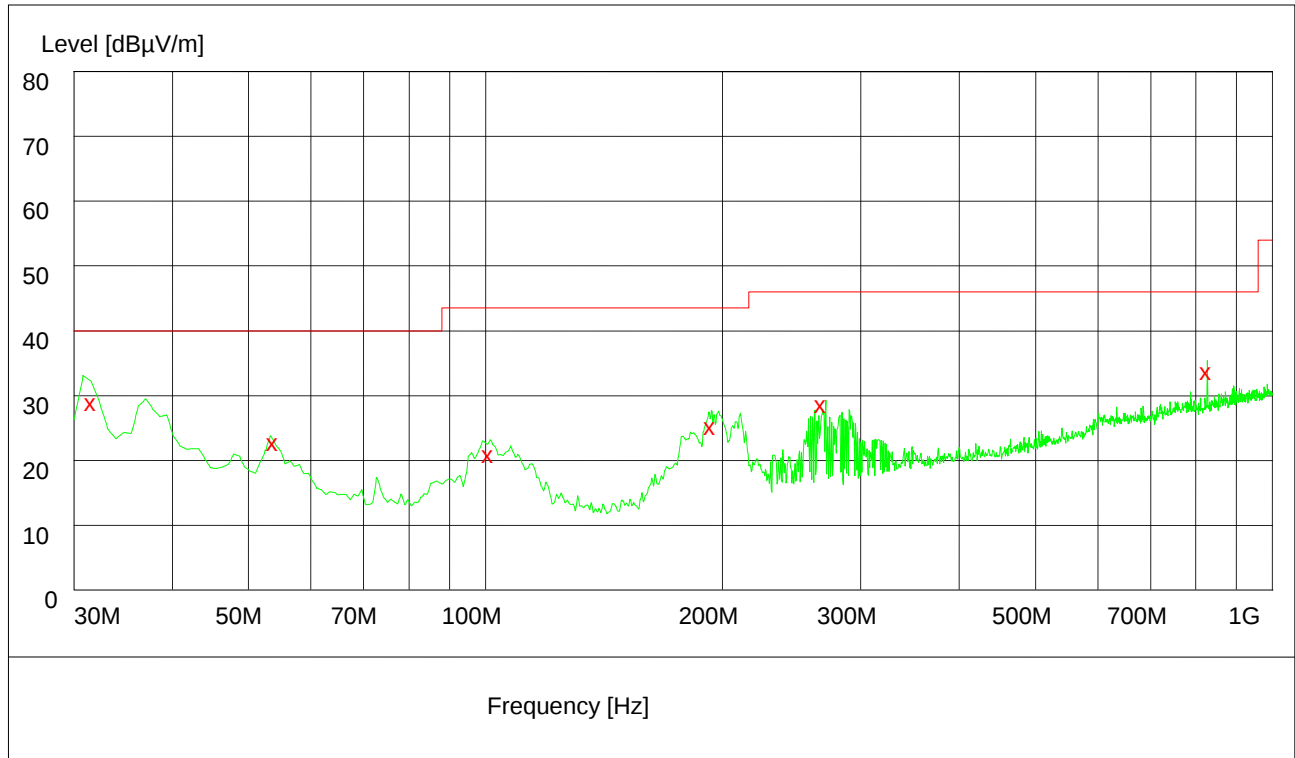
### Part 1: Testing Range of “30 MHz to 1 GHz”

- Note 1: The test results and plot for testing range of “30 MHz to 1 GHz” showed as below is **the WORST case for all Test Modes and Channels**. This range will not be presented for each Test Mode and each Channel.
- Note 2: **The emissions in this range are mainly from the Platform Device (Notepad PC and its ancillary components).**

## Part 1: Testing Range of “30 MHz to 1 GHz”

Note 1: The test results and plot for testing range of “30 MHz to 1 GHz” showed as below is **the WORST case for all Test Modes and Channels**. This range will not be presented for each Test Mode and each Channel.

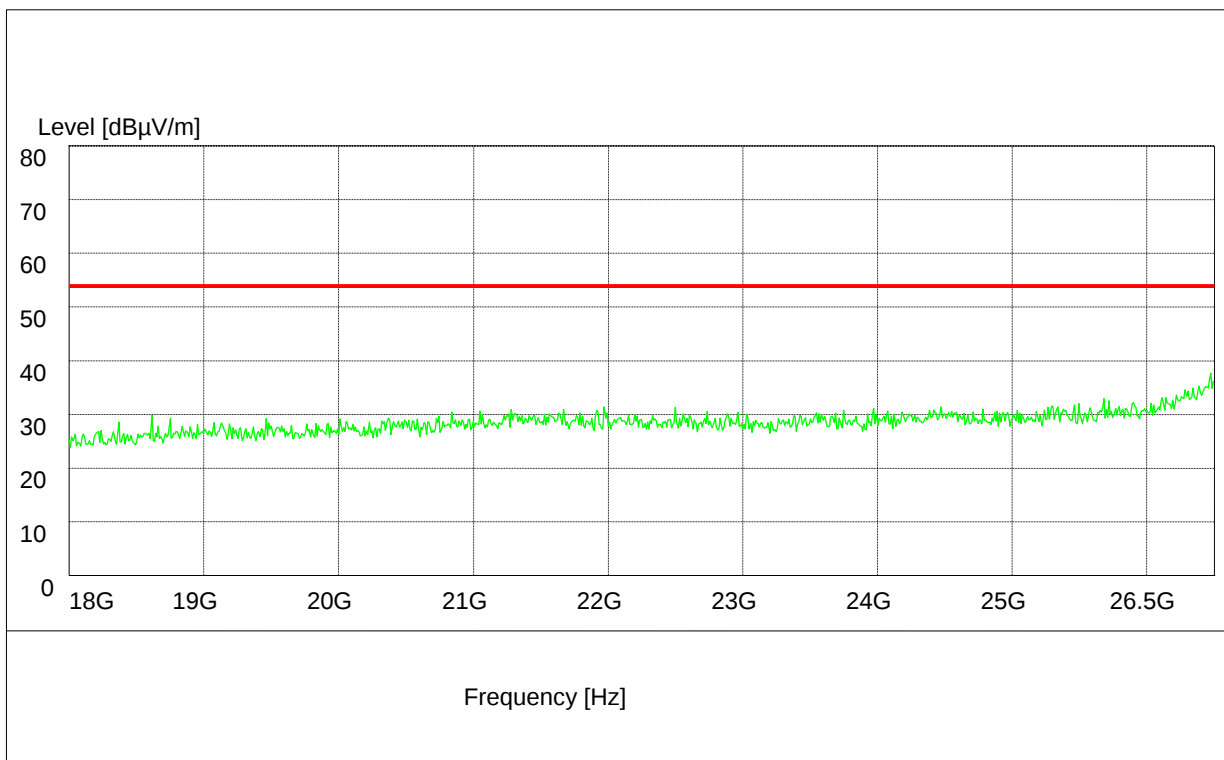
Note 2: **The emissions in this range are mainly from the Platform Device (Notepad PC and its ancillary components).**



| Frequency MHz | Level dBμV/m | Transd dB | Limit dBμV/m | Margin dB | Height cm | Azimuth deg | Plarization |
|---------------|--------------|-----------|--------------|-----------|-----------|-------------|-------------|
| 31.620000     | 29.50        | 14.7      | 40.0         | 10.5      | 100.0     | 301.00      | VERTICAL    |
| 53.880000     | 23.40        | 14.7      | 40.0         | 16.6      | 100.0     | 263.00      | VERTICAL    |
| 101.280000    | 22.50        | 13.5      | 43.5         | 21.0      | 100.0     | 156.00      | VERTICAL    |
| 193.860000    | 25.80        | 12.2      | 43.5         | 17.7      | 146.0     | 309.00      | HORIZONTAL  |
| 267.960000    | 29.20        | 14.3      | 46.0         | 16.8      | 100.0     | 0.00        | HORIZONTAL  |
| 826.440000    | 34.30        | 24.0      | 46.0         | 11.7      | 111.0     | 213.00      | VERTICAL    |

**Part 2: Testing Range of “18 GHz to 26.5 GHz”**

Note: No peak found in pre- test.

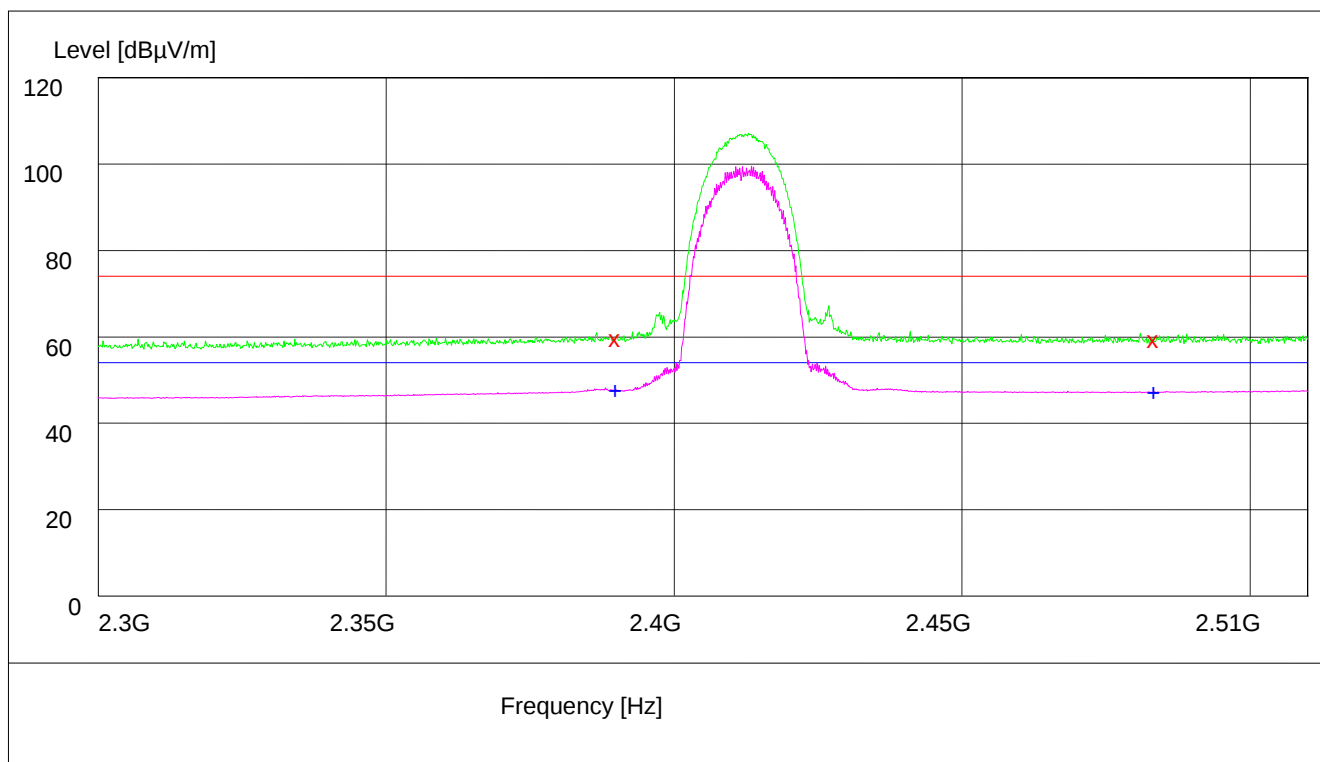


### Part 3: Testing Range of “2.3GHz to 2.5GHz”

- Note 1: The test results and plot for testing range of “2.3 GHz to 2.5 GHz” showed as below is **the WORST case for all Test Modes and Channels**. The testing range of “2.3 GHz to 2.5 GHz” is for checking radiated emissions located in restricted bands near the EUT operating bands.
- Note 2: Two limits are required in the testing range above 1 GHz, that is Peak limit (74 dB $\mu$ V/m) and Average Limit (54 dB $\mu$ V/m).
- Note 3: The peak spike exceeds the limit line is EUT’s operating frequency.

## Test Mode: 11b

### Channel 01



Note: The peak exceeds the limit line is carrier frequency.

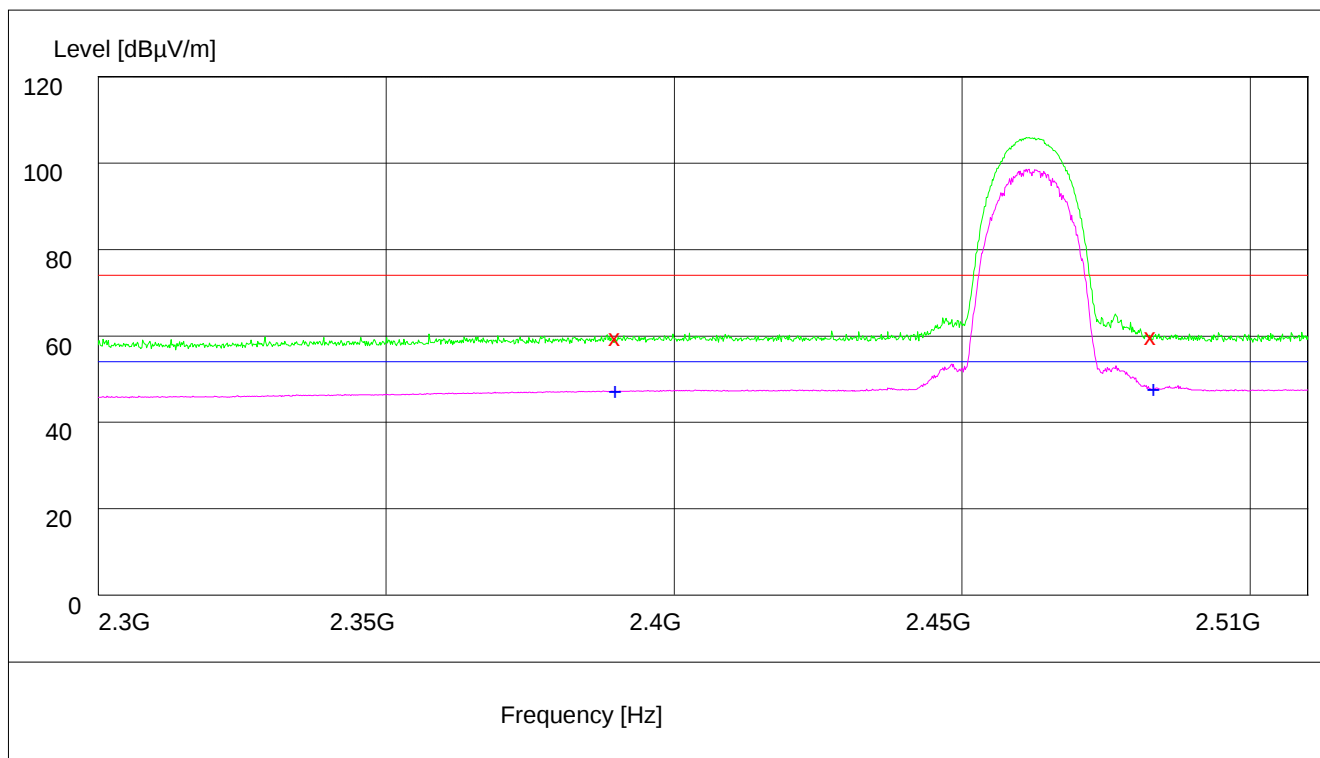
MEASUREMENT RESULT: PK Detector

| Frequency<br>MHz | Level<br>dB $\mu$ V/m | Transd<br>dB | Limit<br>dB $\mu$ V/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------------|--------------|-----------------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 60.50                 | 34.8         | 74.0                  | 13.5         | 150.0        | 49.00          | HORIZONTAL   |
| 2483.500000      | 60.40                 | 35.1         | 74.0                  | 13.6         | 100.0        | 357.00         | HORIZONTAL   |

MEASUREMENT RESULT: AVDetector

| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 48.40           | 34.8         | 54.0            | 6.6          | 100.0        | 129.00         | HORIZONTAL   |
| 2483.500000      | 48.10           | 35.1         | 54.0            | 6.9          | 133.0        | 360.00         | VERTICAL     |

## Channel 11



Note: The peak exceeds the limit line is carrier frequency.

MEASUREMENT RESULT: PK Detector

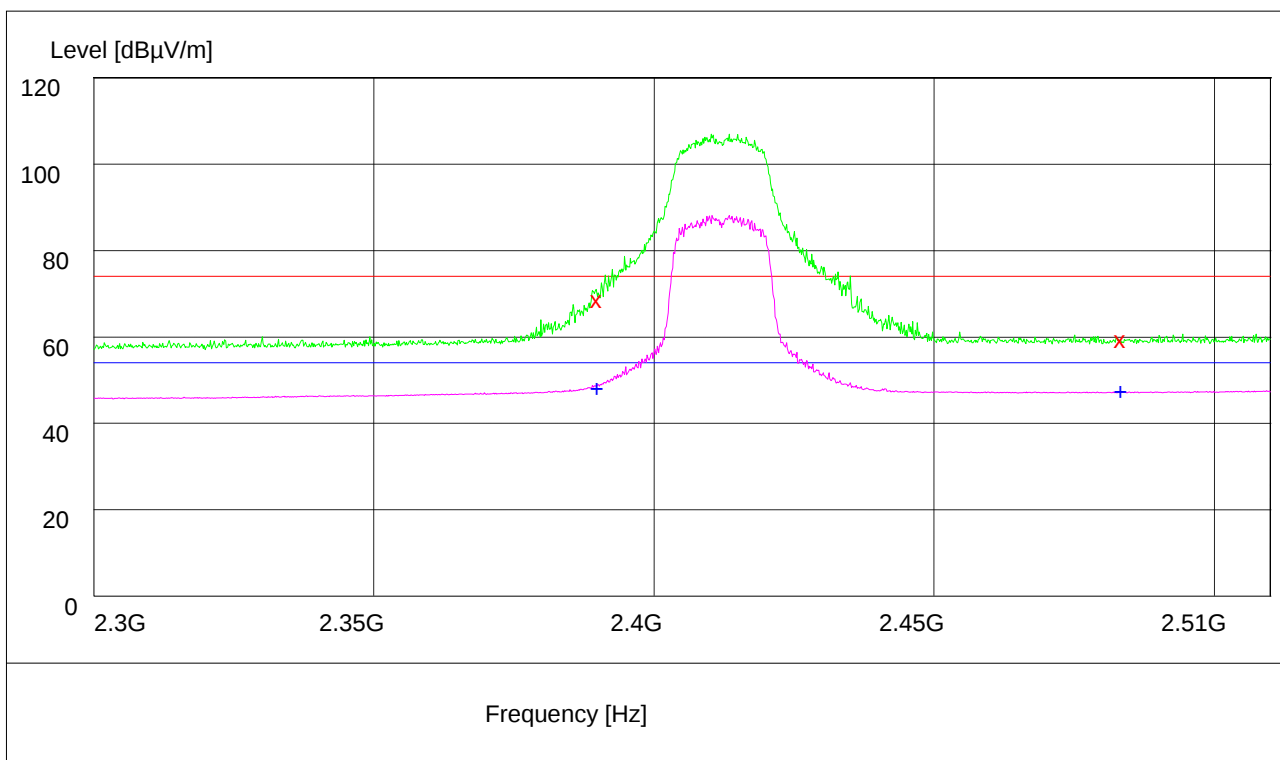
| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 60.50           | 34.8         | 74.0            | 13.5         | 134.0        | 84.00          | VERTICAL     |
| 2483.000000      | 60.80           | 35.1         | 74.0            | 13.2         | 100.0        | 186.00         | VERTICAL     |

MEASUREMENT RESULT: AVDetector

| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 48.00           | 34.8         | 54.0            | 6.0          | 150.0        | 0.00           | HORIZONTAL   |
| 2483.500000      | 48.40           | 35.1         | 54.0            | 5.6          | 100.0        | 336.00         | VERTICAL     |

# Test Mode: 11g

## Channel 01



Note: The peak exceeds the limit line is carrier frequency.

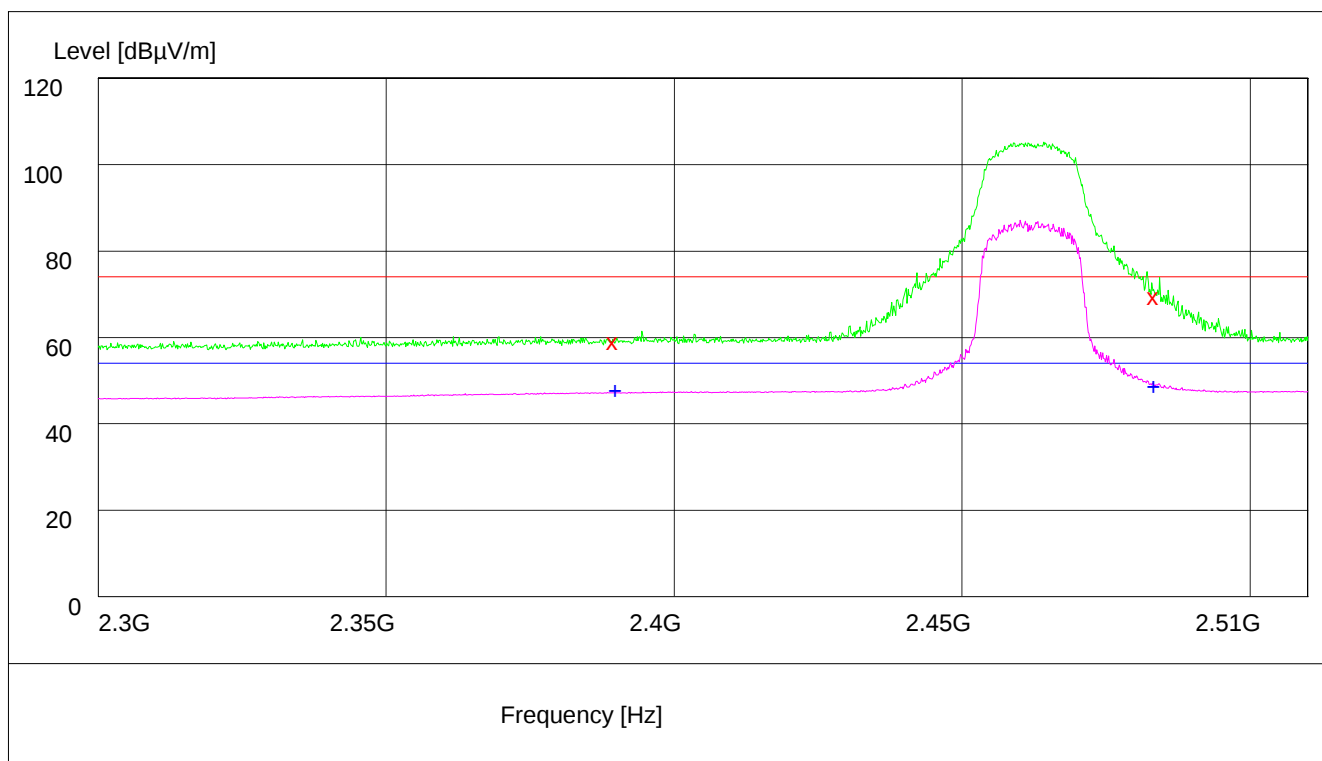
MEASUREMENT RESULT: PK Detector

| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 69.50           | 34.8         | 74.0            | 4.5          | 100.0        | 134.00         | HORIZONTAL   |
| 2483.500000      | 60.30           | 35.1         | 74.0            | 13.7         | 100.0        | 82.00          | HORIZONTAL   |

MEASUREMENT RESULT: AVDetector

| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 48.90           | 34.8         | 54.0            | 5.1          | 100.0        | 106.00         | HORIZONTAL   |
| 2483.500000      | 48.30           | 35.1         | 54.0            | 5.7          | 100.0        | 335.00         | HORIZONTAL   |

## Channel 11



Note: The peak exceeds the limit line is carrier frequency.

MEASUREMENT RESULT: PK Detector

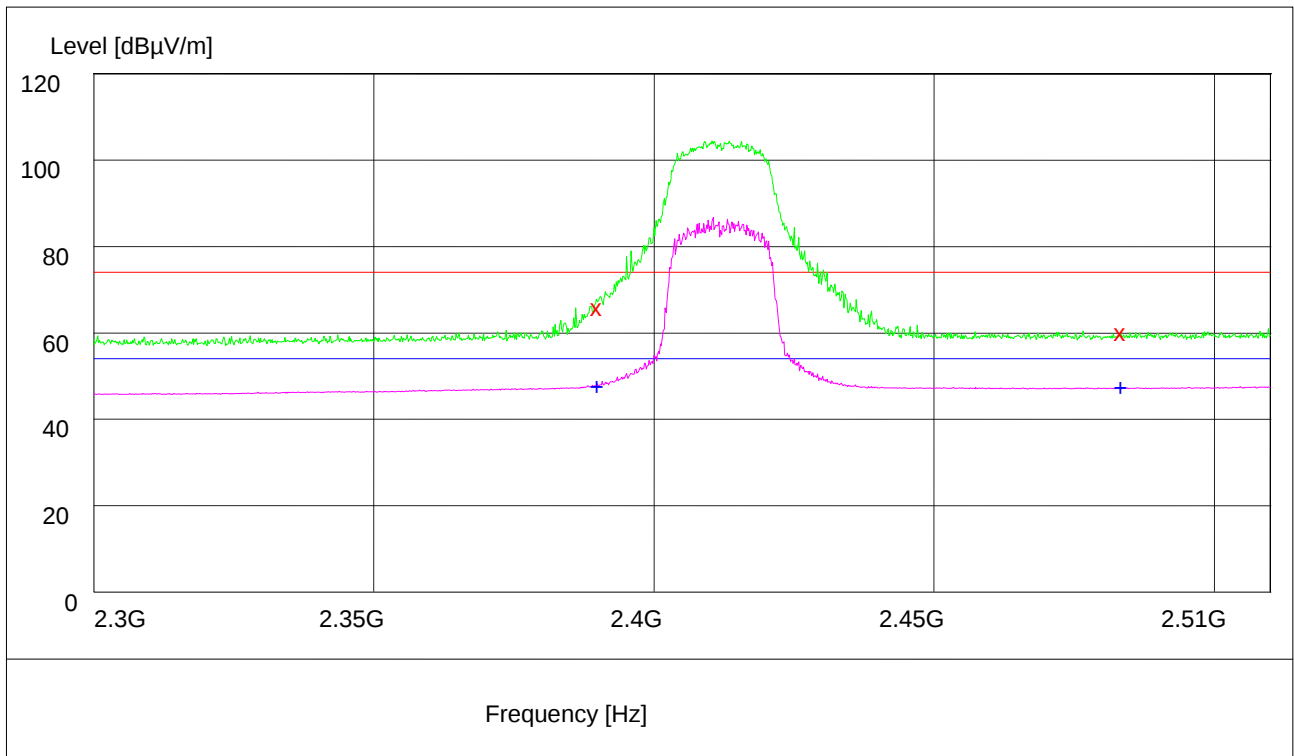
| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2389.540000      | 59.00           | 34.8         | 74.0            | 15.0         | 146.0        | 282.00         | HORIZONTAL   |
| 2483.500000      | 69.40           | 35.1         | 74.0            | 4.6          | 100.0        | 358.00         | VERTICAL     |

MEASUREMENT RESULT: AVDetector

| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.040000      | 47.60           | 34.8         | 54.0            | 6.4          | 147.0        | 314.00         | VERTICAL     |
| 2483.500000      | 48.50           | 35.1         | 54.0            | 5.5          | 102.0        | 334.00         | VERTICAL     |

# Test Mode: 11n

## Channel 01



Note: The peak exceeds the limit line is carrier frequency.

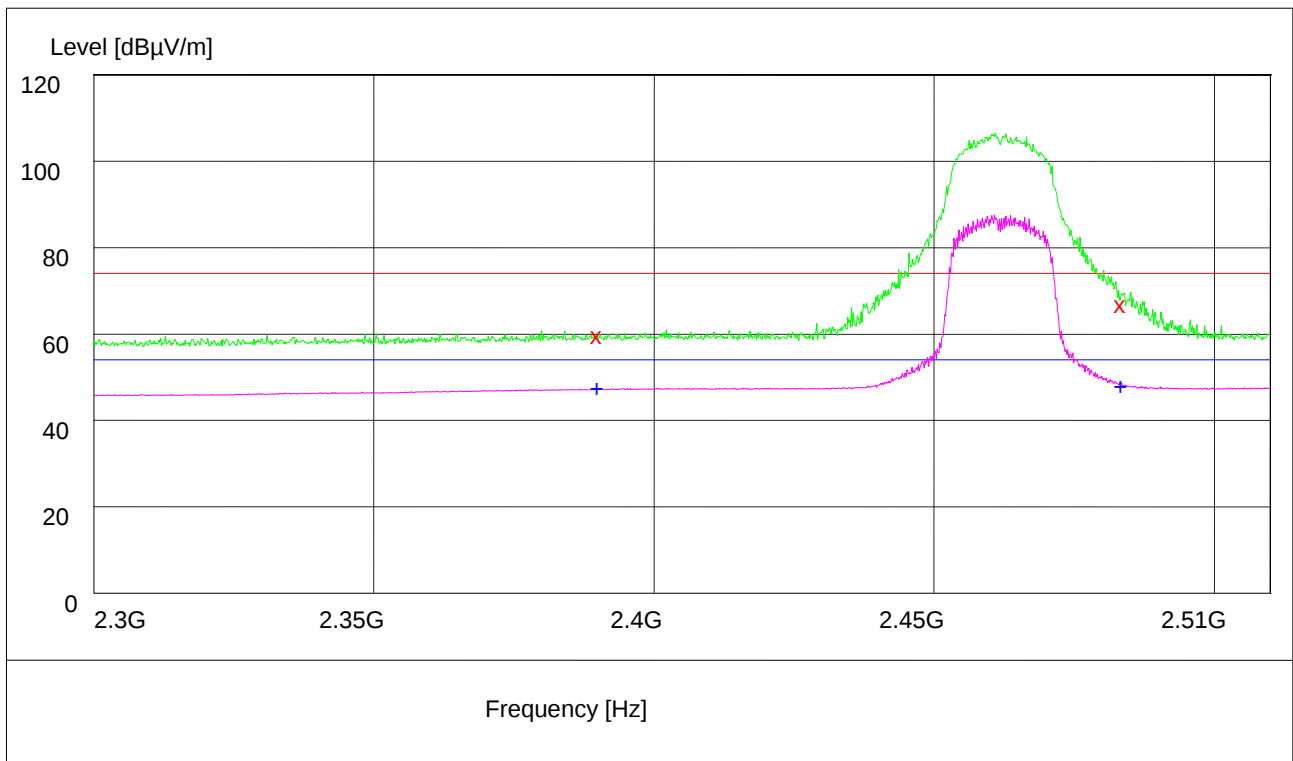
MEASUREMENT RESULT: PK Detector

| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 66.30           | 34.8         | 74.0            | 7.7          | 102.0        | 107.00         | HORIZONTAL   |
| 2483.500000      | 60.50           | 35.1         | 74.0            | 13.5         | 102.0        | 52.00          | VERTICAL     |

MEASUREMENT RESULT: AVDetector

| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 48.00           | 34.8         | 54.0            | 6.0          | 100.0        | 104.00         | HORIZONTAL   |
| 2483.500000      | 47.70           | 35.1         | 54.0            | 6.3          | 135.0        | 315.00         | HORIZONTAL   |

## Channel 11



Note: The peak exceeds the limit line is carrier frequency.

### MEASUREMENT RESULT: PK Detector

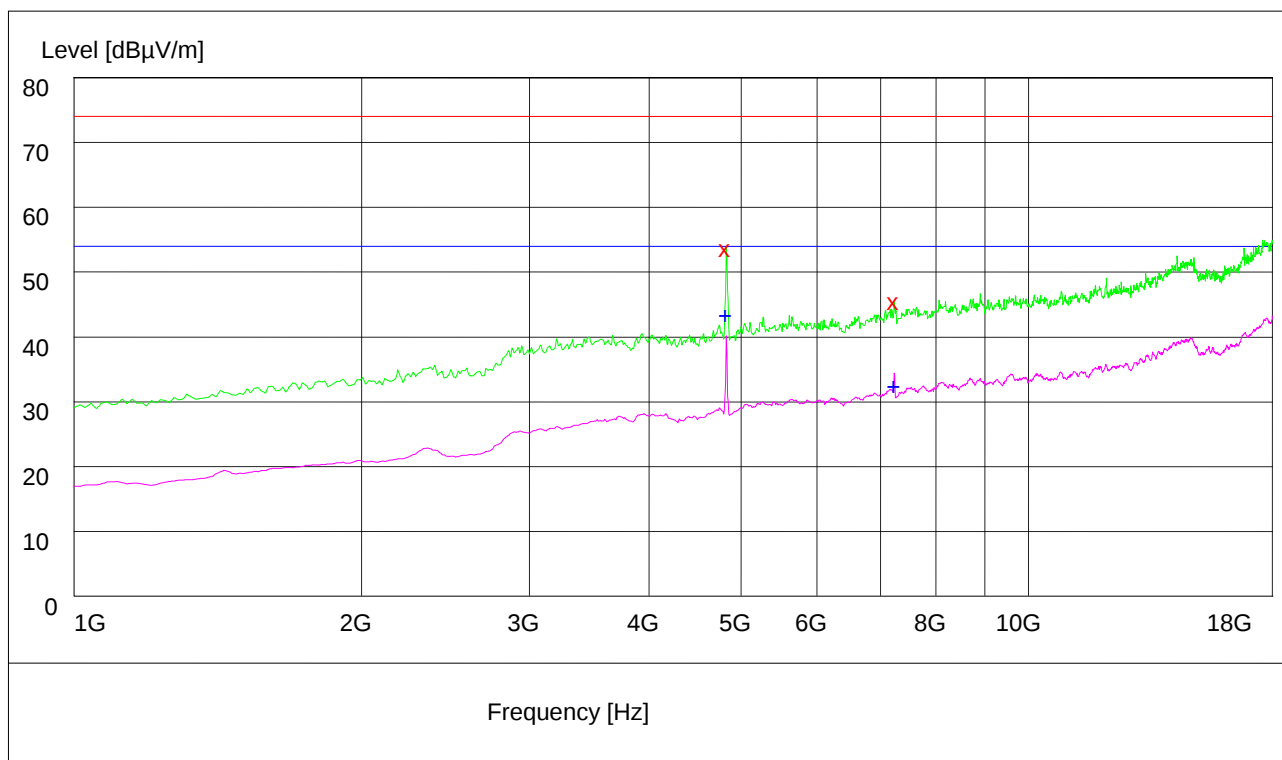
| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 60.50           | 34.8         | 74.0            | 13.5         | 100.0        | 227.00         | HORIZONTAL   |
| 2483.500000      | 67.80           | 35.1         | 74.0            | 6.2          | 100.0        | 111.00         | HORIZONTAL   |

### MEASUREMENT RESULT: AVDetector

| Frequency<br>MHz | Level<br>dBμV/m | Transd<br>dB | Limit<br>dBμV/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 2390.000000      | 48.20           | 34.8         | 54.0            | 5.8          | 114.0        | 14.00          | HORIZONTAL   |
| 2483.500000      | 48.70           | 35.1         | 54.0            | 5.3          | 100.0        | 105.00         | HORIZONTAL   |

#### Part 4: Testing Range of “1 GHz to 18 GHz”

- Note 1: The test results and plot for testing range of “1 GHz to 18 GHz” showed as below is **the WORST case for all Test Modes and Channels**. This range will not be presented for each Test Mode and each Channel.
- Note 2: The testing range of “1 GHz to 18 GHz” is for checking radiated emissions located in restricted bands faraway from the EUT operating bands.
- Note 3: Two limits are required in the testing range above 1 GHz, that is Peak limit (74 dB $\mu$ V/m) and Average Limit (54 dB $\mu$ V/m).



Note: The peak exceeds the limit line is carrier frequency.

#### MEASUREMENT RESULT: PK Detector

| Frequency<br>MHz | Level<br>dB $\mu$ V/m | Transd<br>dB | Limit<br>dB $\mu$ V/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------------|--------------|-----------------------|--------------|--------------|----------------|--------------|
| 4824.100000      | 55.10                 | -2.5         | 74.0                  | 18.9         | 100.0        | 65.00          | HORIZONTAL   |
| 7235.800000      | 47.00                 | 2.2          | 74.0                  | 27.0         | 121.0        | 359.00         | VERTICAL     |

#### MEASUREMENT RESULT: AVDetector

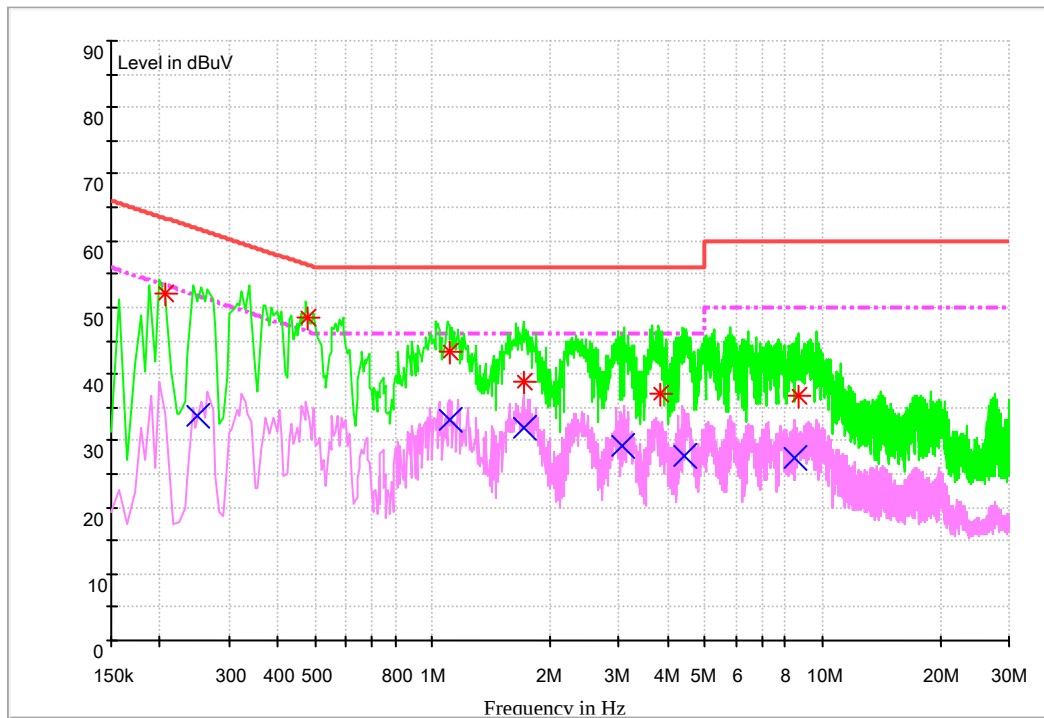
| Frequency<br>MHz | Level<br>dB $\mu$ V/m | Transd<br>dB | Limit<br>dB $\mu$ V/m | Margin<br>dB | Height<br>cm | Azimuth<br>deg | Polarization |
|------------------|-----------------------|--------------|-----------------------|--------------|--------------|----------------|--------------|
| 4824.100000      | 44.80                 | -2.5         | 54.0                  | 9.2          | 103.0        | 85.00          | HORIZONTAL   |
| 7234.800000      | 33.90                 | 2.3          | 54.0                  | 20.1         | 118.0        | 350.00         | VERTICAL     |



## Appendix G: Conducted Emission at Power Port

## Channel 40

CLASS B Voltage with ENV216



### MEASUREMENT RESULT: QP Detector

| Frequency<br>MHz | Level<br>dBμV | Line | Transd<br>dB | Margin<br>dB | Limit<br>dBμV | PE  |
|------------------|---------------|------|--------------|--------------|---------------|-----|
| 0.206032         | 51.9          | N    | 9.7          | 11.5         | 63.4          | FLO |
| 0.479479         | 48.3          | N    | 9.7          | 8.0          | 56.3          | FLO |
| 1.102024         | 43.2          | N    | 9.7          | 12.8         | 56.0          | FLO |
| 1.709531         | 38.8          | N    | 9.7          | 17.2         | 56.0          | FLO |
| 3.814590         | 37.0          | N    | 9.7          | 19.0         | 56.0          | FLO |
| 8.678388         | 36.8          | N    | 9.9          | 23.2         | 60.0          | FLO |

### MEASUREMENT RESULT: AV Detector

| Frequency<br>MHz | Level<br>dBμV | Line | Transd<br>dB | Margin<br>dB | Limit<br>dBμV | PE  |
|------------------|---------------|------|--------------|--------------|---------------|-----|
| 0.248262         | 33.7          | N    | 9.7          | 18.1         | 51.8          | FLO |
| 1.103708         | 33.2          | N    | 9.7          | 12.8         | 46.0          | FLO |
| 1.708586         | 32.1          | N    | 9.7          | 13.9         | 46.0          | FLO |
| 3.065370         | 29.1          | N    | 9.7          | 16.9         | 46.0          | FLO |
| 4.412966         | 27.6          | N    | 9.8          | 18.4         | 46.0          | FLO |
| 8.466660         | 27.3          | N    | 9.9          | 22.7         | 50.0          | FLO |

END

