



# 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]	Ant	DTS6dBBW[MHz]	Verdict
11B	L	2432	Ant 1	7.86	pass
11B	L	2432	Ant 2	7.57	pass
11B	M	2442	Ant 1	8.14	pass
11B	M	2442	Ant 2	8.08	pass
11B	H	2457	Ant 1	7.67	pass
11B	H	2457	Ant 2	7.11	pass
11G	L	2432	Ant 2	16.51	pass
11G	L	2432	Ant 1	16.48	pass
11G	M	2442	Ant 2	16.54	pass
11G	M	2442	Ant 1	16.53	pass
11G	H	2457	Ant 2	16.05	pass
11G	H	2457	Ant 1	15.17	pass
11G	H	2457	Ant 1	16.46	pass
11N20	L	2432	Ant 1	17.68	pass
11N20	L	2432	Ant 2	17.73	pass
11N20	M	2442	Ant 1	17.78	pass
11N20	M	2442	Ant 2	17.76	pass
11N20	H	2457	Ant 1	17.66	pass
11N20	H	2457	Ant 2	16.98	pass
11N20m	L	2432	Ant 1	17.65	pass
11N20m	L	2432	Ant 2	17.70	pass
11N20m	M	2442	Ant 1	17.80	pass
11N20m	M	2442	Ant 2	17.77	pass
11N20m	H	2457	Ant 1	17.65	pass
11N20m	H	2457	Ant 2	16.39	pass
11N40	L	2442	Ant 1	36.51	pass
11N40	L	2442	Ant 2	36.42	pass
11N40	H	2447	Ant 1	36.47	pass



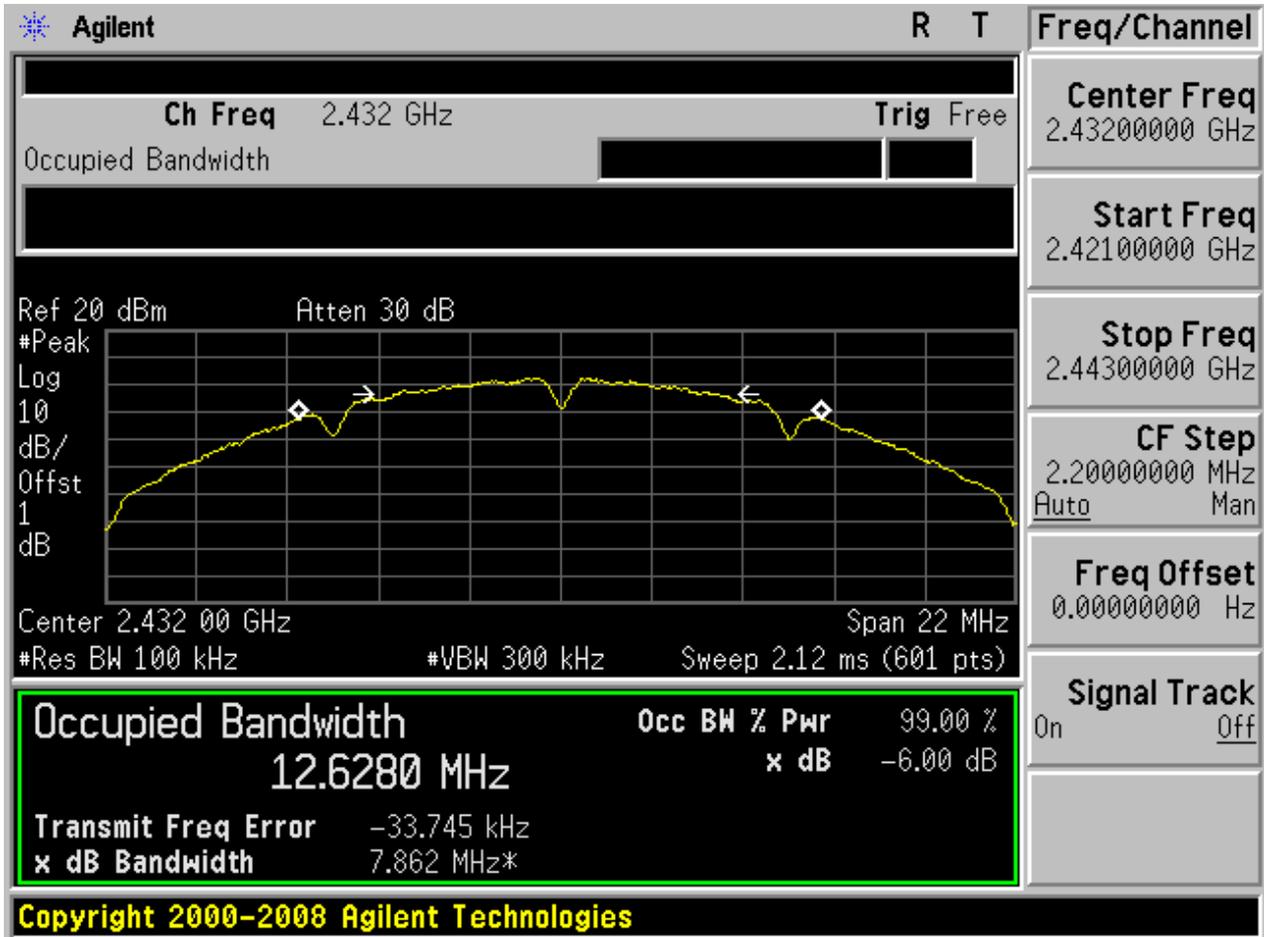
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Test Mode	Test Channel	Frequency[MHz]	Ant	DTS6dBBW[MHz]	Verdict
11N40	H	2447	Ant 2	34.82	pass
11N40m	L	2442	Ant 1	36.47	pass
11N40m	L	2442	Ant 2	36.32	pass
11N40m	H	2447	Ant 1	36.44	pass
11N40m	H	2447	Ant 2	35.73	pass
11N40m	H	2447	Ant 2	34.54	pass



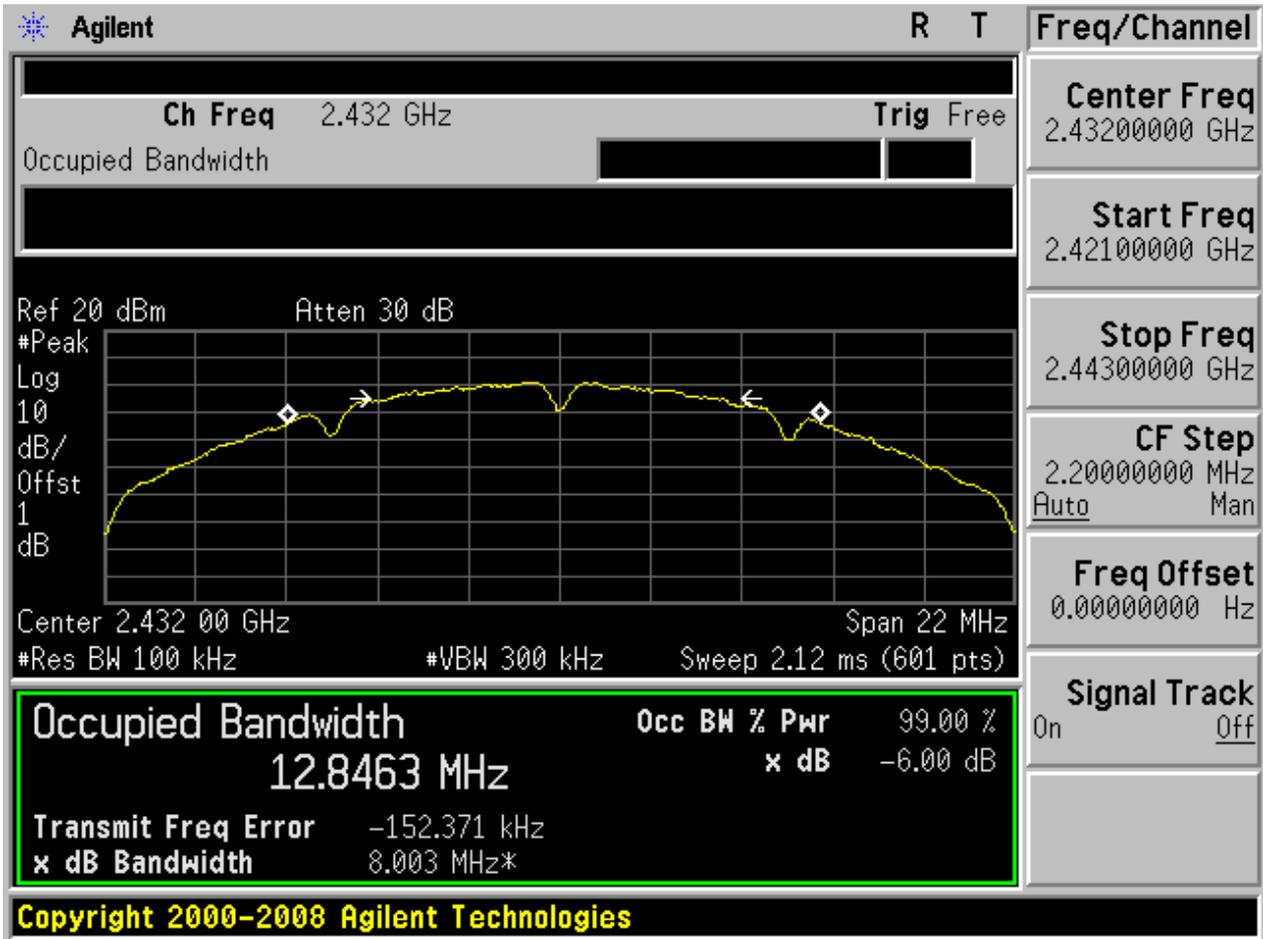
Part II - Test Plots

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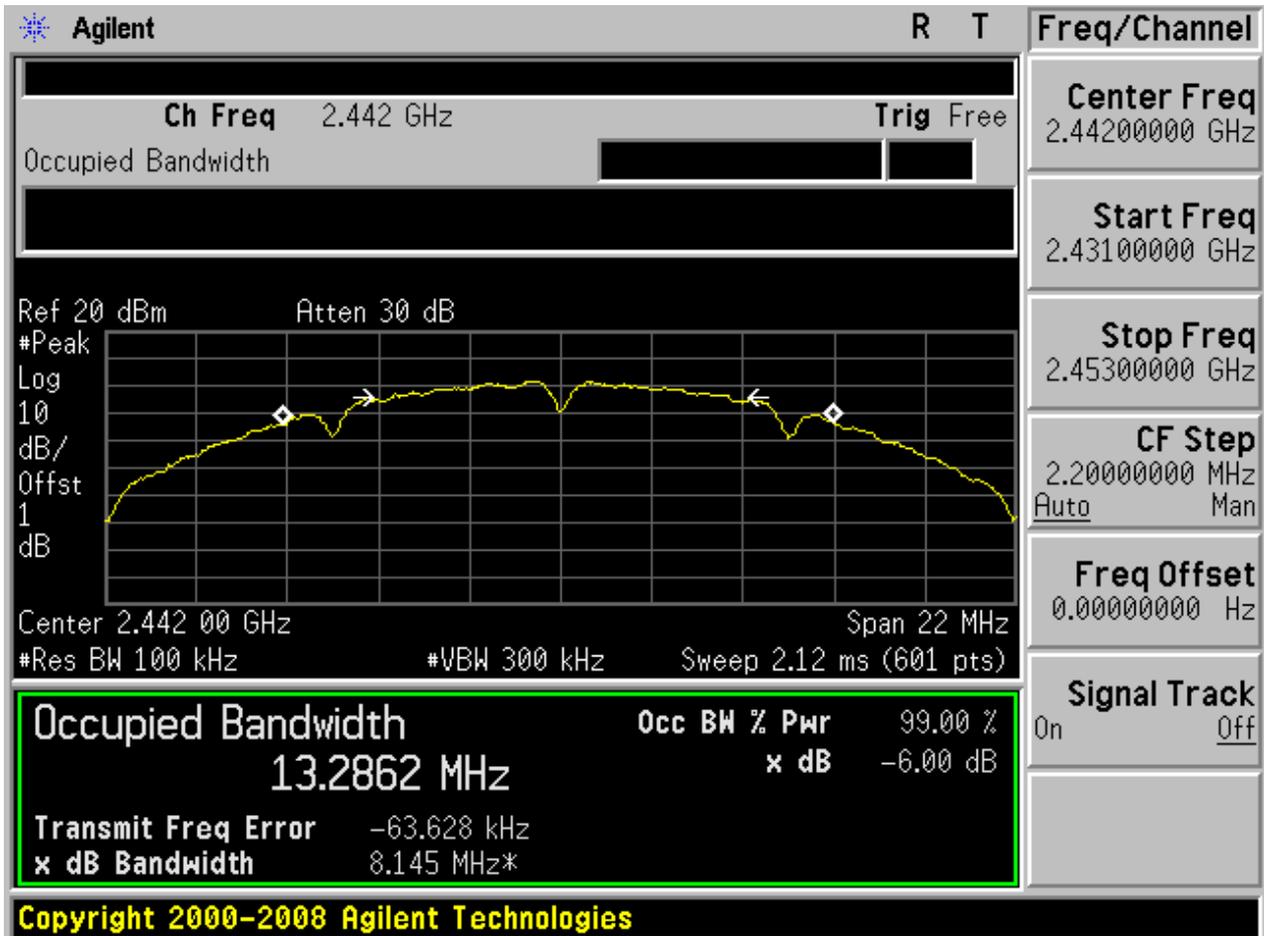


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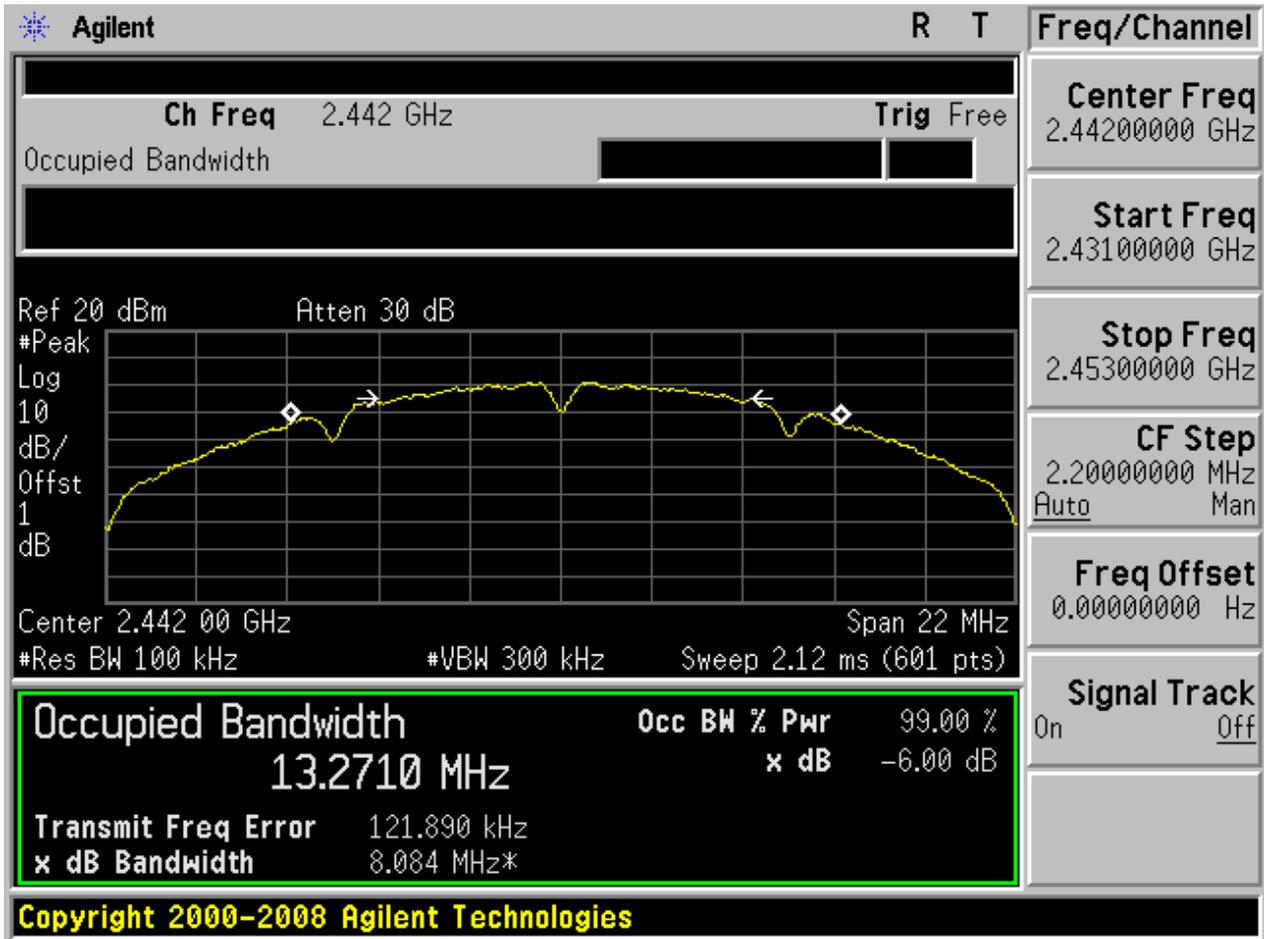


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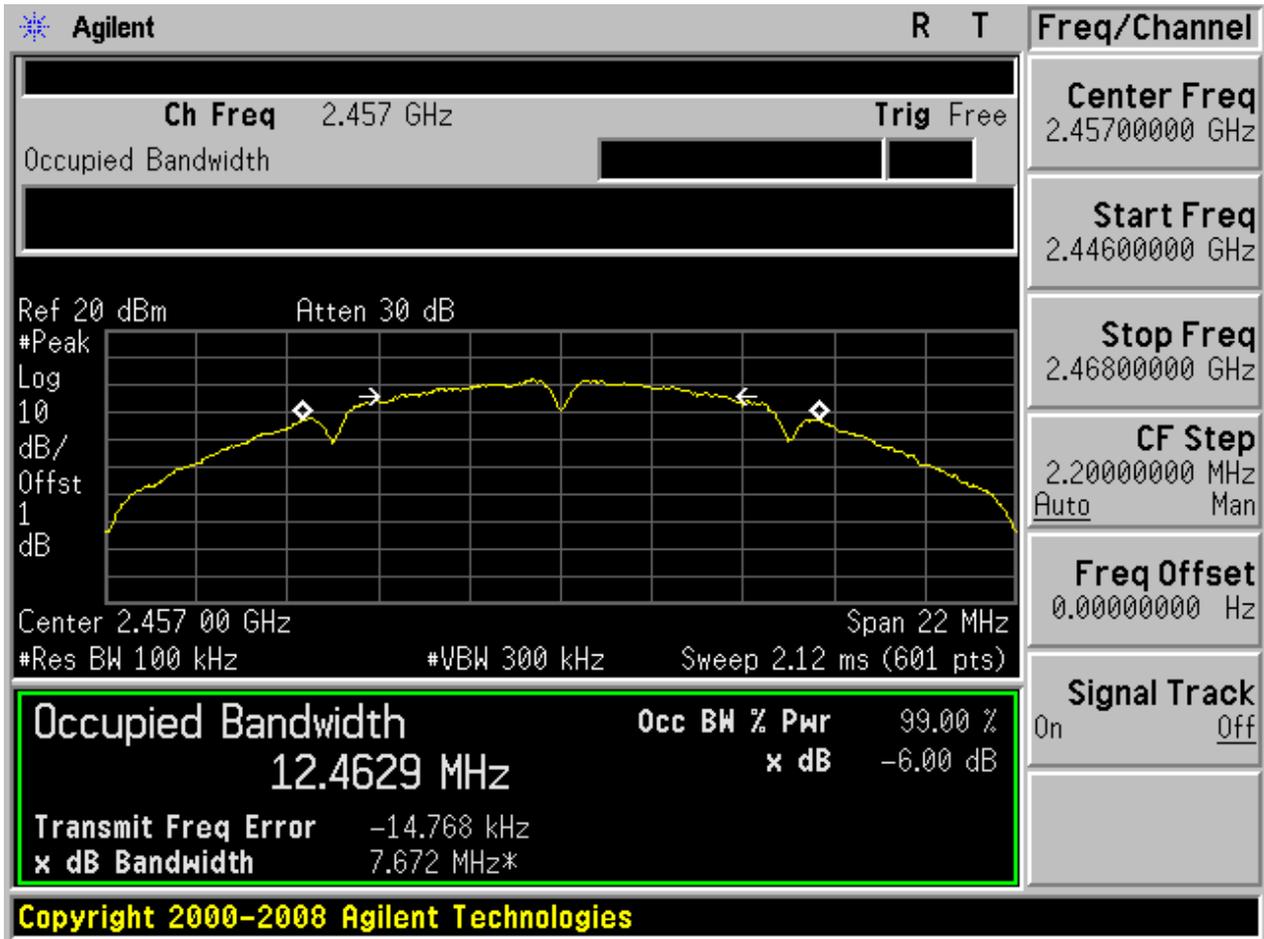


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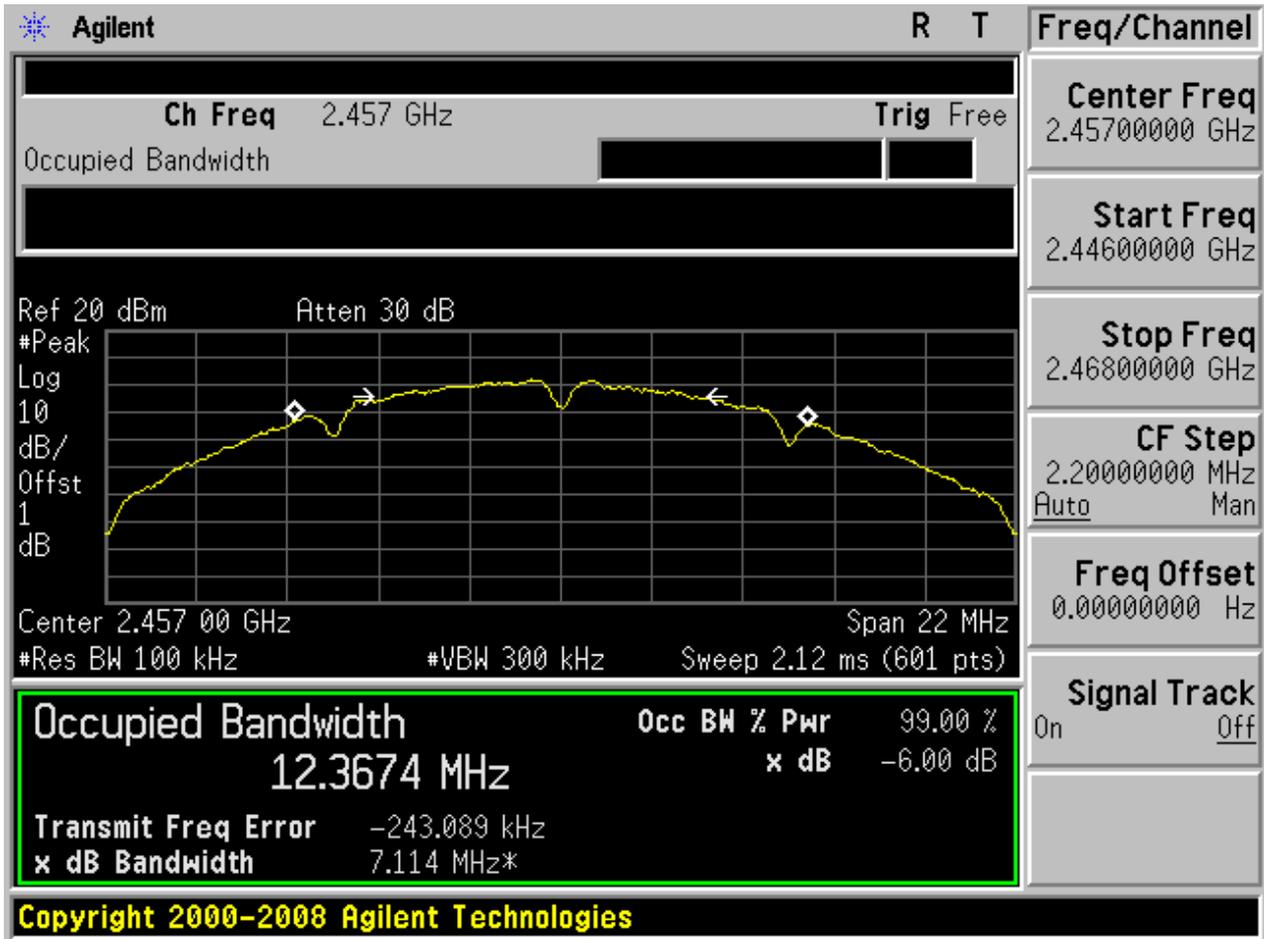


2.5 11B\_H@Ant 1



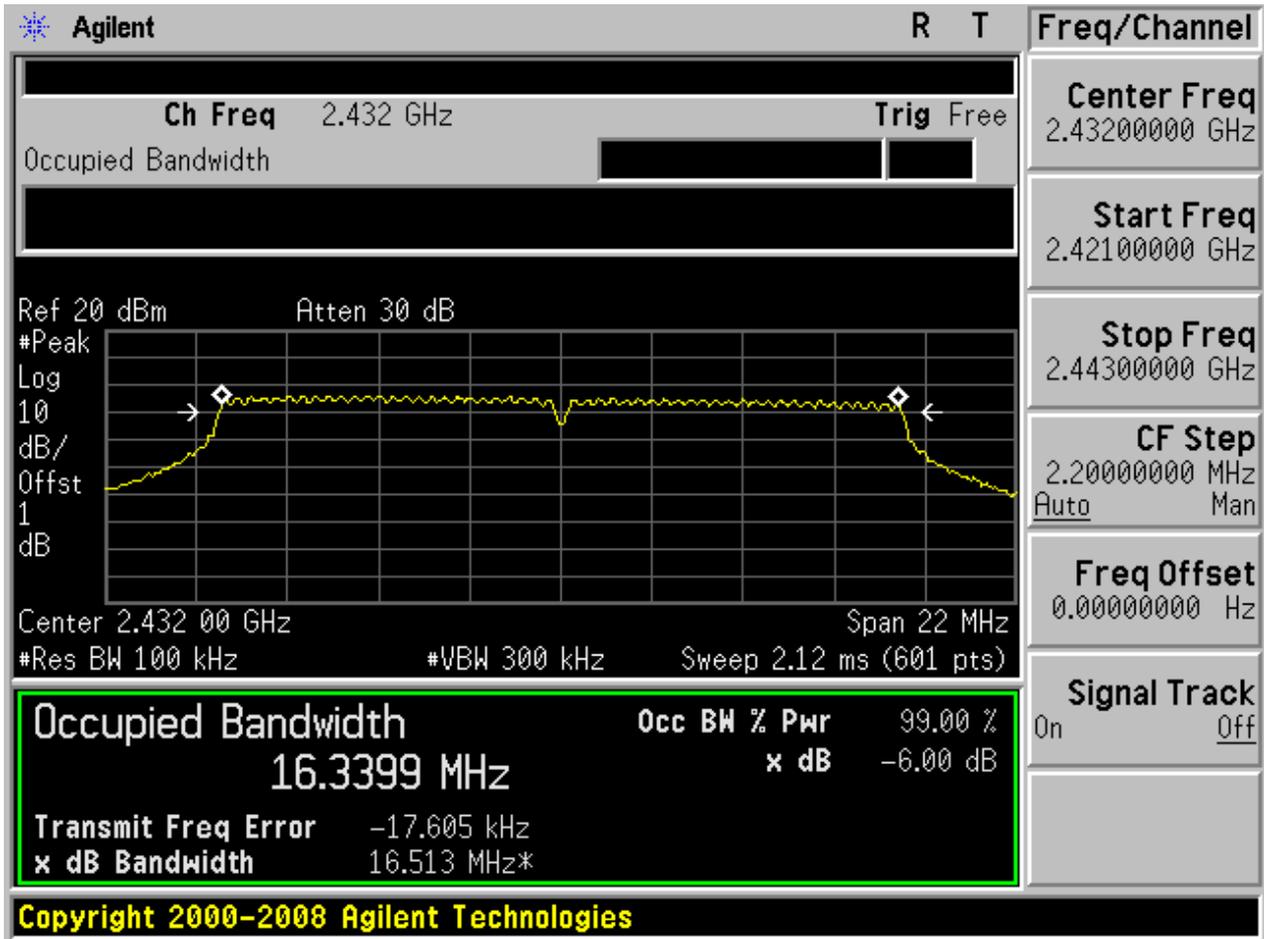


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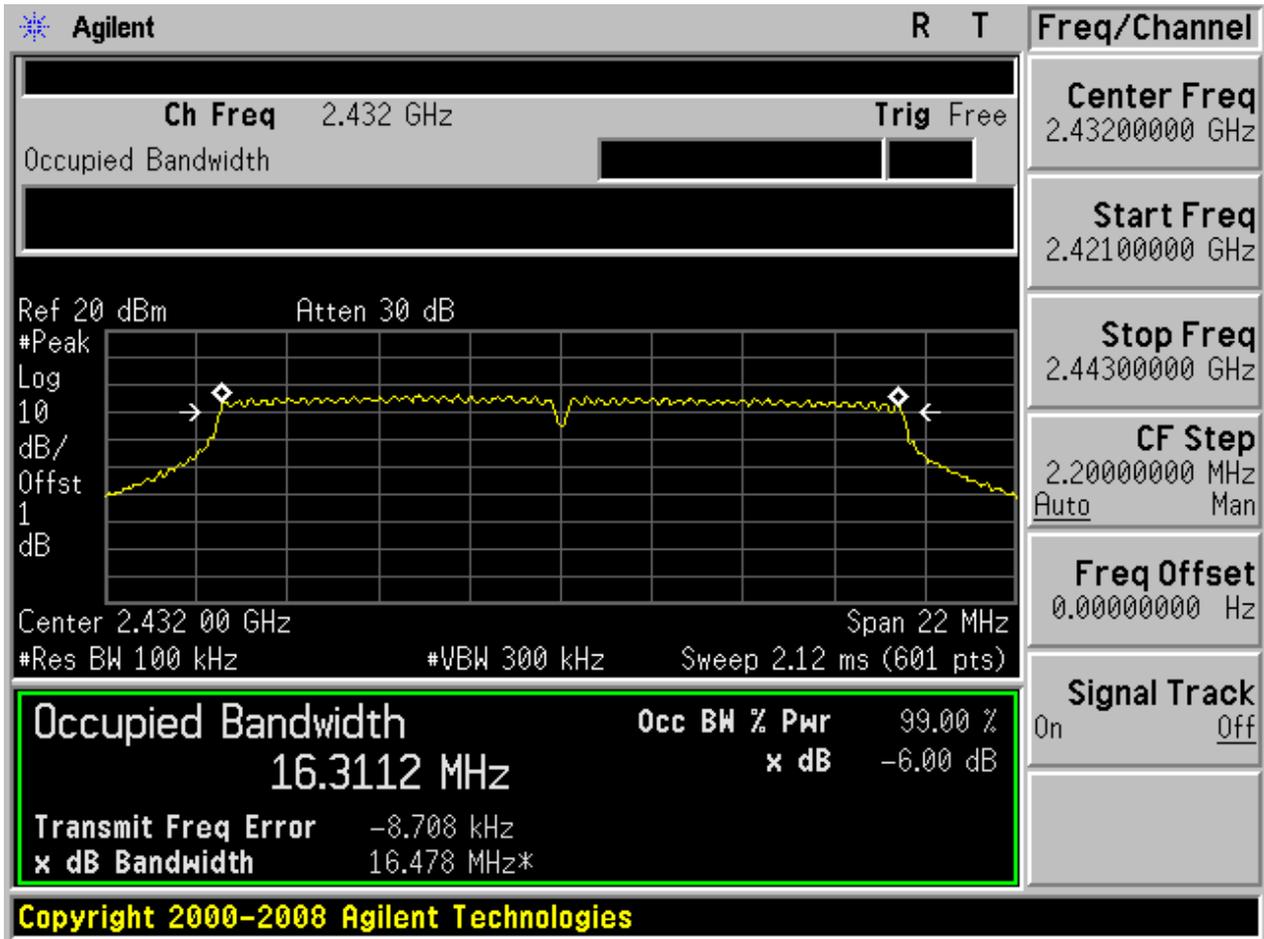


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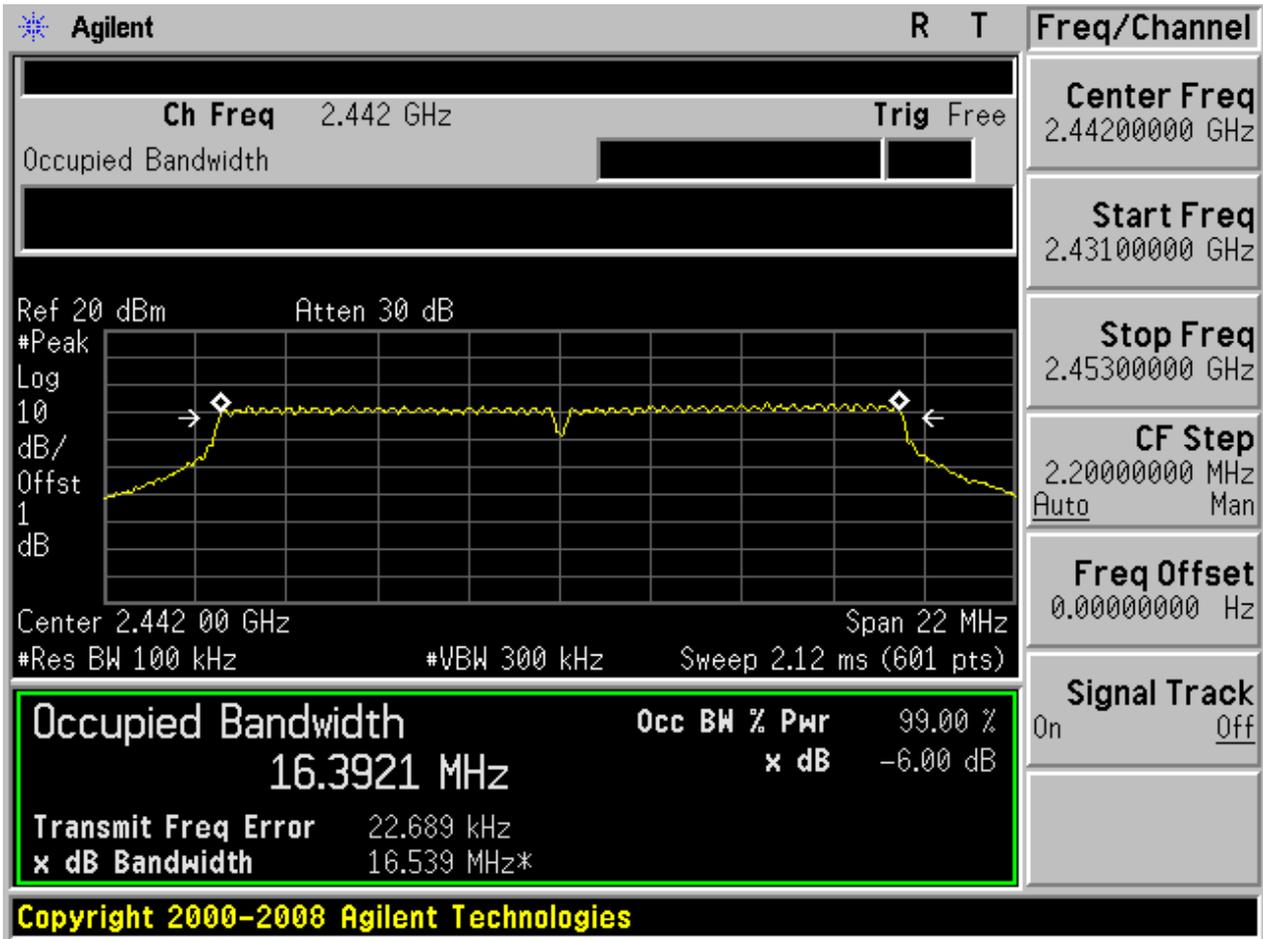


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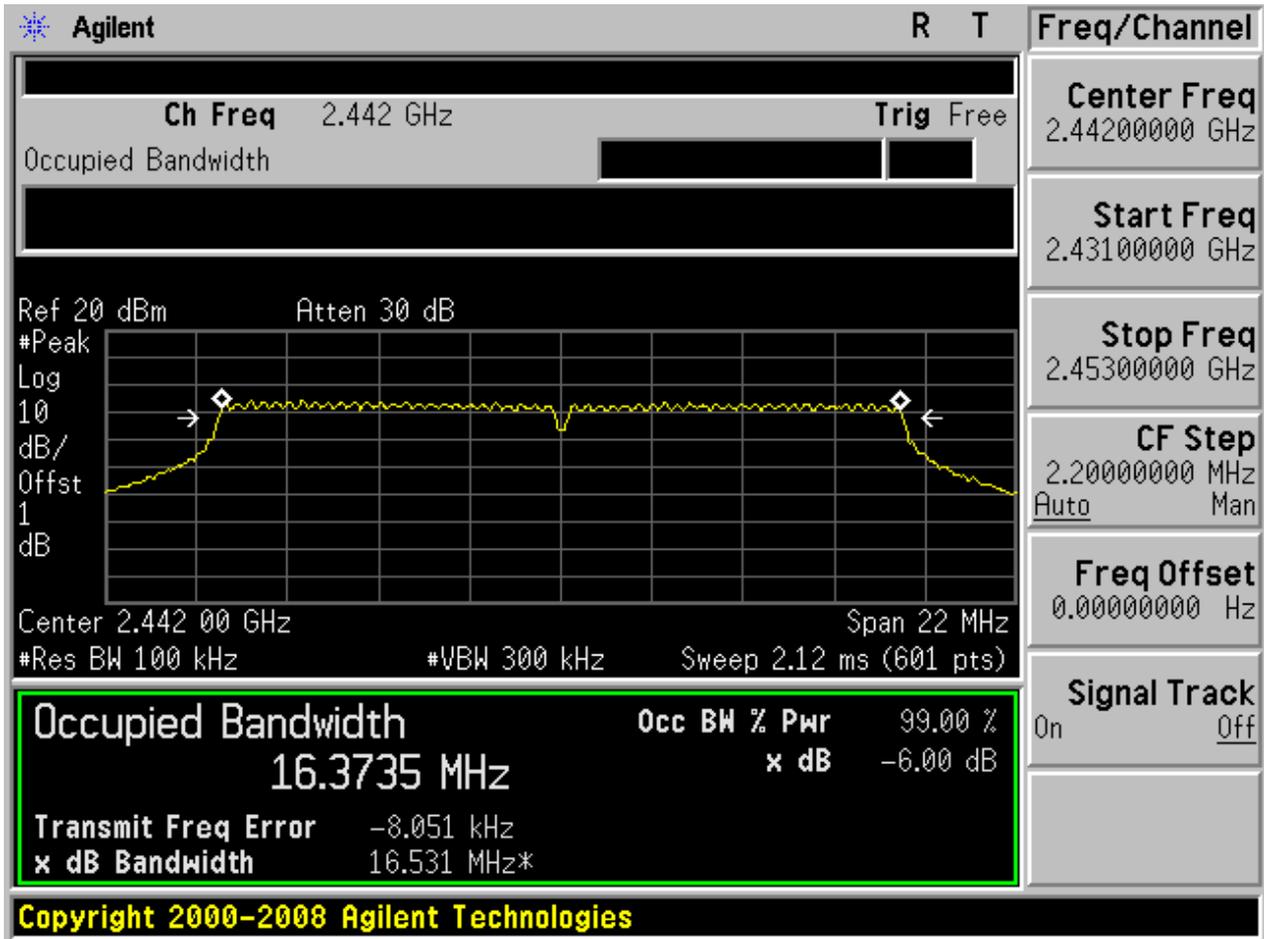


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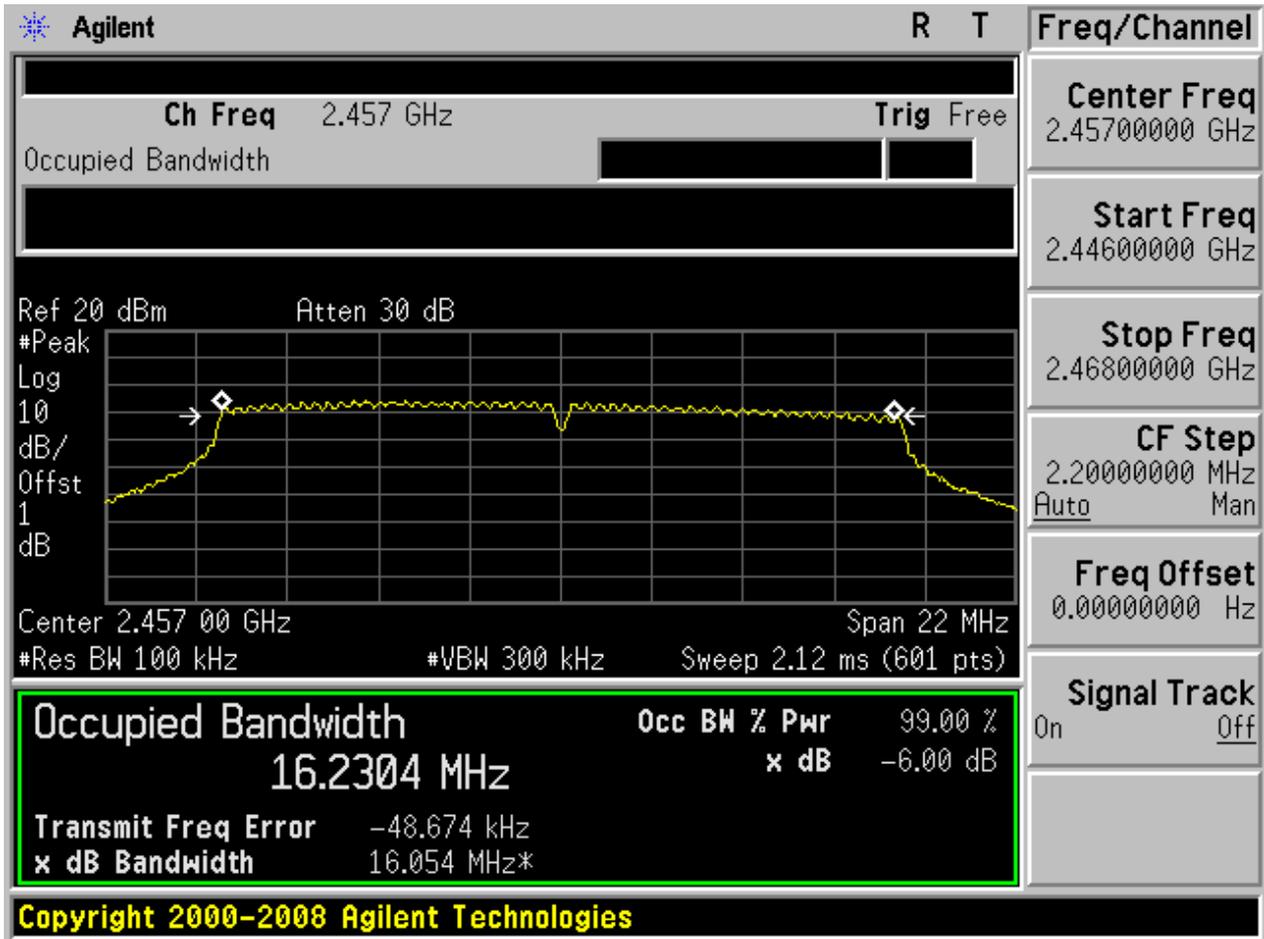


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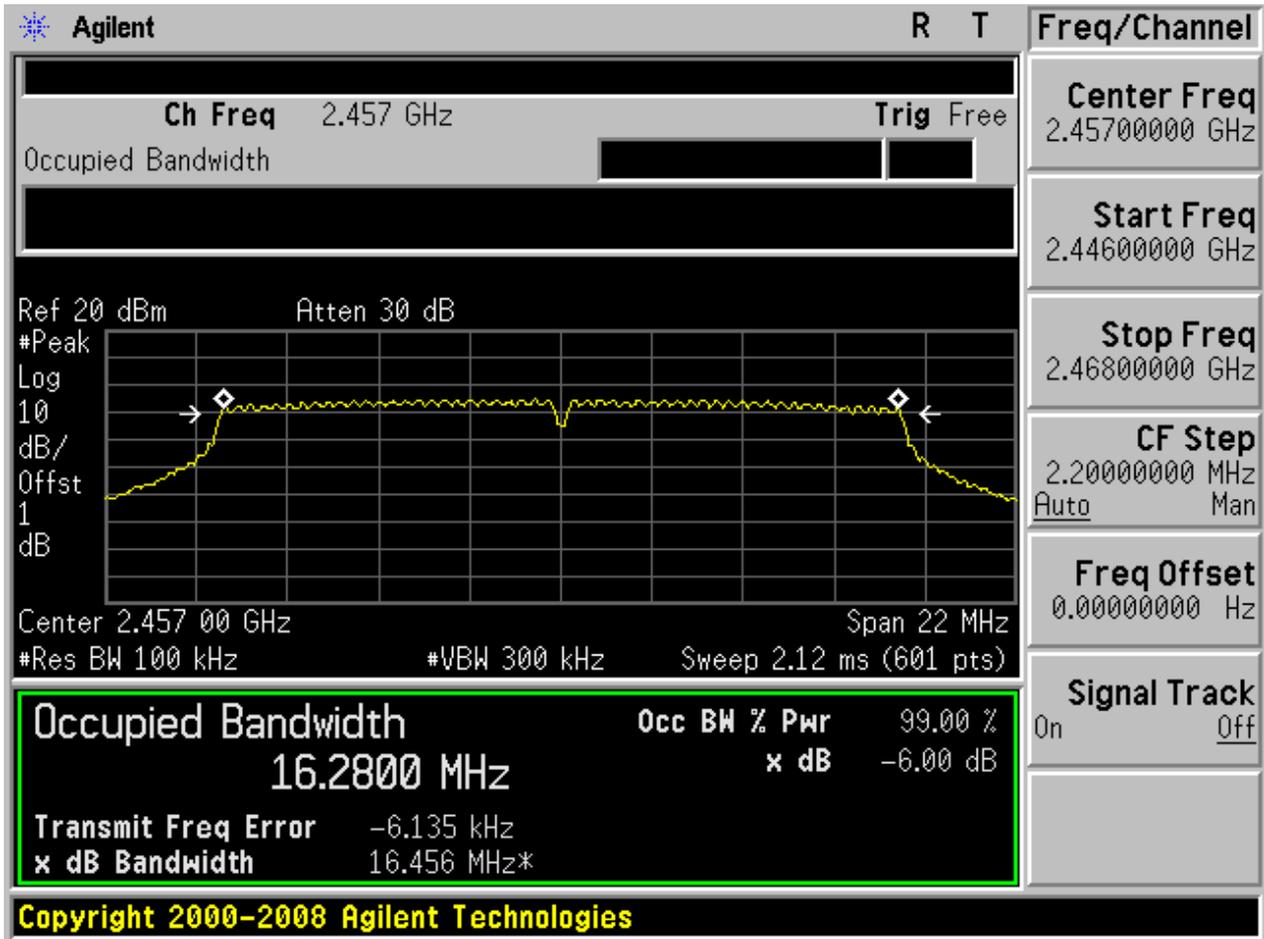




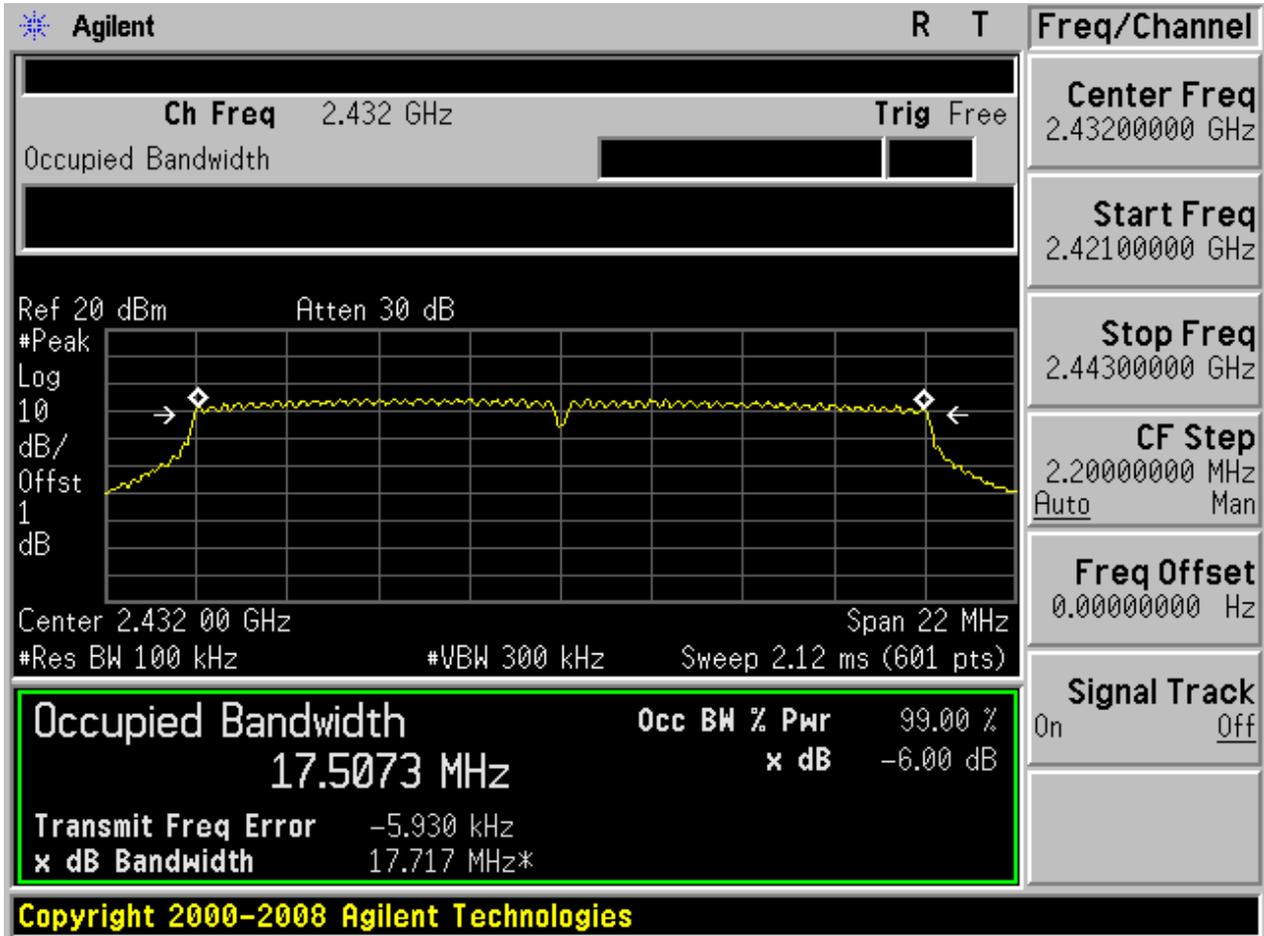
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2.12 11G\_H@Ant 1

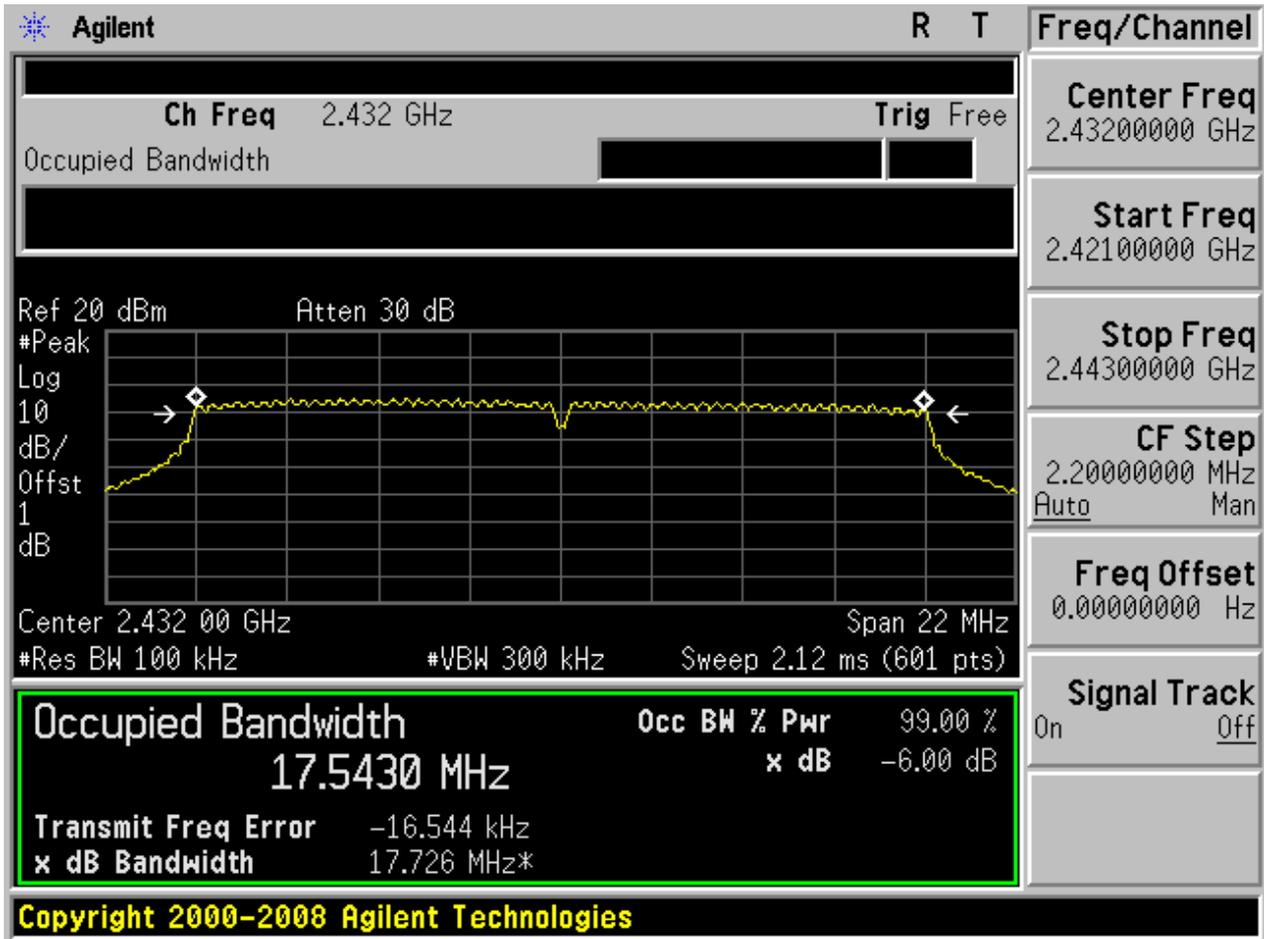


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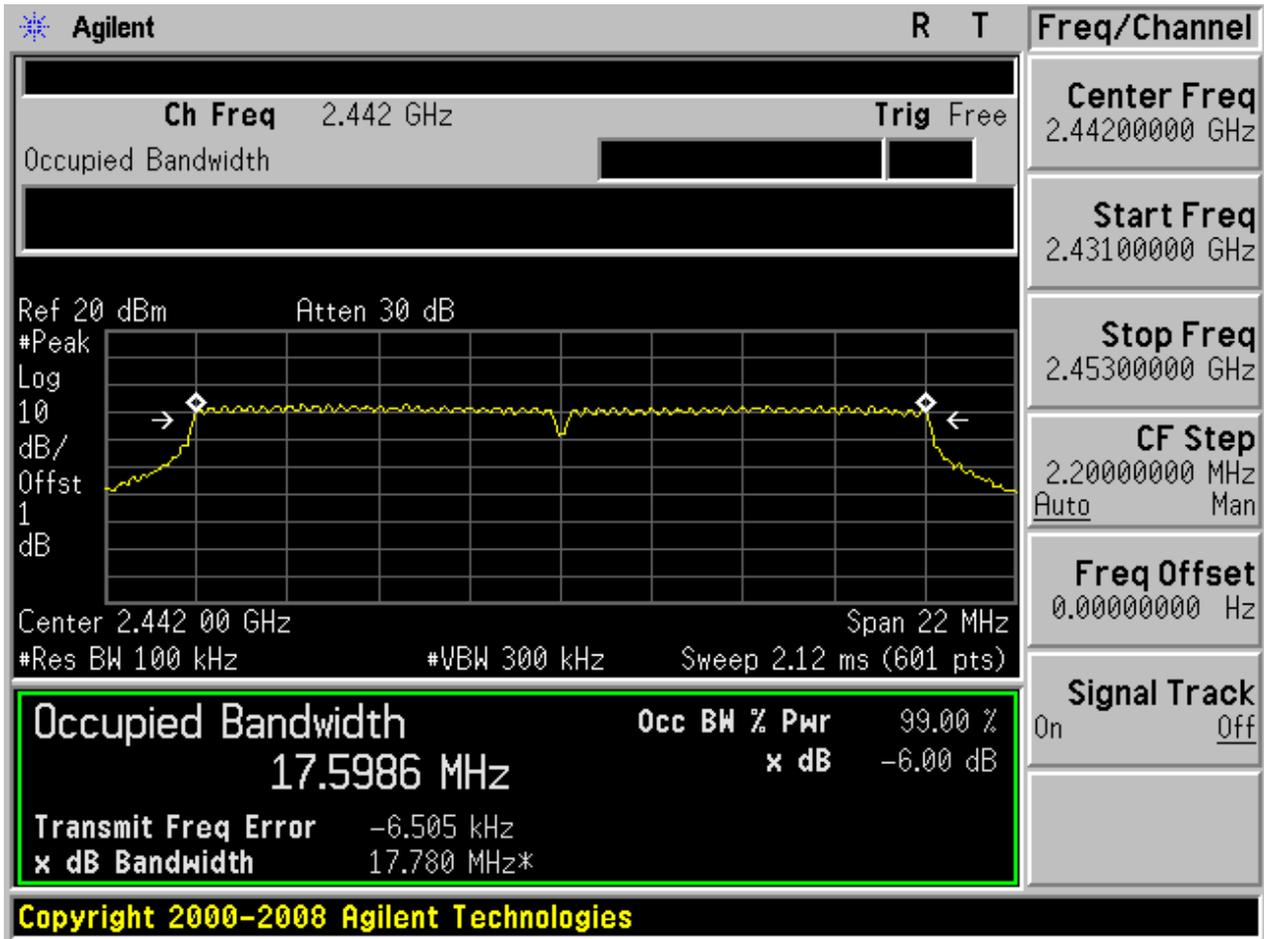


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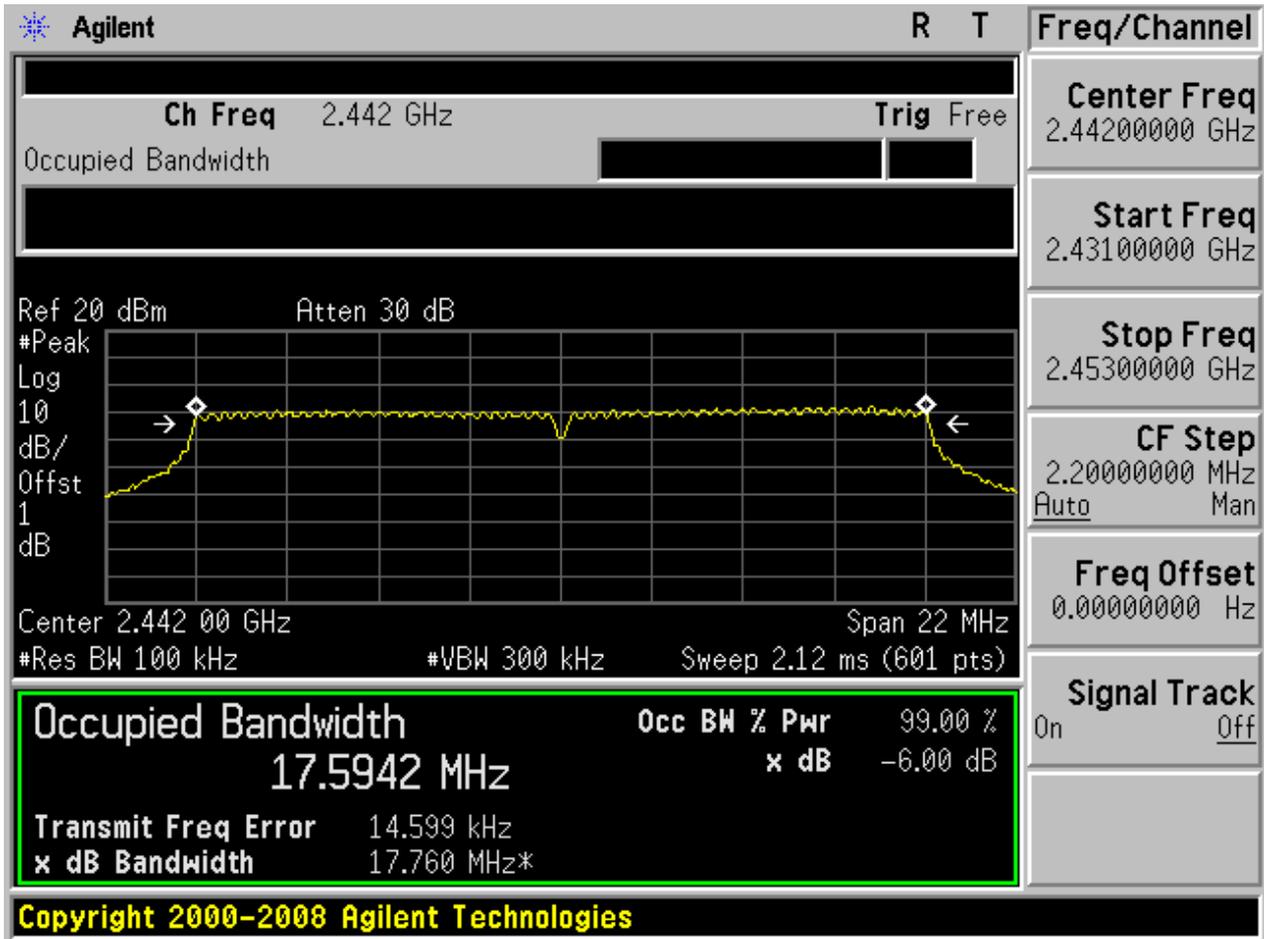


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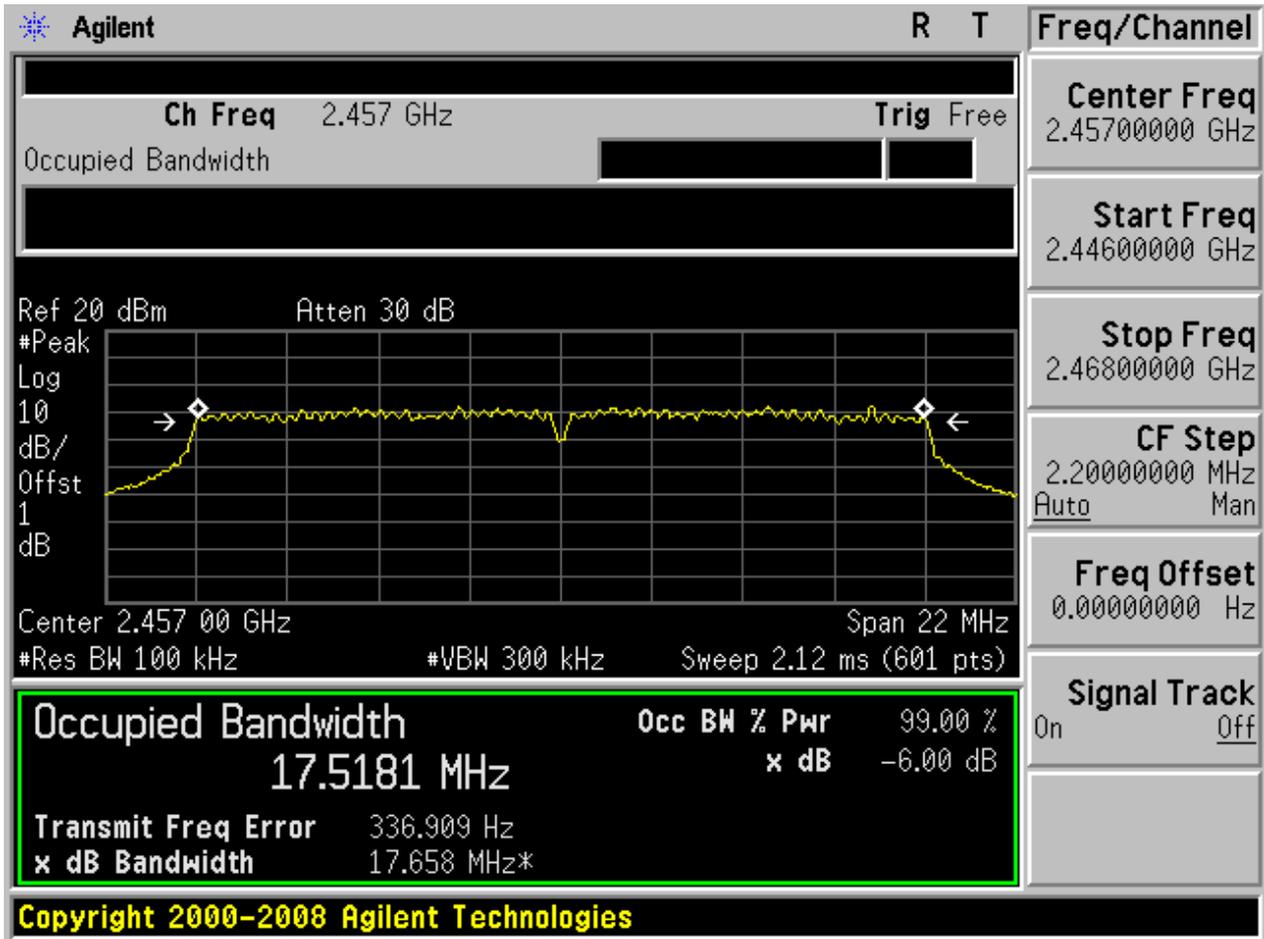


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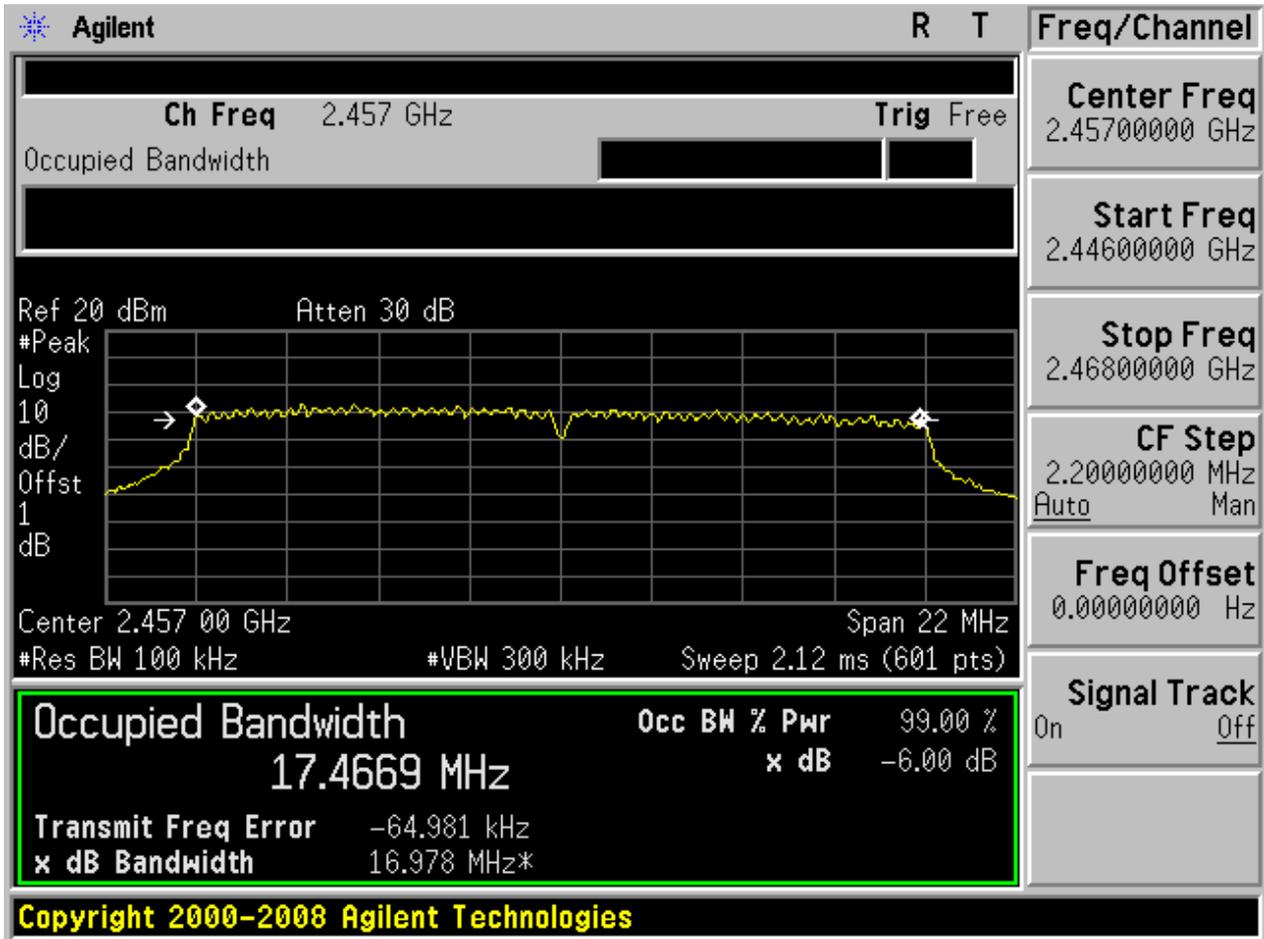


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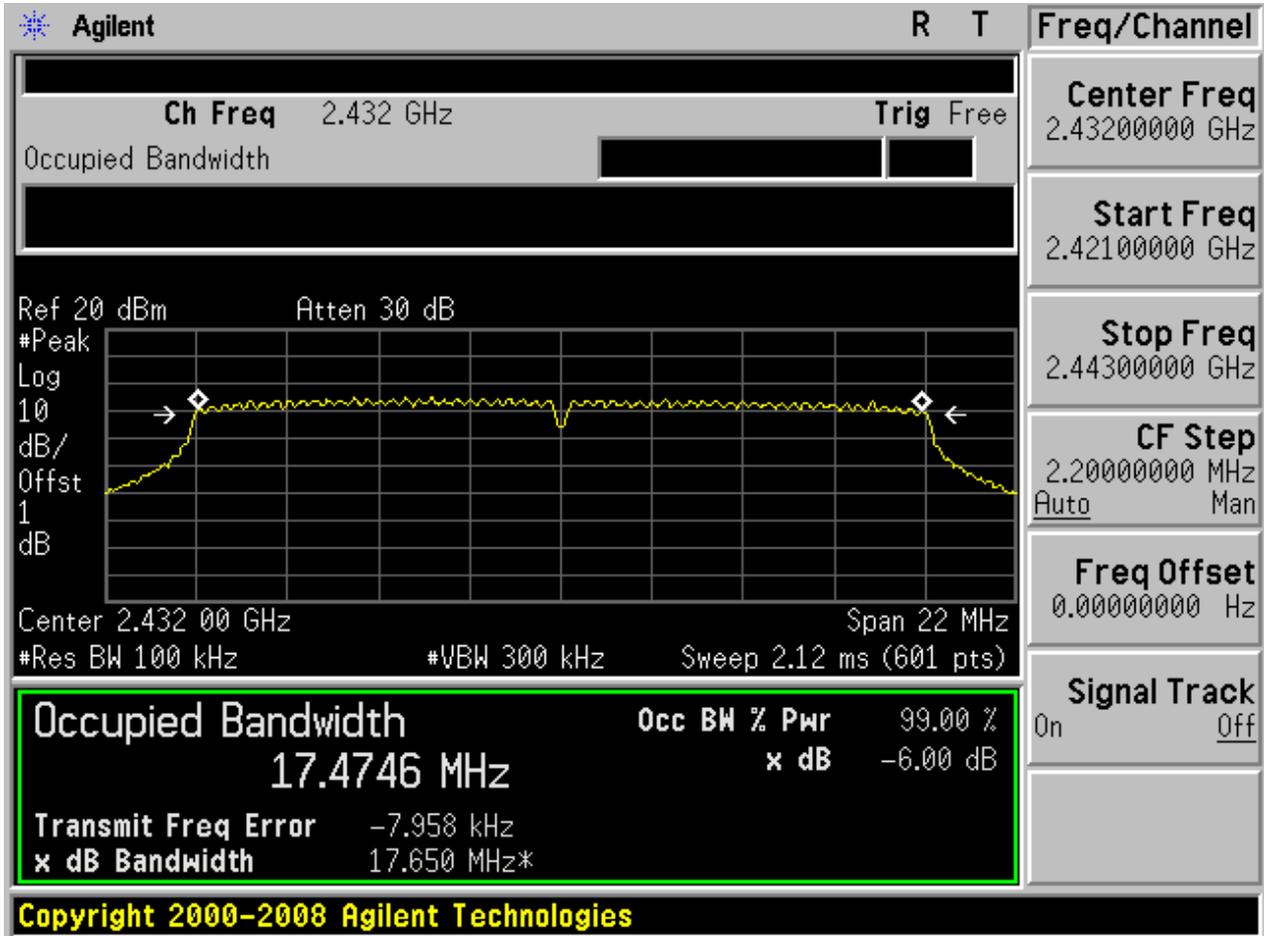




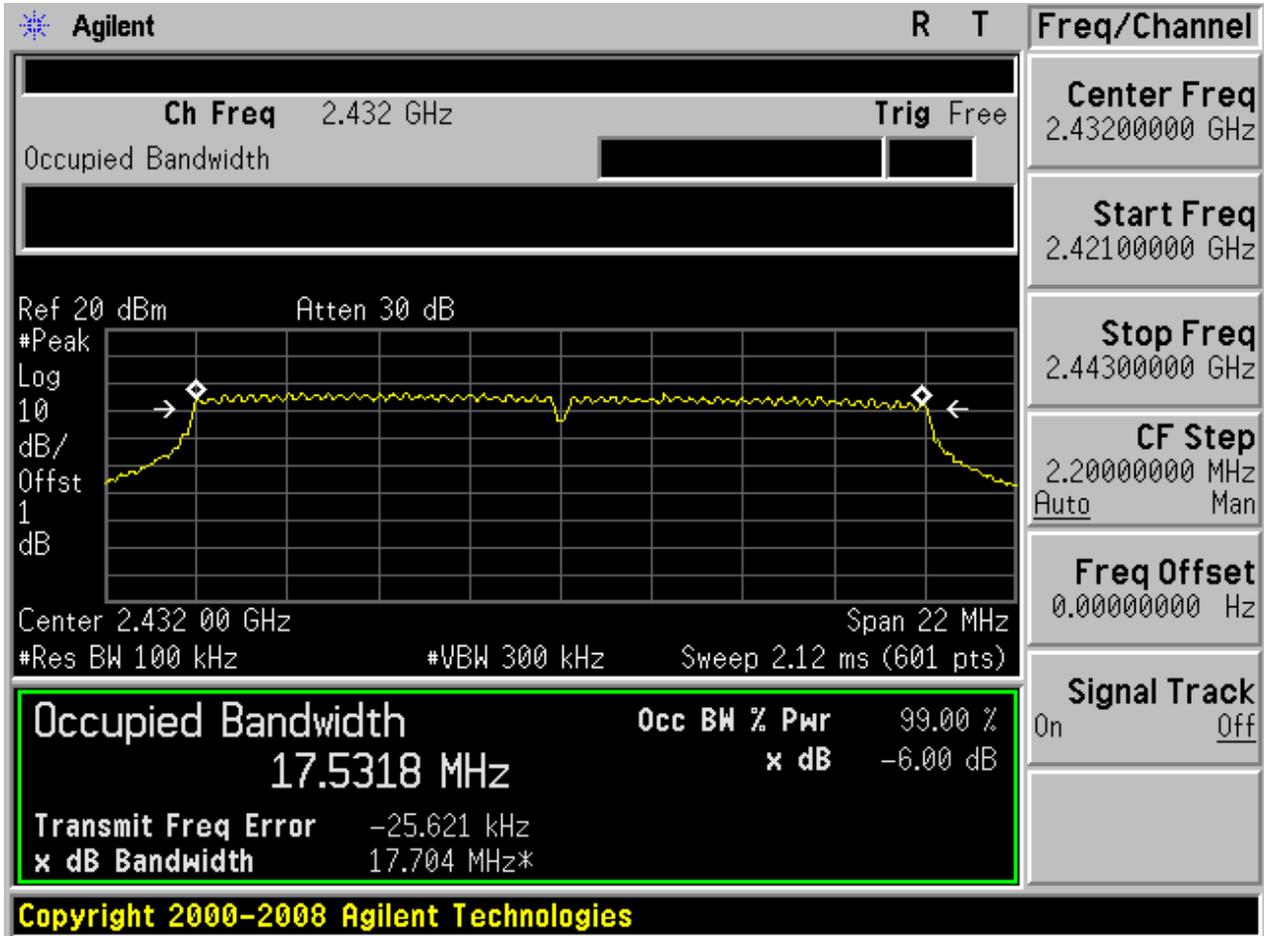
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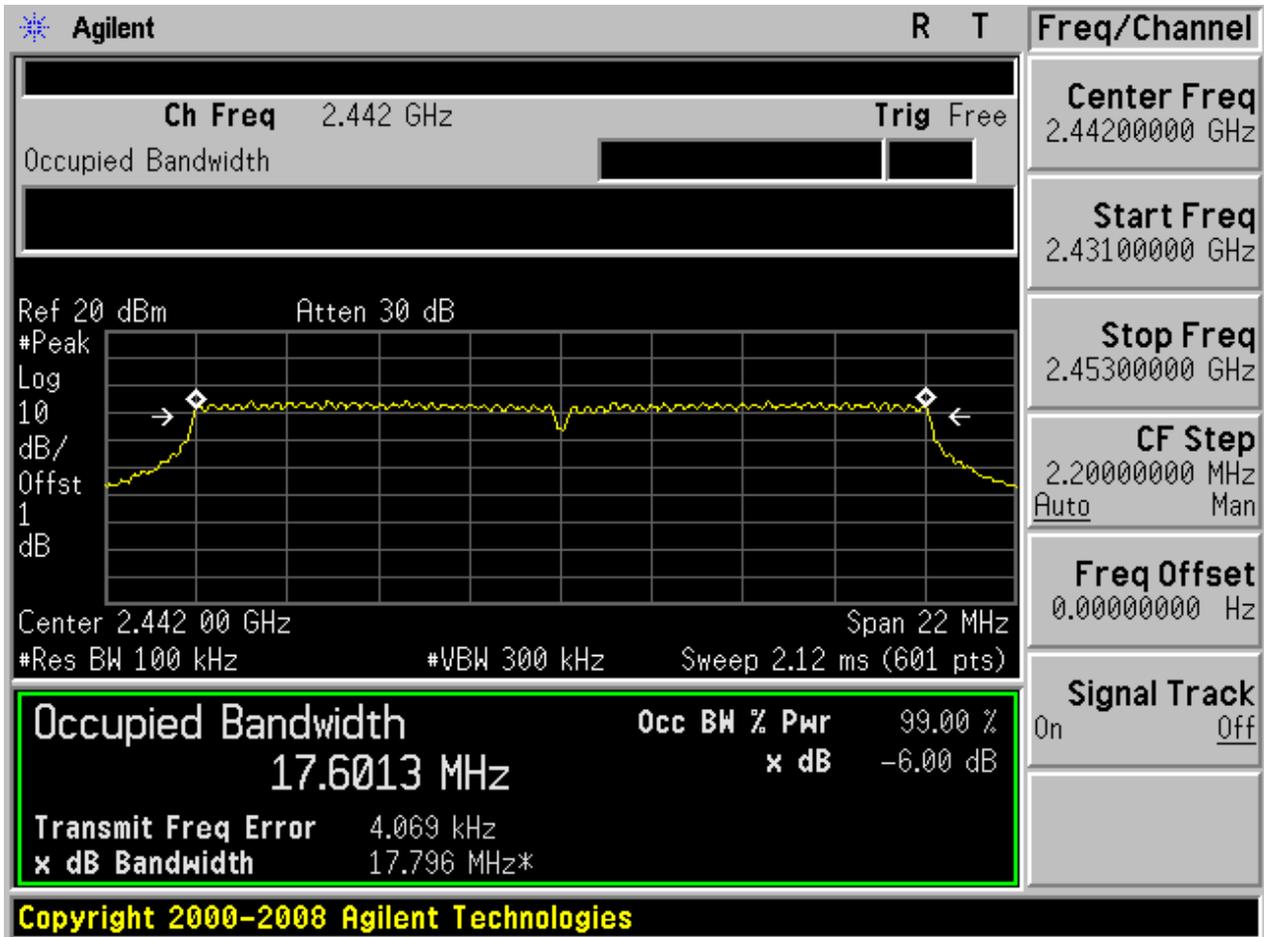
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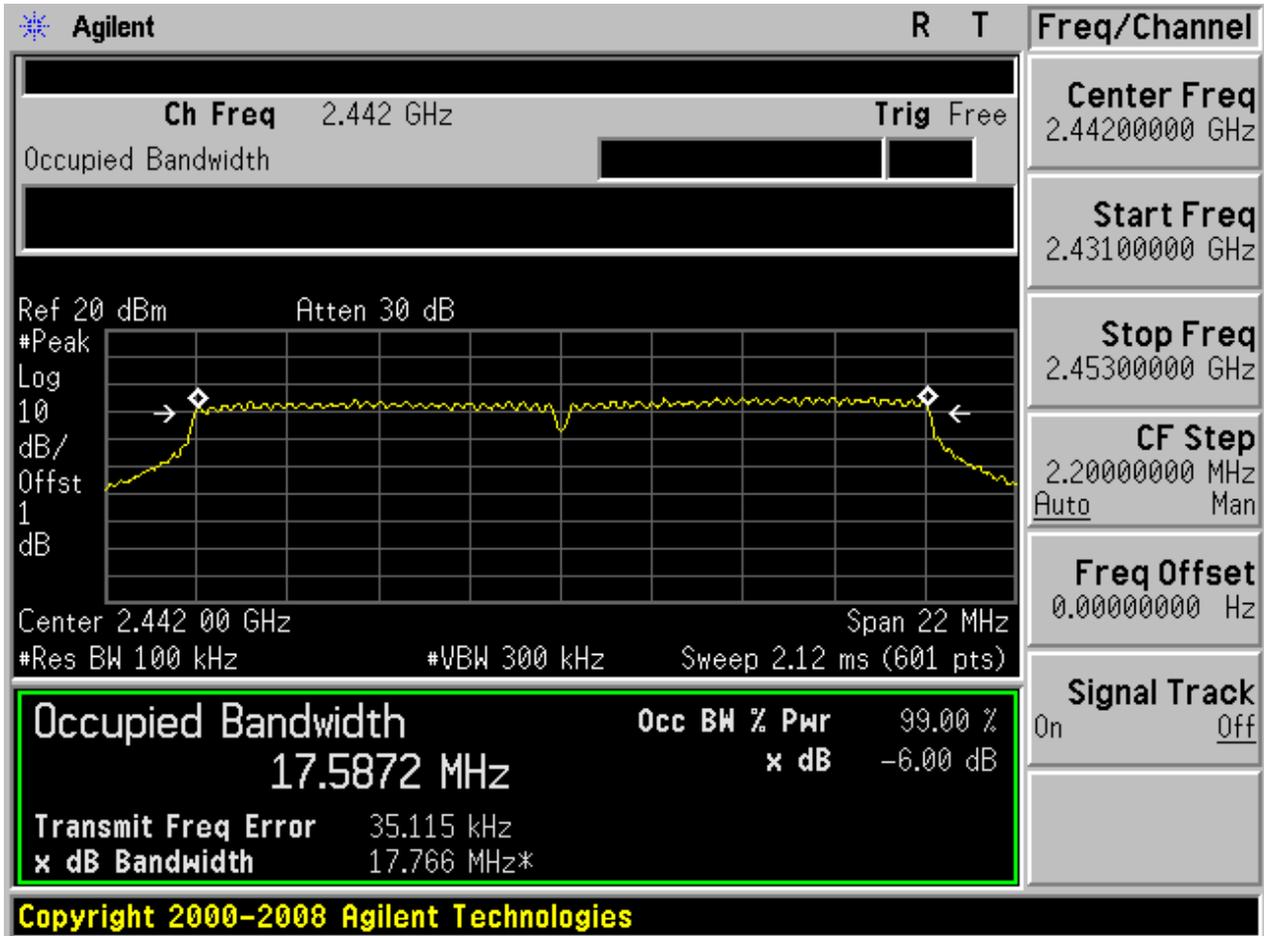
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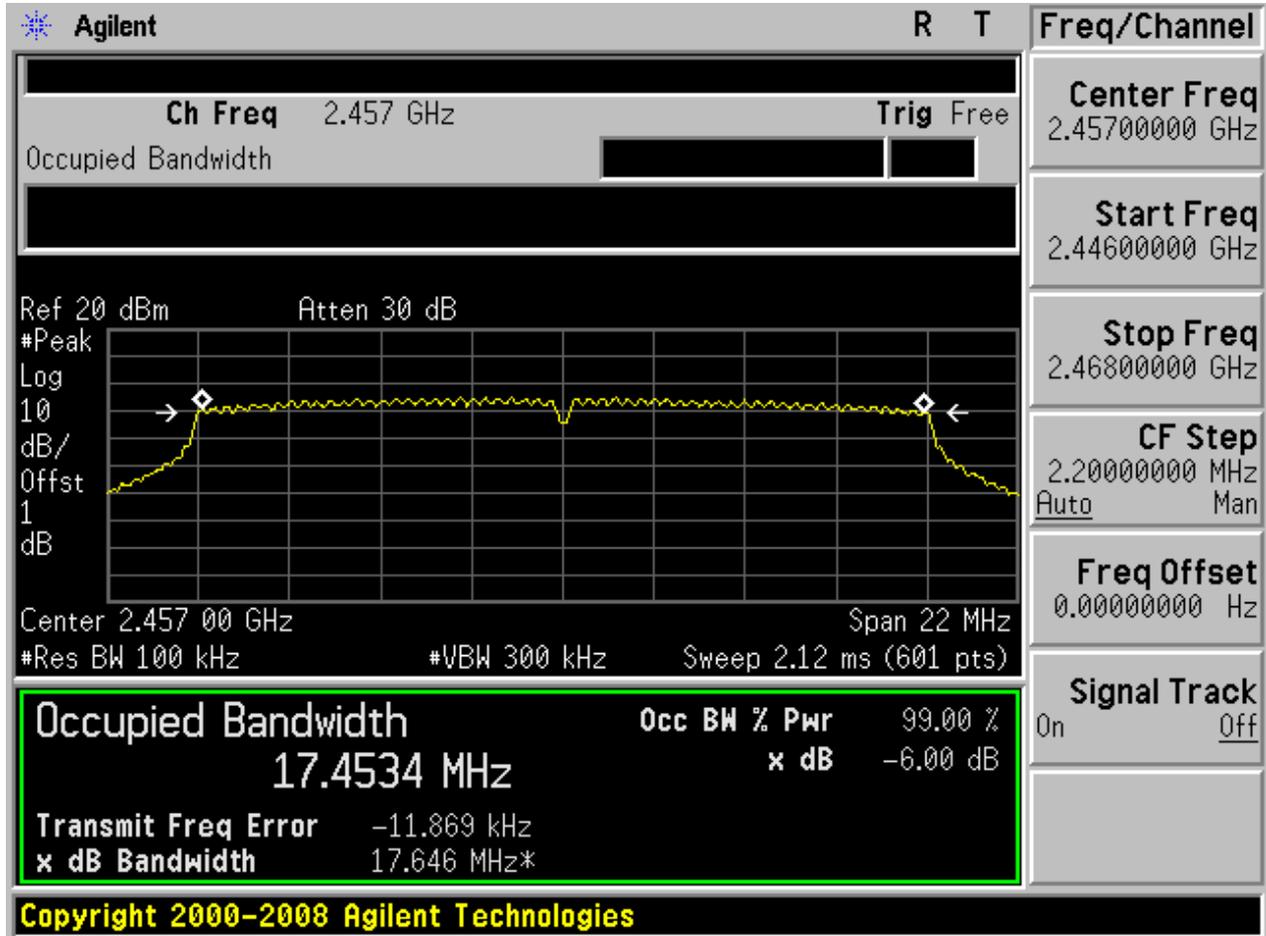
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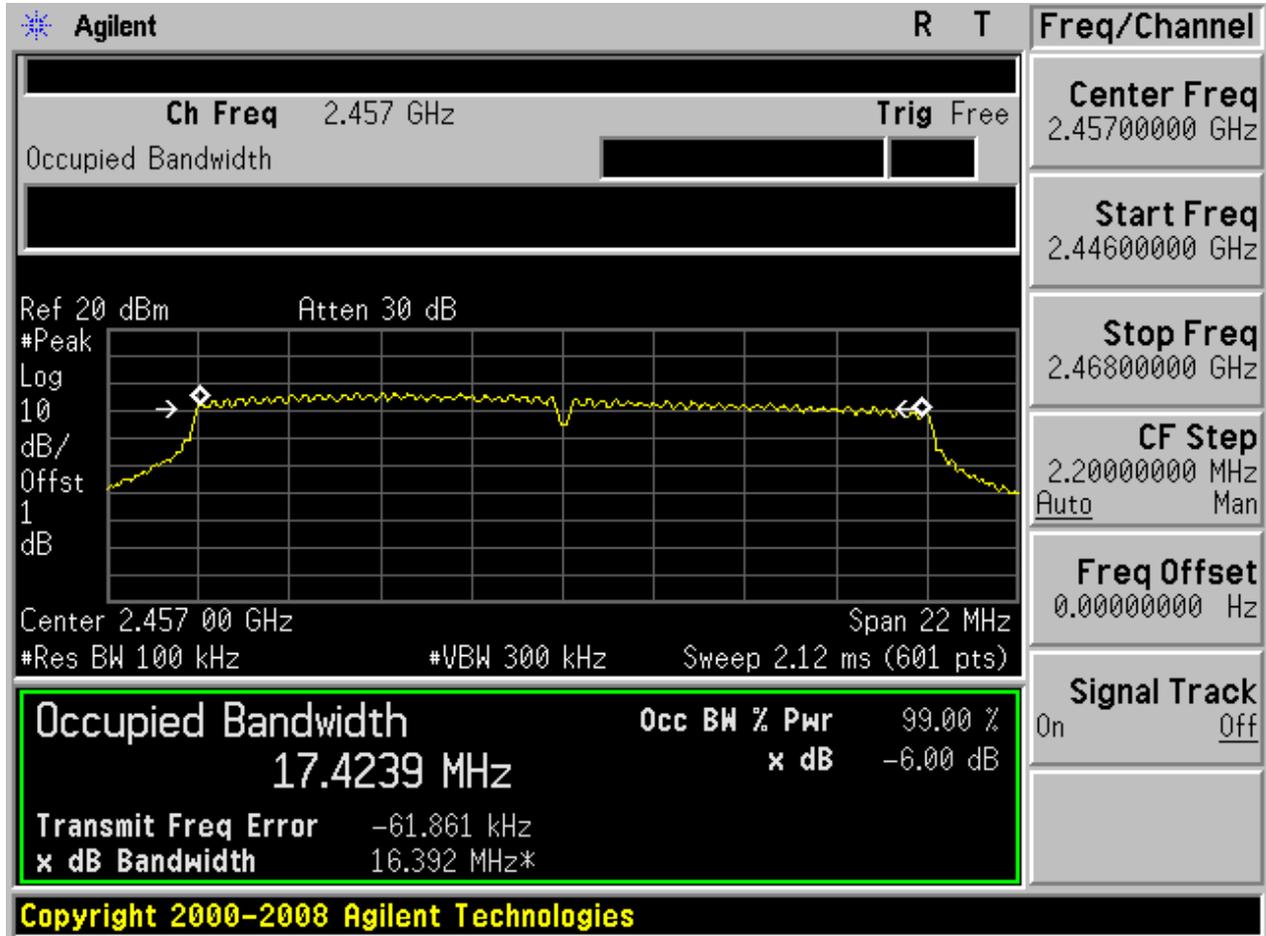
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## 2.23 11N20m\_H@Ant 1

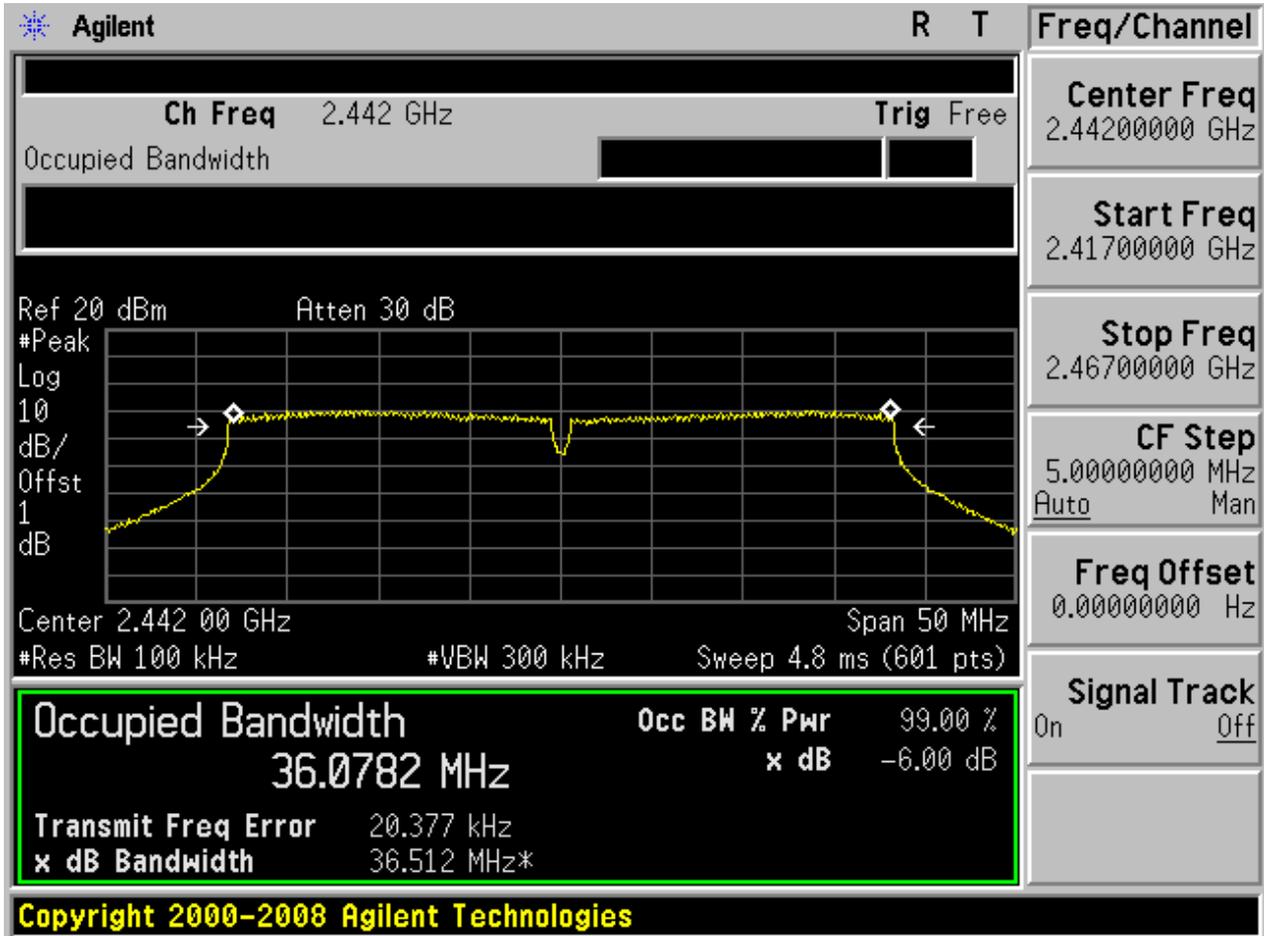


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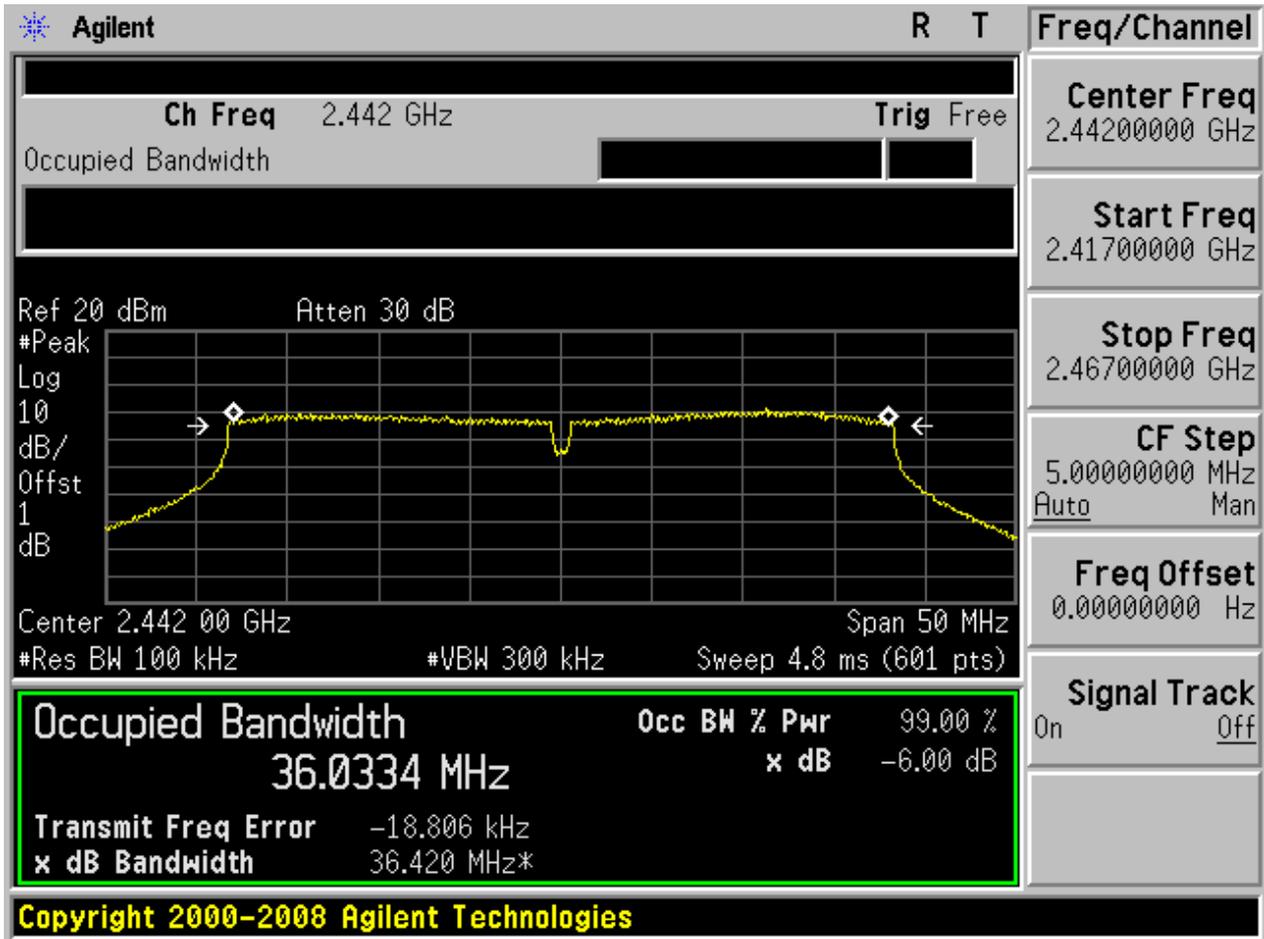


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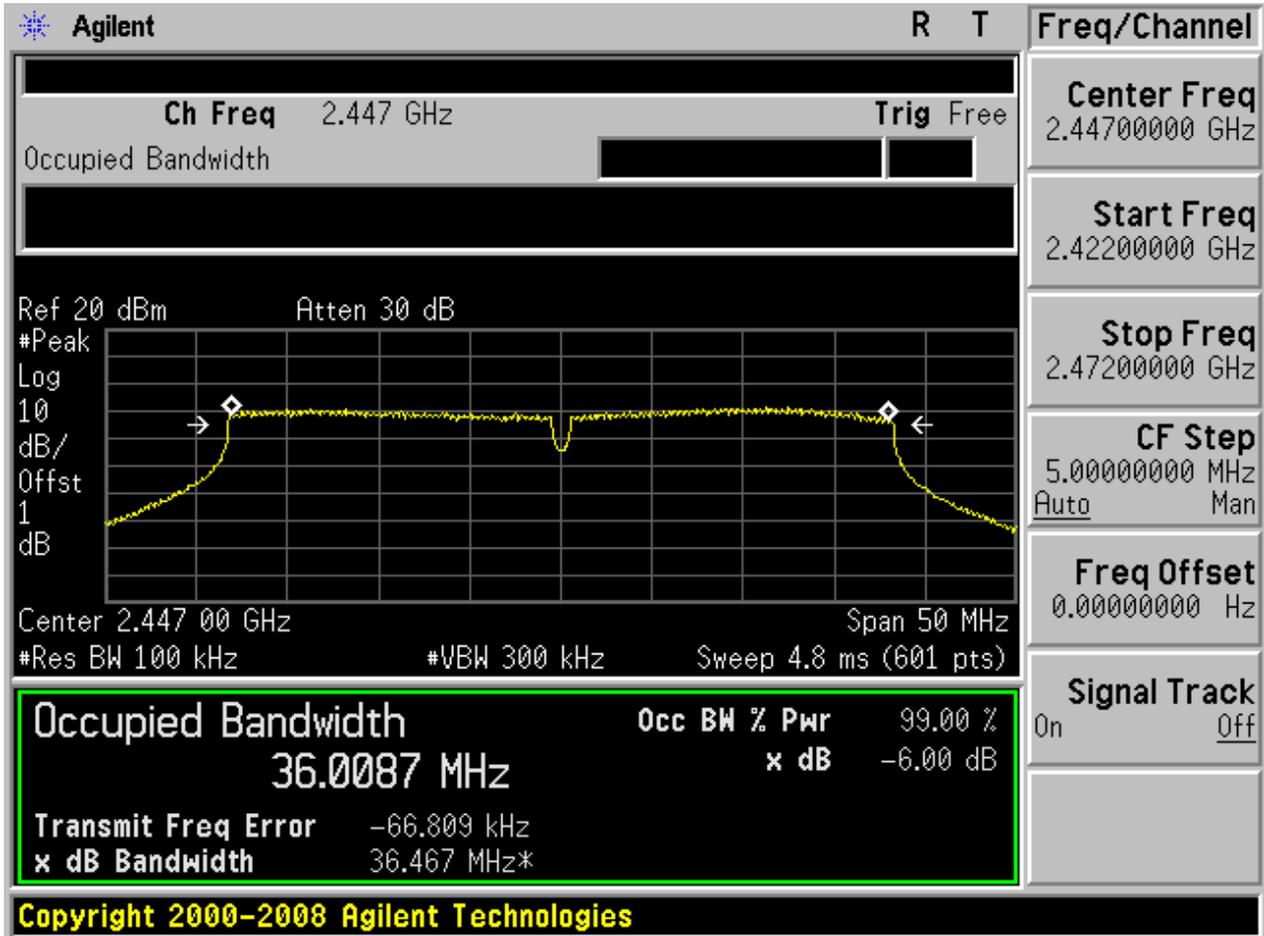




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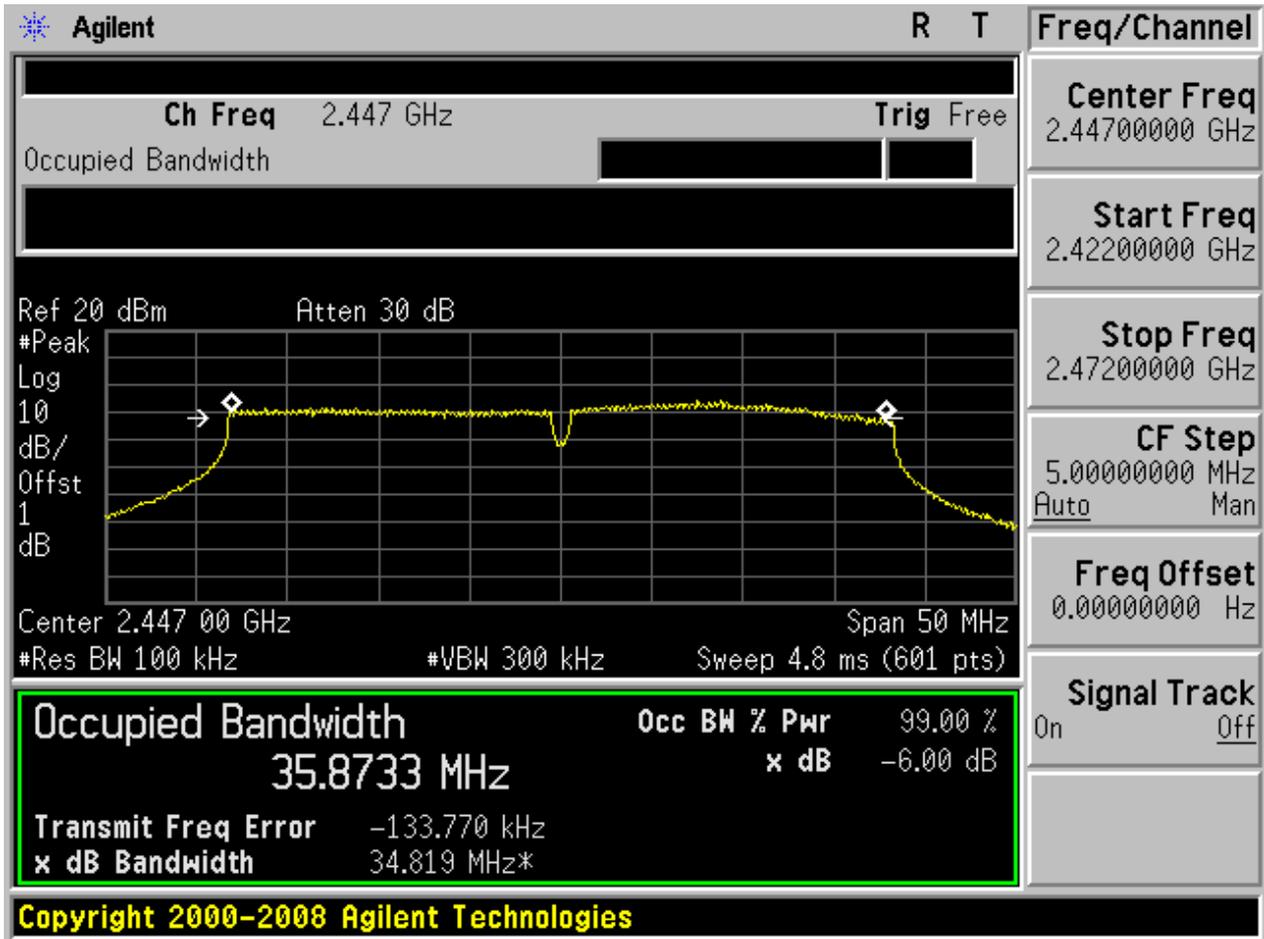


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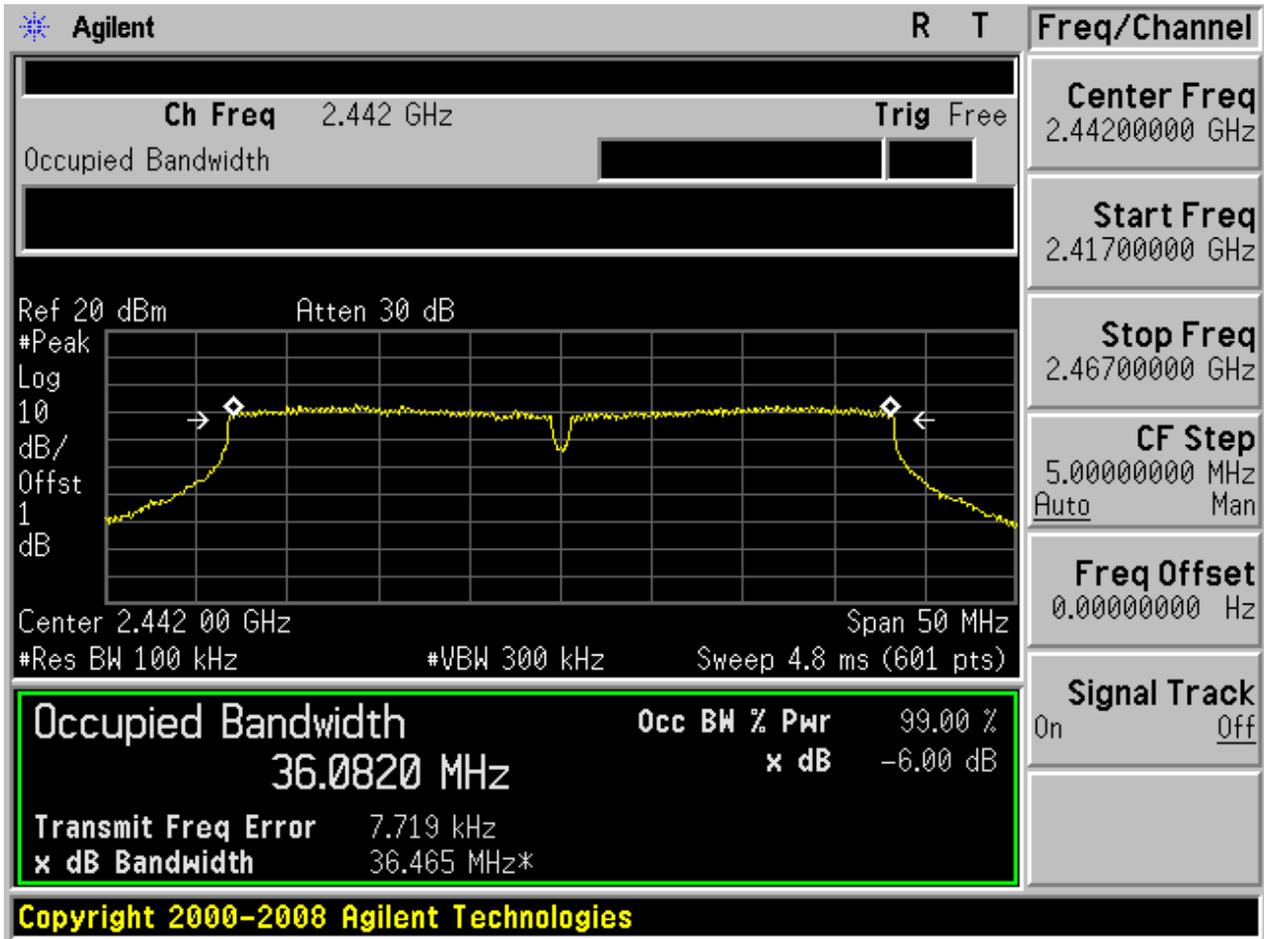


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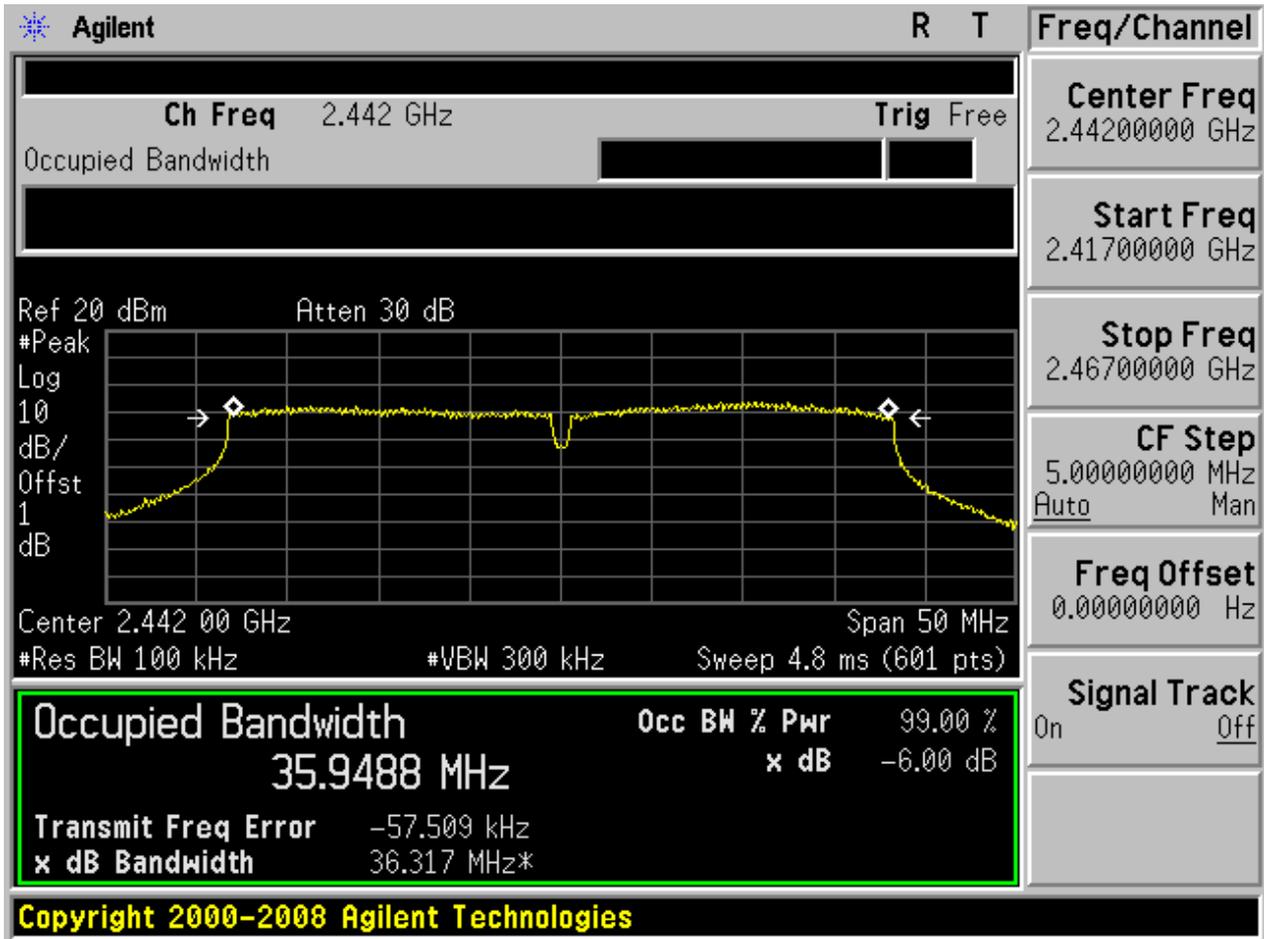


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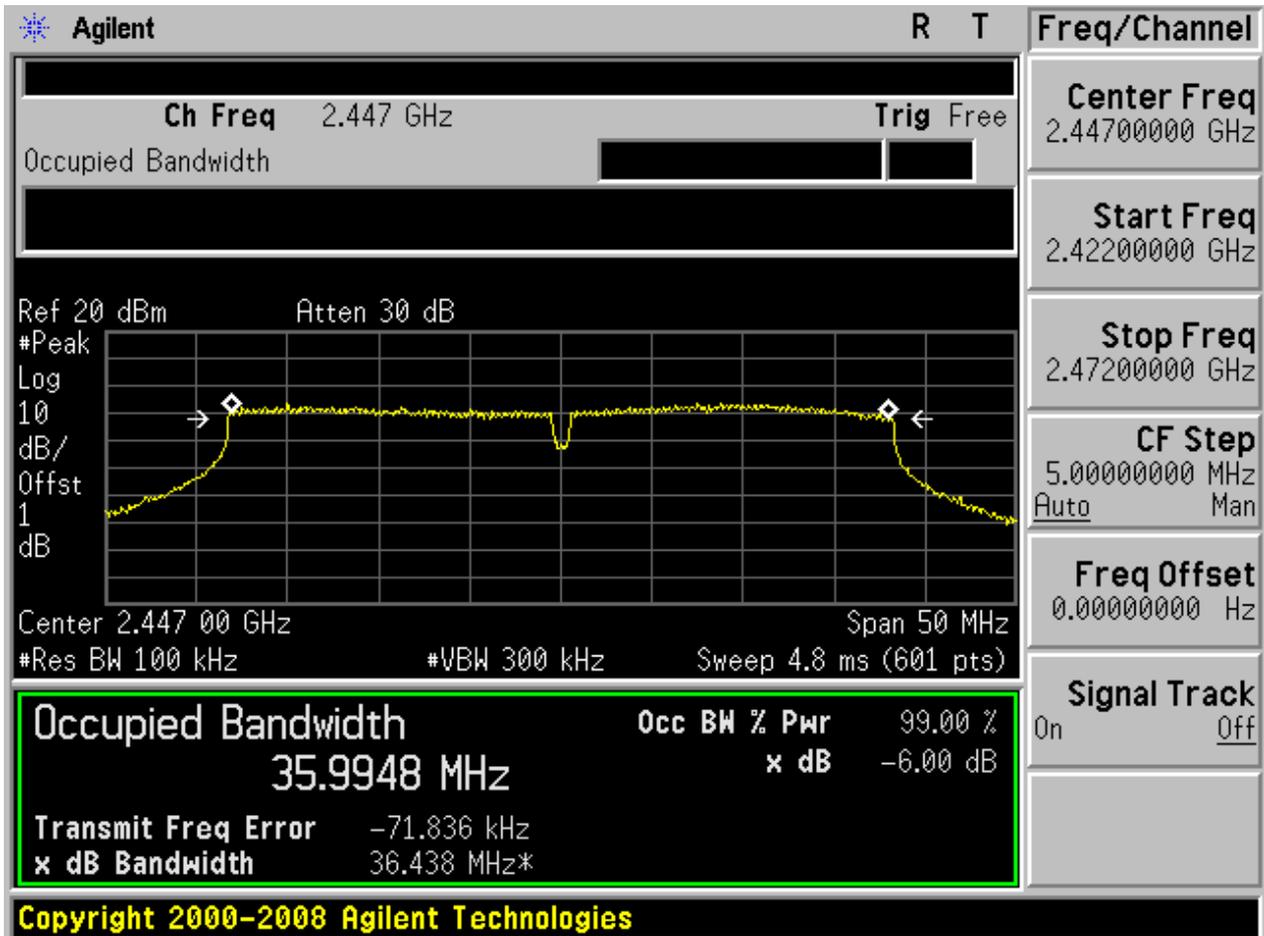




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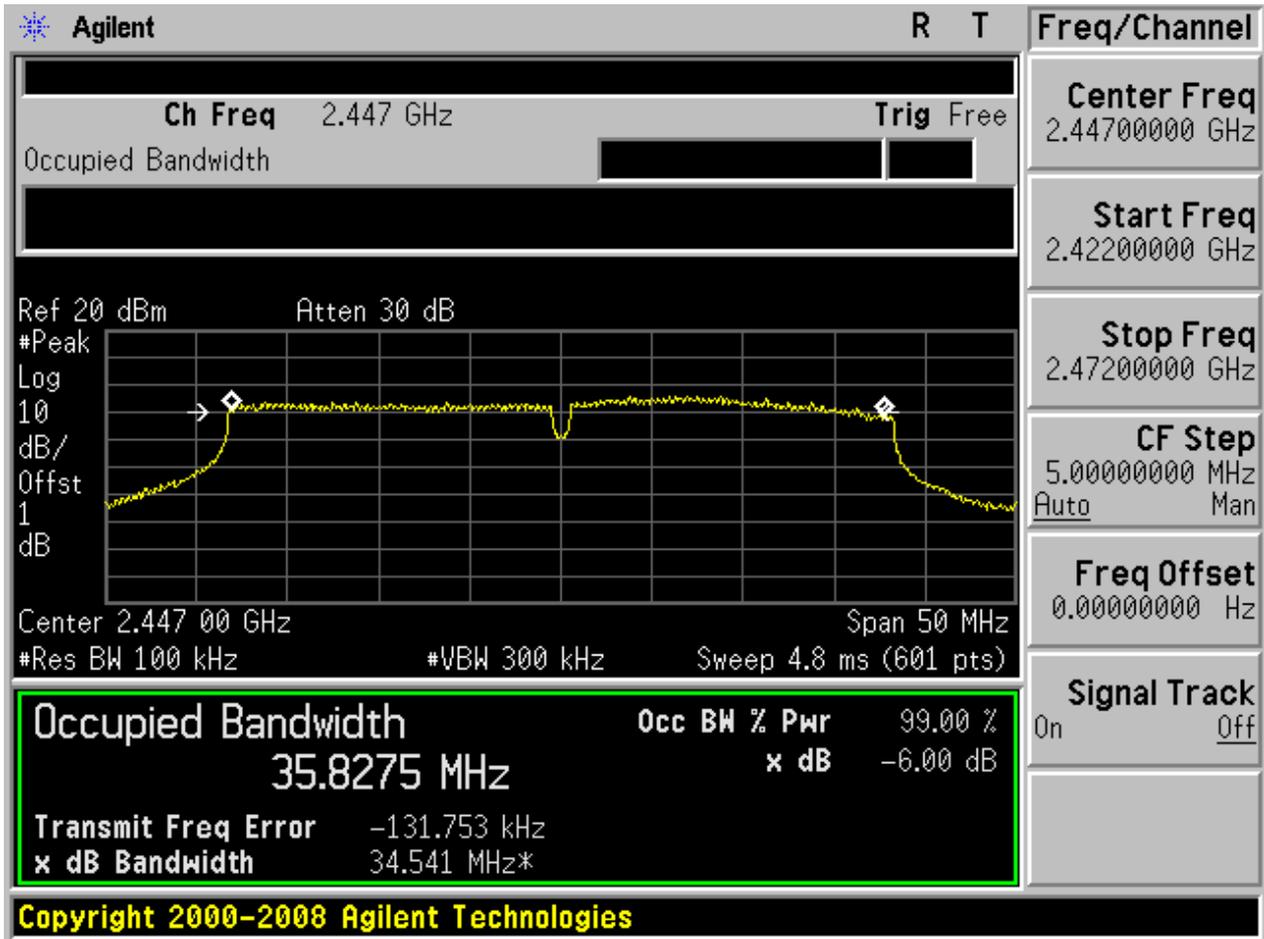


2.31 11N40m\_H@Ant 1





2.32 11N40m\_H@Ant 2



## Appendix B: Occupied Bandwidth

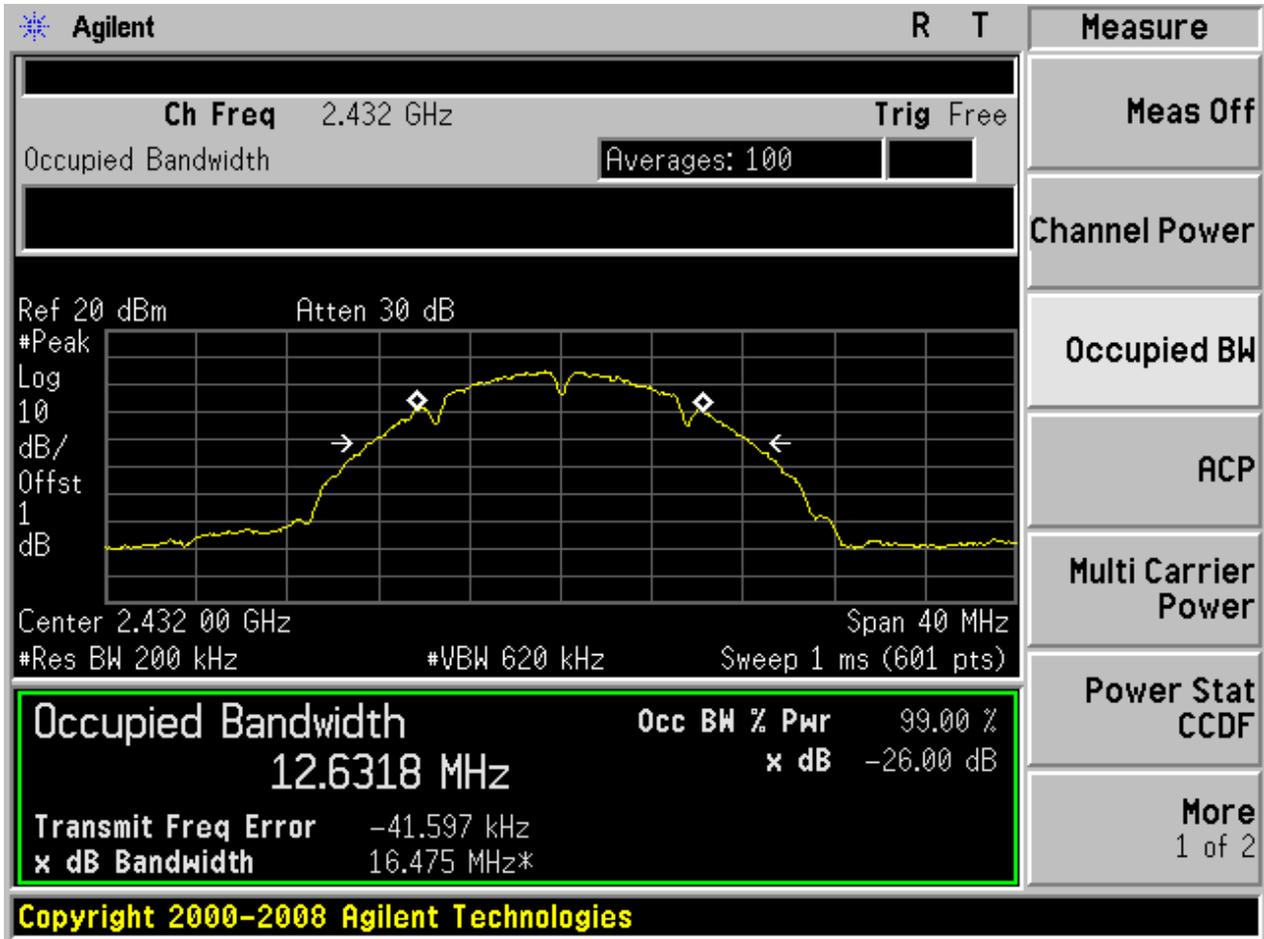
For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain, and used as respective results for each chain.

### Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Occupied Bandwidth [MHz]	Verdict
11B	L	2432	Ant 1	12.63	pass
11B	L	2432	Ant 2	12.80	pass
11B	M	2442	Ant 1	13.31	pass
11B	M	2442	Ant 2	13.14	pass
11B	H	2457	Ant 1	12.54	pass
11B	H	2457	Ant 2	12.41	pass
11G	L	2432	Ant 2	16.39	pass
11G	L	2432	Ant 1	16.35	pass
11G	M	2442	Ant 2	16.46	pass
11G	M	2442	Ant 1	16.43	pass
11G	H	2457	Ant 2	16.27	pass
11G	H	2457	Ant 1	16.31	pass
11N20	L	2432	Ant 1	17.51	pass
11N20	L	2432	Ant 2	17.59	pass
11N20	M	2442	Ant 1	17.65	pass
11N20	M	2442	Ant 2	17.65	pass
11N20	H	2457	Ant 1	17.50	pass
11N20	H	2457	Ant 2	17.48	pass
11N20m	L	2432	Ant 1	17.48	pass
11N20m	L	2432	Ant 2	17.56	pass
11N20m	M	2442	Ant 1	17.65	pass
11N20m	M	2442	Ant 2	17.65	pass
11N20m	H	2457	Ant 1	17.50	pass
11N20m	H	2457	Ant 2	17.48	pass
11N40m	L	2442	Ant 2	36.01	pass
11N40m	H	2447	Ant 1	36.06	pass
11N40m	H	2447	Ant 2	35.75	pass

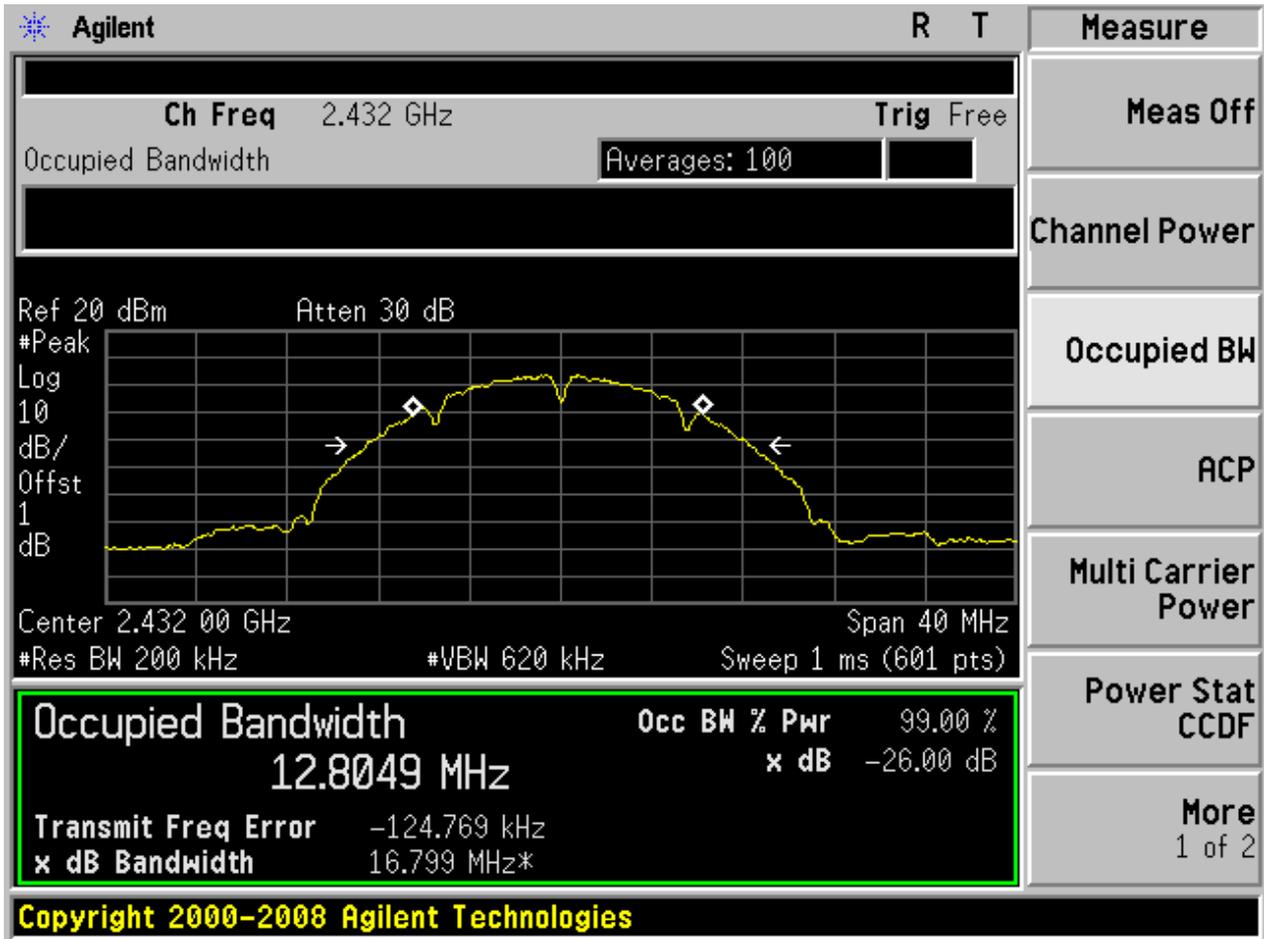
Part II - Test Plots

2.1 11B\_L@Ant 1

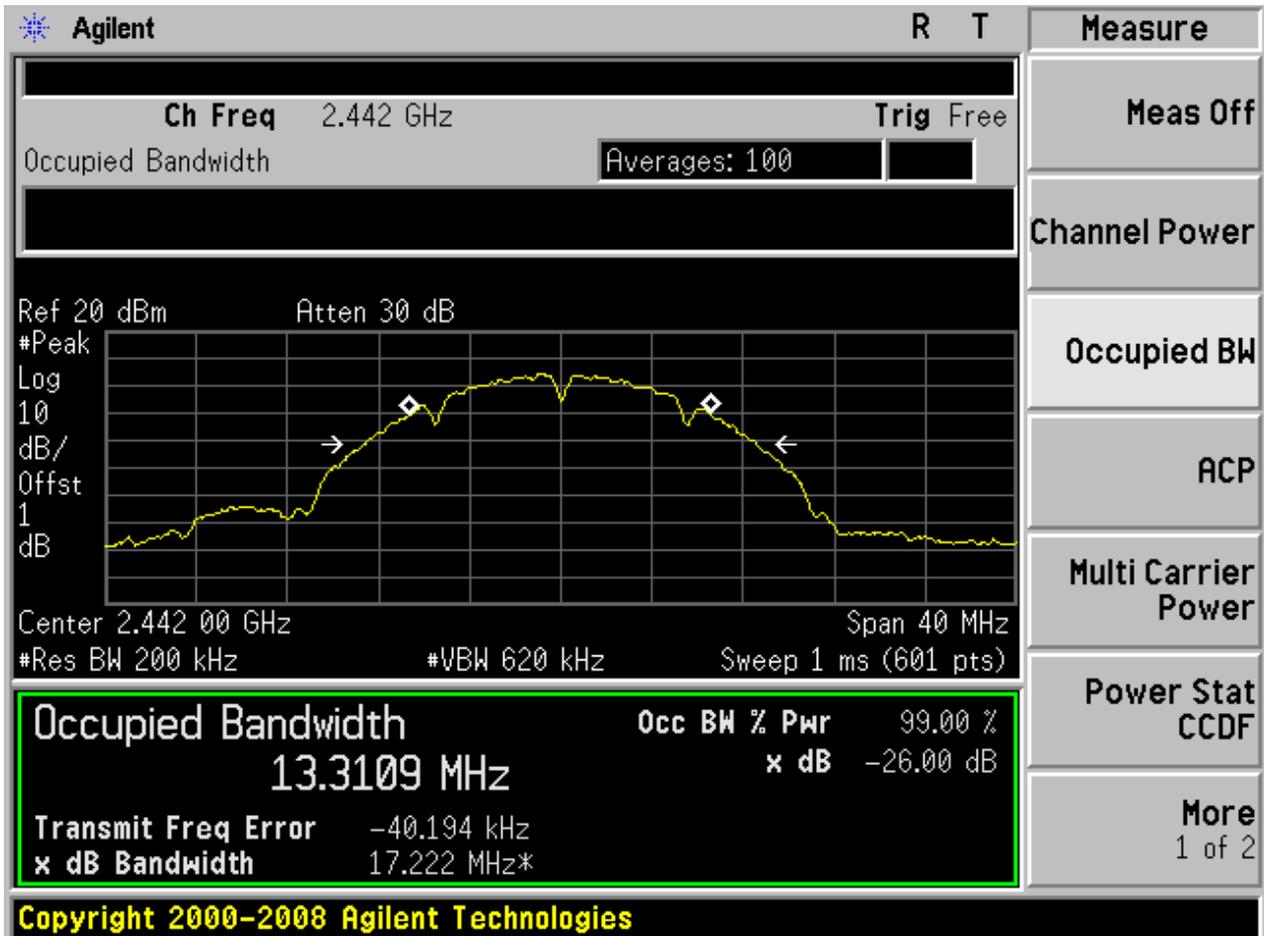




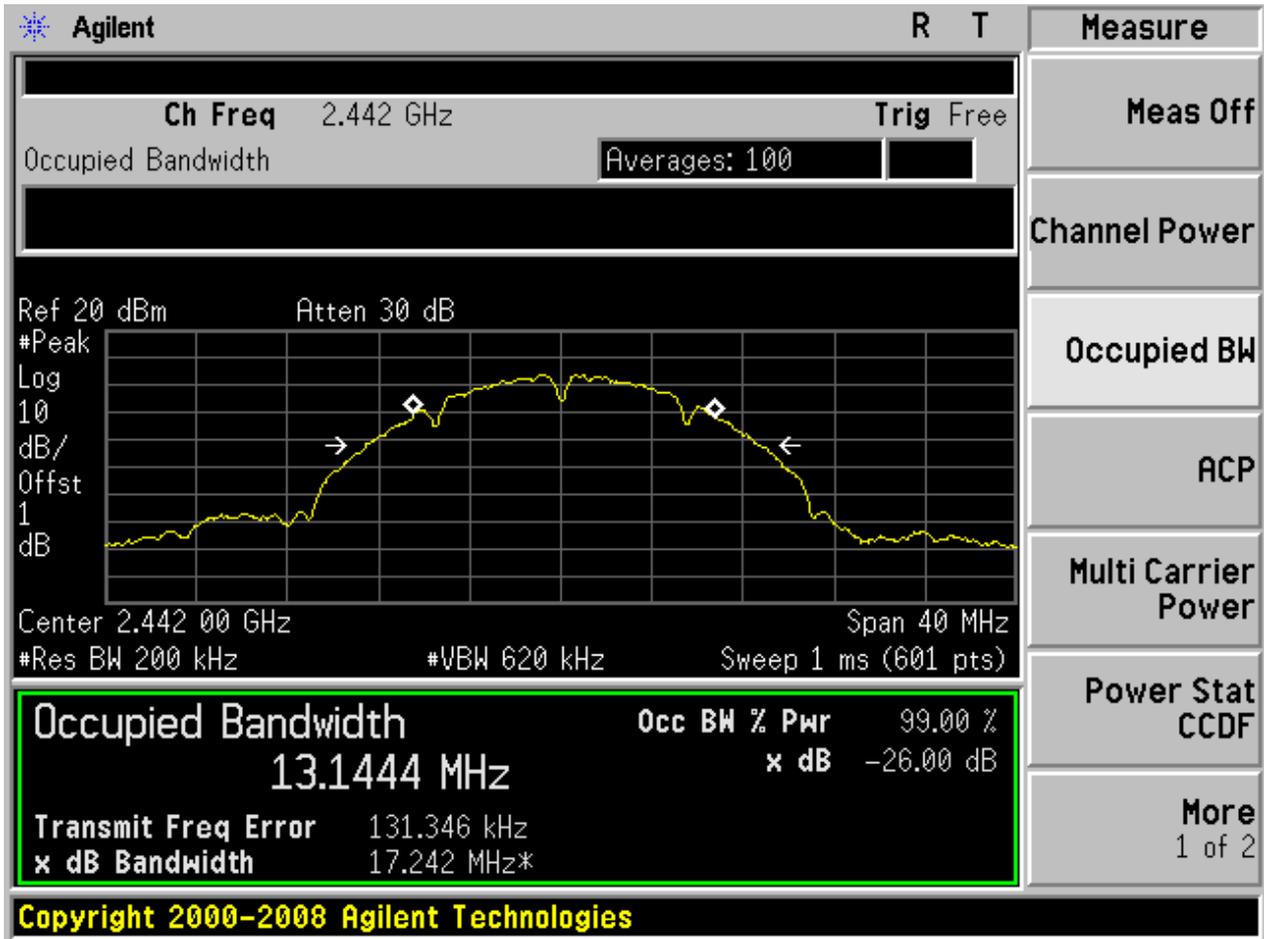
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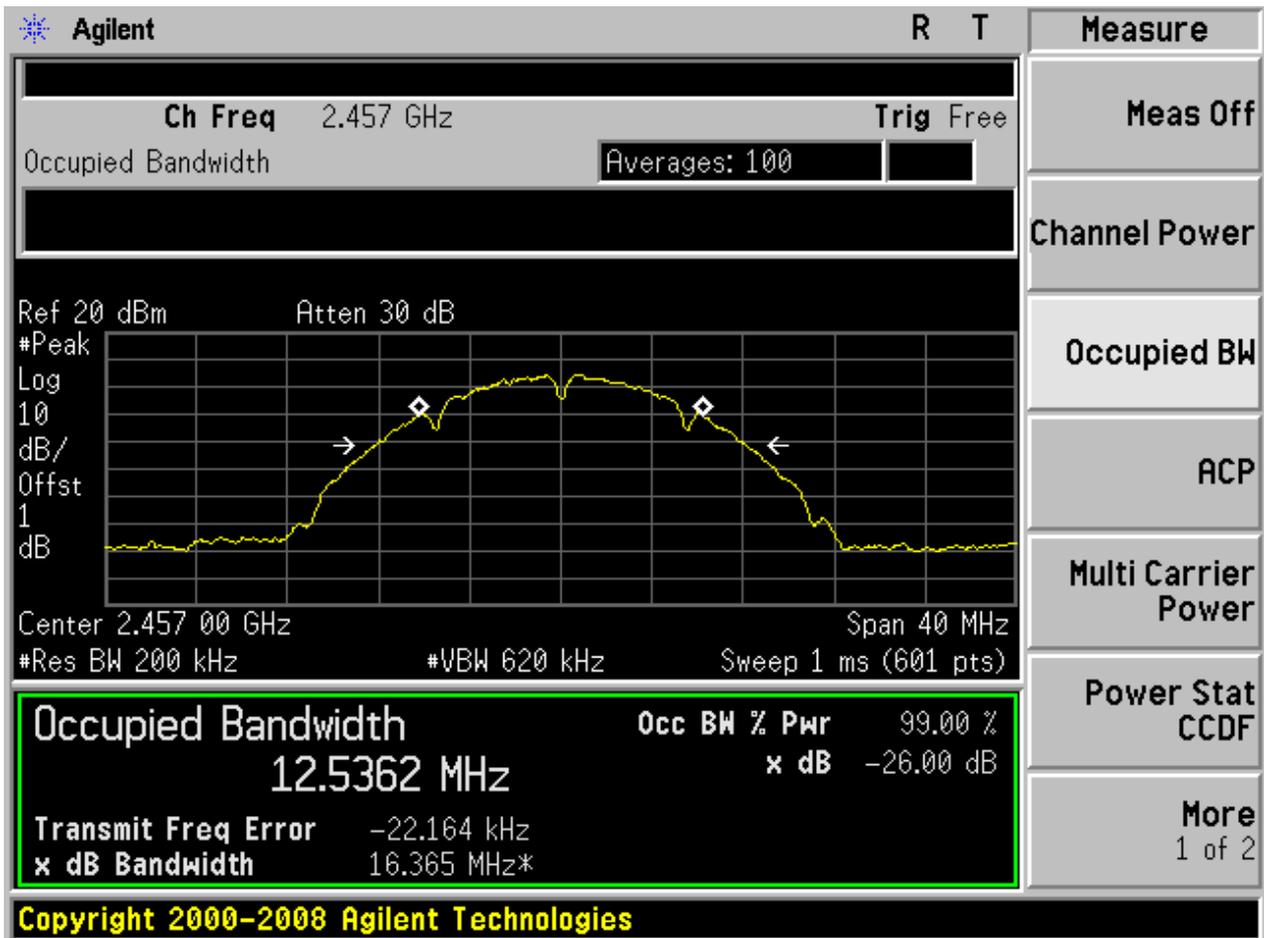
2.3 11B\_M@Ant 1



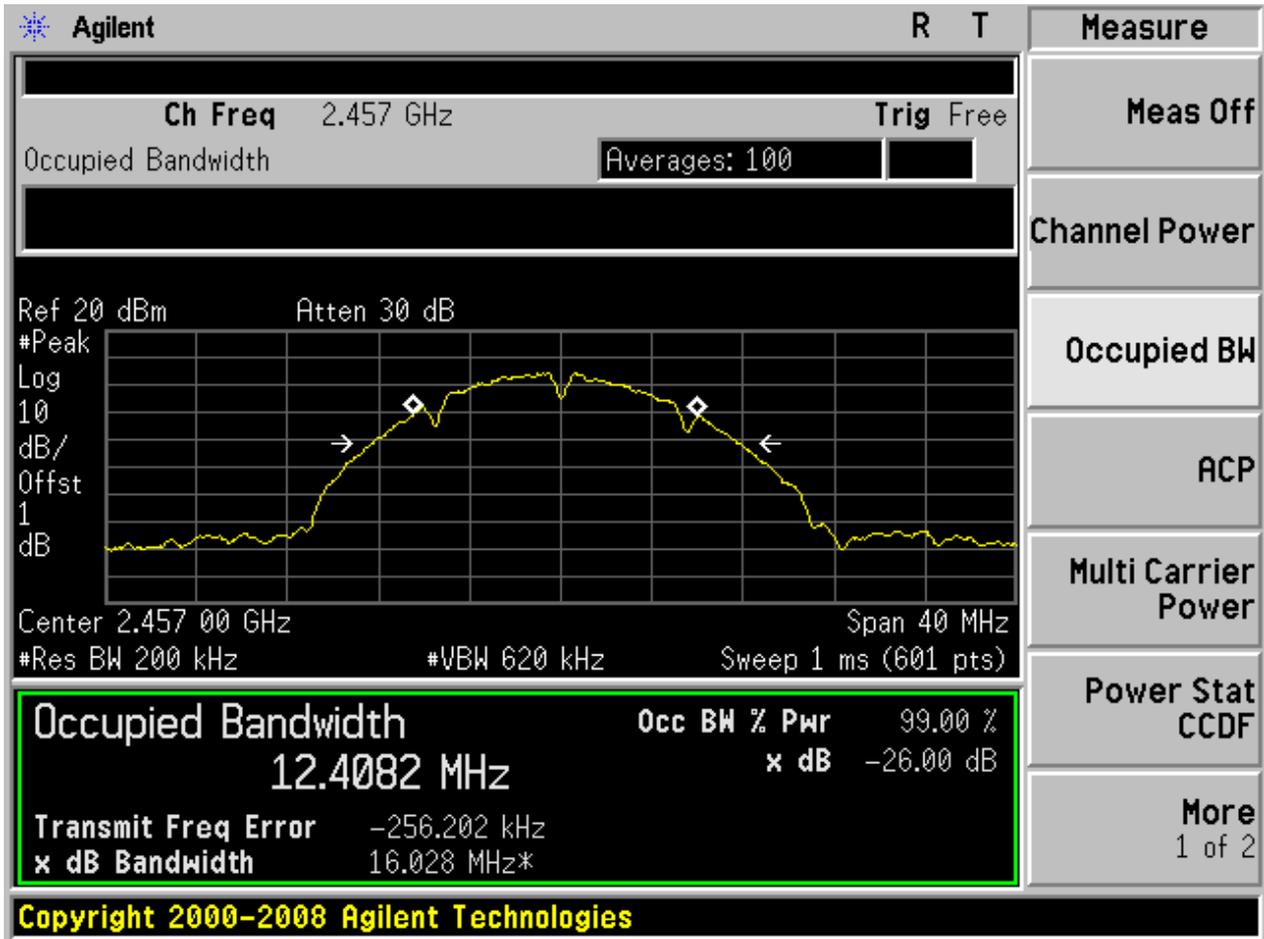
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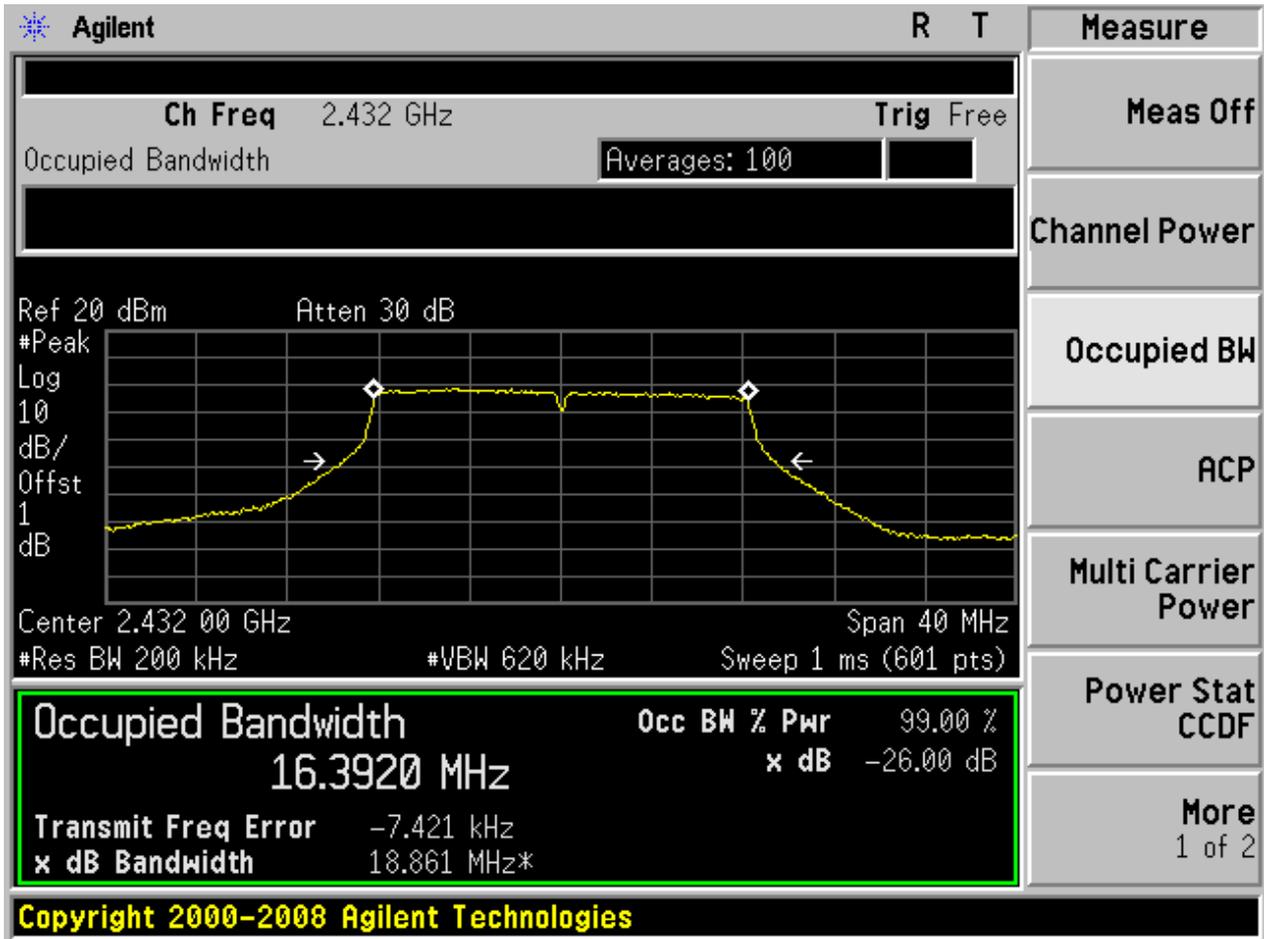
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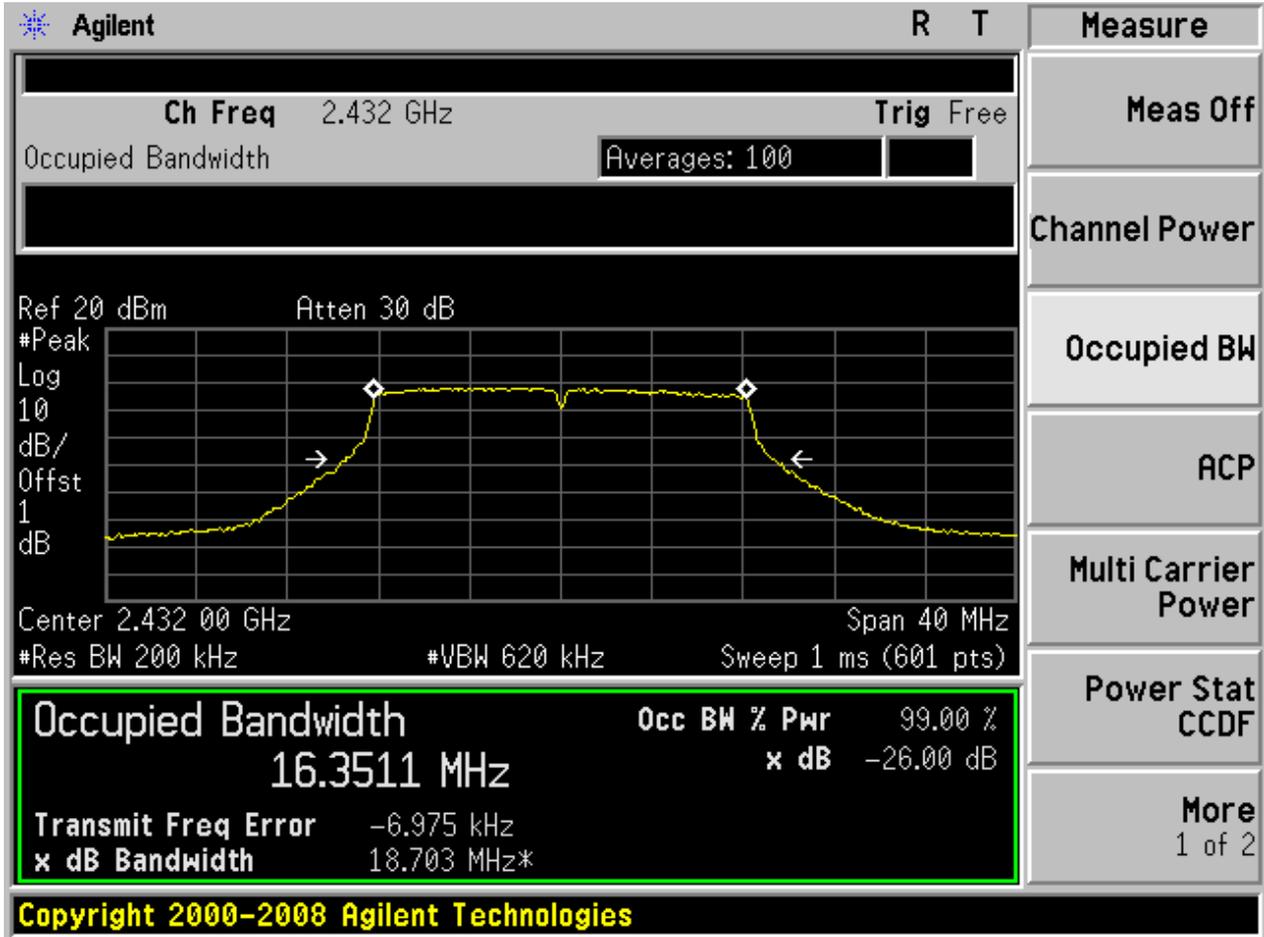
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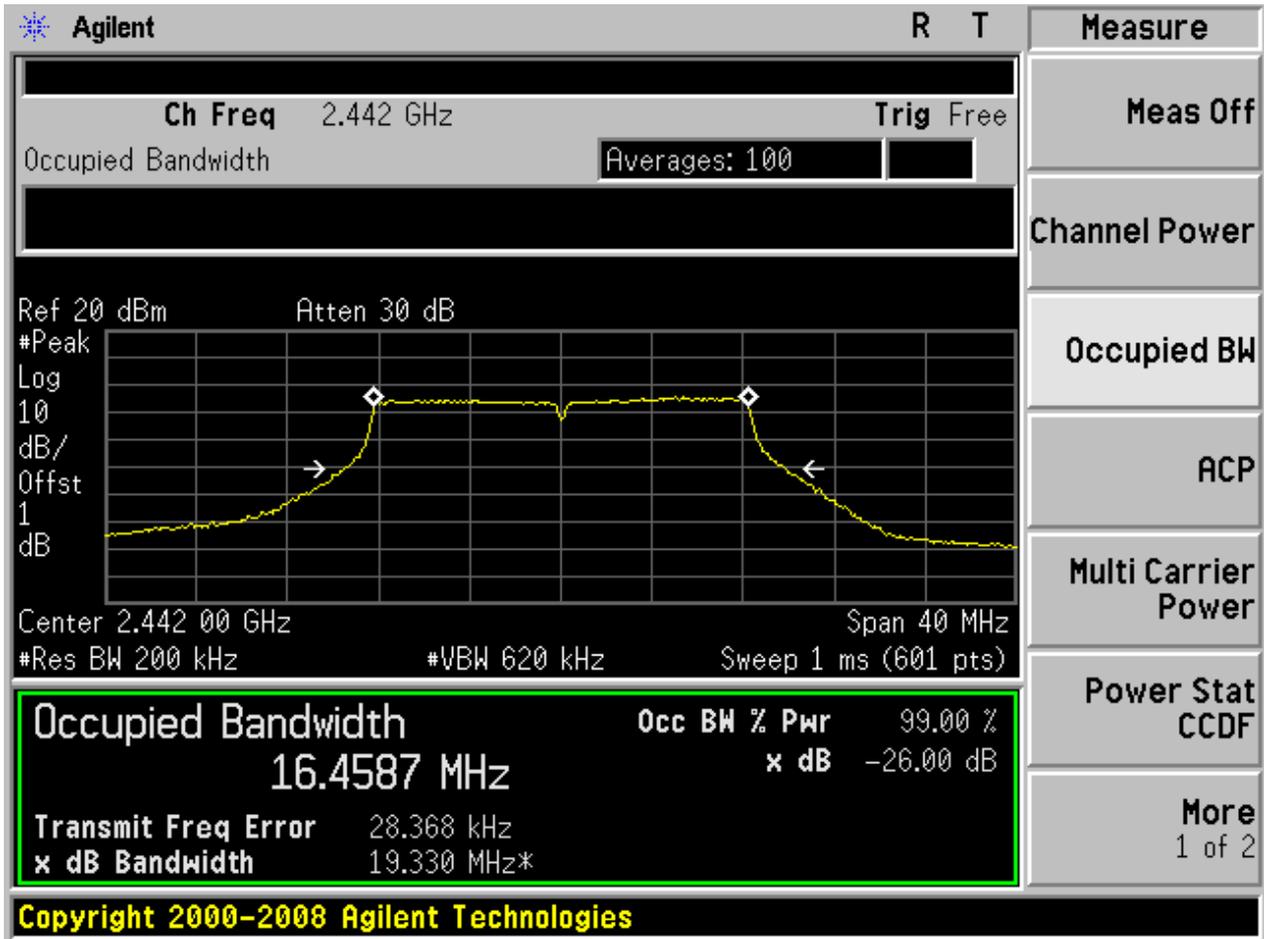
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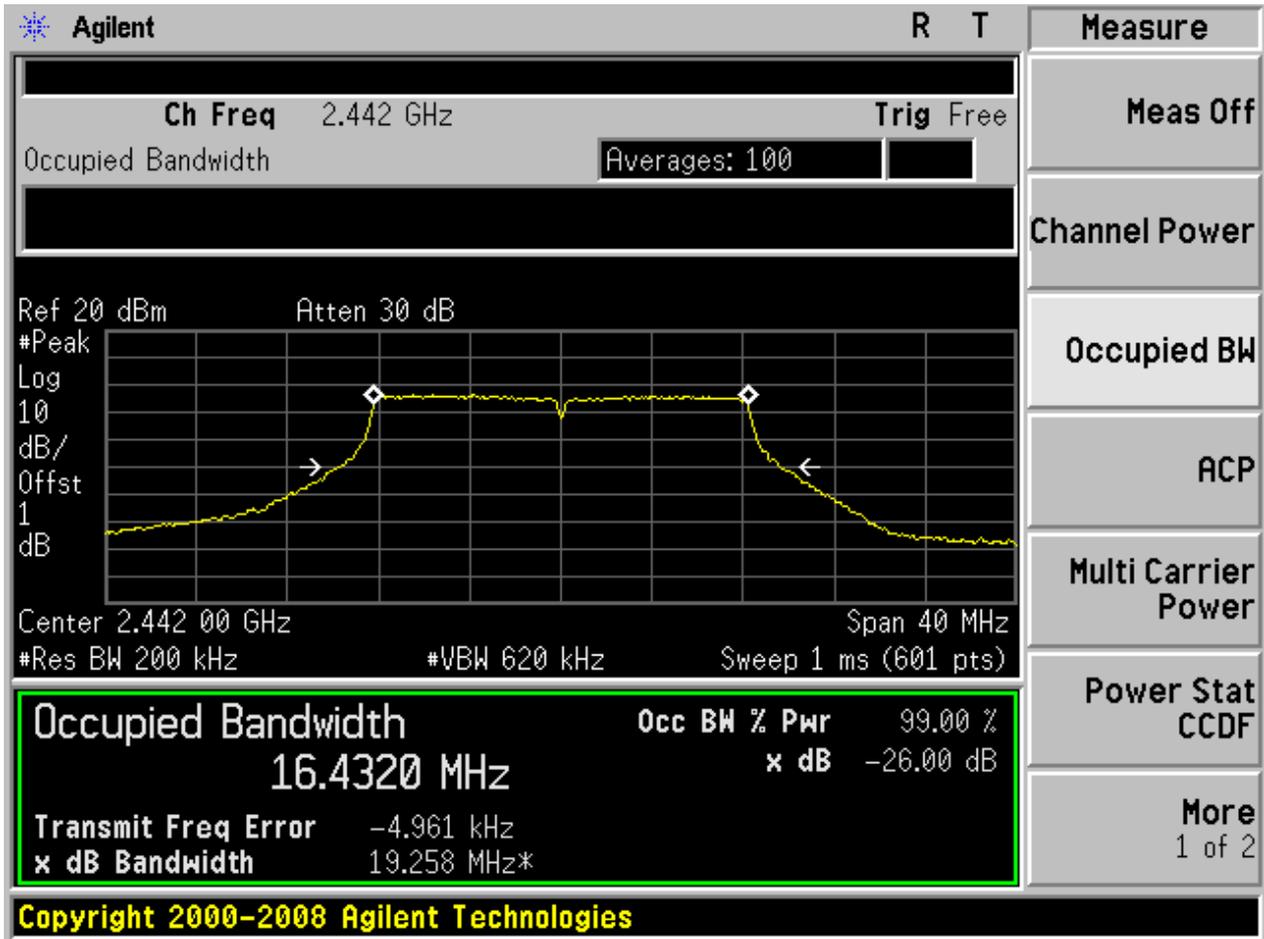
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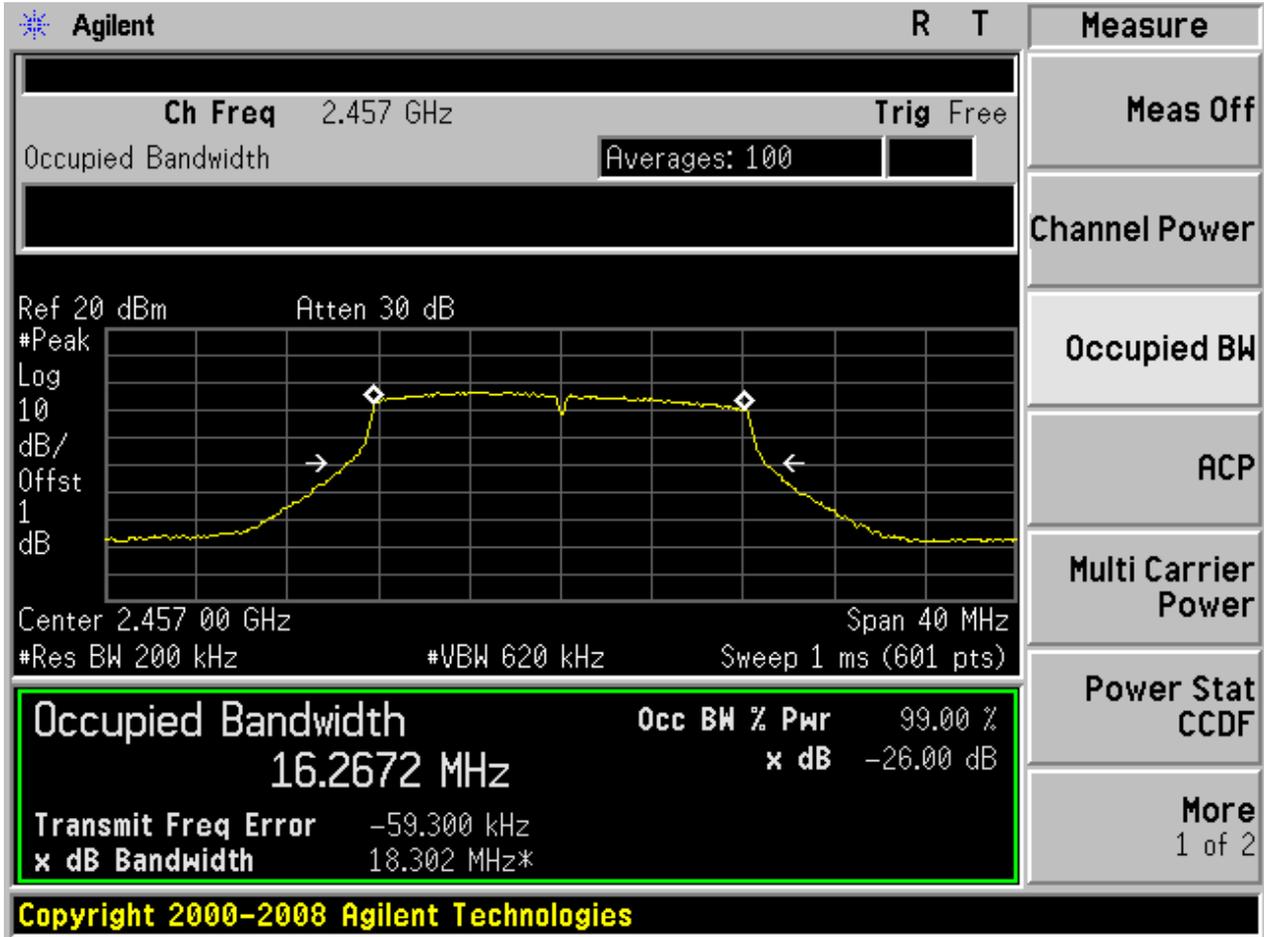
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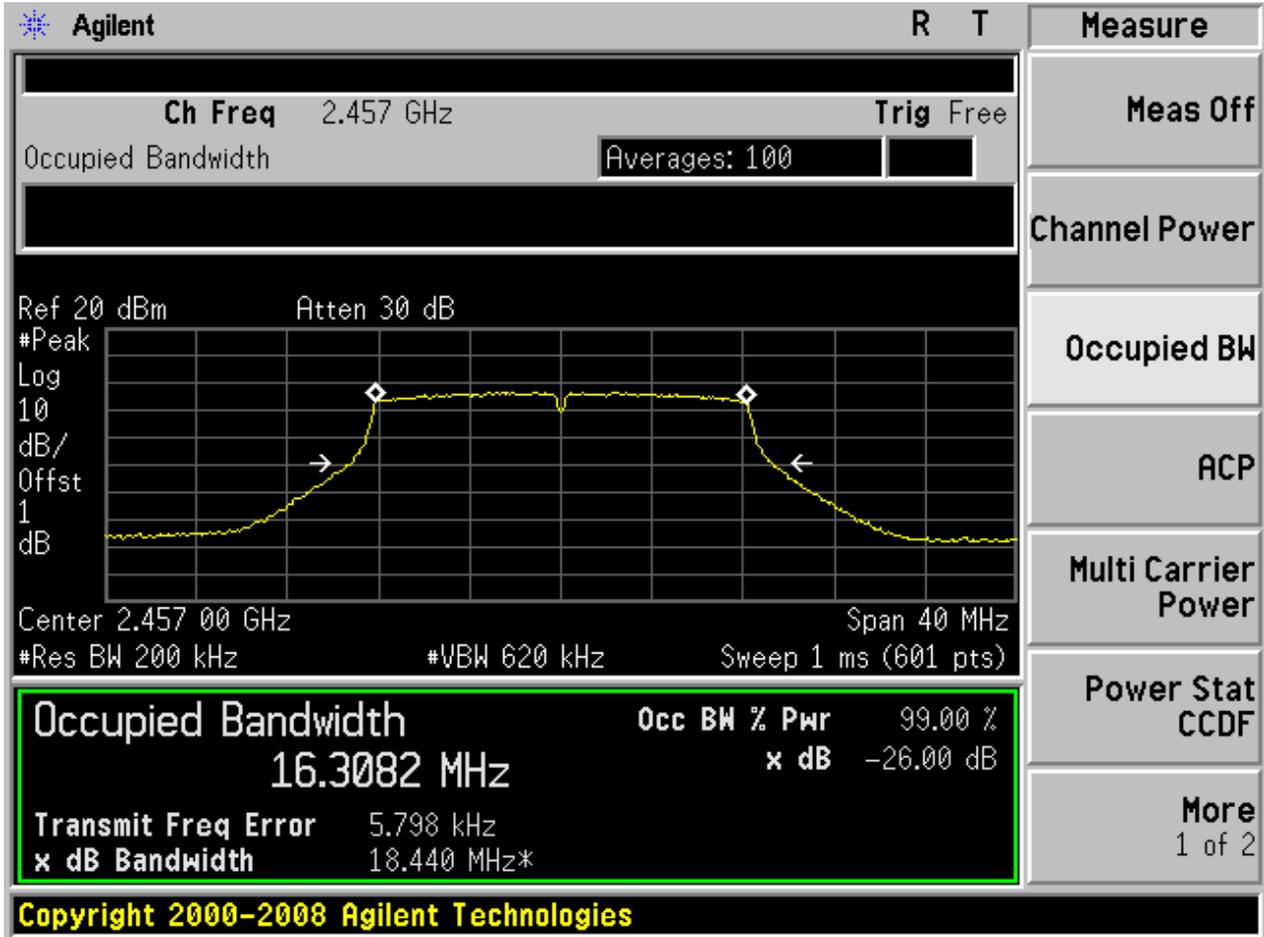
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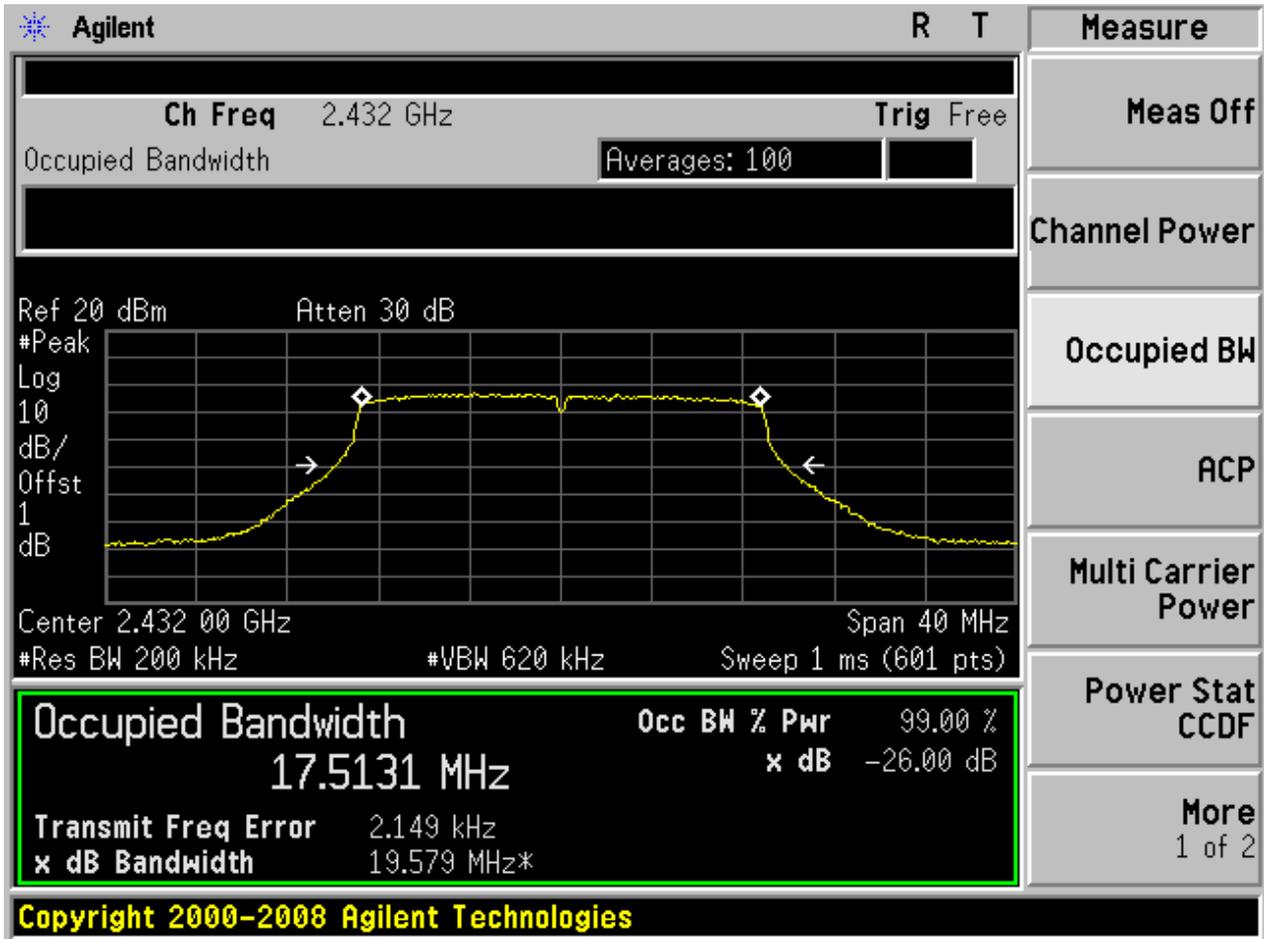
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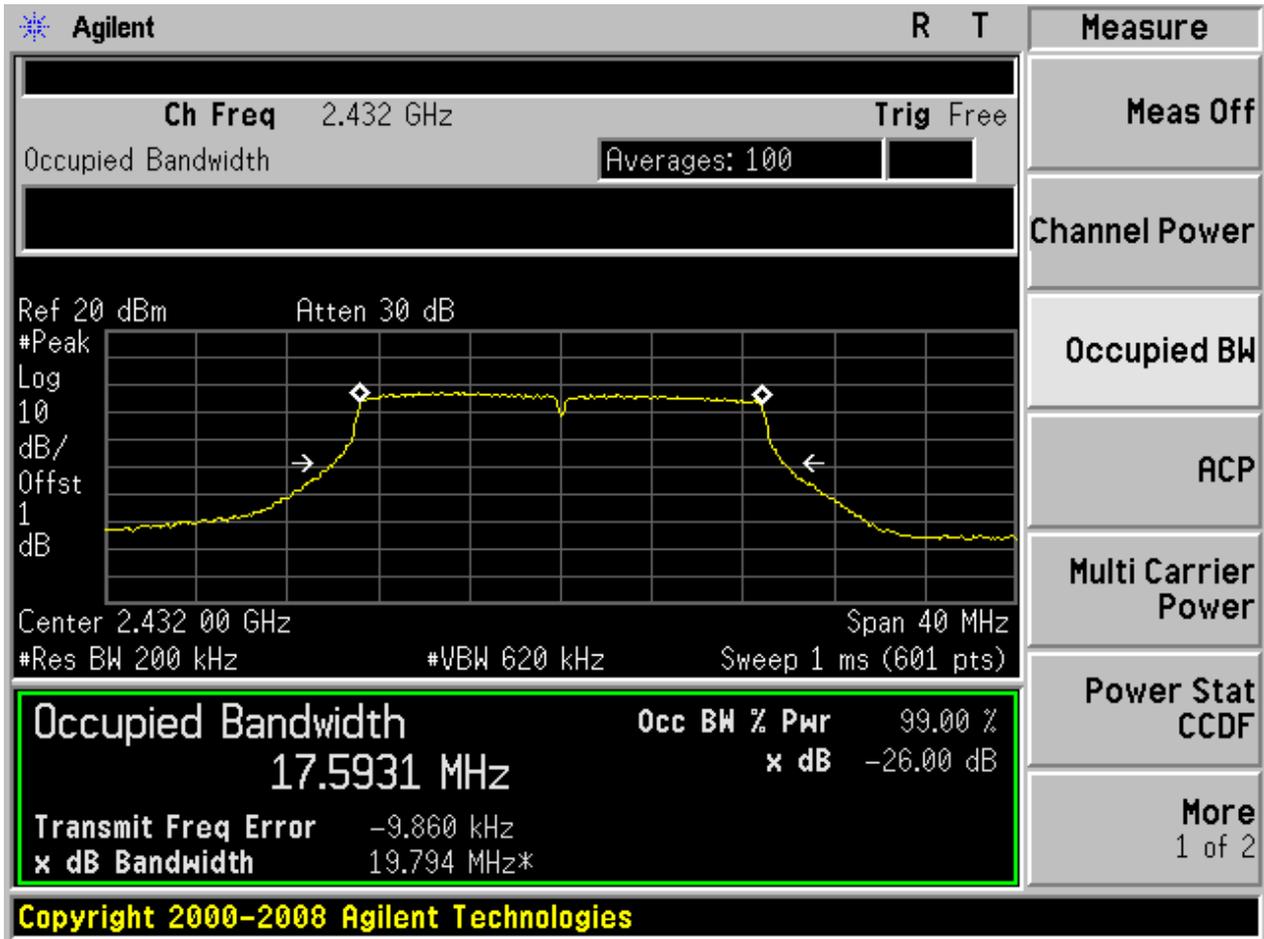
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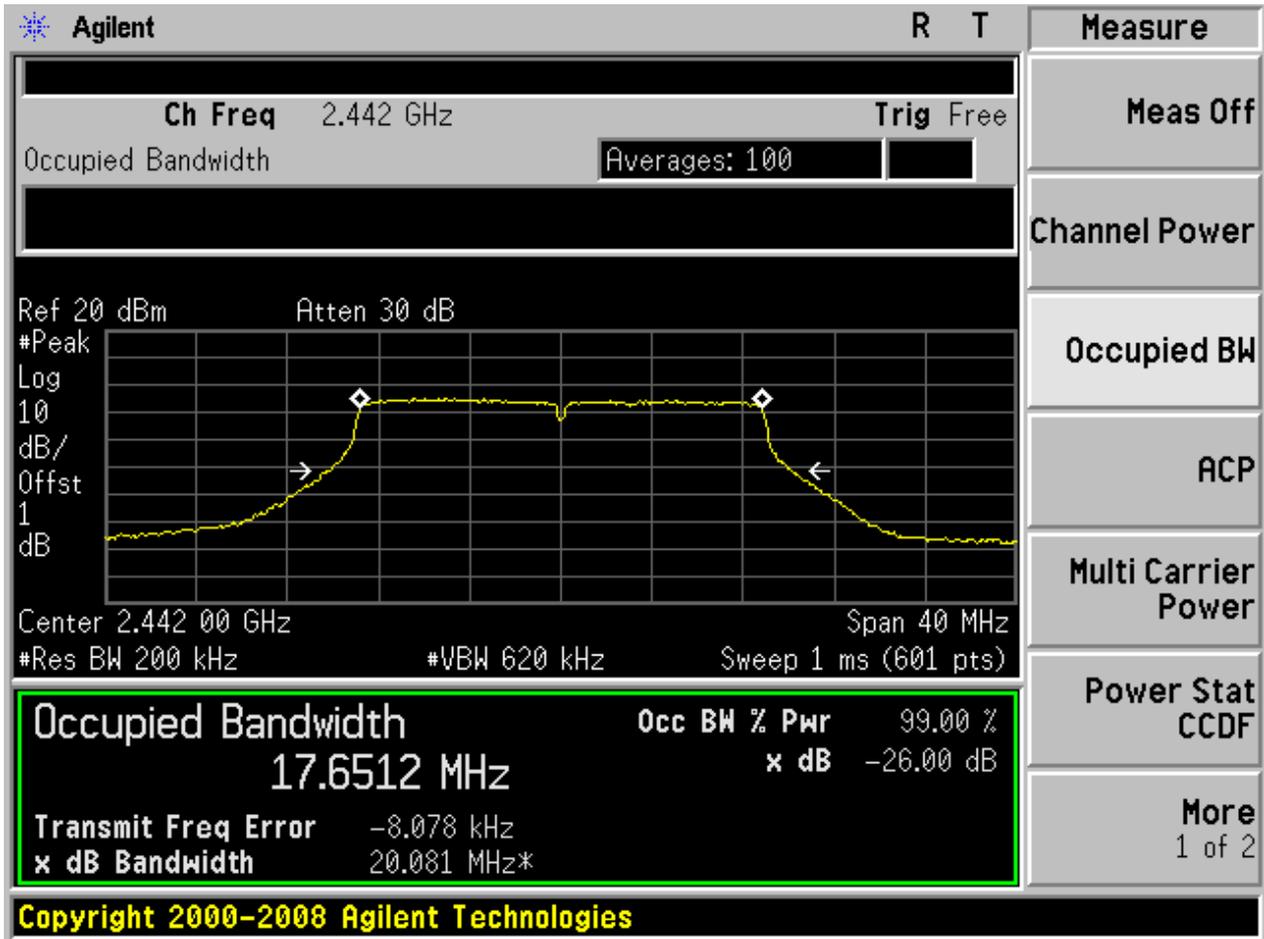
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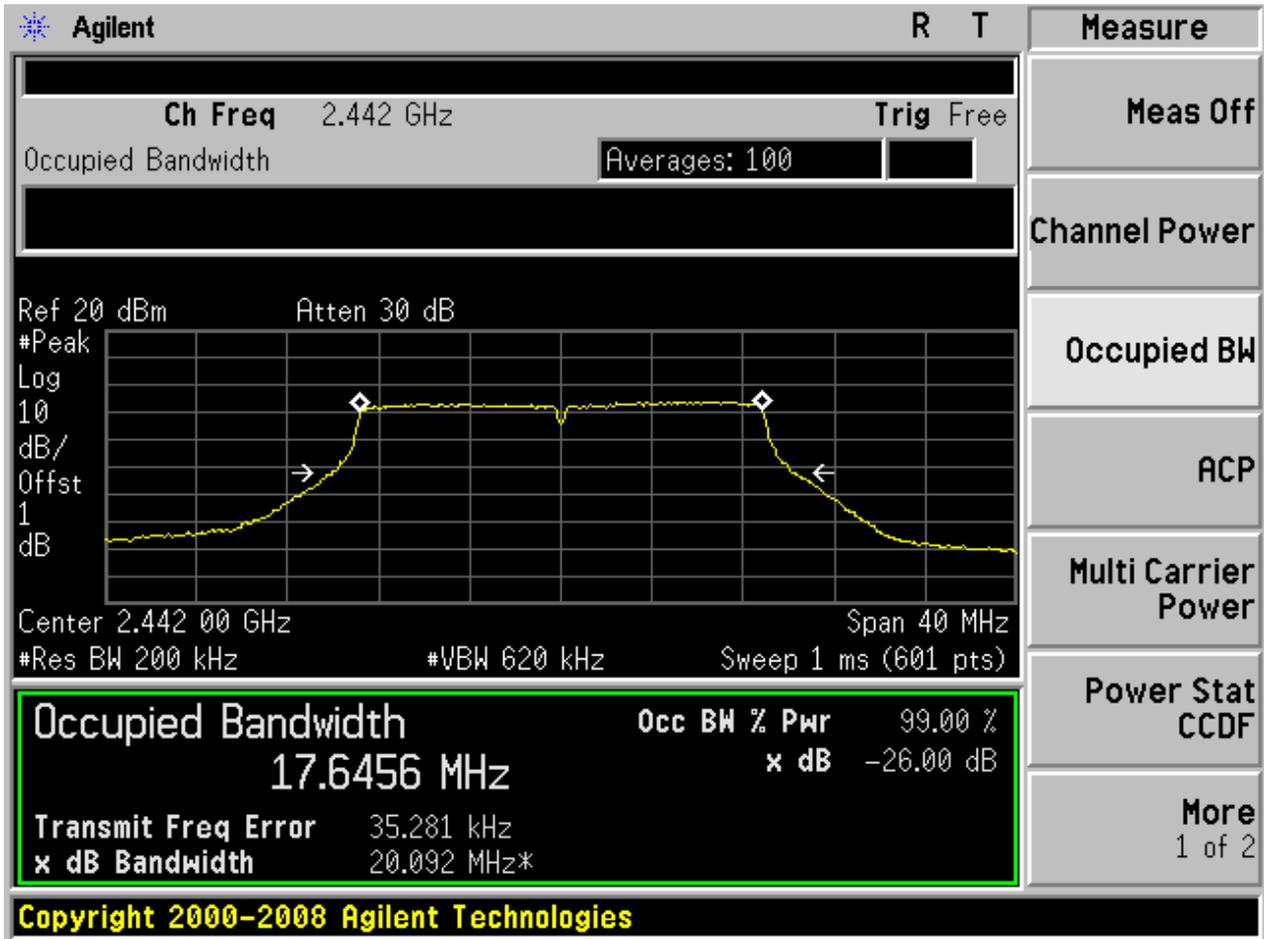
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2.15 11N20\_M@Ant 1

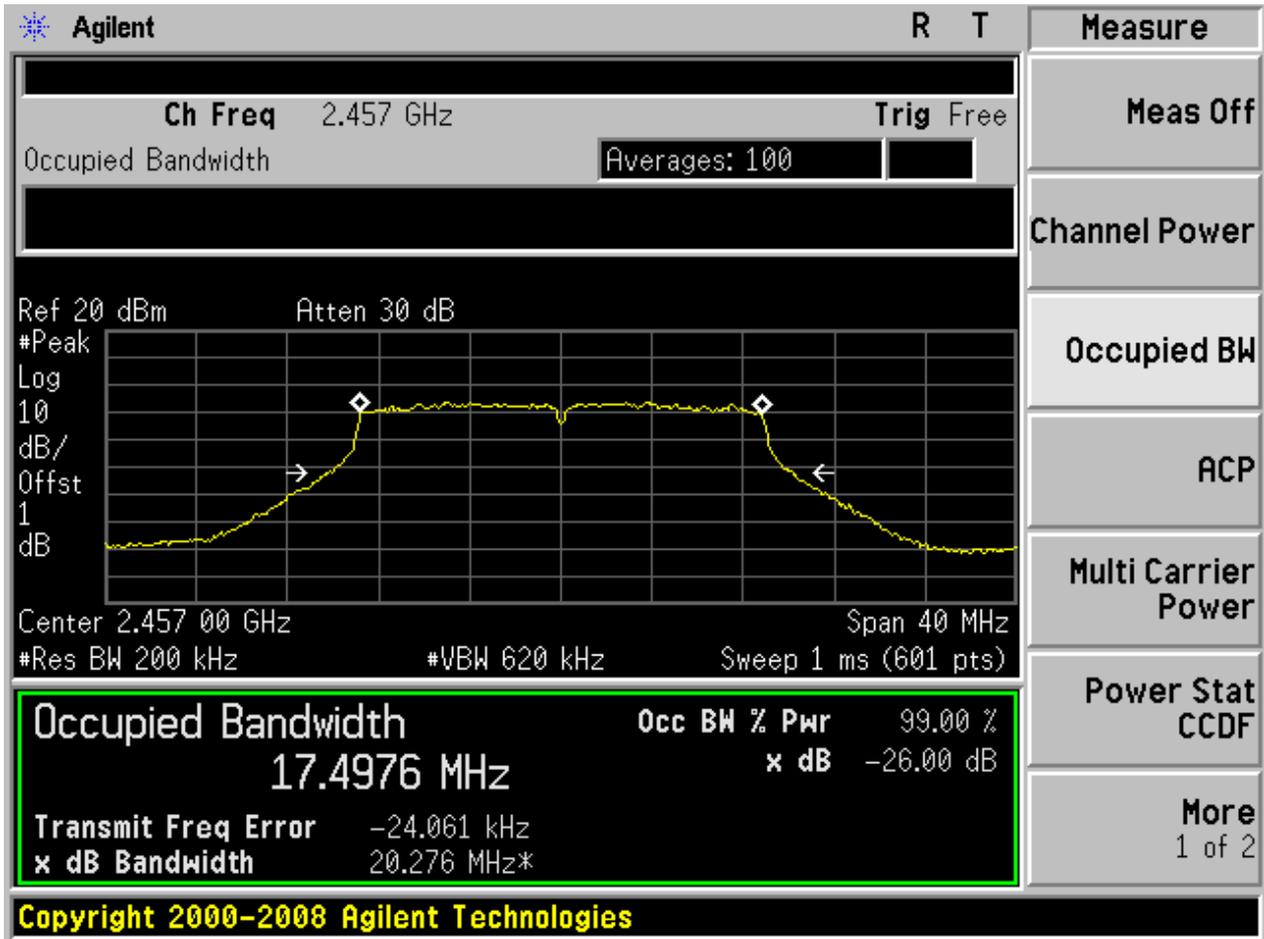


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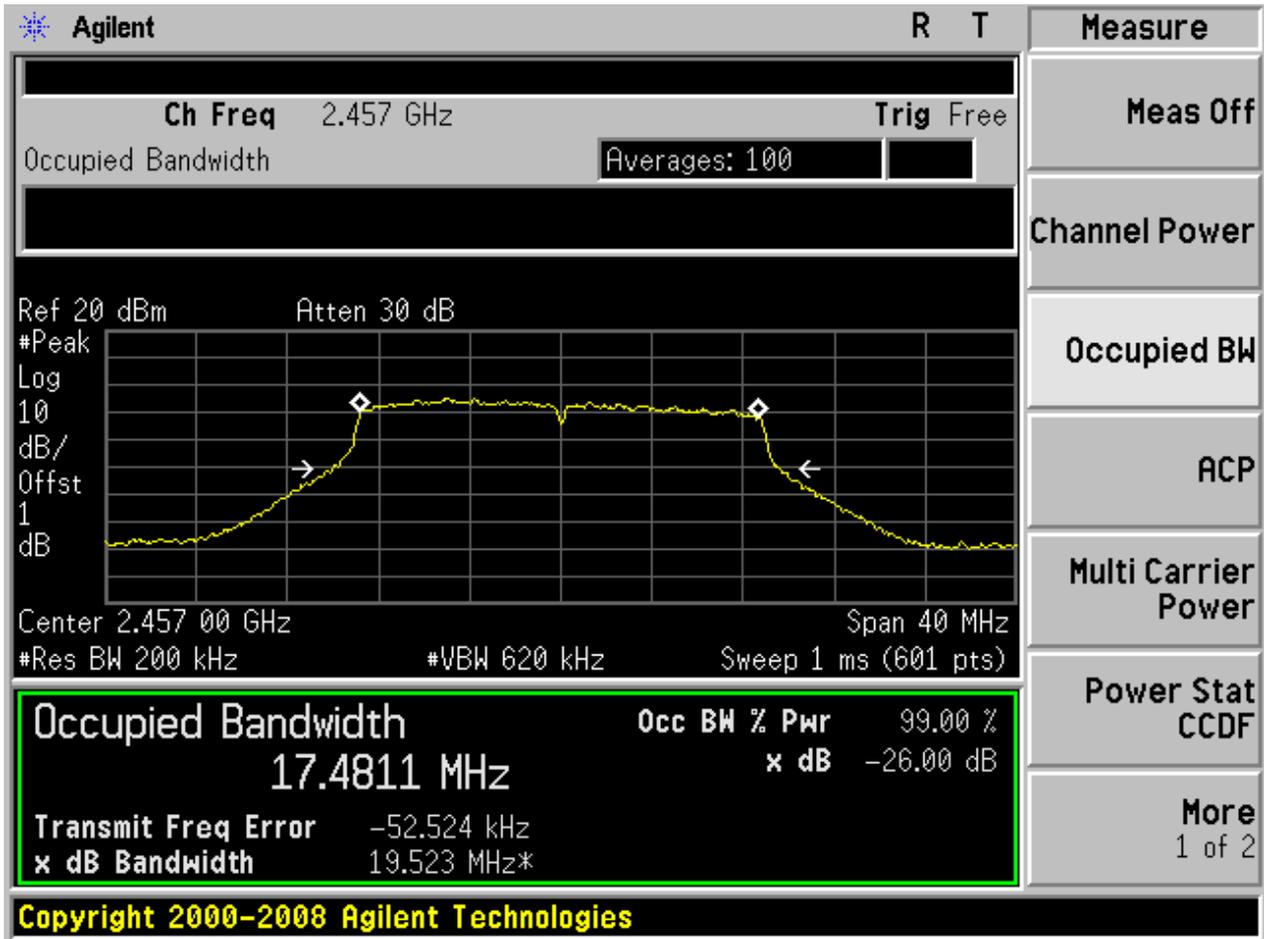




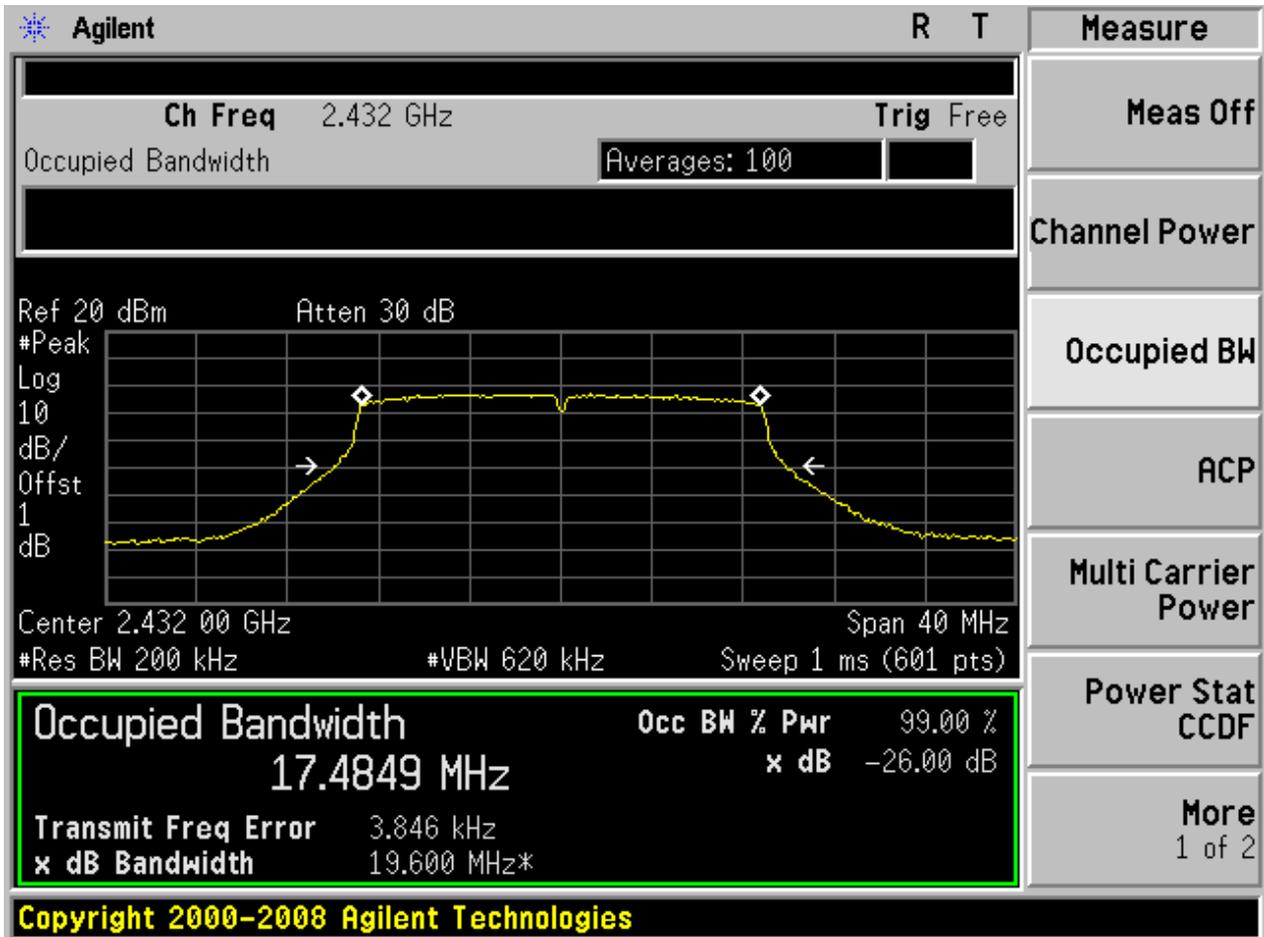
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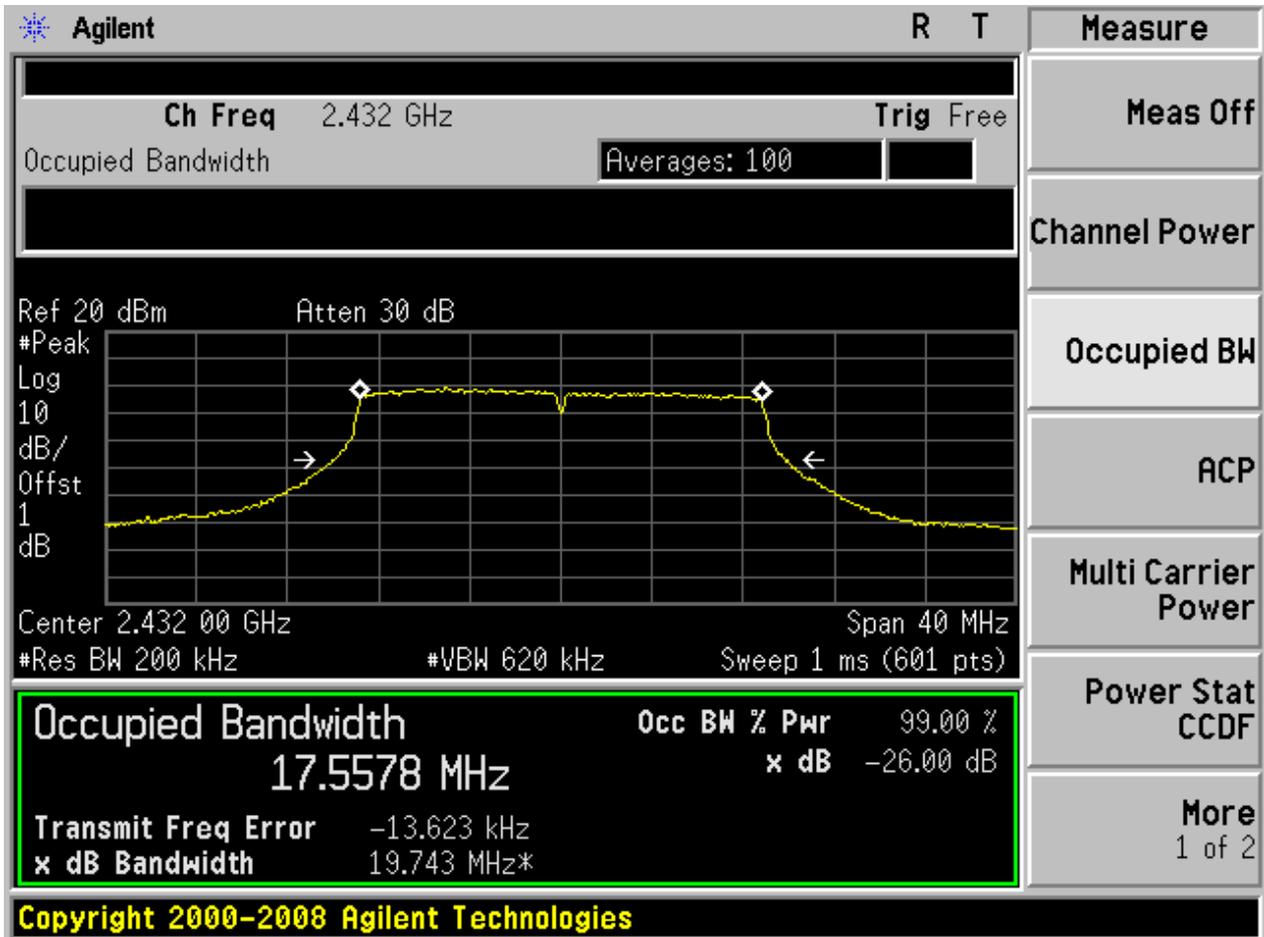
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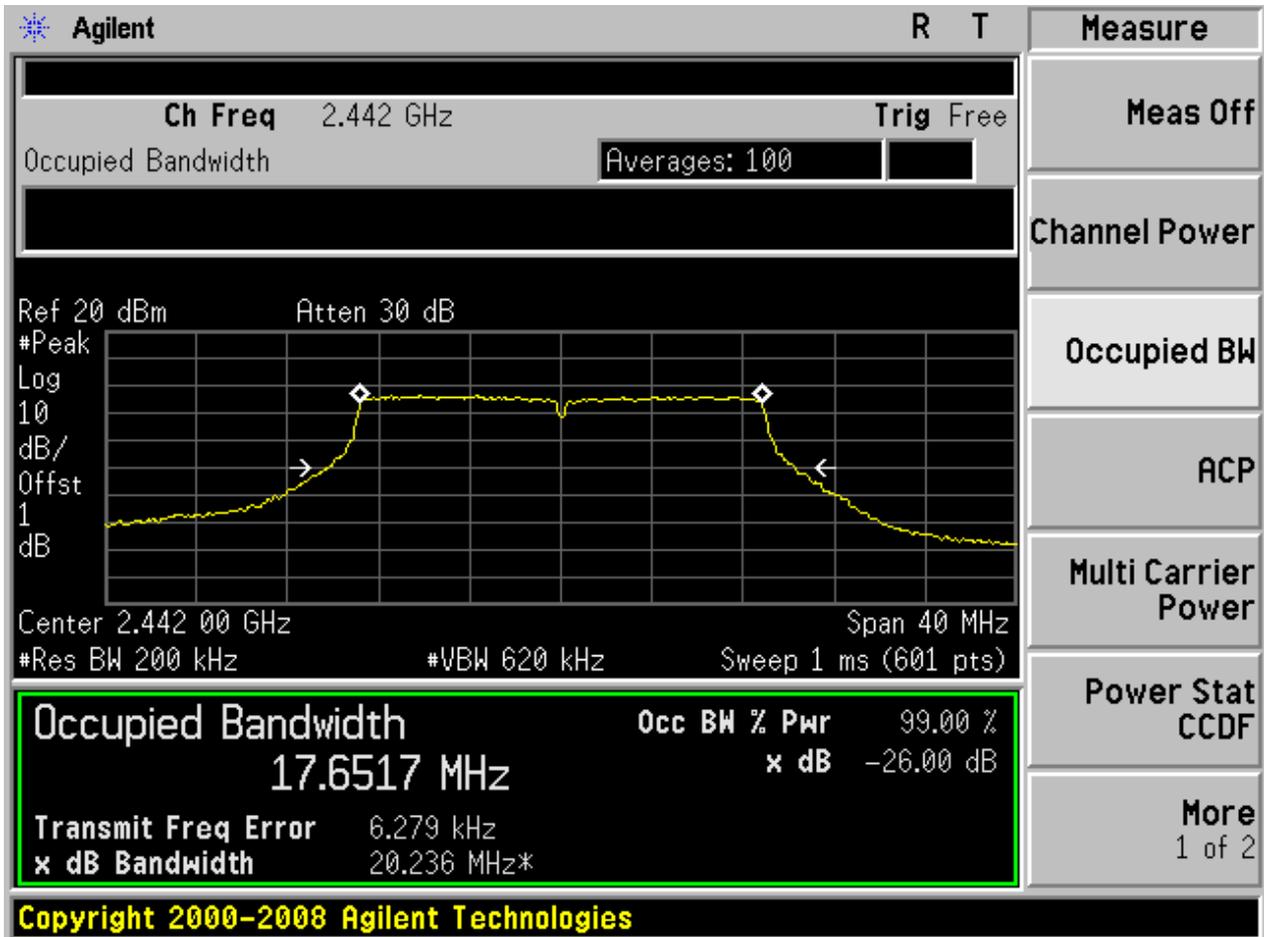
2.19 11N20m\_L@Ant 1



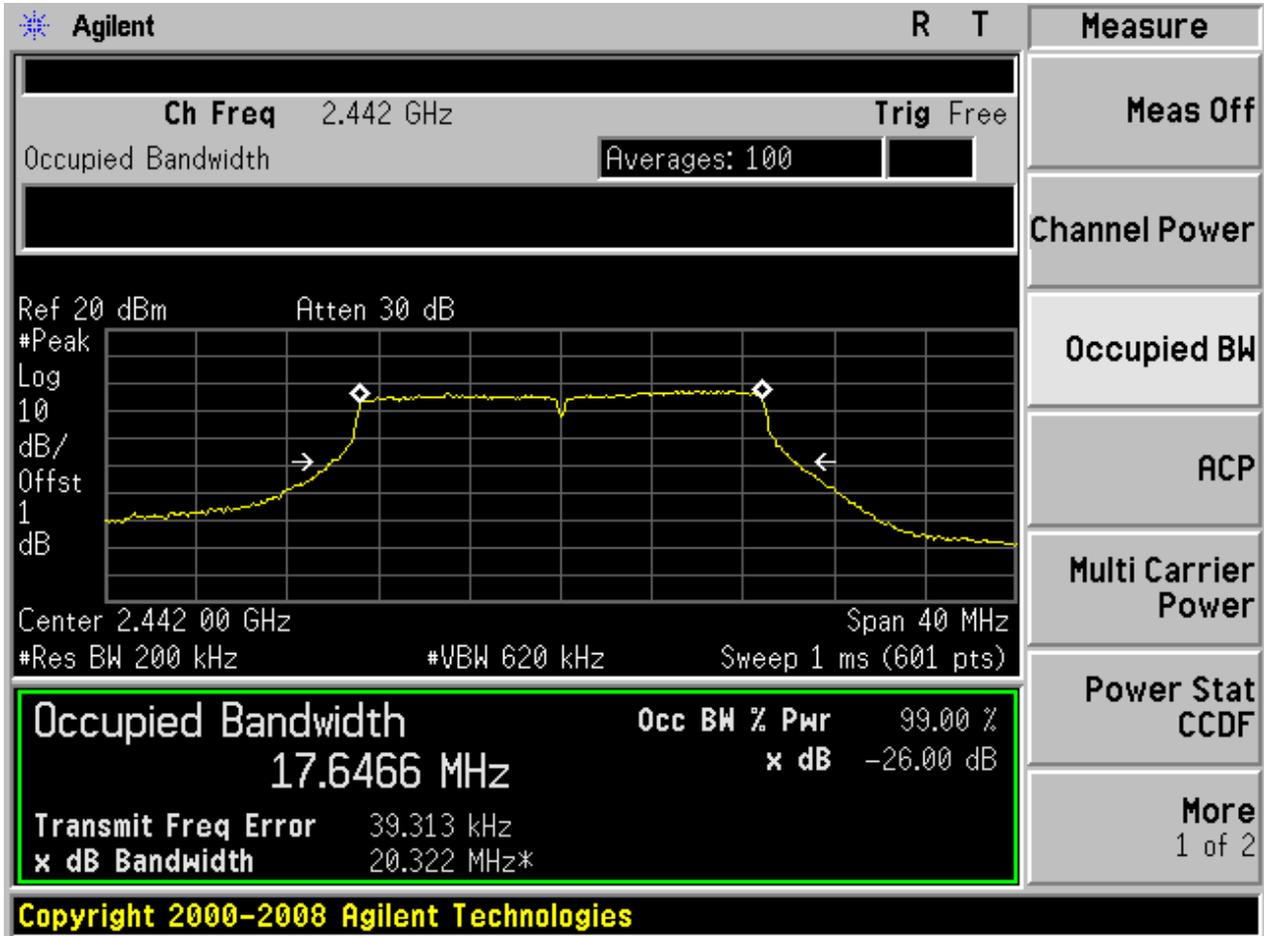
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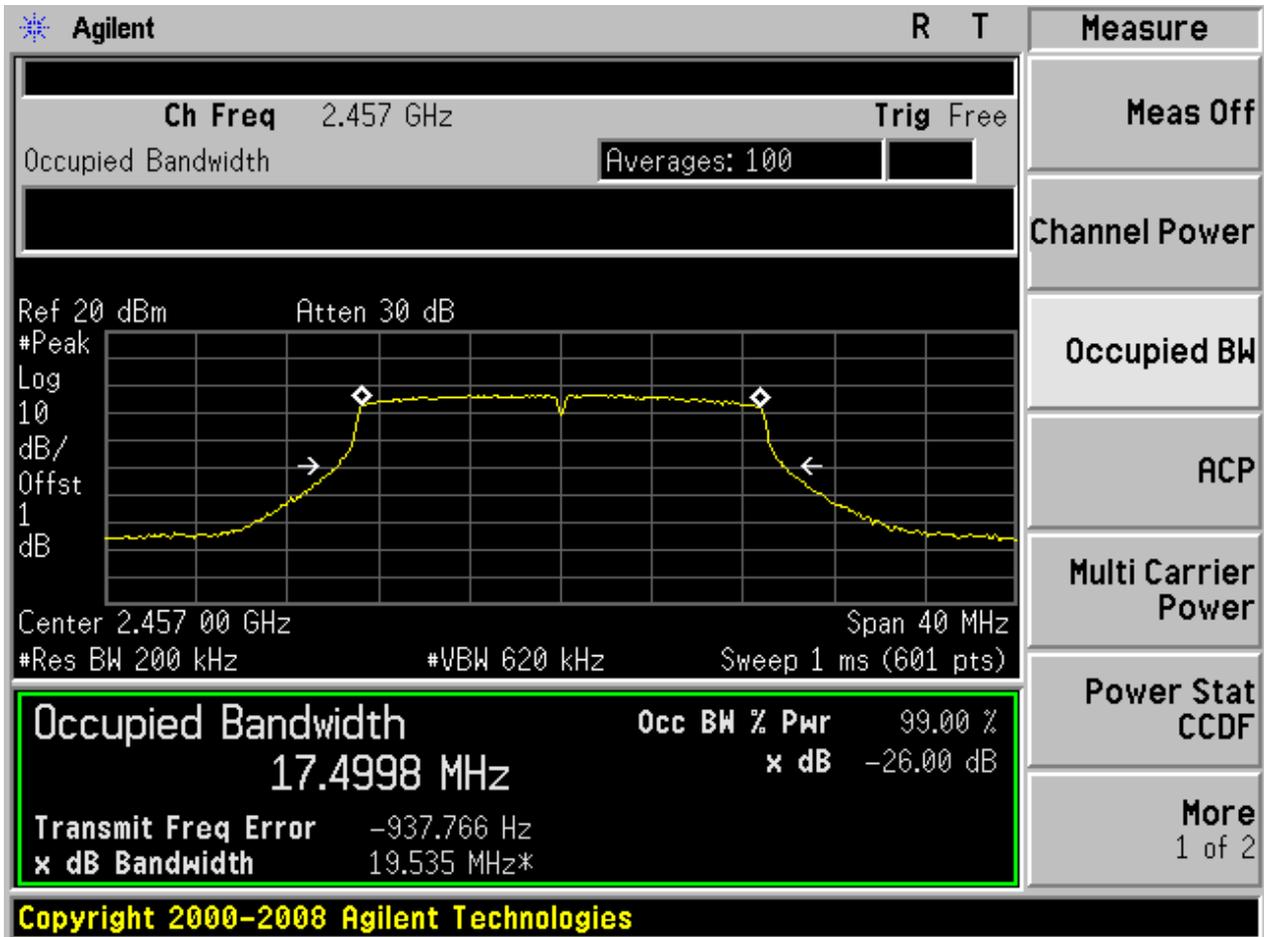
2.21 11N20m\_M@Ant 1



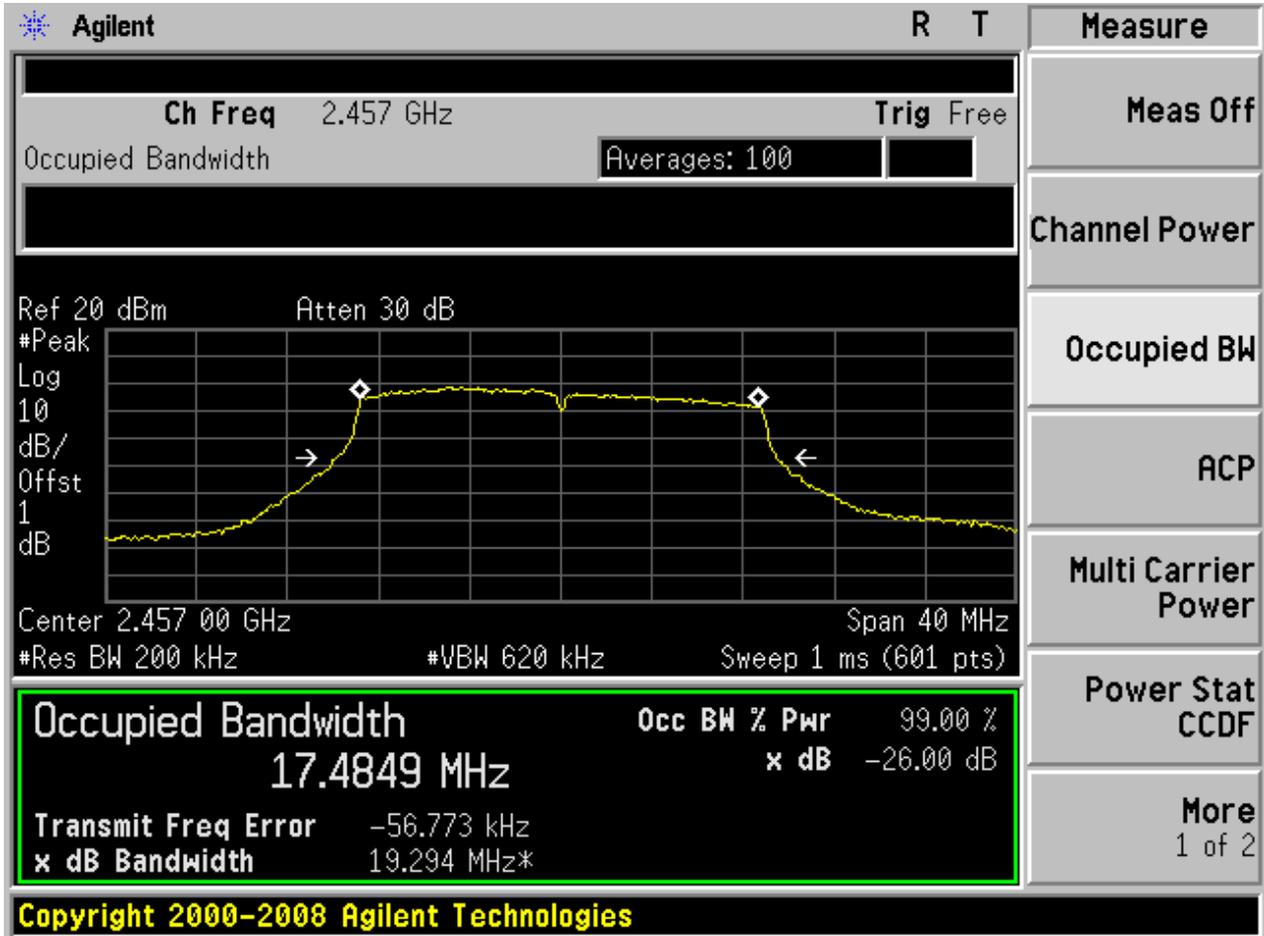
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2.23 11N20m\_H@Ant 1

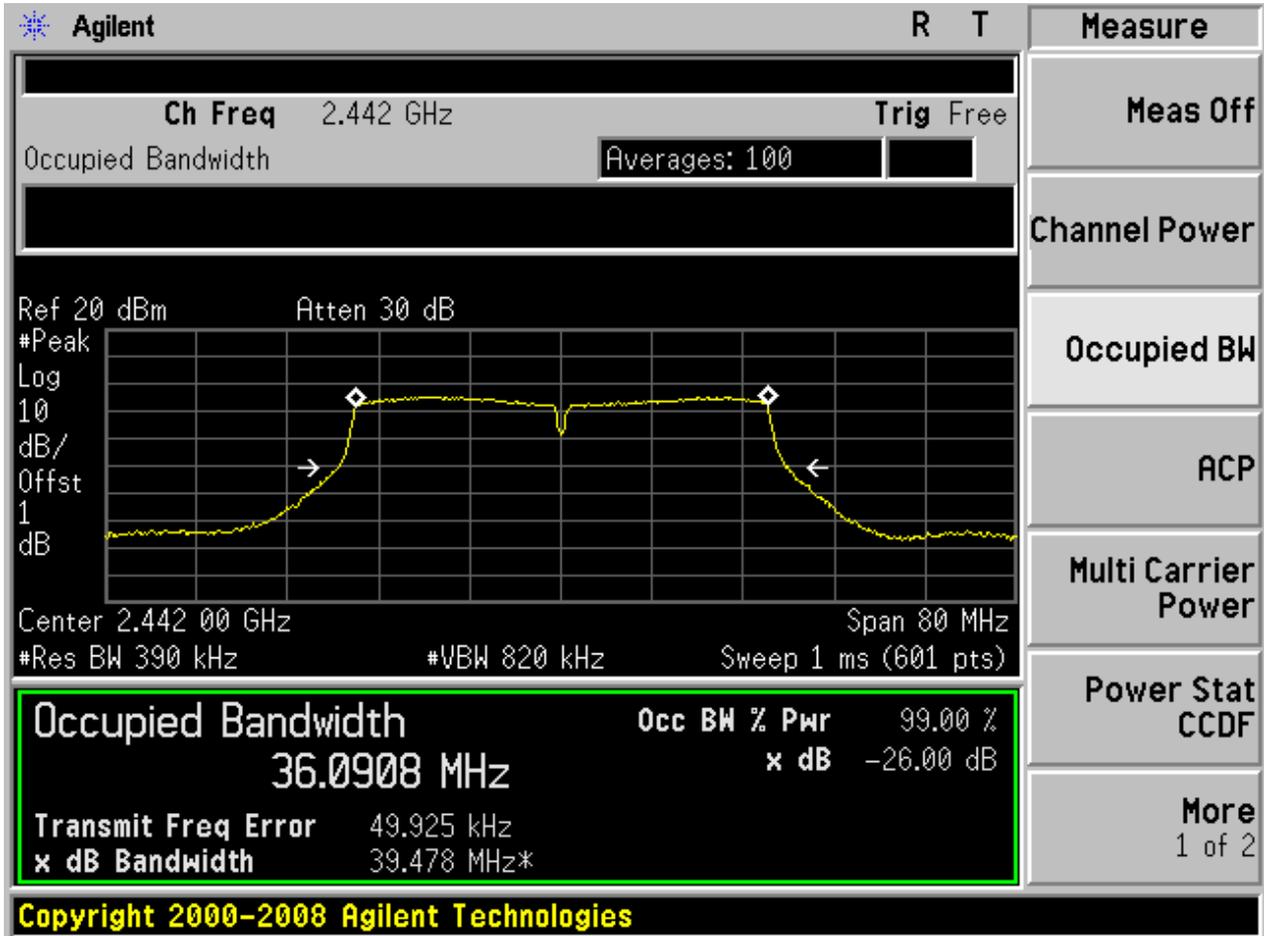


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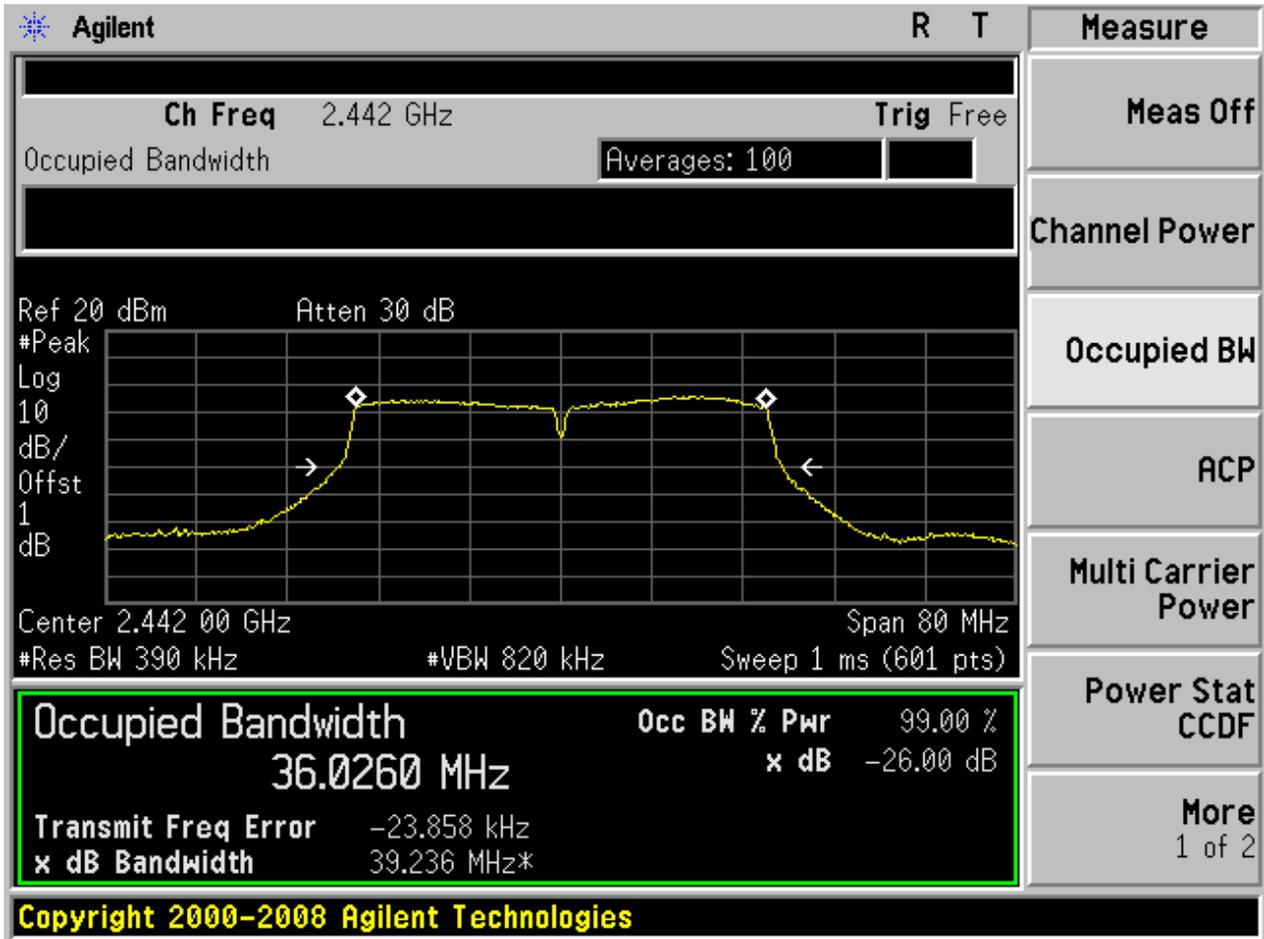




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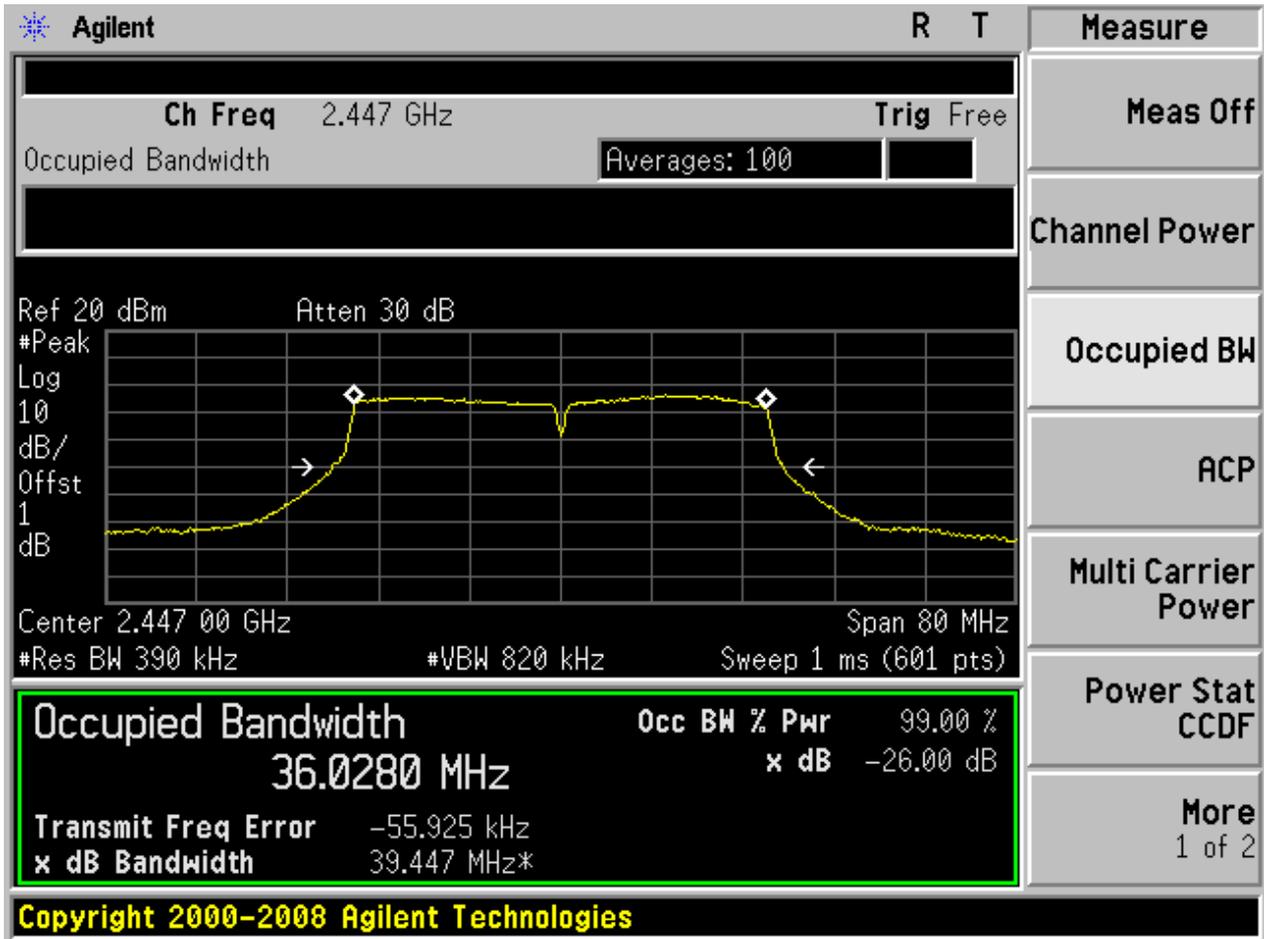


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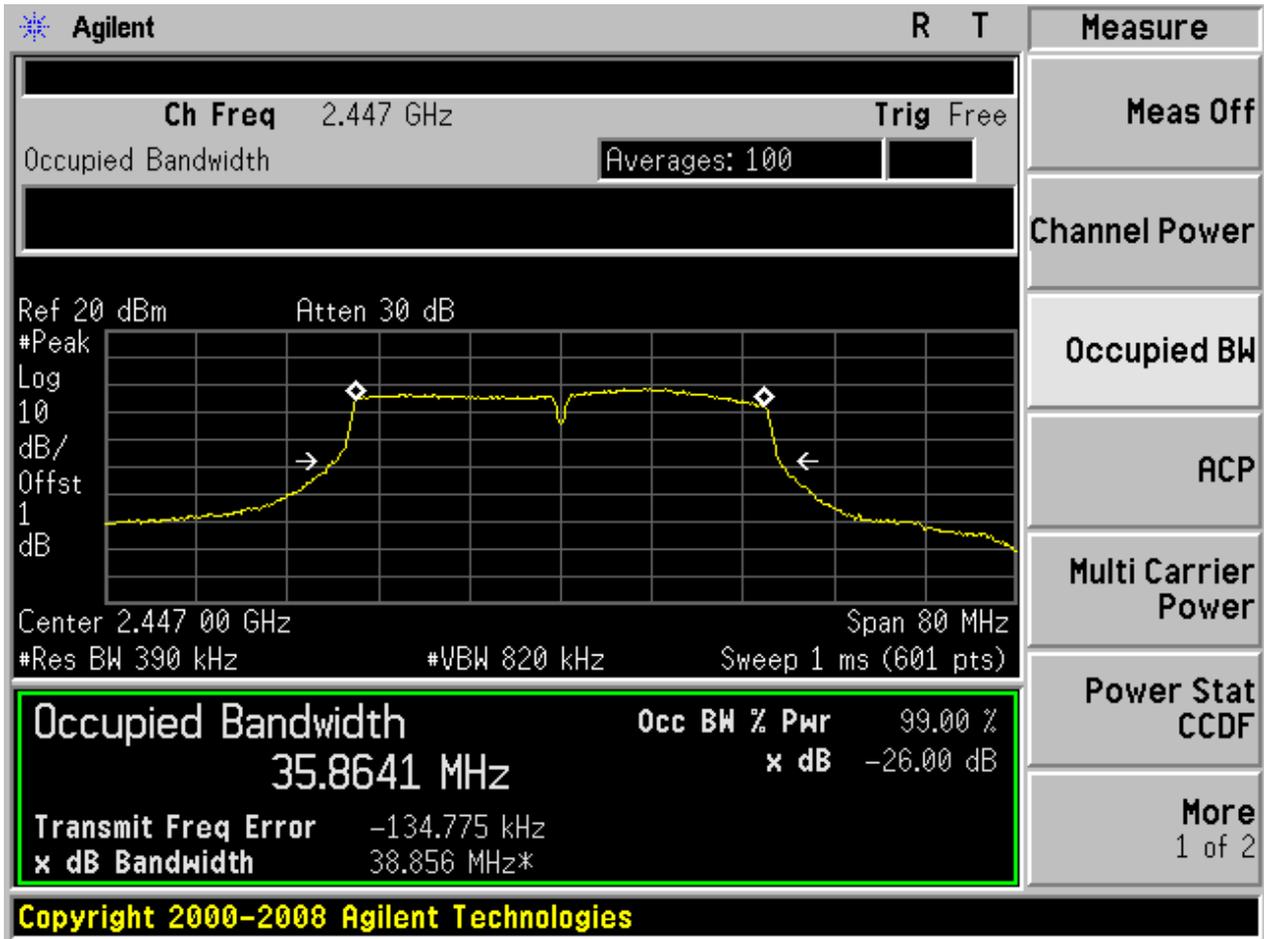




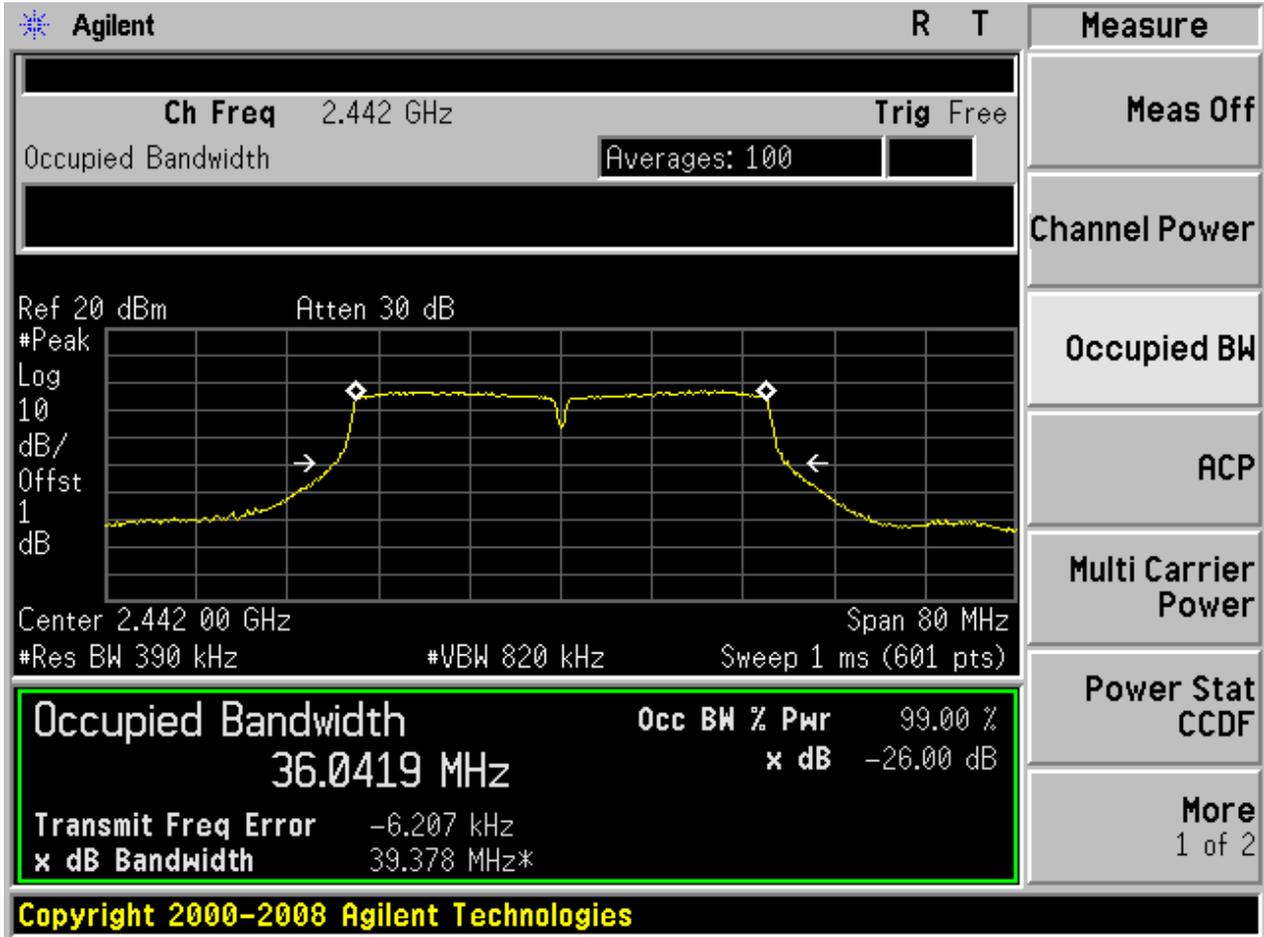
2.27 11N40\_H@Ant 1



2.28 11N40\_H@Ant 2

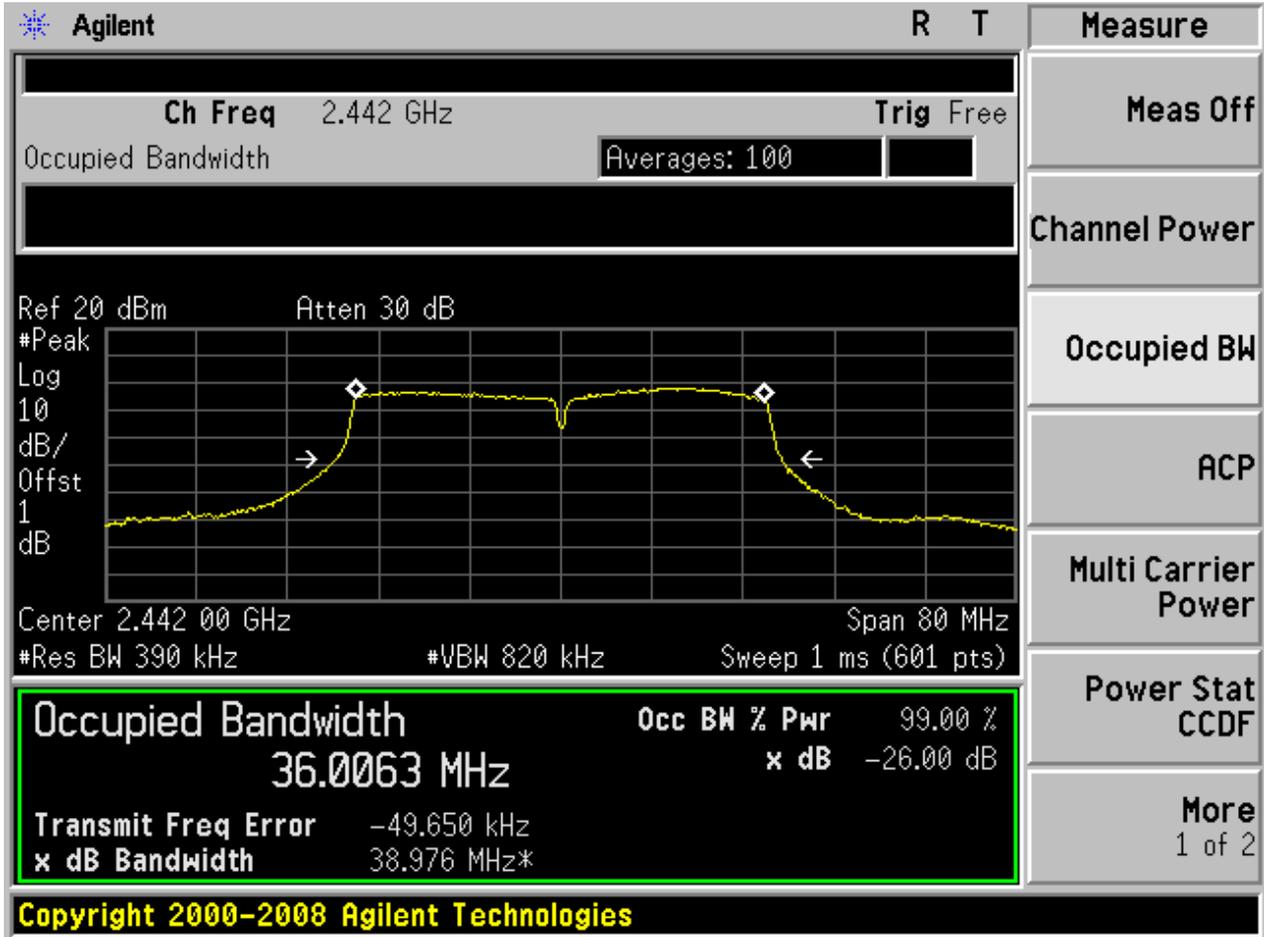


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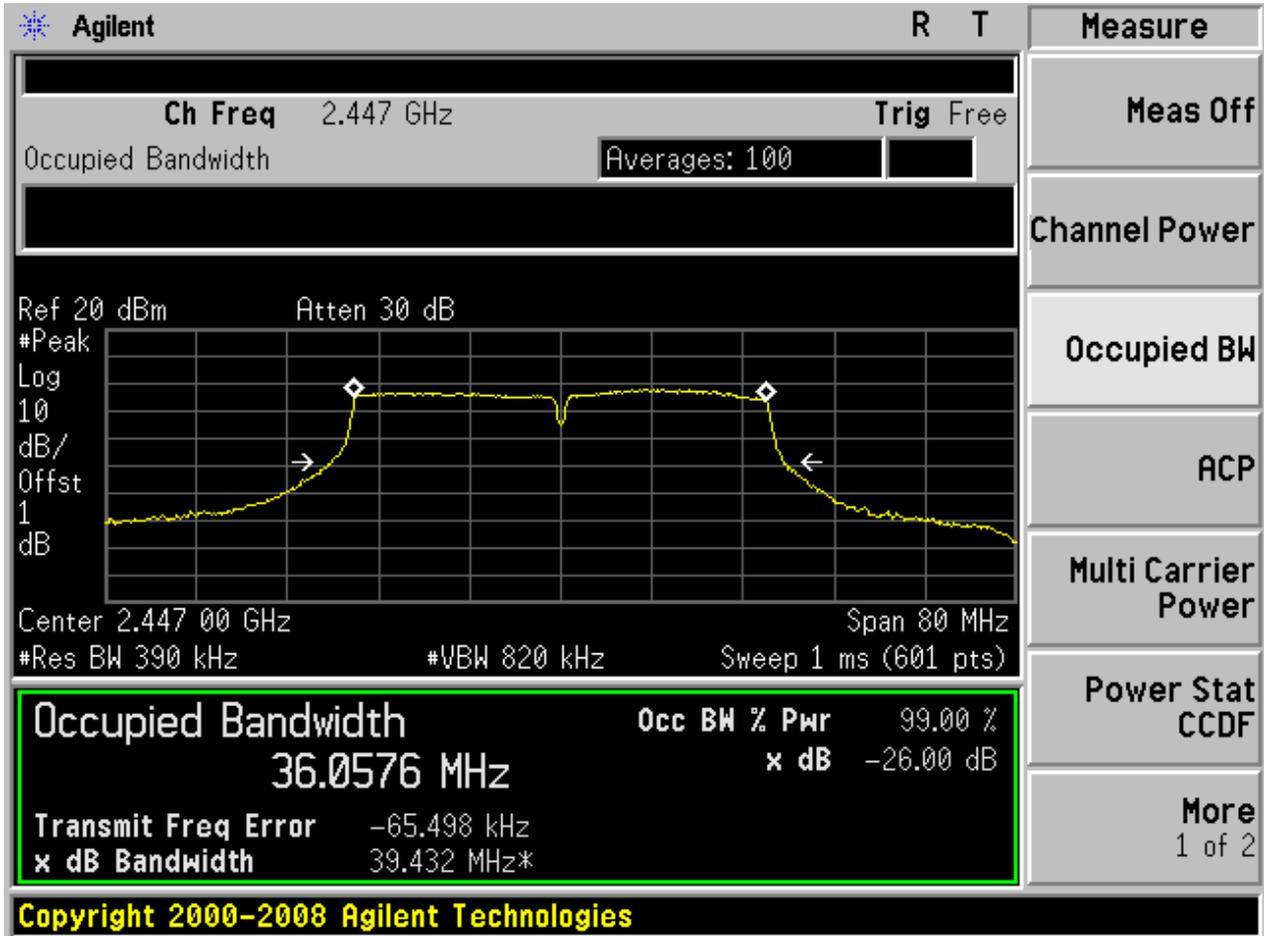




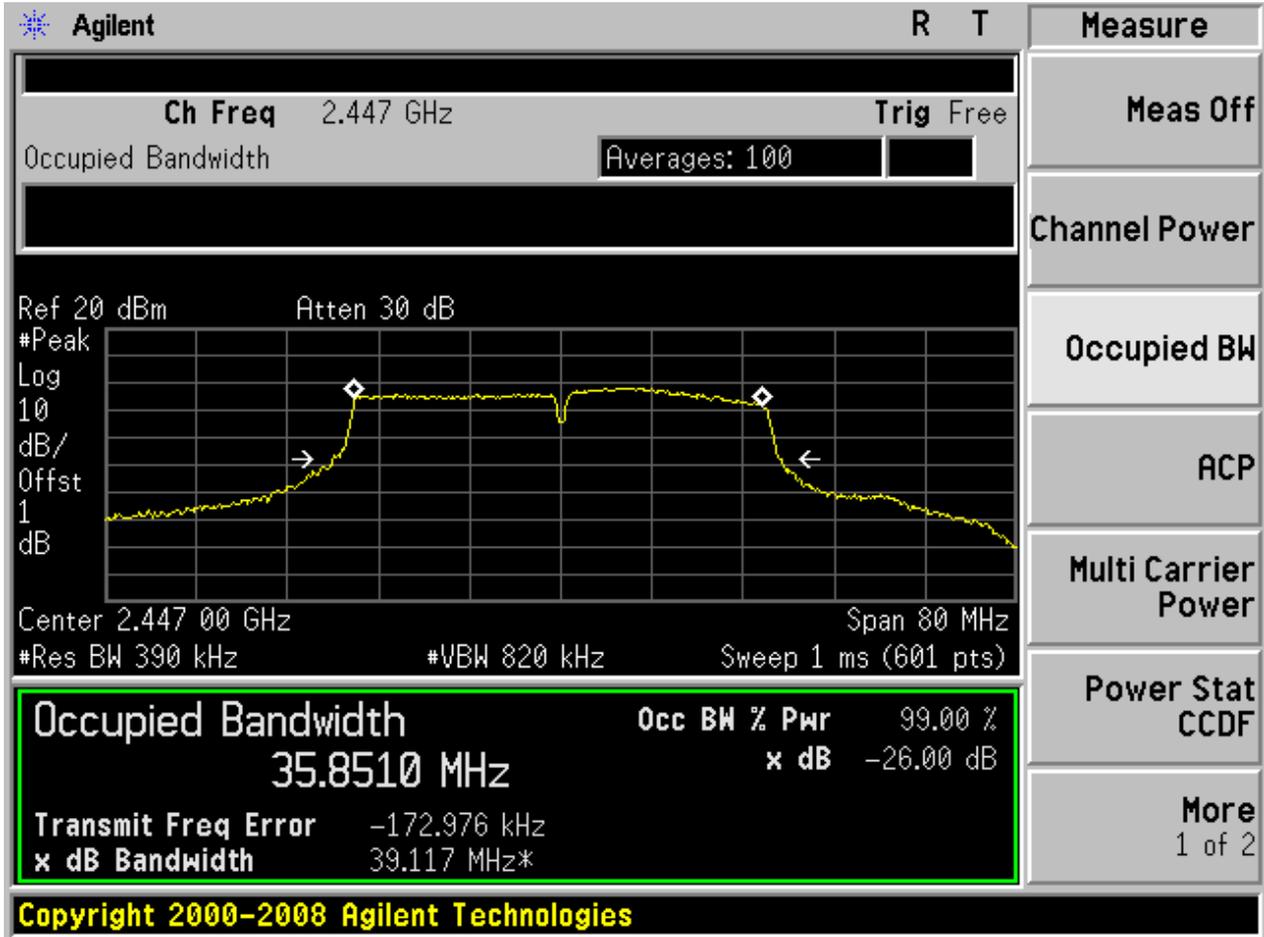
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2.31 11N40m\_H@Ant 1



2.32 11N40m\_H@Ant 2





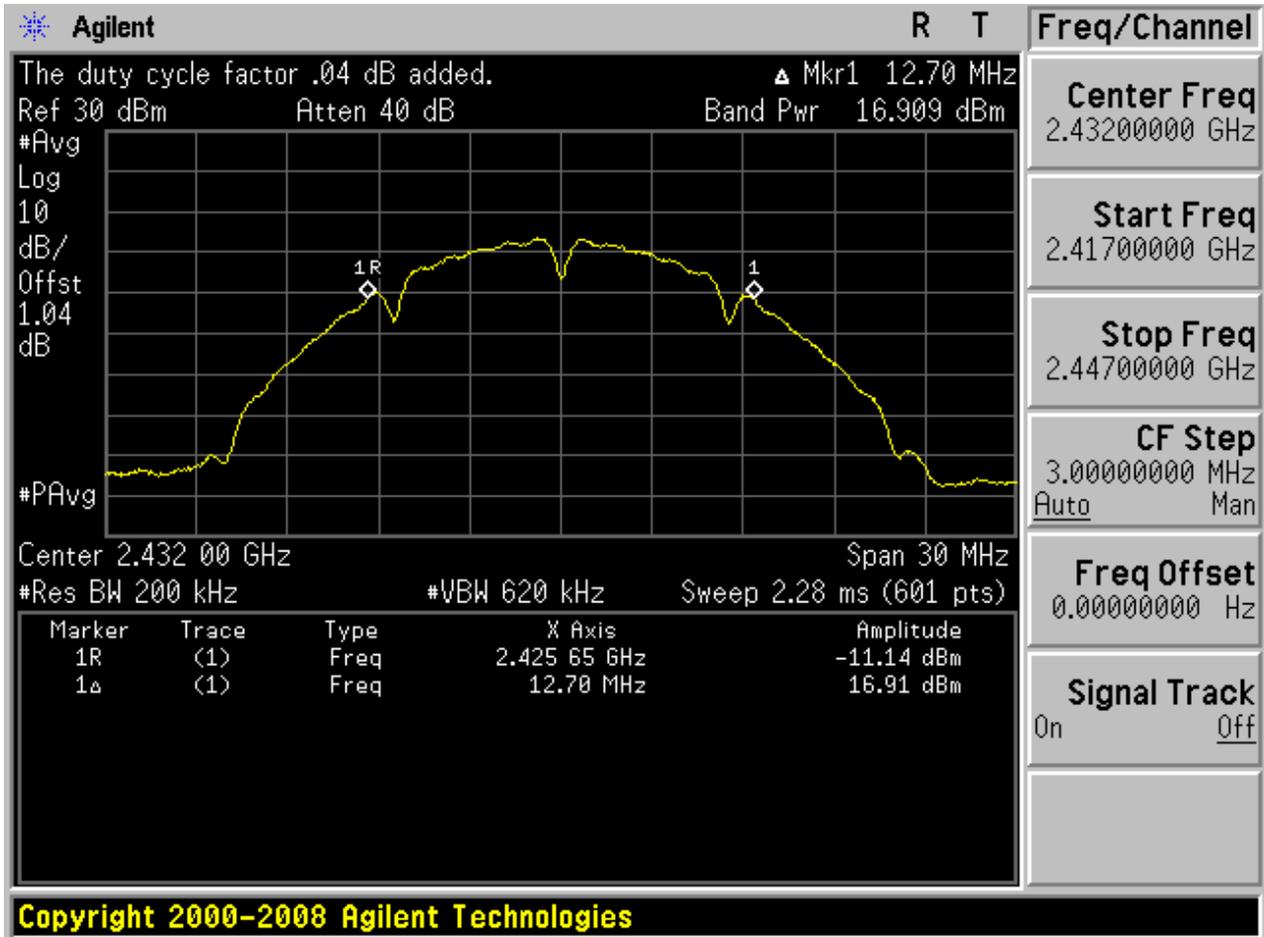
## Appendix C: Maximum Conducted Average Output Power

### Part I - Test Results

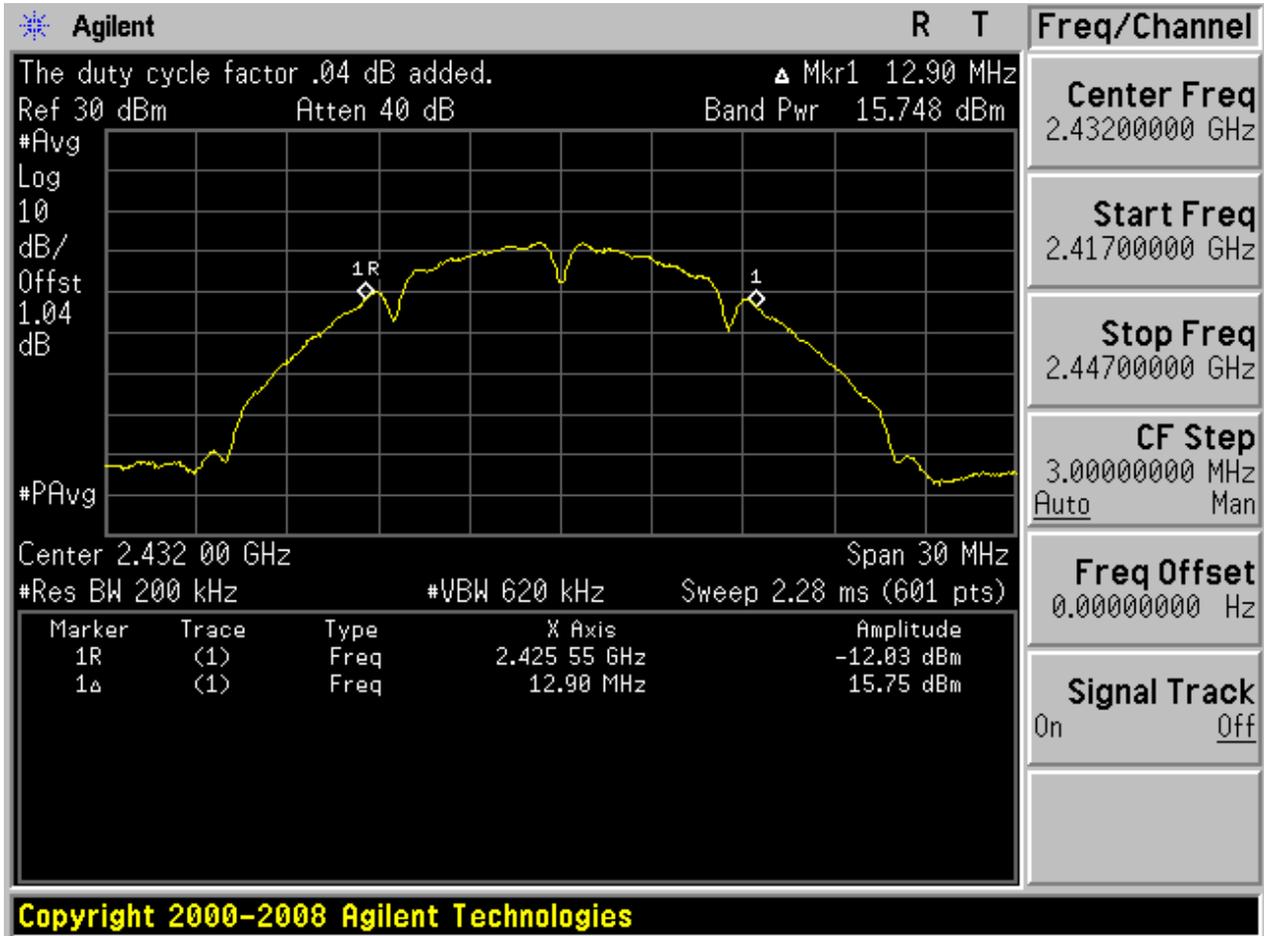
Test Mode	Test Channel	Frequency[MHz]	Ant	Power[dBm]	Verdict
11B	L	2432	Ant 1	16.91	pass
11B	L	2432	Ant 2	15.75	pass
11B	M	2442	Ant 1	16.46	pass
11B	M	2442	Ant 2	15.71	pass
11B	H	2457	Ant 1	16.32	pass
11B	H	2457	Ant 2	16.02	pass
11G	L	2432	Ant 2	14.46	pass
11G	L	2432	Ant 1	14.42	pass
11G	M	2442	Ant 2	11.46	pass
11G	M	2442	Ant 1	12.65	pass
11G	H	2457	Ant 2	11.95	pass
11G	H	2457	Ant 1	12.72	pass
11N20	L	2432	Ant 1	13.22	pass
11N20	L	2432	Ant 2	13.48	pass
11N20	M	2442	Ant 1	11.65	pass
11N20	M	2442	Ant 2	10.27	pass
11N20	H	2457	Ant 1	9.75	pass
11N20	H	2457	Ant 2	9.85	pass
11N20m	L	2432	Ant 1	13.59	pass
11N20m	L	2432	Ant 2	15.30	pass
11N20m	M	2442	Ant 1	13.32	pass
11N20m	M	2442	Ant 2	13.60	pass
11N20m	H	2457	Ant 1	13.43	pass
11N20m	H	2457	Ant 2	14.02	pass
11N40	L	2442	Ant 1	11.32	pass
11N40	L	2442	Ant 2	10.97	pass
11N40	H	2447	Ant 1	12.02	pass
11N40	H	2447	Ant 2	13.53	pass
11N40m	L	2442	Ant 1	13.75	pass
11N40m	L	2442	Ant 2	14.13	pass
11N40m	H	2447	Ant 1	14.25	pass
11N40m	H	2447	Ant 2	15.93	pass

Part II - Test Plots

2.1 11B\_L@Ant 1

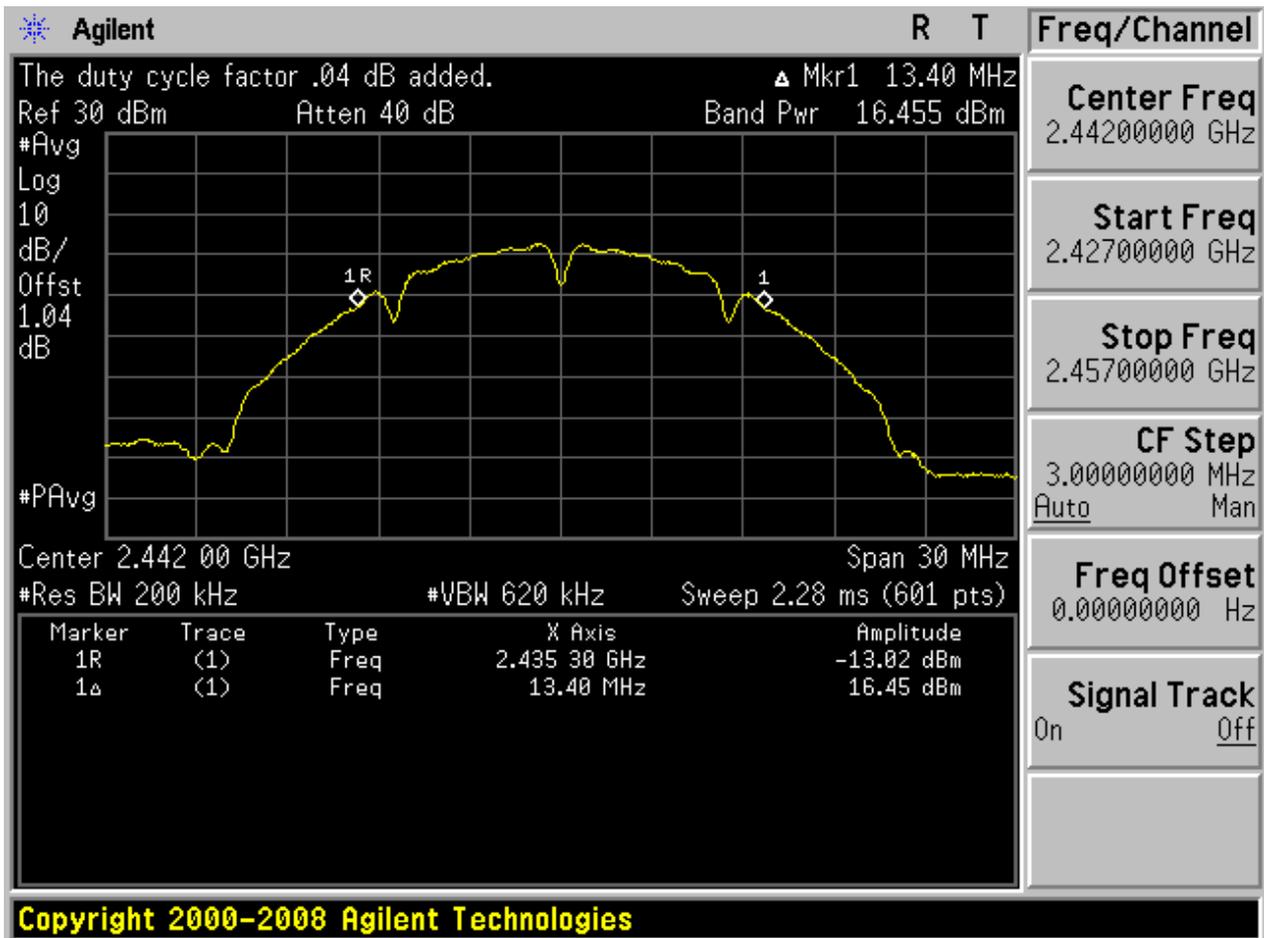


2.2 11B\_L@Ant 2





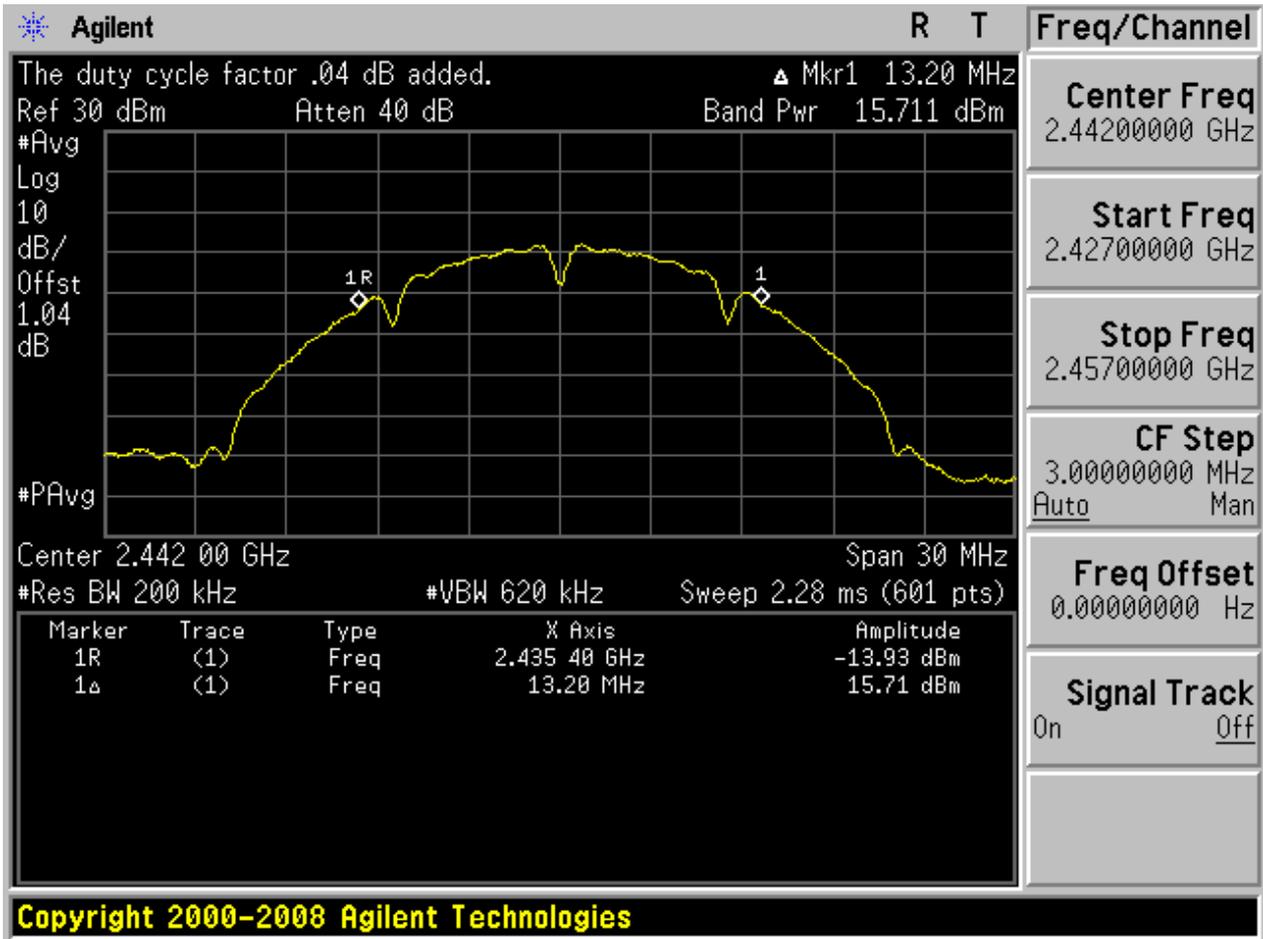
2.3 11B\_M@Ant 1



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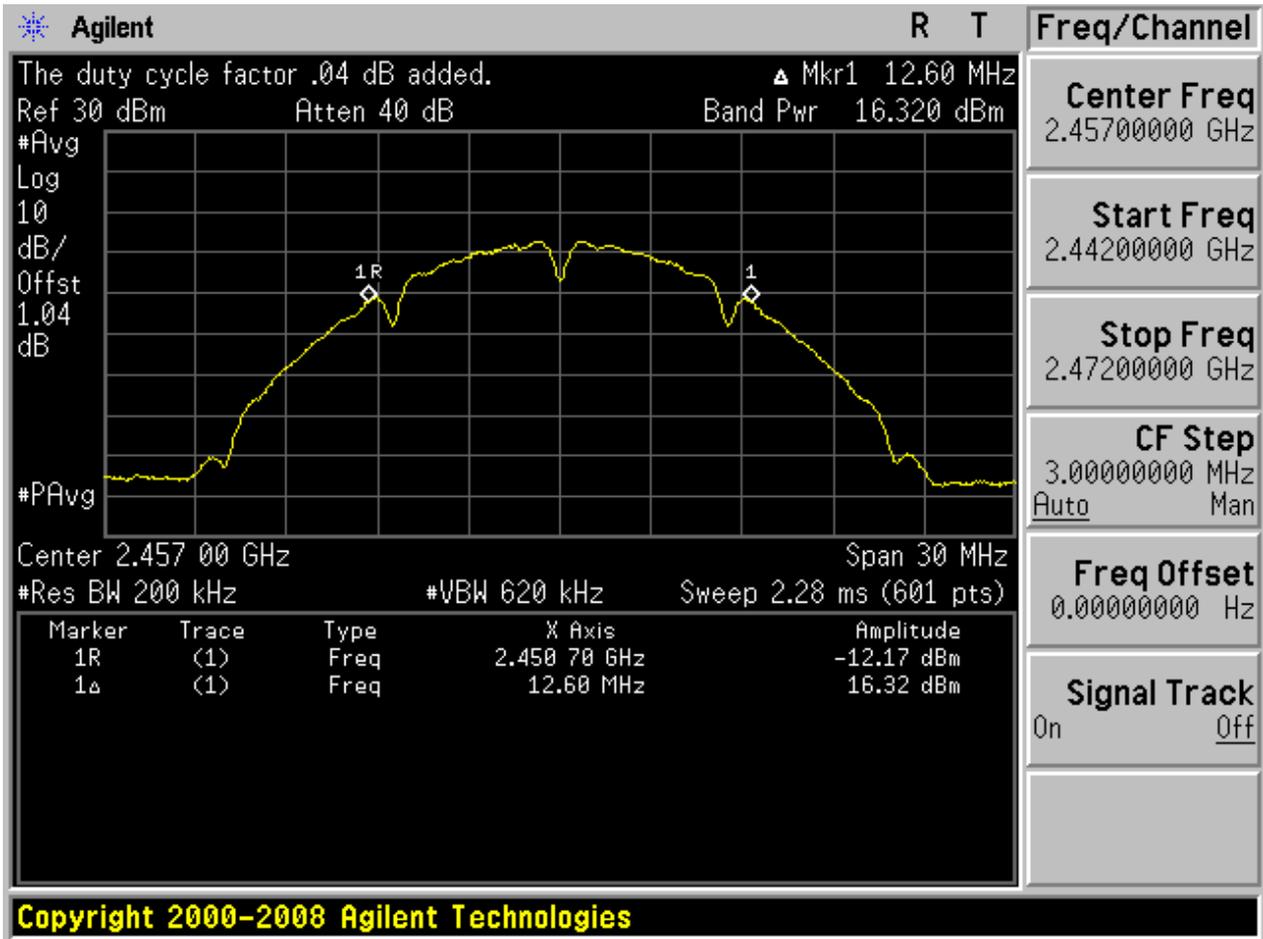


2.4 11B\_M@Ant 2





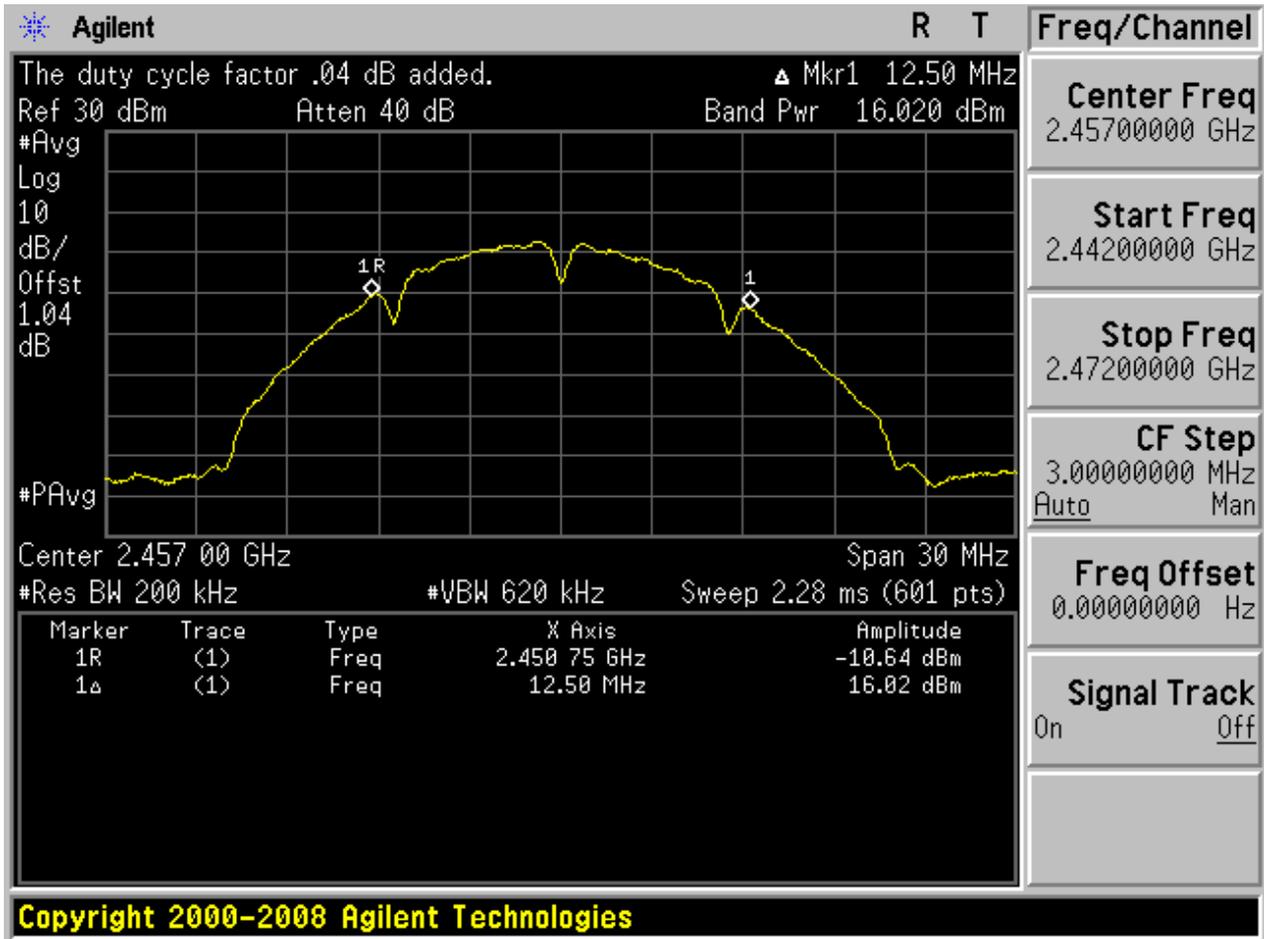
2.5 11B\_H@Ant 1



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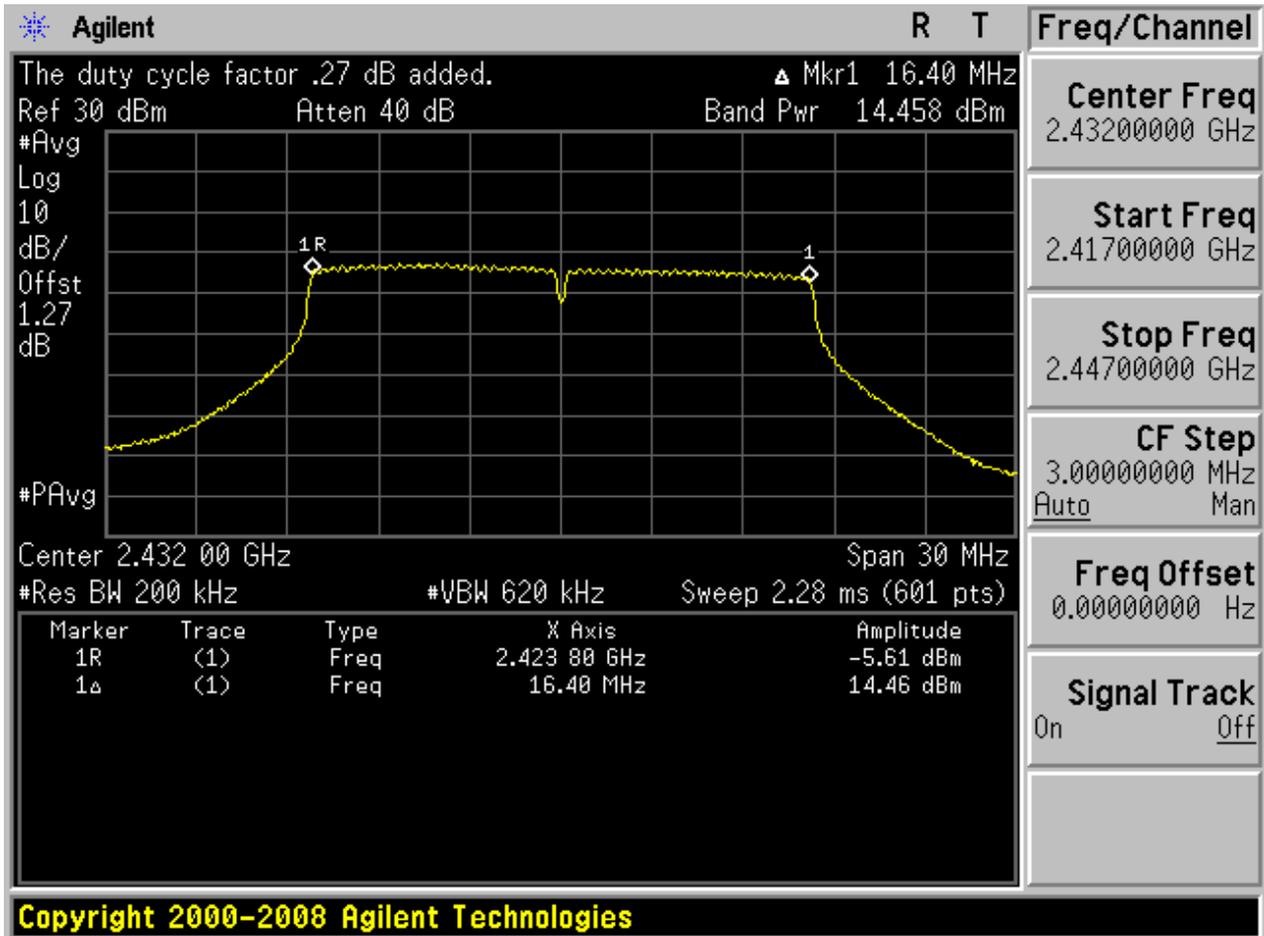


2.6 11B\_H@Ant 2





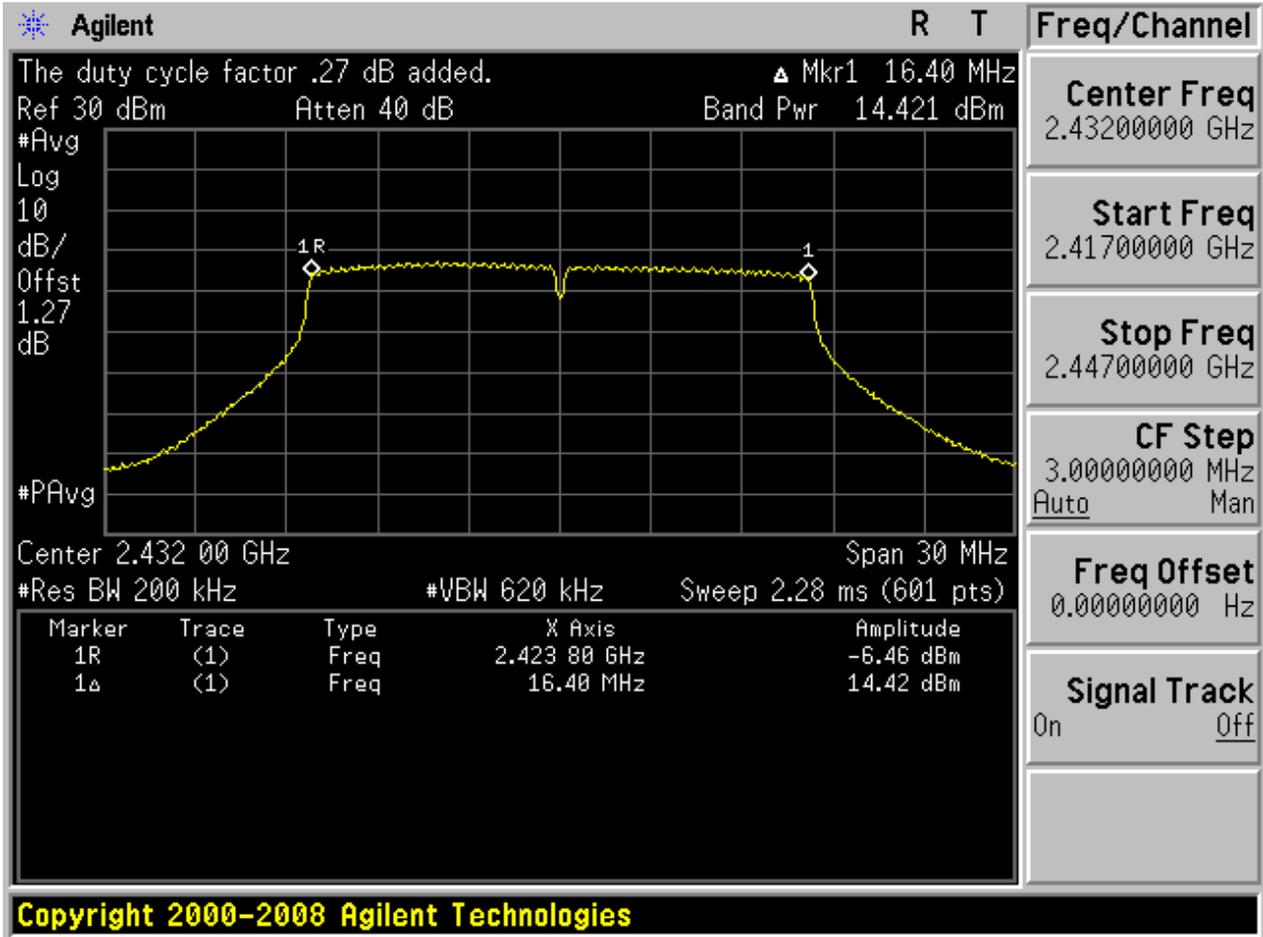
2.7 11G\_L@Ant 2



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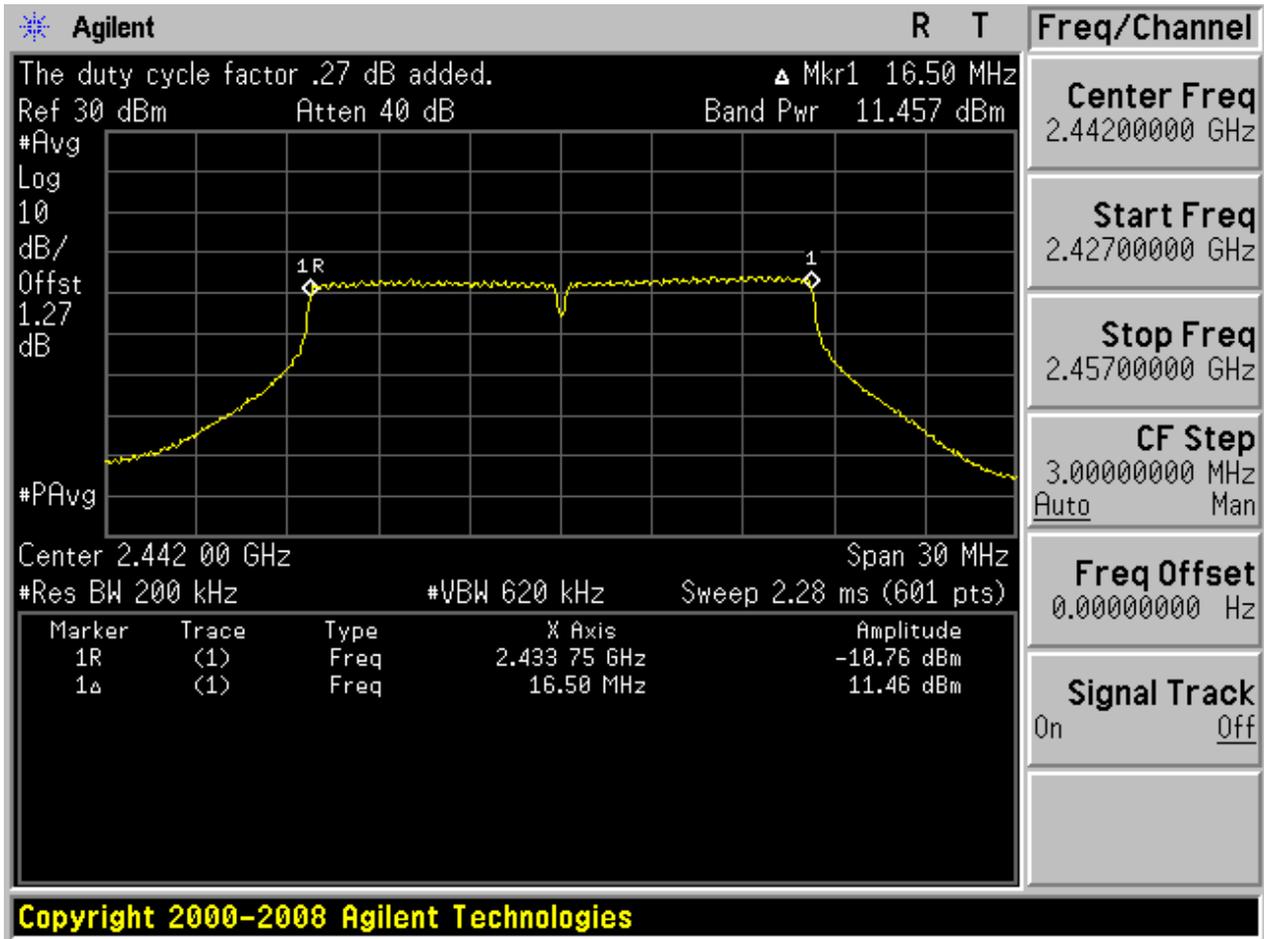
2.8 11G\_L@Ant 1



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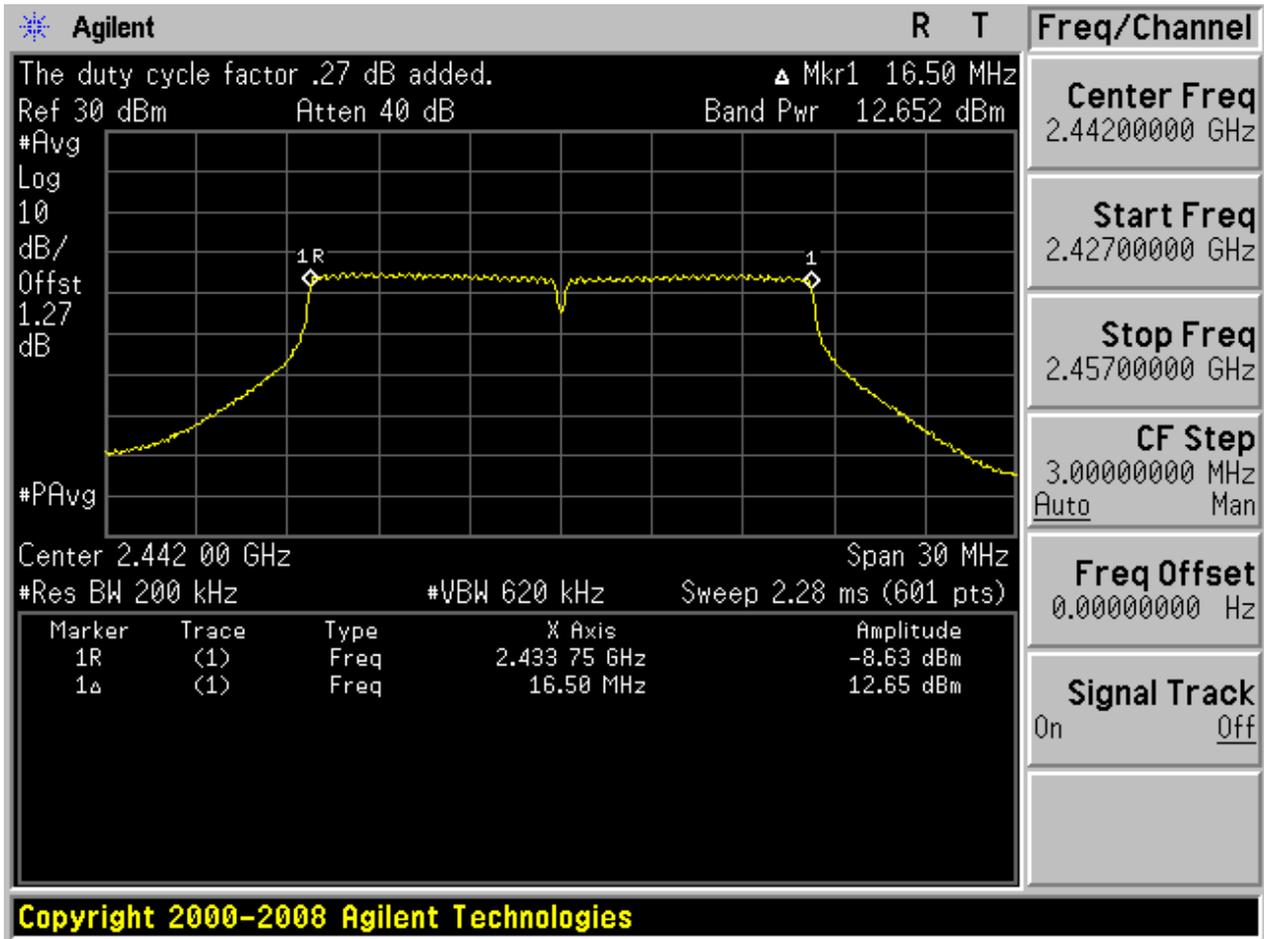
2.9 11G\_M@Ant 2



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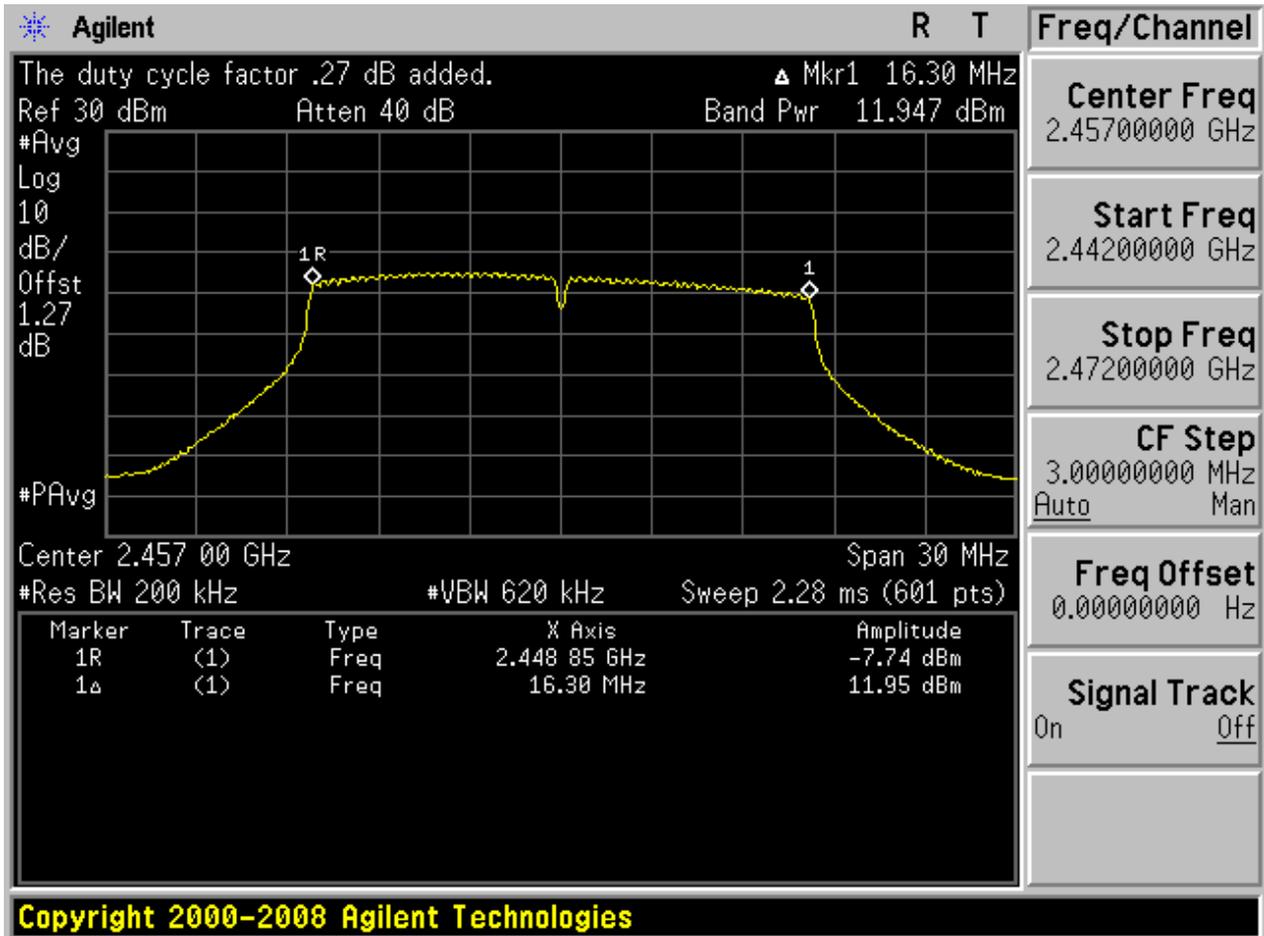


2.10 11G\_M@Ant 1



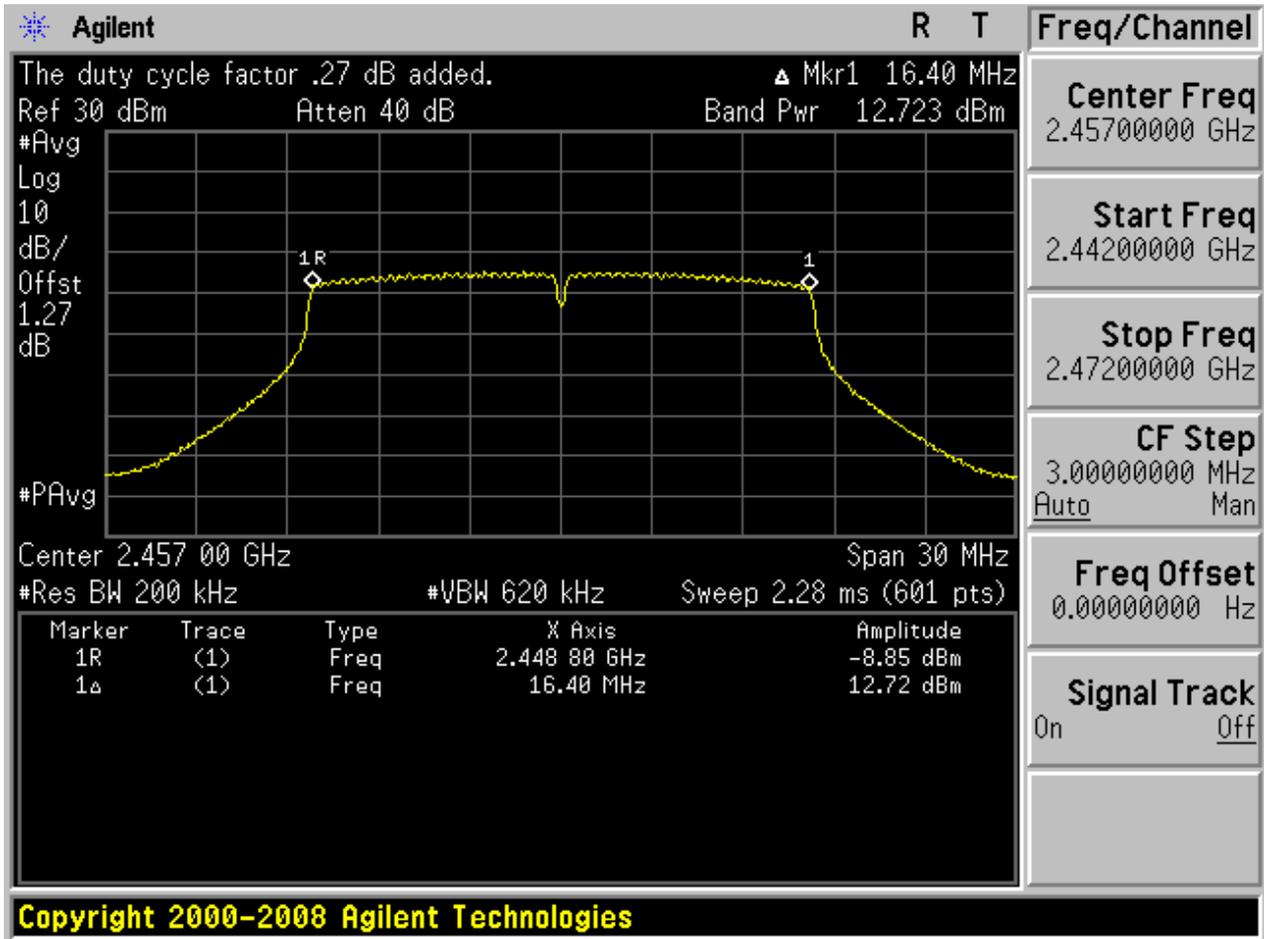
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2.11 11G\_H@Ant 2





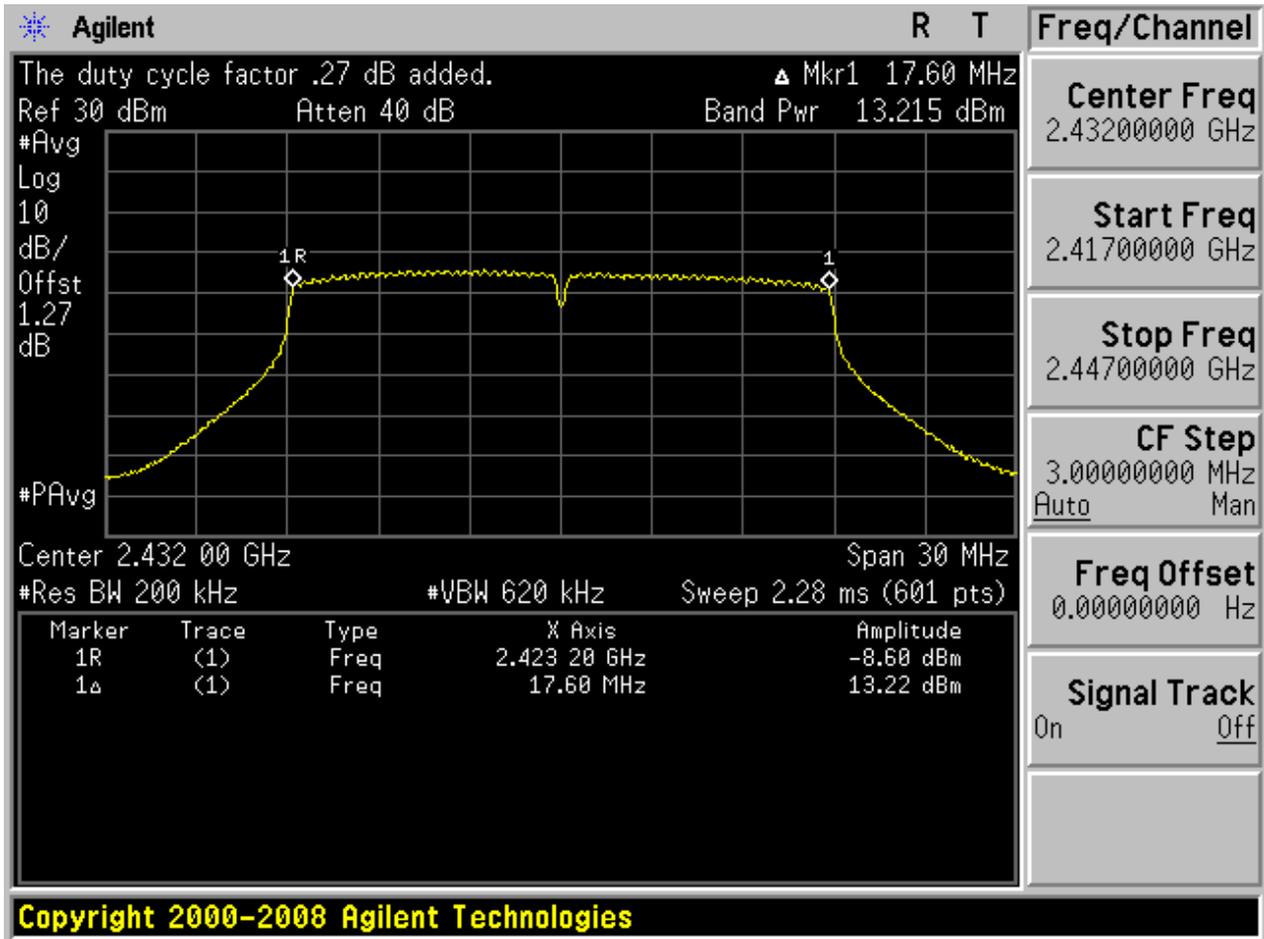
2.12 11G\_H@Ant 1



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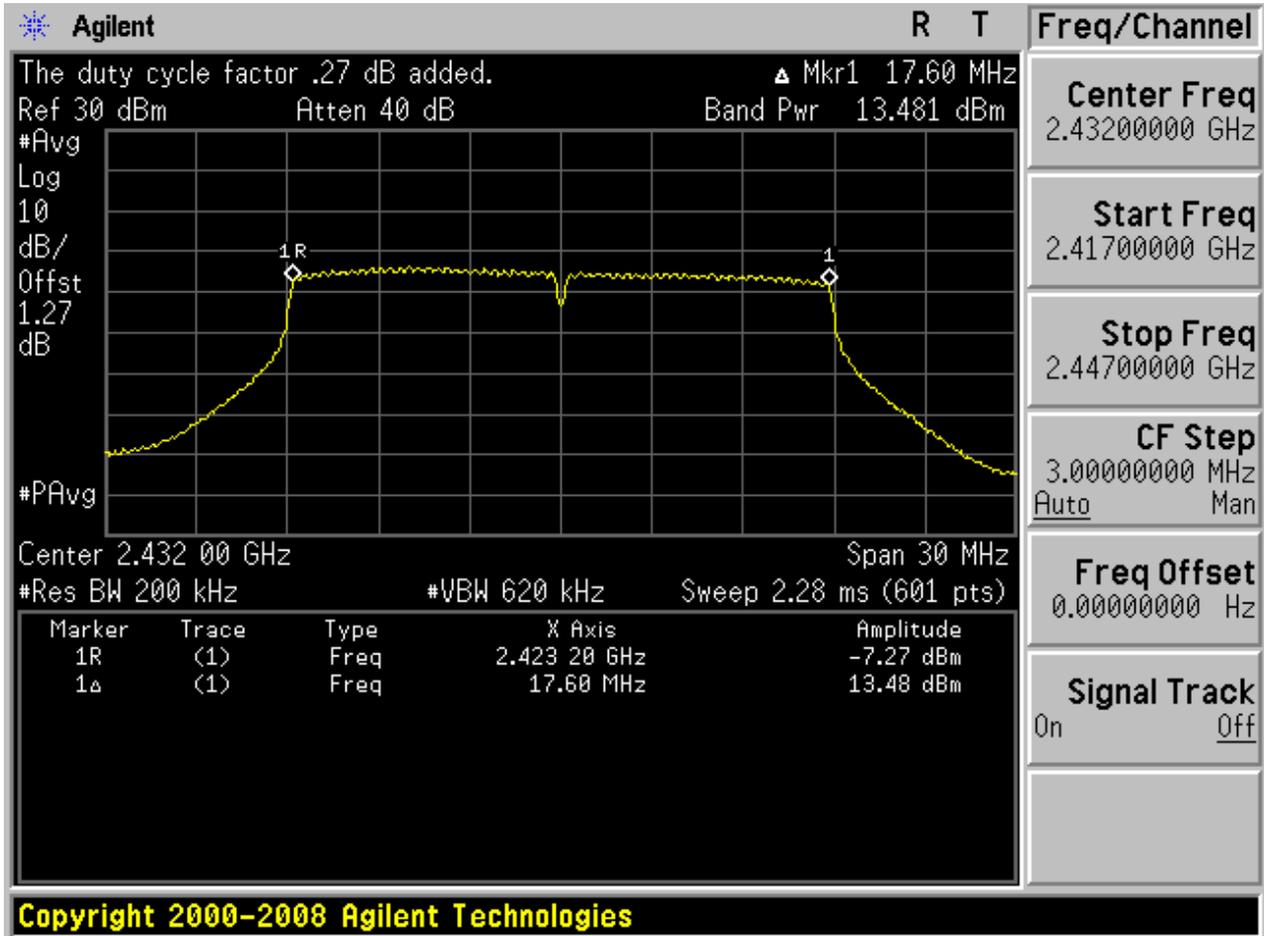


2.13 11N20\_L@Ant 1



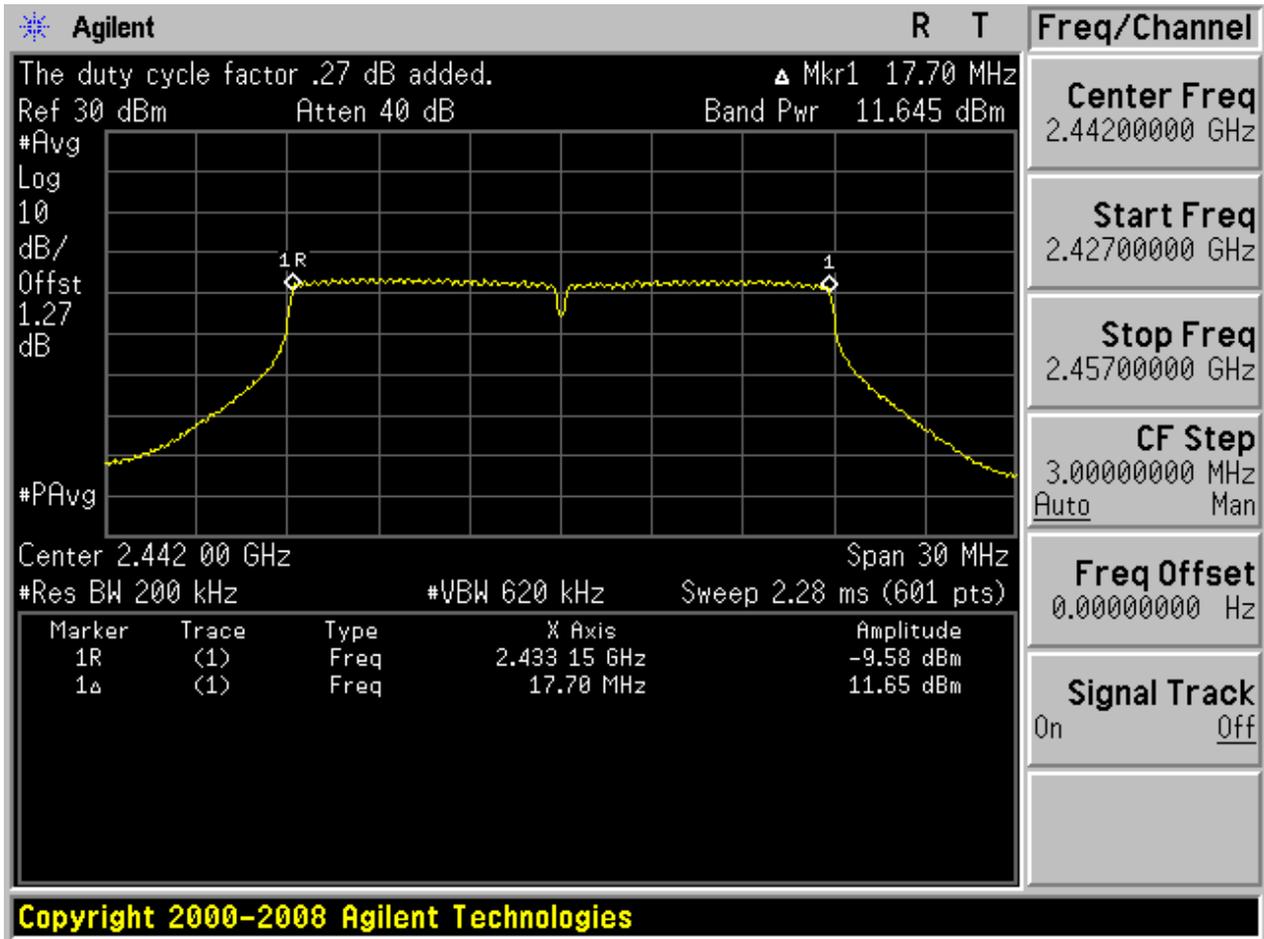
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2.14 11N20\_L@Ant 2



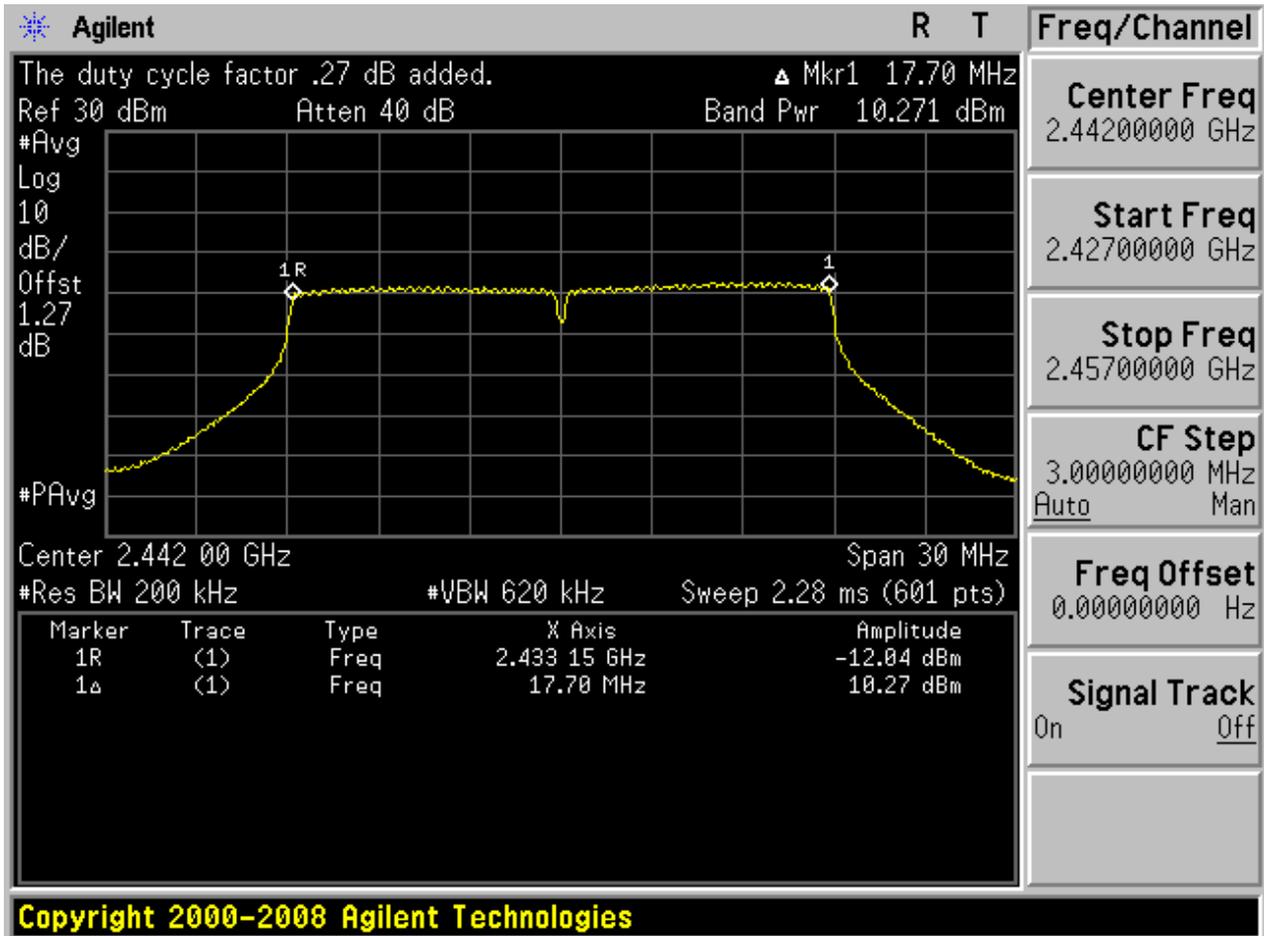


2.15 11N20\_M@Ant 1





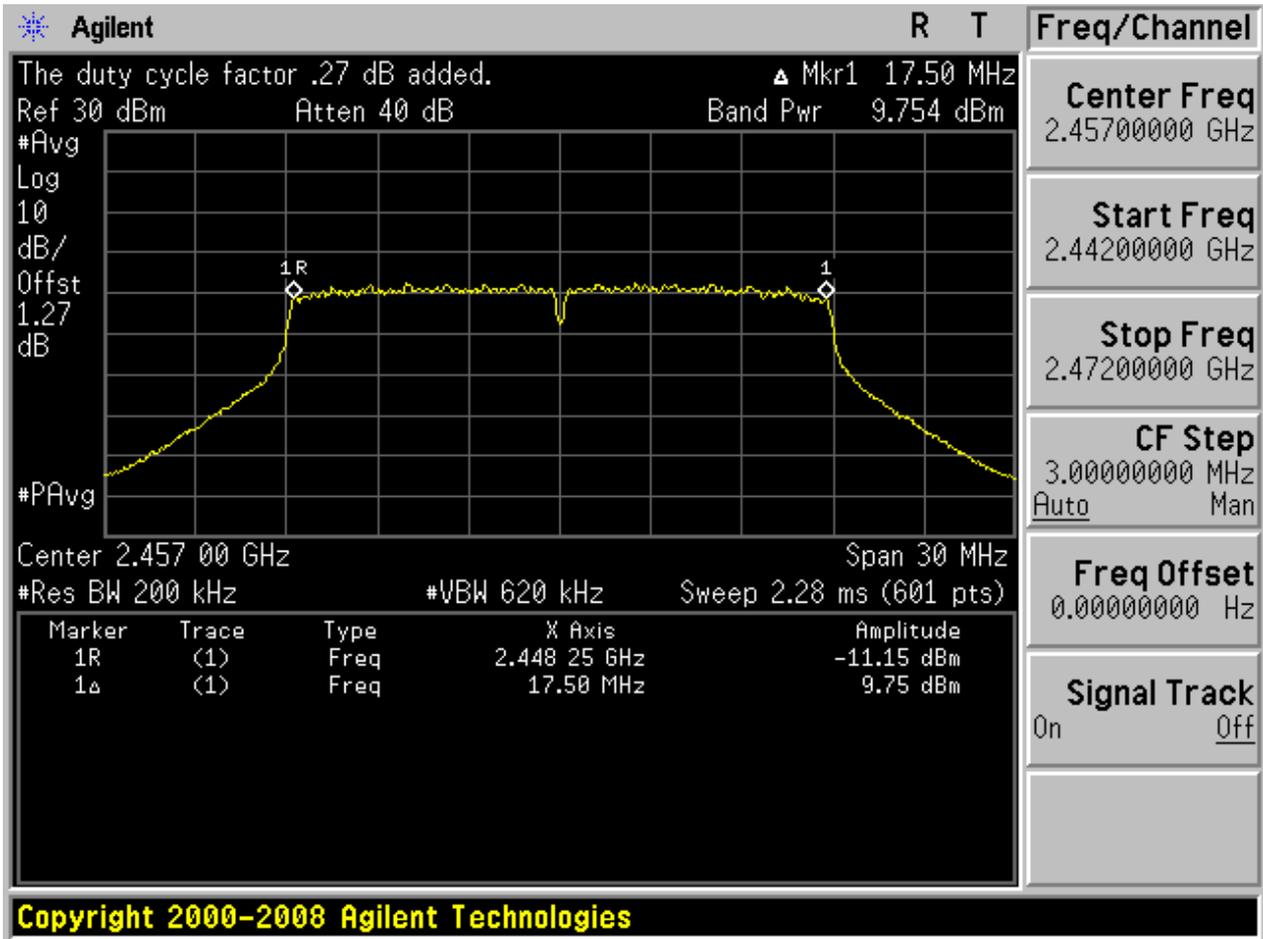
2.16 11N20\_M@Ant 2



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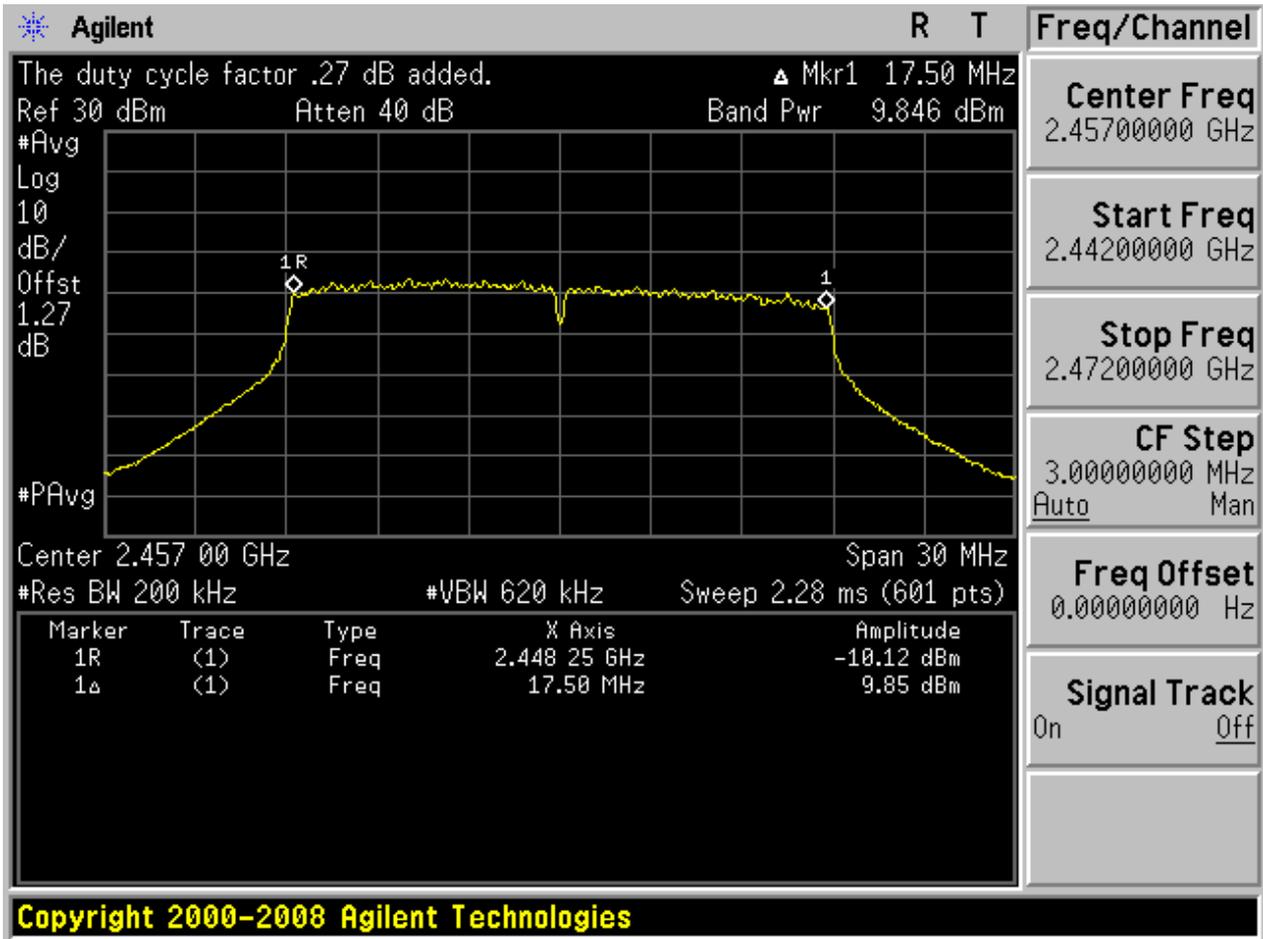


2.17 11N20\_H@Ant 1



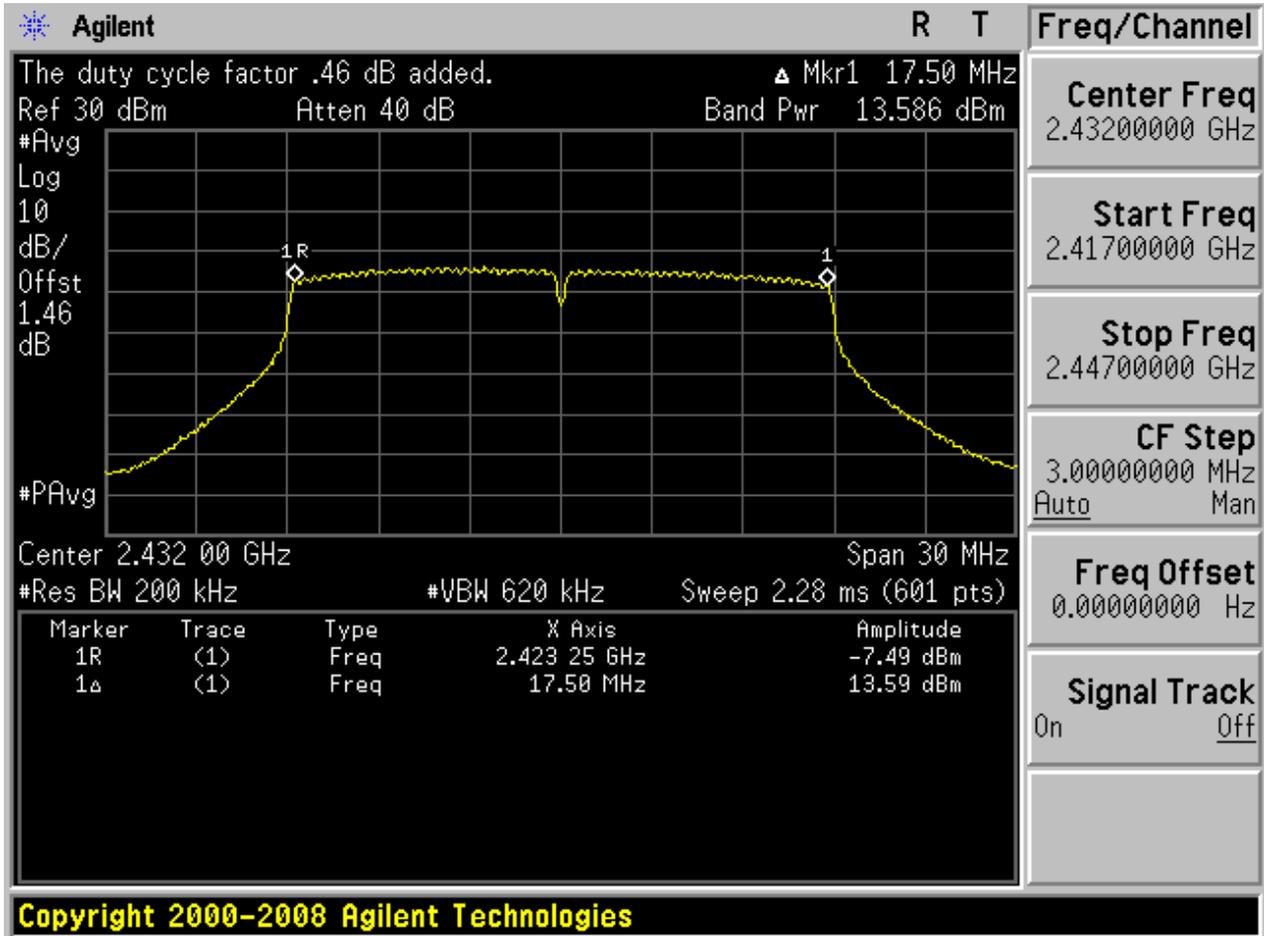


2.18 11N20\_H@Ant 2

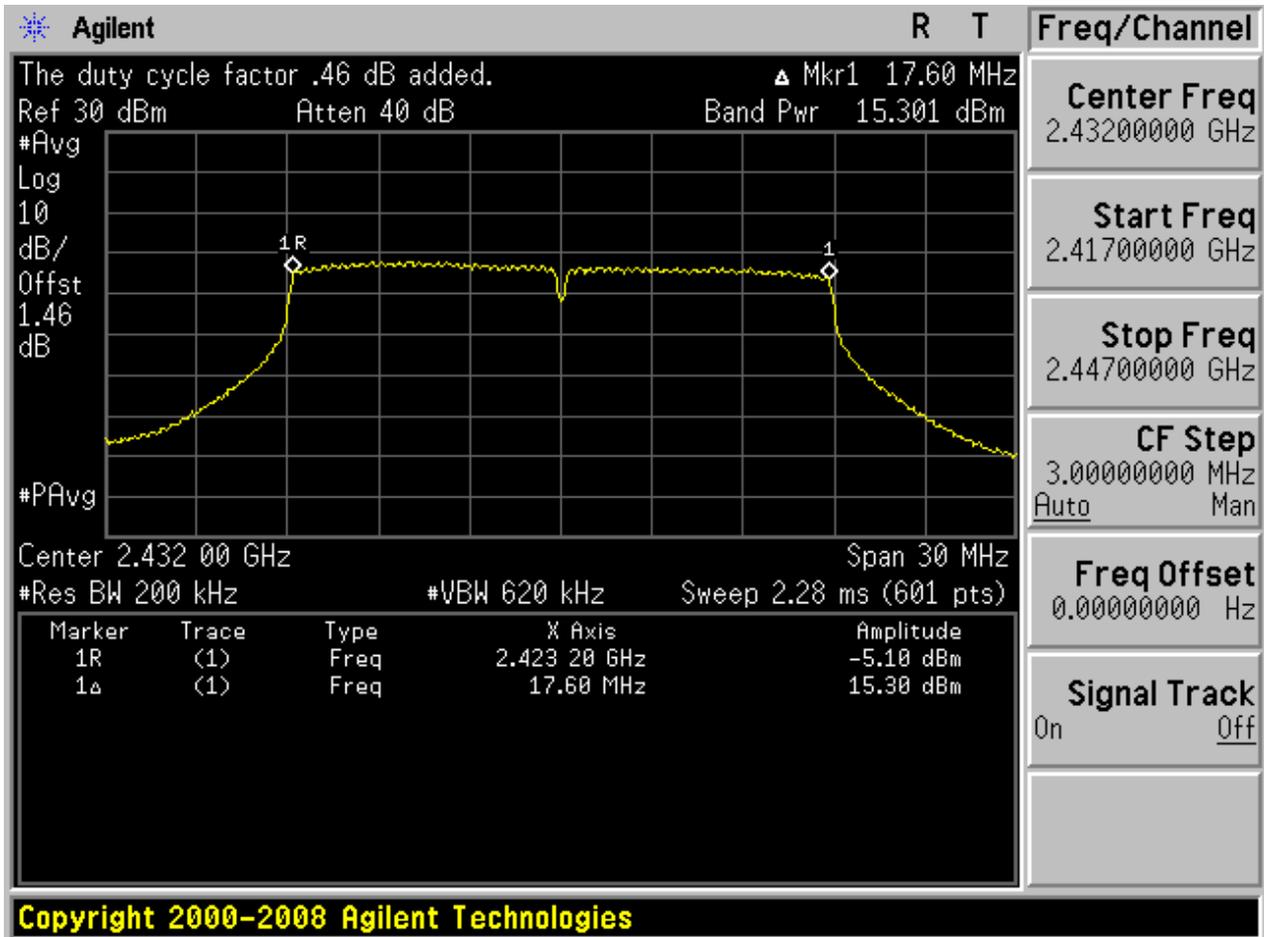


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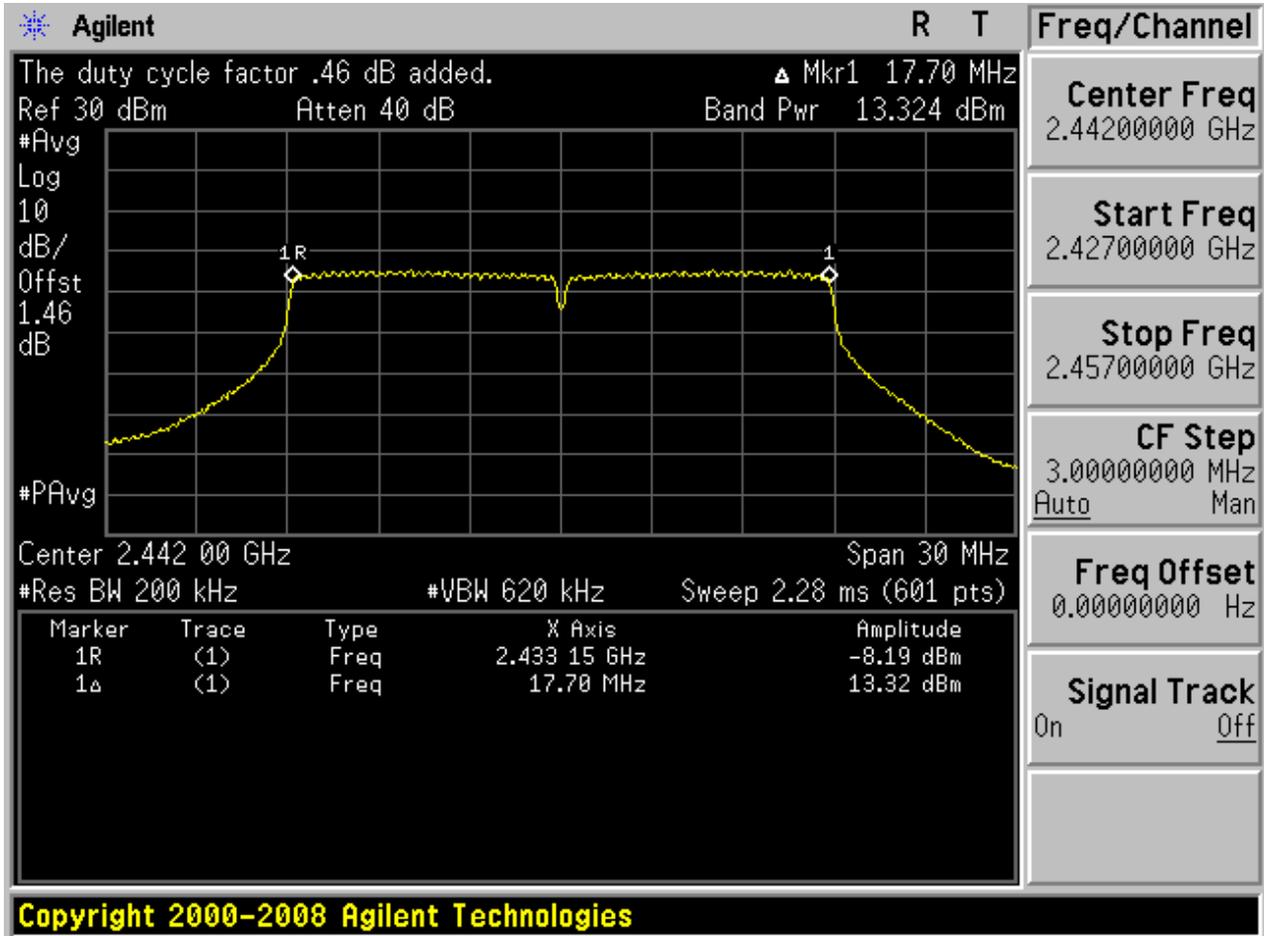
2.19 11N20m\_L@Ant 1



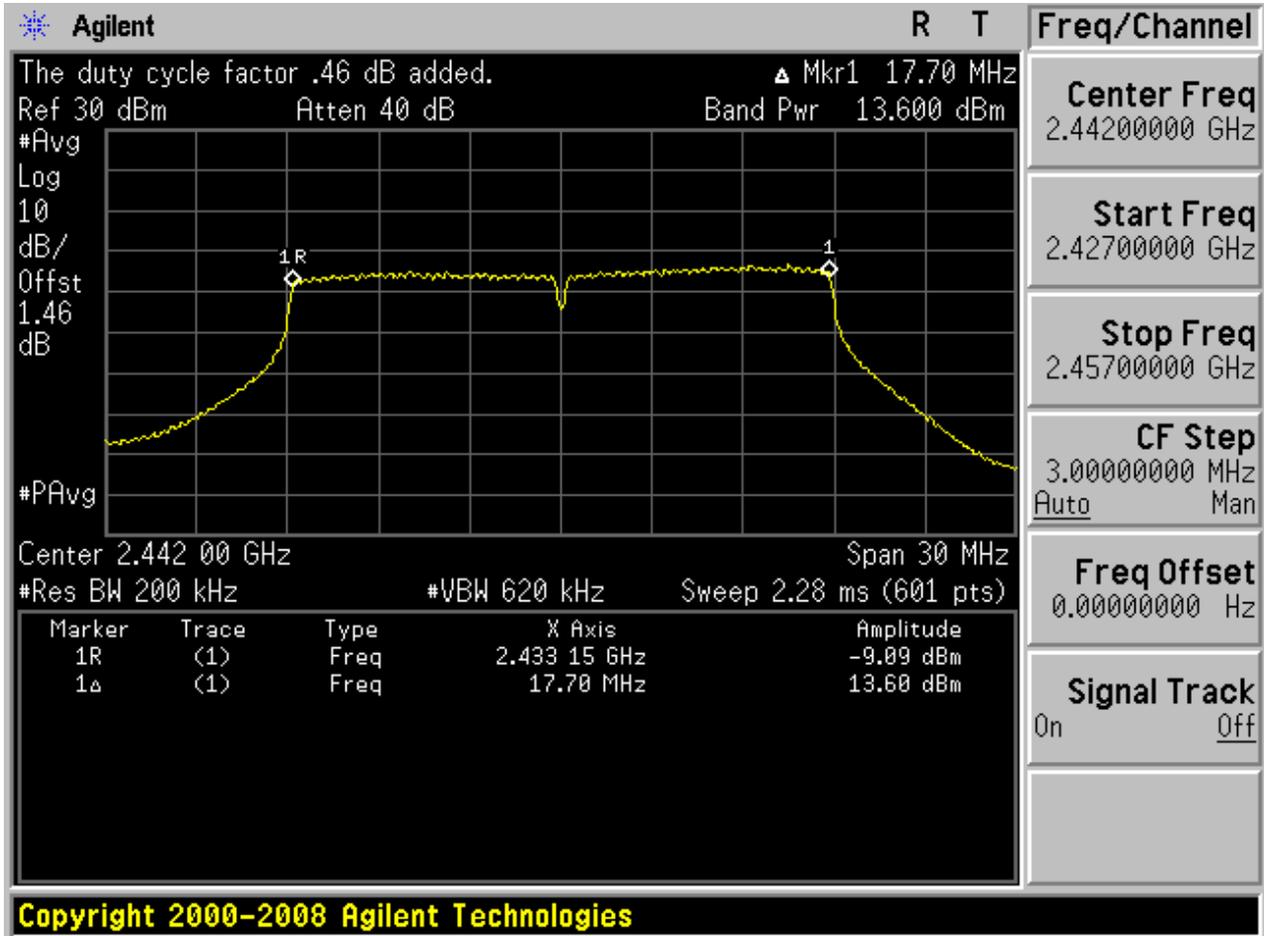
## 2.20 11N20m\_L@Ant 2



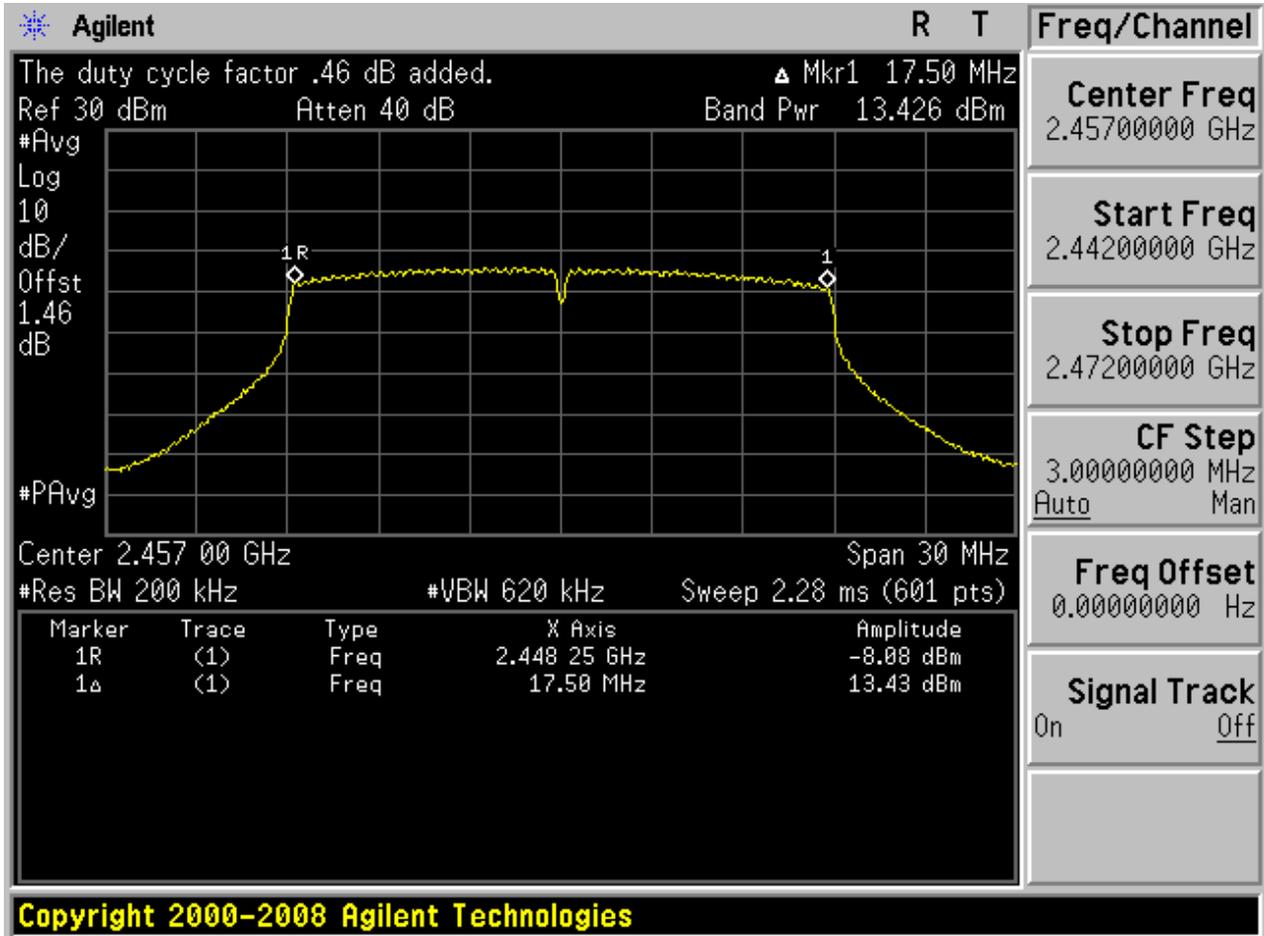
2.21 11N20m\_M@Ant 1



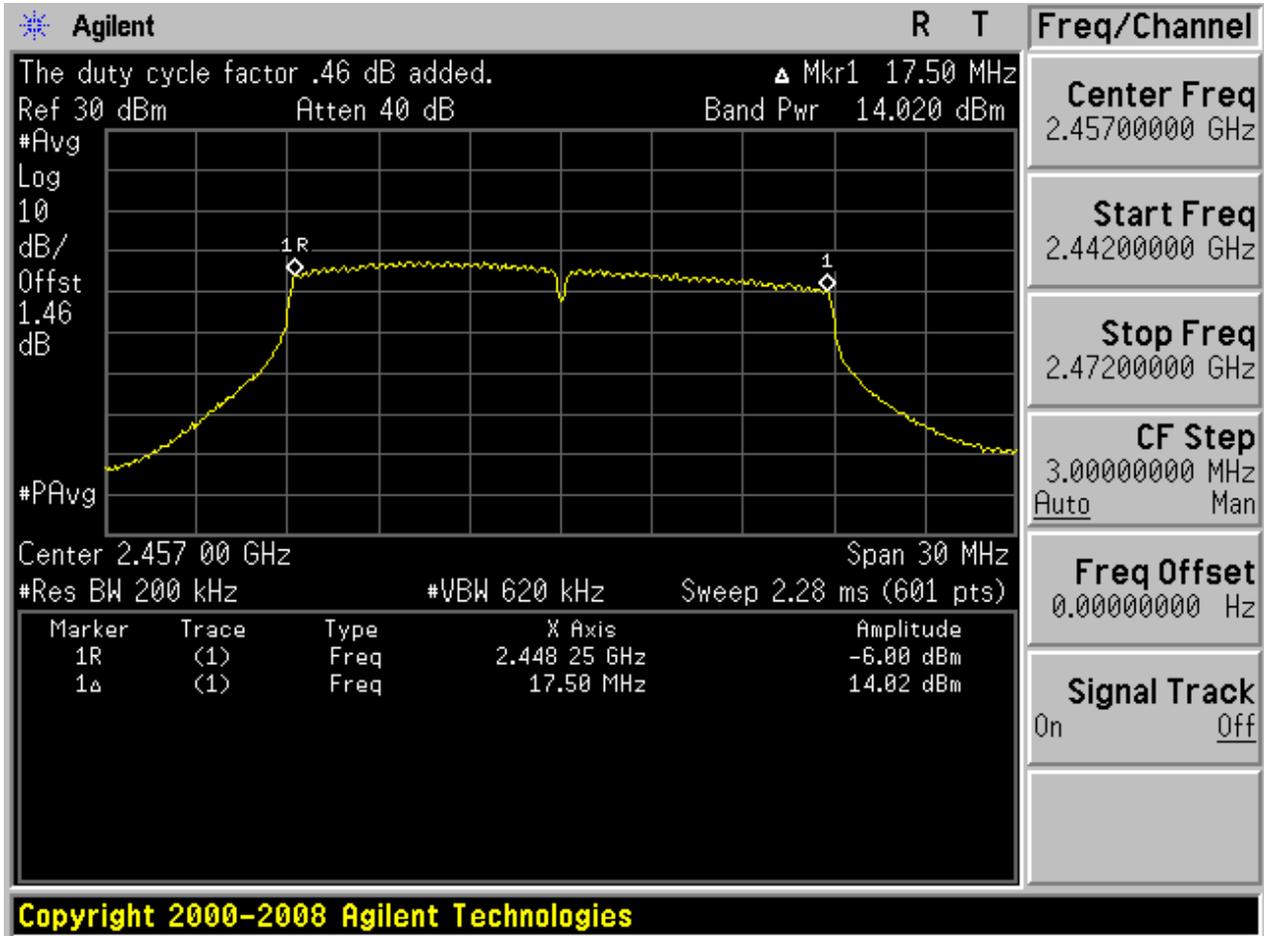
2.22 11N20m\_M@Ant 2



2.23 11N20m\_H@Ant 1

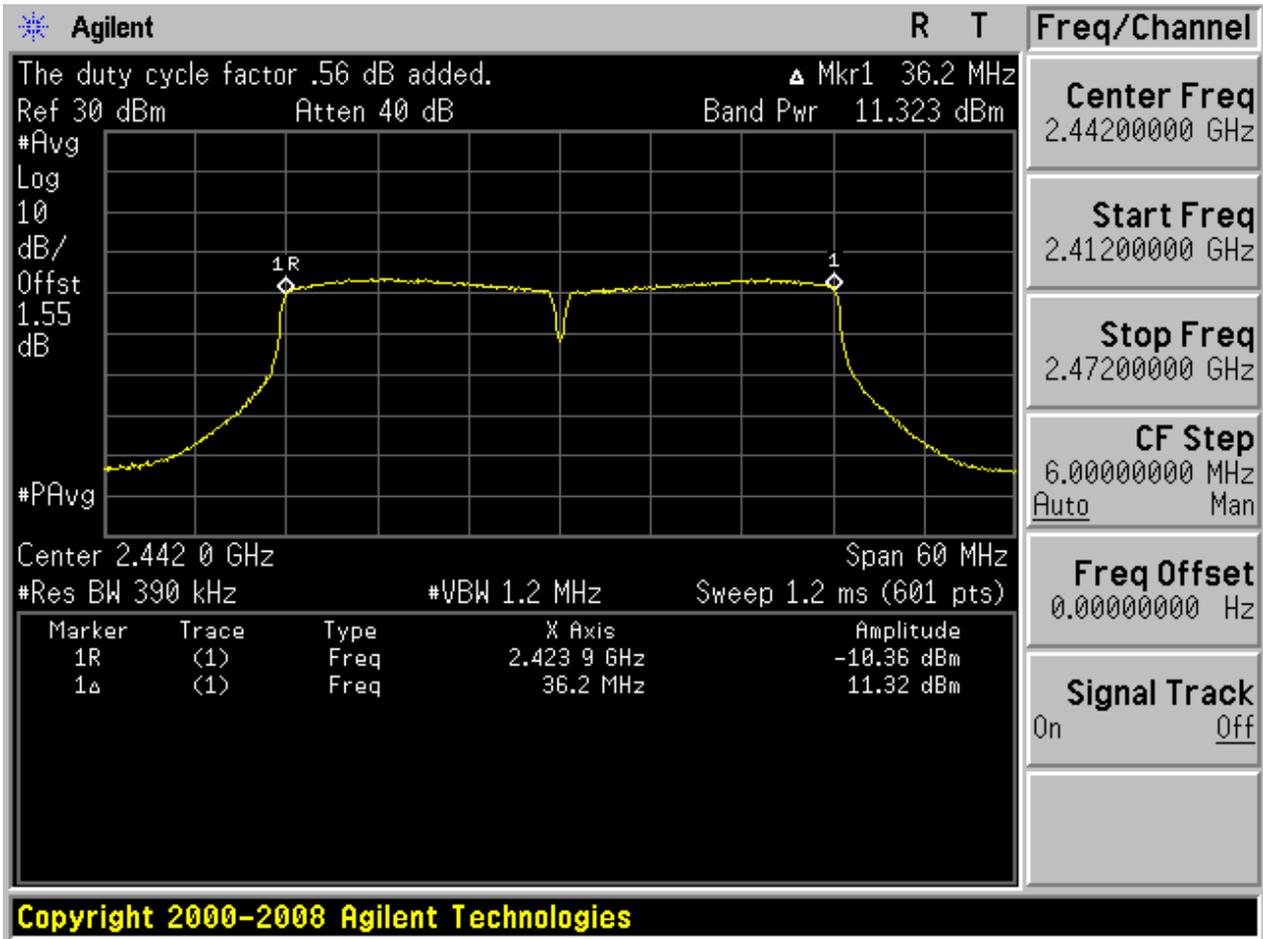


2.24 11N20m\_H@Ant 2



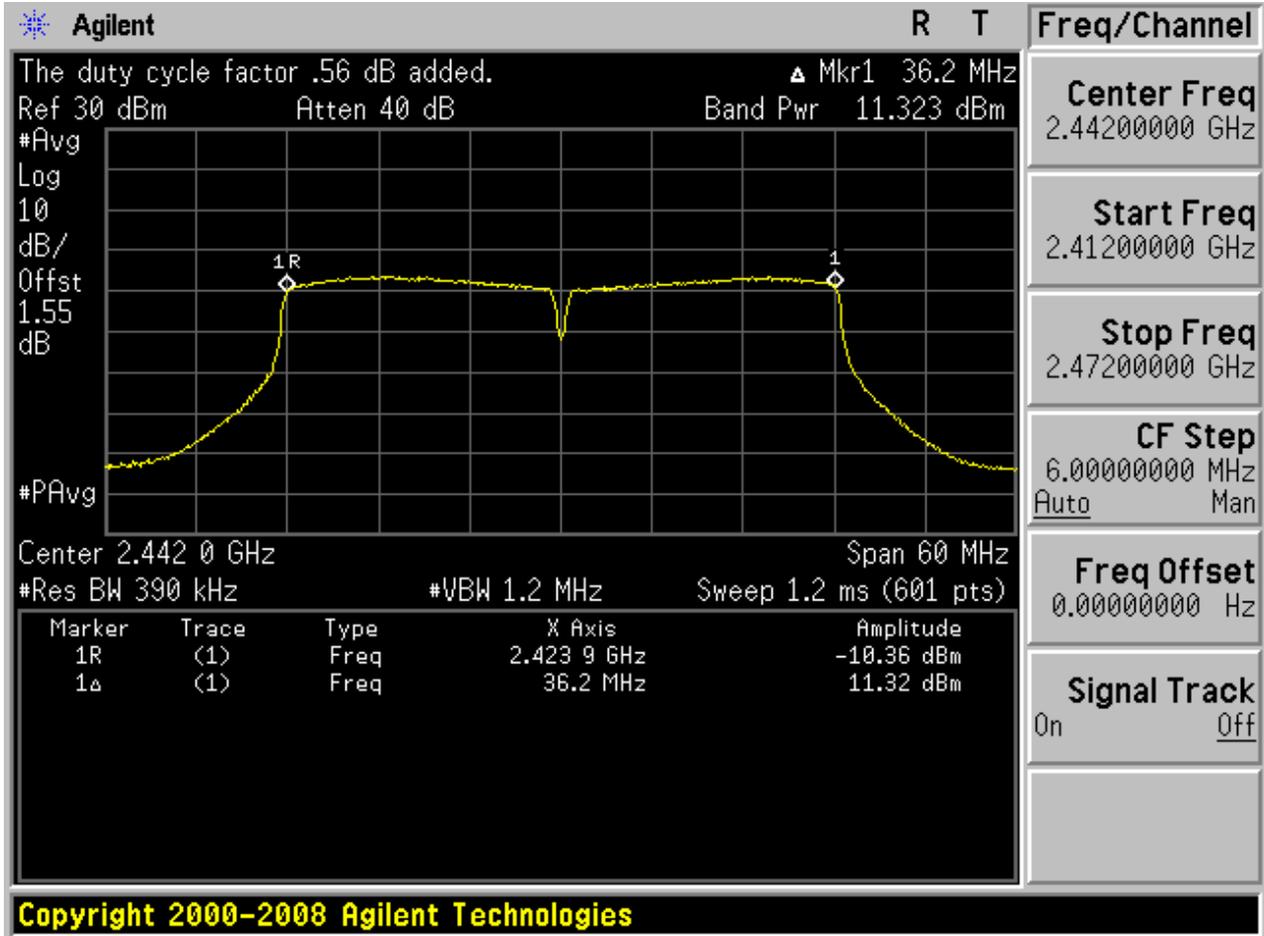


2.19 11N40\_L@Ant 1

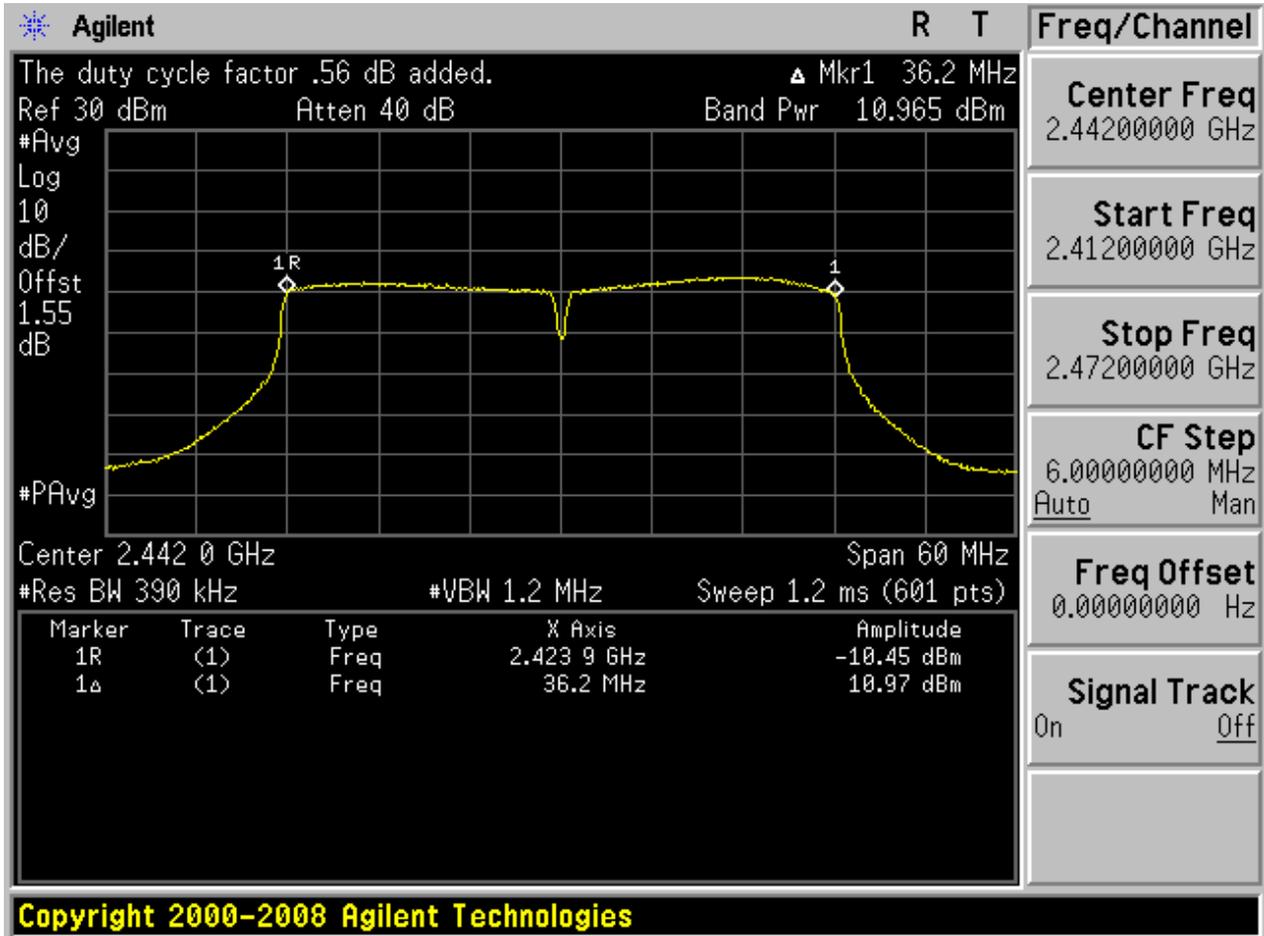


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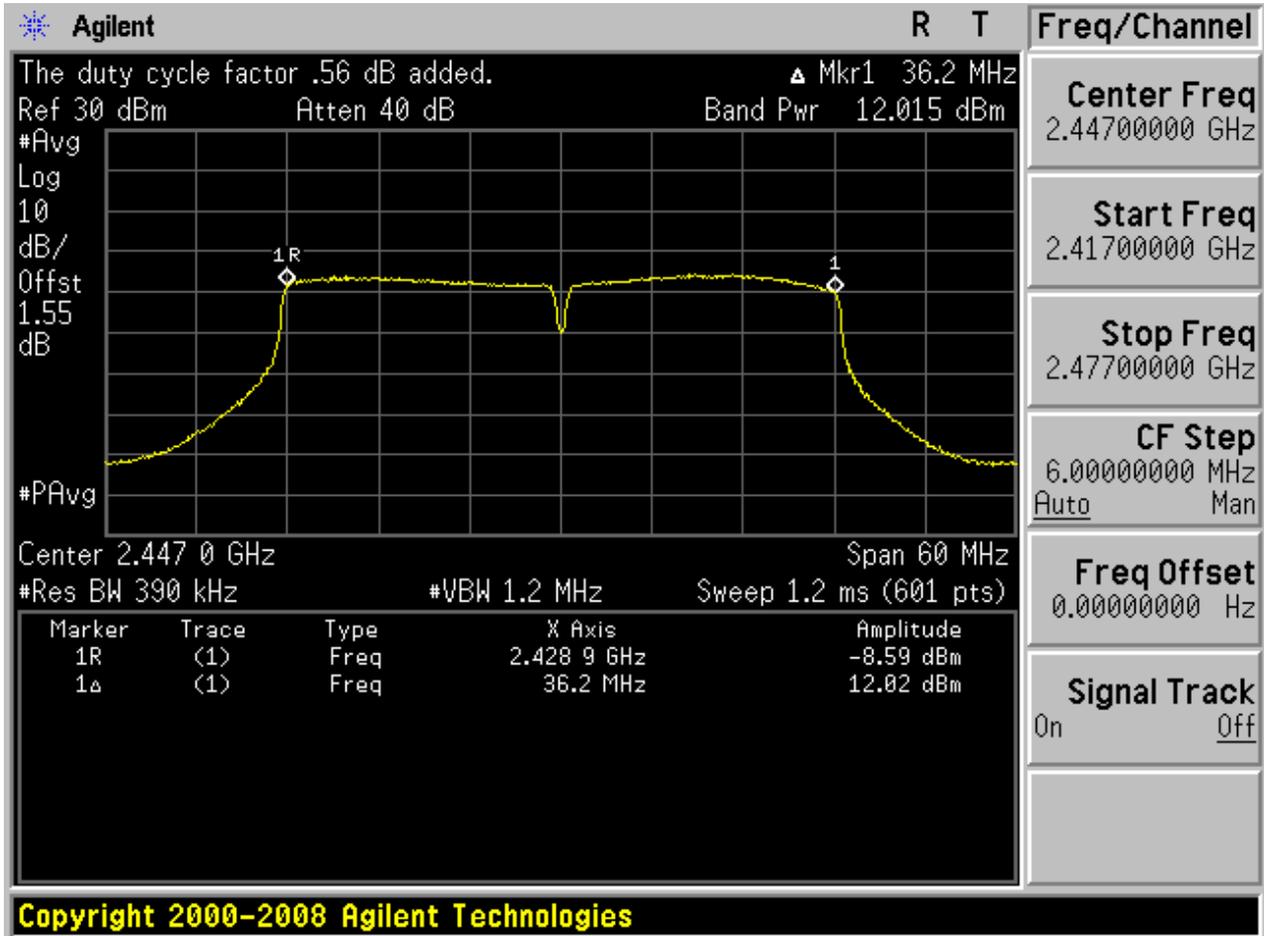
2.25 11N40\_L@Ant 1



2.26 11N40\_L@Ant 2

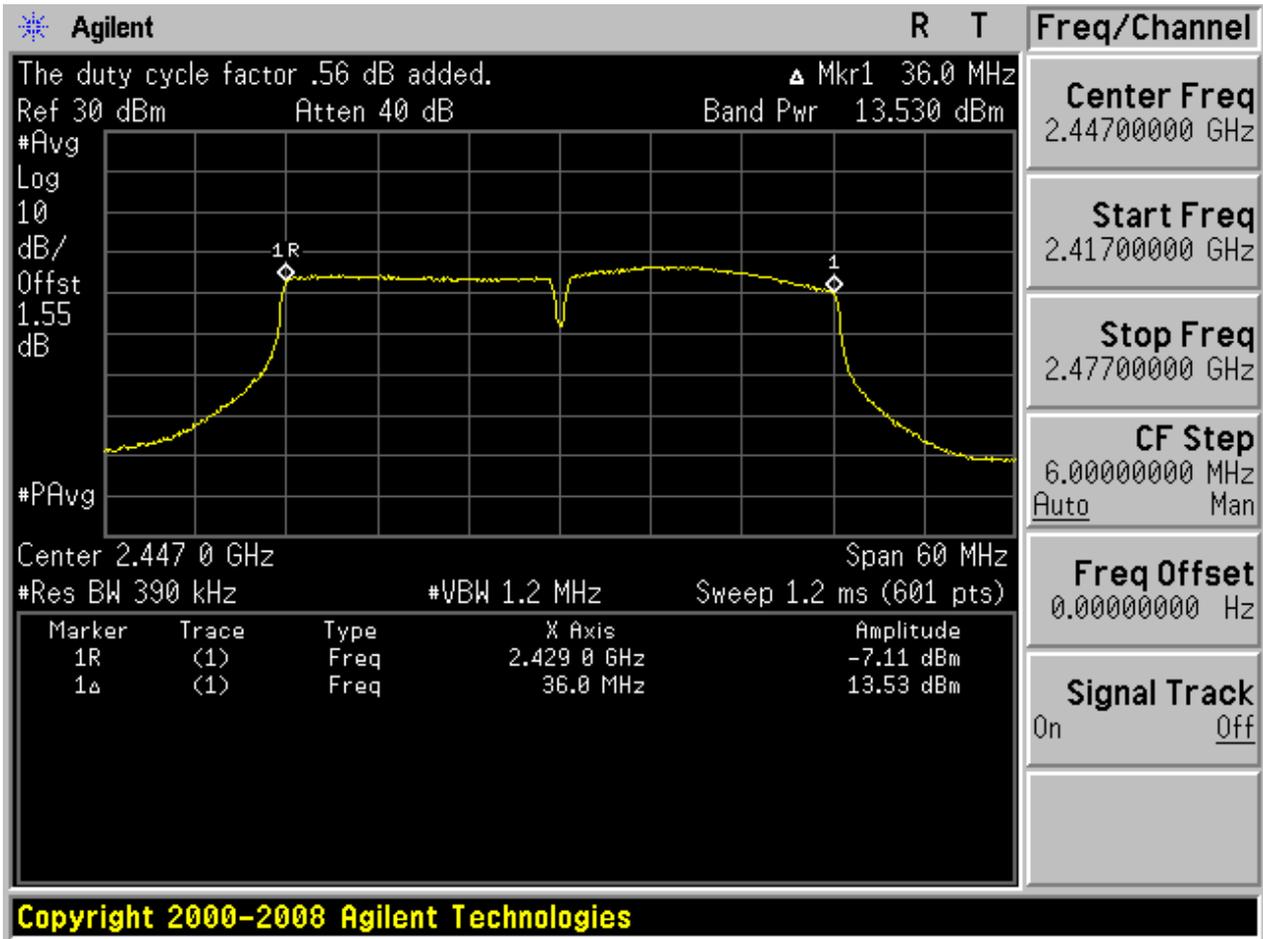


2.27 11N40\_H@Ant 1



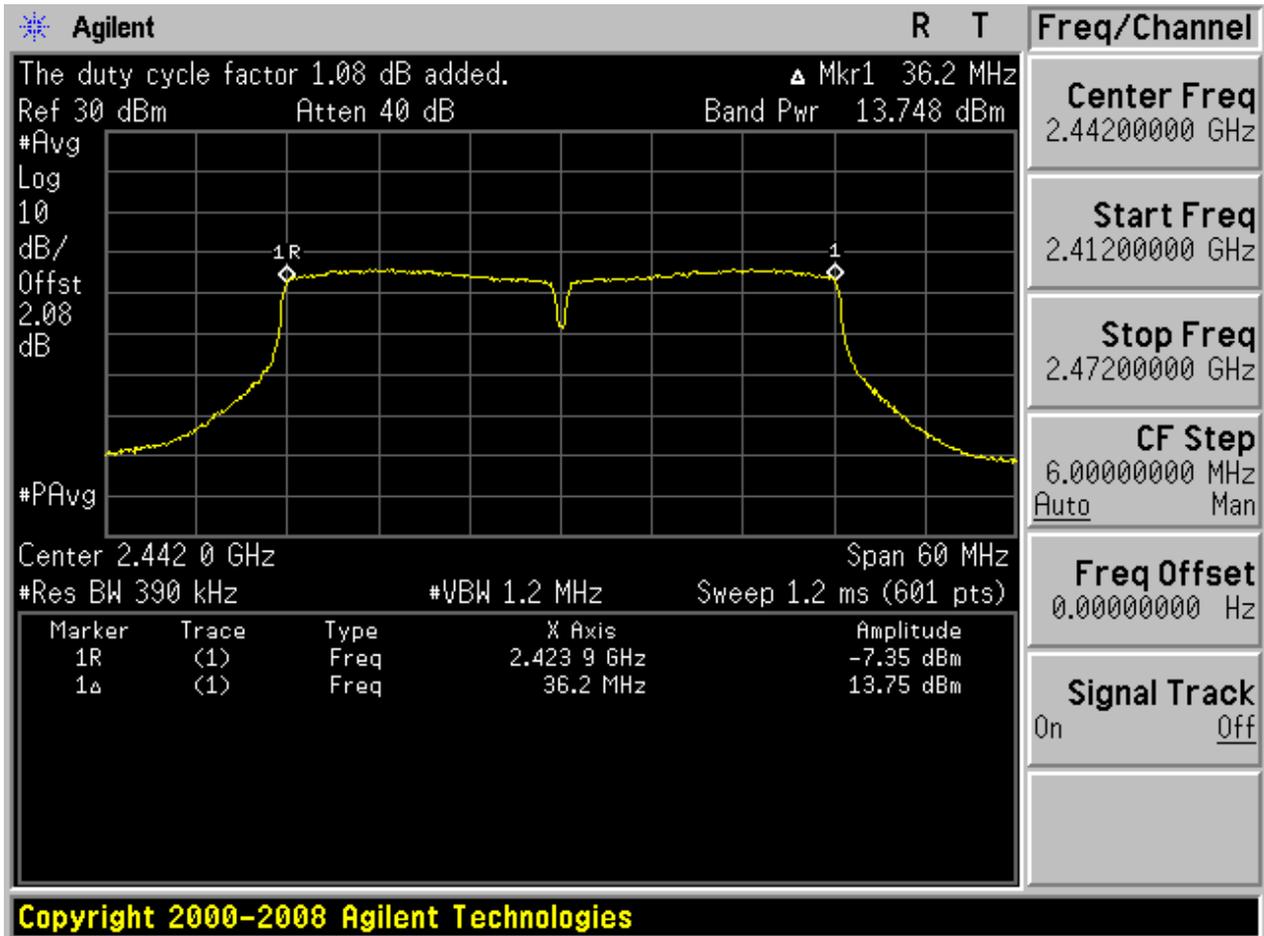


2.28 11N40\_H@Ant 2





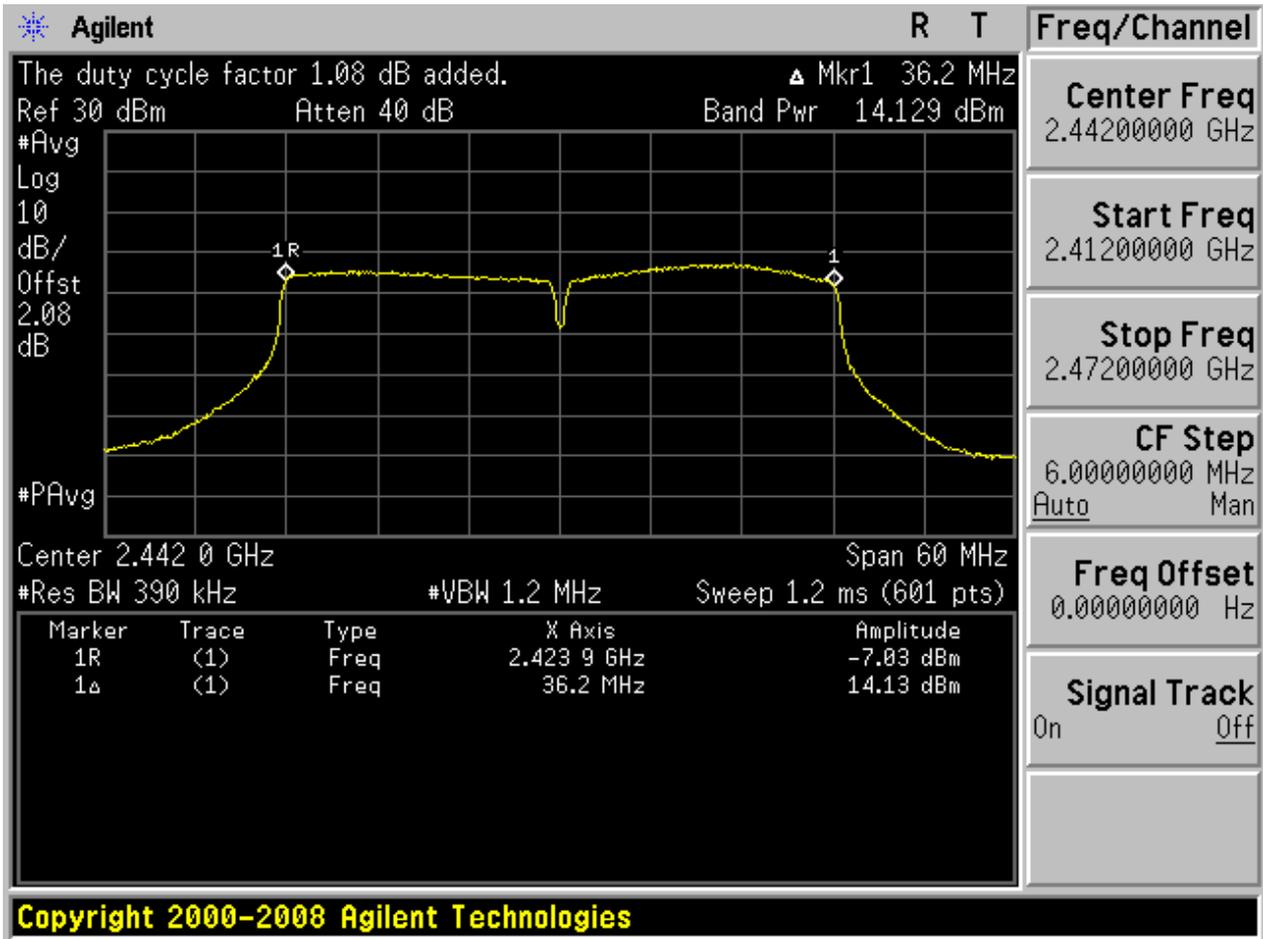
2.29 11N40m\_L@Ant 1



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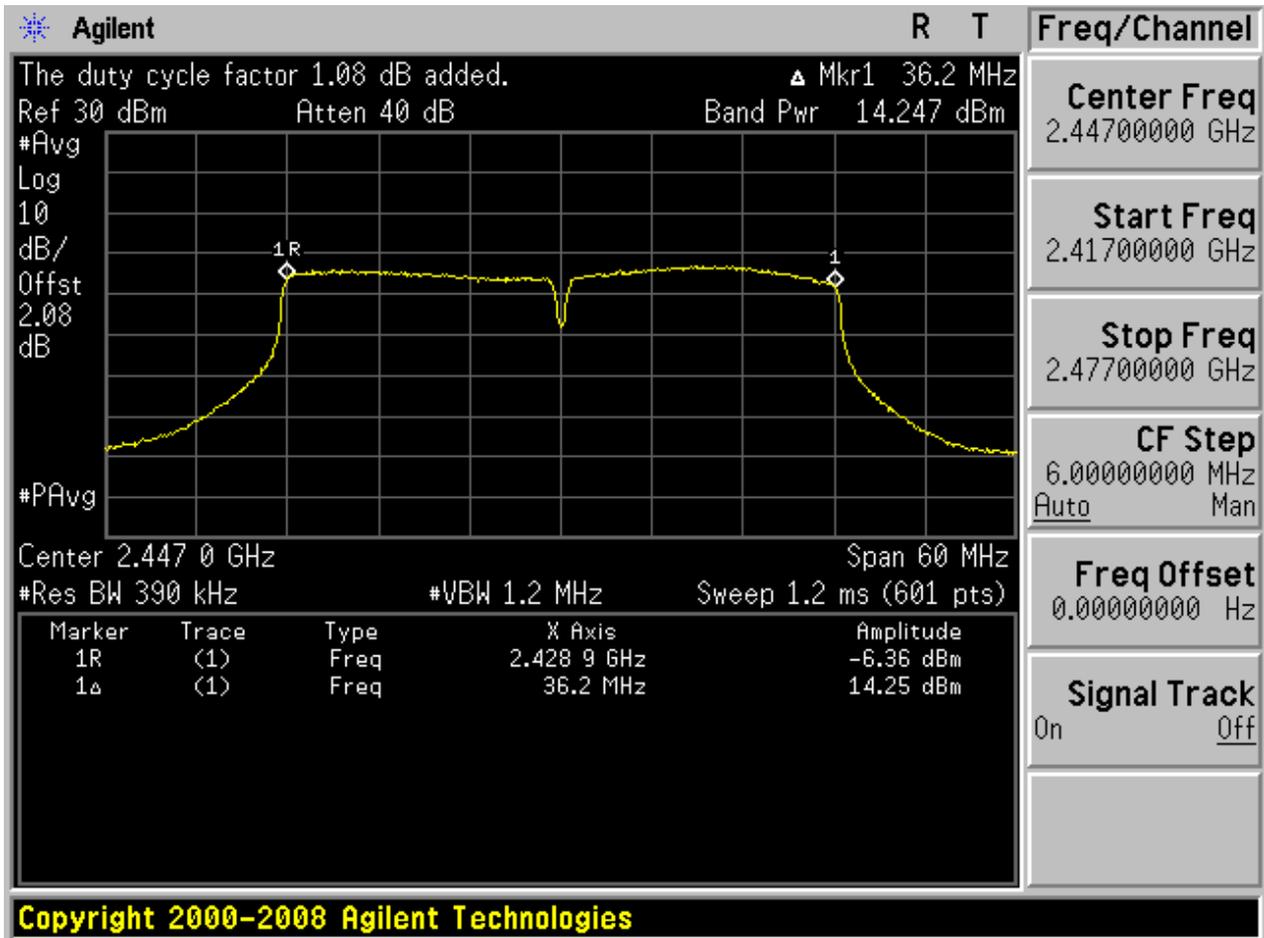


2.3011N40m\_L@Ant 2

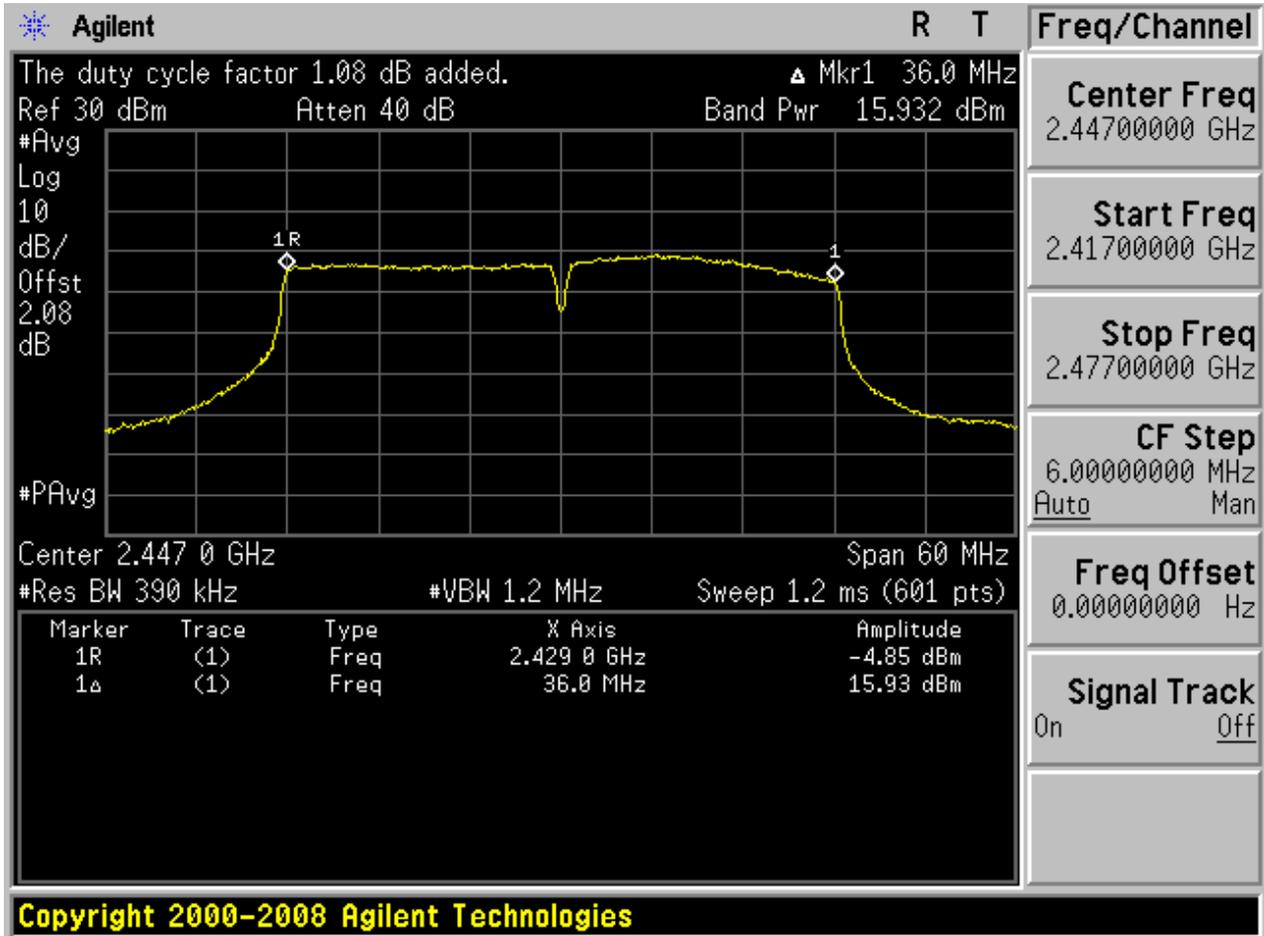


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2.31 11N40m\_H@Ant 1



2.32 11N40m\_H@Ant 2





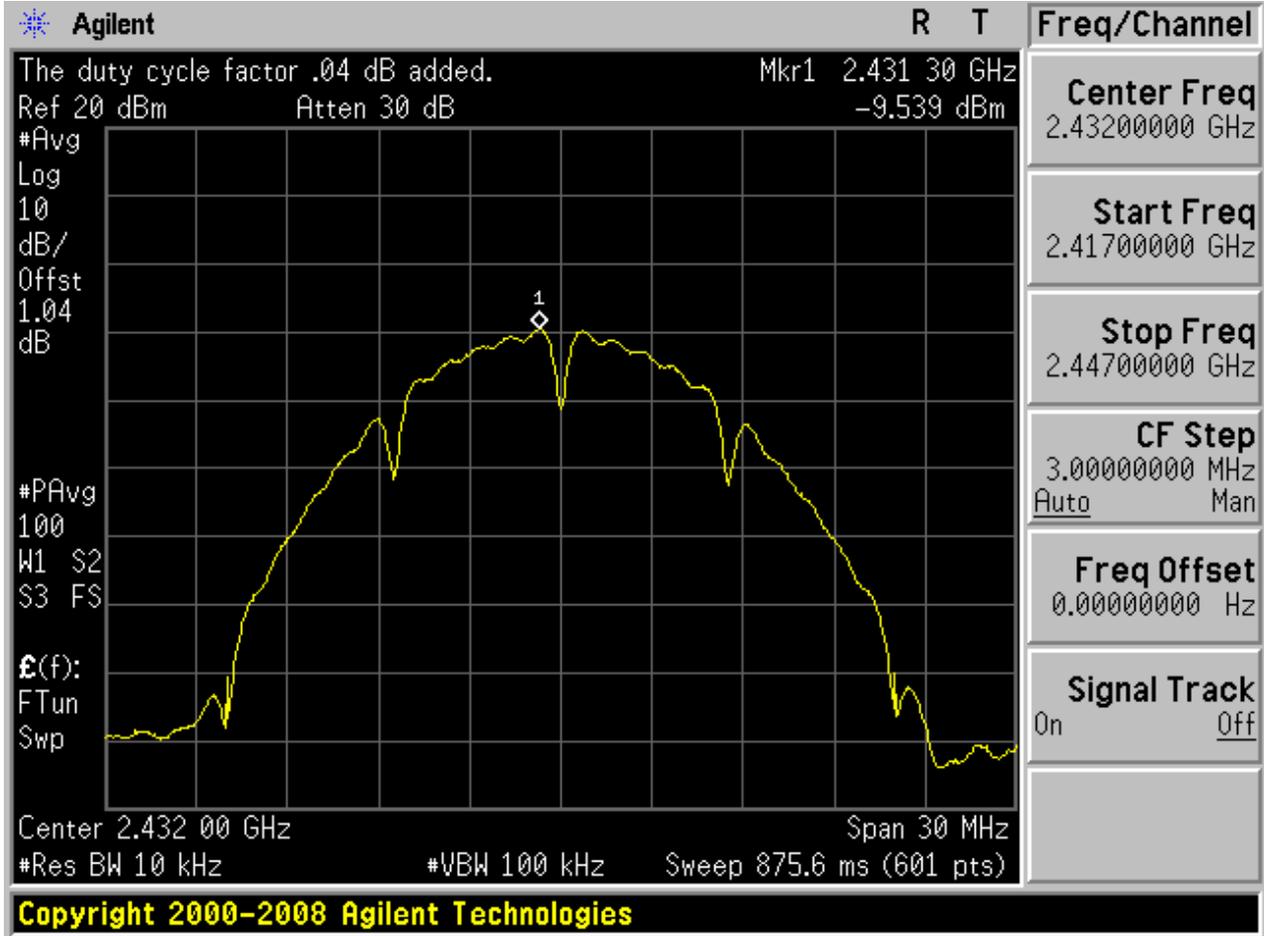
## Appendix D: Maximum Power Spectral Density Level

### Part I - Test Results

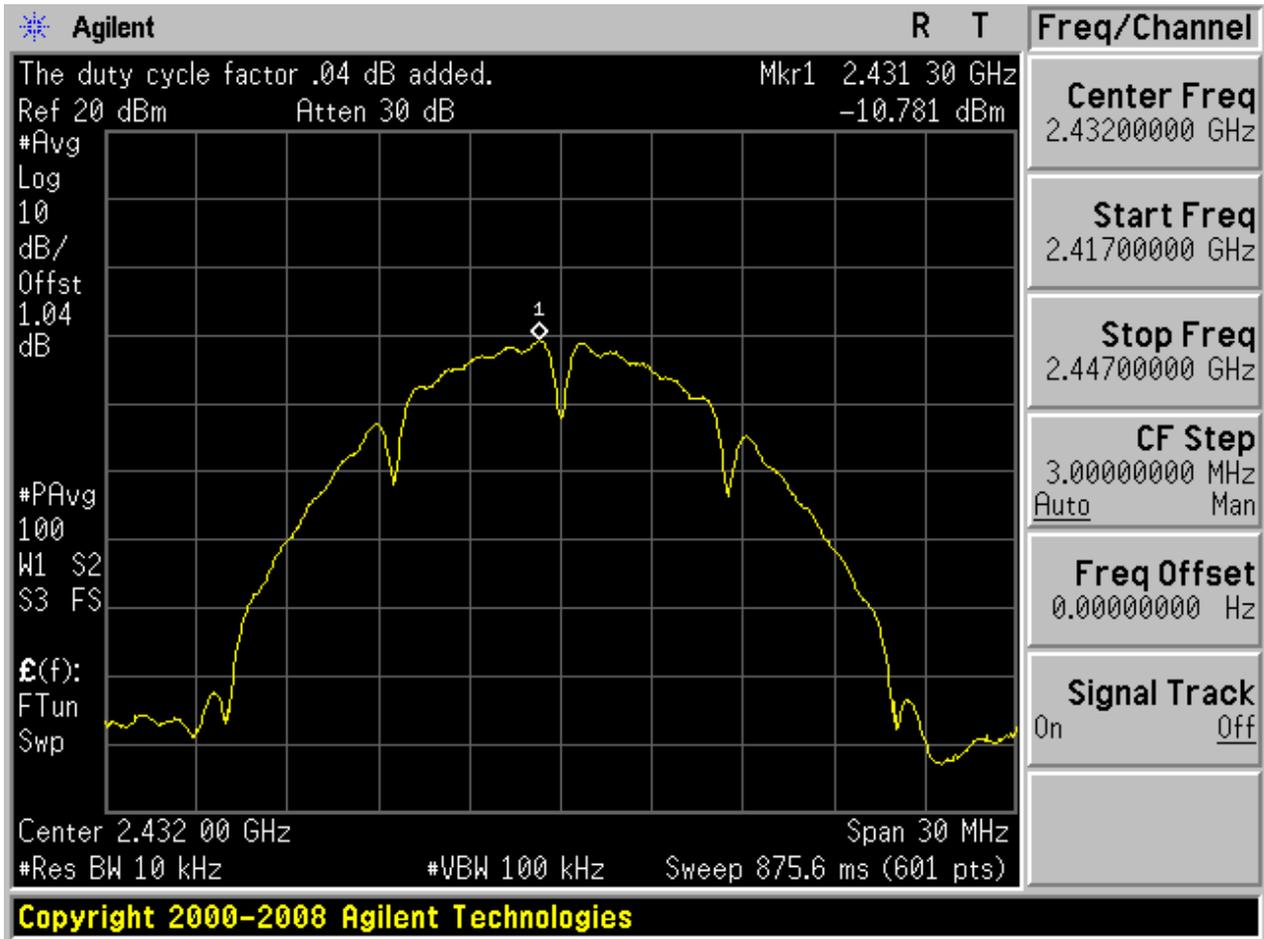
Test Mode	Test Channel	Frequency[MHz]	Ant	PD[MHz]	Verdict
11B	L	2432	Ant 1	-9.54	pass
11B	L	2432	Ant 2	-10.78	pass
11B	M	2442	Ant 1	-10.28	pass
11B	M	2442	Ant 2	-11.14	pass
11B	H	2457	Ant 1	-10.10	pass
11B	H	2457	Ant 2	-10.19	pass
11G	L	2432	Ant 2	-14.80	pass
11G	L	2432	Ant 1	-14.91	pass
11G	M	2442	Ant 2	-17.77	pass
11G	M	2442	Ant 1	-16.81	pass
11G	H	2457	Ant 2	-16.81	pass
11G	H	2457	Ant 1	-16.86	pass
11N20	L	2432	Ant 1	-16.32	pass
11N20	L	2432	Ant 2	-15.90	pass
11N20	M	2442	Ant 1	-18.26	pass
11N20	M	2442	Ant 2	-19.19	pass
11N20	H	2457	Ant 1	-18.53	pass
11N20	H	2457	Ant 2	-17.61	pass
11N20m	L	2432	Ant 1	-16.03	pass
11N20m	L	2432	Ant 2	-13.57	pass
11N20m	M	2442	Ant 1	-16.52	pass
11N20m	M	2442	Ant 2	-15.16	pass
11N20m	H	2457	Ant 1	-15.81	pass
11N20m	H	2457	Ant 2	-14.41	pass
11N40	L	2442	Ant 1	-21.15	pass
11N40	L	2442	Ant 2	-20.81	pass
11N40	H	2447	Ant 1	-20.05	pass
11N40	H	2447	Ant 2	-18.11	pass
11N40m	L	2442	Ant 1	-18.43	pass
11N40m	L	2442	Ant 2	-17.22	pass
11N40m	H	2447	Ant 1	-18.01	pass
11N40m	H	2447	Ant 2	-19.88	pass

**Part II - Test Plots**

**2.1 11B\_L@Ant 1**

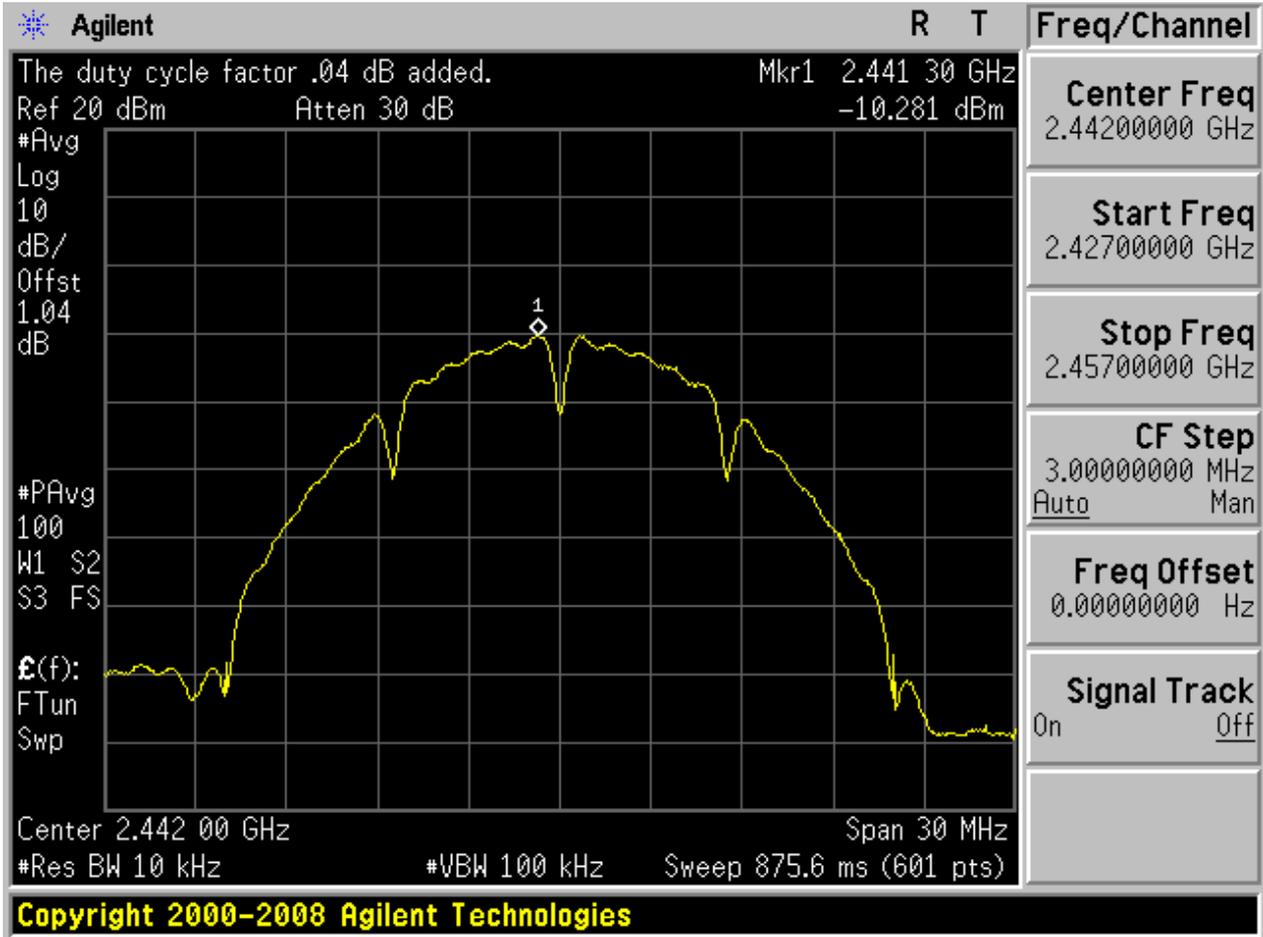


2.2 11B\_L@Ant 2



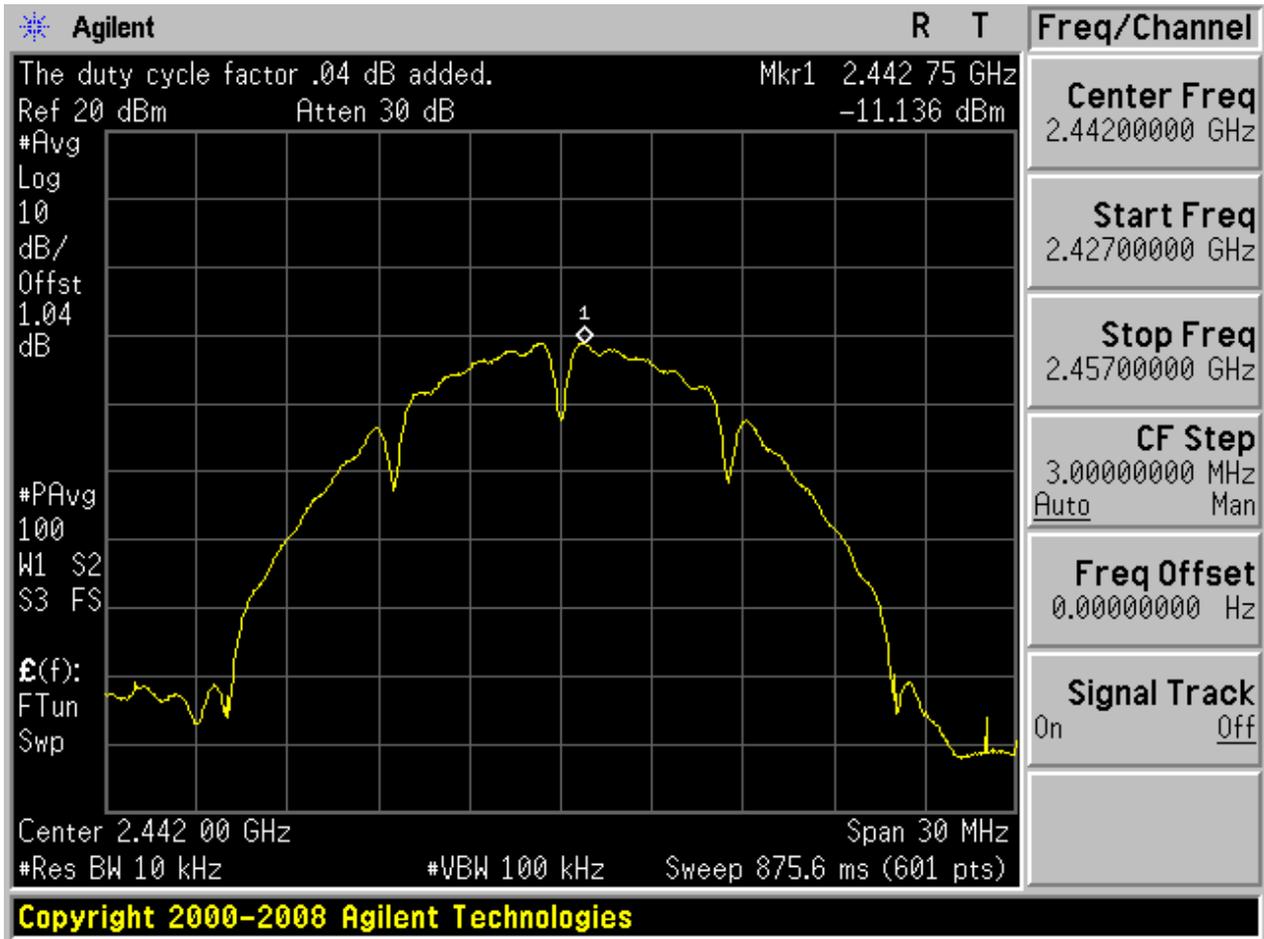


2.3 11B\_M@Ant 1



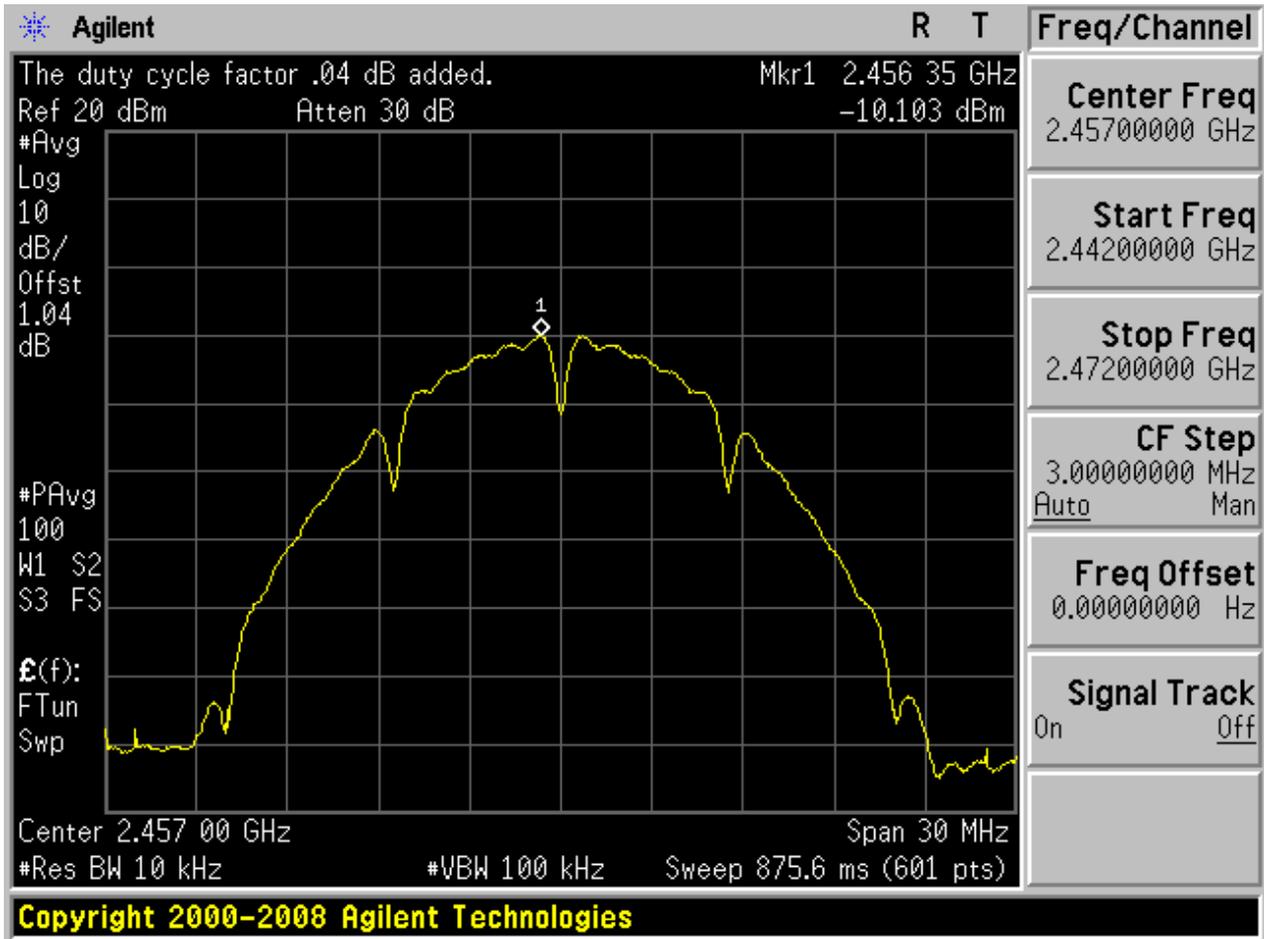


2.4 11B\_M@Ant 2

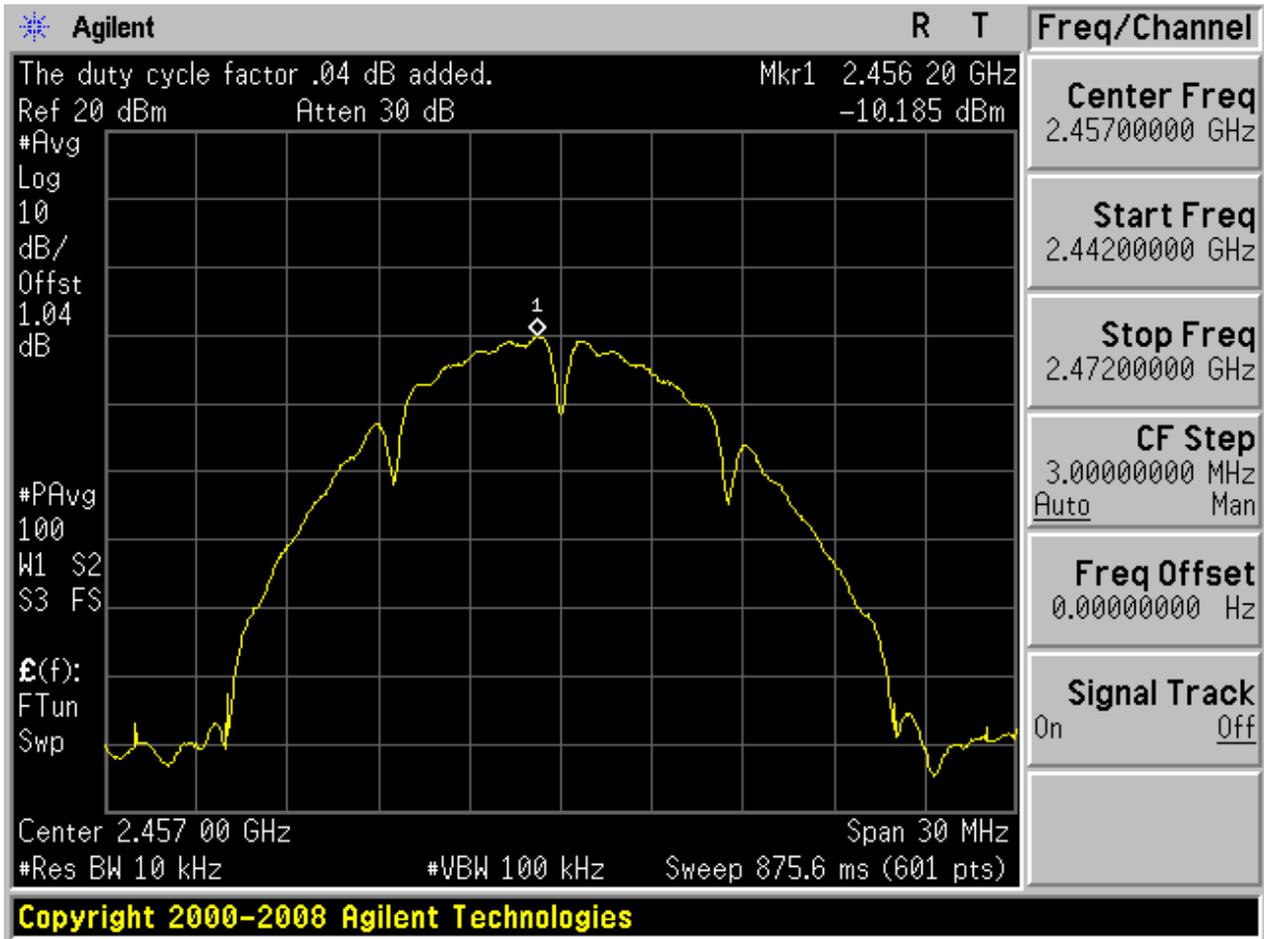




2.5 11B\_H@Ant 1

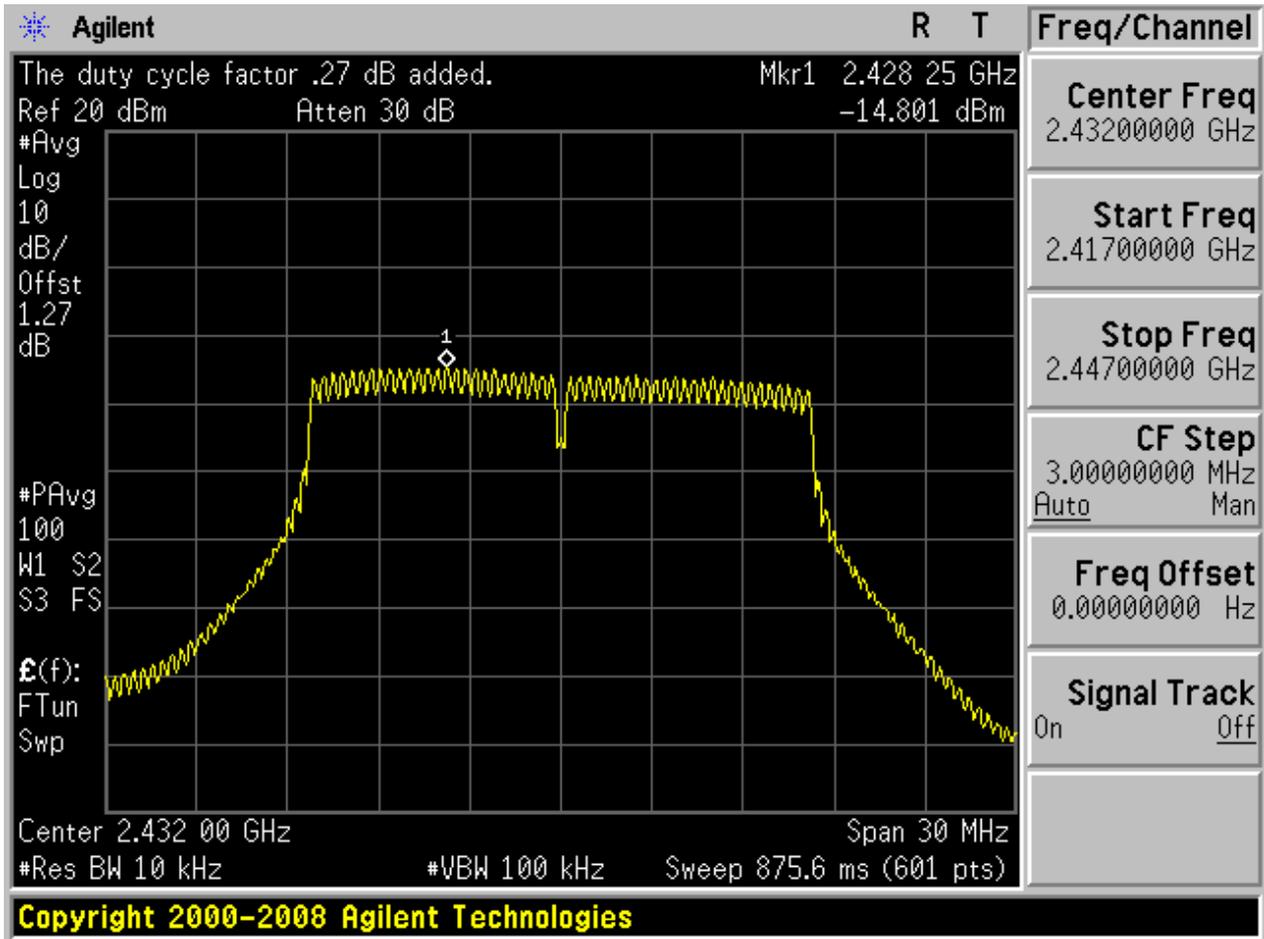


2.6 11B\_H@Ant 2



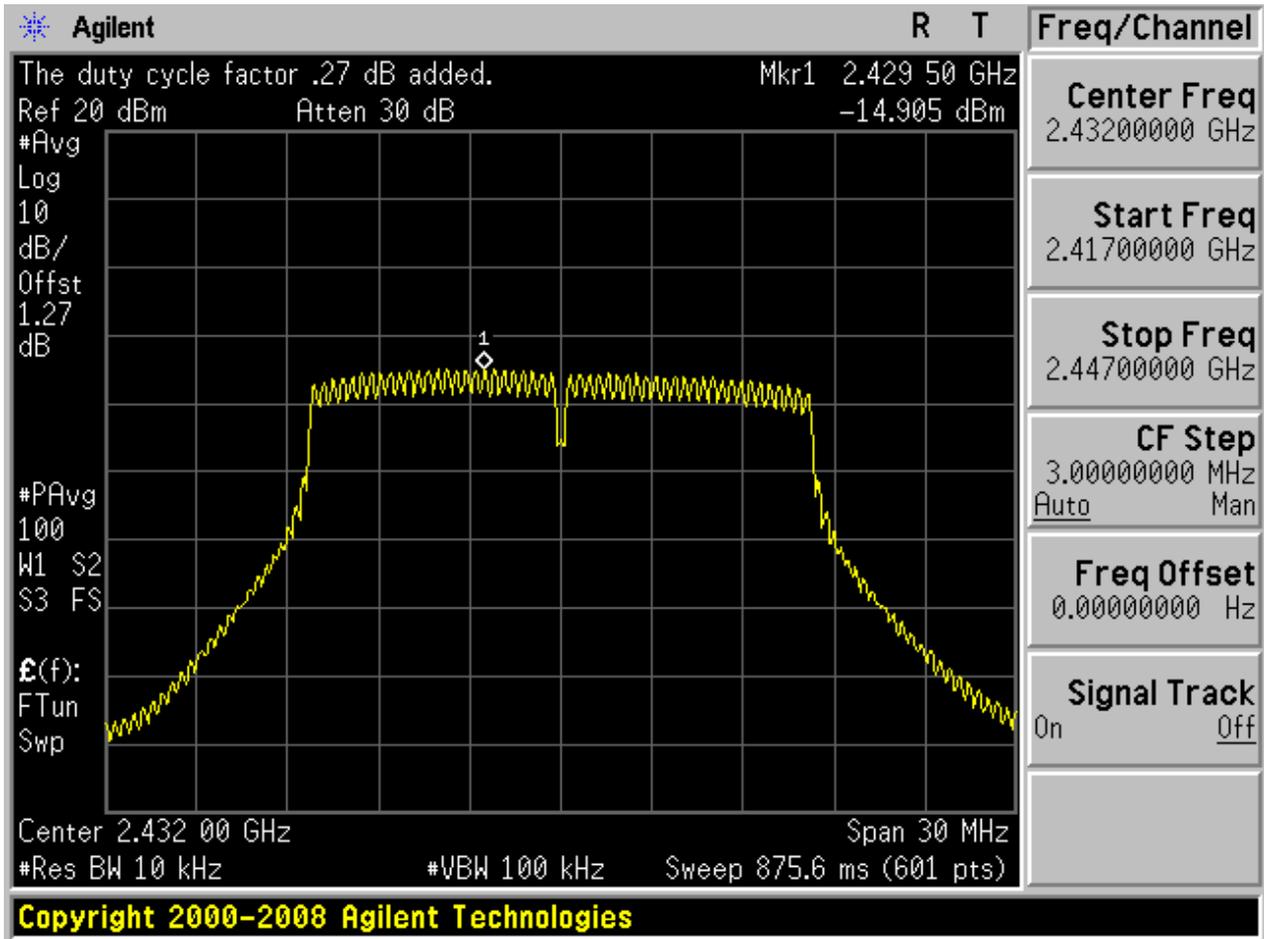


2.7 11G\_L@Ant 2



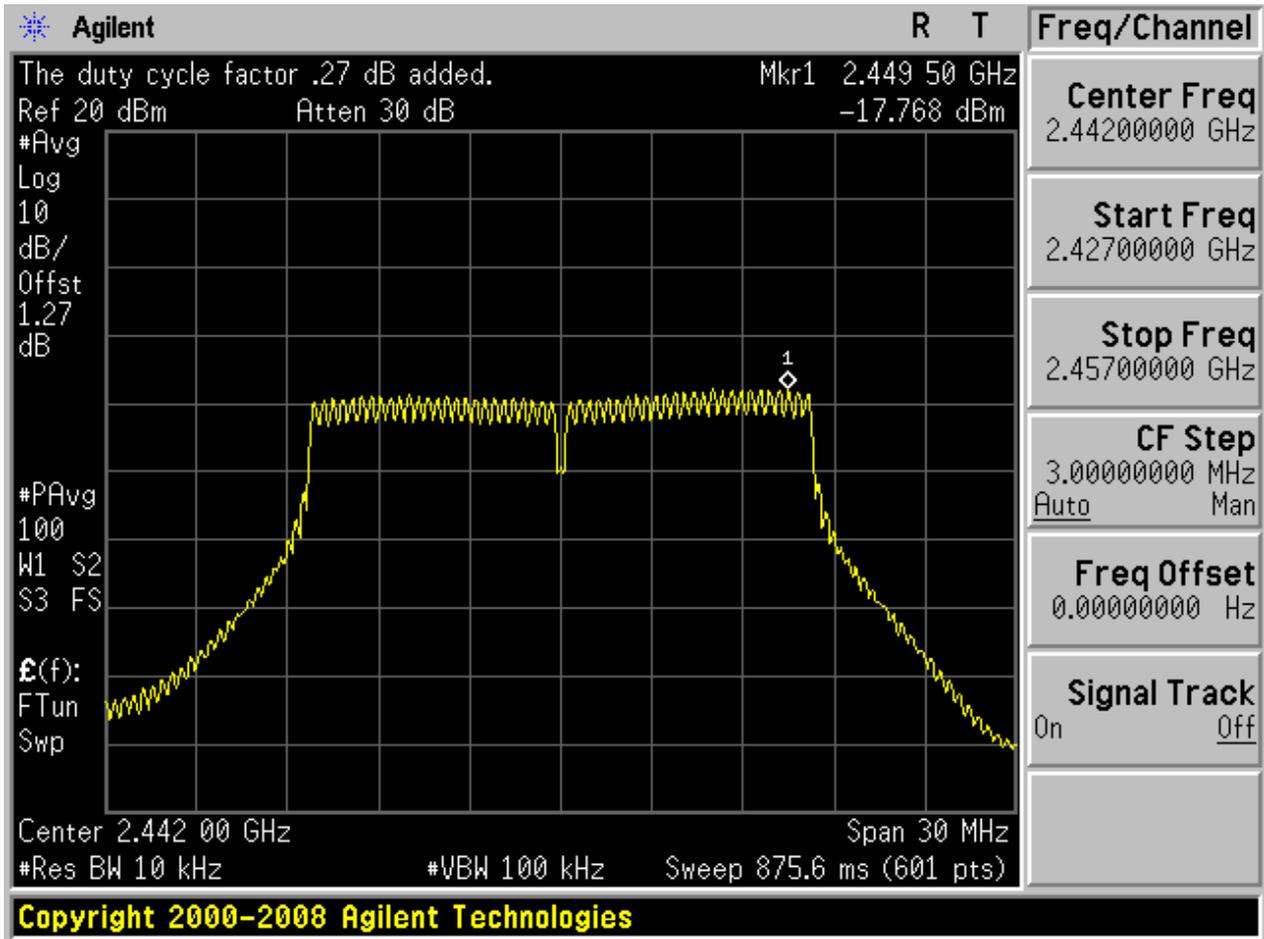


2.8 11G\_L@Ant 1



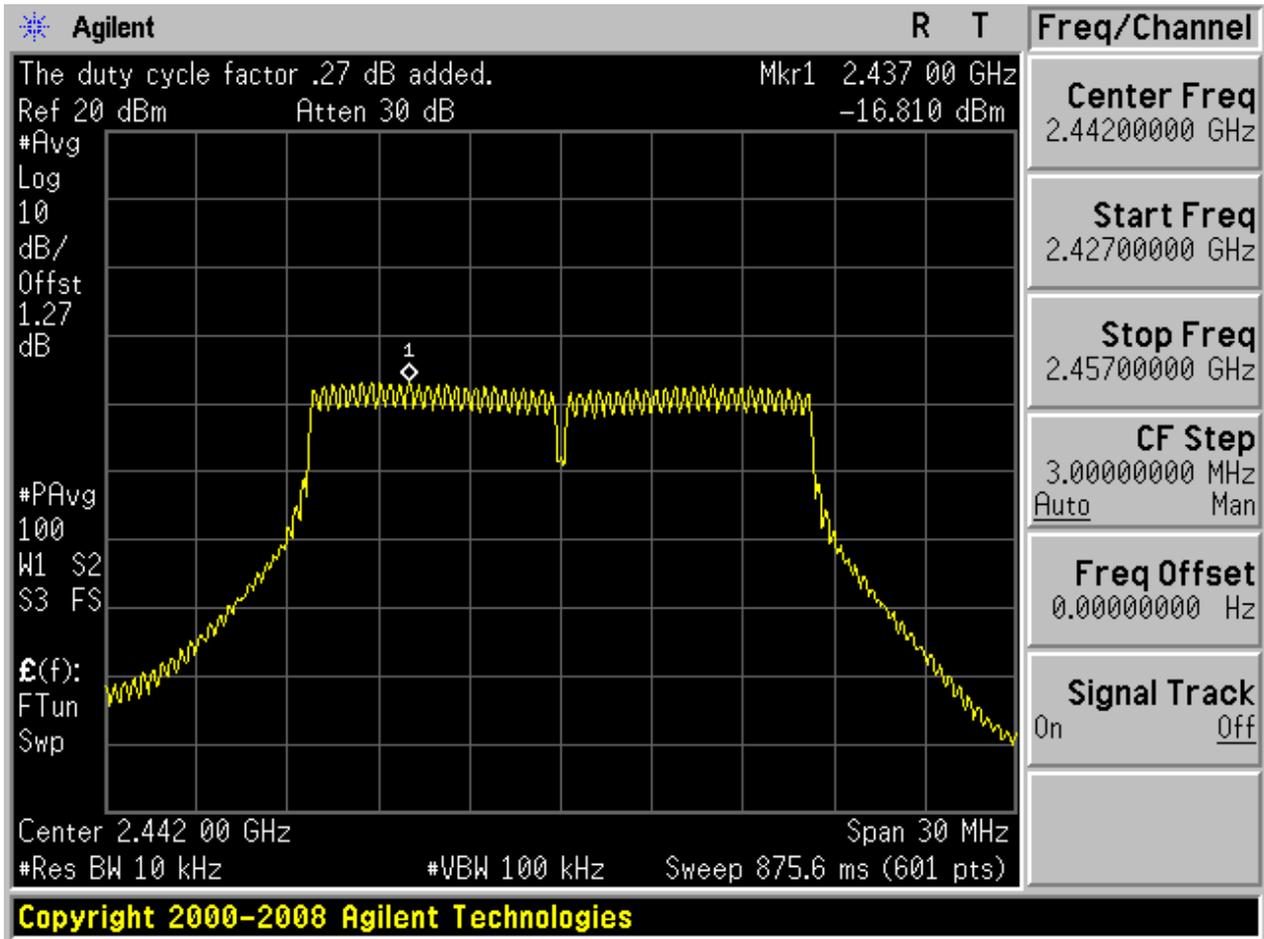


2.9 11G\_M@Ant 2



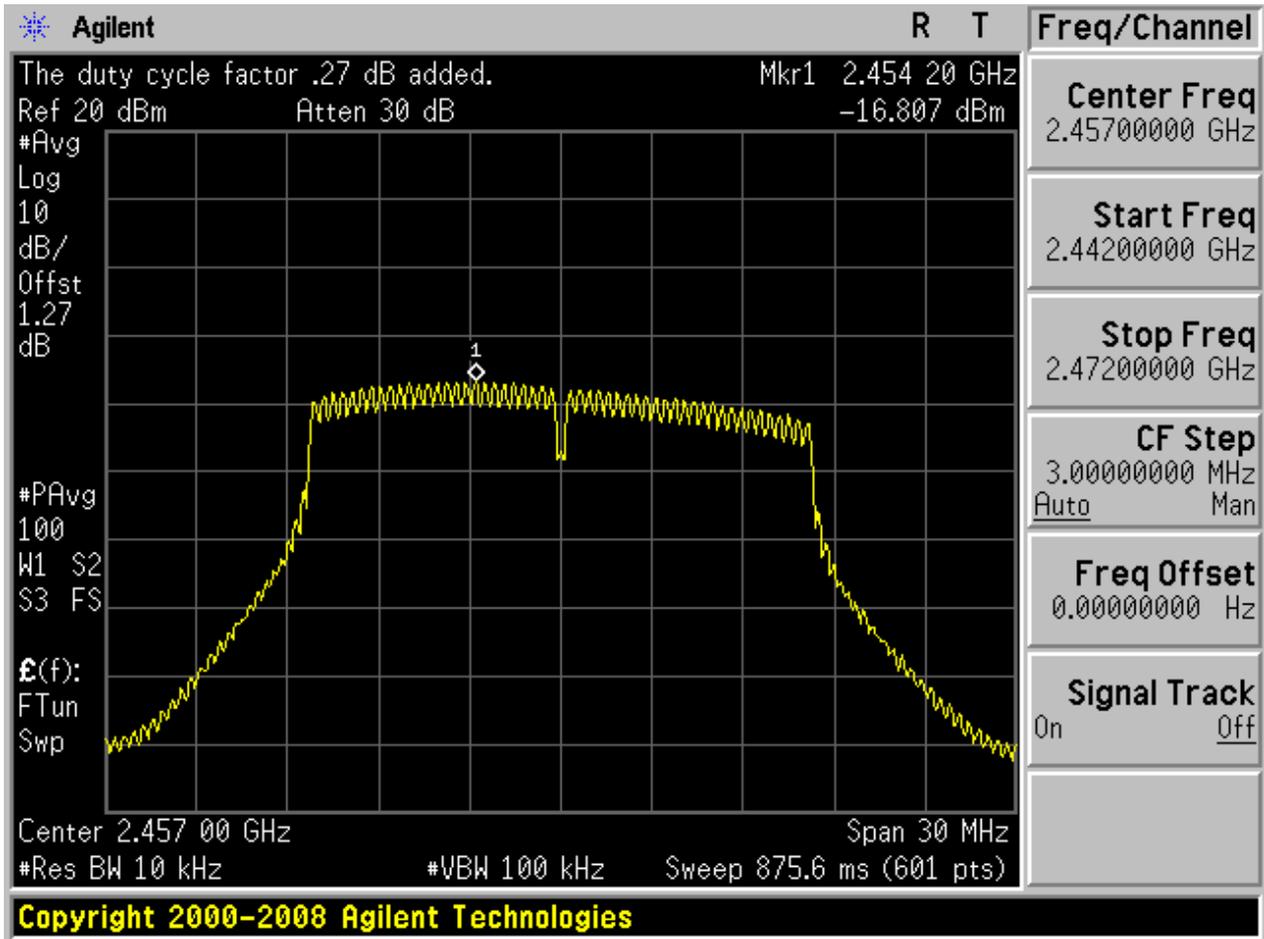


2.10 11G\_M@Ant 1



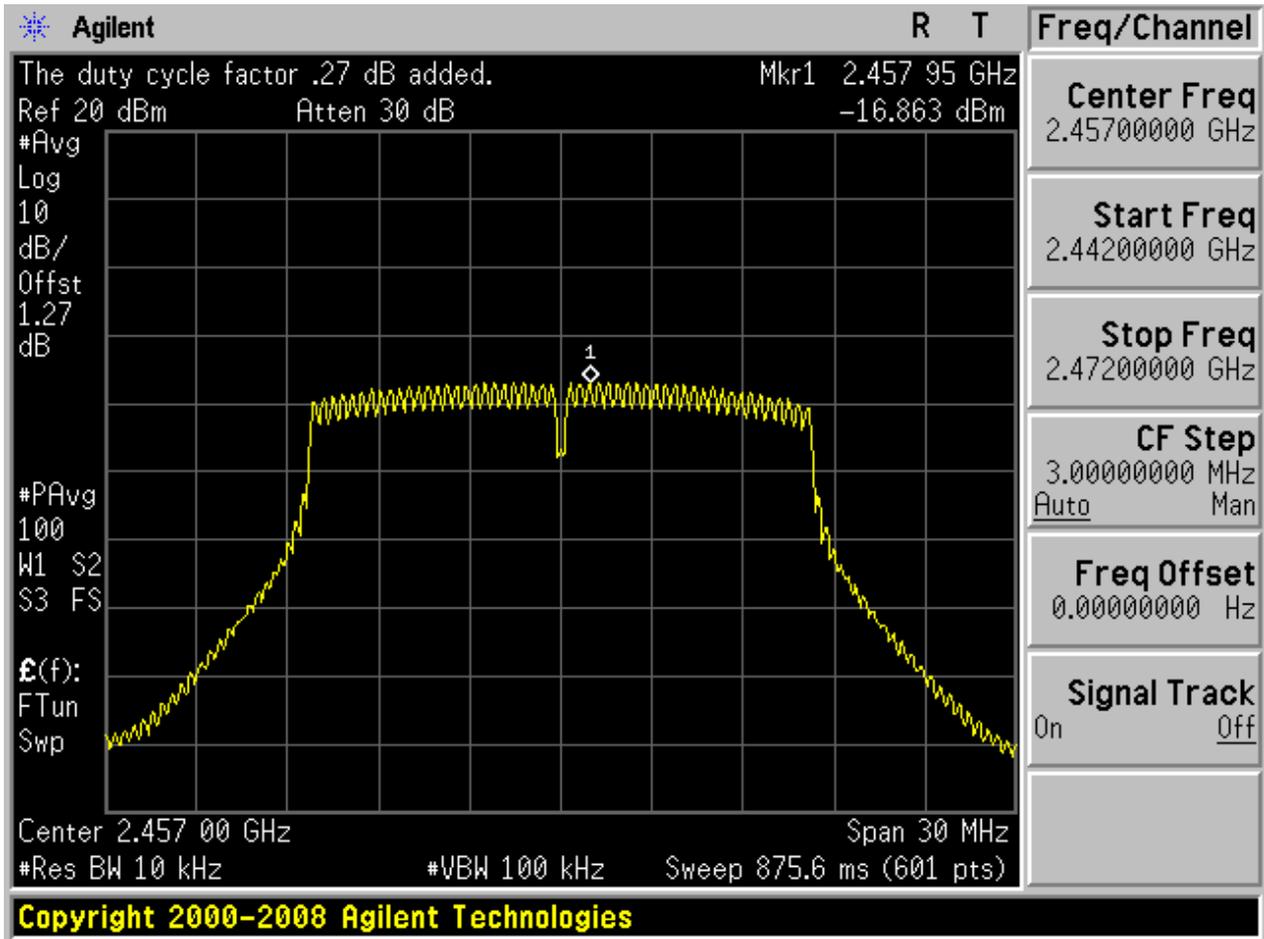


2.11 11G\_H@Ant 2



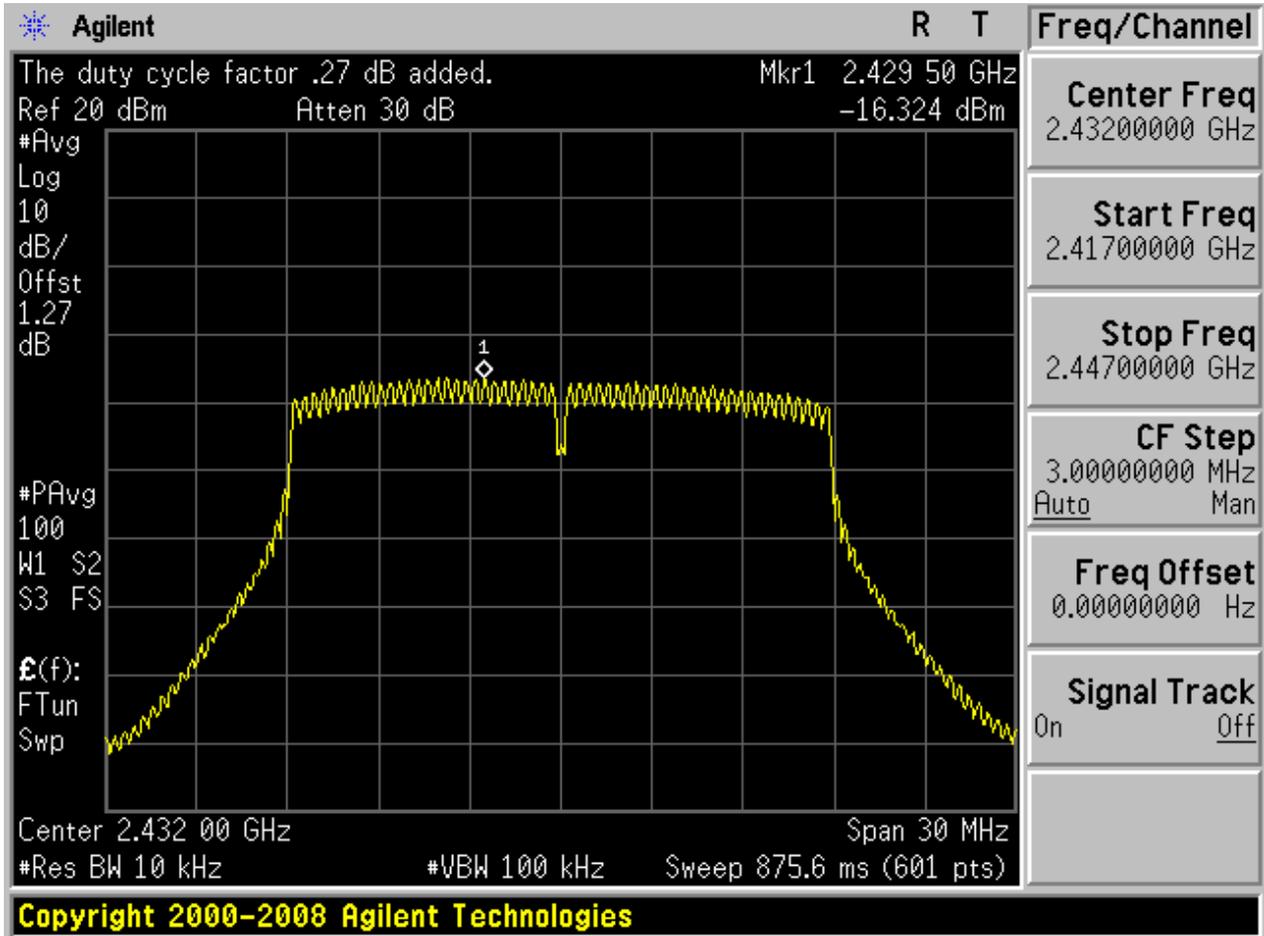


2.12 11G\_H@Ant 1



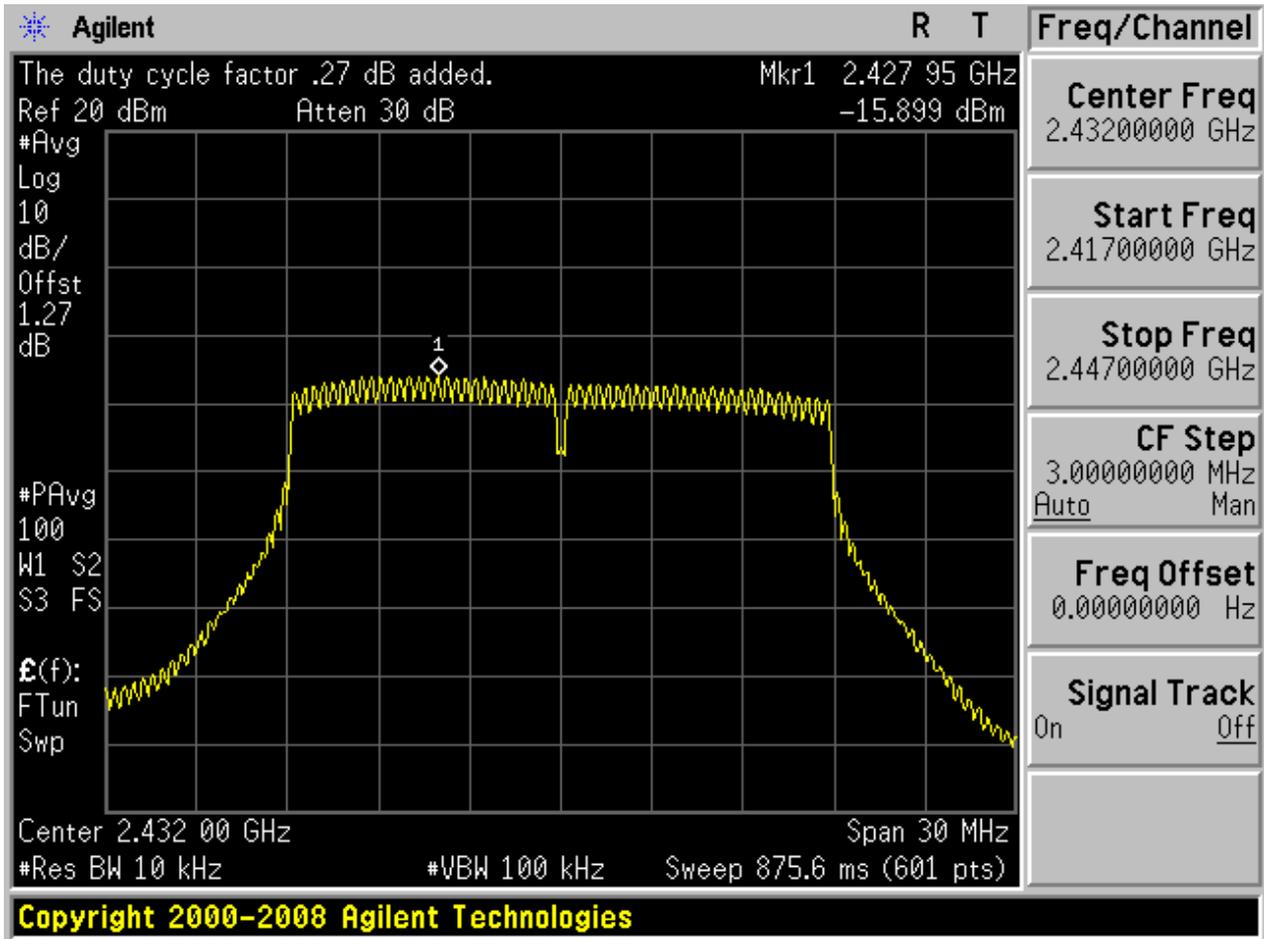


2.13 11N20\_L@Ant 1



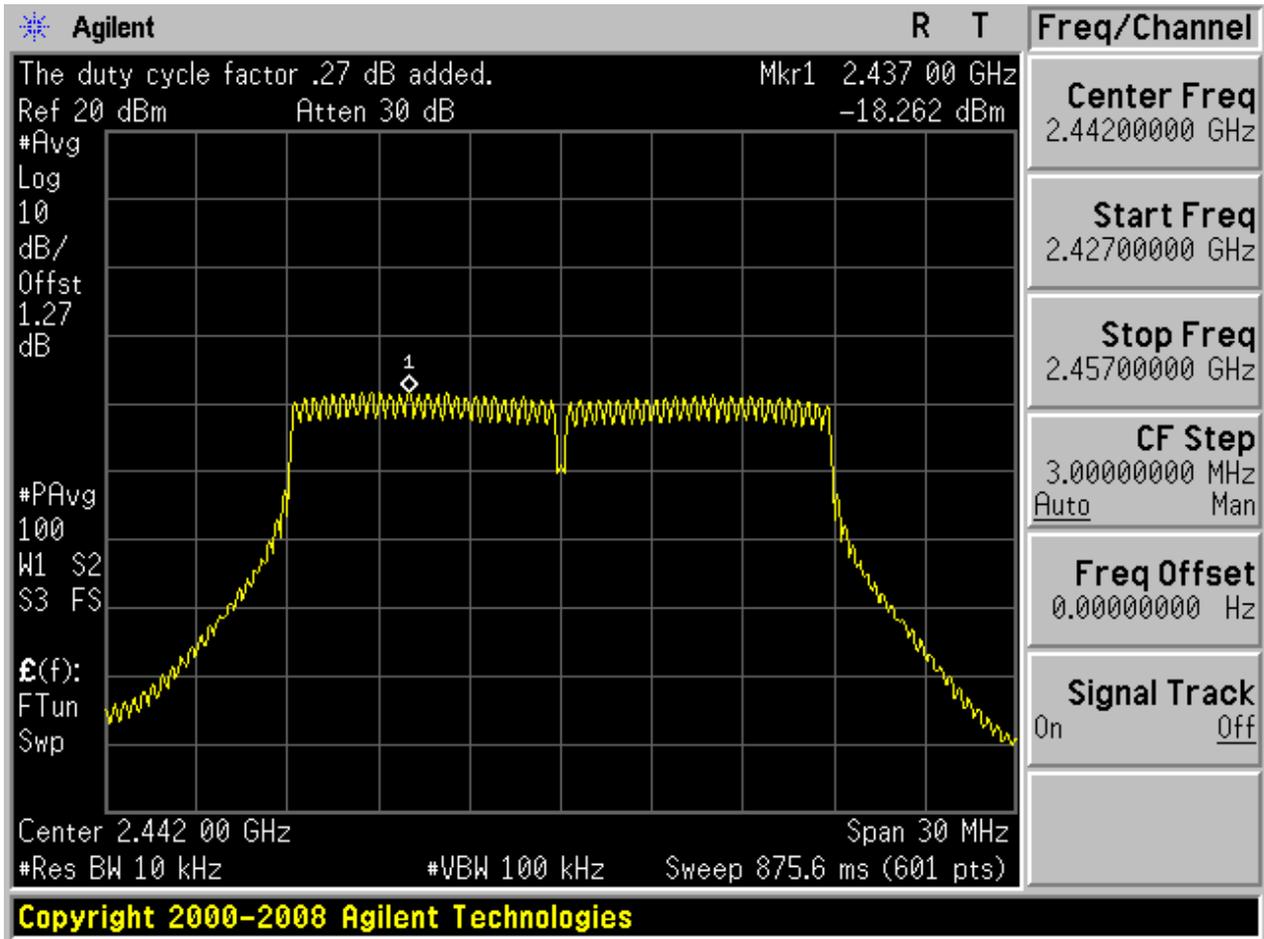


2.14 11N20\_L@Ant 2



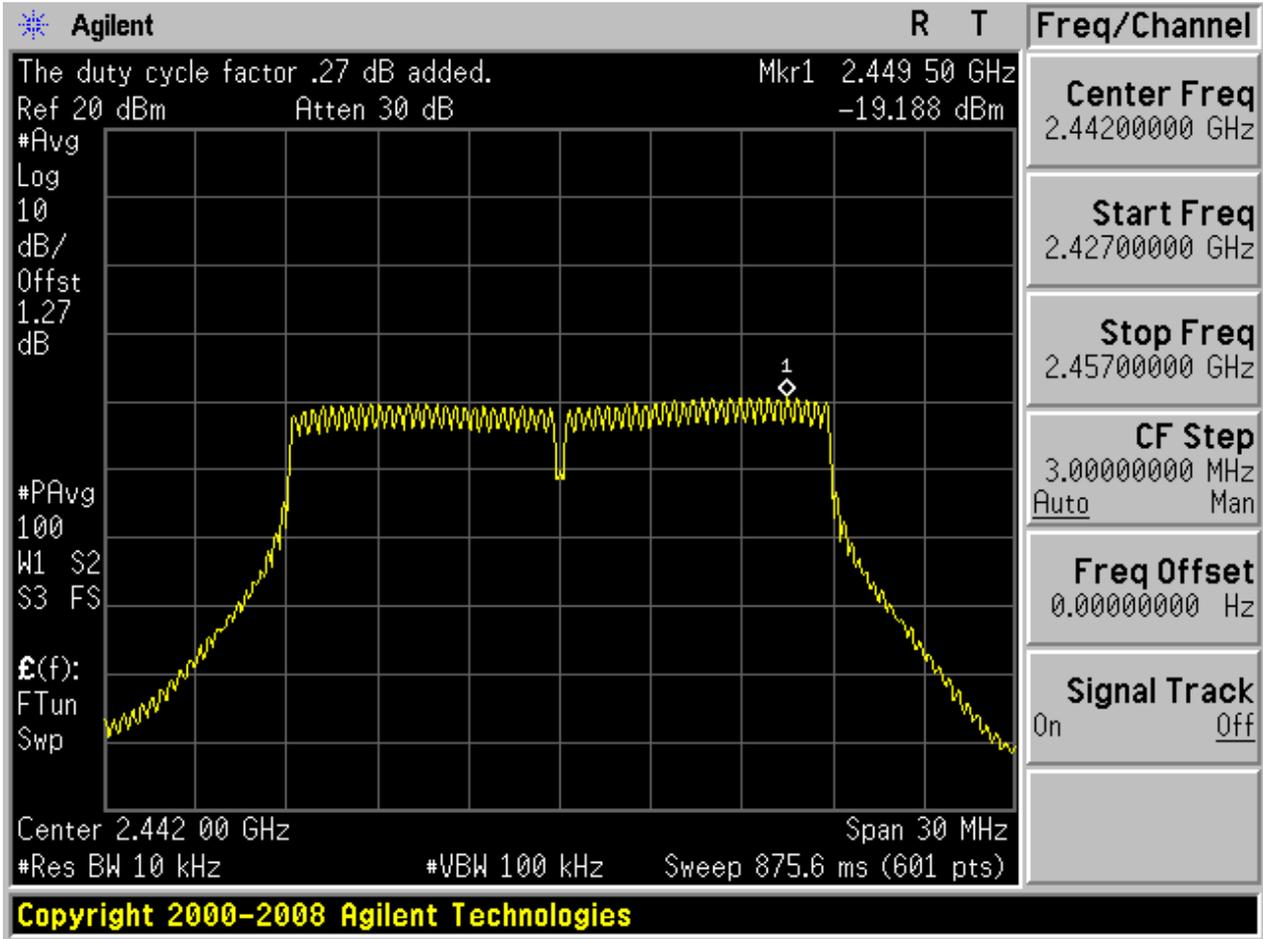


2.15 11N20\_M@Ant 1



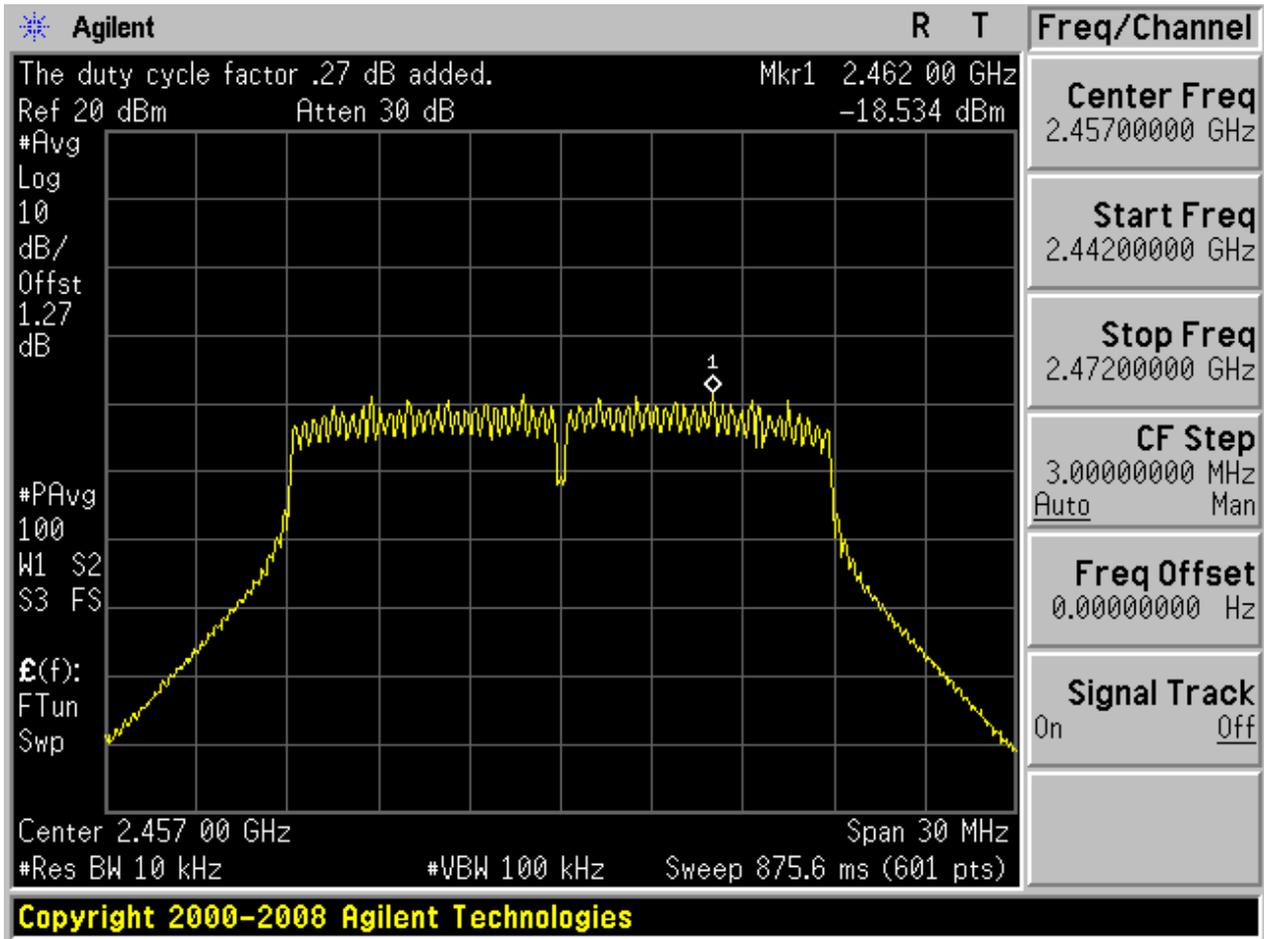


2.16 11N20\_M@Ant 2

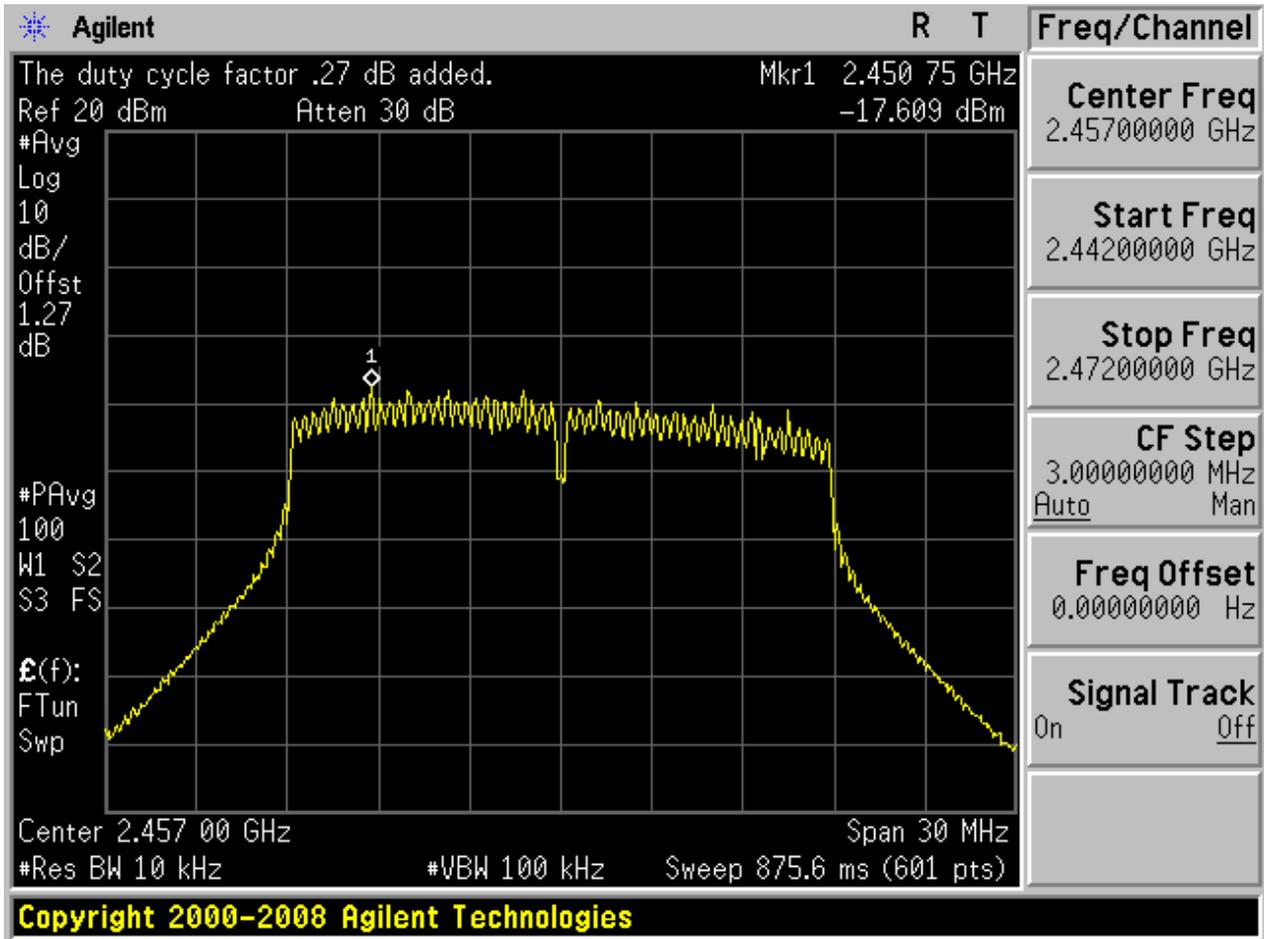




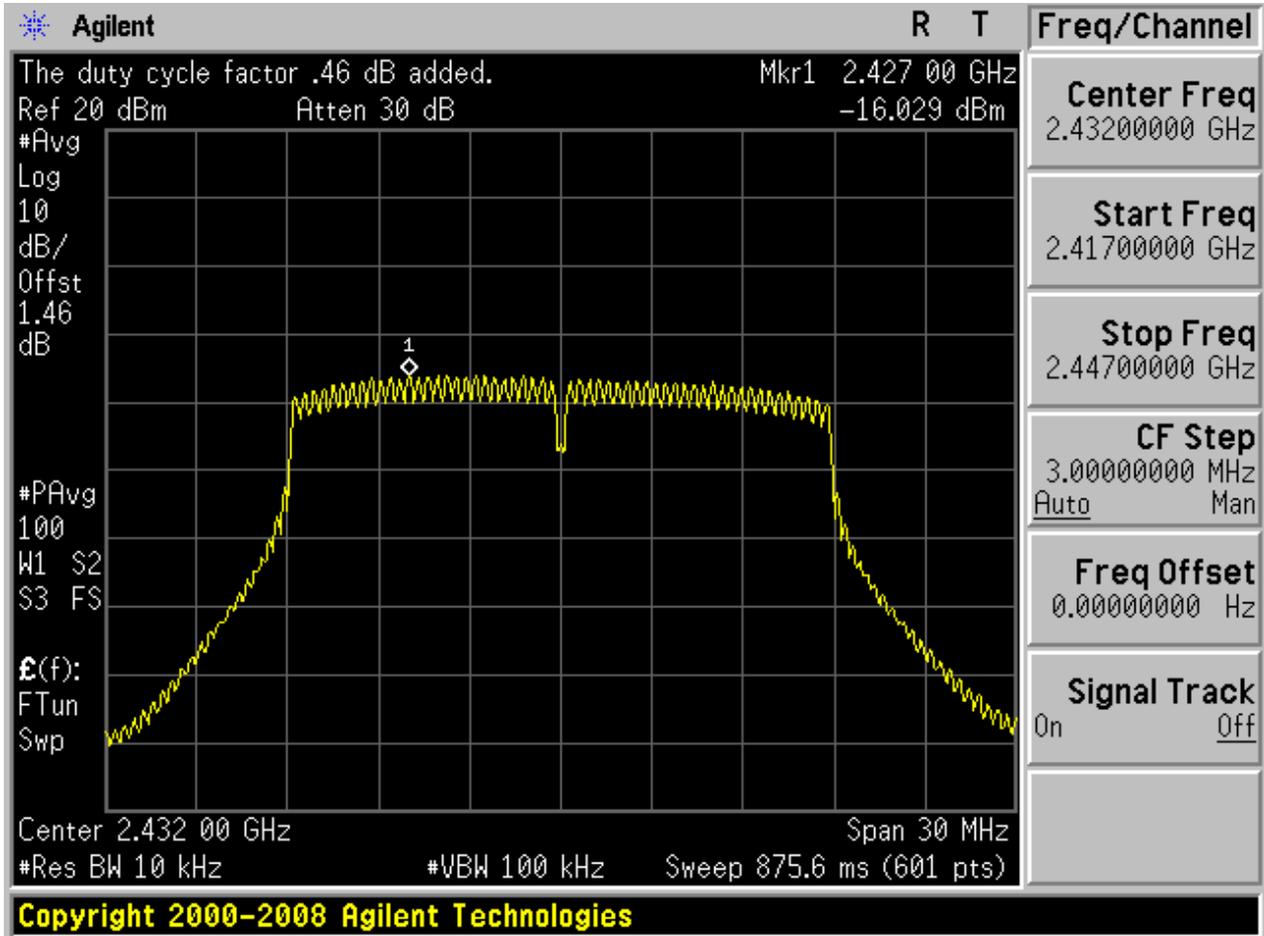
2.17 11N20\_H@Ant 1



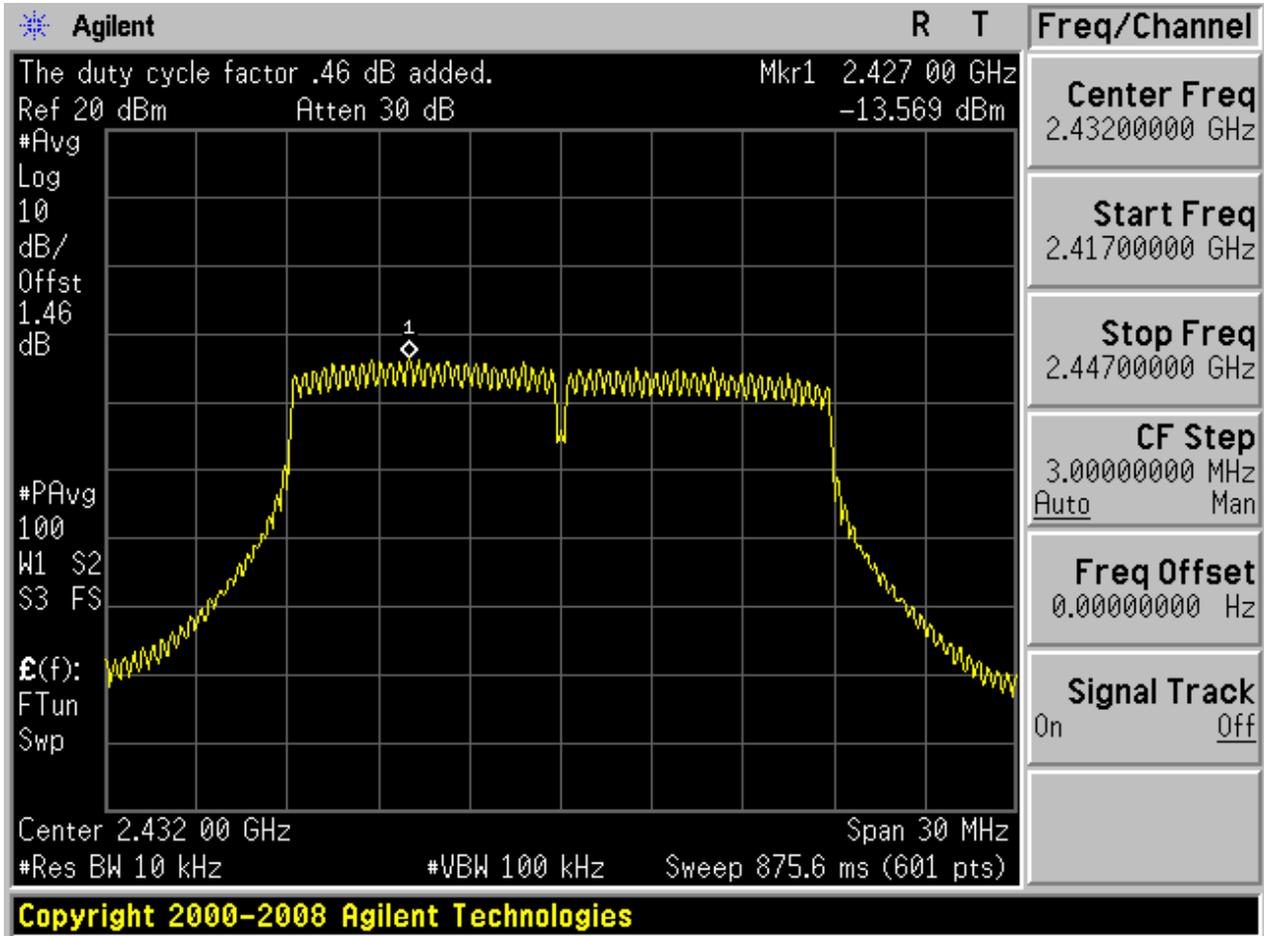
2.18 11N20\_H@Ant 2



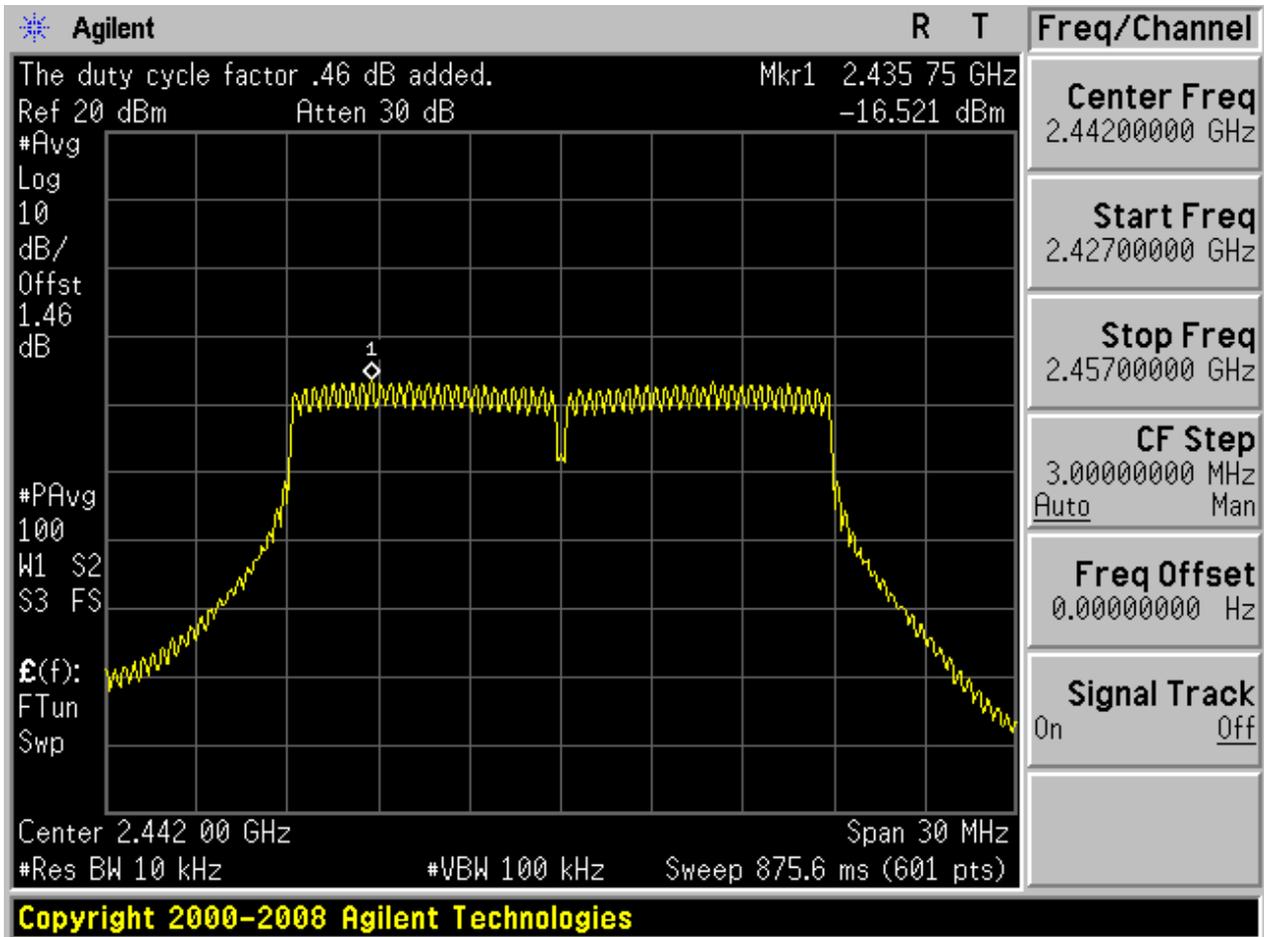
2.19 11N20m\_L@Ant 1



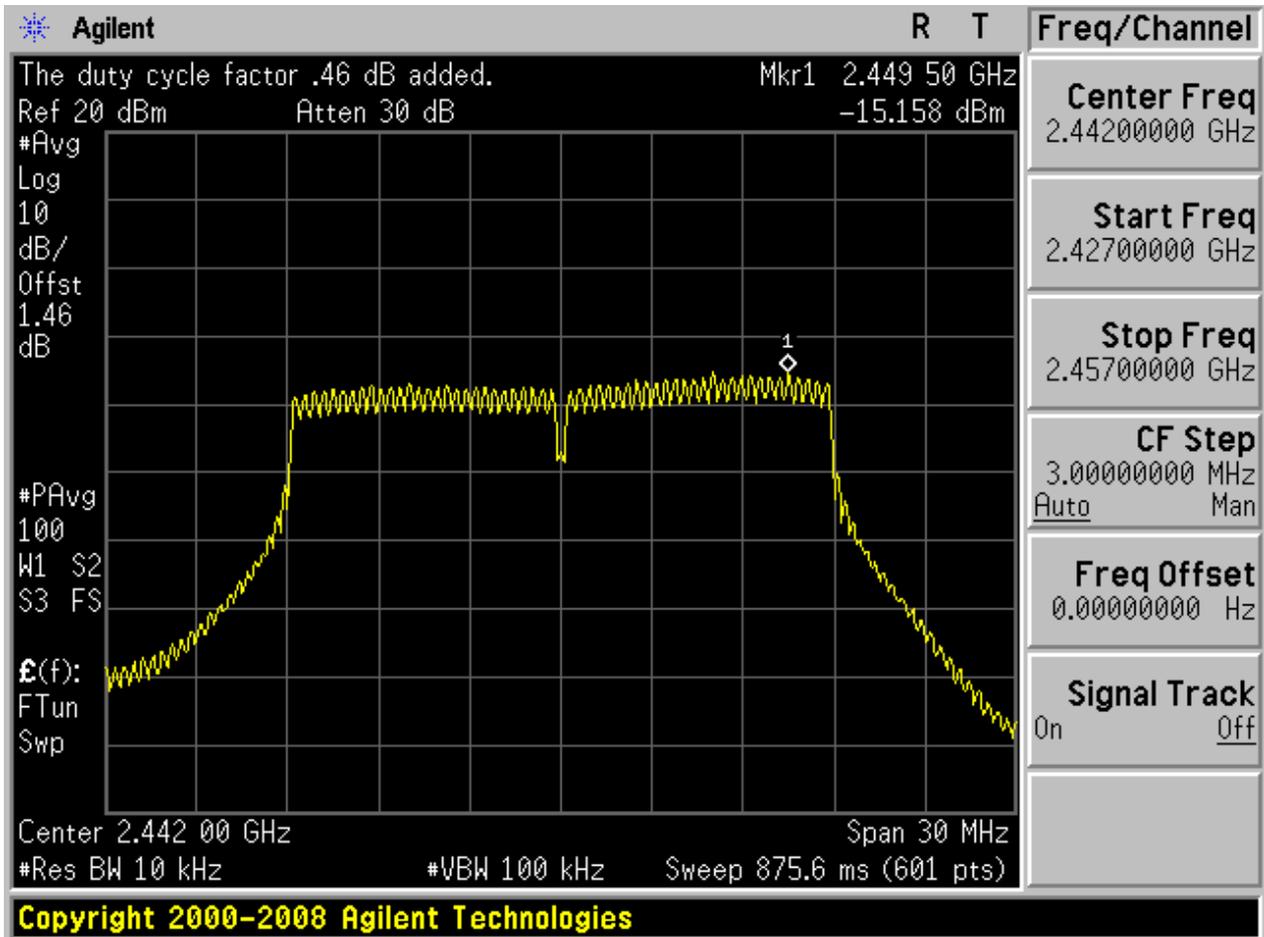
2.20 11N20m\_L@Ant 2



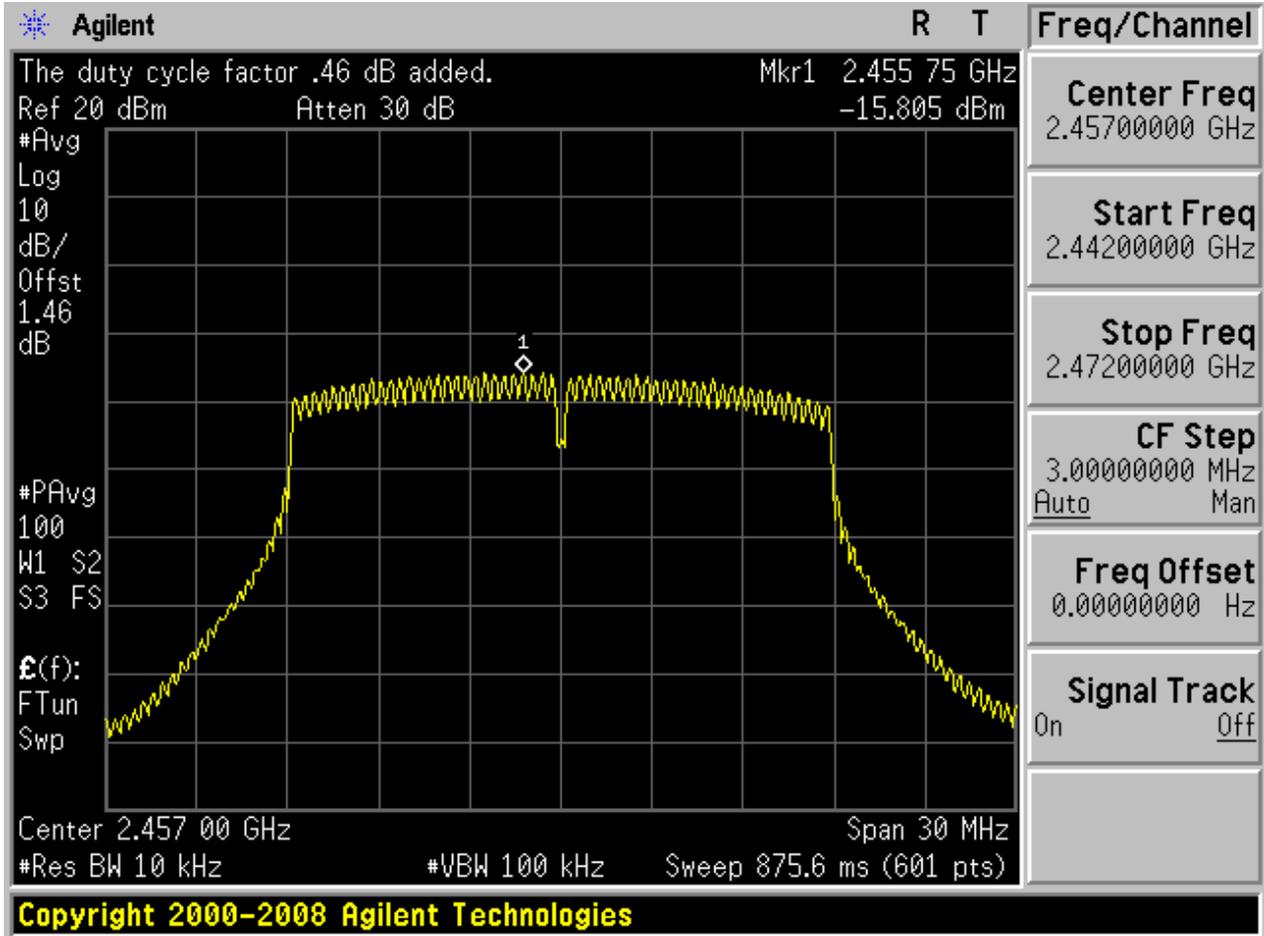
2.21 11N20m\_M@Ant 1



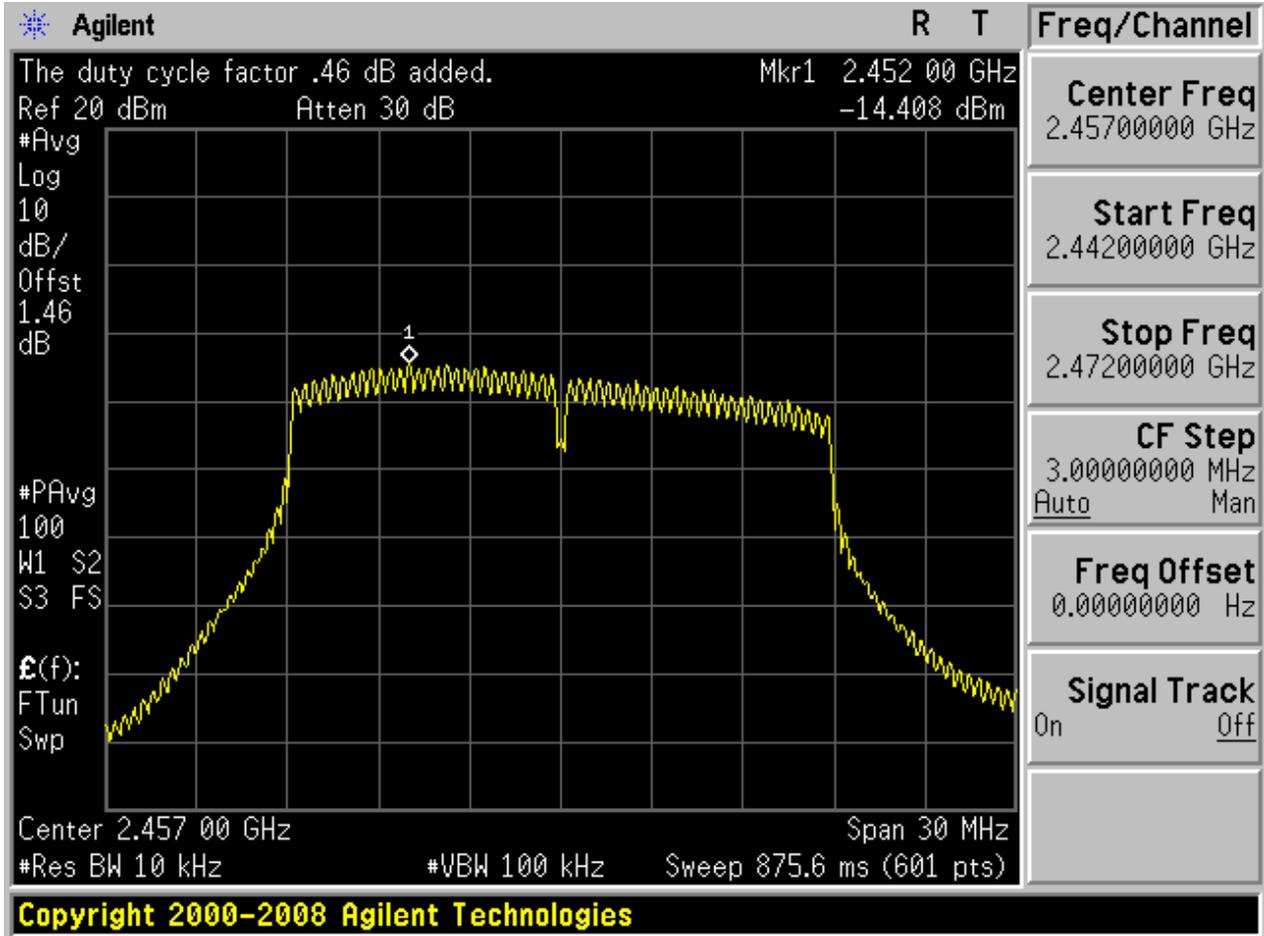
2.22 11N20m\_M@Ant 2



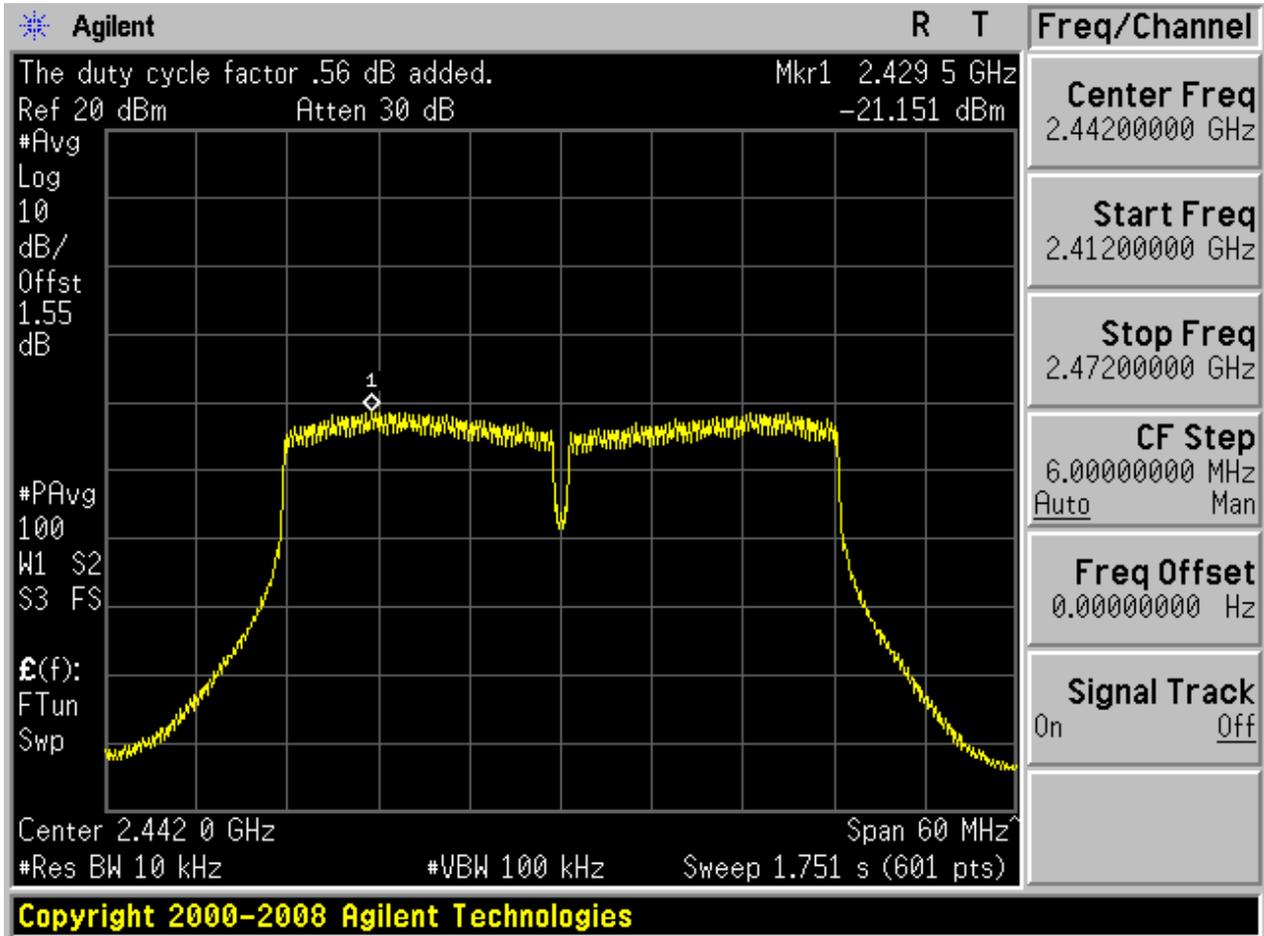
2.23 11N20m\_H@Ant 1



2.24 11N20m\_H@Ant 2

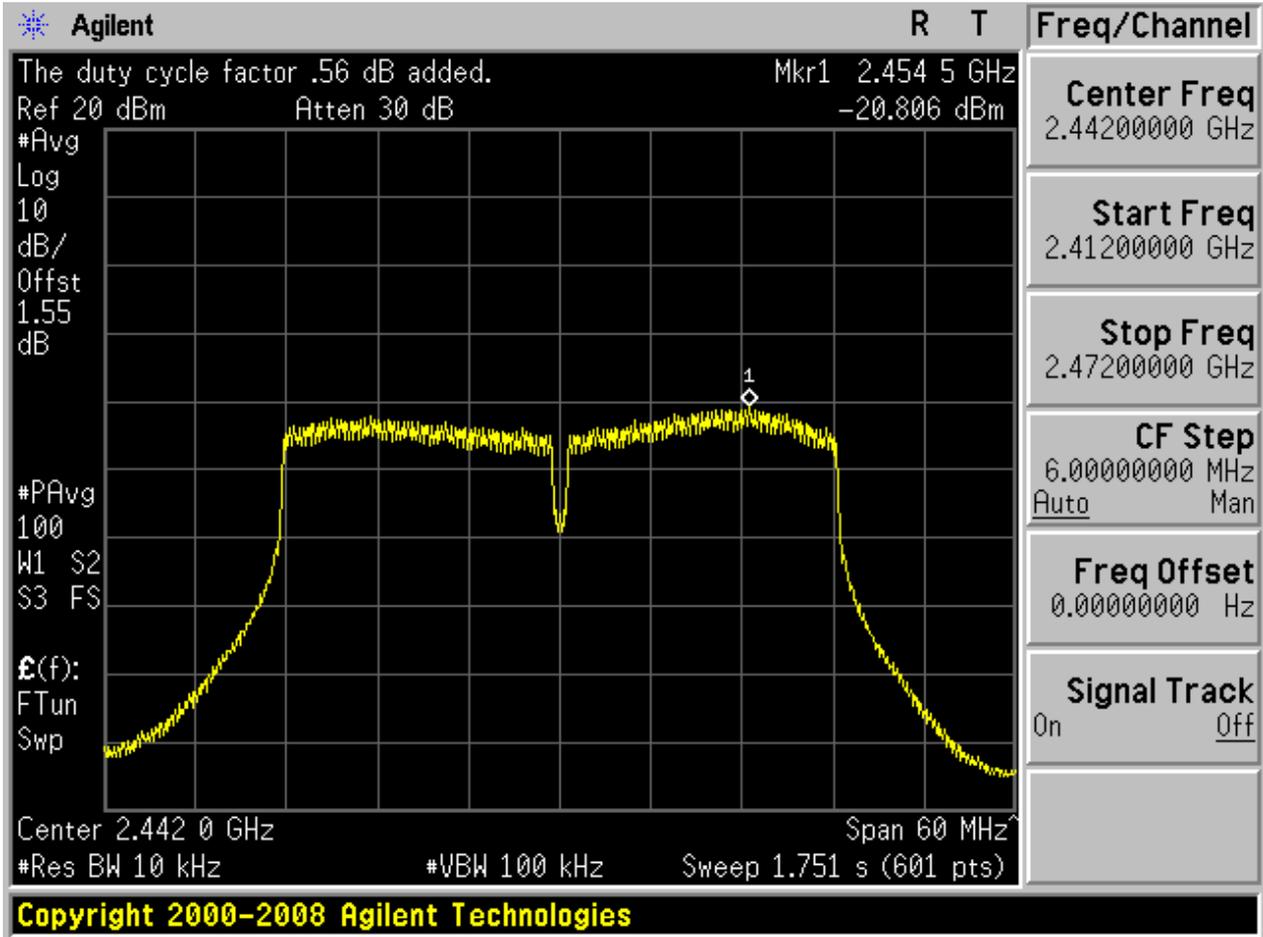


2.25 11N40\_L@Ant 1



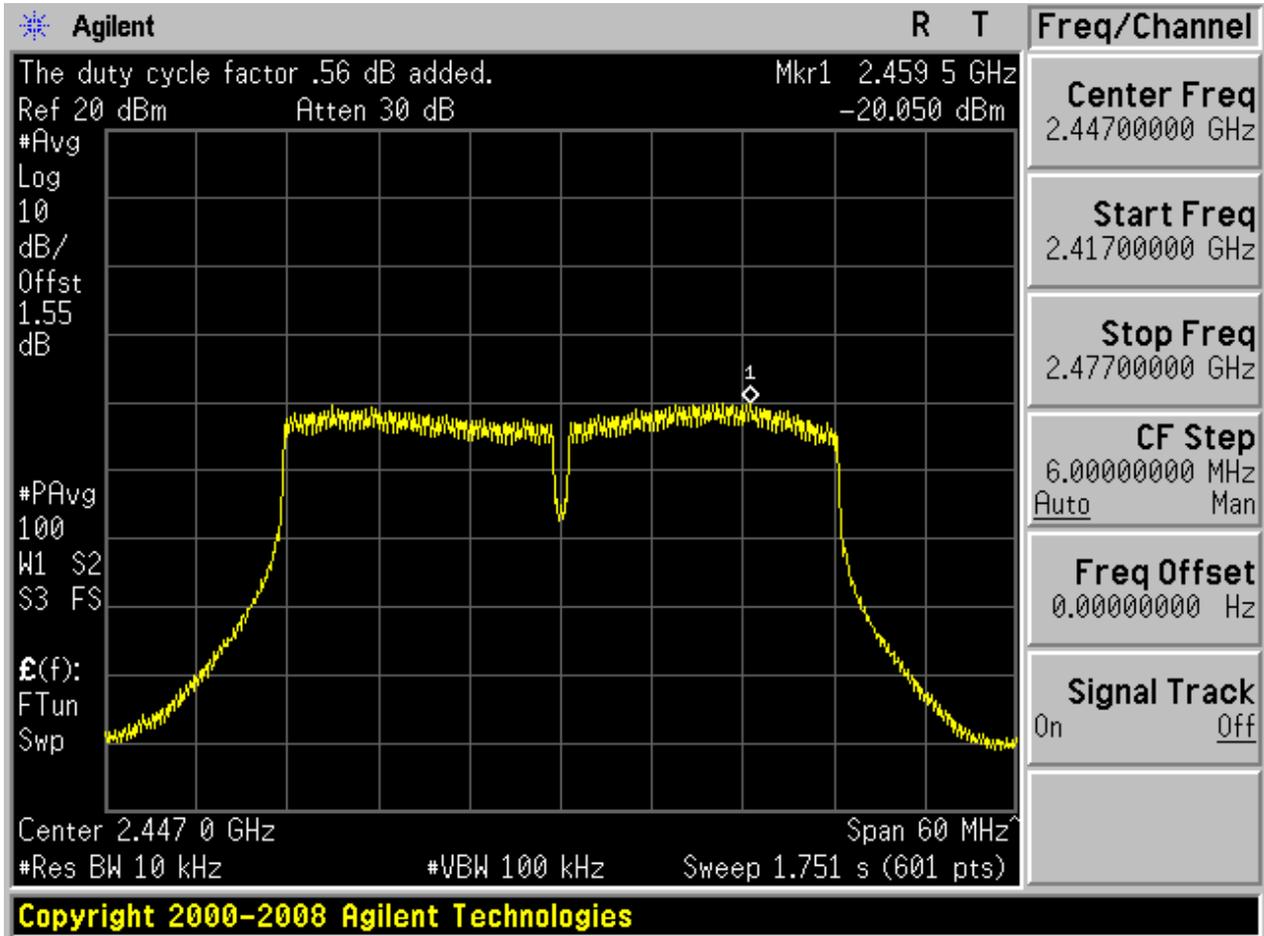


2.26 11N40\_L@Ant 2



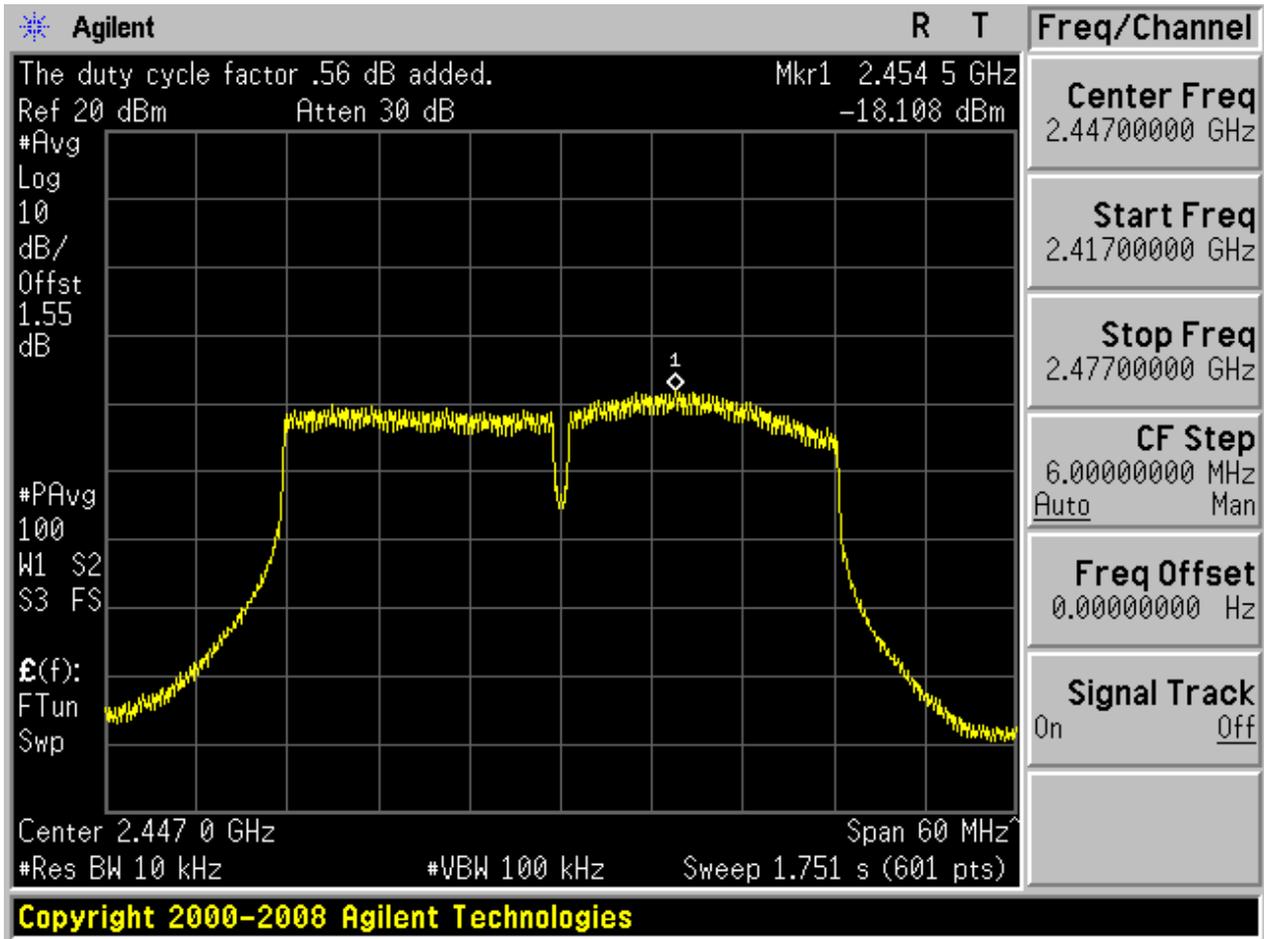


2.27 11N40\_H@Ant 1



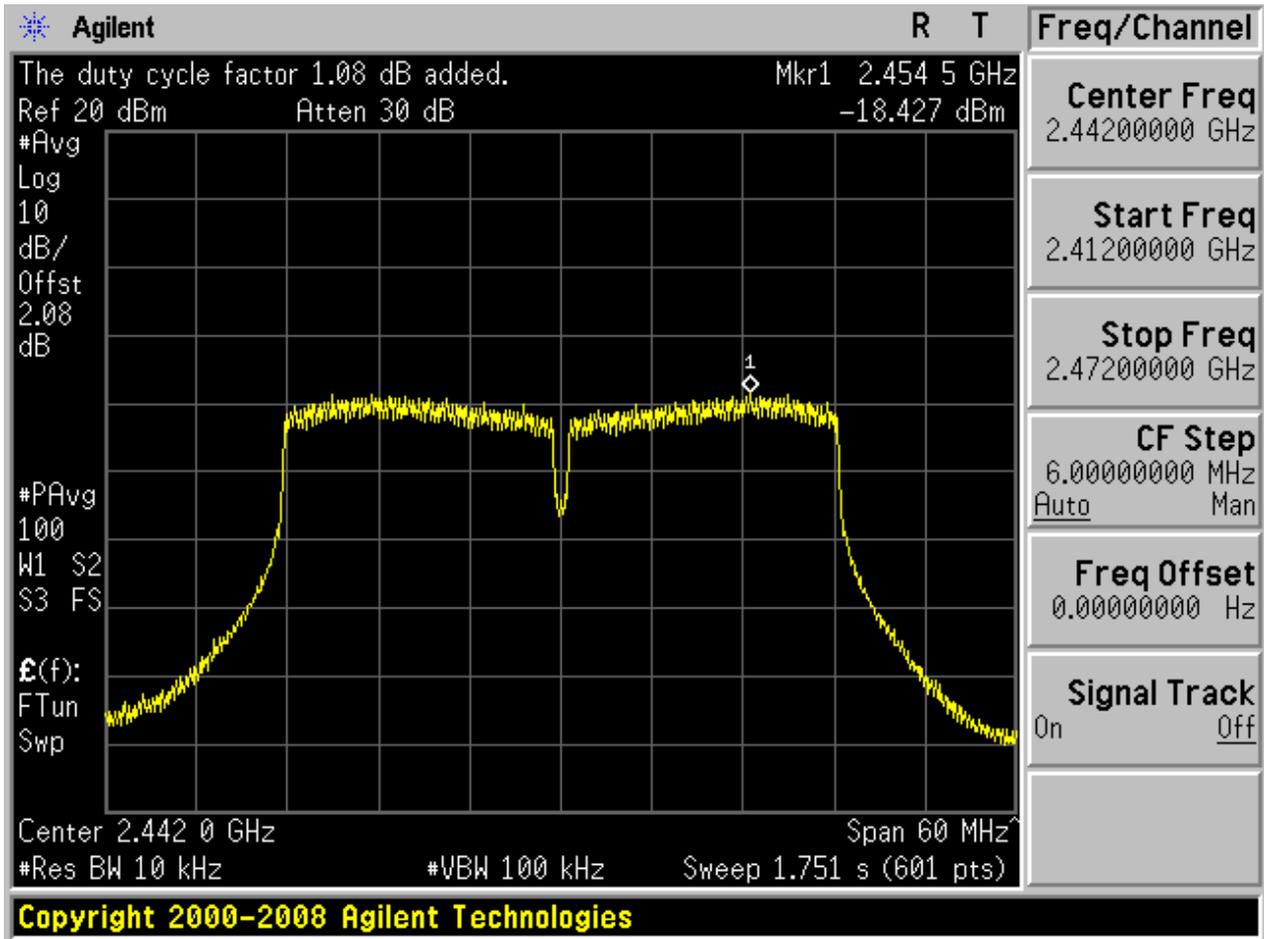


2.28 11N40\_H@Ant 2

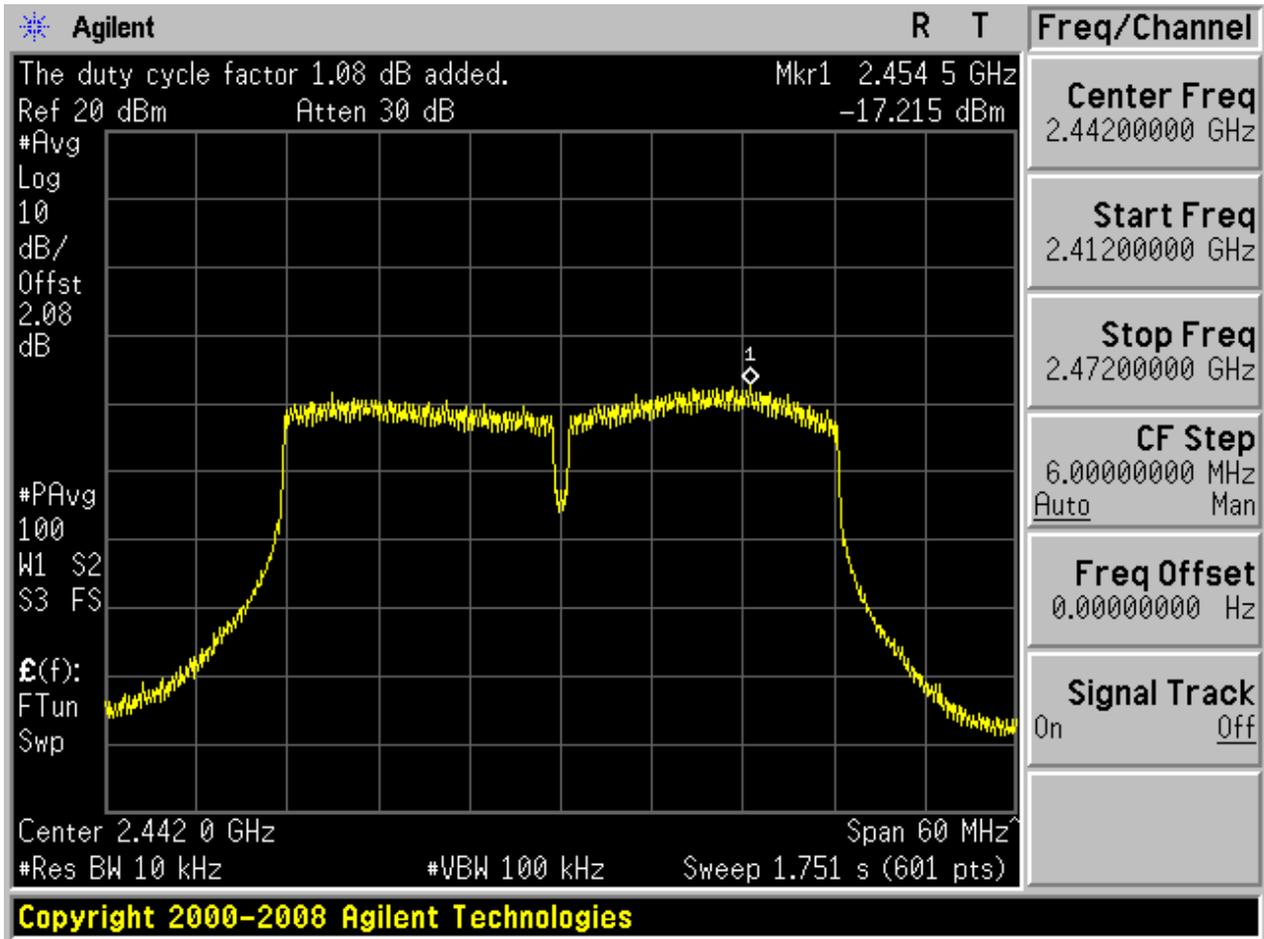




2.29 11N40m\_L@Ant 1

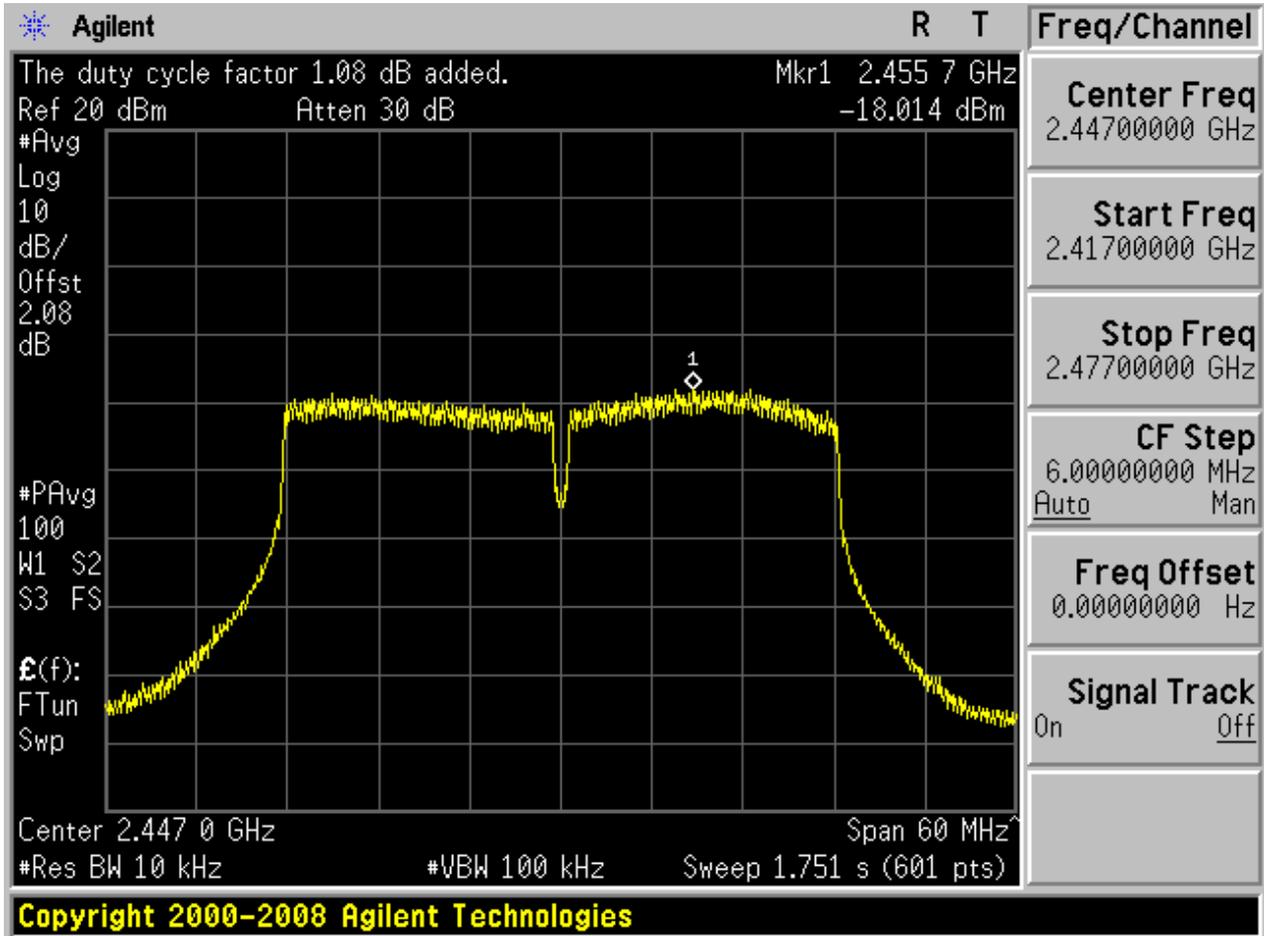


2.30 11N40m\_L@Ant 2

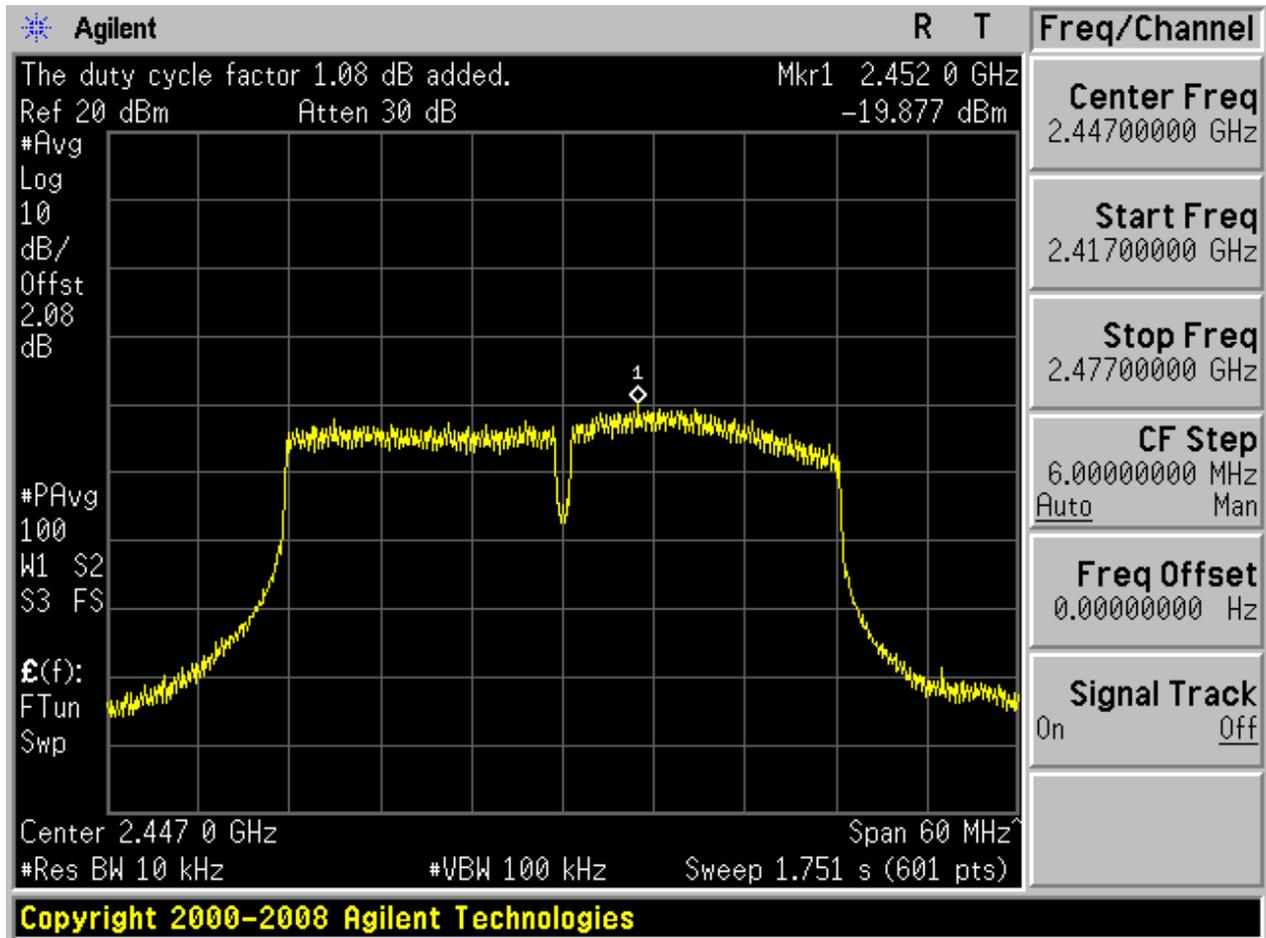




2.31 11N40m\_H@Ant 1



2.32 11N40m\_H@Ant 2





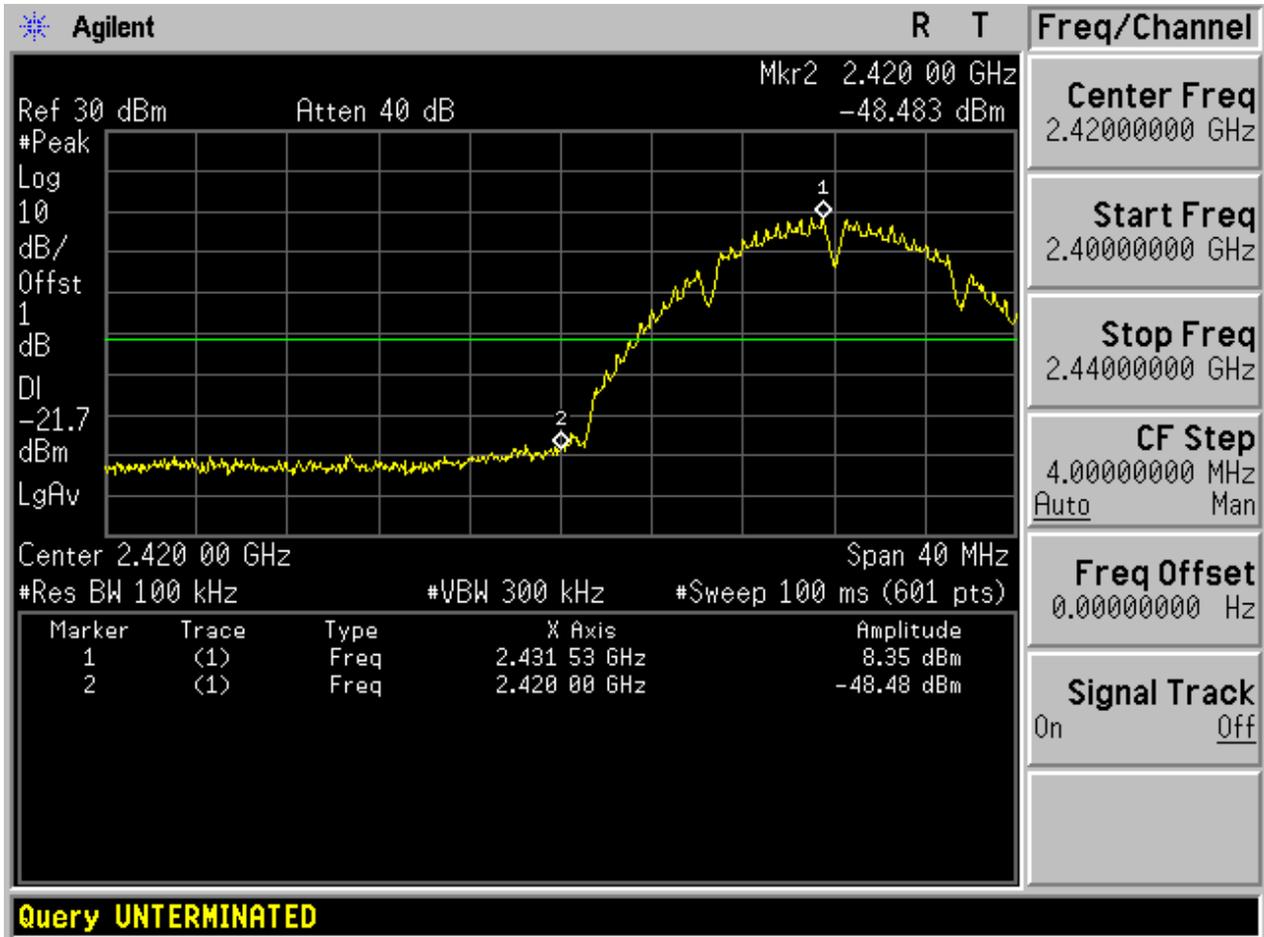
## Appendix E: Band Edges Compliance

### Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Carrier Power[dBm]	Max.Spurious Level[dBm]	Verdict
11B	L	2432	Ant 1	8.35	-48.48	pass
11B	L	2432	Ant 2	8.78	-47.30	pass
11B	H	2457	Ant 1	8.31	-52.24	pass
11B	H	2457	Ant 2	8.06	-51.24	pass
11G	L	2432	Ant 1	3.51	-38.66	pass
11G	L	2432	Ant 2	3.61	-37.97	pass
11G	H	2457	Ant 1	1.66	-53.62	pass
11G	H	2457	Ant 2	1.80	-52.63	pass
11N20	L	2432	Ant 1	3.12	-39.96	pass
11N20	L	2432	Ant 2	3.70	-38.39	pass
11N20	H	2457	Ant 1	-0.33	-52.87	pass
11N20	H	2457	Ant 2	-0.05	-51.17	pass
11N20m	L	2432	Ant 1	3.30	-39.84	pass
11N20m	L	2432	Ant 2	3.71	-34.89	pass
11N20m	H	2457	Ant 1	3.05	-53.16	pass
11N20m	H	2457	Ant 2	2.90	-53.00	pass
11N40	L	2442	Ant 1	-2.81	-38.70	pass
11N40	L	2442	Ant 2	-2.82	-37.57	pass
11N40	H	2447	Ant 1	-0.56	-52.29	pass
11N40	H	2447	Ant 2	0.86	-51.22	pass
11N40m	L	2442	Ant 1	-2.34	-37.44	pass
11N40m	L	2442	Ant 2	-2.64	-38.23	pass
11N40m	H	2447	Ant 1	0.44	-51.20	pass
11N40m	H	2447	Ant 2	-28.17	-52.50	pass

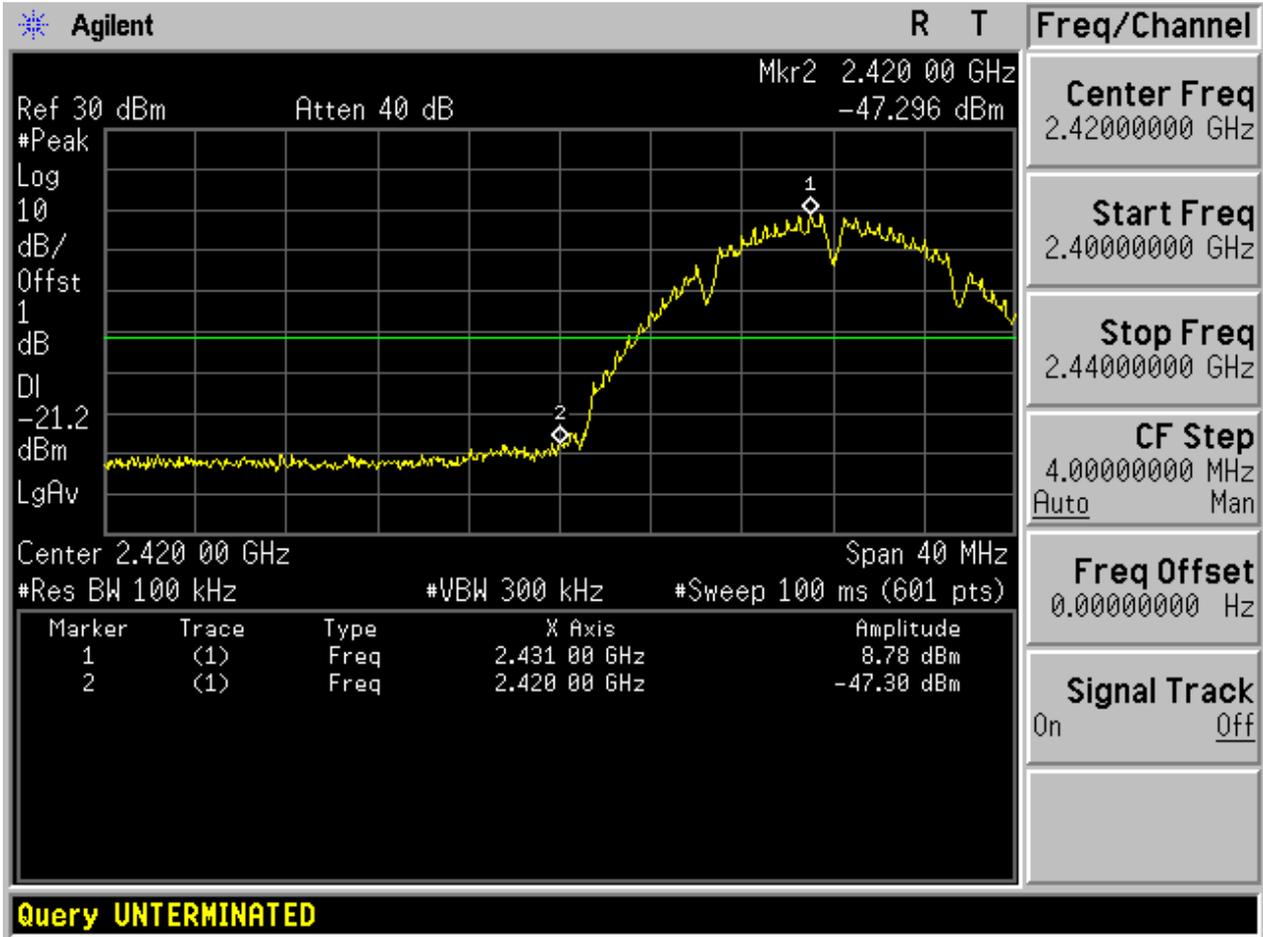
Part II - Test Plots

2.1 11B\_L@Ant 1



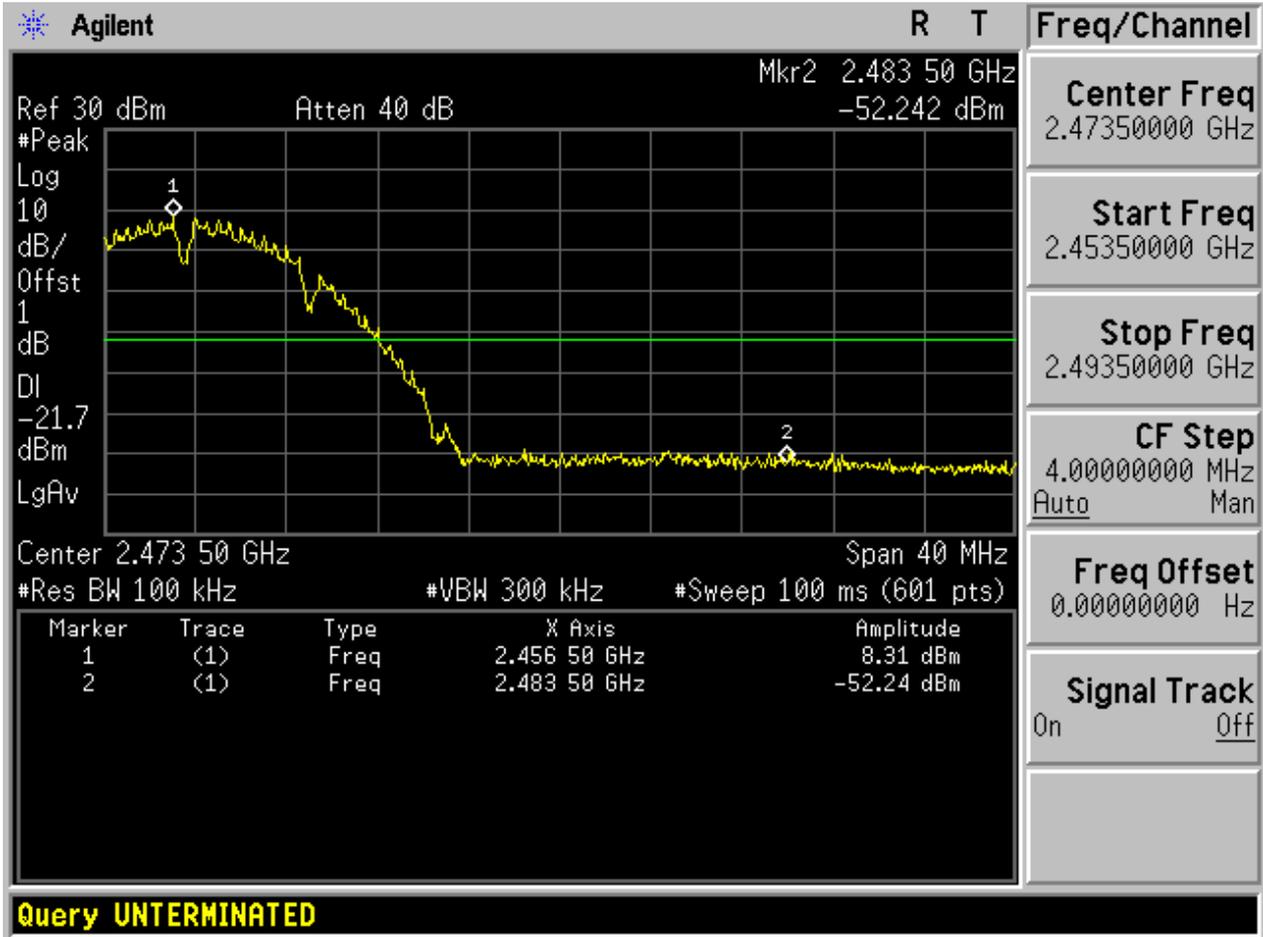


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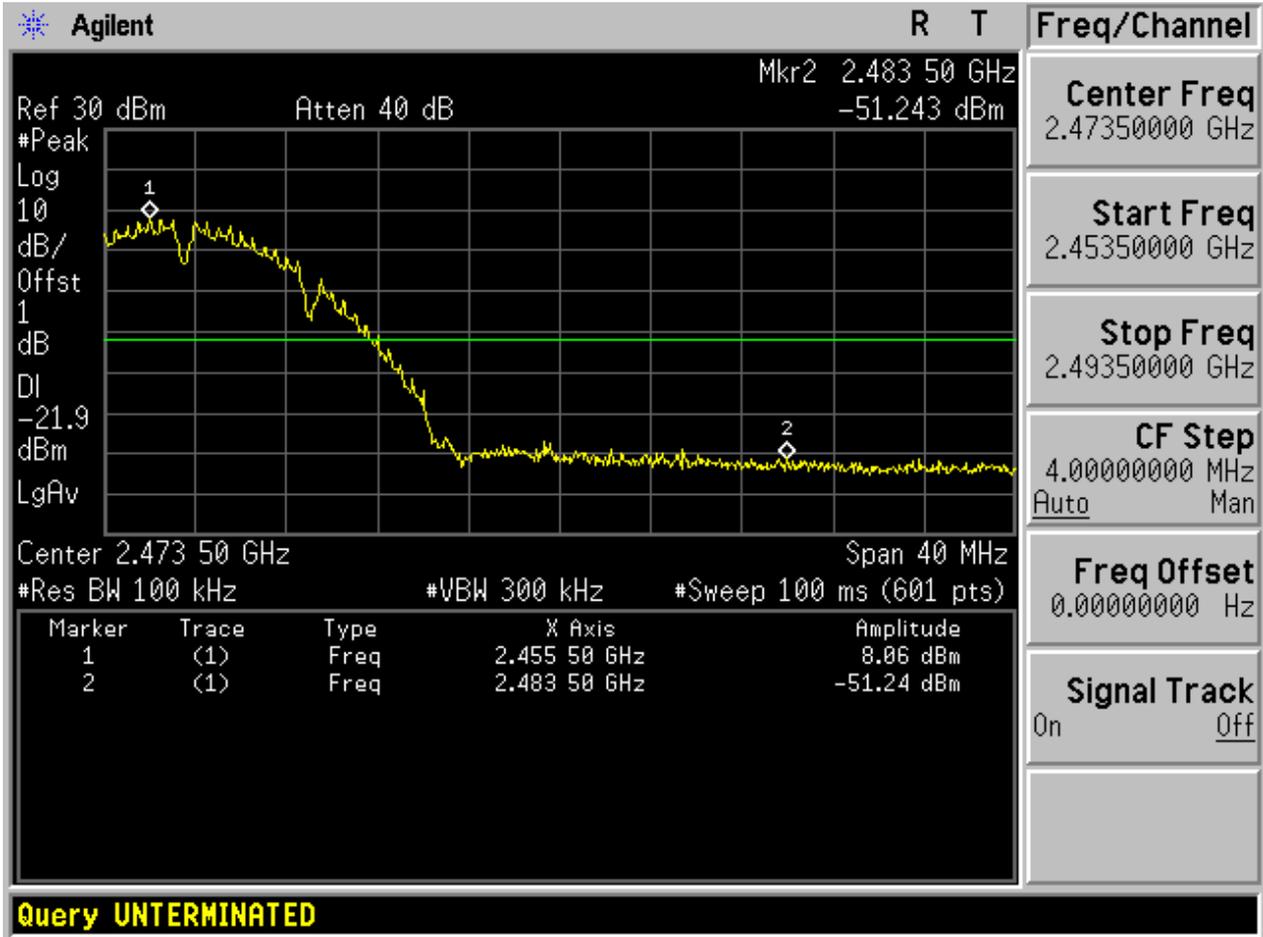




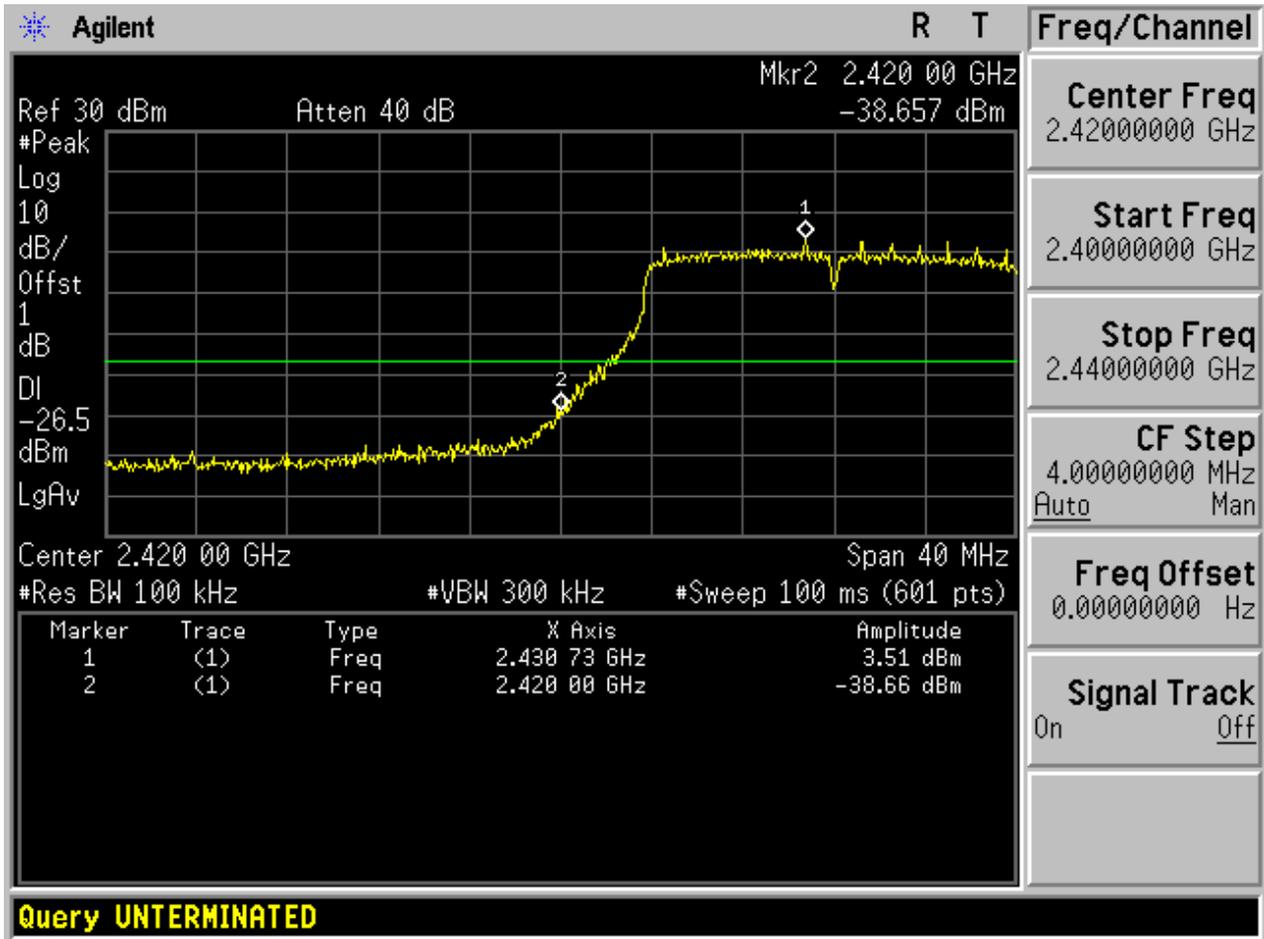
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2.4 11B\_H@Ant 2

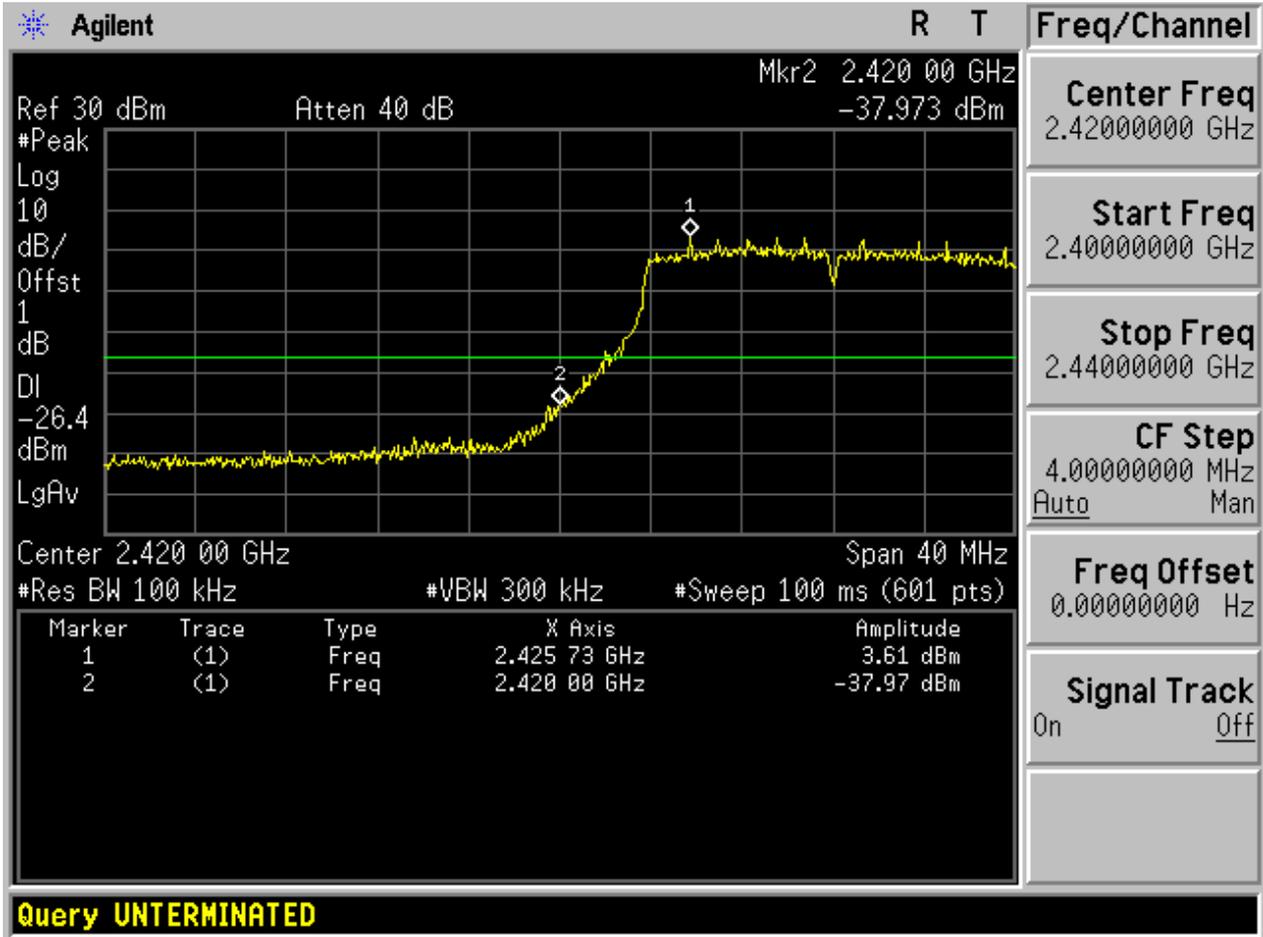


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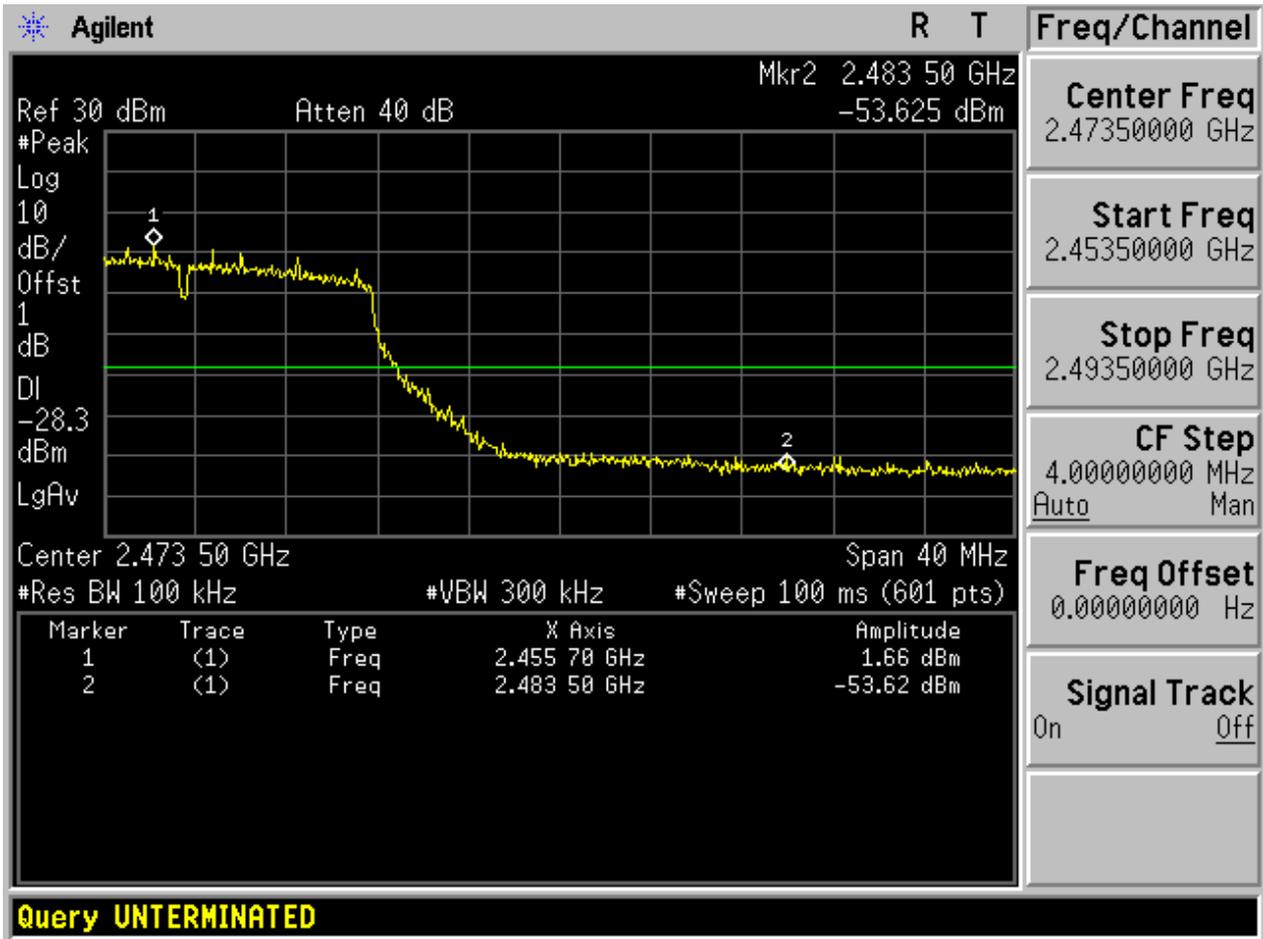


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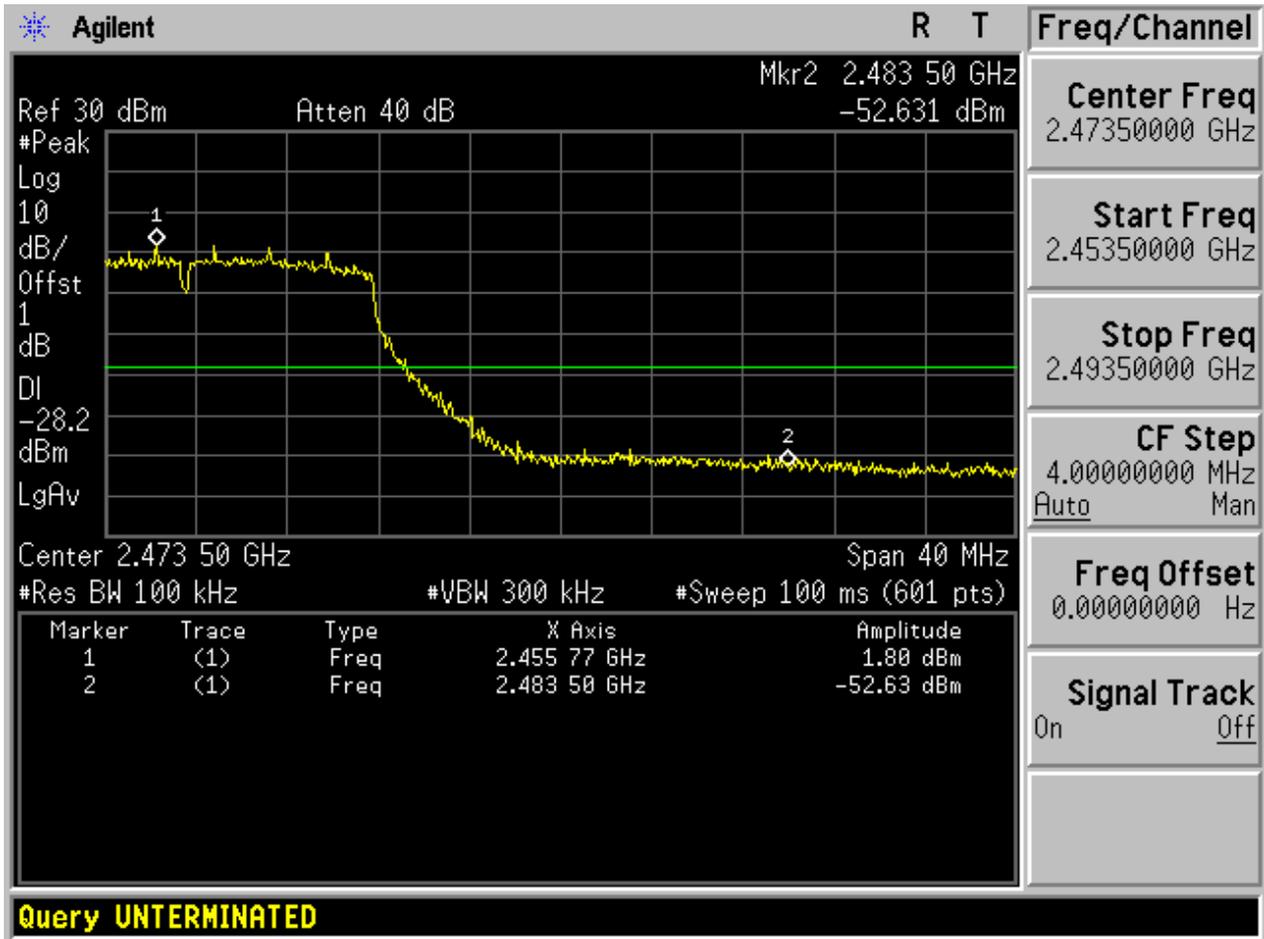




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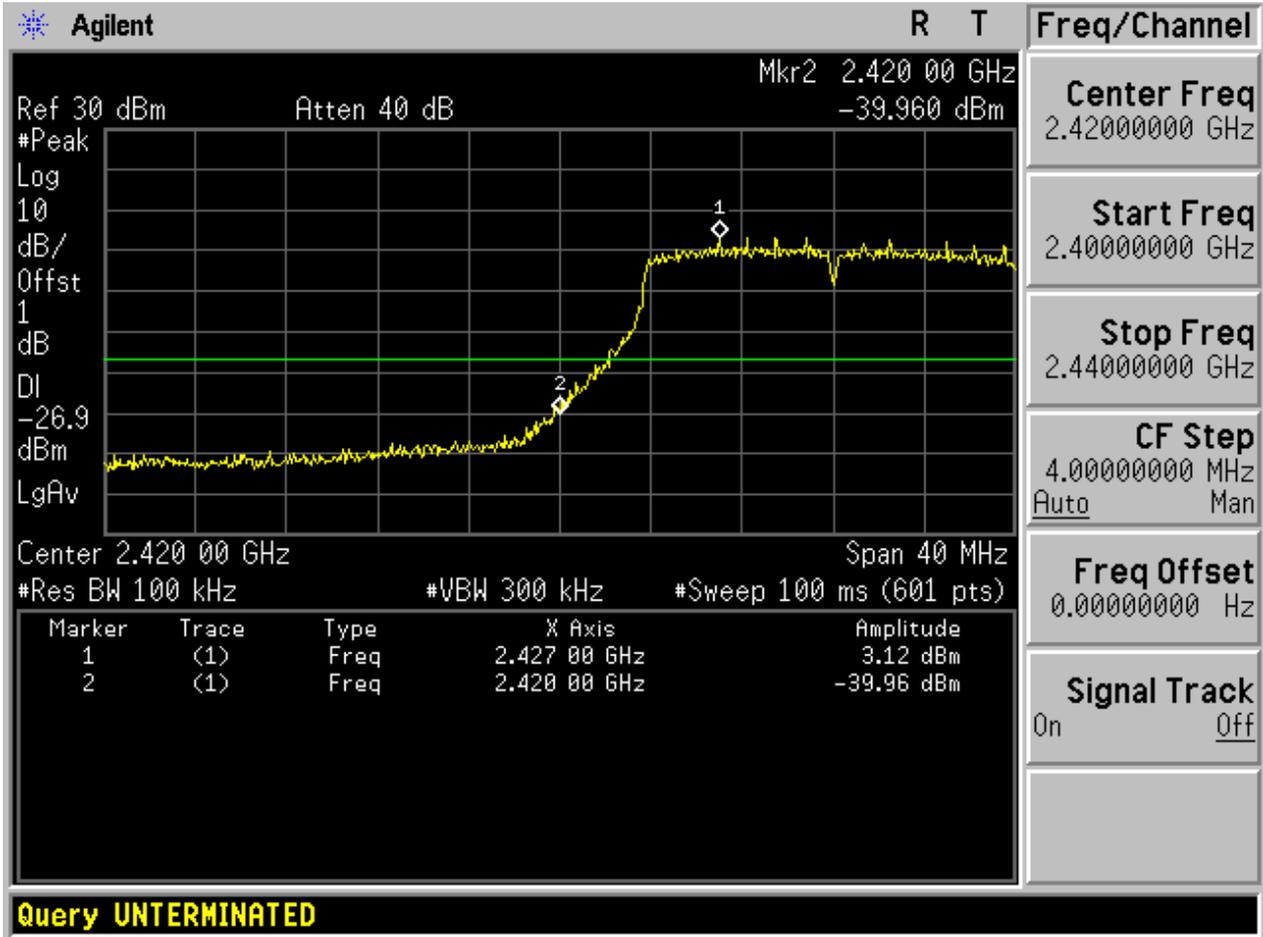


2.9 11G\_H@Ant 2



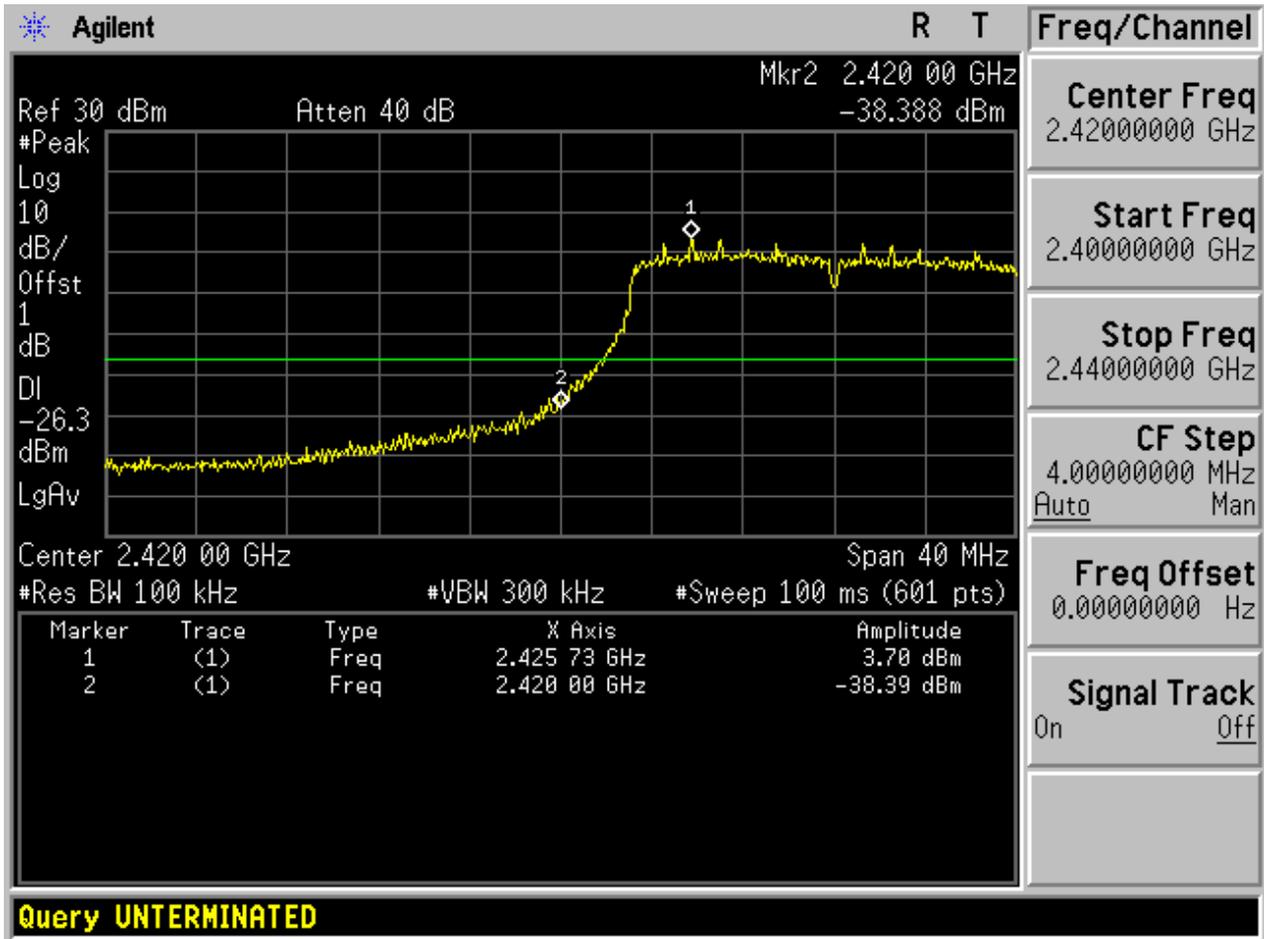


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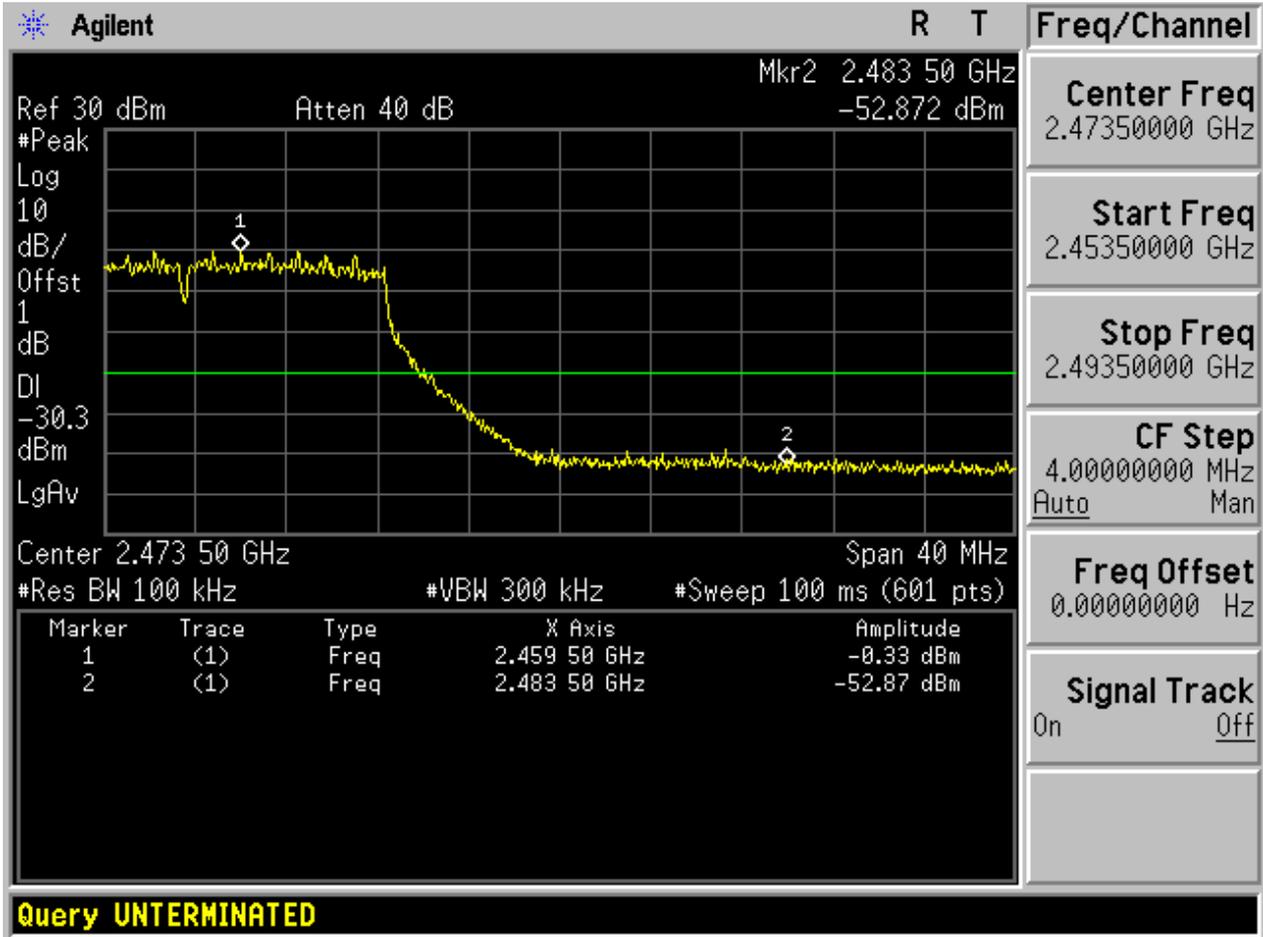


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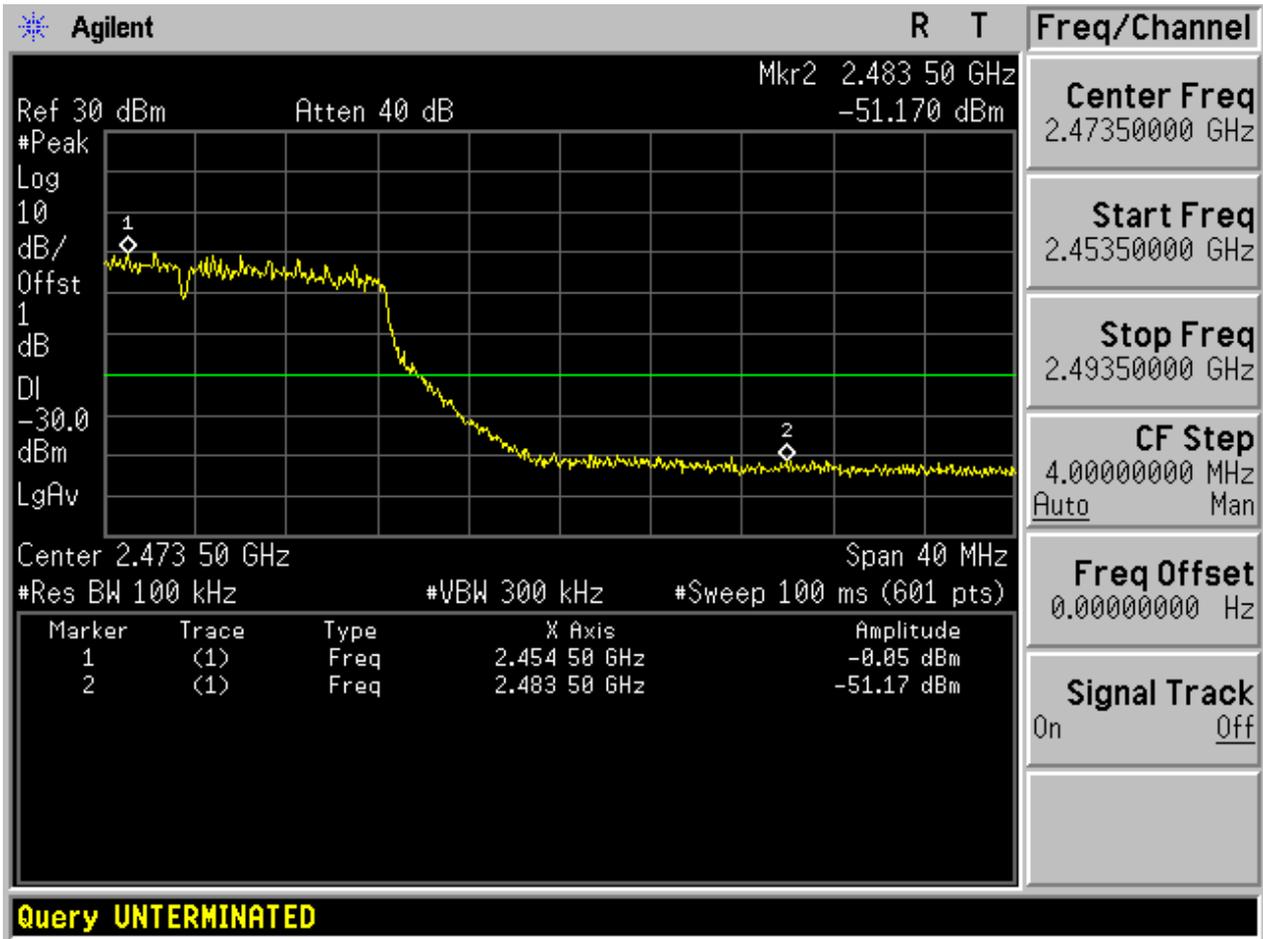


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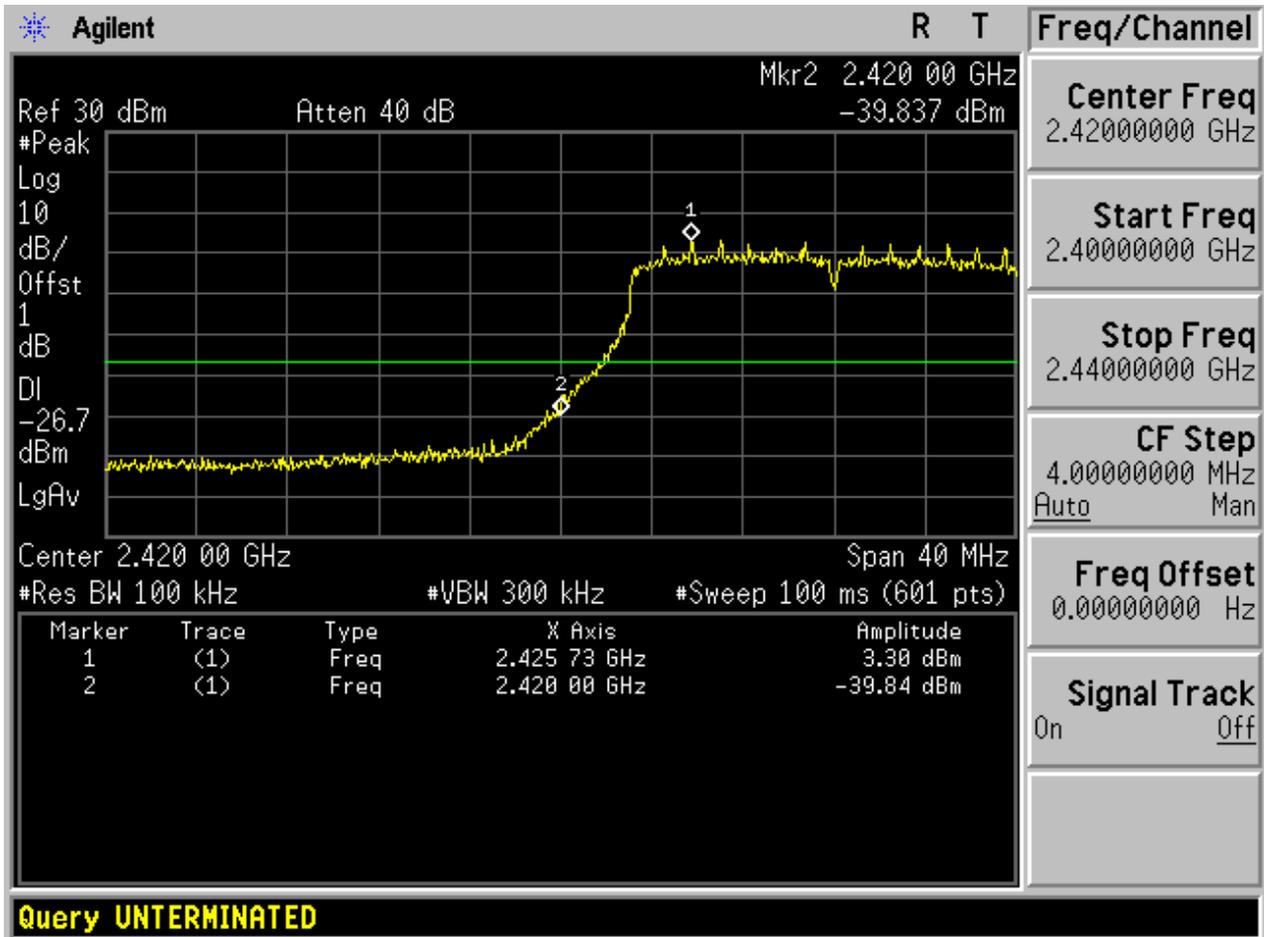




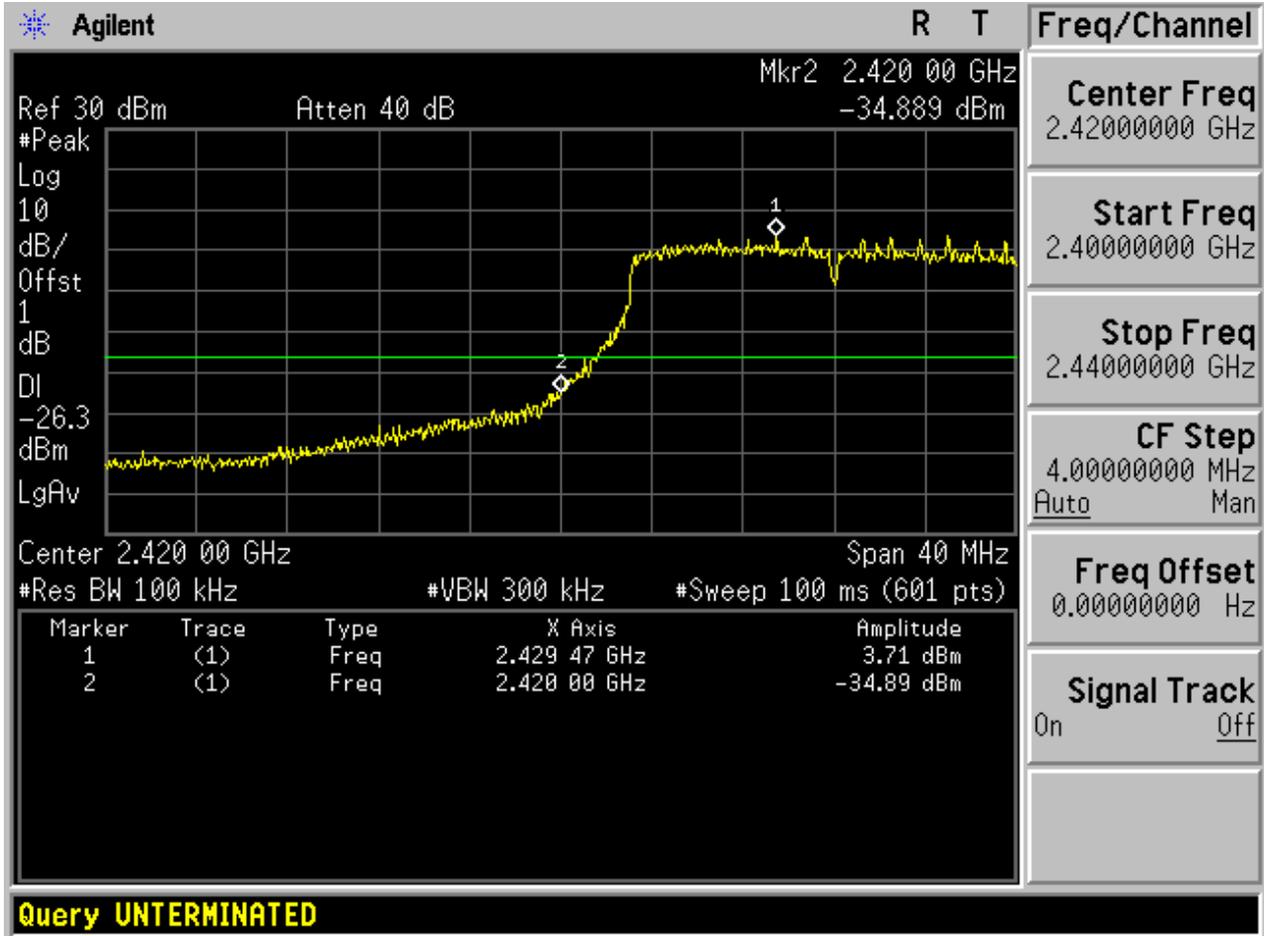
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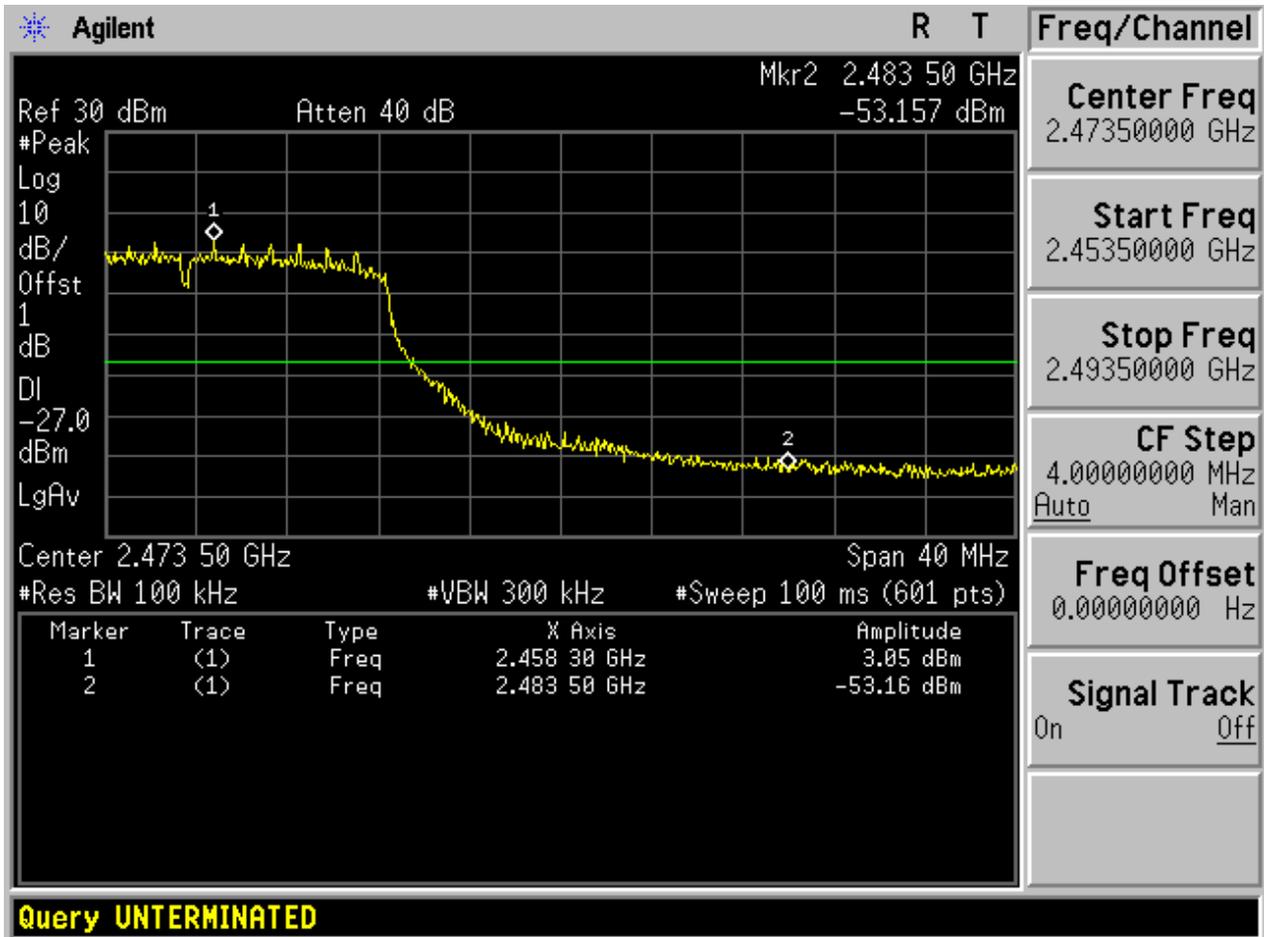
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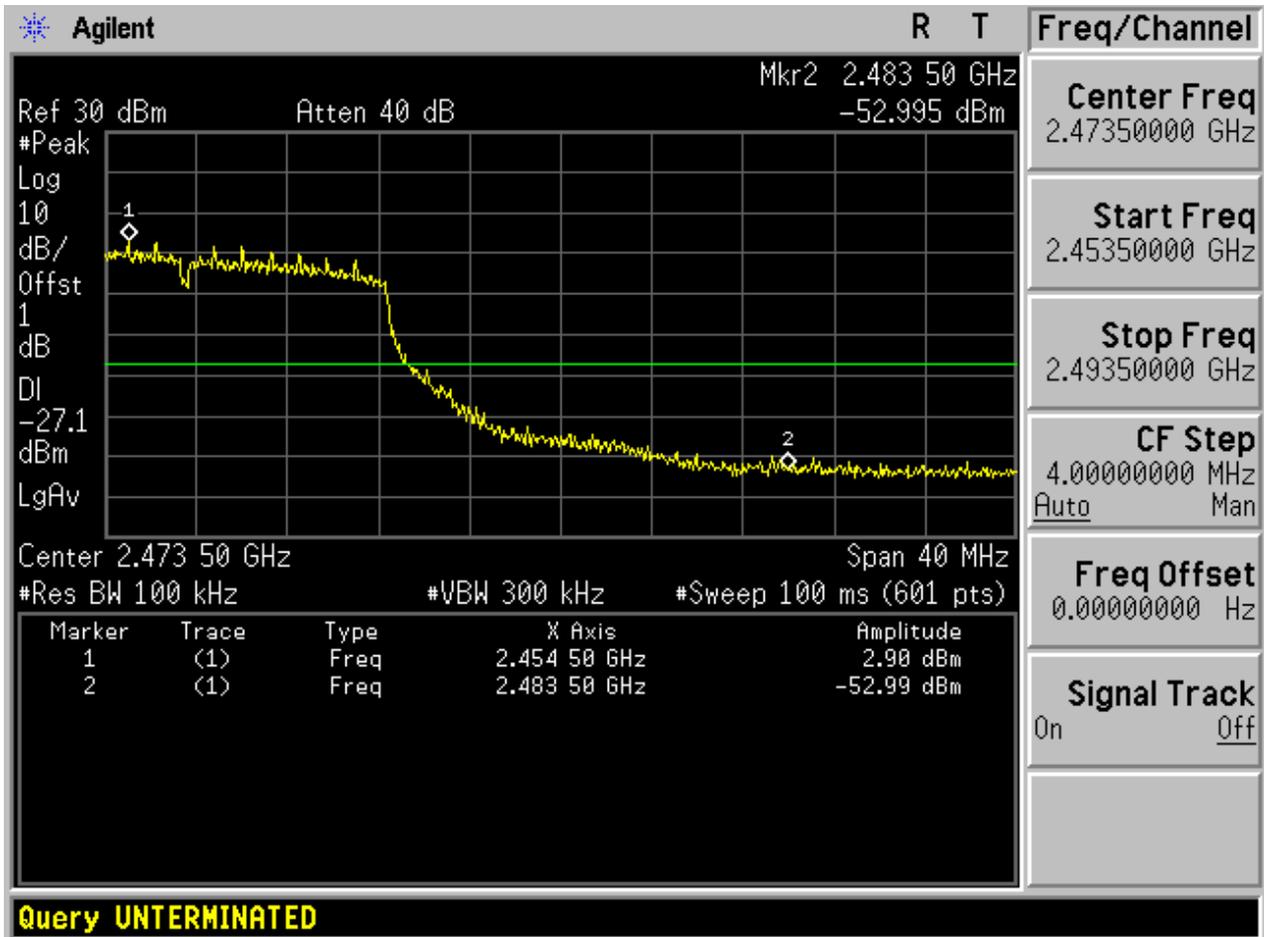
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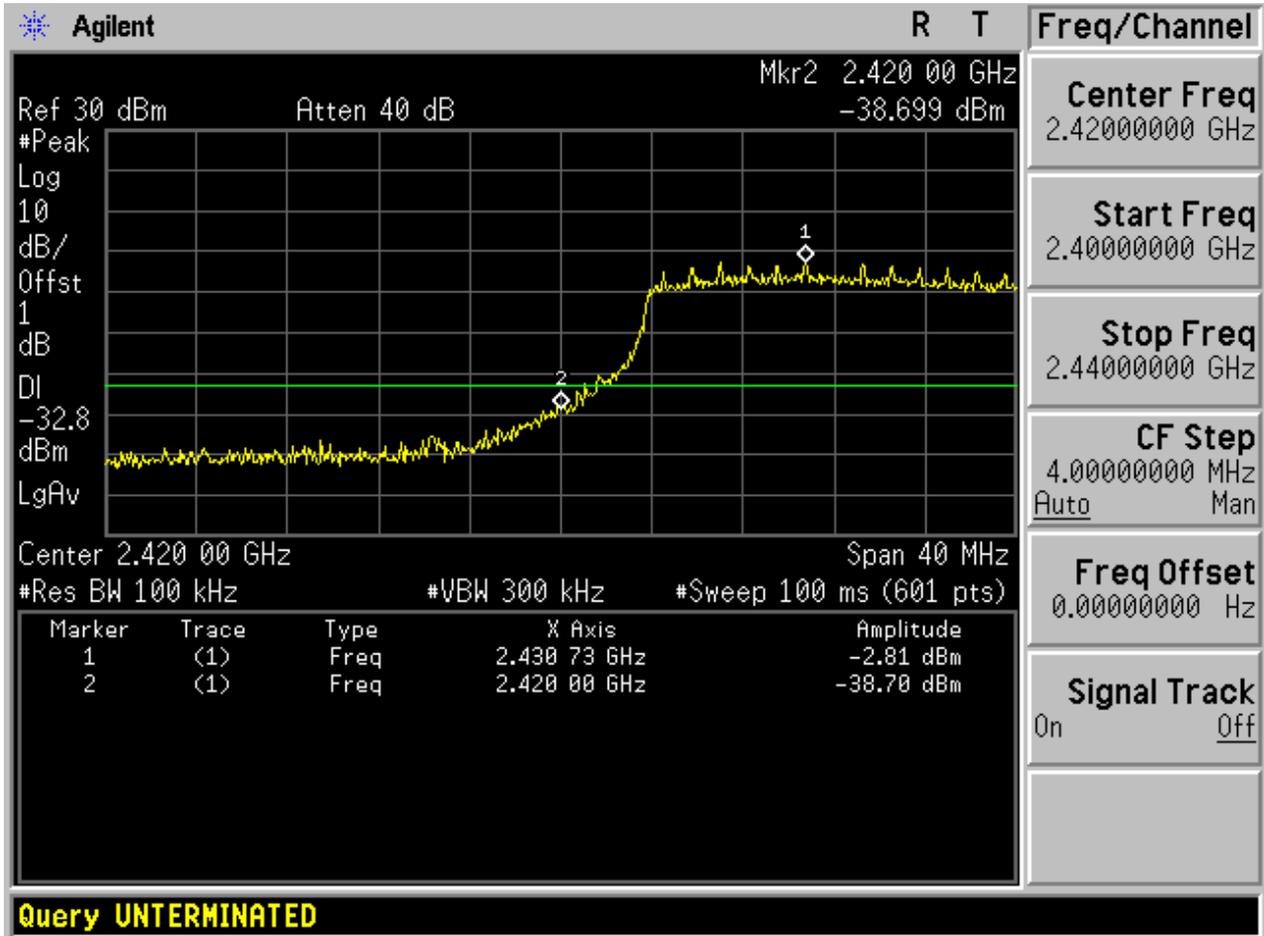
2.16 11N20m\_H@Ant 1



2.17 11N20m\_H@Ant 2

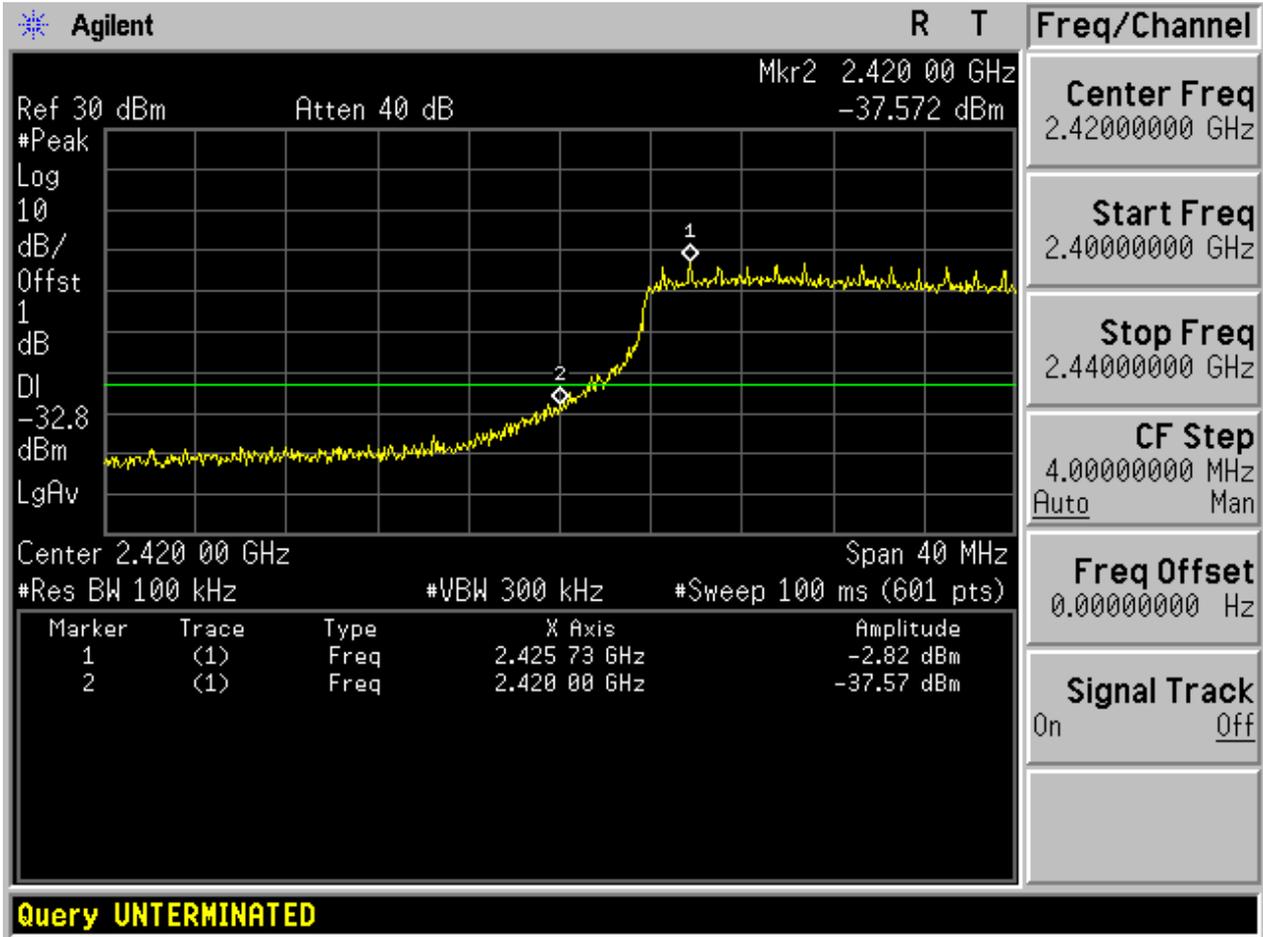


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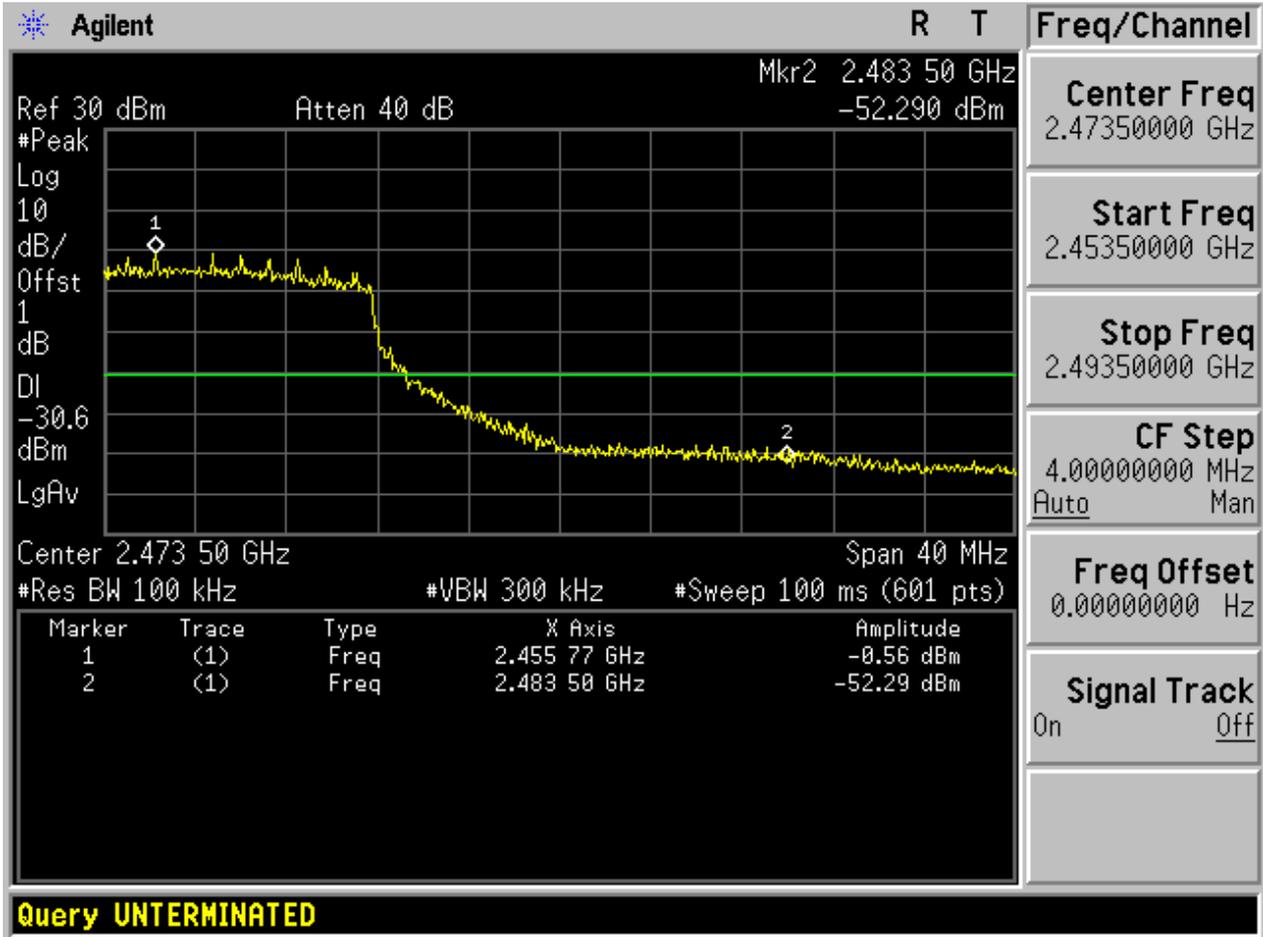


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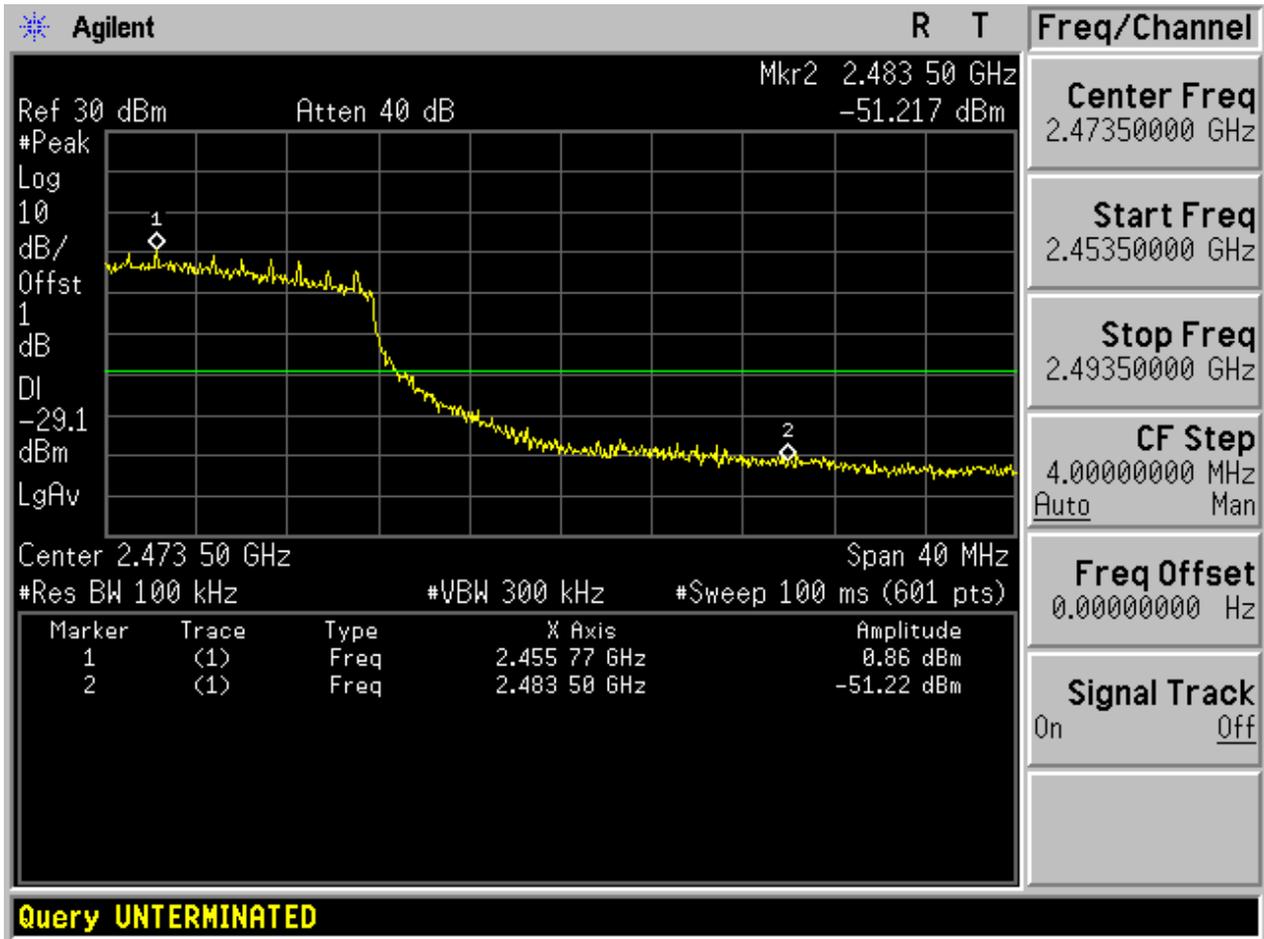




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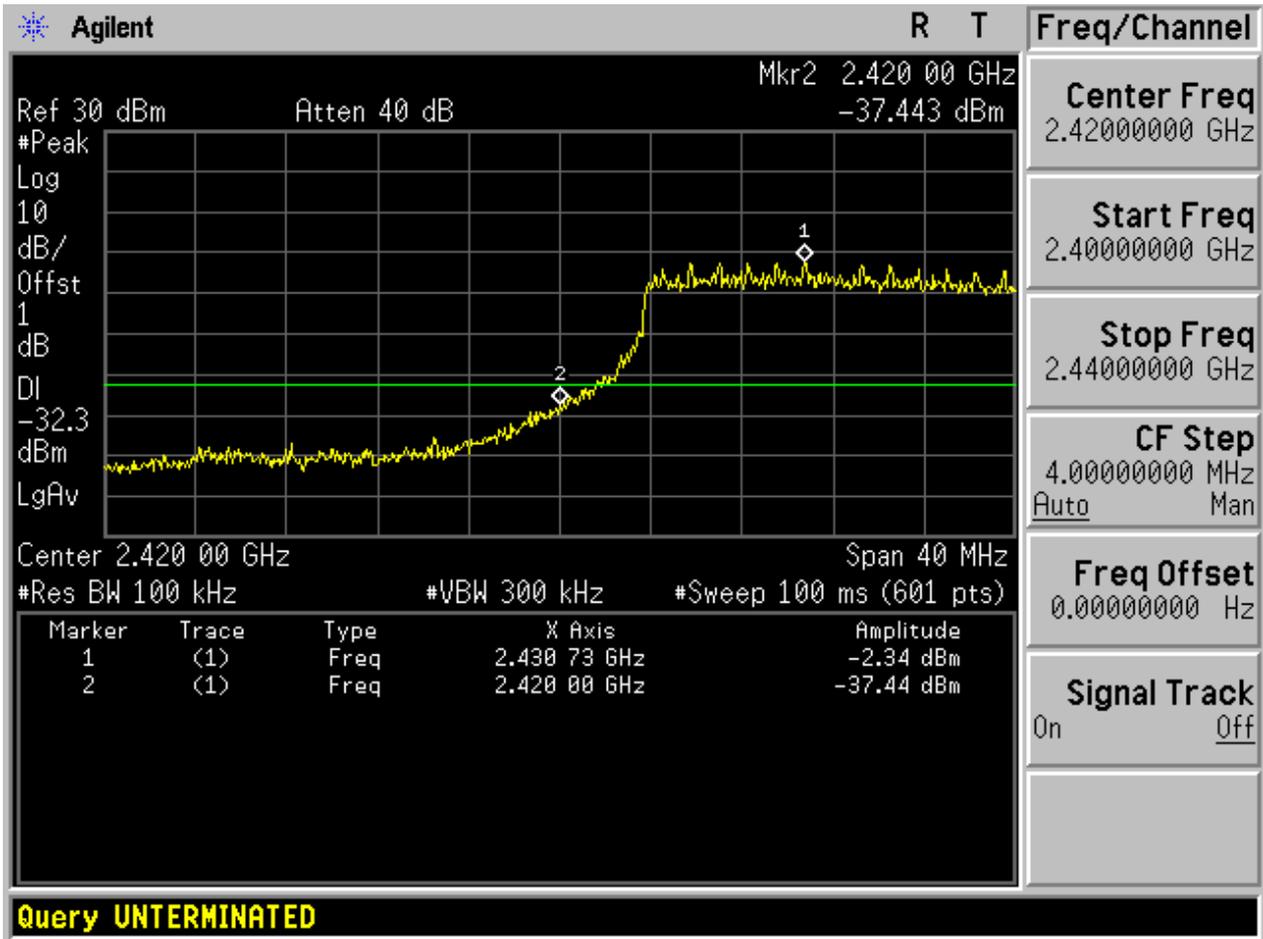


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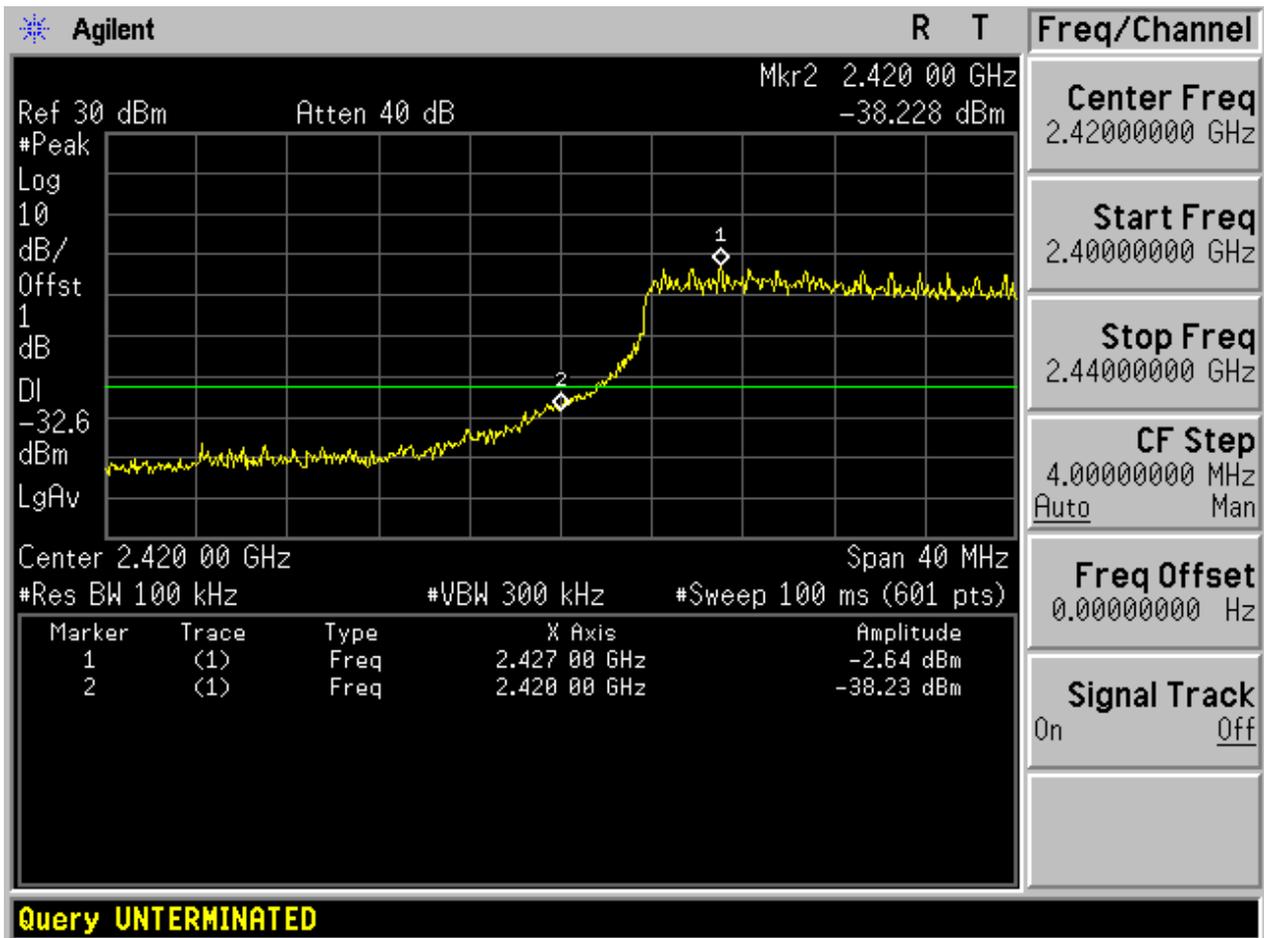




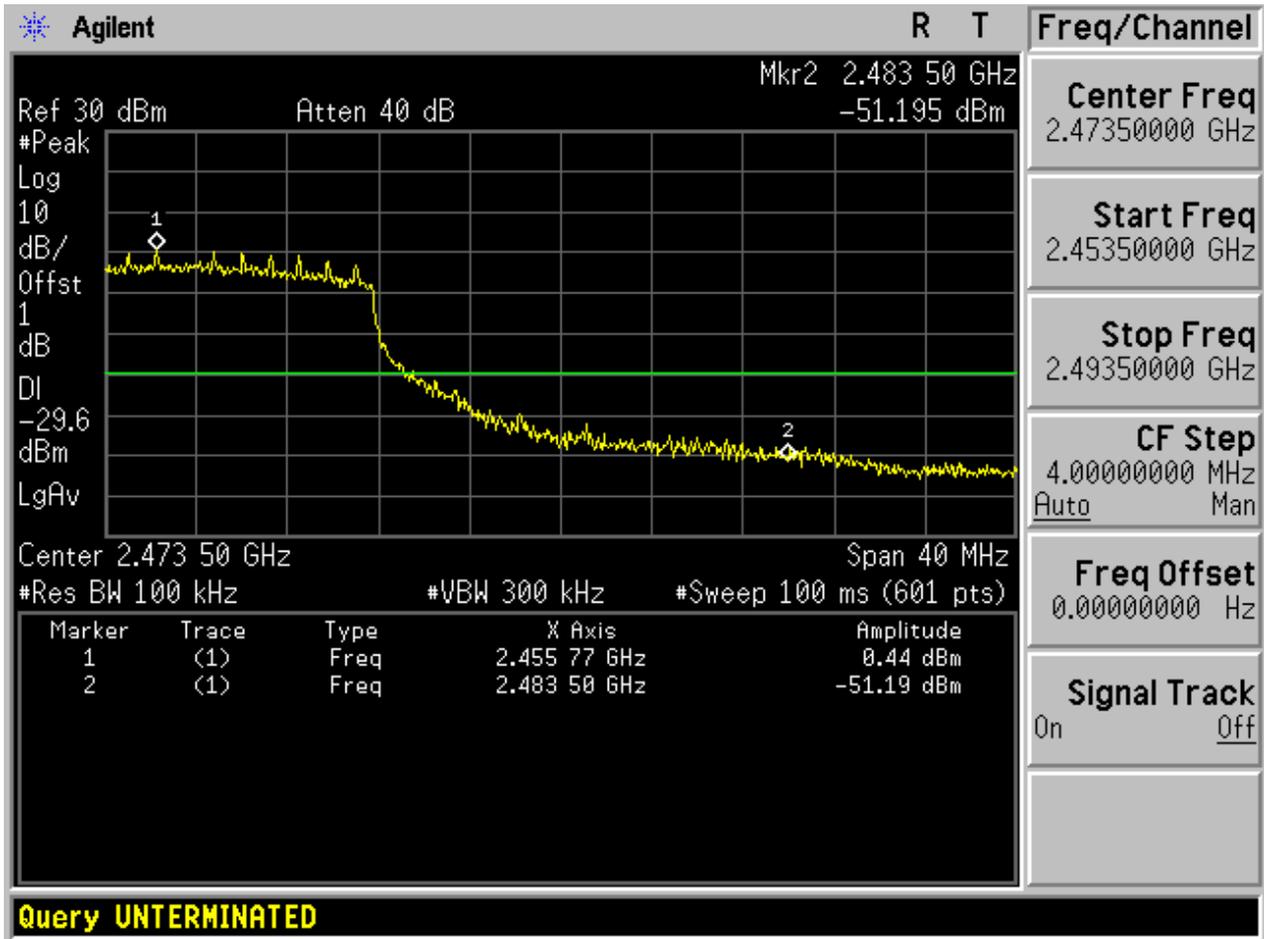
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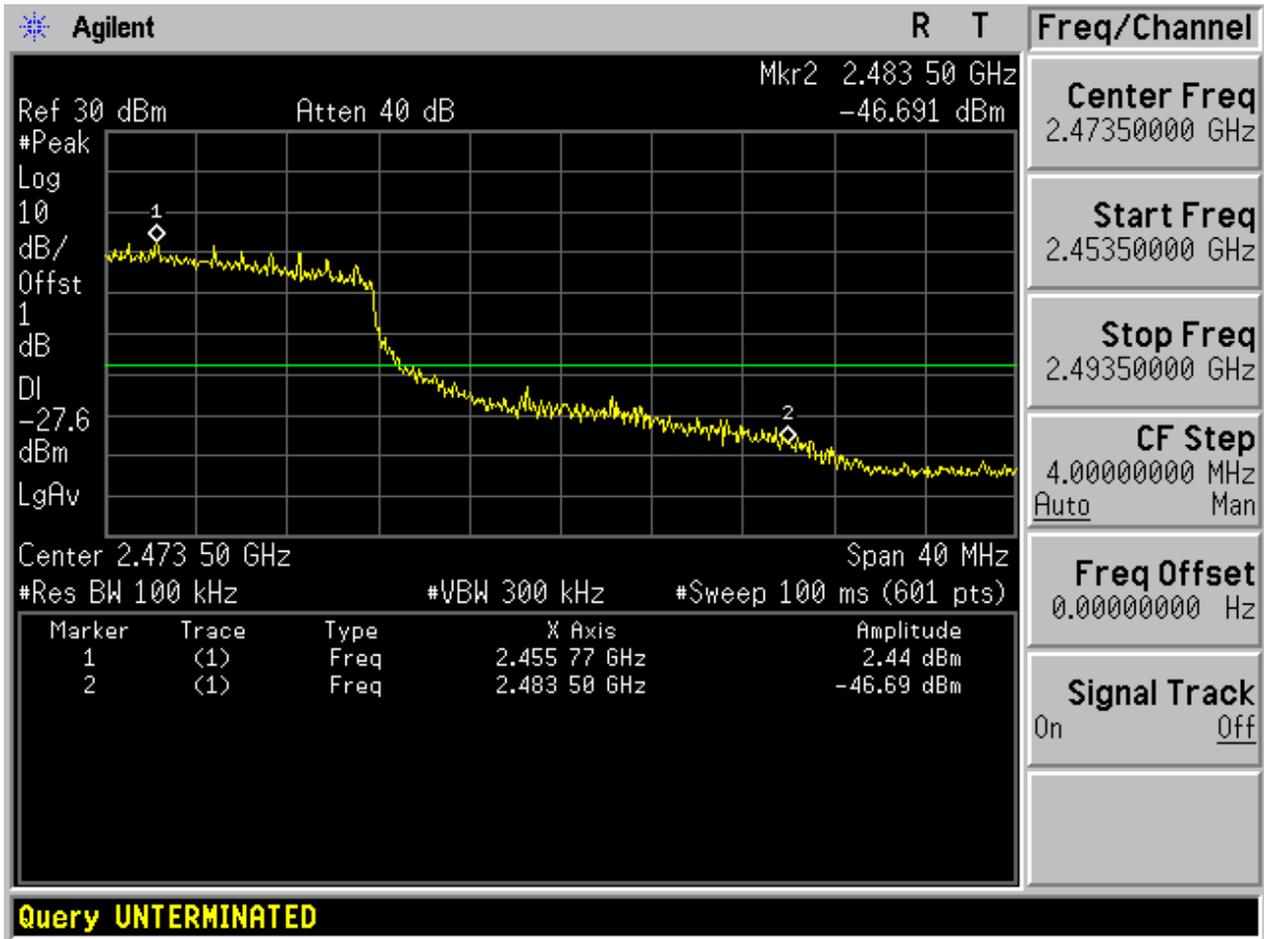
## 2.23 11N40m\_@Ant 2



2.24 11N40m\_H@Ant 1



2.25 11N40m\_H@Ant 2



## Appendix F: 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]-30[dBm], see test plots for detailed".

### Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Pref[dBm]	Puw[dBm]	Verdict
11B	L	2432	Ant 1	9.03	<limit	pass
11B	L	2432	Ant 2	7.88	<limit	pass
11B	M	2442	Ant 1	8.61	<limit	pass
11B	M	2442	Ant 2	7.91	<limit	pass
11B	H	2457	Ant 1	8.58	<limit	pass
11B	H	2457	Ant 2	8.70	<limit	pass
11G	L	2432	Ant 2	4.40	<limit	pass
11G	L	2432	Ant 1	4.33	<limit	pass
11G	M	2442	Ant 2	0.85	<limit	pass
11G	M	2442	Ant 1	2.08	<limit	pass
11G	H	2457	Ant 2	2.21	<limit	pass
11G	H	2457	Ant 1	2.96	<limit	pass
11N20	L	2432	Ant 1	3.05	<limit	pass
11N20	L	2432	Ant 2	3.41	<limit	pass
11N20	M	2442	Ant 1	1.55	<limit	pass
11N20	M	2442	Ant 2	0.07	<limit	pass
11N20	H	2457	Ant 1	1.04	<limit	pass



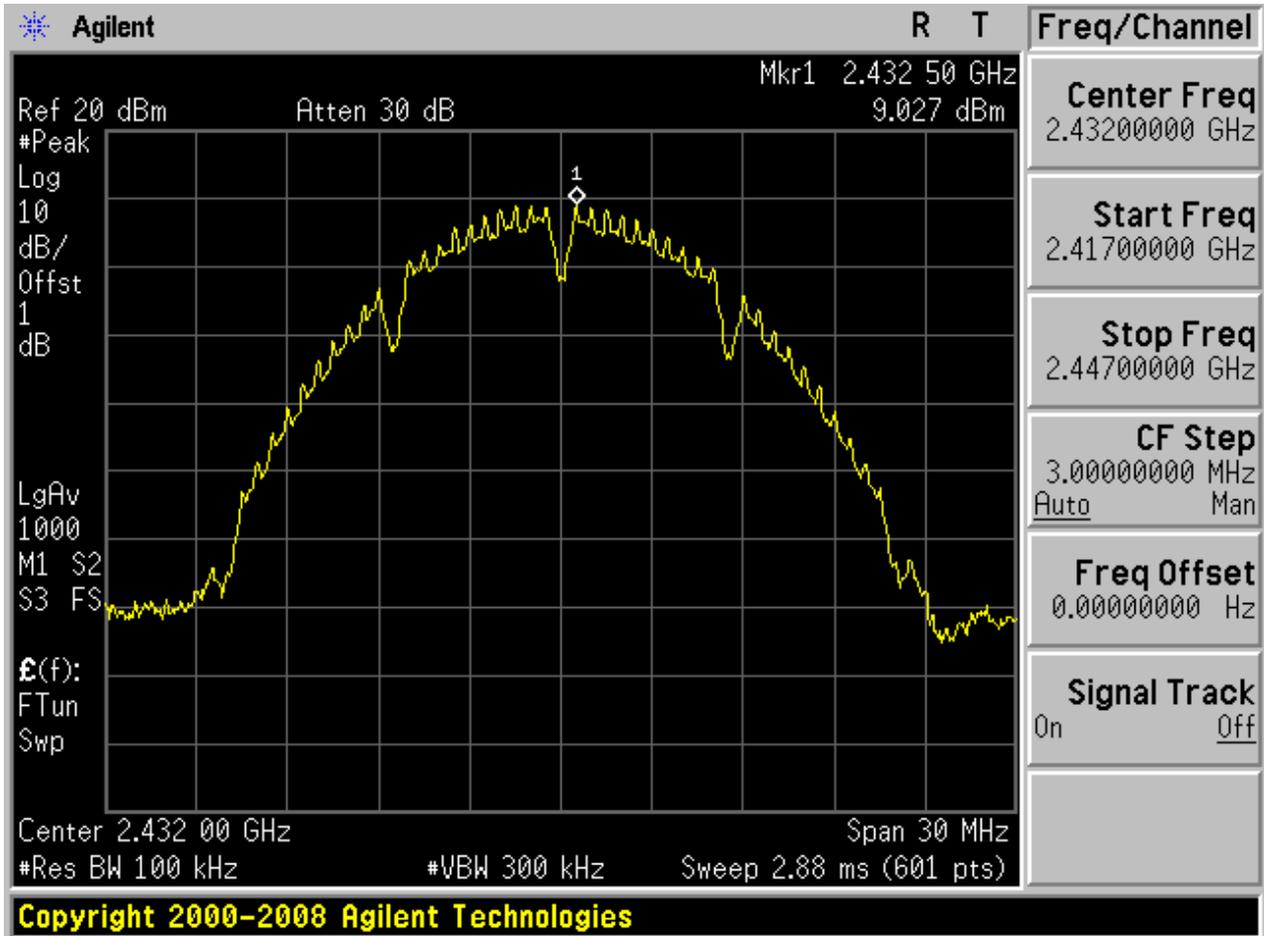
Test Mode	Test Channel	Frequency[MHz]	Ant	Pref[dBm]	Puw[dBm]	Verdict
11N20	H	2457	Ant 2	1.38	<limit	pass
11N20m	L	2432	Ant 1	3.46	<limit	pass
11N20m	L	2432	Ant 2	5.89	<limit	pass
11N20m	M	2442	Ant 1	2.68	<limit	pass
11N20m	M	2442	Ant 2	4.13	<limit	pass
11N20m	H	2457	Ant 1	3.55	<limit	pass
11N20m	H	2457	Ant 2	4.14	<limit	pass
11N40	L	2442	Ant 1	-1.79	<limit	pass
11N40	L	2442	Ant 2	-1.22	<limit	pass
11N40	H	2447	Ant 1	0.09	<limit	pass
11N40	H	2447	Ant 2	0.87	<limit	pass
11N40m	L	2442	Ant 1	0.77	<limit	pass
11N40m	L	2442	Ant 2	2.09	<limit	pass
11N40m	H	2447	Ant 1	1.18	<limit	pass
11N40m	H	2447	Ant 2	3.36	<limit	pass



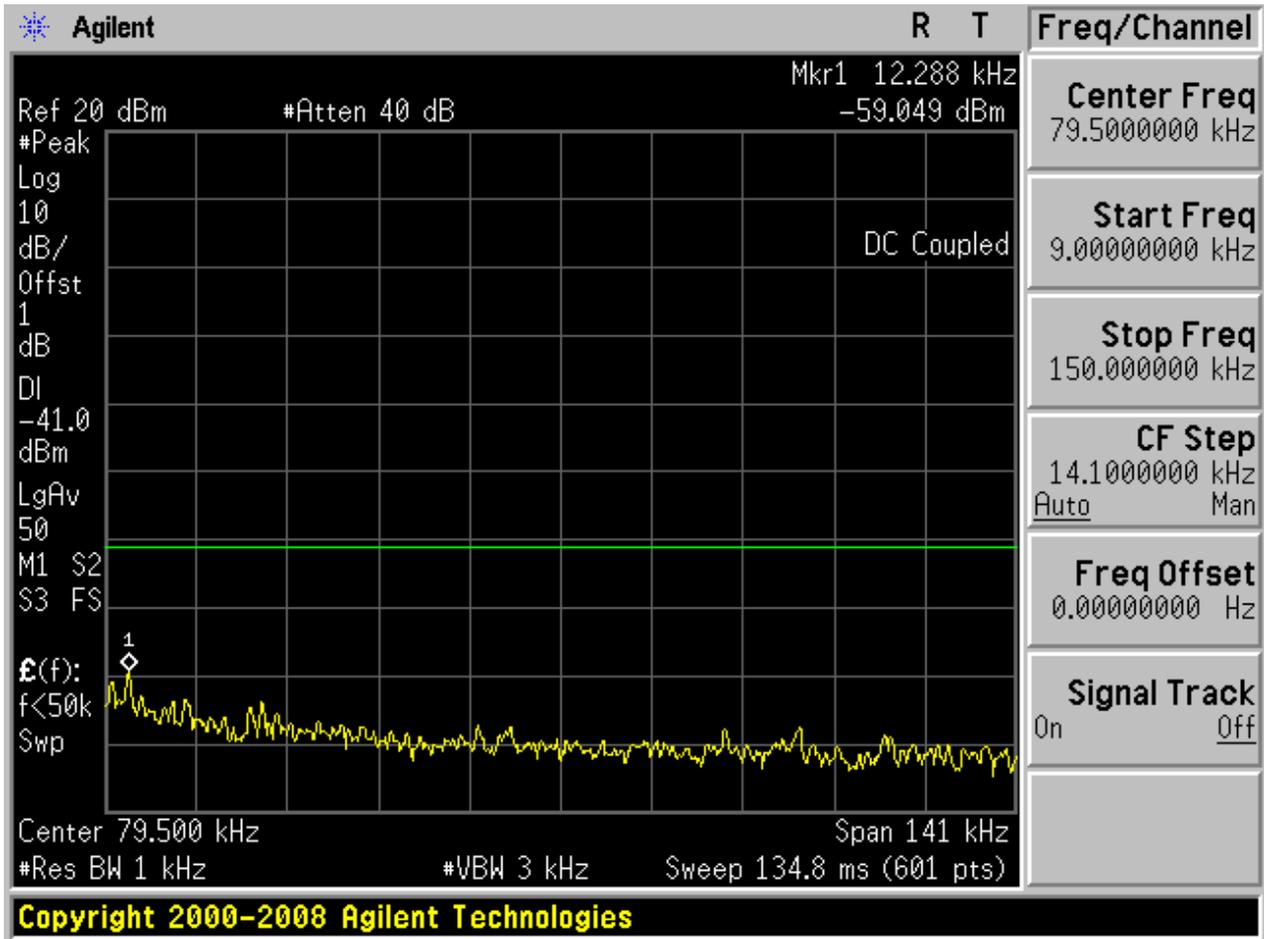
Part II - Test Plots

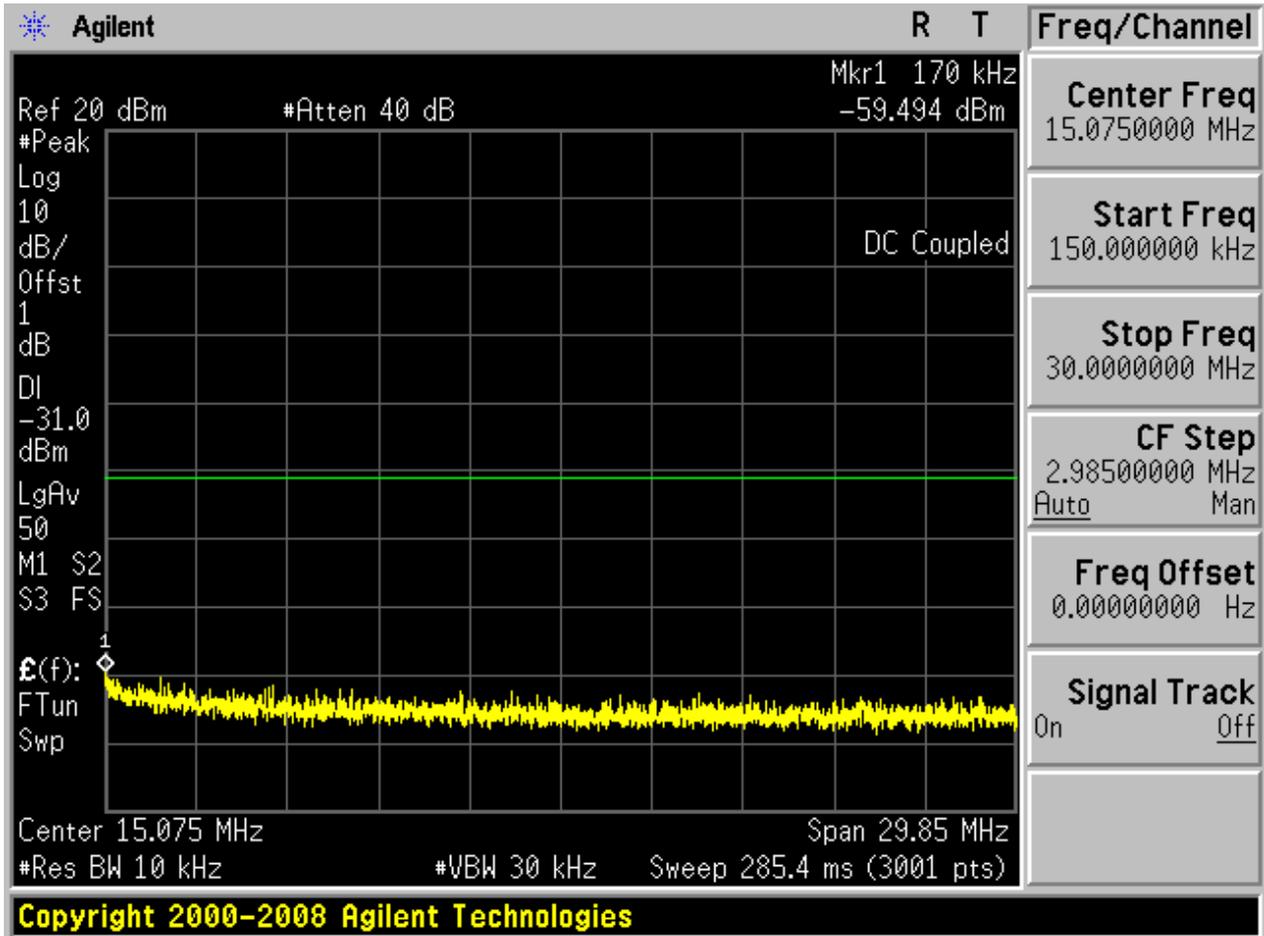
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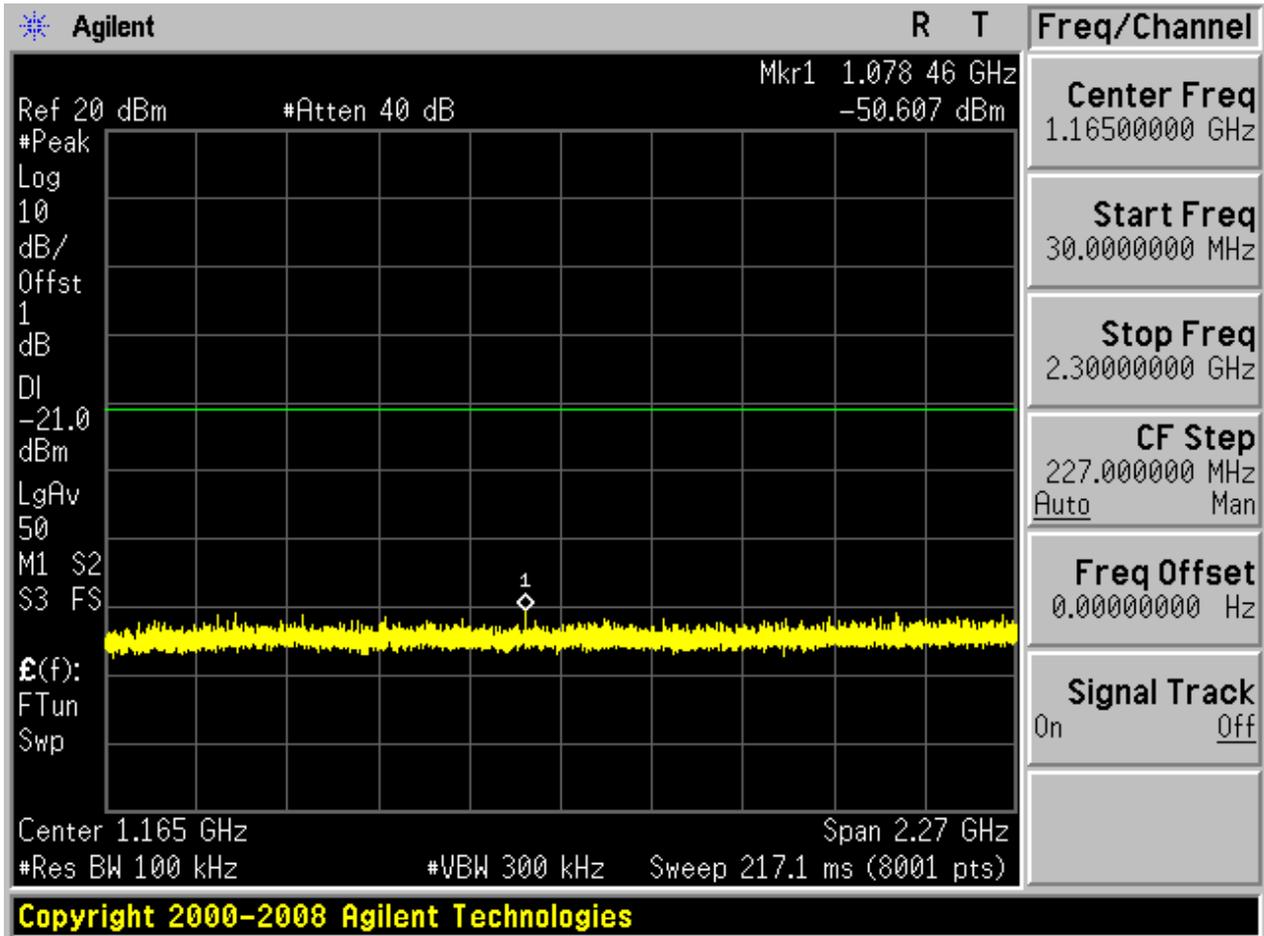
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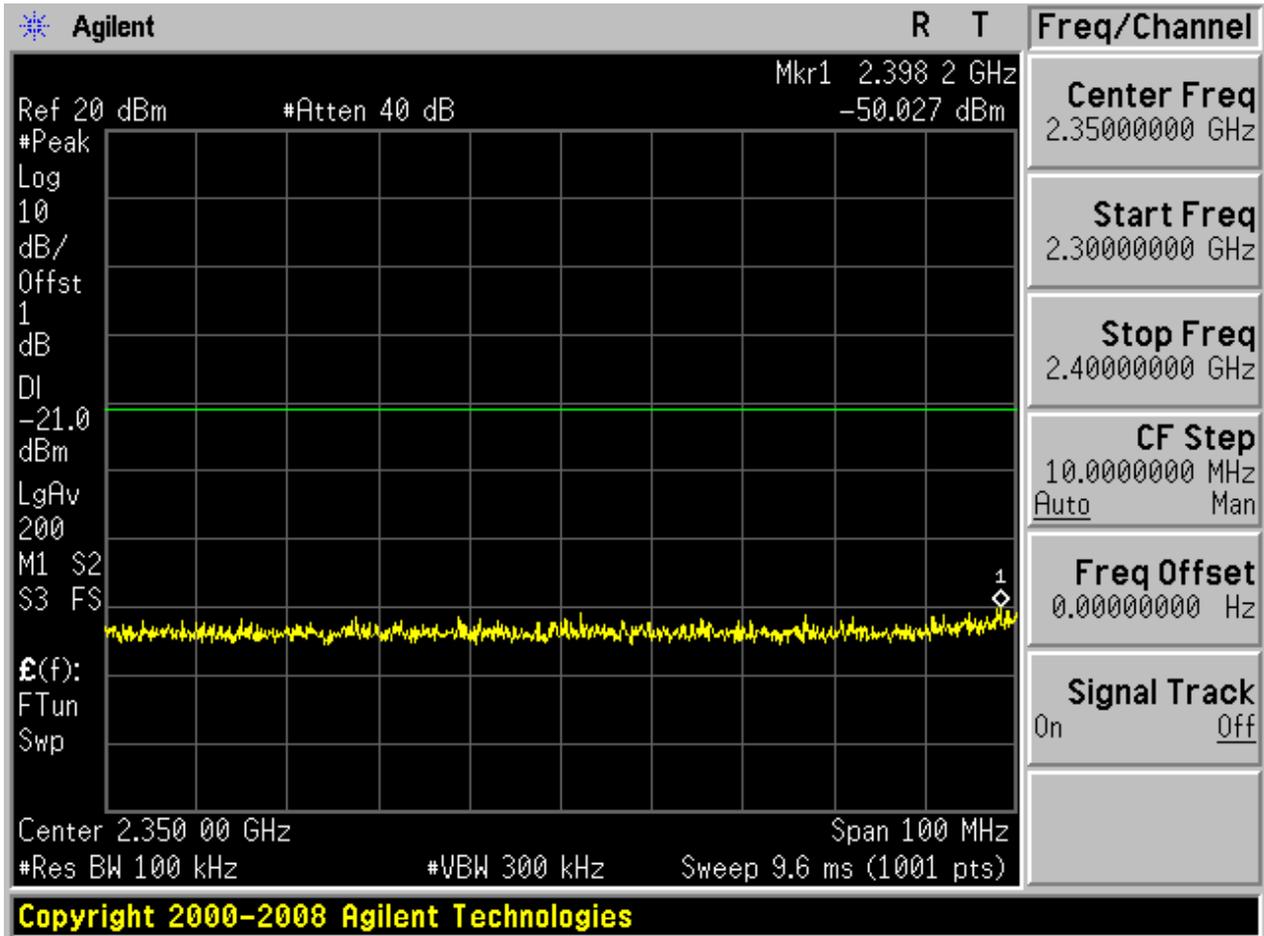


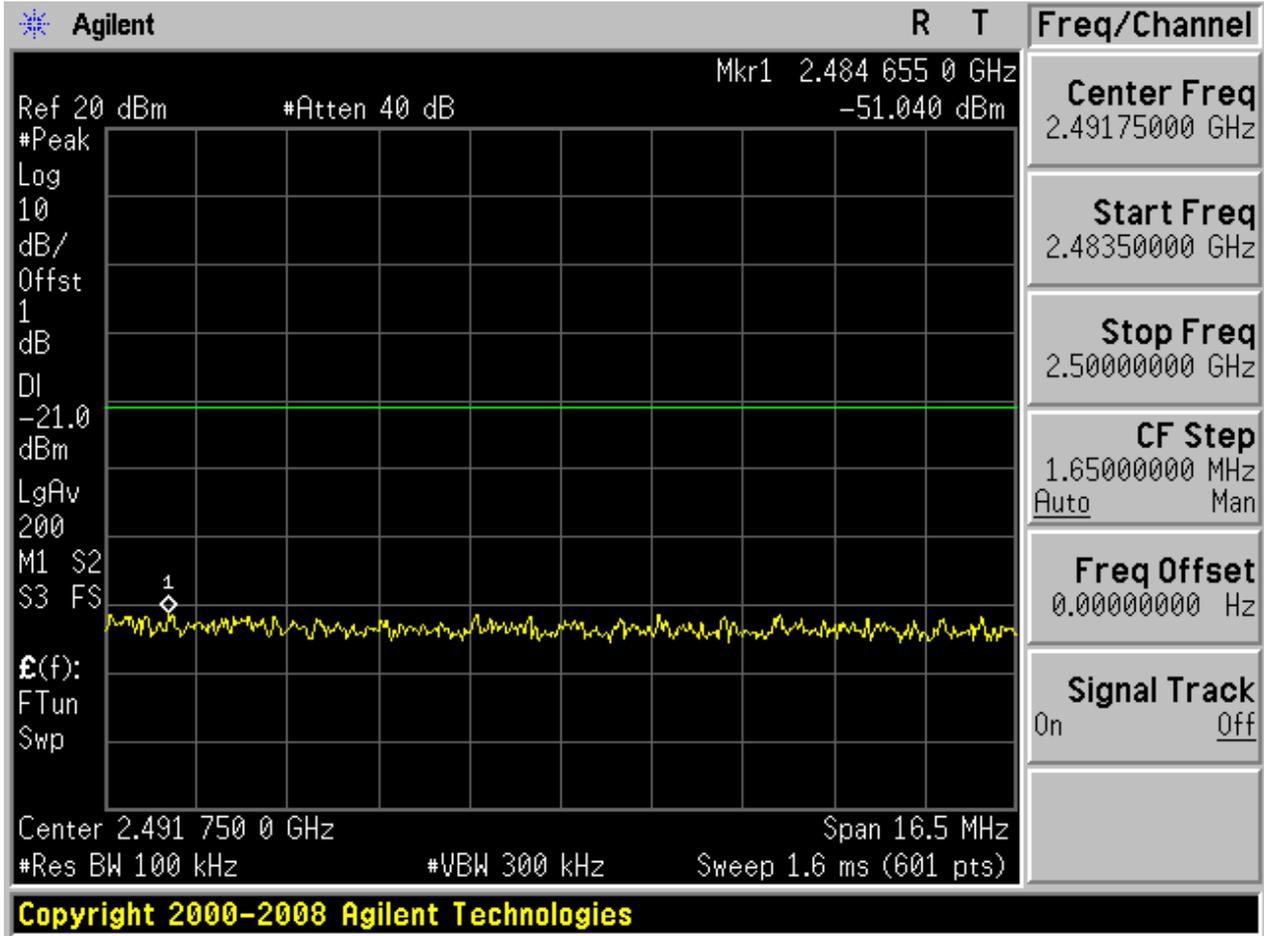
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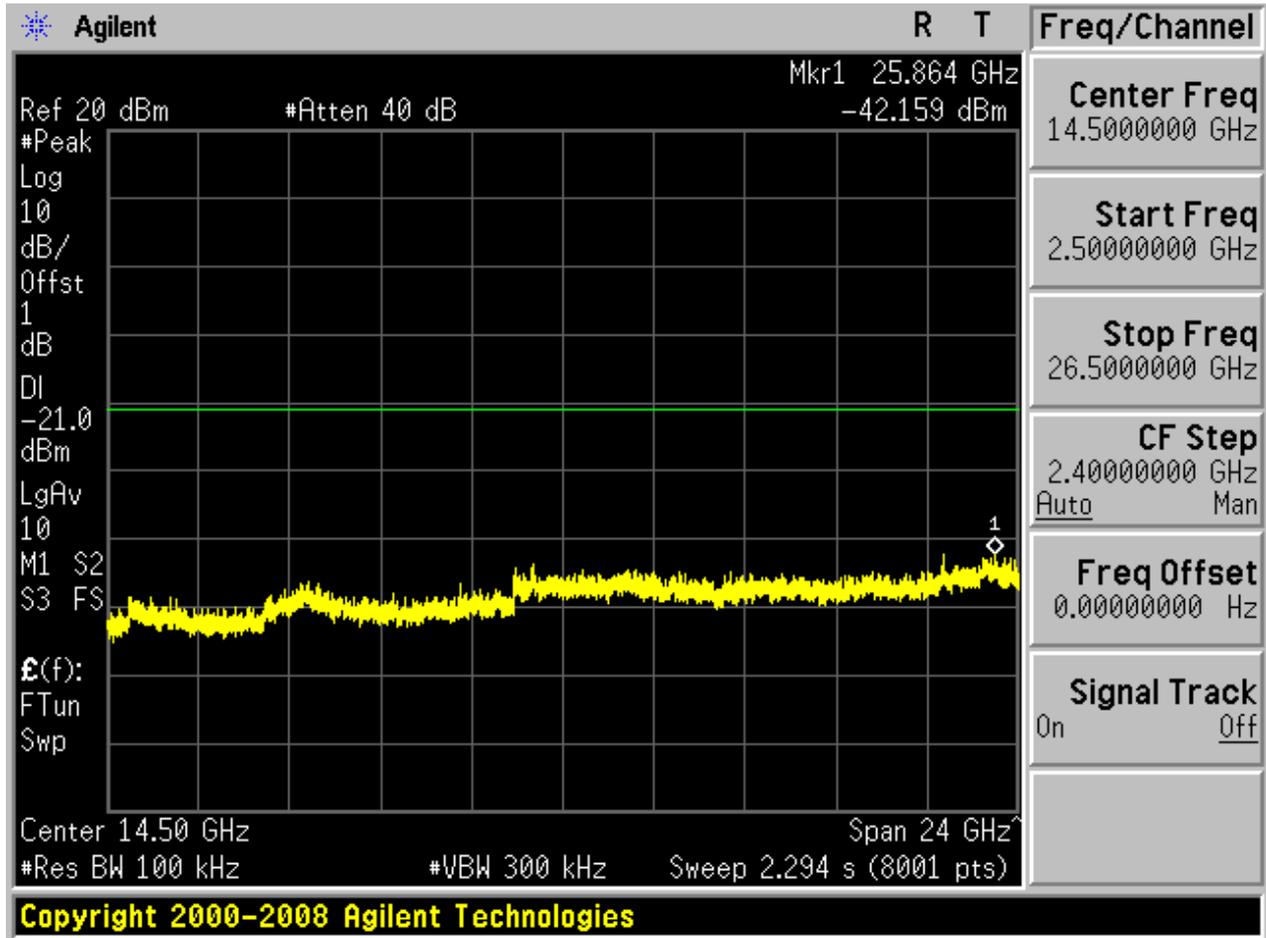






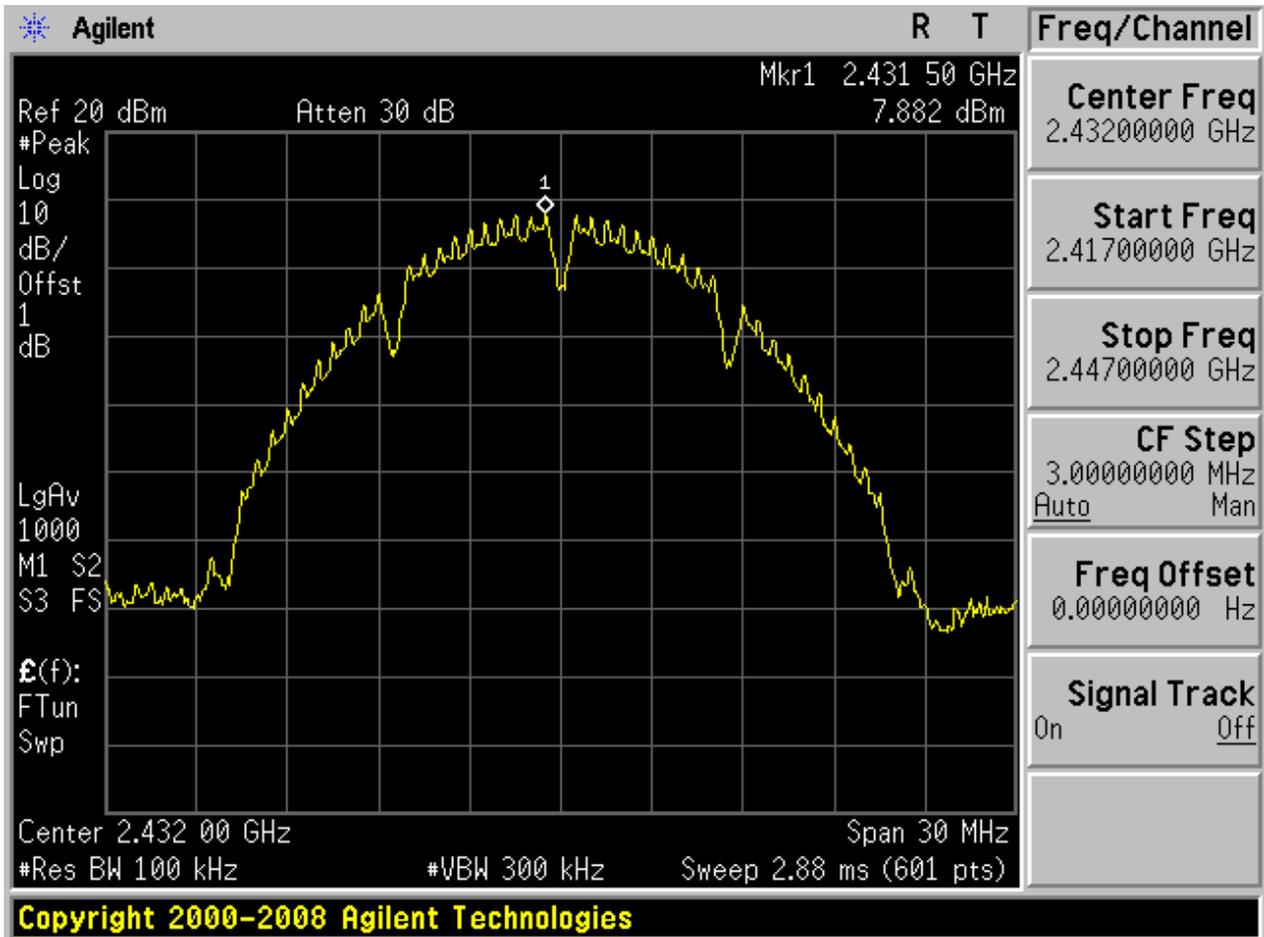






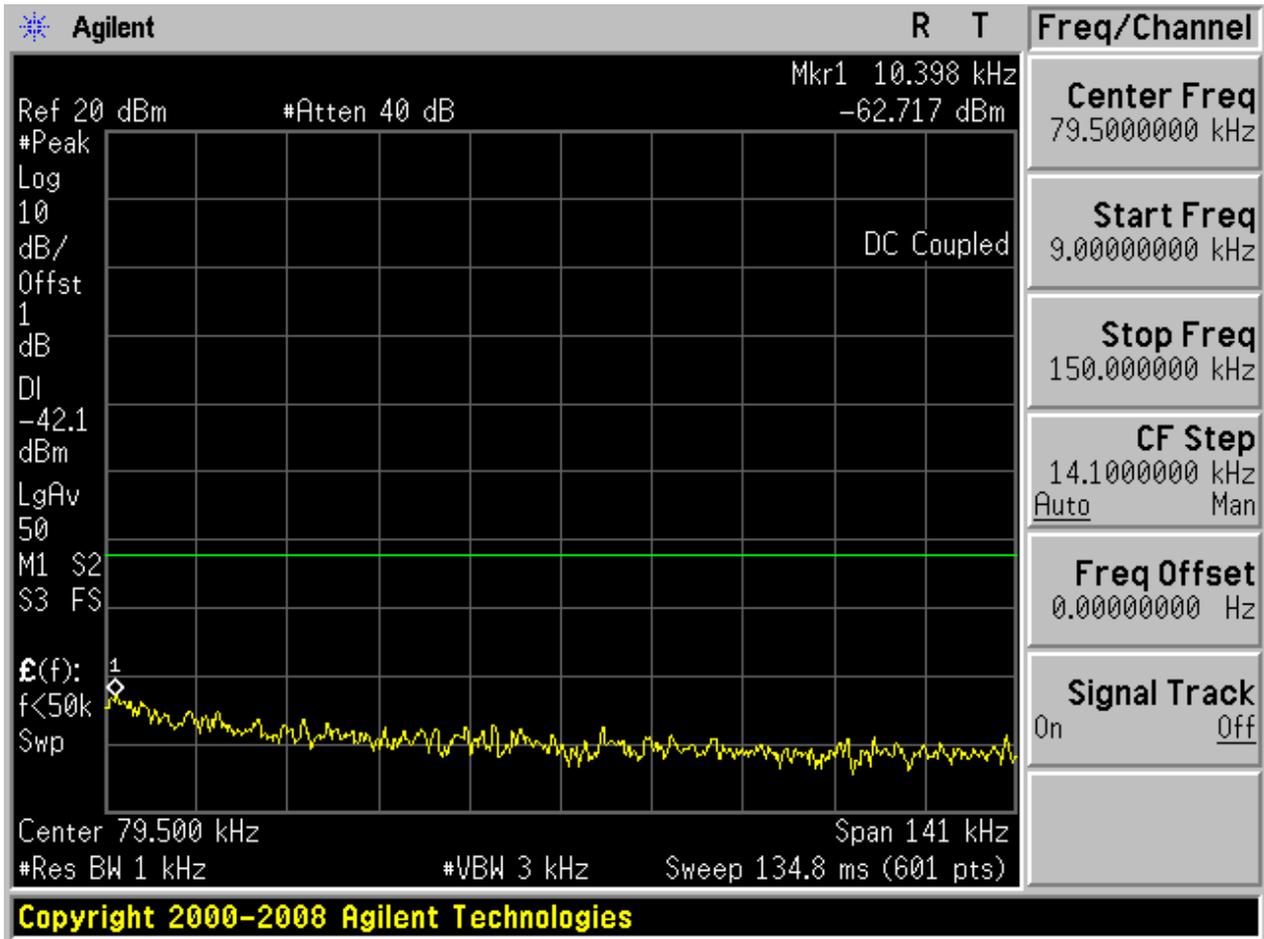
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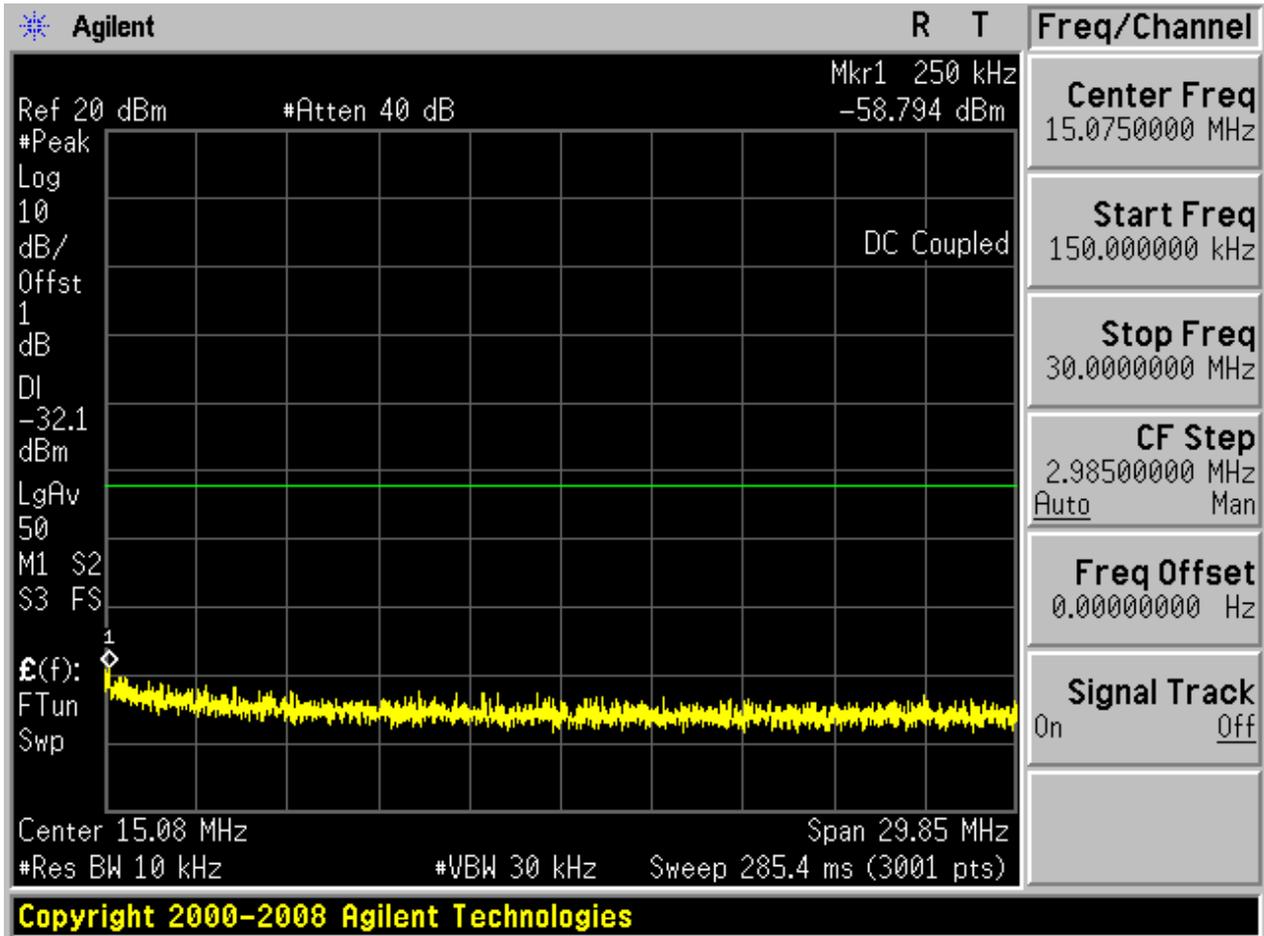
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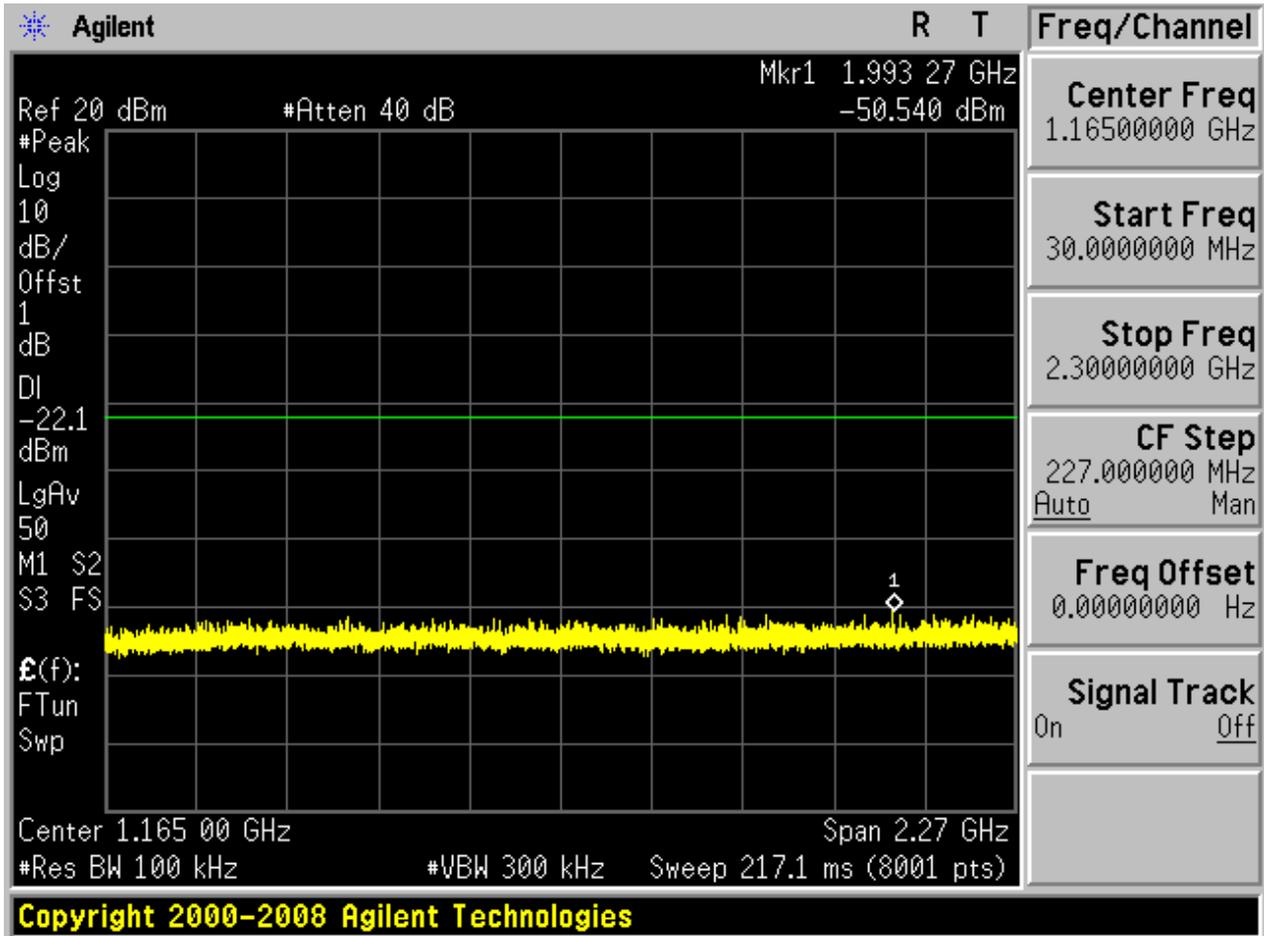


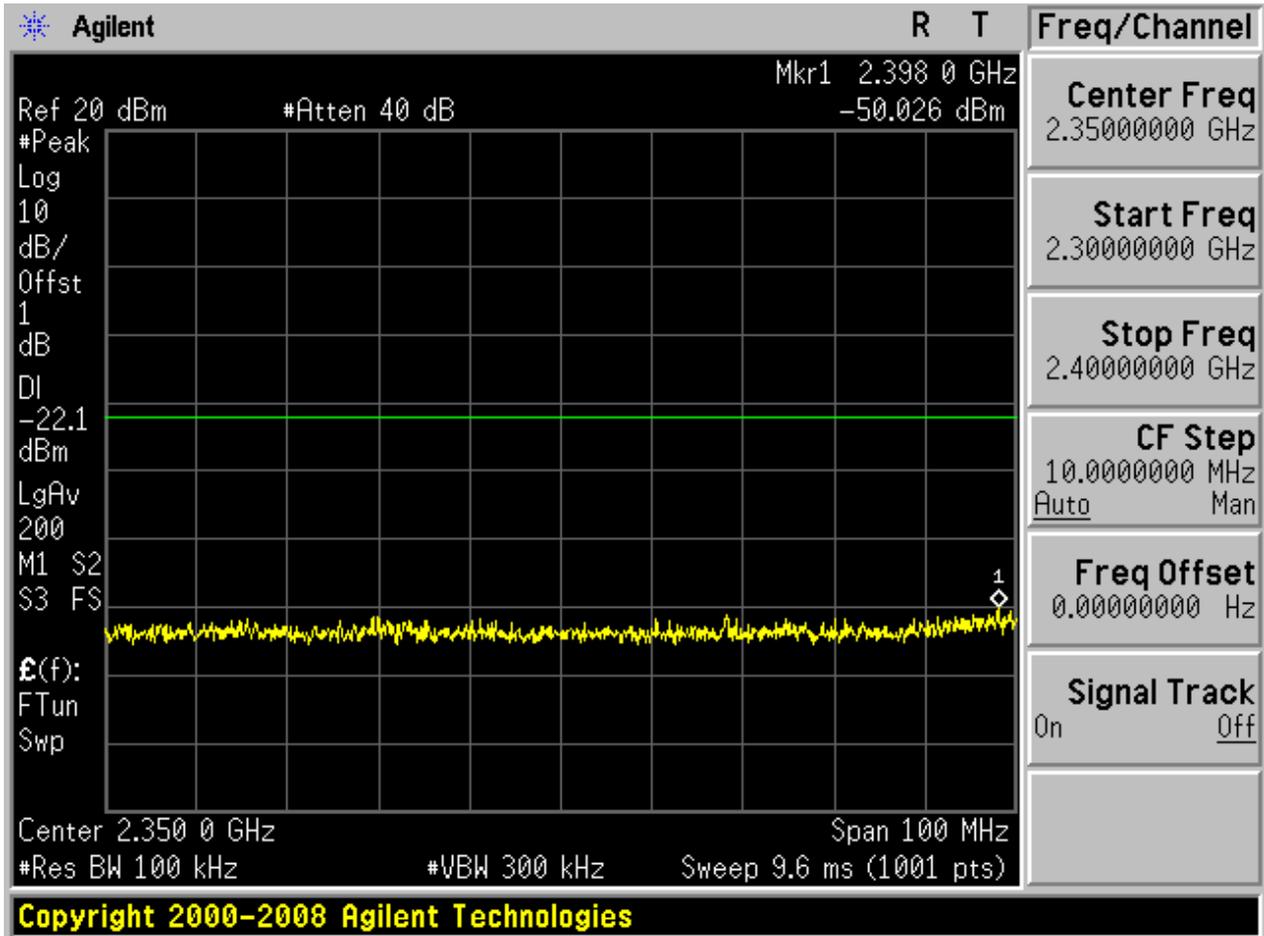


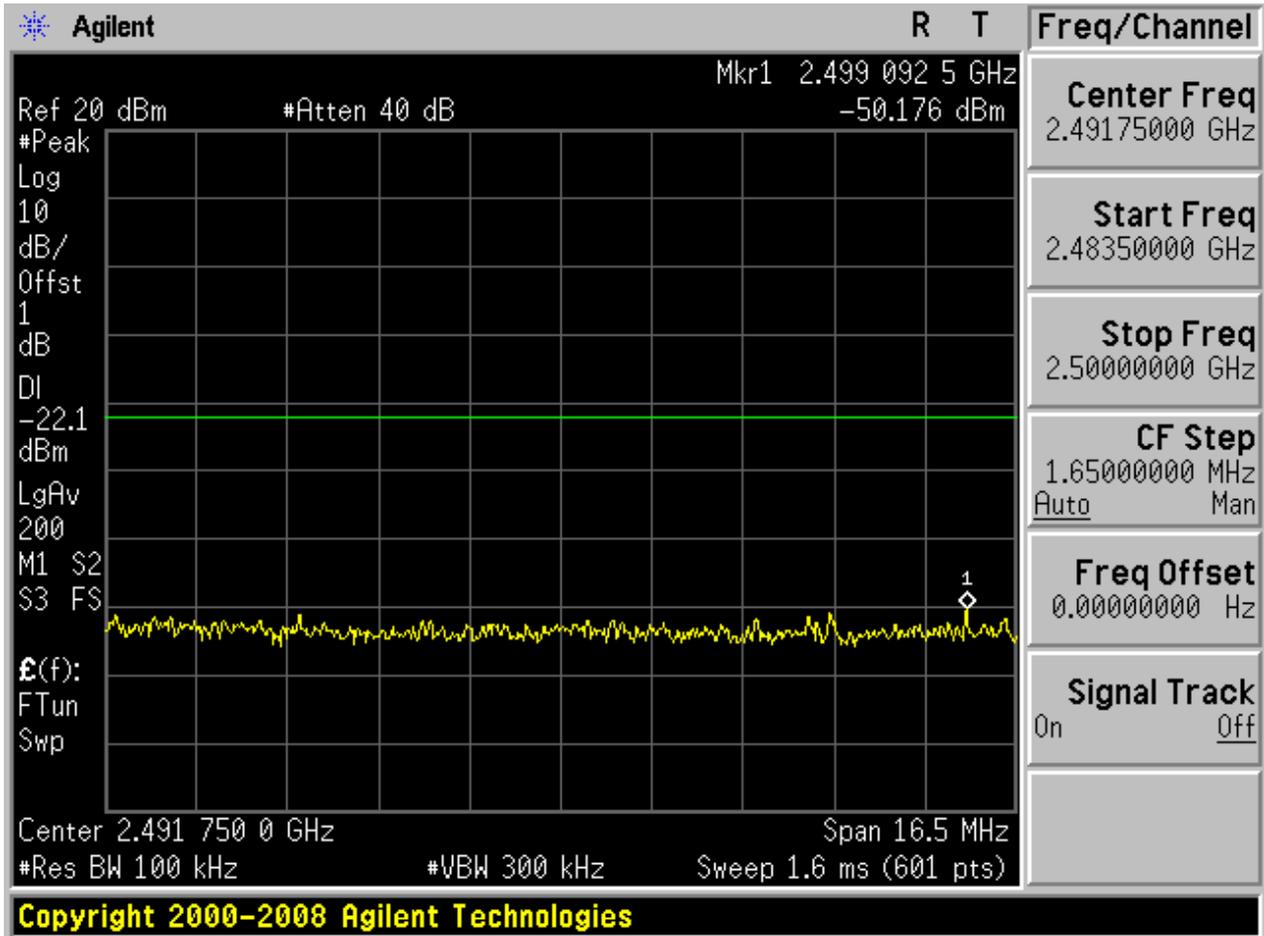
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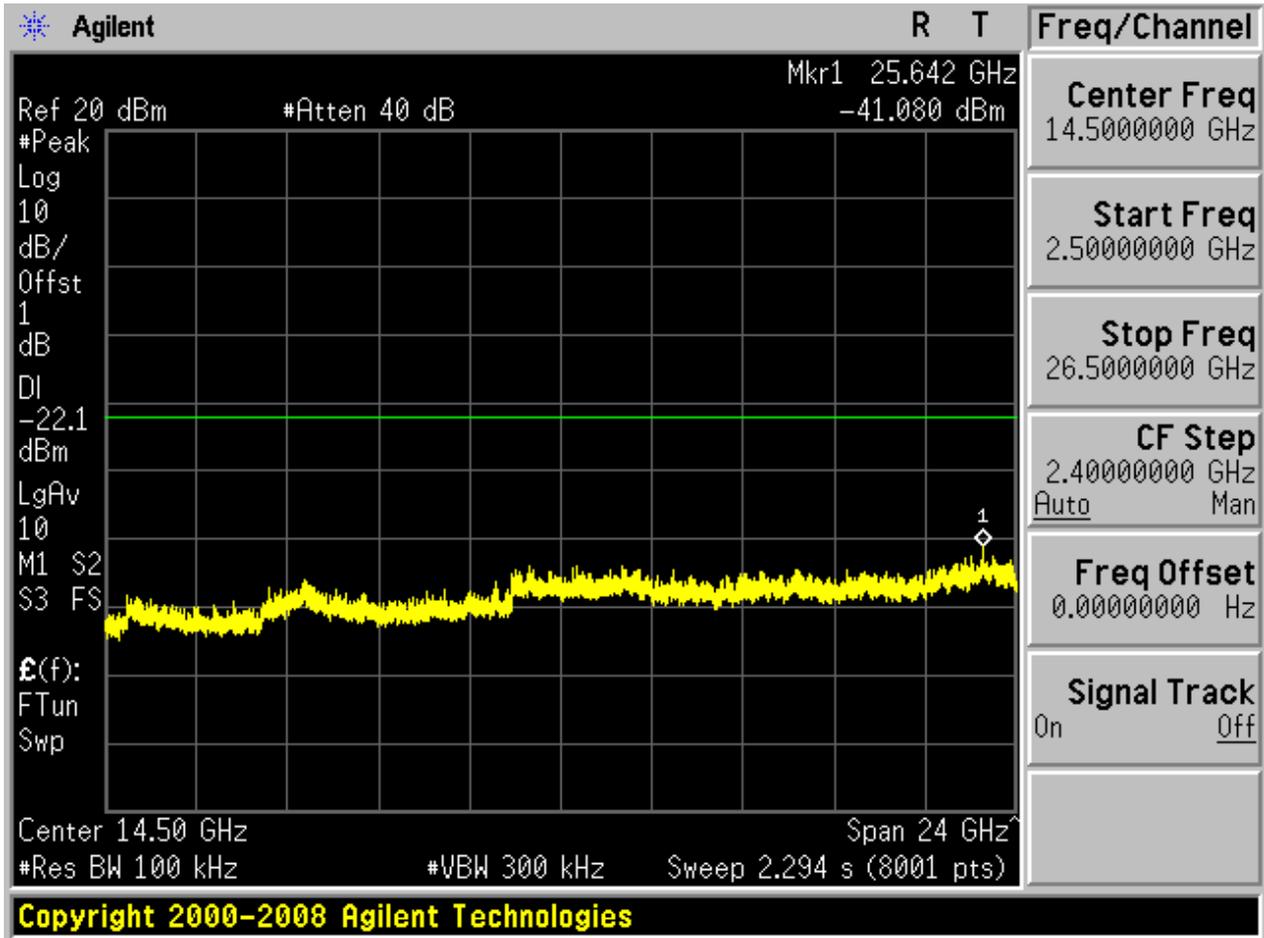






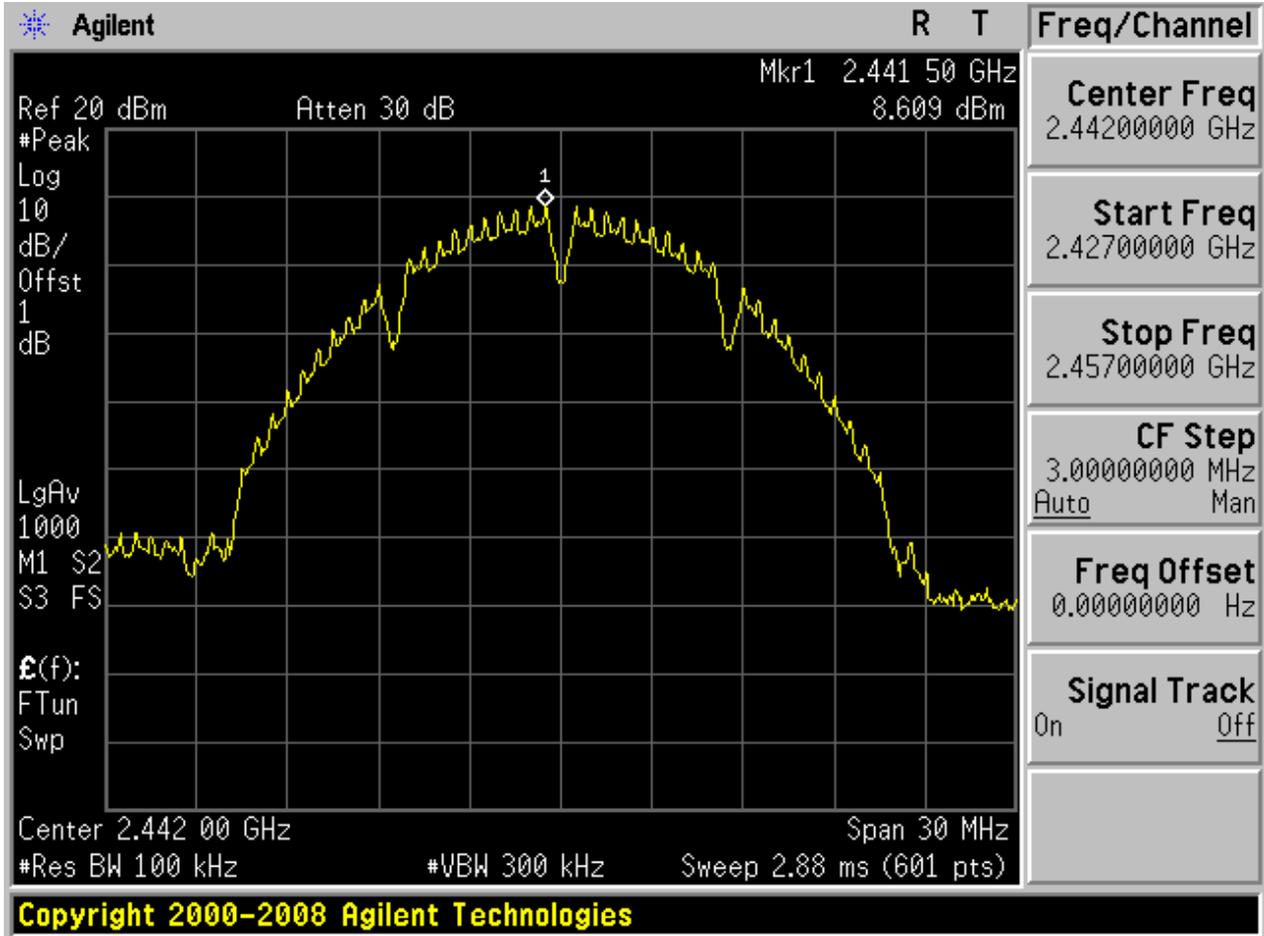






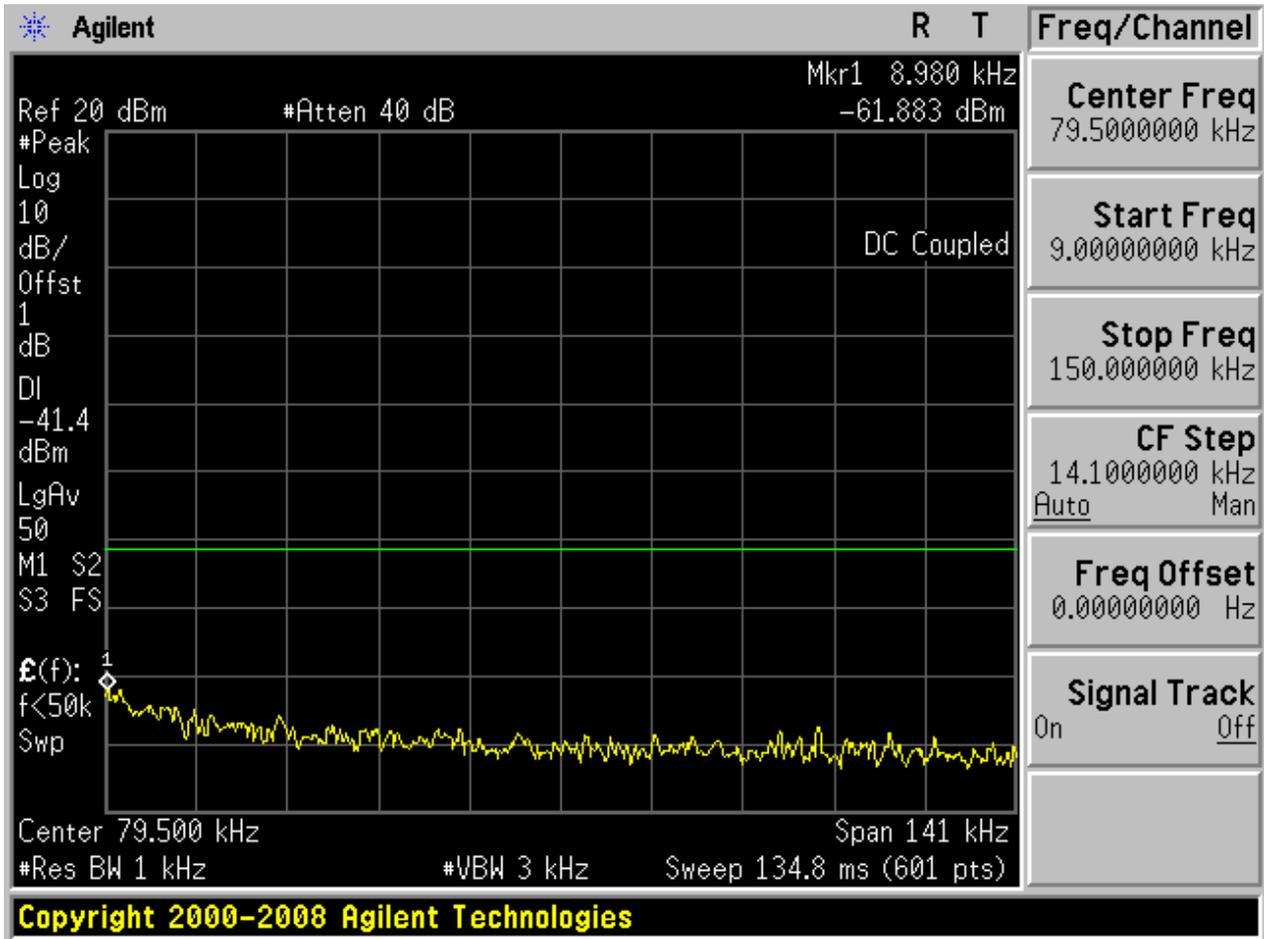
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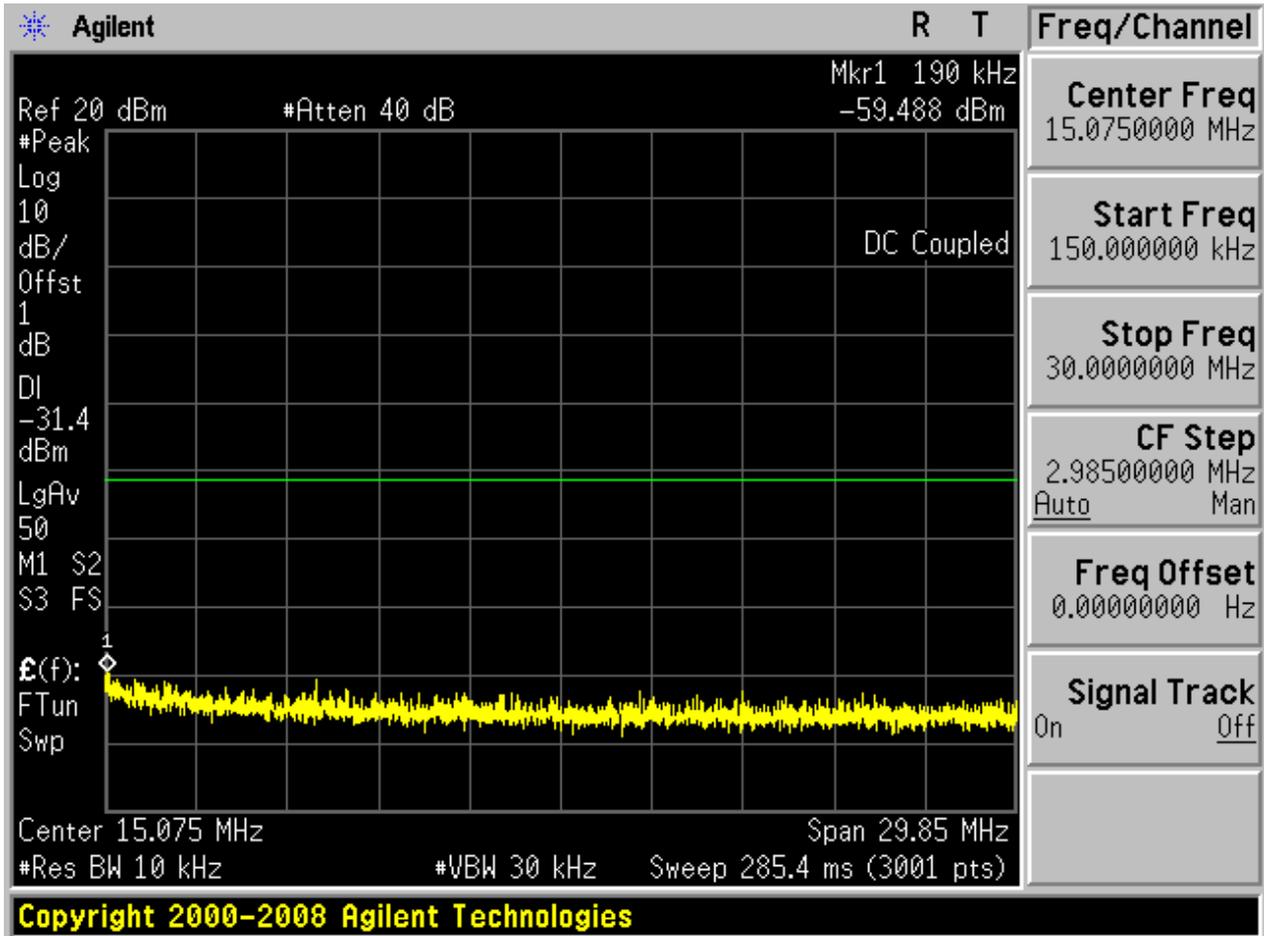
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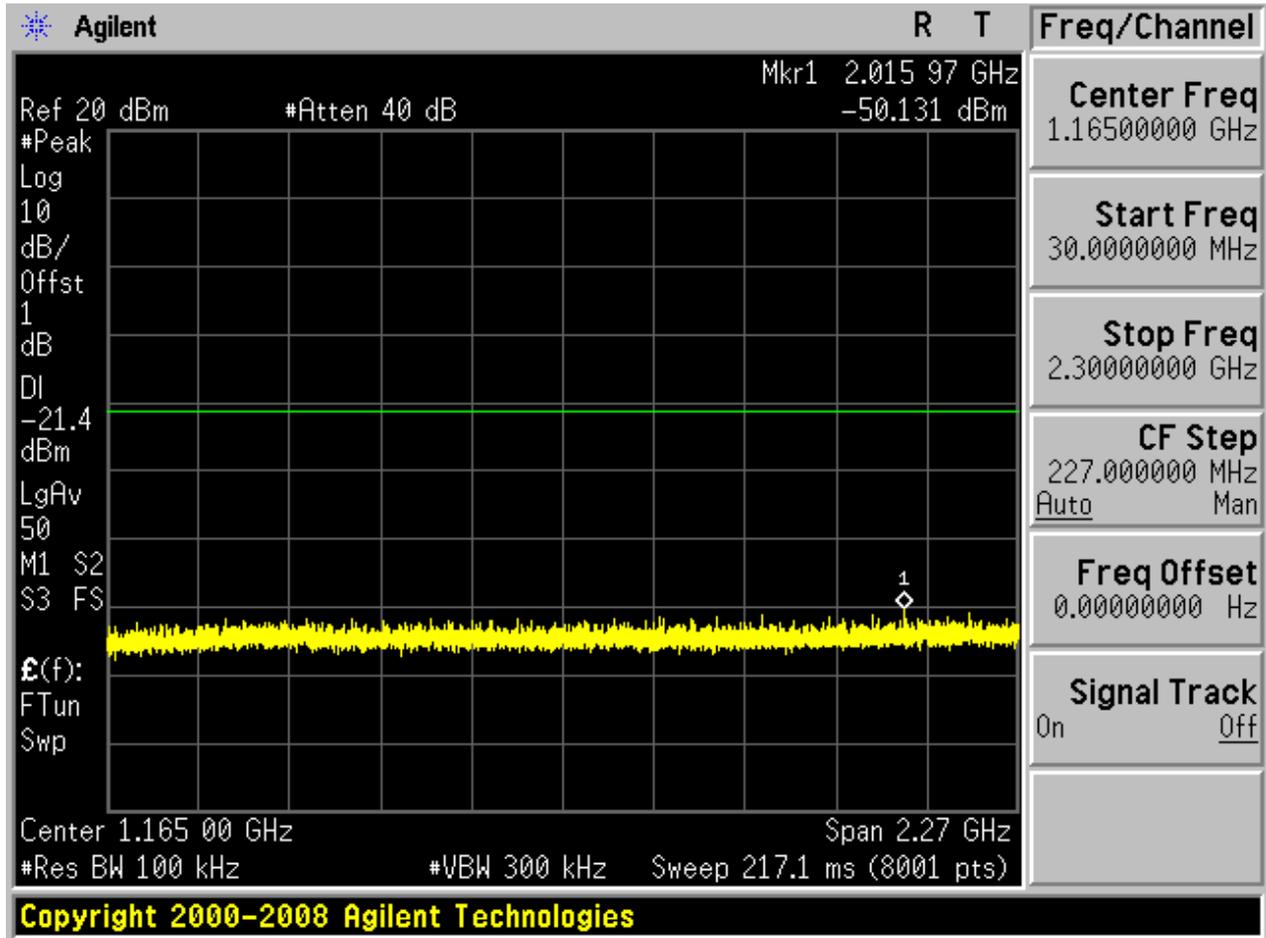


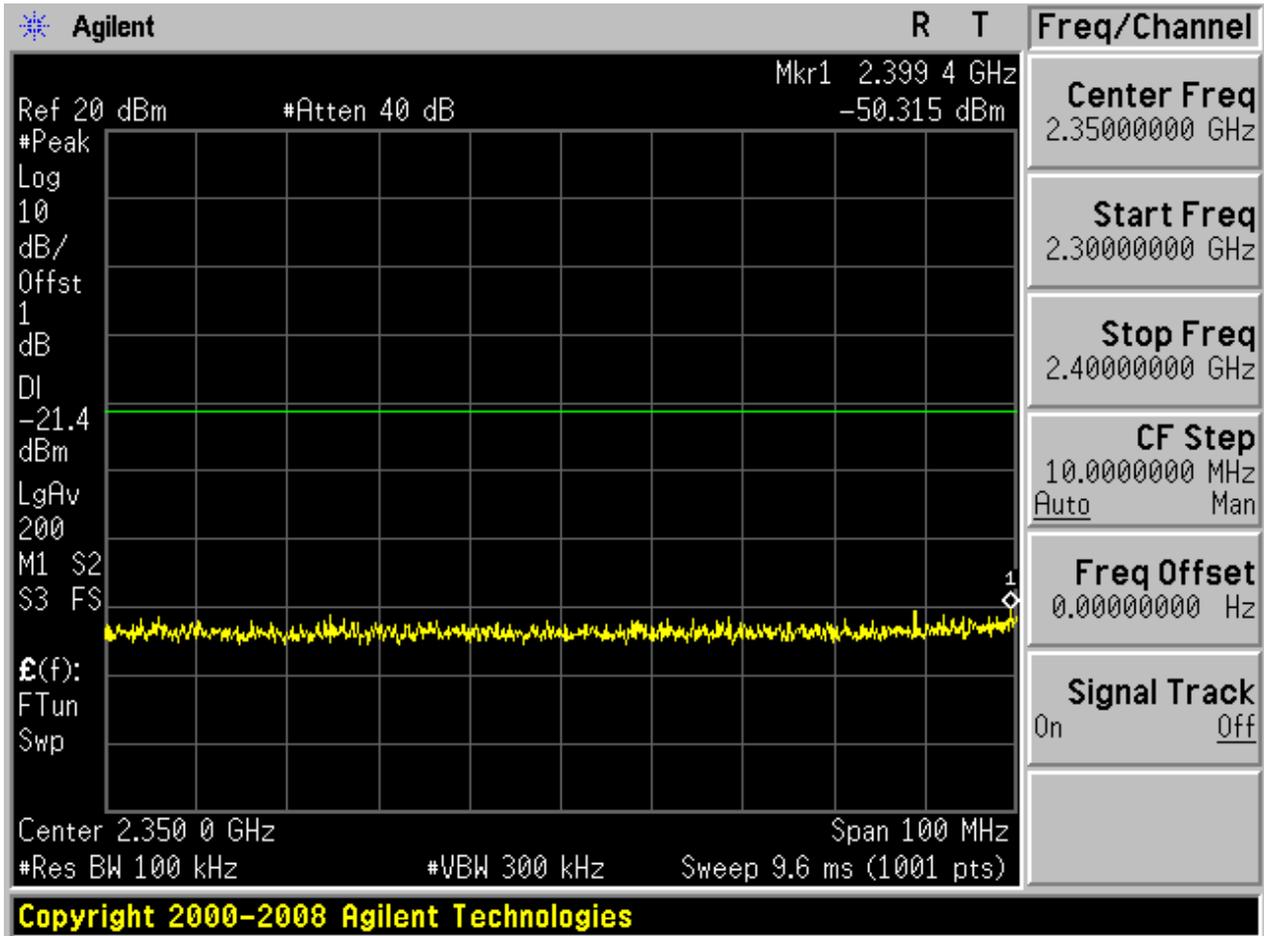


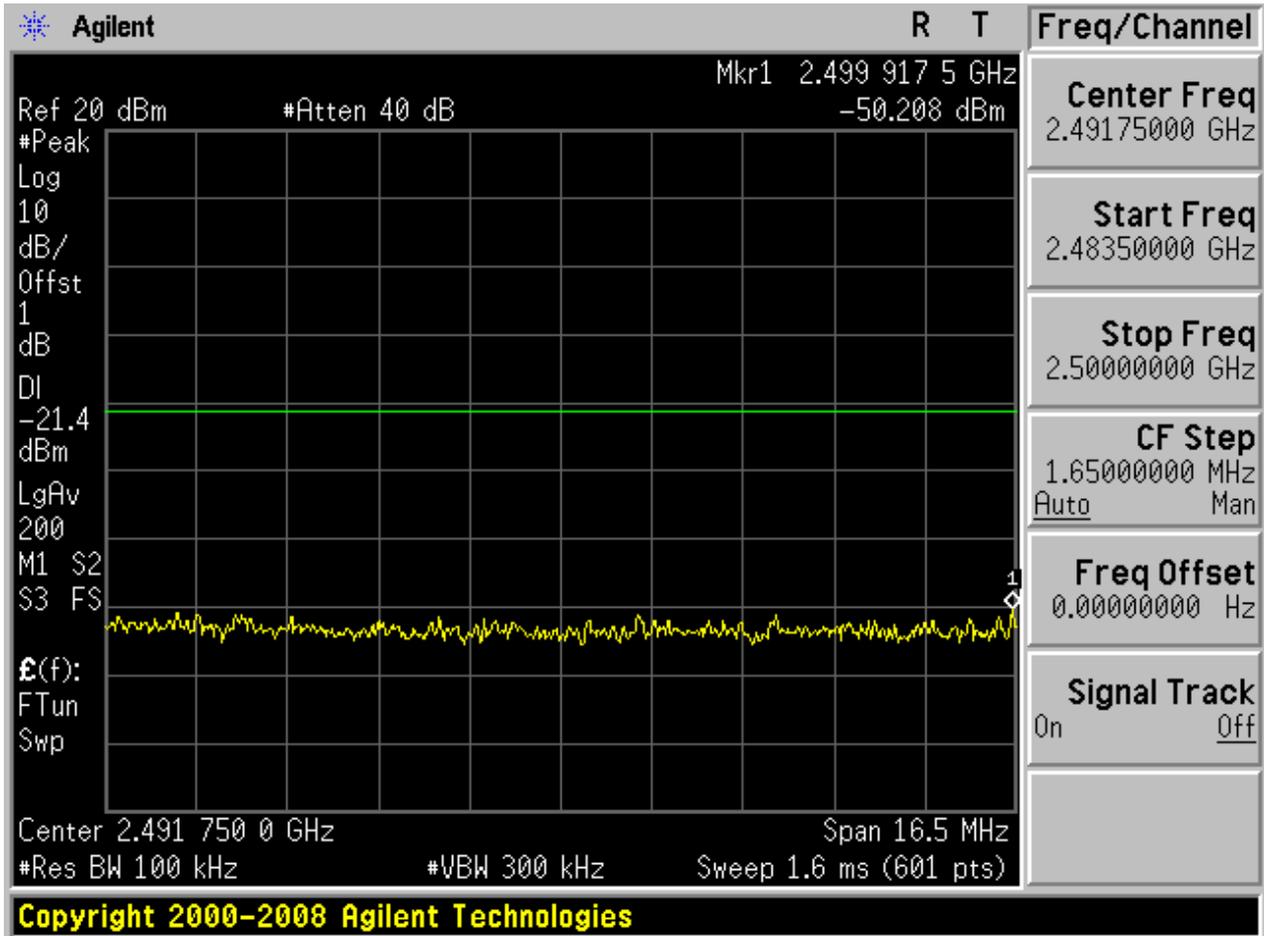
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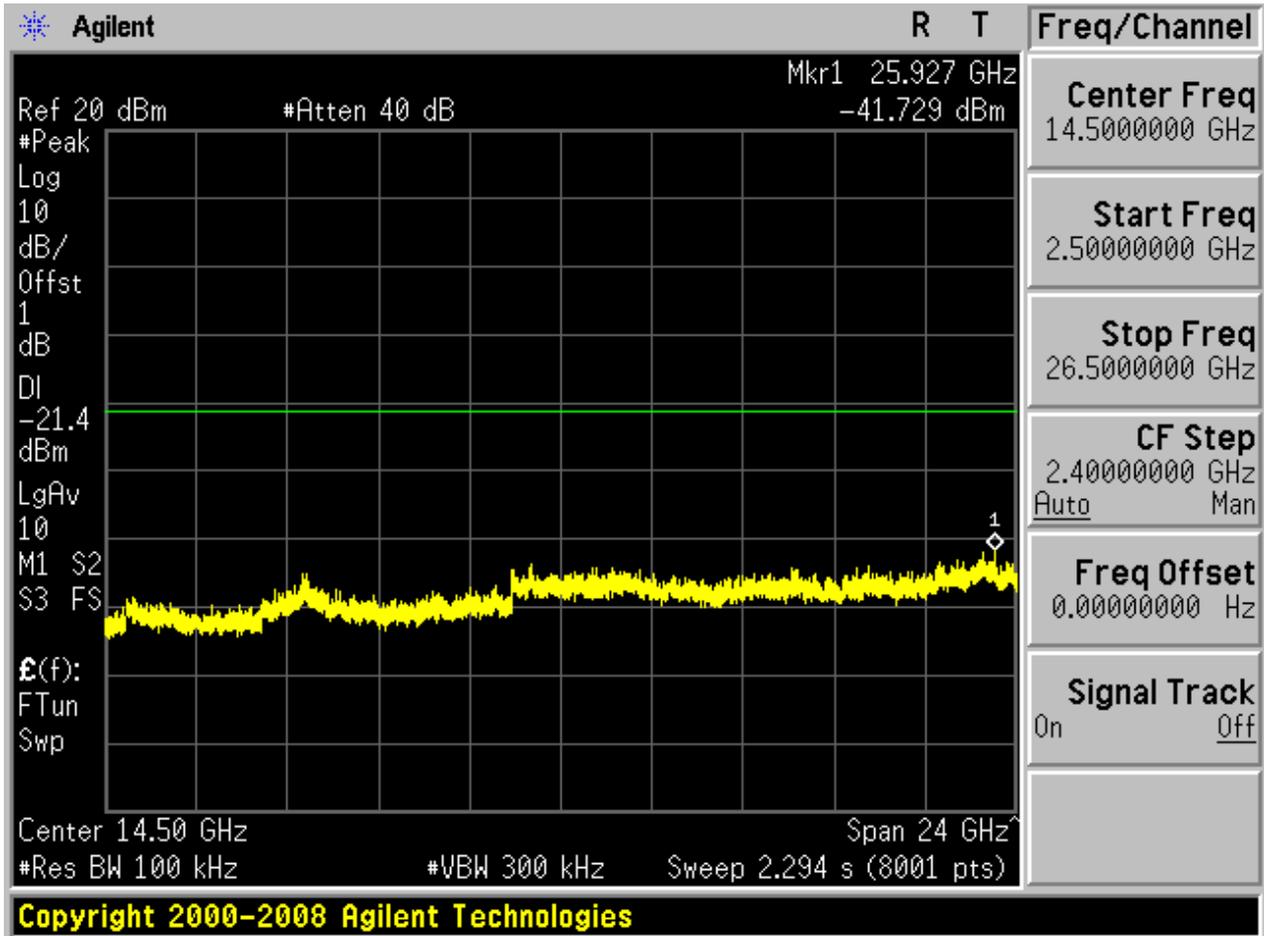






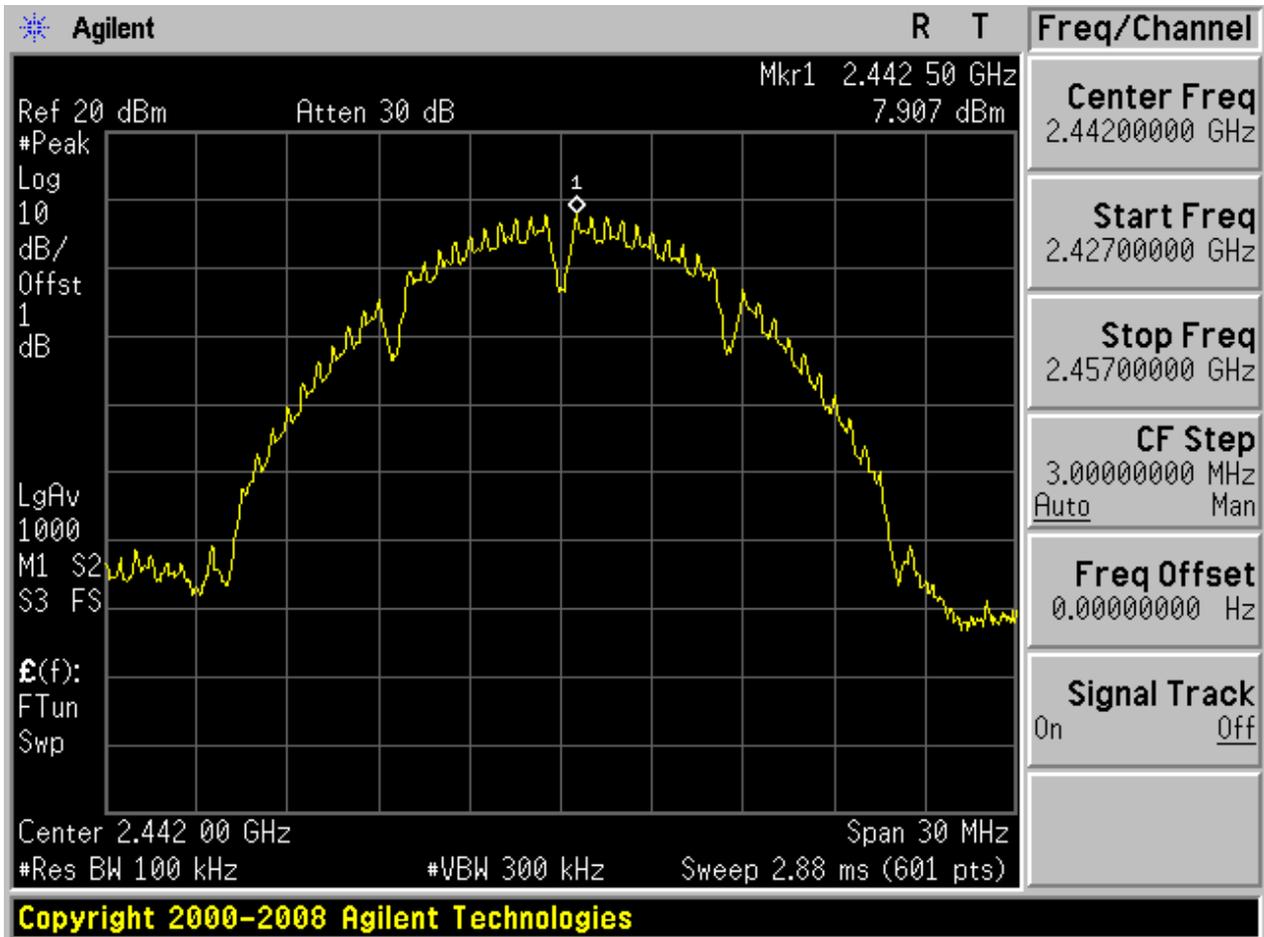






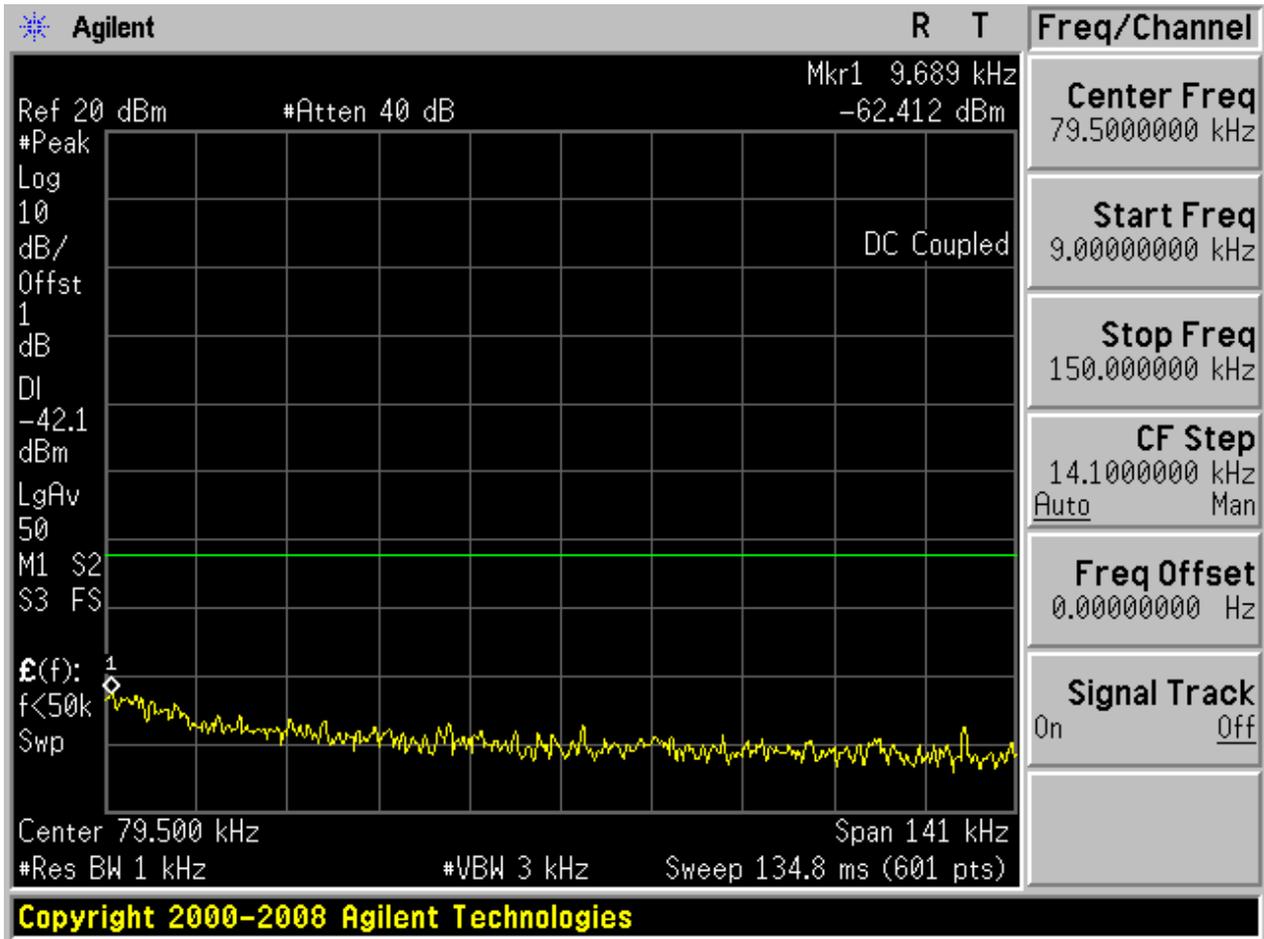
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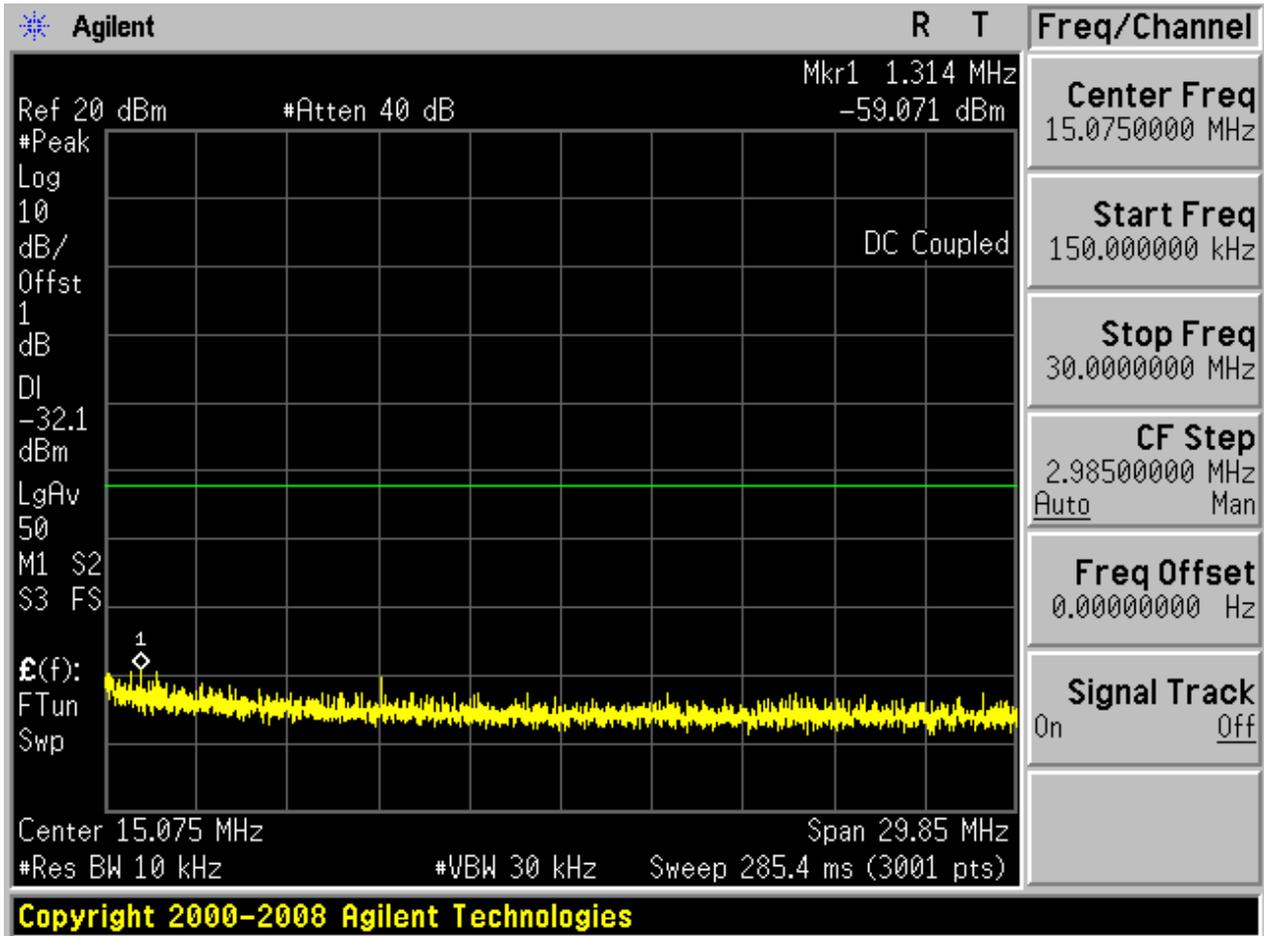
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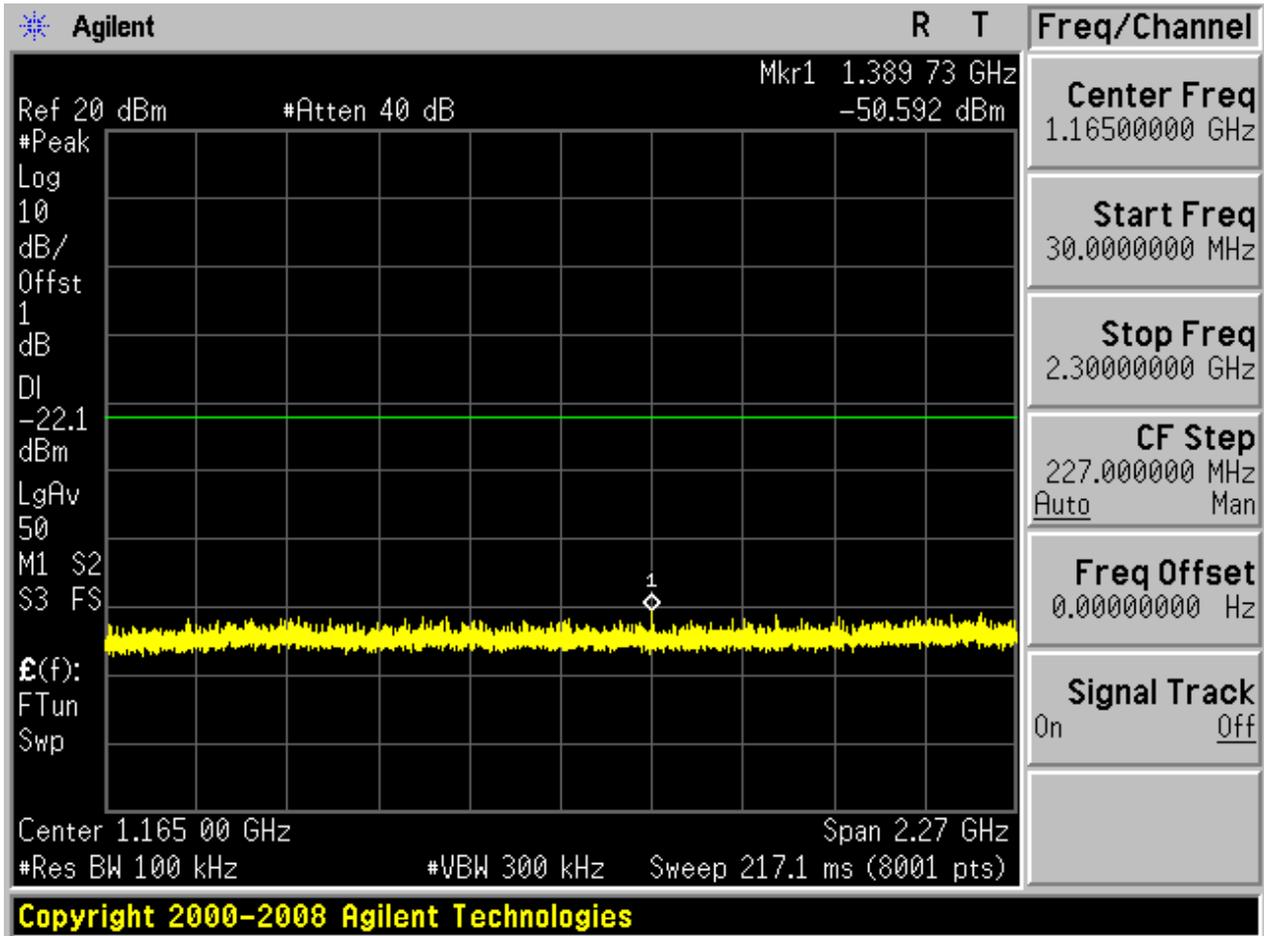


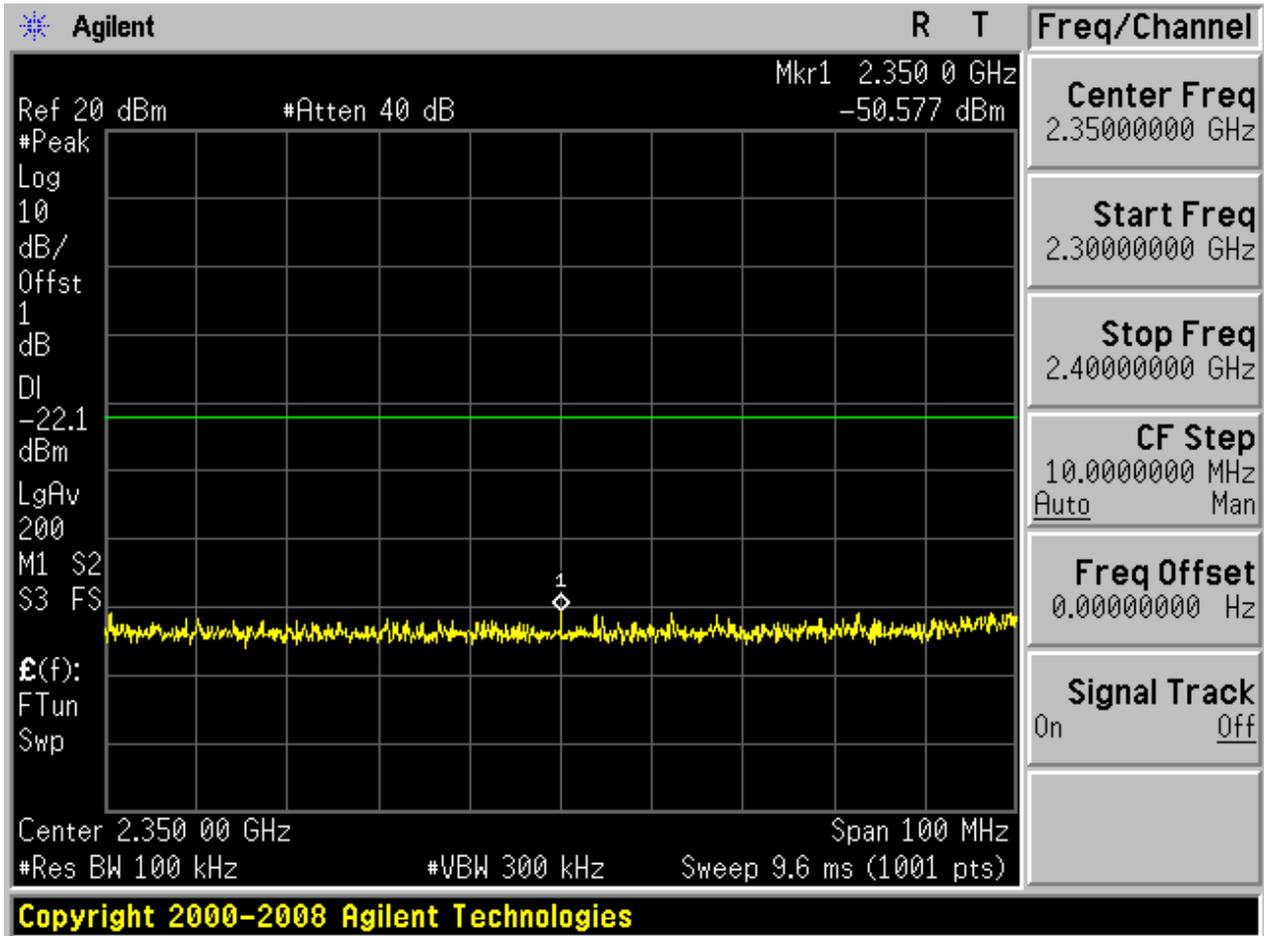


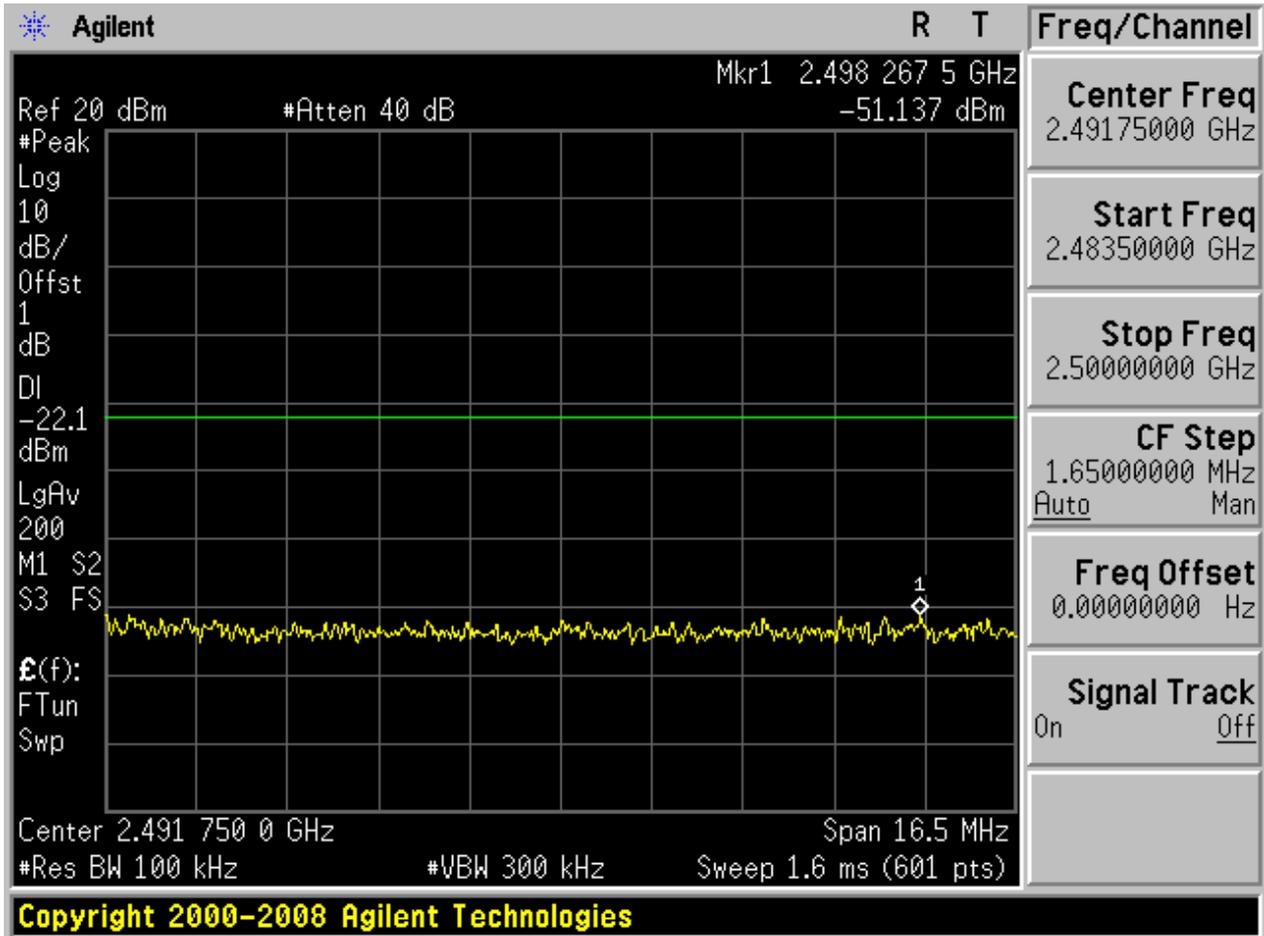
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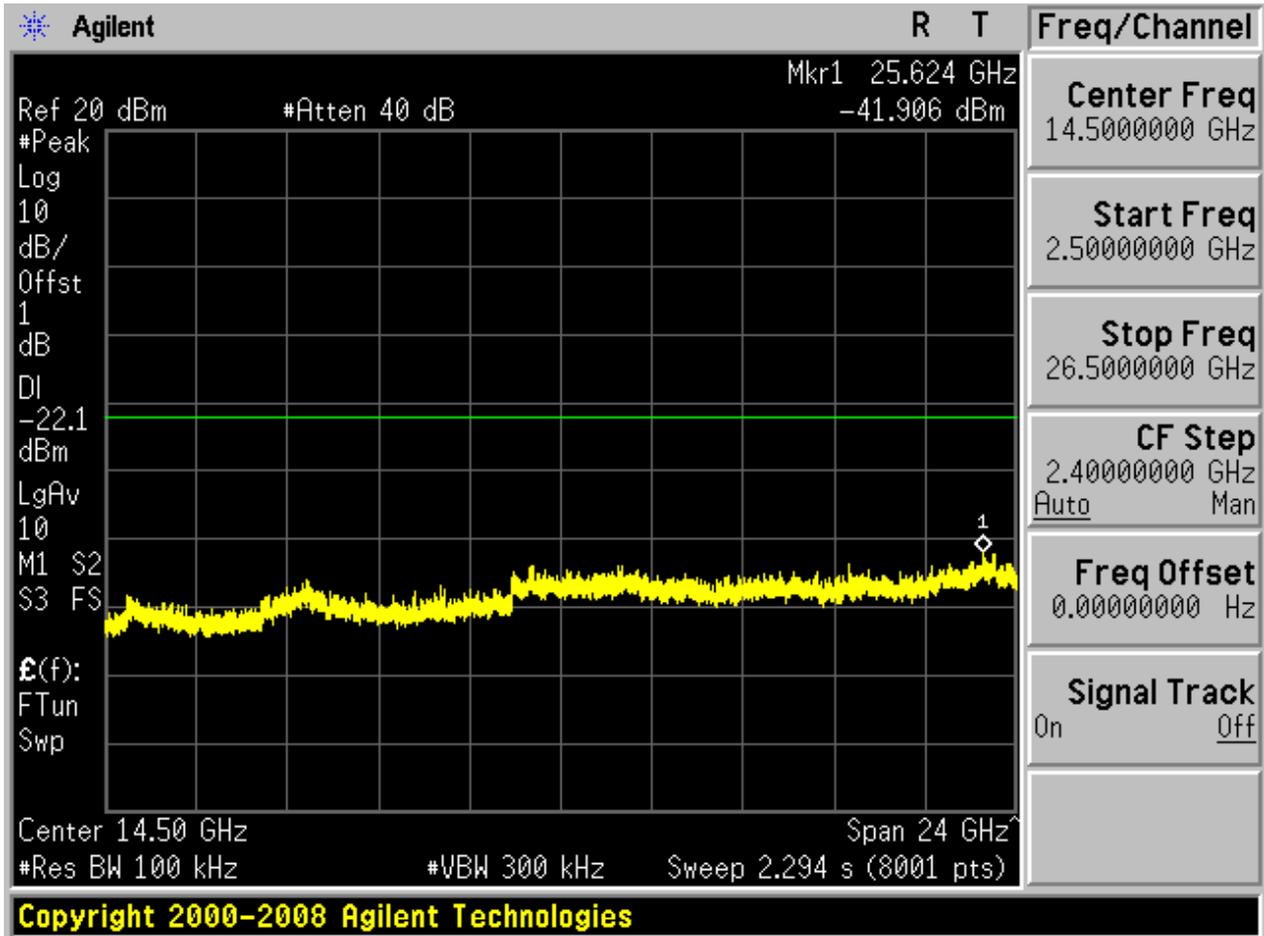








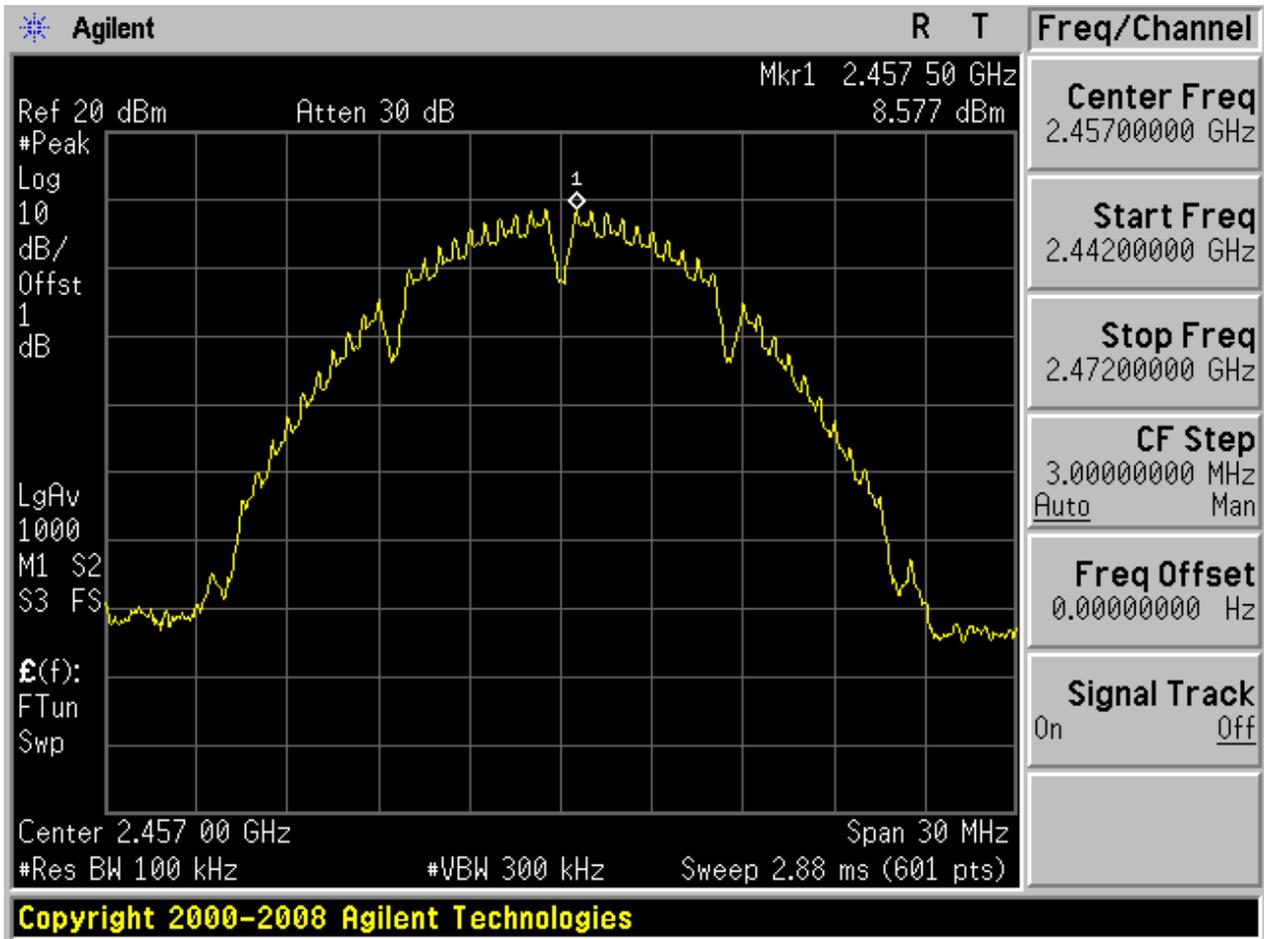






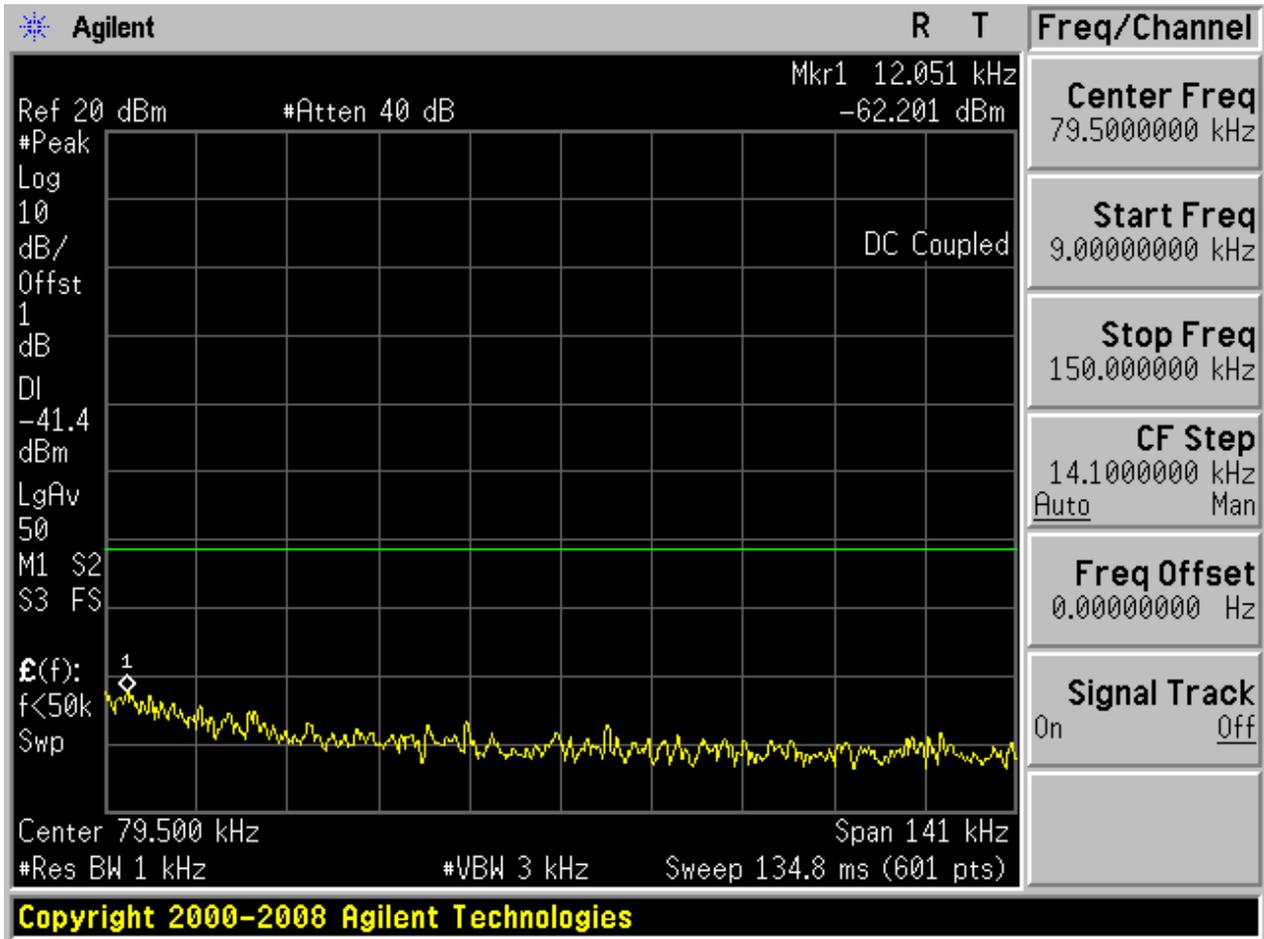
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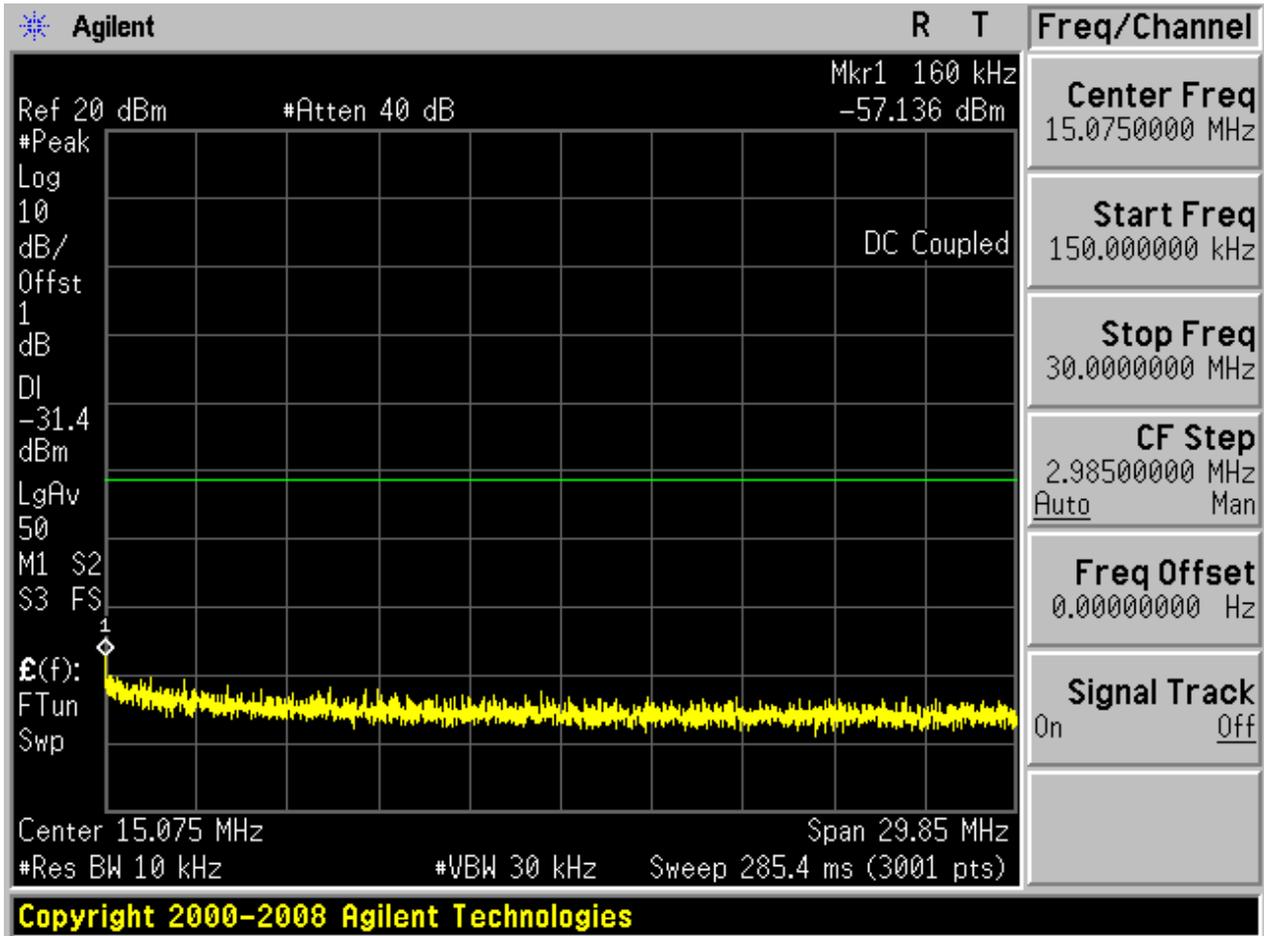
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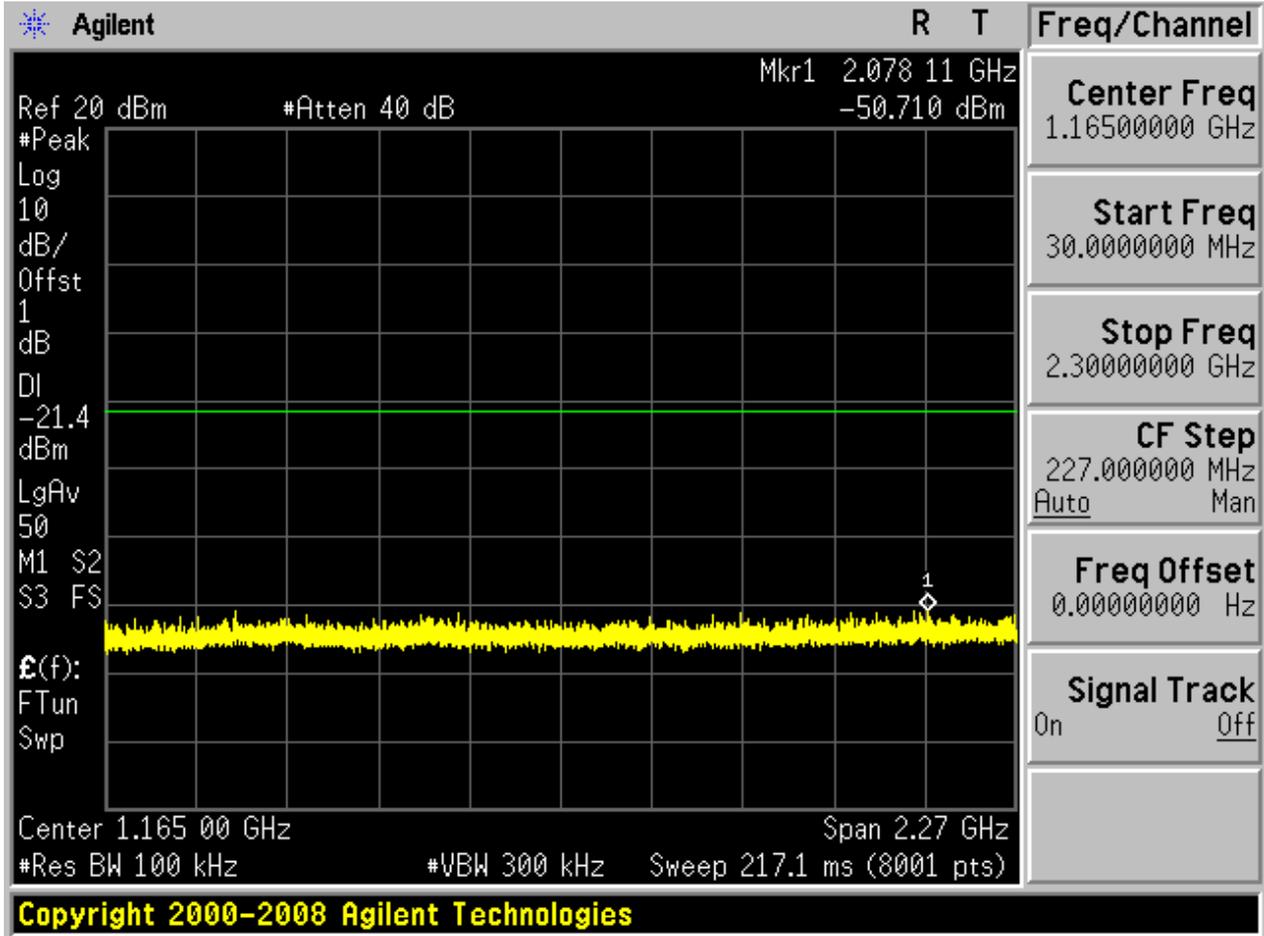


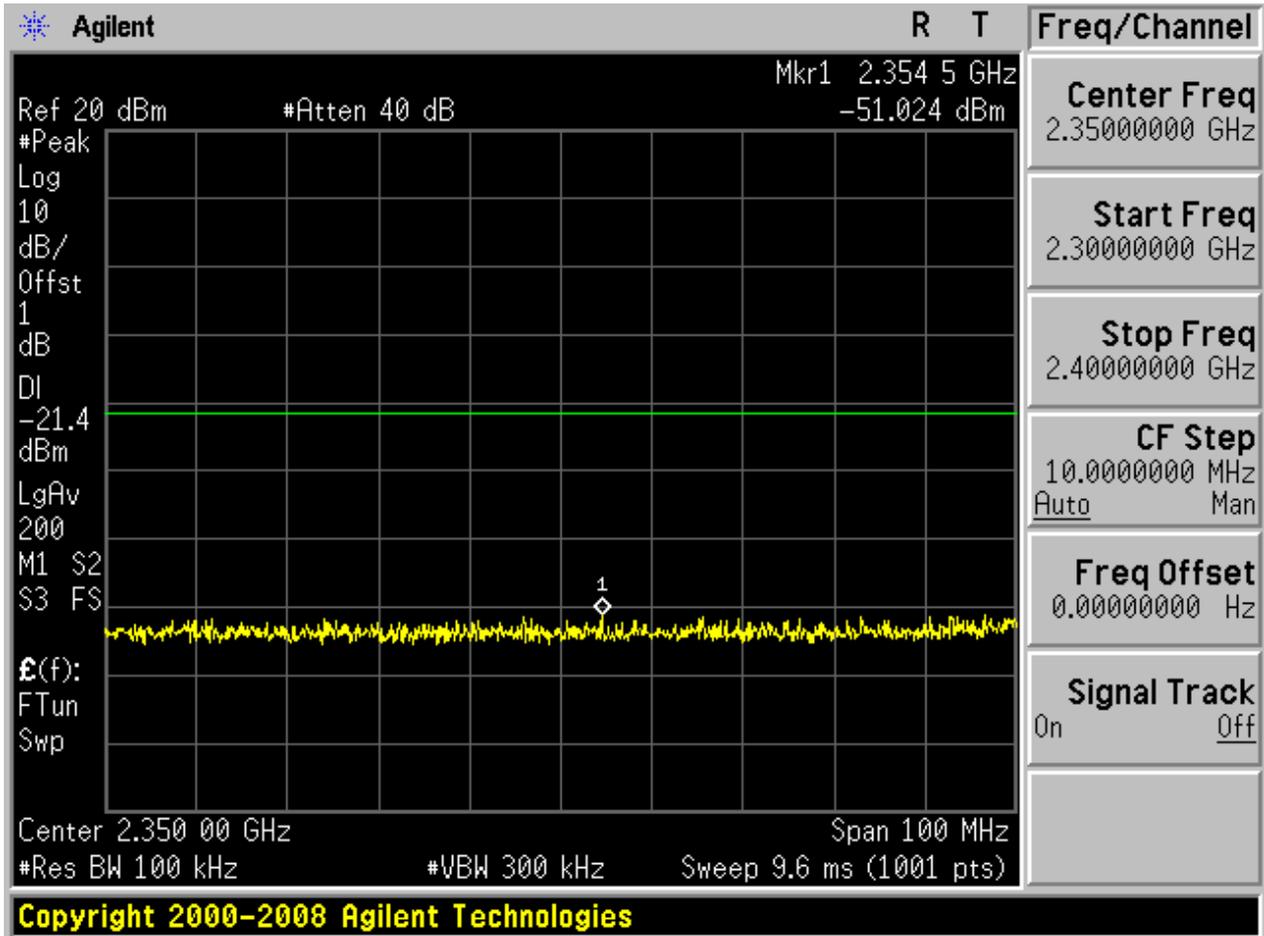


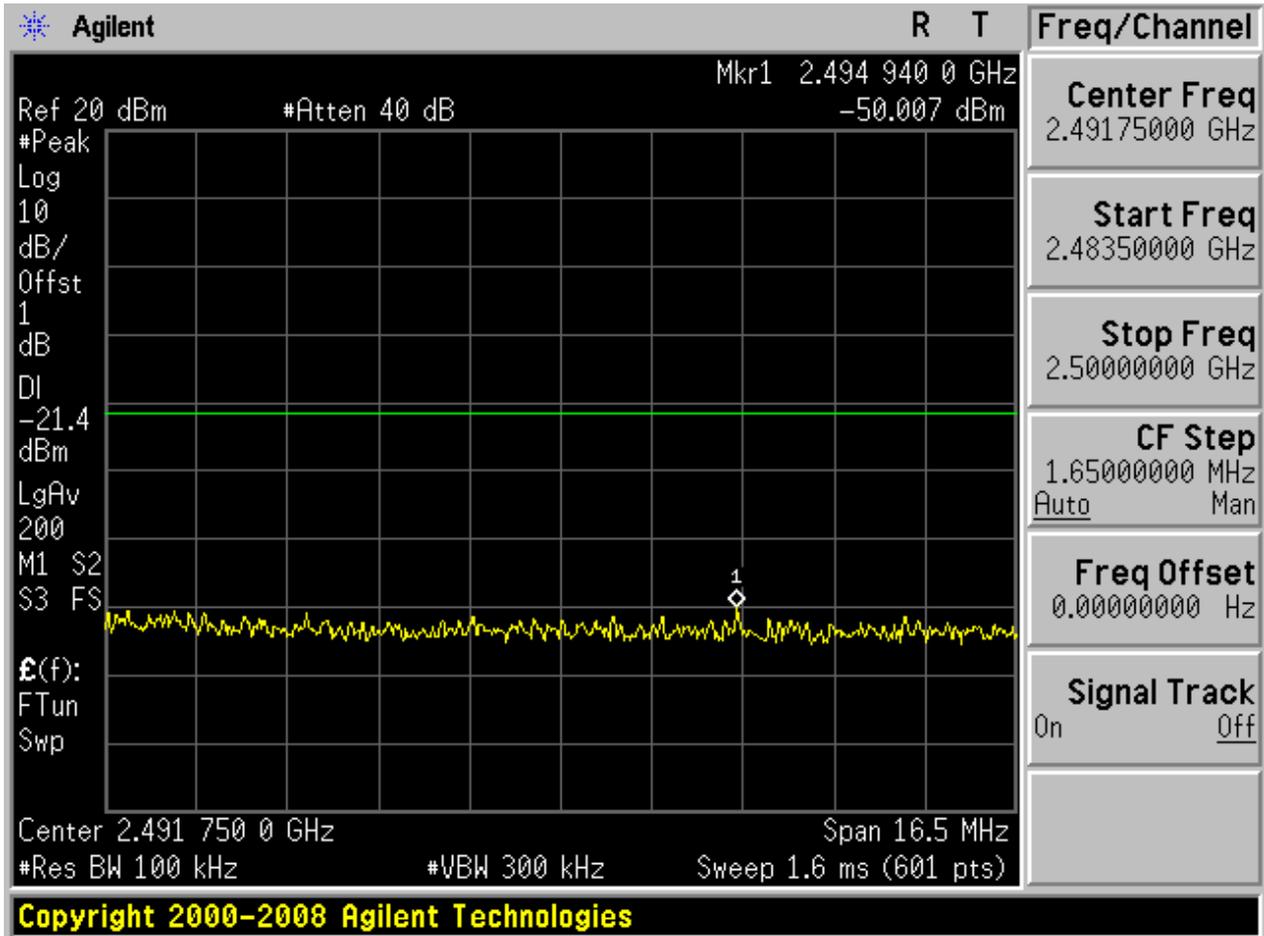
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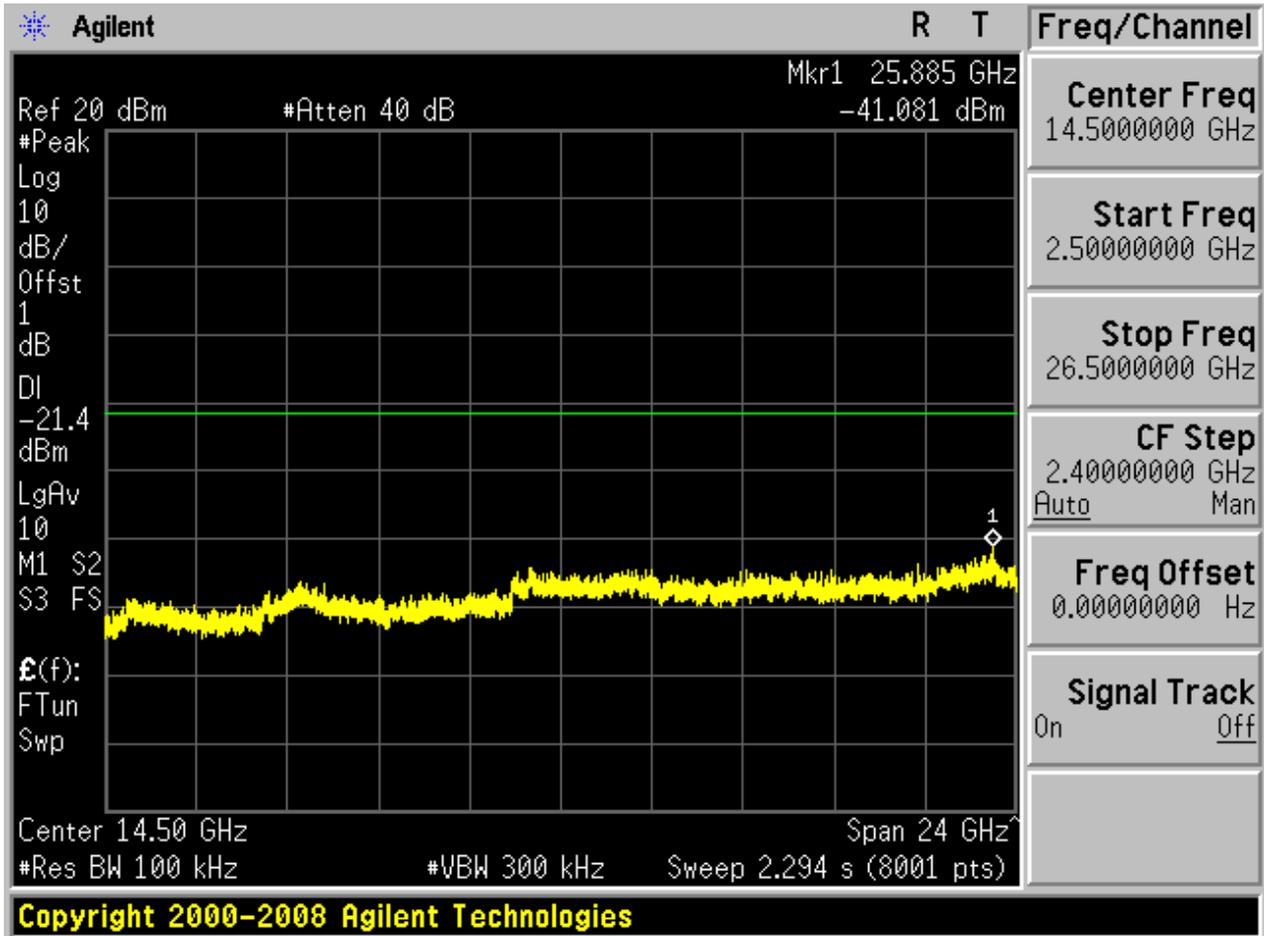








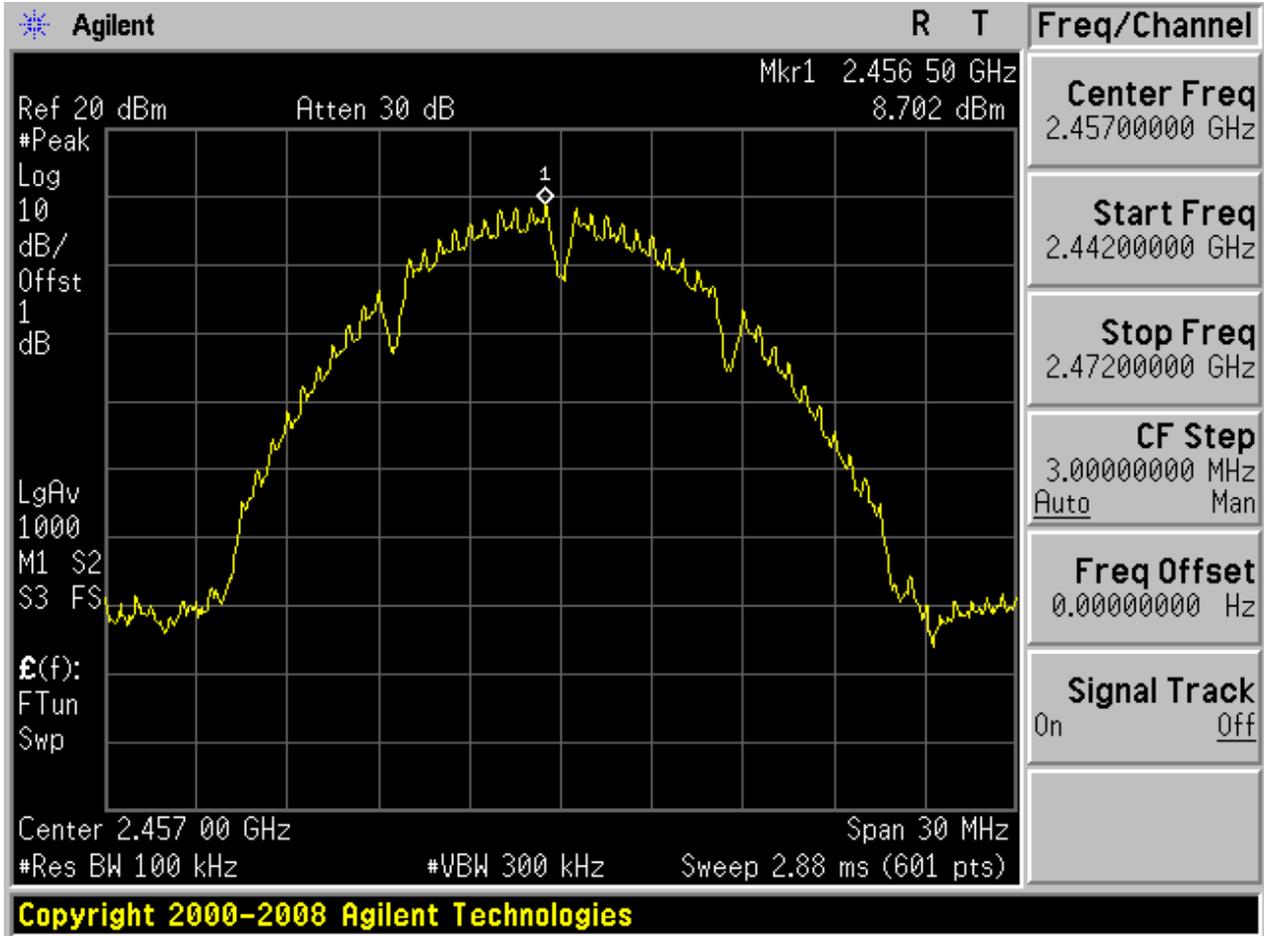






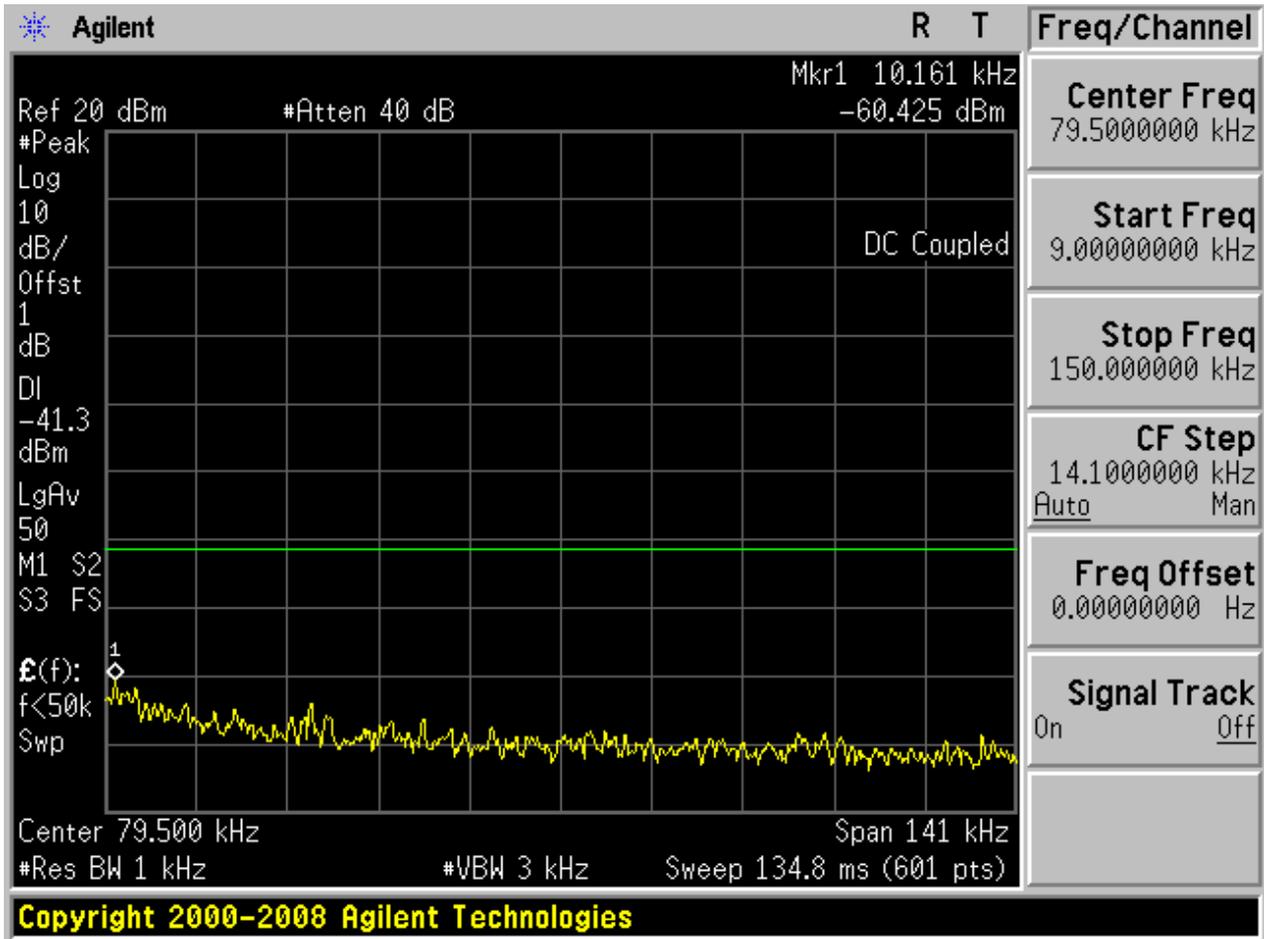
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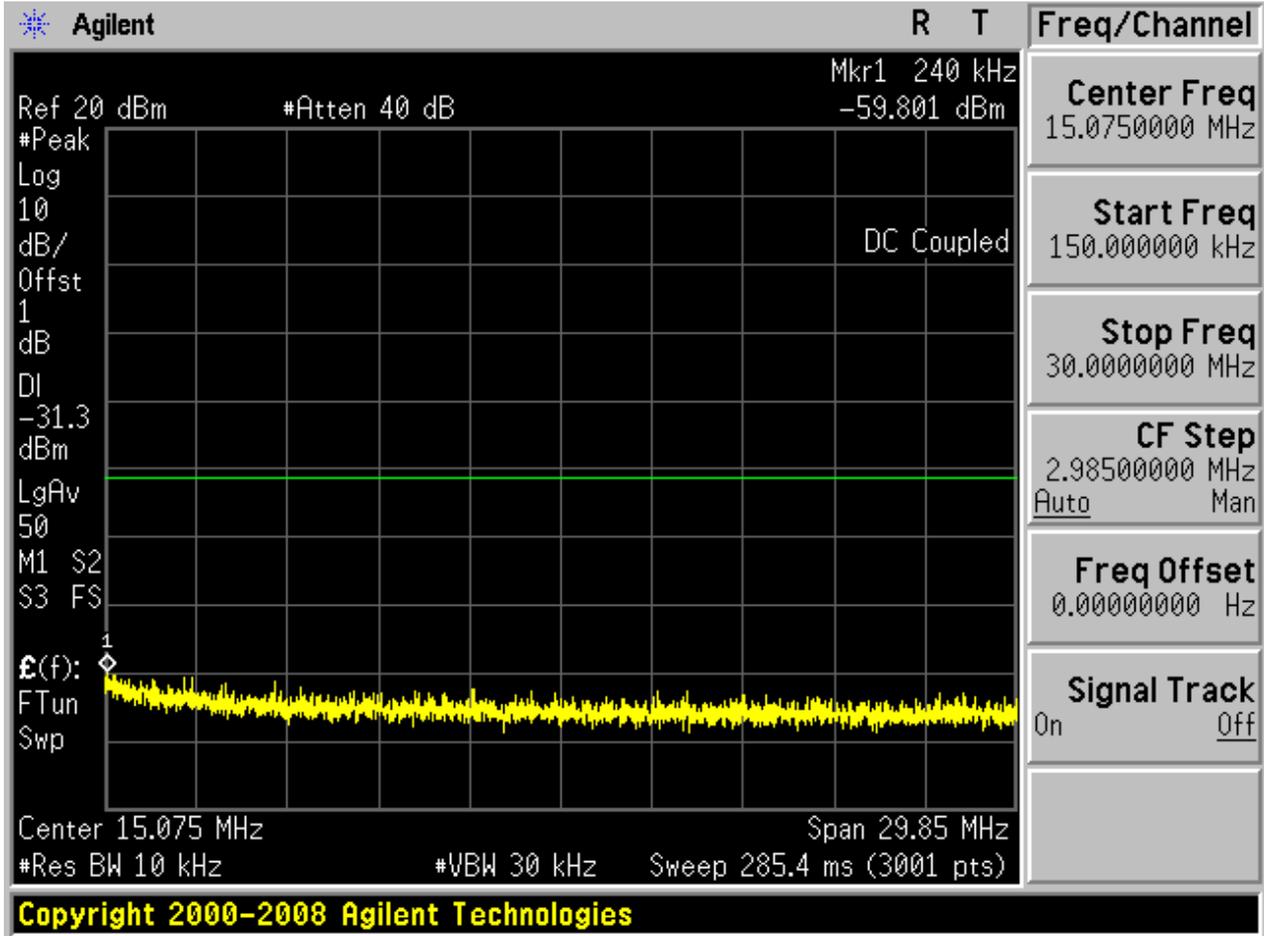
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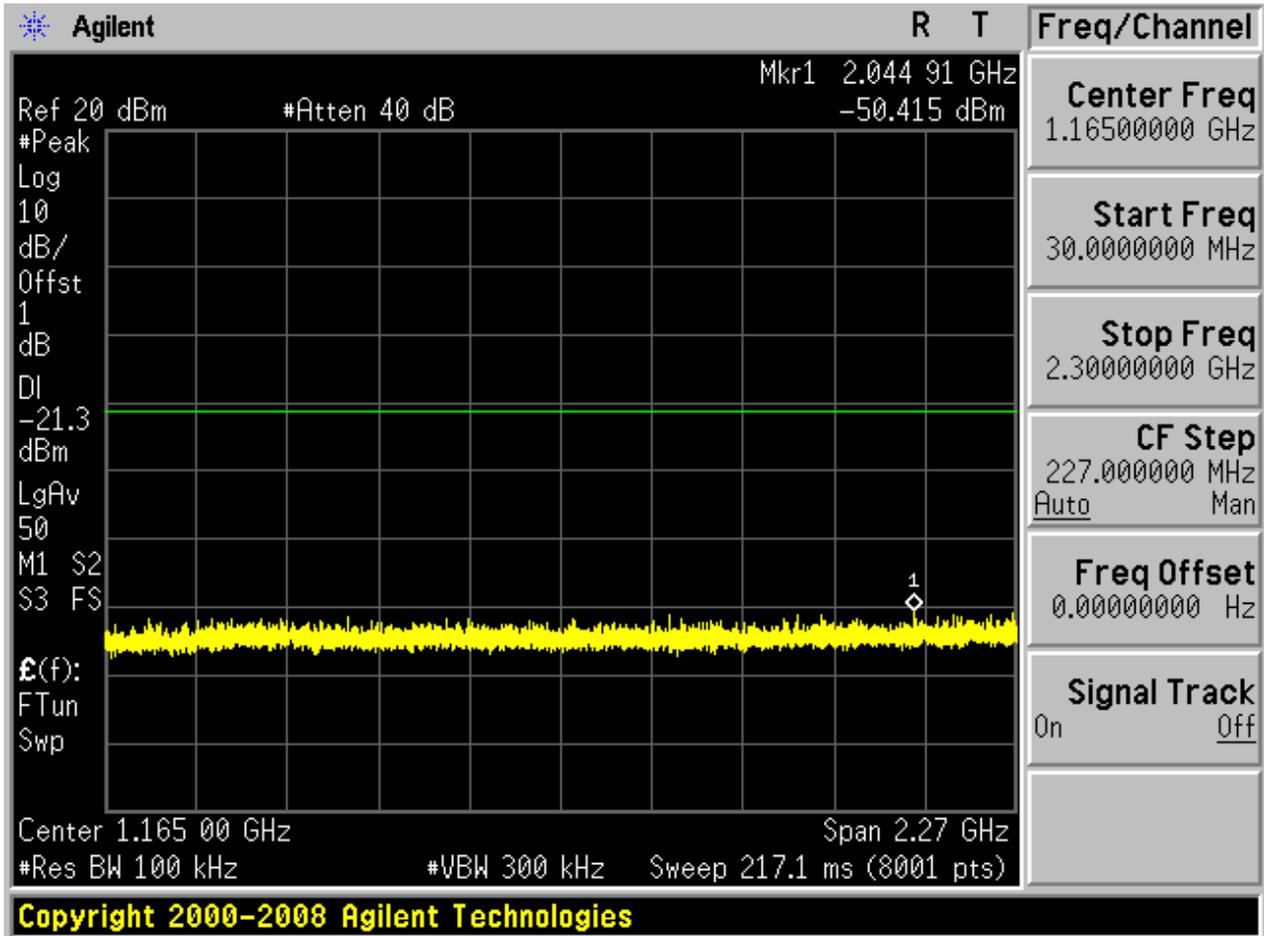


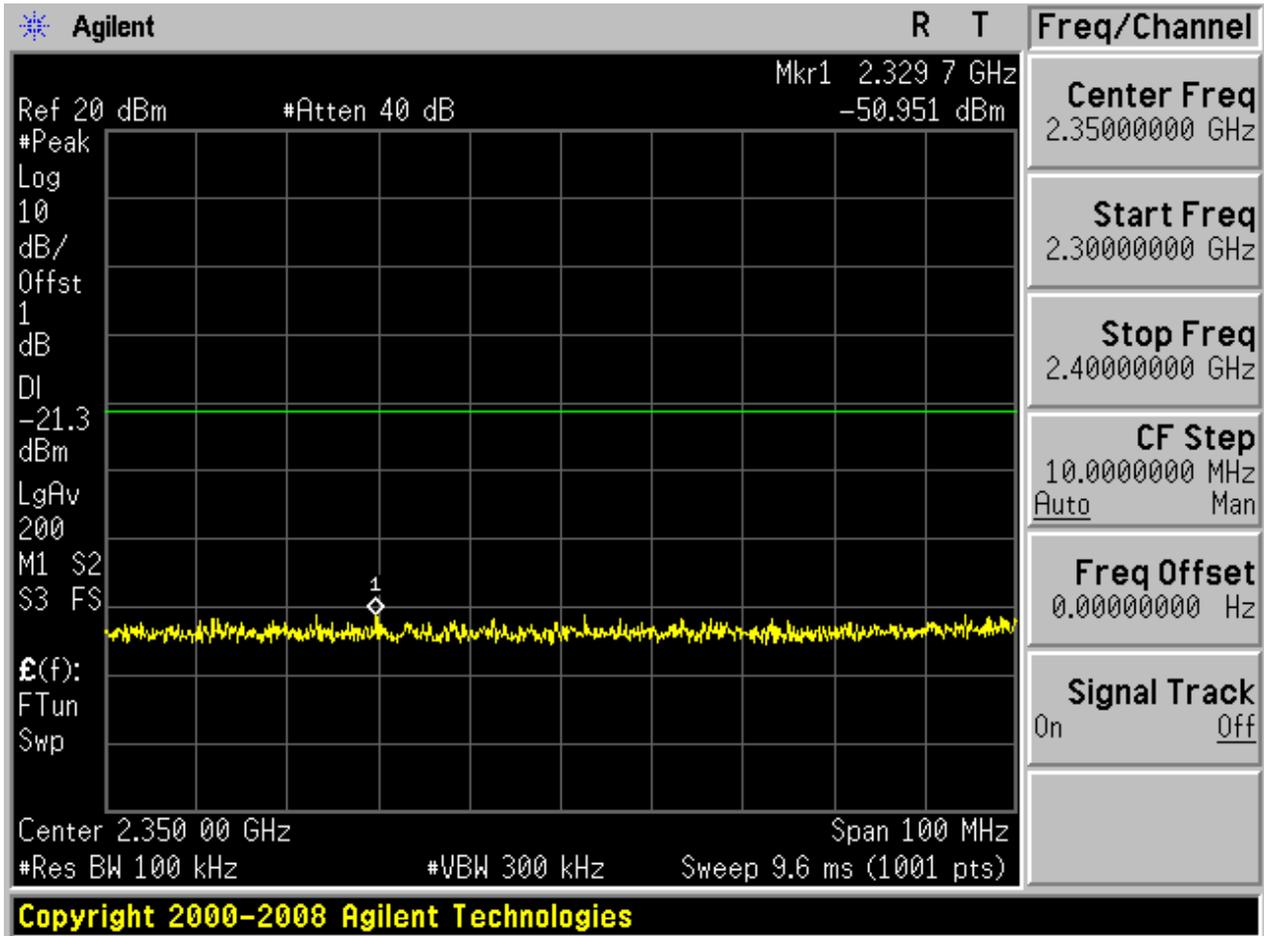


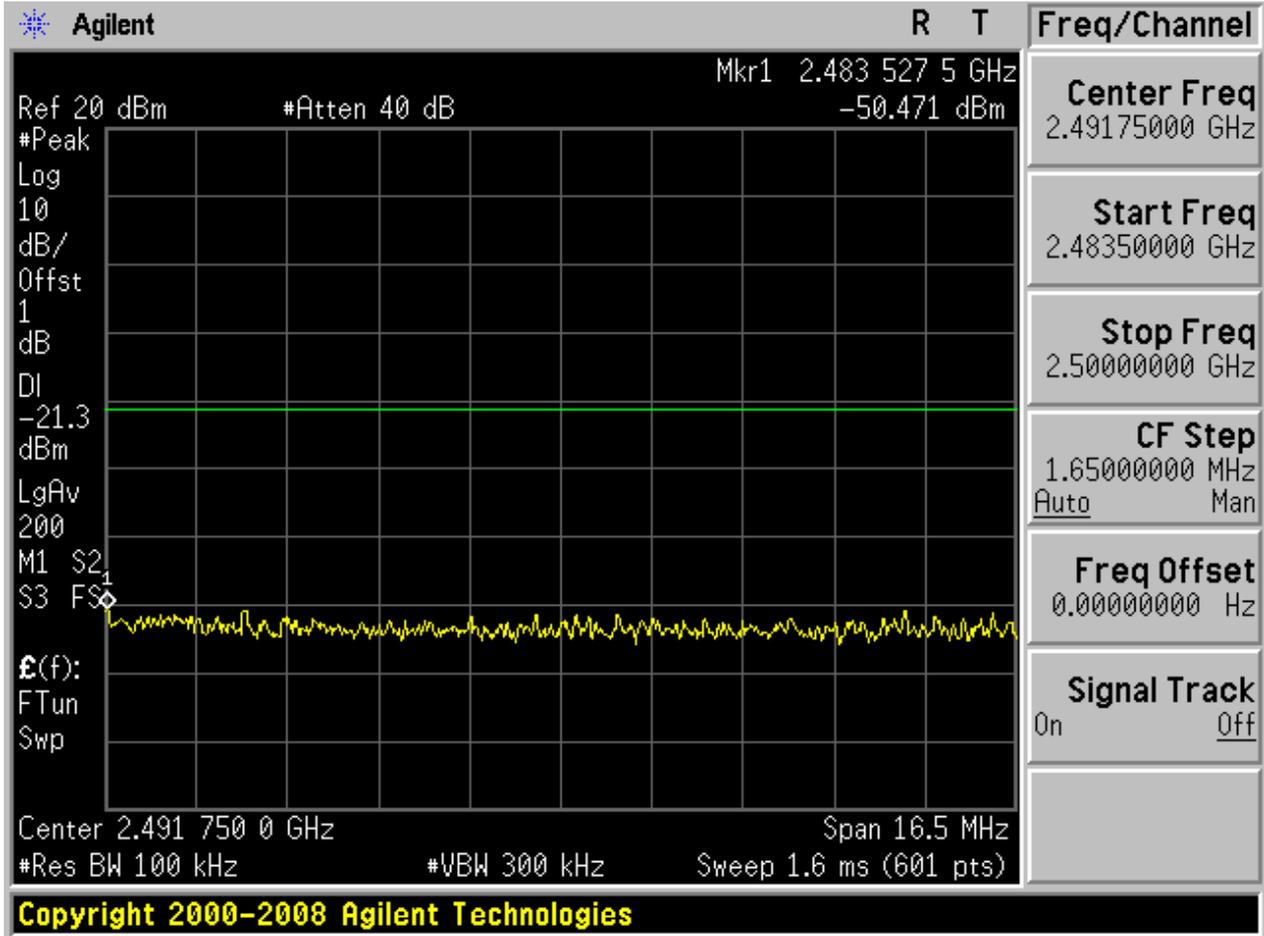
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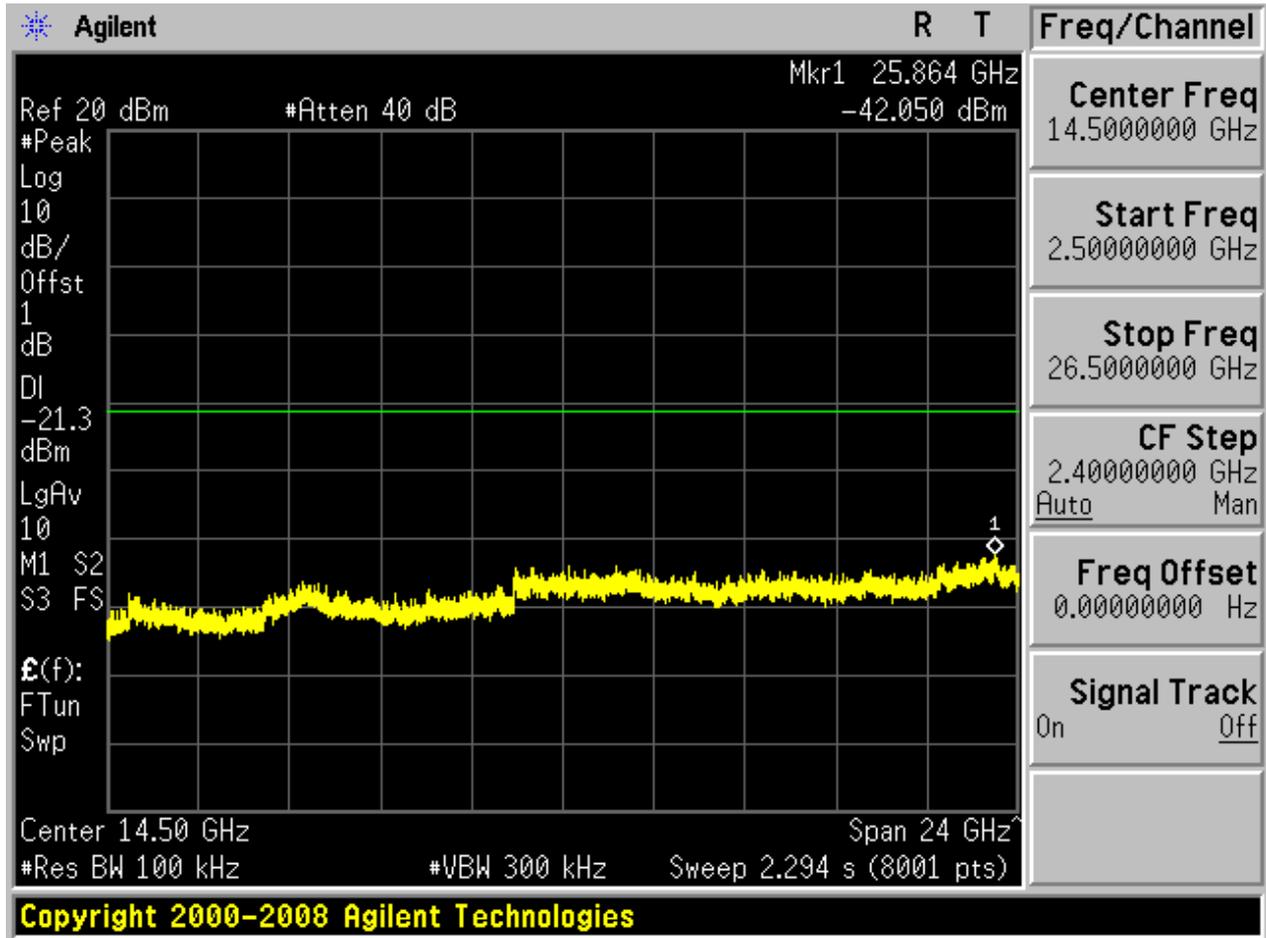








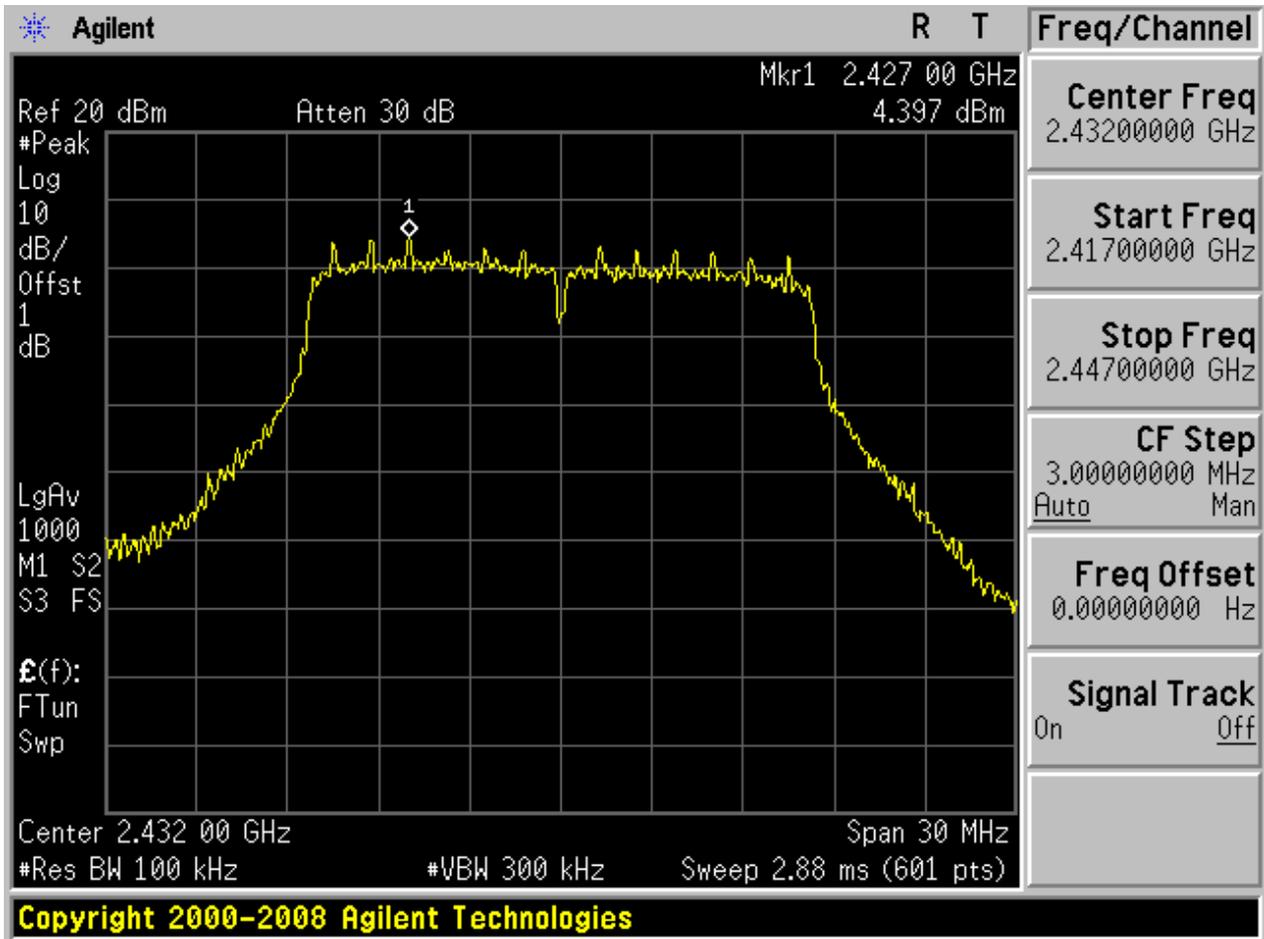






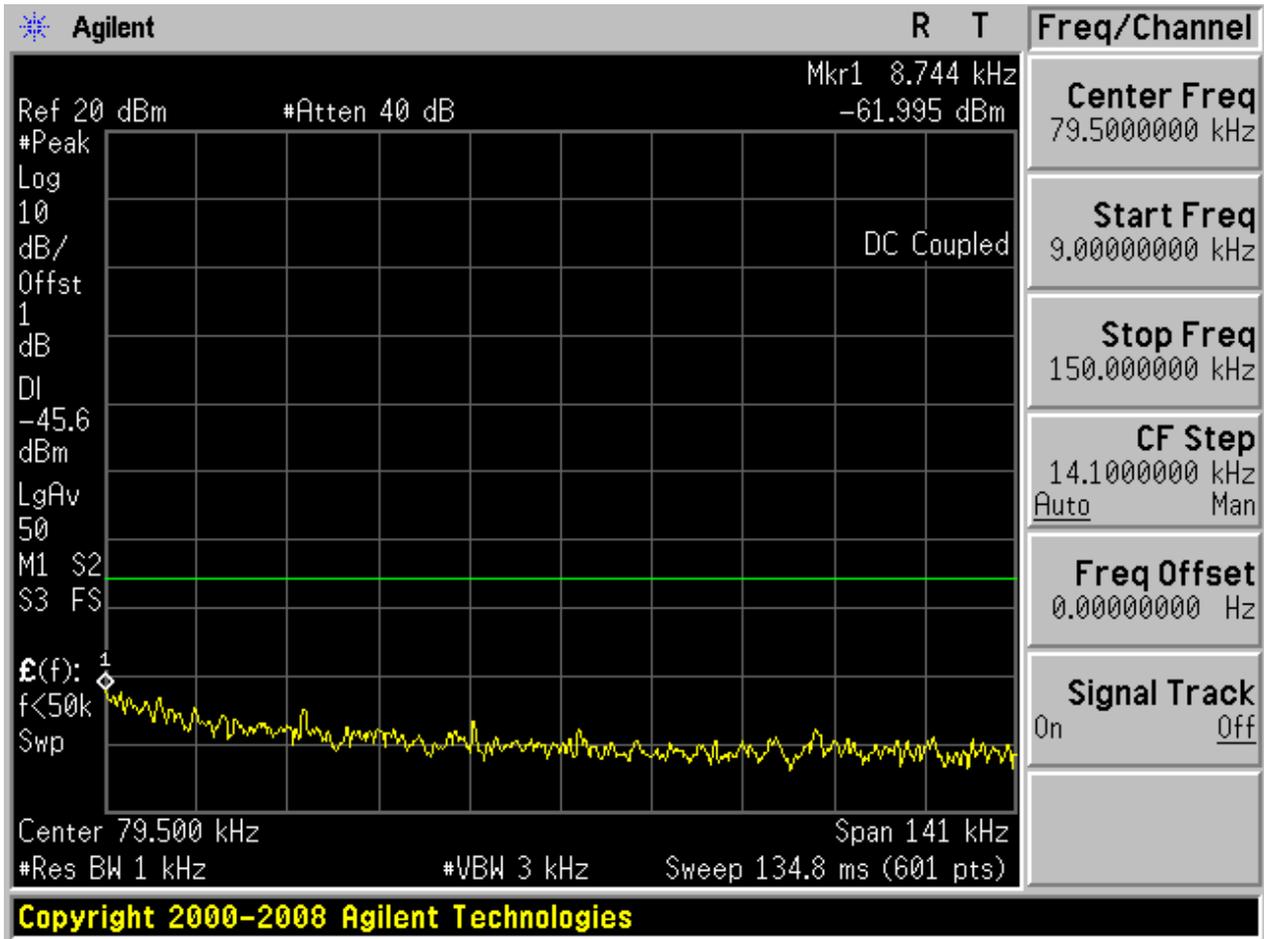
2.8 11G\_L@Ant 2

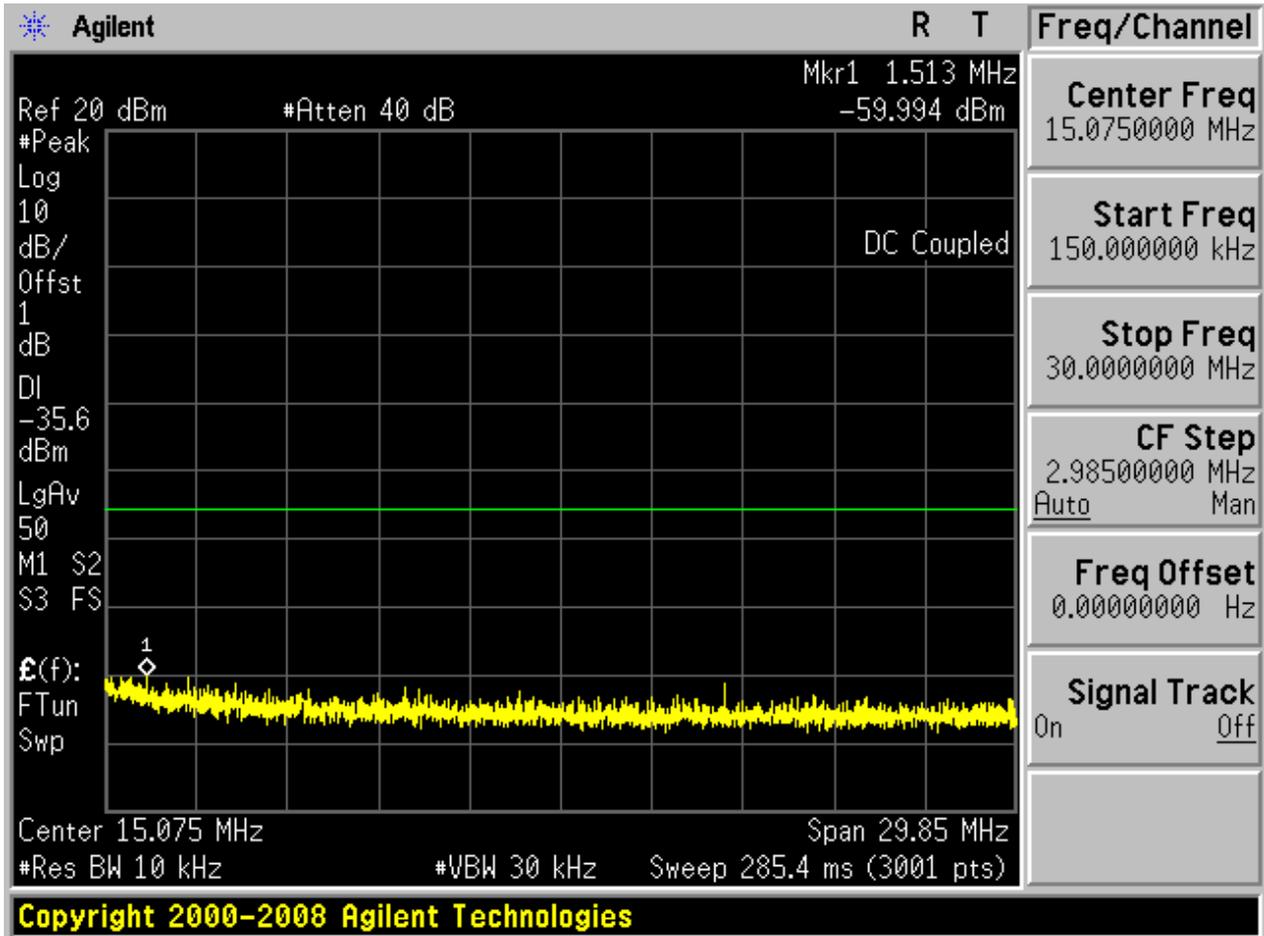
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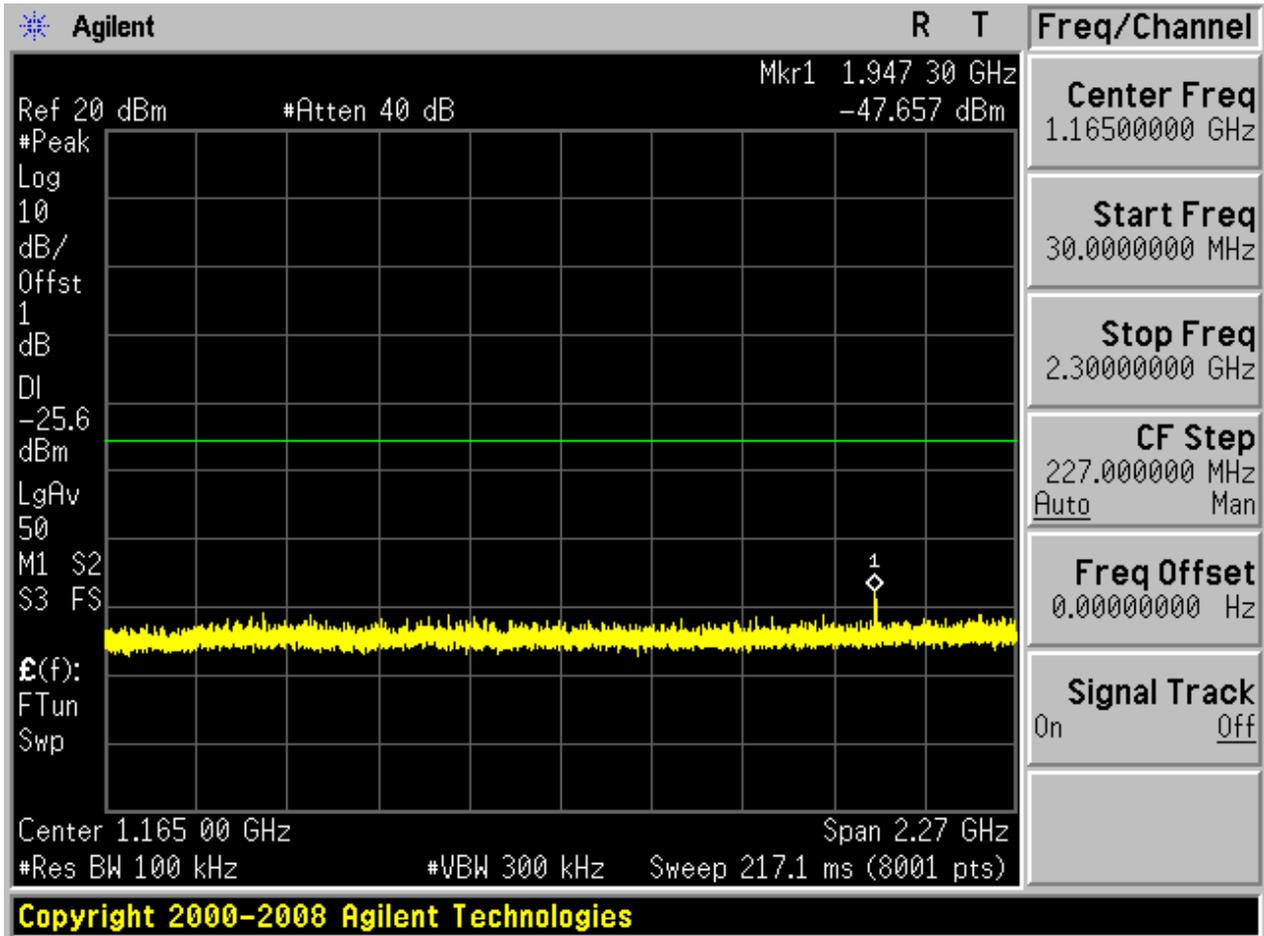


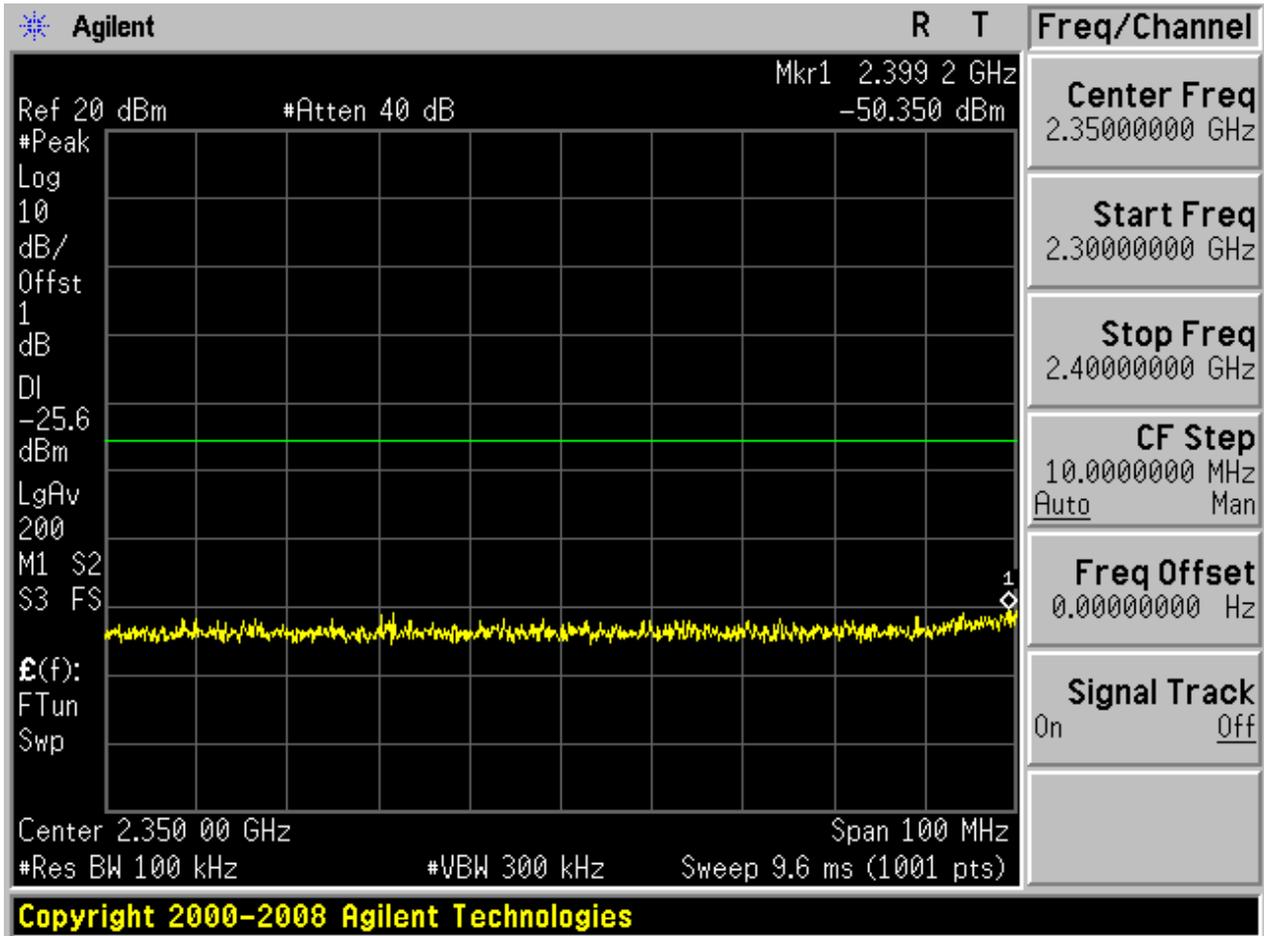


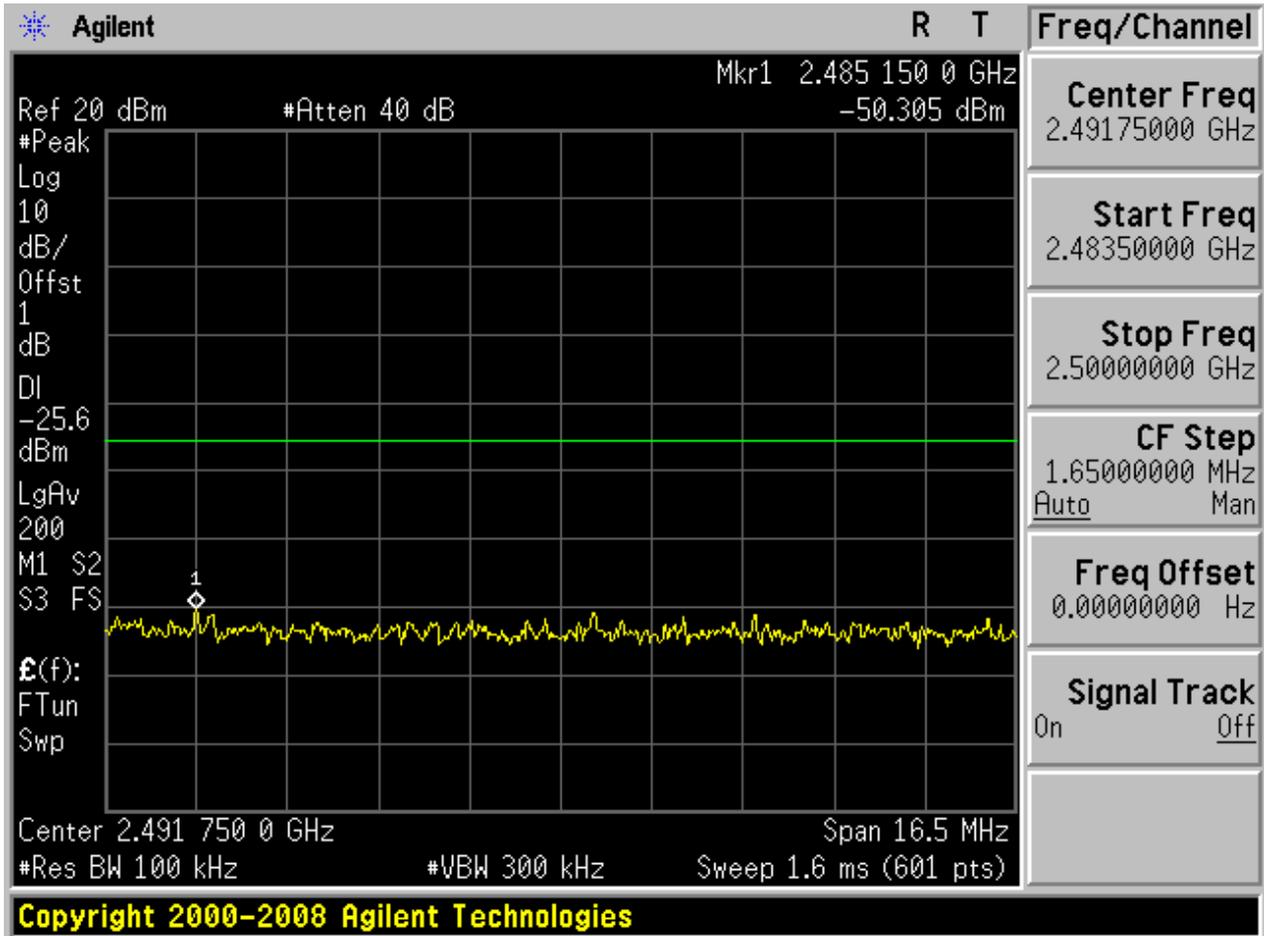
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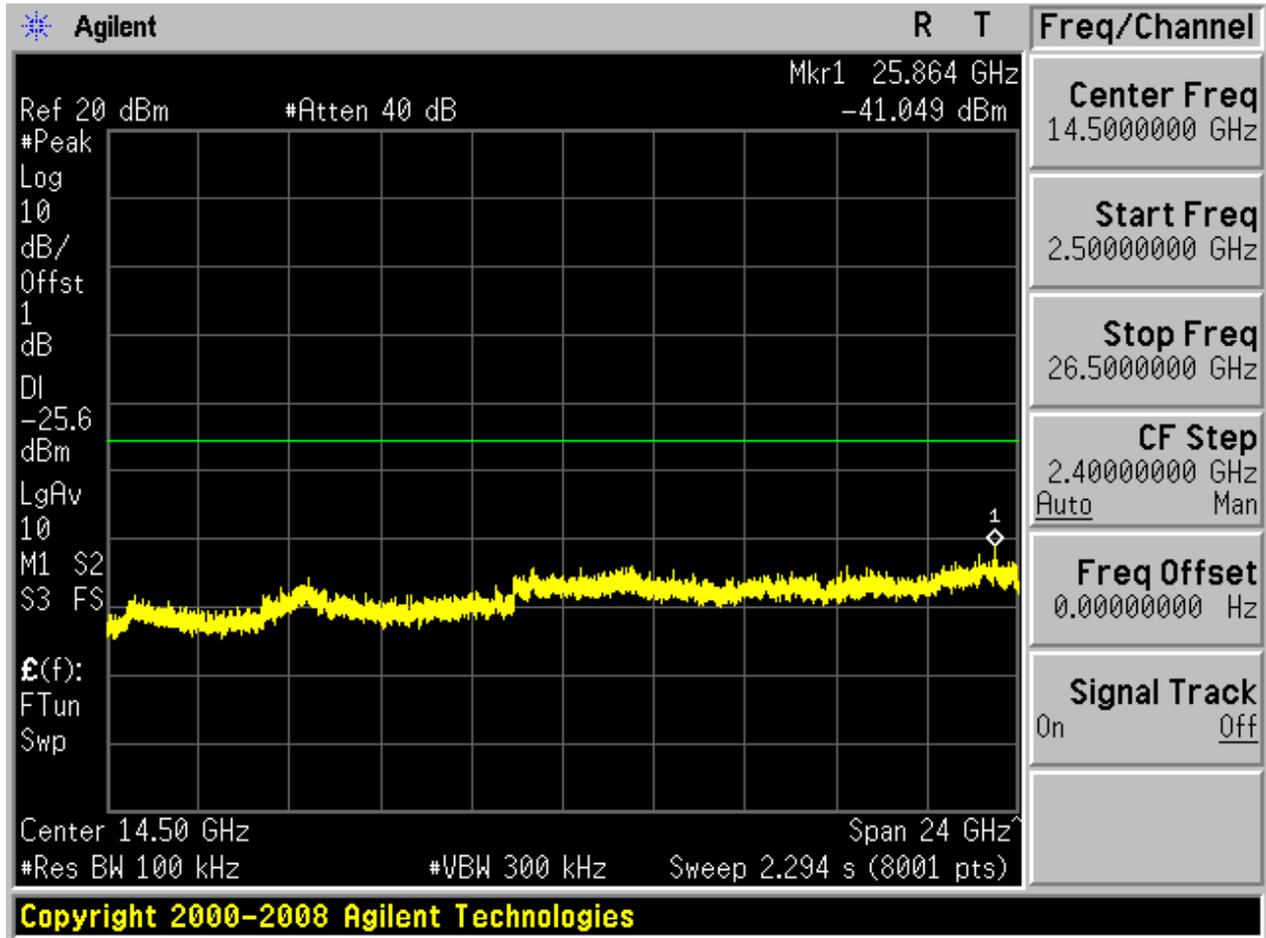








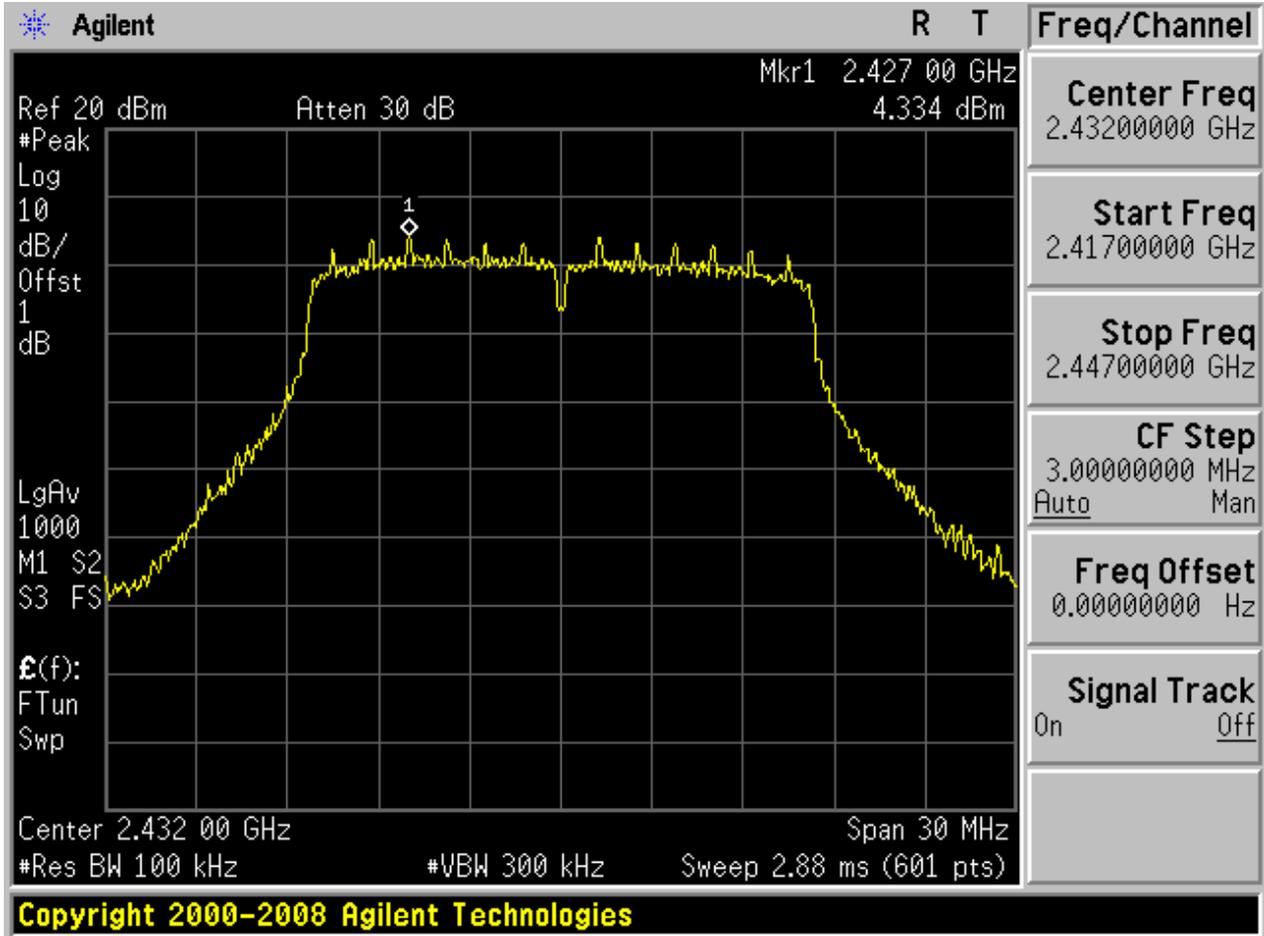






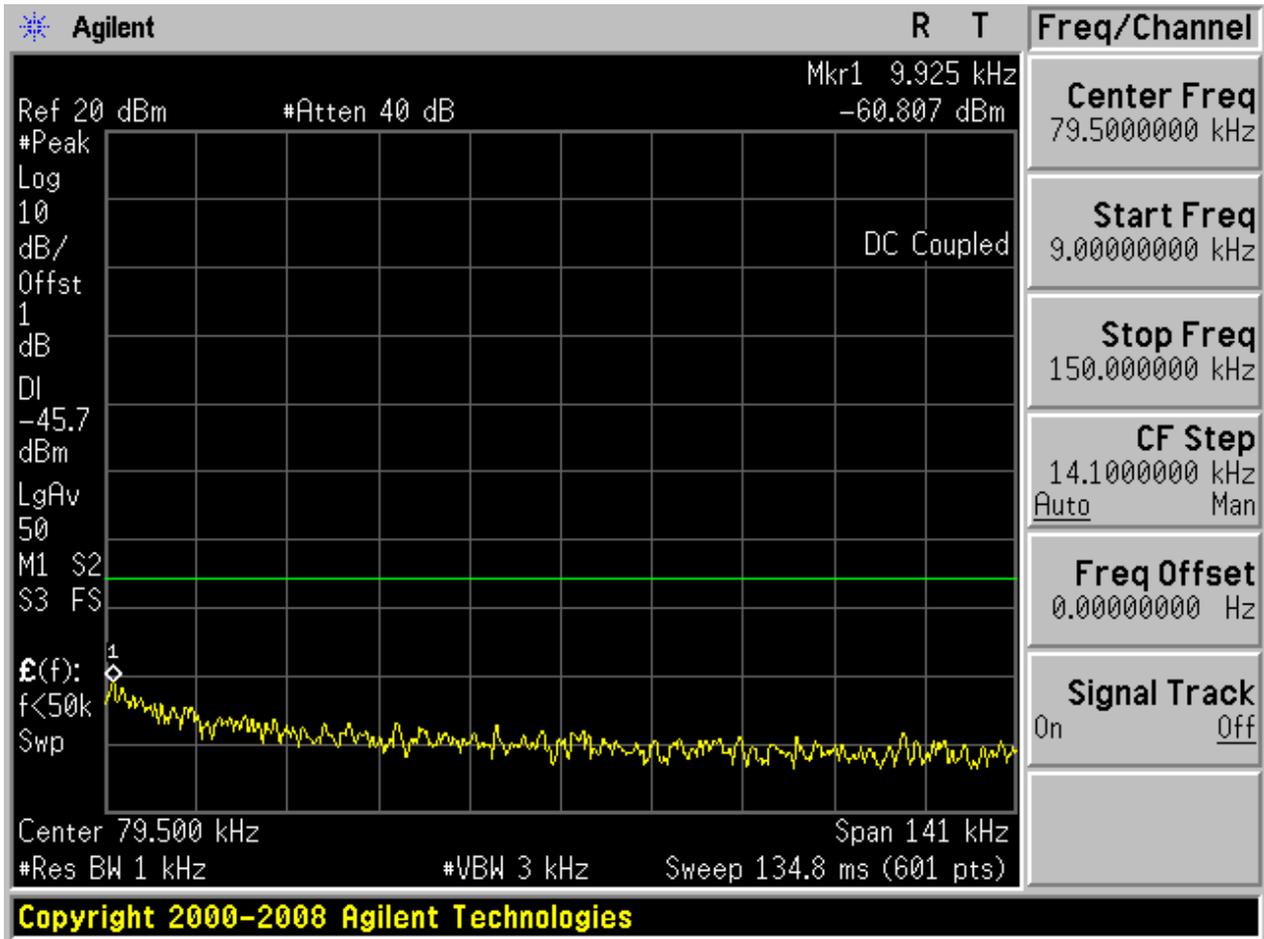
2.7 11G\_L@Ant 1

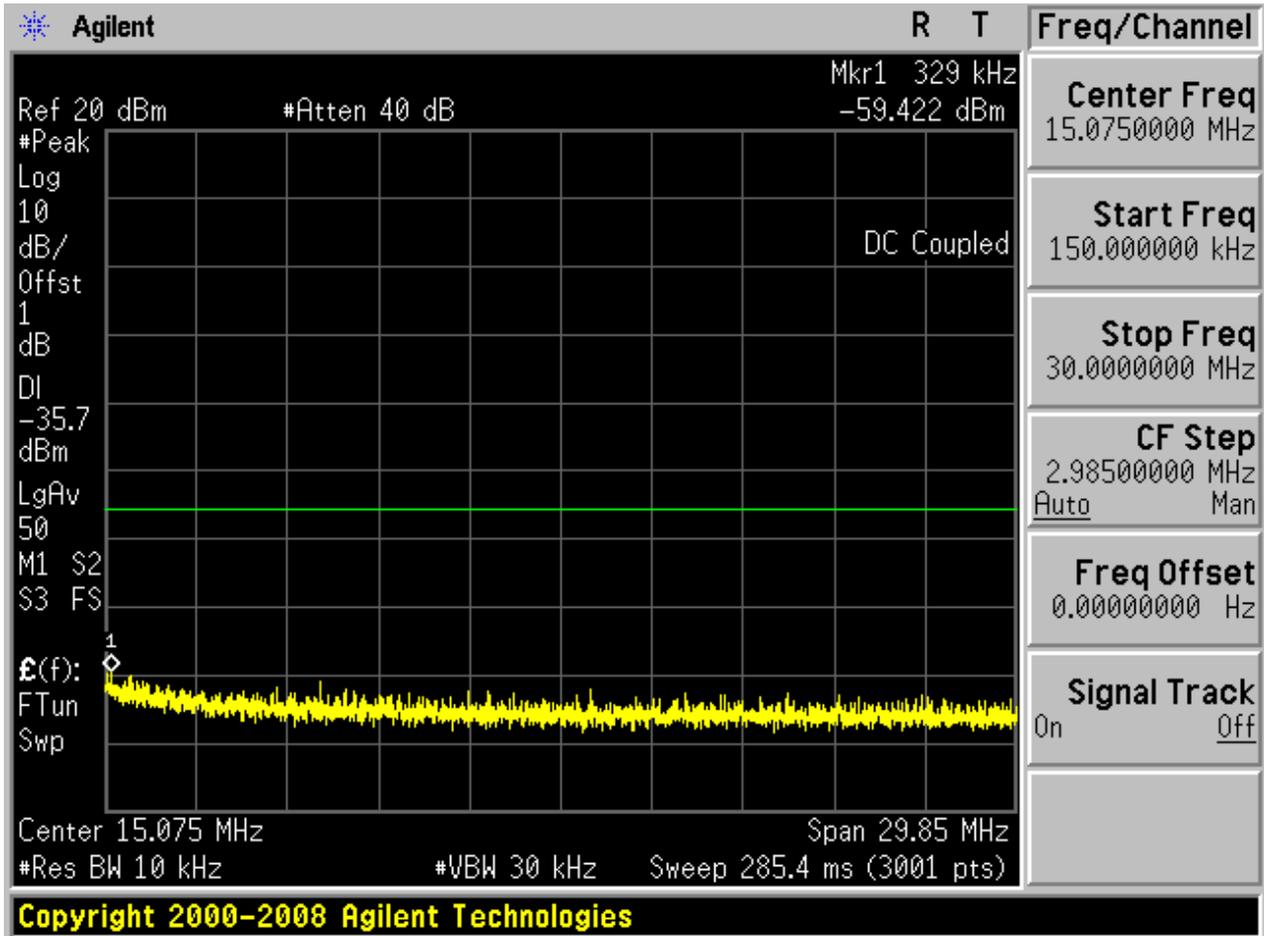
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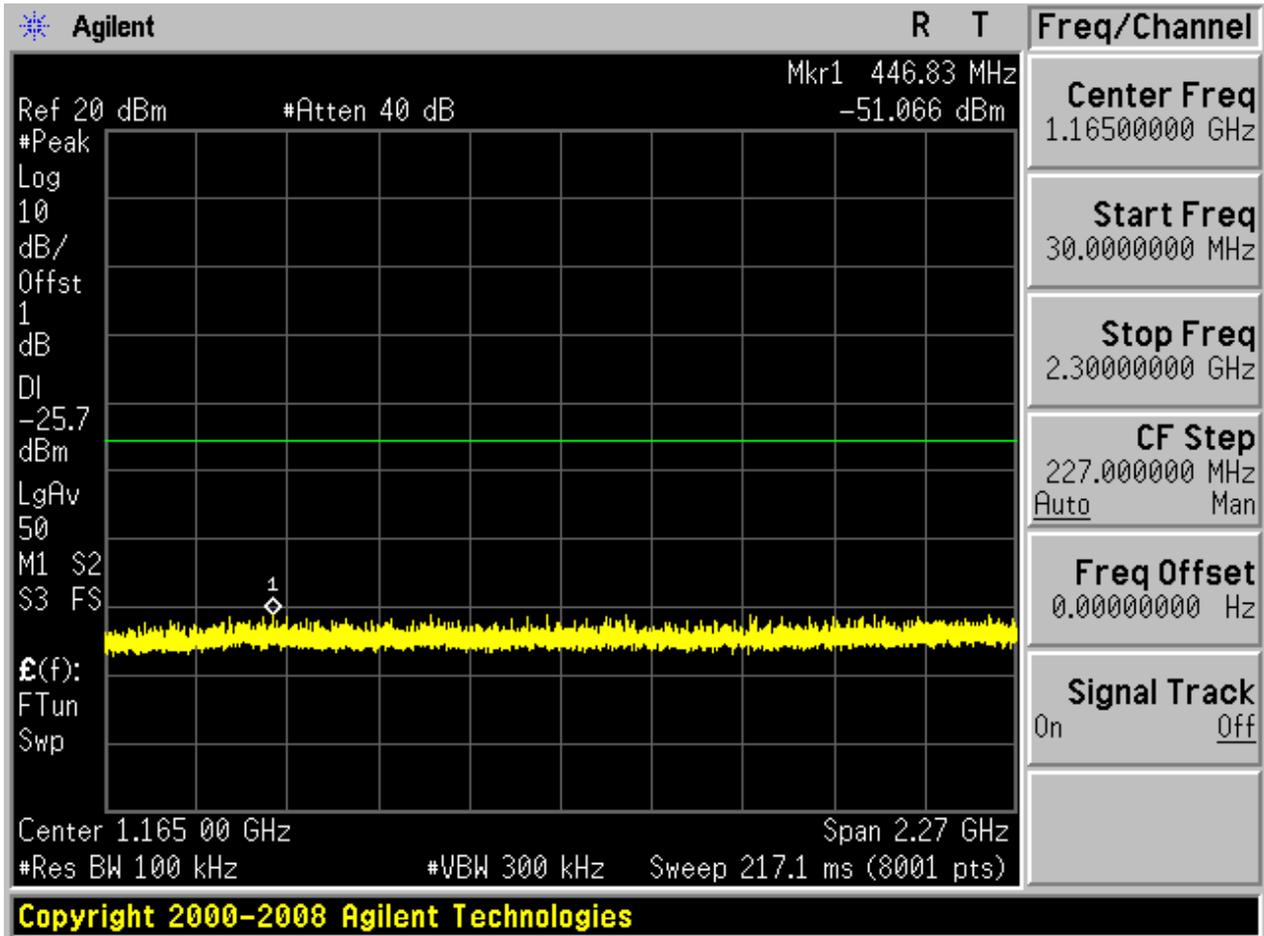


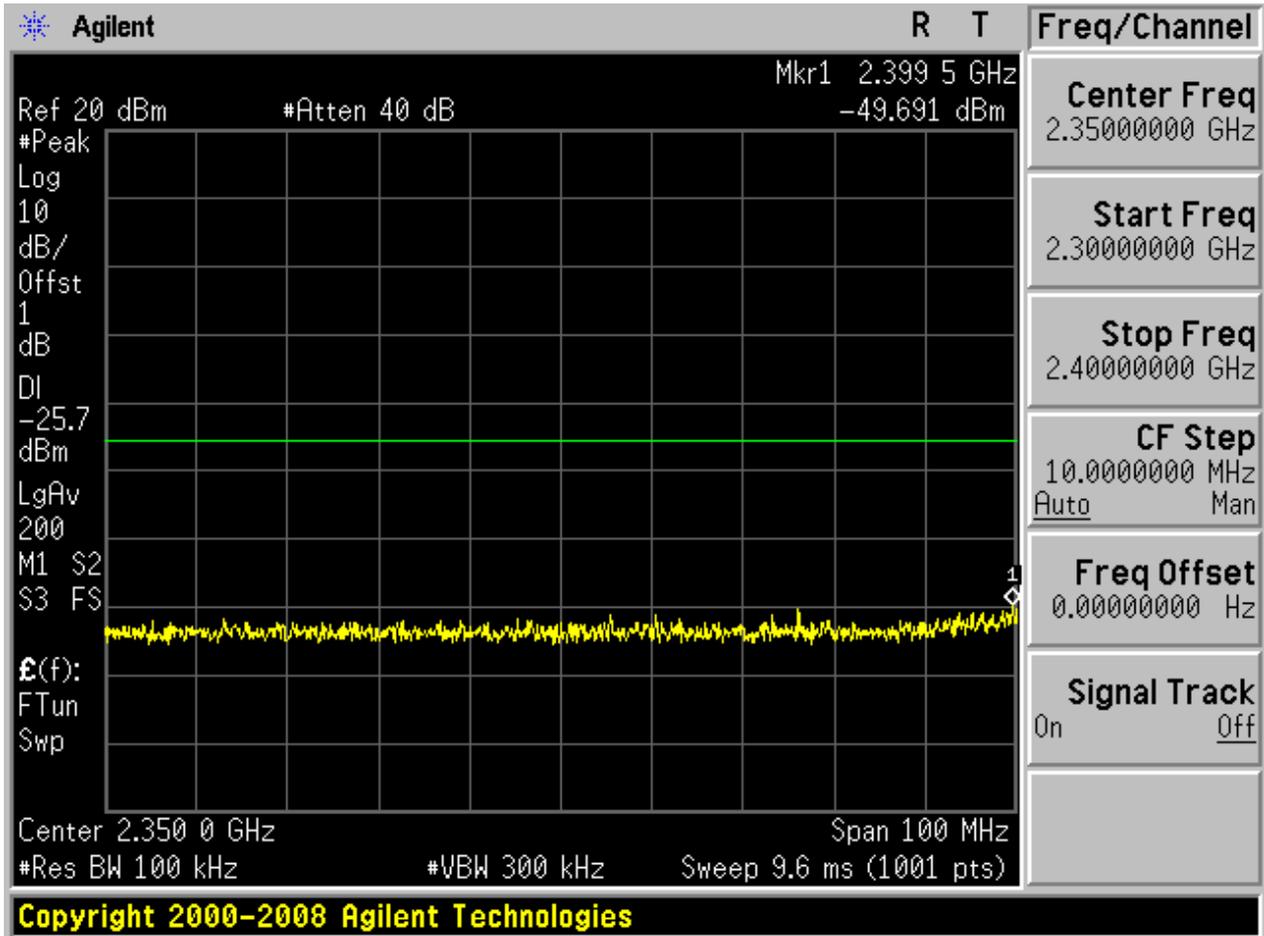


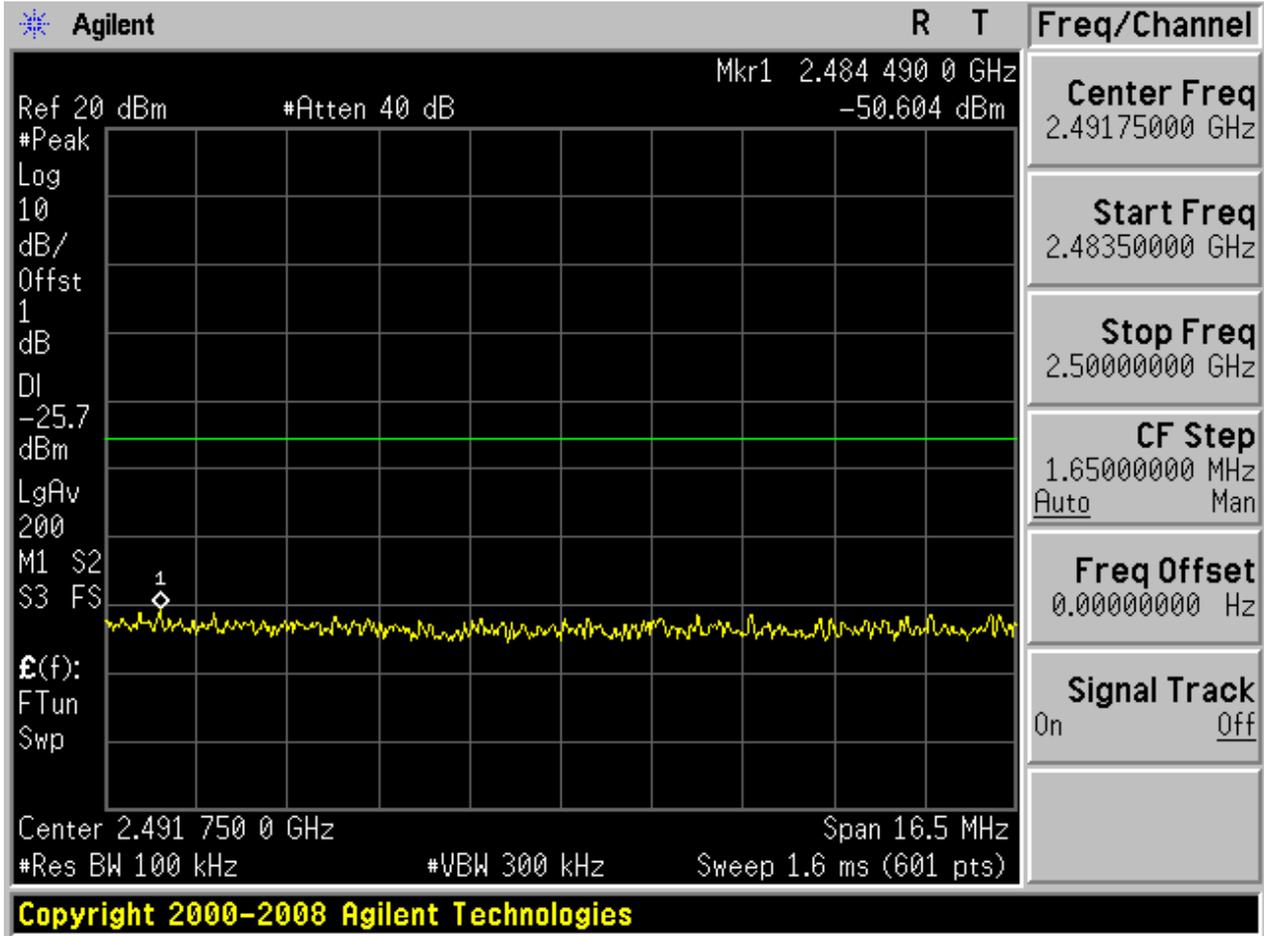
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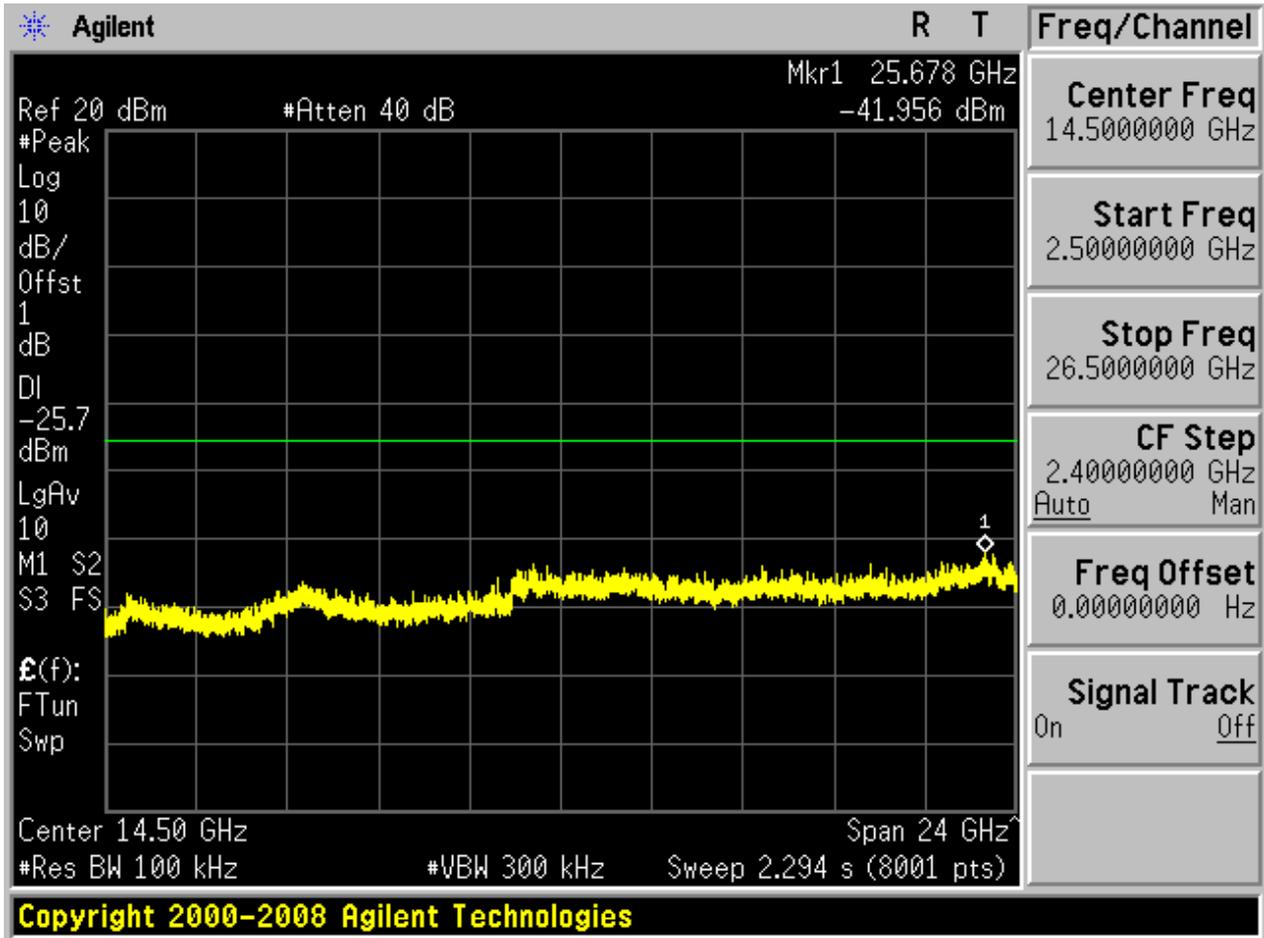






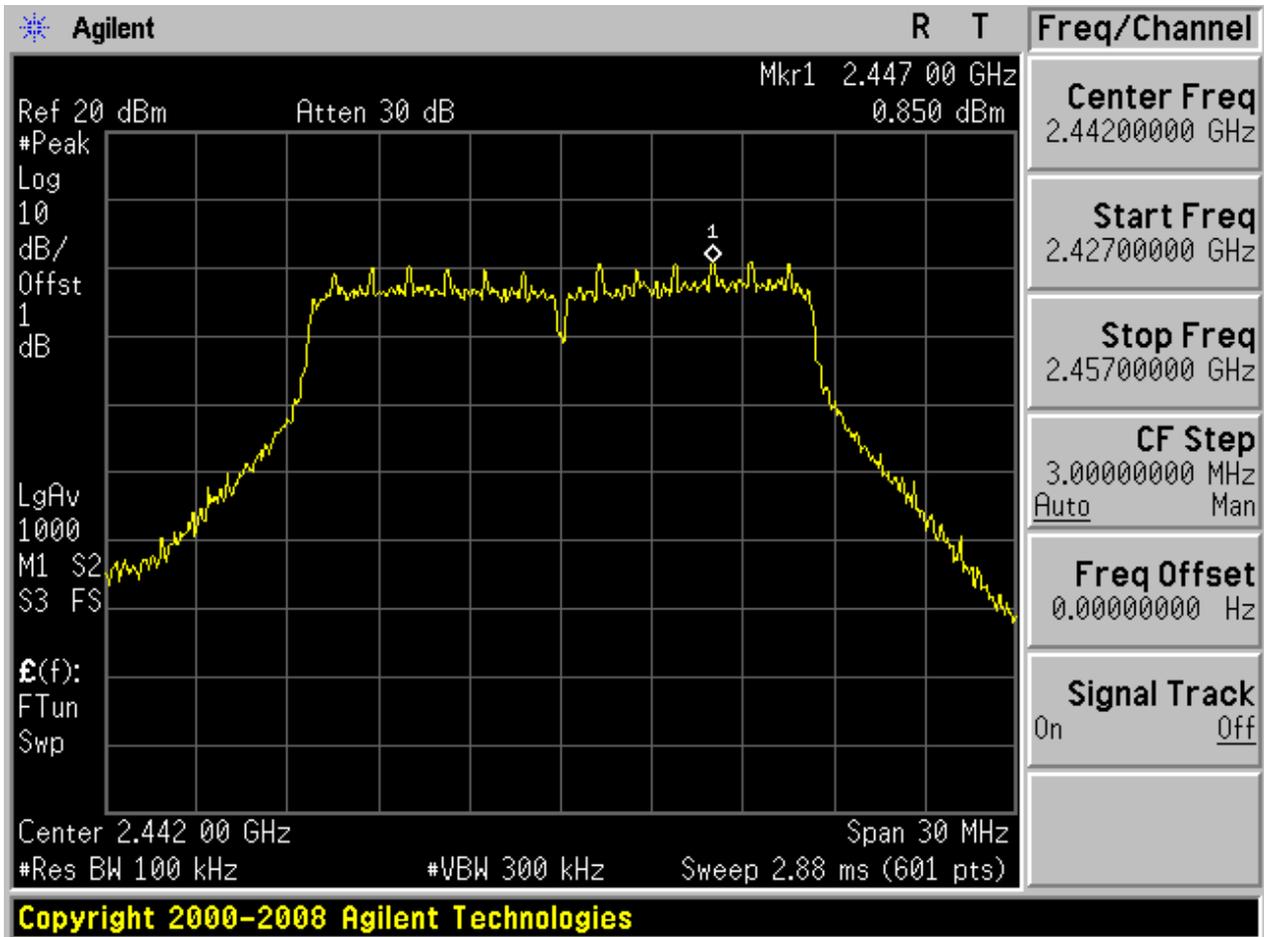






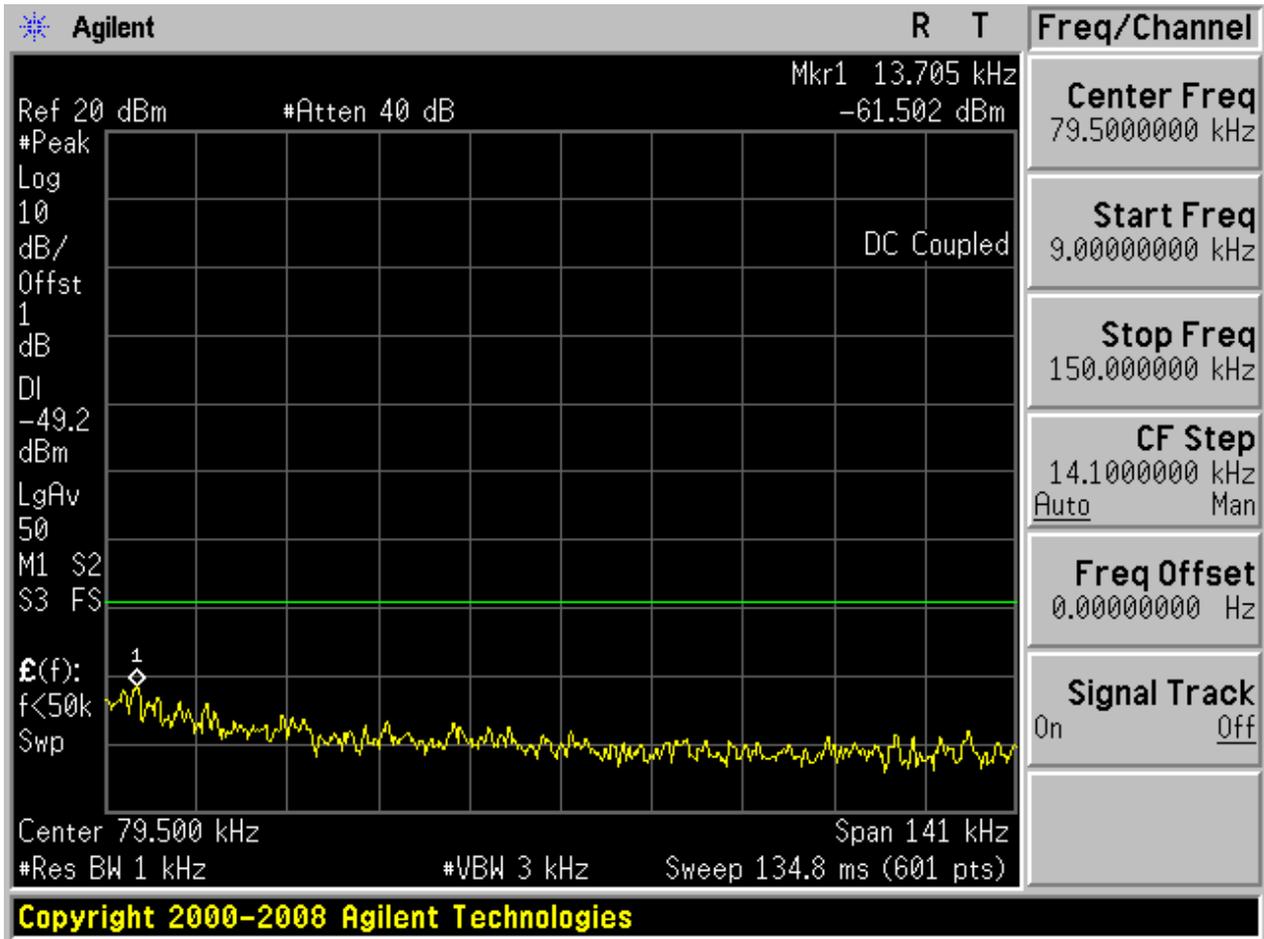
2.10 11G\_M@Ant 2

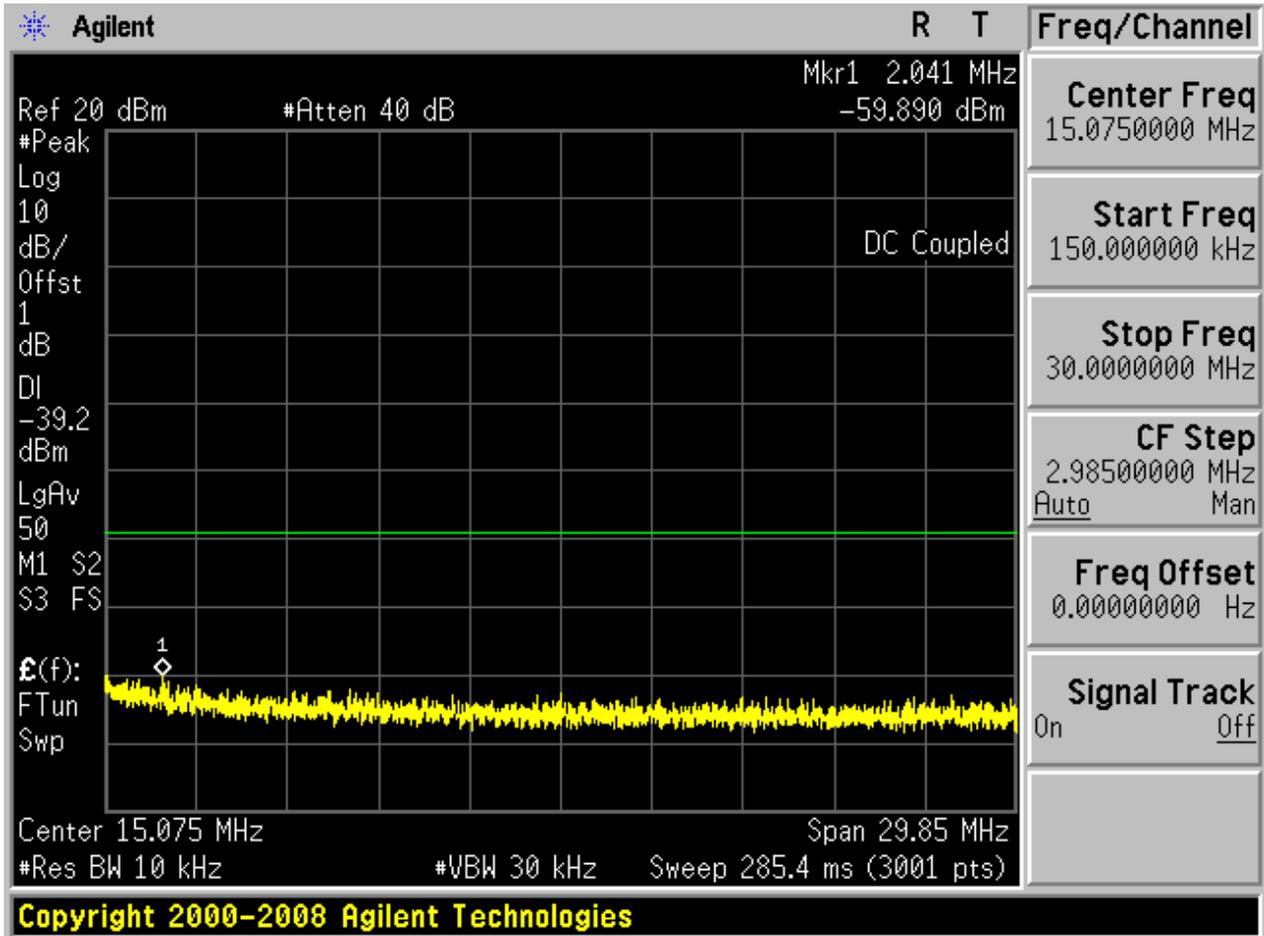
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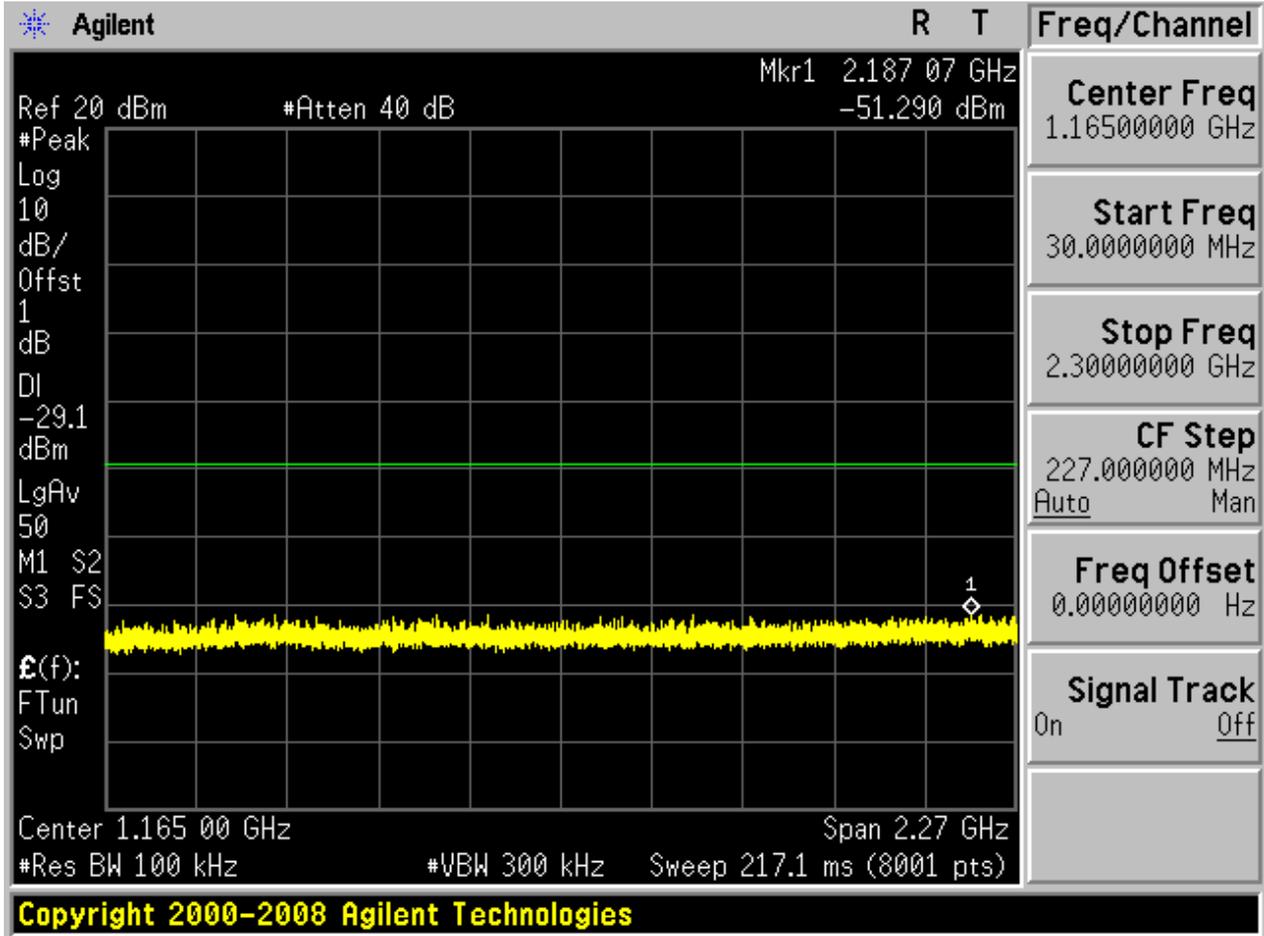


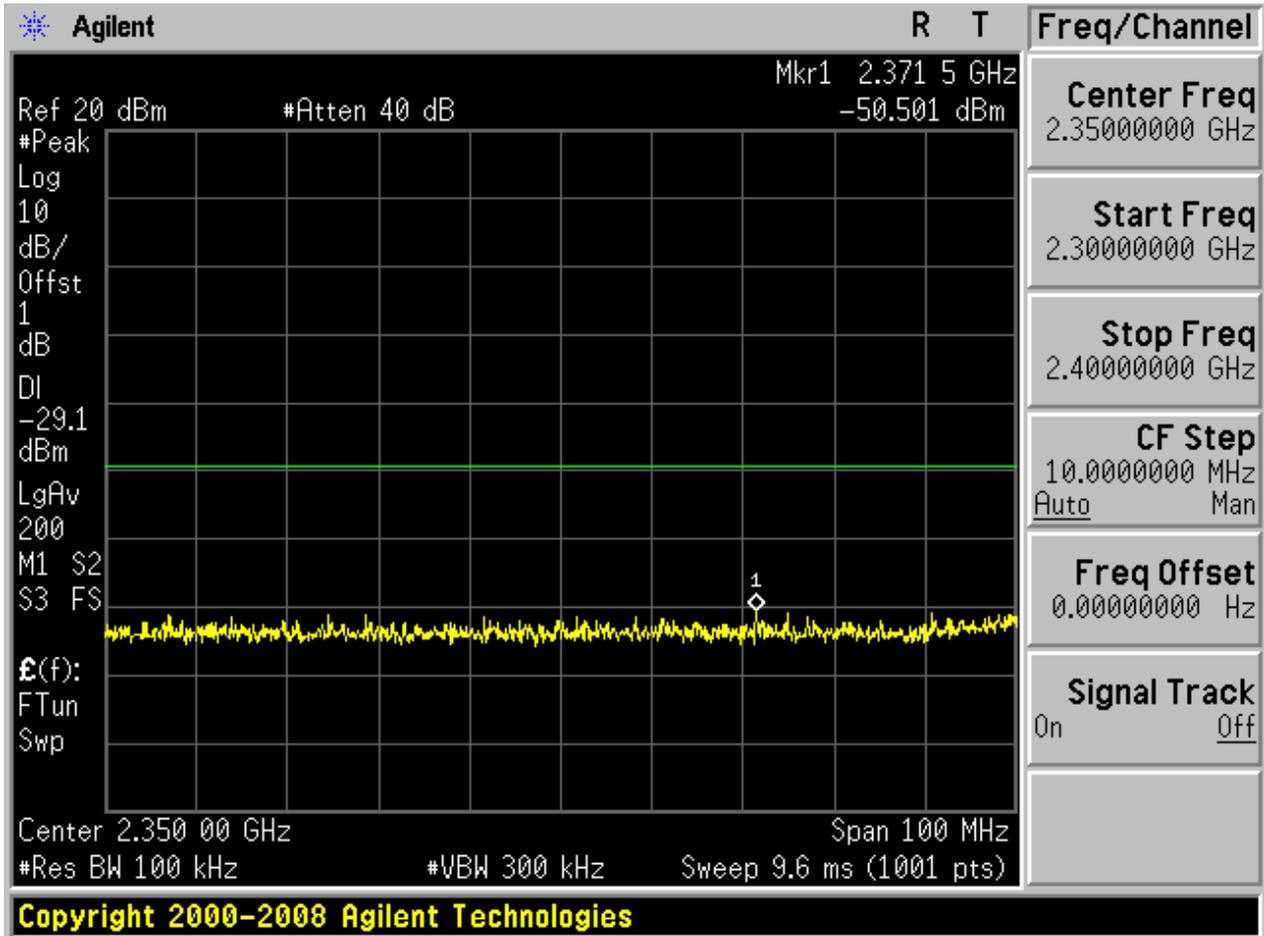


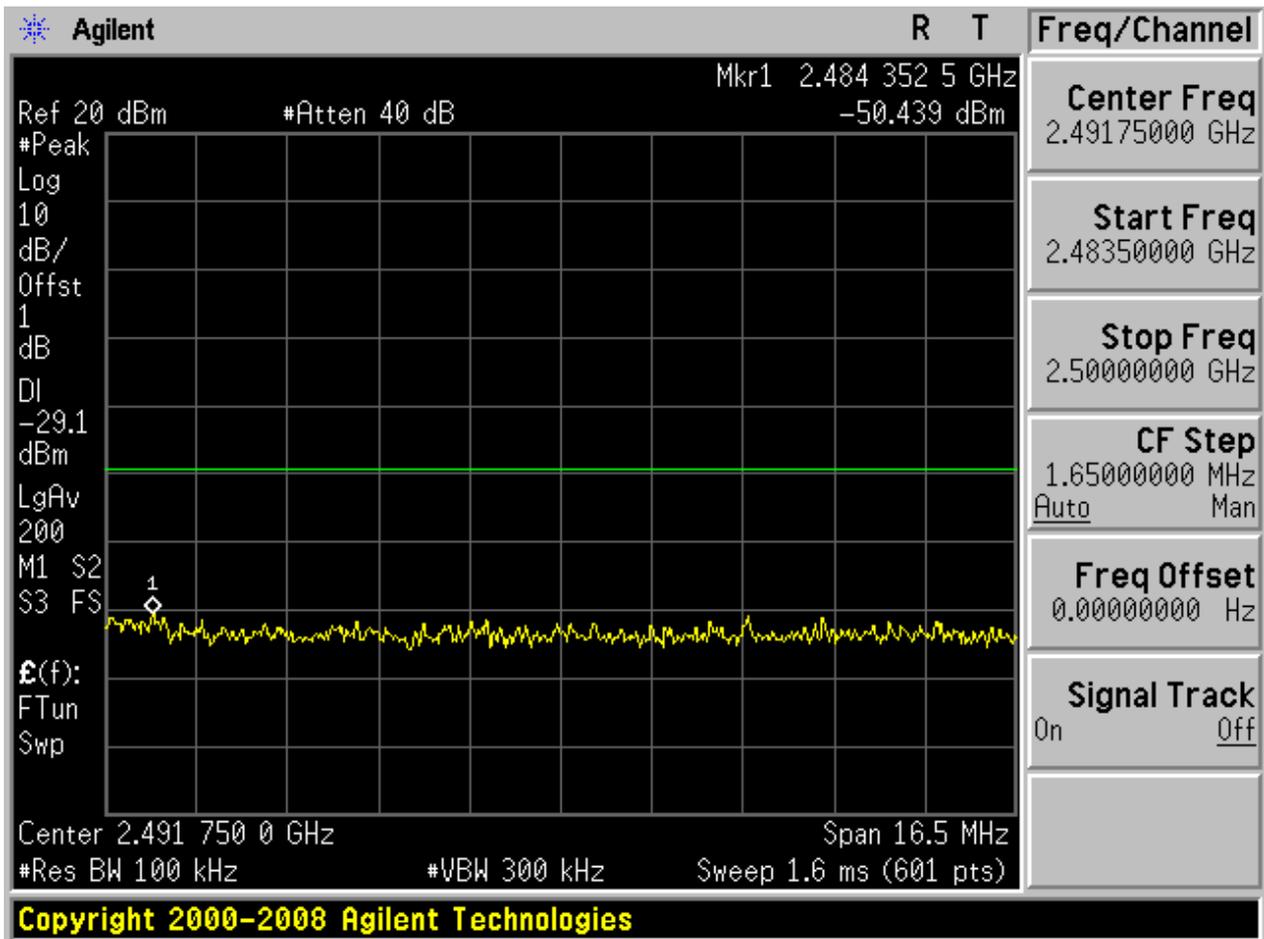
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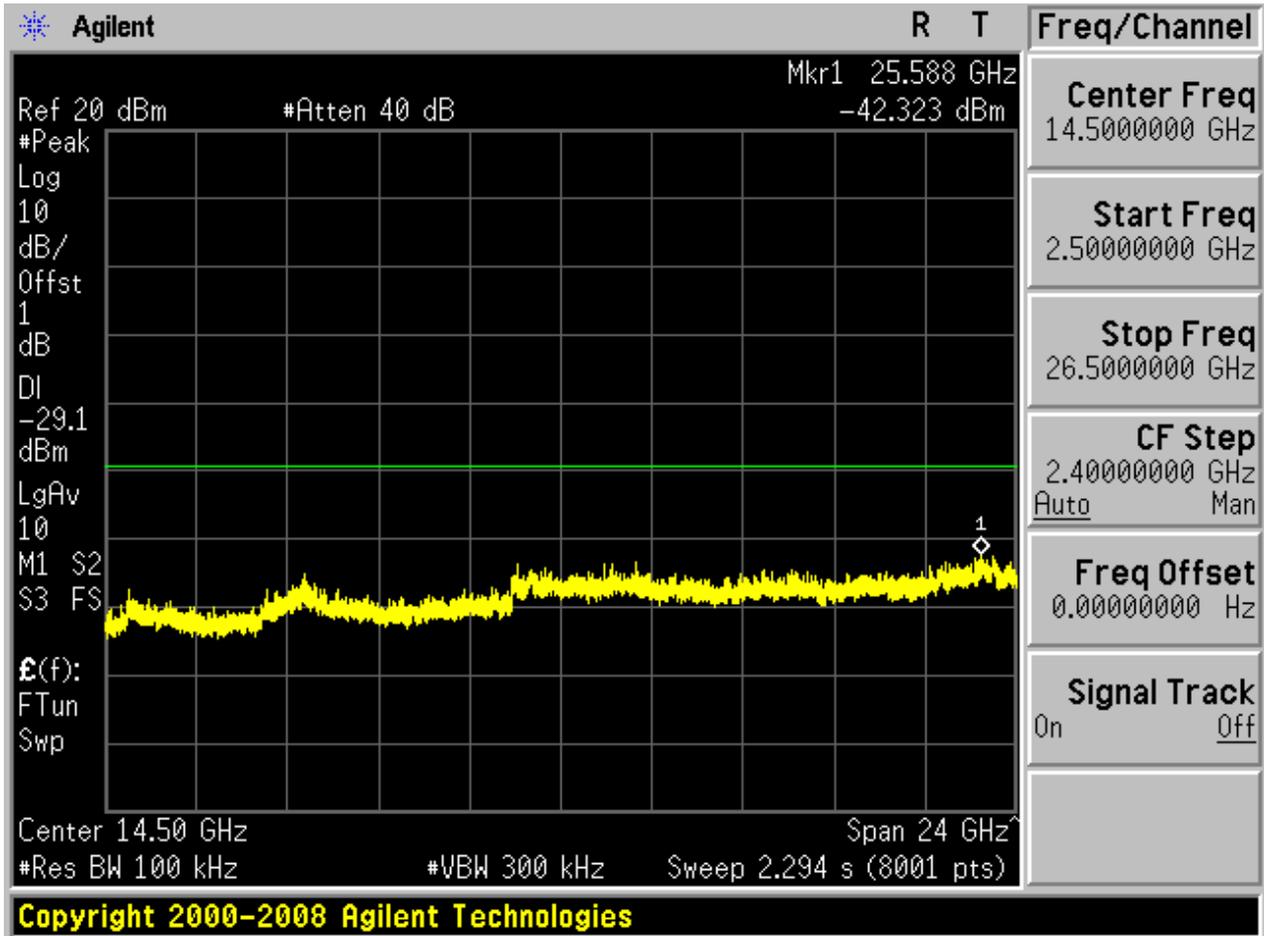








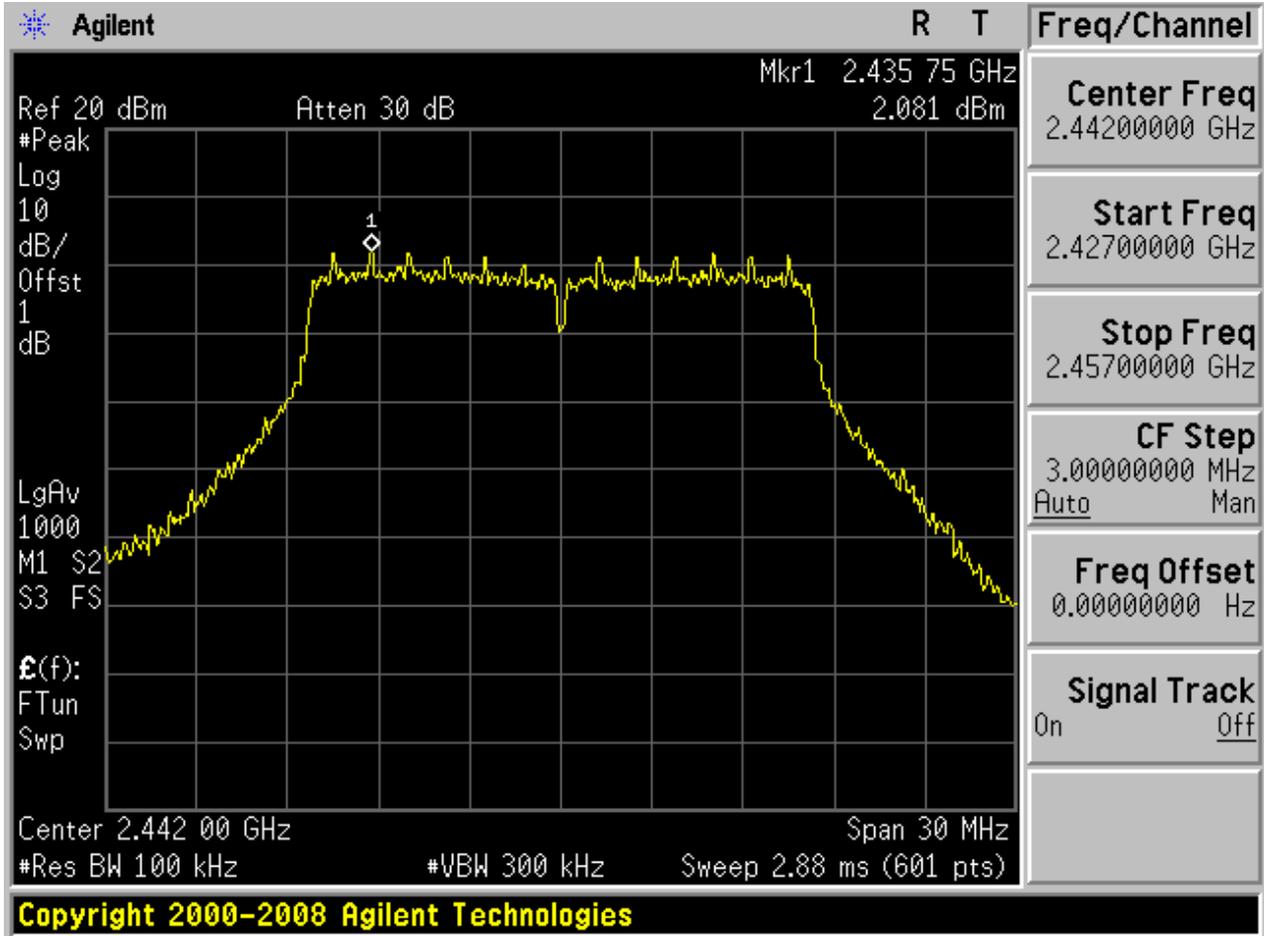






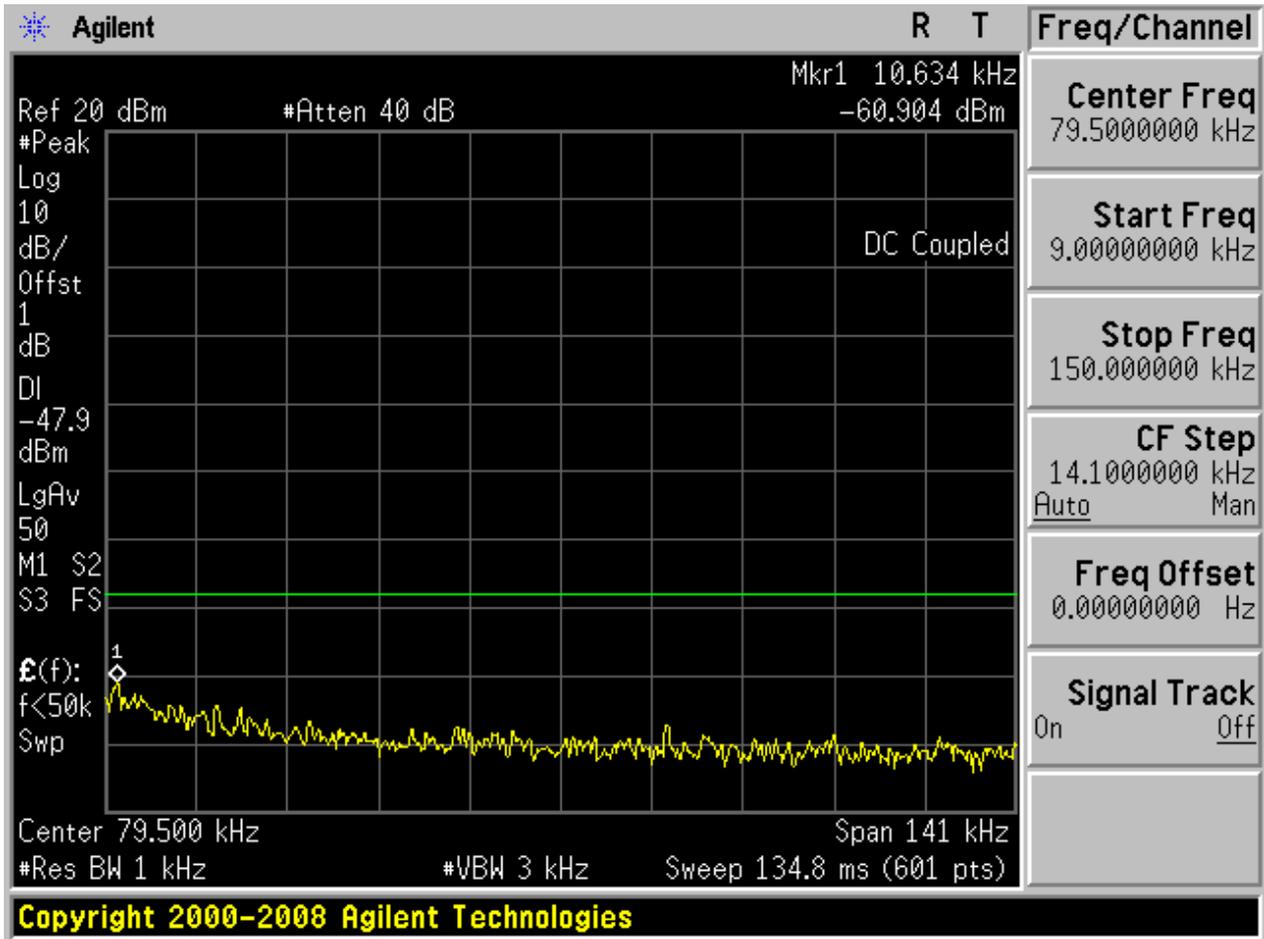
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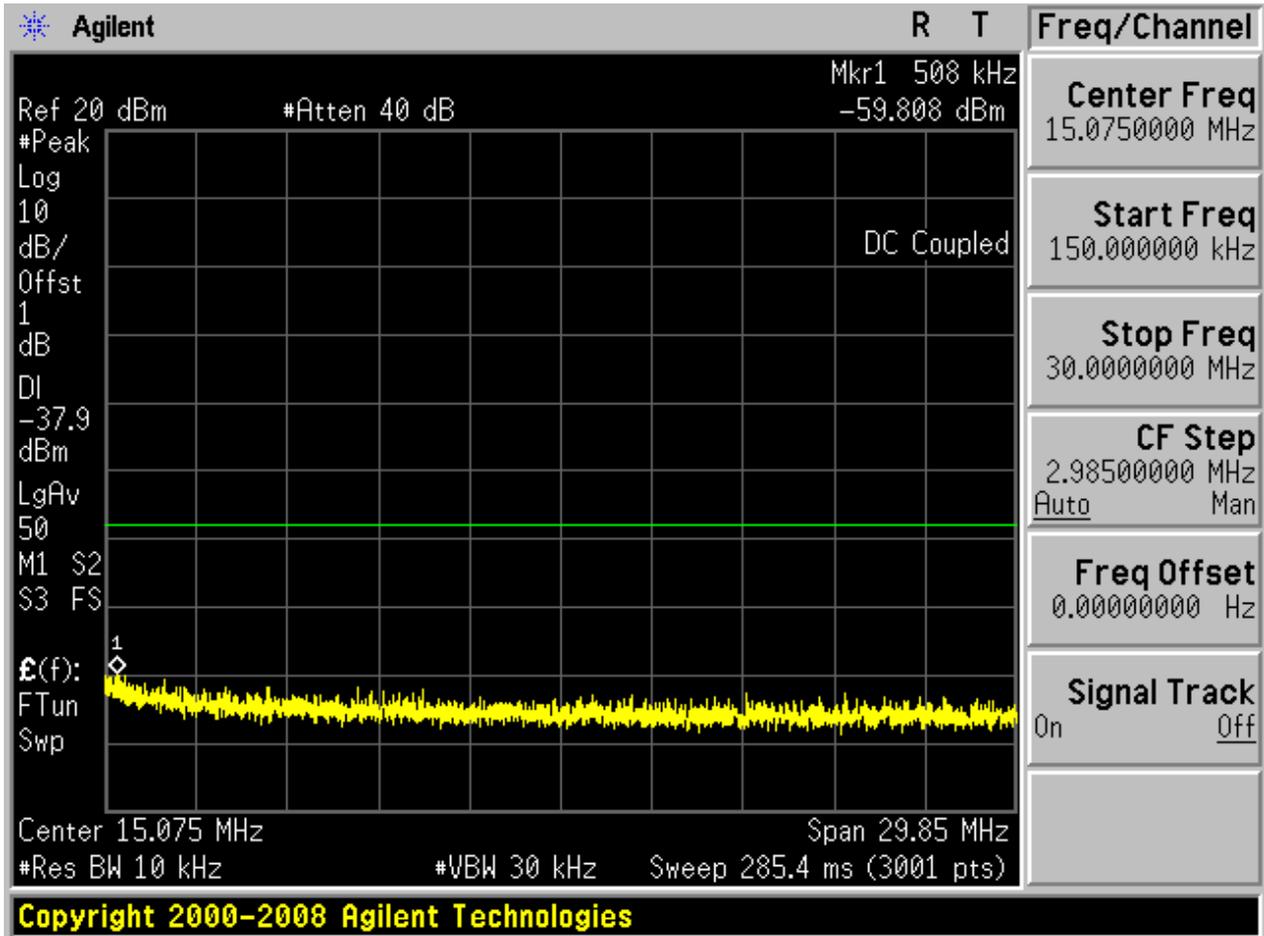
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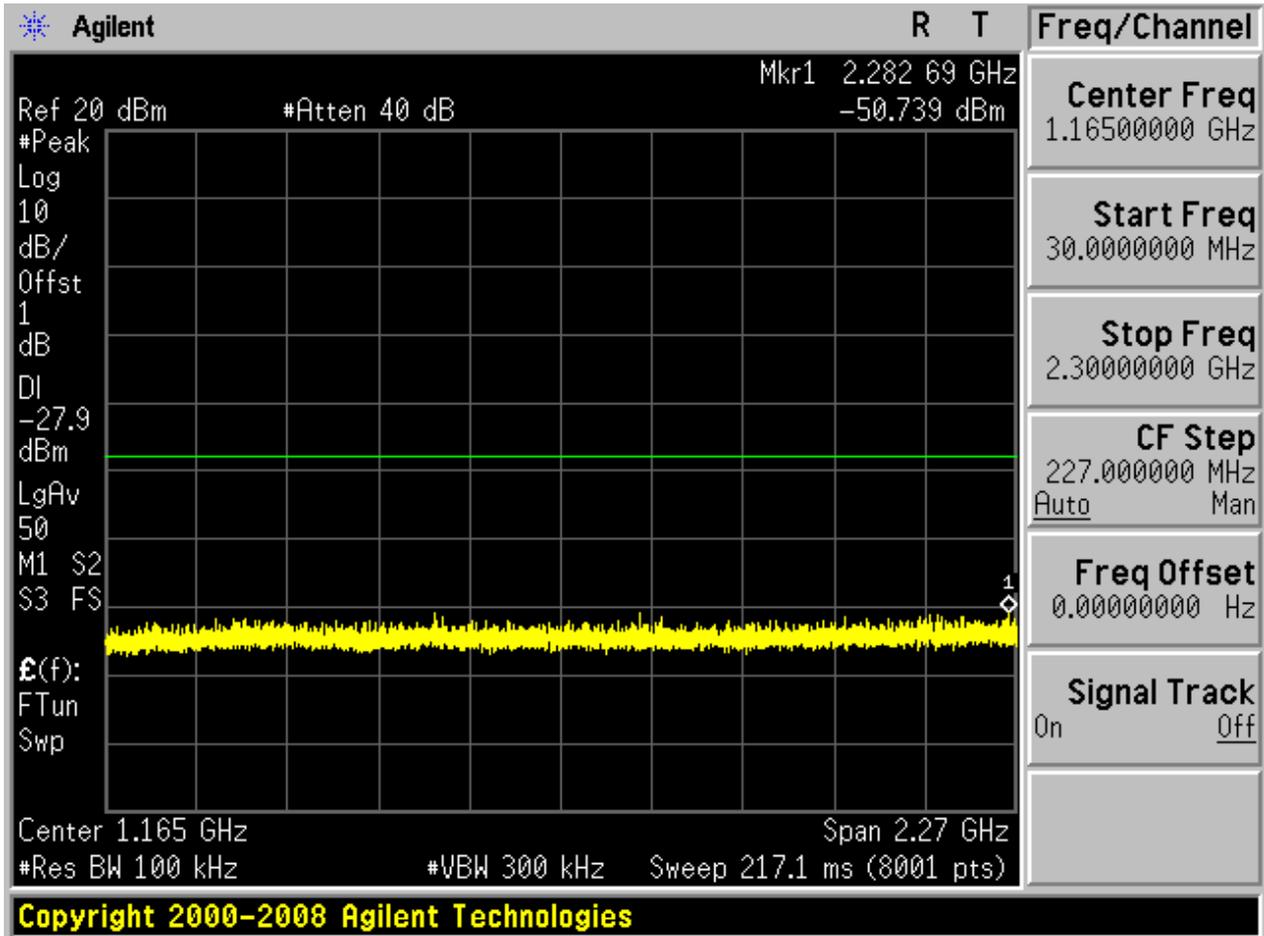


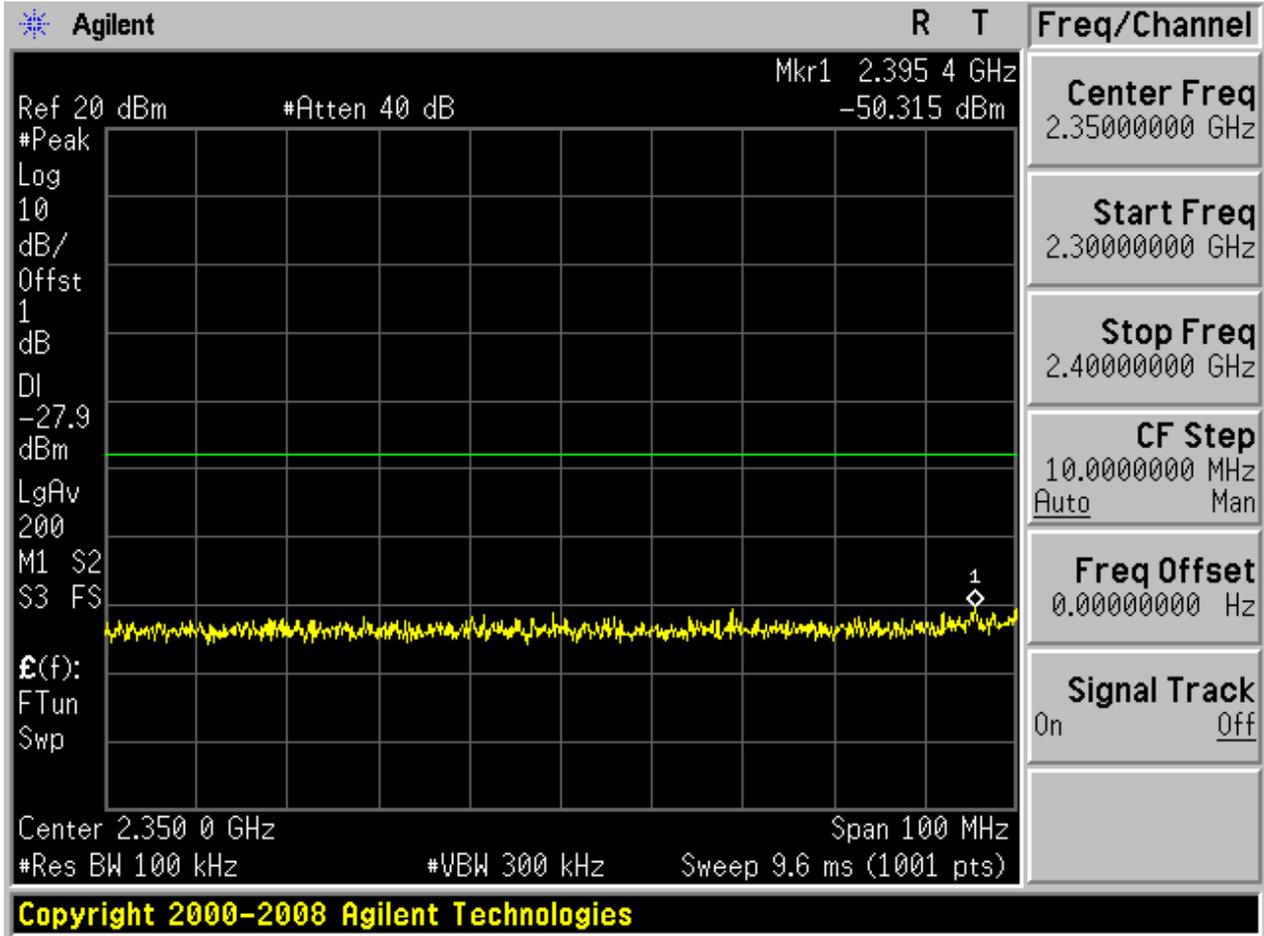


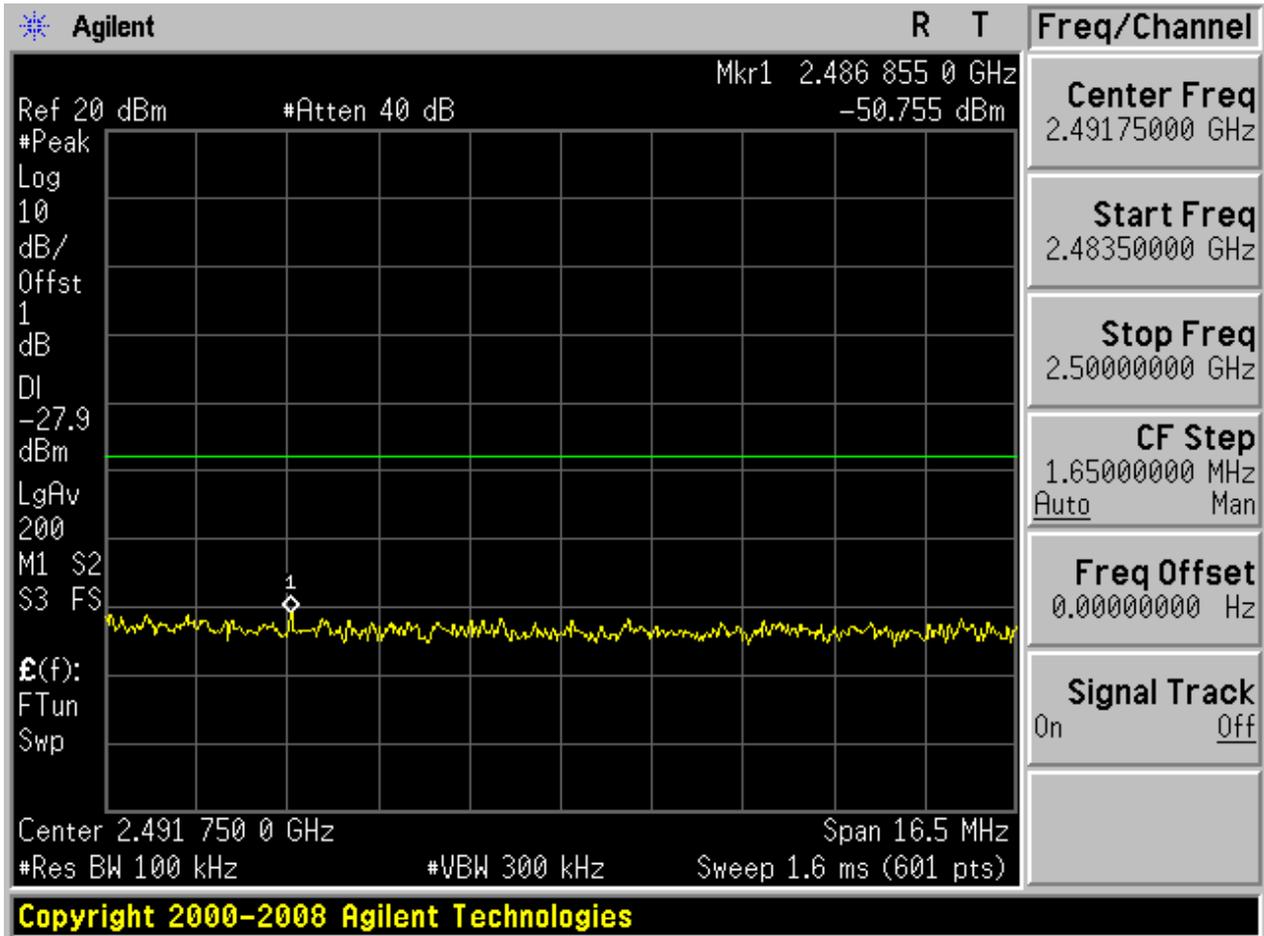
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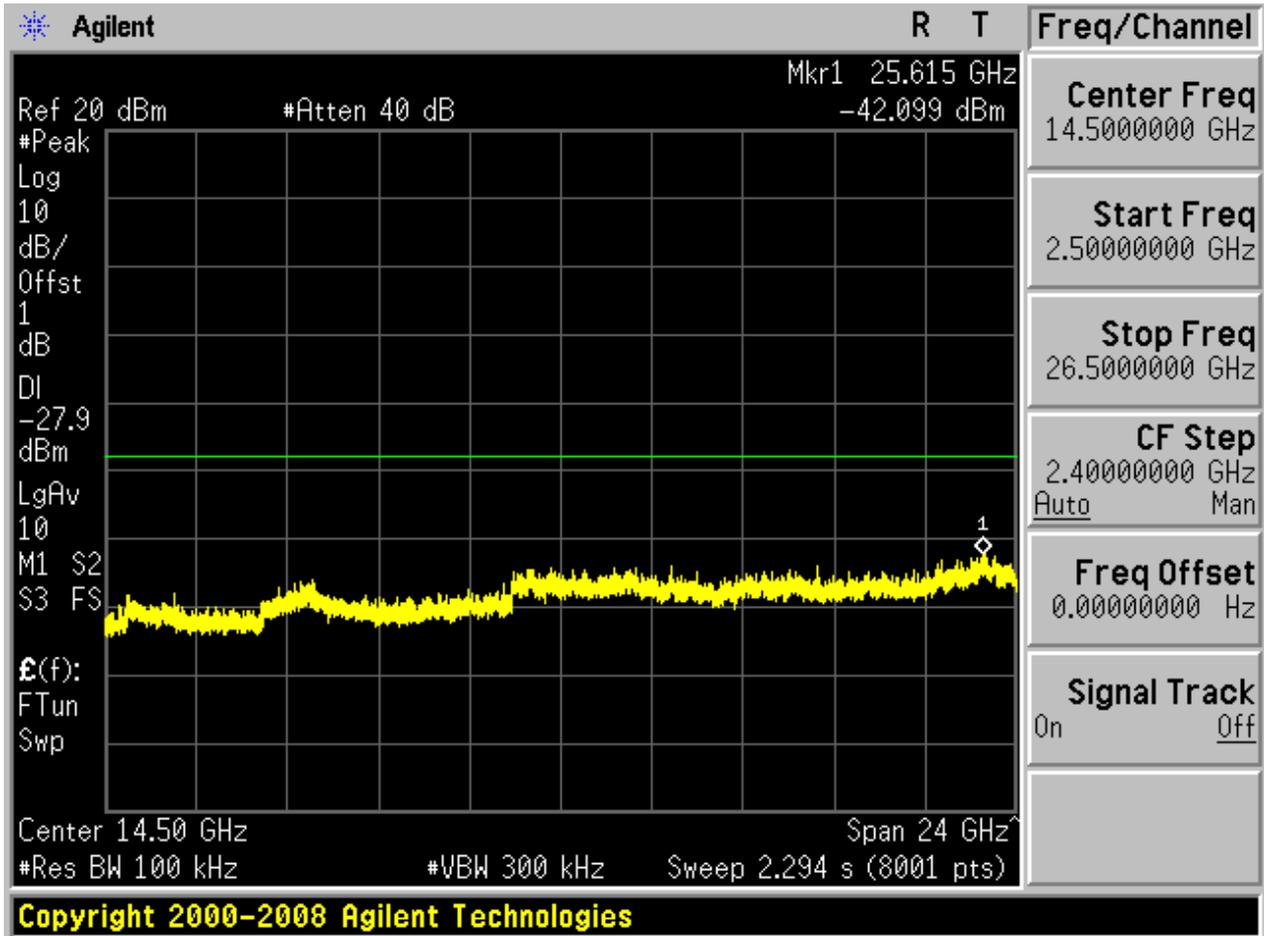








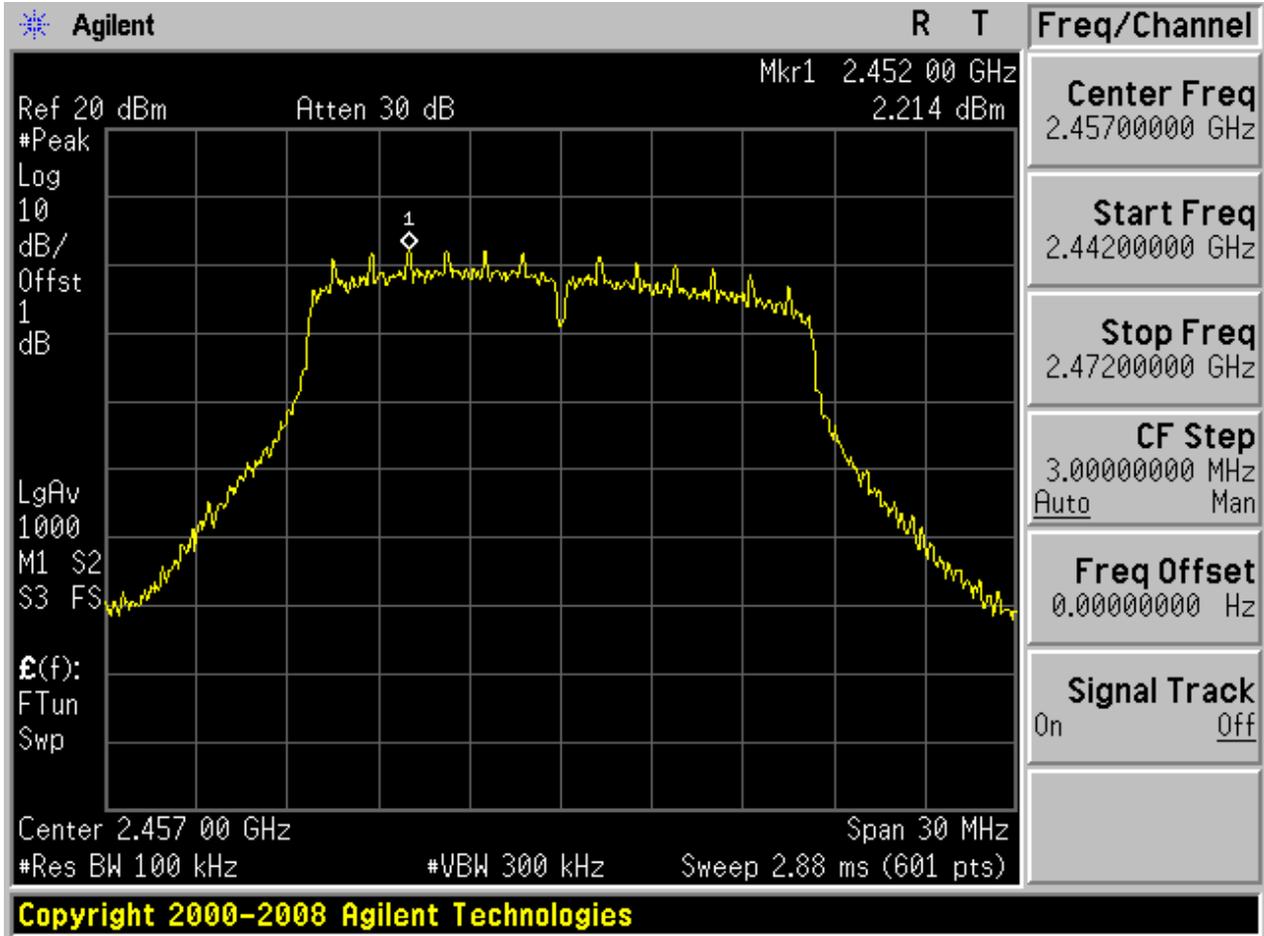






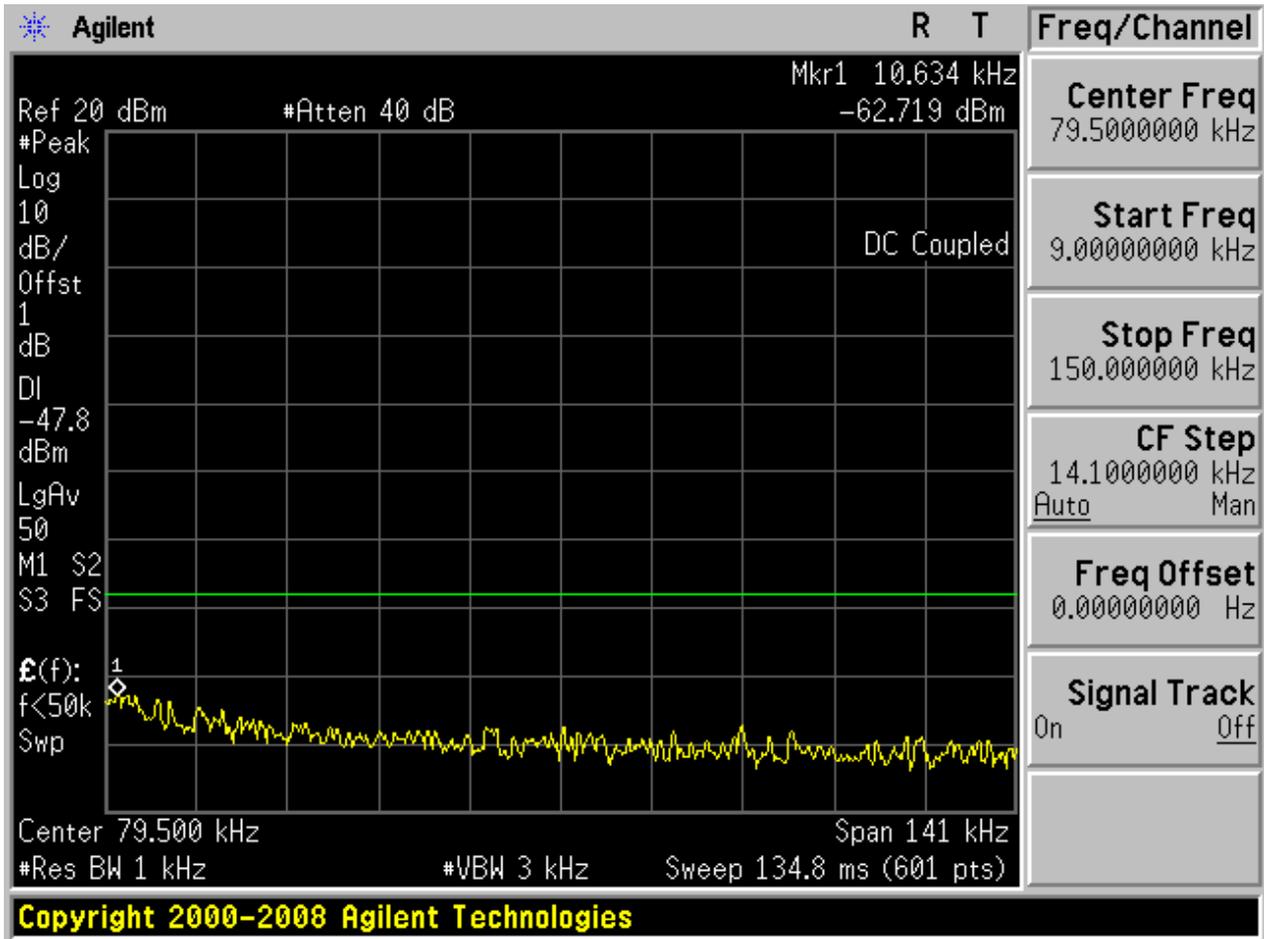
2.12 11G\_H@Ant 2

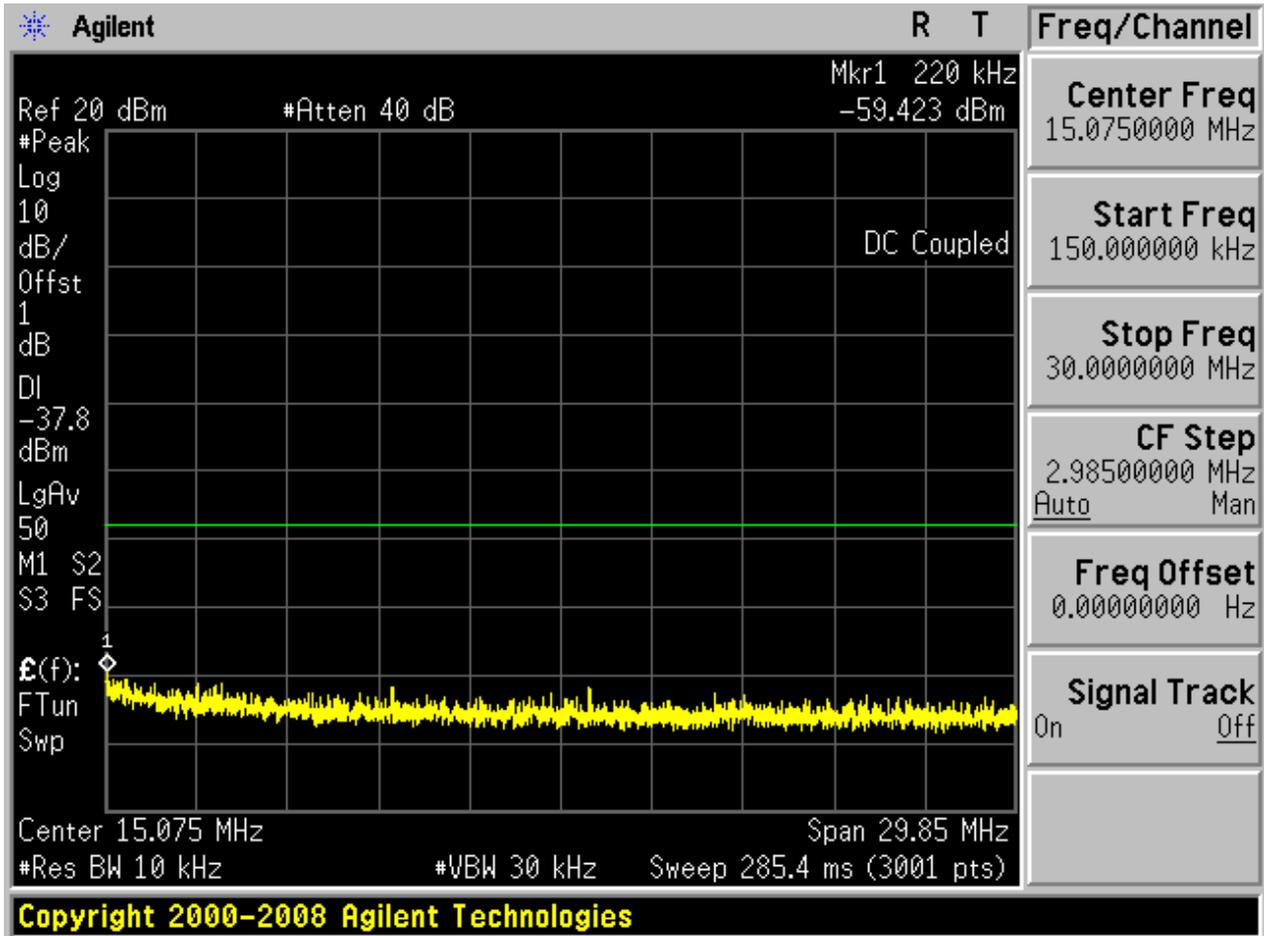
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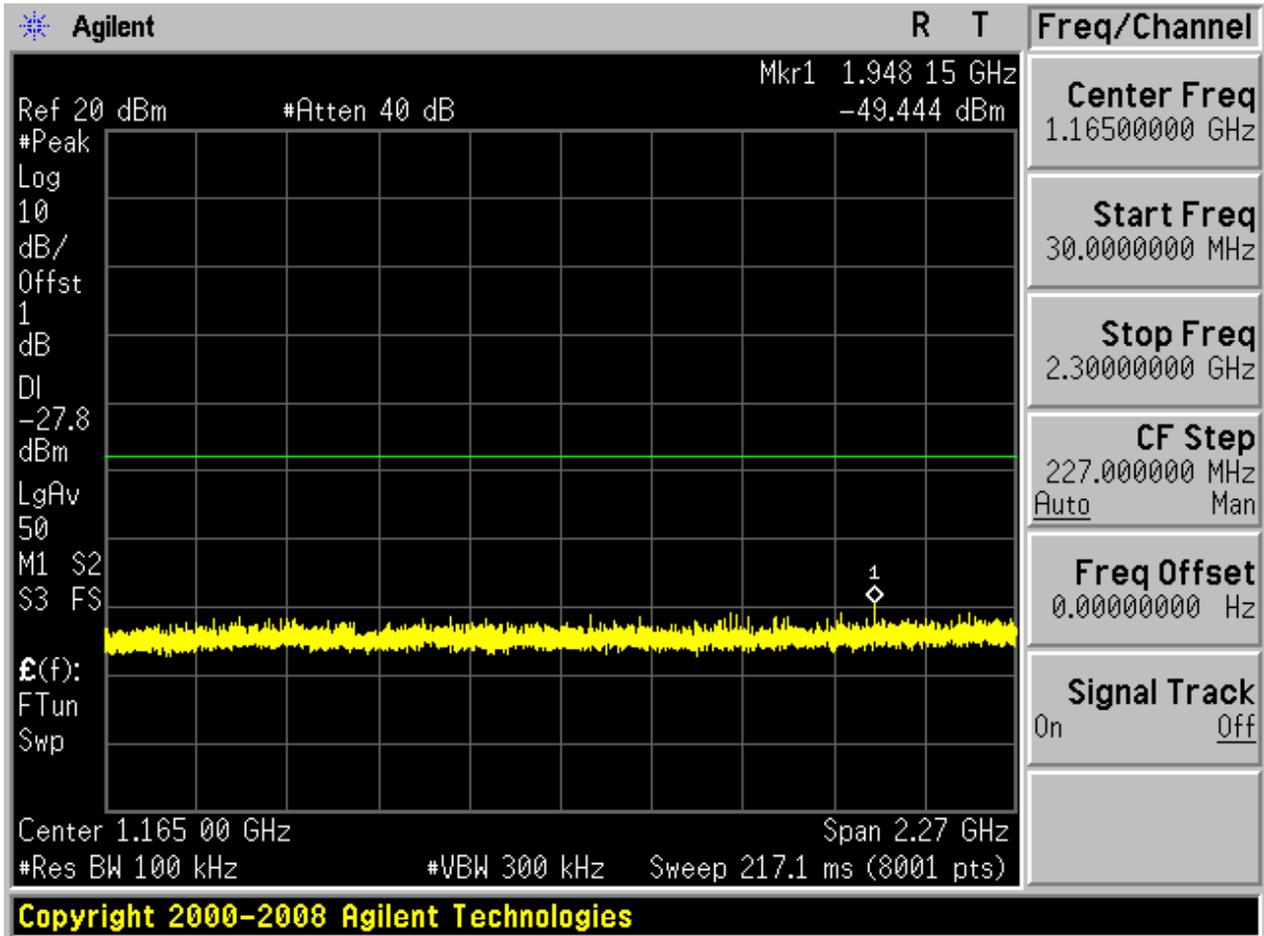


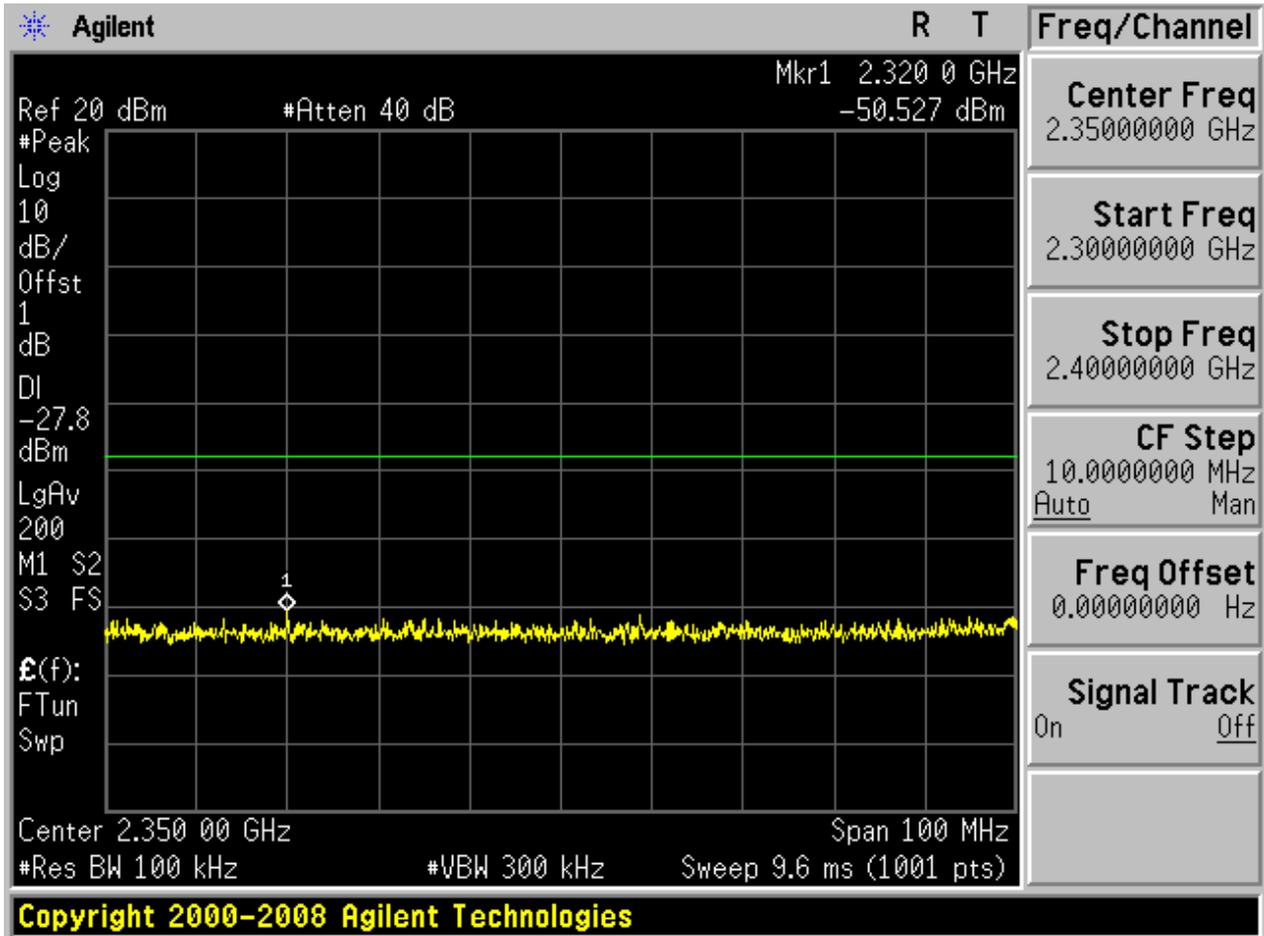


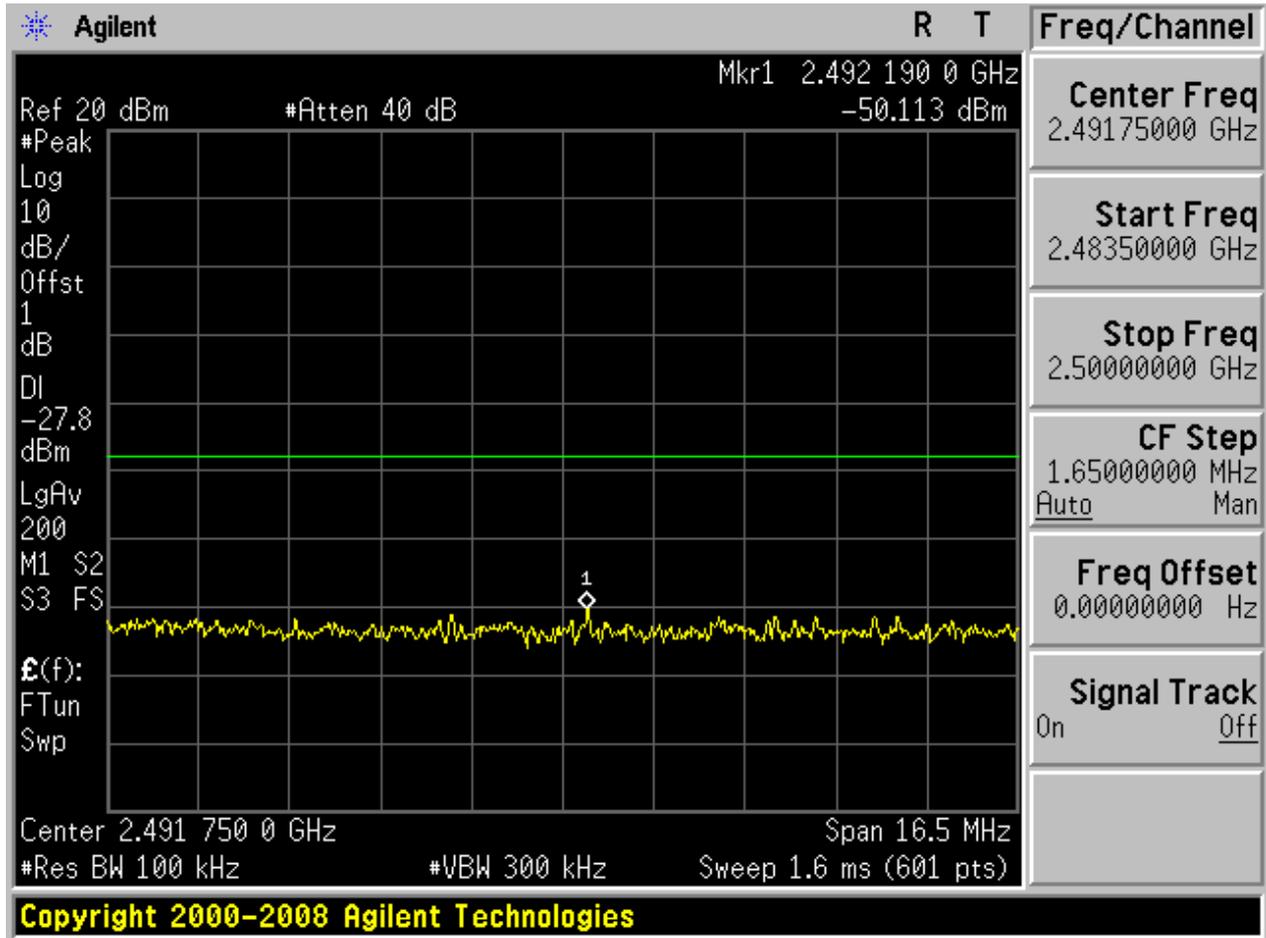
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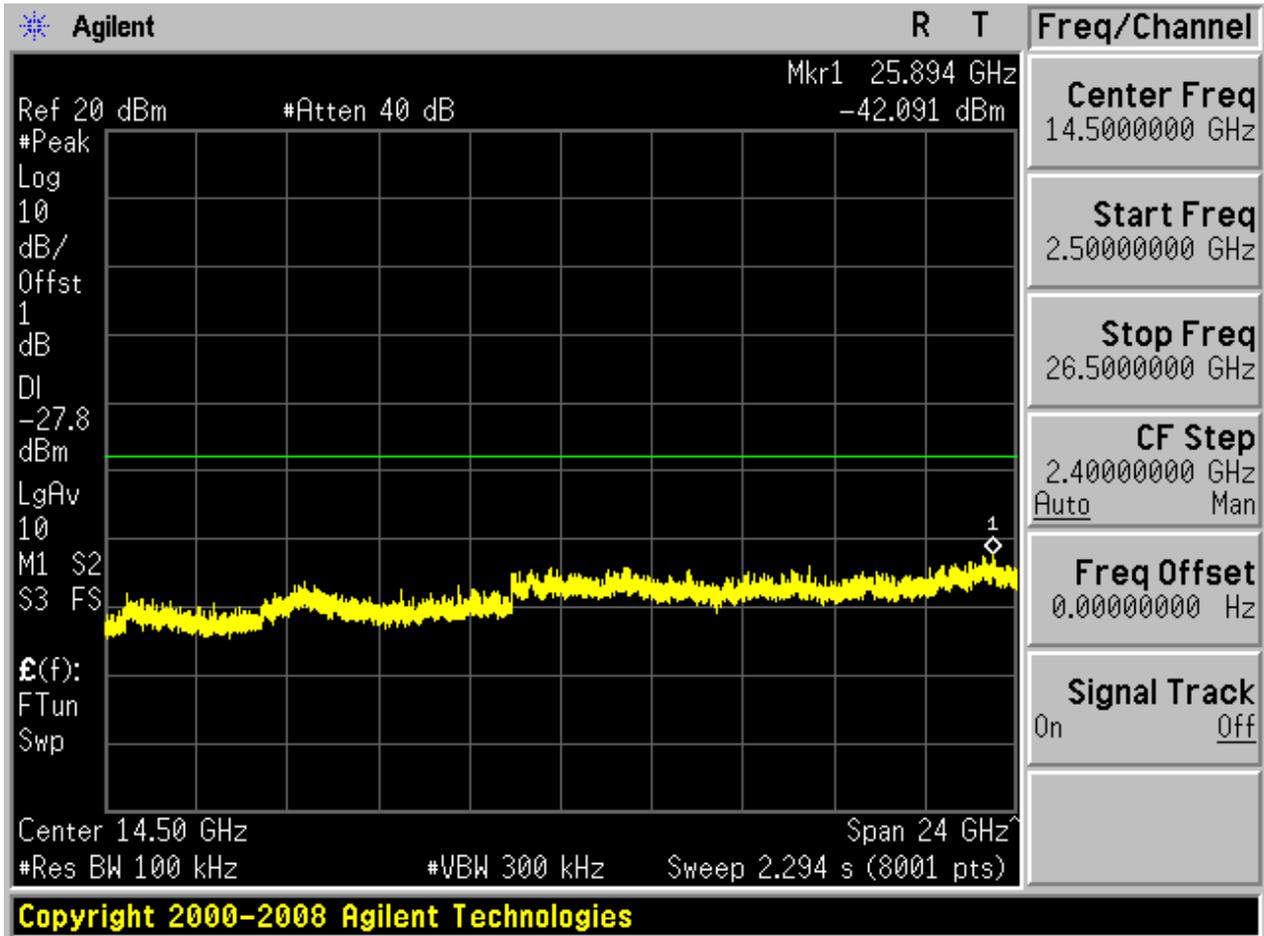








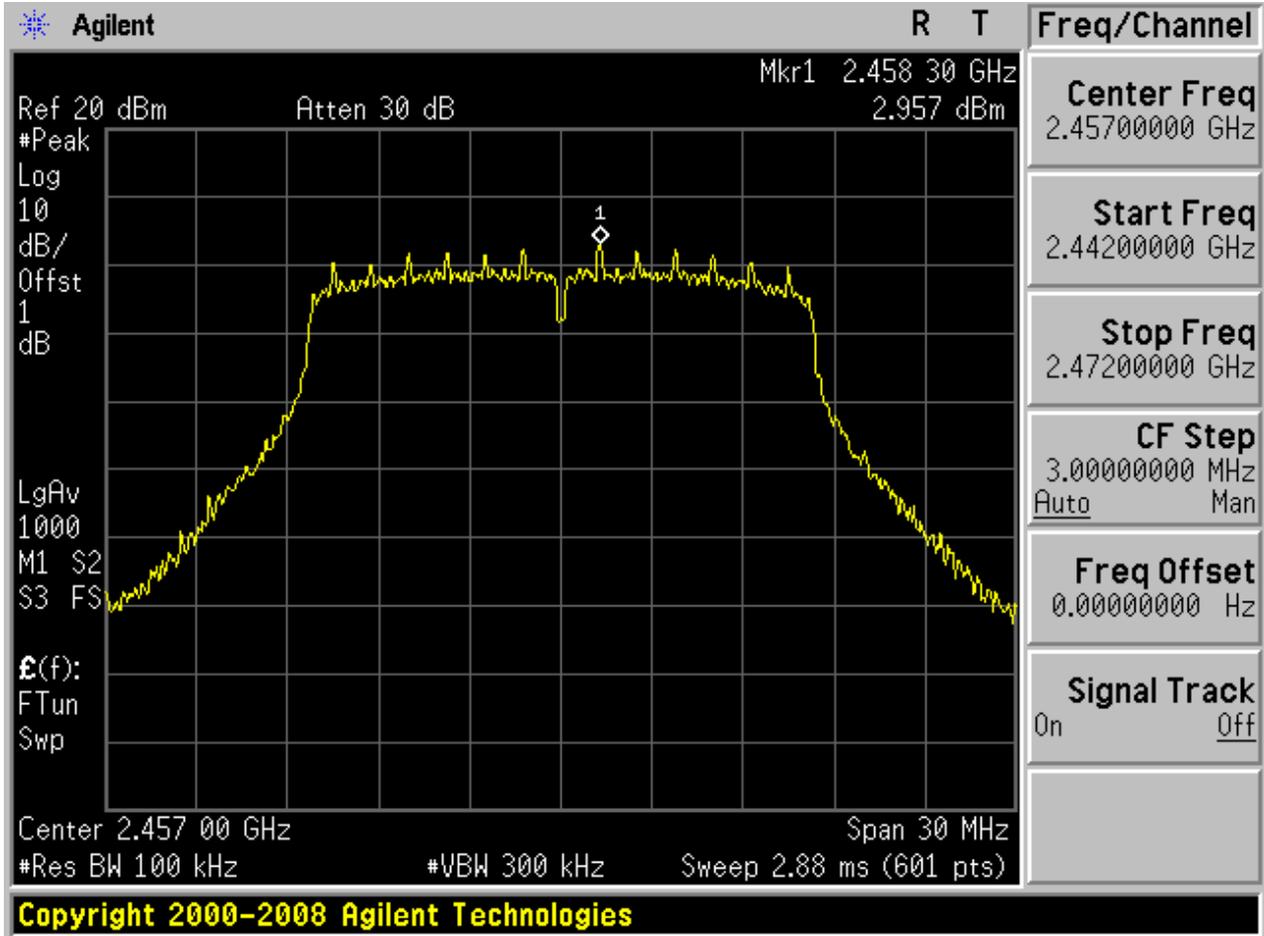






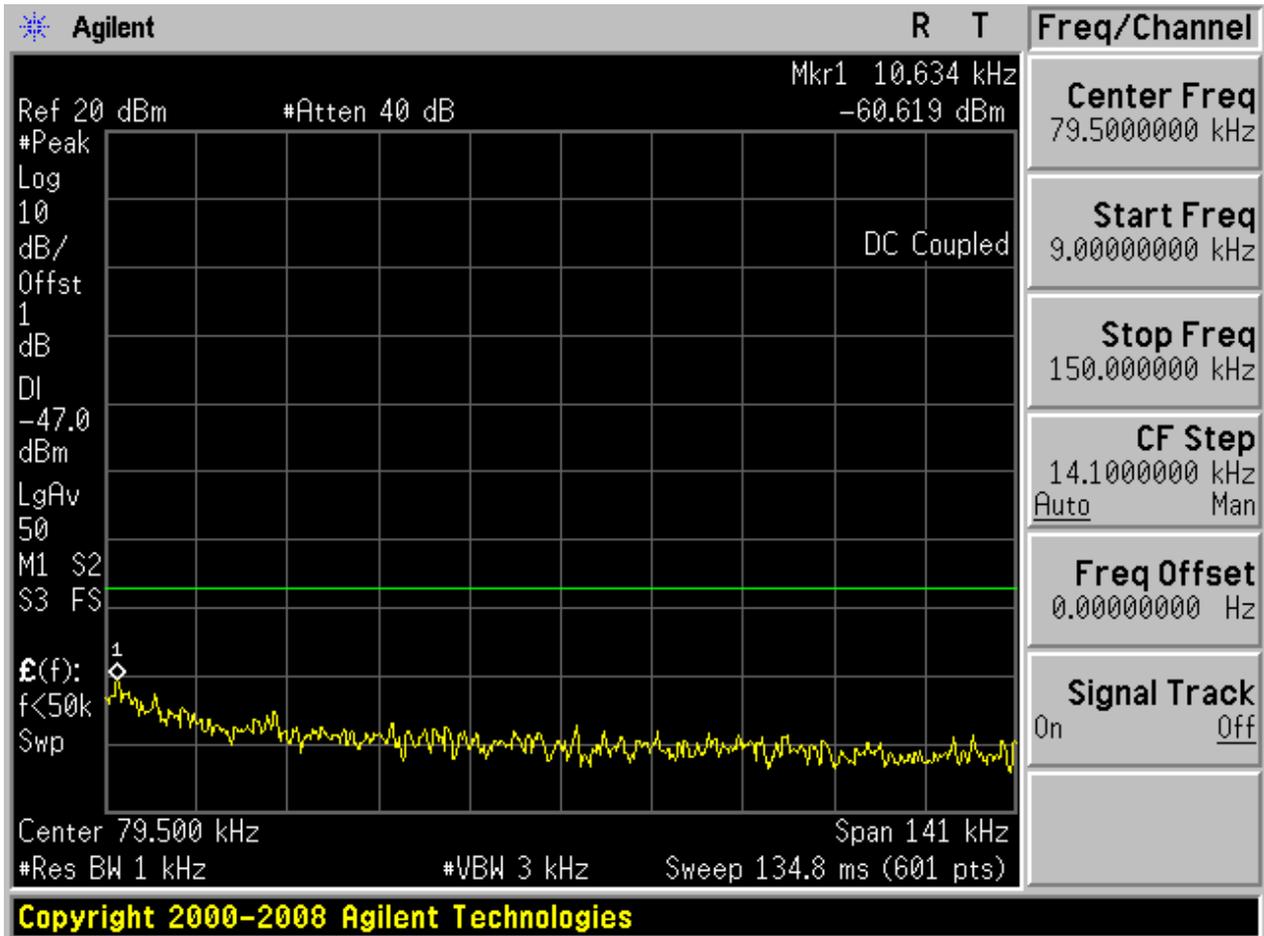
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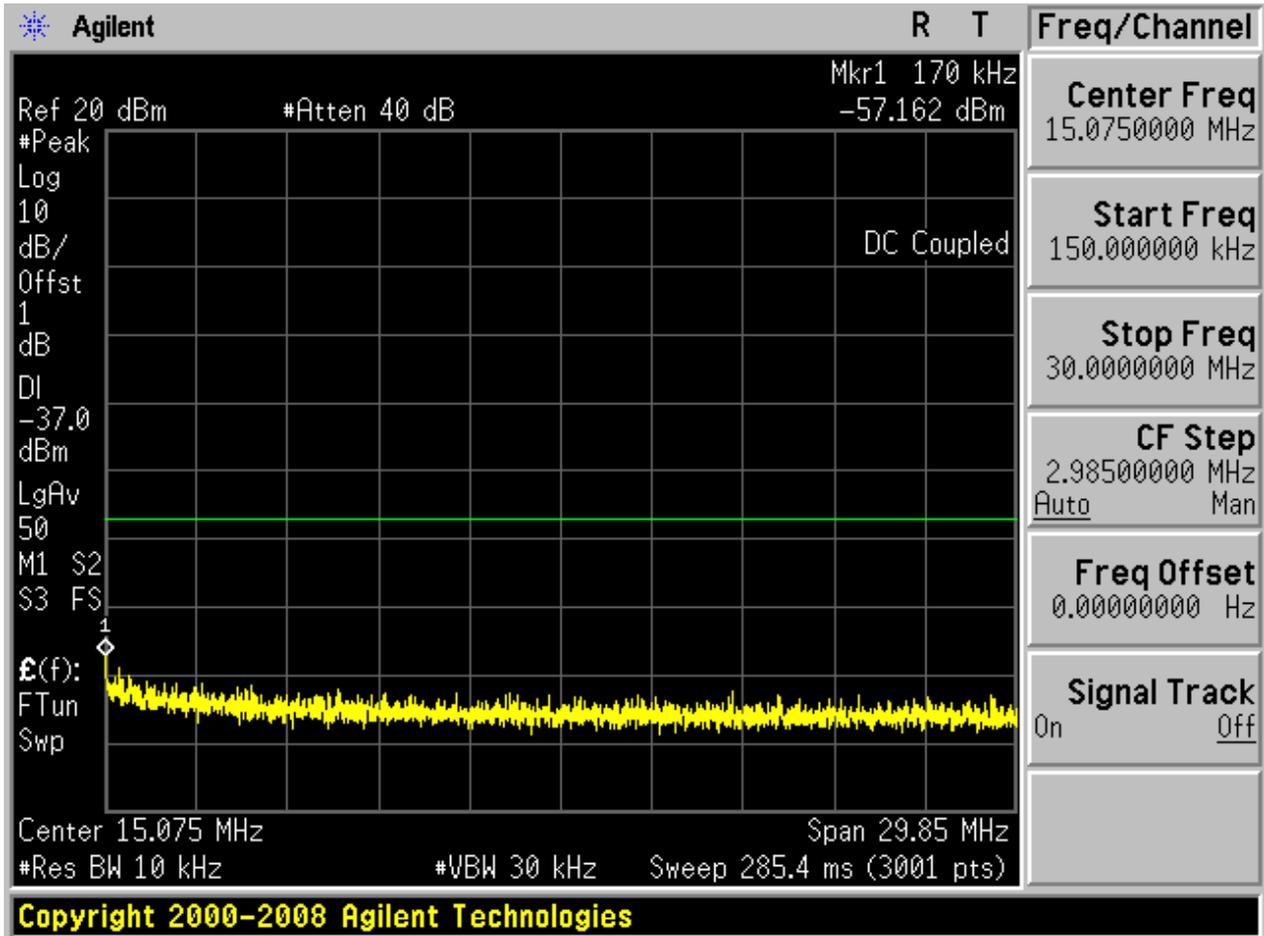
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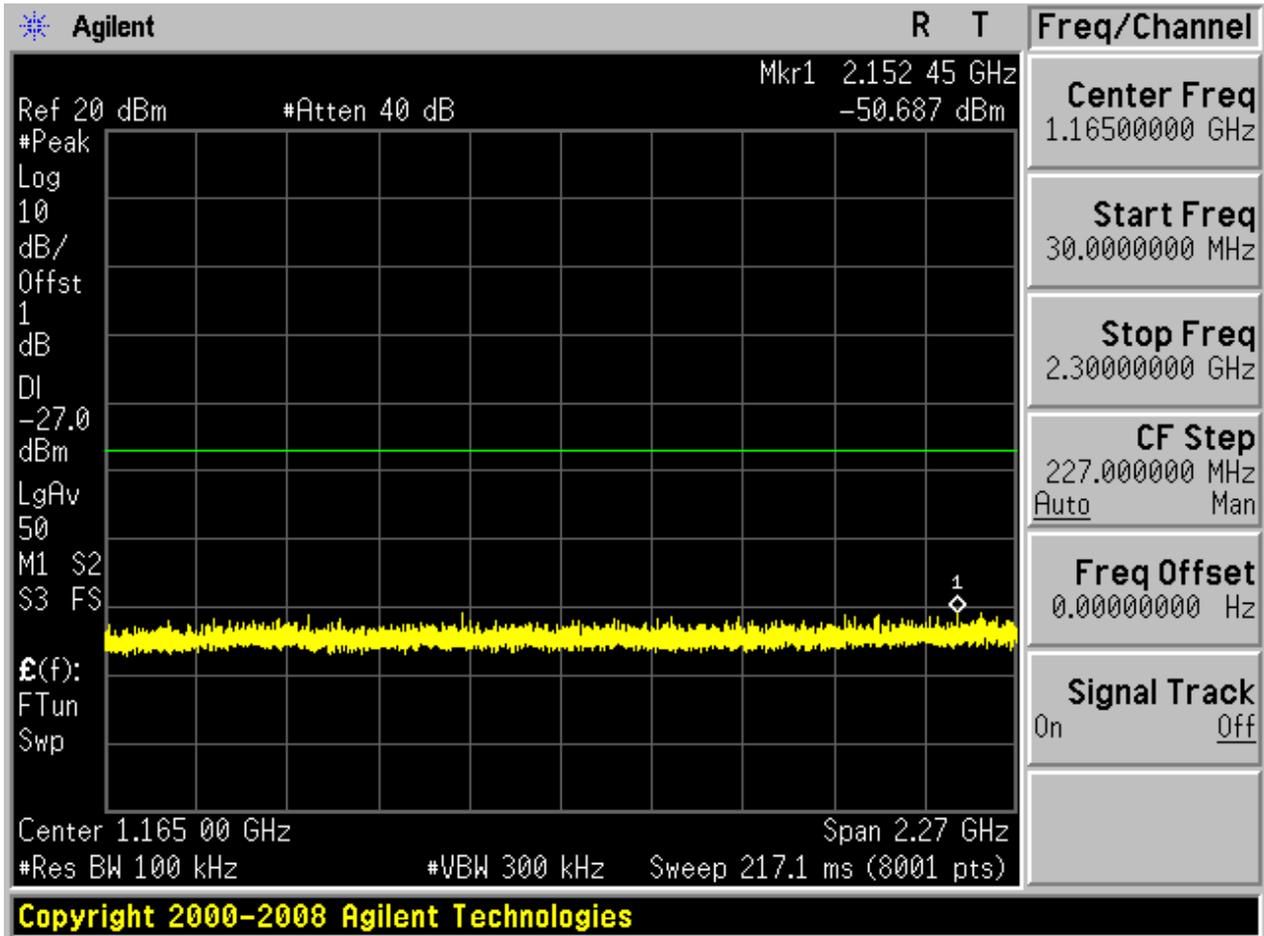


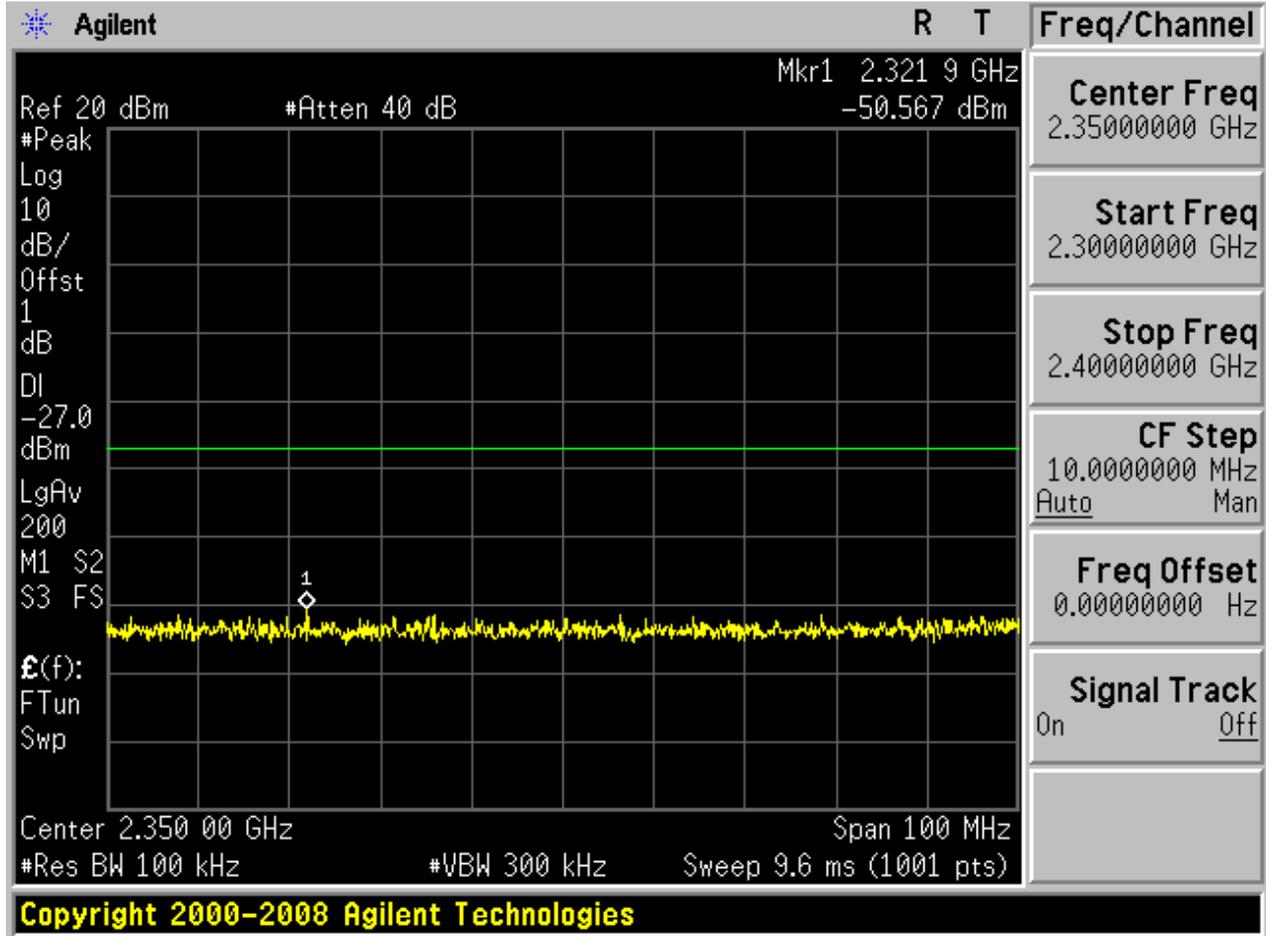


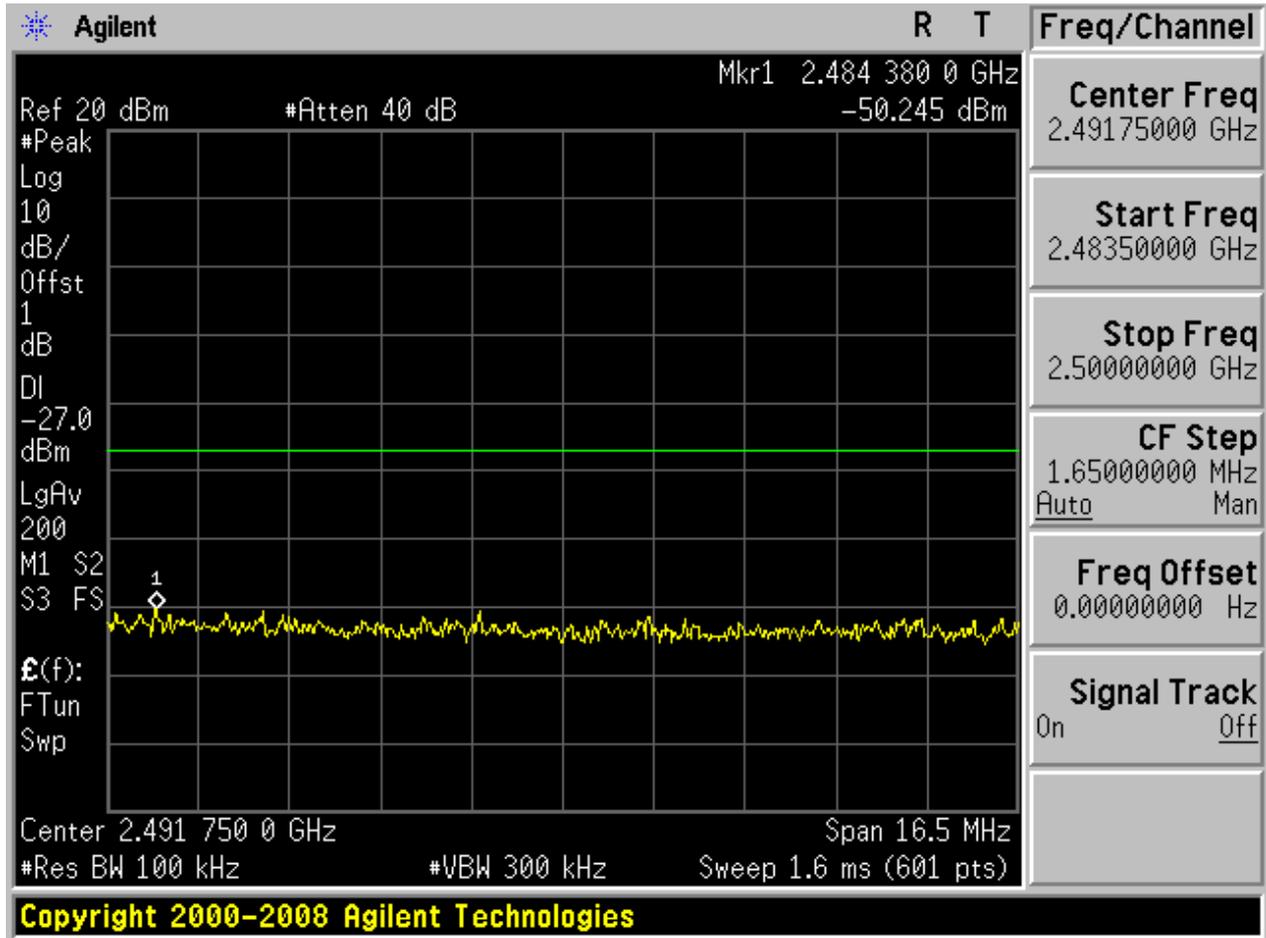
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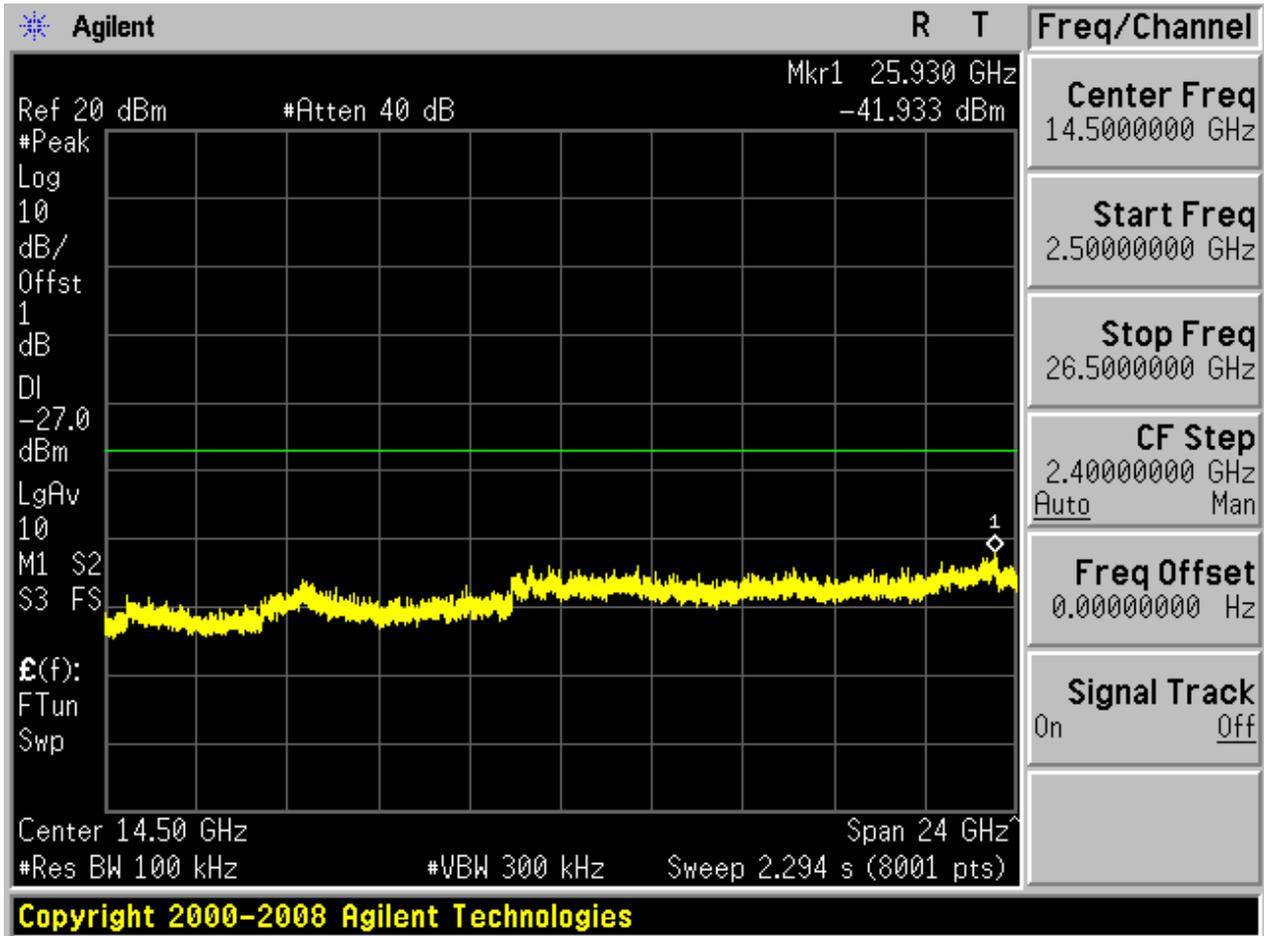








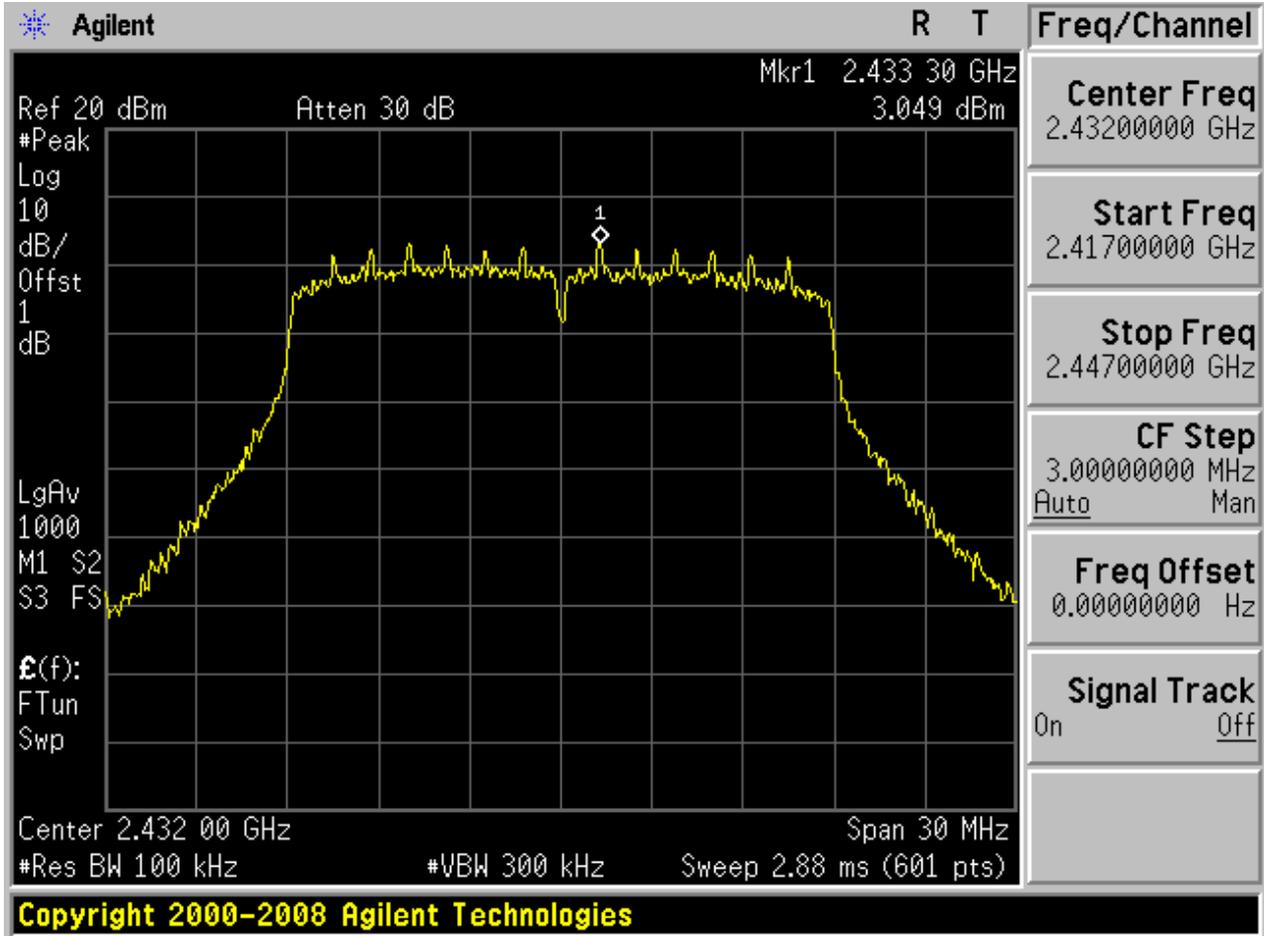






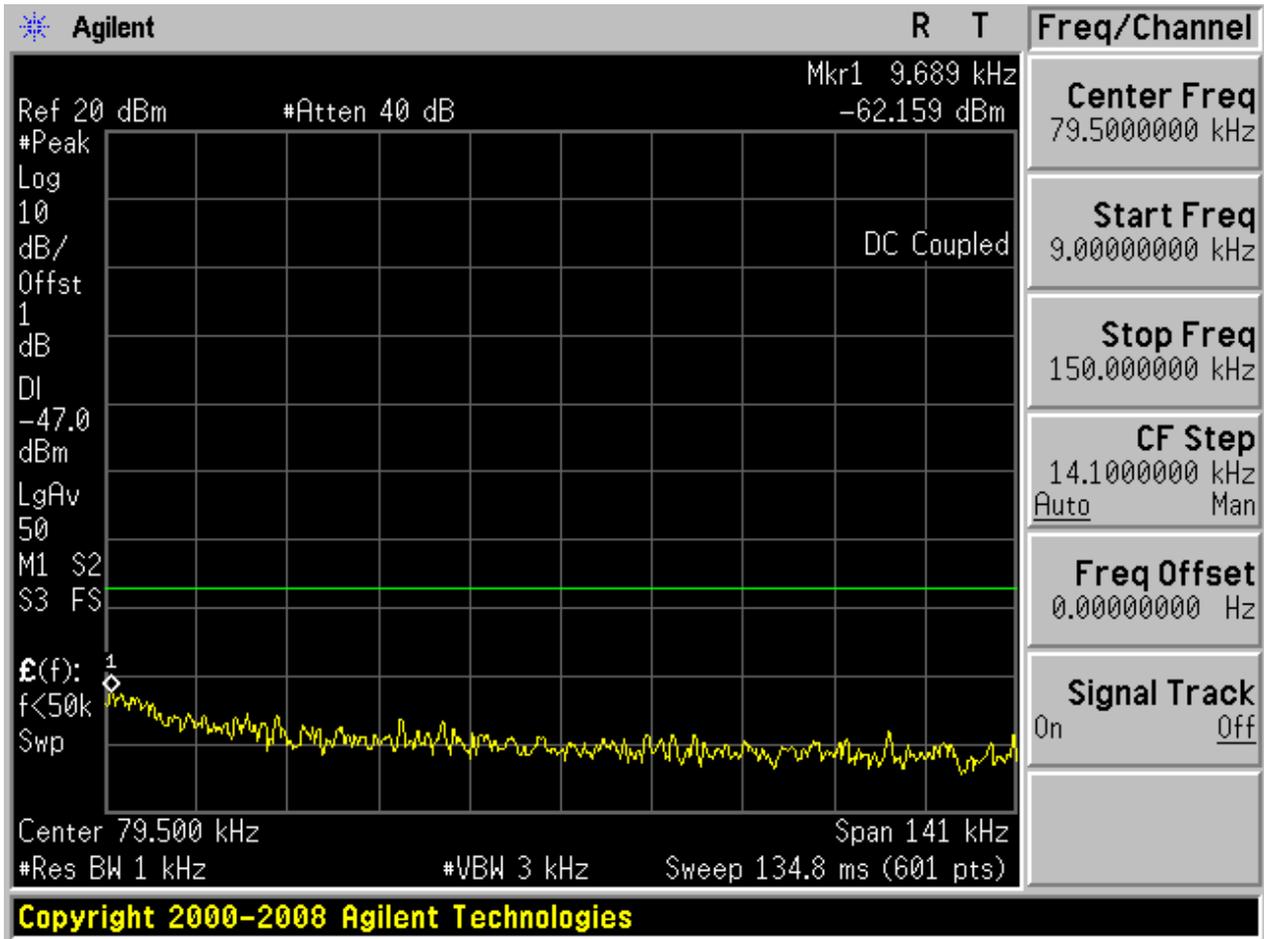
2.13 11N20\_L@Ant 1

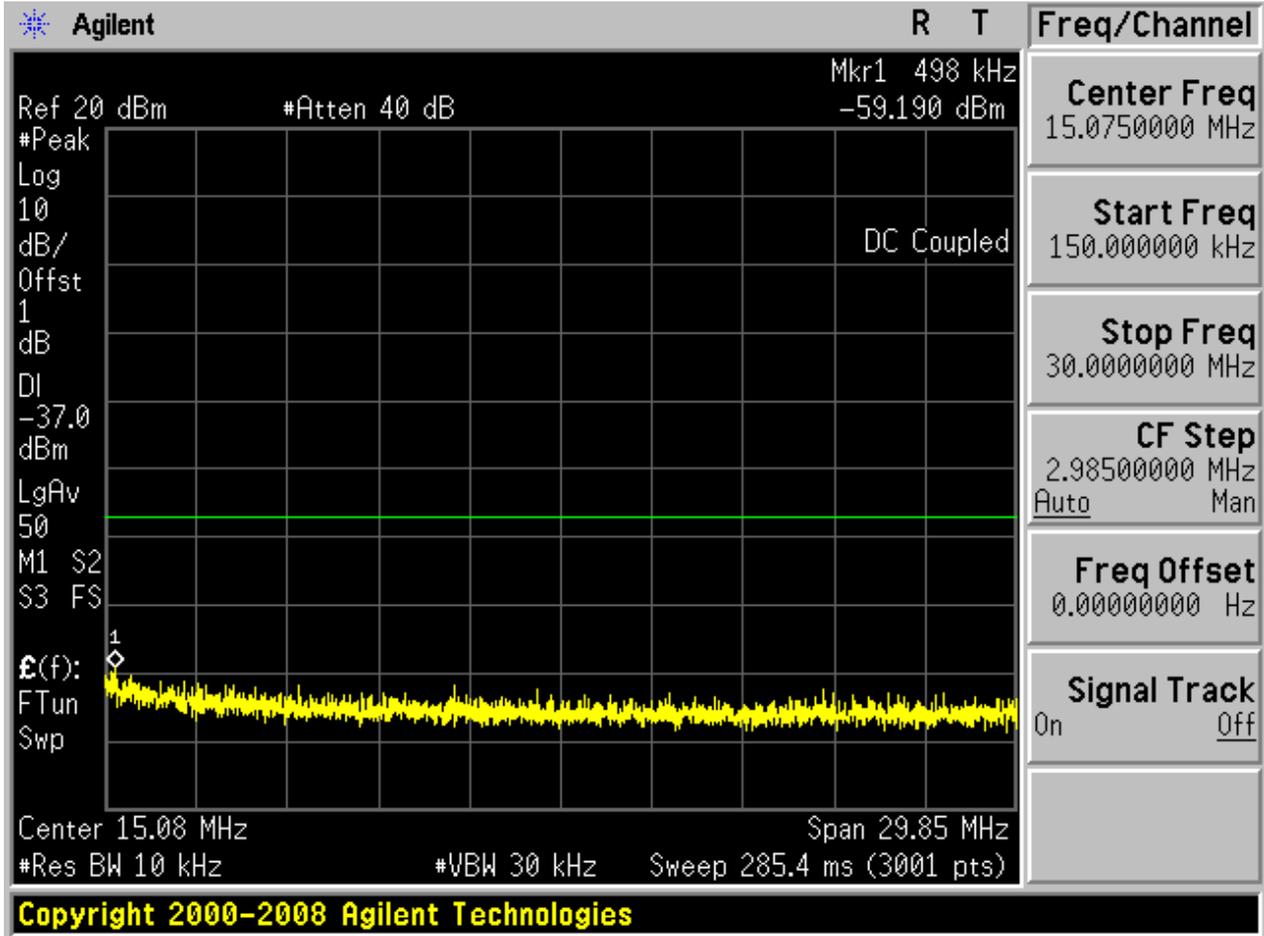
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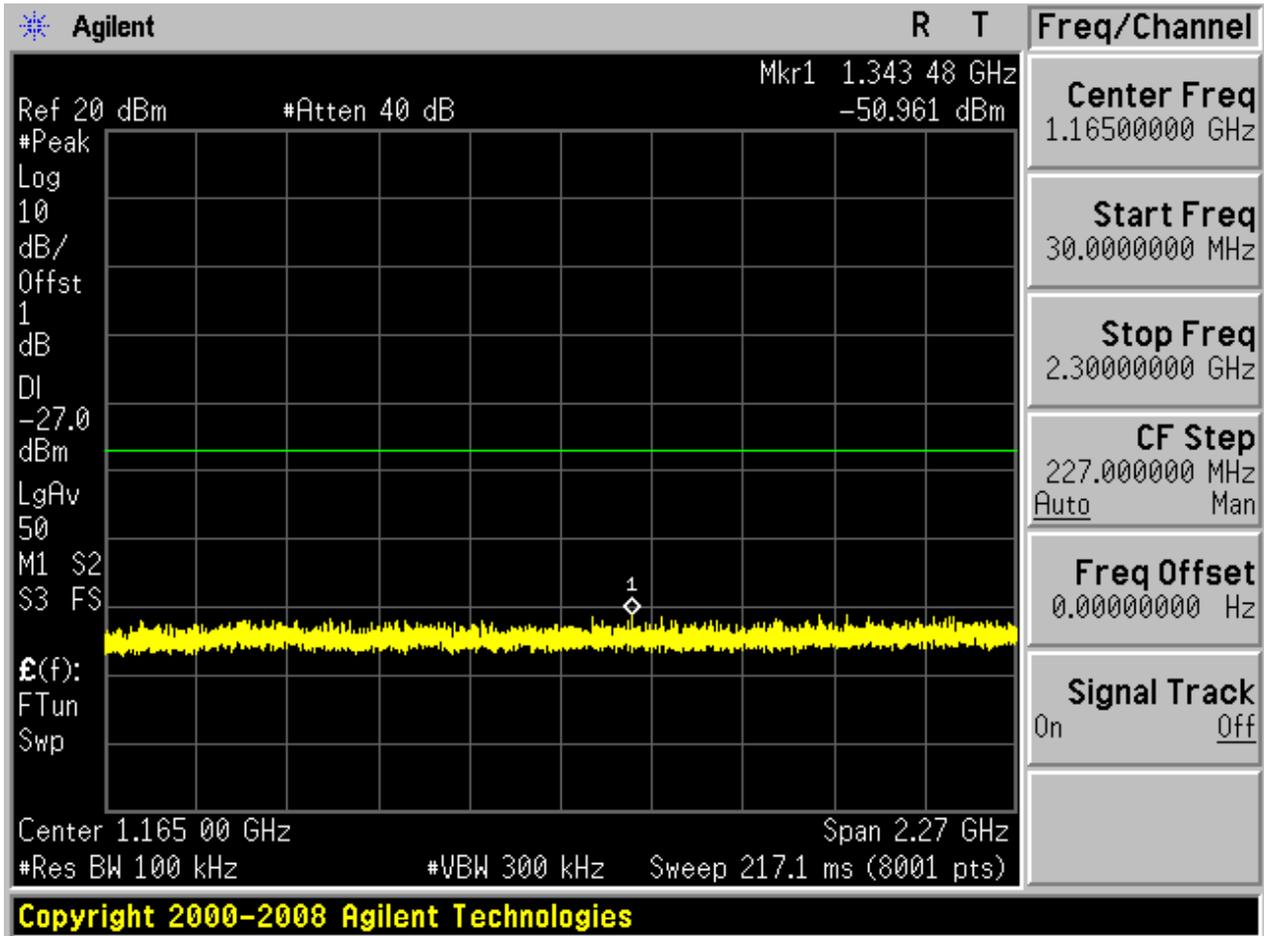


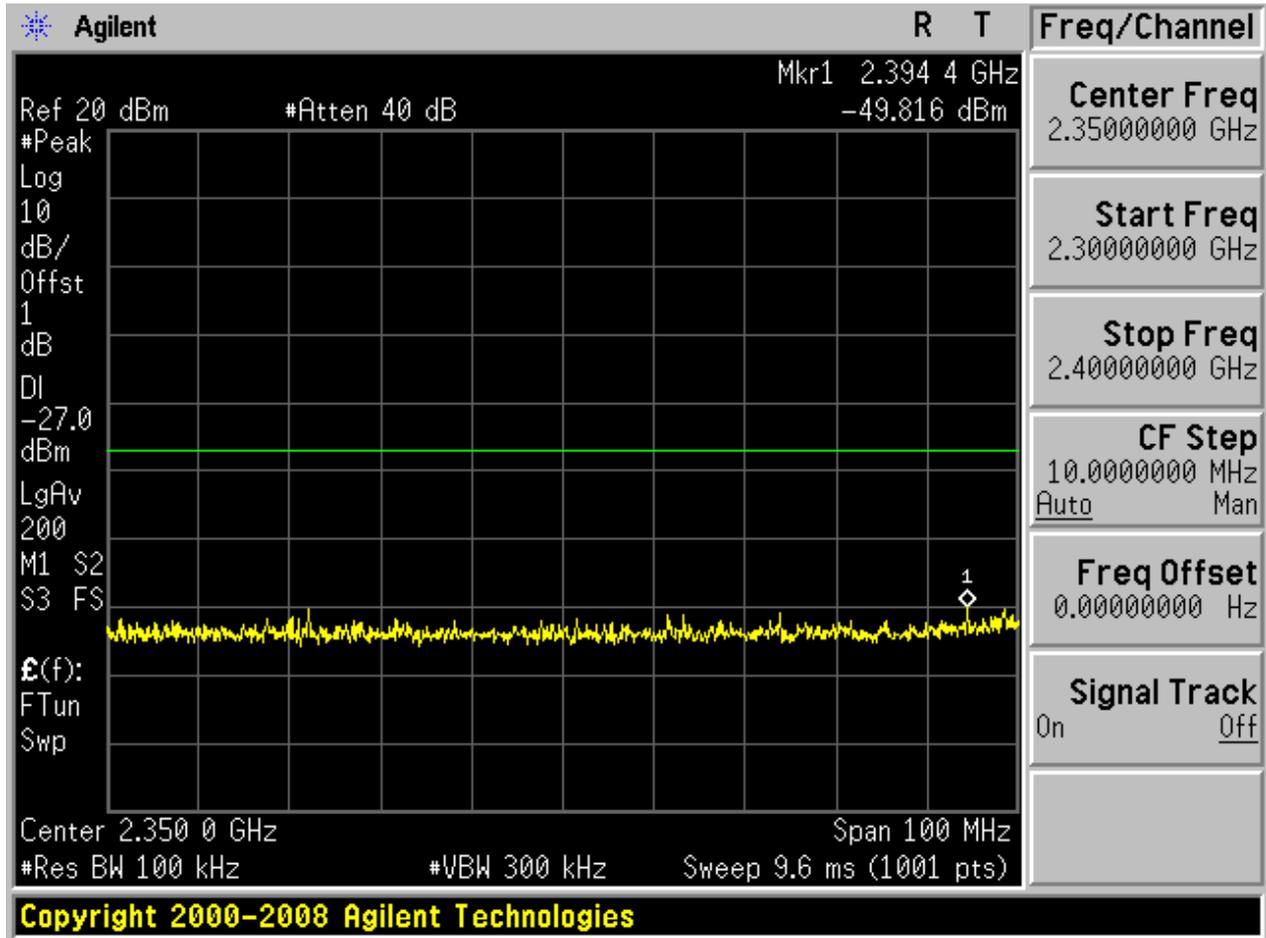


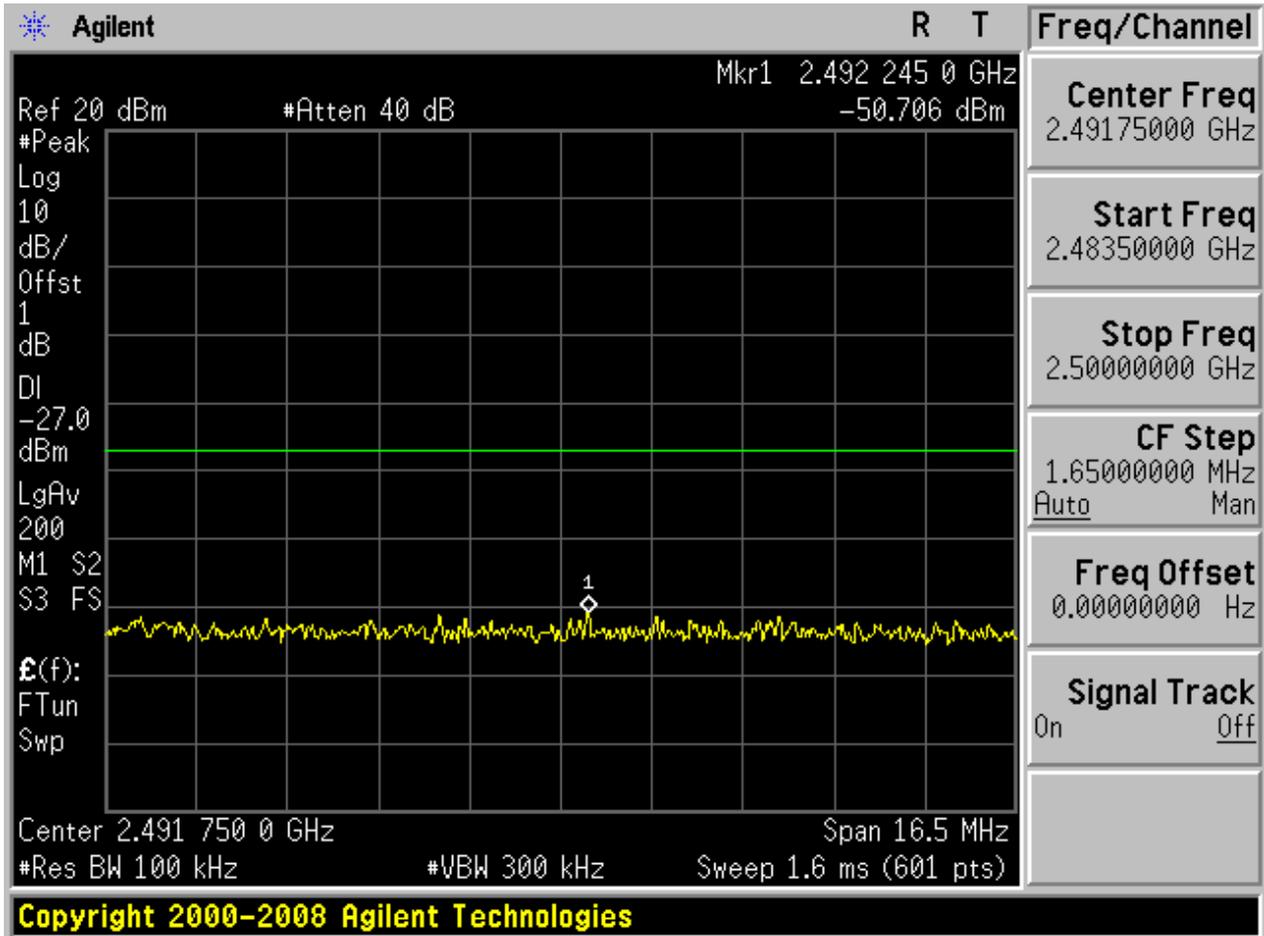
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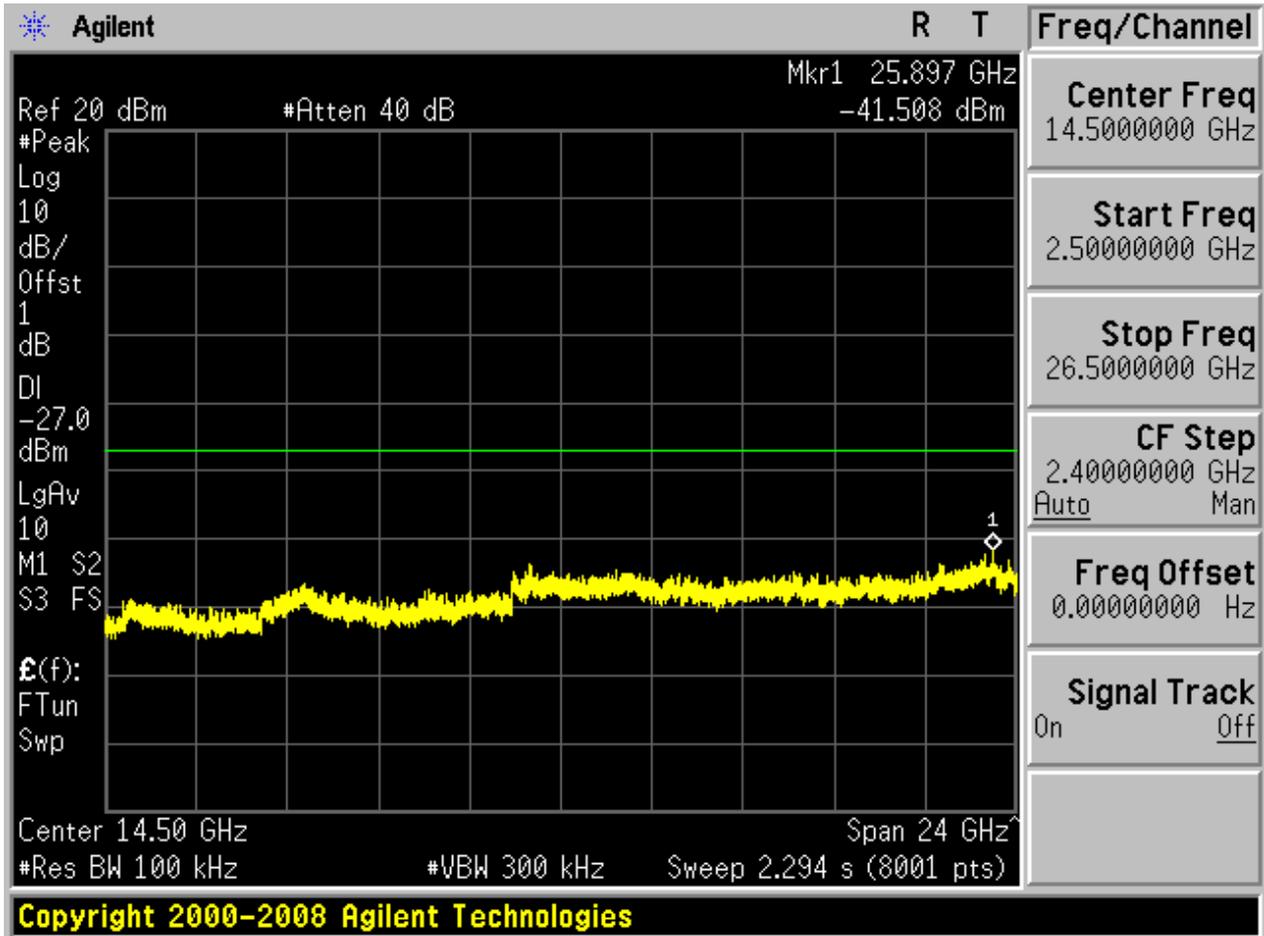






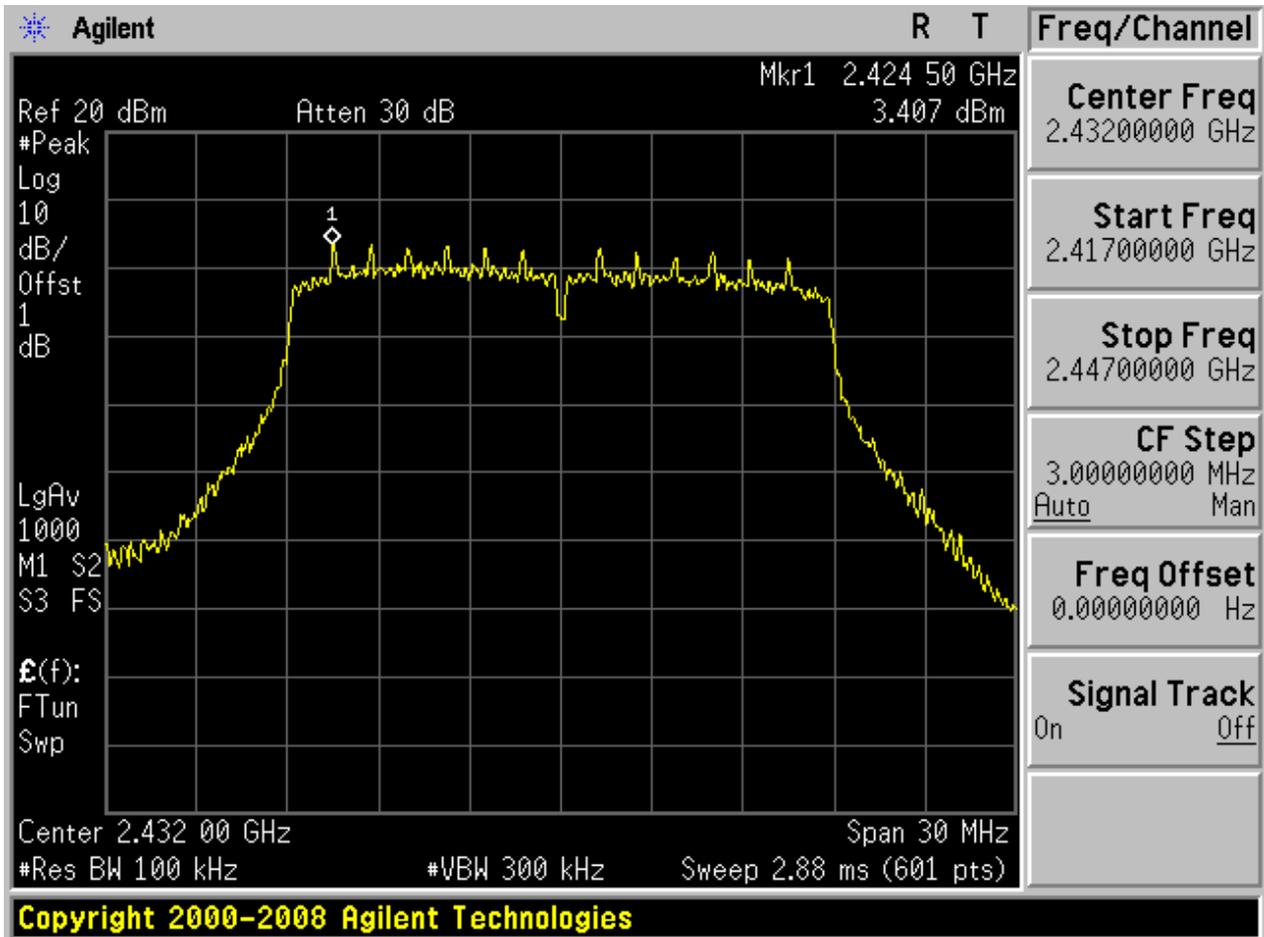






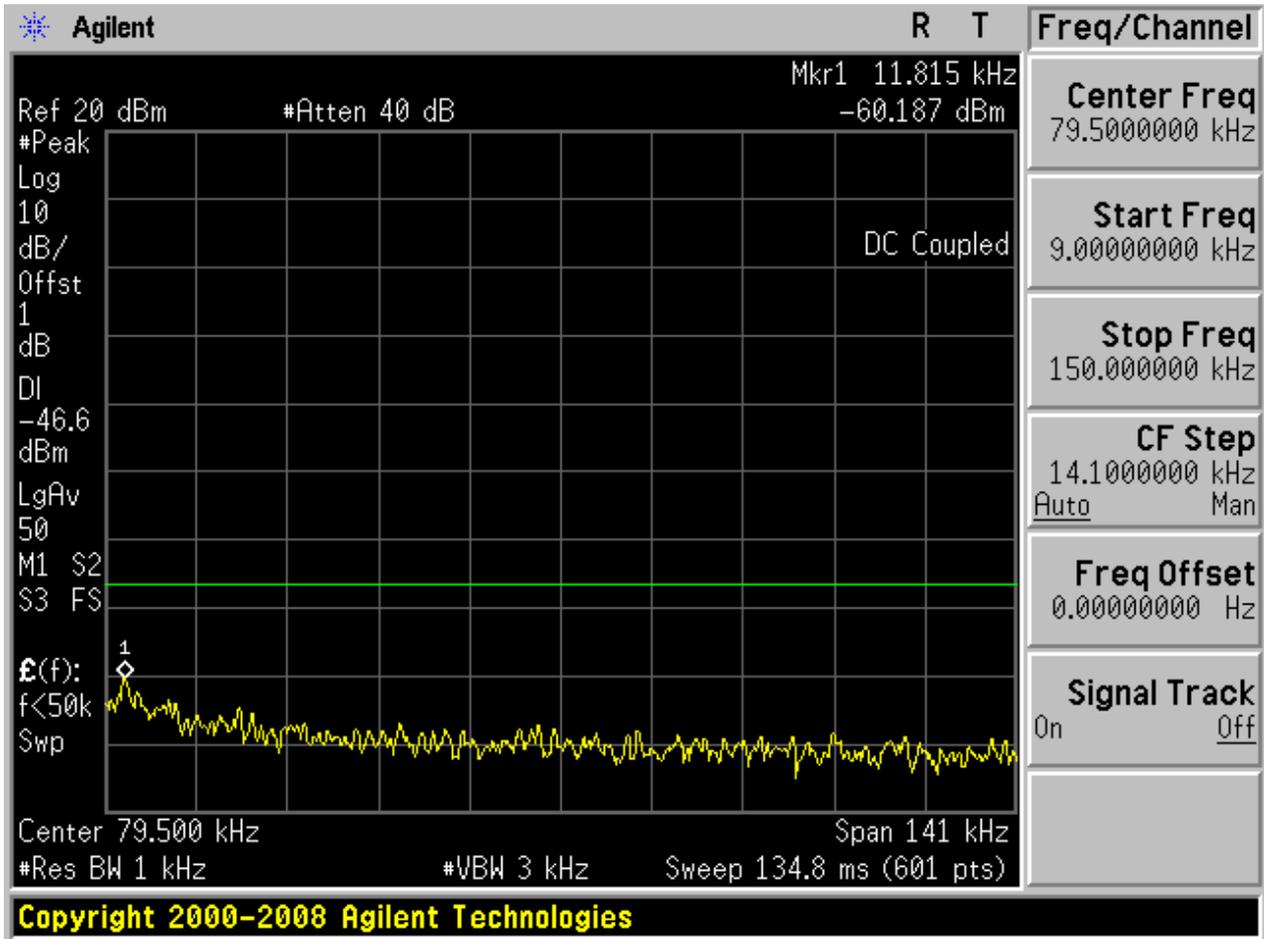
2.14 11N20\_L@Ant 2

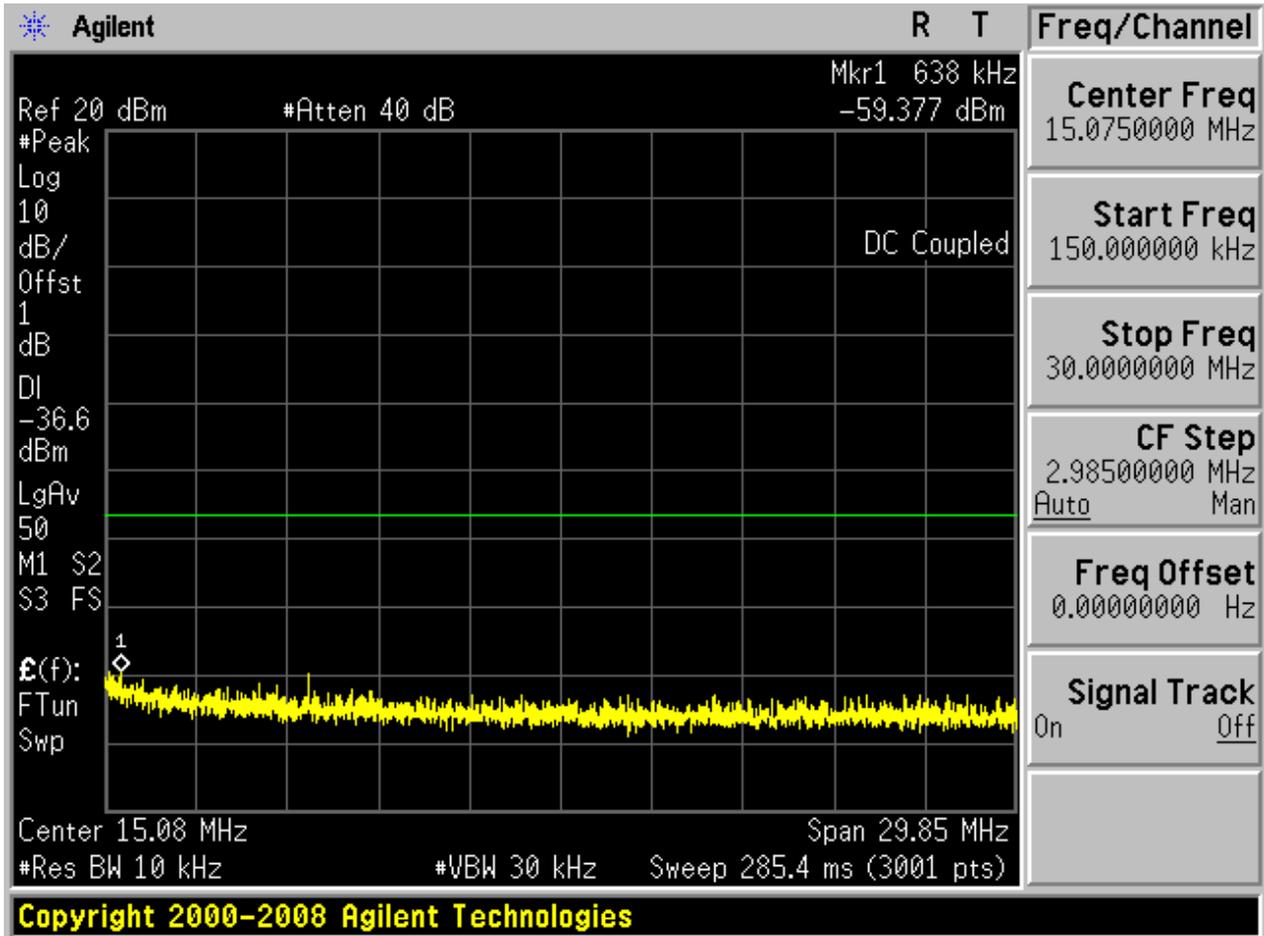
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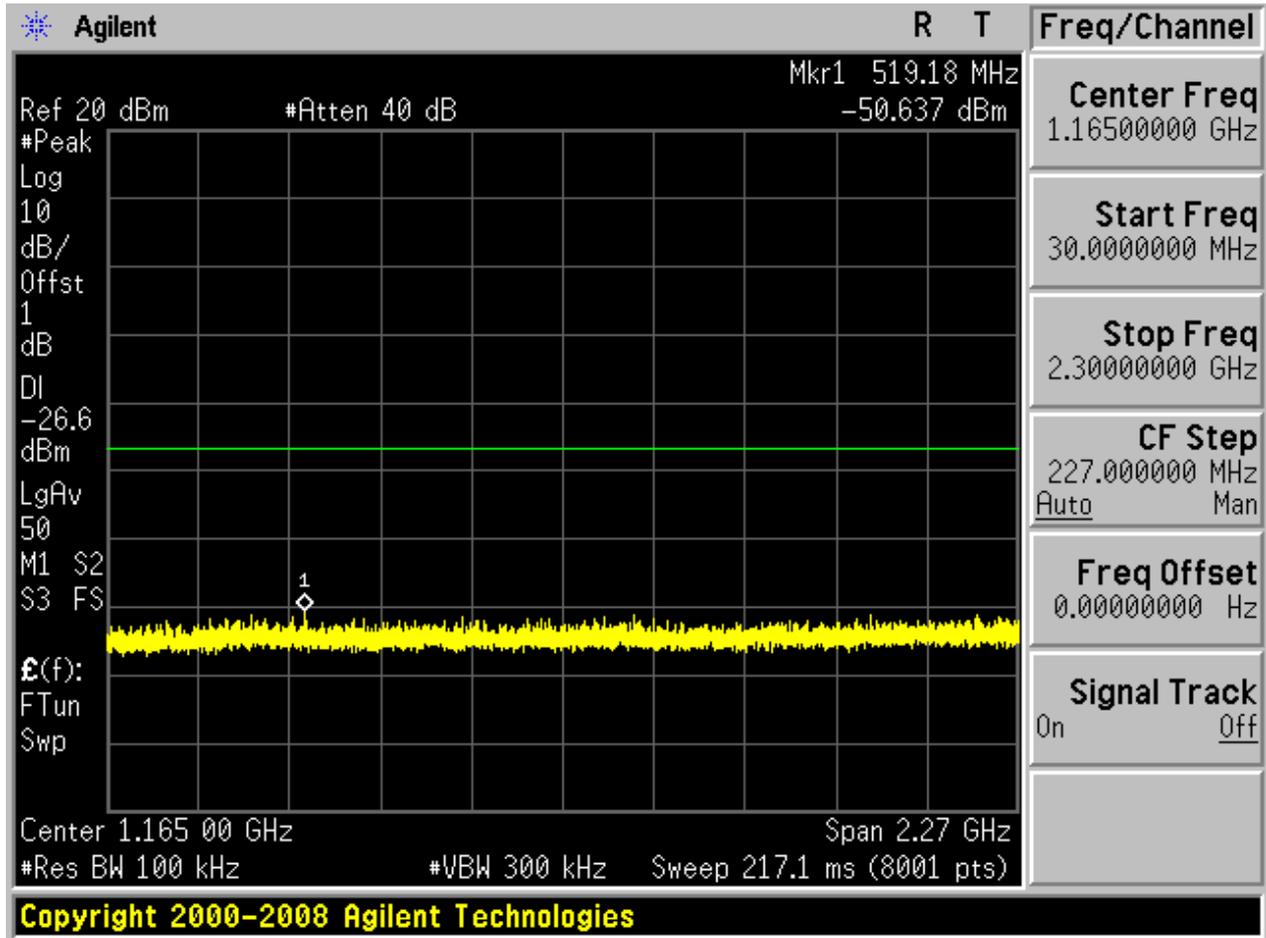


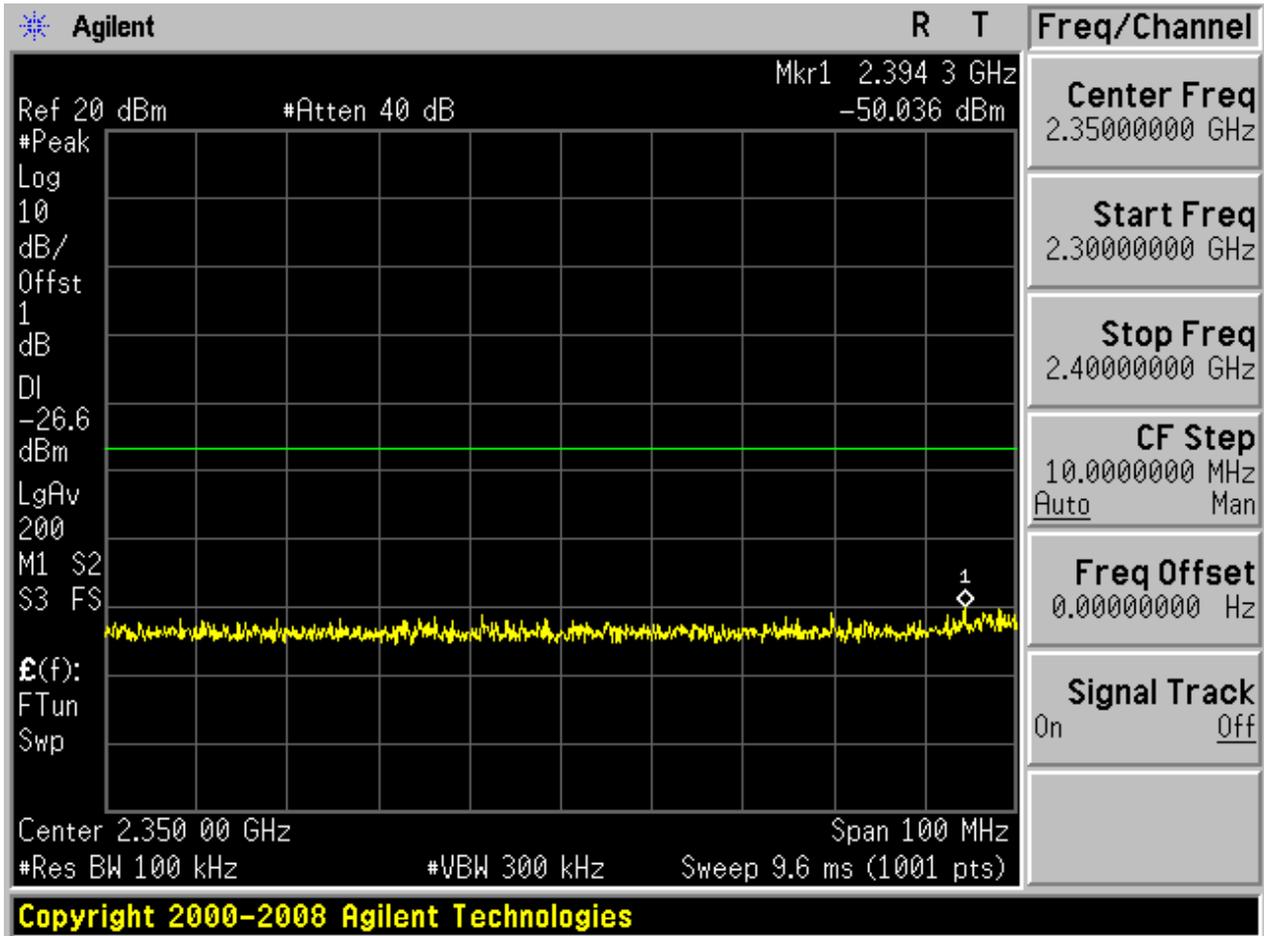


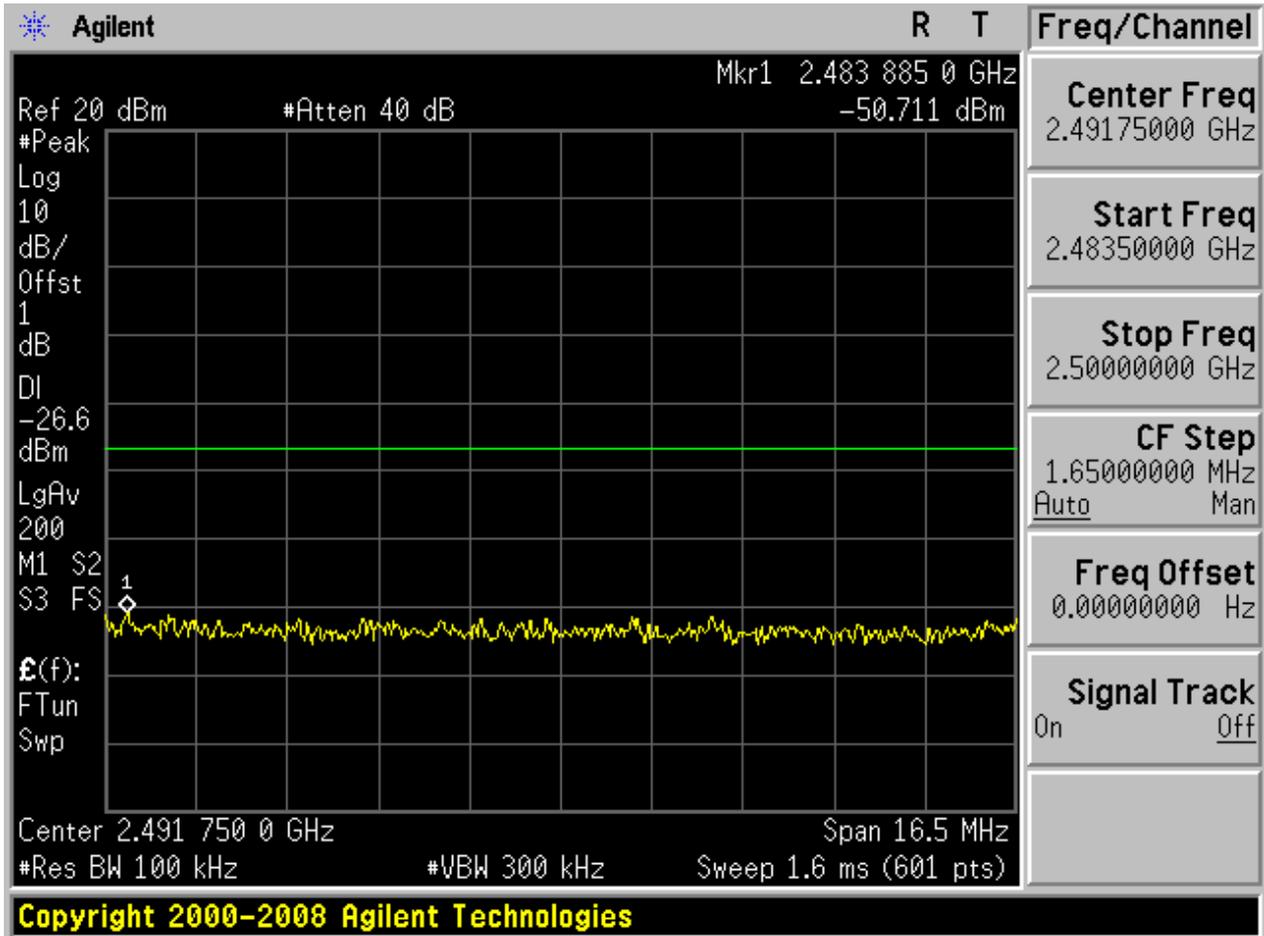
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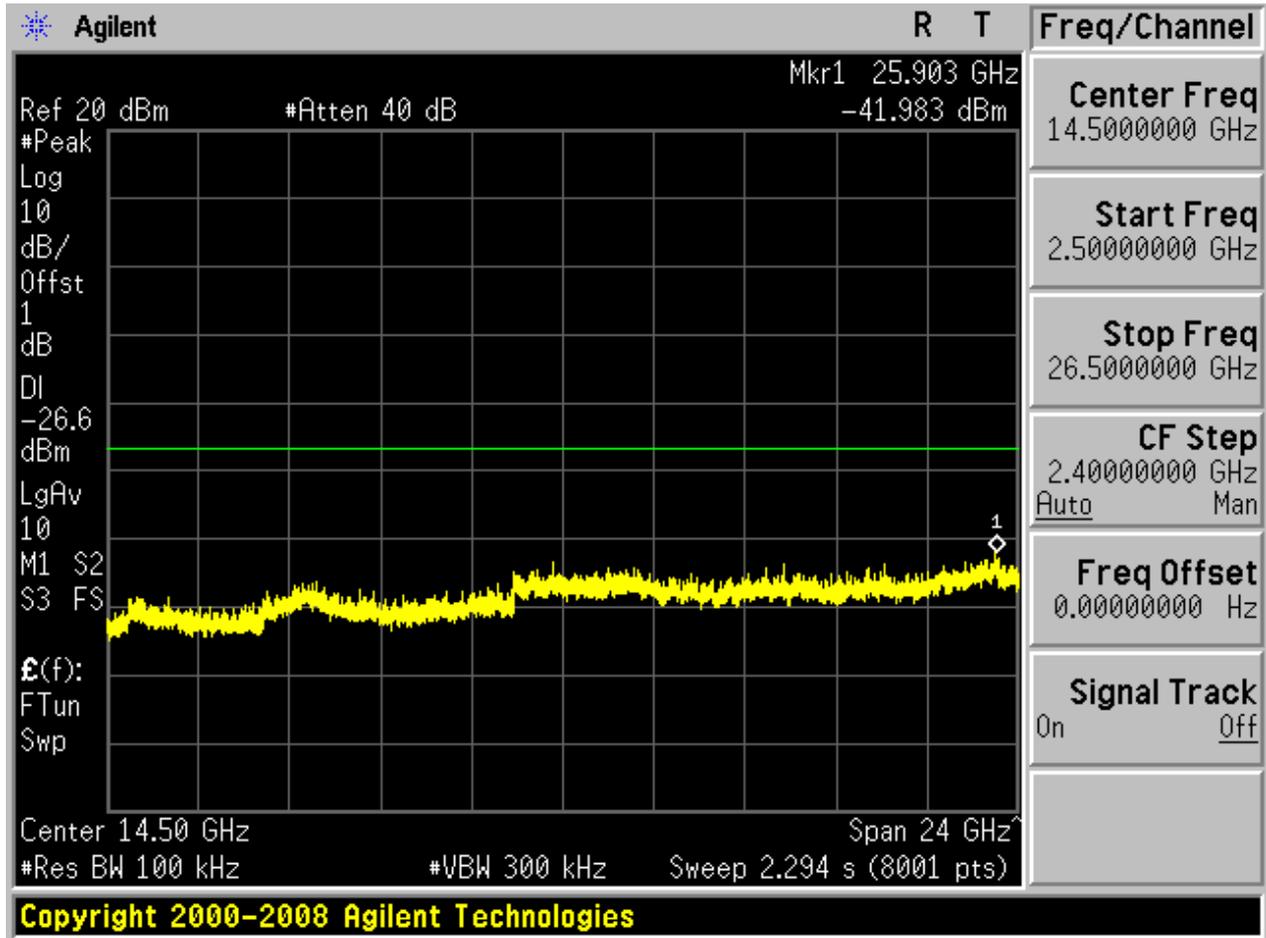








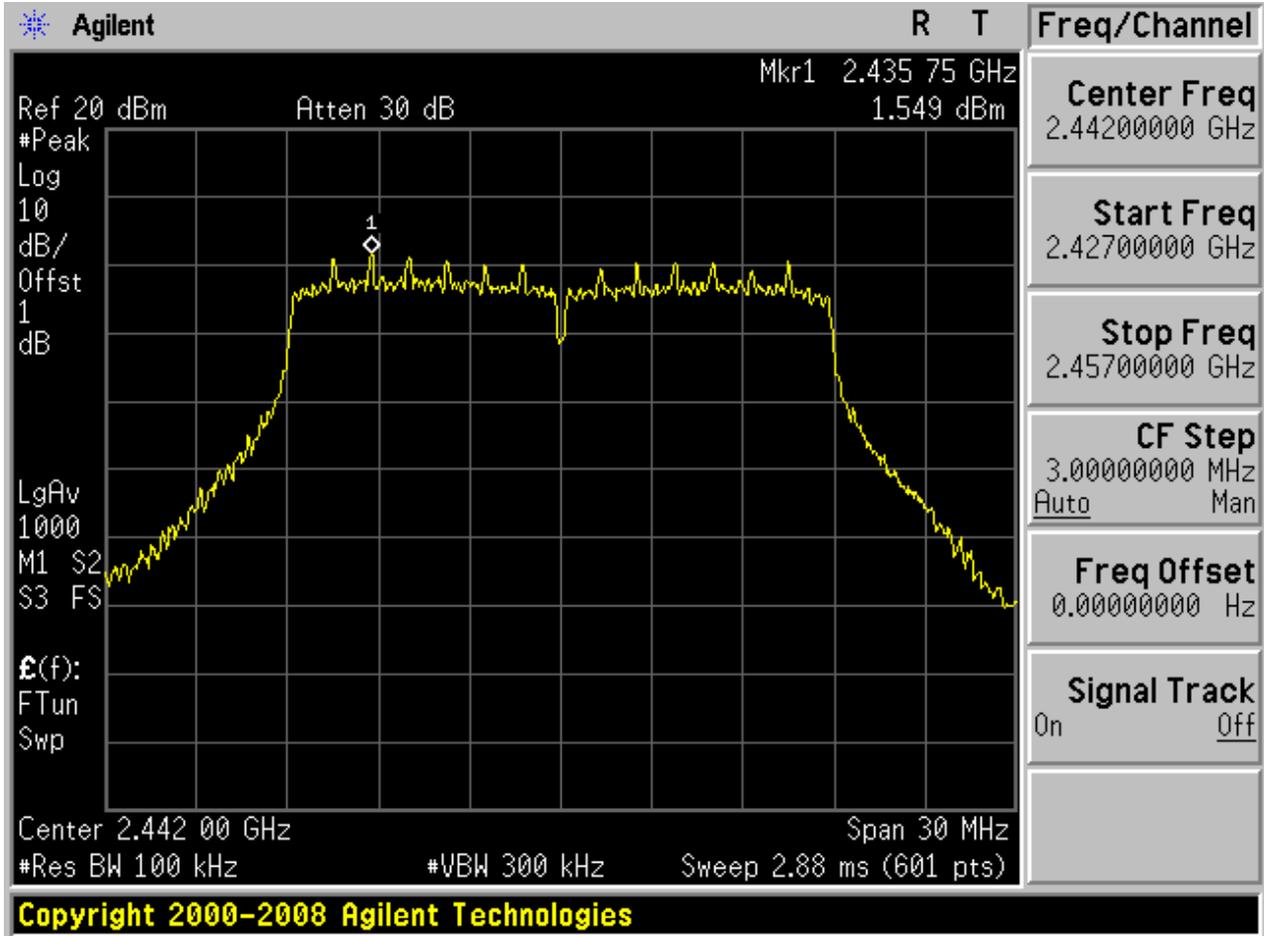






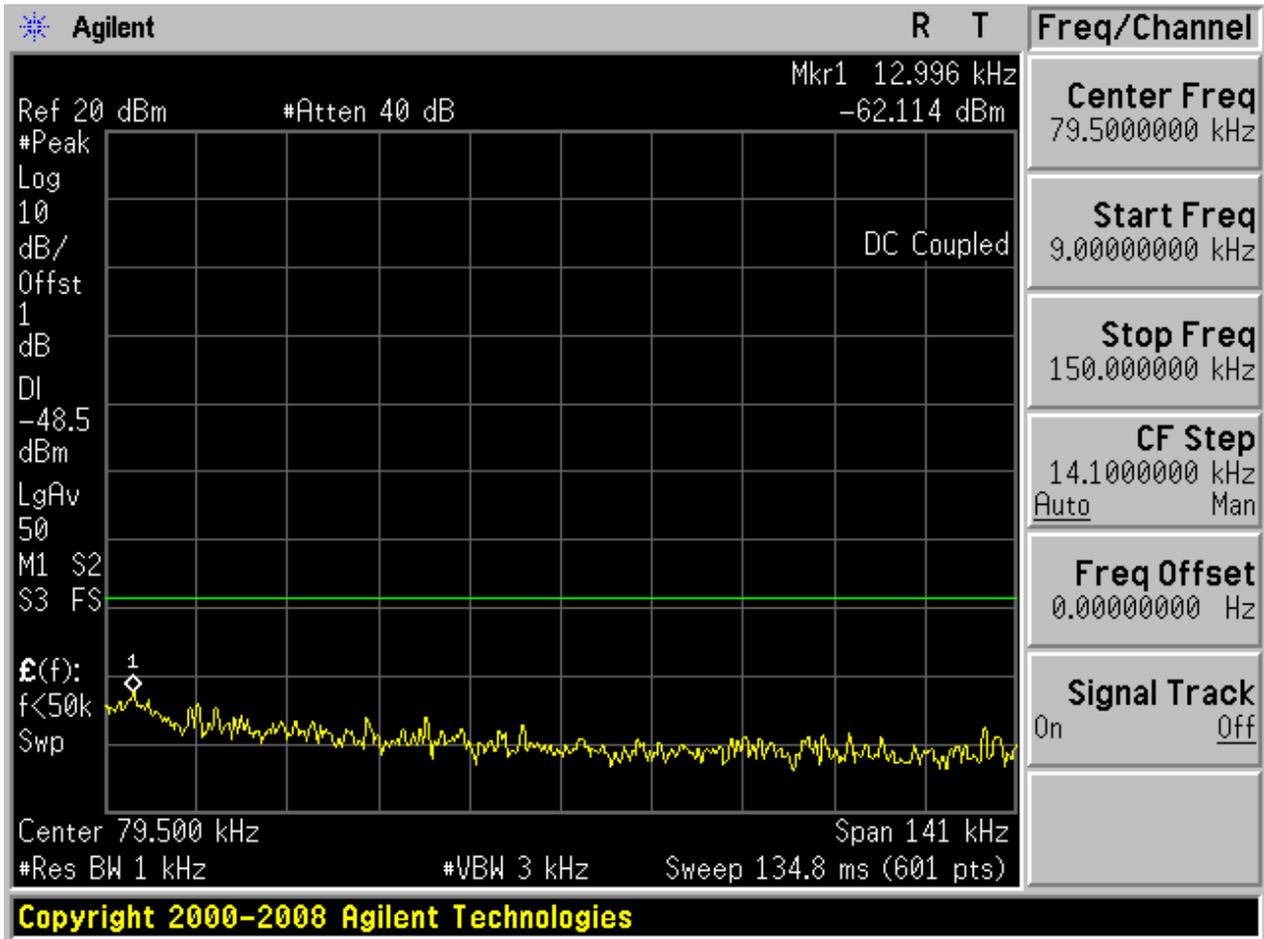
2.15 11N20\_M@Ant 1

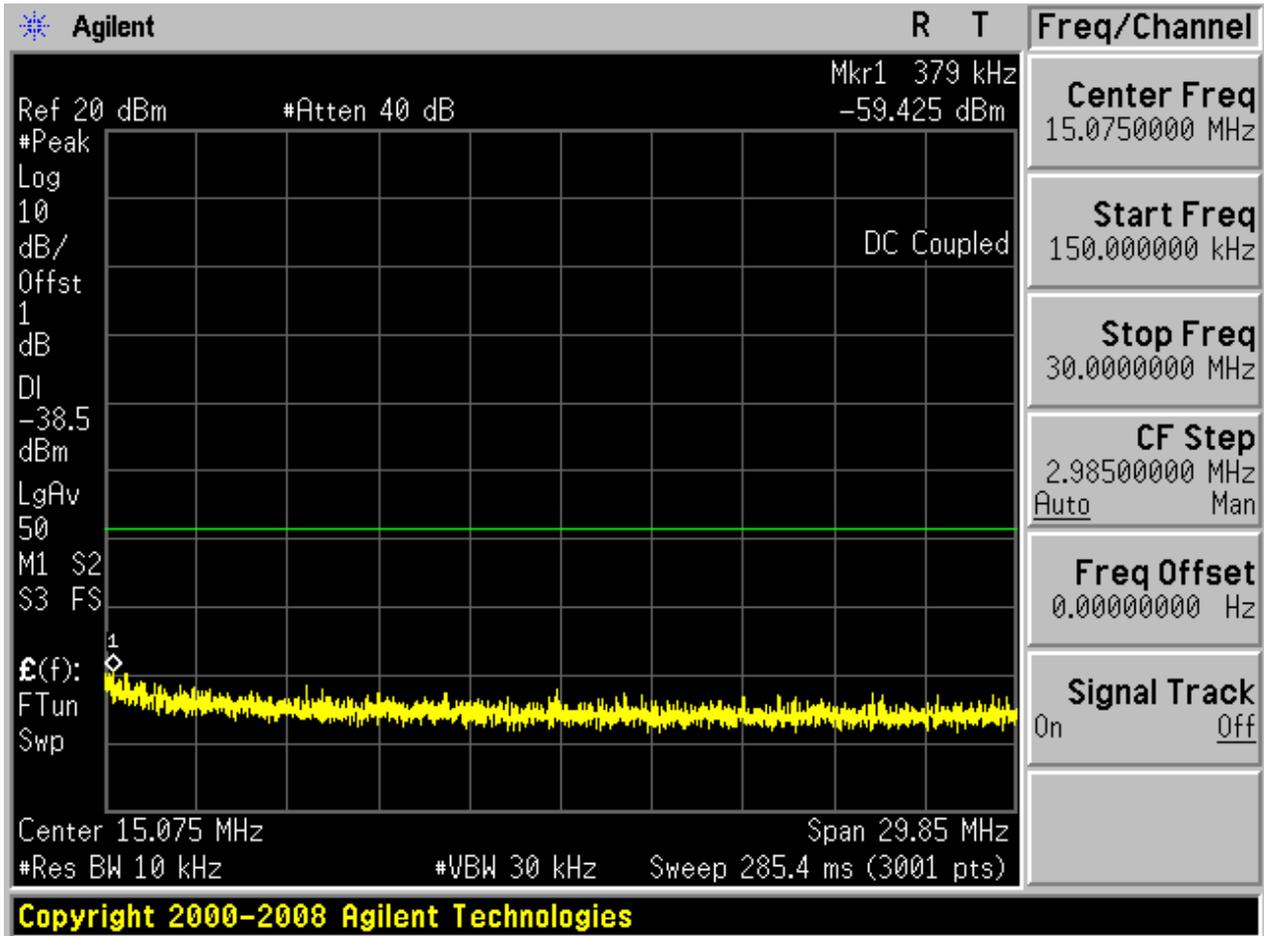
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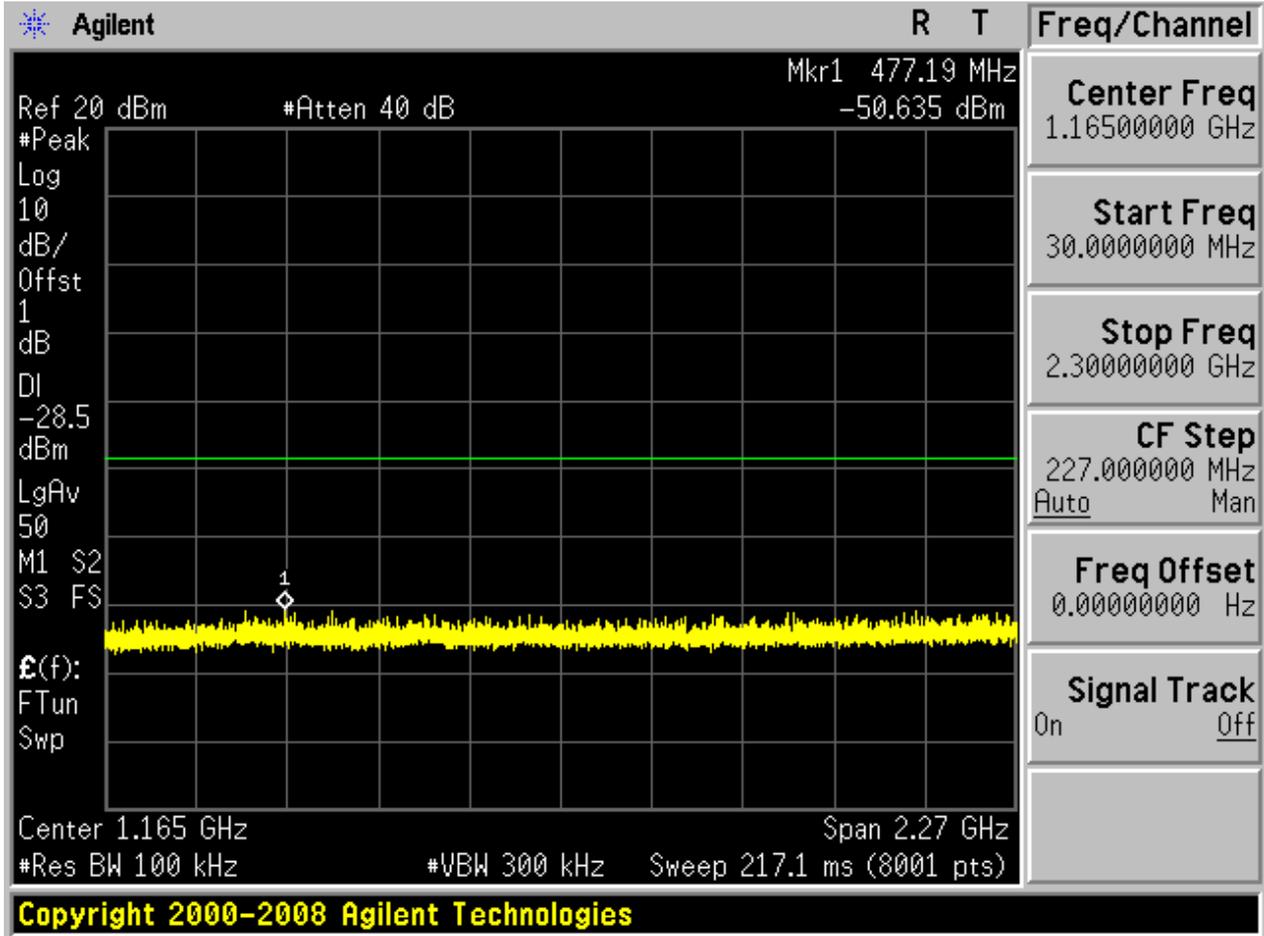


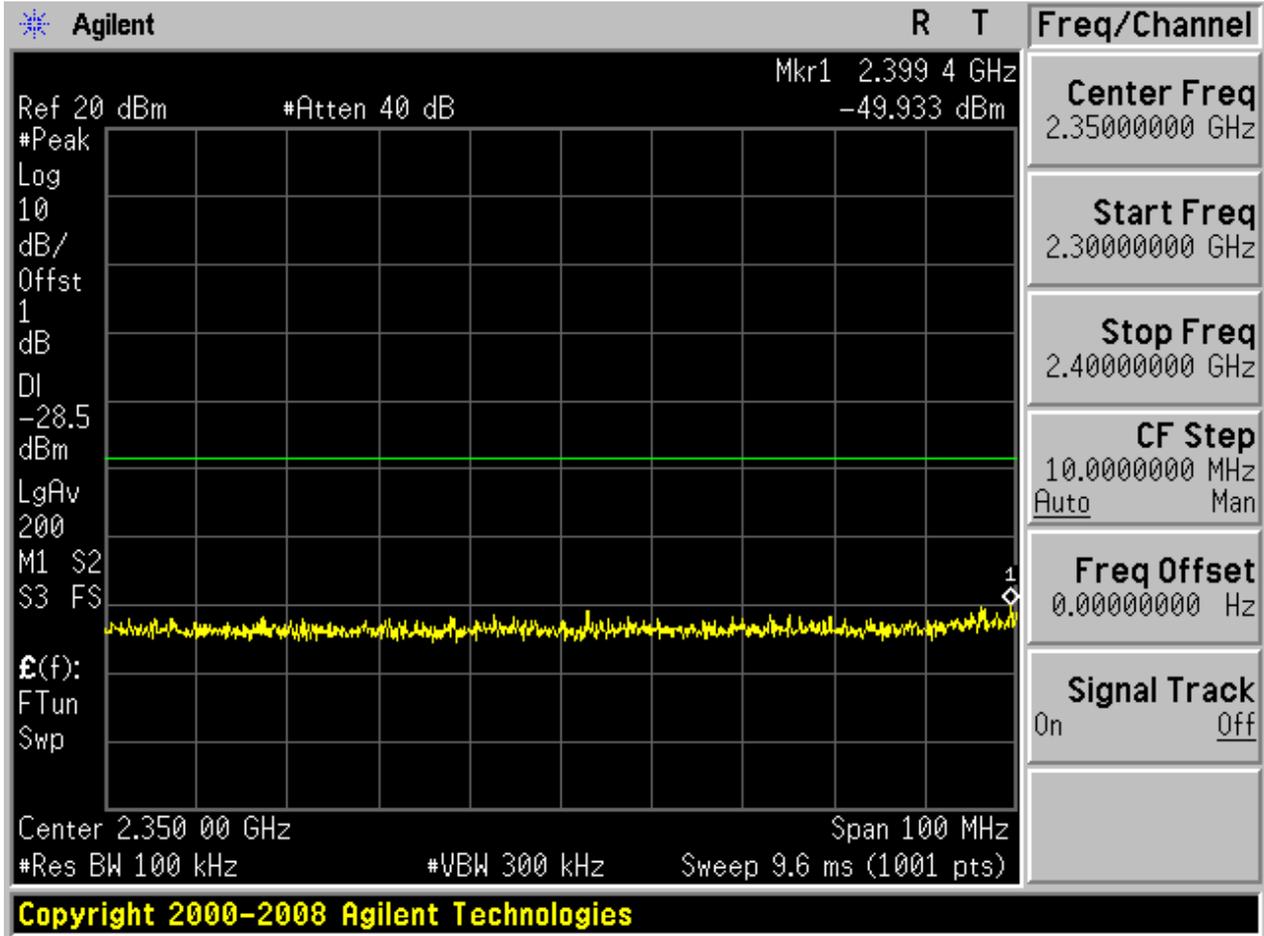


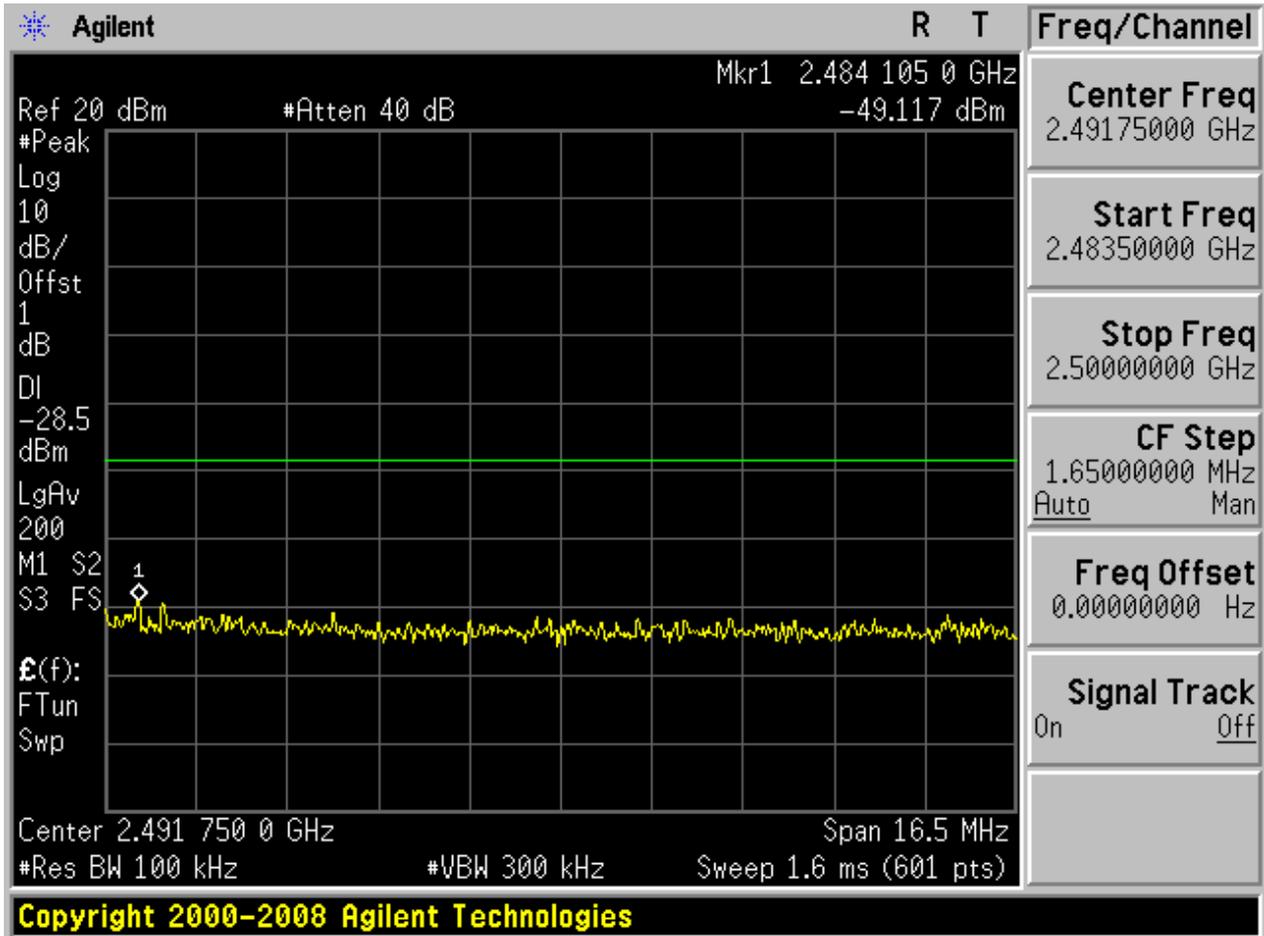
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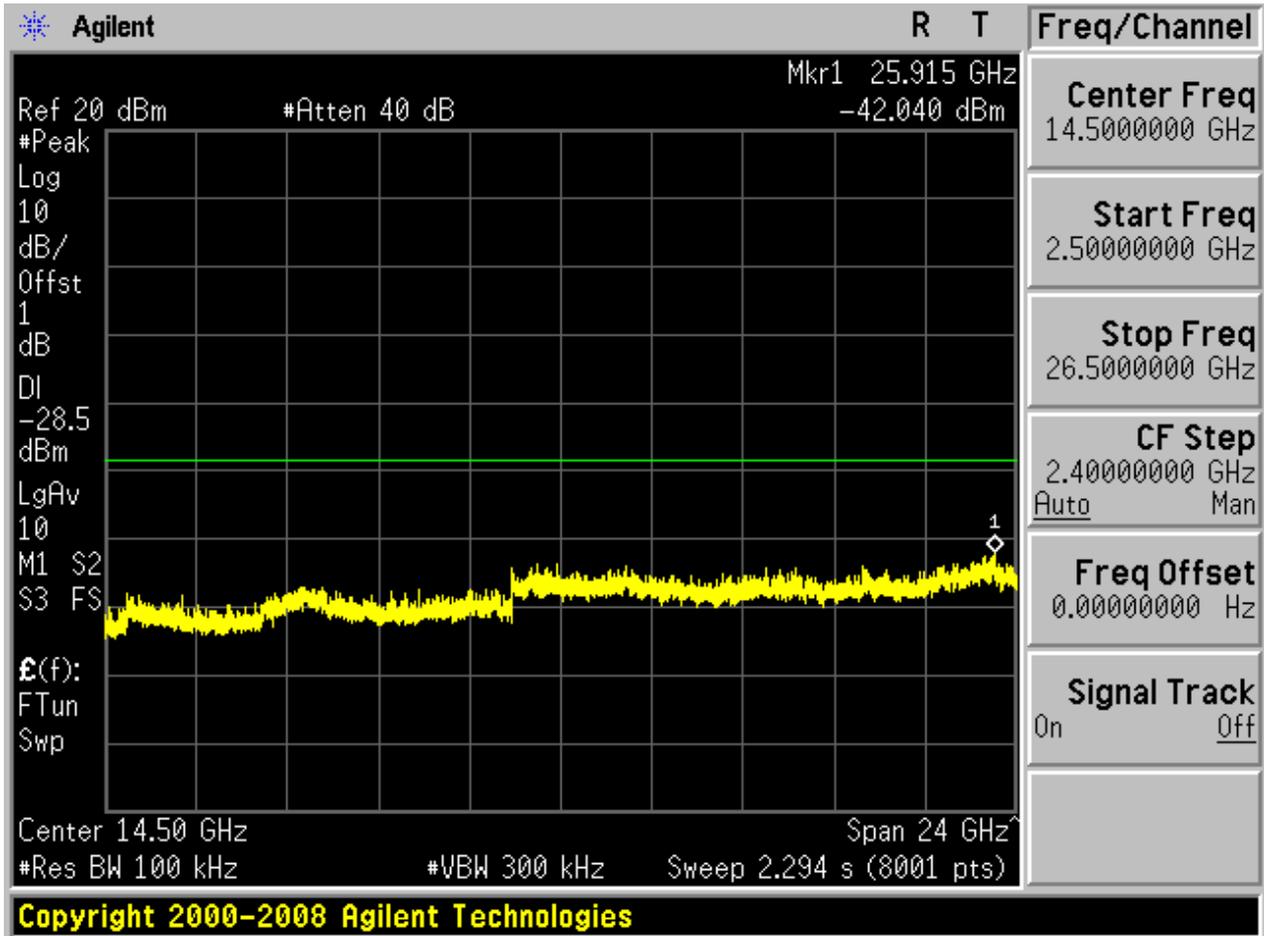








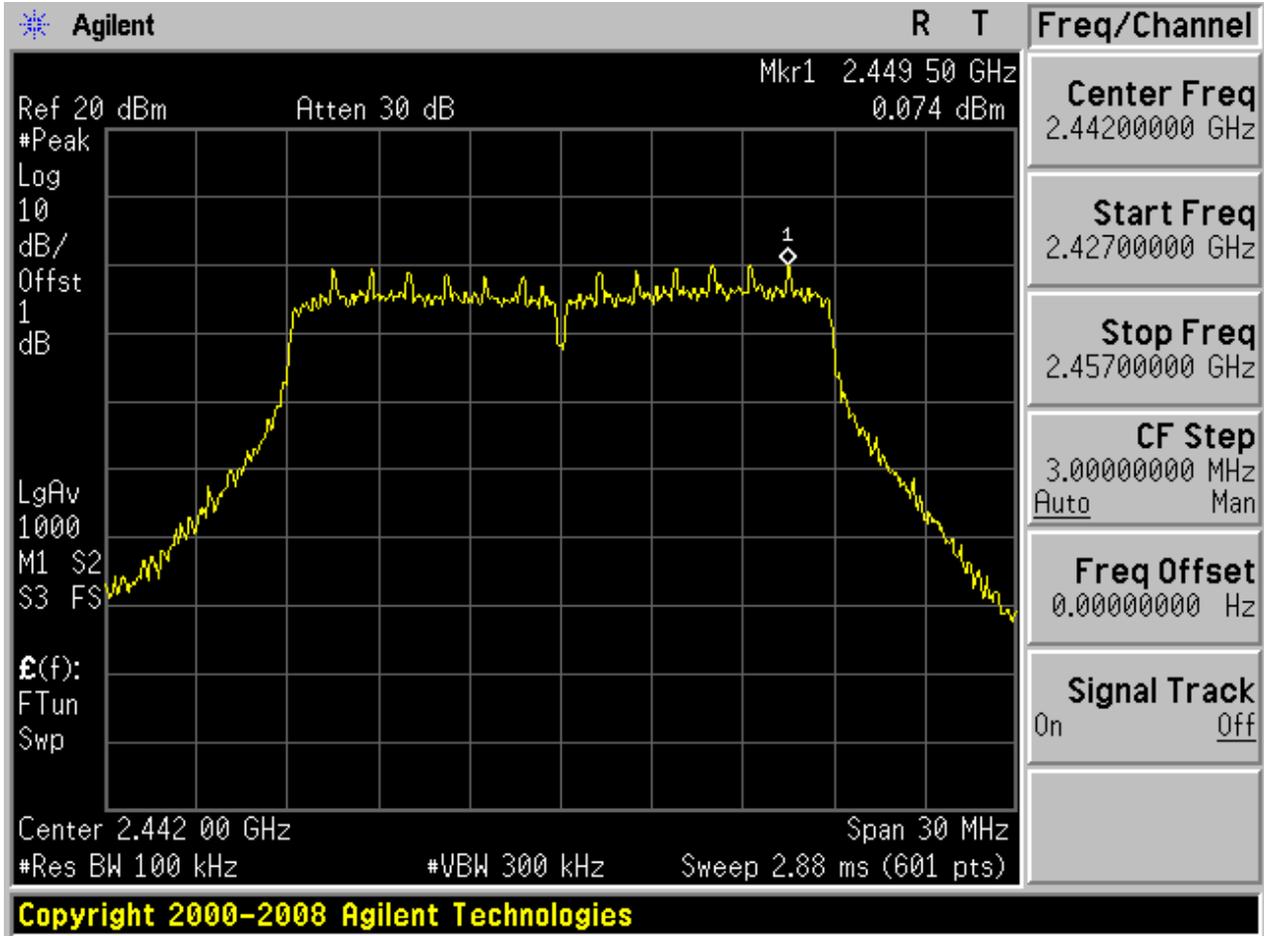
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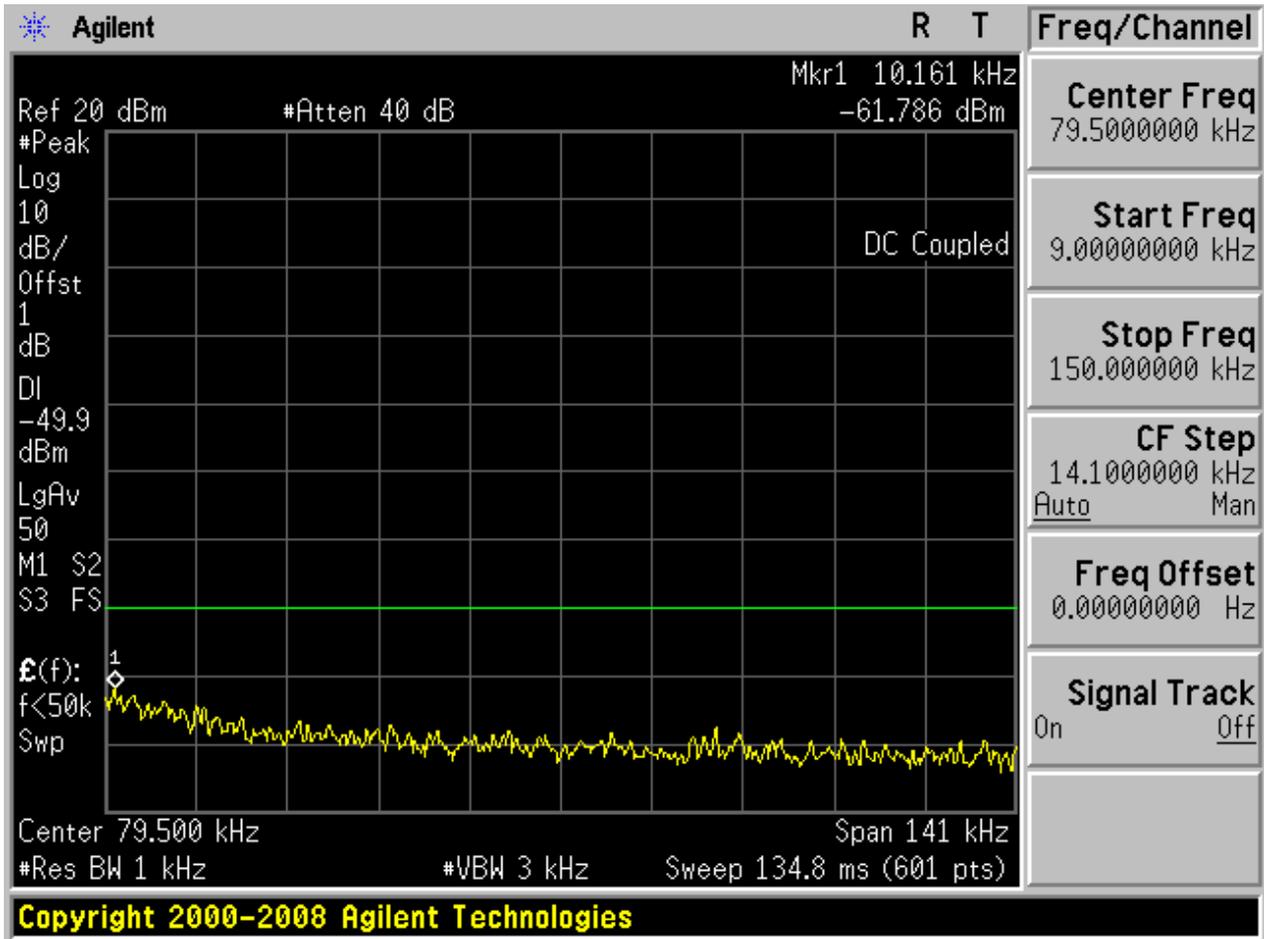
2.16 11N20\_M@Ant 2

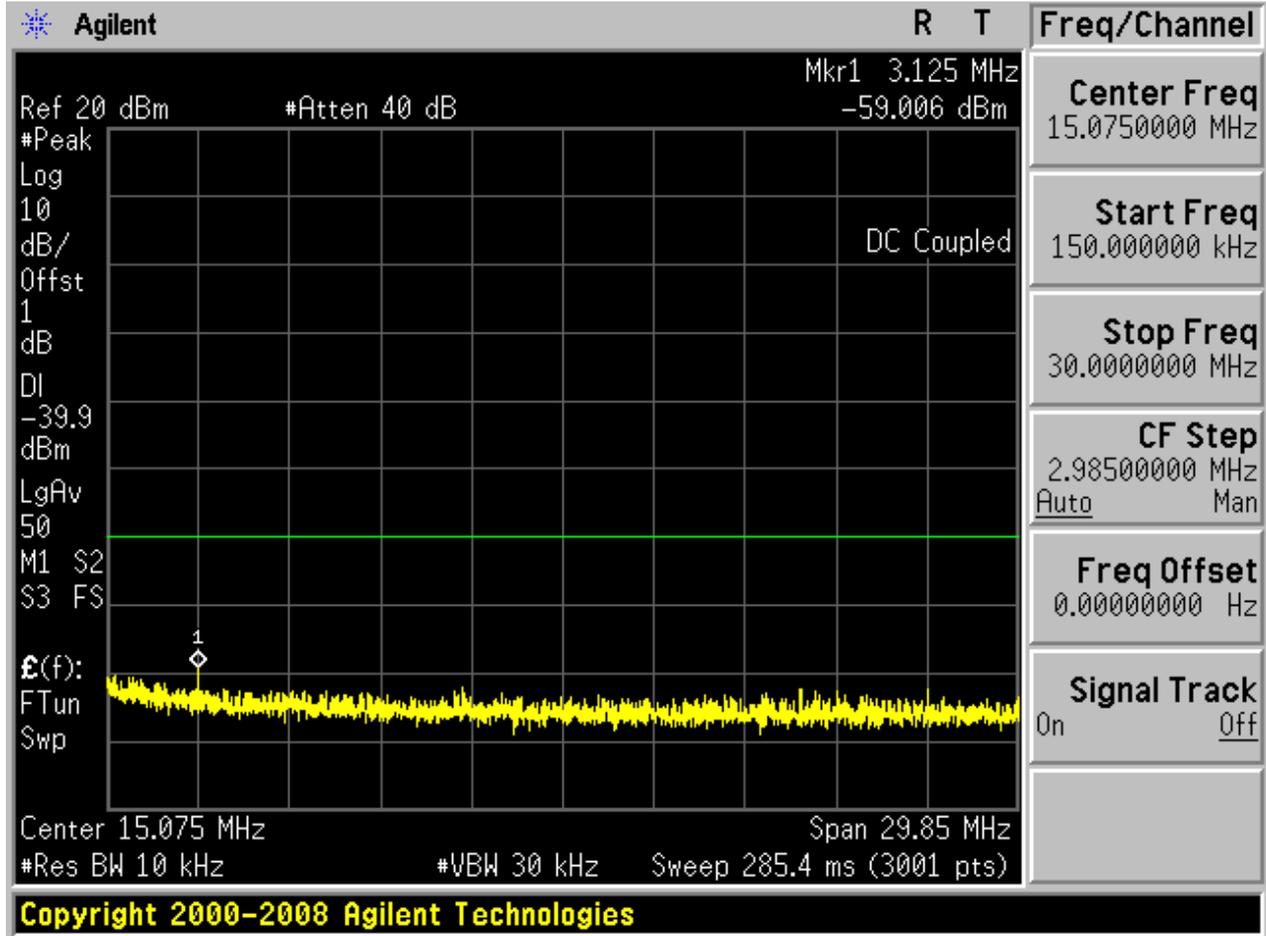
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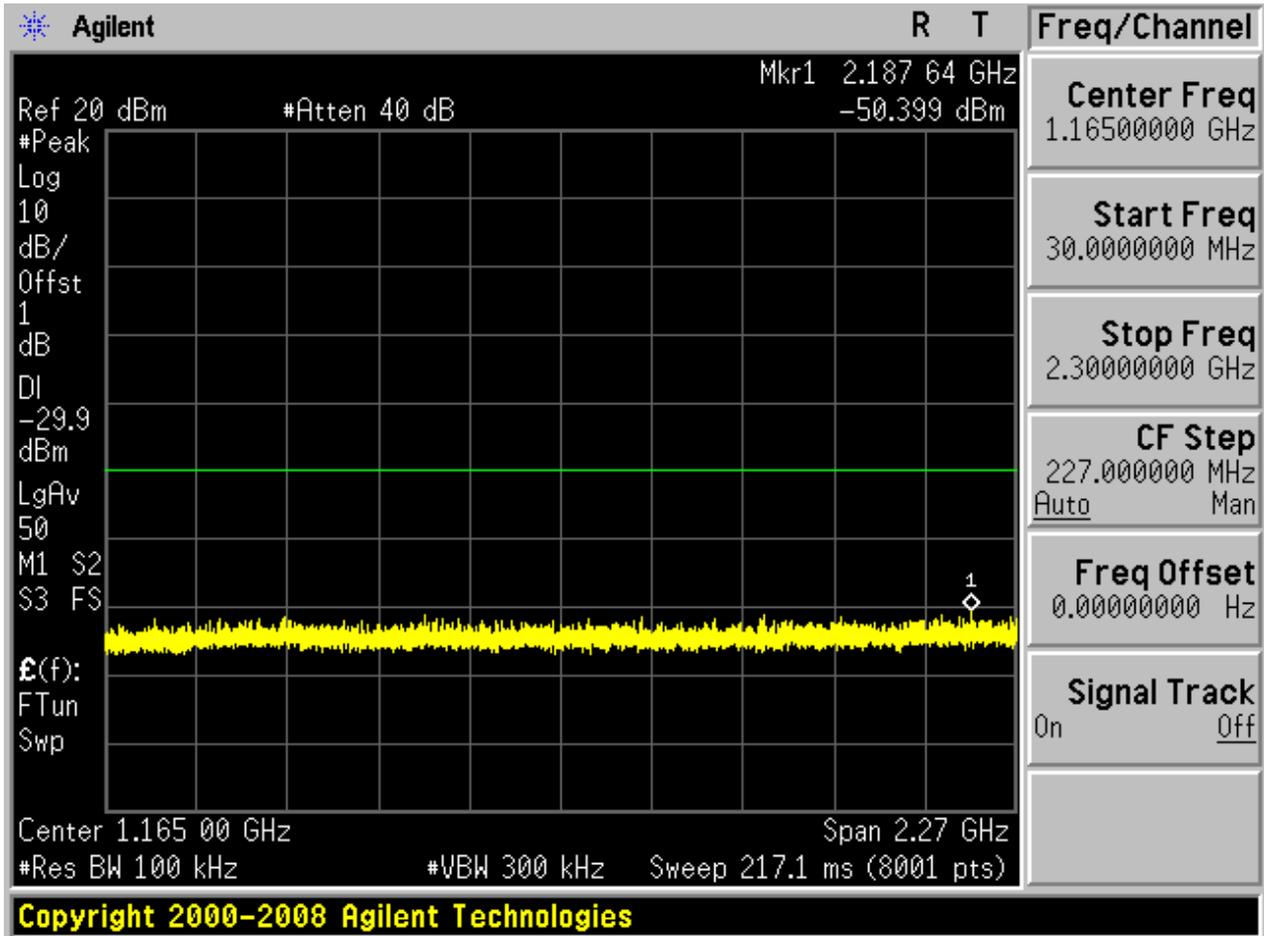


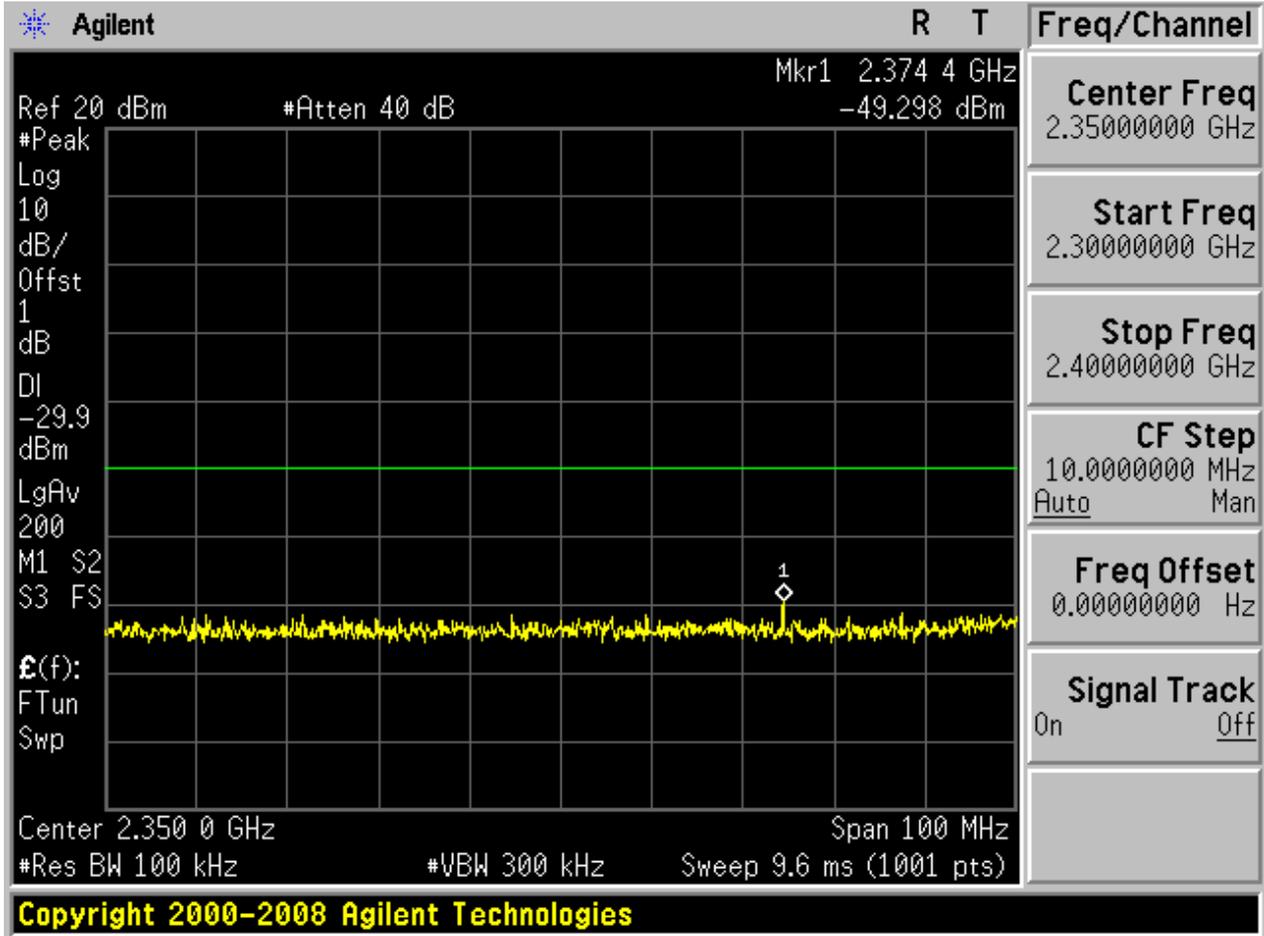


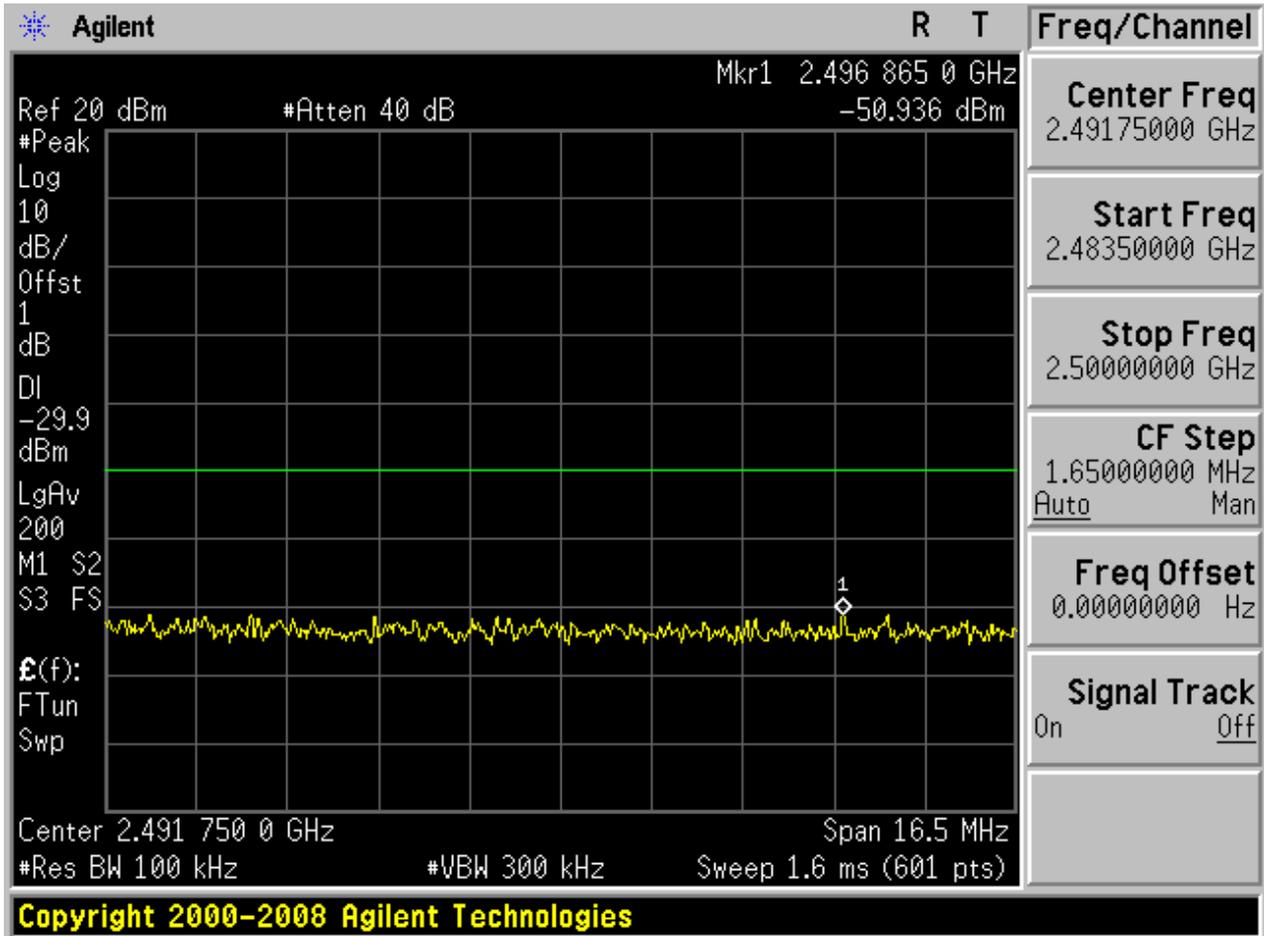
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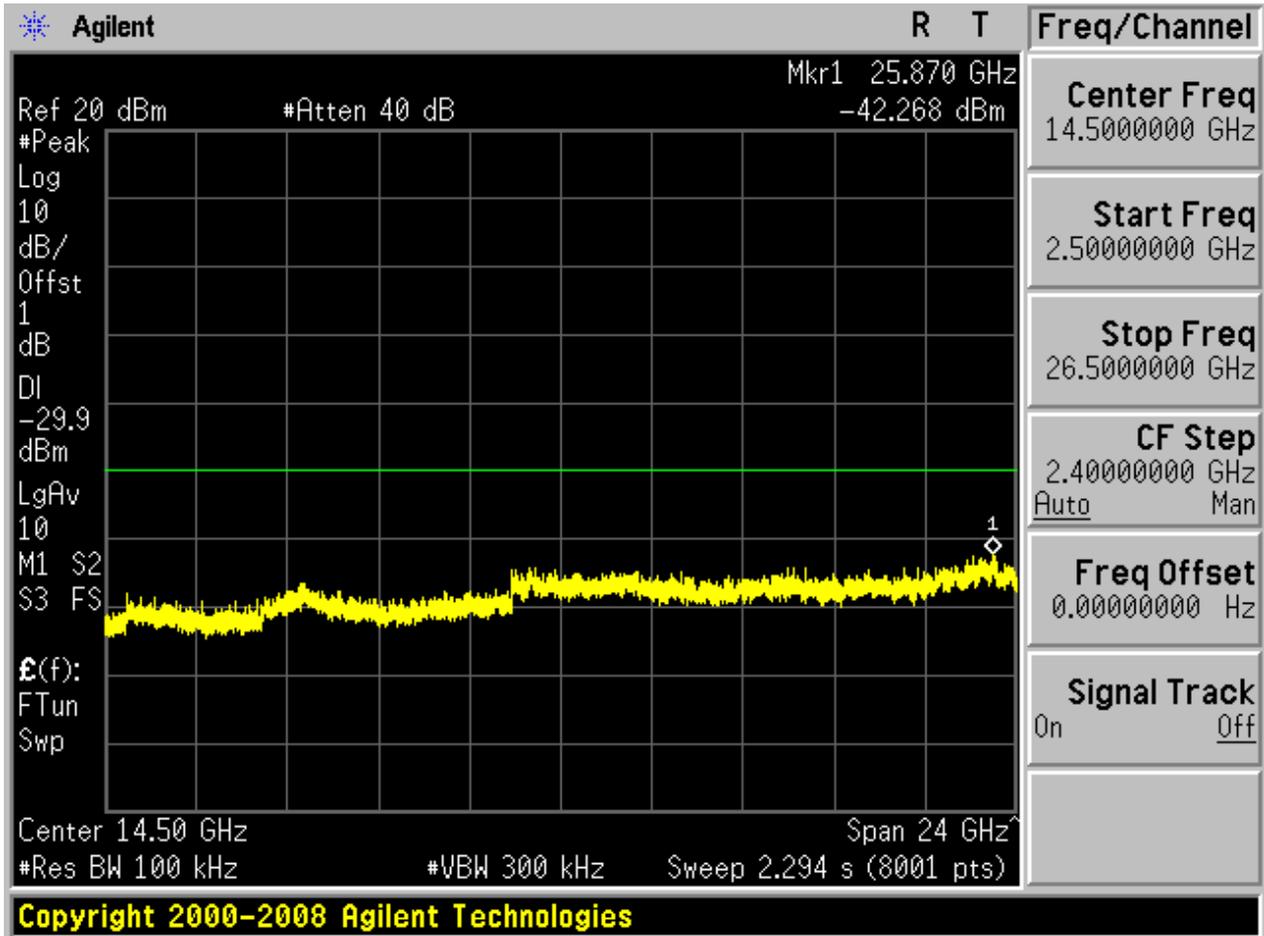








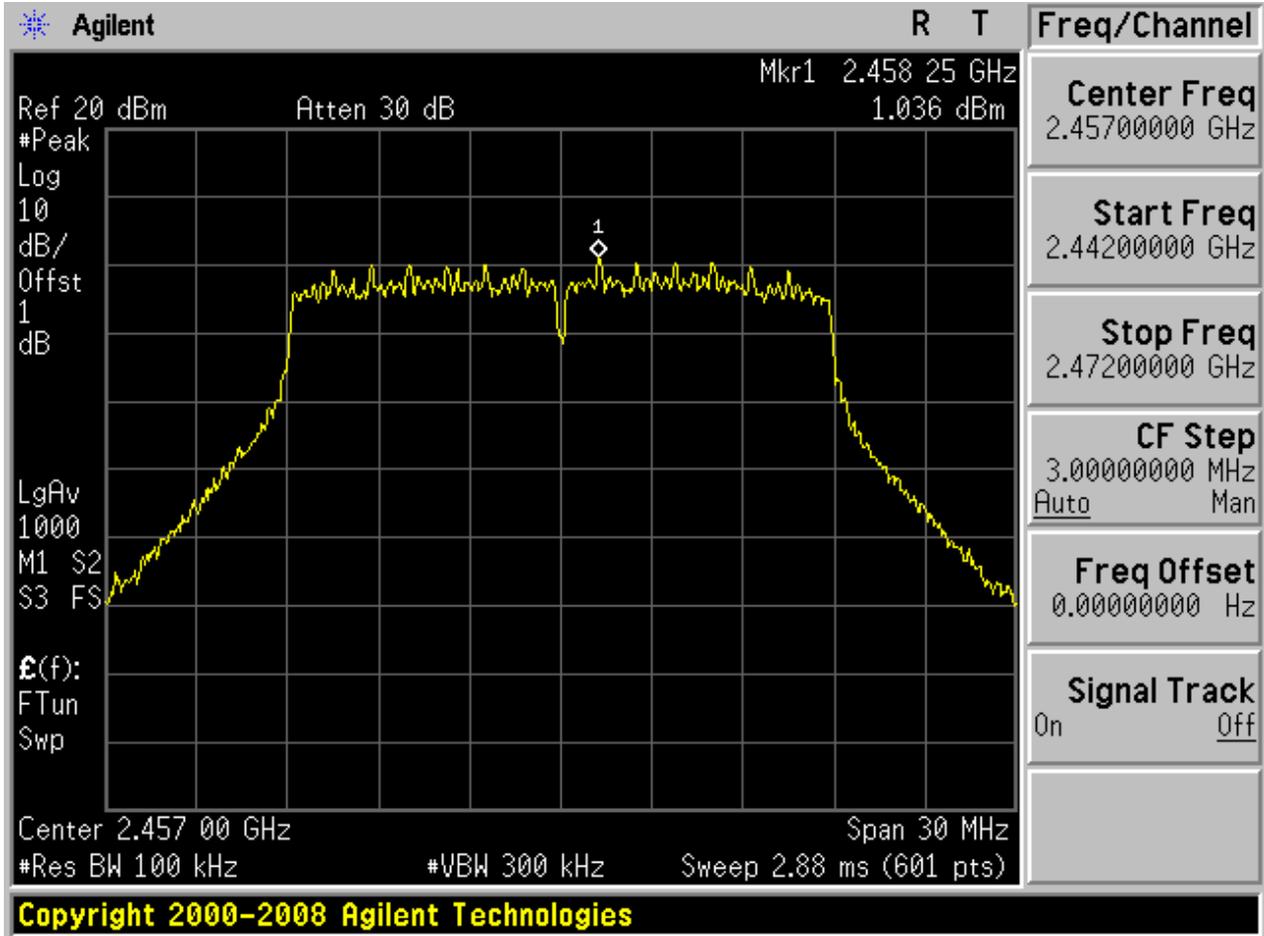






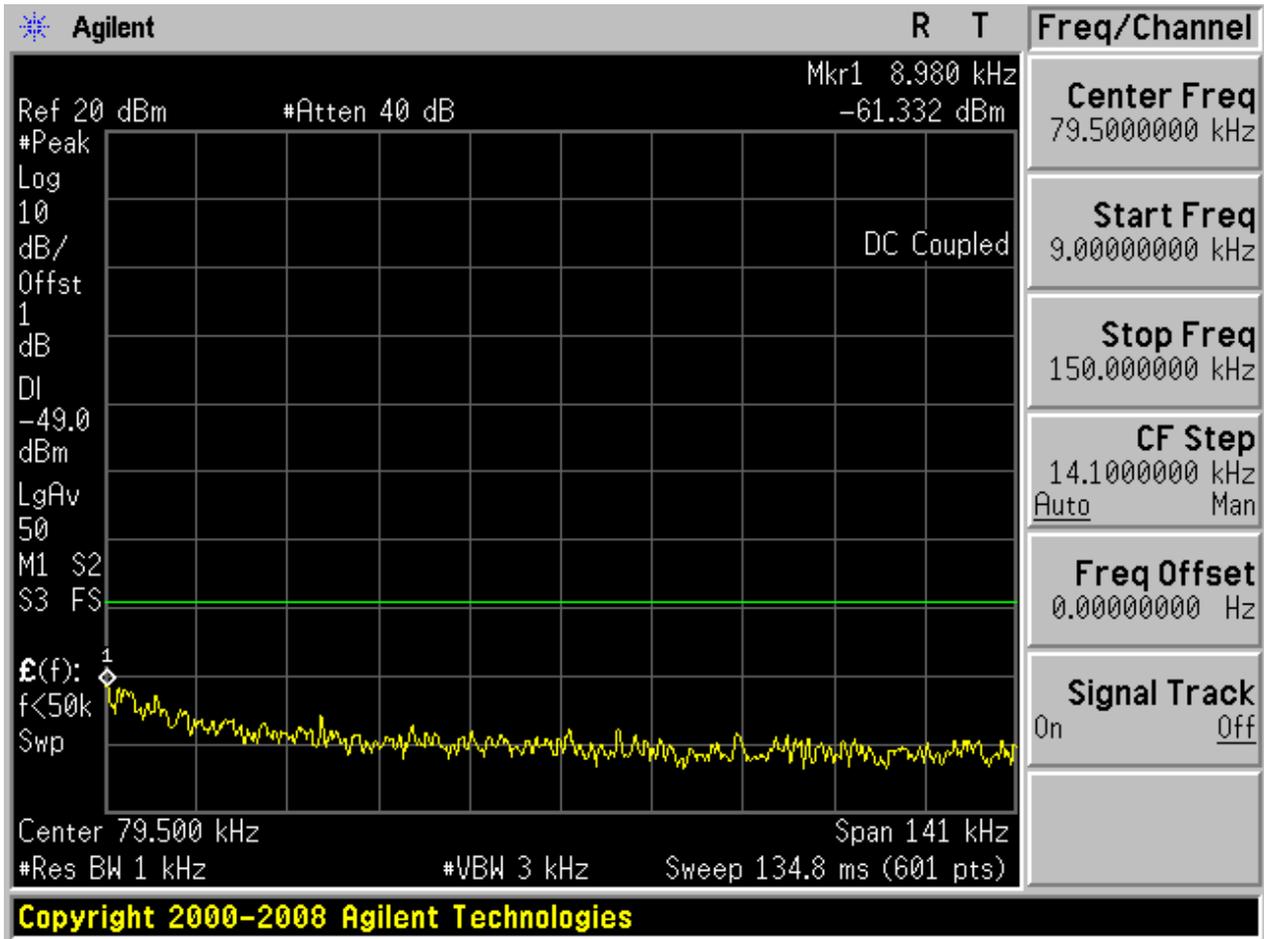
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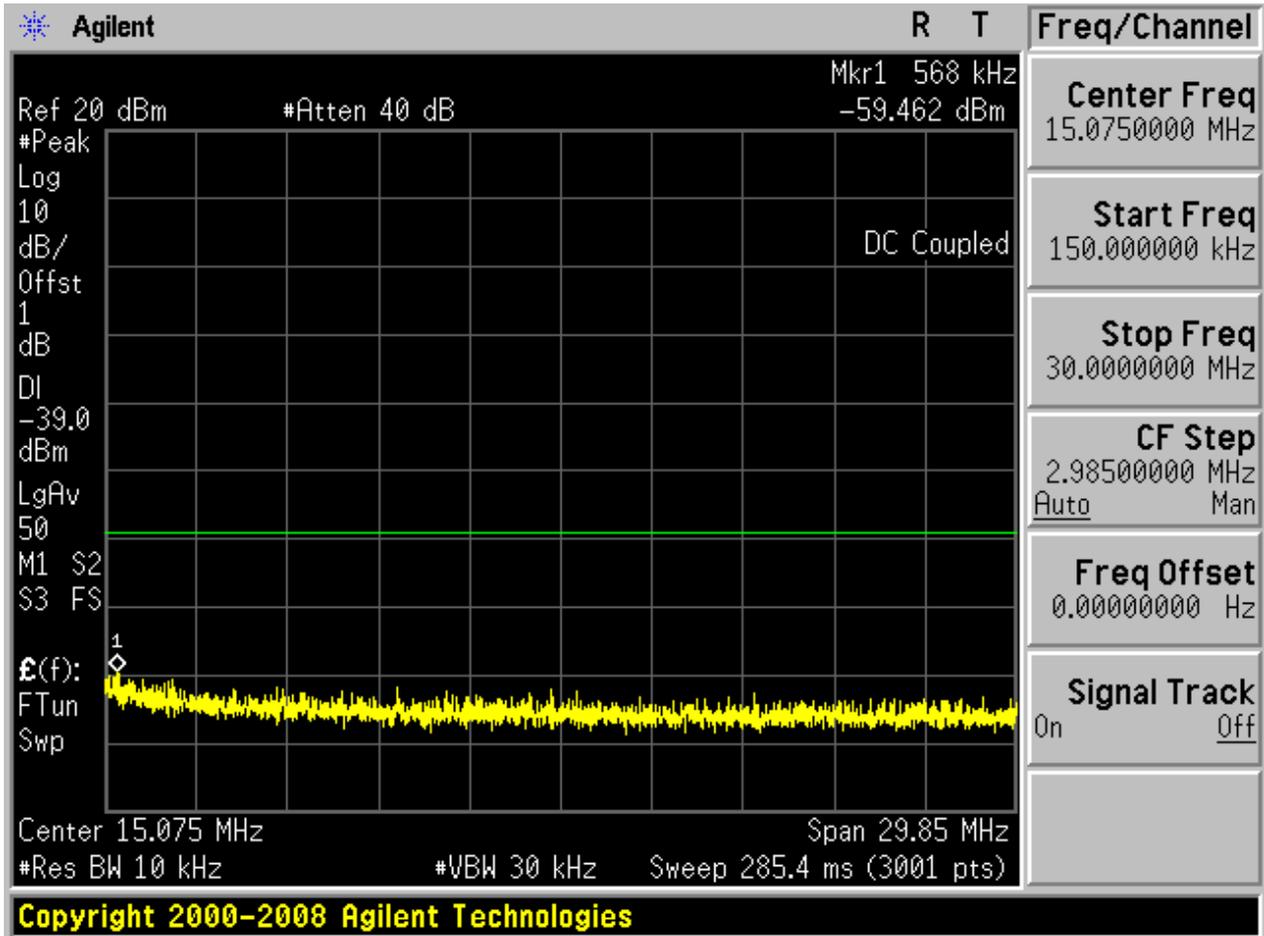
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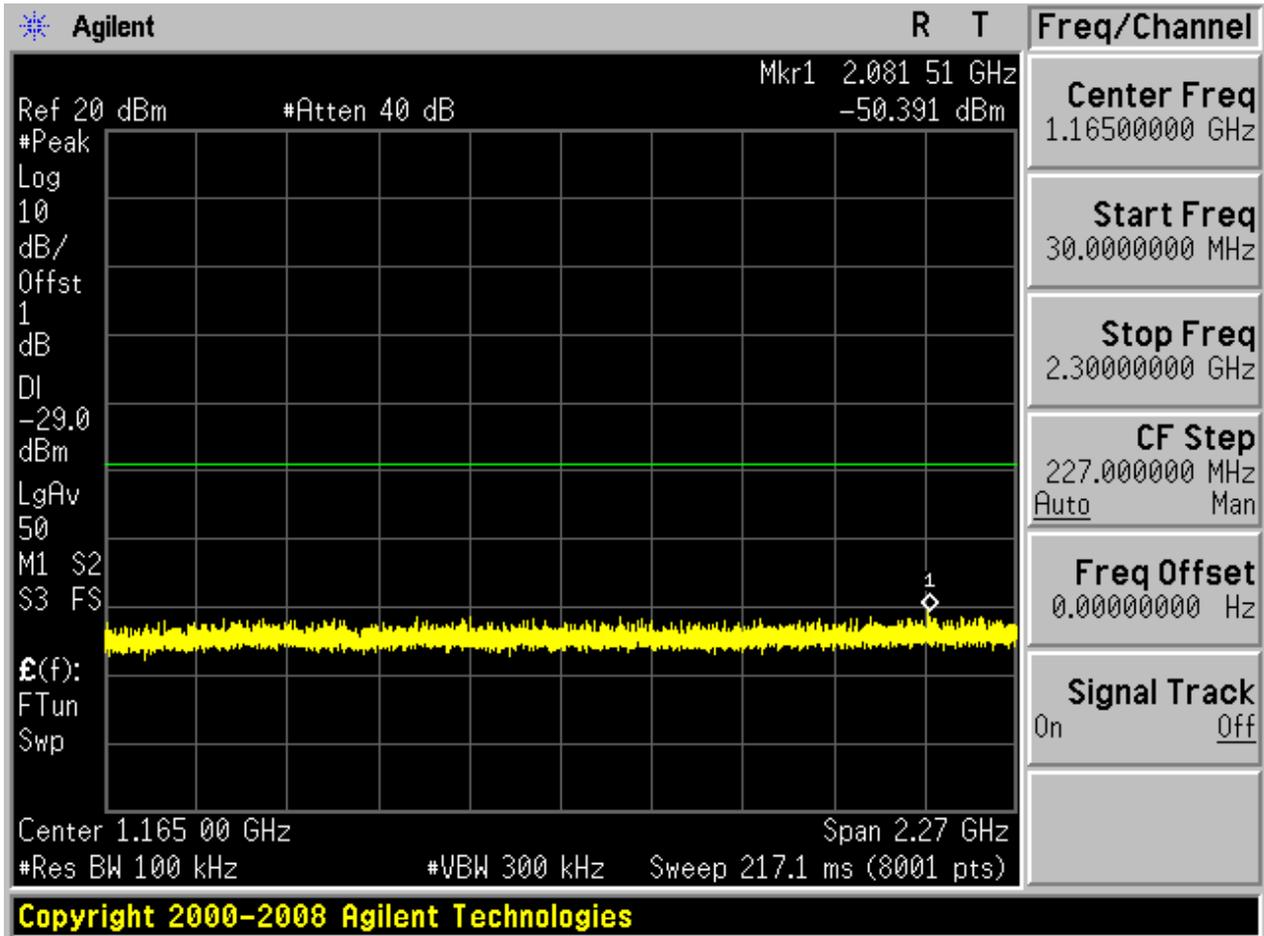


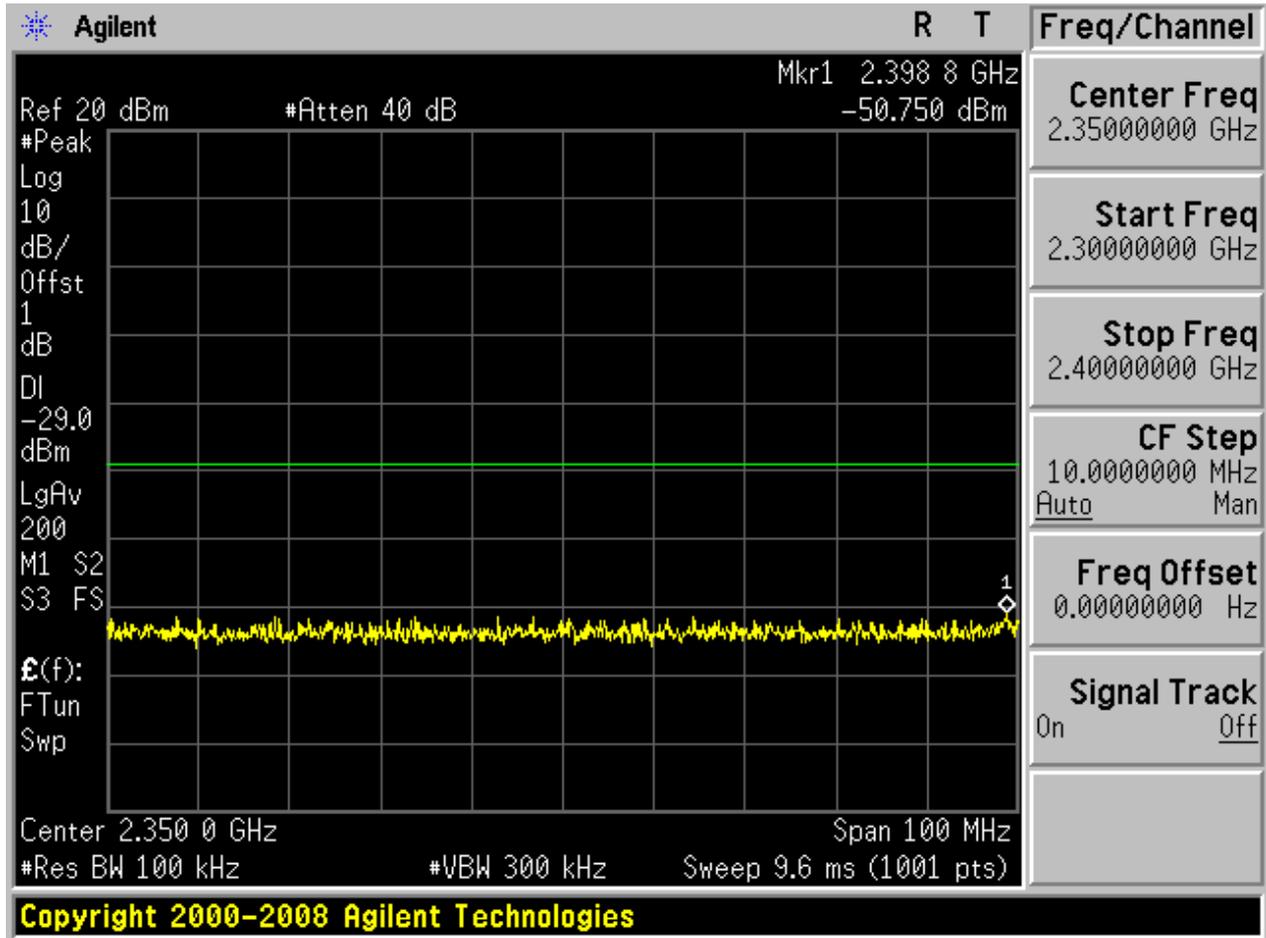


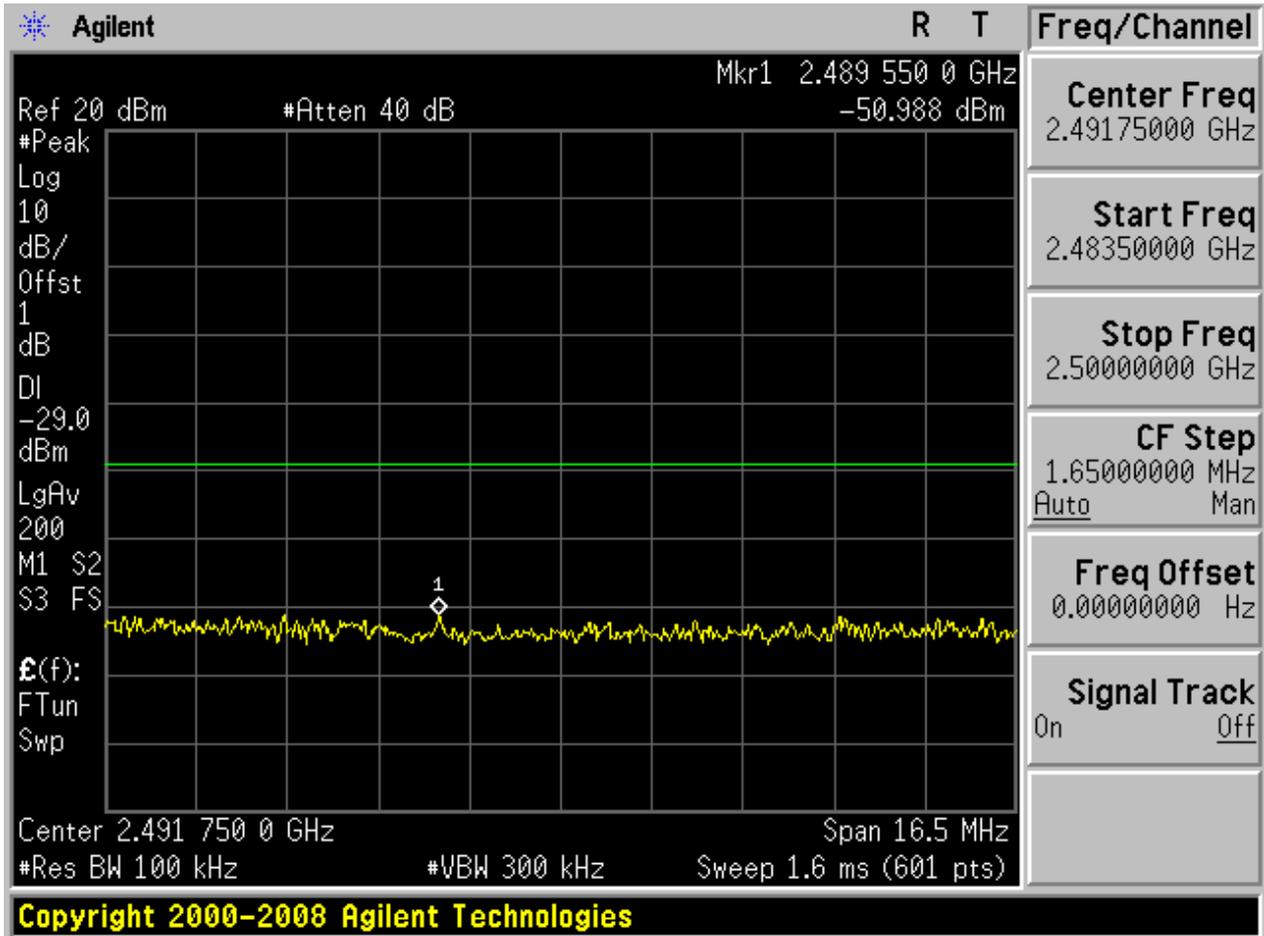
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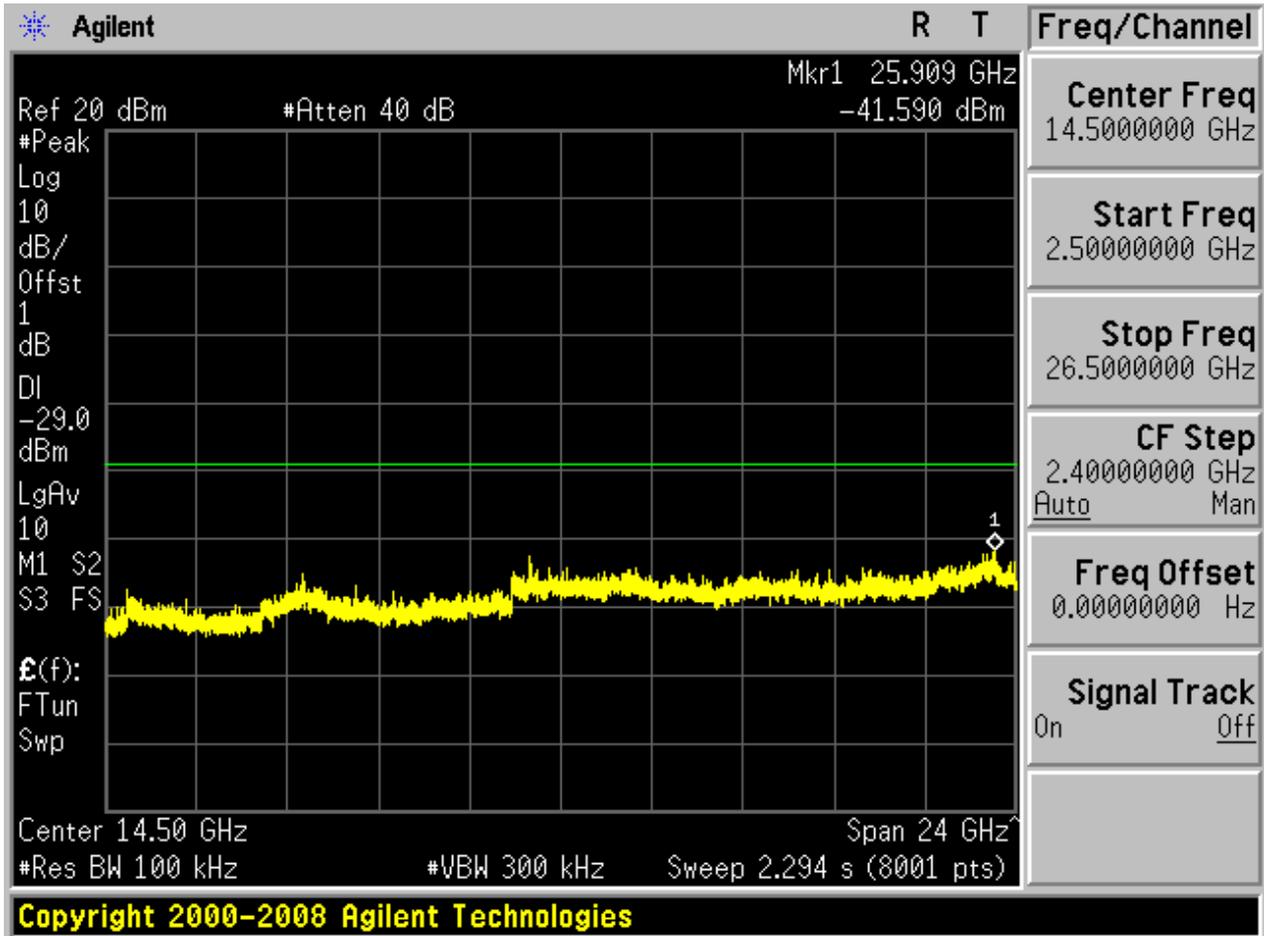








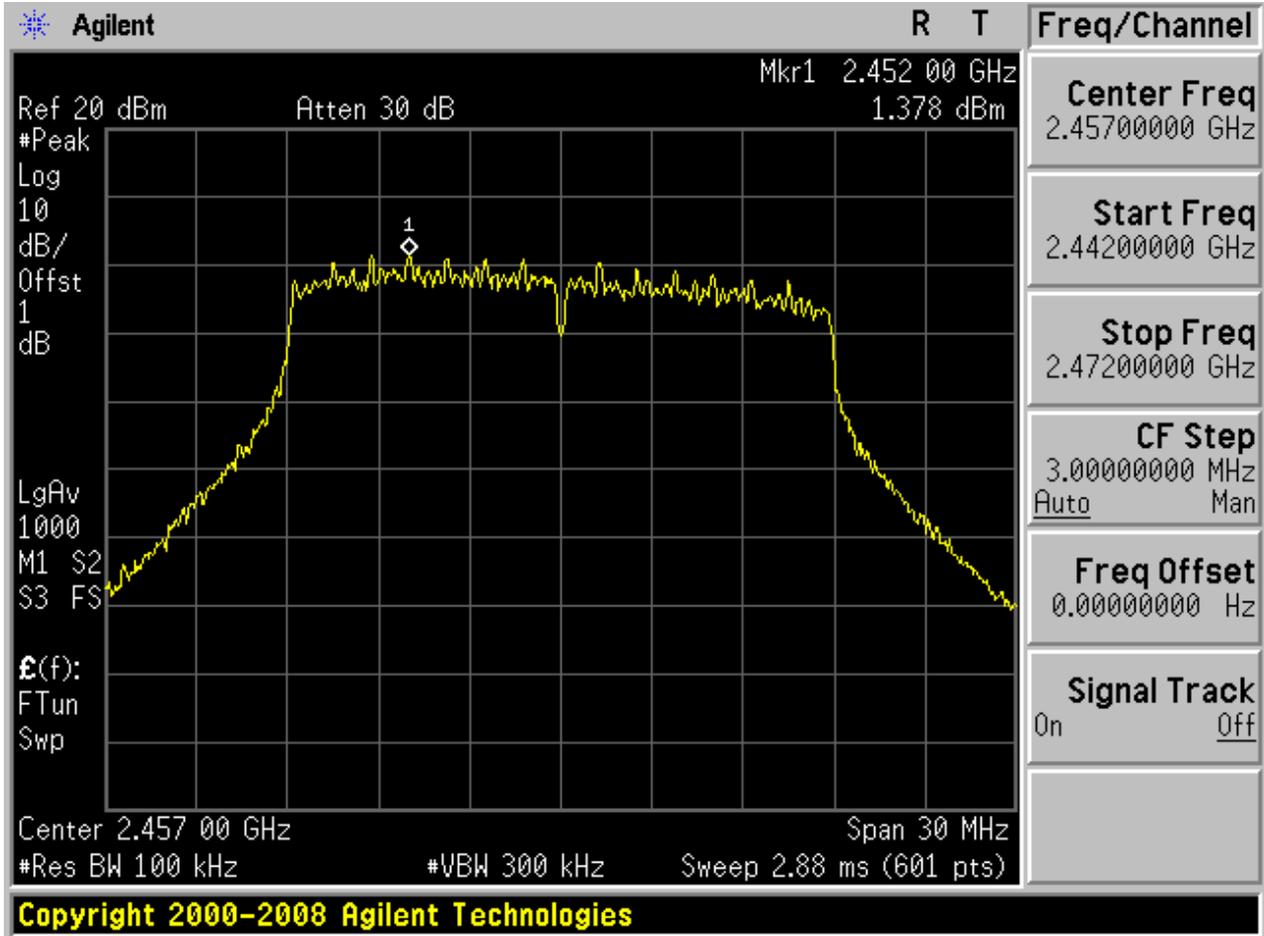






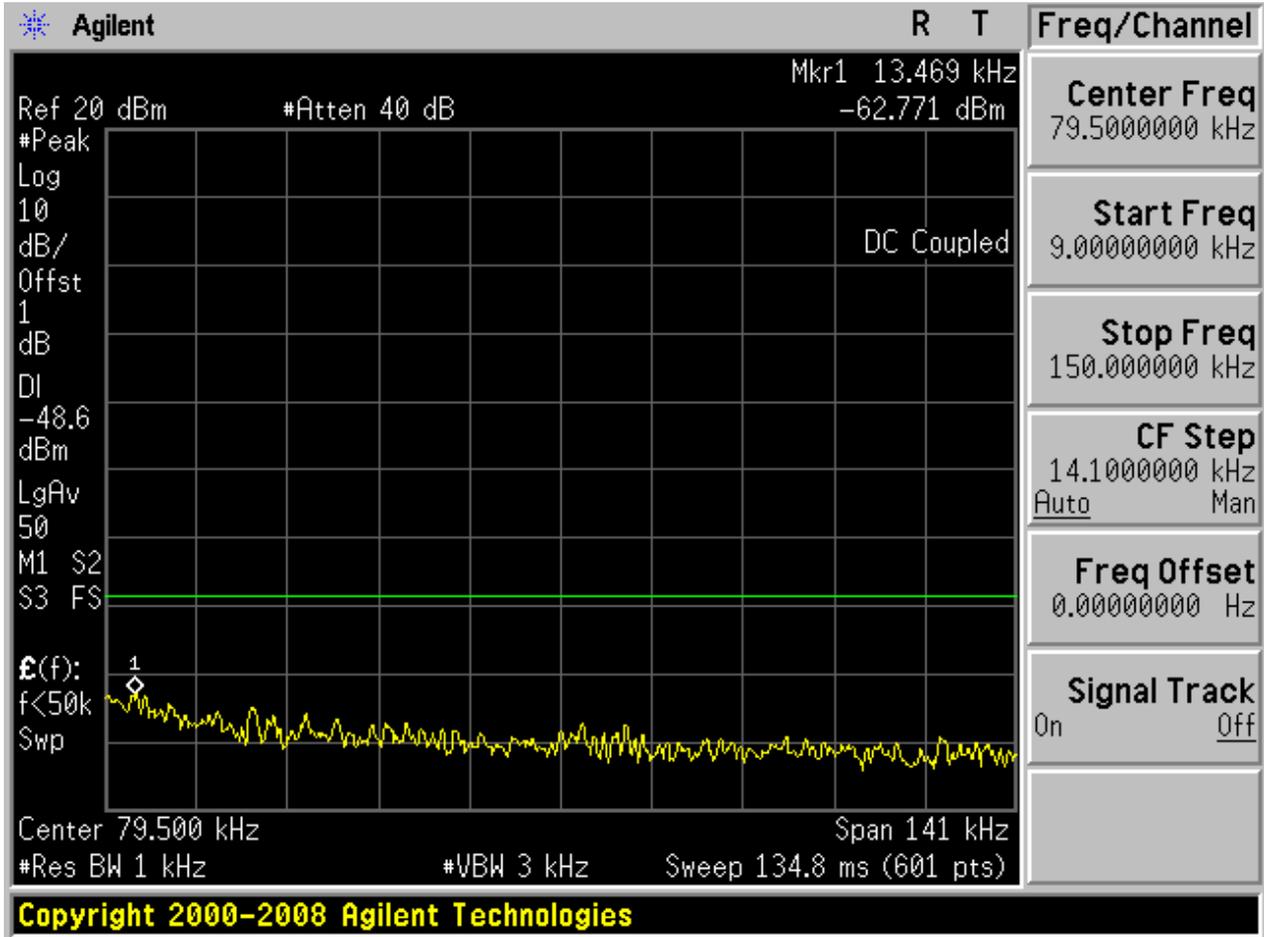
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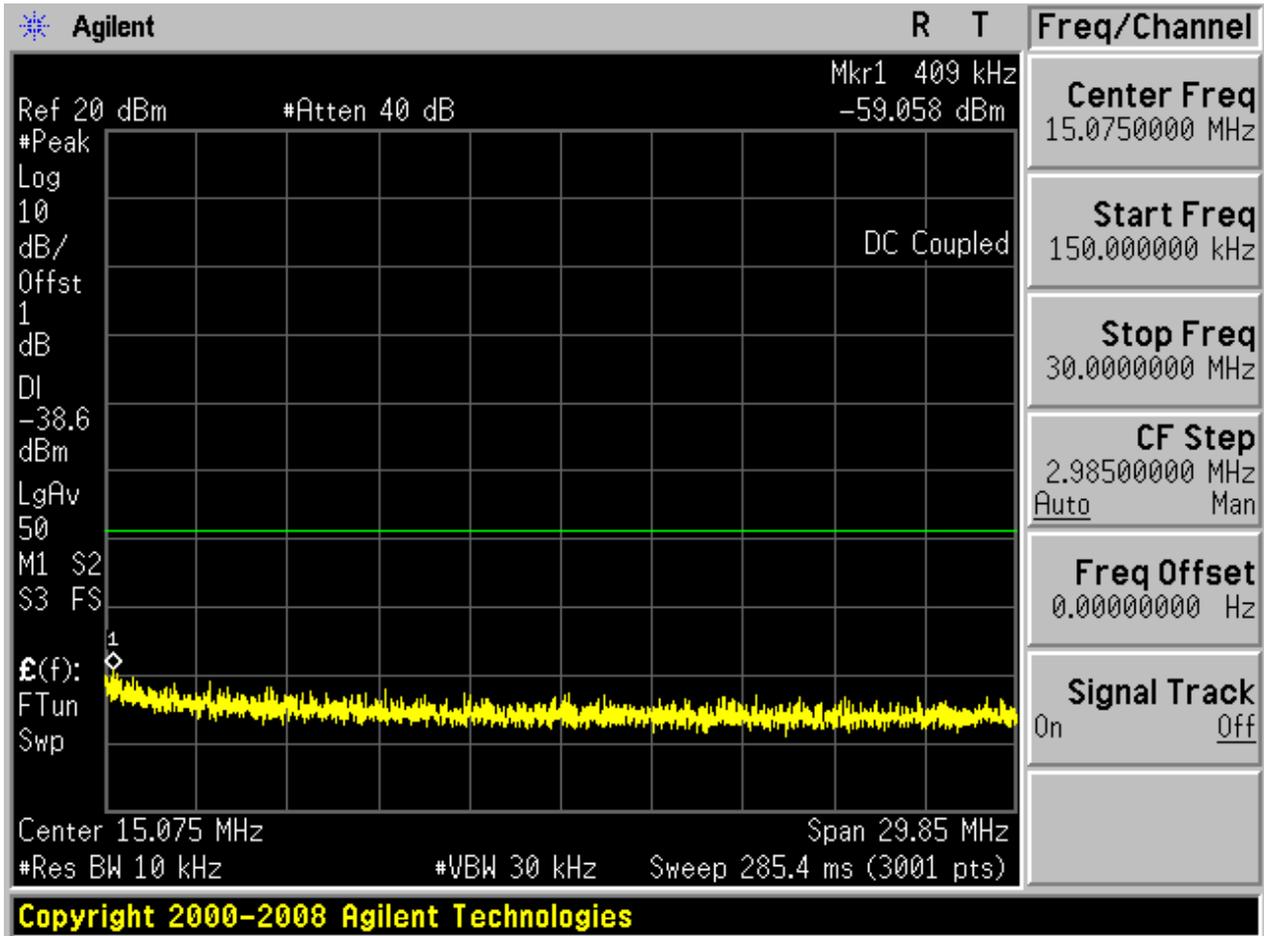
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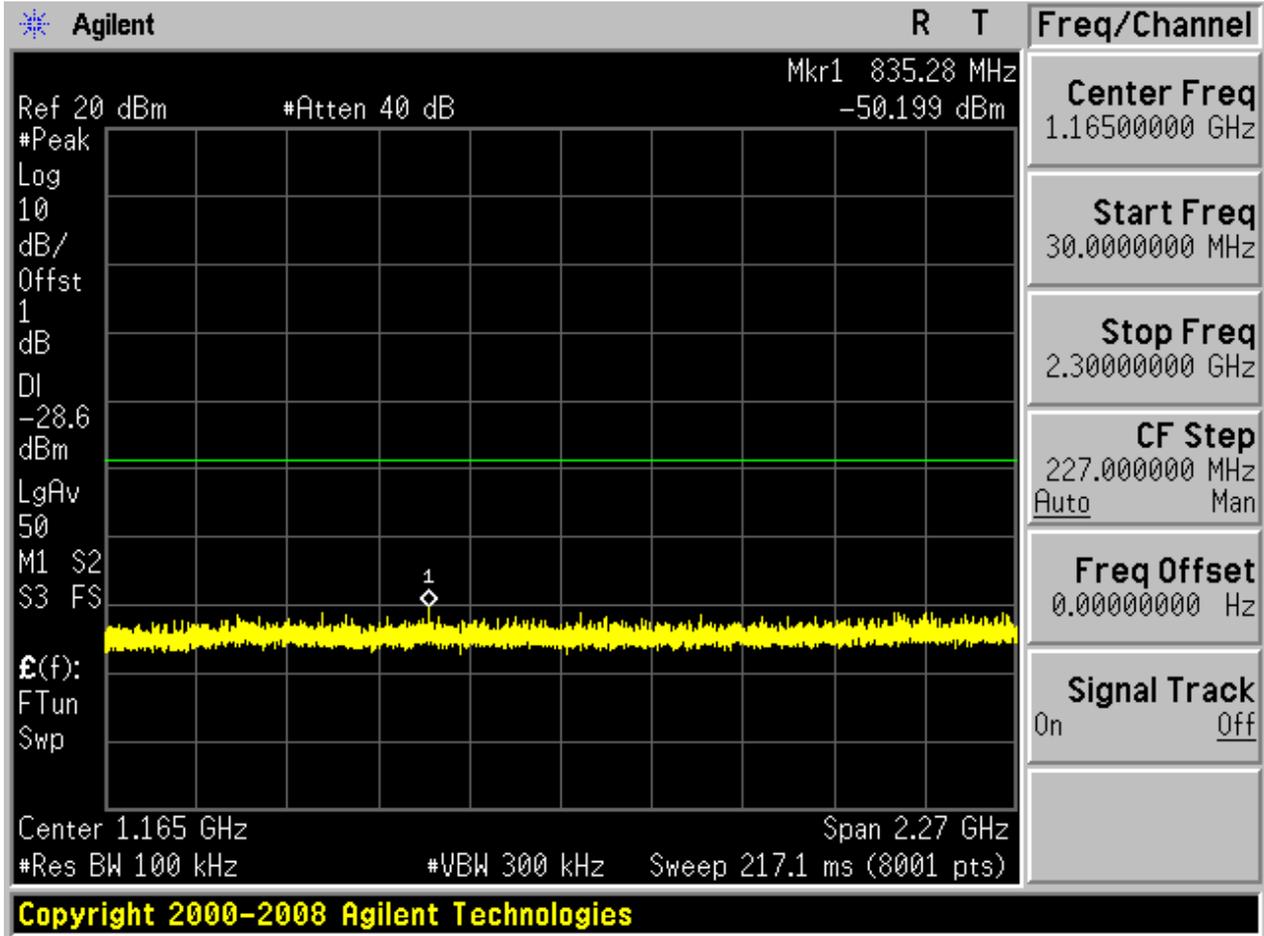


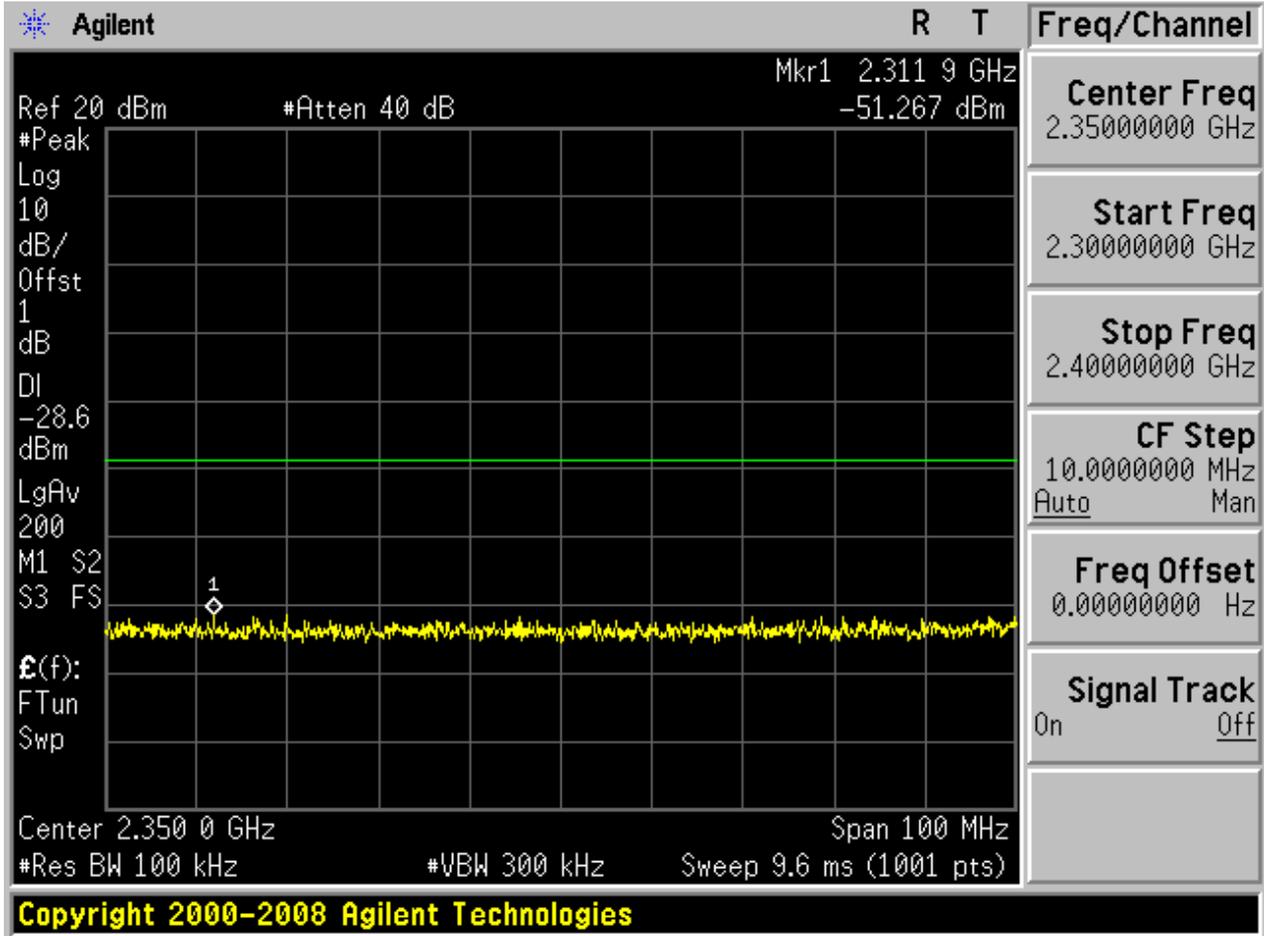


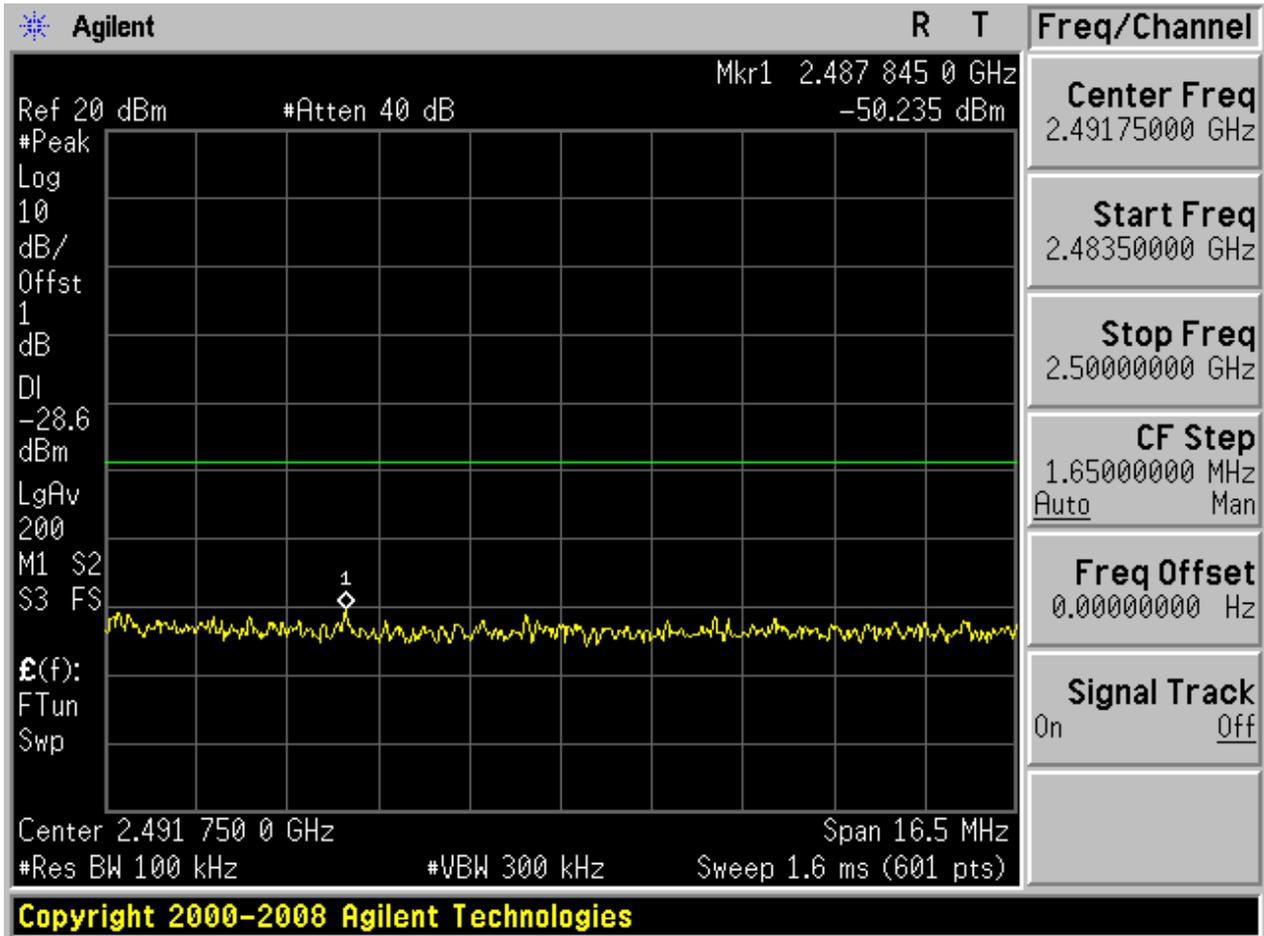
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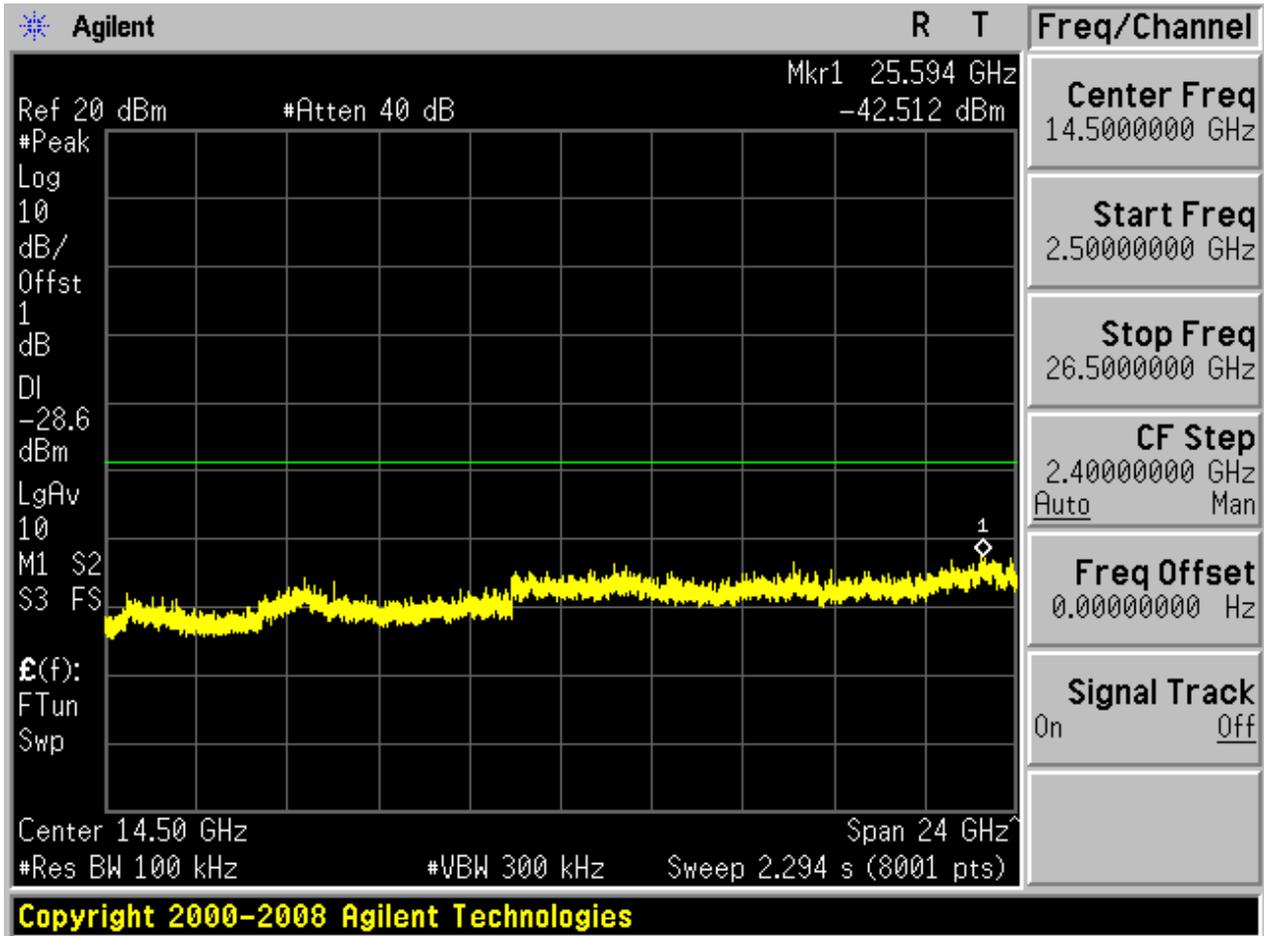








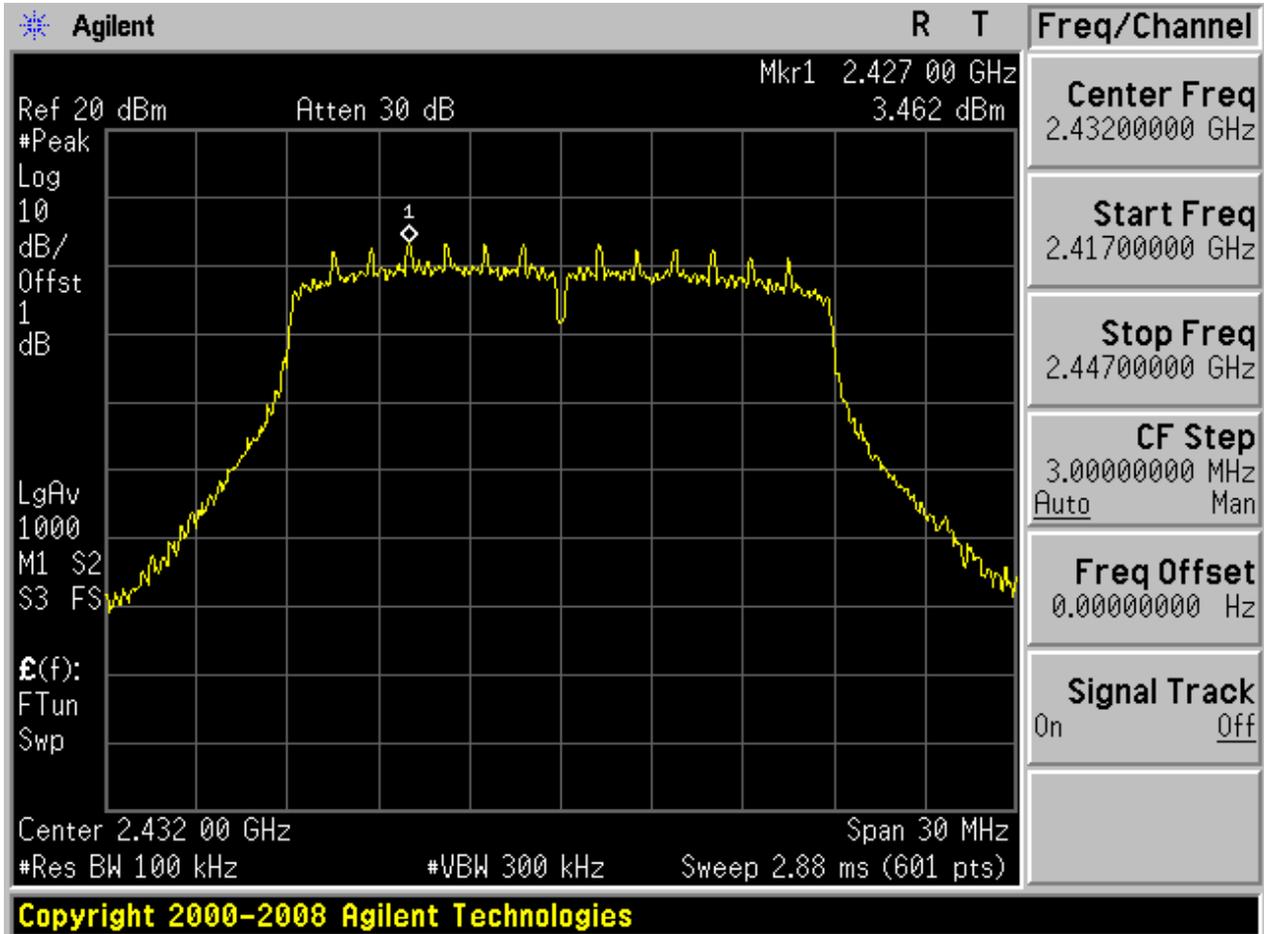




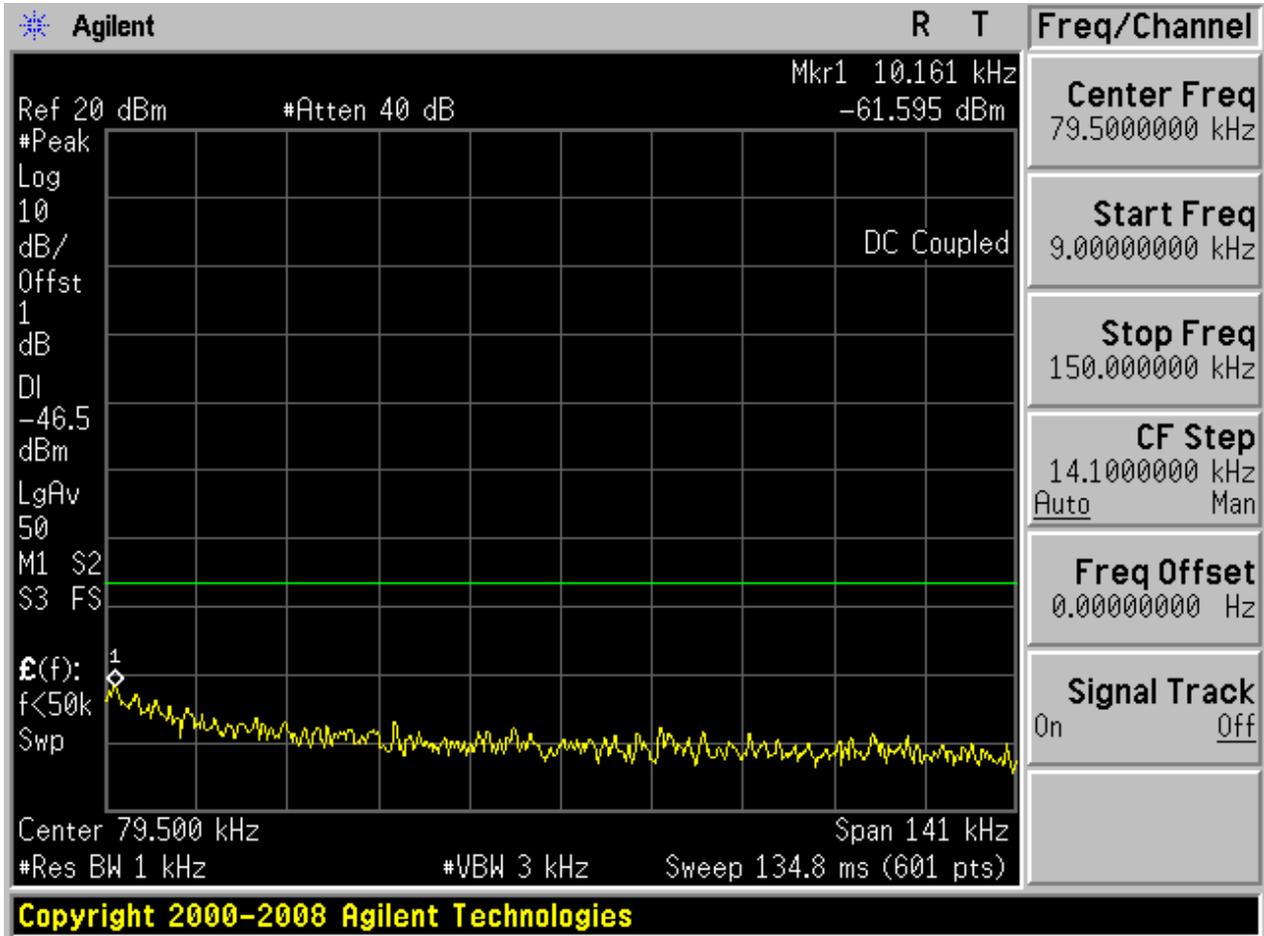


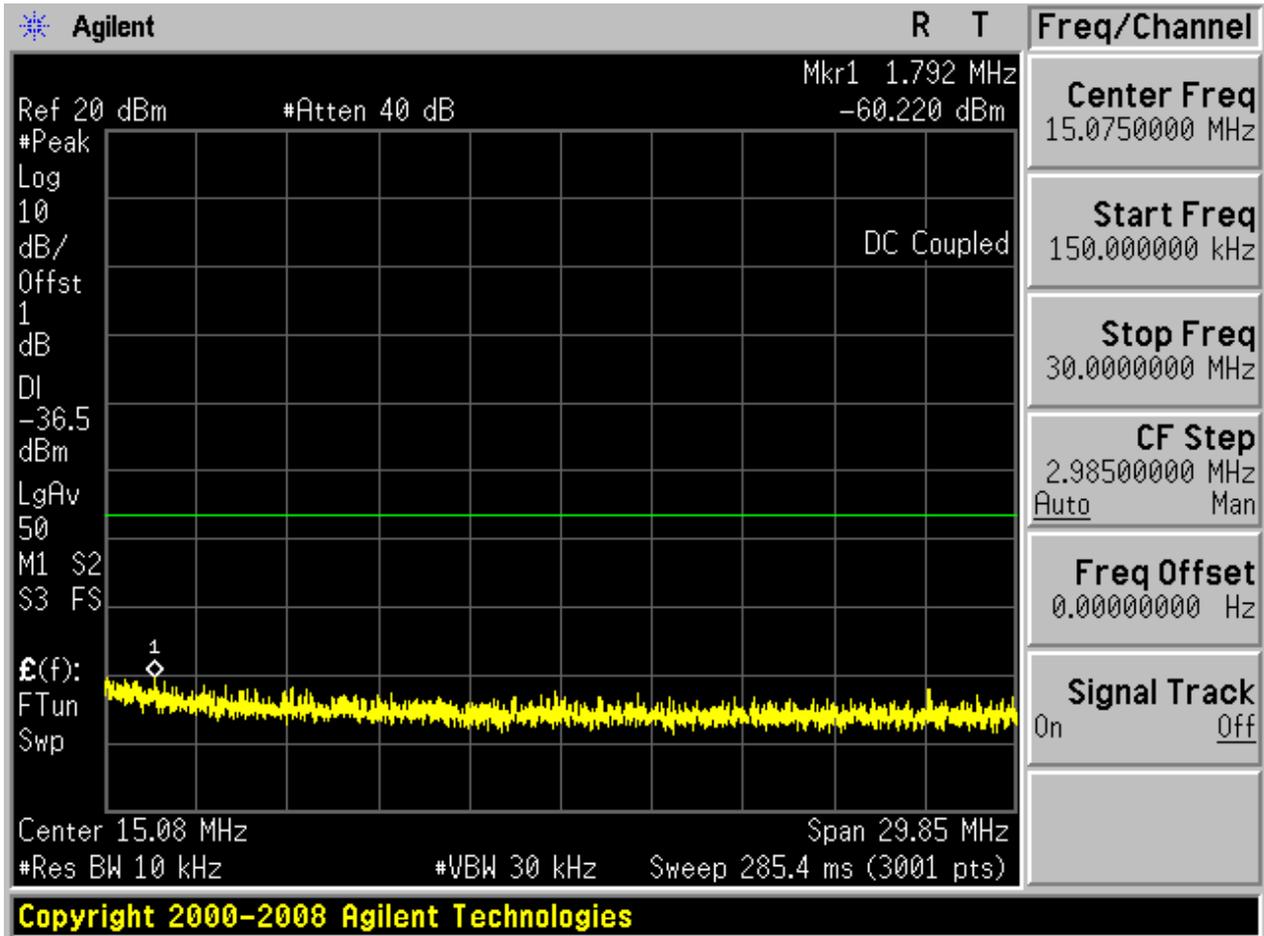
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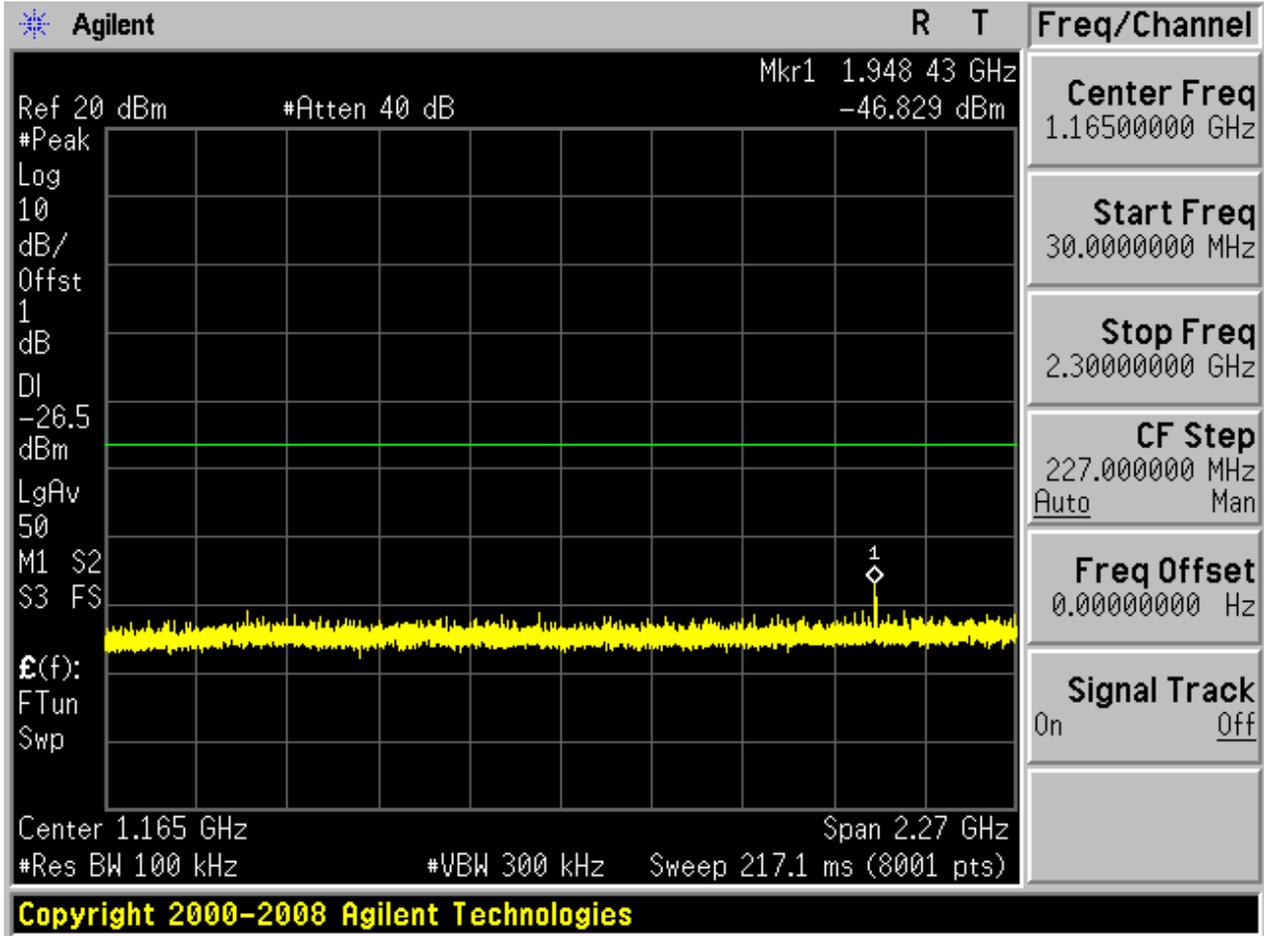
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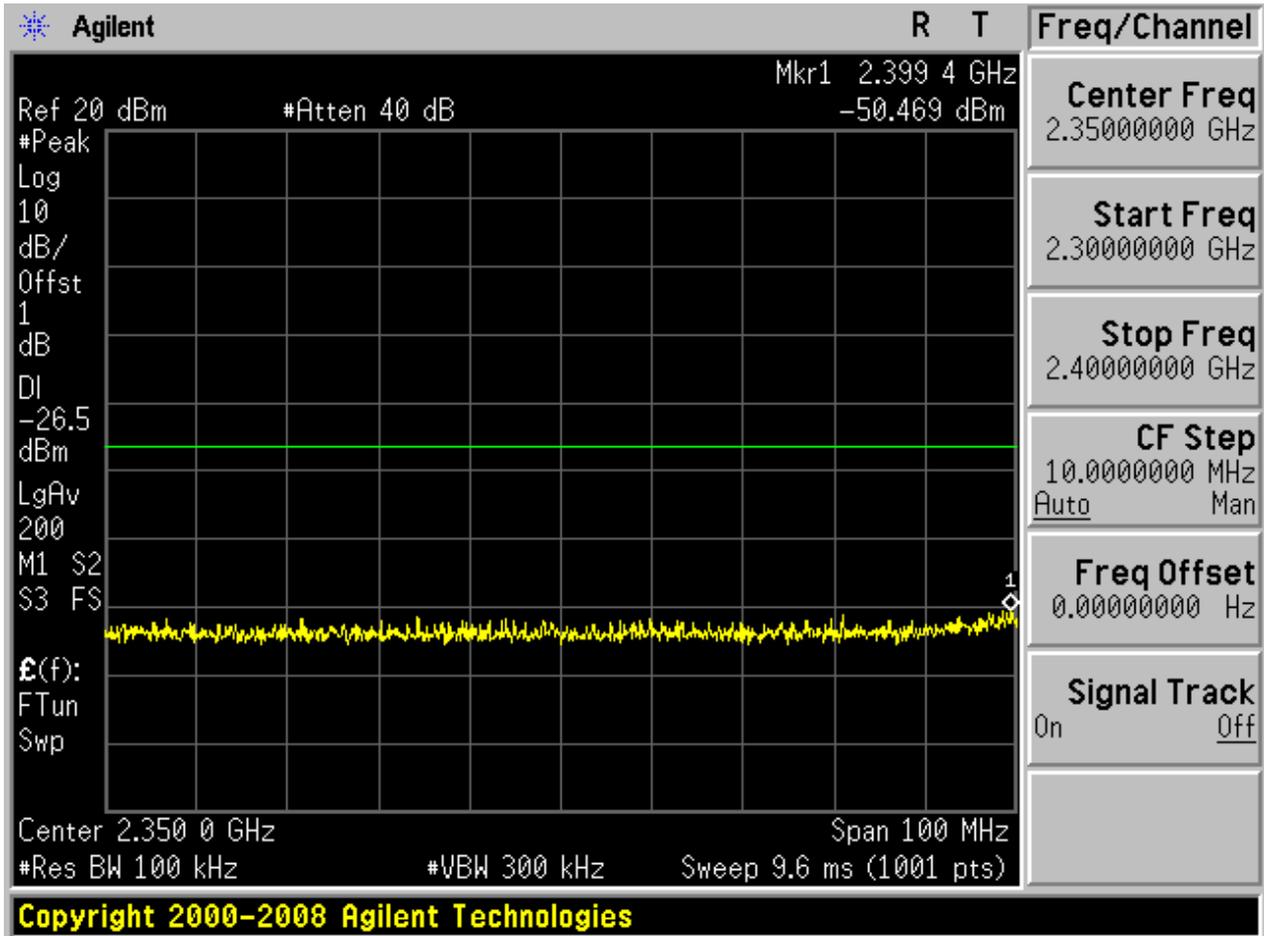


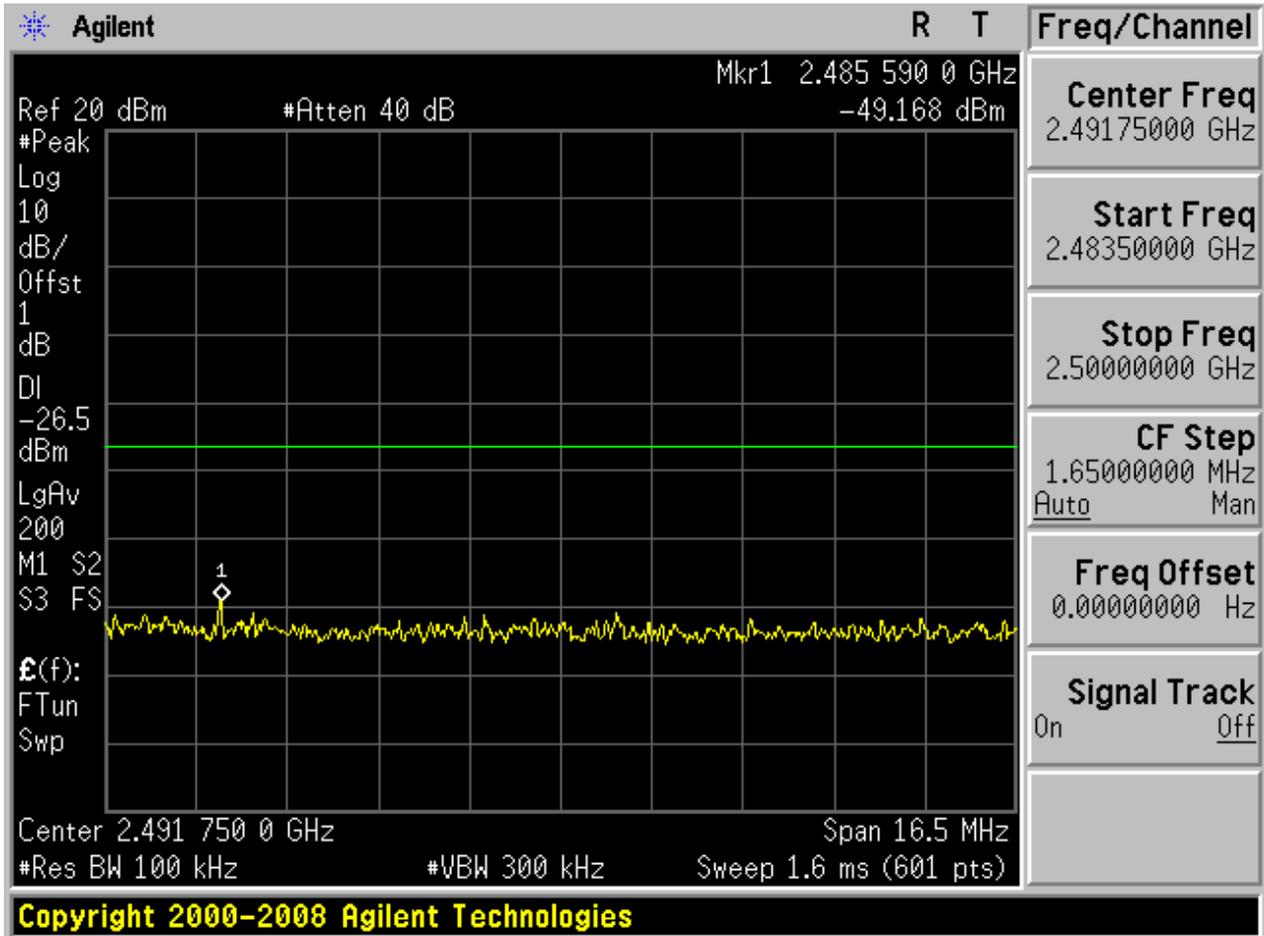
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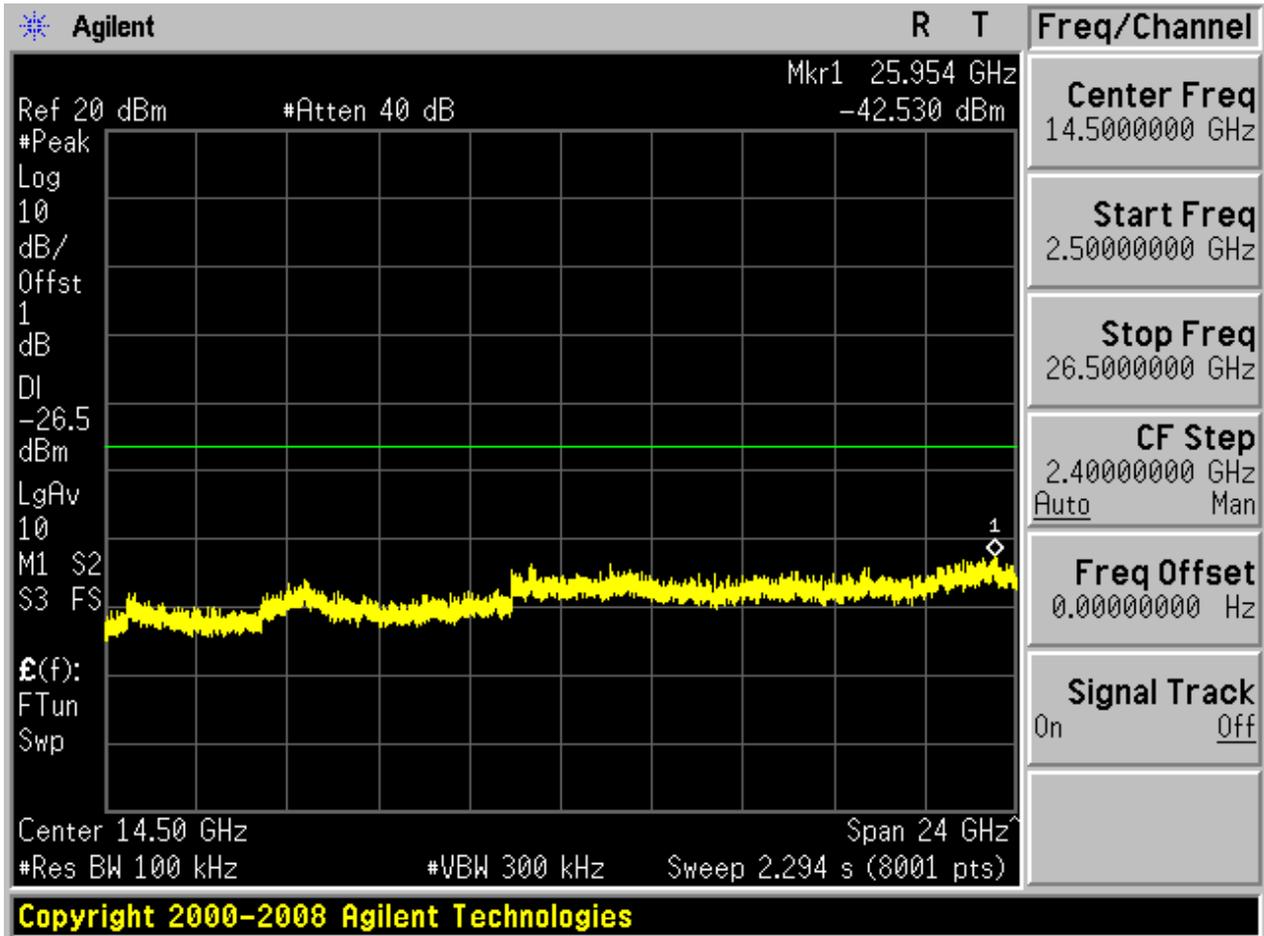








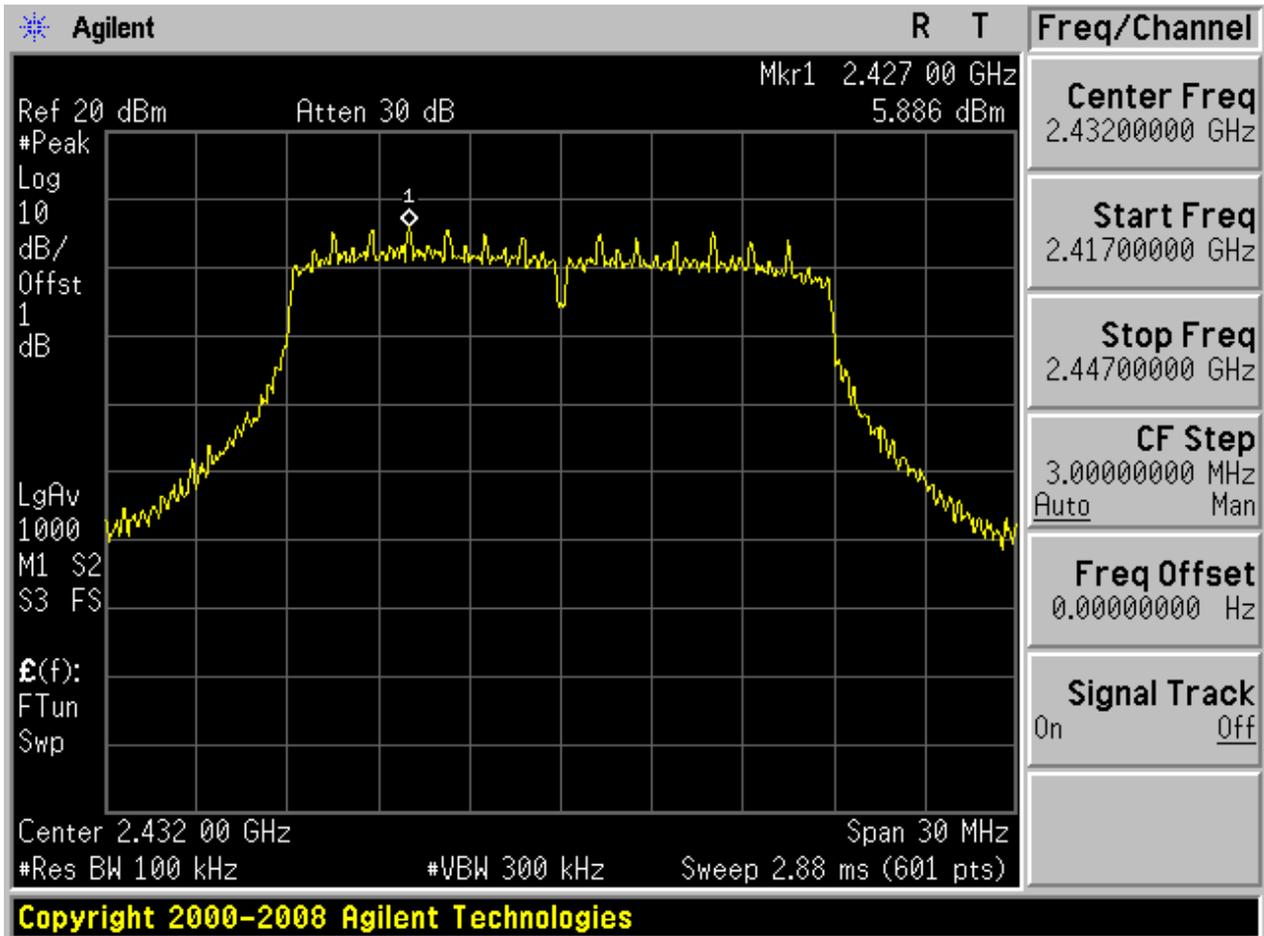




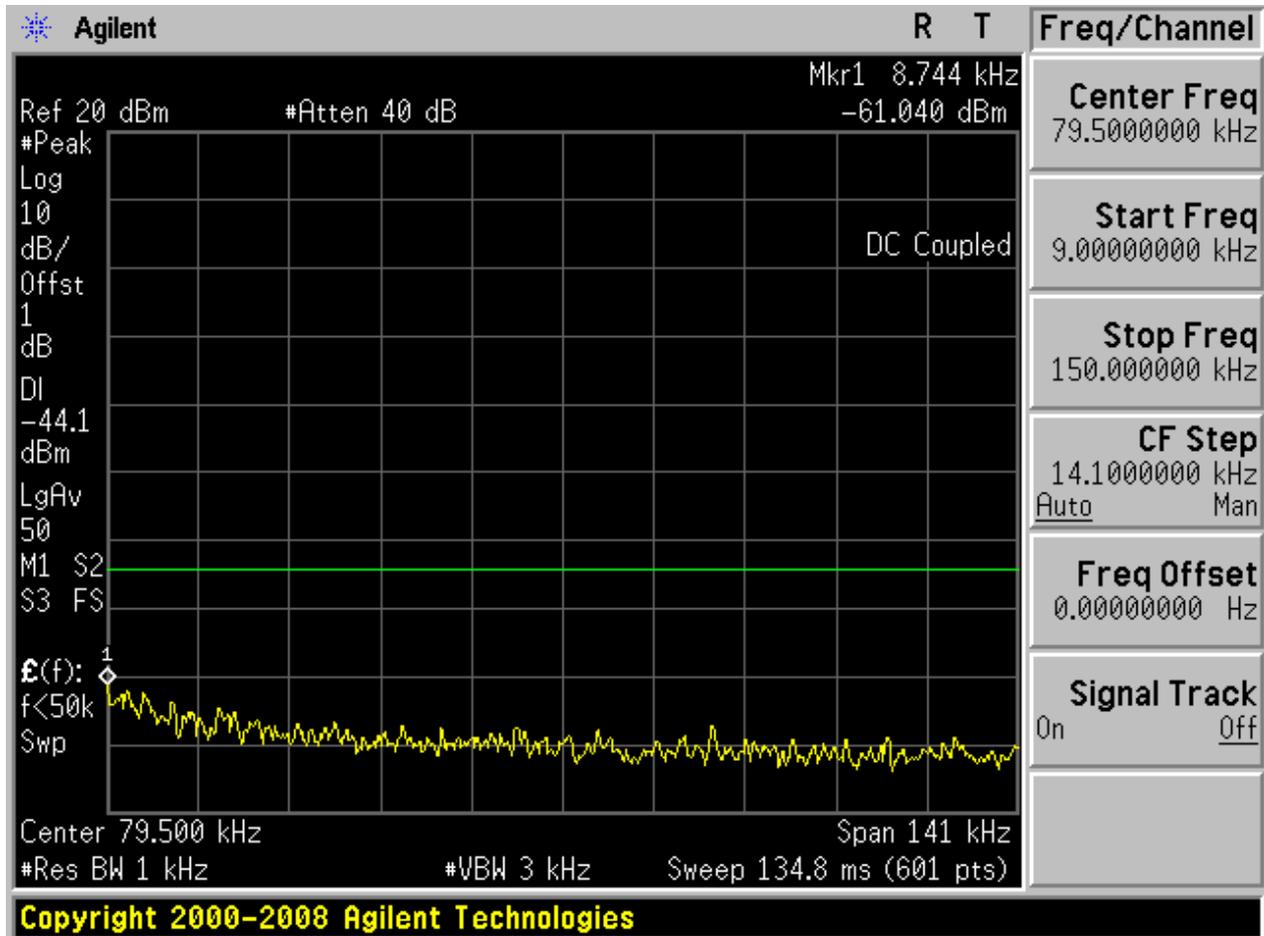


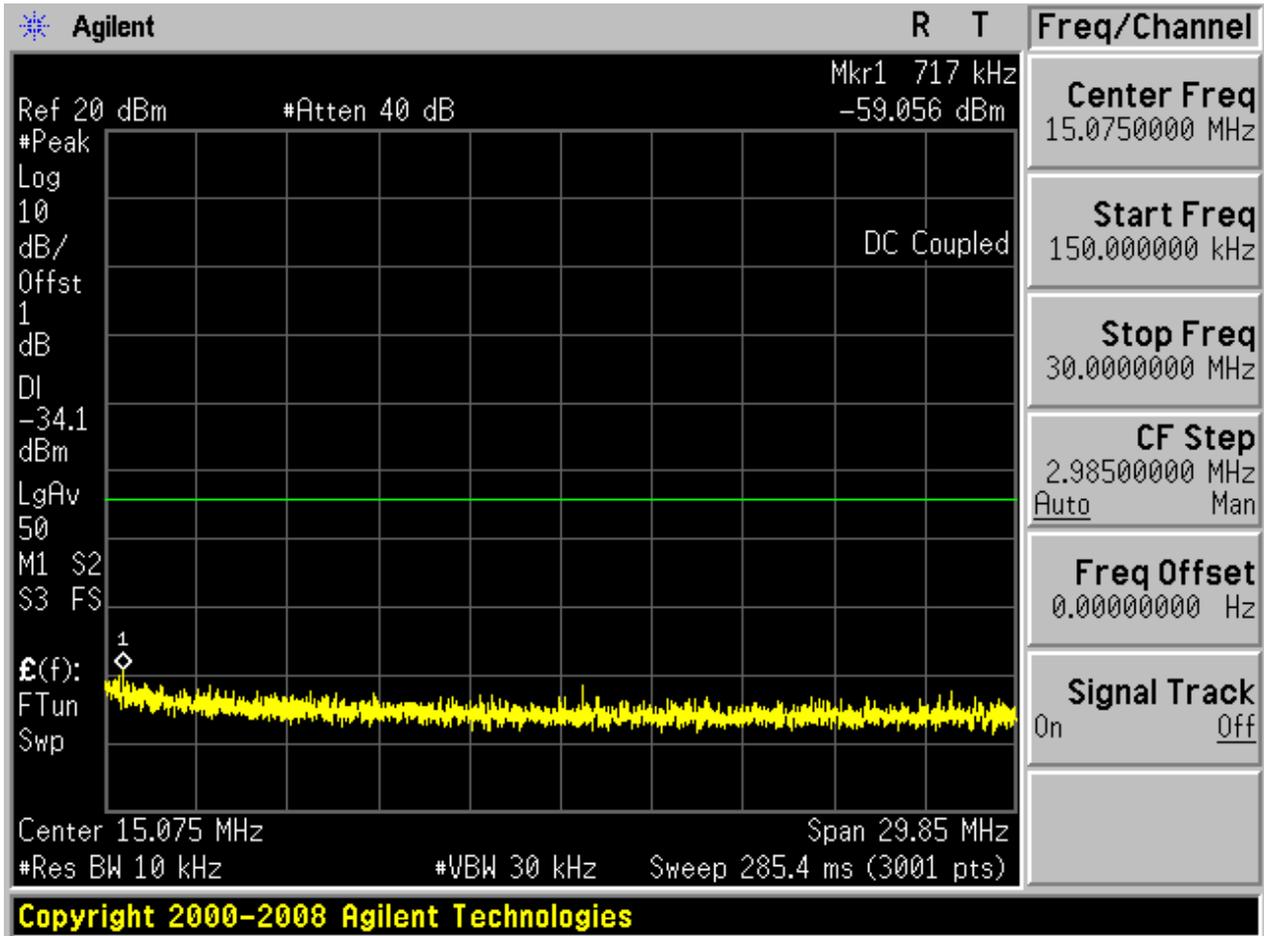
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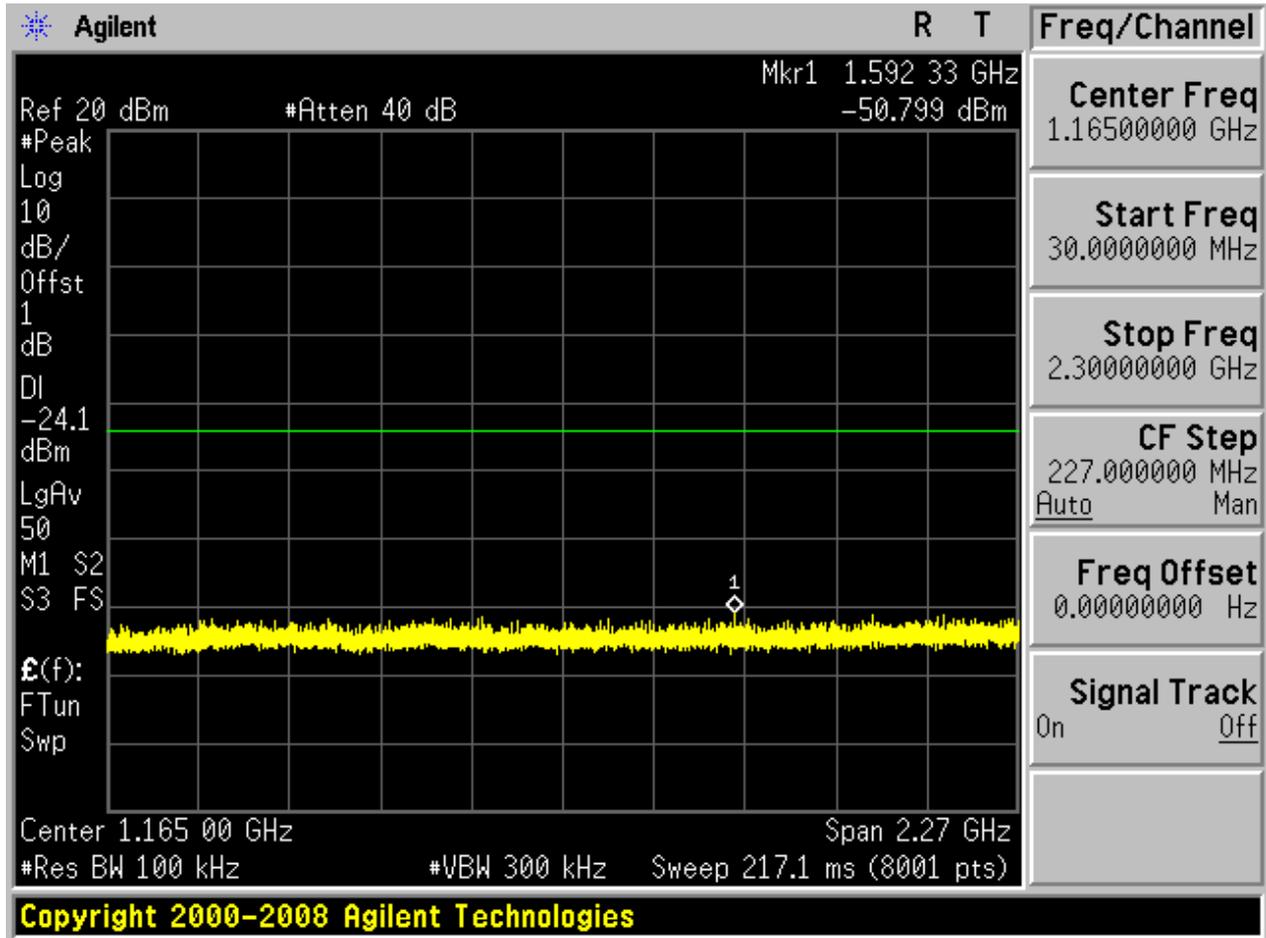
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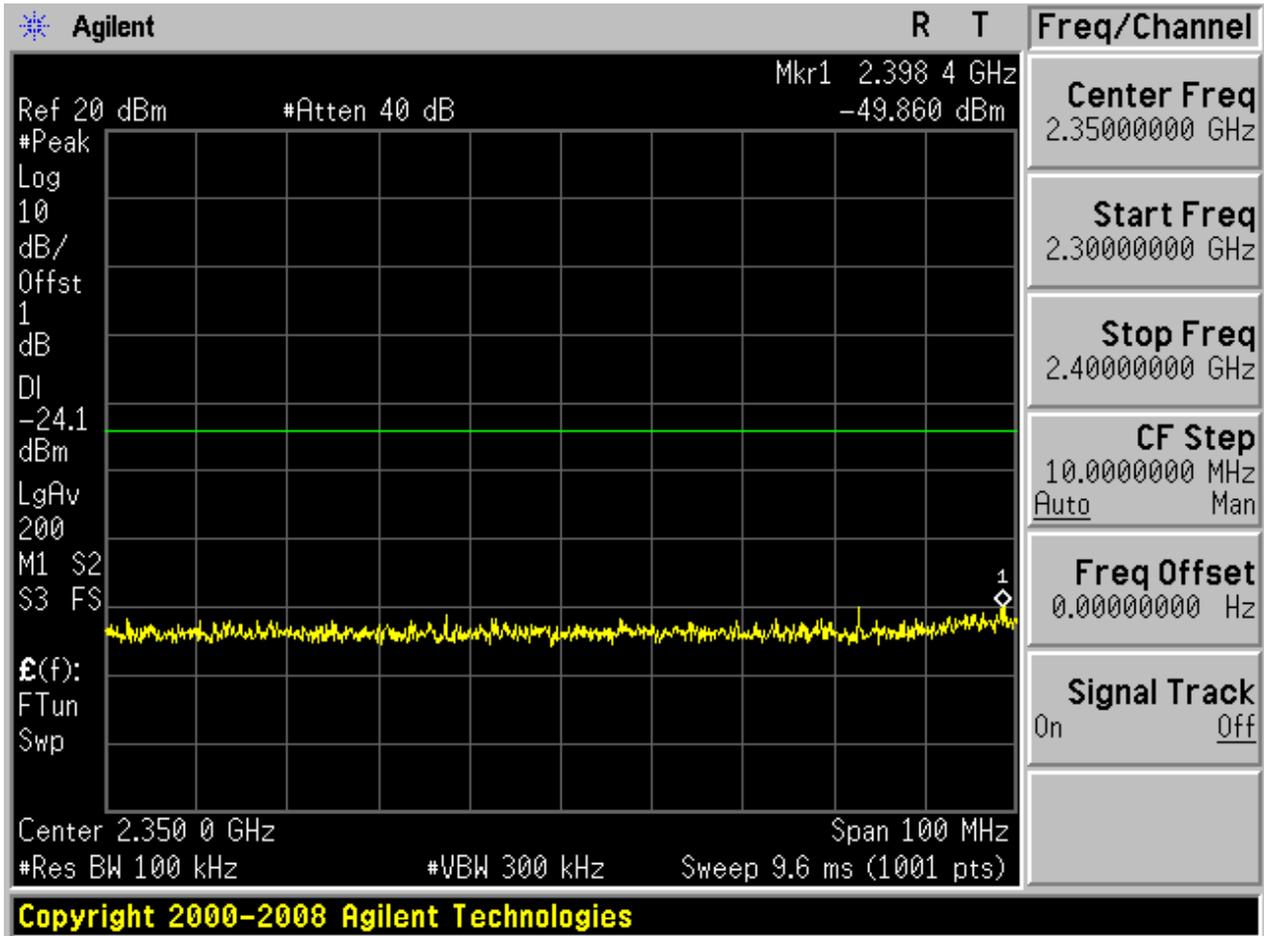


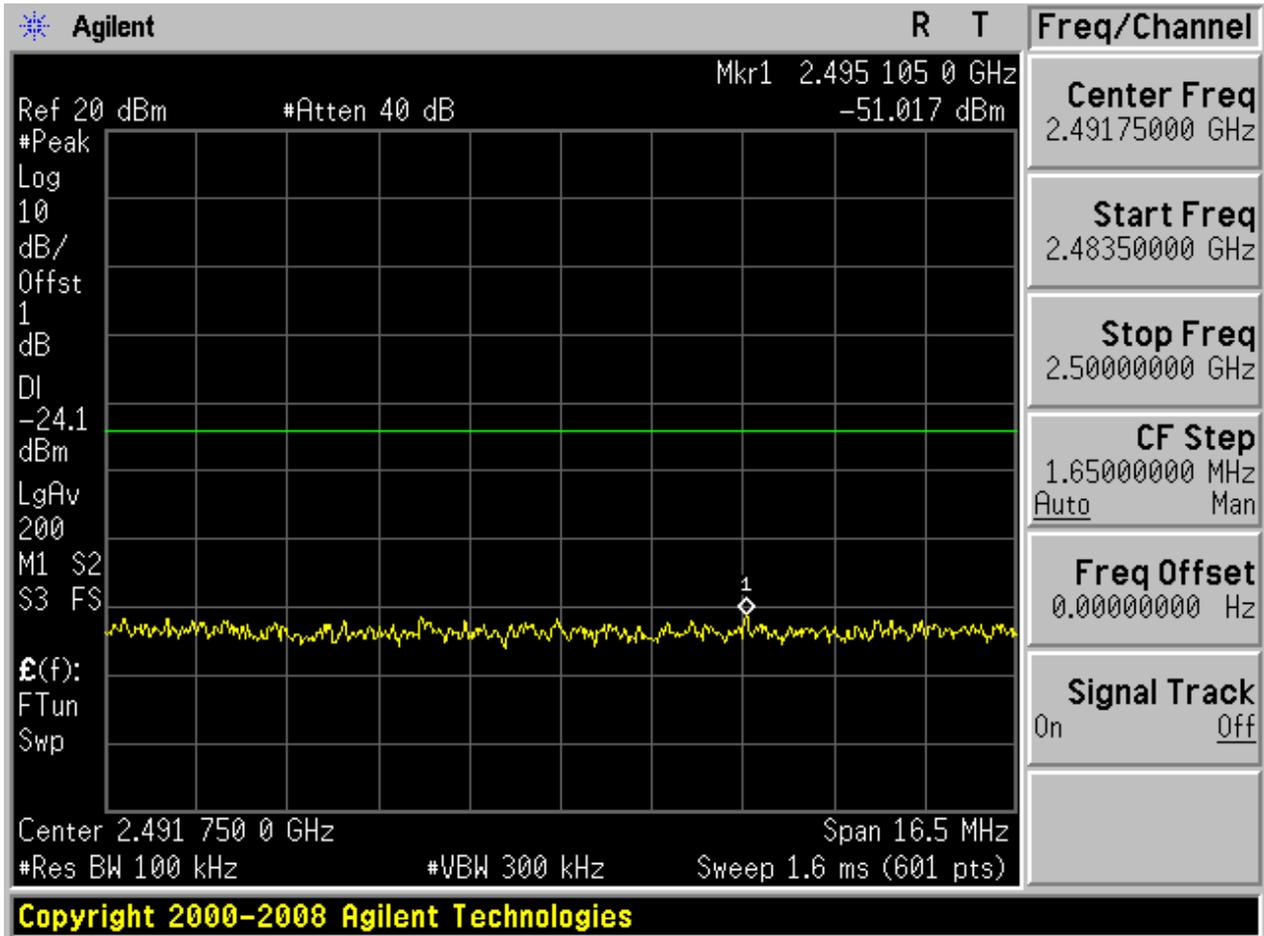
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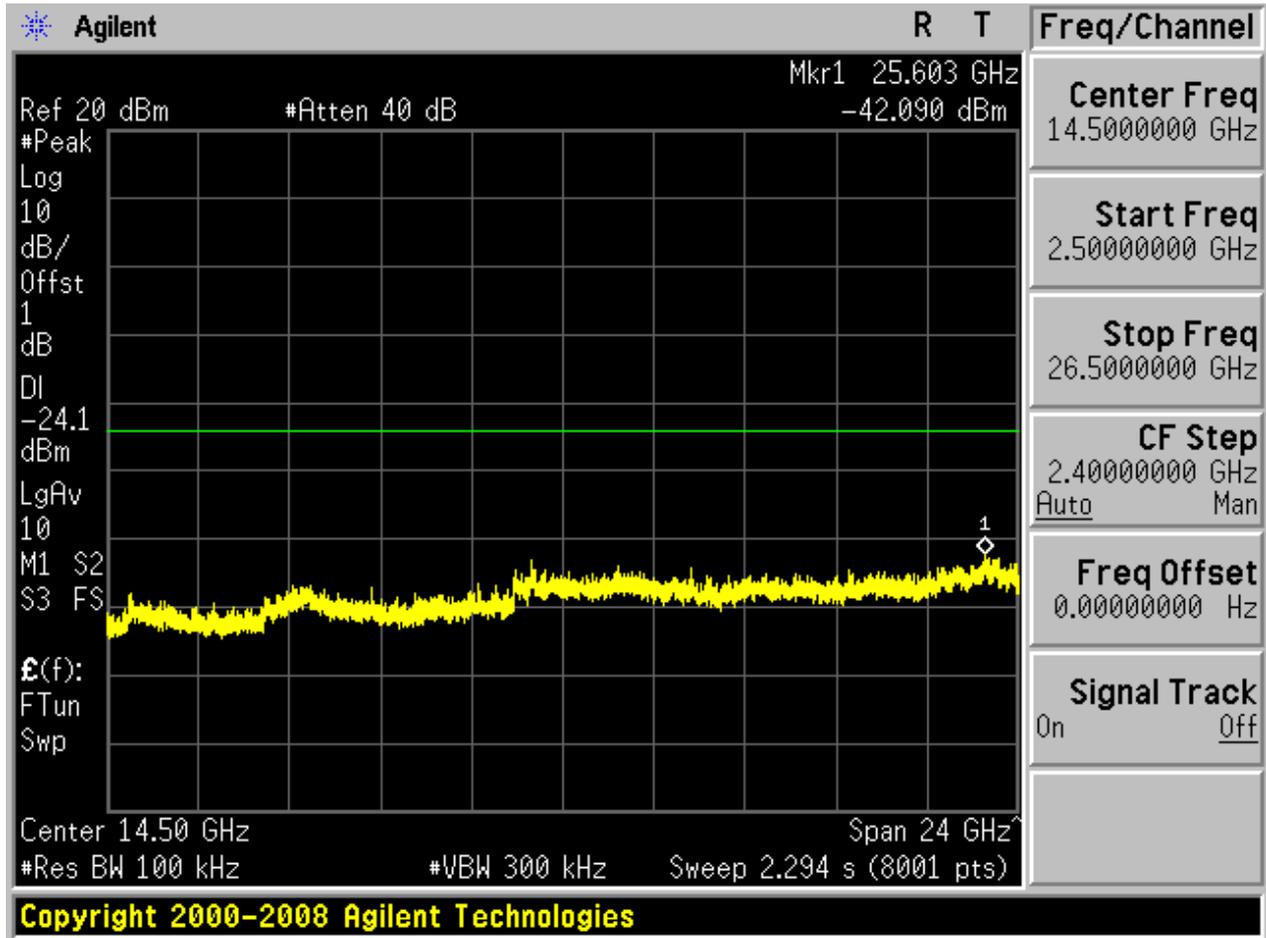






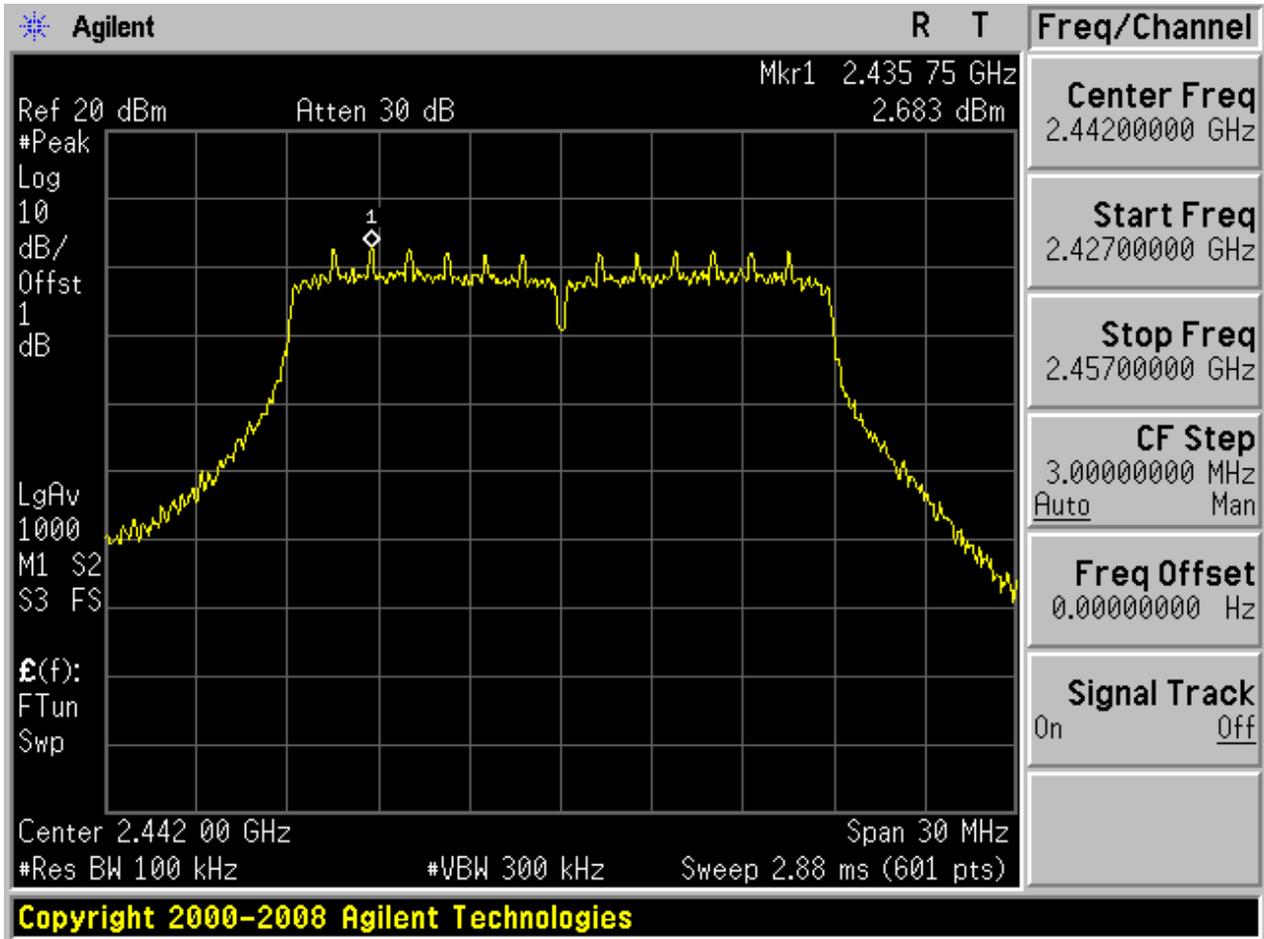




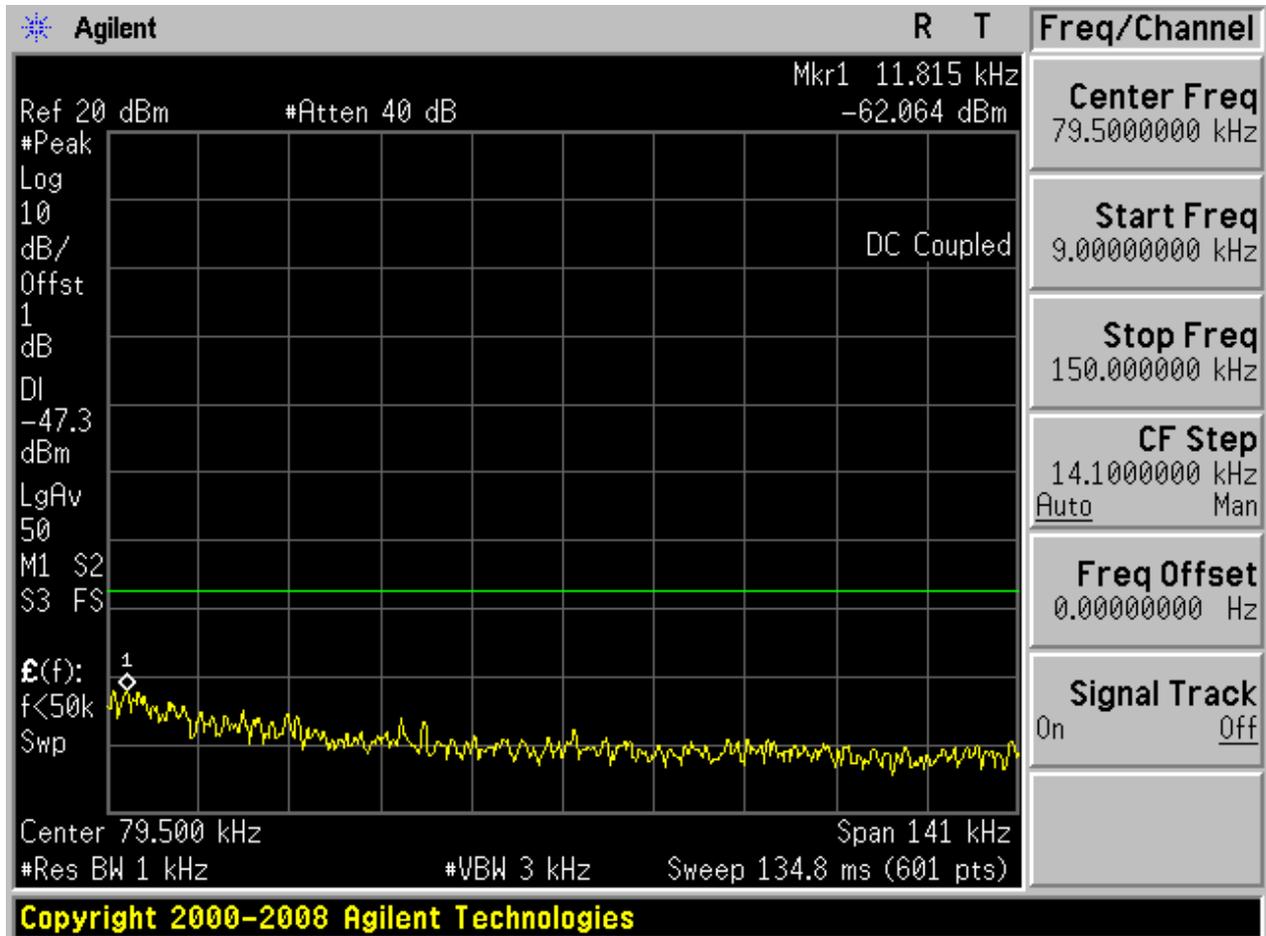


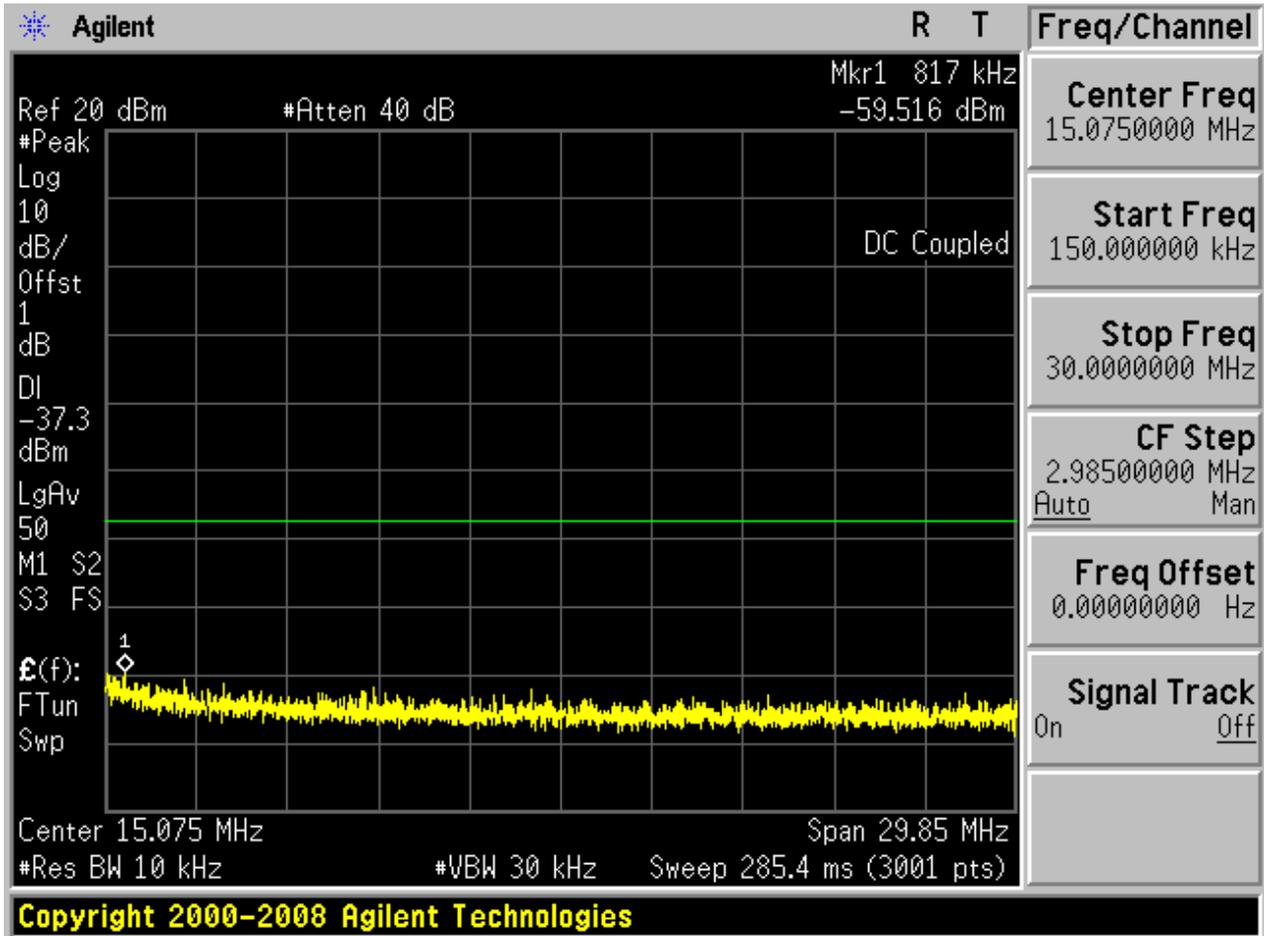
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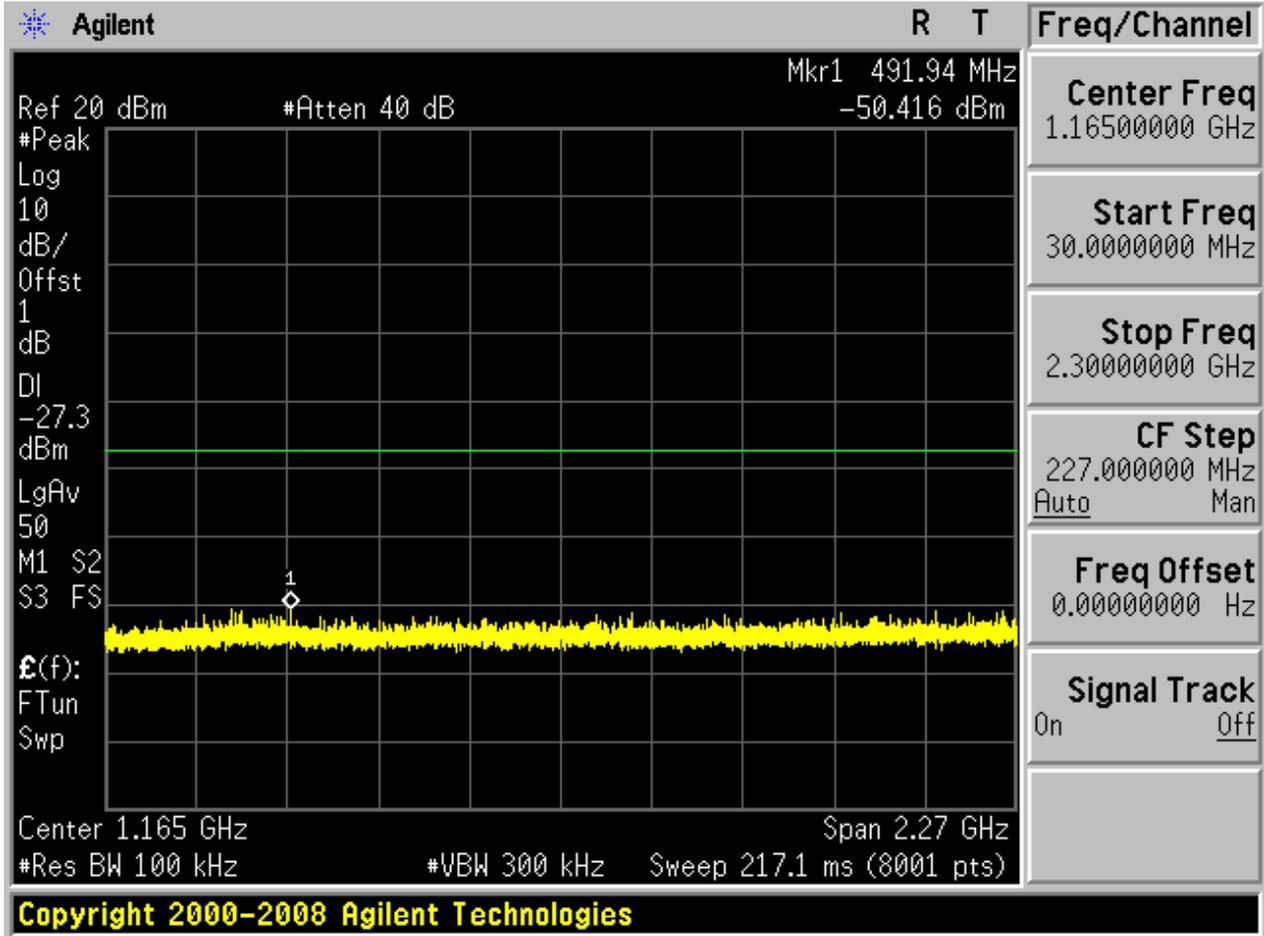
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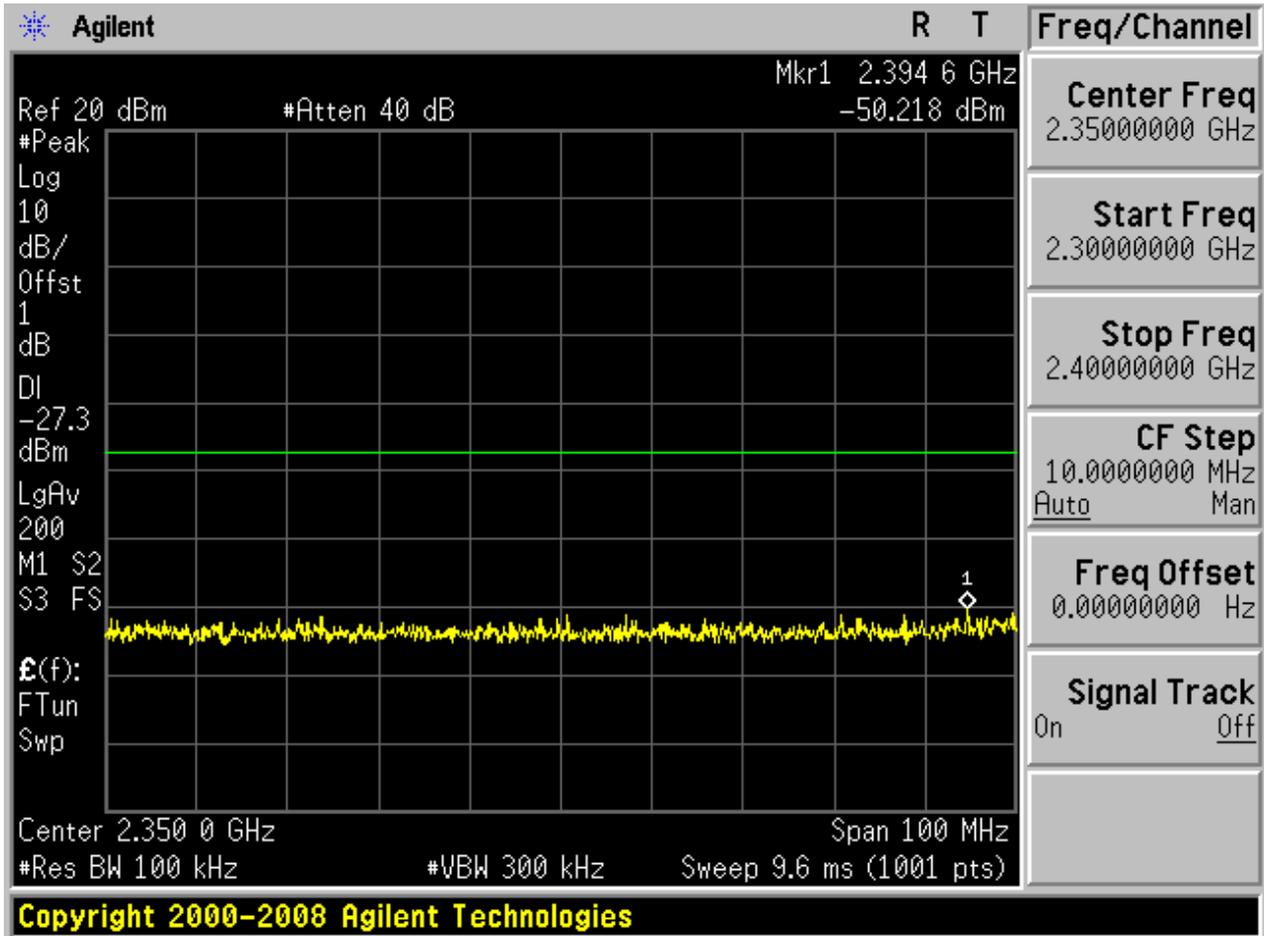


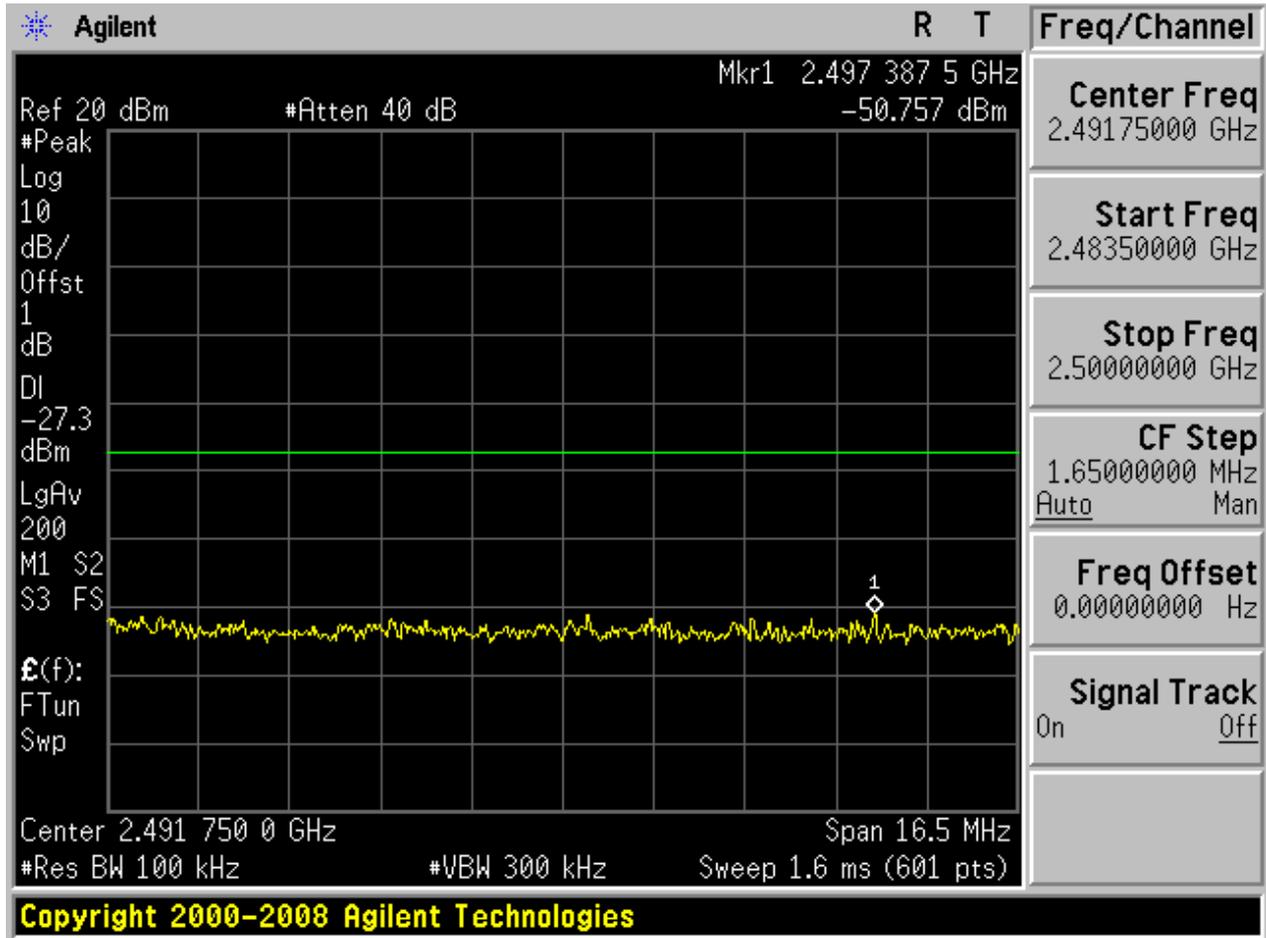
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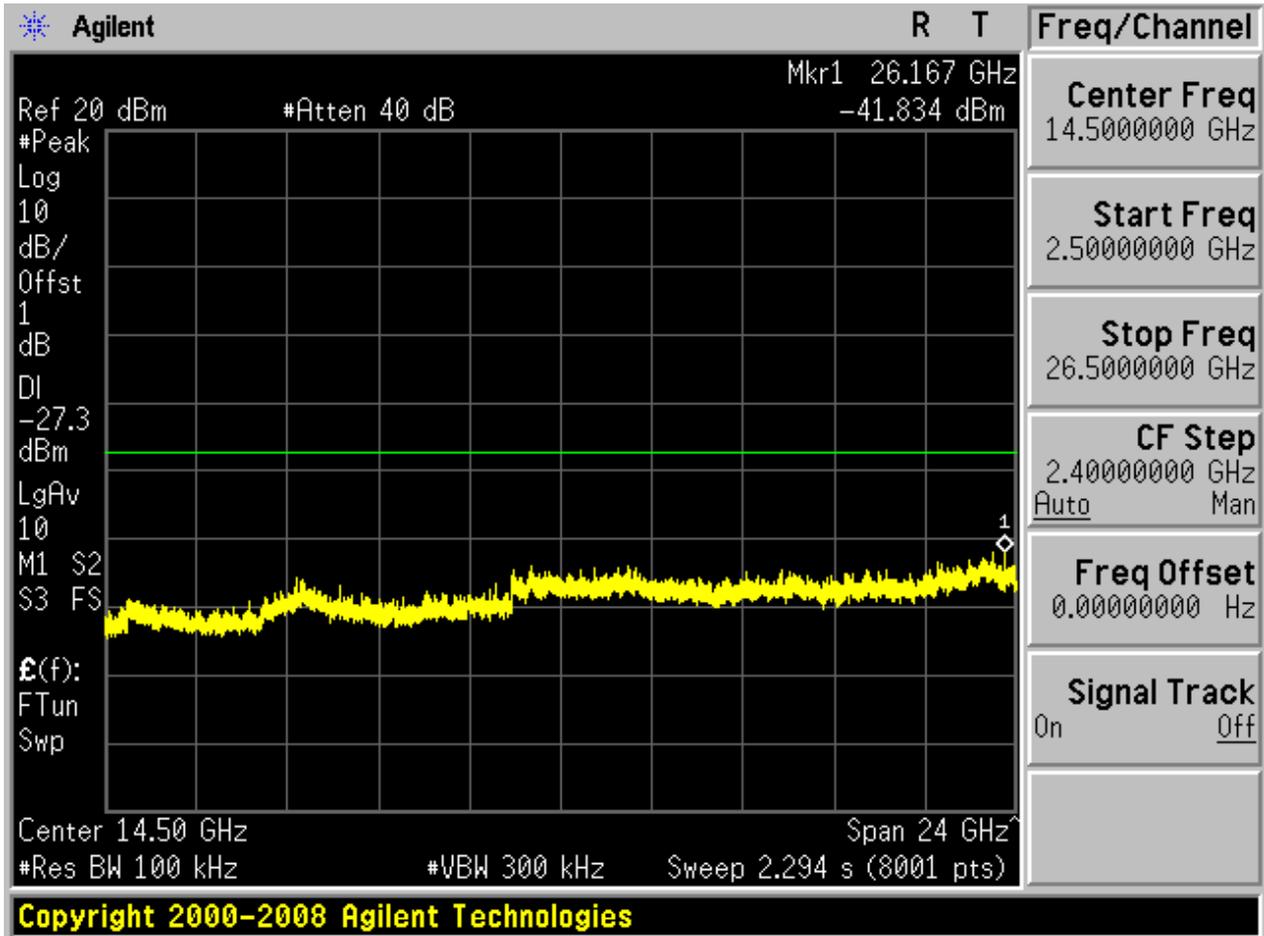






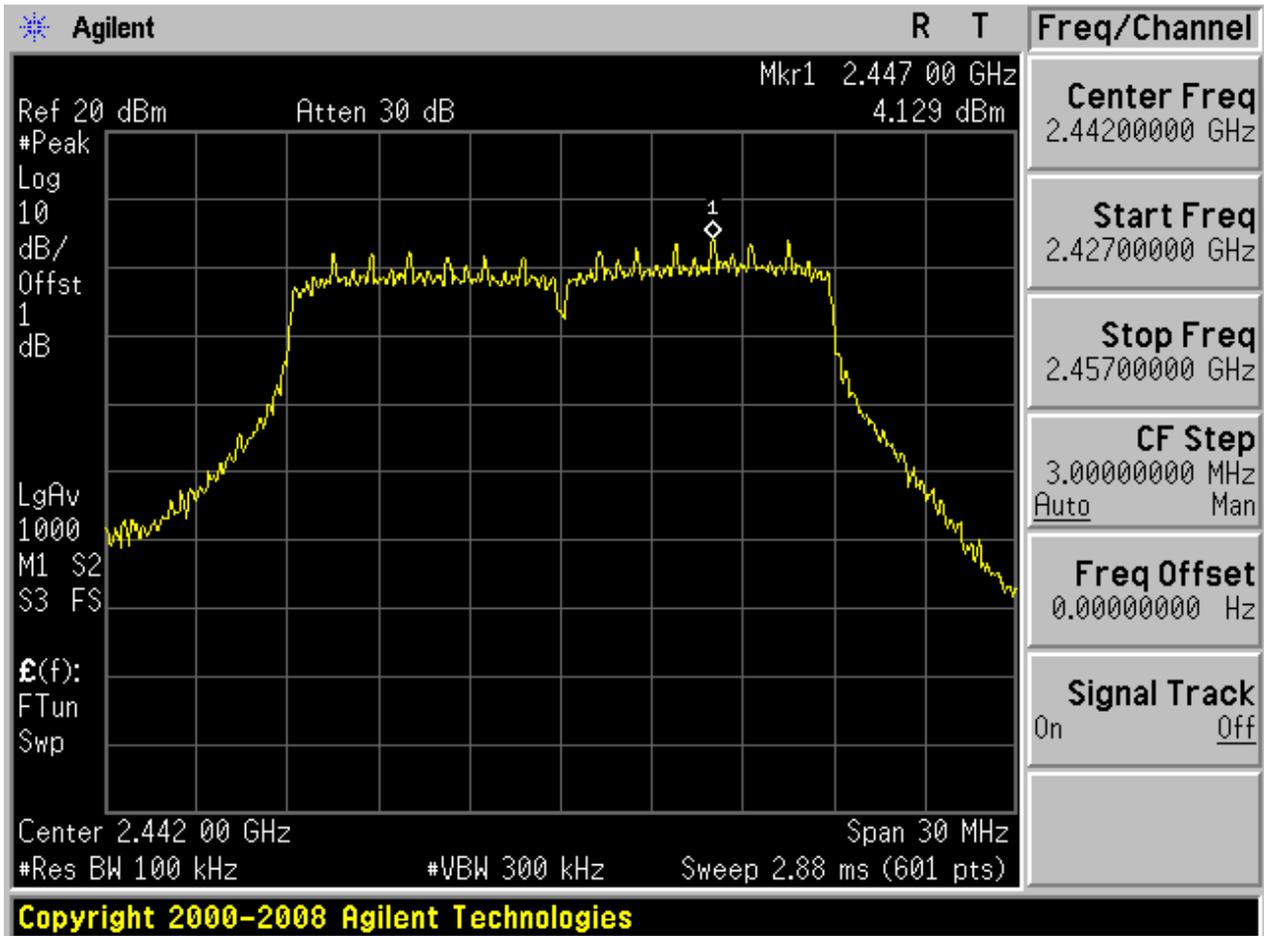




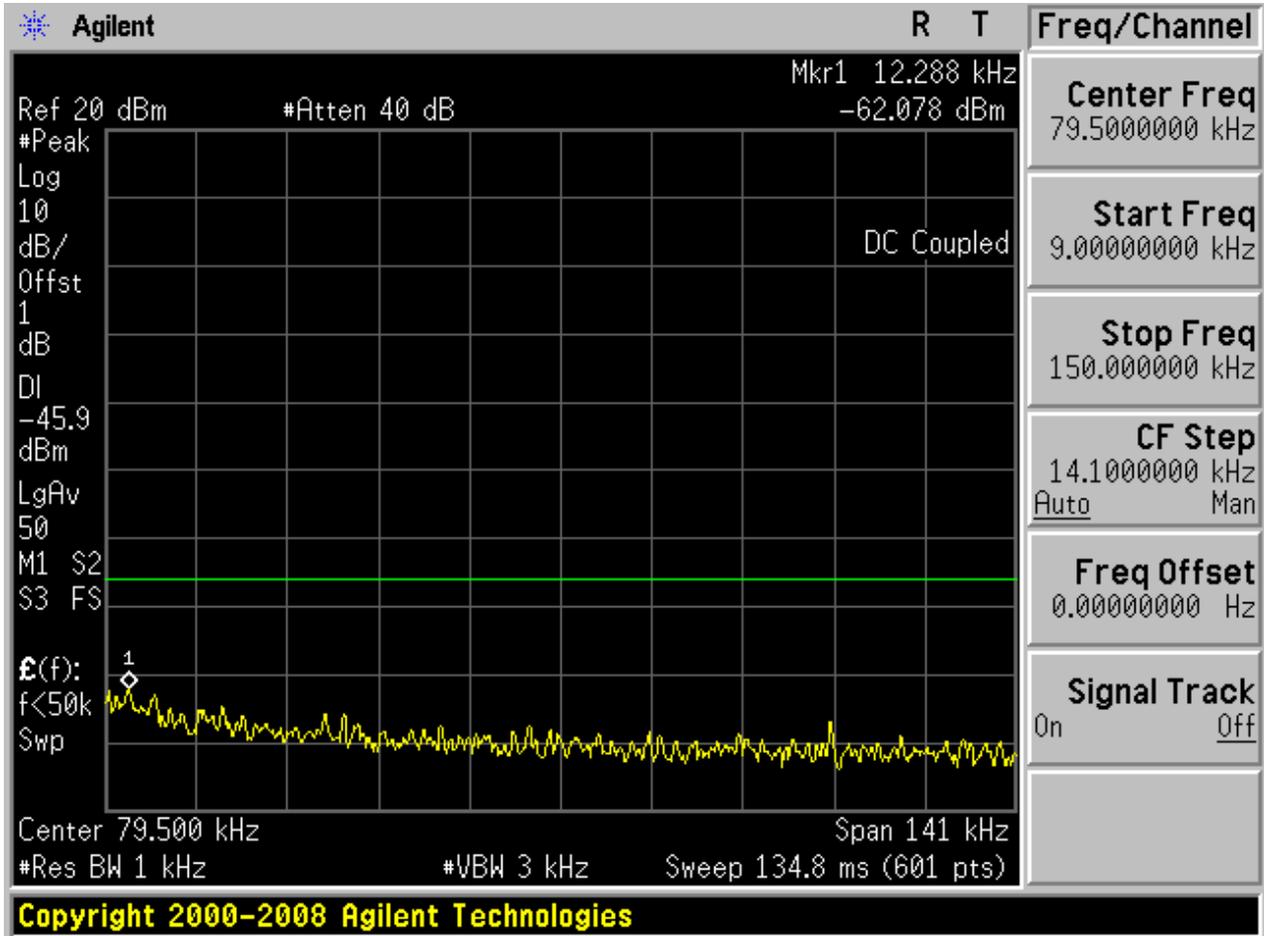


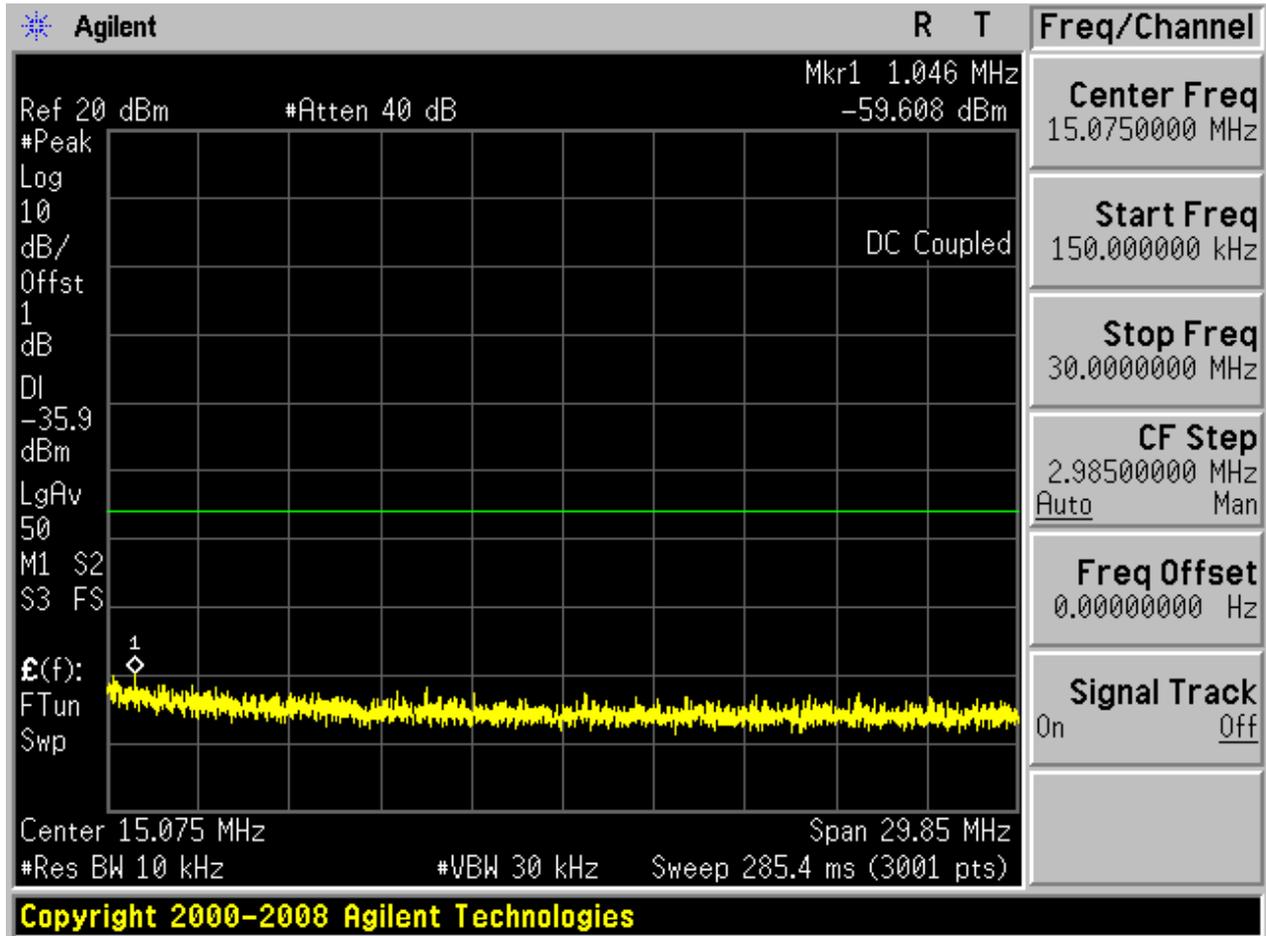
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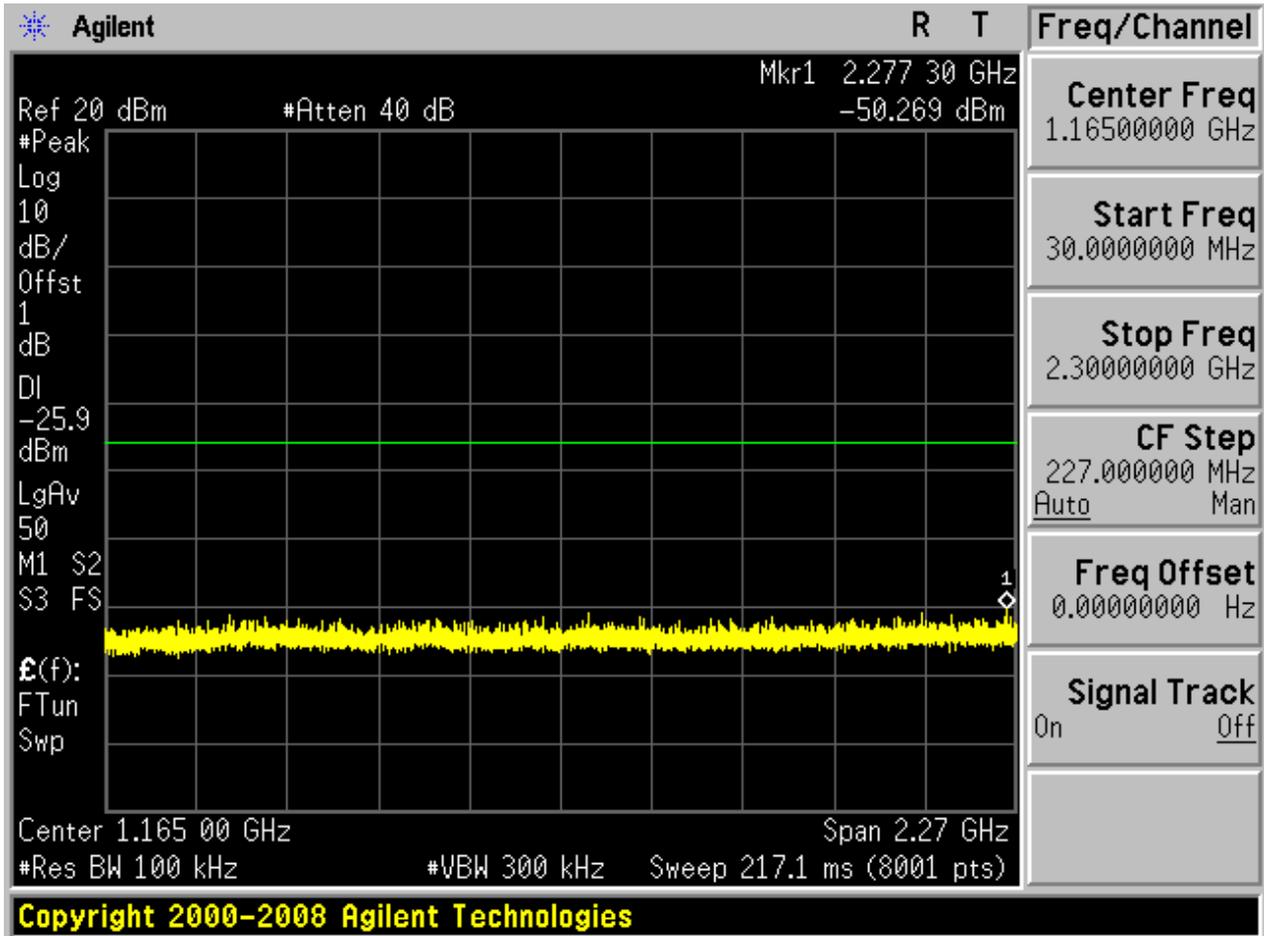
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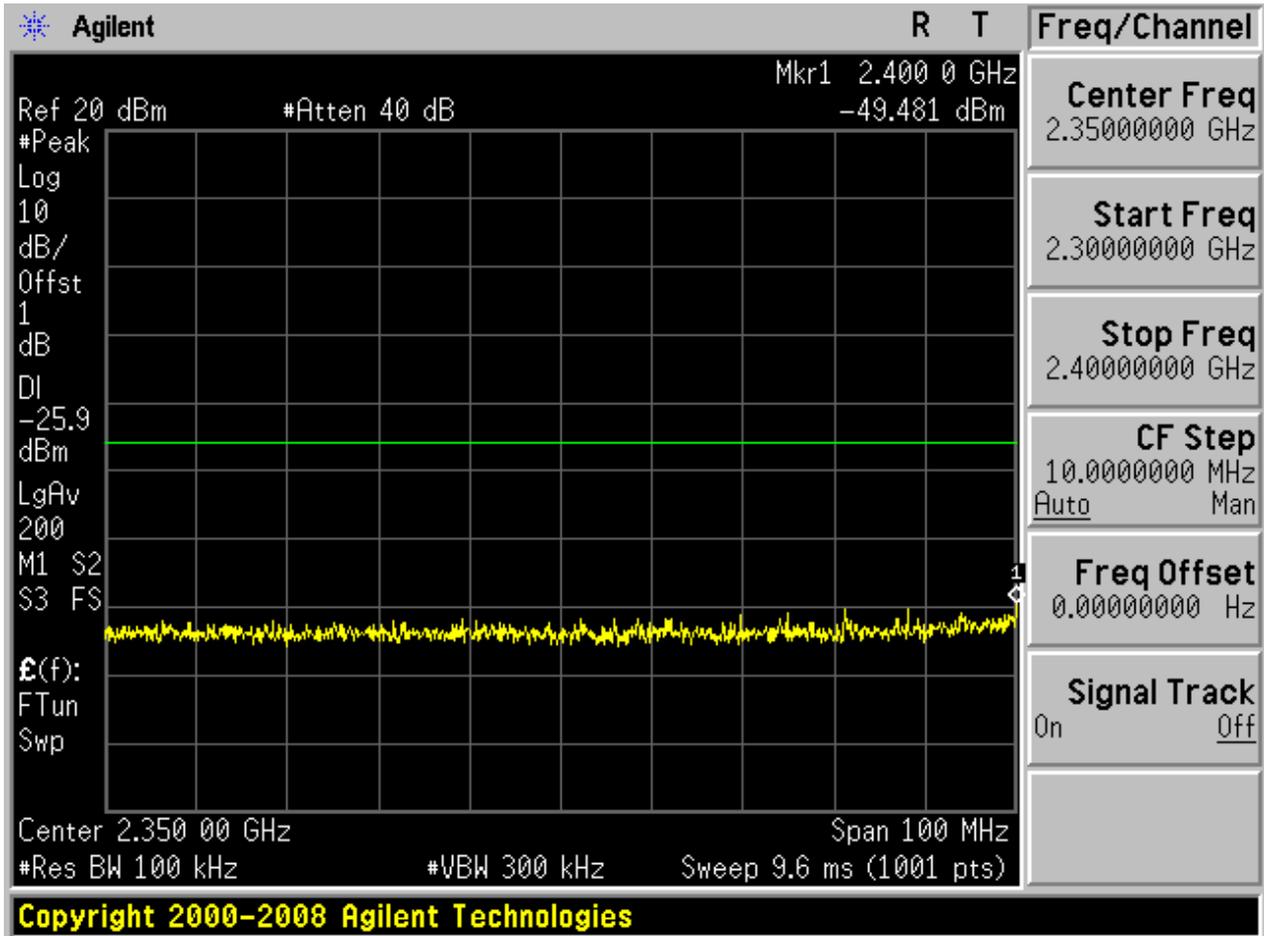


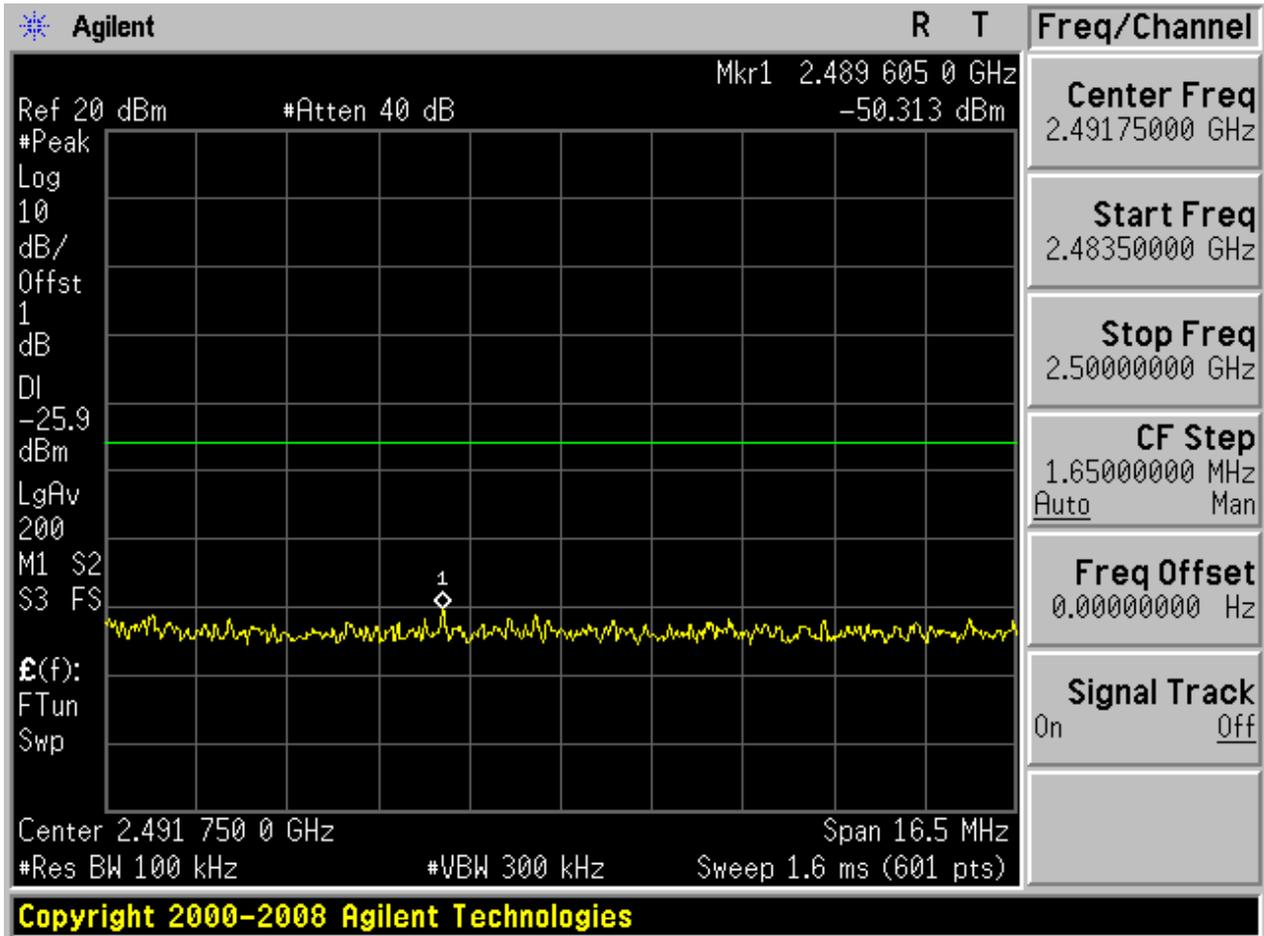
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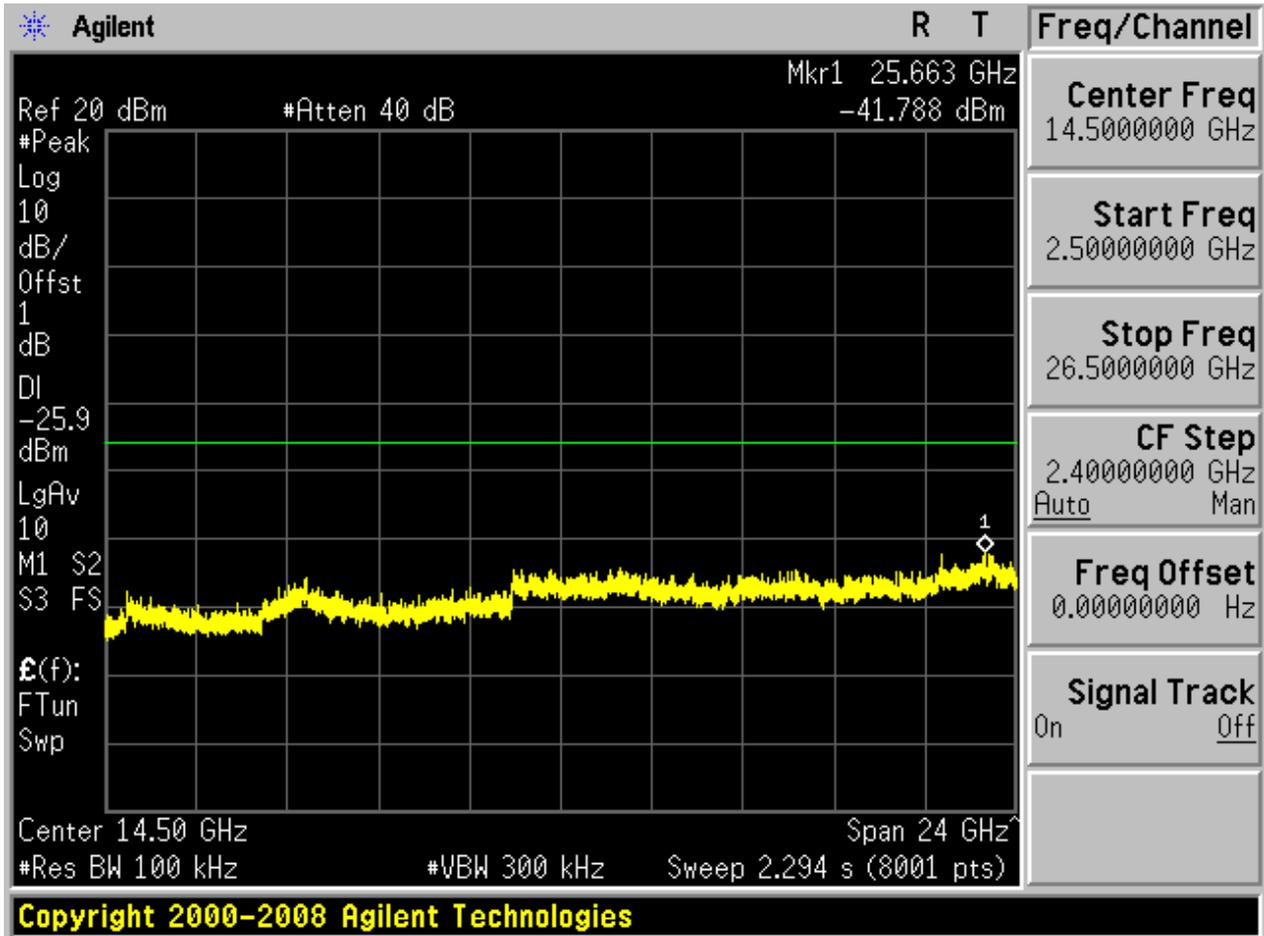






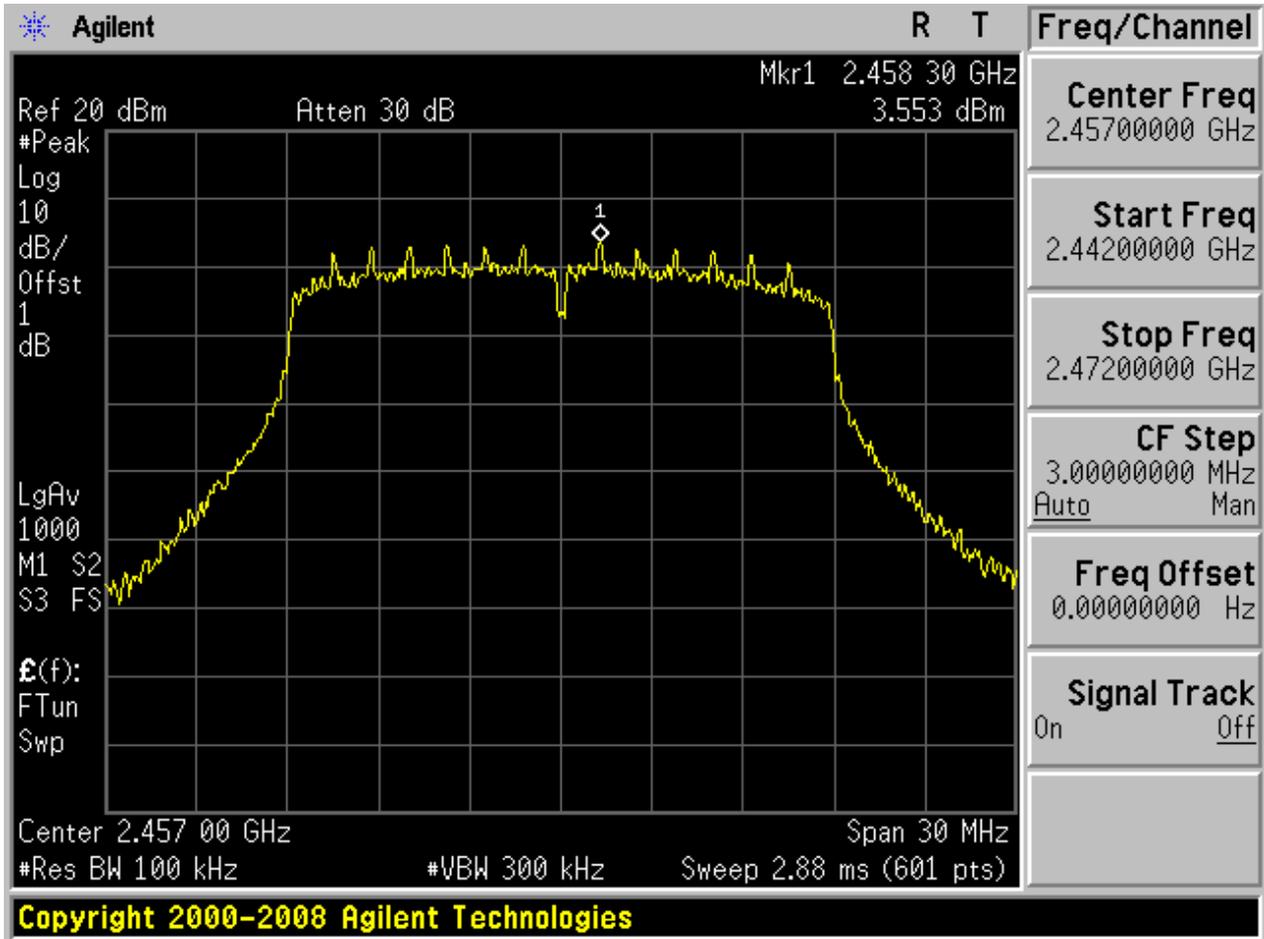




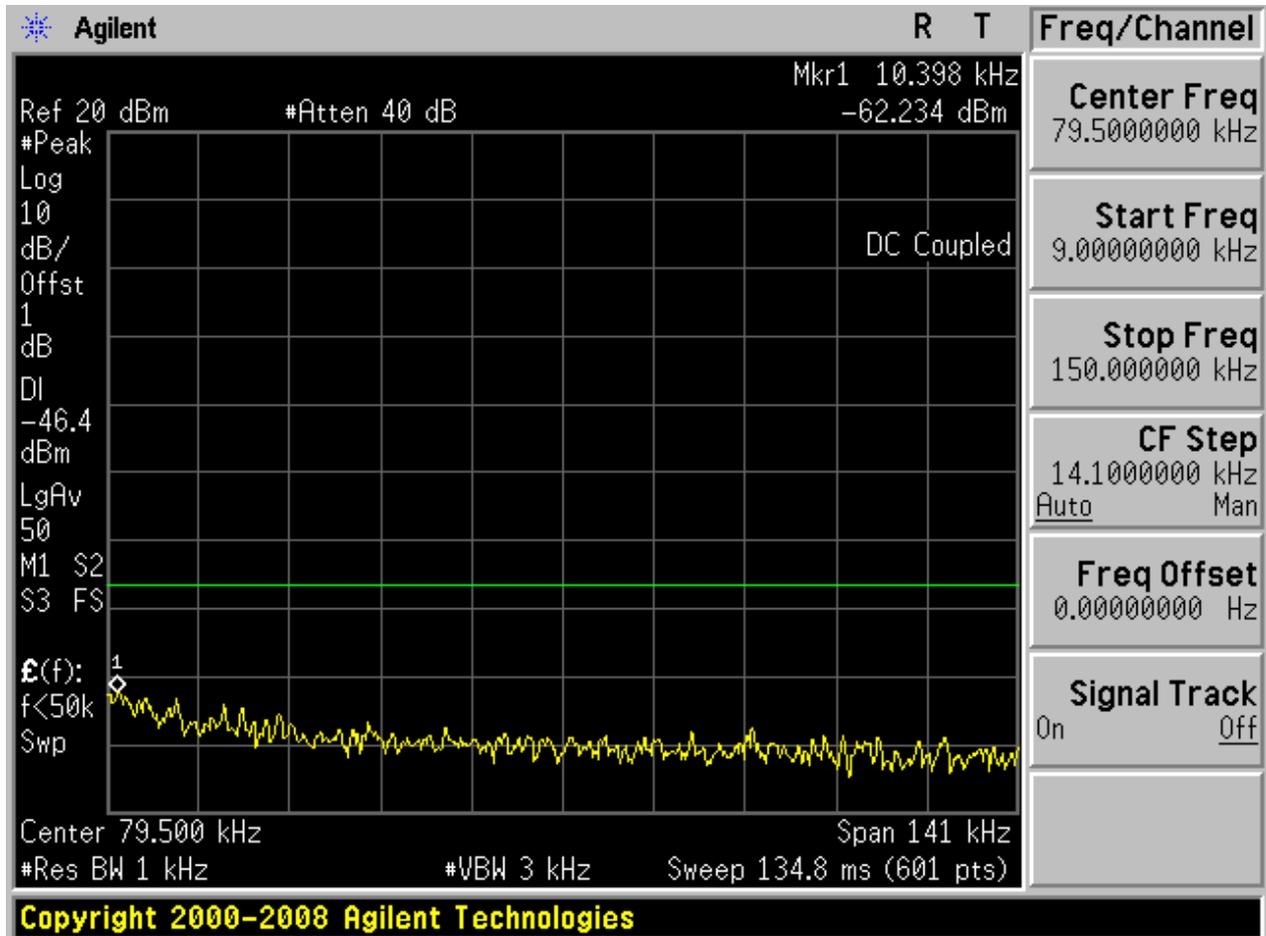


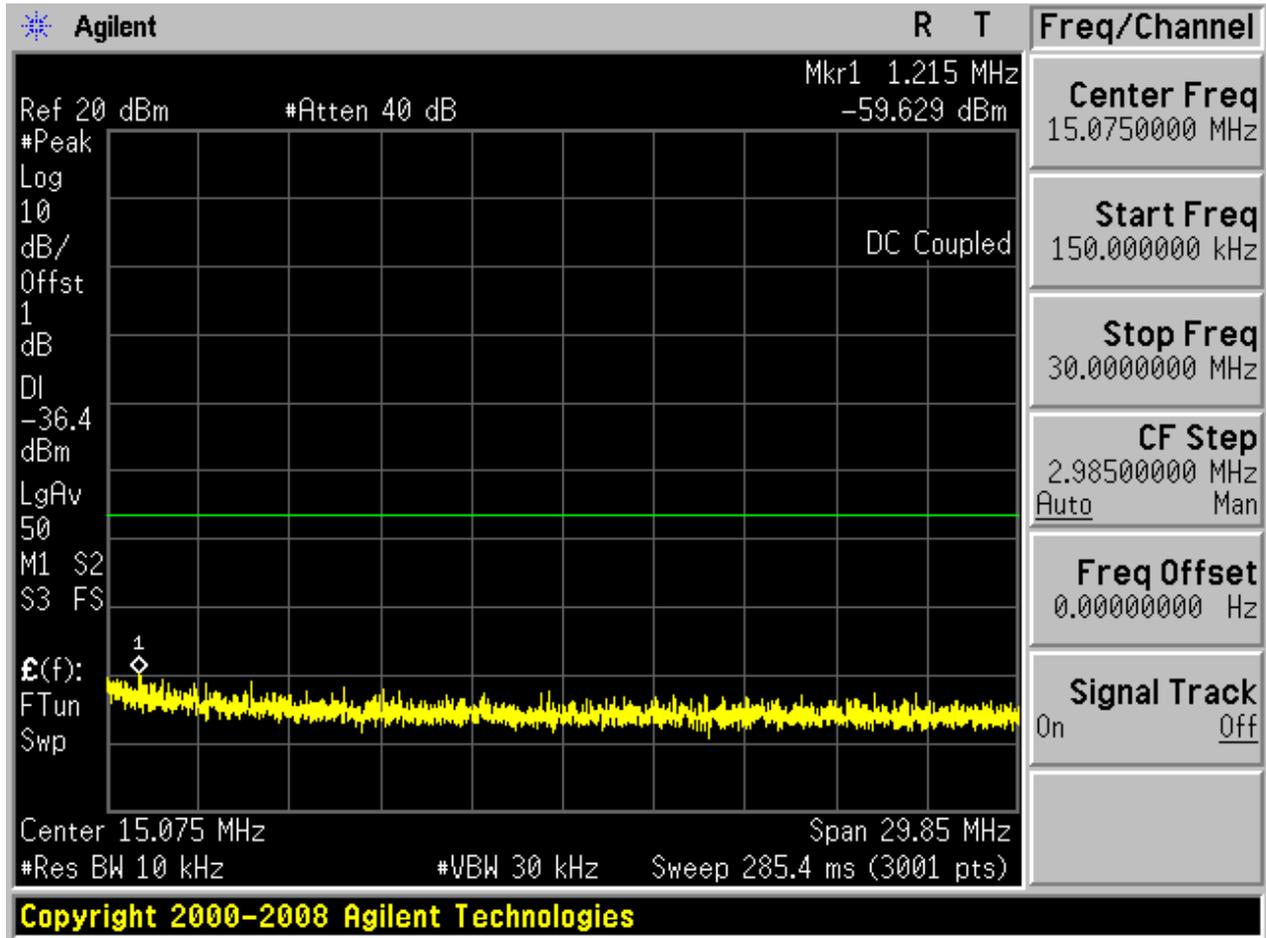
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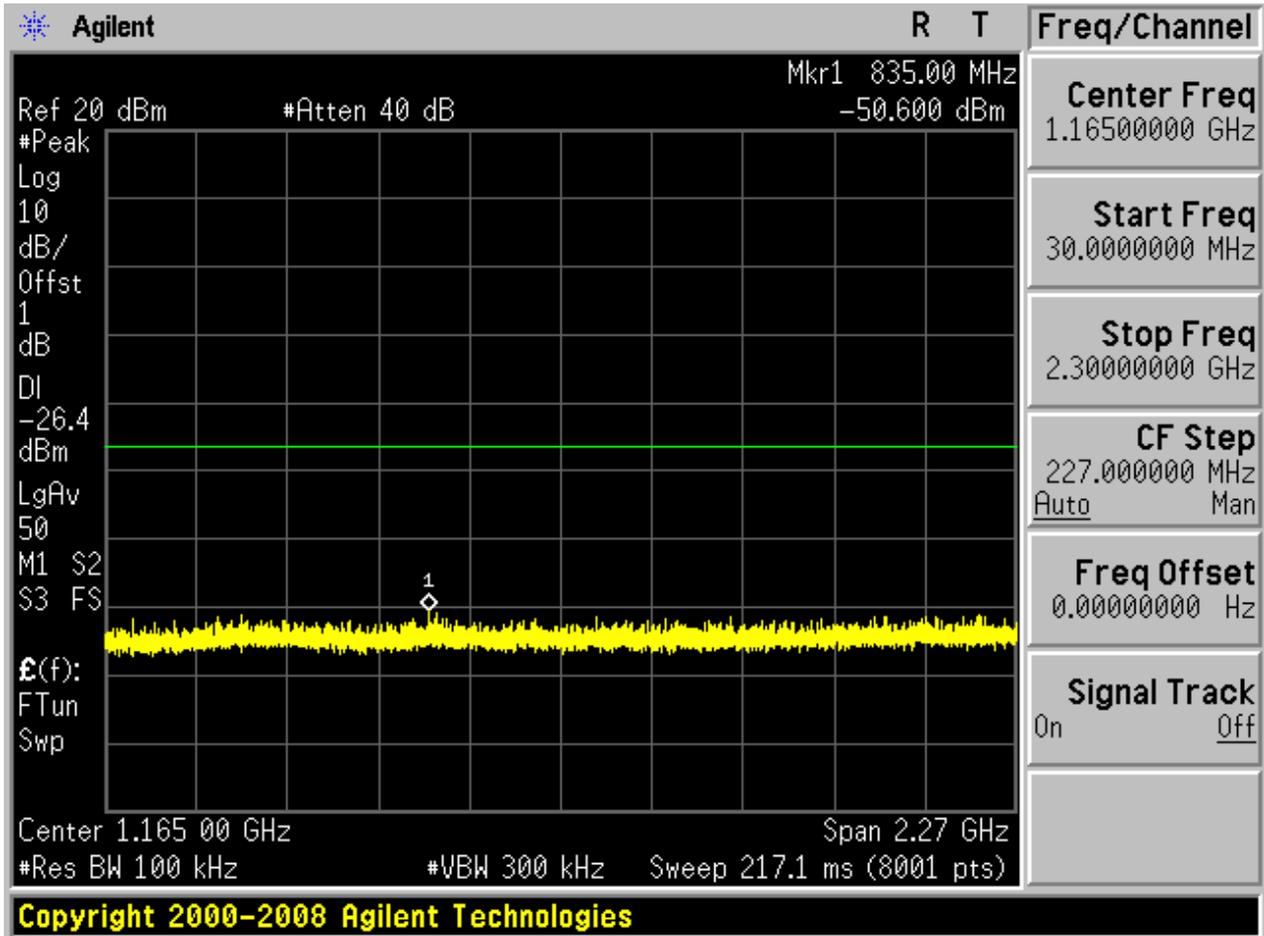
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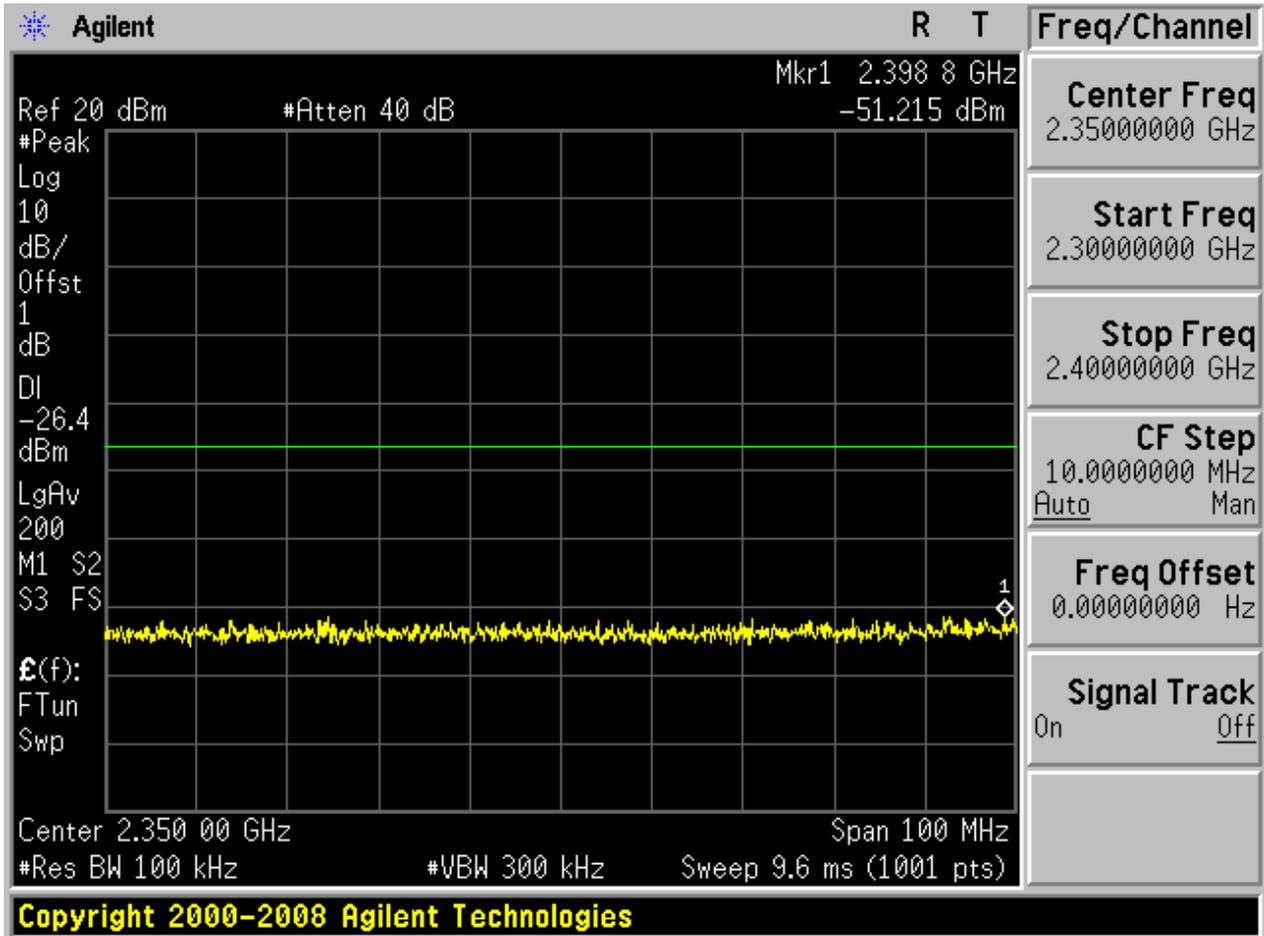


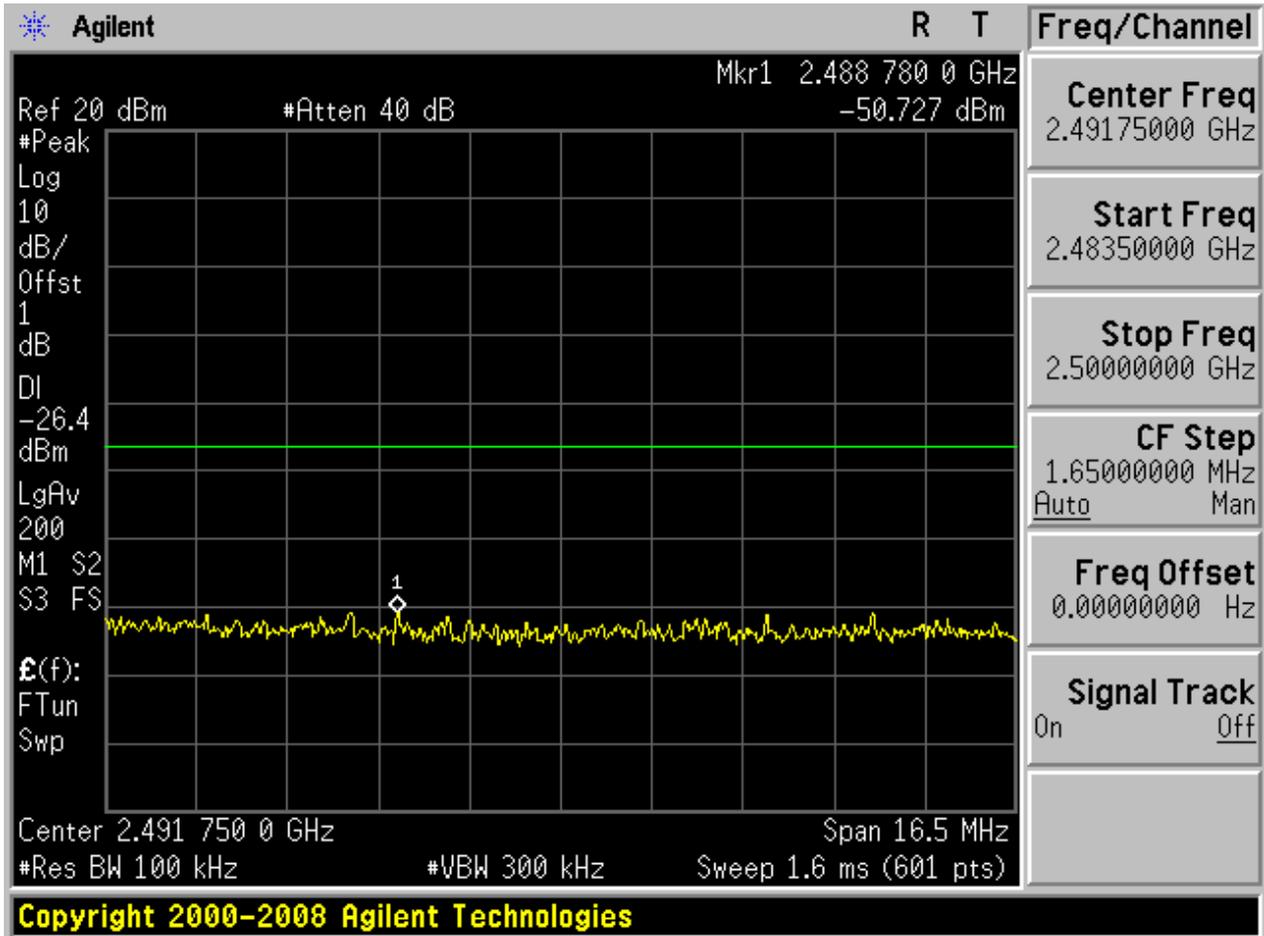
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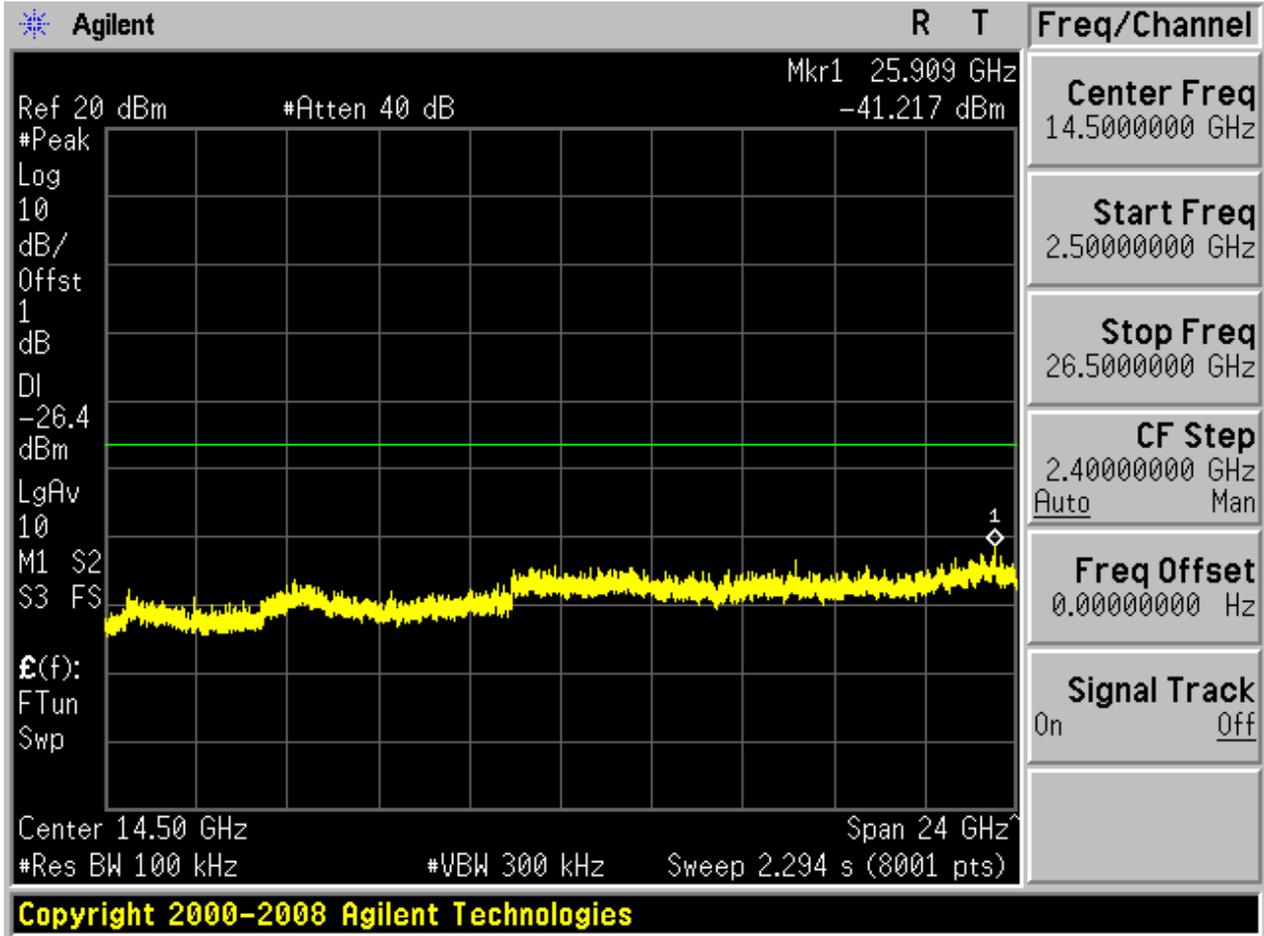






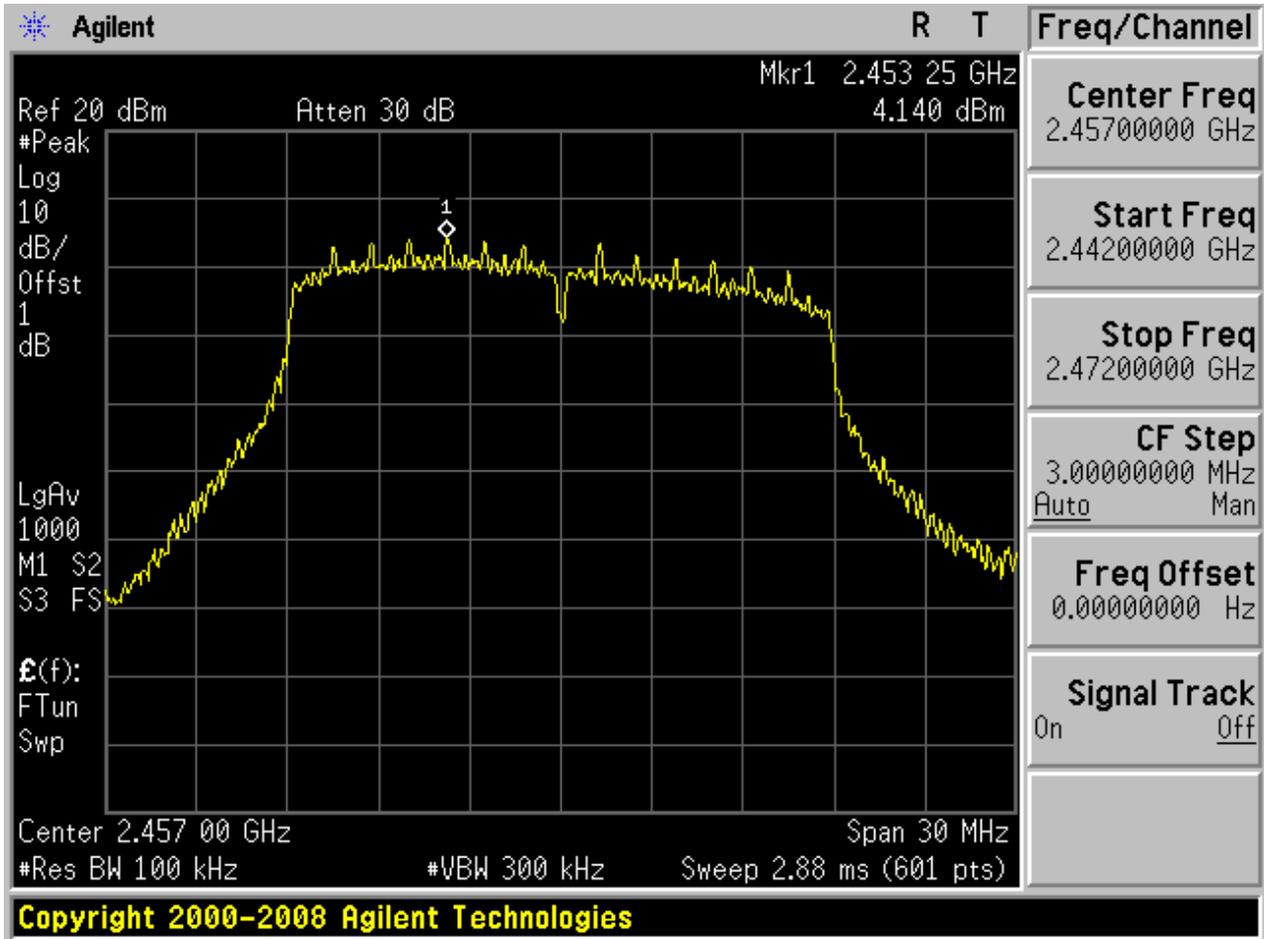






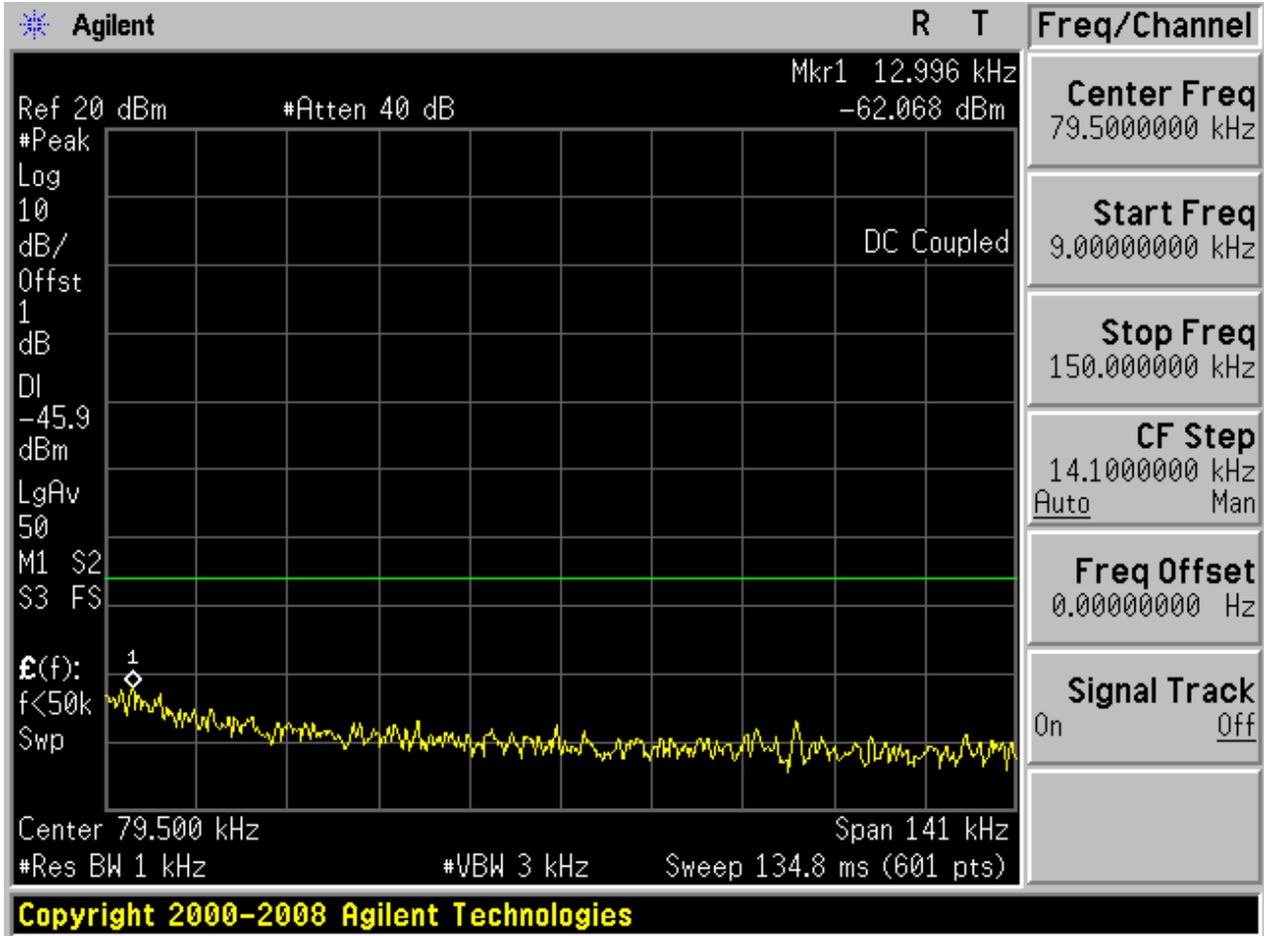
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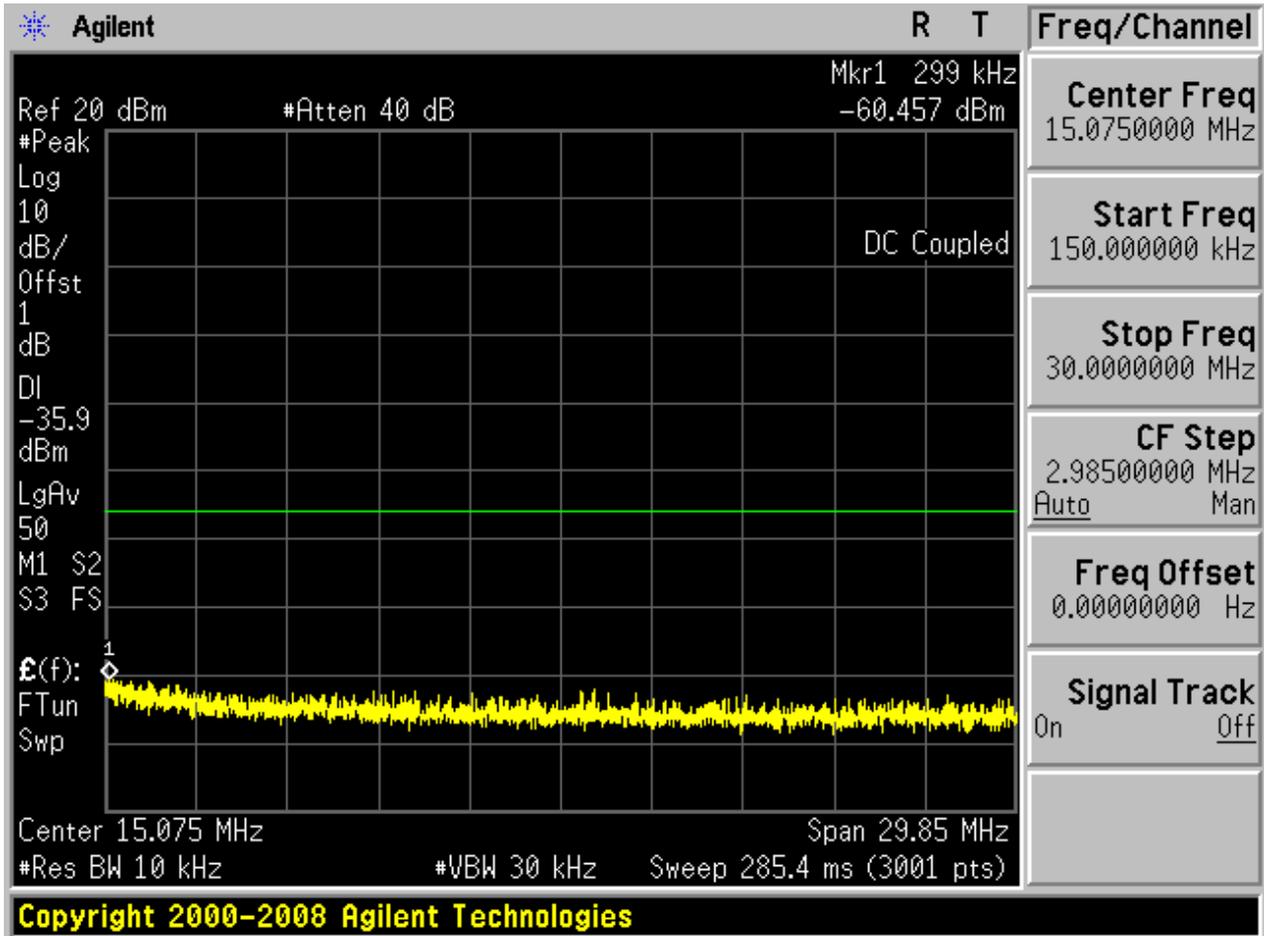
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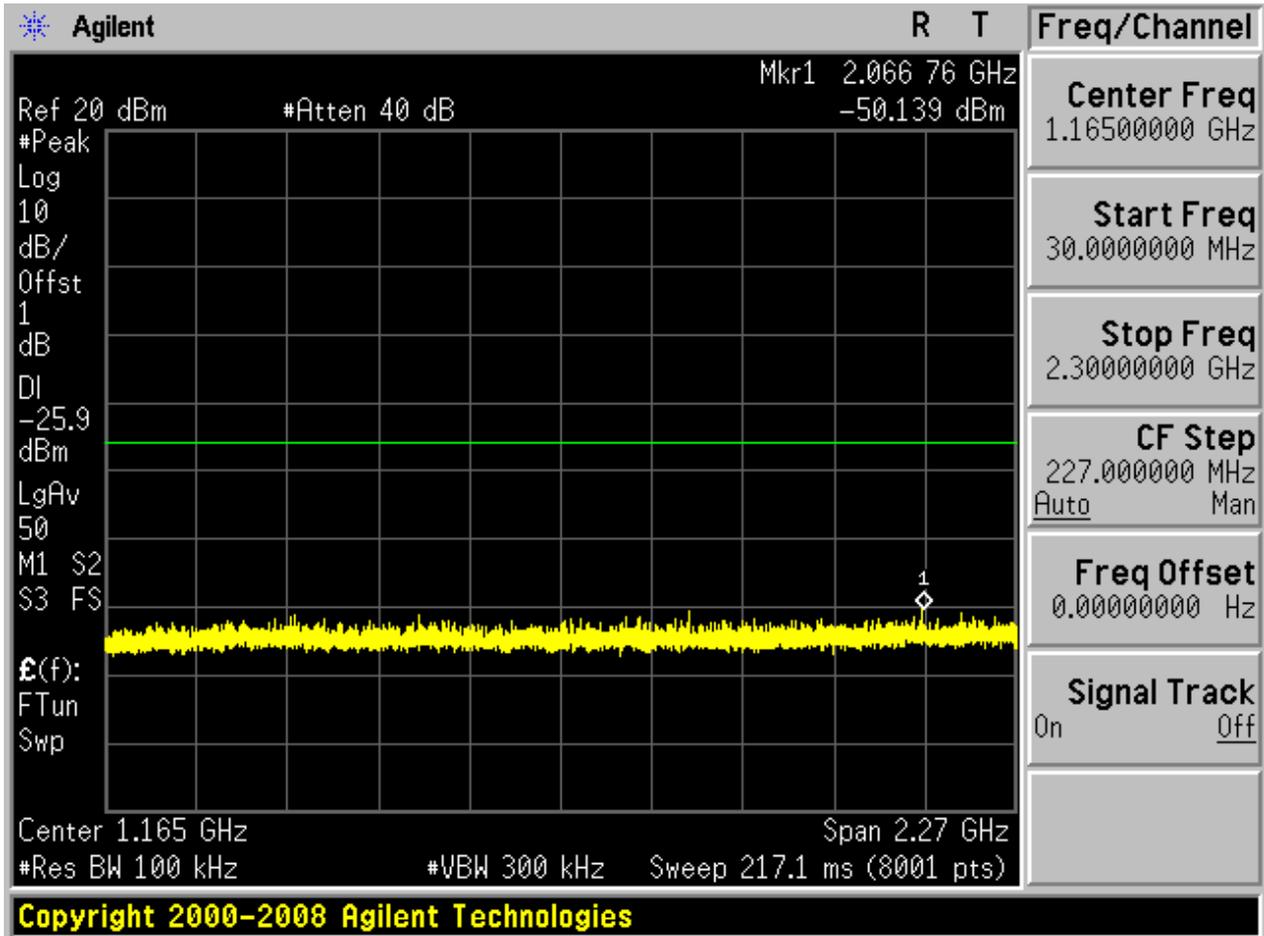


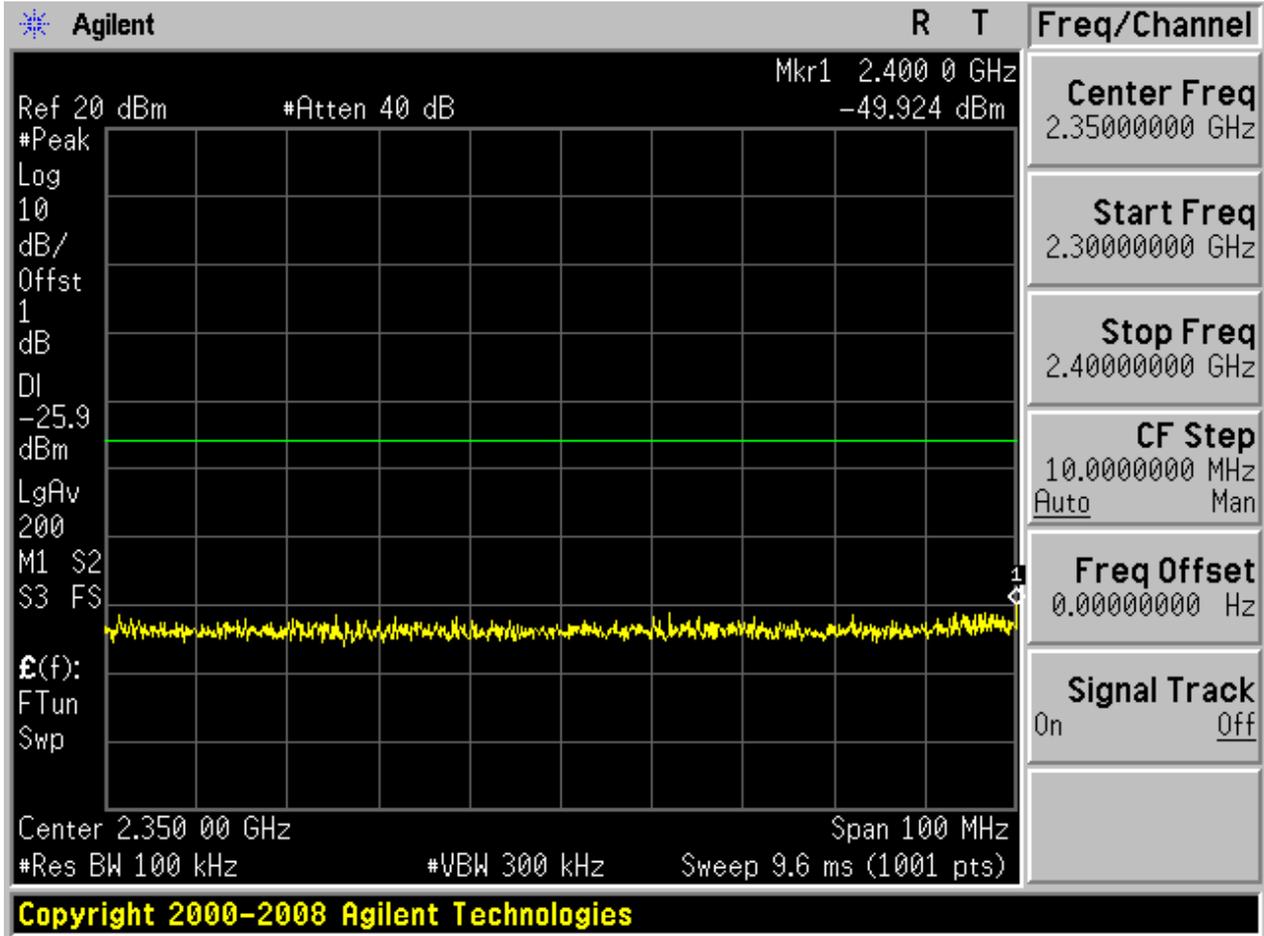


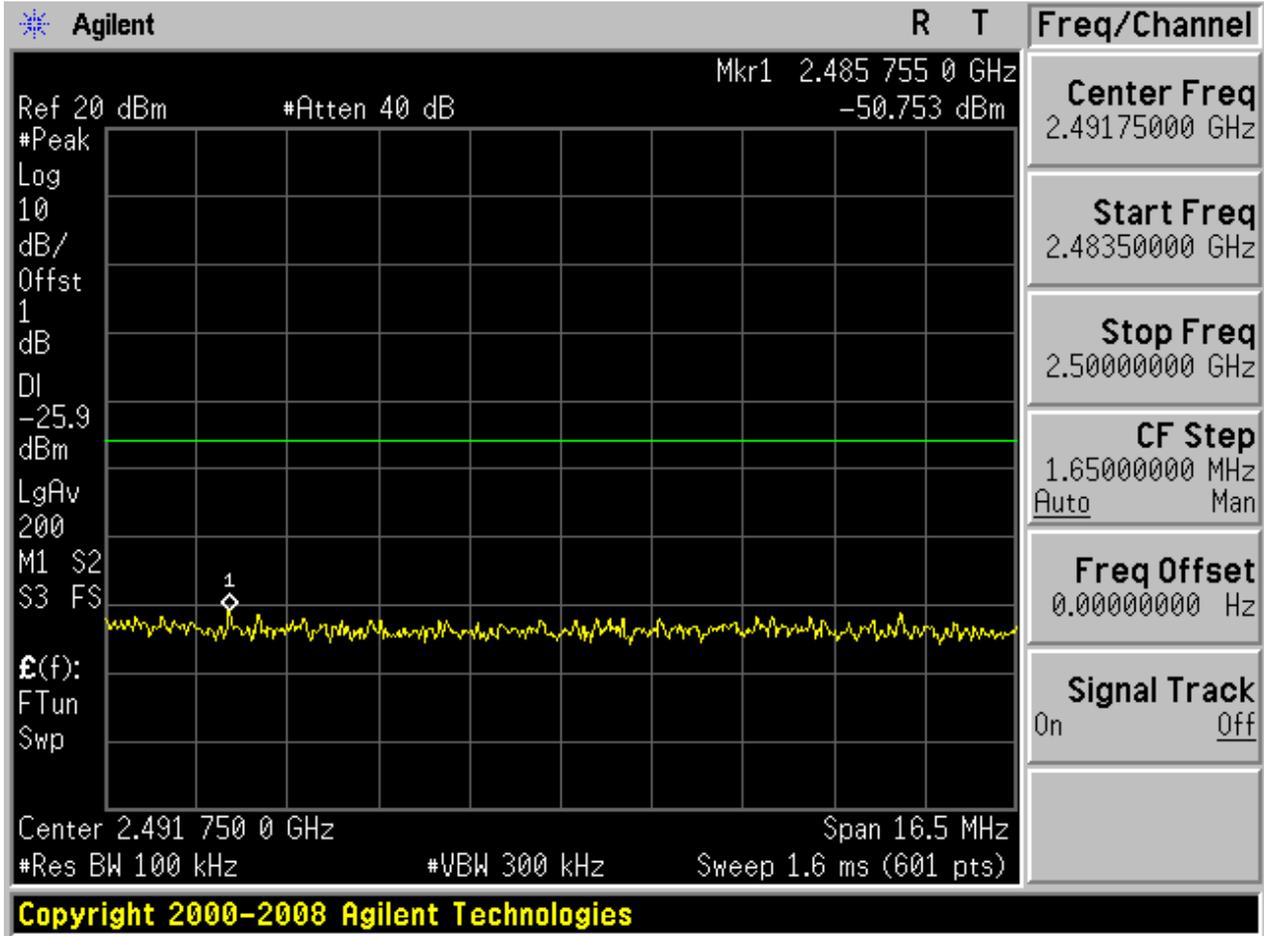
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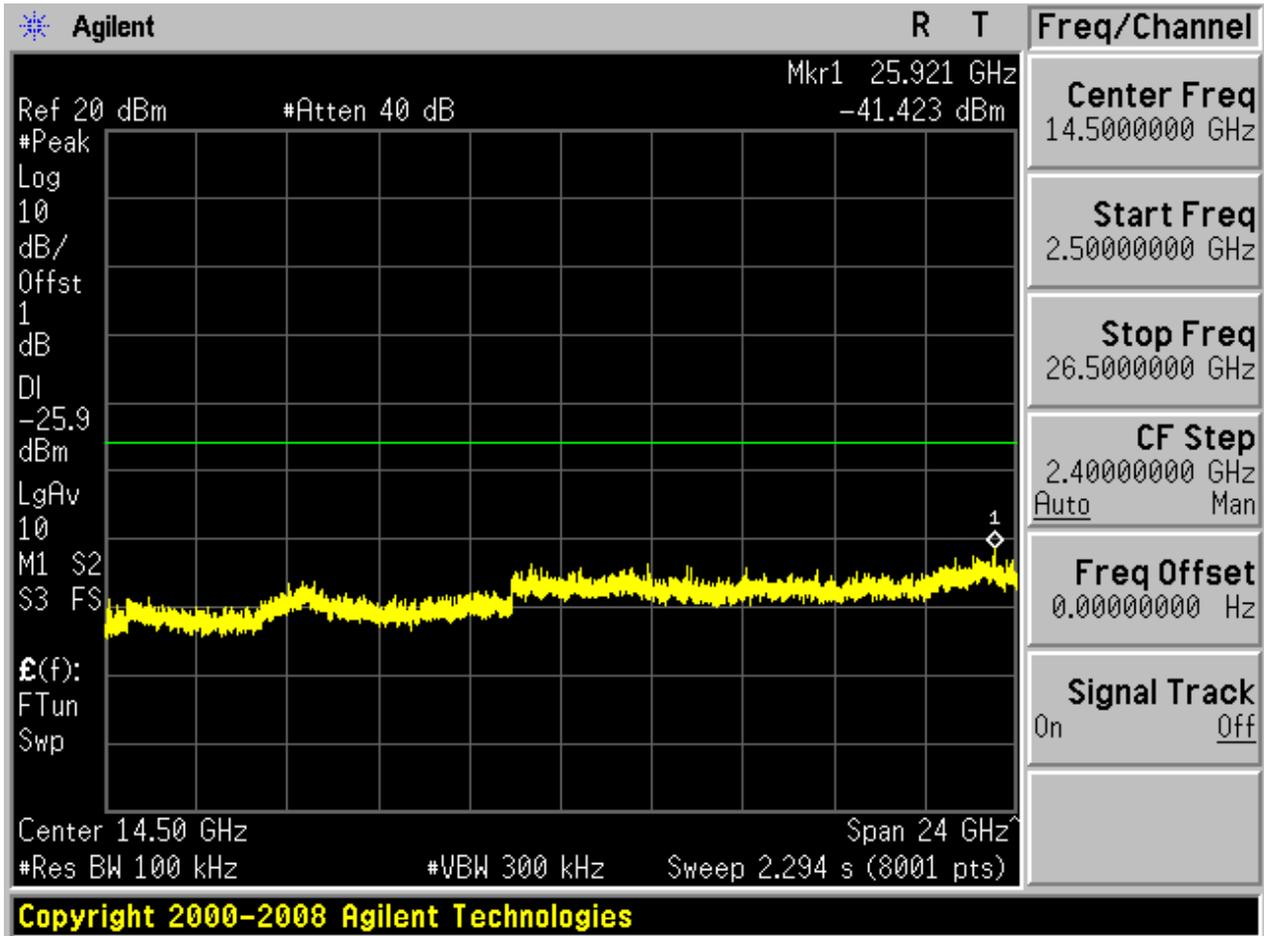








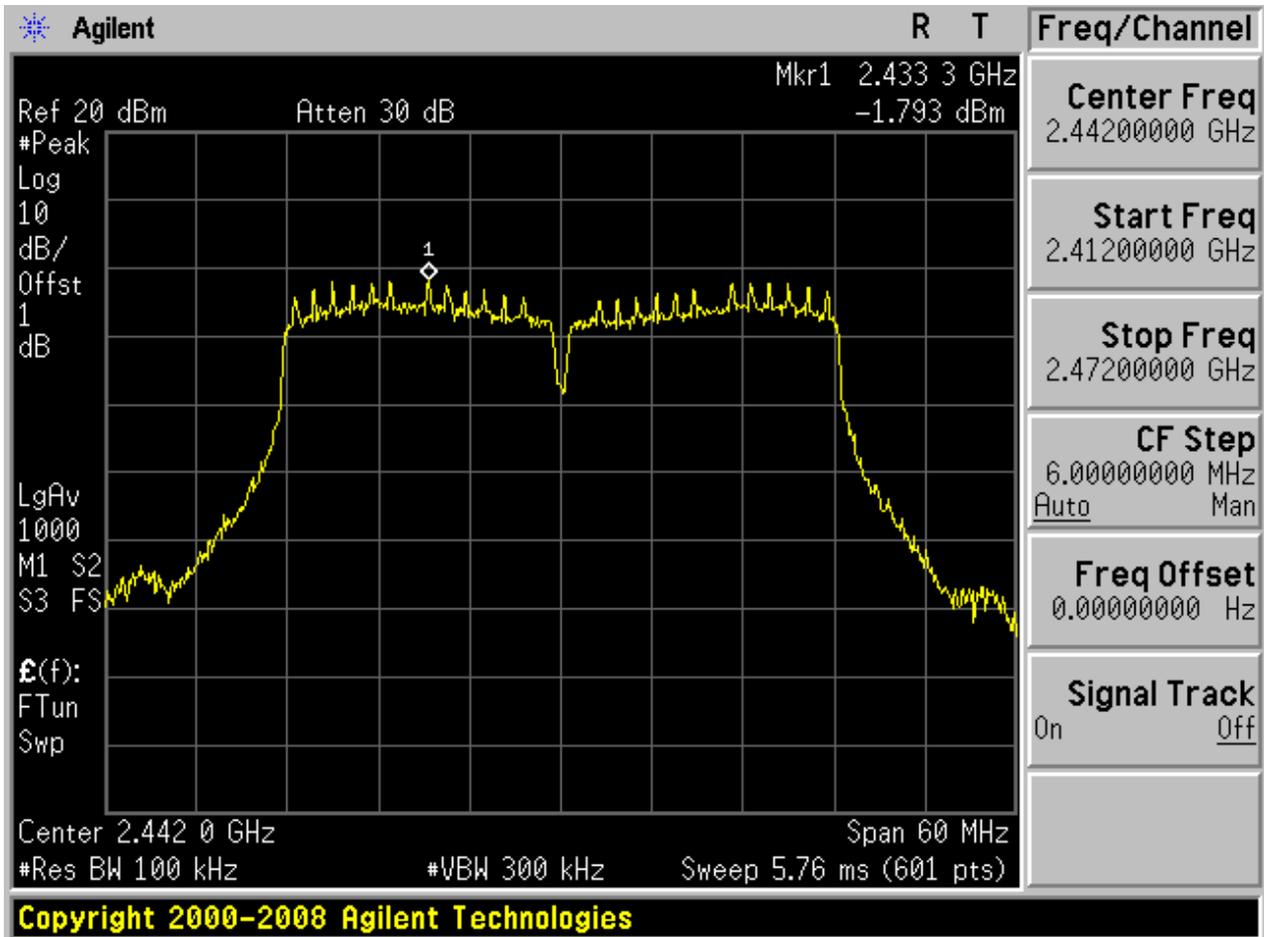






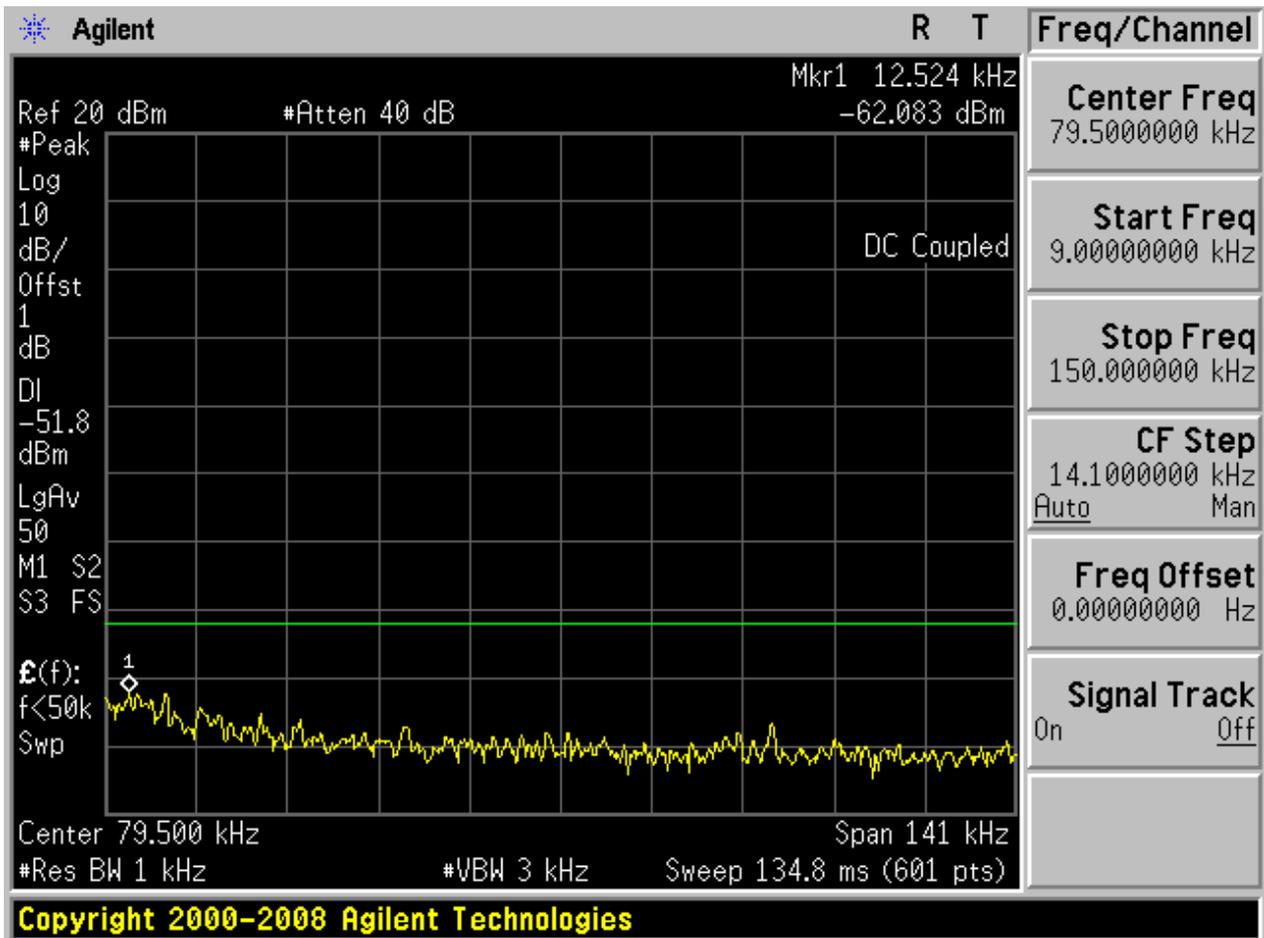
2.19 11N40\_L@Ant 1

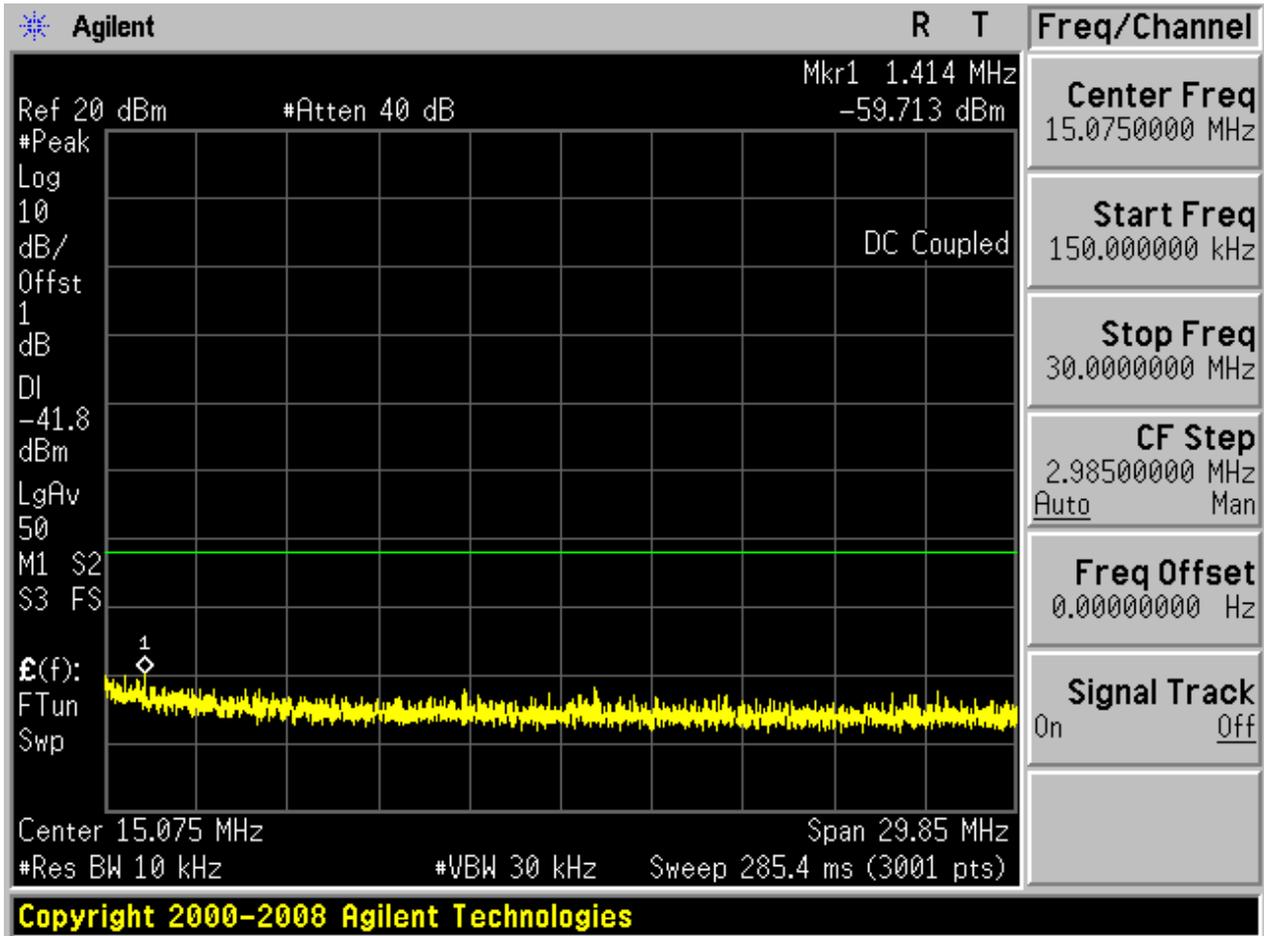
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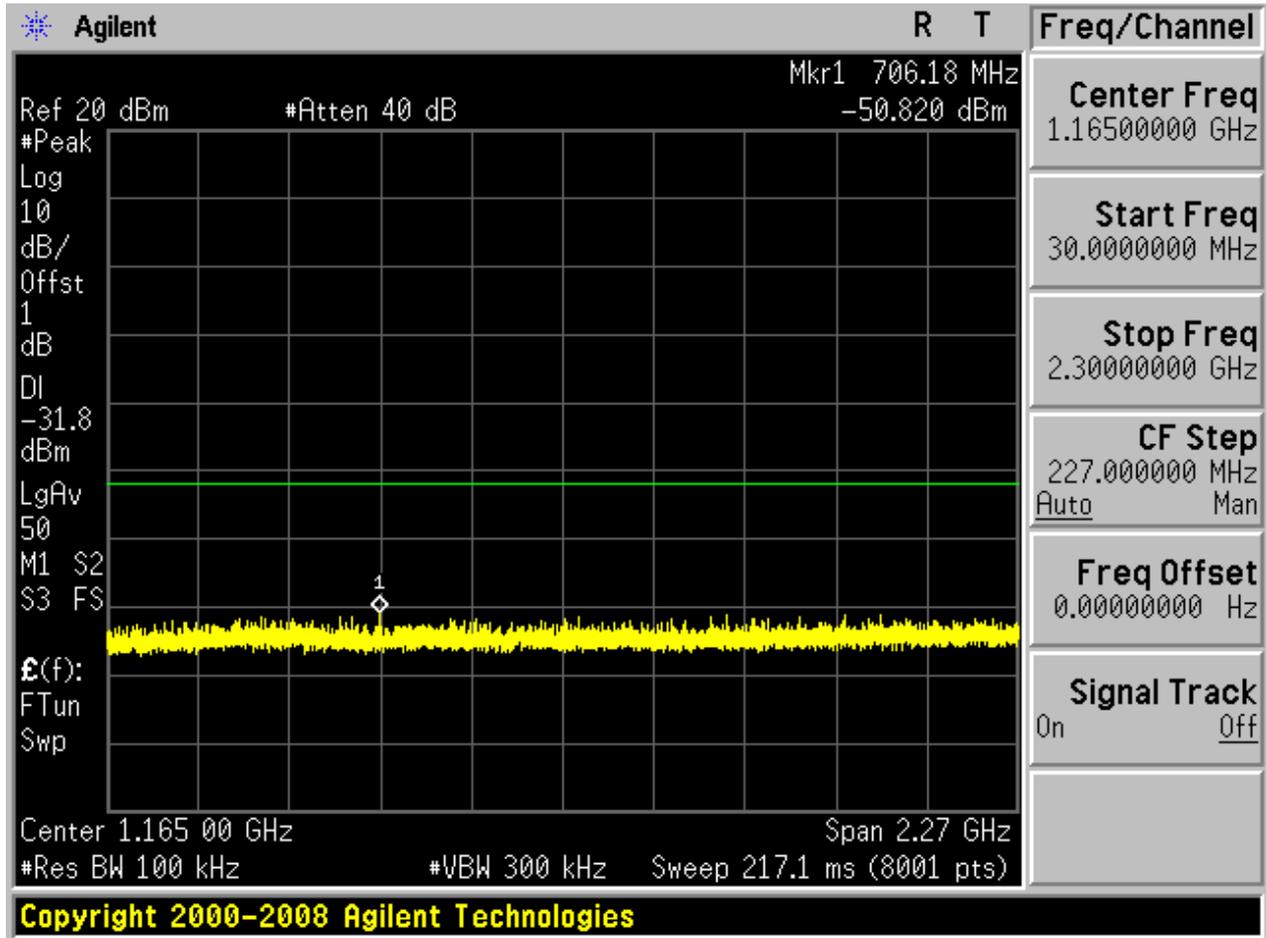


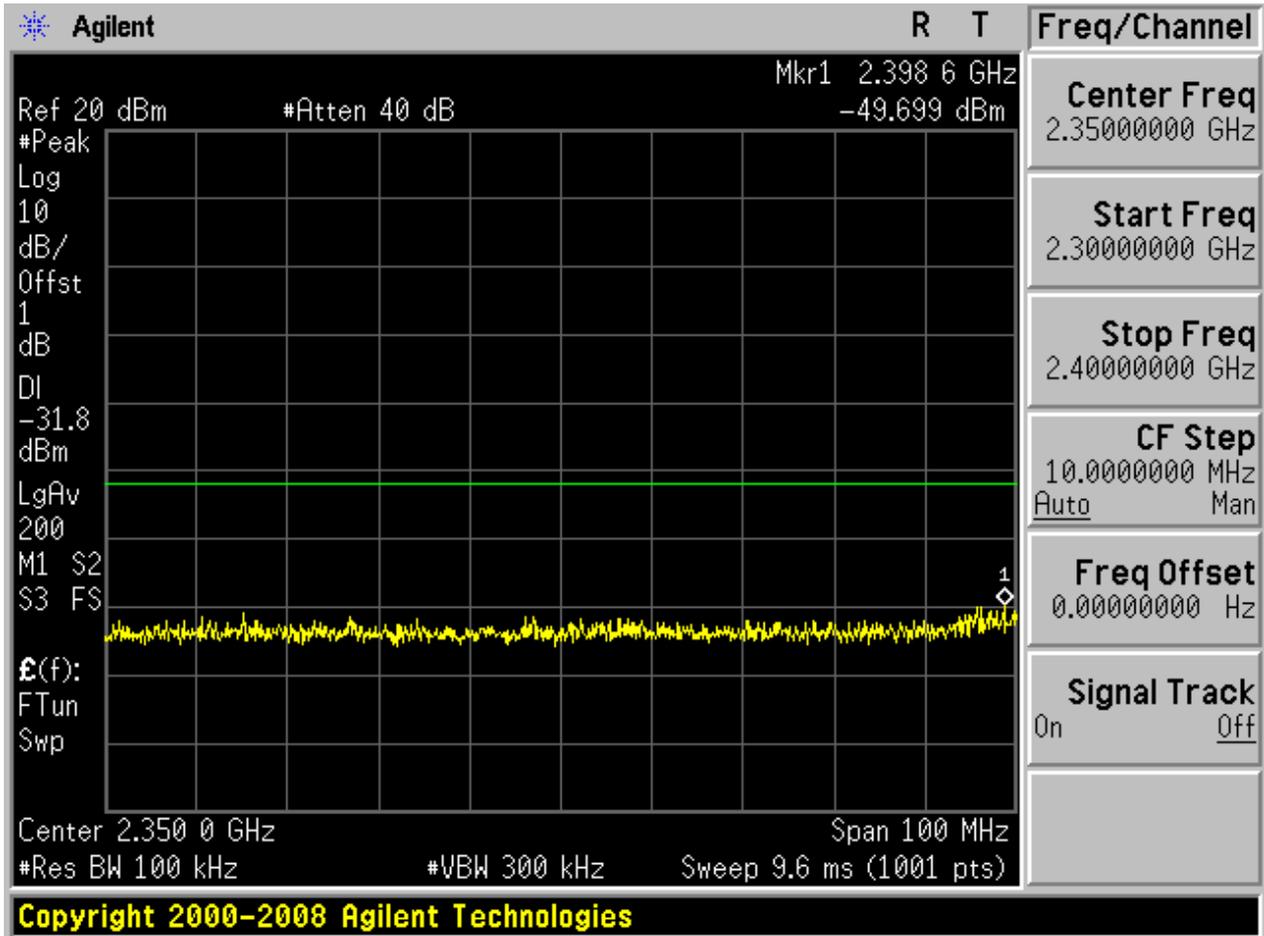


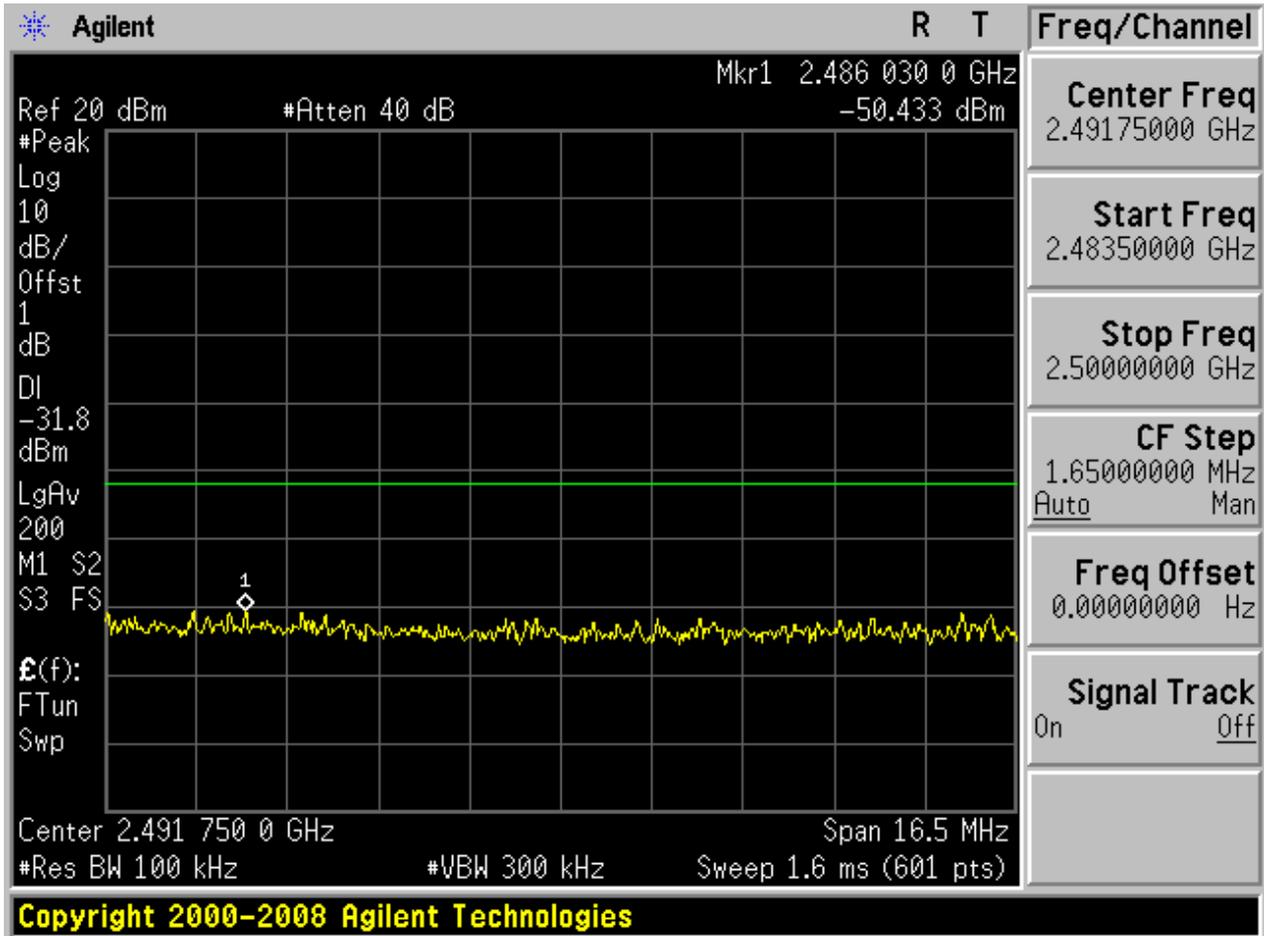
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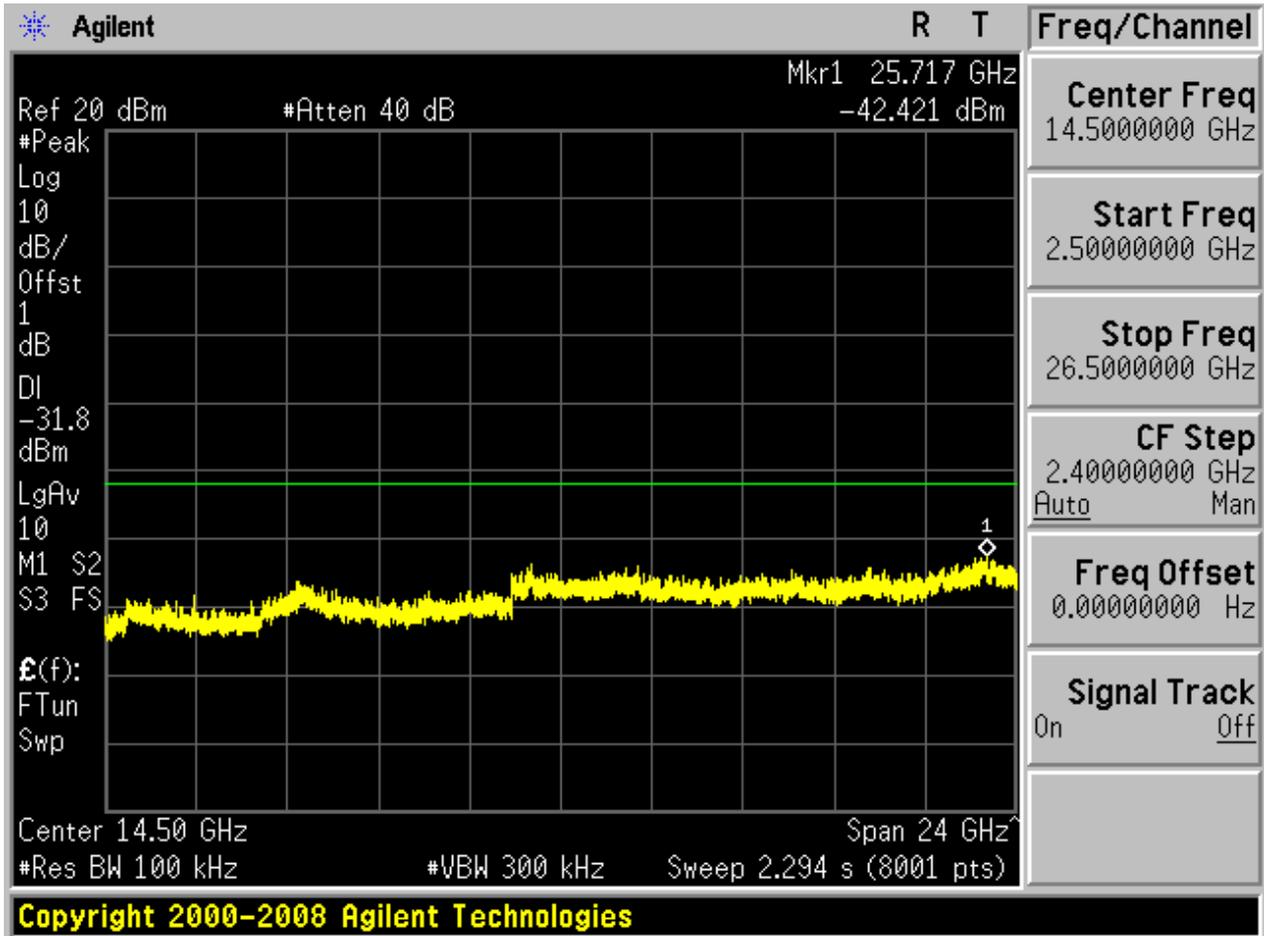








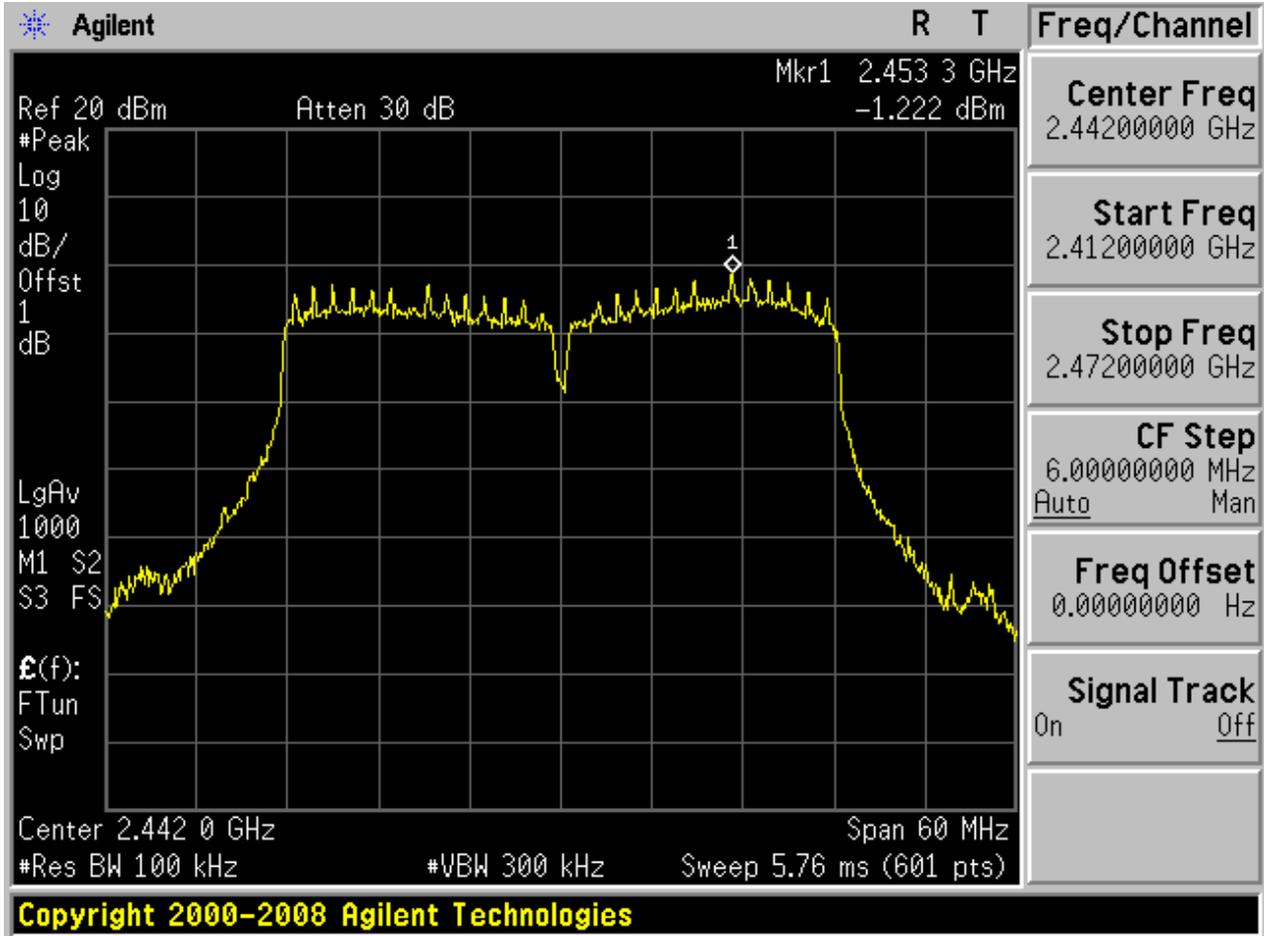




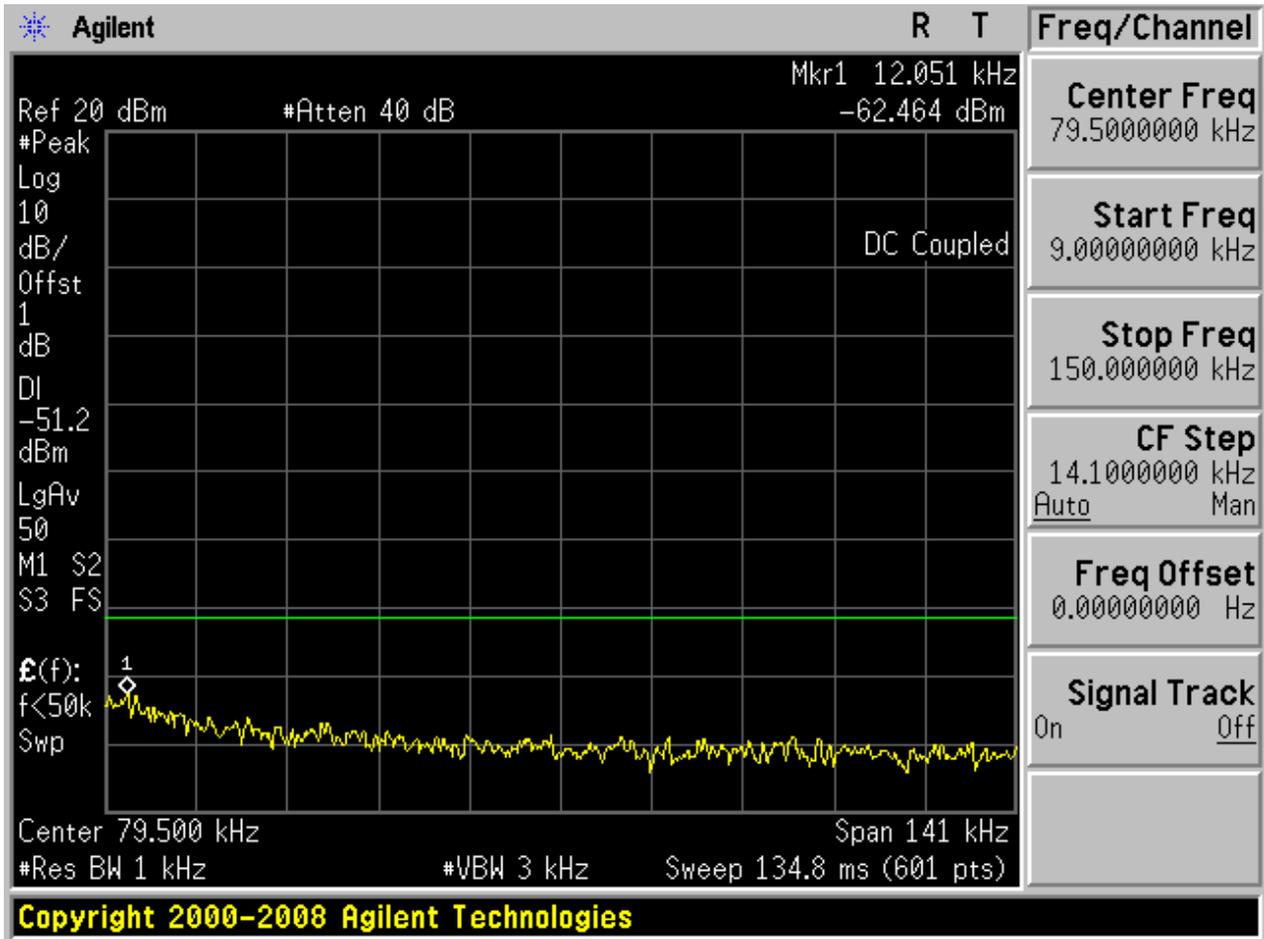


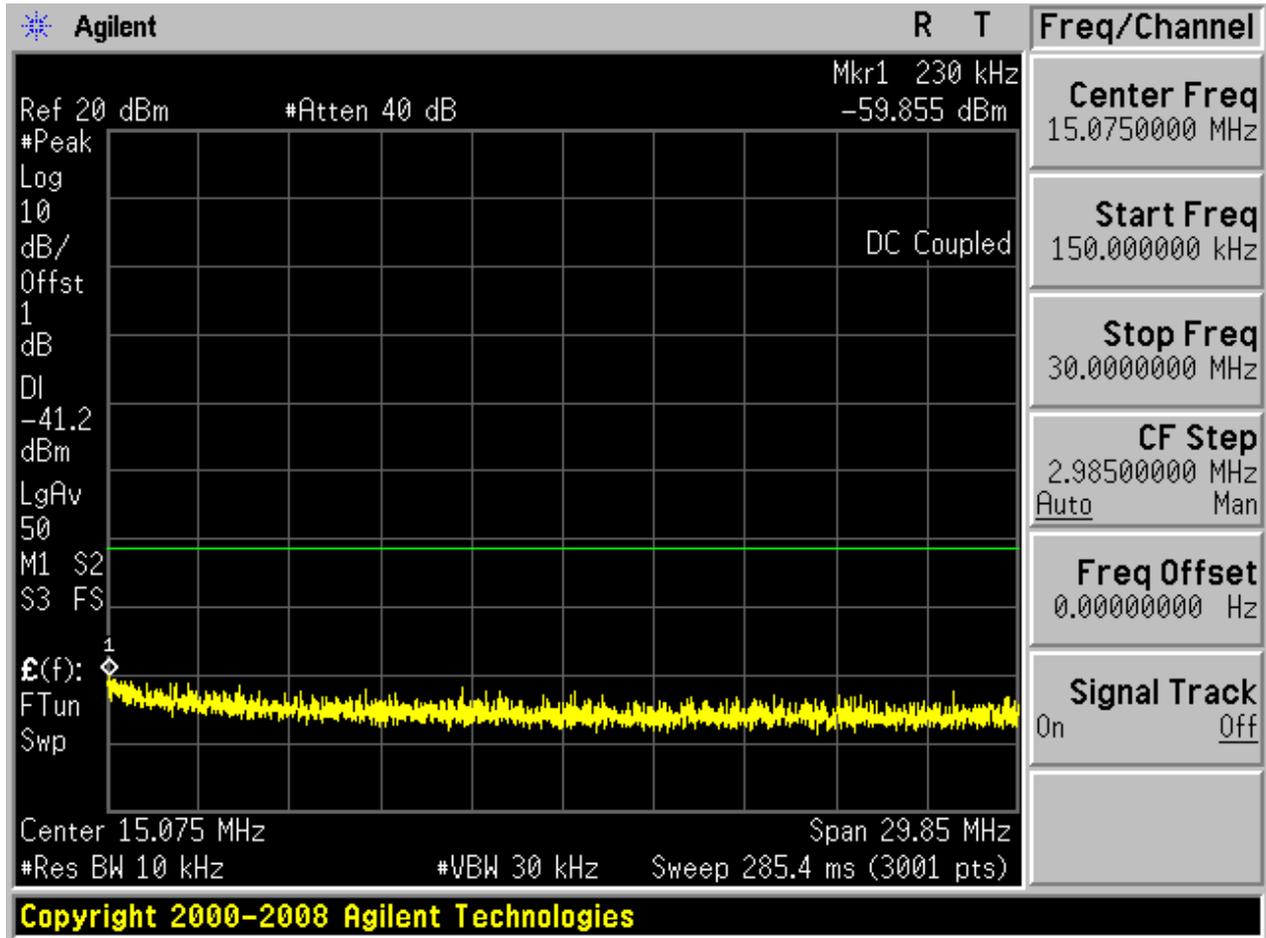
2.20 11N40\_L@Ant 2

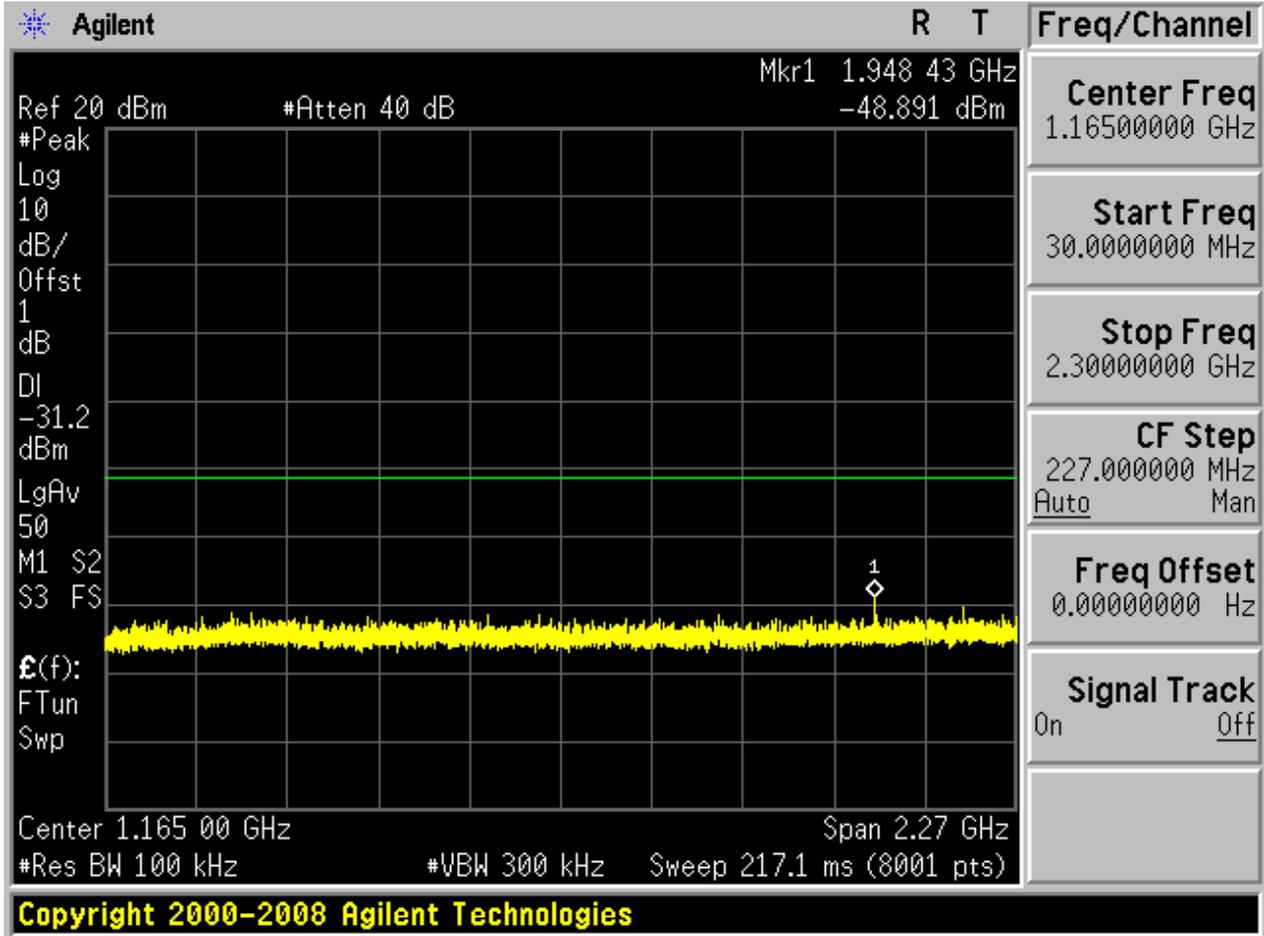
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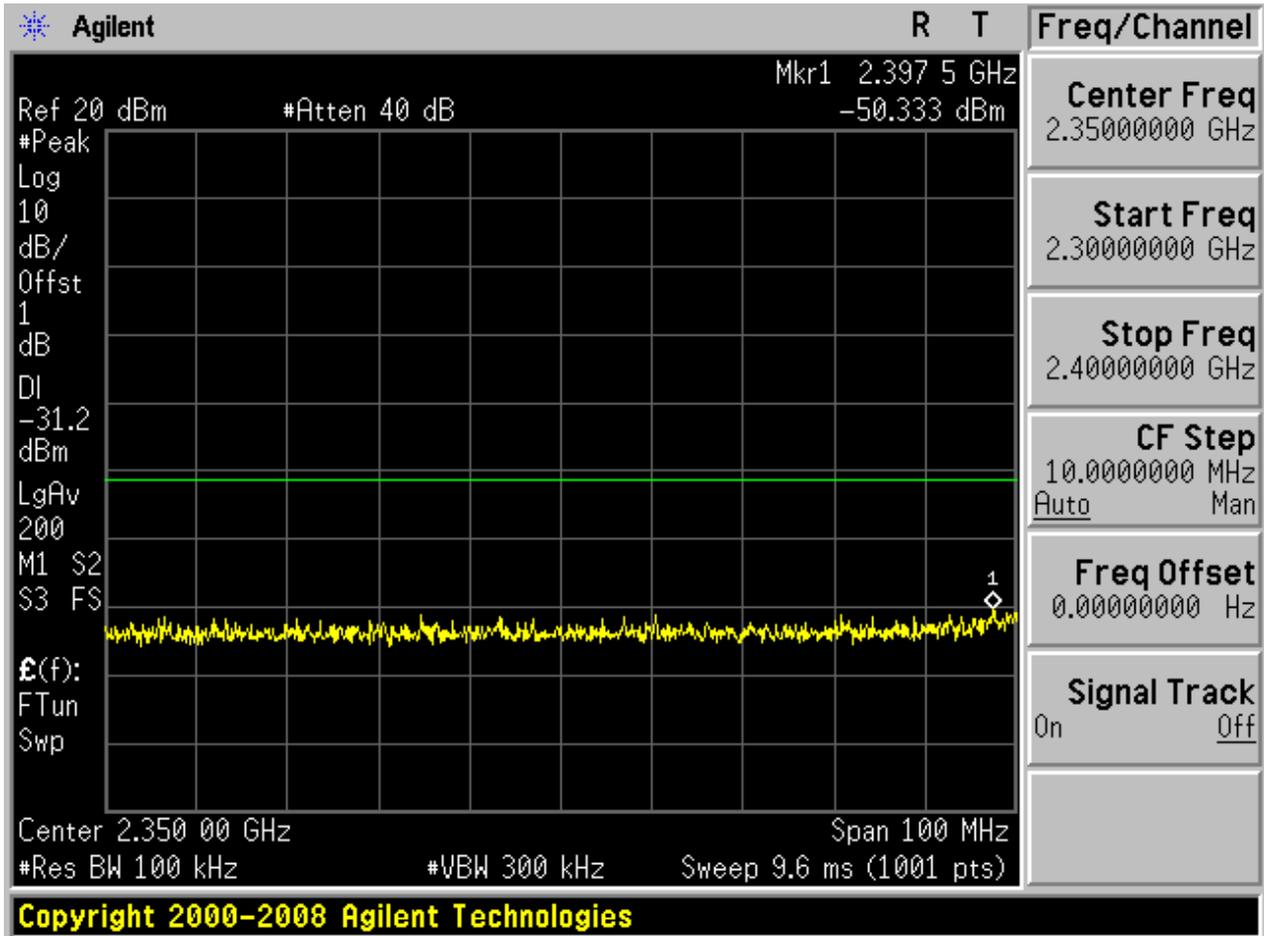


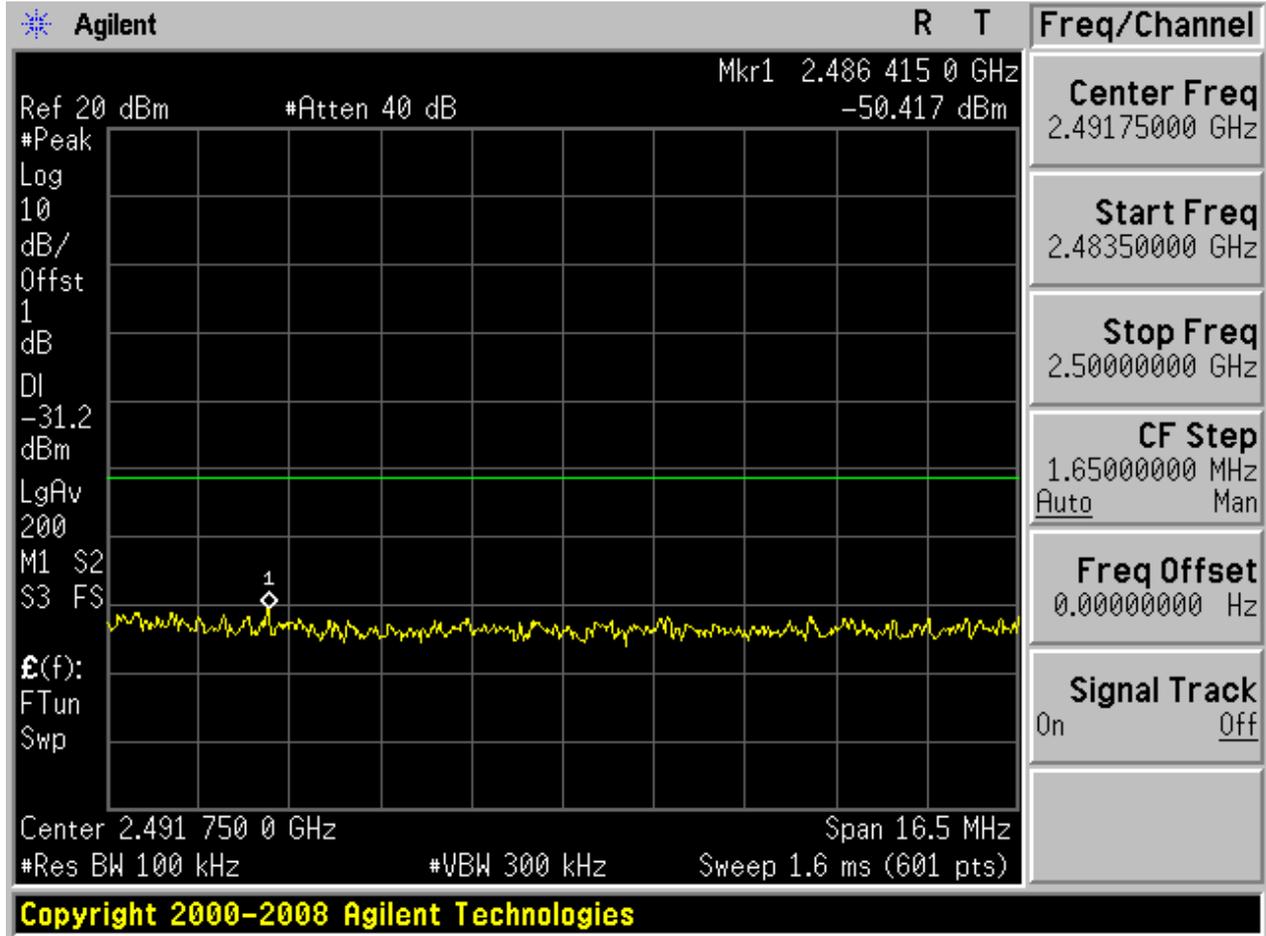
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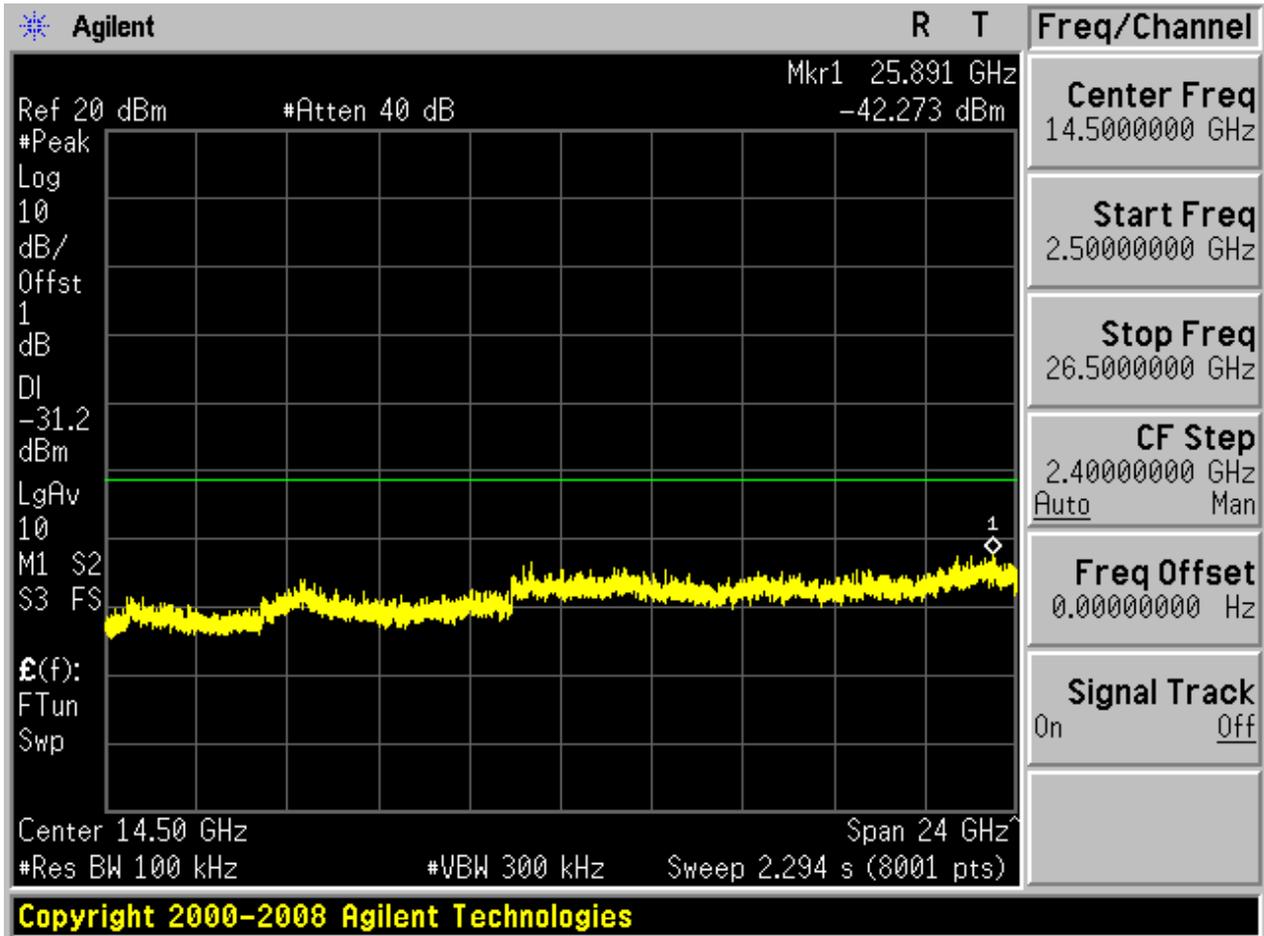








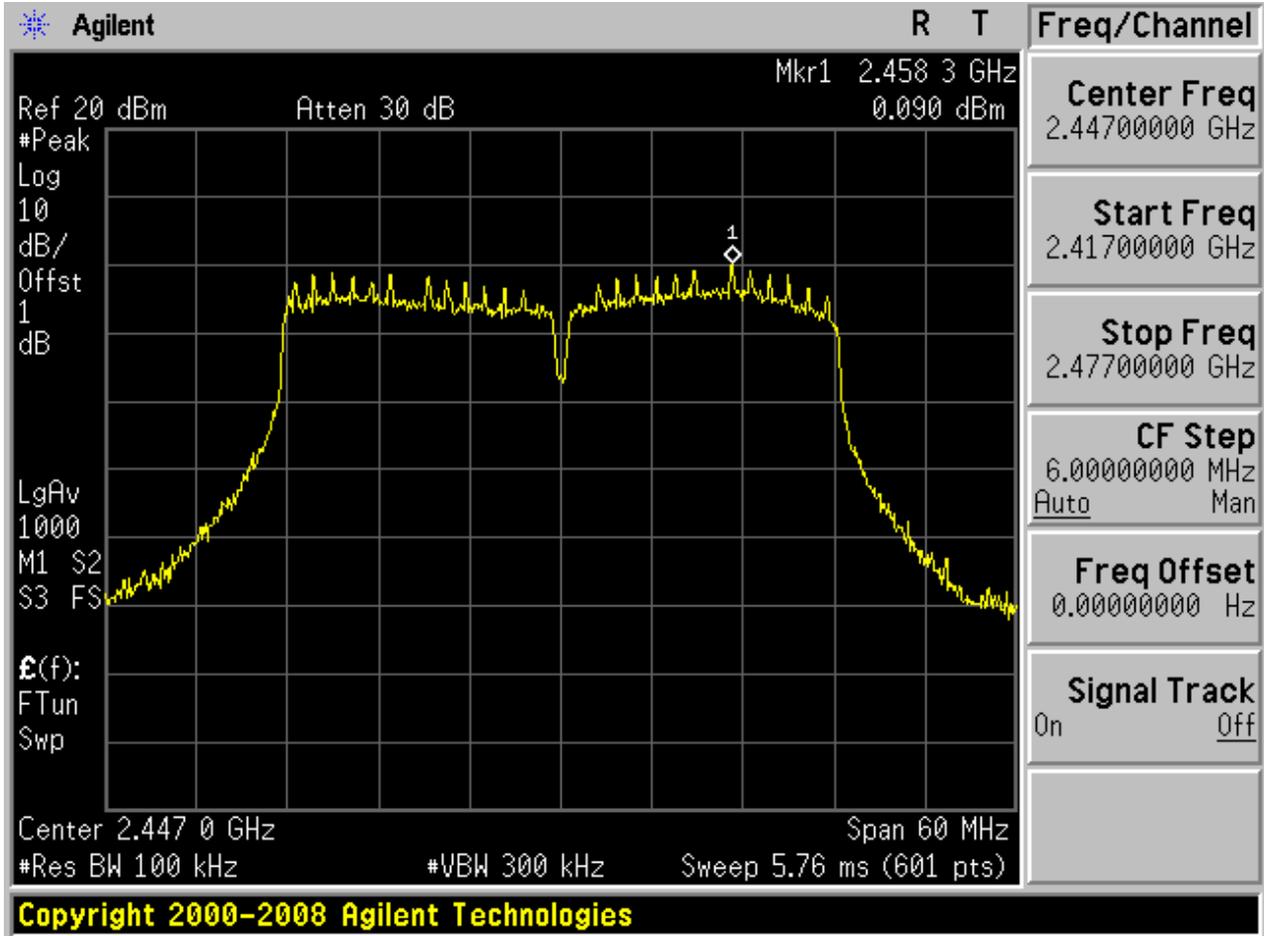






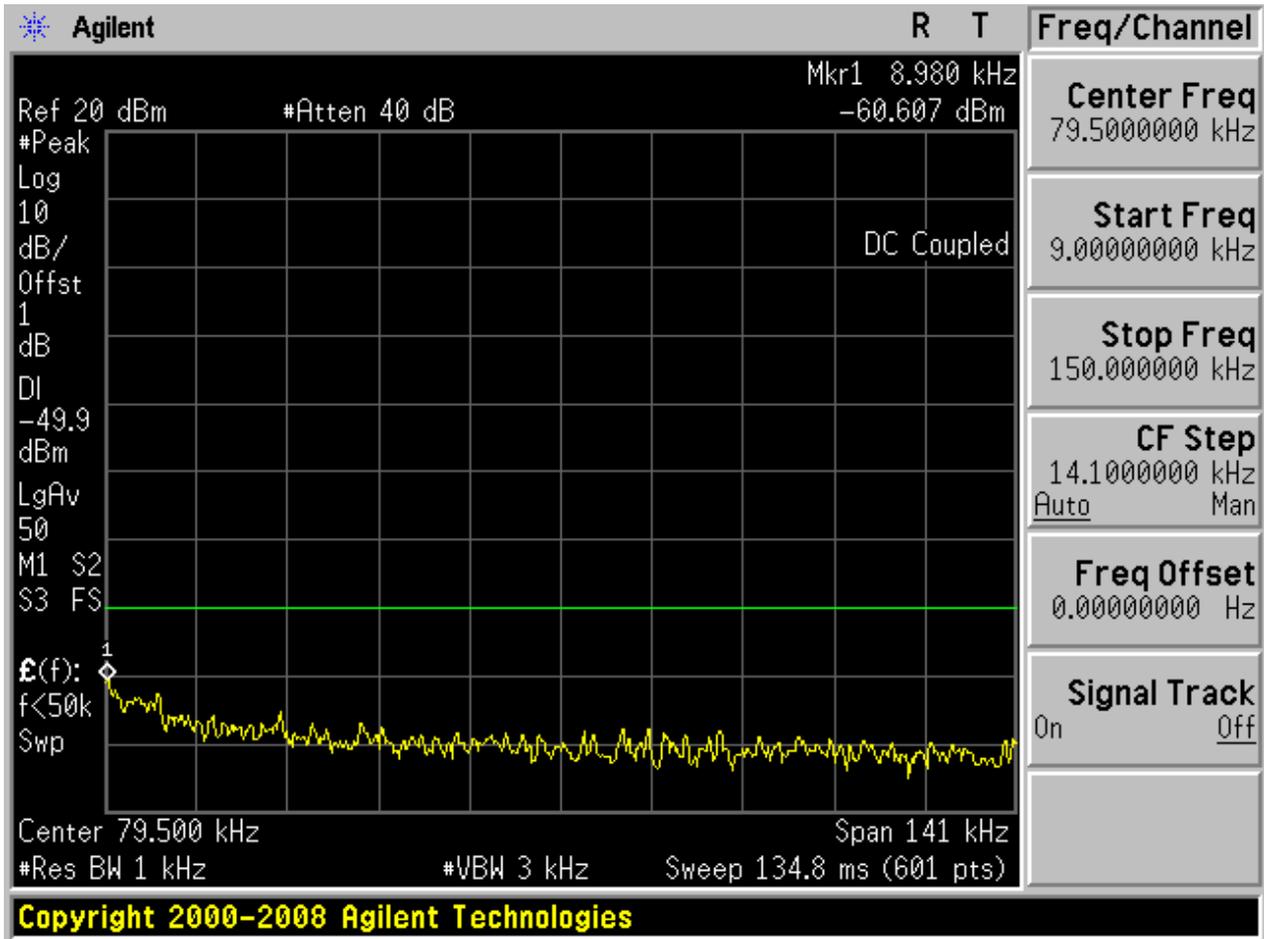
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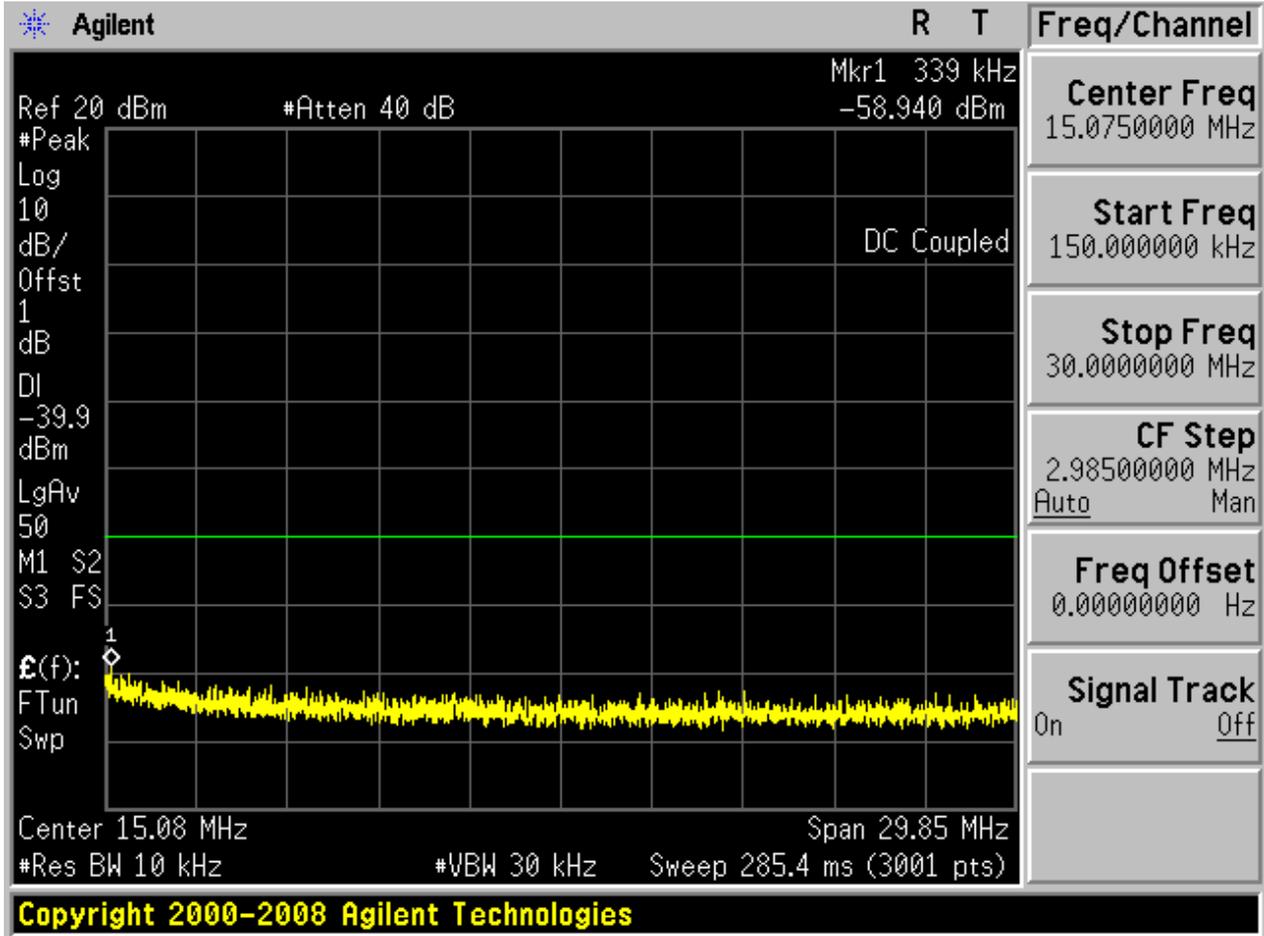
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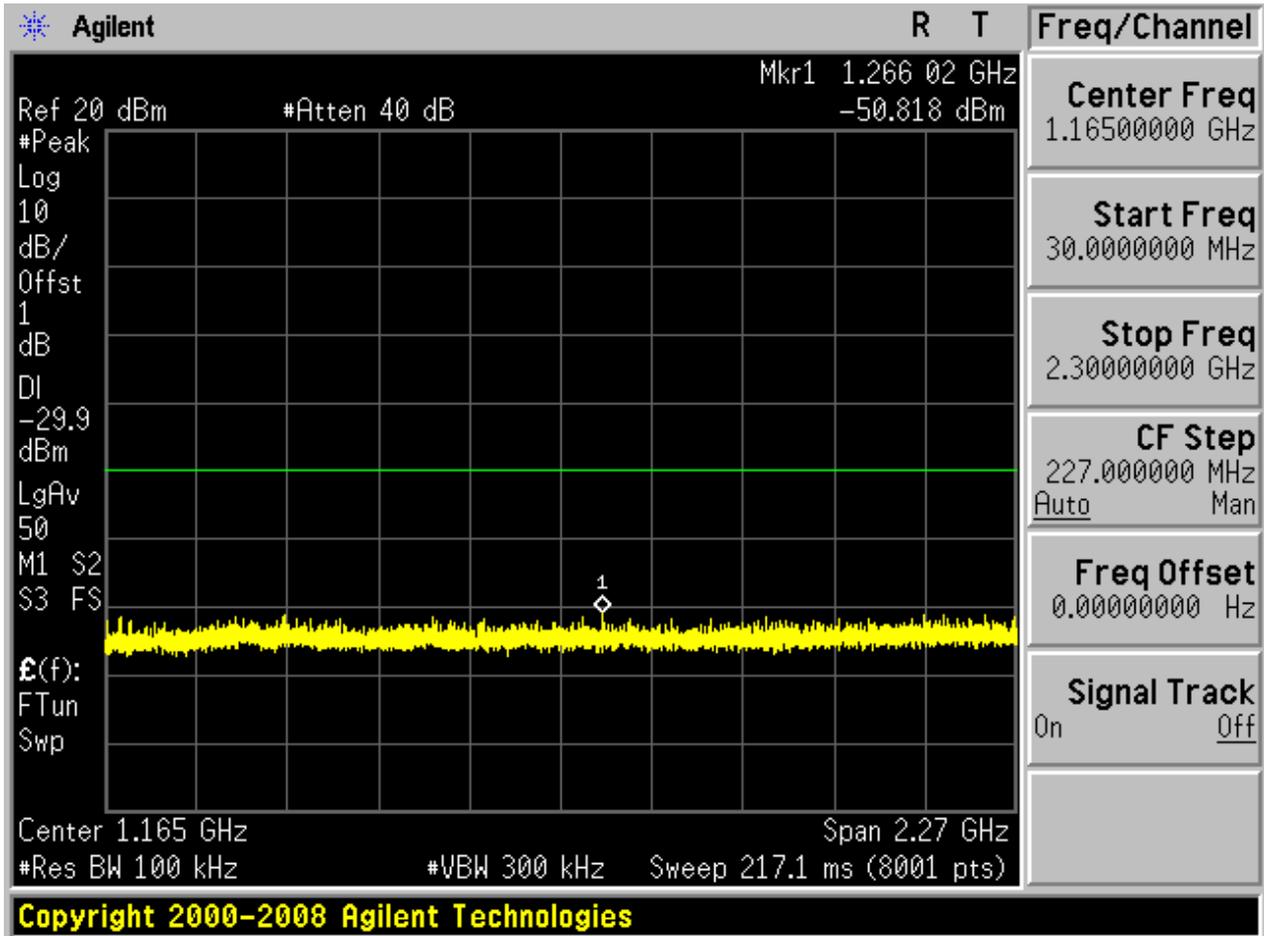


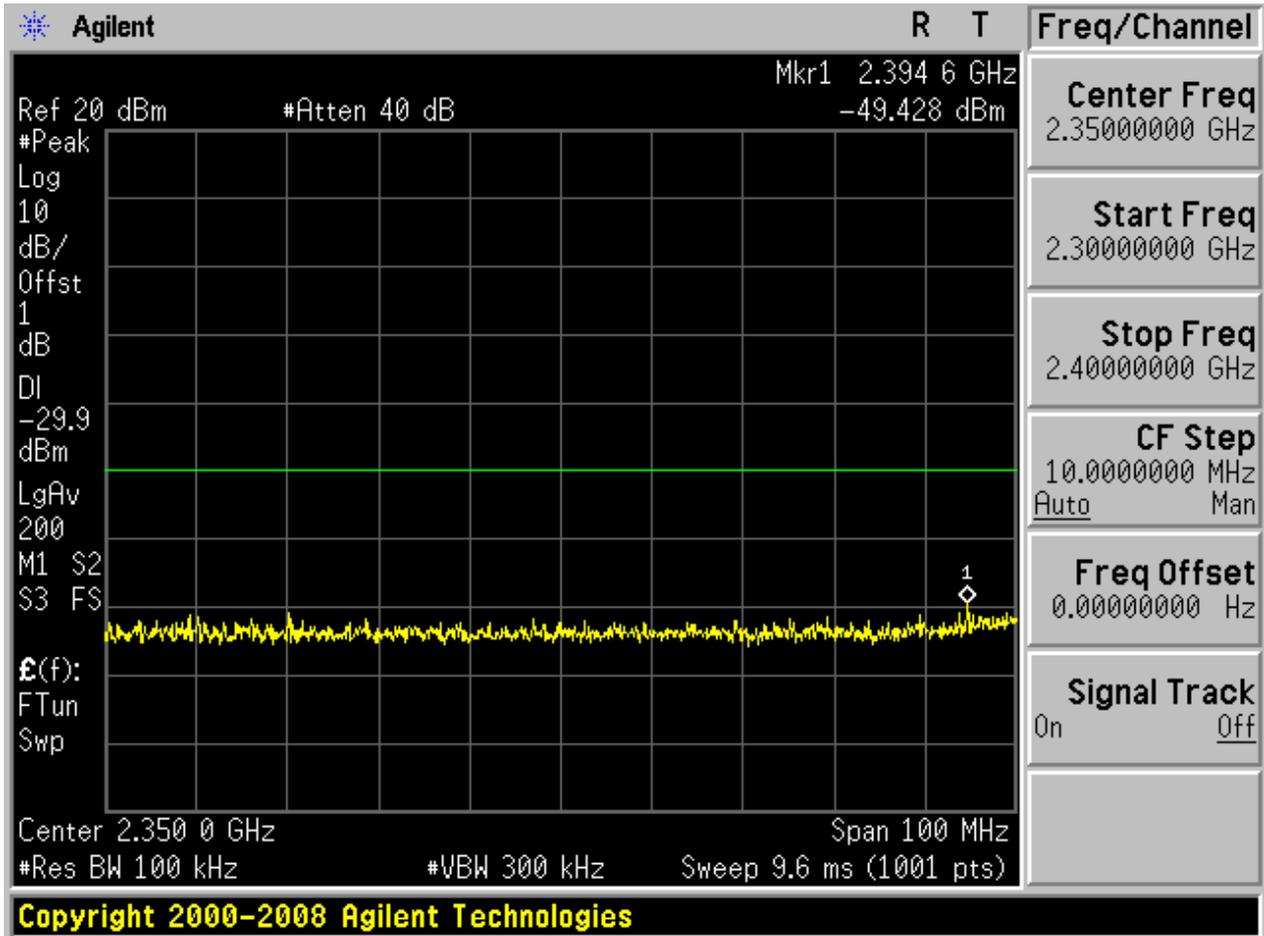


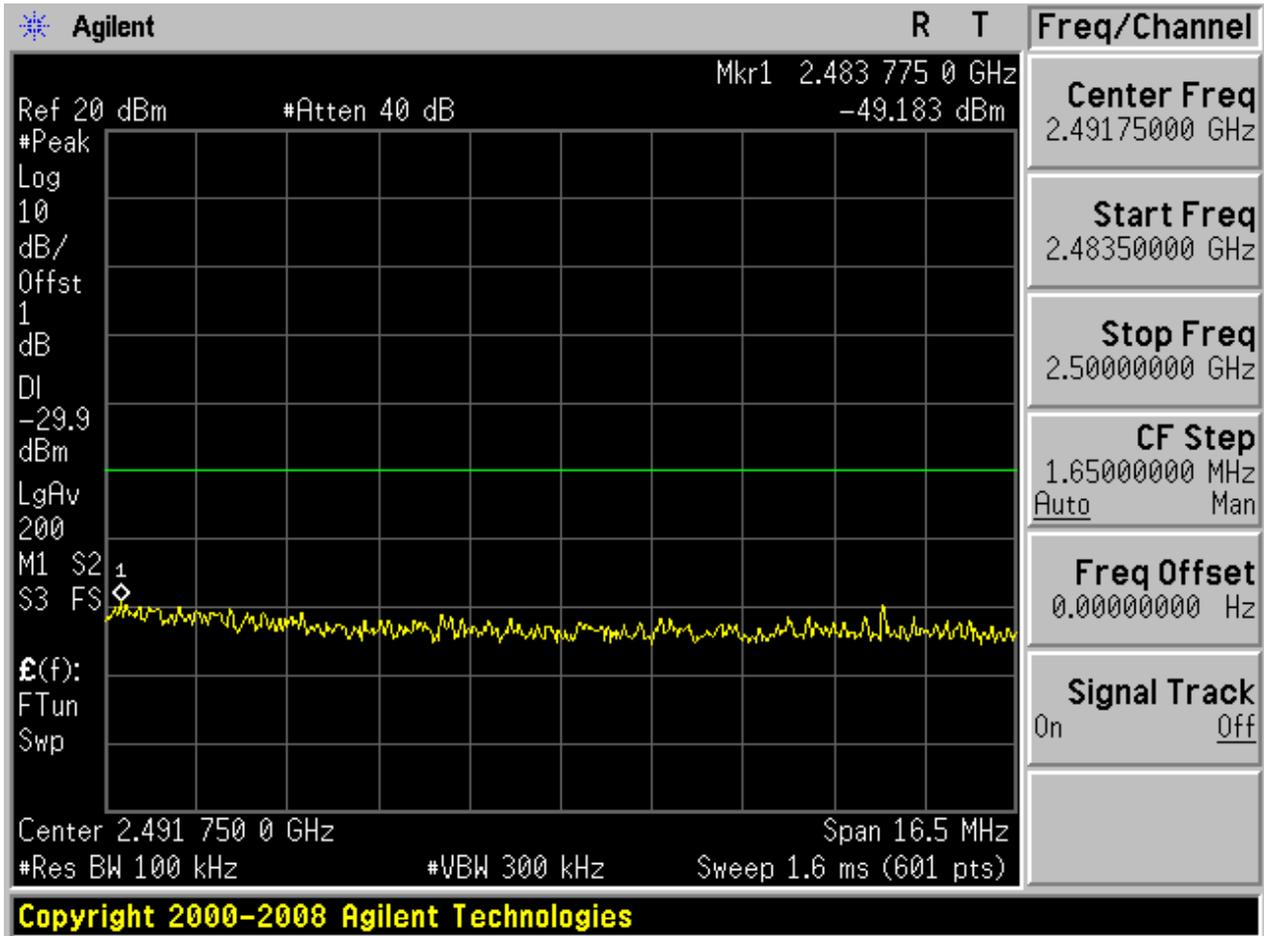
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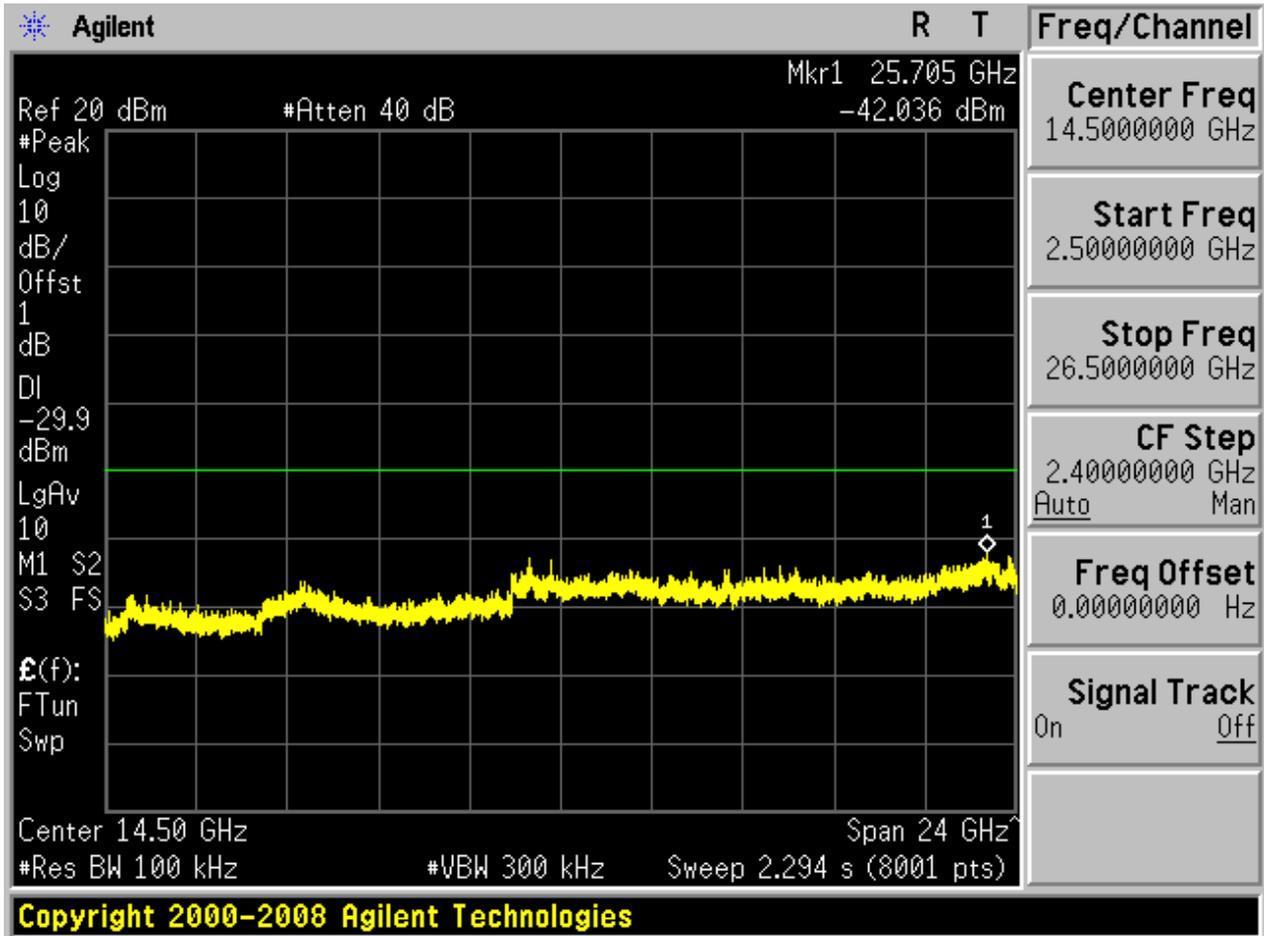








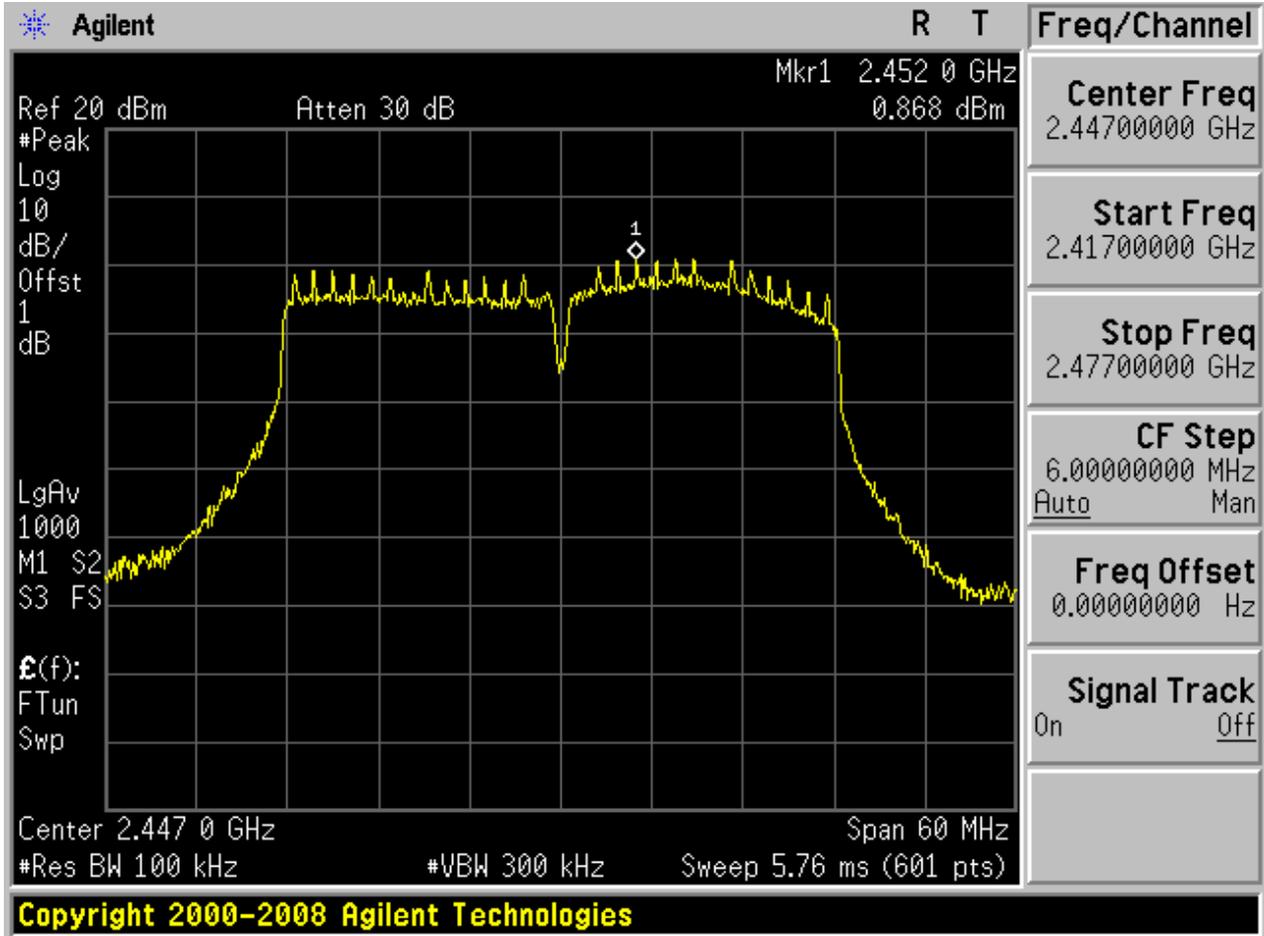




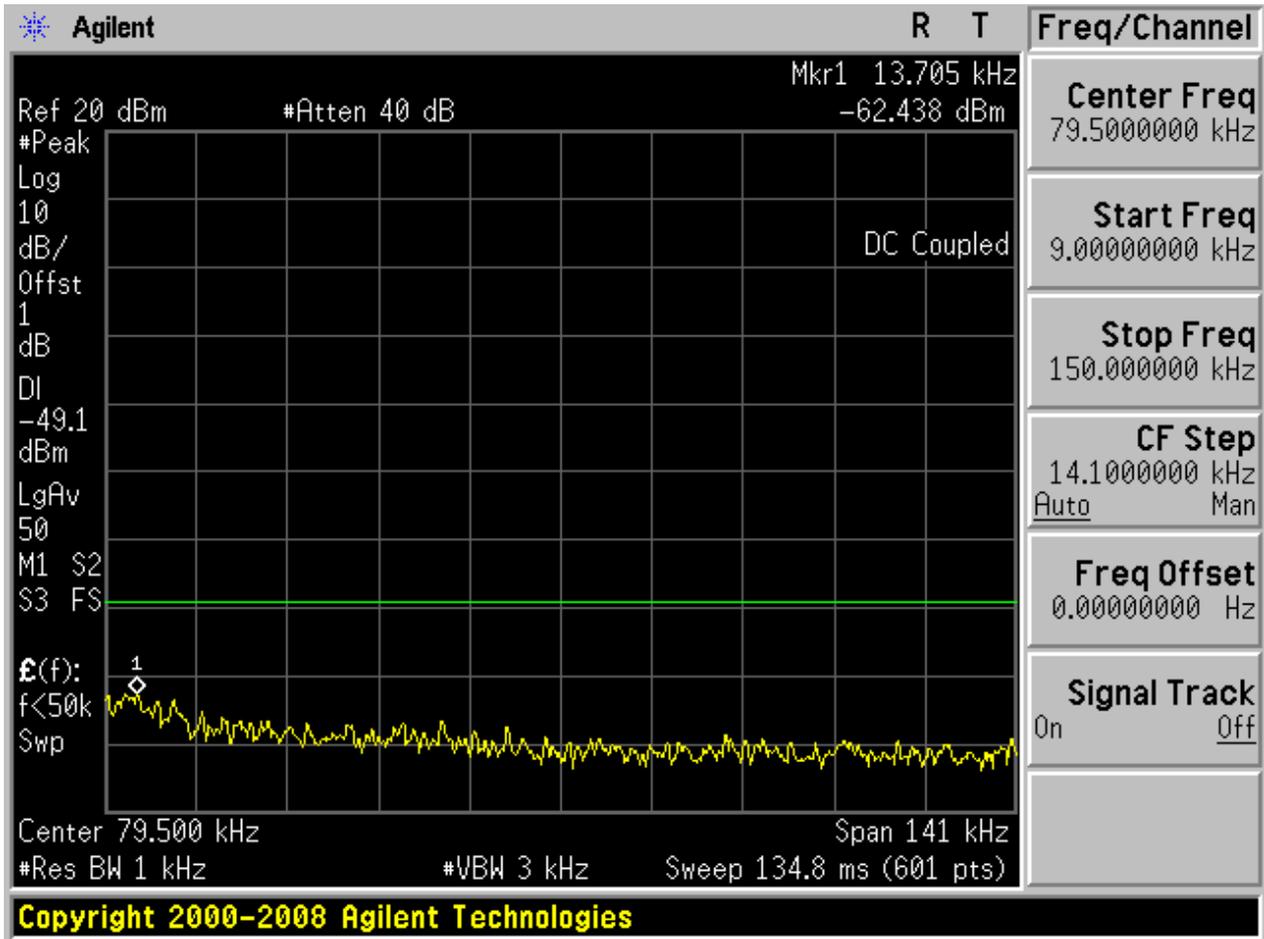


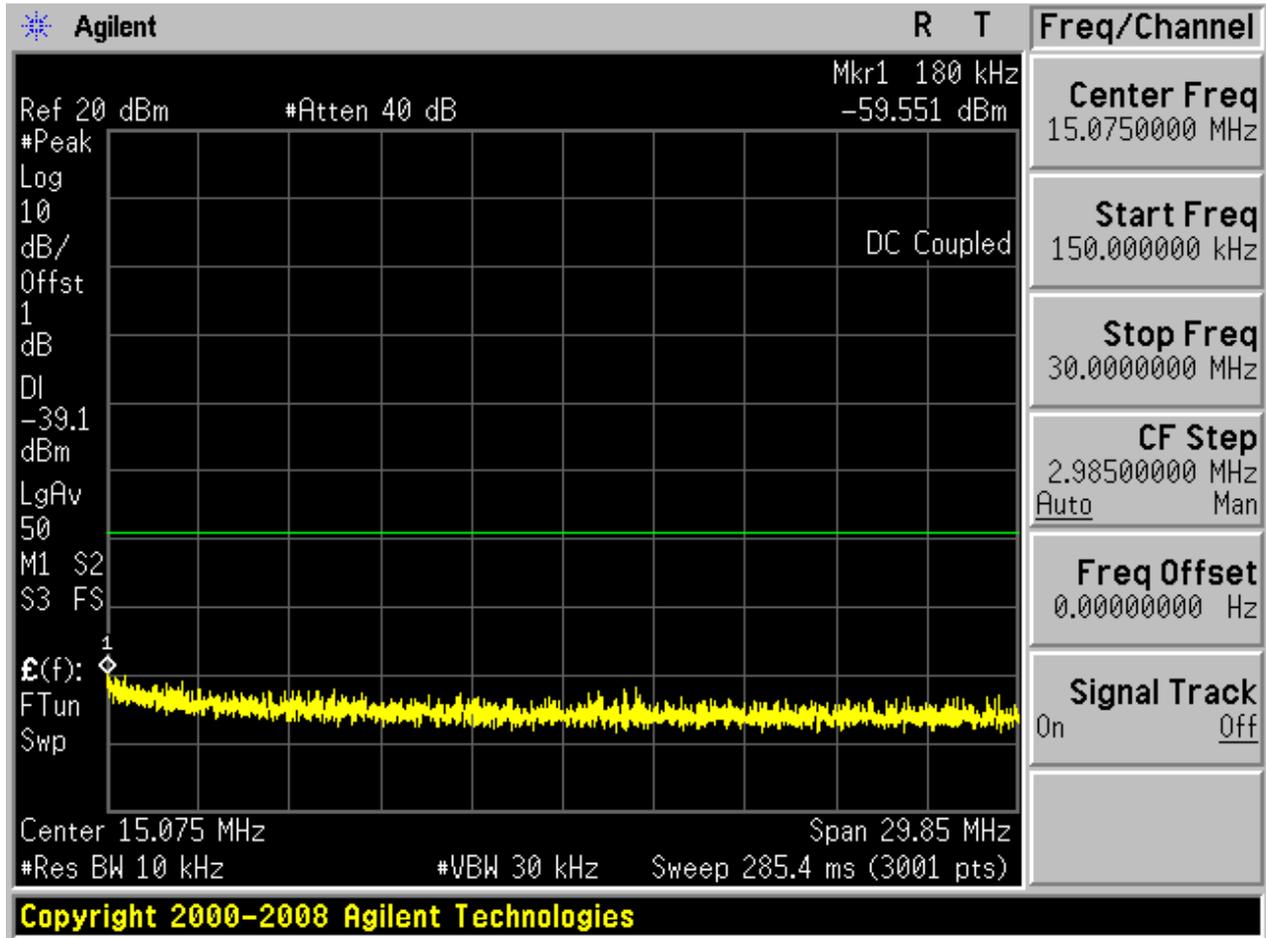
2.24 11N40\_H@Ant 2

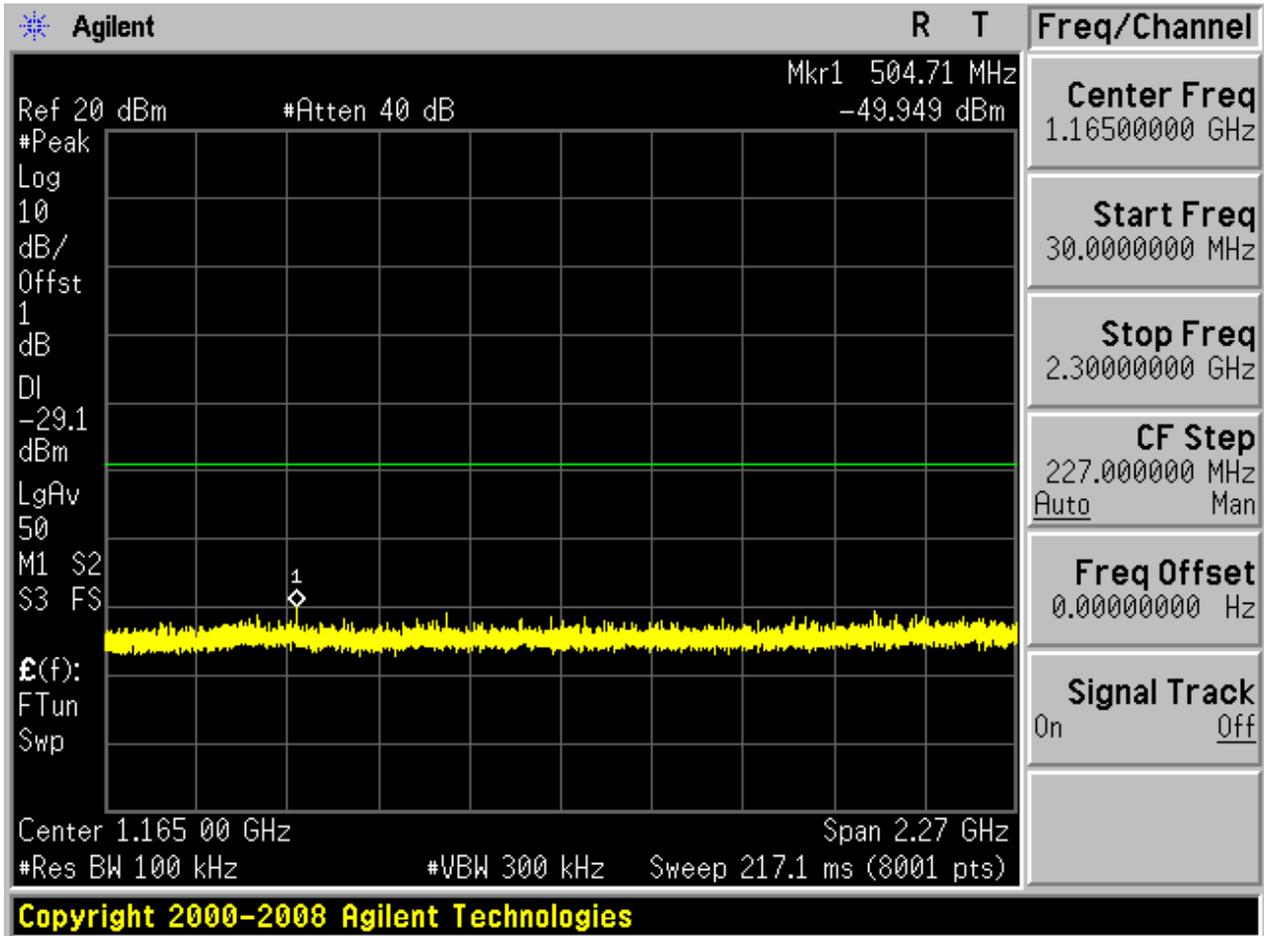
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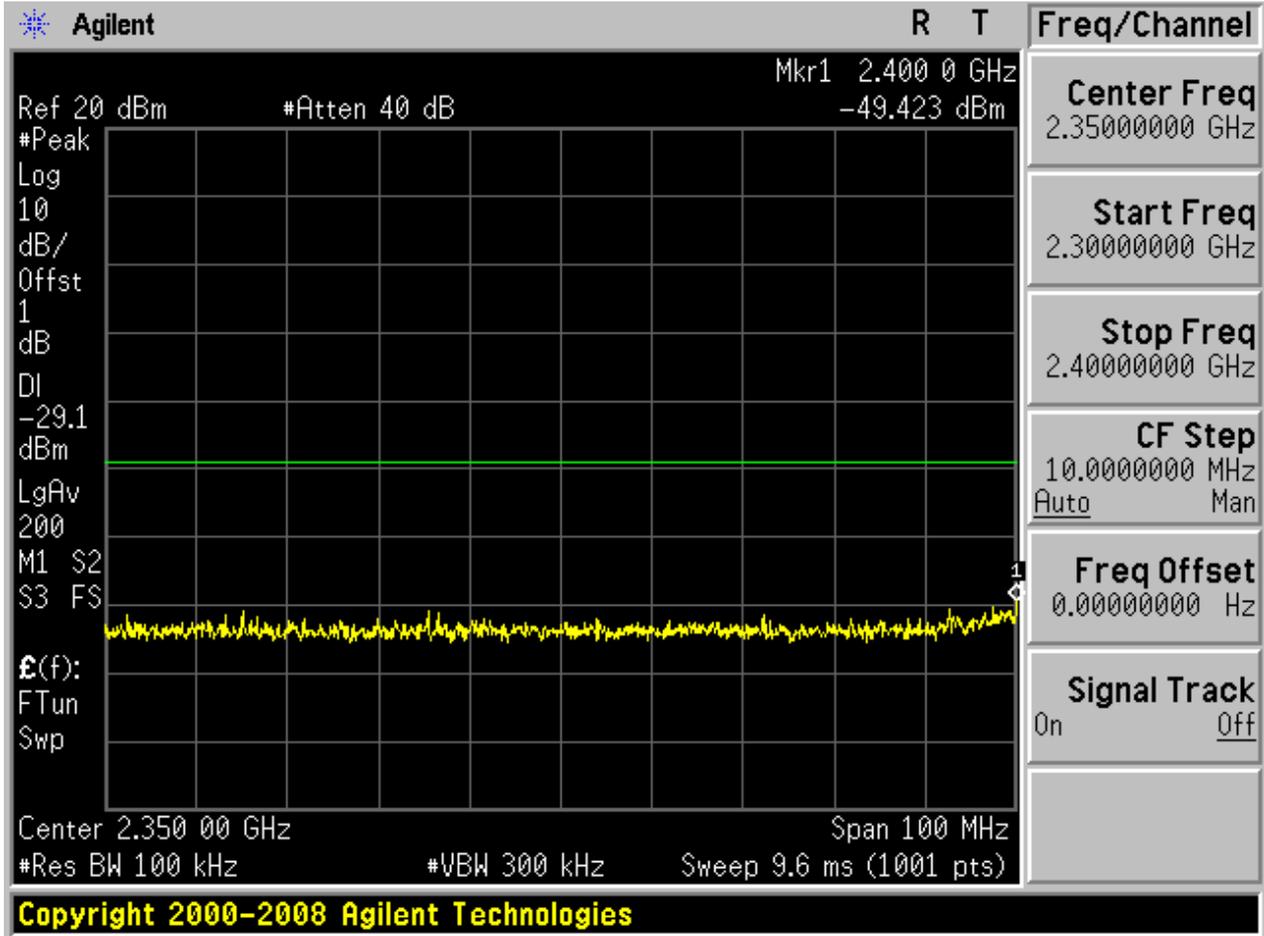


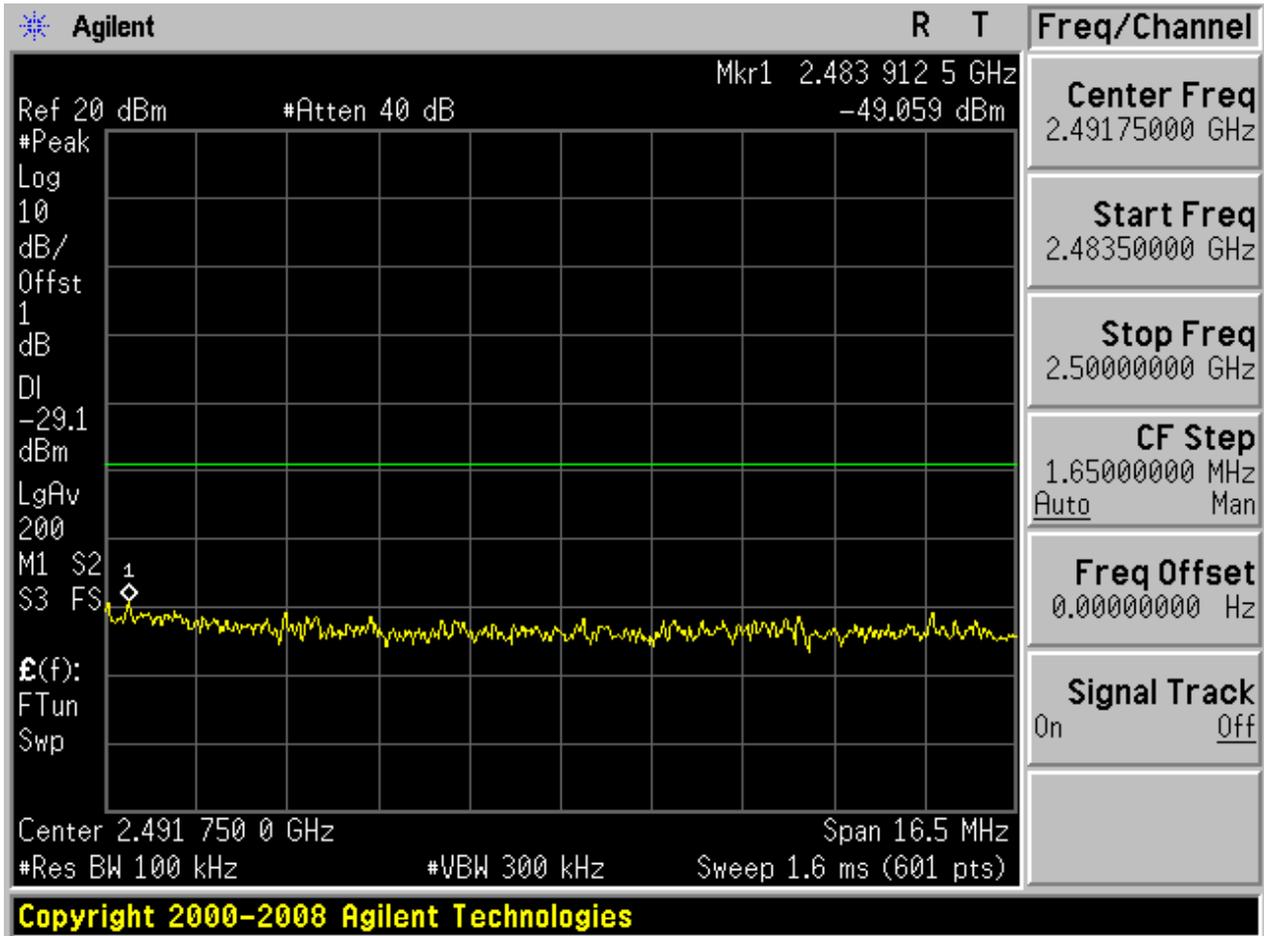
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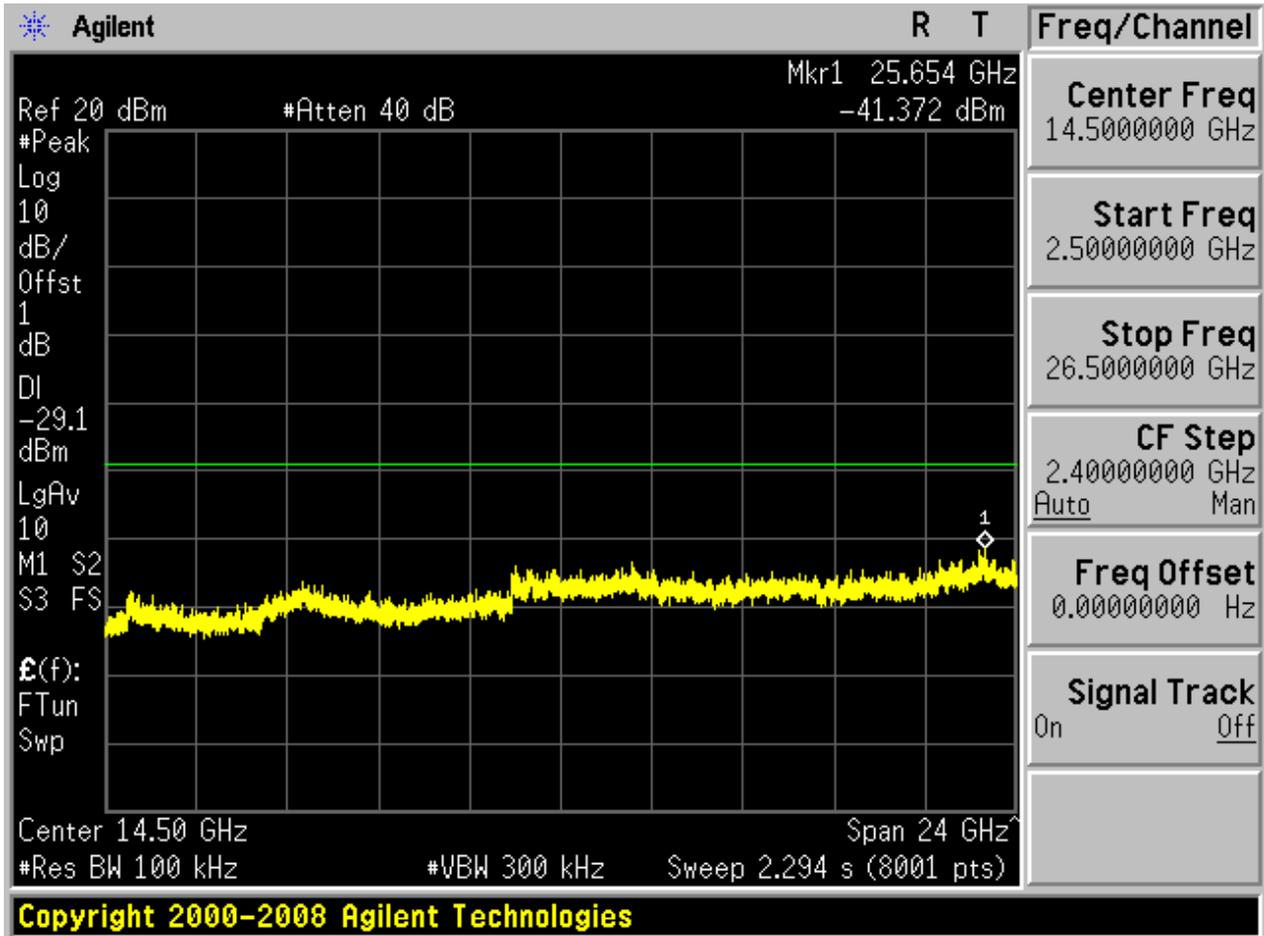








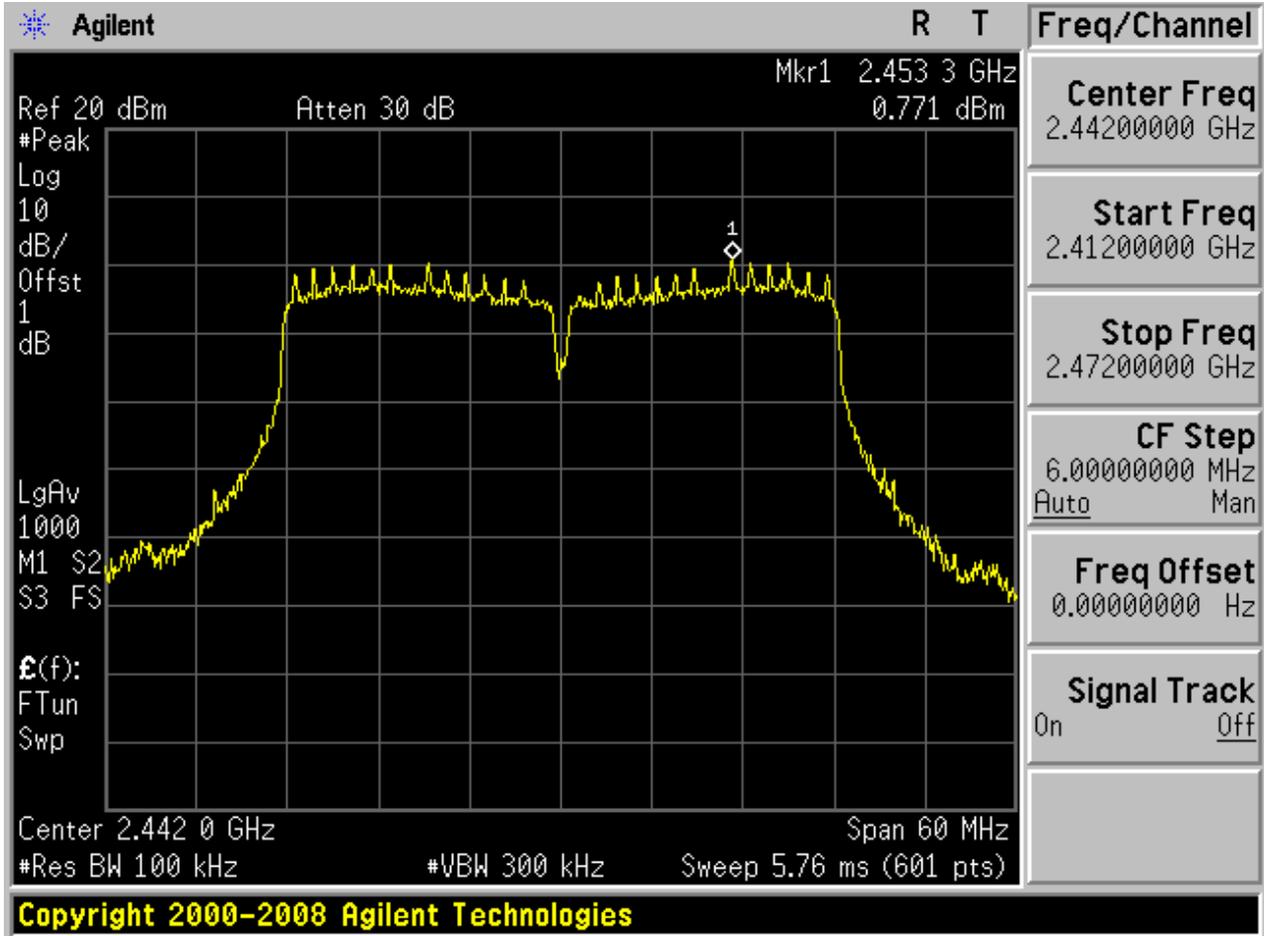






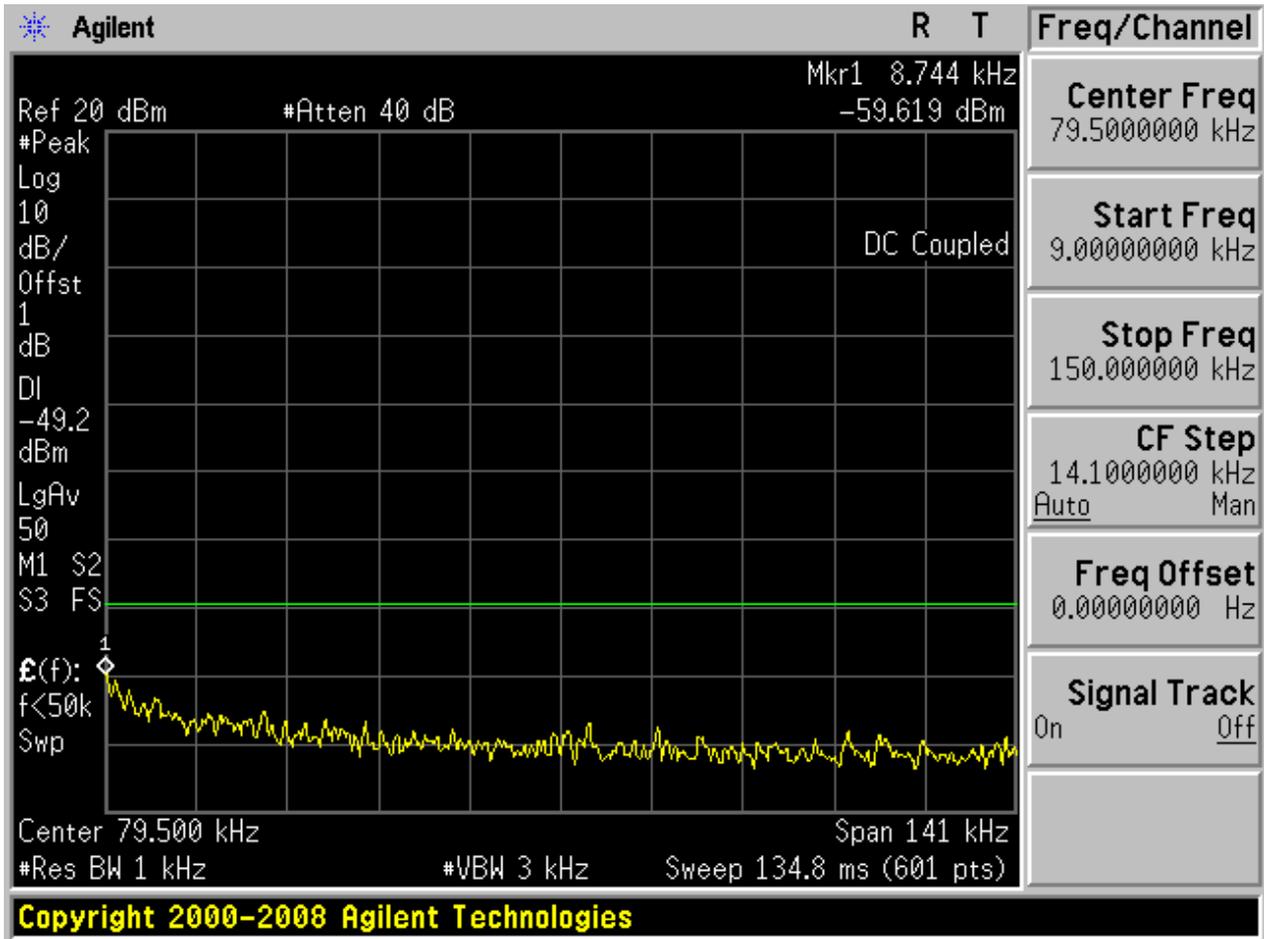
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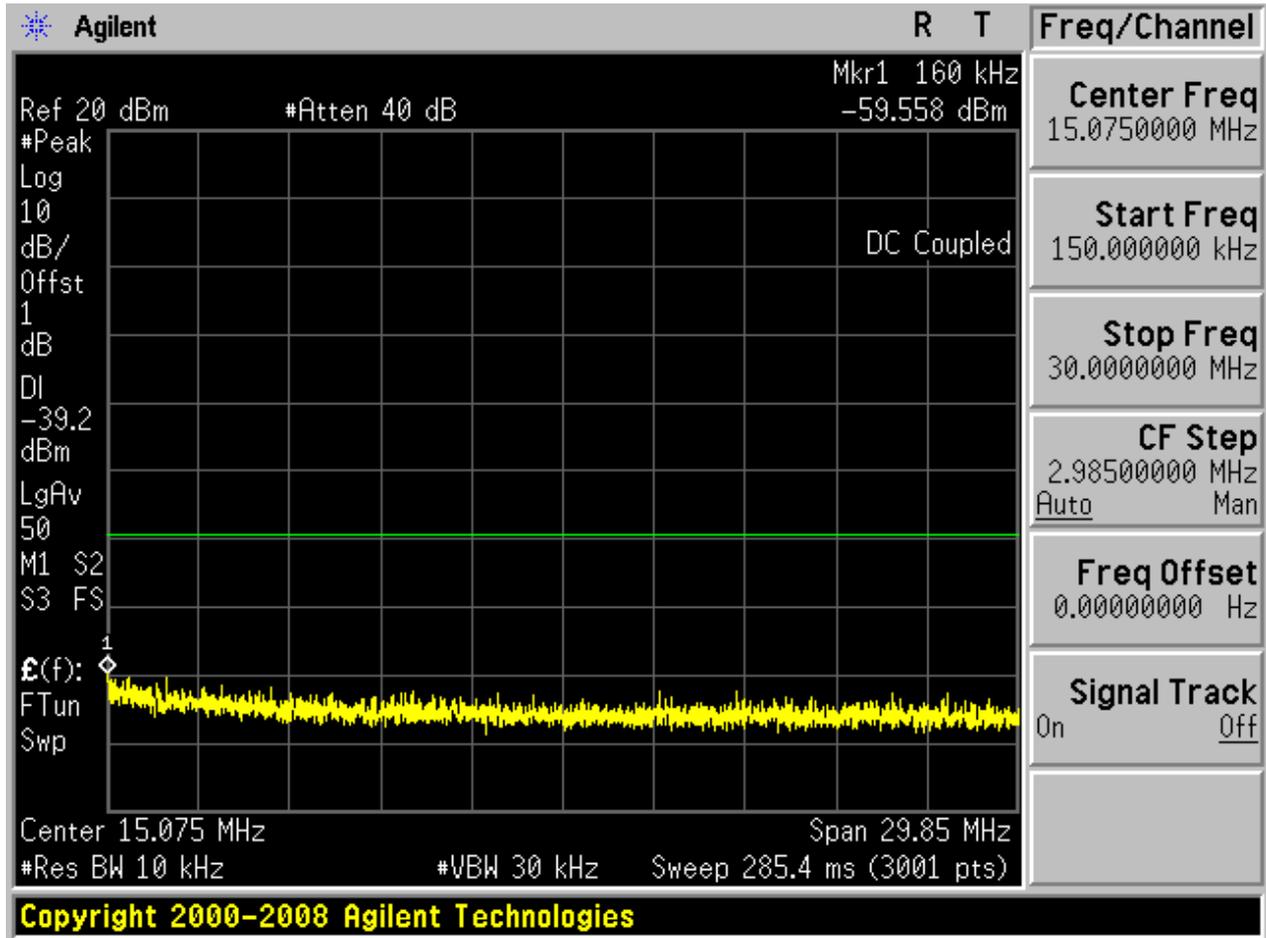
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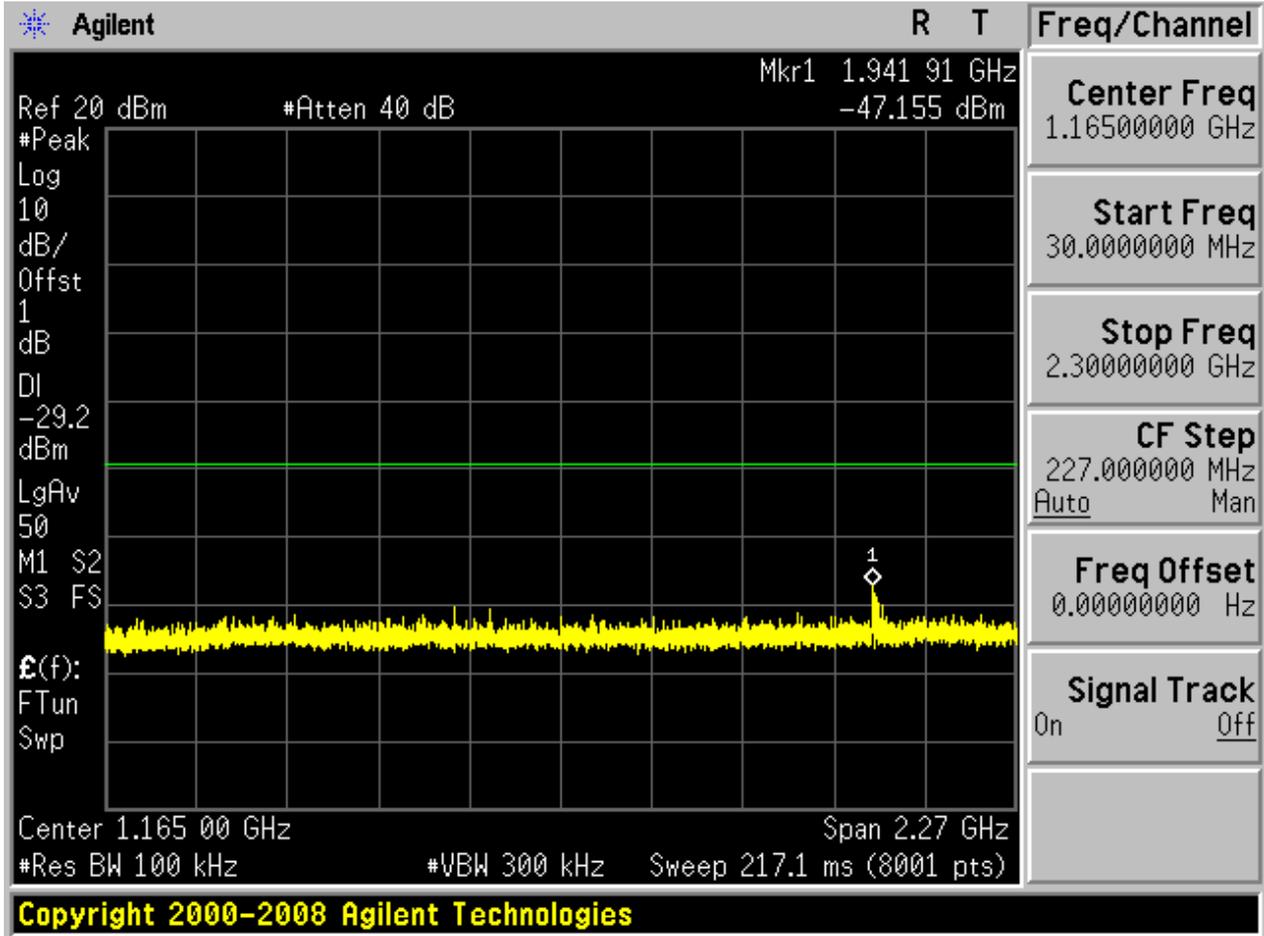


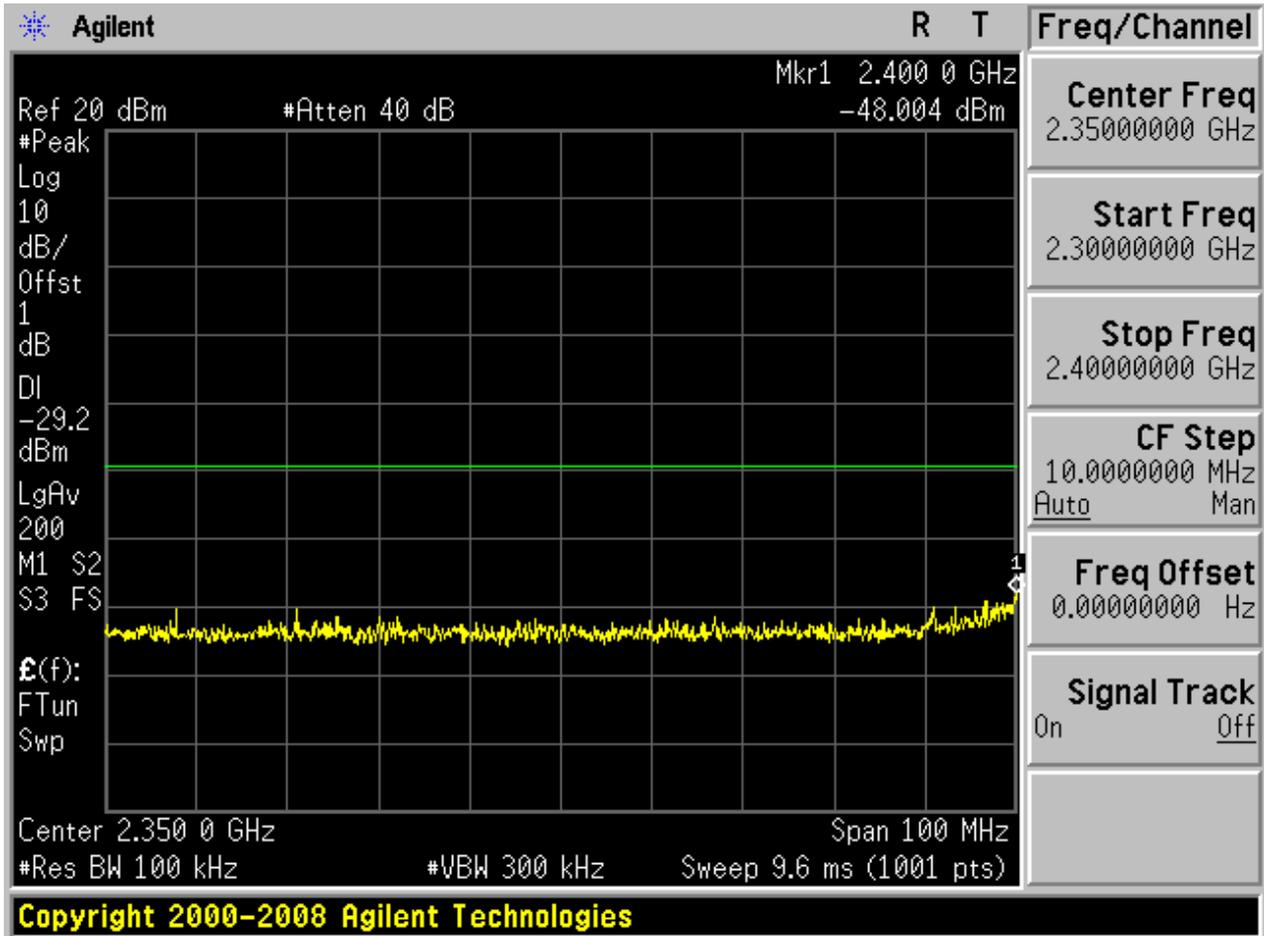


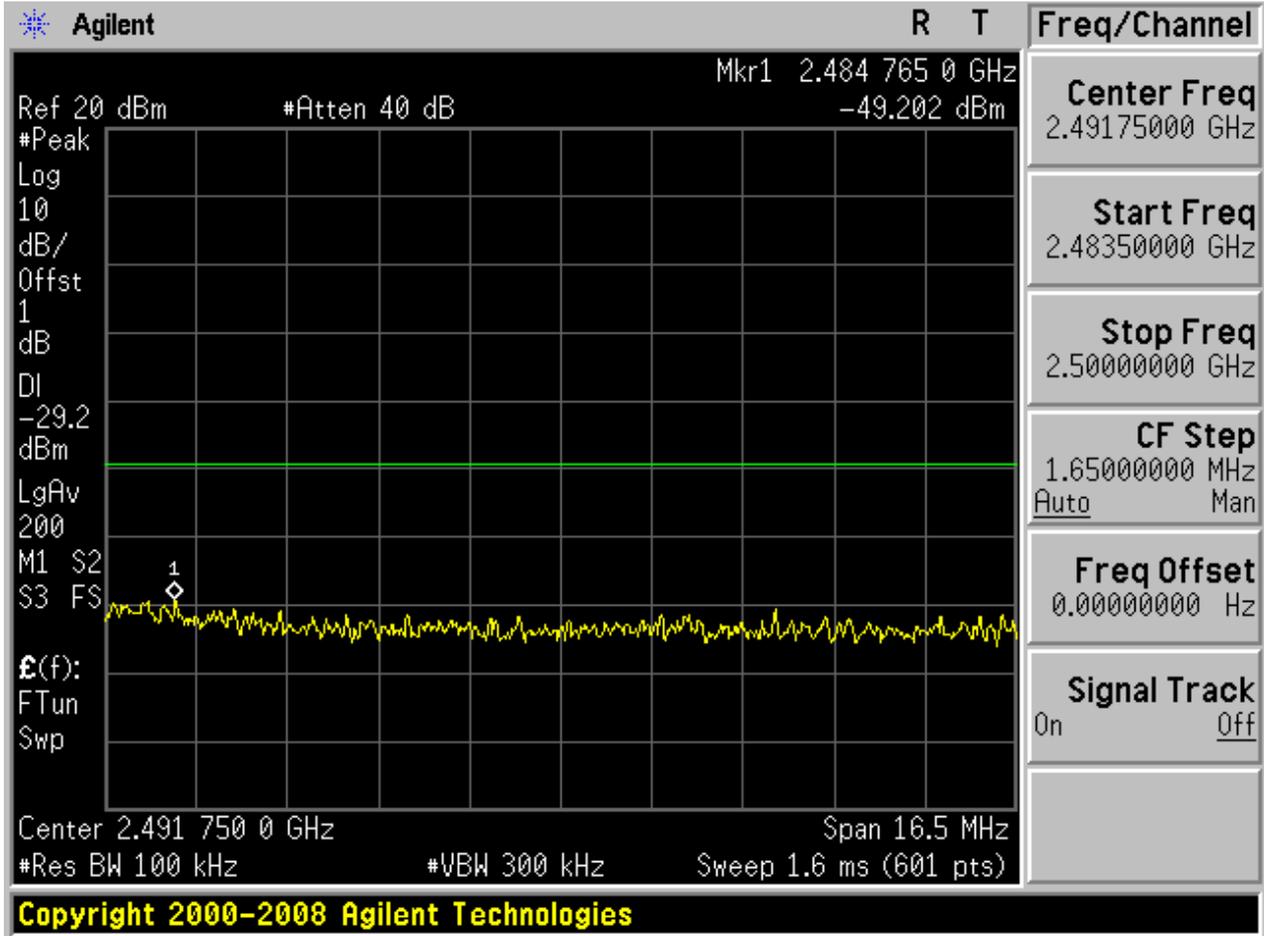
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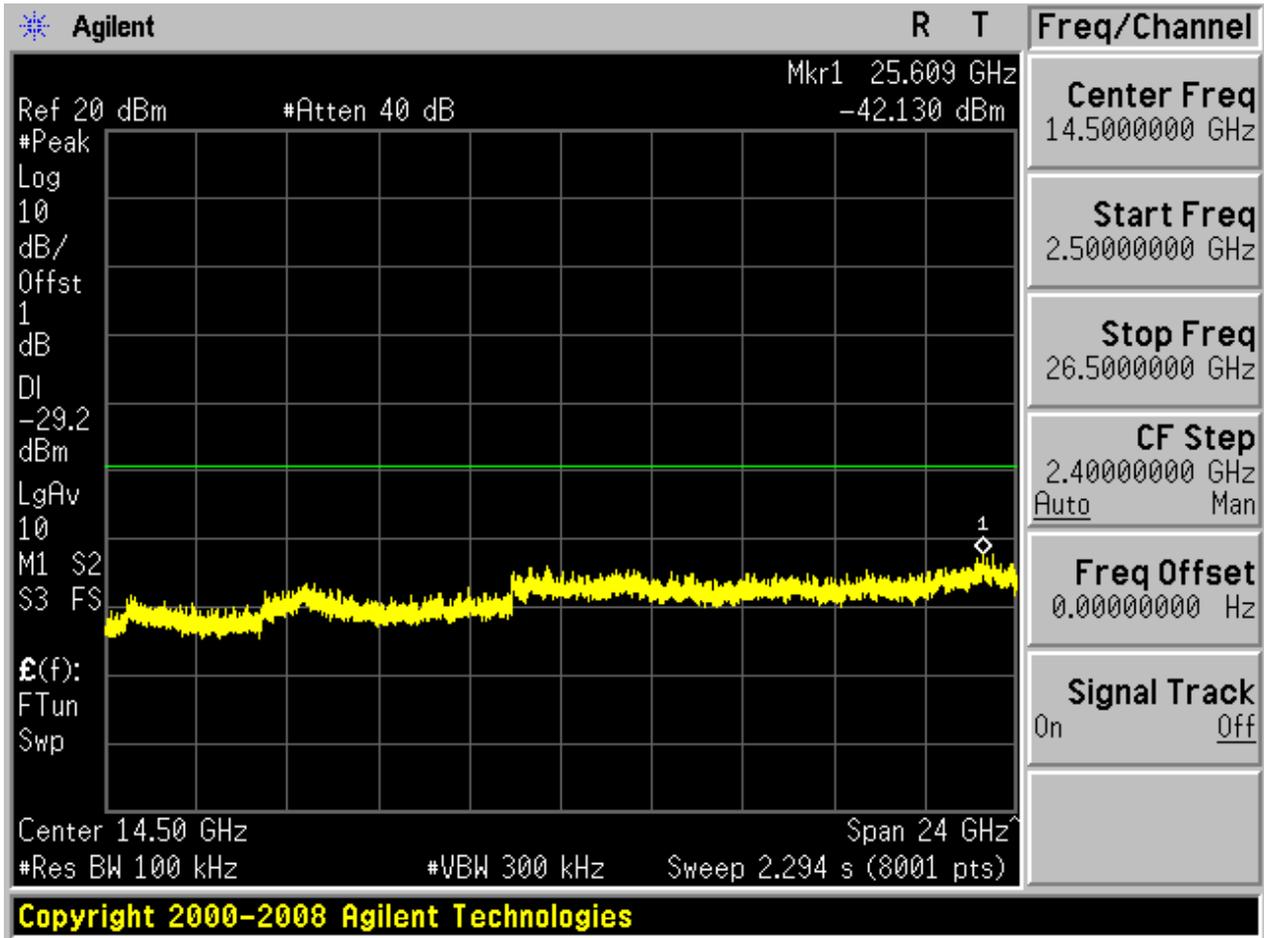








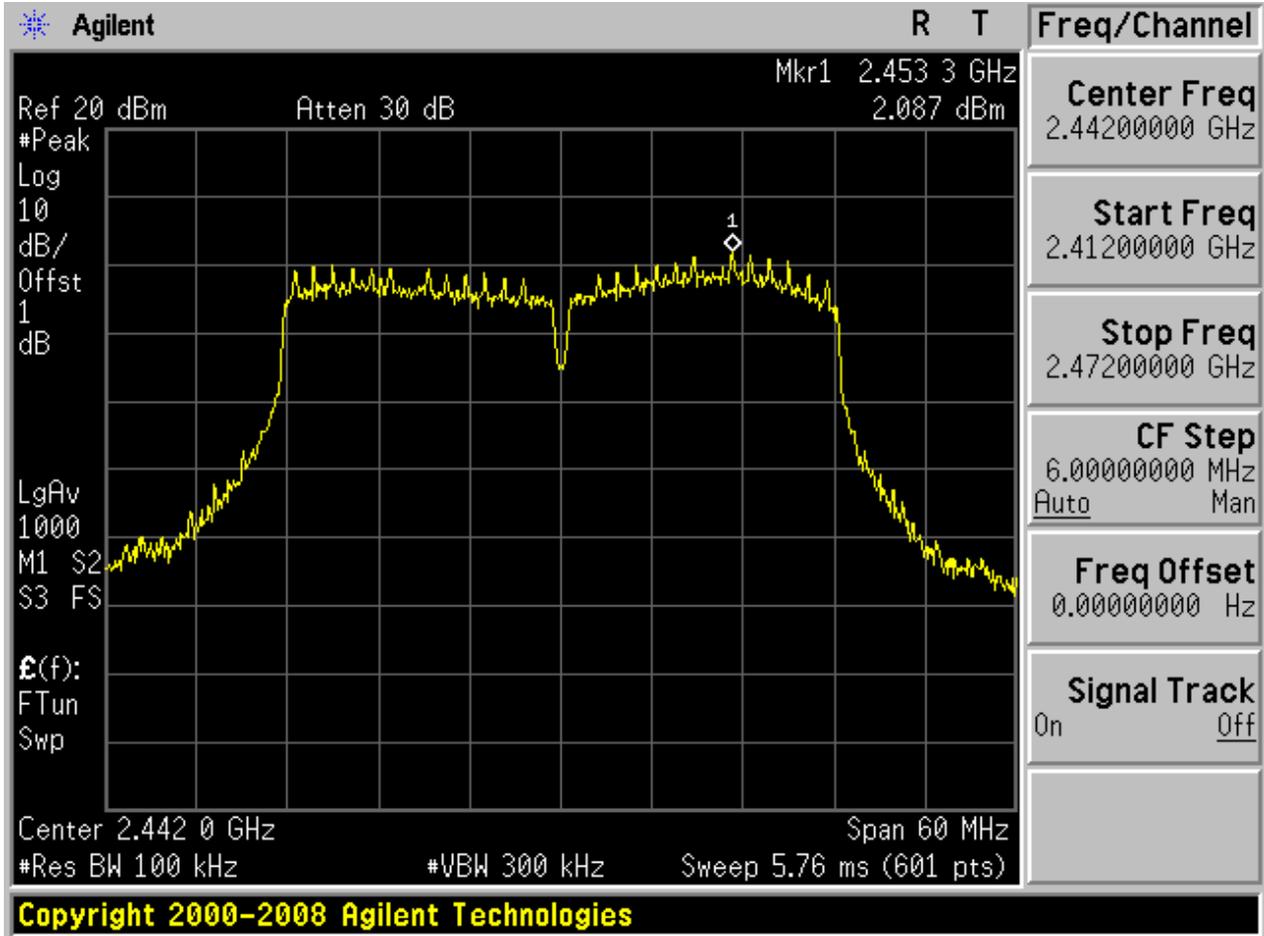






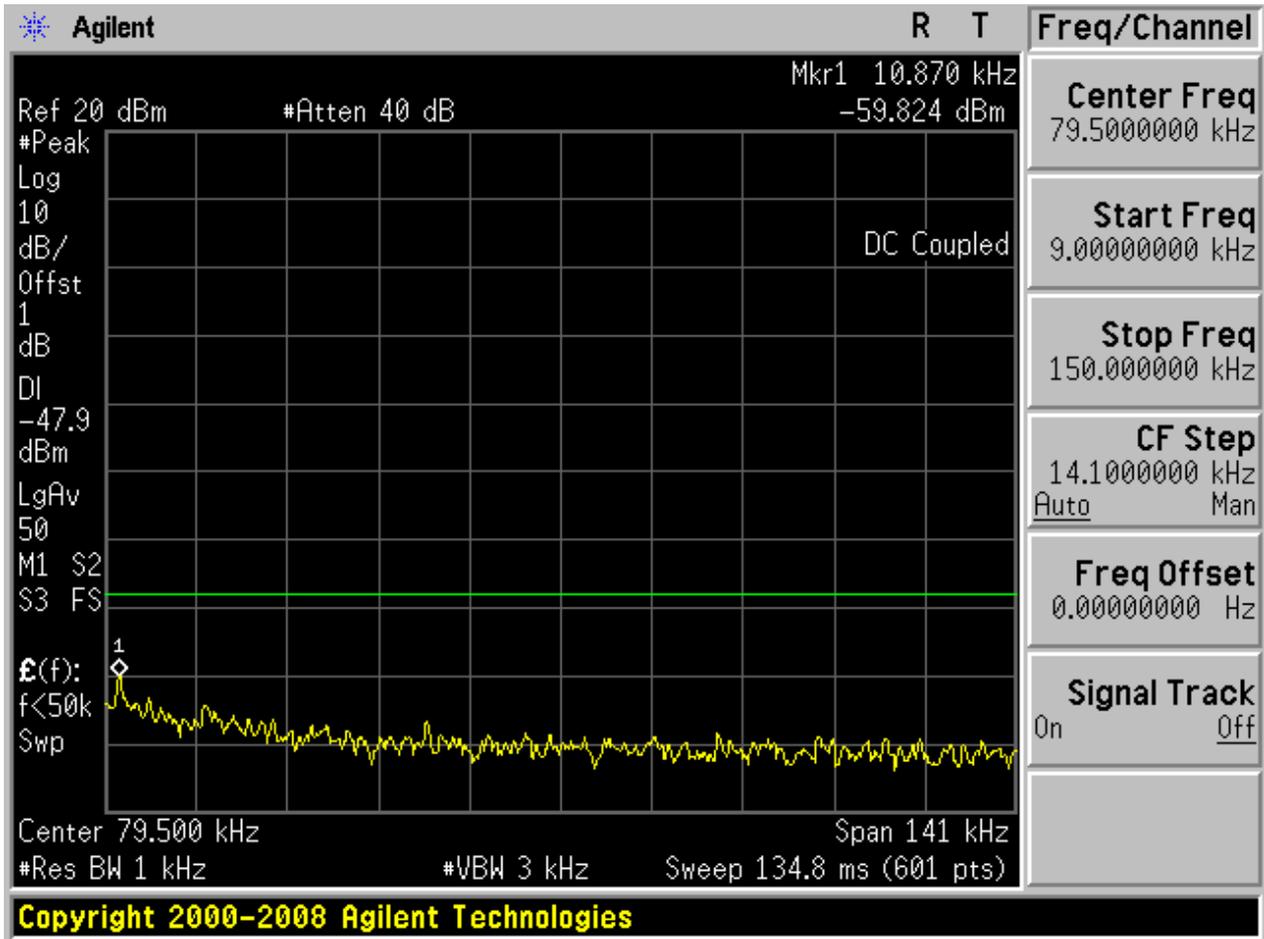
2.32 11N40m\_L@Ant 2

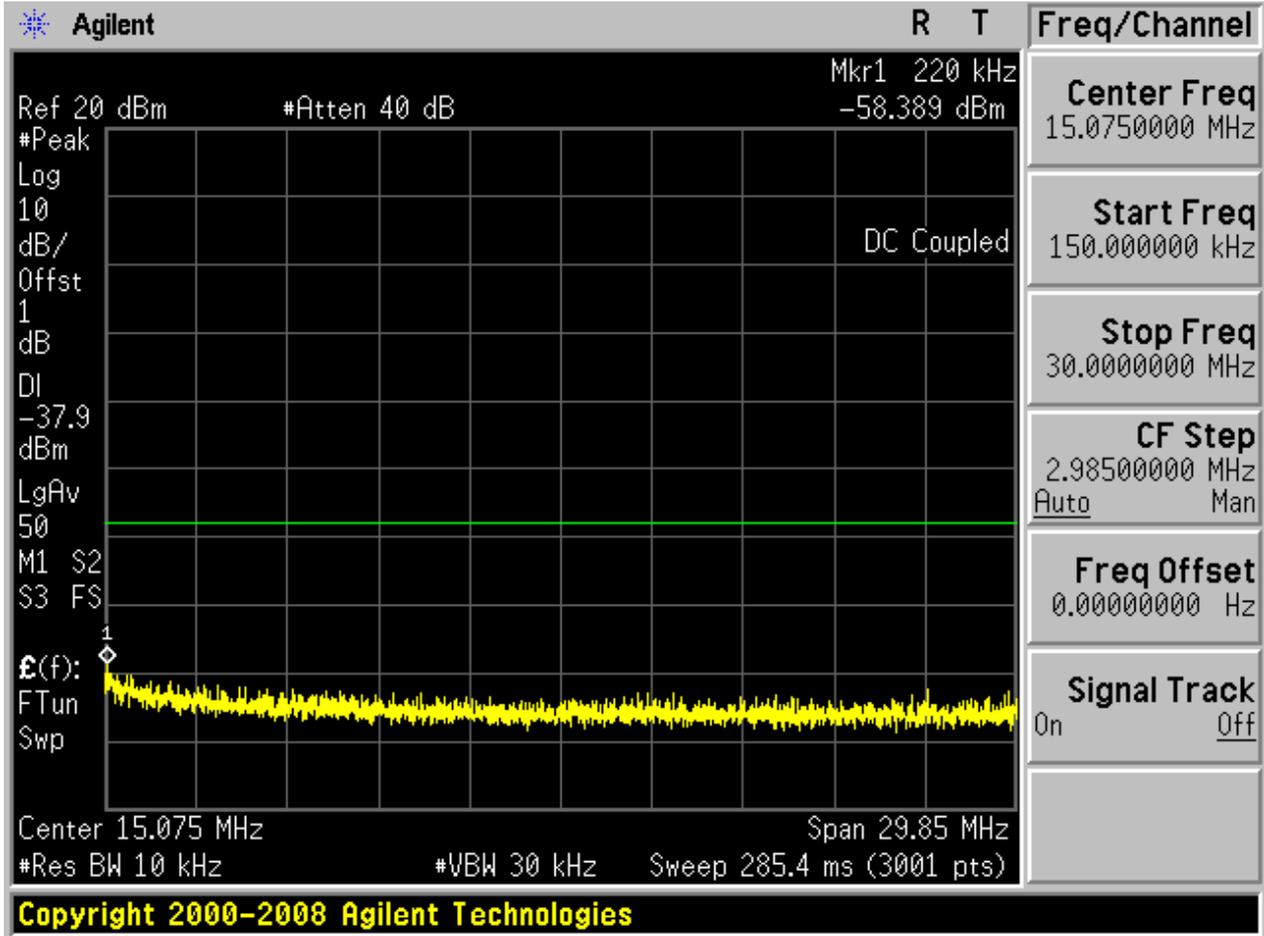
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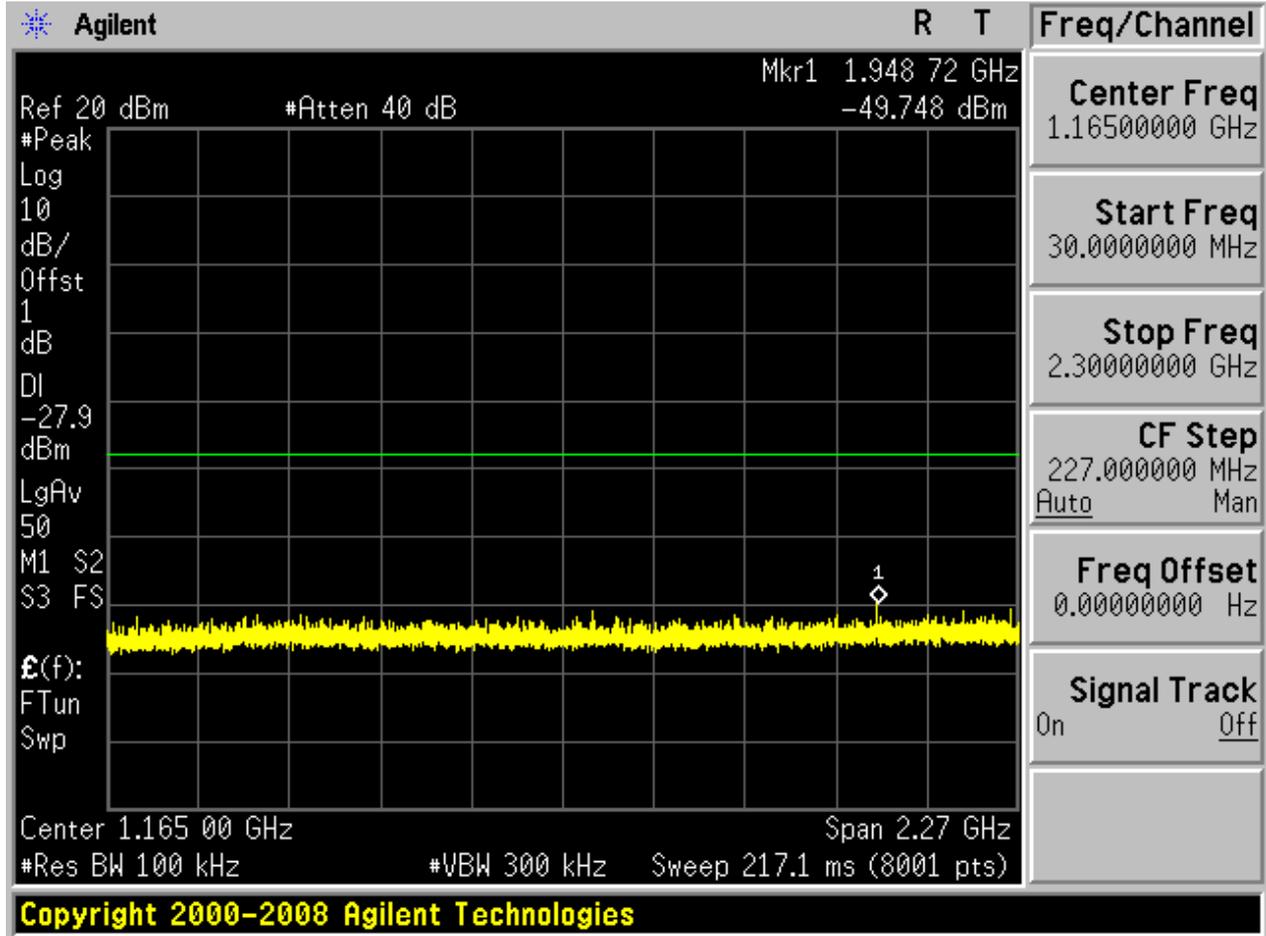




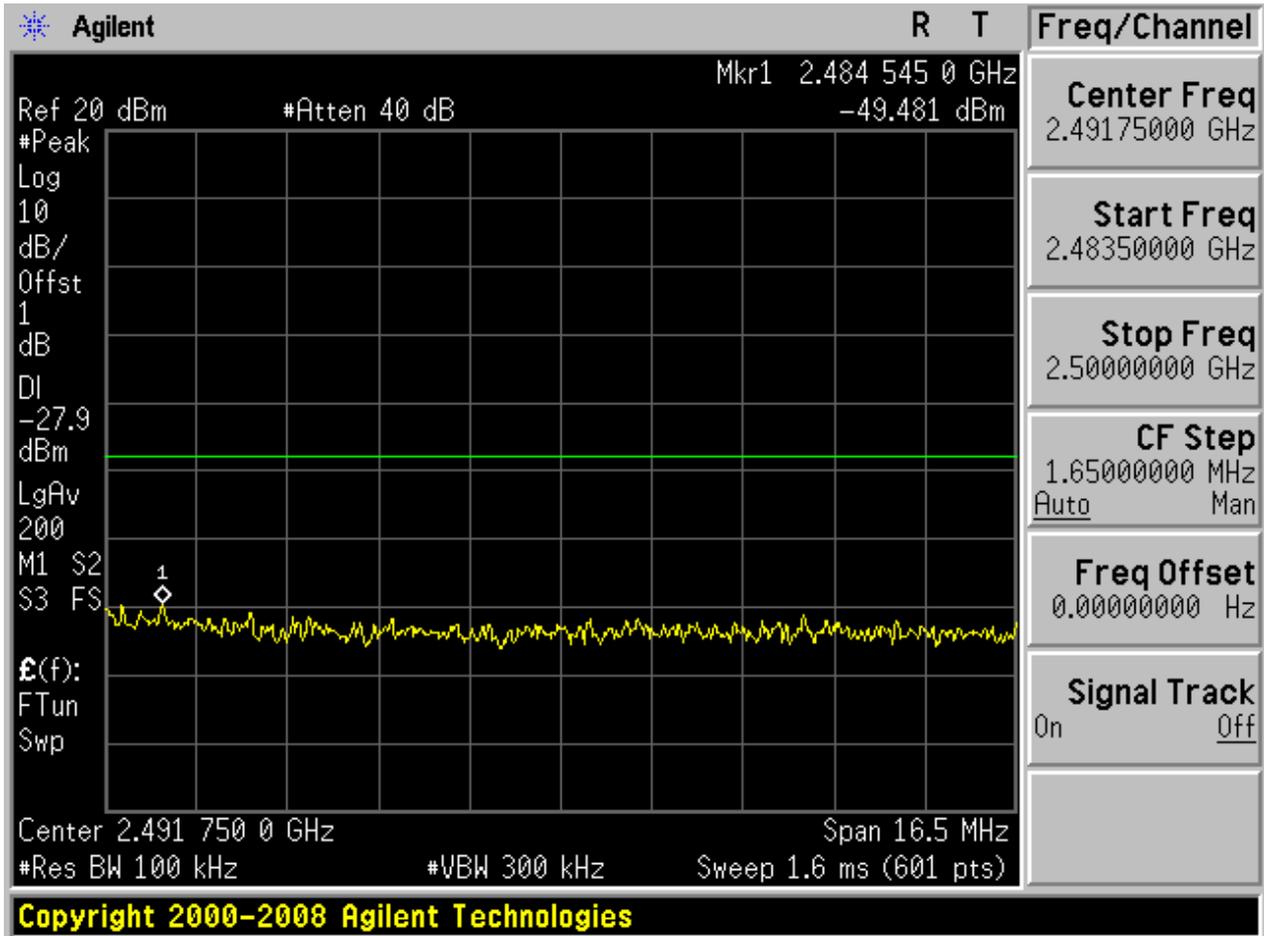
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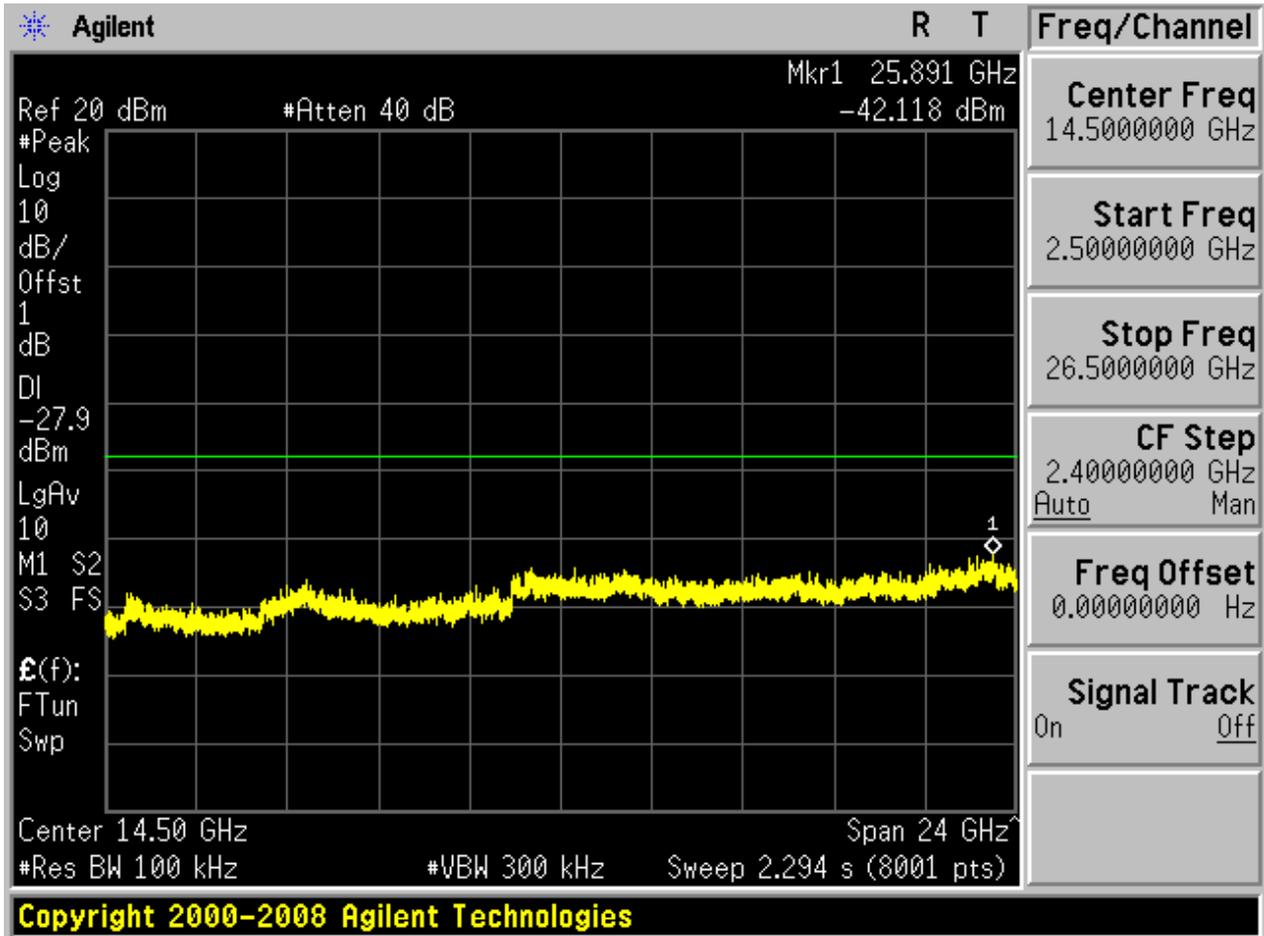








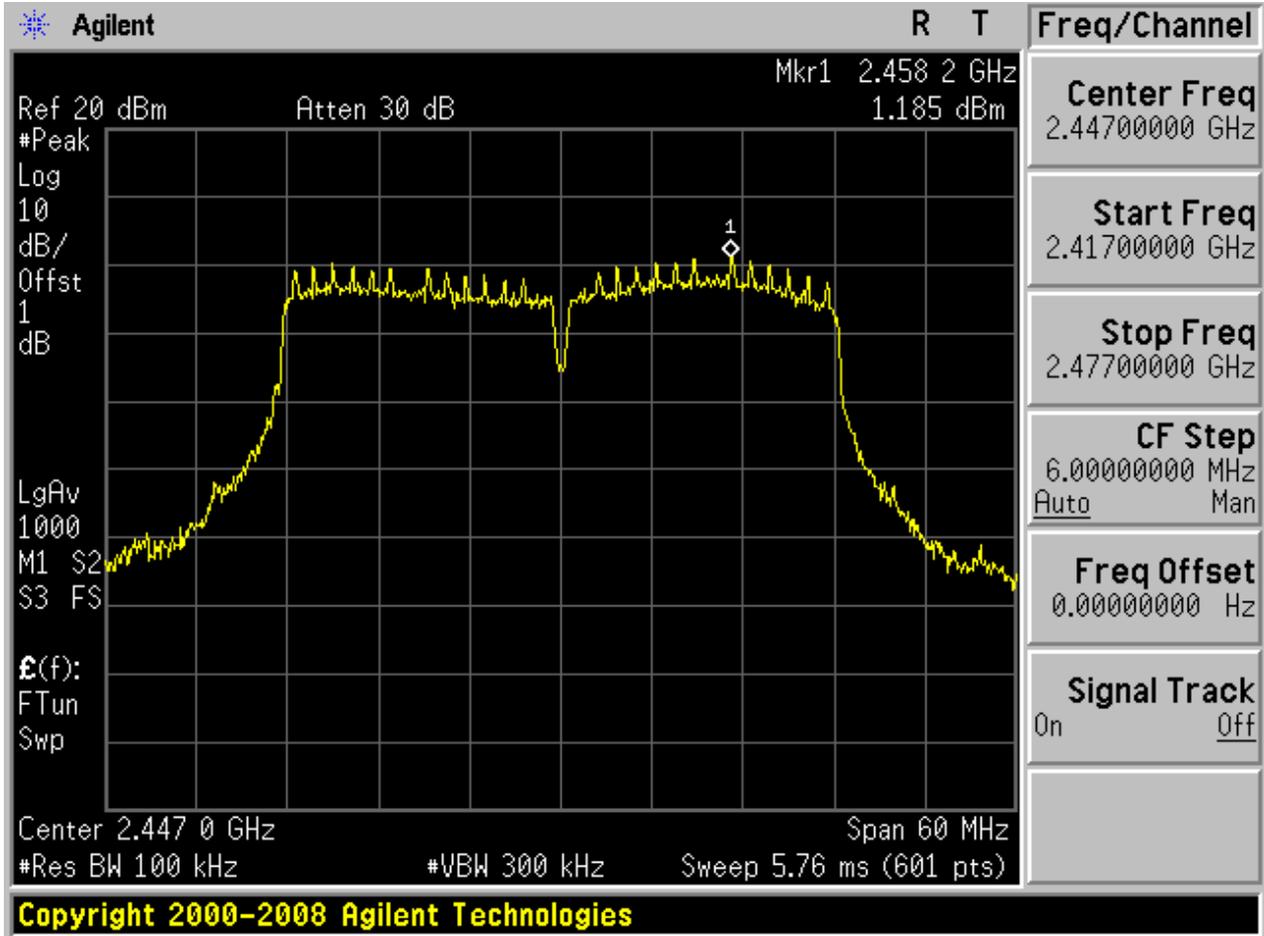






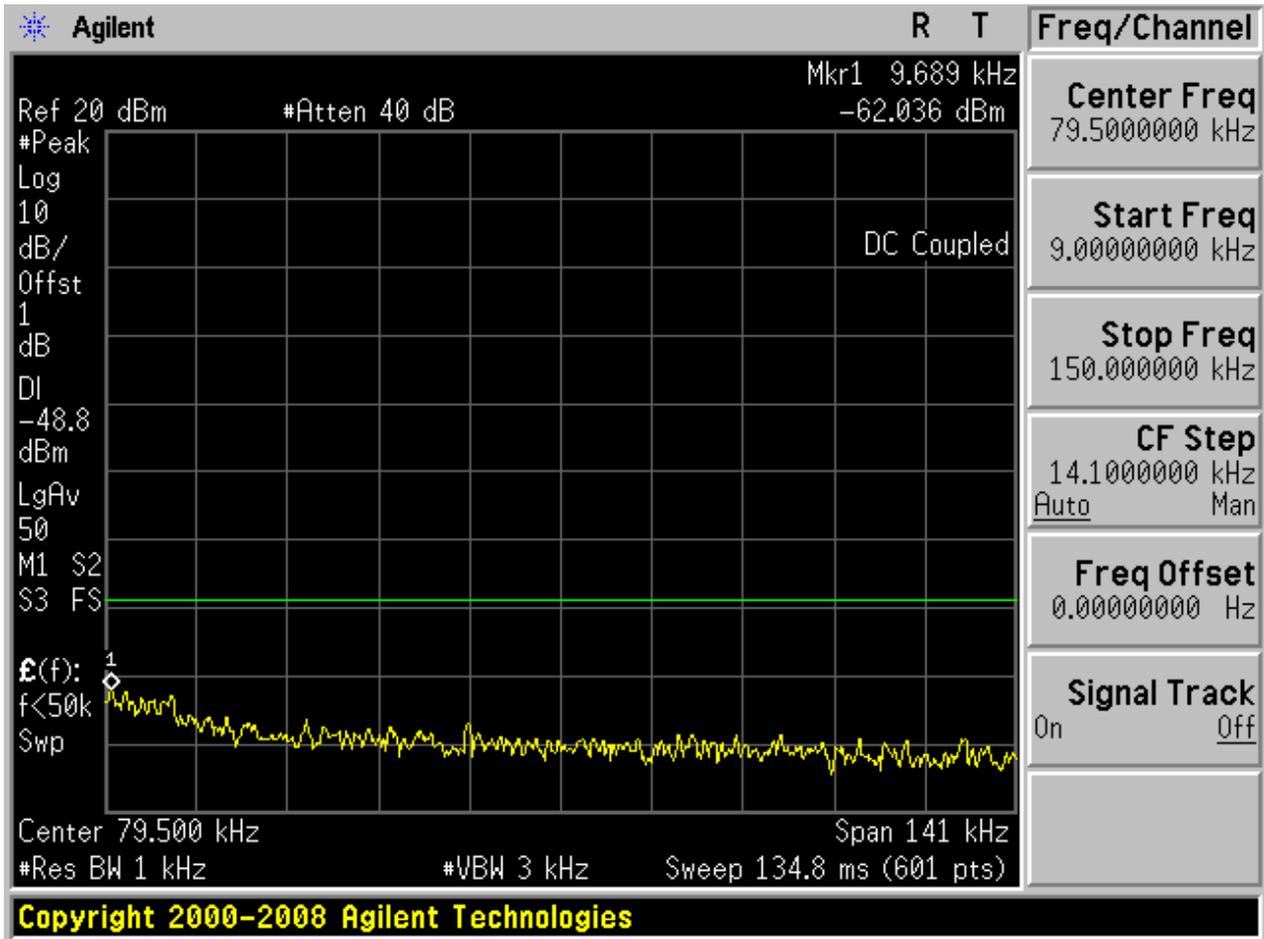
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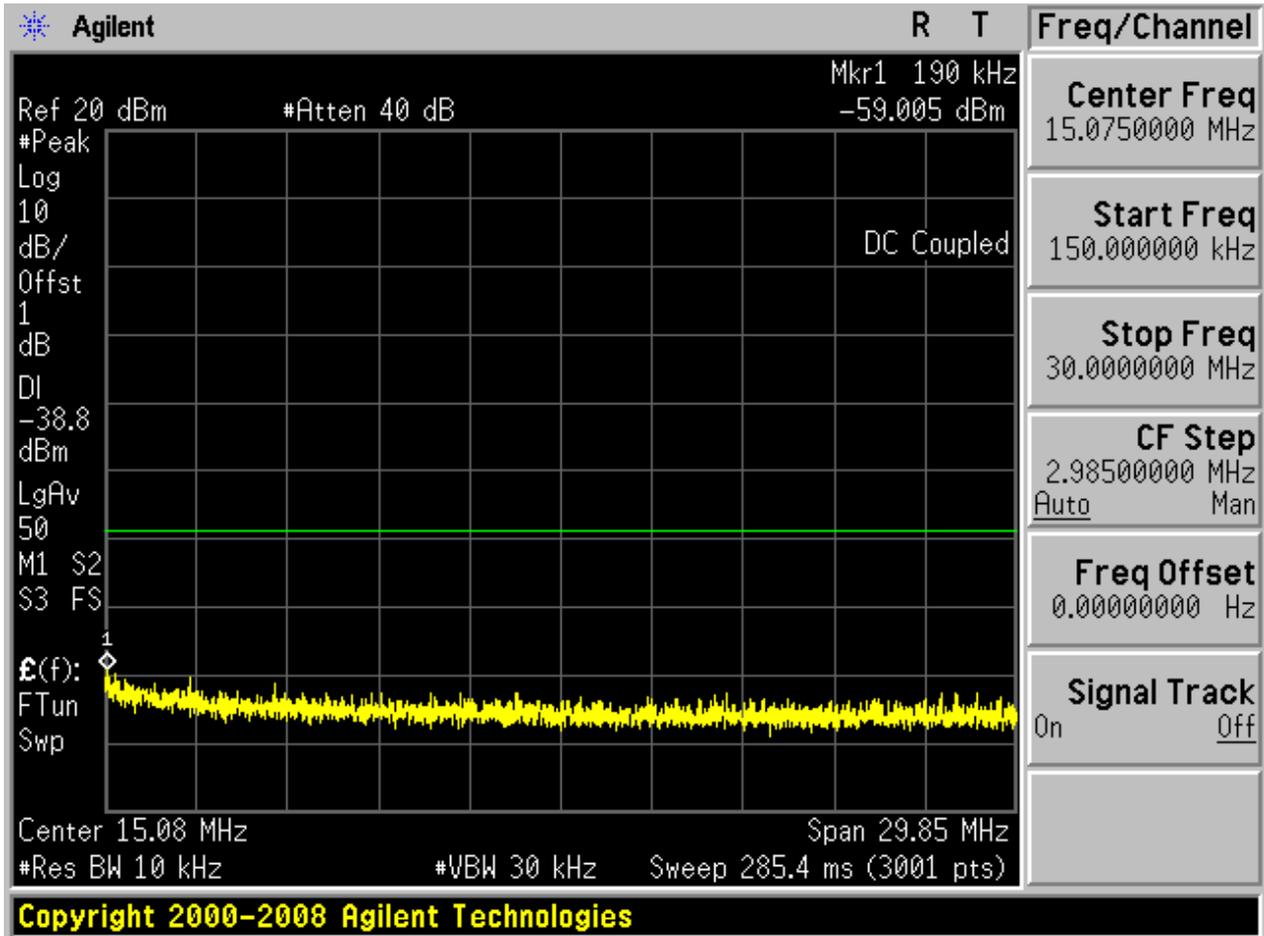
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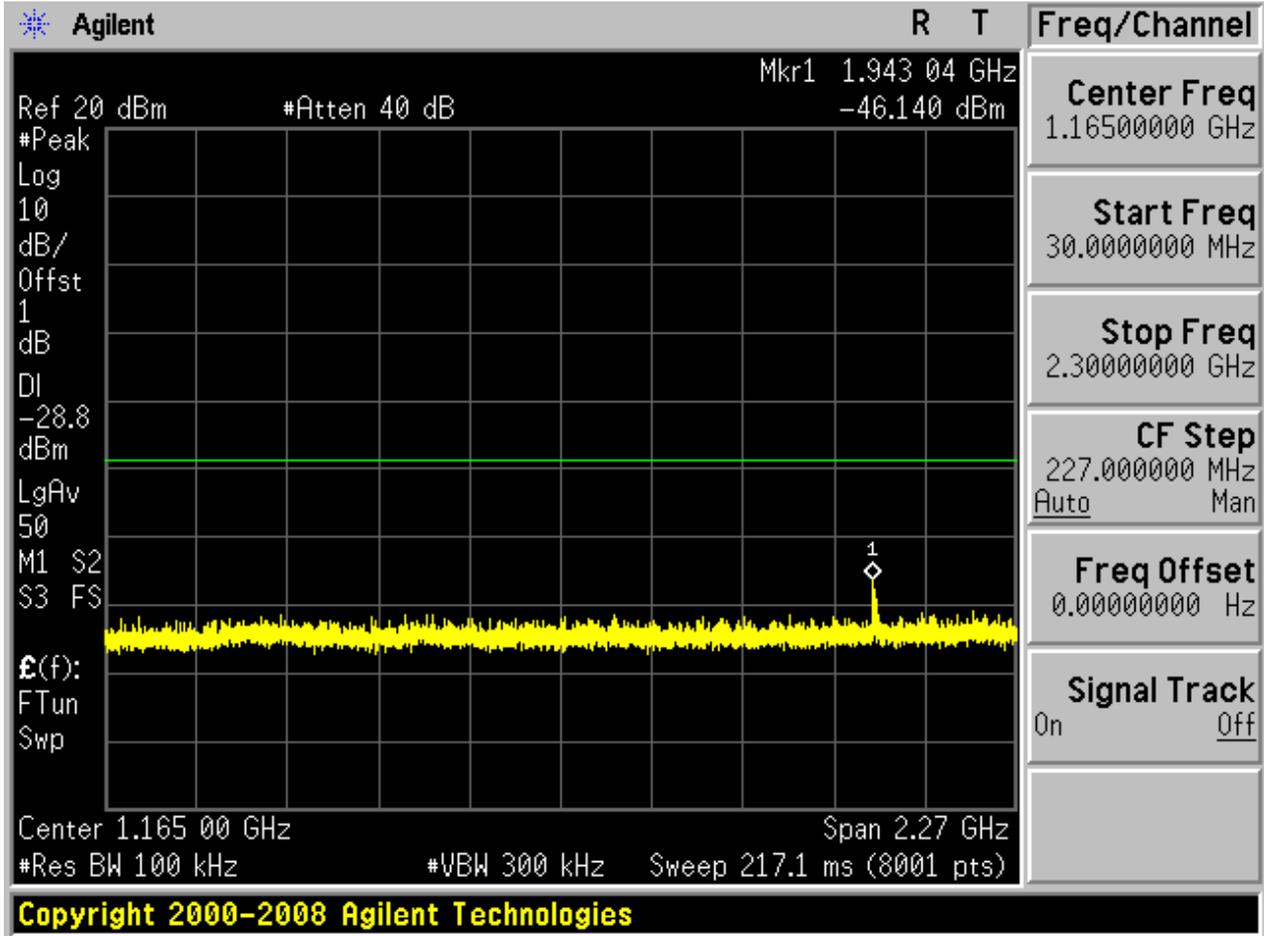


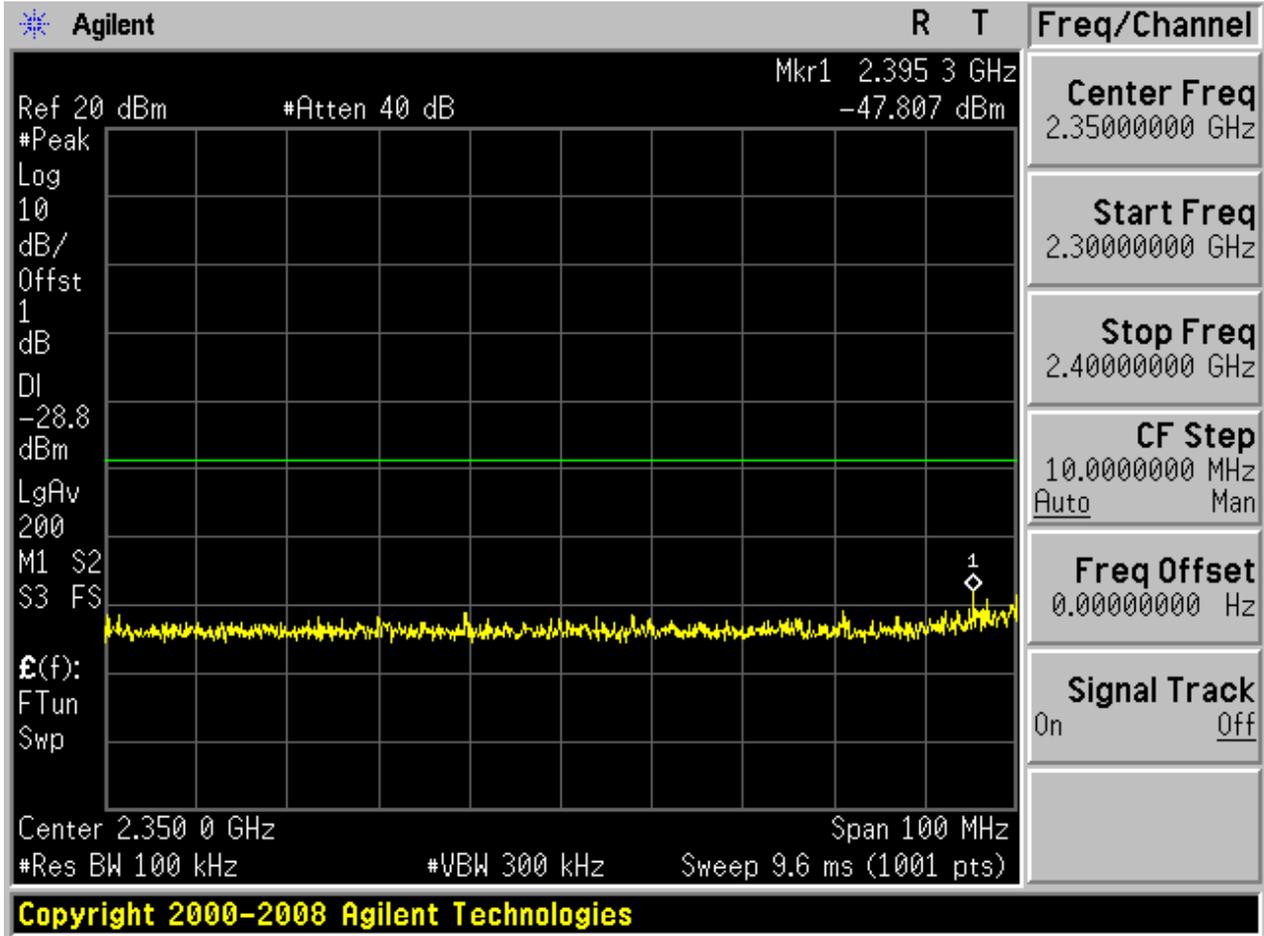


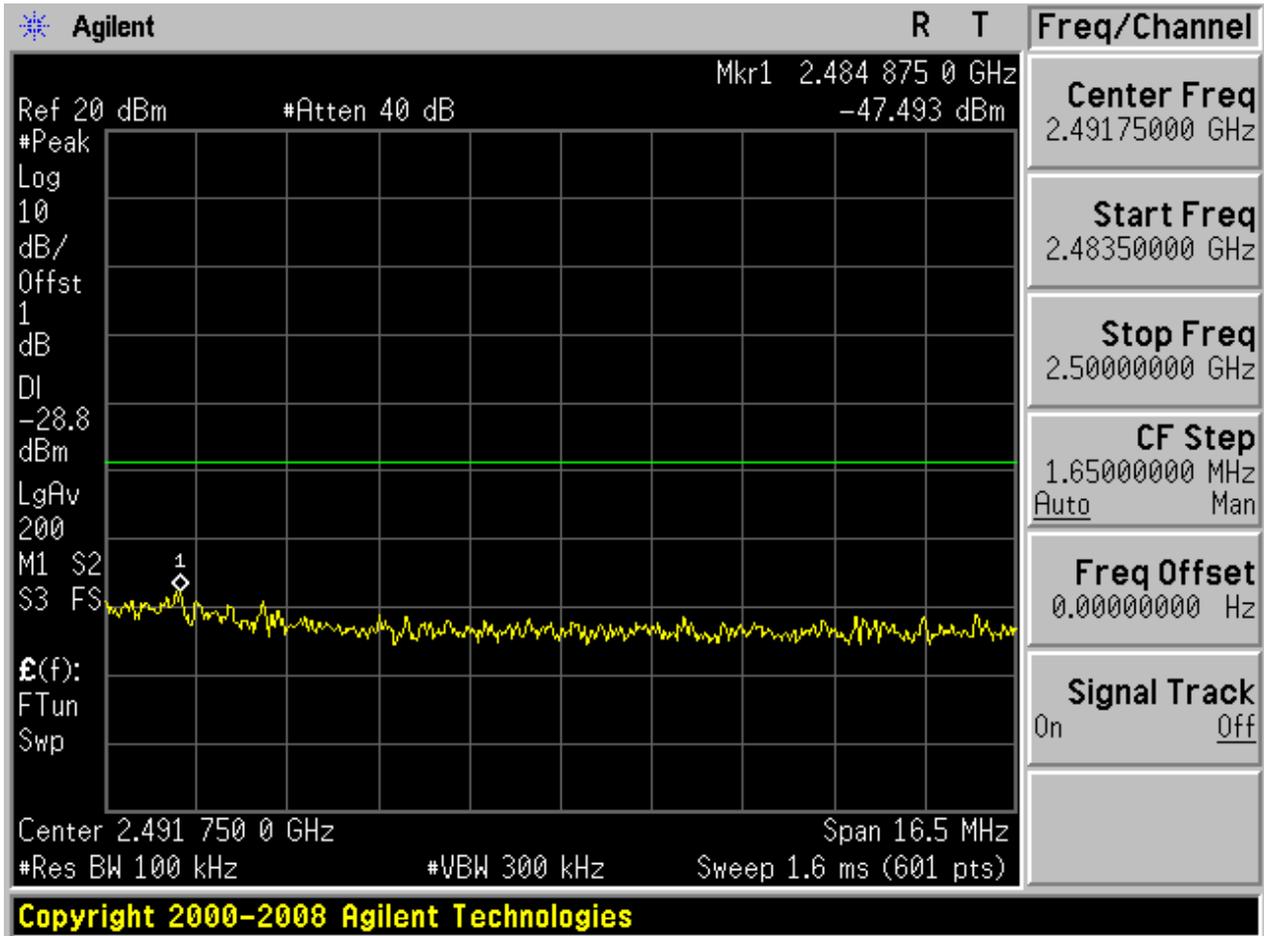
Puw:

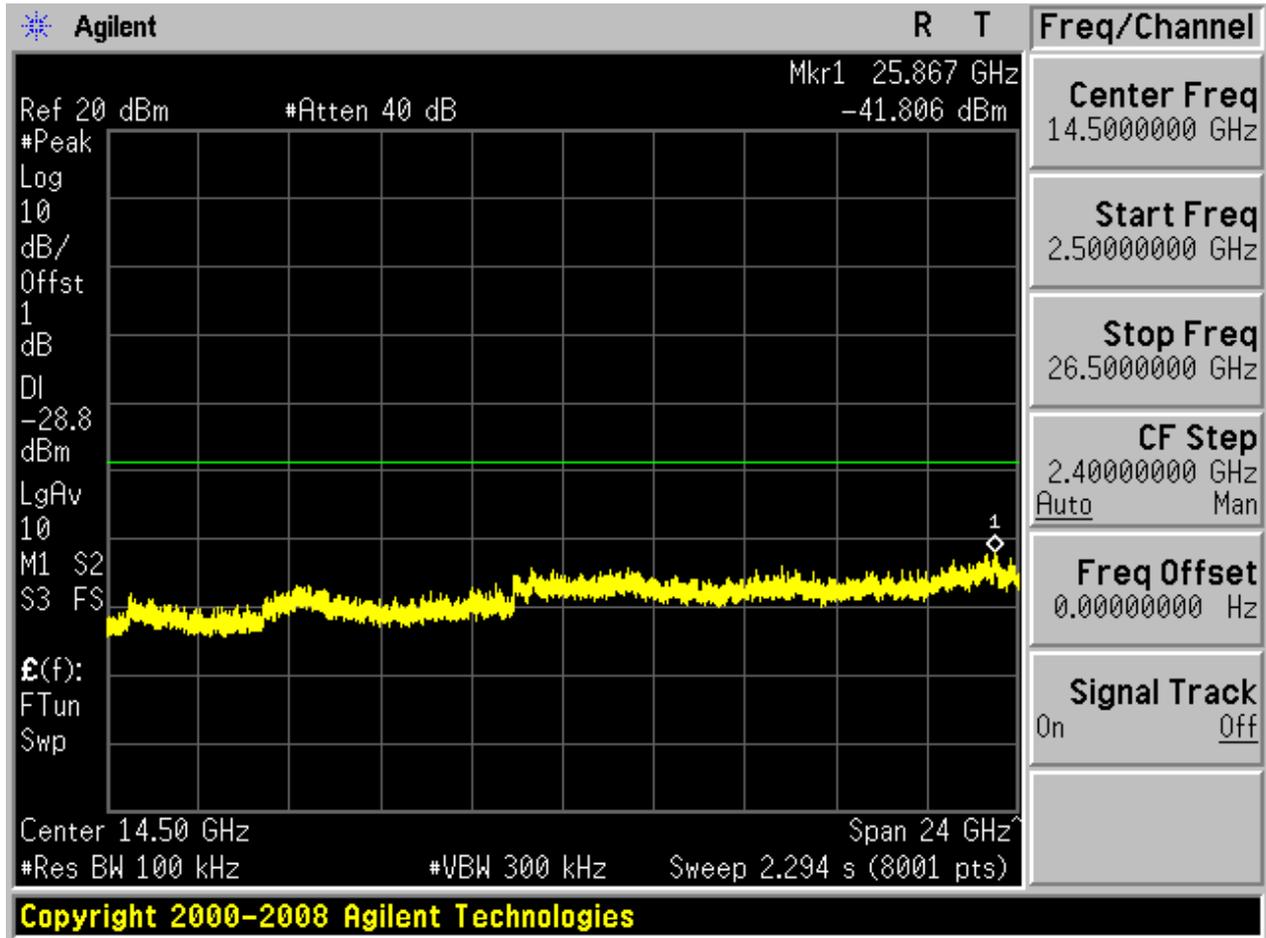








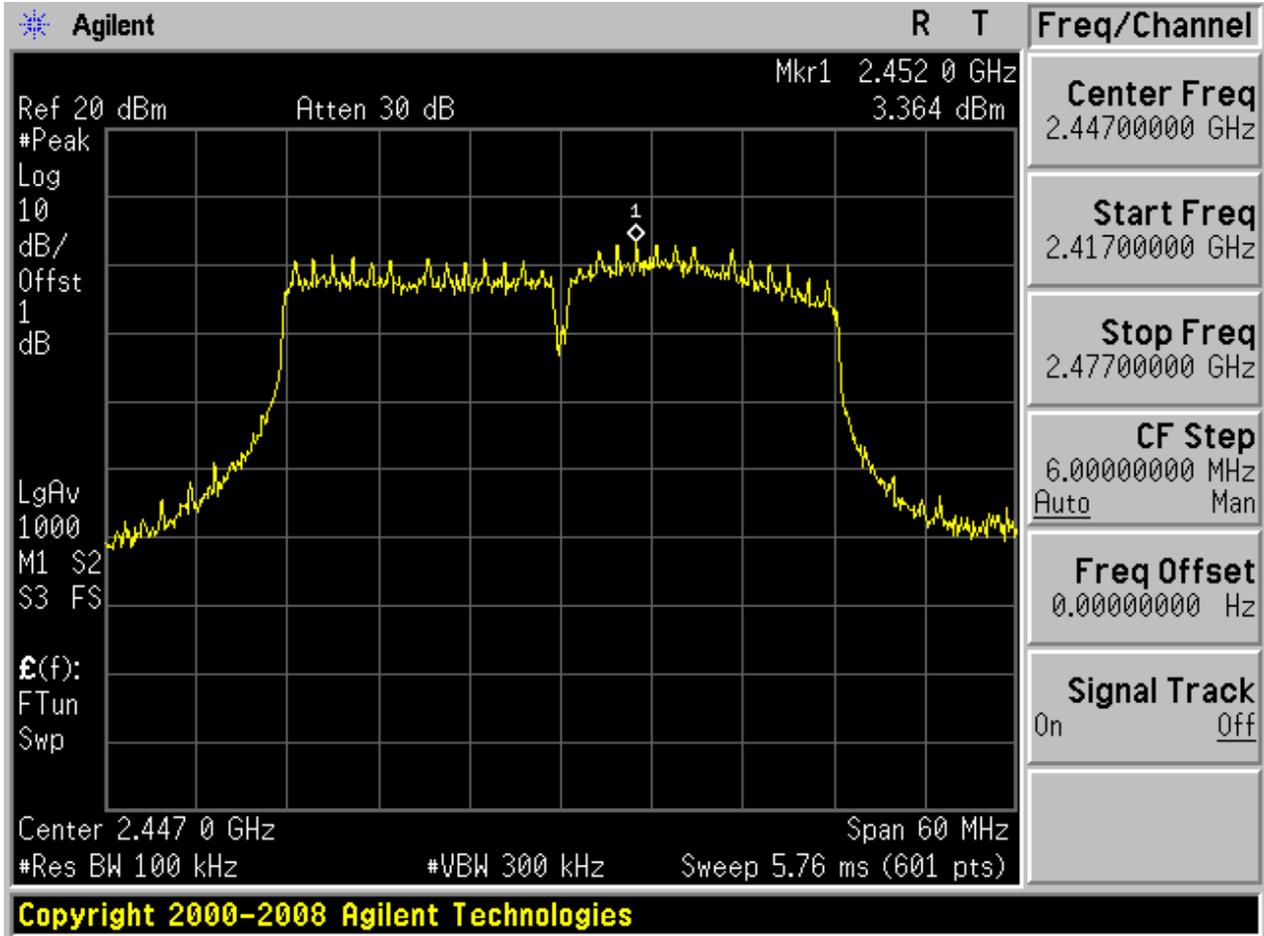




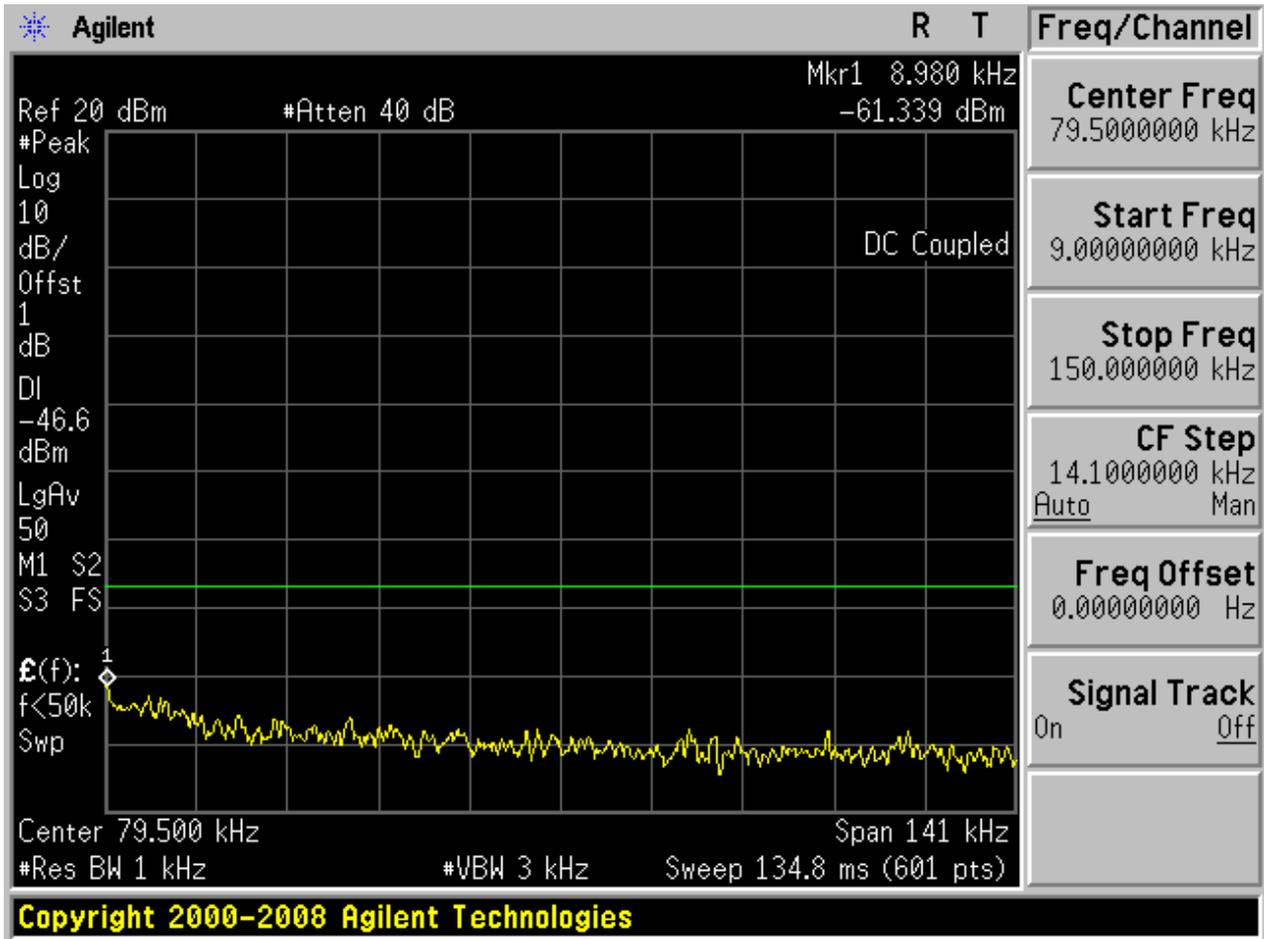


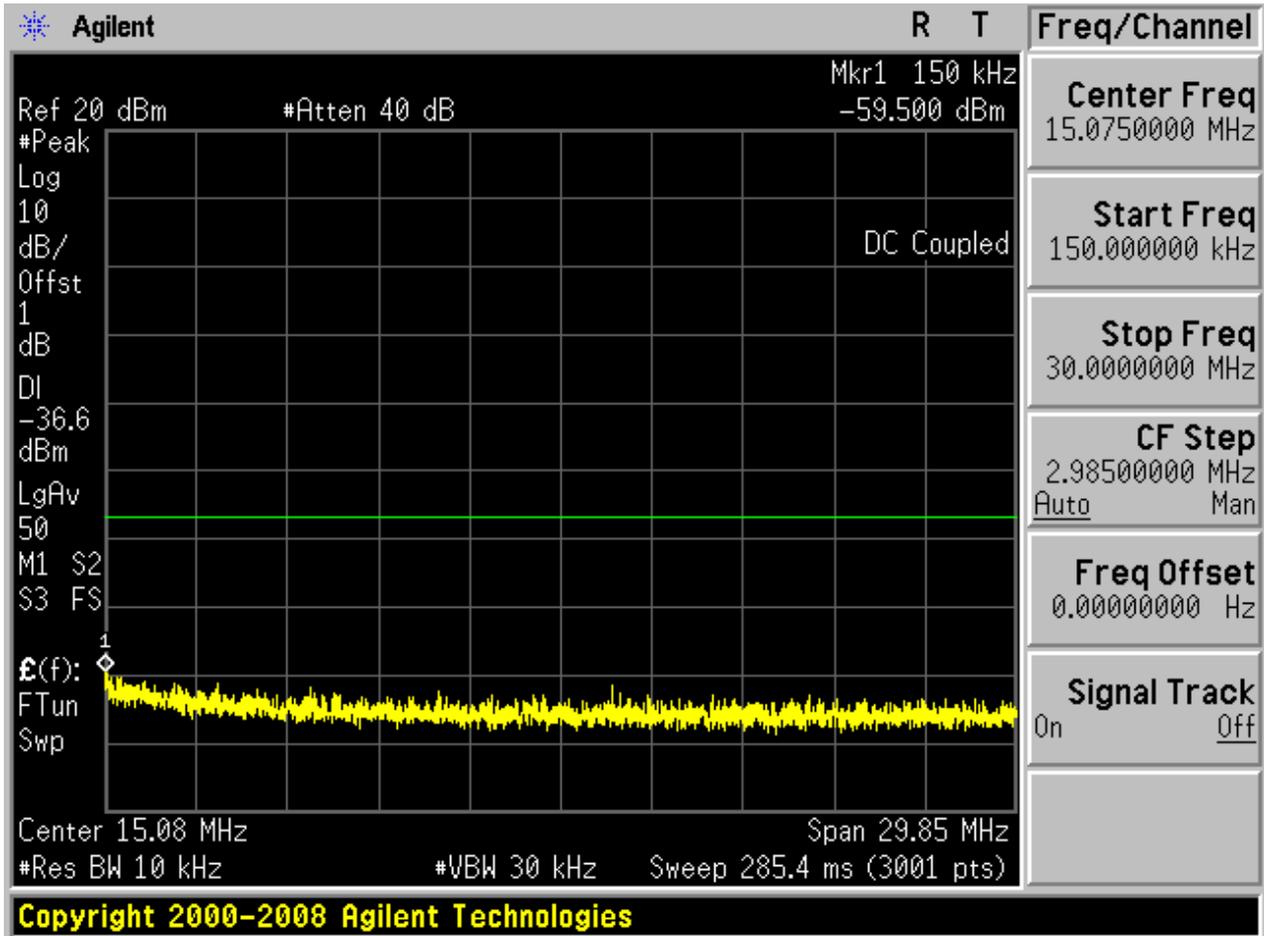
2.36 11N40m\_H@Ant 2

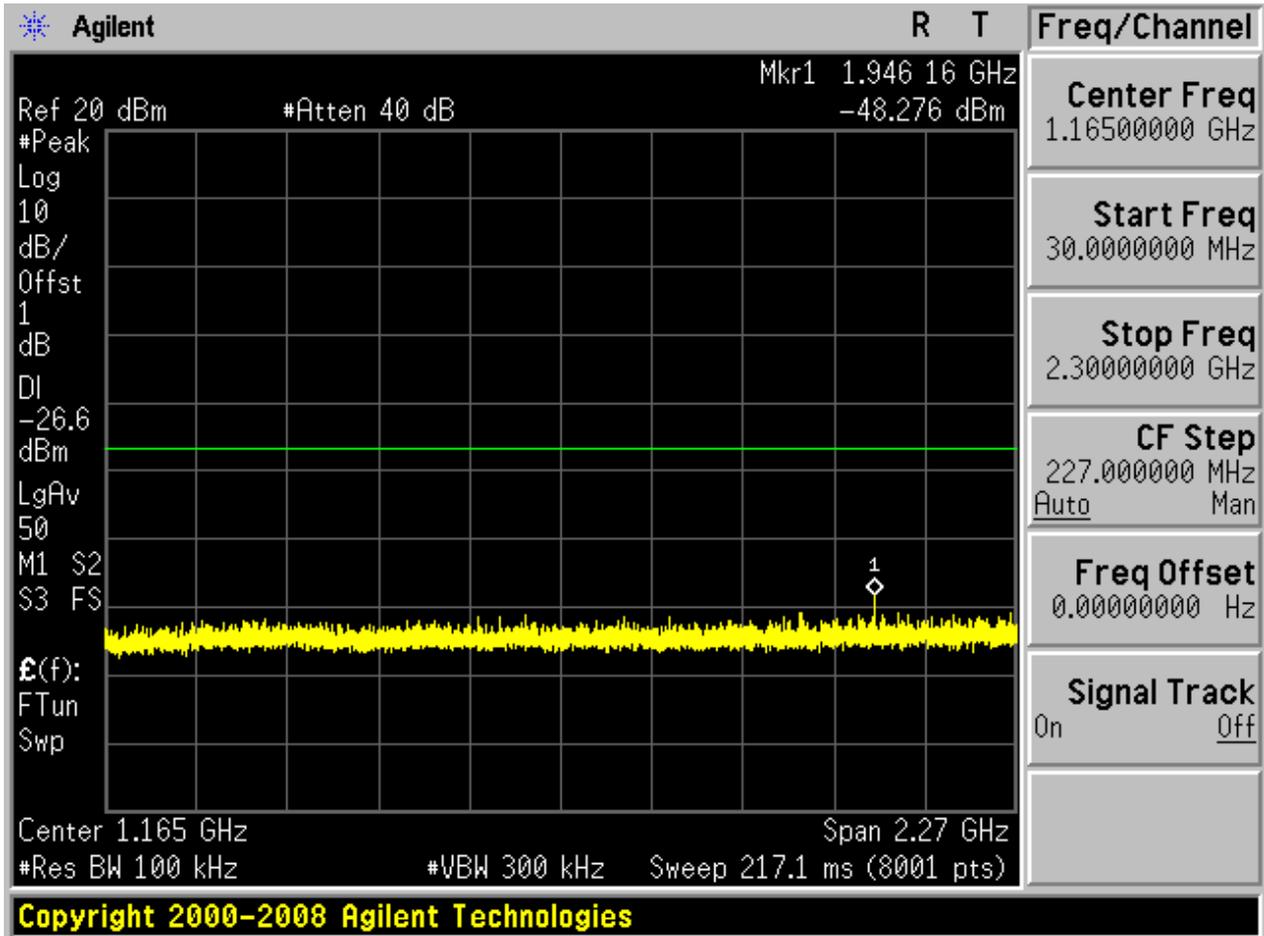
Pref:

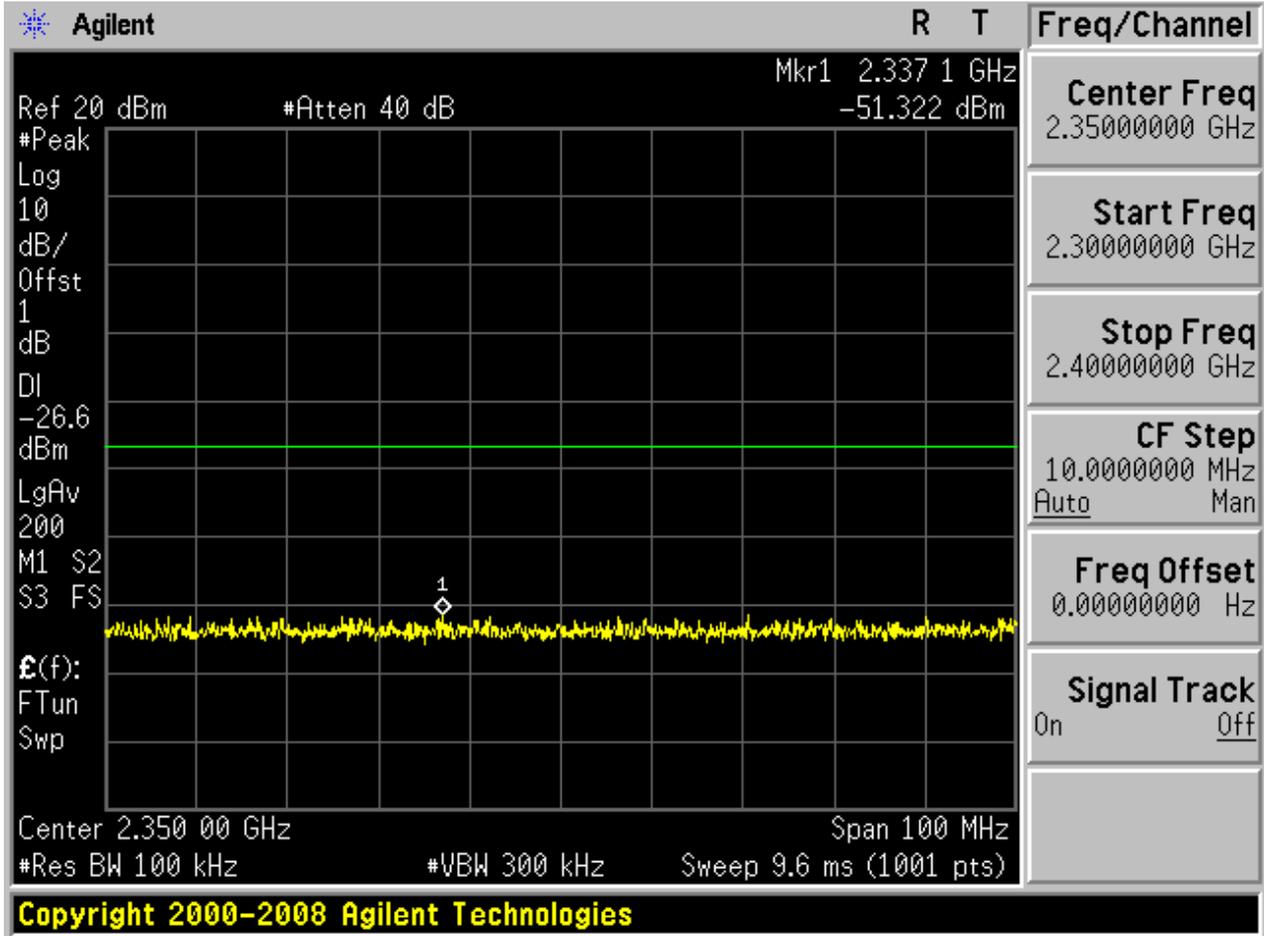


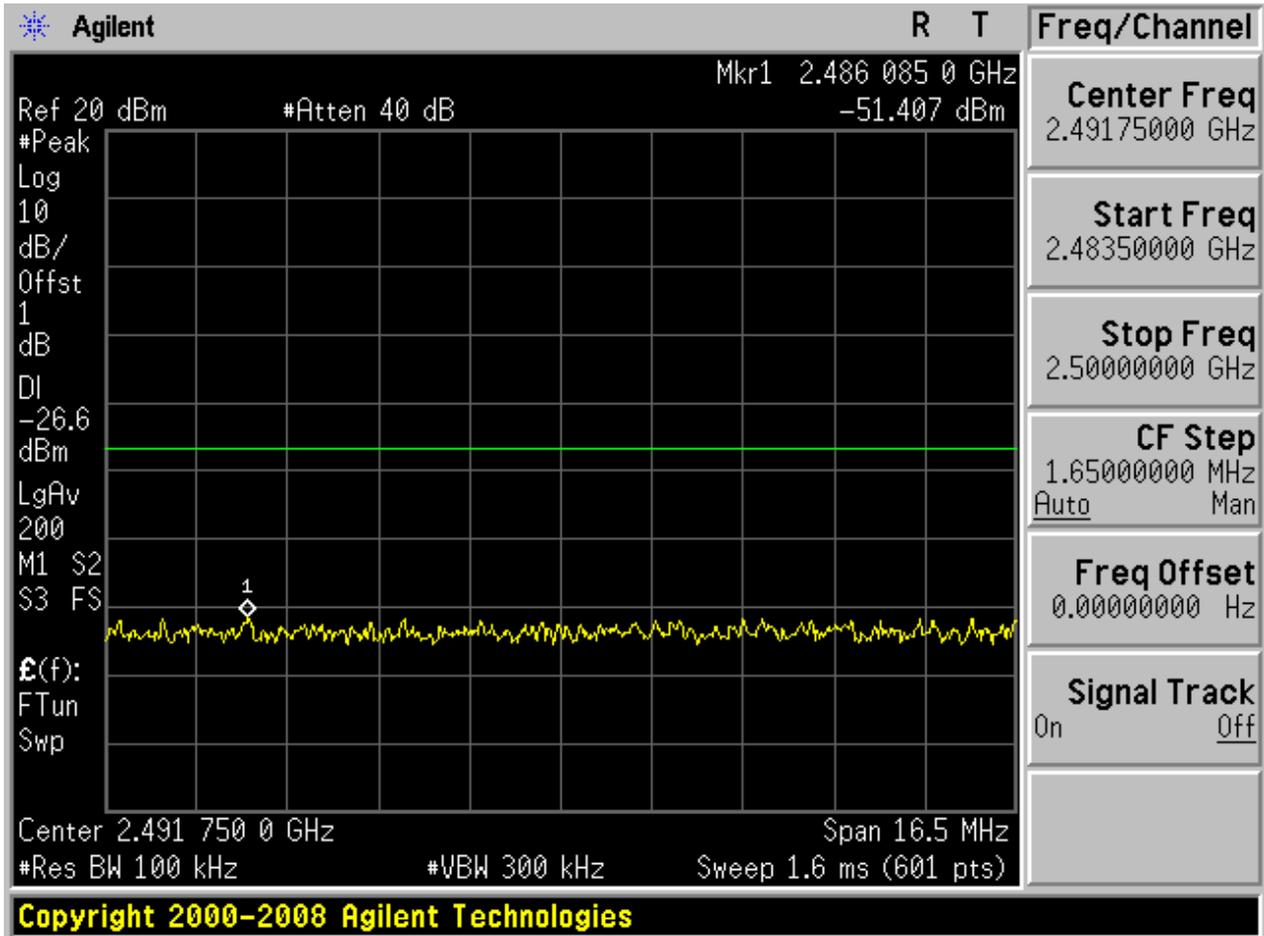
Puw:

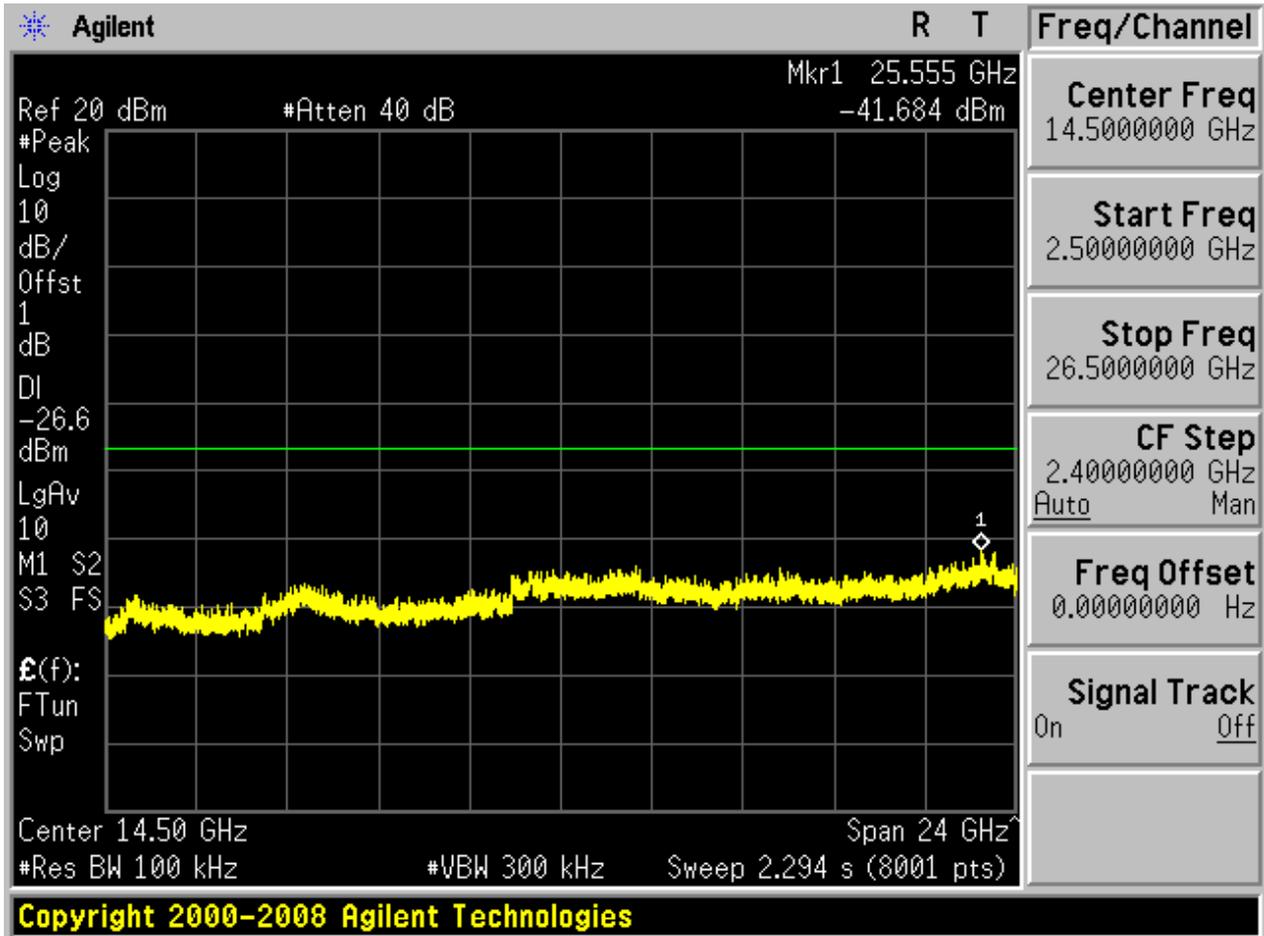








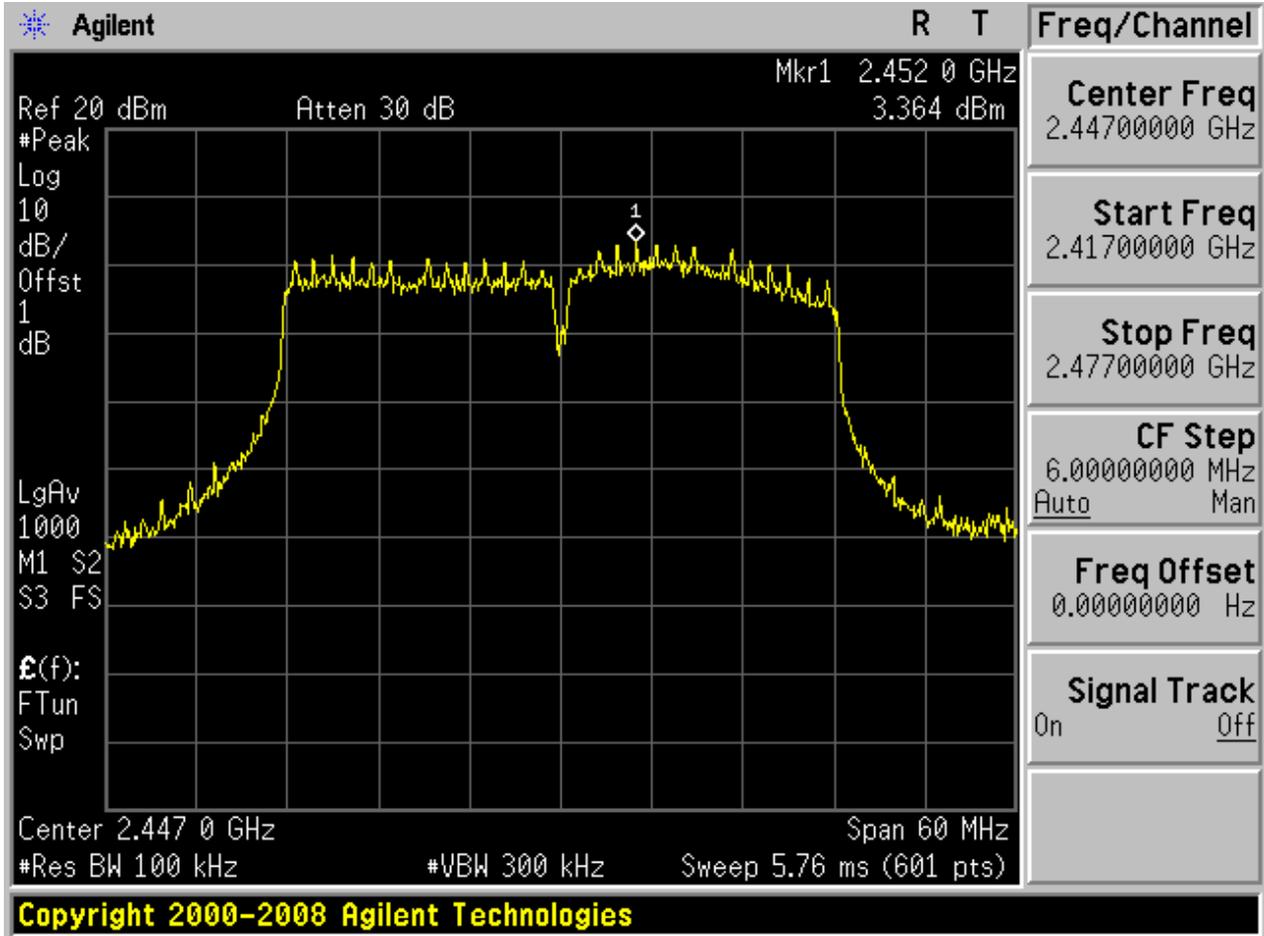






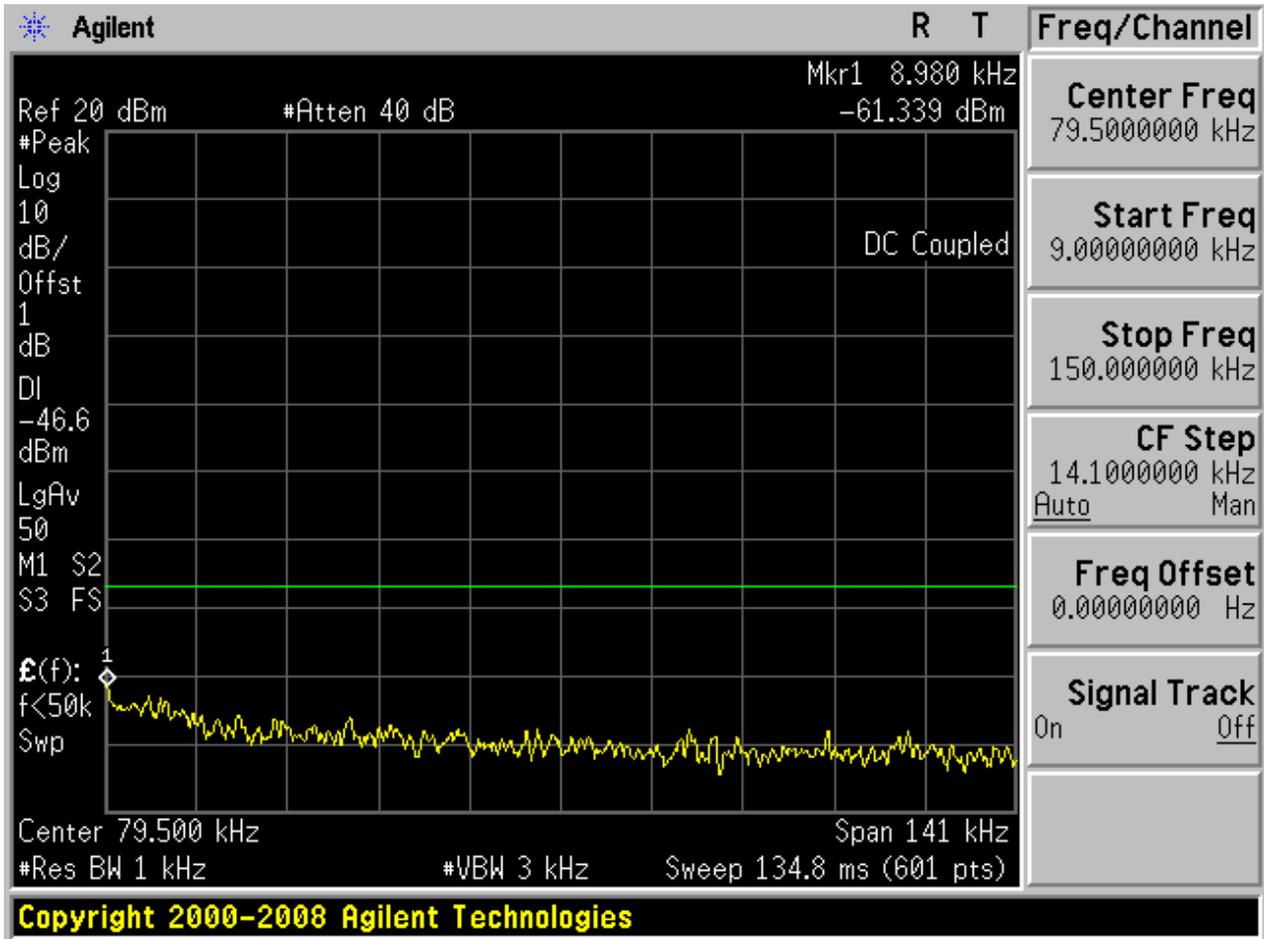
2.36 11N40m\_H@Ant 2

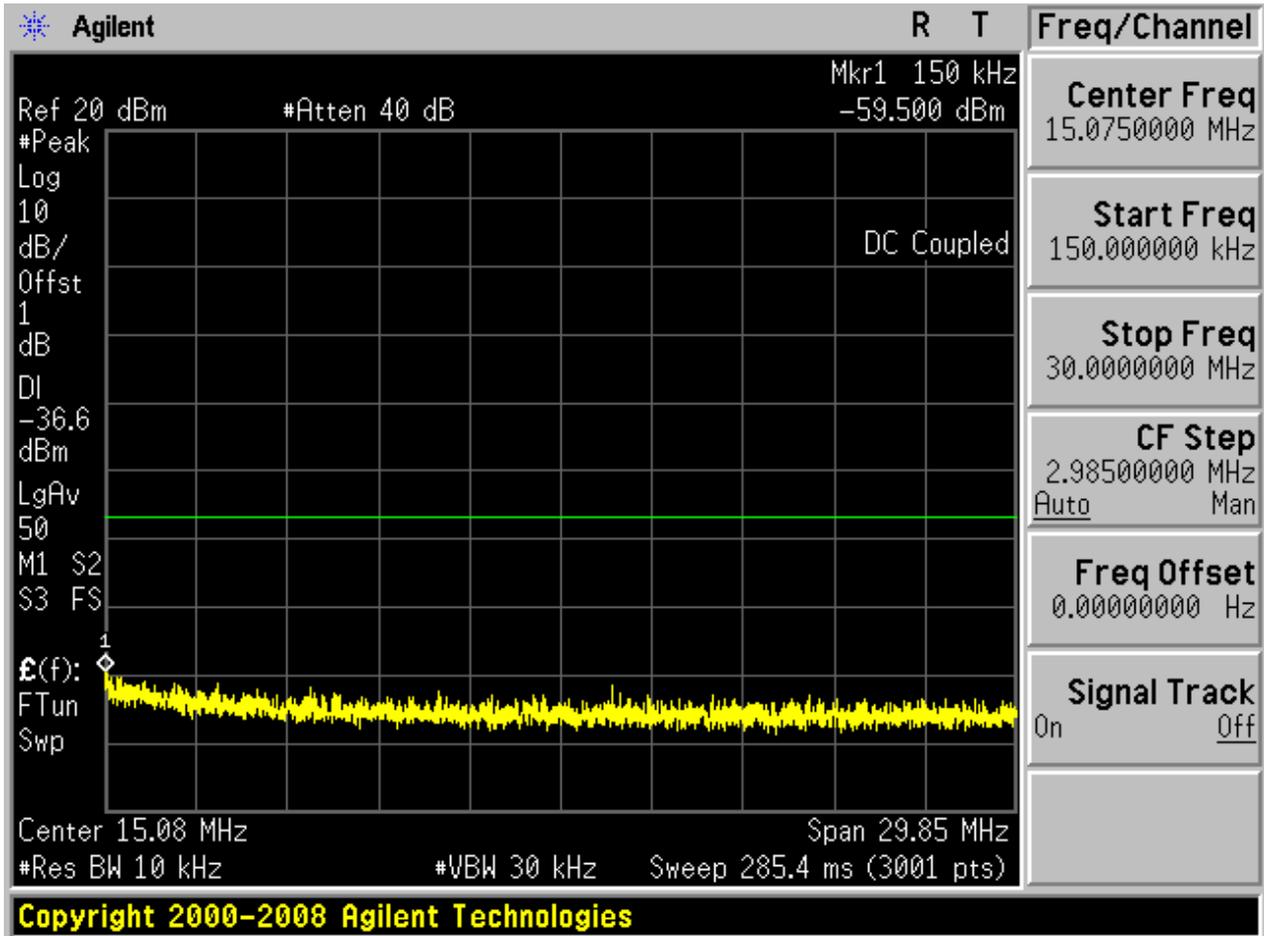
Pref:

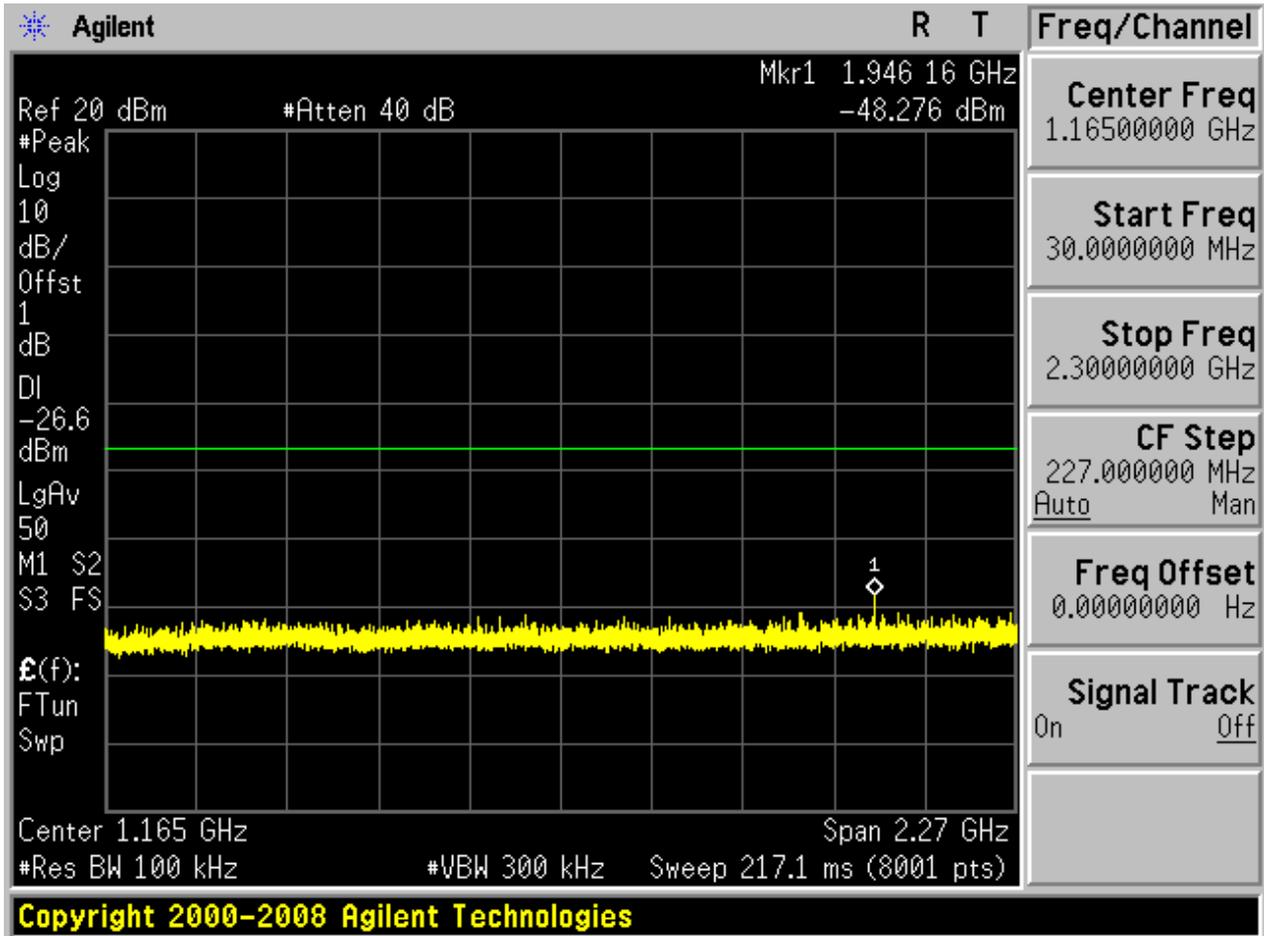


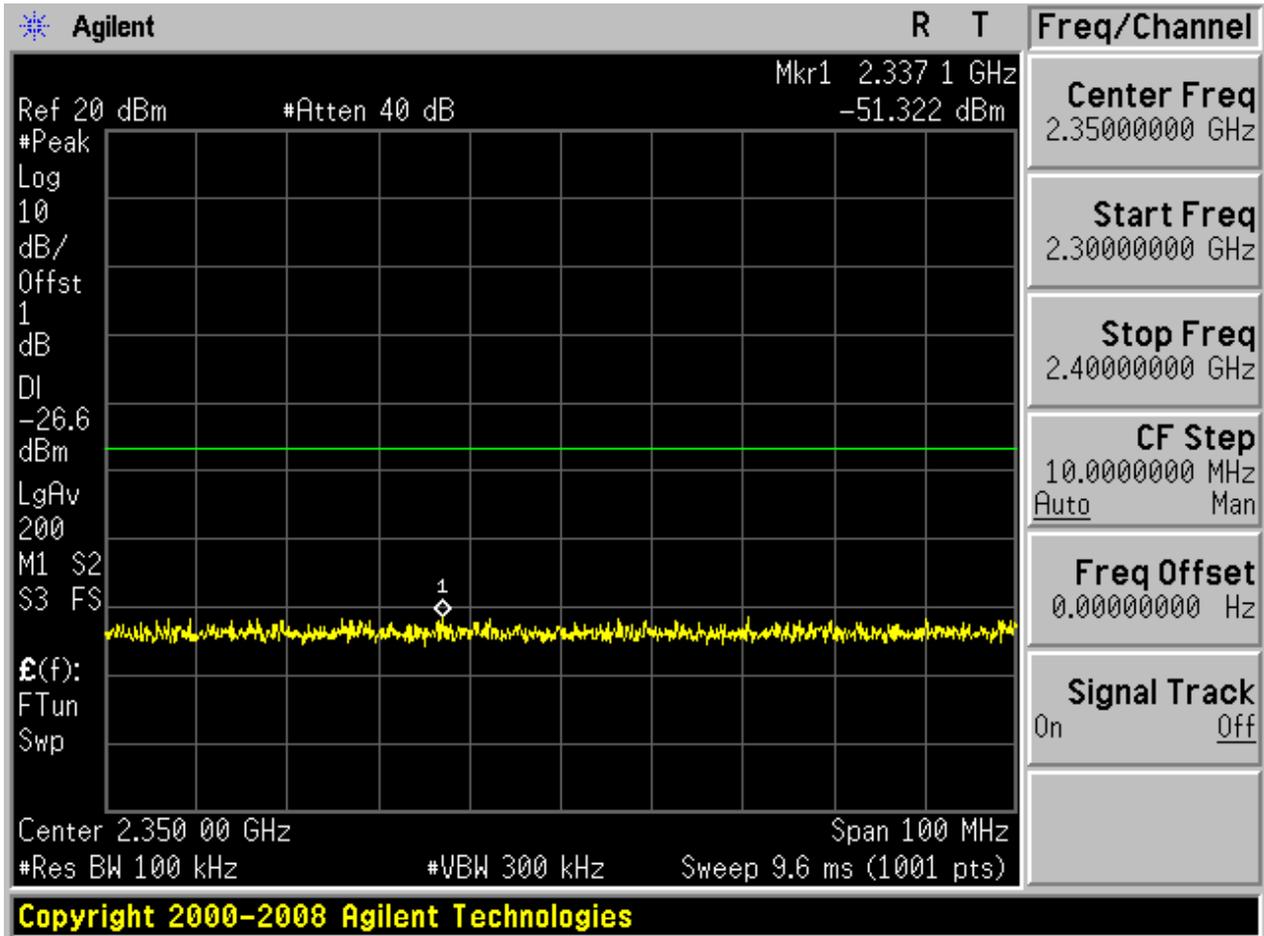


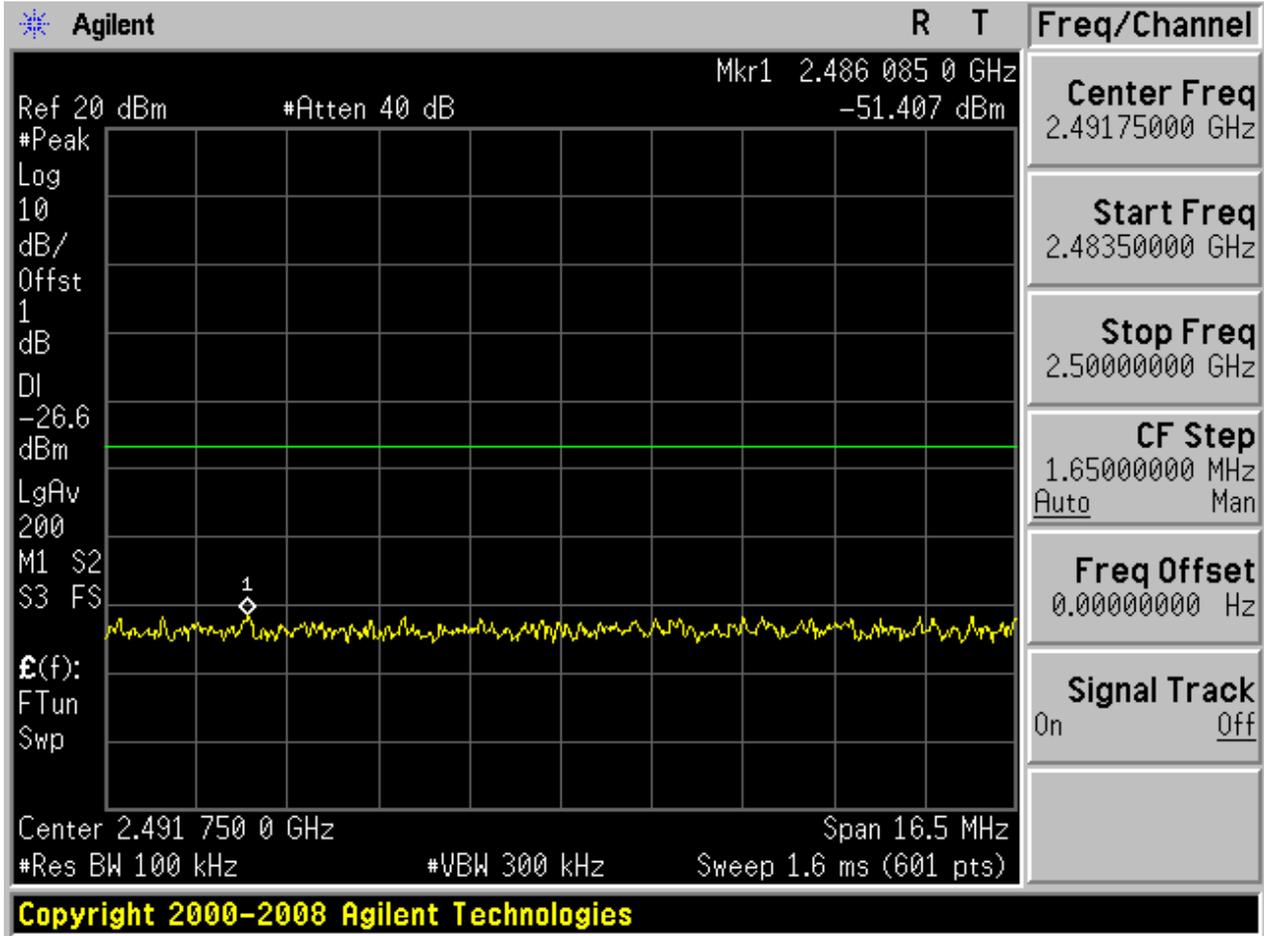
Puw:

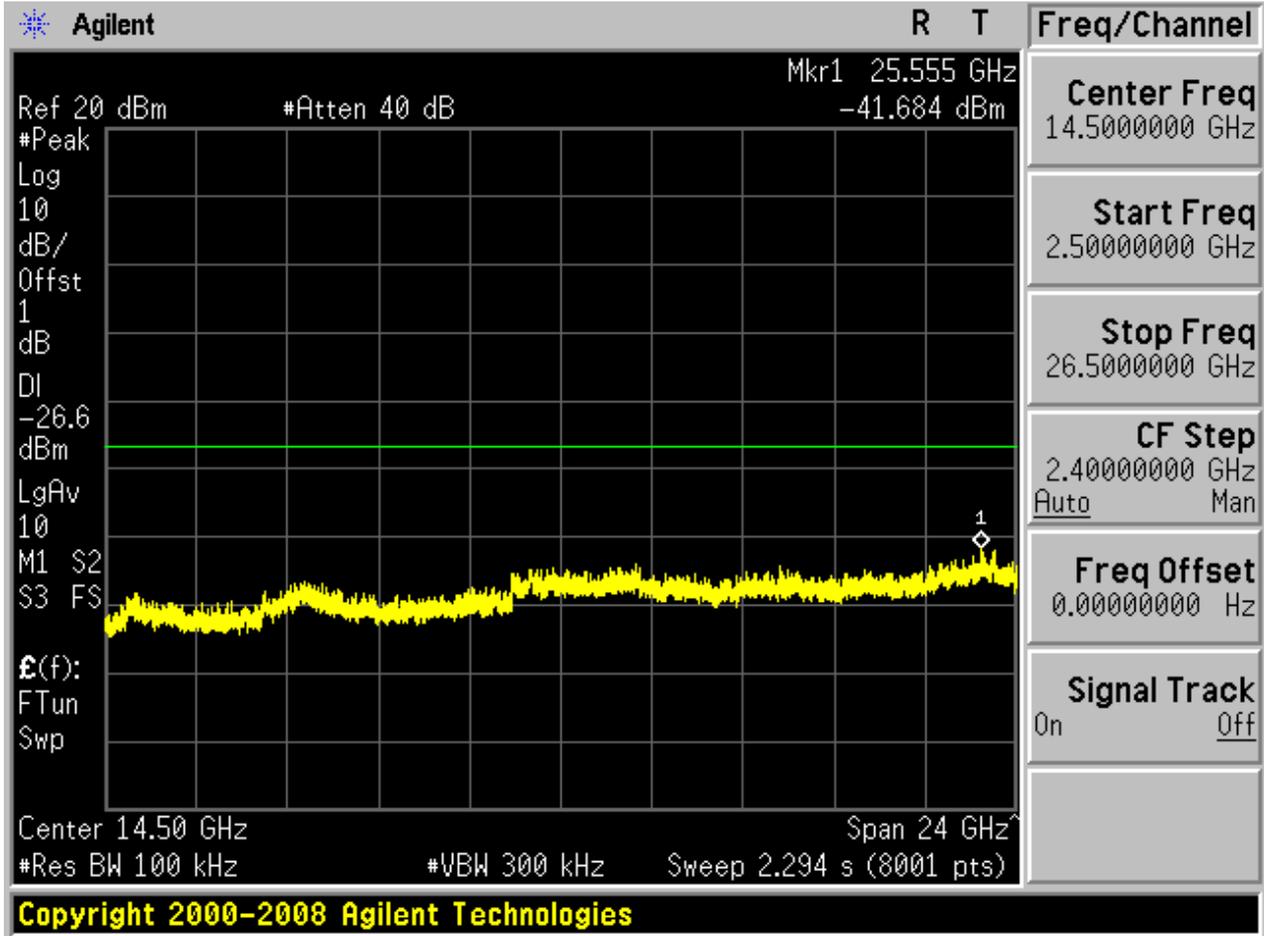














## **Appendix G: Radiated Spurious Emission & Spurious in Restricted Band**

Note: We tested all modes, but the data presented below is the worst case.

Below 1GHz, RBW = 100 kHz, VBW = 300 kHz.

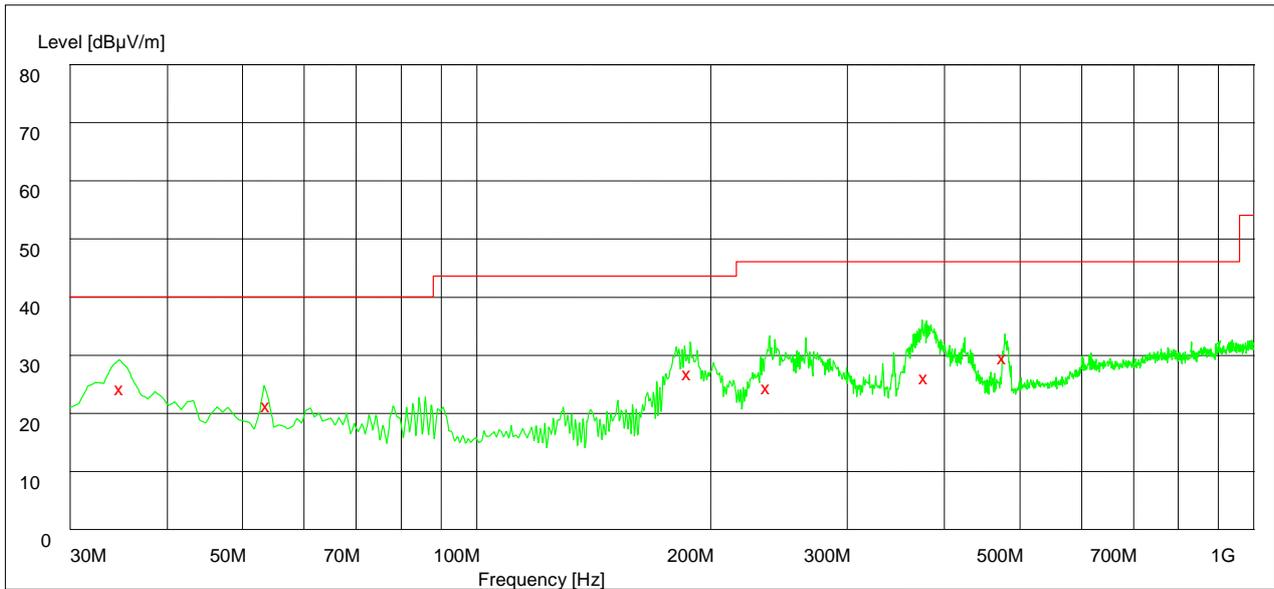
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz.

The simultaneous transmission has been considered

**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.

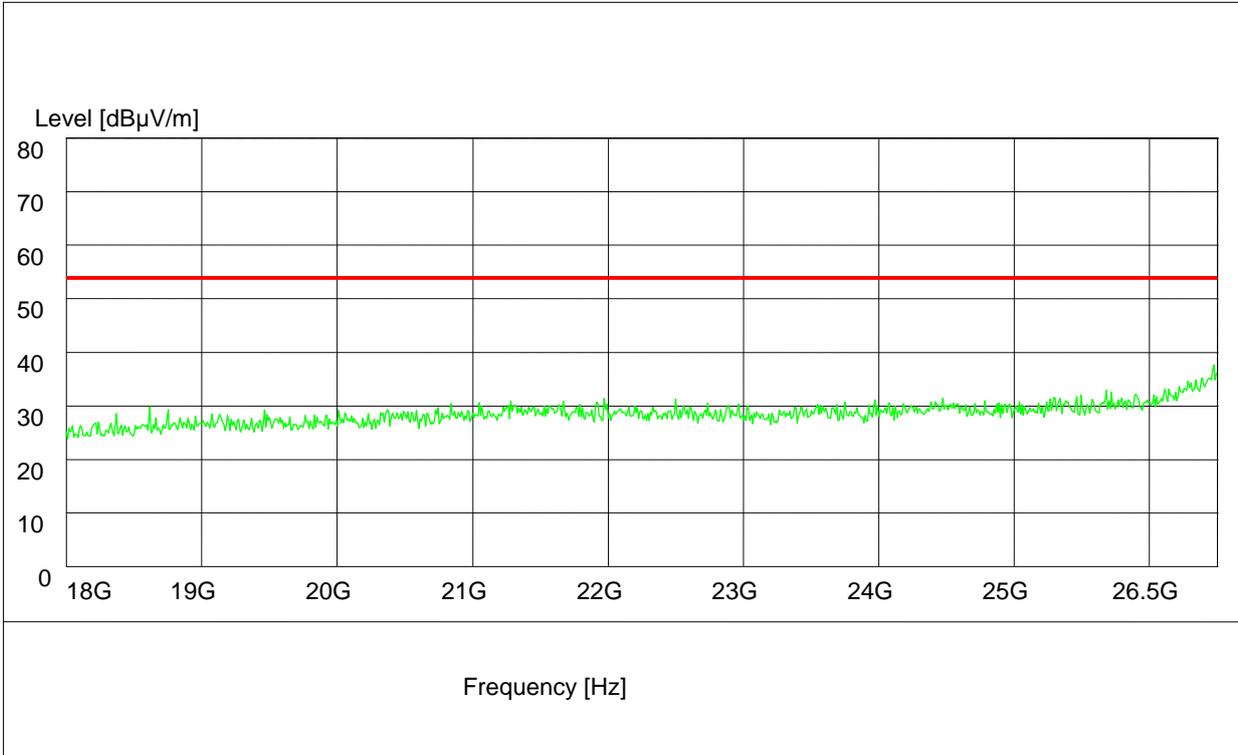
Note 2: **The emissions in this range are mainly from the Platform Device (Notepad PC and its ancillary components).**



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Plarization
35.016000	26.10	13.5	40.0	13.9	112.0	360.00	VERTICAL
54.000000	23.20	15.0	40.0	16.8	100.0	98.00	VERTICAL
188.004000	28.70	12.8	43.5	14.8	100.0	0.00	VERTICAL
237.188000	26.20	14.2	46.0	19.8	126.0	360.00	HORIZONTAL
379.080000	28.00	18.9	46.0	18.0	112.0	227.00	HORIZONTAL
478.108000	31.40	20.3	46.0	14.6	115.0	202.00	VERTICAL

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

Note: No peak found in pre- test.

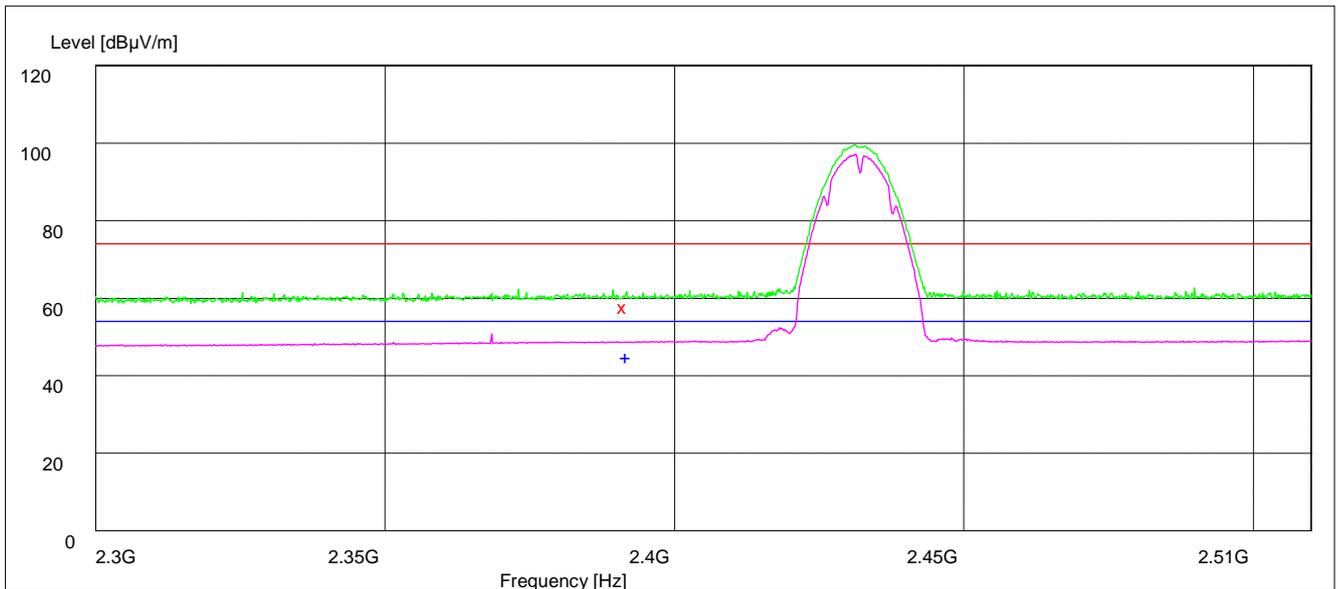


**Part 3: Testing Range of “2.3GHz to 2.5GHz”**

- Note 1: The 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 05**



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

**MEASUREMENT RESULT: PK Detector**

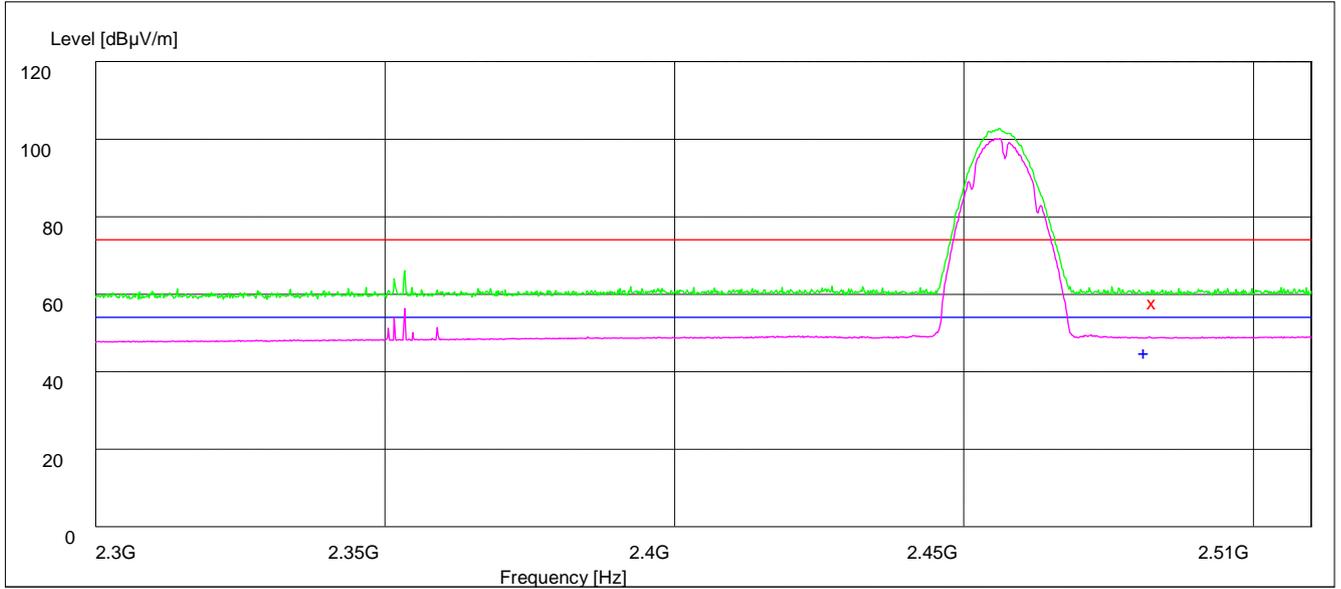
Frequency MHz	Level dB $\mu$ V/m	Transd dB	Limit dB $\mu$ V/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	60.40	34.8	74.0	13.6	161.0	58.00	VERTICAL

**MEASUREMENT RESULT: AV Detector**

Frequency MHz	Level dB $\mu$ V/m	Transd dB	Limit dB $\mu$ V/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	47.90	34.8	54.0	6.1	100.0	203.00	HORIZONTAL



Channel 10



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

MEASUREMENT RESULT: PK Detector

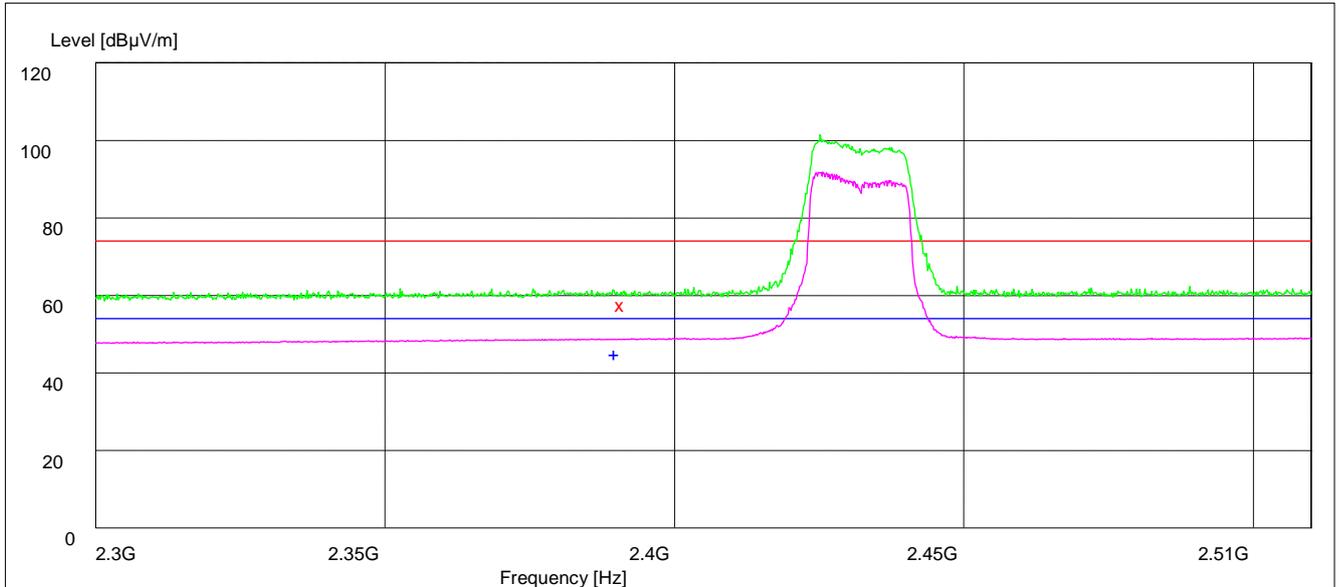
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2483.500000	60.70	35.1	74.0	13.3	158.0	167.00	HORIZONTAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2483.500000	47.60	35.1	54.0	6.4	145.0	342.00	HORIZONTAL

**Test Mode: 11g**

**Channel 05**



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

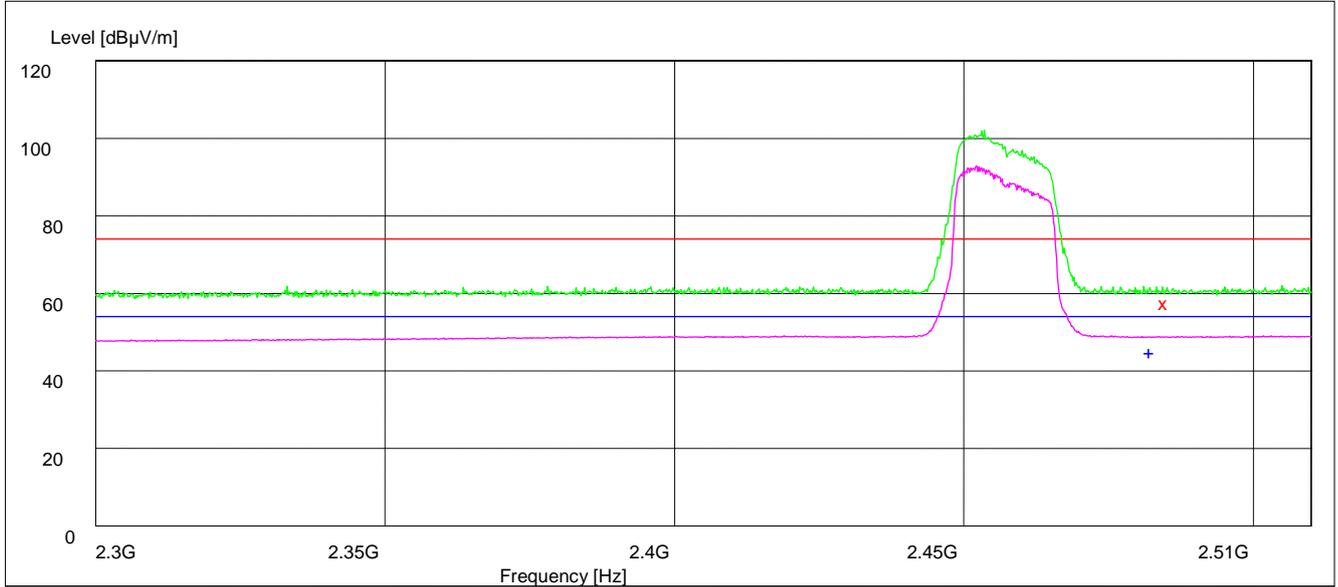
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	69.40	34.8	74.0	4.6	101.0	201.00	HORIZONTAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	50.00	34.8	54.0	4.0	101.0	204.00	HORIZONTAL

**Channel 10**



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

MEASUREMENT RESULT: PK Detector

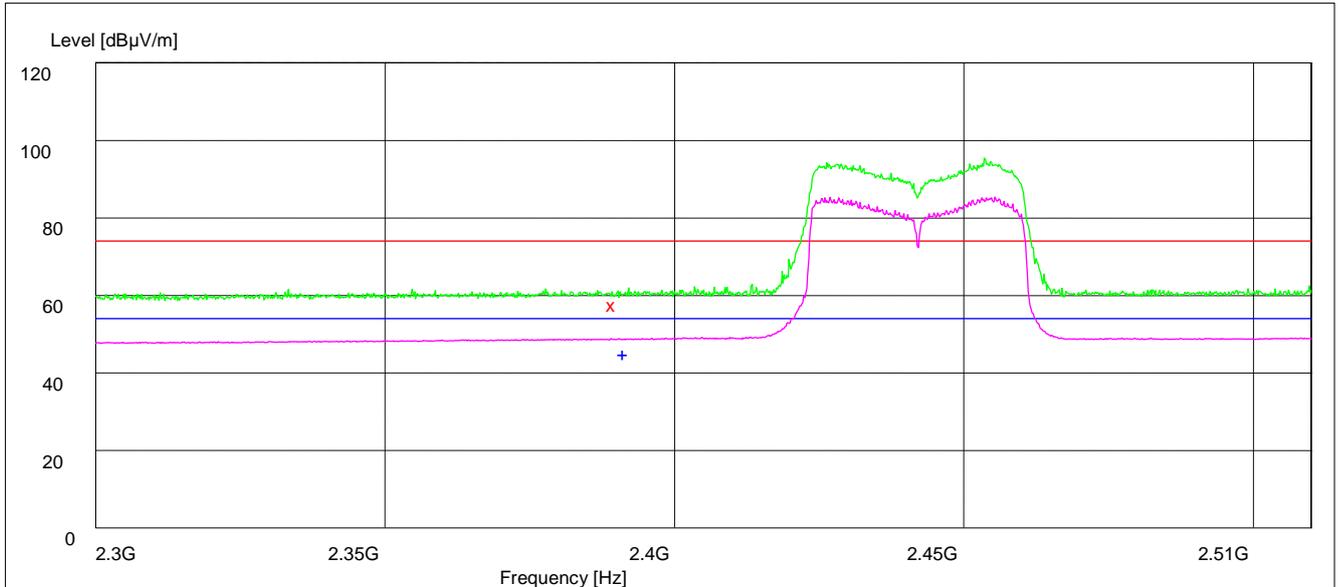
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2483.500000	70.00	35.1	74.0	4.0	101.0	242.00	HORIZONTAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2483.500000	49.70	35.1	54.0	4.3	101.0	207.00	HORIZONTAL

**Test Mode: 11n**

**Channel 07**



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

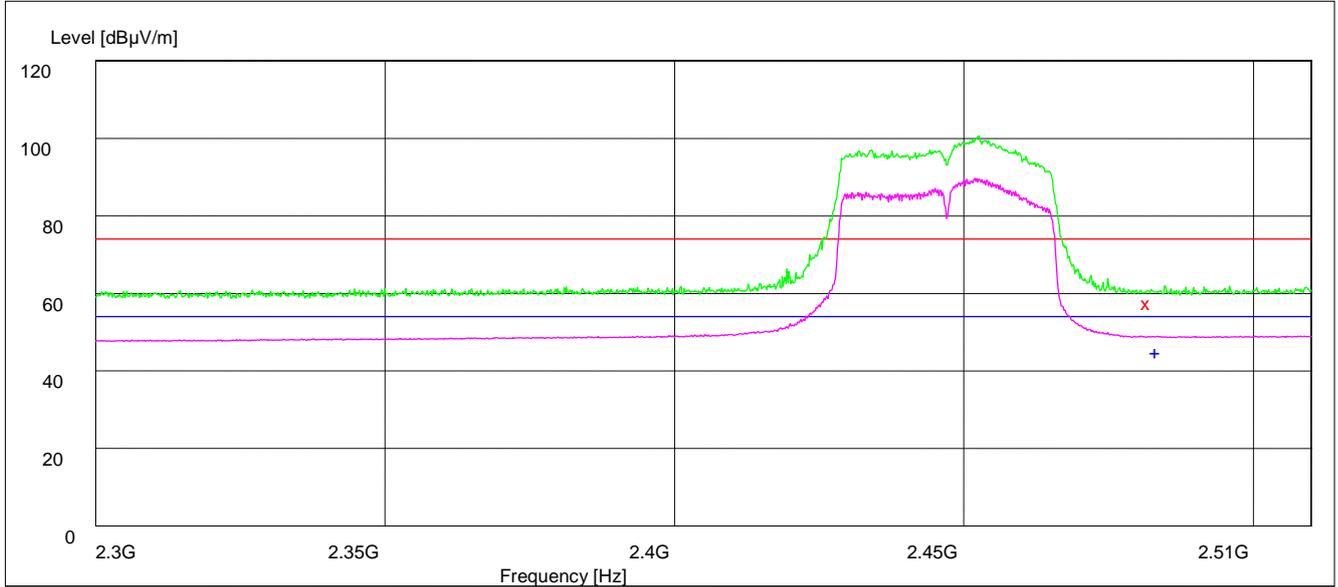
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	66.60	34.8	74.0	7.4	101.0	245.00	HORIZONTAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	48.90	34.8	54.0	5.1	101.0	203.00	HORIZONTAL

**Channel 08**



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

MEASUREMENT RESULT: PK Detector

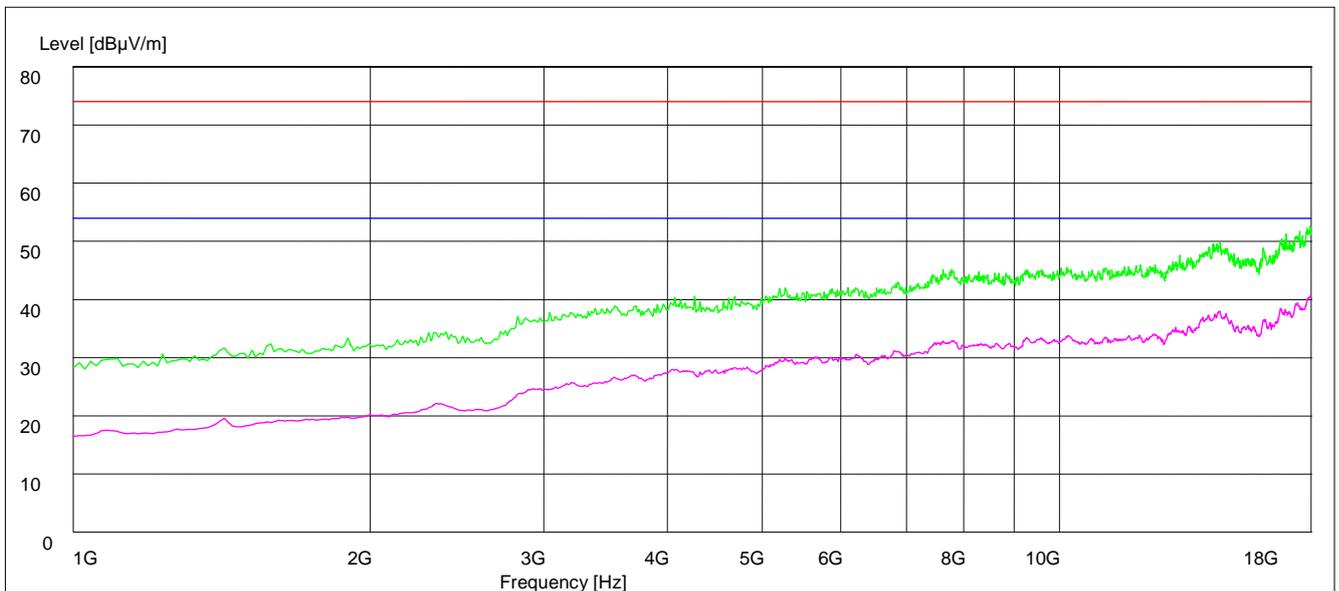
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2483.500000	68.40	35.1	74.0	5.6	102.0	251.00	HORIZONTAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2483.500000	49.20	35.1	54.0	4.8	102.0	201.00	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).

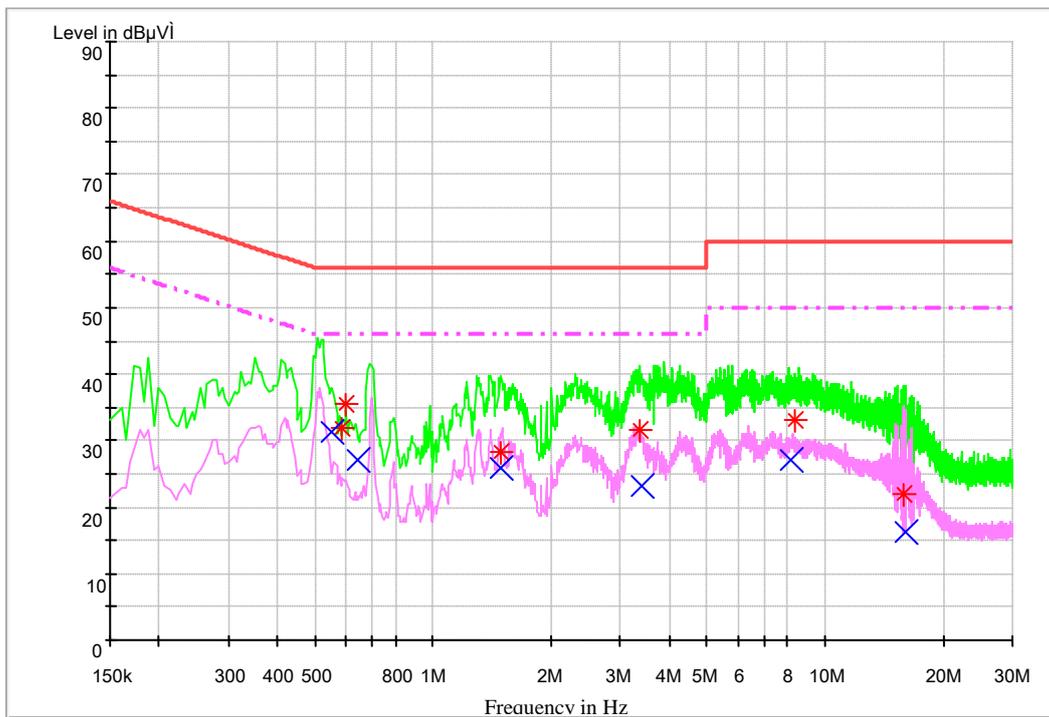


## Appendix H: Conducted Emission at Power Port

Note: RBW =9 kHz, VBW = 30 kHz

### Channel 7

CLASS B Voltage with ENV216



#### MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBµV	Line	Transd dB	Margin dB	Limit dBµV	PE
0.587422	31.8	N	9.7	24.2	56.0	FLO
0.598654	35.4	N	9.7	20.6	56.0	FLO
1.494551	28.1	N	9.7	27.9	56.0	FLO
3.379242	31.6	N	9.7	24.4	56.0	FLO
8.398376	33.0	N	9.9	27.0	60.0	FLO
15.888254	21.9	N	10.1	38.1	60.0	FLO

#### MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dB $\mu$ V	Line	Transd dB	Margin dB	Limit dB $\mu$ V	PE
0.551572	31.4	N	9.7	14.6	46.0	FLO
0.642132	27.0	N	9.7	19.0	46.0	FLO
1.487580	26.0	N	9.7	20.0	46.0	FLO
3.385980	23.3	N	9.7	22.7	46.0	FLO
8.163420	27.2	N	9.9	22.8	50.0	FLO
16.048216	16.3	L1	10.0	33.7	50.0	FLO

---

END