



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

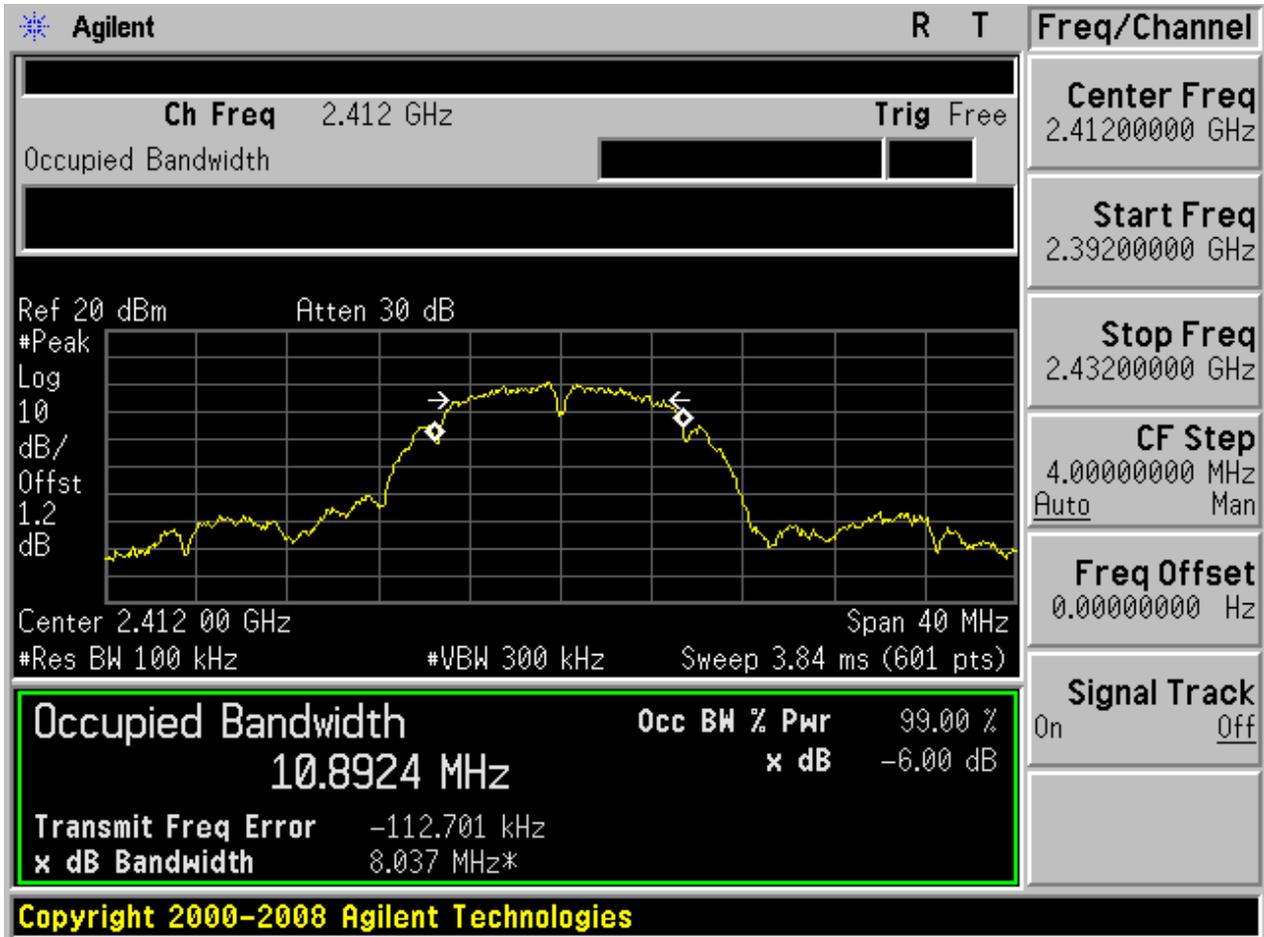
Test Mode	Test Channel	Frequency[MHz]	Ant	DTS6dBBW[MHz]	Verdict
11B	L	2412	Ant 1	8.04	pass
11B	L	2412	Ant 2	8.83	pass
11B	M	2437	Ant 1	9.41	pass
11B	M	2437	Ant 2	9.27	pass
11B	H	2462	Ant 1	9.19	pass
11B	H	2462	Ant 2	9.06	pass
11G	L	2412	Ant 1	16.55	pass
11G	L	2412	Ant 2	16.52	pass
11G	M	2437	Ant 1	16.57	pass
11G	M	2437	Ant 2	16.57	pass
11G	H	2462	Ant 1	16.60	pass
11G	H	2462	Ant 2	16.55	pass
11N20	L	2412	Ant 1	17.81	pass
11N20	L	2412	Ant 2	17.80	pass
11N20	M	2437	Ant 1	17.83	pass
11N20	M	2437	Ant 2	17.83	pass
11N20	H	2462	Ant 1	17.85	pass
11N20	H	2462	Ant 2	17.81	pass
11N20m	L	2412	Ant 1	17.82	pass
11N20m	L	2412	Ant 2	17.71	pass
11N20m	M	2437	Ant 1	17.79	pass
11N20m	M	2437	Ant 2	17.80	pass
11N20m	H	2462	Ant 1	18.82	pass
11N20m	H	2462	Ant 2	17.84	pass
11N40	L	2422	Ant 1	36.55	pass
11N40	L	2422	Ant 2	36.58	pass
11N40	M	2437	Ant 1	36.56	pass
11N40	M	2437	Ant 2	36.63	pass



Test Mode	Test Channel	Frequency[MHz]	Ant	DTS6dBBW[MHz]	Verdict
11N40	H	2452	Ant 1	36.55	pass
11N40	H	2452	Ant 2	36.36	pass
11N40m	L	2422	Ant 1	36.64	pass
11N40m	L	2422	Ant 2	36.52	pass
11N40m	M	2437	Ant 1	36.52	pass
11N40m	M	2437	Ant 2	36.62	pass
11N40m	H	2452	Ant 1	36.49	pass
11N40m	H	2452	Ant 2	36.41	pass

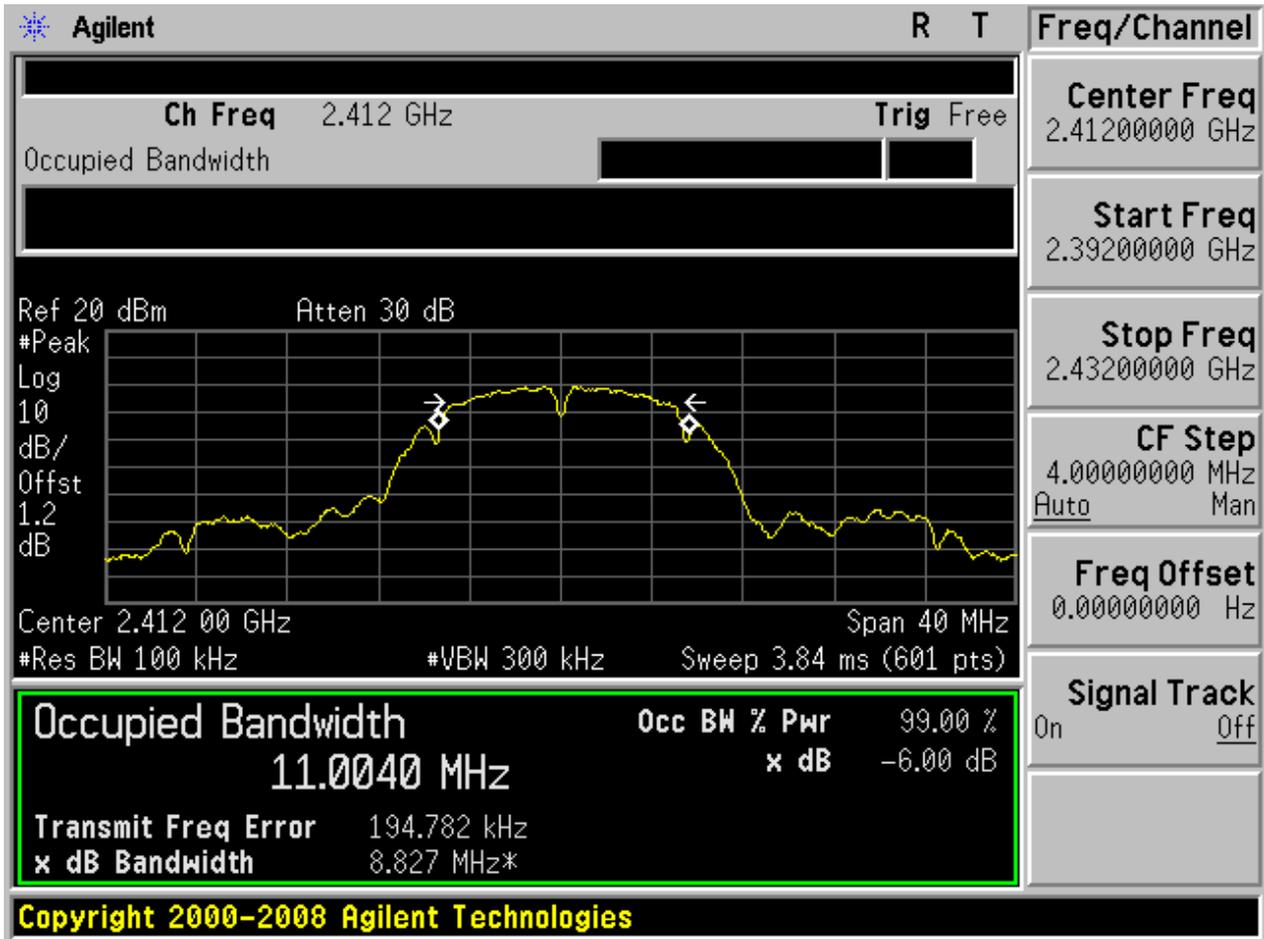
Part II - Test Plots

2.1 11B_L@Ant 1



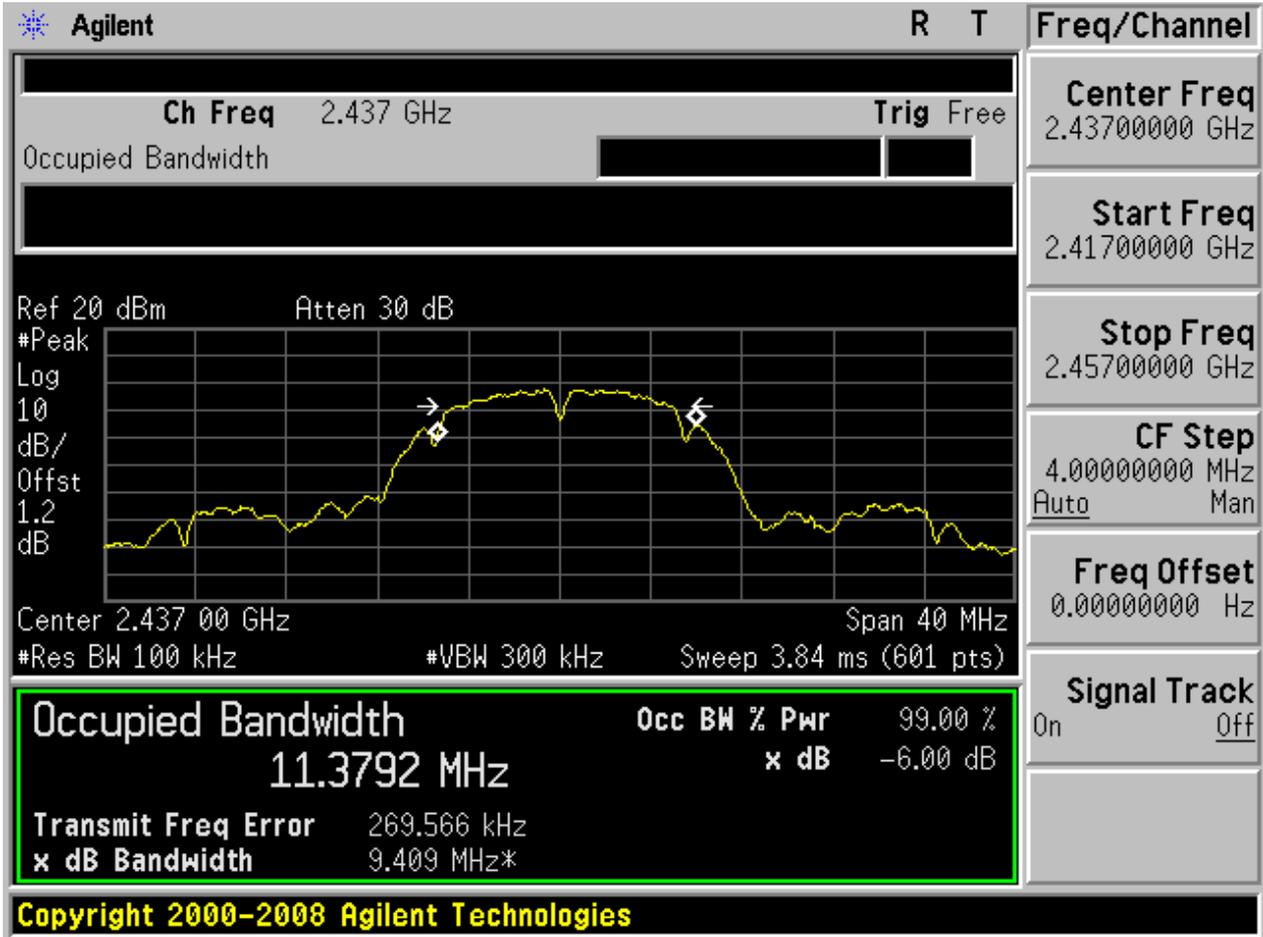


2.2 11B_L@Ant 2



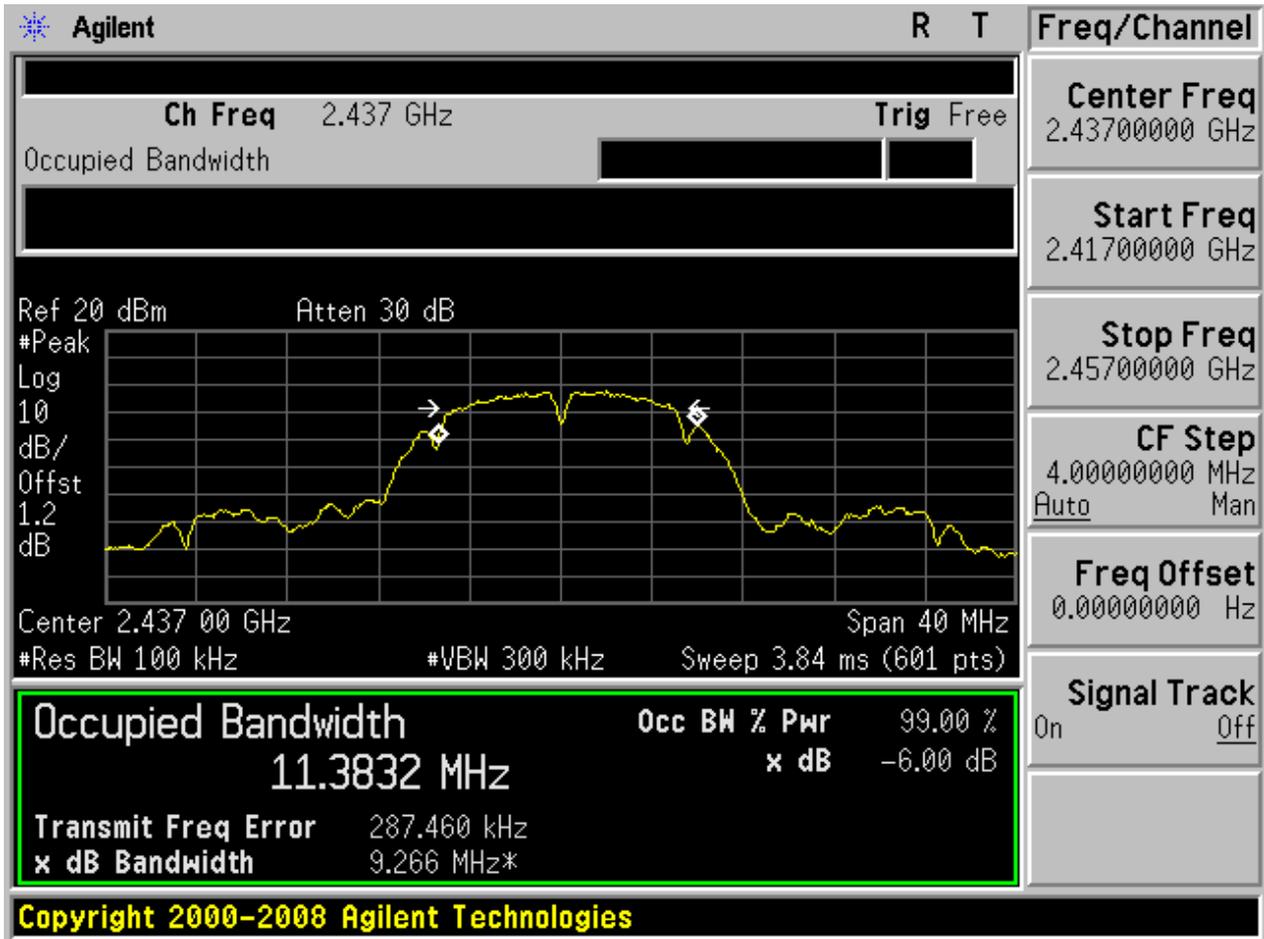


2.3 11B_M@Ant 1



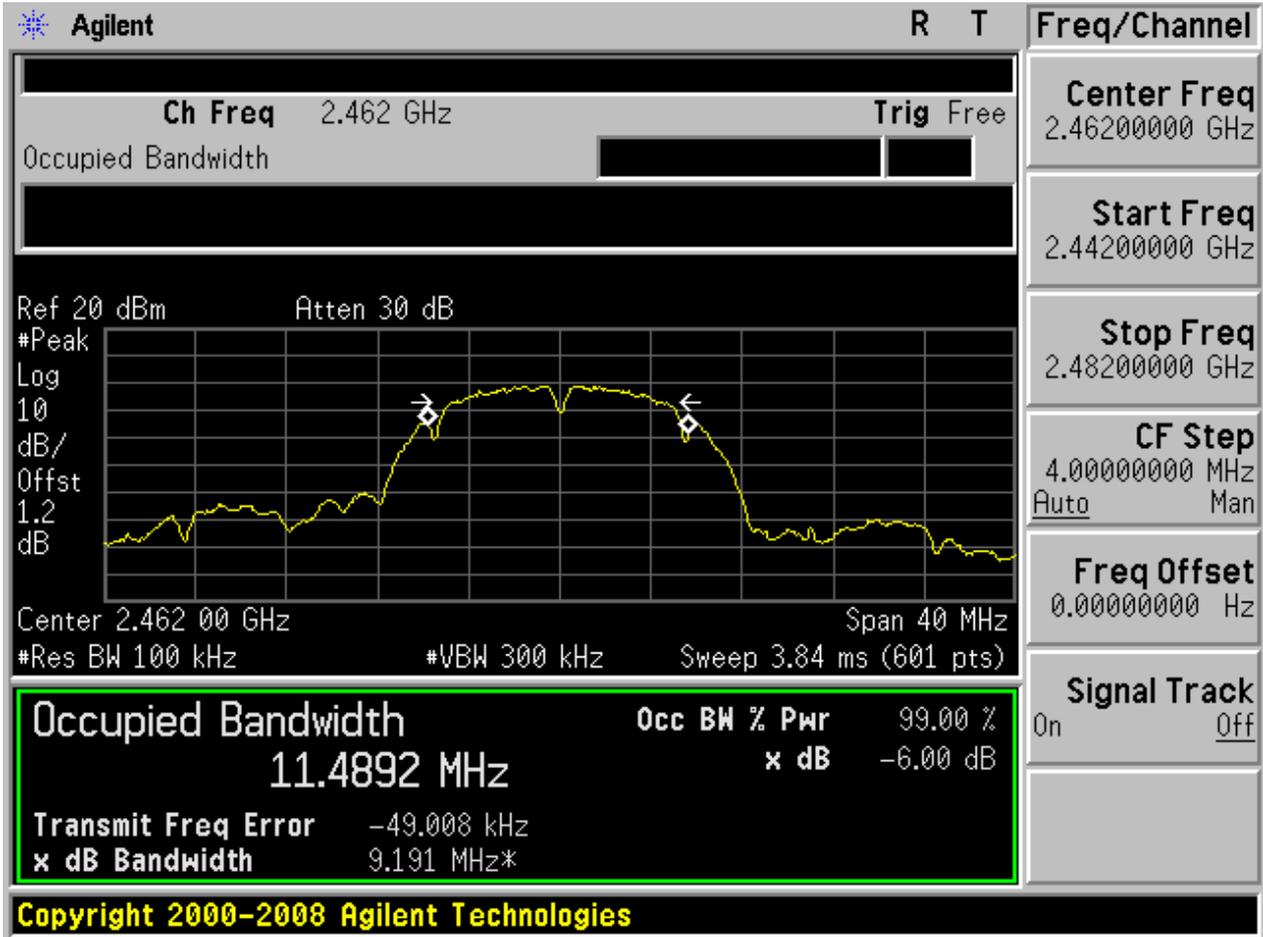


2.4 11B_M@Ant 2



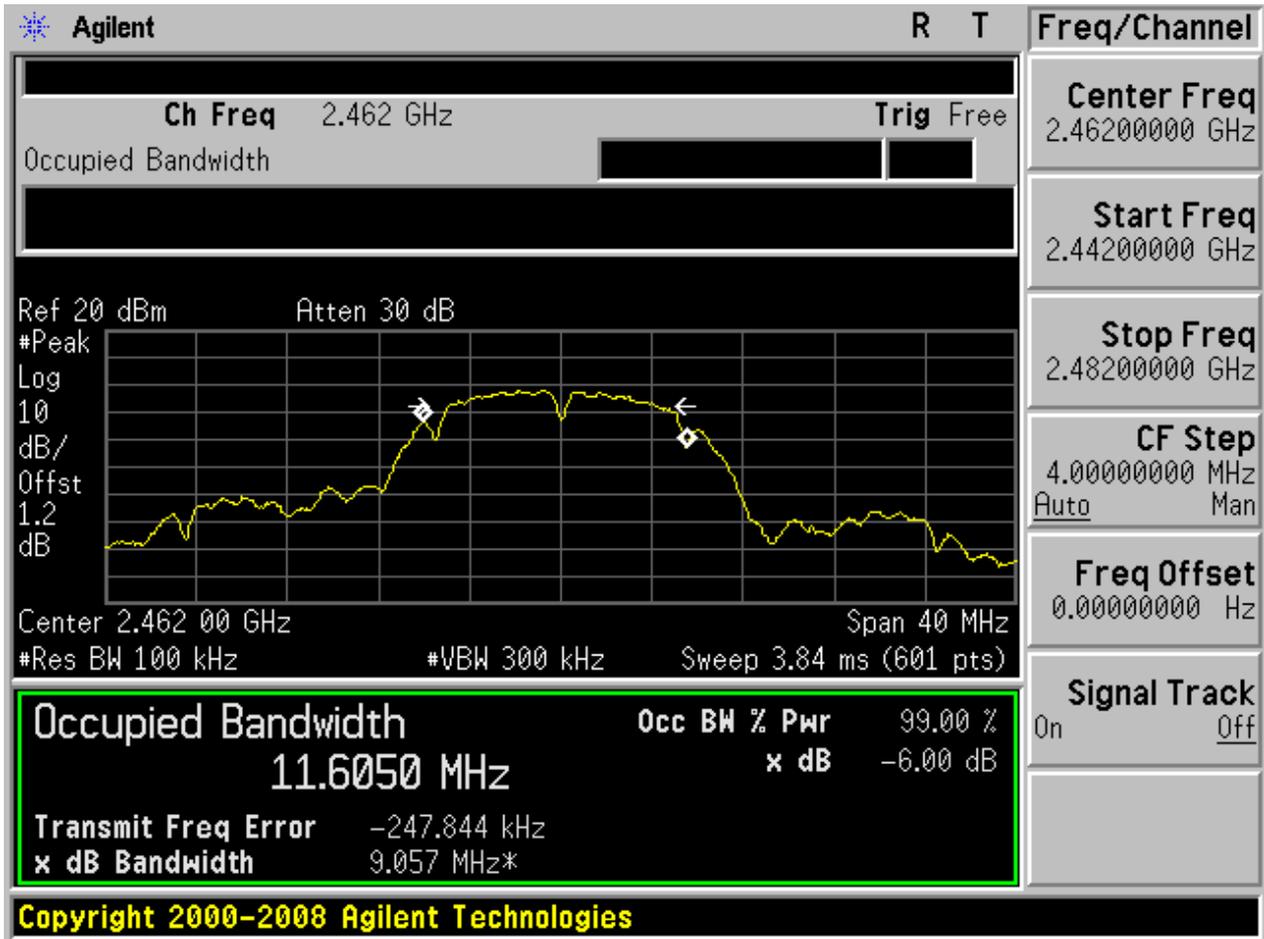


2.5 11B_H@Ant 1

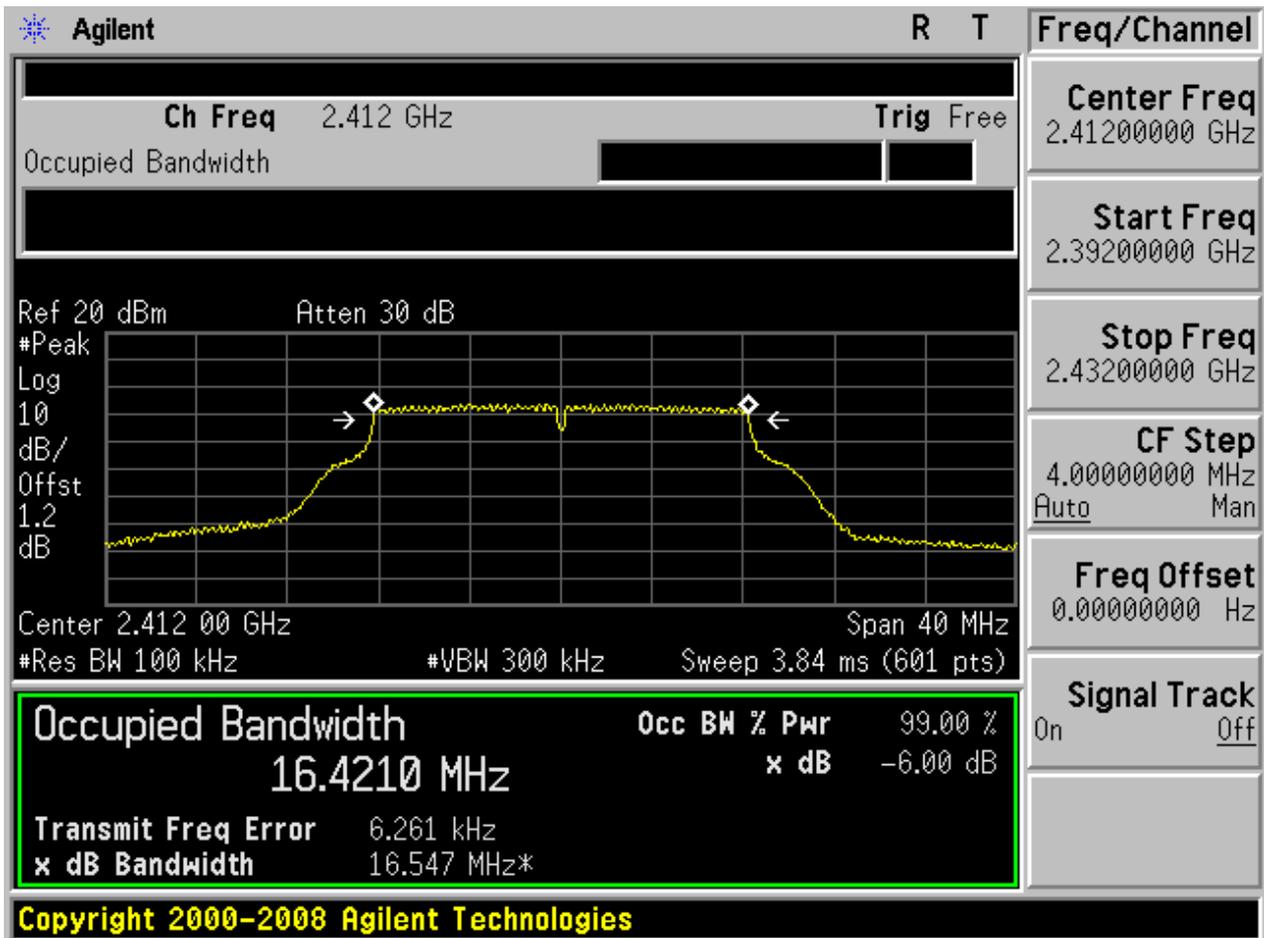




2.6 11B_H@Ant 2

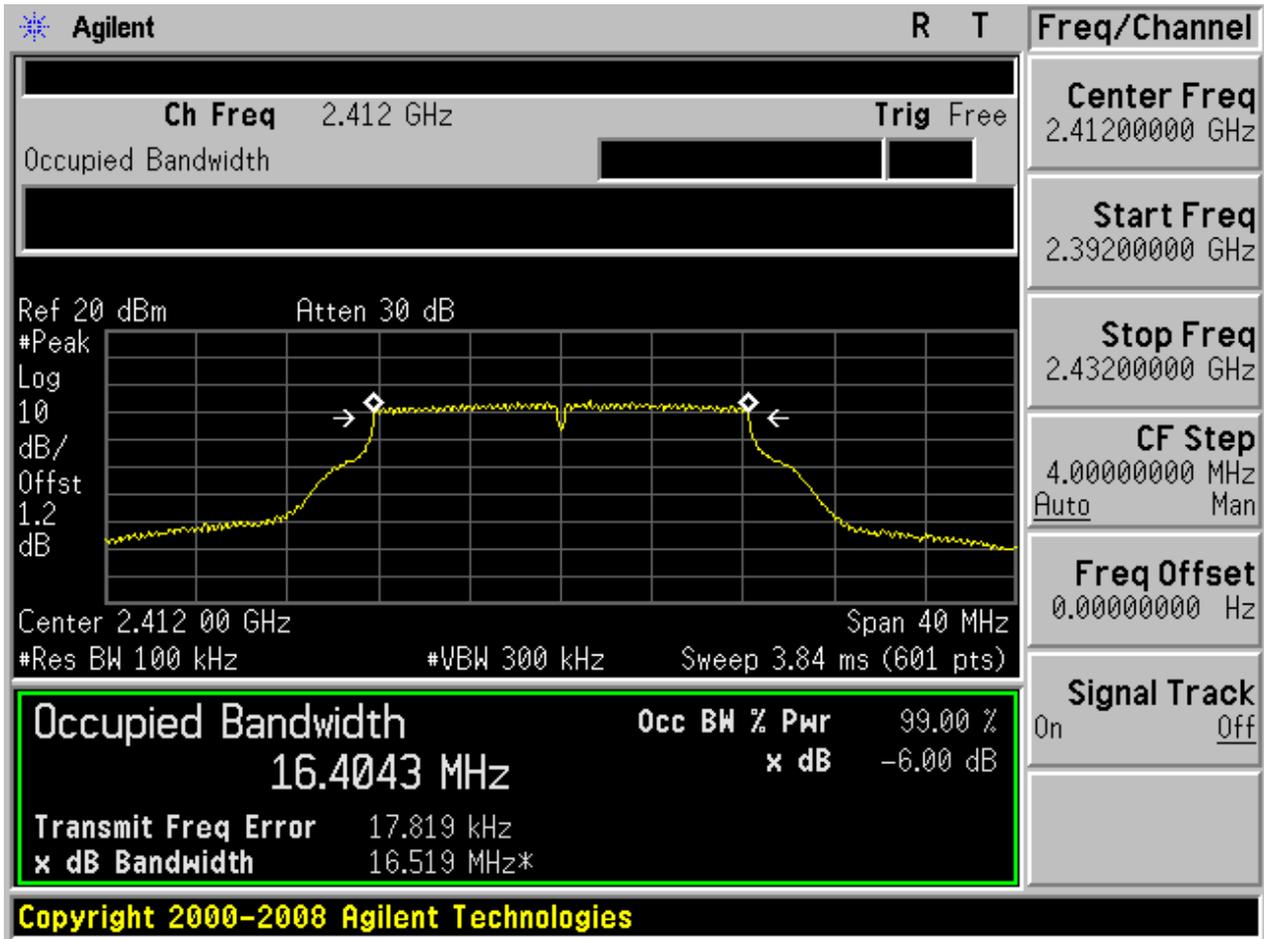


2.7 11G_L@Ant 1



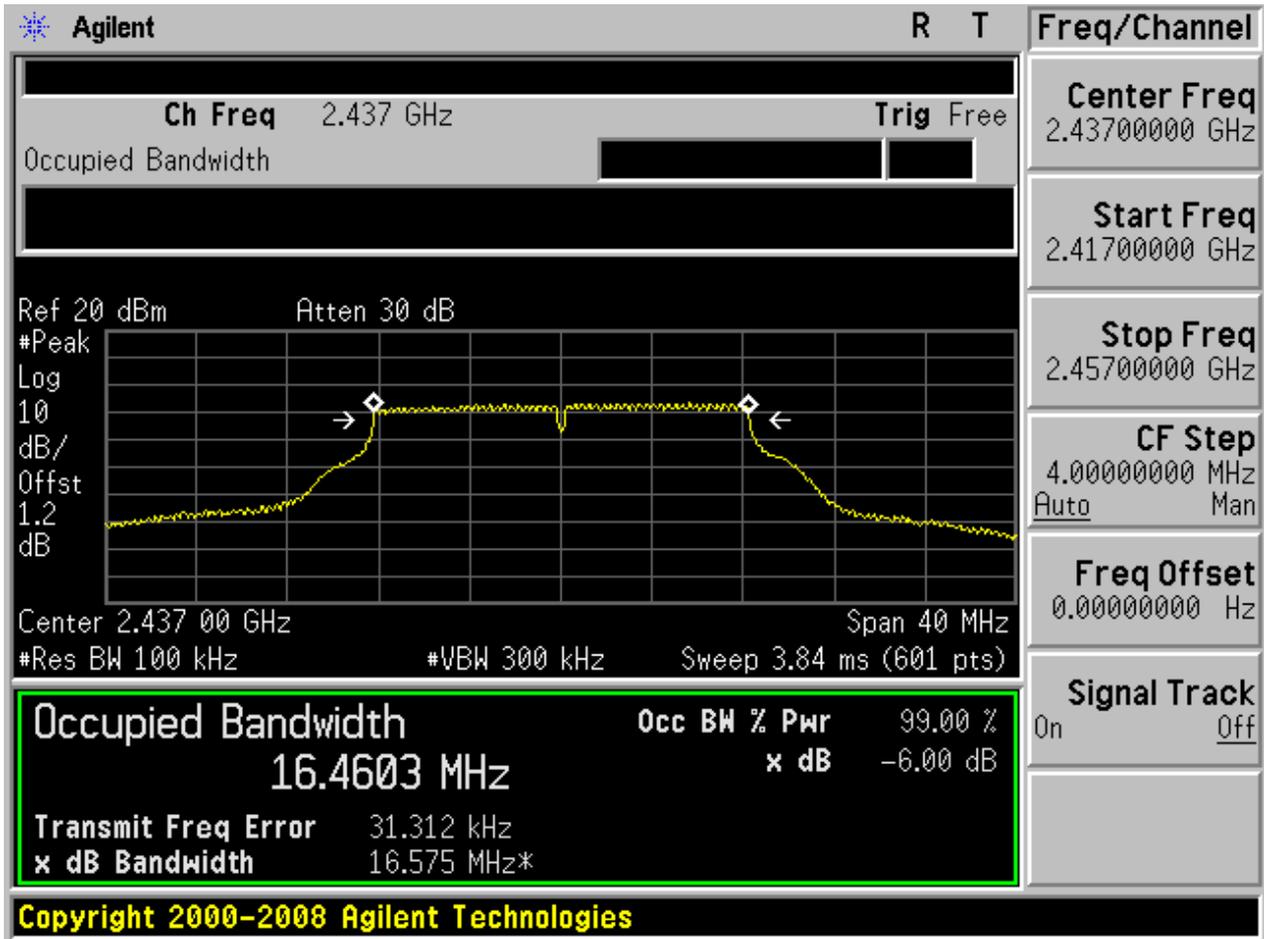


2.8 11G_L@Ant 2



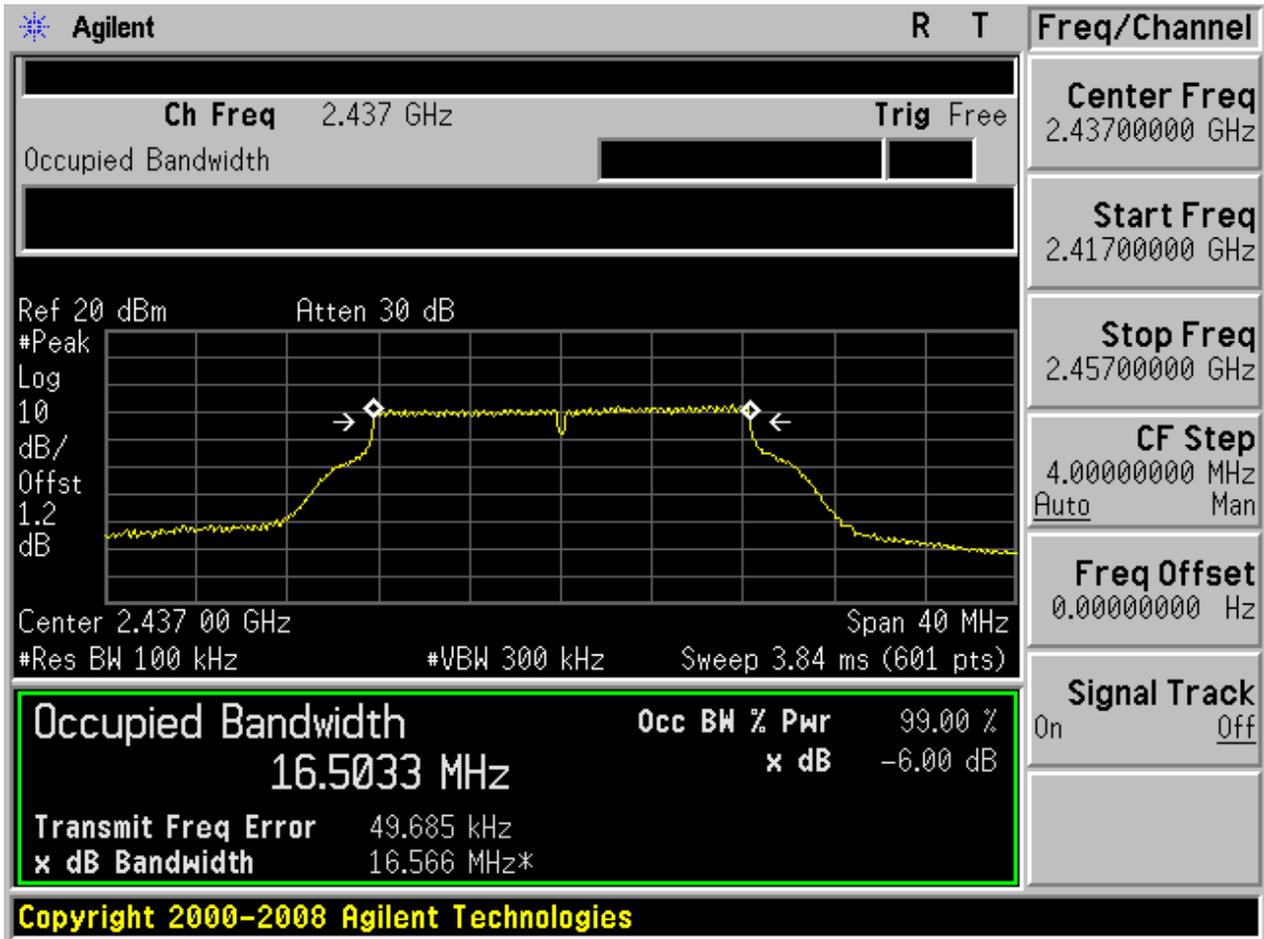


2.9 11G_M@Ant 1



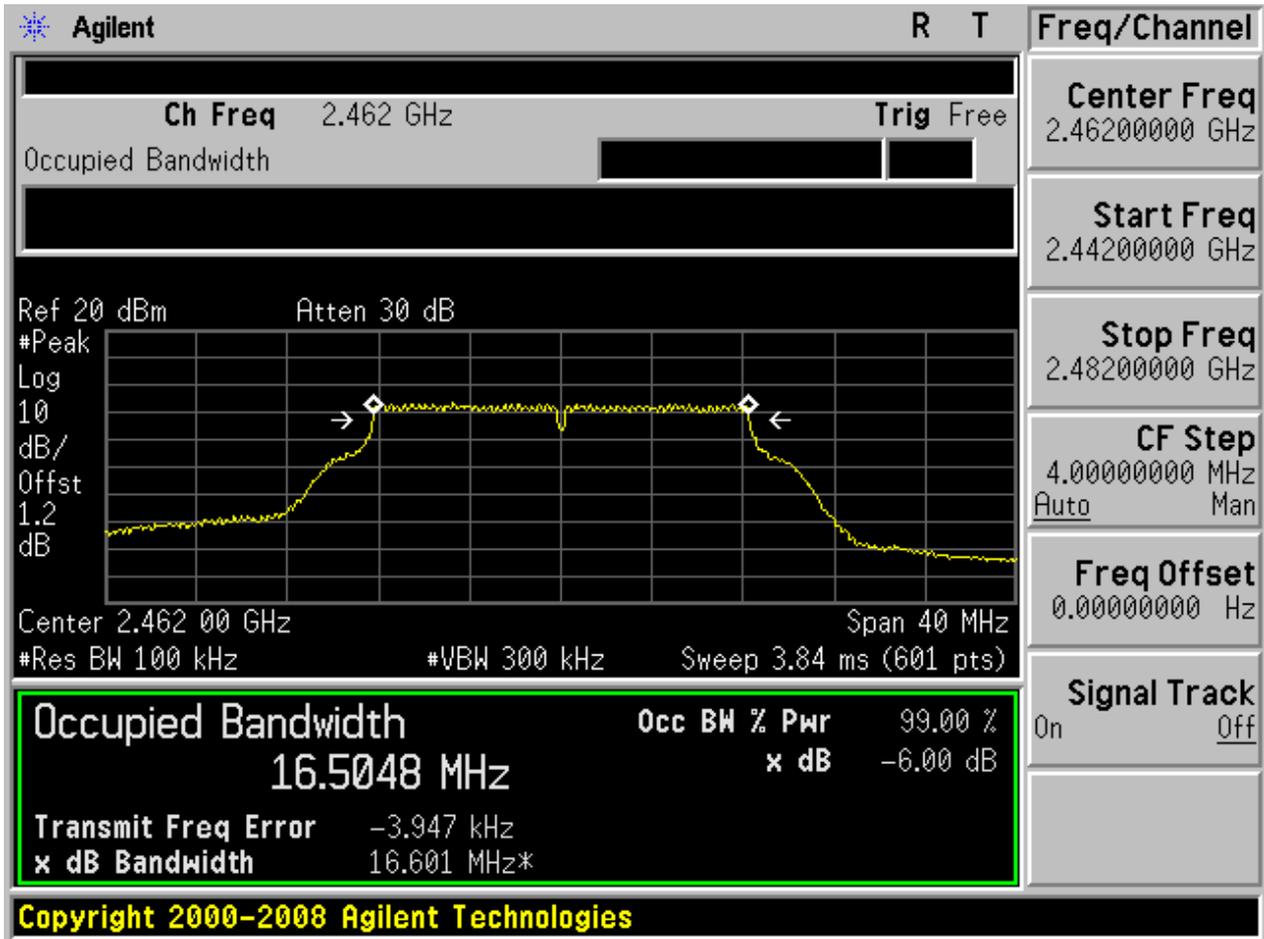


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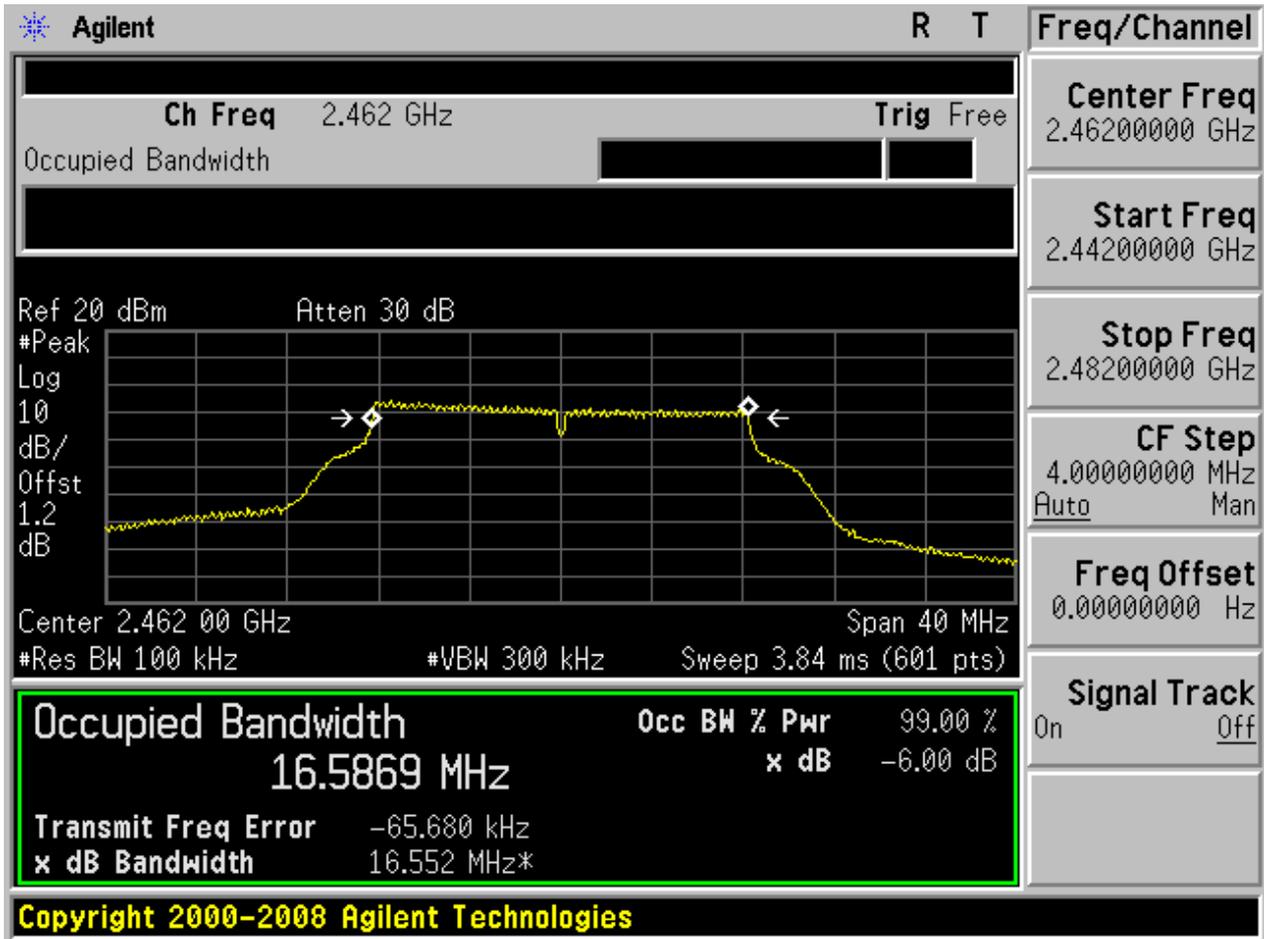


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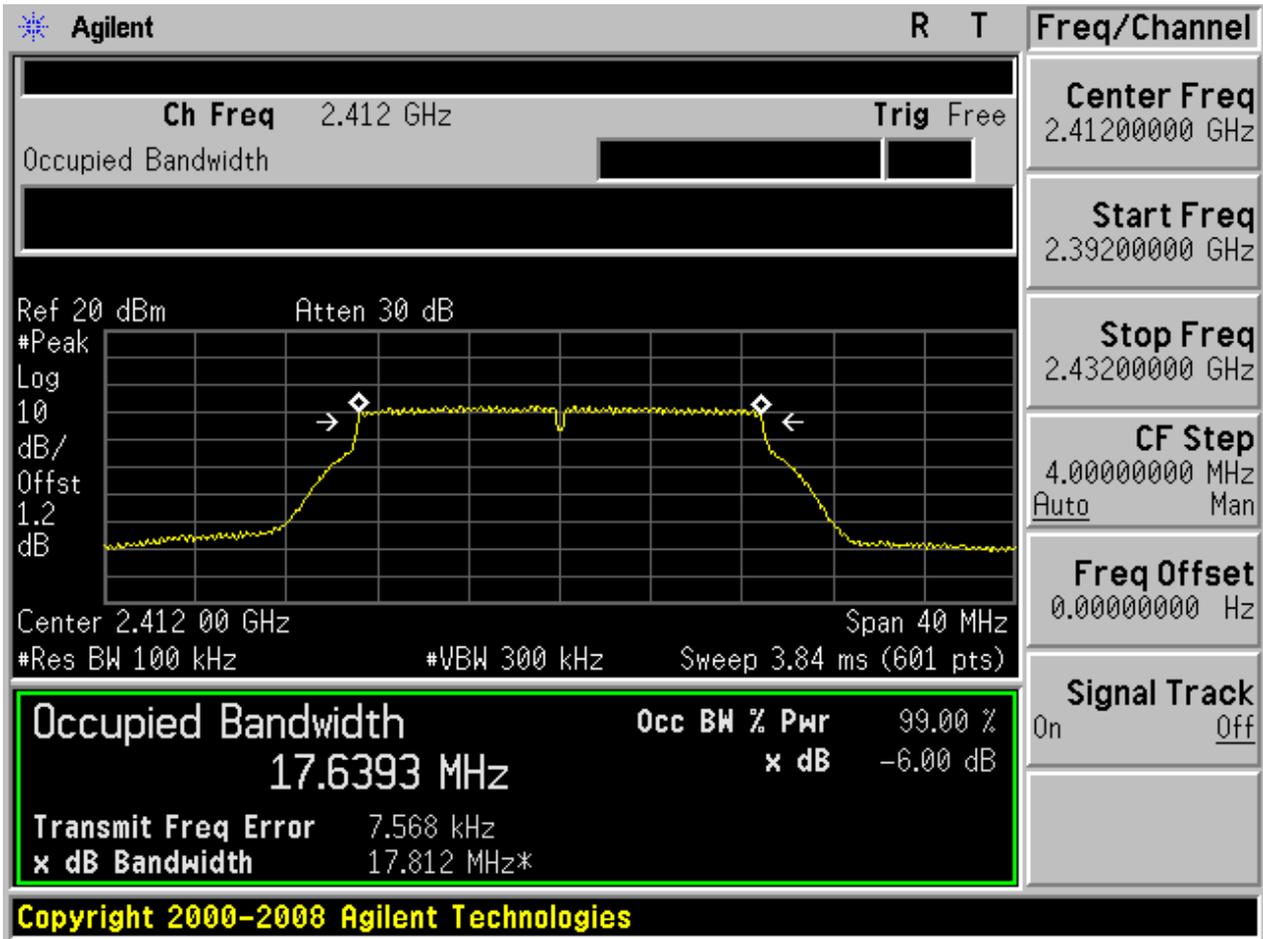


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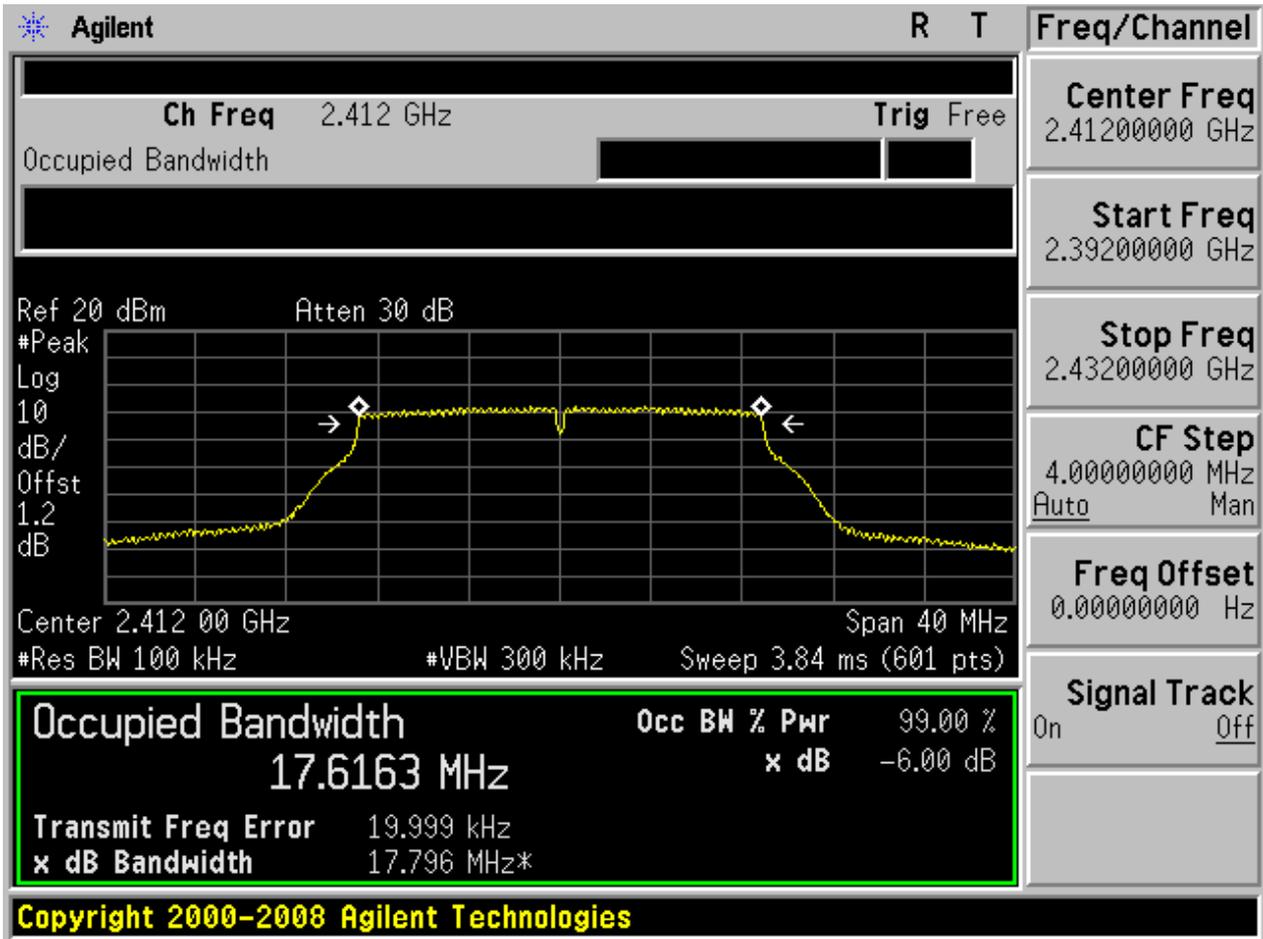


2.13 11N20_L@Ant 1



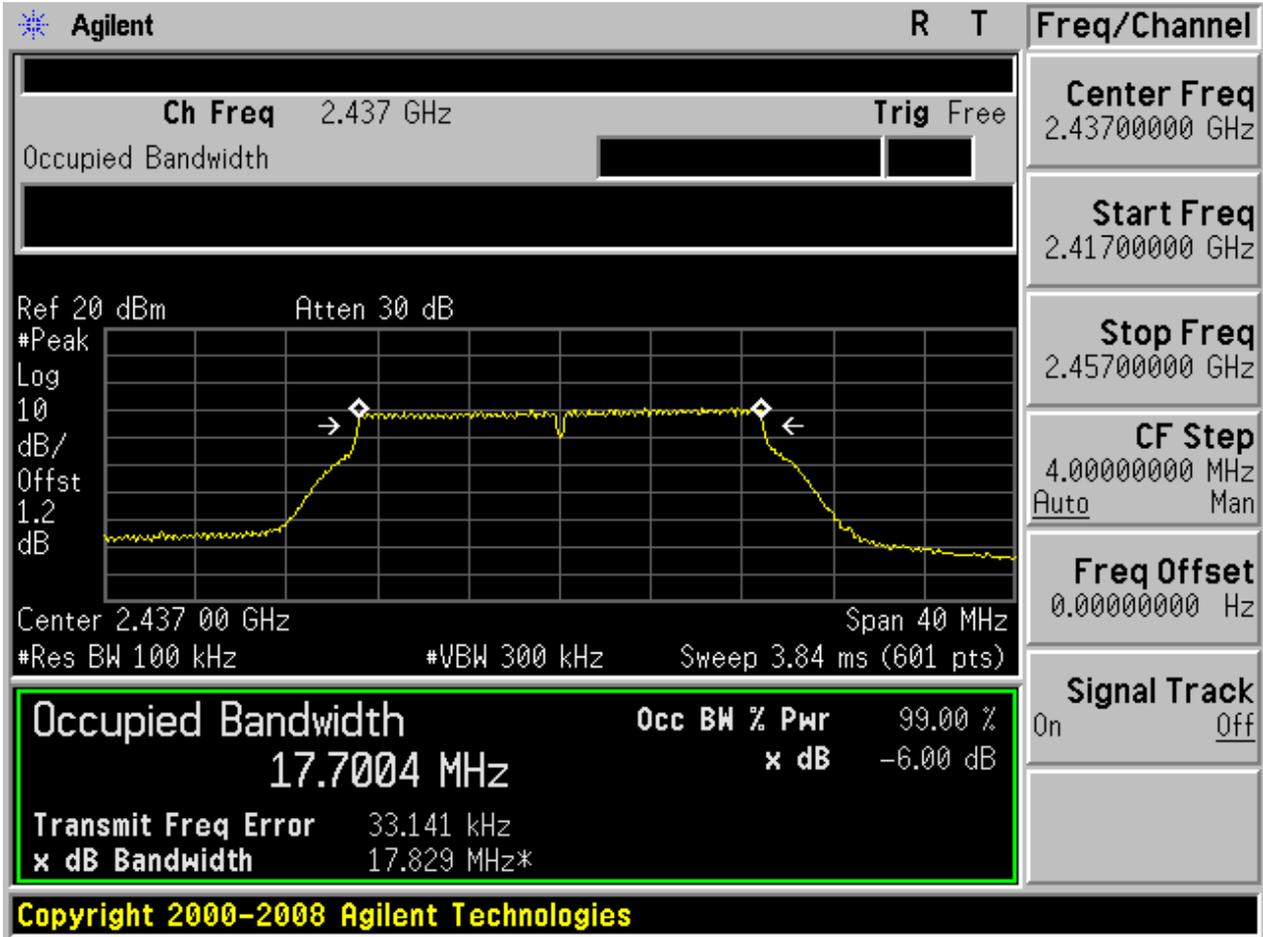


2.14 11N20_L@Ant 2



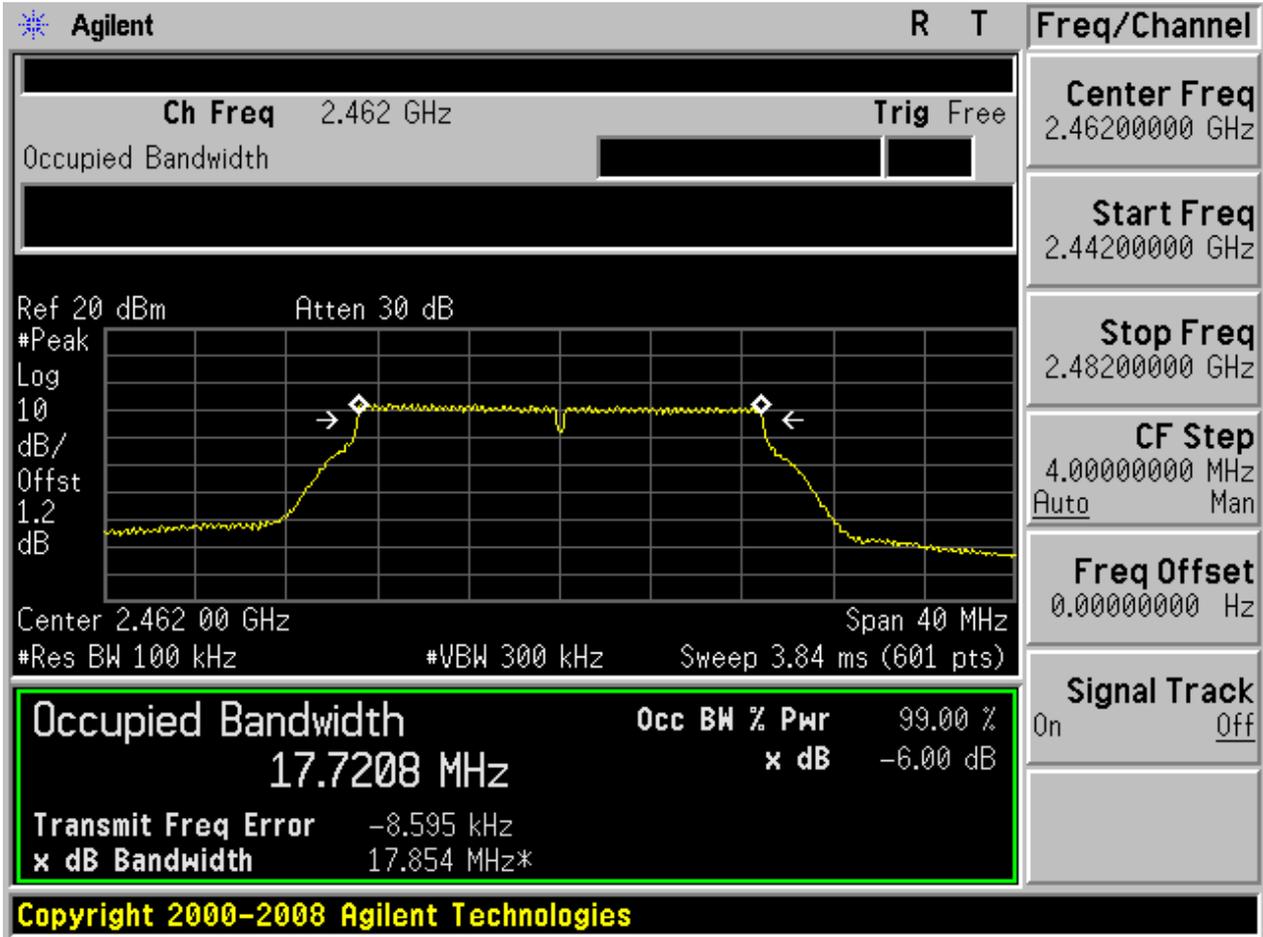


2.16 11N20_M@Ant 2



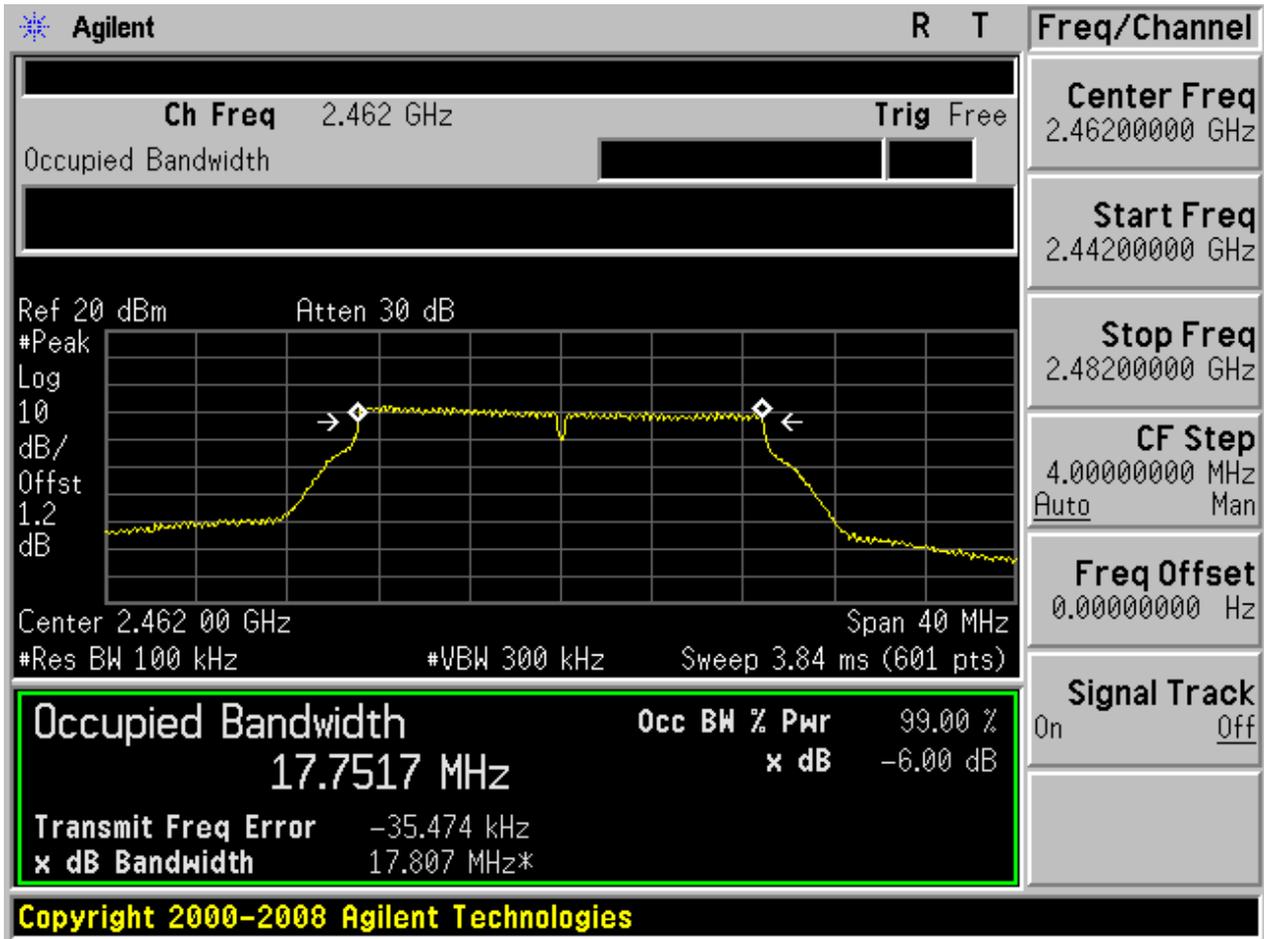


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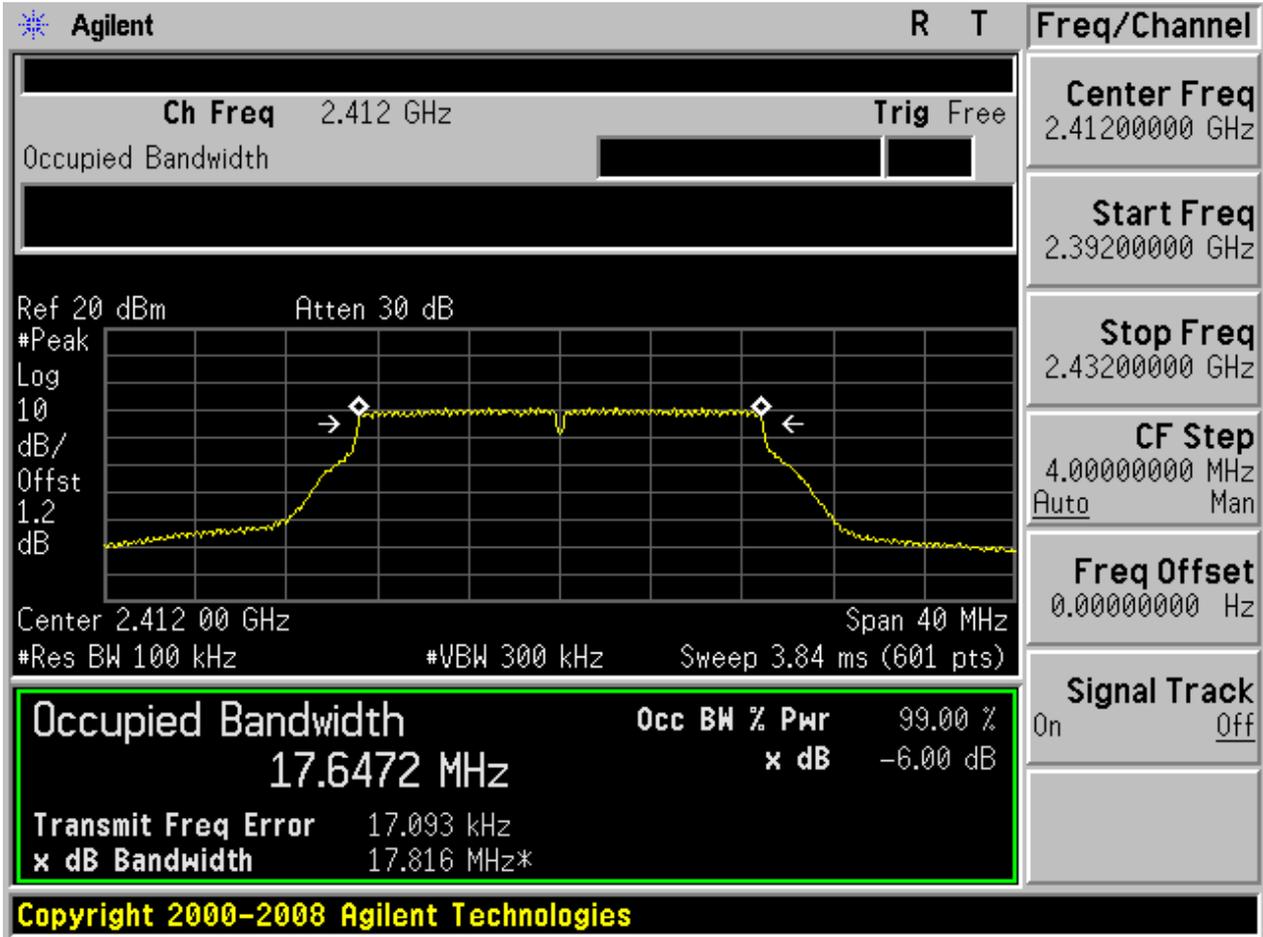


2.18 11N20_H@Ant 2



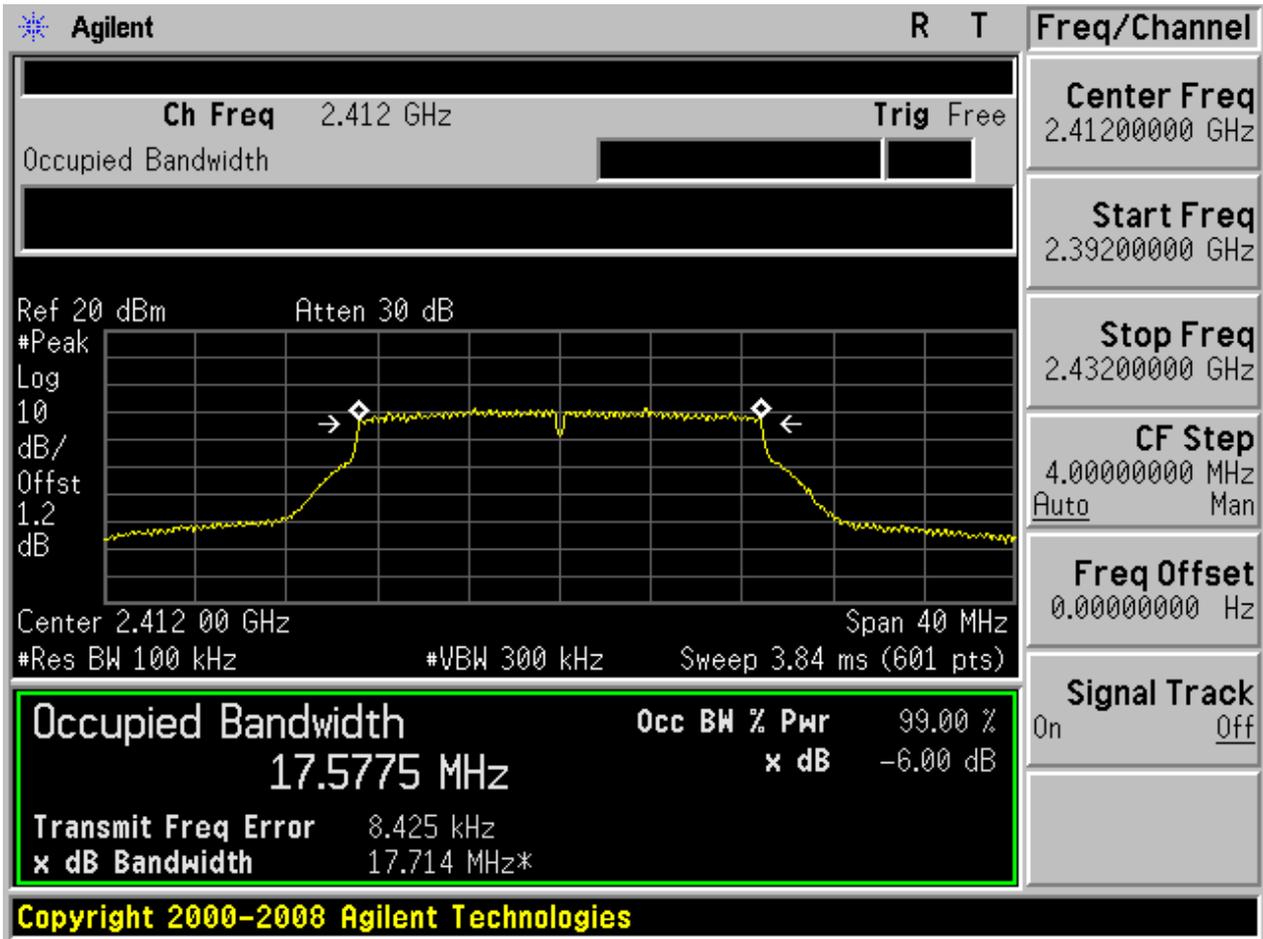


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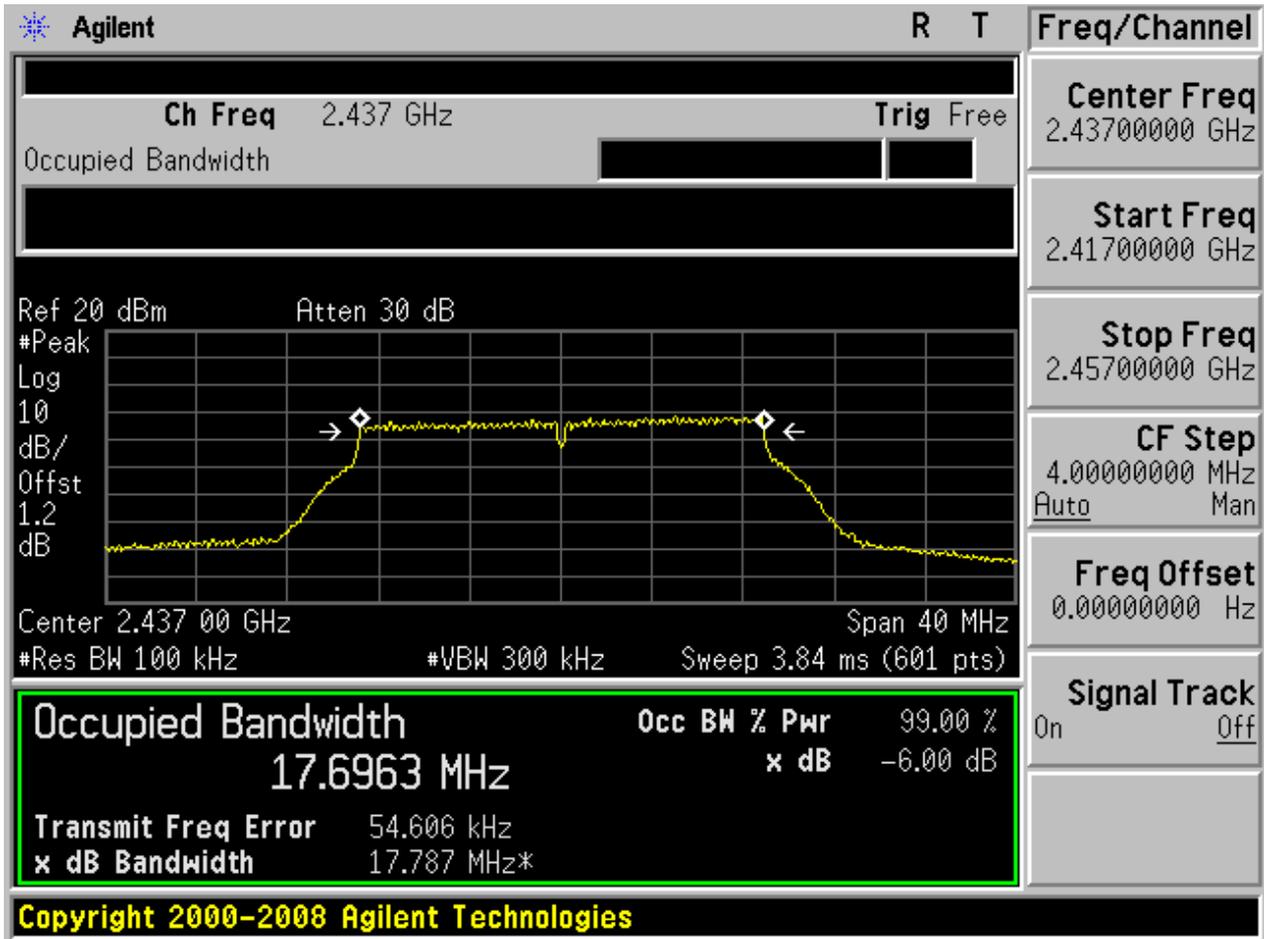


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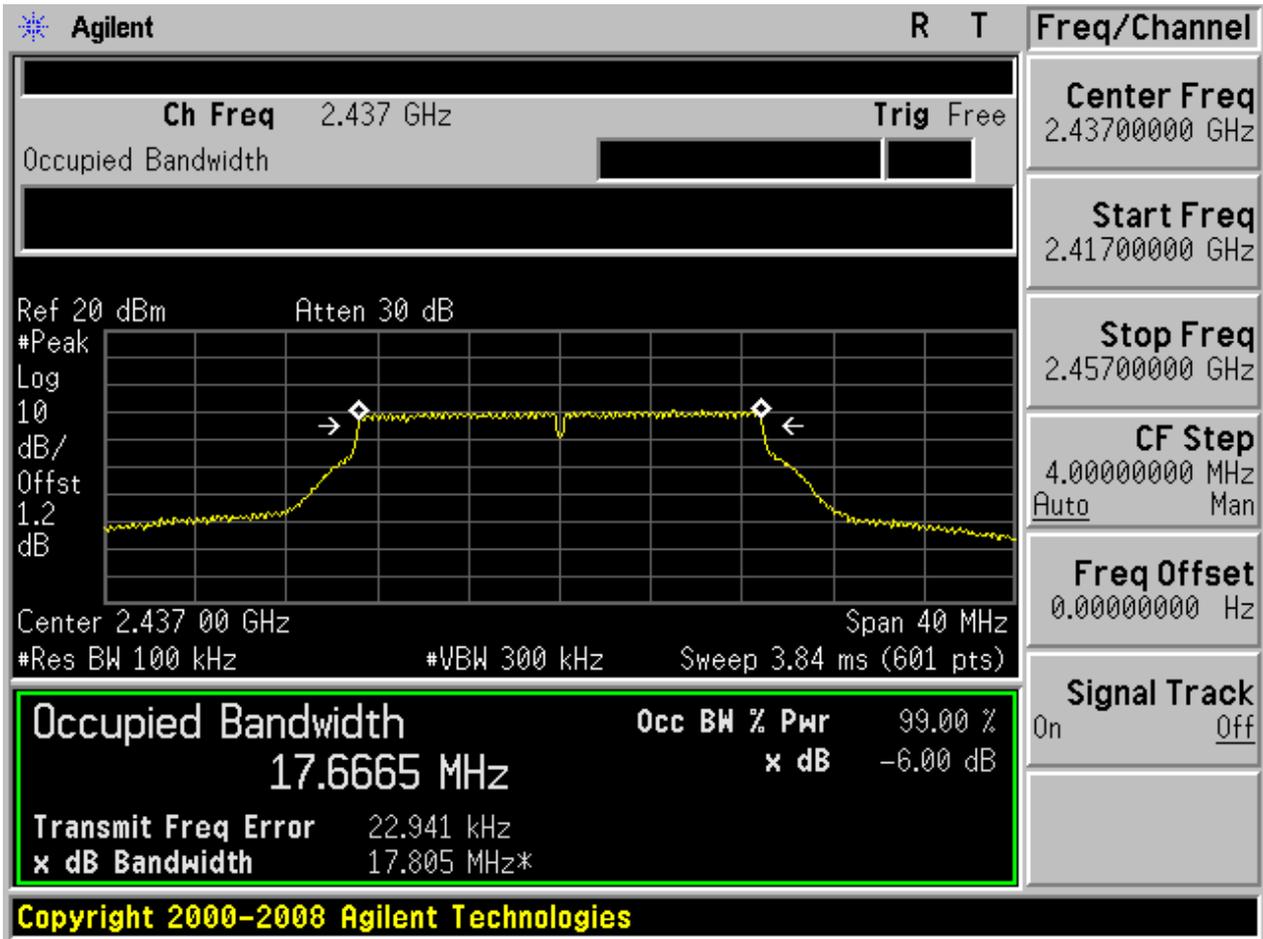


2.22 11N20m_M@Ant 2



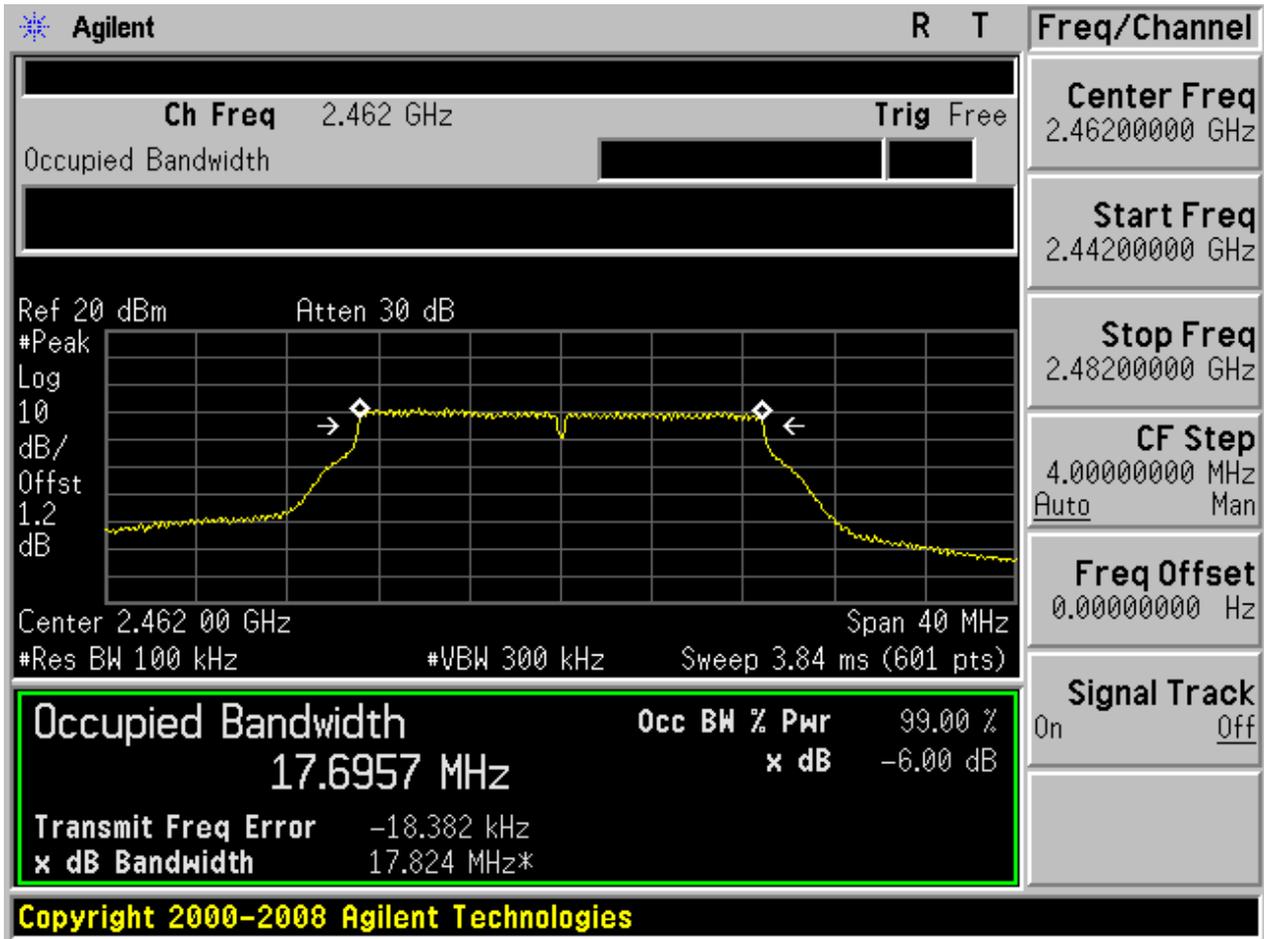


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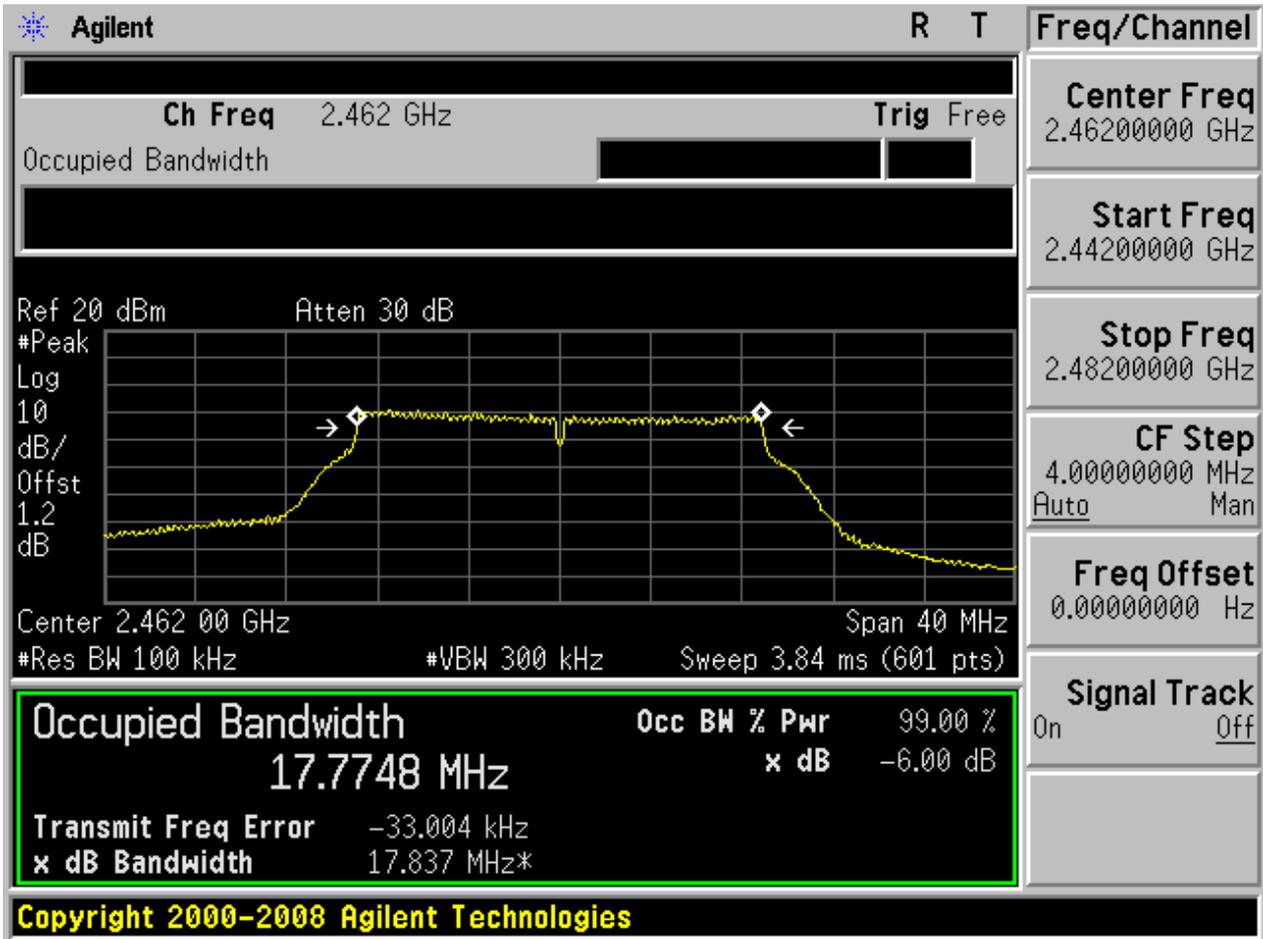


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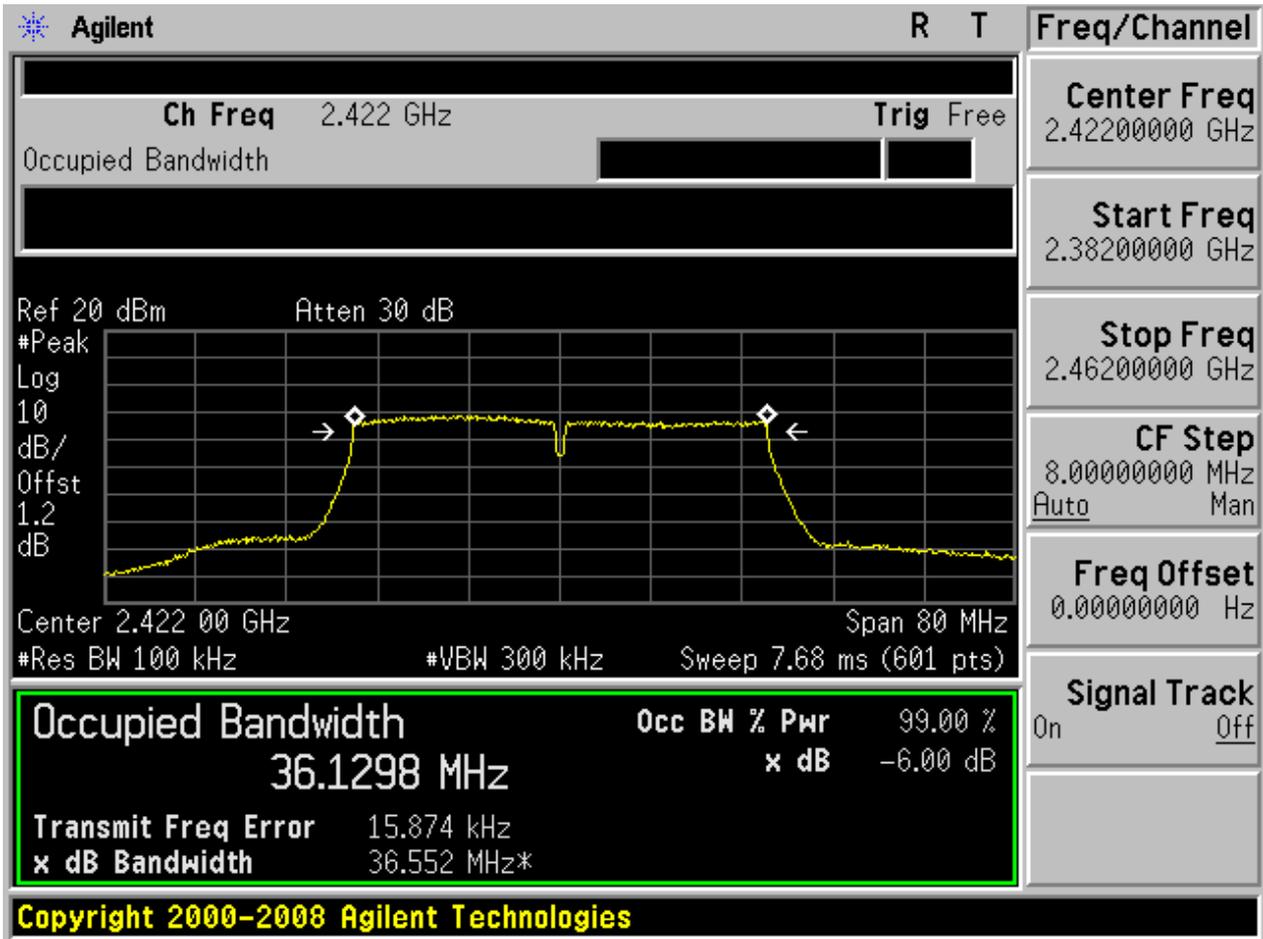


2.24 11N20m_H@Ant 2



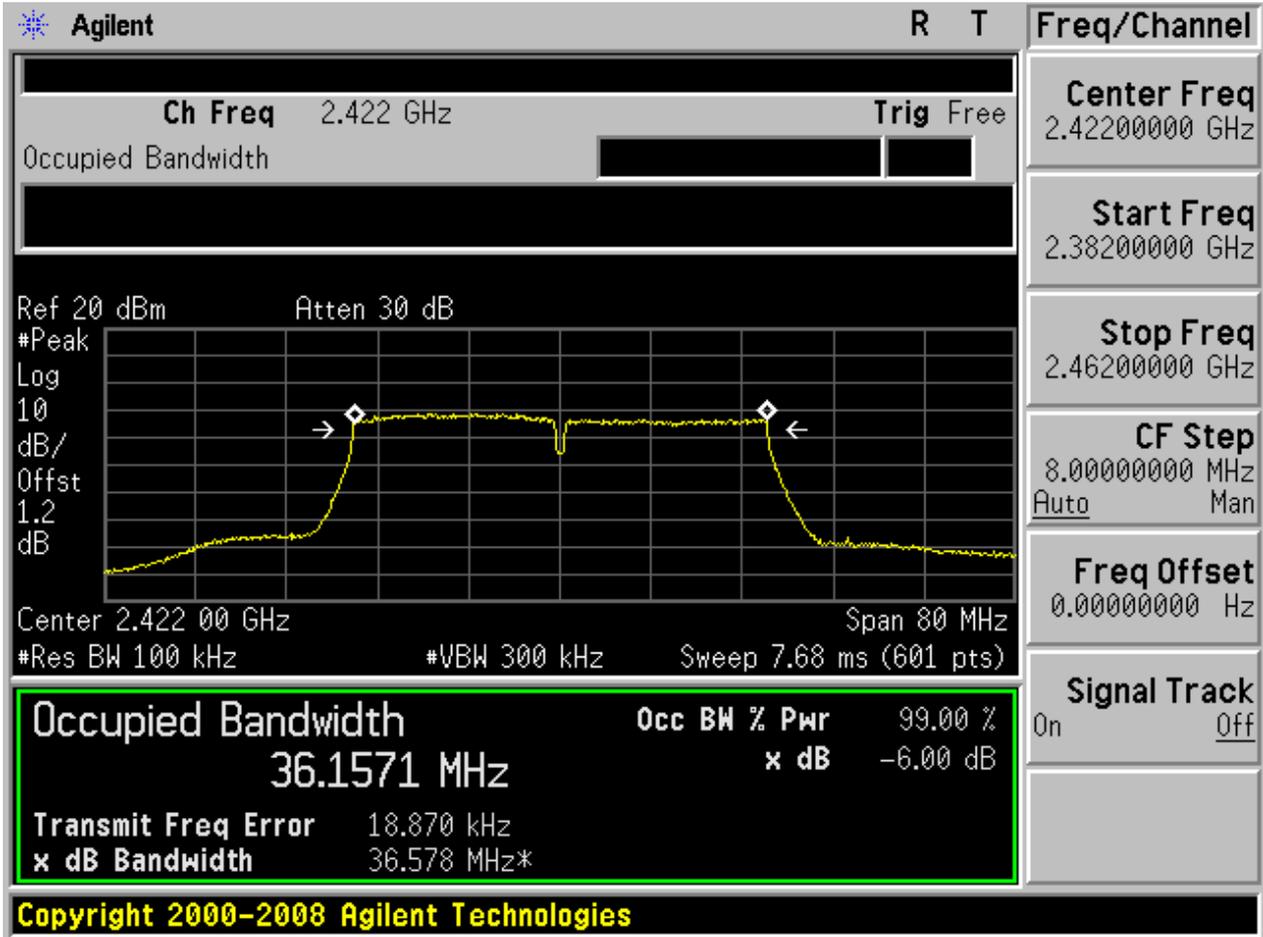


2.25 11N40_L@Ant 1



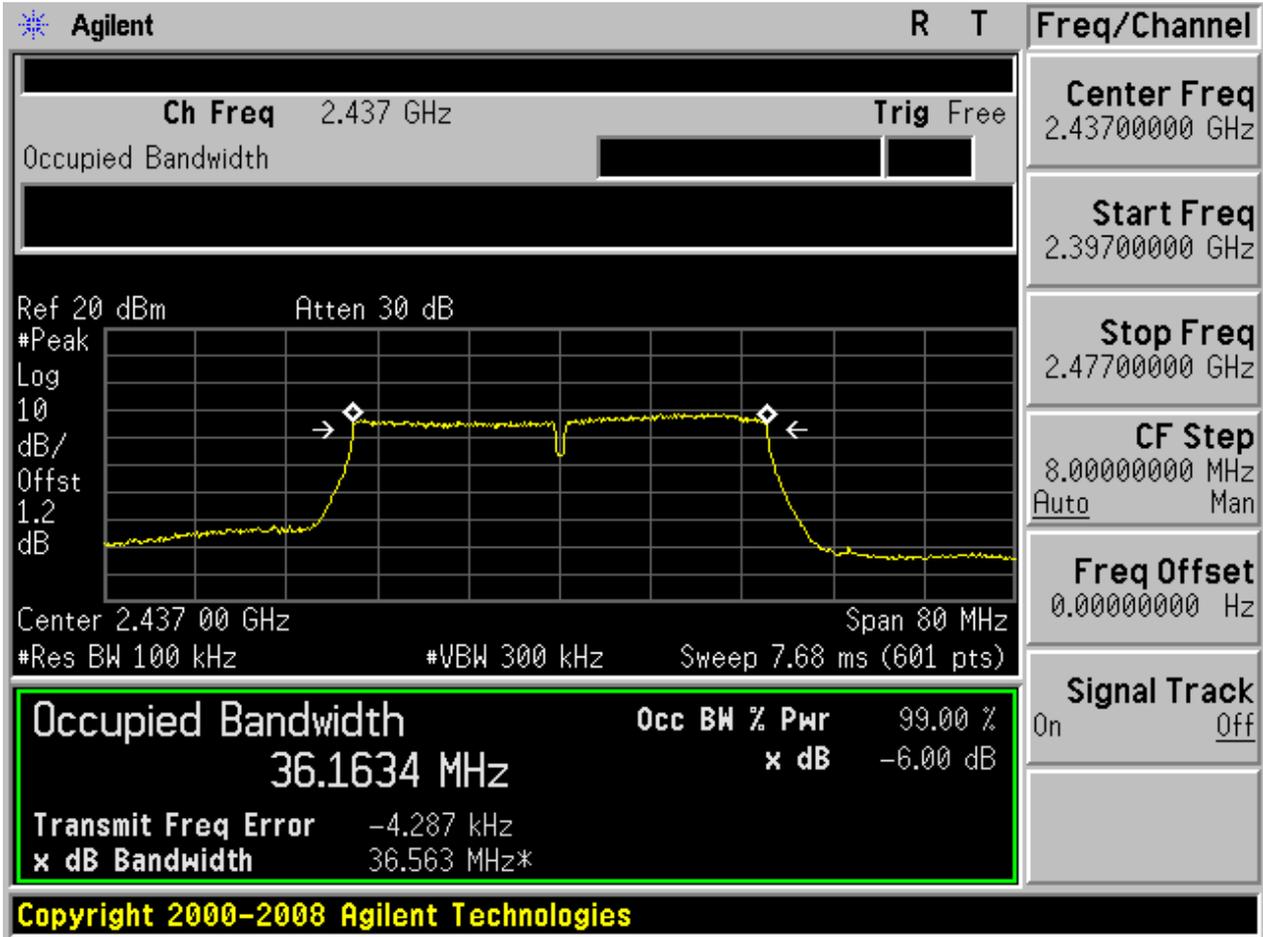


2.26 11N40_L@Ant 2



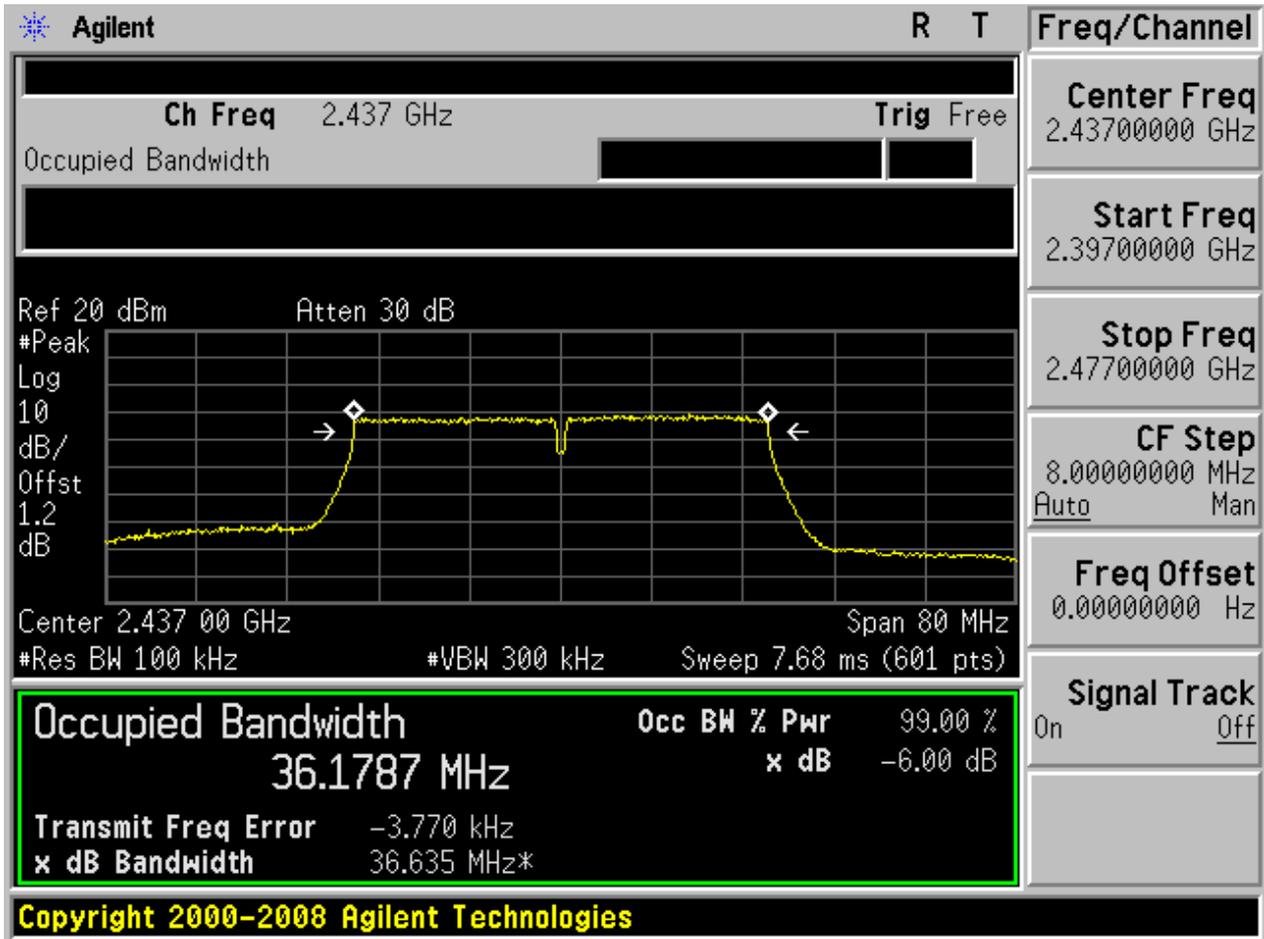


2.28 11N40_M@Ant 1



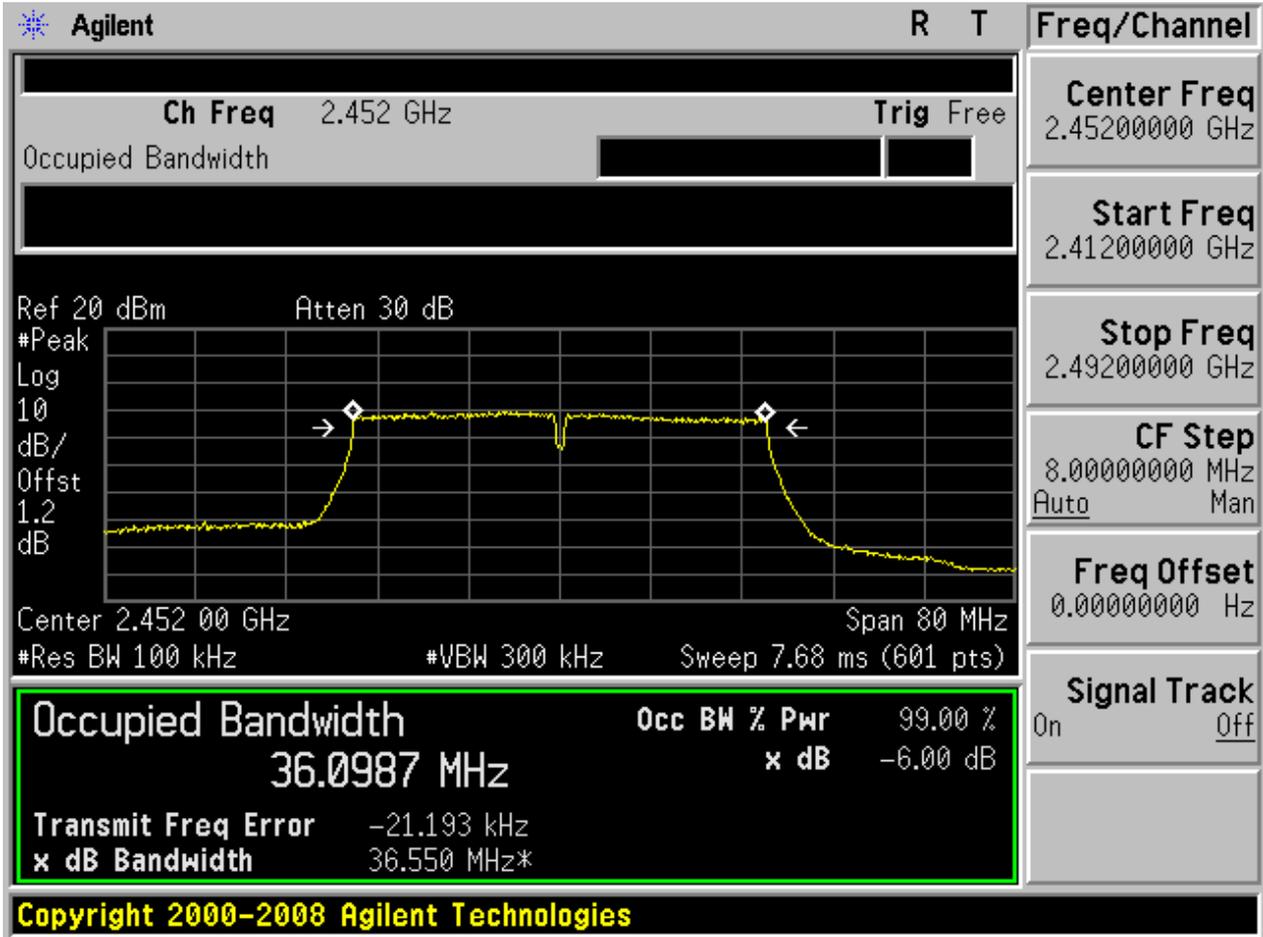


2.27 11N40_M@Ant 2



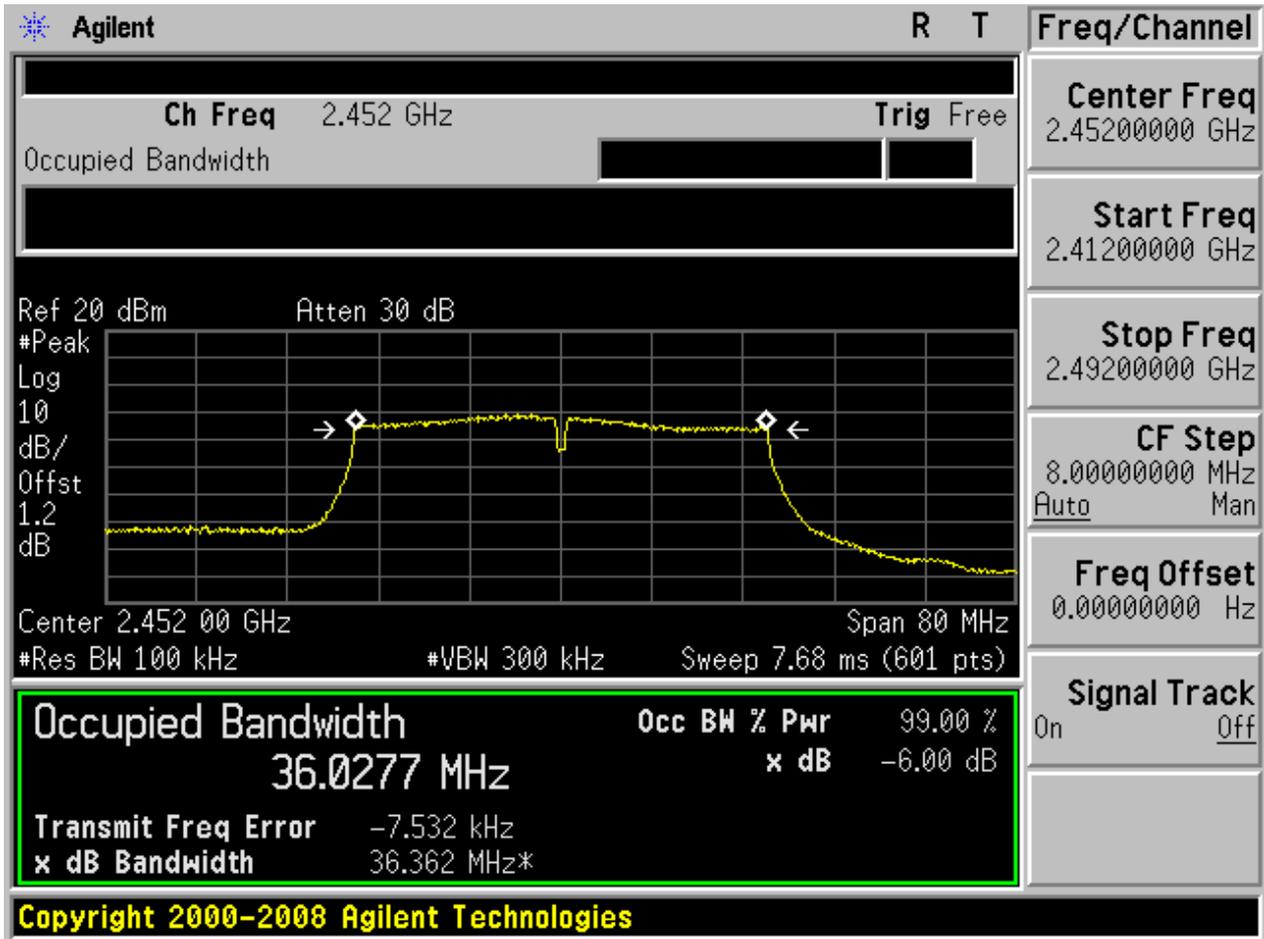


2.29 11N40_H@Ant 1



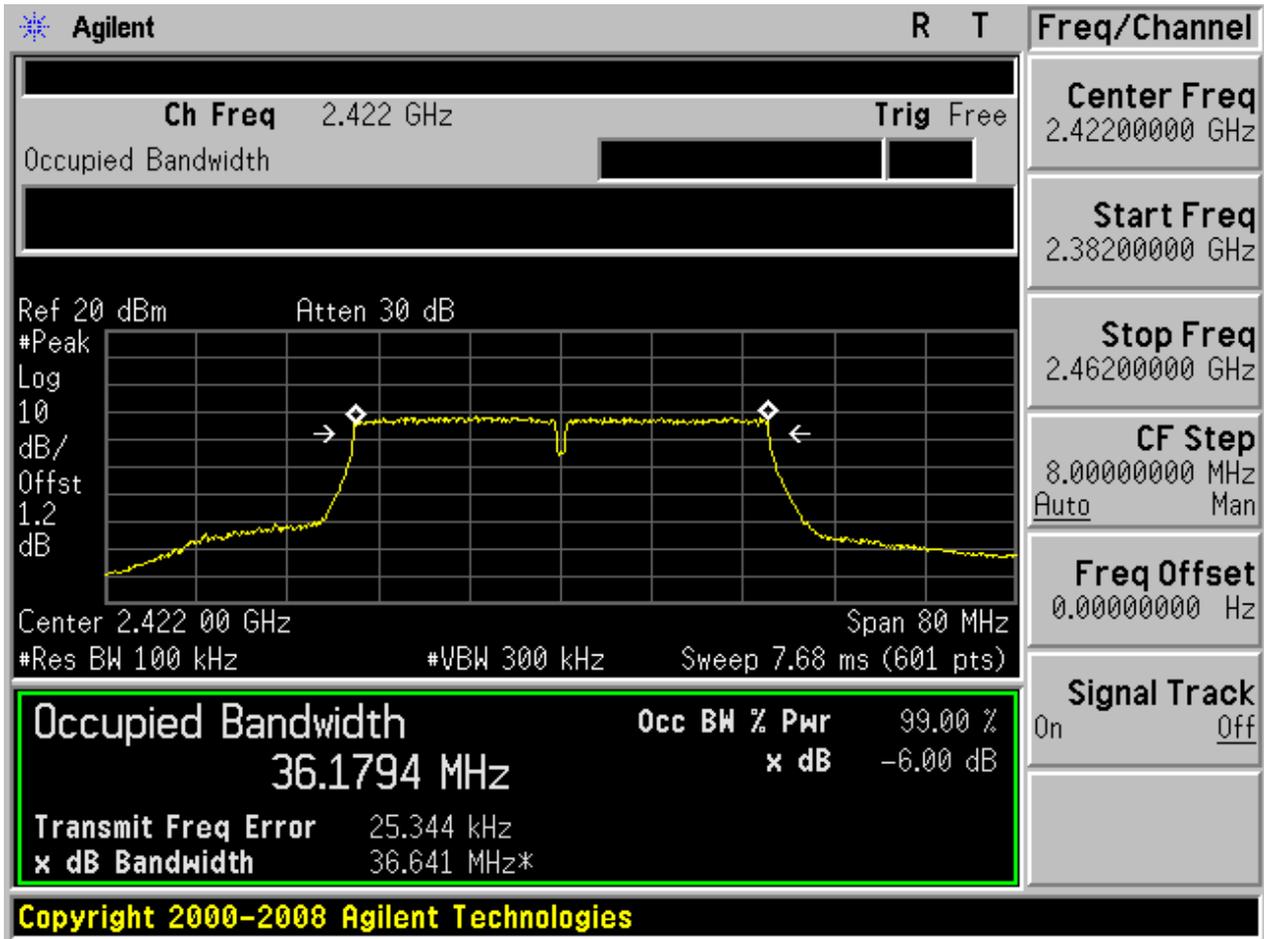


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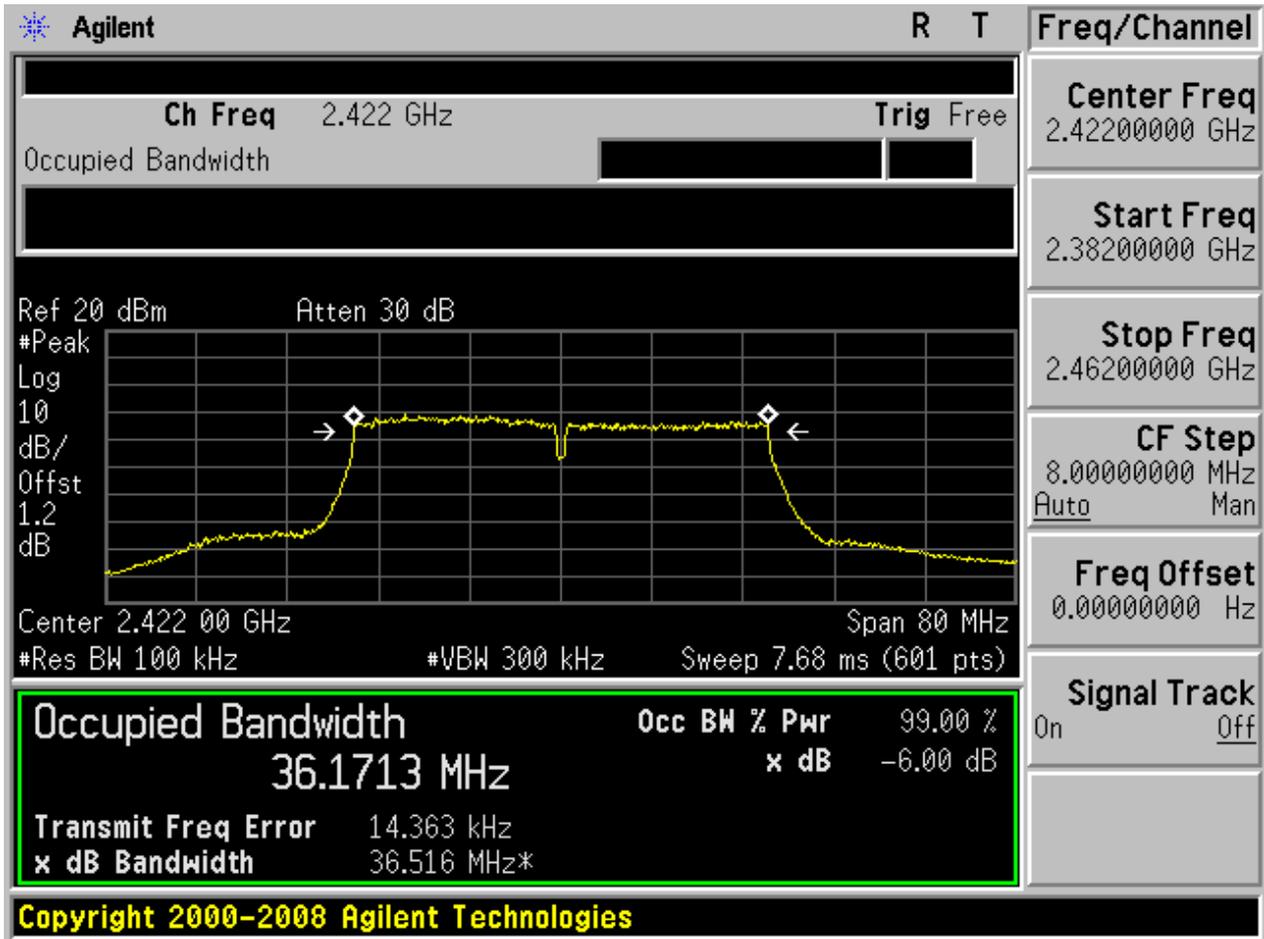


2.31 11N40m_L@Ant 1



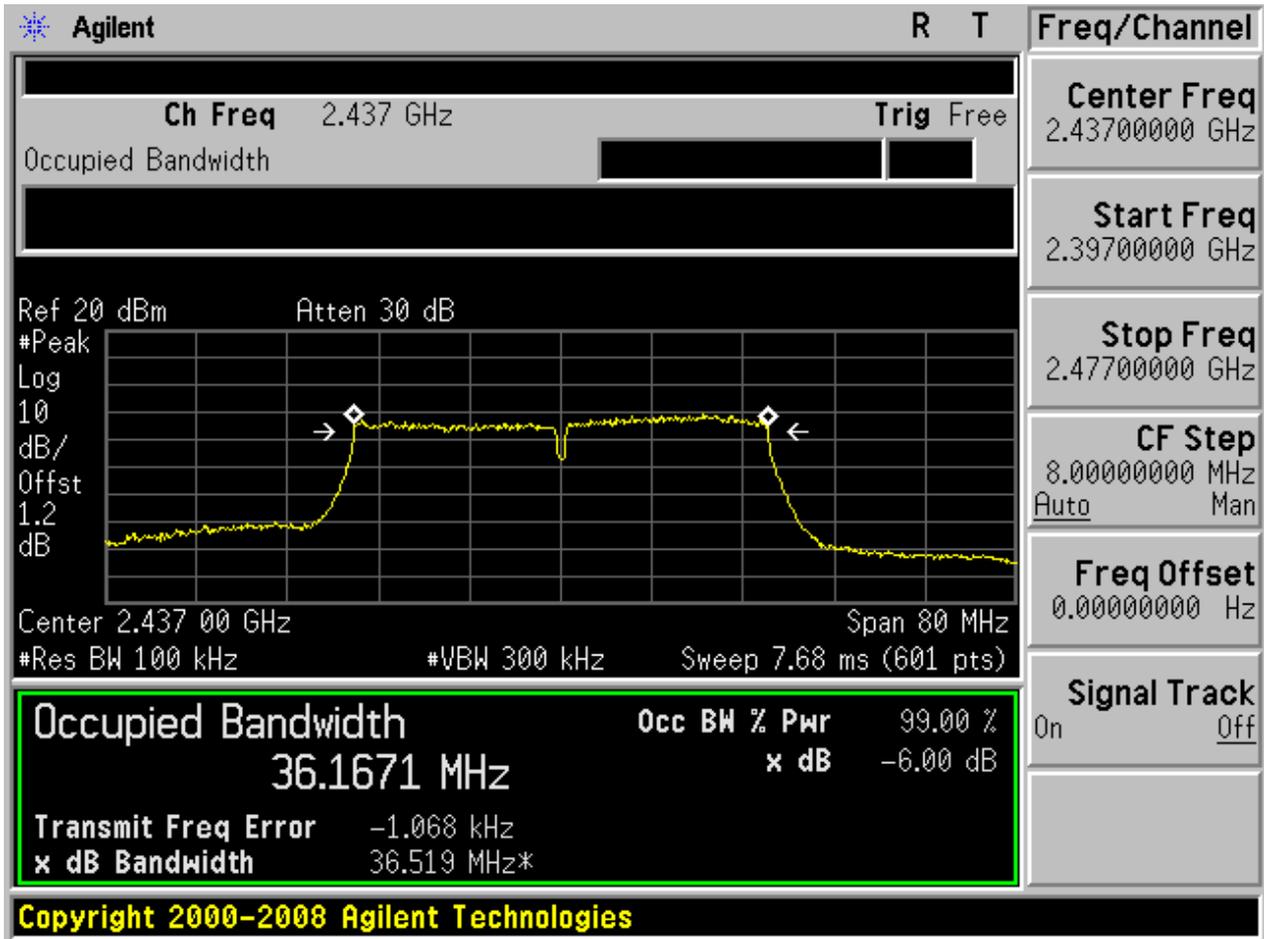


2.32 11N40m_L@Ant 2



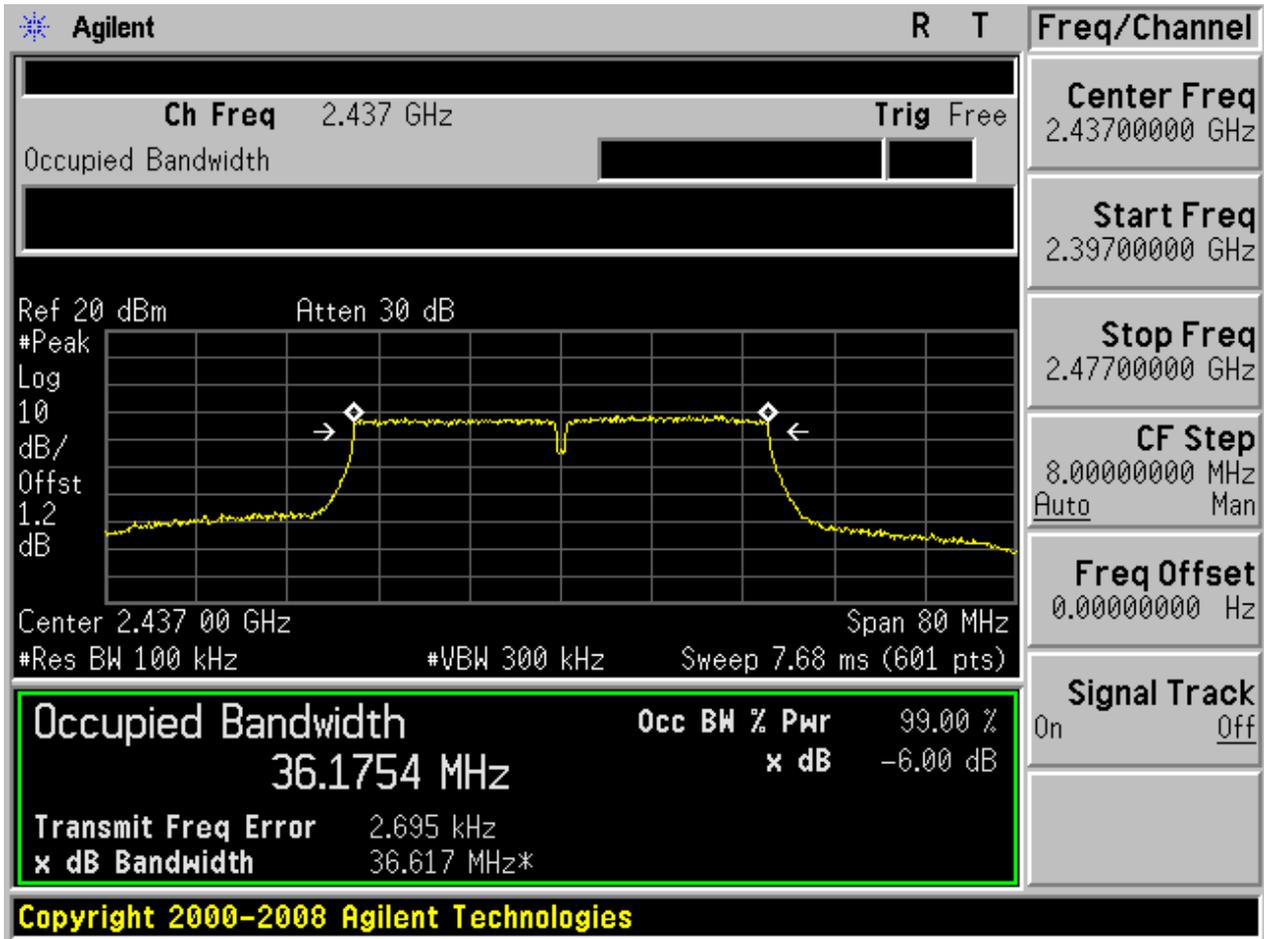


2.34 11N40m_M@Ant 1



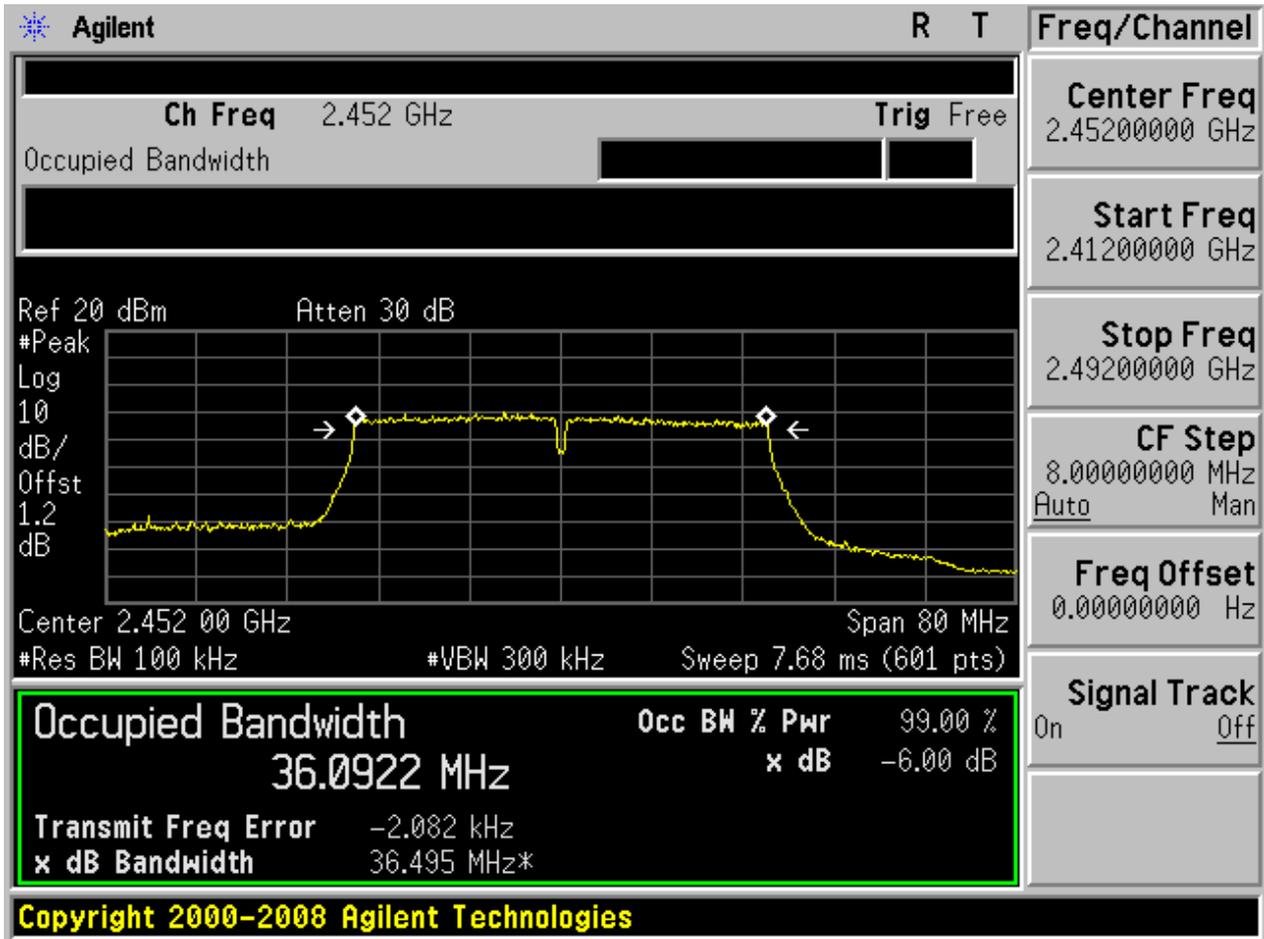


2.33 11N40m_M@Ant 2



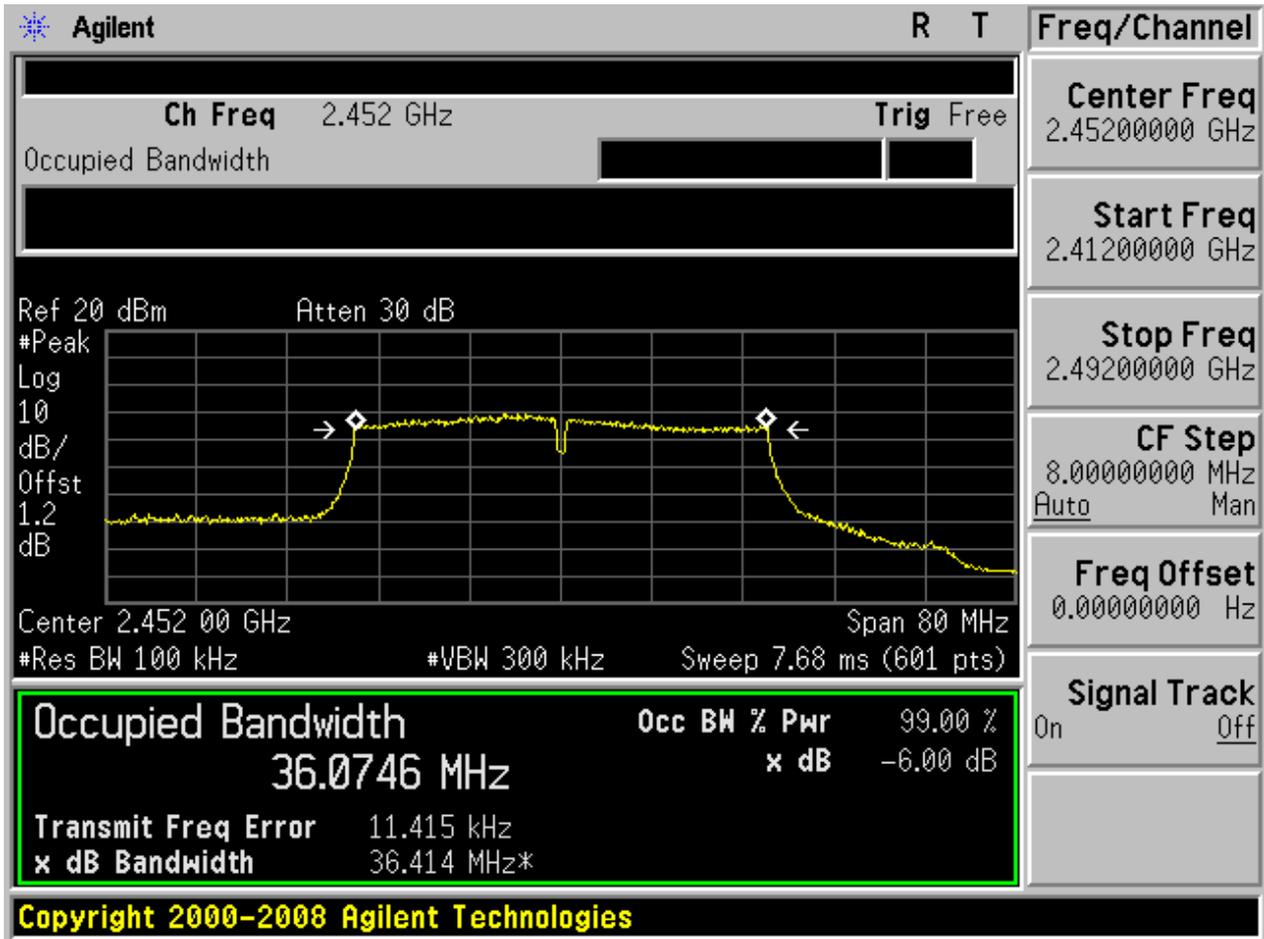


2.35 11N40m_H@Ant 1





2.36 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

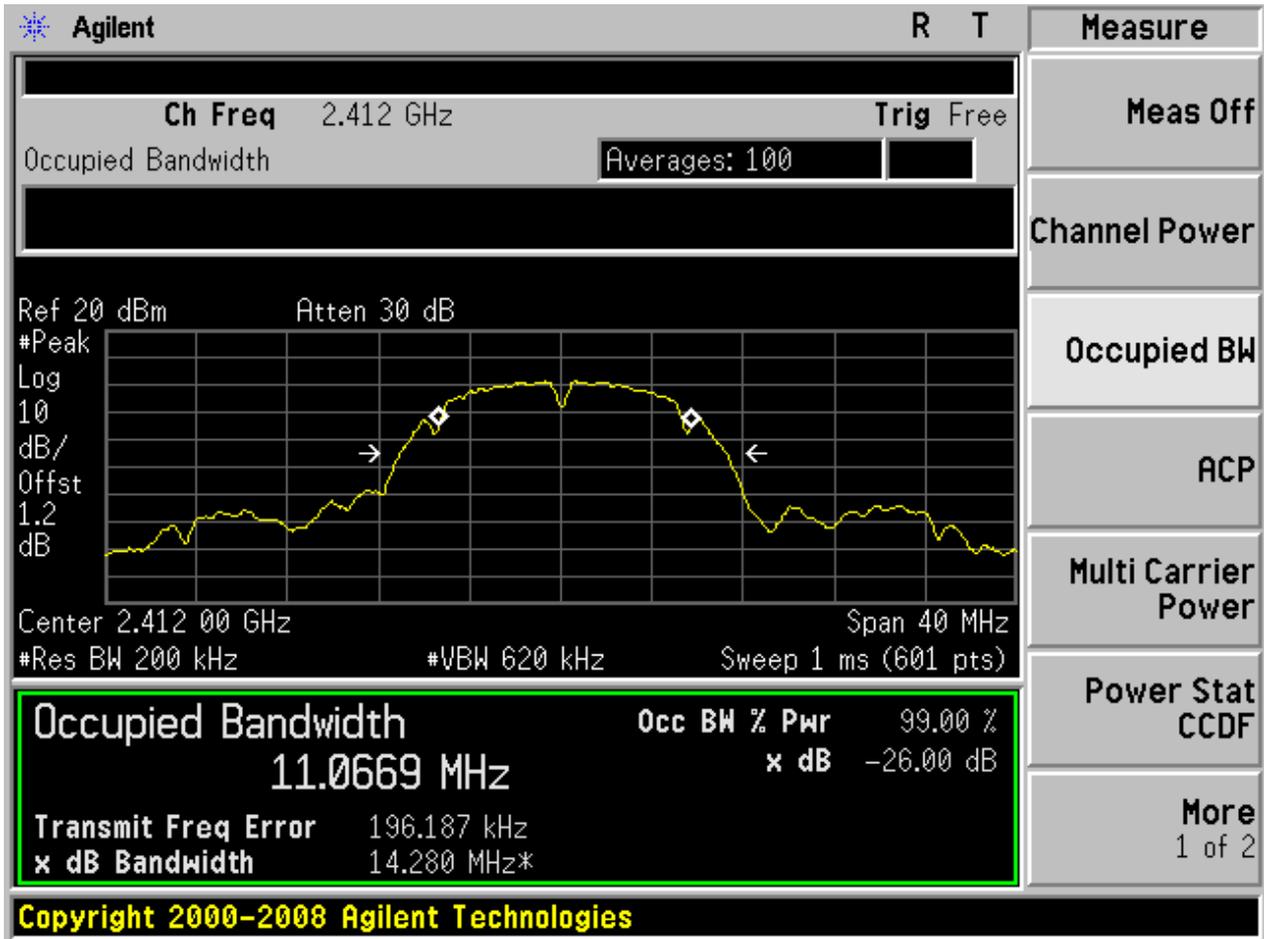
Test Mode	Test Channel	Frequency[MHz]	Ant	Occupied Bandwidth [MHz]	Verdict
11B	L	2412	Ant 1	11.01	pass
11B	L	2412	Ant 2	11.07	pass
11B	M	2437	Ant 1	11.48	pass
11B	M	2437	Ant 2	11.53	pass
11B	H	2462	Ant 1	11.40	pass
11B	H	2462	Ant 2	11.59	pass
11G	L	2412	Ant 1	16.49	pass
11G	L	2412	Ant 2	16.45	pass
11G	M	2437	Ant 1	16.51	pass
11G	M	2437	Ant 2	16.59	pass
11G	H	2462	Ant 1	16.58	pass
11G	H	2462	Ant 2	16.69	pass
11N20	L	2412	Ant 1	17.69	pass
11N20	L	2412	Ant 2	17.66	pass
11N20	M	2437	Ant 1	17.72	pass
11N20	M	2437	Ant 2	17.76	pass
11N20	H	2462	Ant 1	17.78	pass
11N20	H	2462	Ant 2	17.81	pass
11N20m	L	2412	Ant 1	17.72	pass
11N20m	L	2412	Ant 2	17.62	pass
11N20m	M	2437	Ant 1	17.73	pass
11N20m	M	2437	Ant 2	17.69	pass
11N20m	H	2462	Ant 1	17.73	pass
11N20m	H	2462	Ant 2	17.85	pass
11N40	L	2422	Ant 1	36.03	pass
11N40	L	2422	Ant 2	36.11	pass
11N40	M	2437	Ant 1	36.22	pass
11N40	M	2437	Ant 2	36.25	pass
11N40	H	2452	Ant 1	36.13	pass
11N40	H	2452	Ant 2	36.03	pass
11N40m	L	2422	Ant 1	36.13	pass
11N40m	L	2422	Ant 2	36.18	pass
11N40m	M	2437	Ant 2	36.16	pass
11N40m	M	2437	Ant 1	36.05	pass



Test Mode	Test Channel	Frequency[MHz]	Ant	Occupied Bandwidth [MHz]	Verdict
11N40m	H	2452	Ant 1	36.05	pass
11N40m	H	2452	Ant 2	36.01	pass

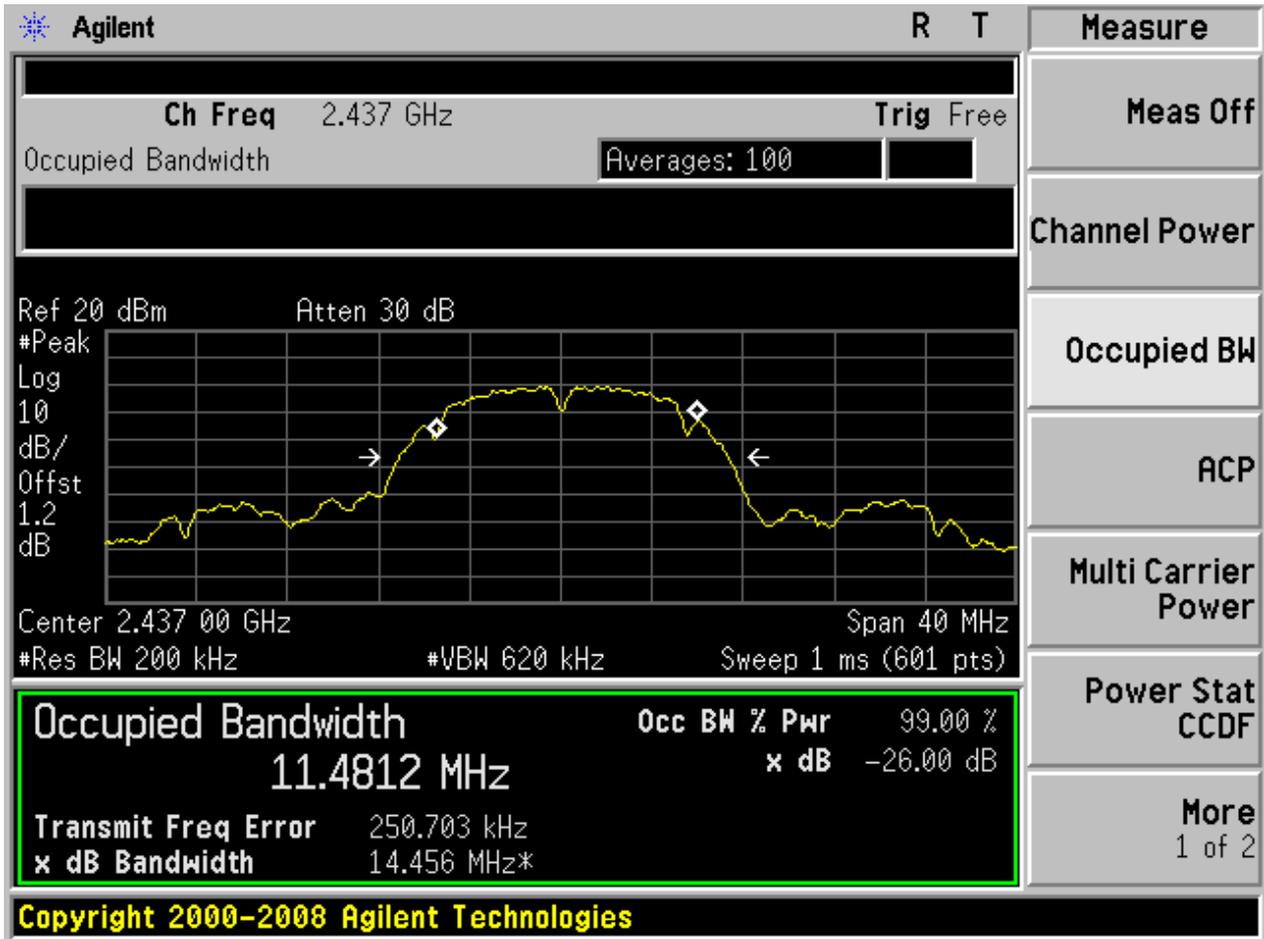


2.2 11B_L@Ant 2



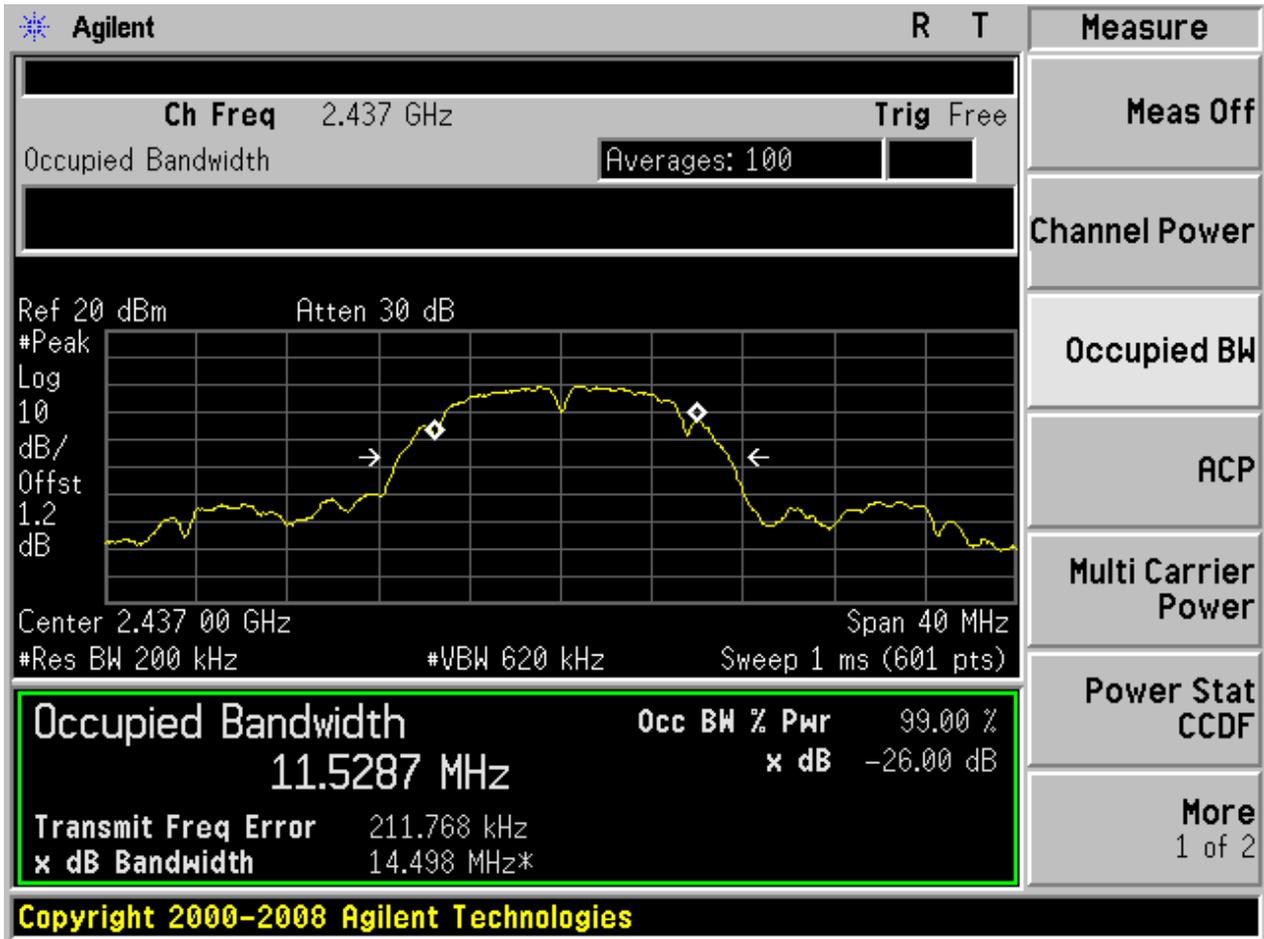


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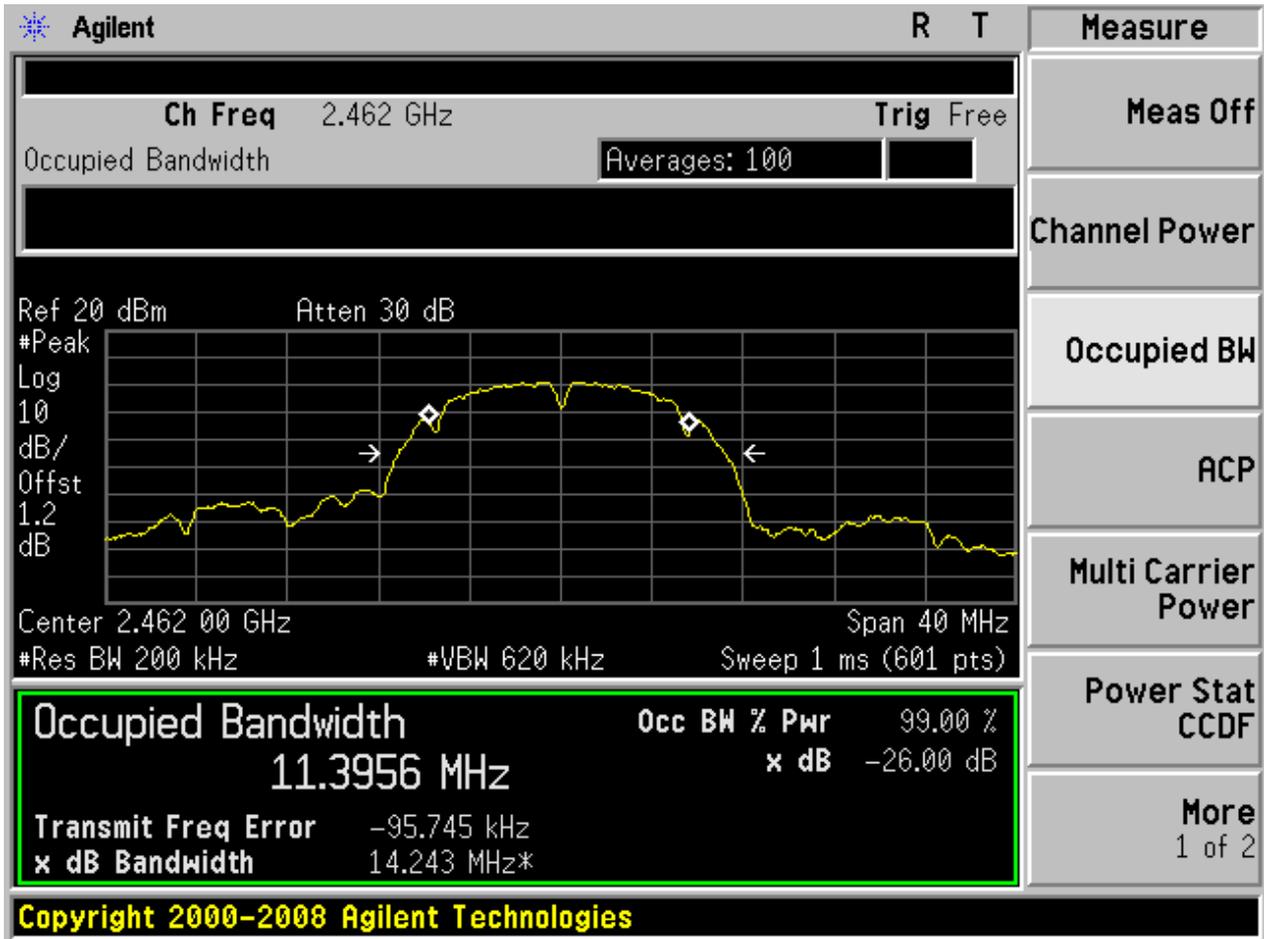


2.4 11B_M@Ant 2



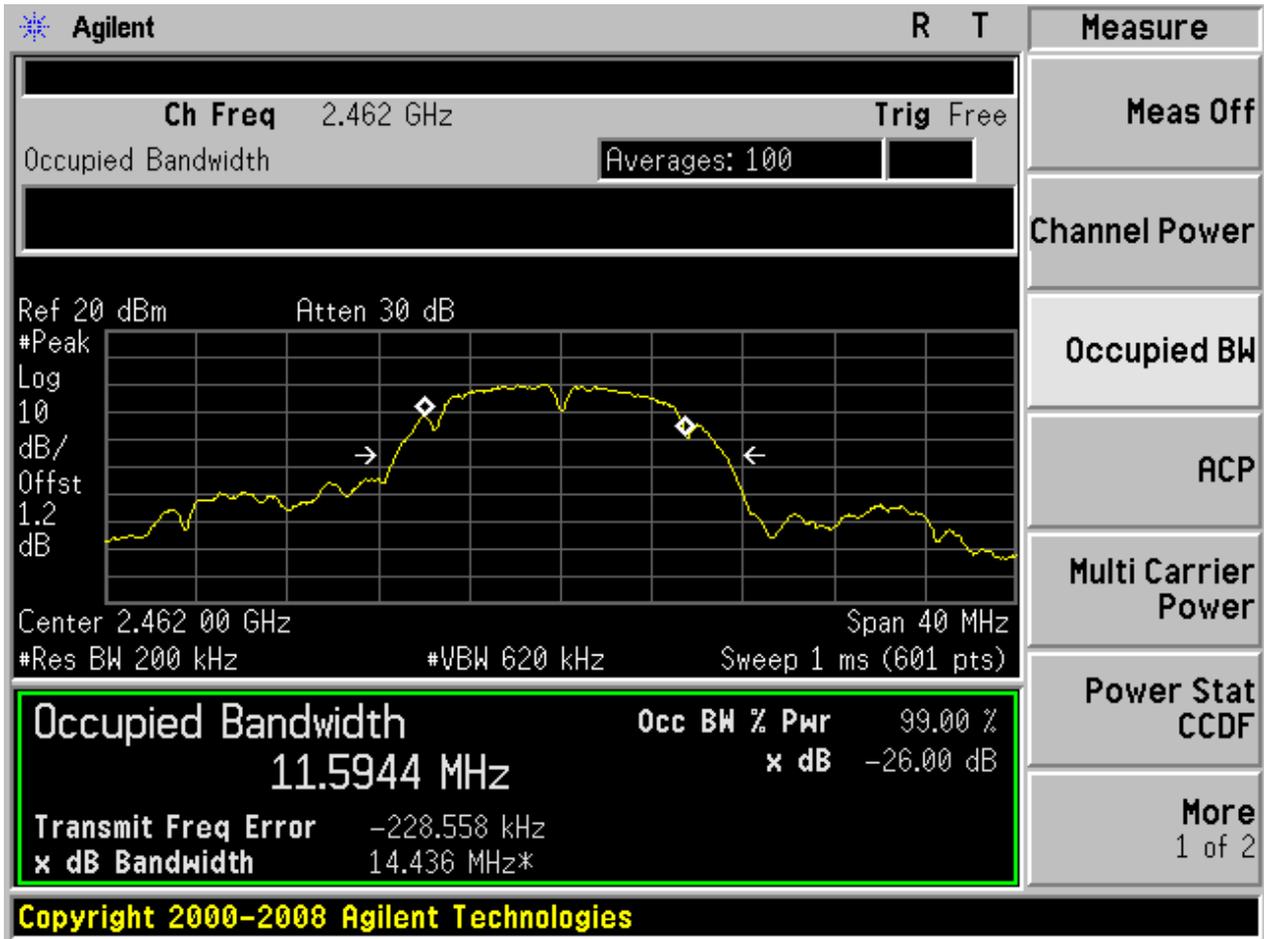


2.5 11B_H@Ant 1

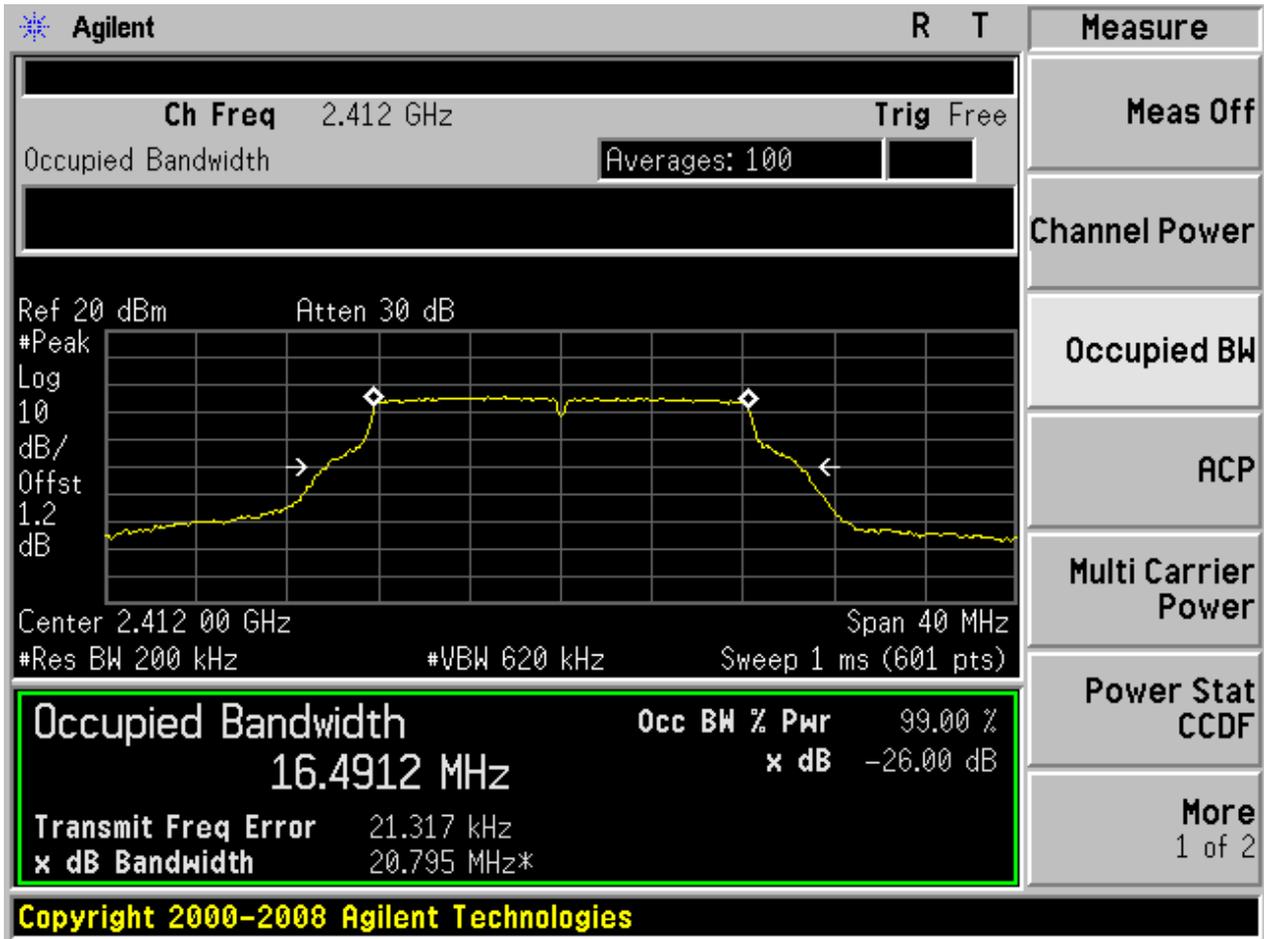




2.6 11B_H@Ant 2

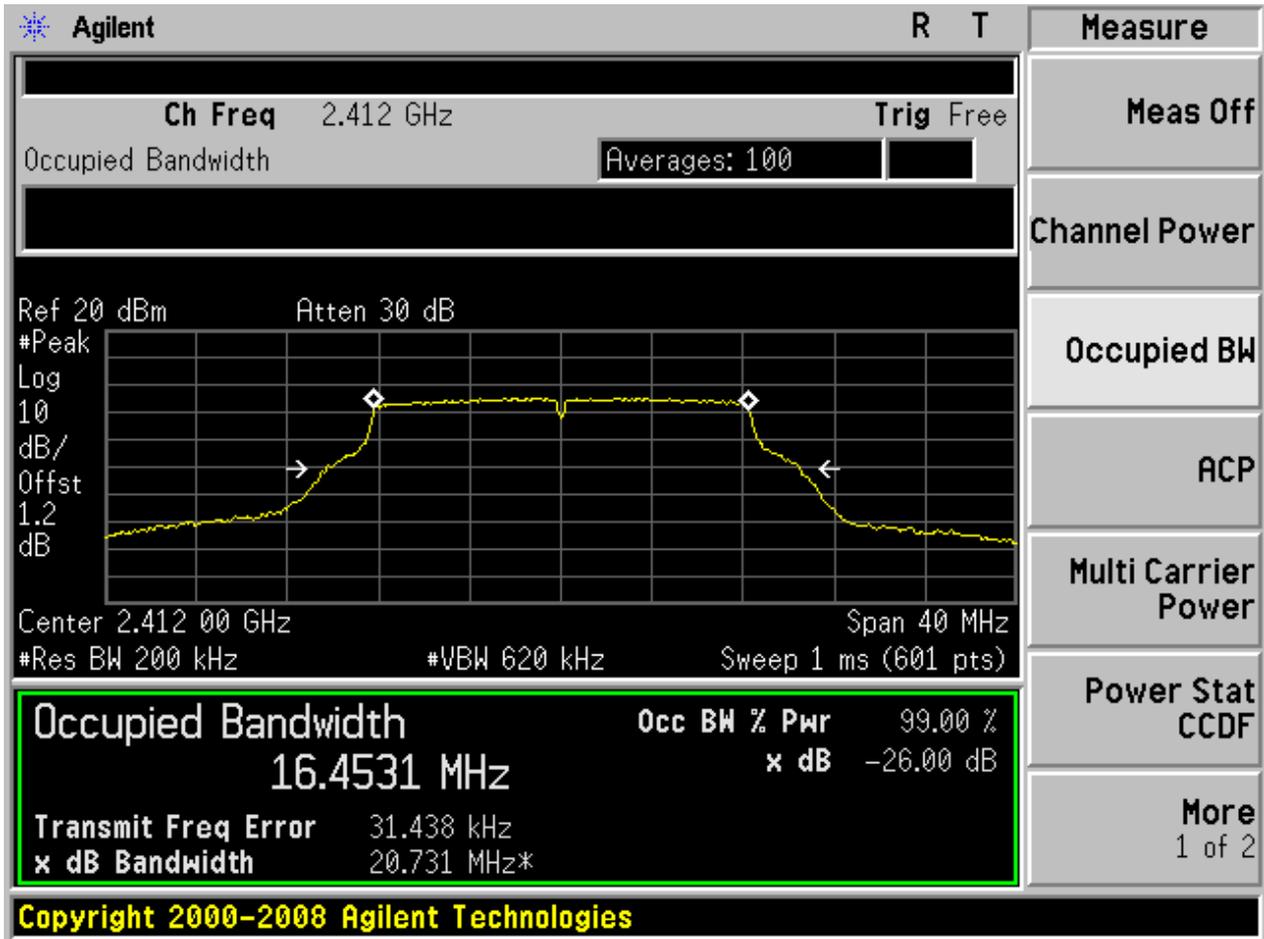


2.7 11G_L@Ant 1



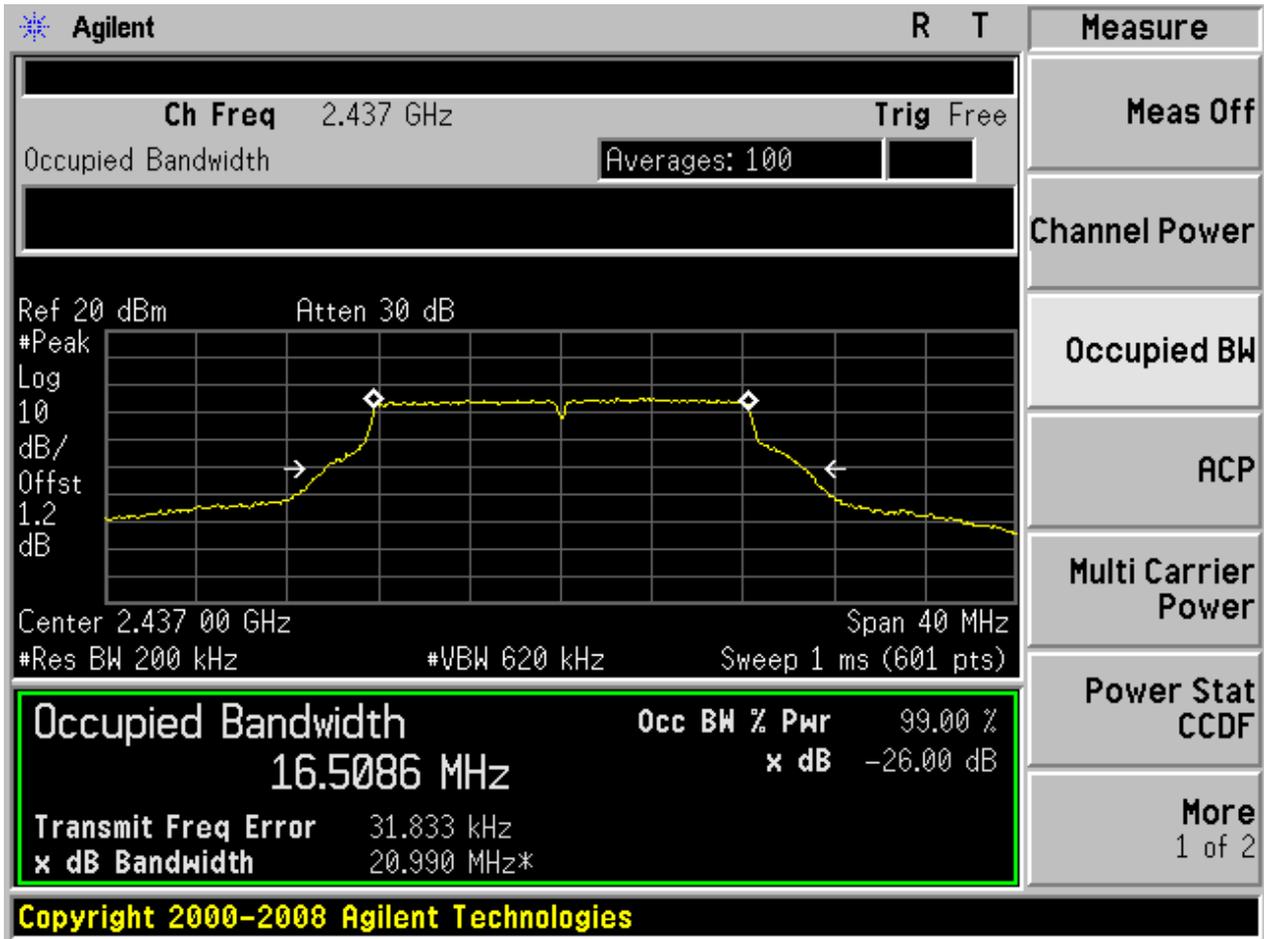


2.8 11G_L@Ant 2



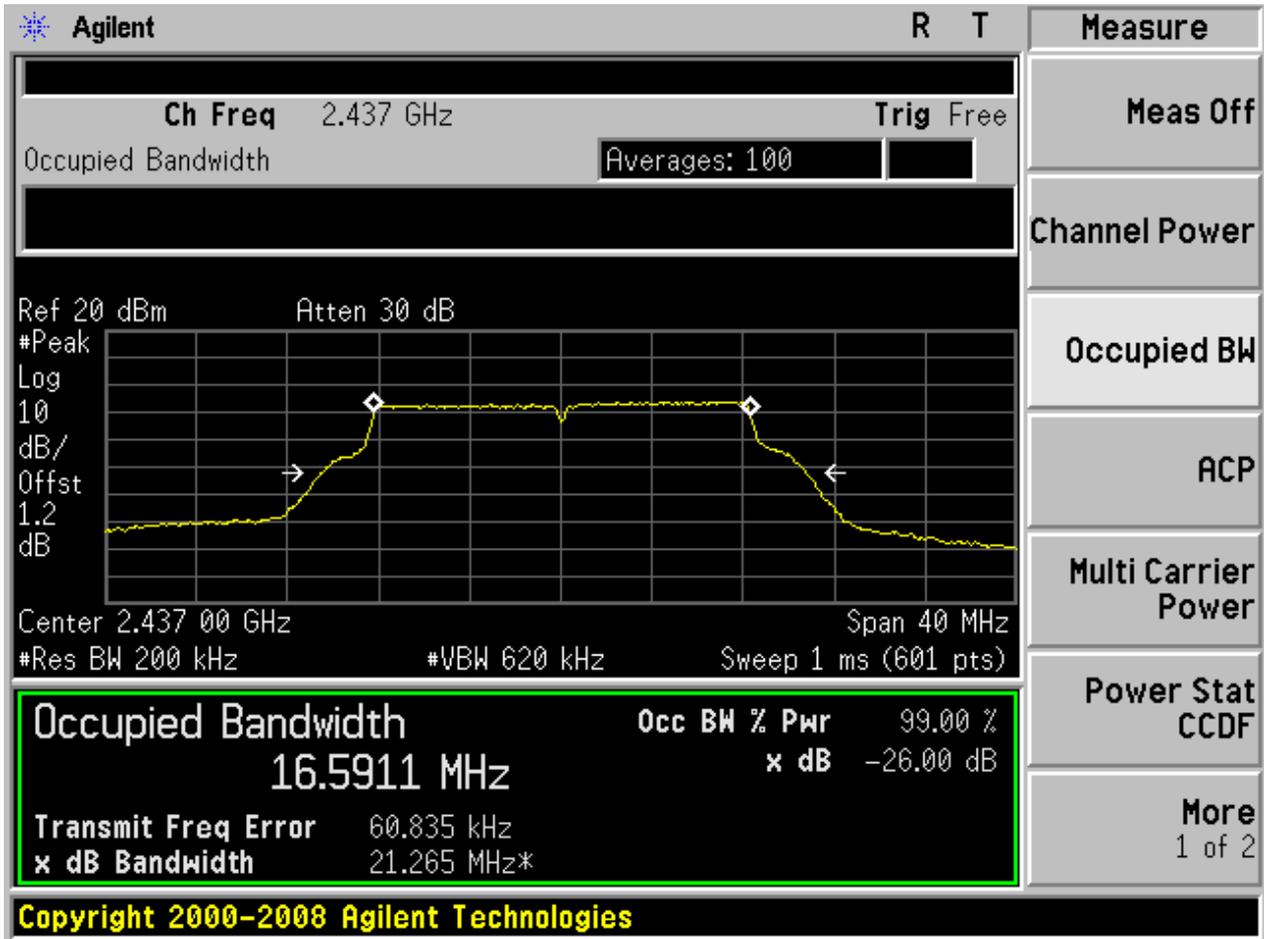


2.9 11G_M@Ant 1



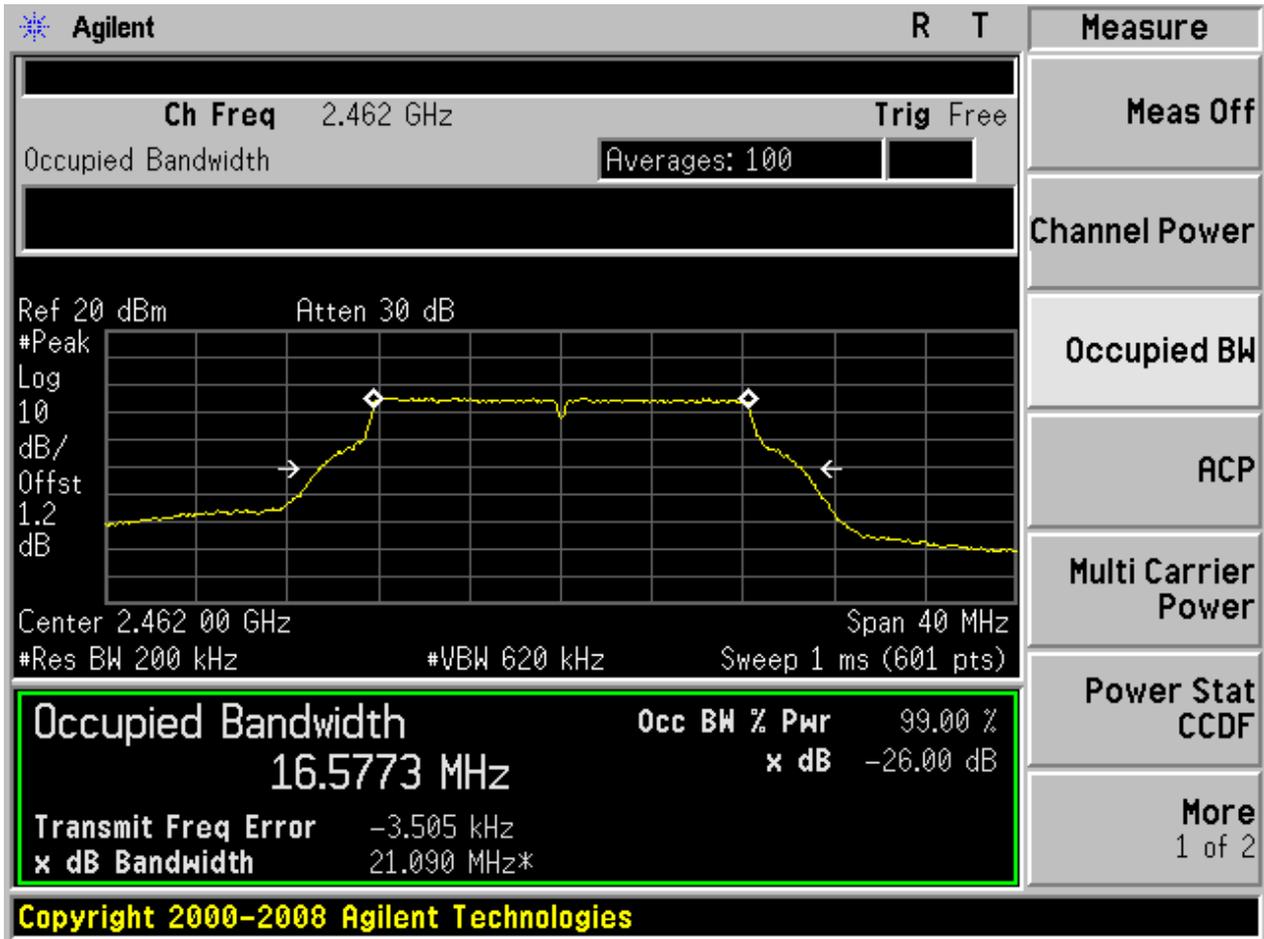


2.10 11G_M@Ant 2



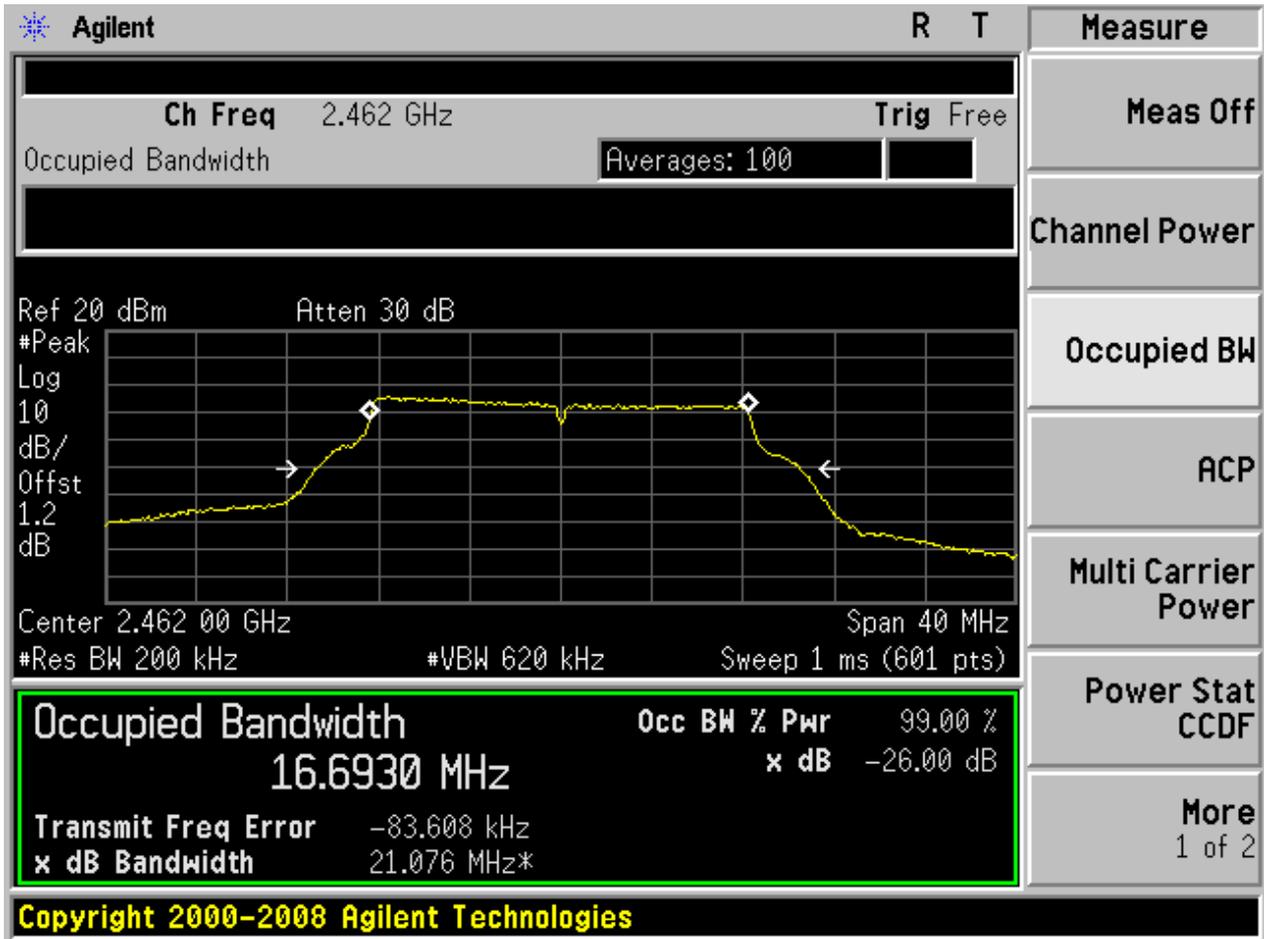


2.11 11G_H@Ant 1



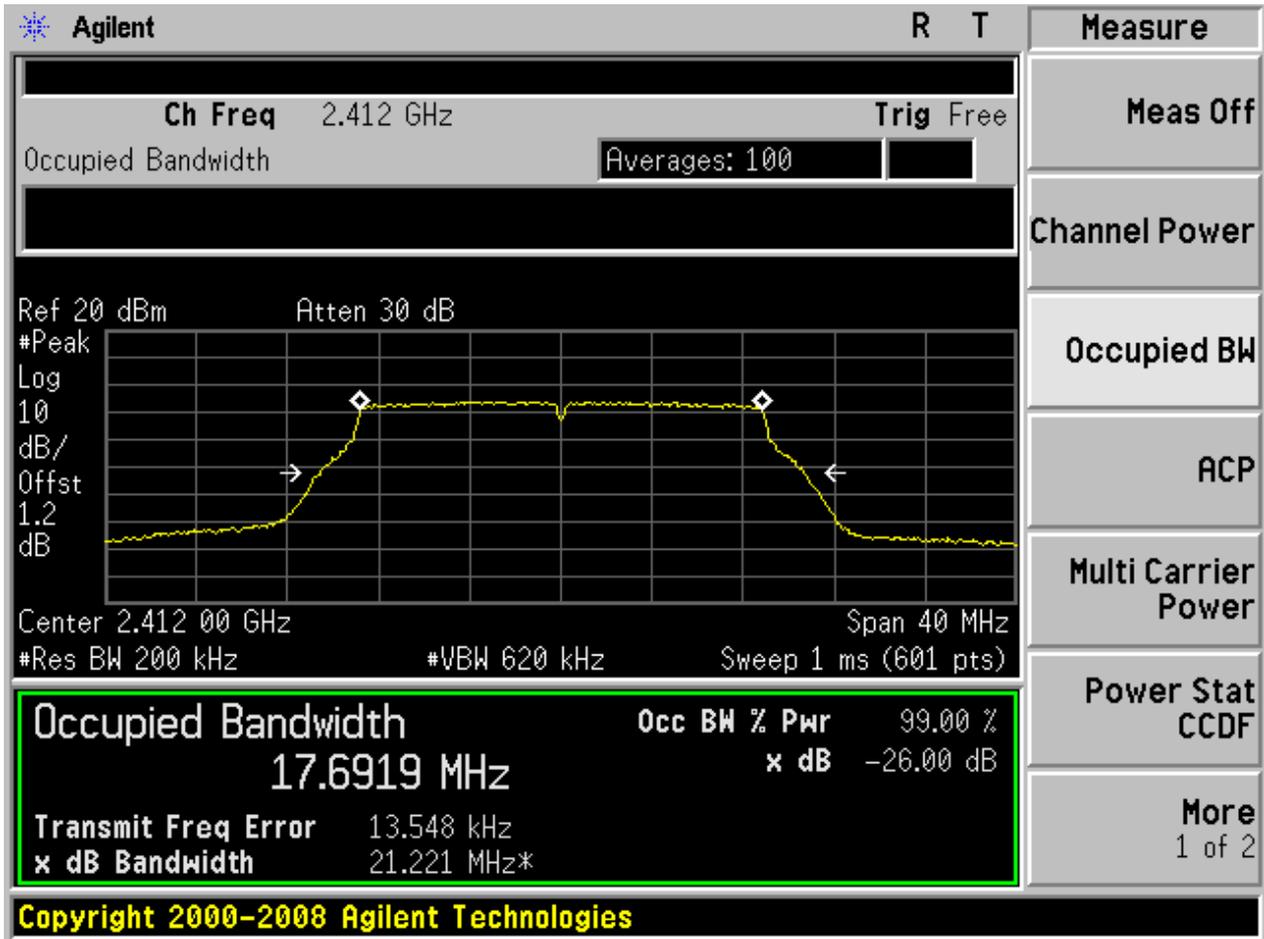


2.12 11G_H@Ant 2

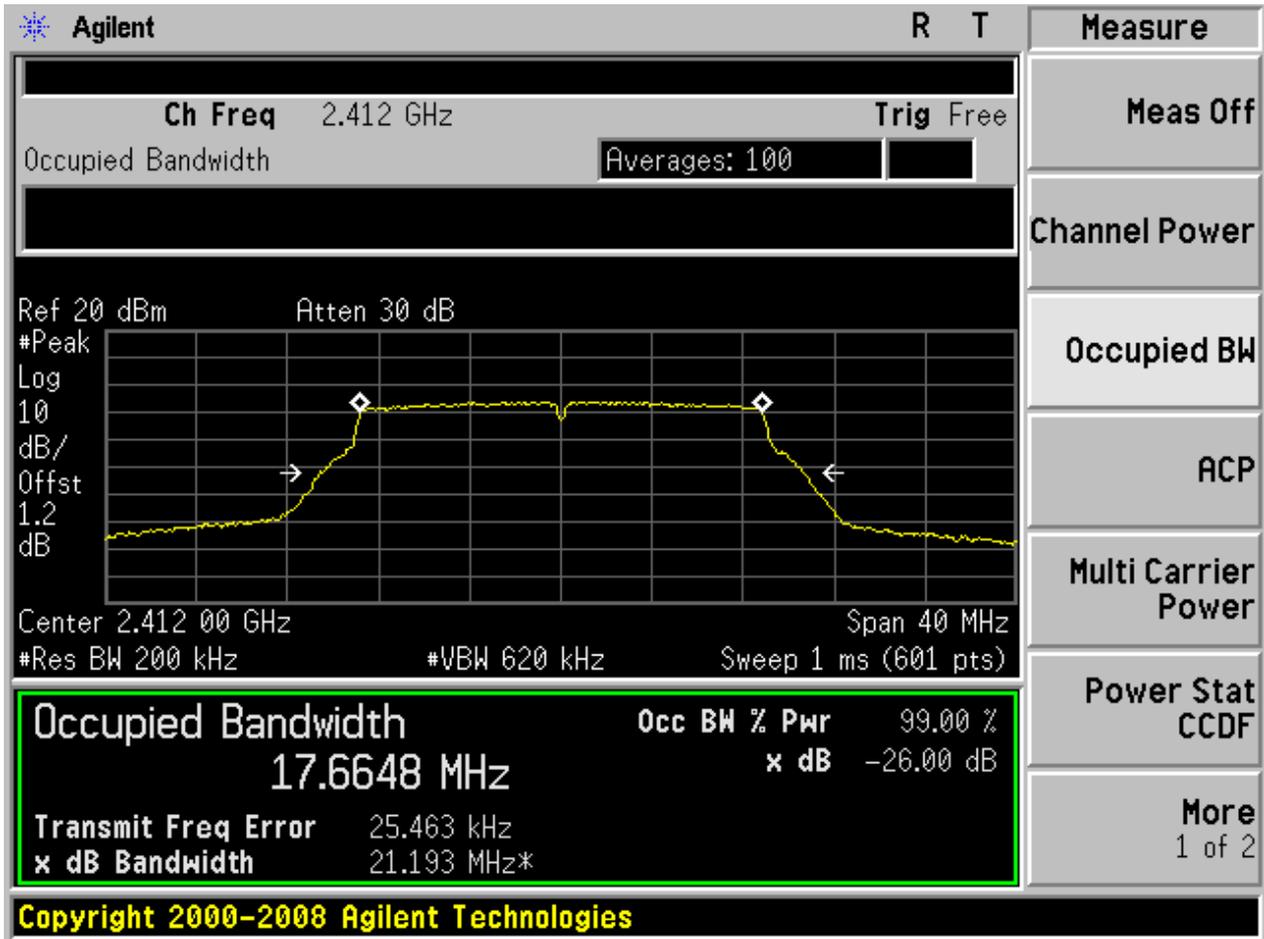




2.13 11N20_L@Ant 1

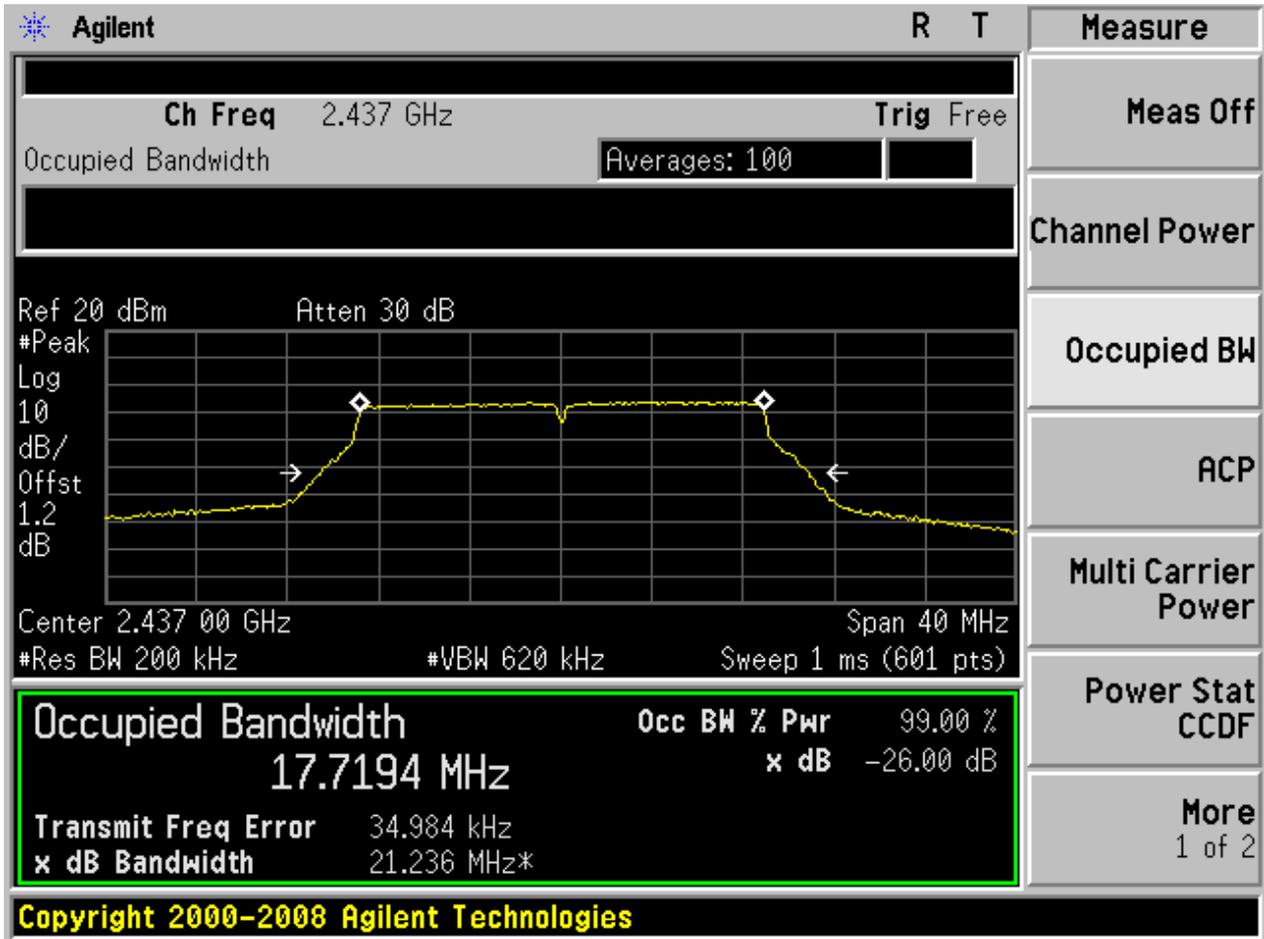


2.14 11N20_L@Ant 2



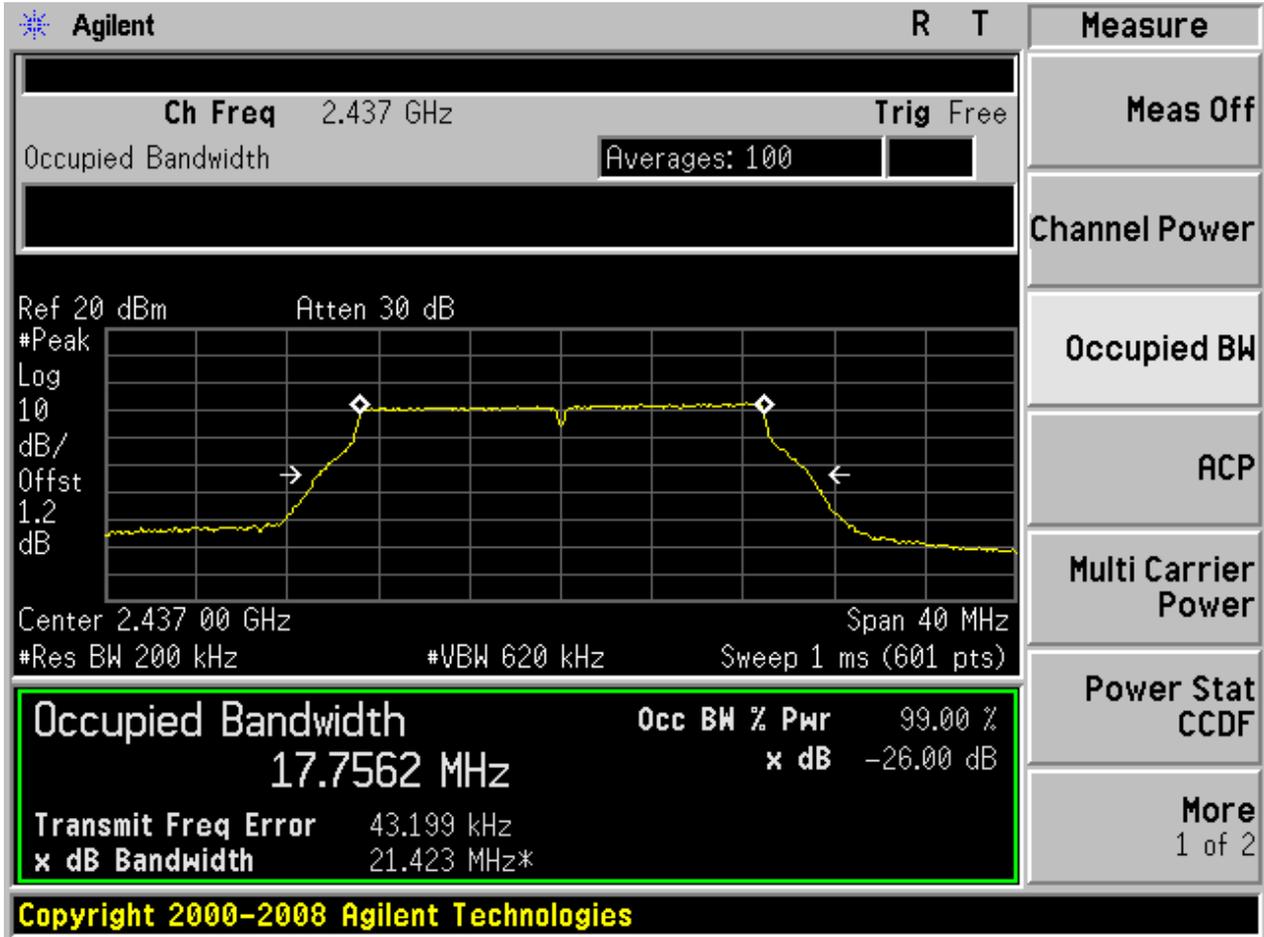


2.15 11N20_M@Ant 1

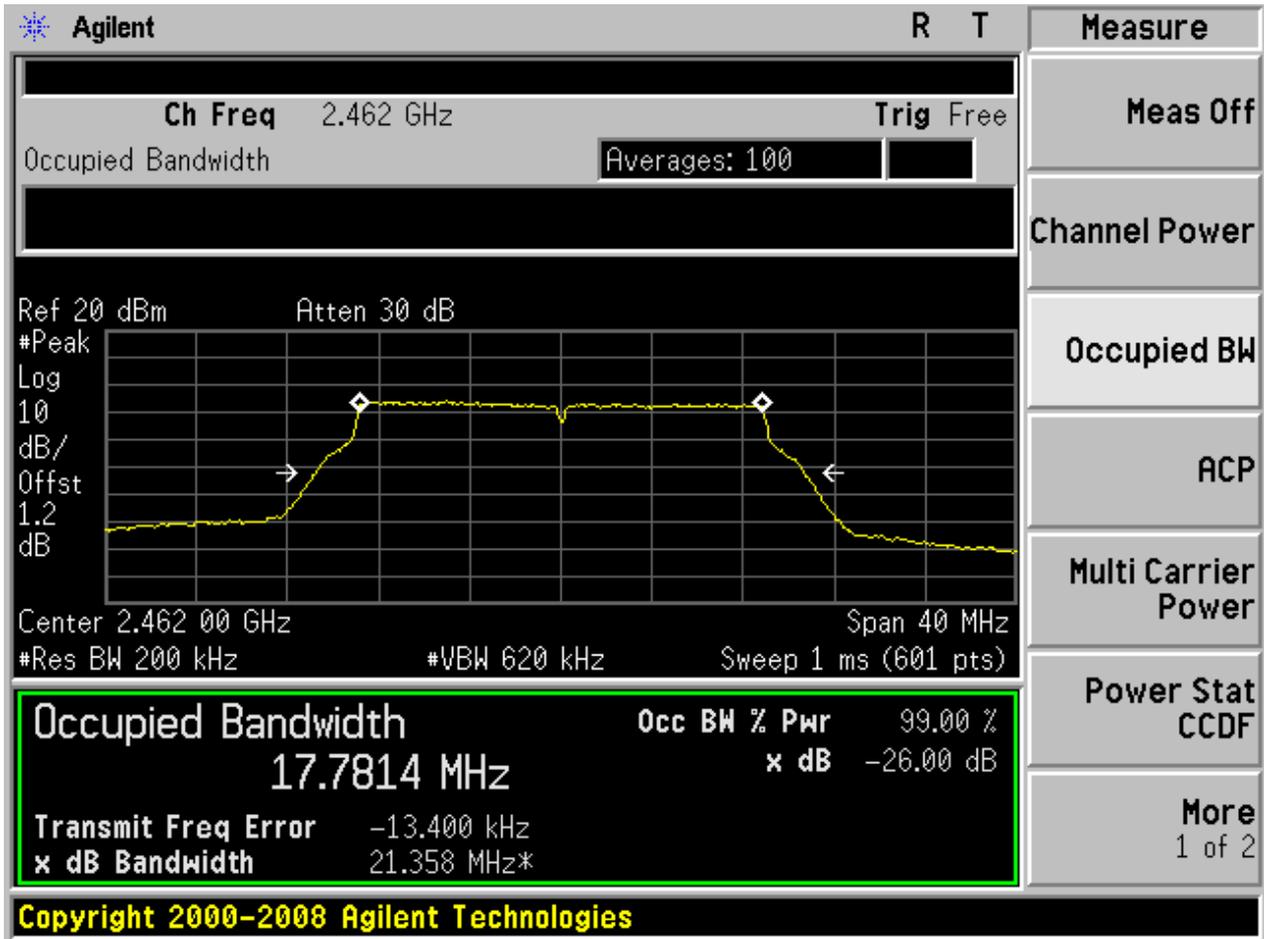




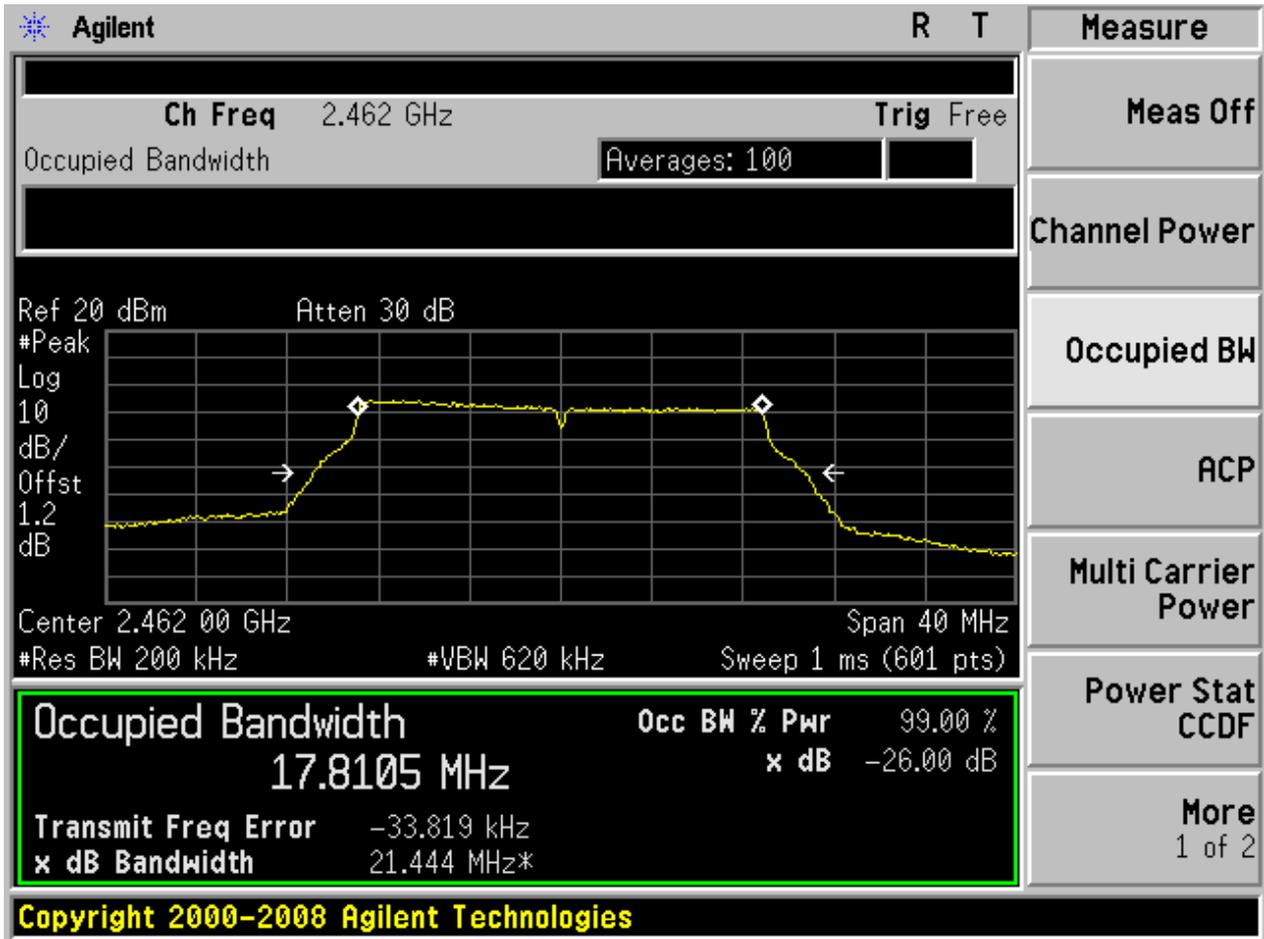
2.16 11N20_M@Ant 2



2.17 11N20_H@Ant 1

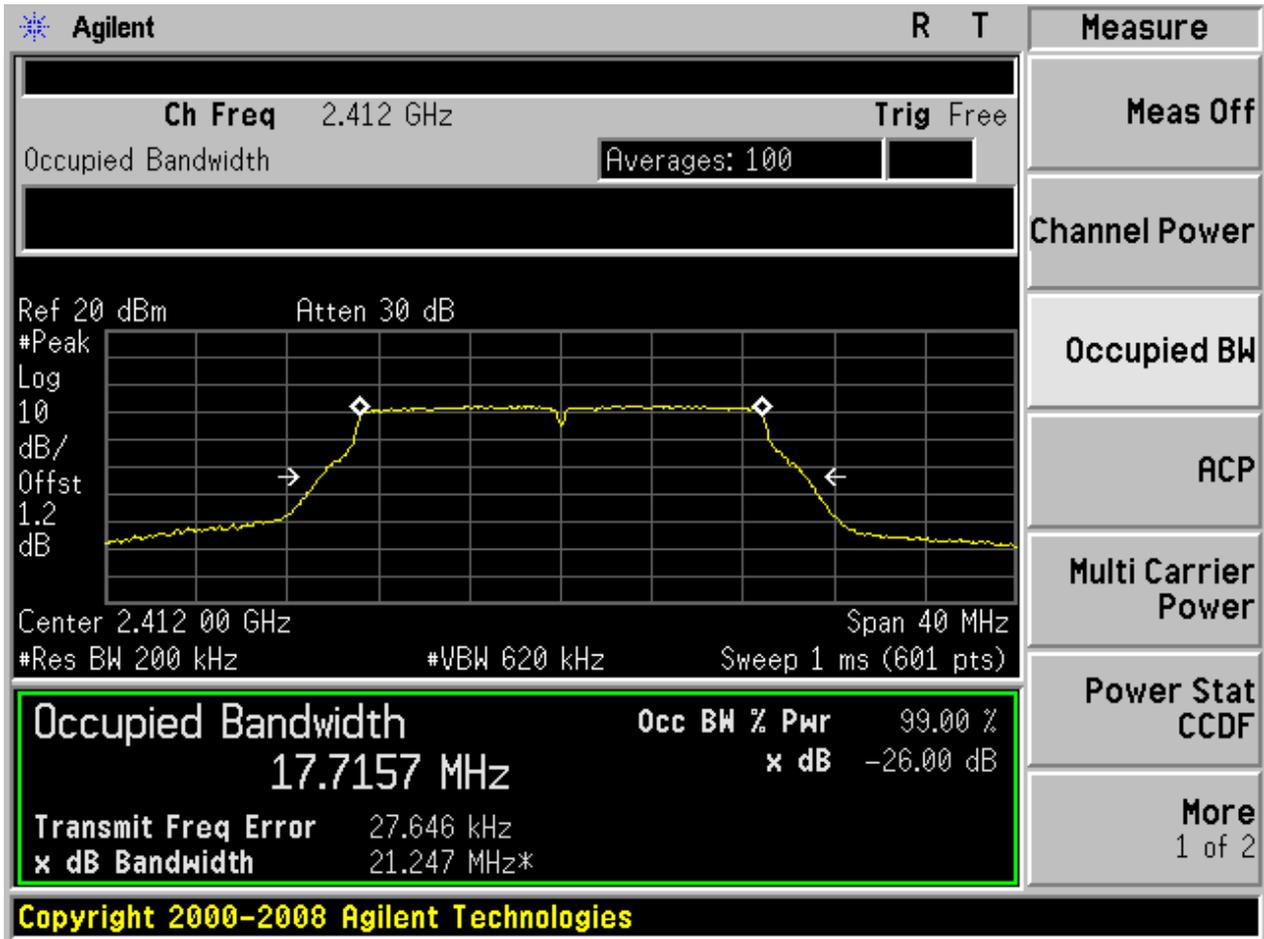


2.18 11N20_H@Ant 2



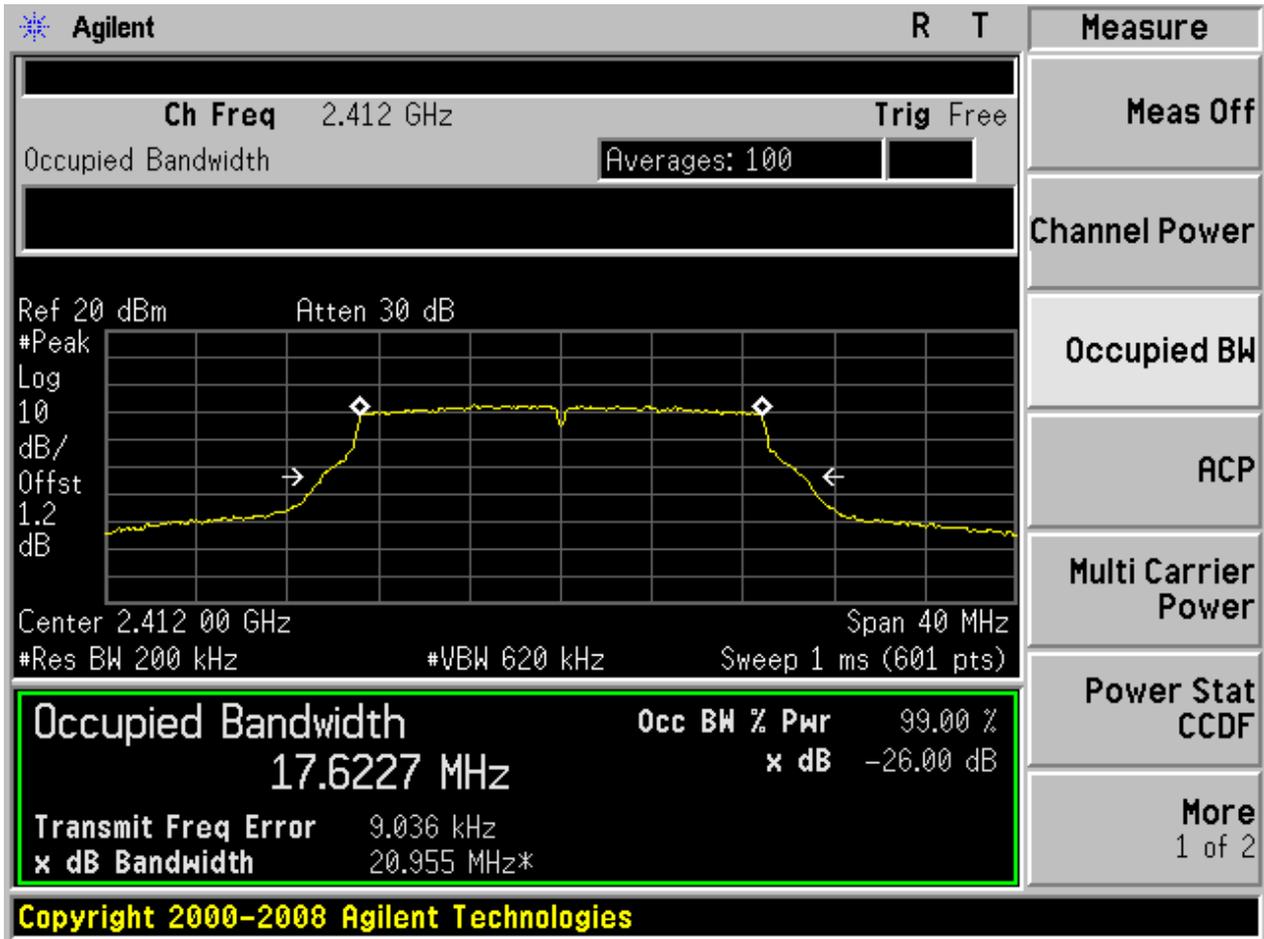


2.19 11N20m_L@Ant 1



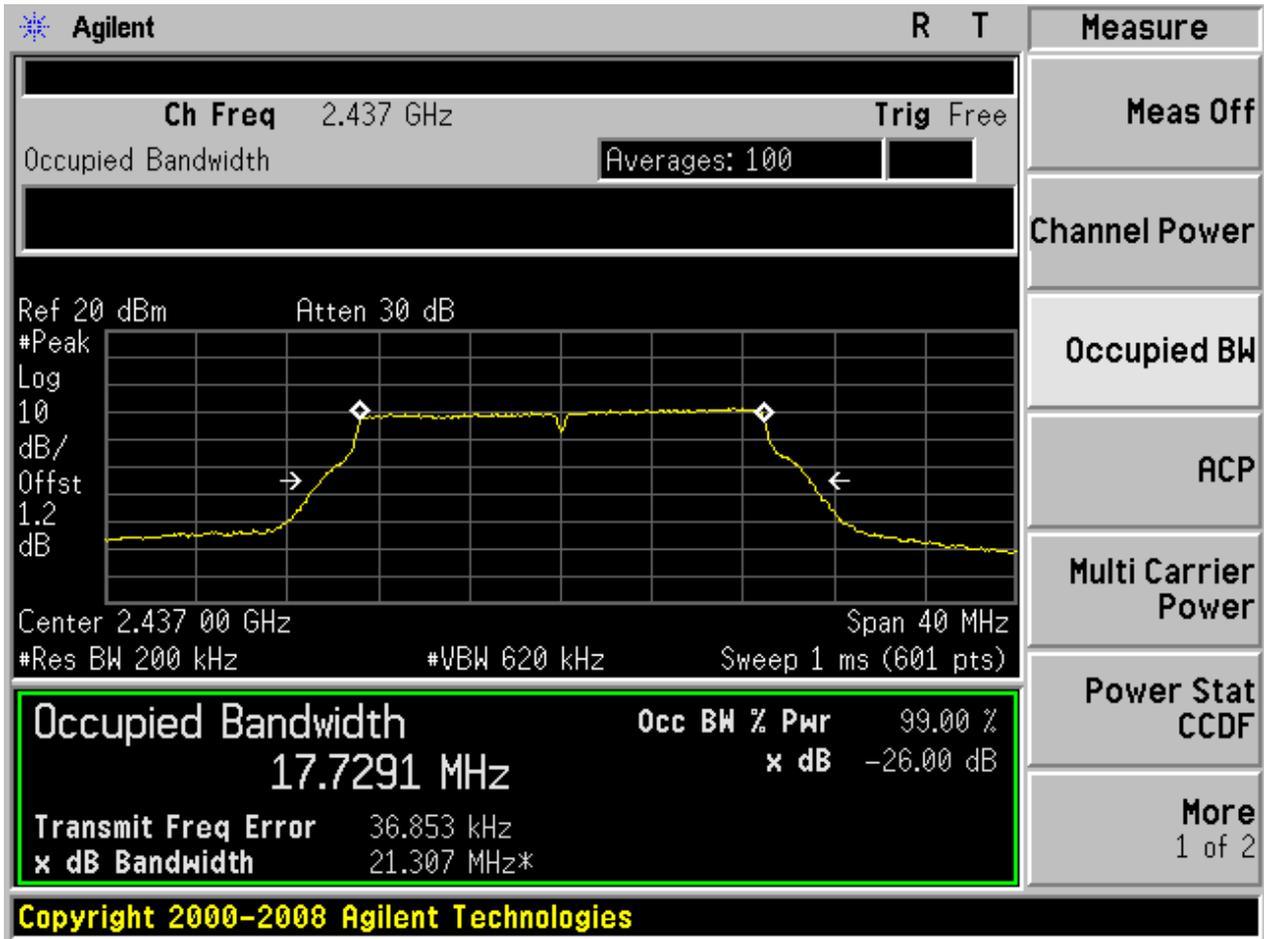


2.20 11N20m_L@Ant 2



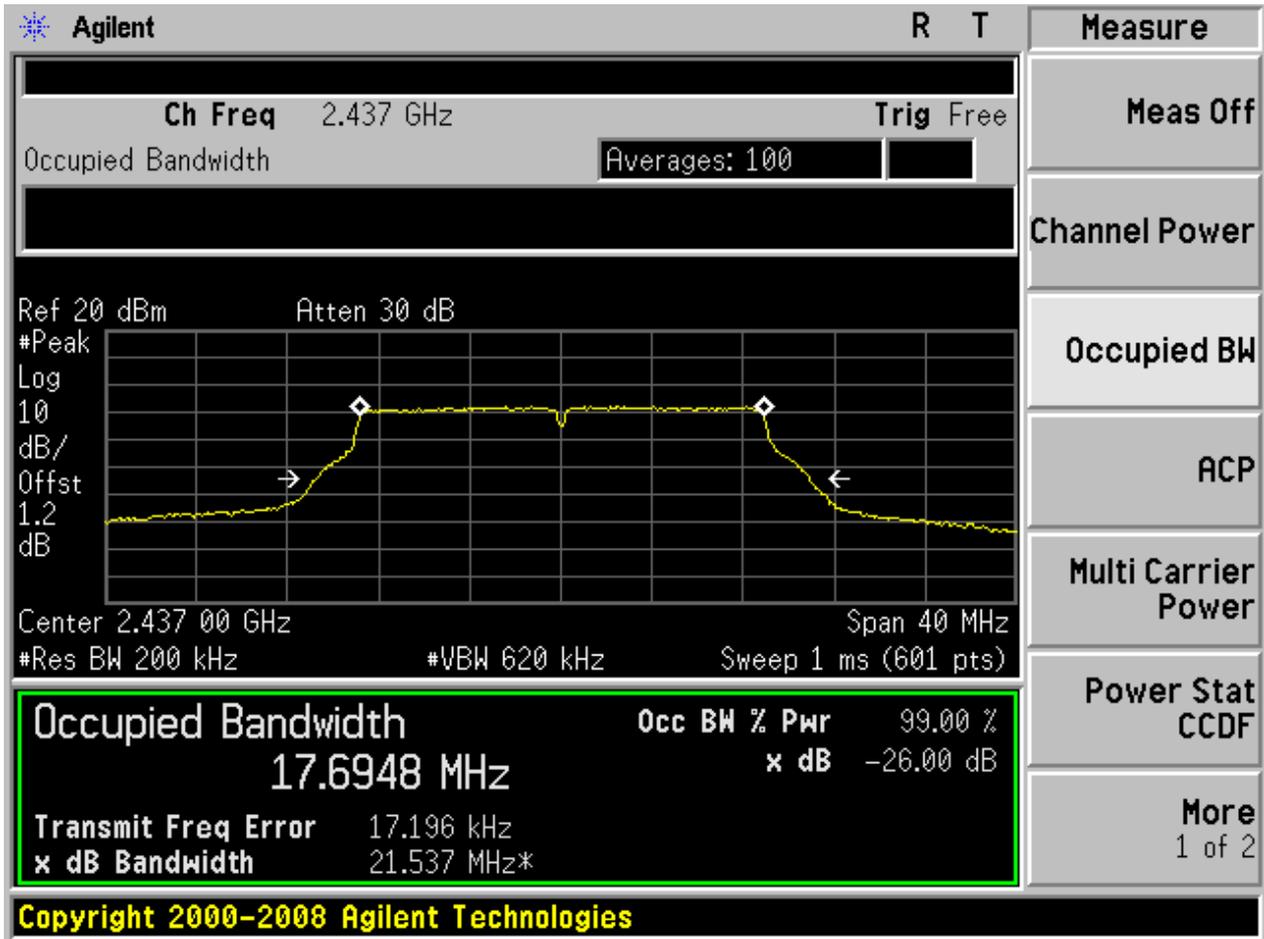


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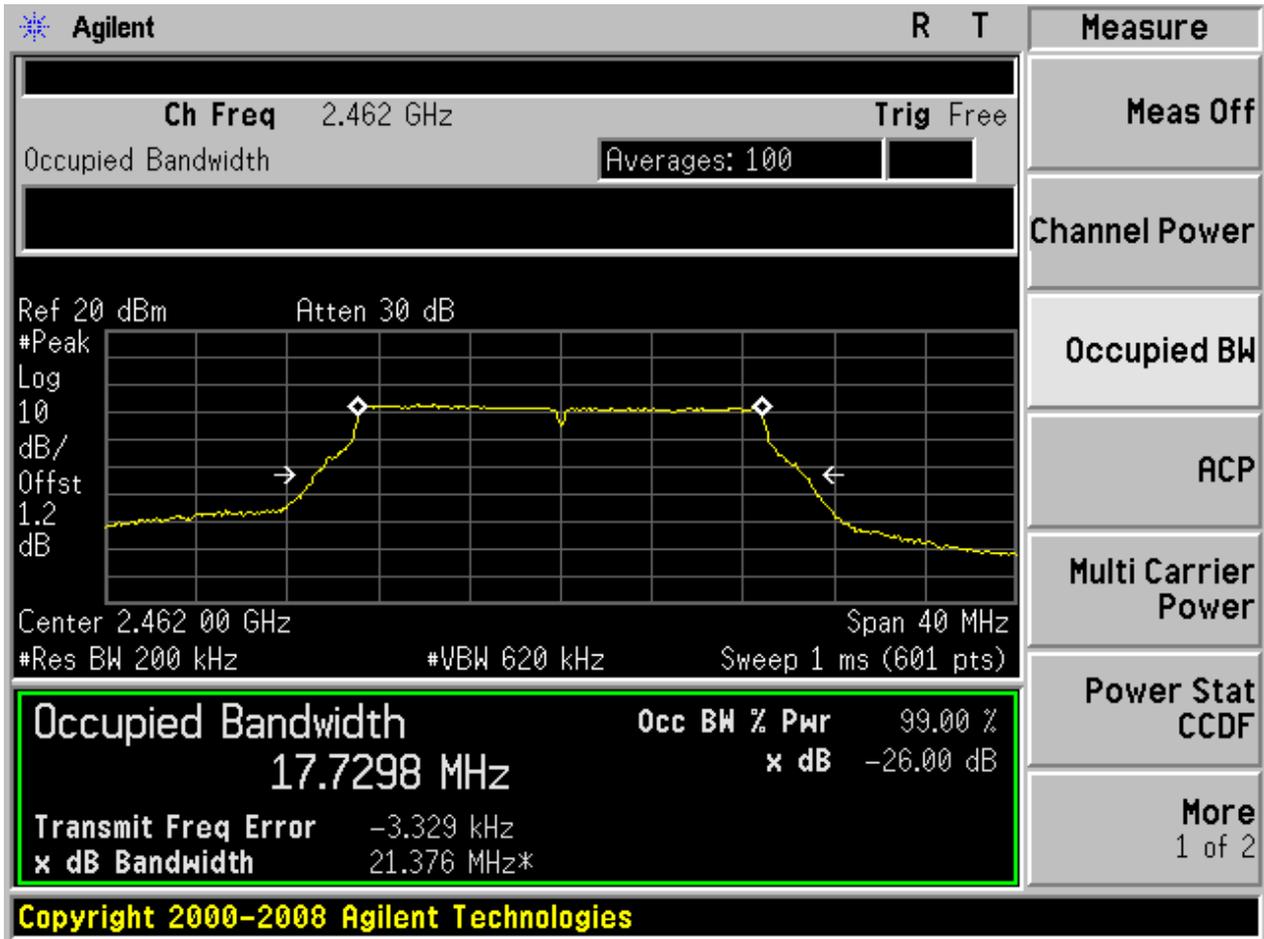


2.21 11N20m_M@Ant 2



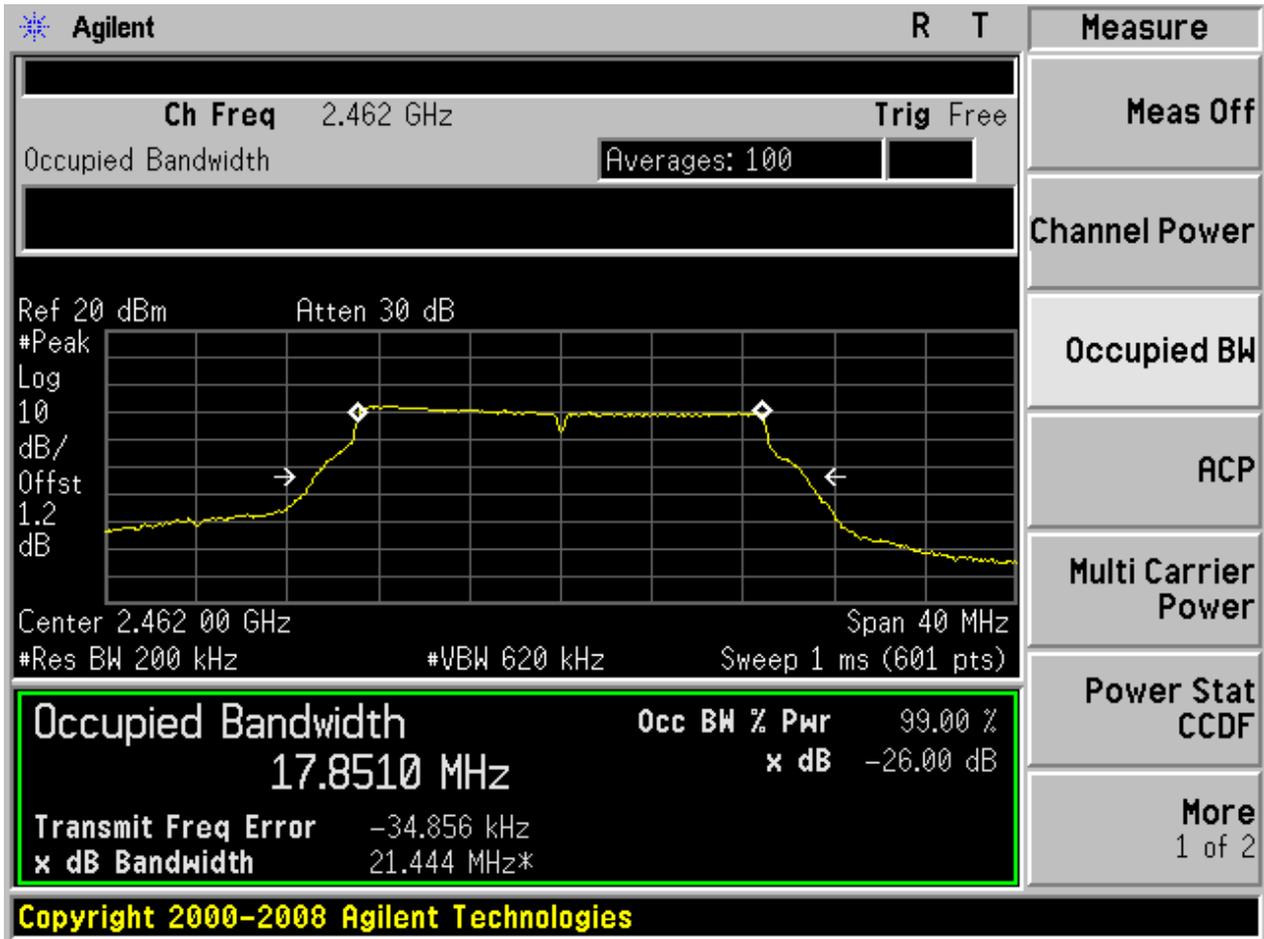


2.23 11N20m_H@Ant 1

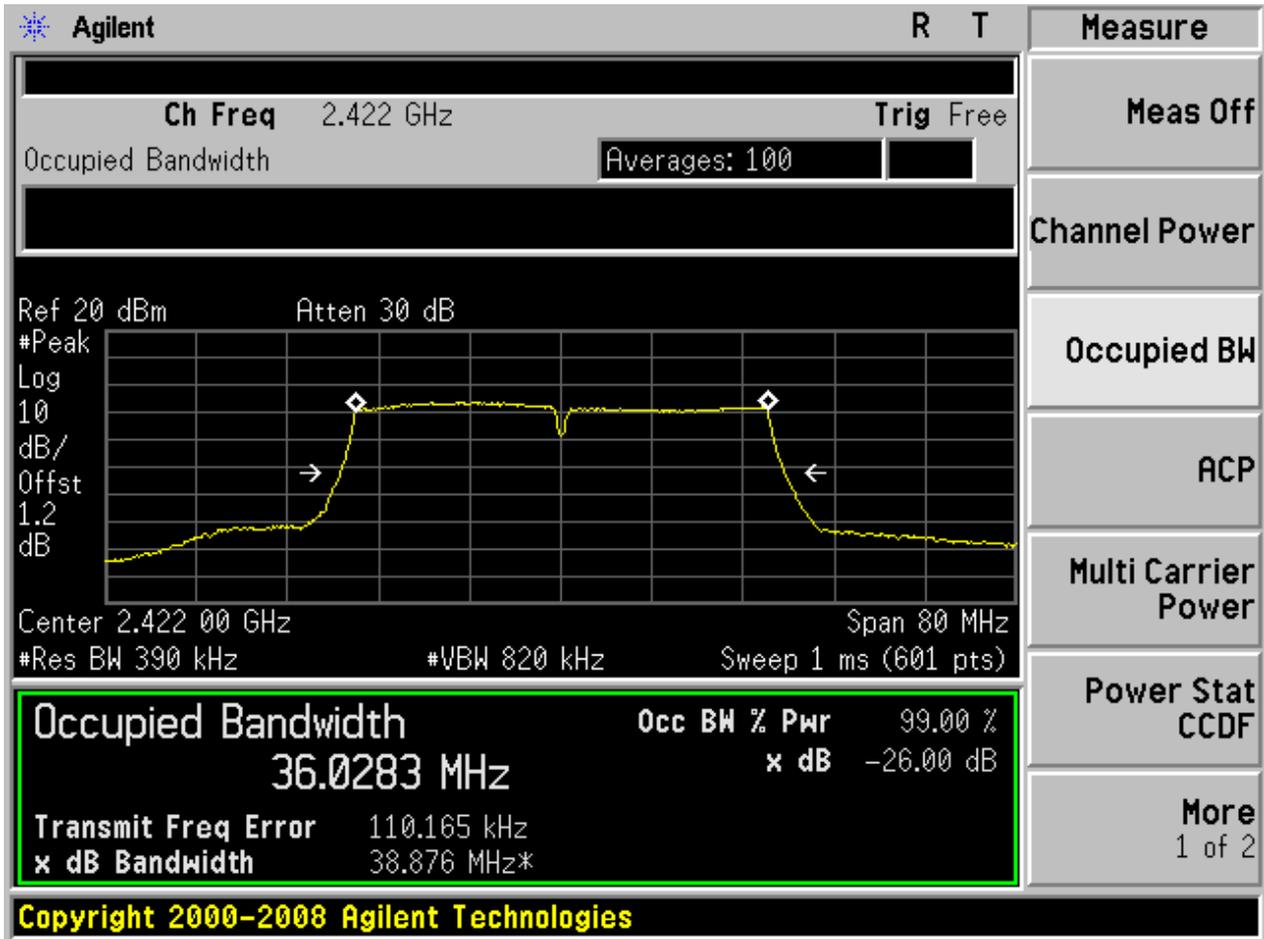




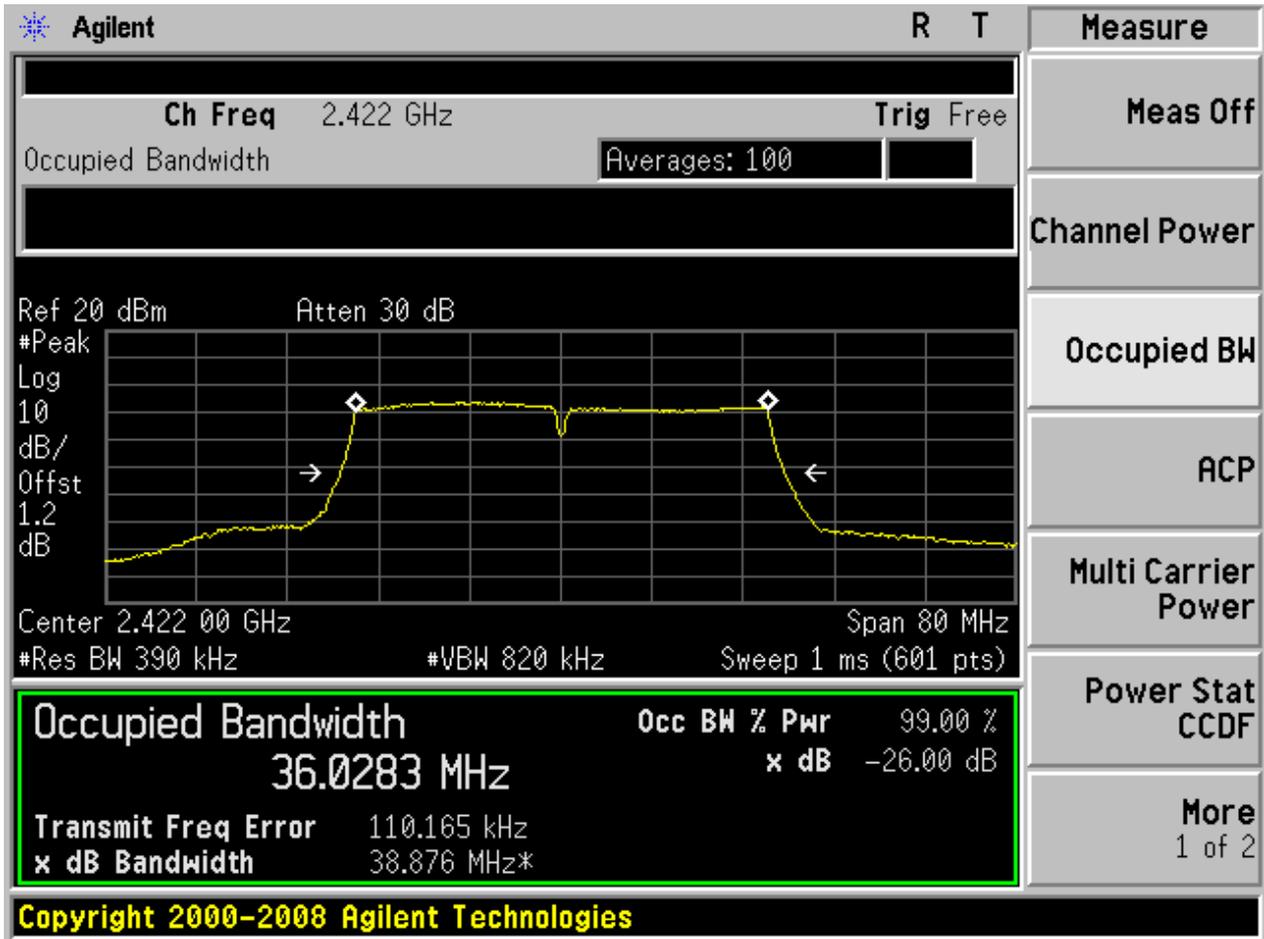
2.24 11N20m_H@Ant 2



2.25 11N40_L@Ant 1

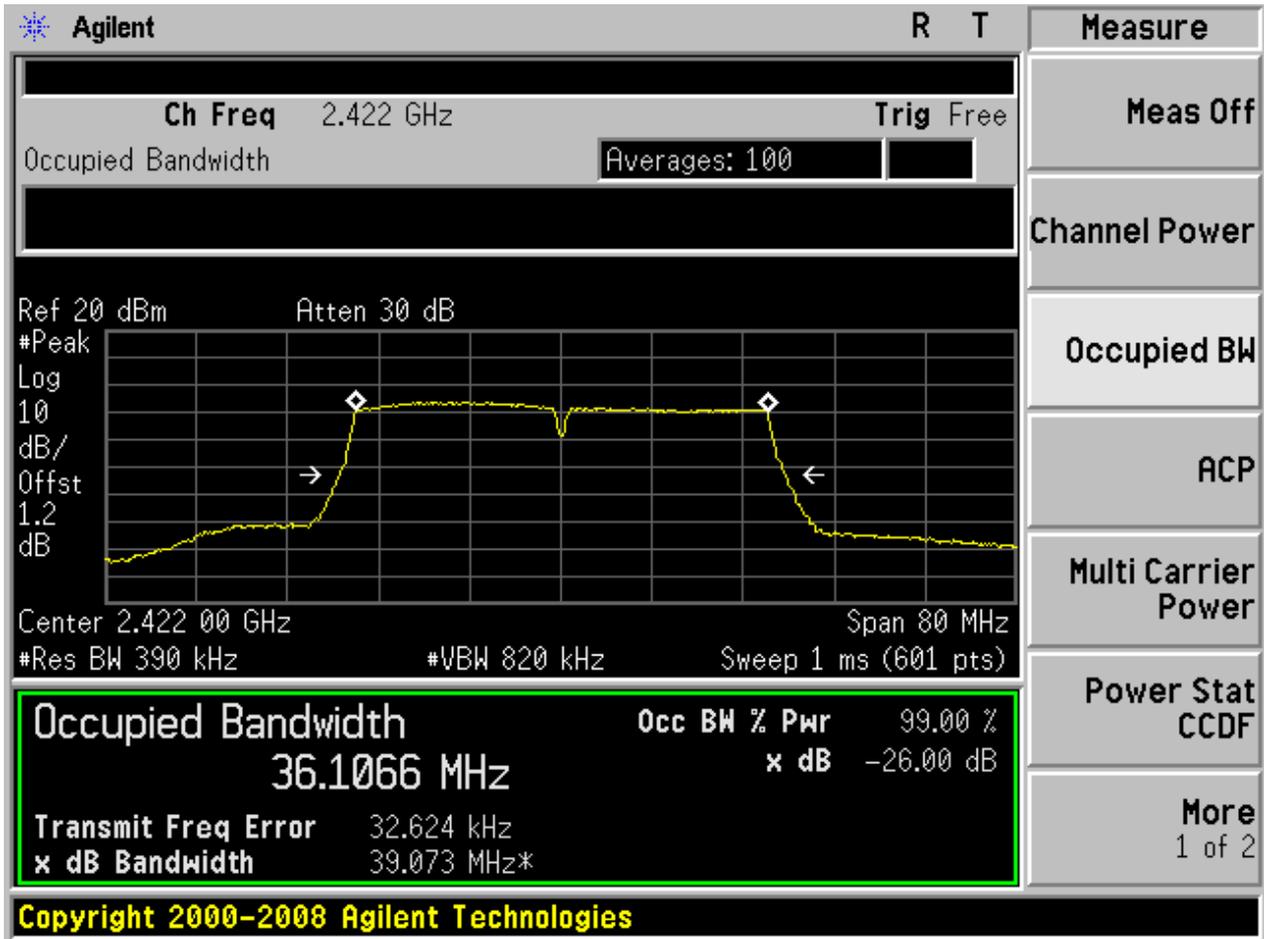


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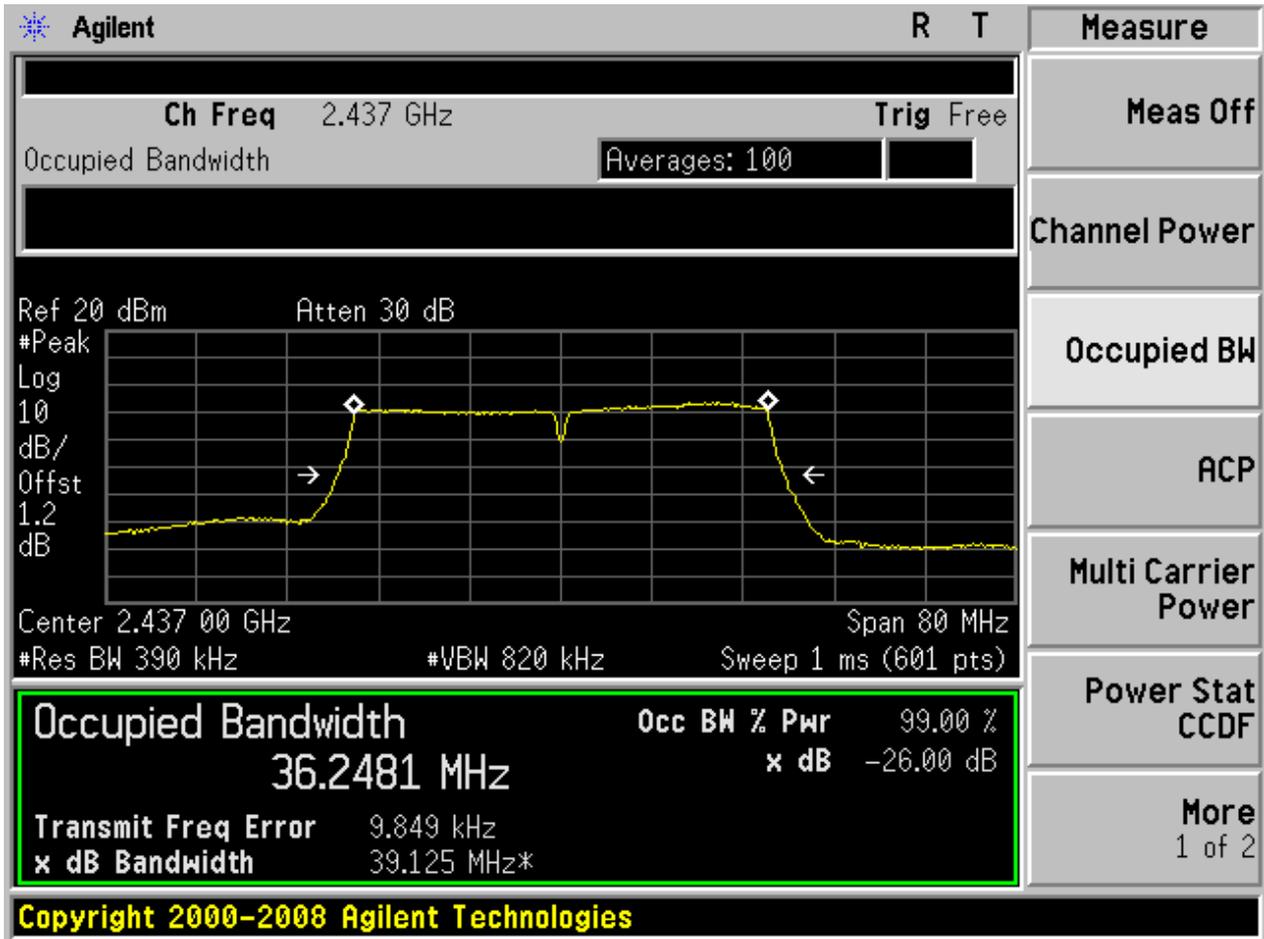


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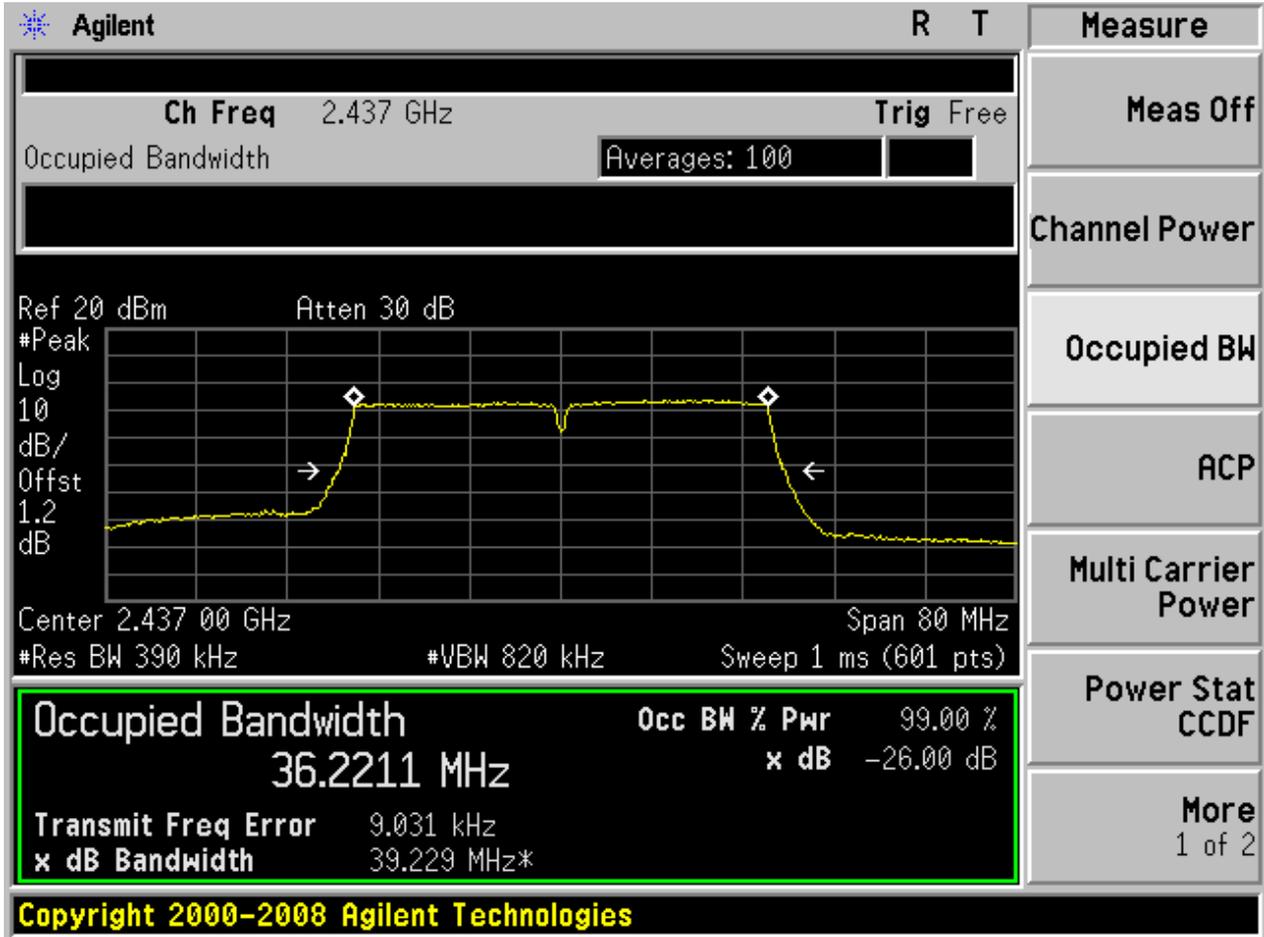




2.28 11N40_M@Ant 1

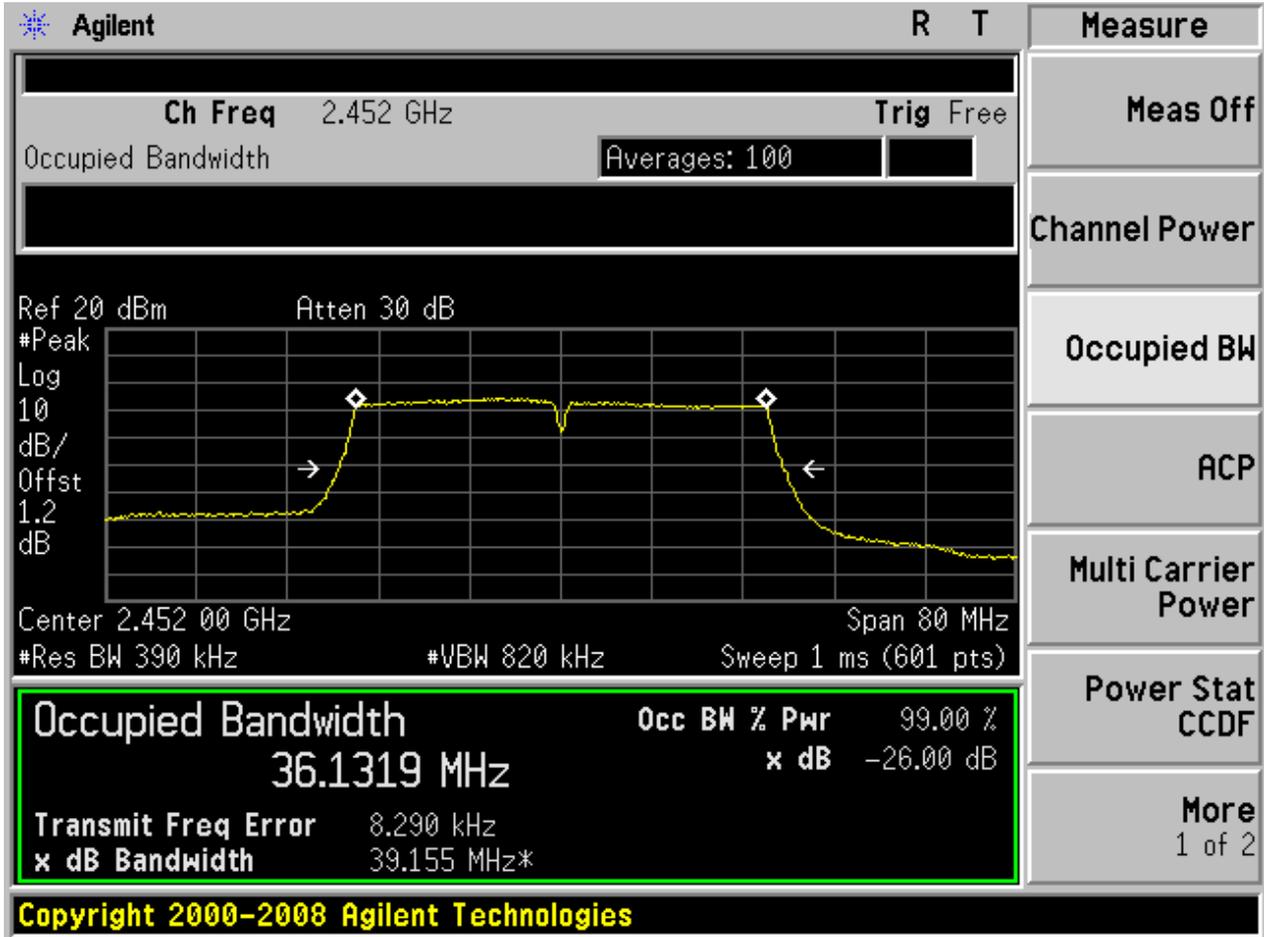


2.27 11N40_M@Ant 2

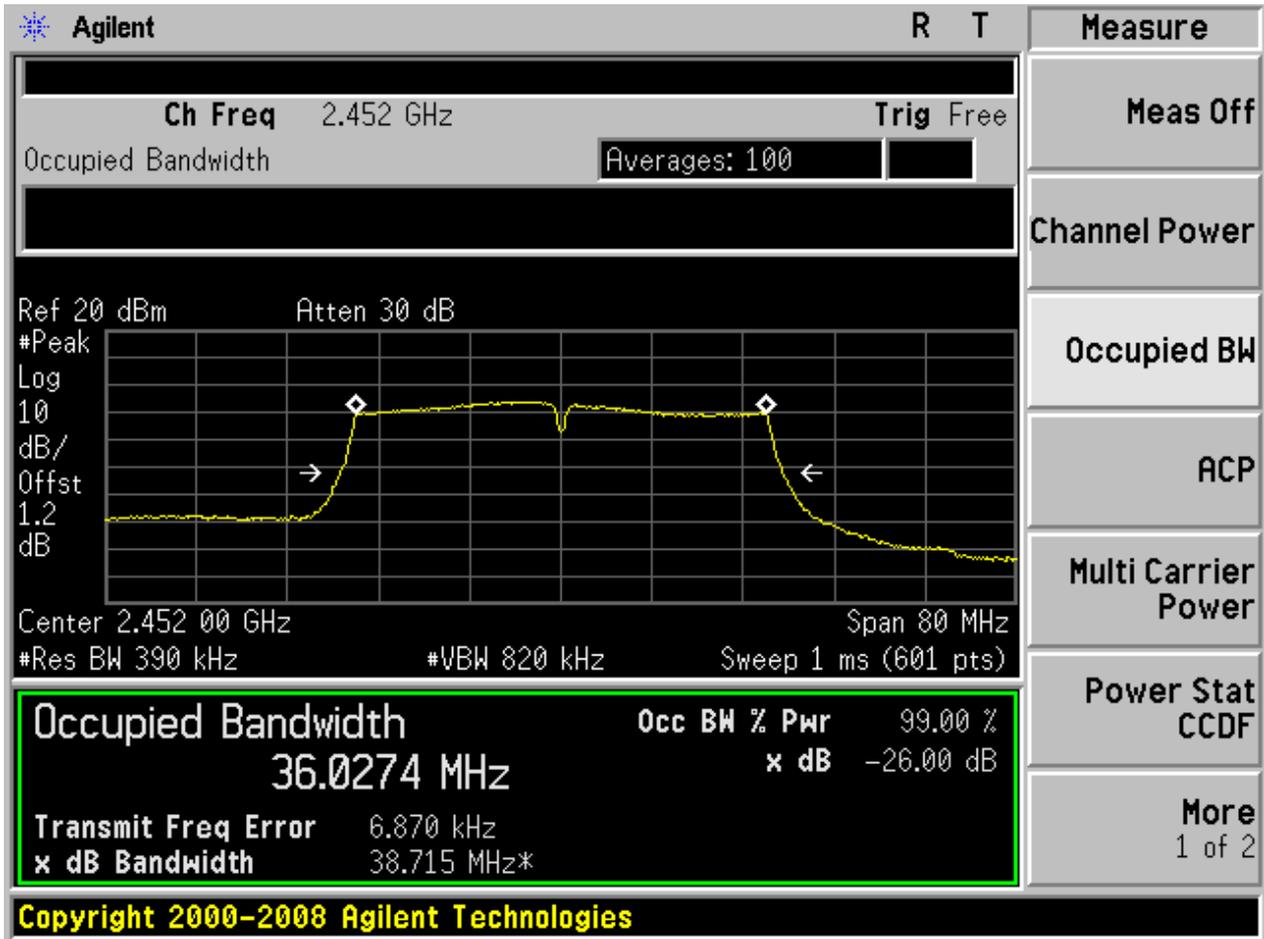




2.29 11N40_H@Ant 1

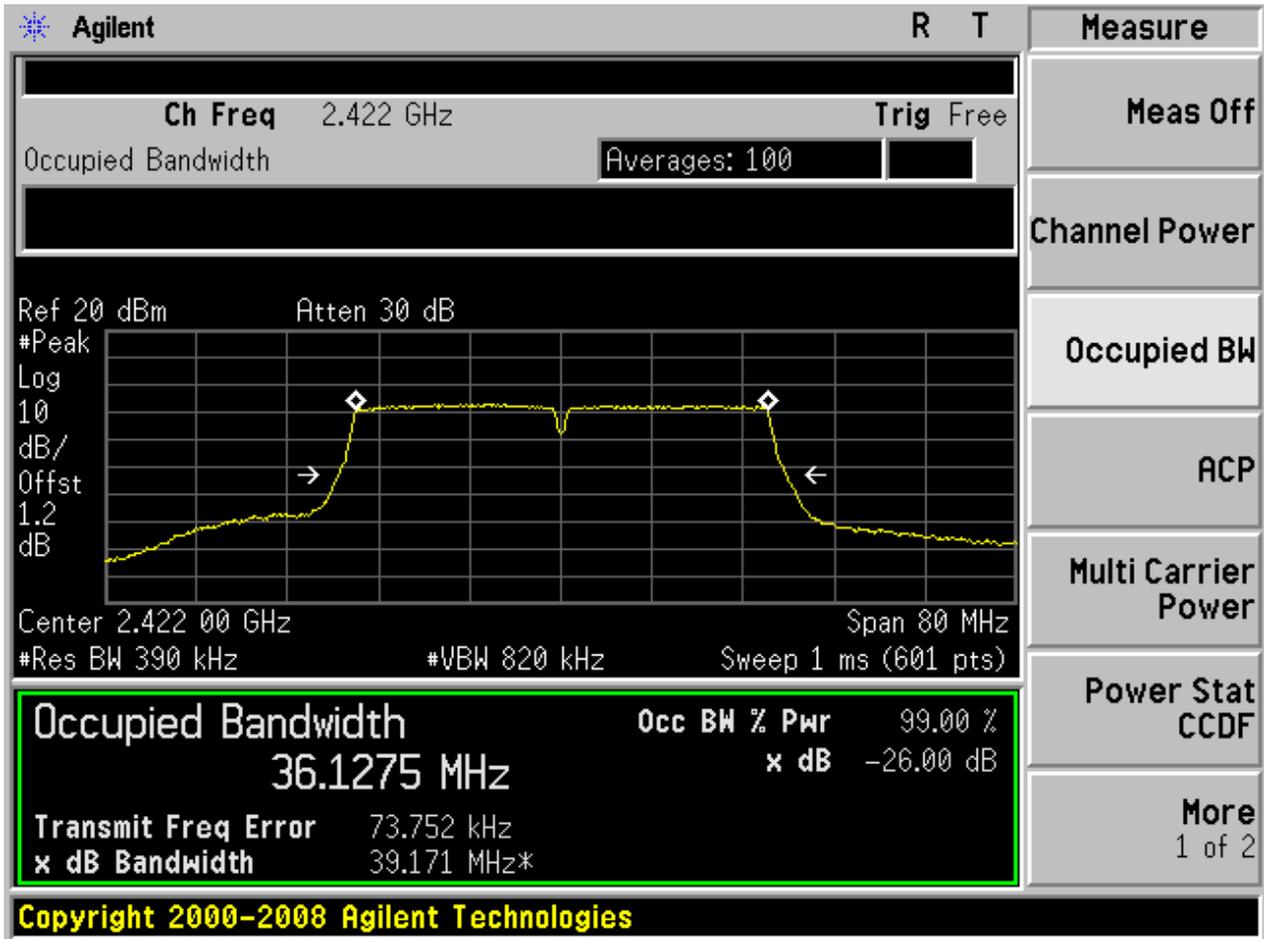


2.30 11N40_H@Ant 2

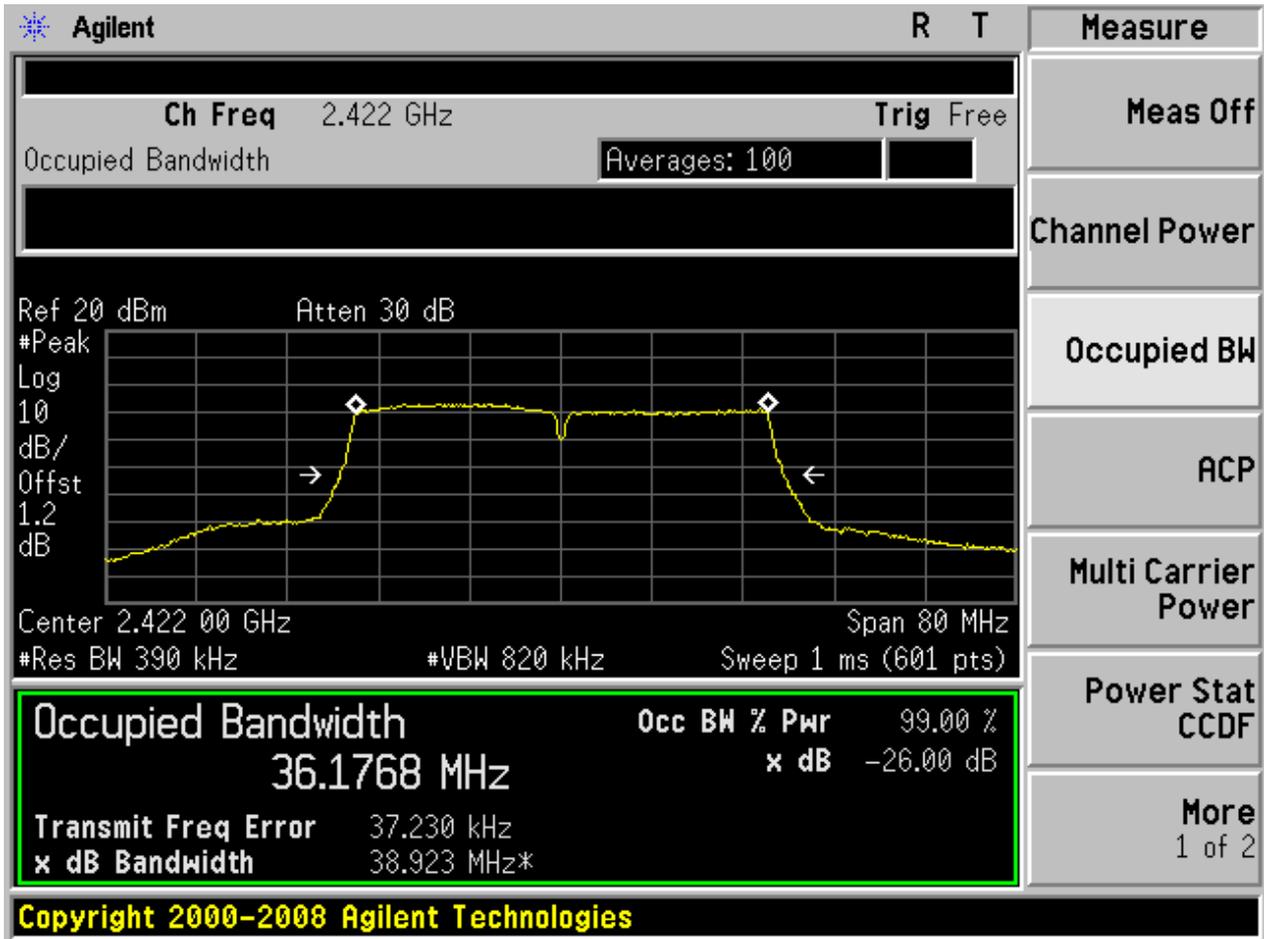




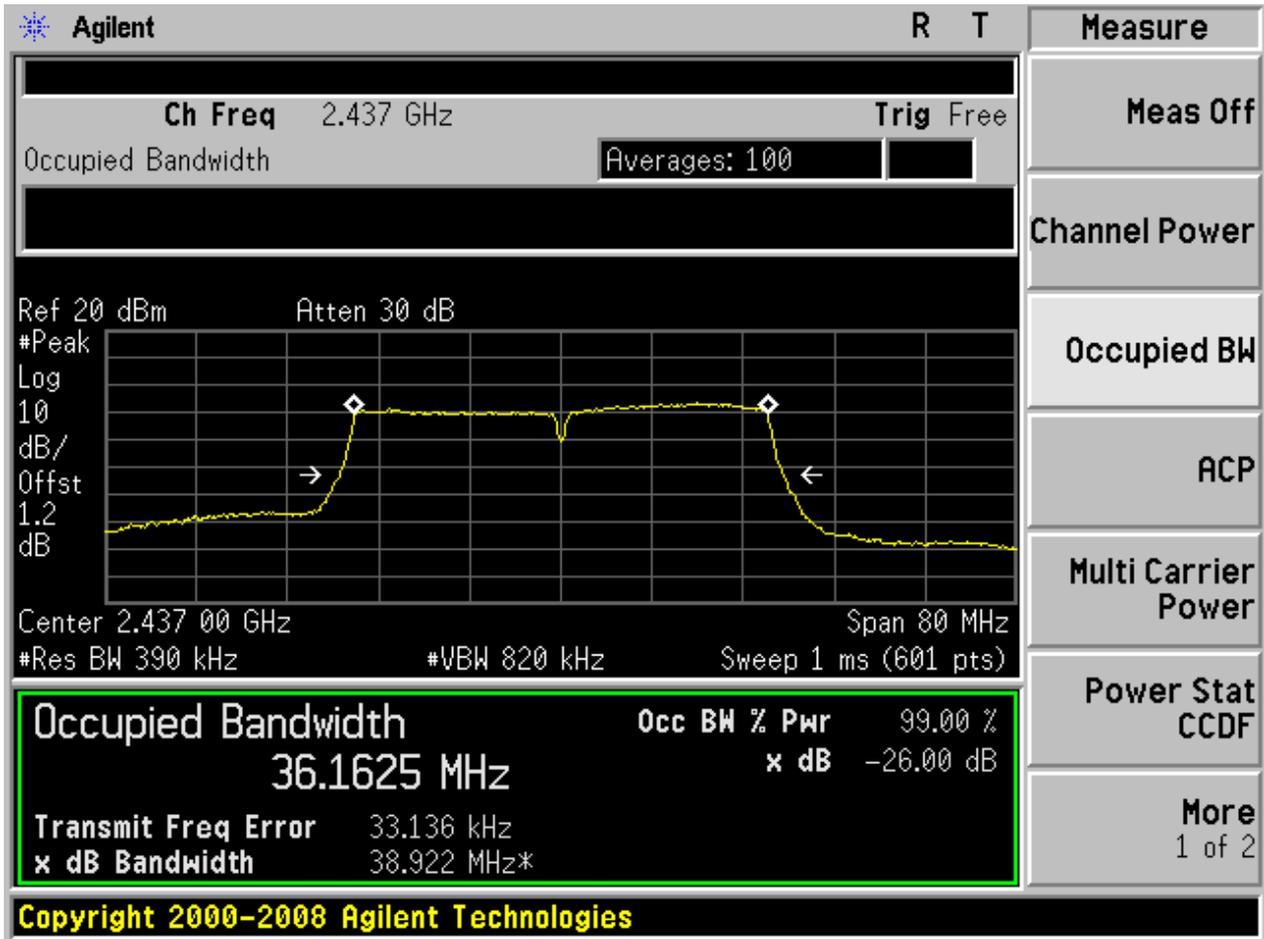
2.31 11N40m_L@Ant 1



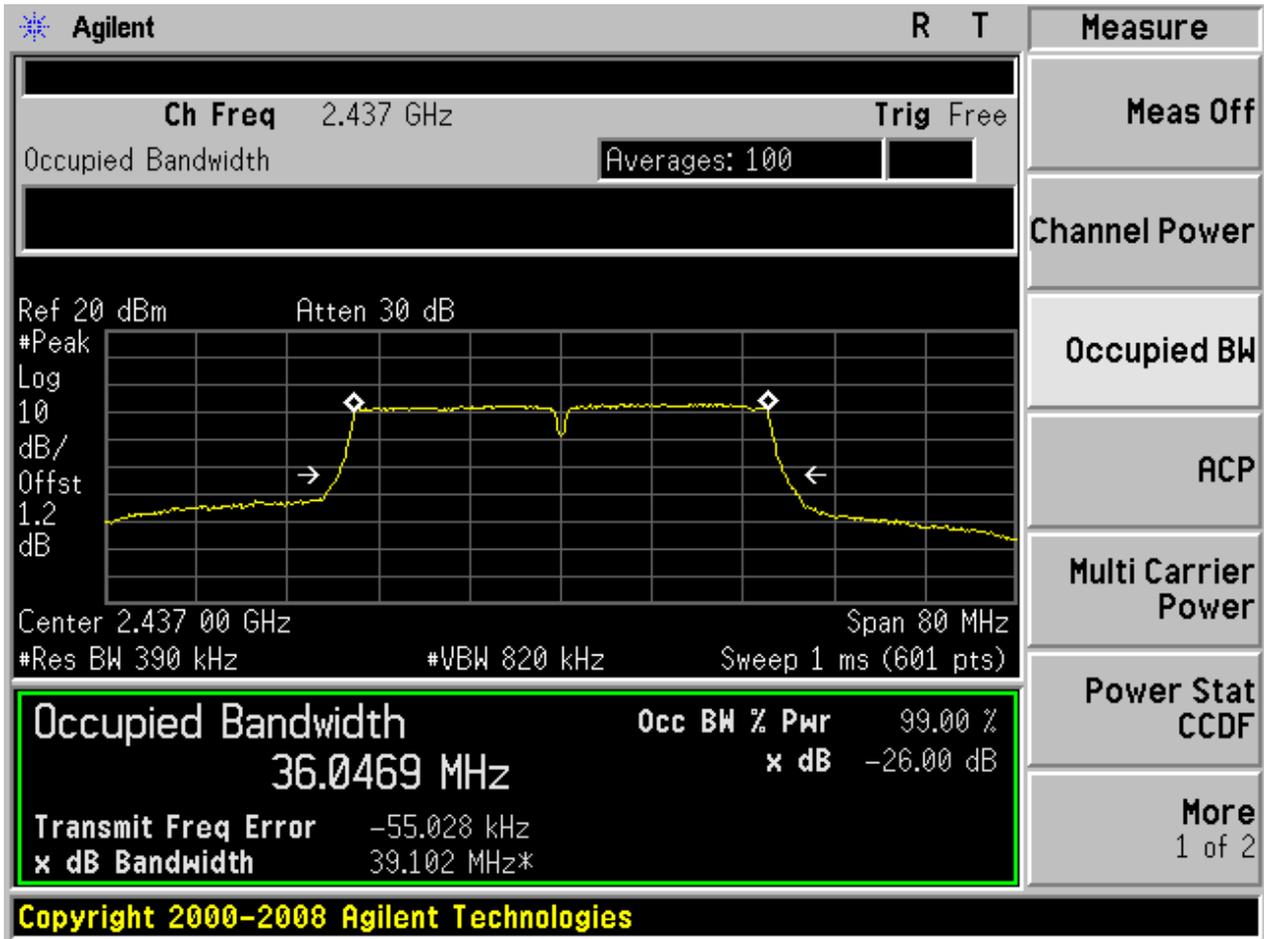
2.32 11N40m_L@Ant 2



2.34 11N40m_M@Ant 1

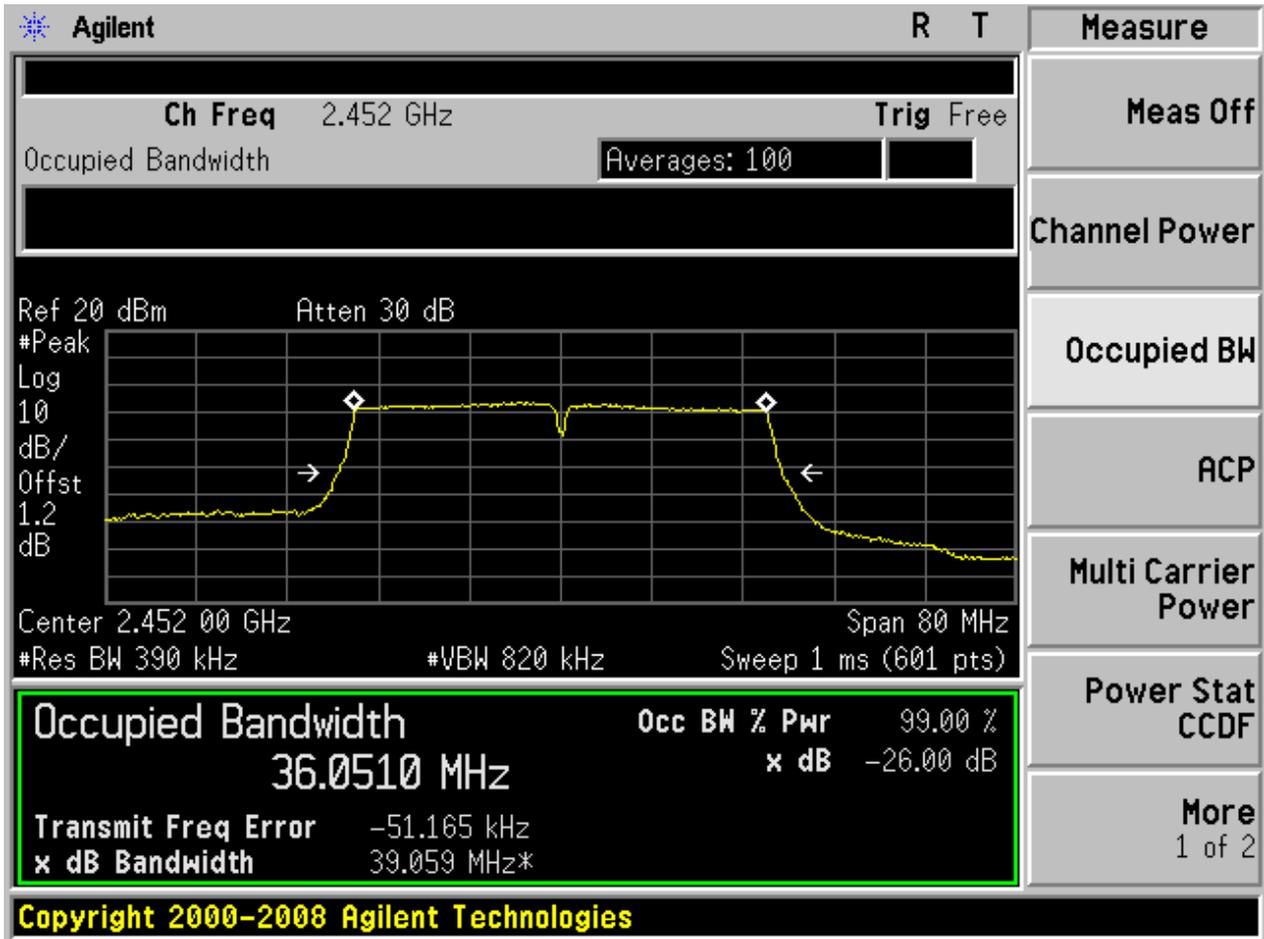


2.33 11N40m_M@Ant 2



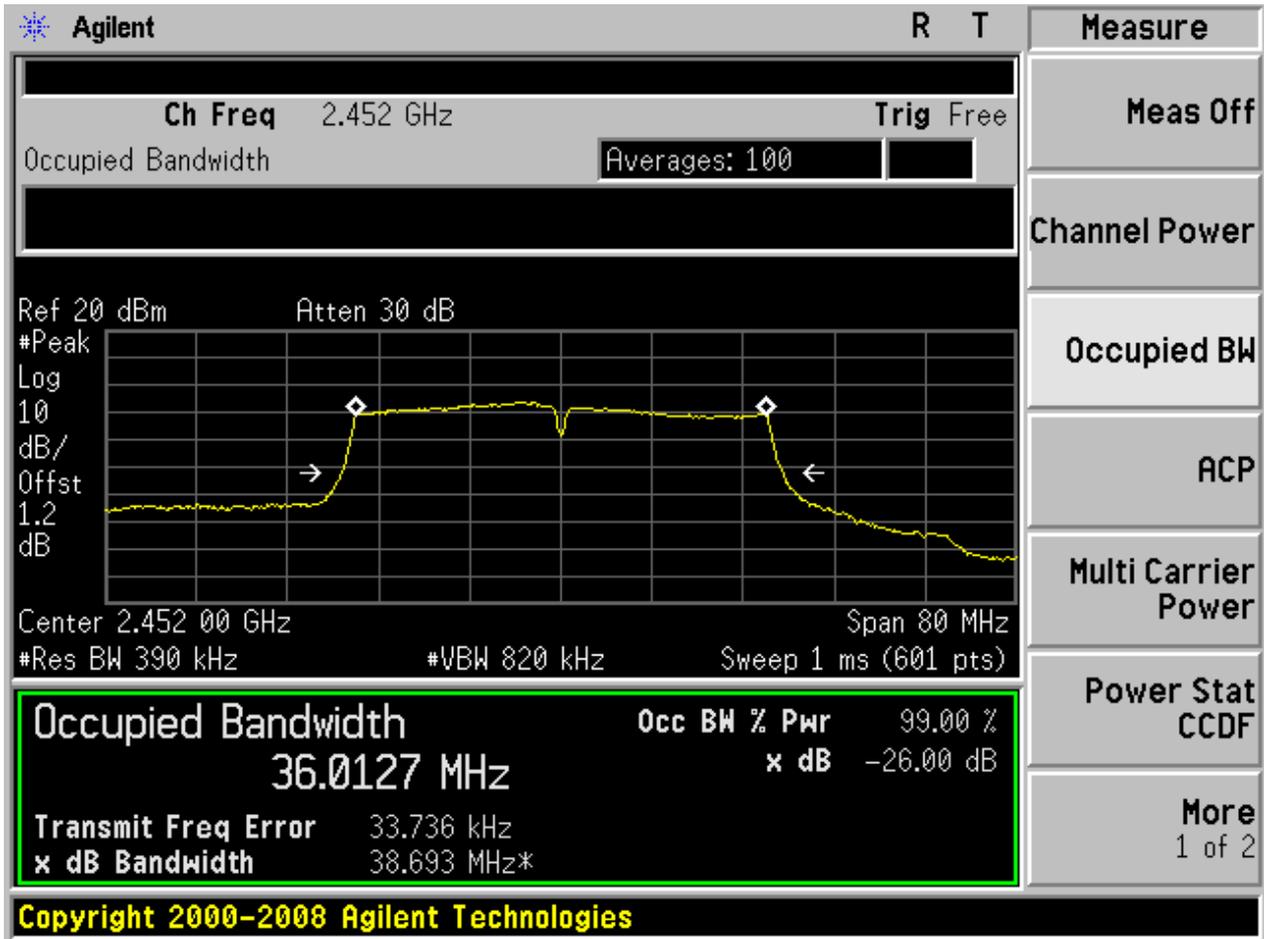


2.35 11N40m_H@Ant 1





2.36 11N40m_H@Ant 2



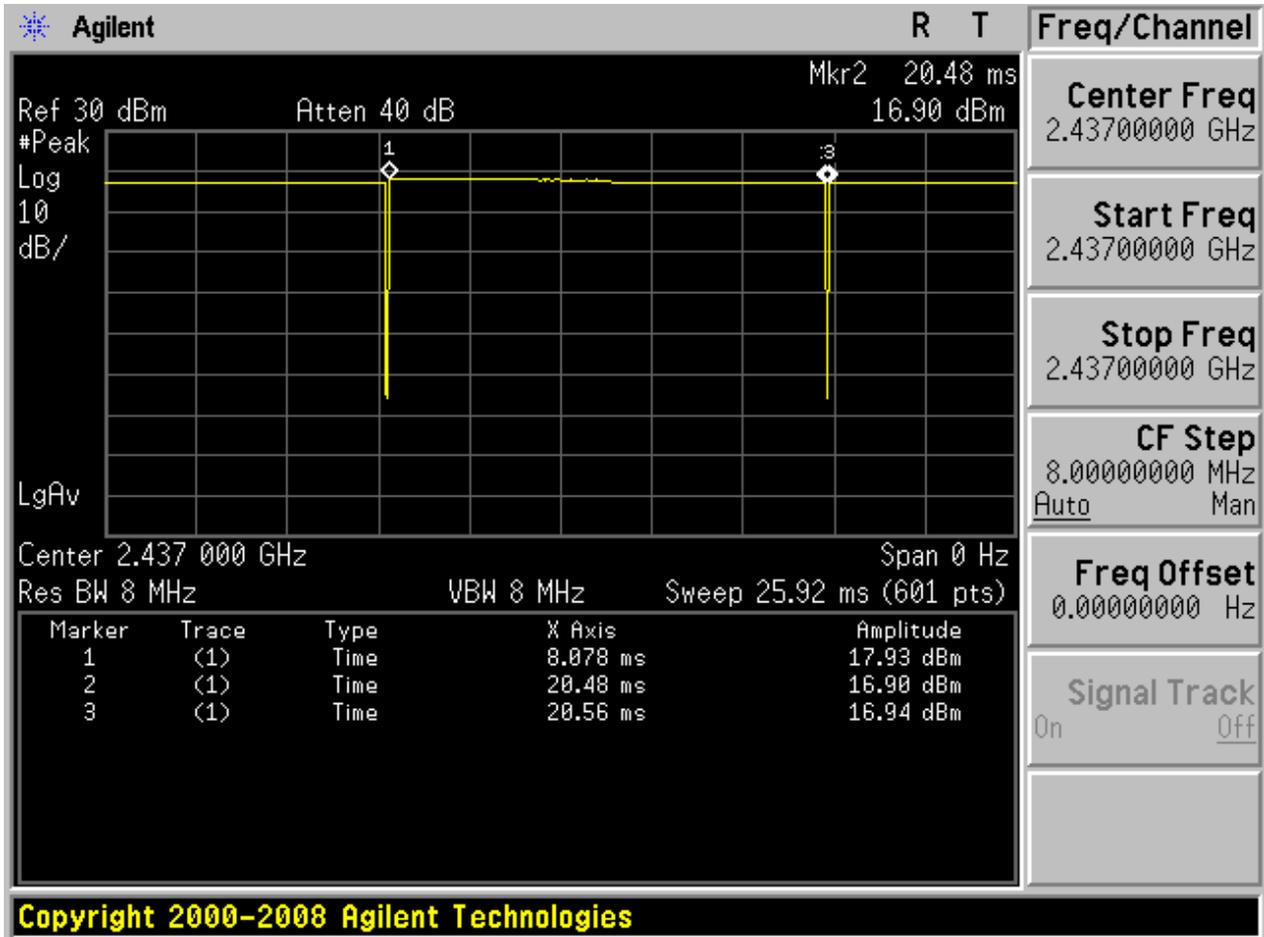
Appendix C: Duty Cycle

Part I - Test Results

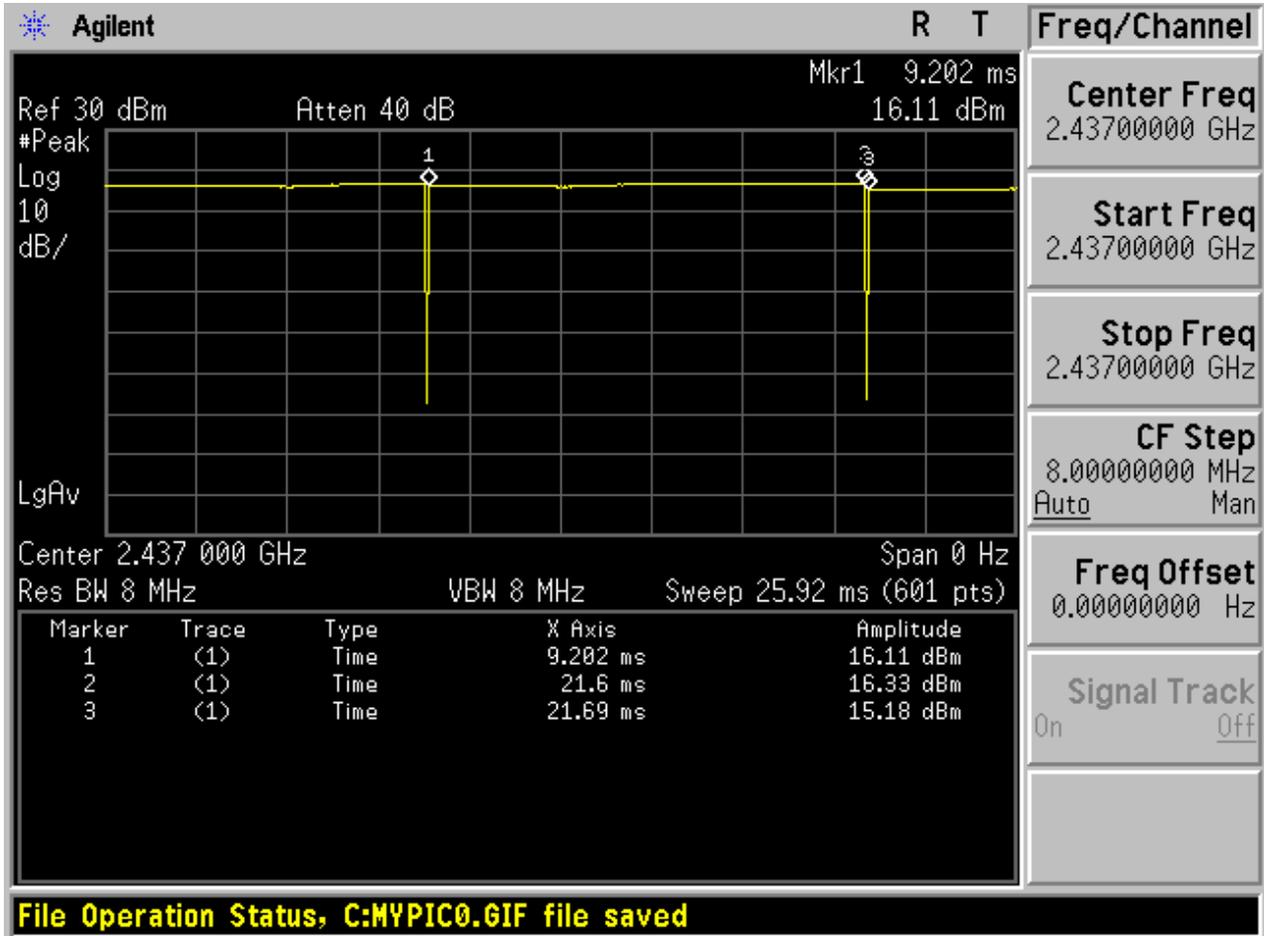
Test Mode	TX Freq. [MHz]	Ant	Duty cycle [%]
11B	CH1,CH6,CH11	Ant 1	99.3
11B	CH1,CH6,CH11	Ant 2	99.3
11G	CH1,CH6,CH11	Ant 1	95
11G	CH1,CH6,CH11	Ant 2	95
11N20SISO	CH1,CH6,CH11	Ant 1	95
11N20SISO	CH1,CH6,CH11	Ant 2	95
11N20MIMO	CH1,CH6,CH11	Ant 1	90.3
11N20MIMO	CH1,CH6,CH11	Ant 2	90.3
11N40SISO	CH3,CH6,CH9	Ant 1	90.2
11N40SISO	CH3,CH6,CH9	Ant 2	90.2
11N40MIMO	CH3,CH6,CH9	Ant 1	83
11N40MIMO	CH3,CH6,CH9	Ant 2	83

Part II - Test Plots

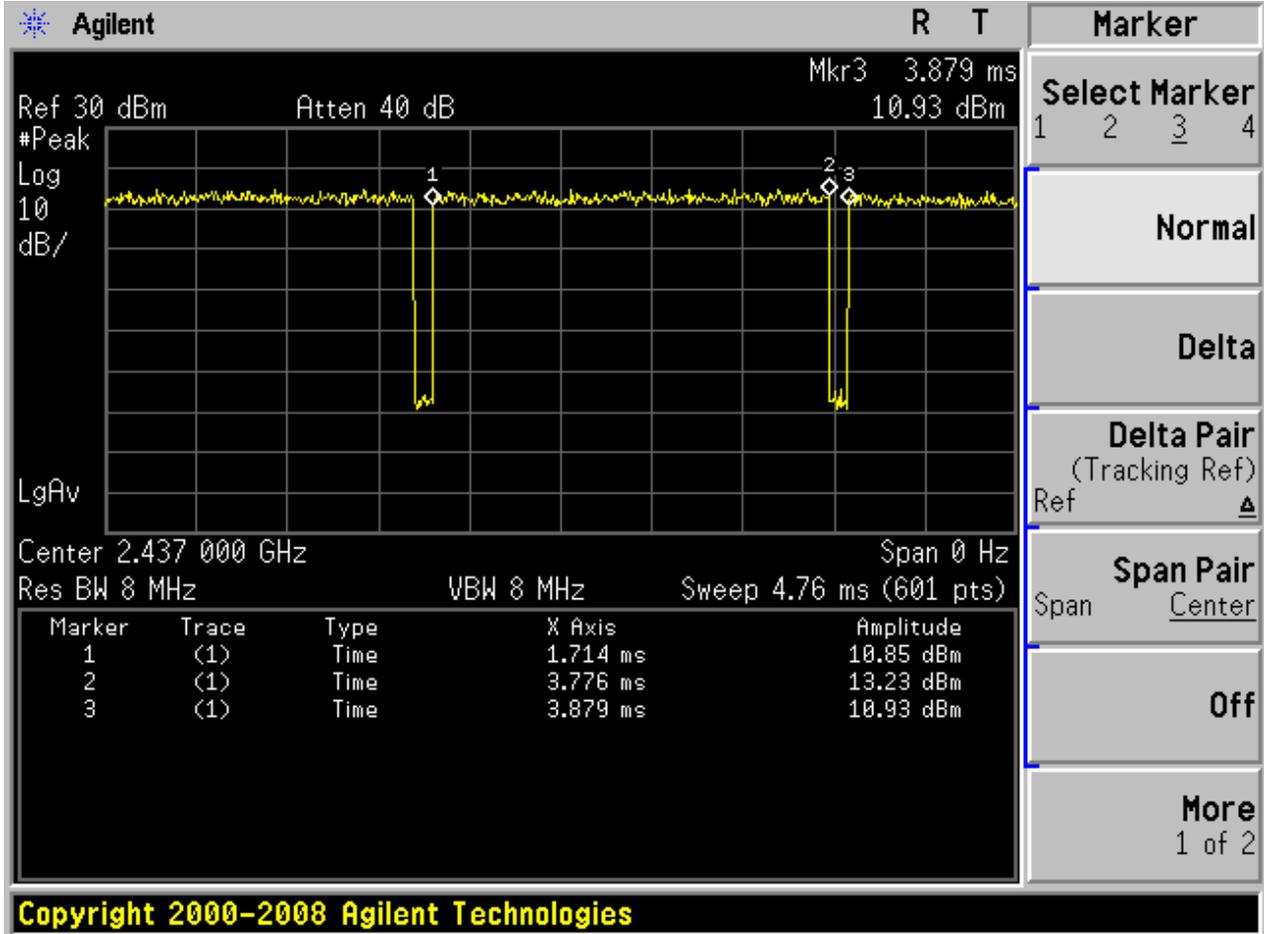
11B_ANT1



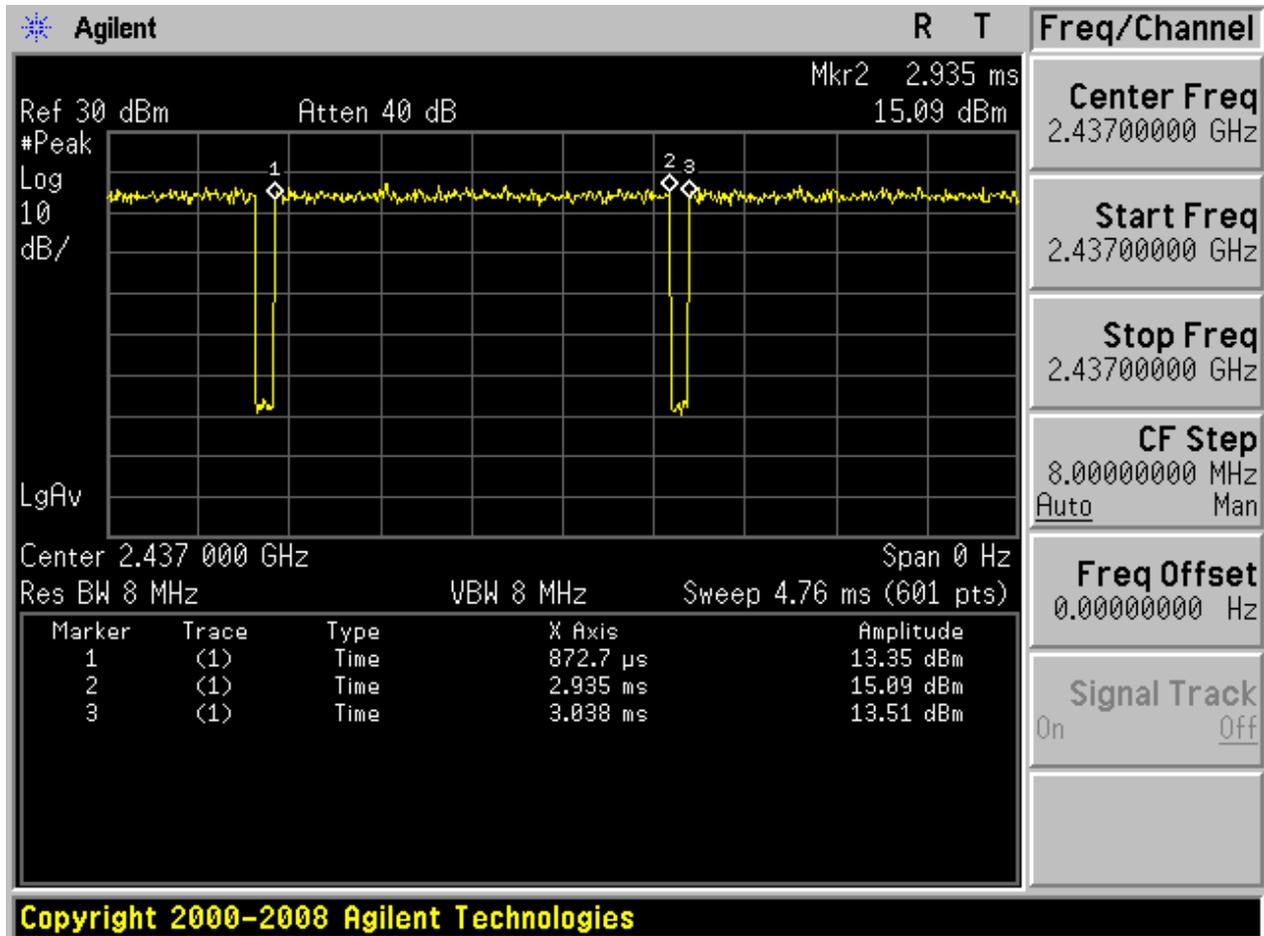
11B_ANT2



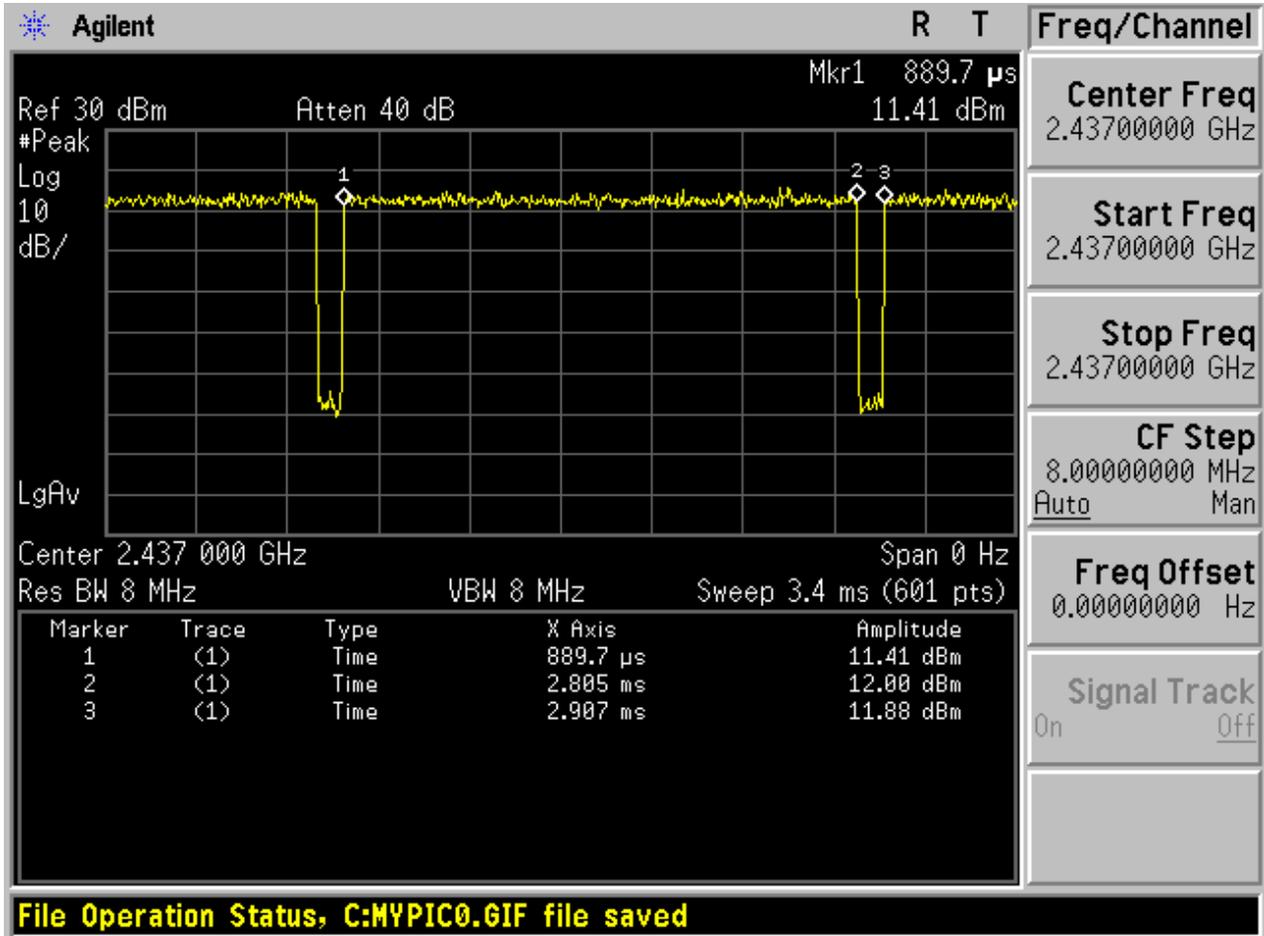
11G_ANT1



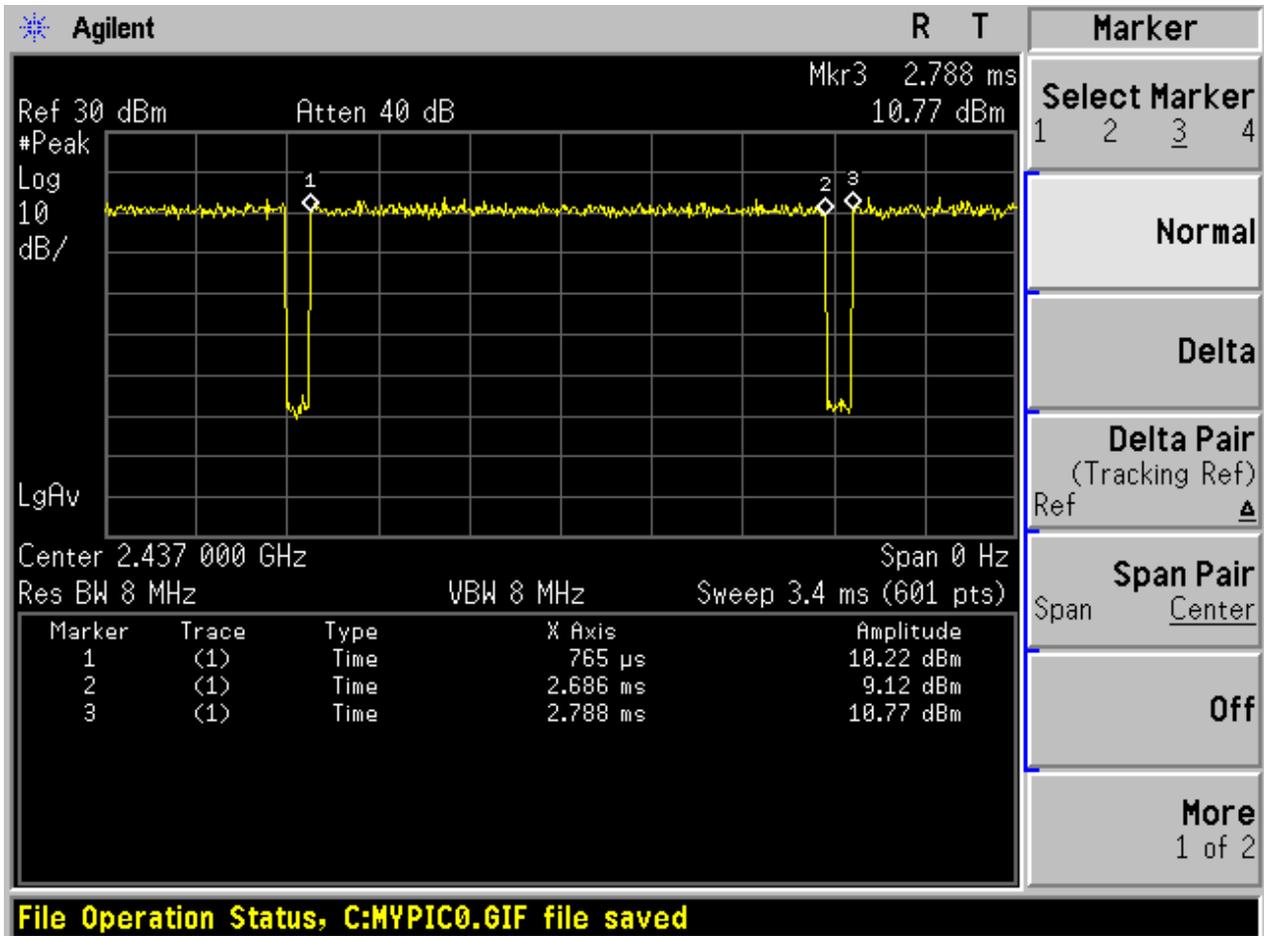
11G_ANT2



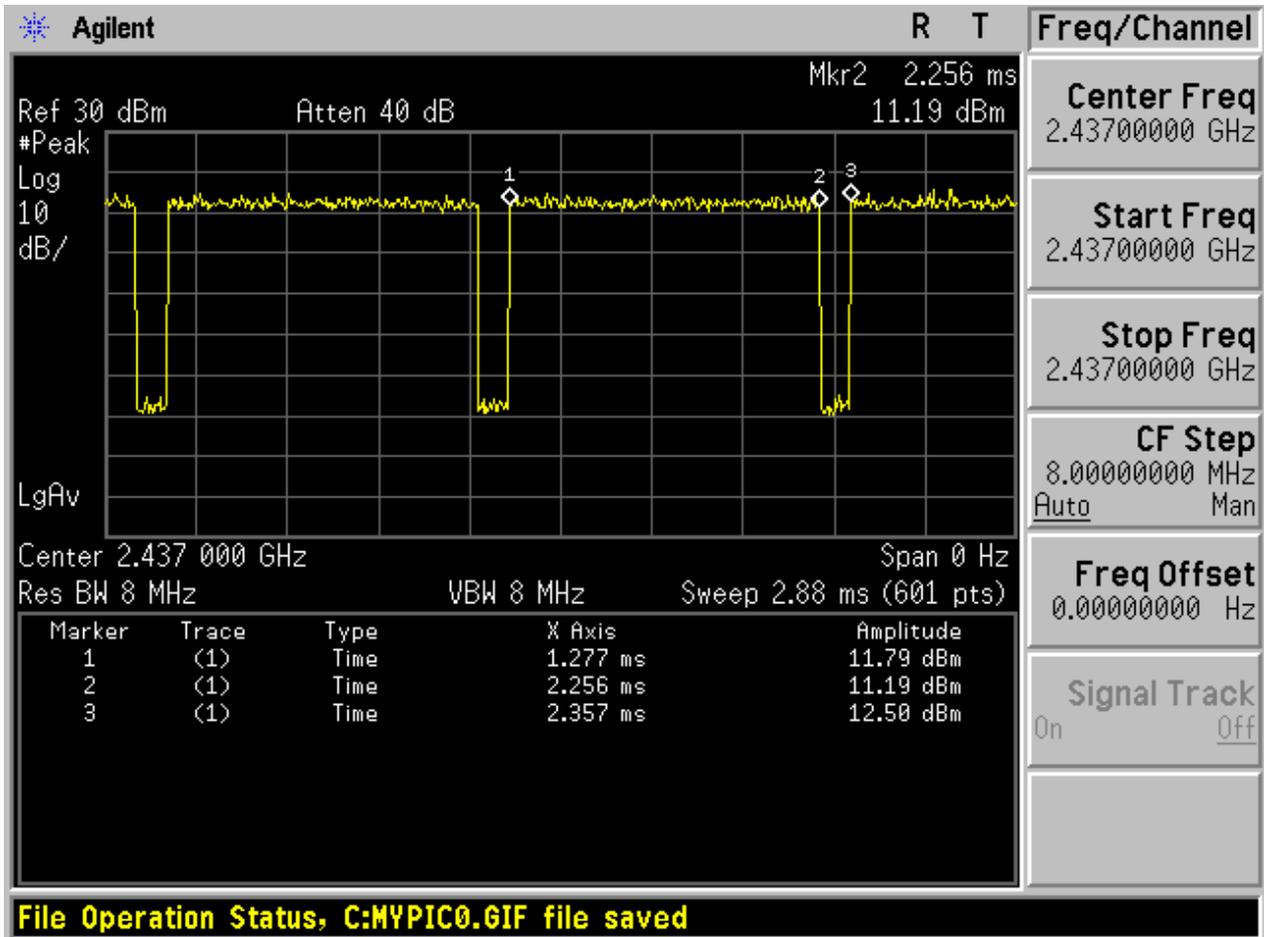
11N20SISO_ANT1



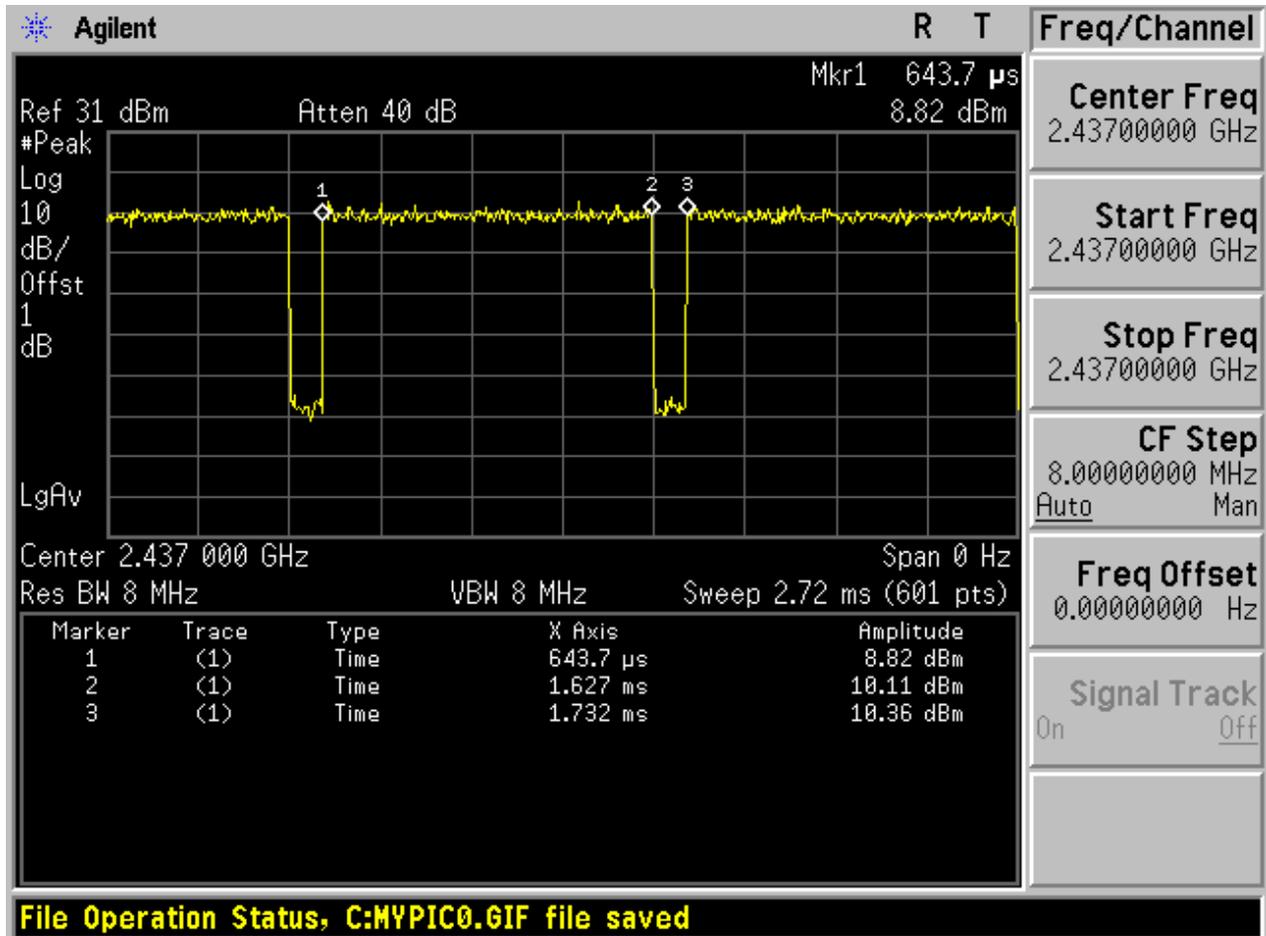
11N20SISO_ANT2



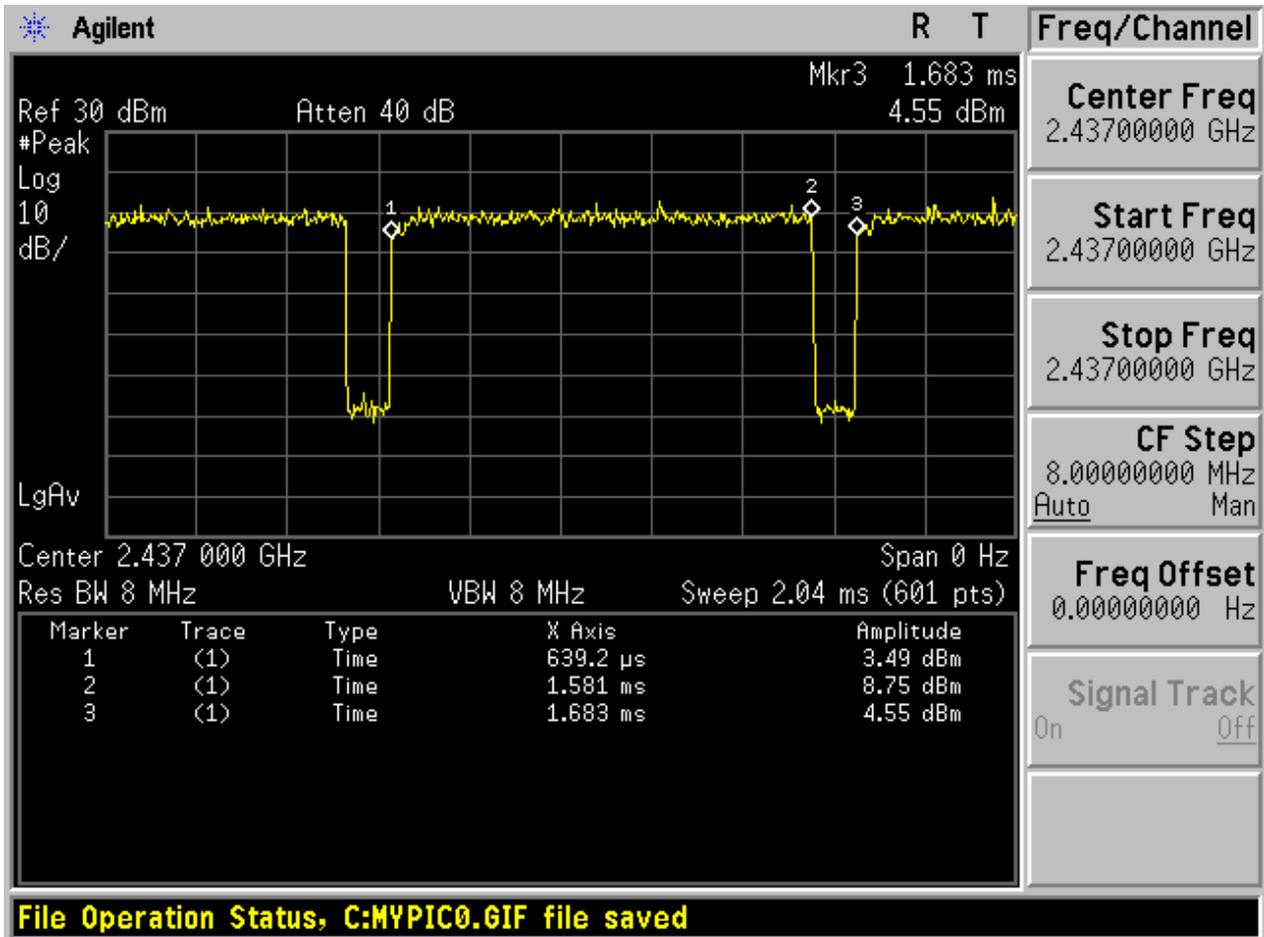
11N20MIMO_ANT1



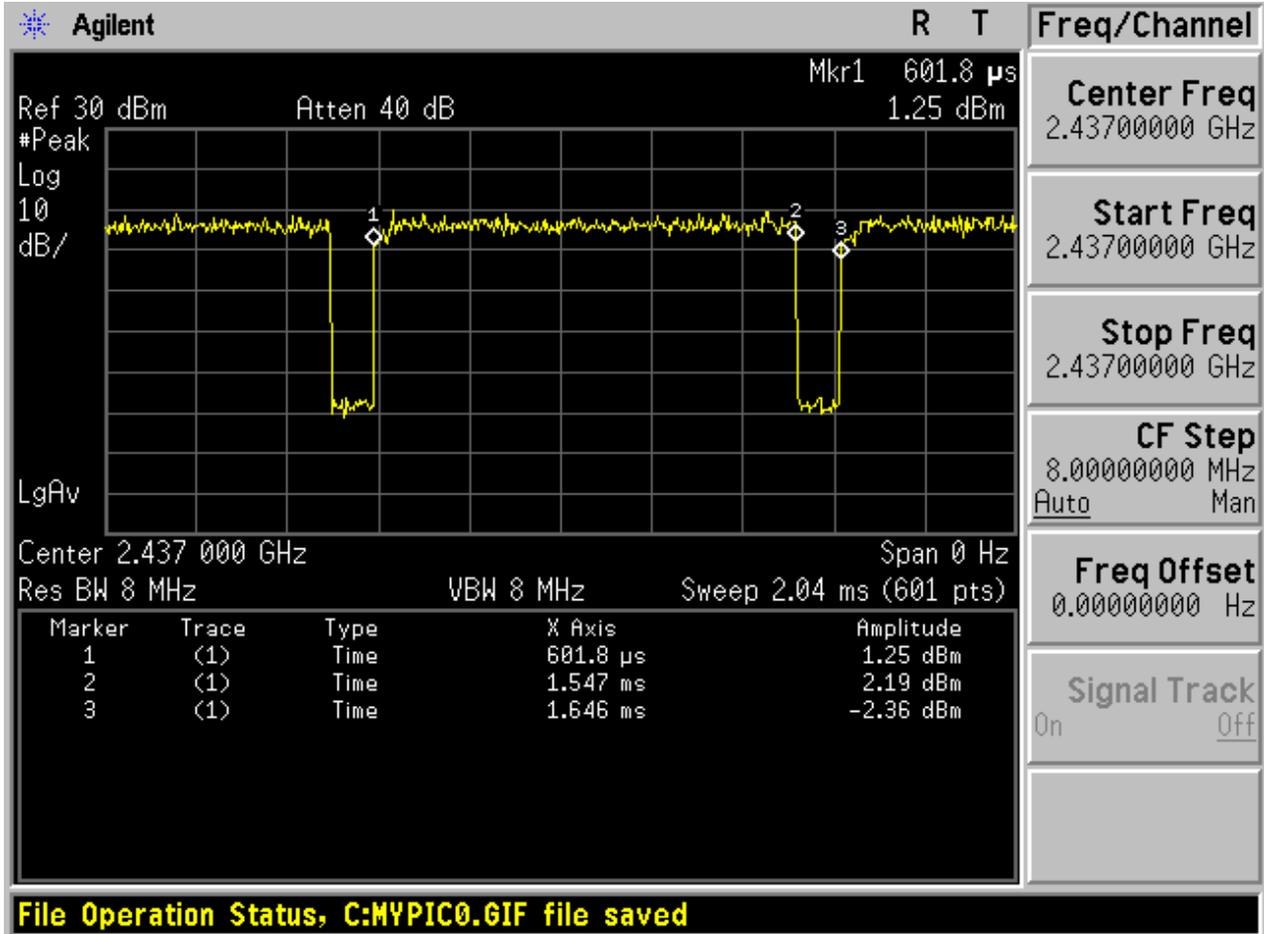
11N20MIMO_ANT2



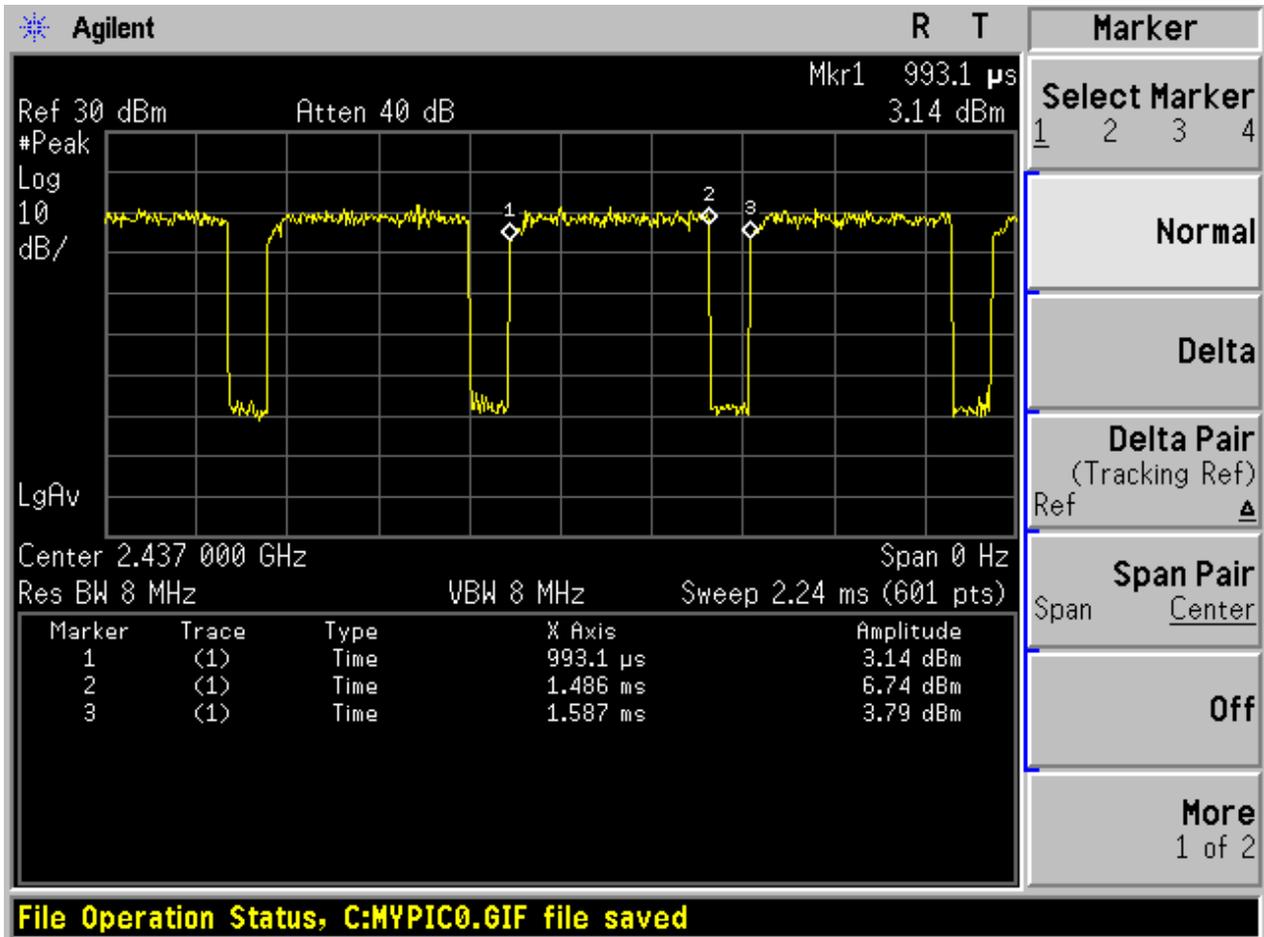
11N40SISO_ANT1



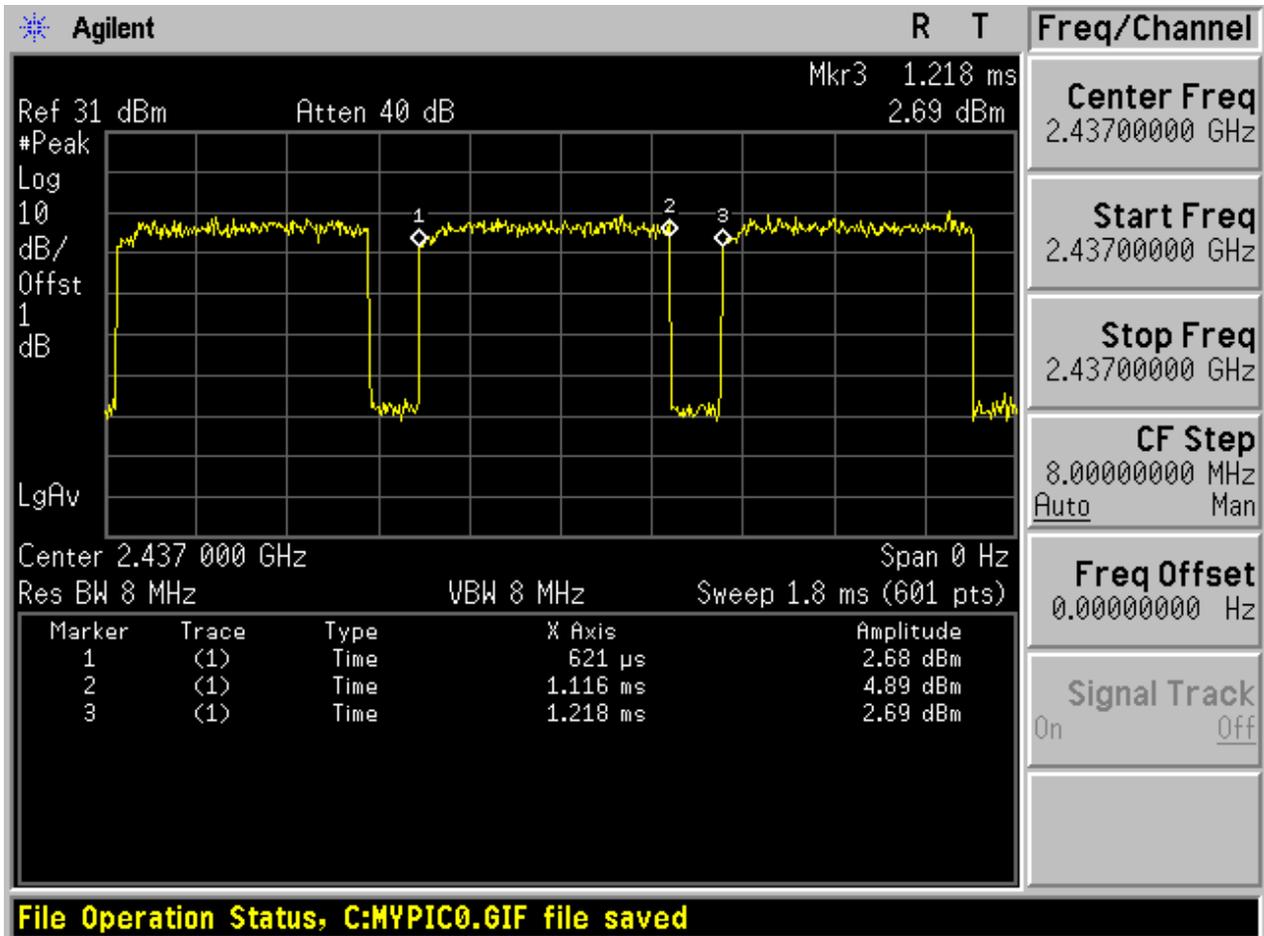
11N40SISO_ANT2



11N40MIMO_ANT0



11N40MIMO_ANT1





Appendix D: Maximum Conducted Average Output Power

Part I - Test Results

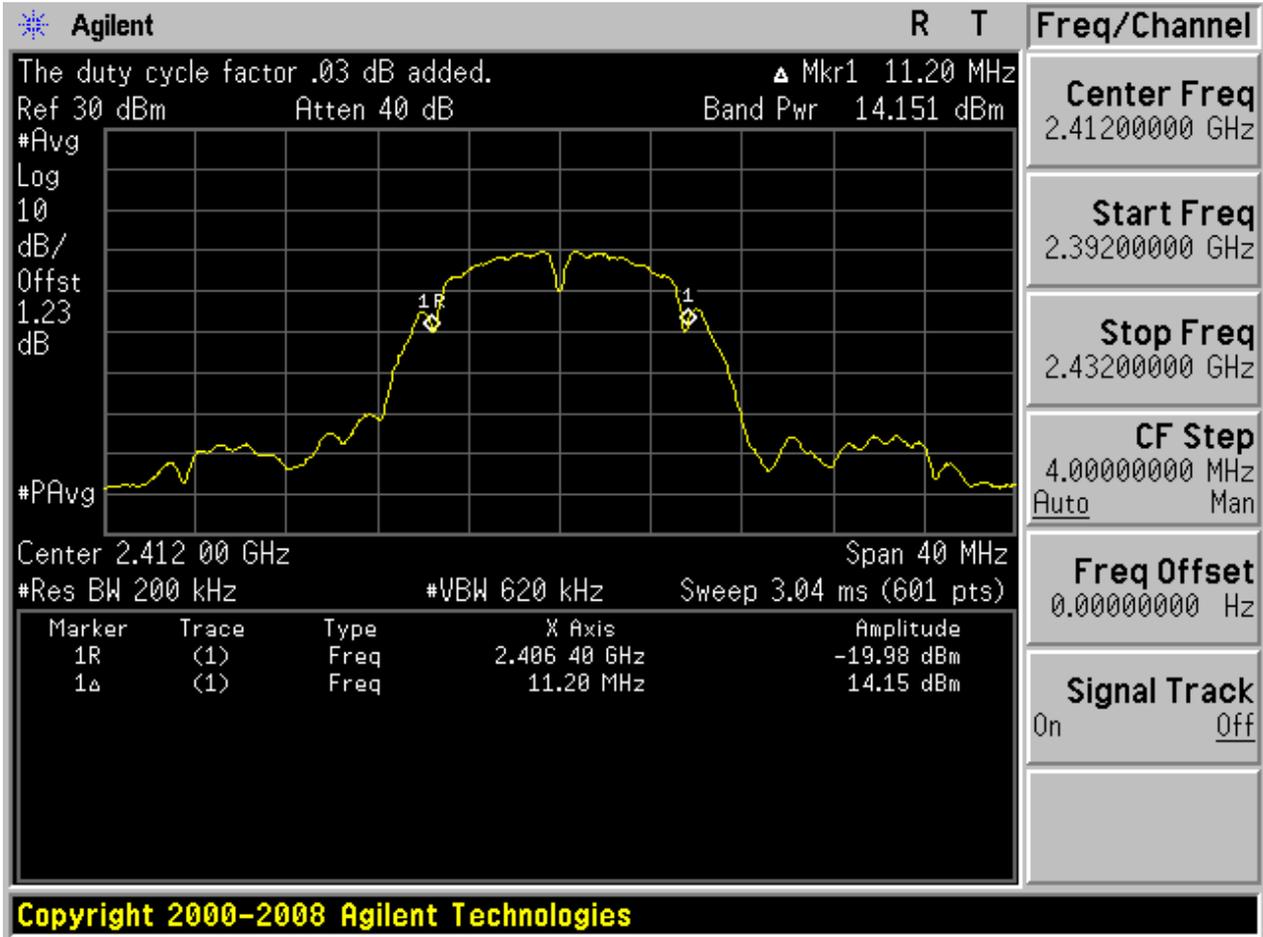
Test Mode	Test Channel	Frequency[MHz]	Ant	Power[dBm]	Verdict
11B	L	2412	Ant 1	14.27	pass
11B	L	2412	Ant 2	14.15	pass
11B	M	2437	Ant 1	12.31	pass
11B	M	2437	Ant 2	12.28	pass
11B	H	2462	Ant 1	13.75	pass
11B	H	2462	Ant 2	12.80	pass
11G	L	2412	Ant 1	11.91	pass
11G	L	2412	Ant 2	11.48	pass
11G	M	2437	Ant 1	11.57	pass
11G	M	2437	Ant 2	10.10	pass
11G	H	2462	Ant 1	11.64	pass
11G	H	2462	Ant 2	10.53	pass
11N20	L	2412	Ant 1	10.72	pass
11N20	L	2412	Ant 2	10.41	pass
11N20	M	2437	Ant 1	10.49	pass
11N20	M	2437	Ant 2	8.86	pass
11N20	H	2462	Ant 1	10.61	pass
11N20	H	2462	Ant 2	9.58	pass
11N20m	L	2412	Ant 1	9.38	pass
11N20m	L	2412	Ant 2	9.06	pass
11N20m	L	2412	sum	12.23	pass
11N20m	M	2437	Ant 1	9.26	pass
11N20m	M	2437	Ant 2	7.57	pass
11N20m	M	2437	sum	11.51	pass
11N20m	H	2462	Ant 1	9.31	pass
11N20m	H	2462	Ant 2	8.12	pass
11N20m	H	2462	sum	11.77	pass
11N40	L	2422	Ant 1	9.70	pass
11N40	L	2422	Ant 2	9.04	pass
11N40	M	2437	Ant 1	8.51	pass
11N40	M	2437	Ant 2	9.87	pass
11N40	H	2452	Ant 1	9.89	pass
11N40	H	2452	Ant 2	8.55	pass
11N40m	L	2422	Ant 1	9.33	pass



Test Mode	Test Channel	Frequency[MHz]	Ant	Power[dBm]	Verdict
11N40m	L	2422	Ant 2	8.25	pass
11N40m	L	2422	sum	11.83	pass
11N40m	M	2437	Ant 1	8.23	pass
11N40m	M	2437	Ant 2	9.36	pass
11N40m	M	2437	sum	11.84	pass
11N40m	H	2452	Ant 1	9.37	pass
11N40m	H	2452	Ant 2	8.10	pass
11N40m	H	2452	sum	11.79	pass



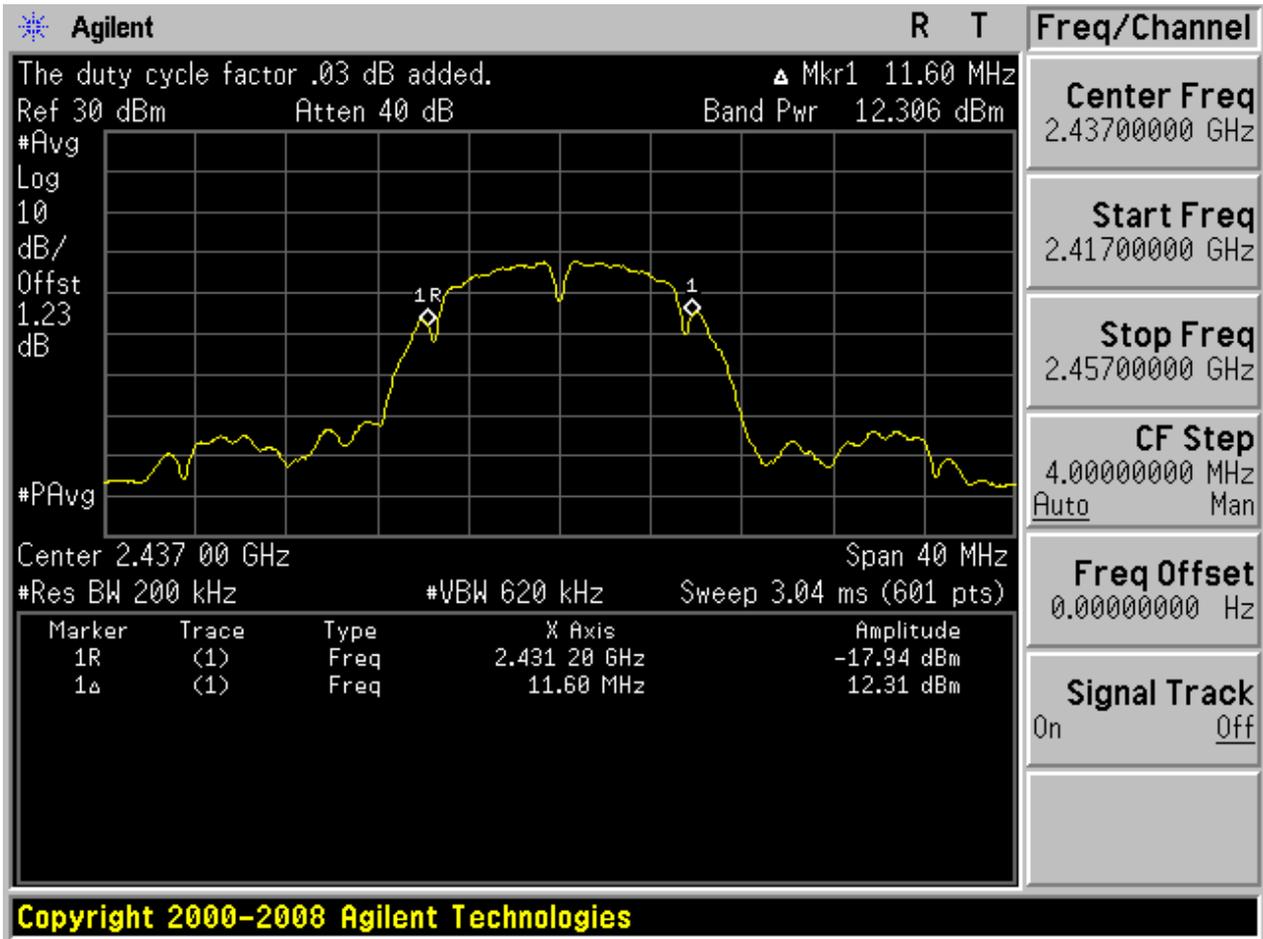
2.2 11B_L@Ant 2



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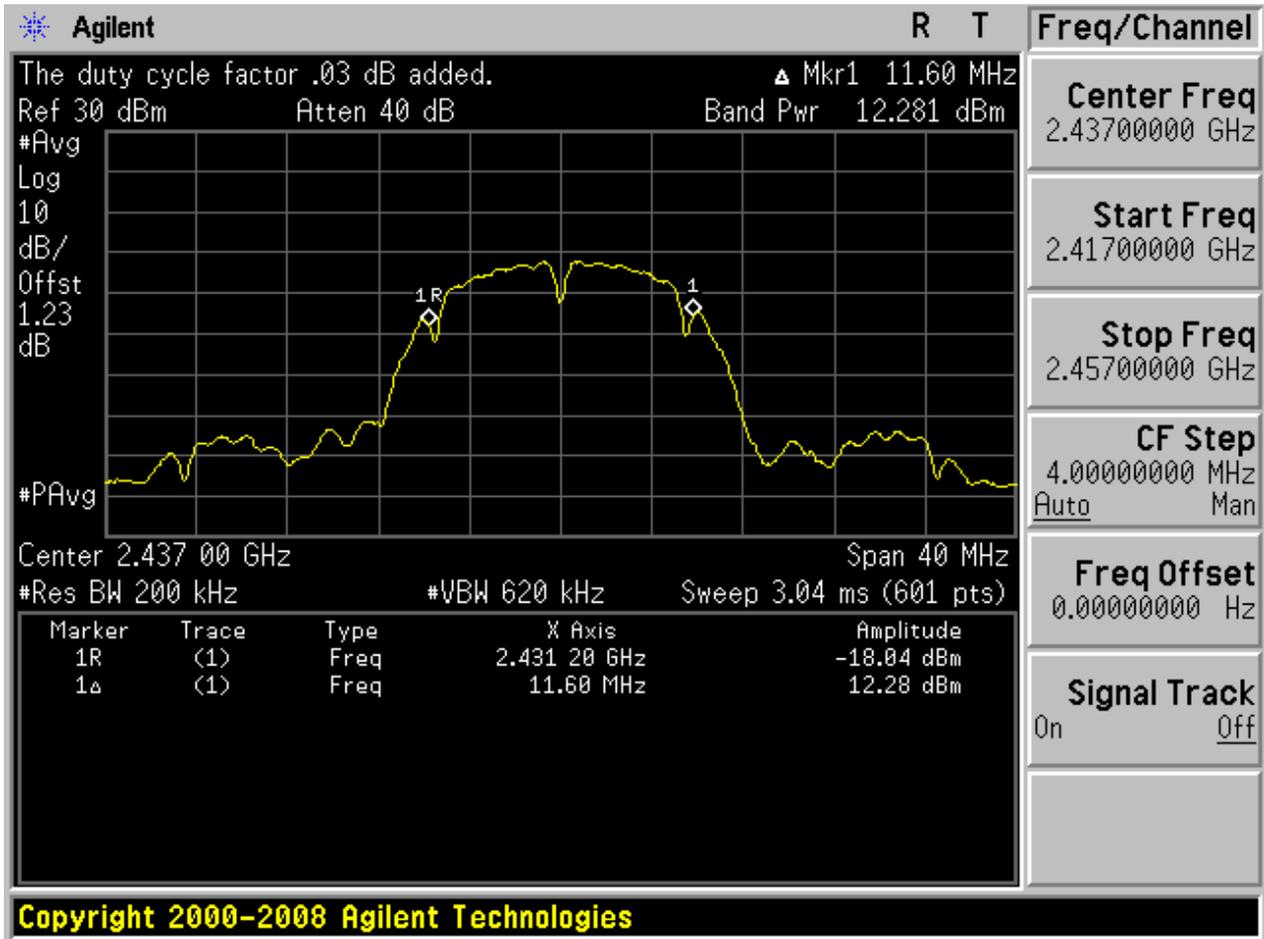


2.3 11B_M@Ant 1



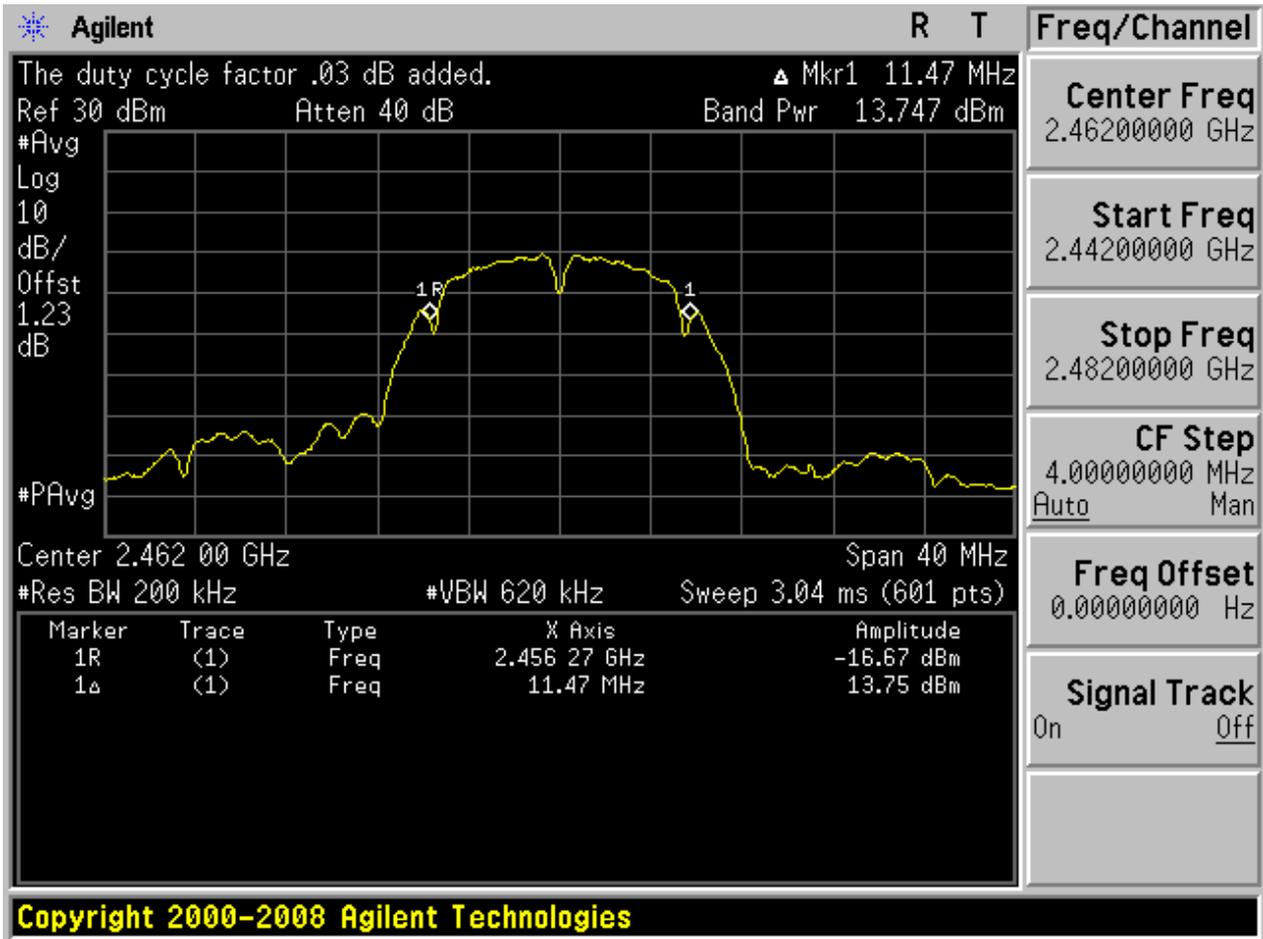


2.4 11B_M@Ant 2



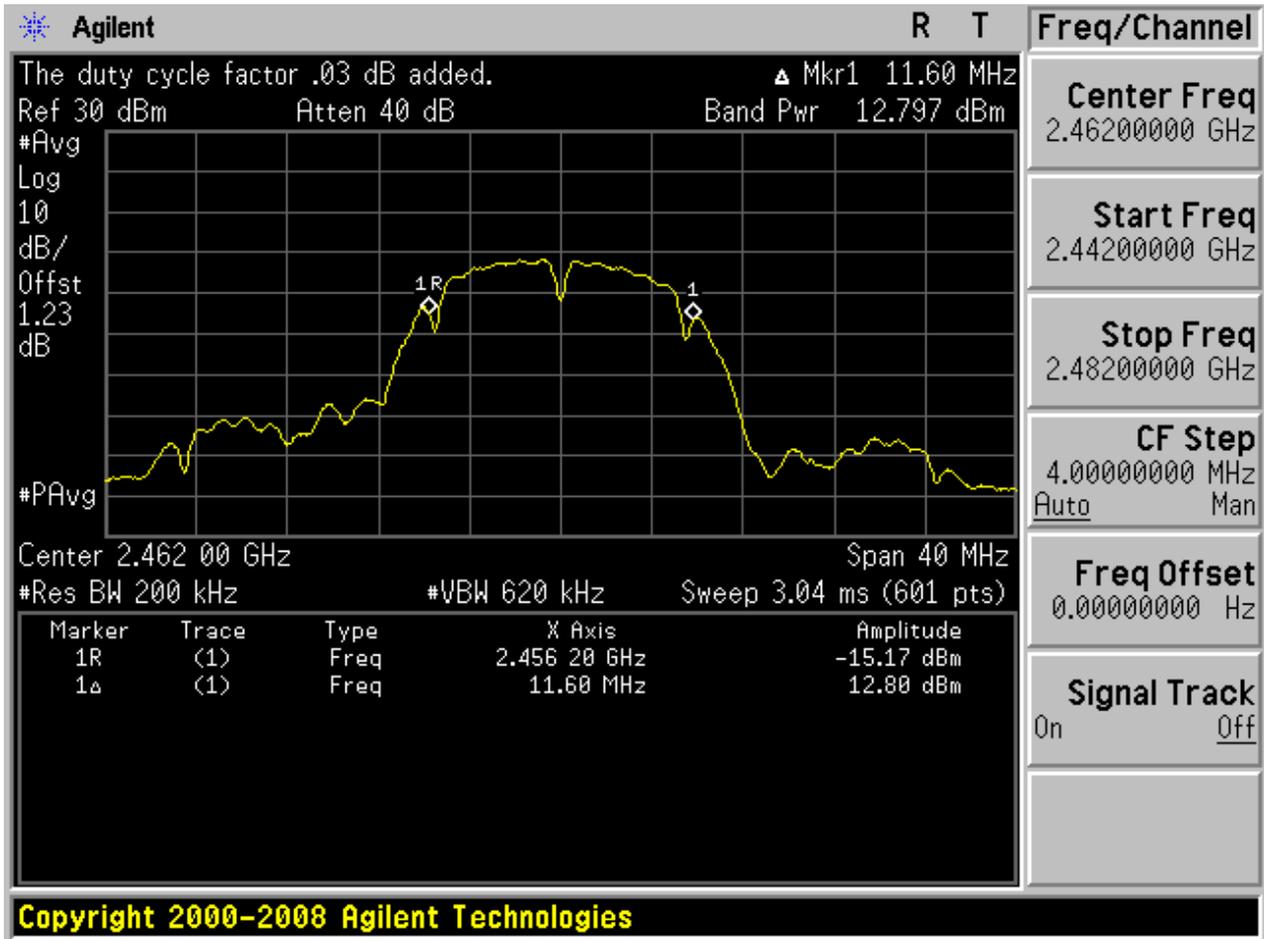


2.5 11B_H@Ant 1



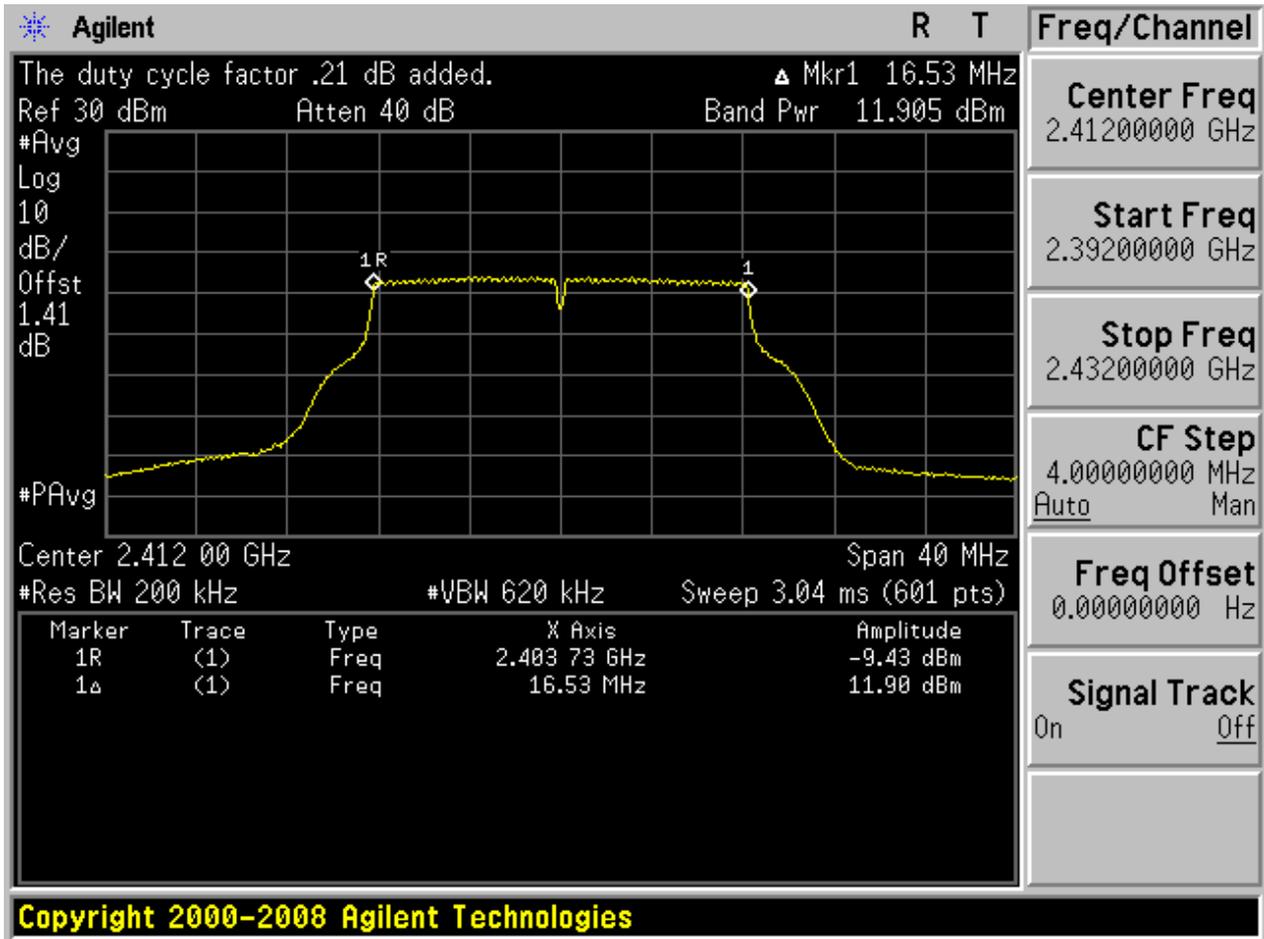


2.6 11B_H@Ant 2





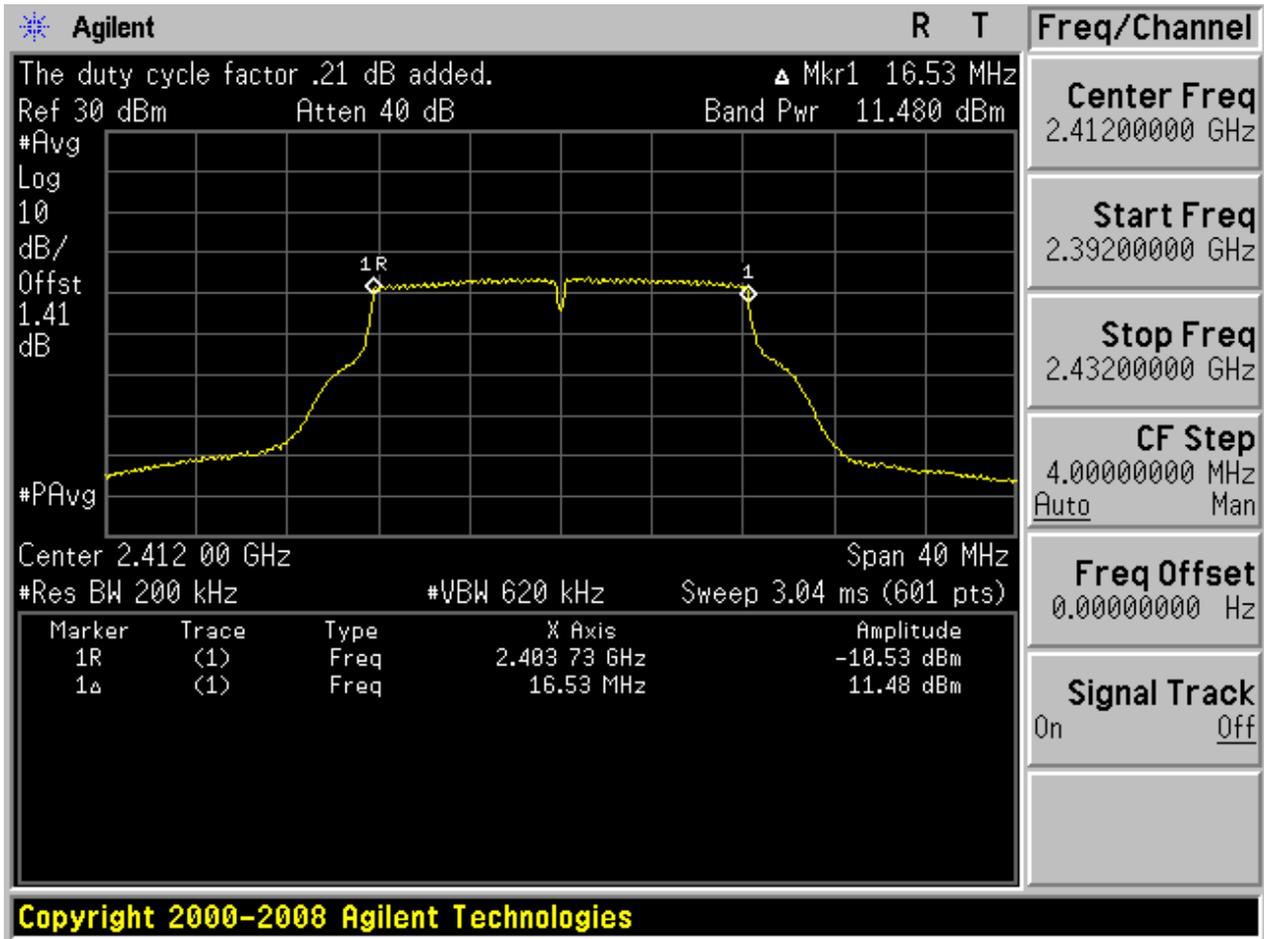
2.7 11G_L@Ant 1



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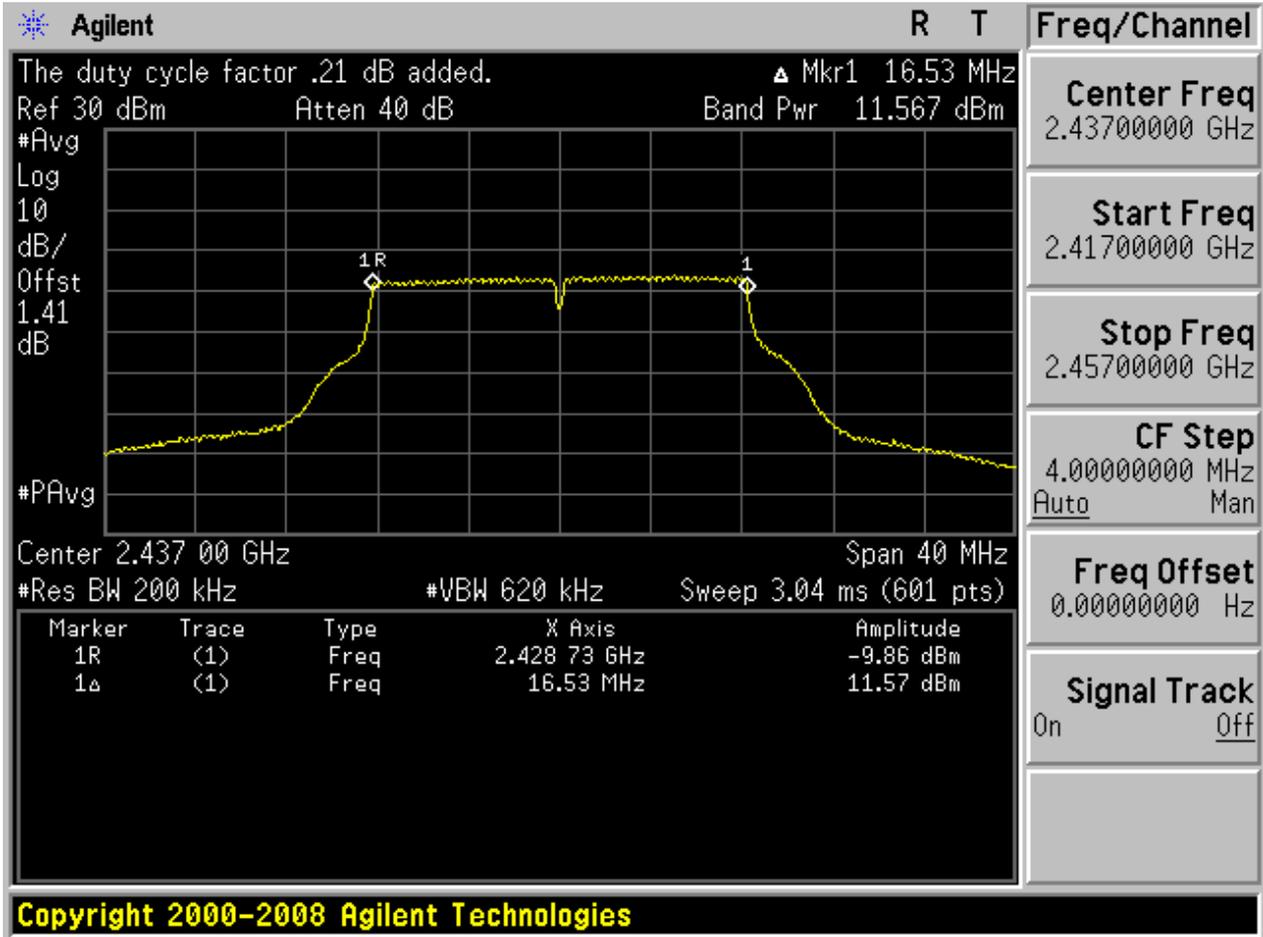


2.8 11G_L@Ant 2





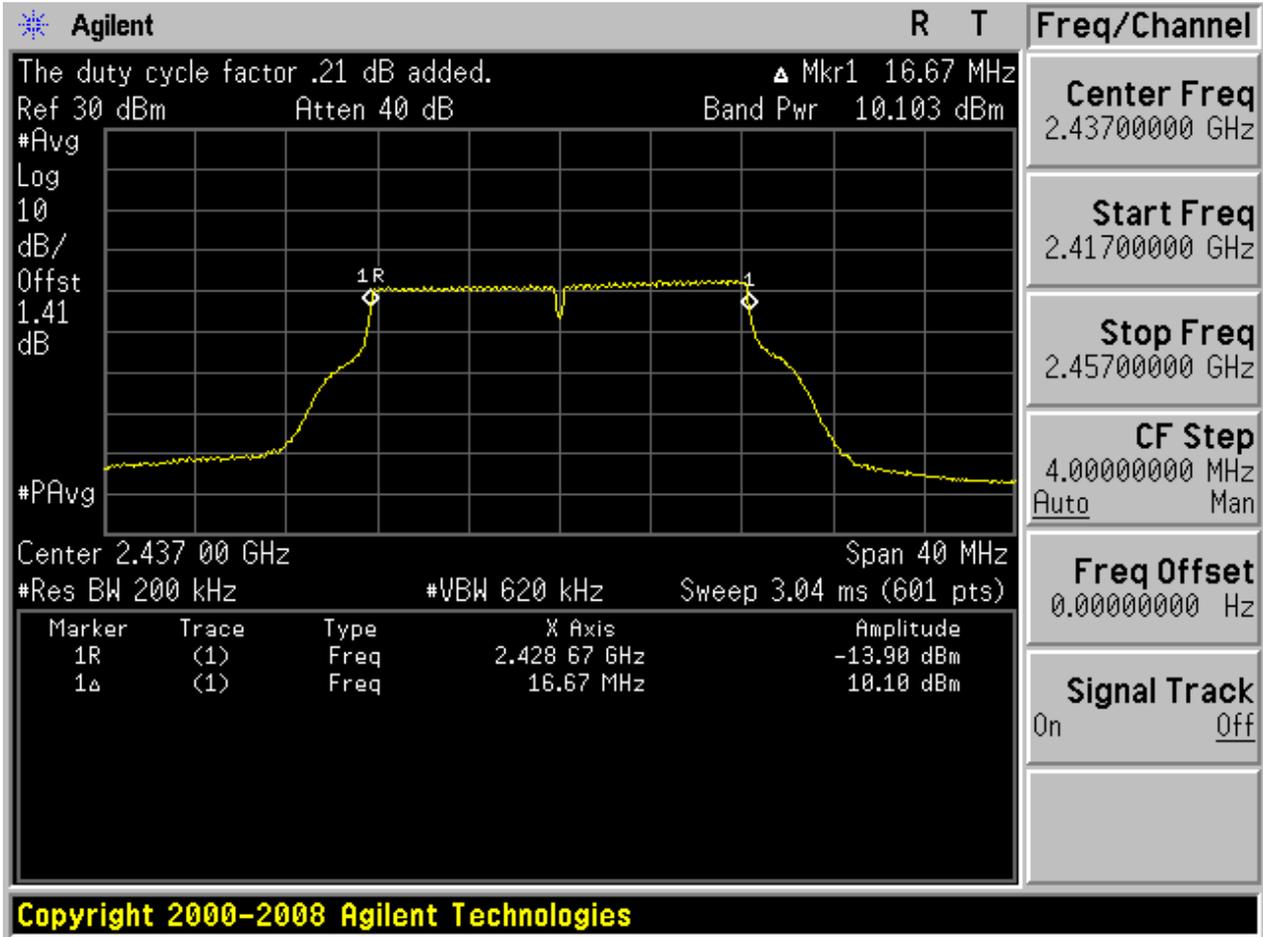
2.9 11G_M@Ant 1



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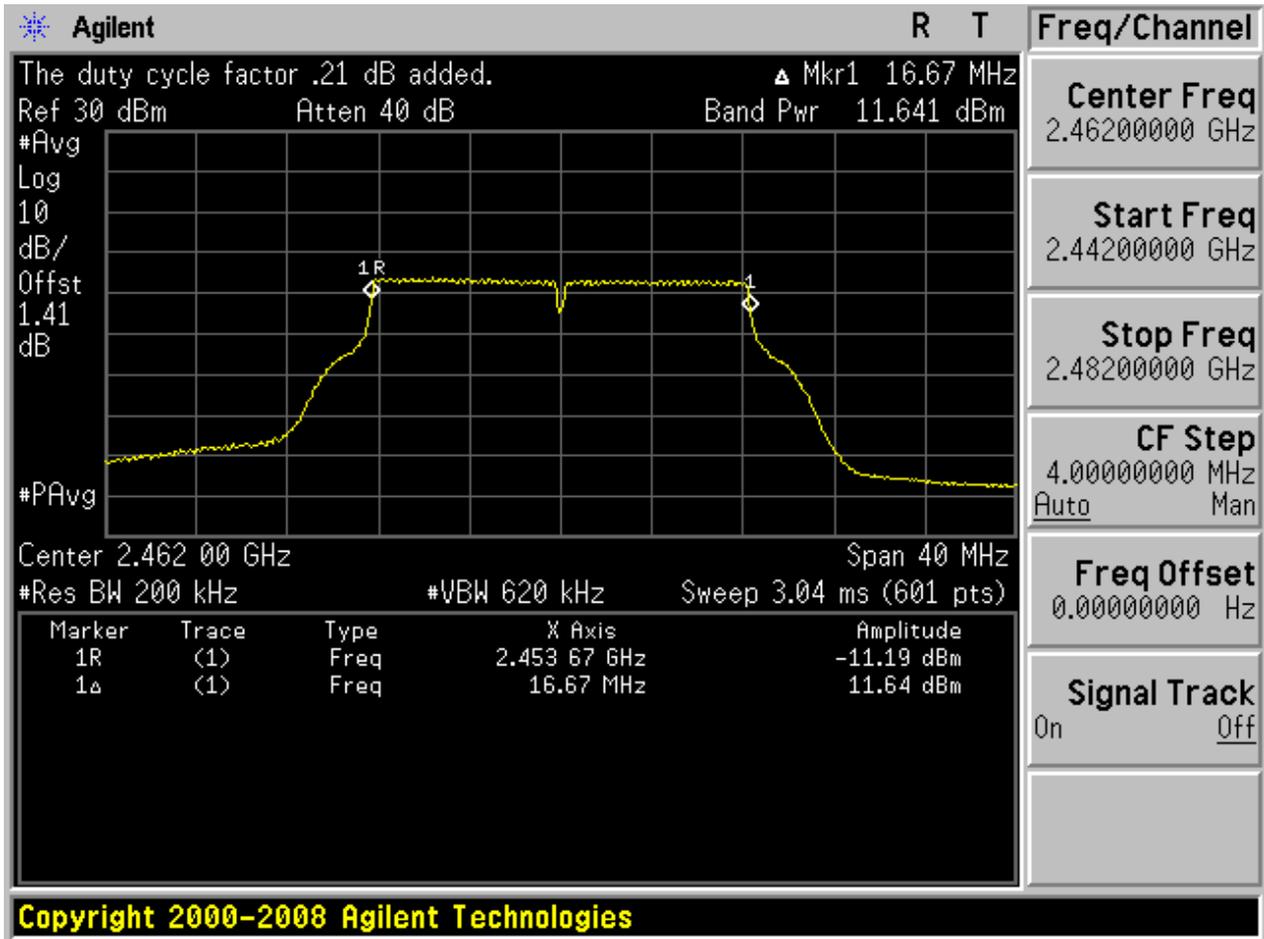


2.10 11G_M@Ant 2



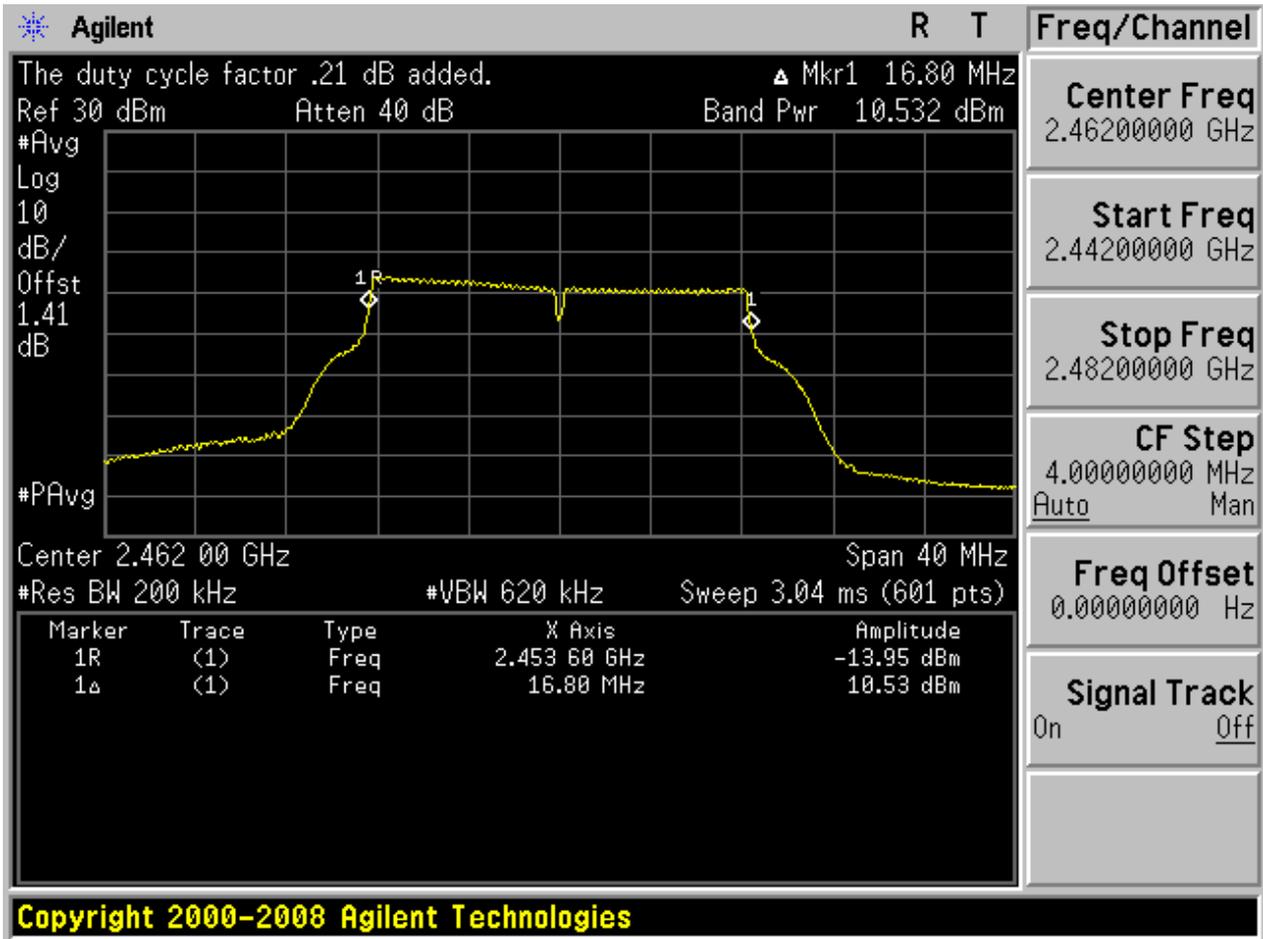


2.11 11G_H@Ant 1



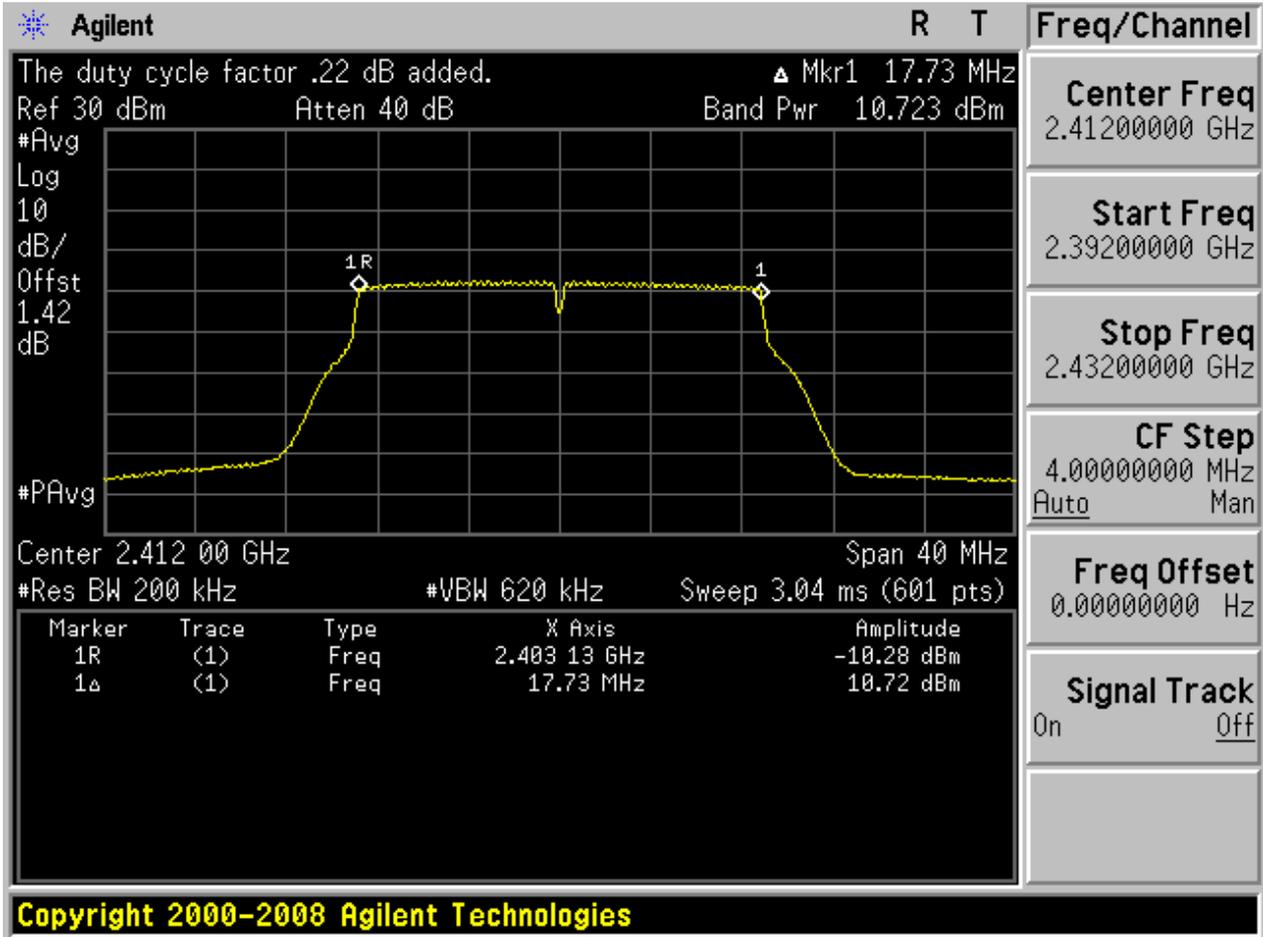


2.12 11G_H@Ant 2



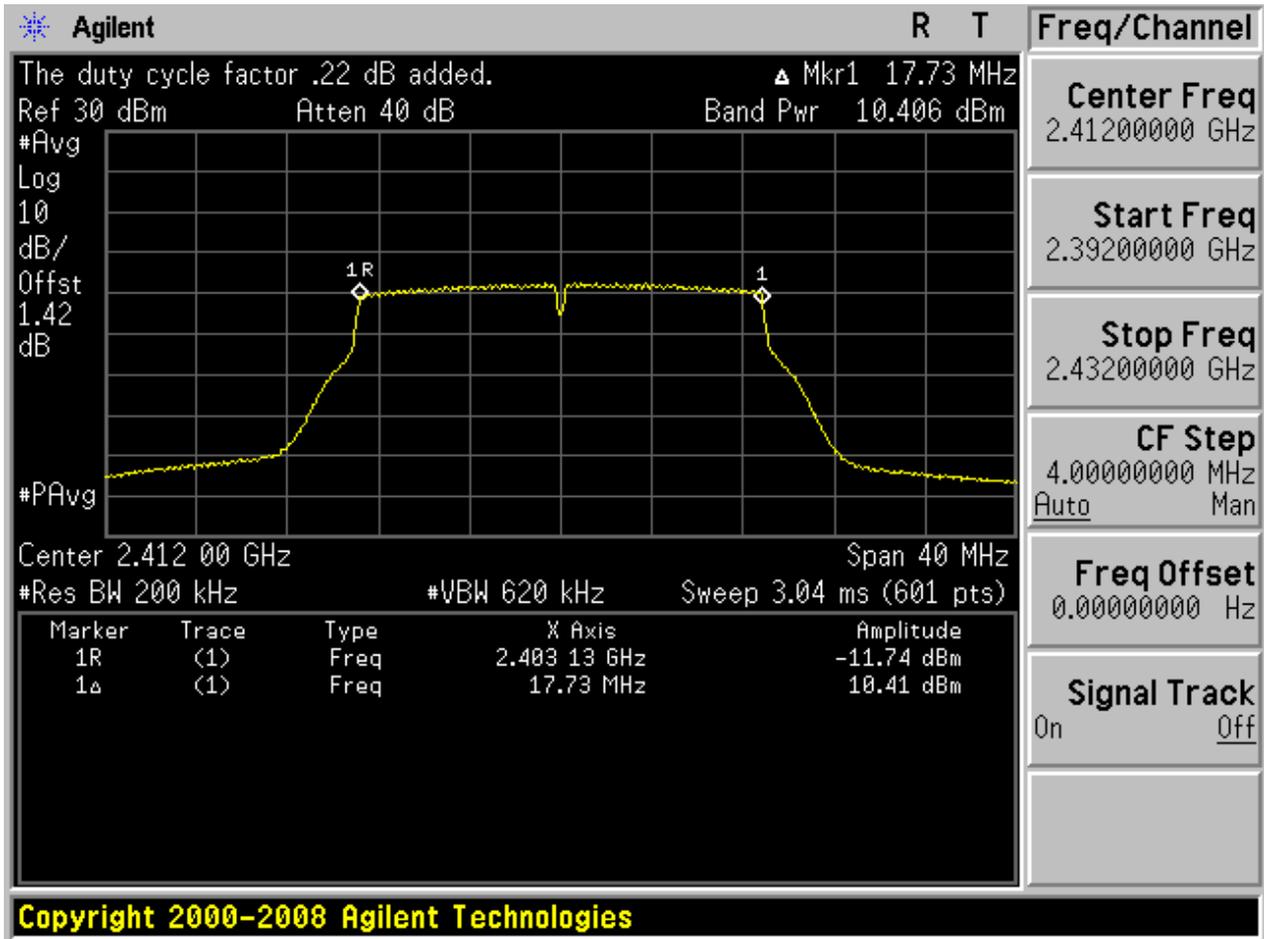


2.13 11N20_L@Ant 1



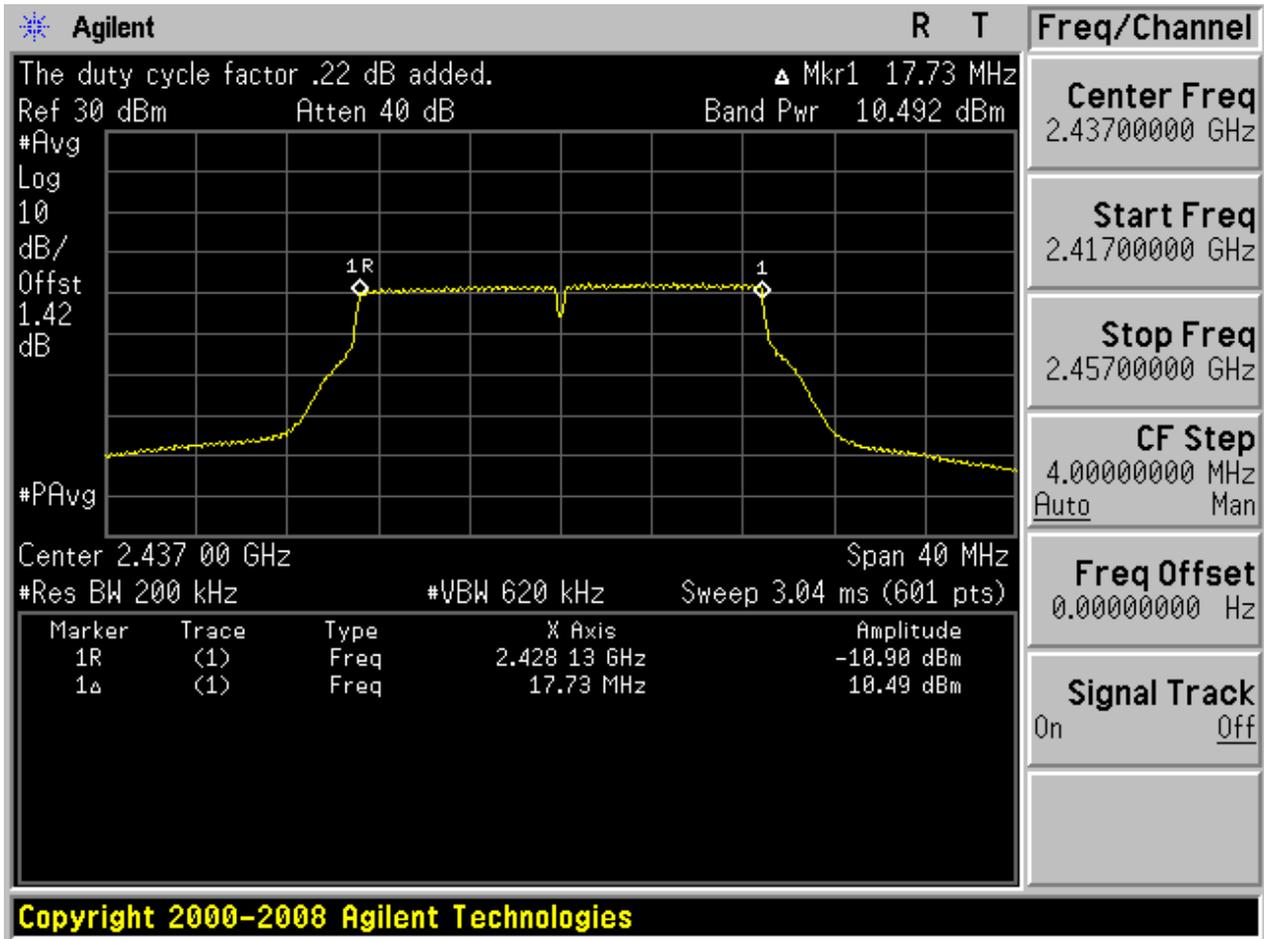


2.14 11N20_L@Ant 2





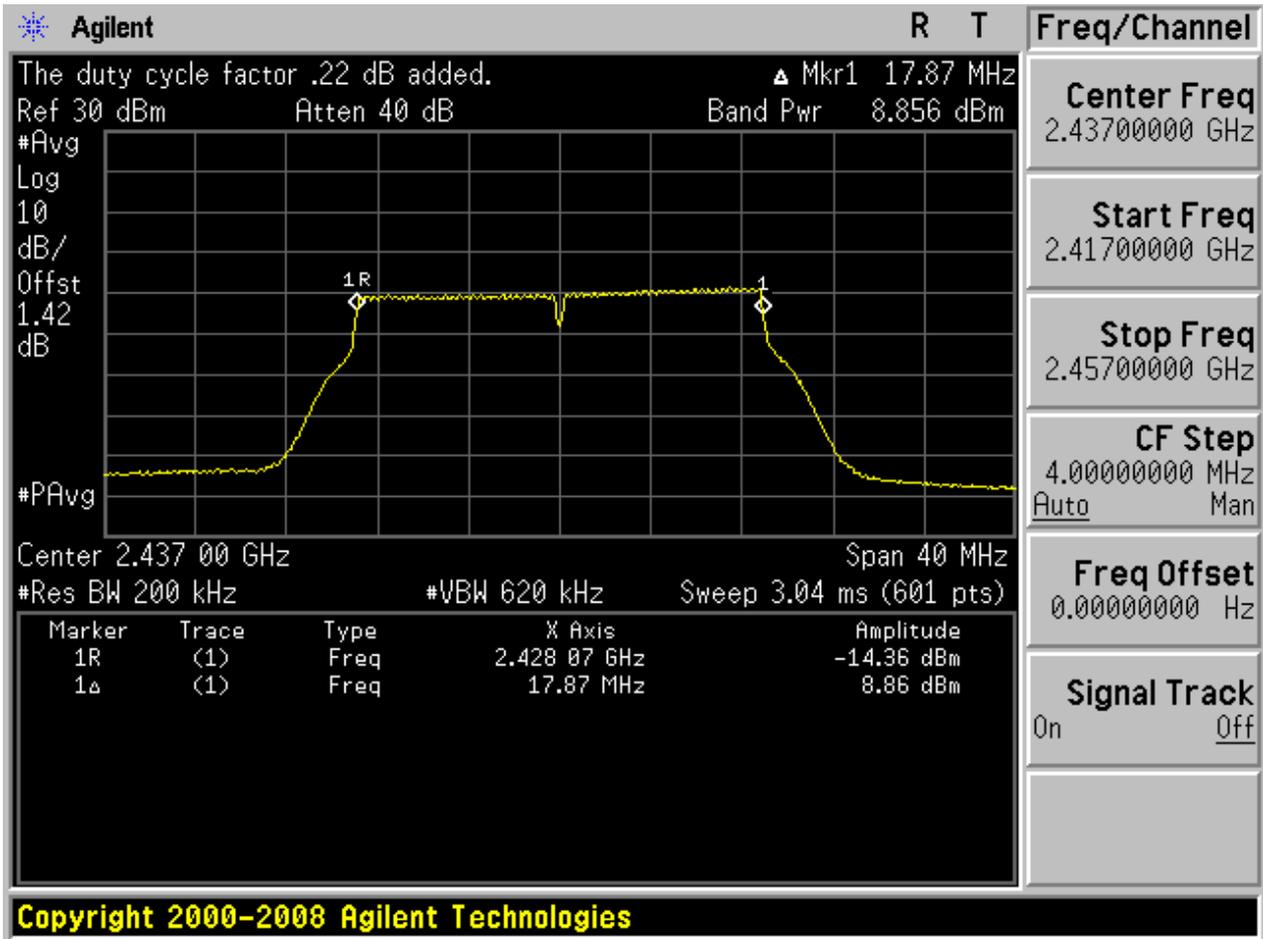
2.15 11N20_M@Ant 1



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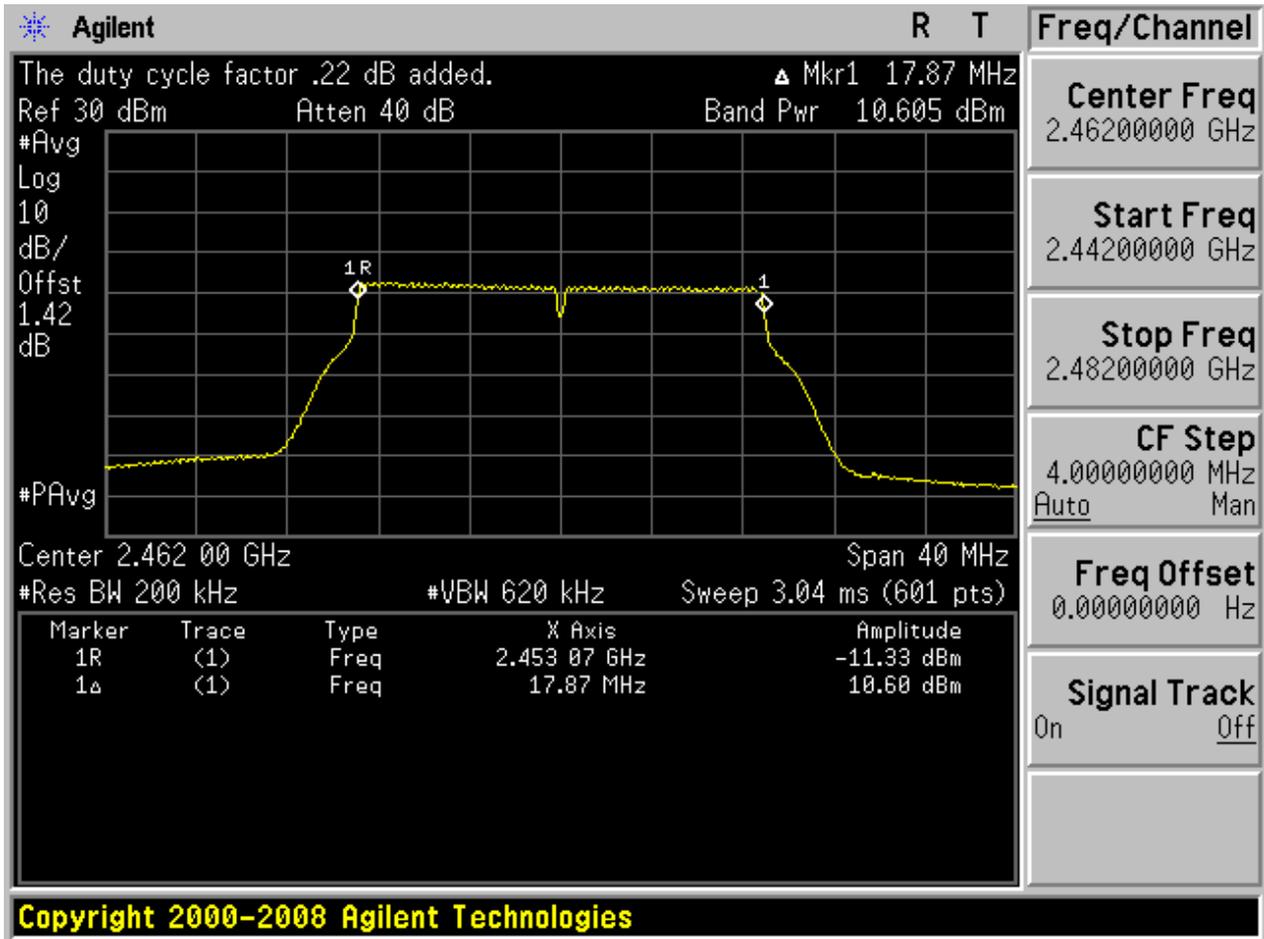


2.16 11N20_M@Ant 2



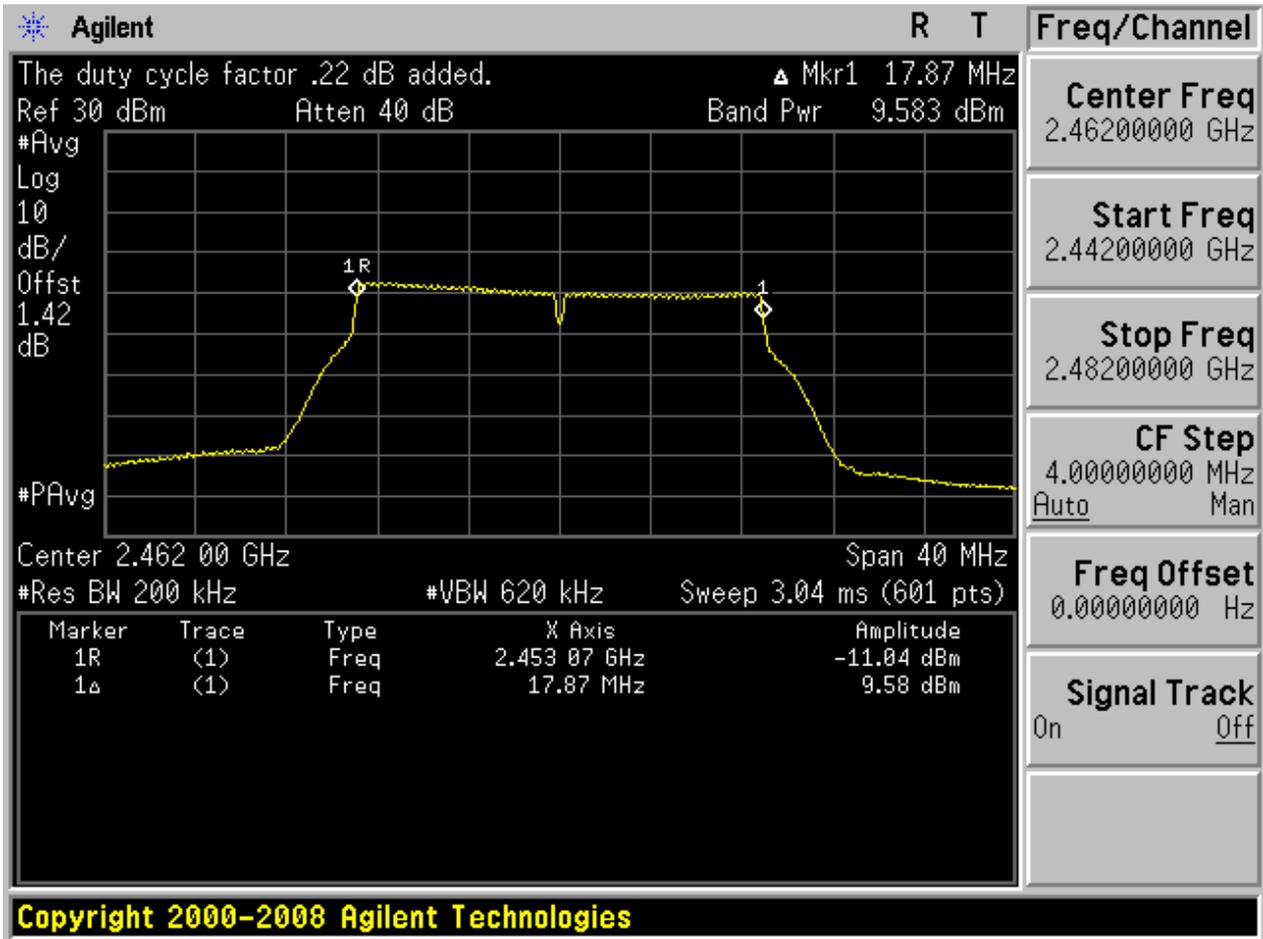


2.17 11N20_H@Ant 1



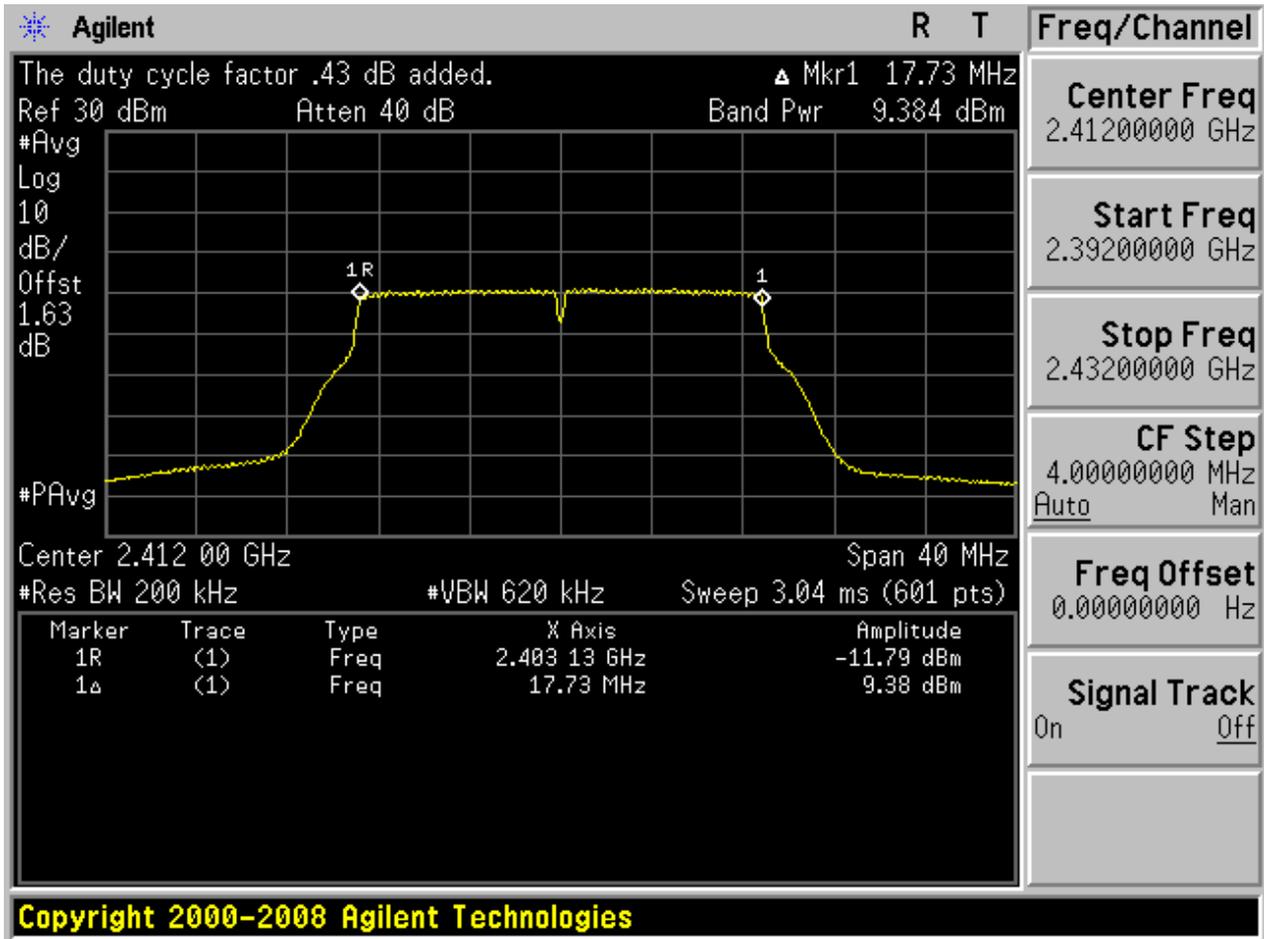


2.18 11N20_H@Ant 2





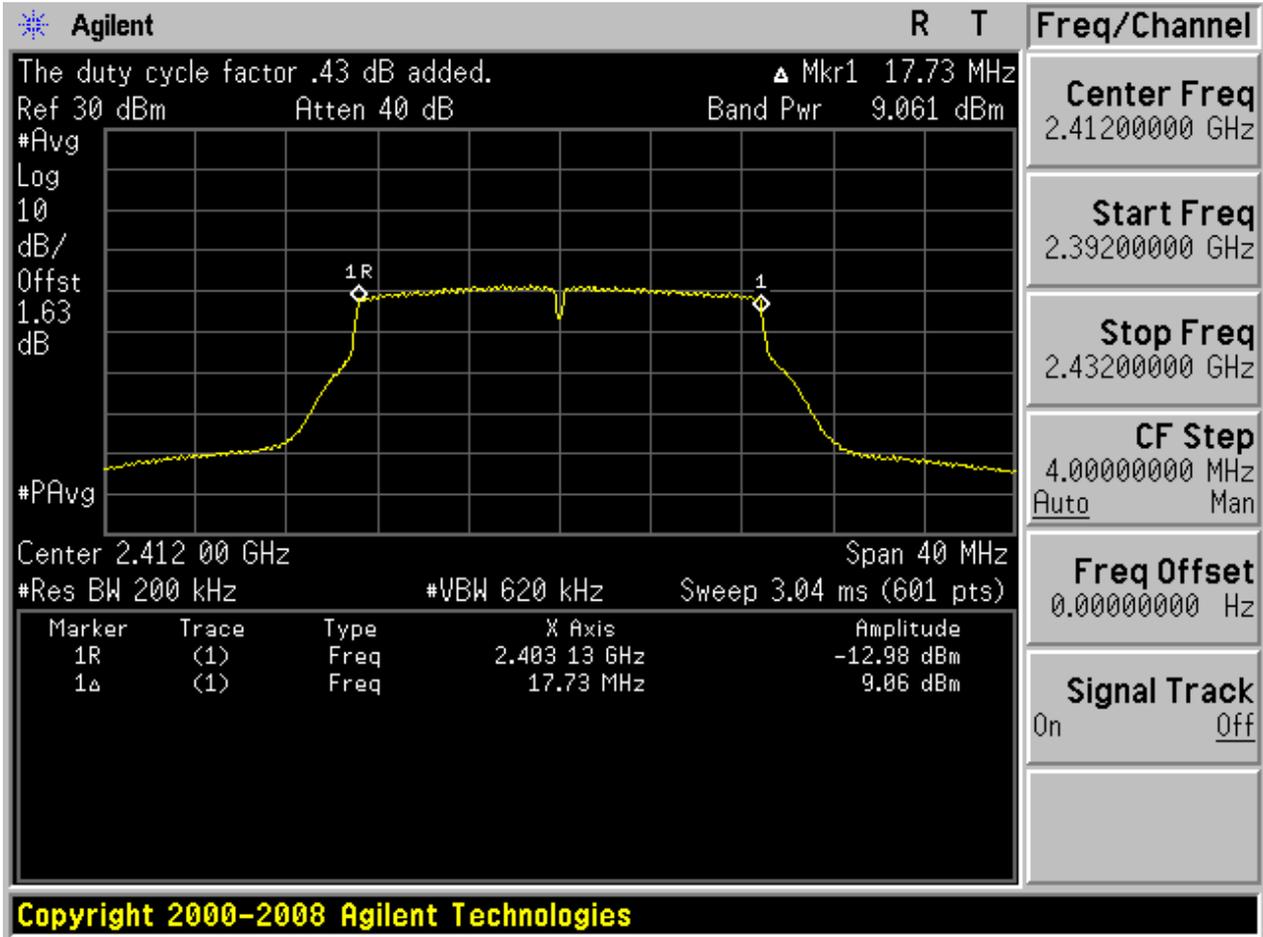
2.19 11N20m_L@Ant 1



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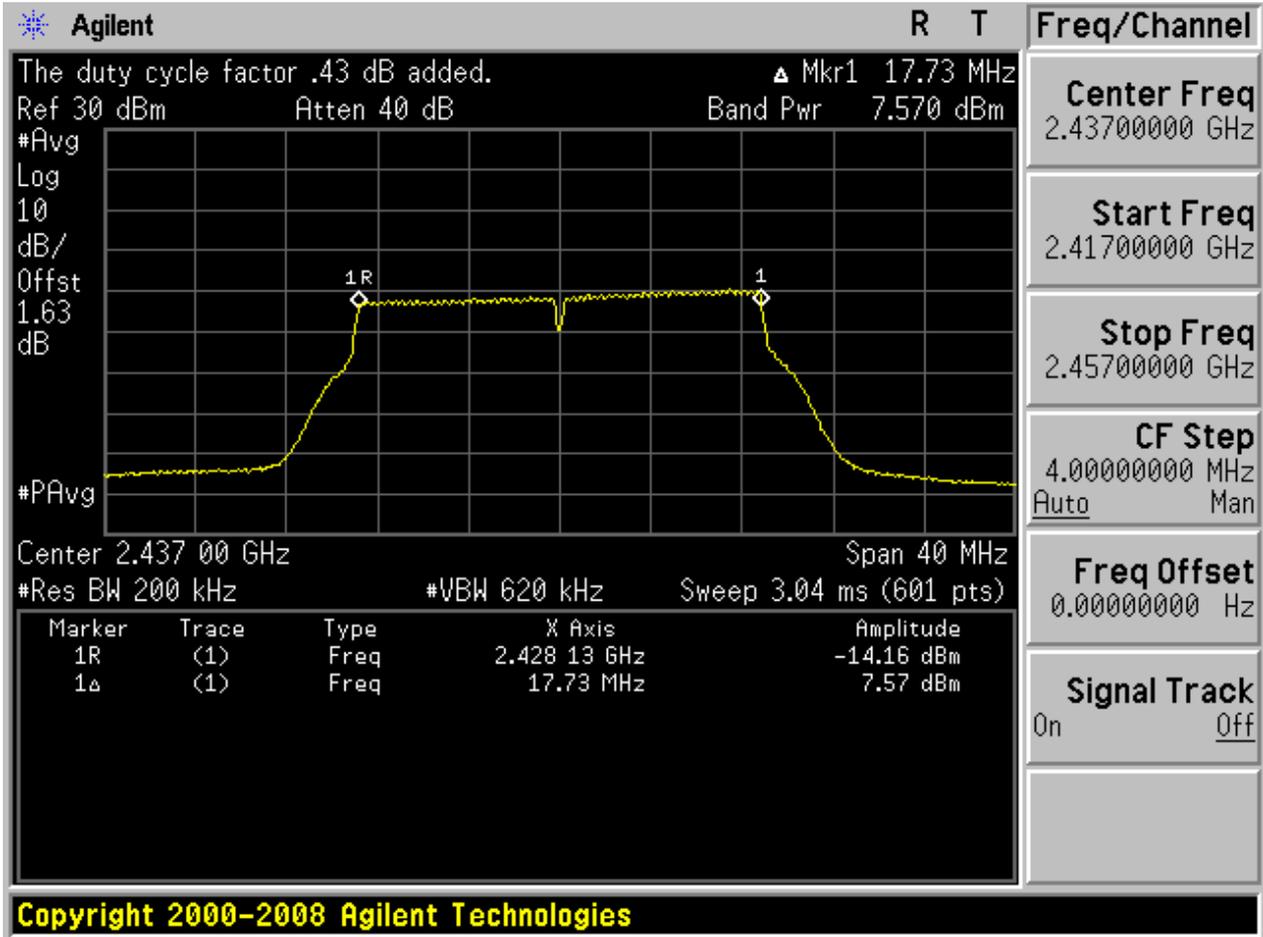
2.20 11N20m_L@Ant 2



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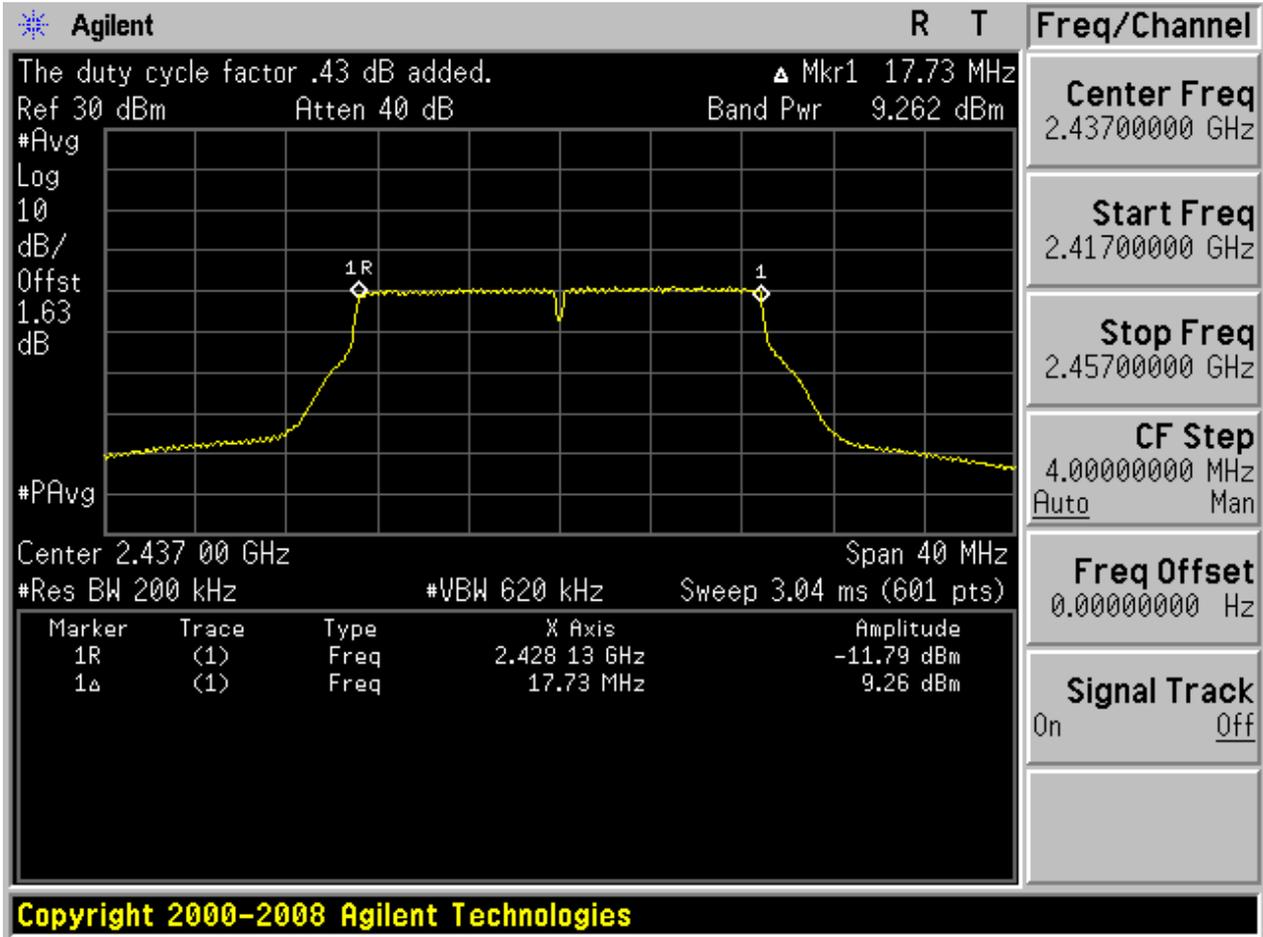
2.22 11N20m_M@Ant 1



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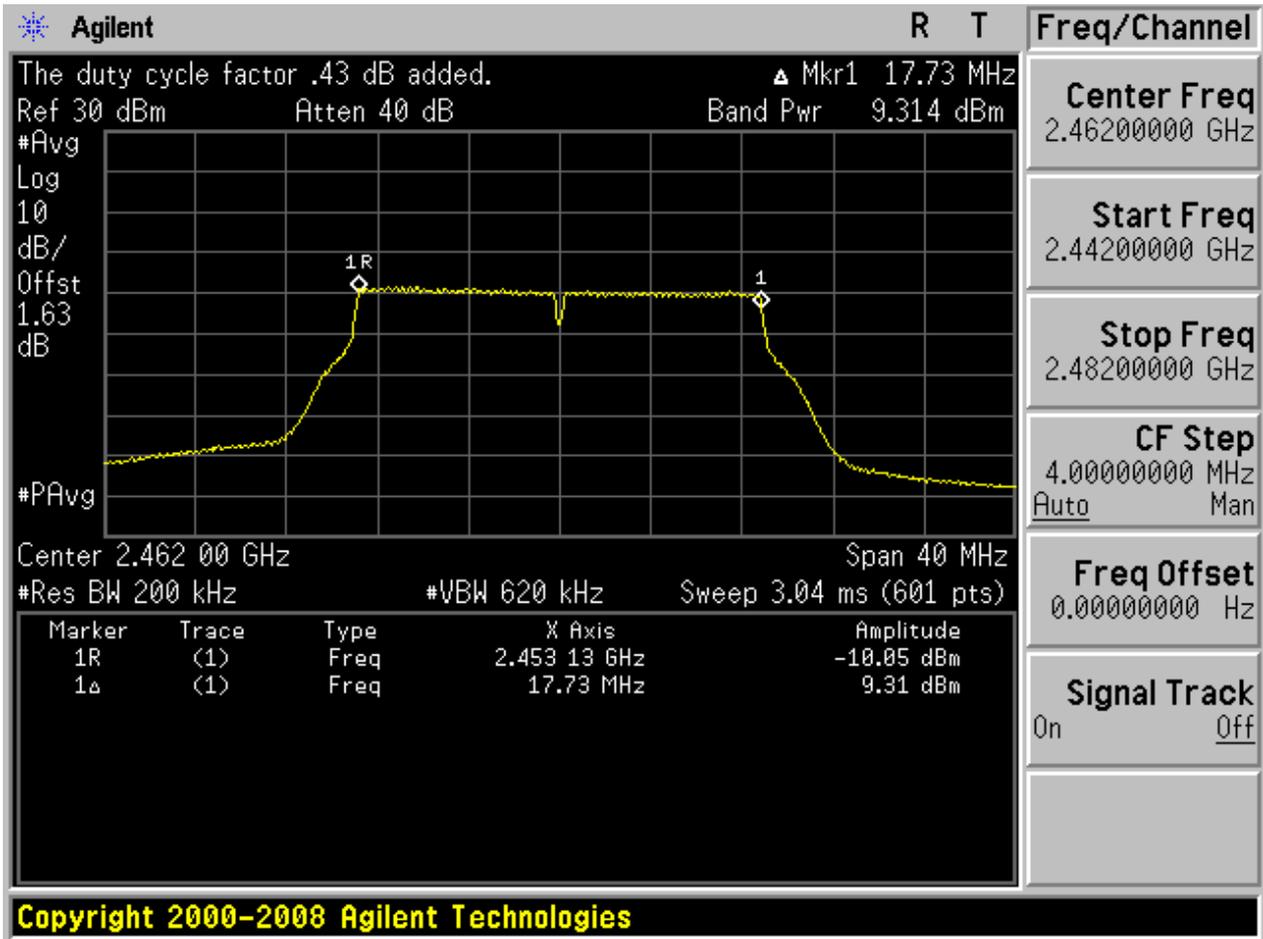
2.21 11N20m_M@Ant 2



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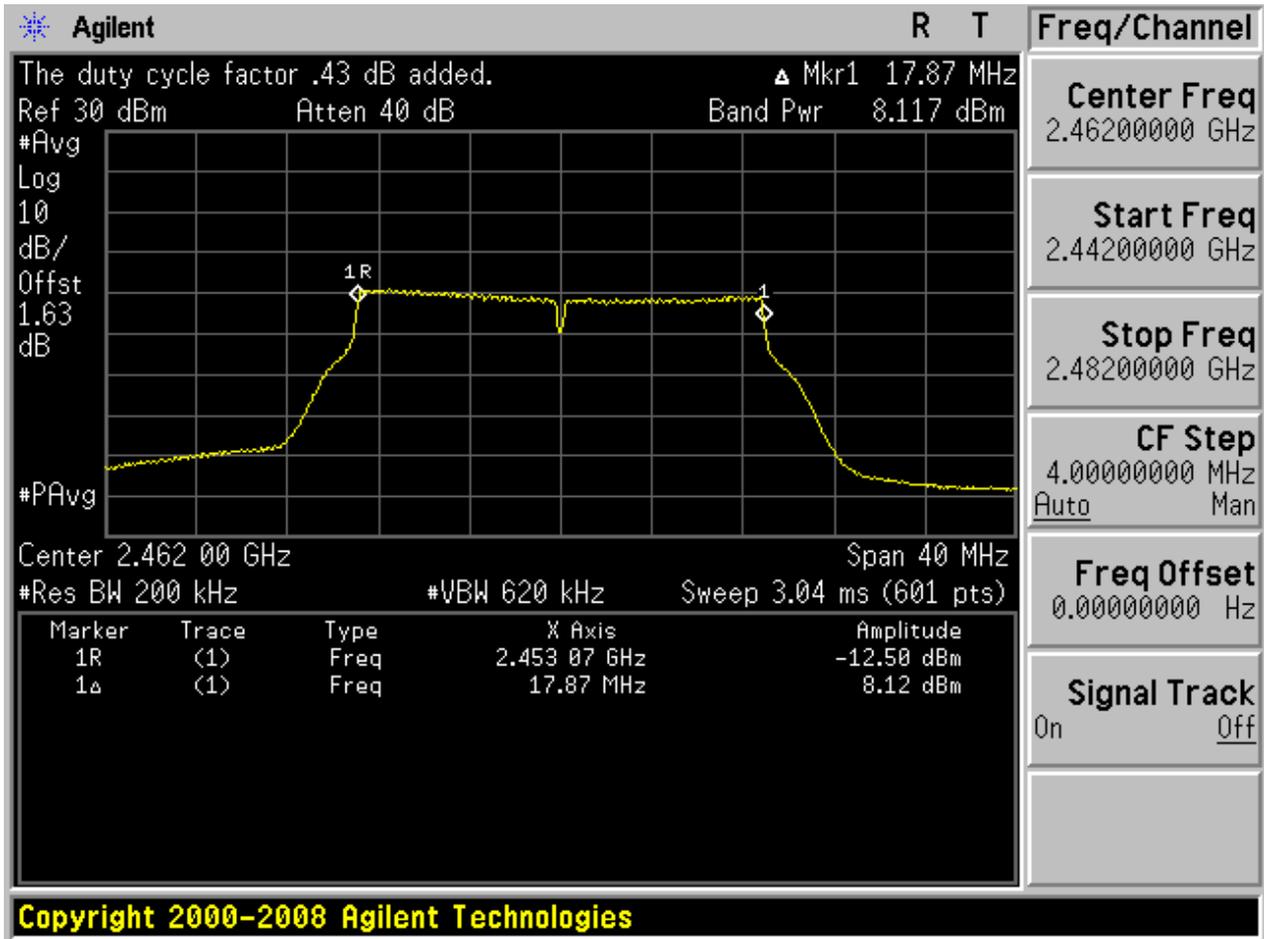


2.23 11N20m_H@Ant 1





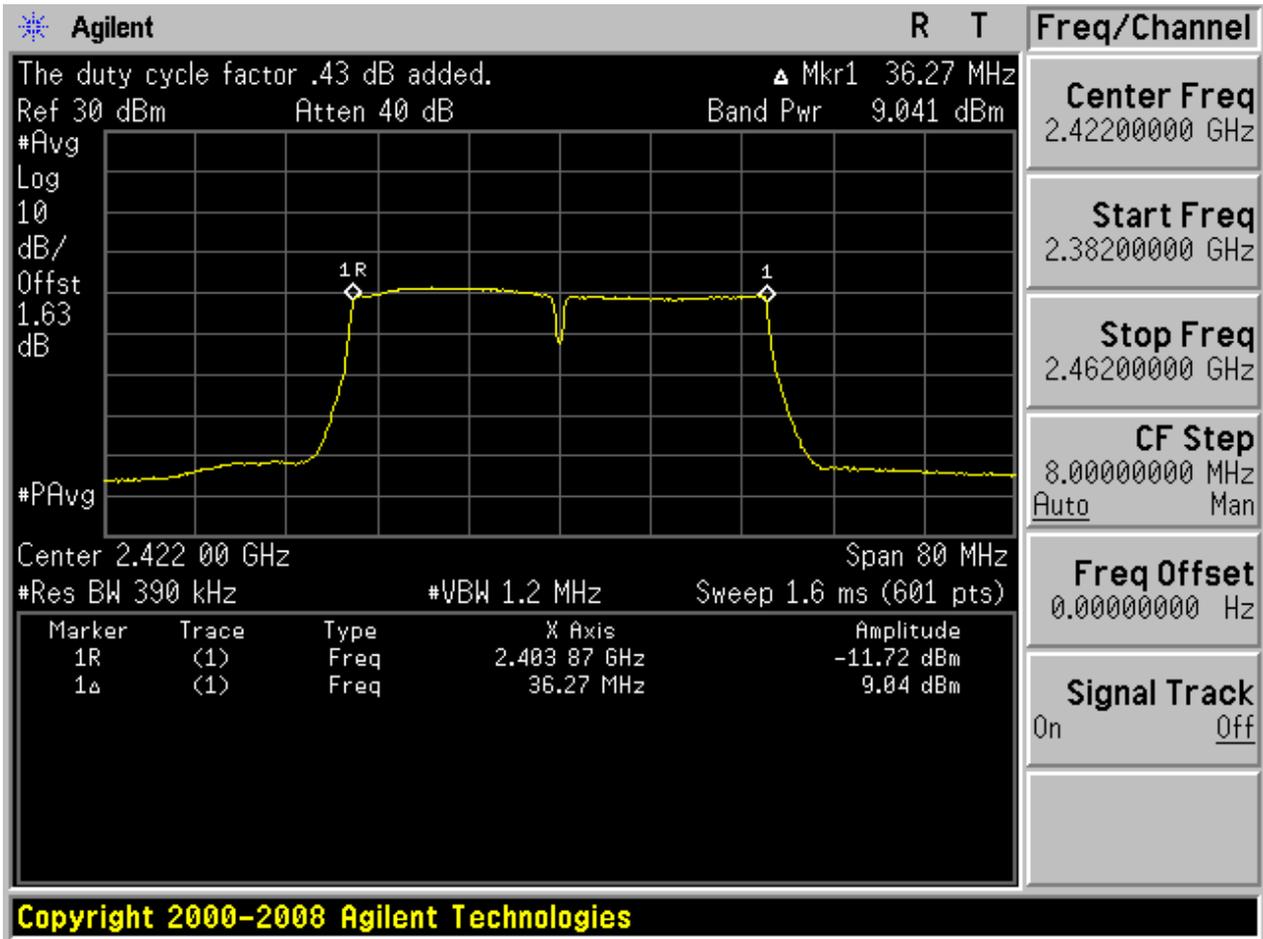
2.24 11N20m_H@Ant 2



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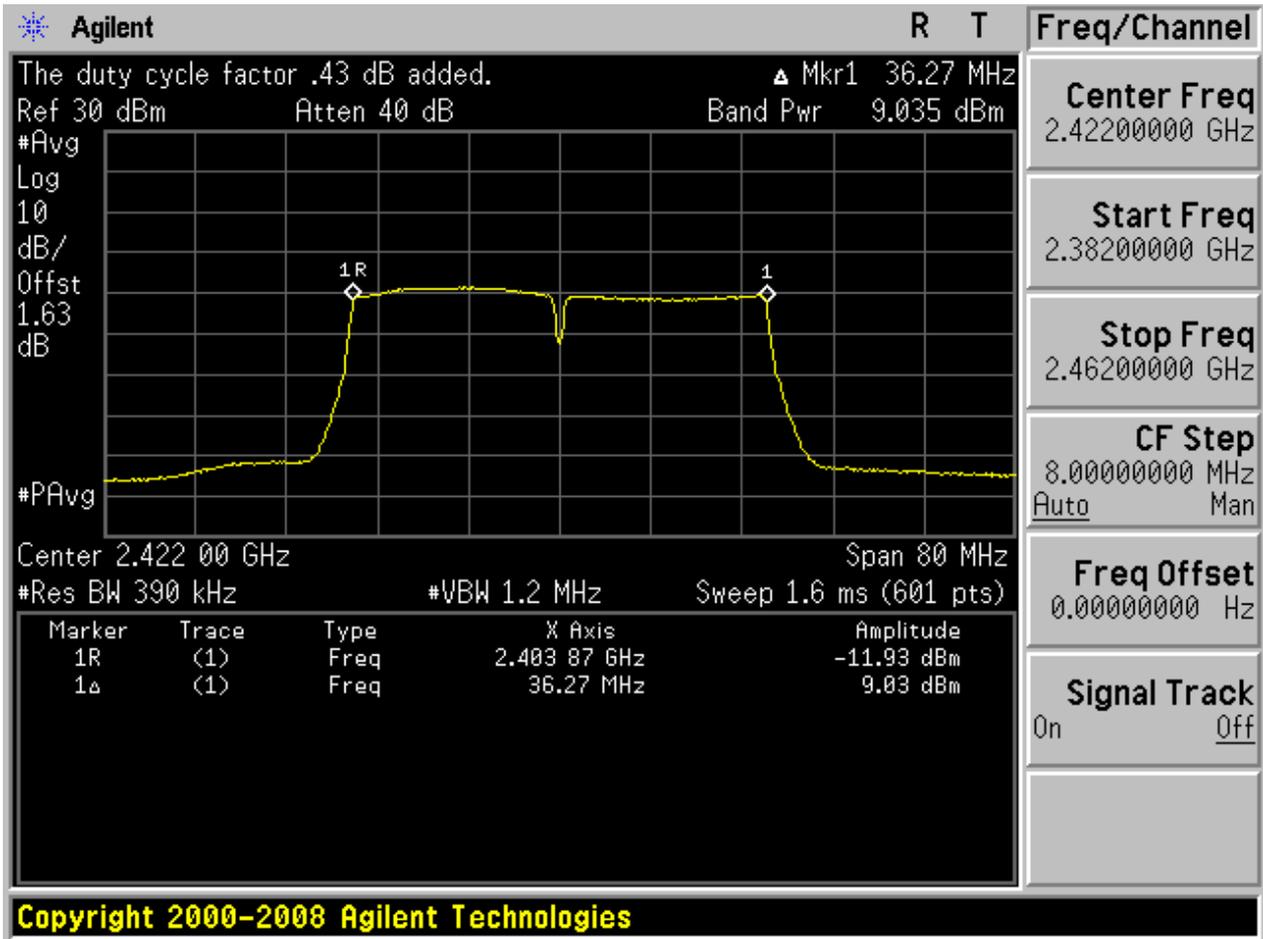


2.25 11N40_L@Ant 1



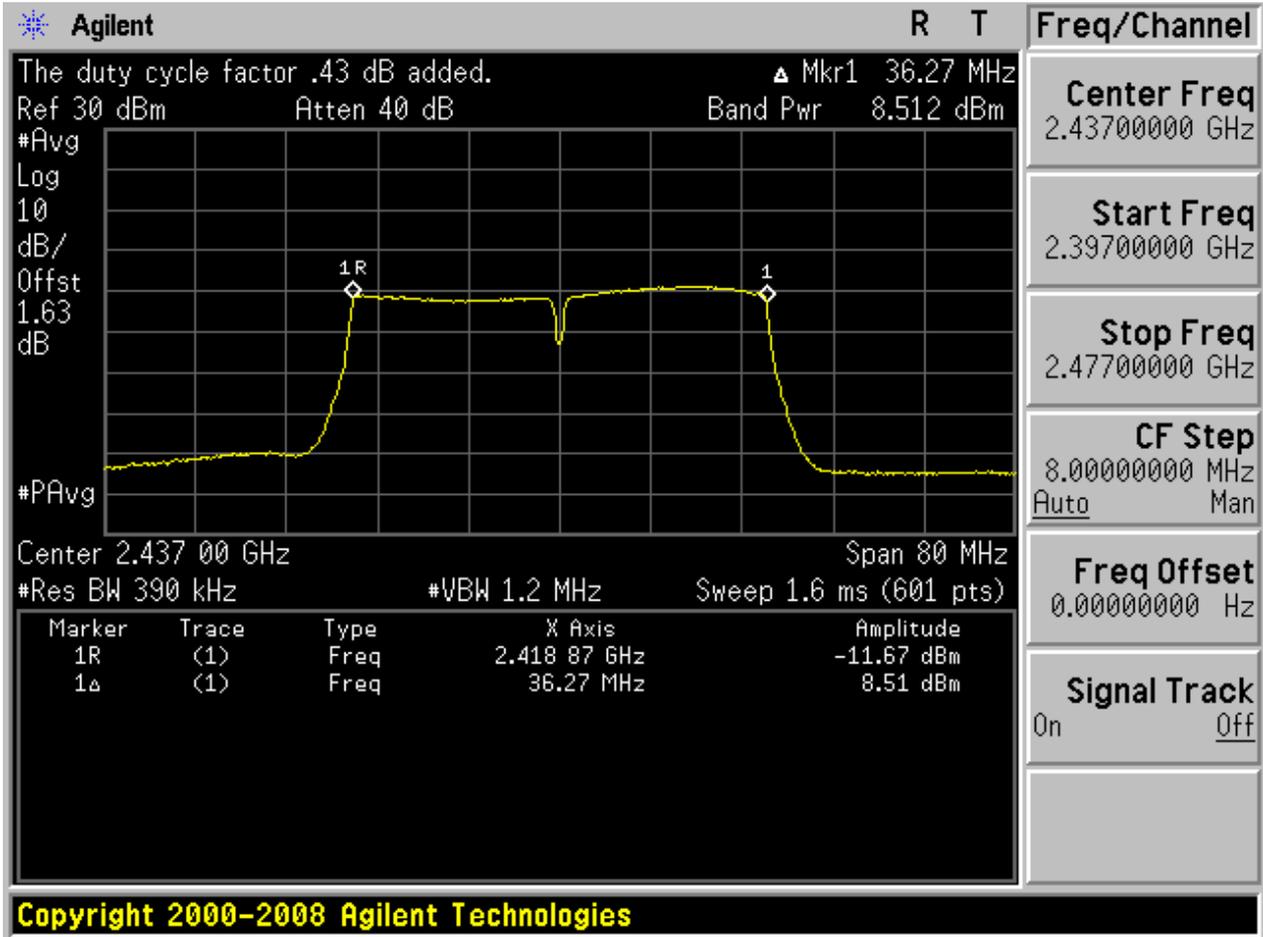


2.26 11N40_L@Ant 2



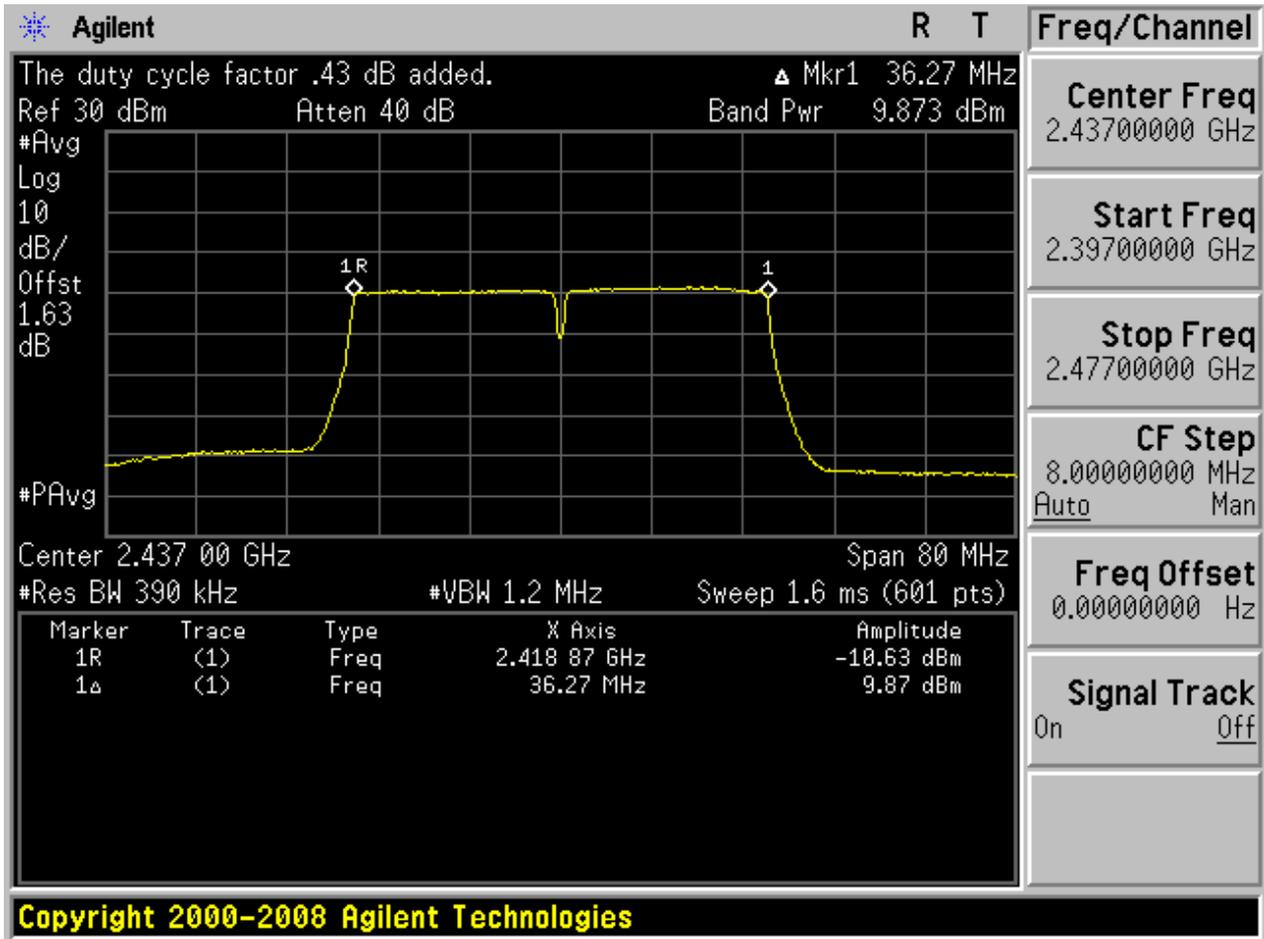


2.28 11N40_M@Ant 1





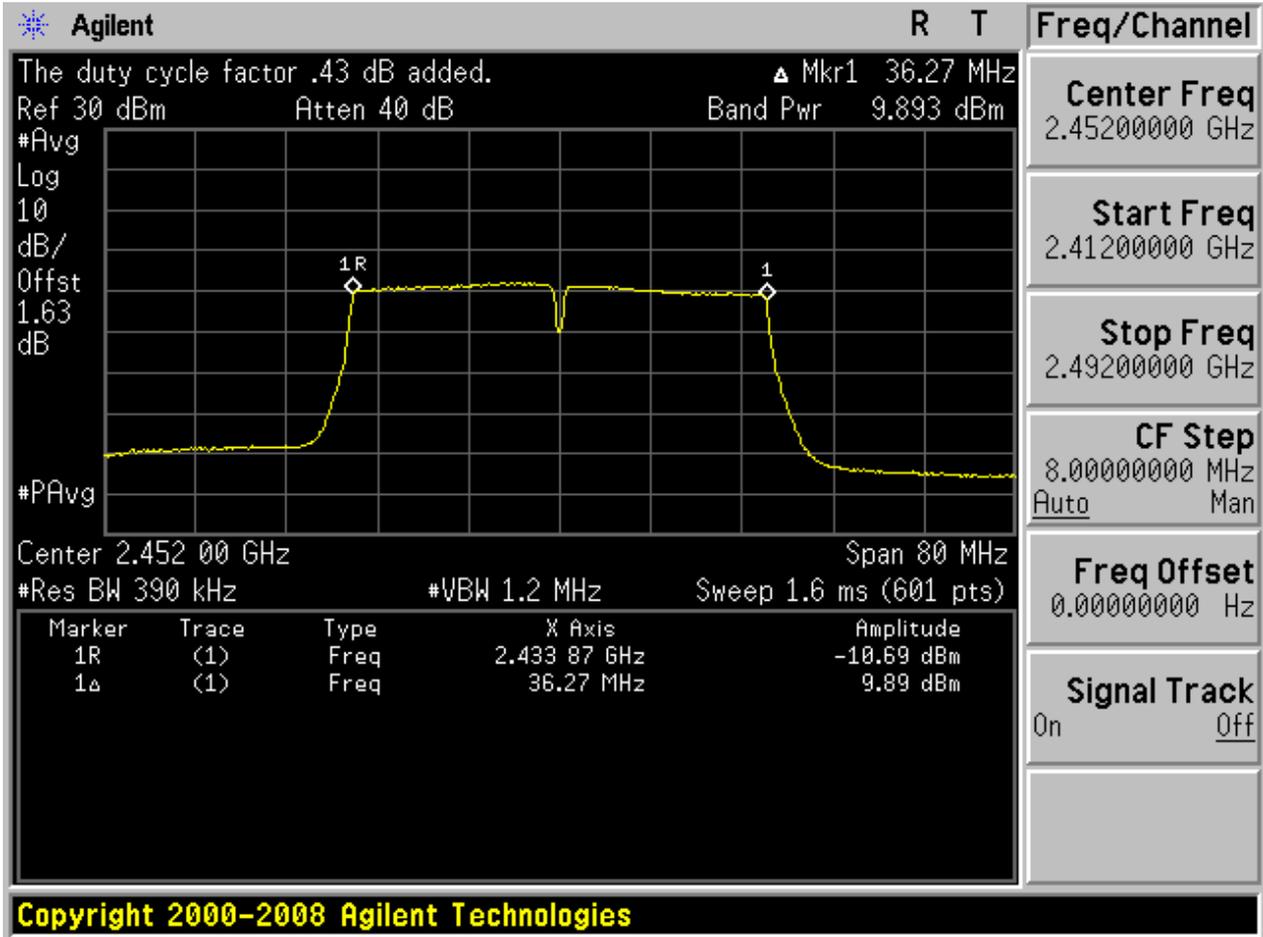
2.27 11N40_M@Ant 2



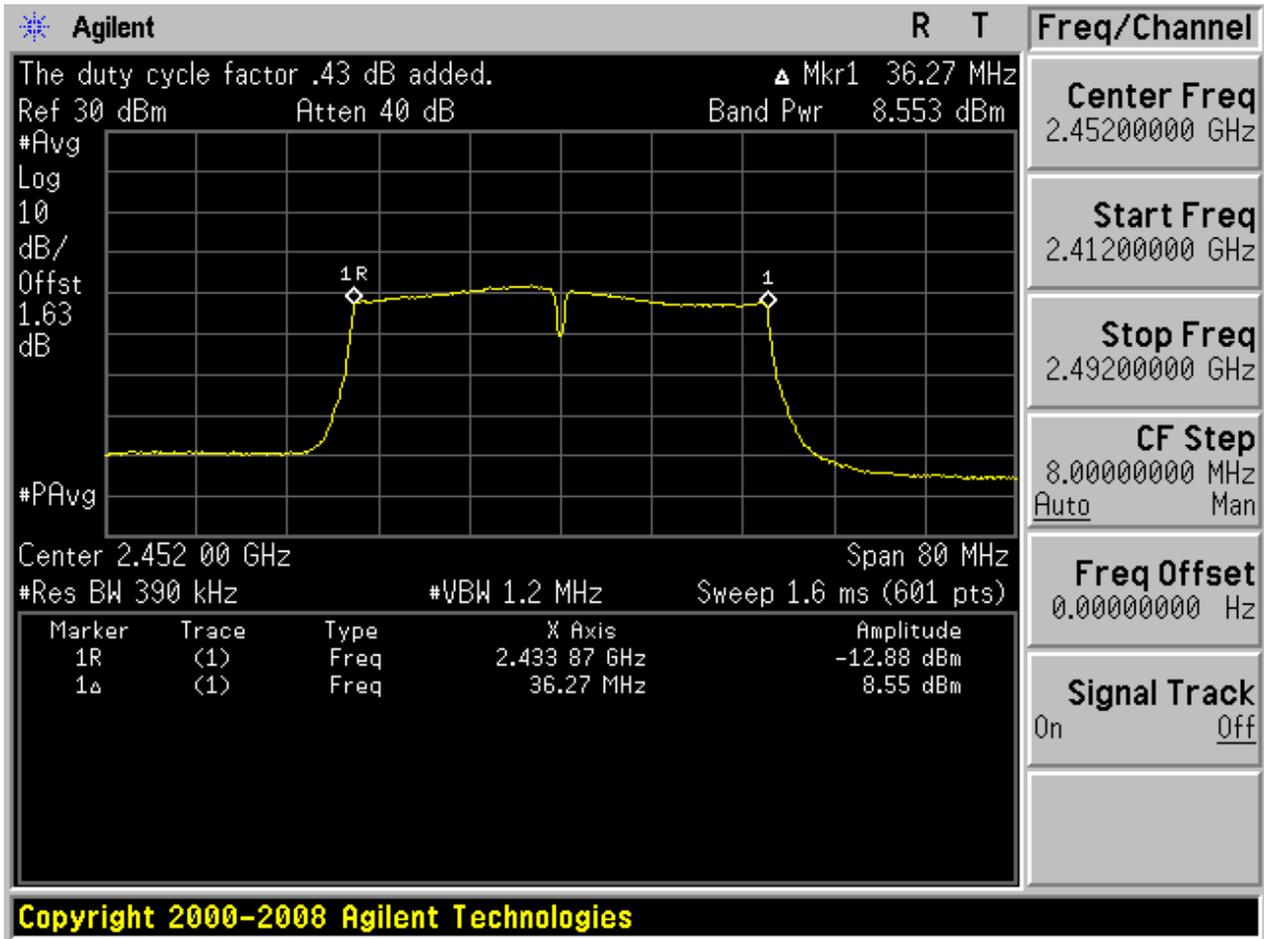
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2.29 11N40_H@Ant 1

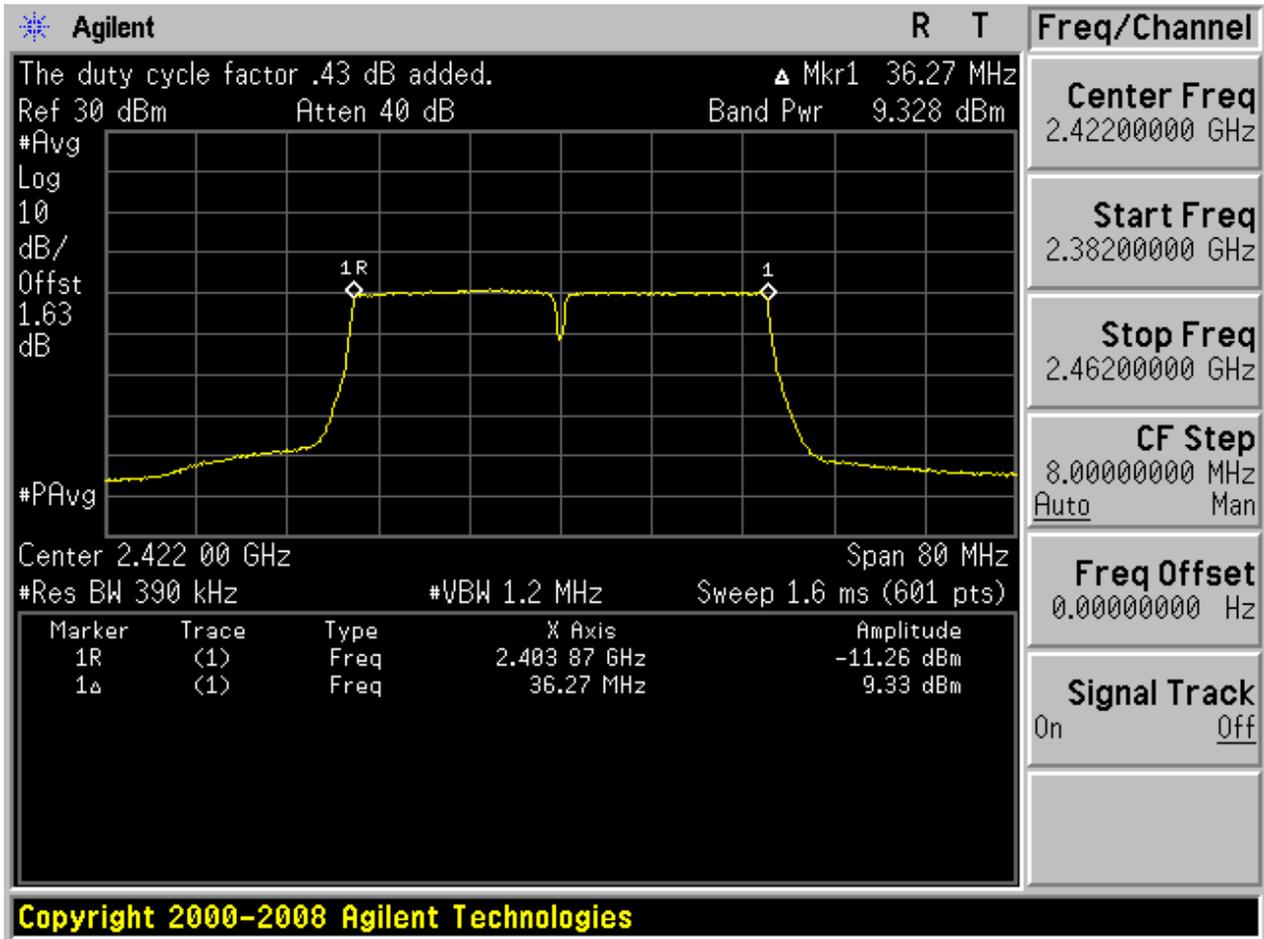


2.30 11N40_H@Ant 2





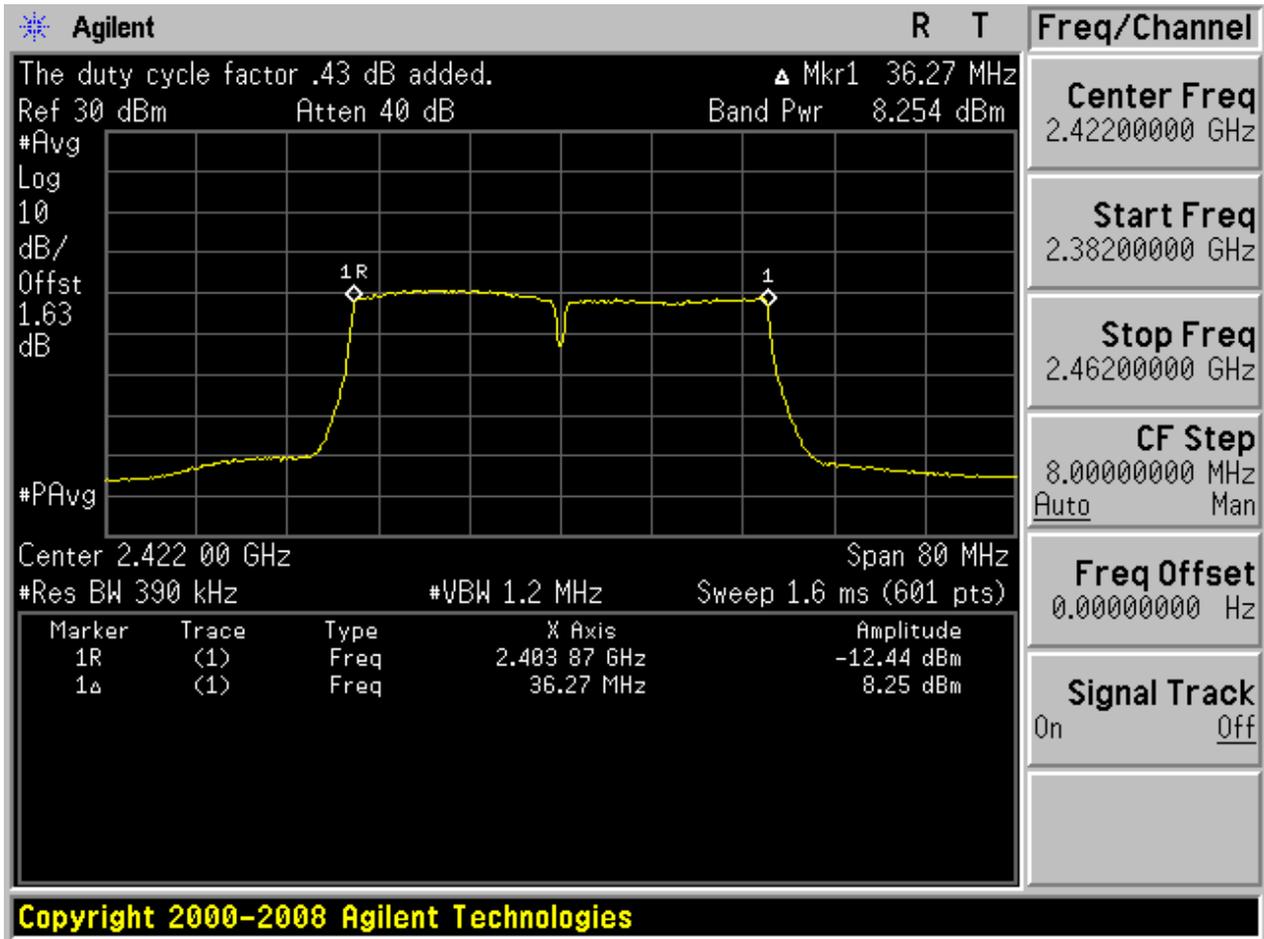
2.31 11N40m_L@Ant 1



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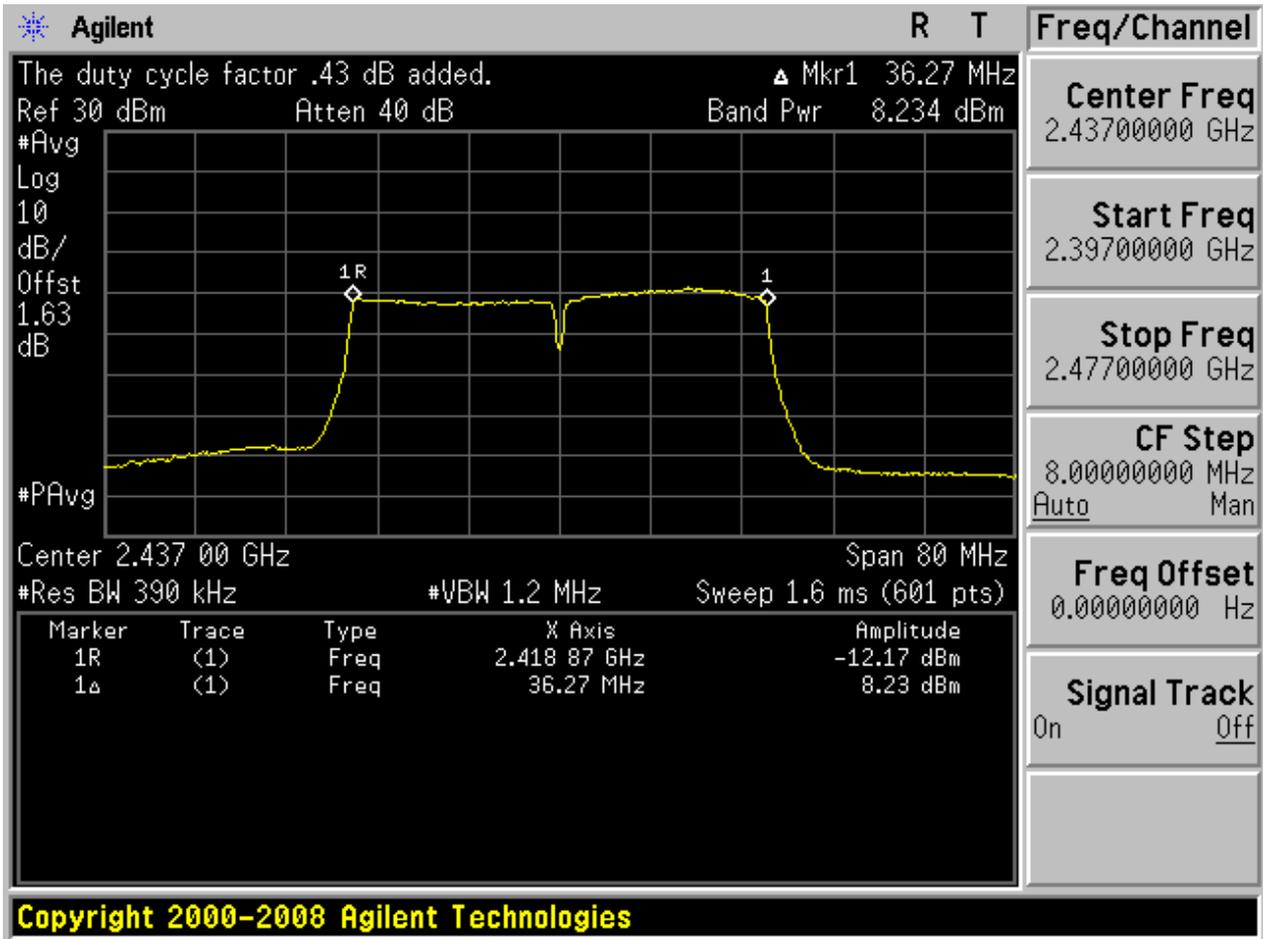
2.32 11N40m_L@Ant 2



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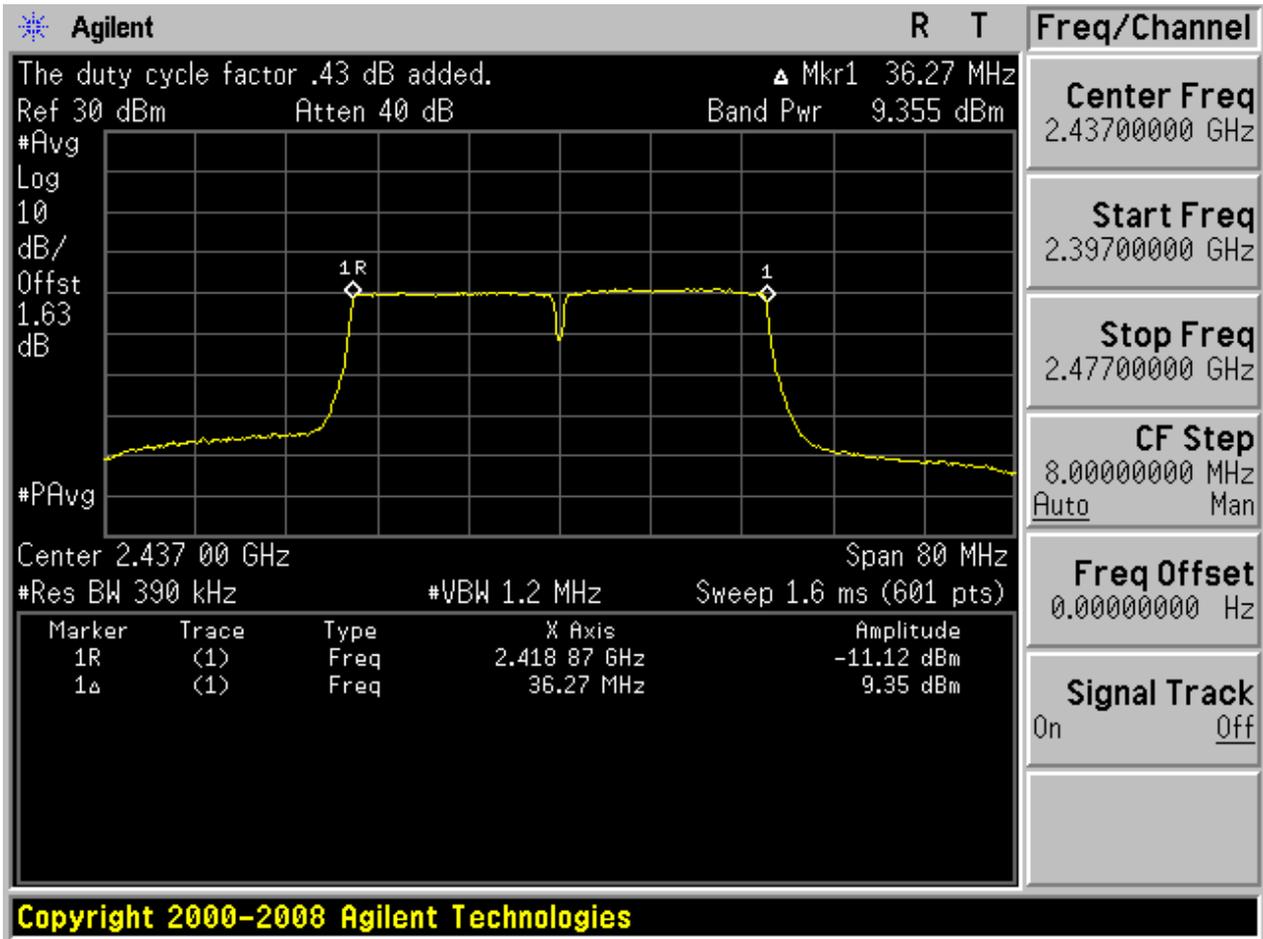
2.34 11N40m_M@Ant 1



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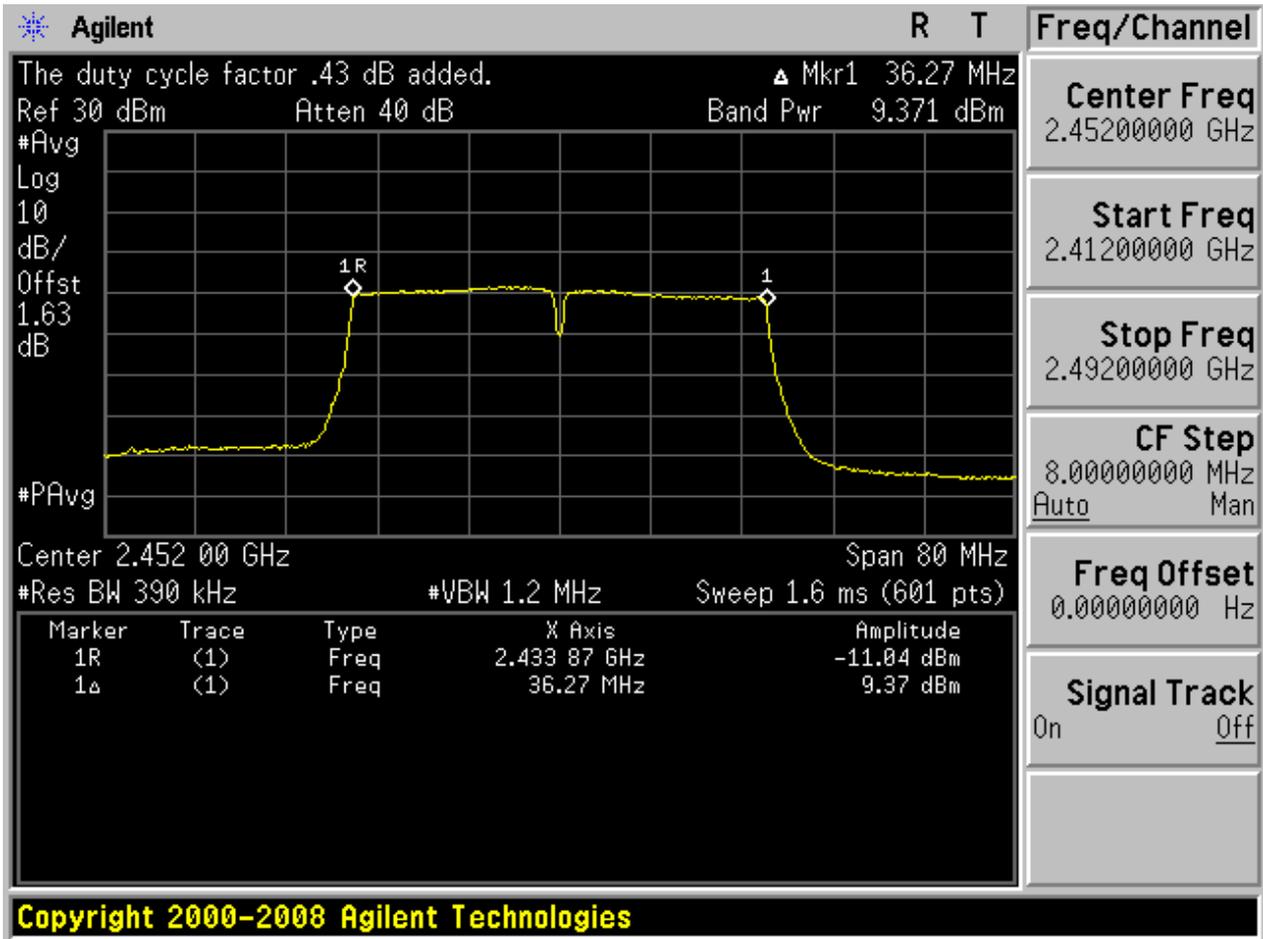


2.33 11N40m_M@Ant 2





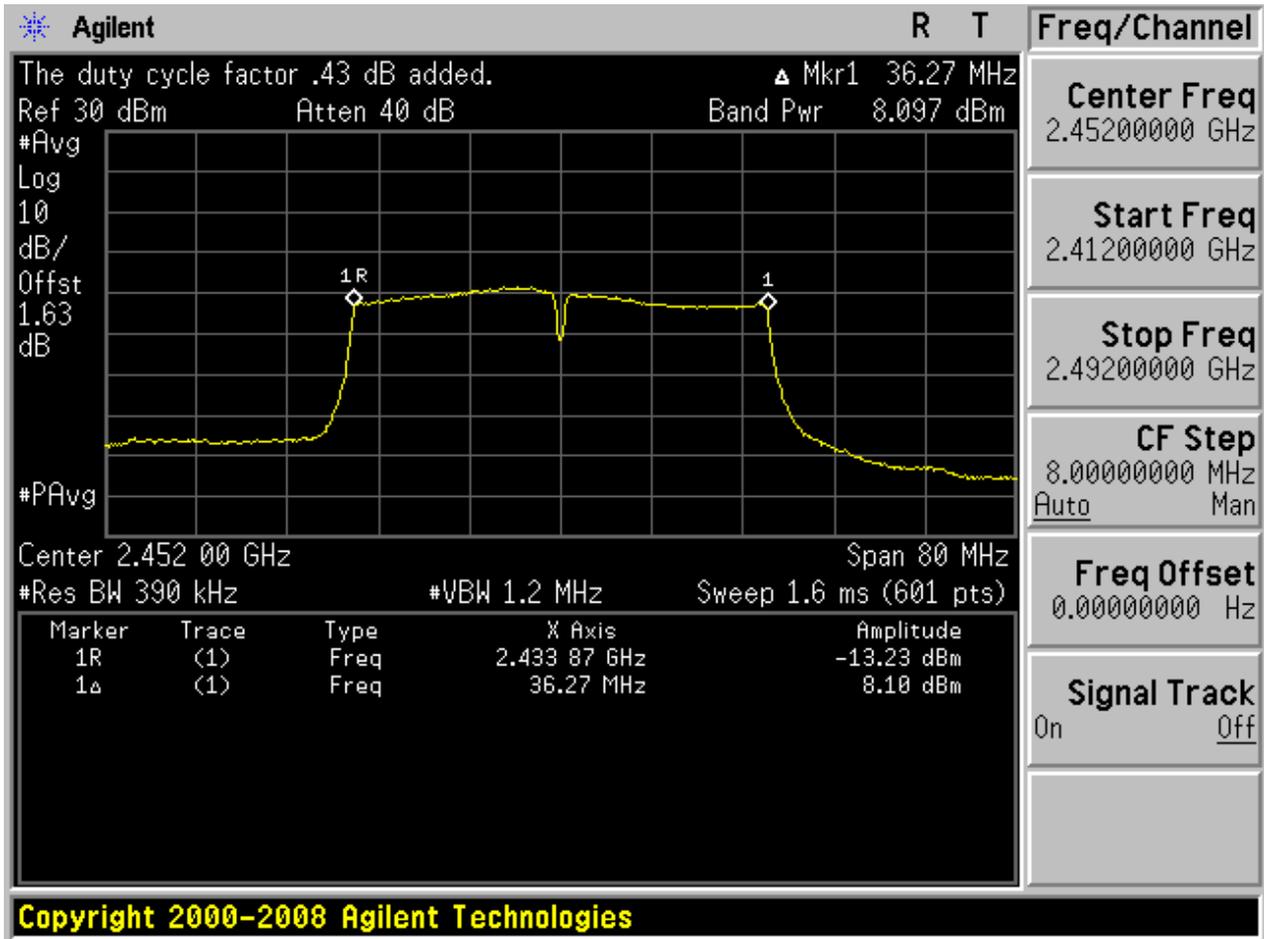
2.35 11N40m_H@Ant 1



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2.36 11N40m_H@Ant 2



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Appendix E: Maximum Power Spectral Density Level

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	PD[MHz]	Verdict
11B	L	2412	Ant 1	-12.93	pass
11B	L	2412	Ant 2	-13.21	pass
11B	M	2437	Ant 1	-15.08	pass
11B	M	2437	Ant 2	-15.18	pass
11B	H	2462	Ant 1	-13.57	pass
11B	H	2462	Ant 2	-14.77	pass
11G	L	2412	Ant 1	-17.47	pass
11G	L	2412	Ant 2	-17.85	pass
11G	M	2437	Ant 1	-18.06	pass
11G	M	2437	Ant 2	-19.12	pass
11G	H	2462	Ant 1	-17.96	pass
11G	H	2462	Ant 2	-17.80	pass
11N20	L	2412	Ant 1	-19.28	pass
11N20	L	2412	Ant 2	-19.55	pass
11N20	M	2437	Ant 1	-19.39	pass
11N20	M	2437	Ant 2	-20.71	pass
11N20	H	2462	Ant 1	-19.55	pass
11N20	H	2462	Ant 2	-19.16	pass
11N20m	L	2412	Ant 1	-20.65	pass
11N20m	L	2412	Ant 2	-20.34	pass
11N20m	L	2412	sum	-17.48	pass
11N20m	M	2437	Ant 1	-21.56	pass
11N20m	M	2437	Ant 2	-20.63	pass
11N20m	M	2437	sum	-18.06	pass
11N20m	H	2462	Ant 1	-20.50	pass
11N20m	H	2462	Ant 2	-20.76	pass
11N20m	H	2462	sum	-17.62	pass
11N40	L	2422	Ant 1	-23.71	pass
11N40	L	2422	Ant 2	-23.63	pass
11N40	M	2437	Ant 1	-23.55	pass
11N40	M	2437	Ant 2	-23.42	pass
11N40	H	2452	Ant 1	-22.88	pass
11N40	H	2452	Ant 2	-23.08	pass
11N40m	L	2422	Ant 1	-23.94	pass
11N40m	L	2422	Ant 2	-23.72	pass
11N40m	L	2422	sum	-20.82	pass

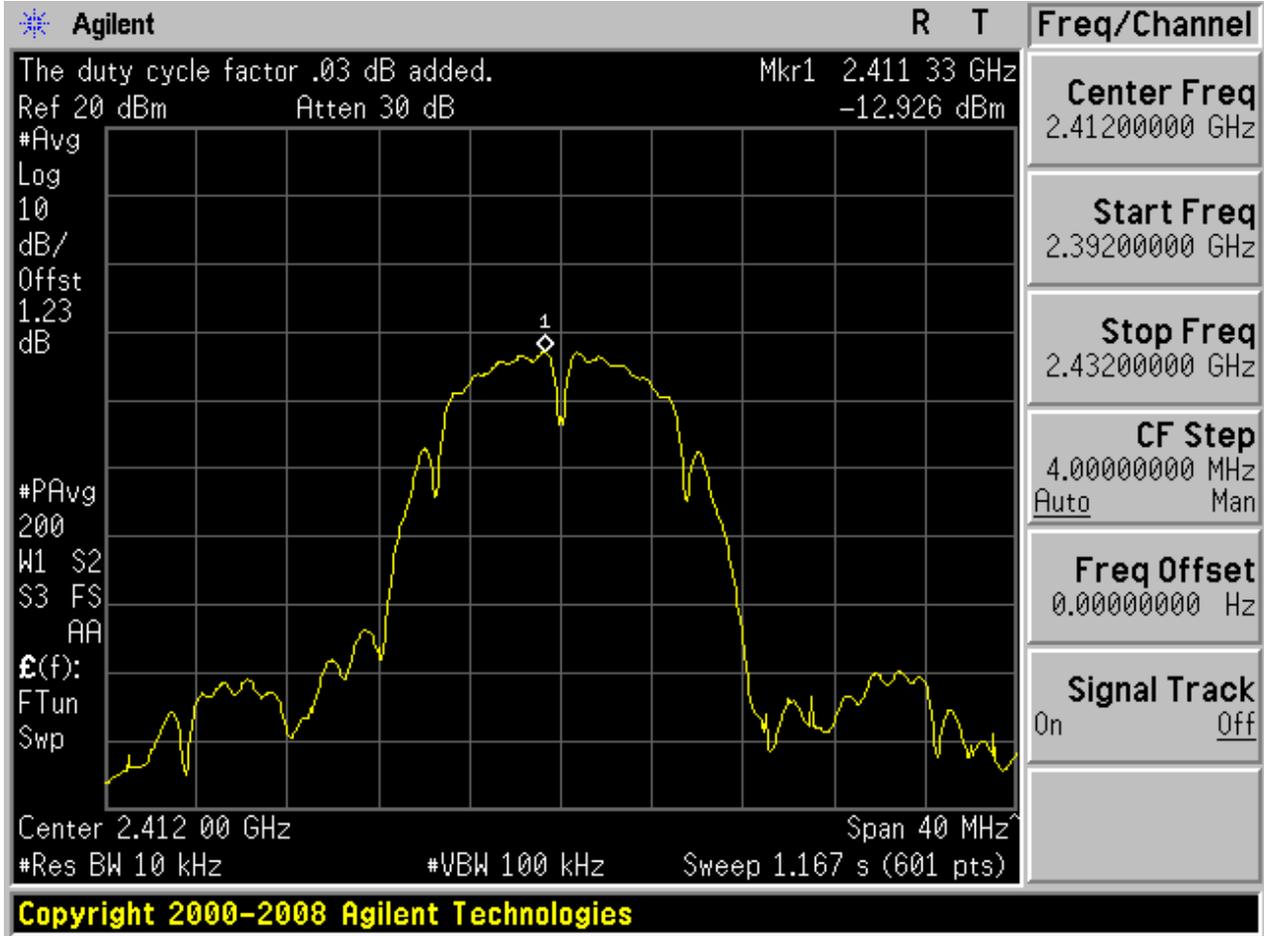


Test Mode	Test Channel	Frequency[MHz]	Ant	PD[MHz]	Verdict
11N40m	M	2437	Ant 1	-23.57	pass
11N40m	M	2437	Ant 2	-23.58	pass
11N40m	M	2437	sum	-20.56	pass
11N40m	H	2452	Ant 1	-23.22	pass
11N40m	H	2452	Ant 2	-22.97	pass
11N40m	H	2452	sum	-20.08	pass



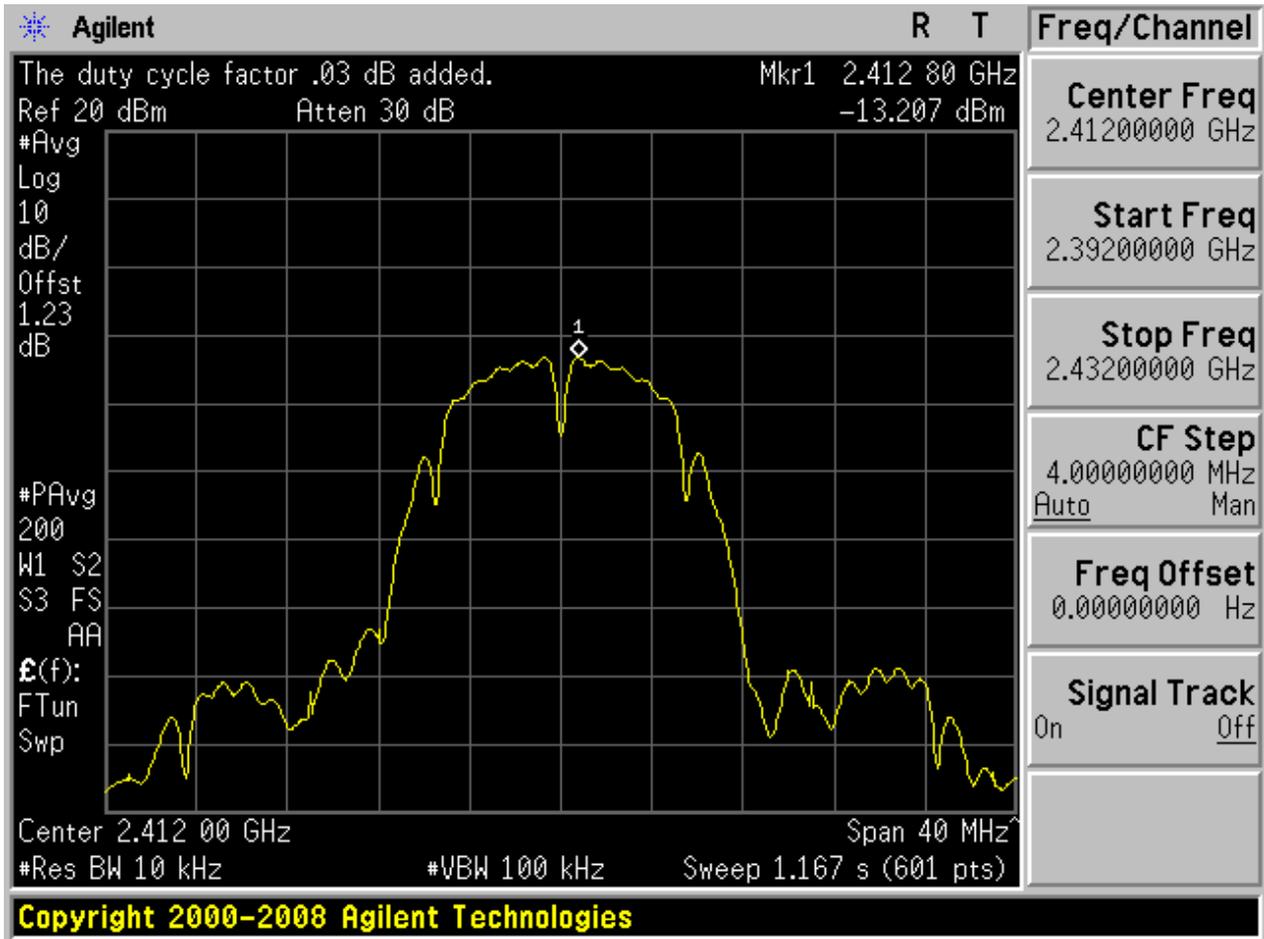
Part II - Test Plots

2.1 11B_L@Ant 1



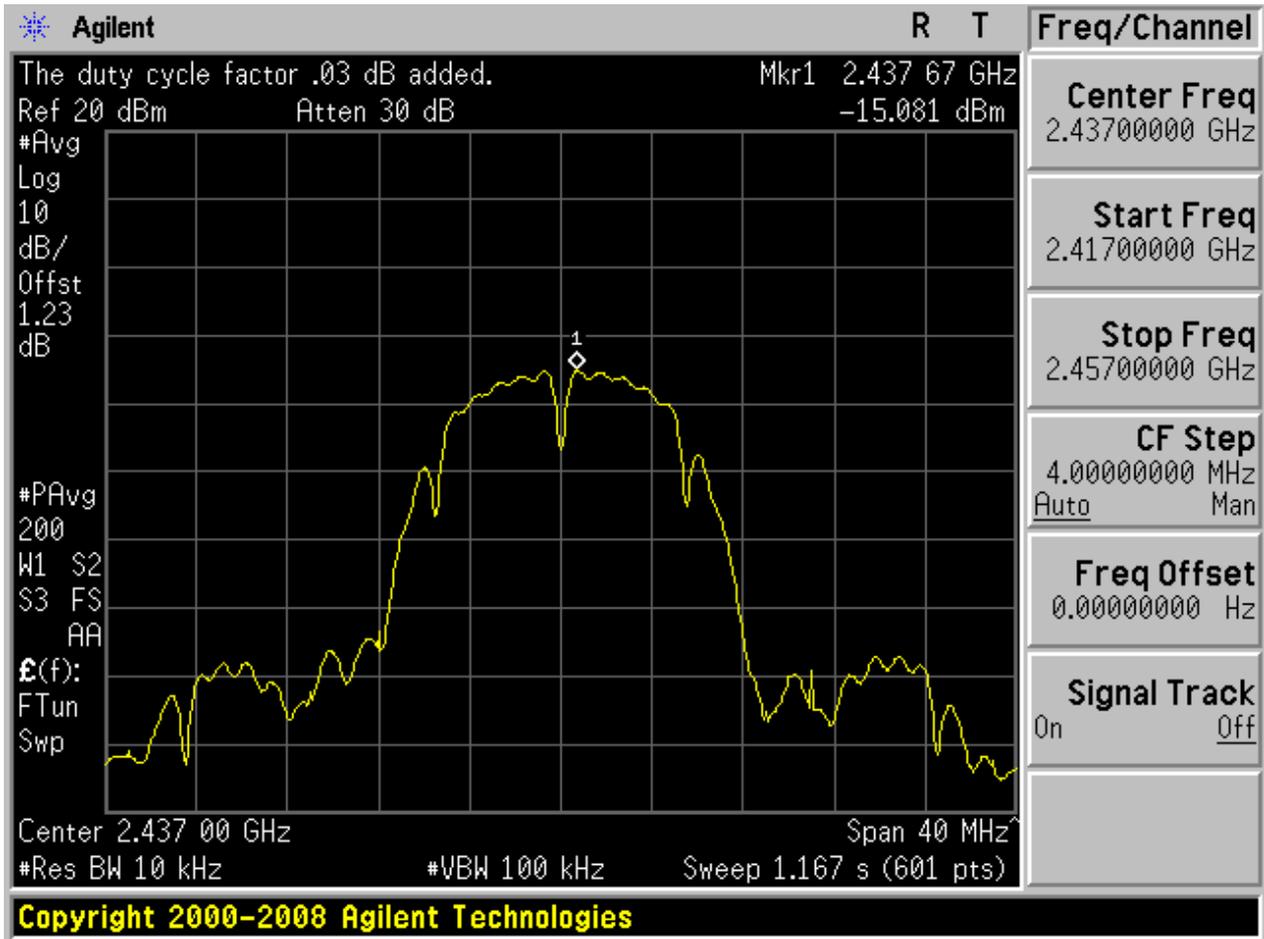


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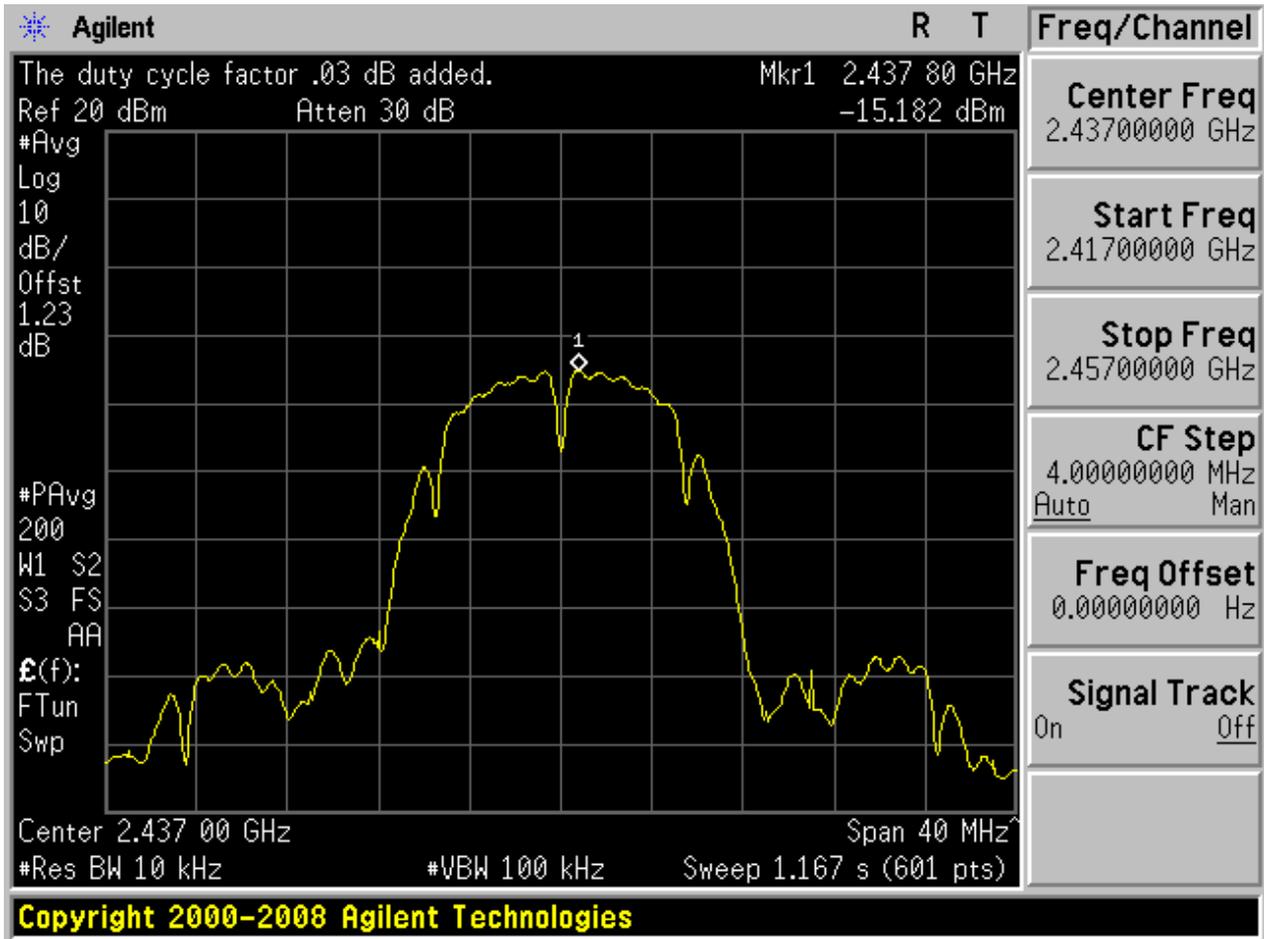


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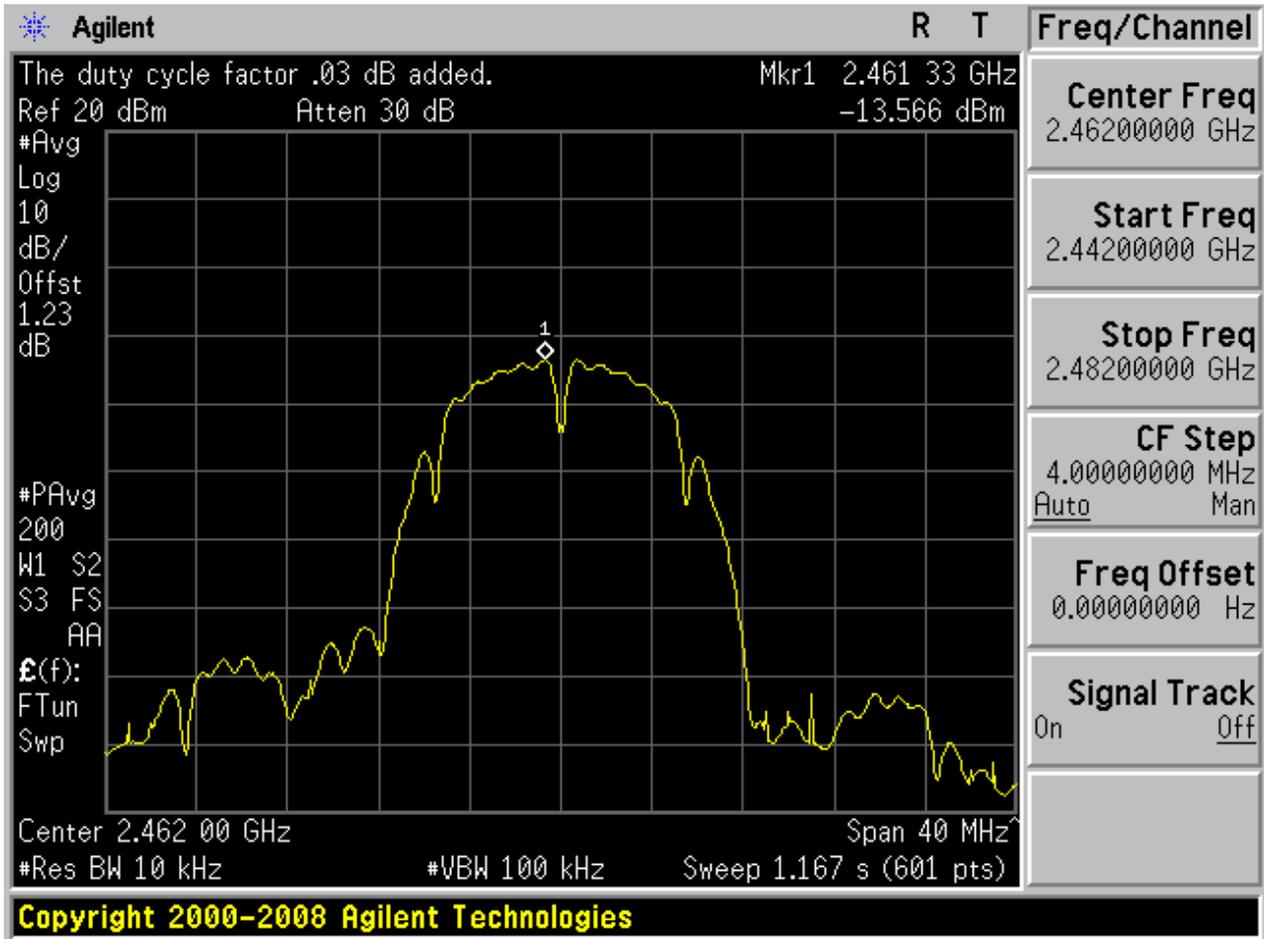


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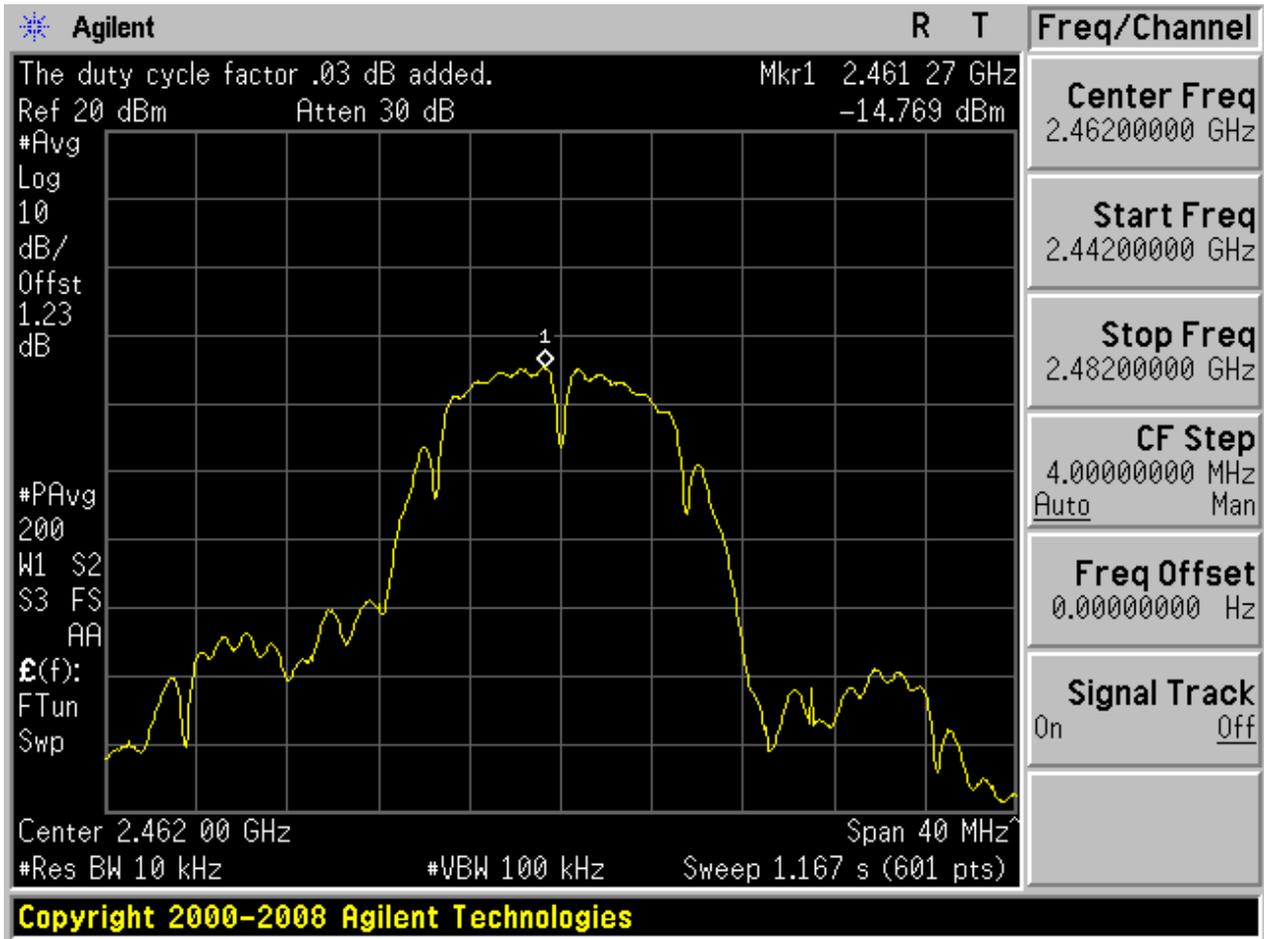




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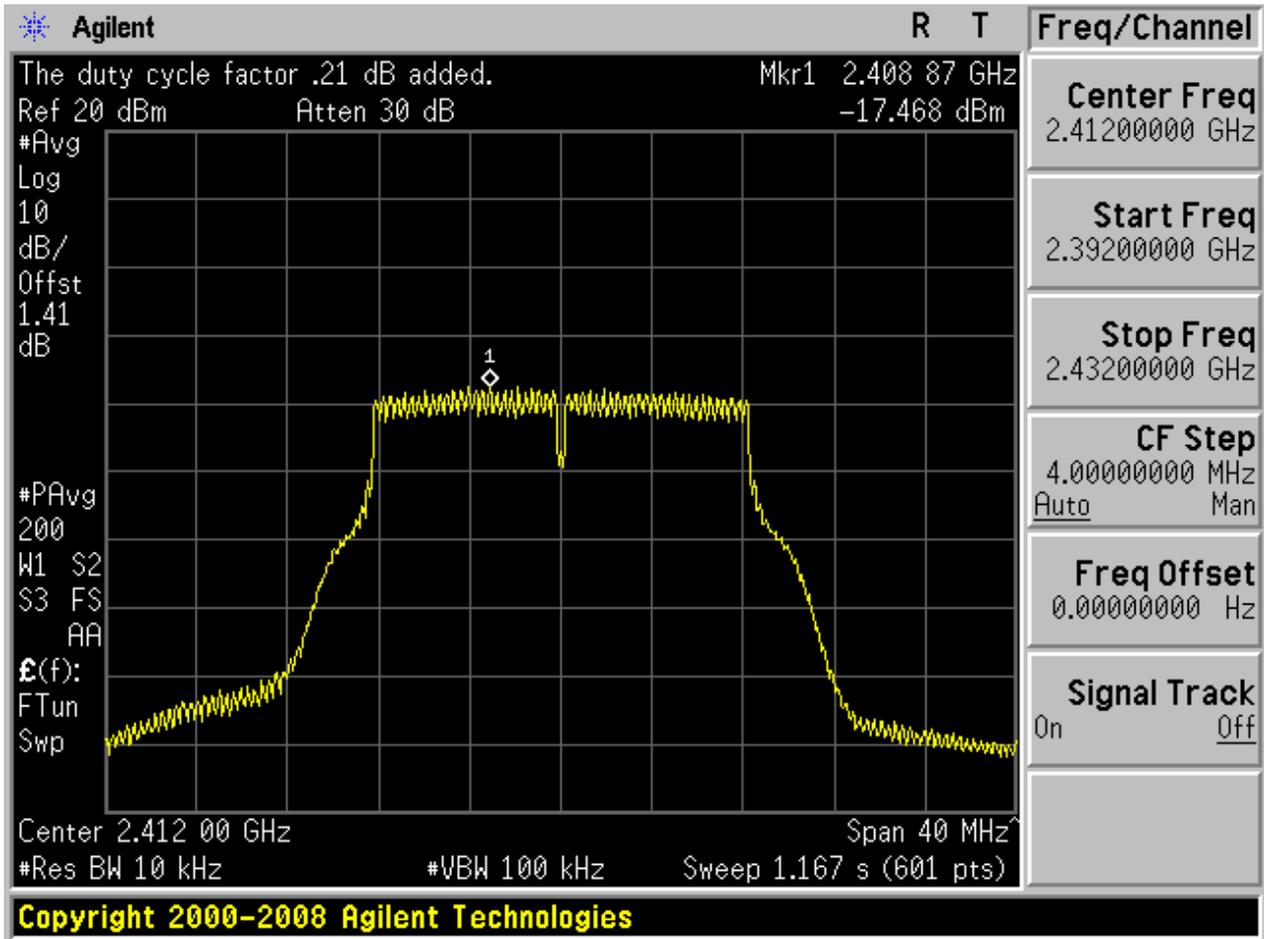


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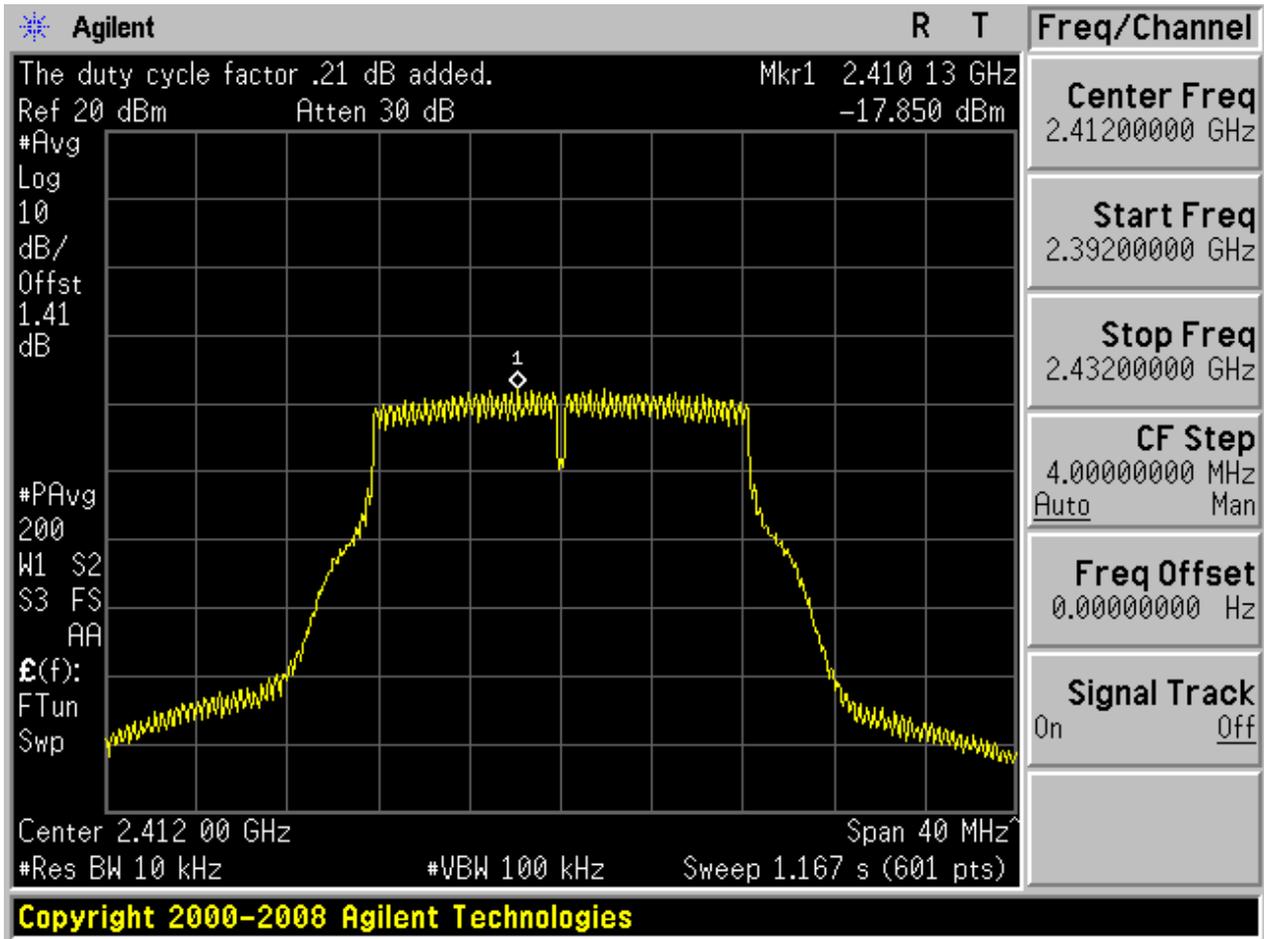


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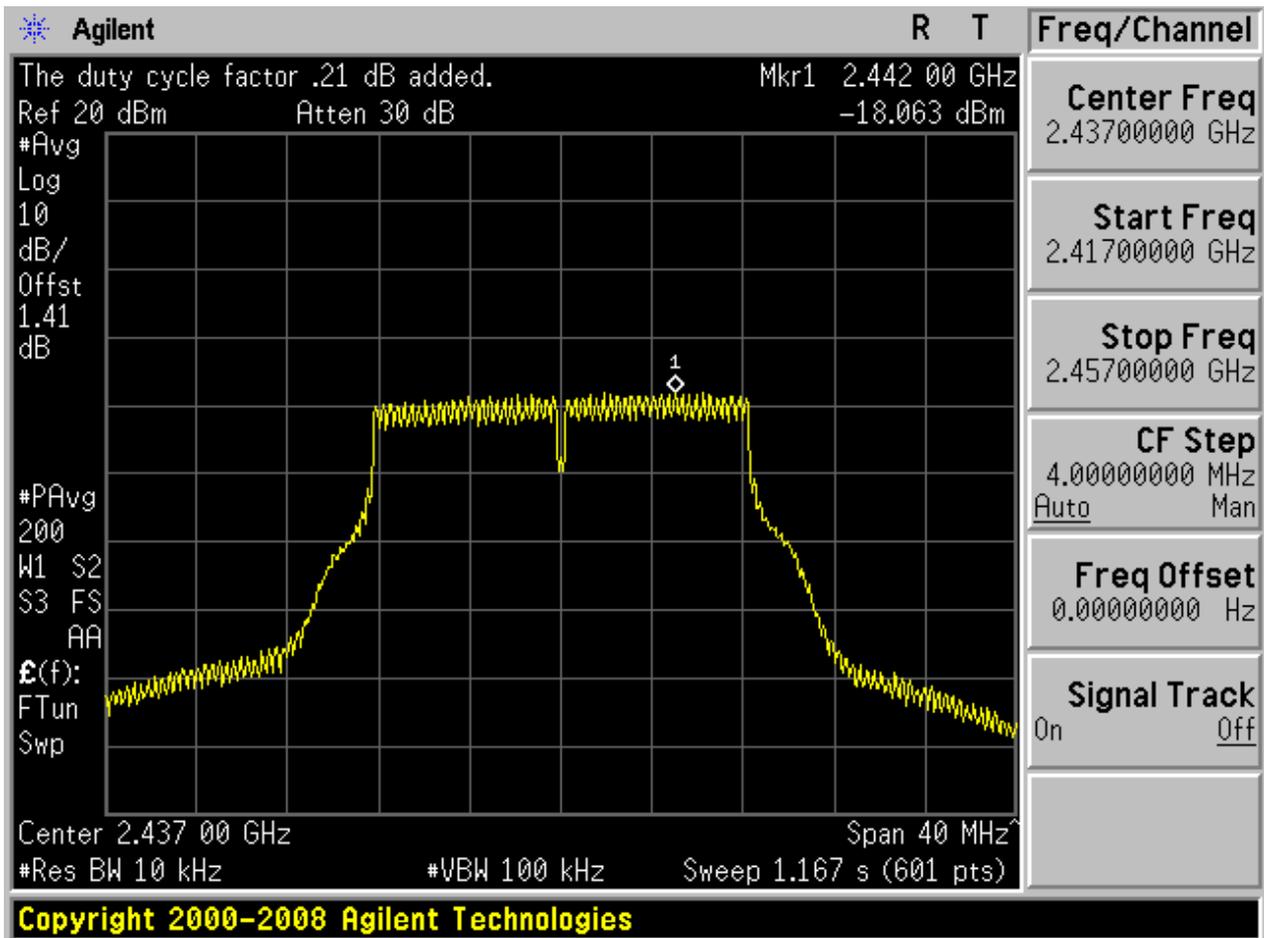


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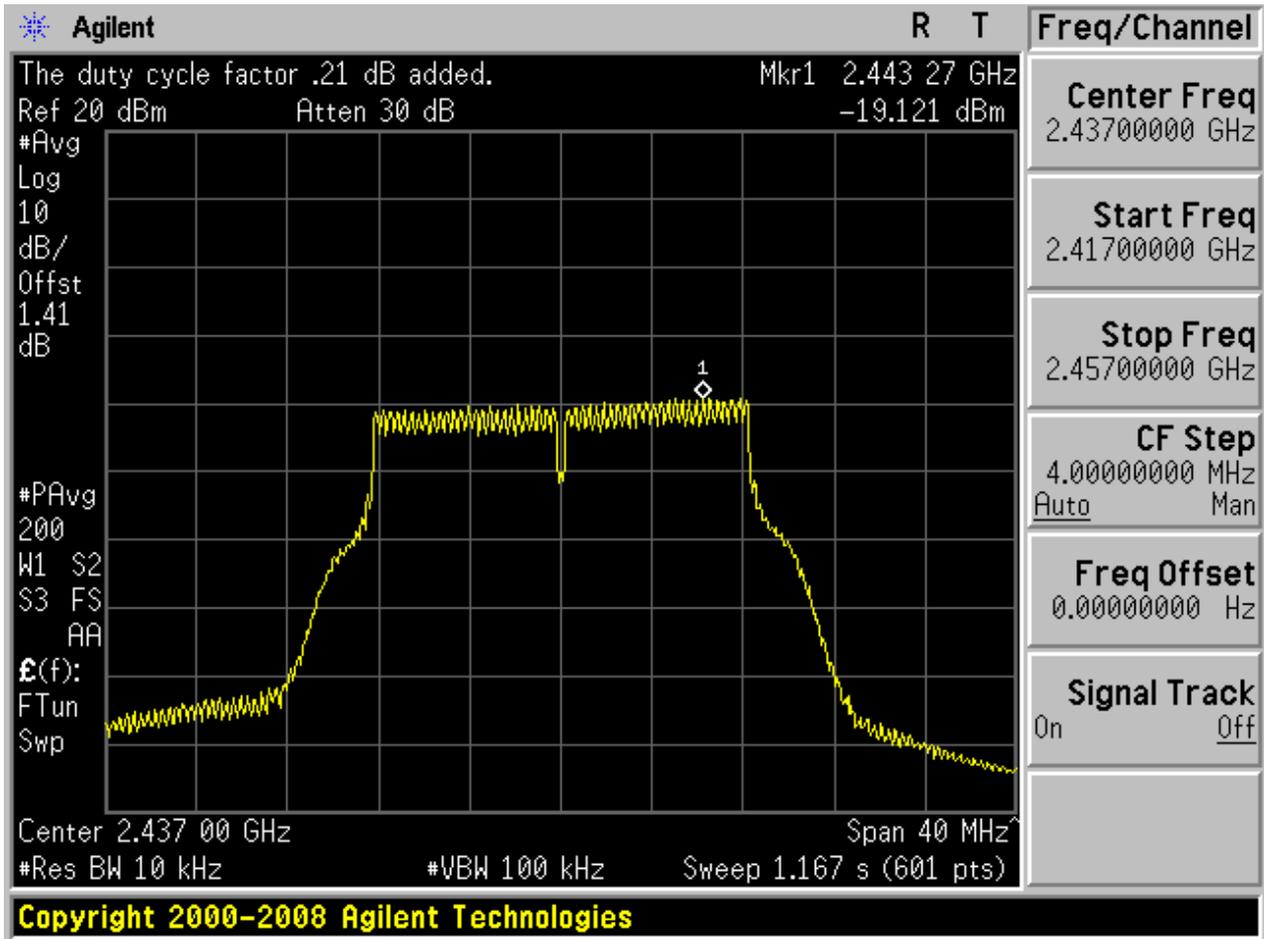


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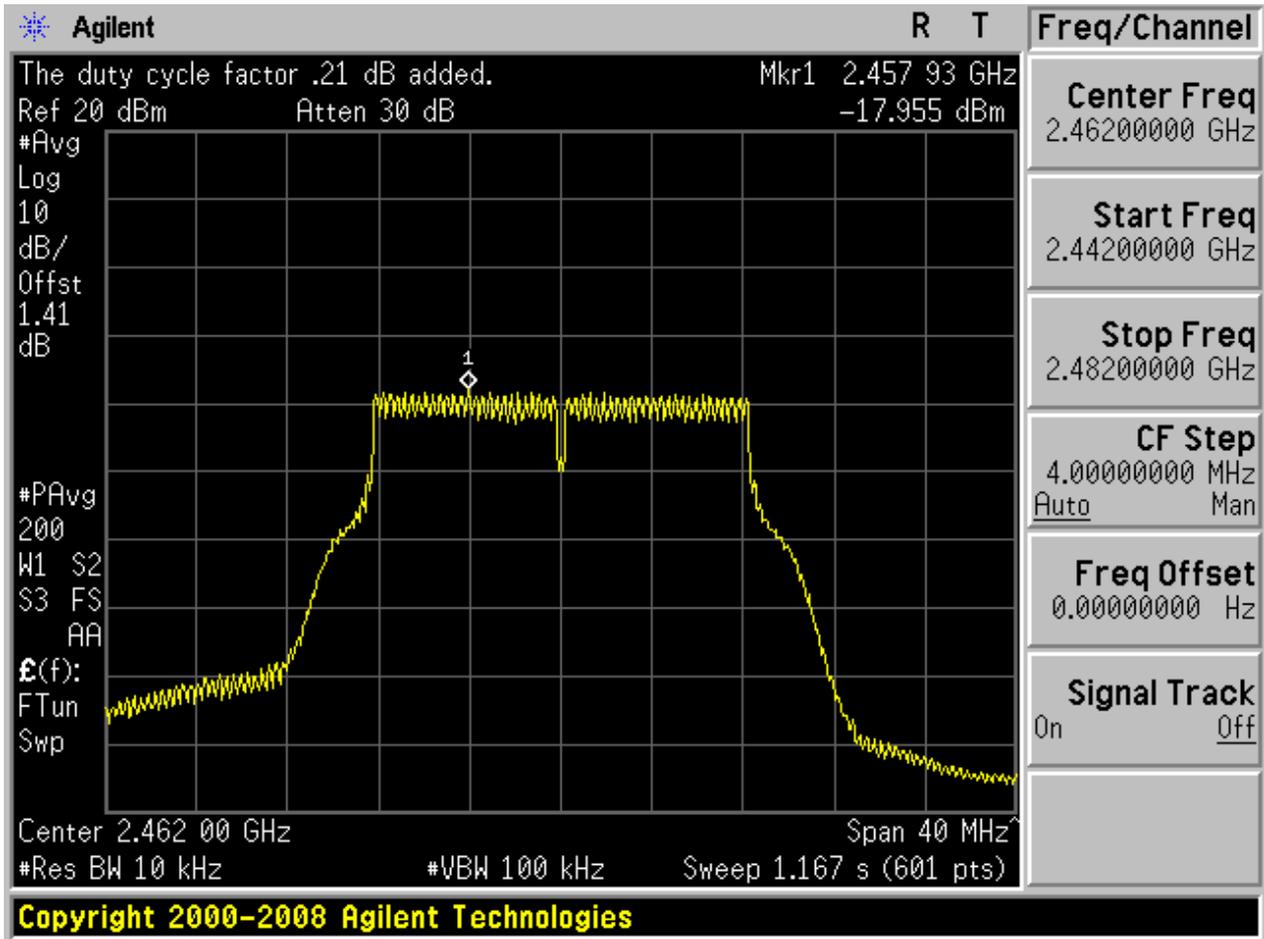


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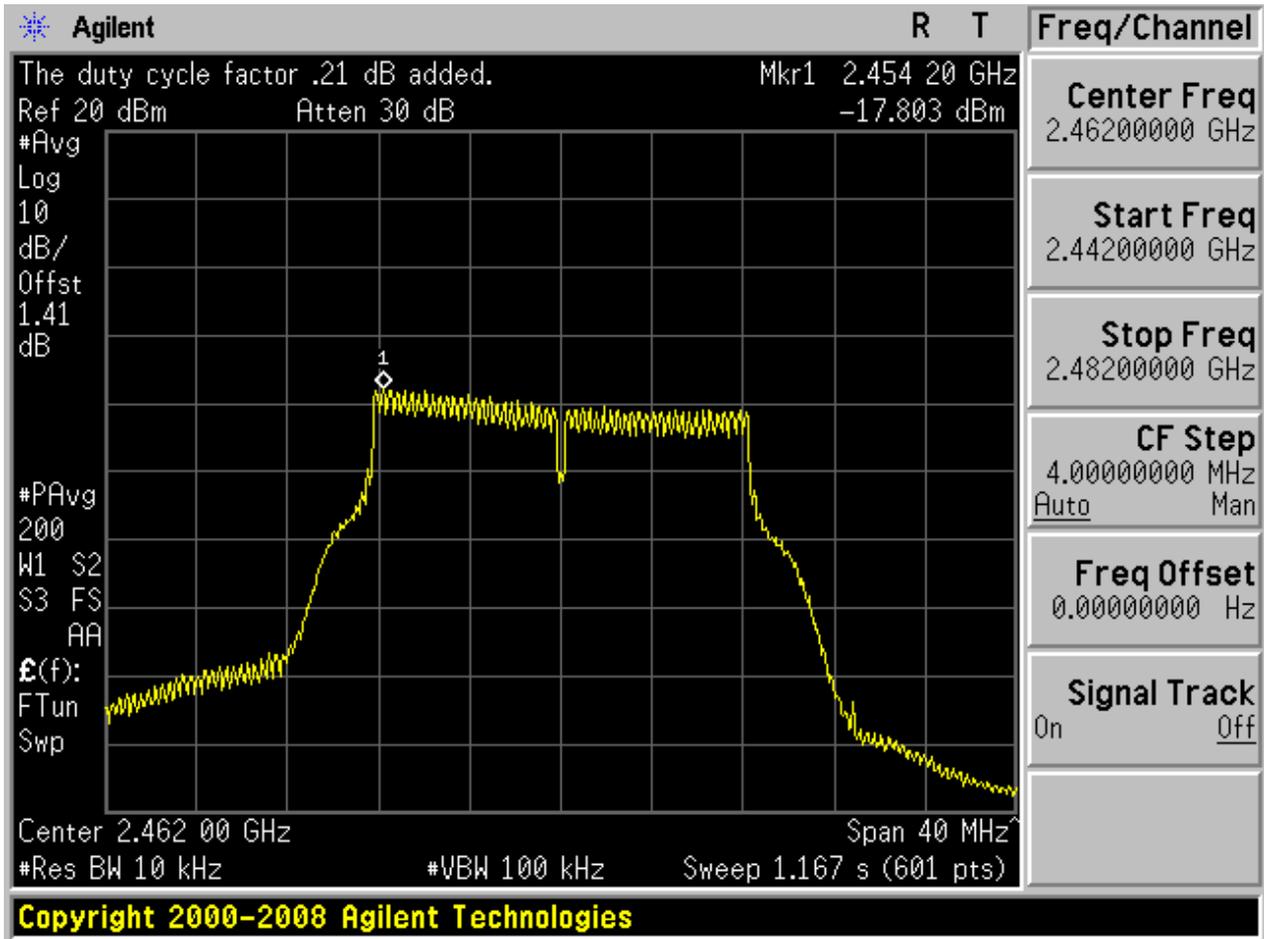


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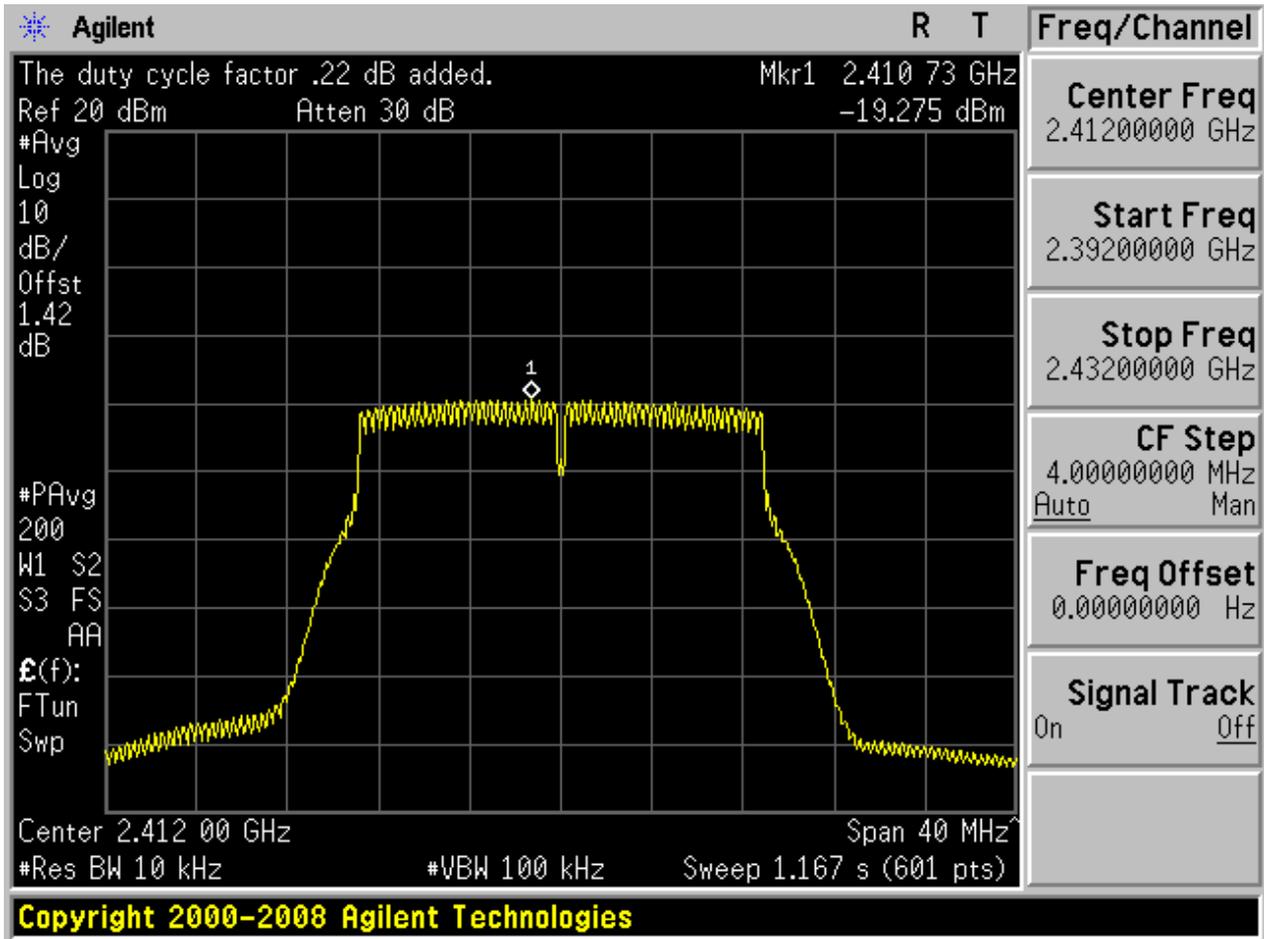


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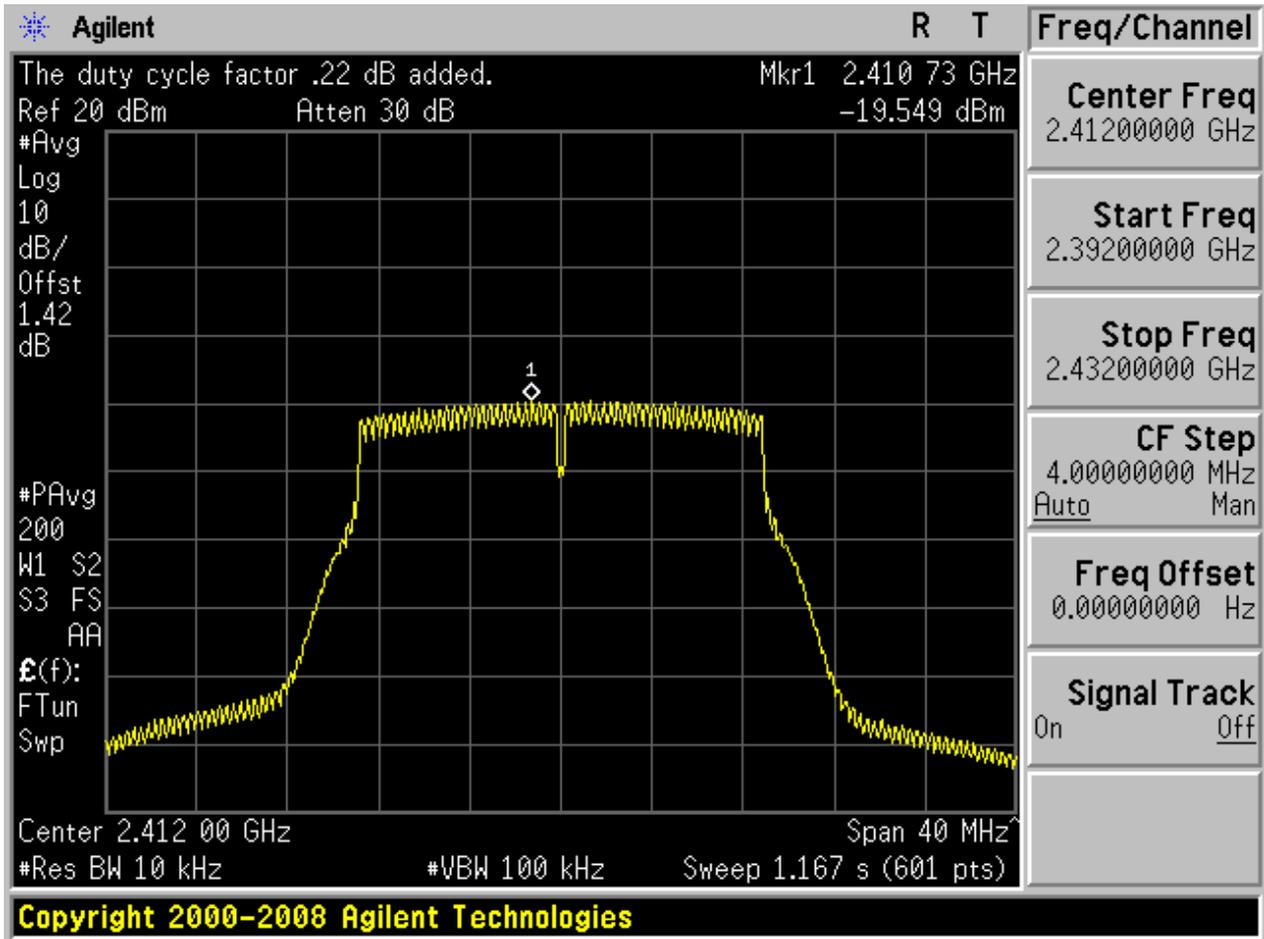


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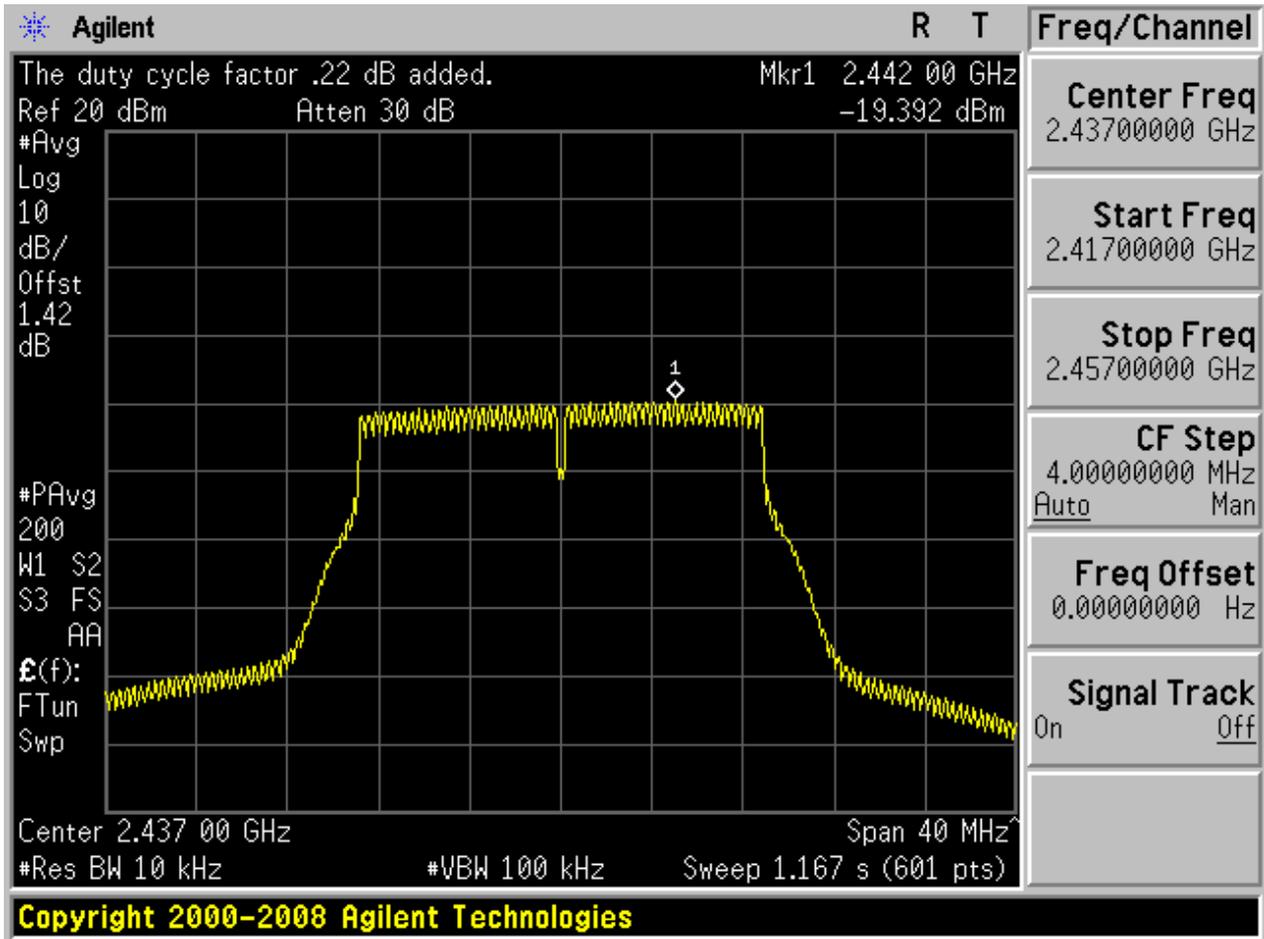


2.14 11N20_L@Ant 2



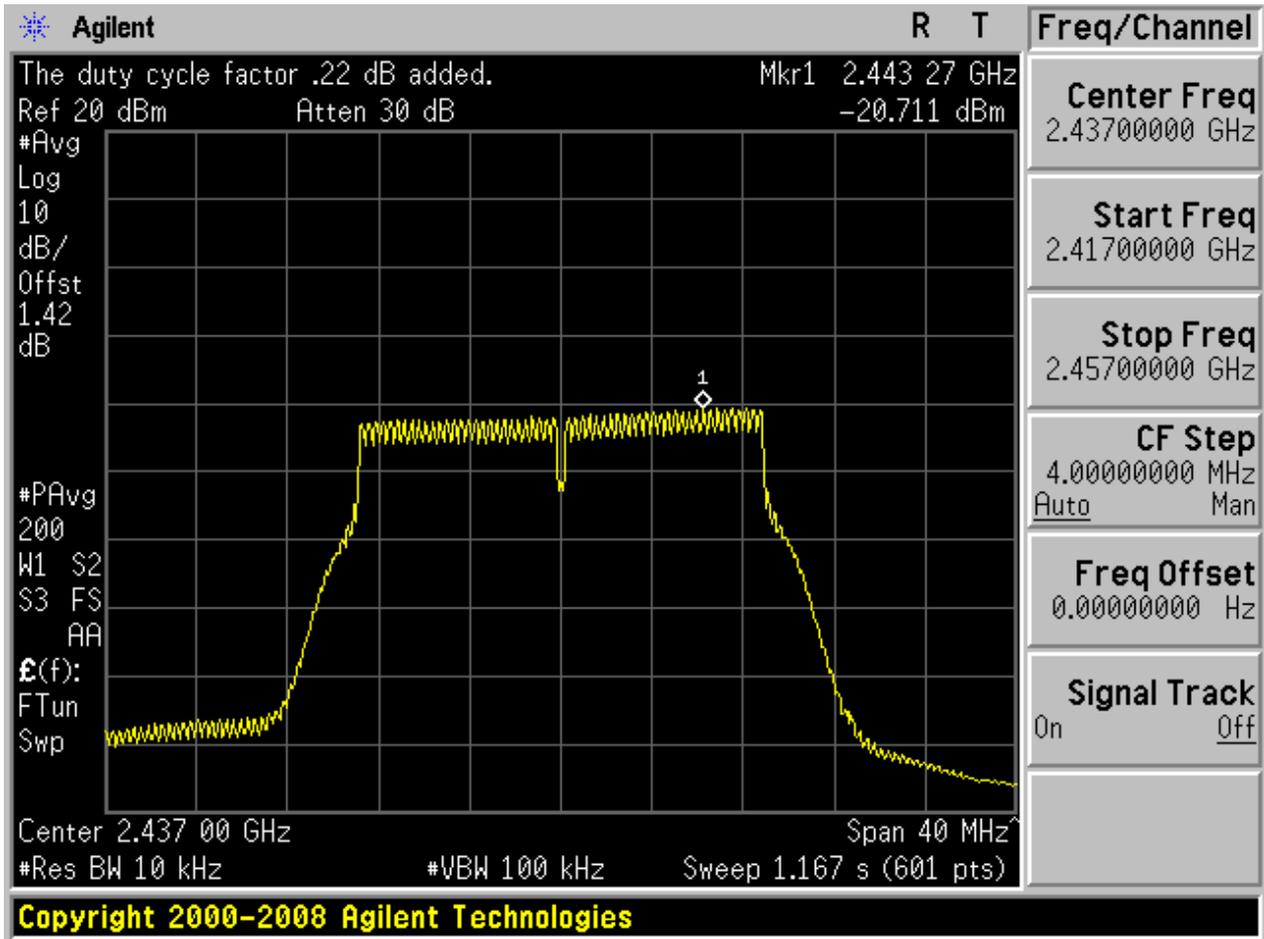


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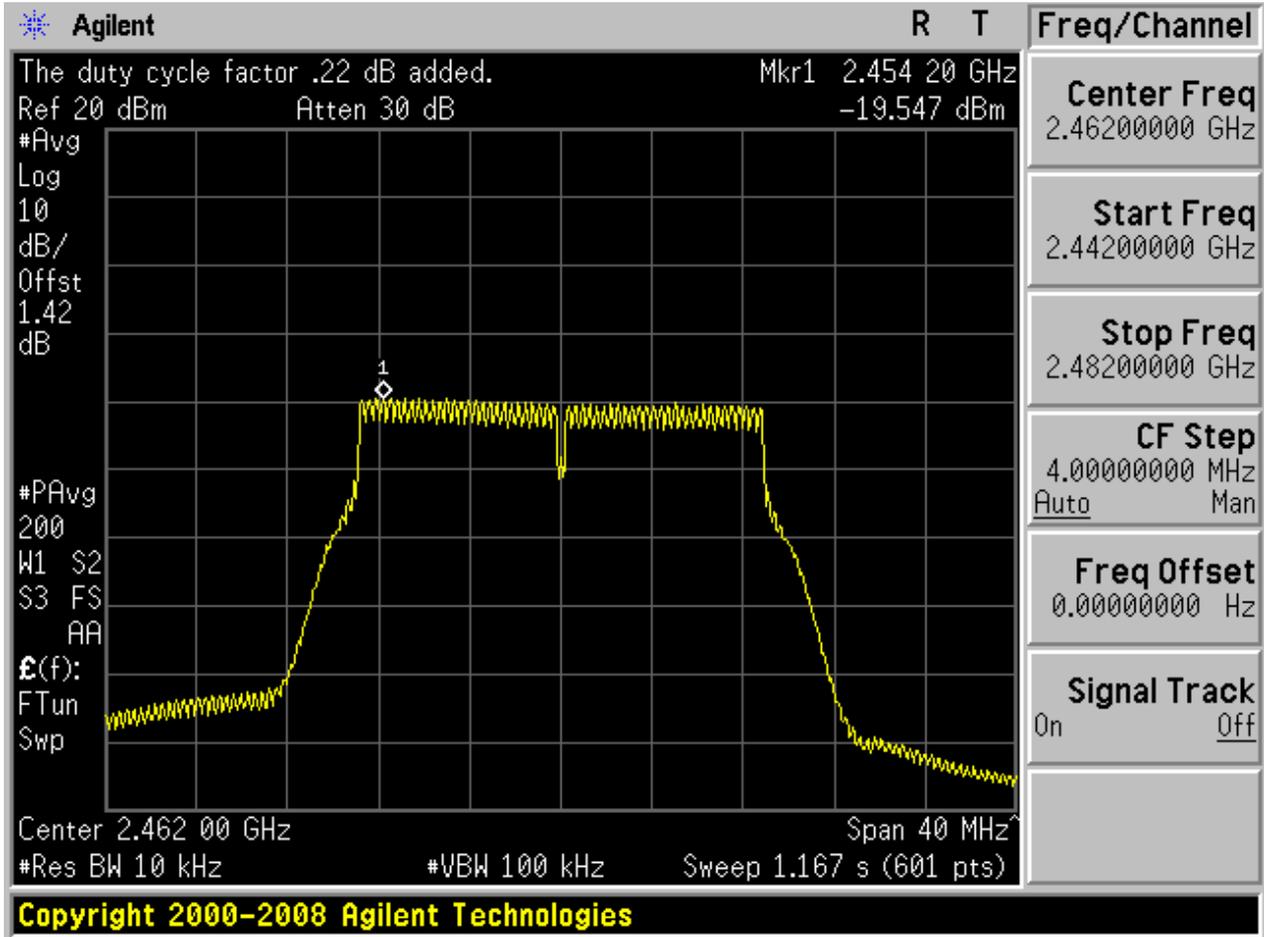


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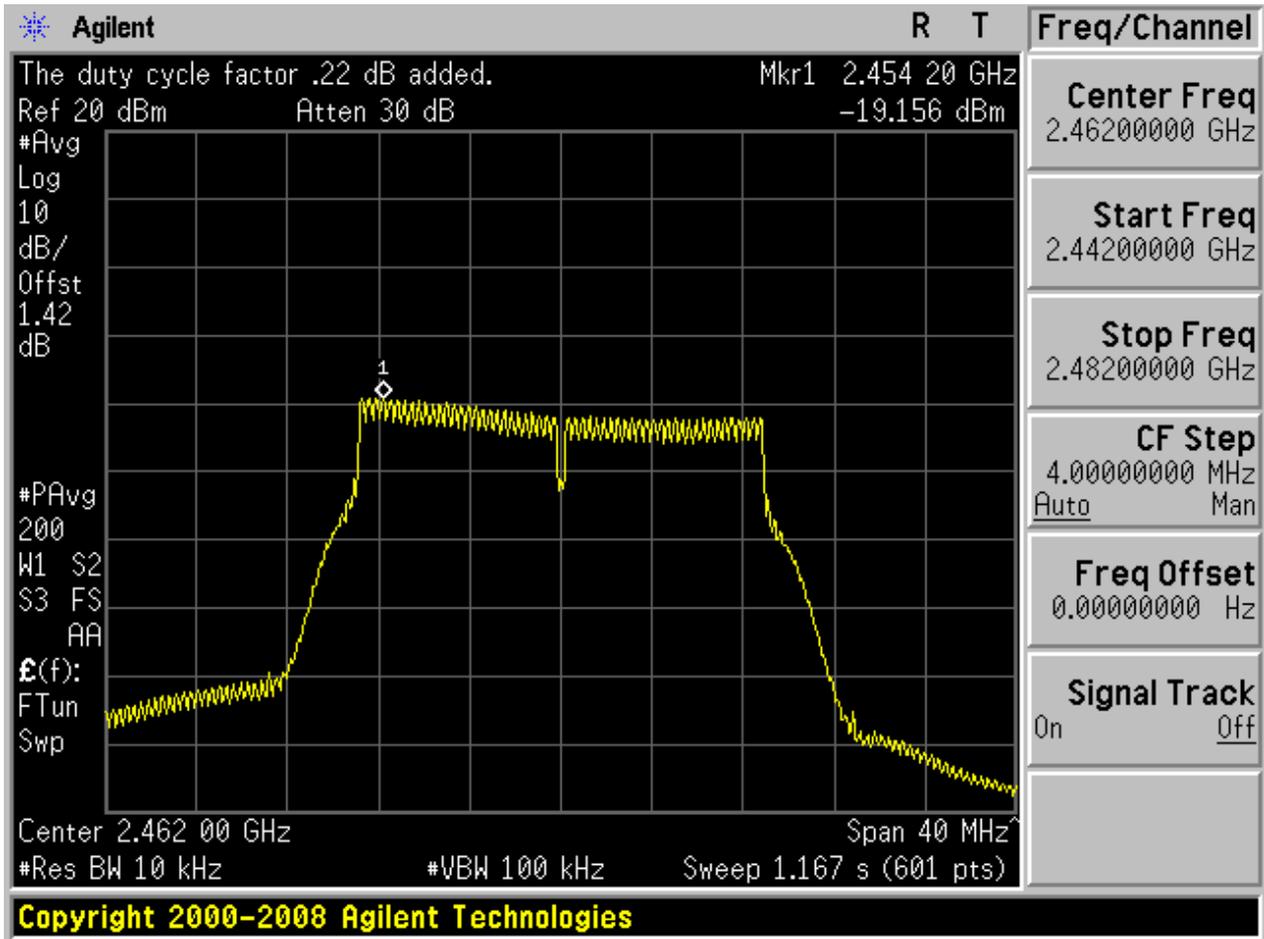


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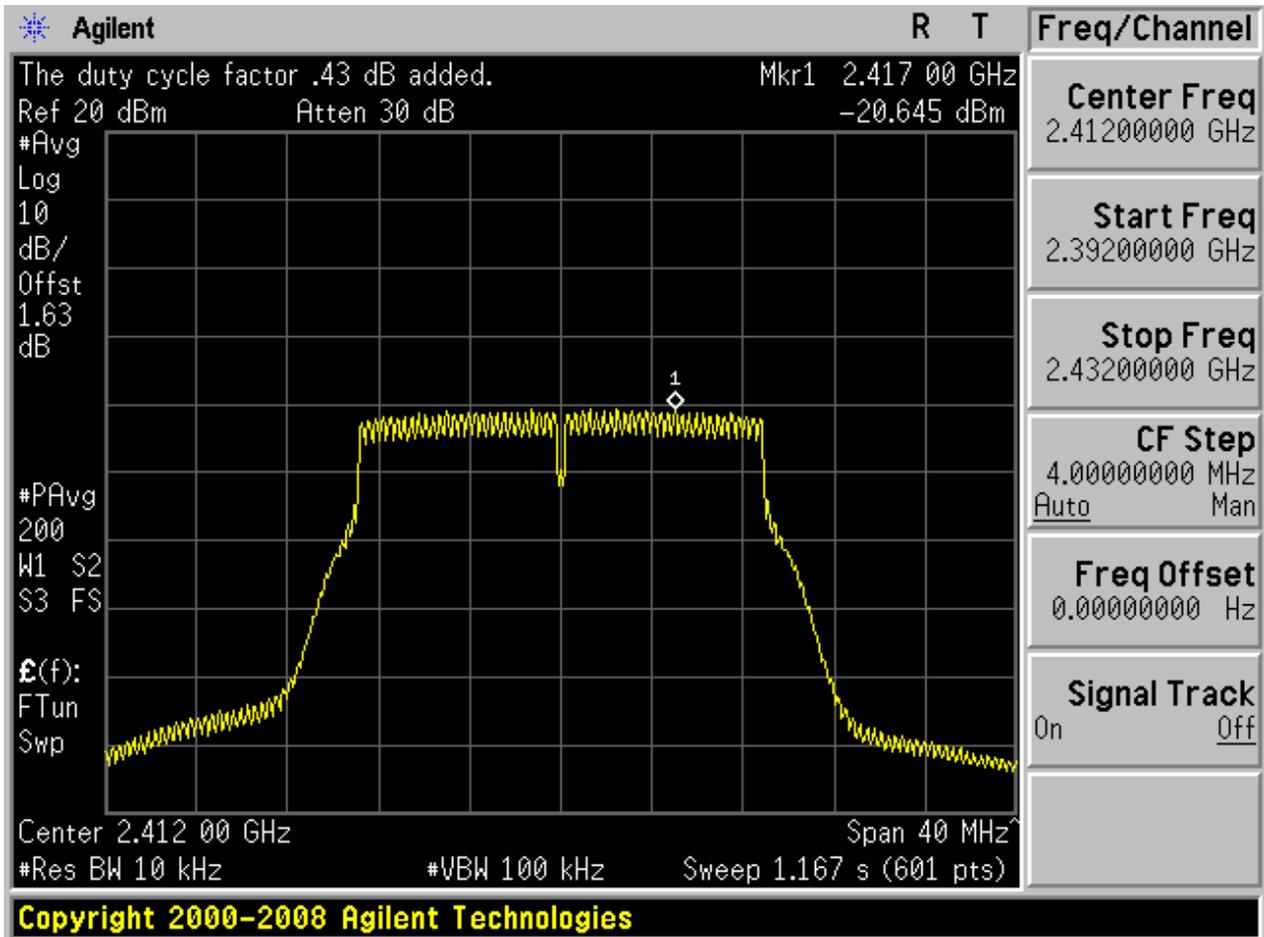




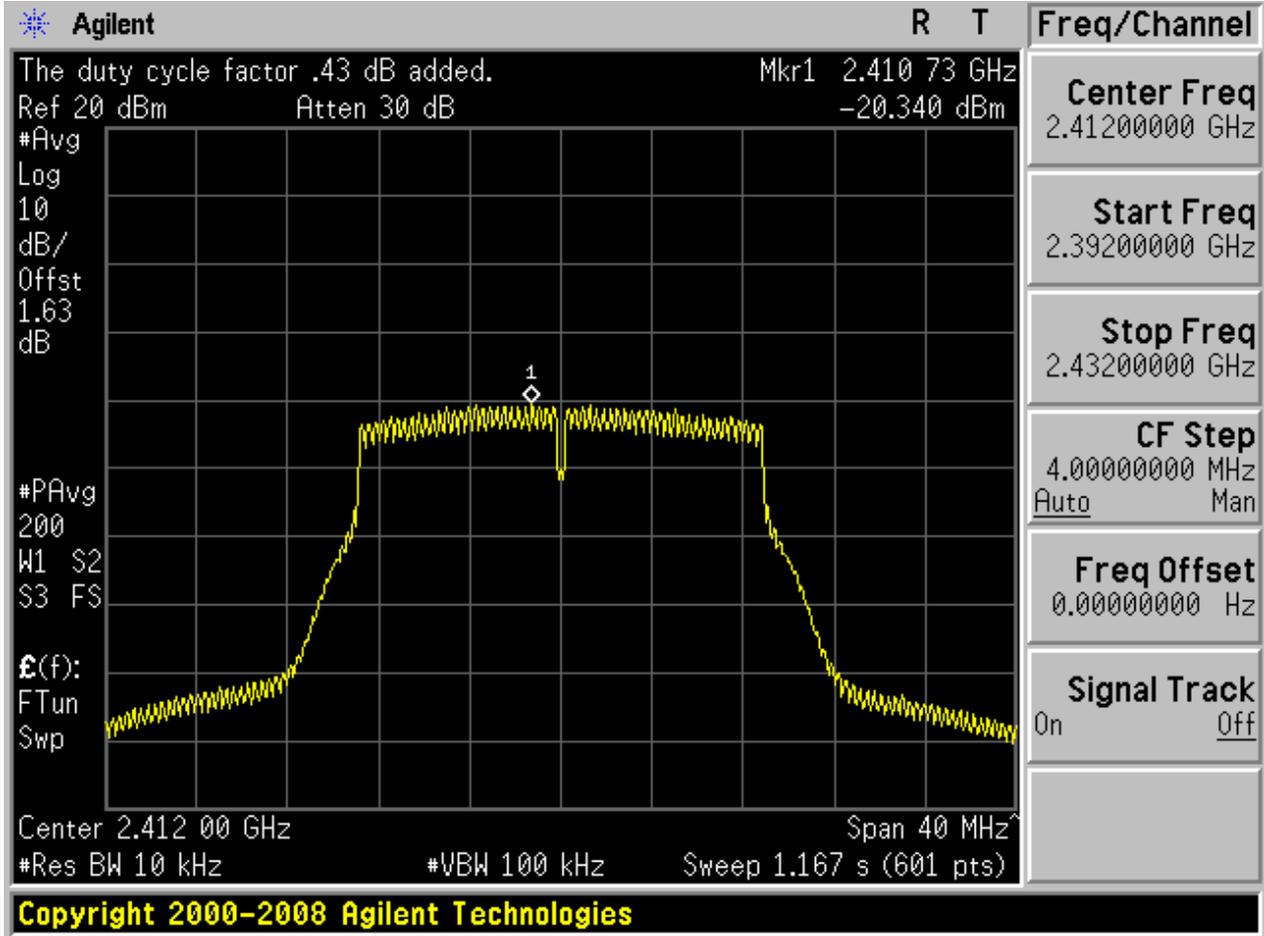
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2.13 11N20m_L@Ant 1

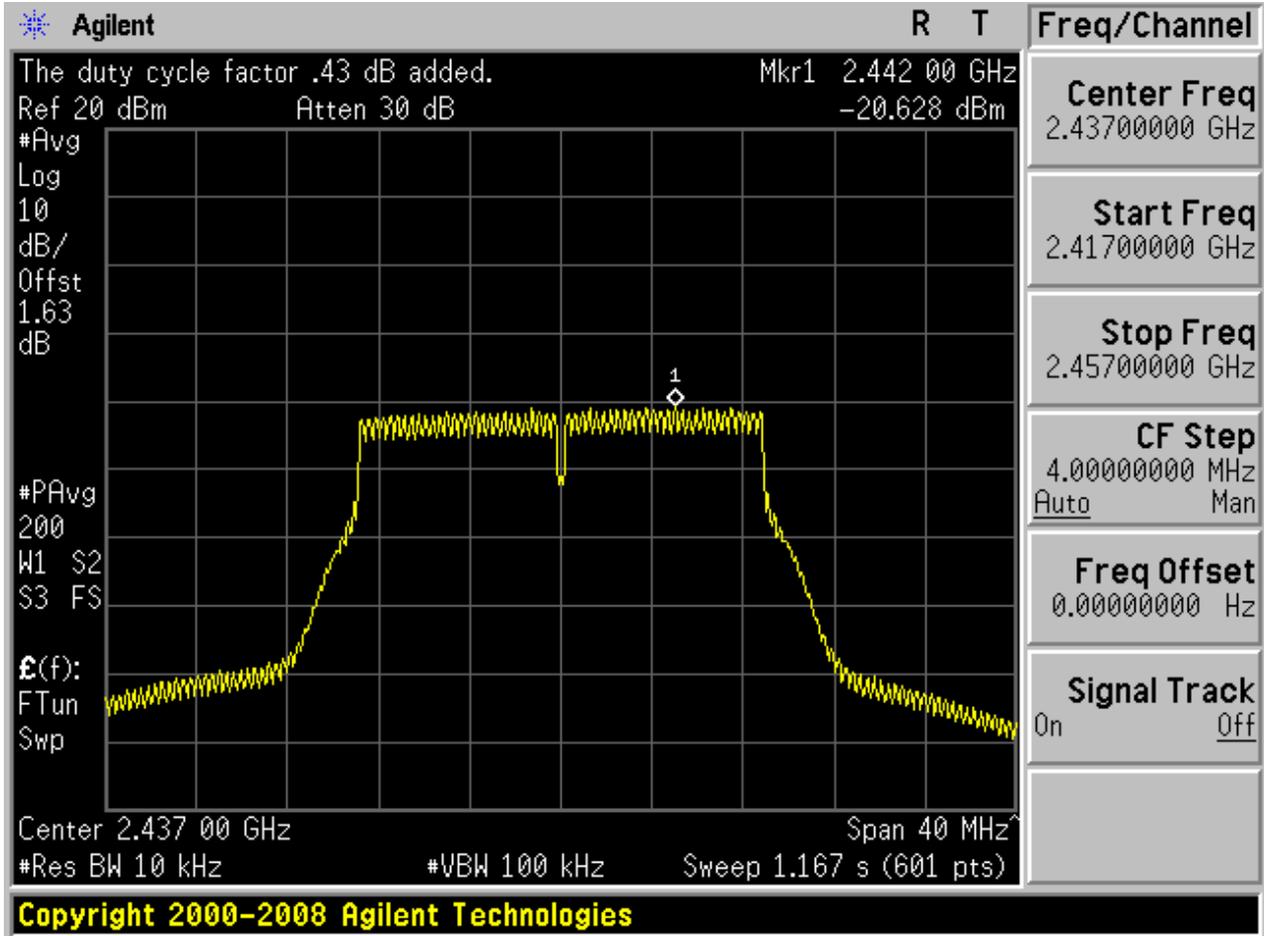


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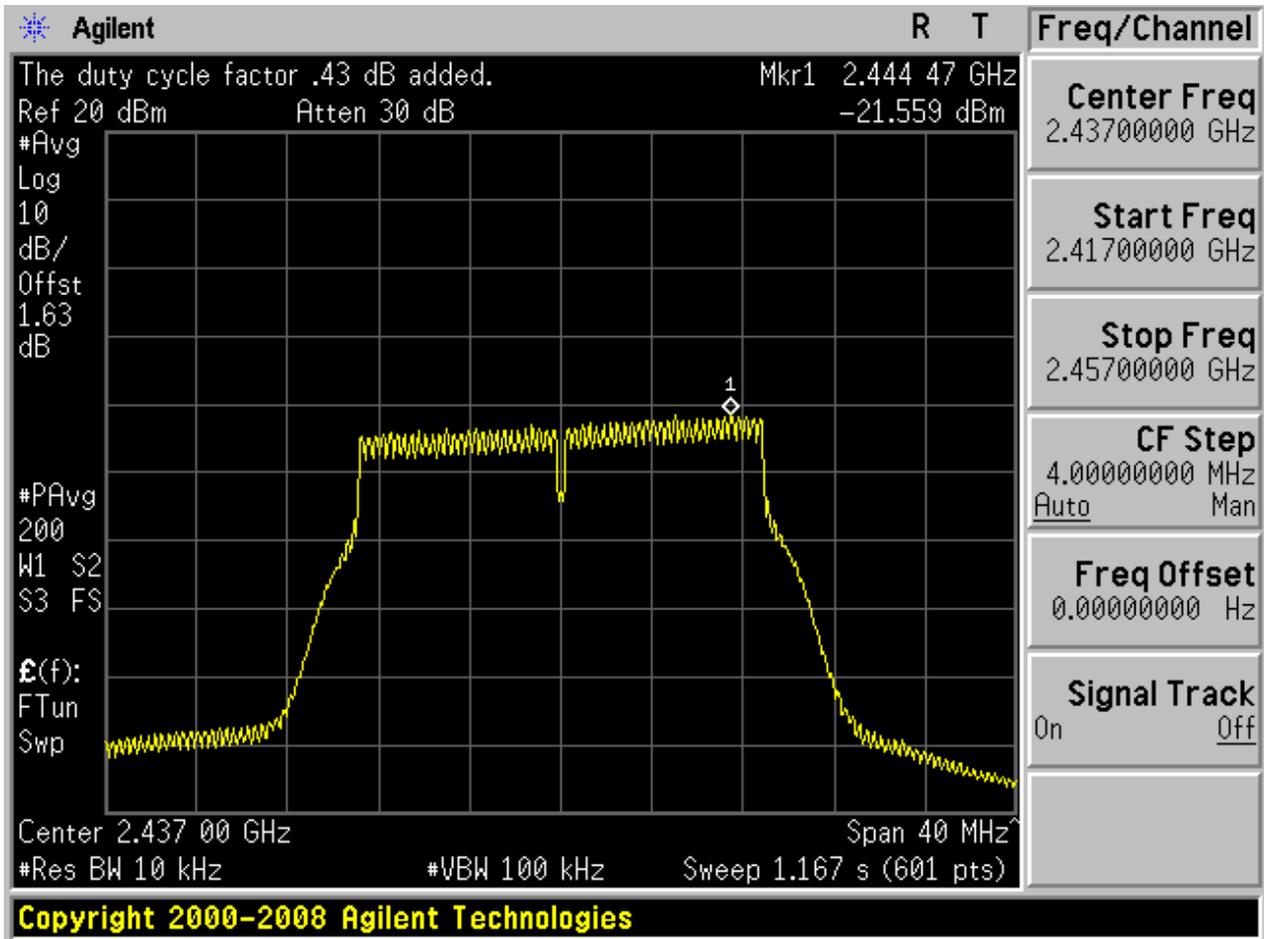




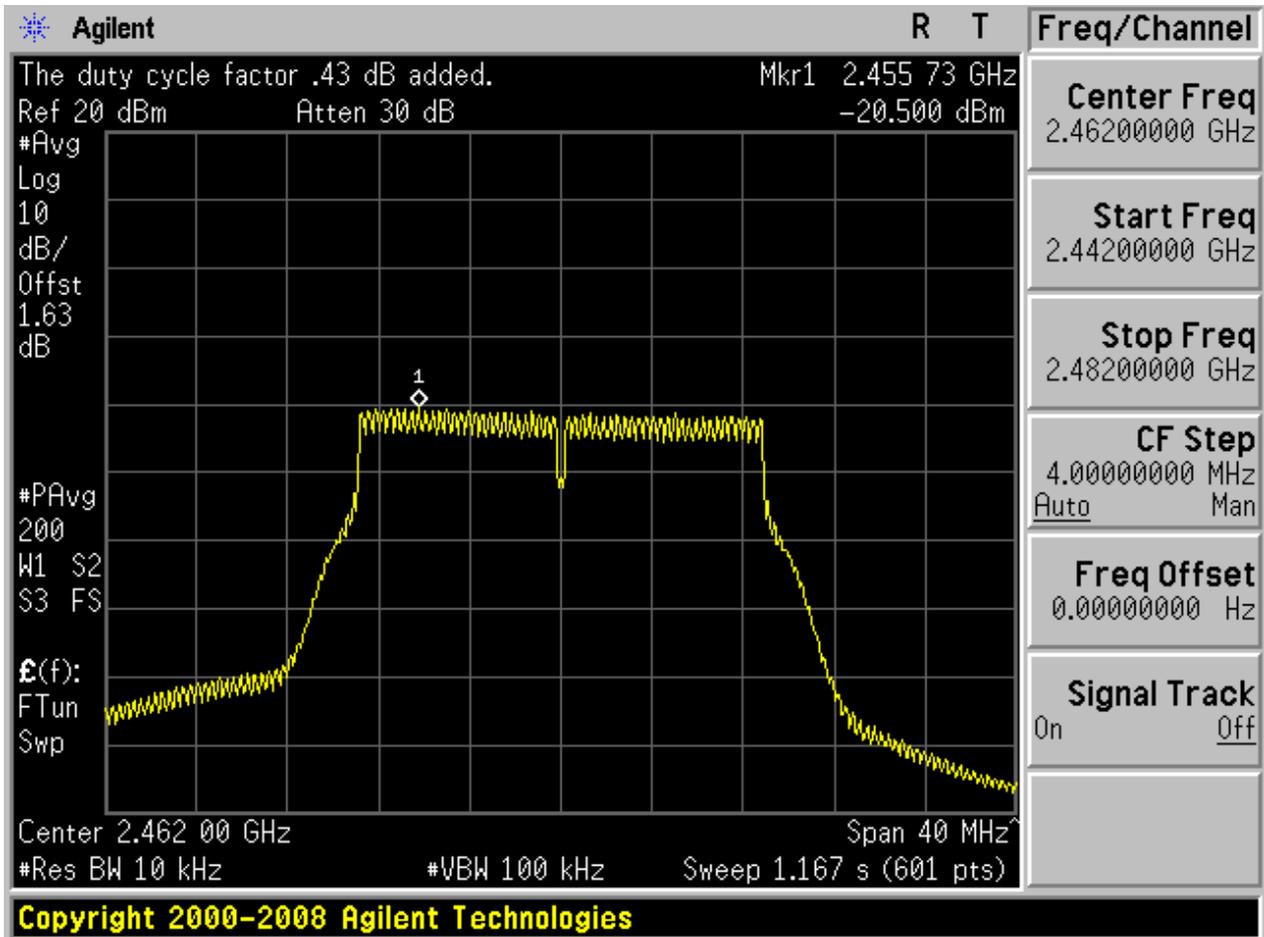
2.13 11N20m_M@Ant 1



2.13 11N20m_M@Ant 2

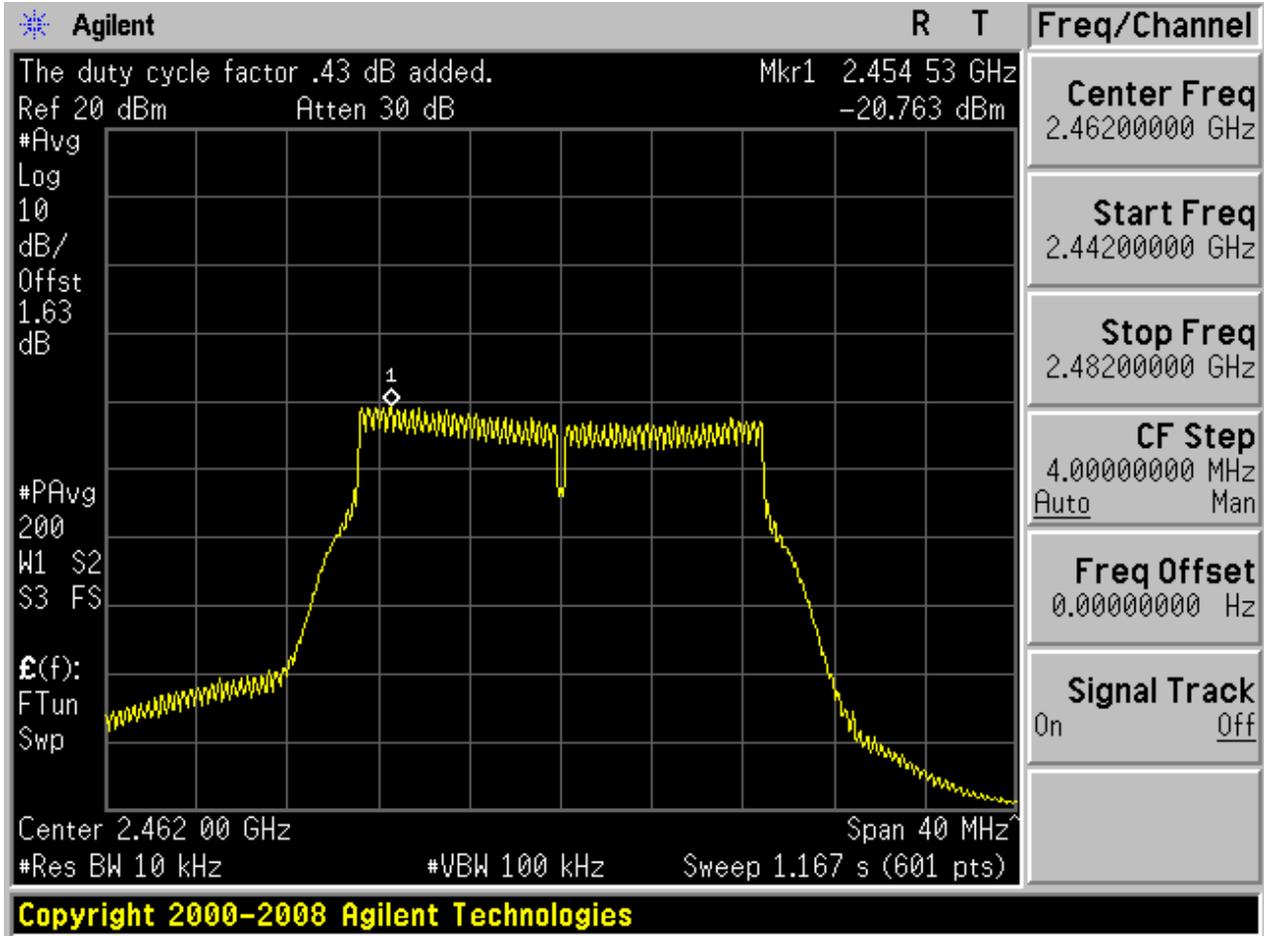


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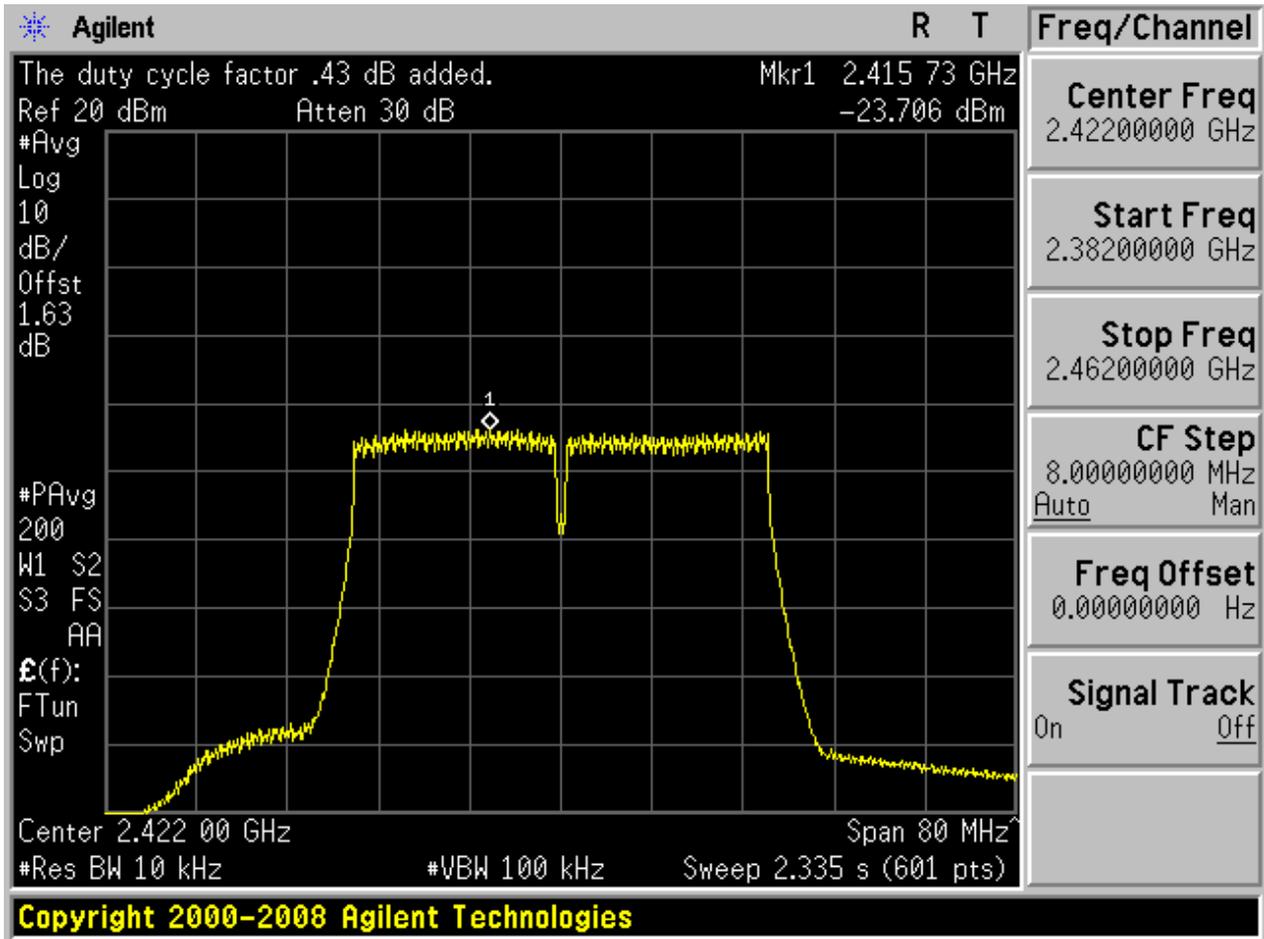


2.13 11N20m_H@Ant 2



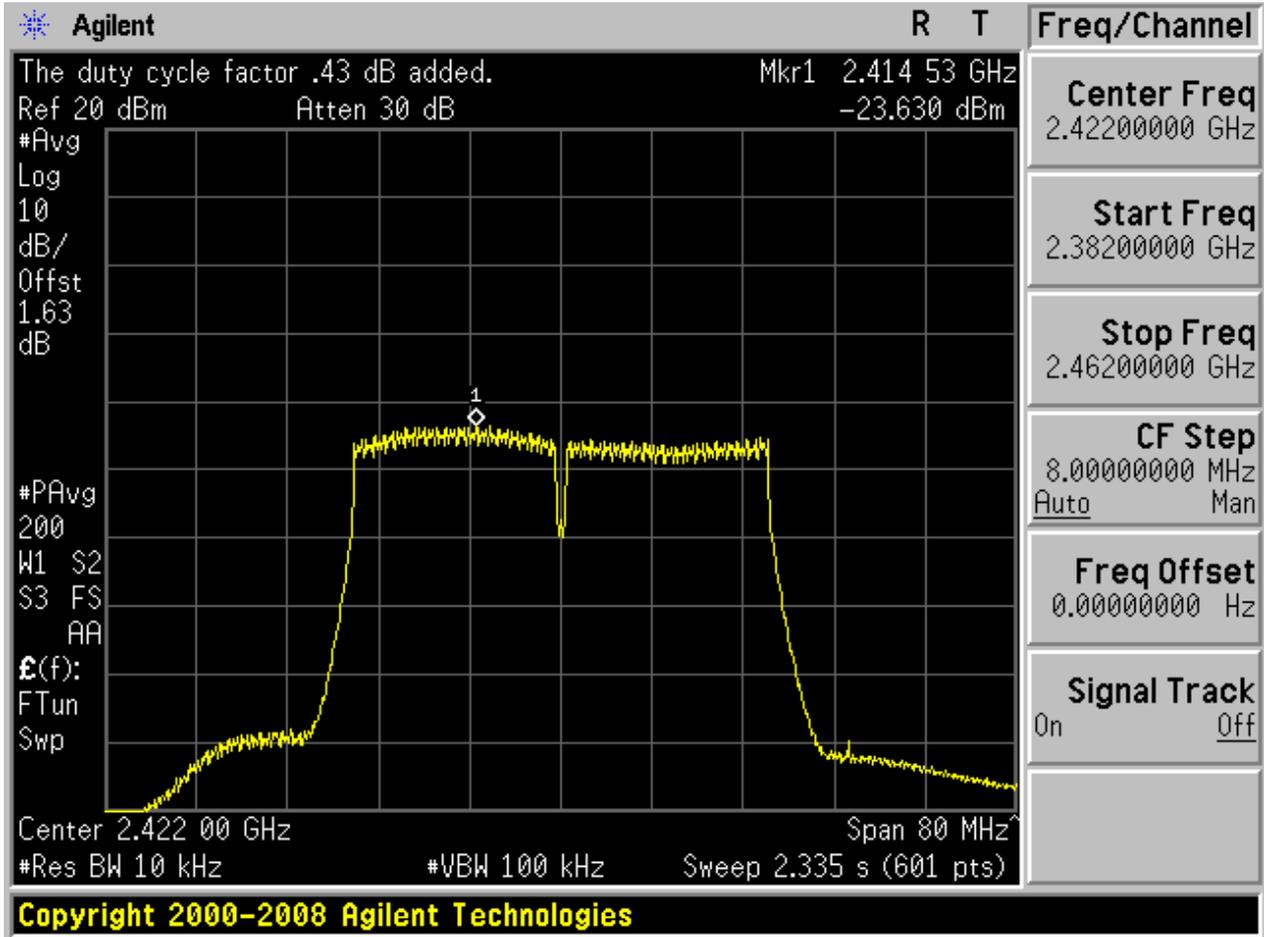


2.19 11N40_L@Ant 1



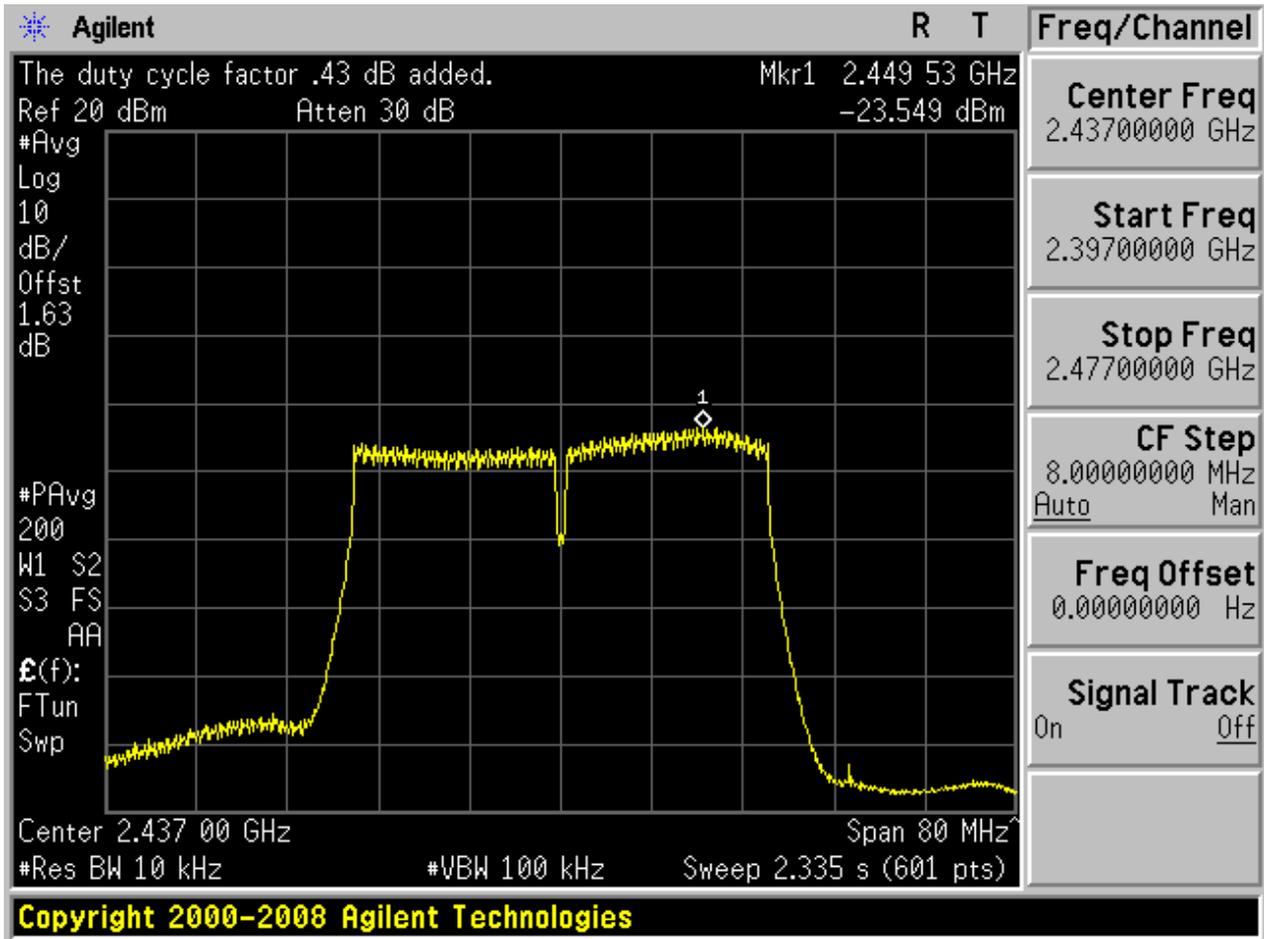


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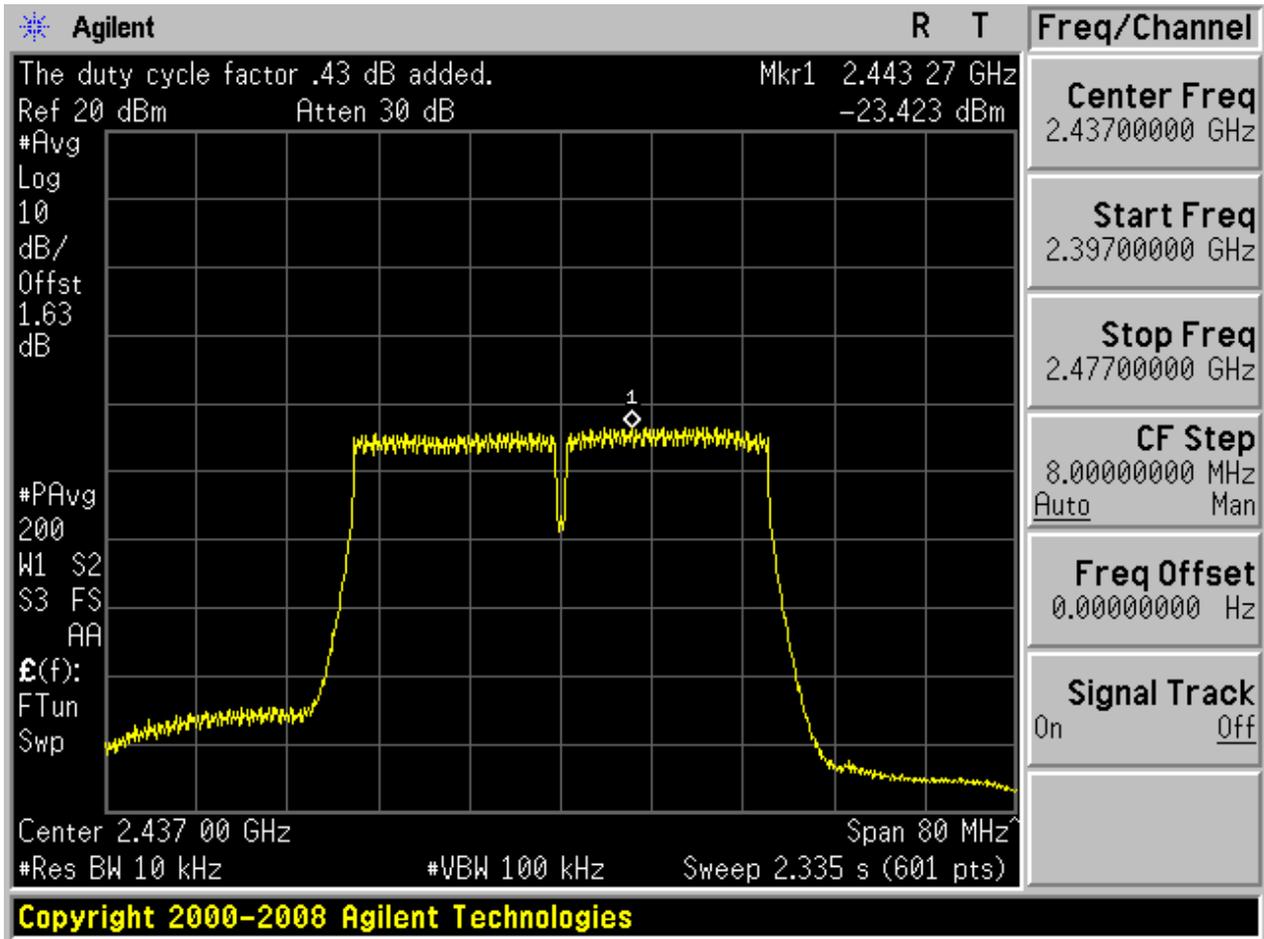


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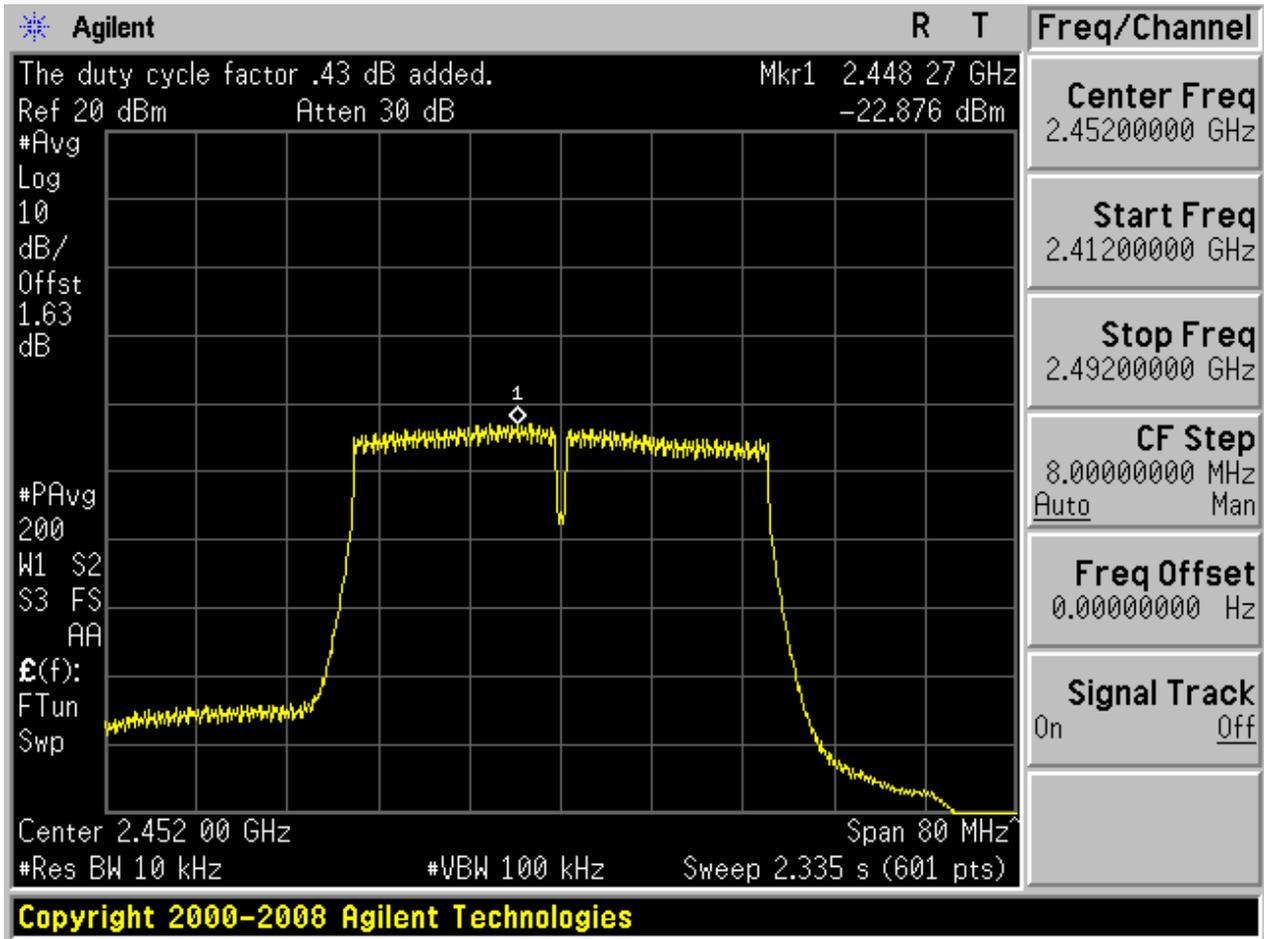


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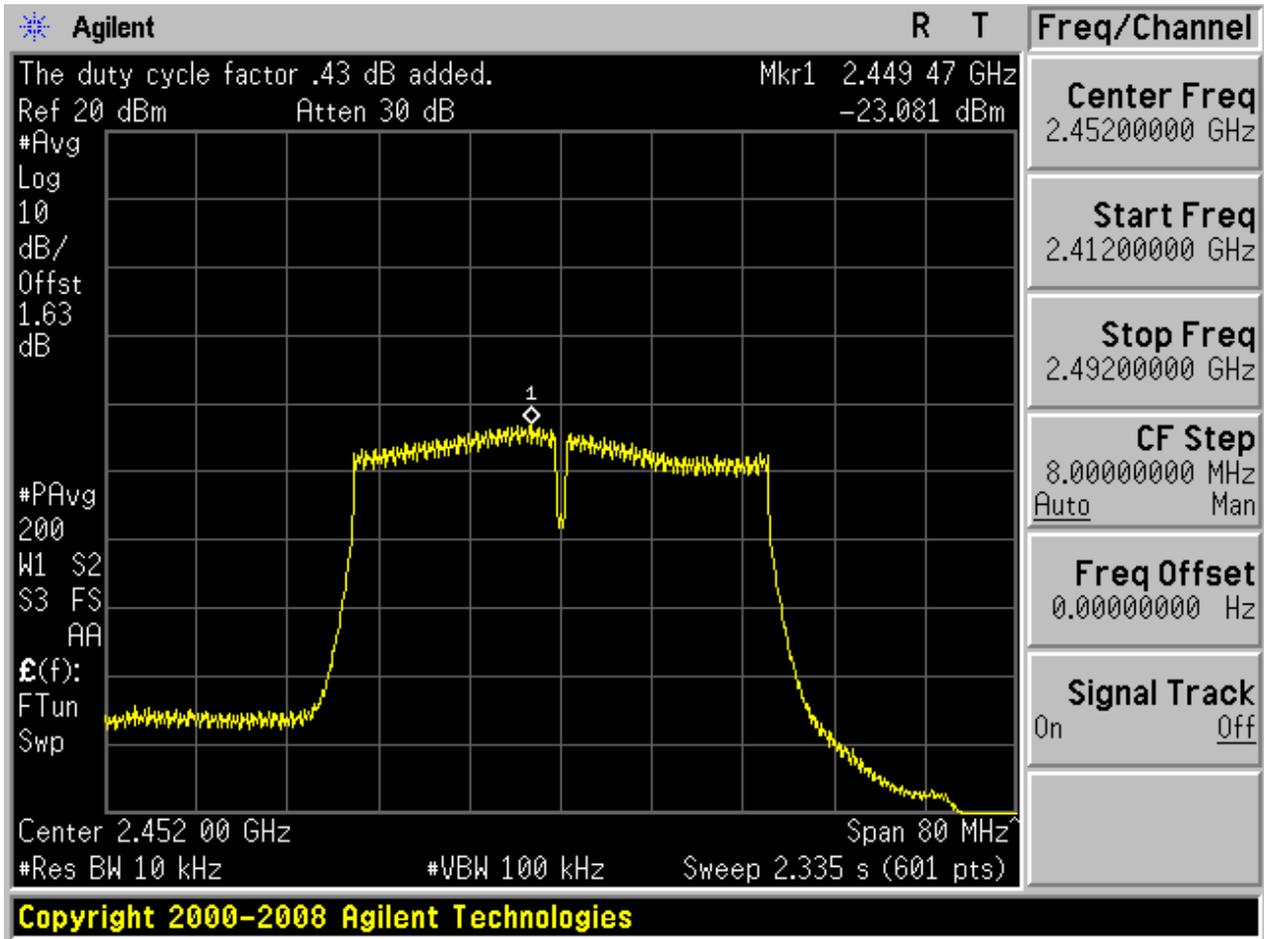


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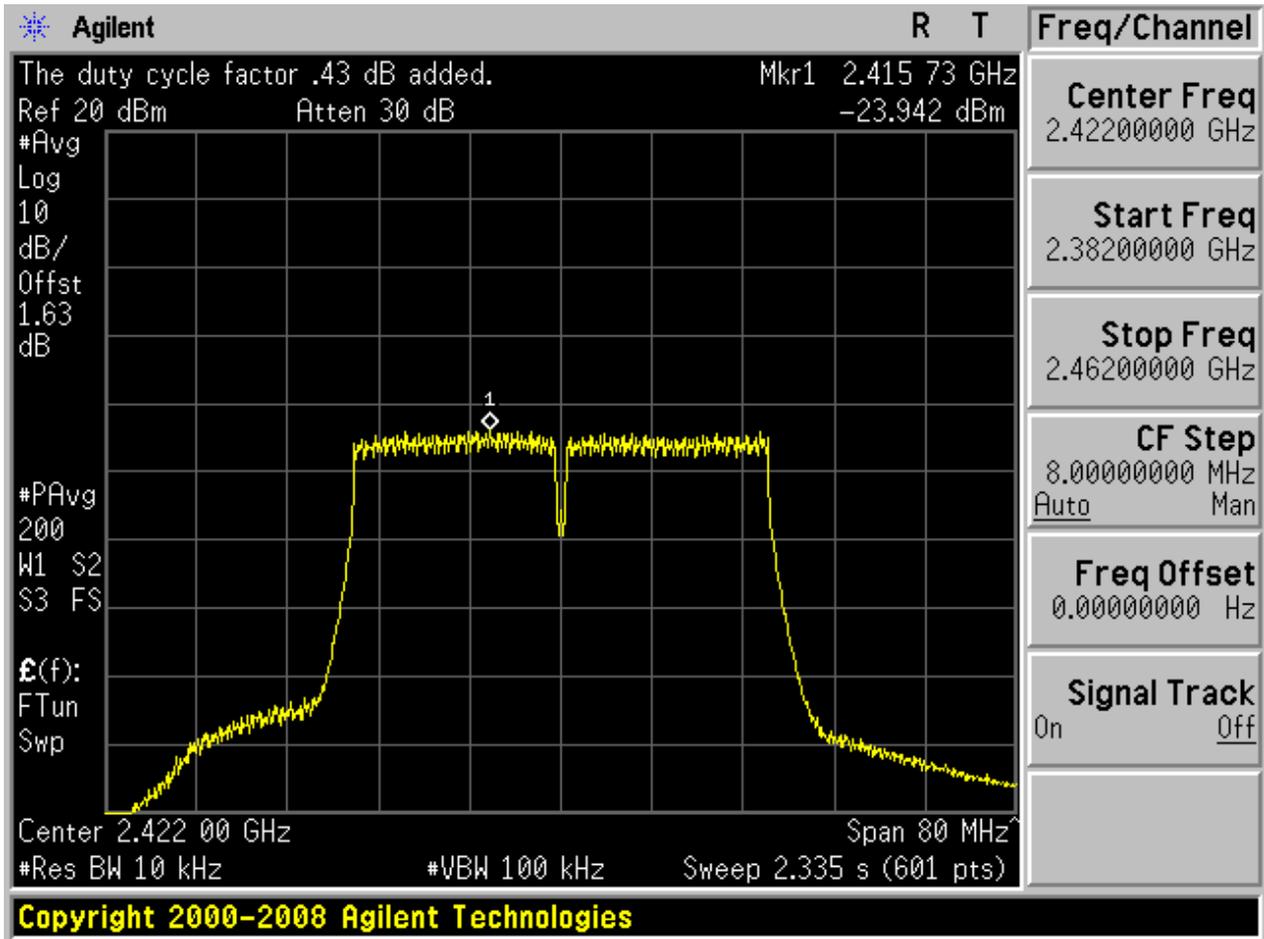


2.24 11N40_H@Ant 2



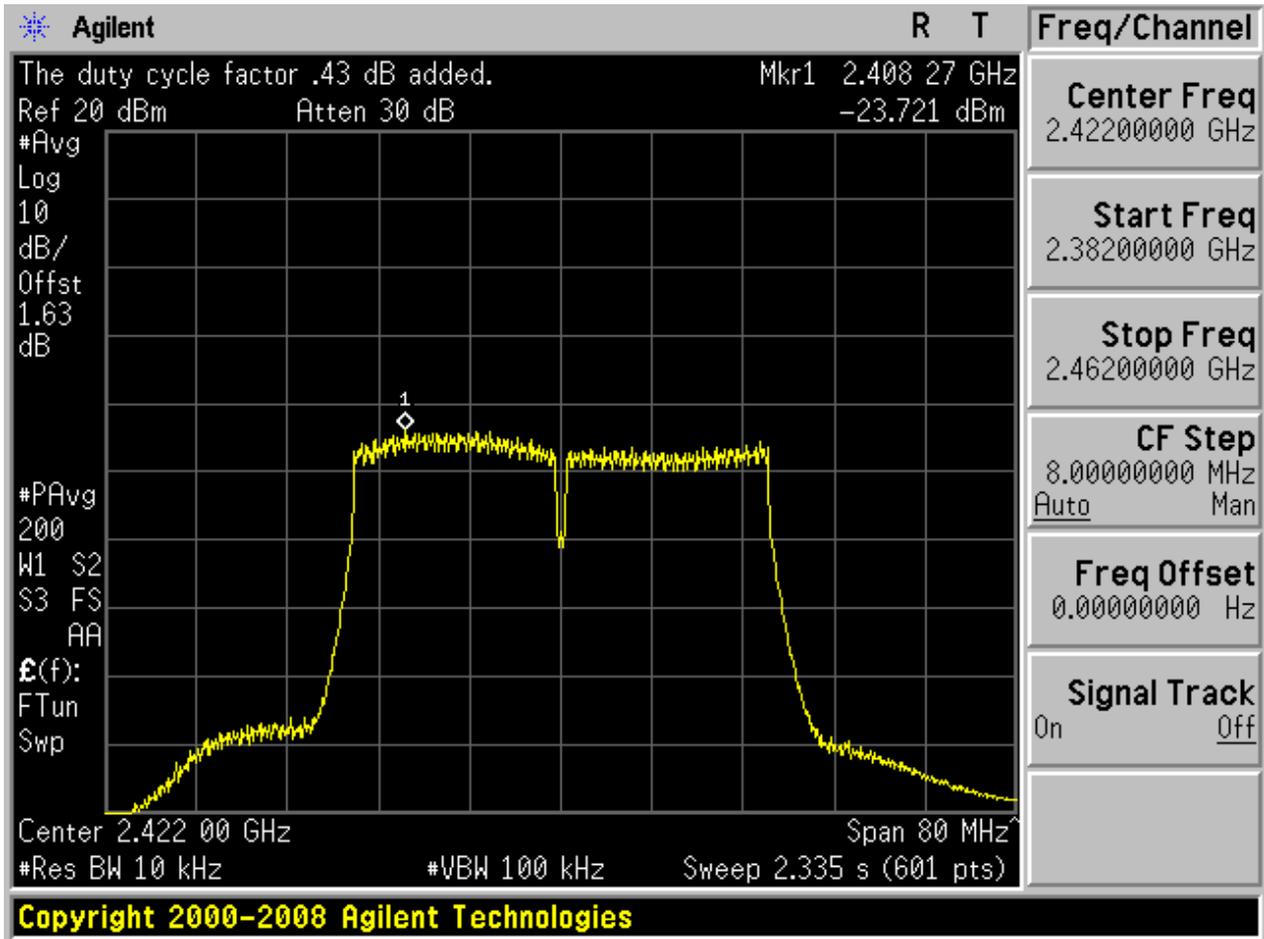


2.31 11N40m_L@Ant 1



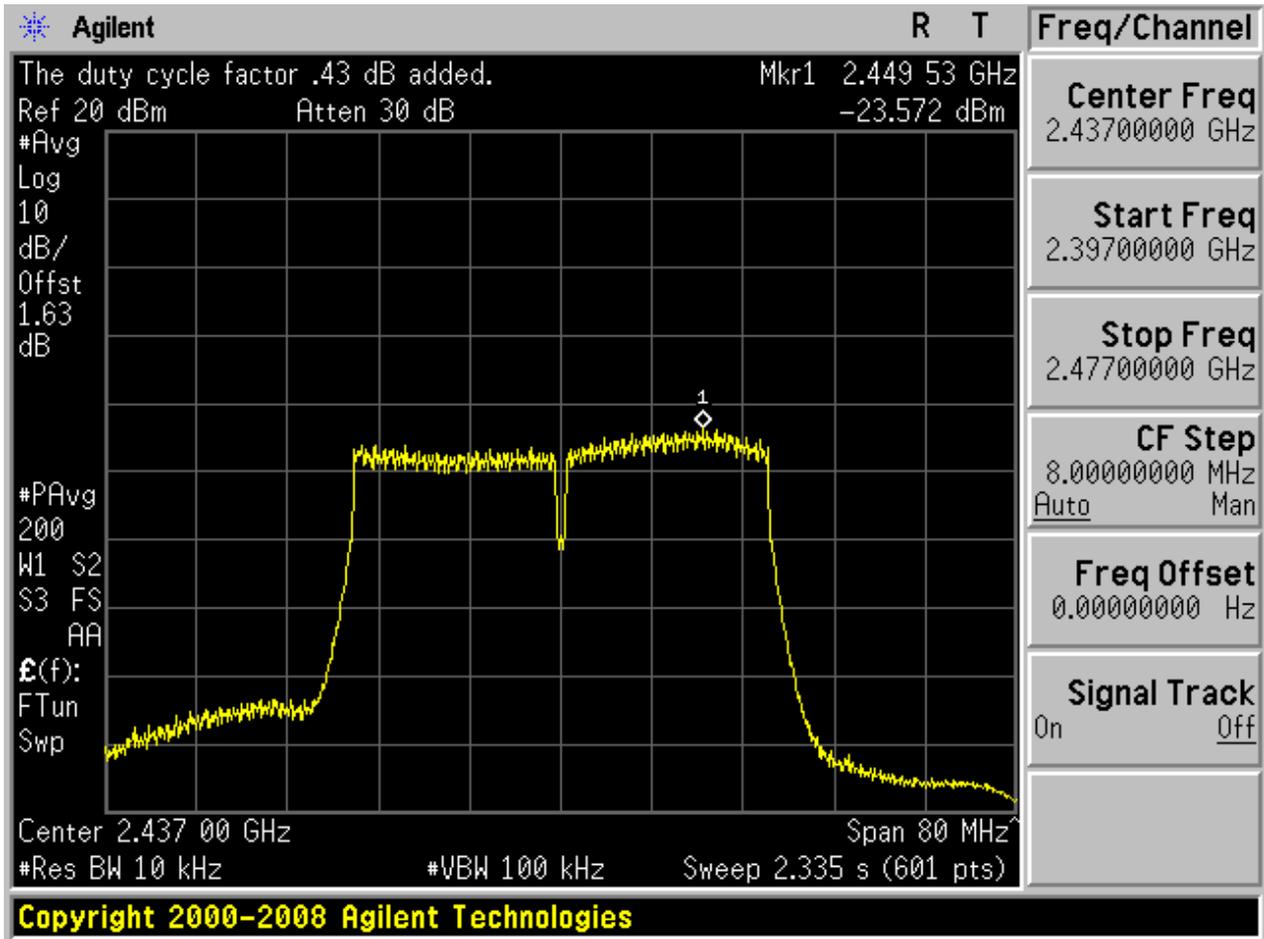


2.32 11N40m_L@Ant 2



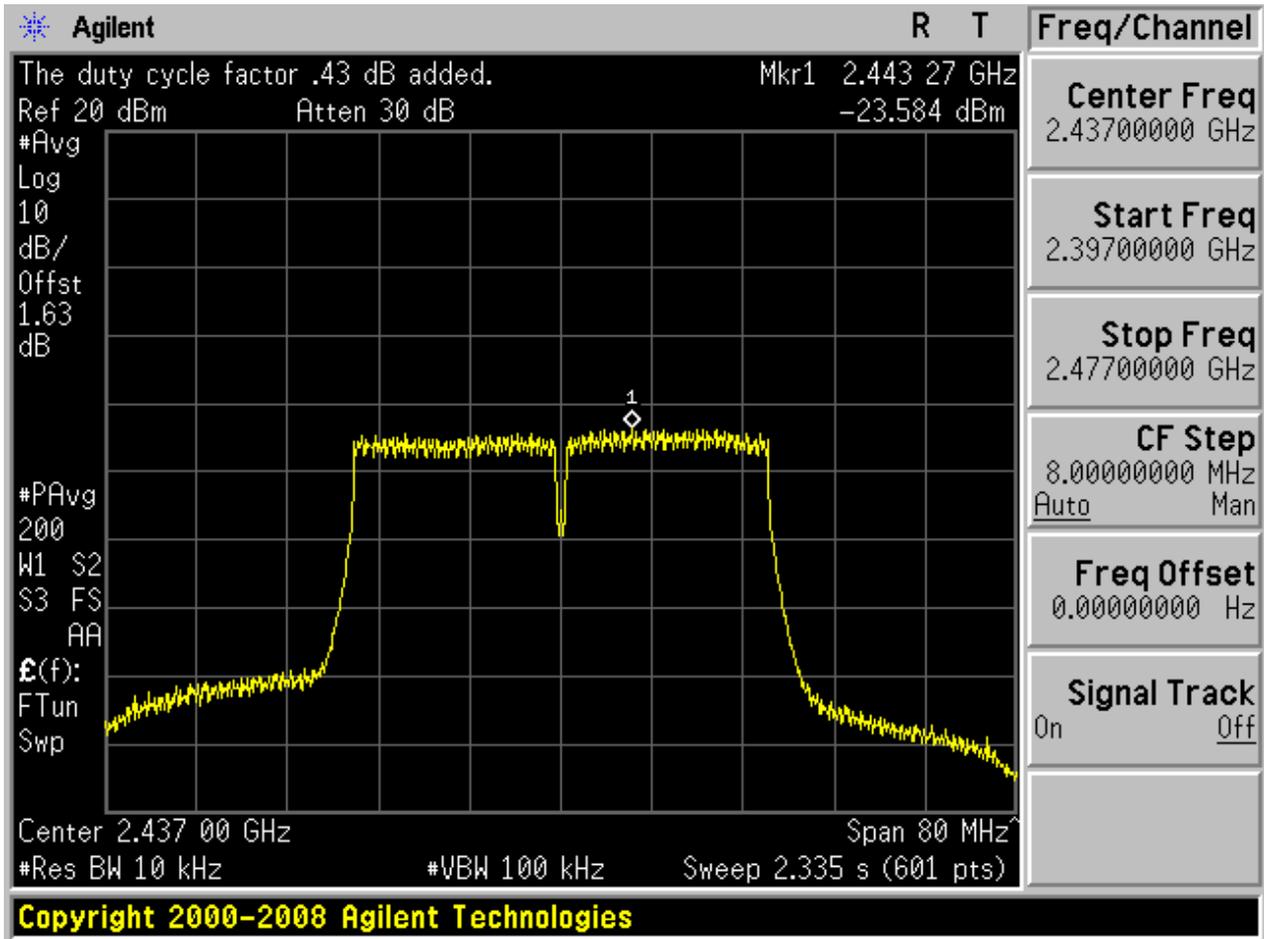


2.34 11N40m_M@Ant 1



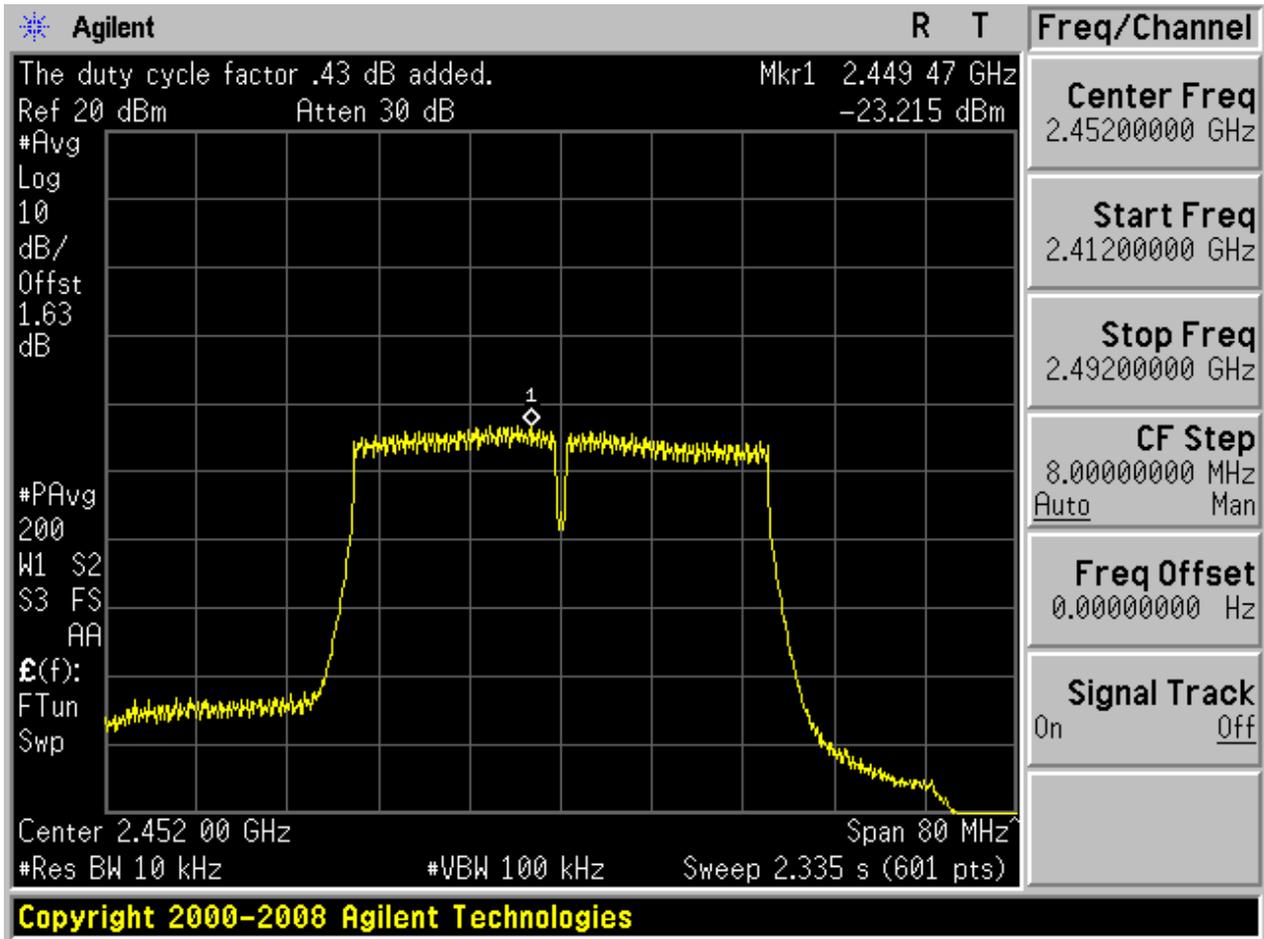


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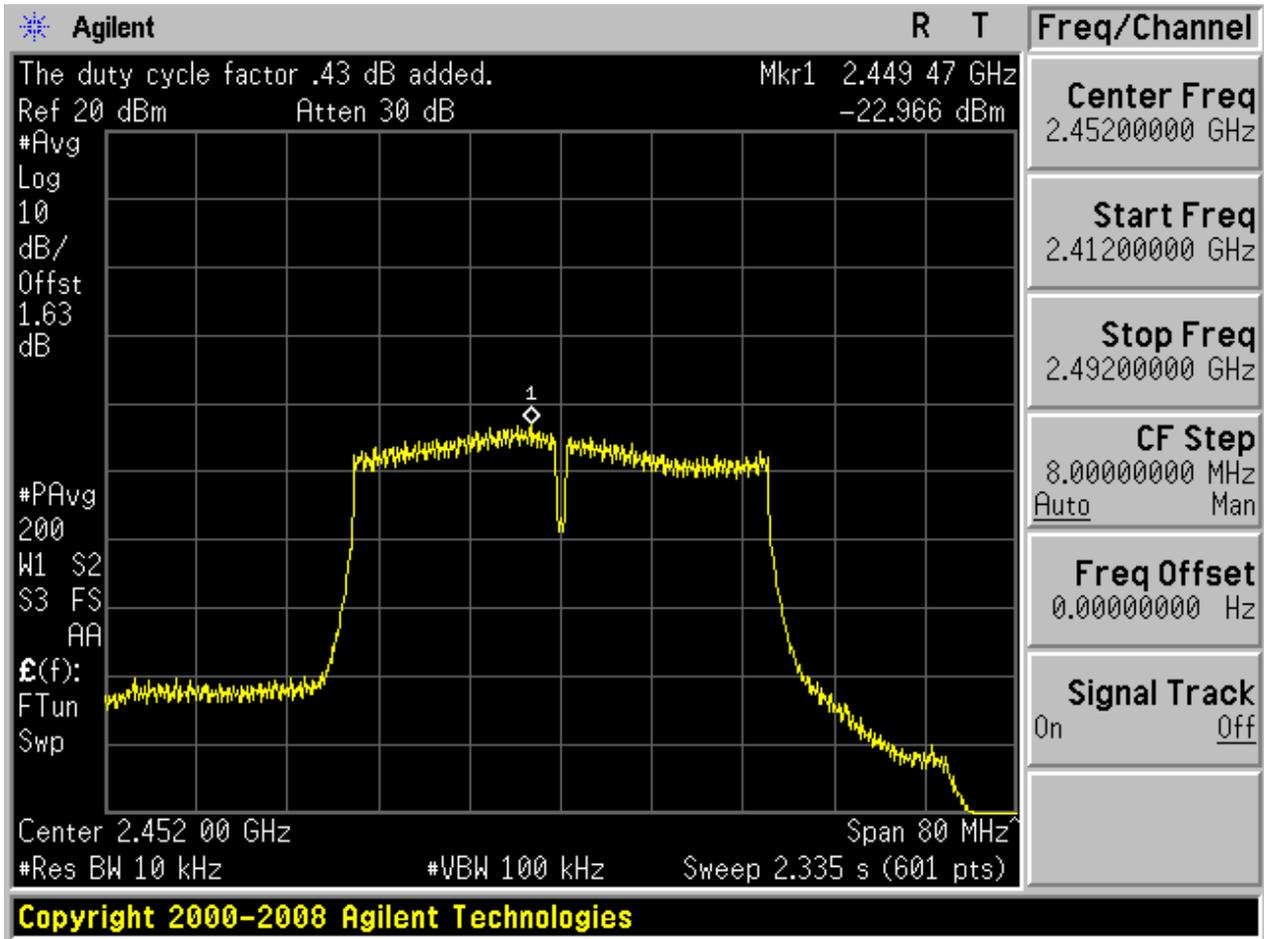


2.35 11N40m_H@Ant 1





2.36 11N40m_H@Ant 2





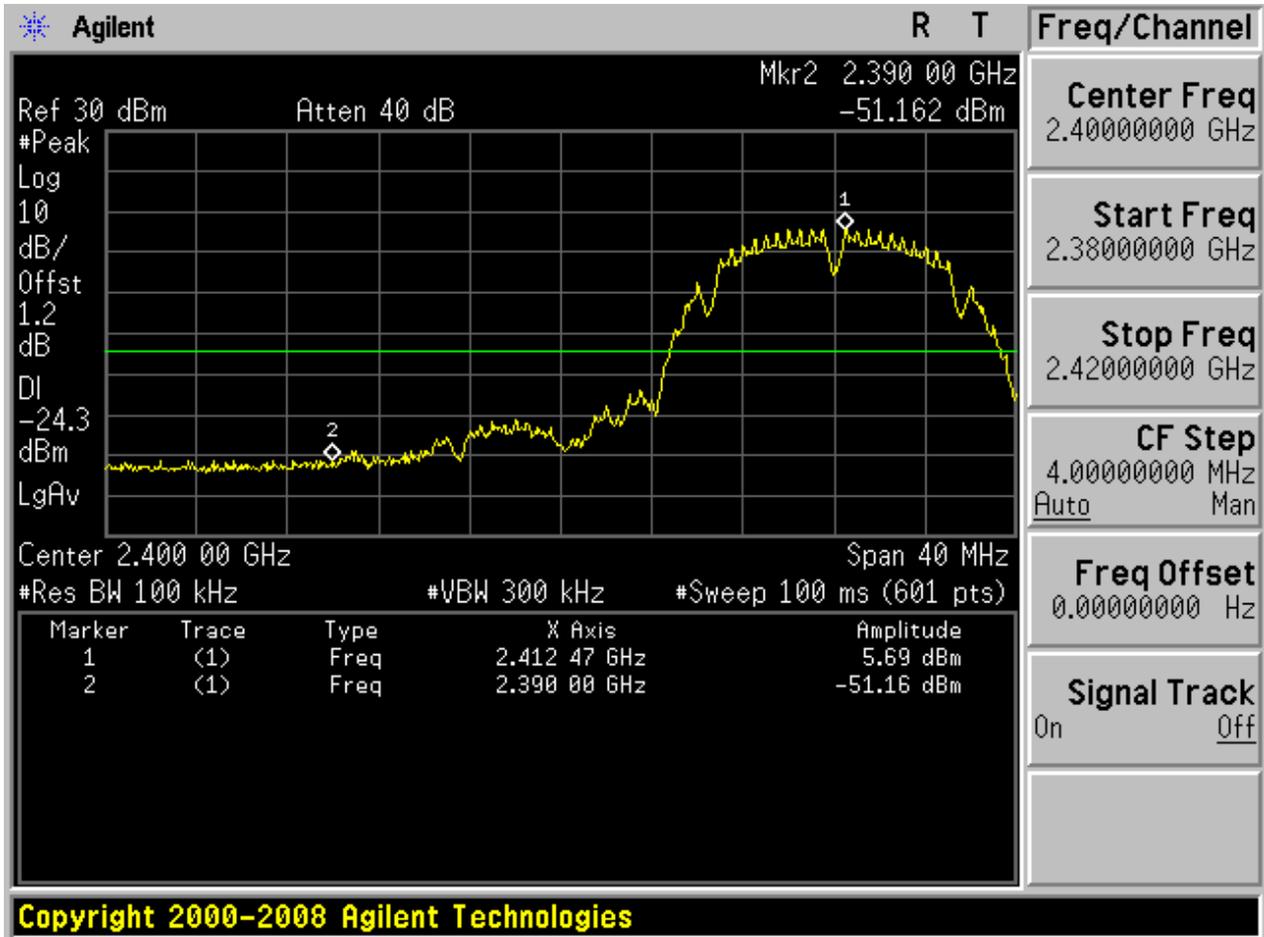
Appendix F: Band Edges Compliance

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Carrier Power[dBm]	Max.Spurious Level[dBm]	Verdict
11B	L	2412	Ant 1	5.69	-51.16	pass
11B	L	2412	Ant 2	5.52	-52.84	pass
11B	H	2462	Ant 1	5.48	-50.07	pass
11B	H	2462	Ant 2	4.29	-49.82	pass
11G	L	2412	Ant 1	0.68	-52.17	pass
11G	L	2412	Ant 2	0.66	-51.43	pass
11G	H	2462	Ant 1	0.64	-50.14	pass
11G	H	2462	Ant 2	0.73	-51.22	pass
11N20	L	2412	Ant 1	-0.24	-51.72	pass
11N20	L	2412	Ant 2	-0.46	-51.73	pass
11N20	H	2462	Ant 1	0.16	-50.80	pass
11N20	H	2462	Ant 2	-0.31	-51.16	pass
11N20m	L	2412	Ant 1	-1.68	-51.79	pass
11N20m	L	2412	Ant 2	-1.89	-50.51	pass
11N20m	H	2462	Ant 1	-1.82	-51.96	pass
11N20m	H	2462	Ant 2	-1.11	-49.98	pass
11N40	L	2422	Ant 1	-4.31	-50.36	pass
11N40	L	2422	Ant 2	-4.29	-50.74	pass
11N40	H	2452	Ant 1	-4.07	-51.62	pass
11N40	H	2452	Ant 2	-5.70	-51.01	pass
11N40m	L	2422	Ant 1	-4.23	-50.42	pass
11N40m	L	2422	Ant 2	-4.49	-50.22	pass
11N40m	H	2452	Ant 1	-4.33	-50.37	pass
11N40m	H	2452	Ant 2	-6.13	-49.85	pass

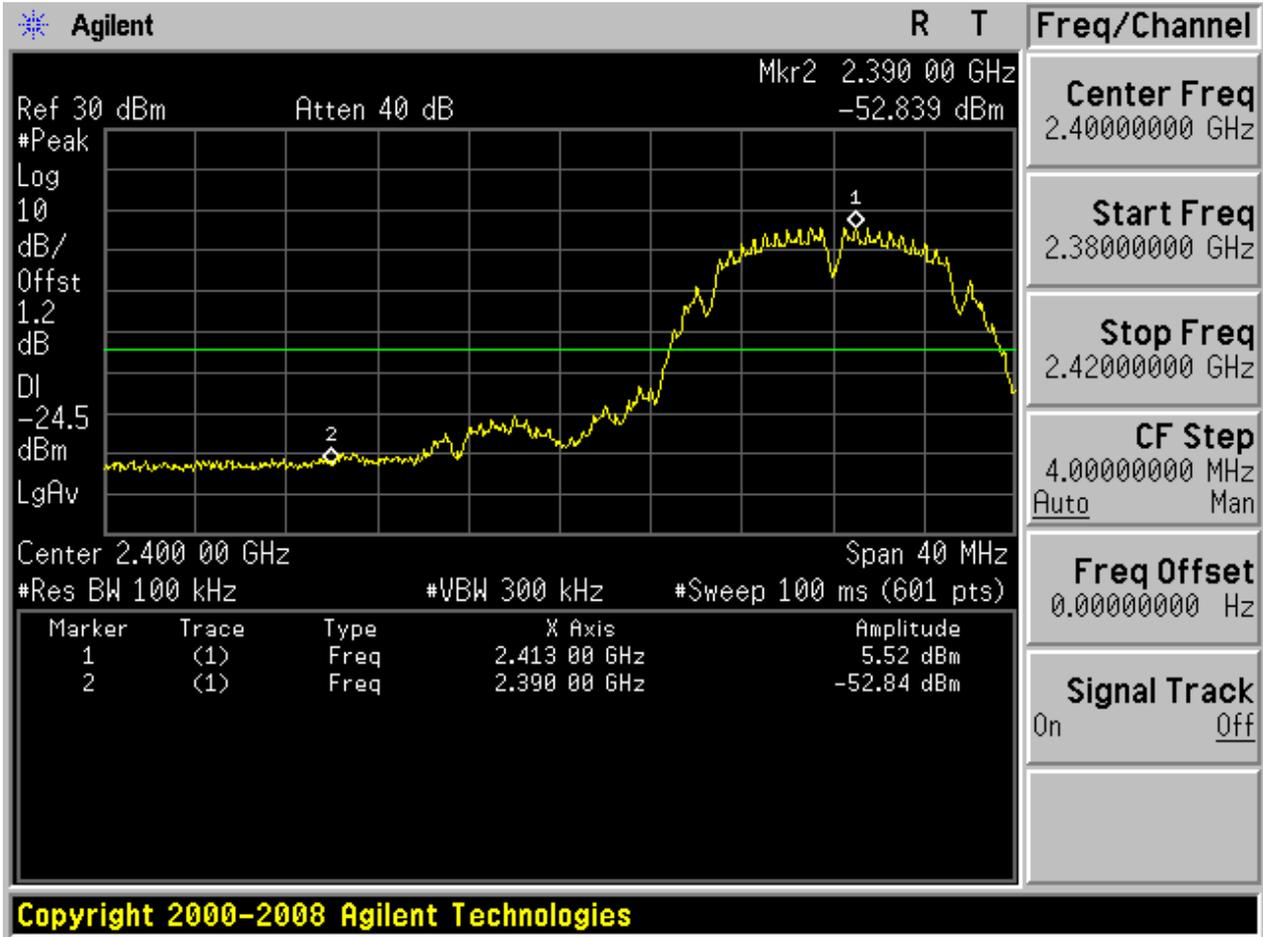
Part II - Test Plots

2.1 11B_L@Ant 1



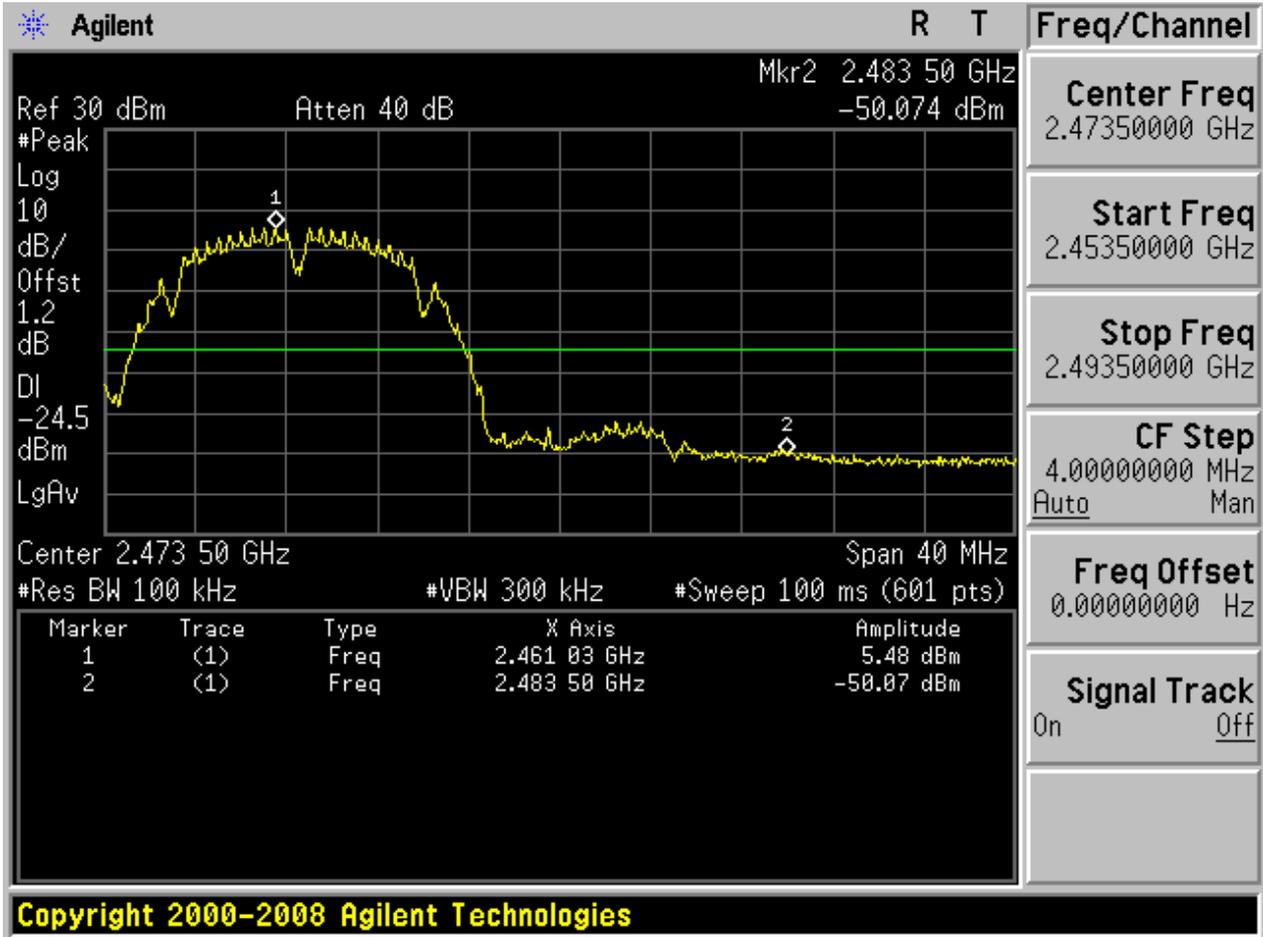


2.2 11B_L@Ant 2

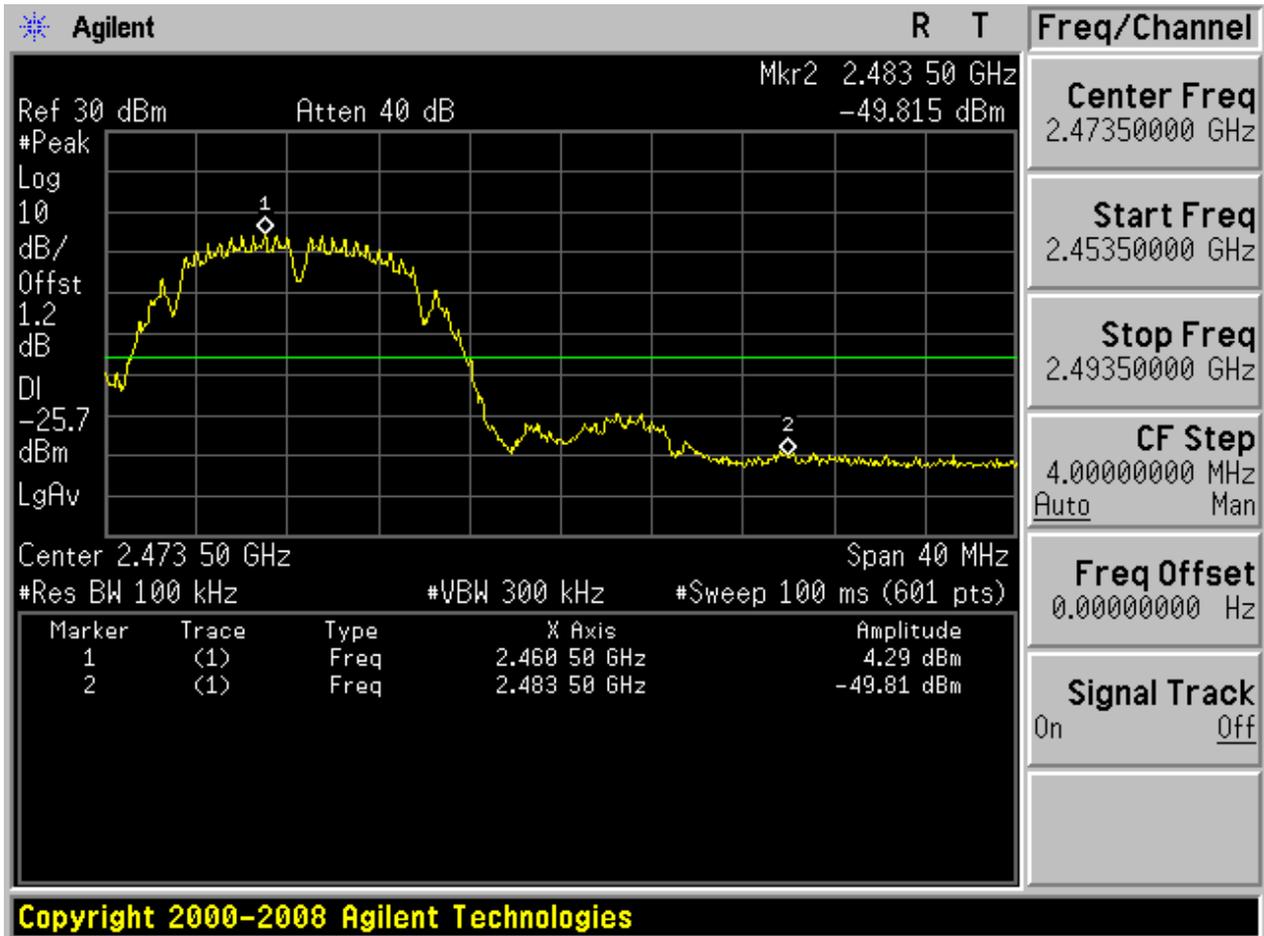




2.3 11B_H@Ant 1

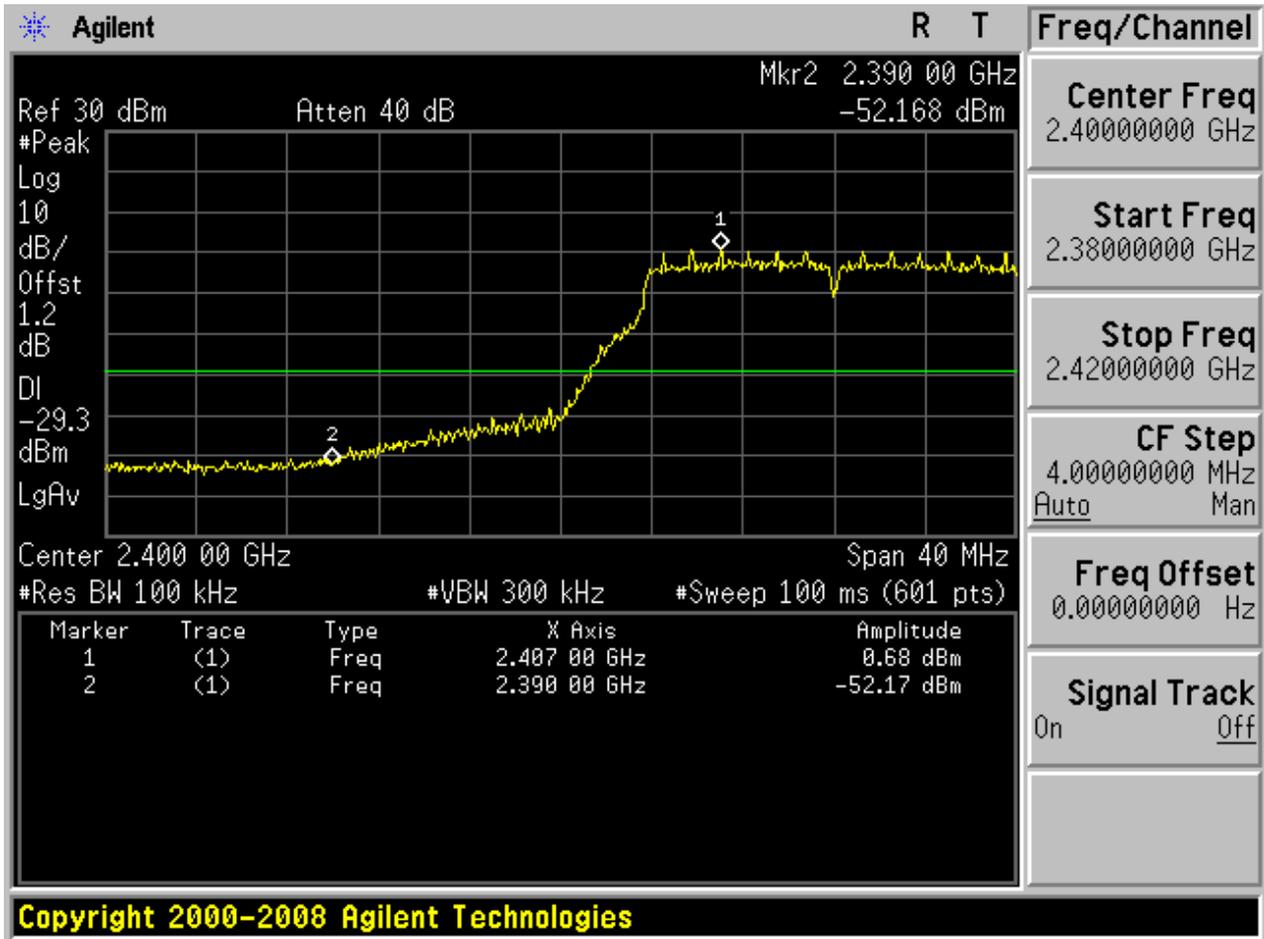


2.4 11B_H@Ant 2



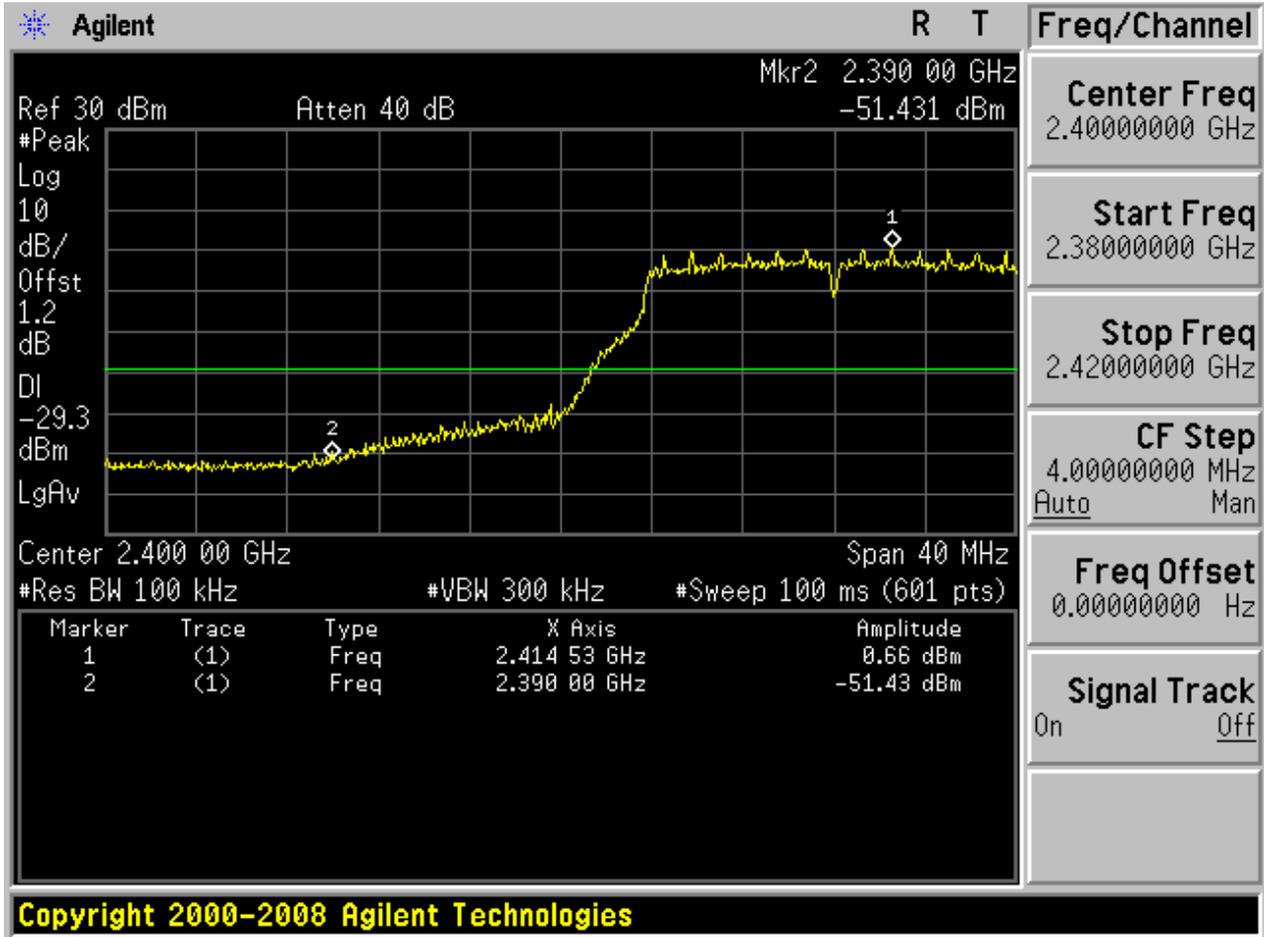


2.5 11G_L@Ant 1



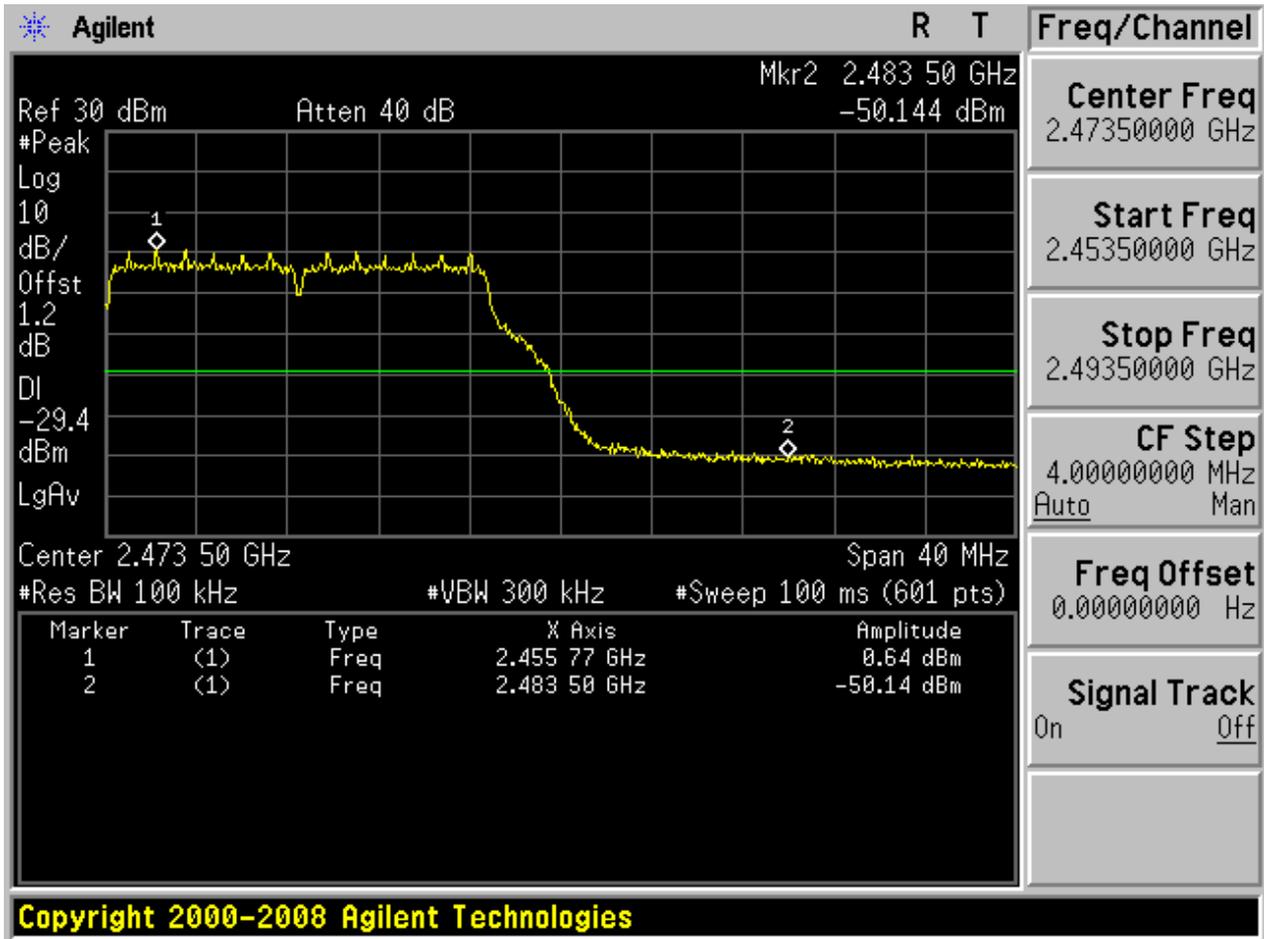


2.6 11G_L@Ant 2



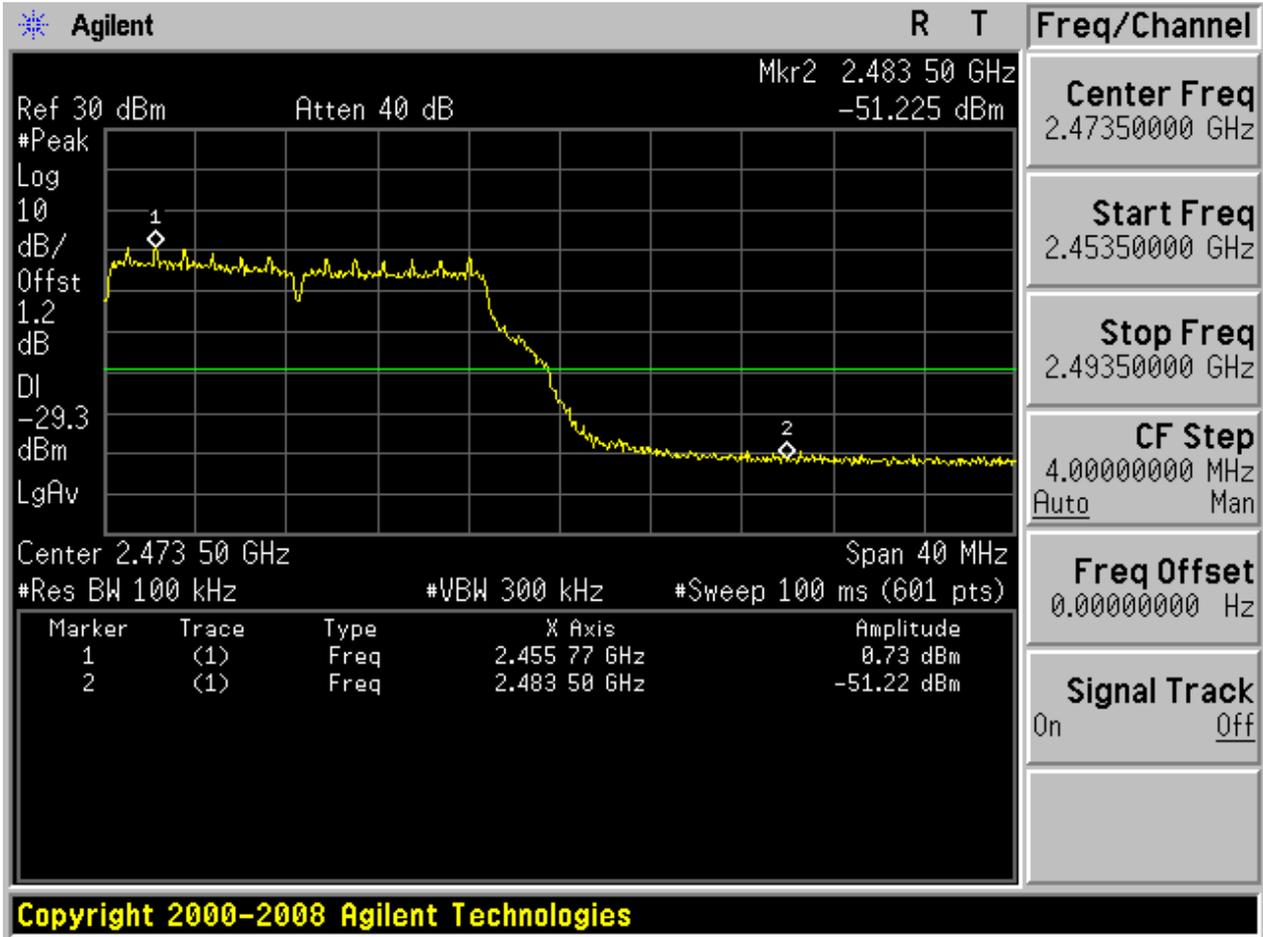


2.7 11G_H@Ant 1



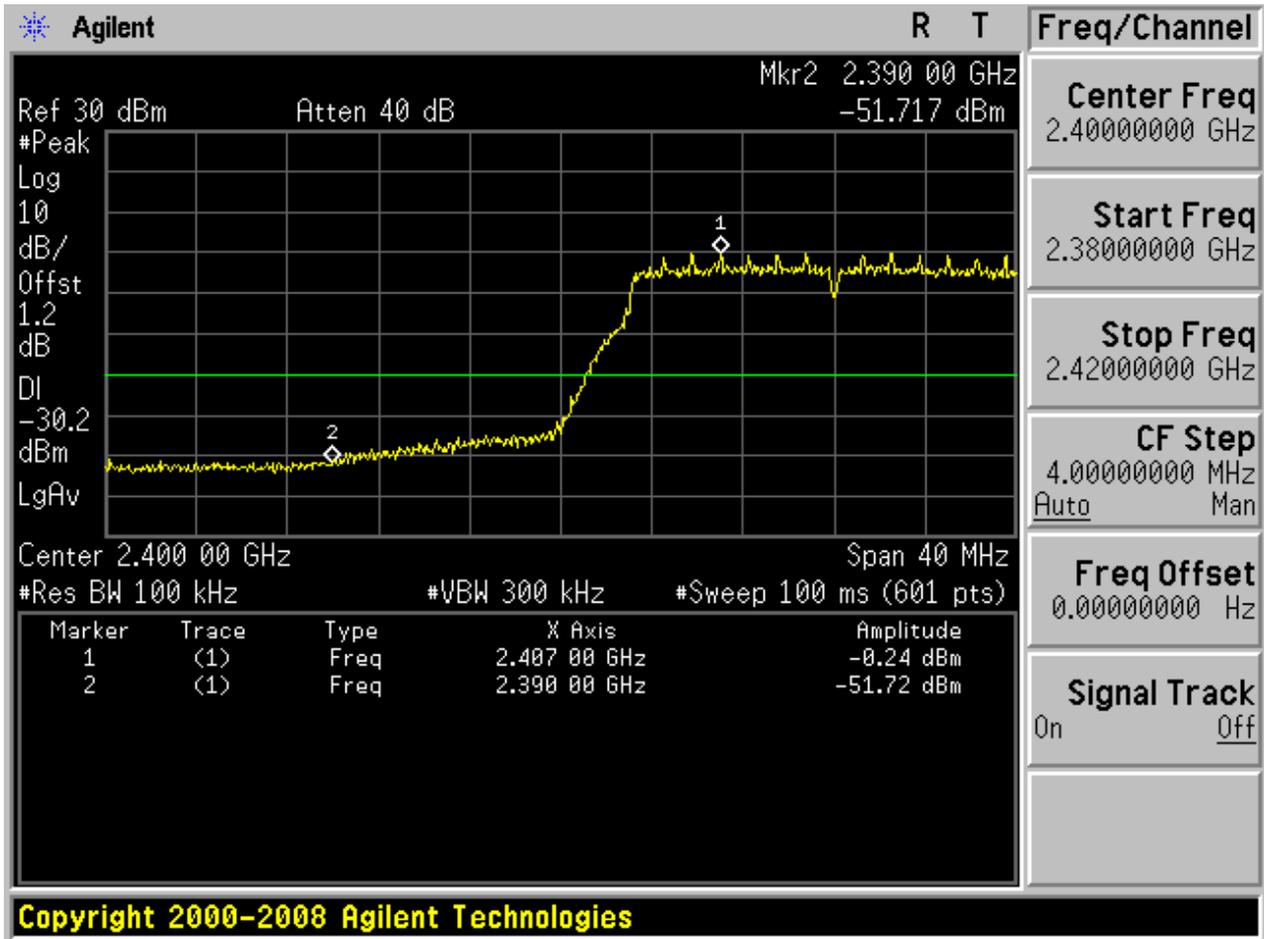


2.8 11G_H@Ant 2



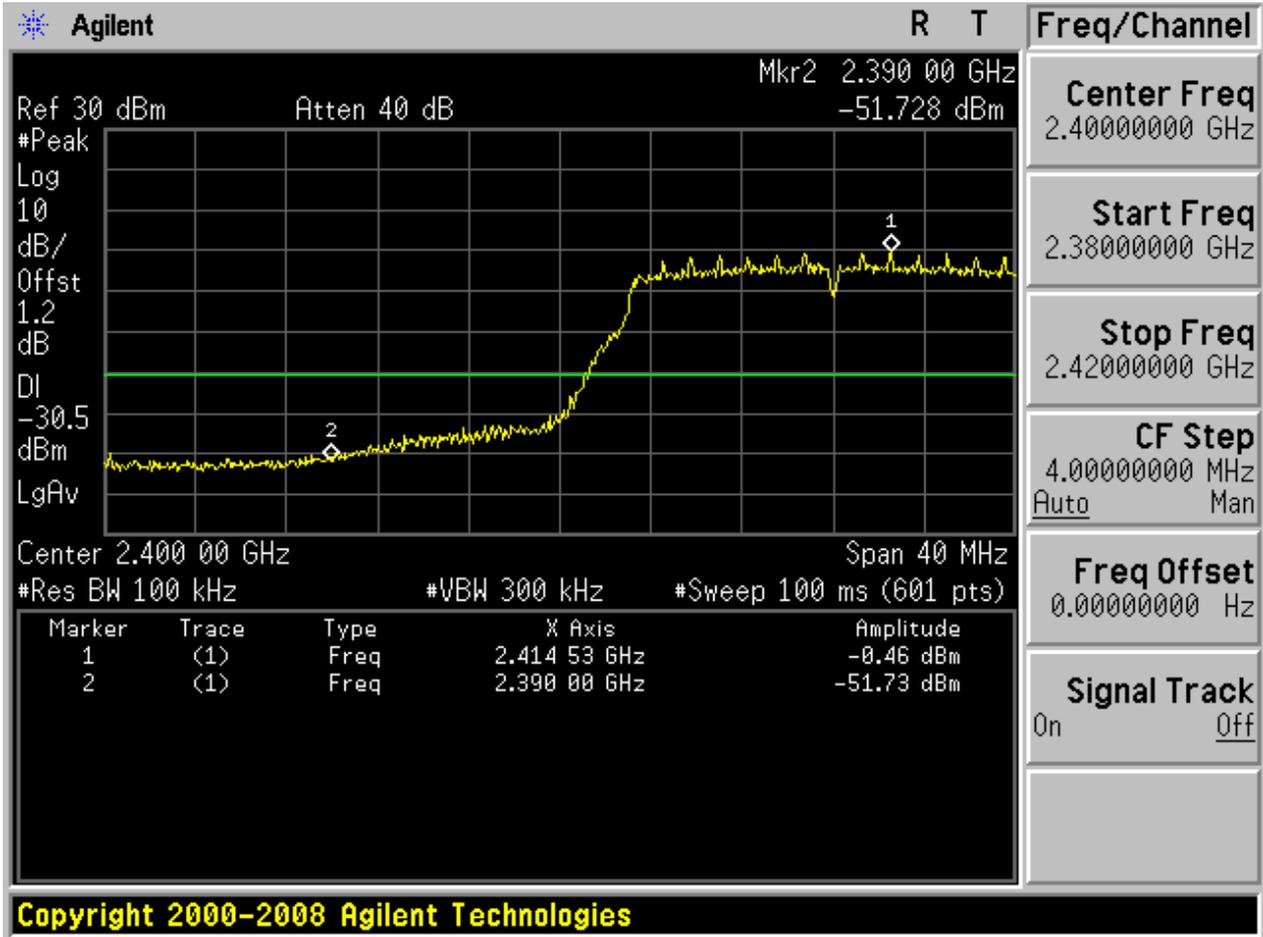


2.9 11N20_L@Ant 1

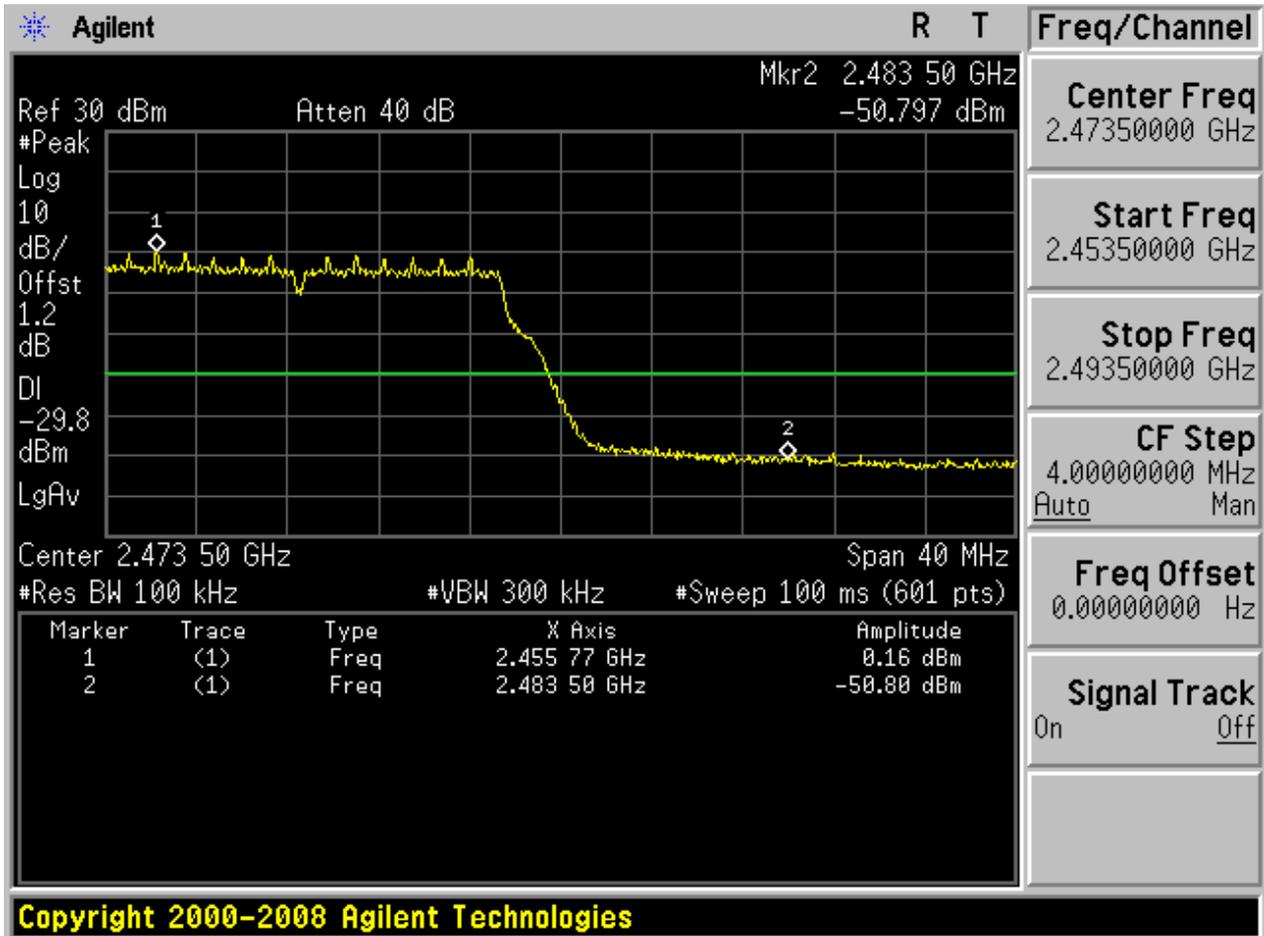




2.10 11N20_L@Ant 2

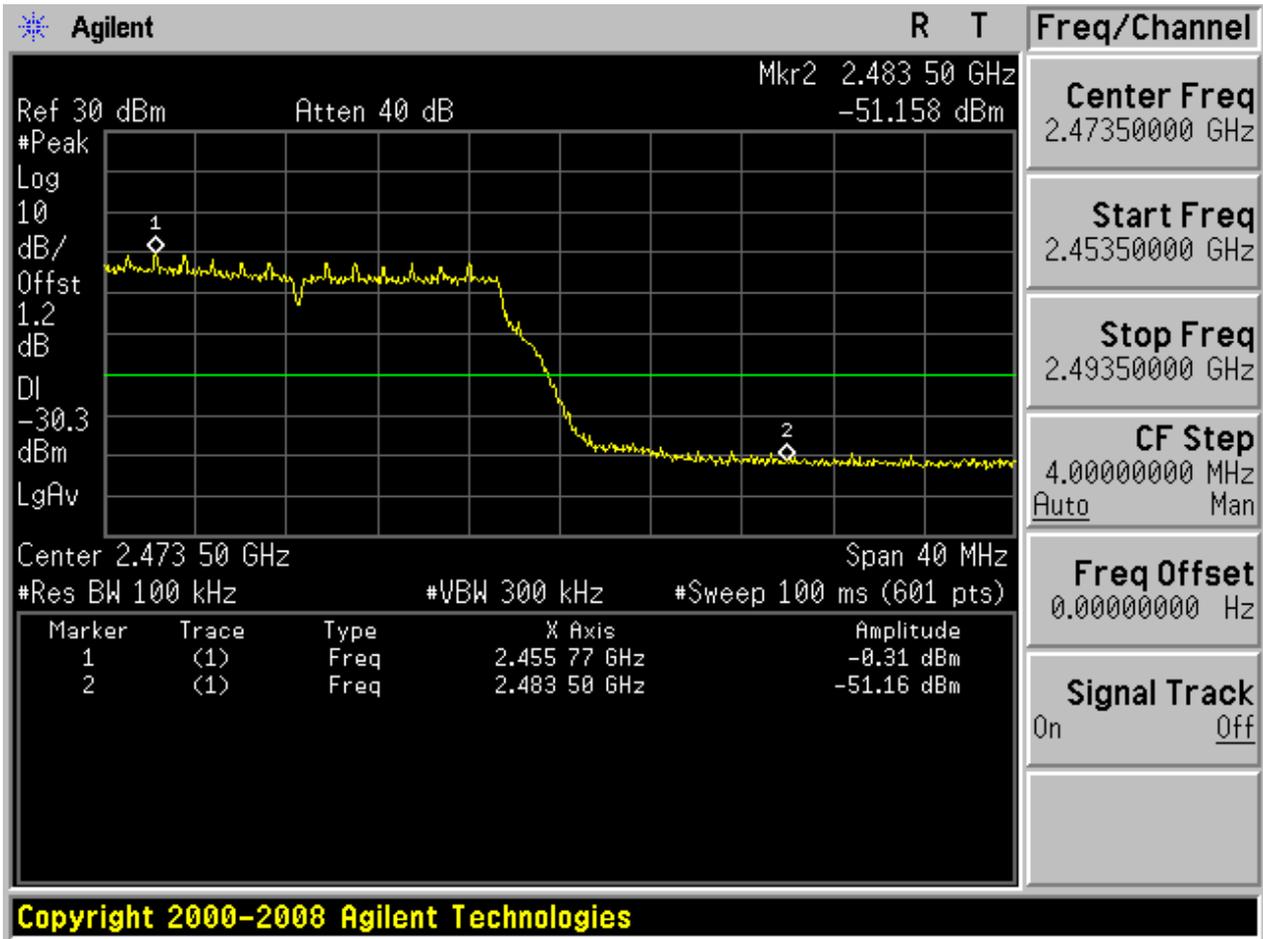


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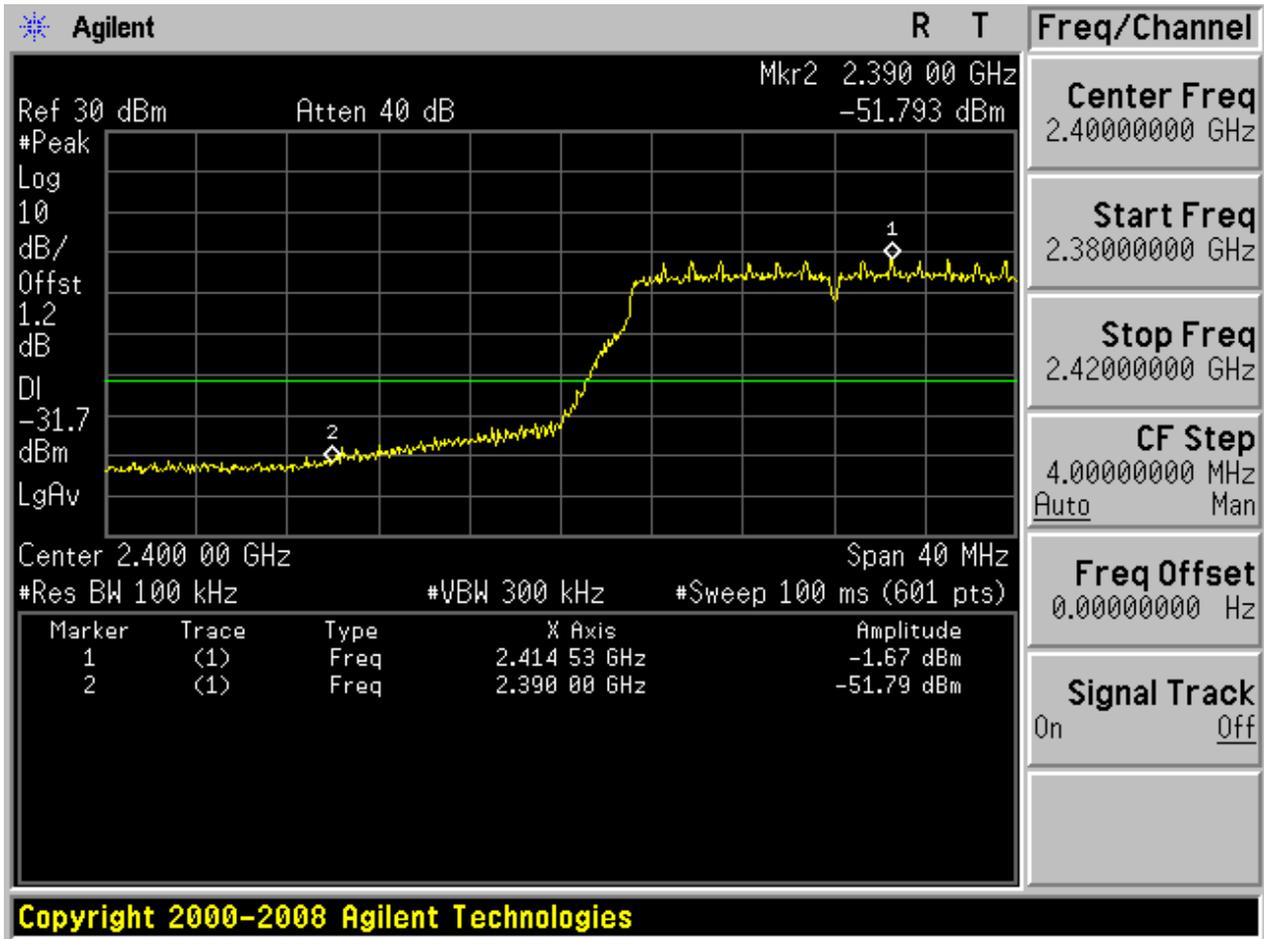


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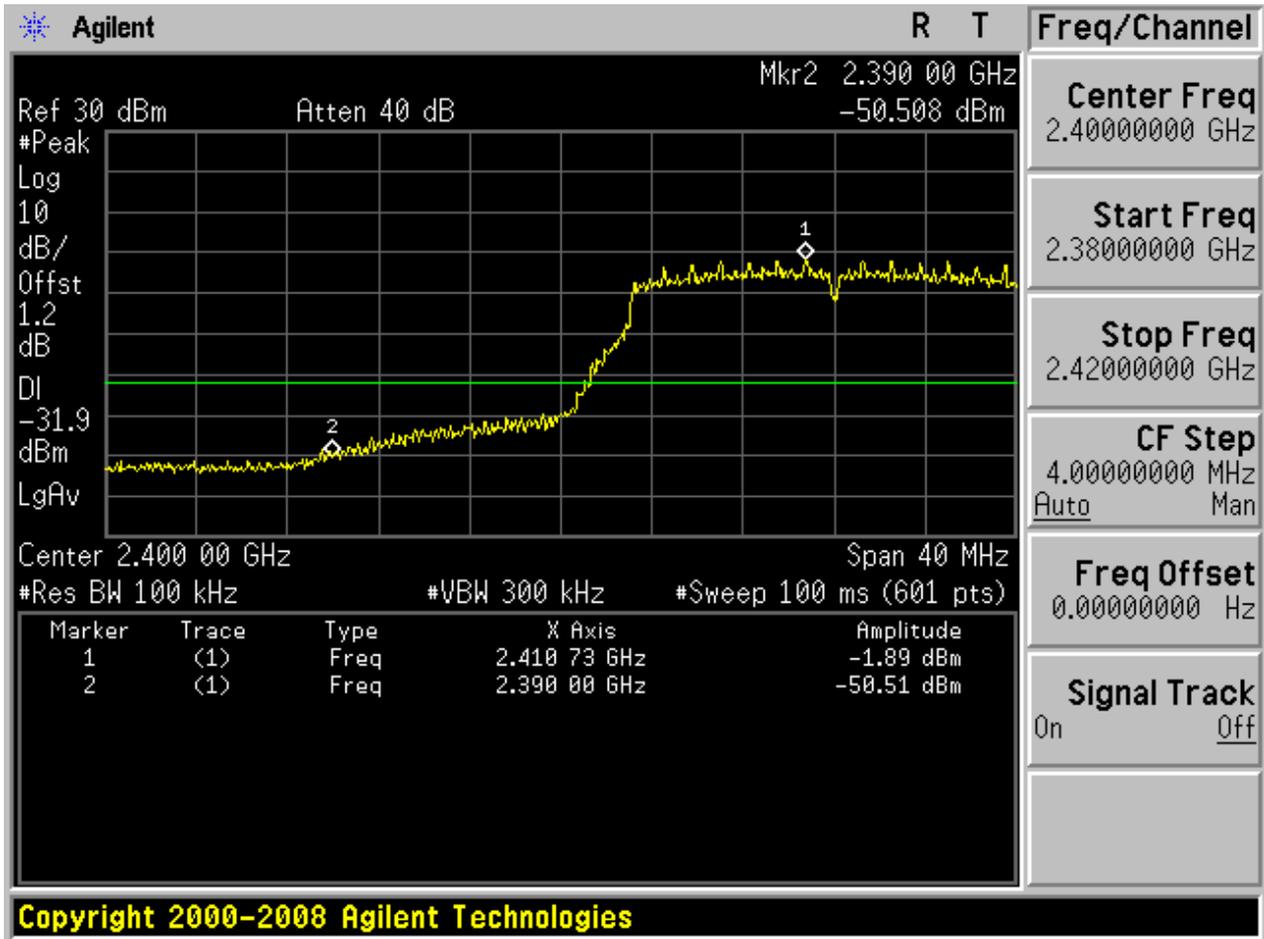


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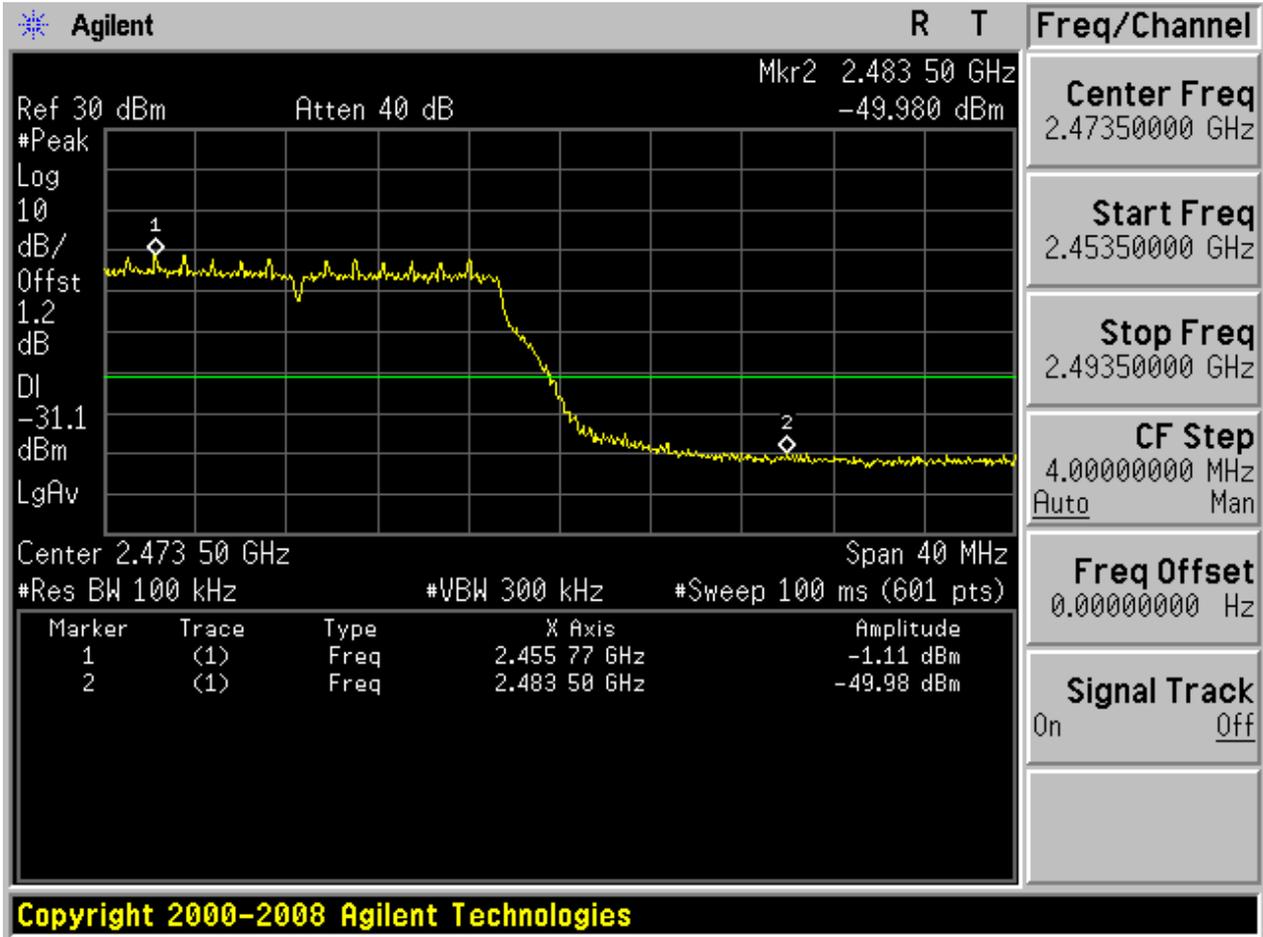


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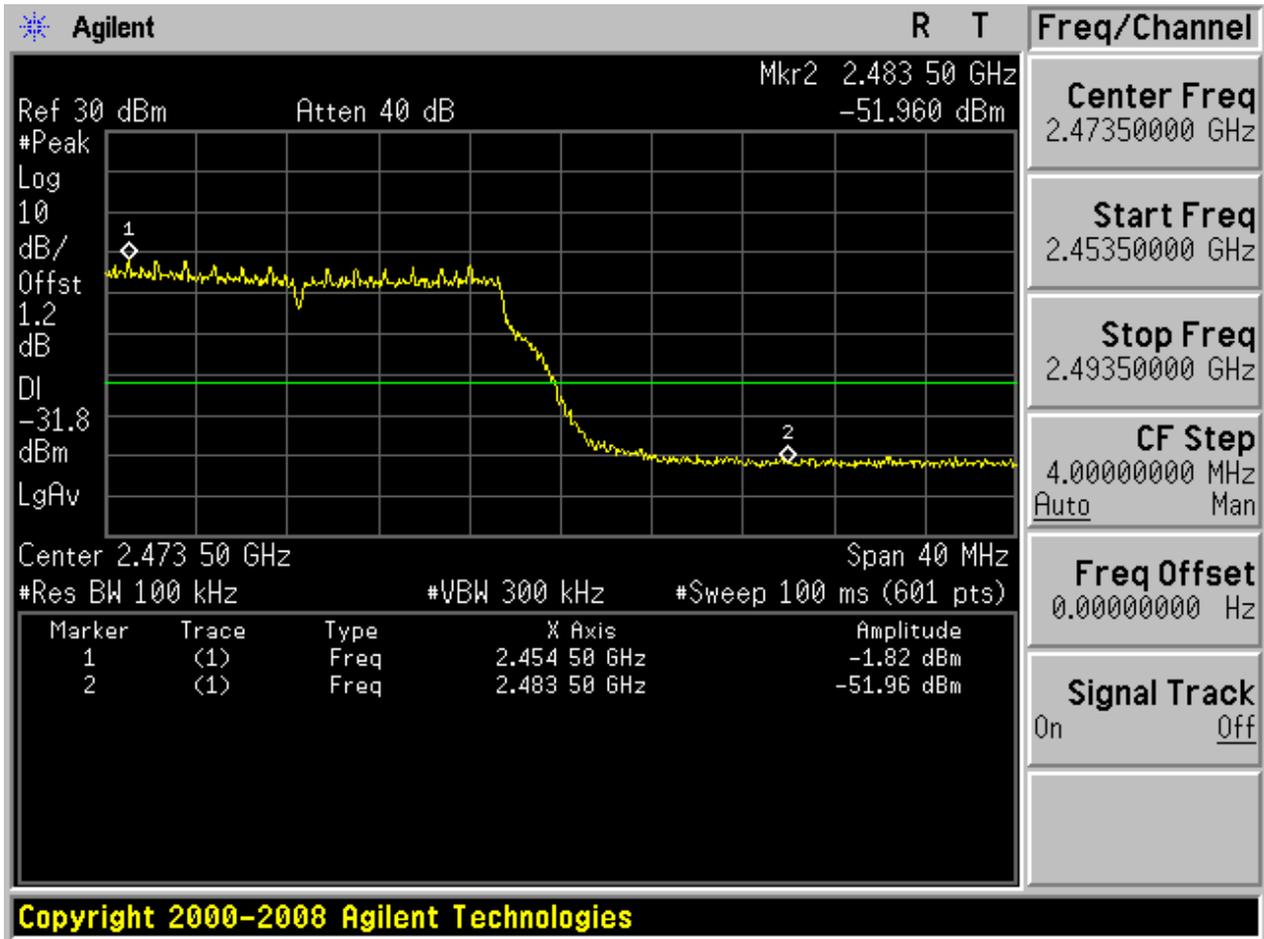


2.15 11N20m_H@Ant 1



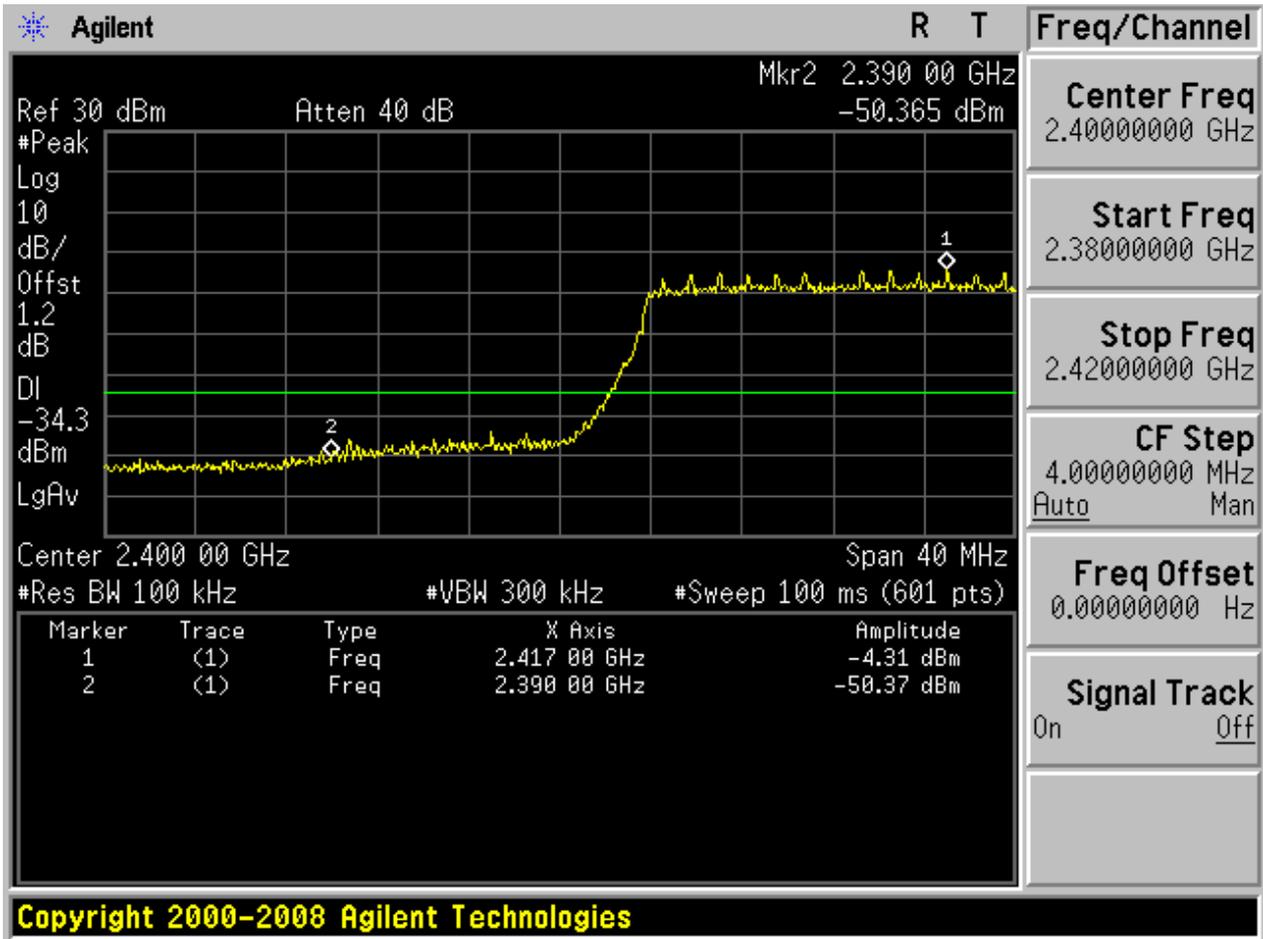


2.16 11N20m_H@Ant 2



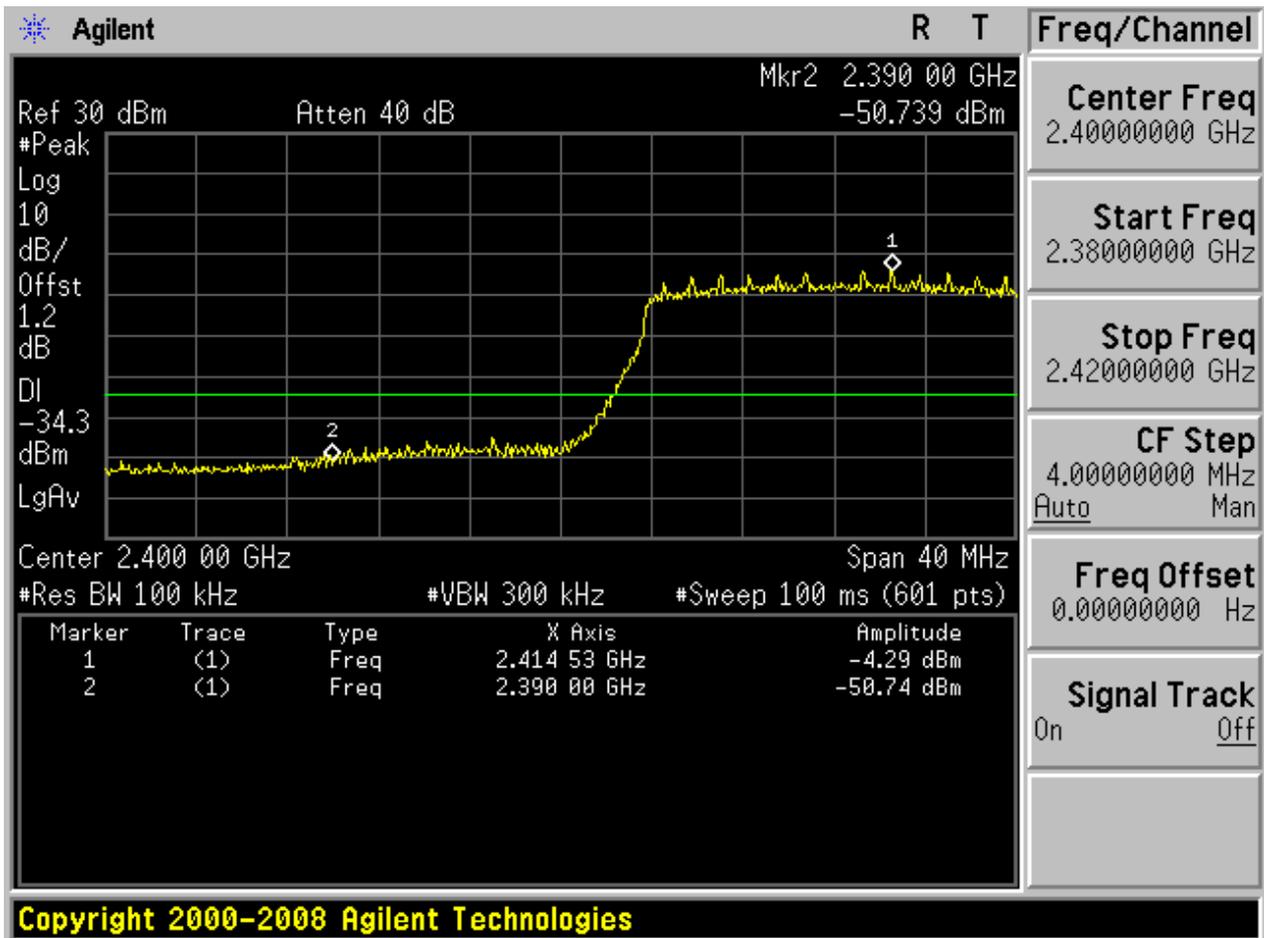


2.17 11N40_L@Ant 1



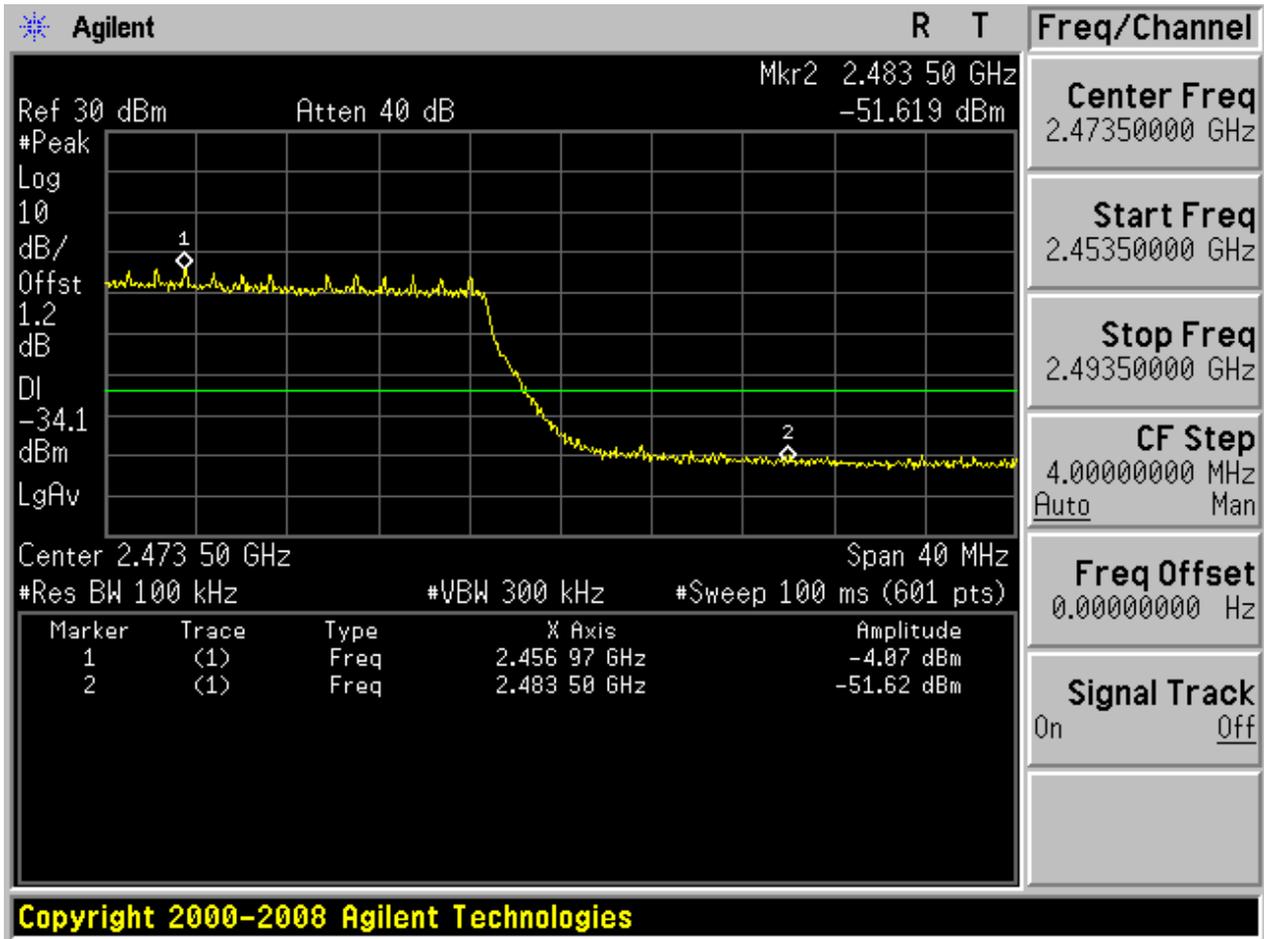


2.18 11N40_L@Ant 2



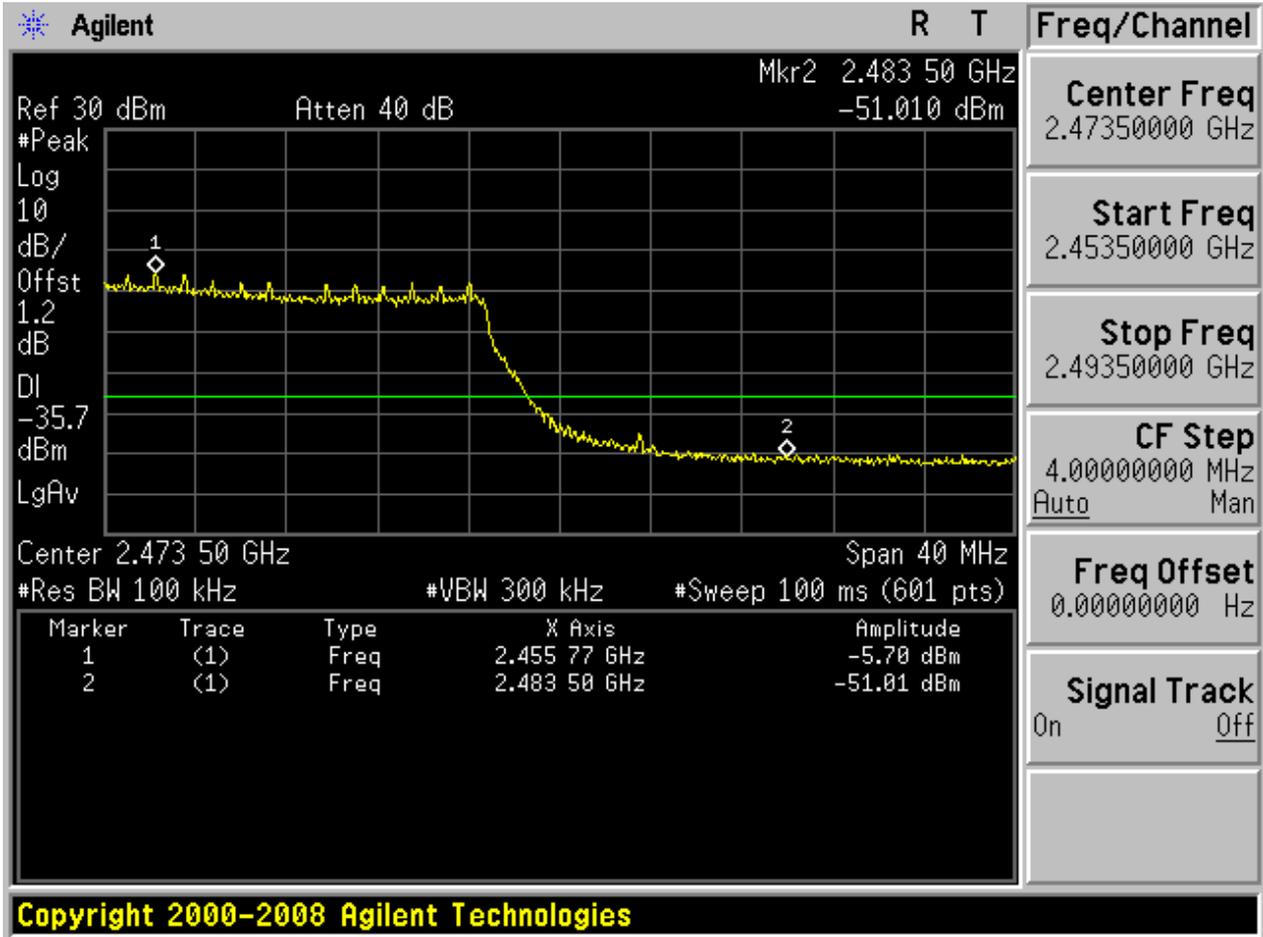


2.19 11N40_H@Ant 1



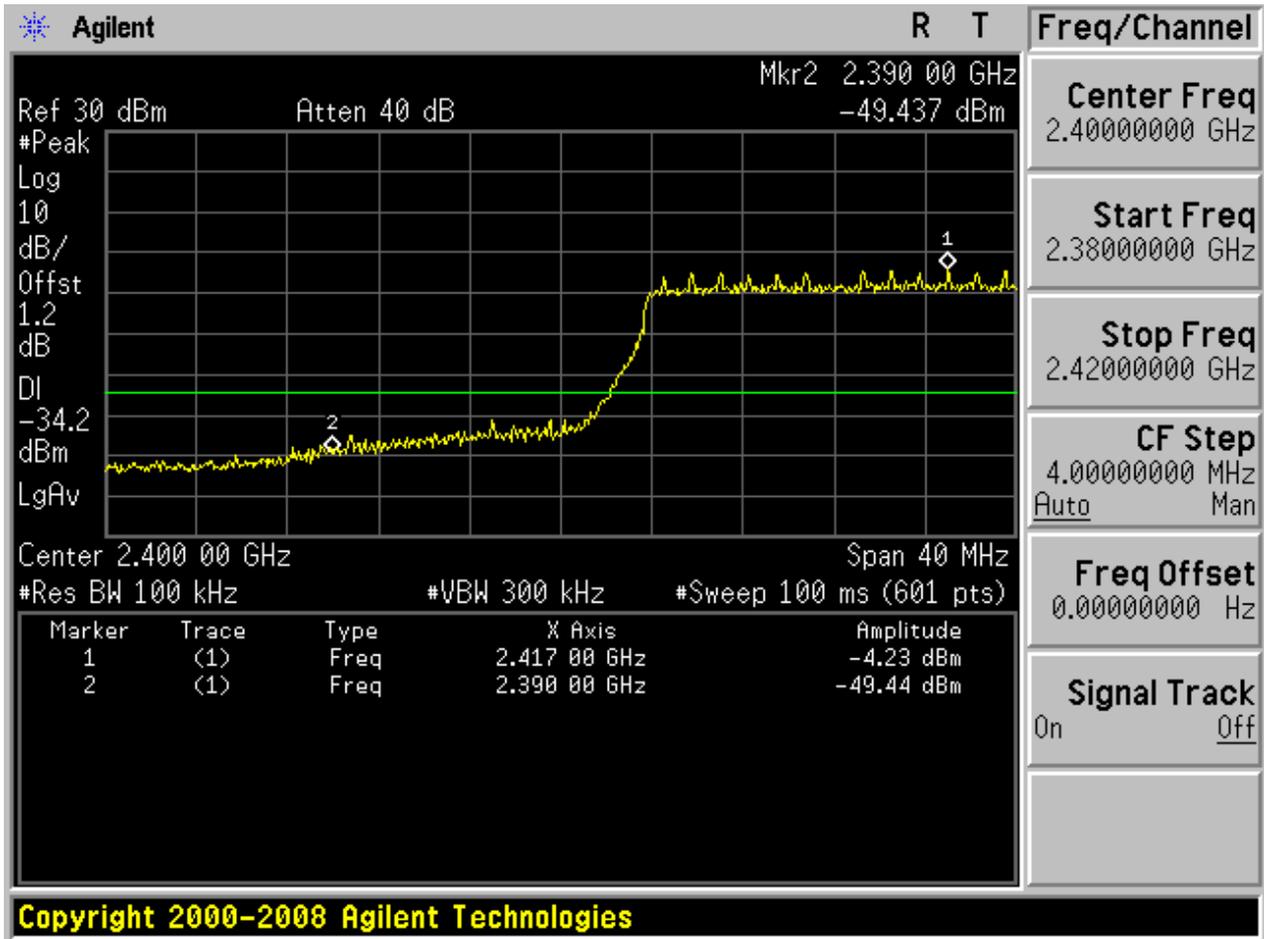


2.20 11N40_H@Ant 2



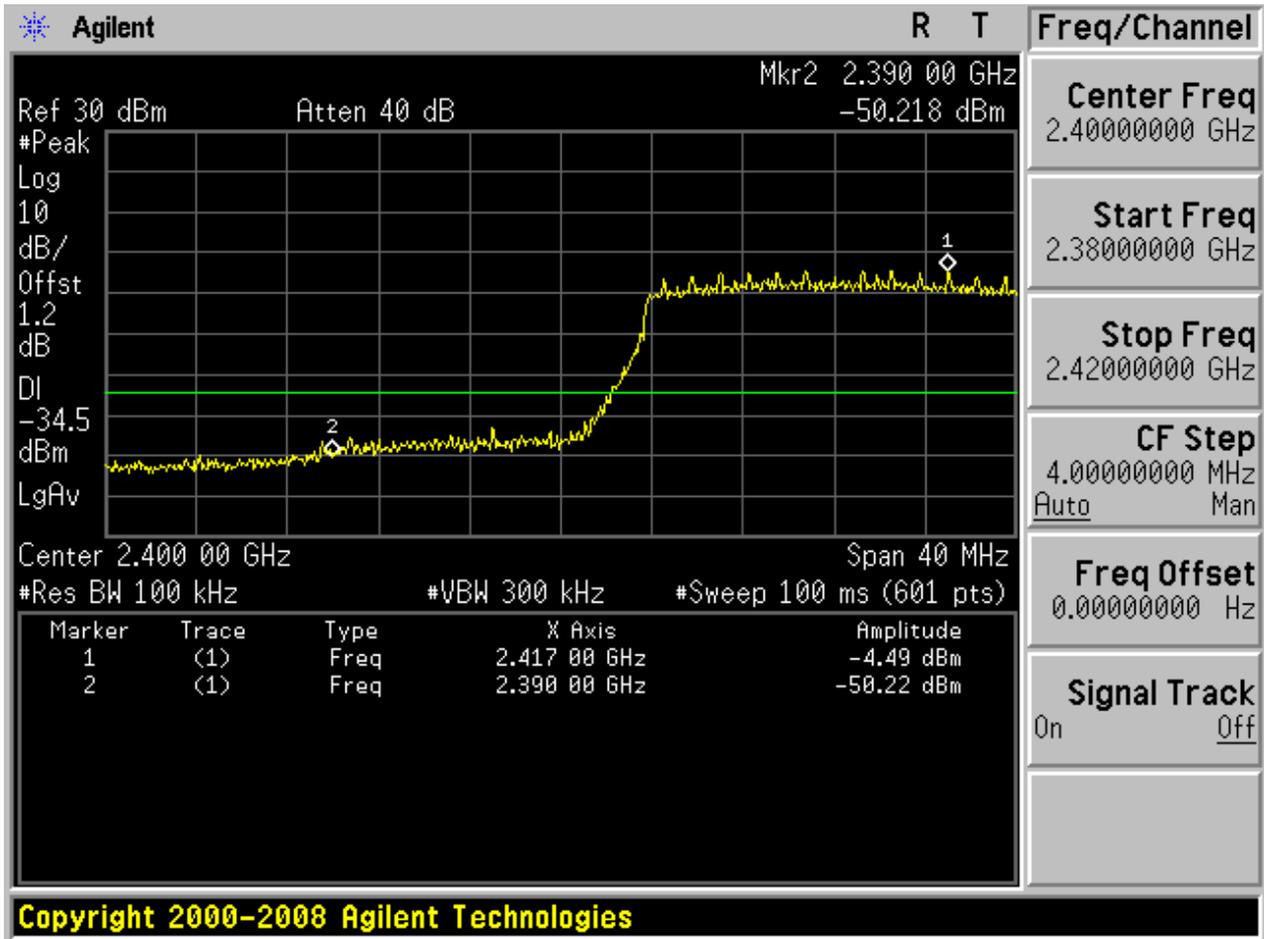


2.21 11N40m_L@Ant 1

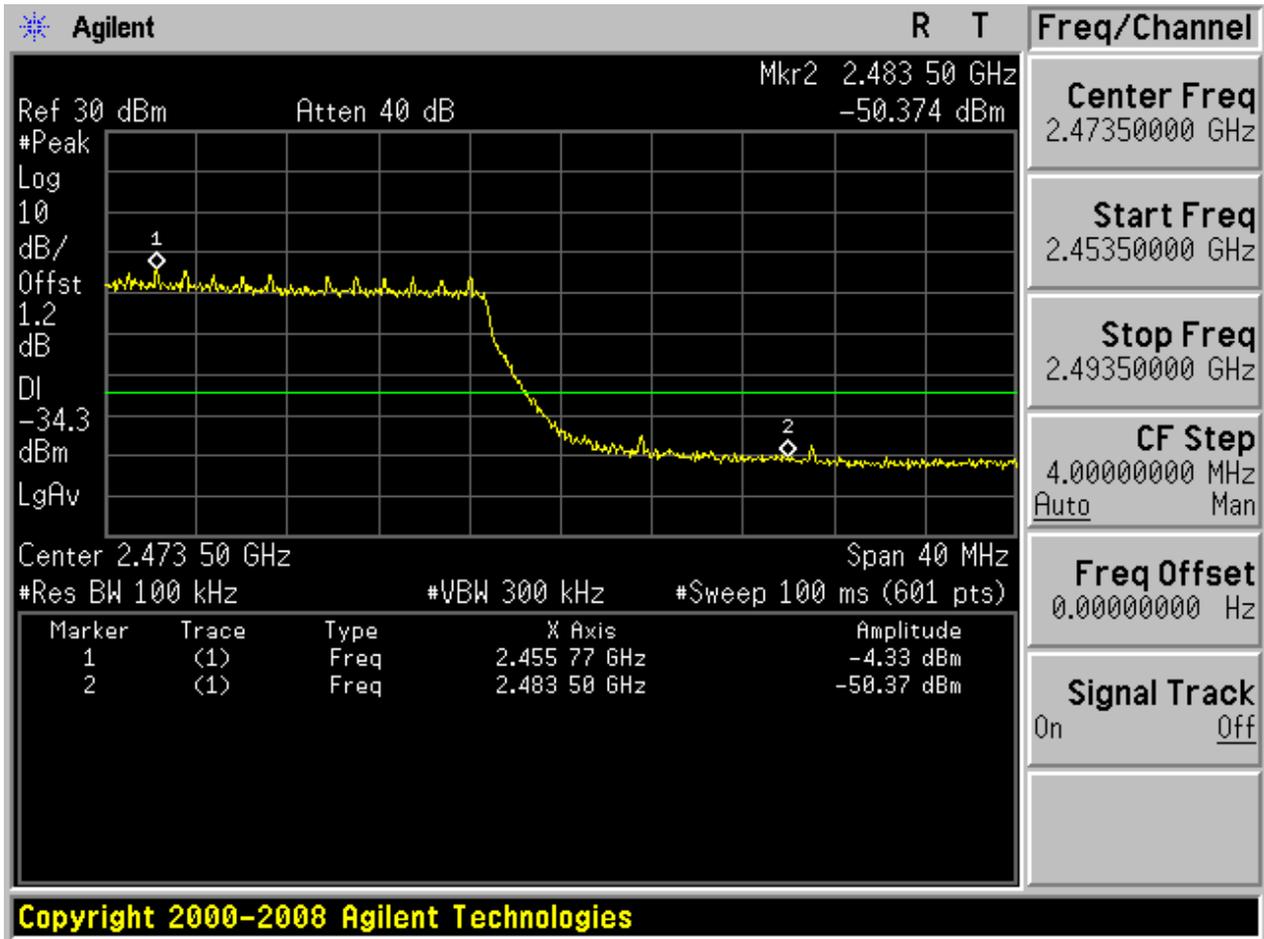




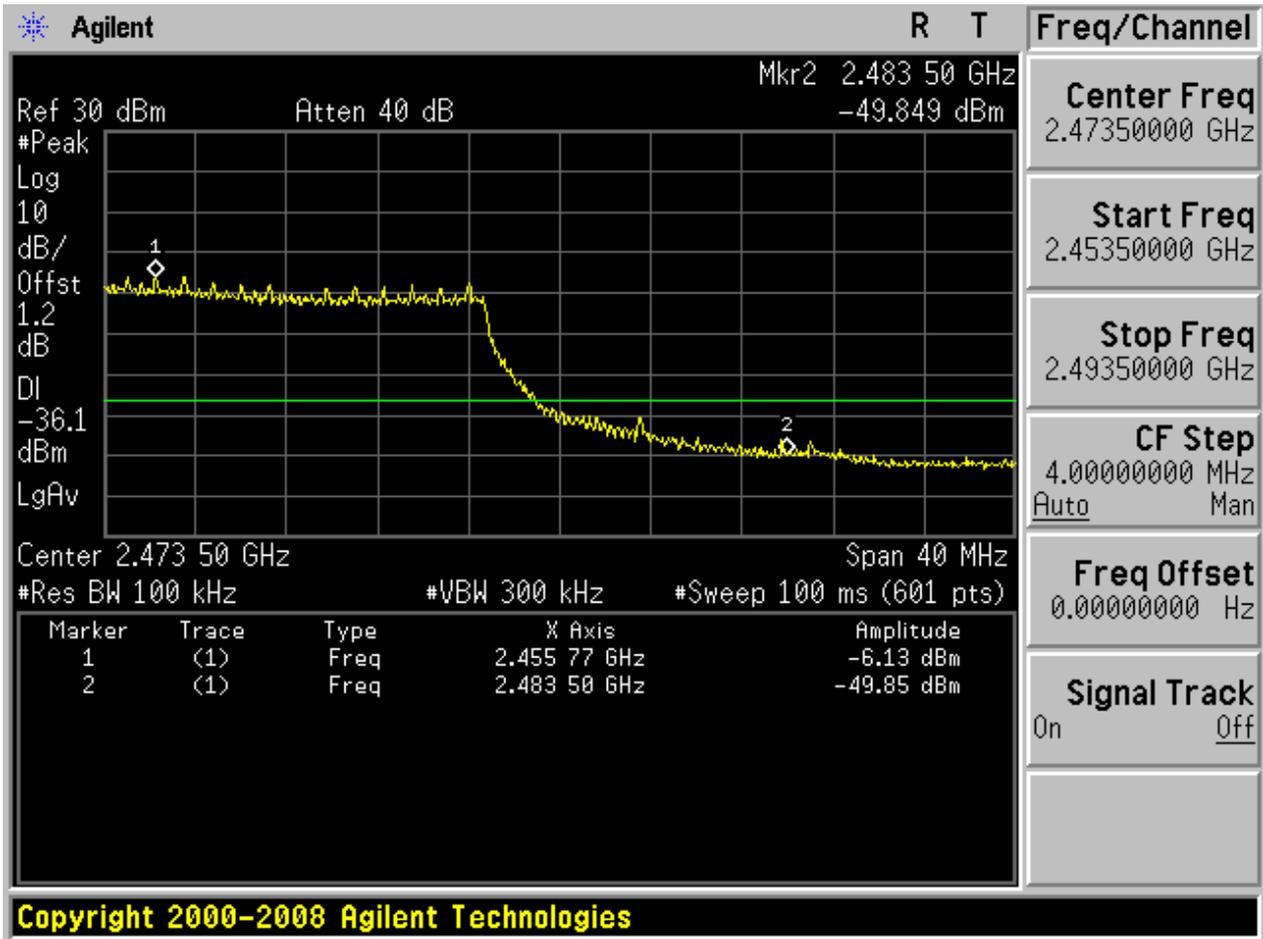
2.22 11N40m_L@Ant 2



2.23 11N40m_H@Ant 1



2.24 11N40m_H@Ant 2





Appendix G: Unwanted Emissions into Non-Restricted Frequency

Bands

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

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

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

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

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Pref[dBm]	Puw[dBm]	Verdict
11B	L	2412	Ant 1	6.04	<limit	pass
11B	L	2412	Ant 2	5.65	<limit	pass
11B	M	2437	Ant 1	3.91	<limit	pass
11B	M	2437	Ant 2	3.84	<limit	pass
11B	H	2462	Ant 1	5.27	<limit	pass
11B	H	2462	Ant 2	4.20	<limit	pass
11G	L	2412	Ant 1	1.08	<limit	pass
11G	L	2412	Ant 2	1.10	<limit	pass
11G	M	2437	Ant 1	0.88	<limit	pass
11G	M	2437	Ant 2	-0.19	<limit	pass
11G	H	2462	Ant 1	0.61	<limit	pass
11G	H	2462	Ant 2	1.17	<limit	pass
11N20	L	2412	Ant 1	-0.02	<limit	pass
11N20	L	2412	Ant 2	0.04	<limit	pass
11N20	M	2437	Ant 1	-0.38	<limit	pass
11N20	M	2437	Ant 2	-1.21	<limit	pass
11N20	H	2462	Ant 1	-0.32	<limit	pass



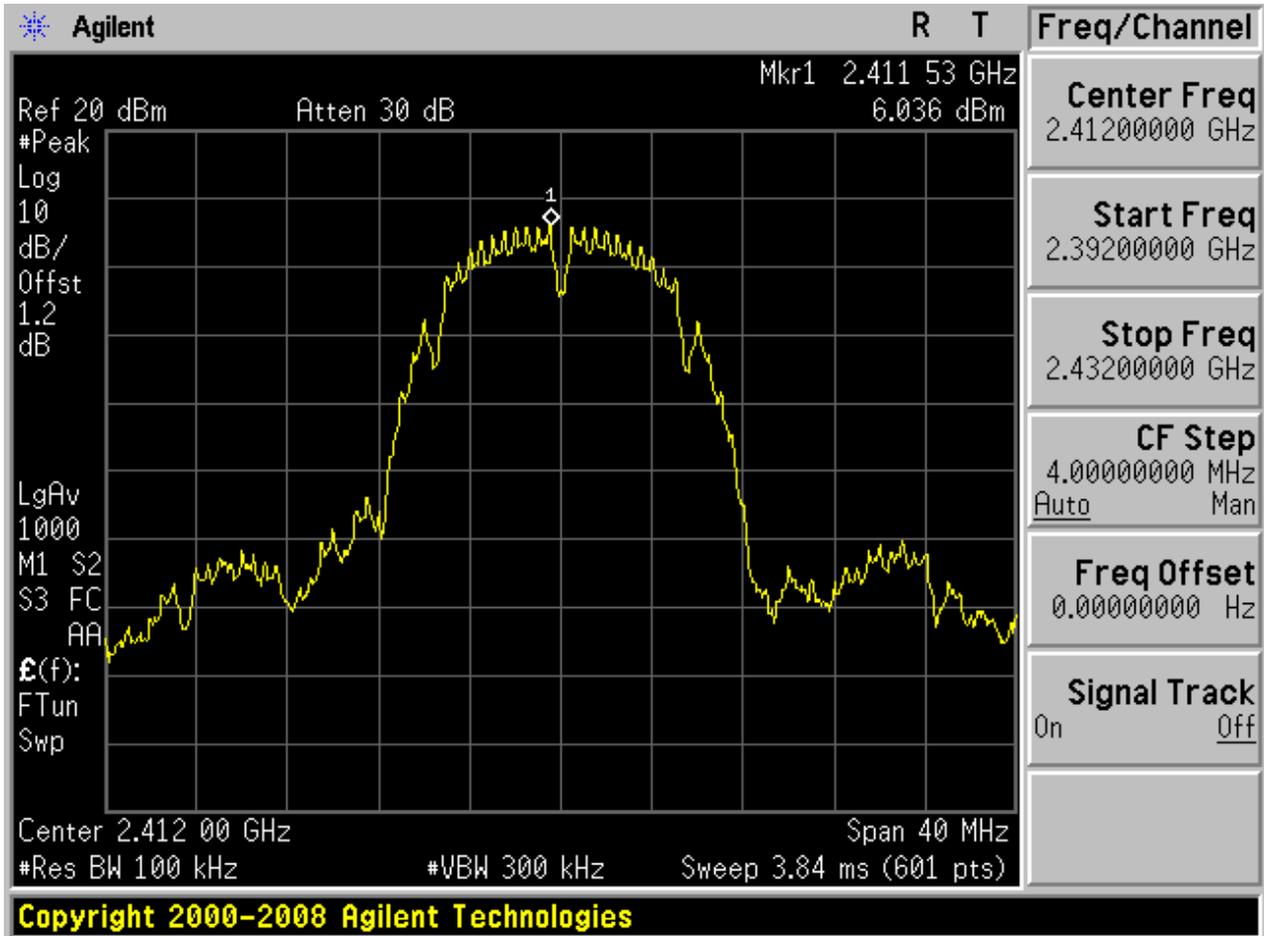
Test Mode	Test Channel	Frequency[MHz]	Ant	Pref[dBm]	Puw[dBm]	Verdict
11N20	H	2462	Ant 2	0.19	<limit	pass
11N20m	L	2412	Ant 1	-1.34	<limit	pass
11N20m	L	2412	Ant 2	-1.46	<limit	pass
11N20m	M	2437	Ant 1	-2.19	<limit	pass
11N20m	M	2437	Ant 2	-1.44	<limit	pass
11N20m	H	2462	Ant 1	-1.06	<limit	pass
11N20m	H	2462	Ant 2	-1.27	<limit	pass
11N40	L	2422	Ant 1	-3.99	<limit	pass
11N40	L	2422	Ant 2	-3.63	<limit	pass
11N40	M	2437	Ant 1	-3.52	<limit	pass
11N40	M	2437	Ant 2	-3.55	<limit	pass
11N40	H	2452	Ant 1	-3.00	<limit	pass
11N40	H	2452	Ant 2	-3.72	<limit	pass
11N40m	L	2422	Ant 1	-4.02	<limit	pass
11N40m	L	2422	Ant 2	-4.13	<limit	pass
11N40m	M	2437	Ant 1	-3.78	<limit	pass
11N40m	M	2437	Ant 2	-3.59	<limit	pass
11N40m	H	2452	Ant 1	-3.11	<limit	pass
11N40m	H	2452	Ant 2	-3.21	<limit	pass



Part II - Test Plots

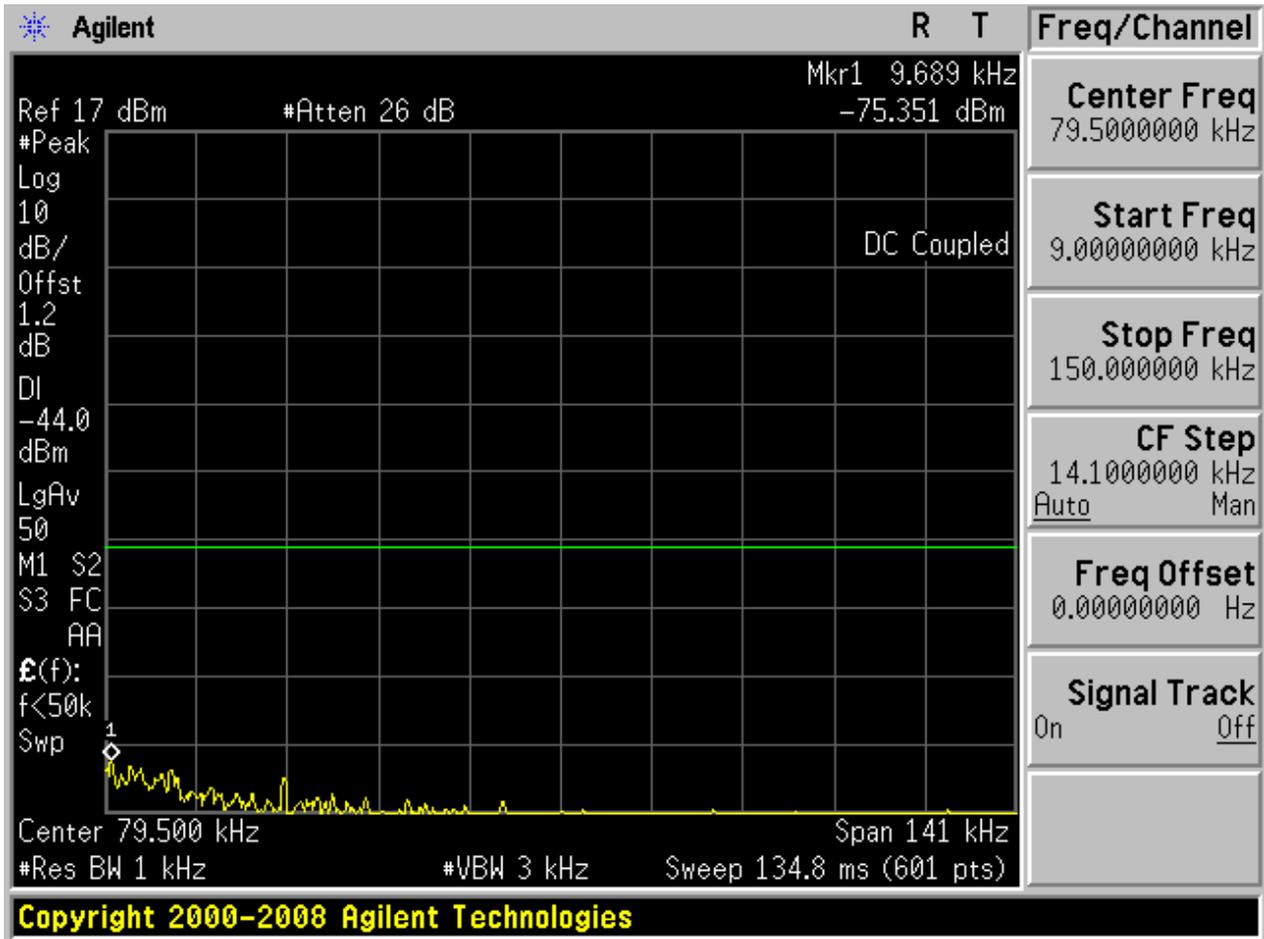
2.1 11B_L@Ant 1

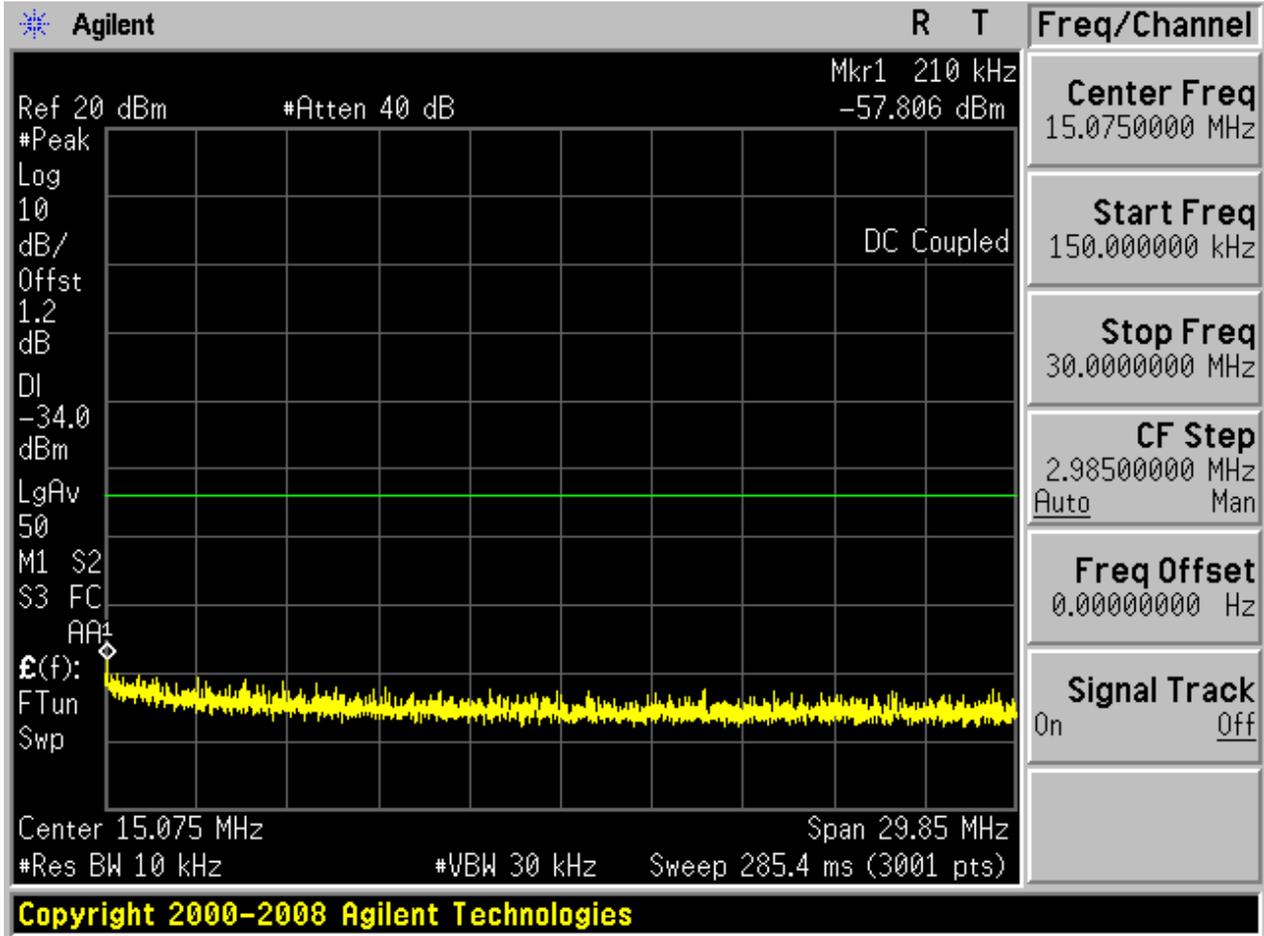
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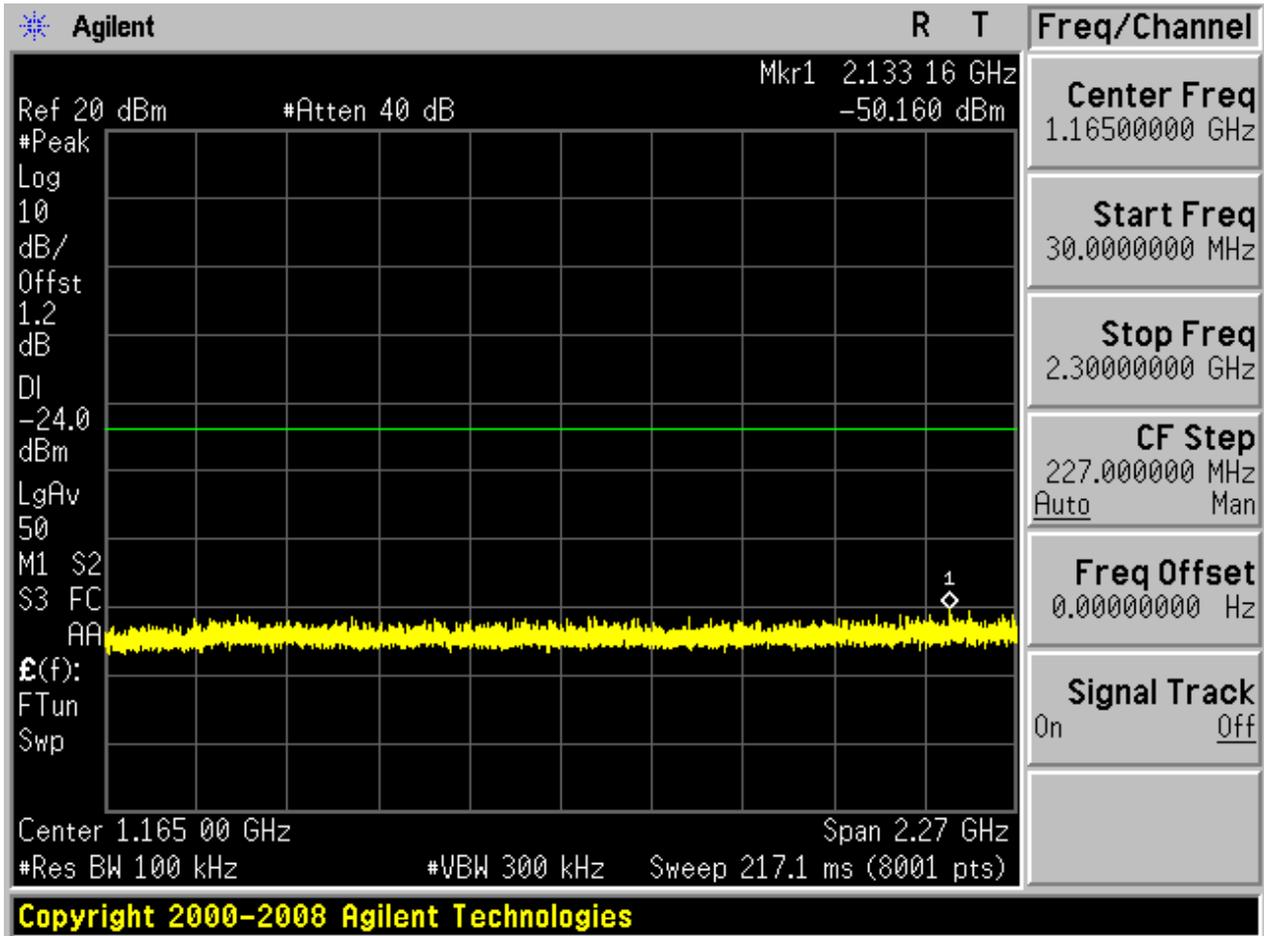


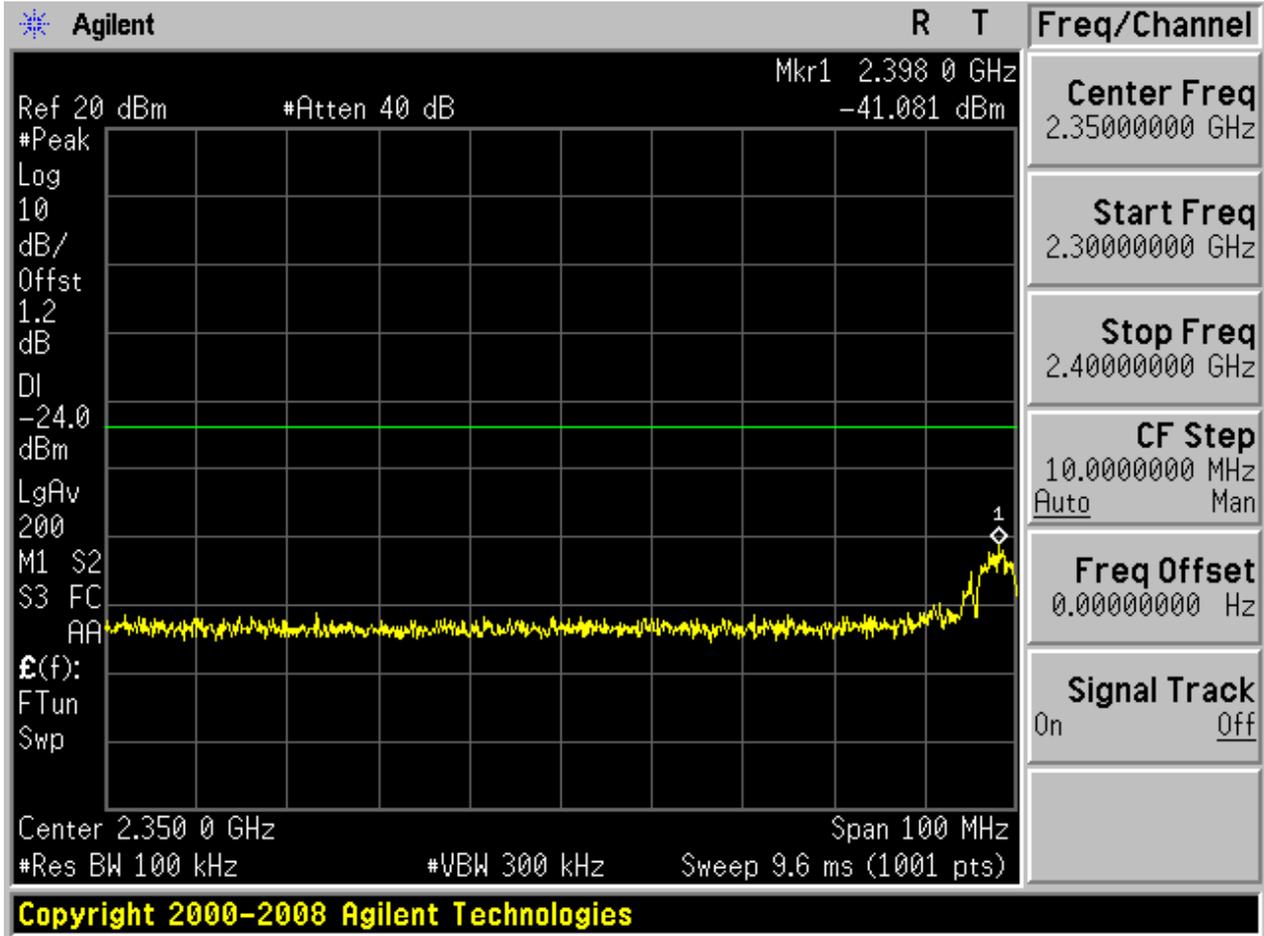


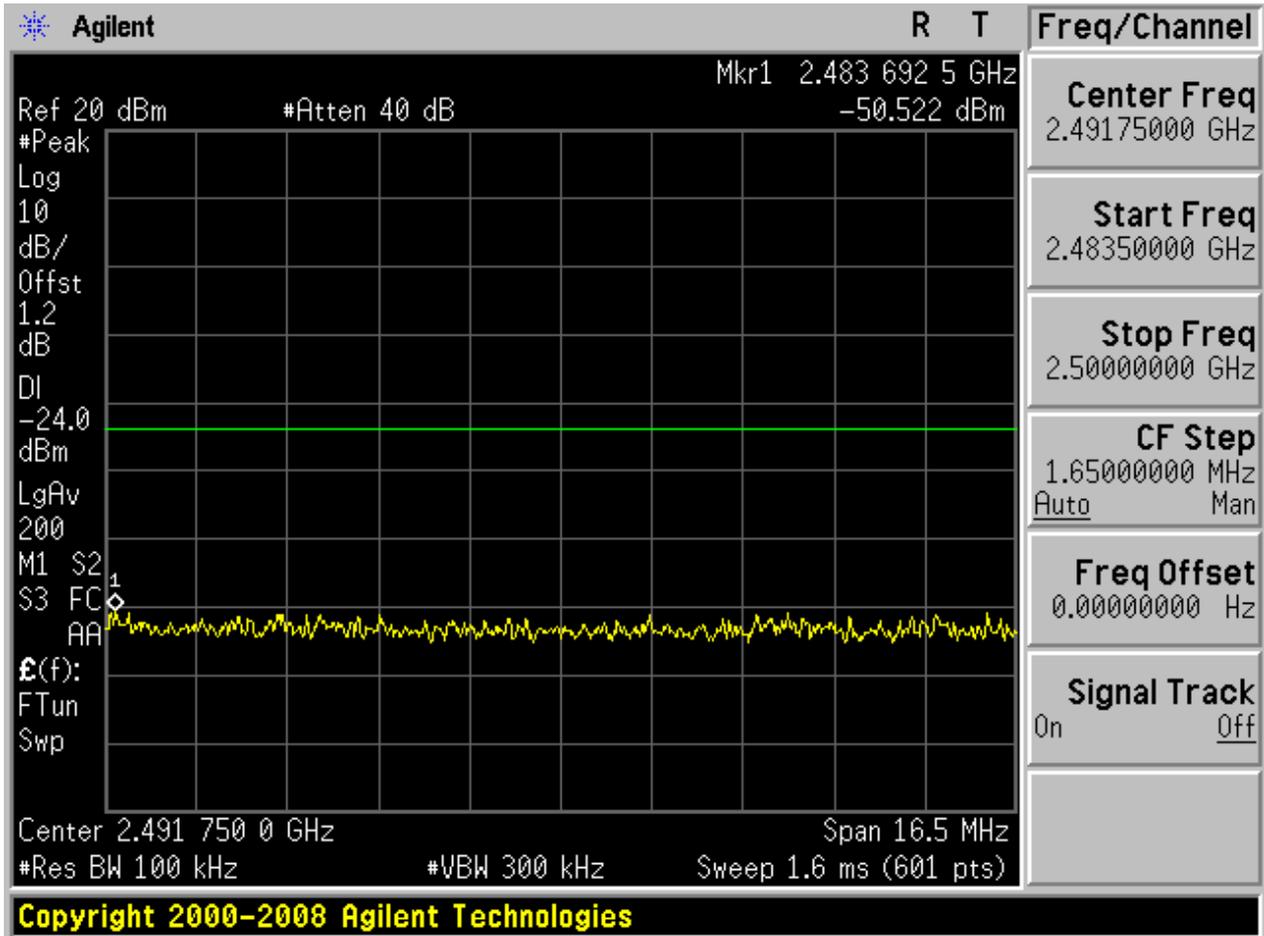
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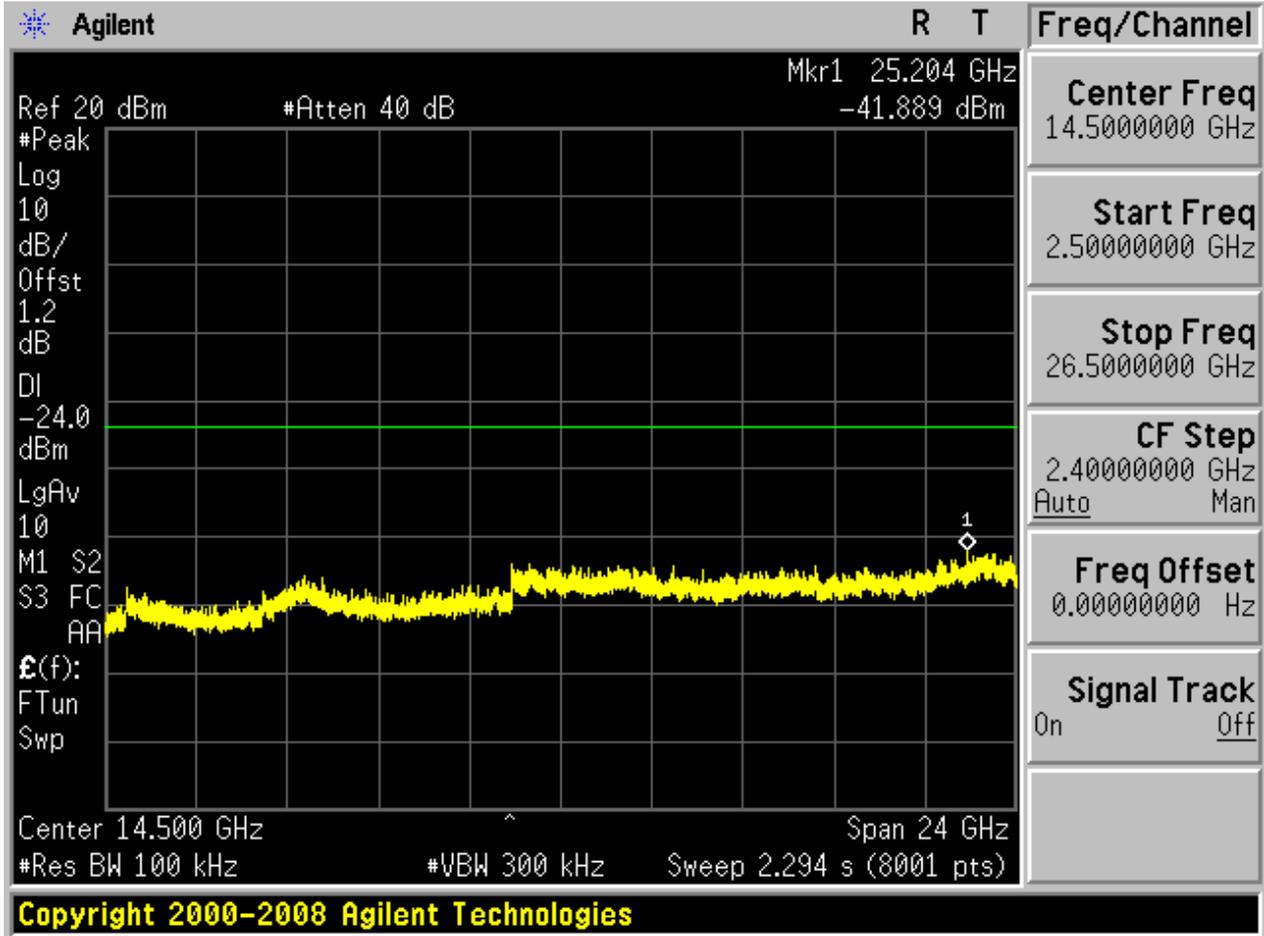








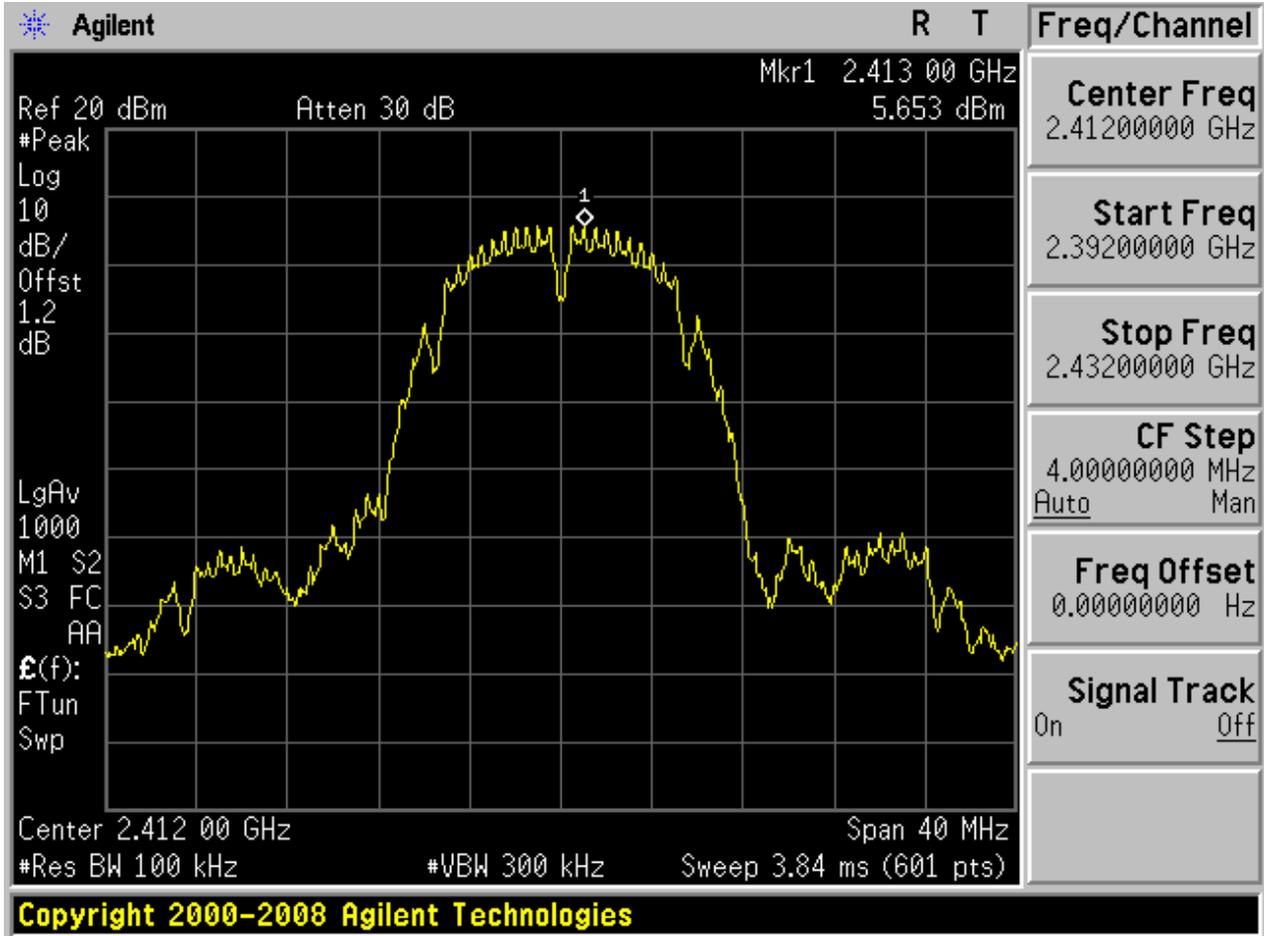




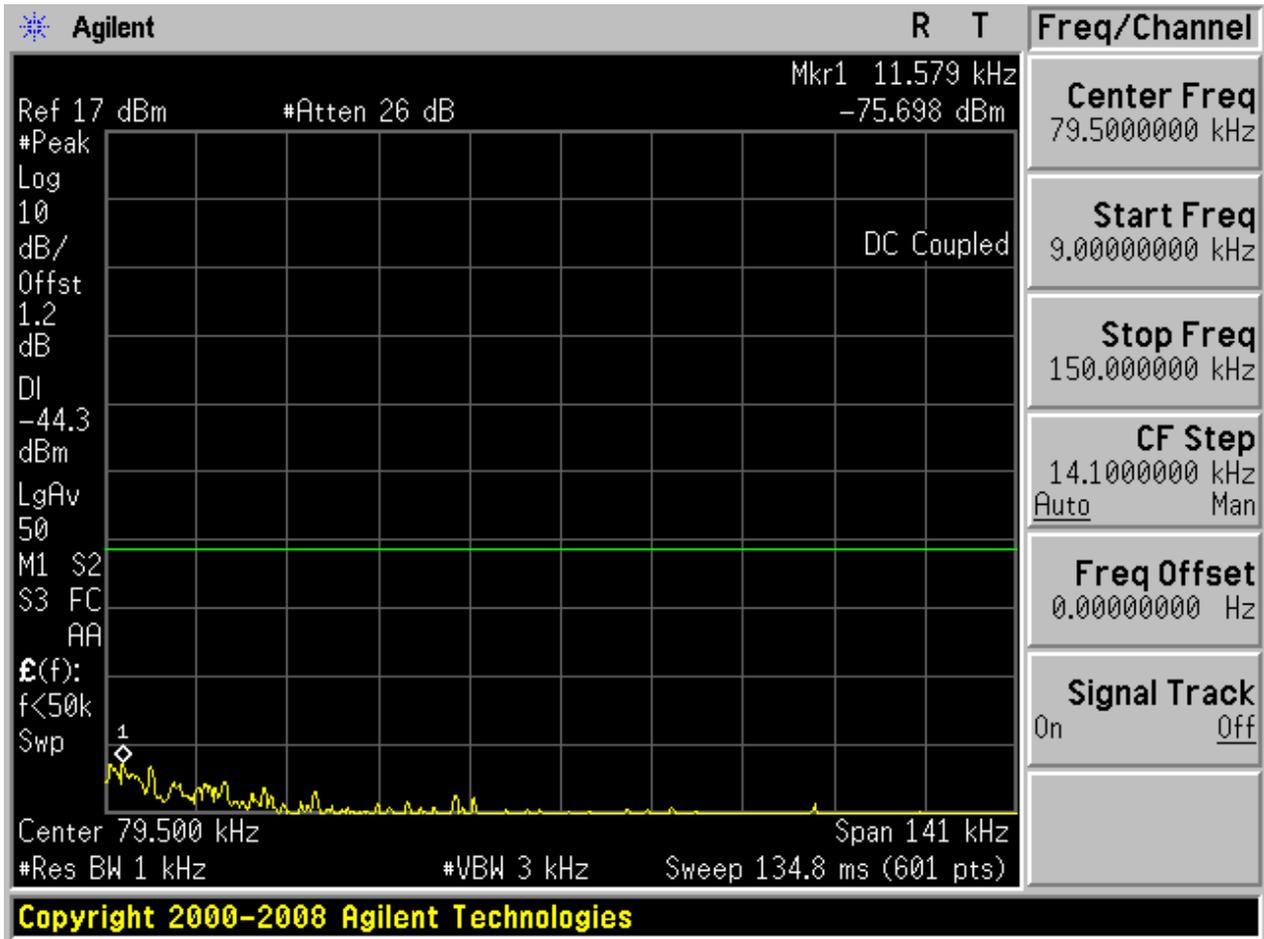


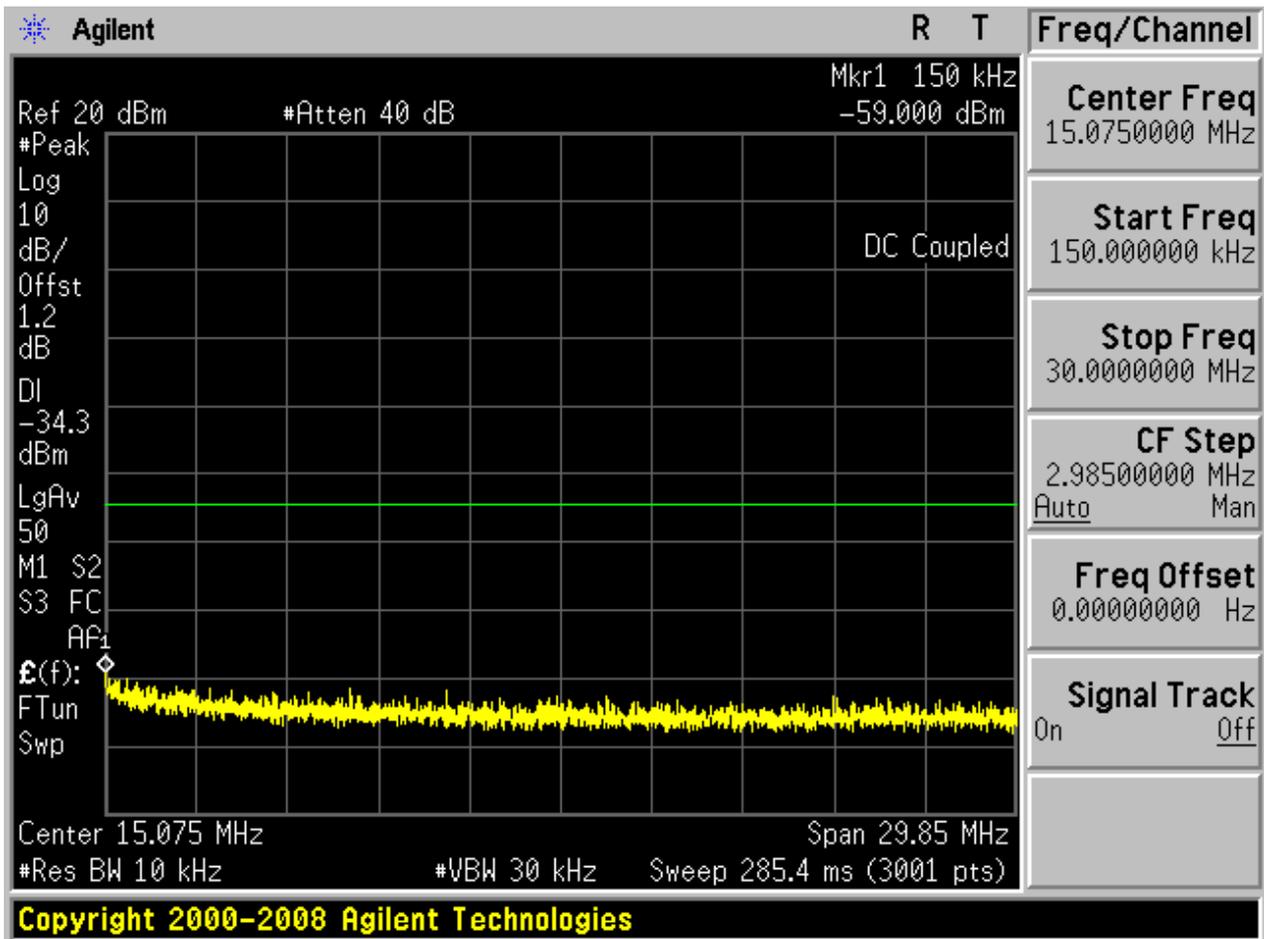
2.2 11B_L@Ant 2

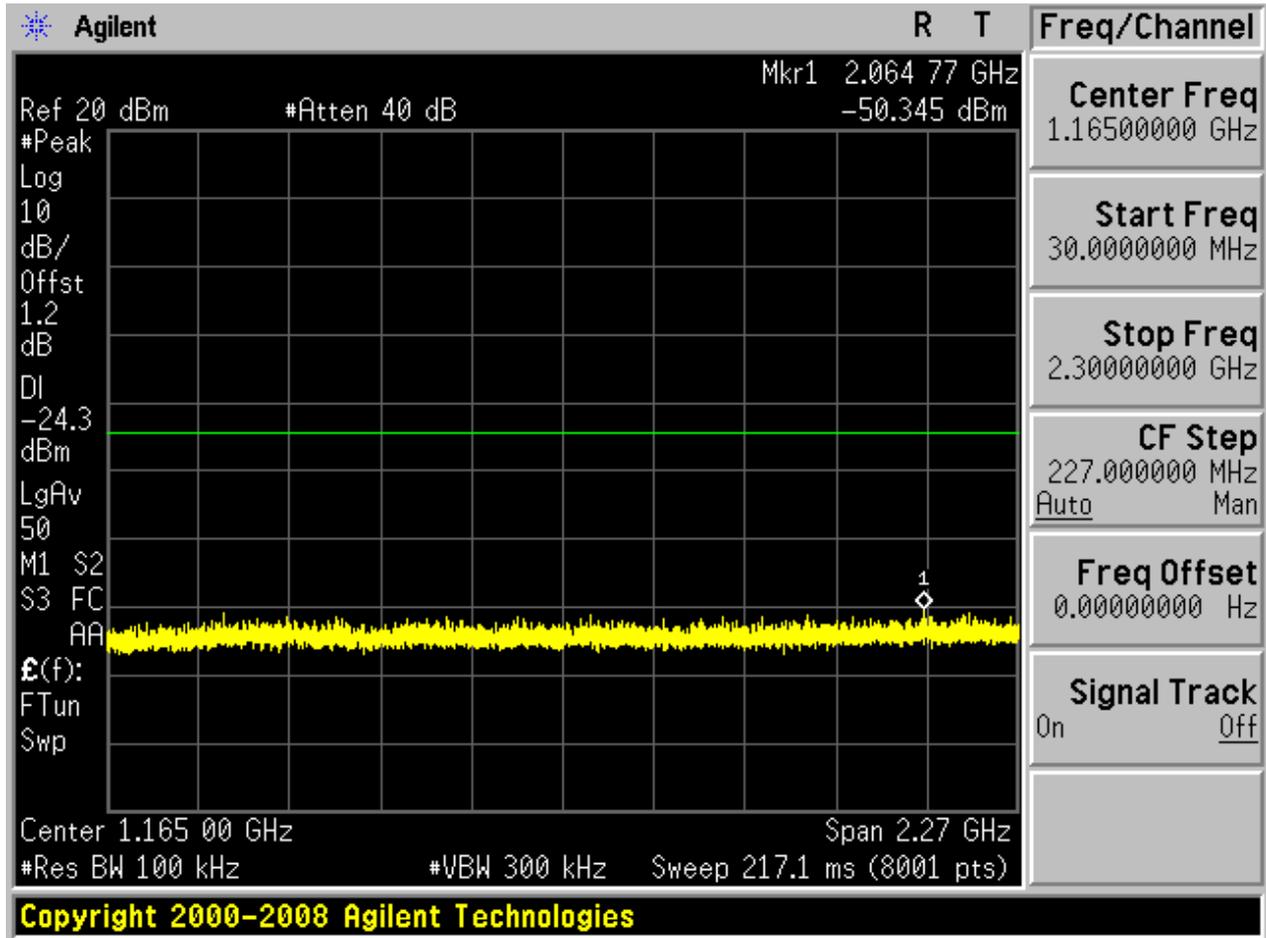
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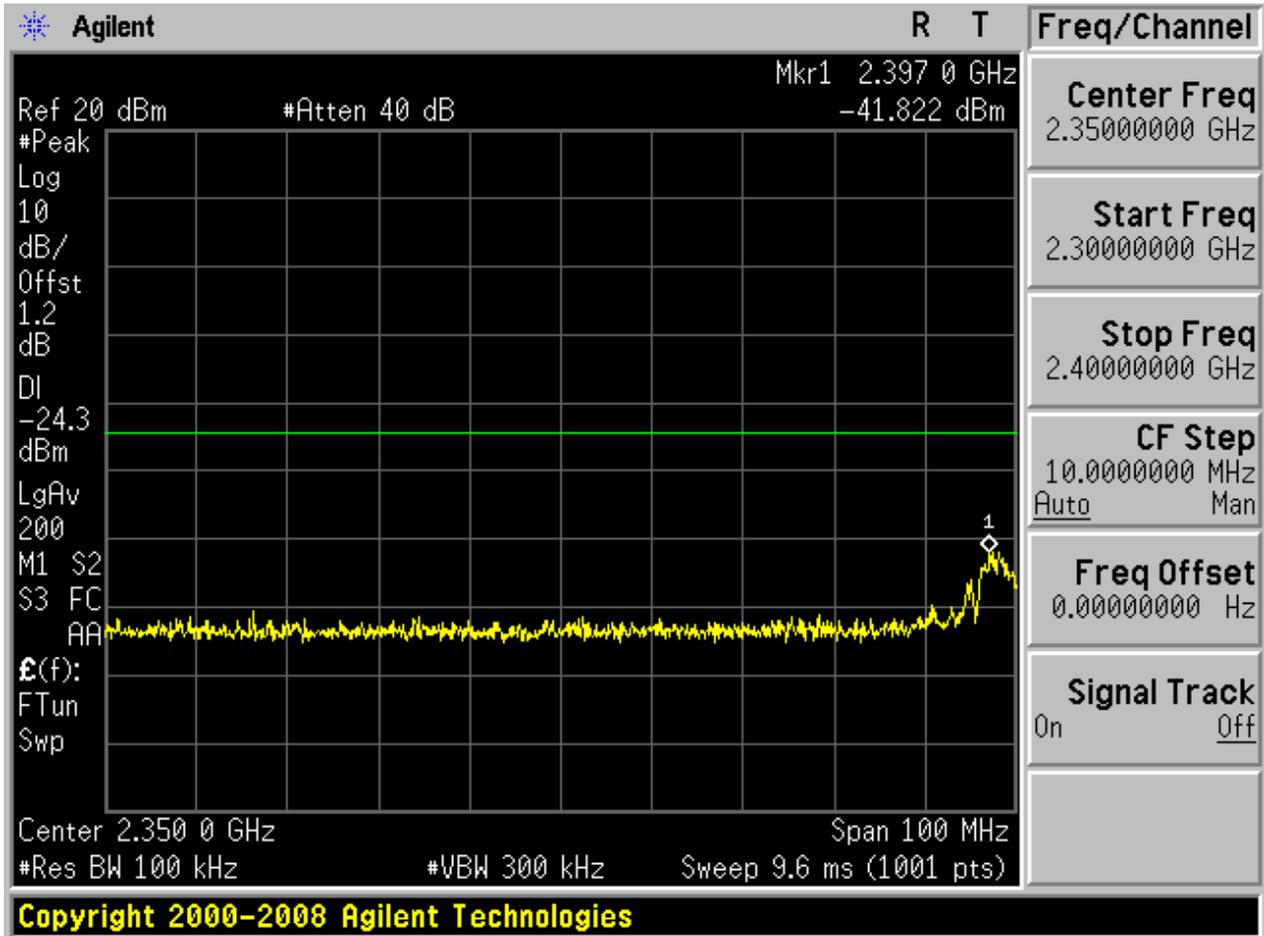


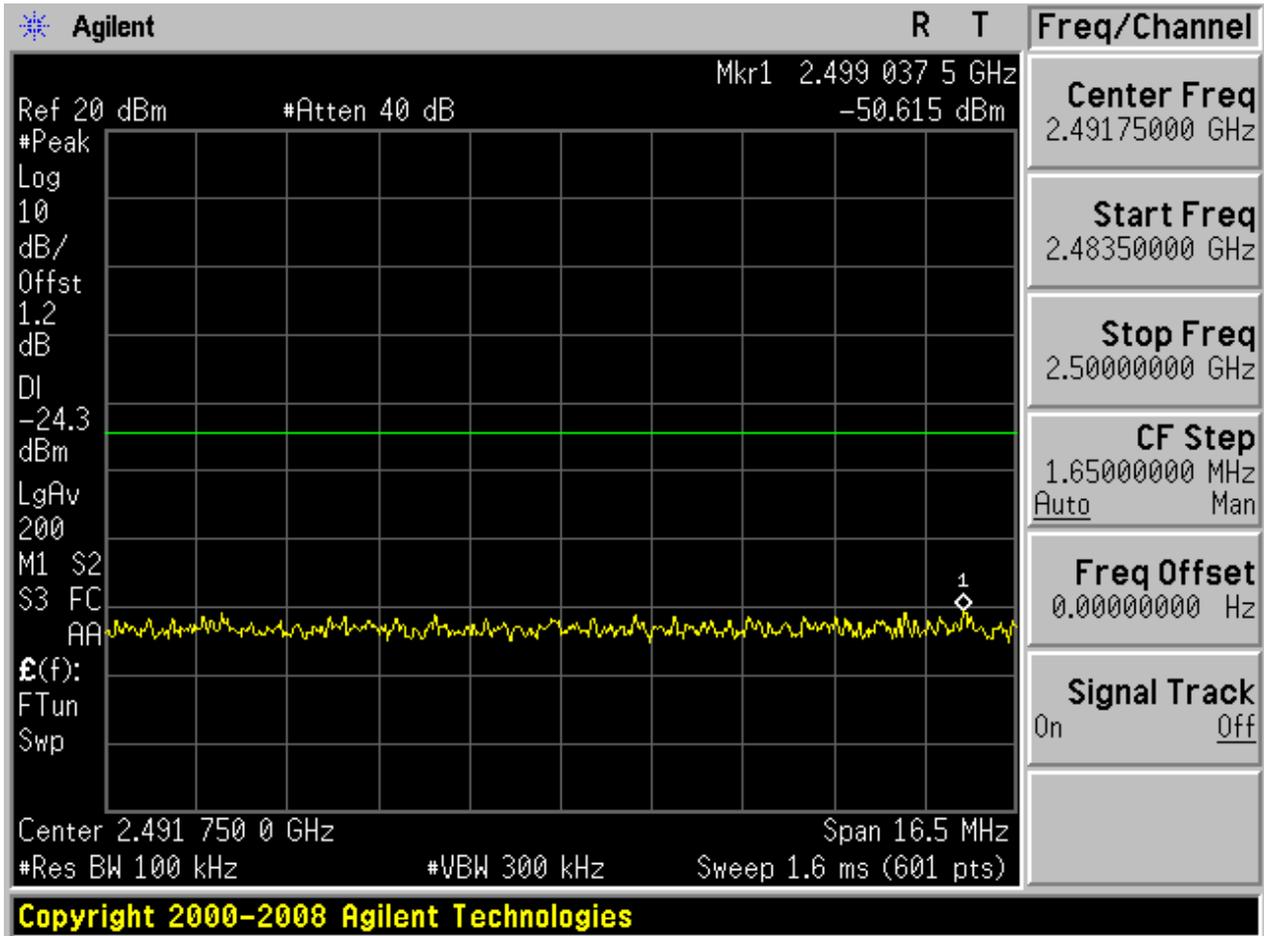
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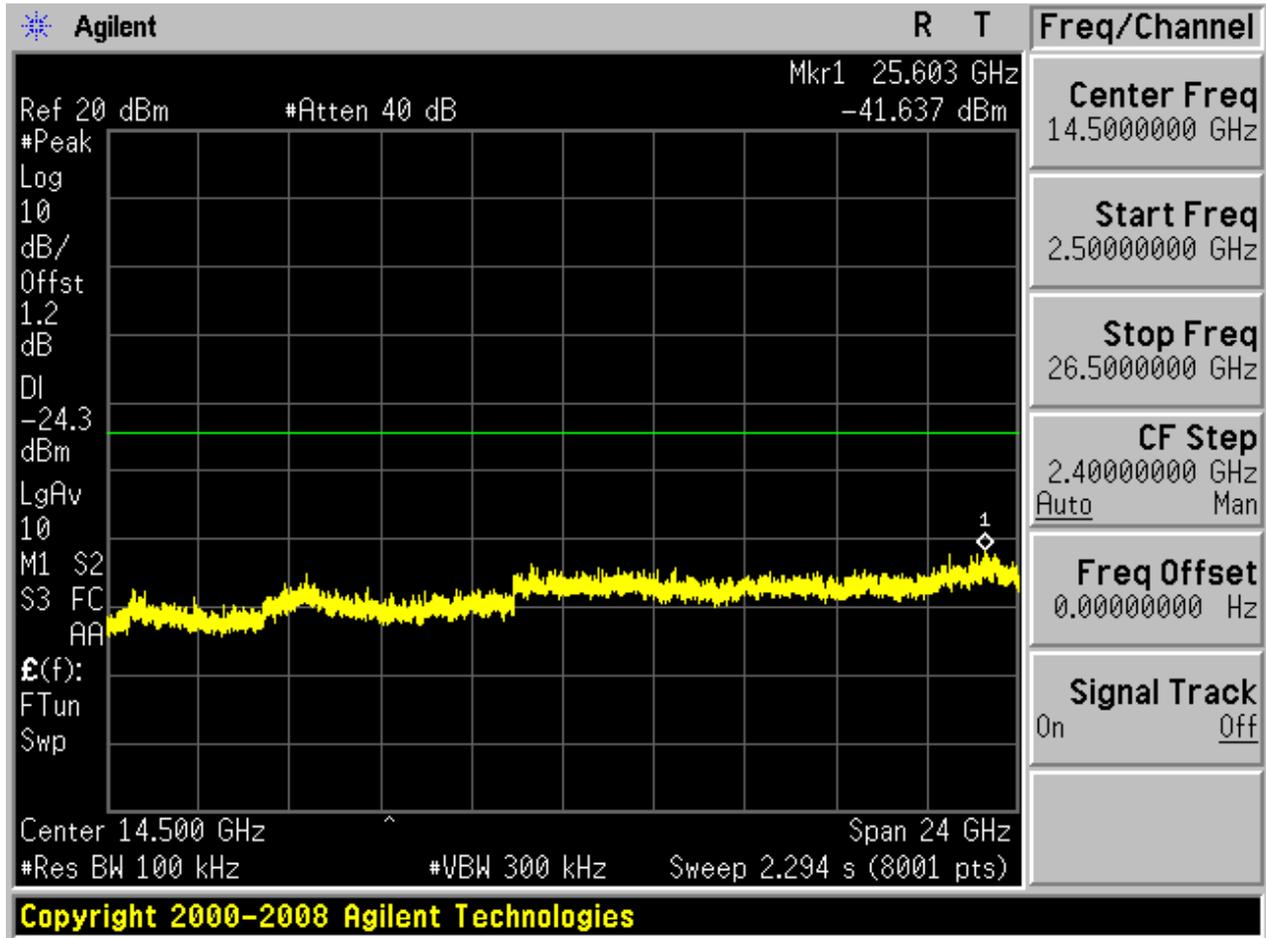








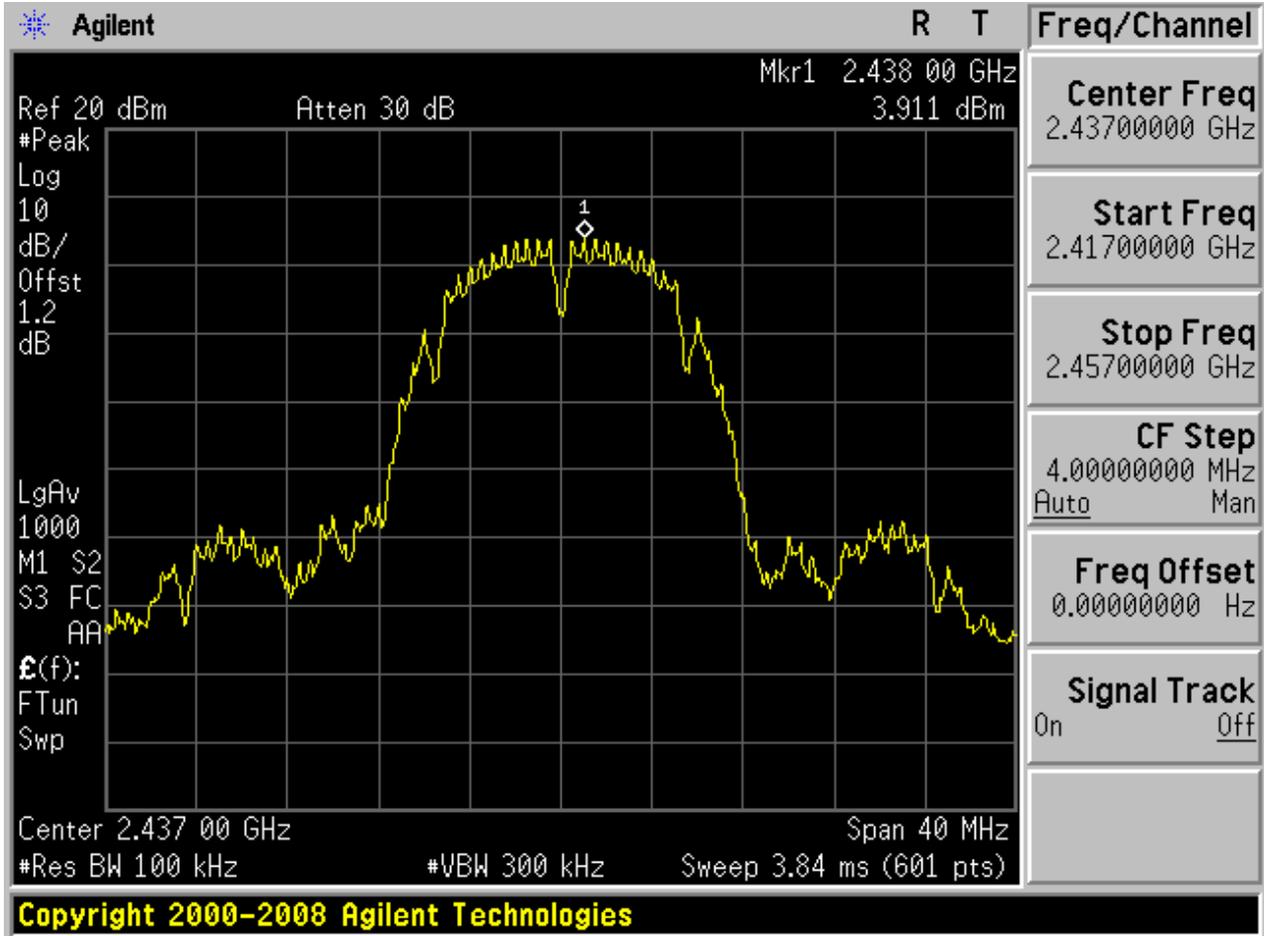






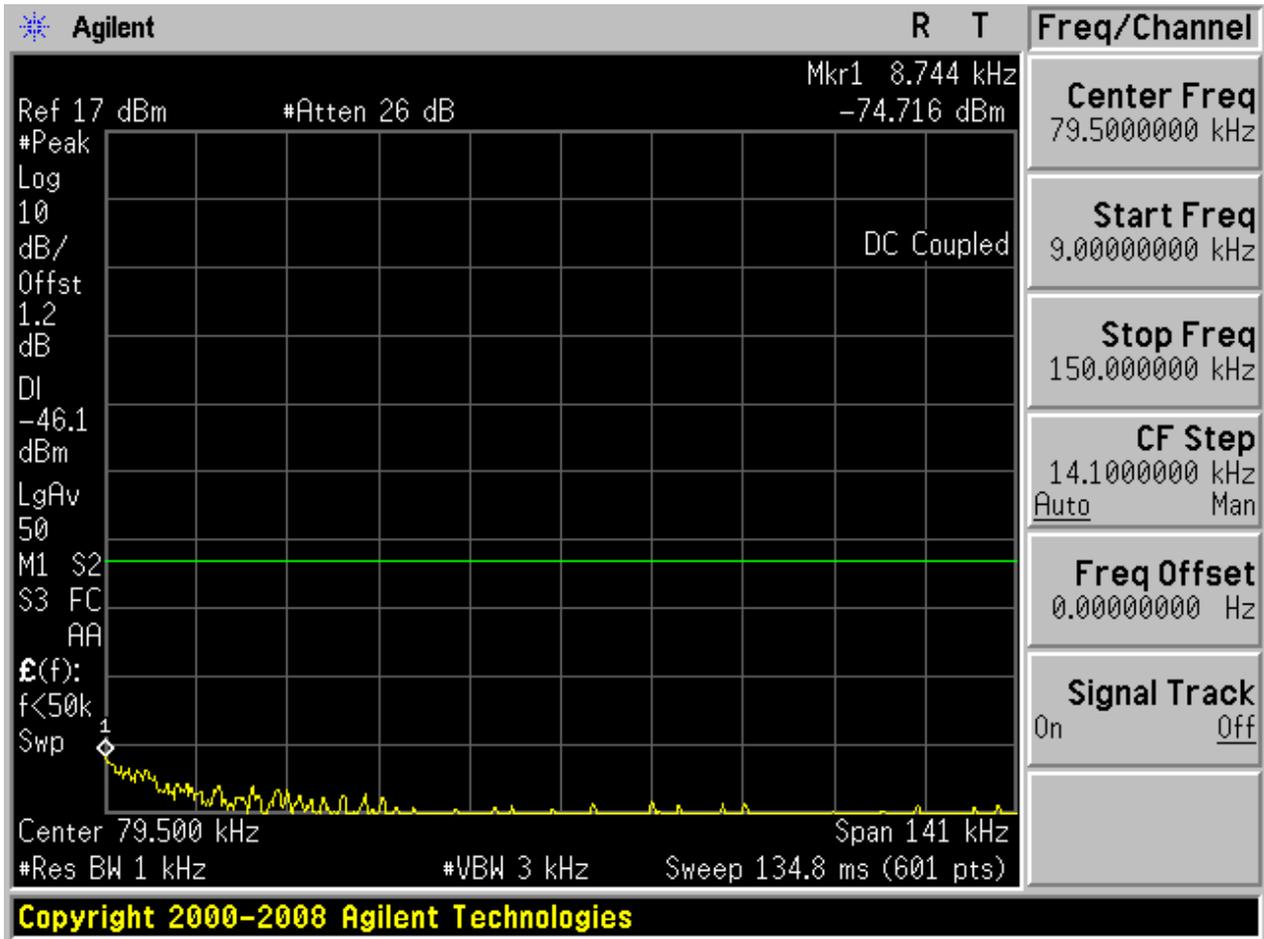
2.3 11B_M@Ant 1

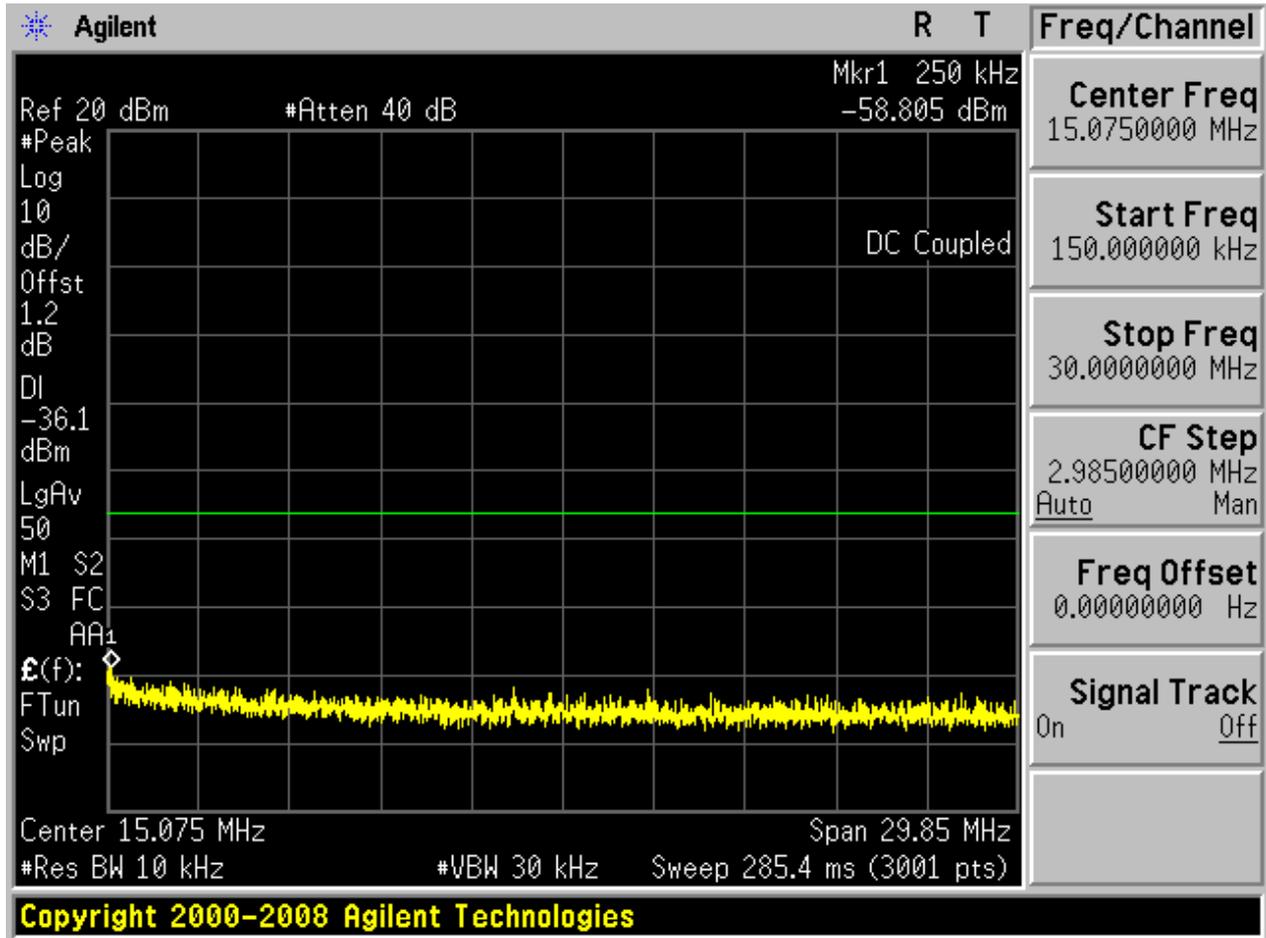
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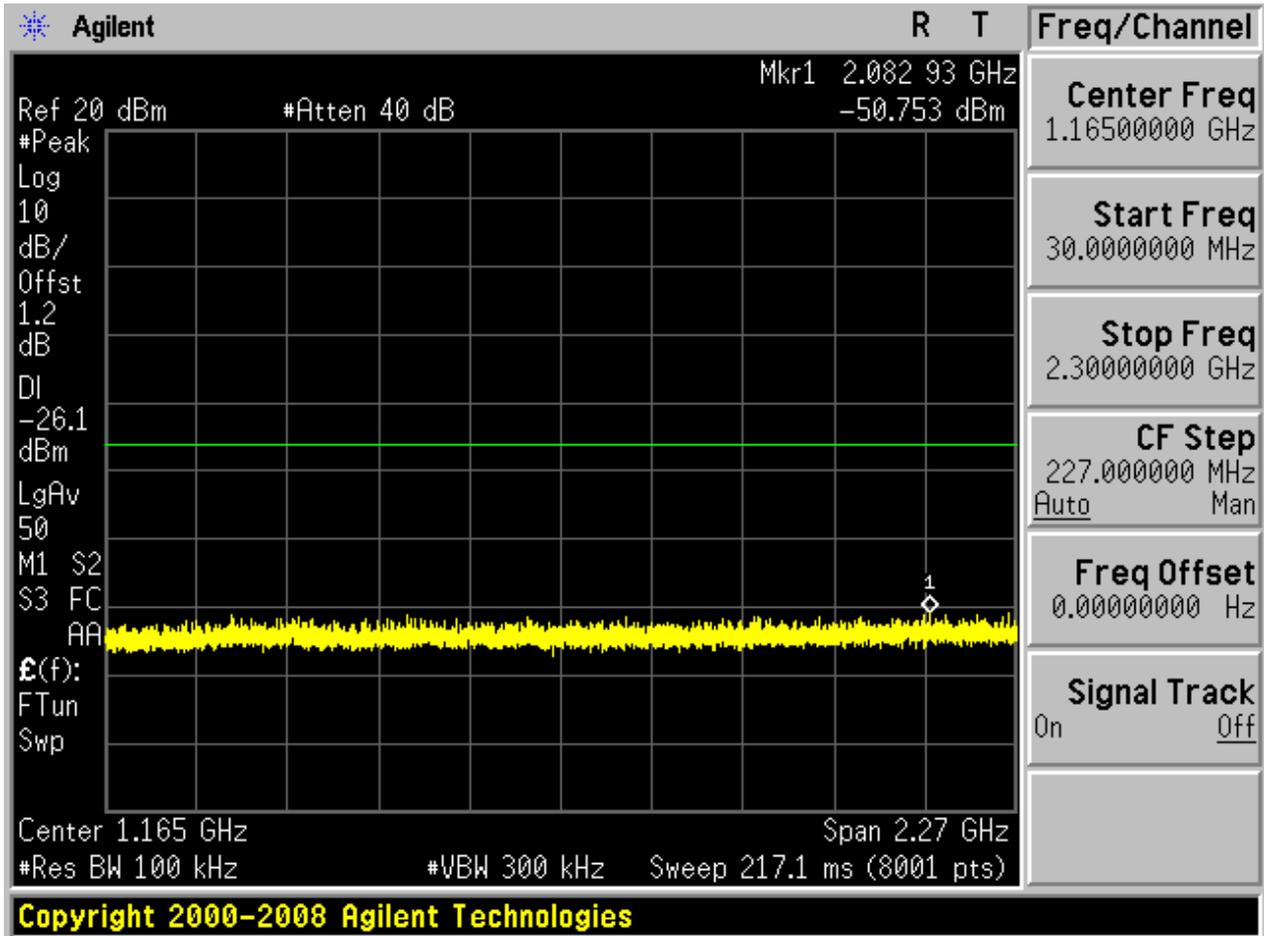


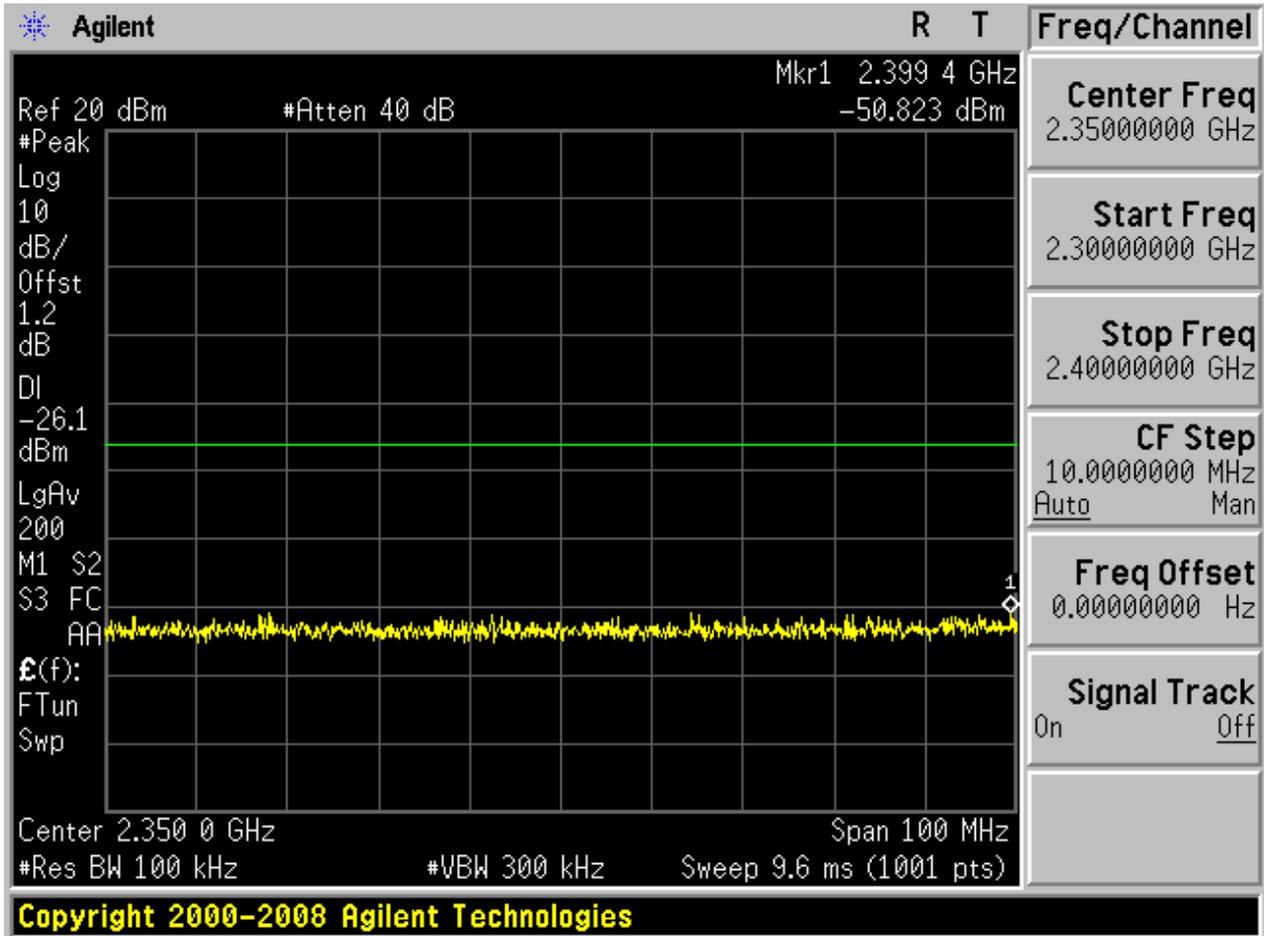


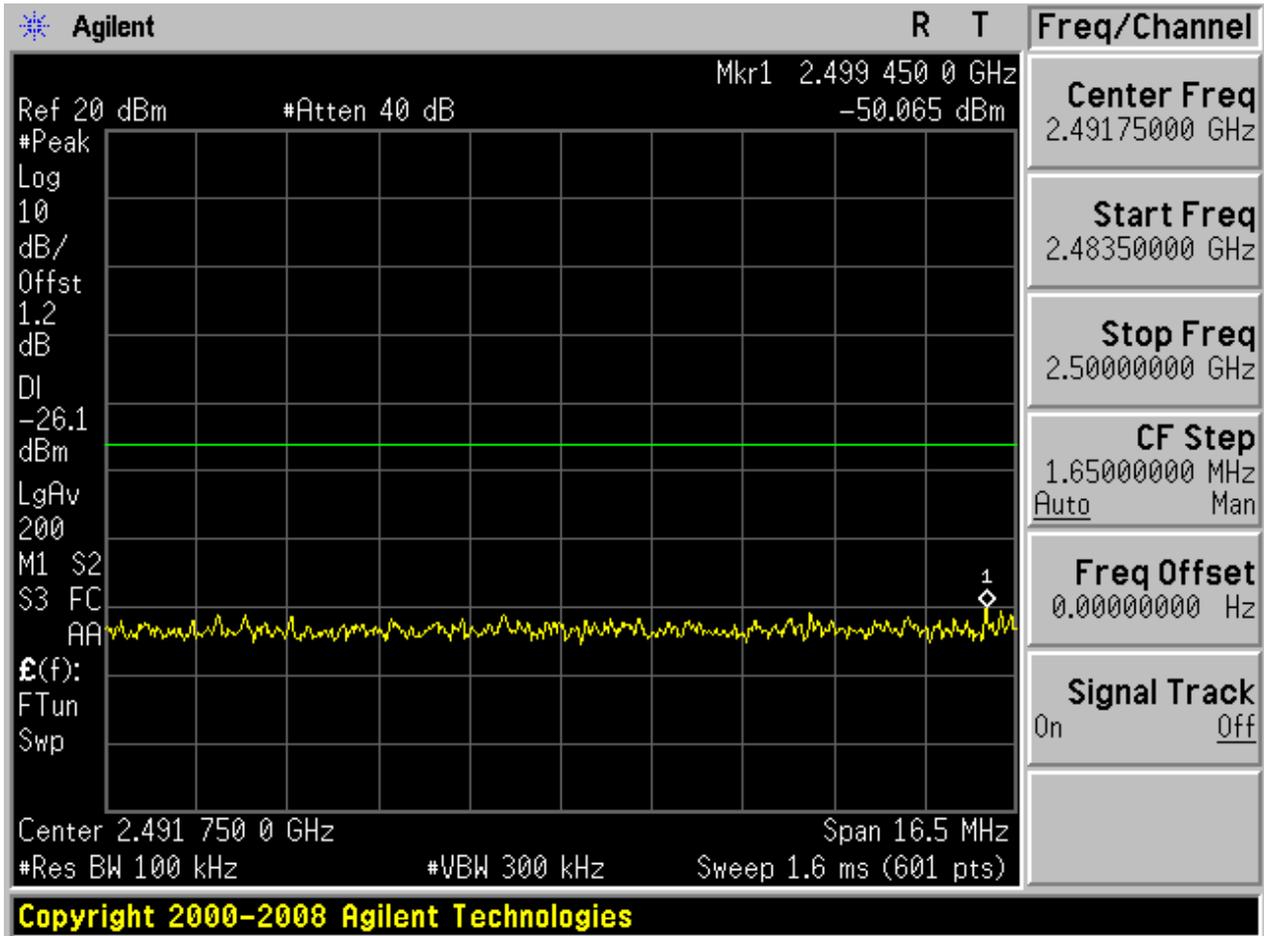
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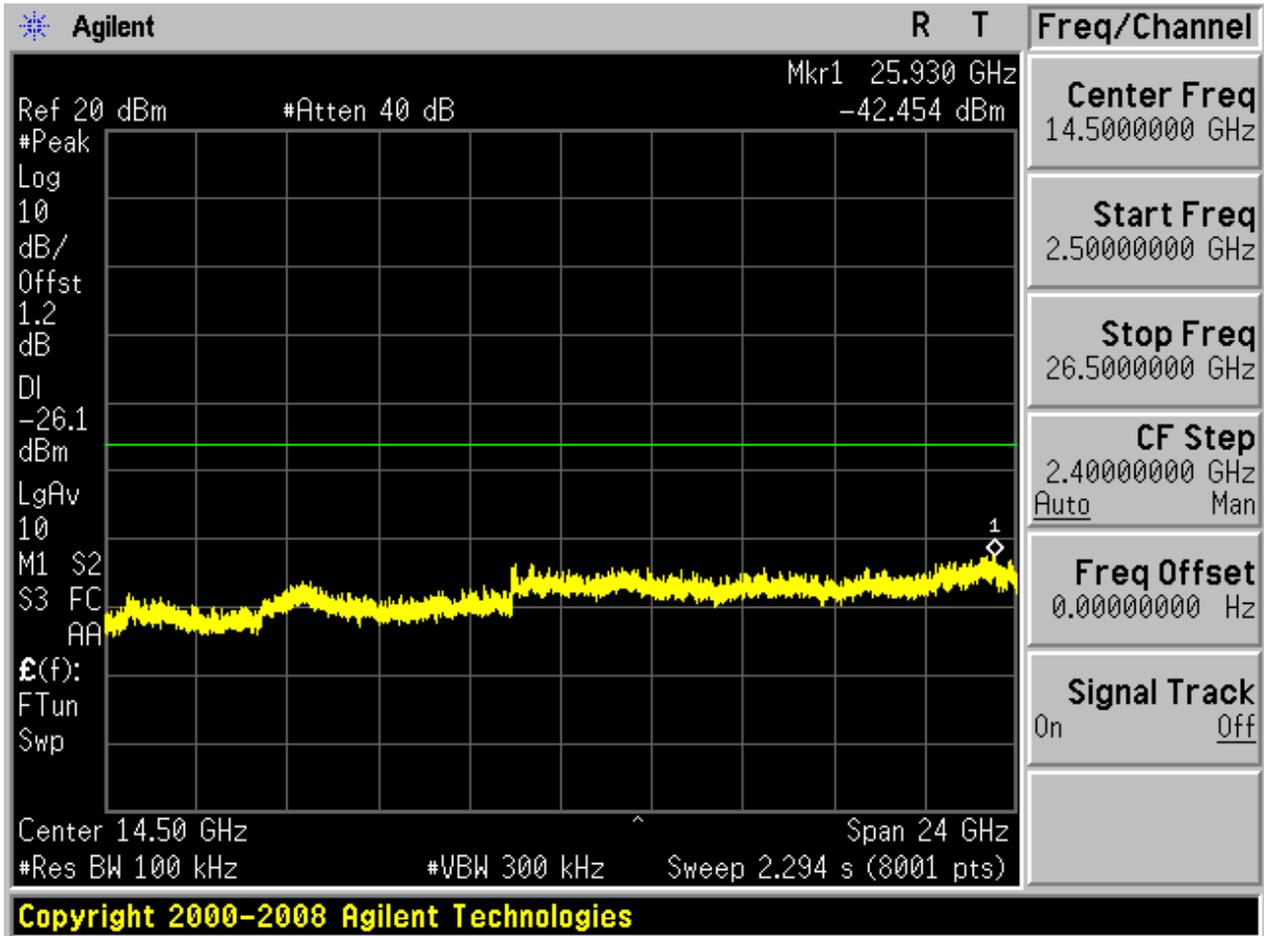








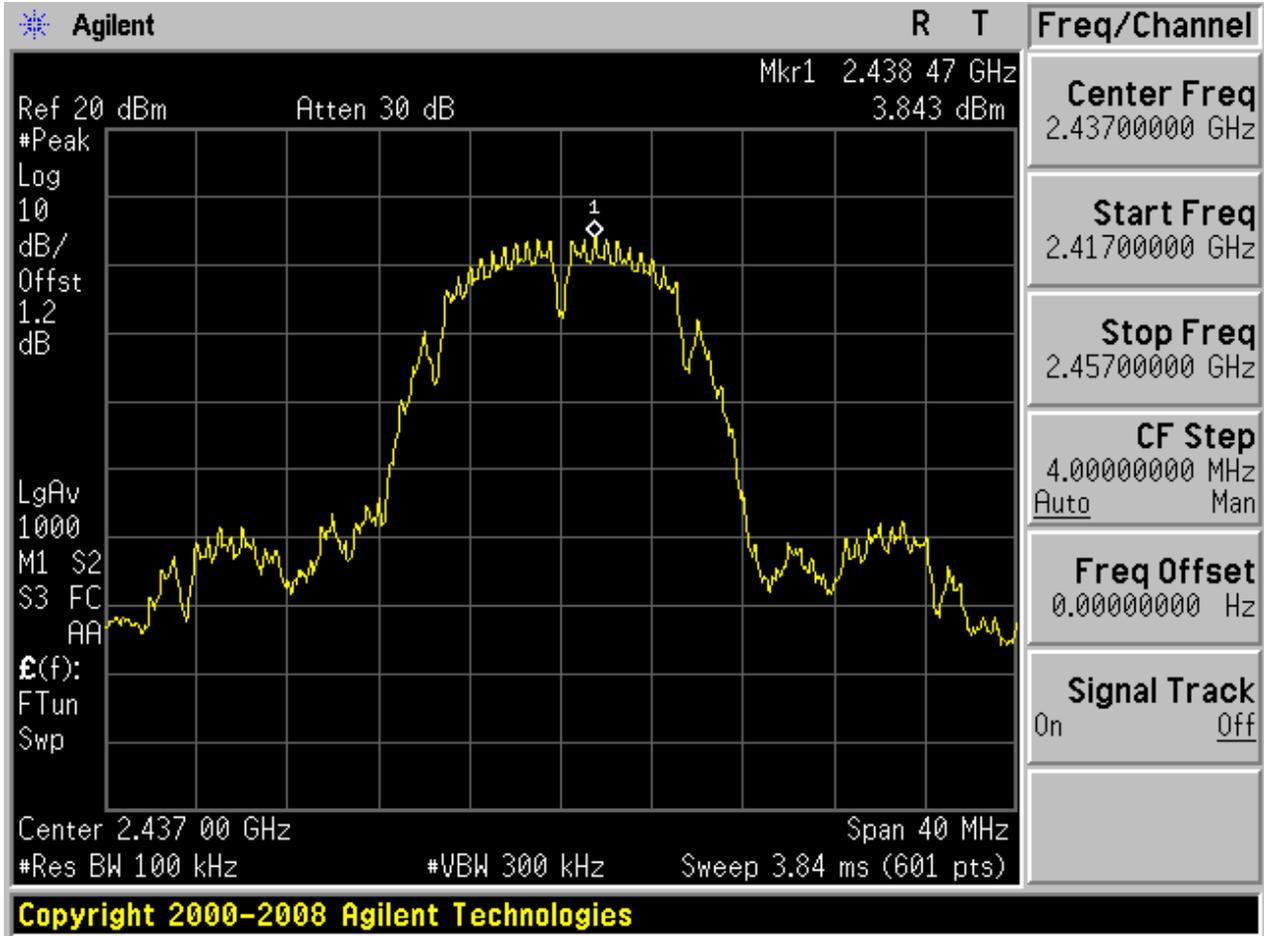






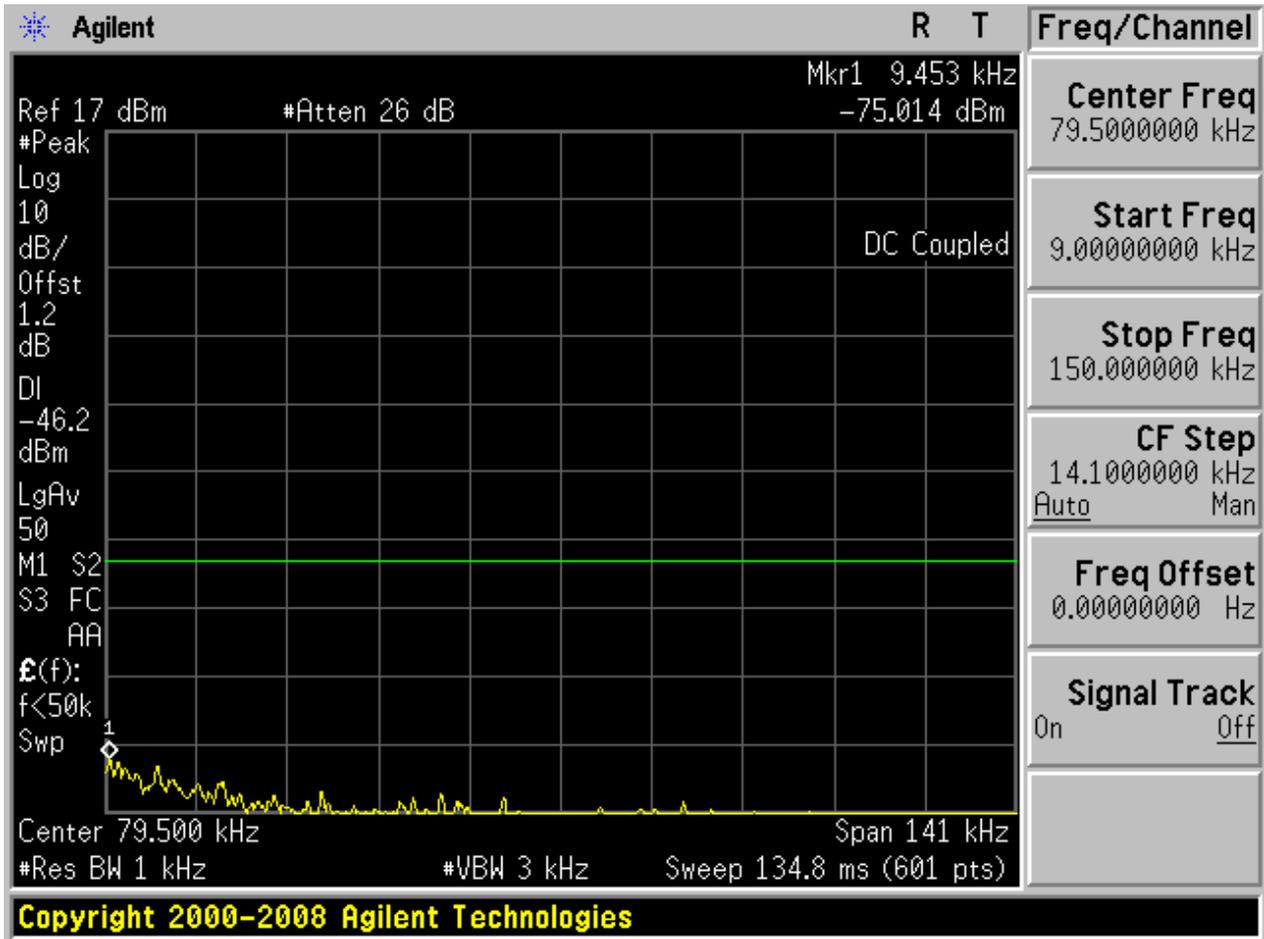
2.4 11B_M@Ant 2

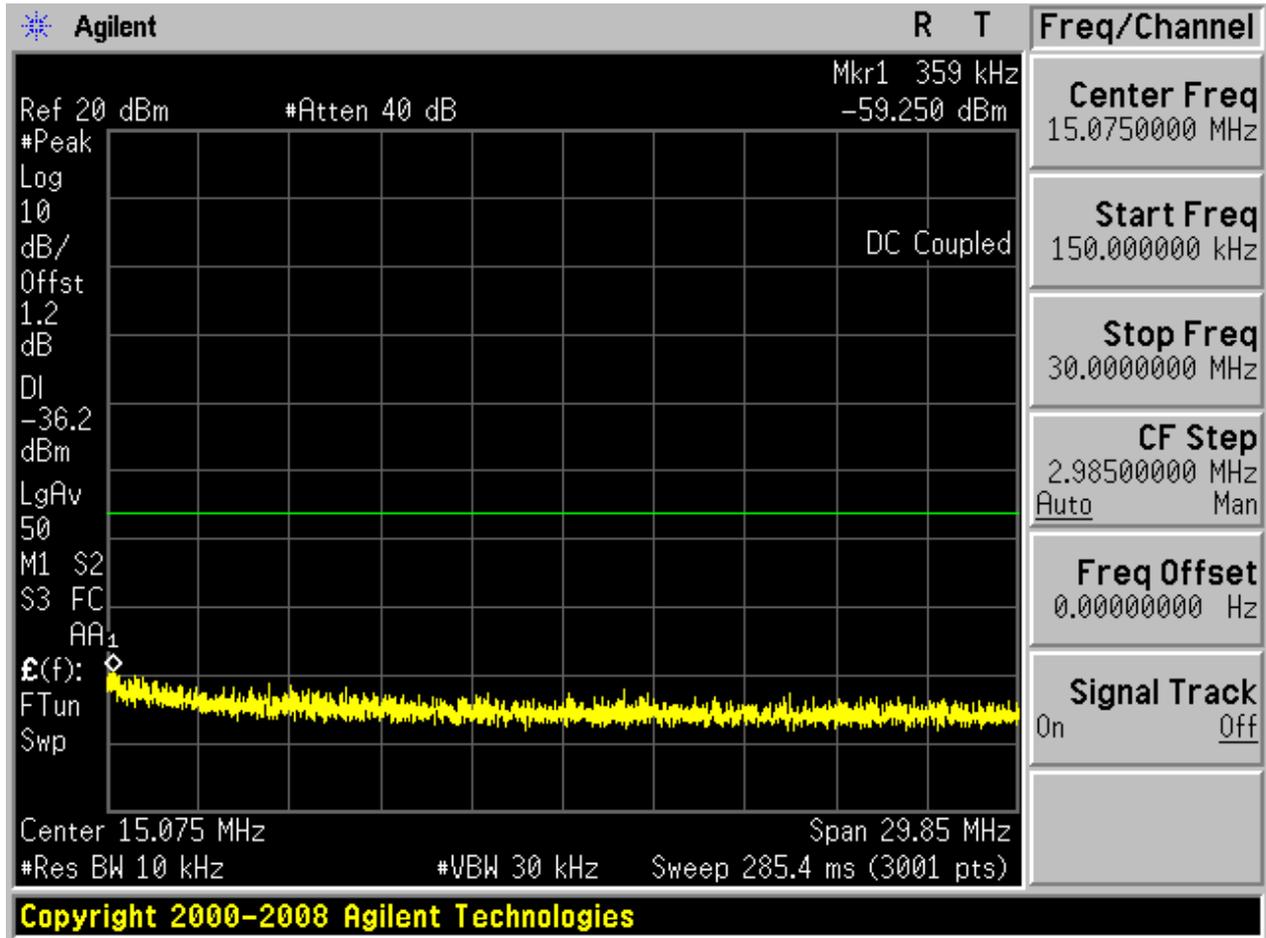
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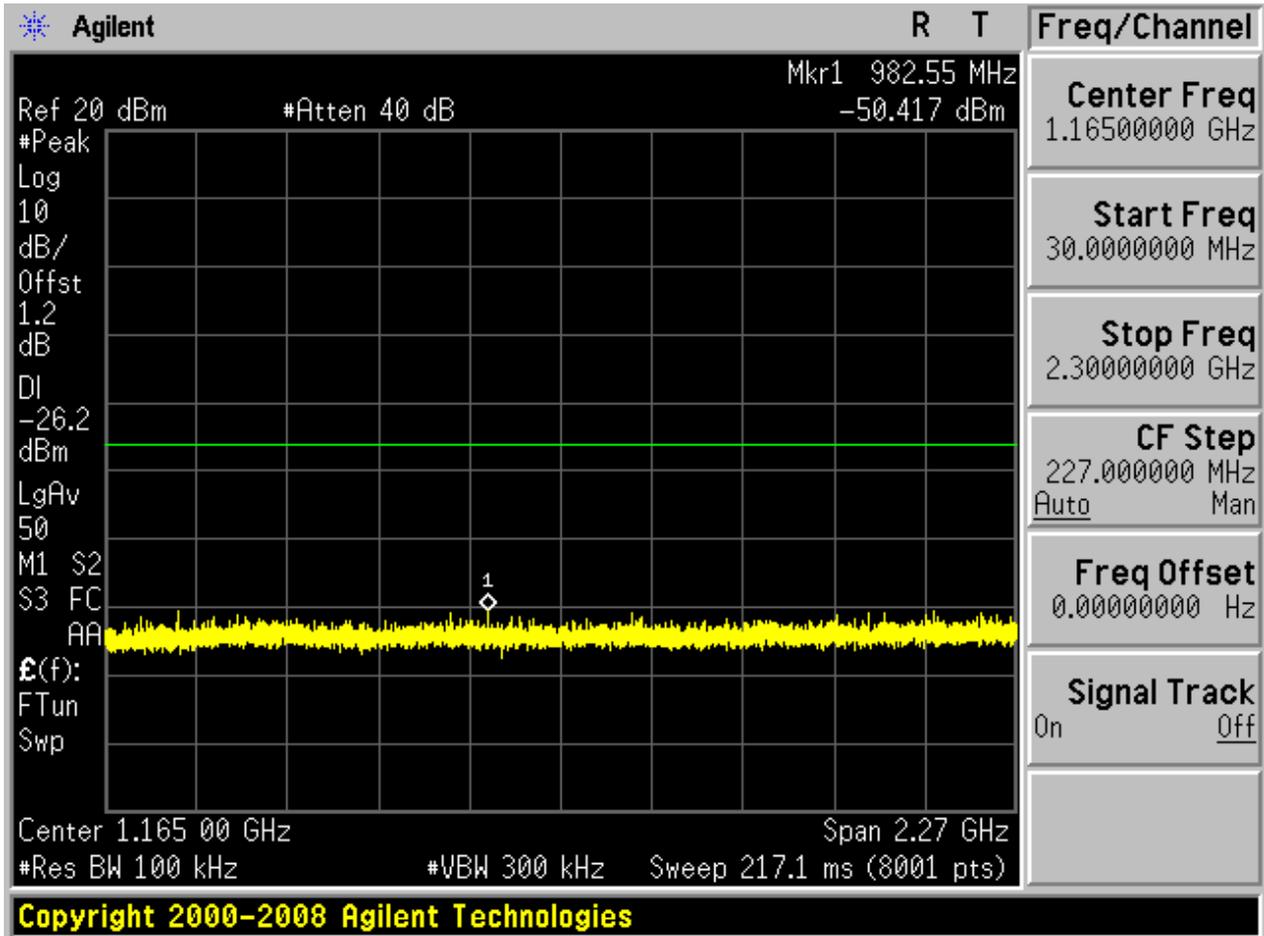


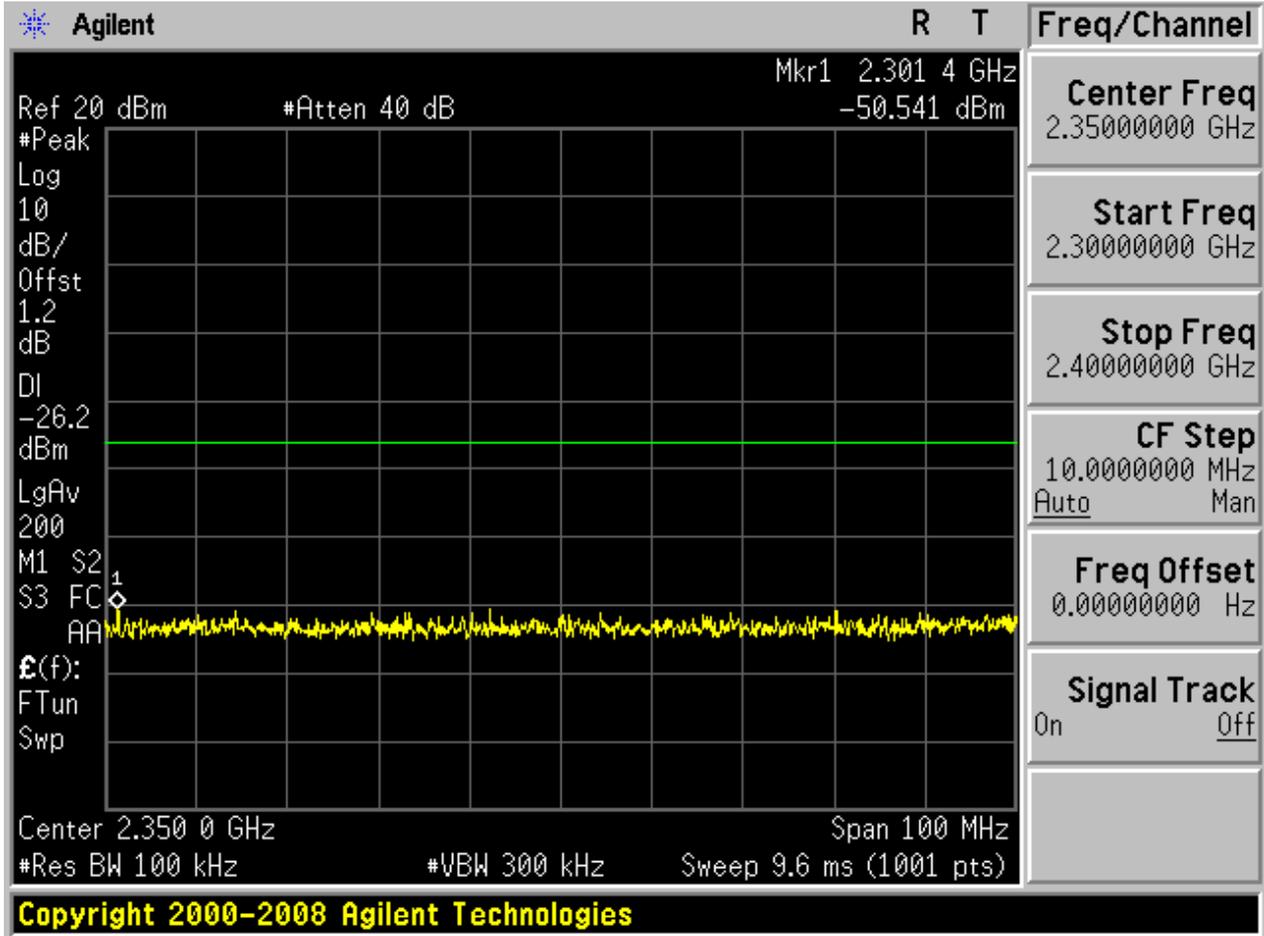


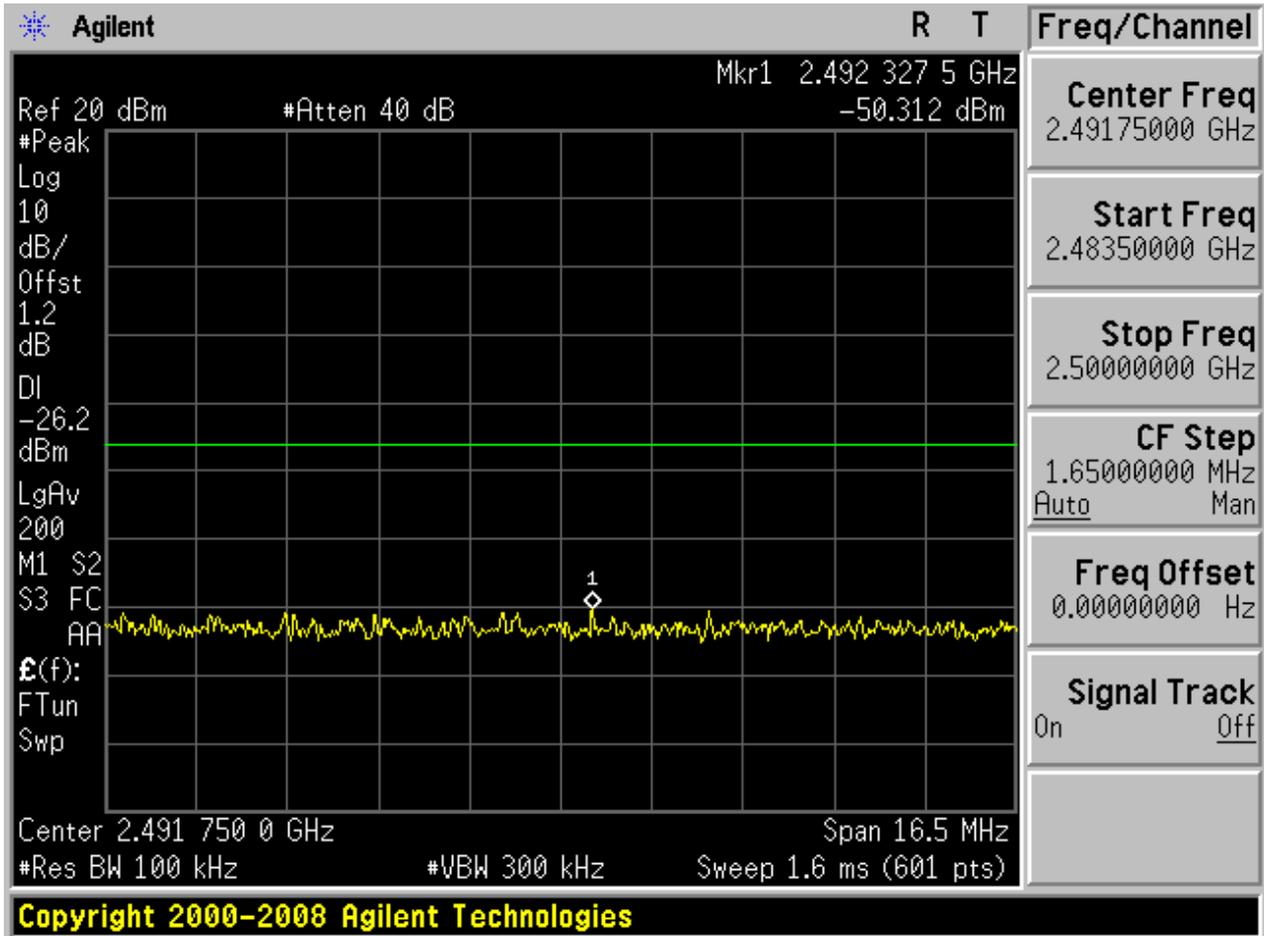
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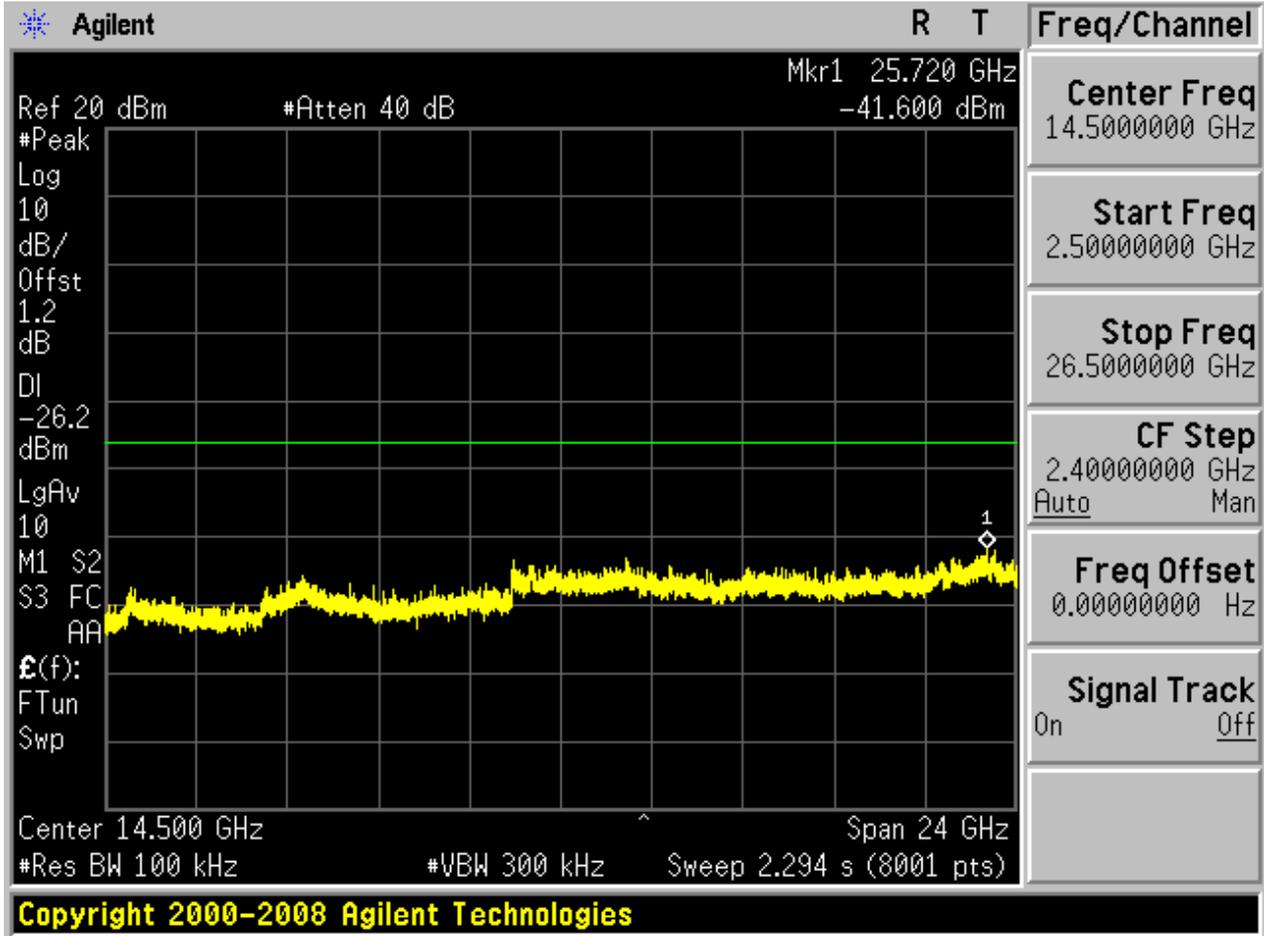








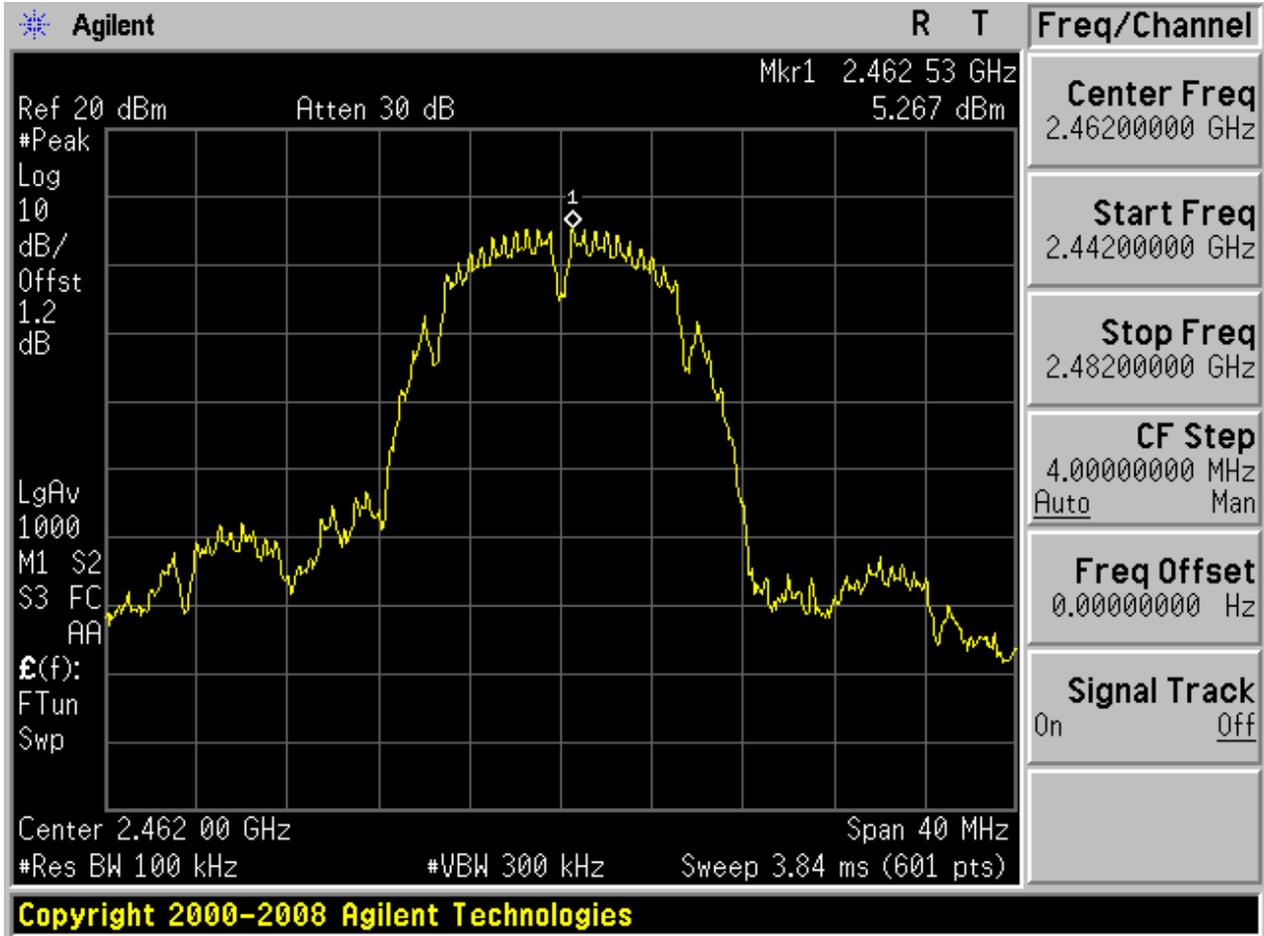






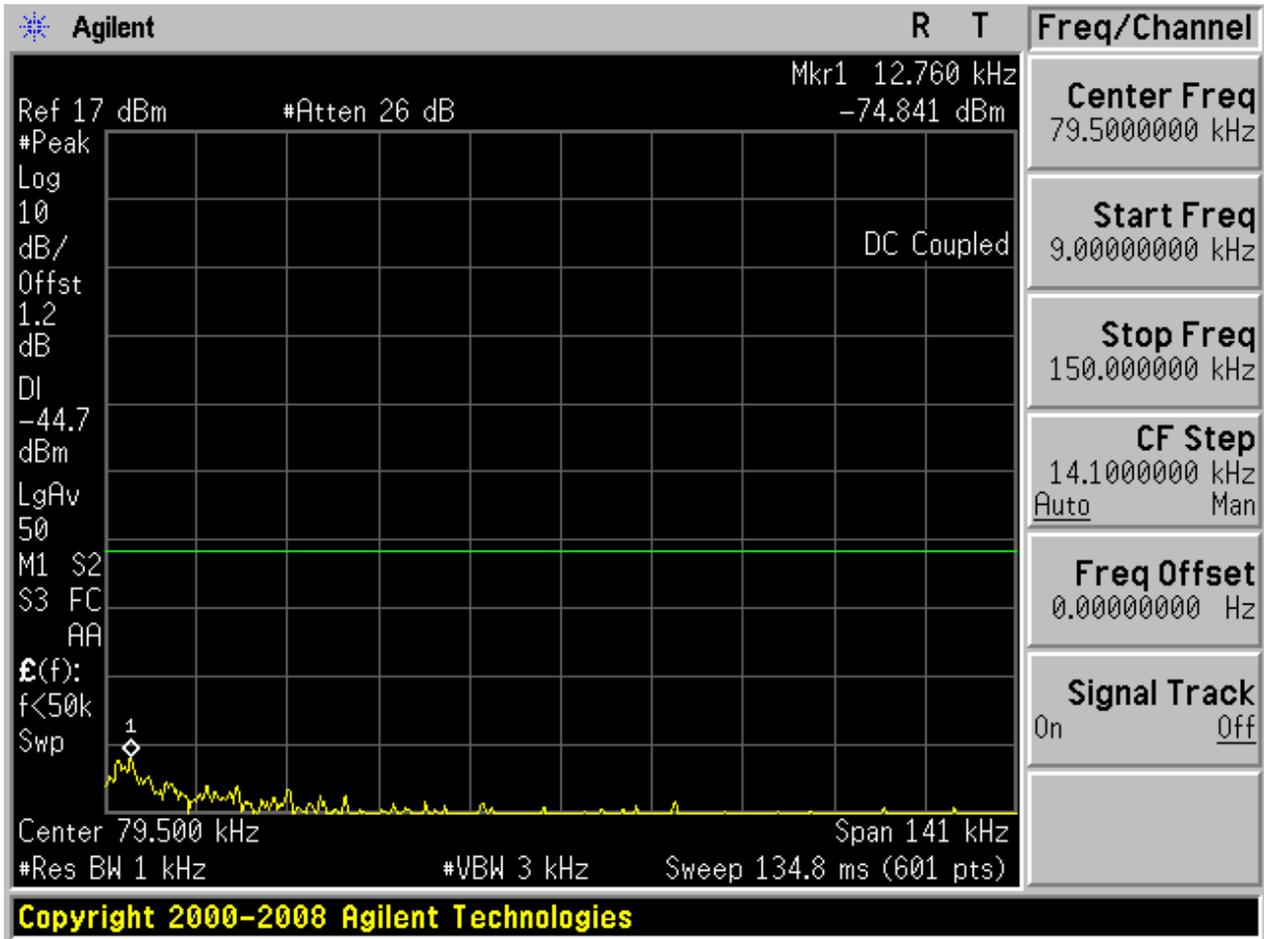
2.5 11B_H@Ant 1

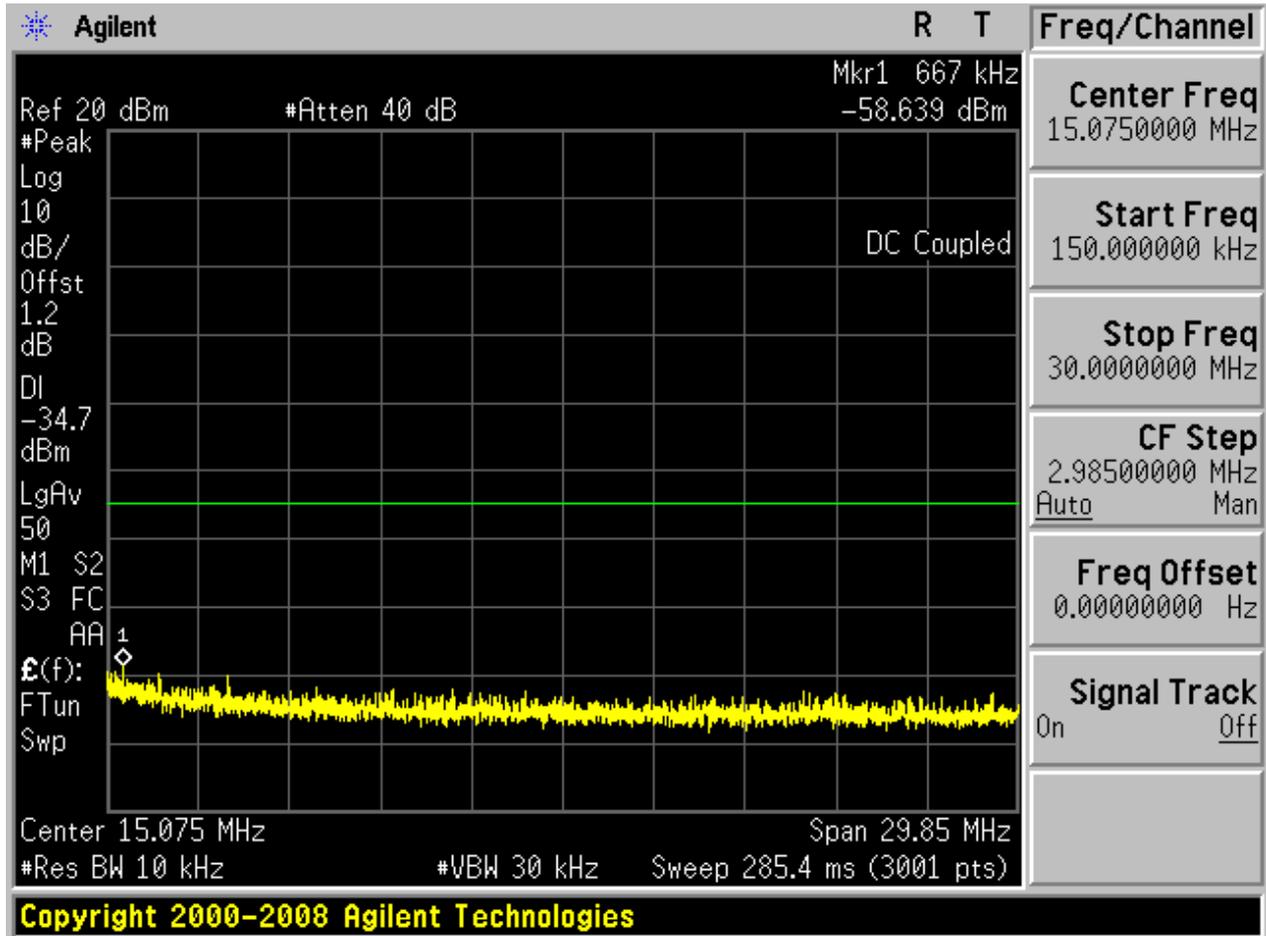
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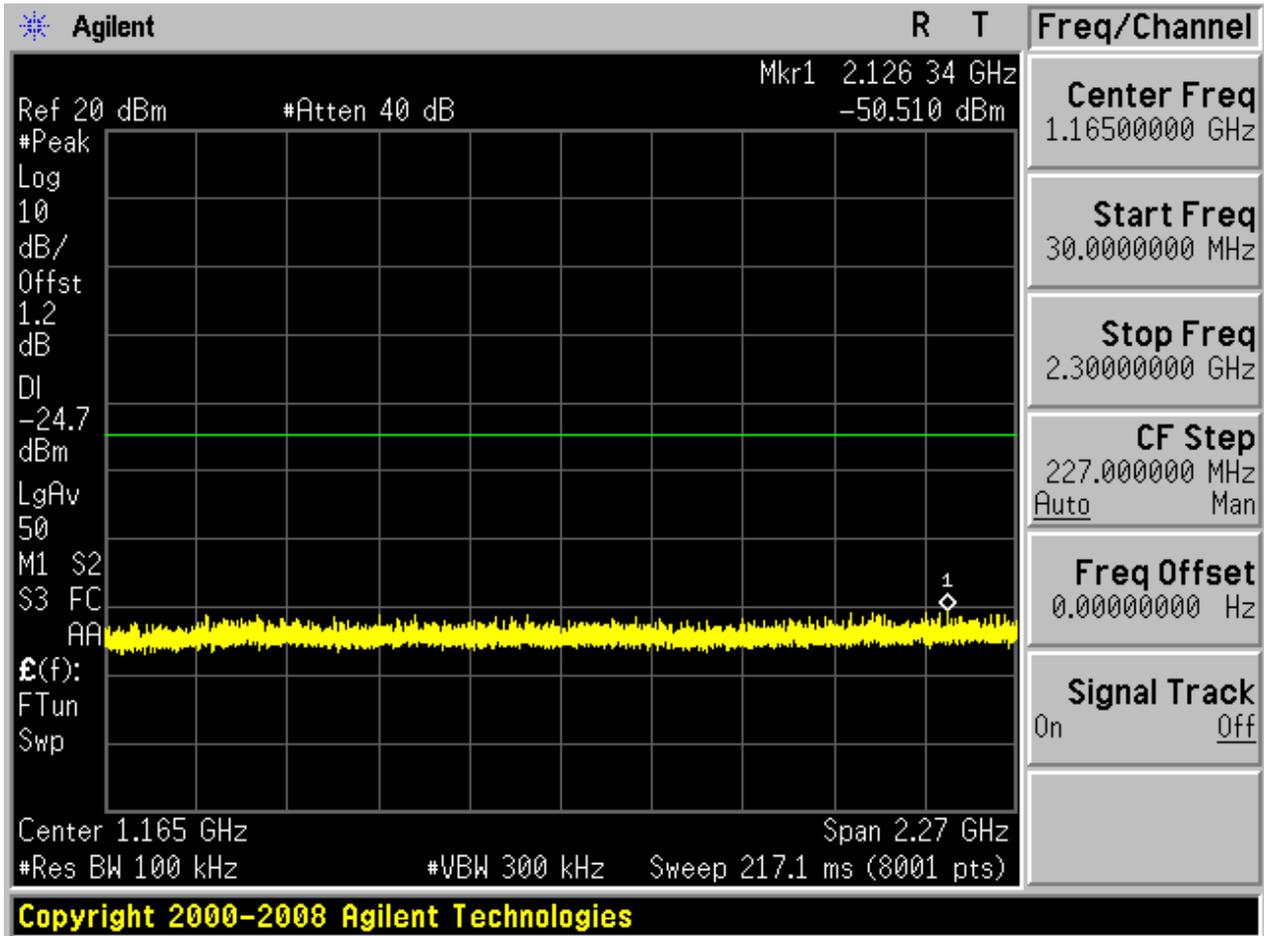


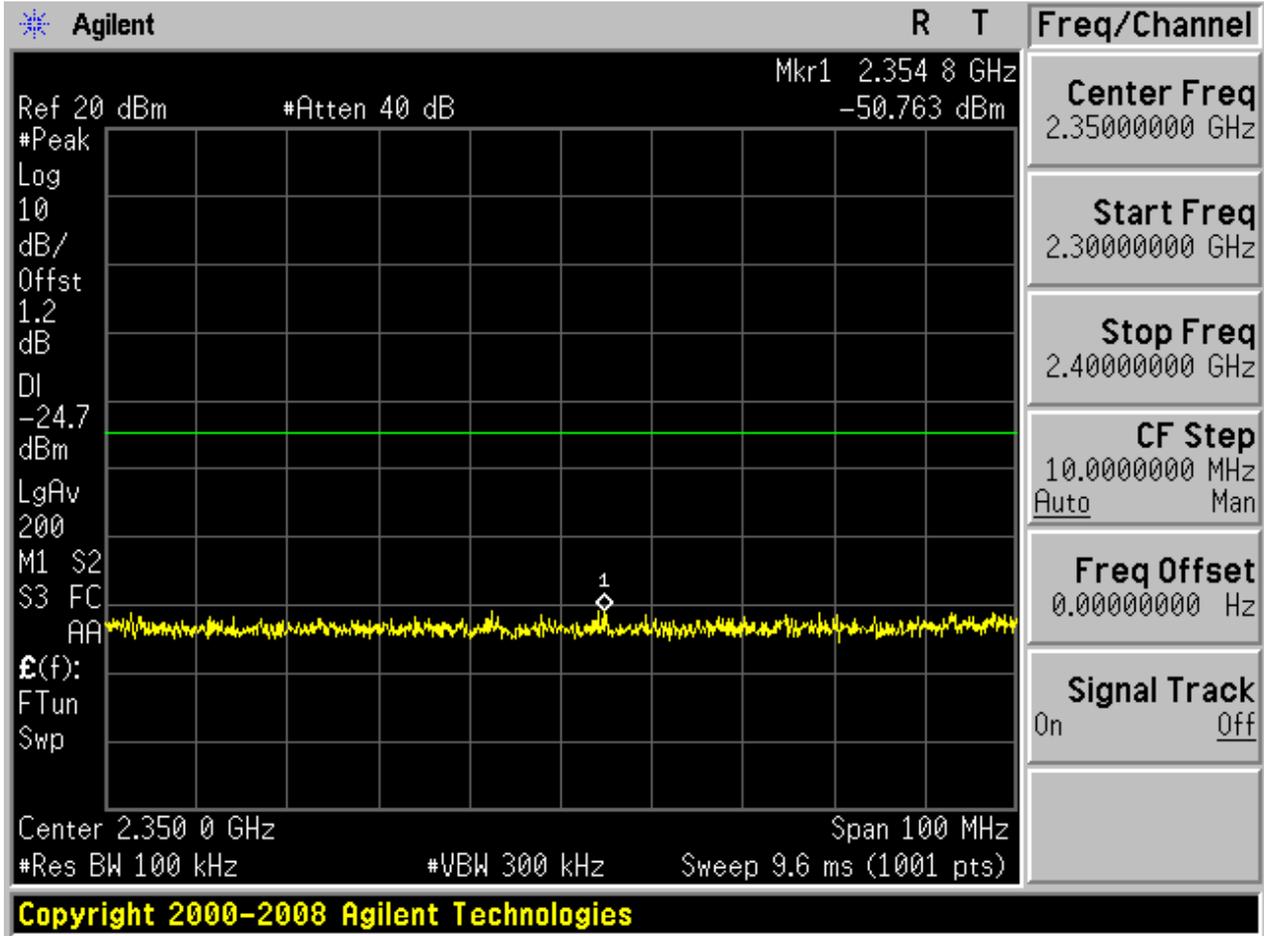


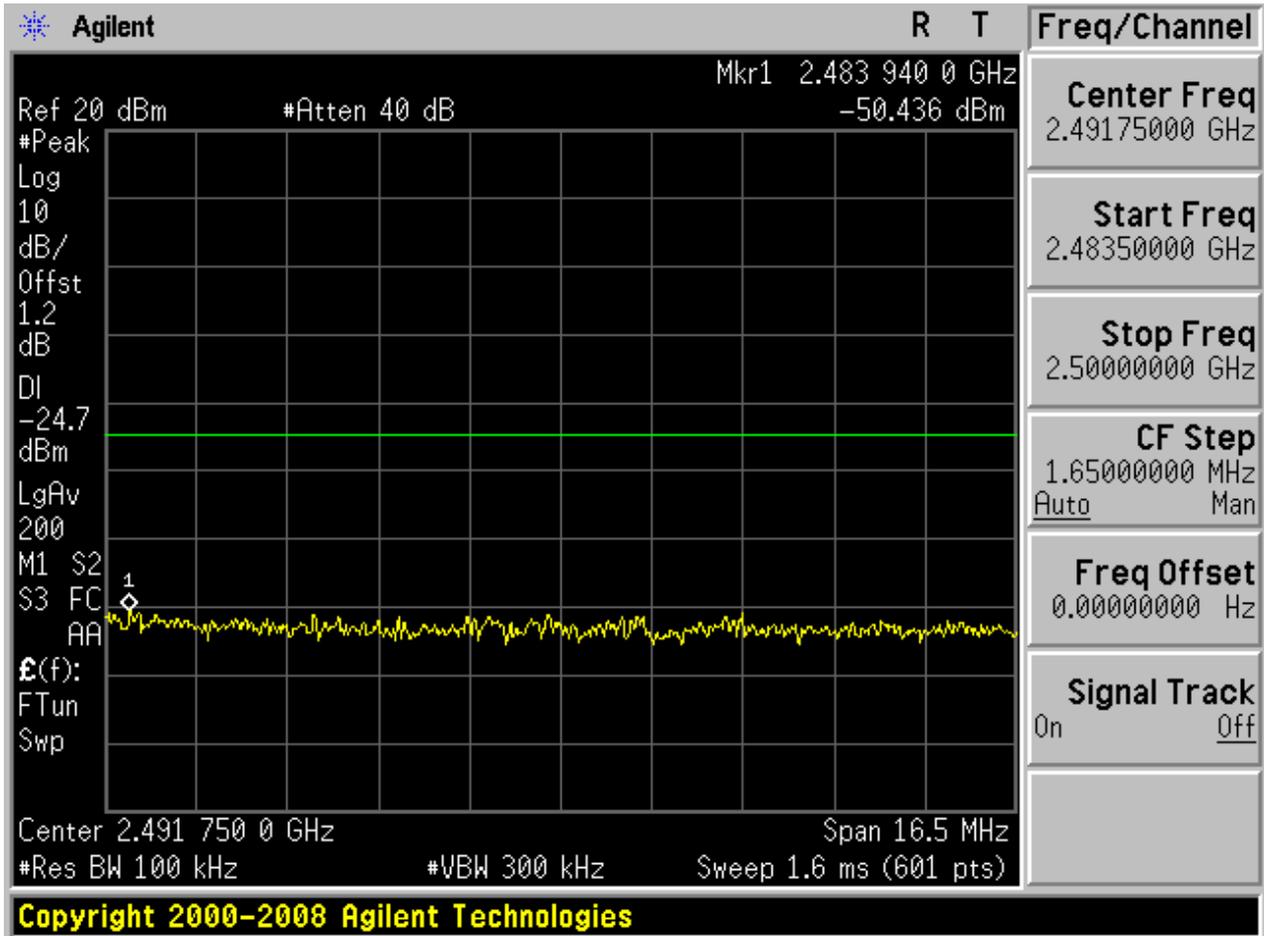
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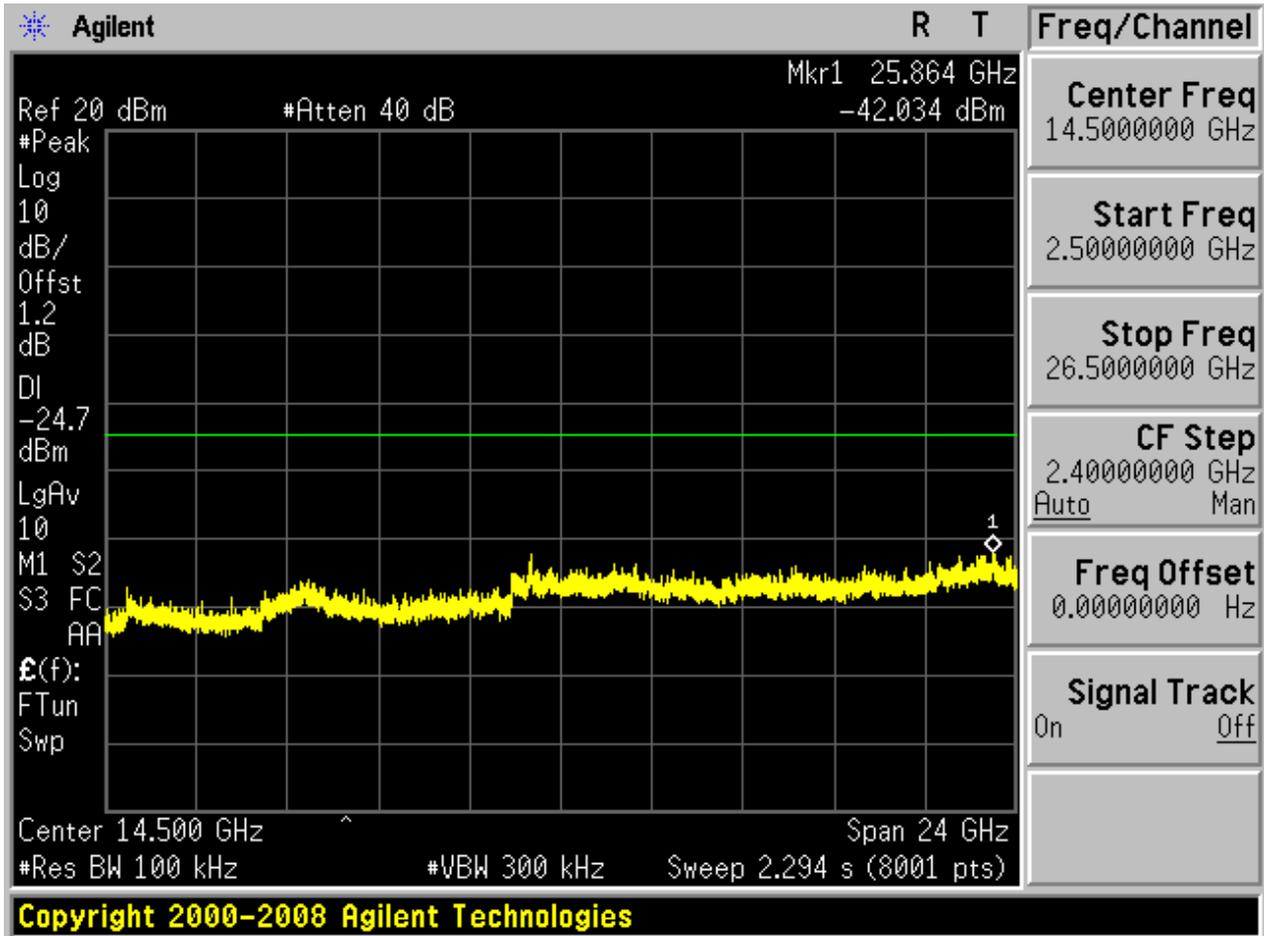








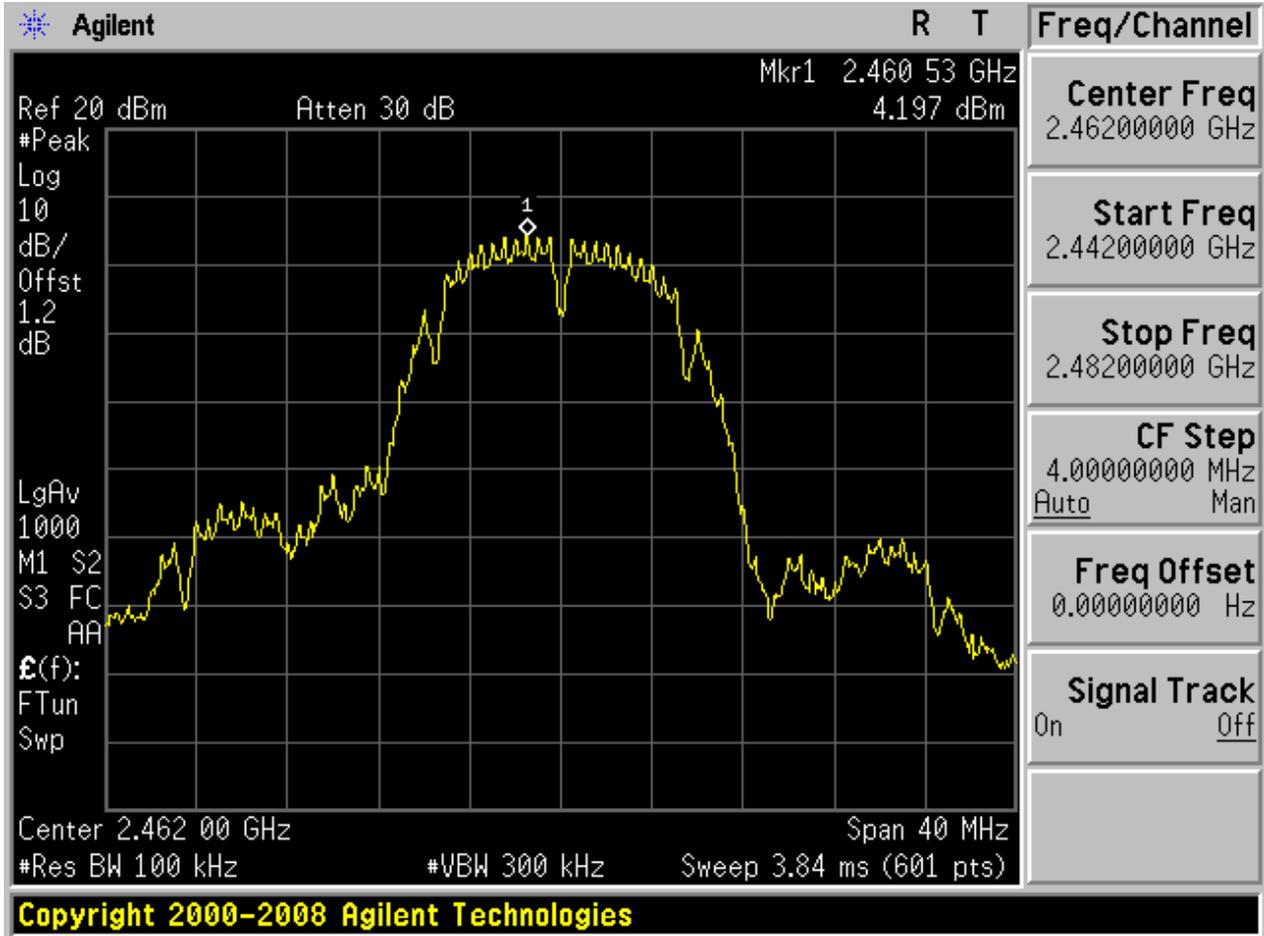






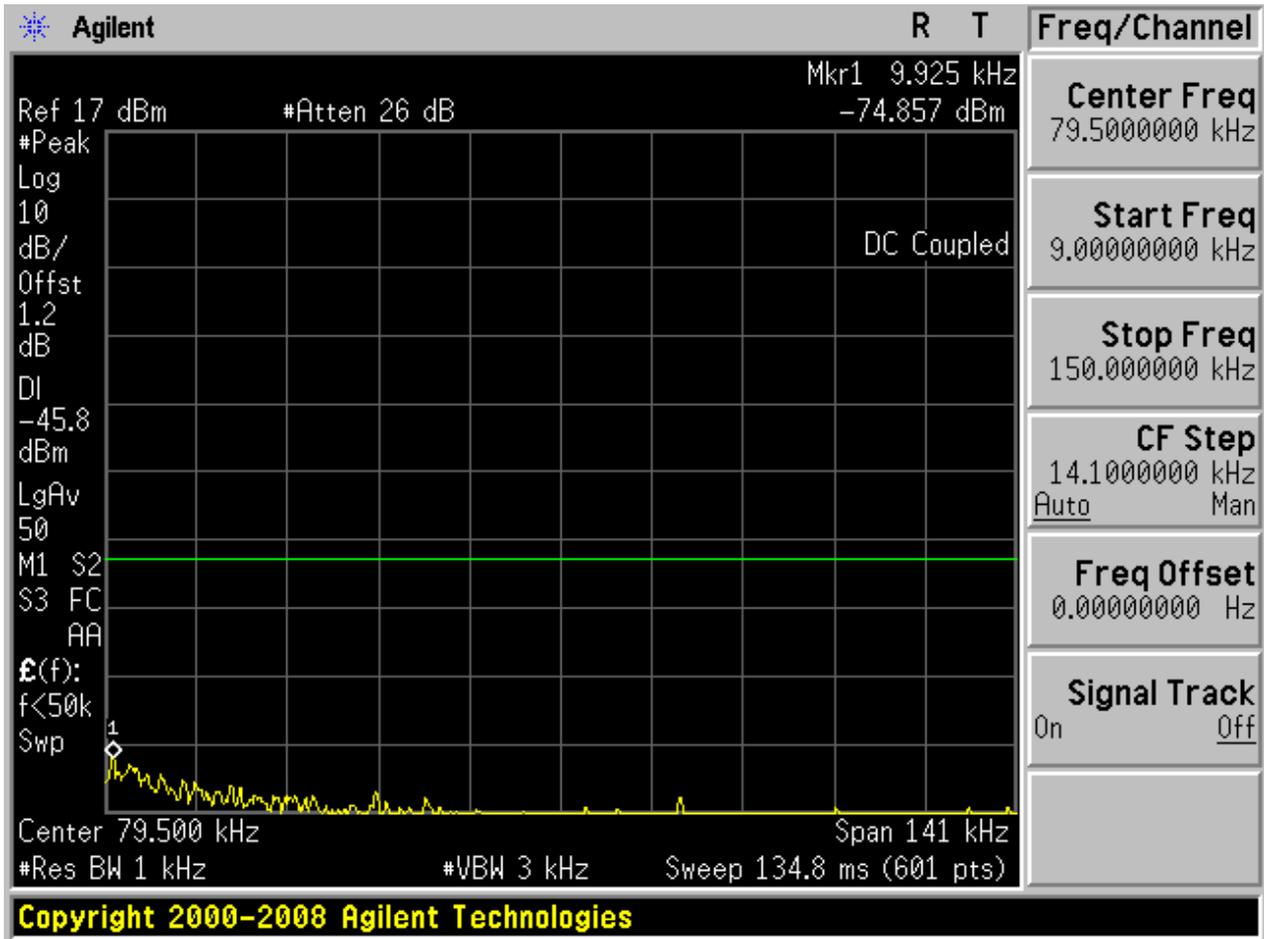
2.6 11B_H@Ant 2

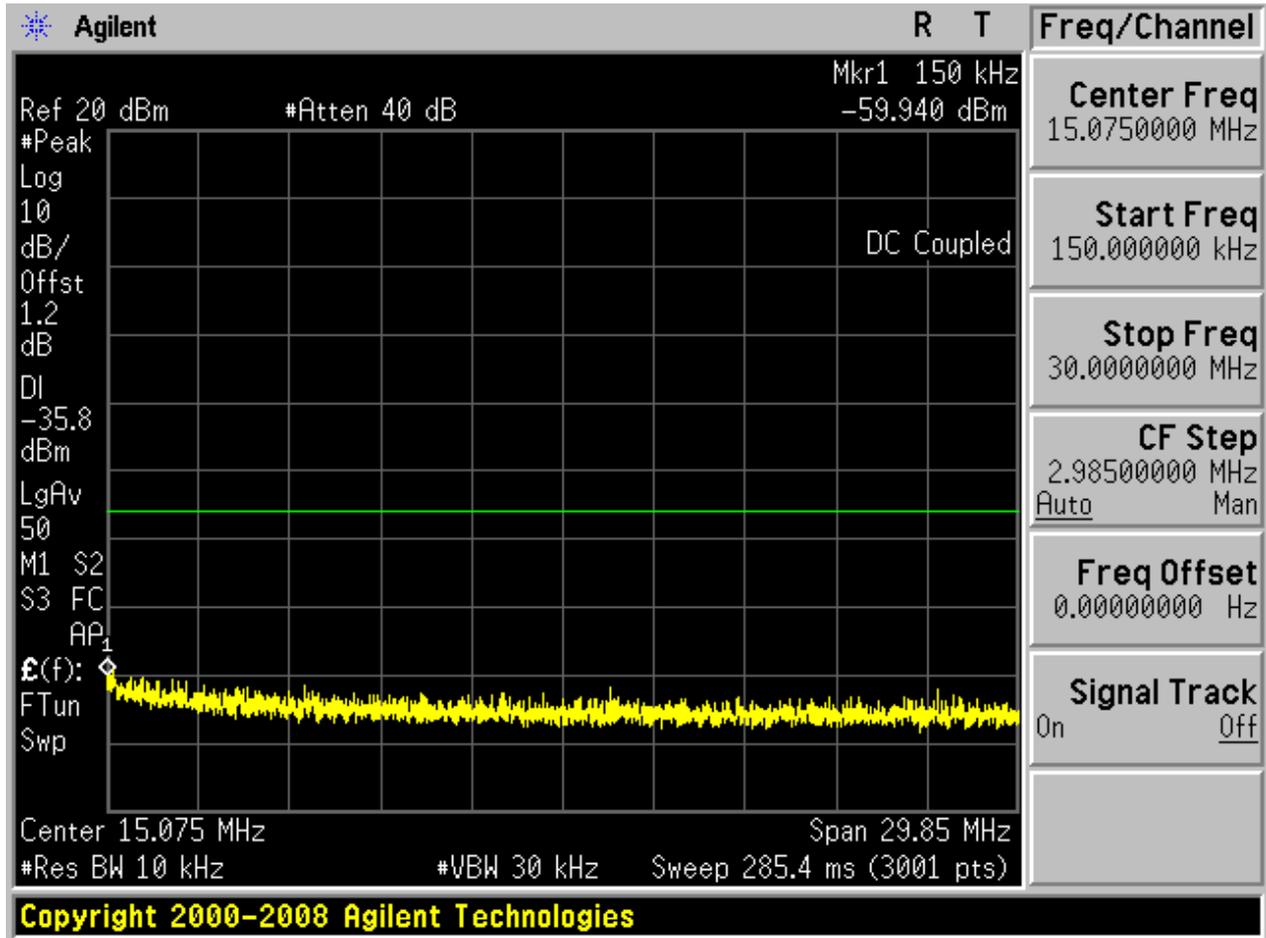
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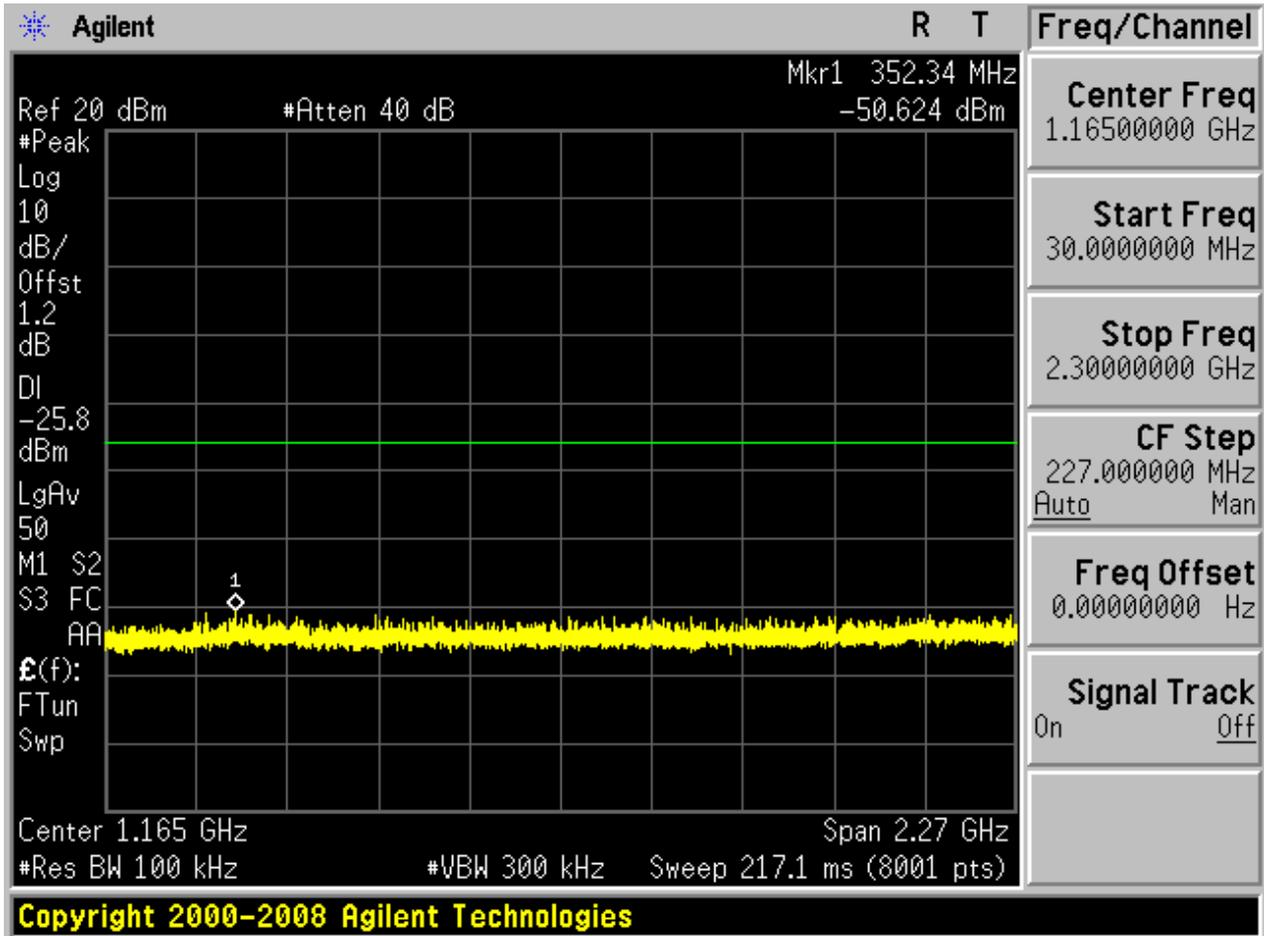


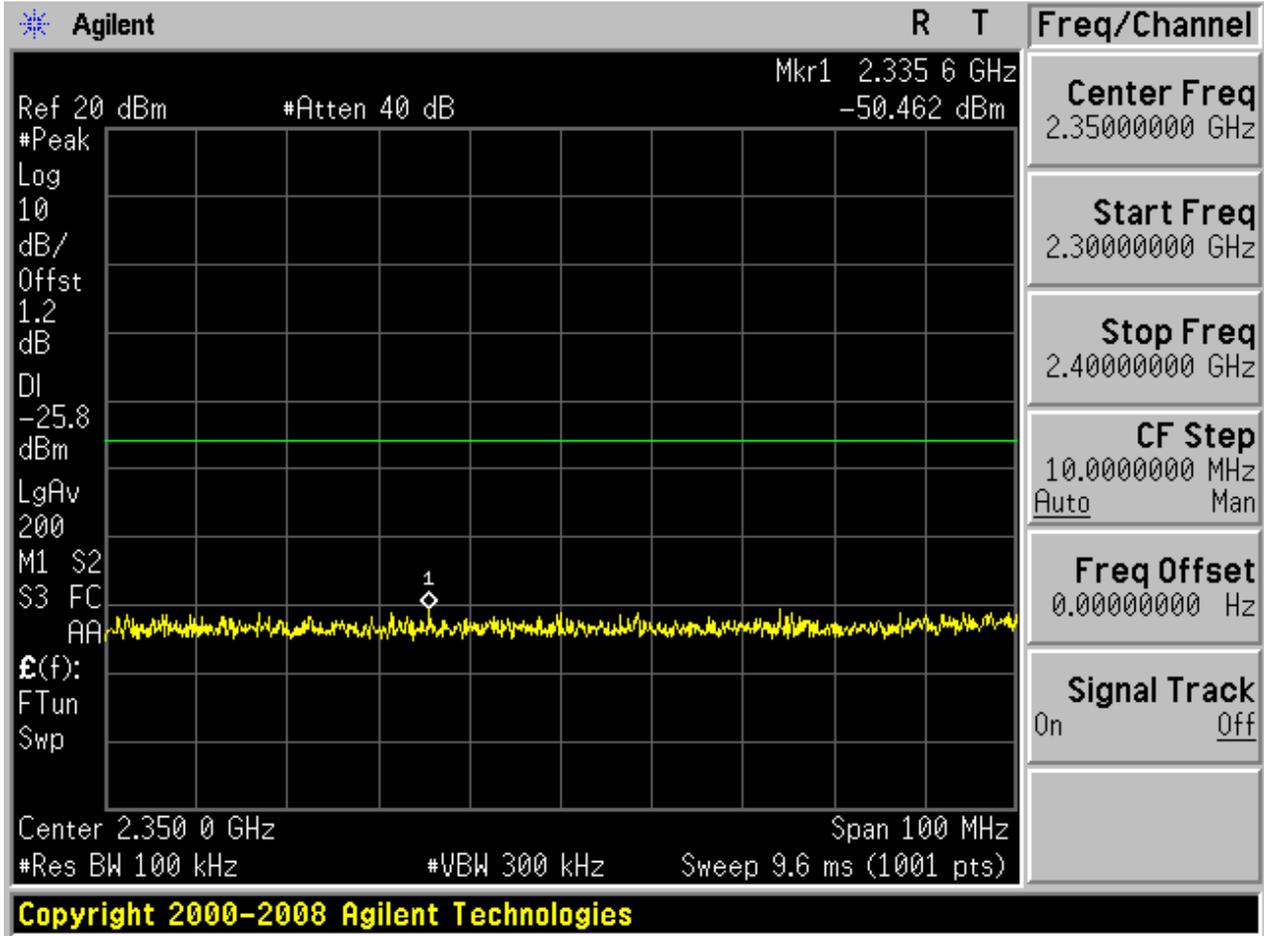


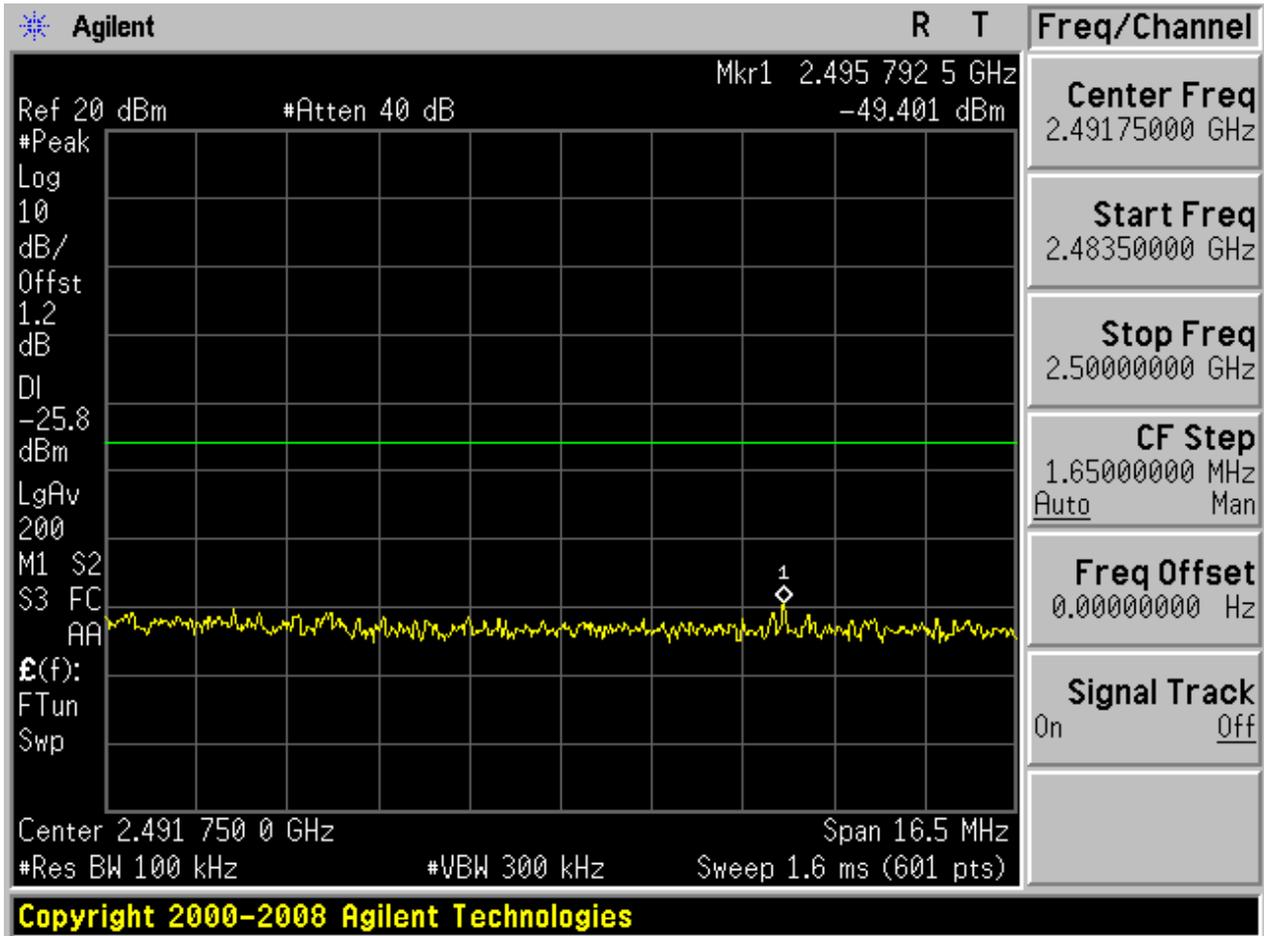
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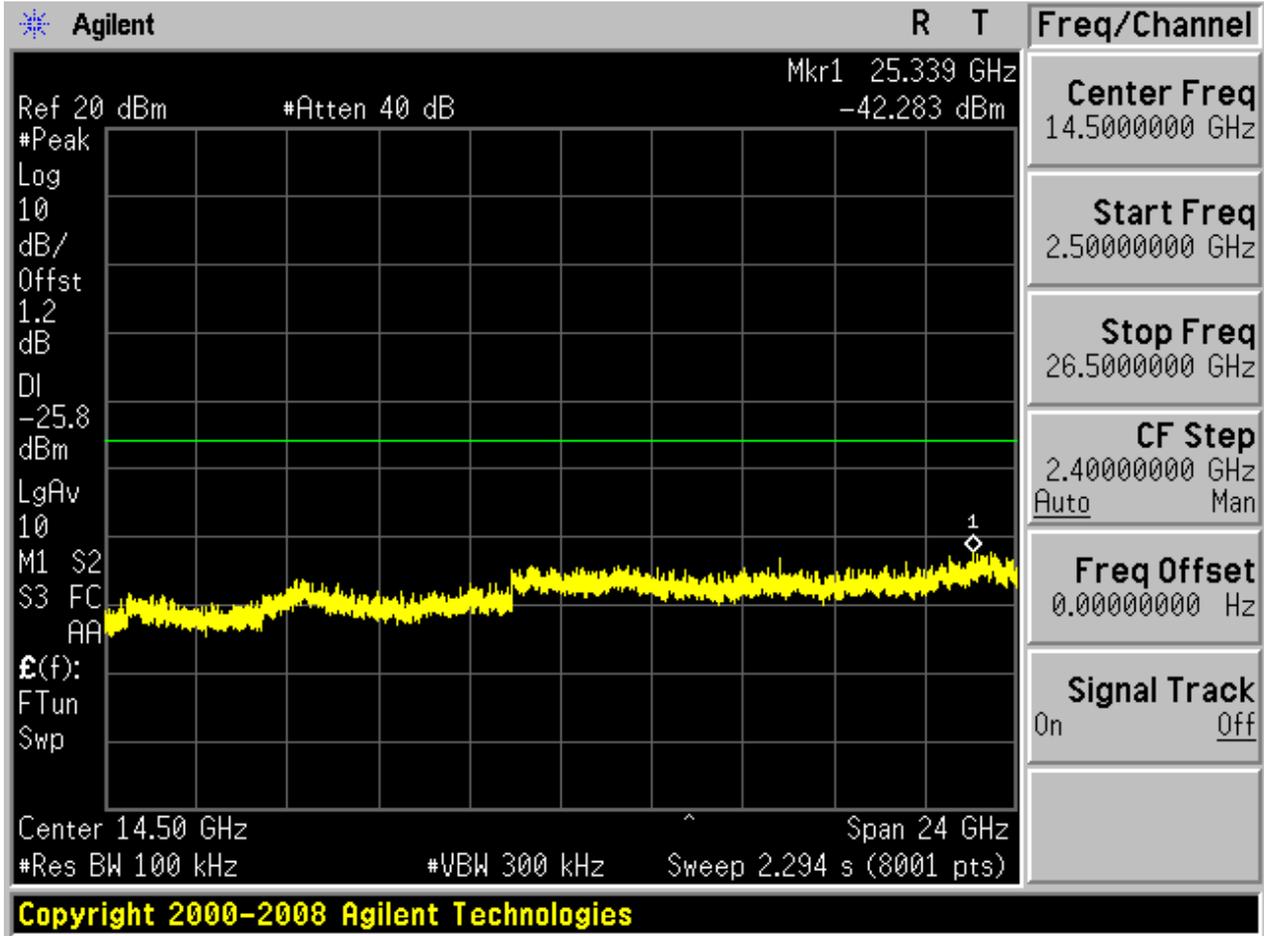








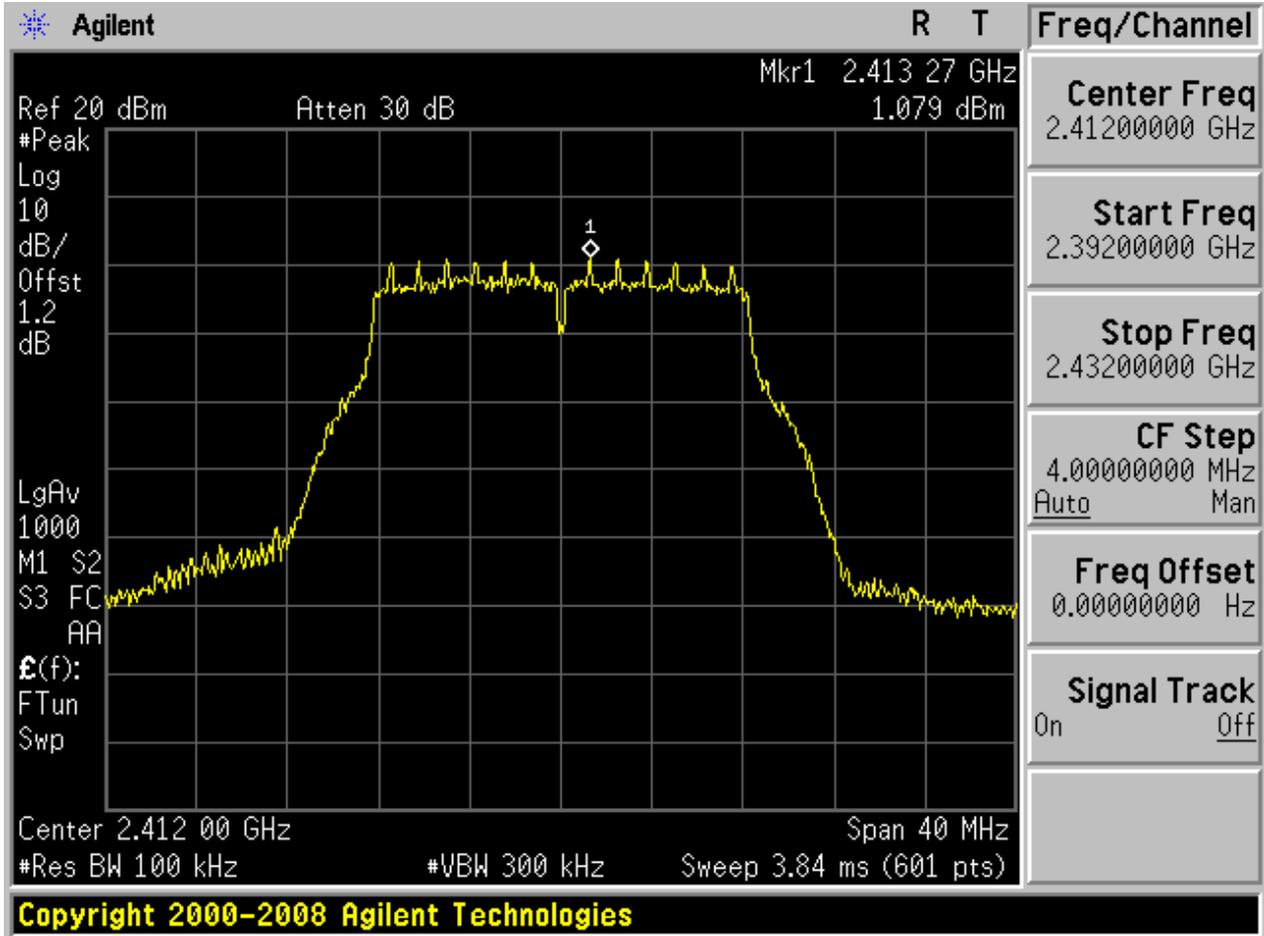






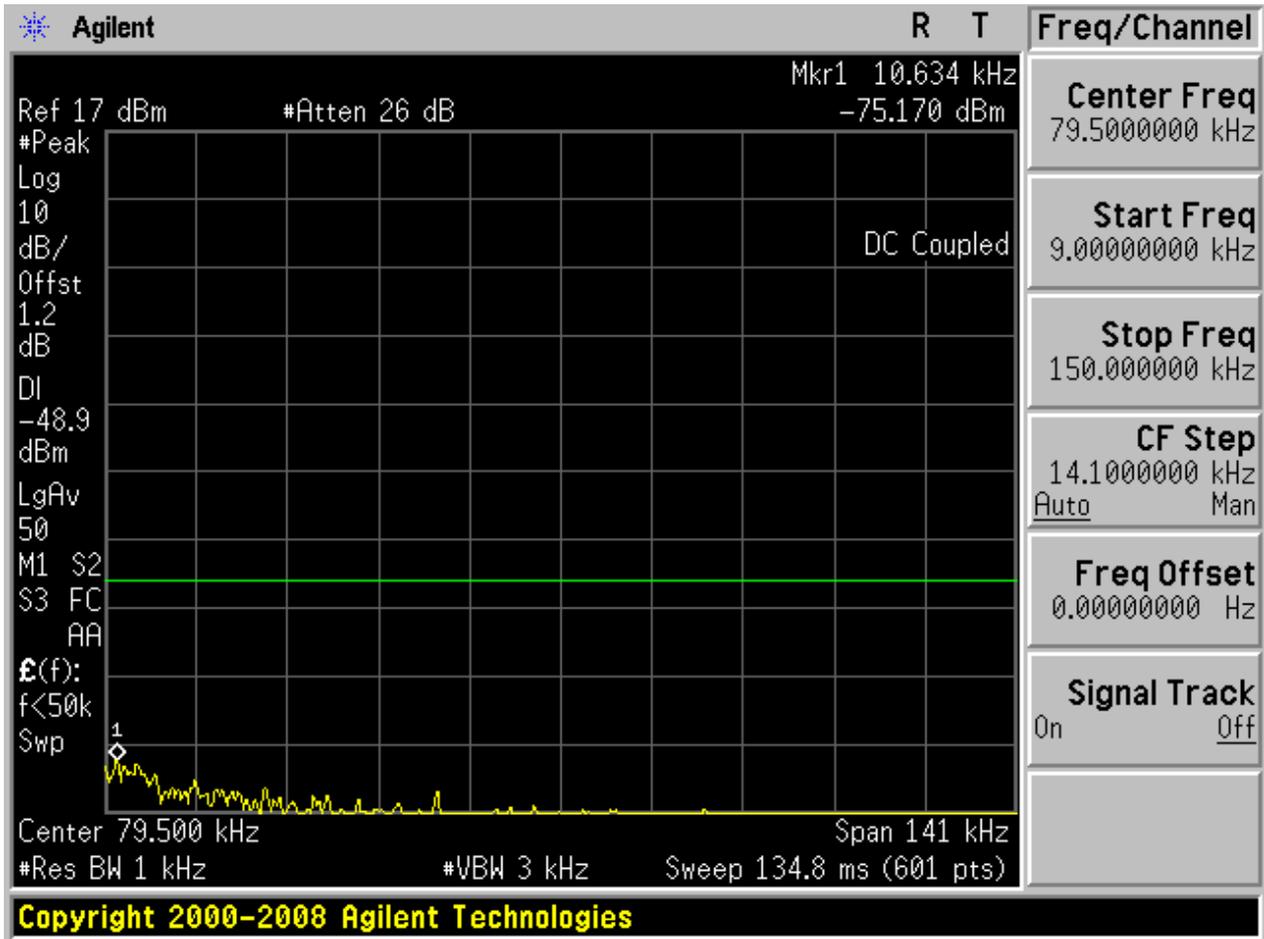
2.7 11G_L@Ant 1

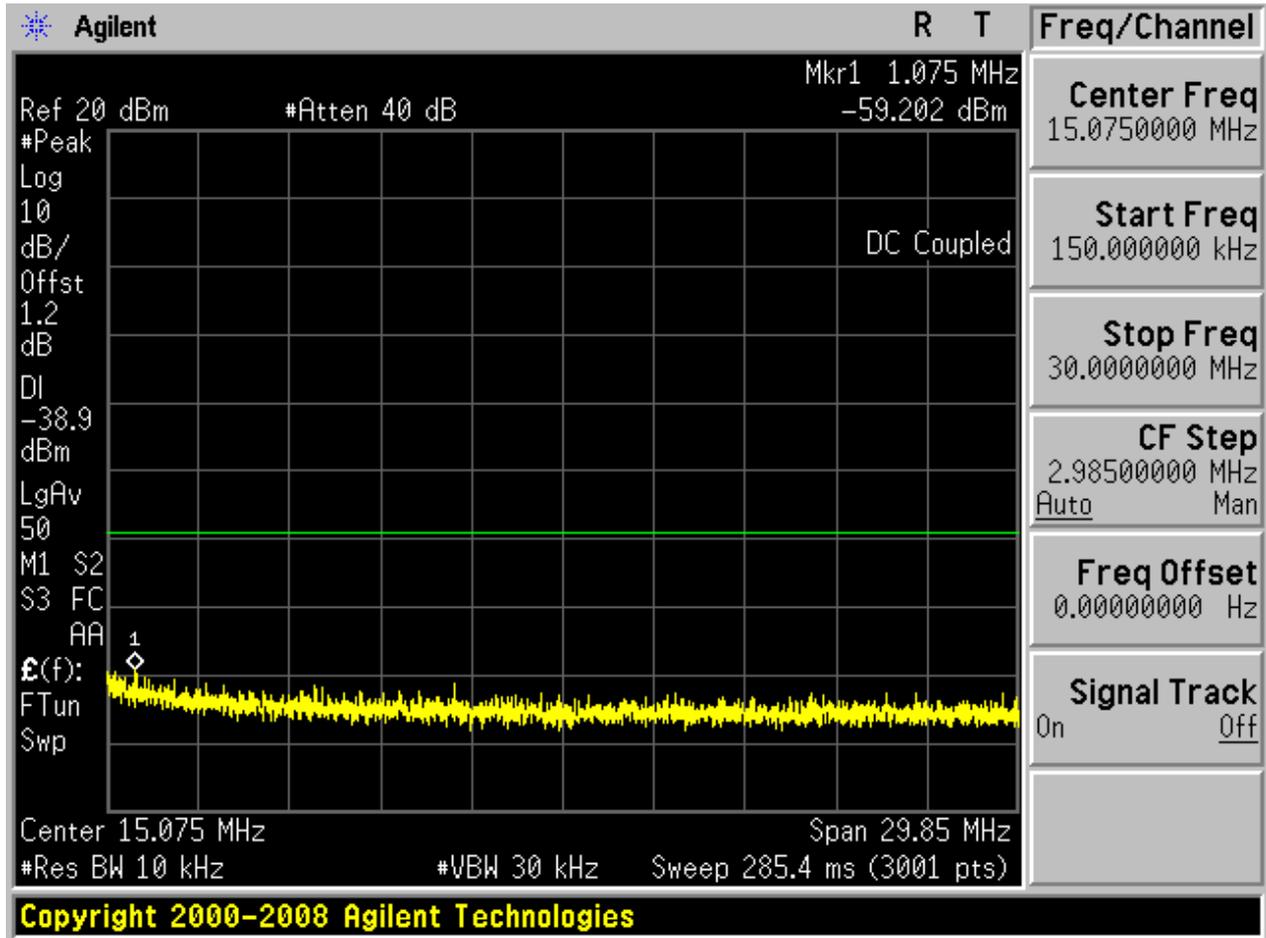
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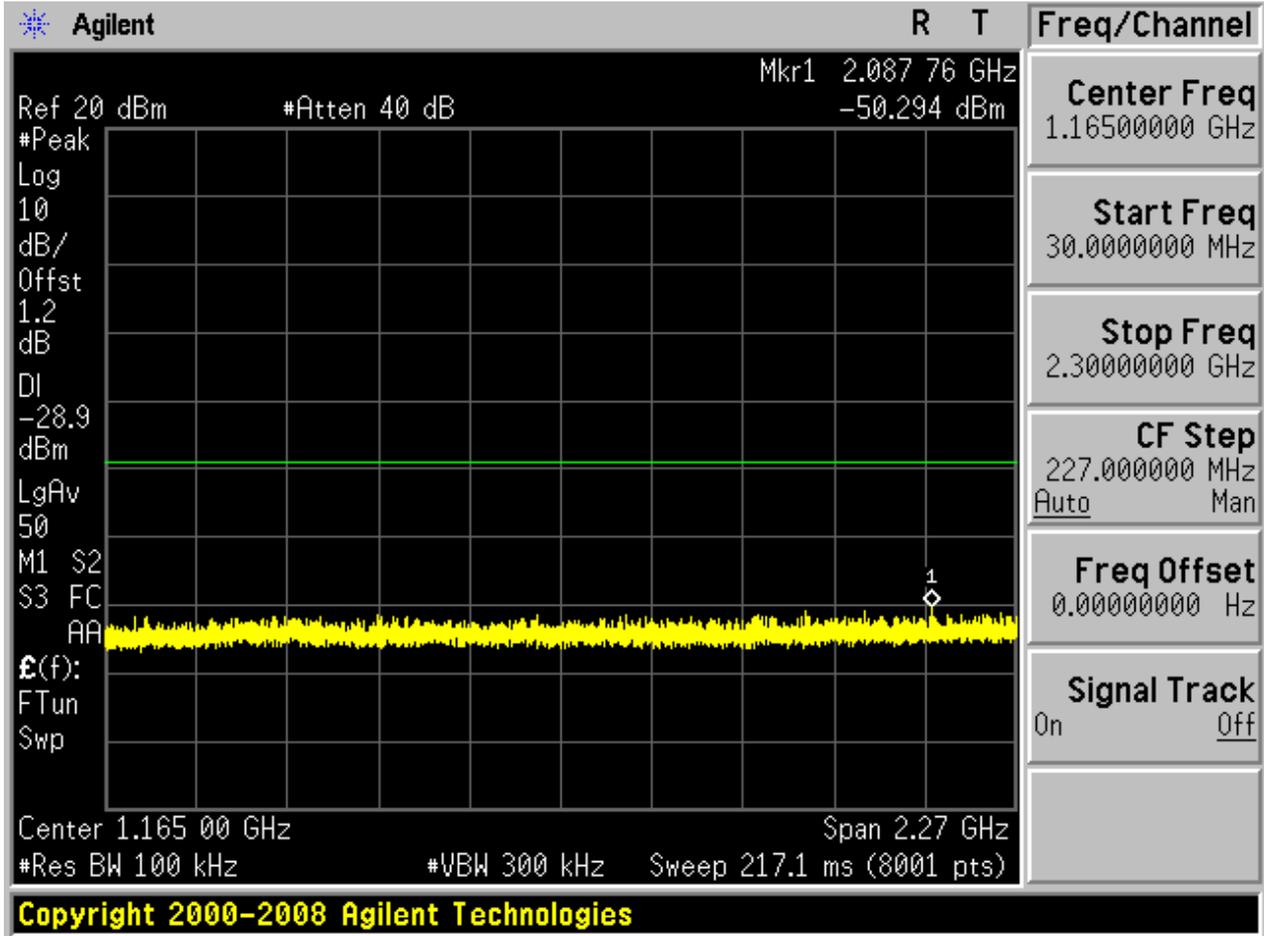


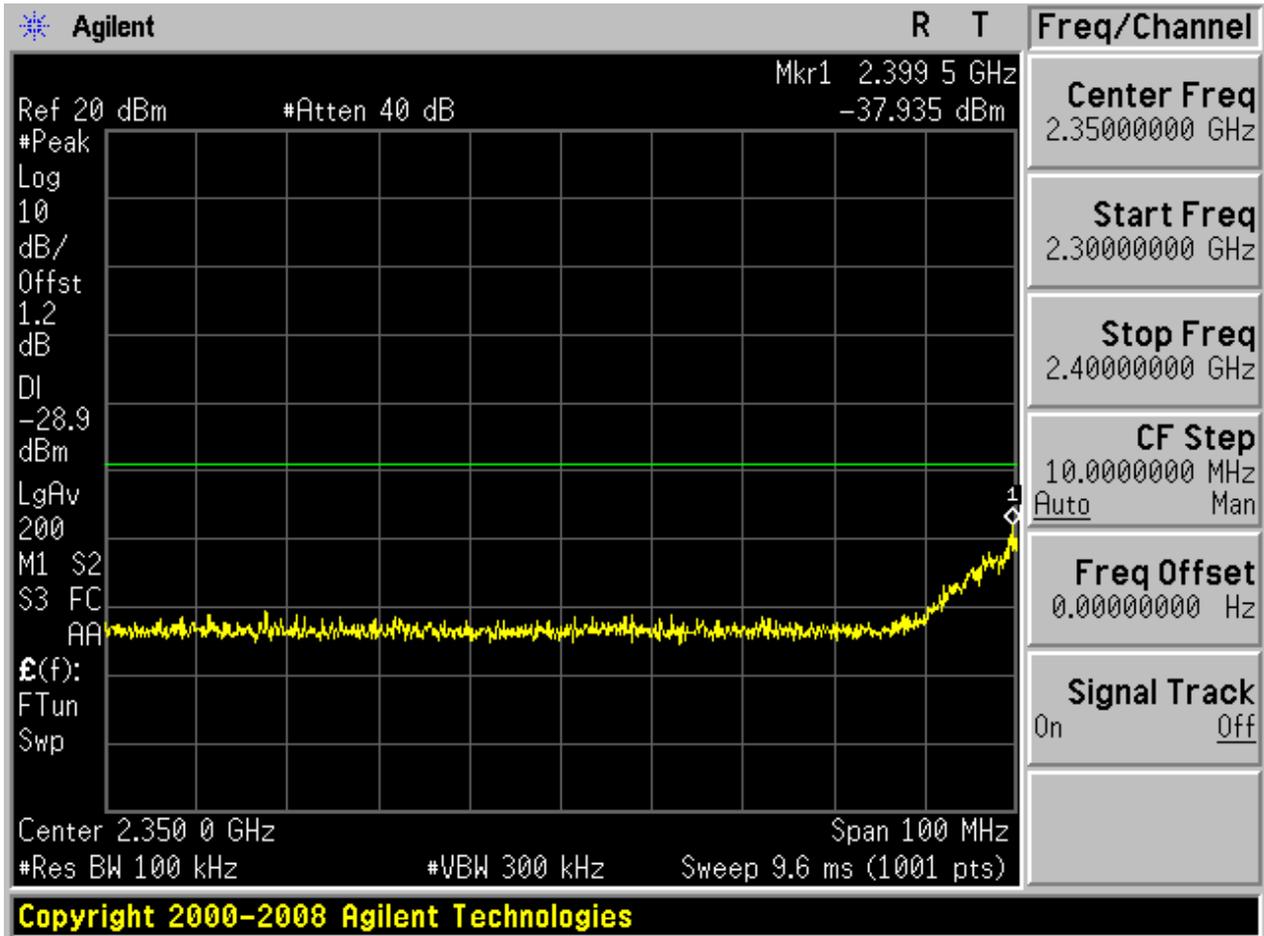


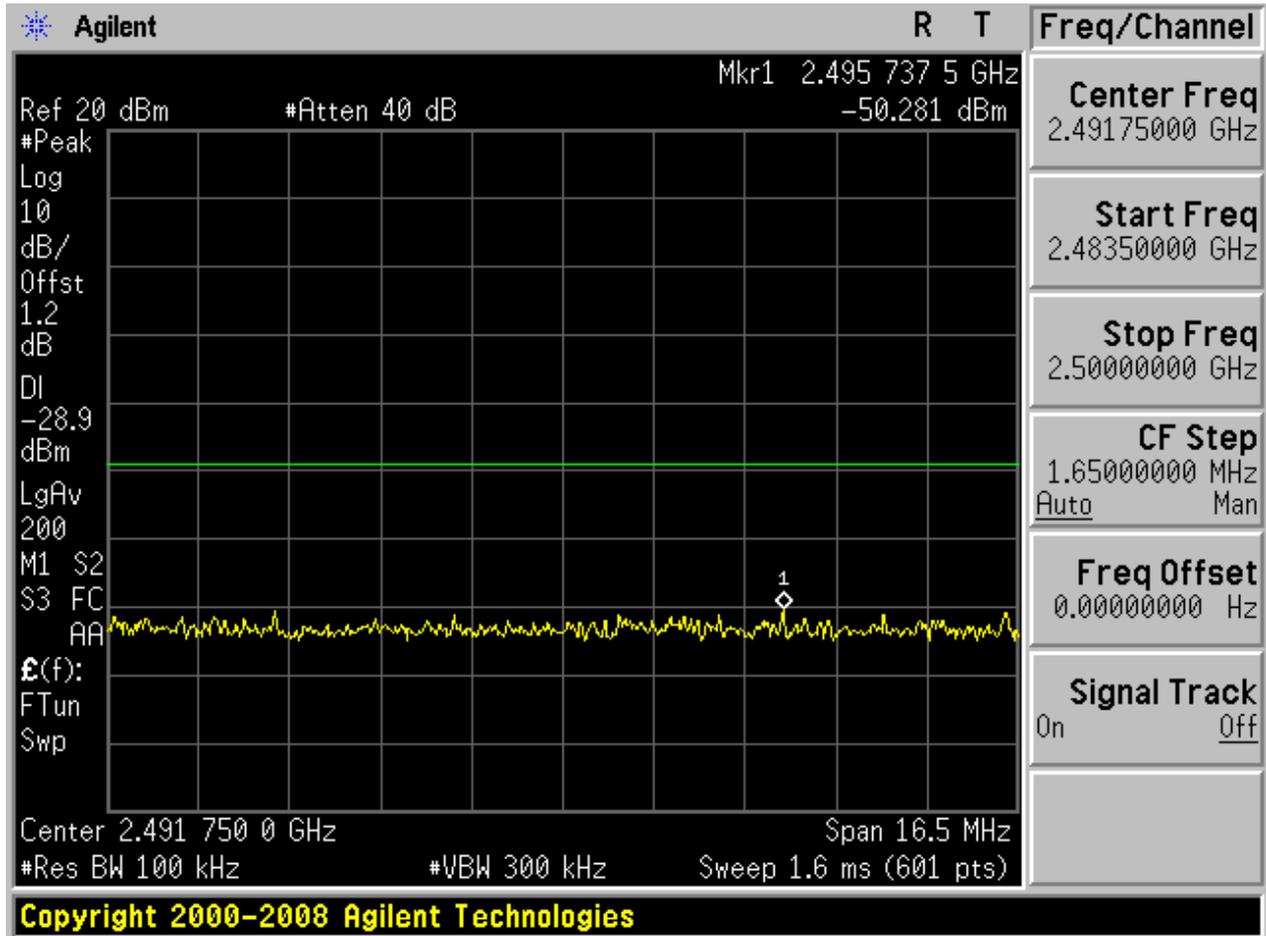
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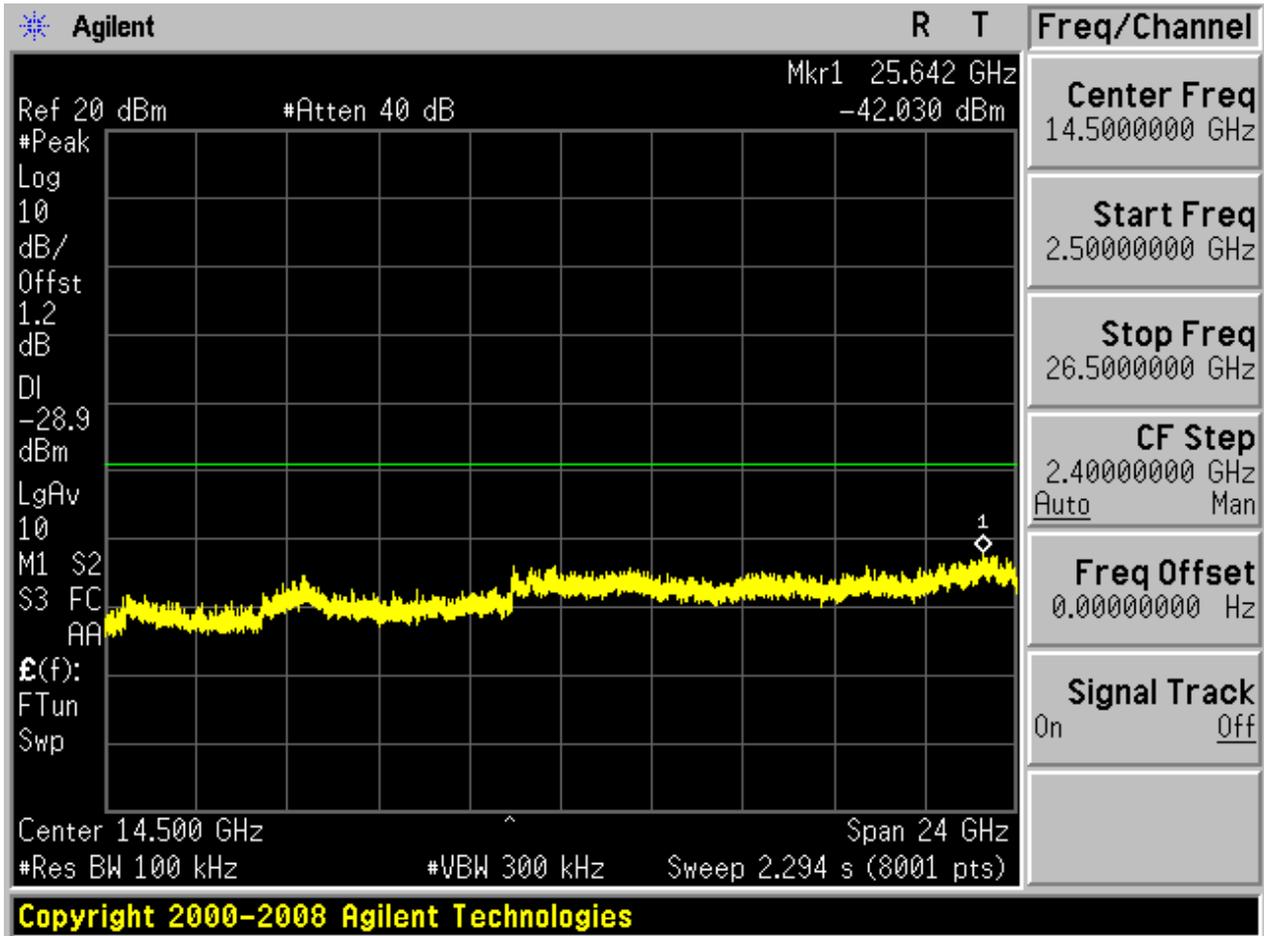








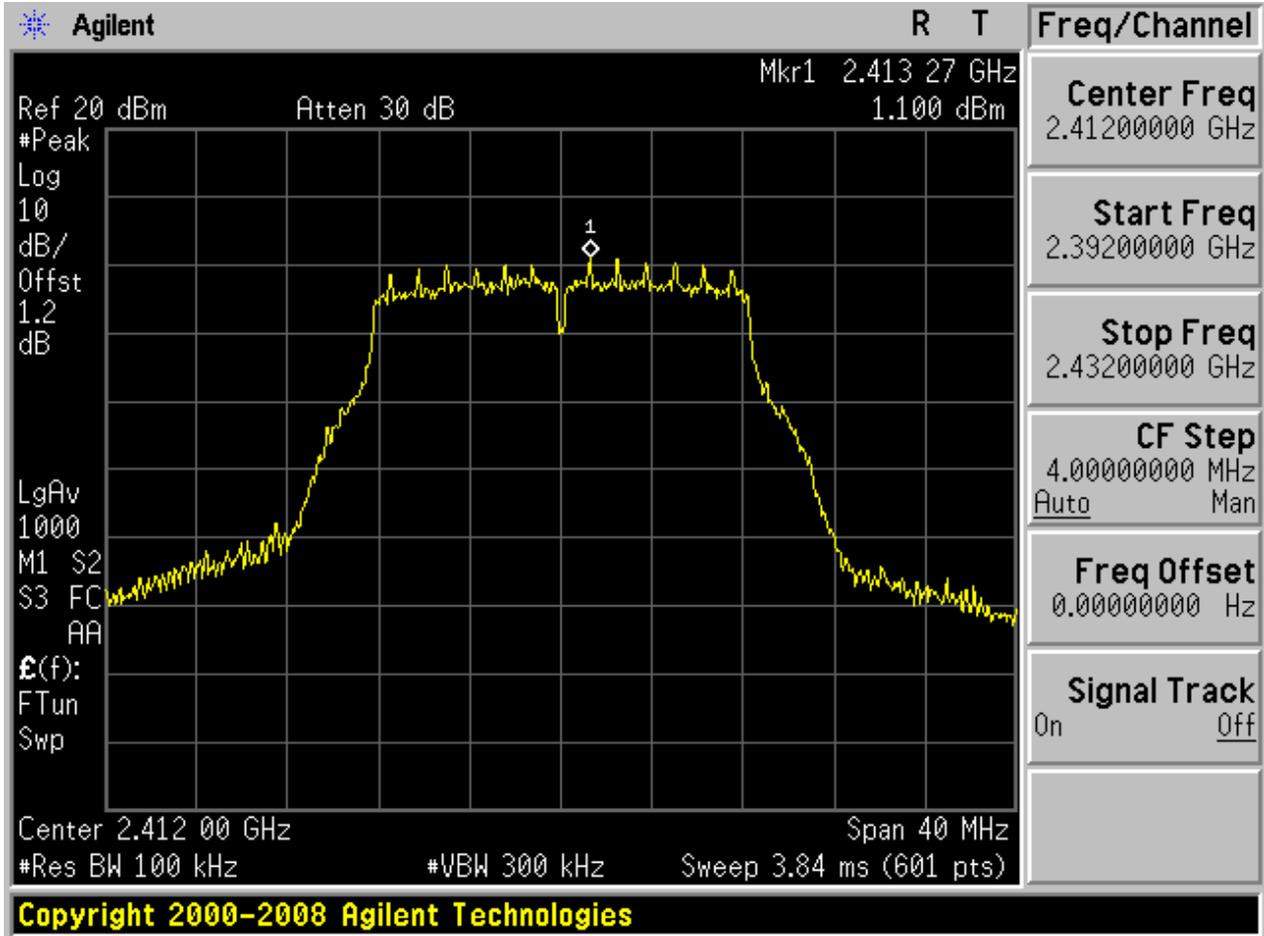






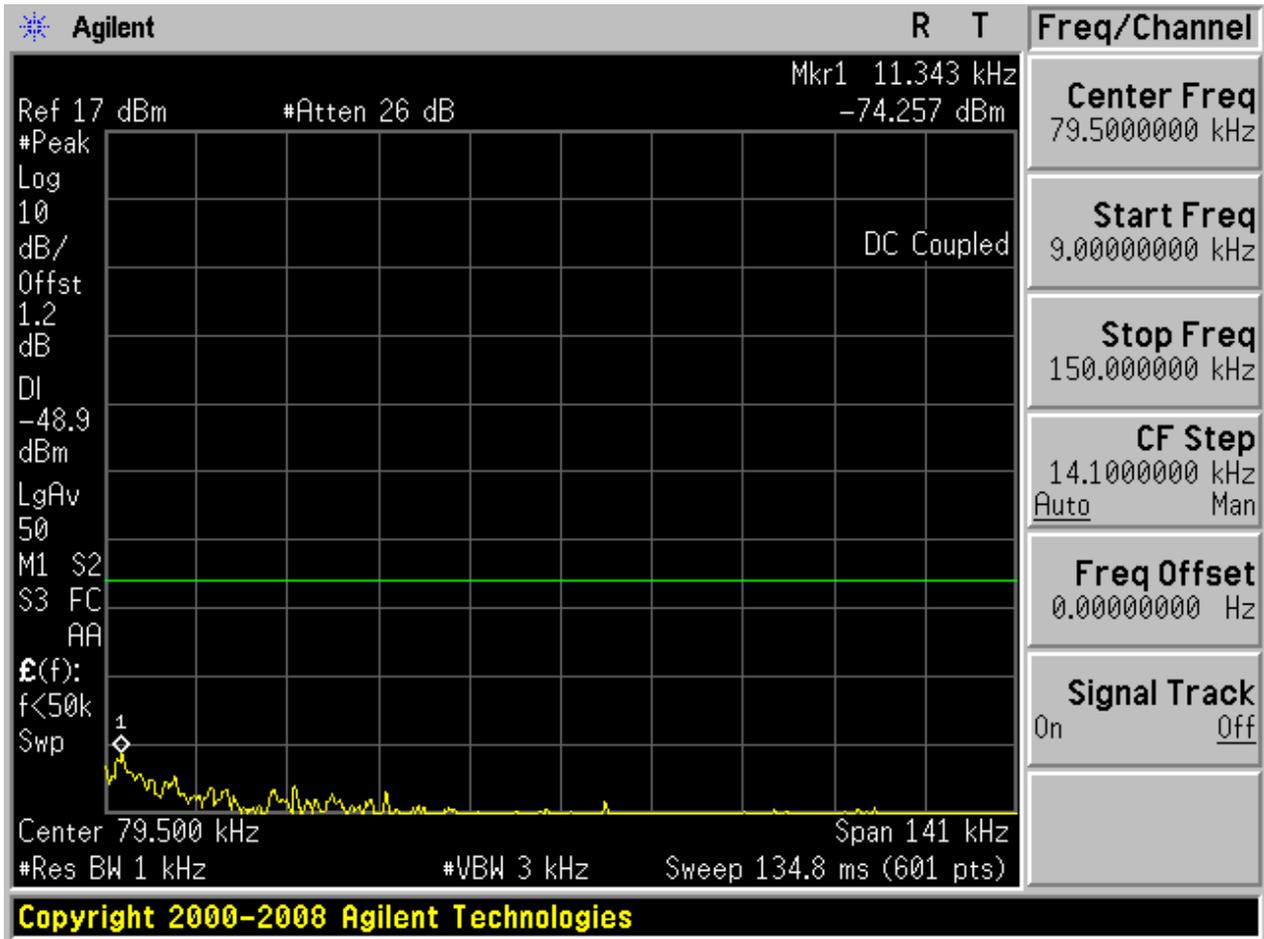
2.8 11G_L@Ant 2

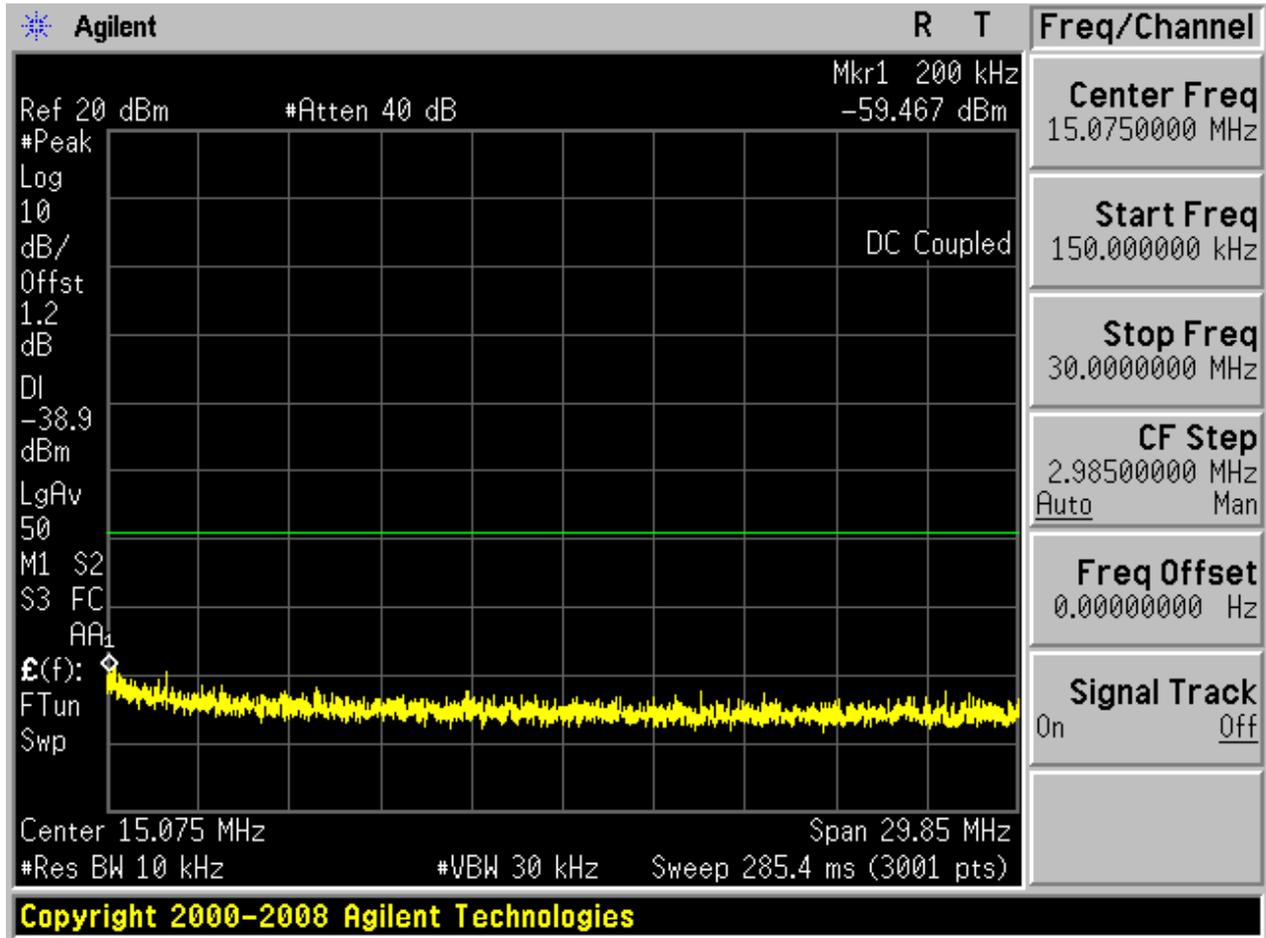
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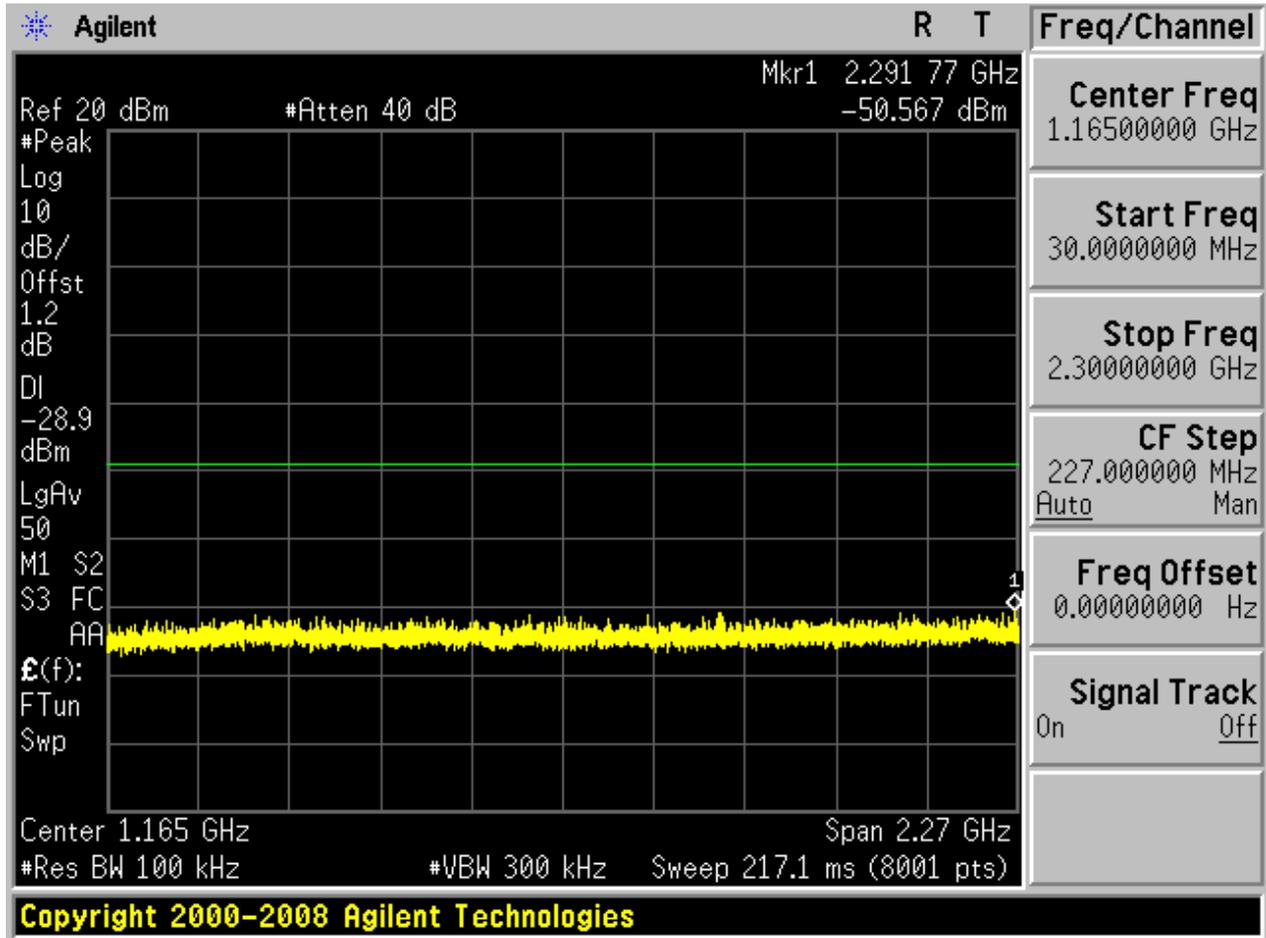


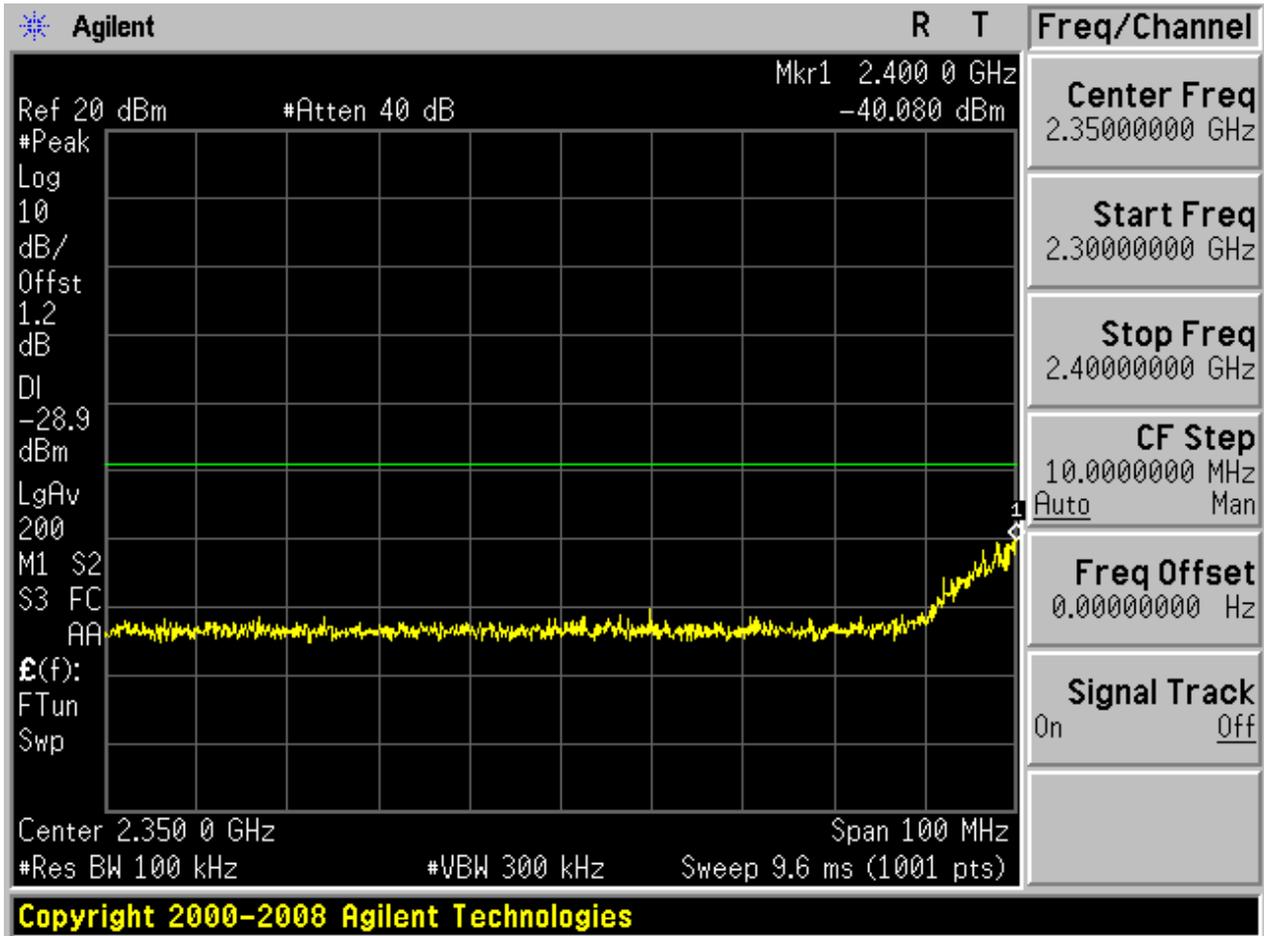


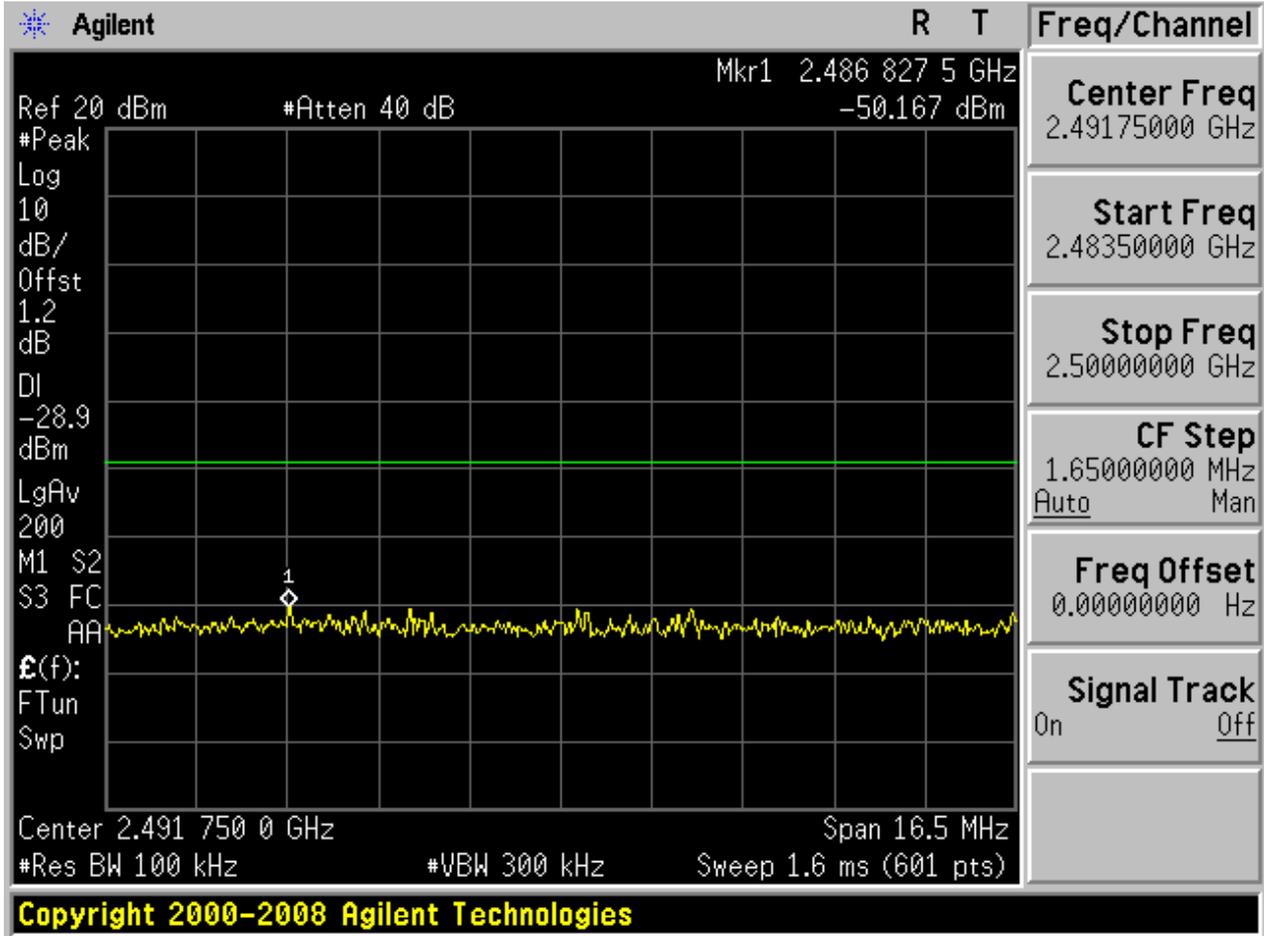
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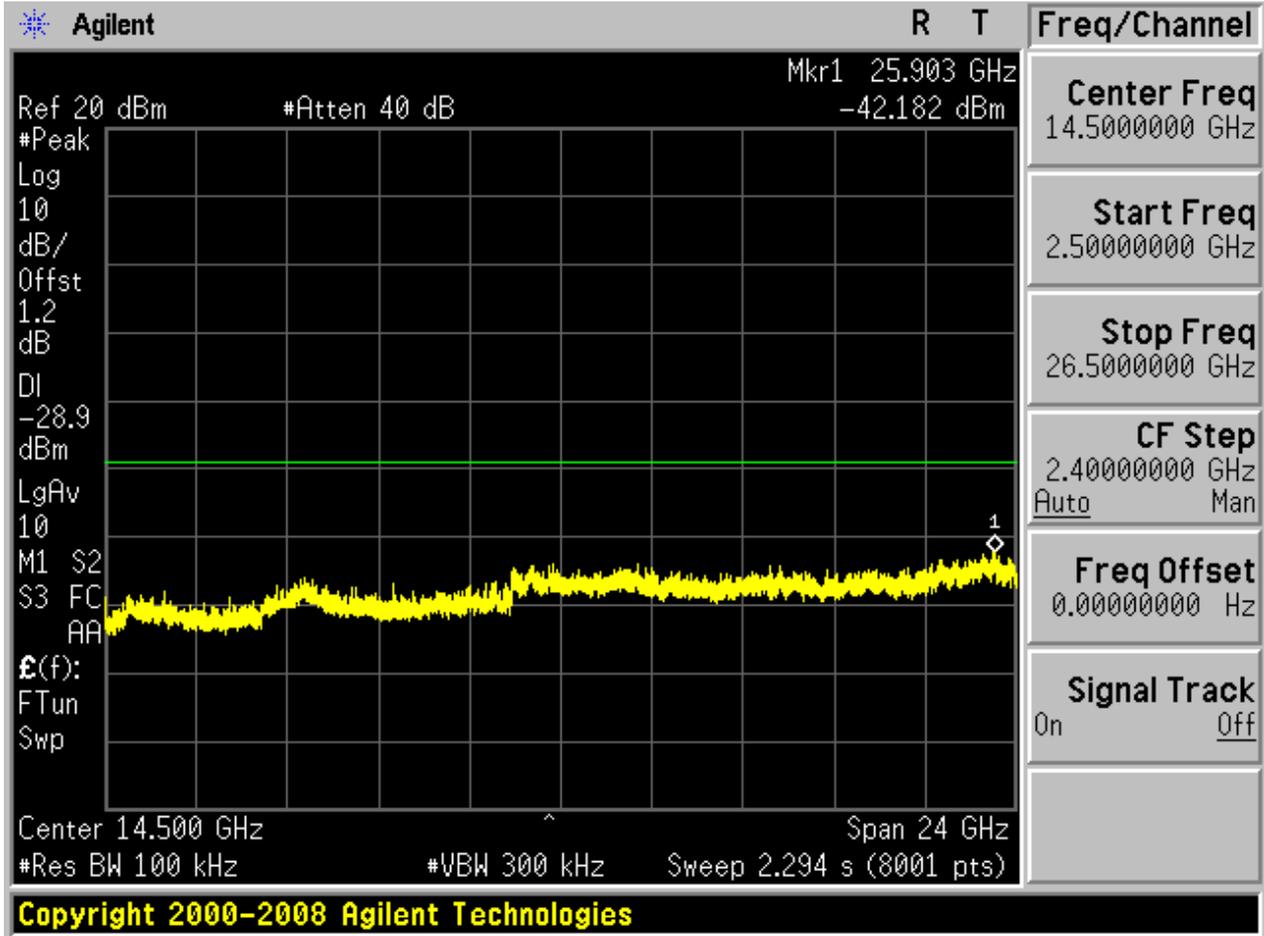








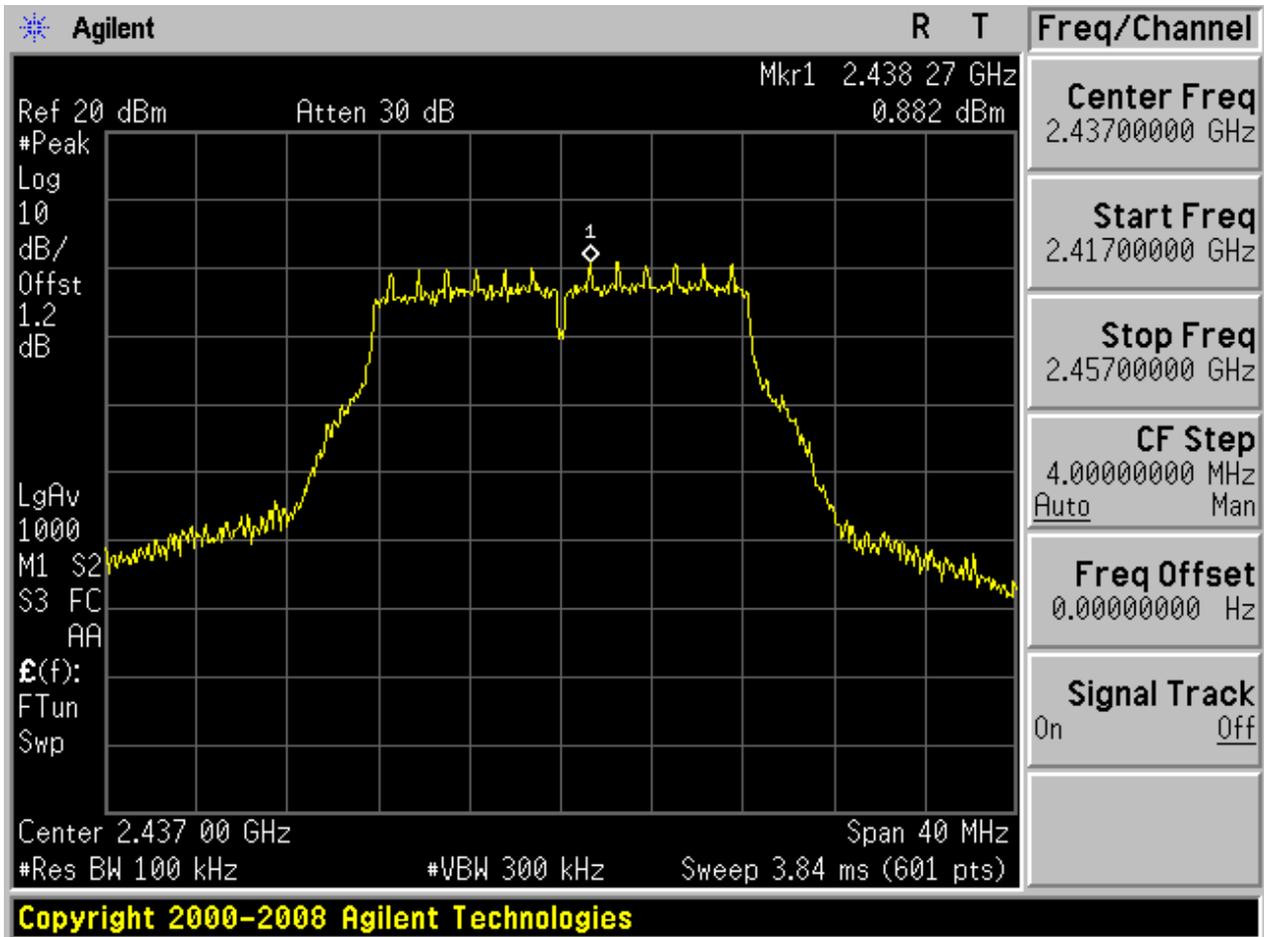






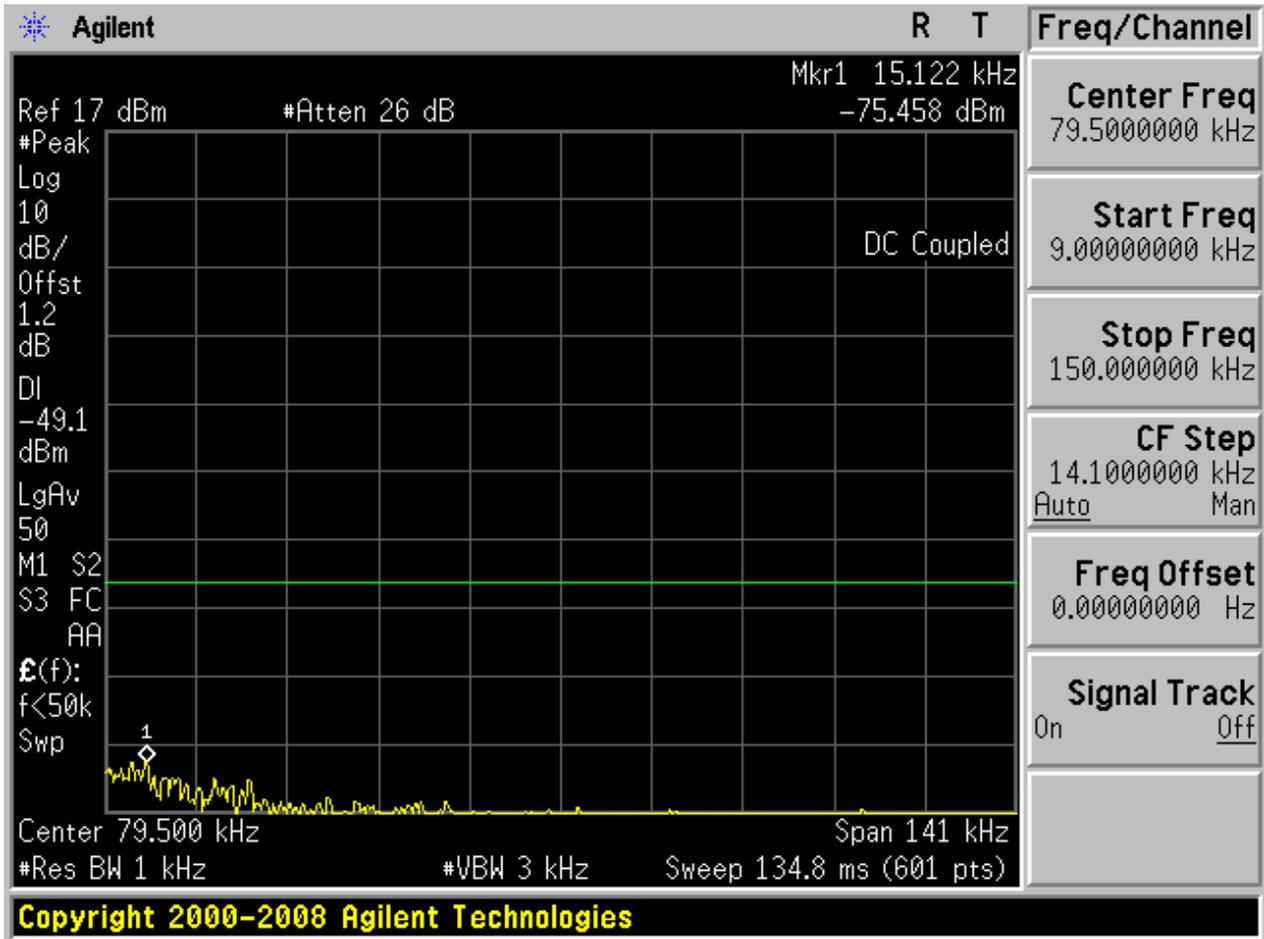
2.9 11G_M@Ant 1

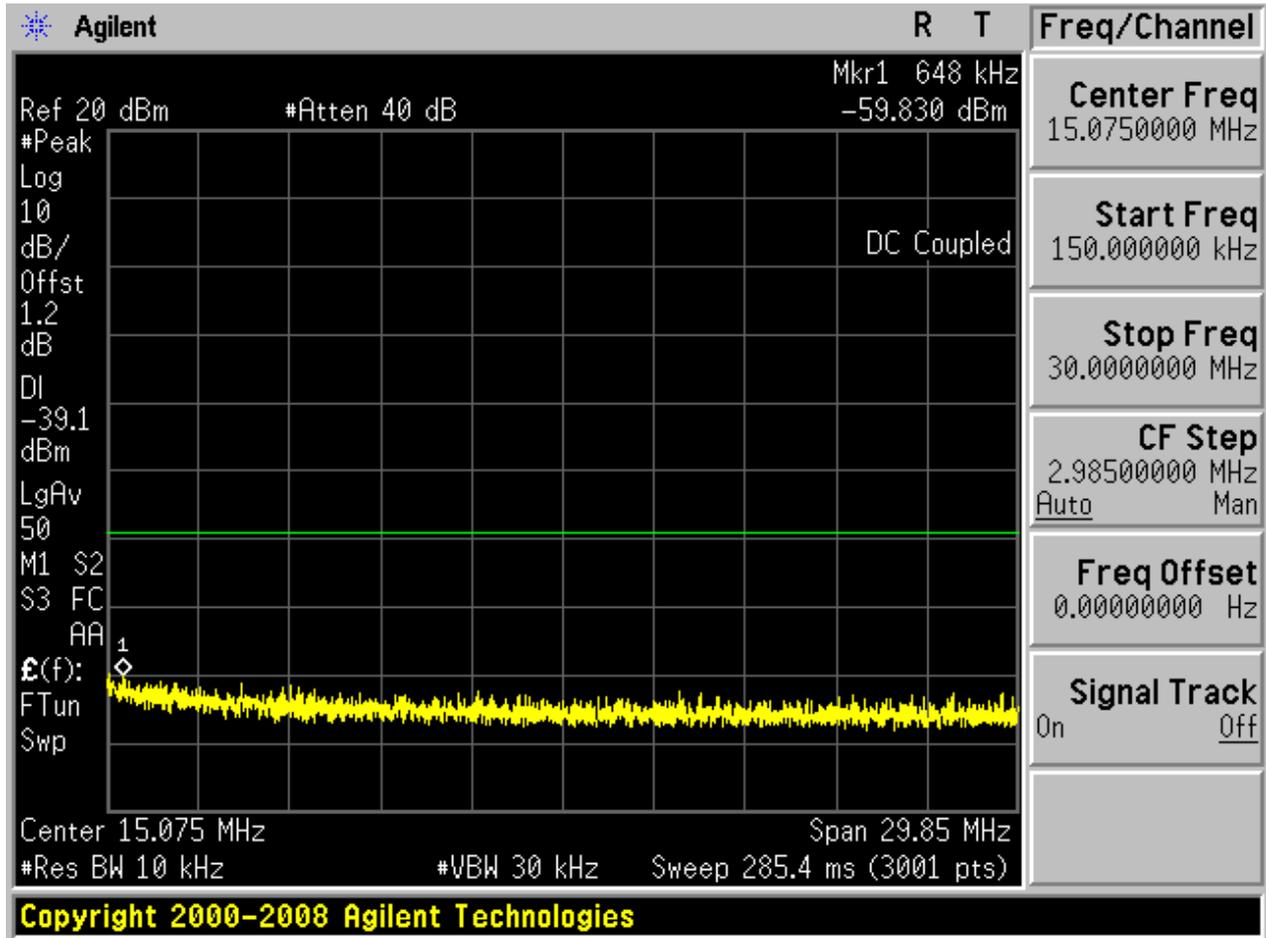
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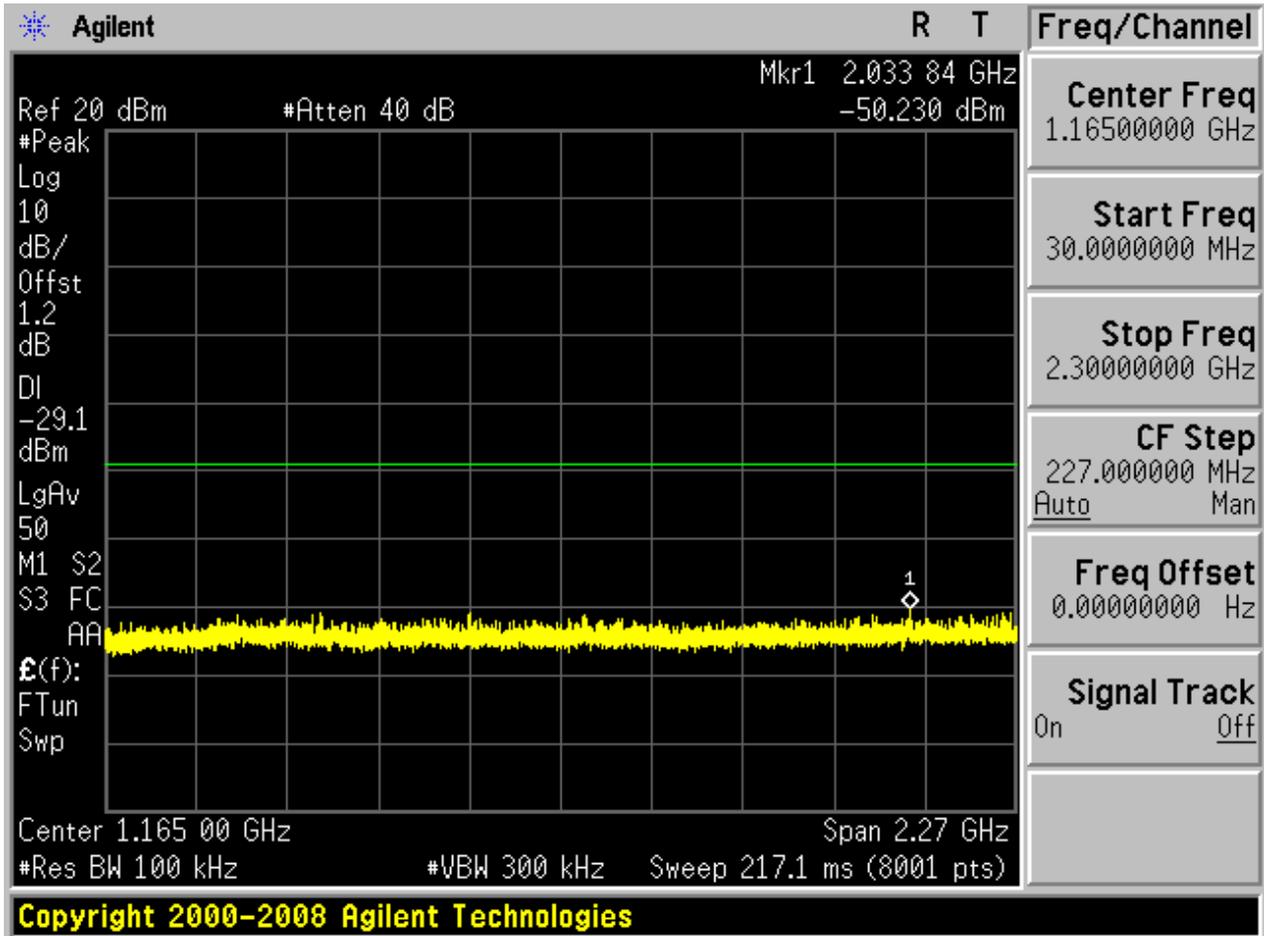


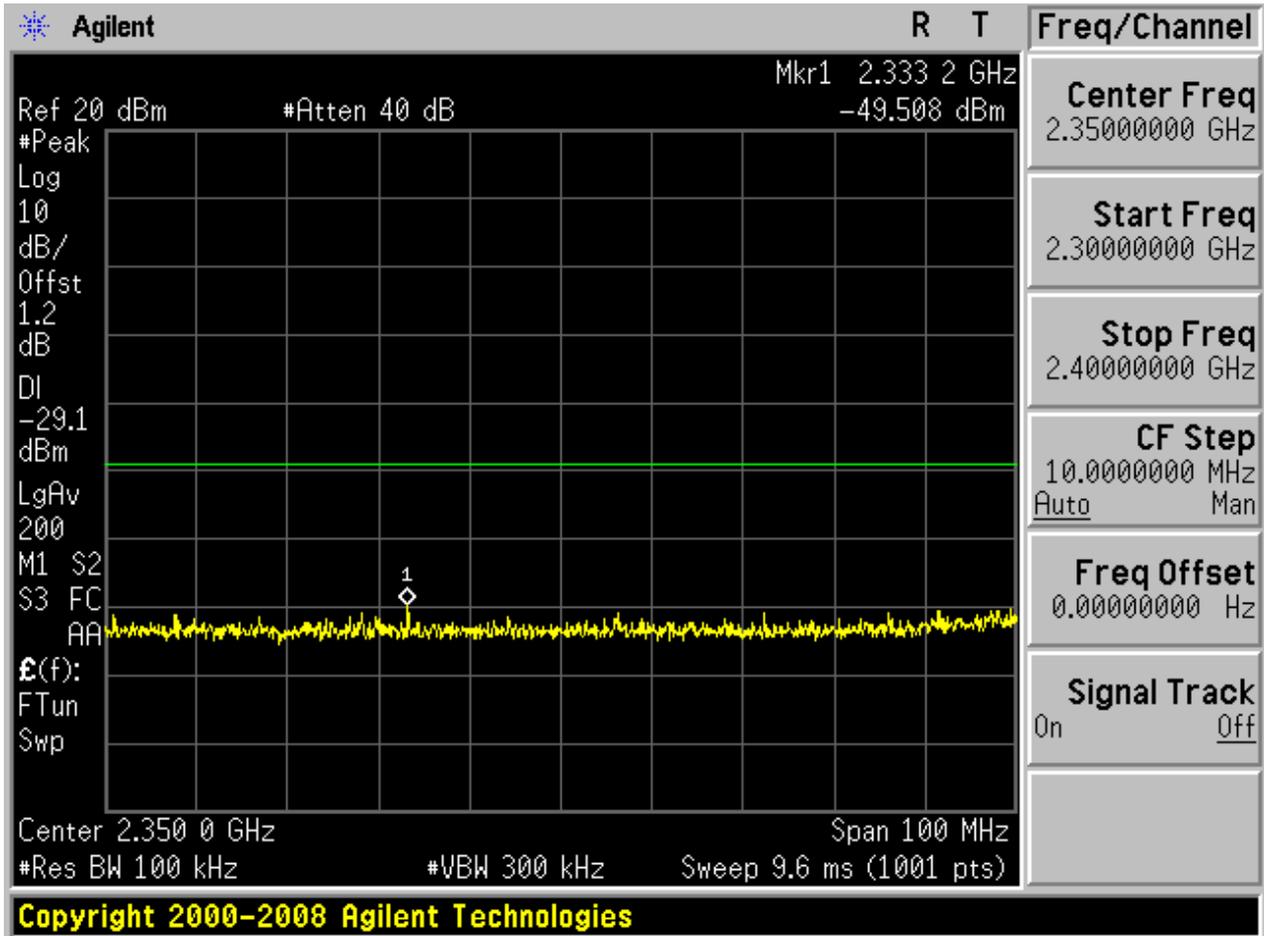


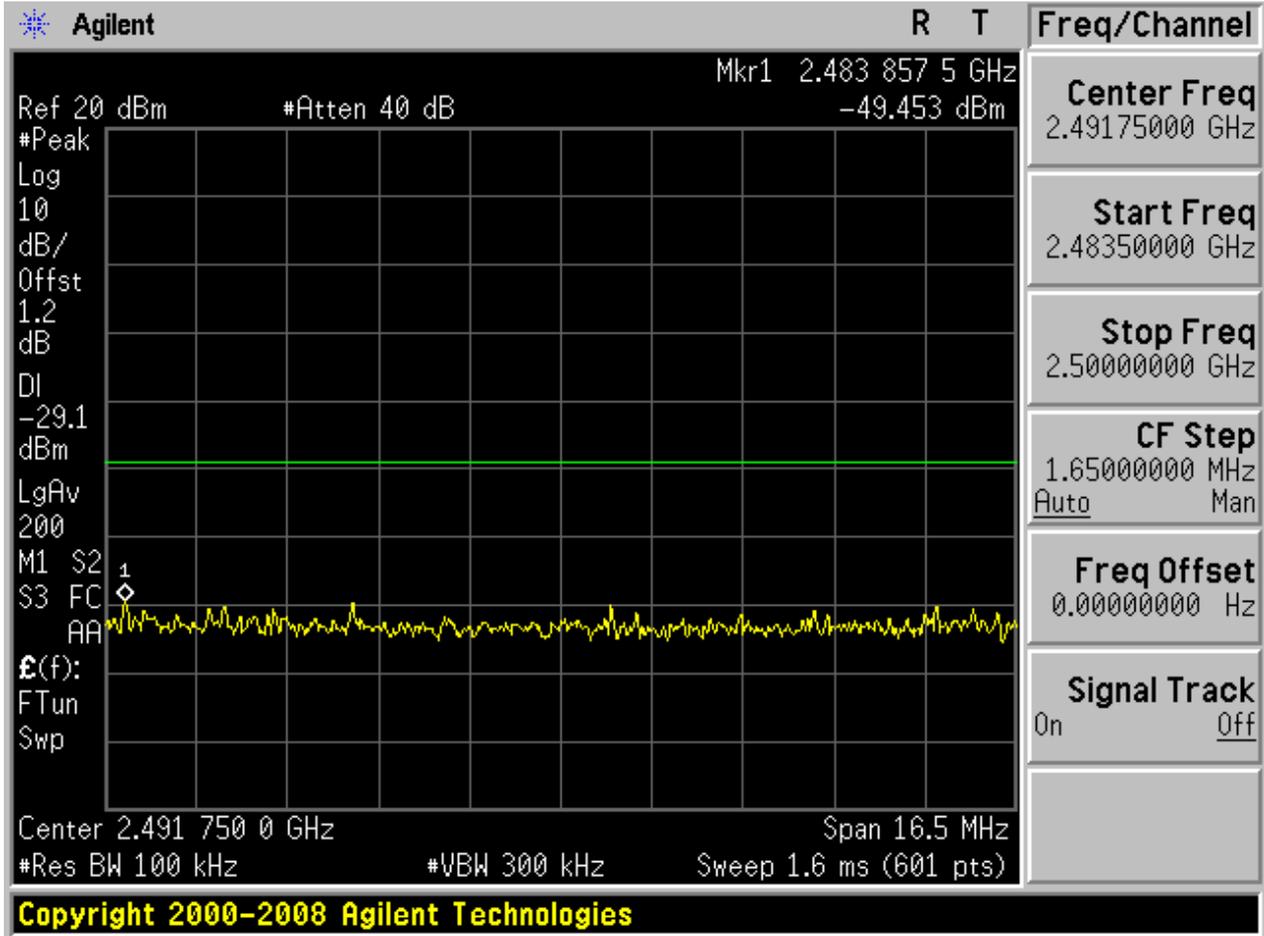
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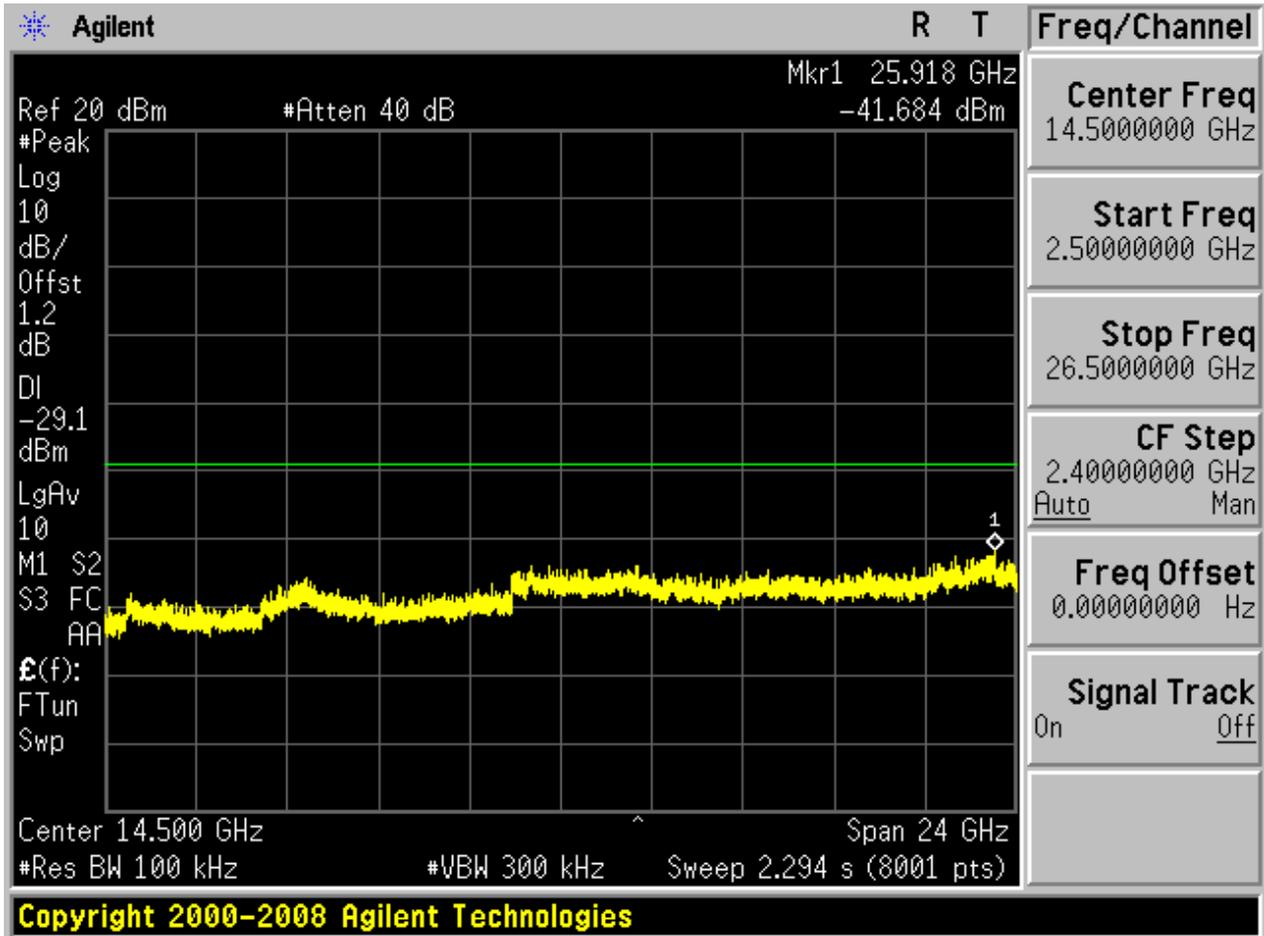








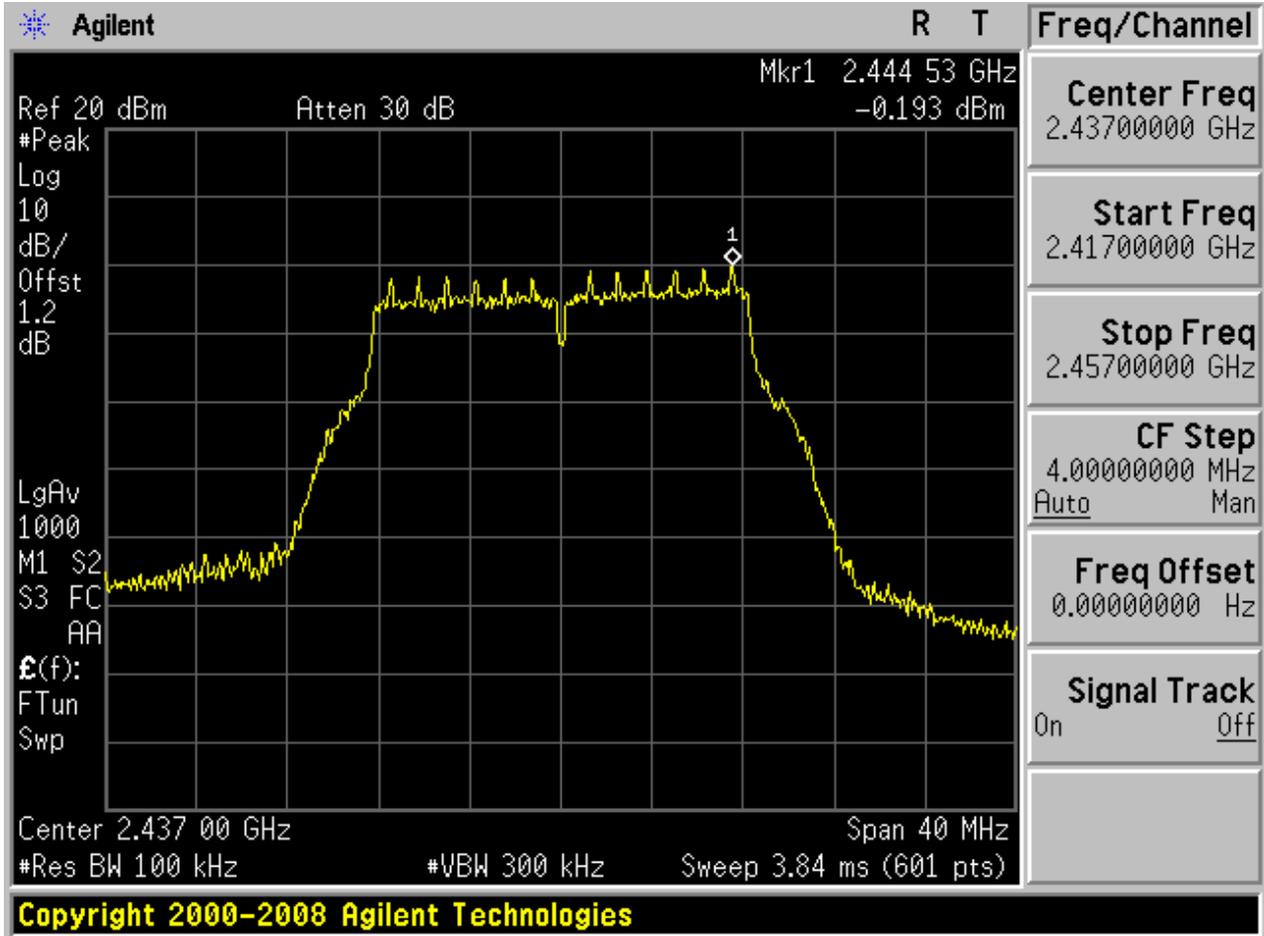






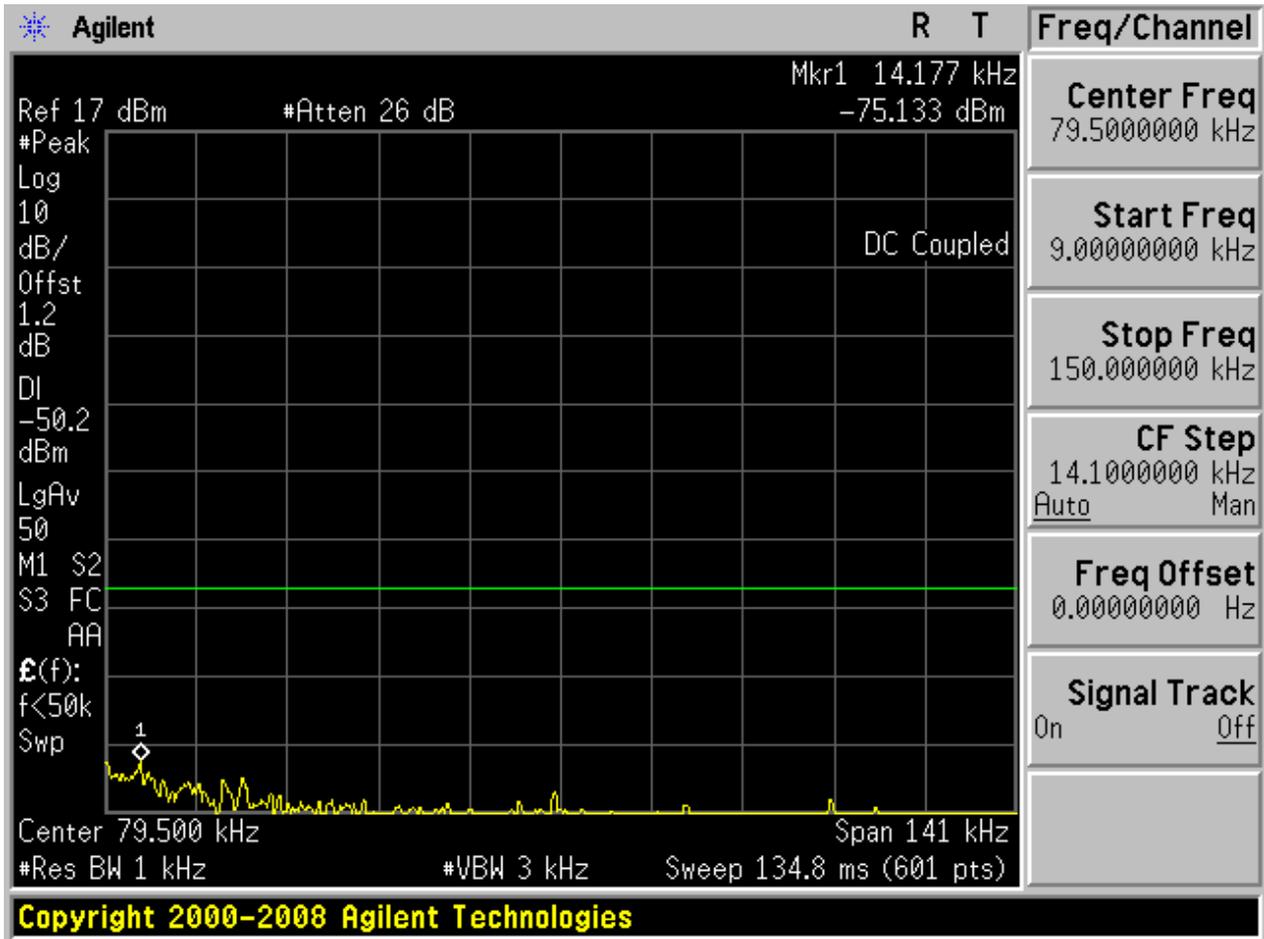
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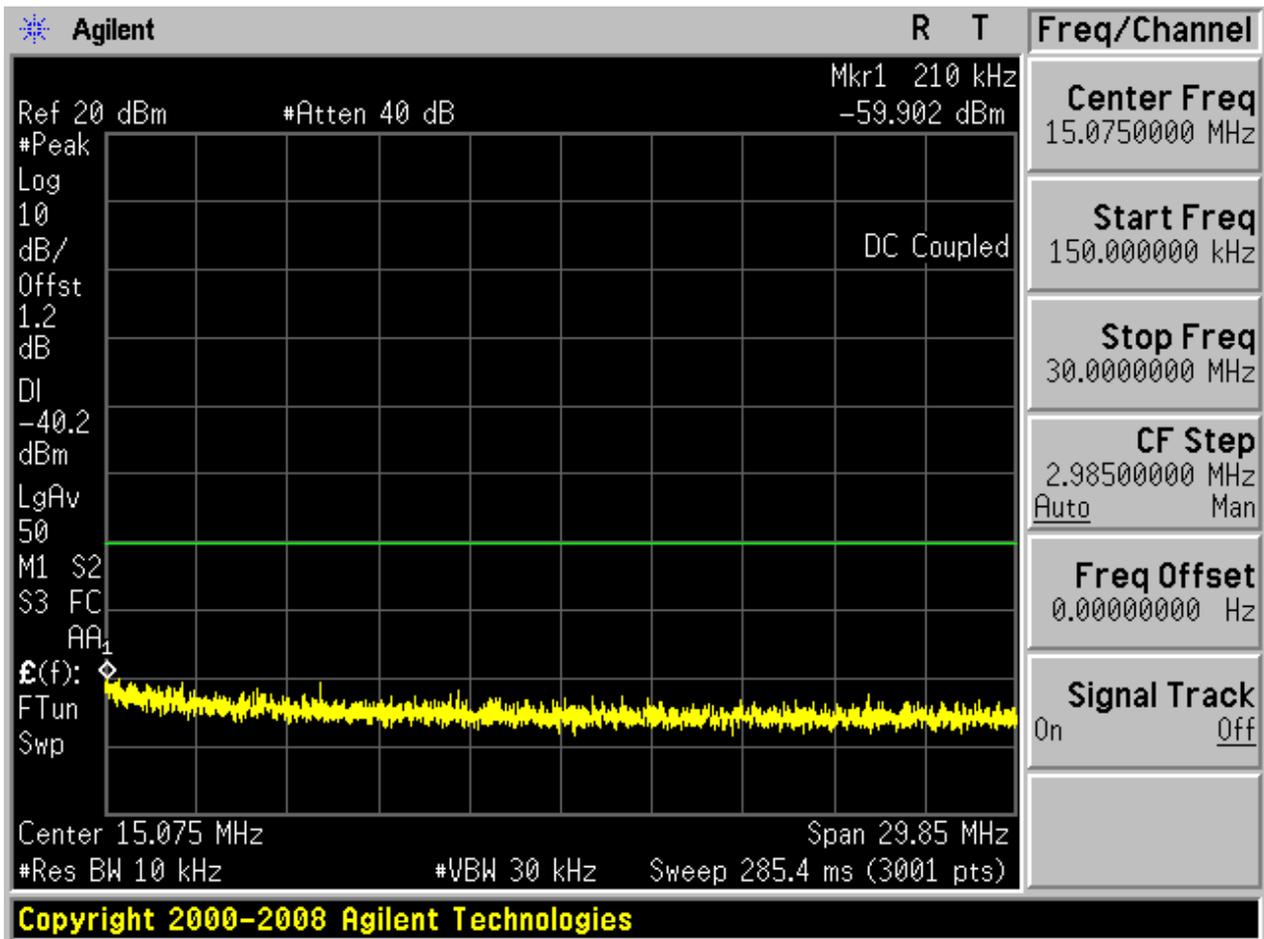
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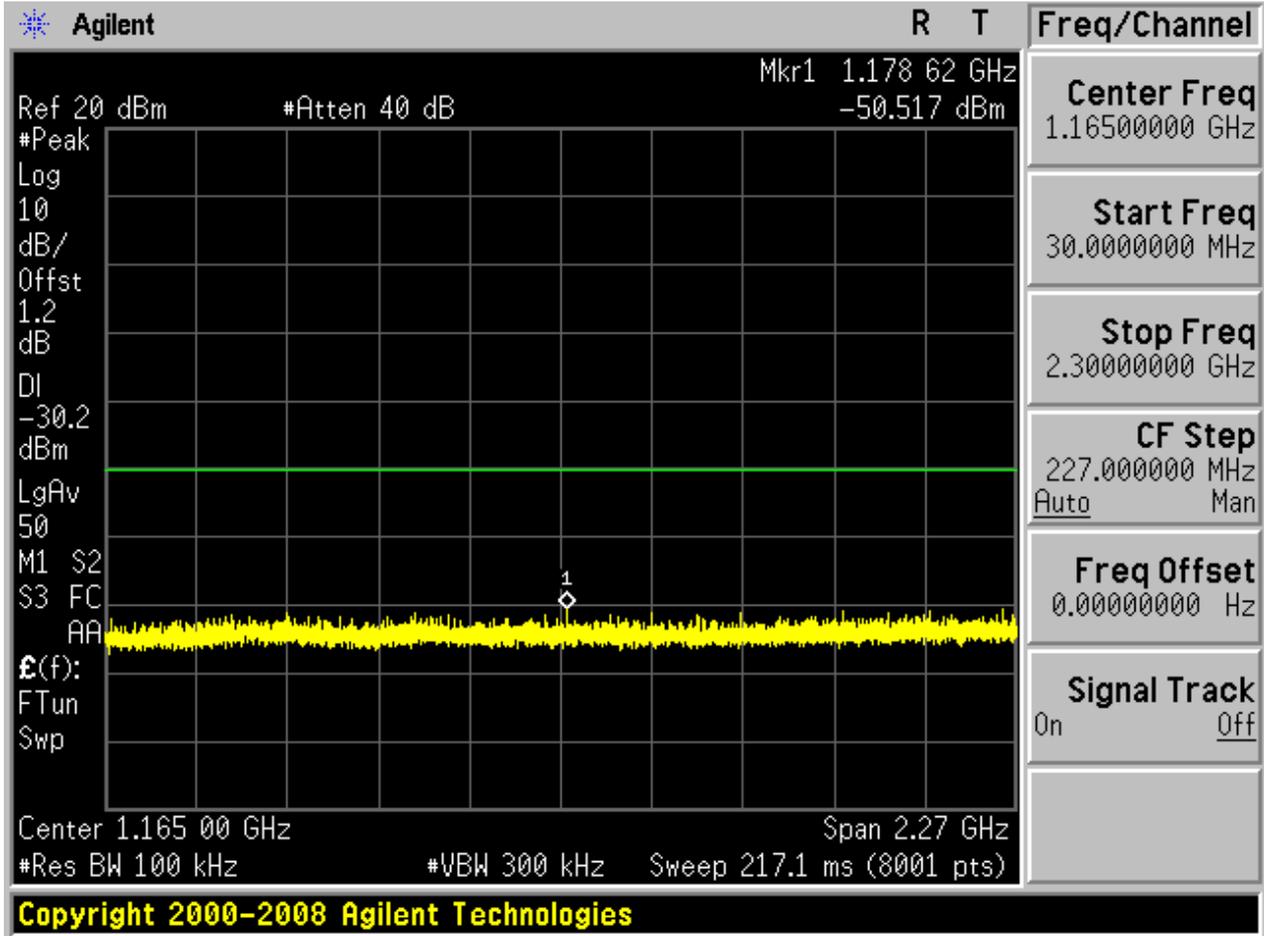


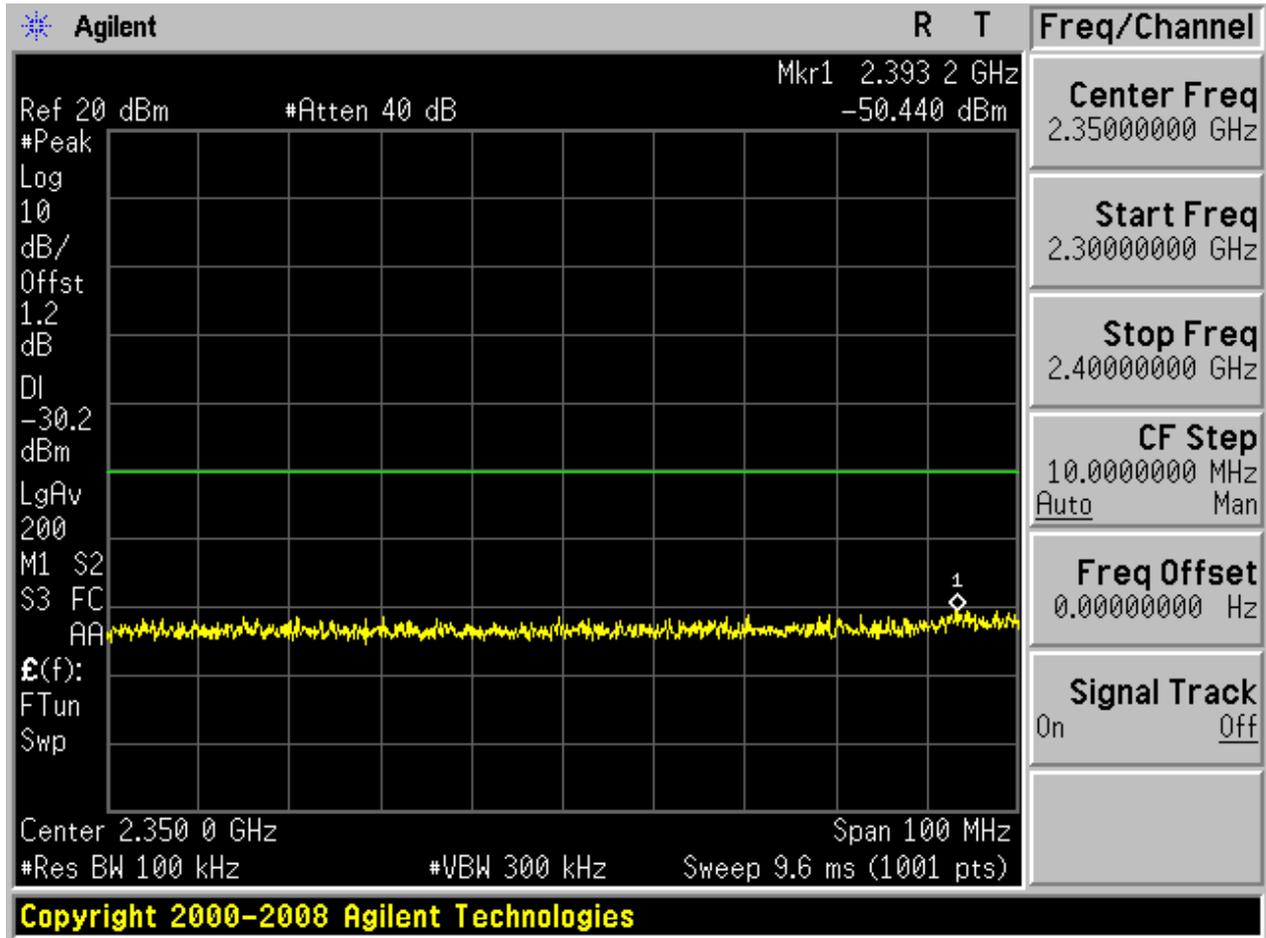


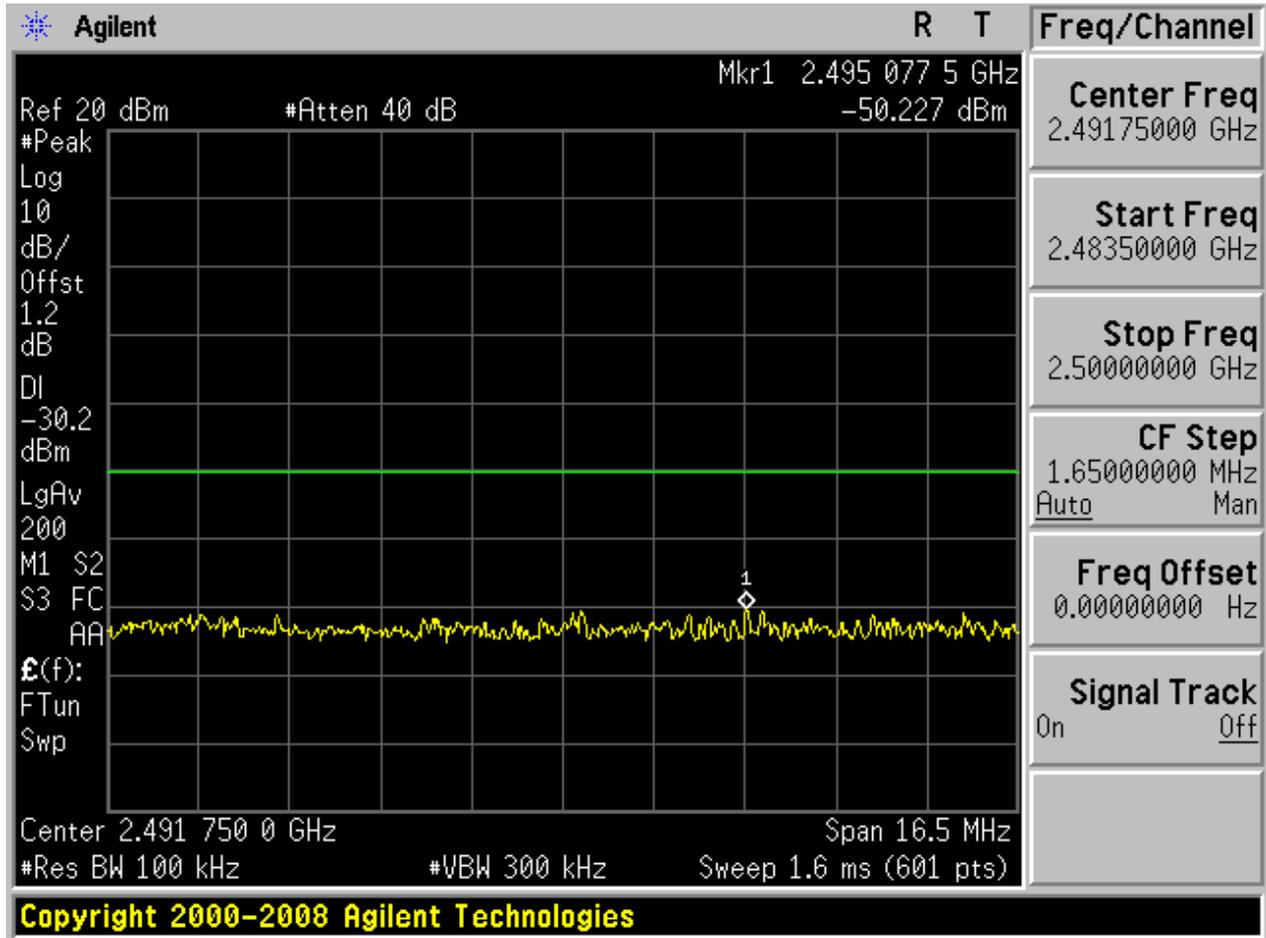
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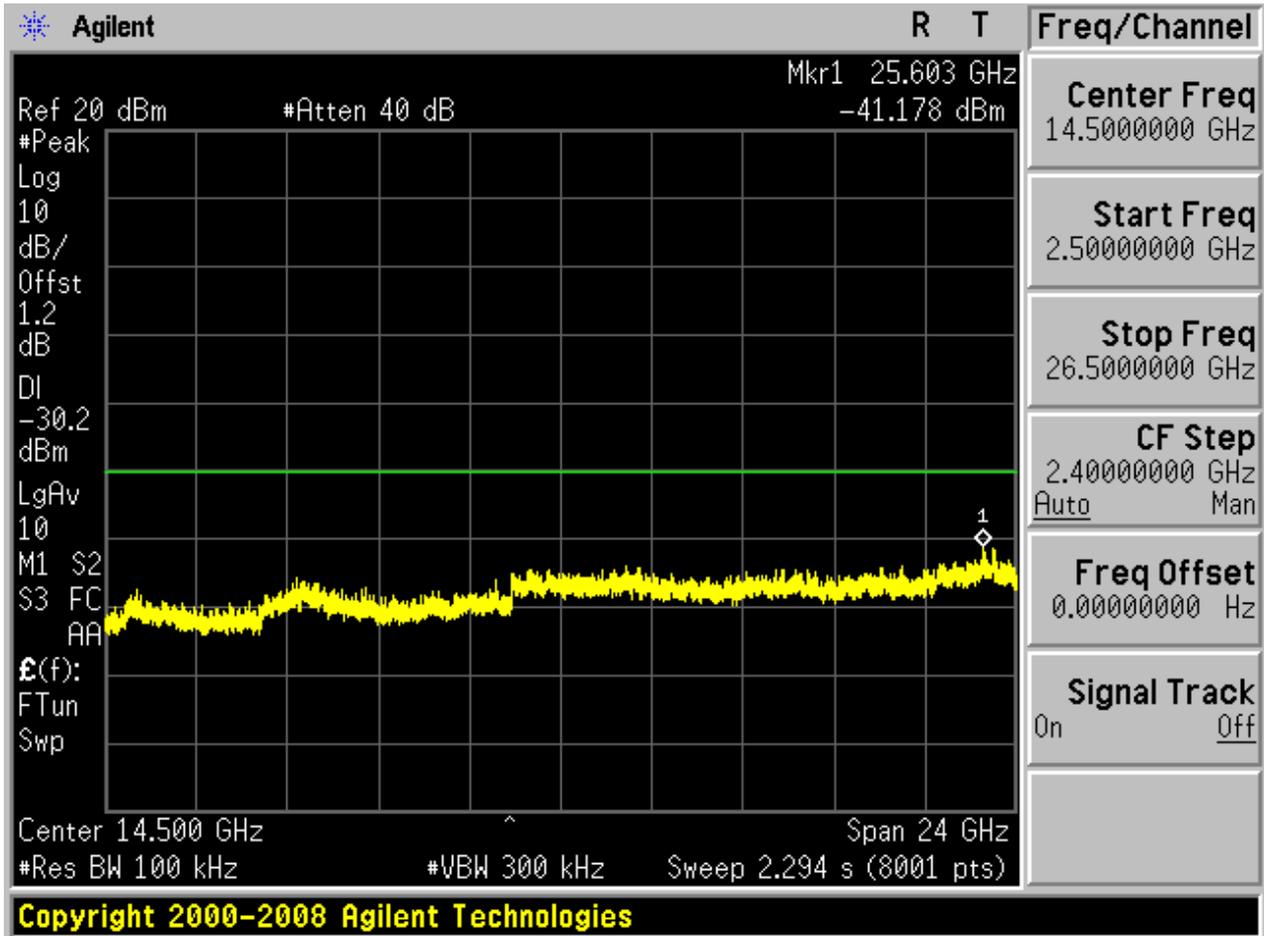








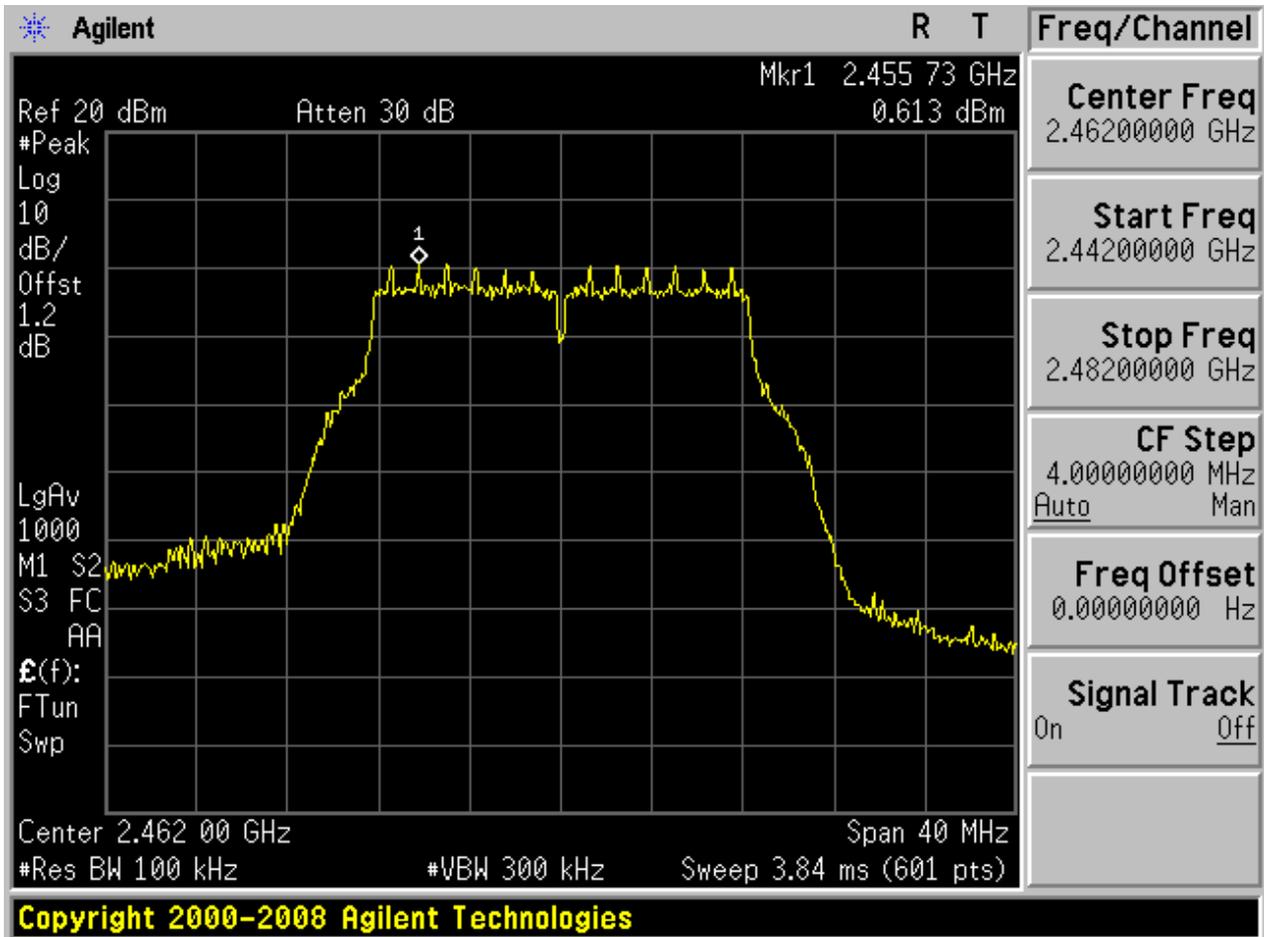






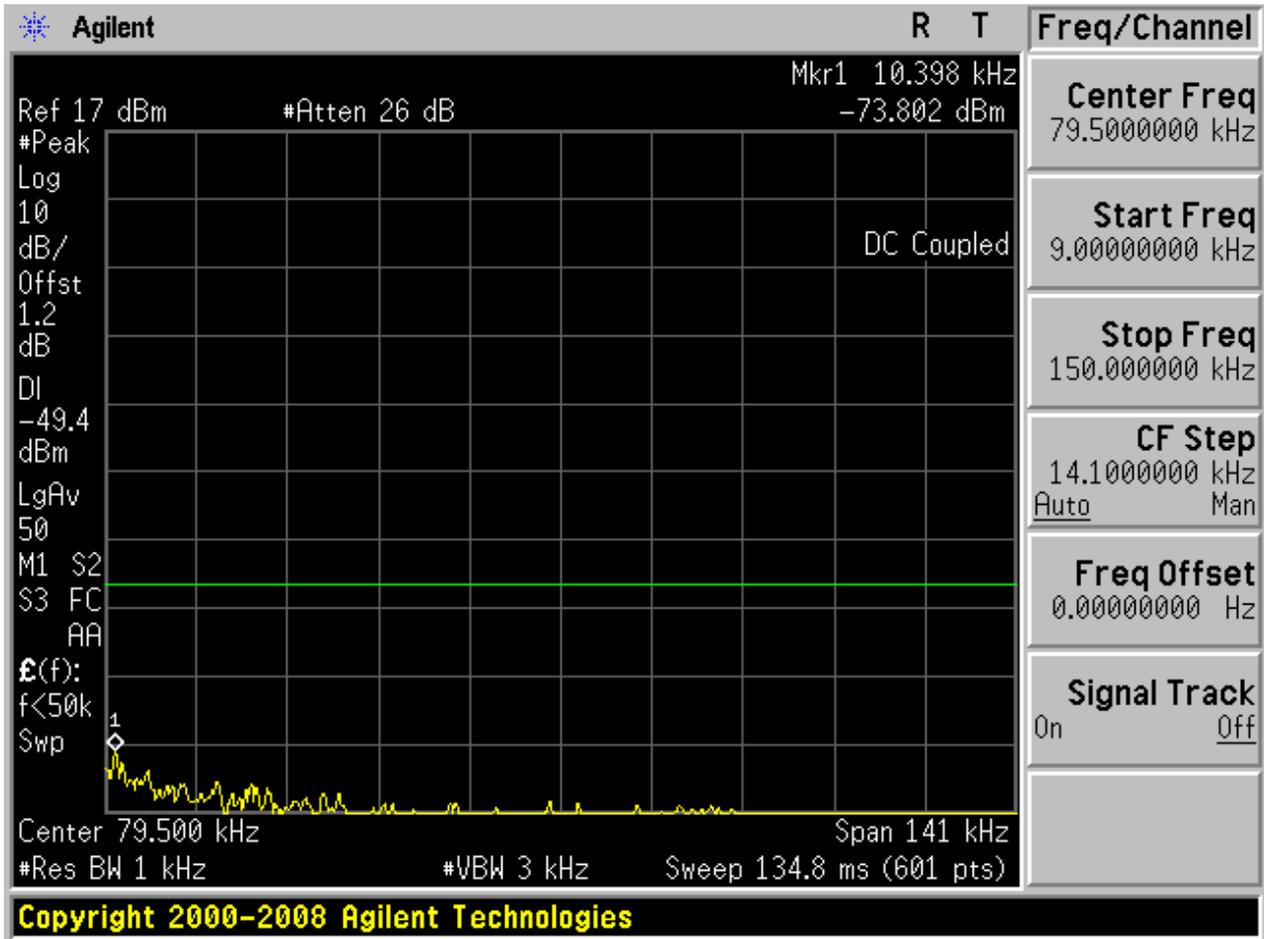
2.11 11G_H@Ant 1

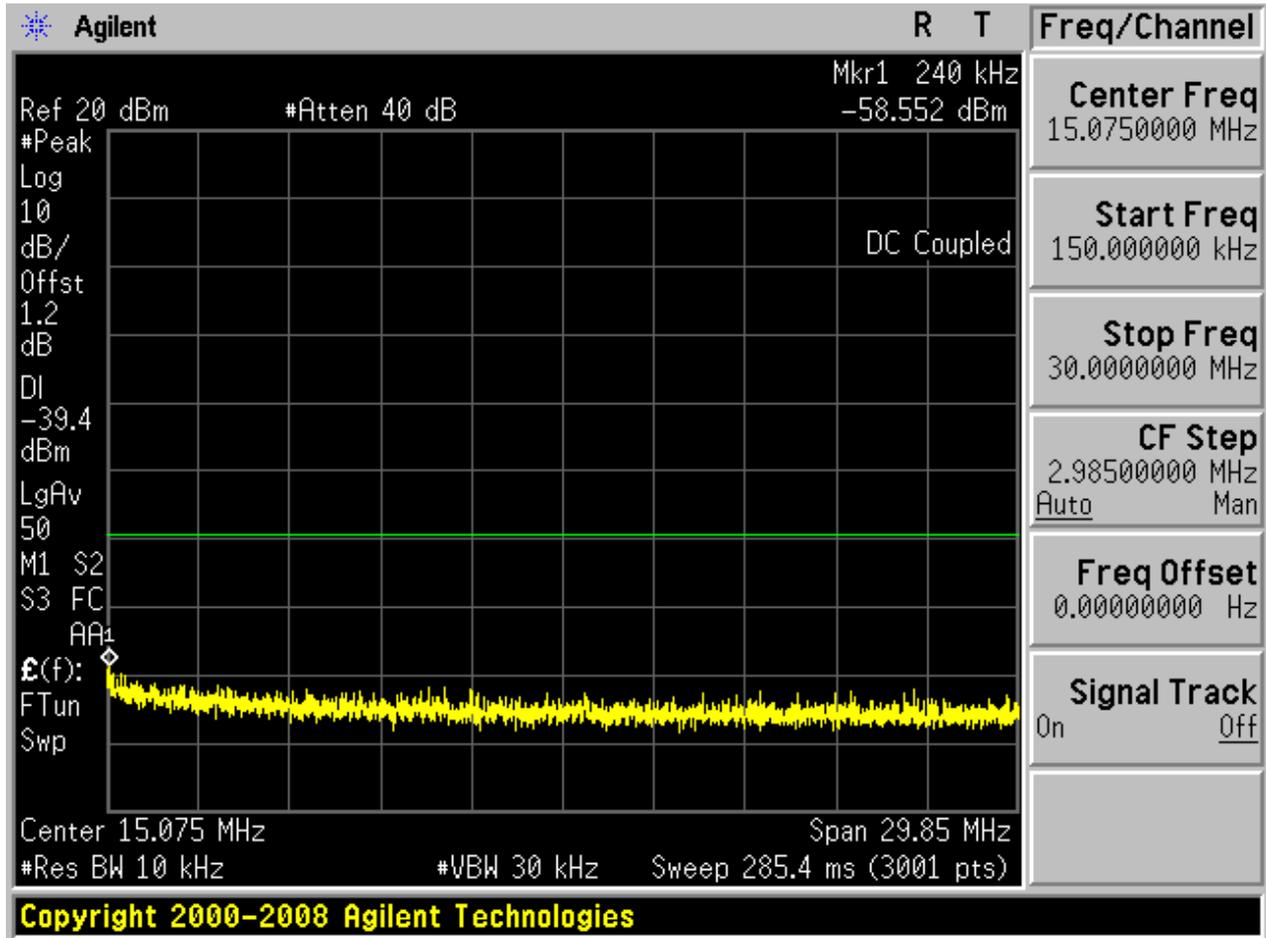
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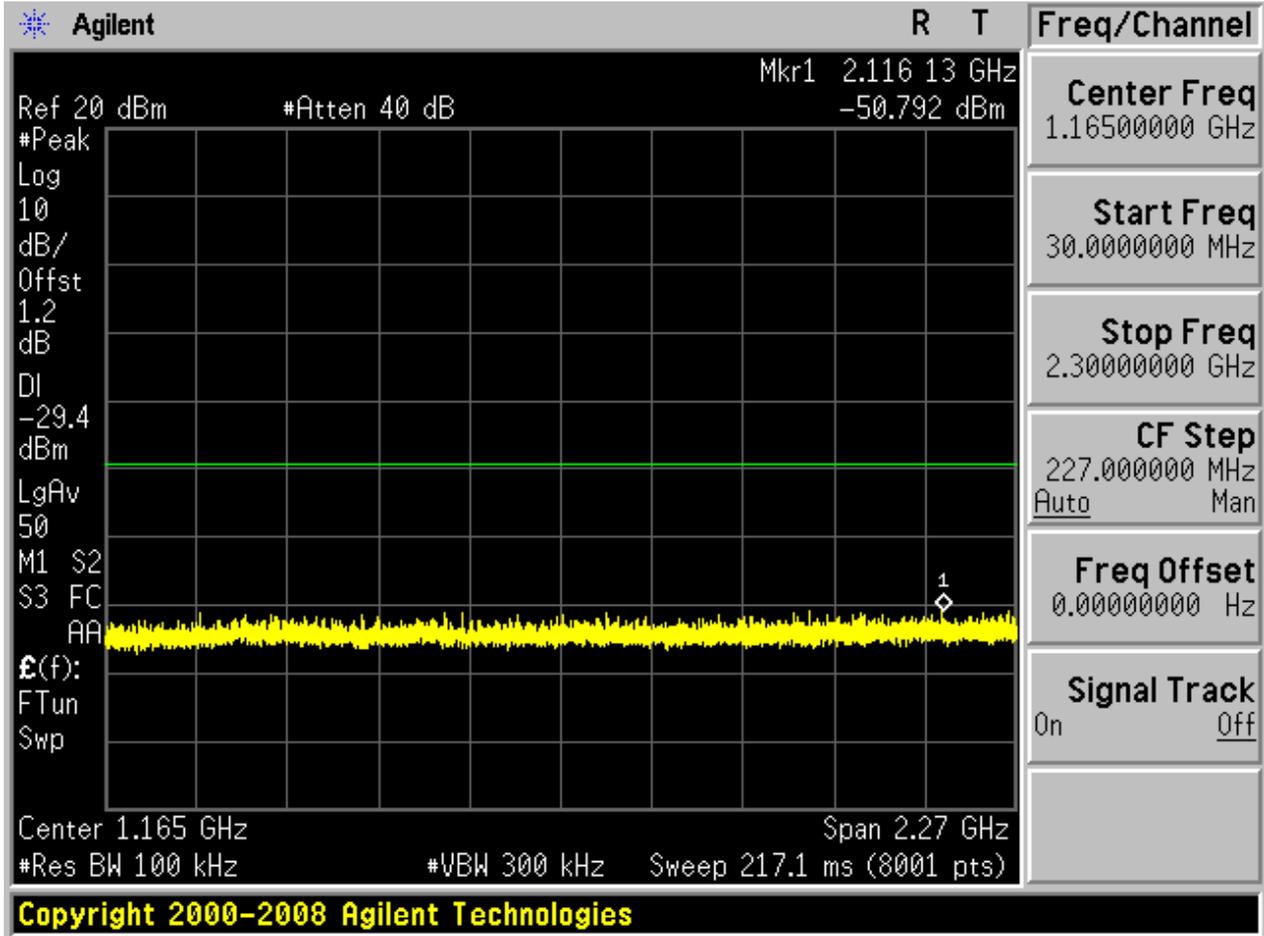


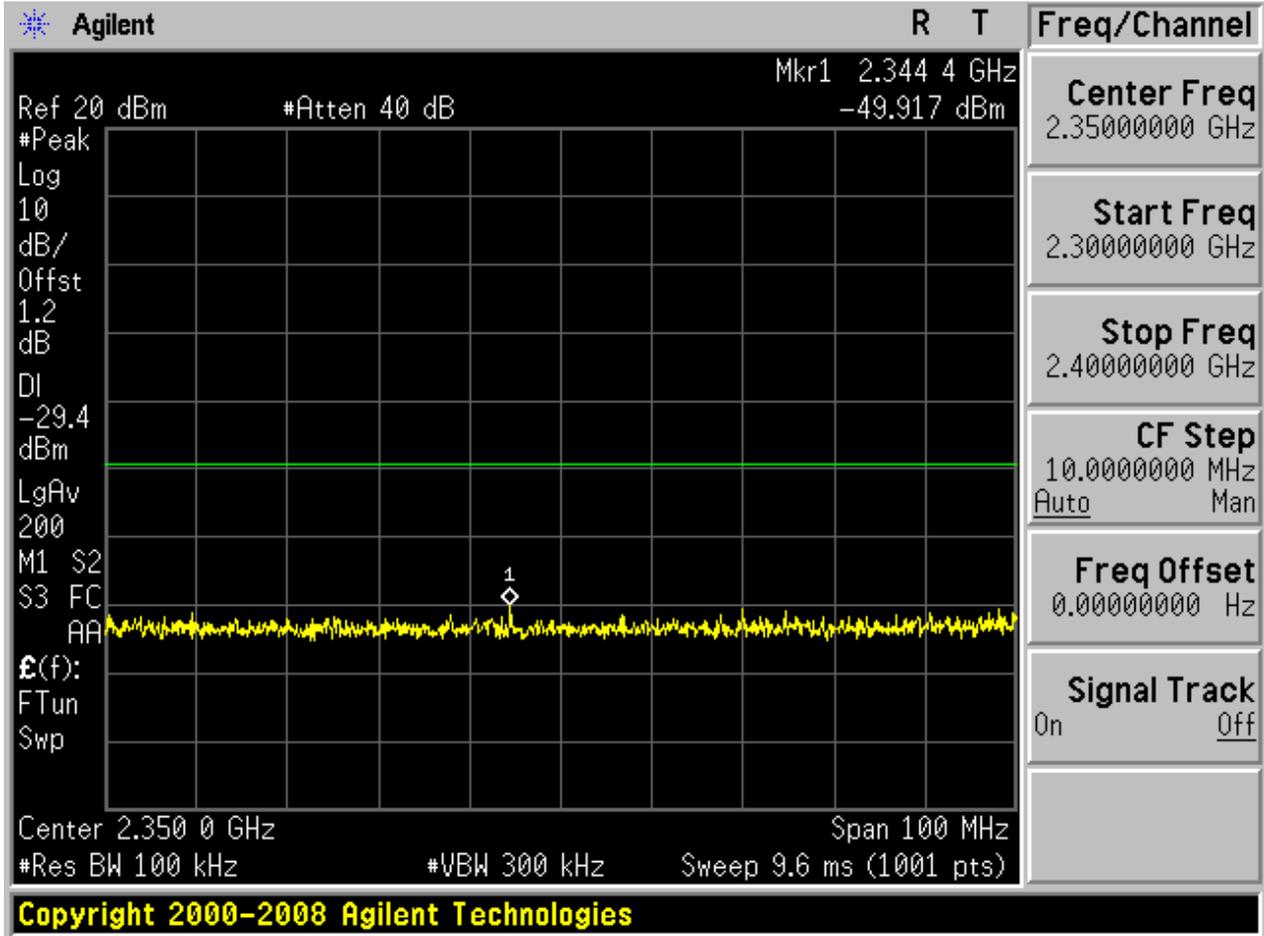


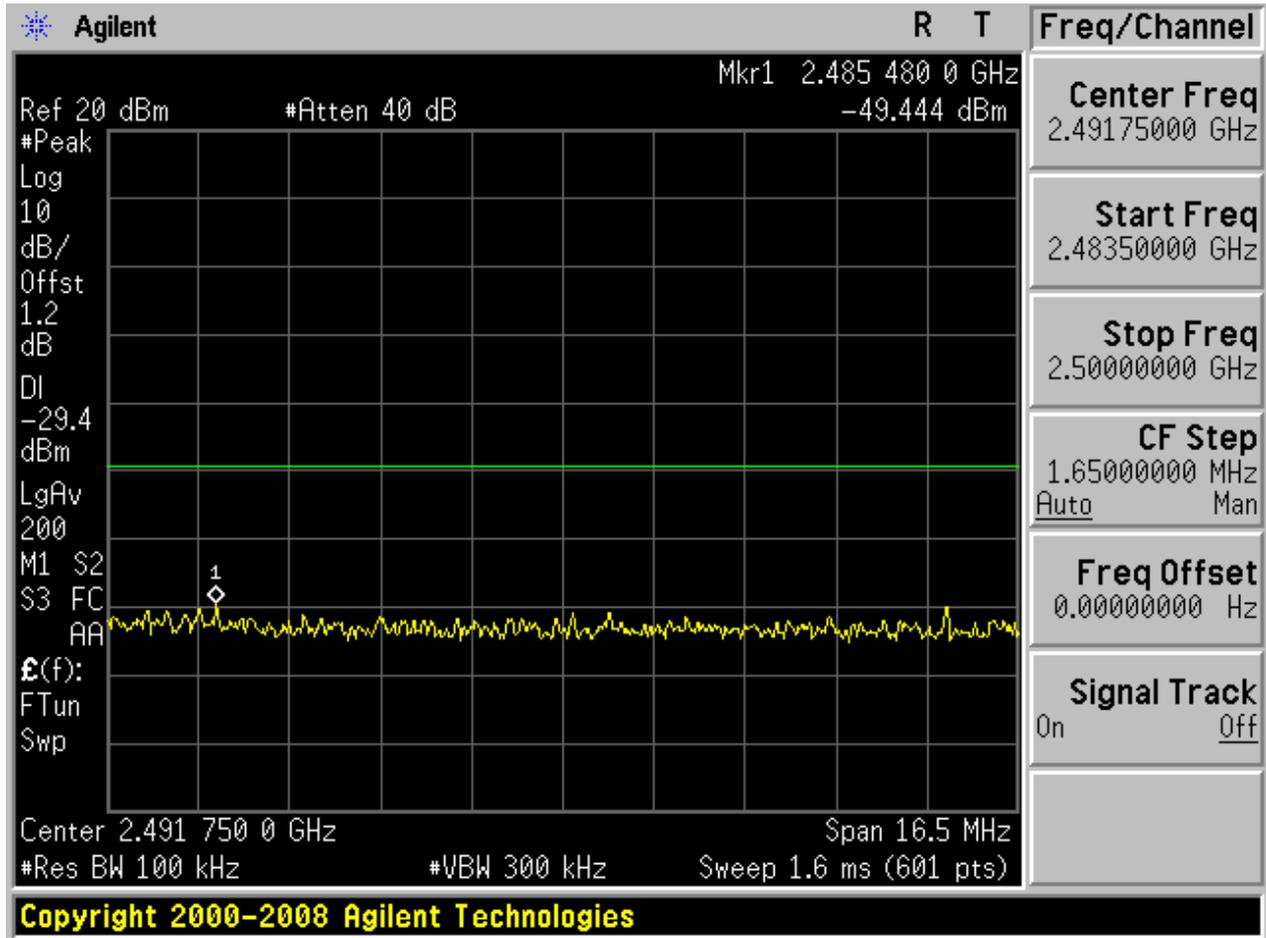
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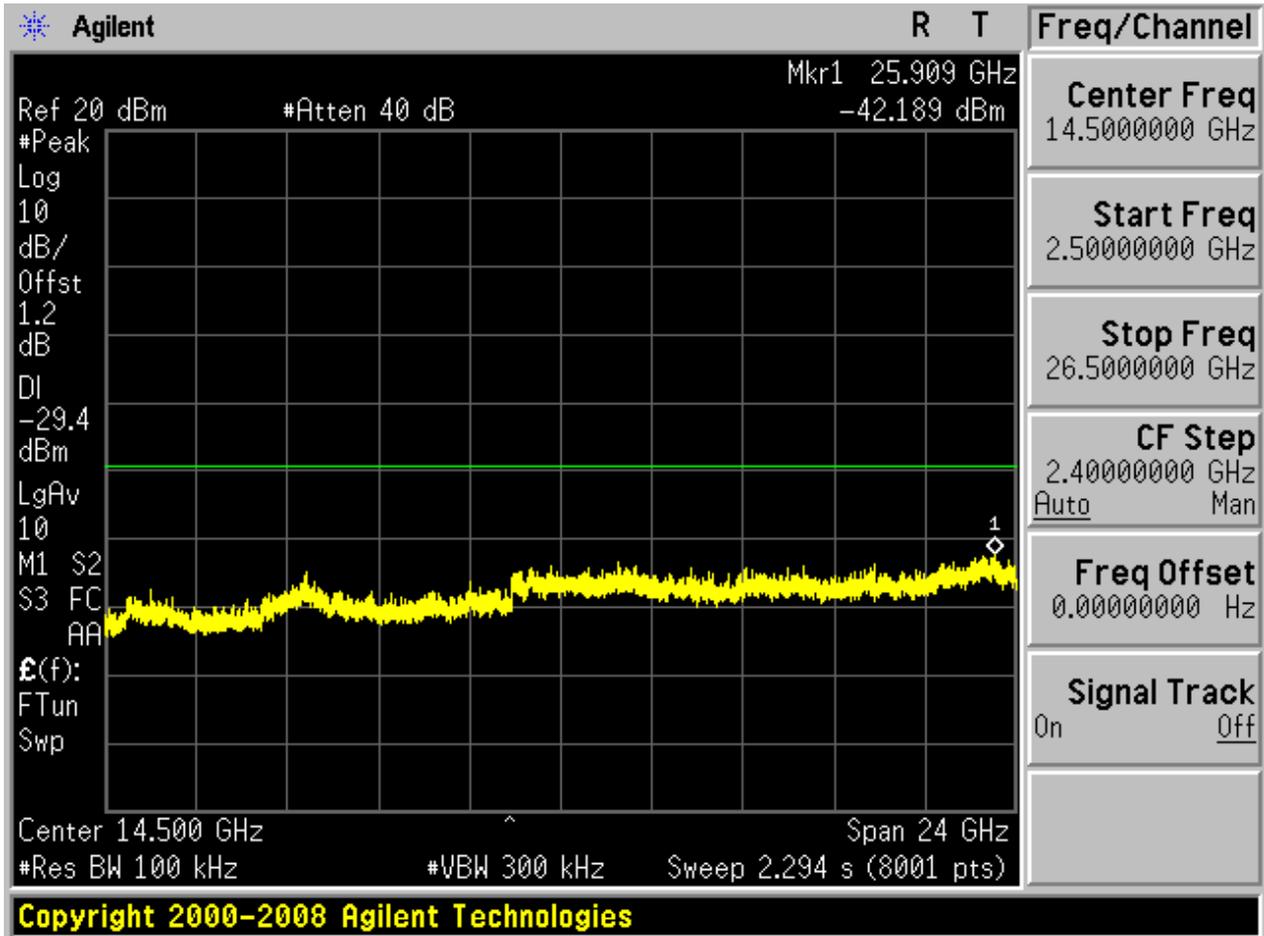








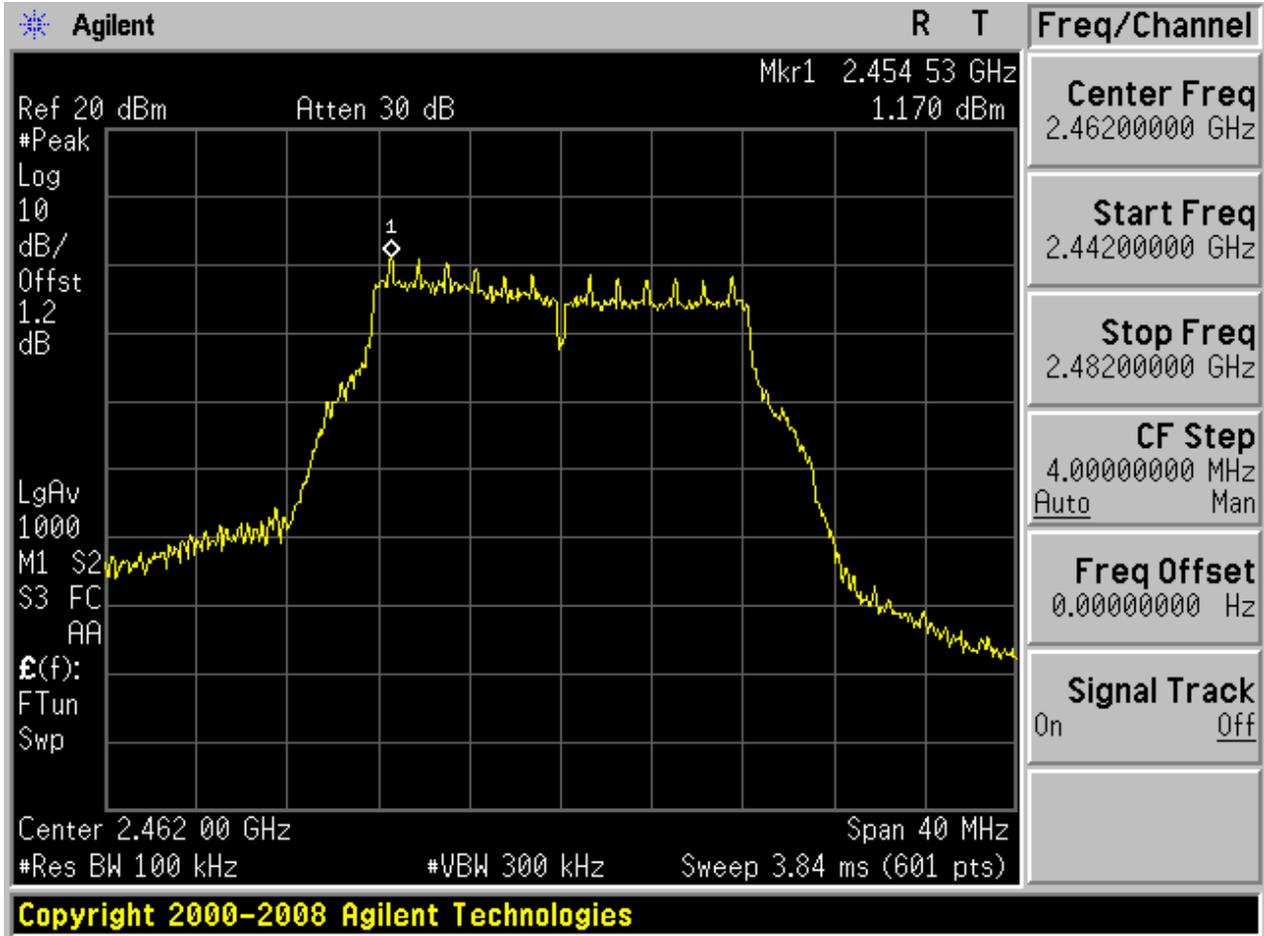






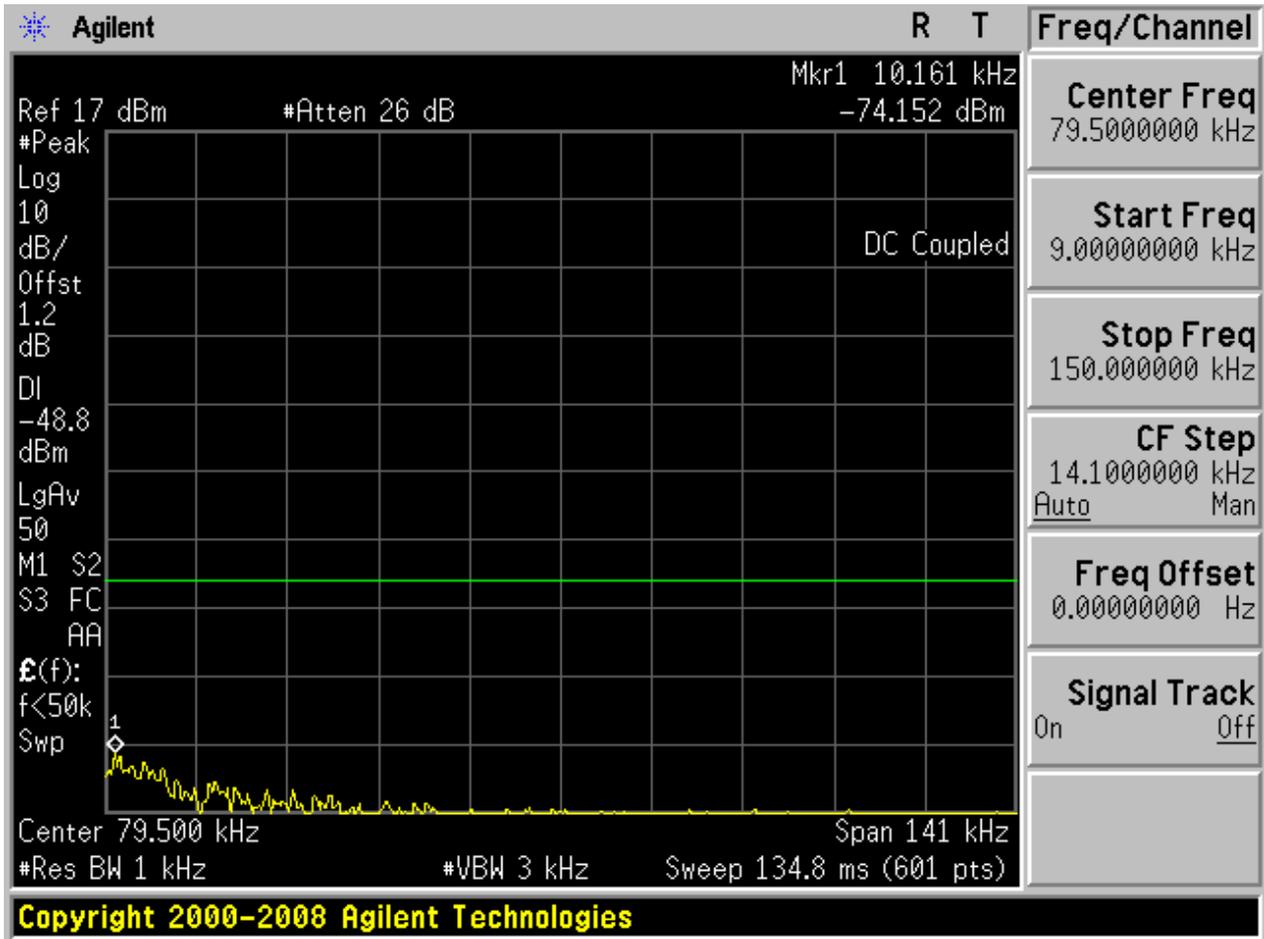
2.12 11G_H@Ant 2

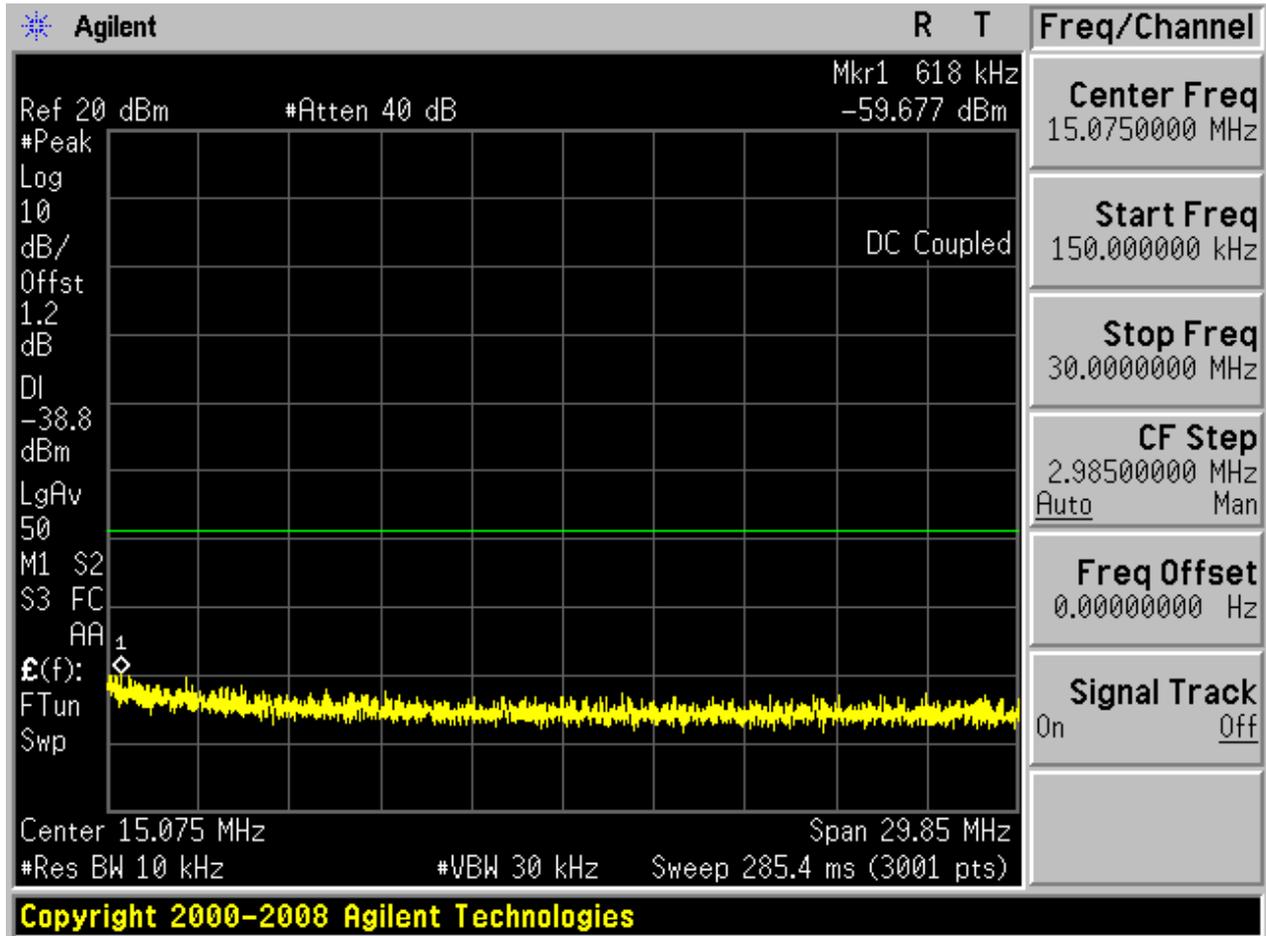
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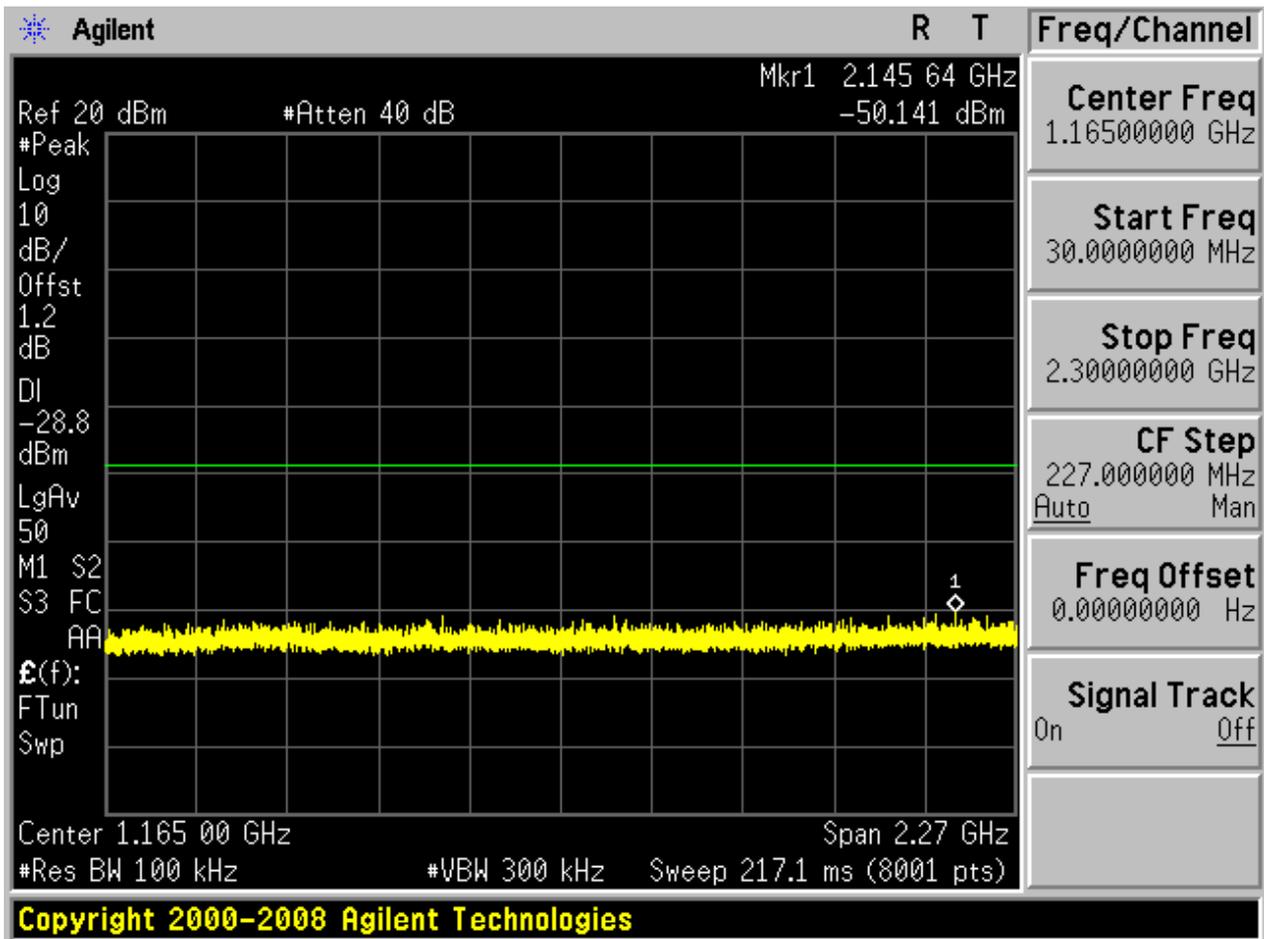


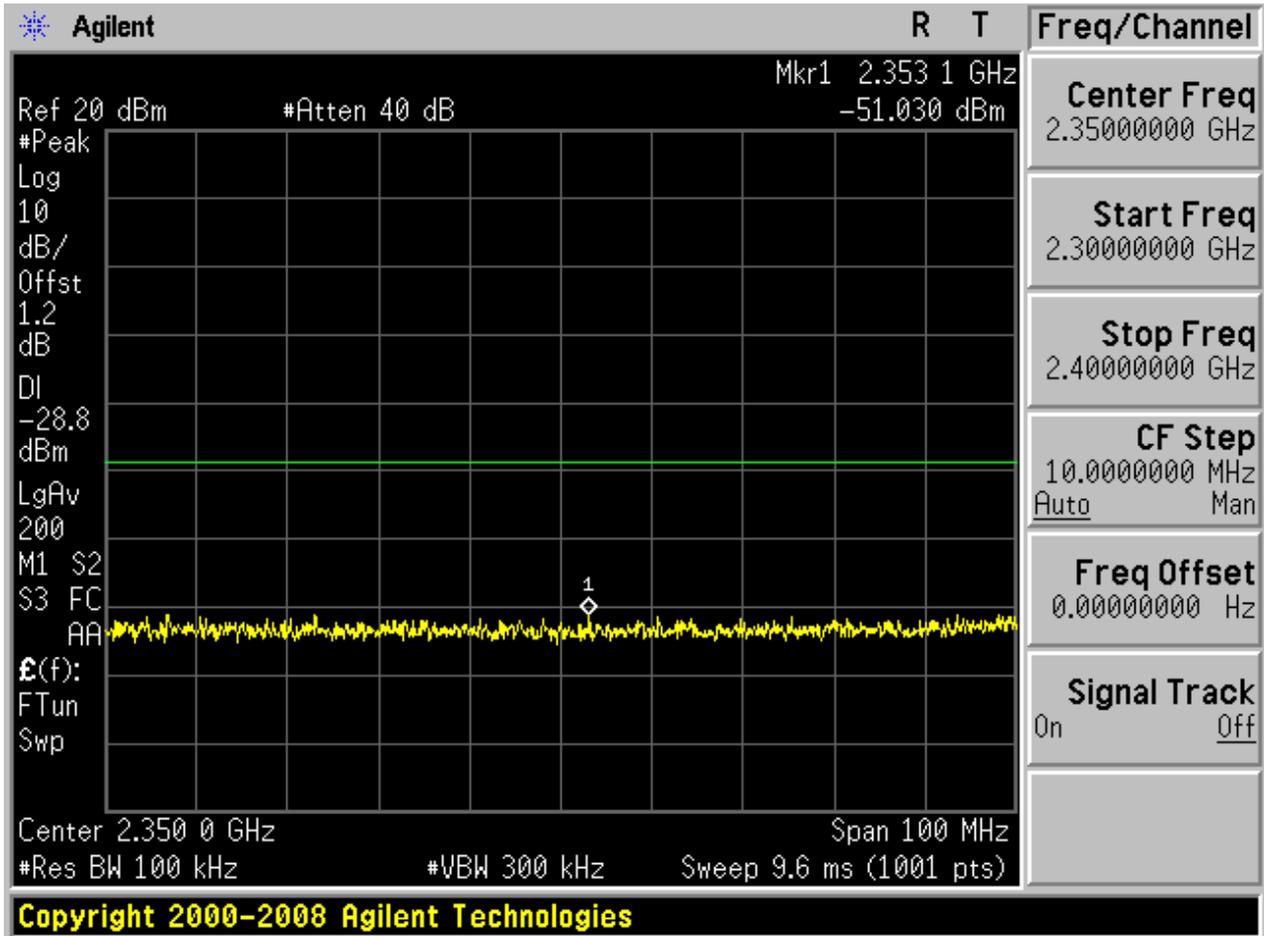


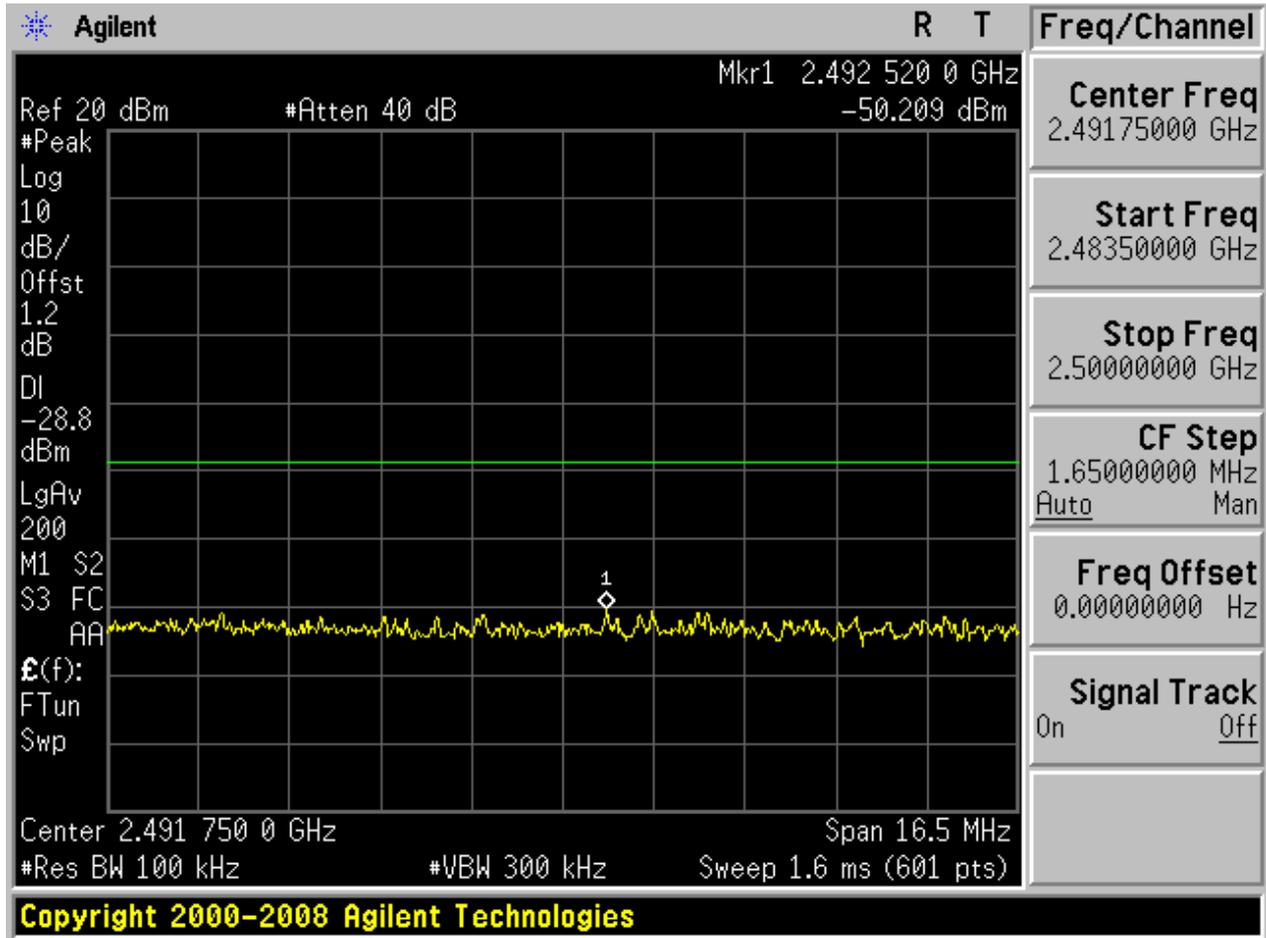
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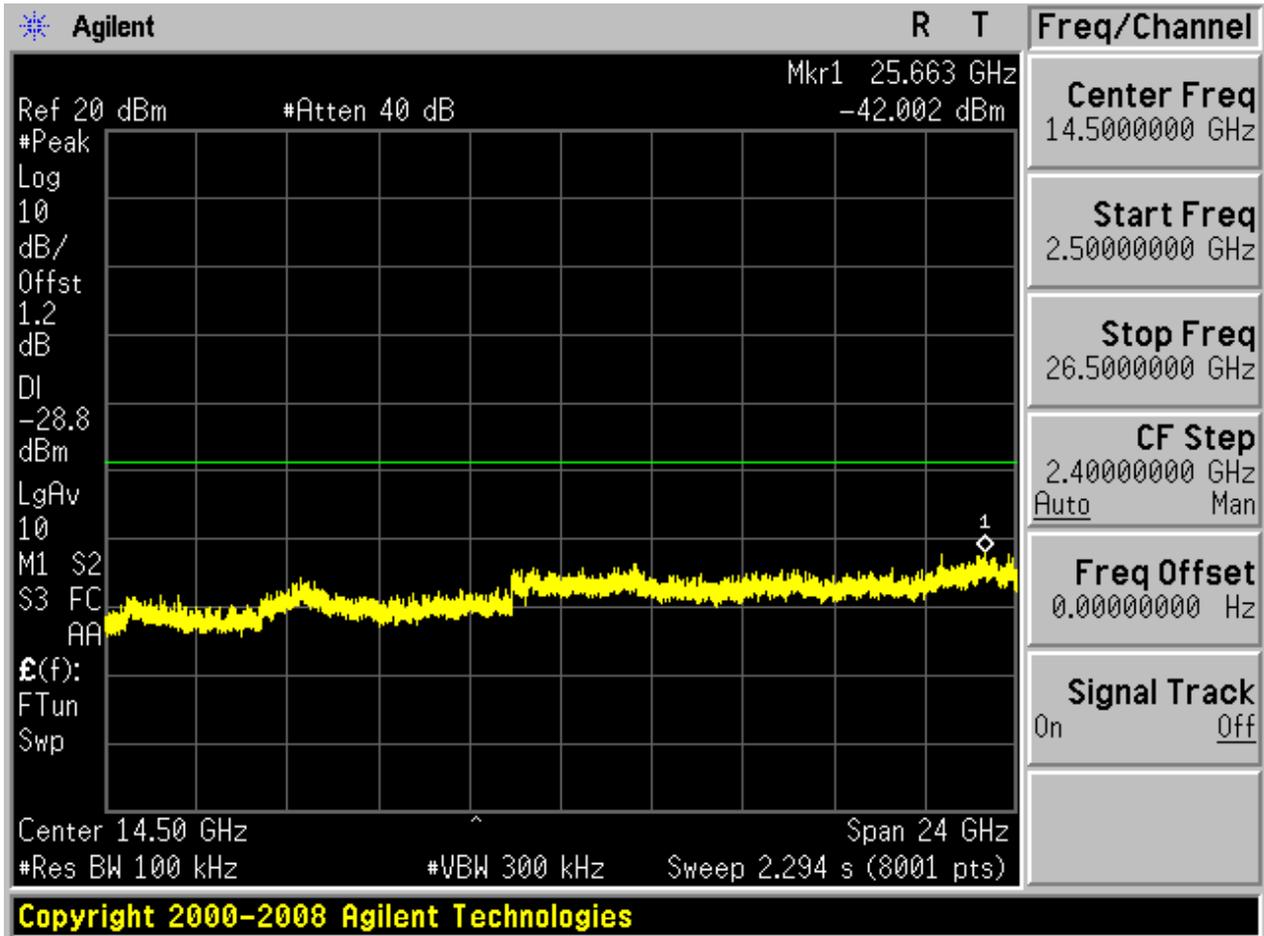








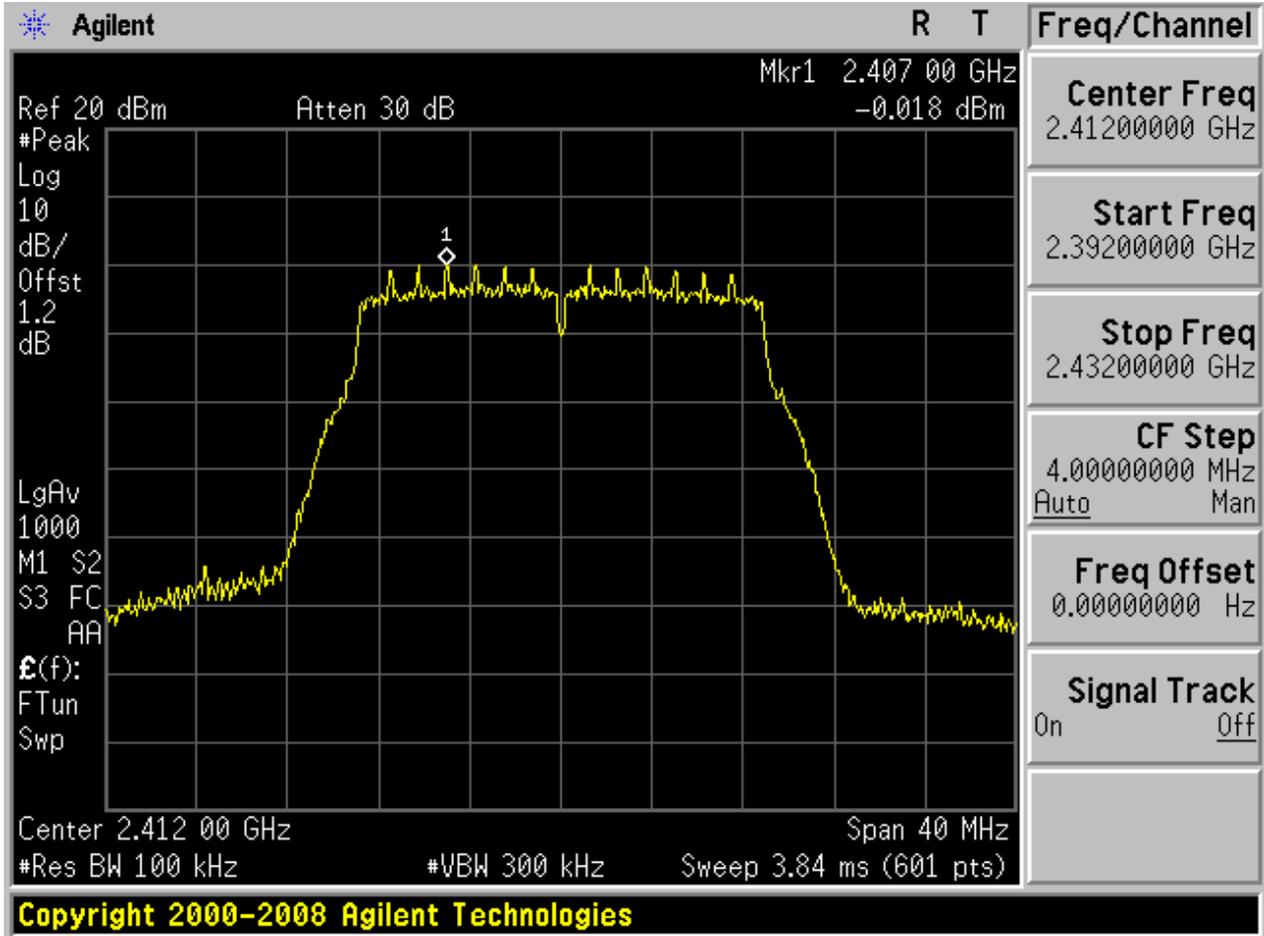






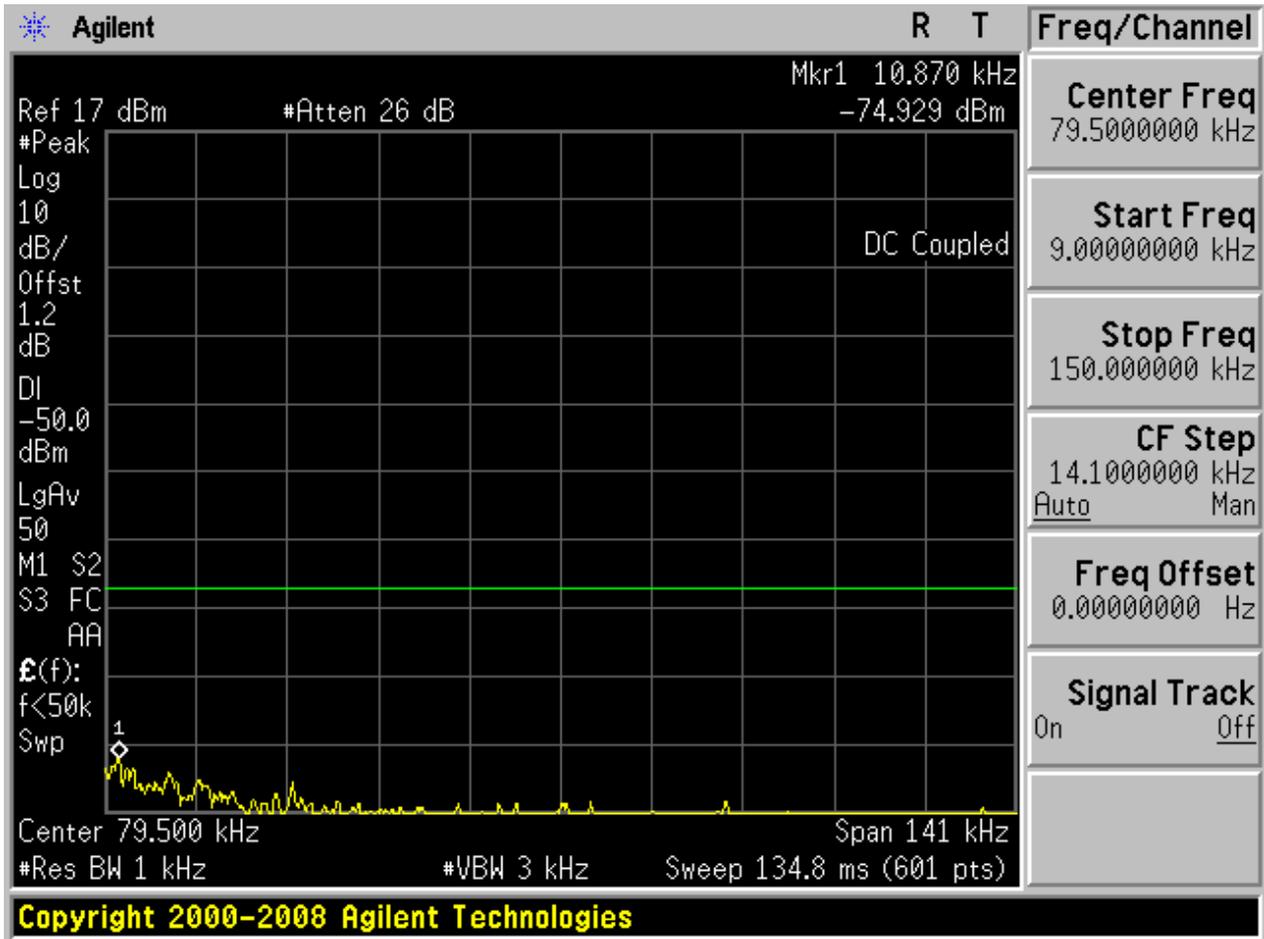
2.13 11N20_L@Ant 1

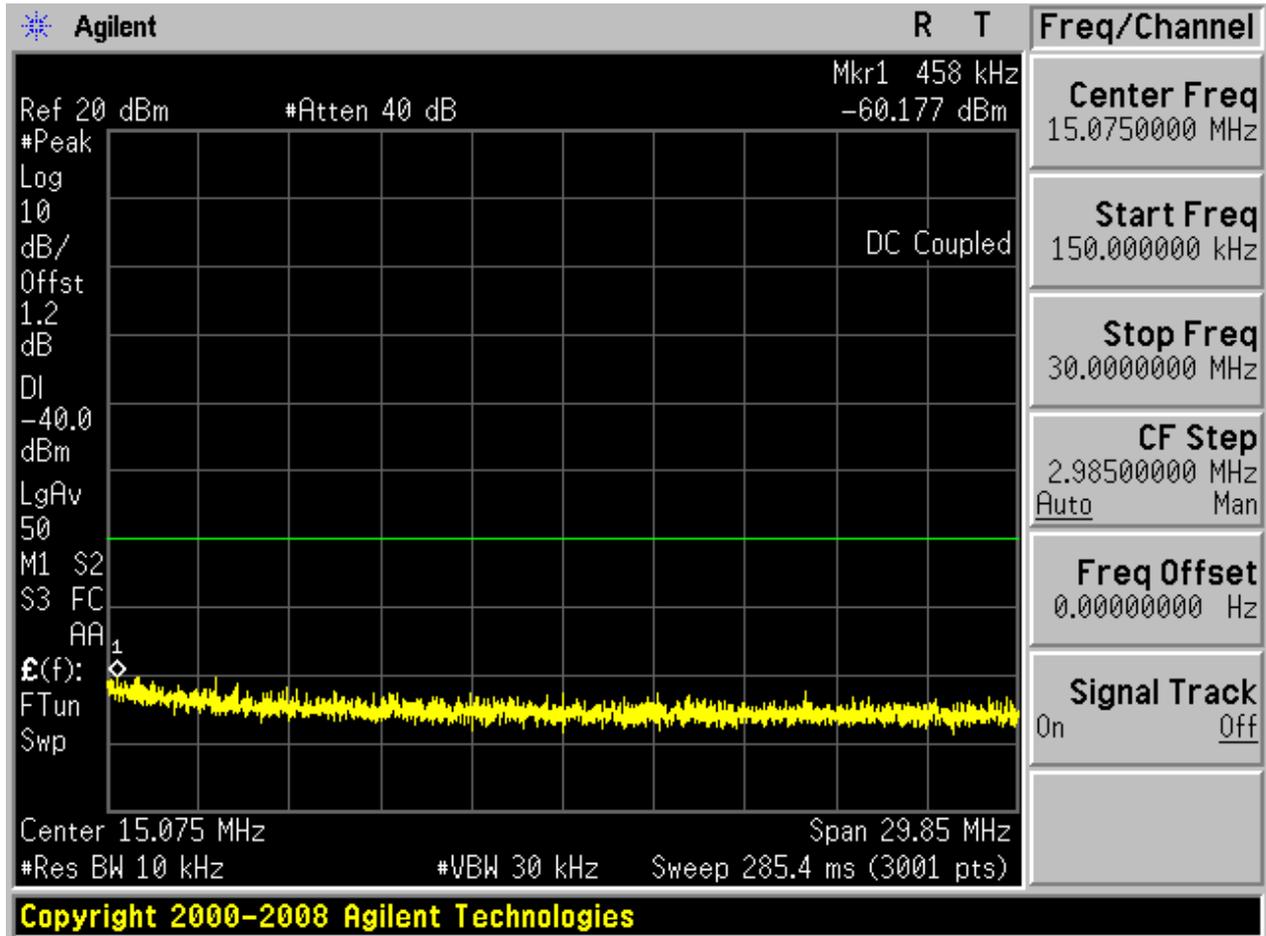
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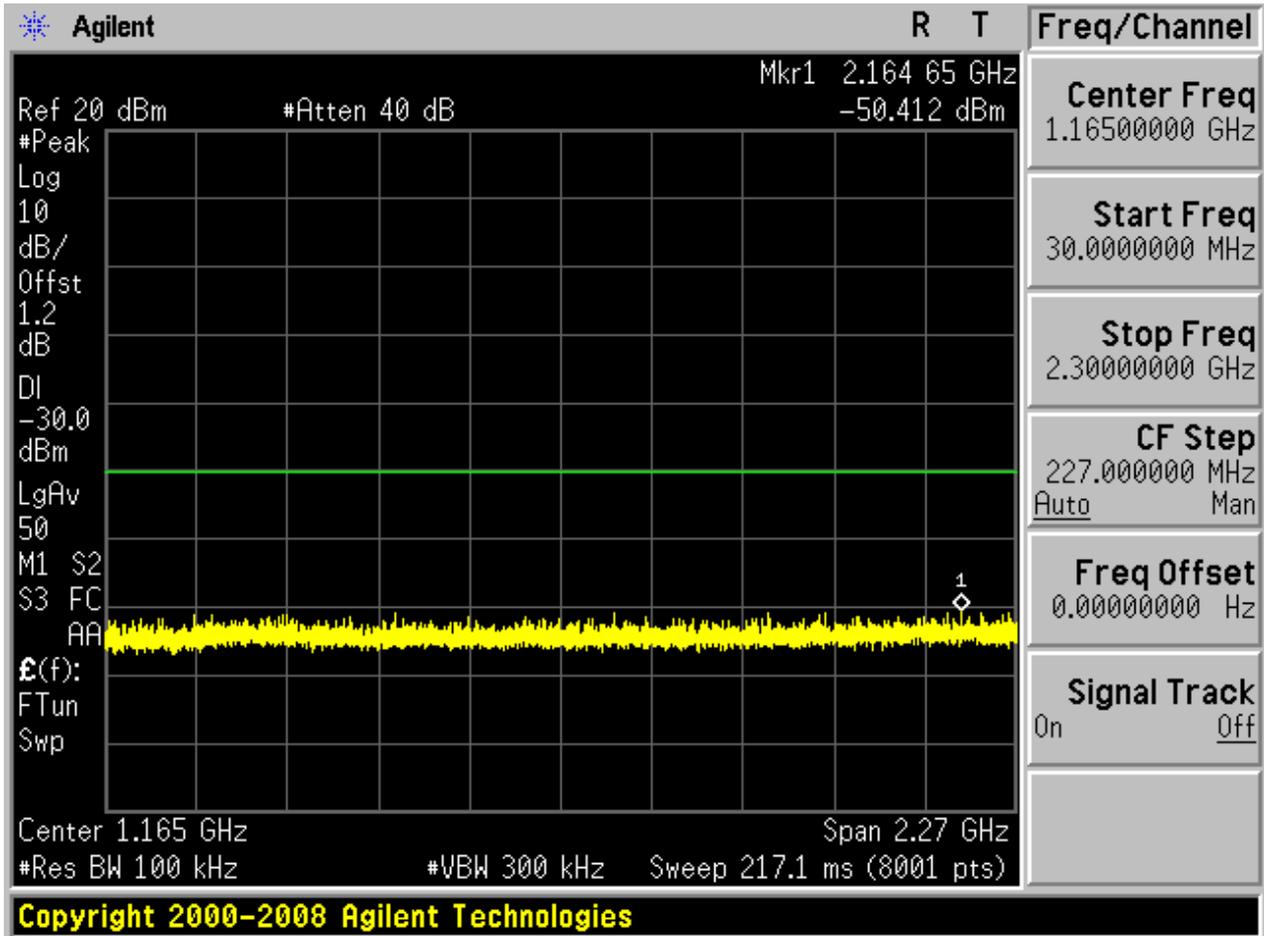


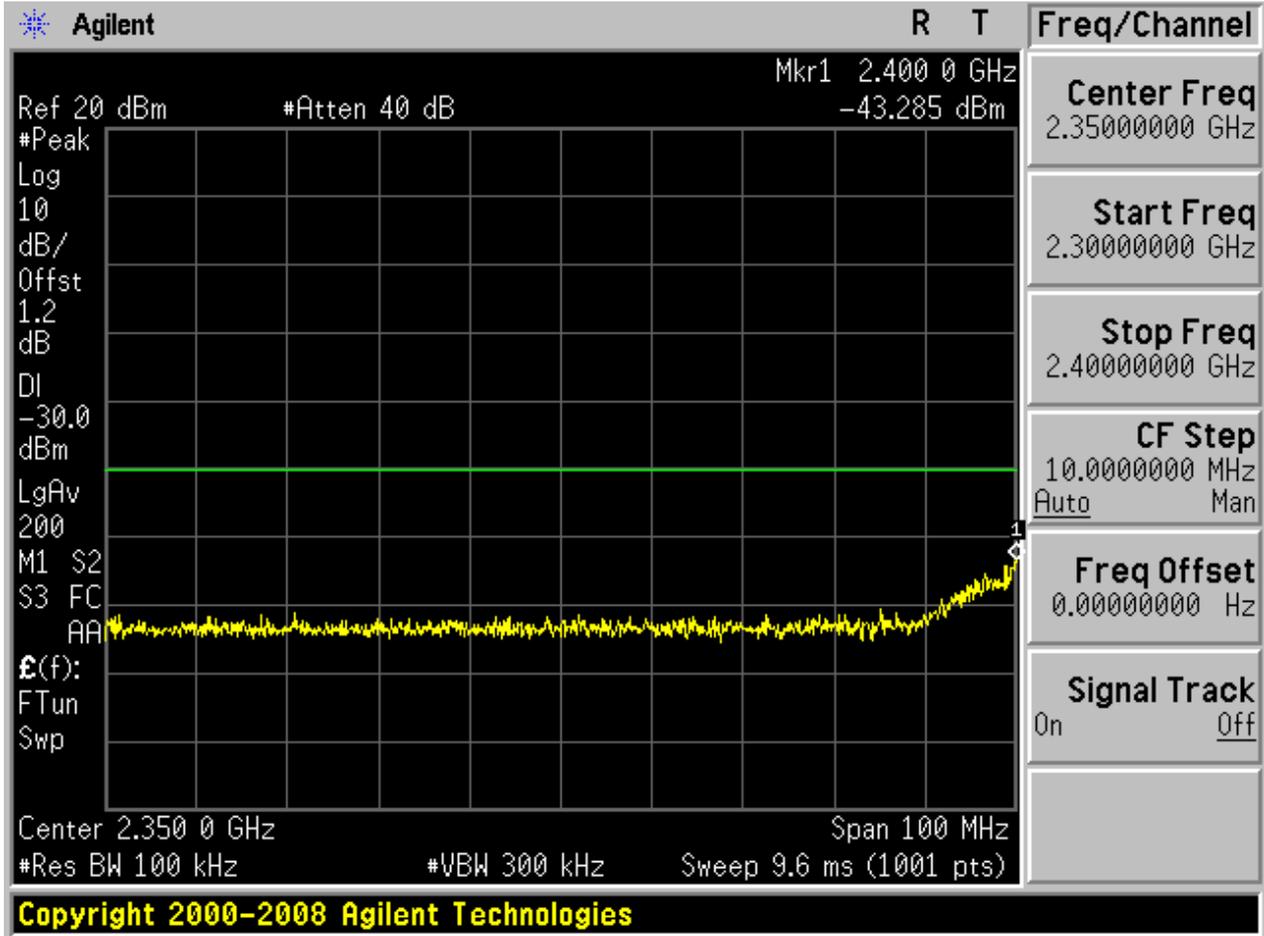


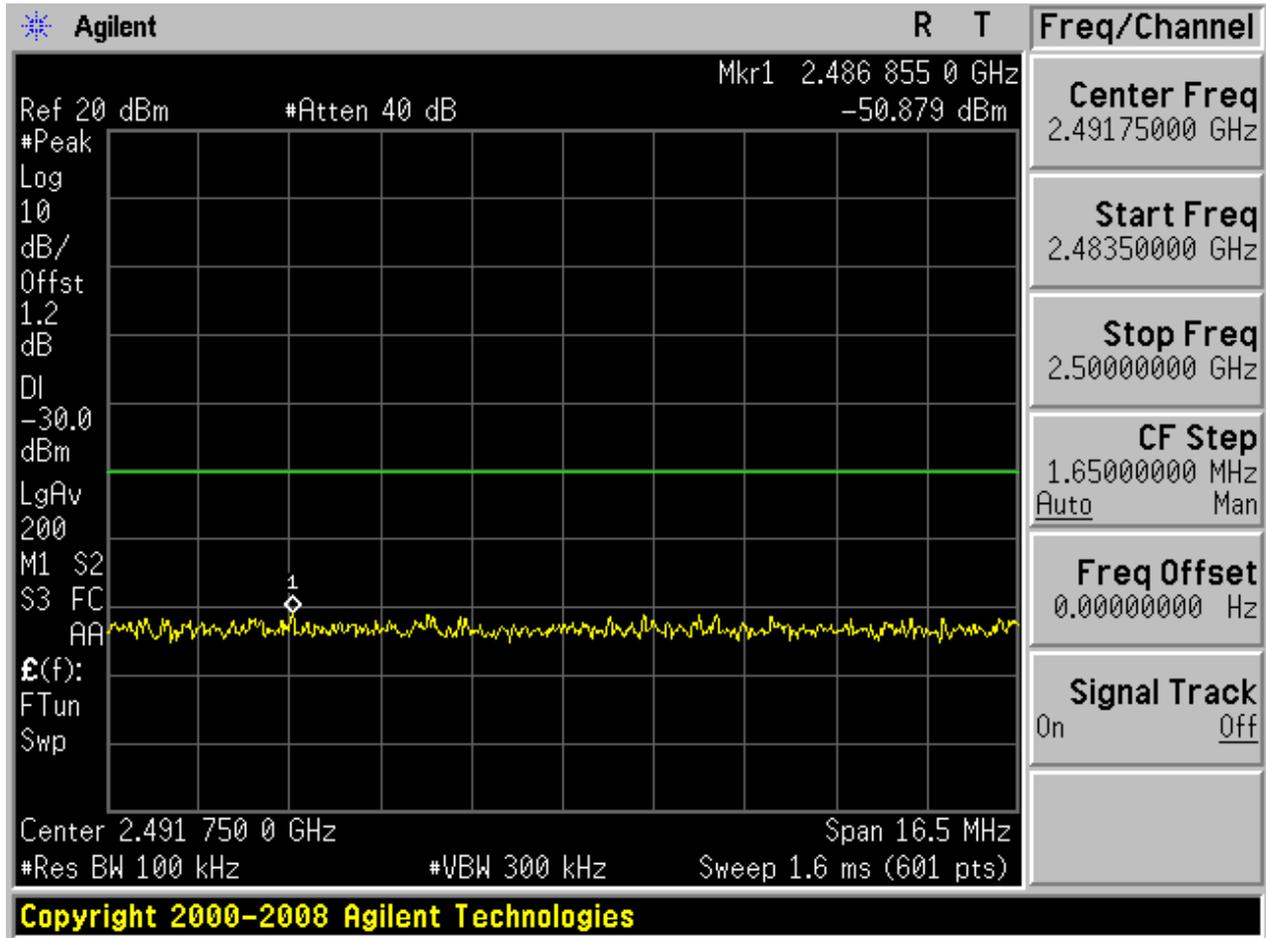
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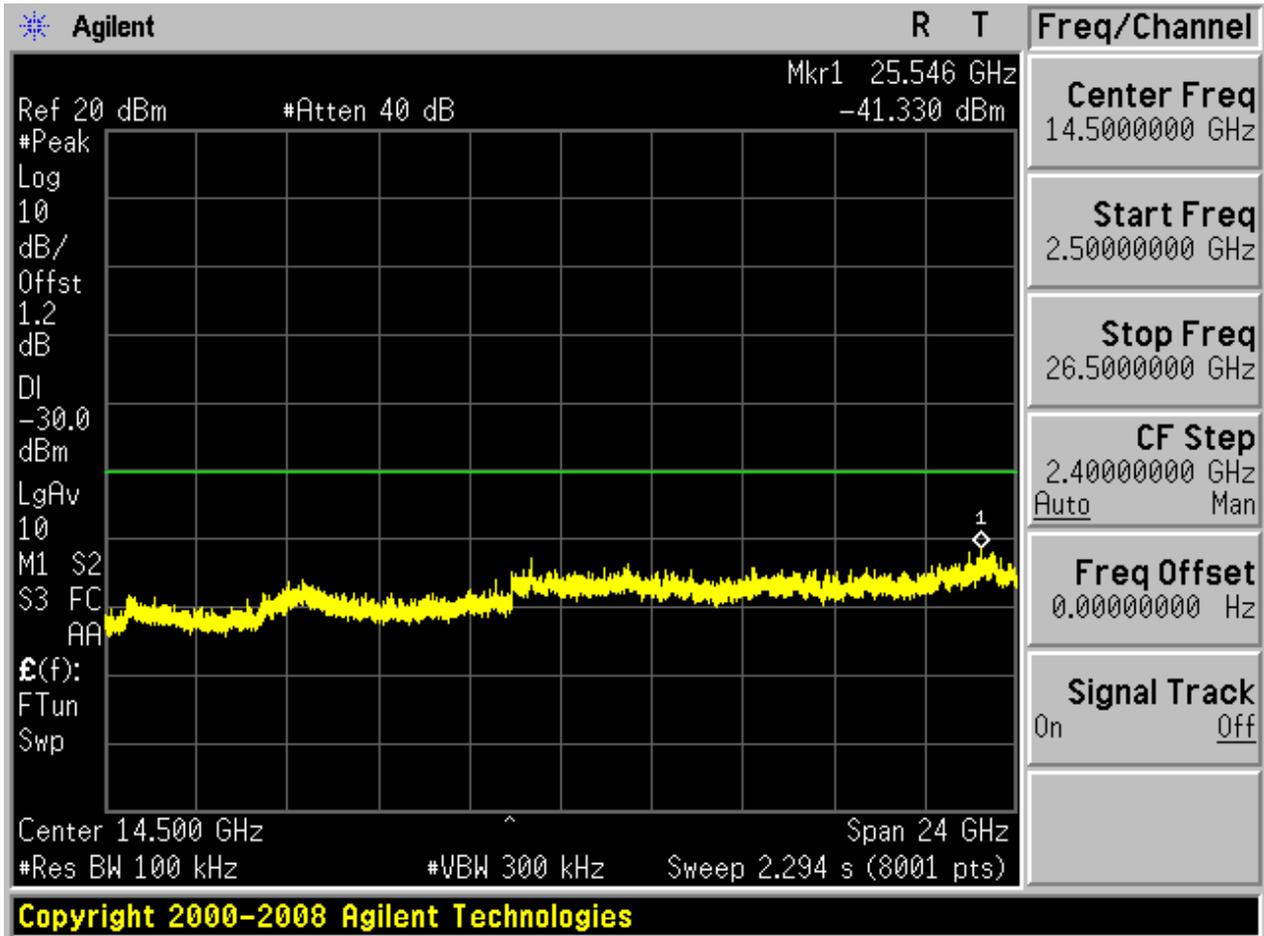








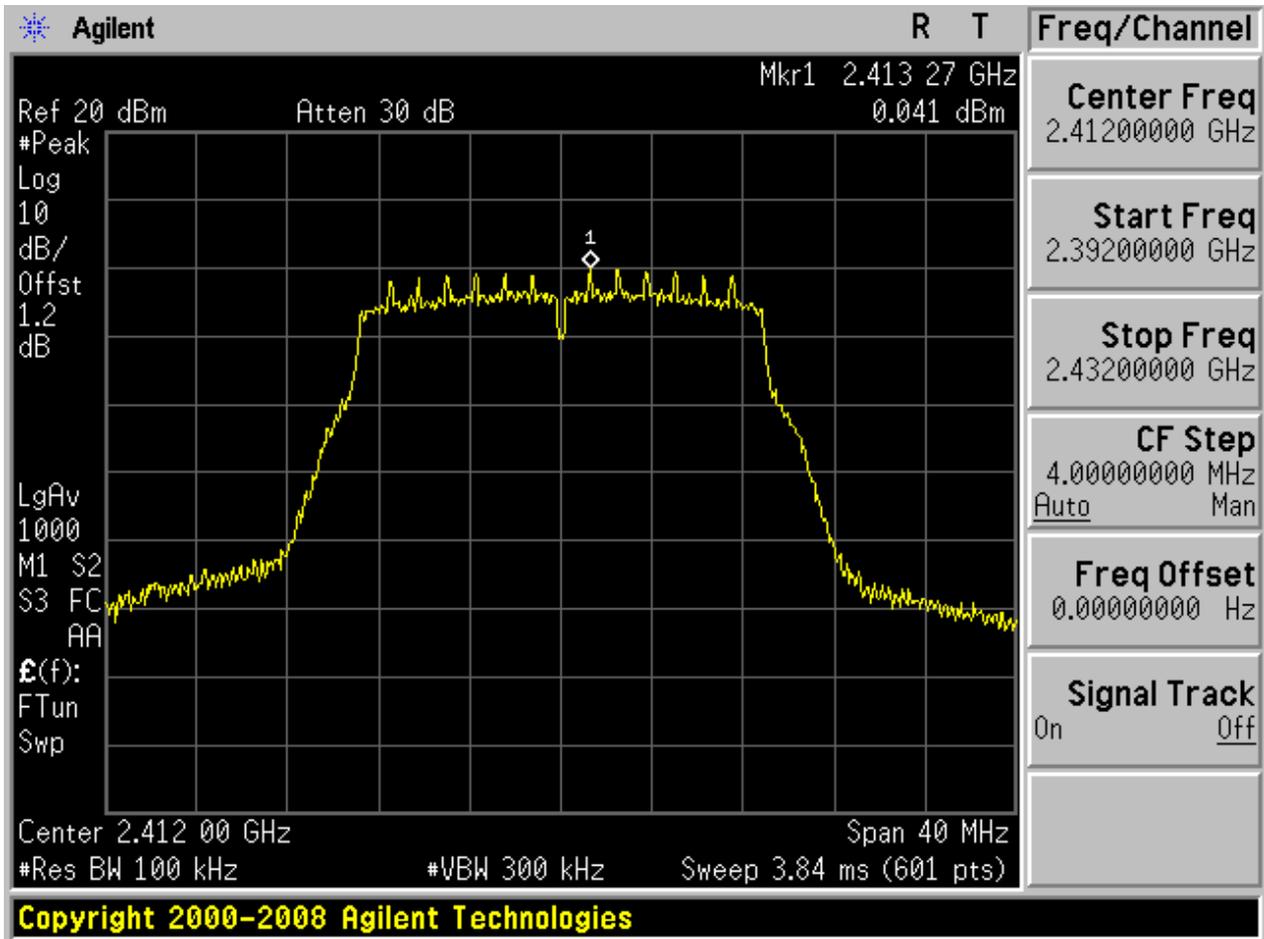






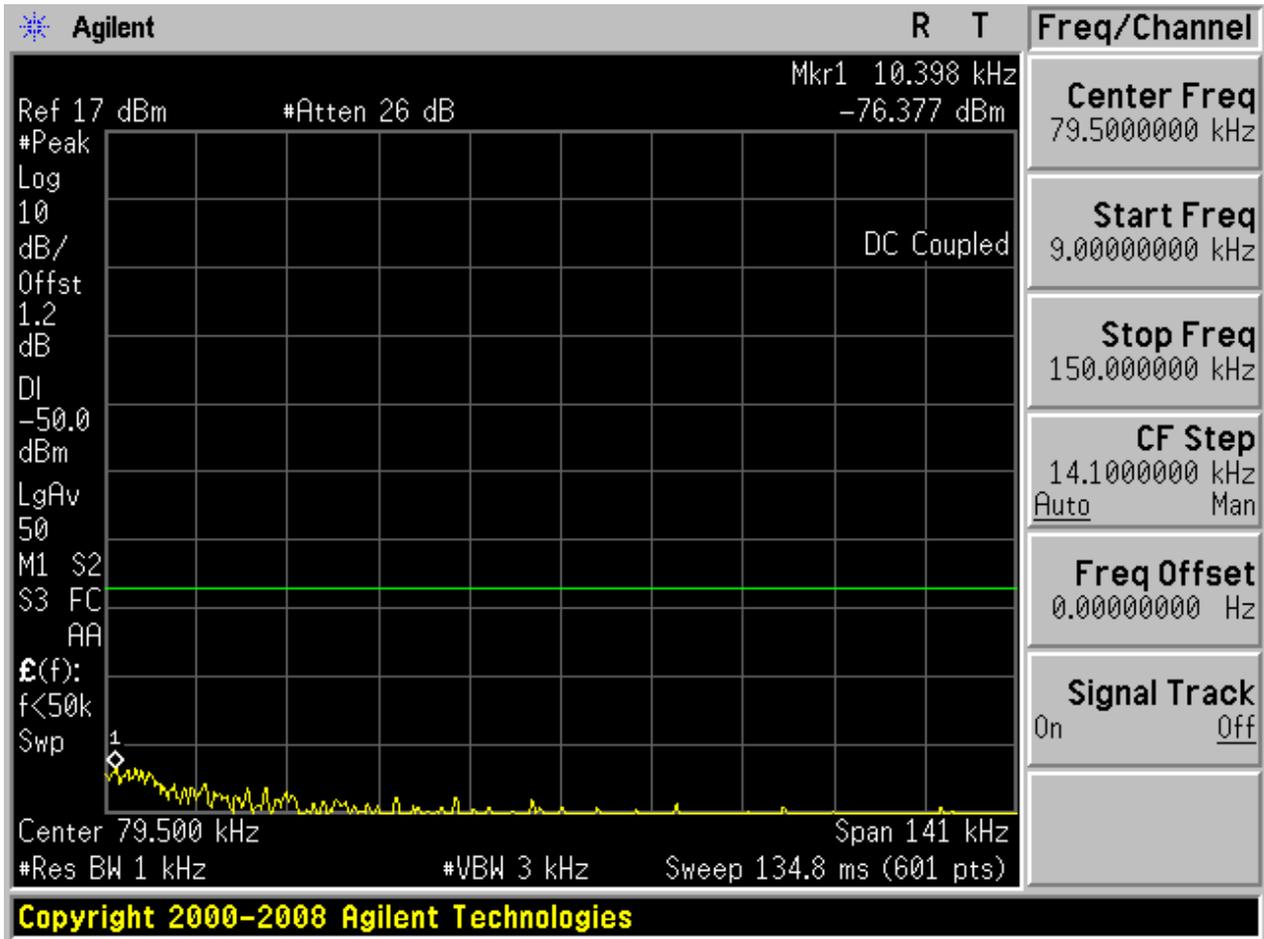
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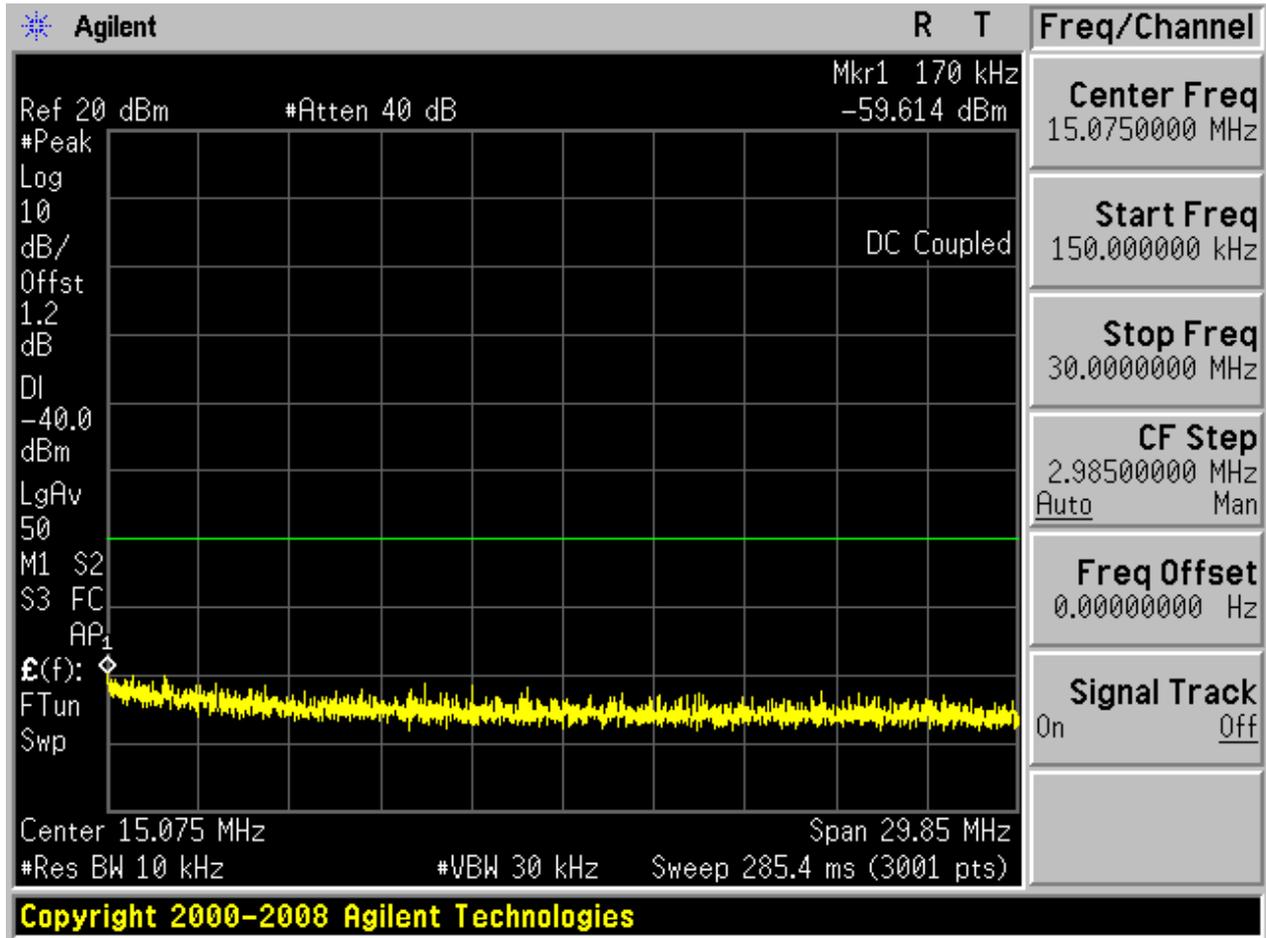
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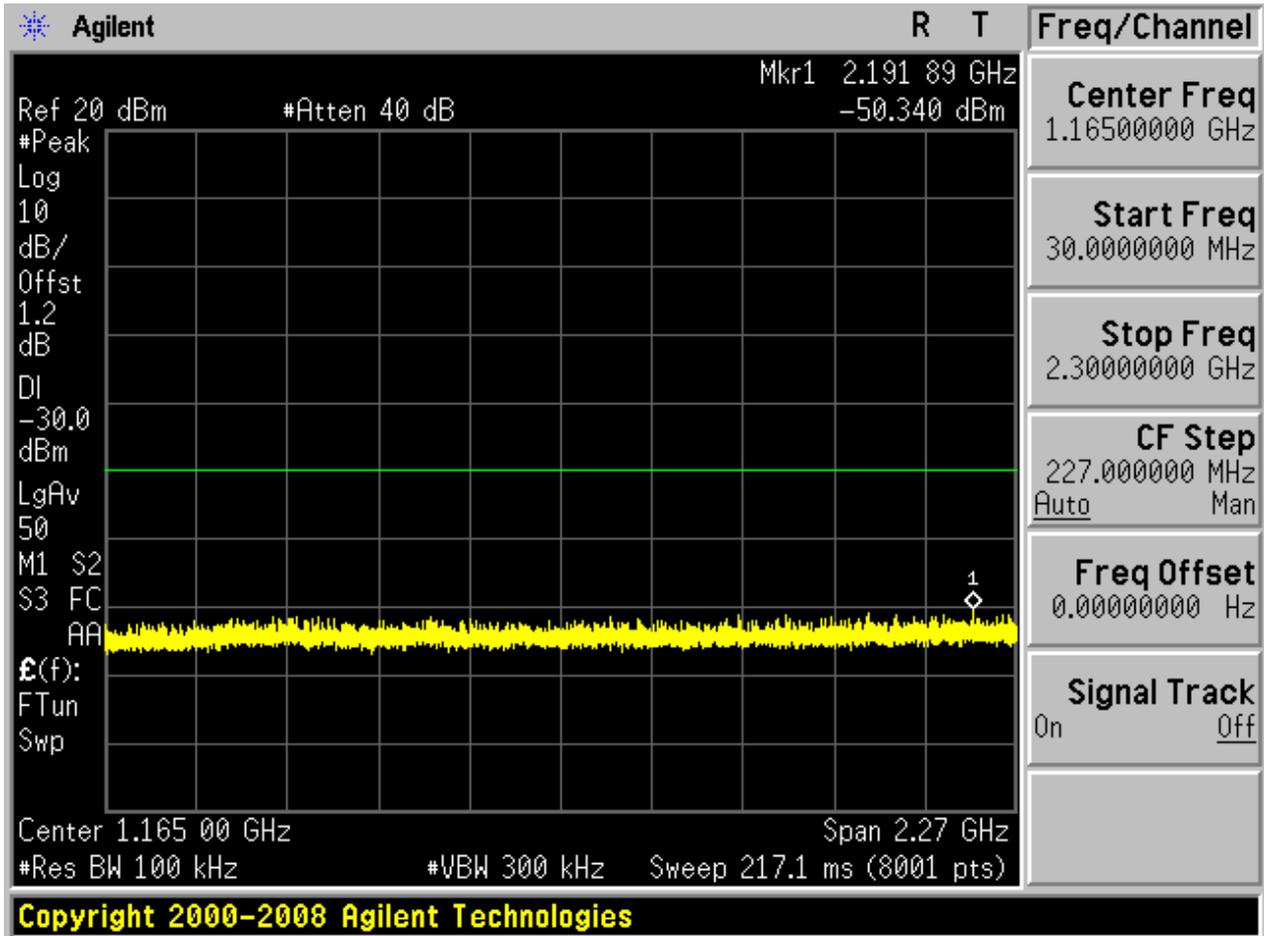


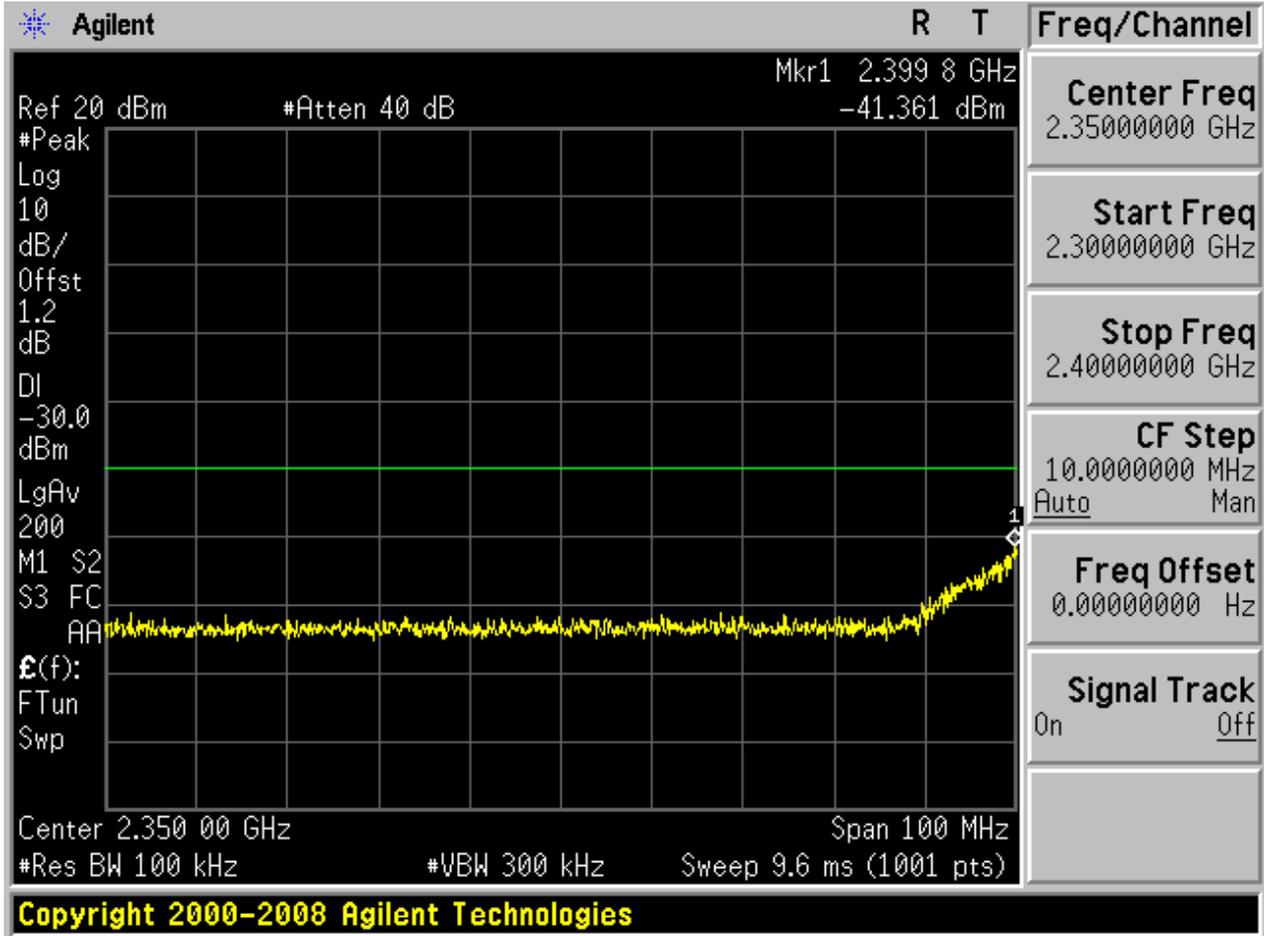


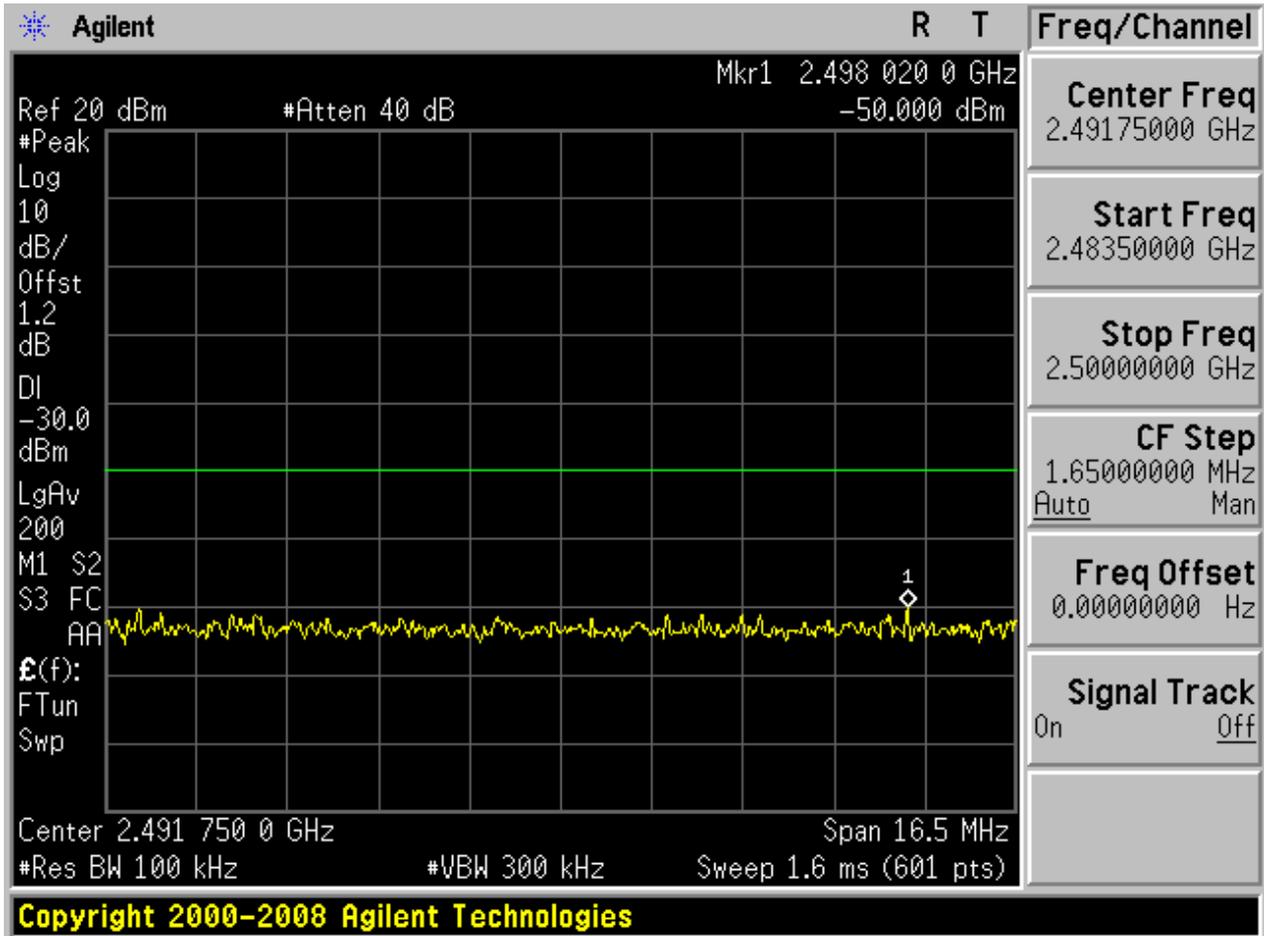
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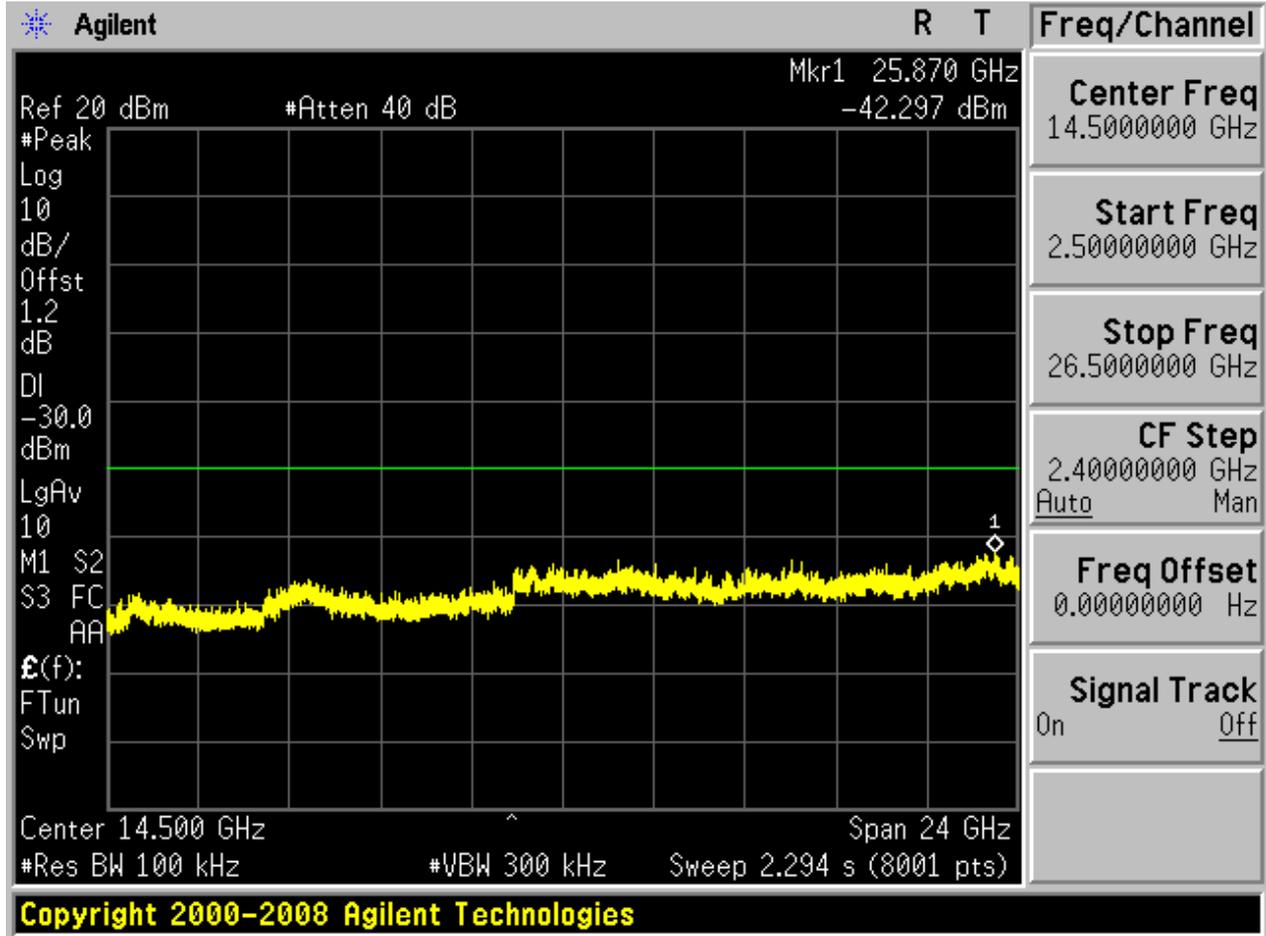






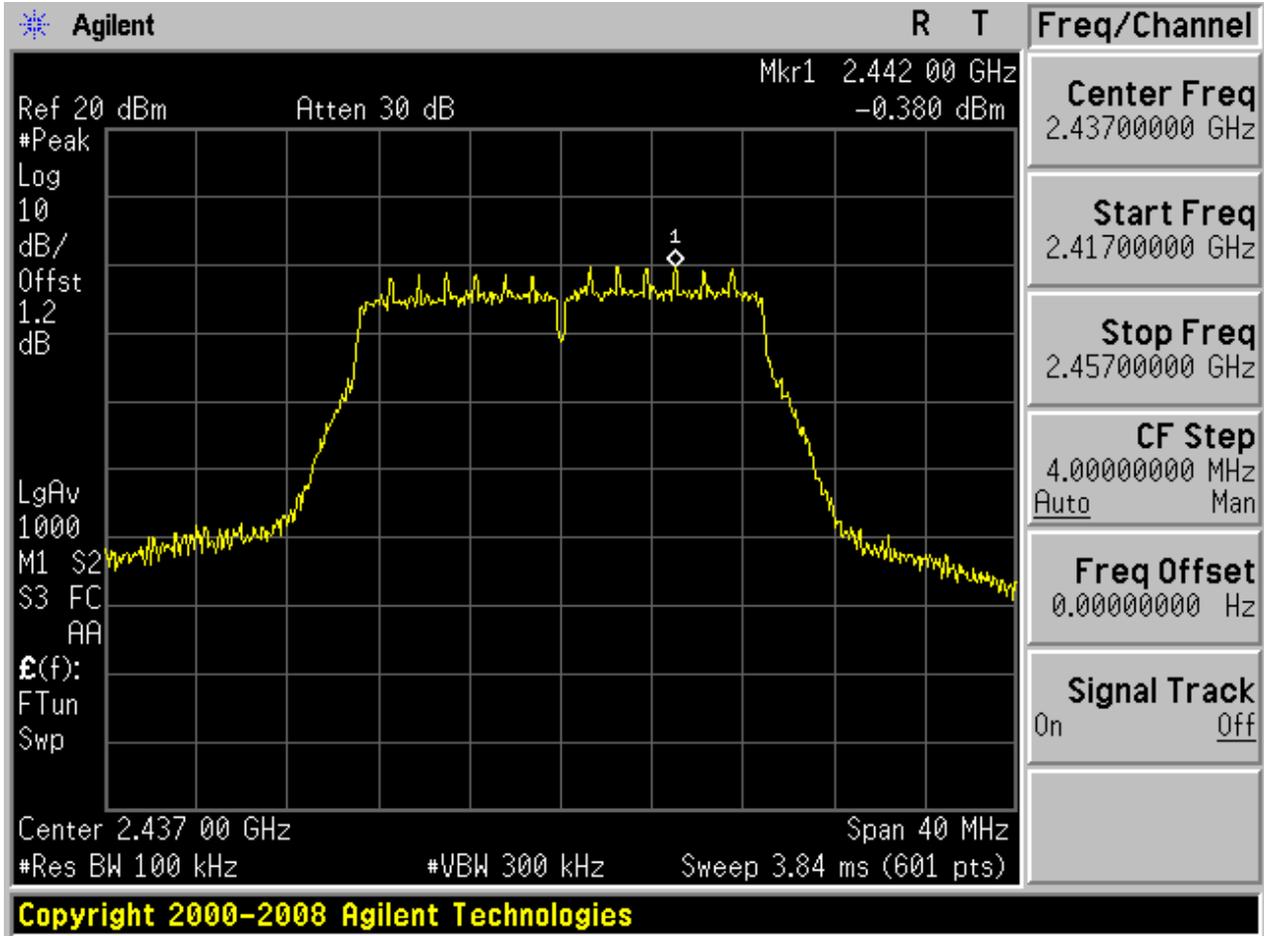






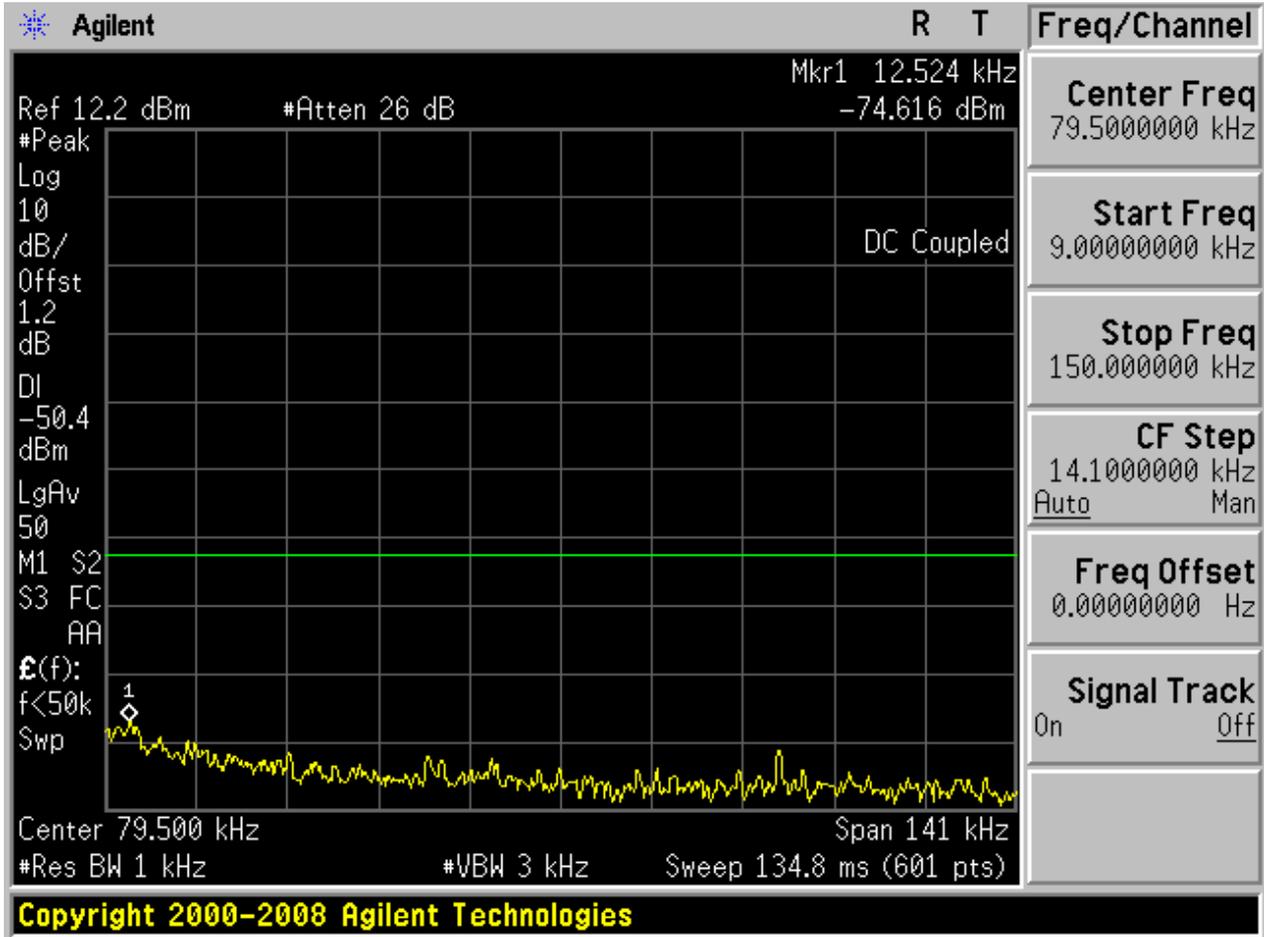
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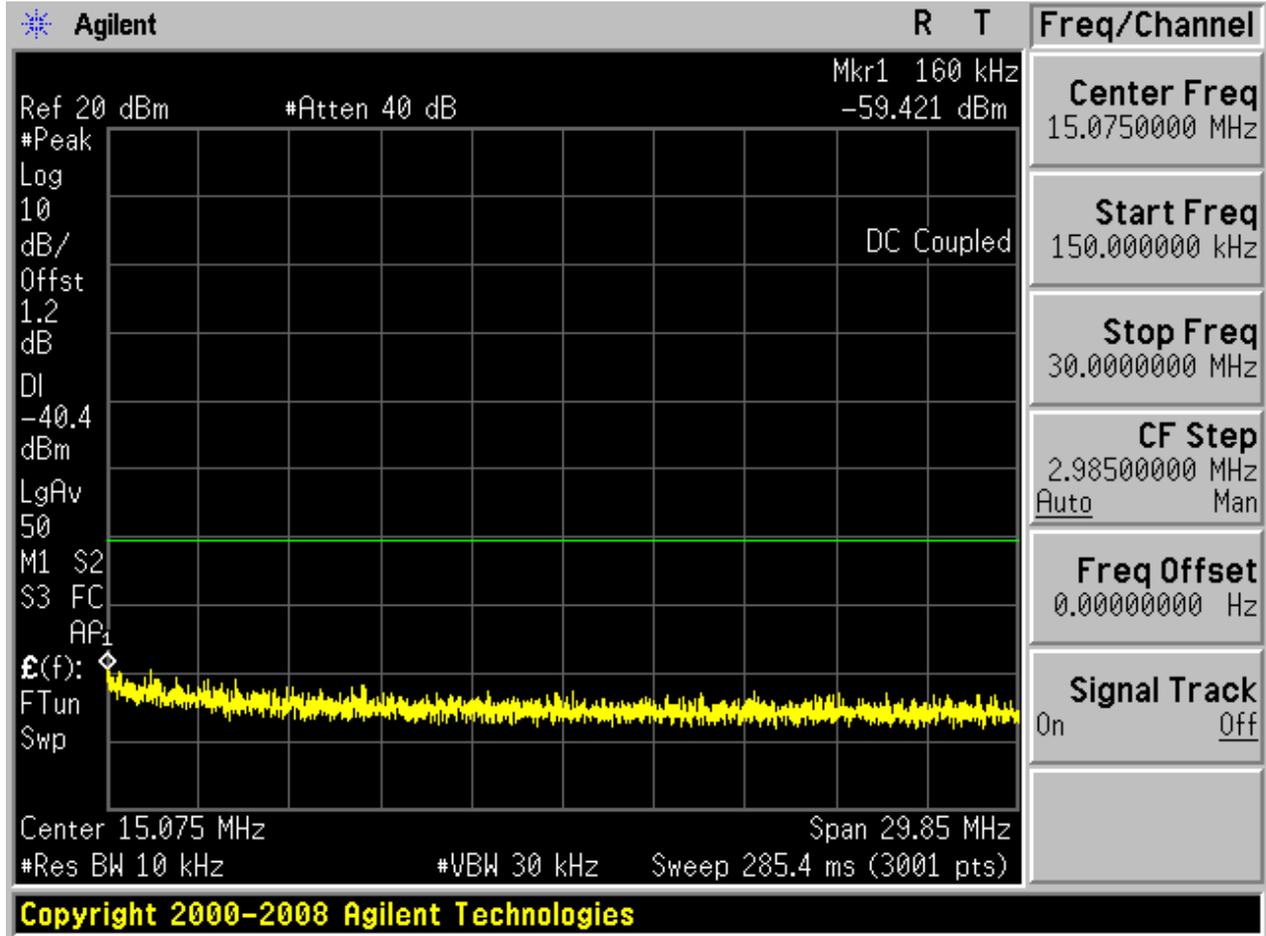
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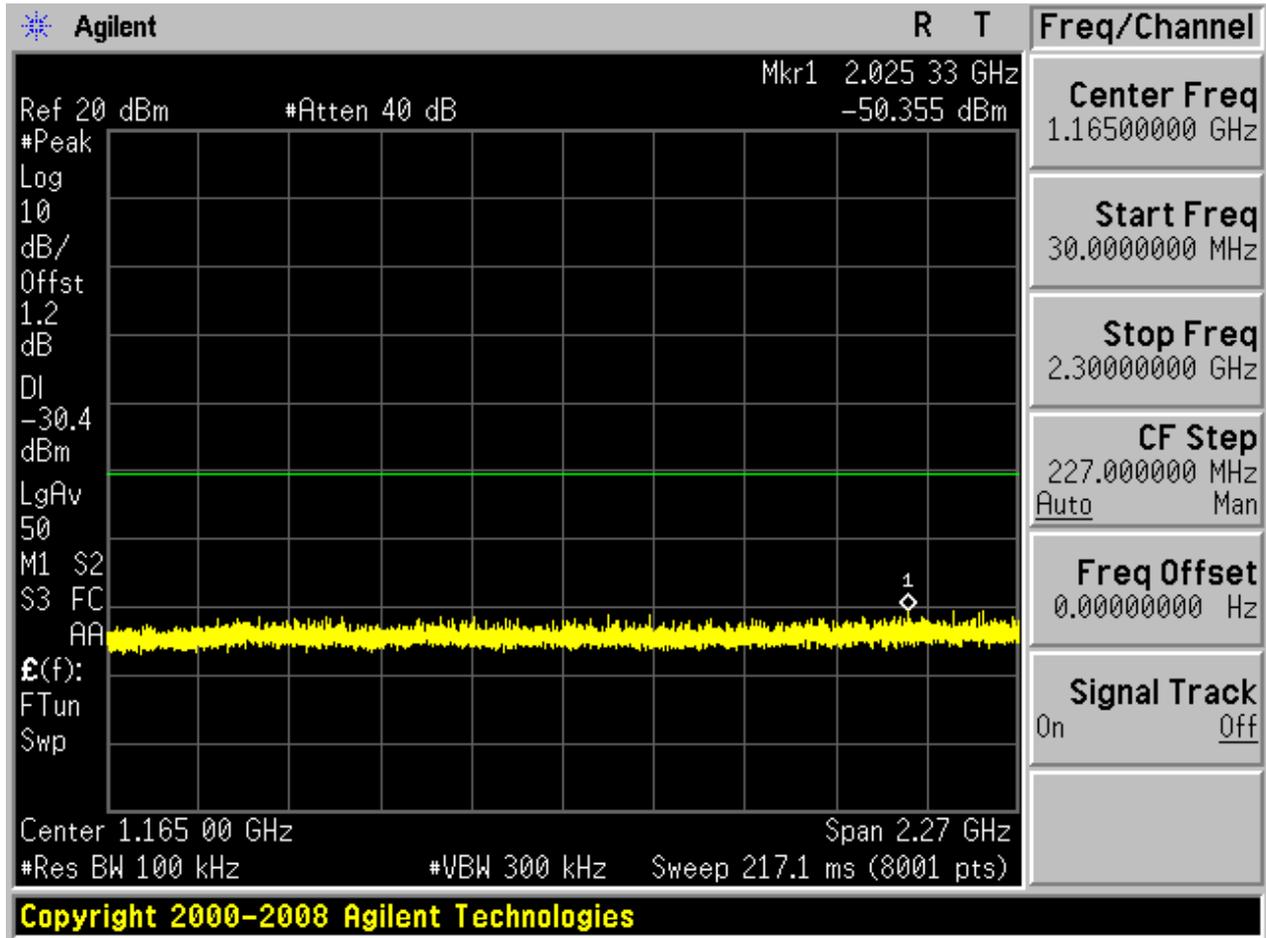


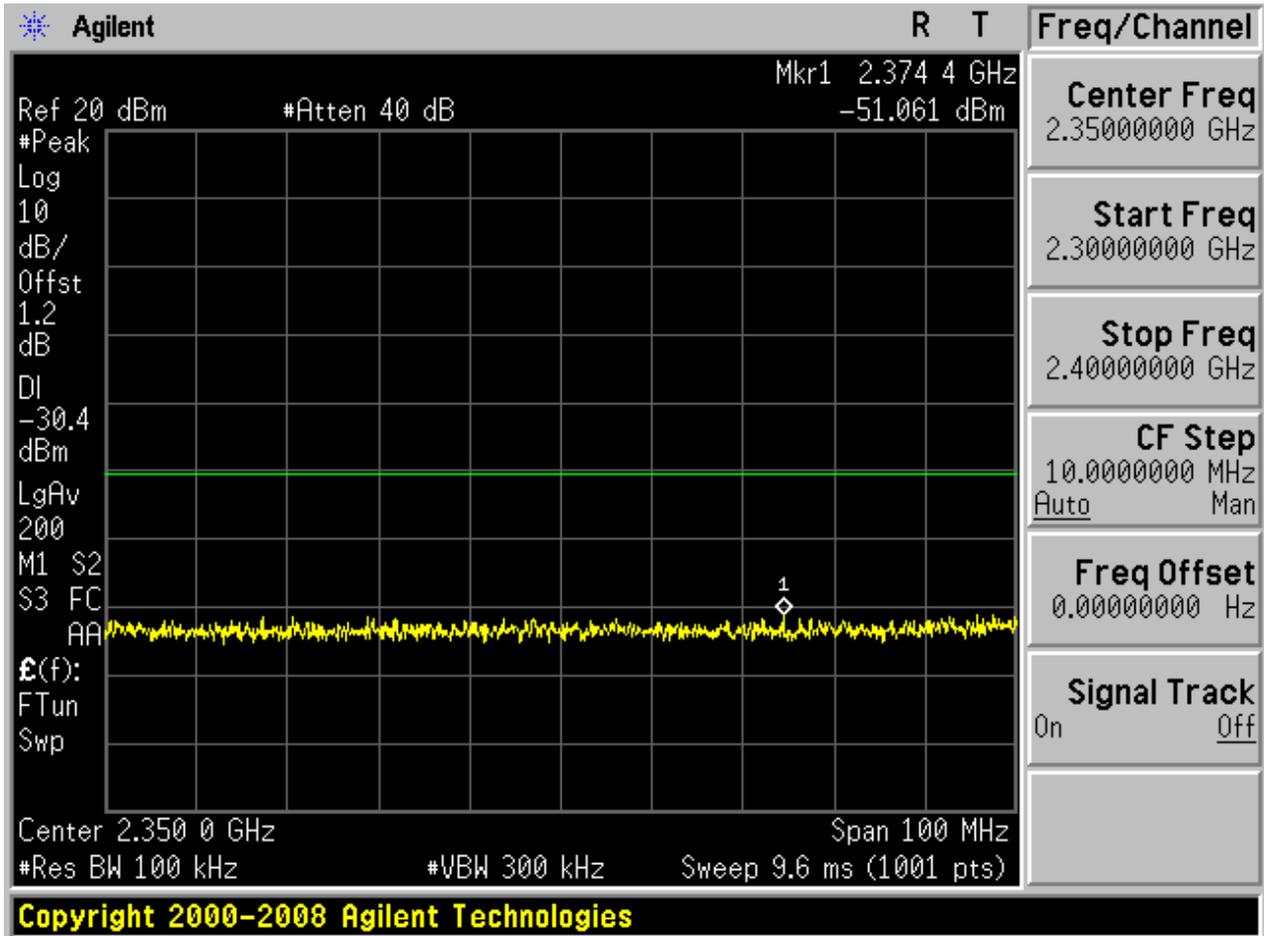


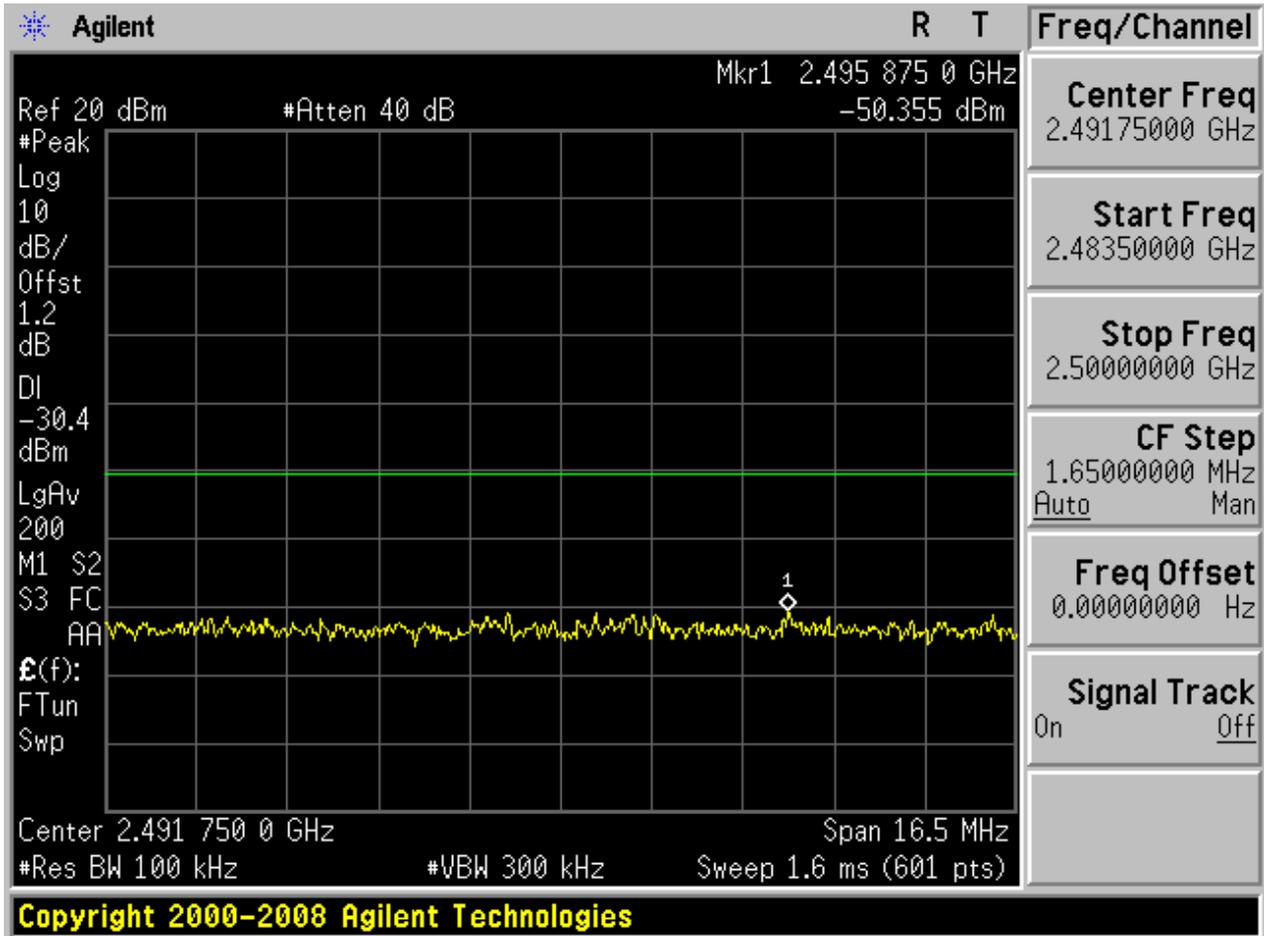
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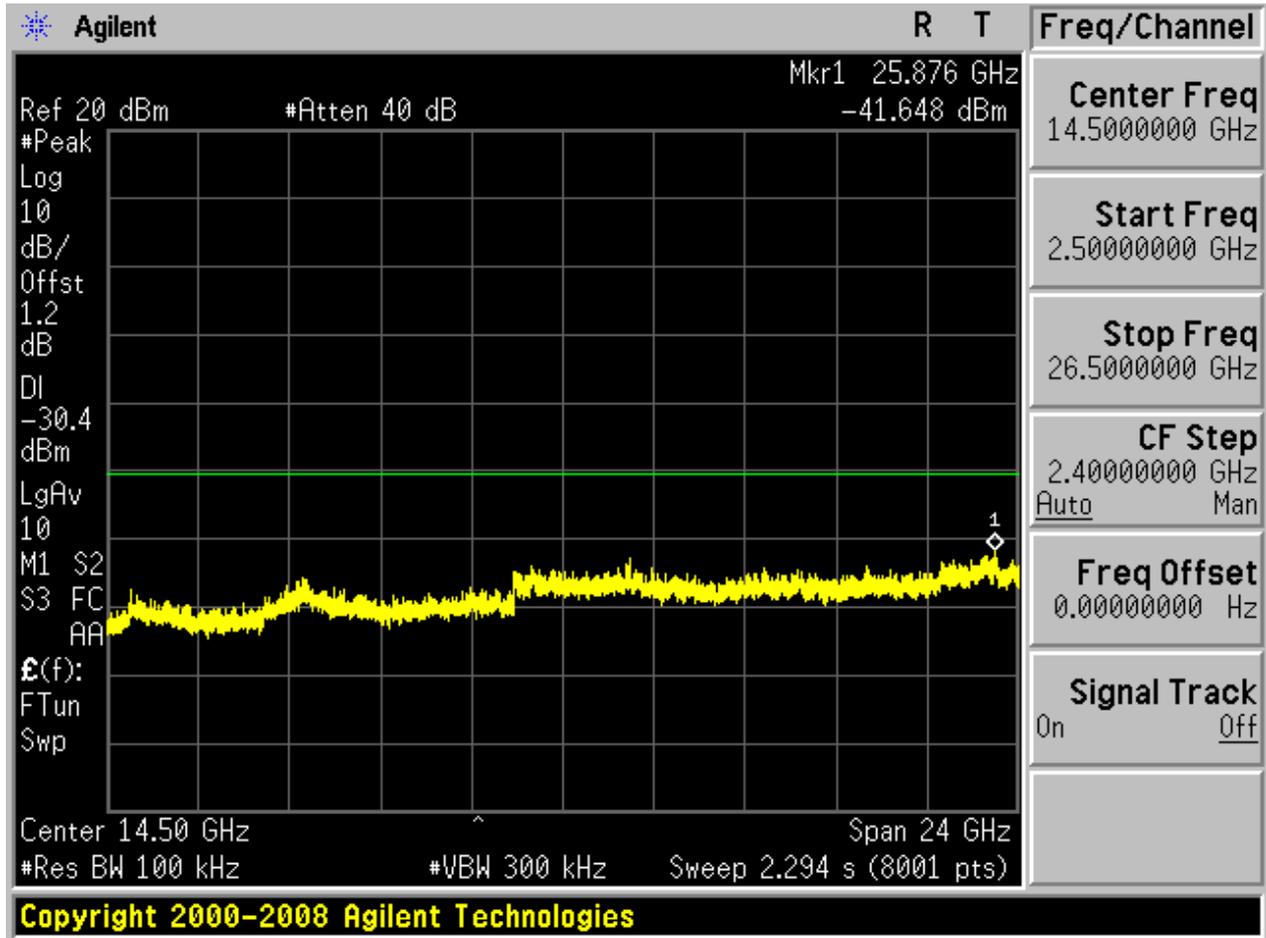








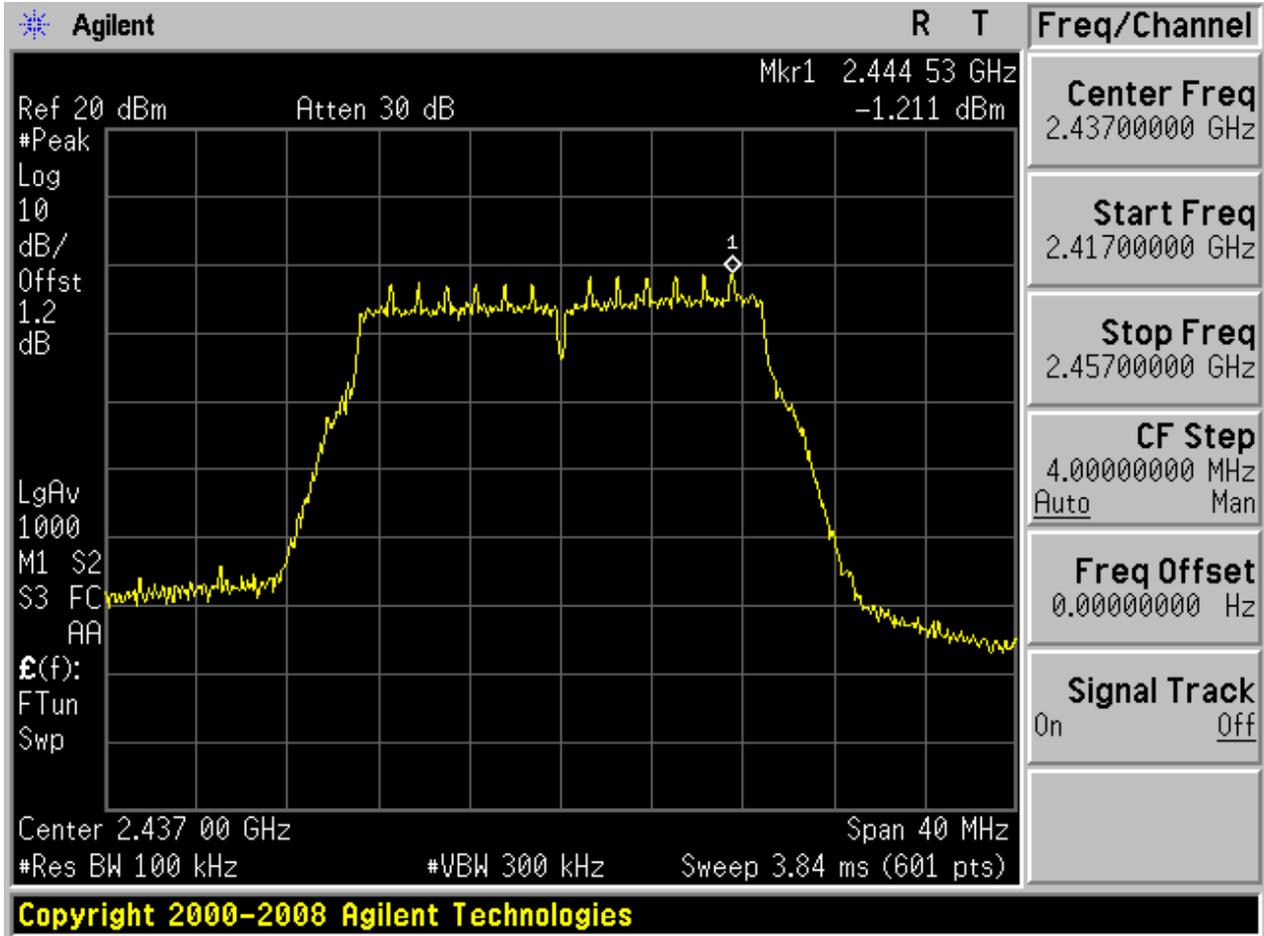






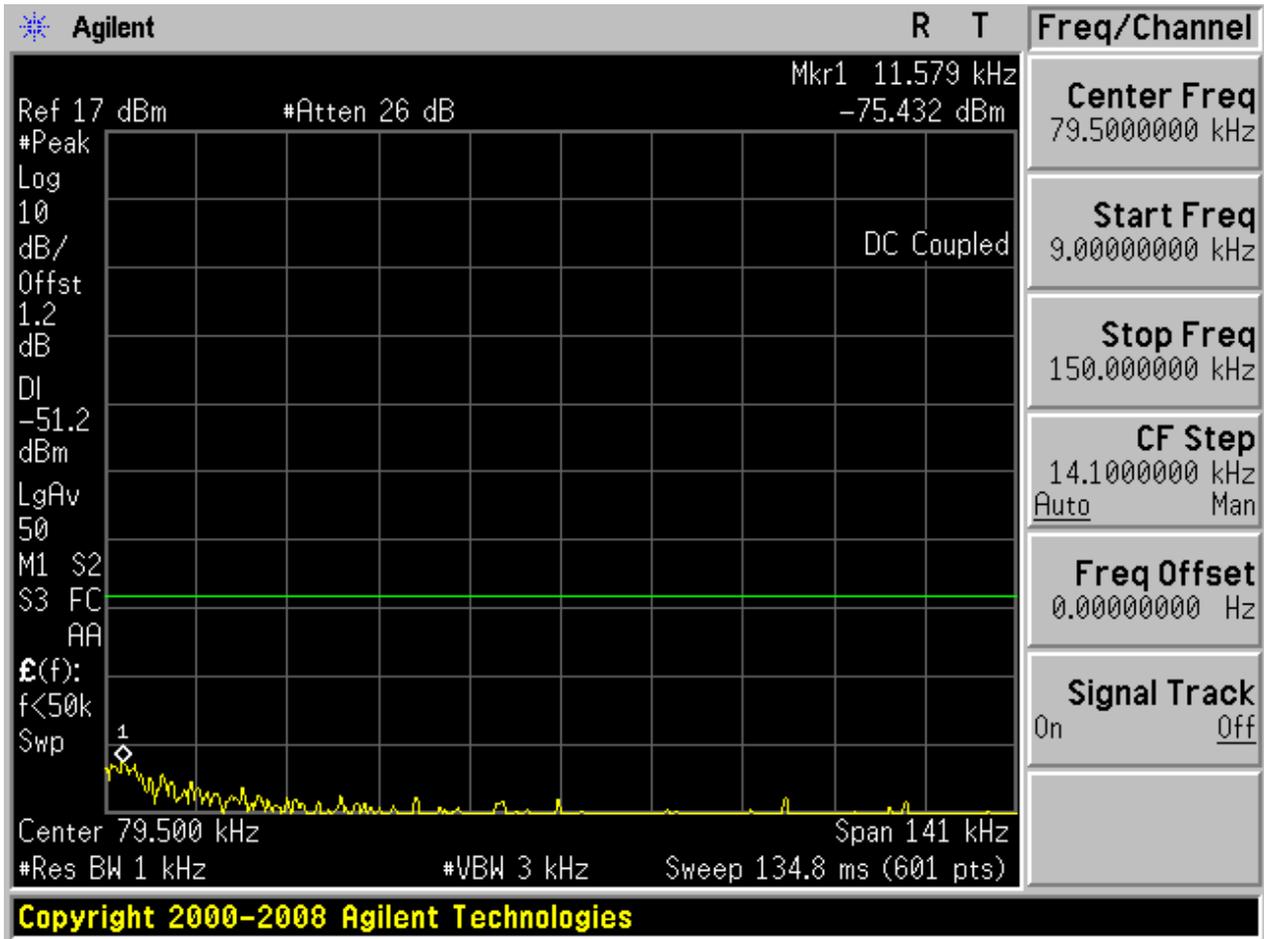
2.16 11N20_M@Ant 2

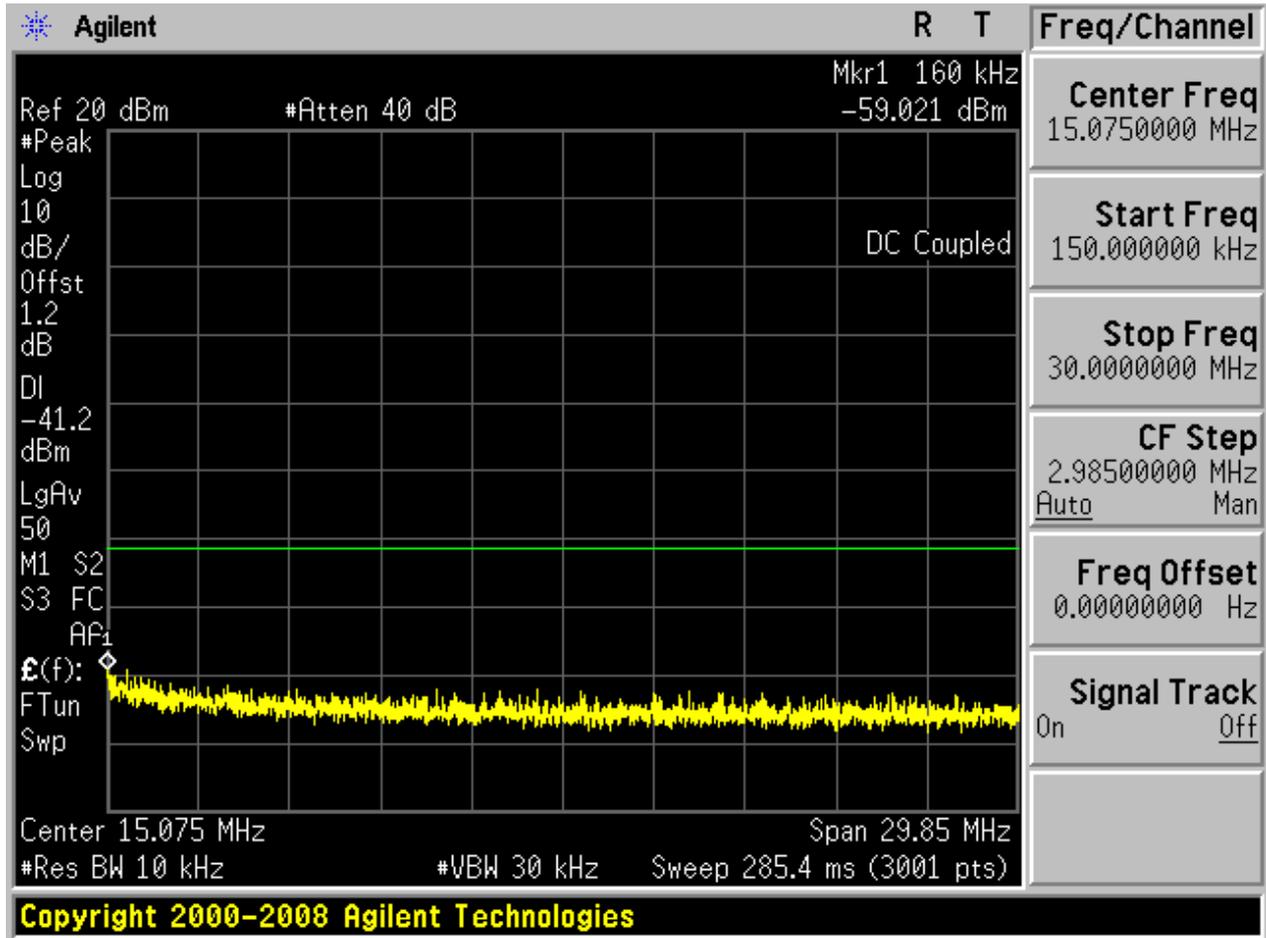
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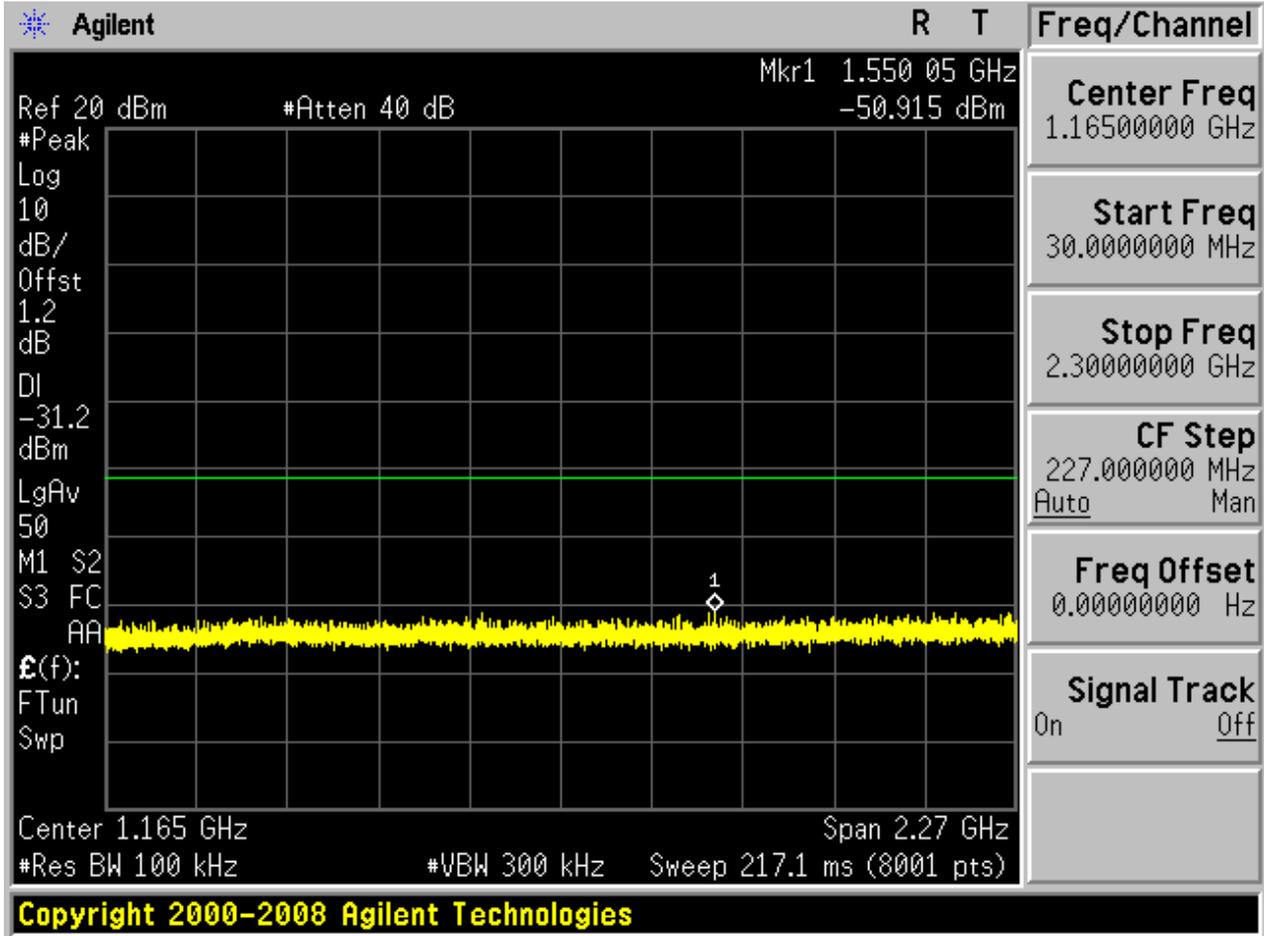


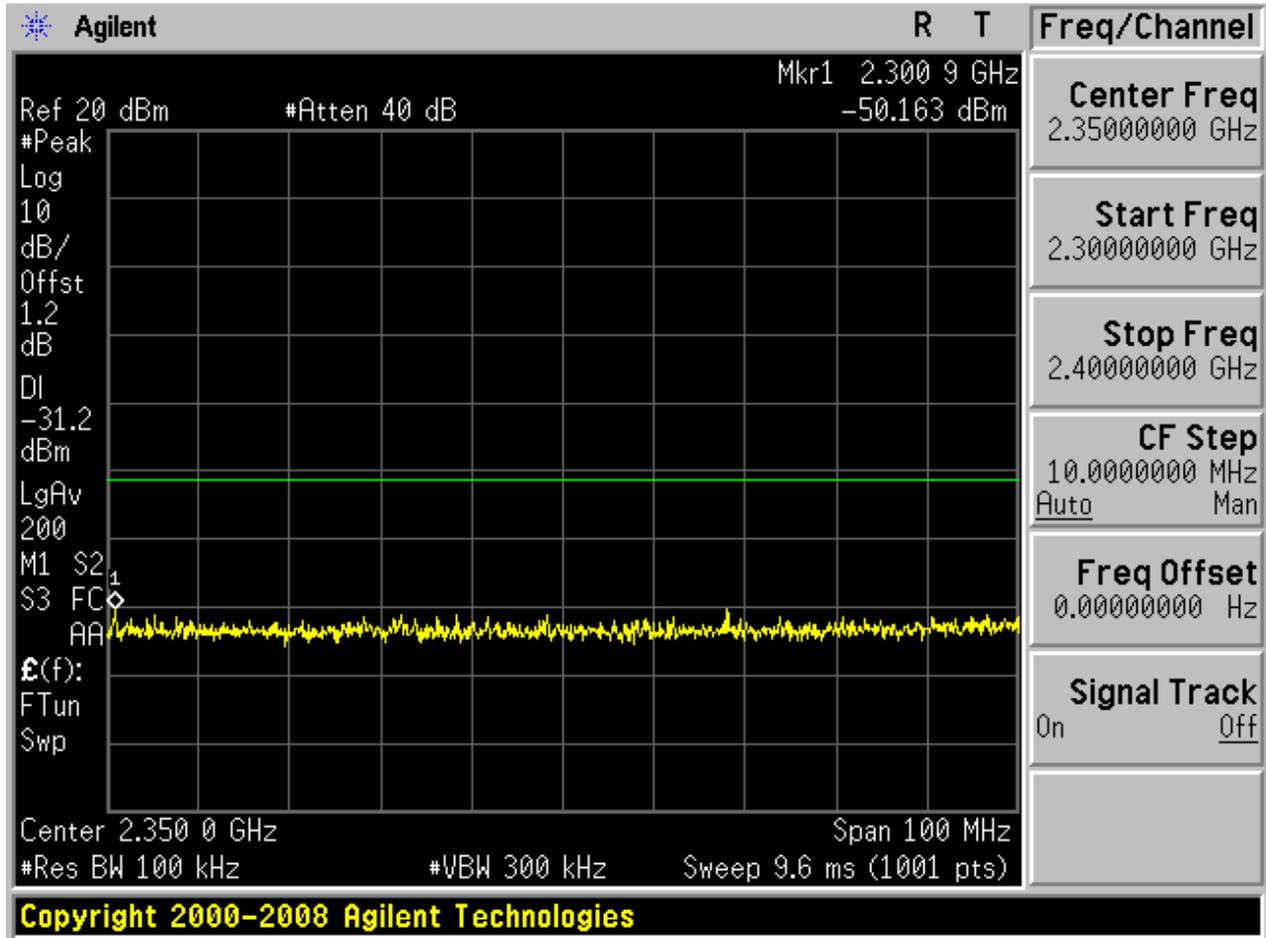


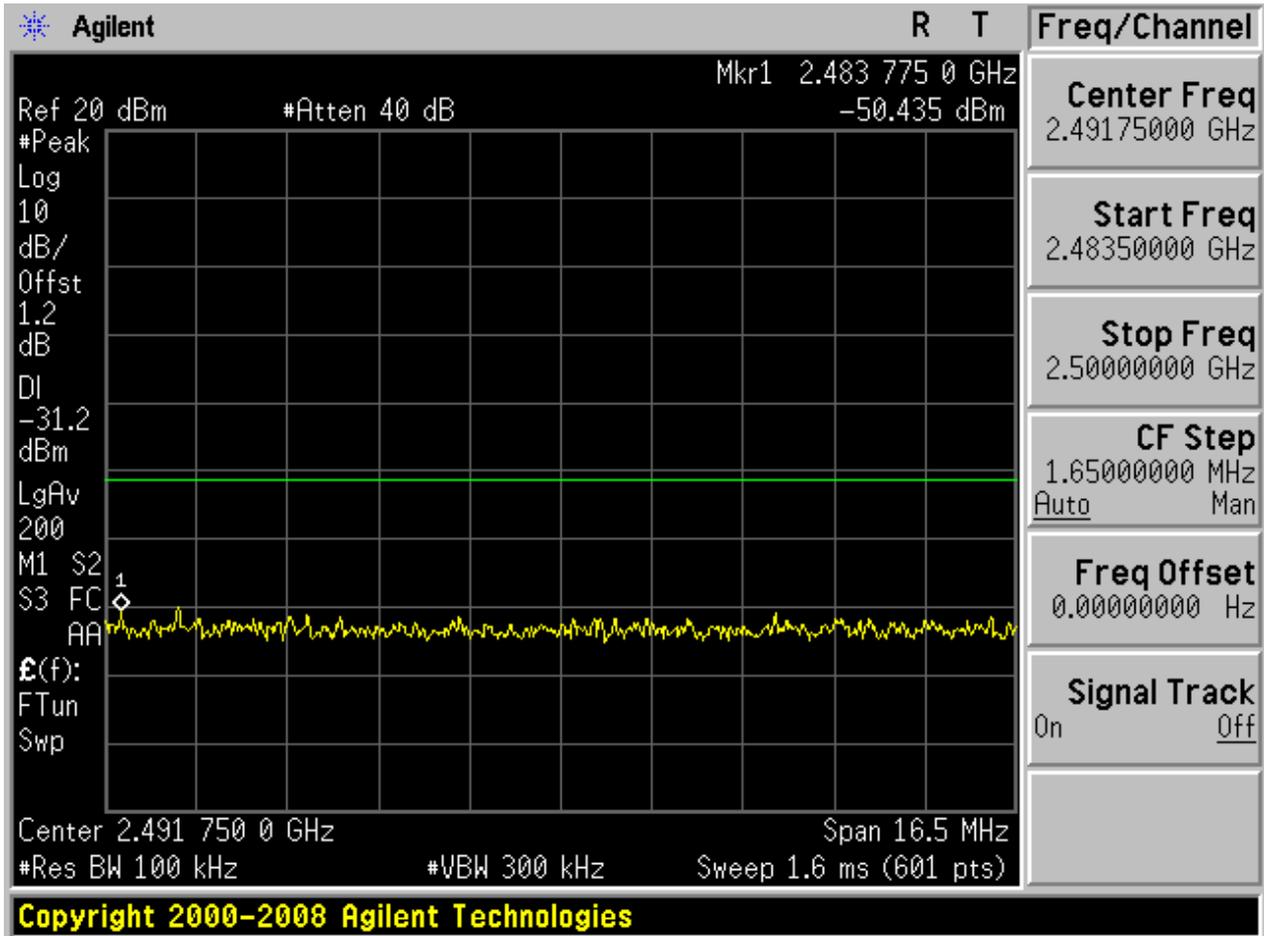
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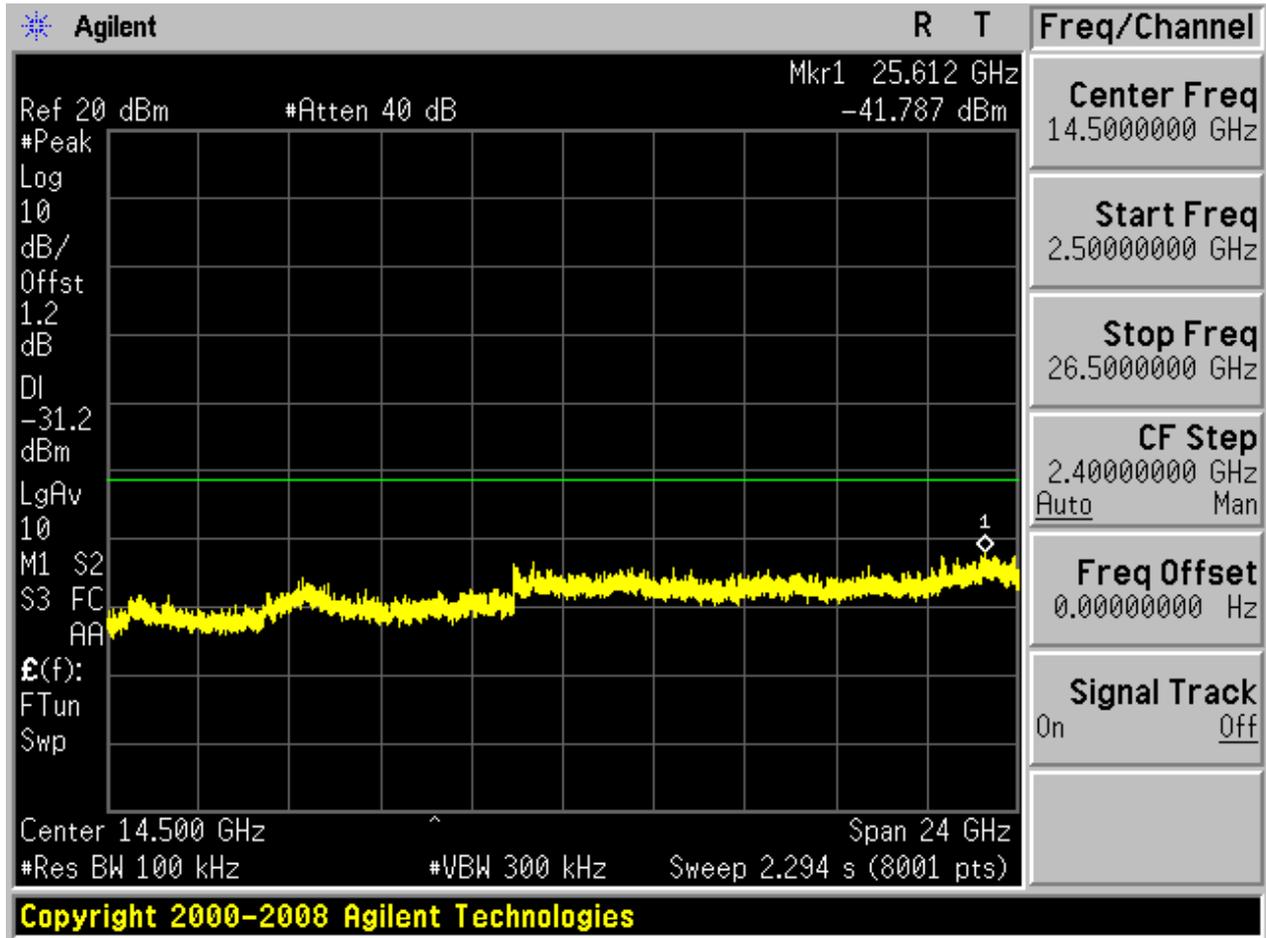








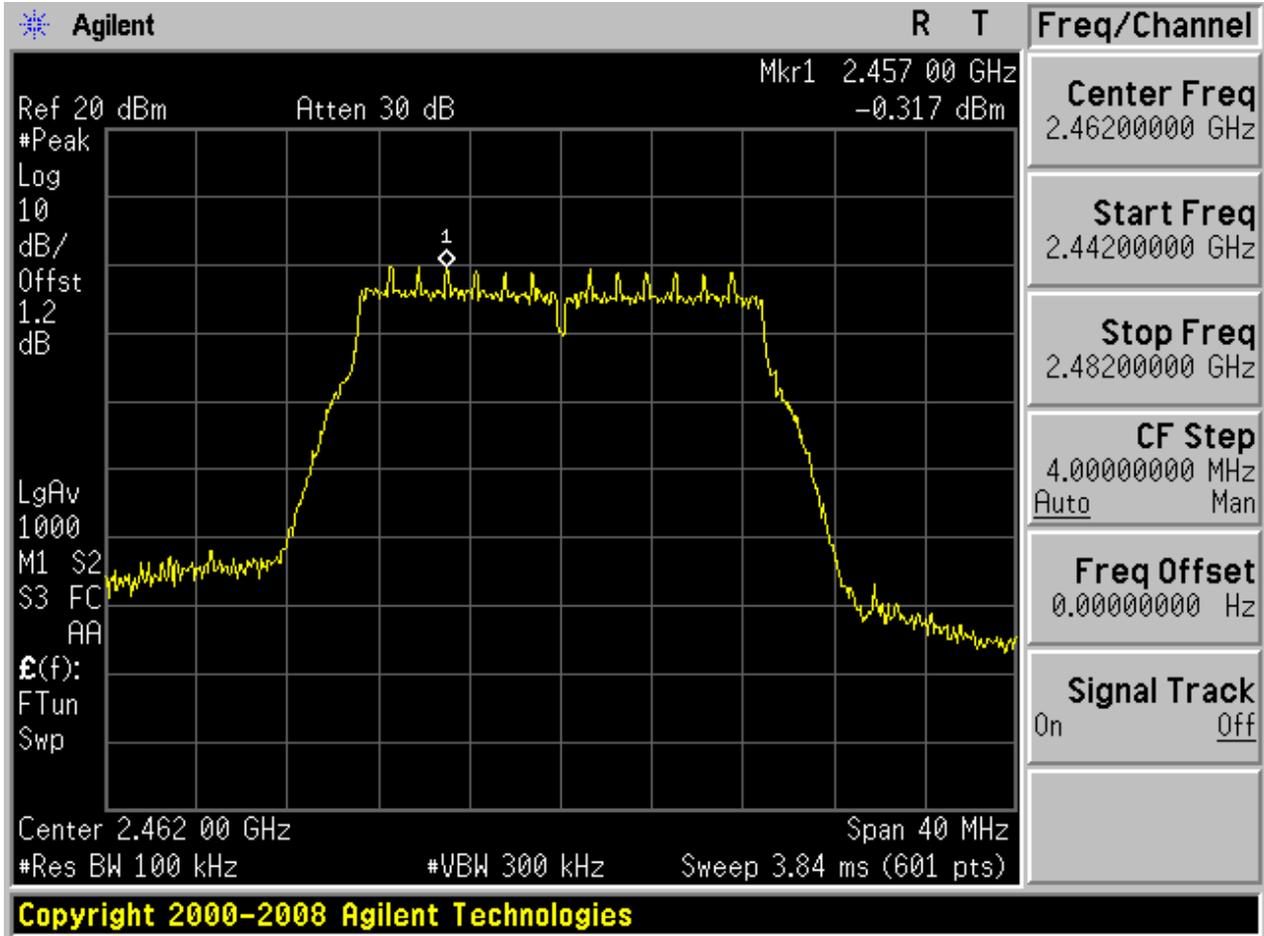






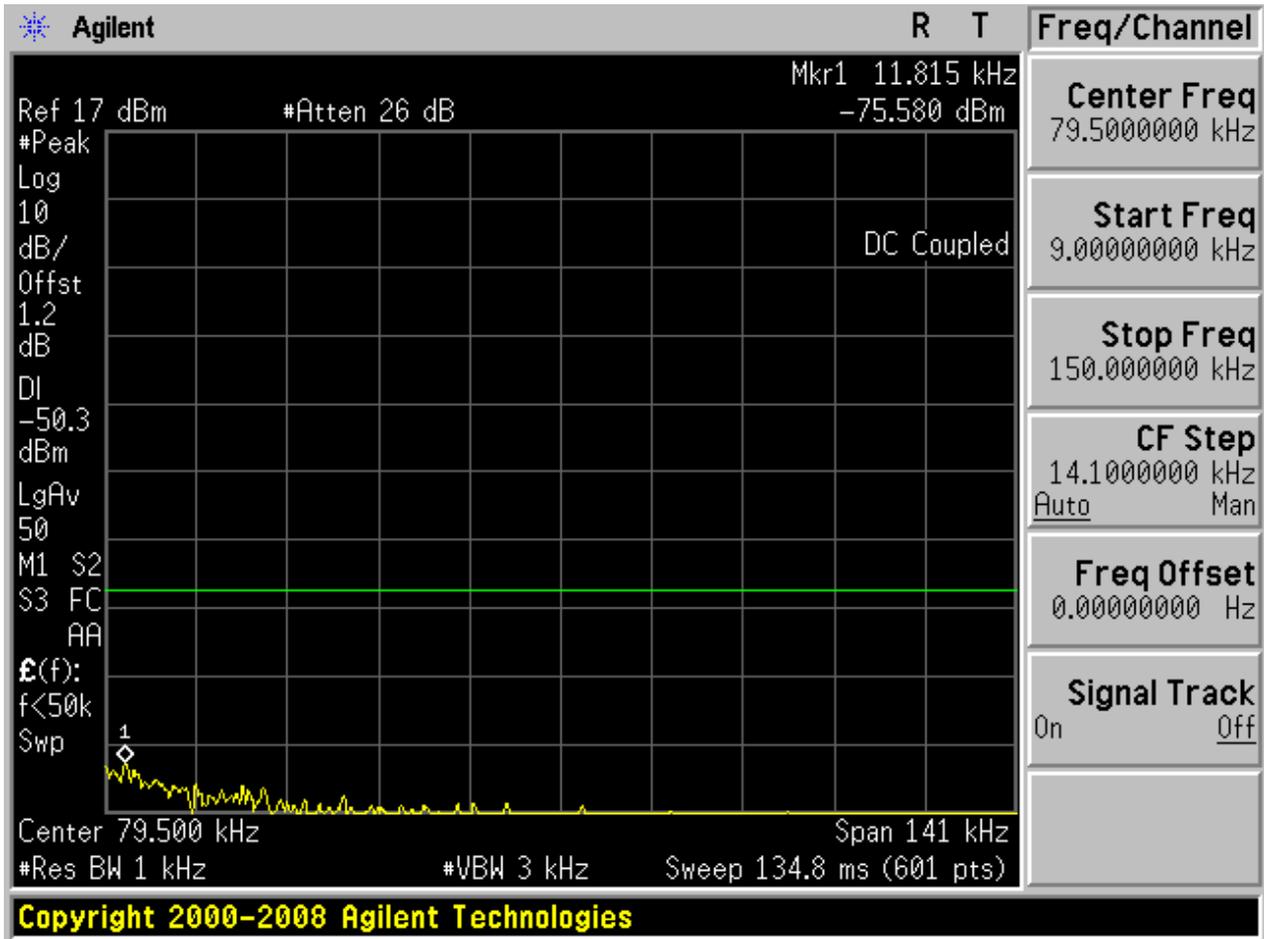
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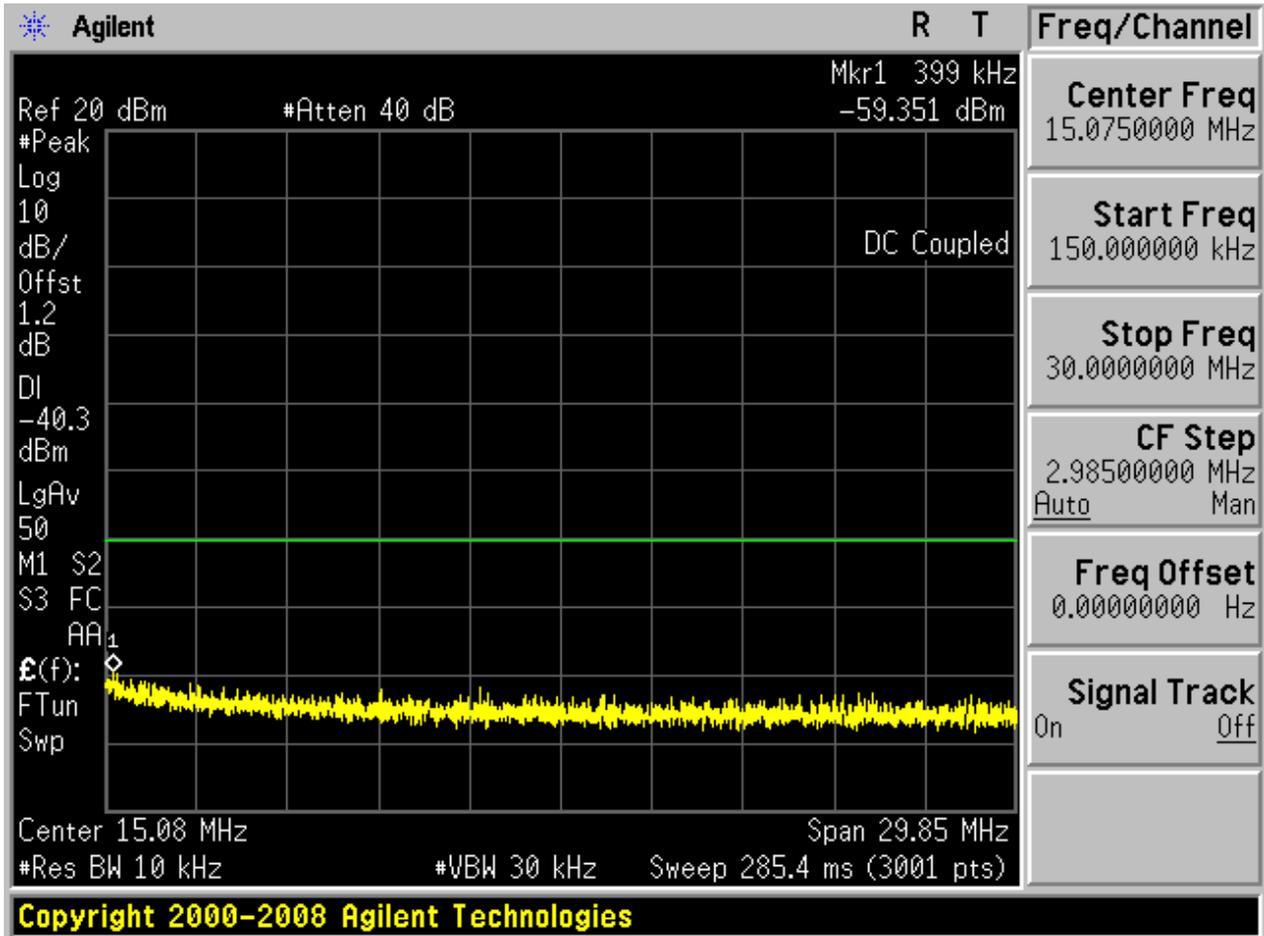
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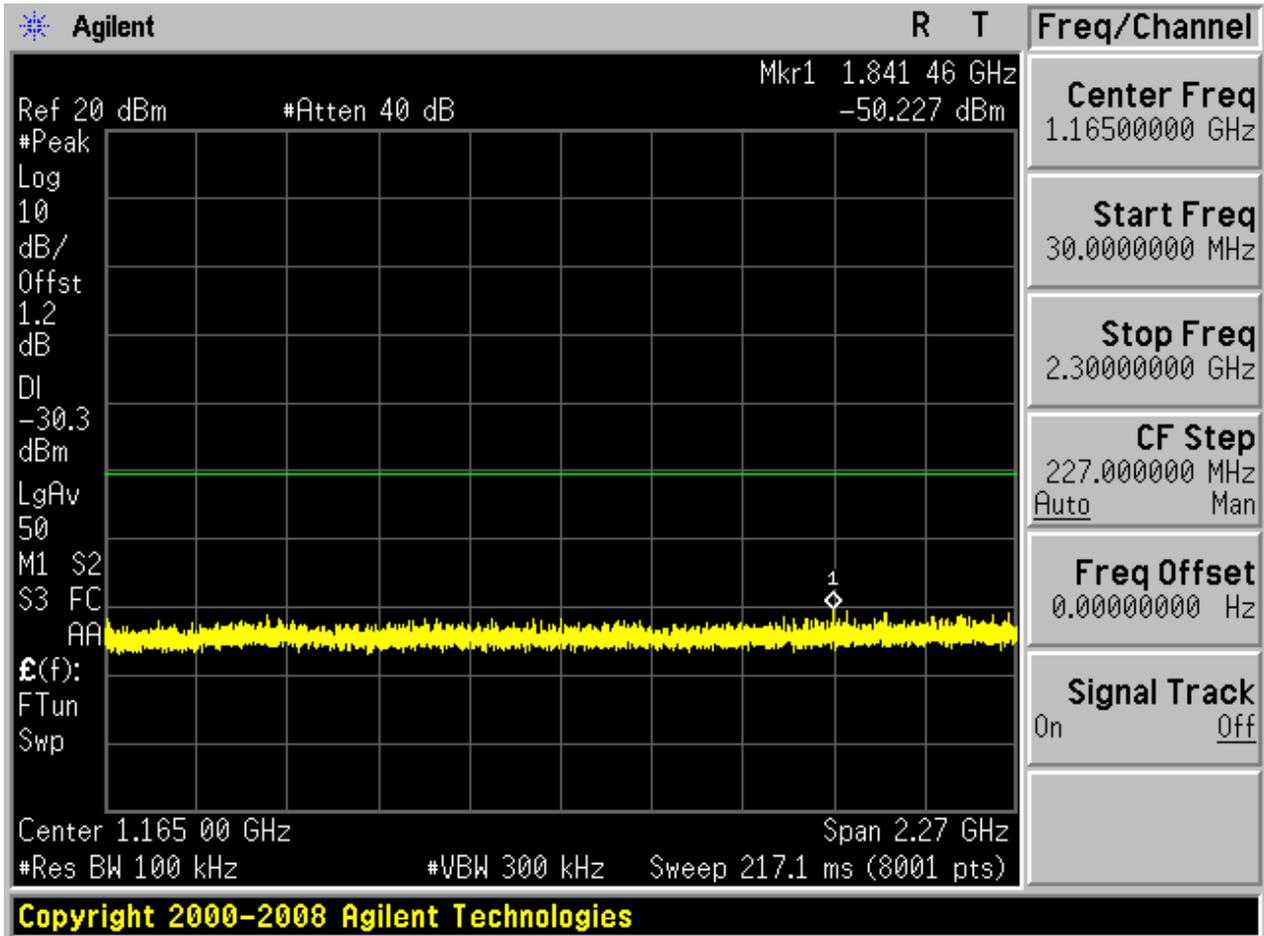


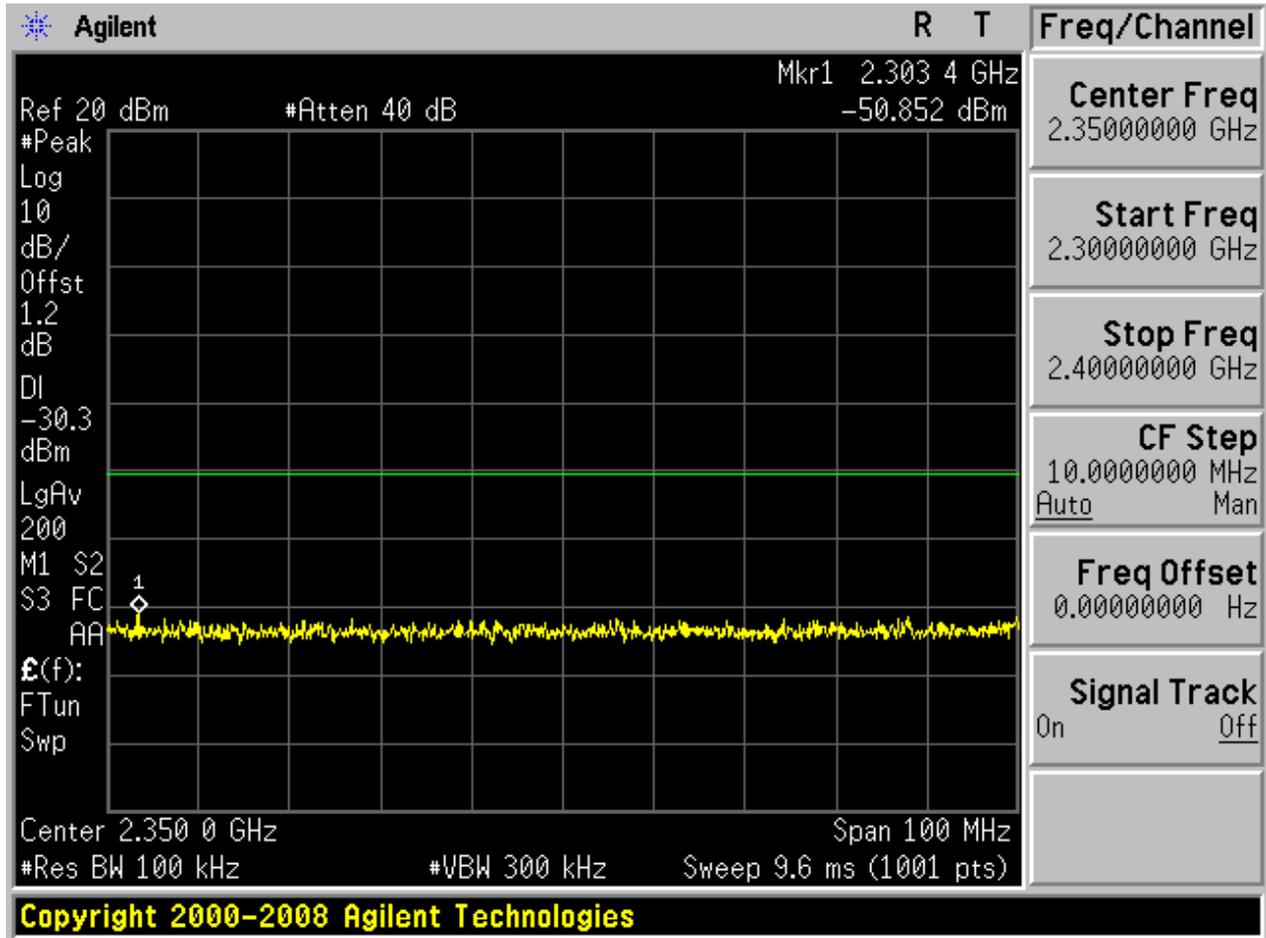


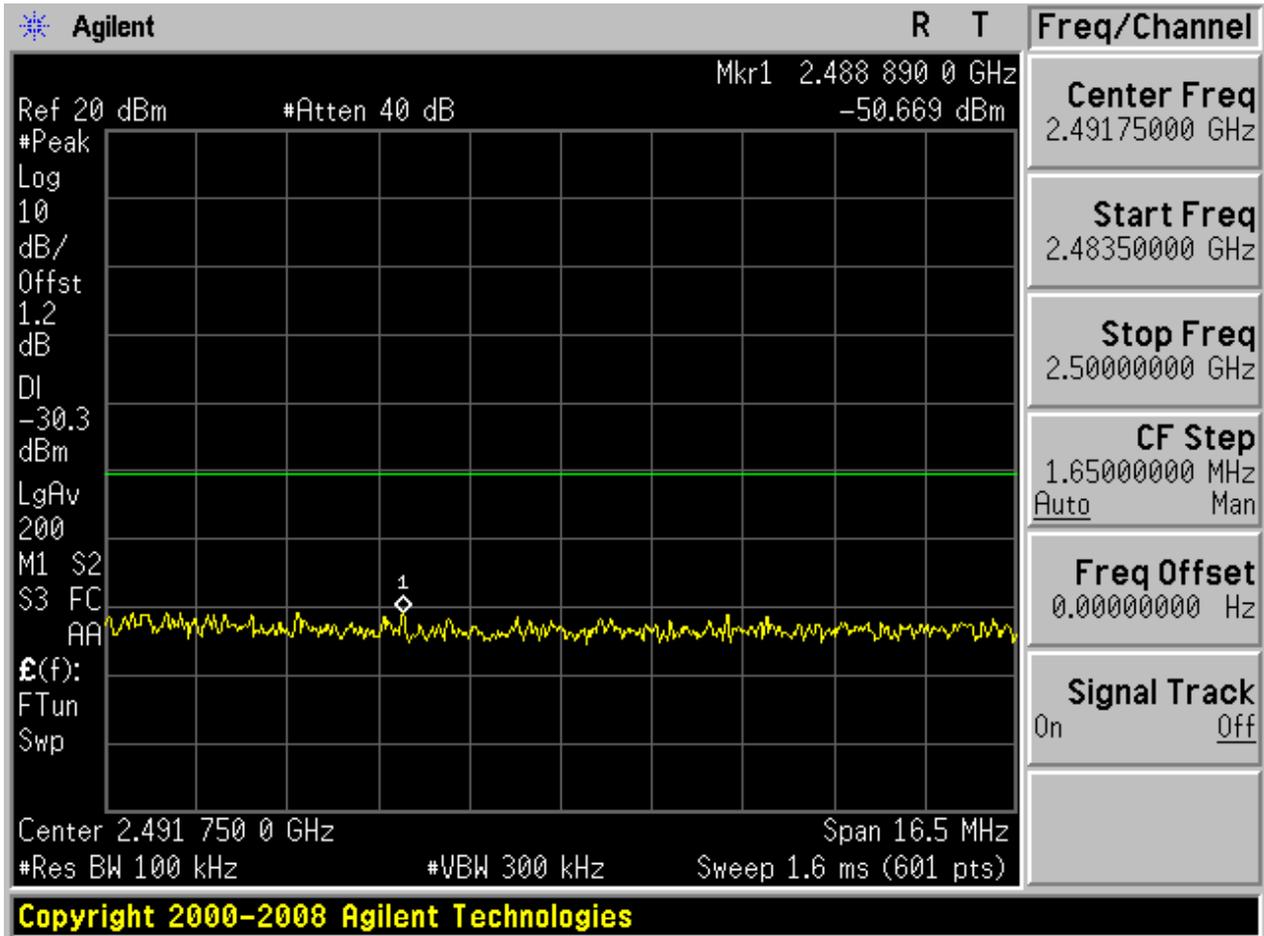
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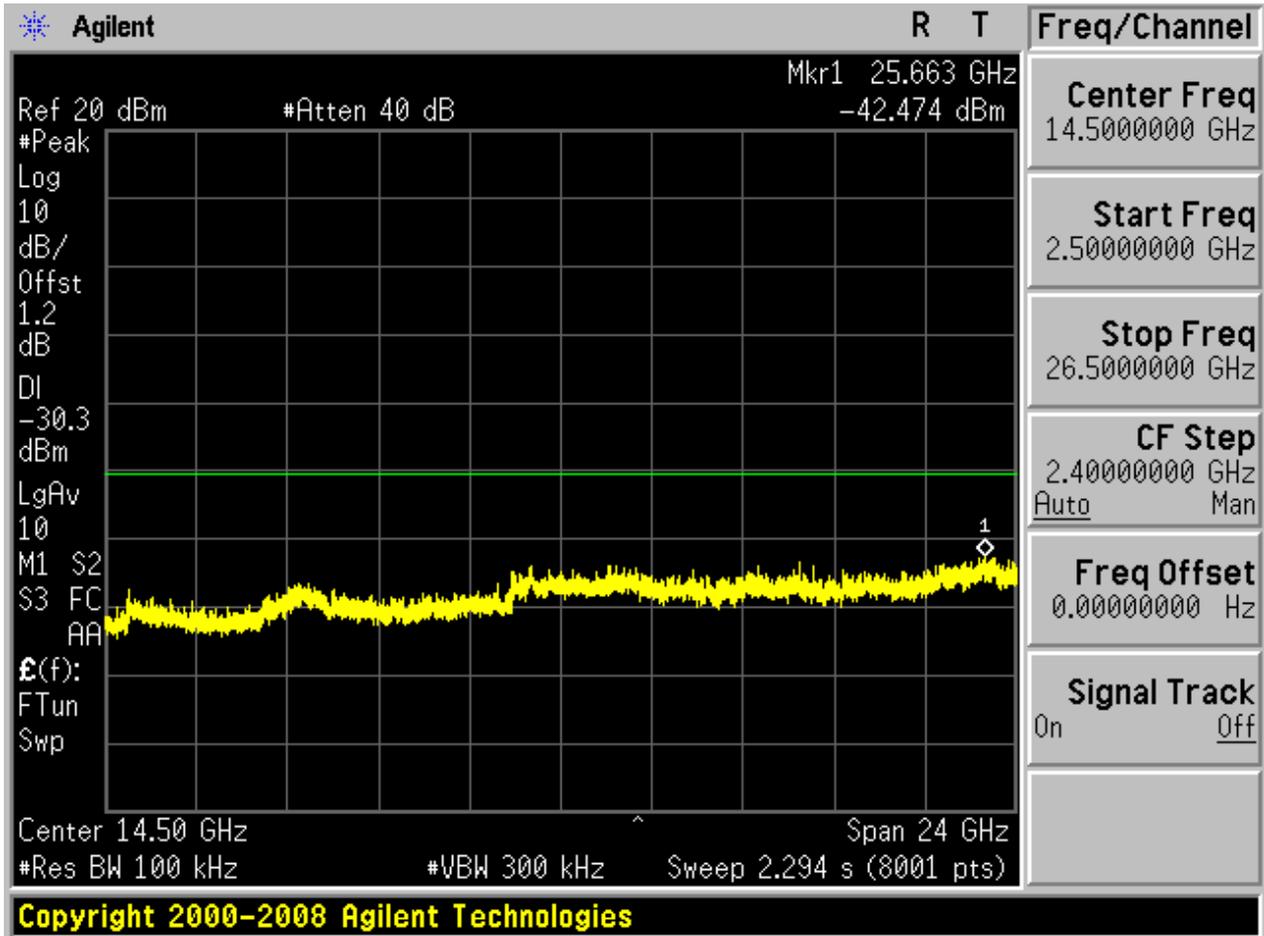








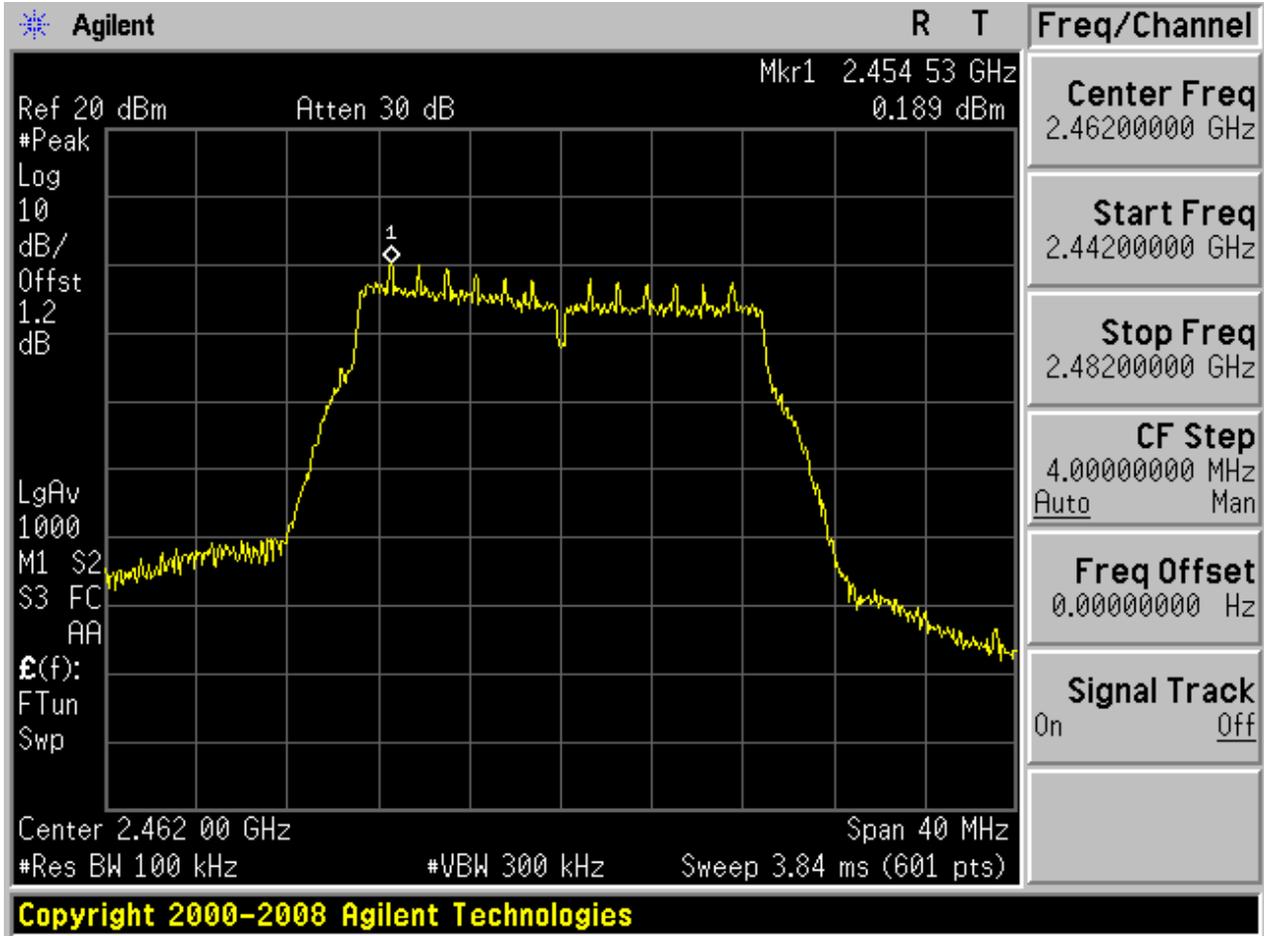






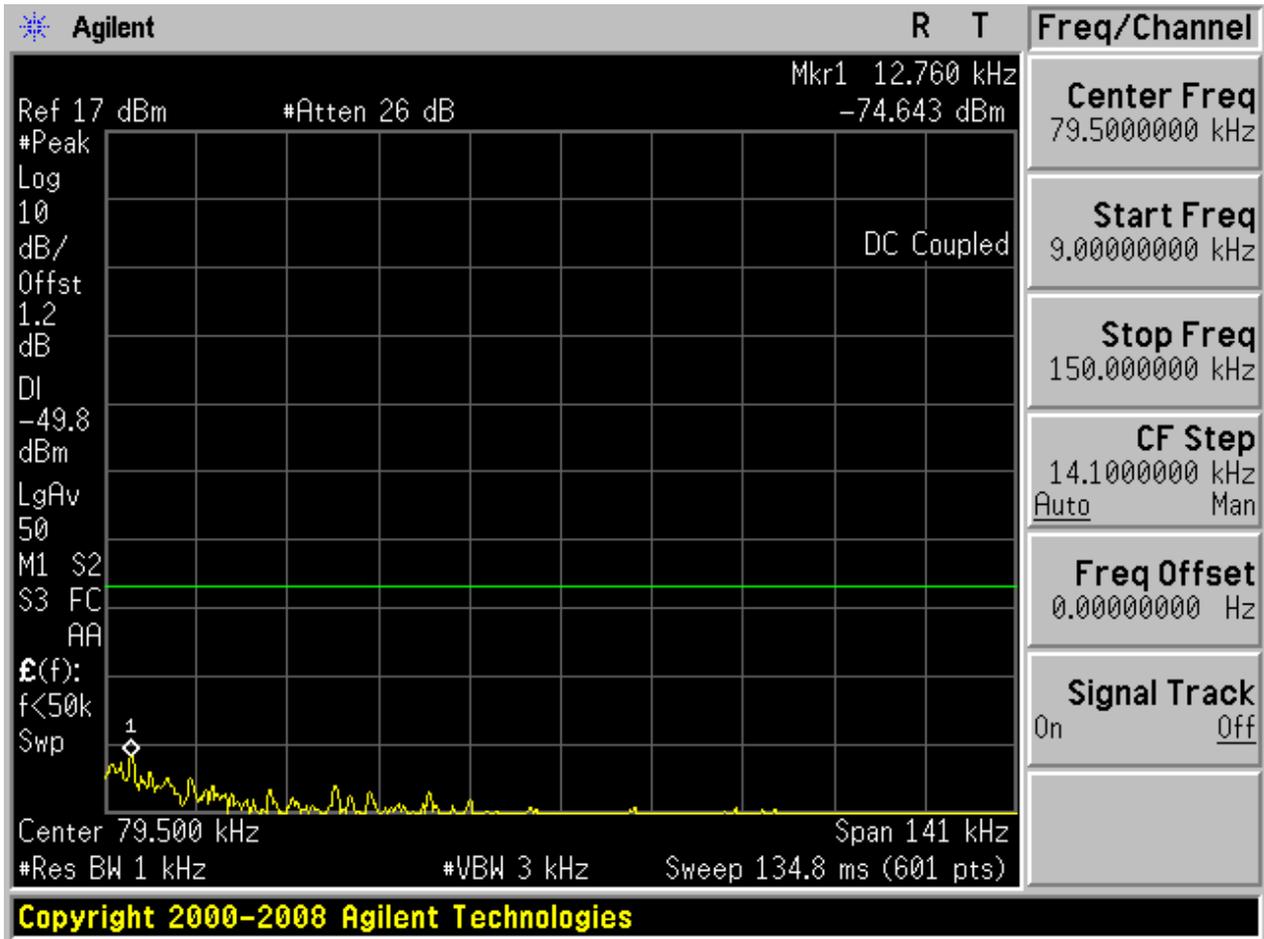
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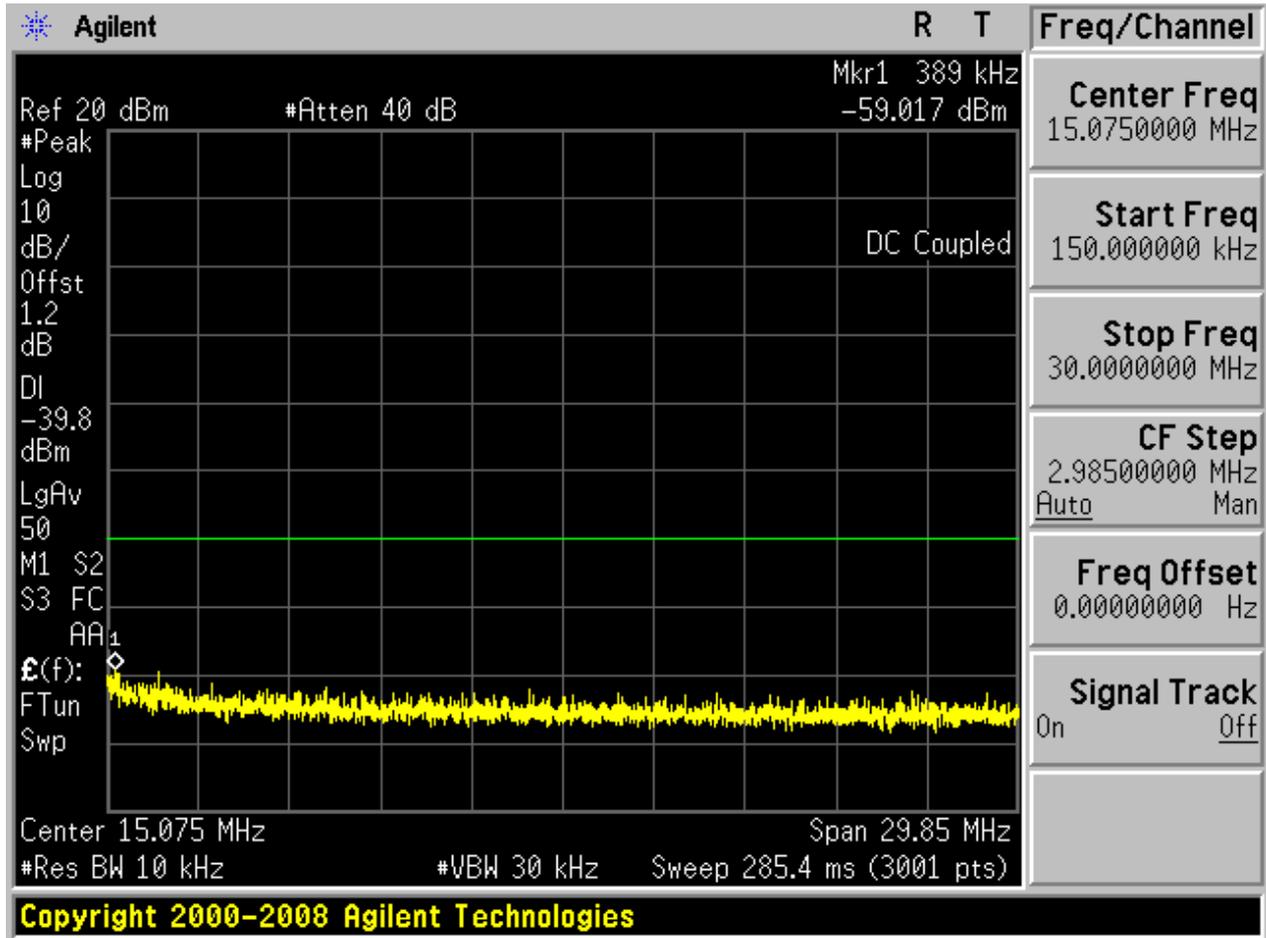
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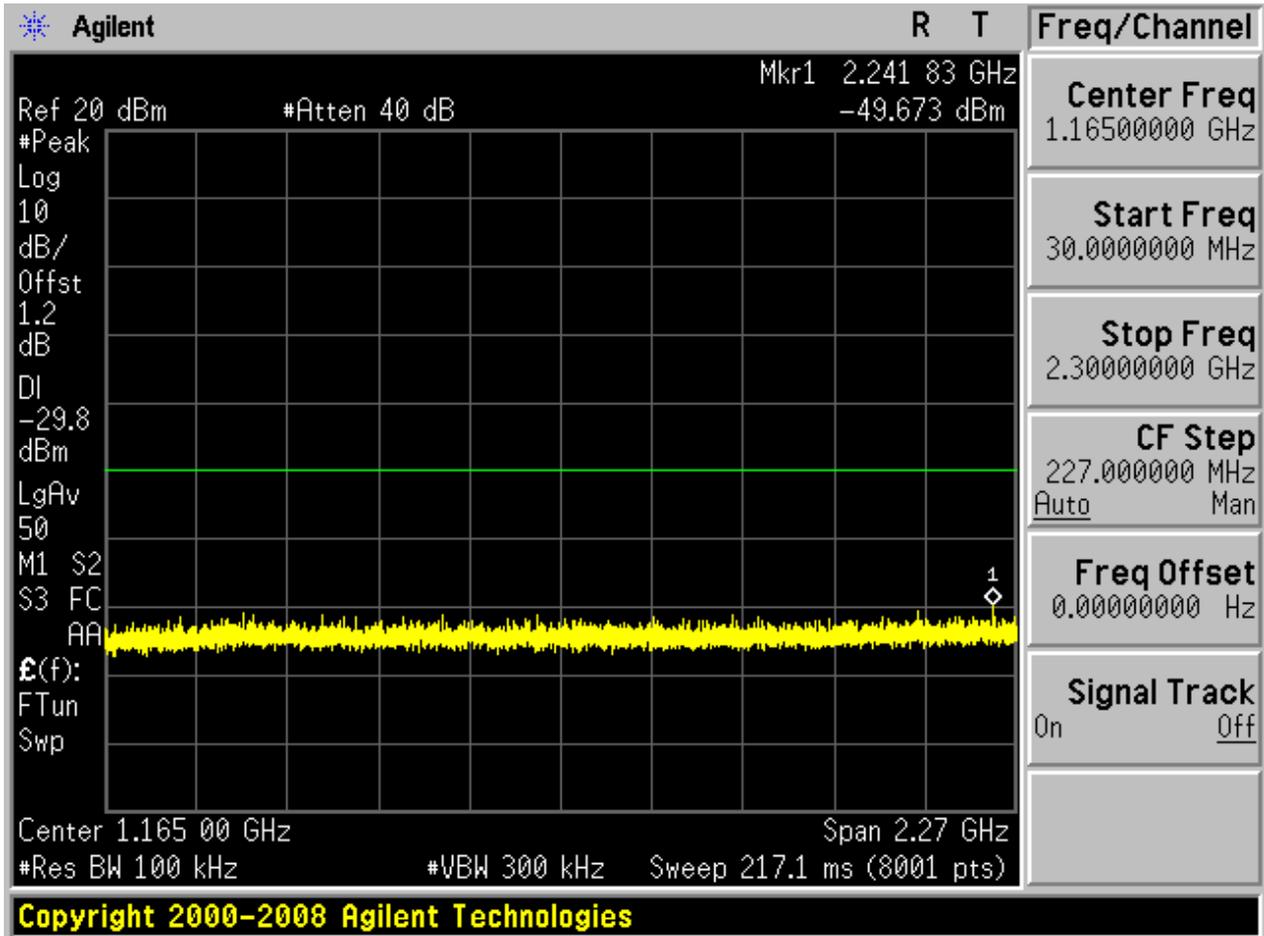


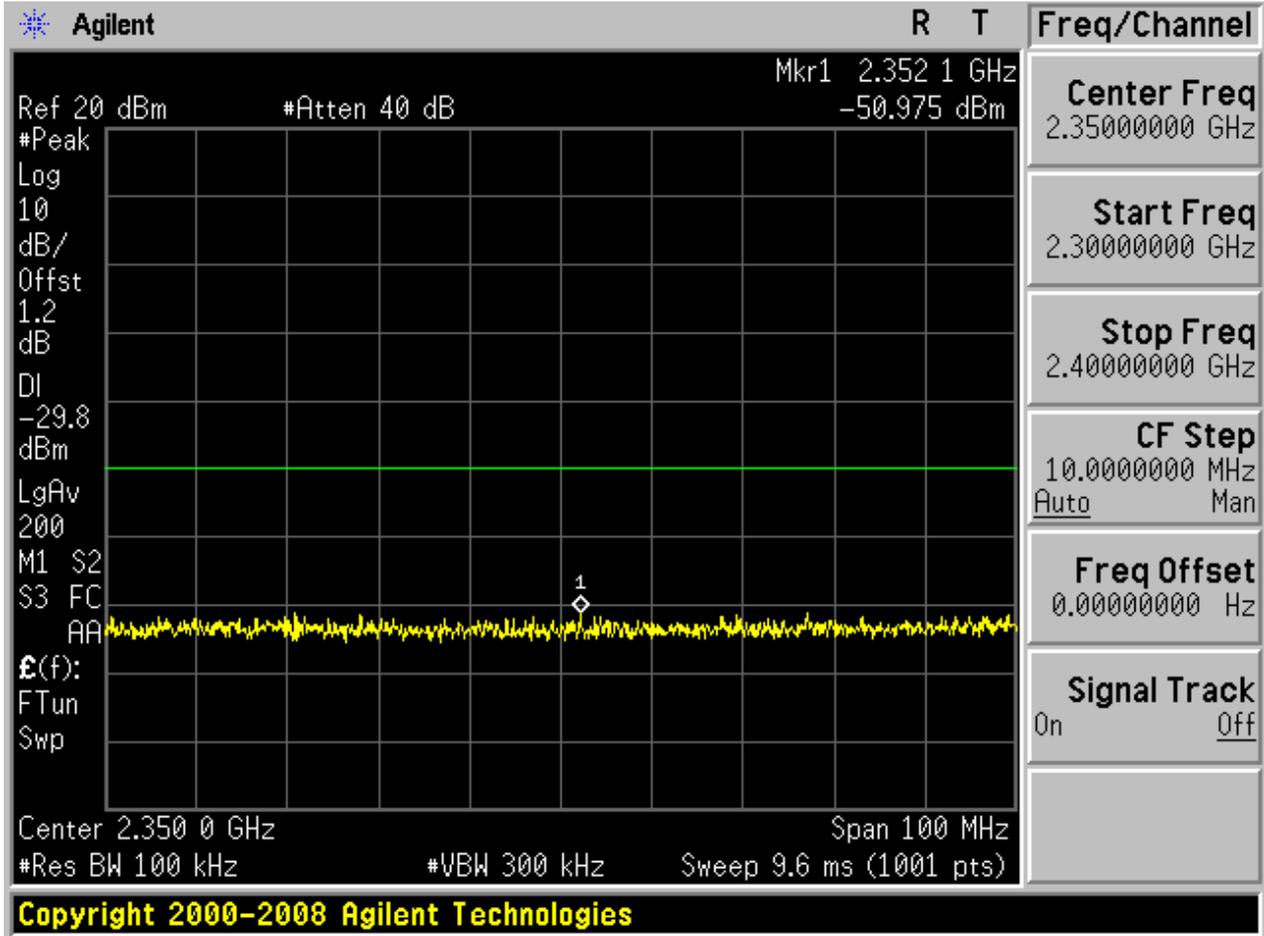


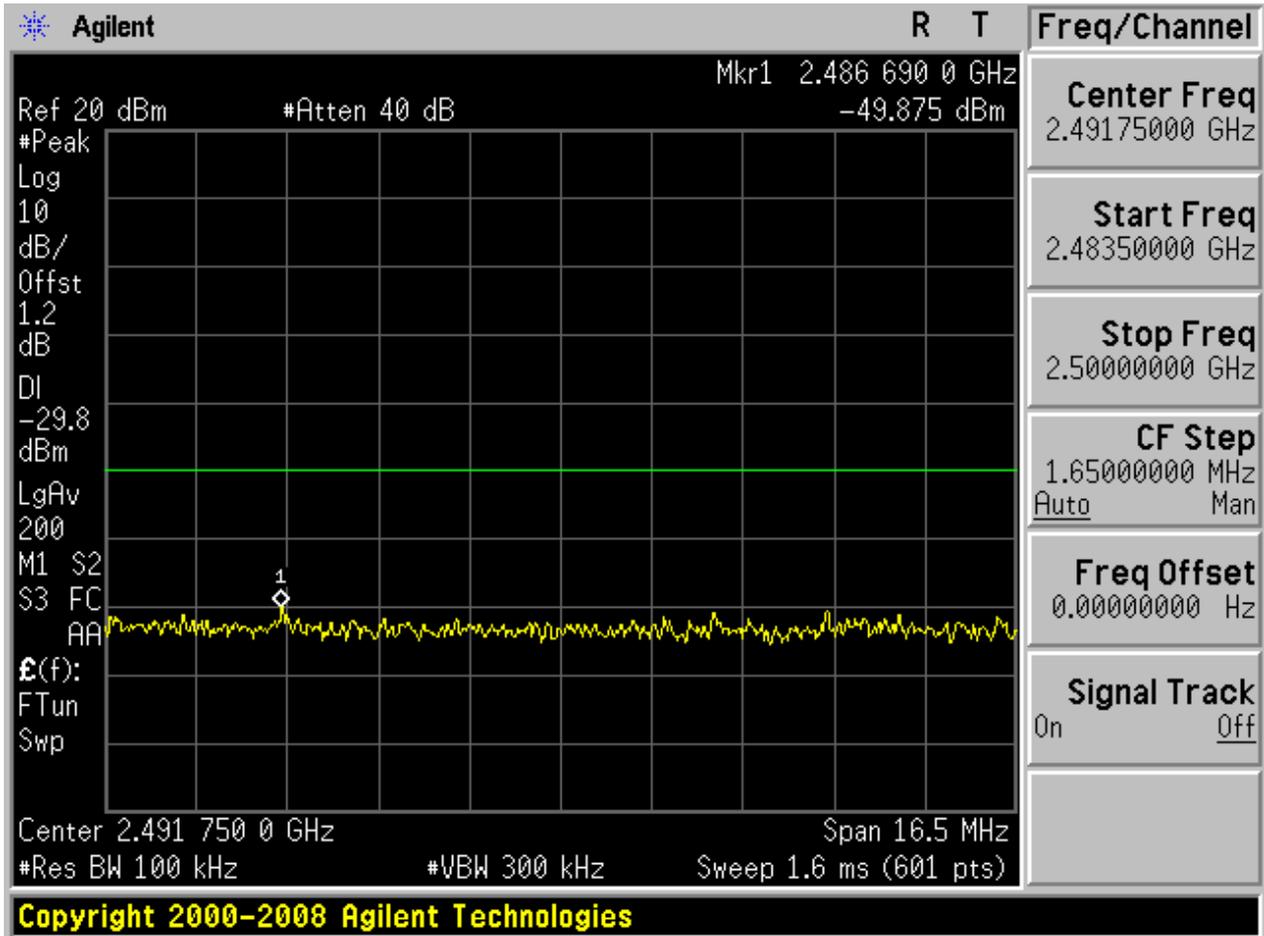
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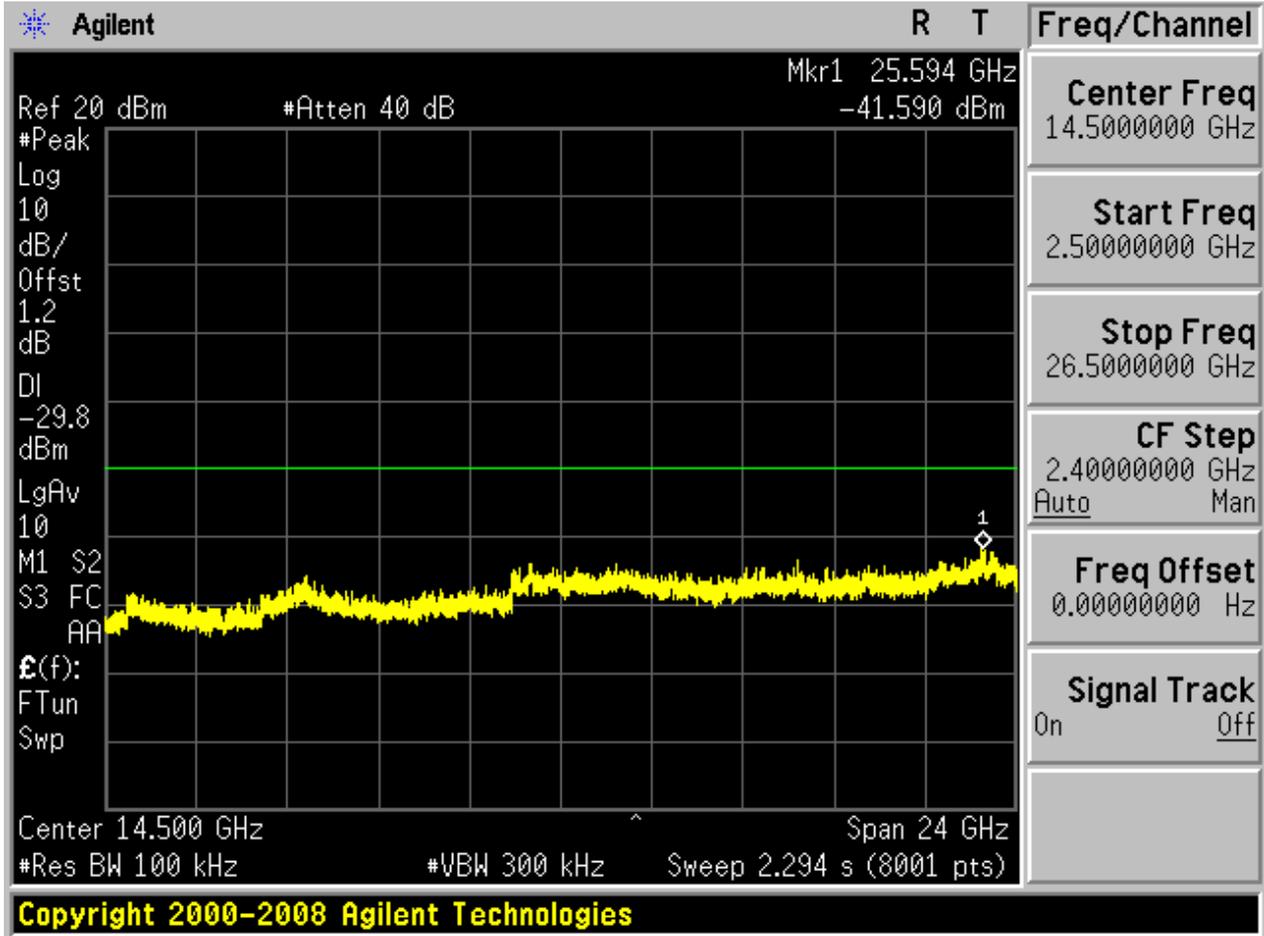








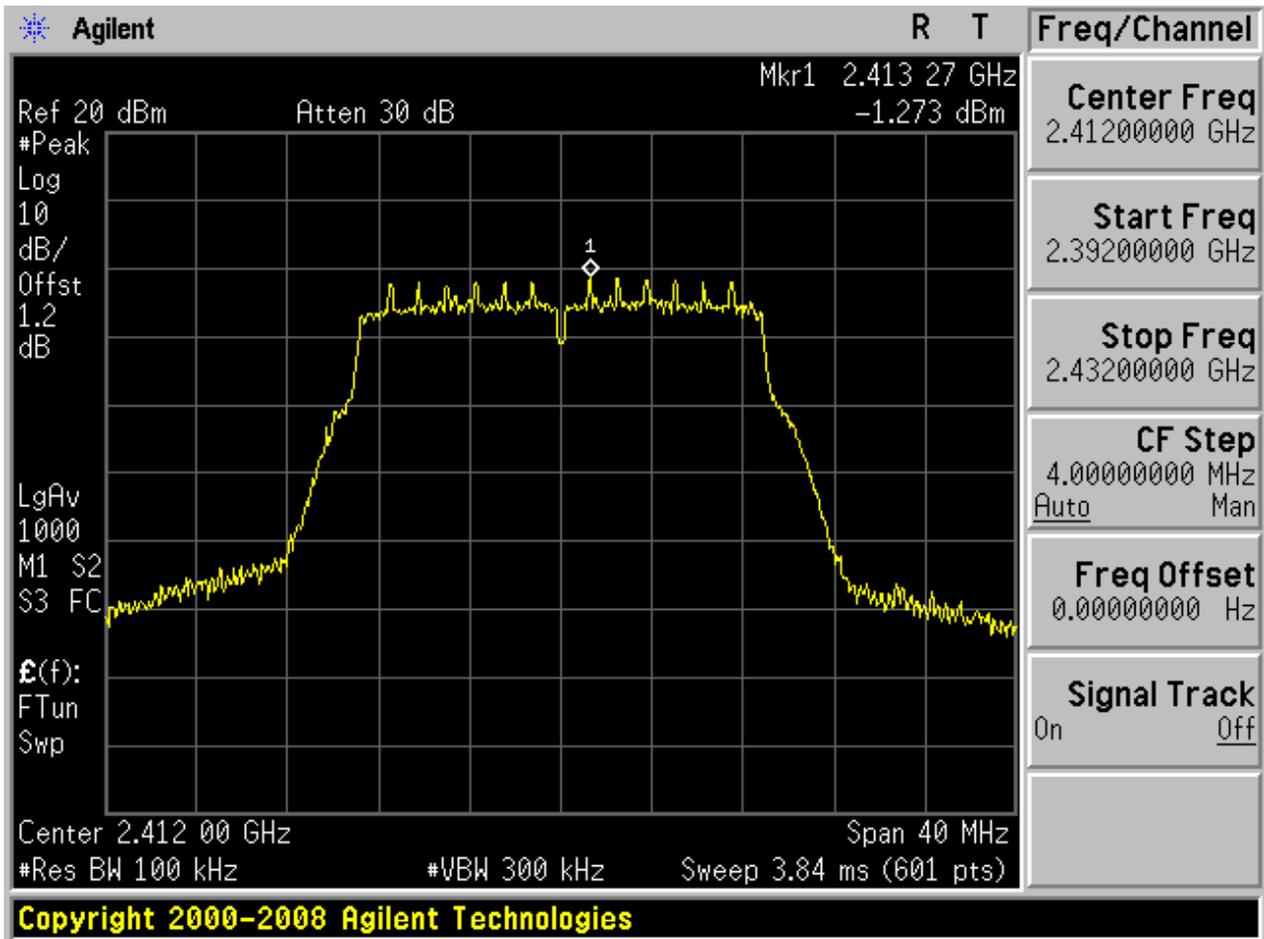






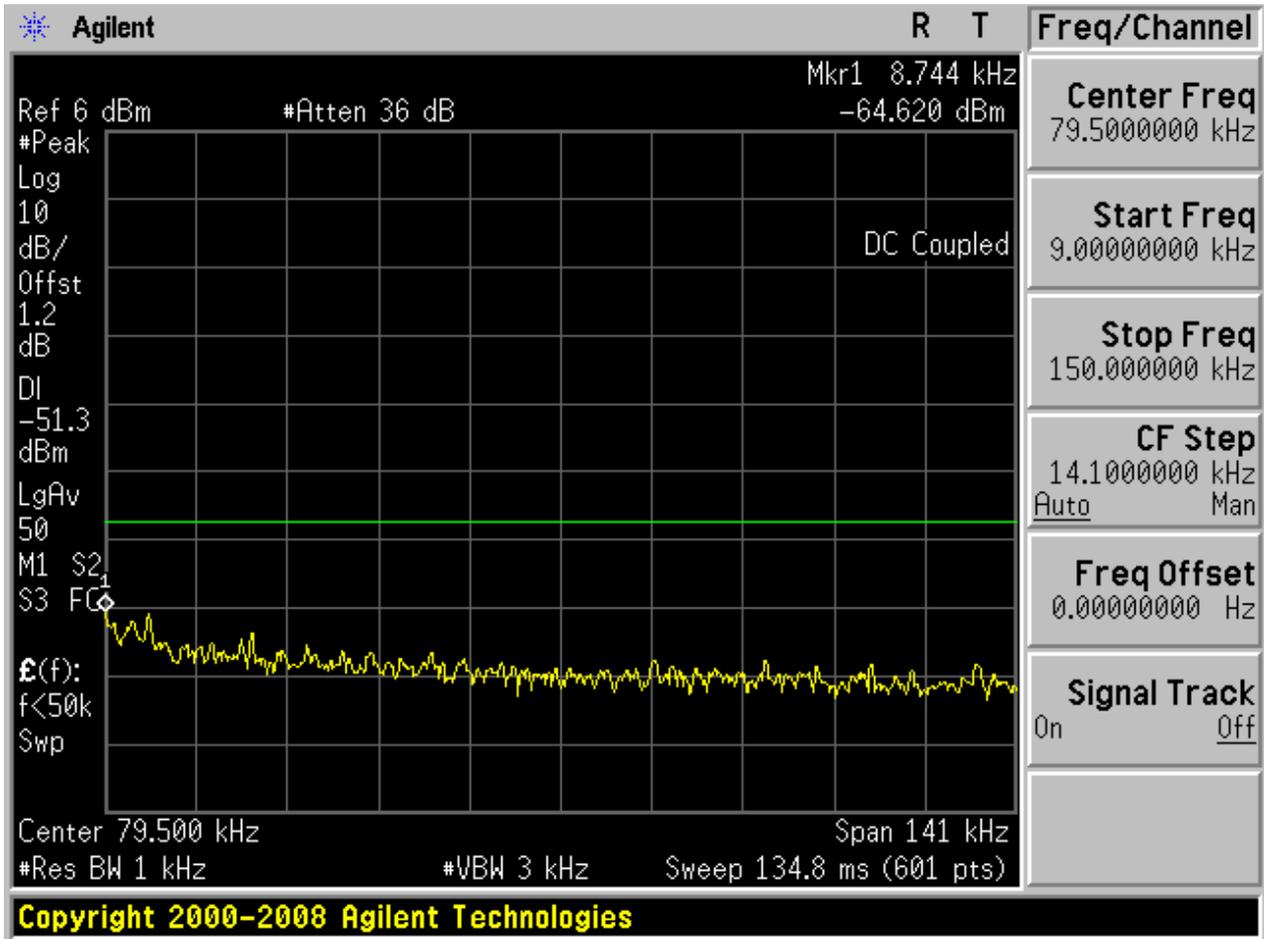
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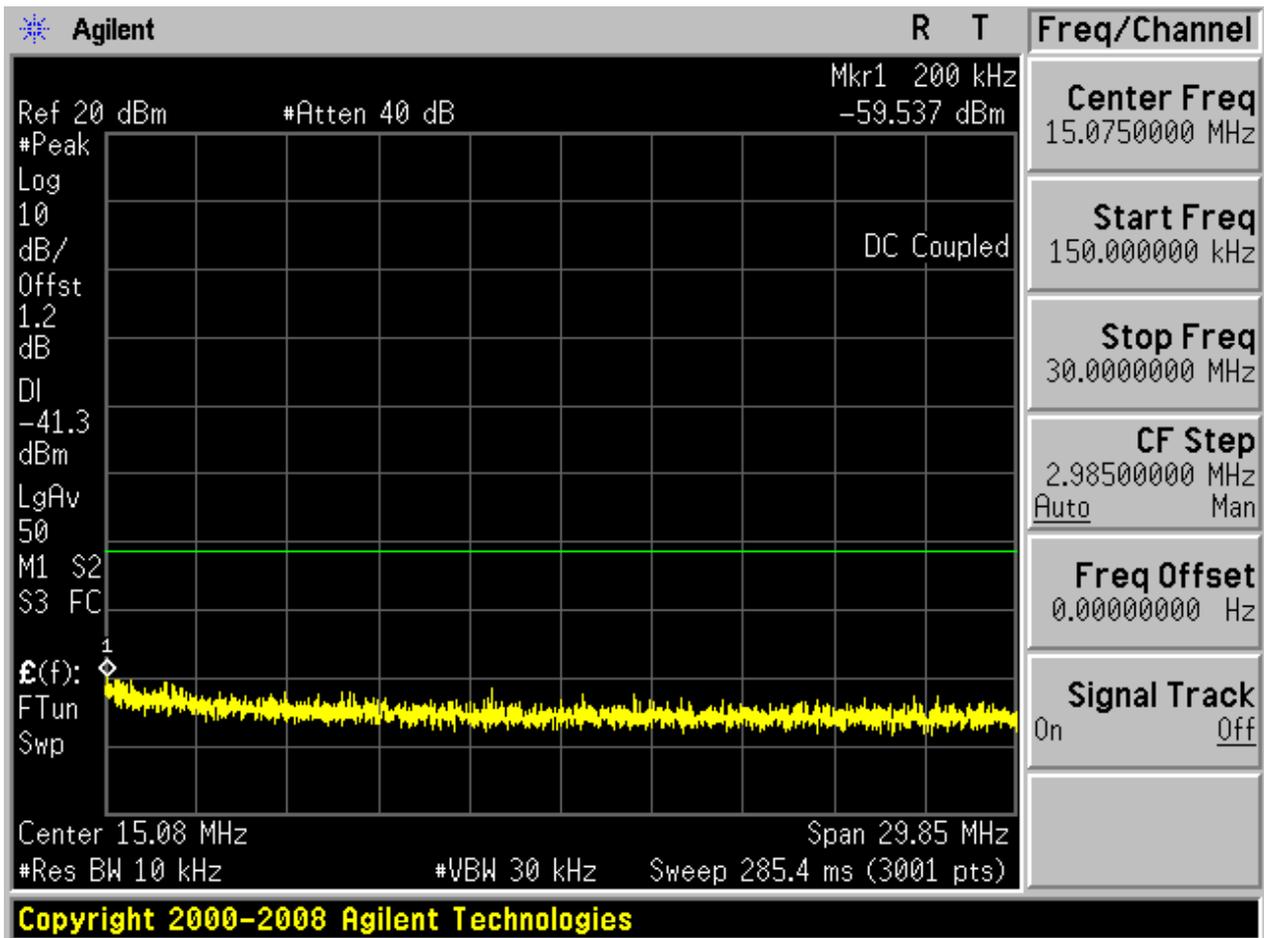
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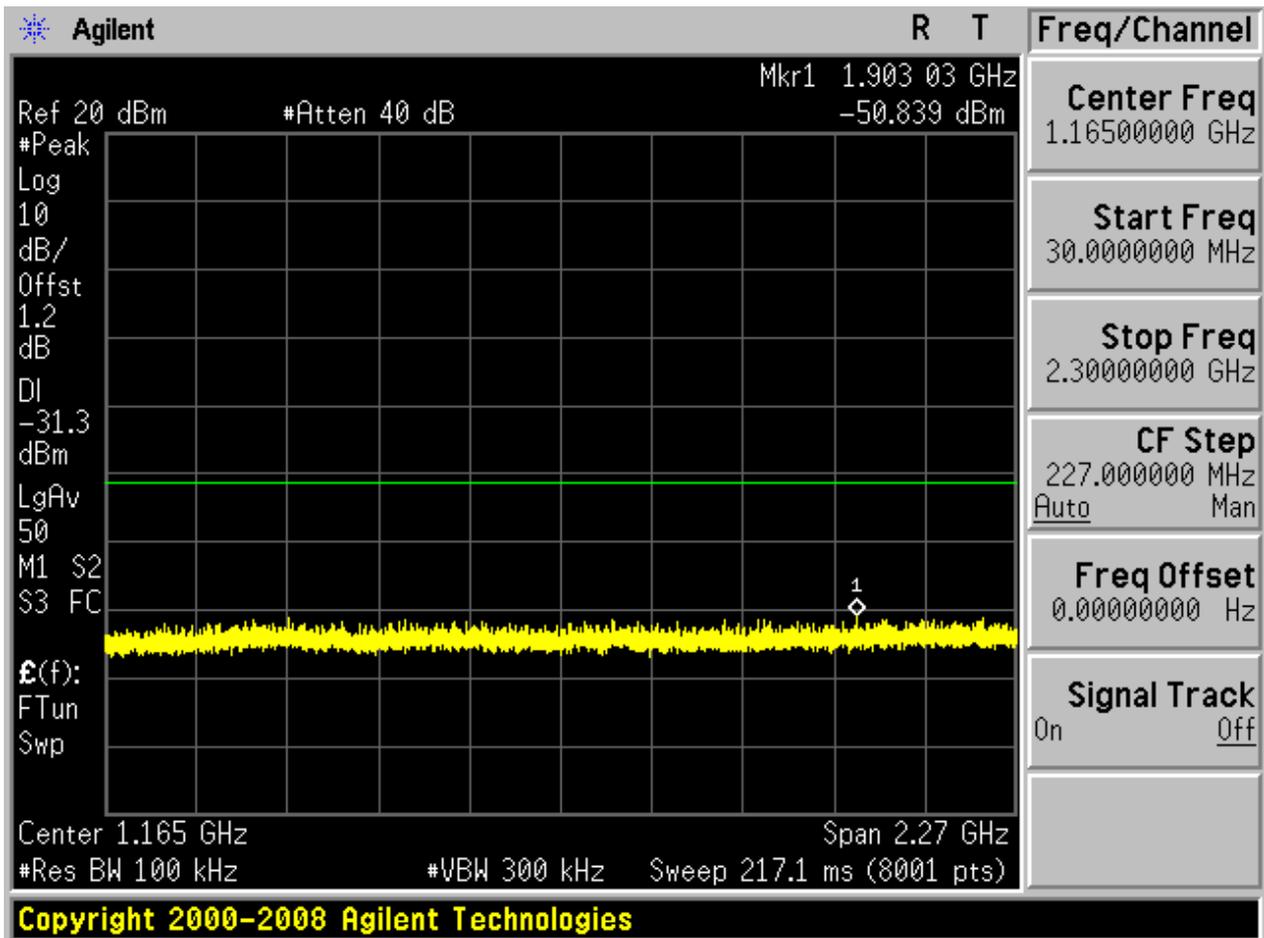


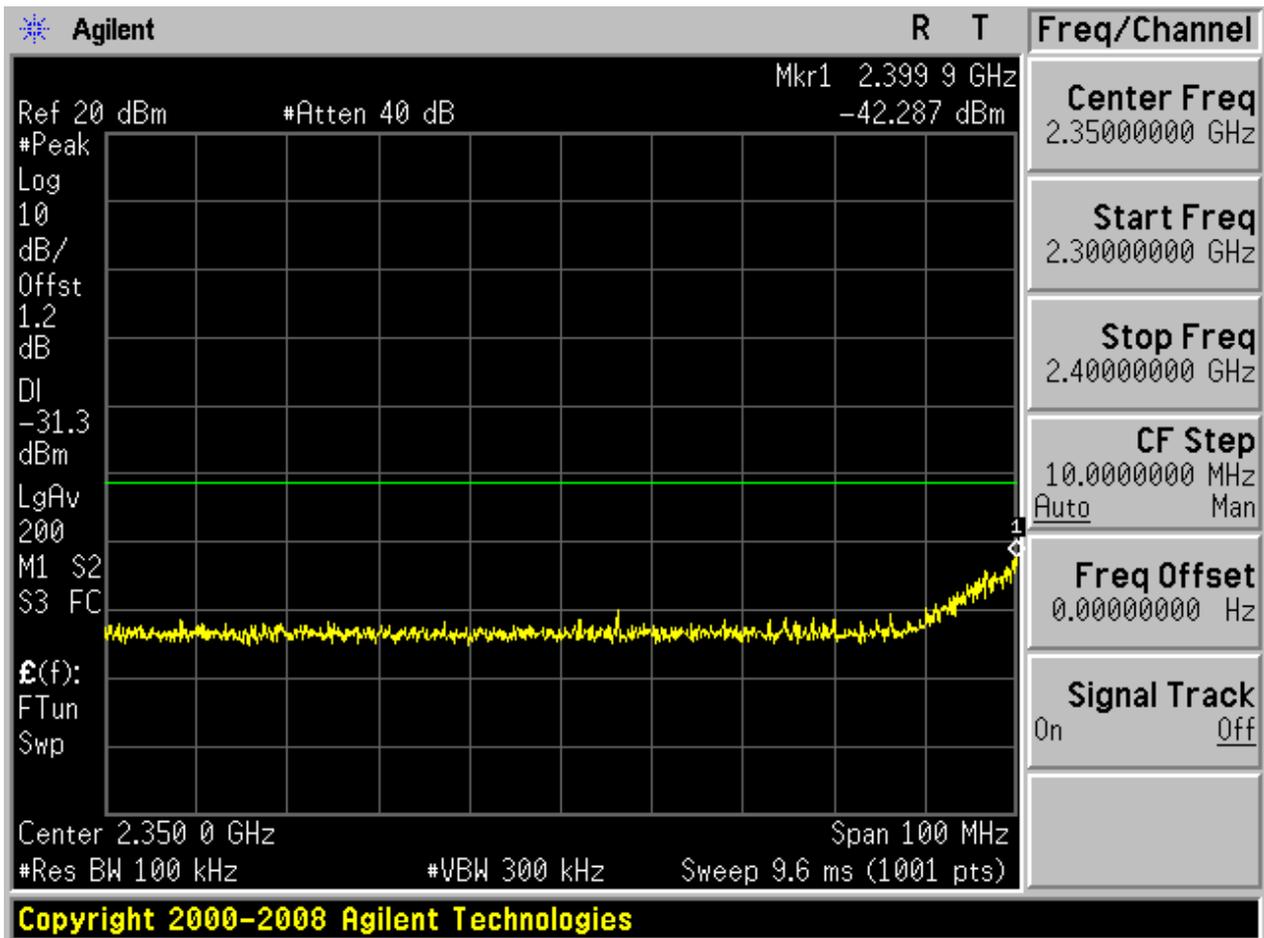


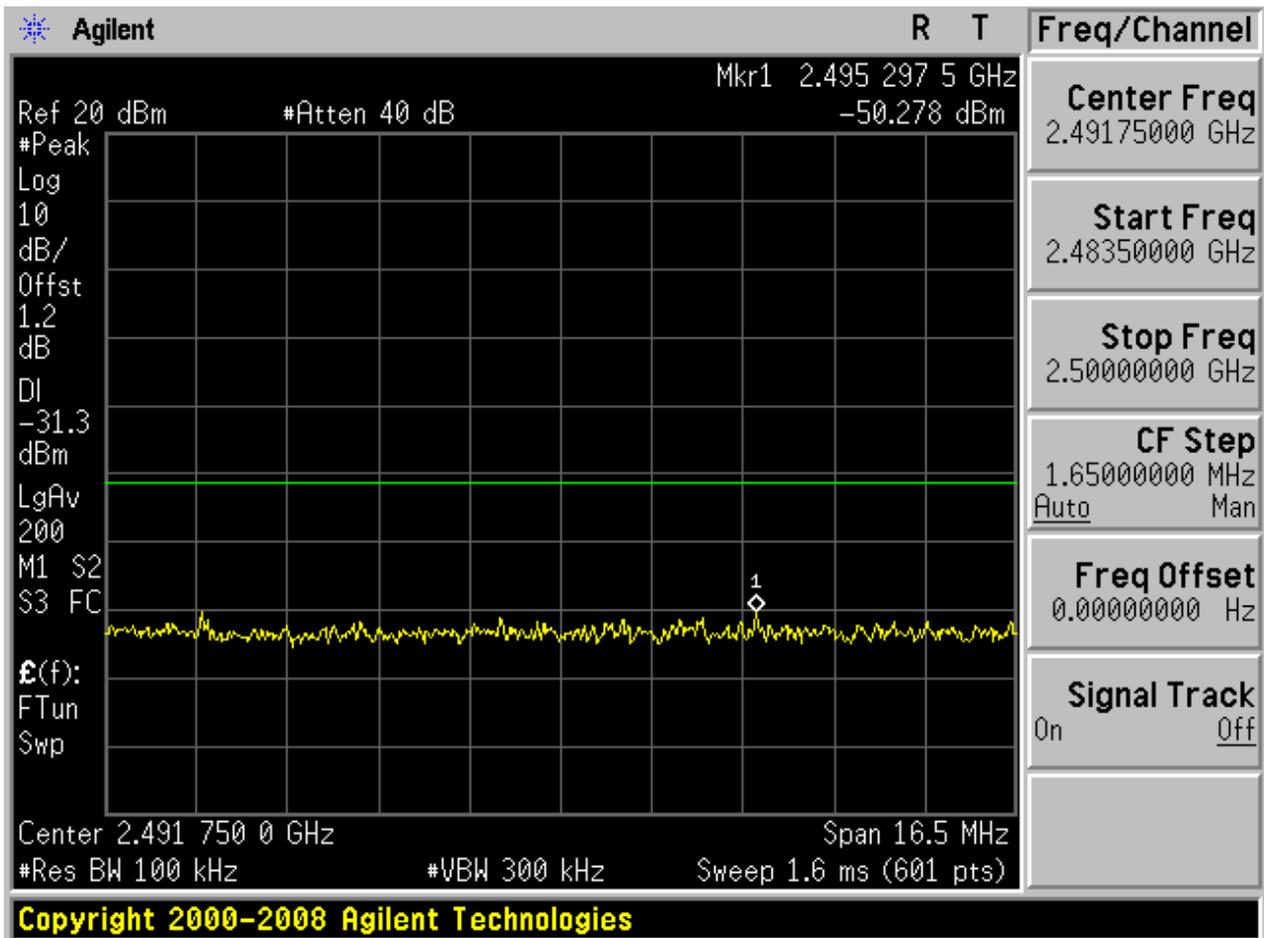
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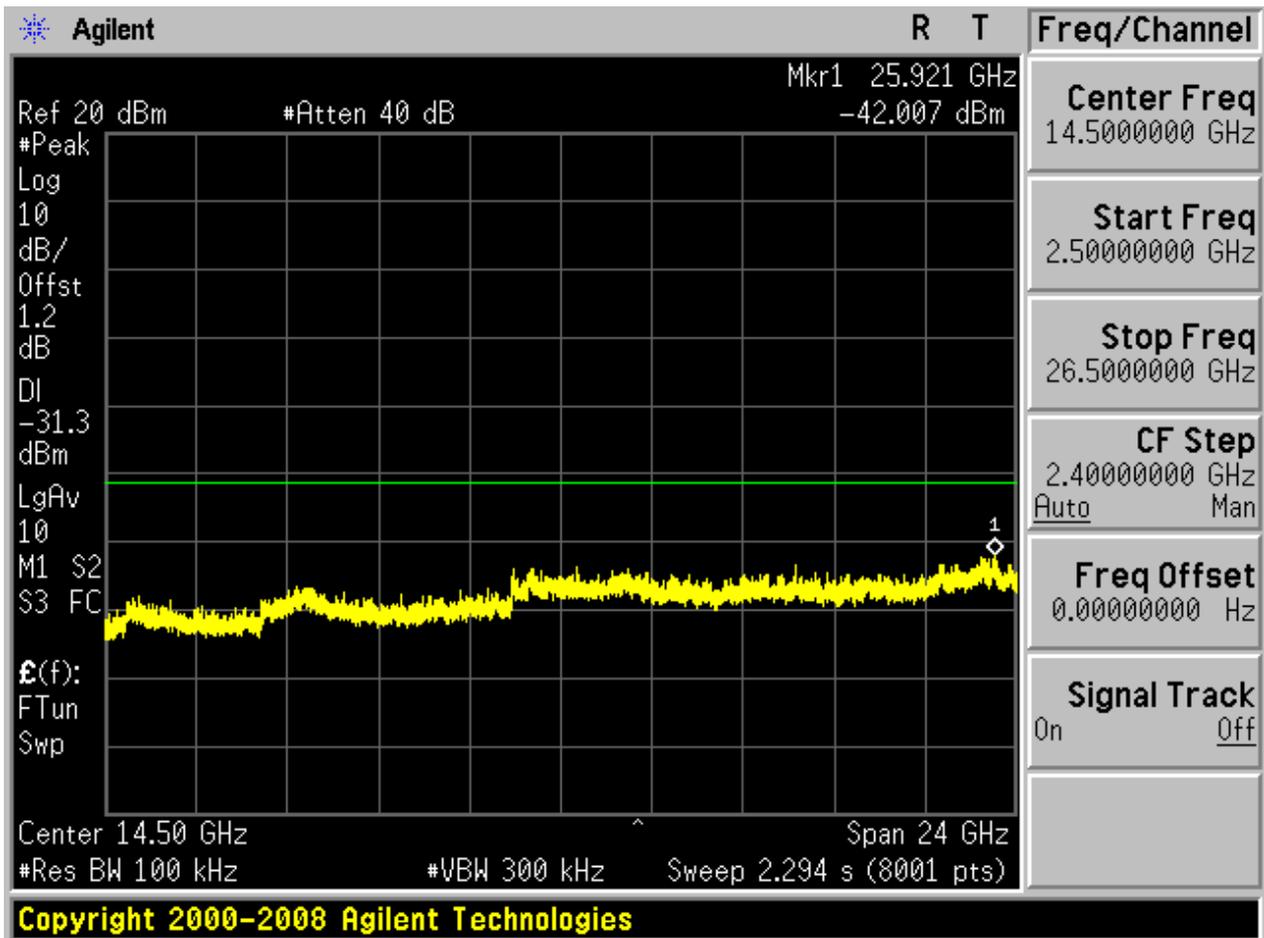








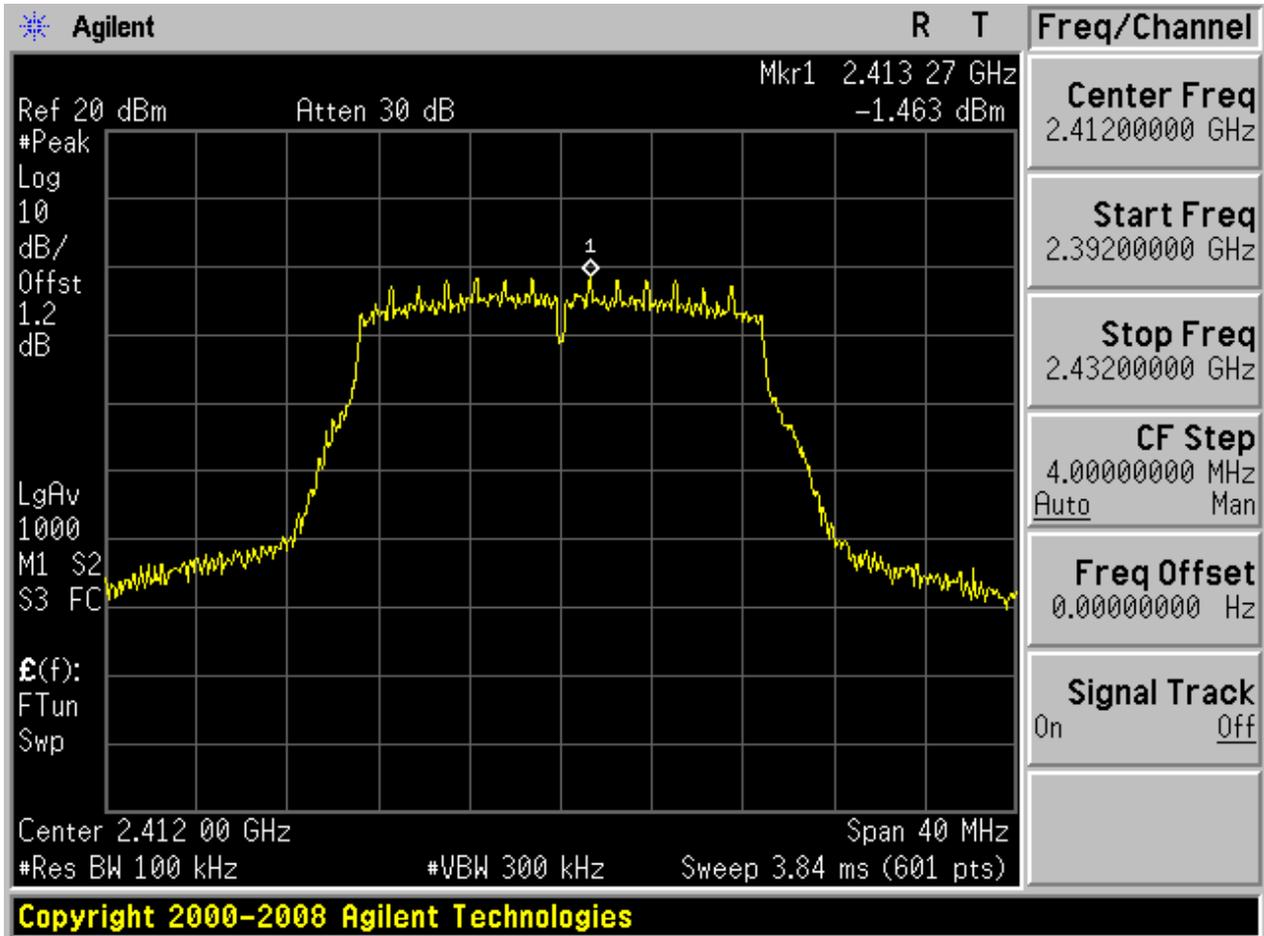




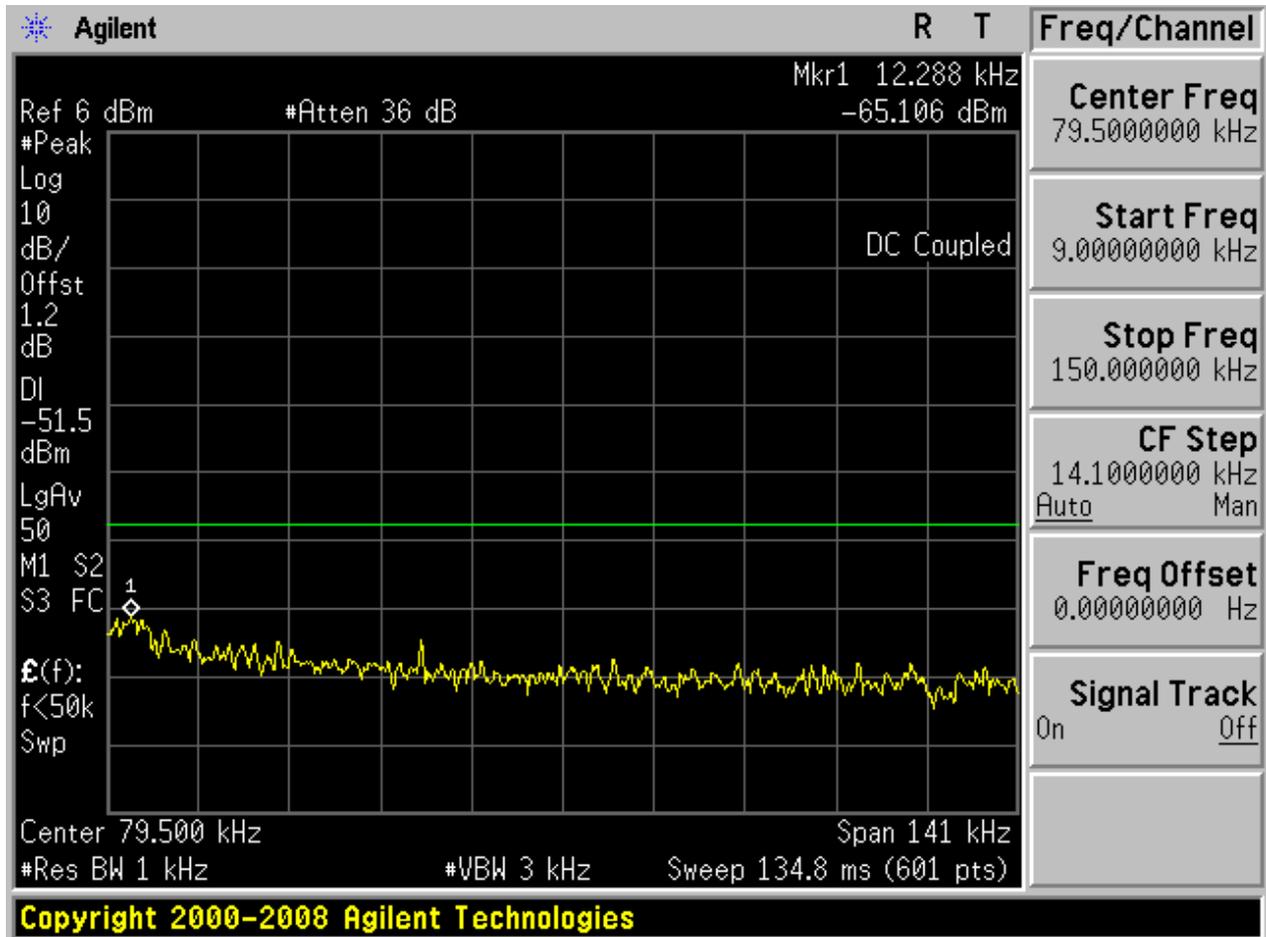


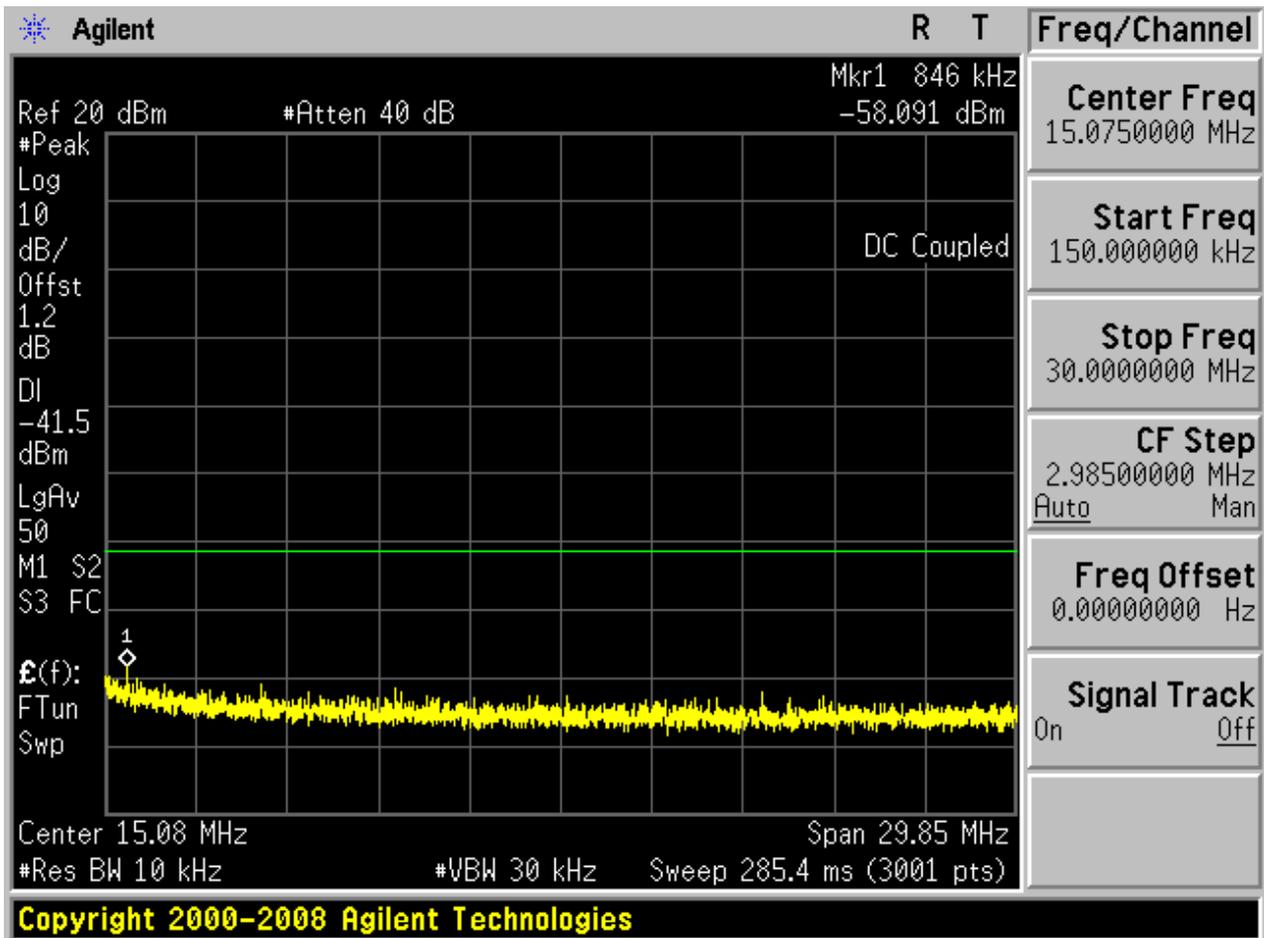
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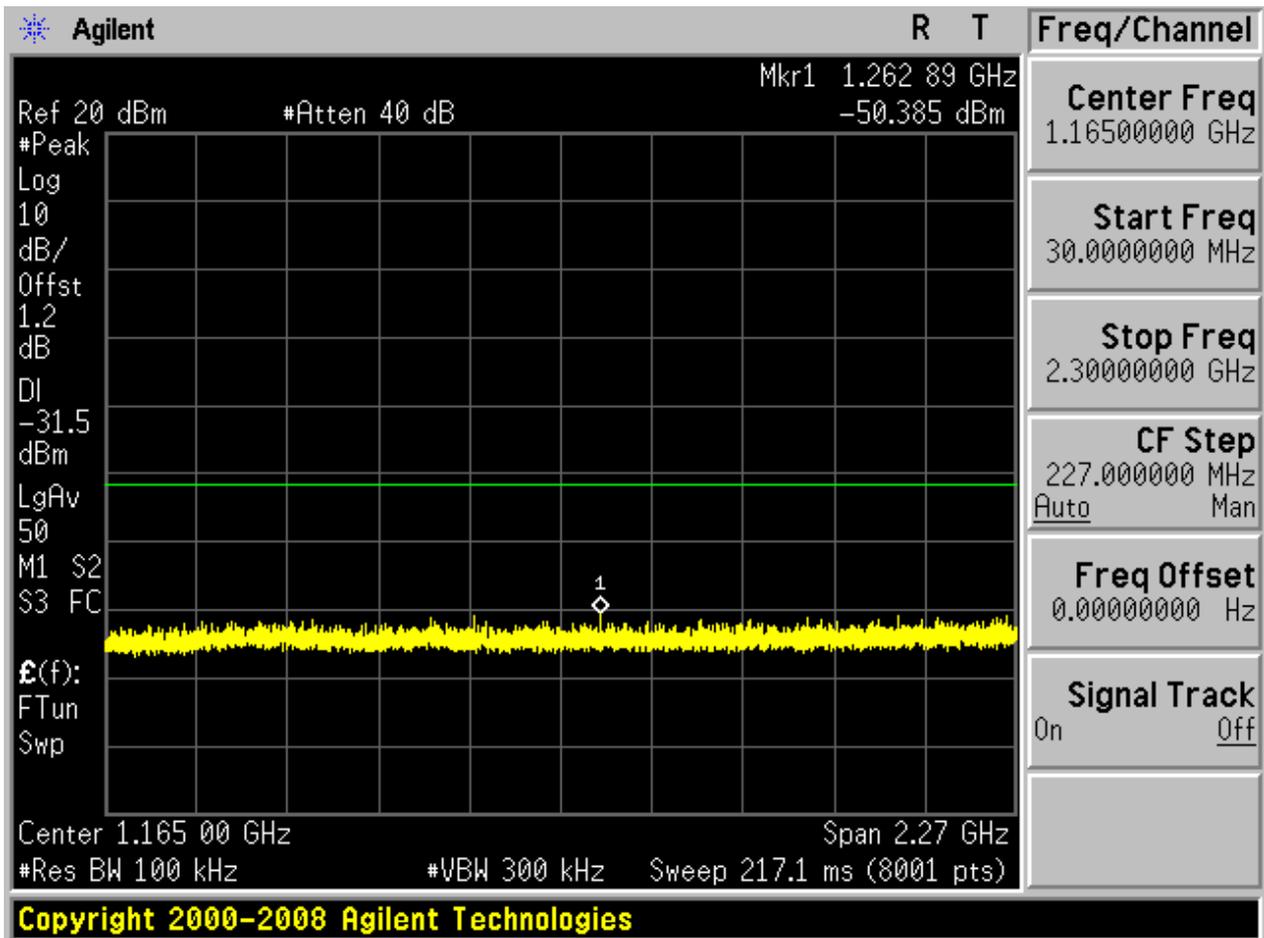
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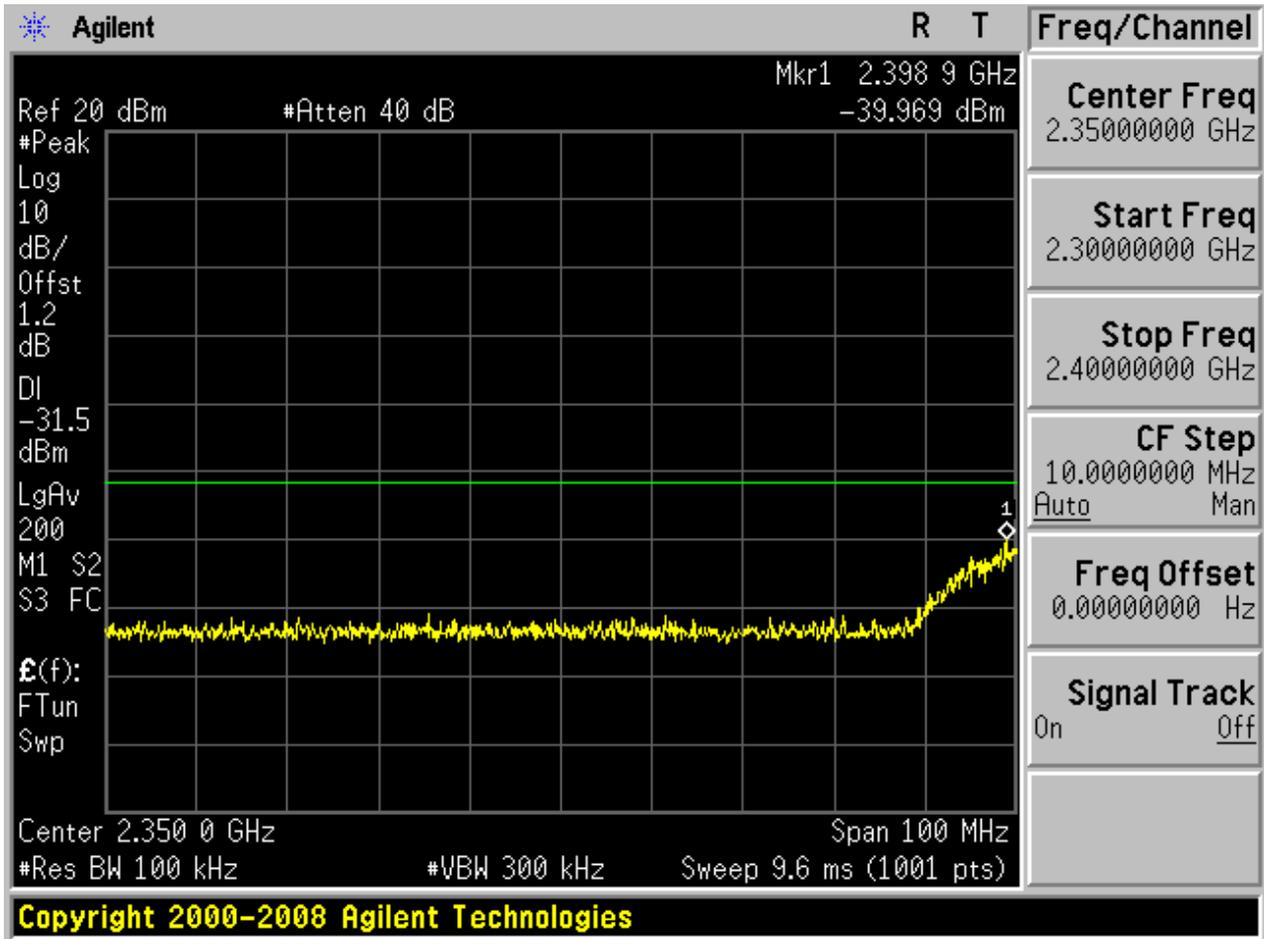


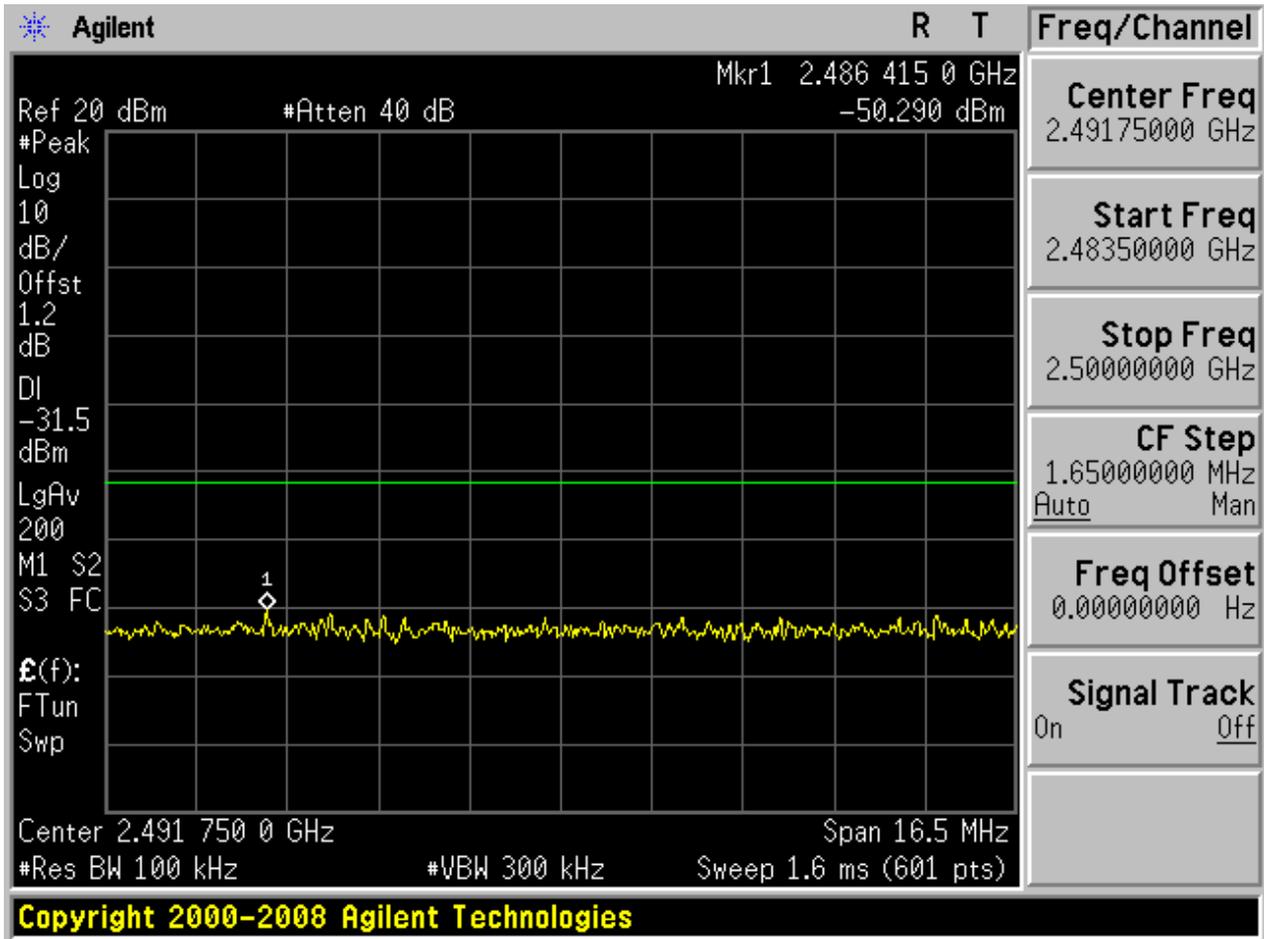
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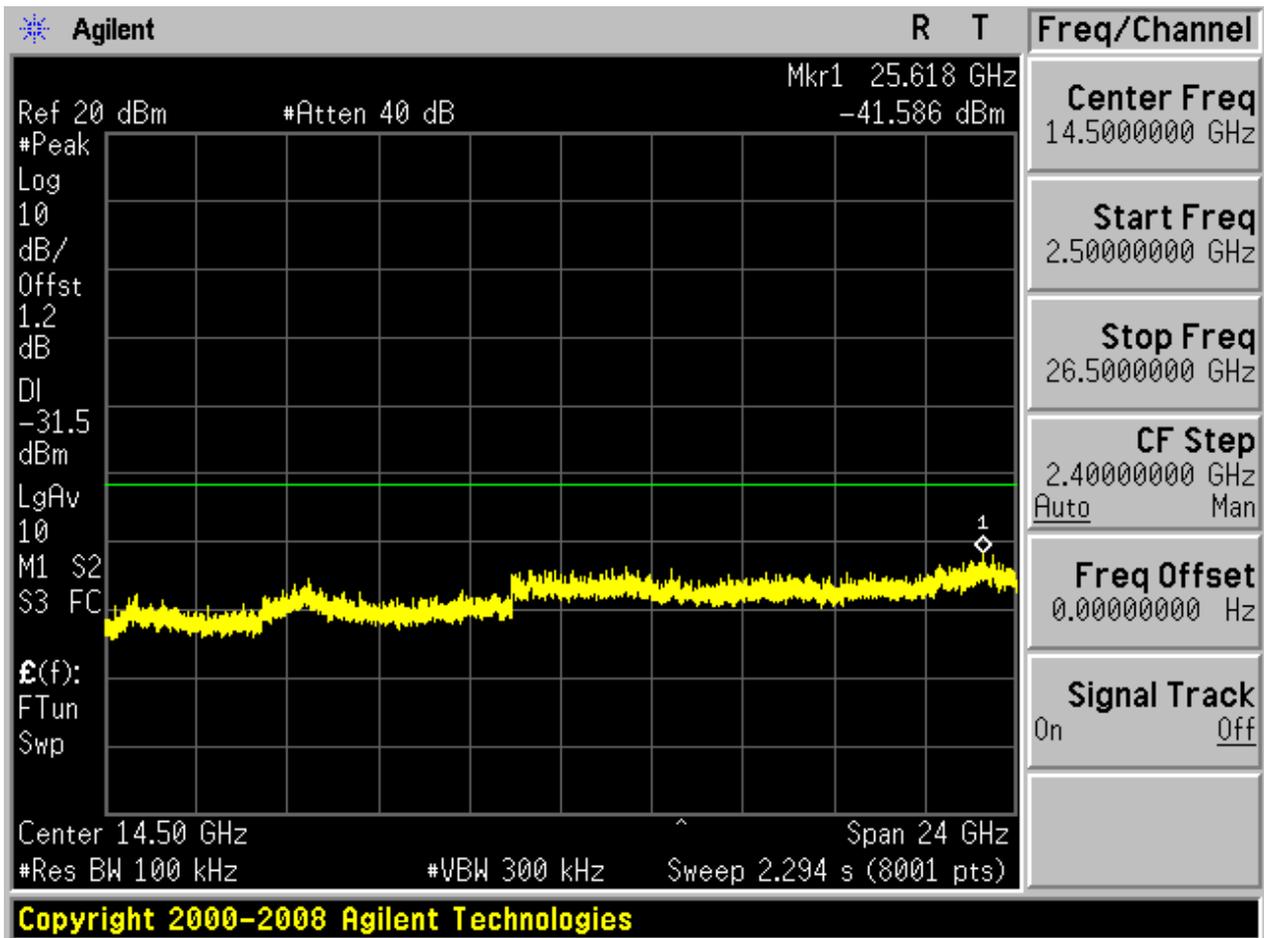








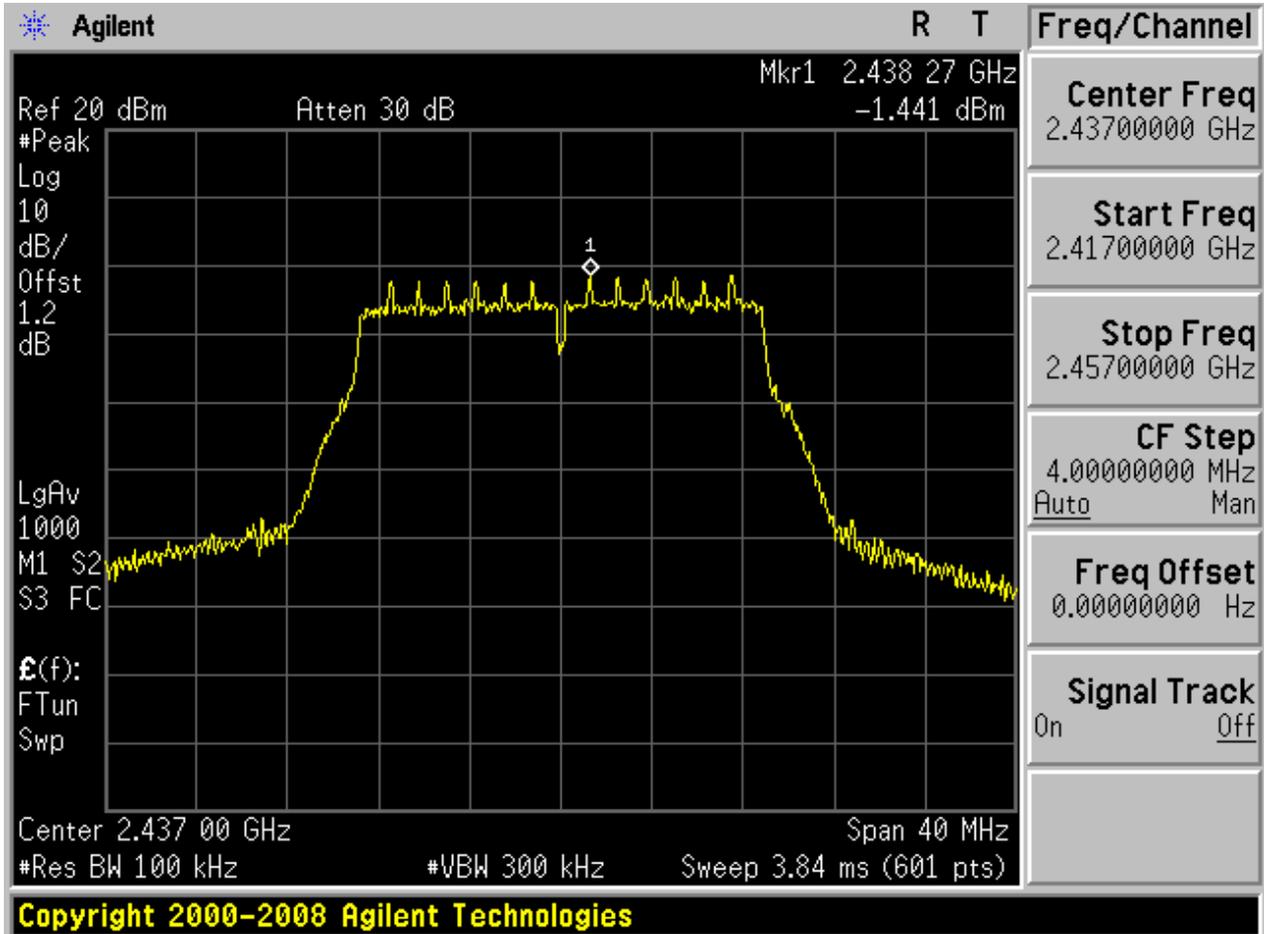






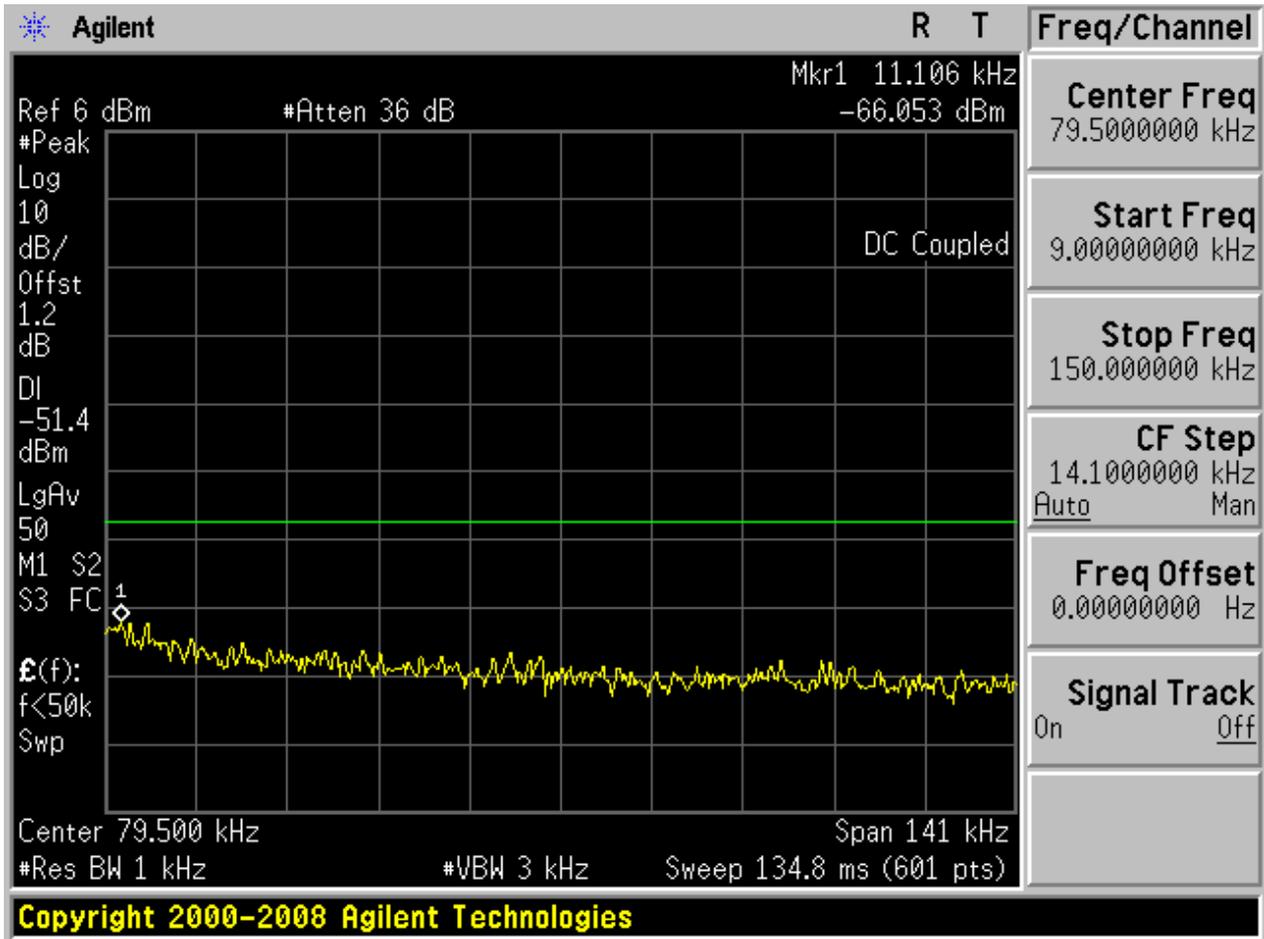
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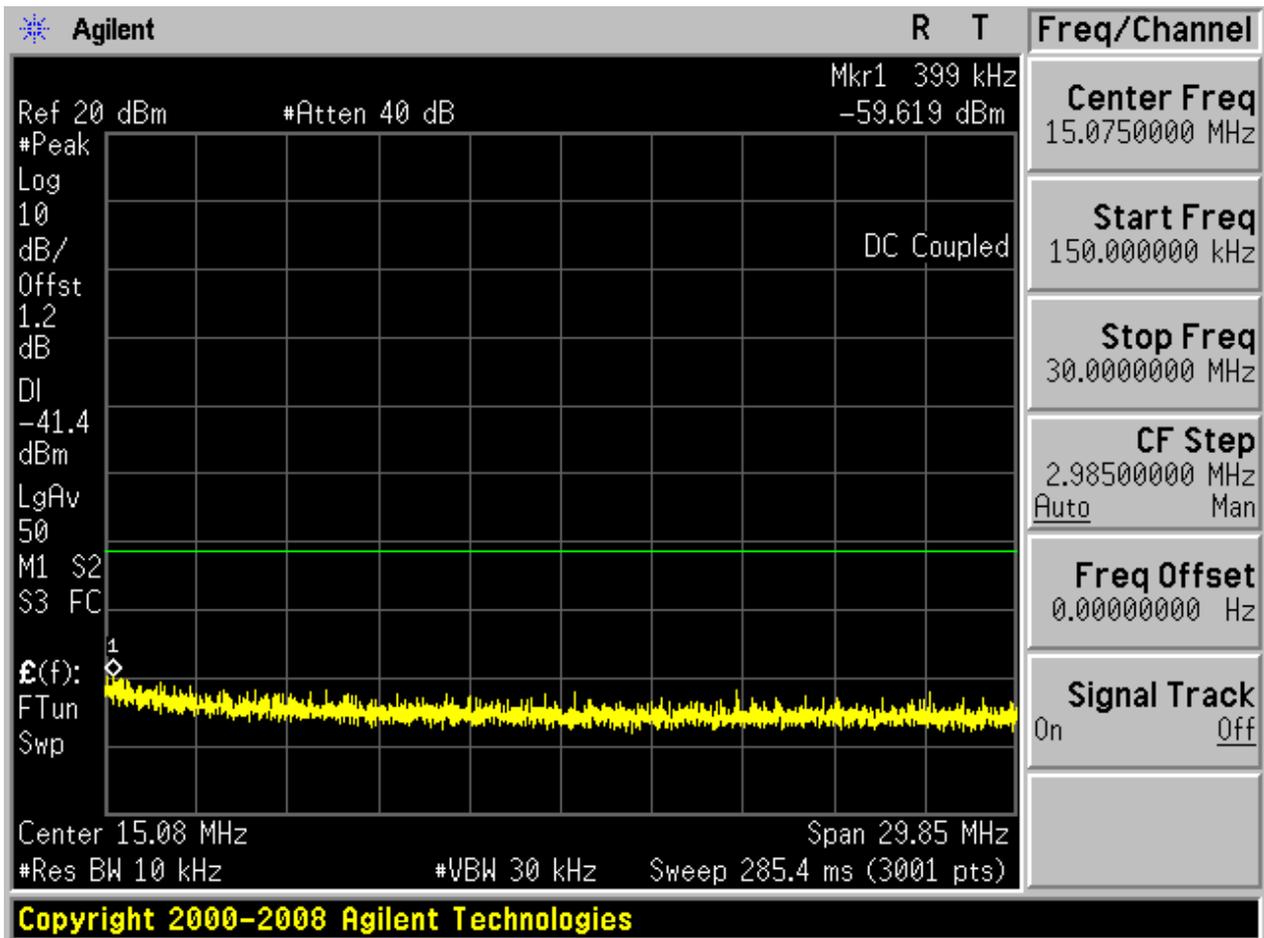
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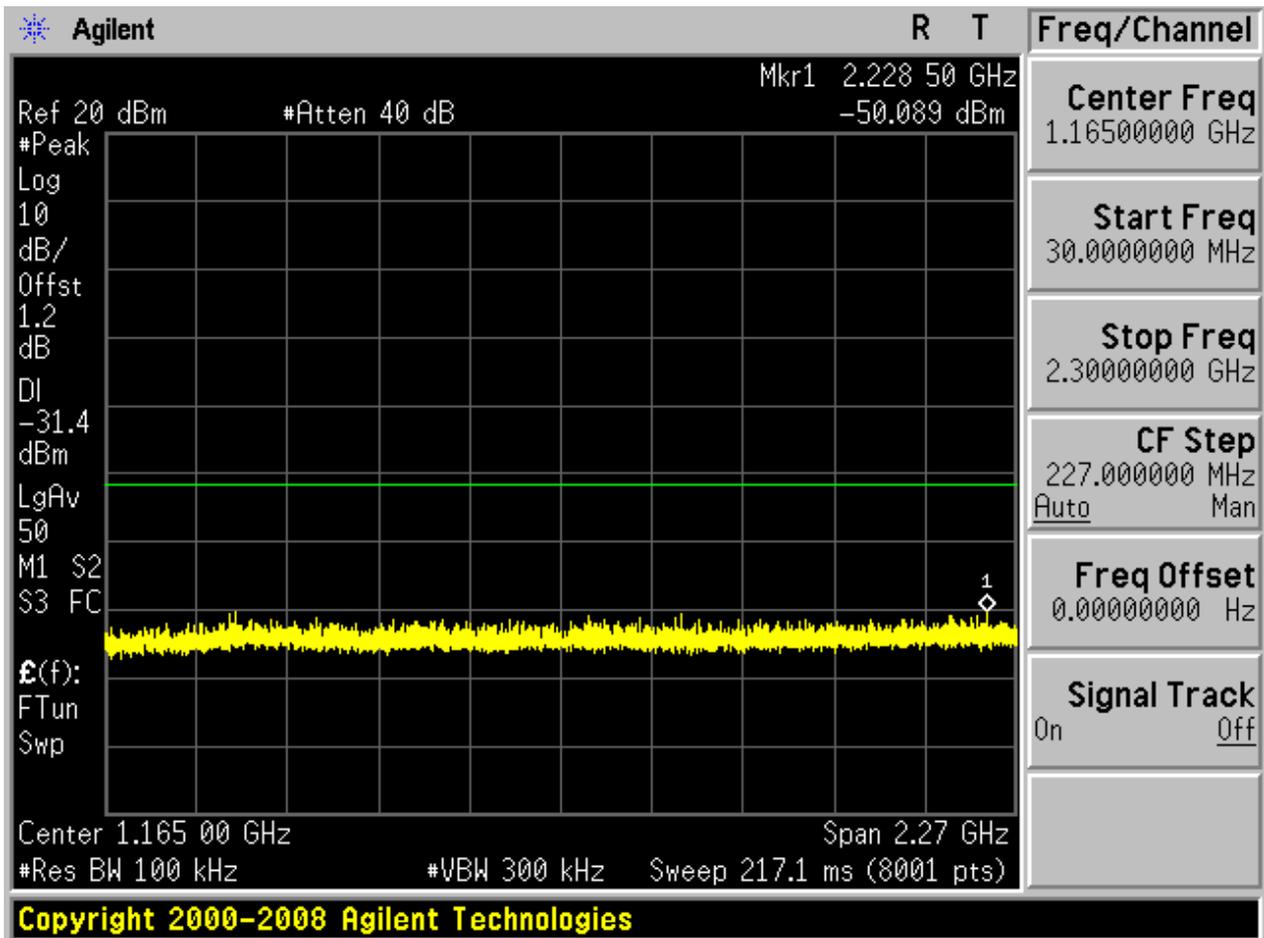


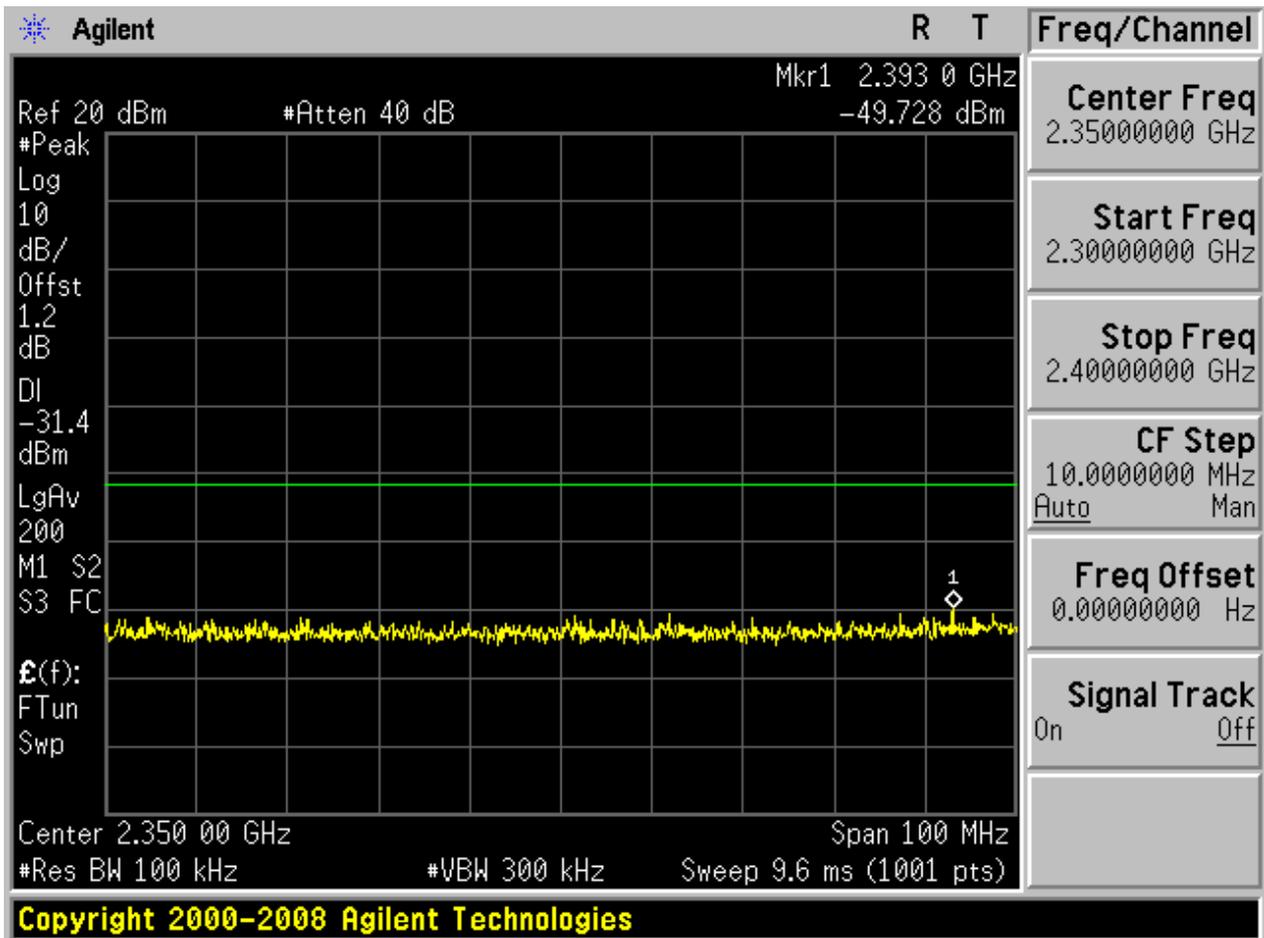


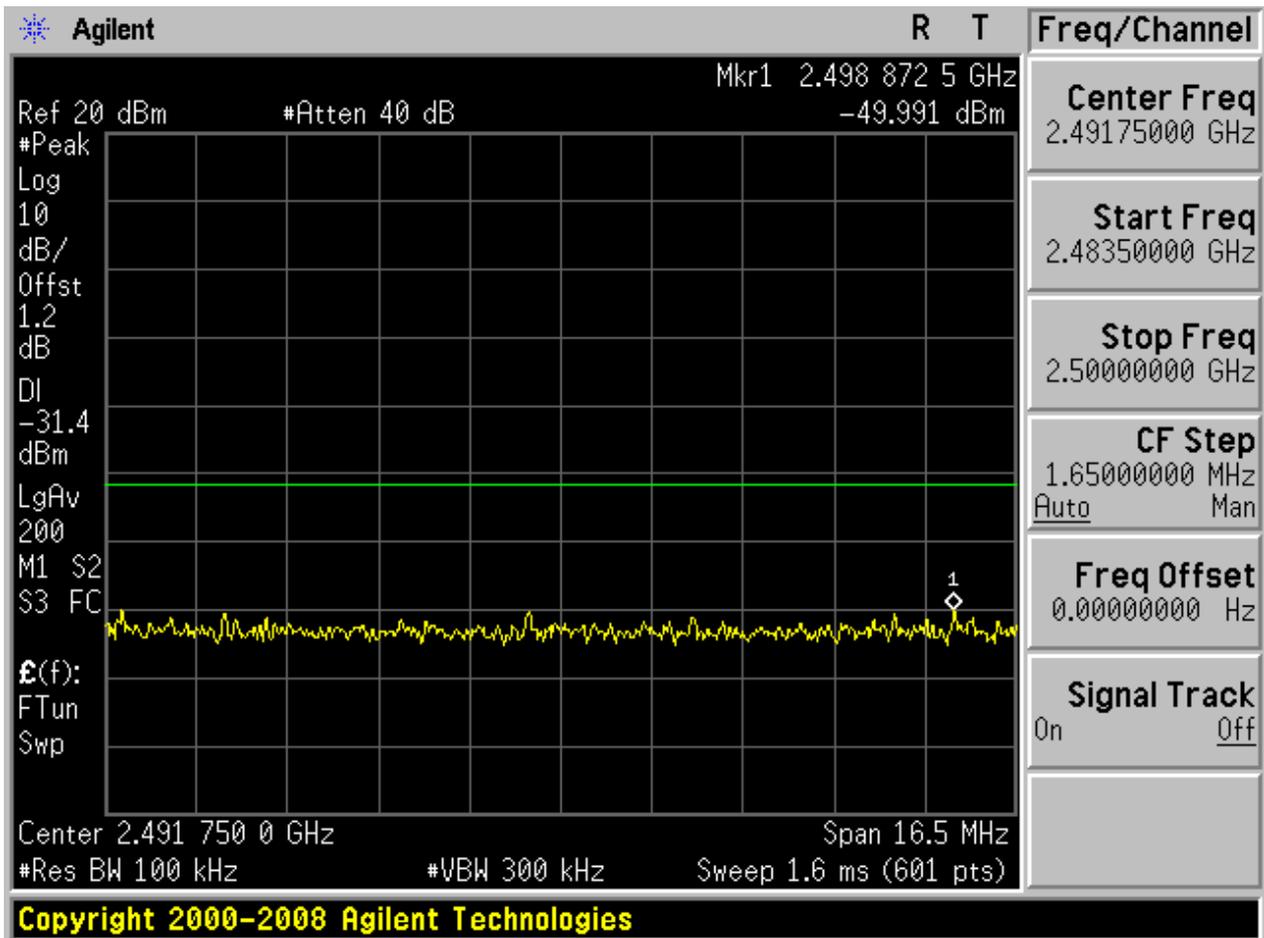
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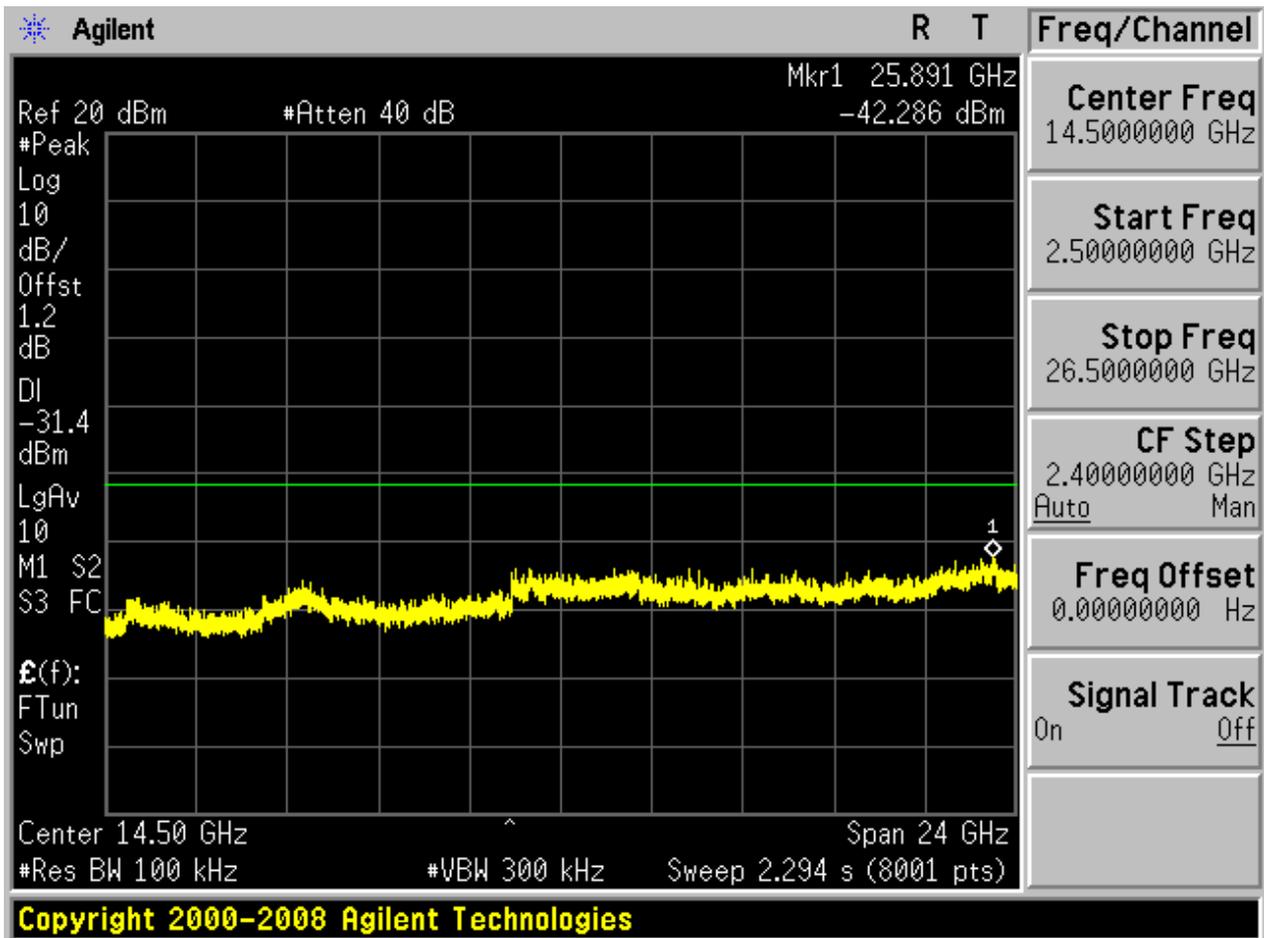








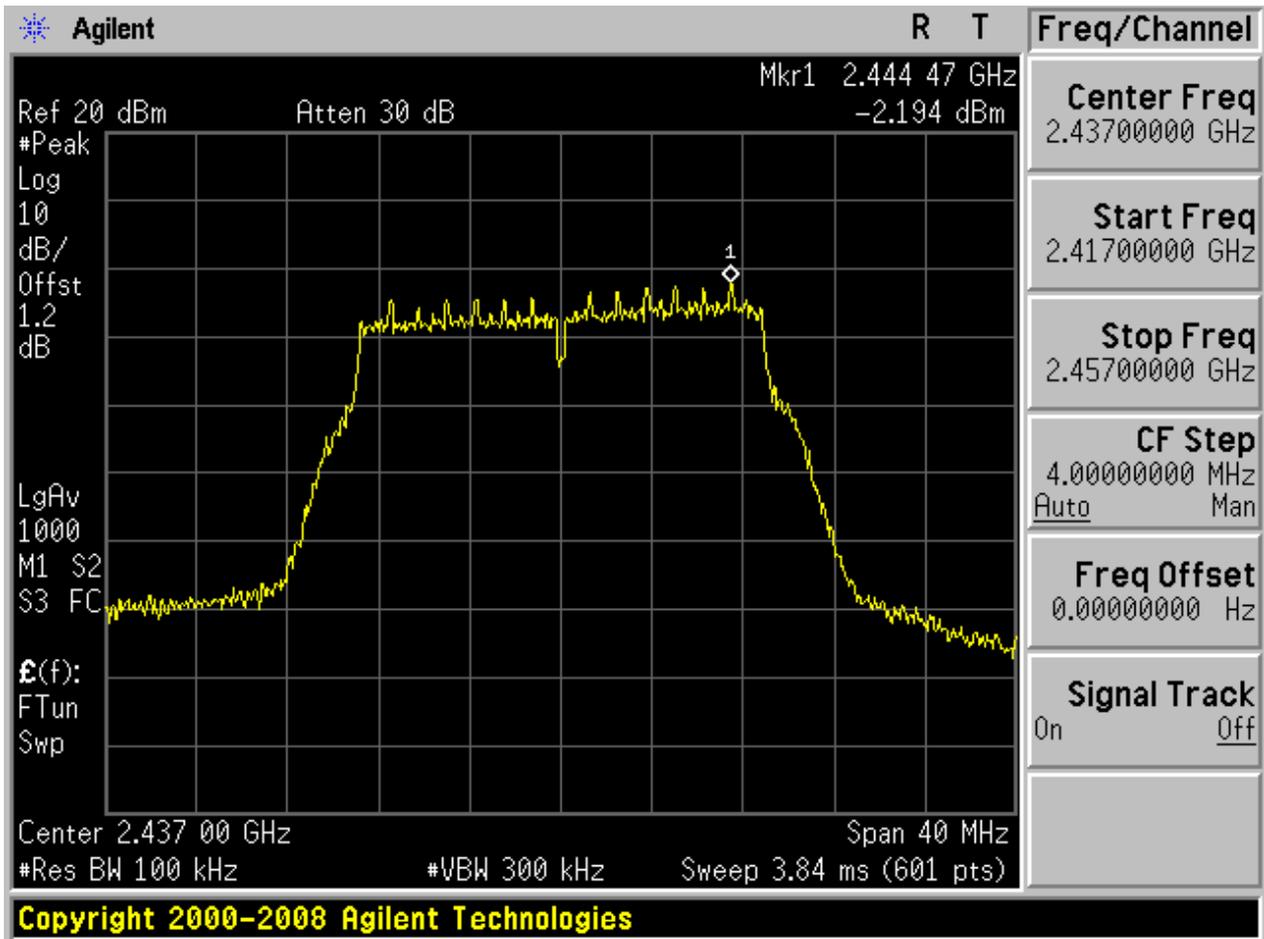






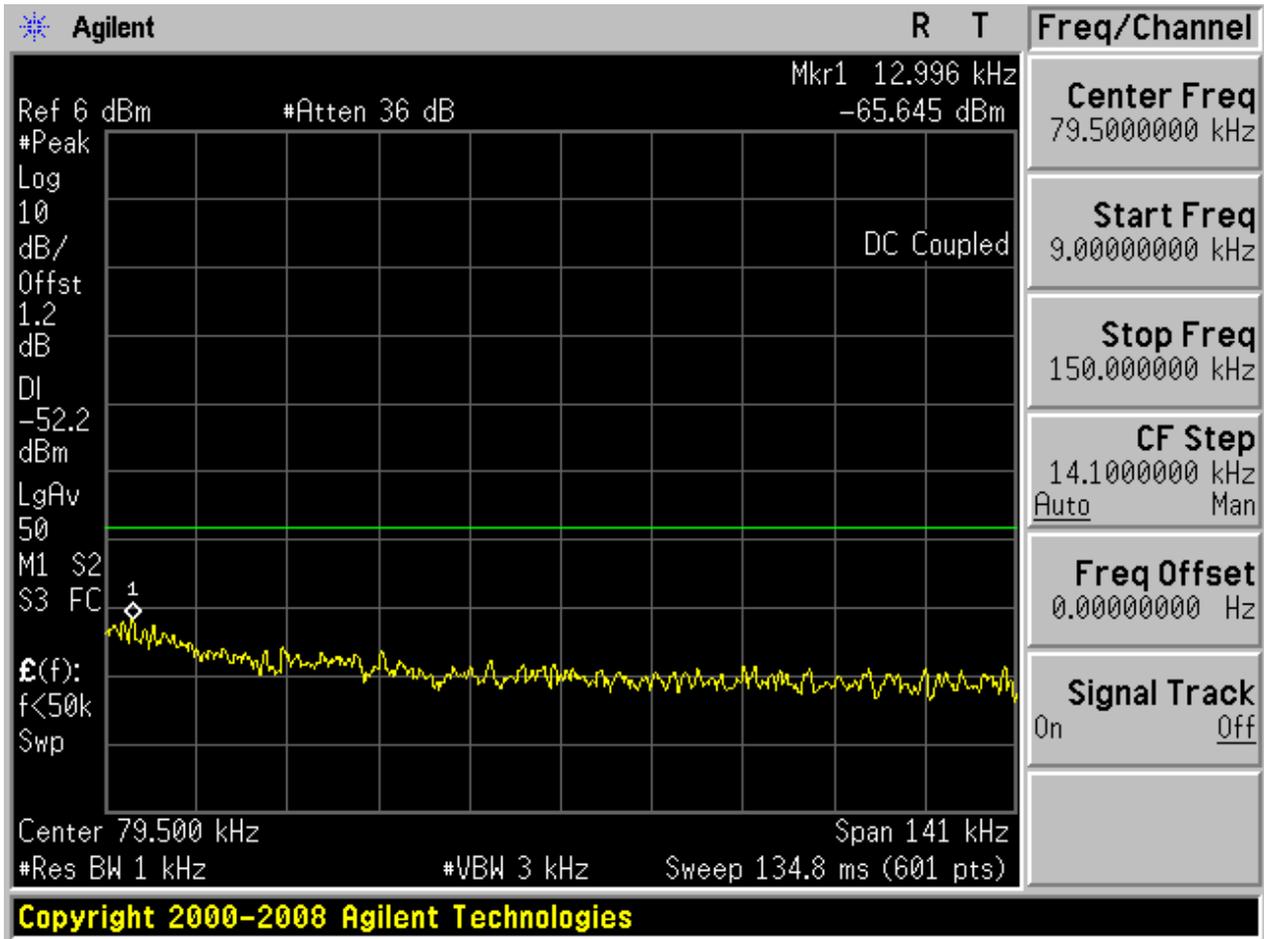
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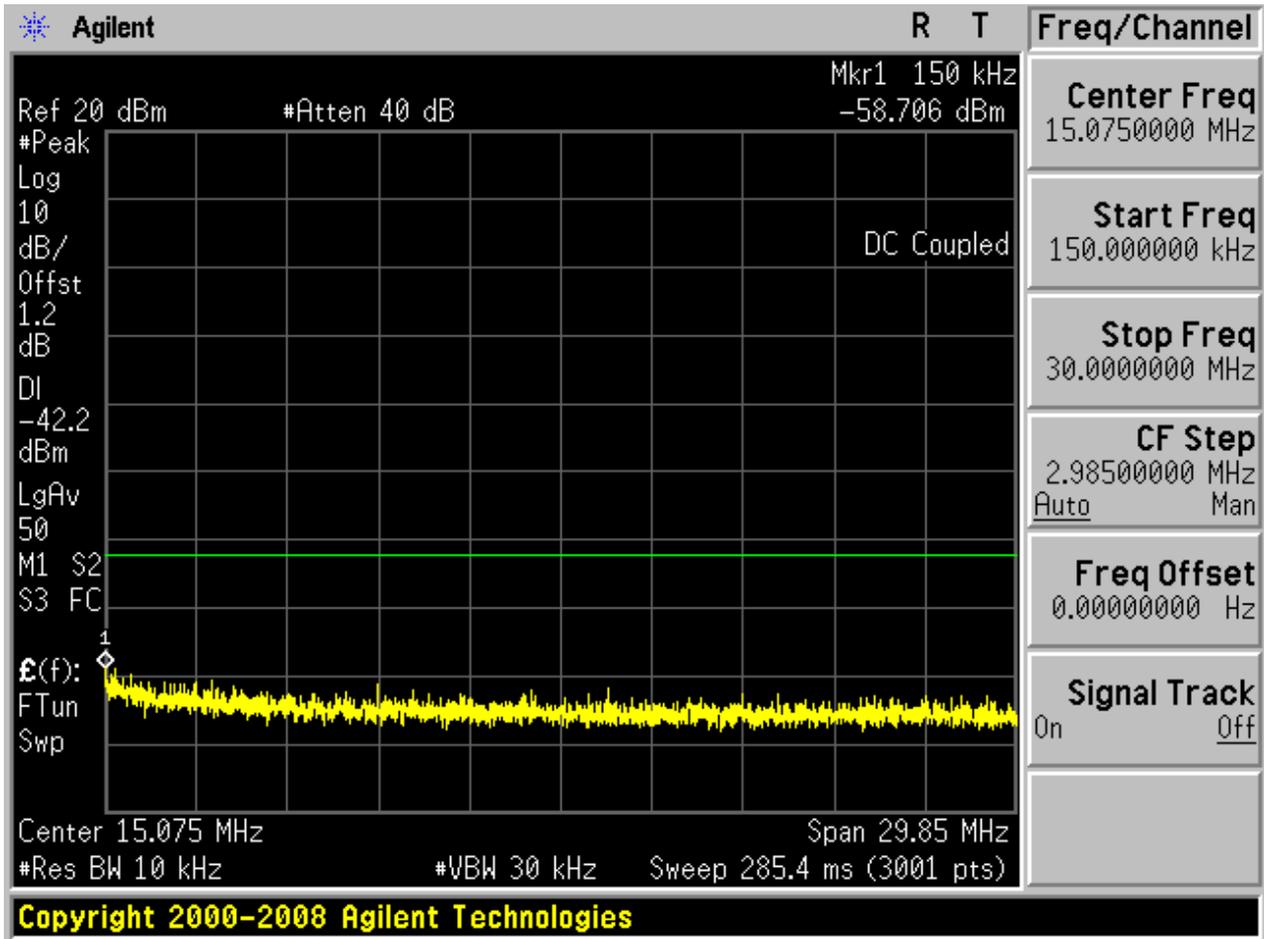
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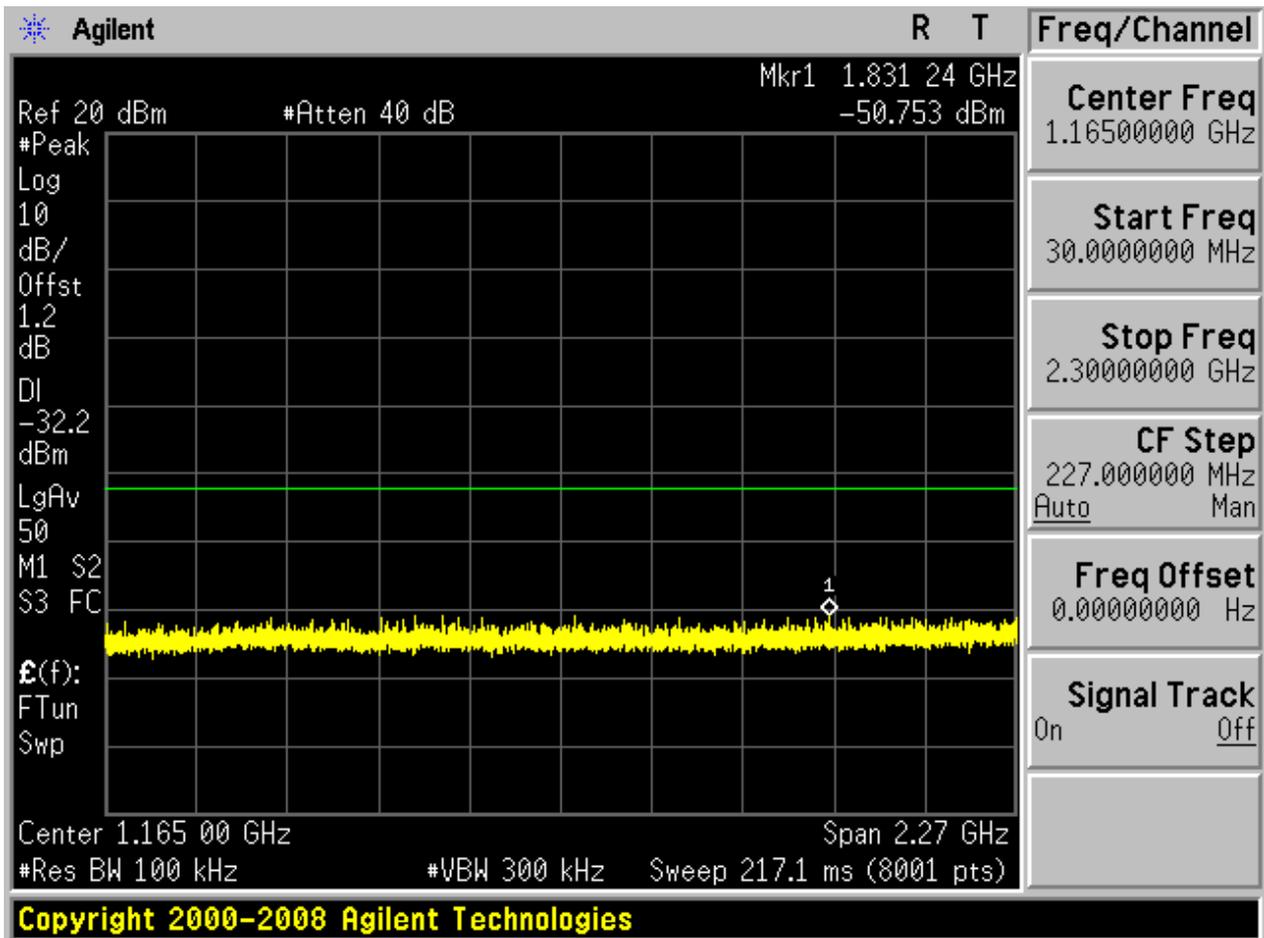


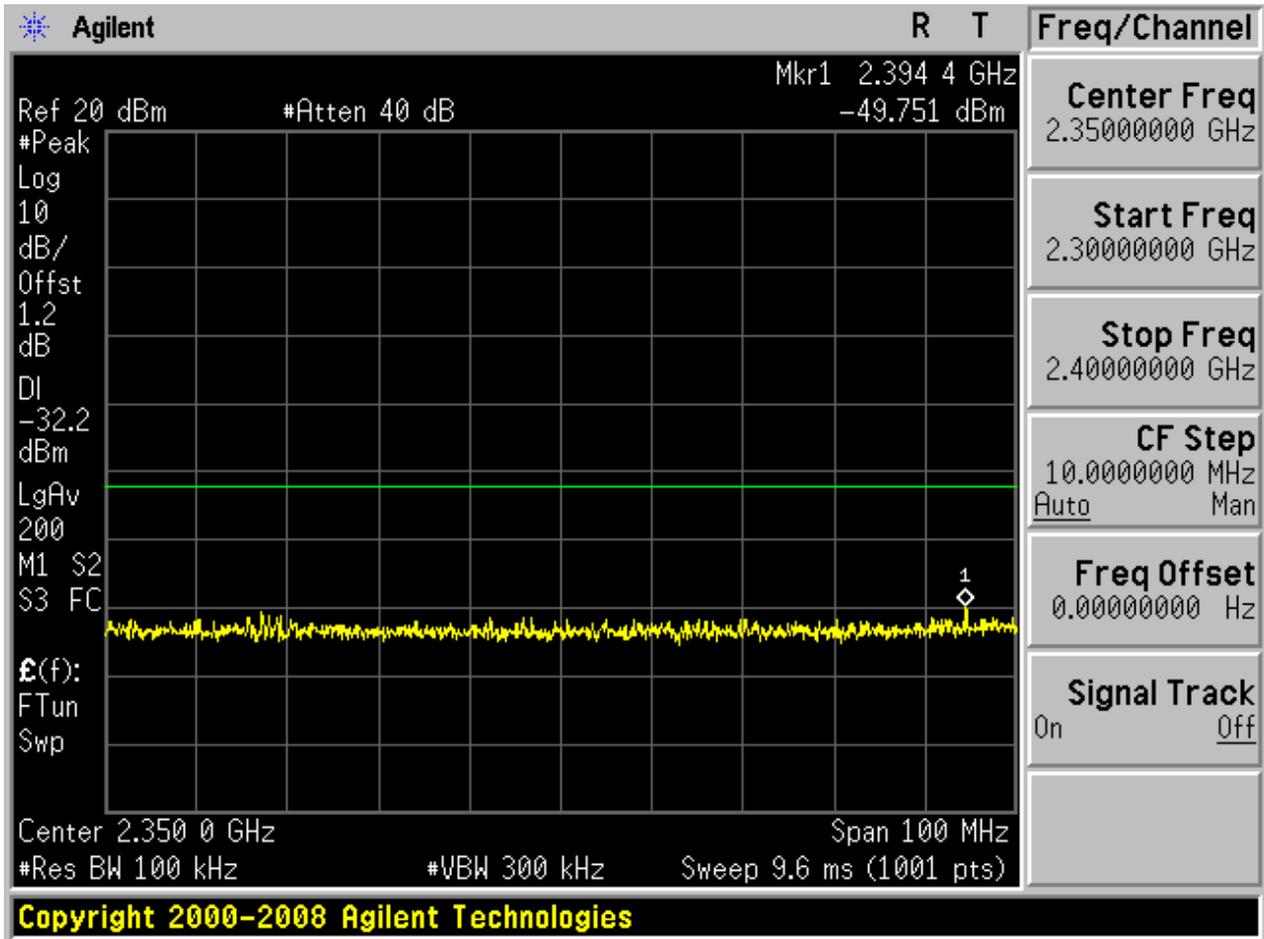


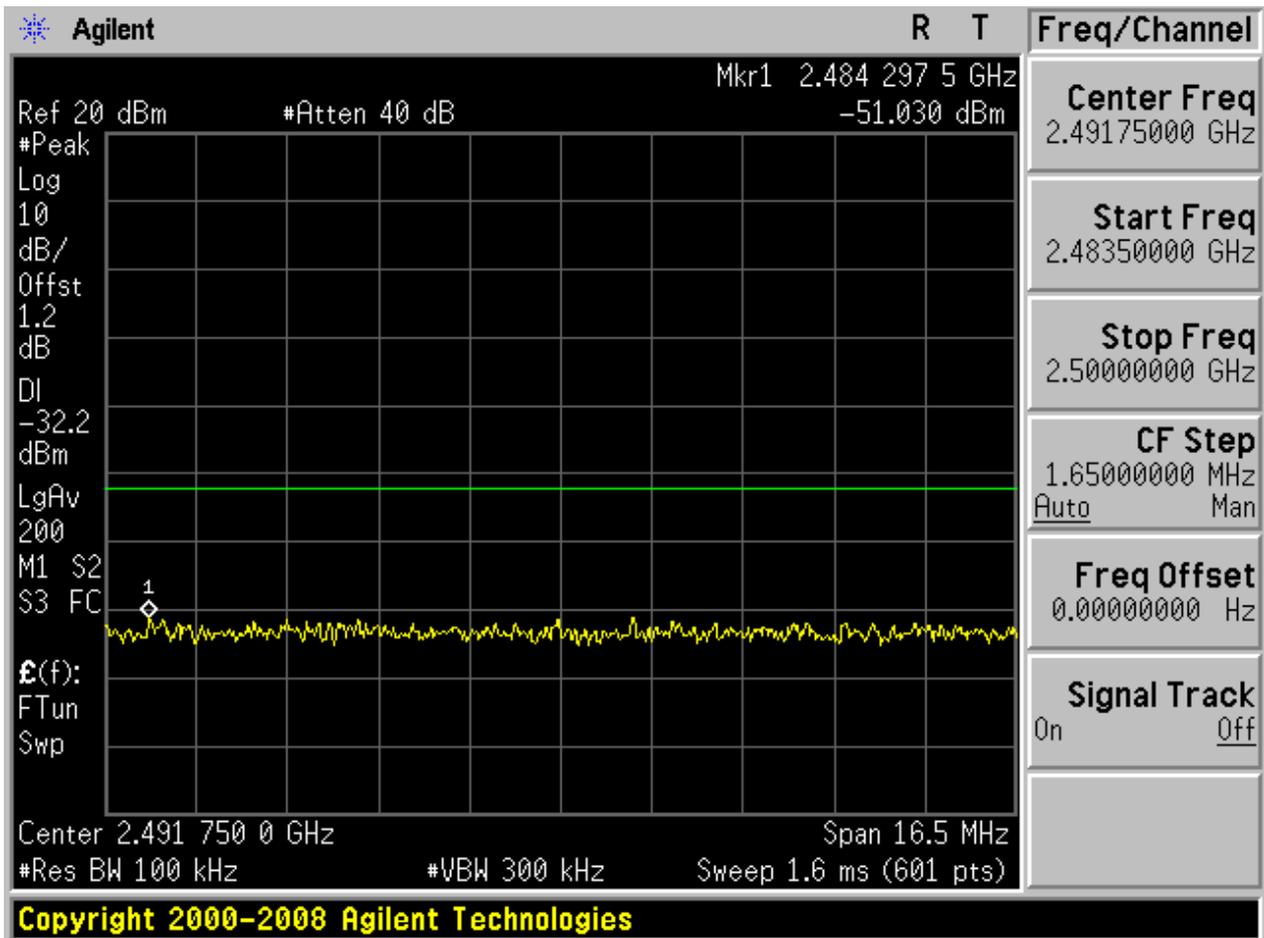
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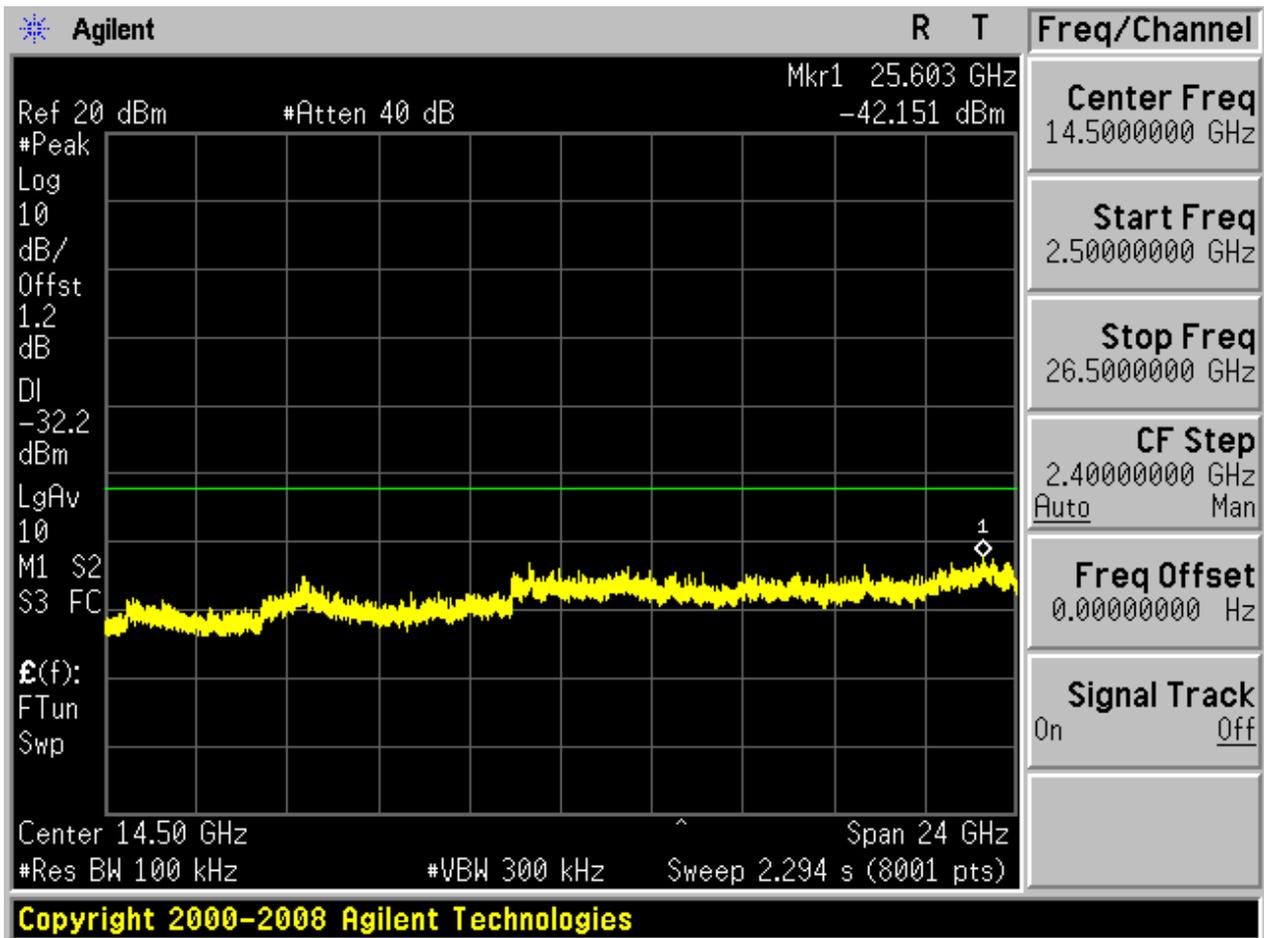






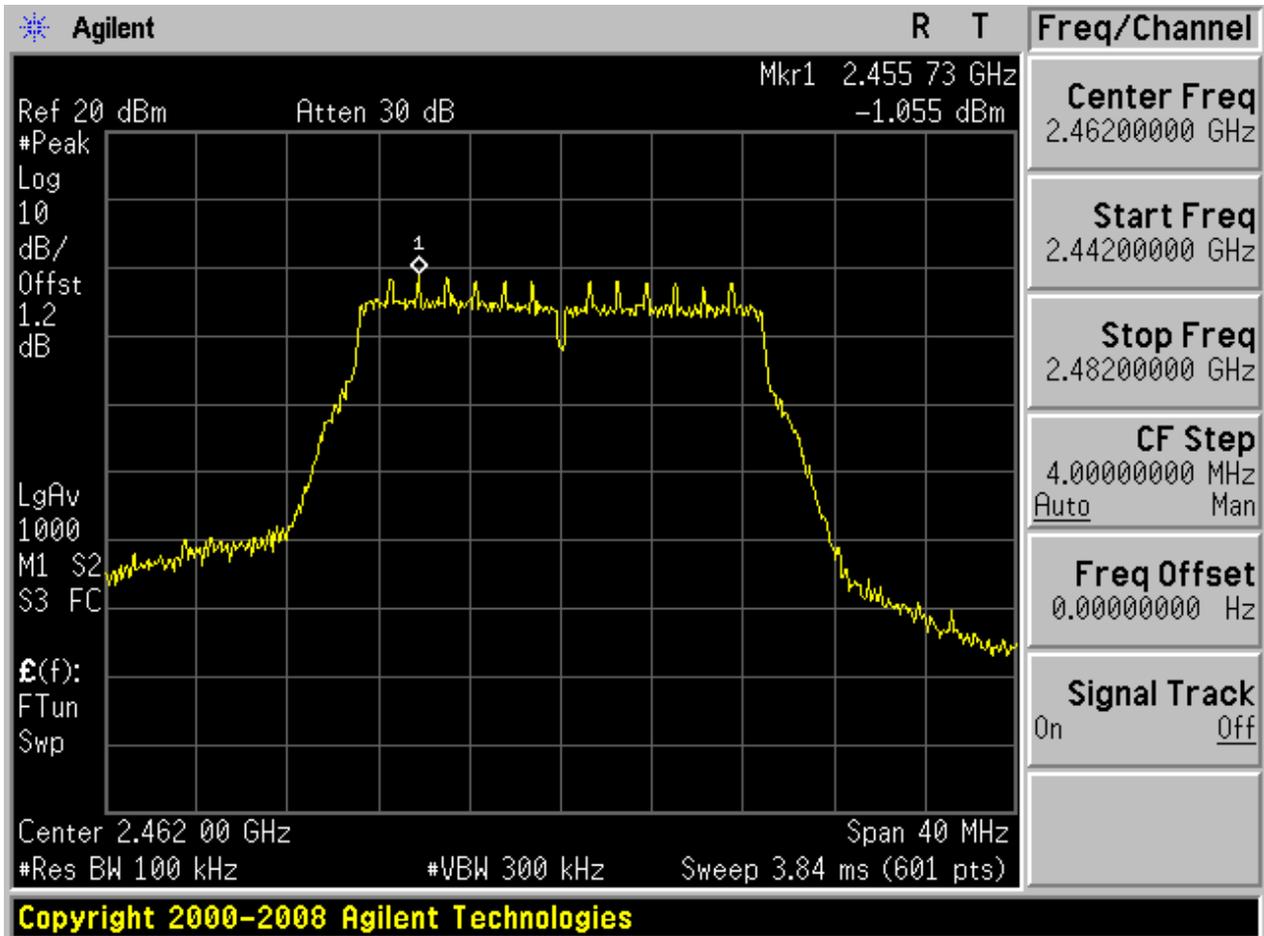






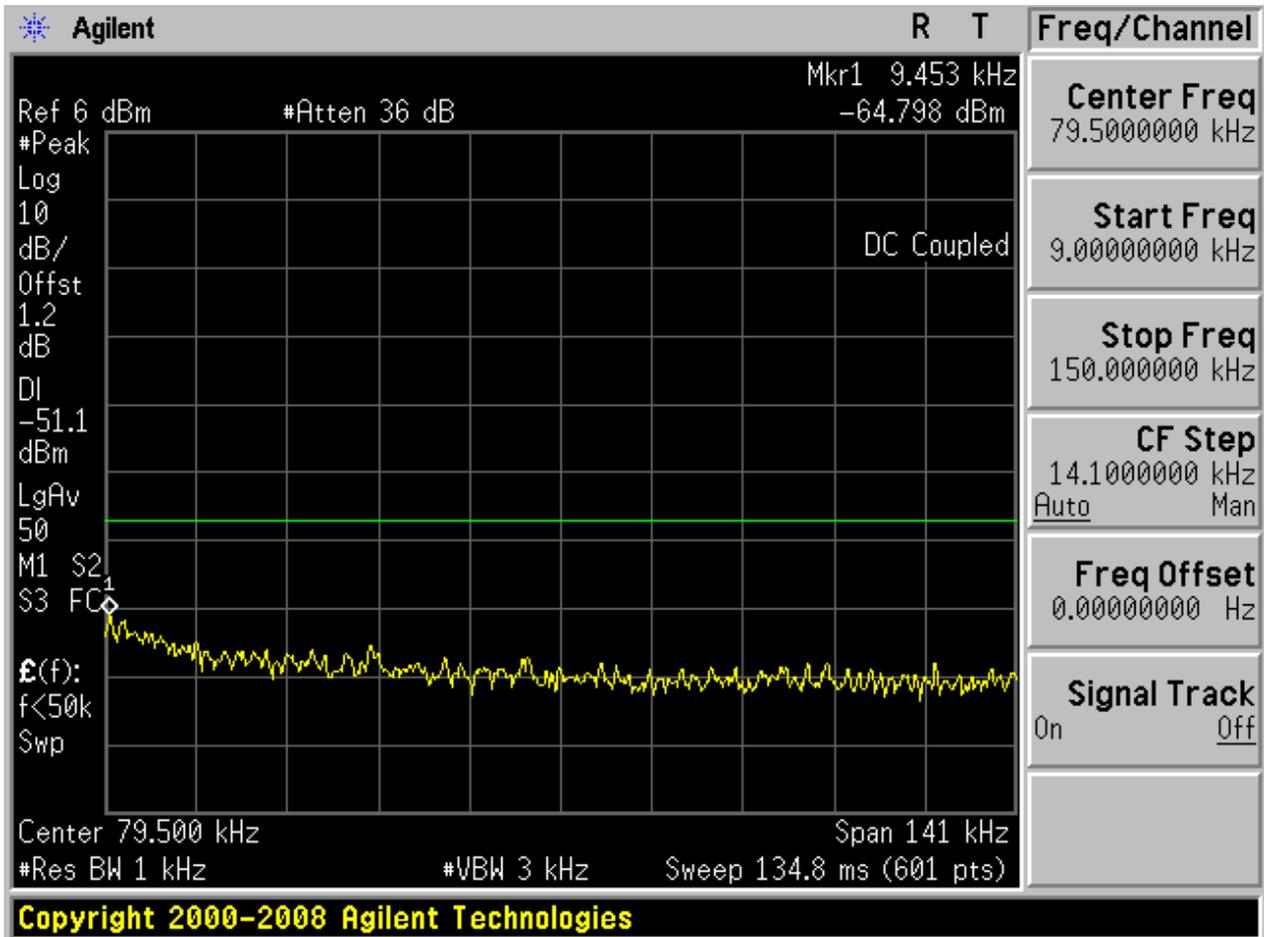
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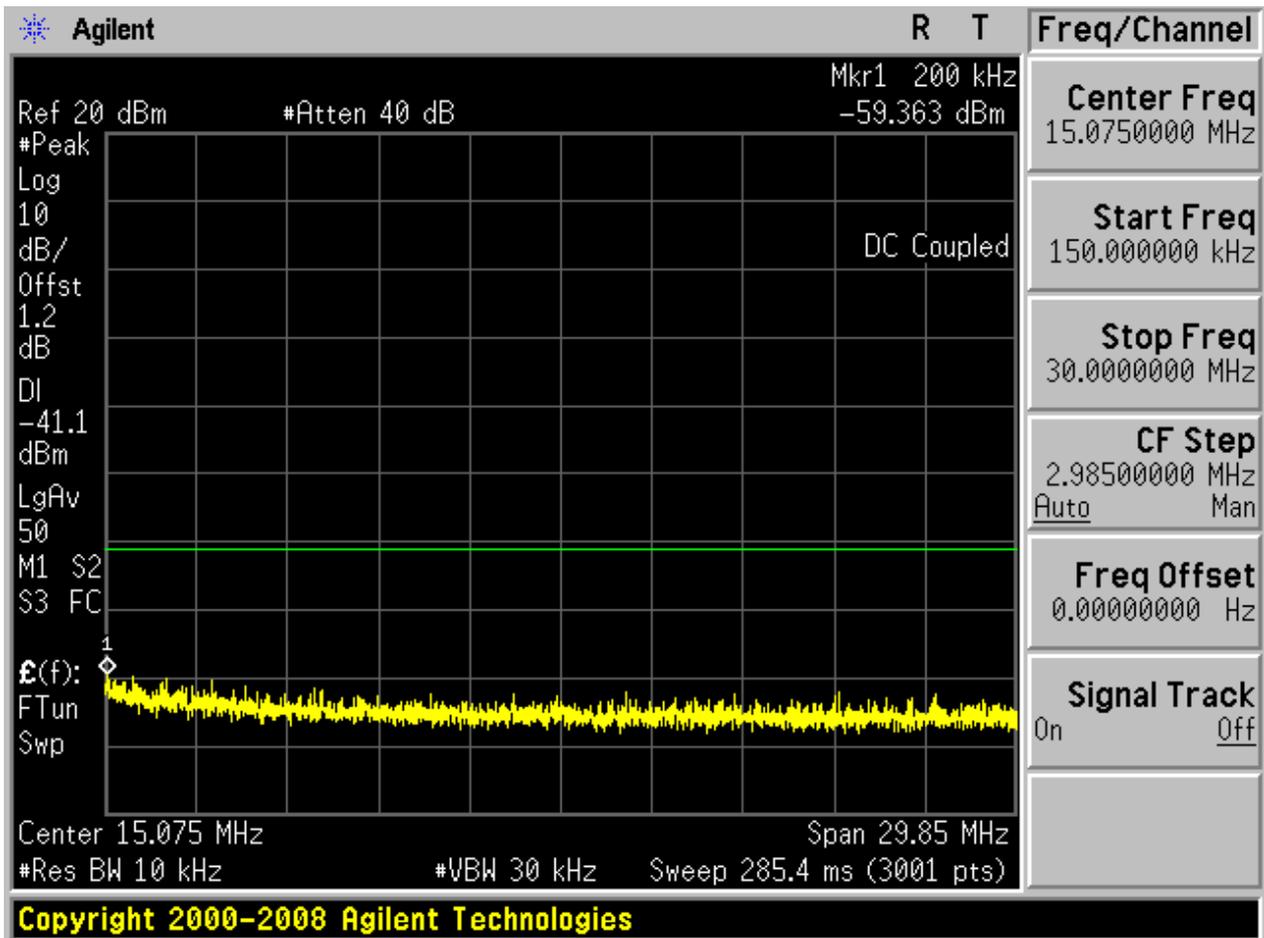
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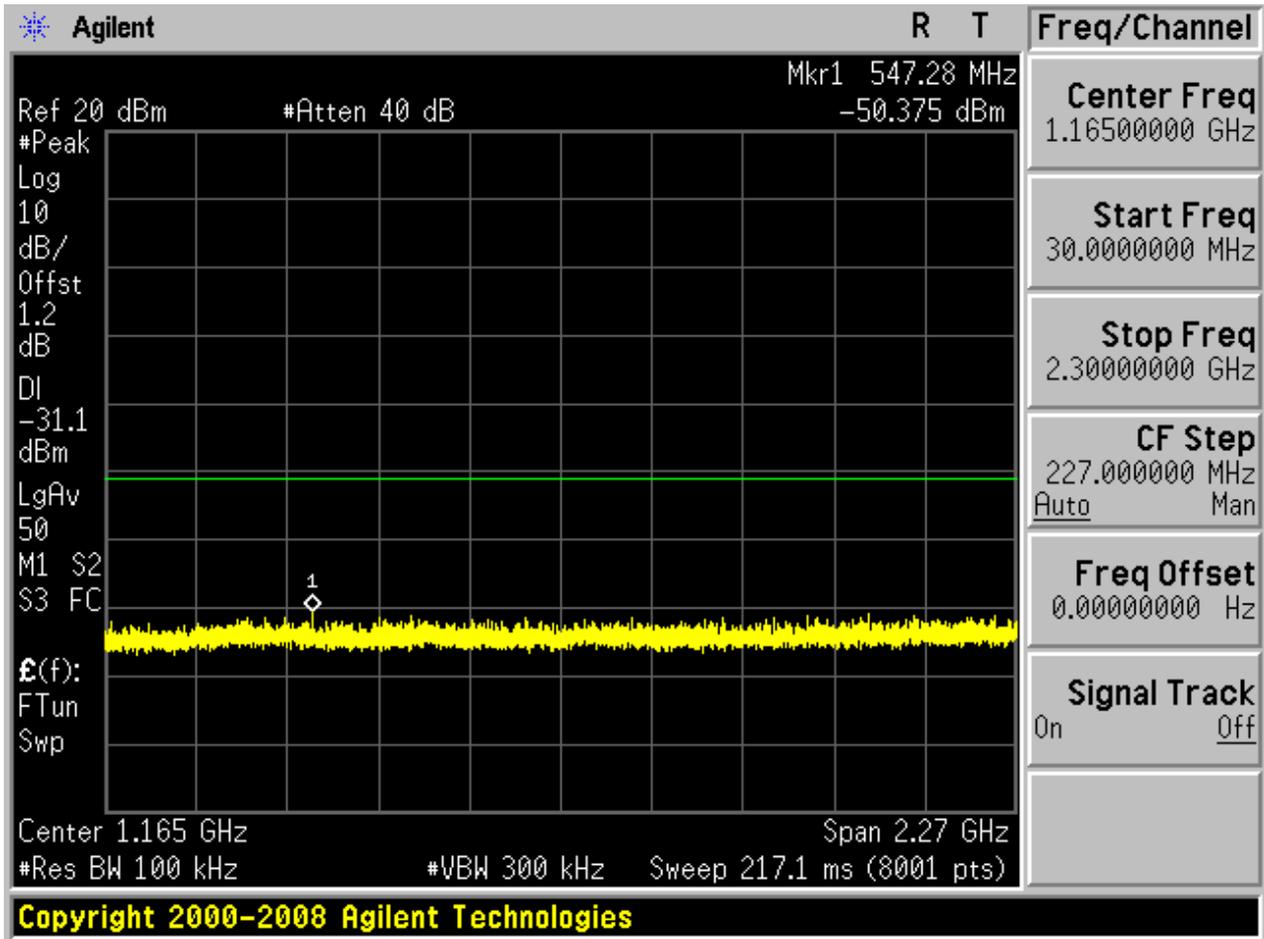


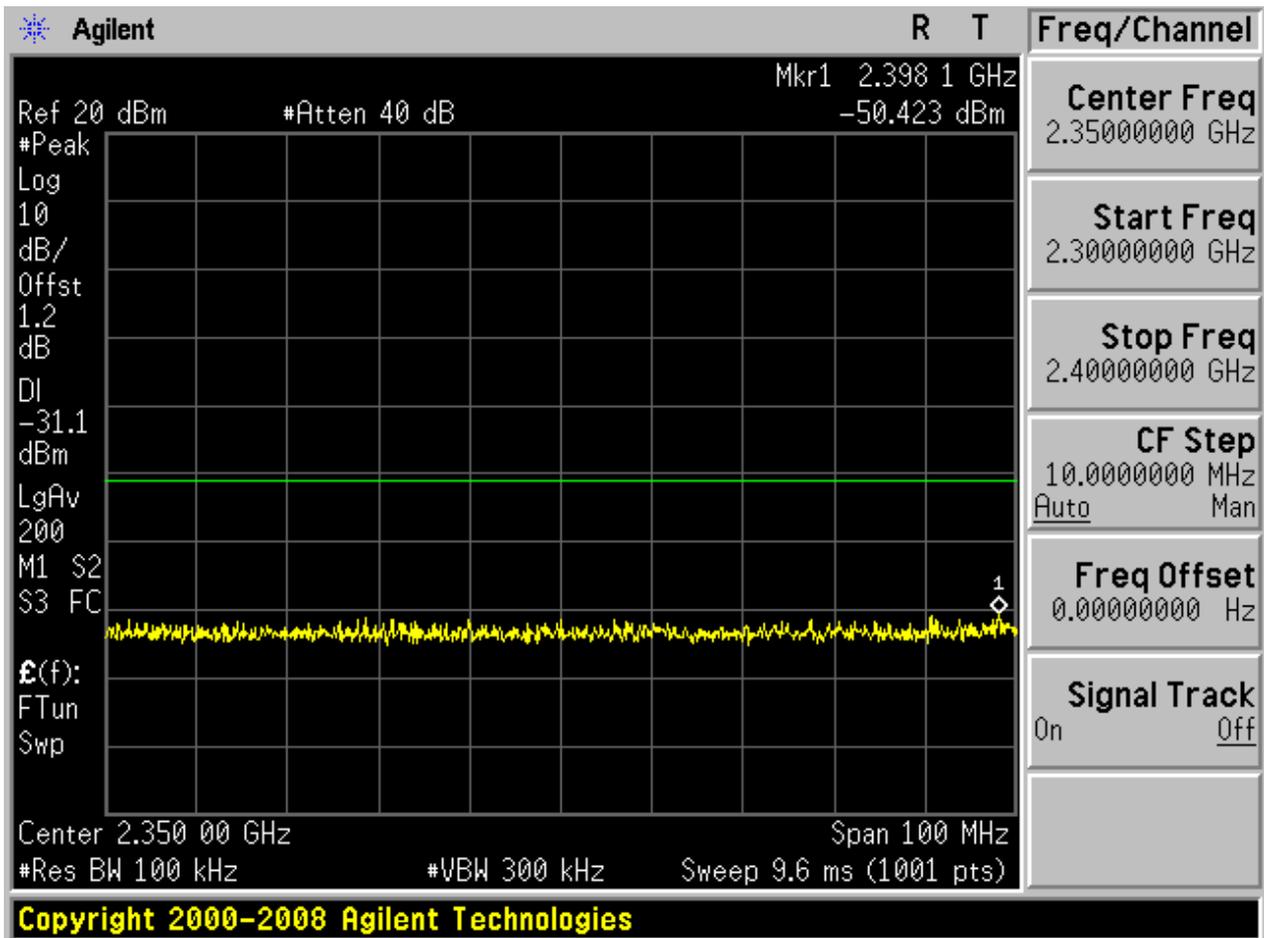


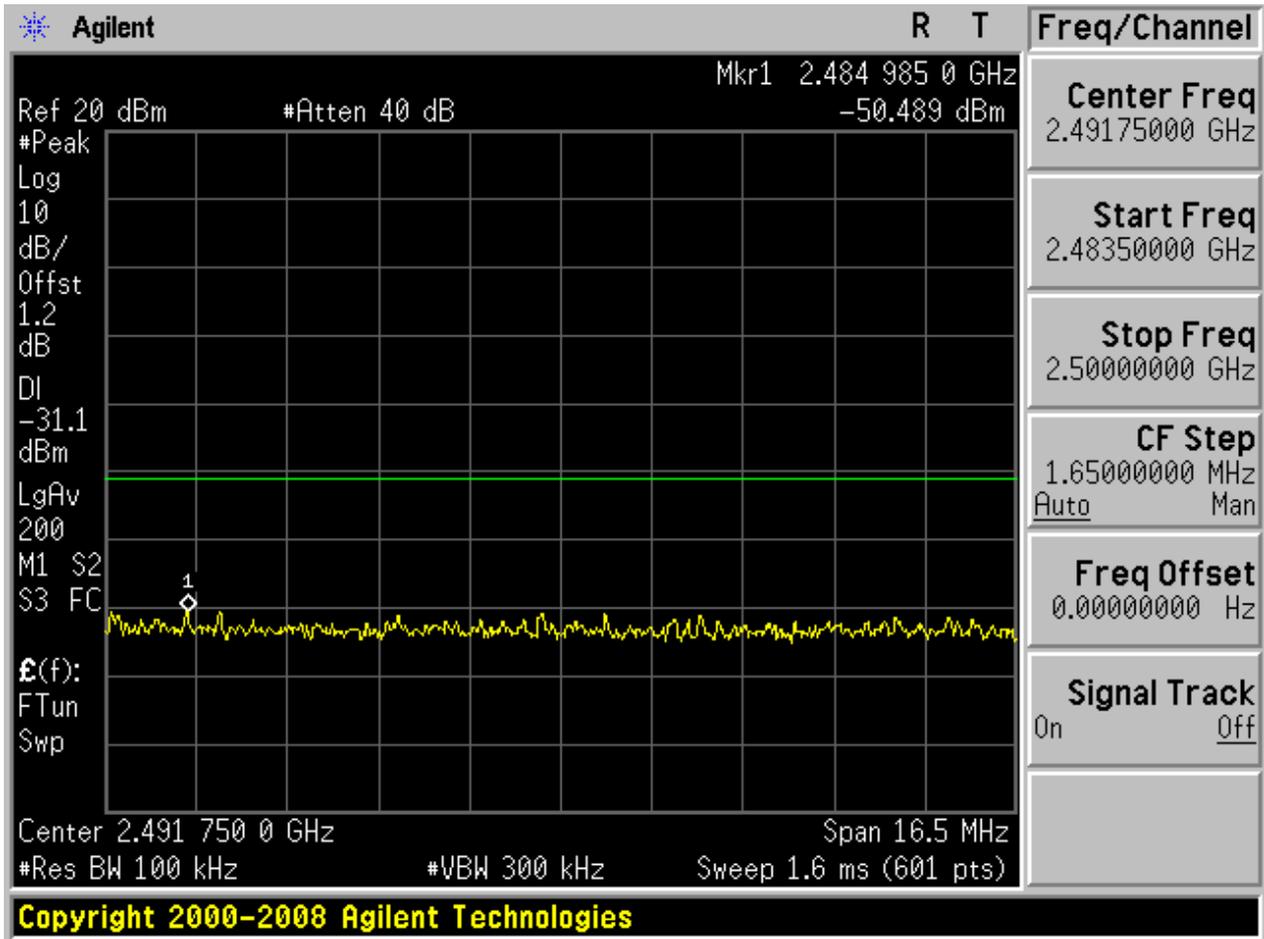
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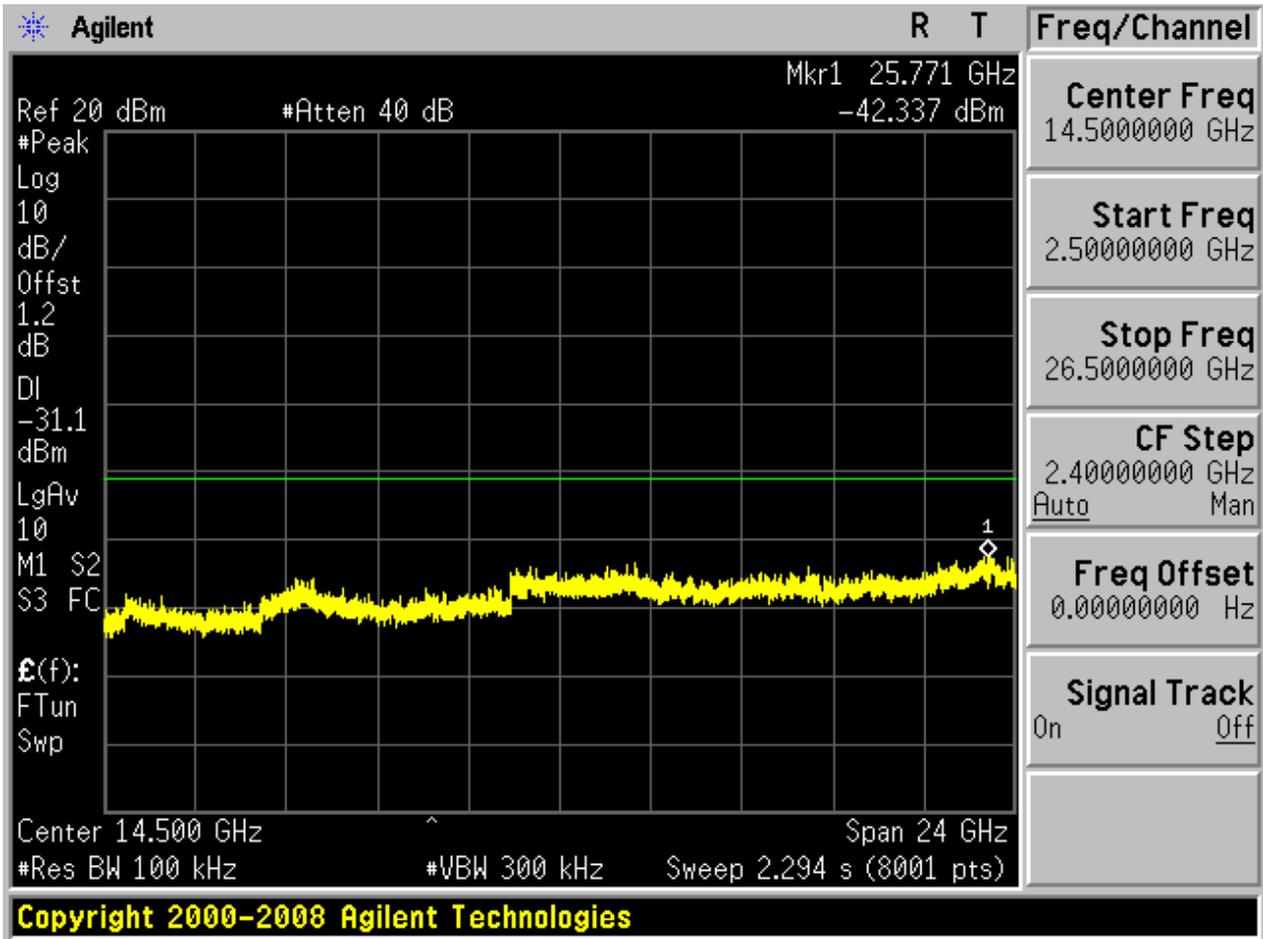








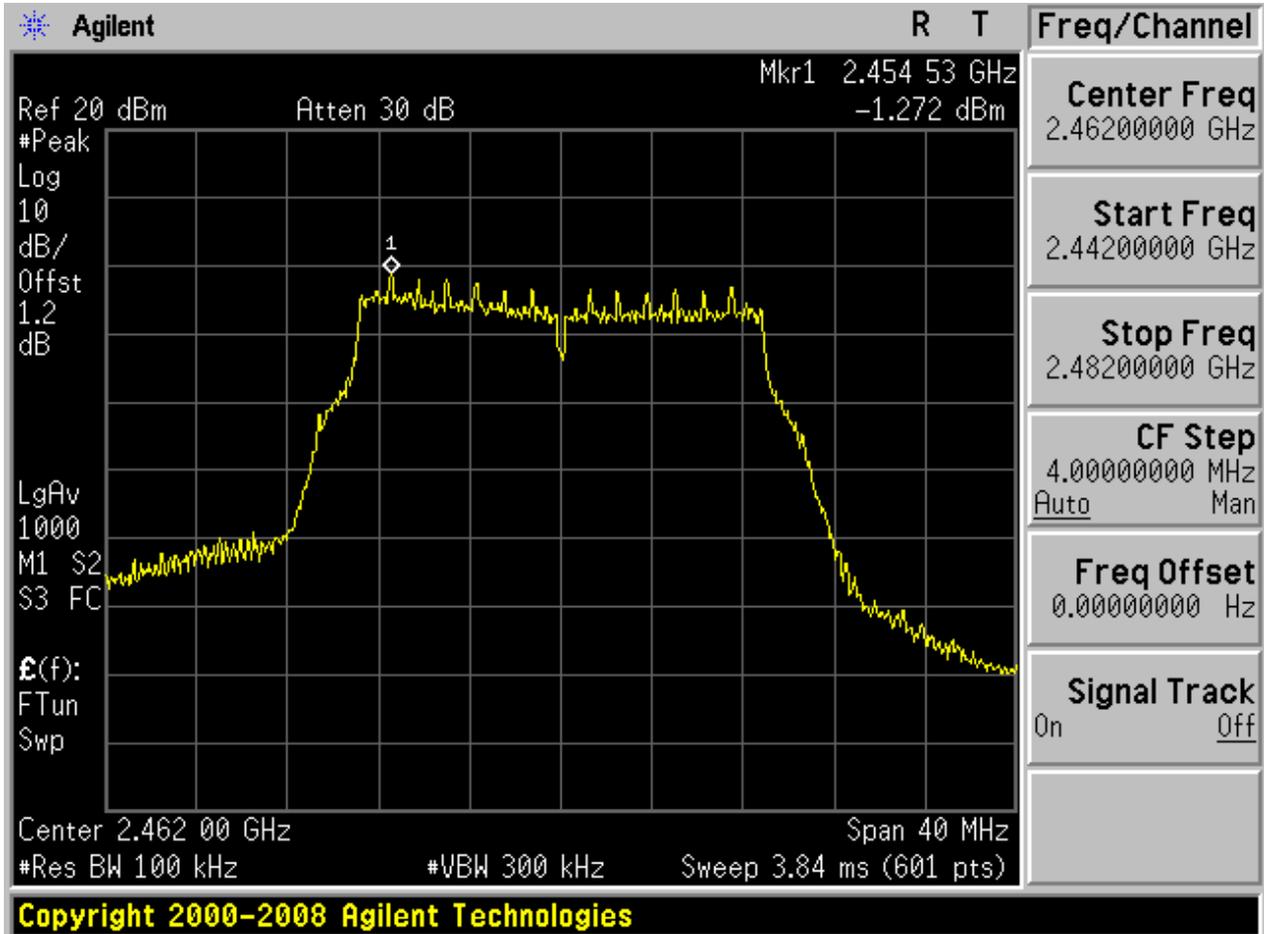






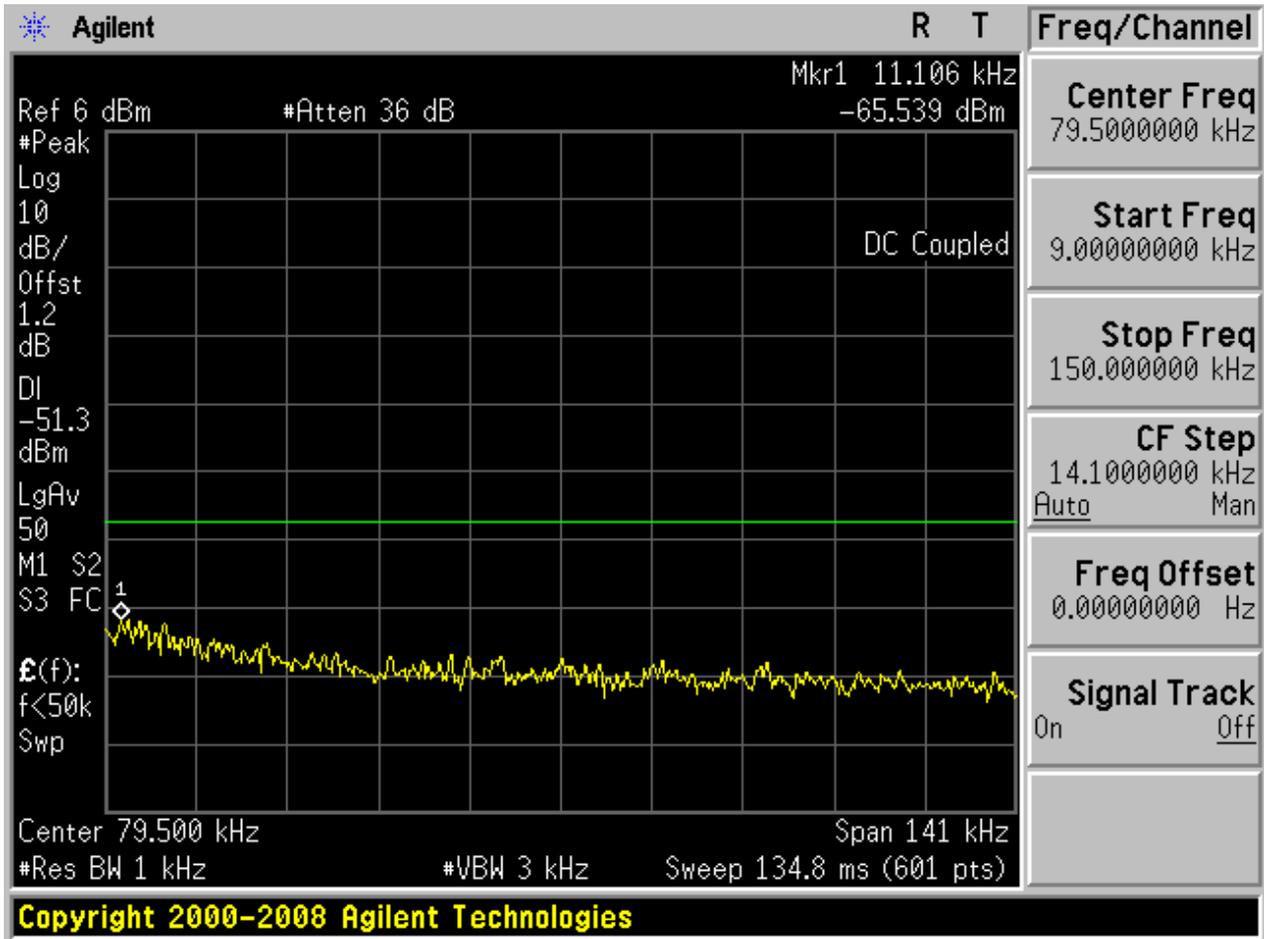
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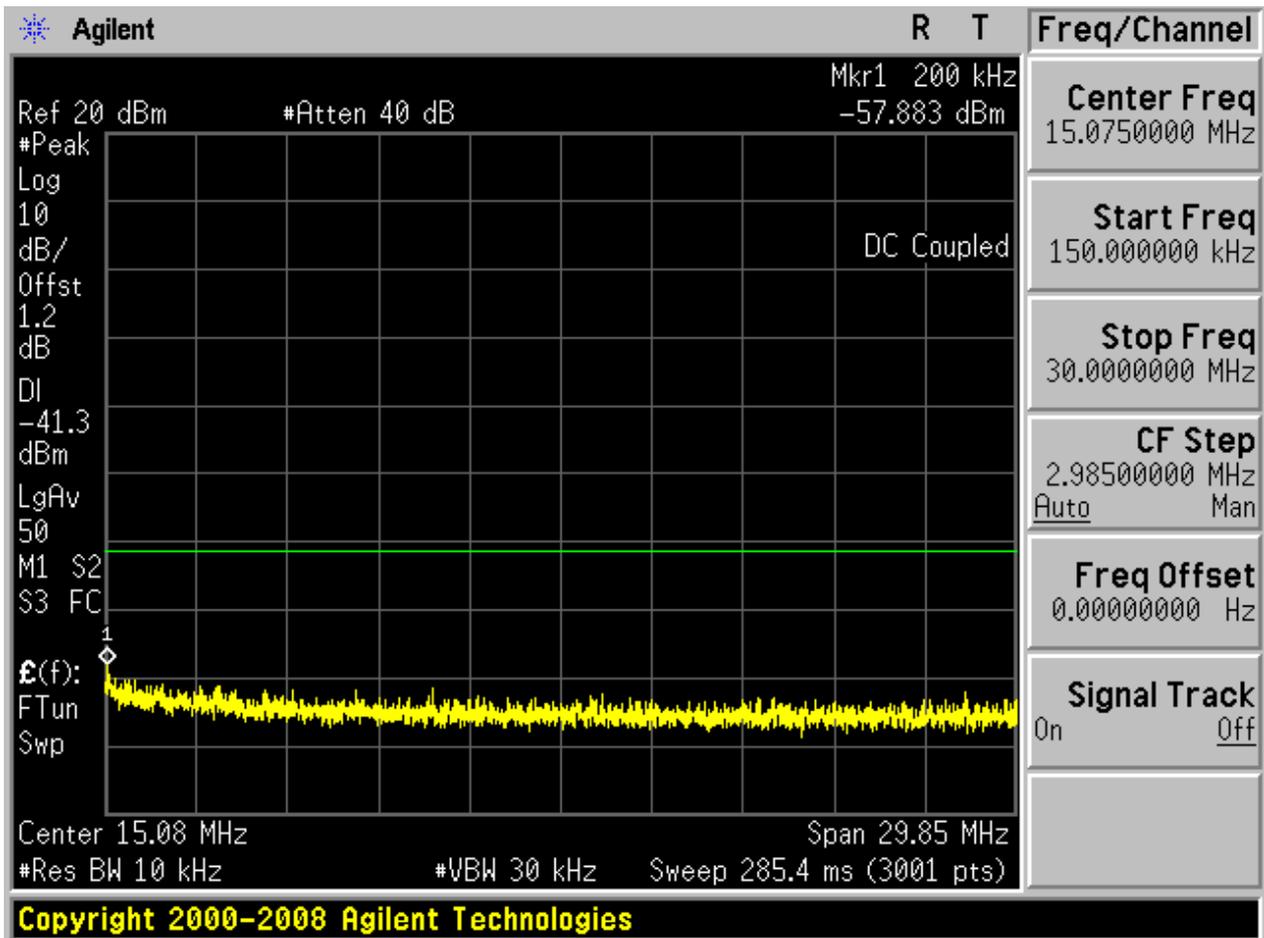
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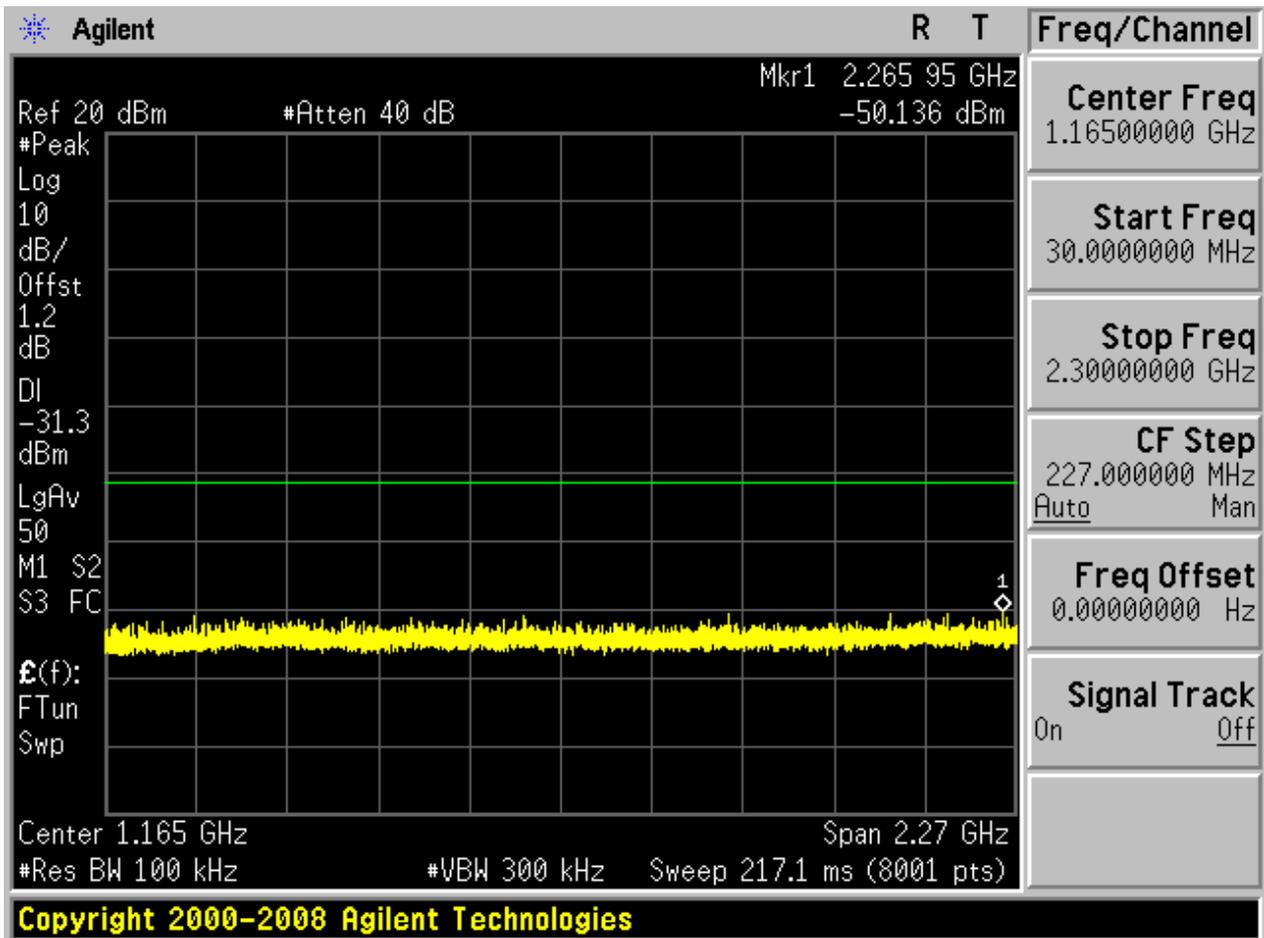


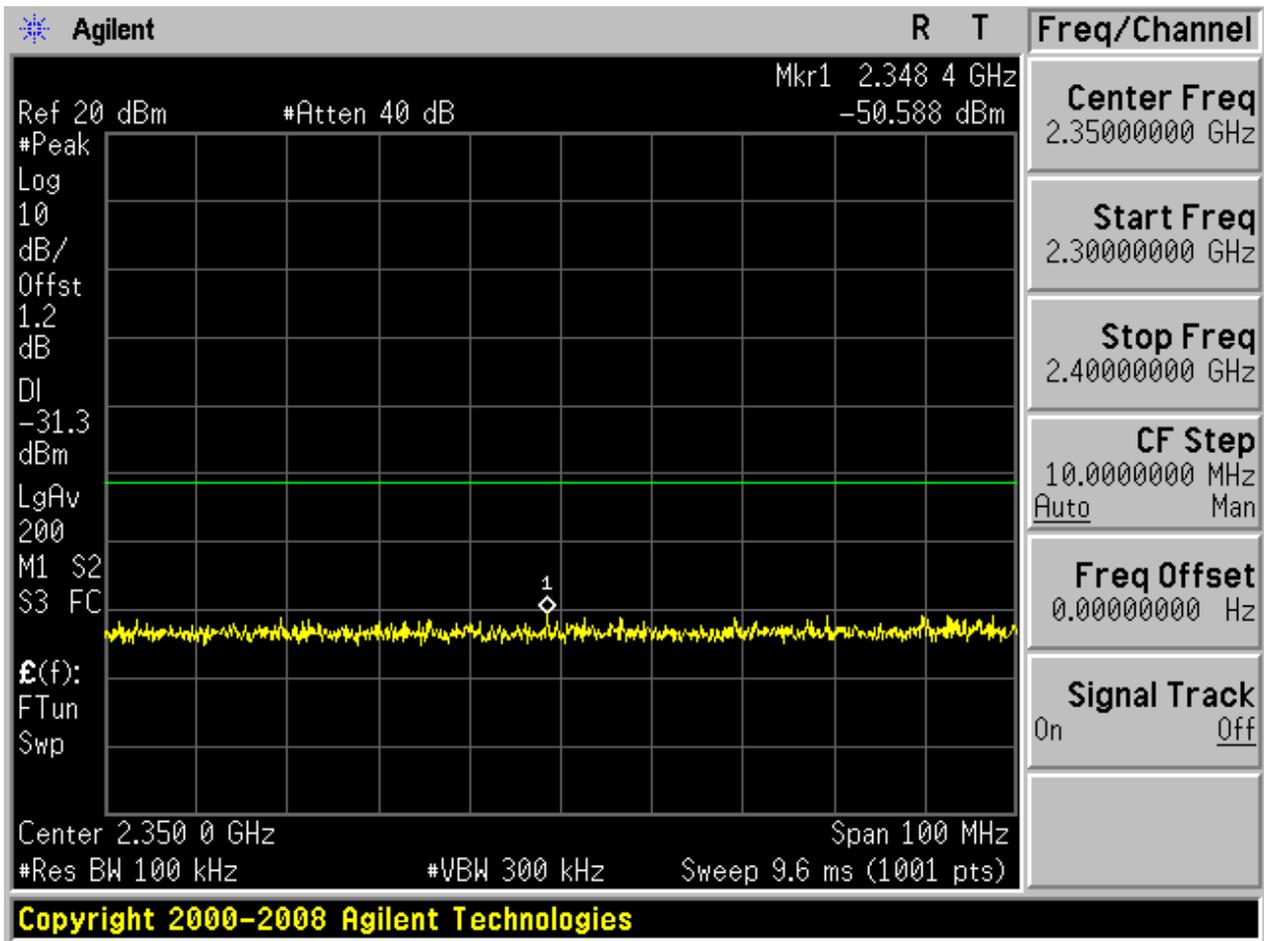


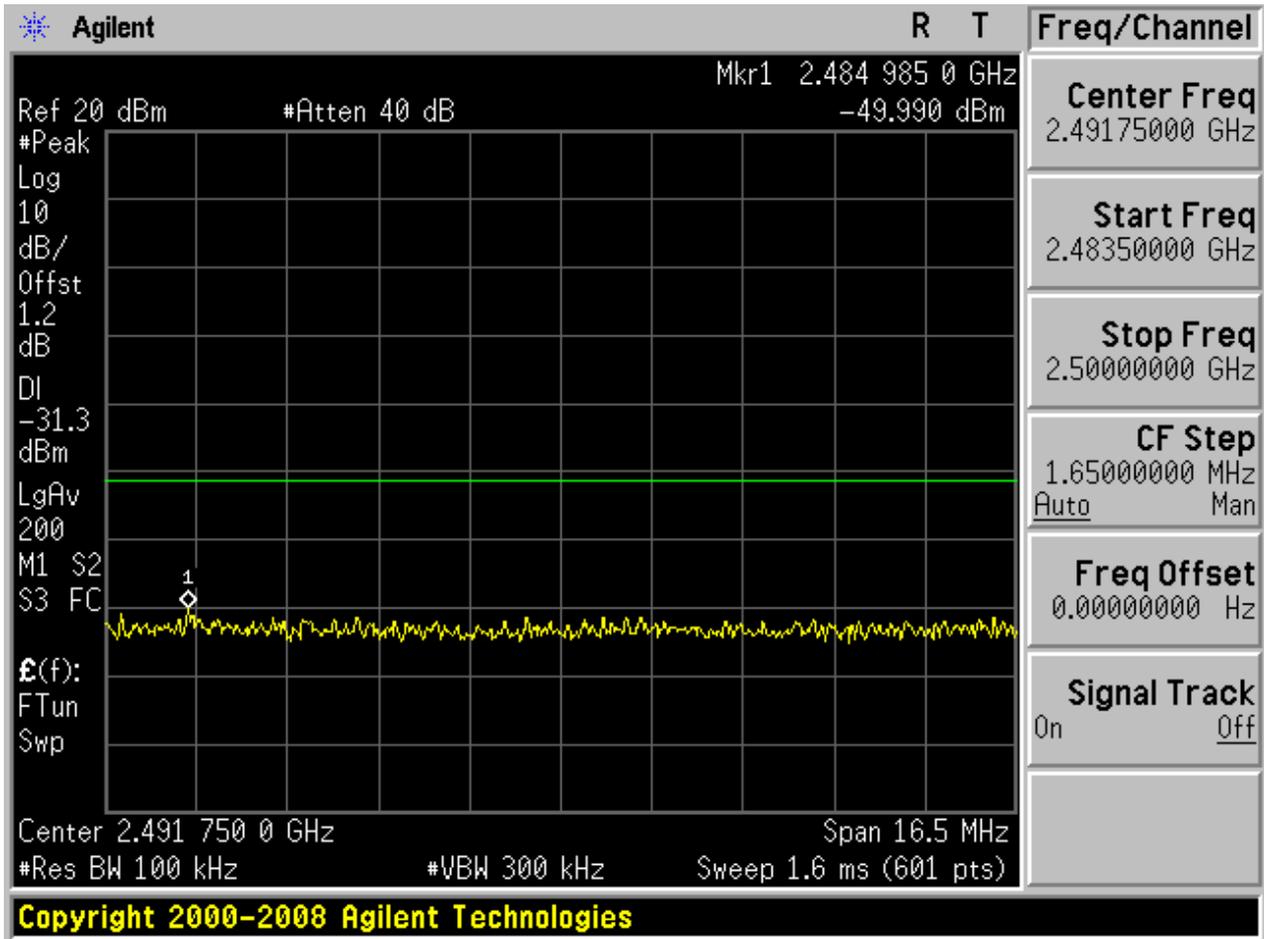
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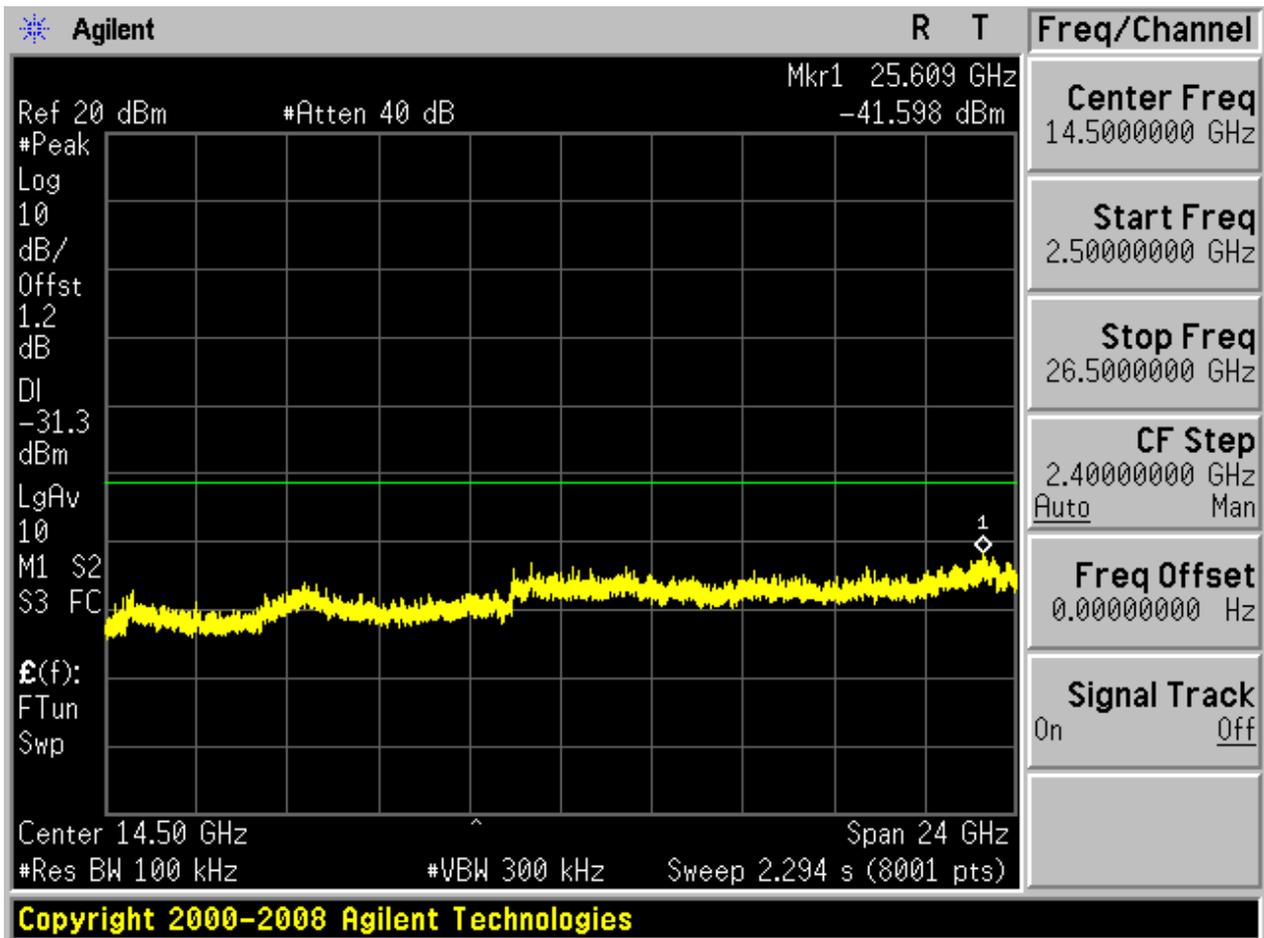








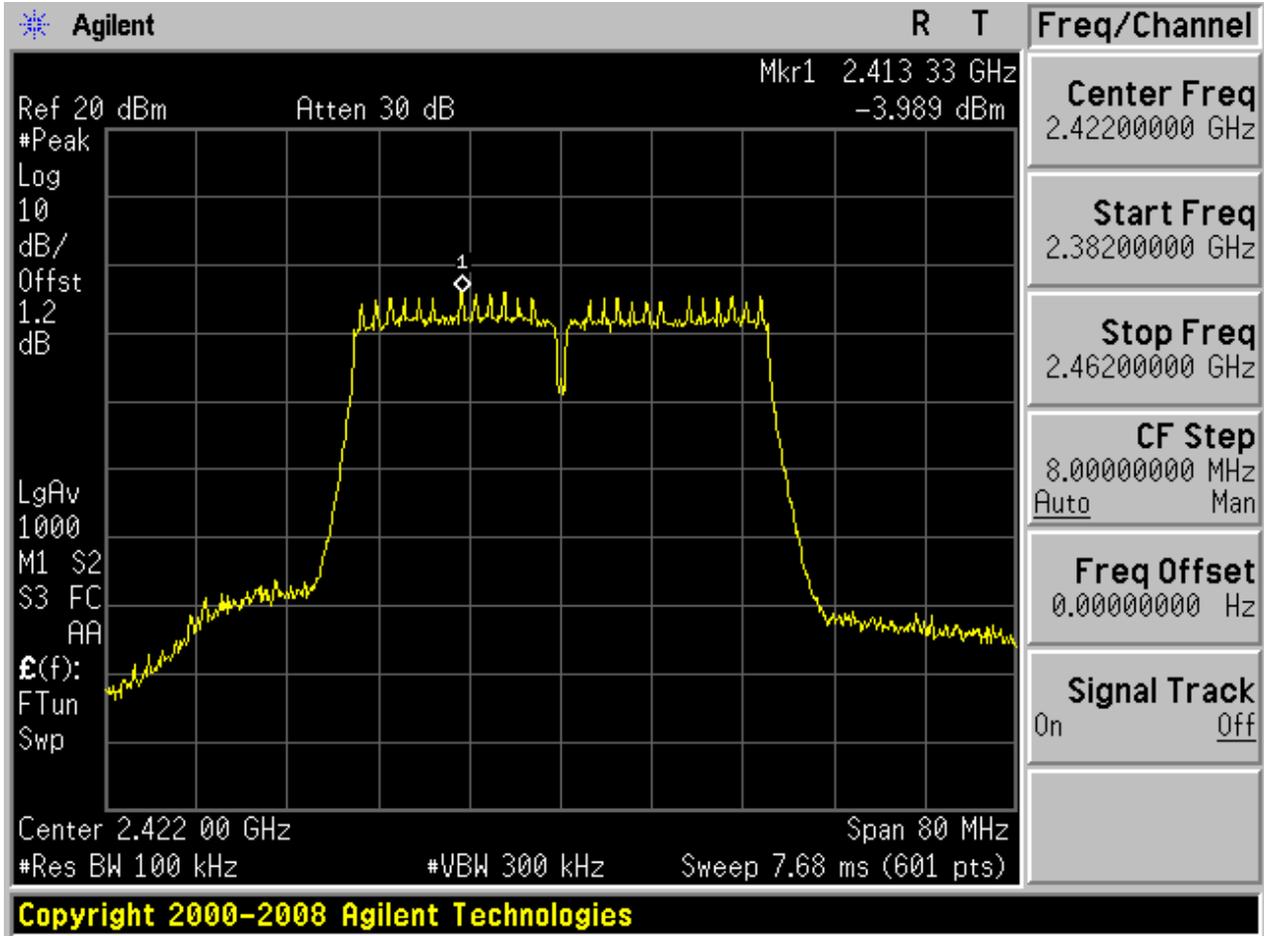






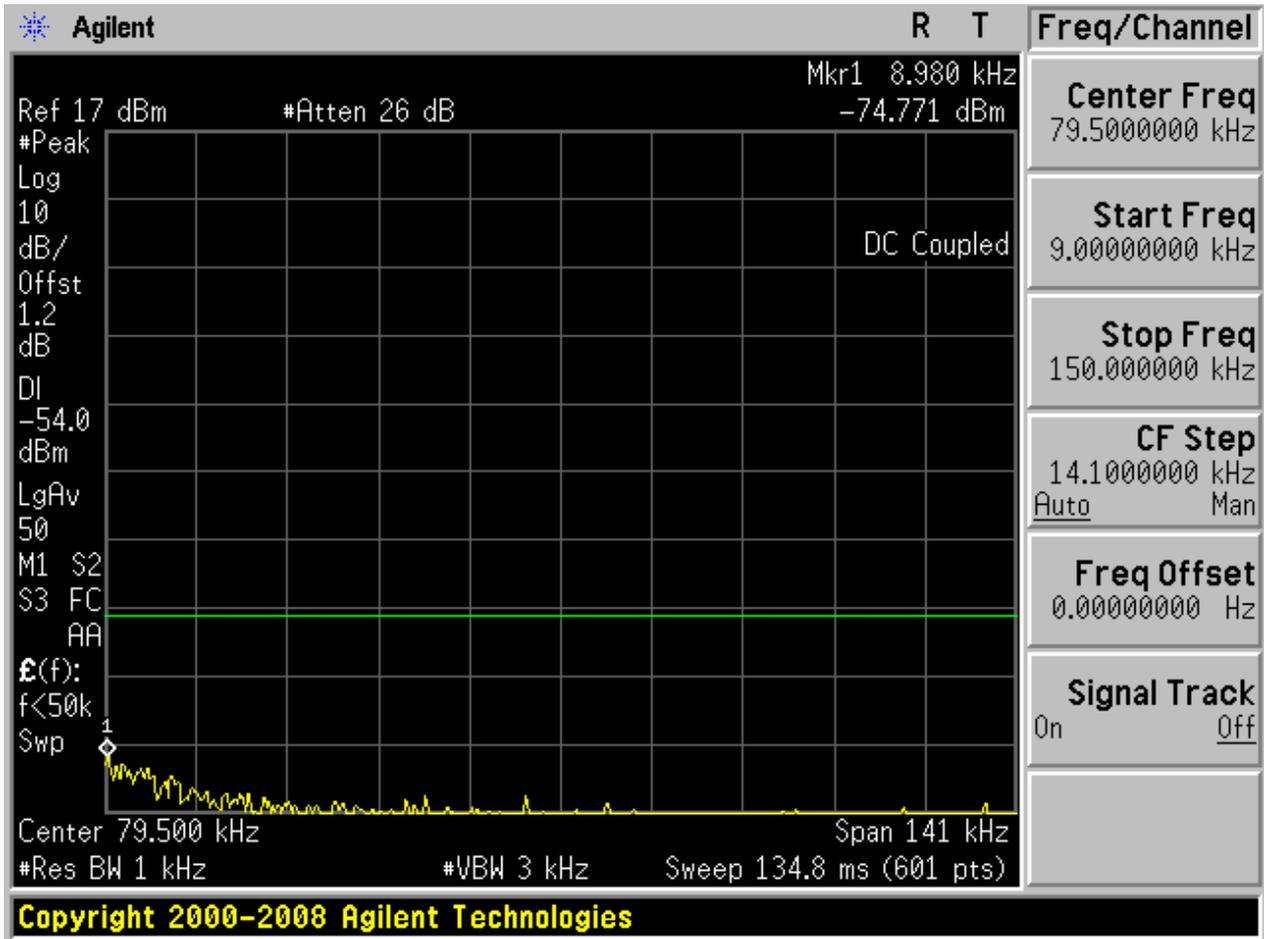
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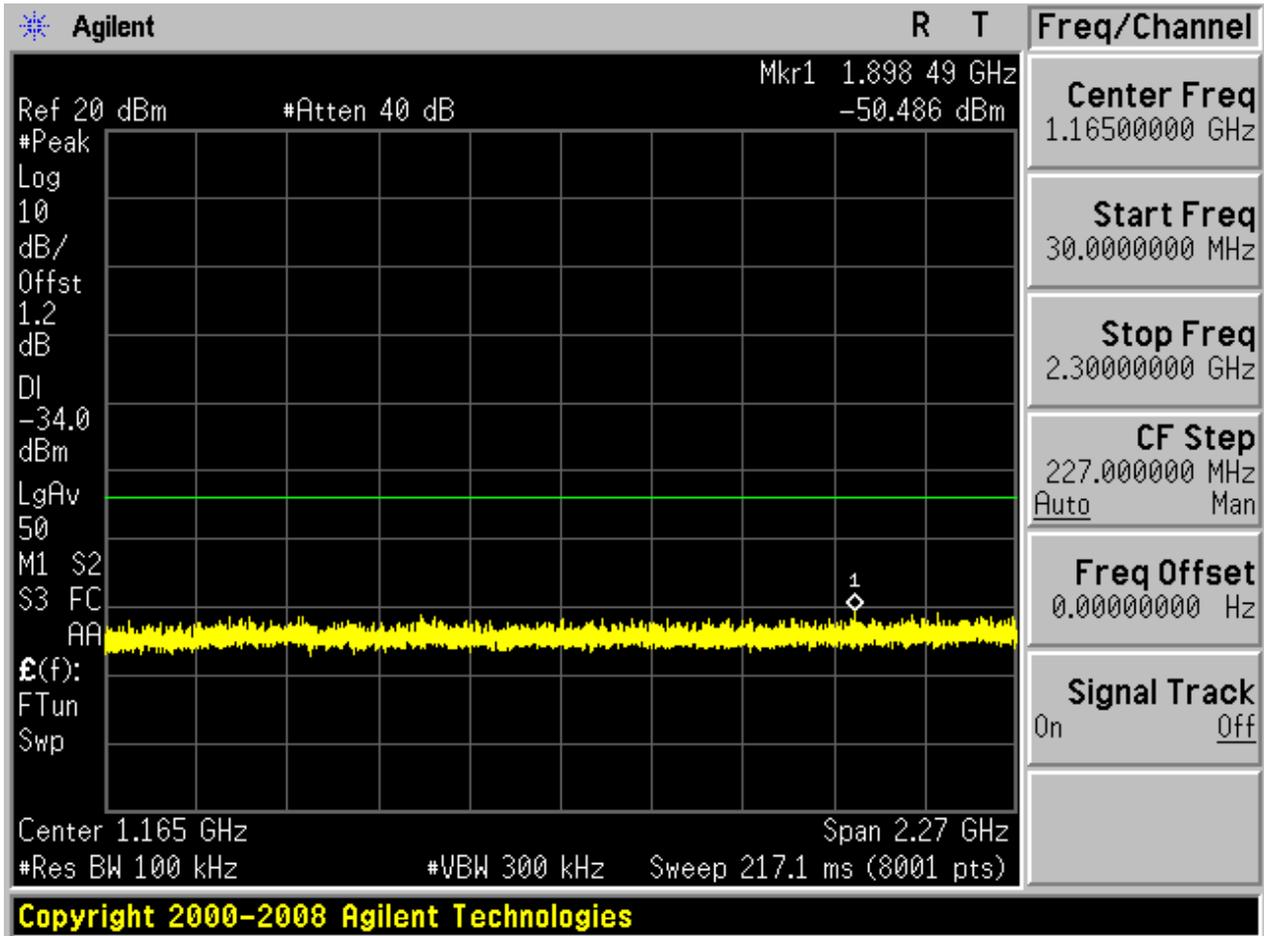
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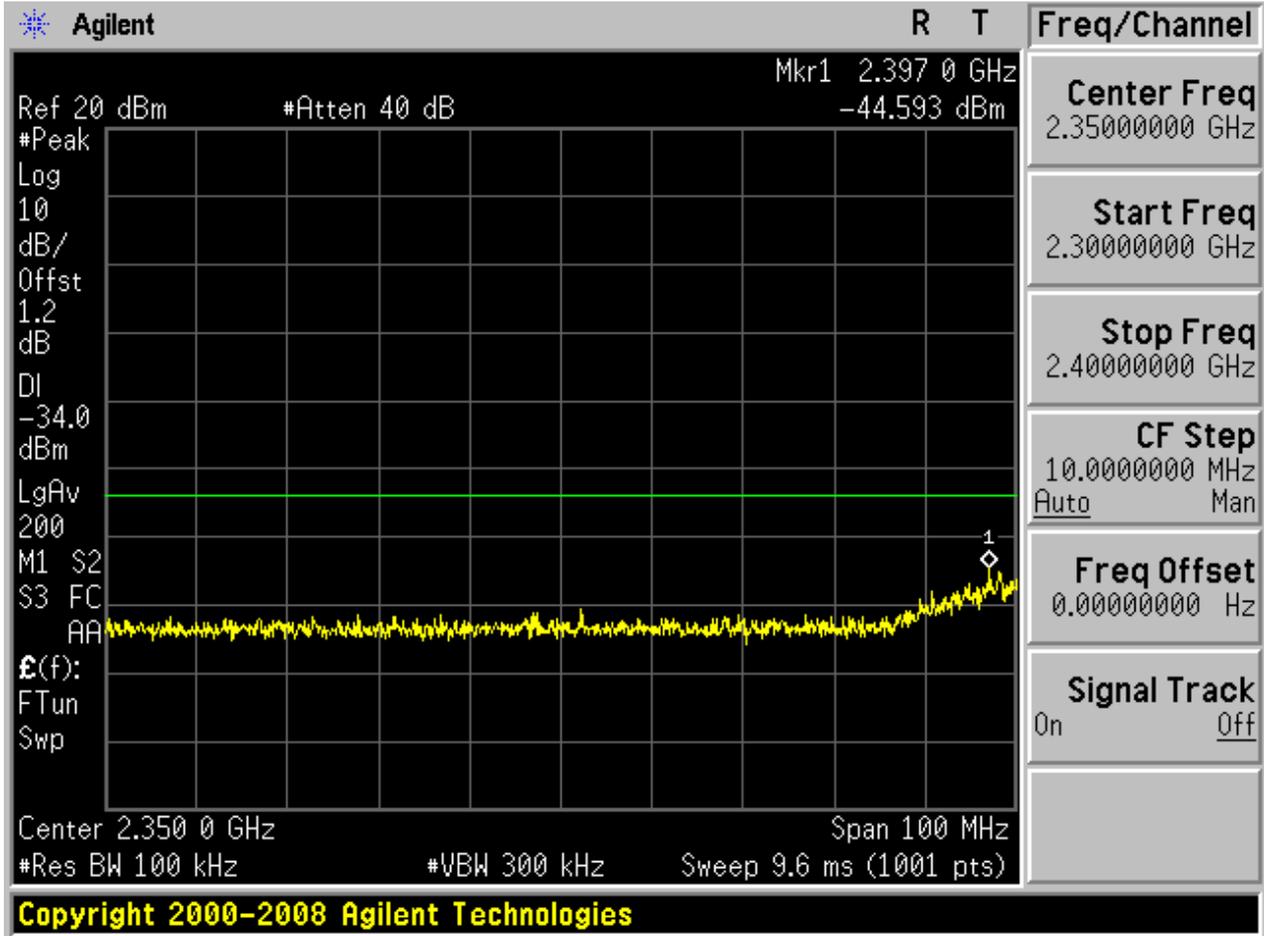


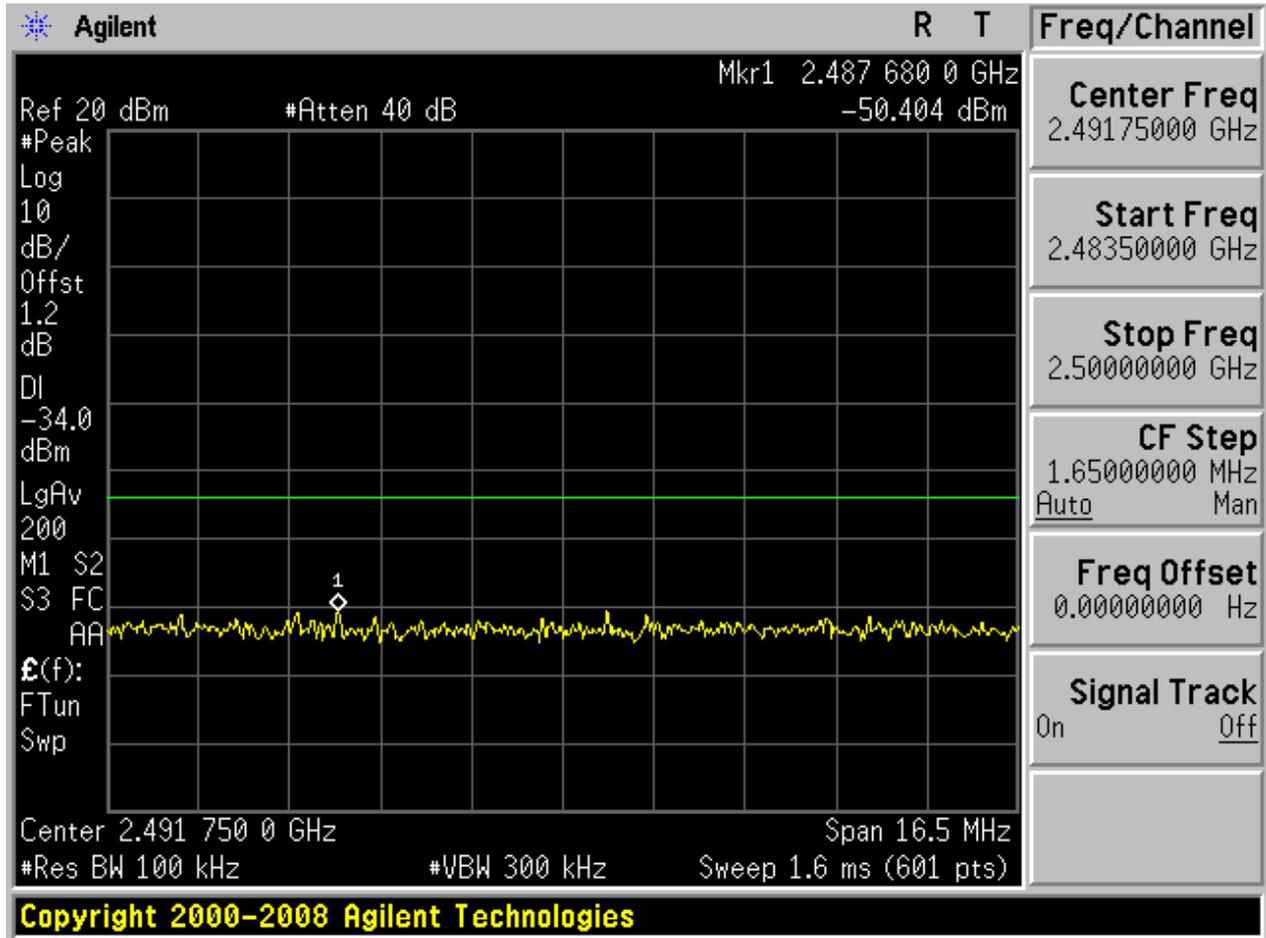


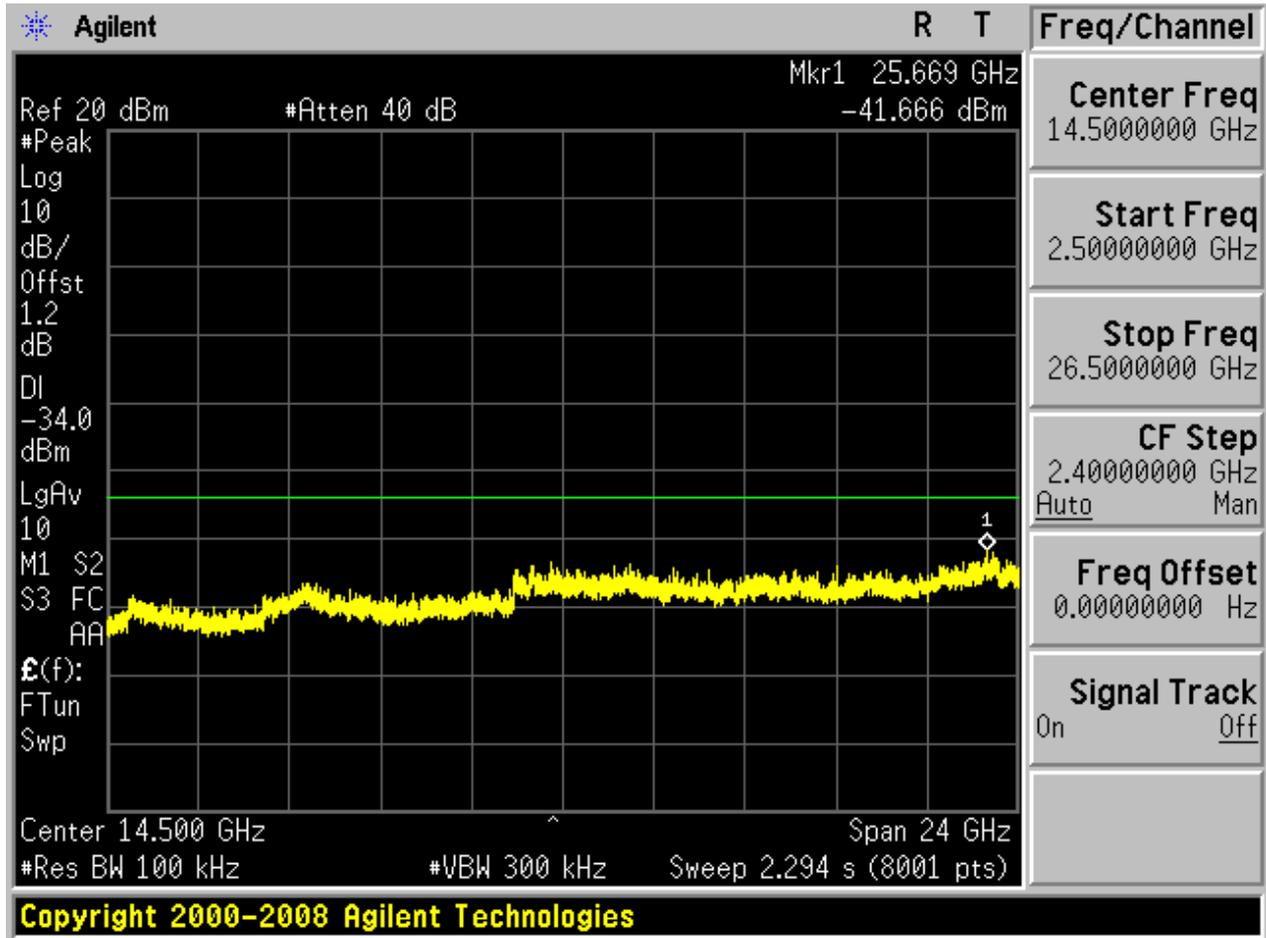
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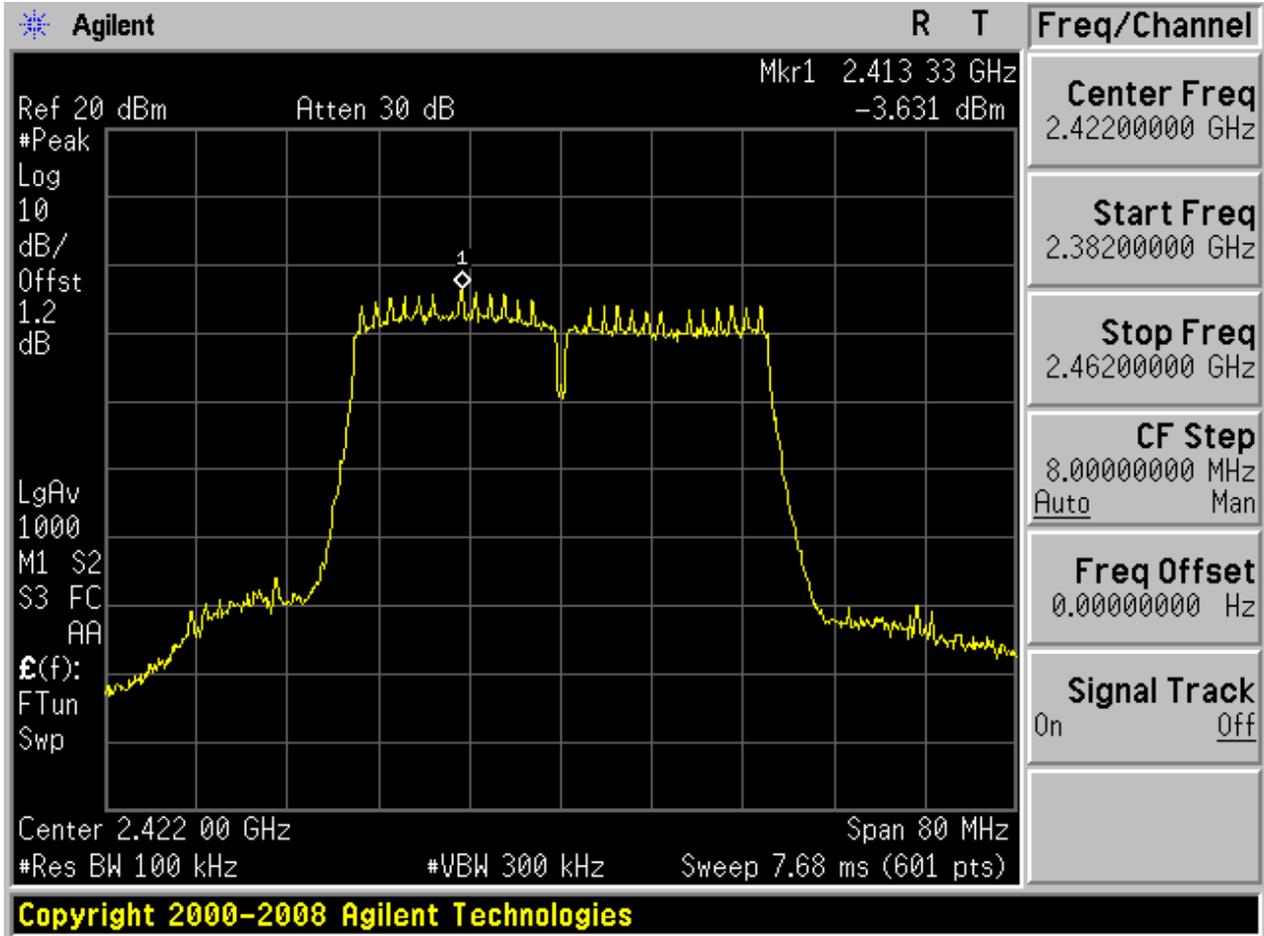






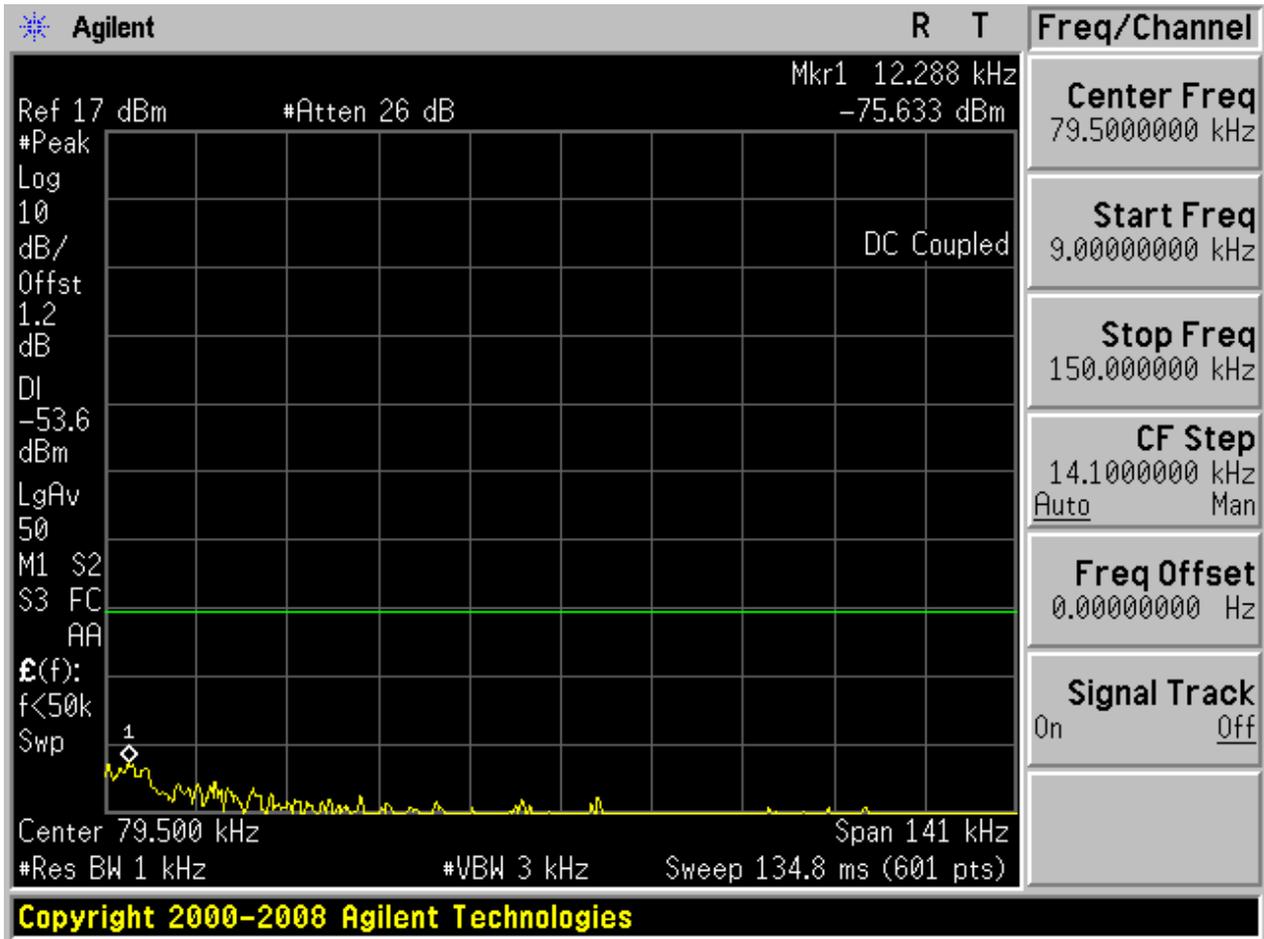
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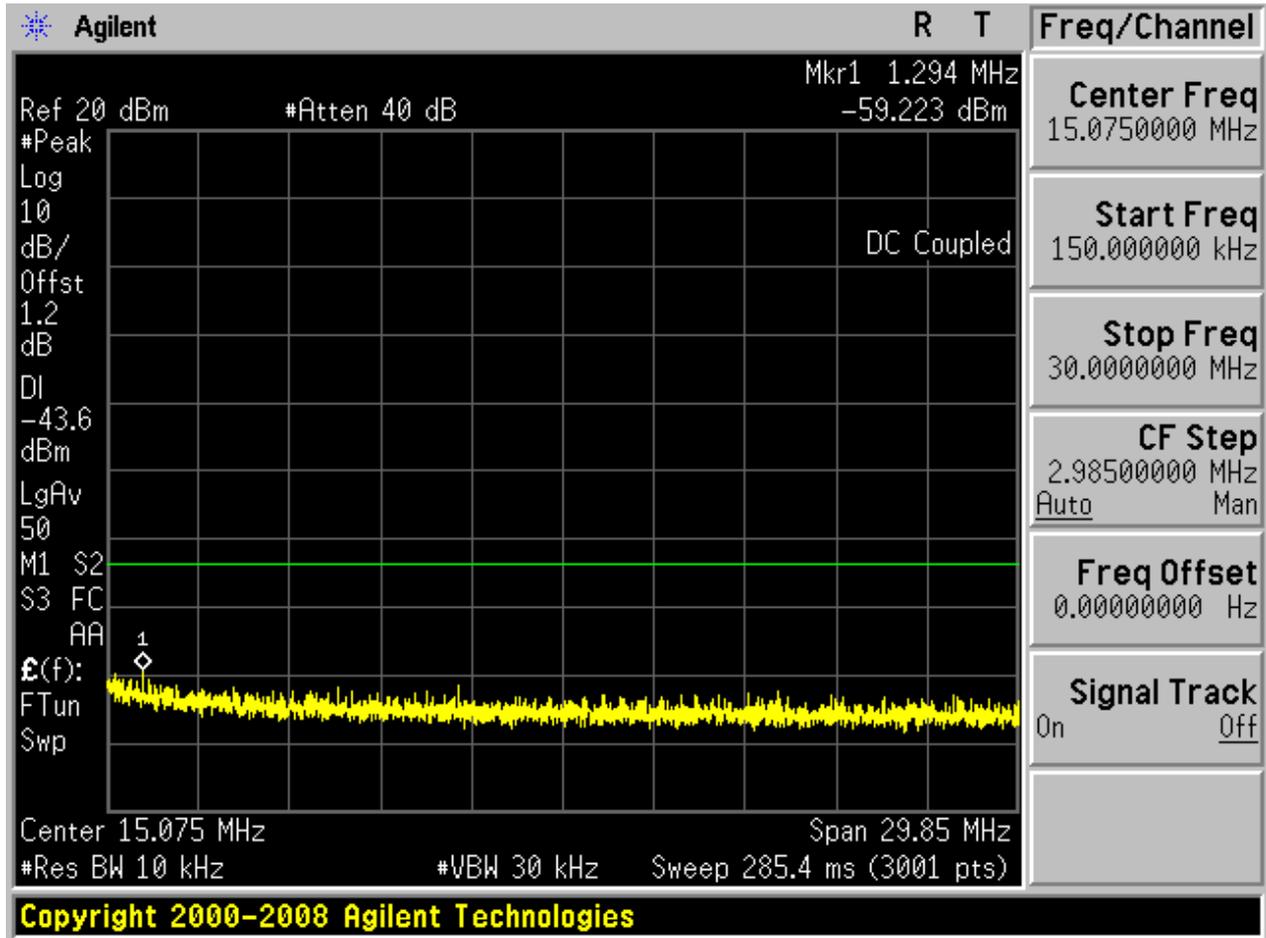
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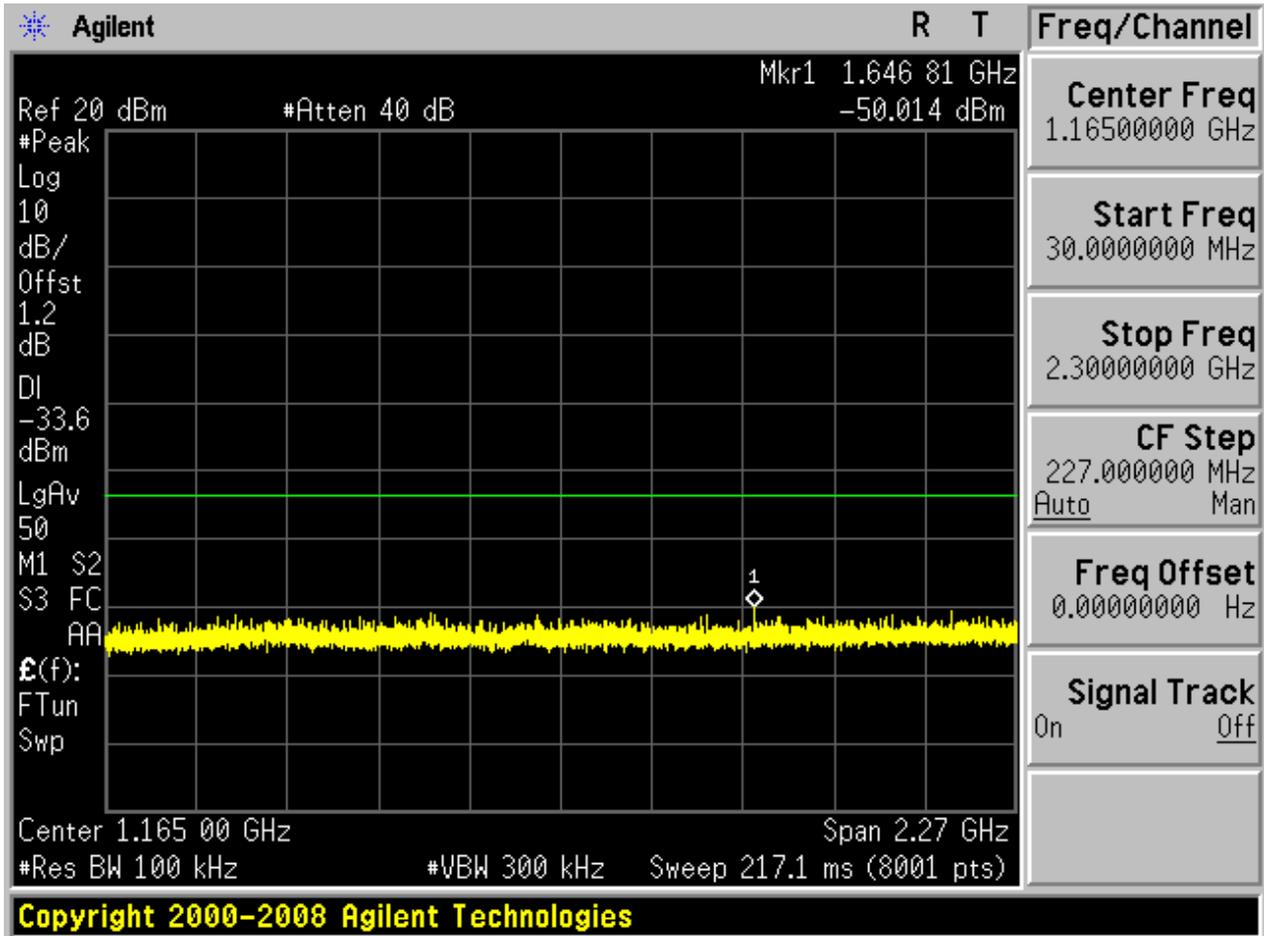


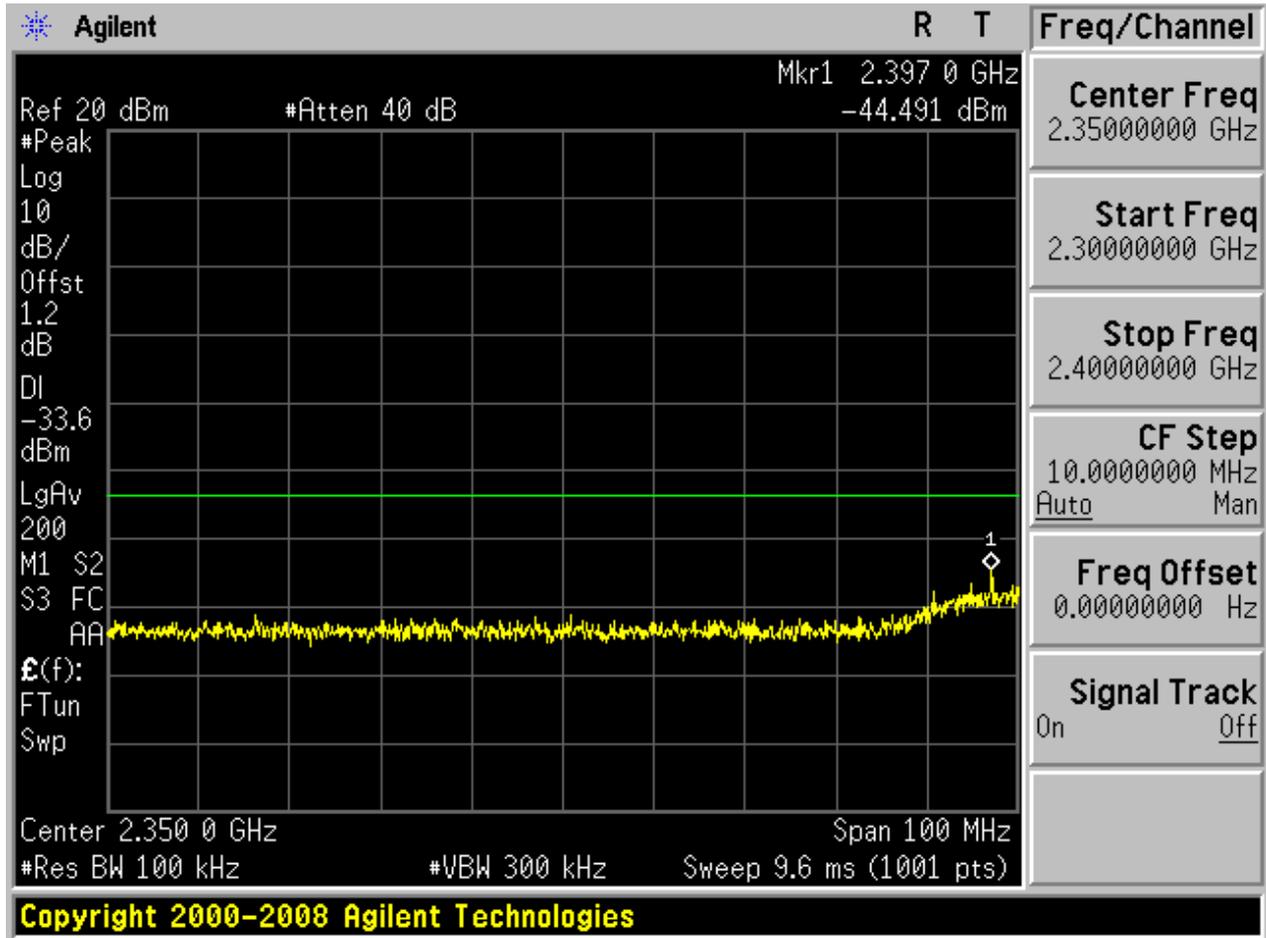


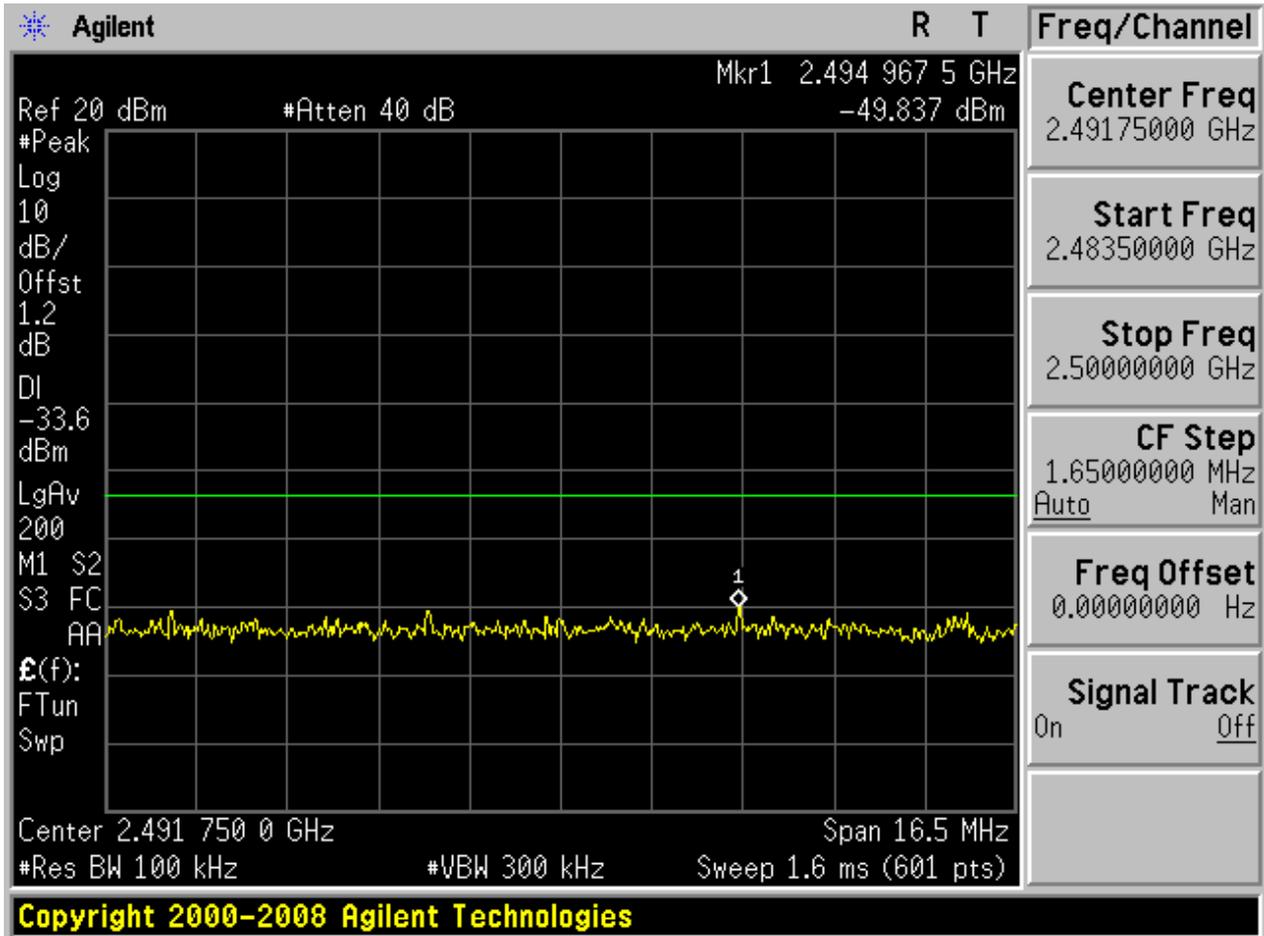
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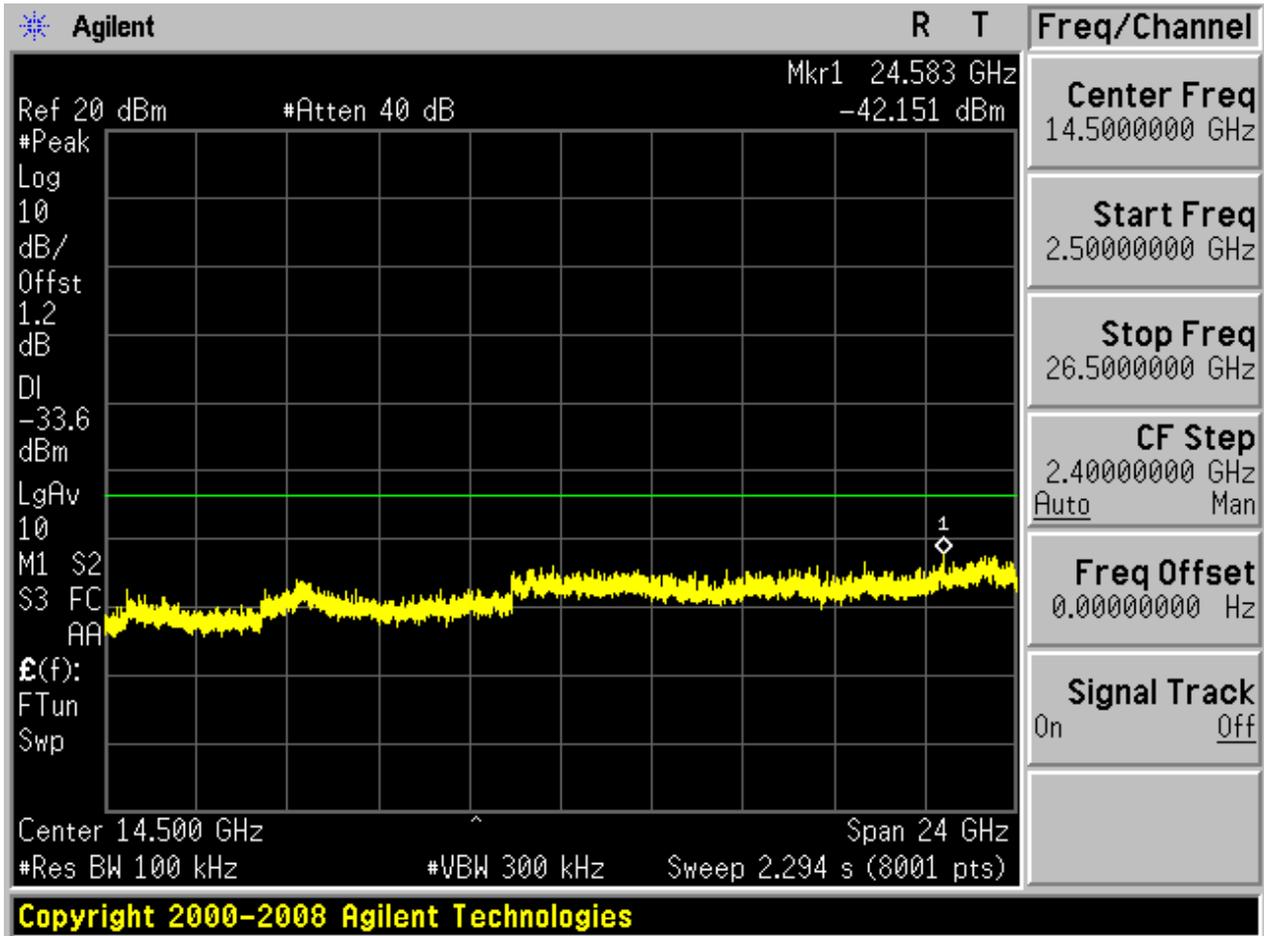








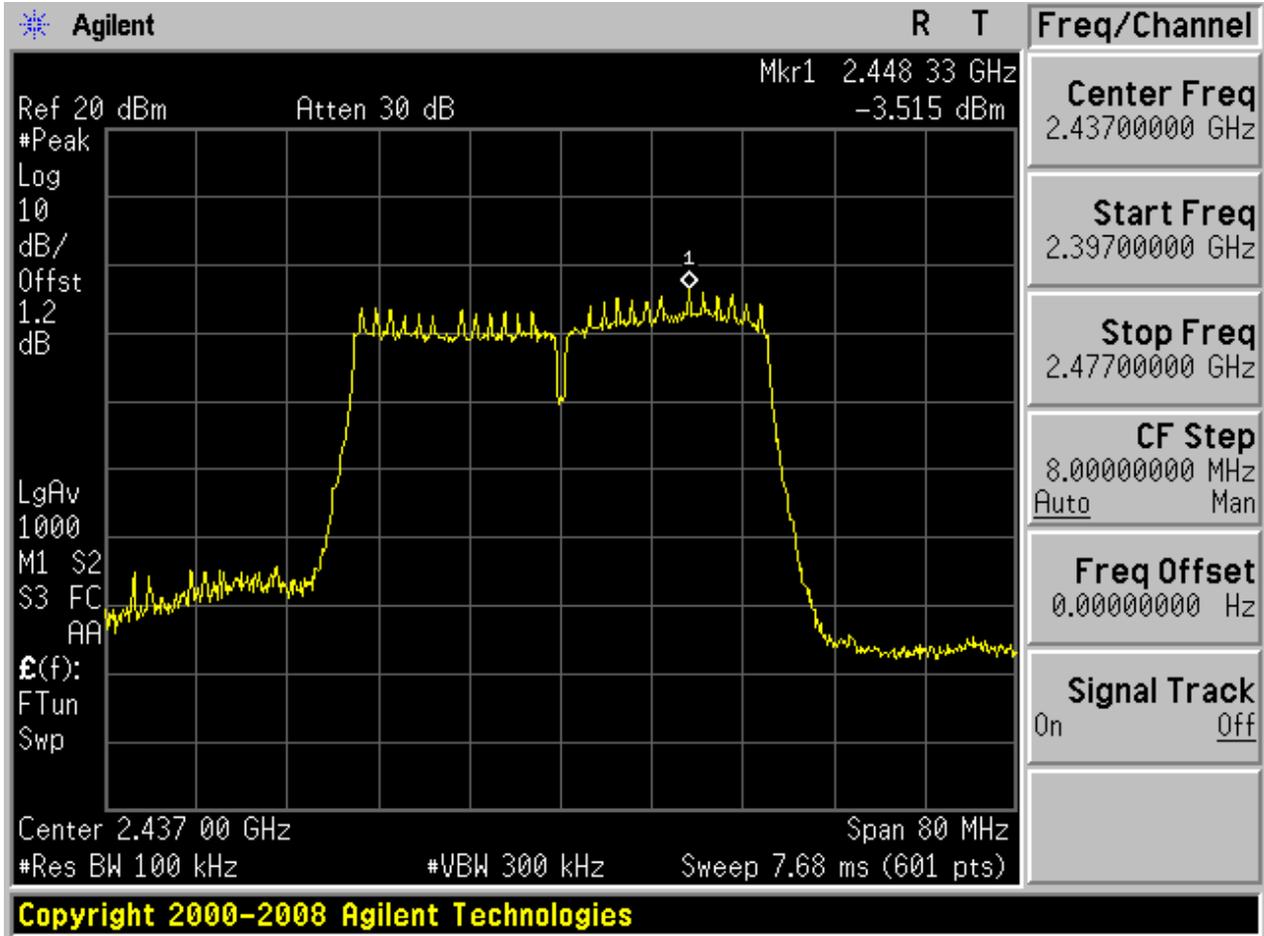






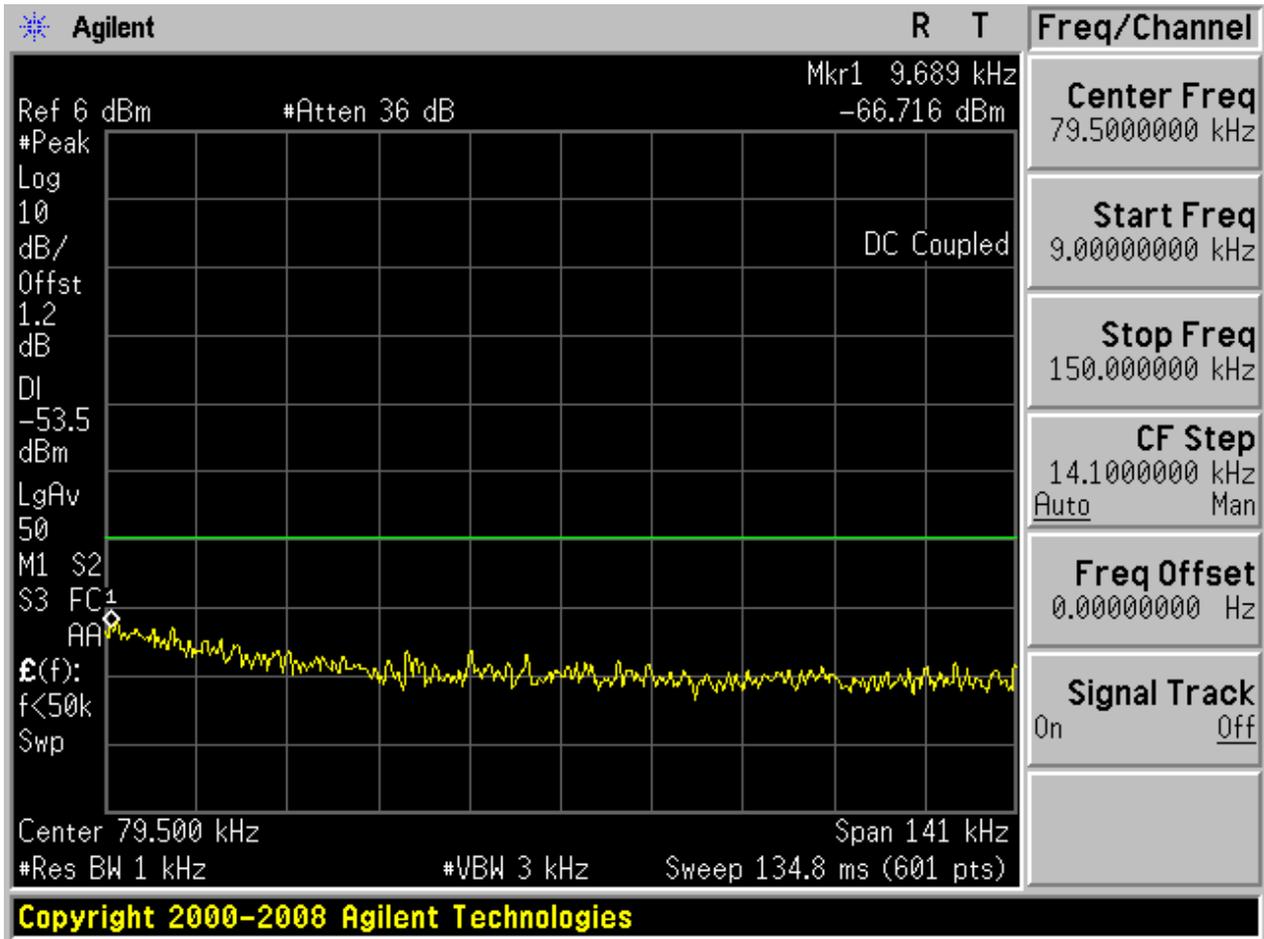
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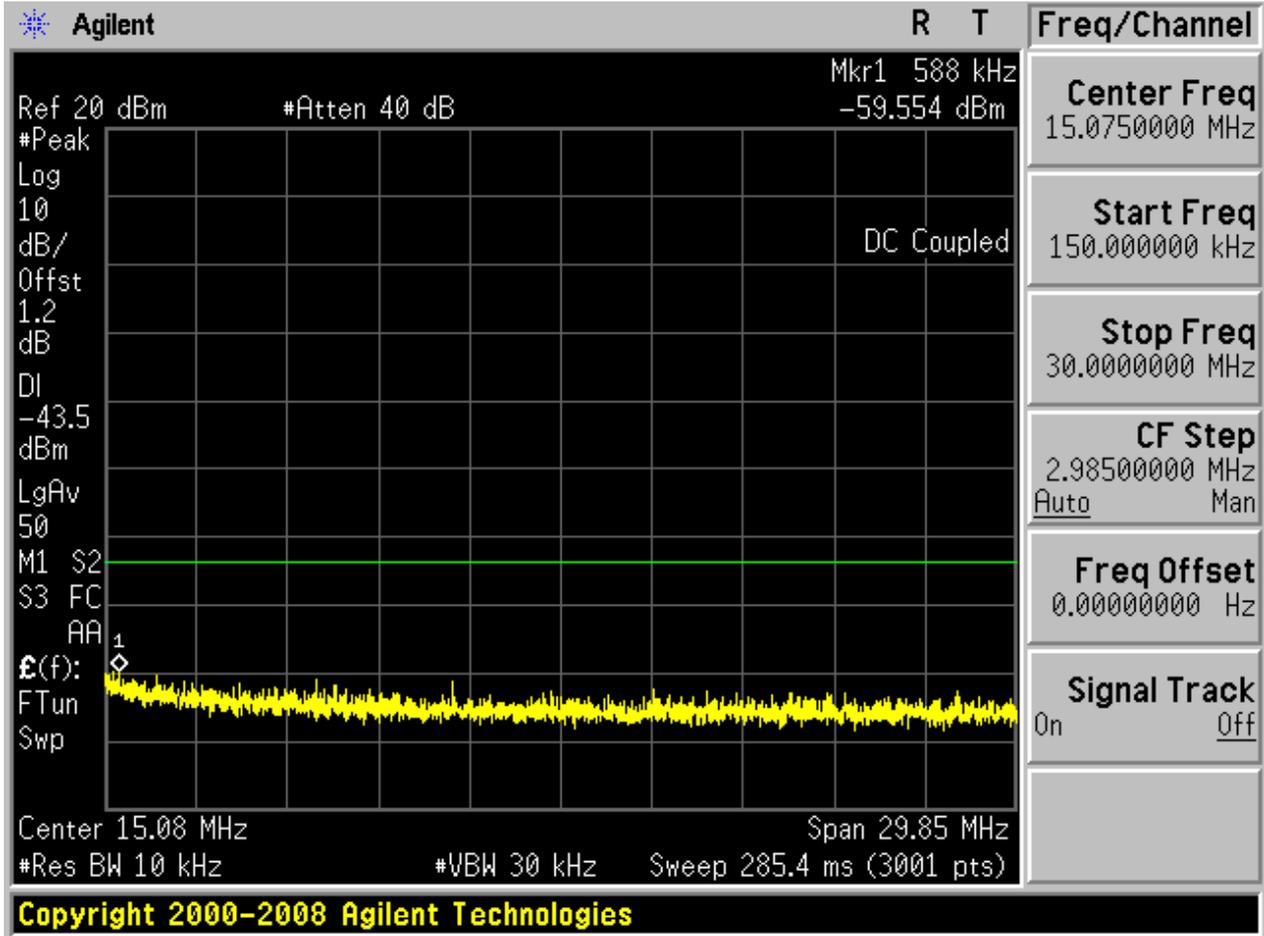
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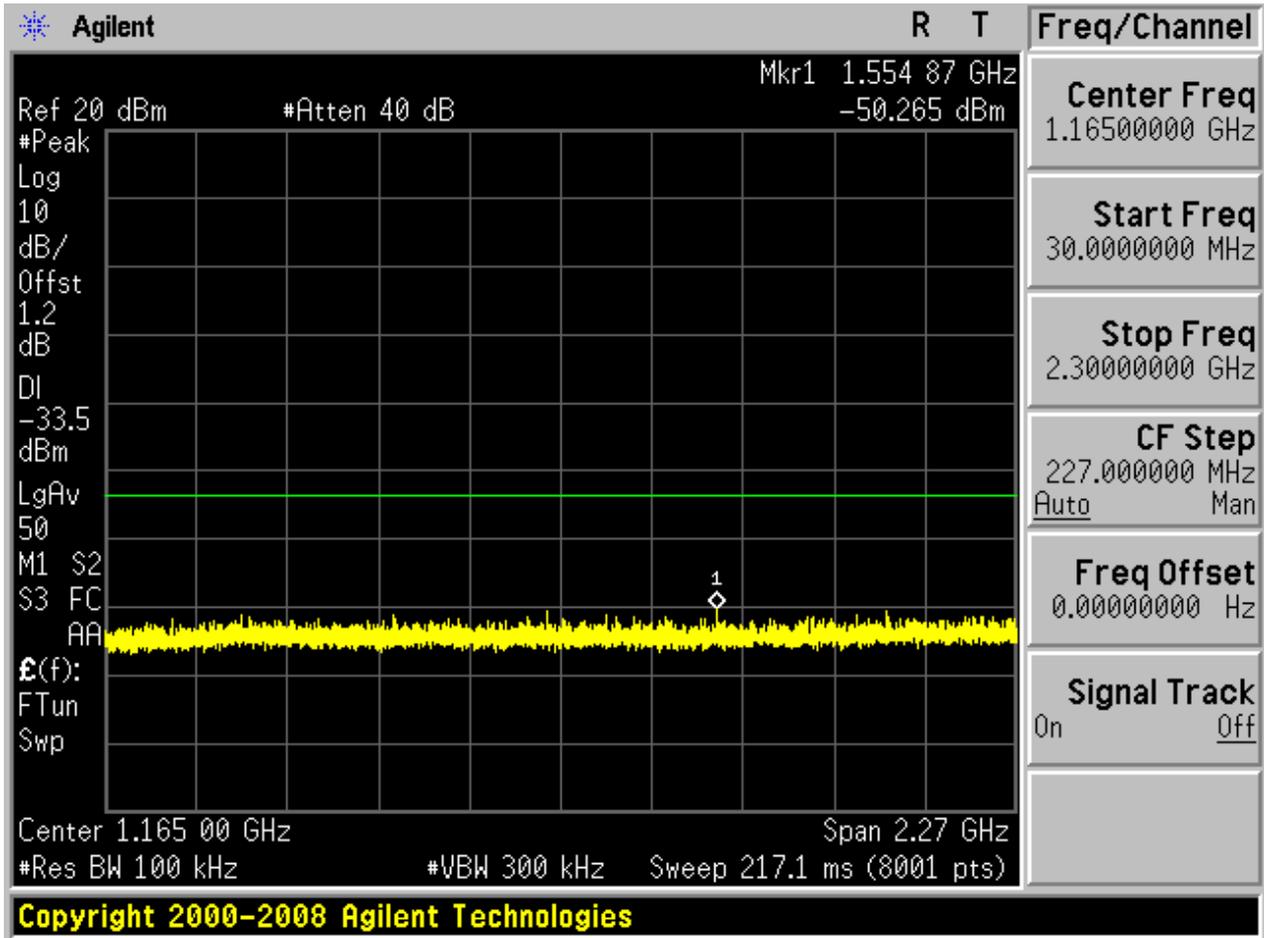


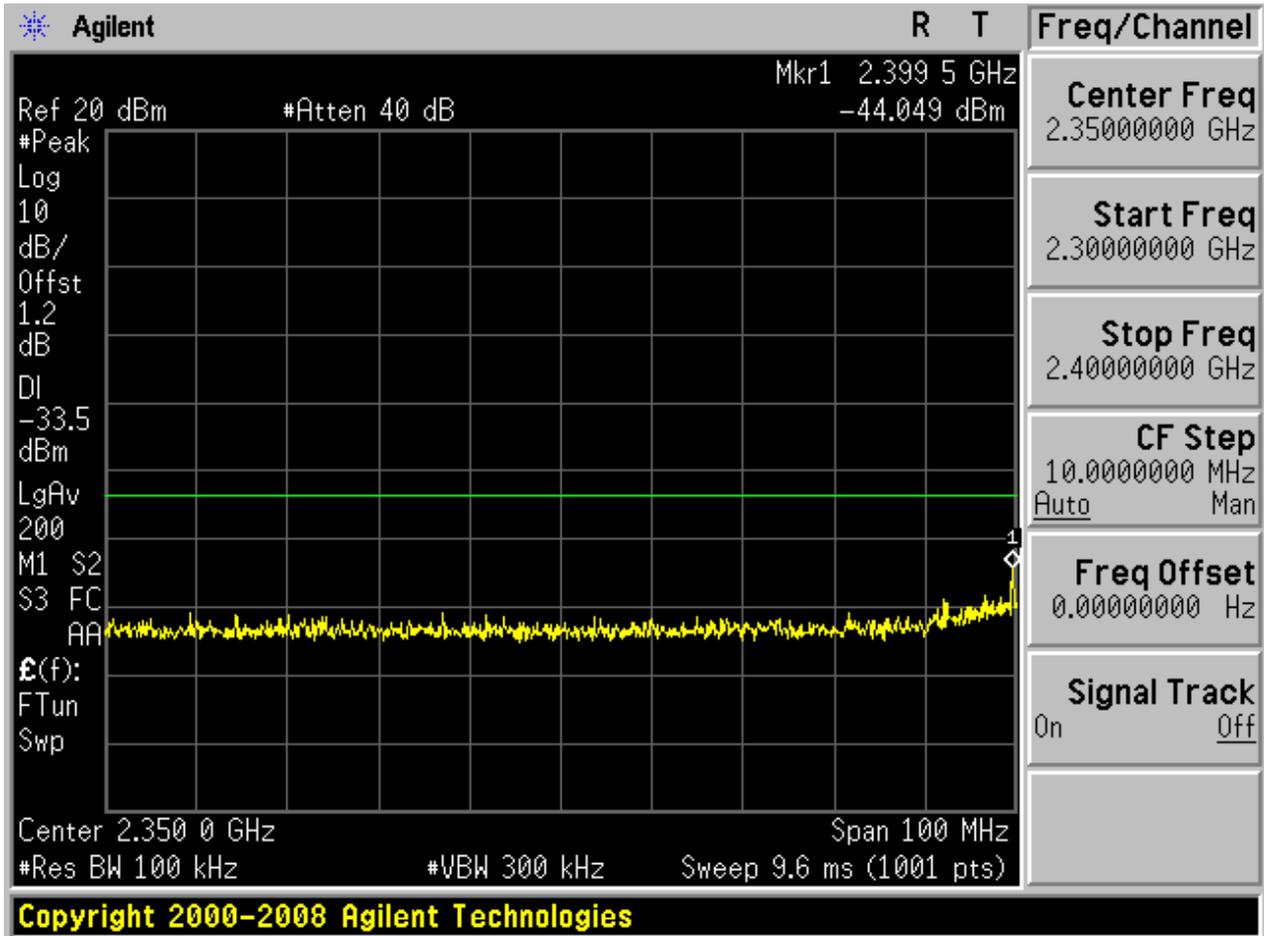


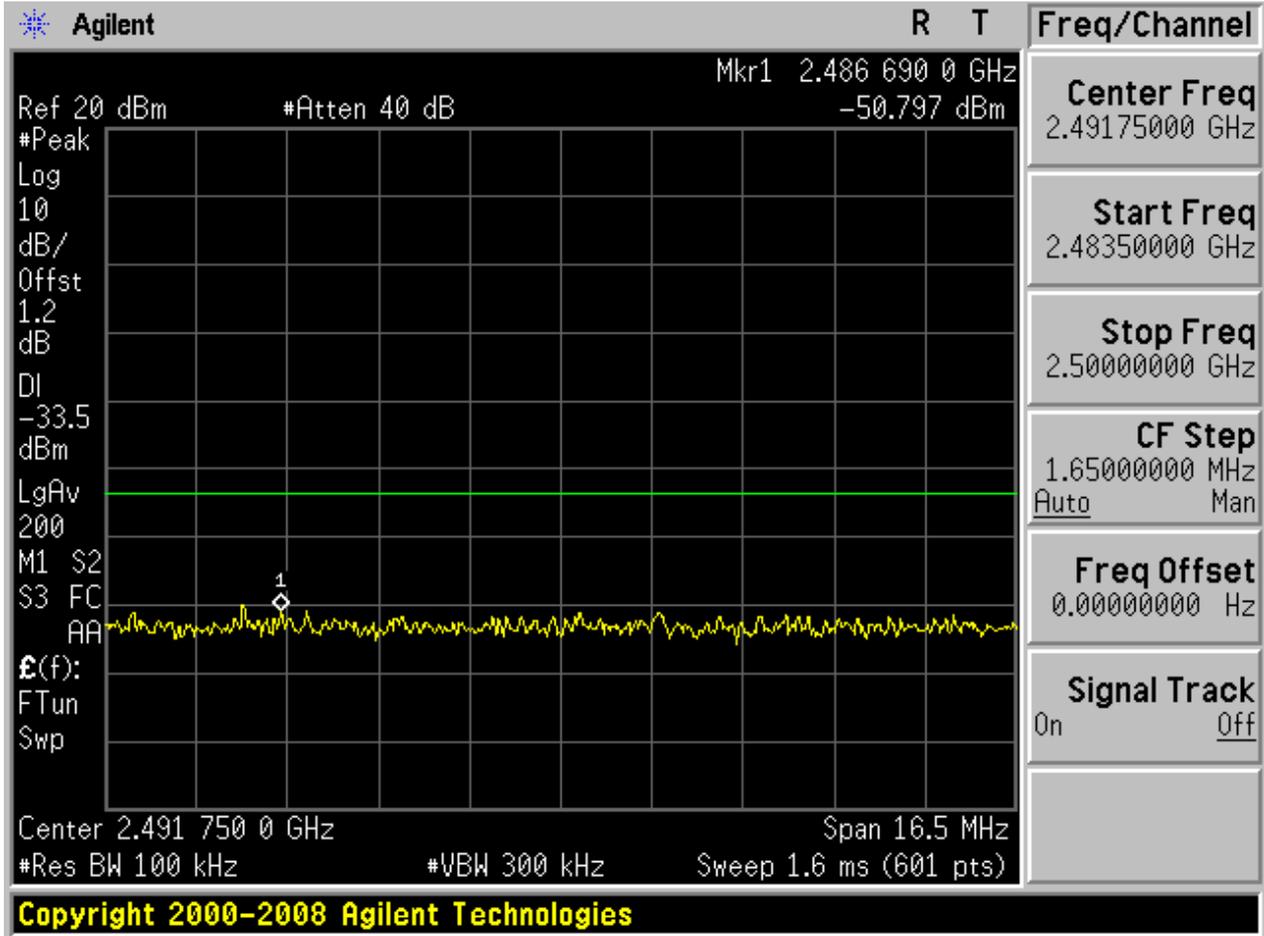
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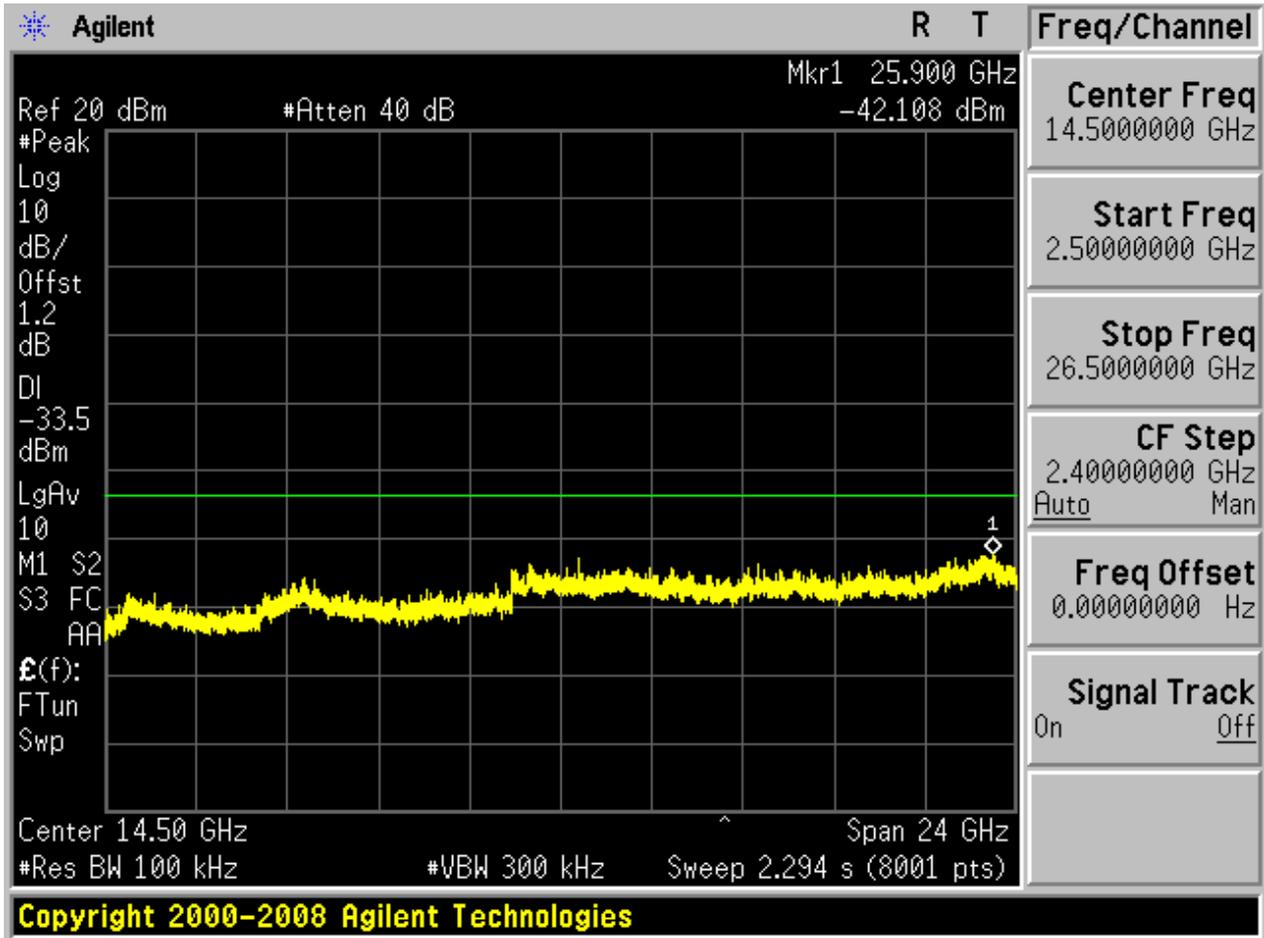








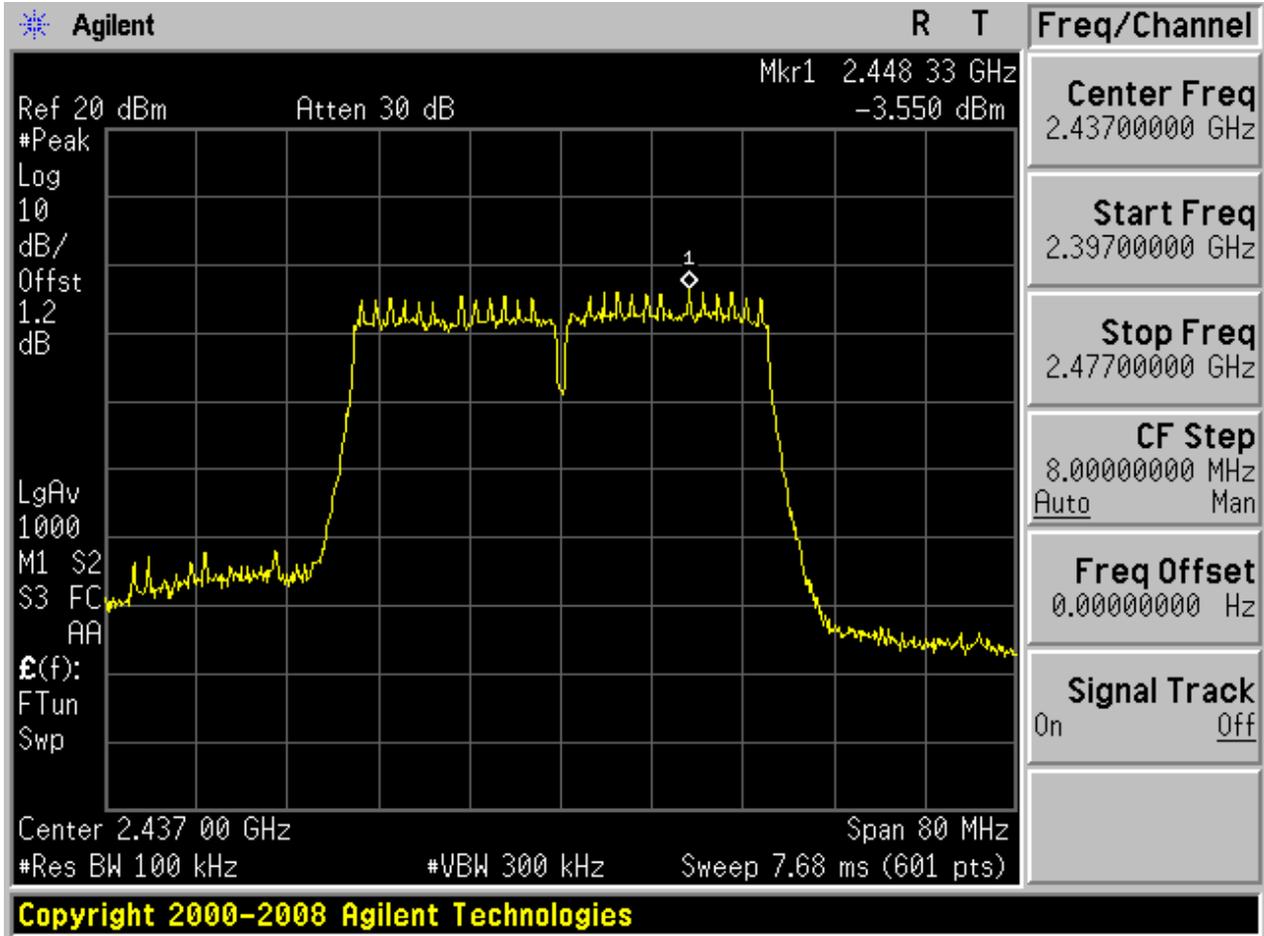






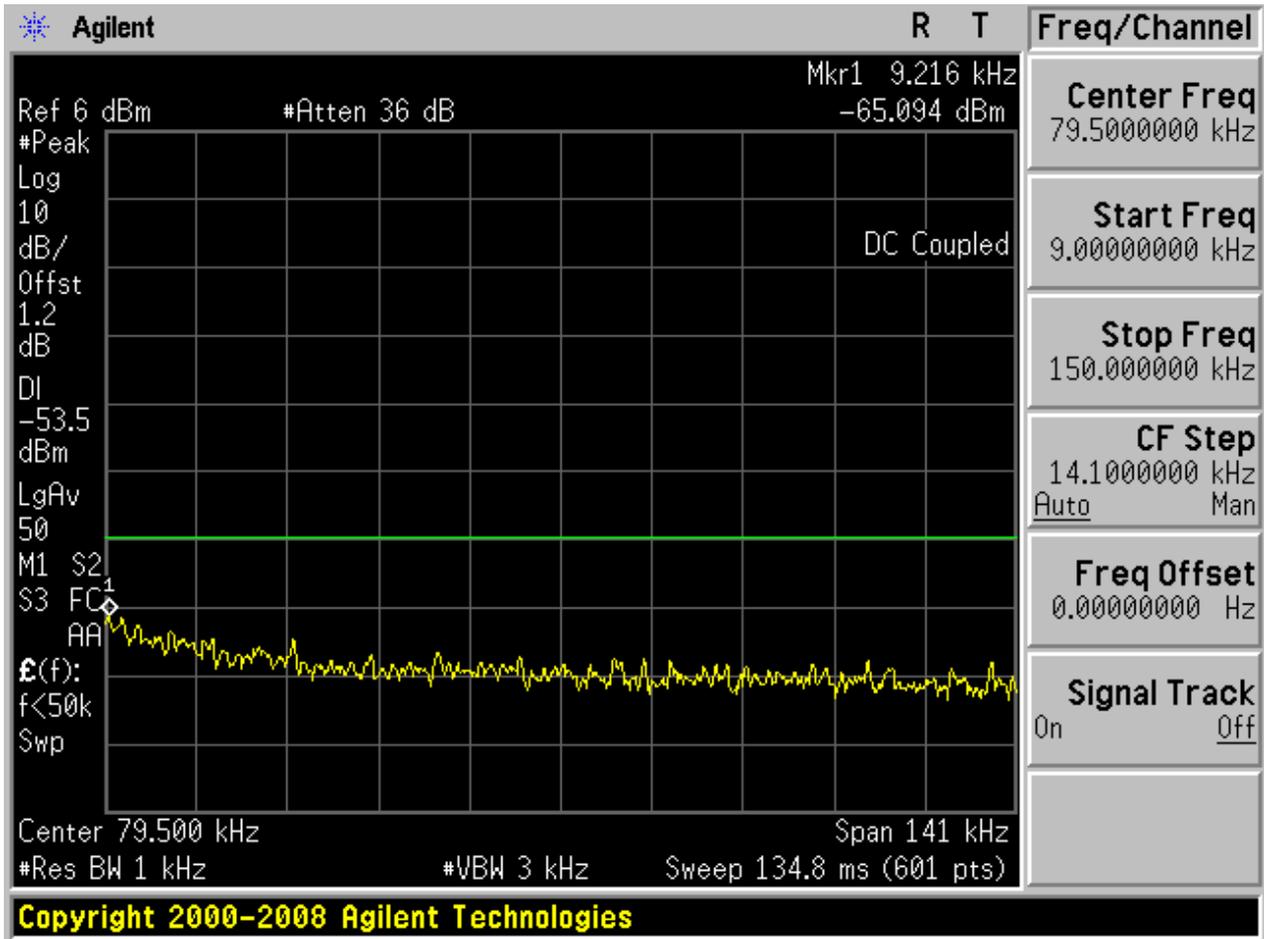
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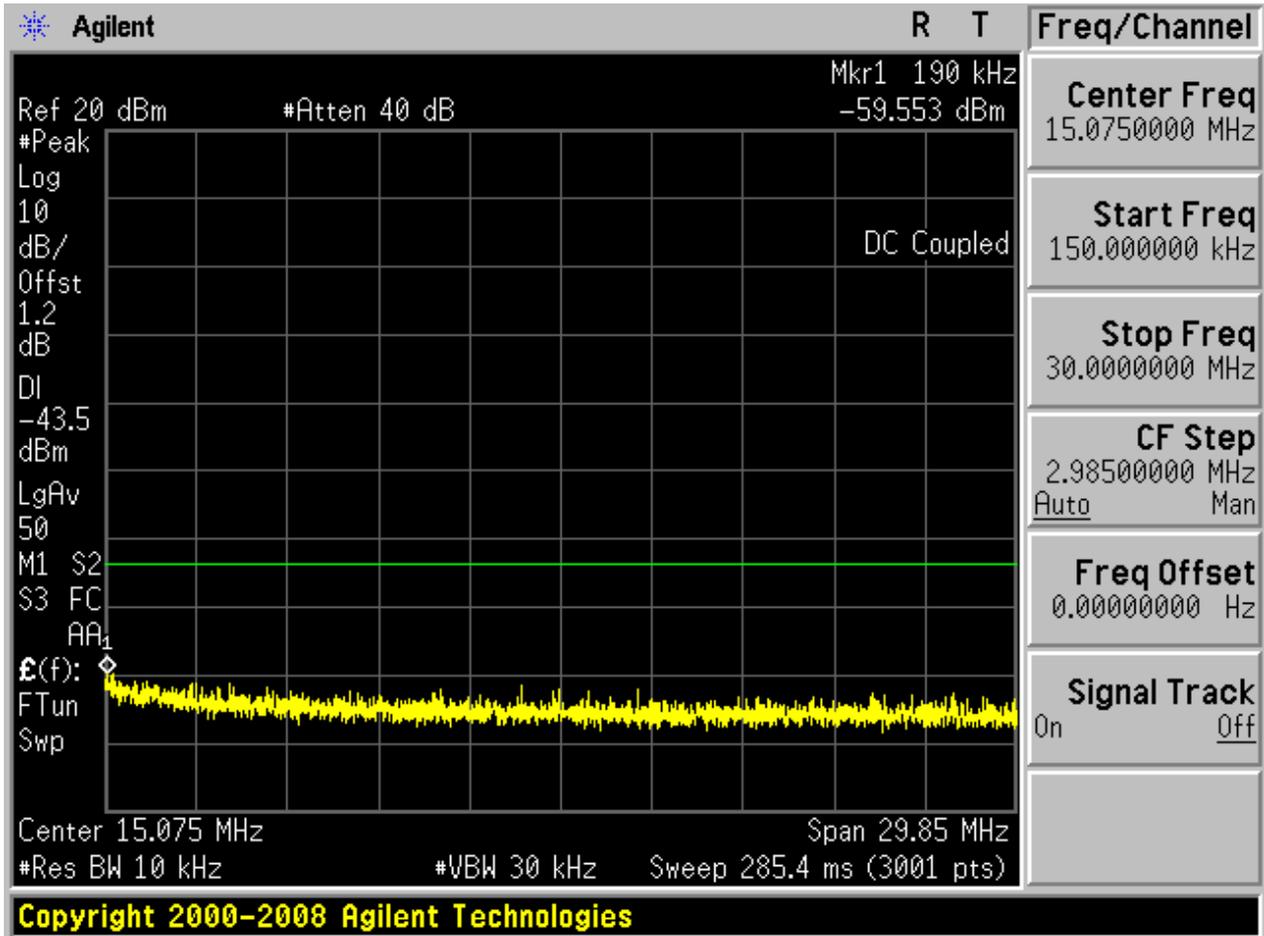
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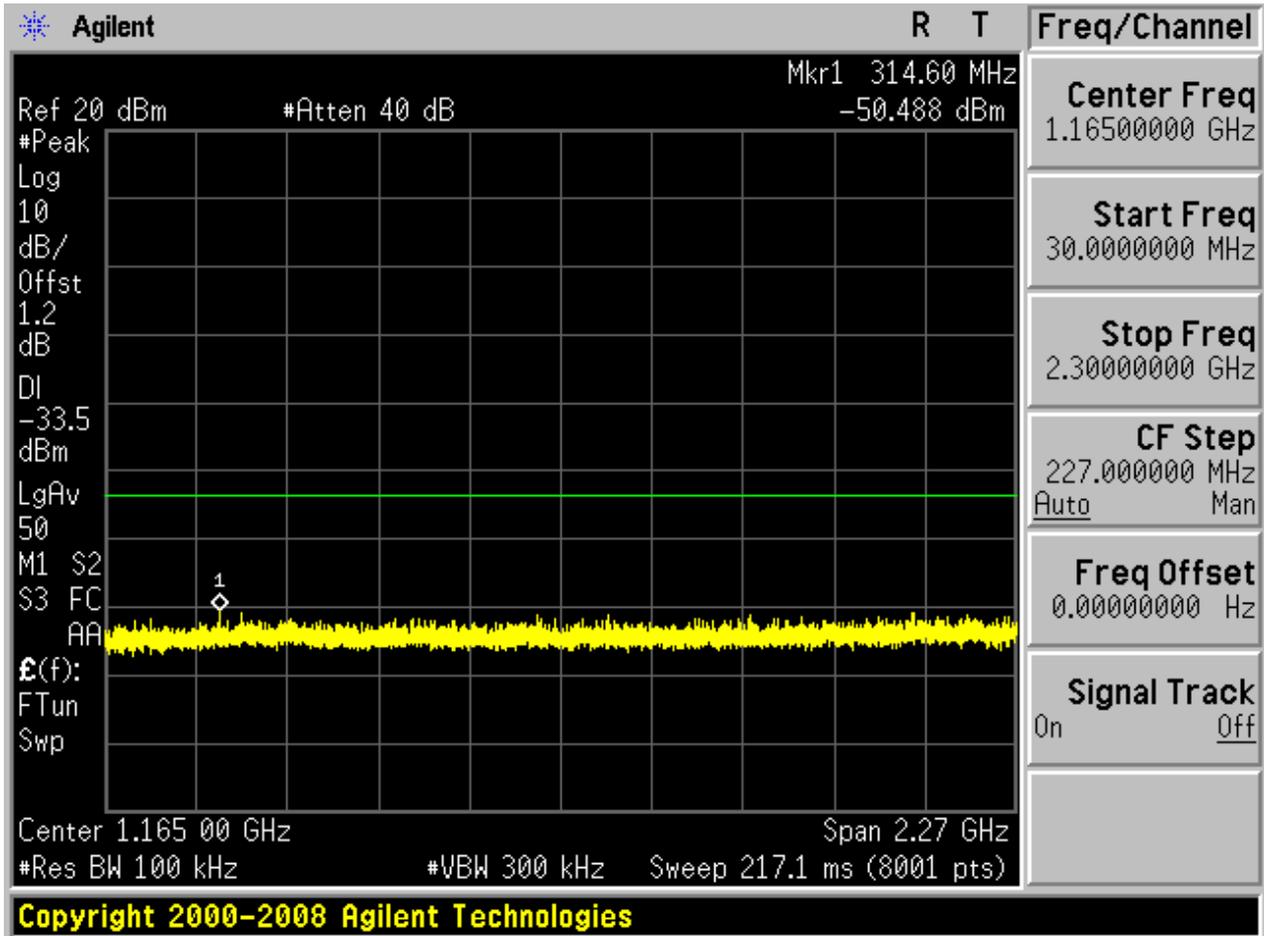


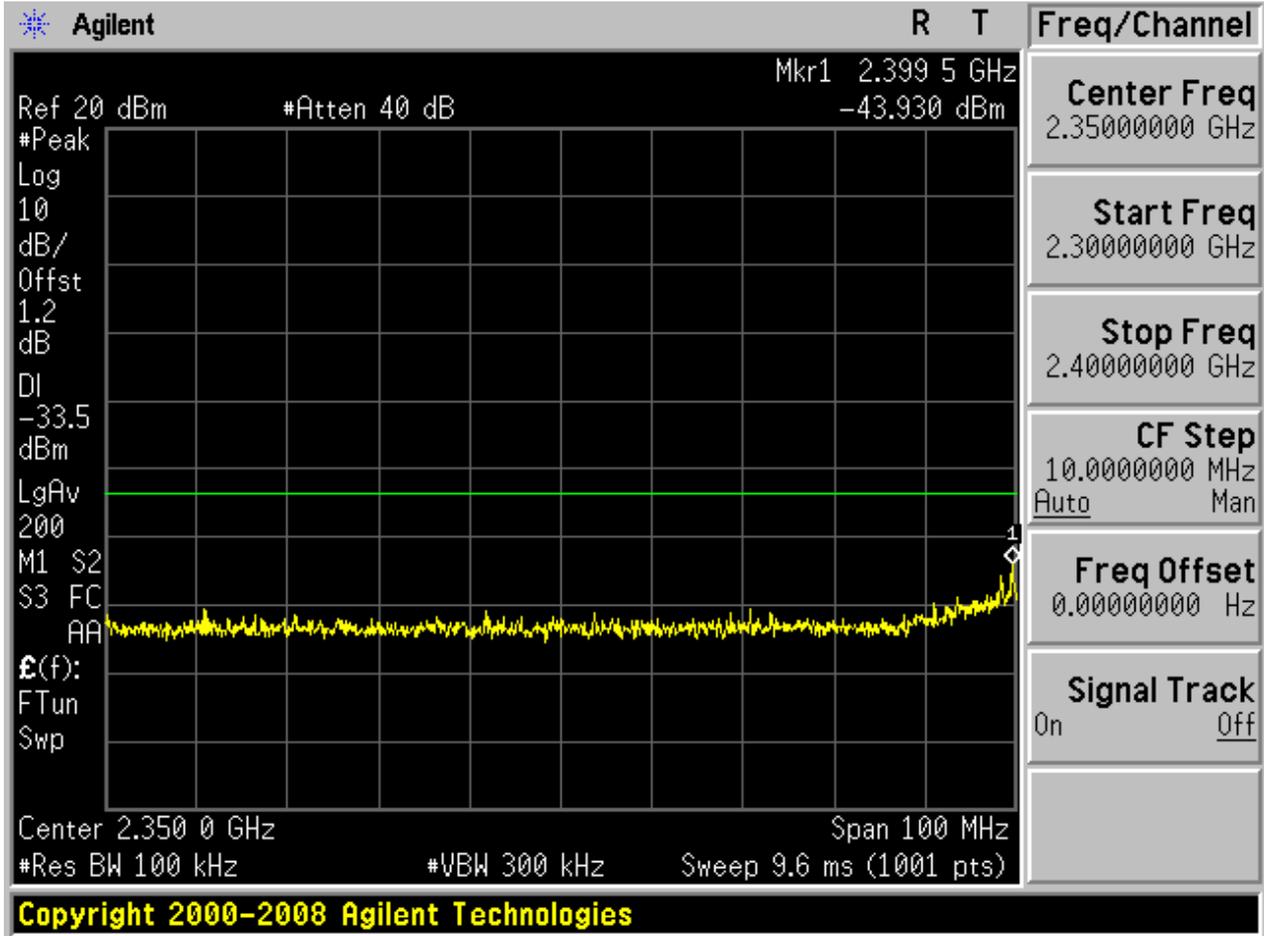


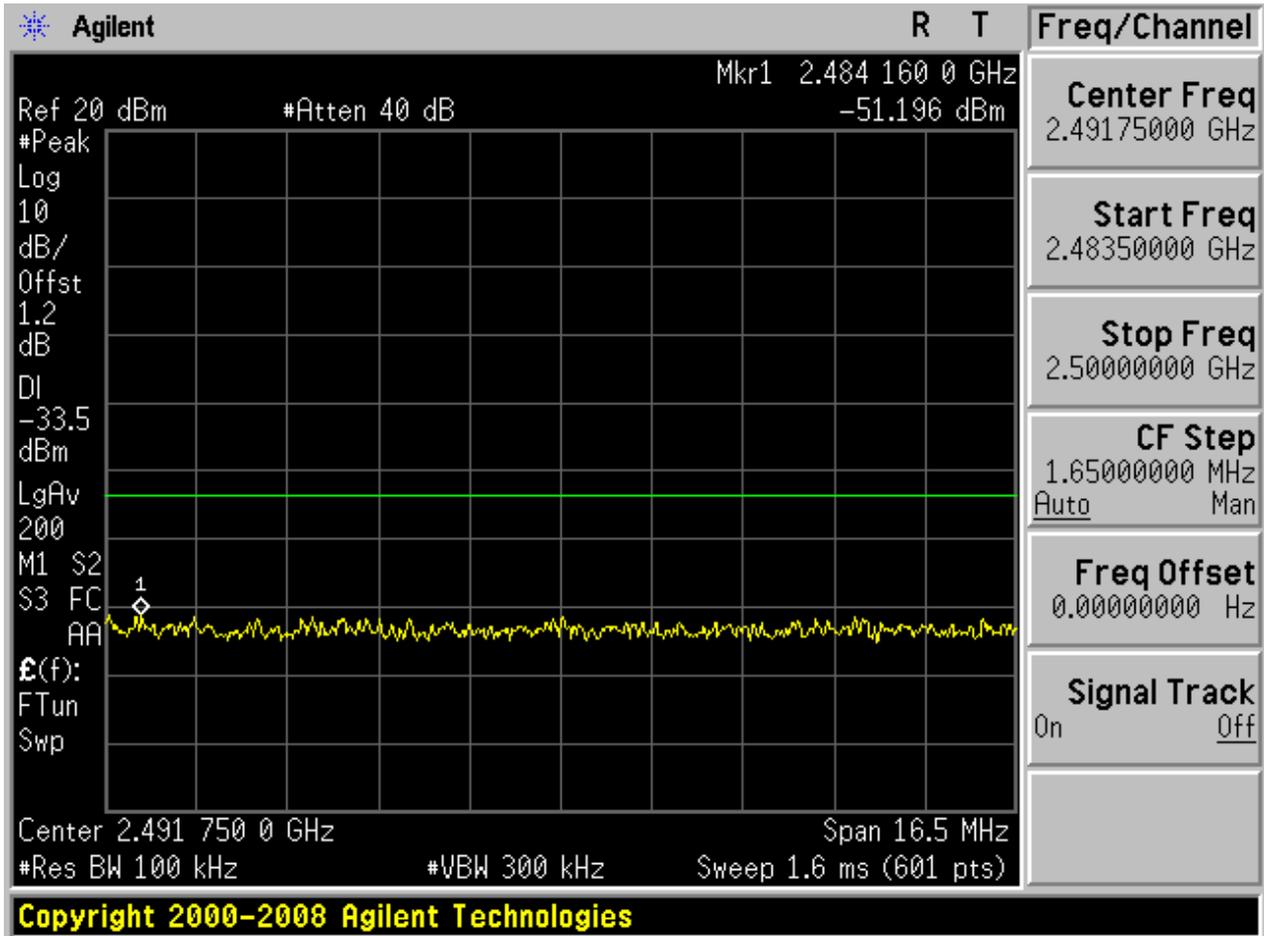
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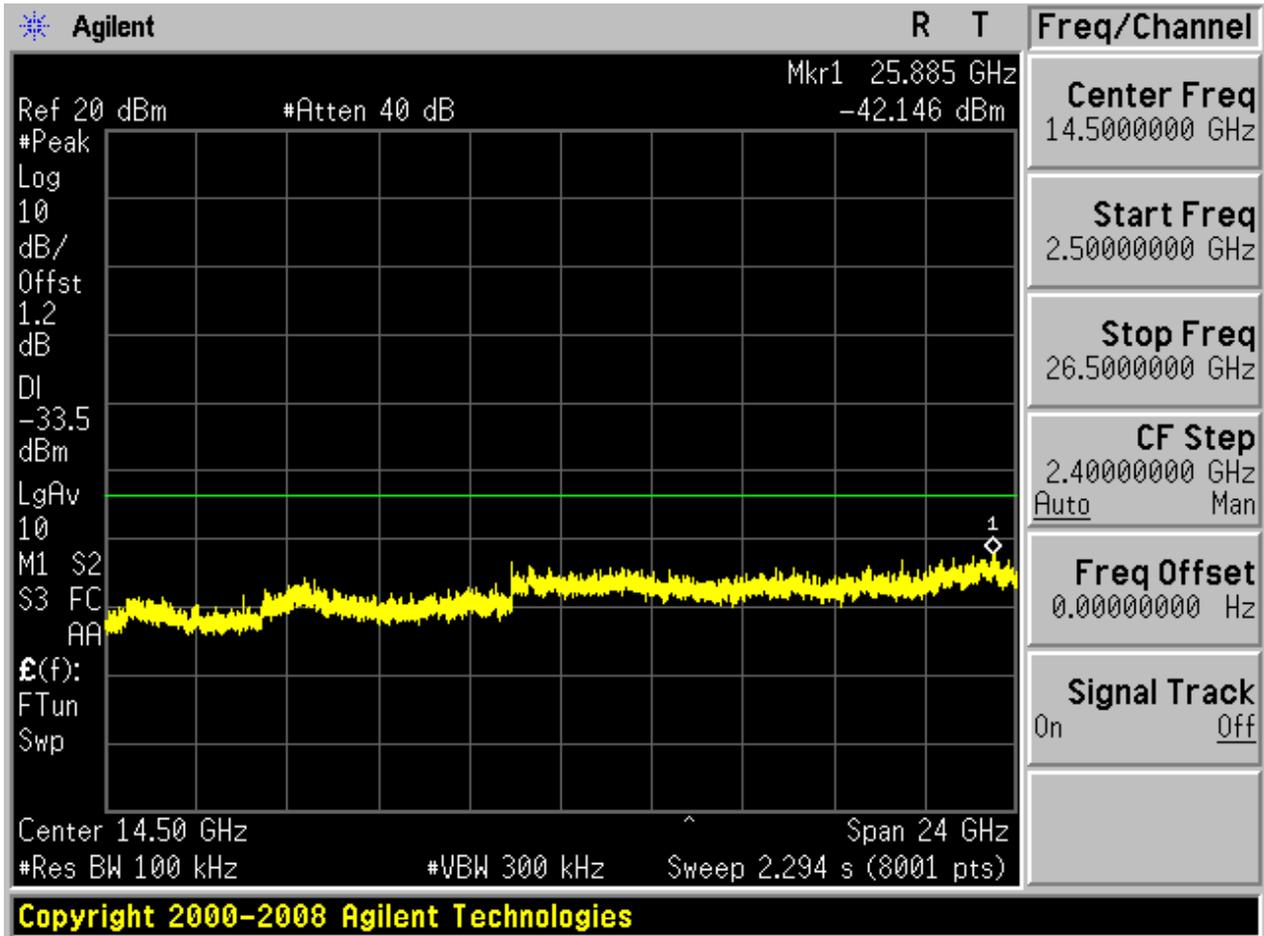








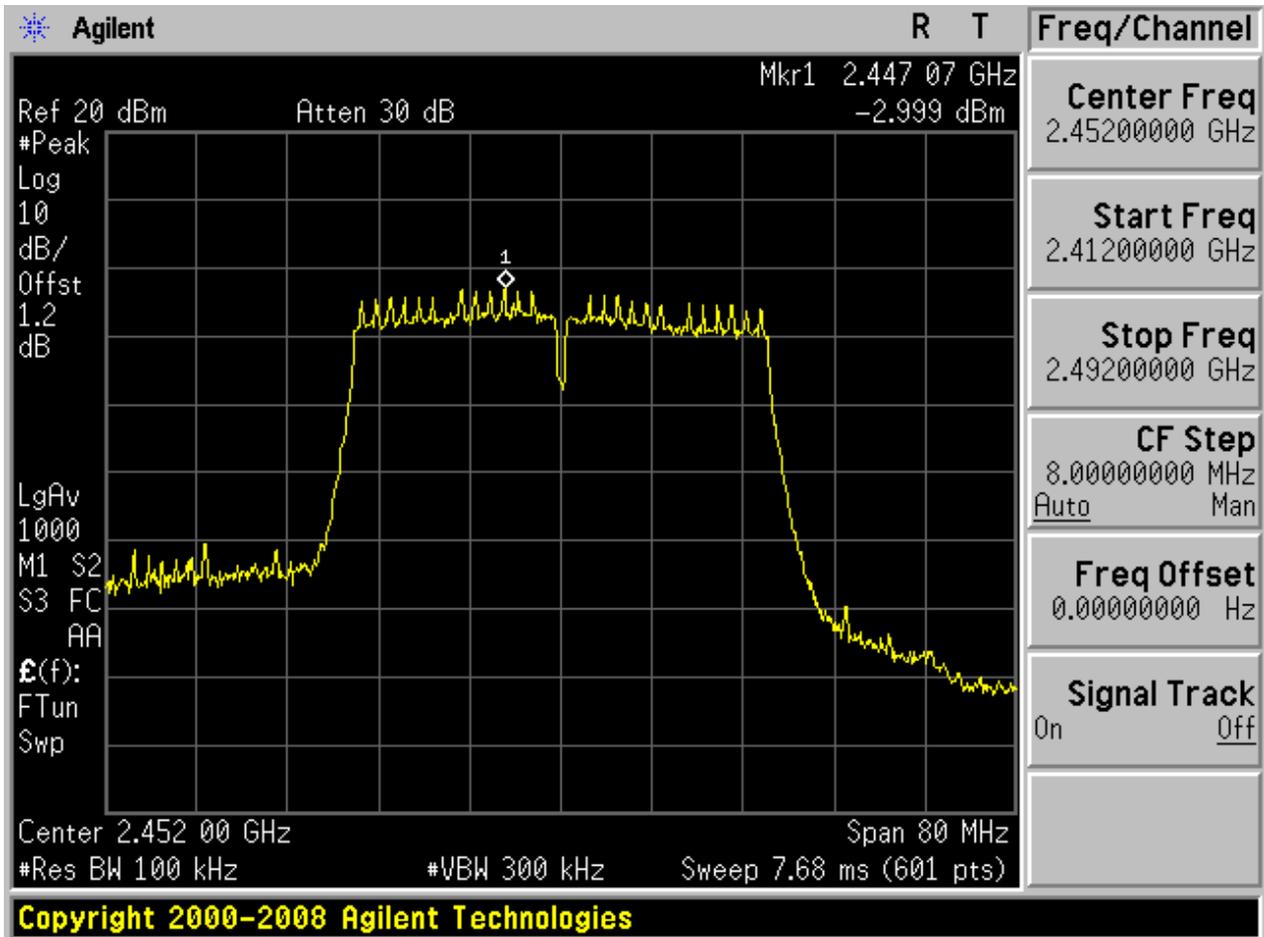






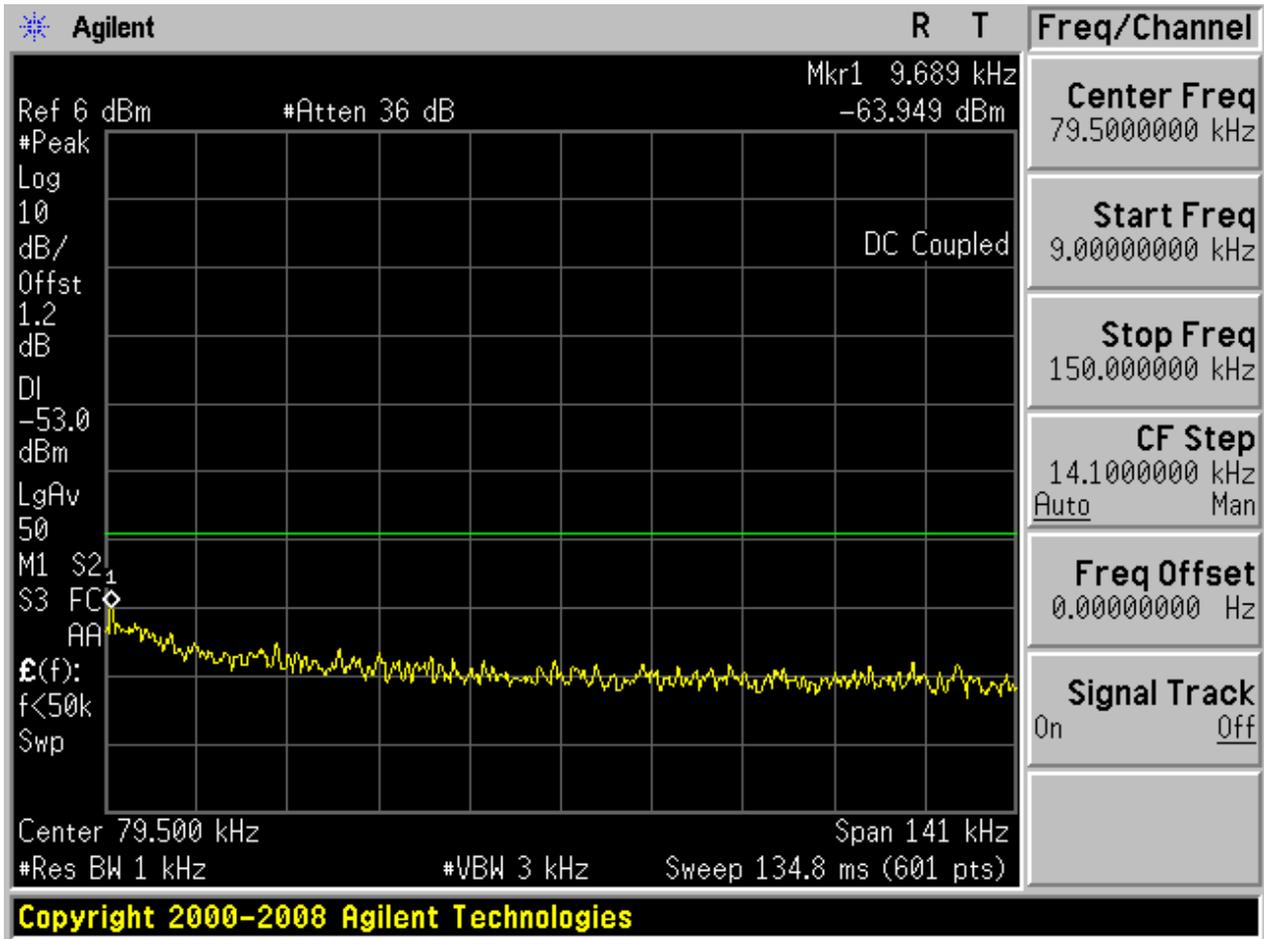
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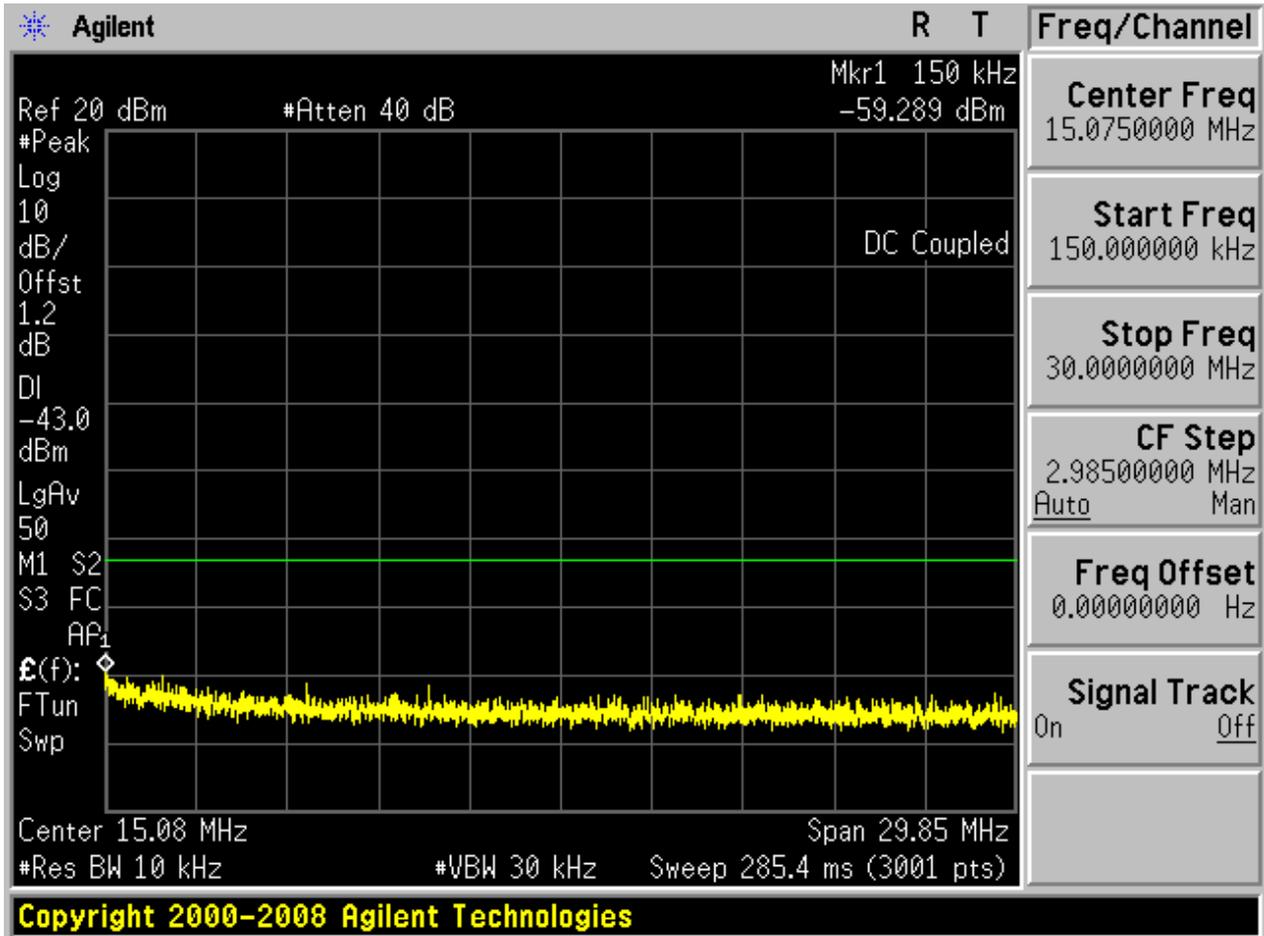
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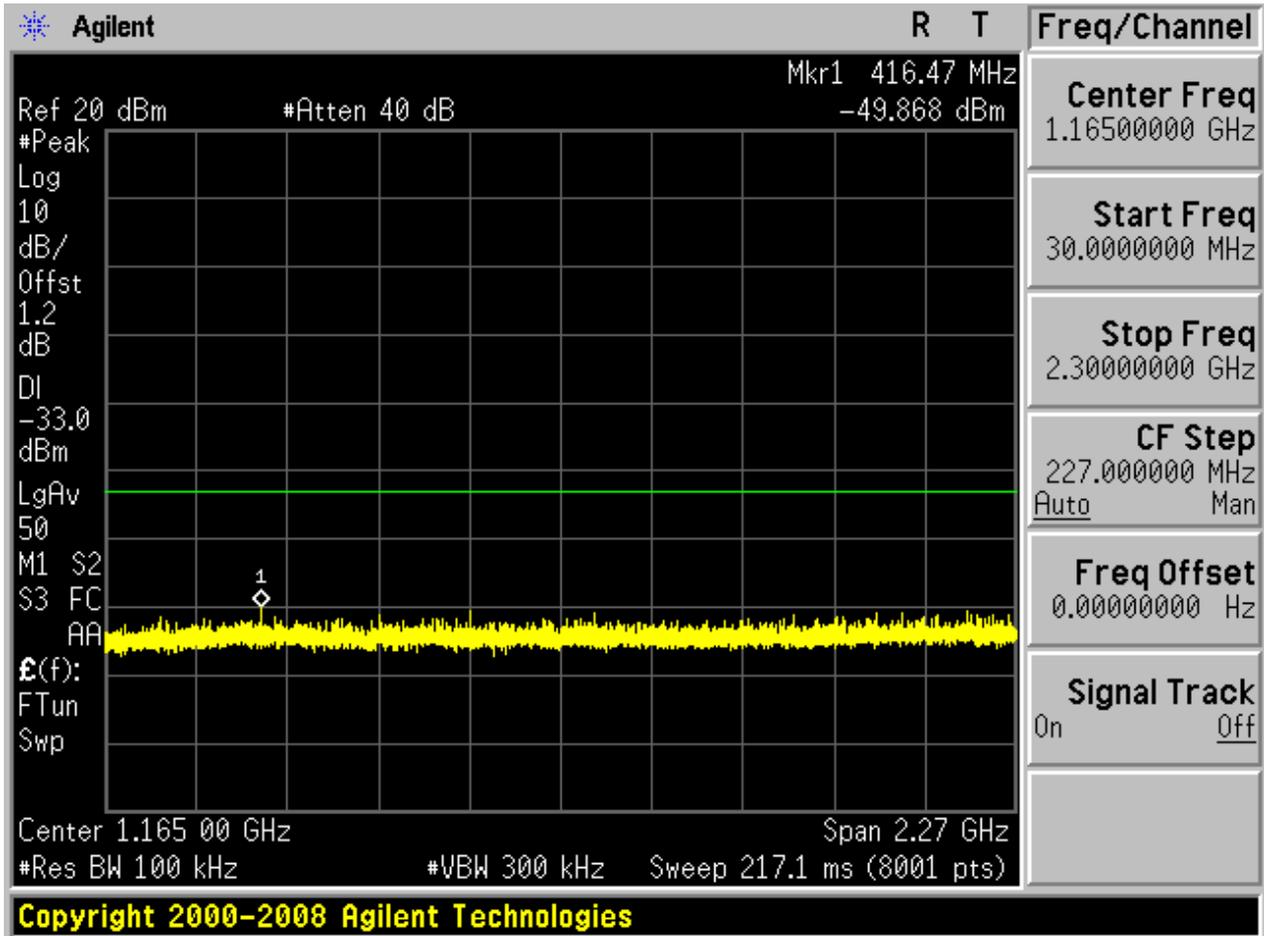


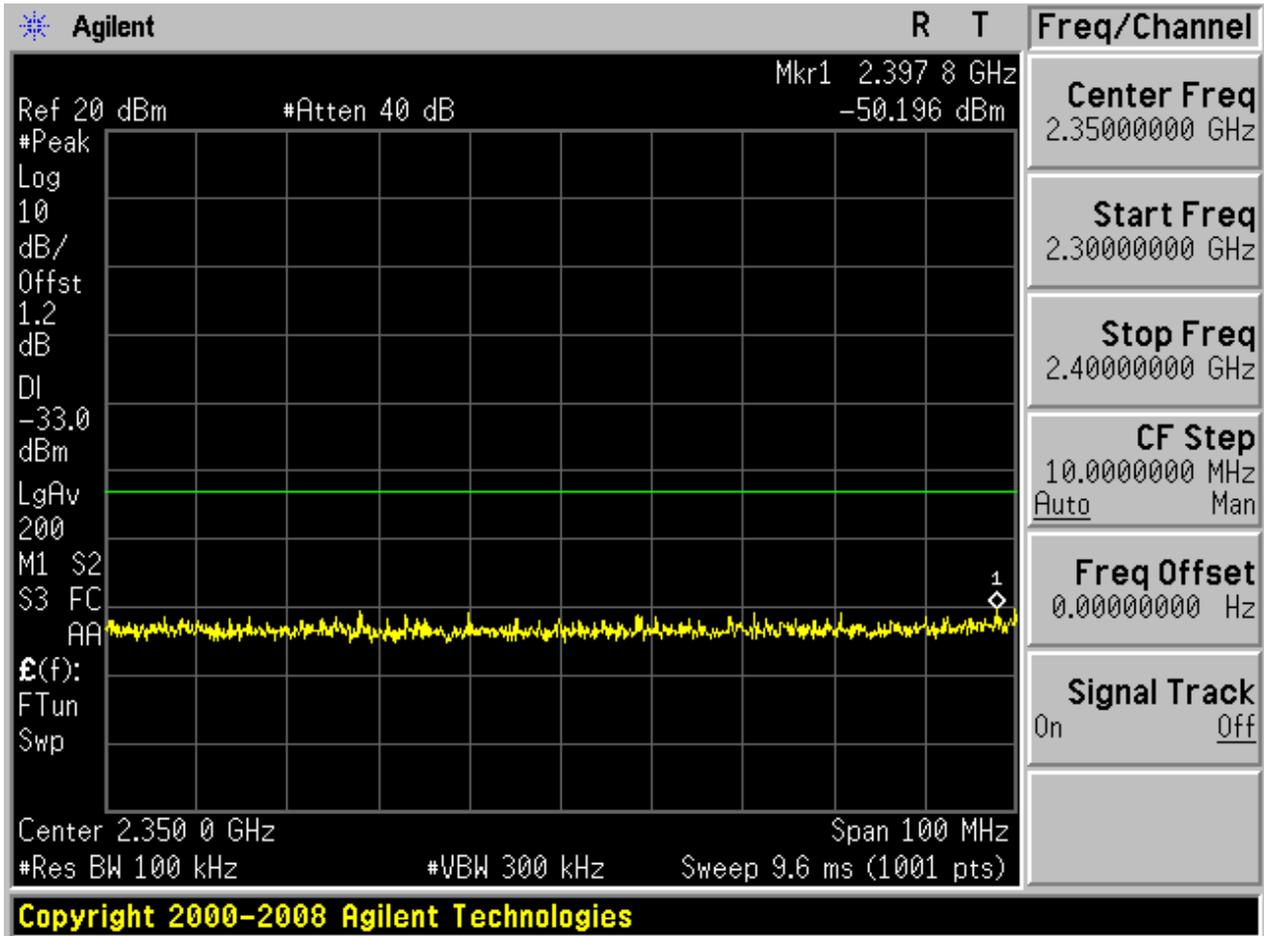


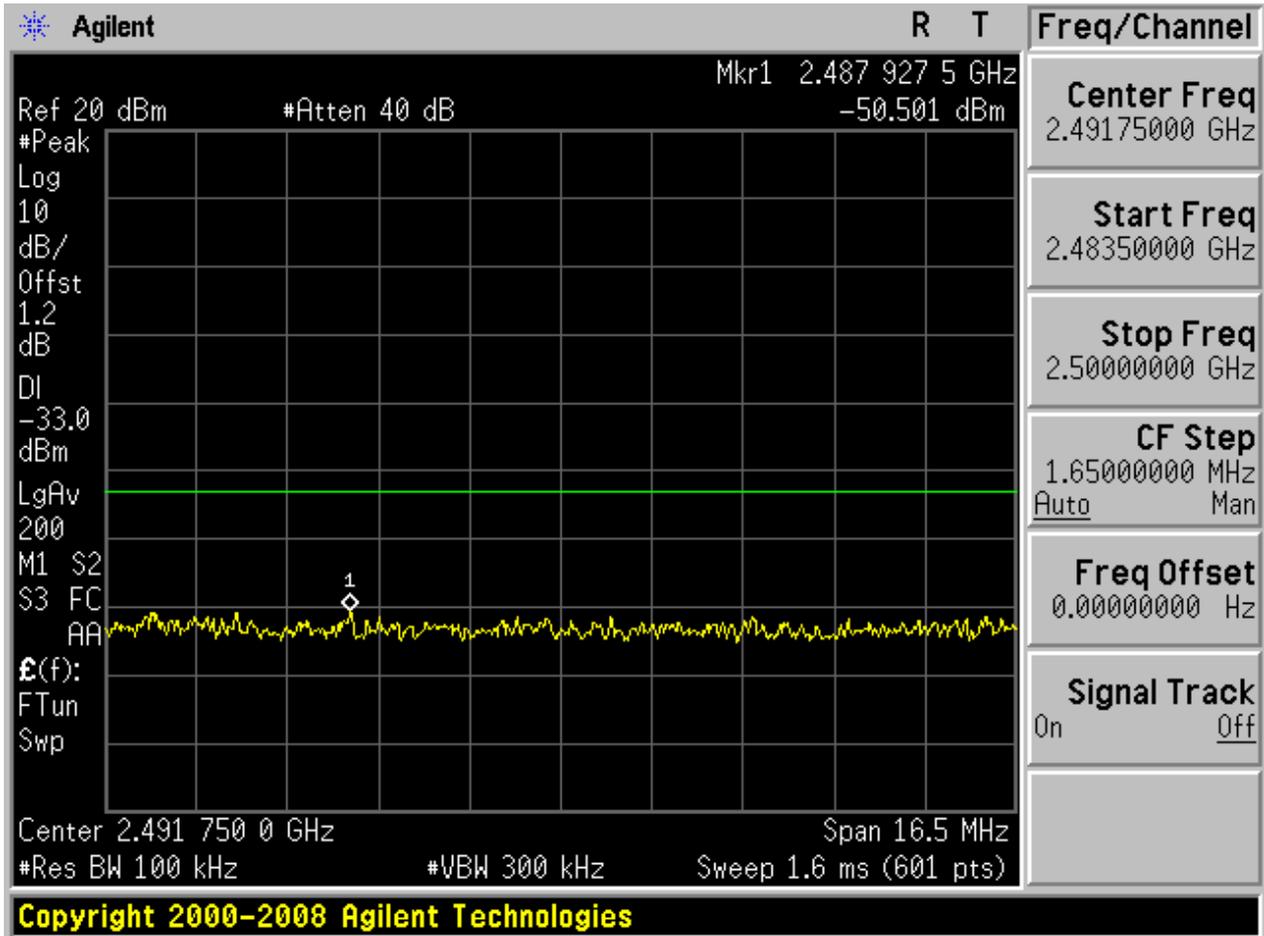
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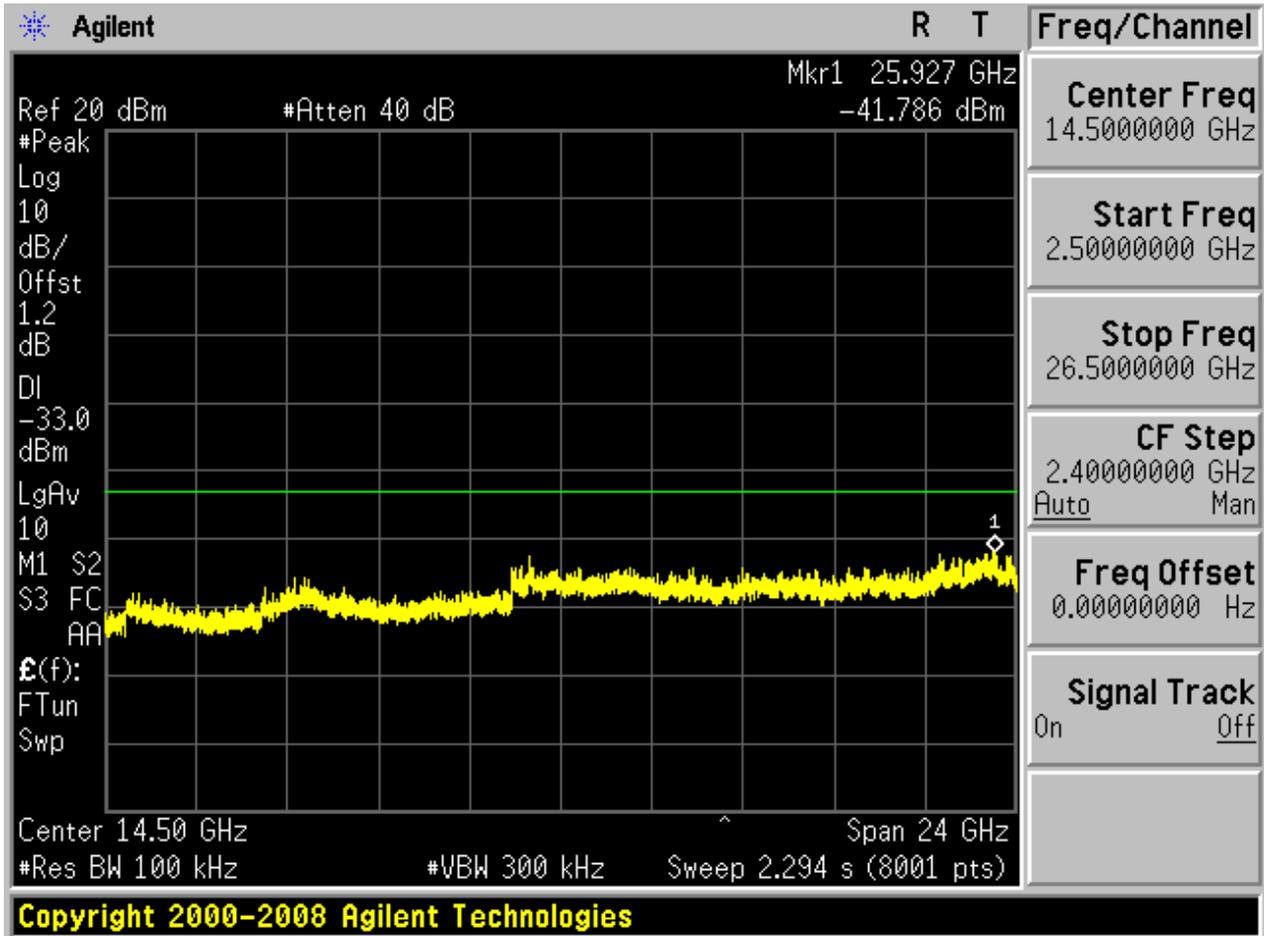








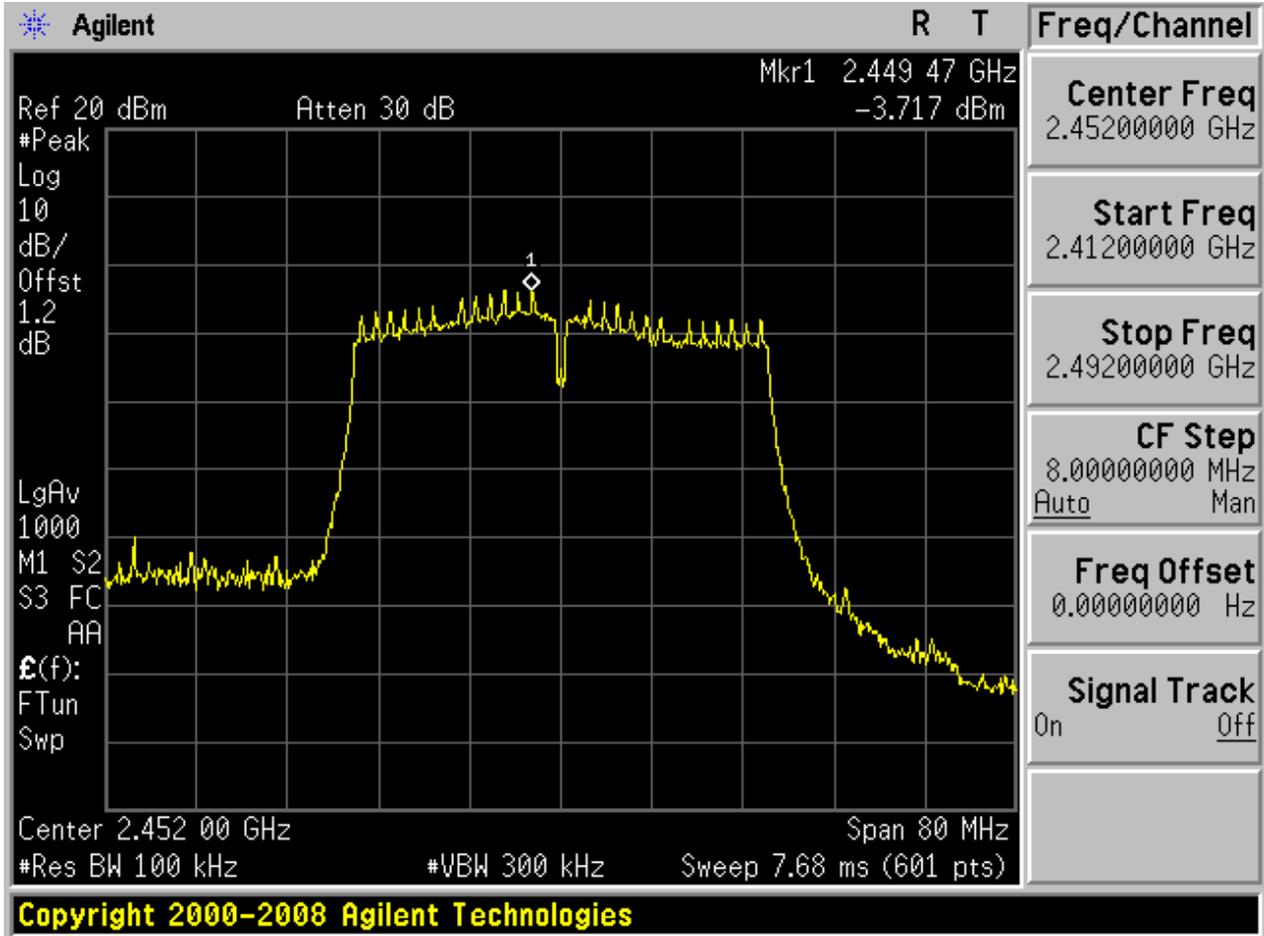






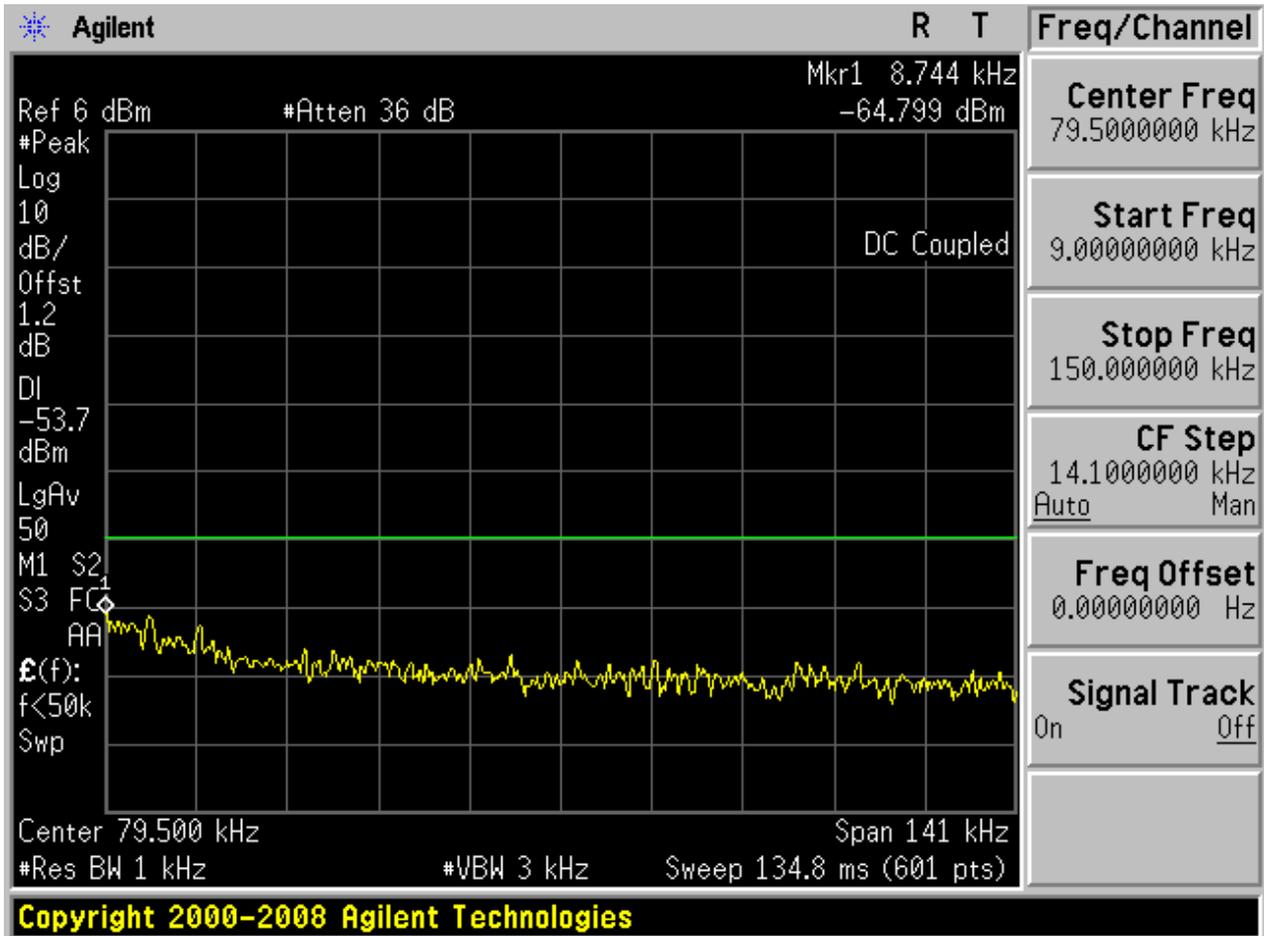
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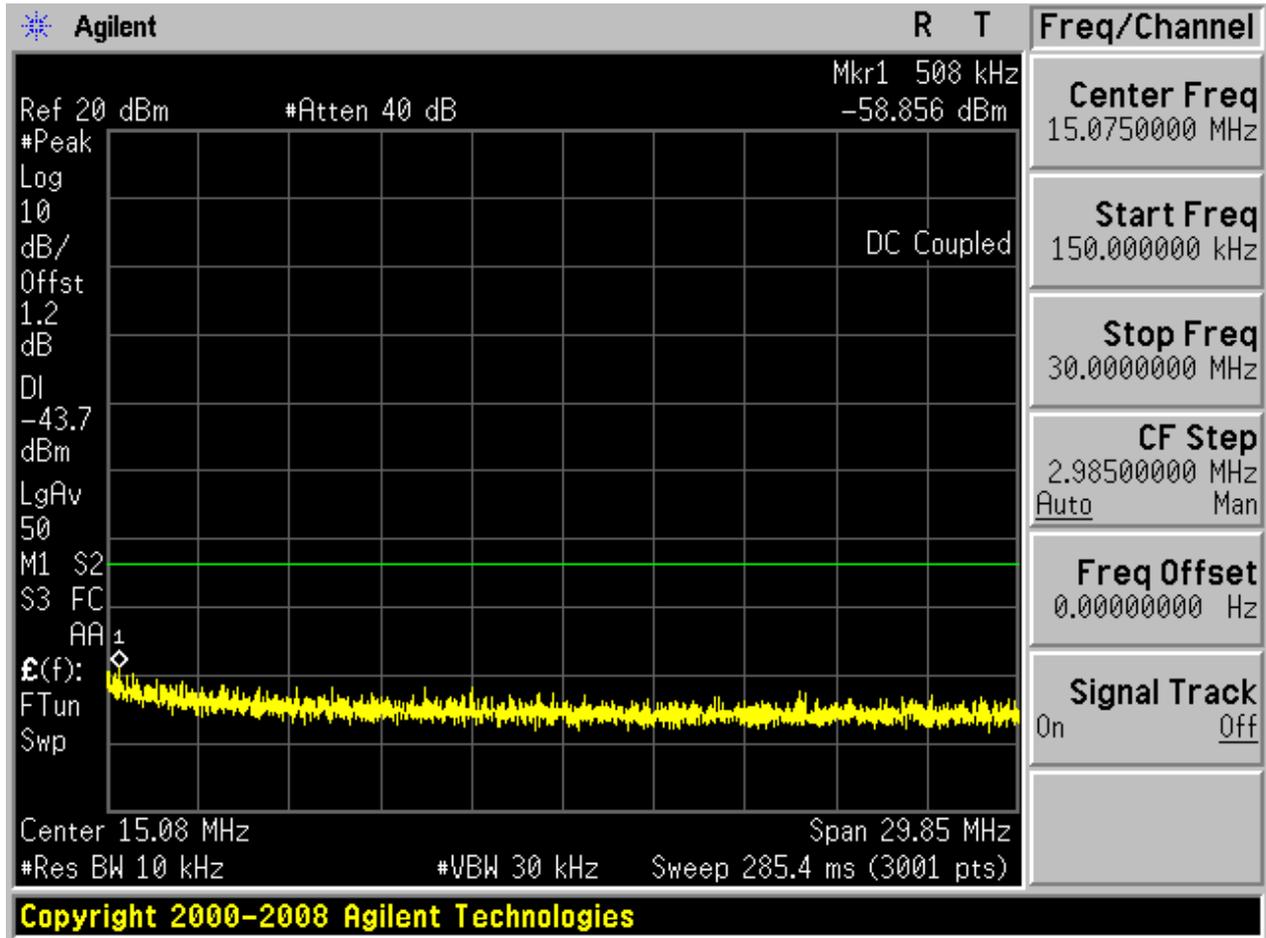
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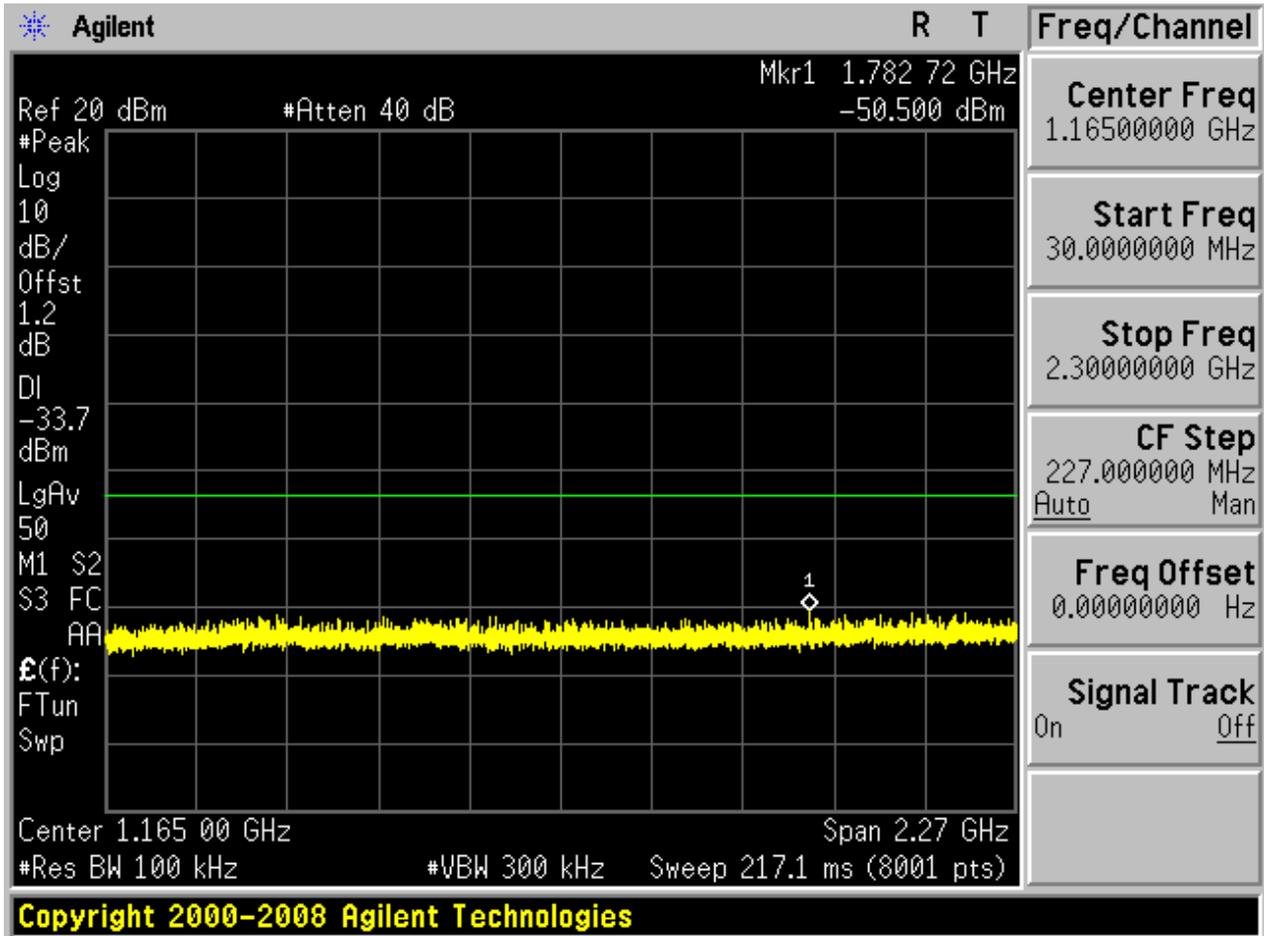


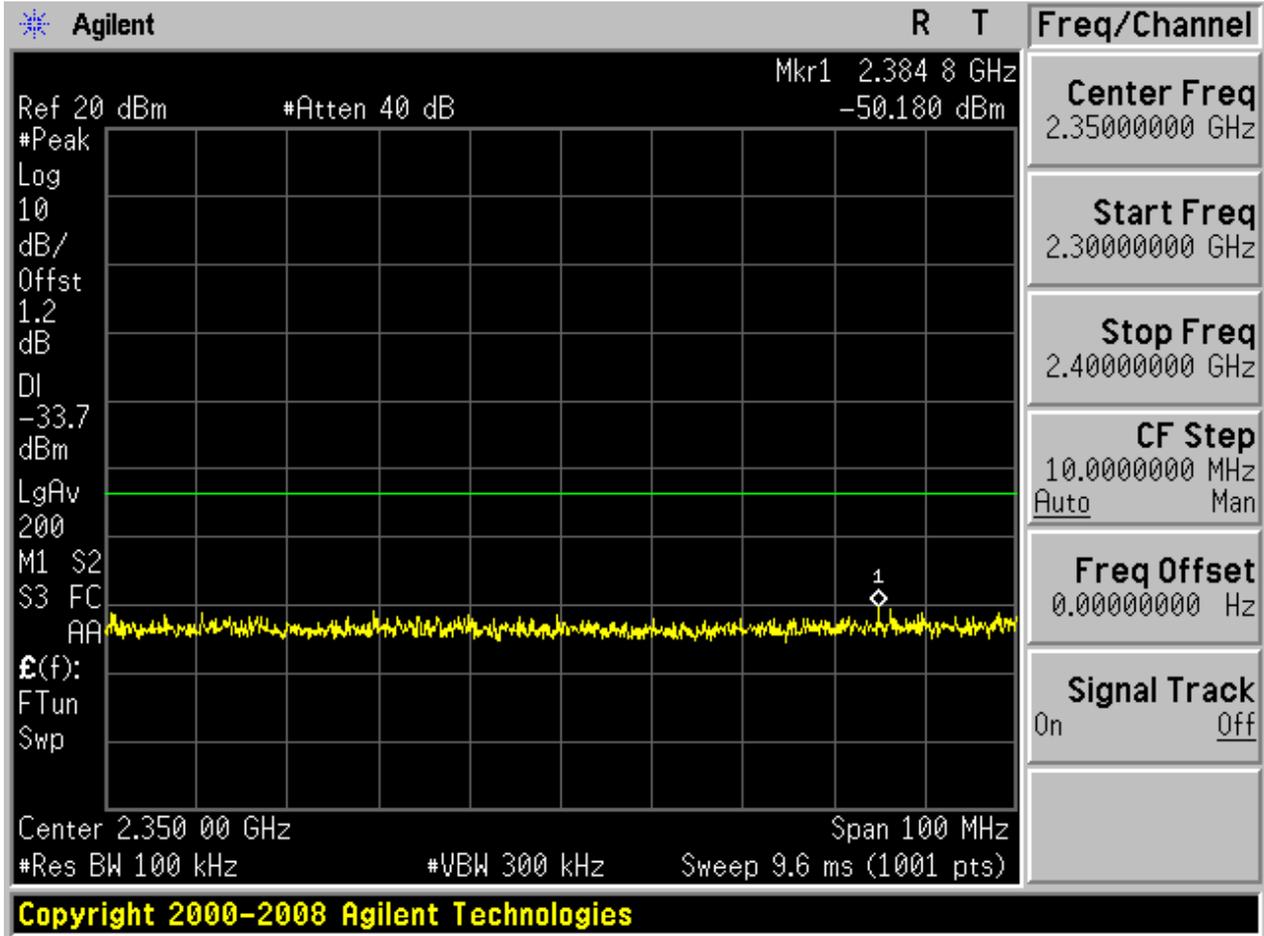


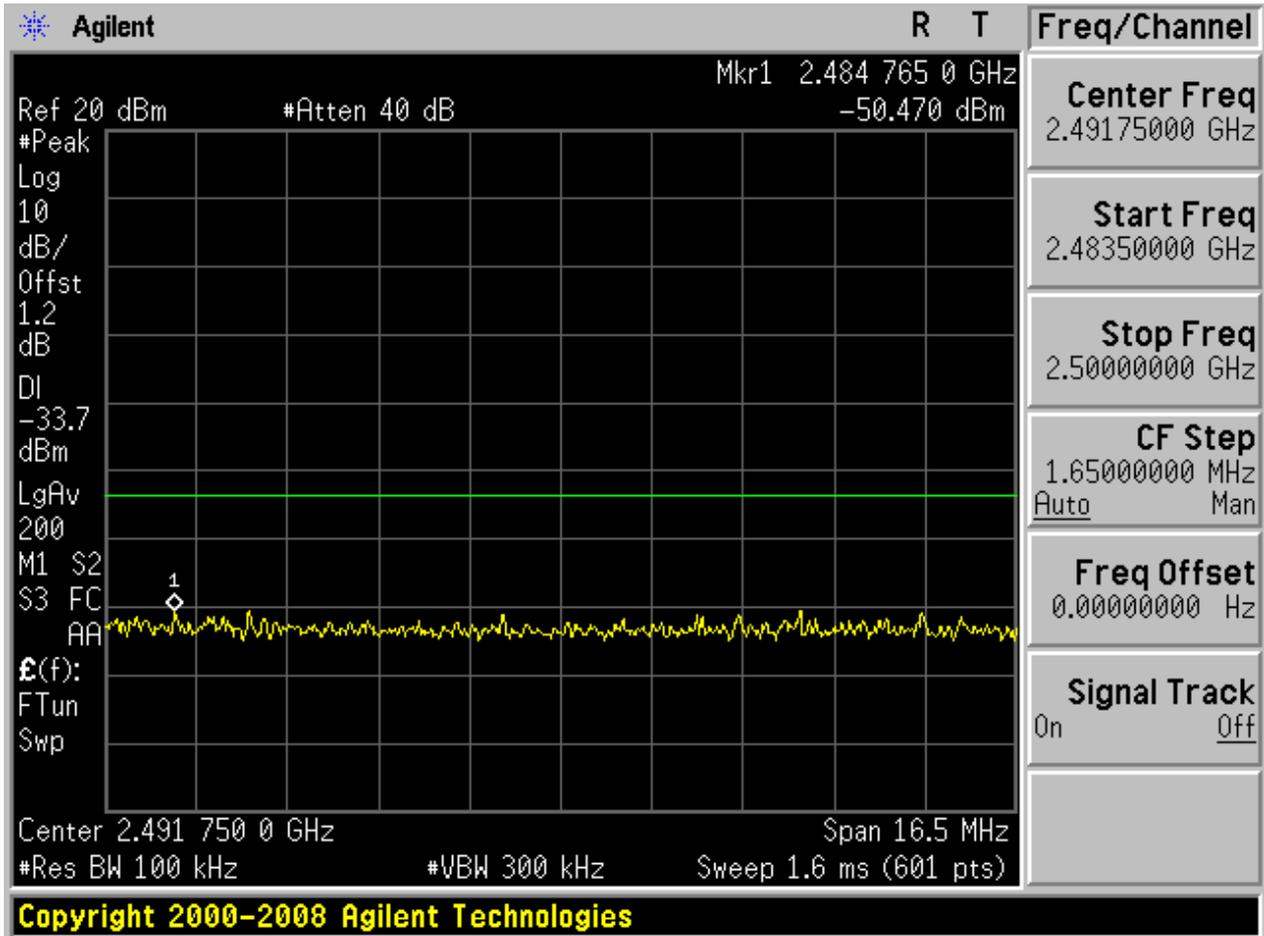
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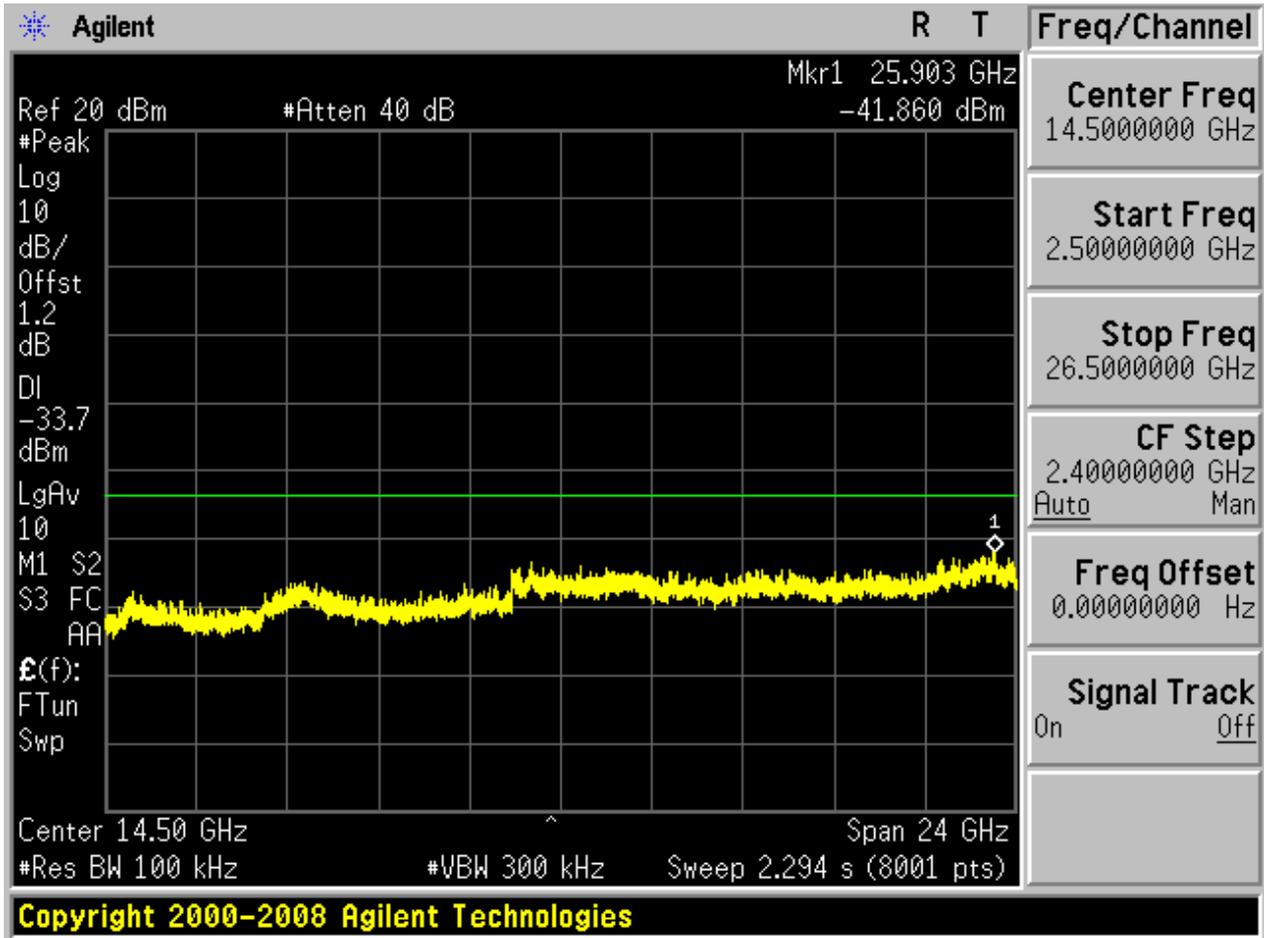








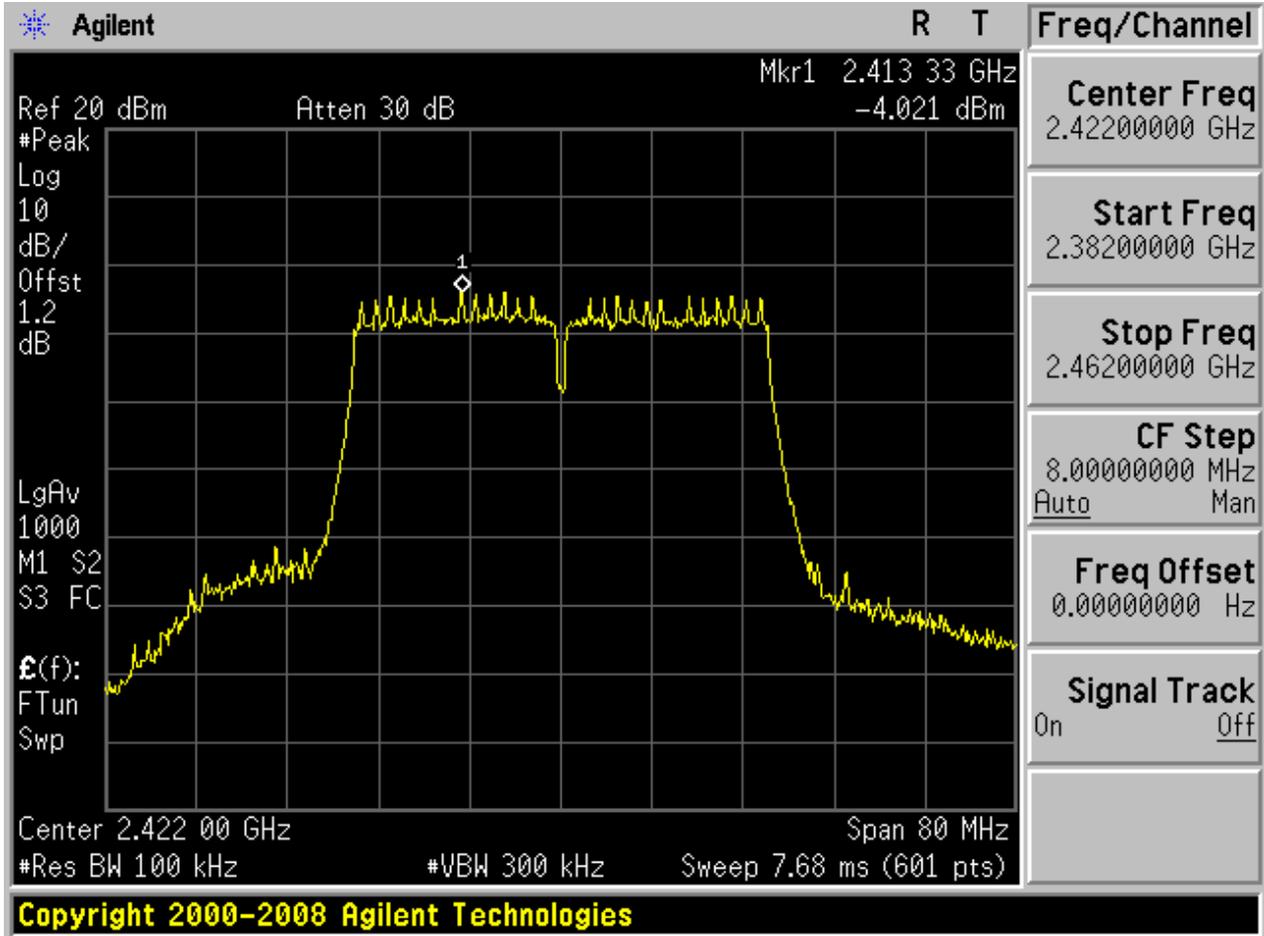






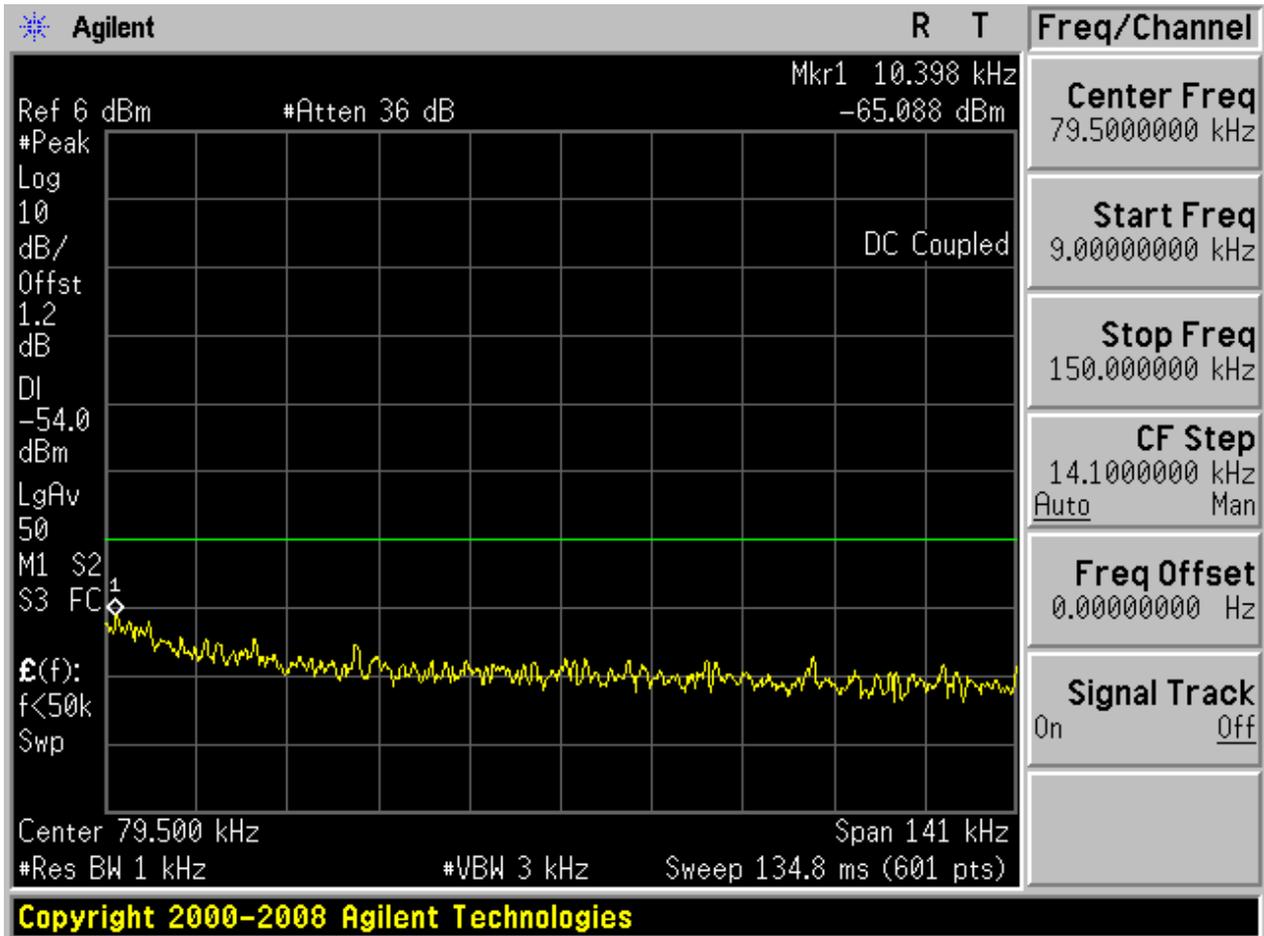
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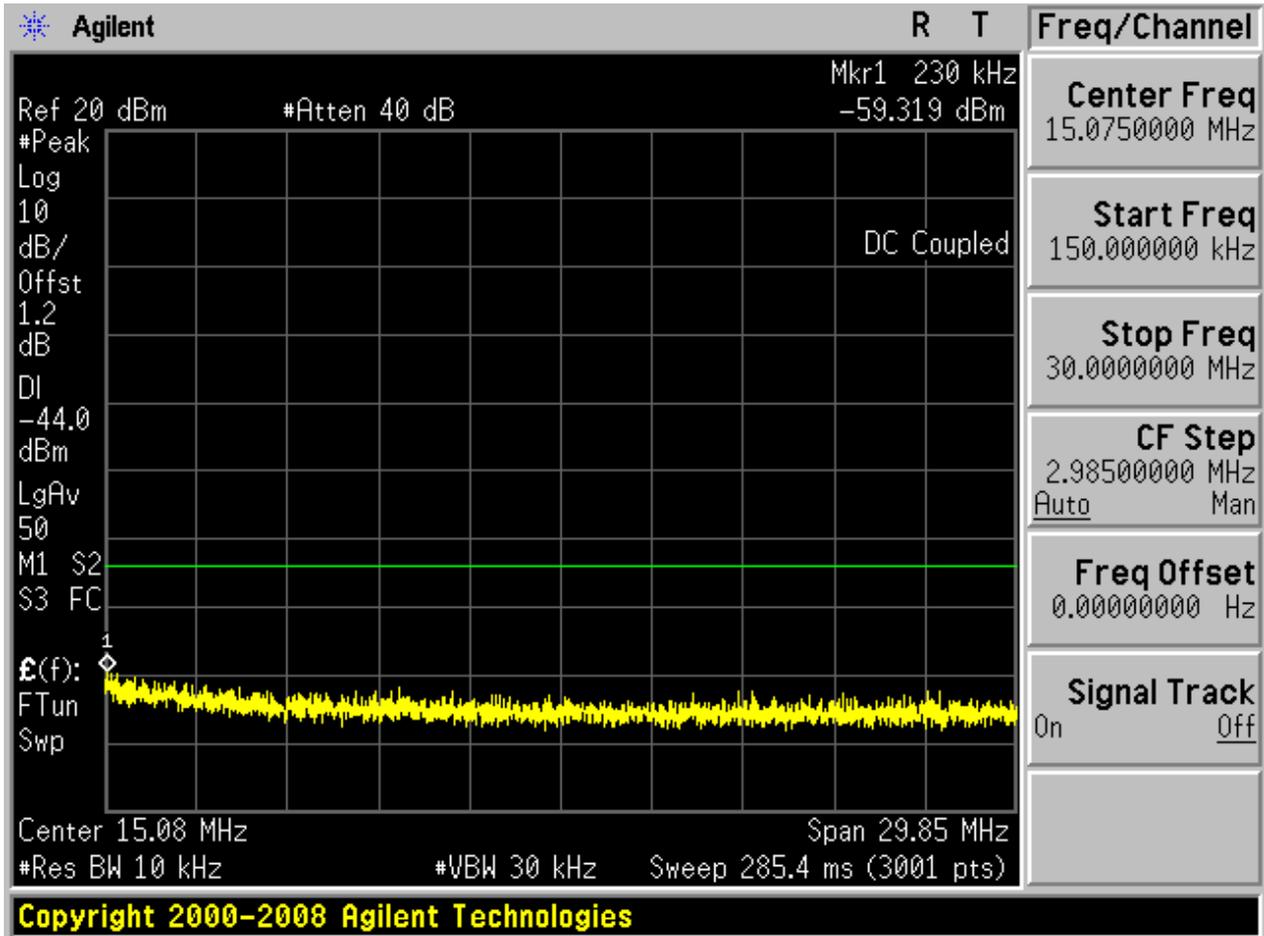
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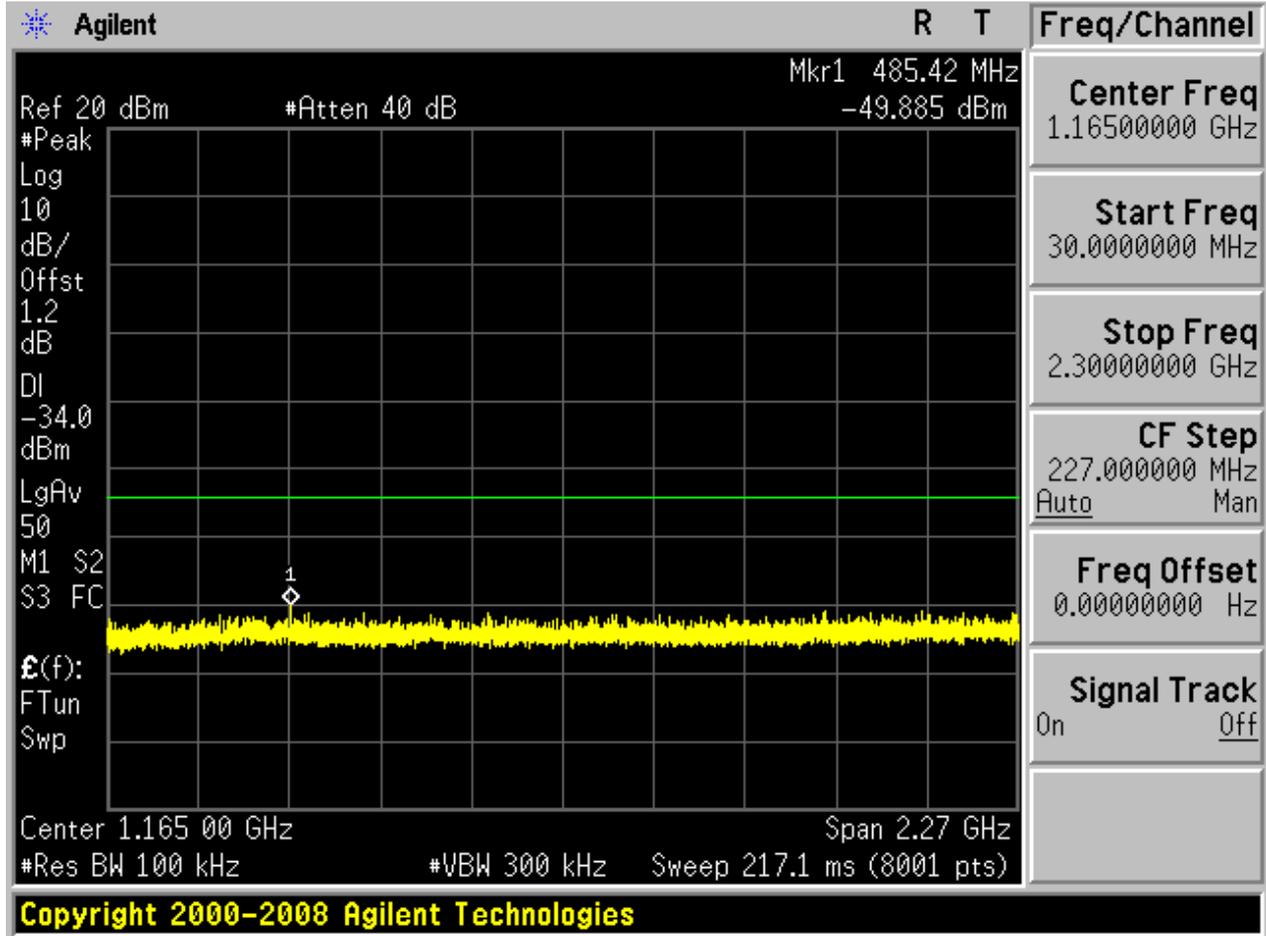


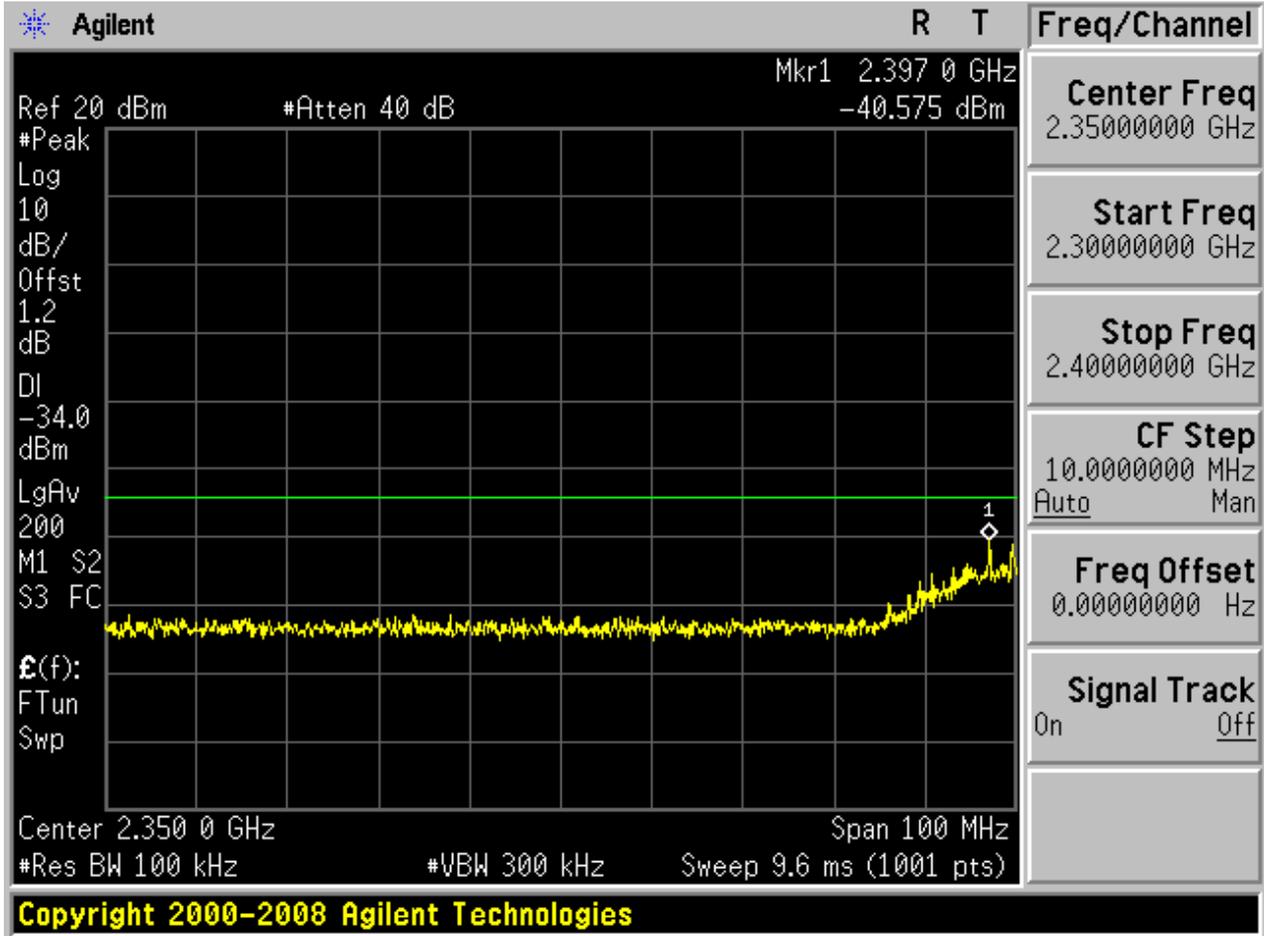


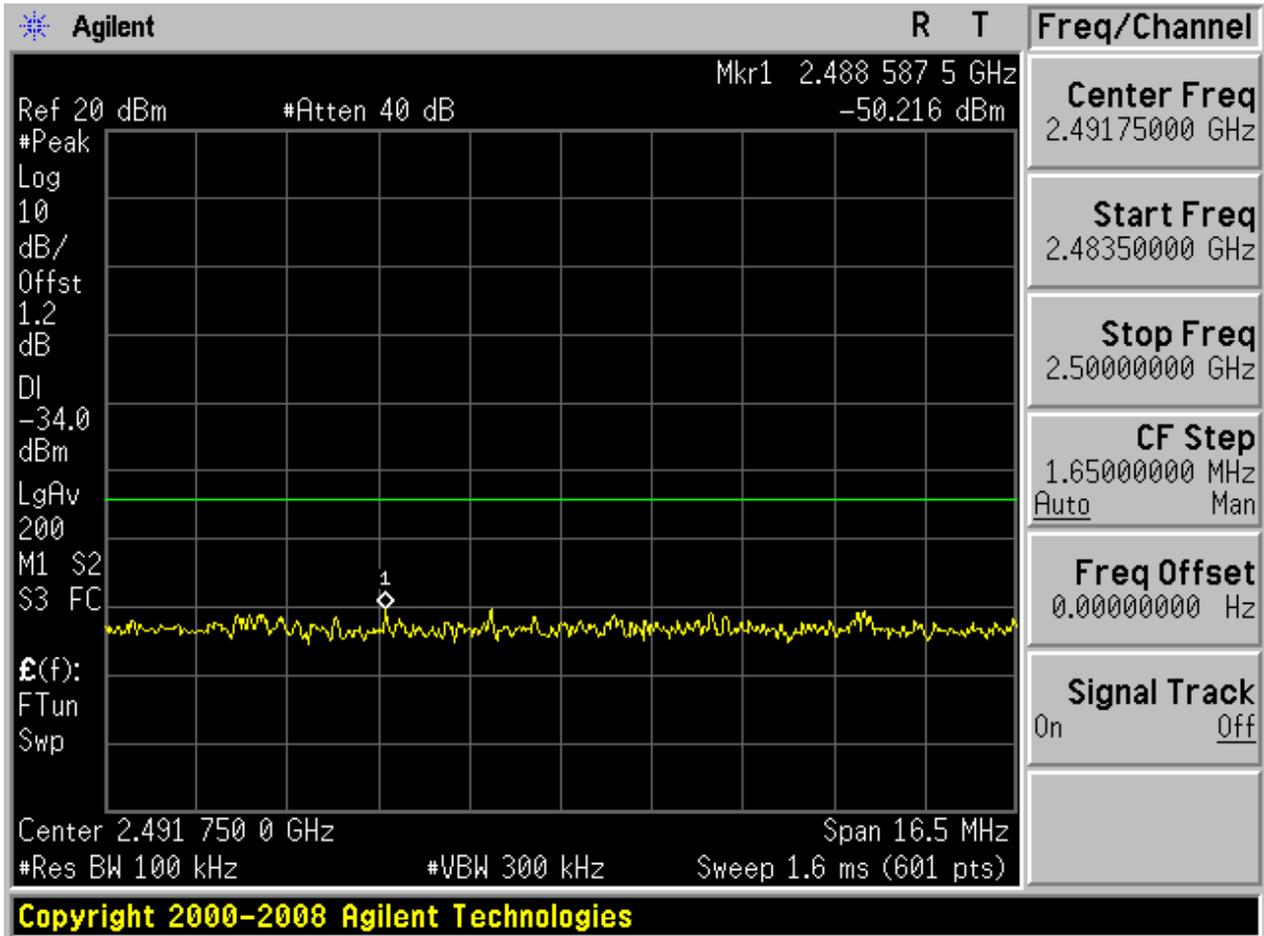
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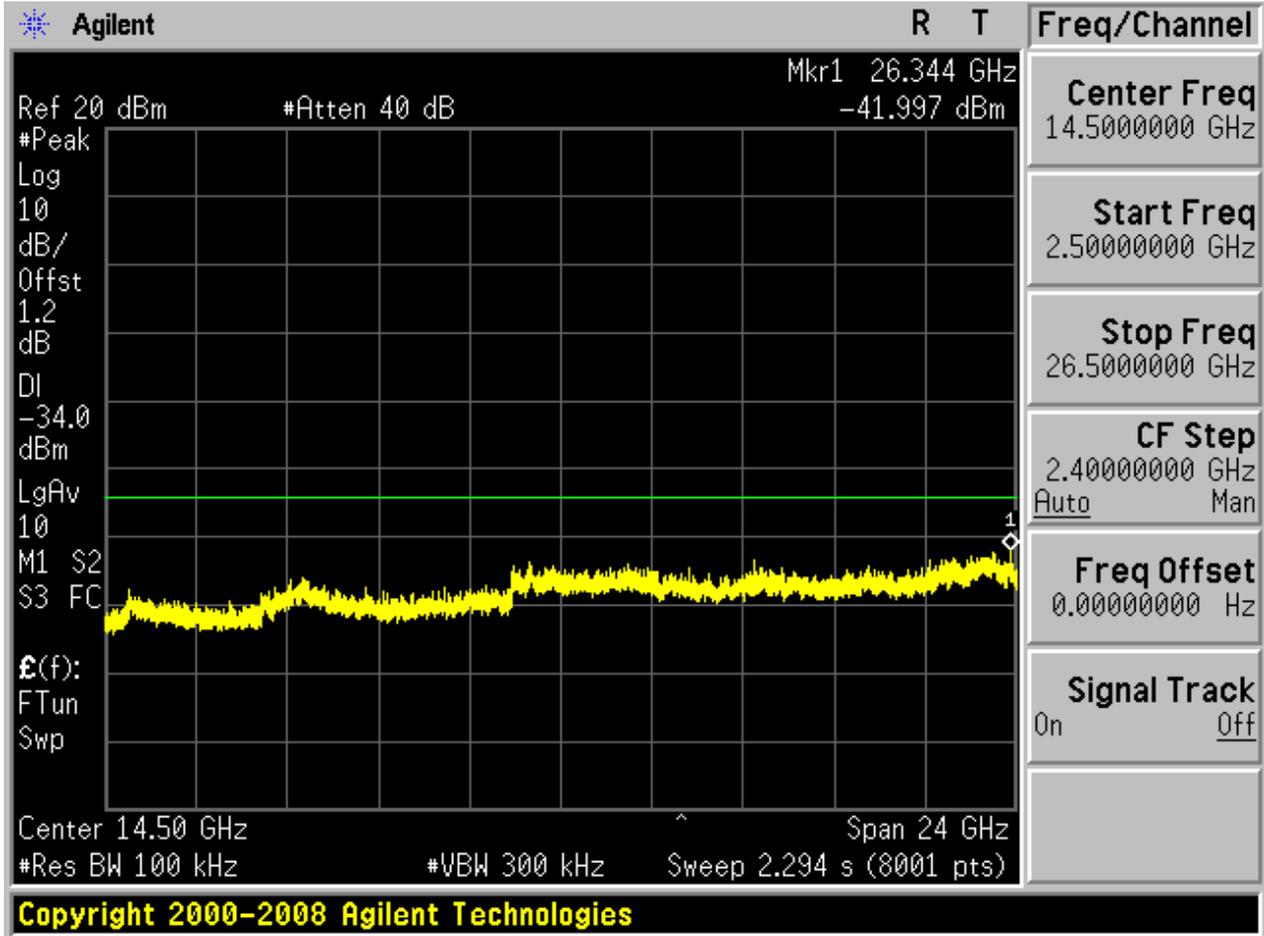








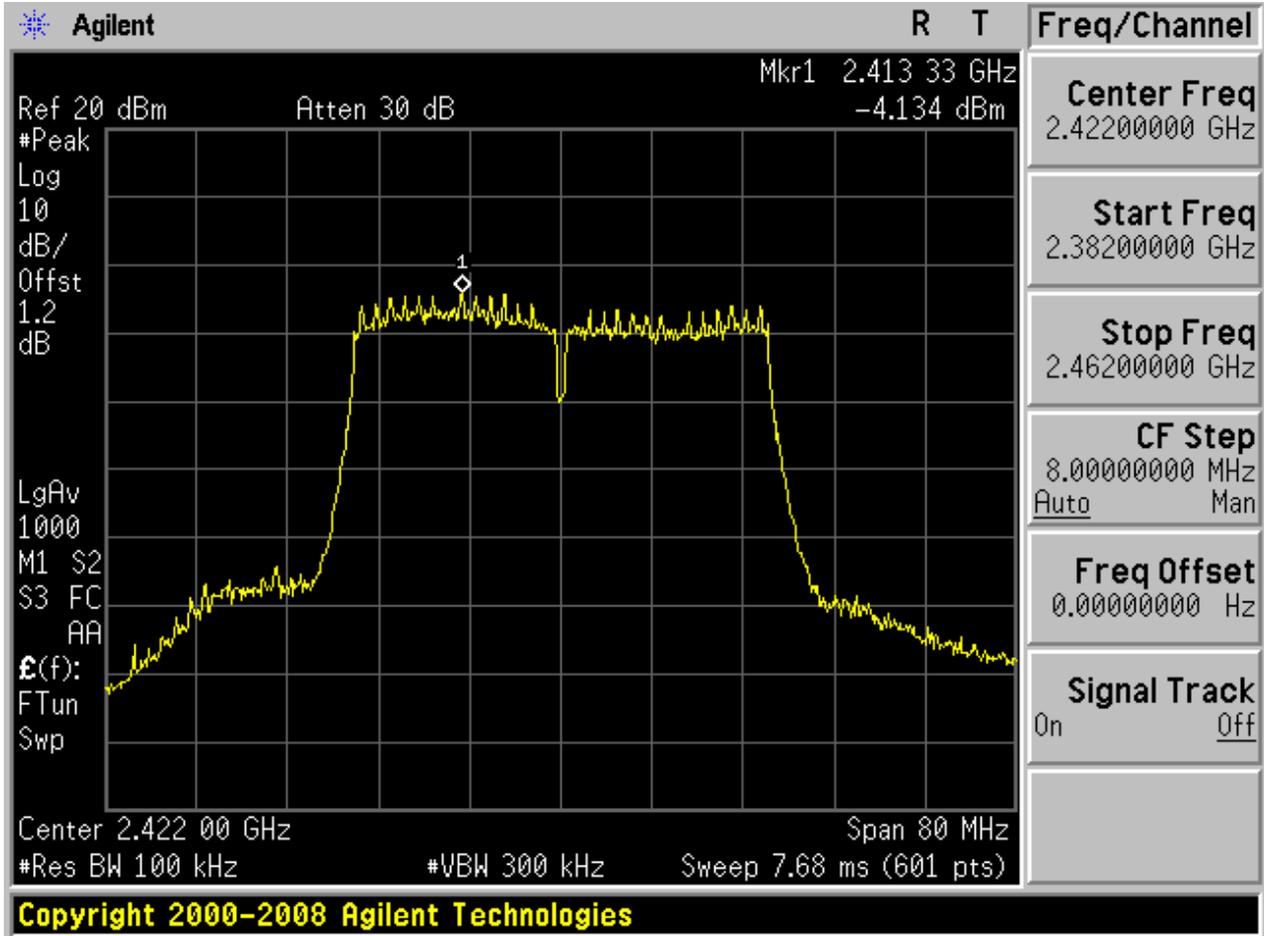






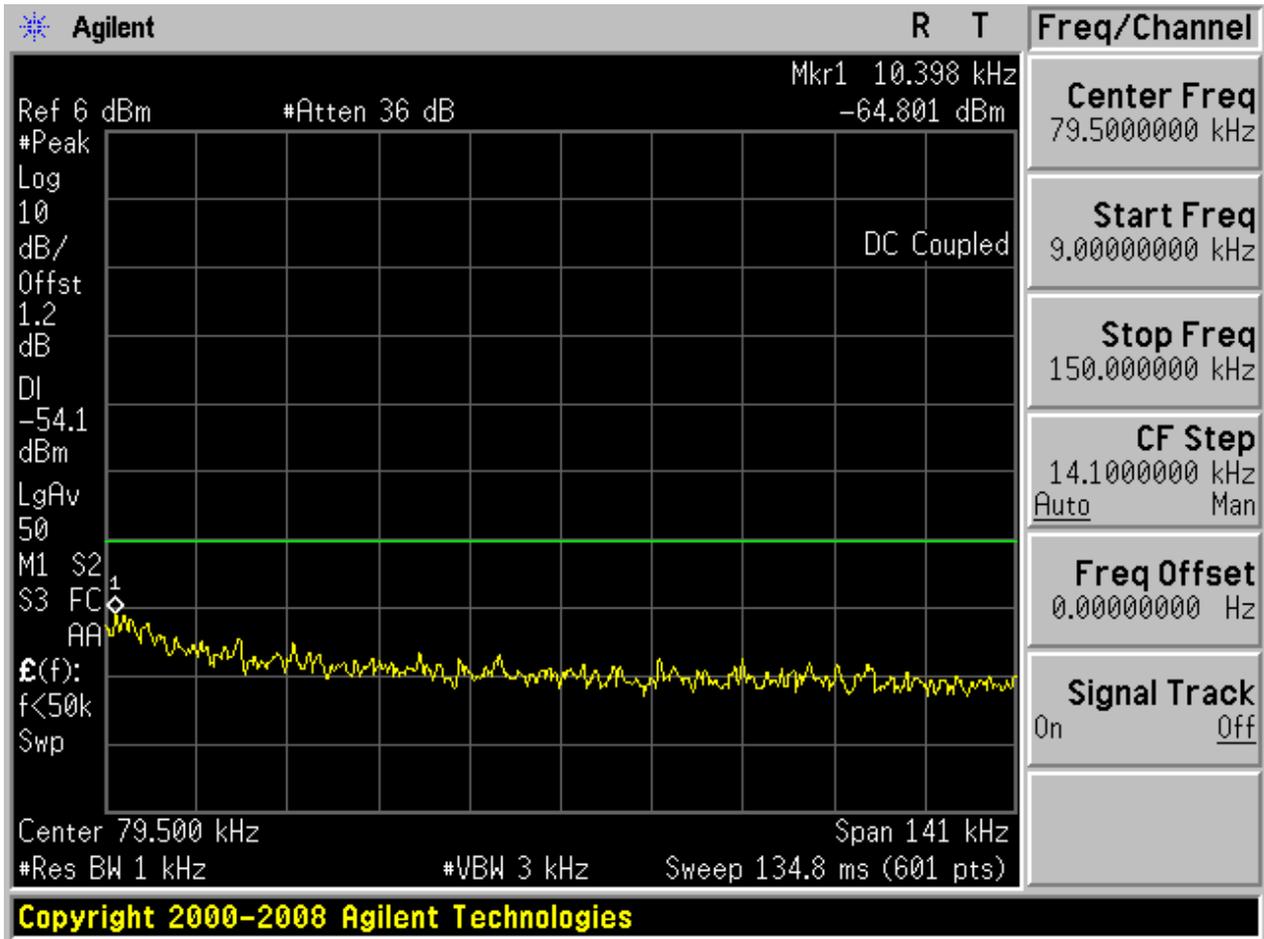
2.32 11N40m_L@Ant 2

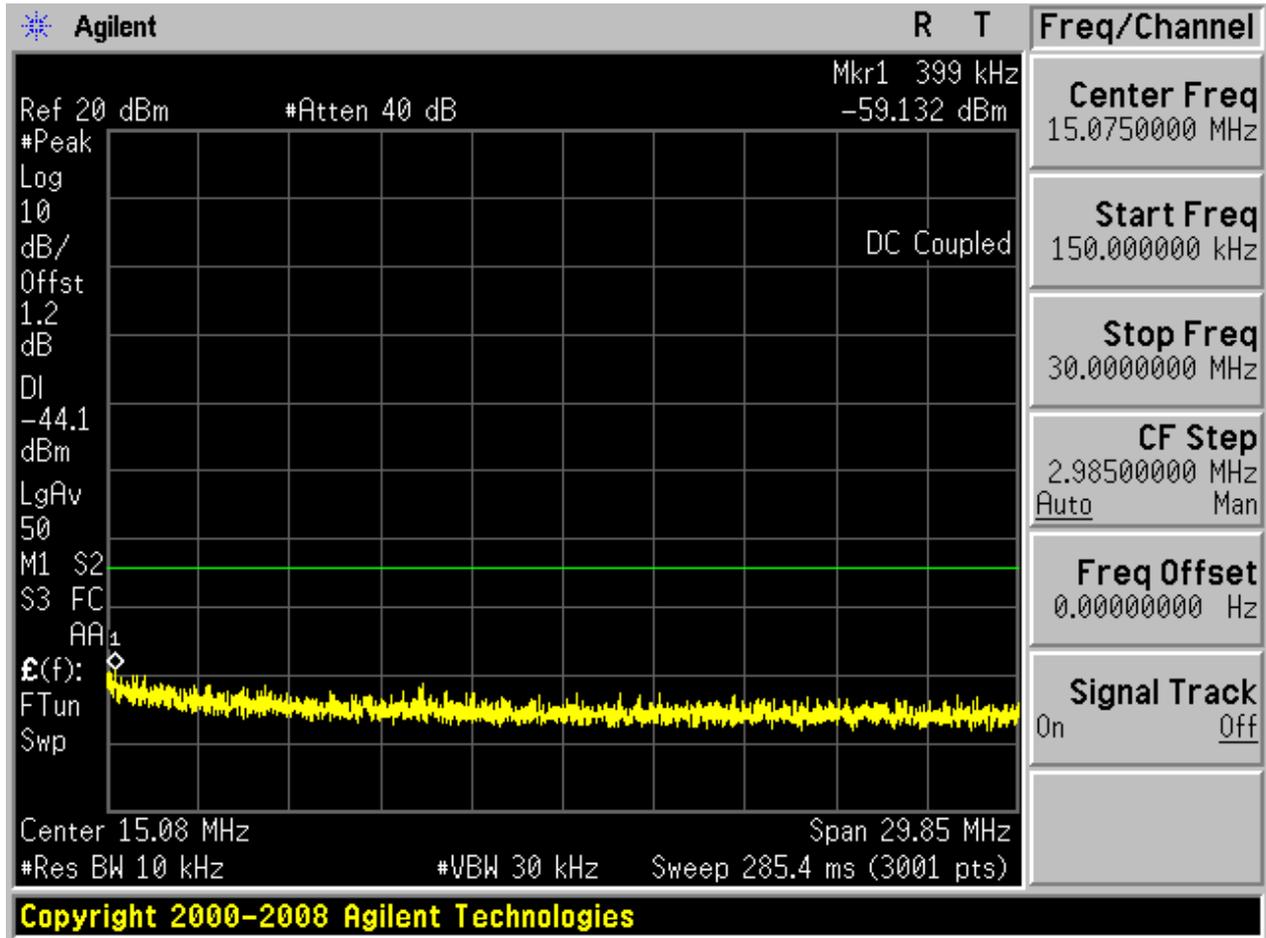
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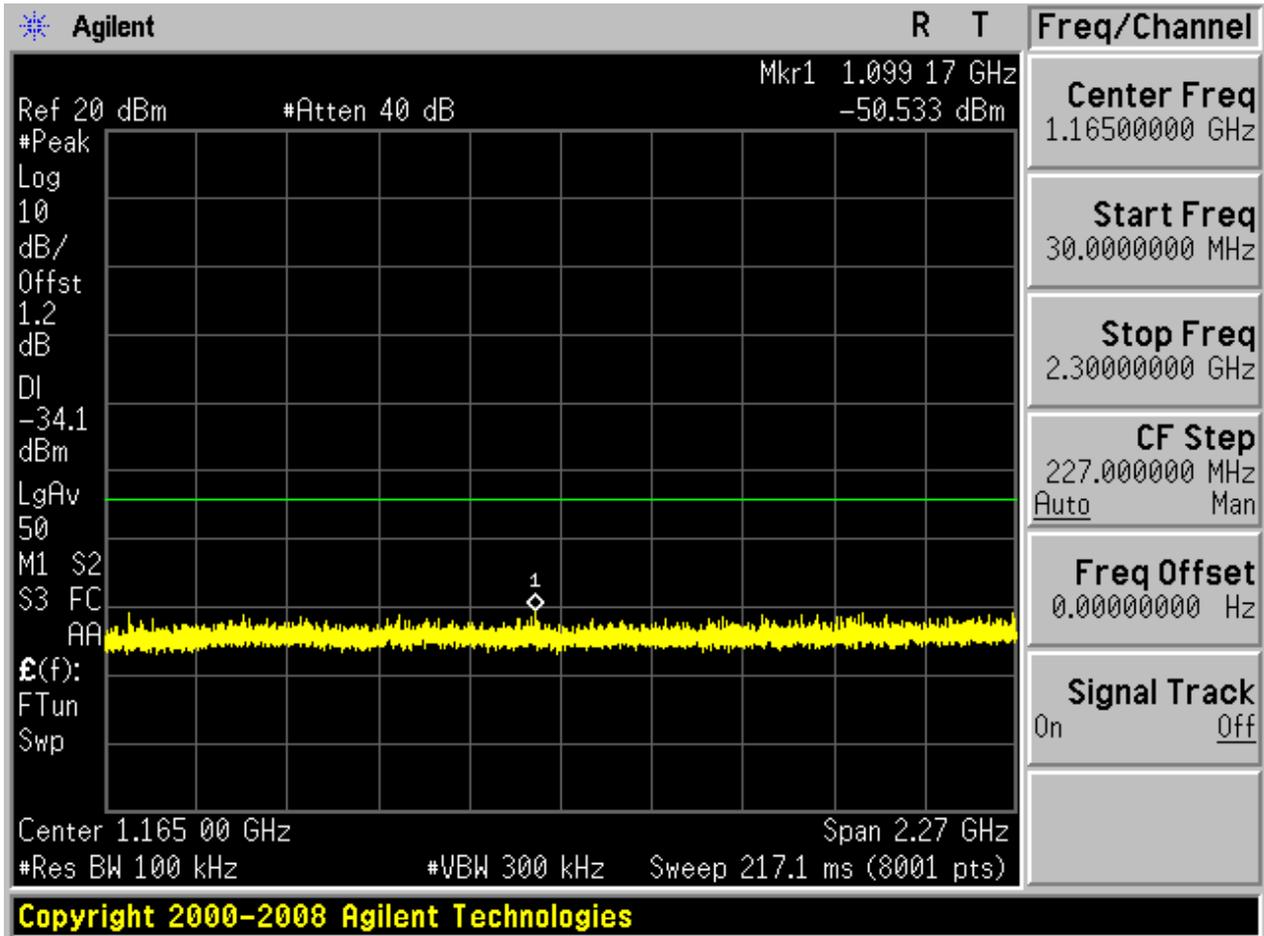


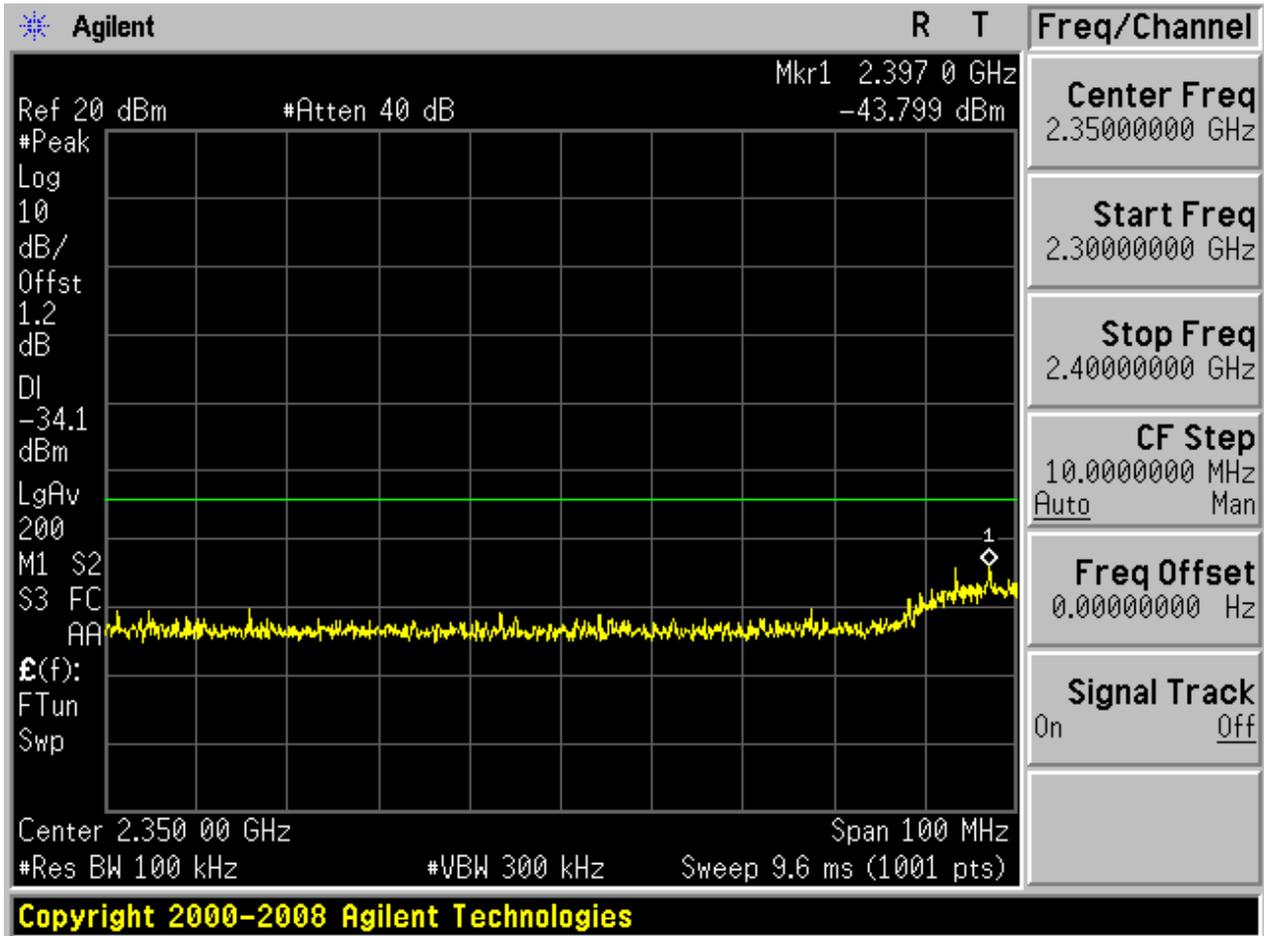


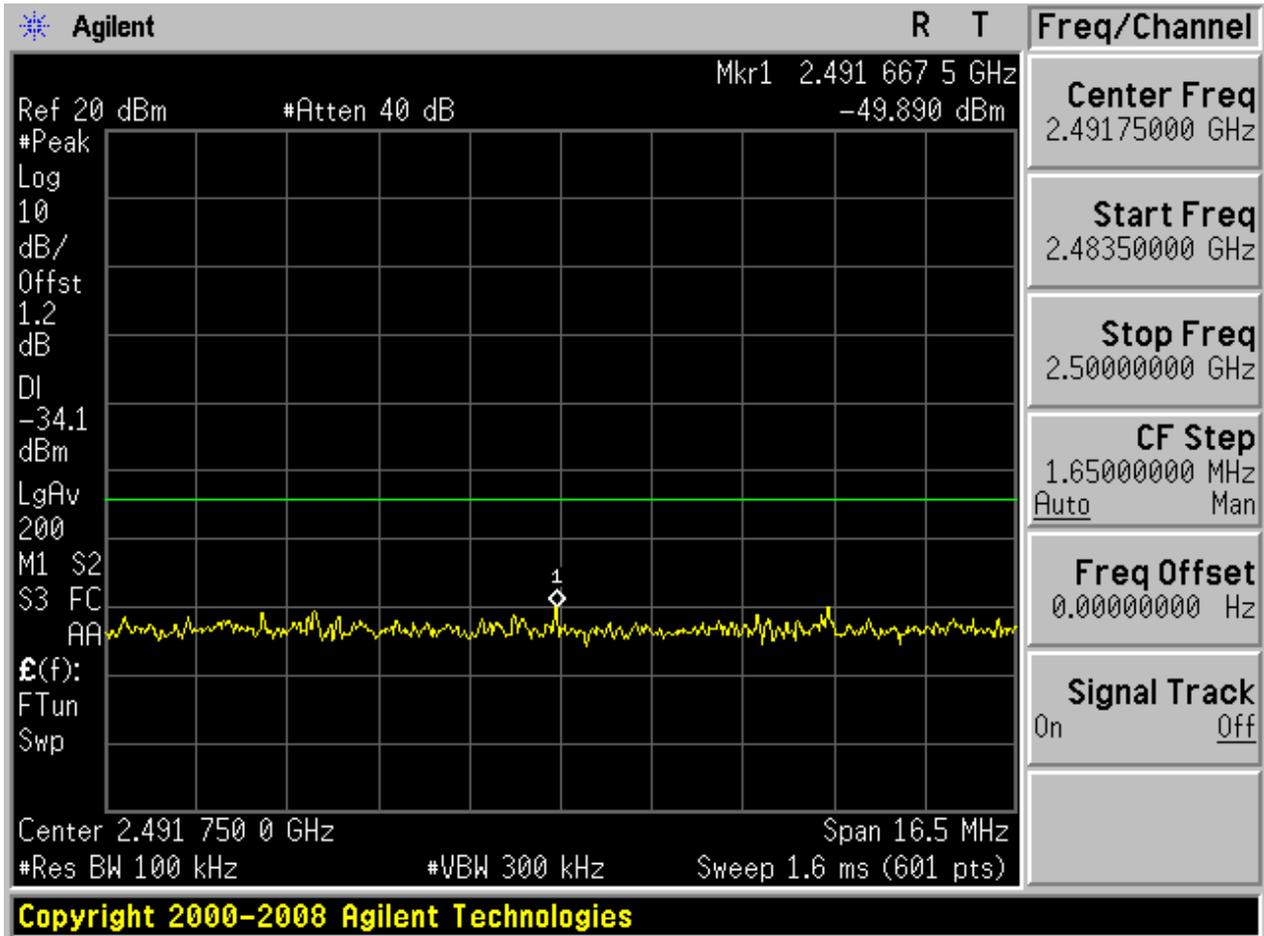
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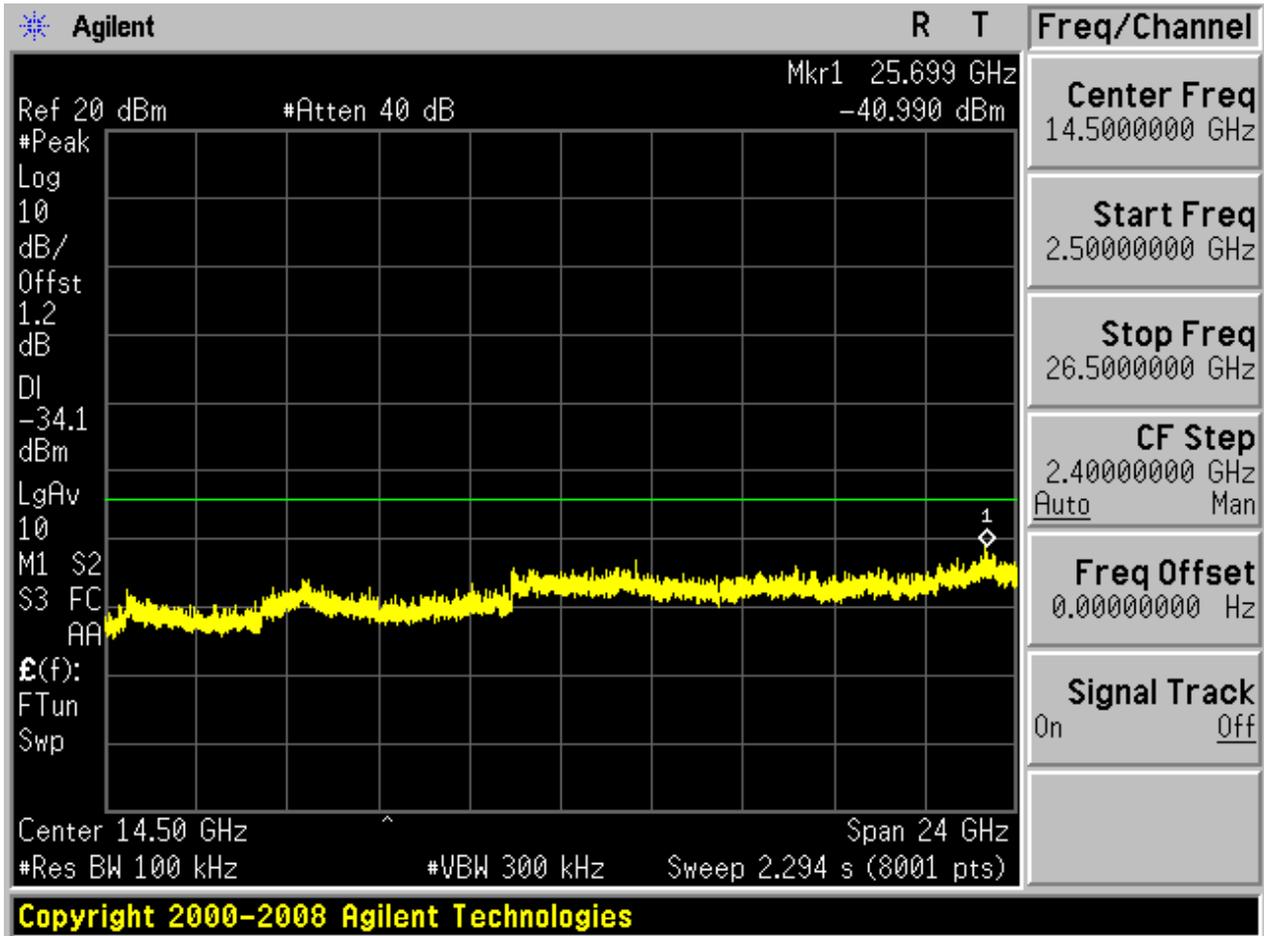








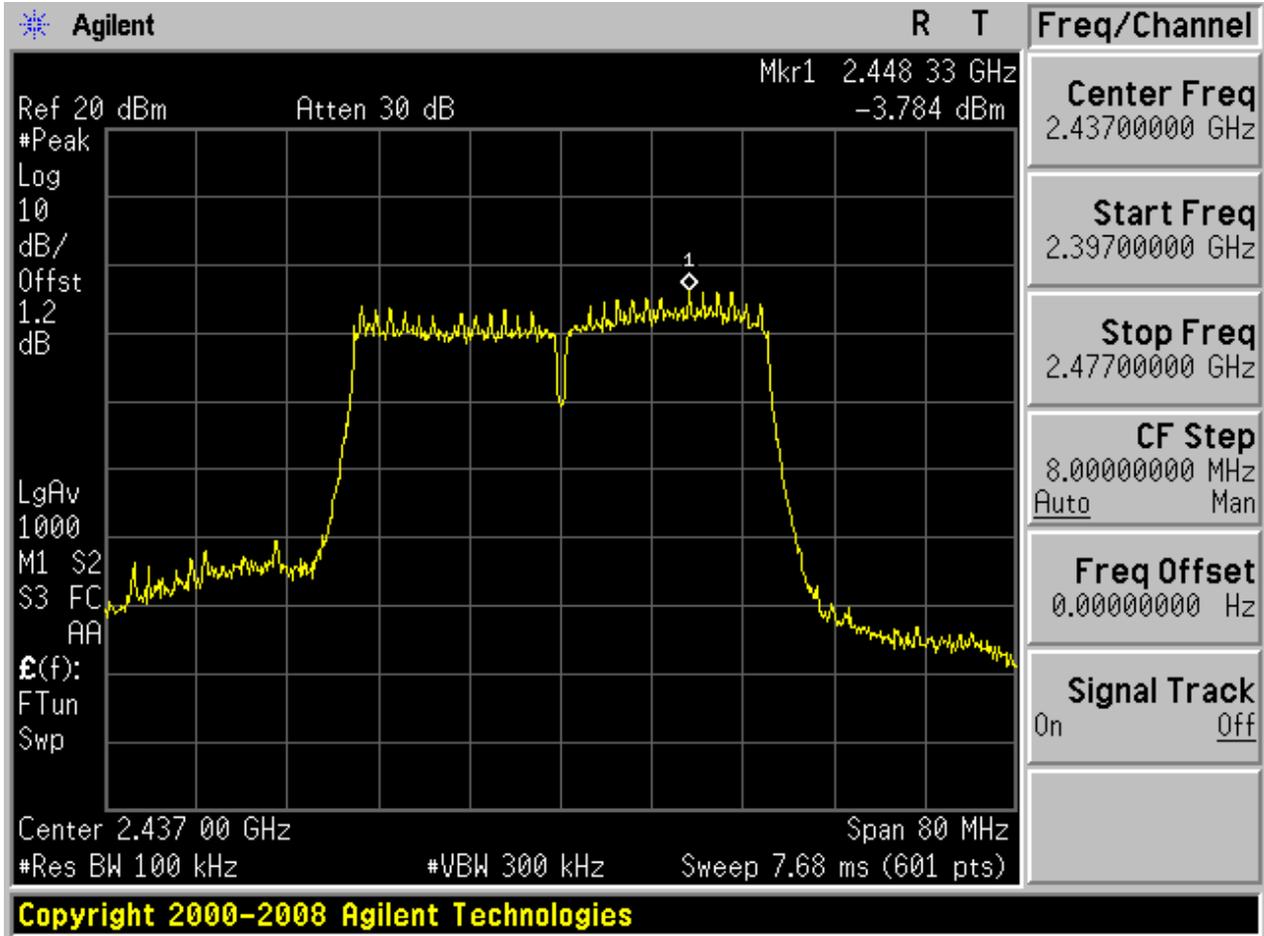






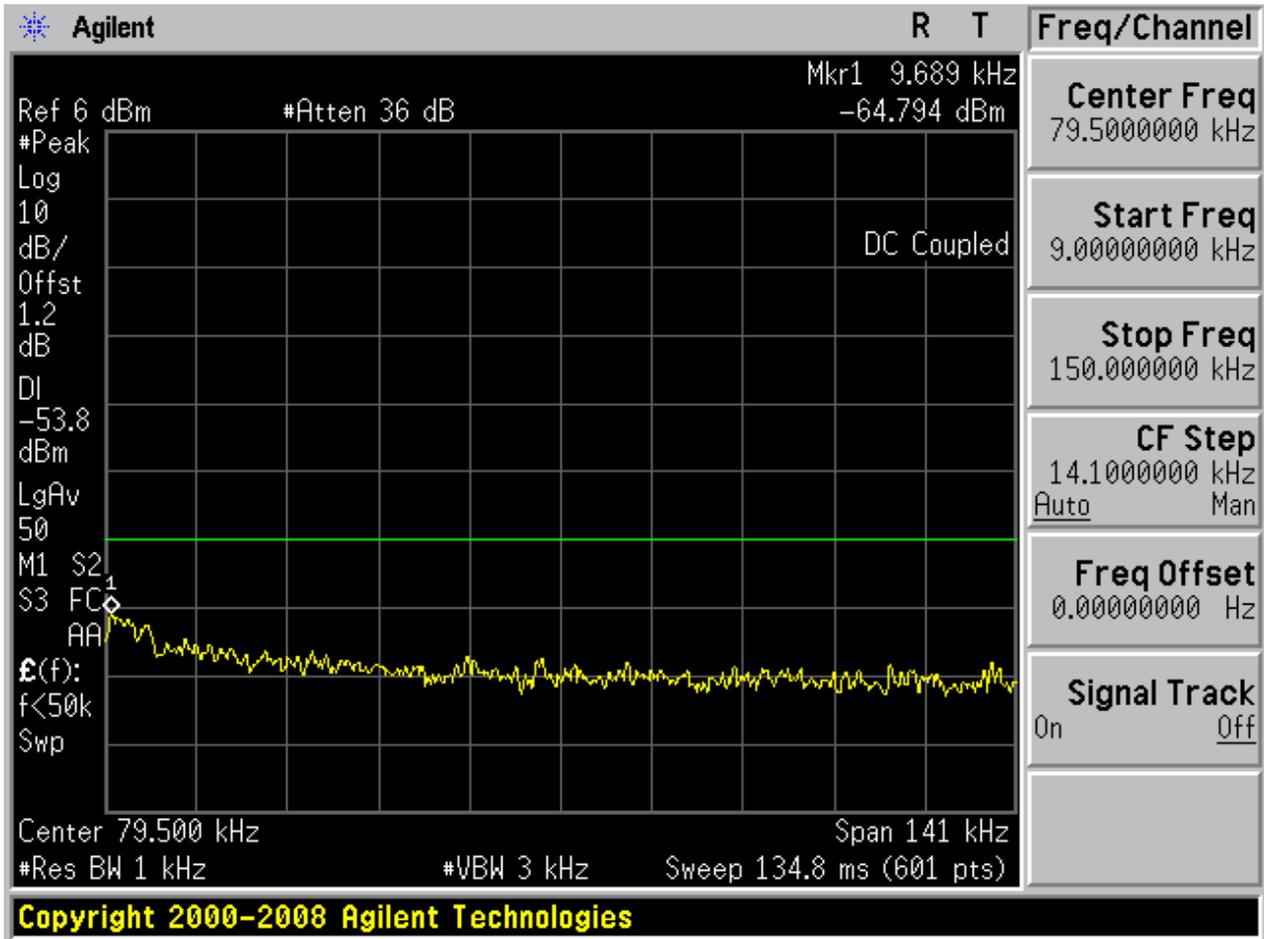
2.34 11N40m_M@Ant 1

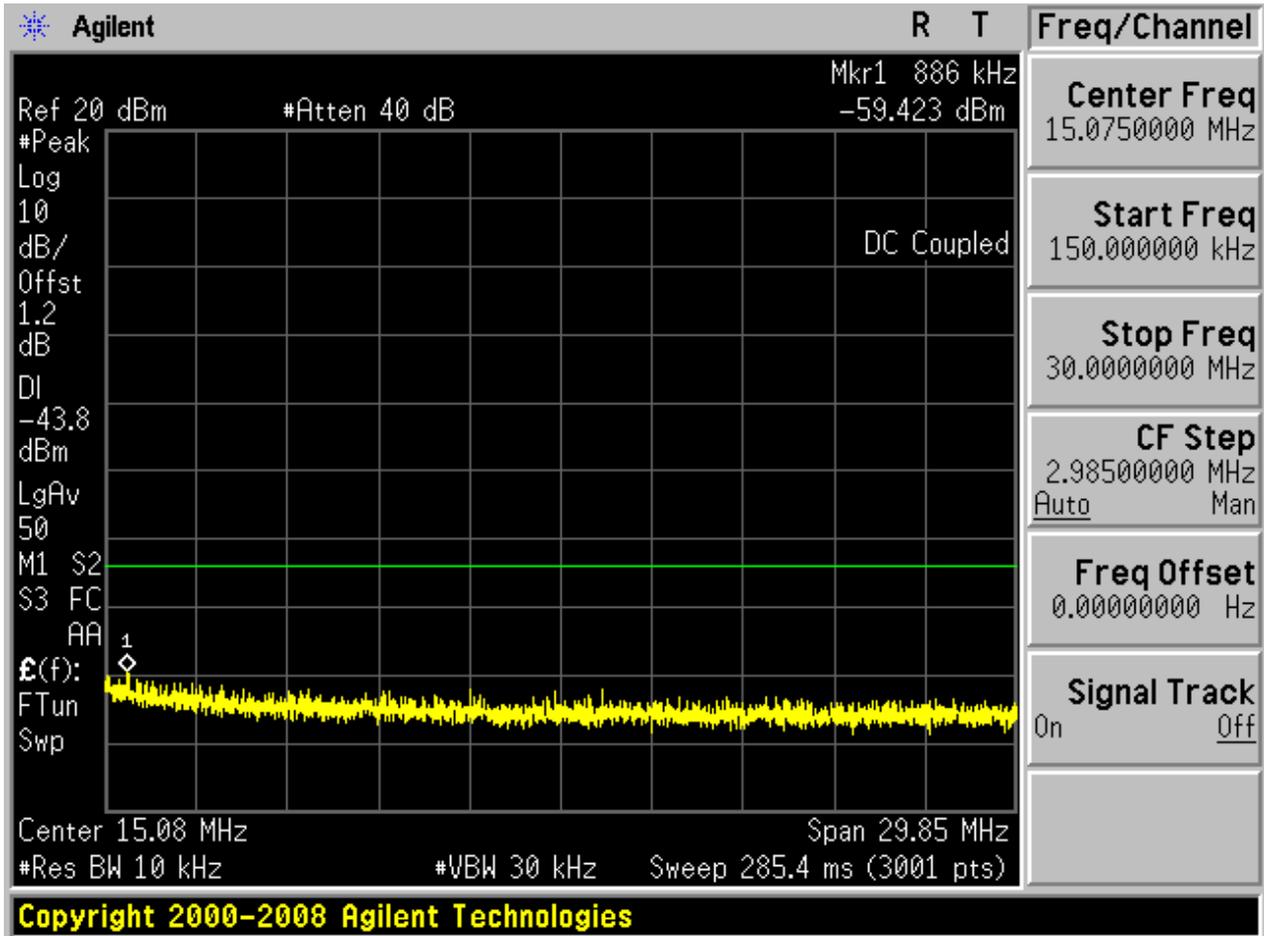
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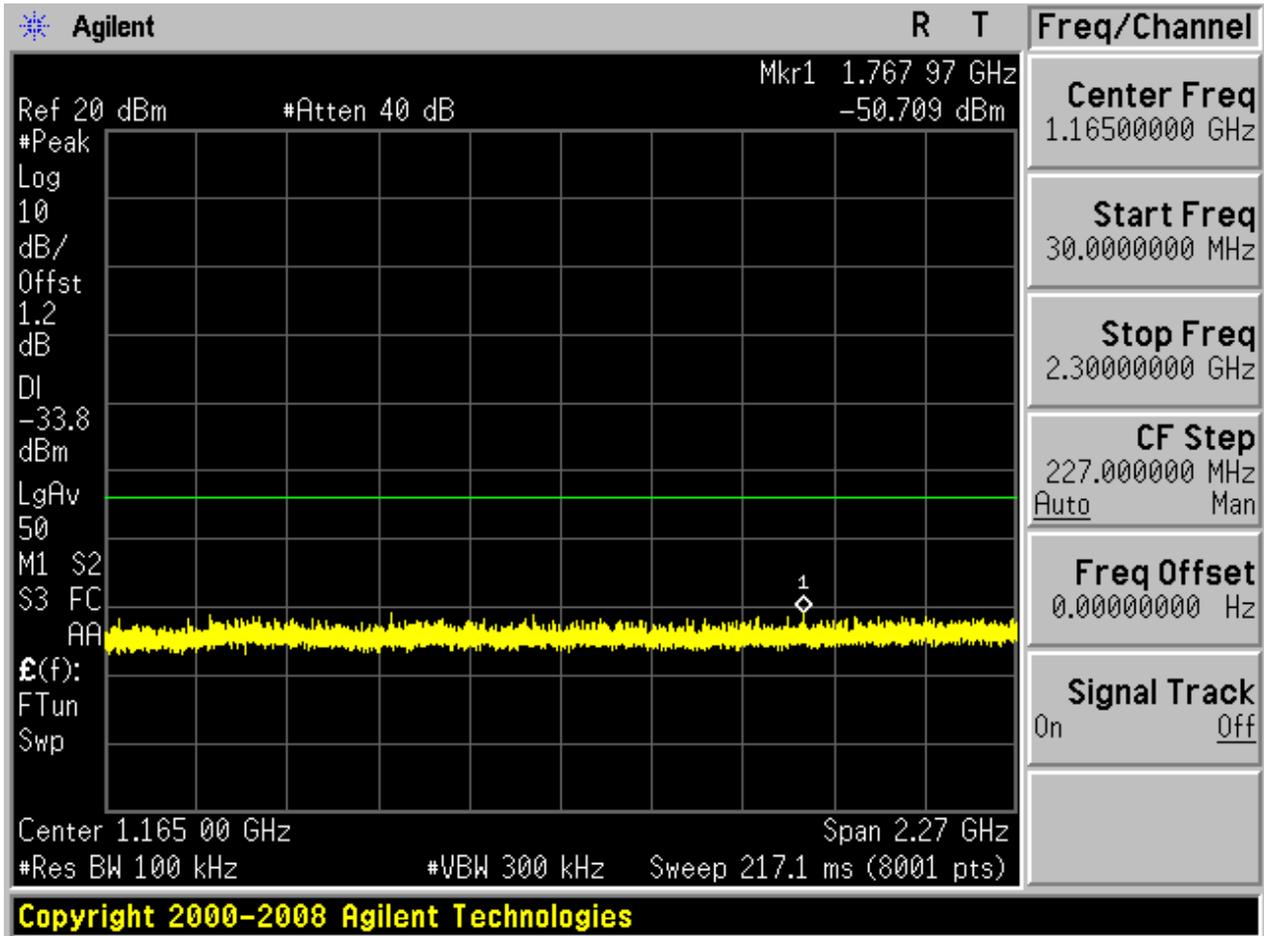


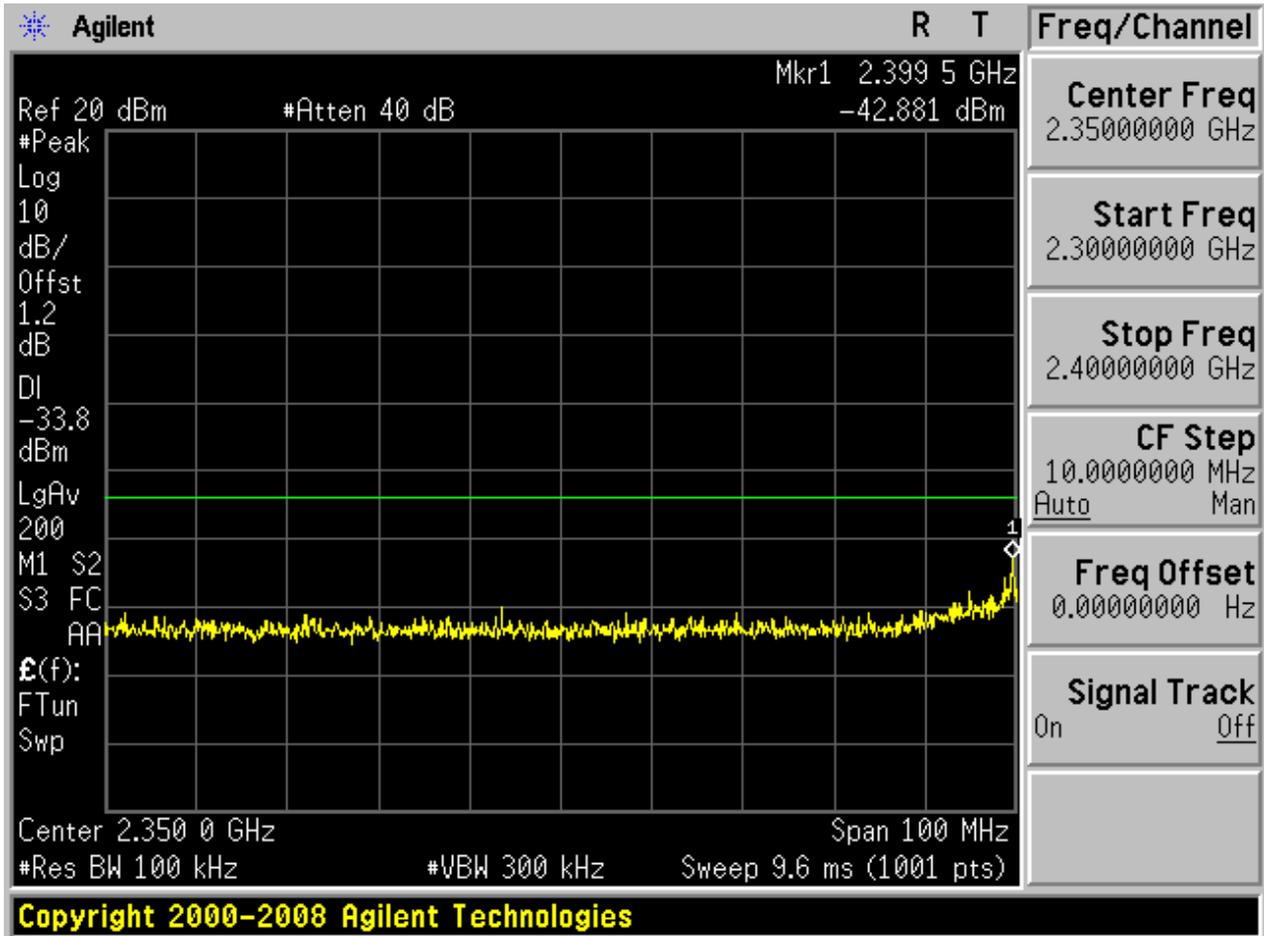


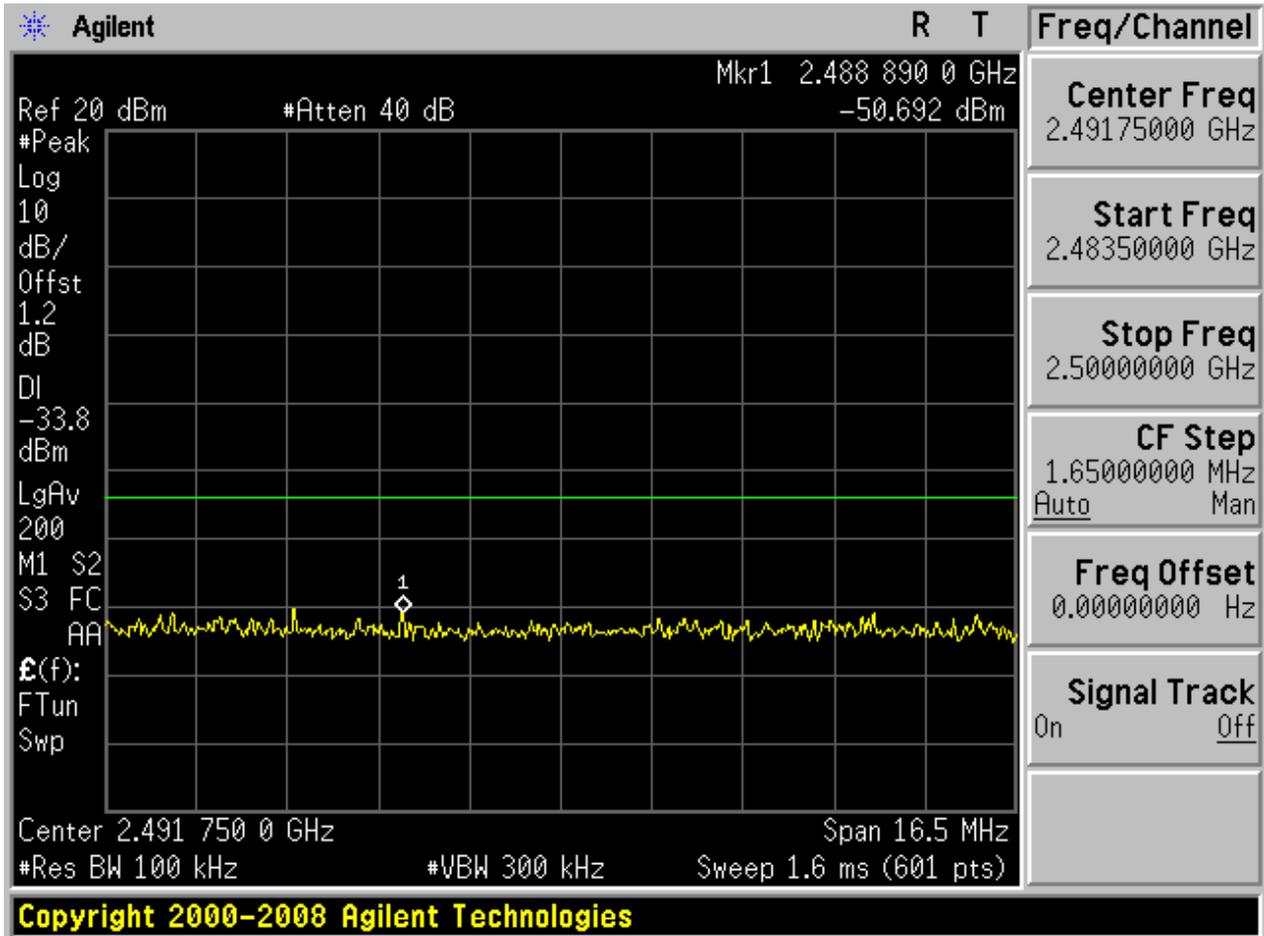
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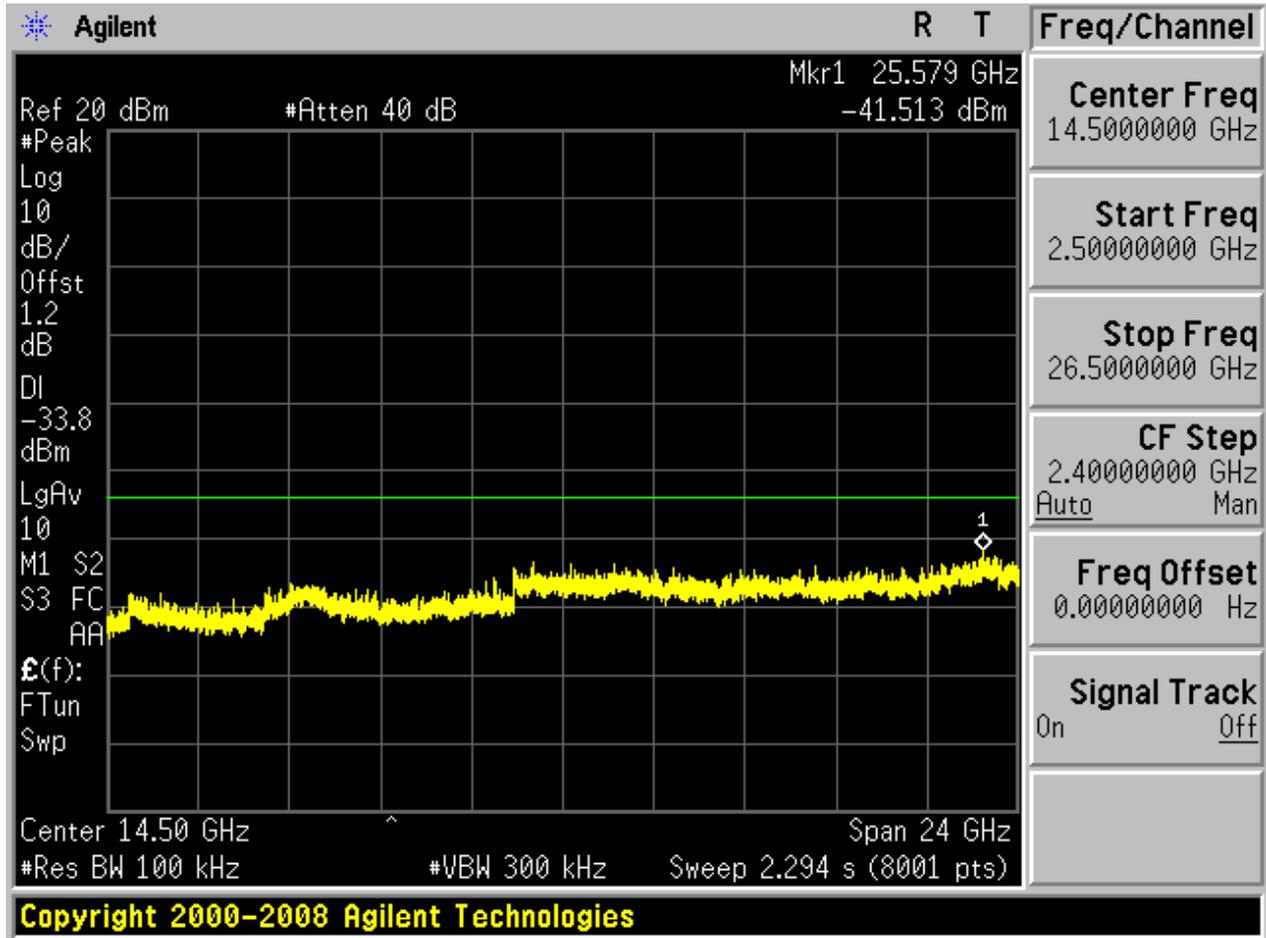








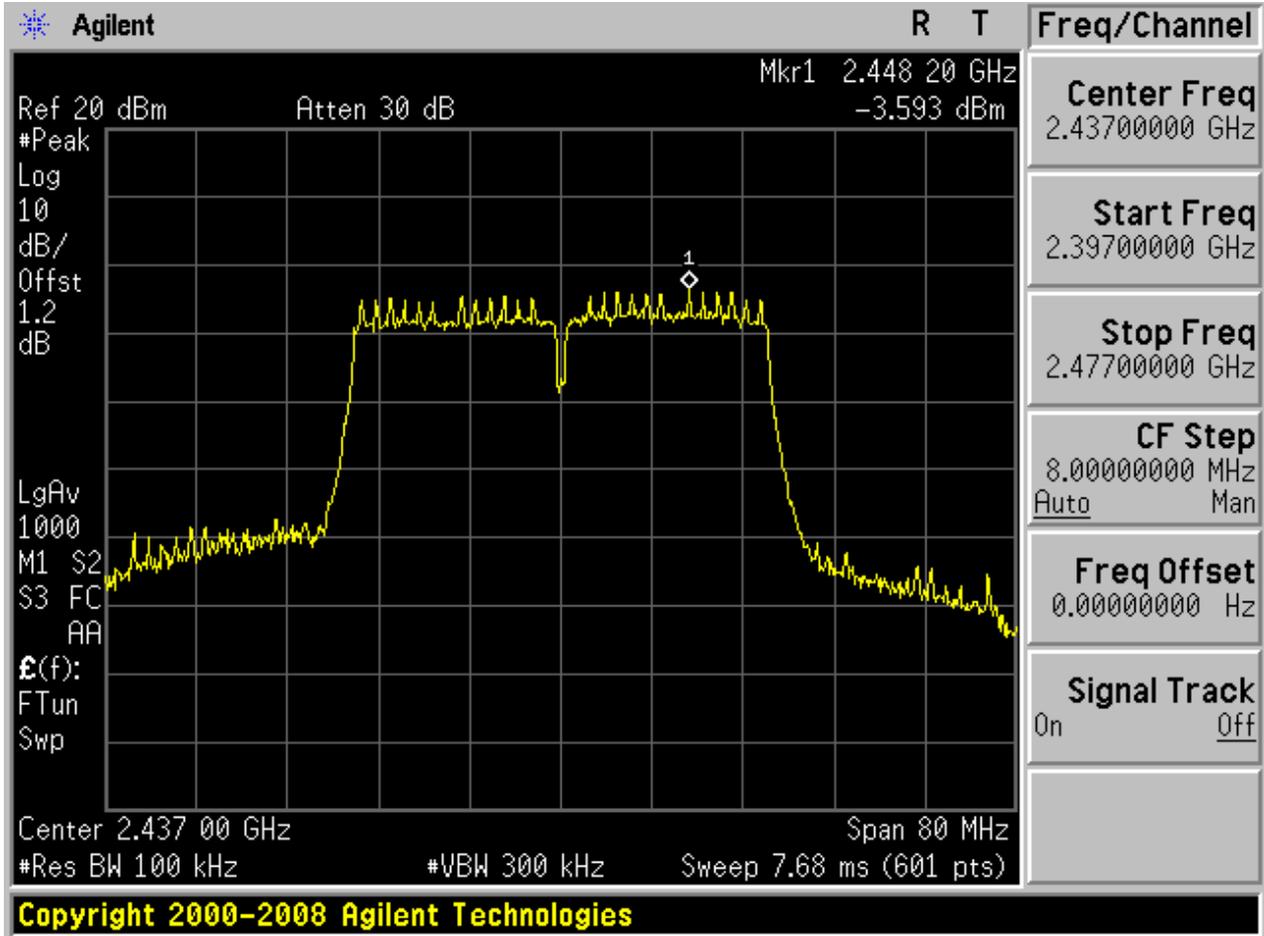






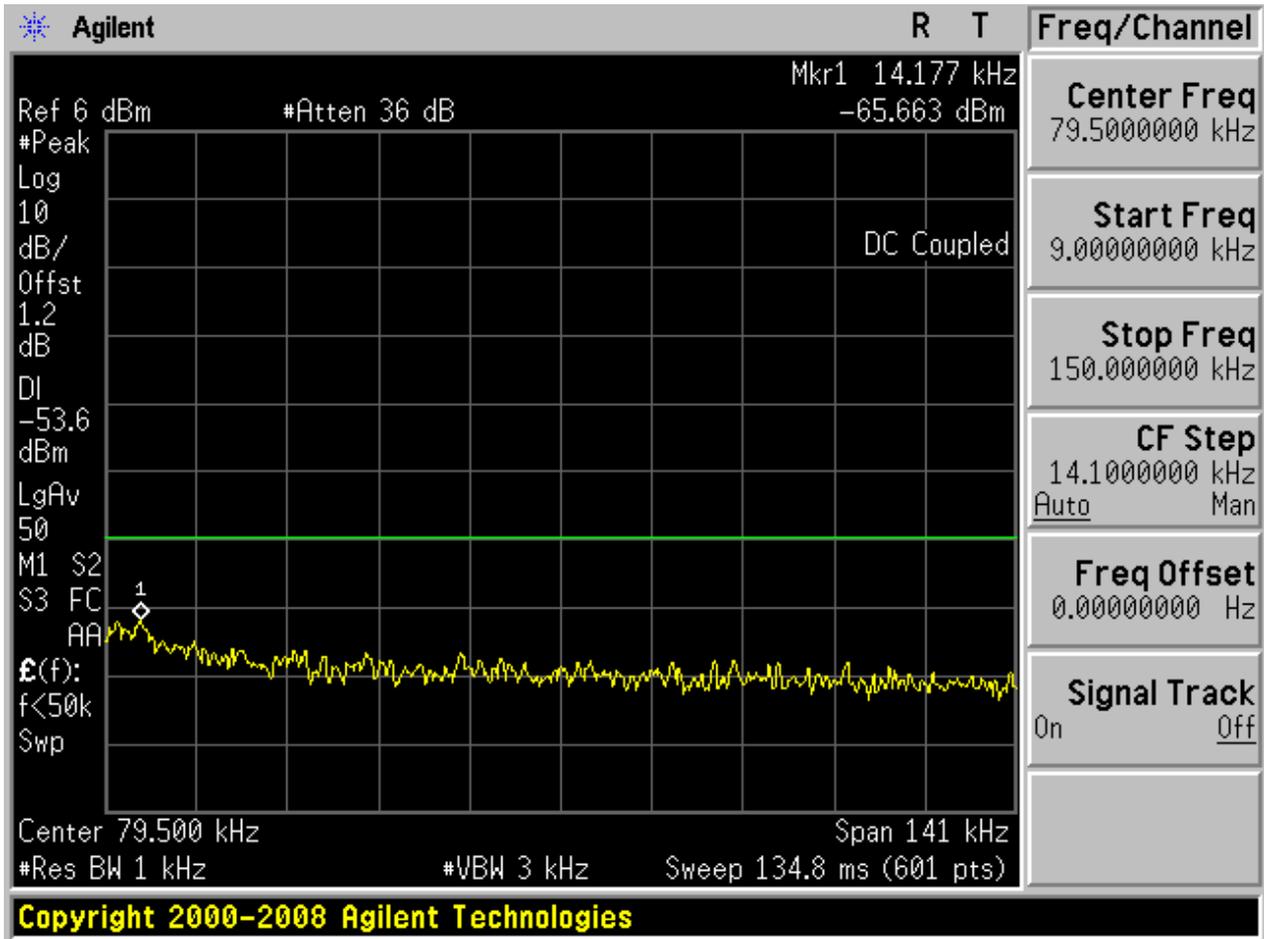
2.33 11N40m_M@Ant 2

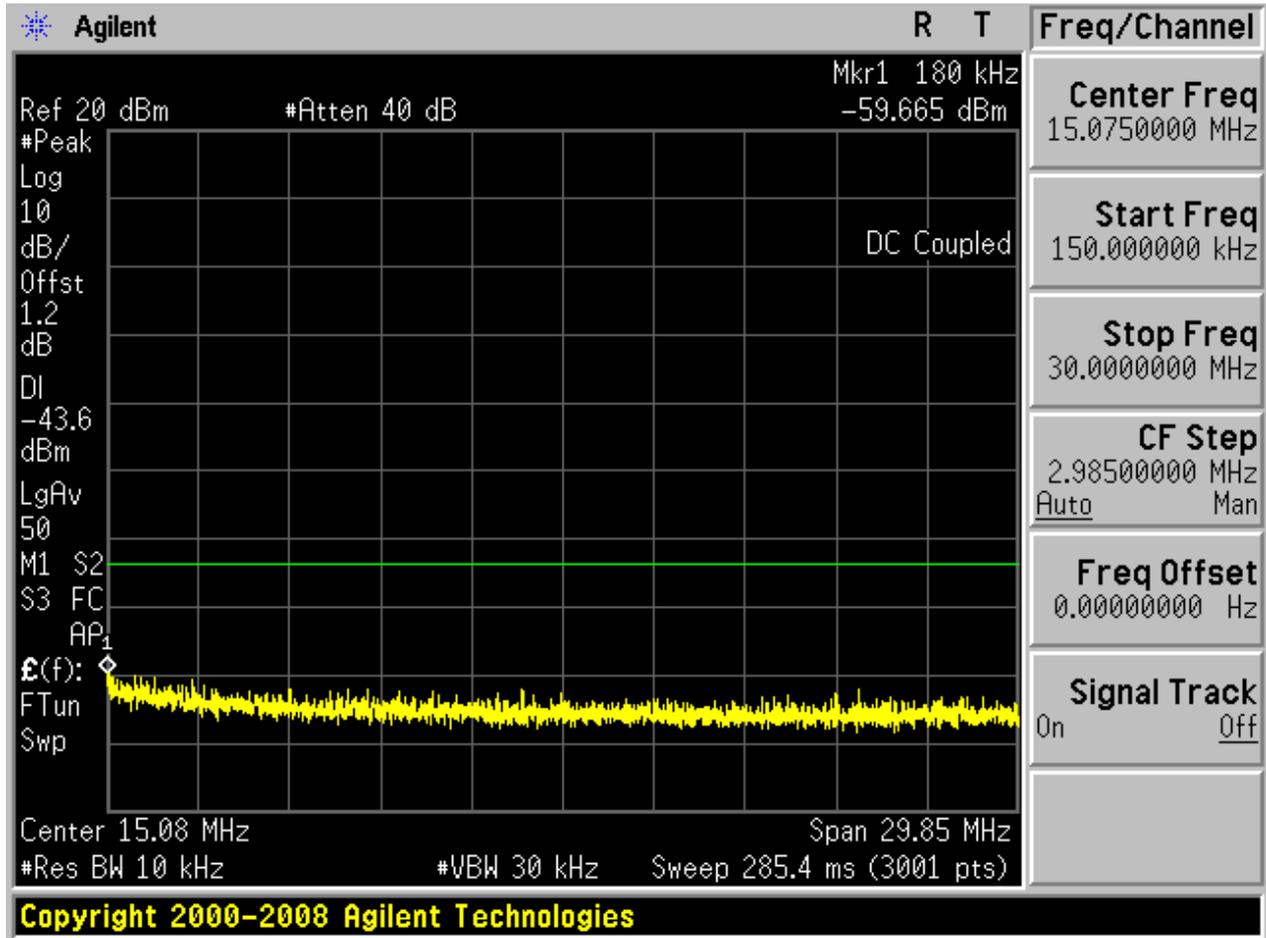
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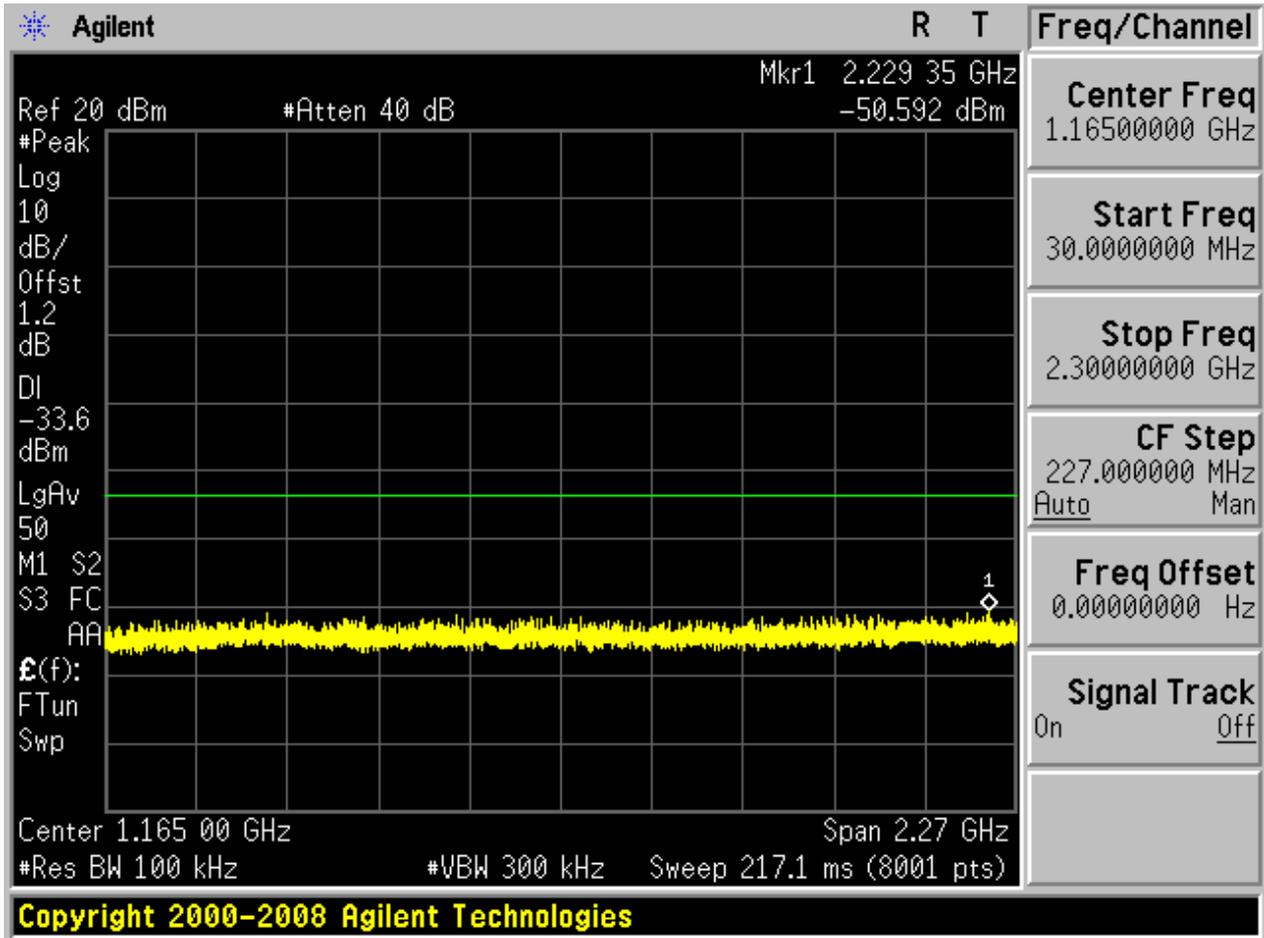


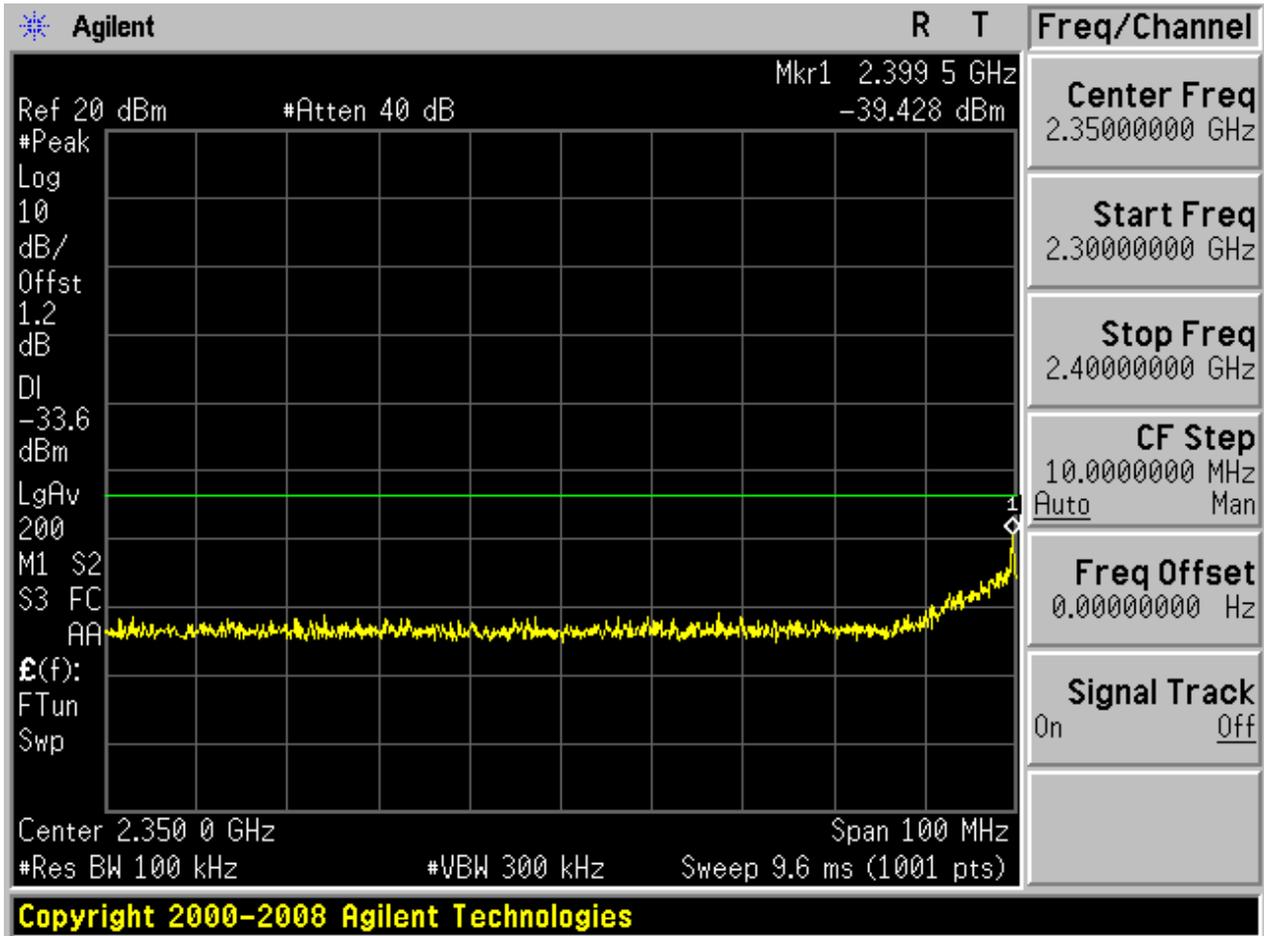


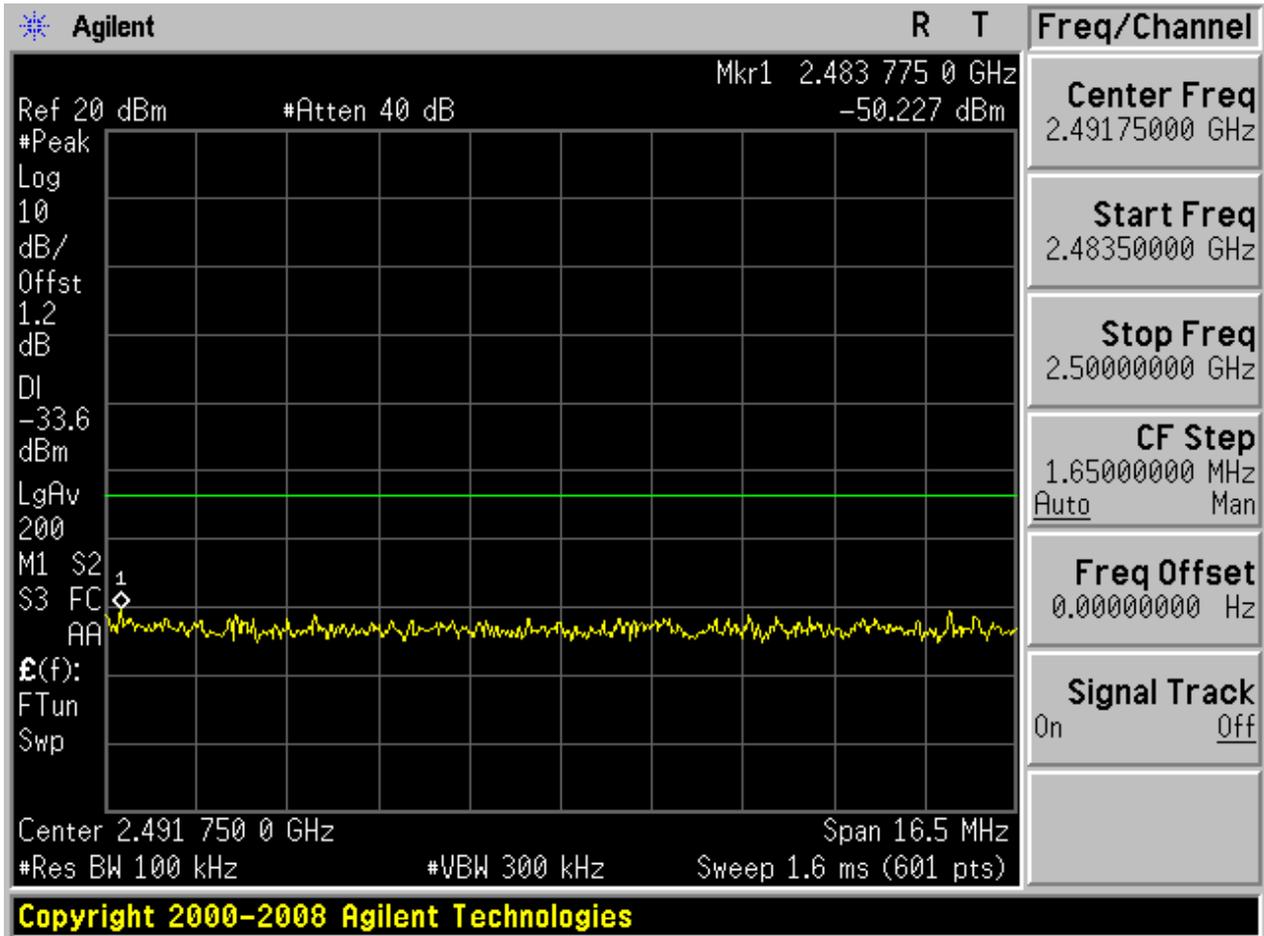
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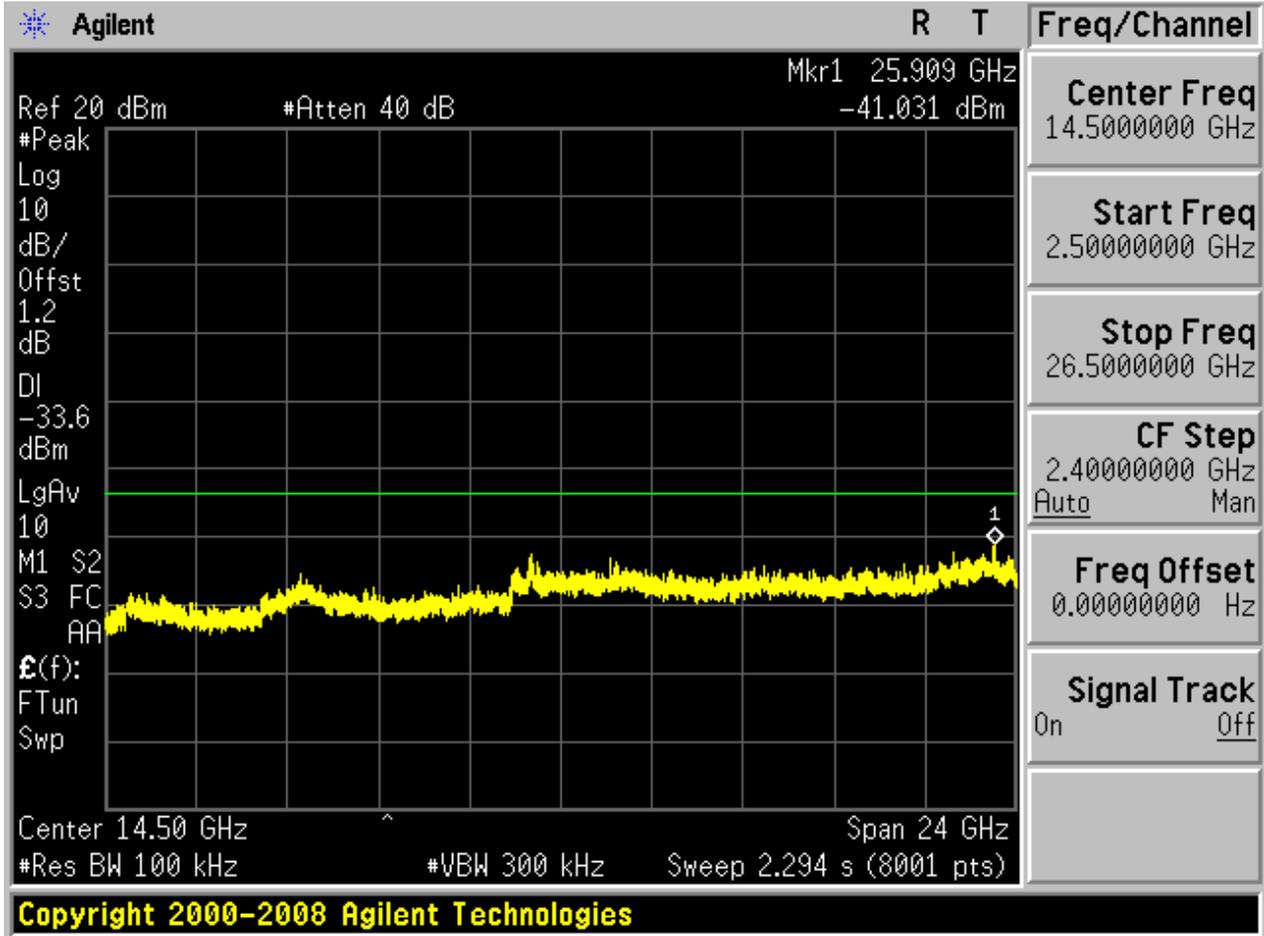








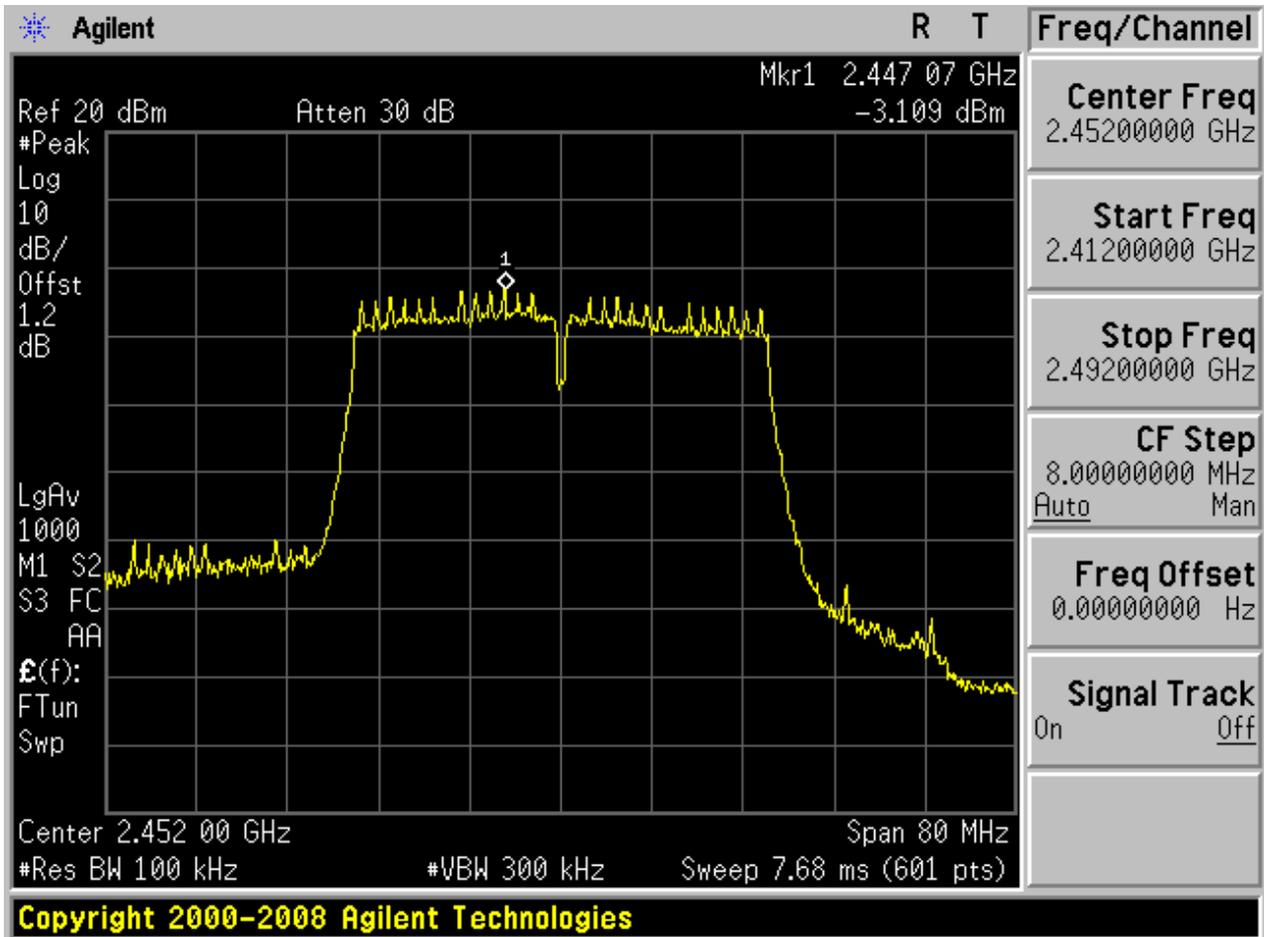






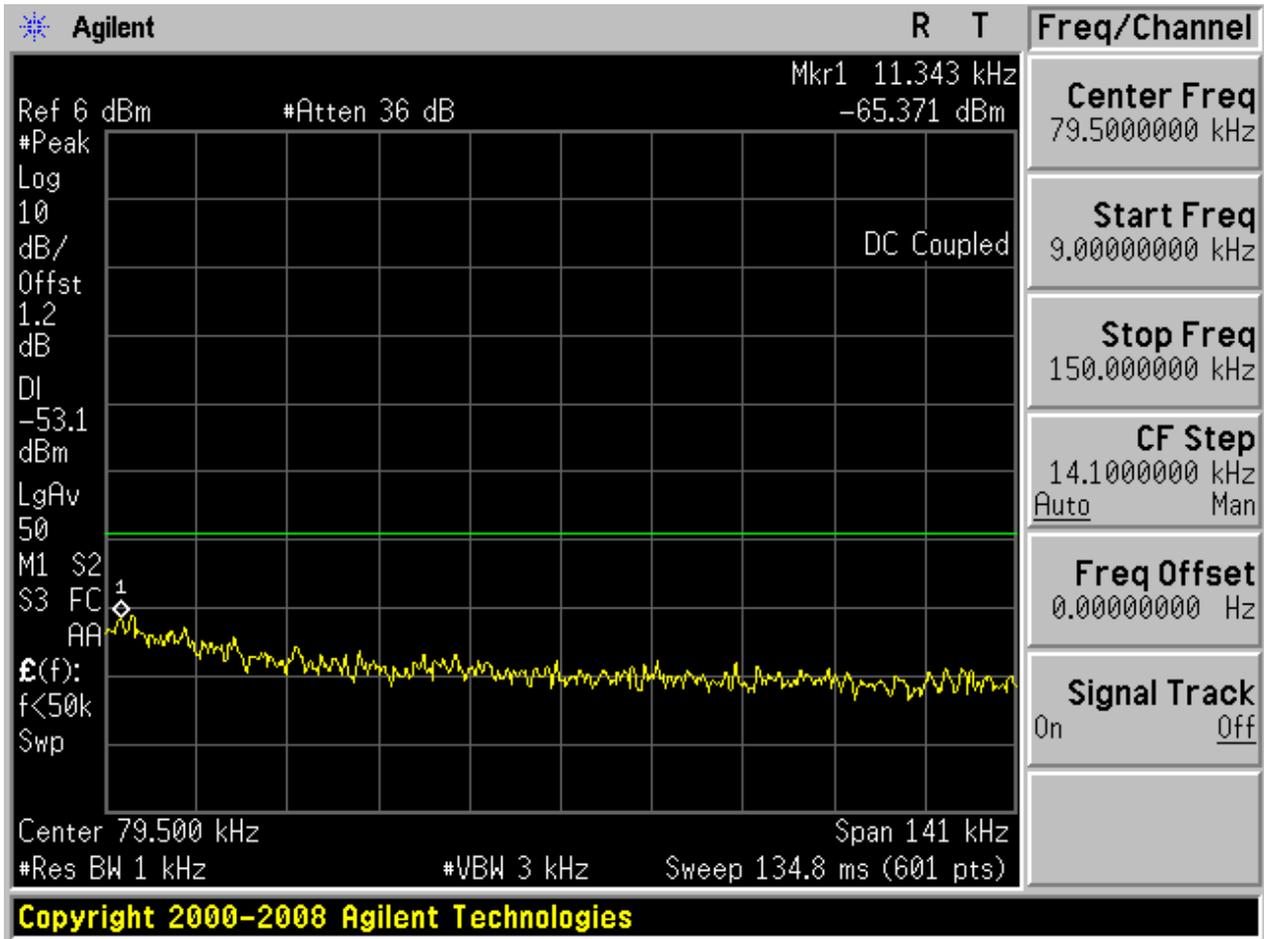
2.35 11N40m_H@Ant 1

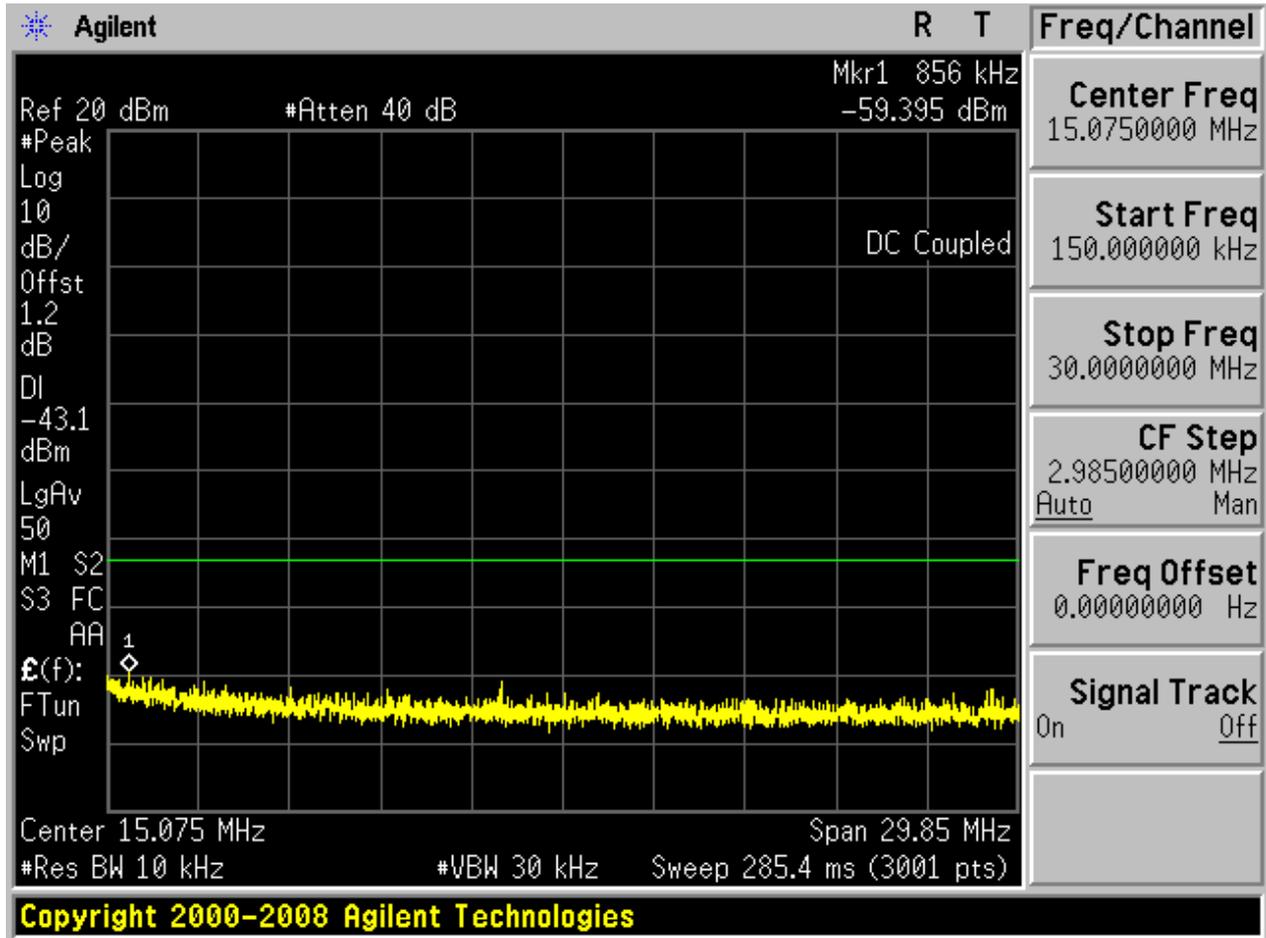
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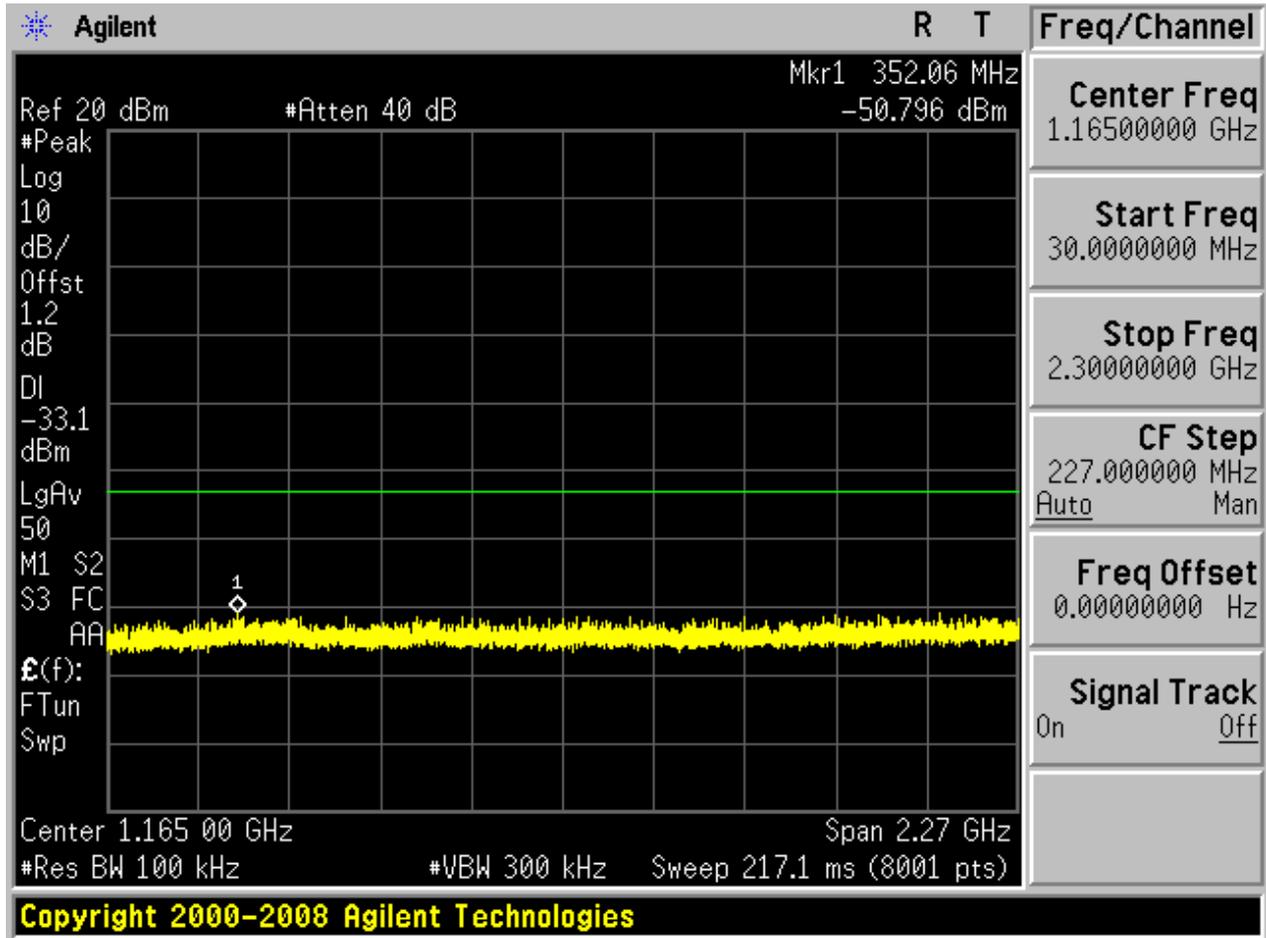


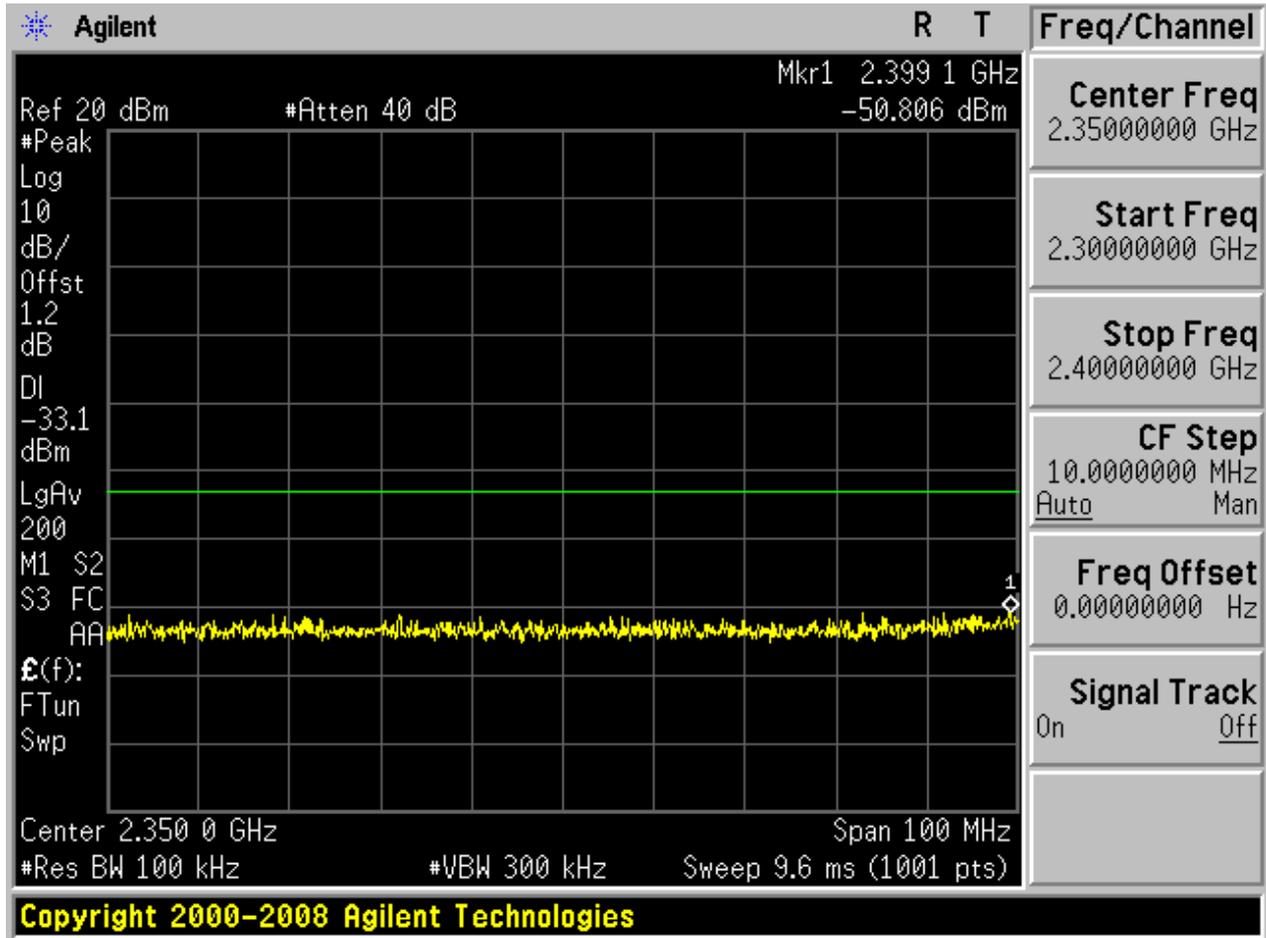


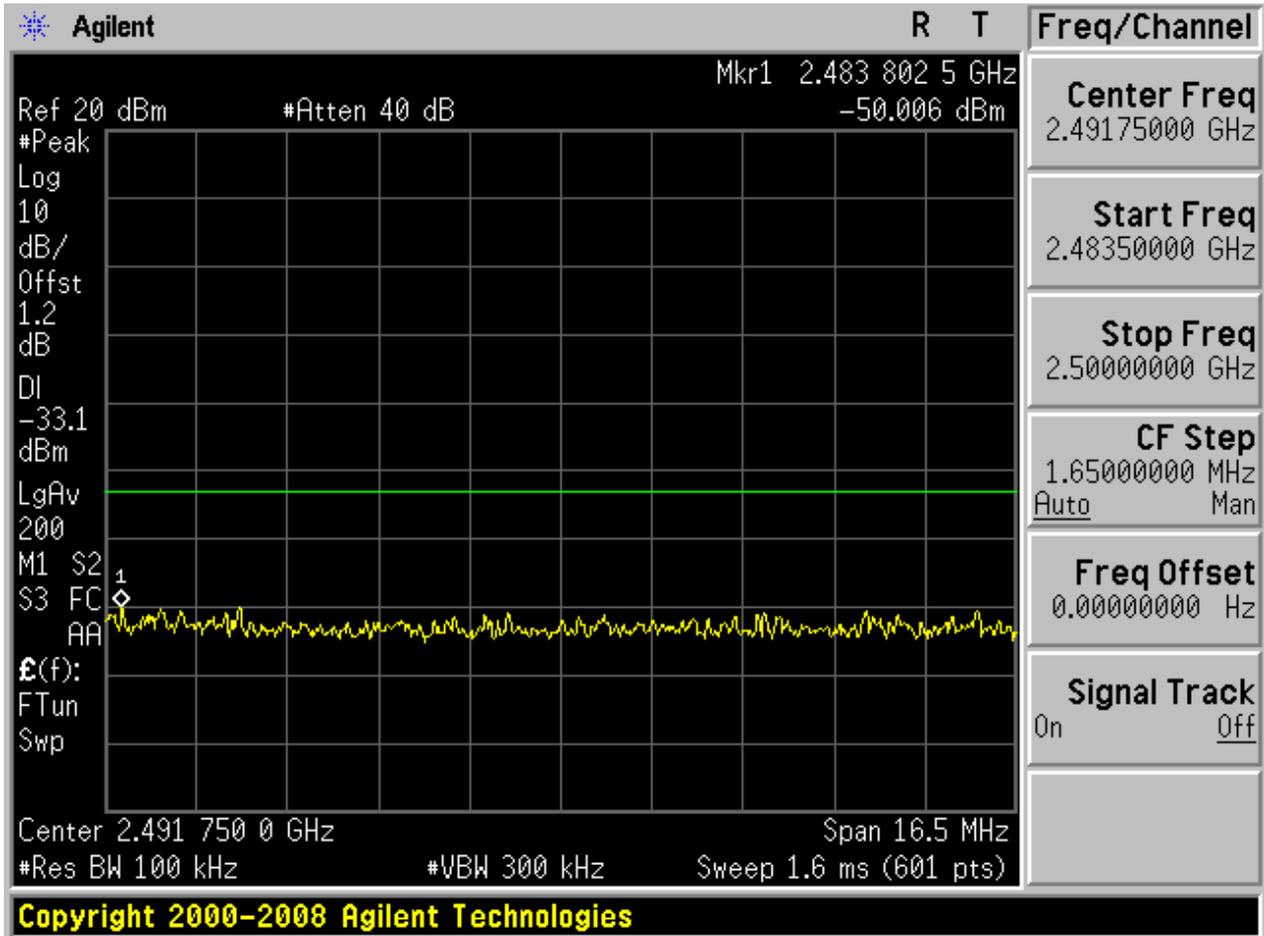
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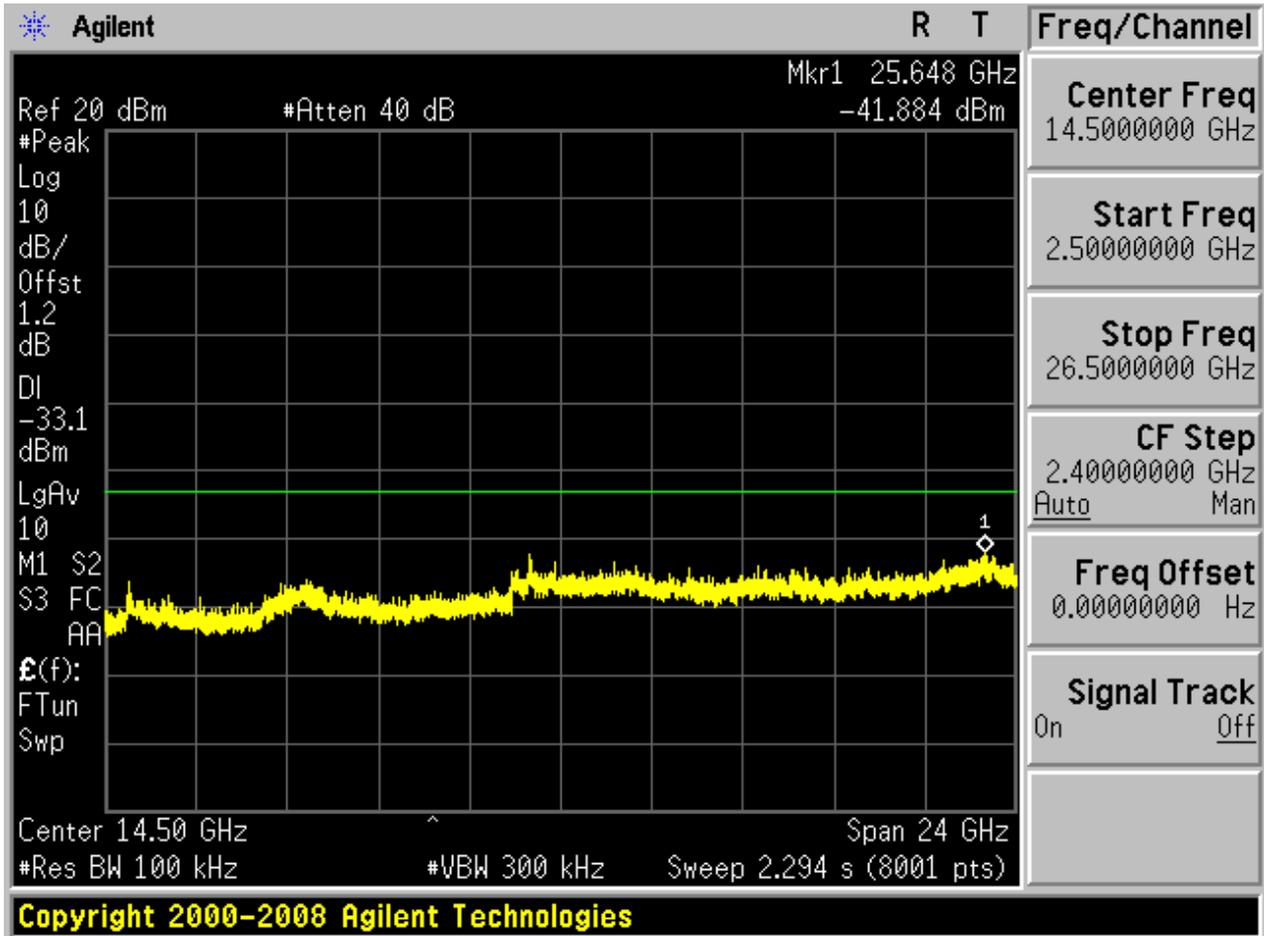








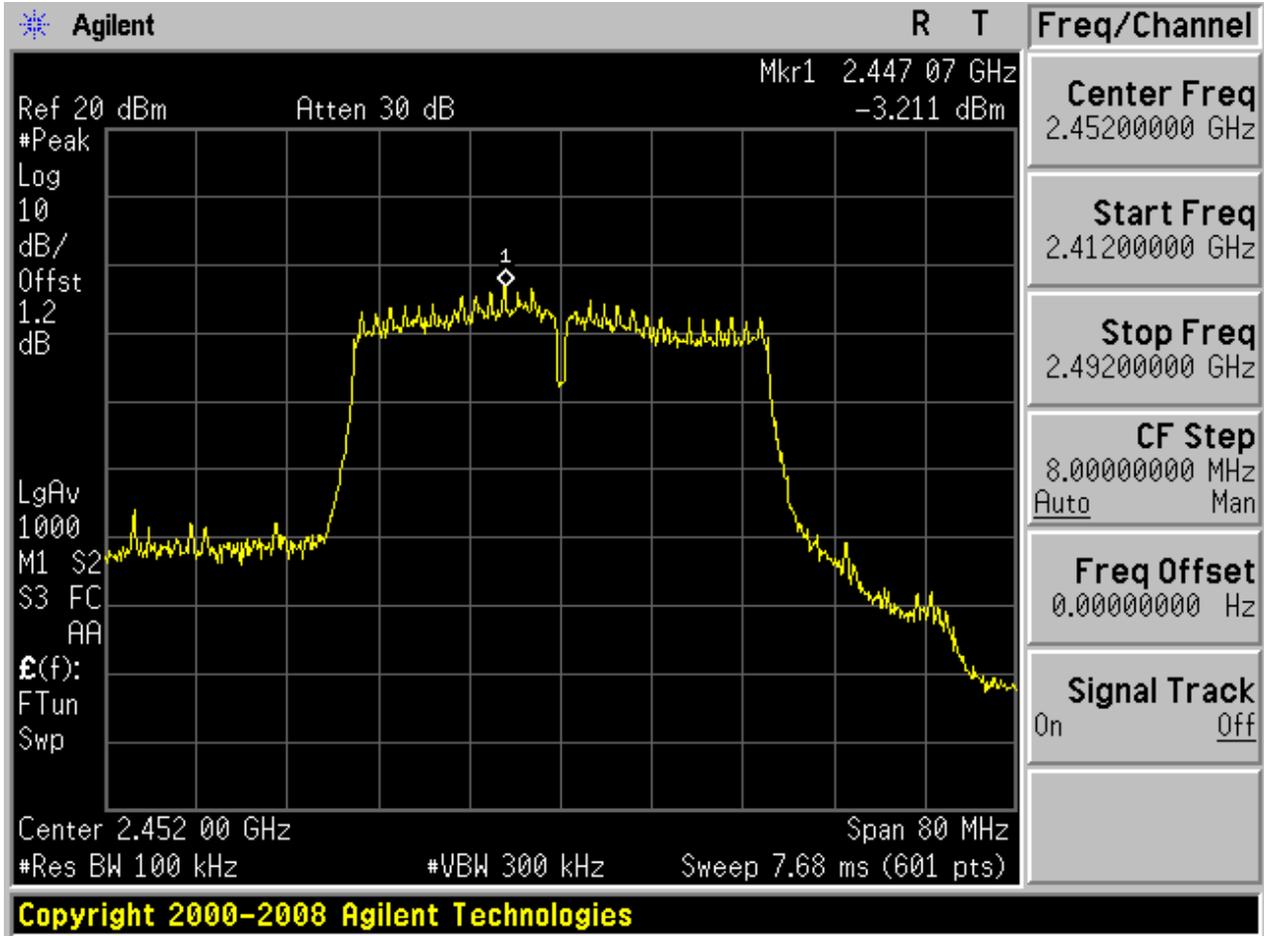






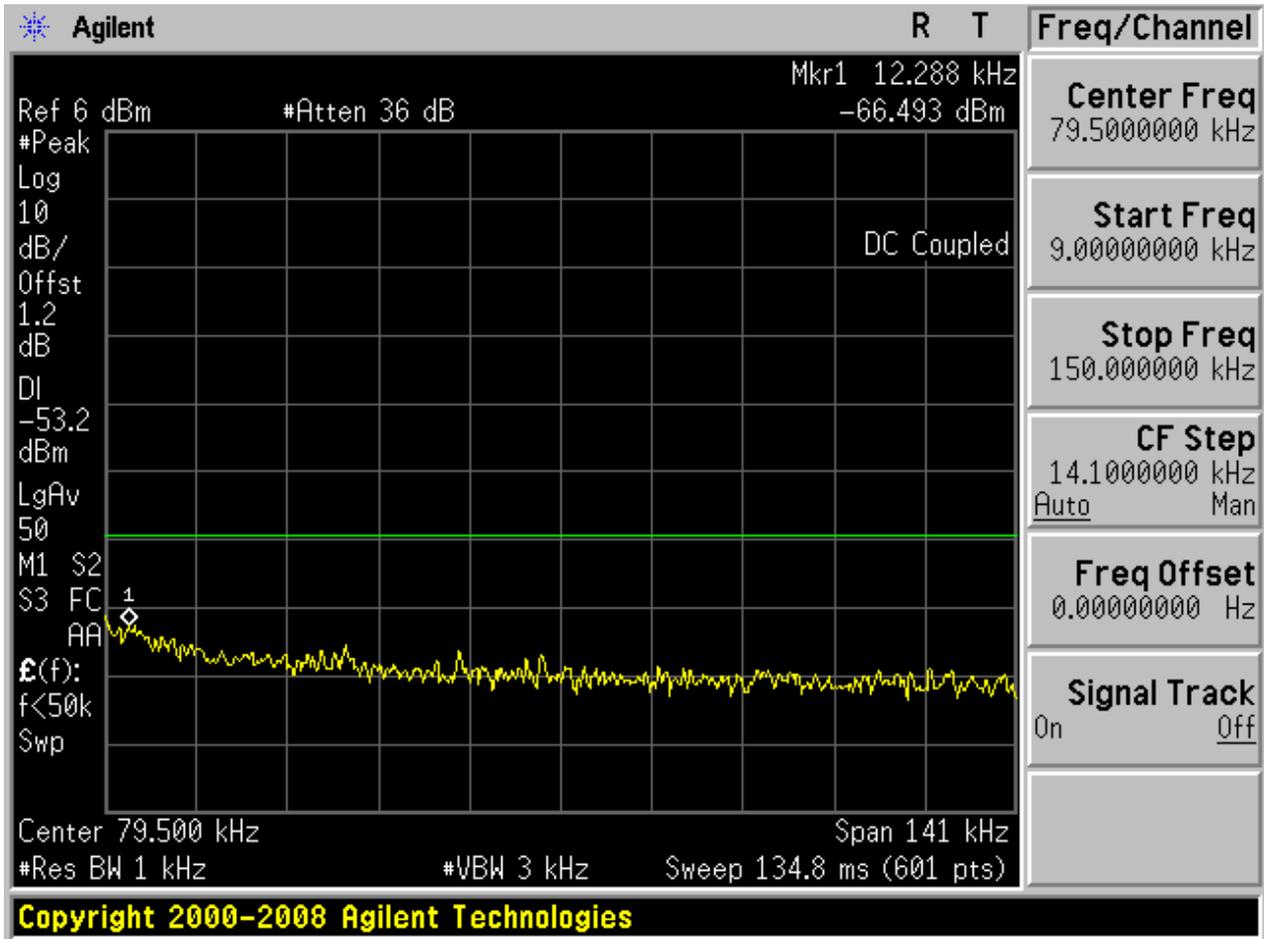
2.36 11N40m_H@Ant 2

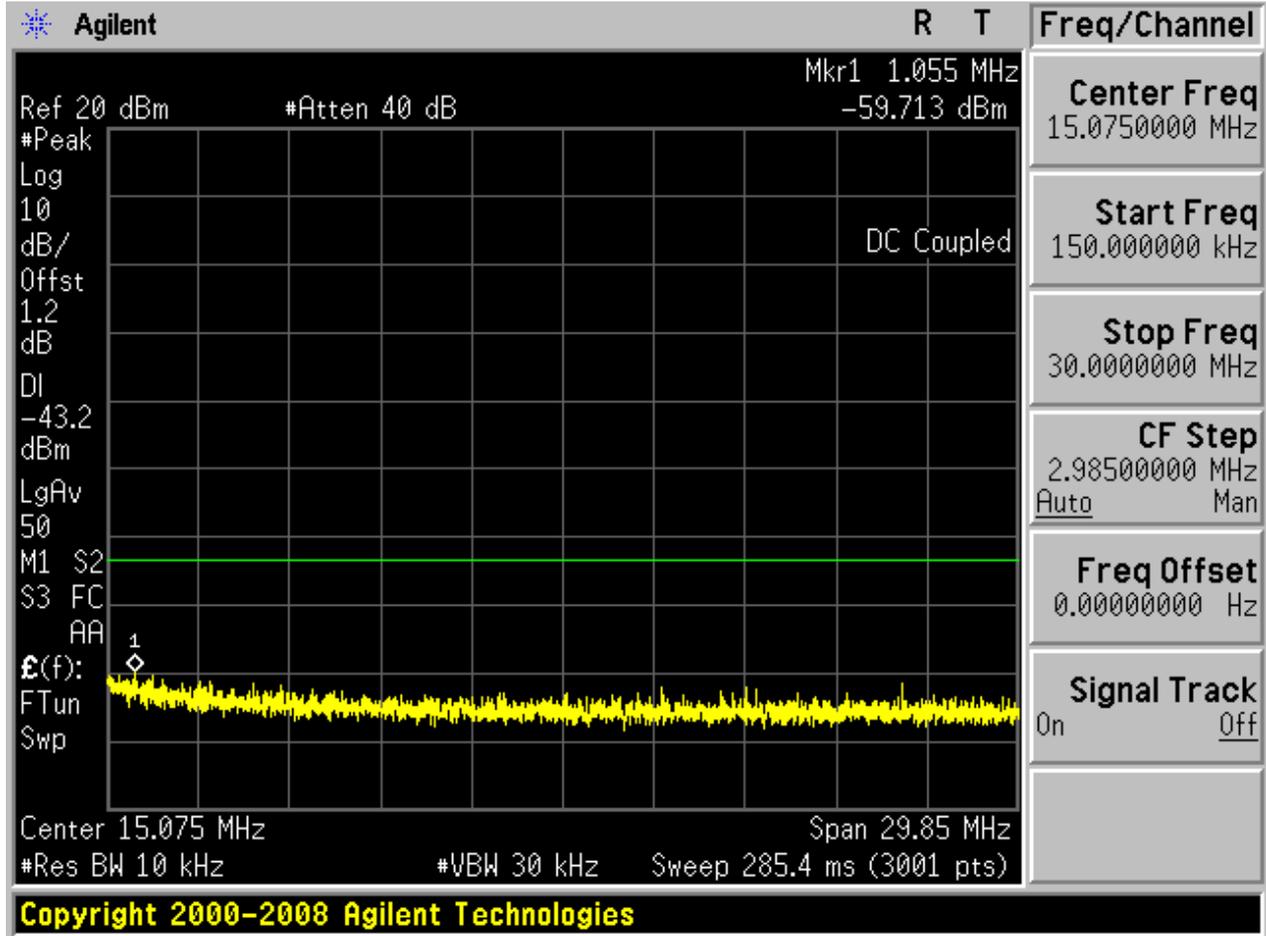
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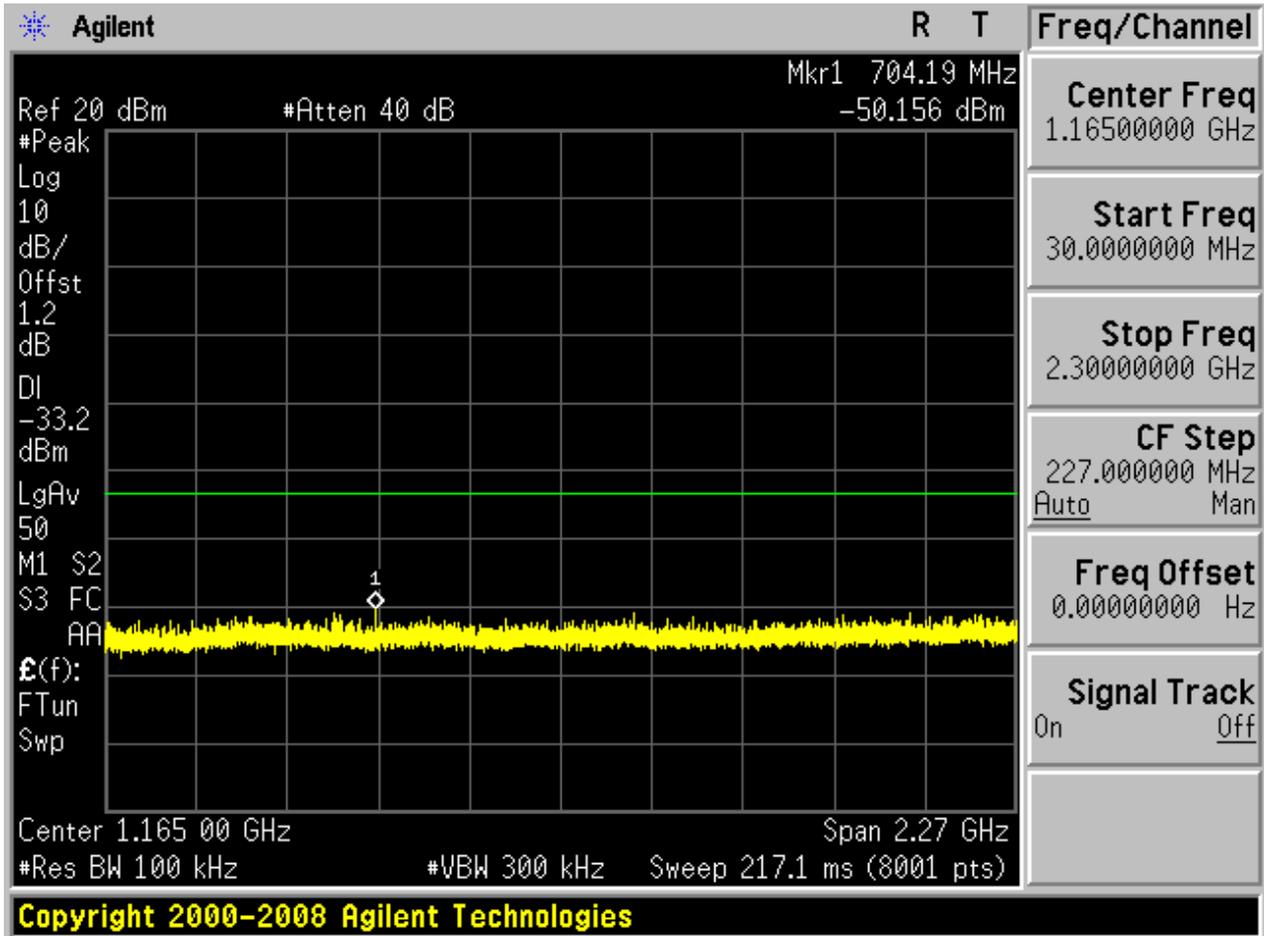


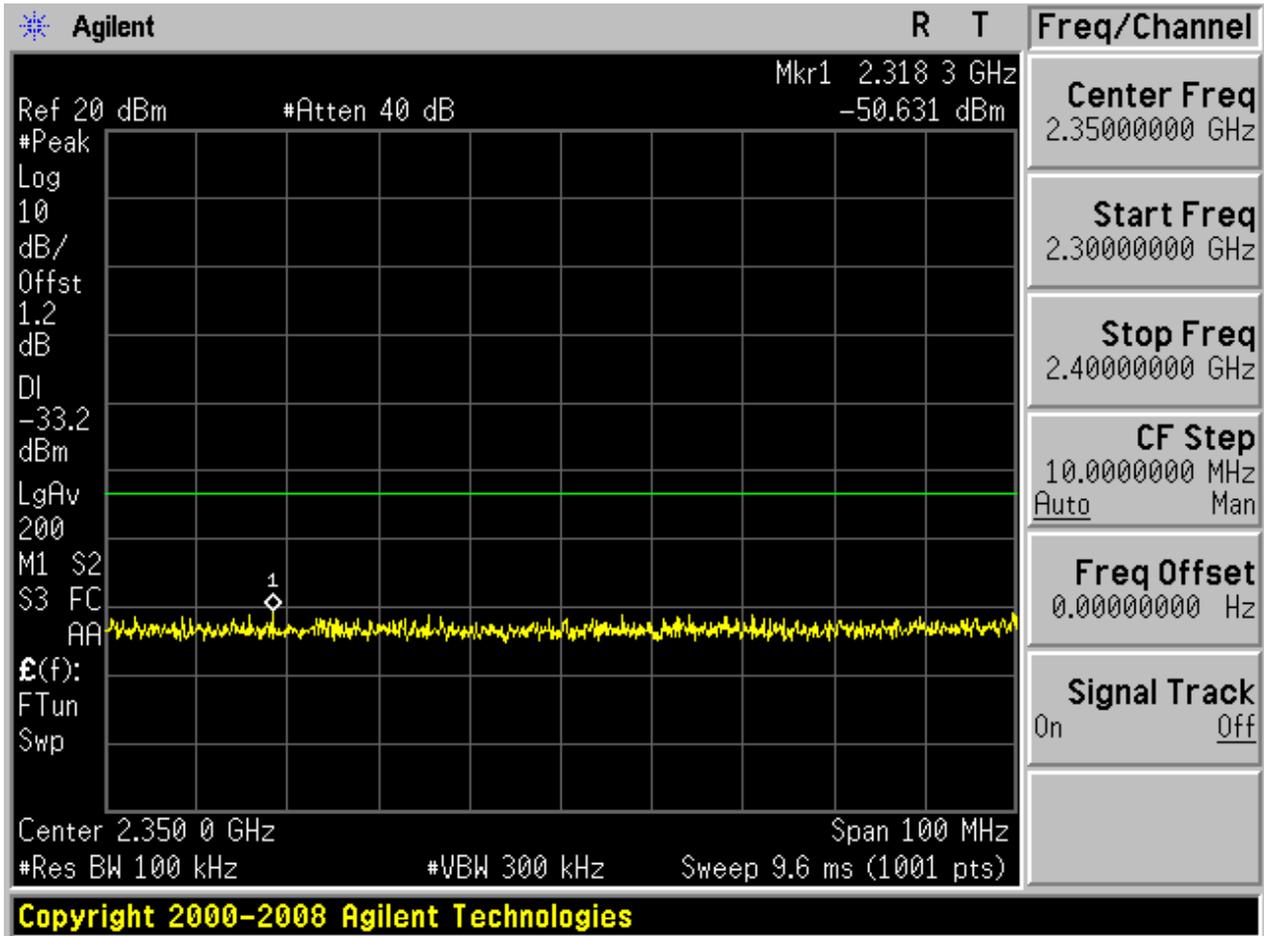


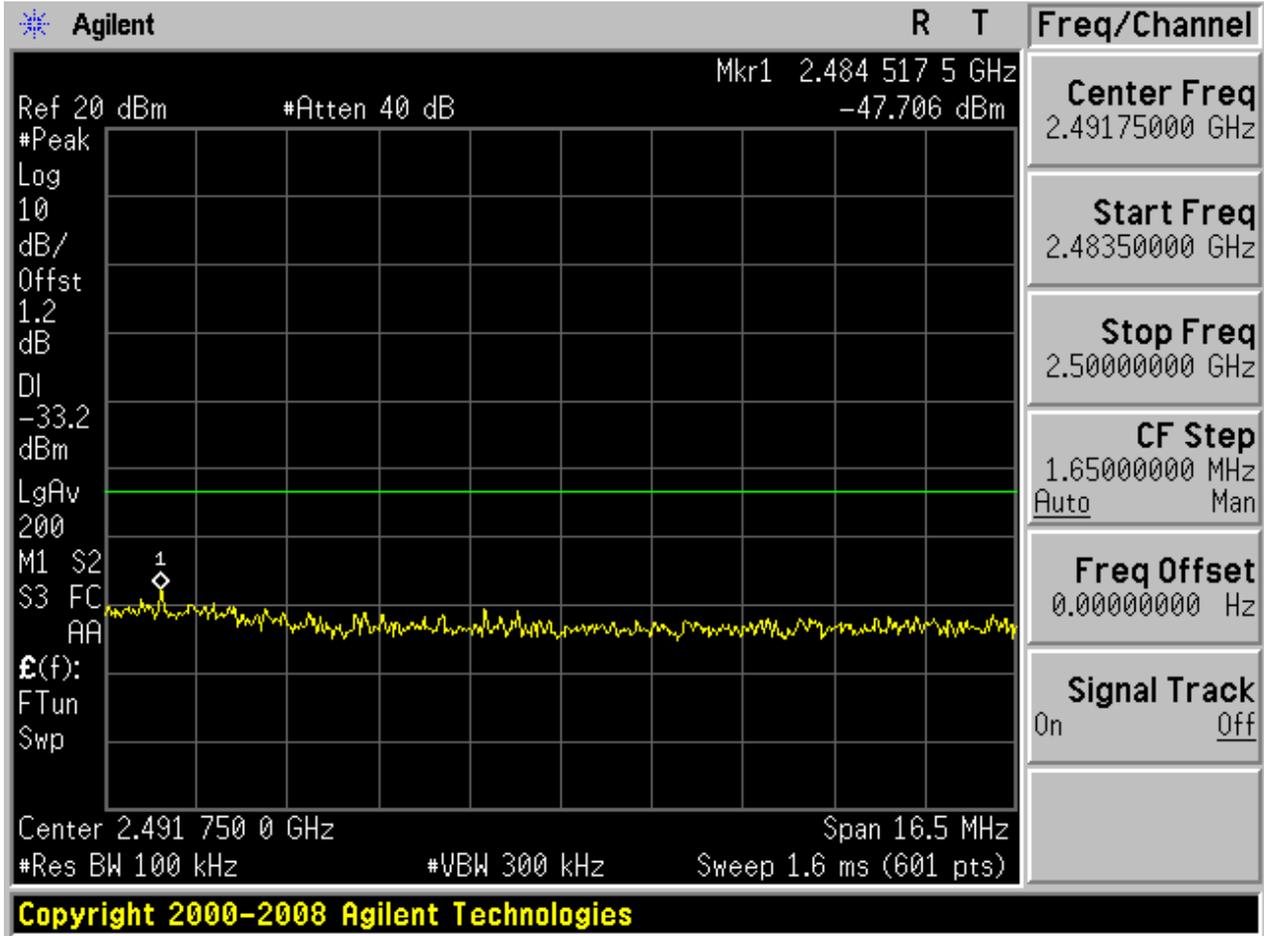
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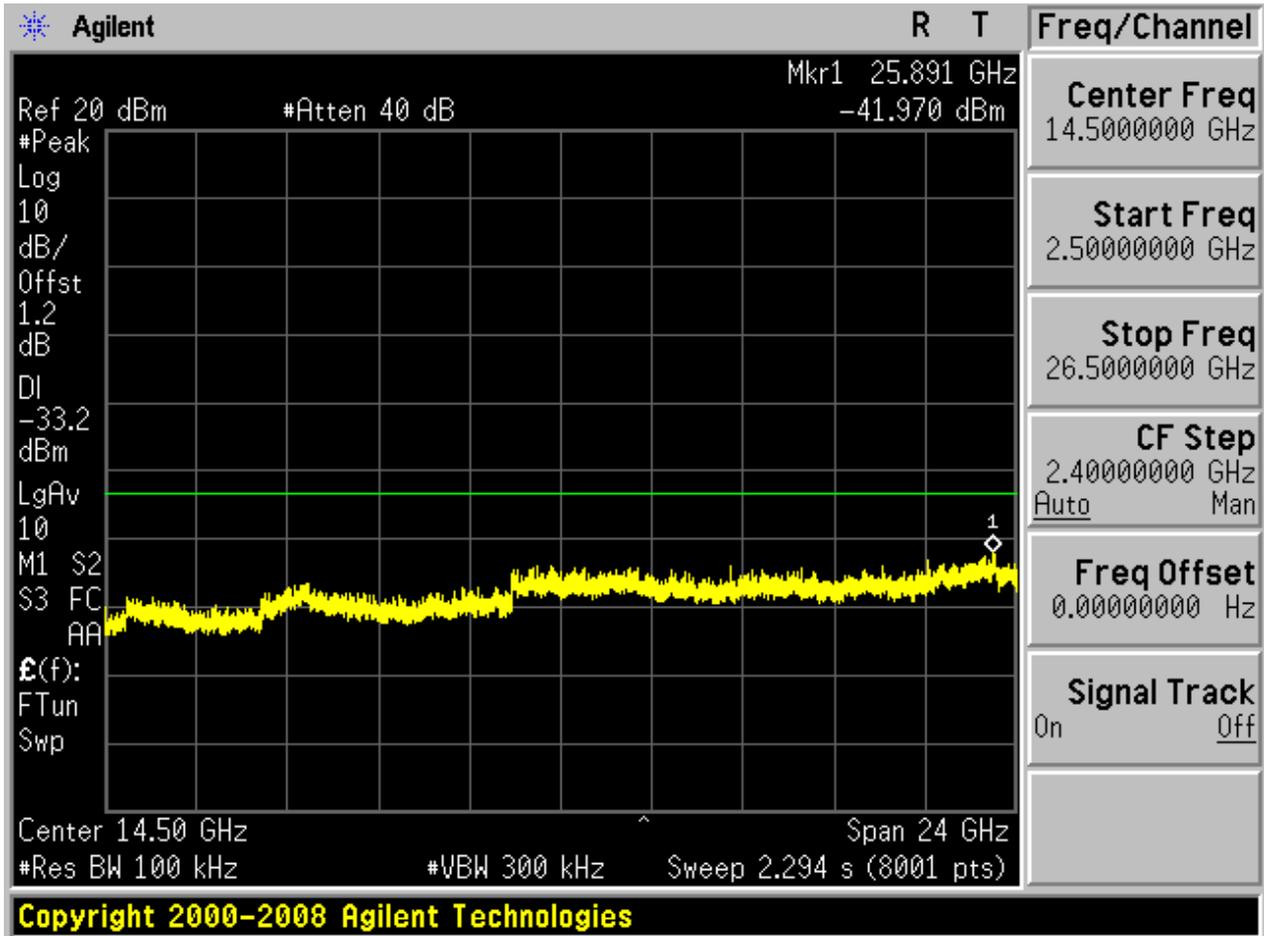














Appendix H: Radiated Spurious Emission & Spurious in Restricted Band

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

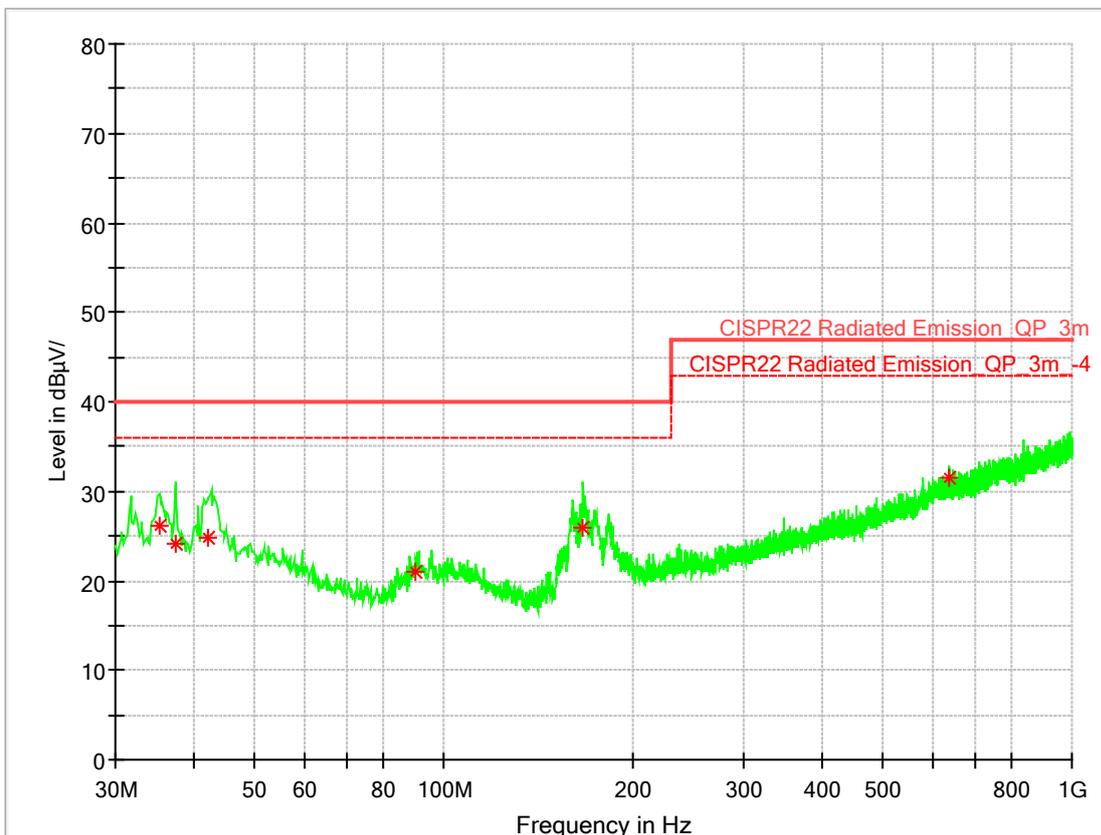
7.1Part 1: Testing Range of “9 kHz to 30MHz”

NOTE1: No peak found in the Test Range of “9 kHz to 30MHz”

7.2Part 2: 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).





Critical_Freqs

Frequency	MaxPeak	Average	Limit	Margin	Height	Pol	Azimuth	Corr.
35.351200	29.50	---	40.00	10.50	117.0	V	291.0	15.1
37.529680	30.96	---	40.00	9.04	100.0	H	190.0	15.2
42.265120	30.24	---	40.00	9.76	100.0	V	0.0	15.2
90.199760	23.17	---	40.00	16.83	106.0	V	10.0	12.3
166.707600	31.00	---	40.00	9.00	100.0	V	292.0	10.8
637.891520	32.78	---	47.00	14.22	100.0	V	29.0	22.3

Final_Result

Frequency	QuasiPeak	Limit	Margin	Height	Pol	Azimuth	Corr.
35.351200	26.16	40.00	13.84	117.0	V	291.0	15.1
37.529680	24.16	40.00	15.84	100.0	H	190.0	15.2
42.265120	24.88	40.00	15.12	100.0	V	0.0	15.2
90.199760	20.90	40.00	19.10	106.0	V	10.0	12.2
166.707600	25.99	40.00	14.01	100.0	V	292.0	10.8
637.891520	31.41	47.00	15.59	100.0	V	29.0	22.3



7.3Part 3: Testing Range of “18 GHz to 26.5 GHz”

NOTE: No peak found in the Test Range of “18 GHz to 26.5GHz”

7.4Part 4: 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.

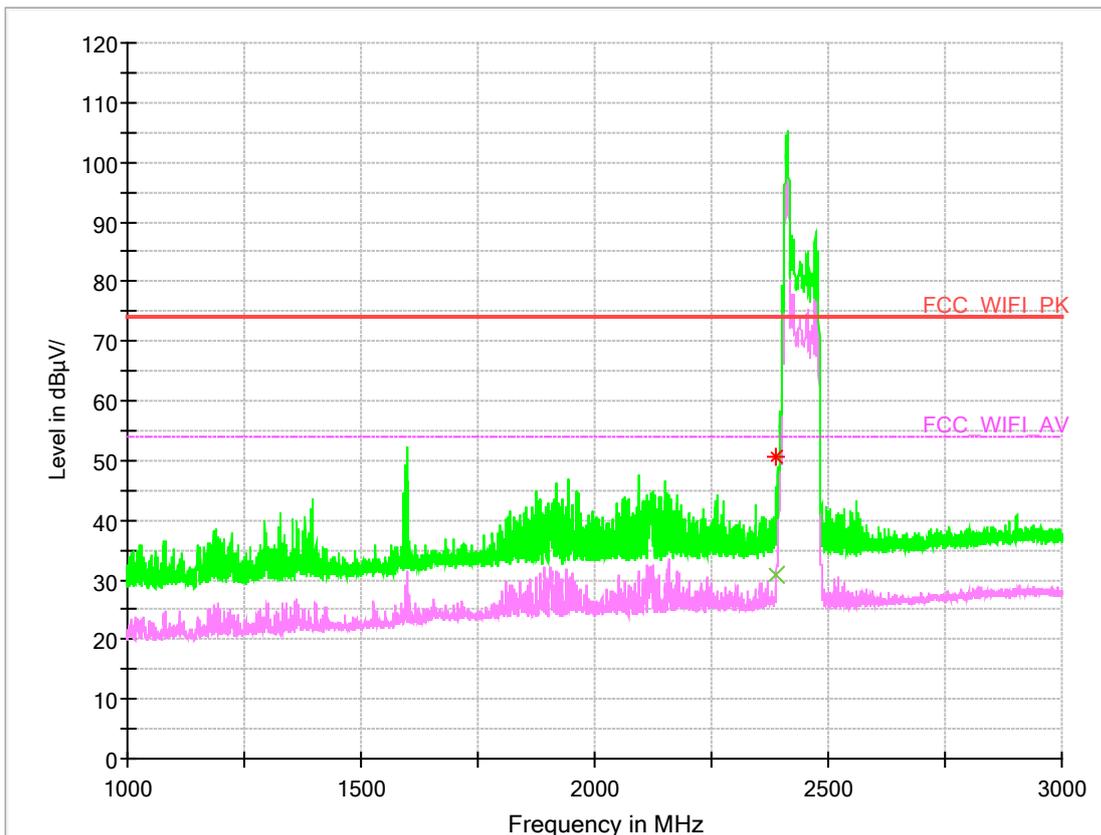
Note 2: Two limits are required in the testing range above 1 GHz, that is Peak limit (74 dB μ V/m) and Average Limit (54 dB μ V/m).

Note 3: The peak spike exceeds the limit line is EUT’s operating frequency.

Test Mode:

7.4.1Test Mode: 11B

7.4.1.1Channel 1





Critical_Freqs

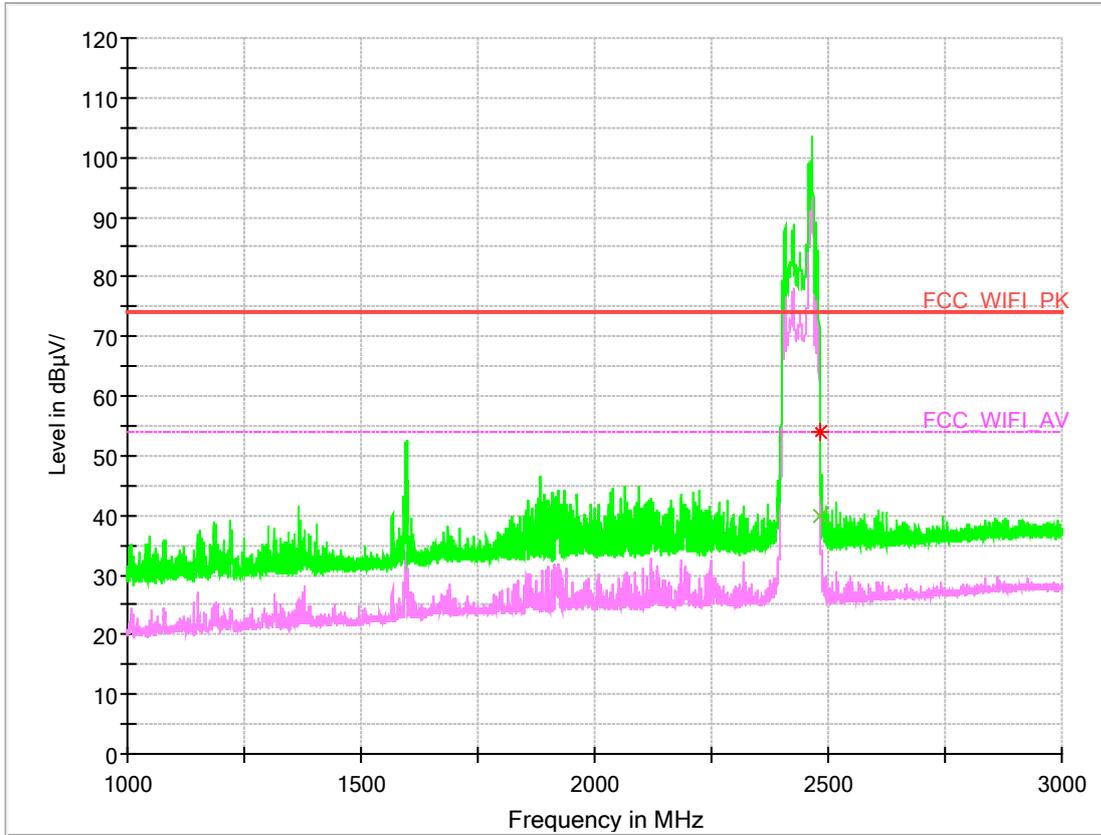
Frequency	MaxPeak	Average	Limit	Margin	Height	Pol	Azimuth	Corr.
2389.894167	38.70	---	74.00	35.30	200.0	V	314.0	-7.9
2389.957833	---	30.43	54.00	23.57	100.0	H	334.0	-7.9

Final_Result

Frequency	MaxPeak	Average	Limit	Margin	Height	Pol	Azimuth	Corr.
2389.894167	50.62	---	74.00	23.38	200.0	V	314.0	-7.8
2389.957833	---	30.69	54.00	23.31	100.0	H	334.0	-7.8

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

7.4.1.2 Channel 11



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

Critical_Freqs

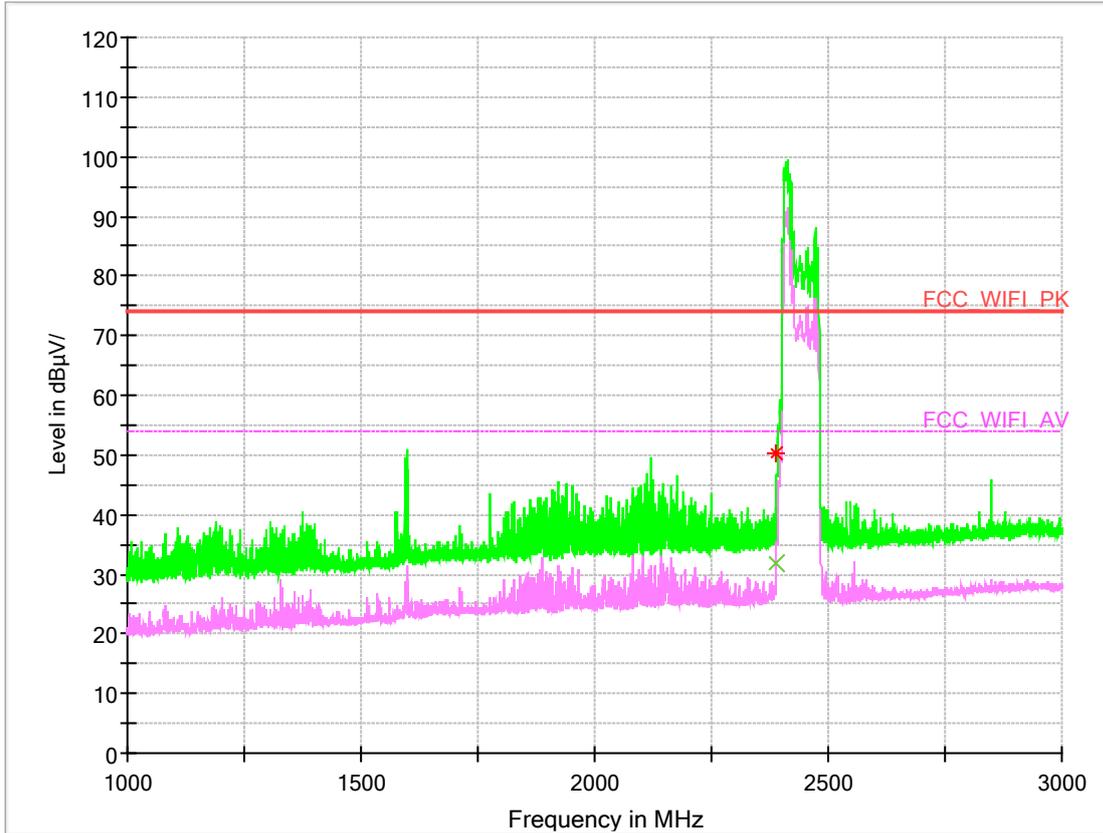
Frequency	MaxPeak	Average	Limit	Margin	Height	Pol	Azimuth	Corr.
2482.508667	45.15	---	74.00	28.85	184.0	H	140.0	1.2
2482.545667	---	36.57	54.00	17.43	113.0	H	176.0	1.2

Final_Result

Frequency	MaxPeak	Average	Limit	Margin	Height	Pol	Azimuth	Corr.
2482.508667	53.83	---	74.00	20.17	184.0	H	140.0	7.3
2482.545667	---	39.98	54.00	14.02	113.0	H	176.0	7.1

7.4.1 Test Mode: 11G

7.4.1.1 Channel 1



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

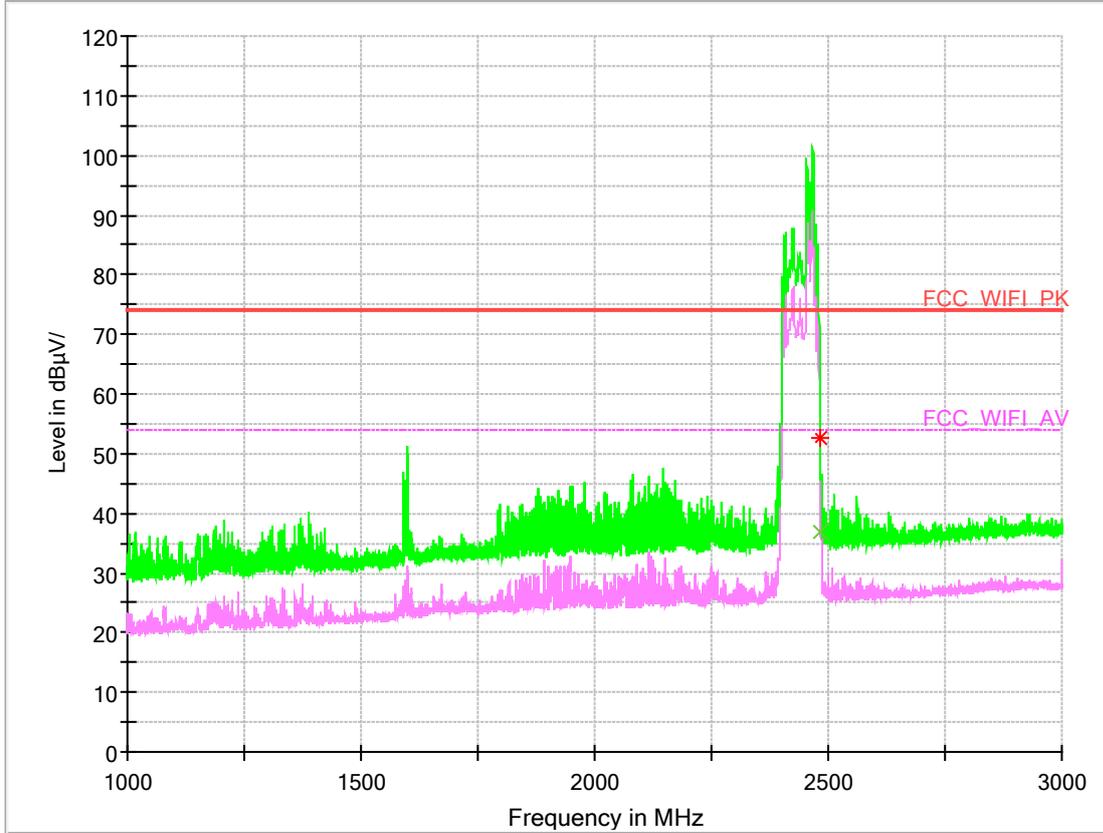
Critical_Freqs

Frequency	MaxPeak	Average	Limit	Margin	Height	Pol	Azimuth	Corr.
2390.000000	---	31.00	54.00	23.00	100.0	H	-1.0	-7.9
2390.000000	40.51	---	74.00	33.49	100.0	H	3.0	-7.9

Final_Result

Frequency	MaxPeak	Average	Limit	Margin	Height	Pol	Azimuth	Corr.
2390.000000	---	31.83	54.00	22.17	100.0	H	-1.0	-7.8
2390.000000	50.29	---	74.00	23.71	100.0	H	3.0	-7.8

7.4.1.2 Channel 11



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

Critical_Freqs

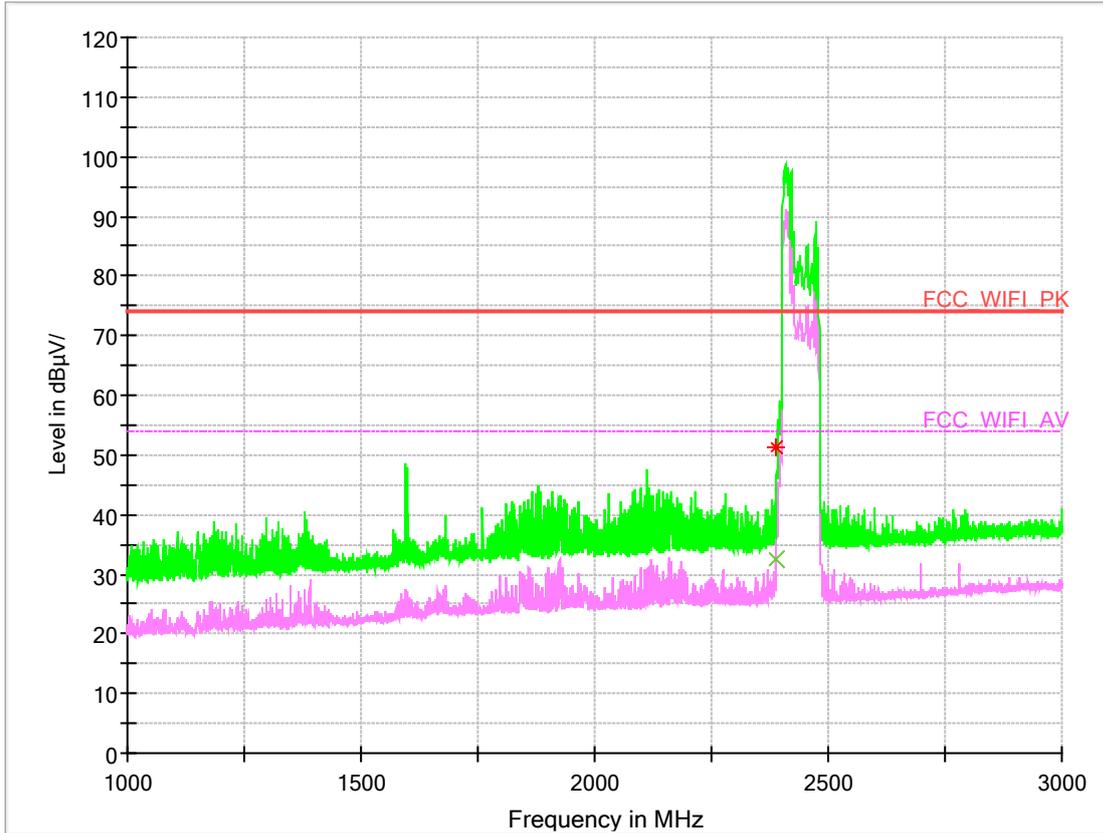
Frequency	MaxPeak	Average	Limit	Margin	Height	Pol	Azimuth	Corr.
2483.500000	---	36.22	54.00	17.78	100.0	H	326.0	-2.9
2483.500000	45.48	---	74.00	28.52	100.0	H	328.0	-2.9

Final_Result

Frequency	MaxPeak	Average	Limit	Margin	Height	Pol	Azimuth	Corr.
2483.500000	---	36.85	54.00	17.15	100.0	H	326.0	0.9
2483.500000	52.68	---	74.00	21.32	100.0	H	328.0	0.6

7.4.1 Test Mode: 11N20

7.4.1.1 Channel 1



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

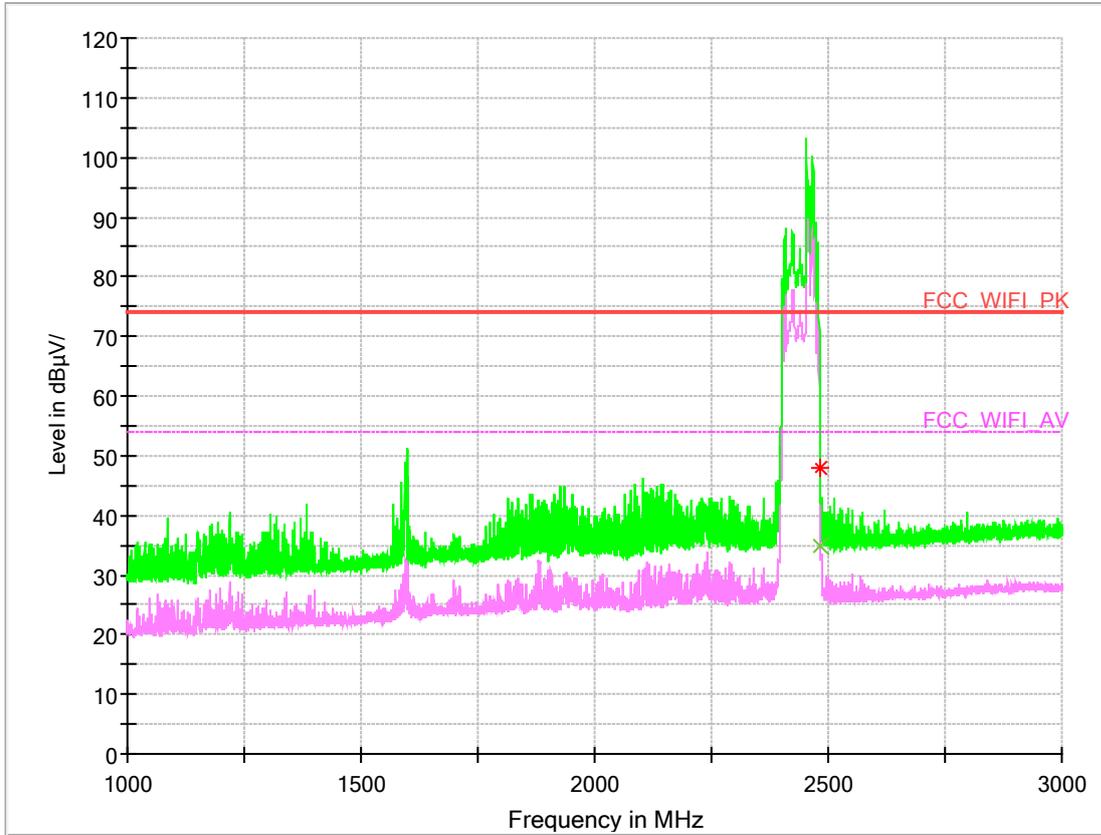
Critical_Freqs

Frequency	MaxPeak	Average	Limit	Margin	Height	Pol	Azimuth	Corr.
2390.000000	---	32.66	54.00	21.34	100.0	H	326.0	-7.9
2390.000000	42.09	---	74.00	31.91	100.0	H	322.0	-7.9

Final_Result

Frequency	MaxPeak	Average	Limit	Margin	Height	Pol	Azimuth	Corr.
2390.000000	---	32.46	54.00	21.54	100.0	H	326.0	-7.8
2390.0000007	51.15	---	74.00	22.85	100.0	H	322.0	-7.8

7.4.1.2 Channel 11



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

Critical_Freqs

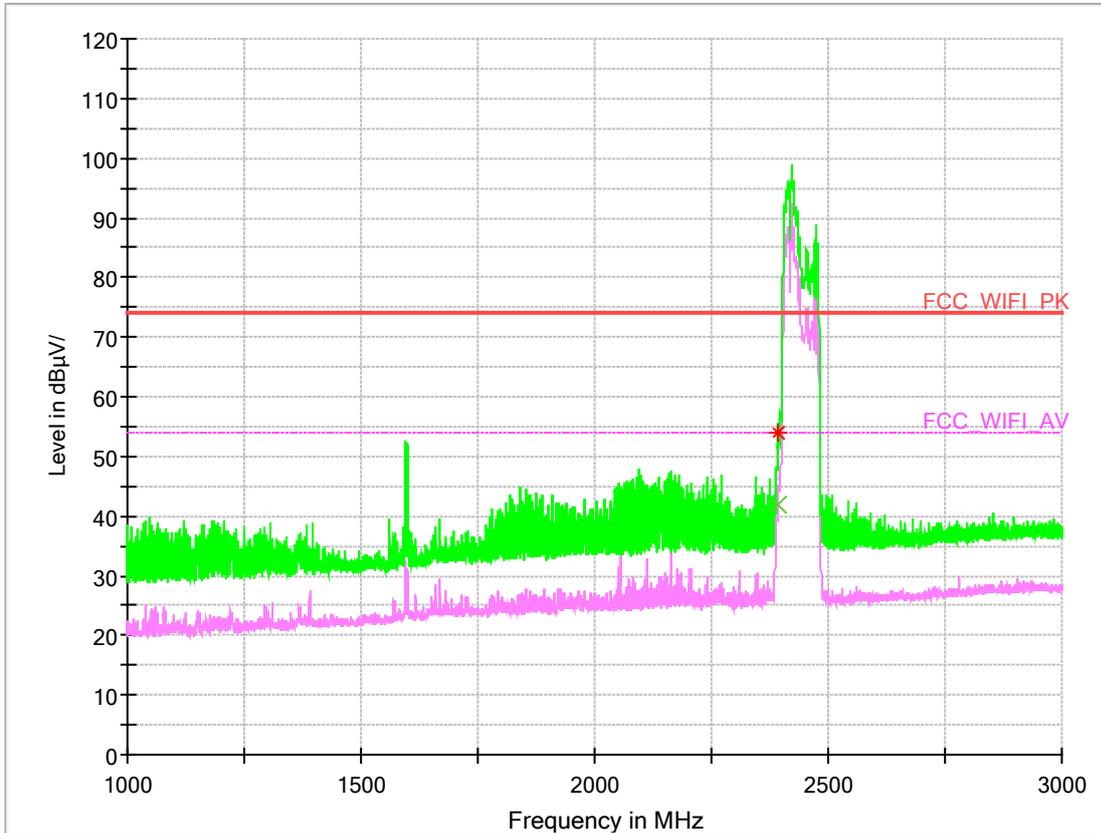
Frequency	MaxPeak	Average	Limit	Margin	Height	Pol	Azimuth	Corr.
2483.500000	42.74	---	74.00	31.26	142.0	H	70.0	-2.9
2483.500000	---	34.60	54.00	19.40	100.0	H	-10.0	-2.9

Final_Result

Frequency	MaxPeak	Average	Limit	Margin	Height	Pol	Azimuth	Corr.
2483.500000	48.08	---	74.00	25.92	142.0	H	70.0	1.1
2483.500000	---	34.79	54.00	19.21	100.0	H	-10.0	0.8

7.4.1 Test Mode: 11N40

7.4.1.1 Channel 1



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

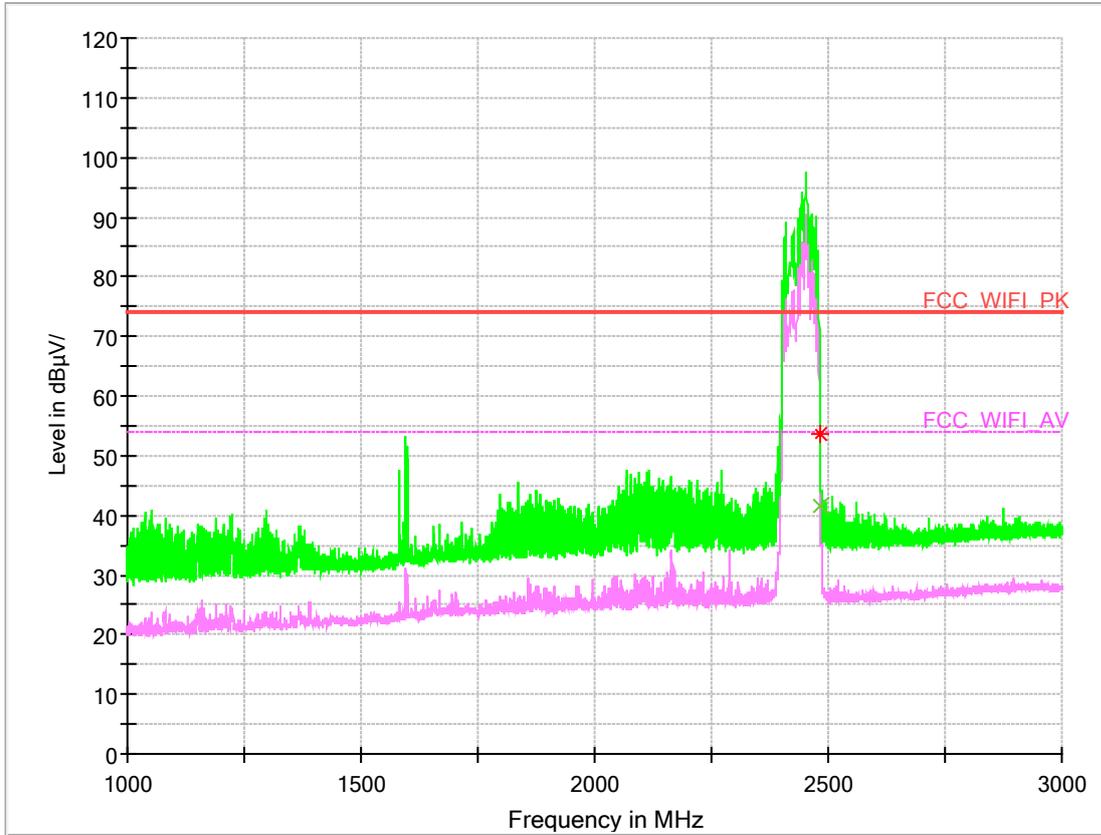
Critical_Freqs

Frequency	MaxPeak	Average	Limit	Margin	Height	Pol	Azimuth	Corr.
2390.000000	47.63	---	74.00	26.37	100.0	H	82.0	-7.8
2390.000000	---	39.64	54.00	14.36	117.0	H	107.0	-7.8

Final_Result

Frequency	MaxPeak	Average	Limit	Margin	Height	Pol	Azimuth	Corr.
2390.000000	54.03	---	74.00	19.97	100.0	H	82.0	-7.4
2390.000000	---	41.79	54.00	12.21	117.0	H	107.0	-7.4

7.4.1.2 Channel 11



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

Critical_Freqs

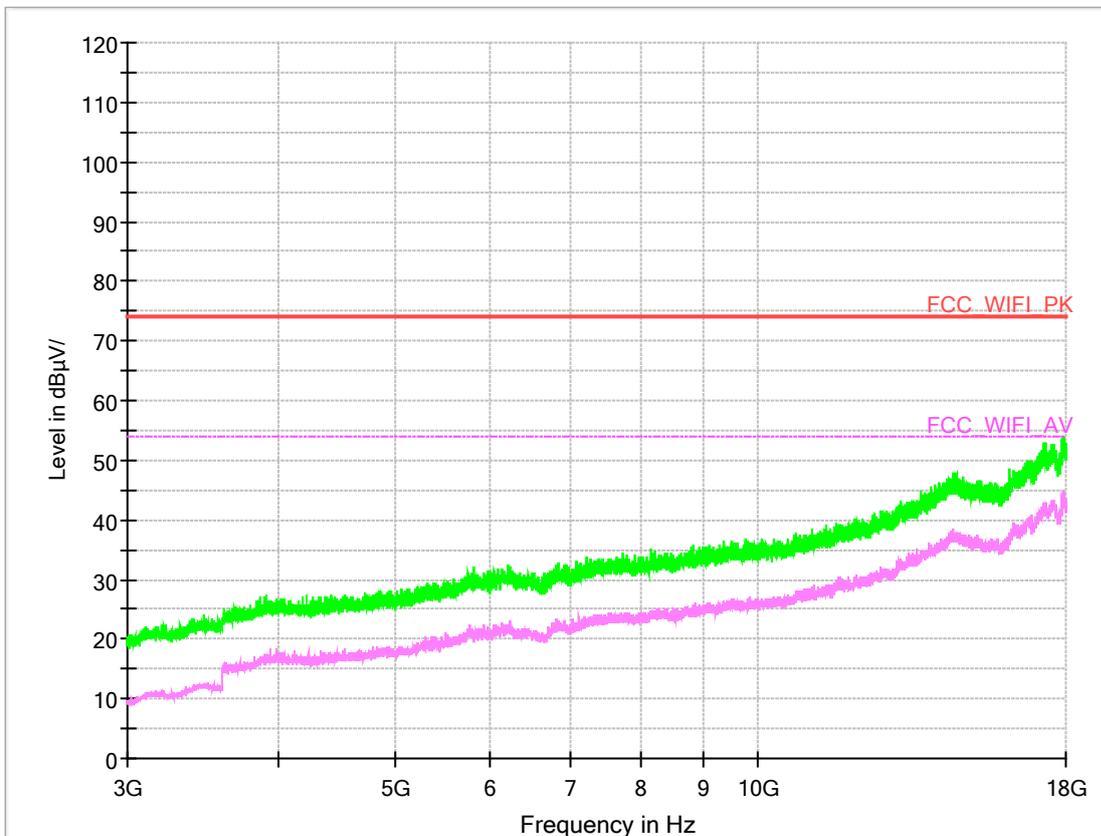
Frequency	MaxPeak	Average	Limit	Margin	Height	Pol	Azimuth	Corr.
2483.500000	---	37.73	54.00	16.27	100.0	V	135.0	1.2
2483.500000	47.35	---	74.00	26.65	118.0	V	174.0	1.2

Final_Result

Frequency	MaxPeak	Average	Limit	Margin	Height	Pol	Azimuth	Corr.
2483.500000	---	41.48	54.00	12.52	100.0	V	135.0	7.3
2483.500000	53.73	---	74.00	20.27	118.0	V	175.0	6.5

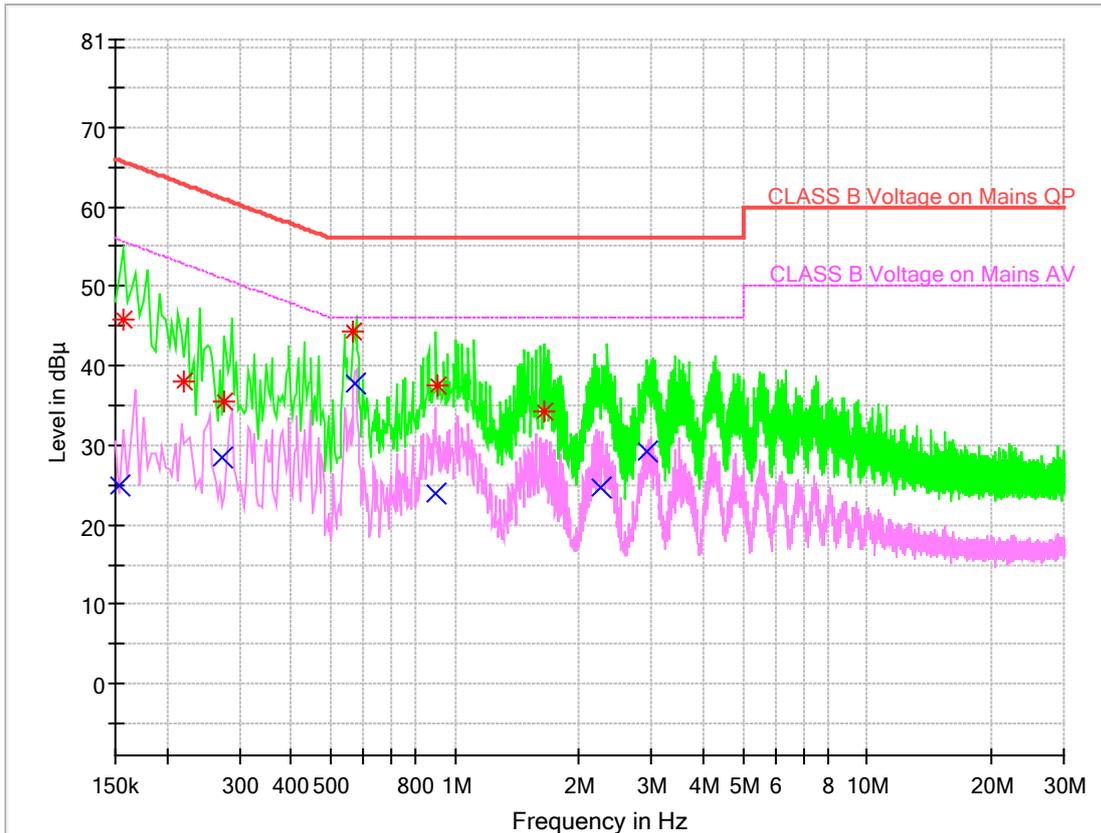
7.5Part 5: Testing Range of “1 GHz to 18 GHz”

- 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 μ V/m) and Average Limit (54 dB μ V/m).



Appendix I: Conducted Emission at Power Port

Note: RBW =9 kHz, VBW = 30 kHz



Final_Result

Frequency	QuasiPeak	Average	Limit (dBμV)	Margin	Meas. Time	Bandwidth	Line	Filter
0.152637	---	24.87	55.86	30.99	15000.0	9.000	L1	ON
0.156780	45.81	---	65.63	19.82	15000.0	9.000	L1	ON
0.220387	37.97	---	62.80	24.83	15000.0	9.000	N	ON
0.272578	---	28.53	51.04	22.51	15000.0	9.000	N	ON
0.275514	35.41	---	60.95	25.54	15000.0	9.000	N	ON



0.567579	44.20	---	56.00	11.80	15000.0	9.000	N	ON
0.574491	---	37.73	46.00	8.27	15000.0	9.000	N	ON
0.898923	---	24.04	46.00	21.96	15000.0	9.000	L1	ON
0.912281	37.41	---	56.00	18.59	15000.0	9.000	L1	ON
1.639965	34.16	---	56.00	21.84	15000.0	9.000	N	ON
2.256265	---	24.66	46.00	21.34	15000.0	9.000	L1	ON
2.935243	---	29.19	46.00	16.81	15000.0	9.000	L1	ON

END