



Appendix for Test report



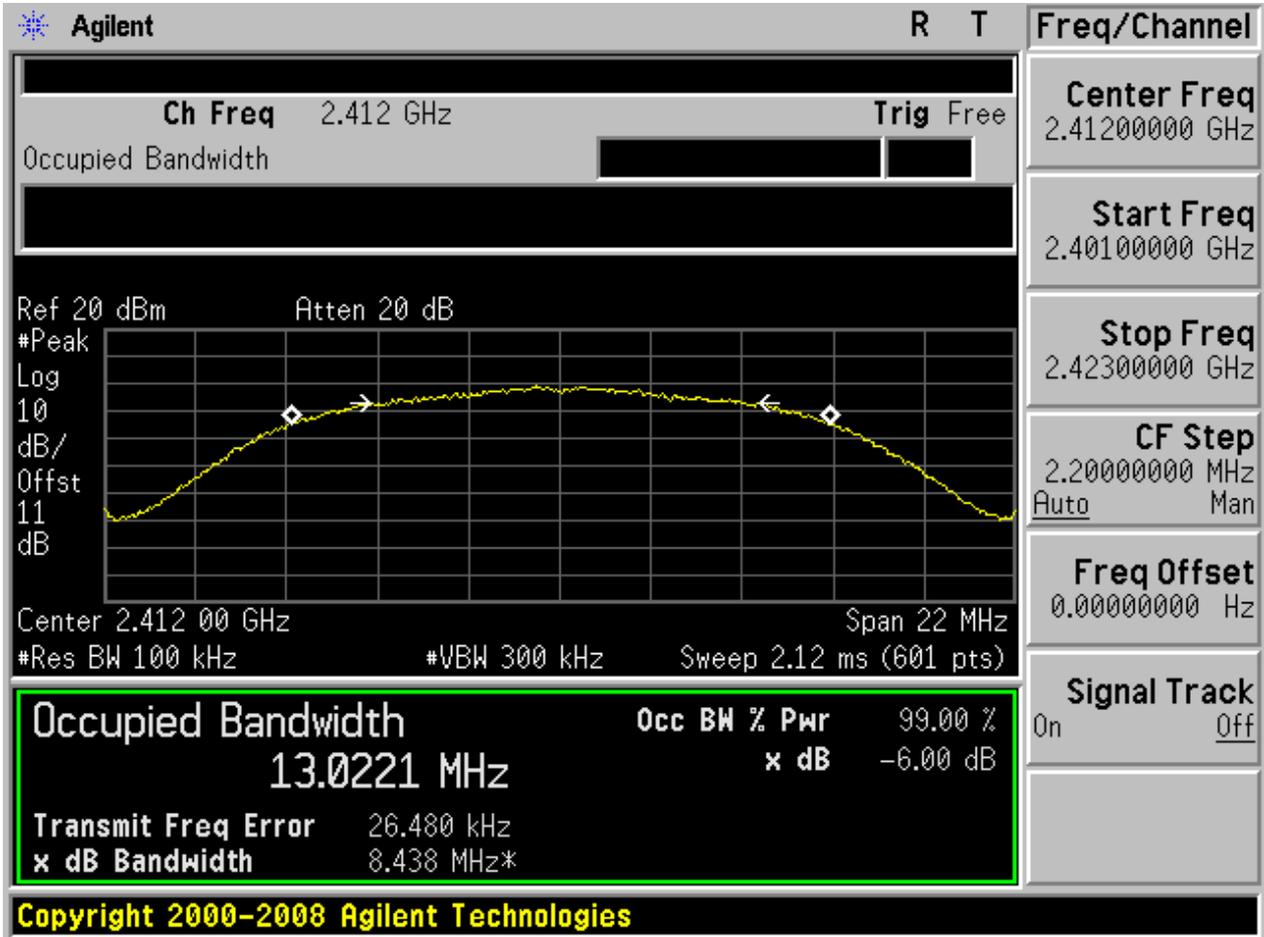
Appendix A: DTS (6 dB) Bandwidth

Part I - Test Results

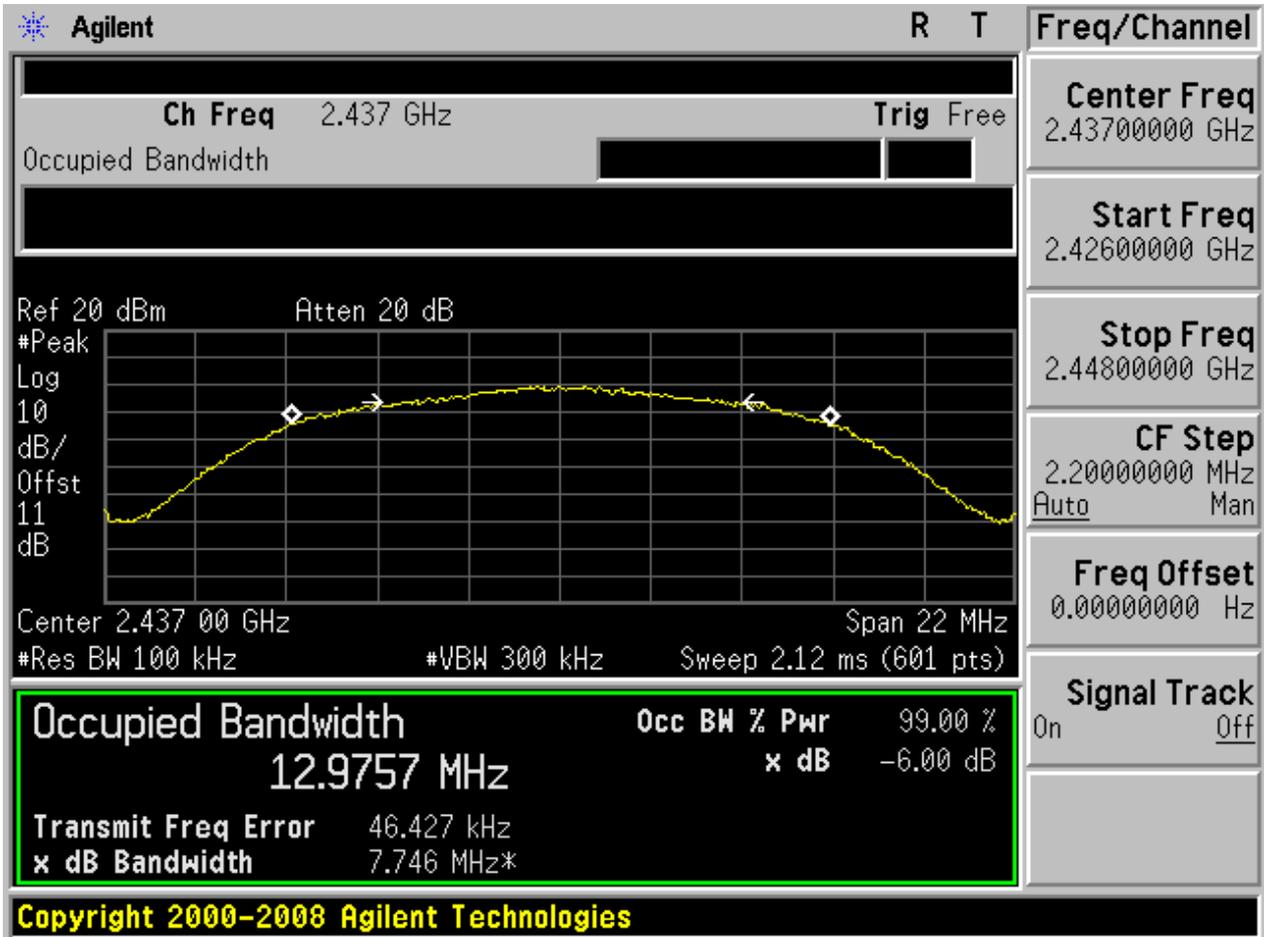
Test Mode	Test Channel	Frequency[MHz]	DTS6dBBW[MHz]	Verdict
11B	L	2412	8.44	pass
11B	M	2437	7.75	pass
11B	H	2462	8.02	pass
11G	L	2412	16.53	pass
11G	M	2437	16.53	pass
11G	H	2462	16.54	pass
11N20	L	2412	17.73	pass
11N20	M	2437	17.53	pass
11N20	H	2462	17.70	pass

Part II - Test Plots

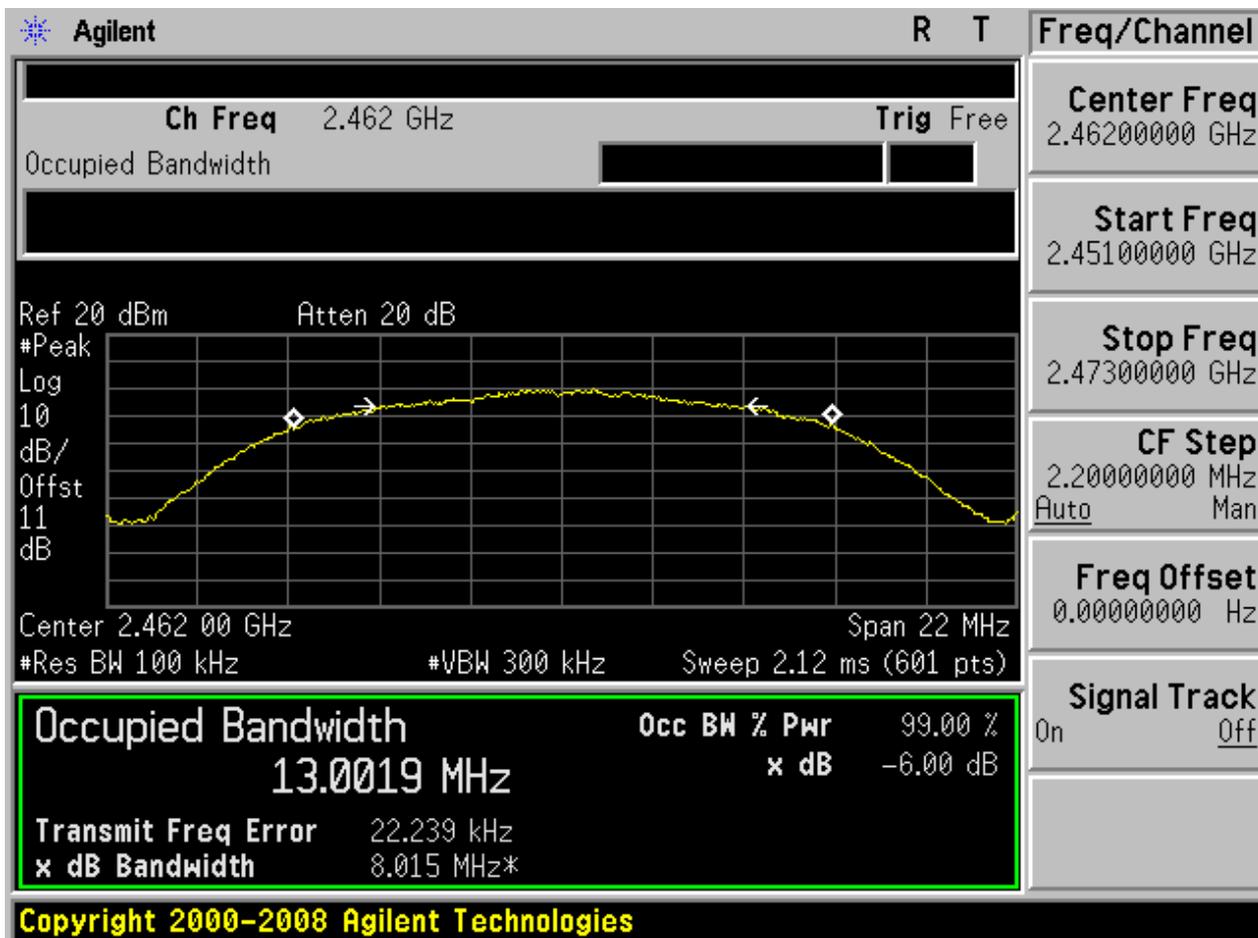
2.1 11B_L



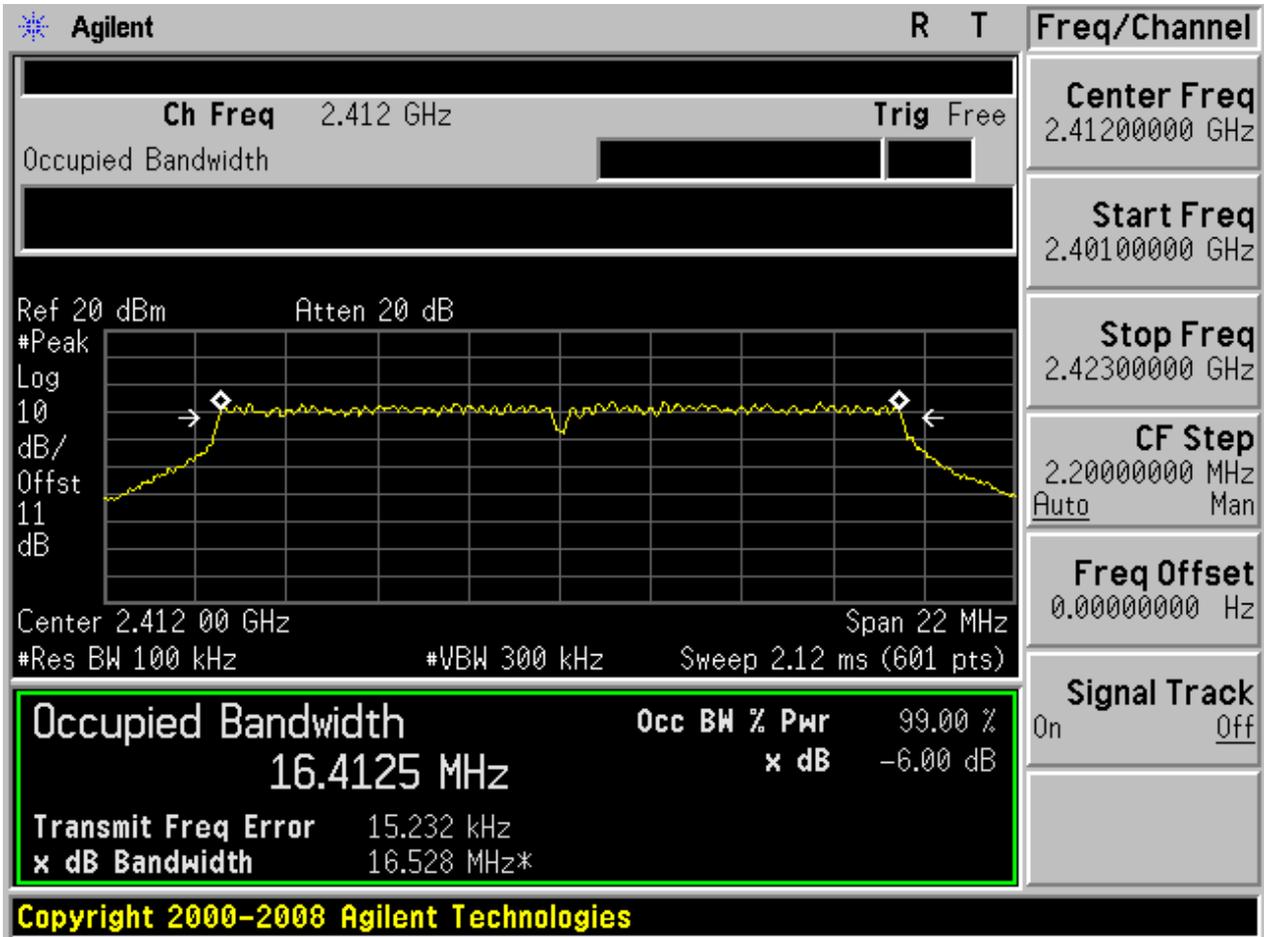
2.2 11B_M



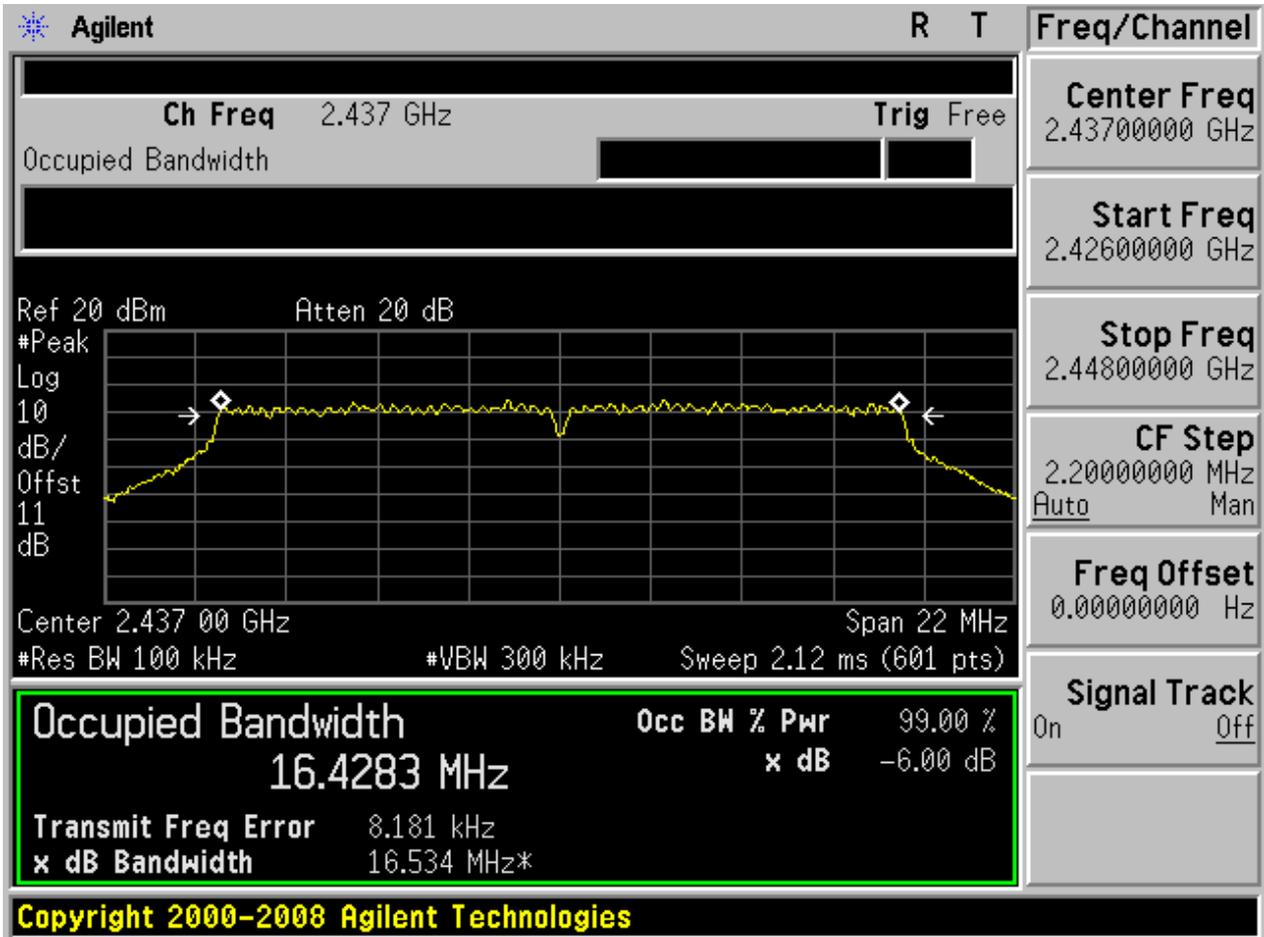
2.3 11B_H



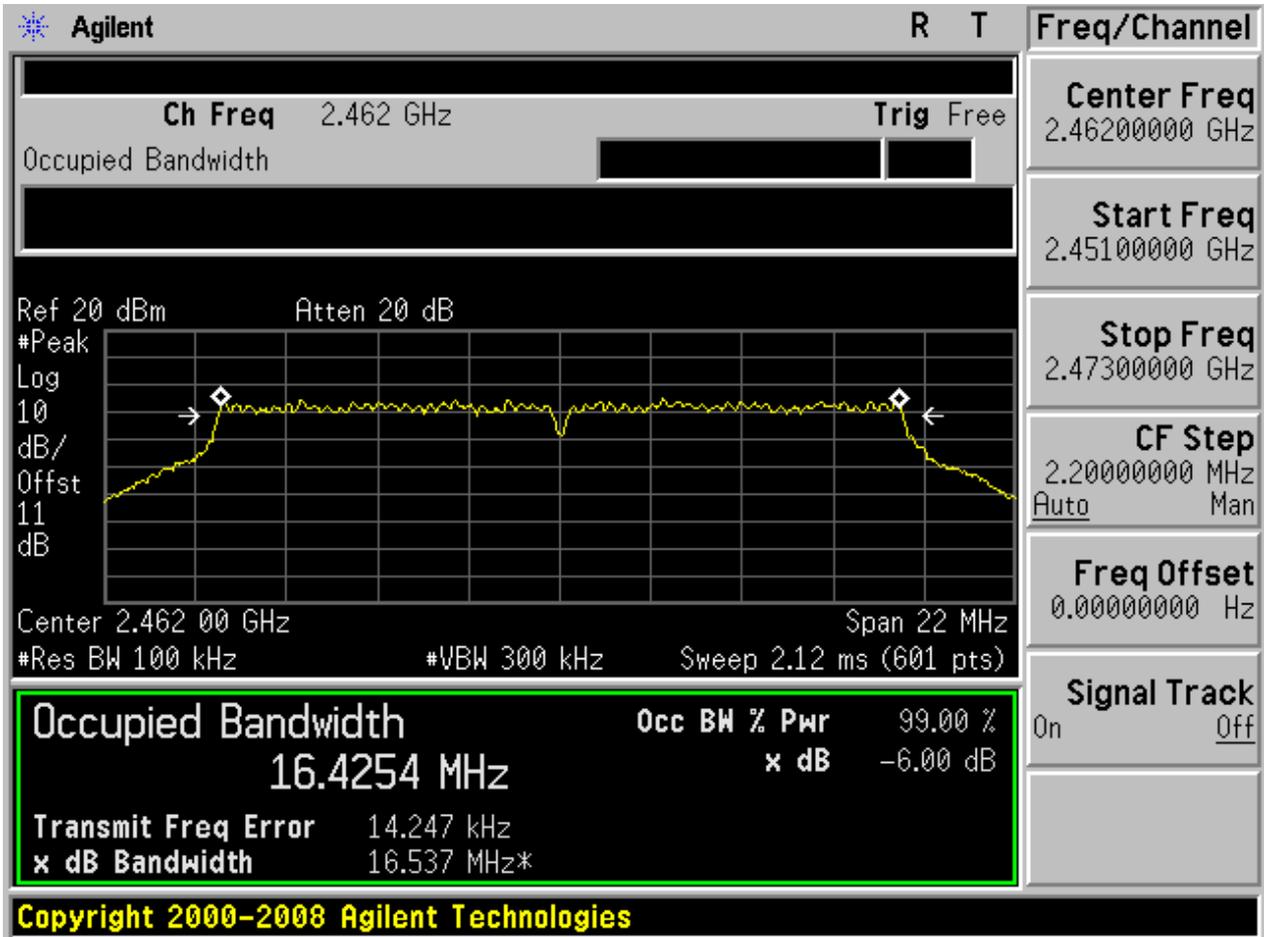
2.4 11G_L



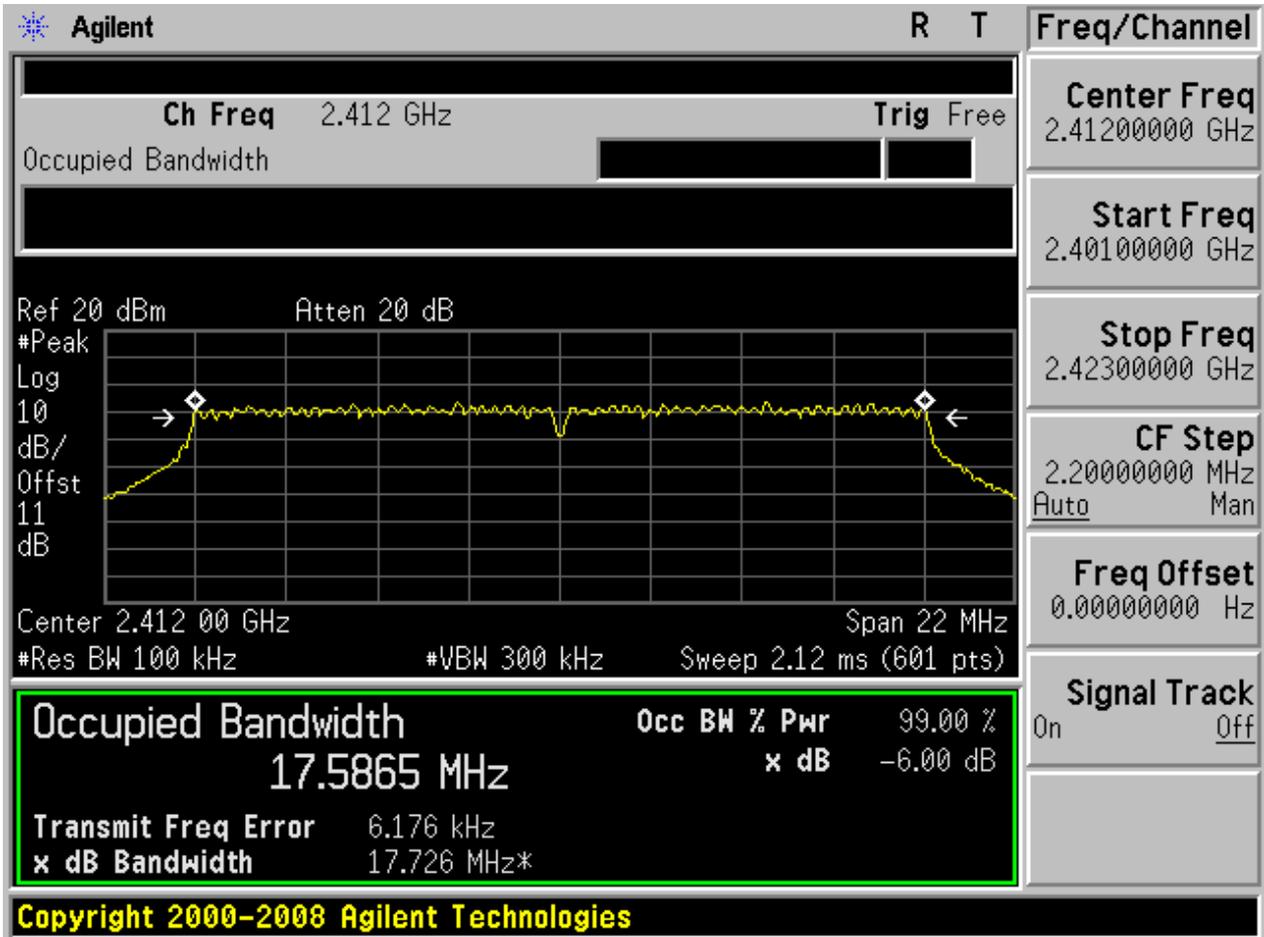
2.5 11G_M



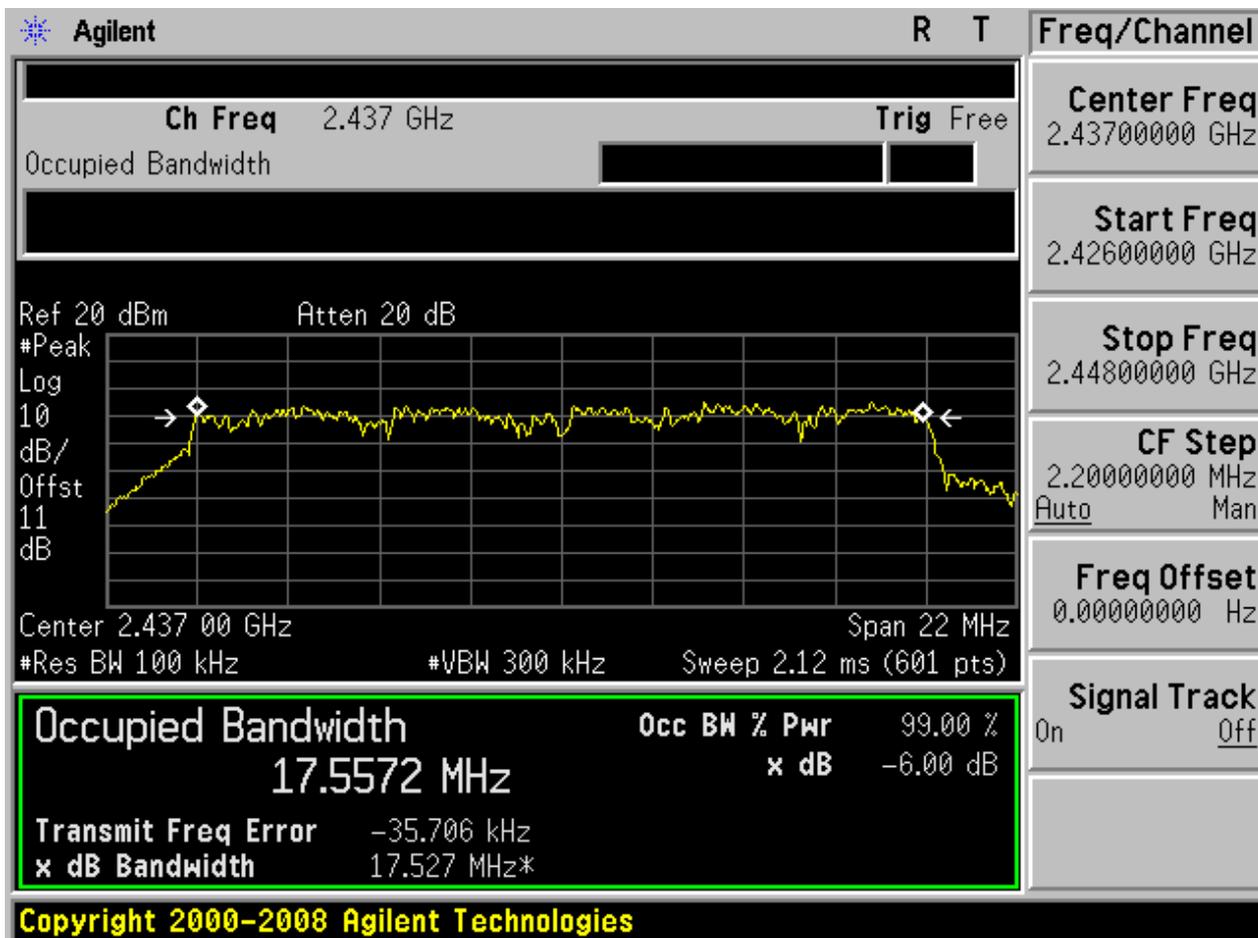
2.6 11G_H



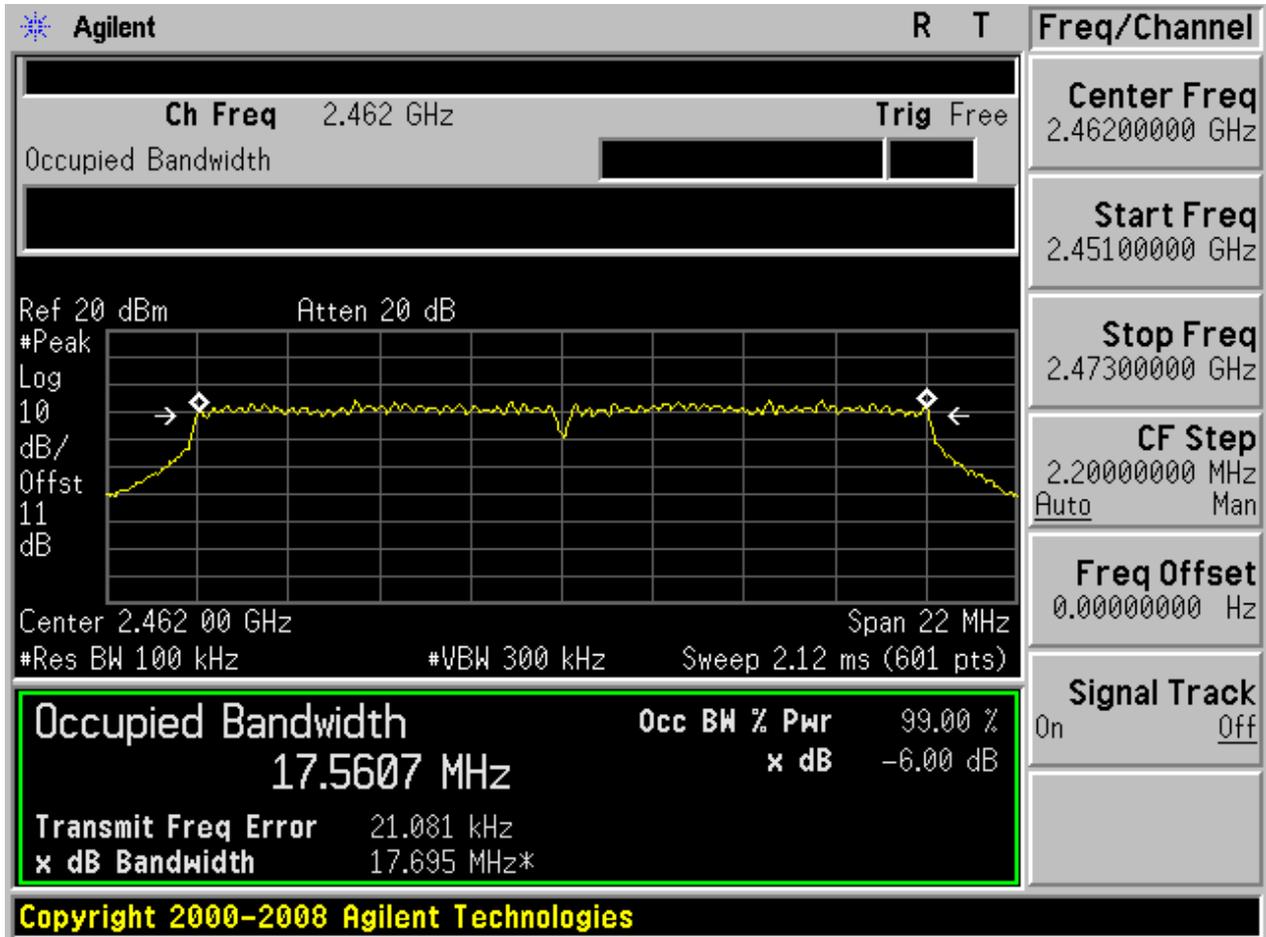
2.7 11N20_L



2.8 11N20_M



2.9 11N20_H



Appendix B: Maximum Peak Conducted Output Power

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Meas. Level (Cond.) [dBm]	Verdict
11B	L	2412	20.57	pass
11B	M	2437	21.06	pass
11B	H	2462	21.42	pass
11G	L	2412	21.91	pass
11G	M	2437	21.86	pass
11G	H	2462	22.15	pass
11N20	L	2412	21.15	pass
11N20	M	2437	21.92	pass
11N20	H	2462	22.05	pass



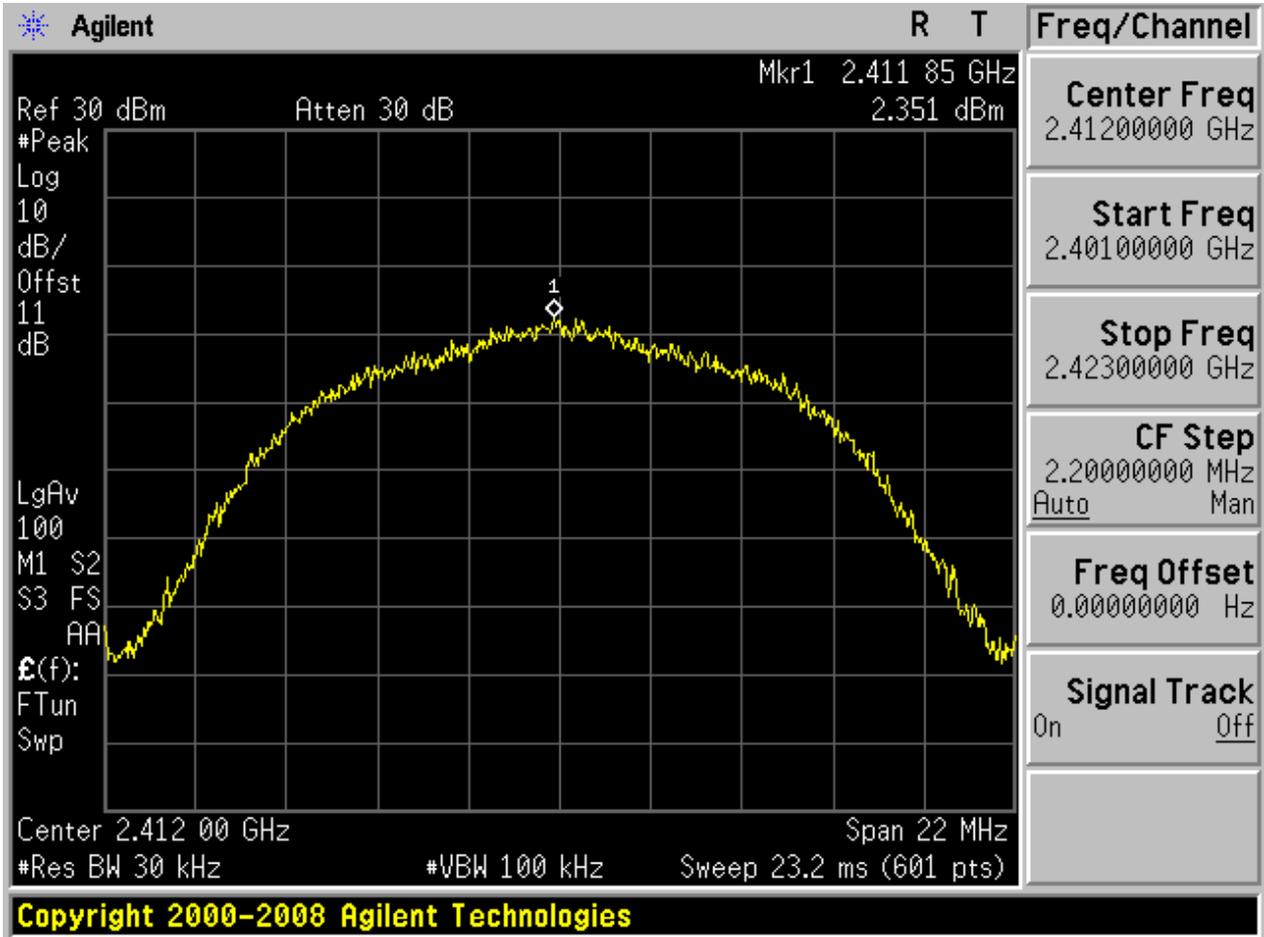
Appendix C: Maximum Power Spectral Density Level

Part I - Test Results

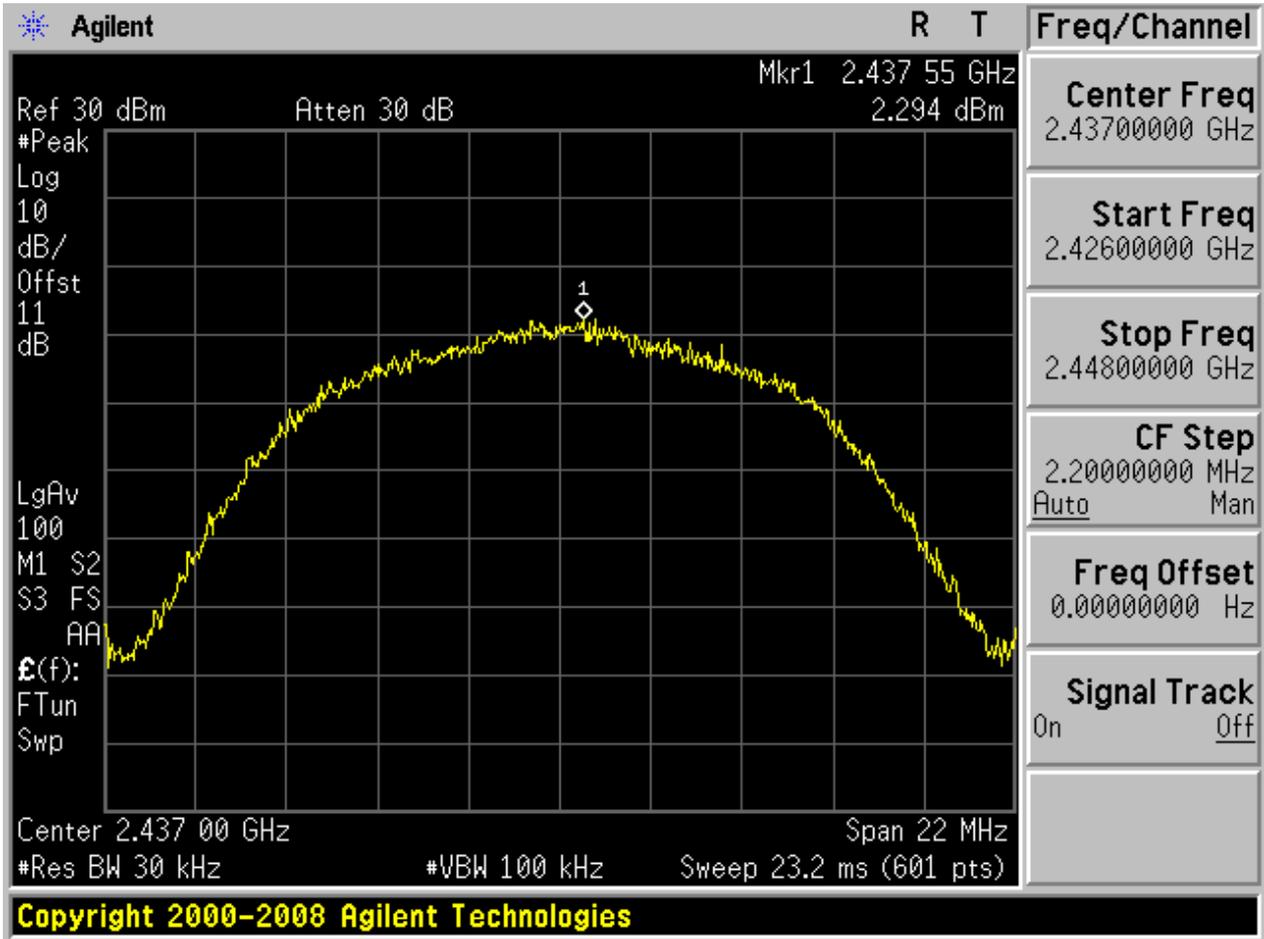
Test Mode	Test Channel	Frequency[MHz]	PD[MHz]	Verdict
11B	L	2412	2.35	pass
11B	M	2437	2.29	pass
11B	H	2462	3.58	pass
11G	L	2412	-2.63	pass
11G	M	2437	-2.53	pass
11G	H	2462	-1.92	pass
11N20	L	2412	-2.20	pass
11N20	M	2437	-1.58	pass
11N20	H	2462	-1.72	pass

Part II - Test Plots

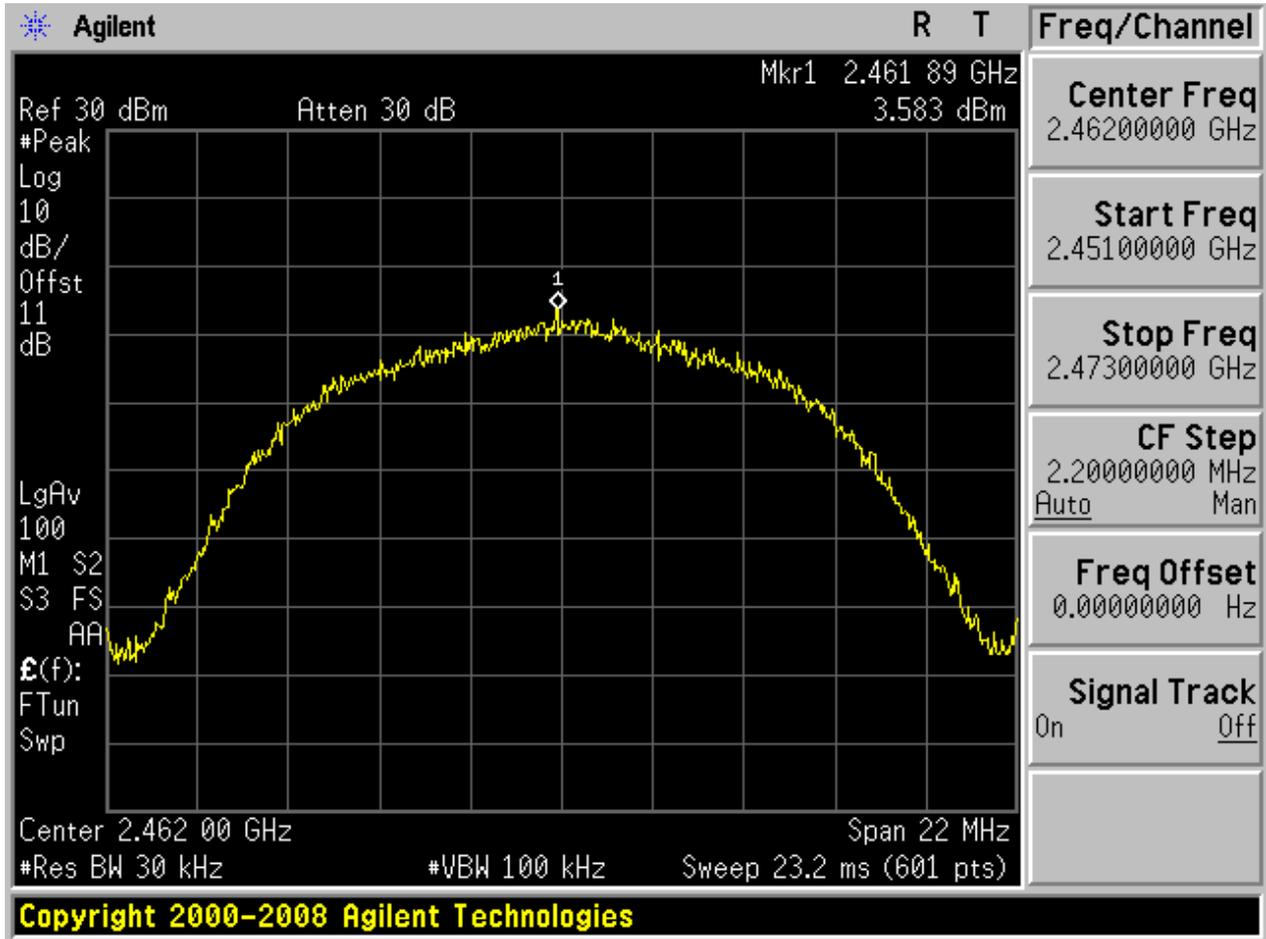
2.1 11B_L



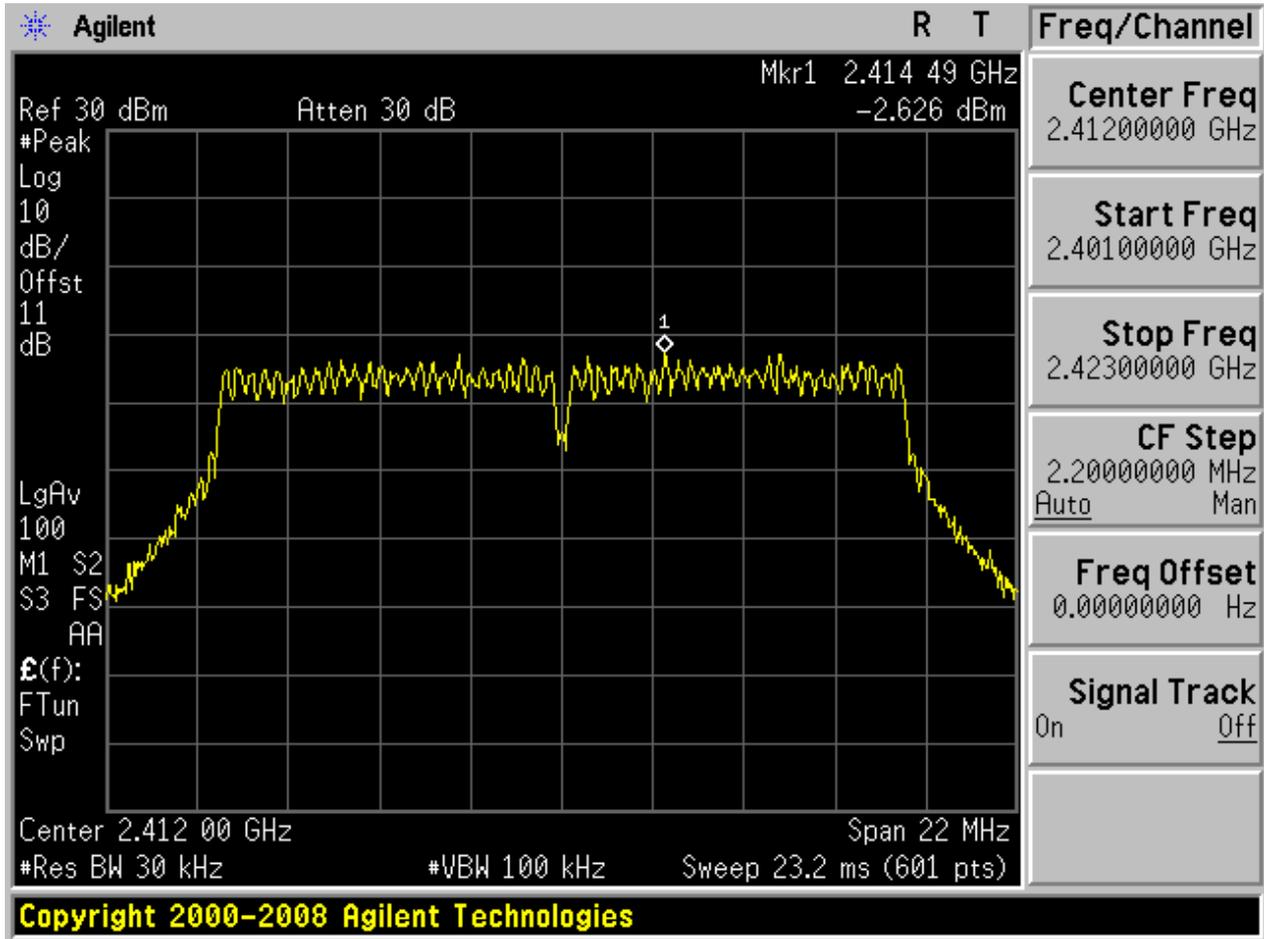
2.2 11B_M



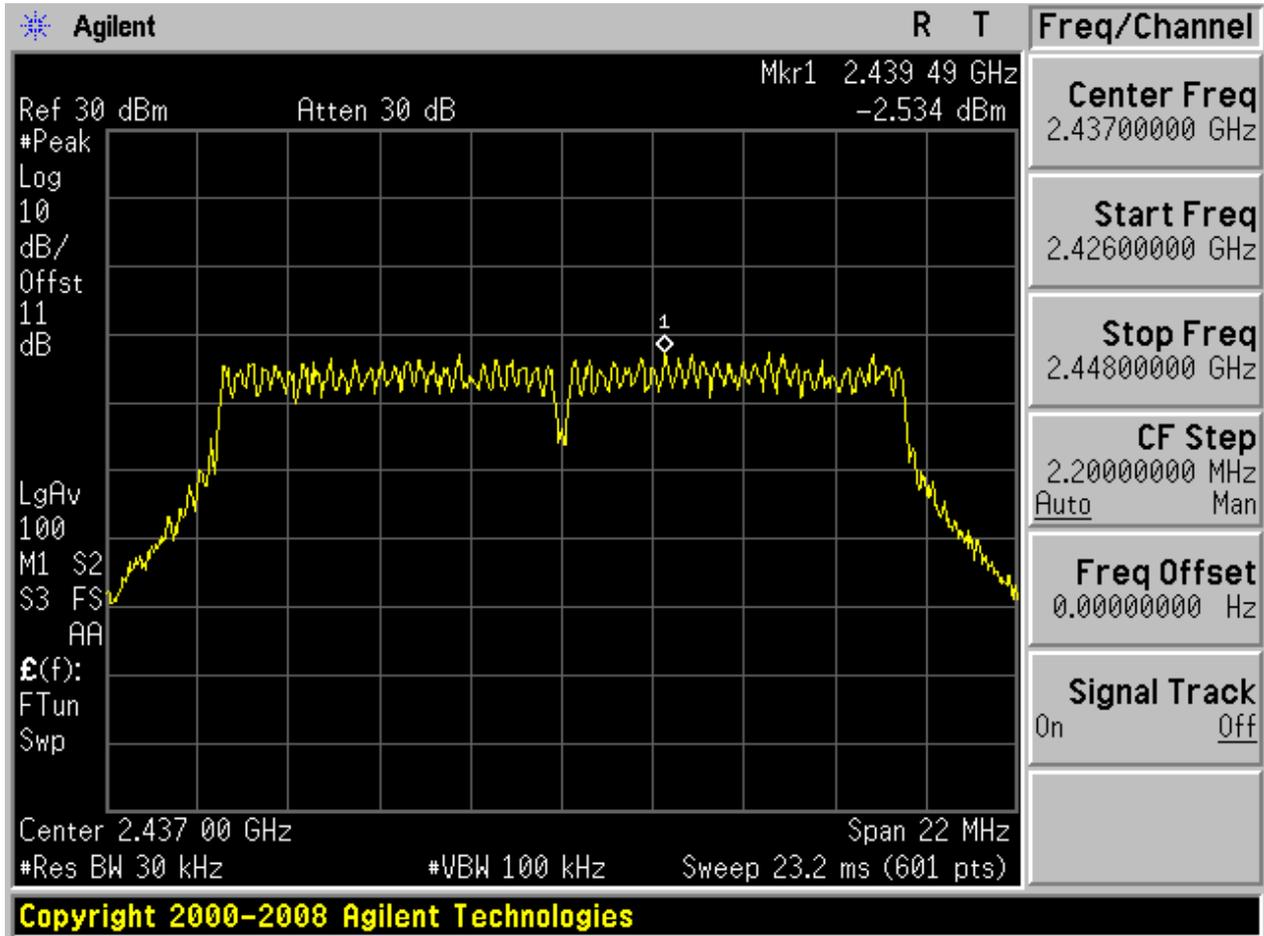
2.3 11B_H



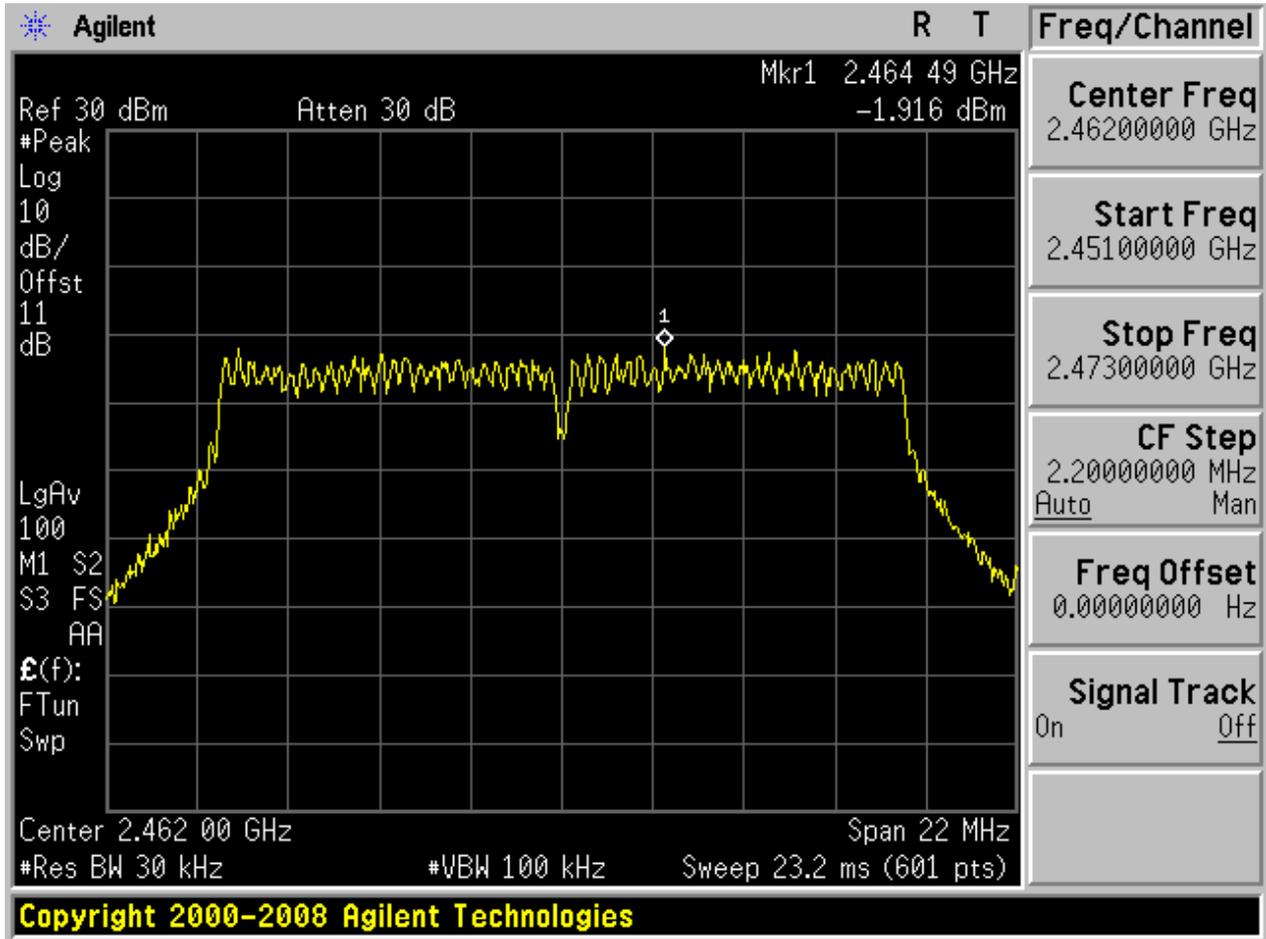
2.4 11G_L



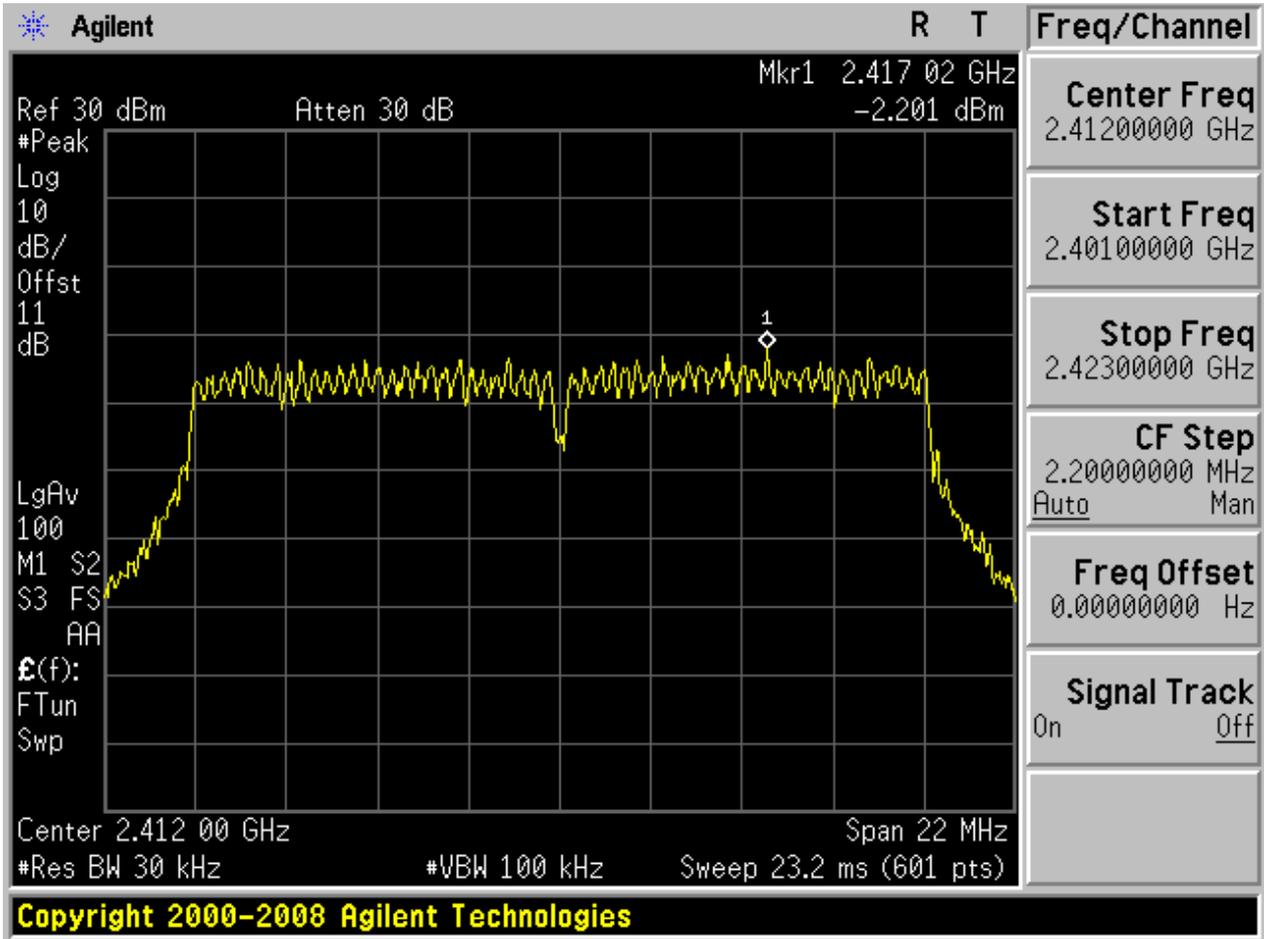
2.5 11G_M



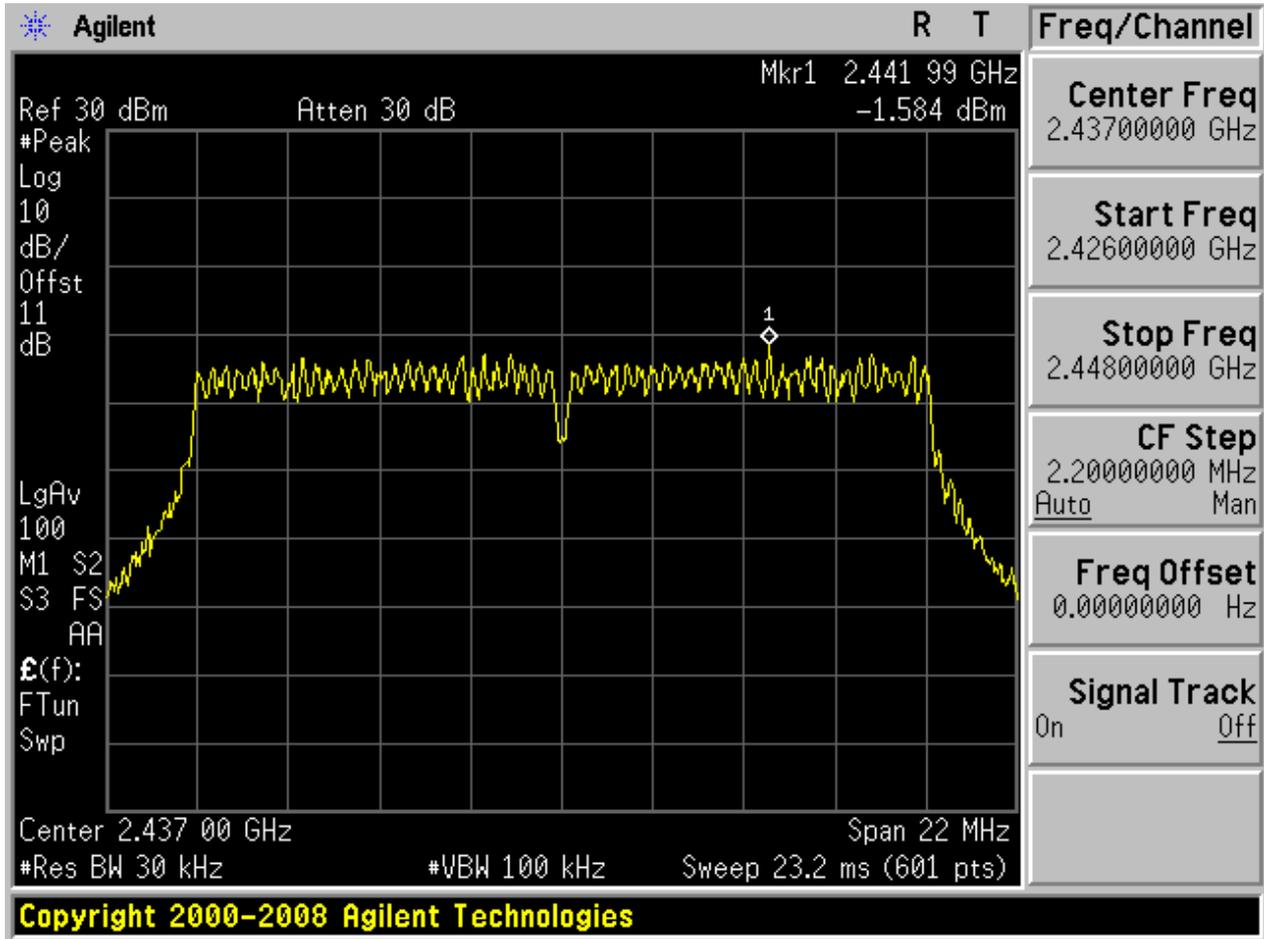
2.6 11G_H



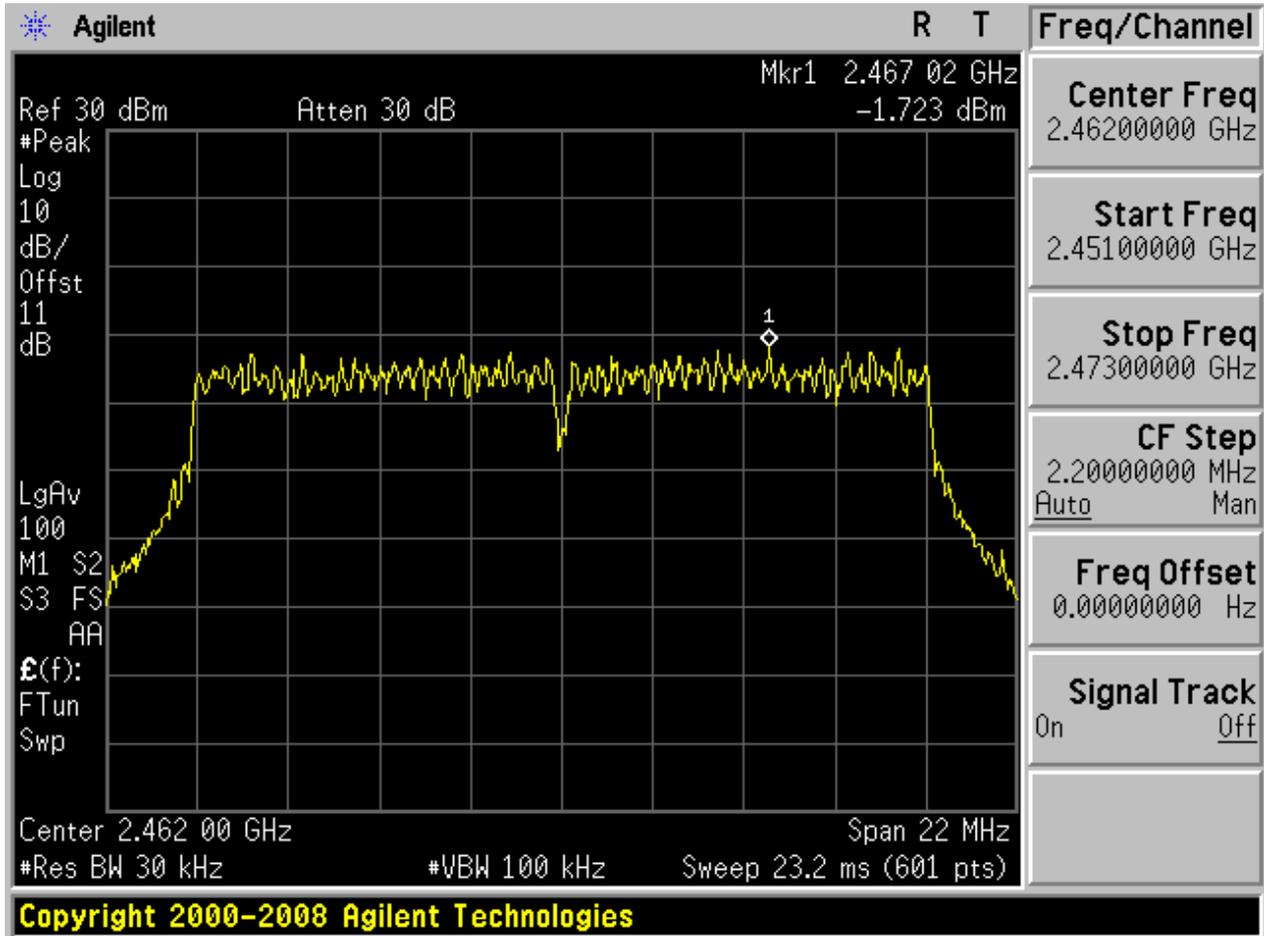
2.7 11N20_L



2.8 11N20_M



2.9 11N20_H



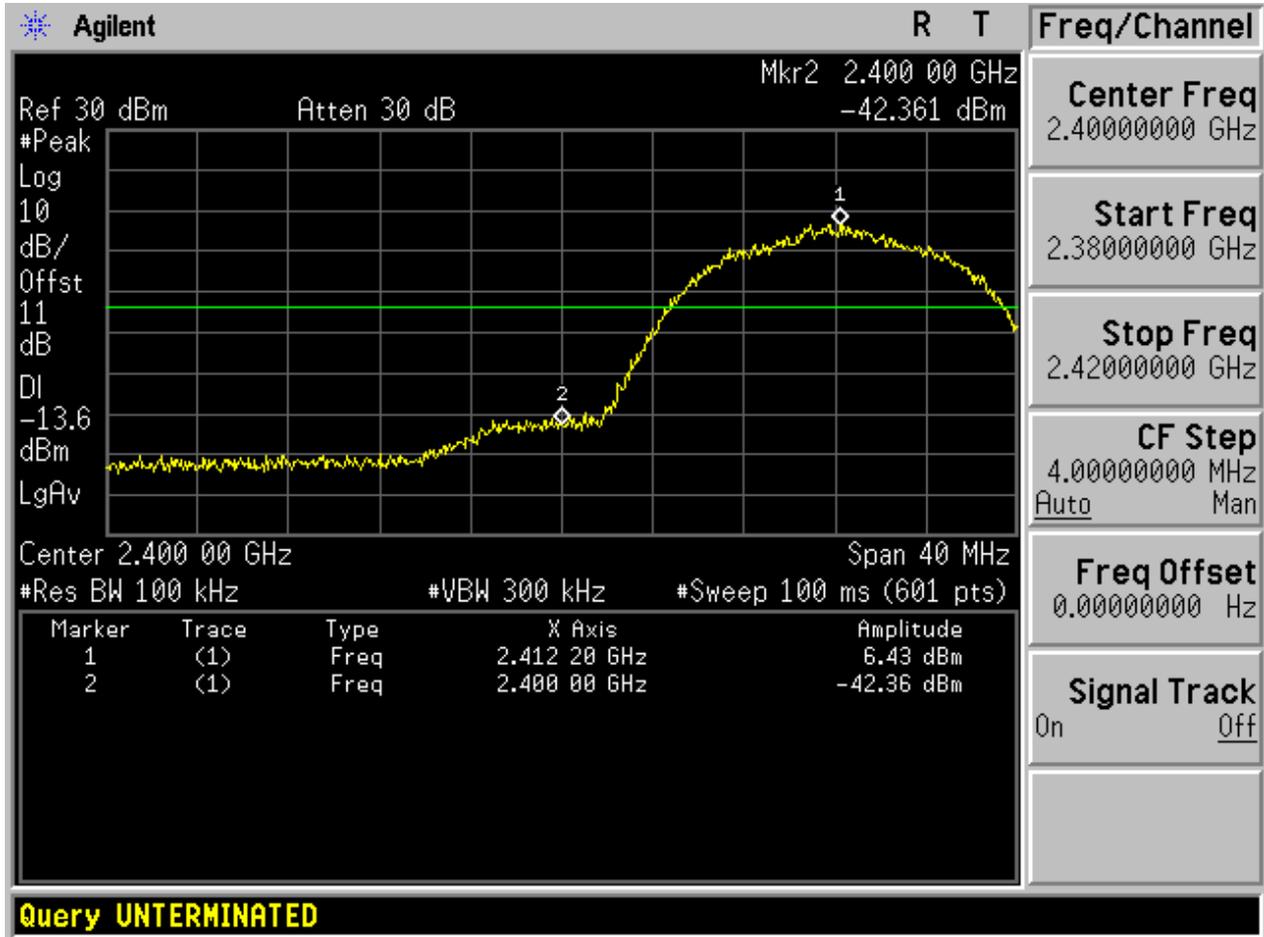
Appendix D: Band Edges Compliance

Part I - Test Results

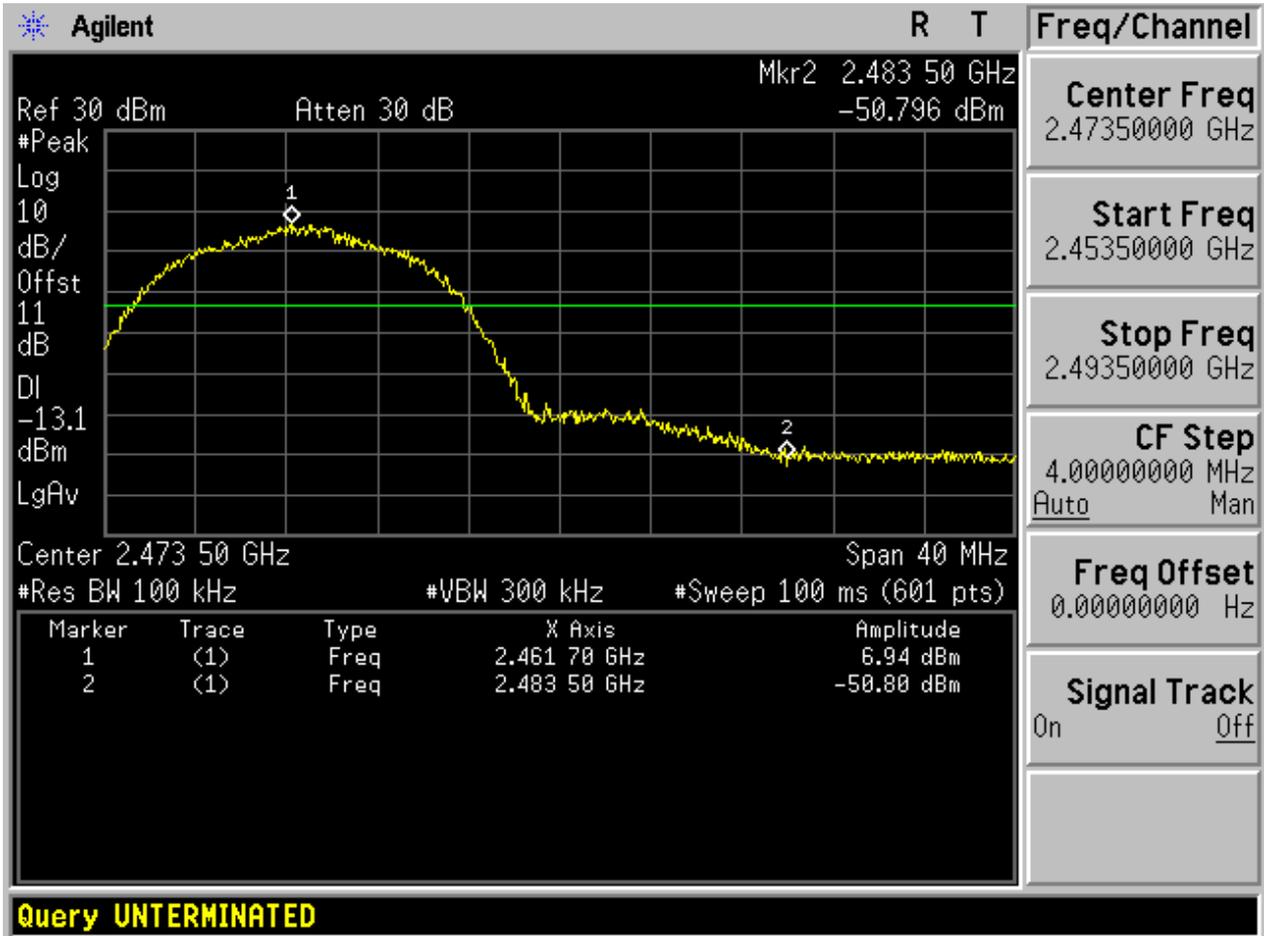
Test Mode	Test Channel	Frequency[MHz]	Carrier Power[dBm]	Max.Spurious Level[dBm]	Verdict
11B	L	2412	6.43	-42.36	pass
11B	H	2462	6.94	-50.80	pass
11G	L	2412	1.60	-37.08	pass
11G	H	2462	2.42	-47.69	pass
11N20	L	2412	1.46	-35.99	pass
11N20	H	2462	2.22	-45.36	pass

Part II - Test Plots

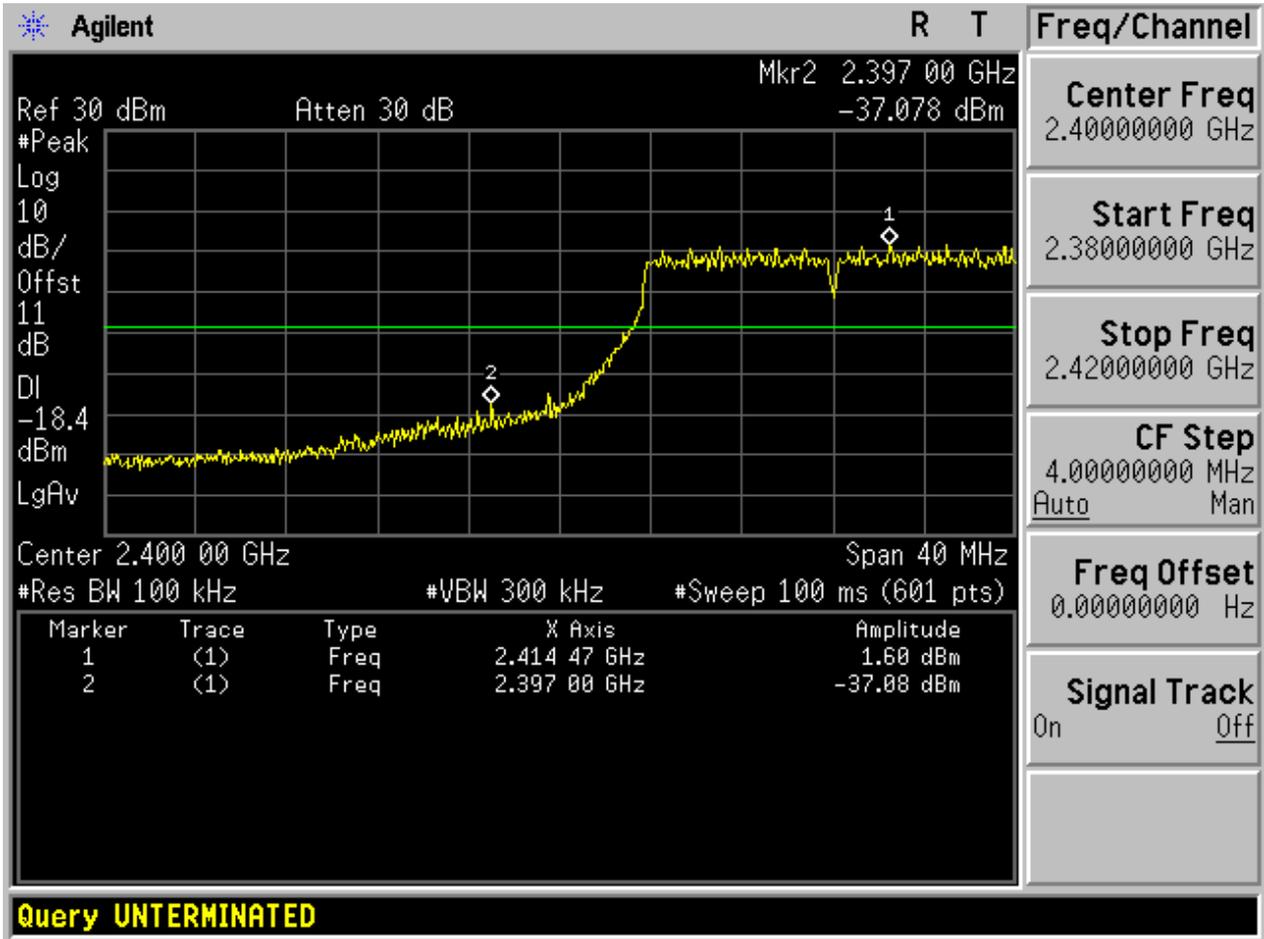
2.1 11B_L



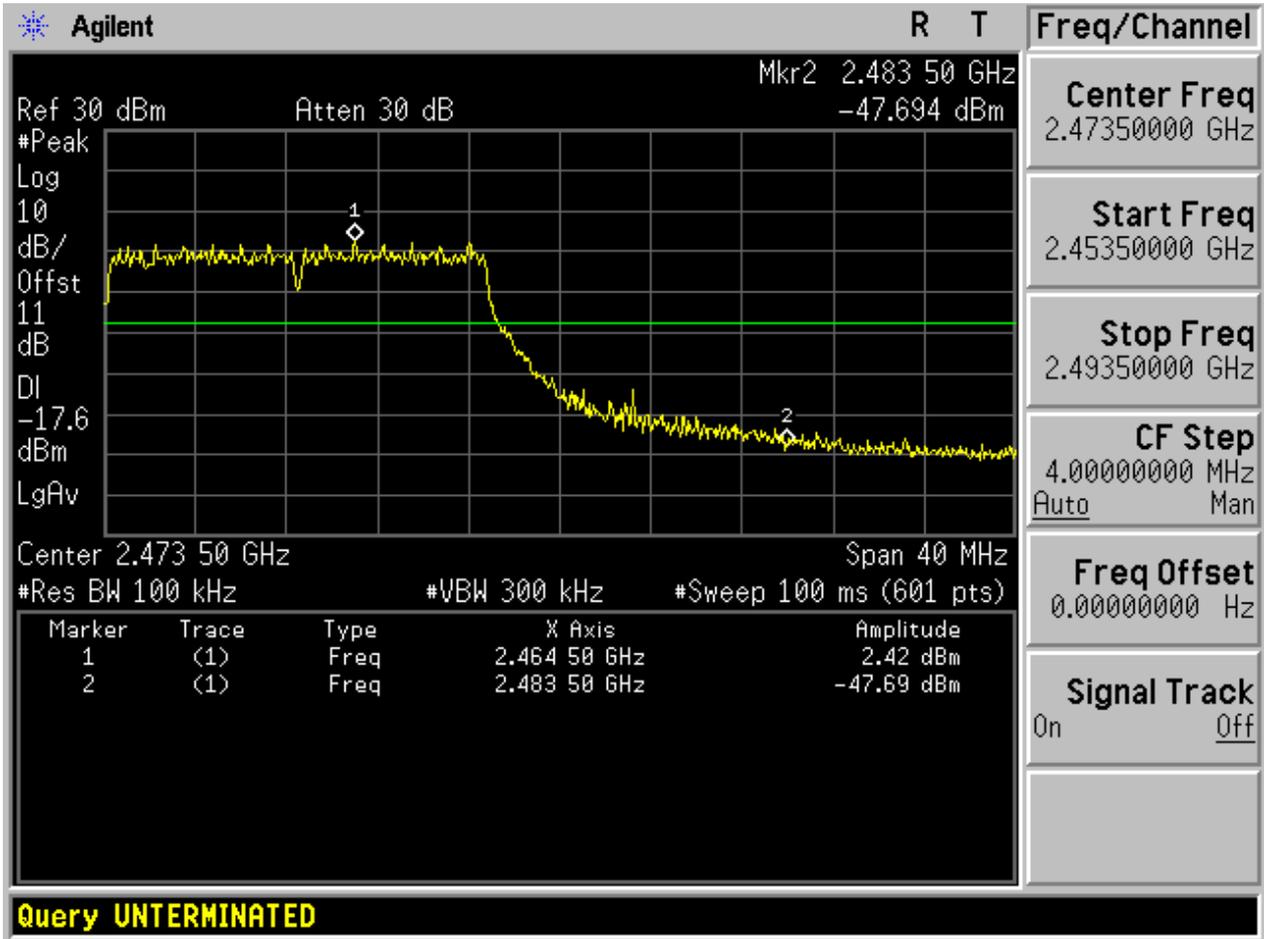
2.2 11B_H



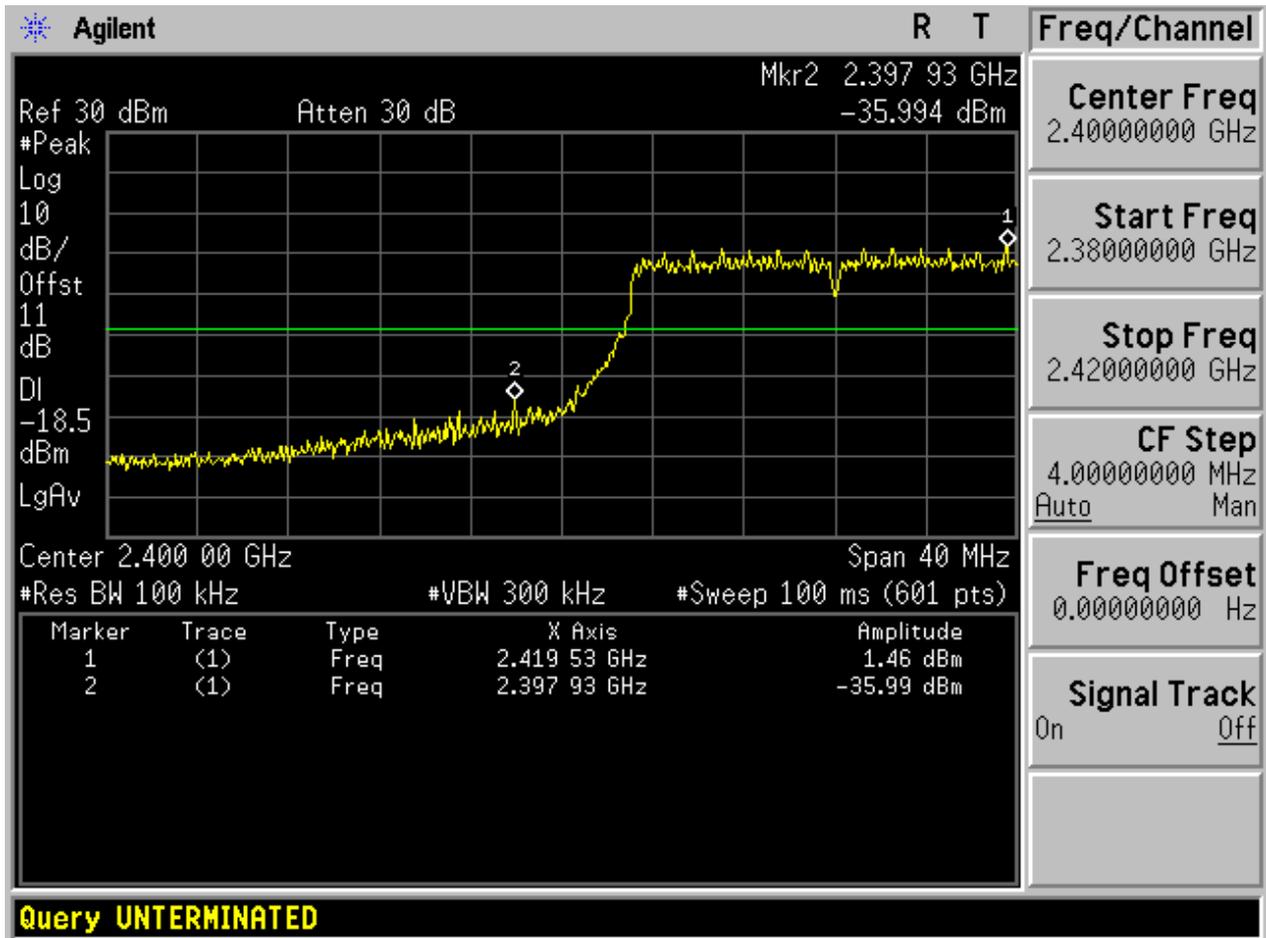
2.3 11G_L



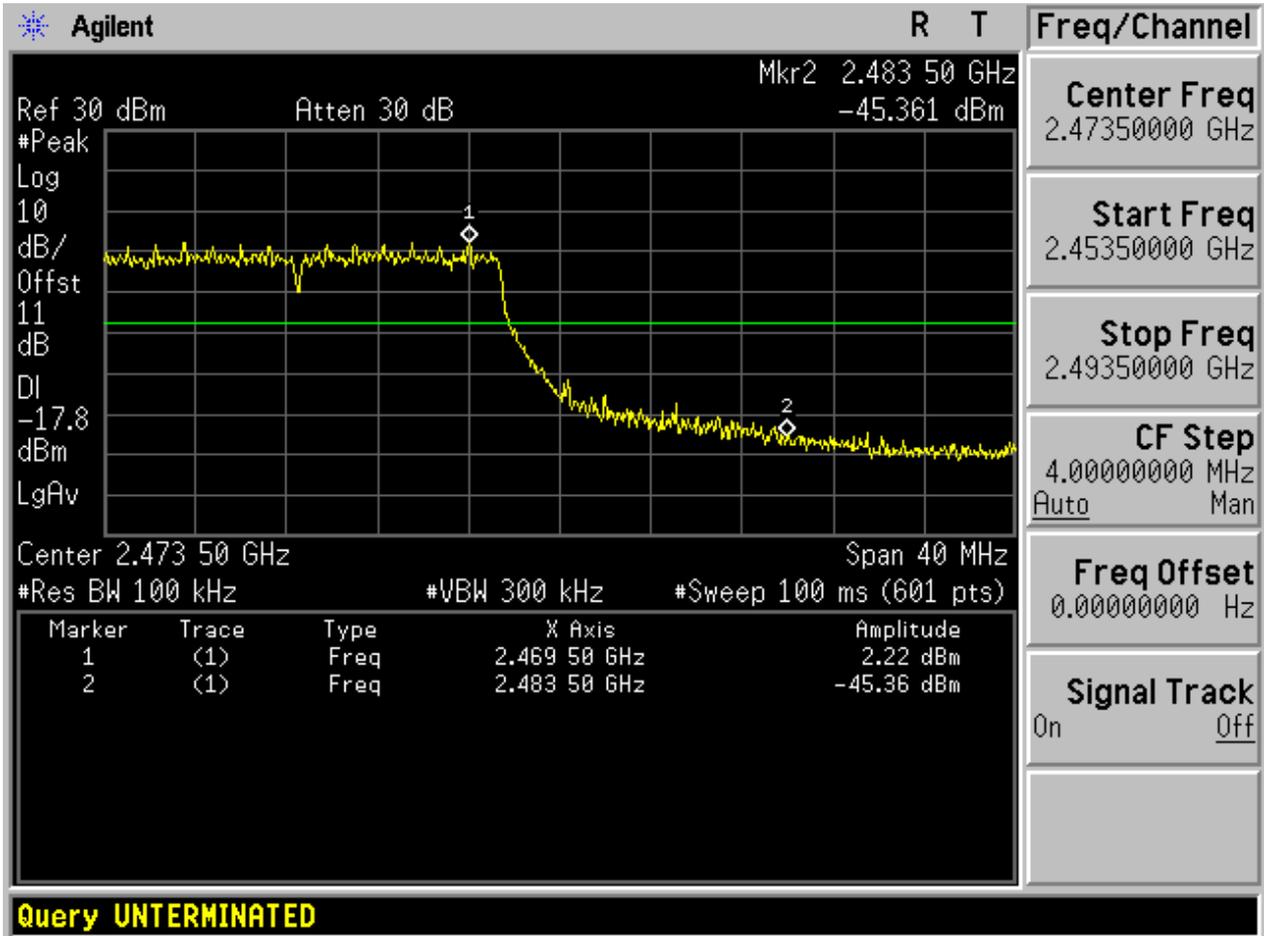
2.4 11G_H



2.5 11N20_L



2.6 11N20_H



Appendix E: Unwanted Emissions into Non-Restricted Frequency

Bands

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

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

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

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

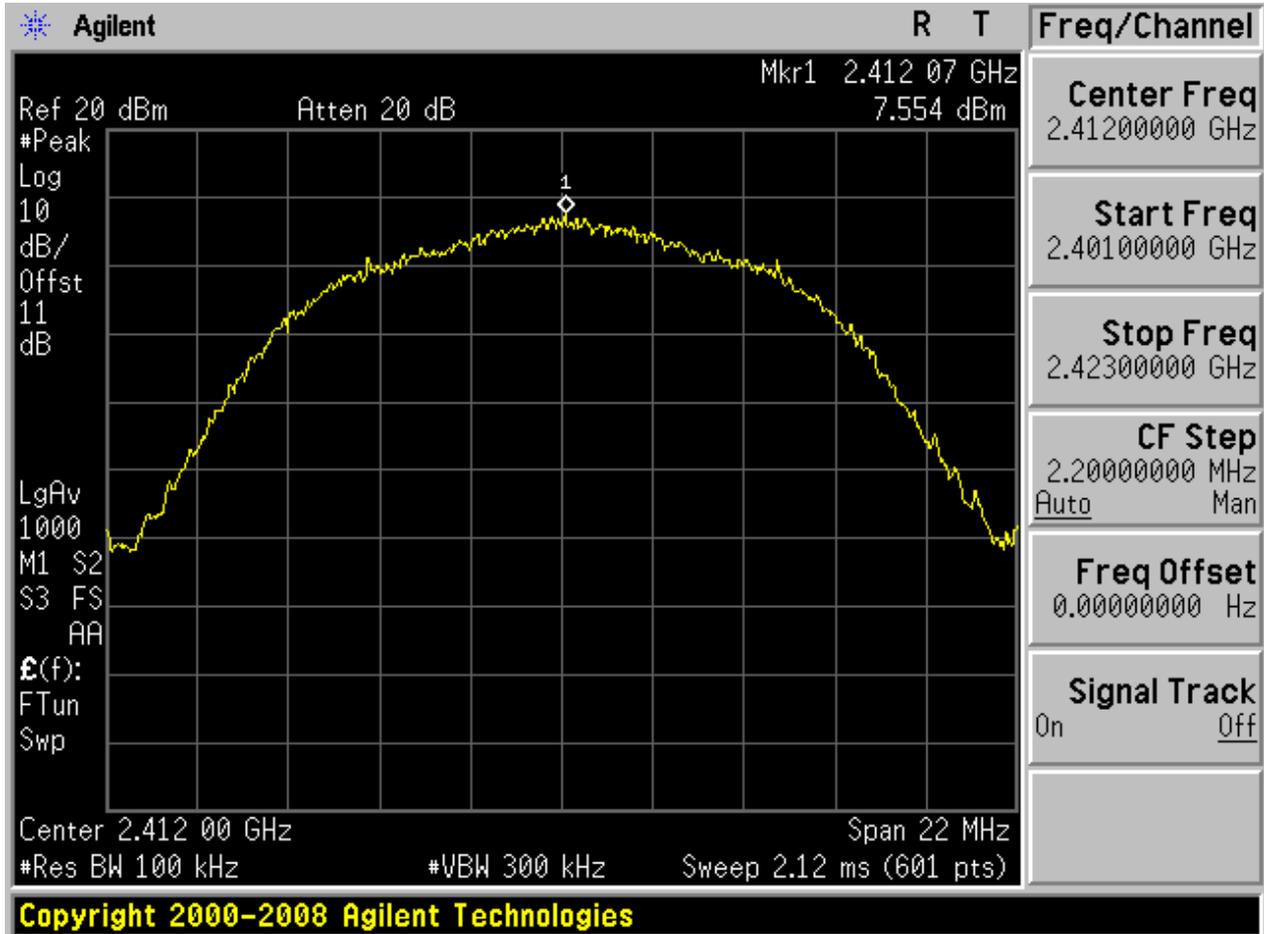
Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Pref[dBm]	Puw[dBm]	Verdict
11B	L	2412	7.55	<limit	pass
11B	M	2437	8.00	<limit	pass
11B	H	2462	8.17	<limit	pass
11G	L	2412	1.68	<limit	pass
11G	M	2437	2.24	<limit	pass
11G	H	2462	2.60	<limit	pass
11N20	L	2412	1.70	<limit	pass
11N20	M	2437	2.25	<limit	pass
11N20	H	2462	2.47	<limit	pass

Part II - Test Plots

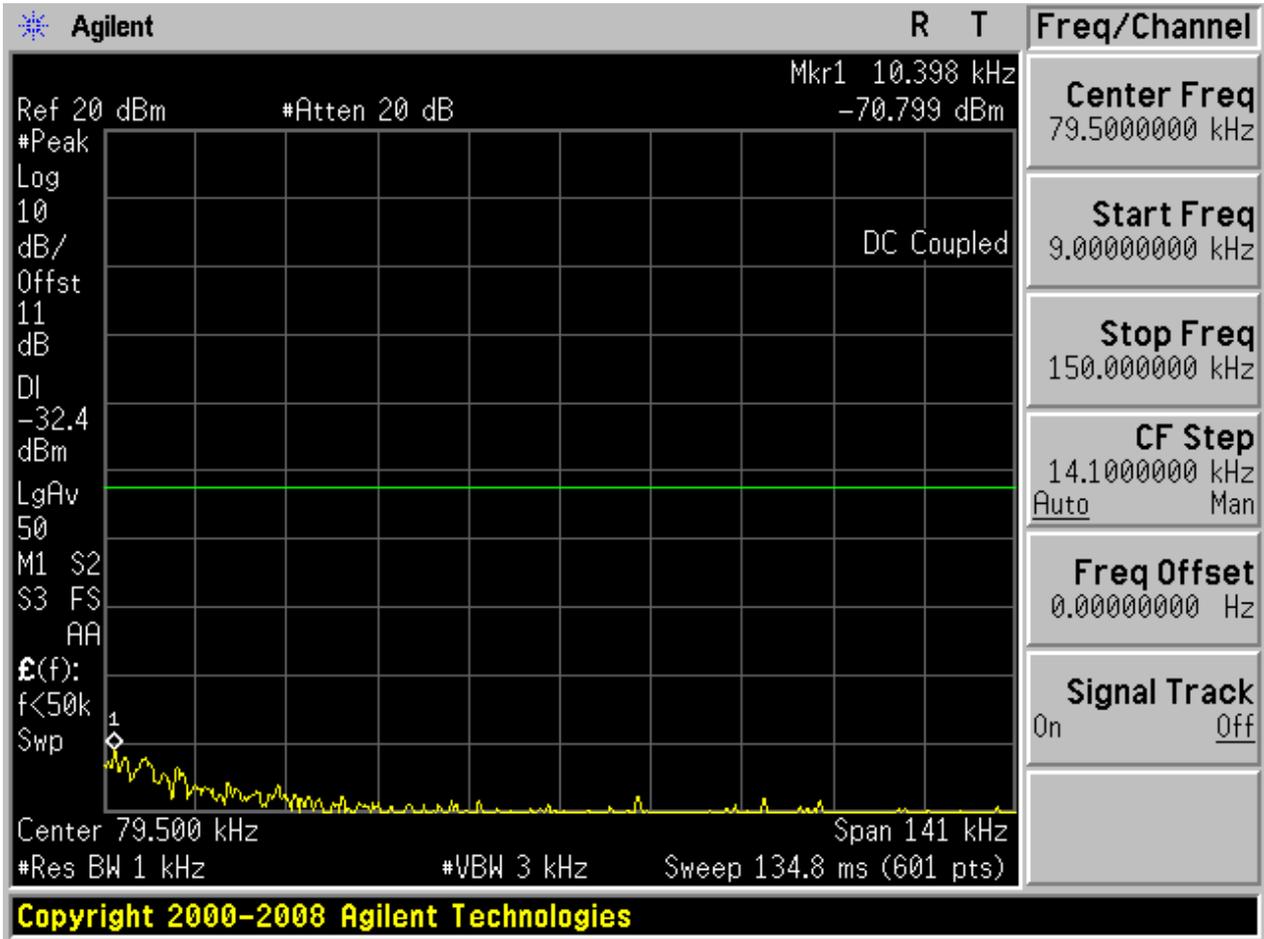
2.1 11B_L

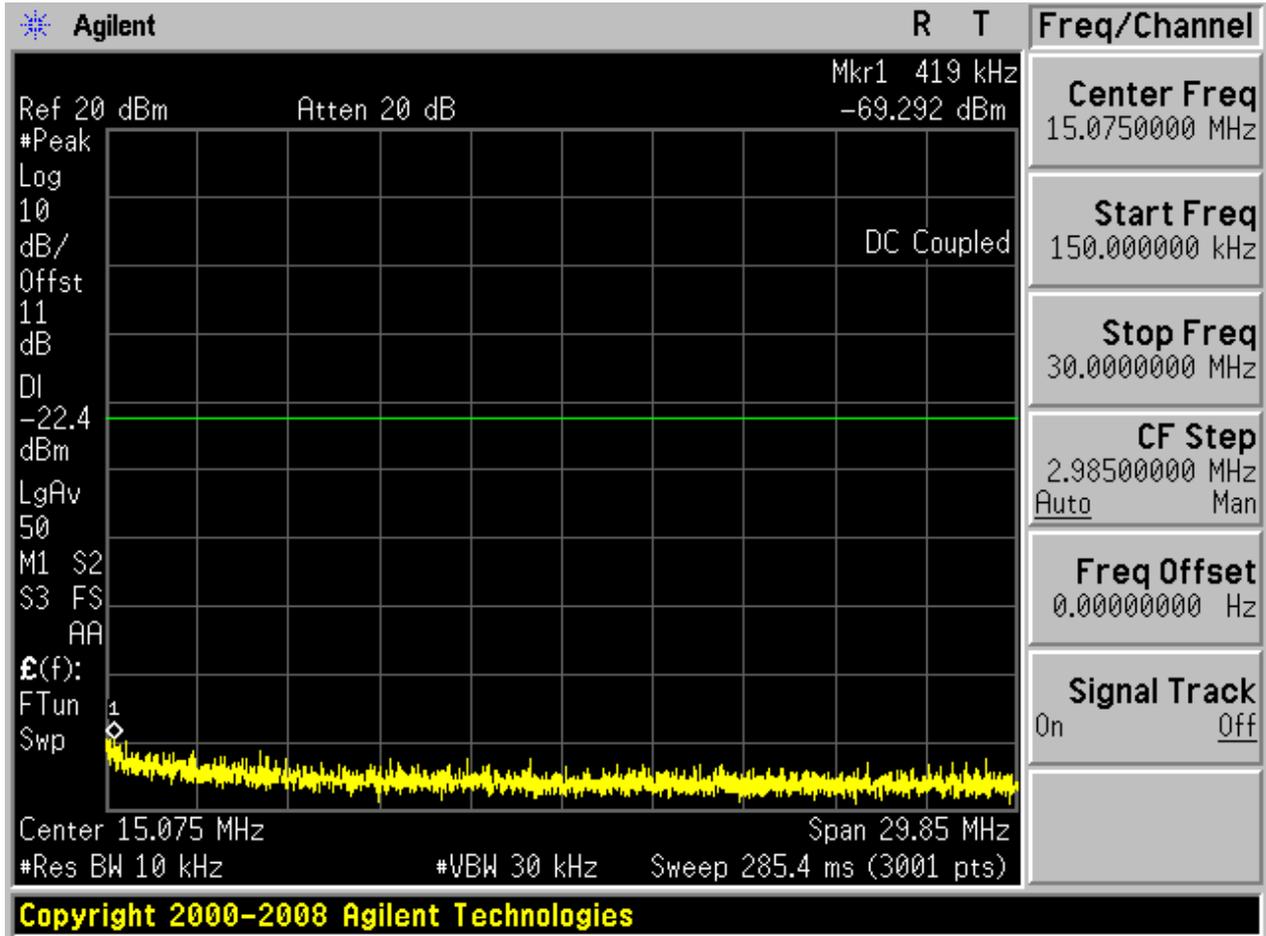
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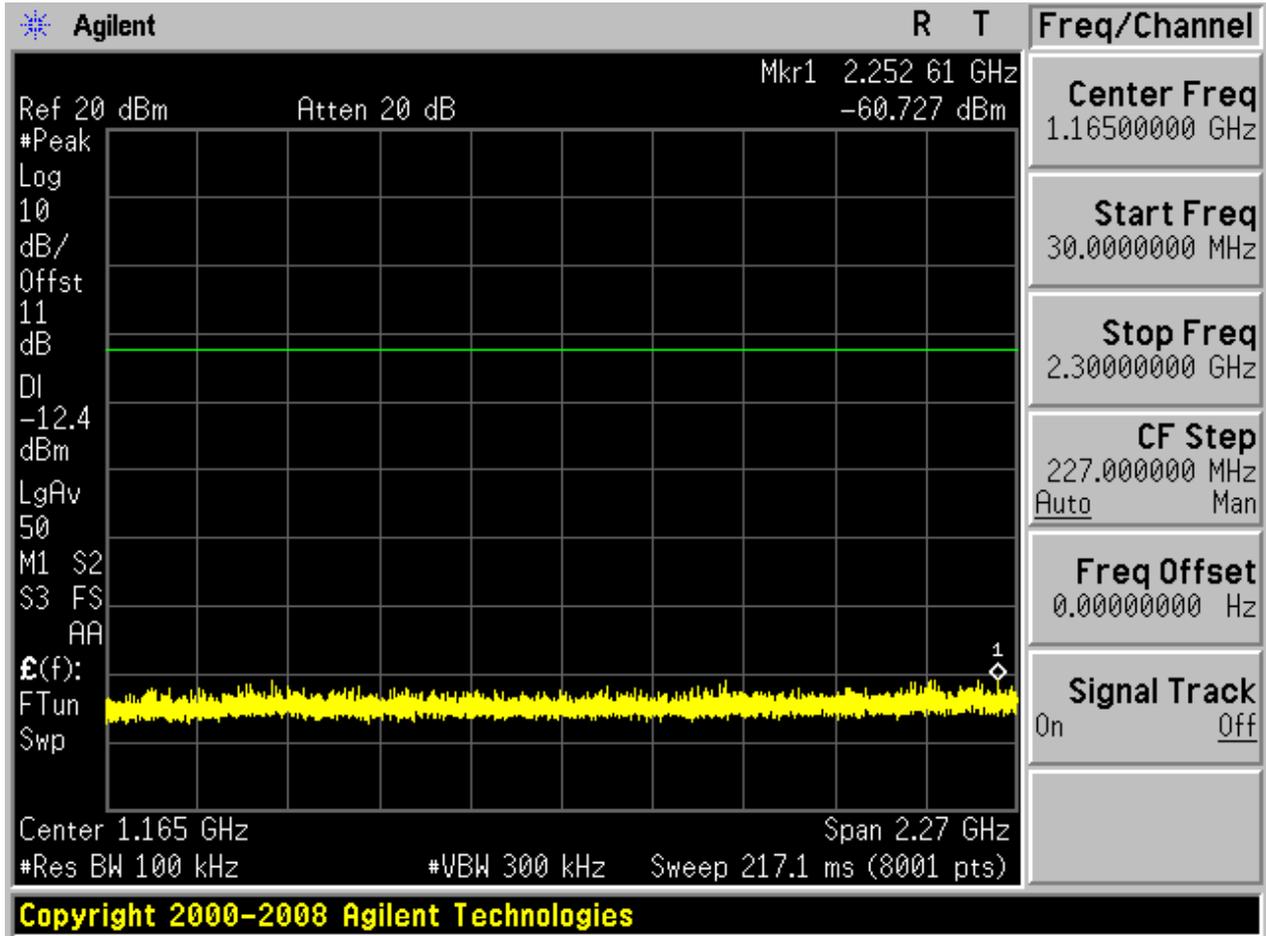


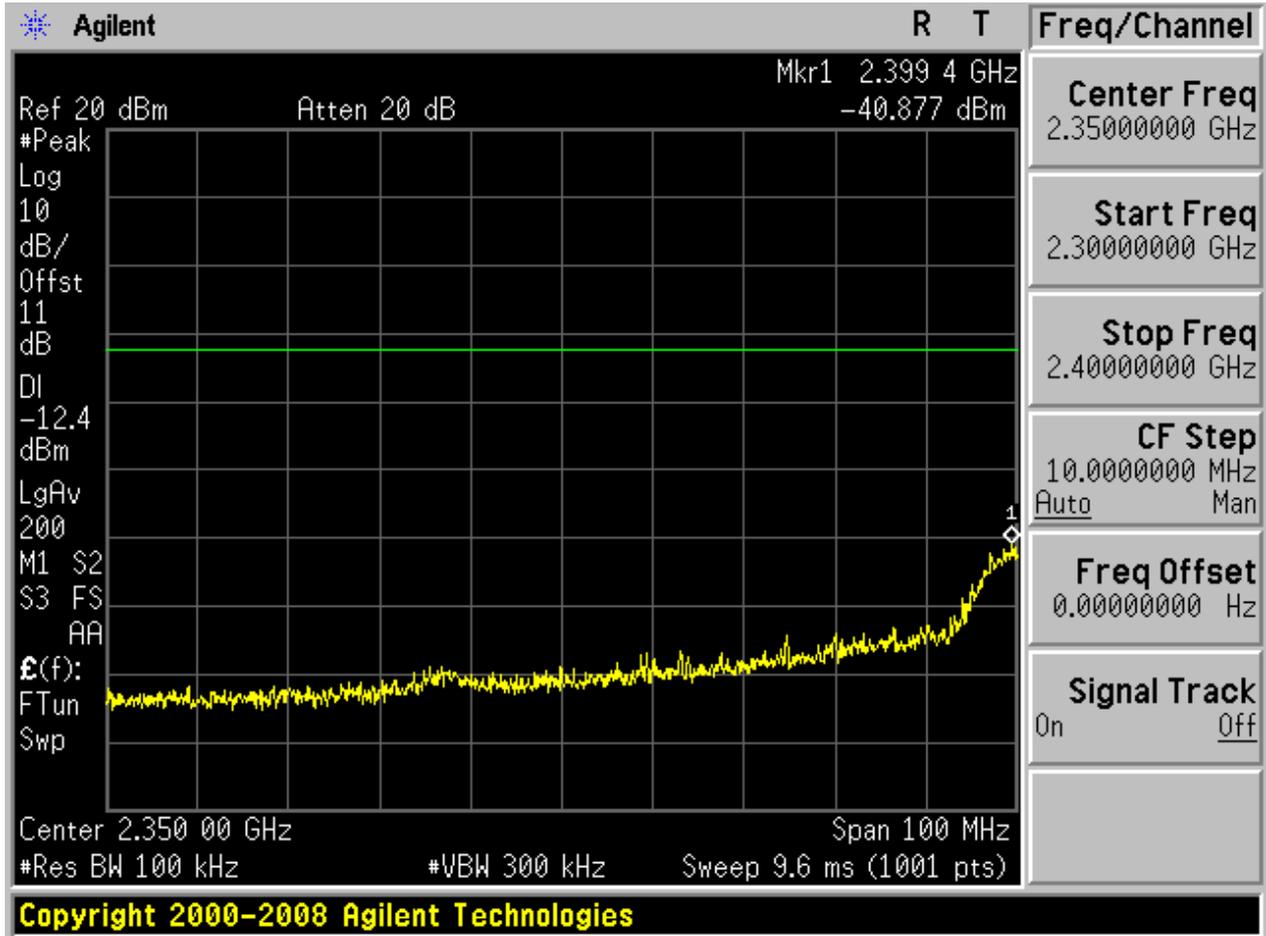


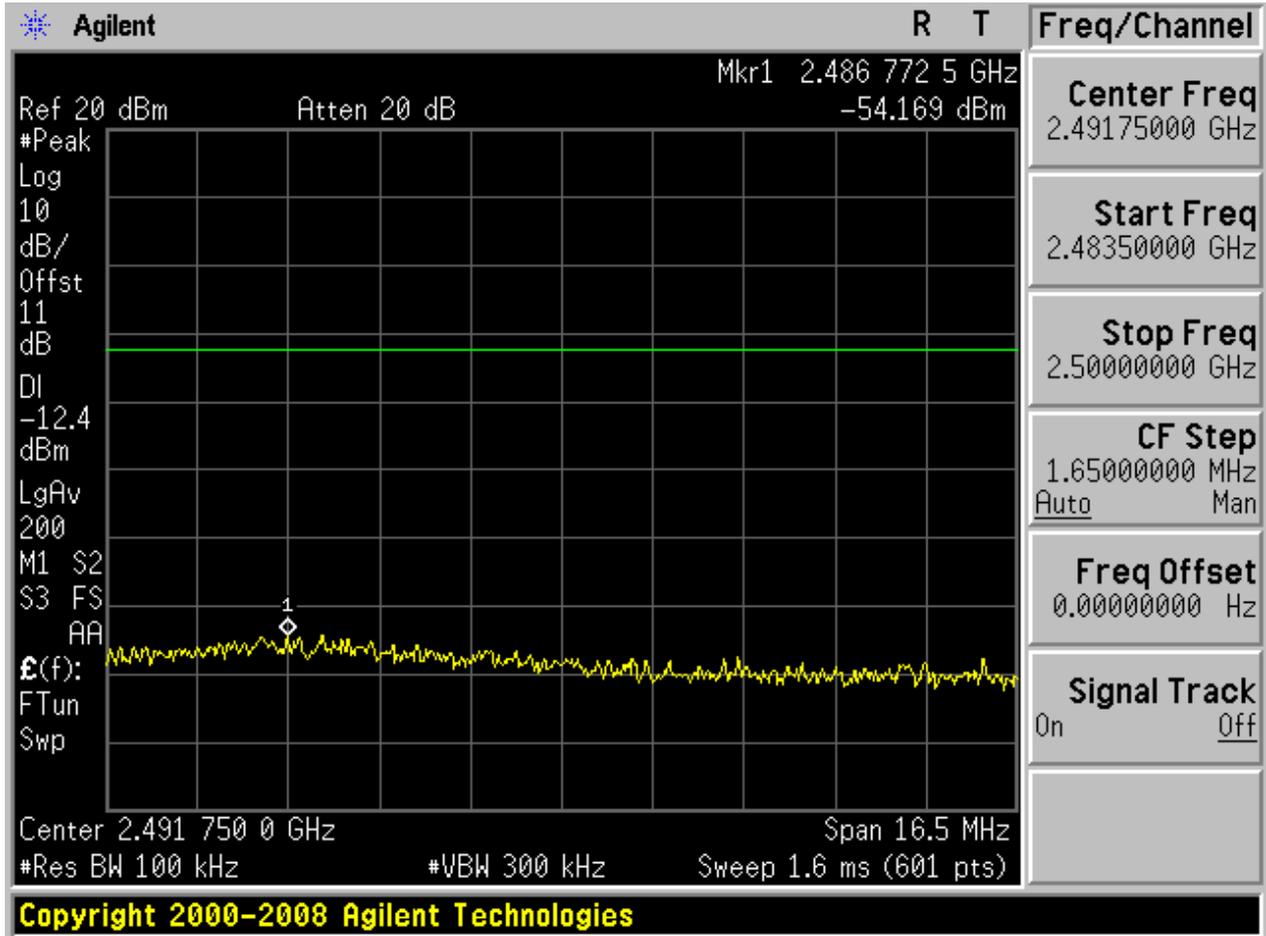
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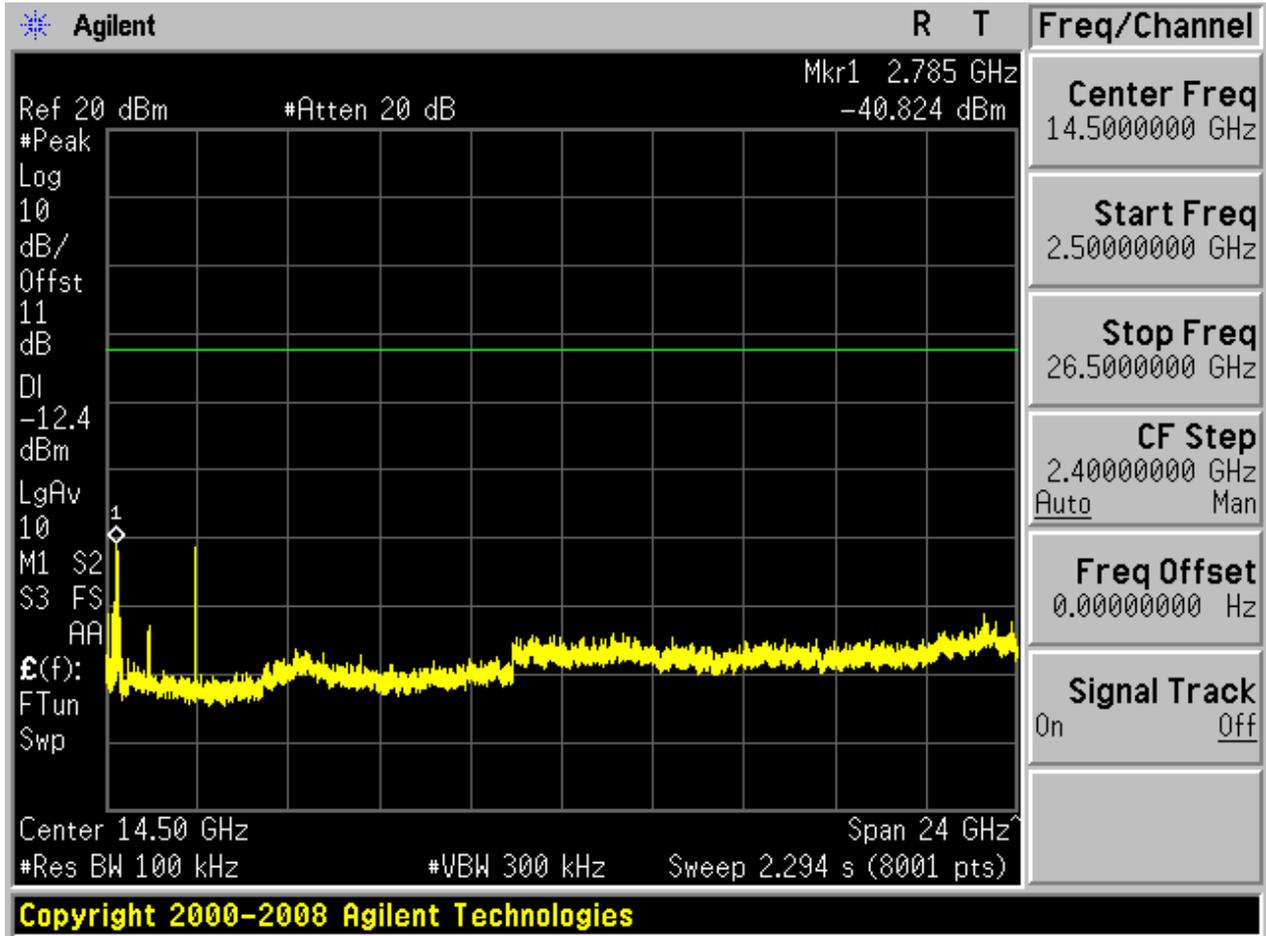








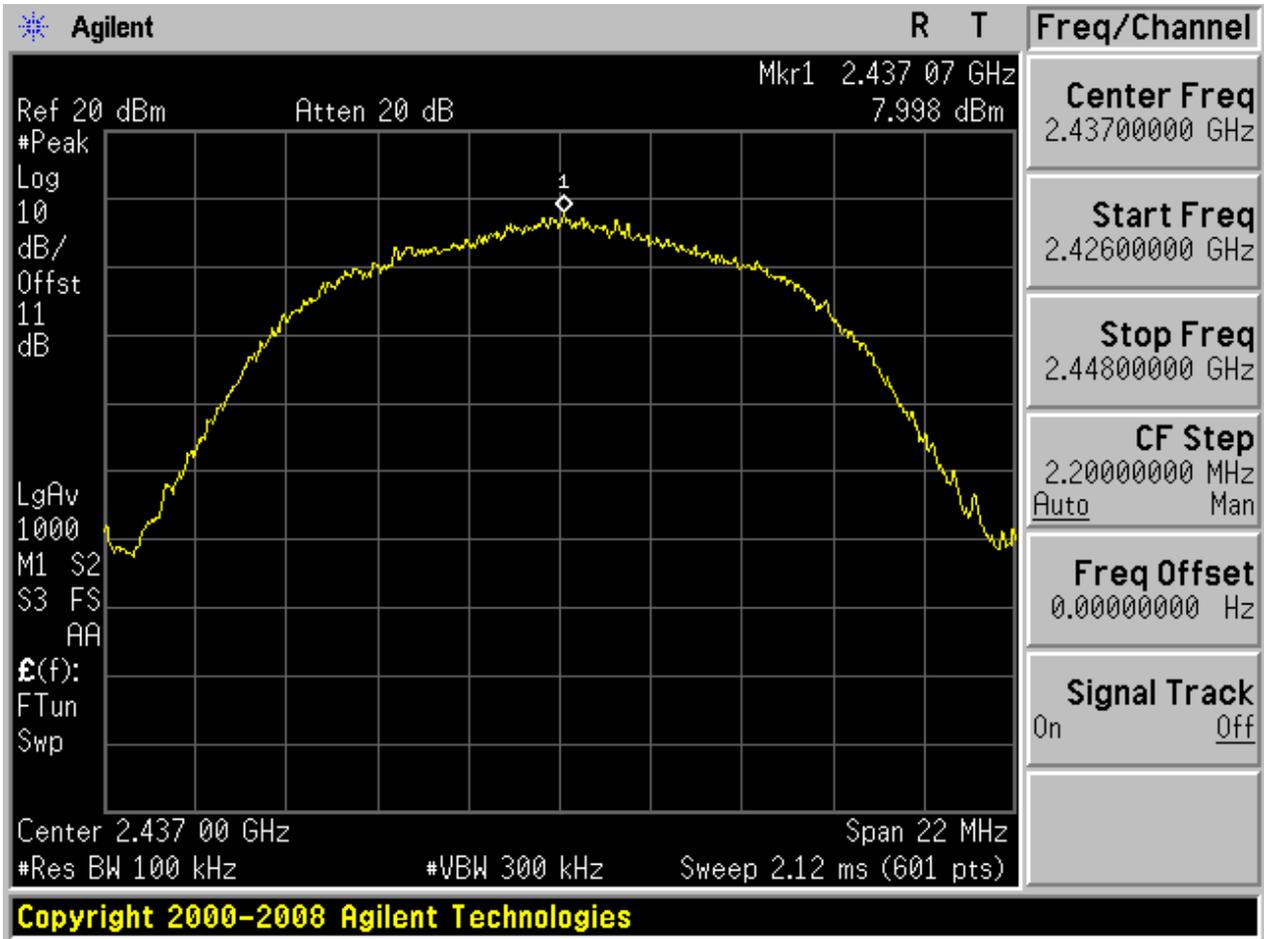






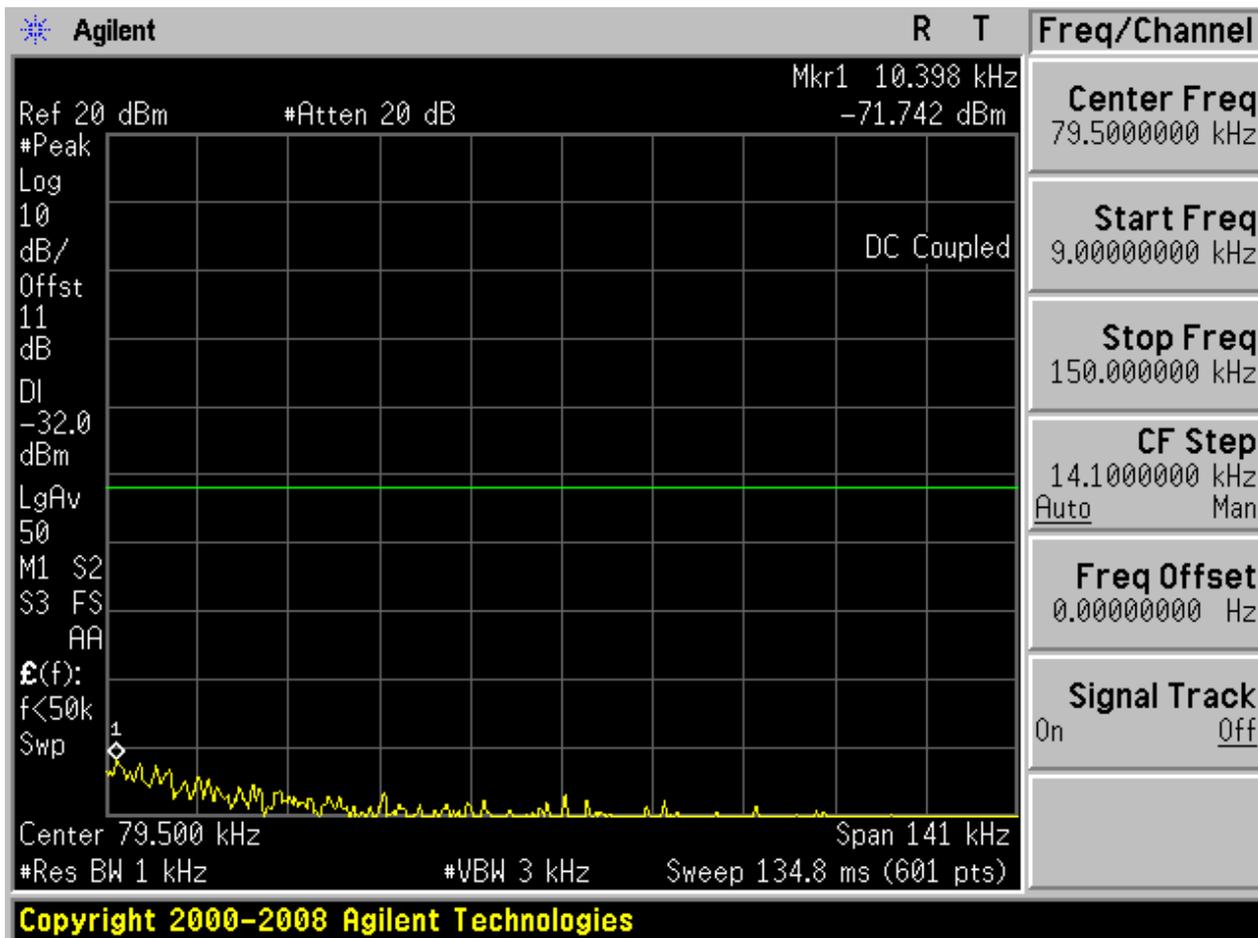
2.2 11B_M

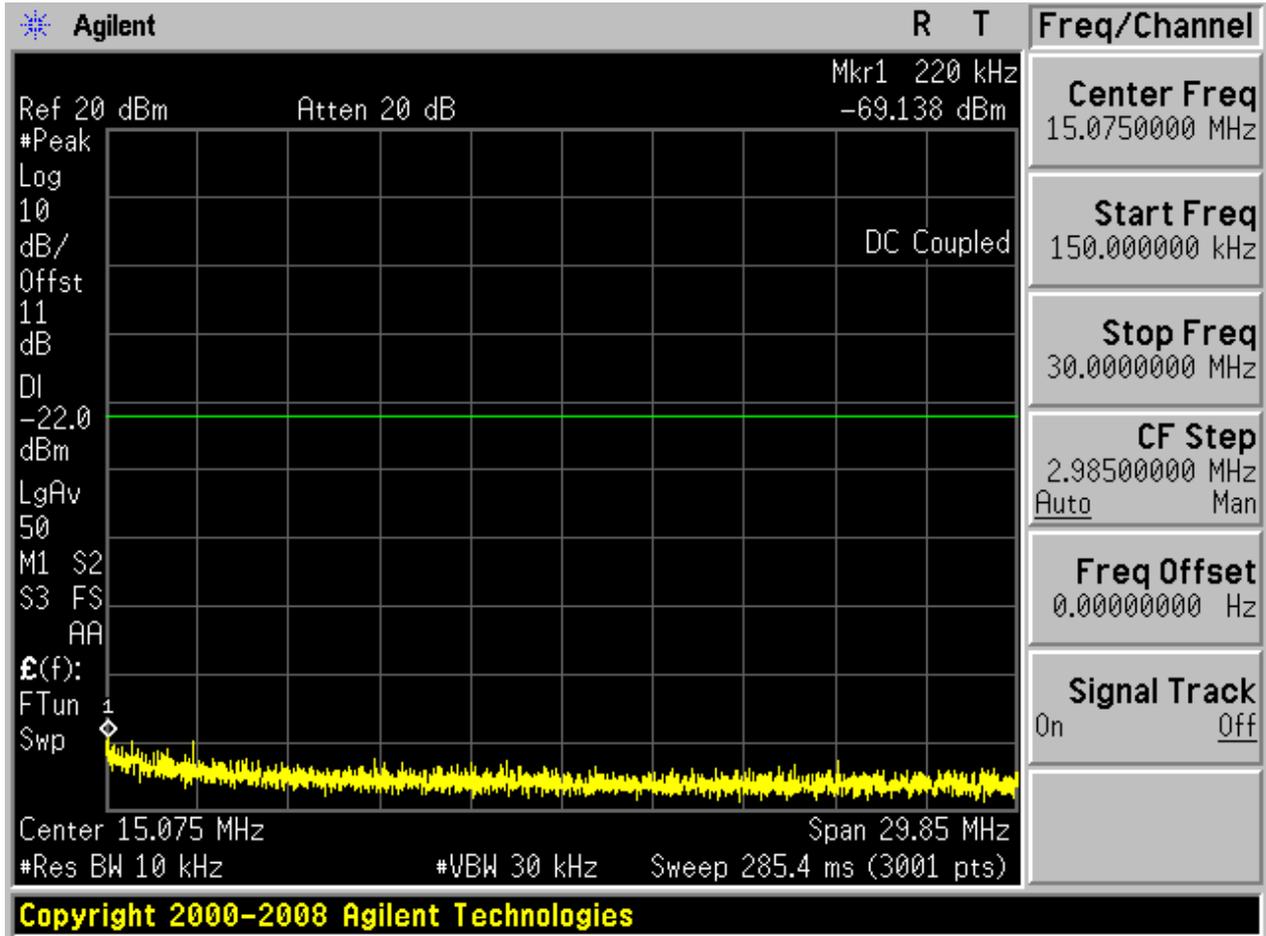
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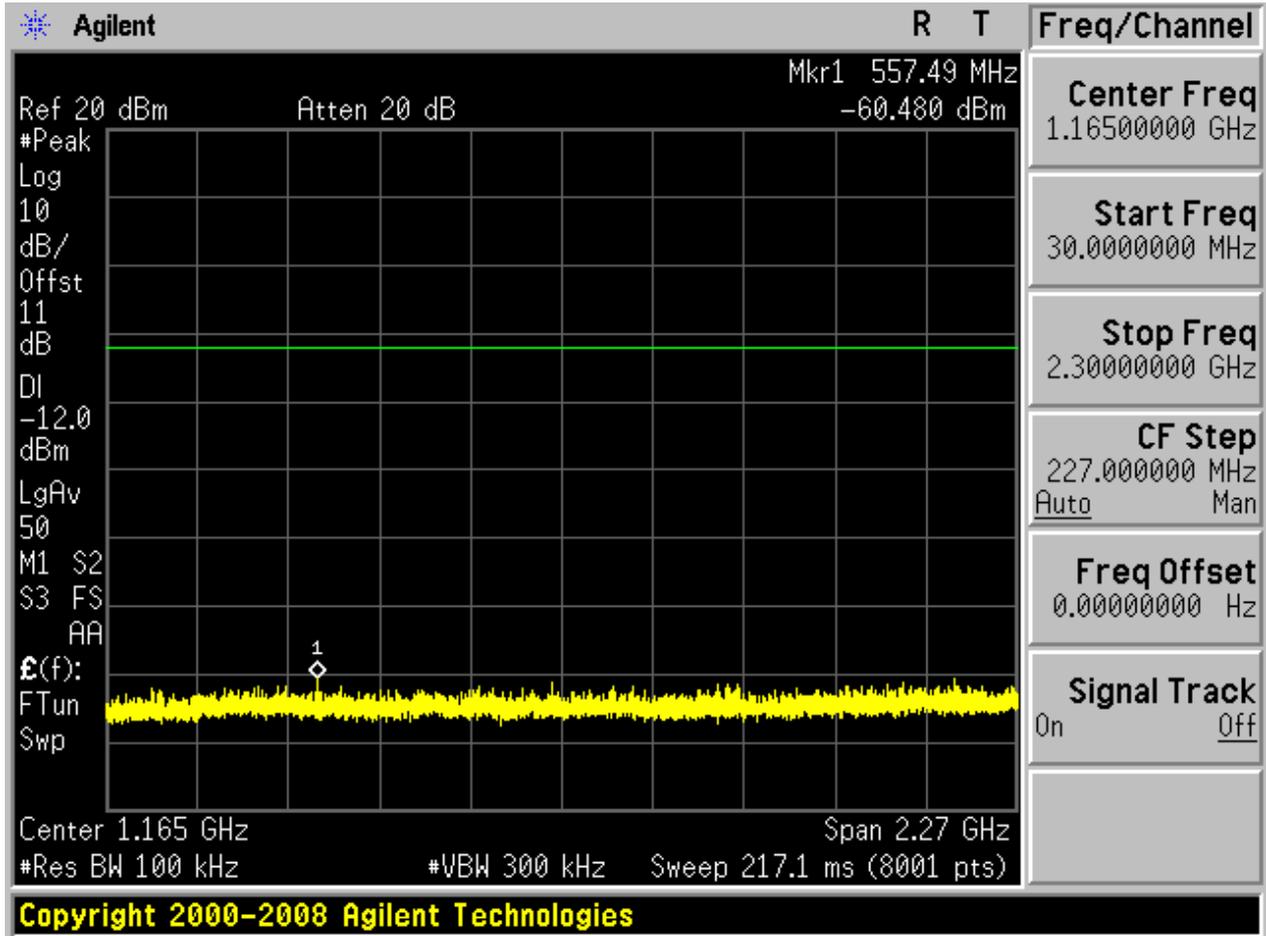


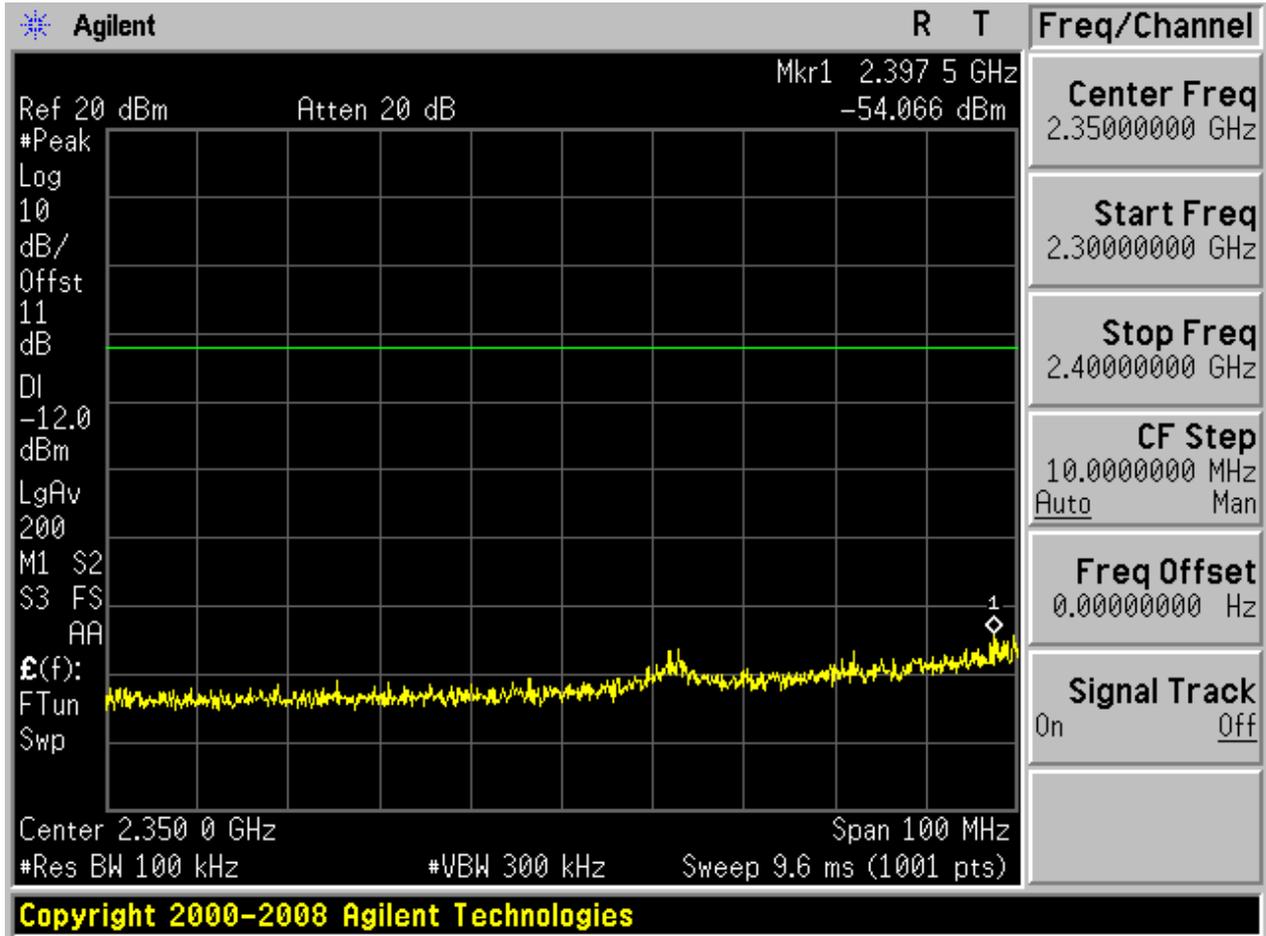


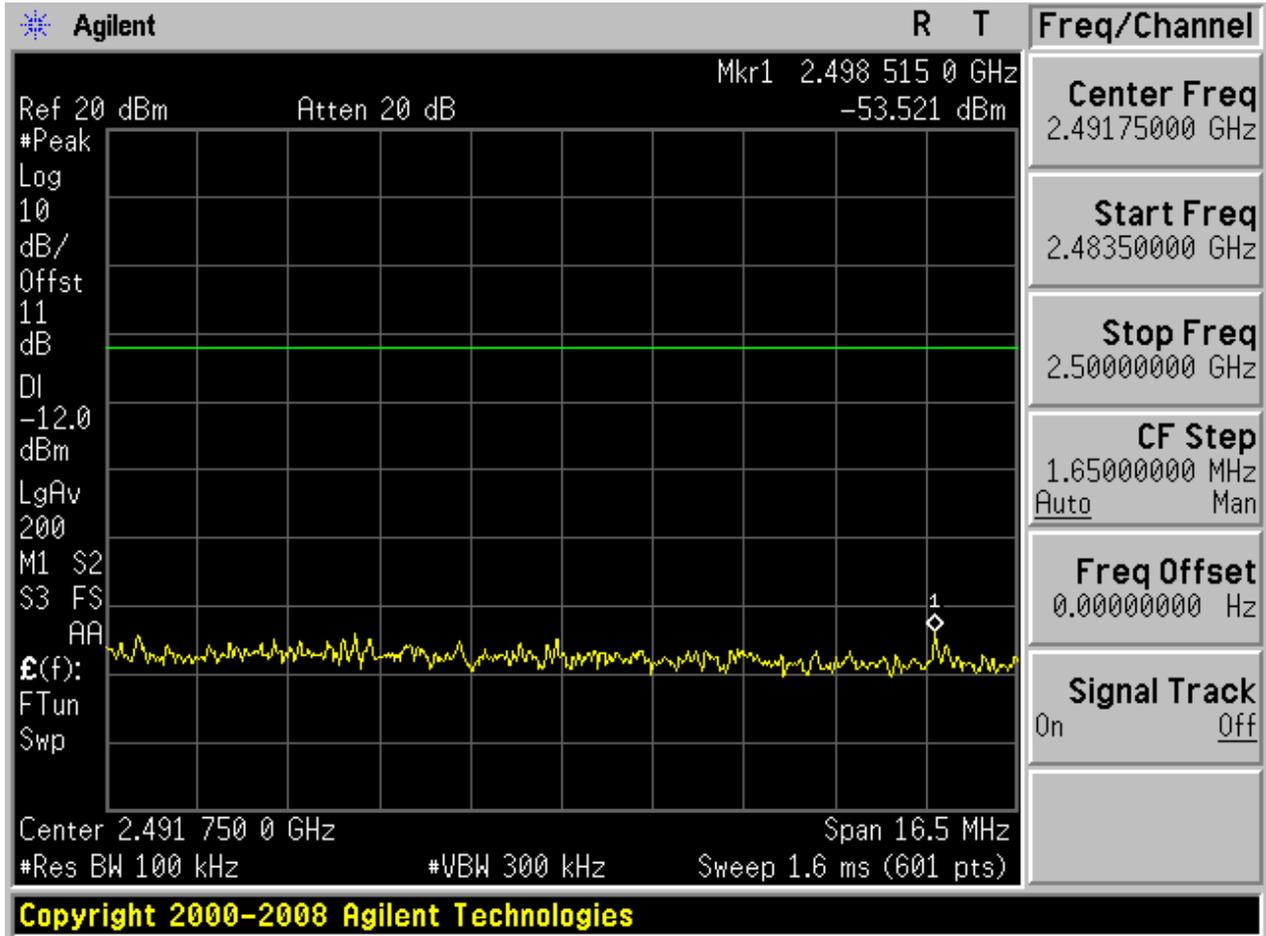
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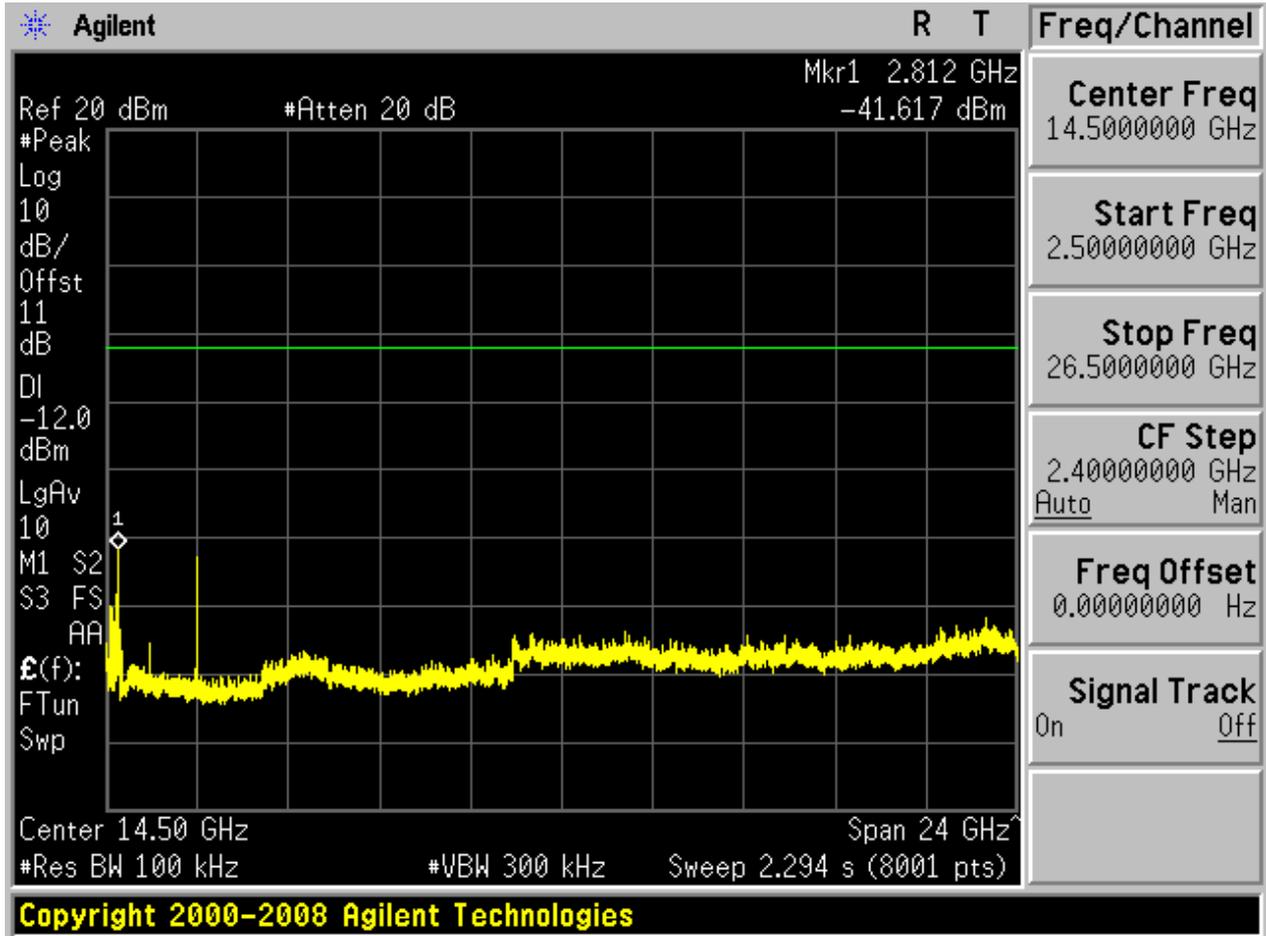






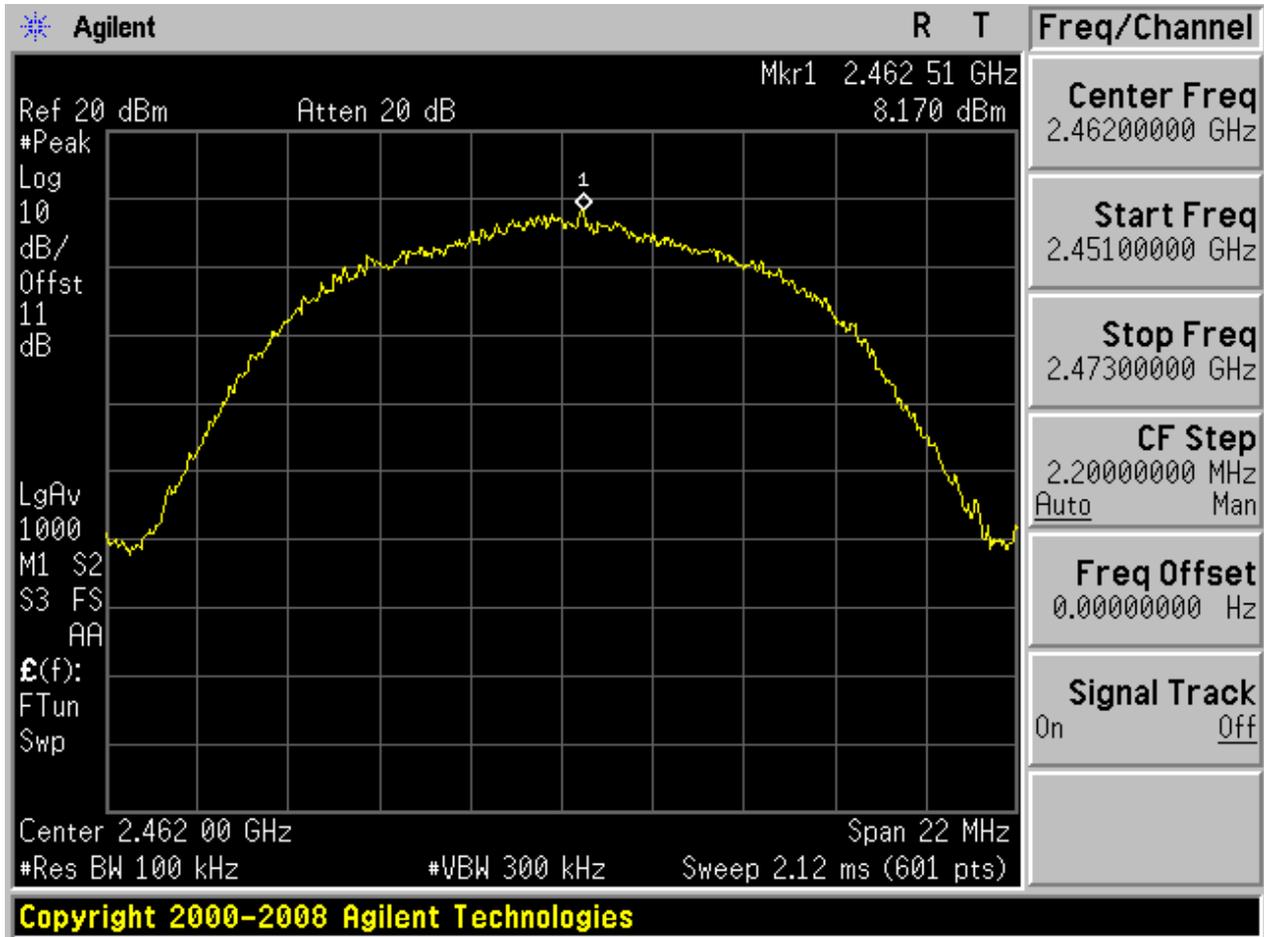






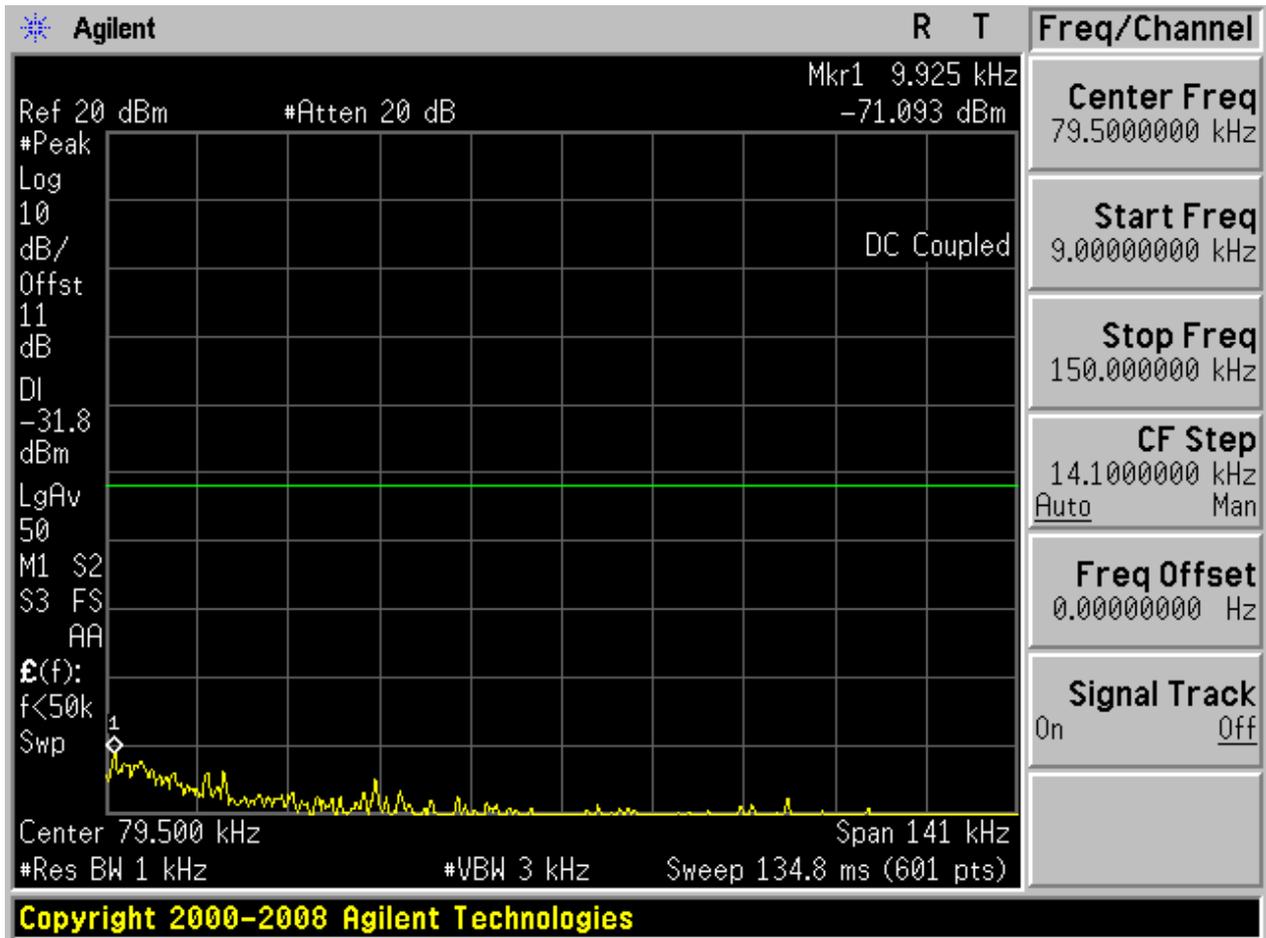
2.3 11B_H

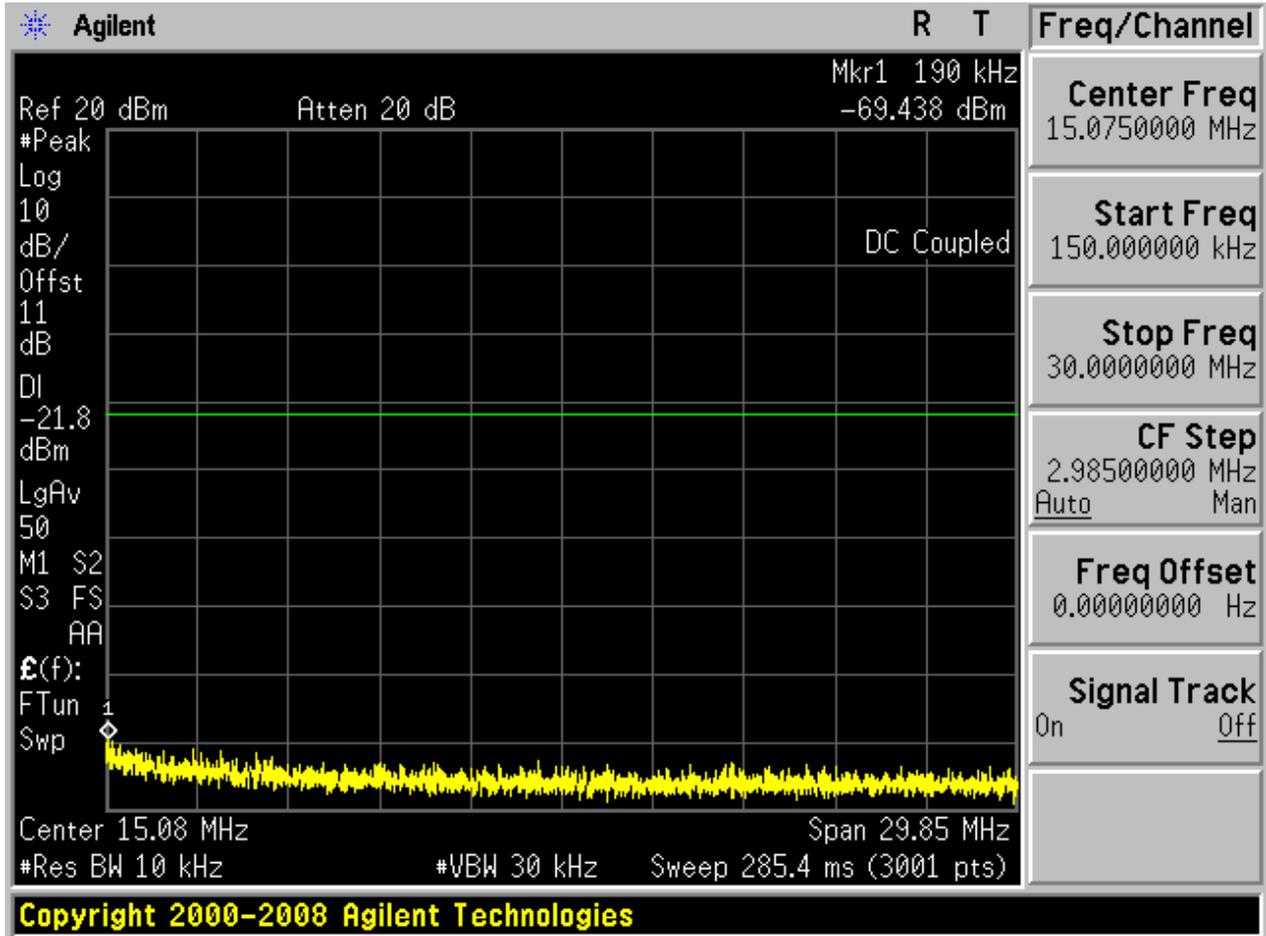
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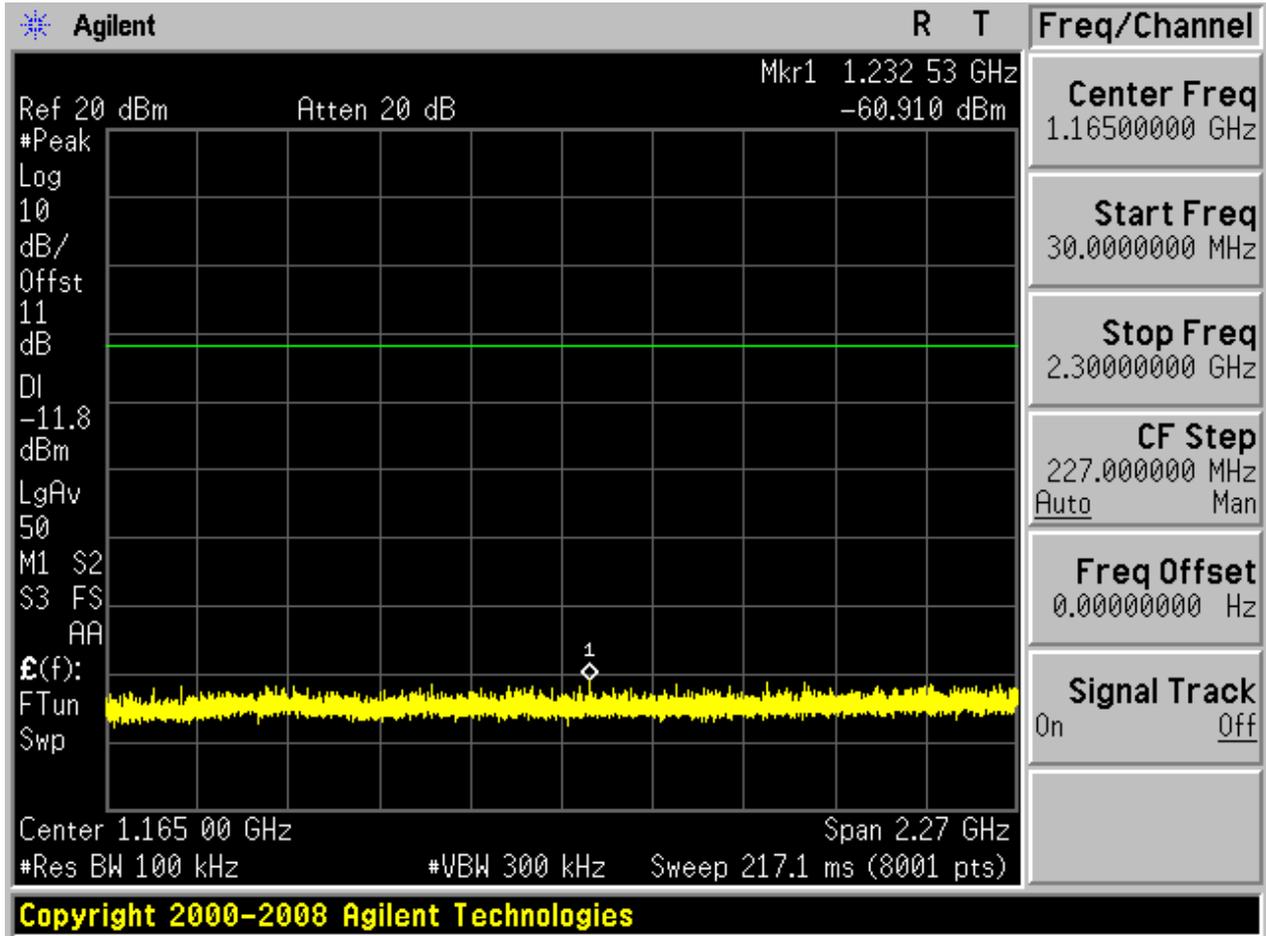


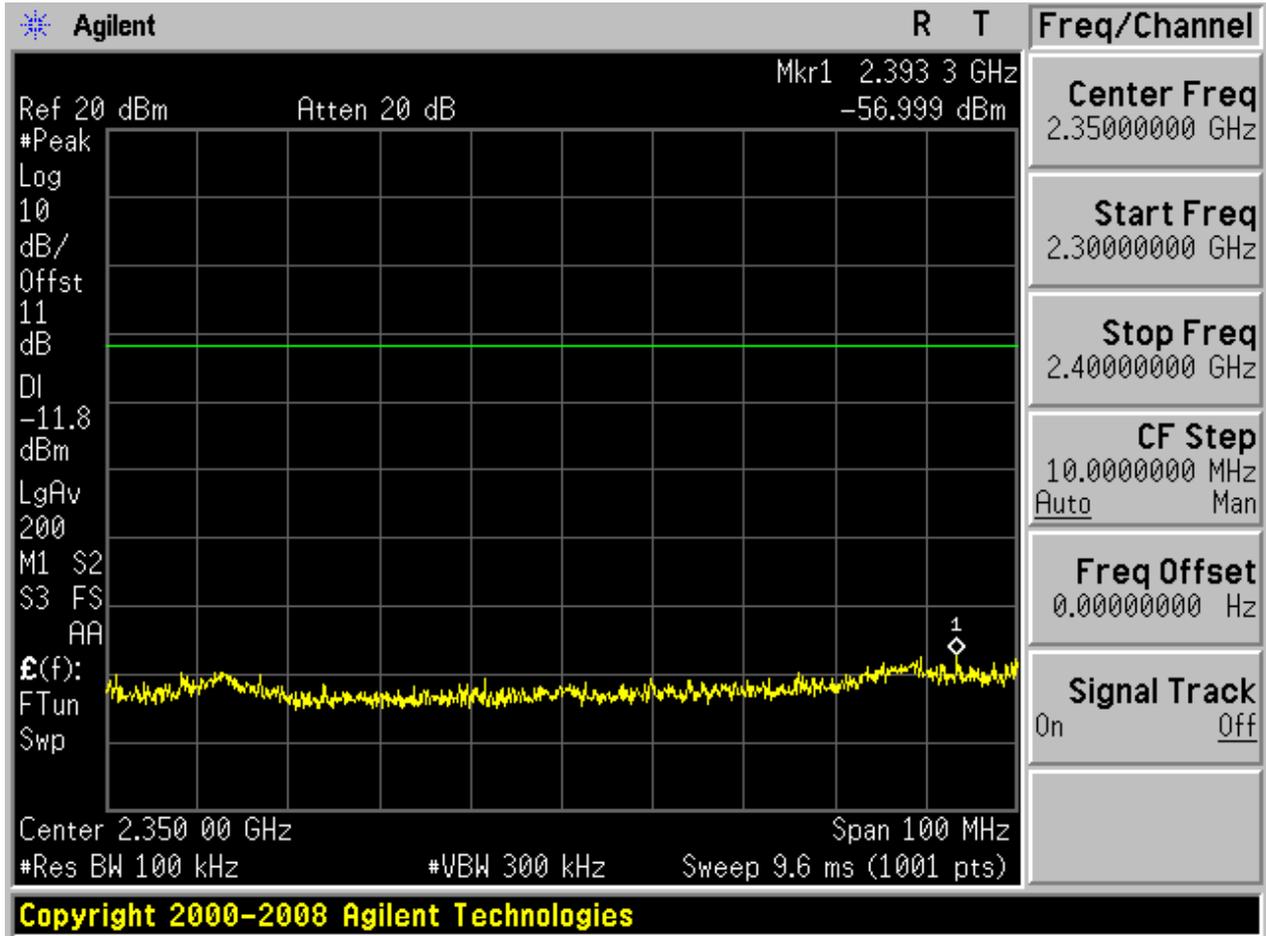


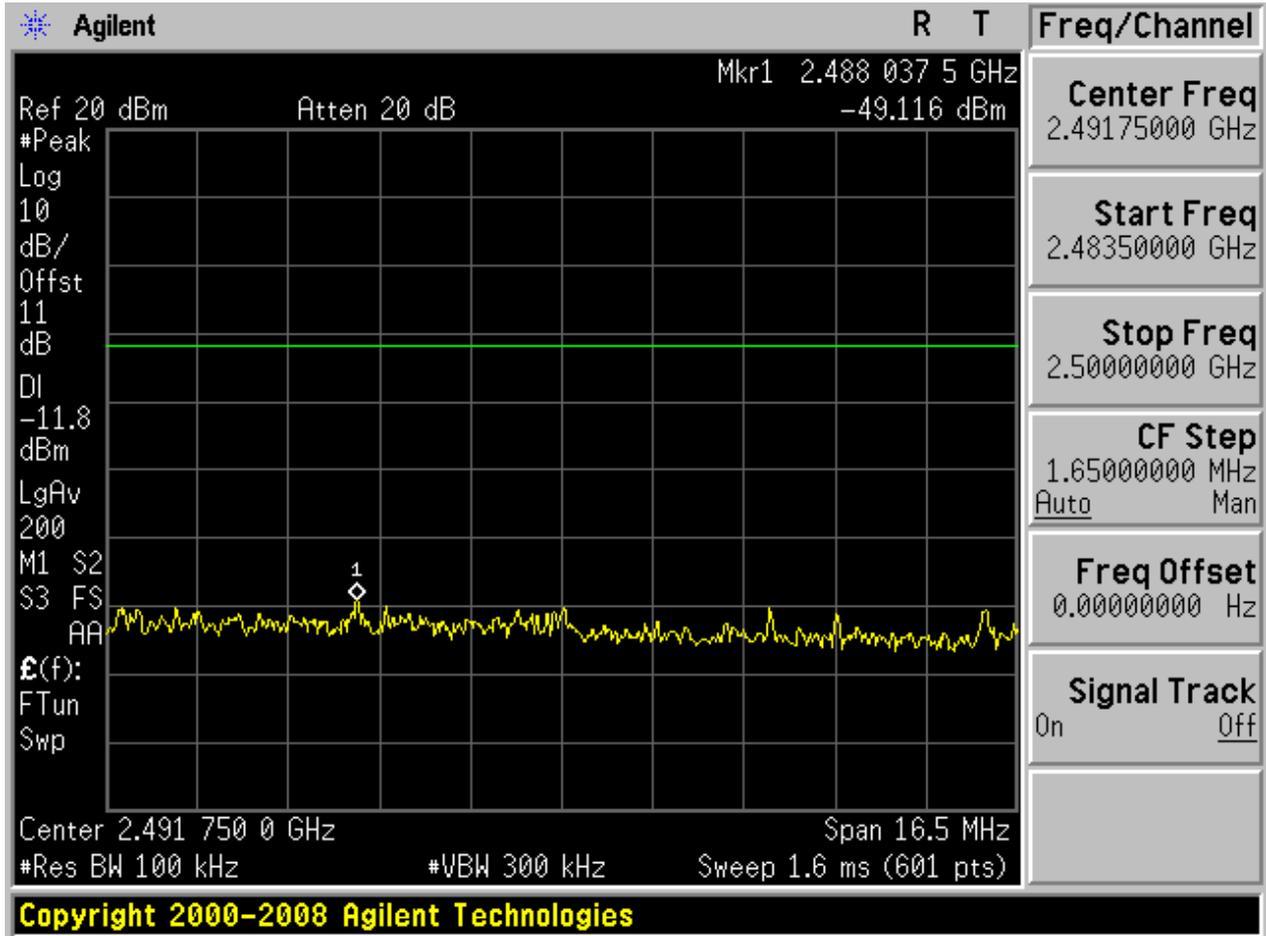
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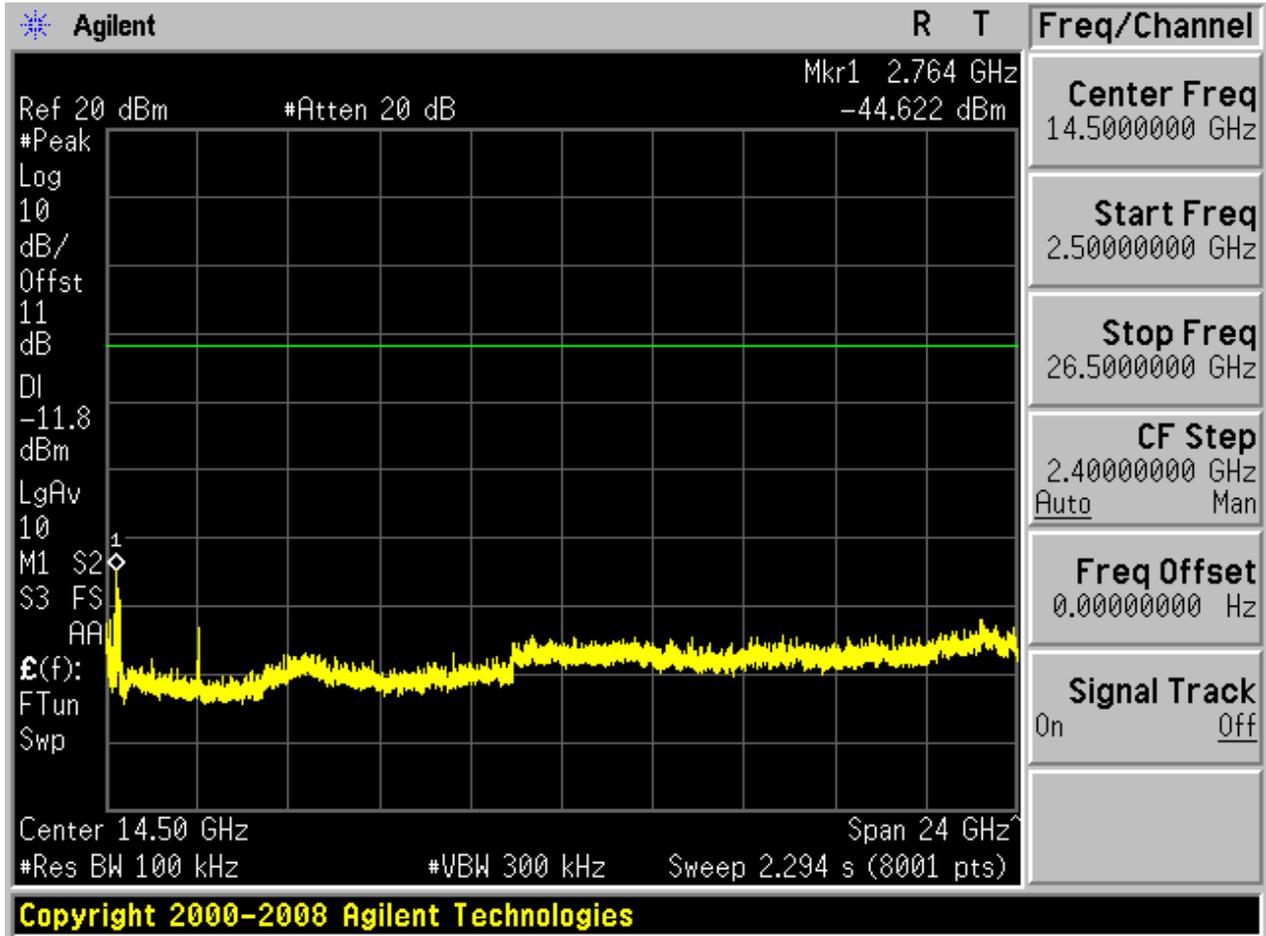






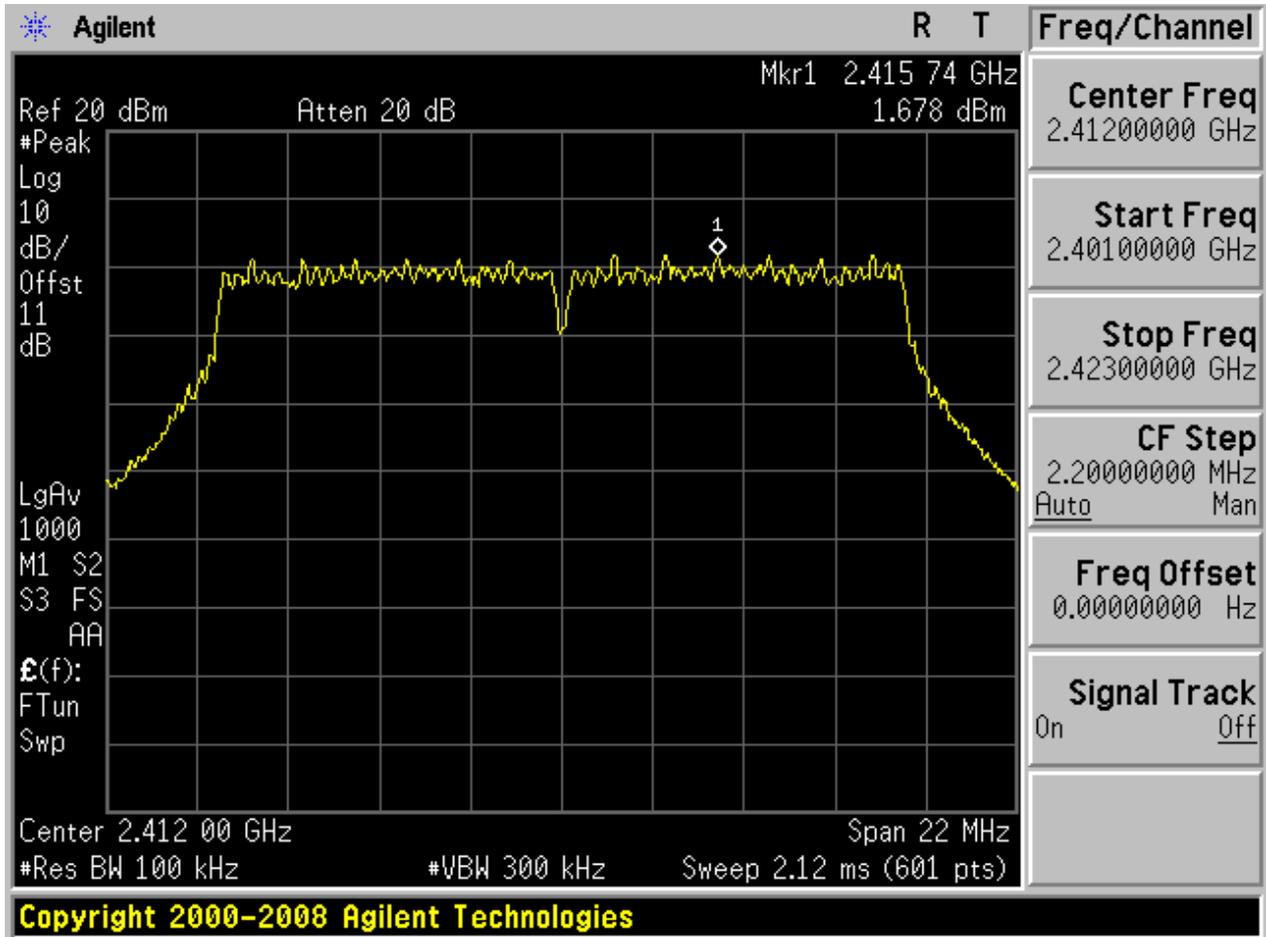






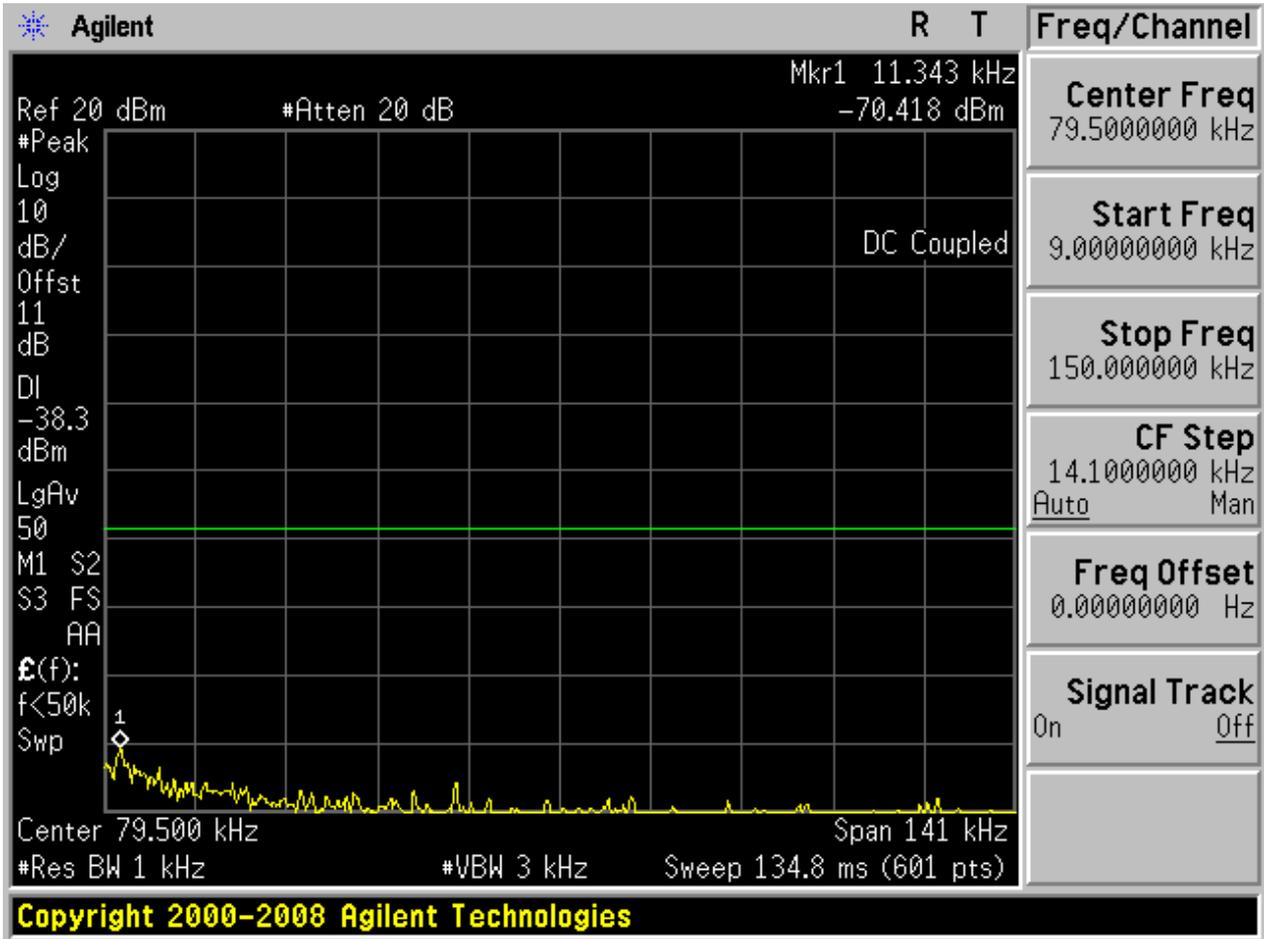
2.4 11G_L

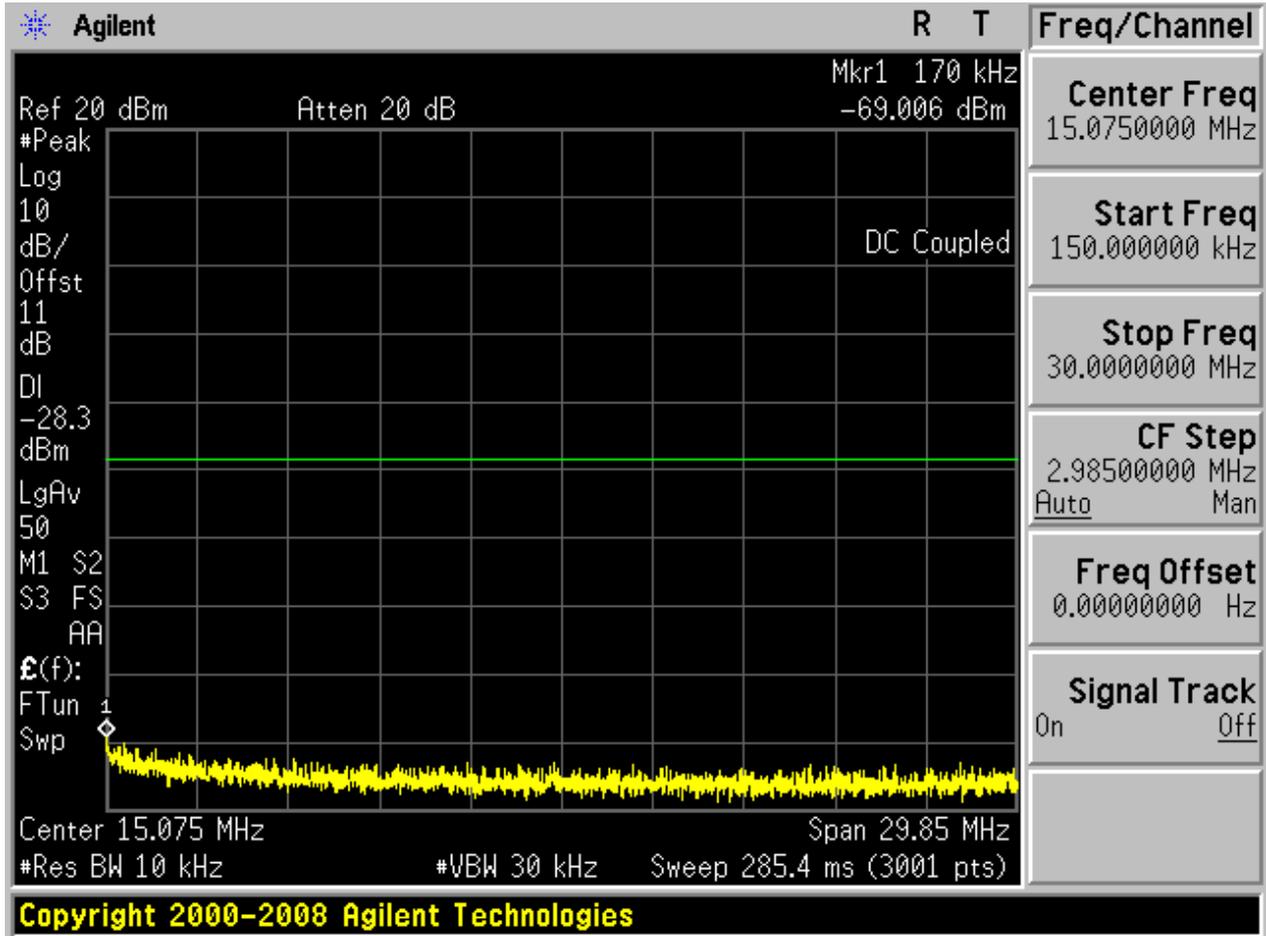
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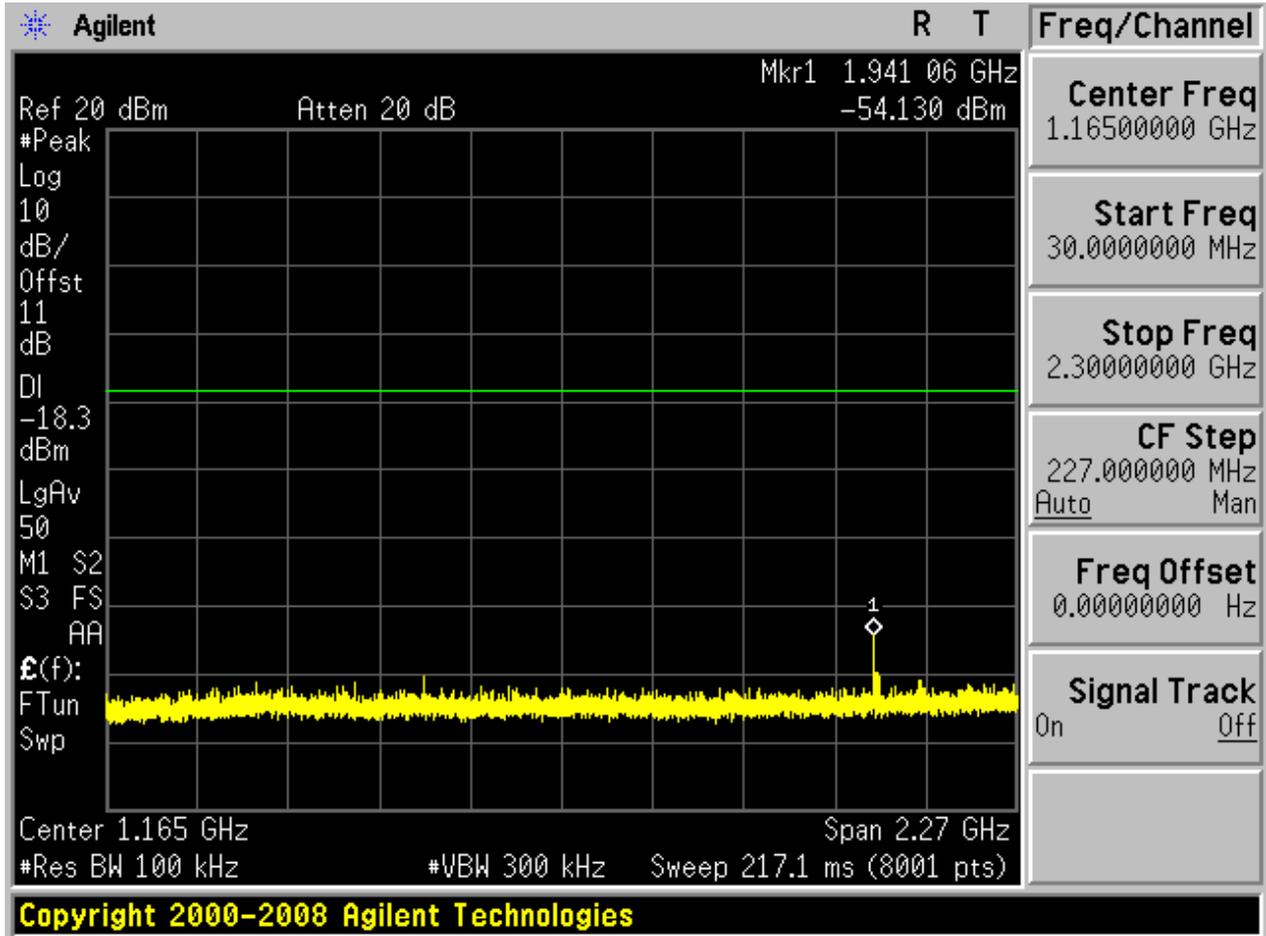


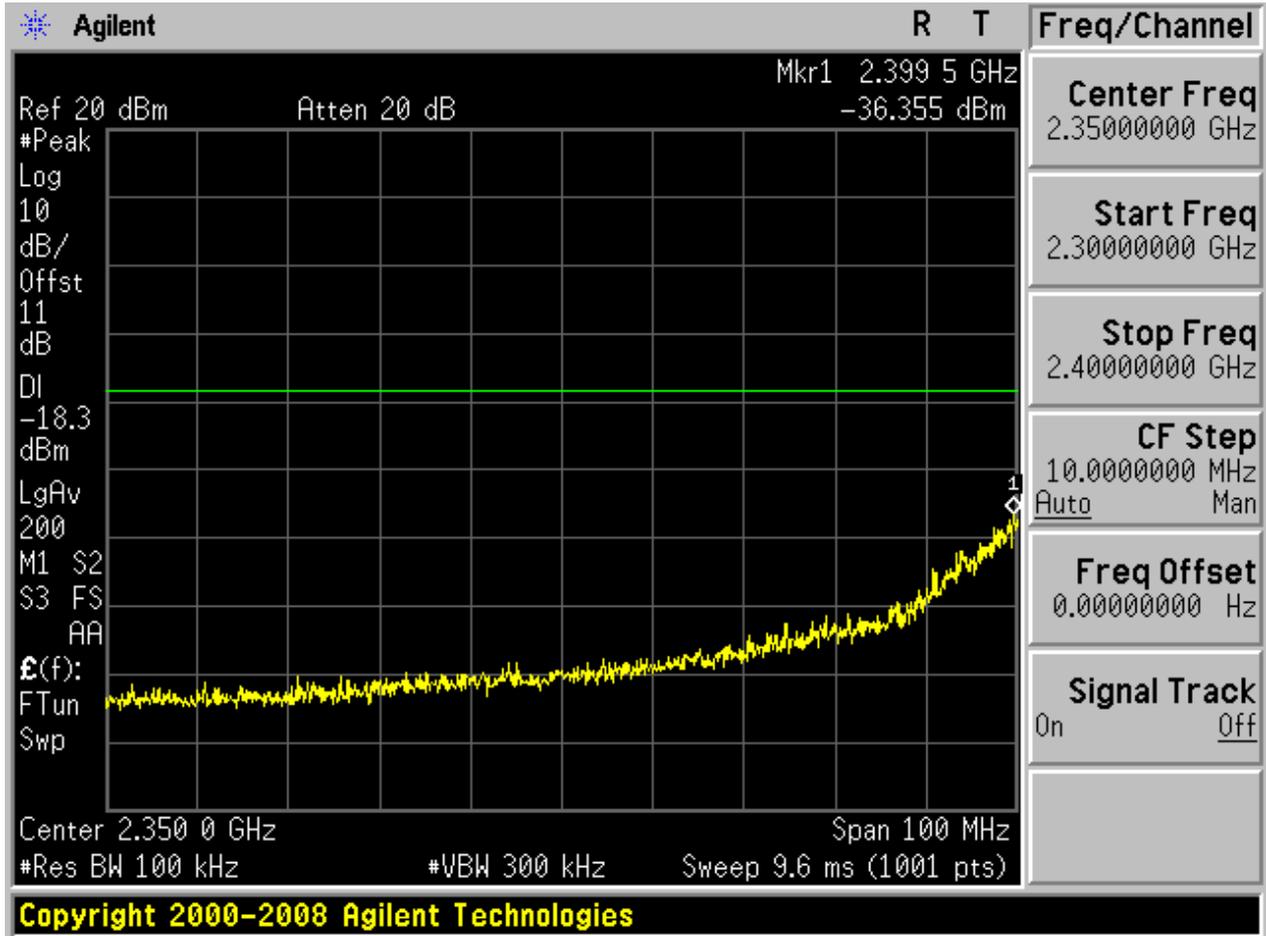


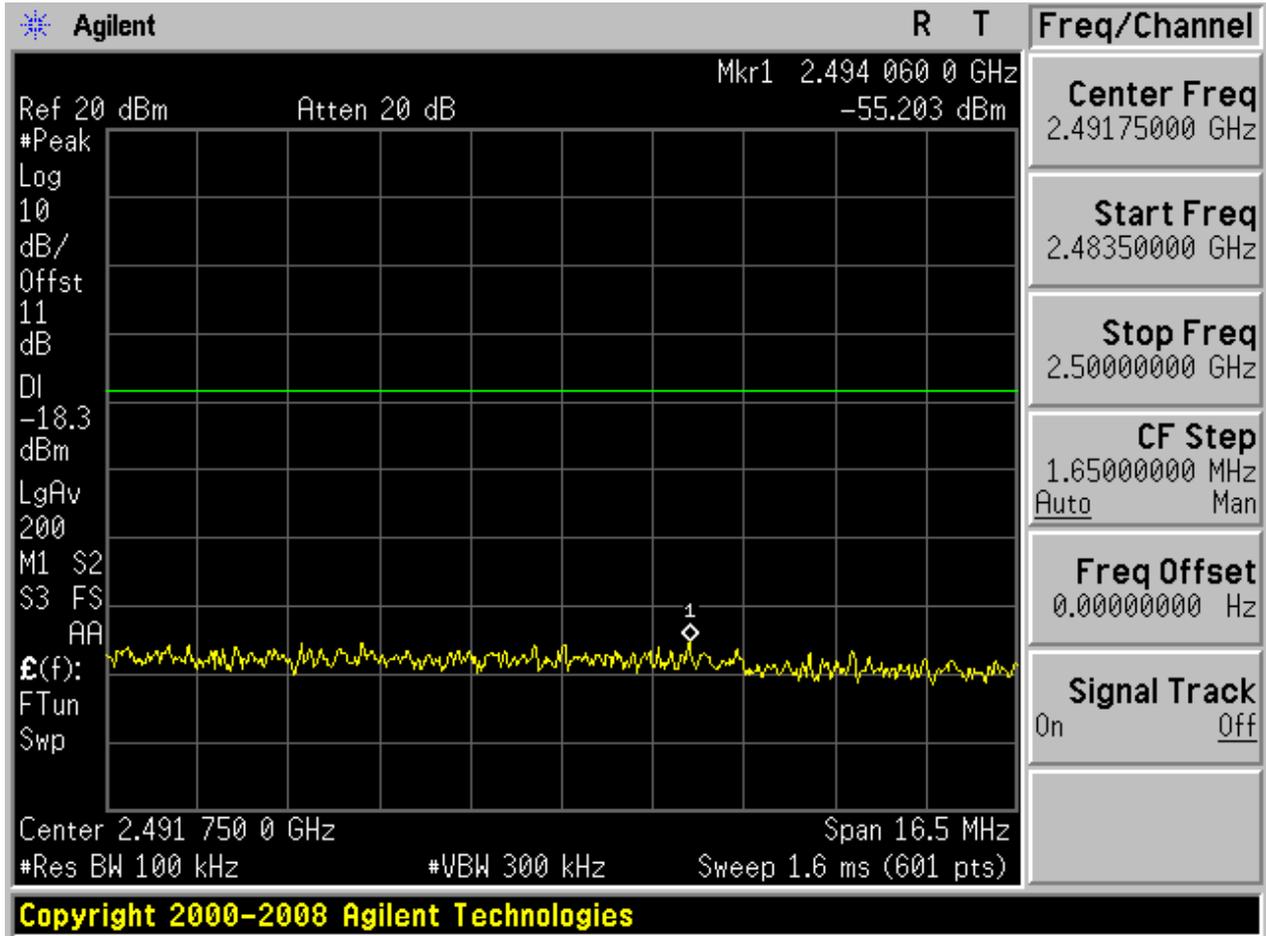
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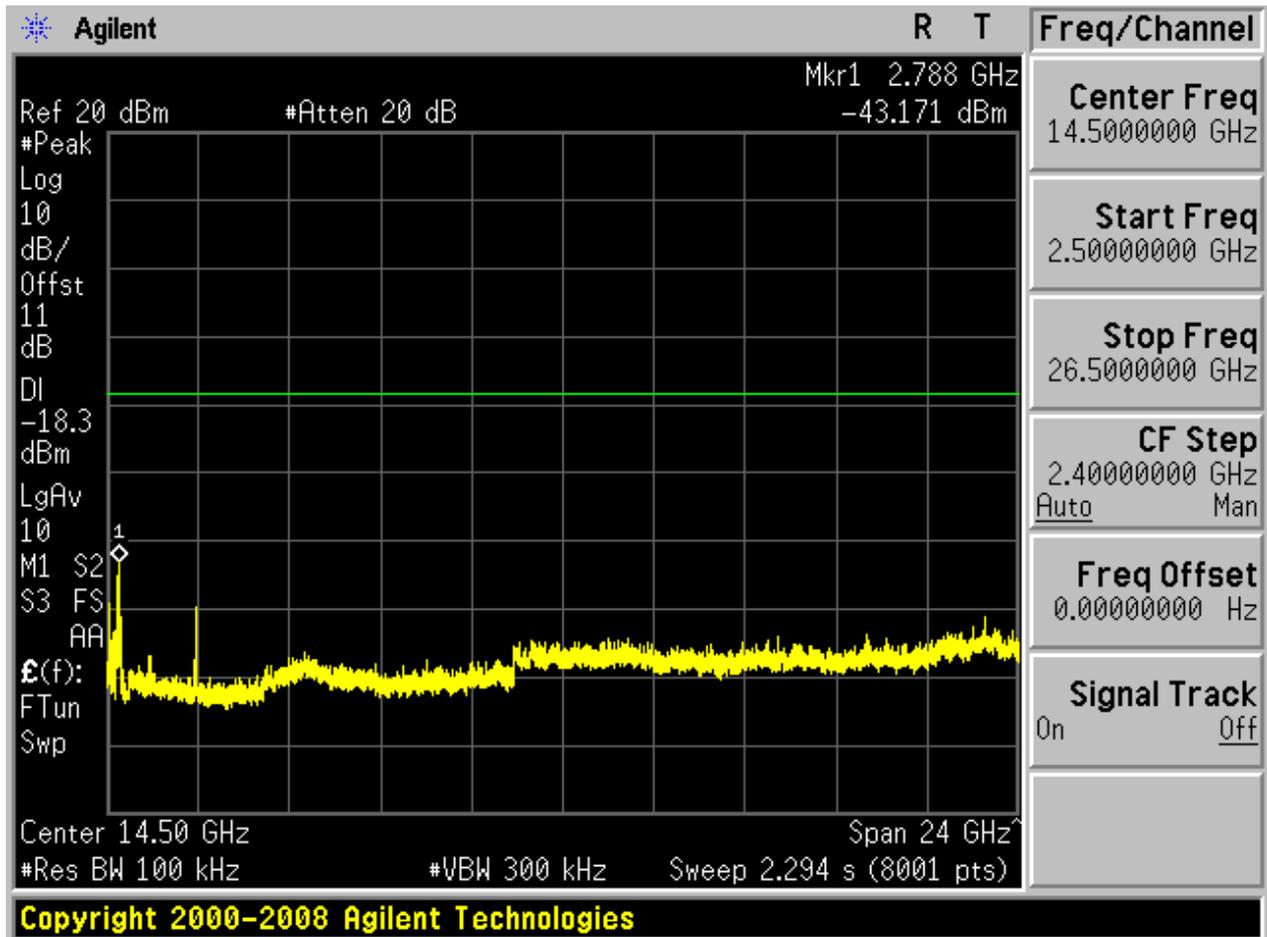






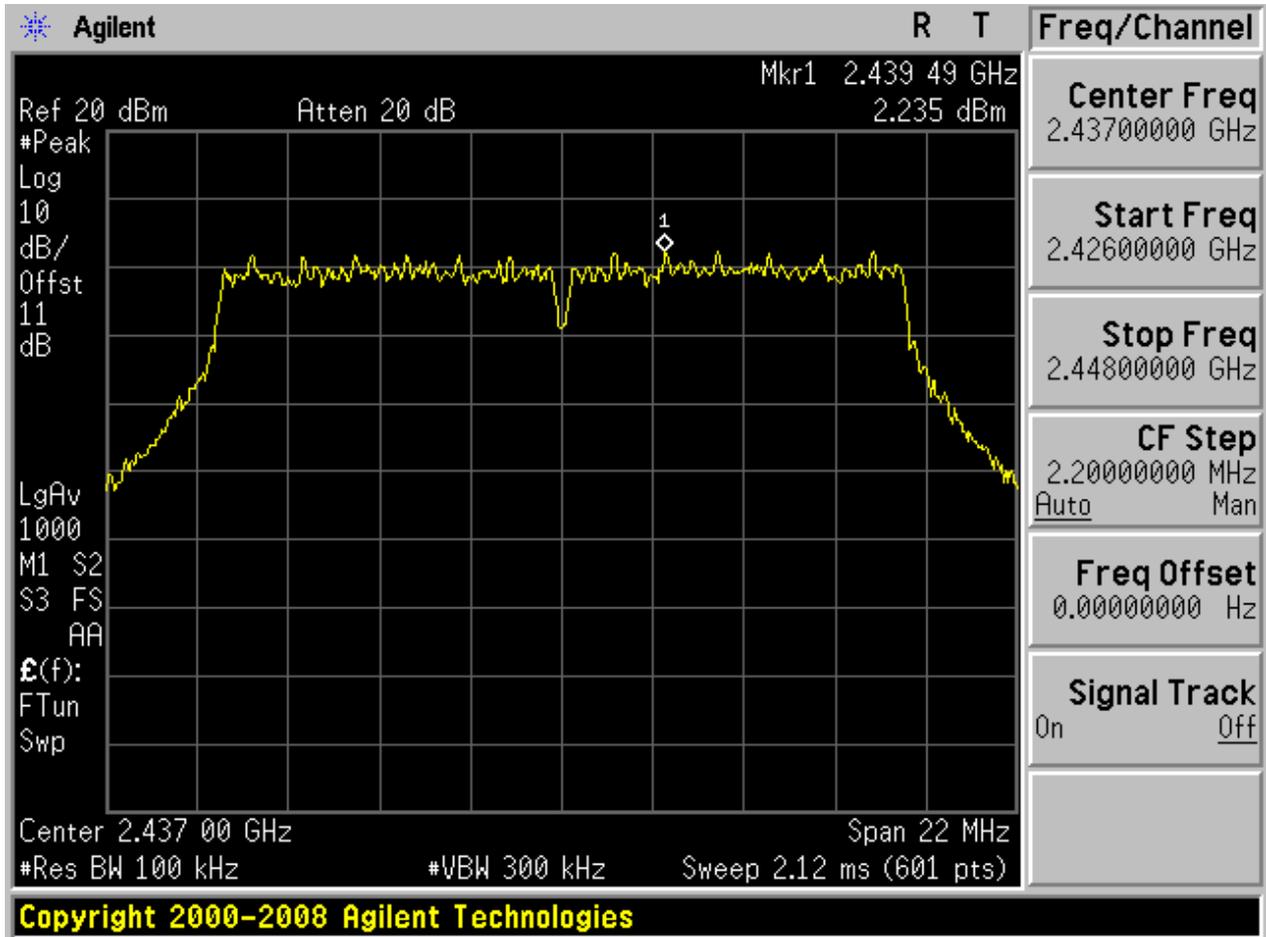






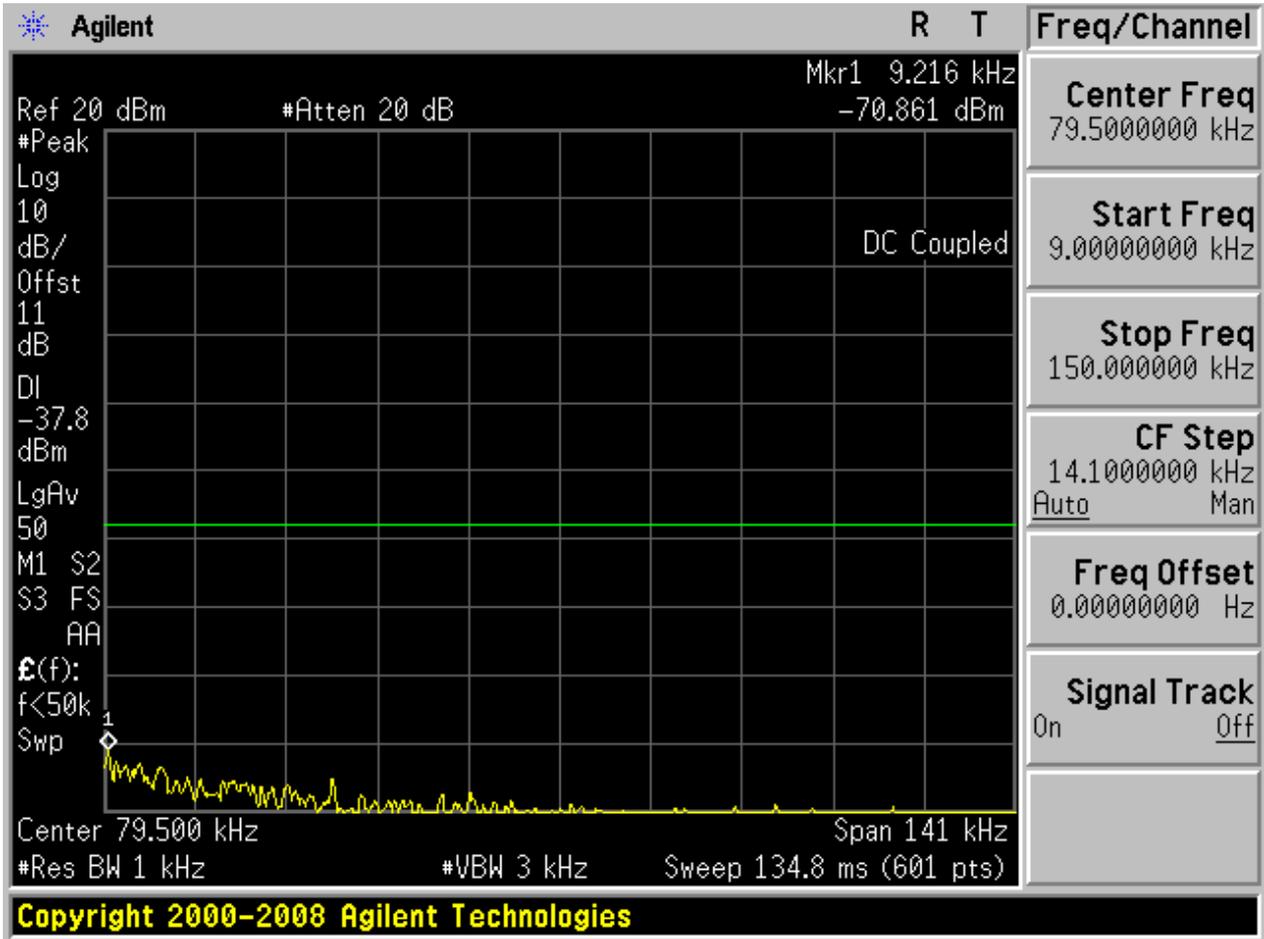
2.5 11G_M

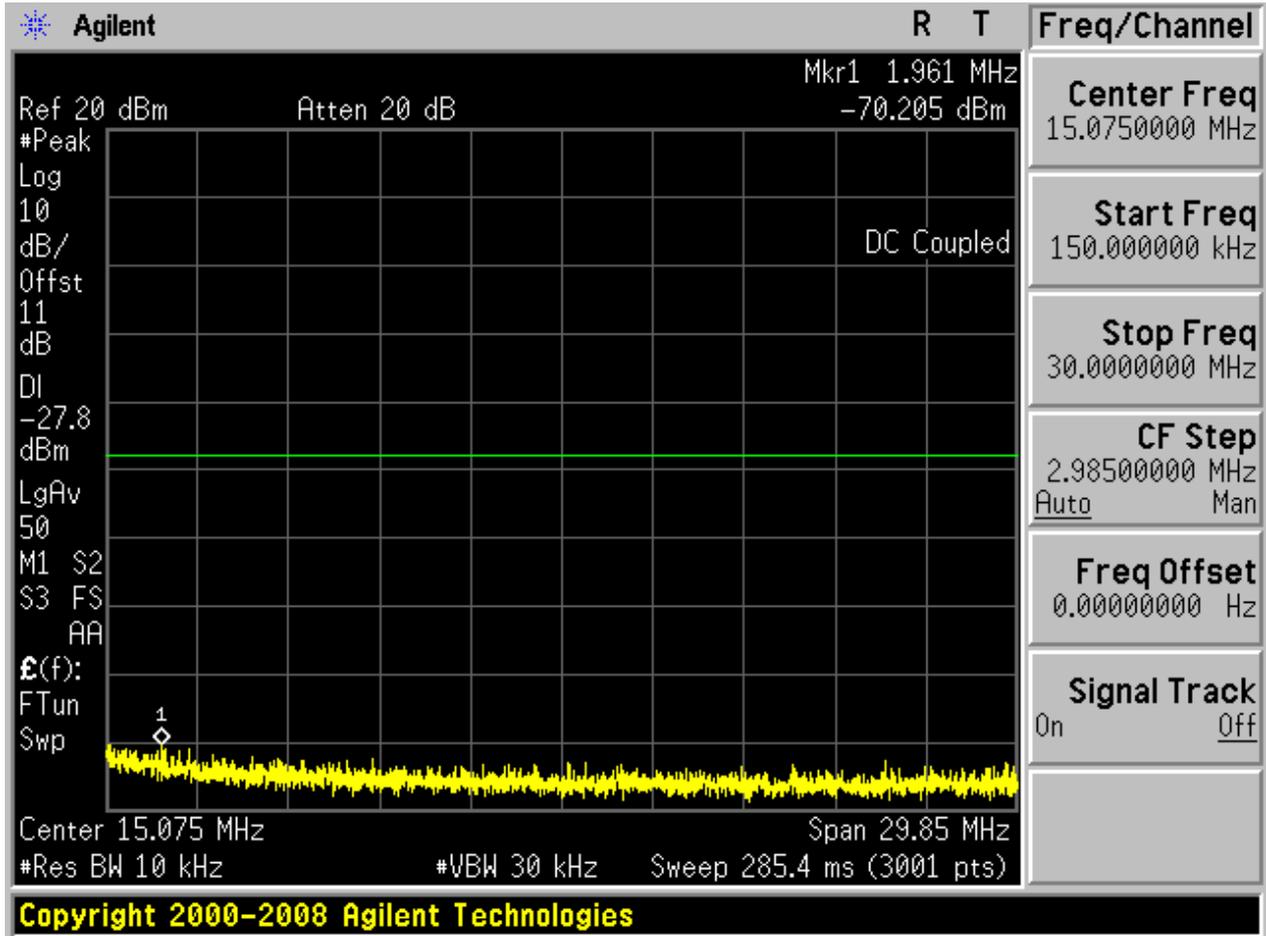
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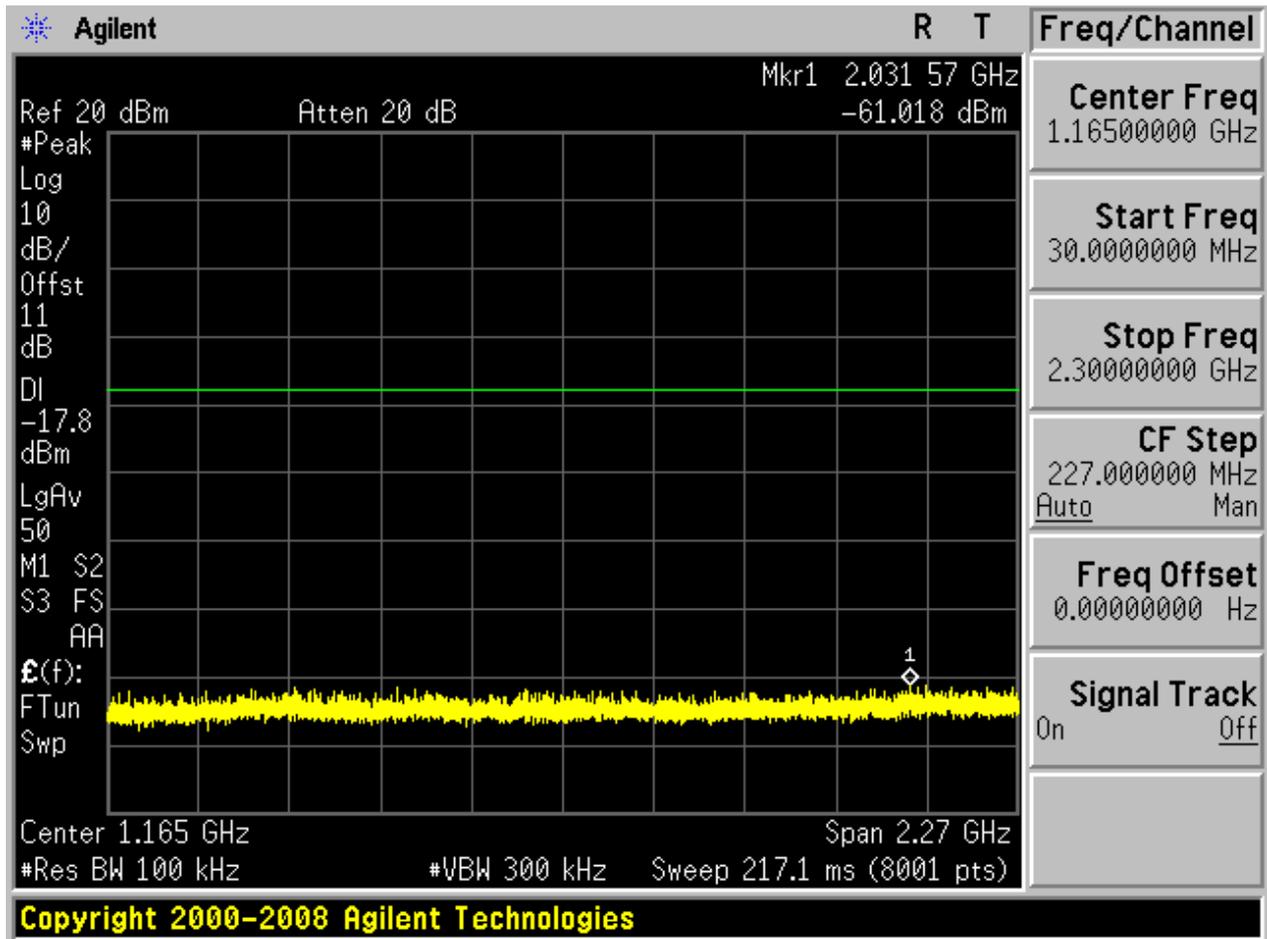


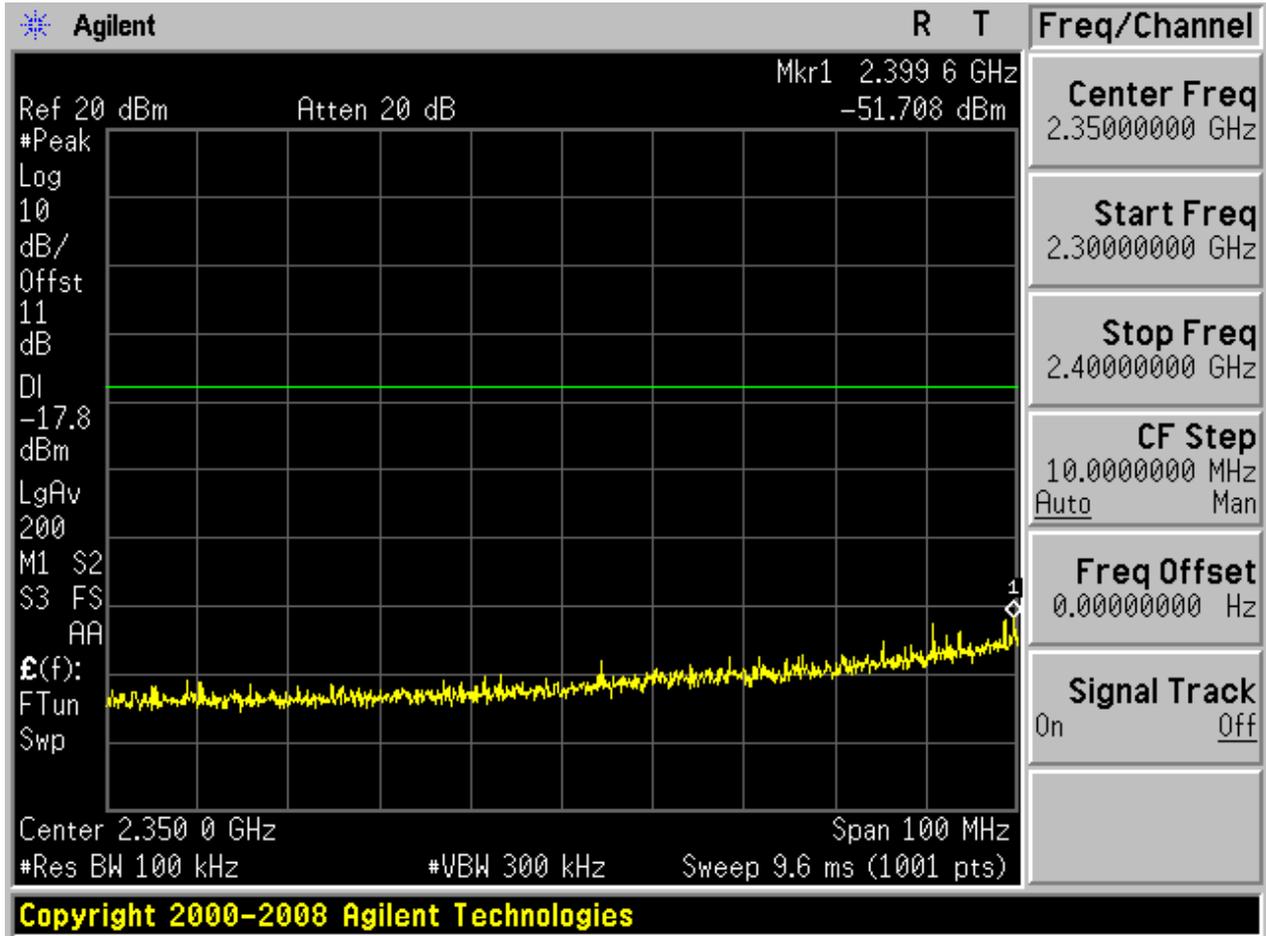


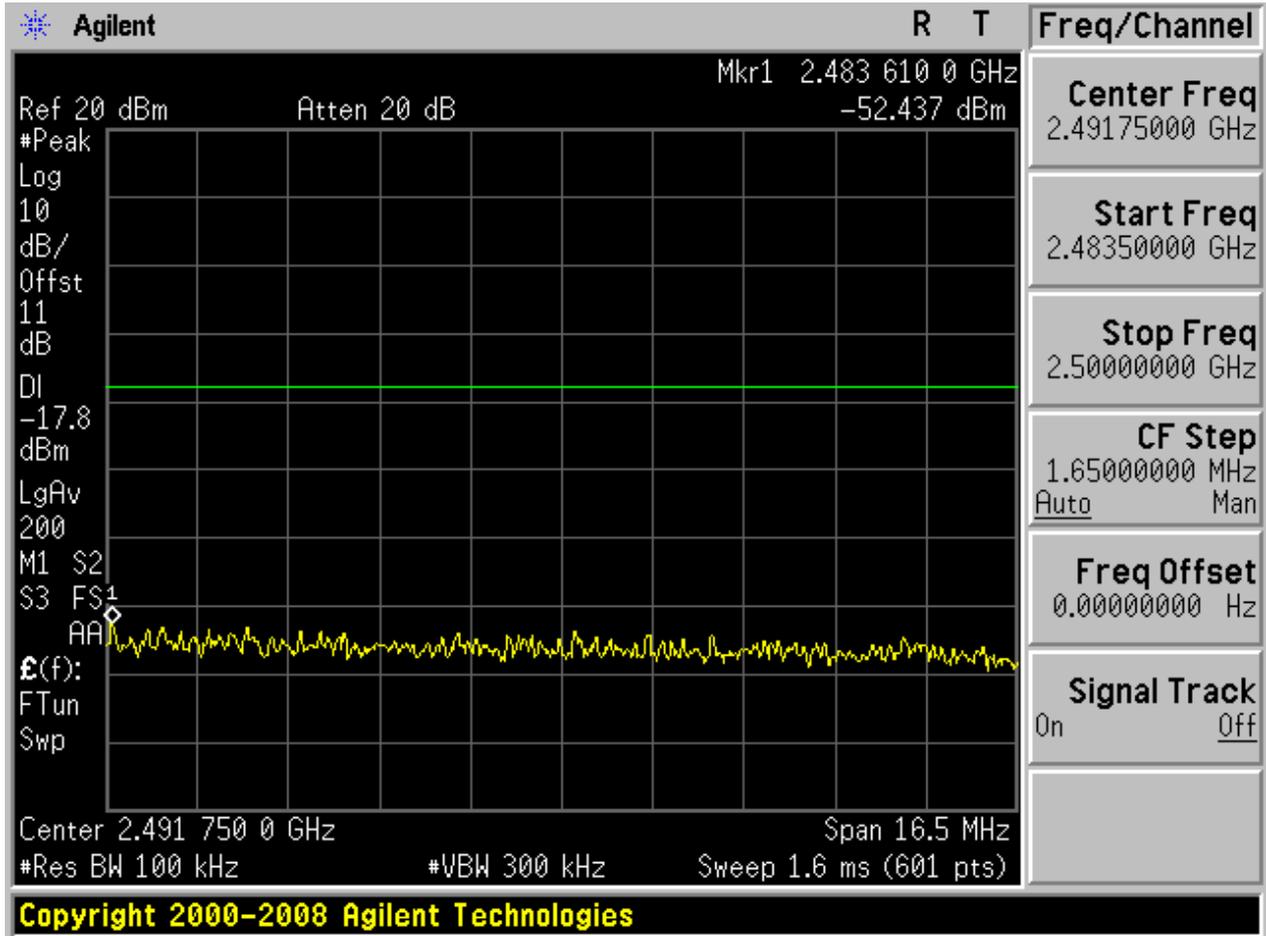
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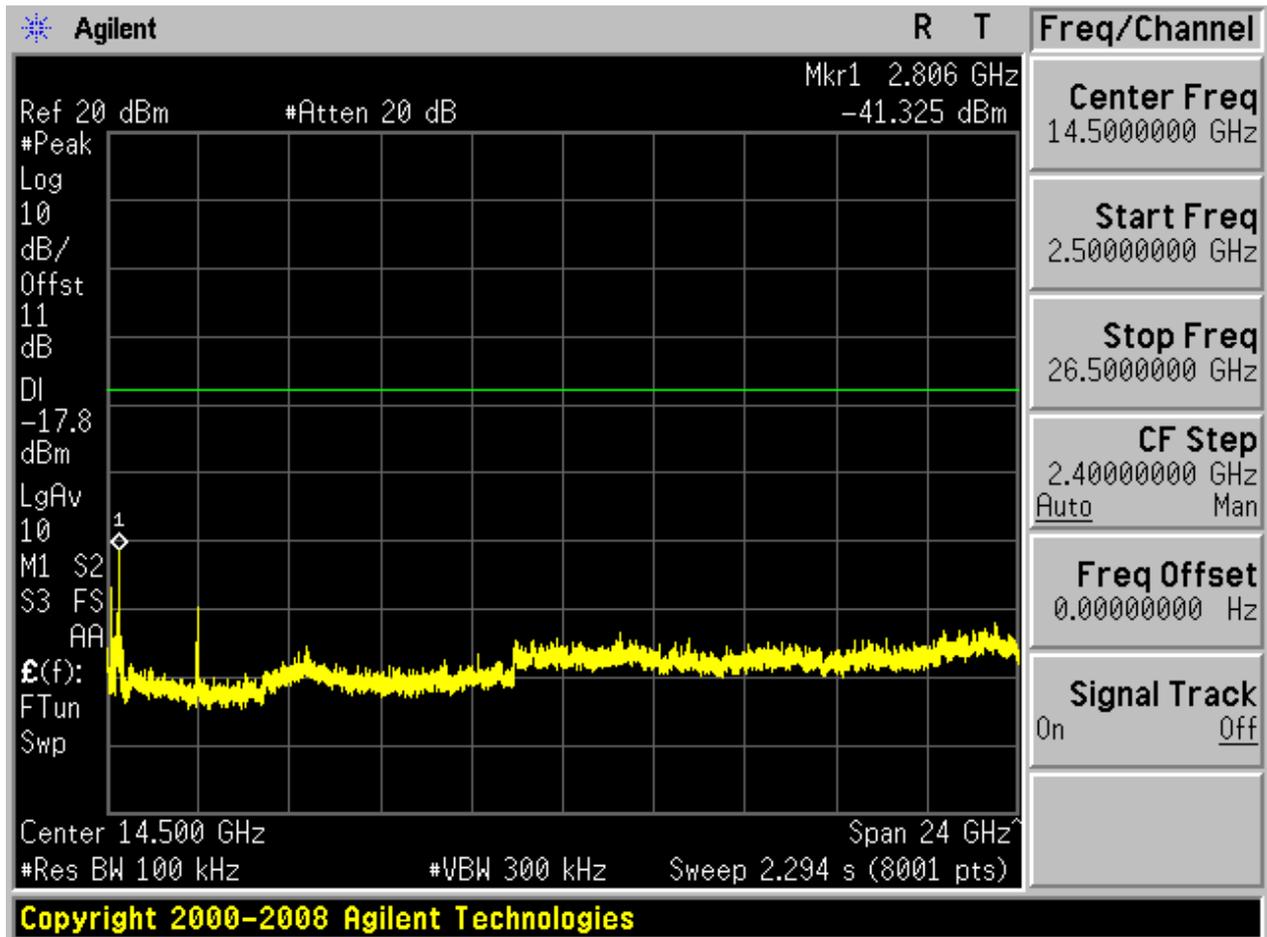






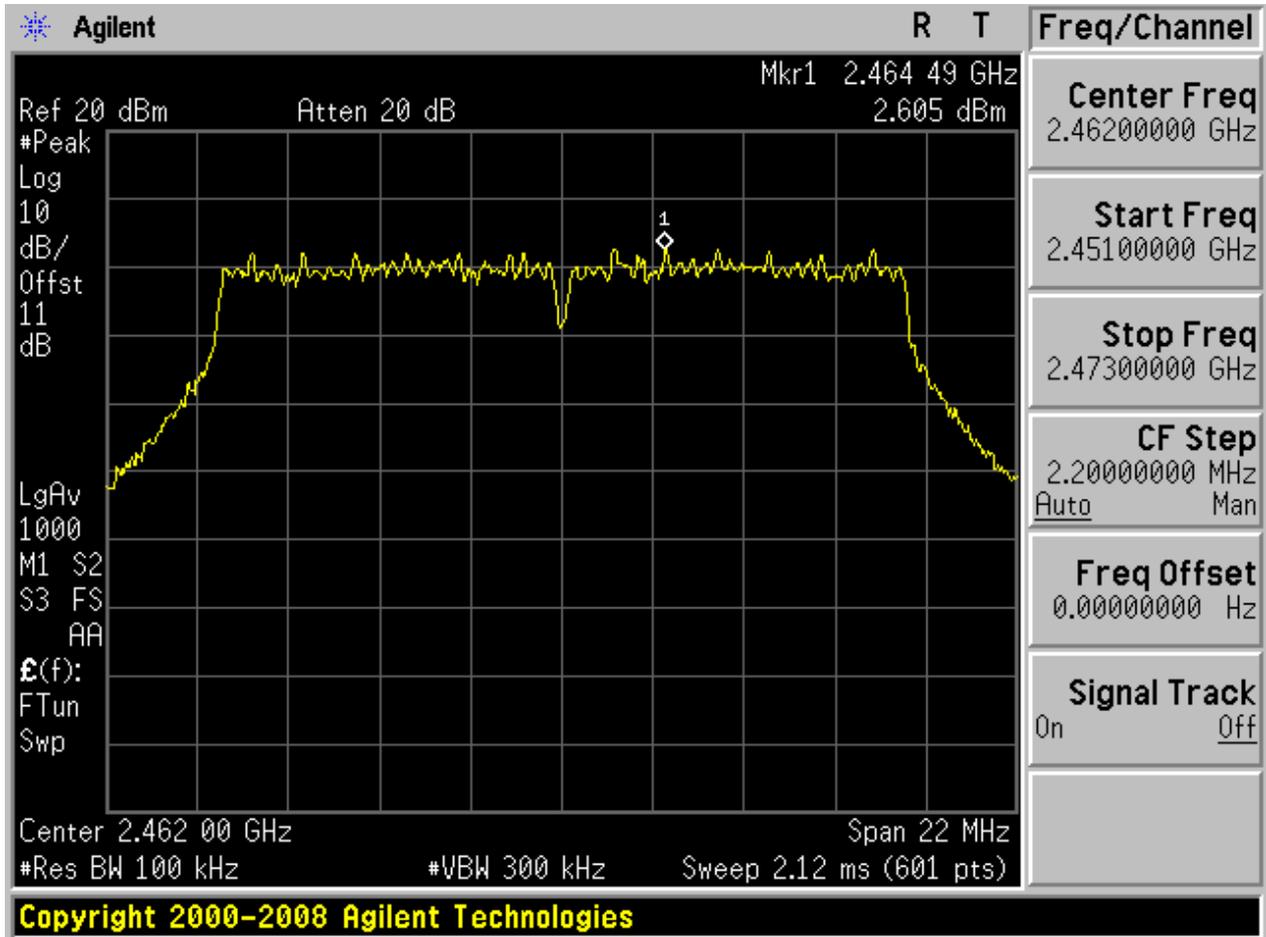






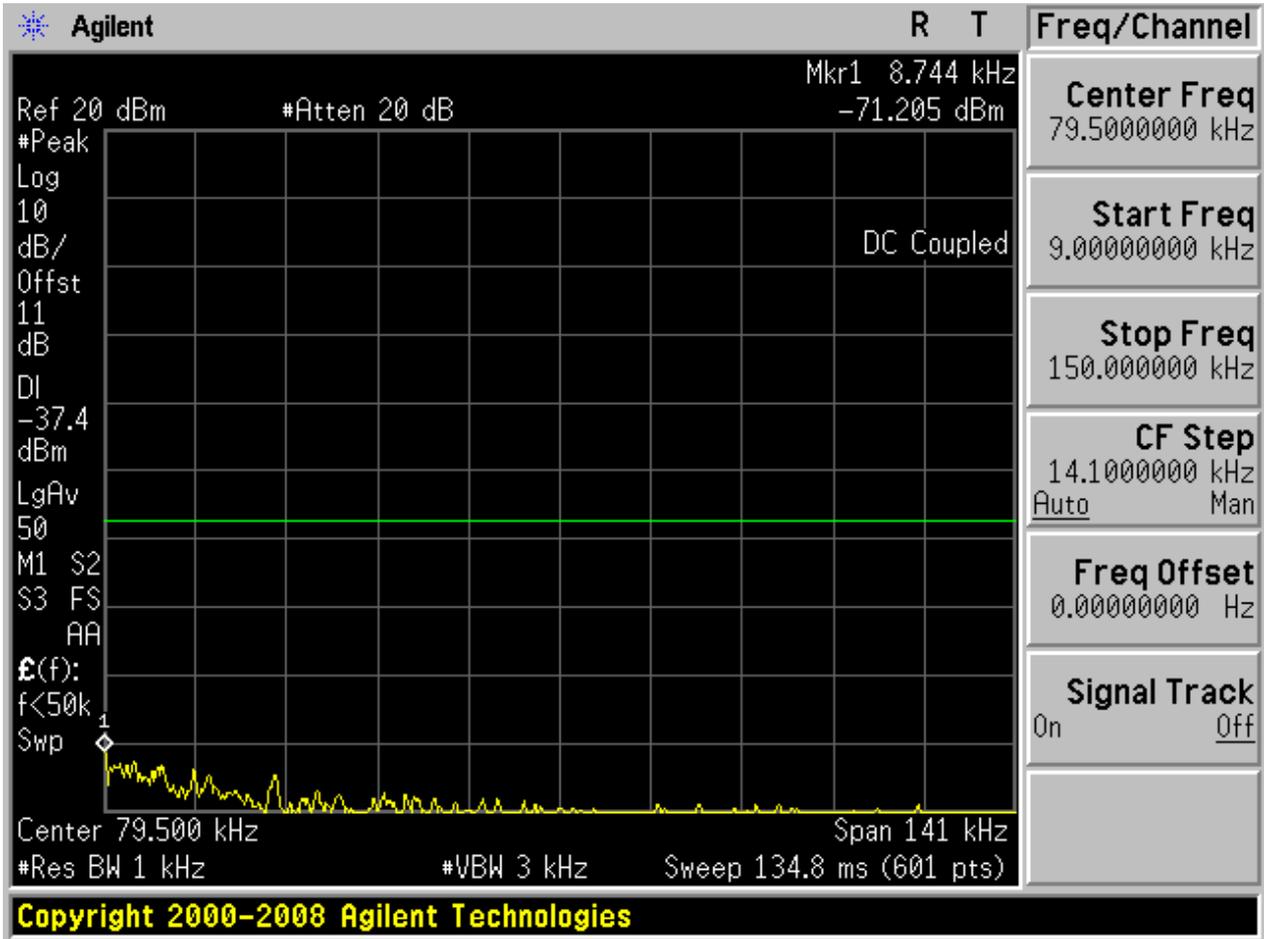
2.6 11G_H

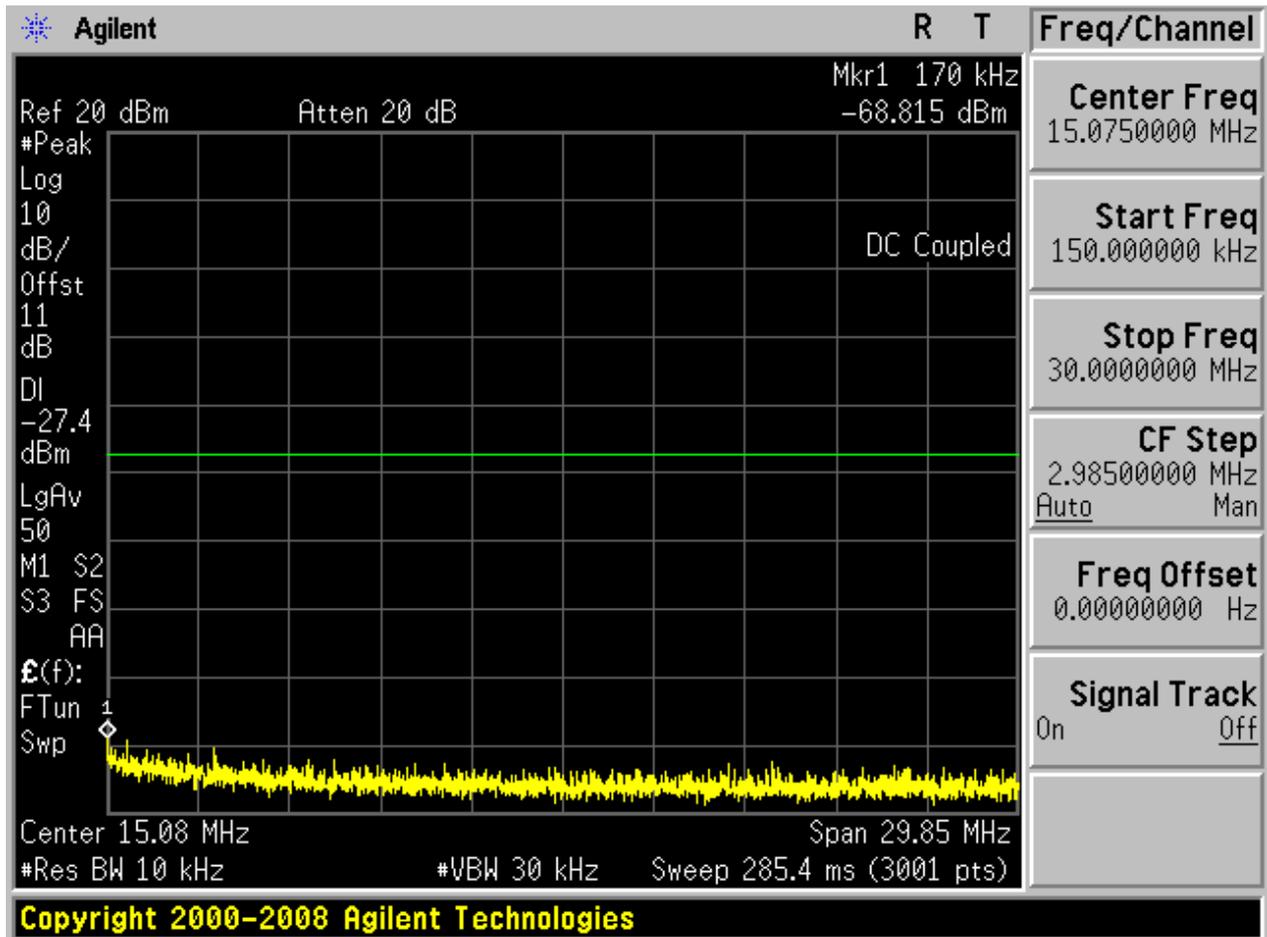
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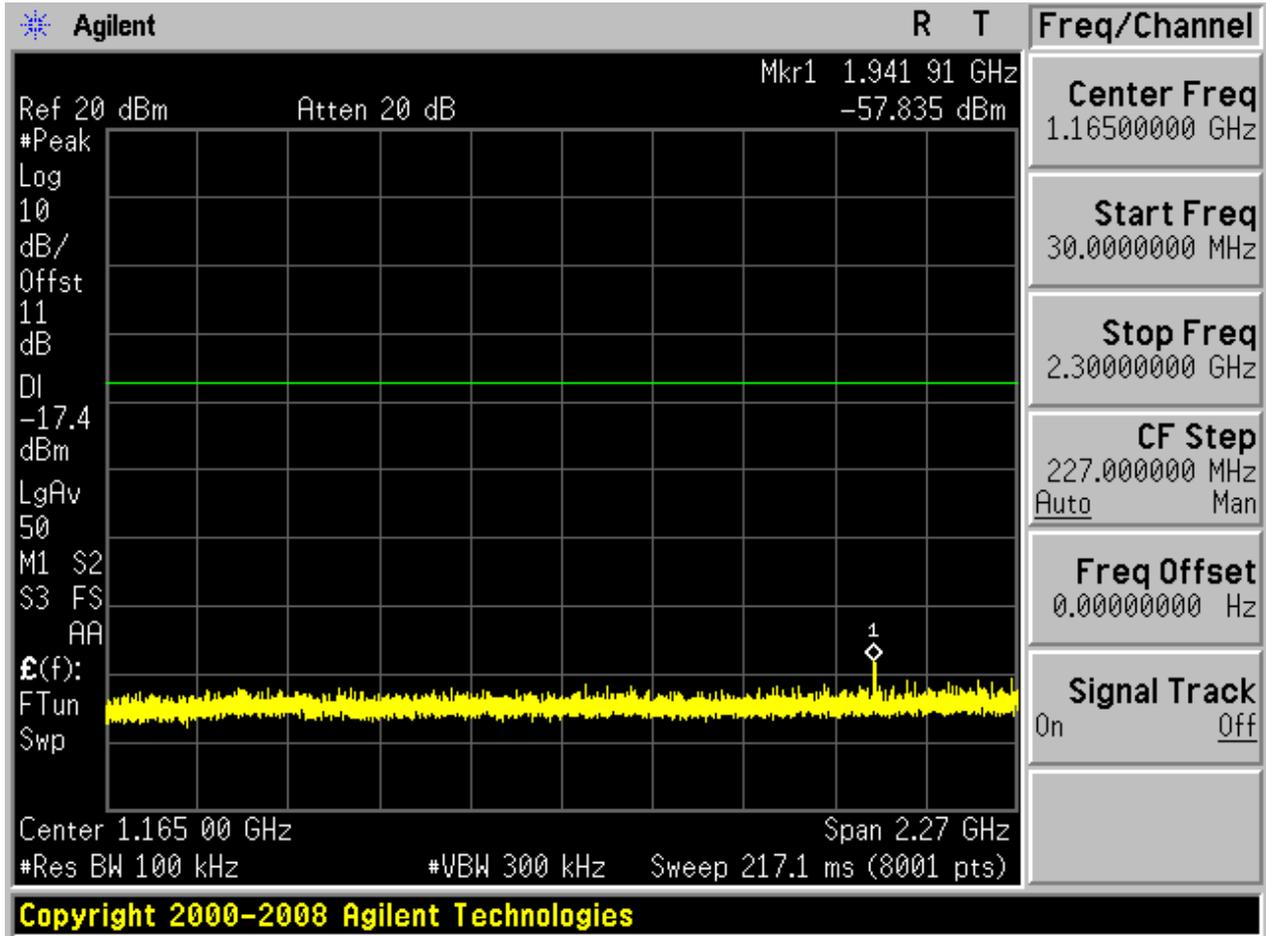


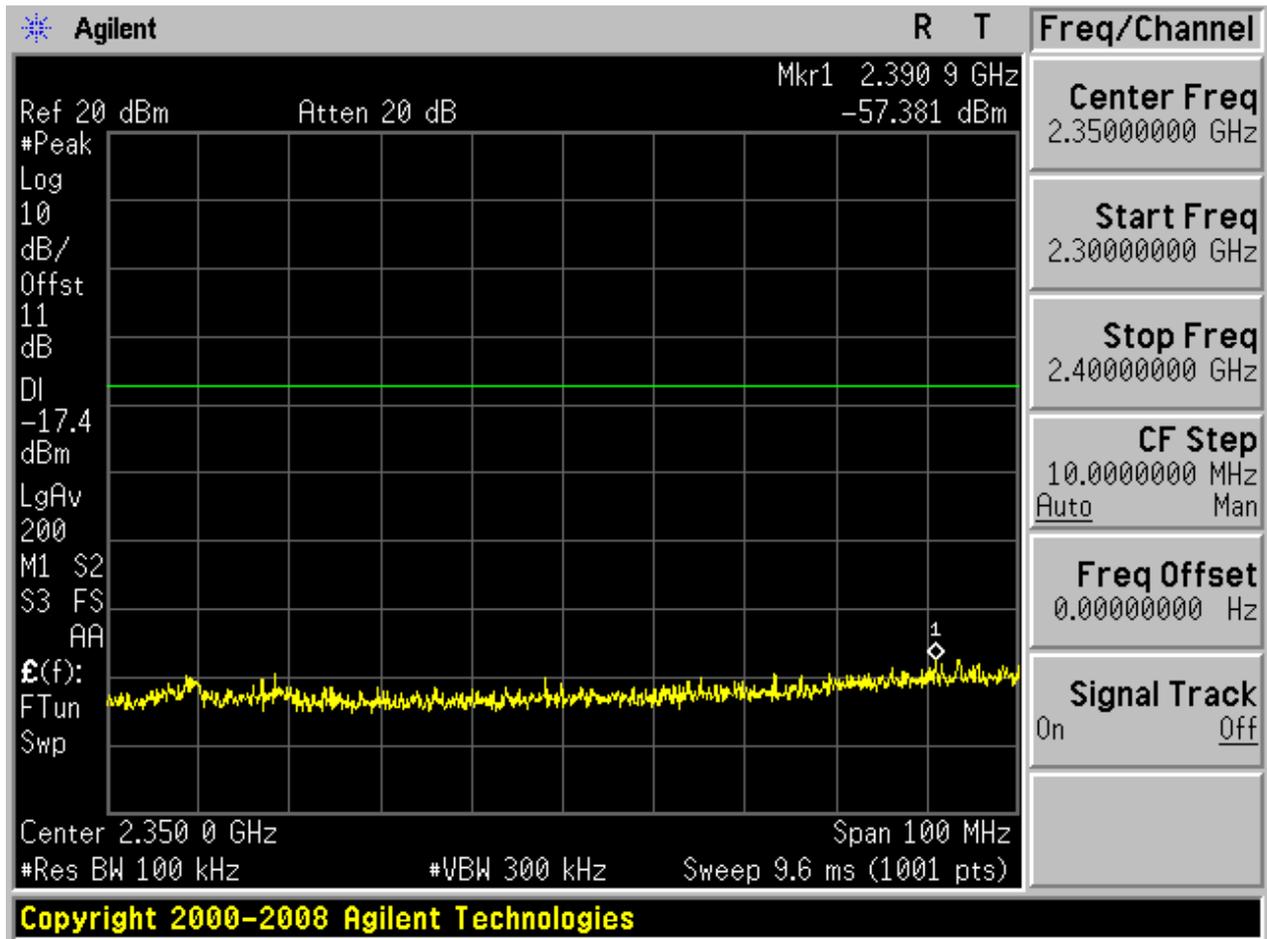


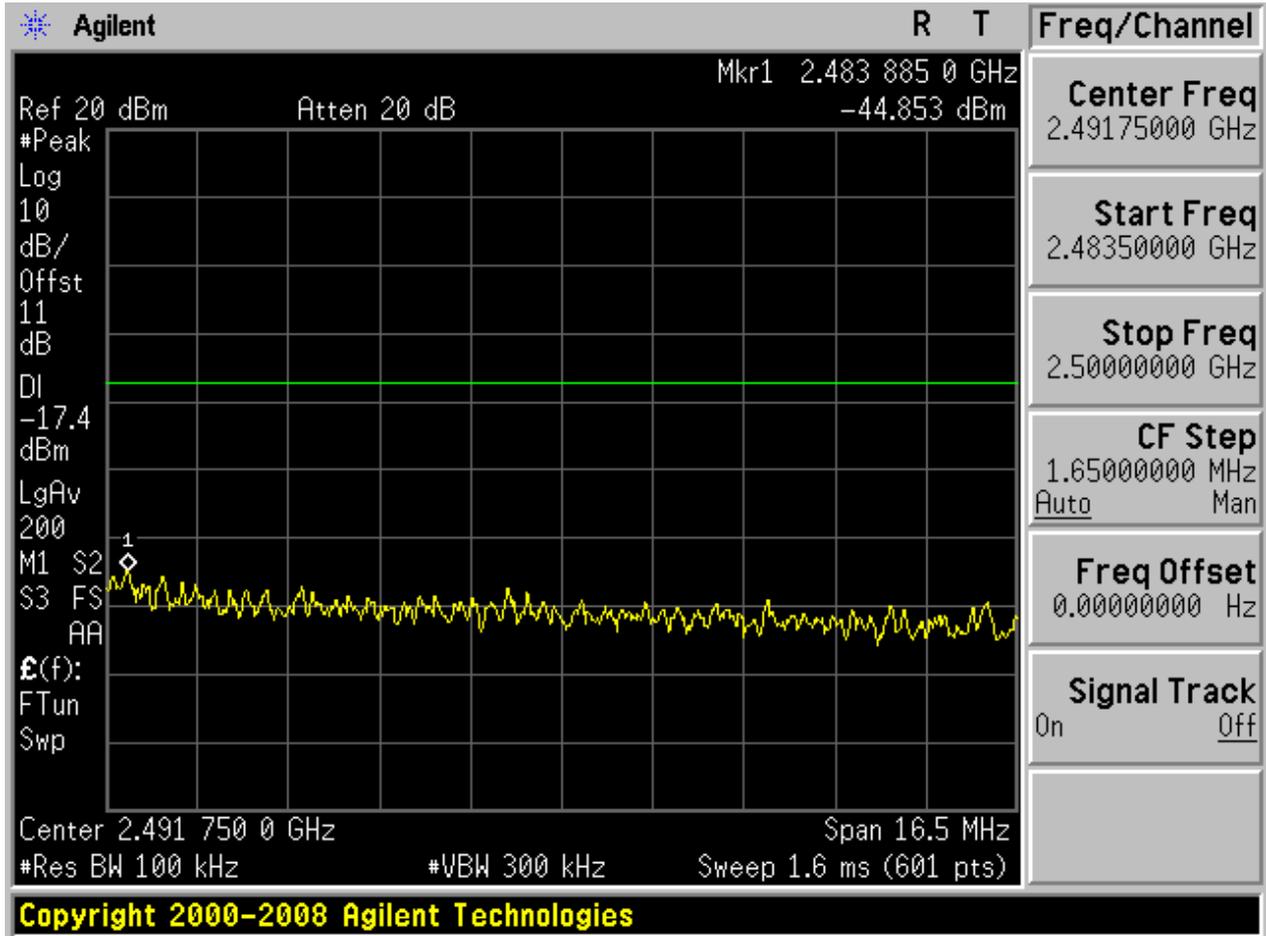
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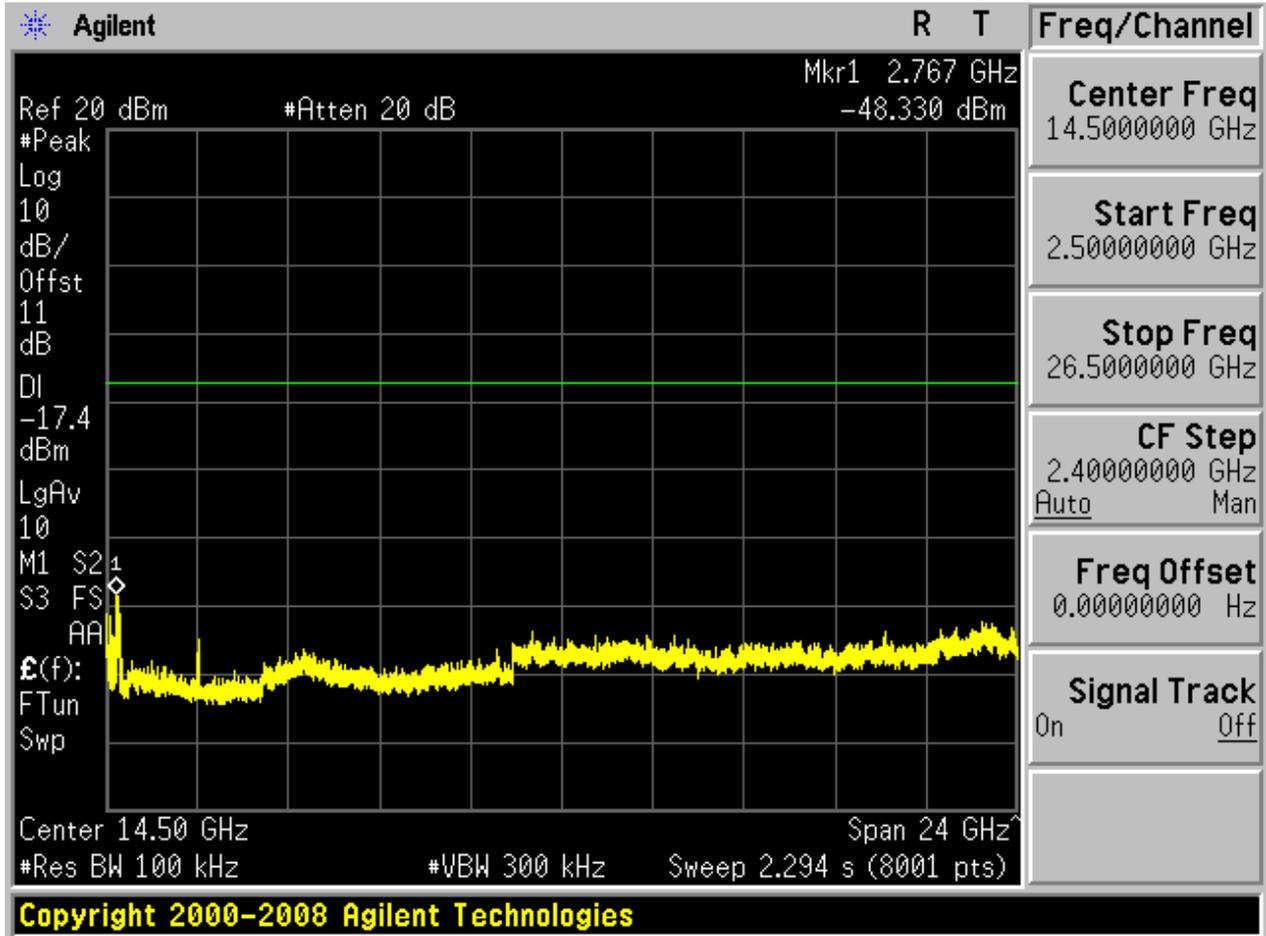






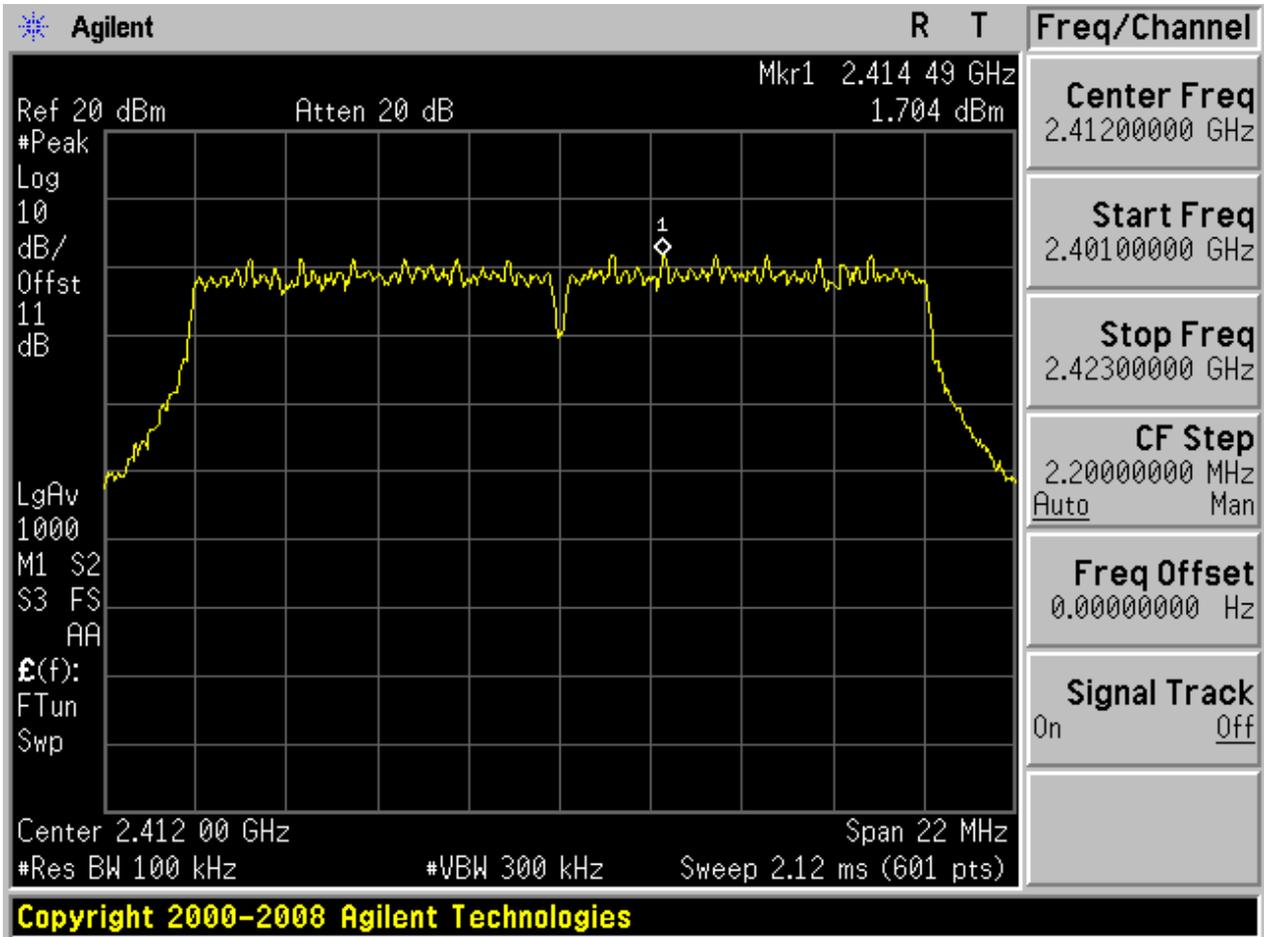






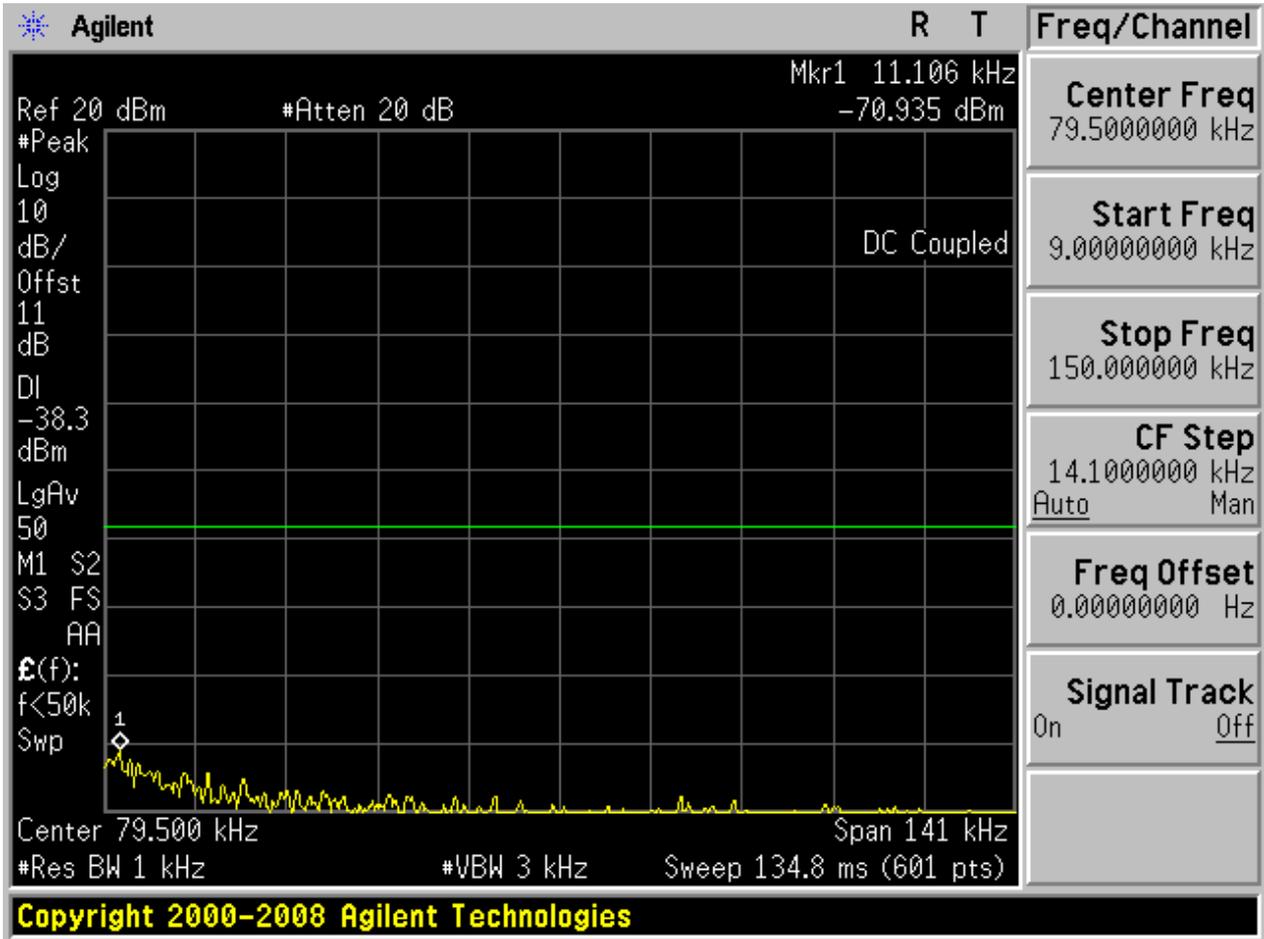
2.7 11N20_L

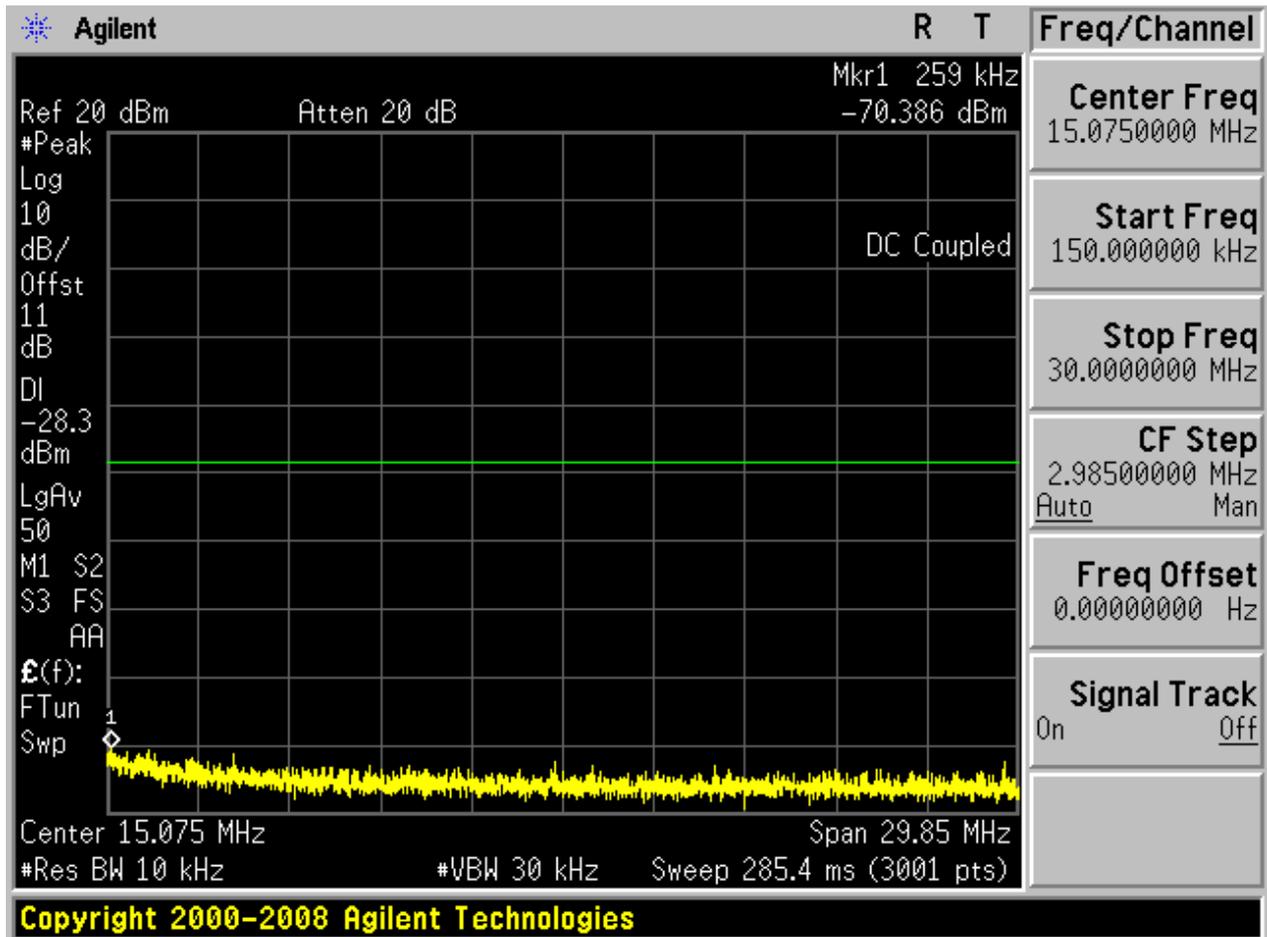
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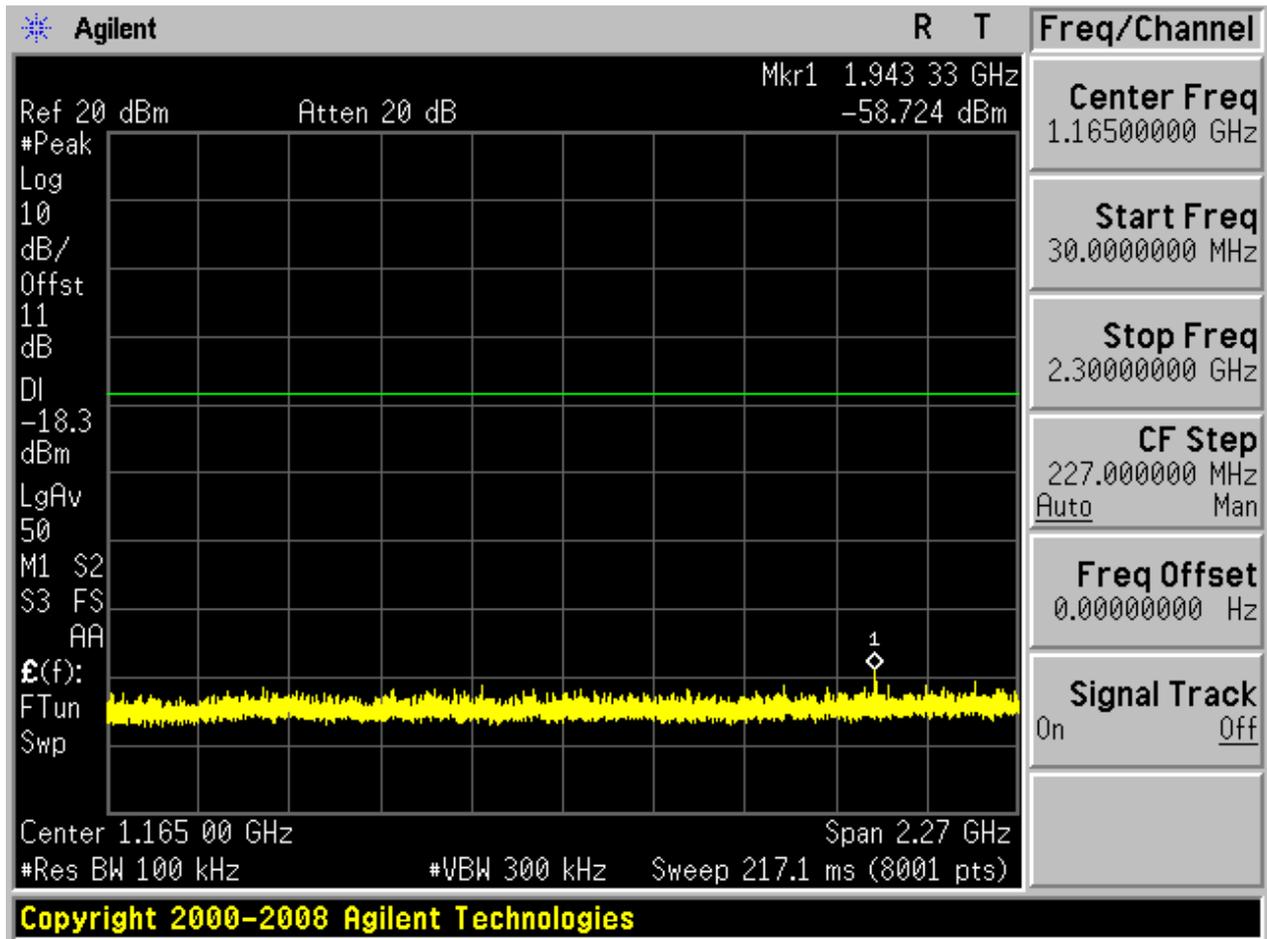


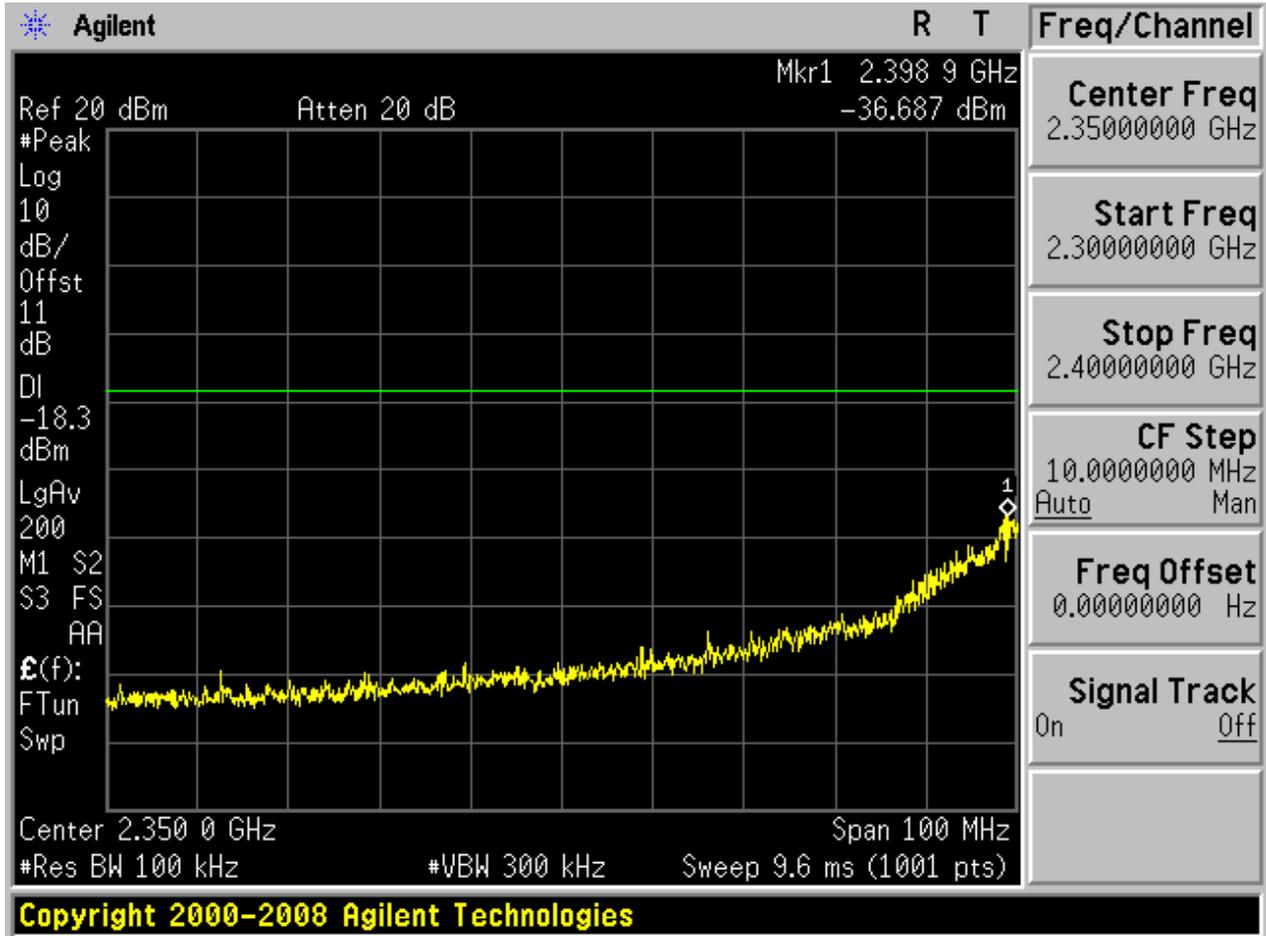


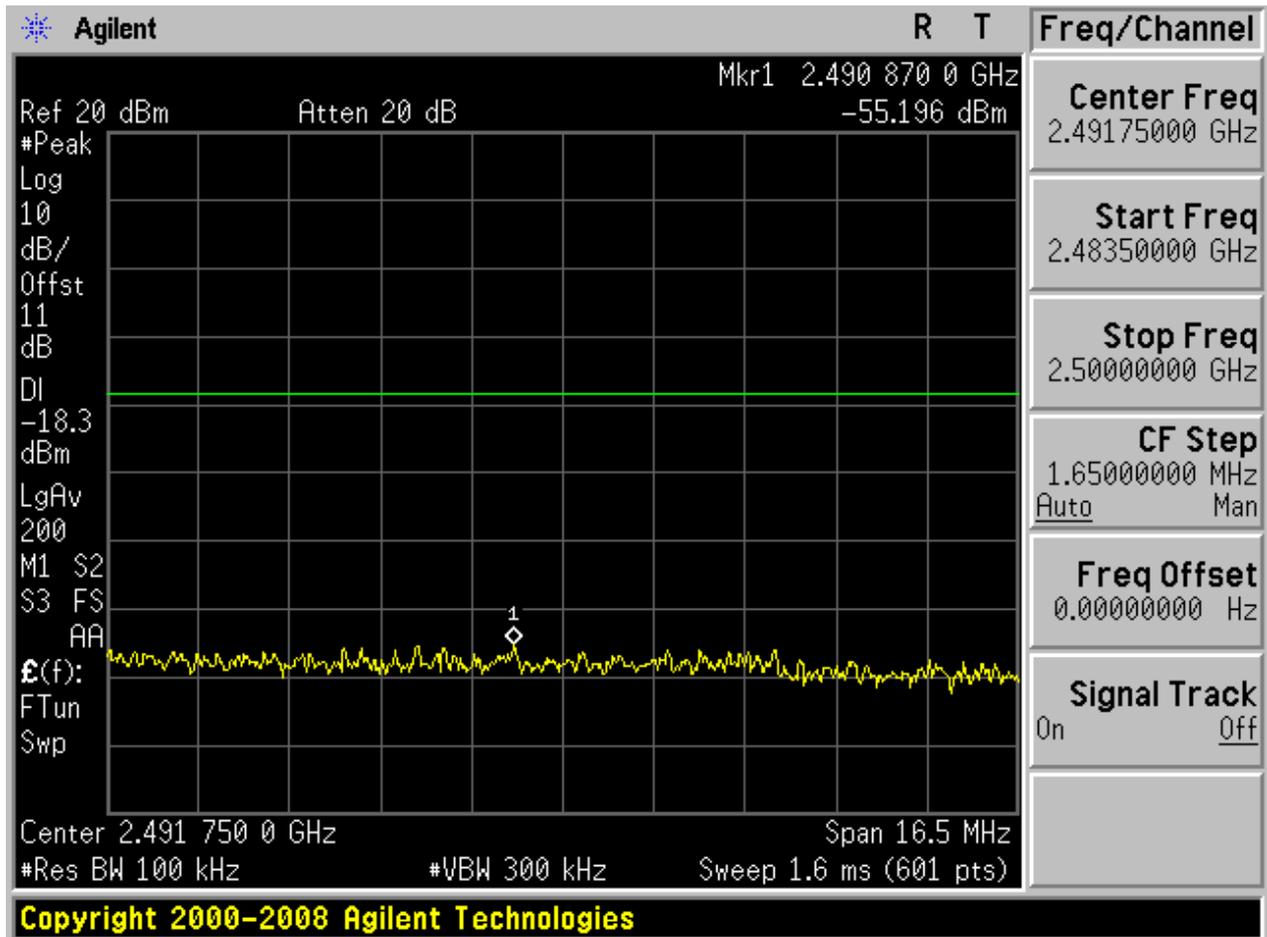
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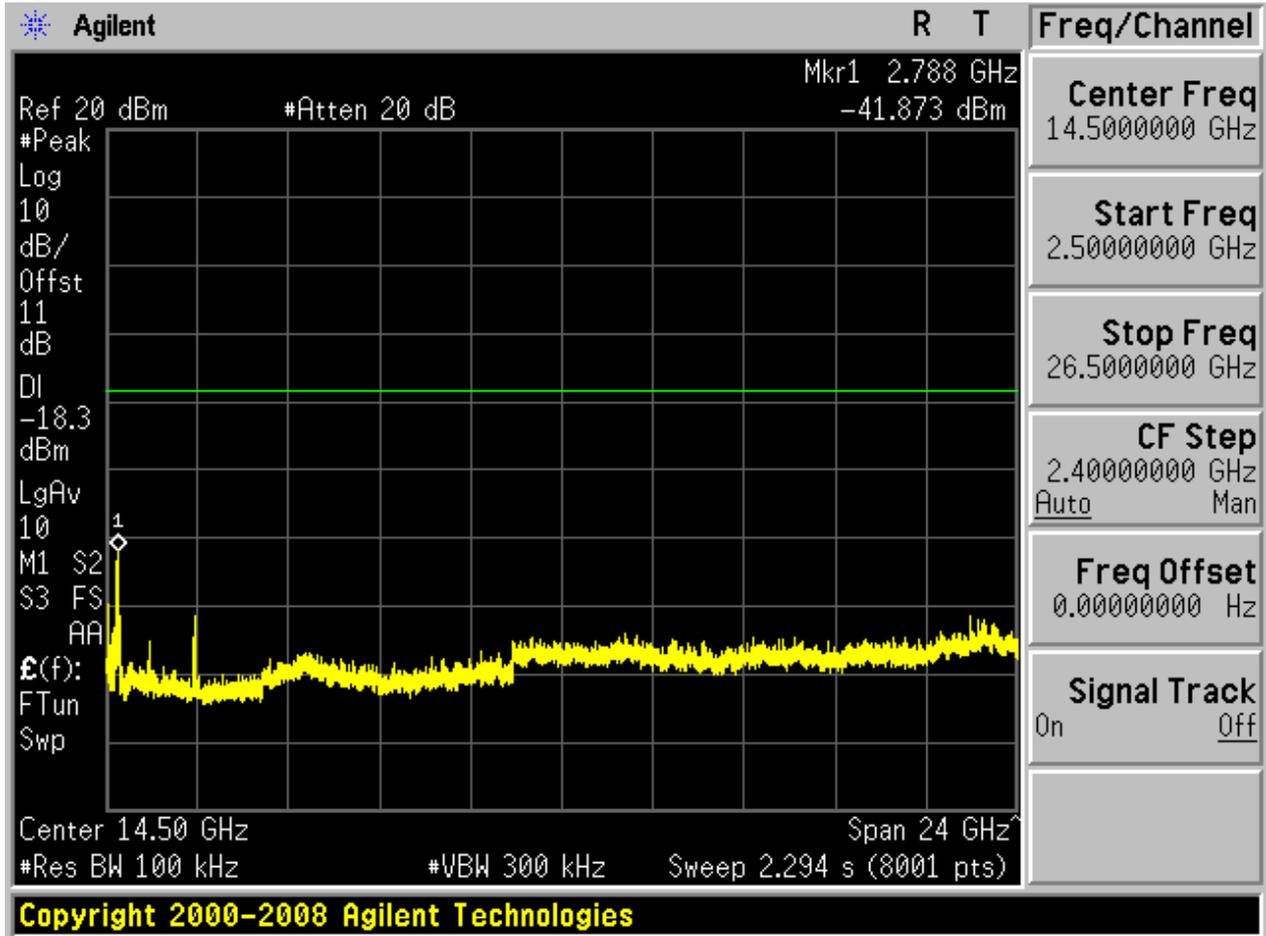






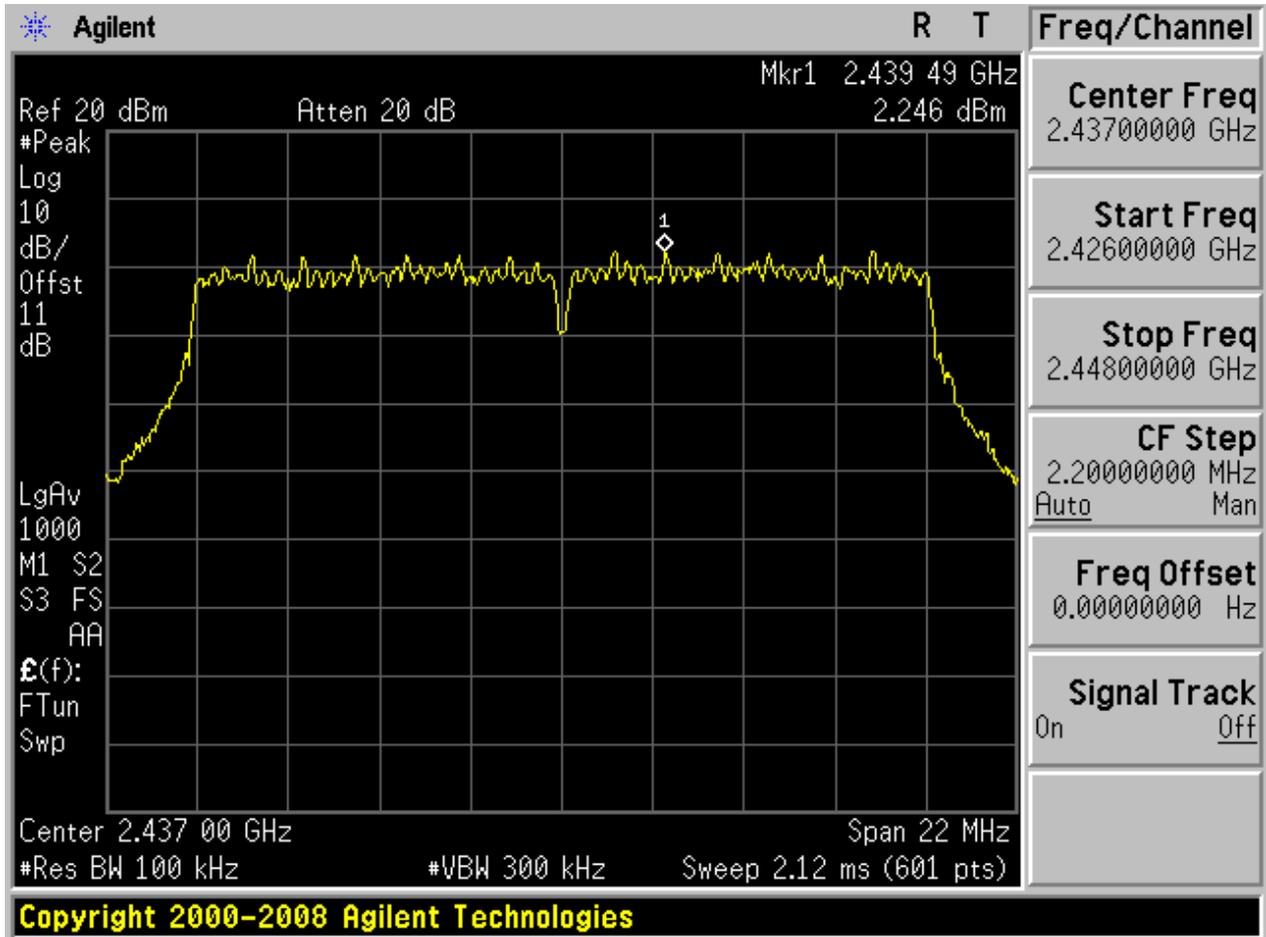




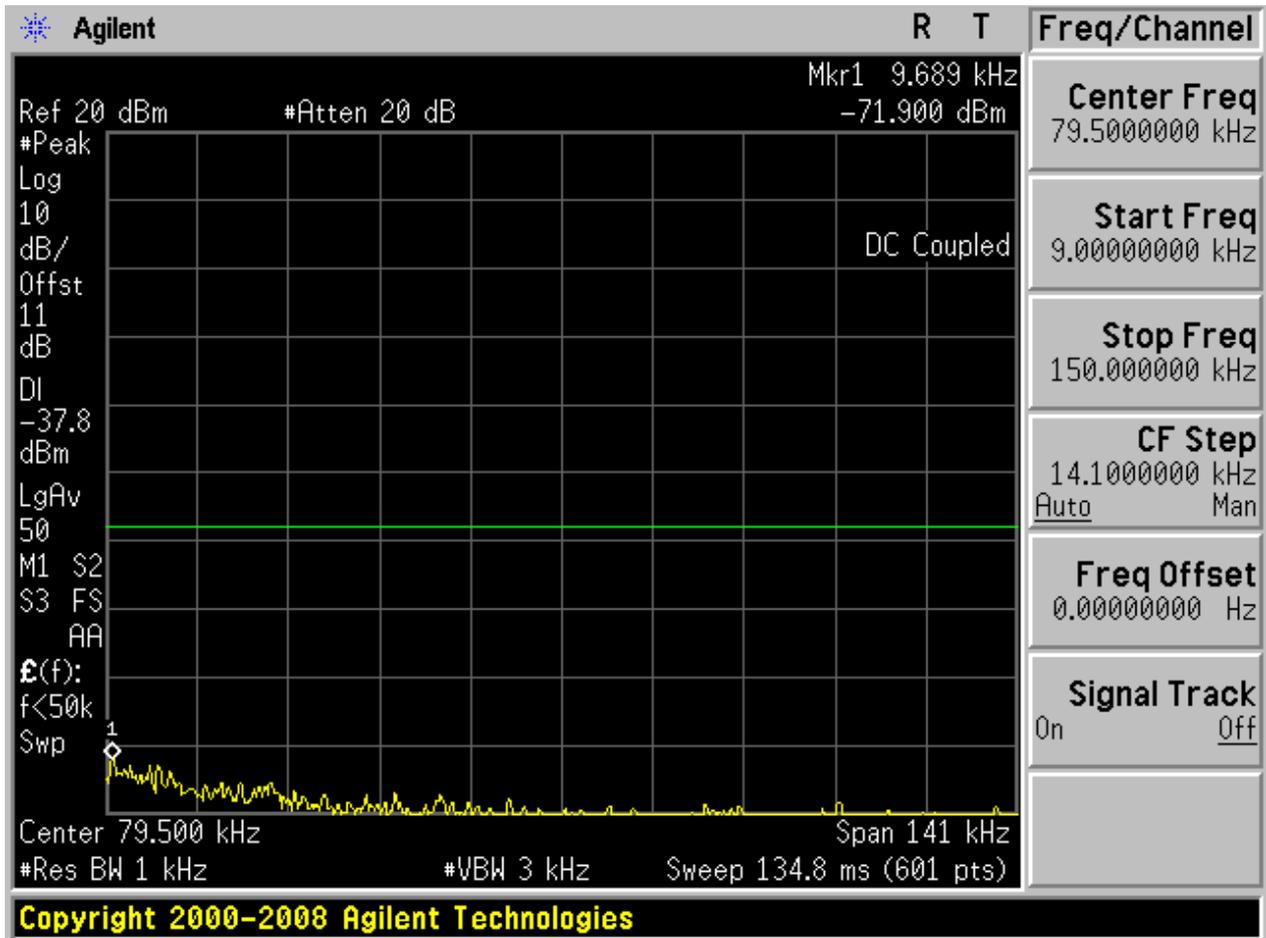


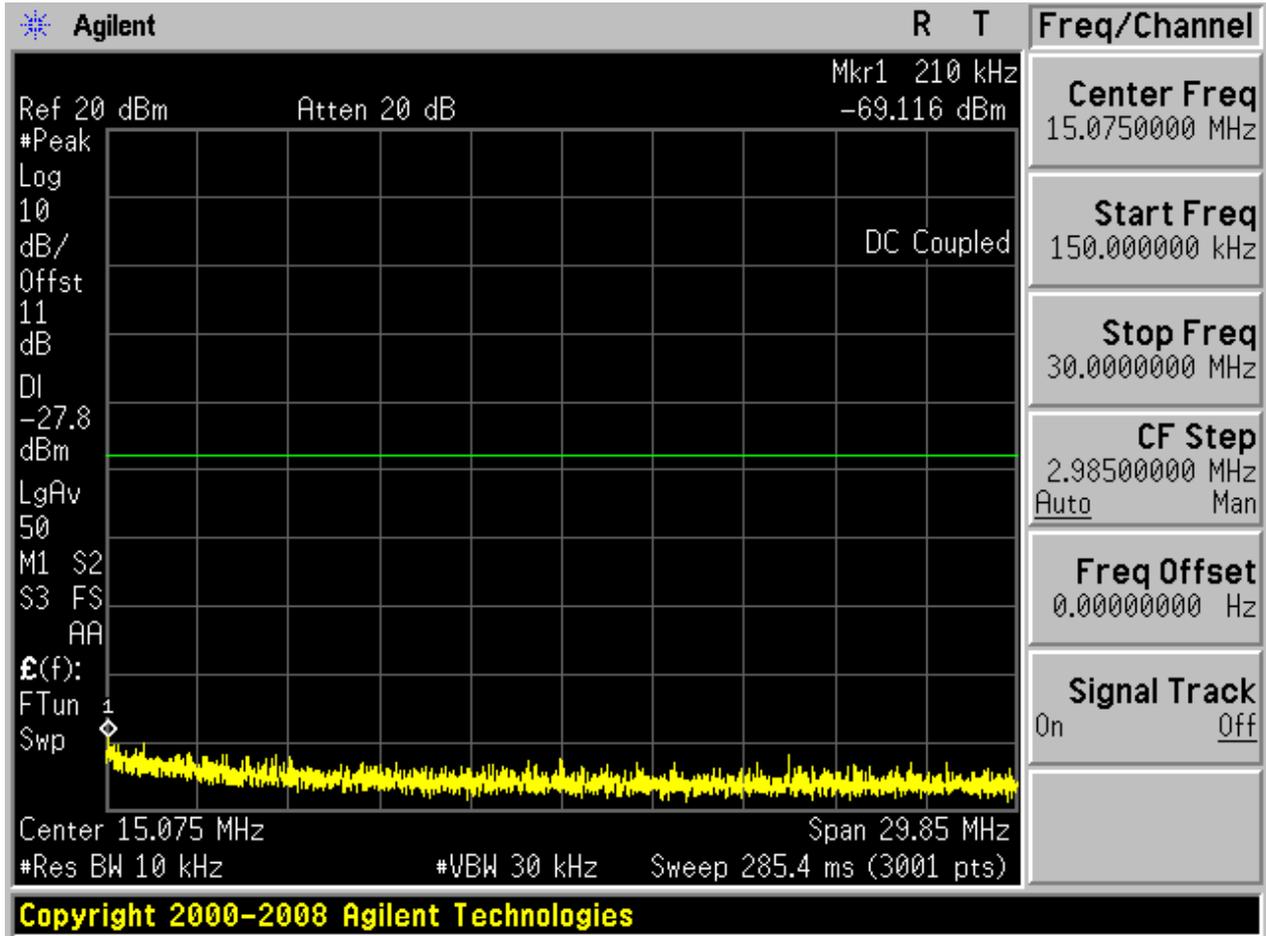
2.8 11N20_M

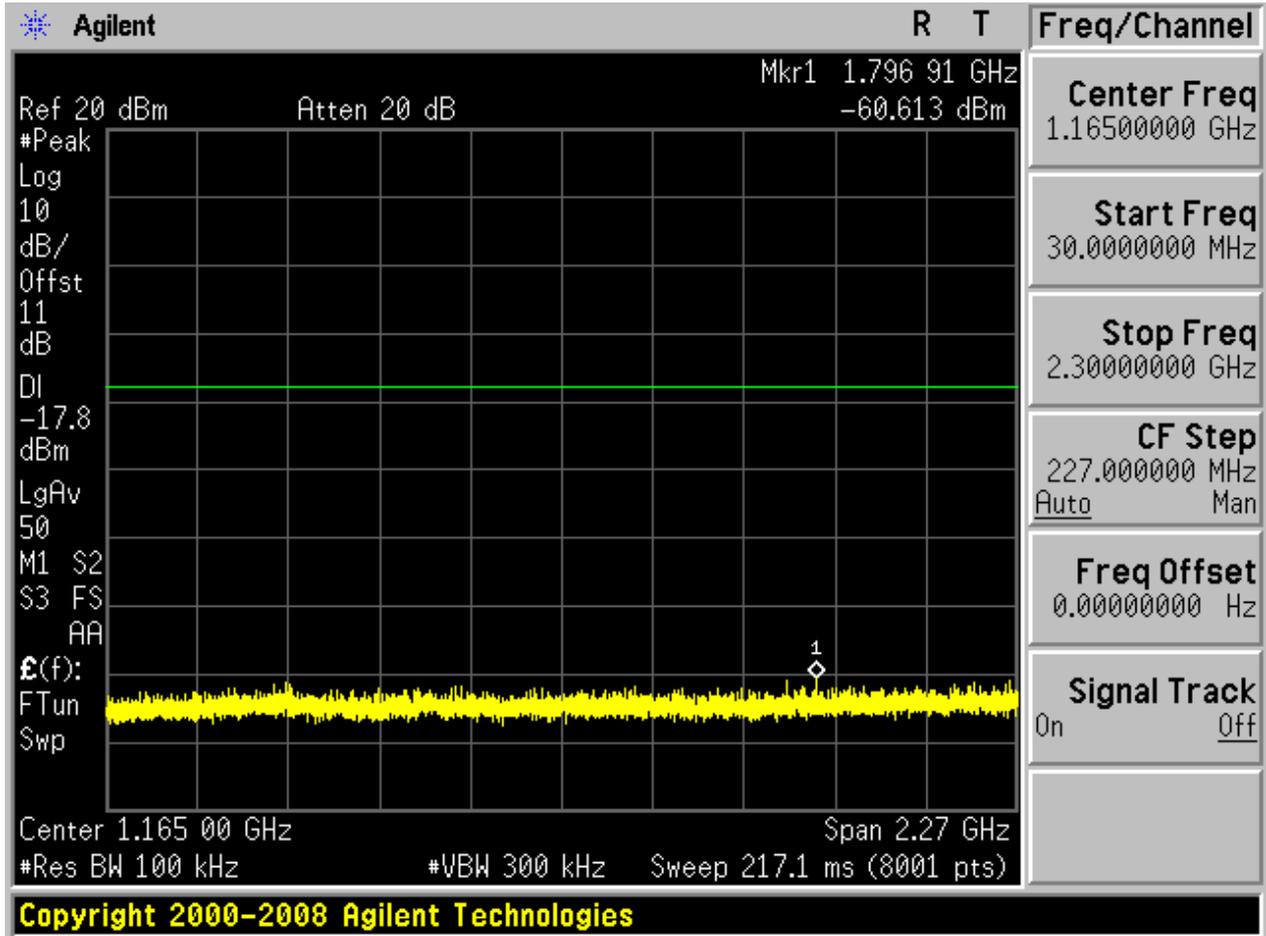
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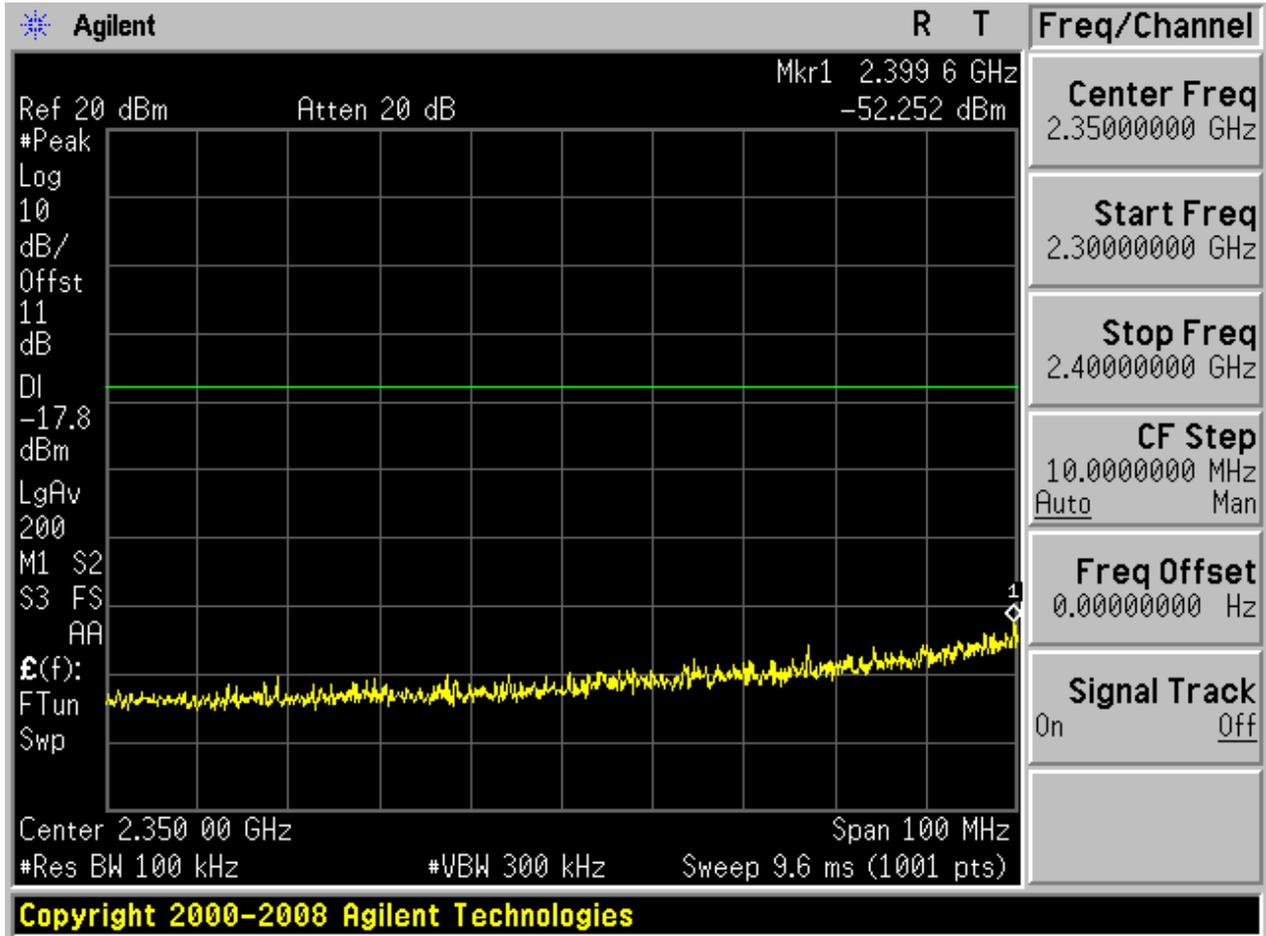


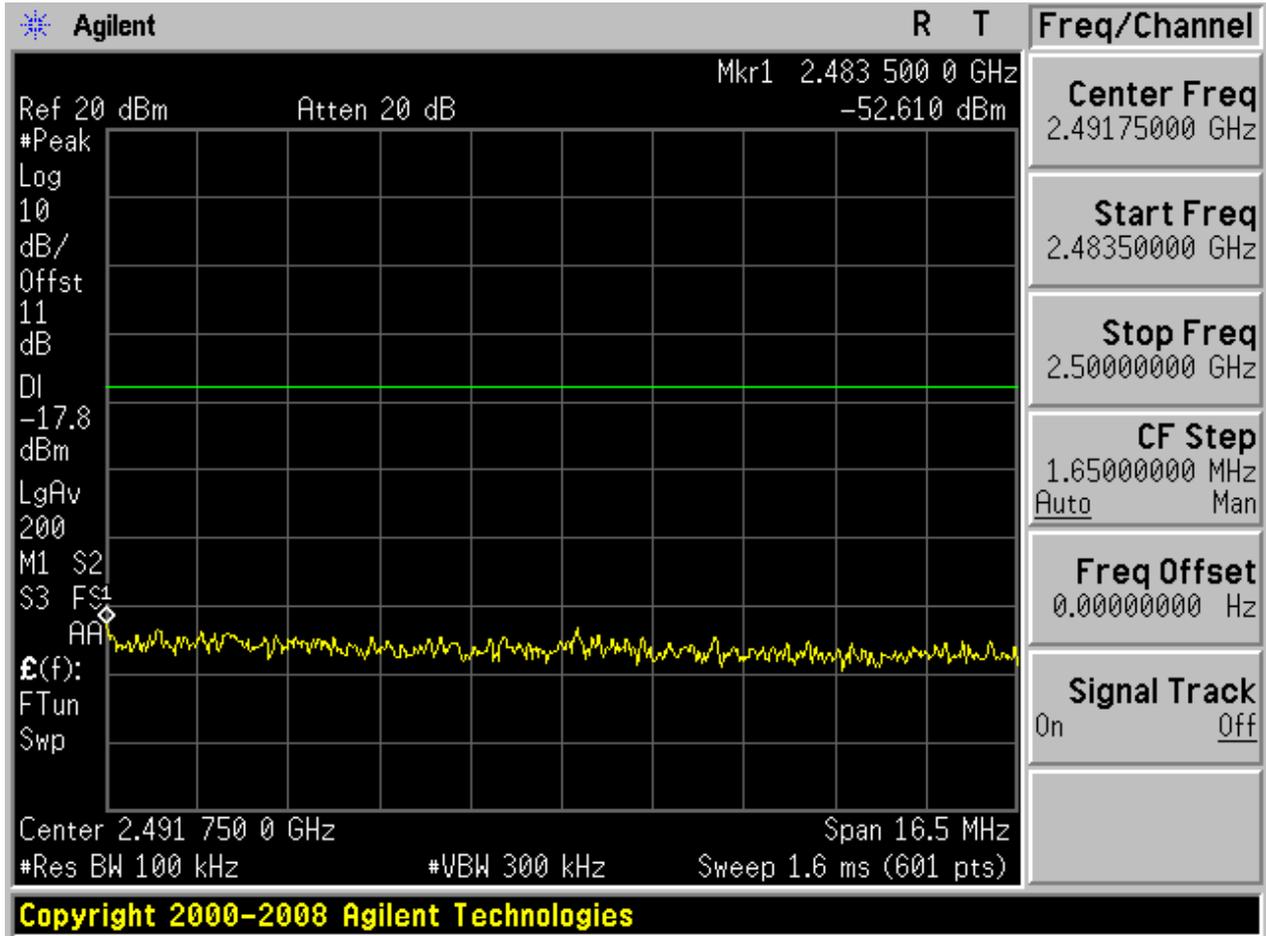
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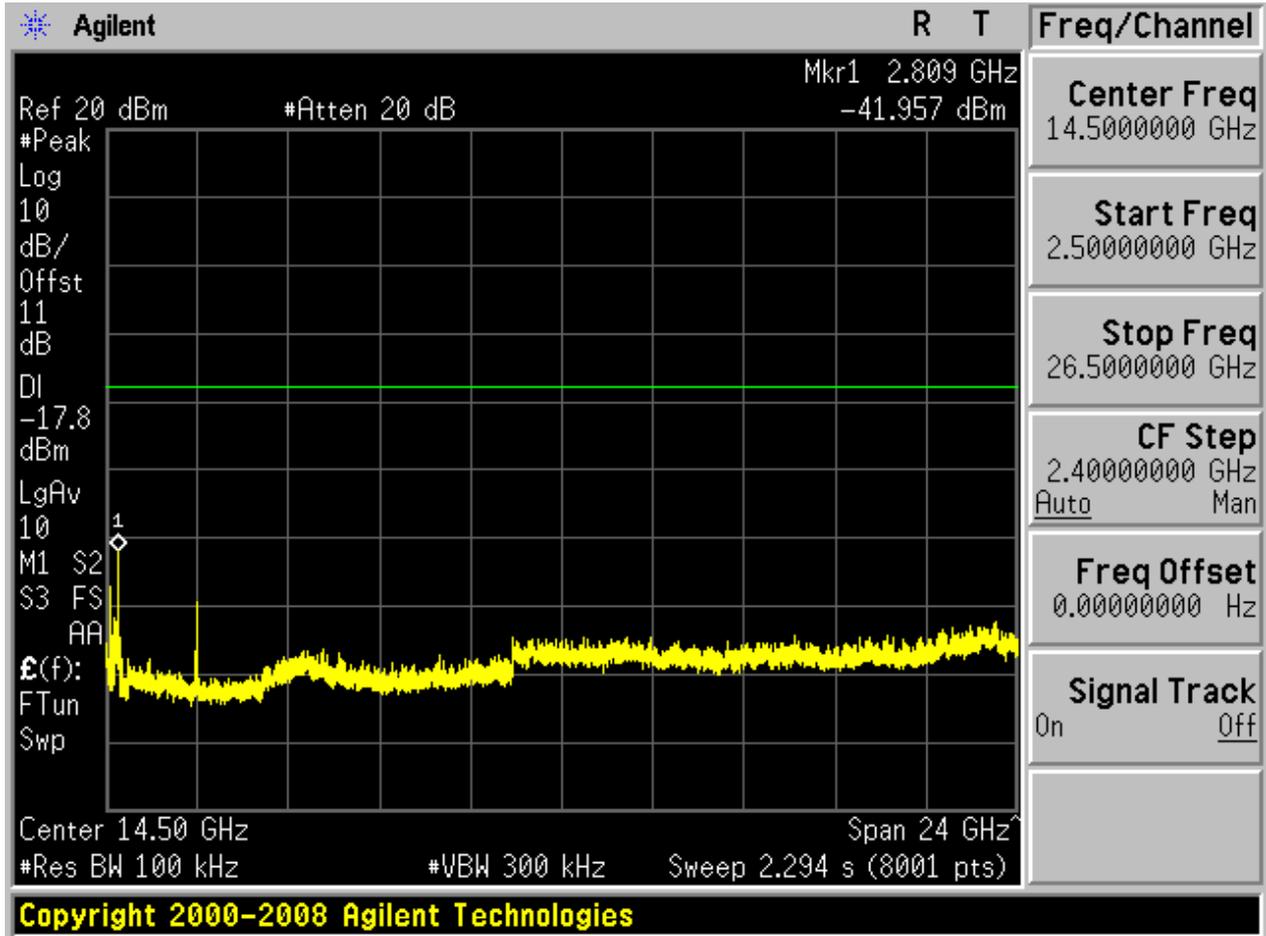






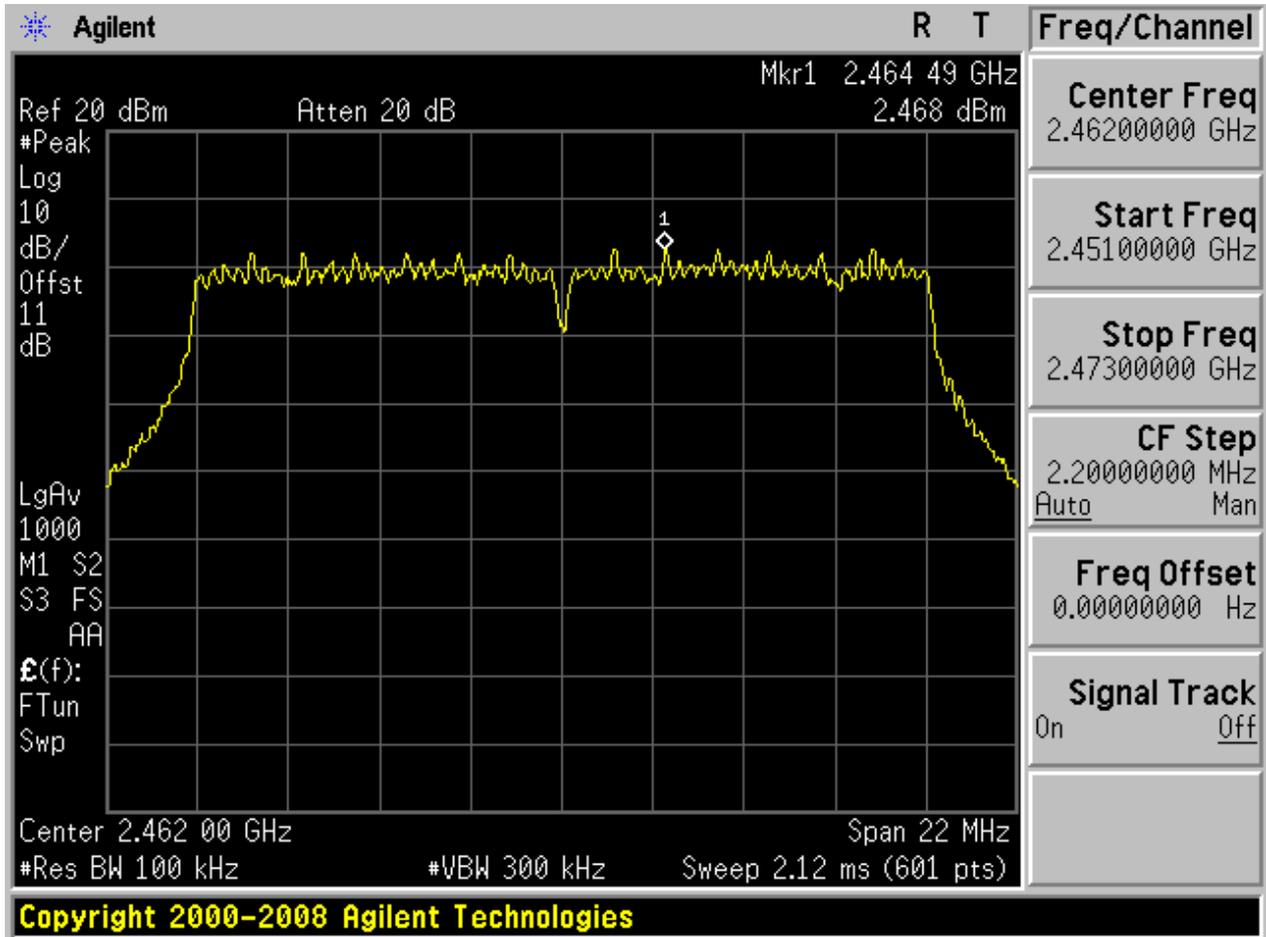






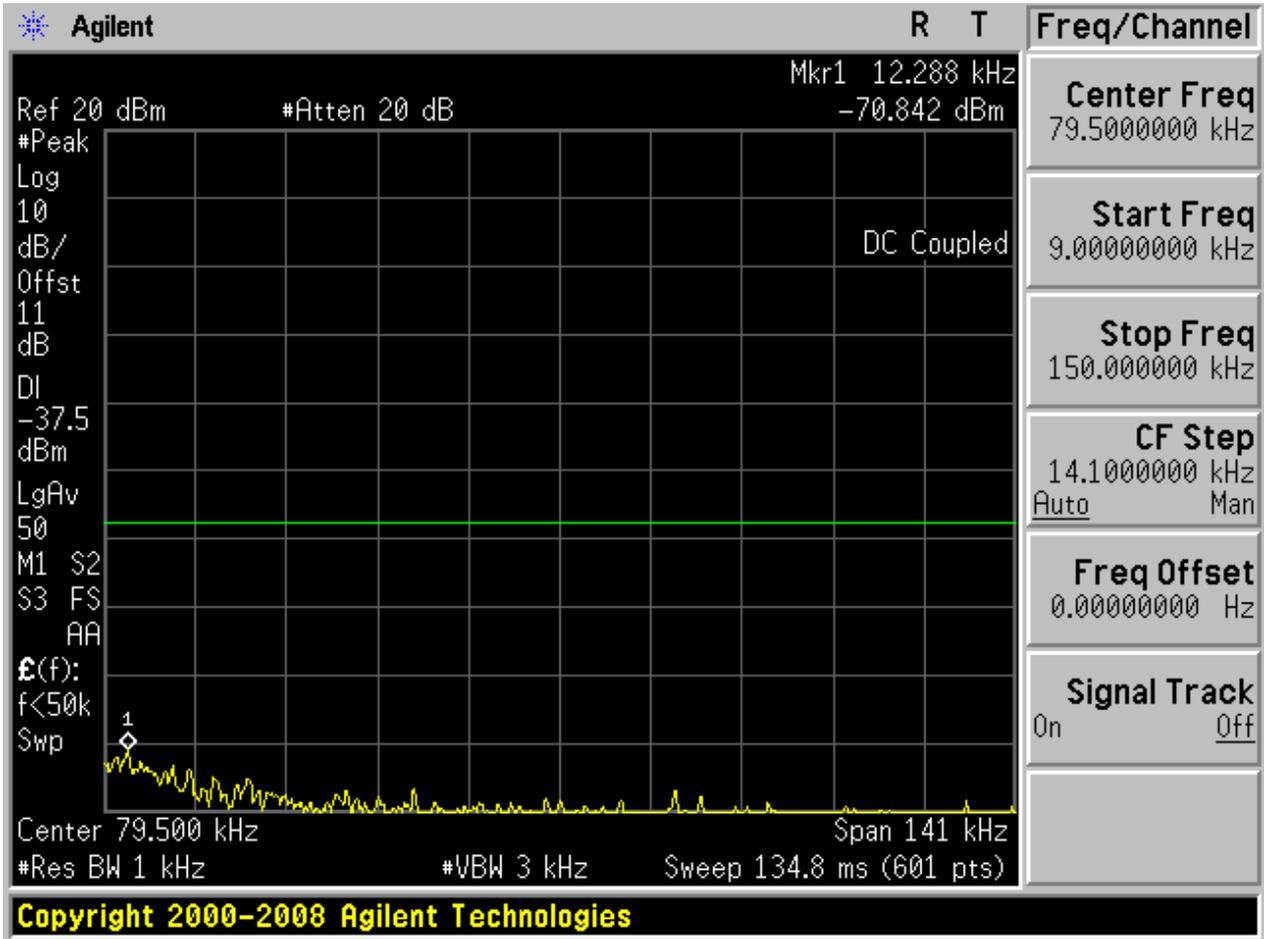
2.9 11N20_H

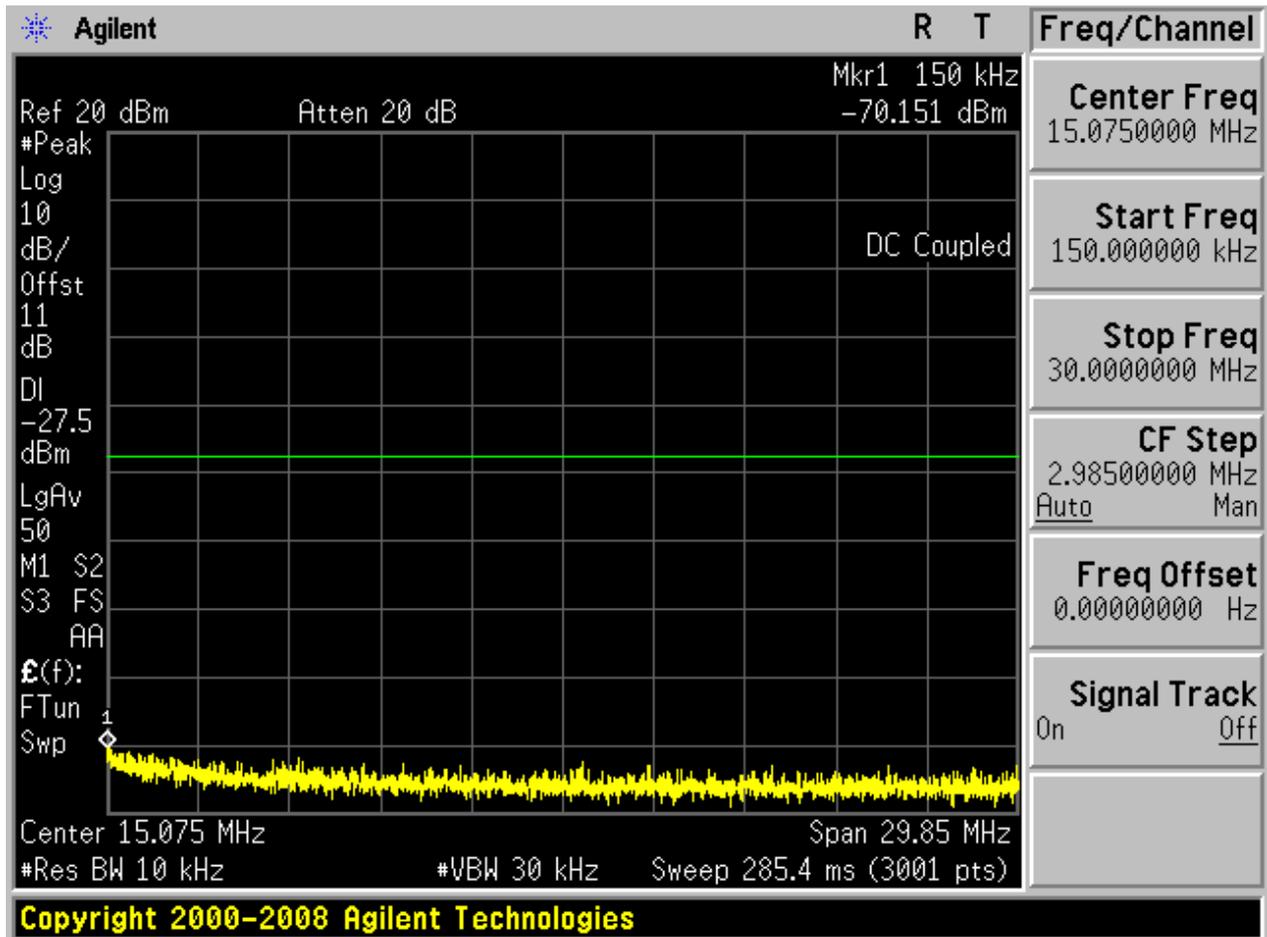
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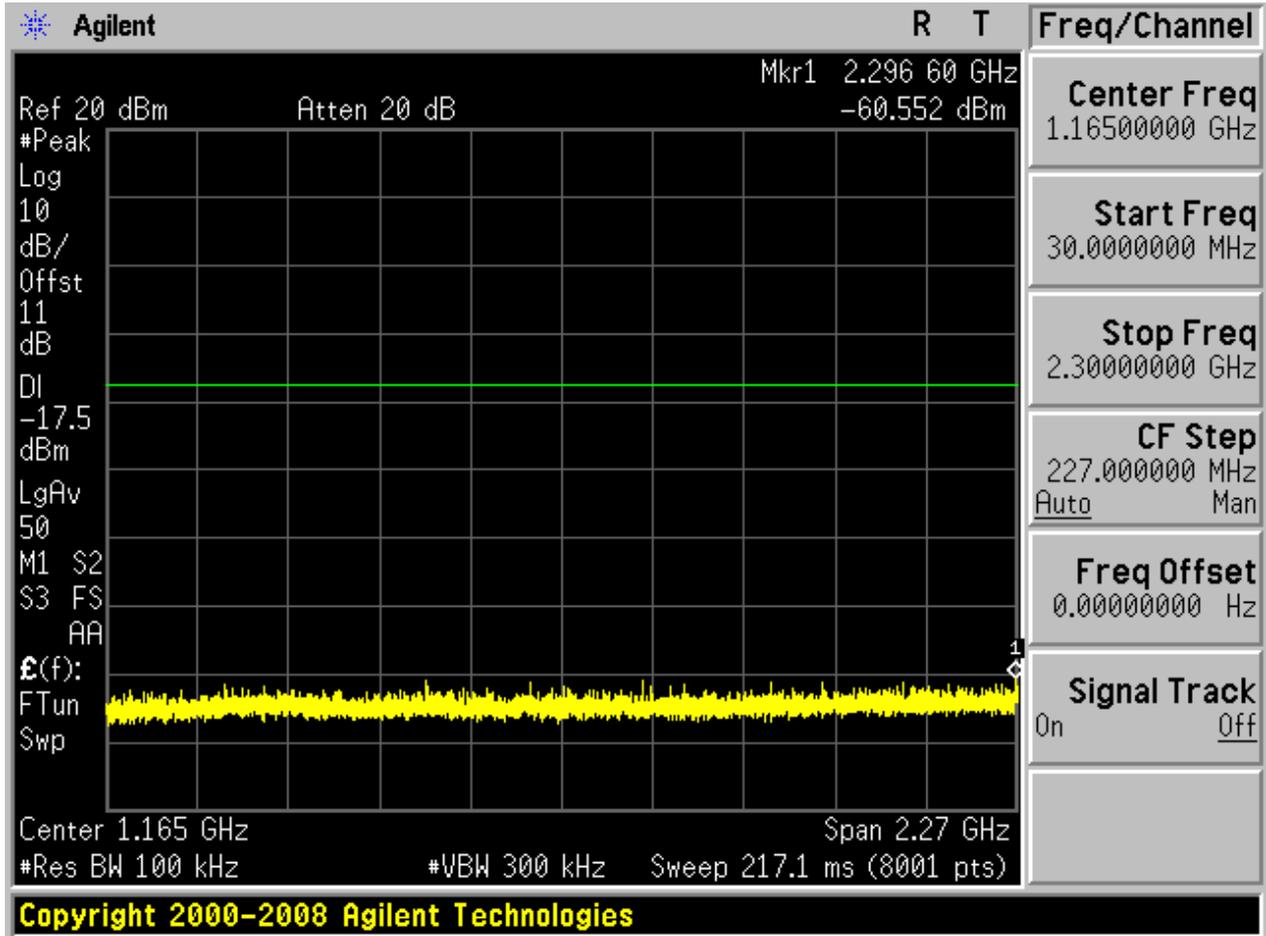


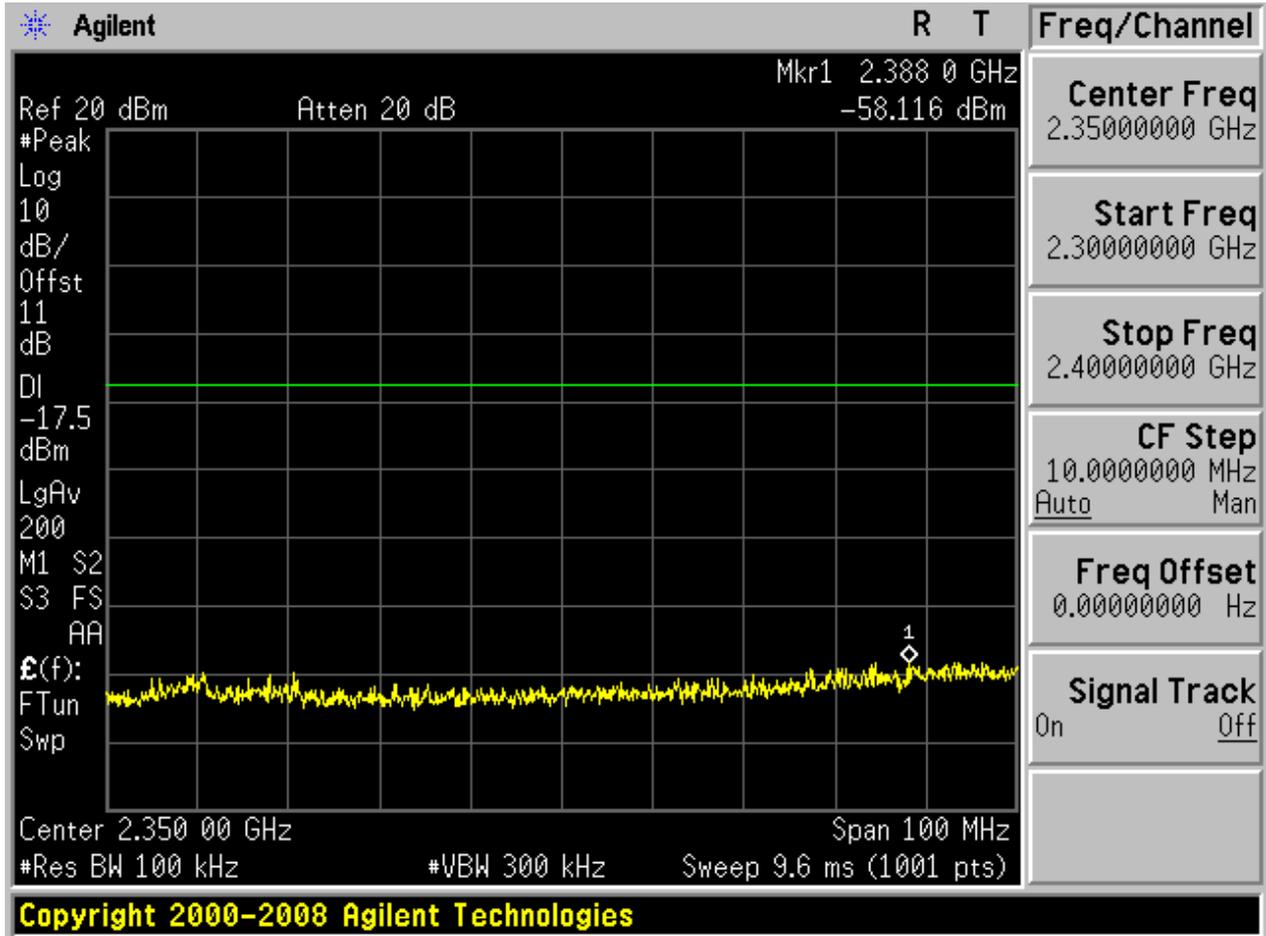


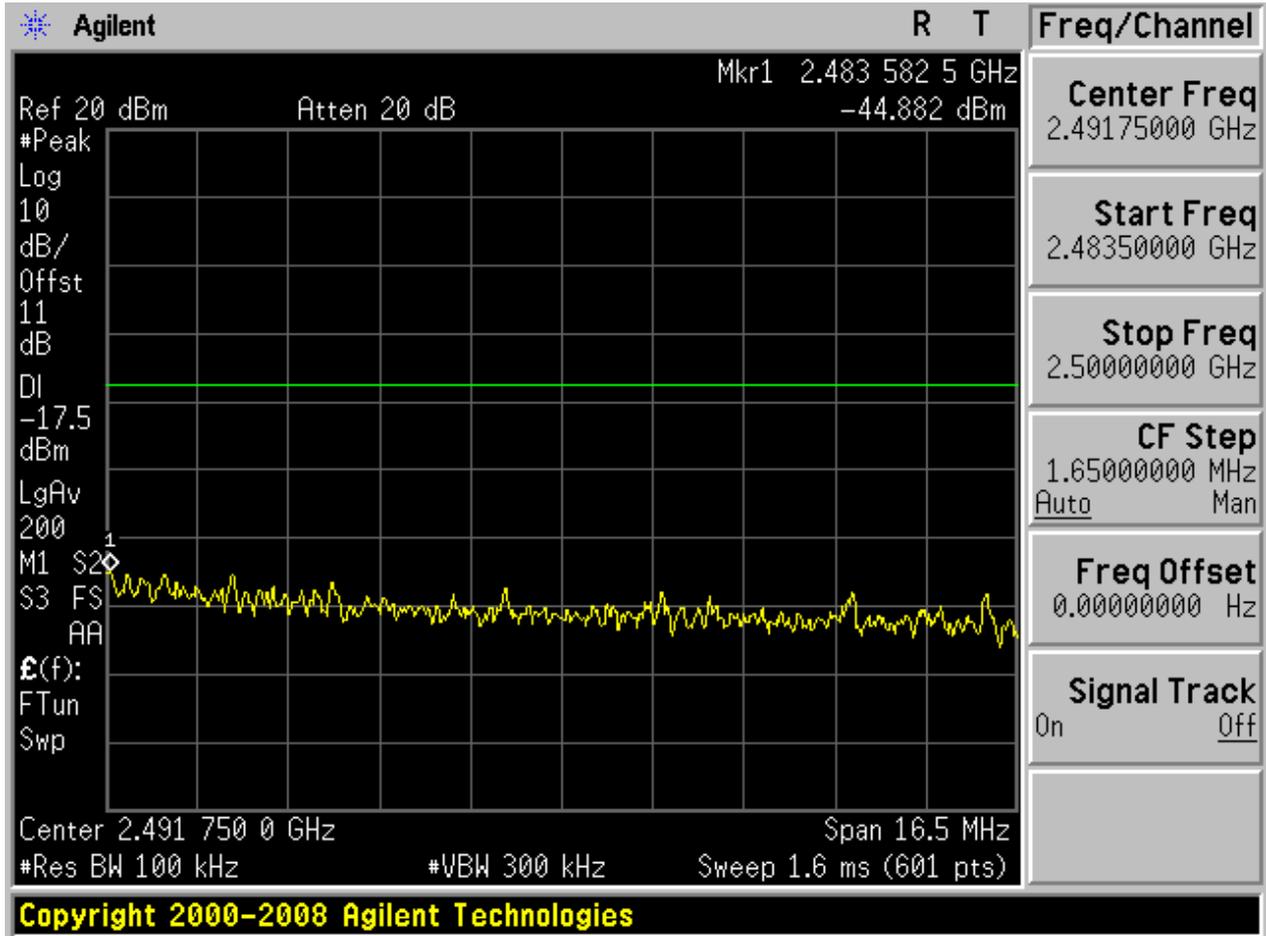
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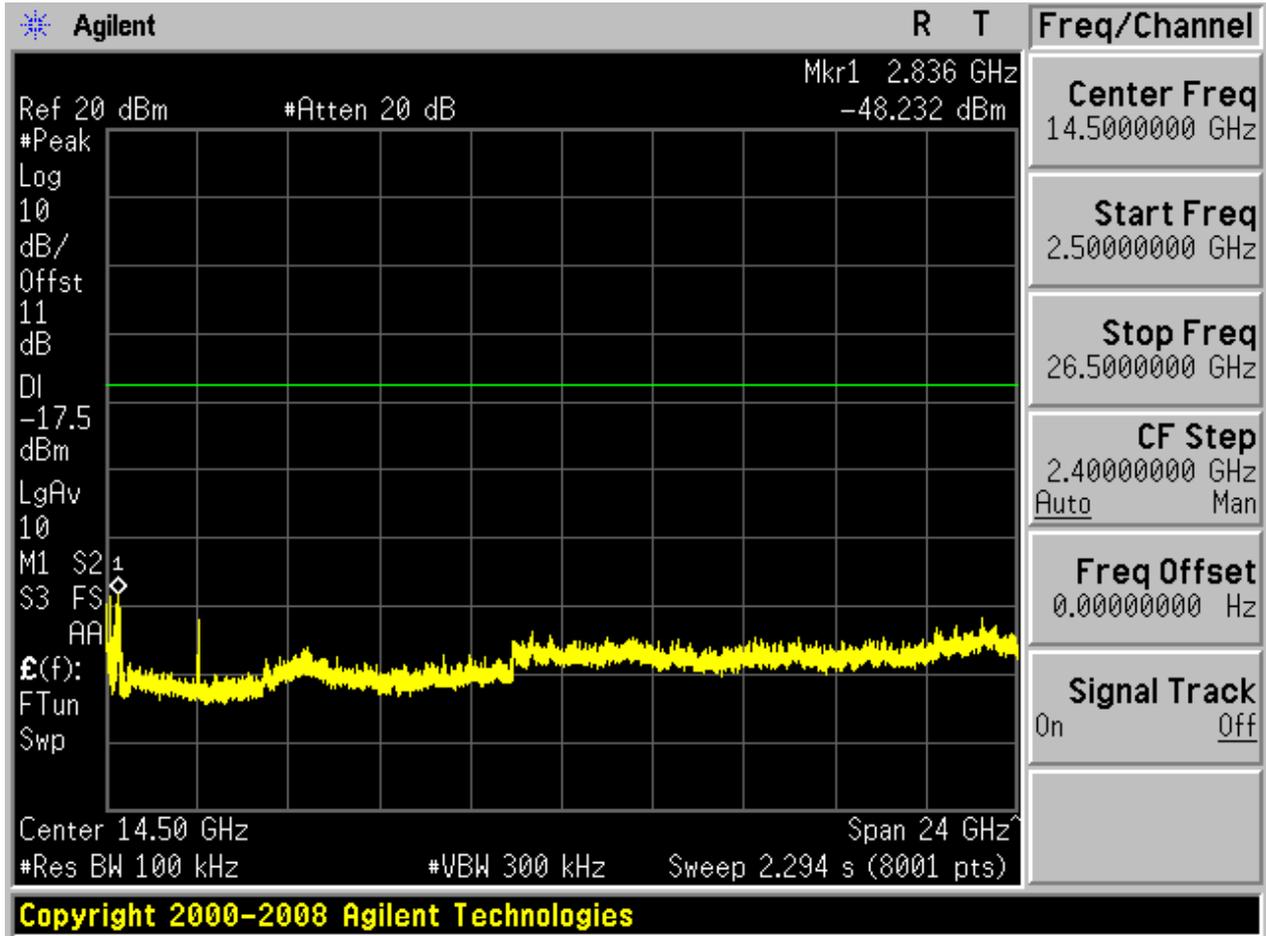










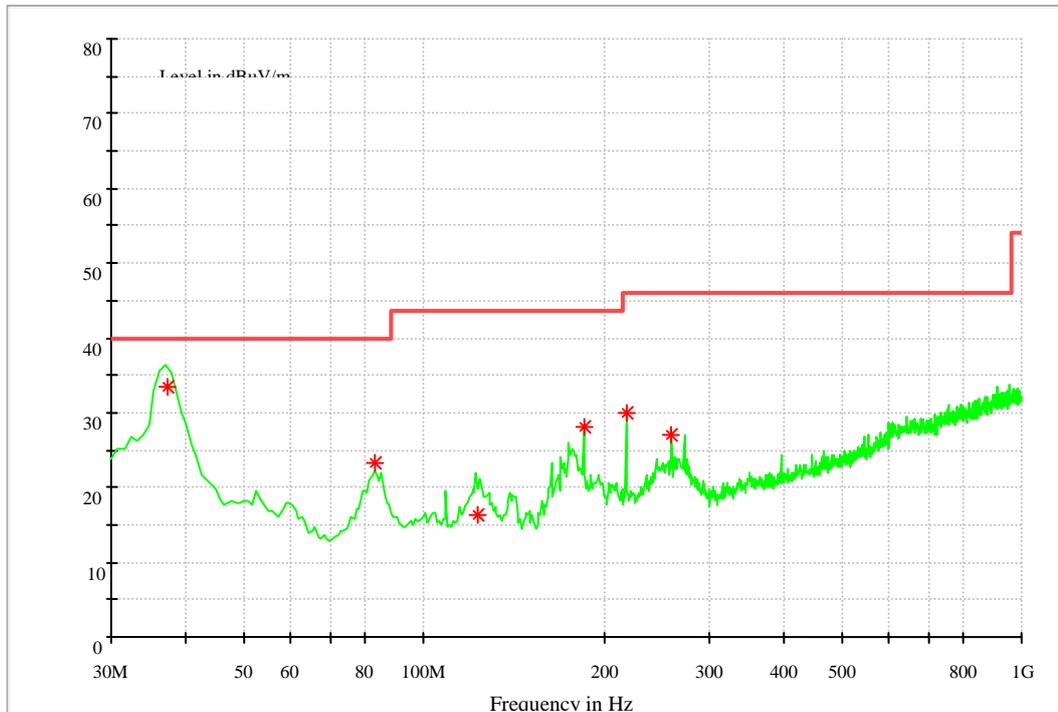


Appendix E: Radiated Spurious Emission & Spurious in Restricted Band

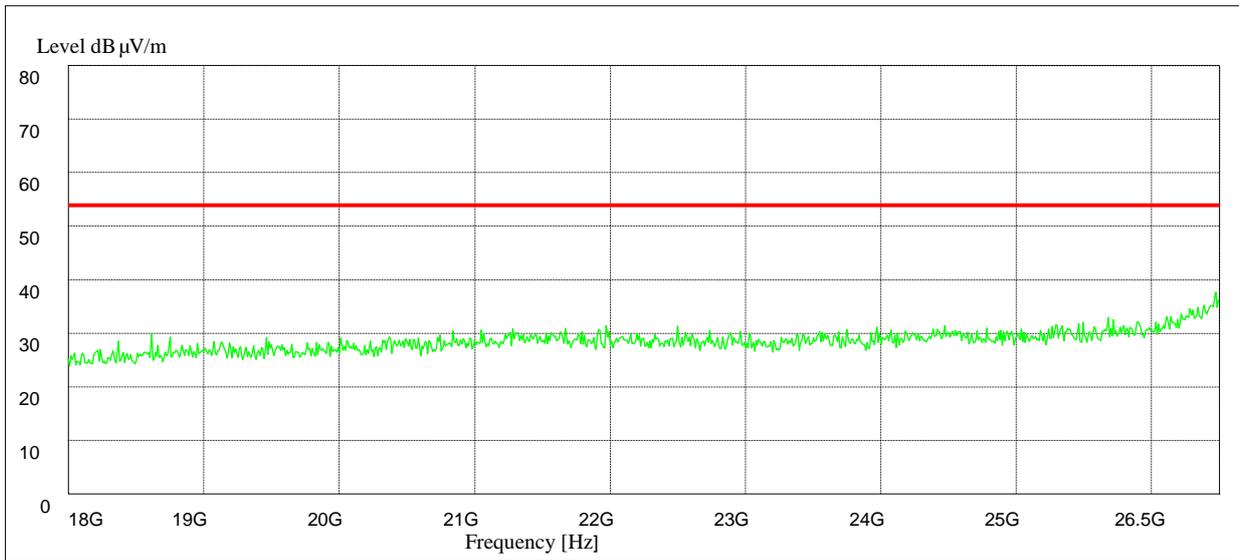
Part 1: Testing Range of “30 MHz to 1 GHz”

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

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



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Plarization
37.381440	33.4	12.6	40.0	6.6	100.0	188.0	VERTICAL
83.127040	23.3	9.7	40.0	16.7	205.0	122.0	HORIZONTAL
122.691520	16.3	10.6	43.5	27.2	100.0	107.0	VERTICAL
185.639680	28.2	11.5	43.5	15.3	179.0	245.0	HORIZONTAL
218.179840	30.0	13.2	46.0	16.0	146.0	131.0	HORIZONTAL
259.851520	27.1	14.9	46.0	18.9	100.0	236.0	HORIZONTAL

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

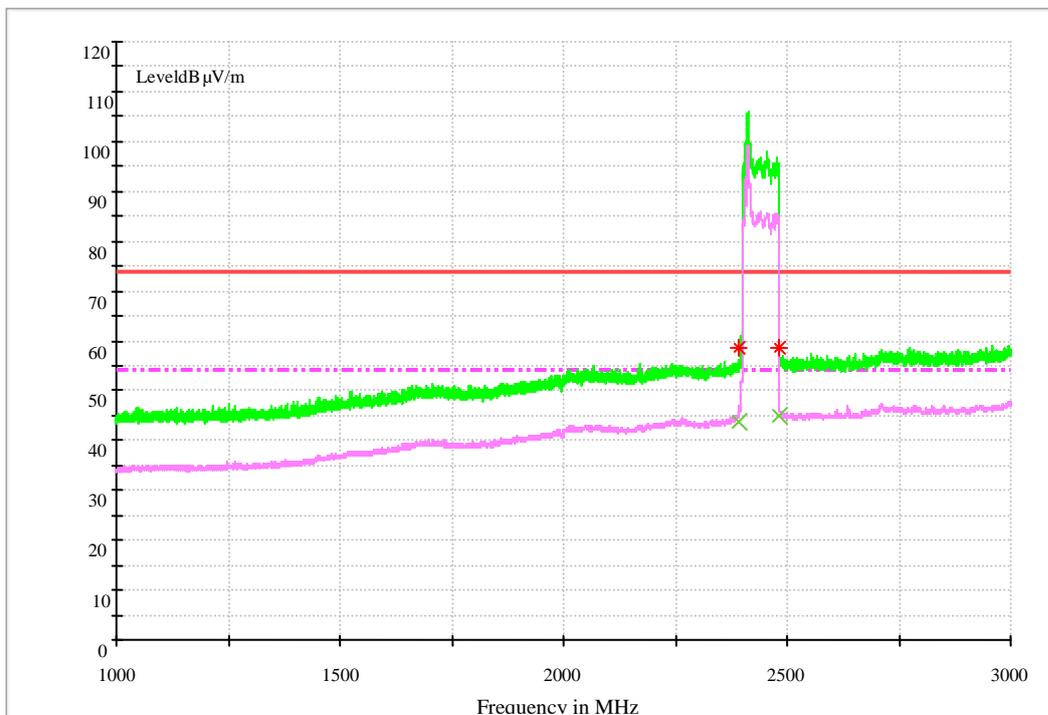
Note: No peak found in pre- test.

Part 3: Testing Range of “1GHz to3GHz”

- Note 1: The testing range of “1GHz to 3 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: 11B

Channel L



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

MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	58.7	38.3	74.0	15.3	187.0	26.0	VERTICAL
2483.500000	58.5	40.7	74.0	15.5	179.0	-34.0	VERTICAL

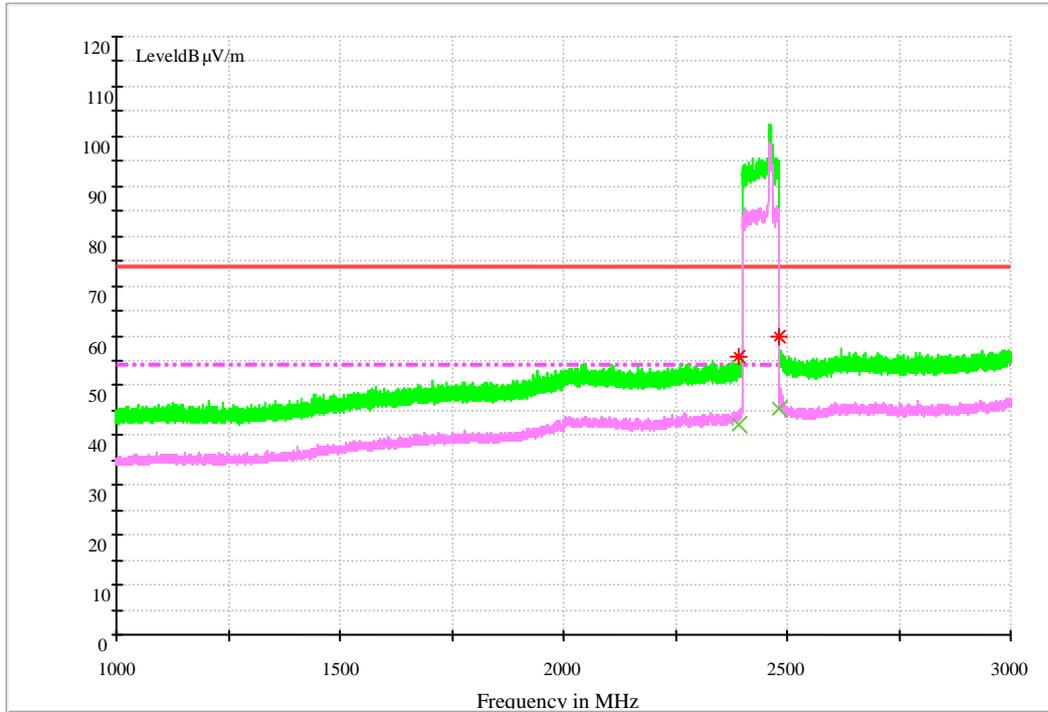
MEASUREMENT RESULT: AVDetector

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	43.9	38.3	54.0	10.1	100.0	147.0	HORIZONTAL

2483.500000	45.0	40.7	54.0	9.0	100.0	0.0	HORIZONTAL
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Channel H

FCC CLASS B WIFI 1GHz-3GHz



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

MEASUREMENT RESULT: PK Detector

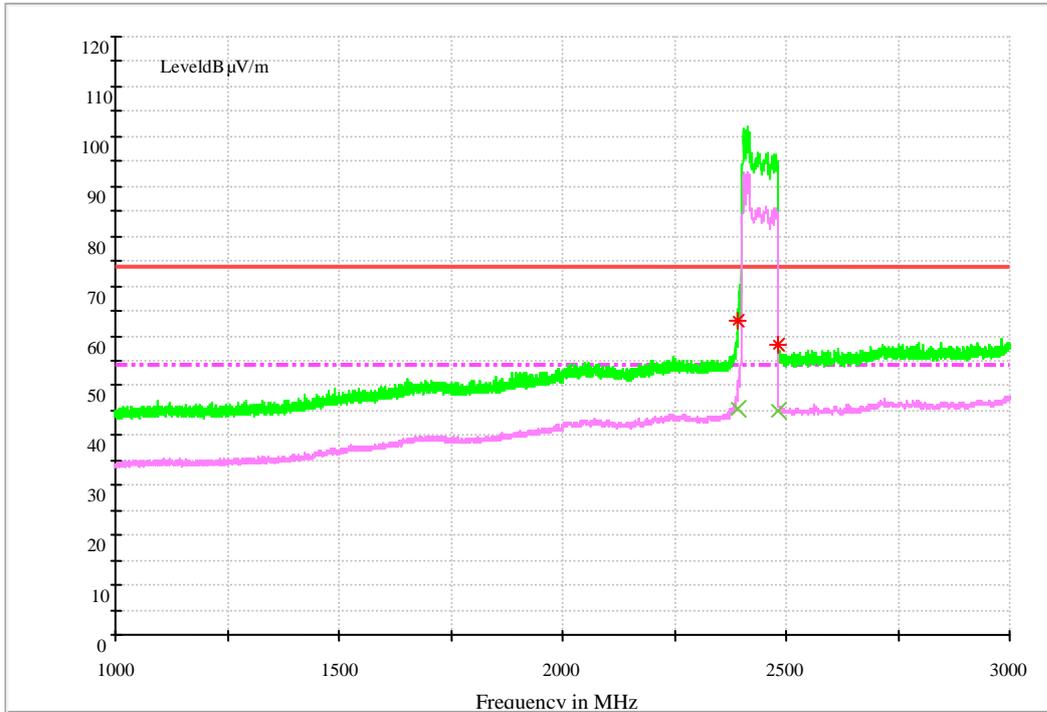
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	56.2	38.3	74.0	17.8	114.0	160.0	VERTICAL
2483.500000	59.7	40.7	74.0	14.3	100.0	251.0	HORIZONTAL

MEASUREMENT RESULT: AVDetector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	42.9	38.3	54.0	11.1	100.0	160.0	VERTICAL
2483.500000	45.7	40.7	54.0	8.3	100.0	244.0	HORIZONTAL

Test Mode: 11G

Channel L



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

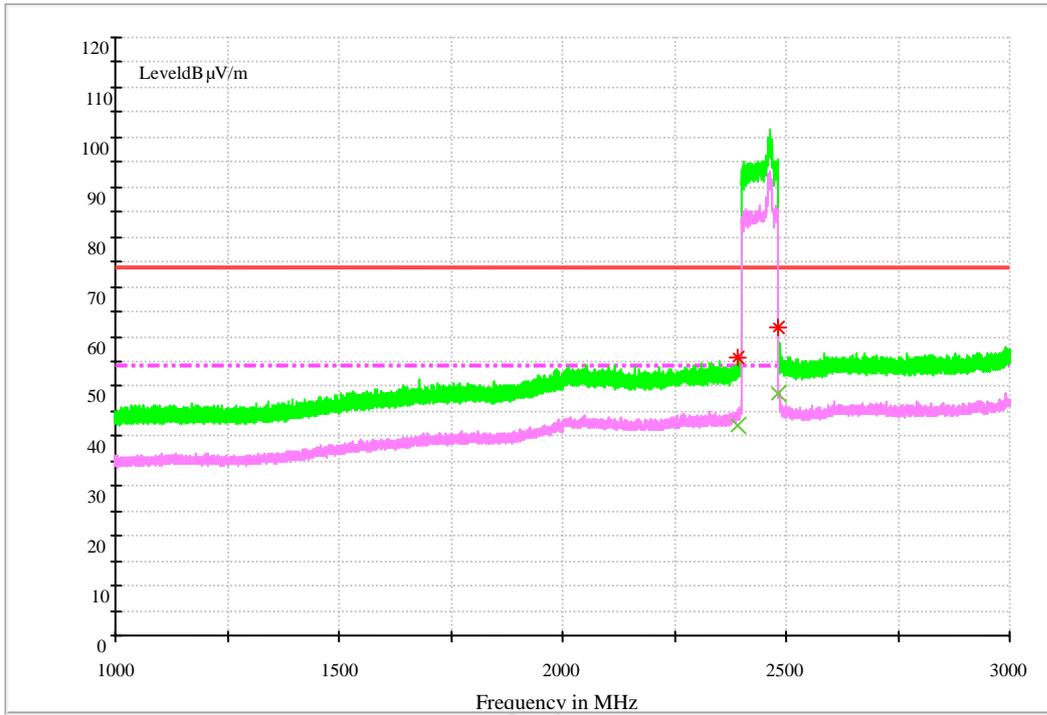
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	62.9	38.3	74.0	11.2	100.0	163.0	HORIZONTAL
2483.500000	58.2	40.7	74.0	15.8	100.0	177.0	VERTICAL

MEASUREMENT RESULT: AVDetector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	45.3	38.3	54.0	8.7	100.0	147.0	HORIZONTAL
2483.500000	45.0	40.7	54.0	9.0	100.0	222.0	VERTICAL

Channel H



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

MEASUREMENT RESULT: PK Detector

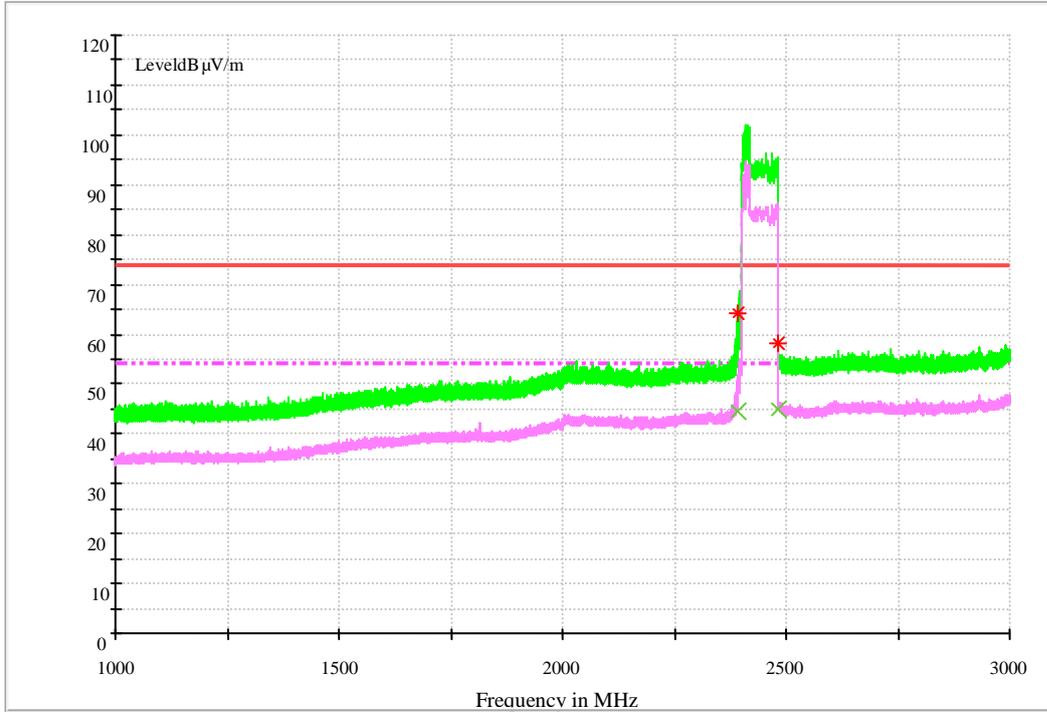
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	56.3	38.3	74.0	17.7	100.0	167.0	HORIZONTAL
2483.500000	63.9	40.7	74.0	10.1	121.0	100.0	HORIZONTAL

MEASUREMENT RESULT: AVDetector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	43.1	38.3	54.0	10.9	100.0	145.0	HORIZONTAL
2483.500000	46.4	40.7	54.0	7.6	100.0	100.0	HORIZONTAL

Test Mode: 11N

Channel L



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

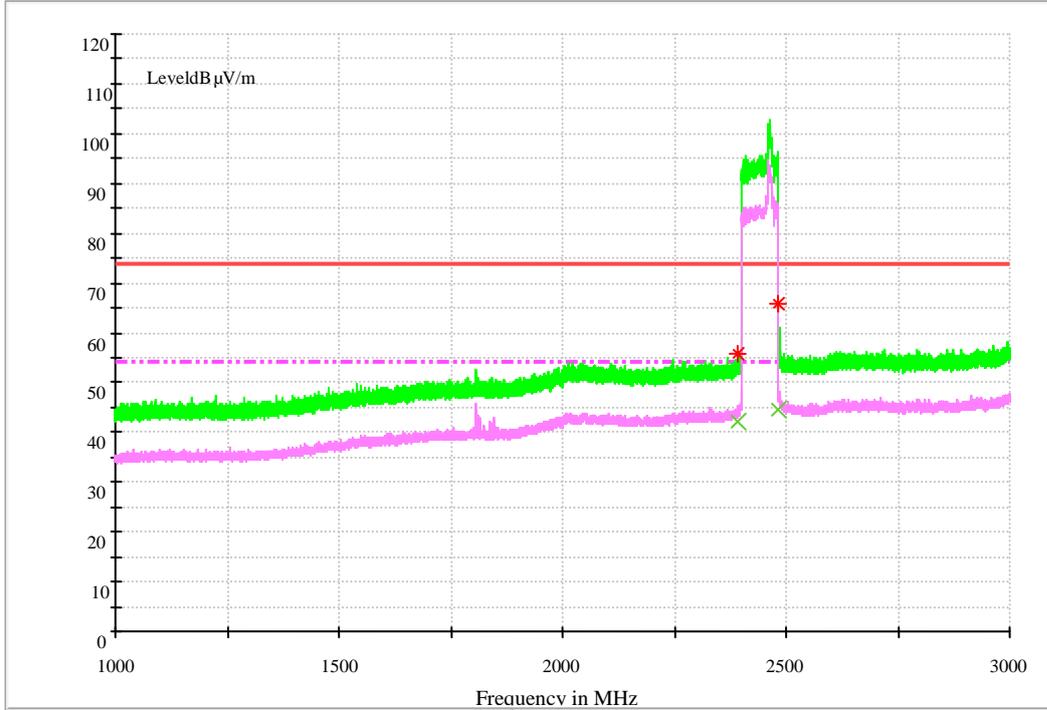
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	66.3	38.3	74.0	7.7	100.0	269.0	HORIZONTAL
2483.500000	58.1	40.7	74.0	15.9	100.0	211.0	VERTICAL

MEASUREMENT RESULT: AVDetector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	46.3	38.3	54.0	7.7	100.0	253.0	HORIZONTAL
2483.500000	44.8	40.7	54.0	9.2	100.0	283.0	HORIZONTAL

Channel H



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

MEASUREMENT RESULT: PK Detector

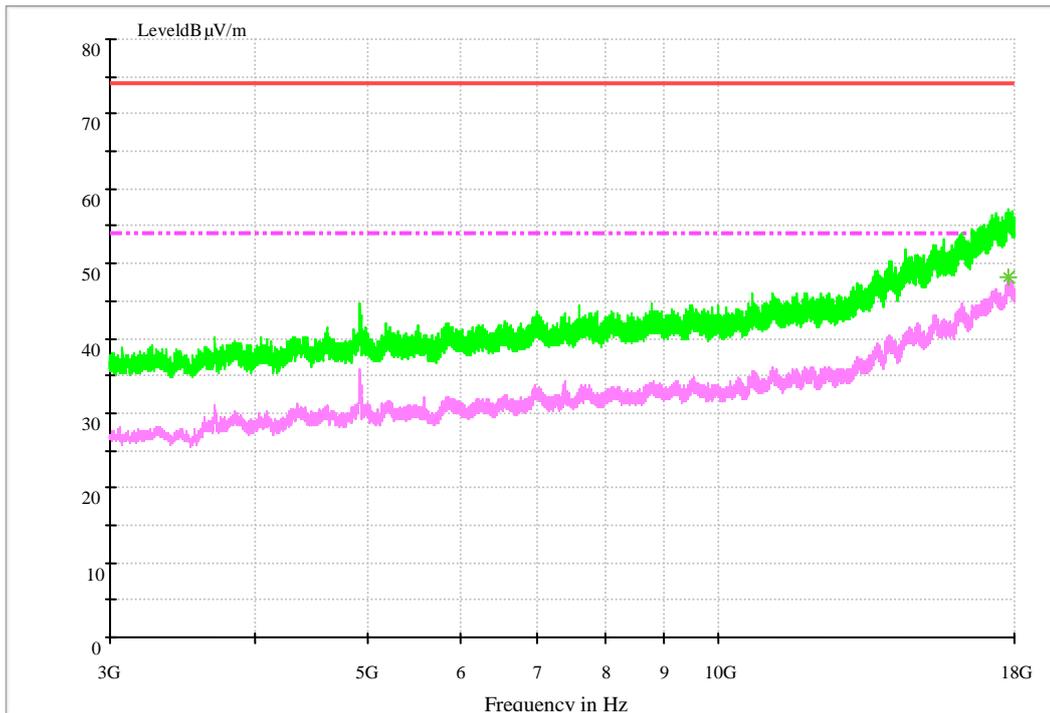
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	56.5	38.3	74.0	17.5	100.0	7.0	HORIZONTAL
2483.500000	65.5	40.7	74.0	8.5	100.0	163.0	HORIZONTAL

MEASUREMENT RESULT: AVDetector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	43.1	38.3	54.0	11.0	100.0	7.0	HORIZONTAL
2483.500000	46.4	40.7	54.0	7.6	100.0	167.0	HORIZONTAL

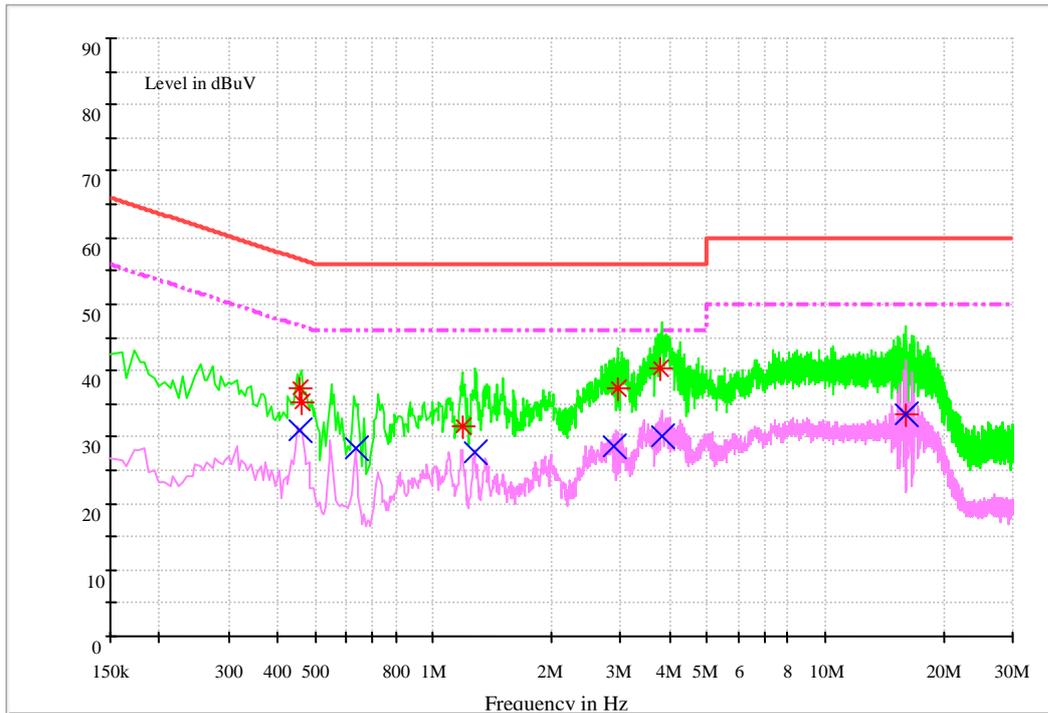
Part 4: Testing Range of “3GHz to 18 GHz”

- Note 1: The test results and plot for testing range of “3GHz 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 “3GHz to 18 GHz” is for checking radiated emissions located in restricted bands far away 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 G: Conducted Emission at Power Port

Channel 6



MEASUREMENT RESULT: QP Detector

Frequency	Level	Transducer	Limit	Margin	Line	PE
MHz	dB μ V	dB	dB μ V	dB		
0.456450	37.4	9.7	56.8	19.4	N	FLO
0.463542	35.2	9.7	56.6	21.4	L1	FLO
1.192916	31.7	9.7	56.0	24.3	L1	FLO
2.961368	37.5	9.7	56.0	18.5	N	FLO
3.782190	40.4	9.7	56.0	15.6	N	FLO
16.009936	33.3	10.1	60.0	26.7	N	FLO

MEASUREMENT RESULT: AV Detector

Frequency	Level	Transducer	Limit	Margin	Line	PE
MHz	dB μ V	dB	dB μ V	dB		
0.458486	31.0	9.7	46.7	15.7	N	FLO
0.634140	28.3	9.7	46.0	17.7	N	FLO



1.271778	27.6	9.7	46.0	18.4	N	FLO
2.887207	28.7	9.7	46.0	17.3	N	FLO
3.810918	30.1	9.7	46.0	15.9	N	FLO
16.008768	33.3	10.1	50.0	16.7	N	FLO

END