



Appendix A: 20dB Emission Bandwidth (EBW)



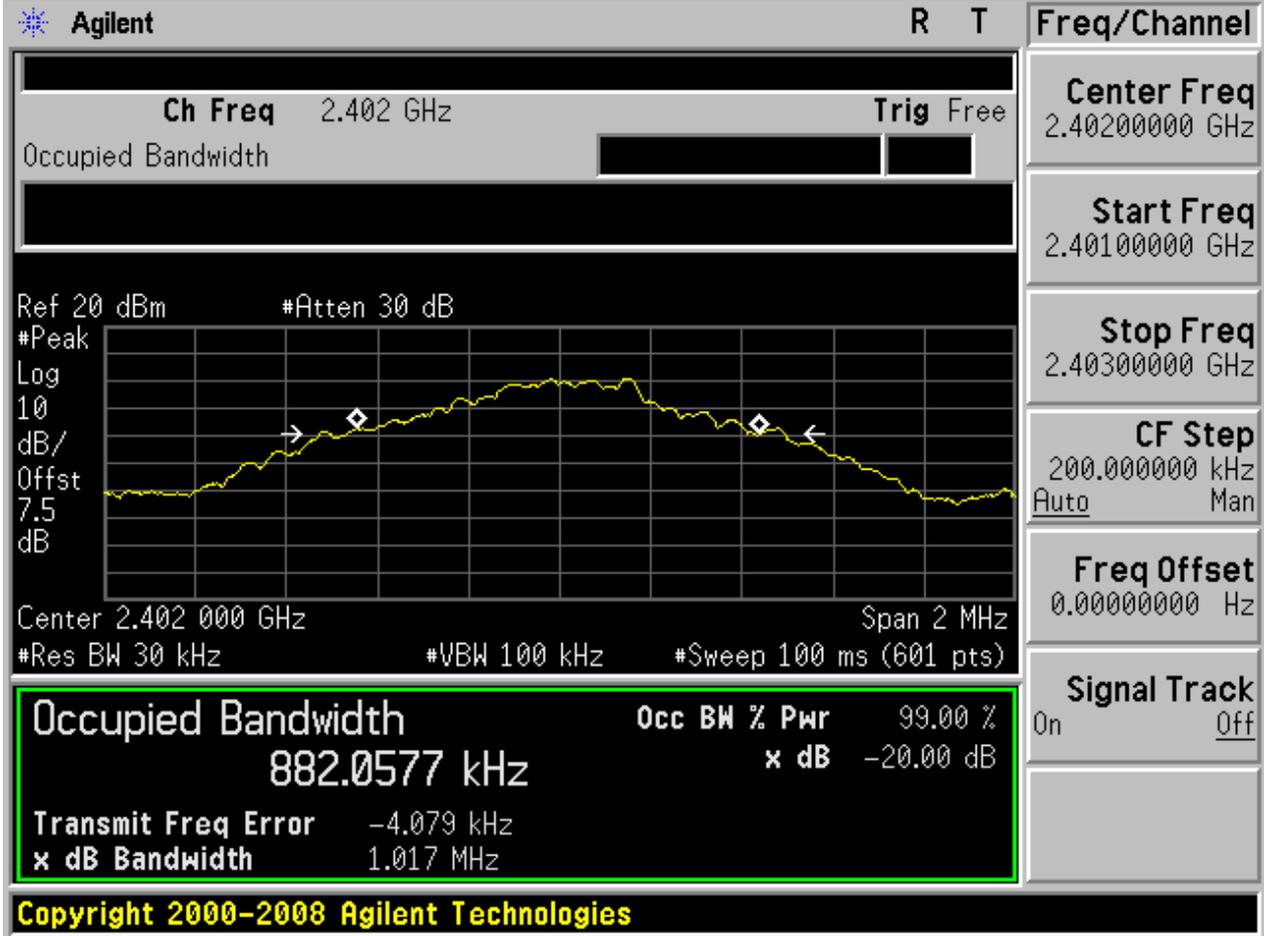
1 Result Table

EUT Conf.	EBW [MHz]	Verdict
TM1_DH5_Ch0	1.017	Pass
TM1_DH5_Ch39	1.017	Pass
TM1_DH5_Ch78	1.016	Pass
TM2_2DH5_Ch0	1.337	Pass
TM2_2DH5_Ch39	1.336	Pass
TM2_2DH5_Ch78	1.336	Pass
TM3_3DH5_Ch0	1.320	Pass
TM3_3DH5_Ch39	1.311	Pass
TM3_3DH5_Ch78	1.311	Pass



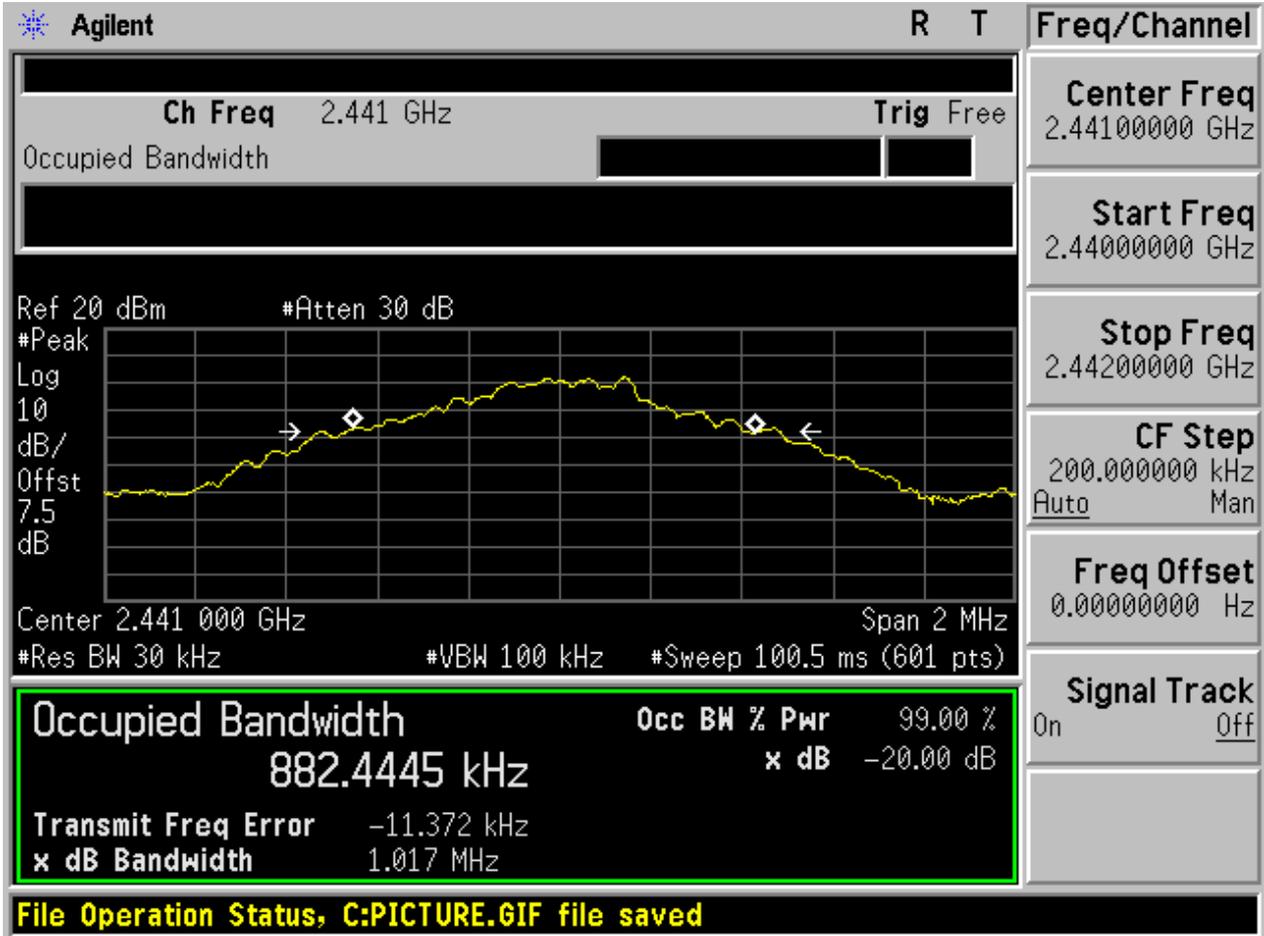
2 Test Plot

2.1 TM1_DH5_Ch0





2.2 TM1_DH5_Ch39



2.3 TM1_DH5_Ch78

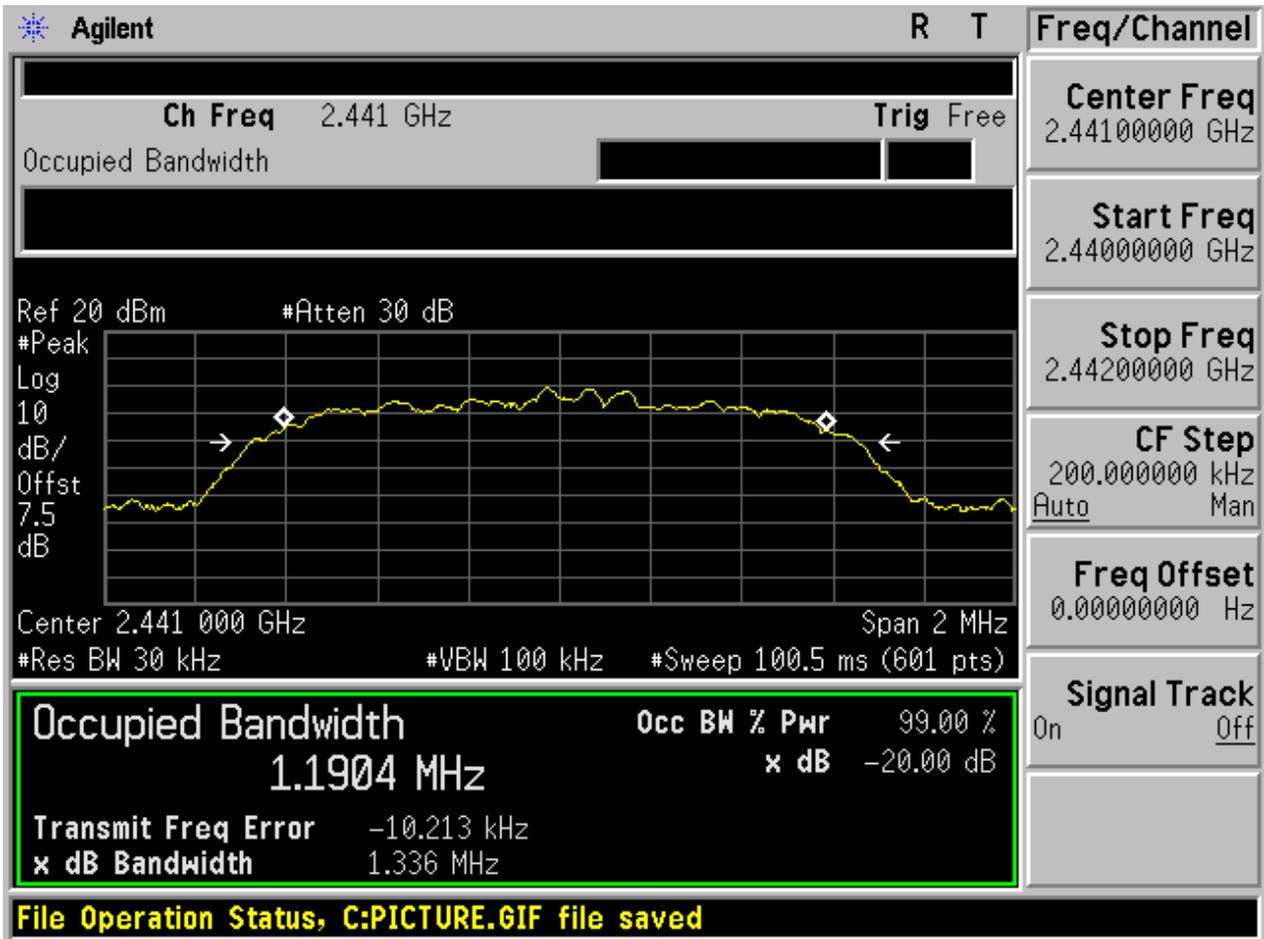


2.4 TM2_2DH5_Ch0





2.5 TM2_2DH5_Ch39





2.6 TM2_2DH5_Ch78

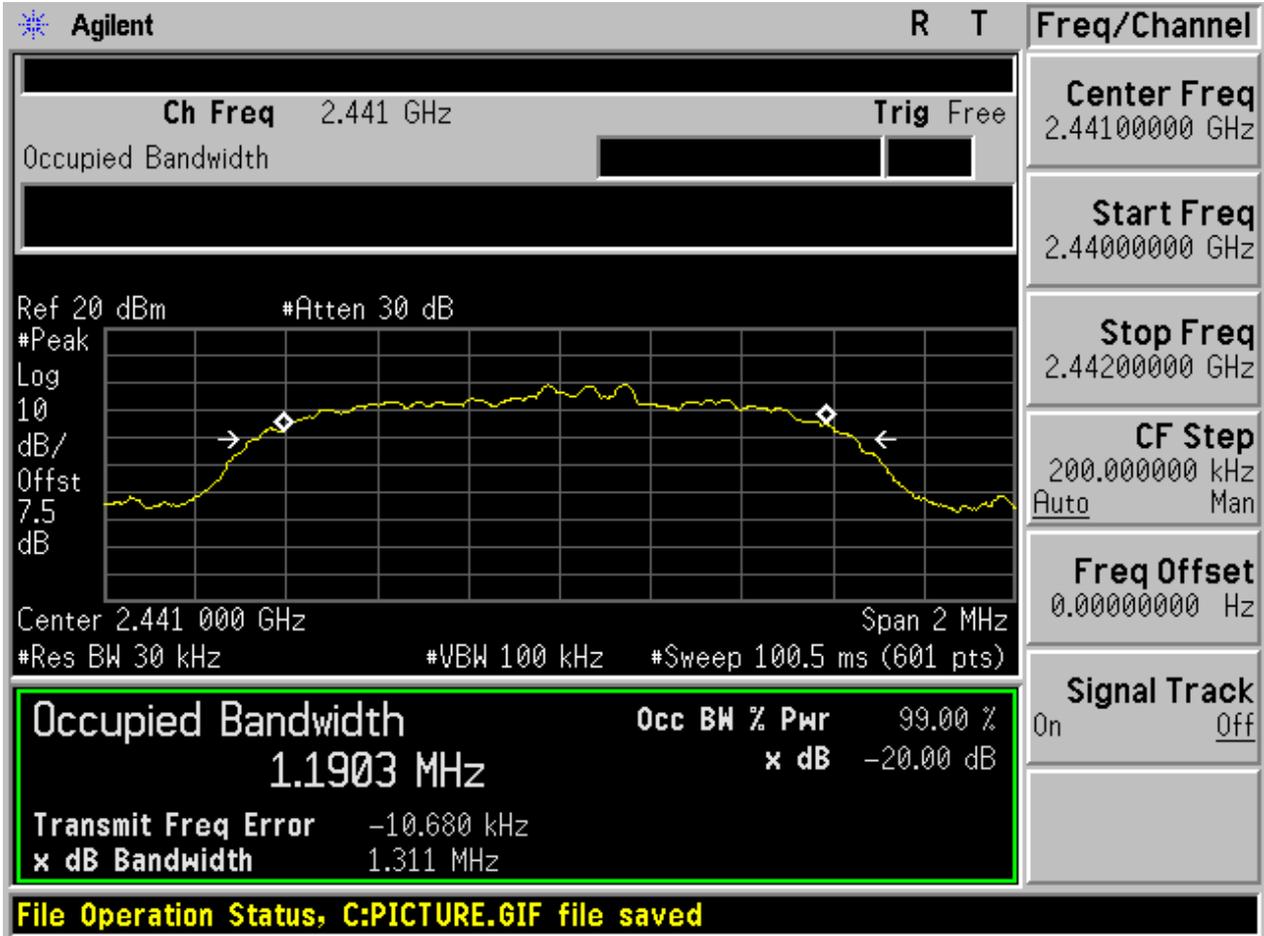


2.7 TM3_3DH5_Ch0





2.8 TM3_3DH5_Ch39





2.9 TM3_3DH5_Ch78

Agilent		R	T	Freq/Channel	
Ch Freq 2.48 GHz		Trig Free		Center Freq 2.48000000 GHz	
Occupied Bandwidth				Start Freq 2.47900000 GHz	
Ref 20 dBm #Atten 30 dB				Stop Freq 2.48100000 GHz	
				CF Step 200.000000 kHz Auto Man	
Center 2.480 000 GHz		Span 2 MHz		Freq Offset 0.00000000 Hz	
#Res BW 30 kHz		#VBW 100 kHz		#Sweep 100.5 ms (601 pts)	
Occupied Bandwidth 1.1905 MHz		Occ BW % Pwr 99.00 %		Signal Track On Off	
Transmit Freq Error -17.788 kHz		x dB -20.00 dB			
x dB Bandwidth 1.311 MHz					
File Operation Status, C:PICTURE.GIF file saved					



Appendix B: Carrier Frequency Separation

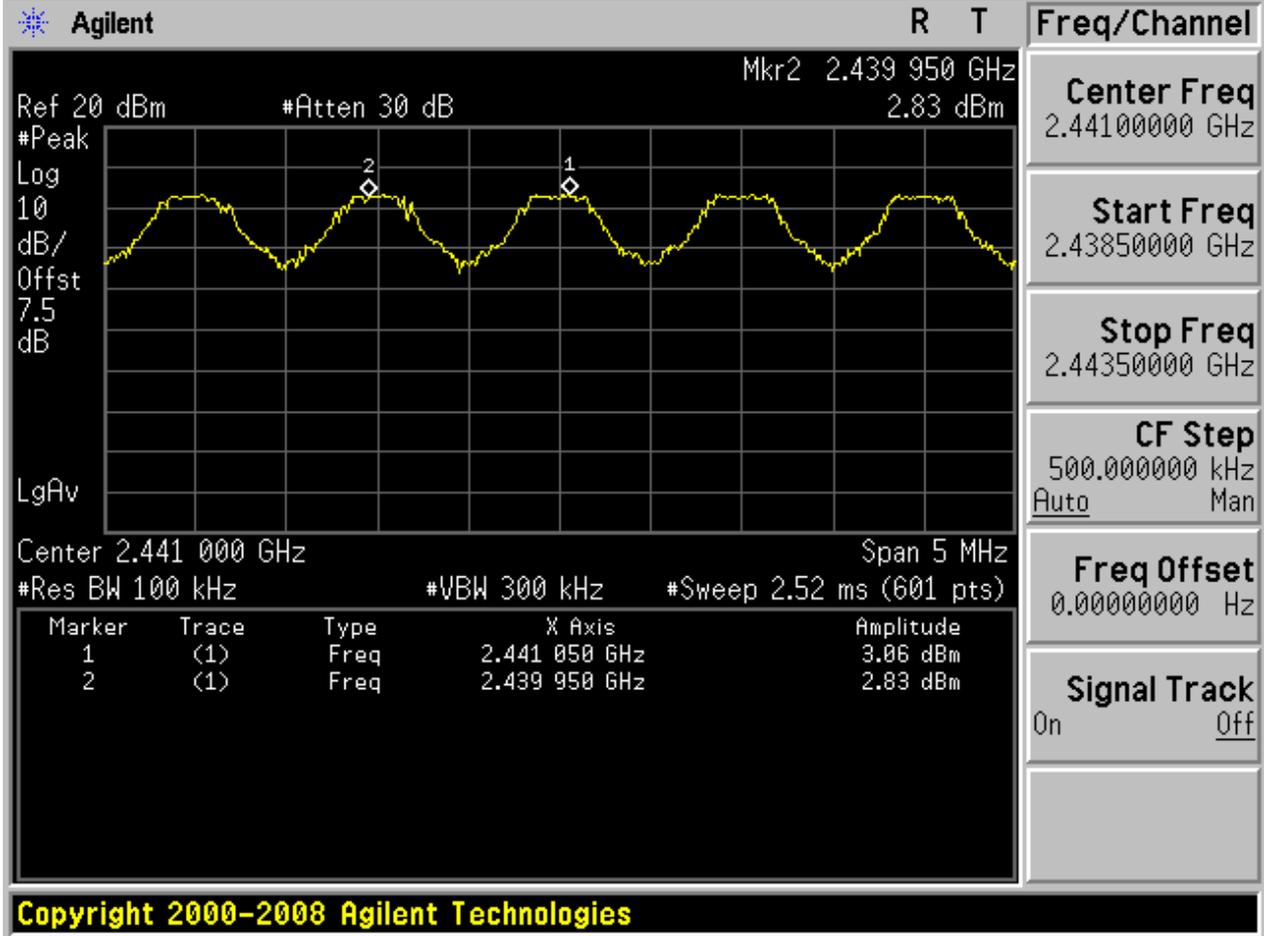


1 Result Table

EUT Conf.	Carrier Frequency Separation [MHz]	Verdict
TM1_DH5_Hop	1.10	Pass
TM2_2DH5_Hop	1.02	Pass
TM3_3DH5_Hop	1.55	Pass

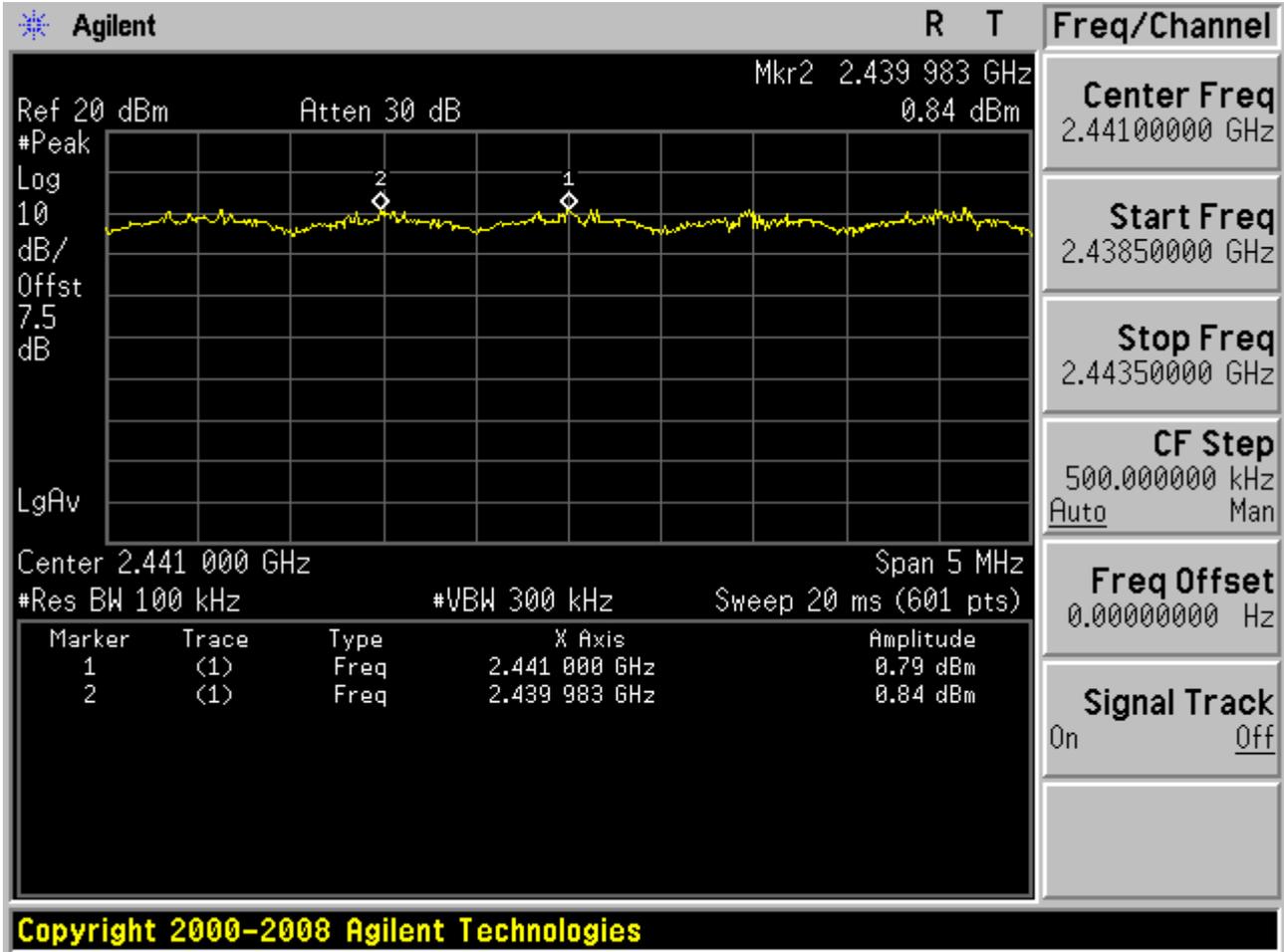
2 Test Plot

2.1 TM1_DH5_Hop



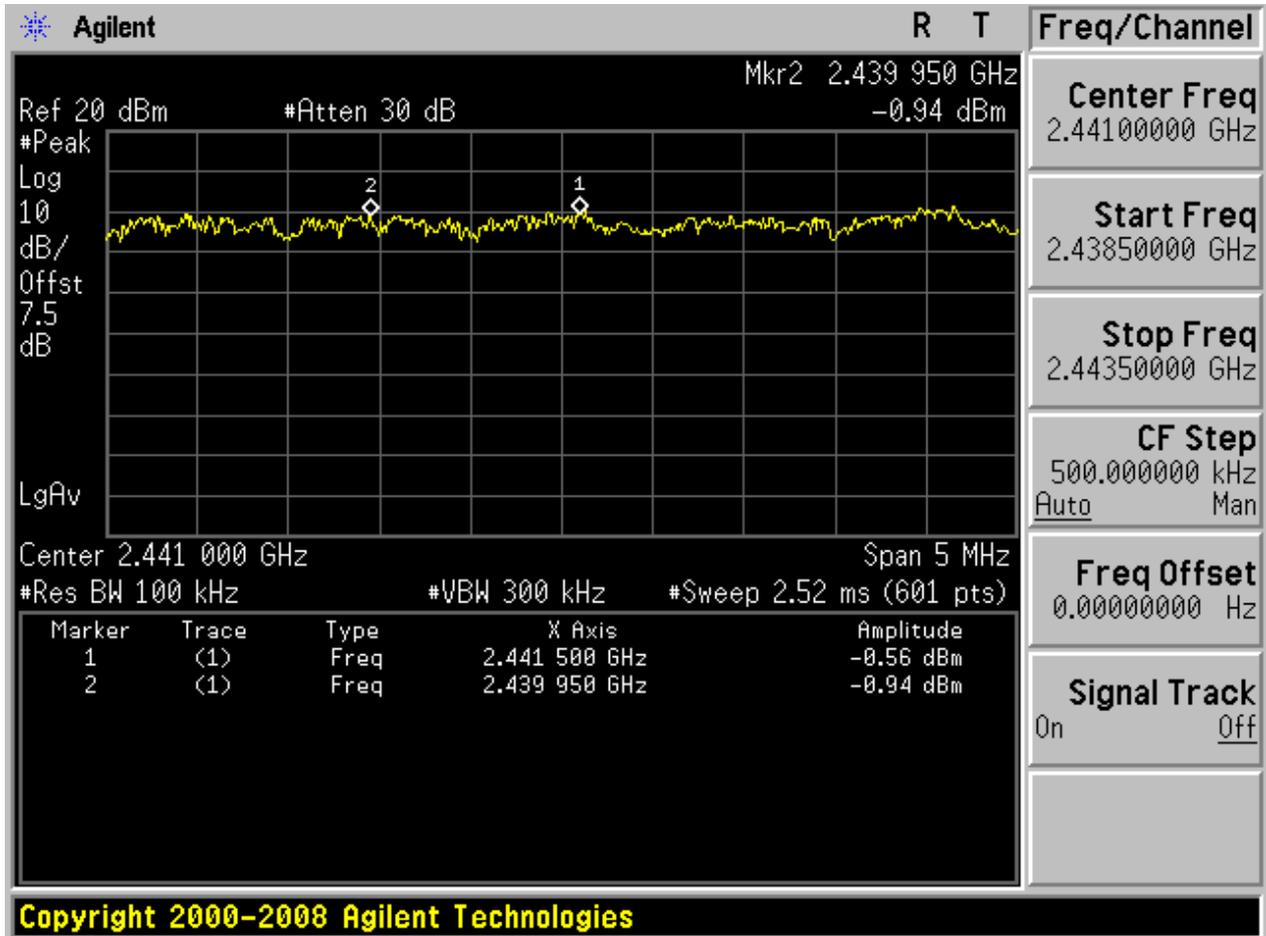


2.2 TM2_2DH5_Hop





2.3 TM3_3DH5_Hop





Appendix C: Number of Hopping Channel



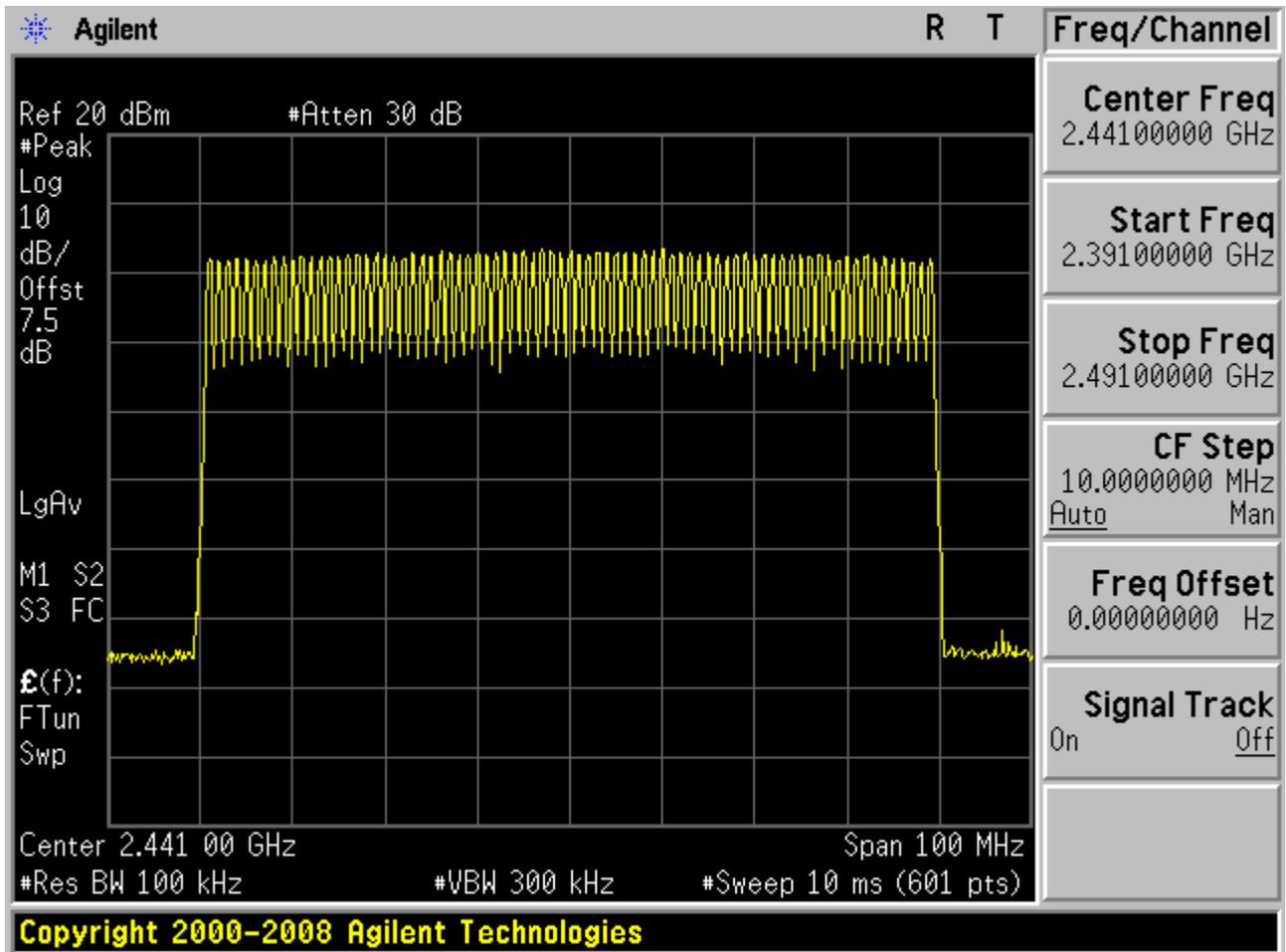
1 Result Table

EUT Conf.	Number of Hopping Channel	Verdict
TM1_DH5_Hop	79	Pass
TM2_2DH5_Hop	79	Pass
TM3_3DH5_Hop	79	Pass



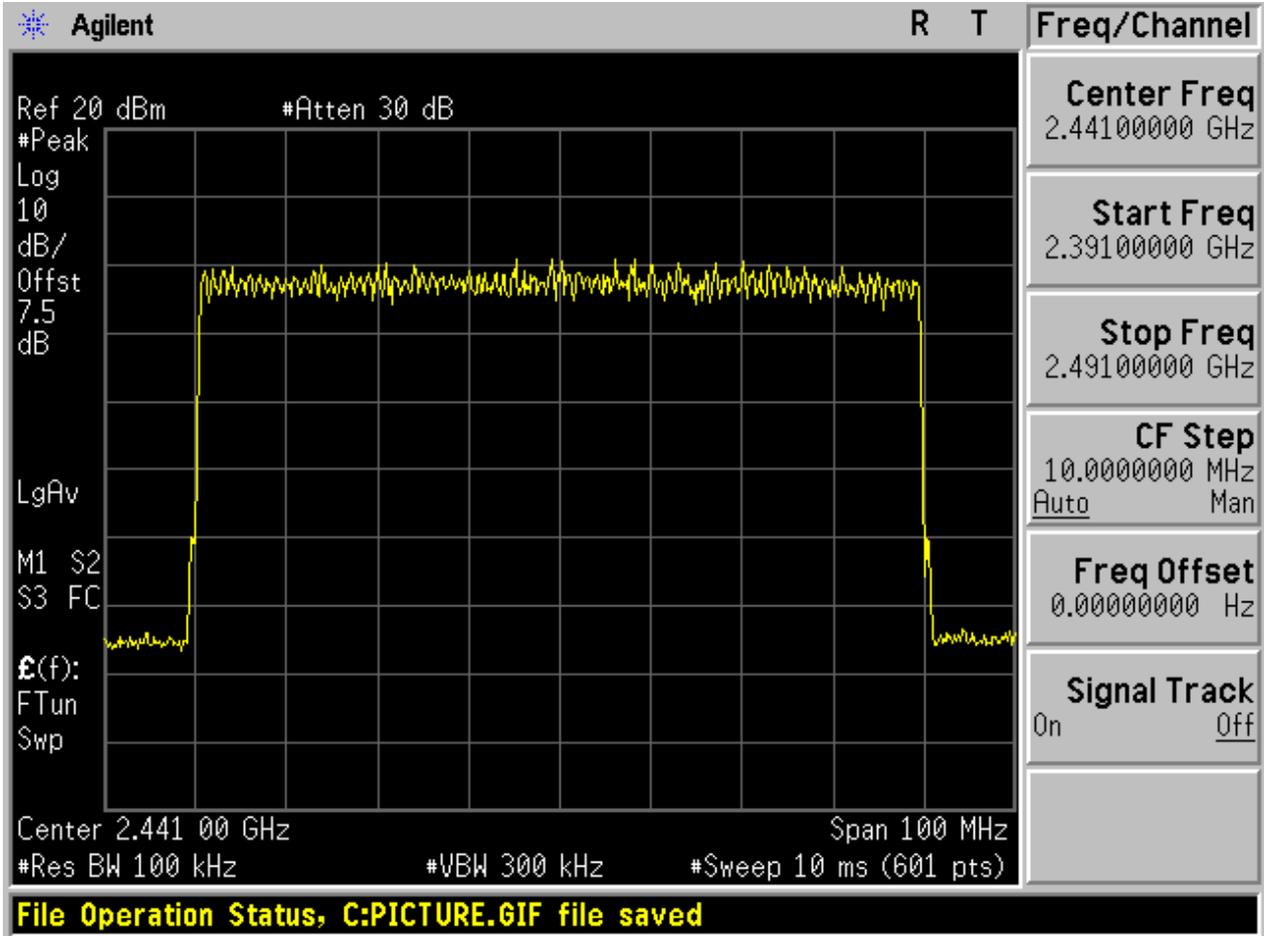
2 Test Plot

2.1 TM1_DH5_Hop



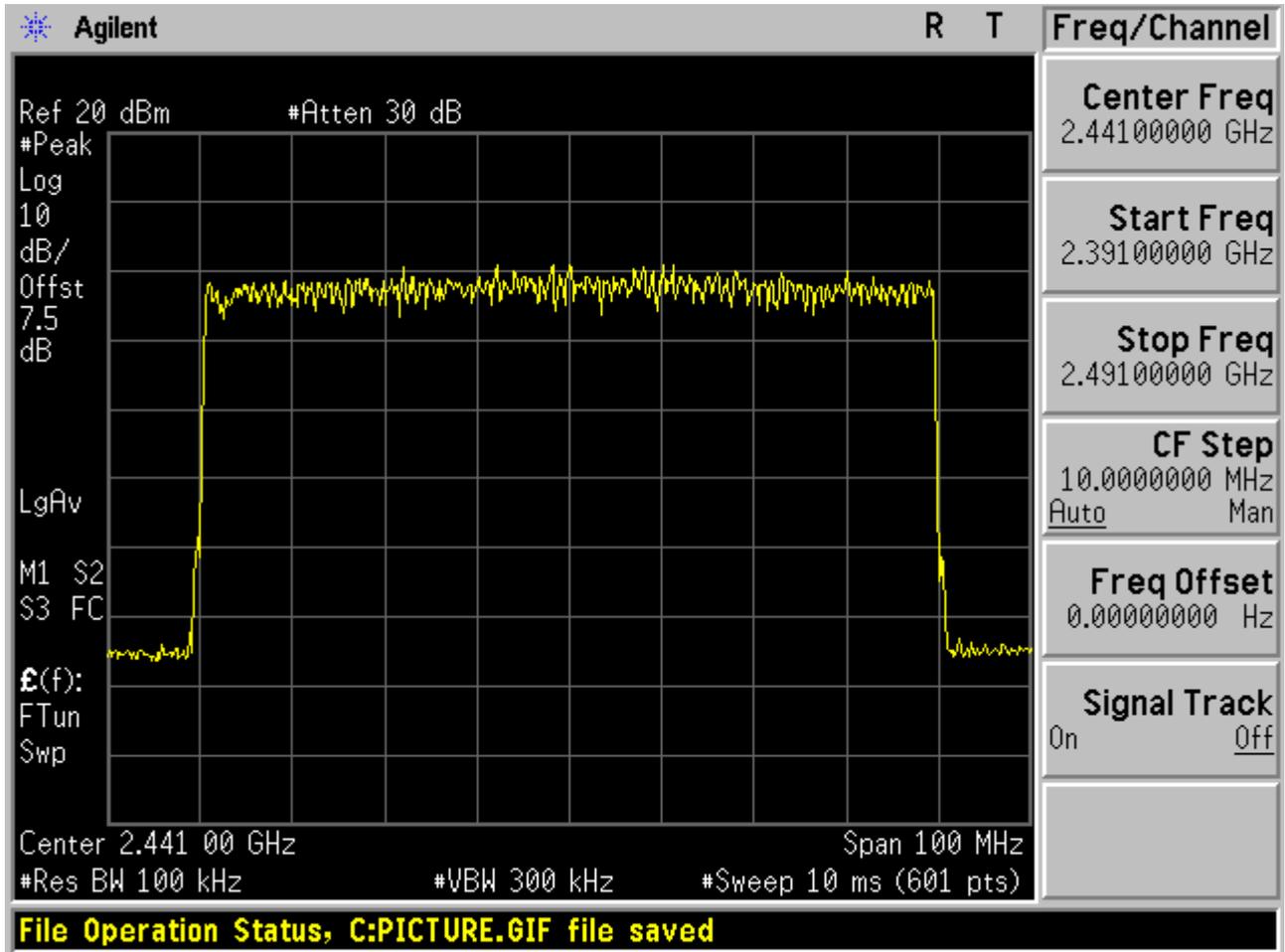


2.2 TM2_2DH5_Hop





2.3 TM3_3DH5_Hop





Appendix D: Time of Occupancy (Dwell Time)

1 Result Table

The Dwell Time = Burst Width * Total Hops. The detailed calculations are showed as follows:

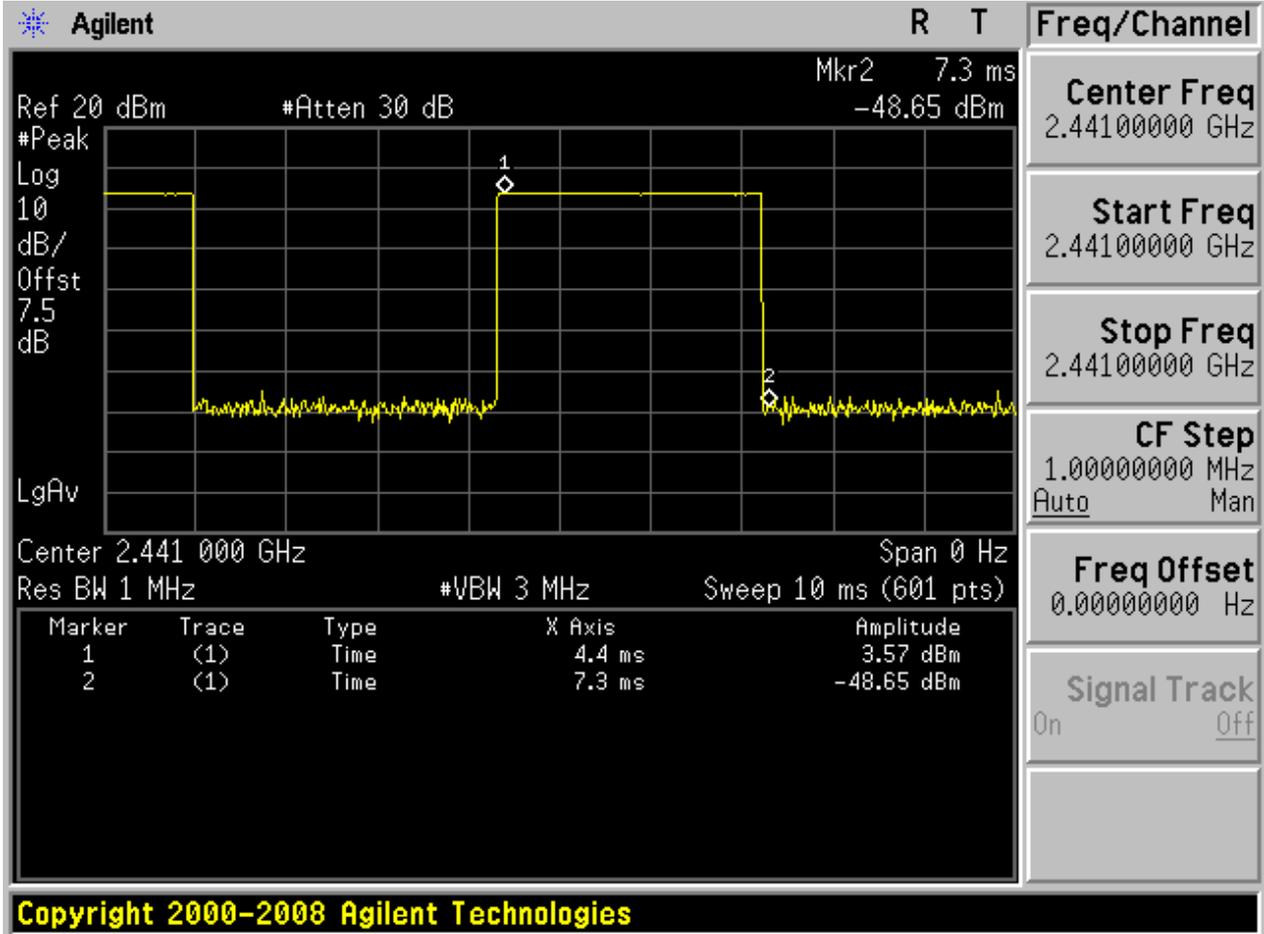
- The duration for dwell time calculation: $0.4 \text{ [s]} * \text{hopping number} = 0.4 \text{ [s]} * 79 \text{ [ch]} = 31.6 \text{ [s*ch]}$;
- The burst width [ms/hop/ch], which is directly measured, refers to the duration on one channel hop.
- The hops per second for all channels: The selected EUT Conf uses a slot type of 5-Tx&1-Rx and a hopping rate of 1600 [ch*hop/s] for all channels. So the final hopping rate for all channels is $1600 / 6 = 266.67 \text{ [ch*hop/s]}$;
- The hops per second on one channel: $266.67 \text{ [ch*hop/s]} / 79 \text{ [ch]} = 3.38 \text{ [hop/s]}$;
- The total hops for all channels within the dwell time calculation duration: $3.38 \text{ [hop/s]} * 31.6 \text{ [s*ch]} = 106.67 \text{ [hop*ch]}$;
- The dwell time for all channels hopping: $106.67 \text{ [hop*ch]} * \text{Burst Width [ms/hop/ch]}$.

EUT Conf.	Burst Width [ms/hop/ch]	Total Hops [hop*ch]	Dwell Time [ms]	Verdict
TM1_DH5_Ch39	2.9	106.67	0.309	Pass
TM2_2DH5_Ch39	2.9	106.67	0.309	Pass
TM3_3DH5_Ch39	2.9	106.67	0.309	Pass

2 Test Plot

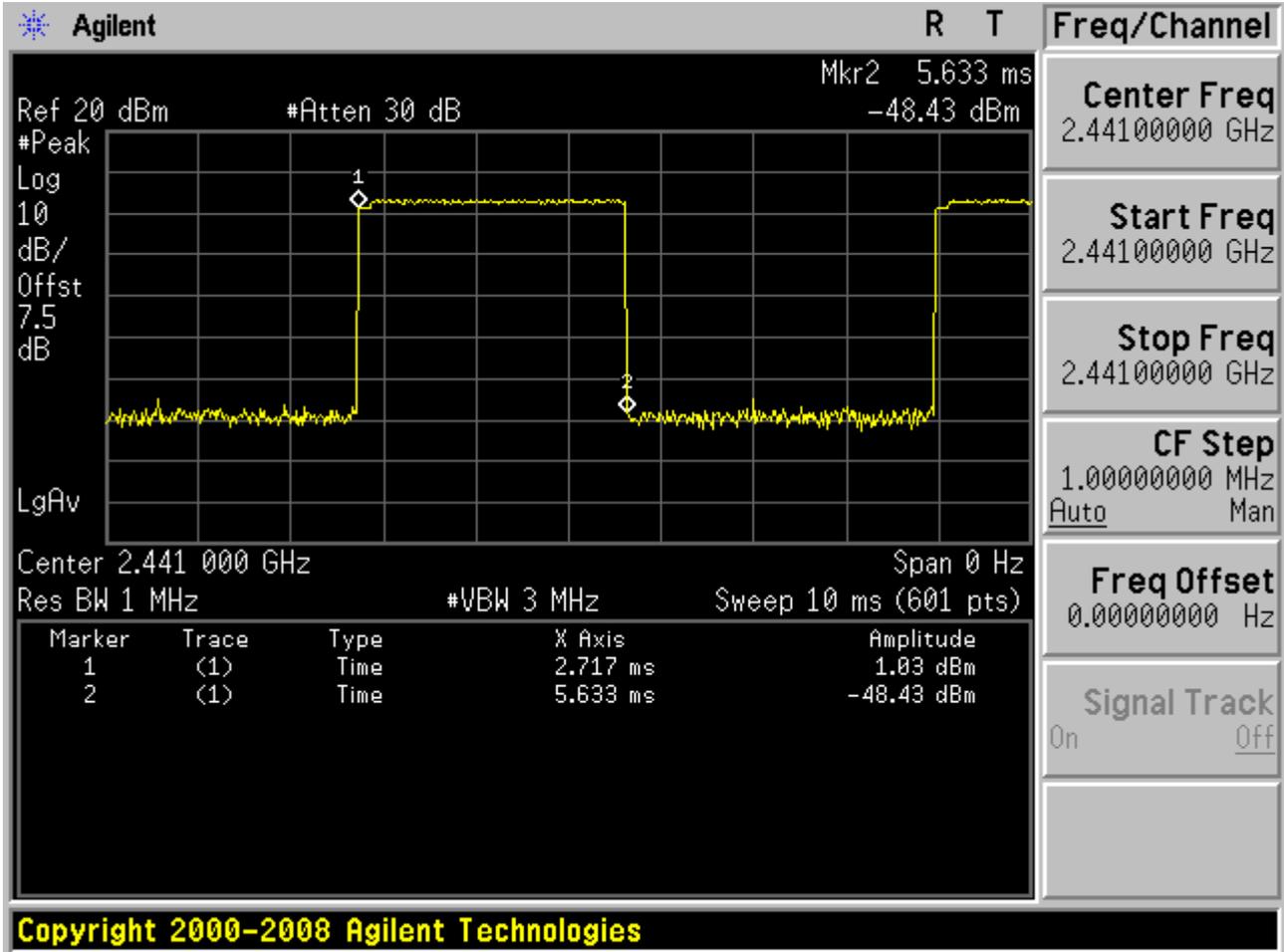
NOTE: The test plots are only for Burst Width measurements.

2.1 TM1_DH5_Ch39

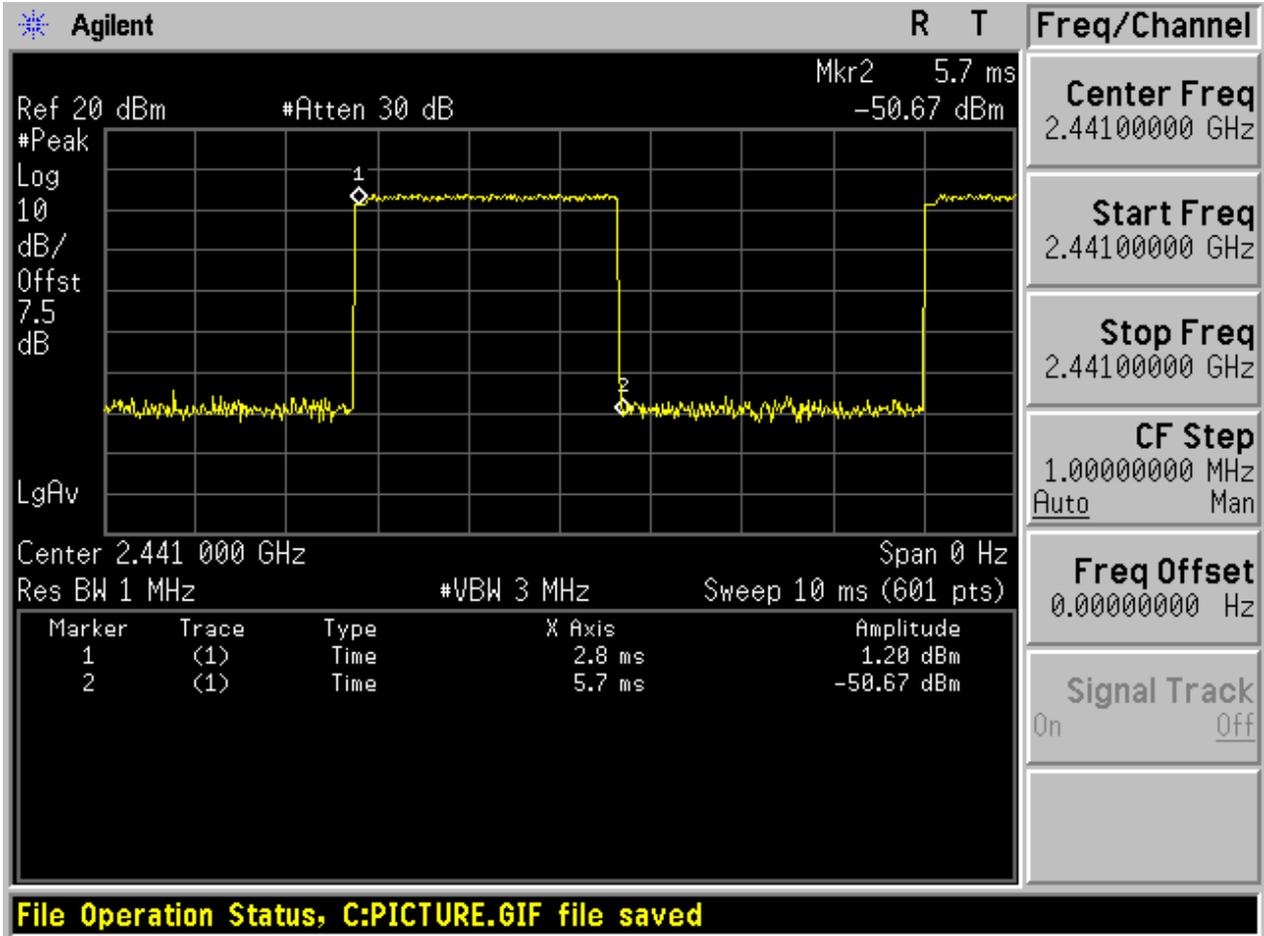




2.2 TM2_2DH5_Ch39



2.3 TM3_3DH5_Ch39





Appendix E: Maximum Peak Conducted Output Power



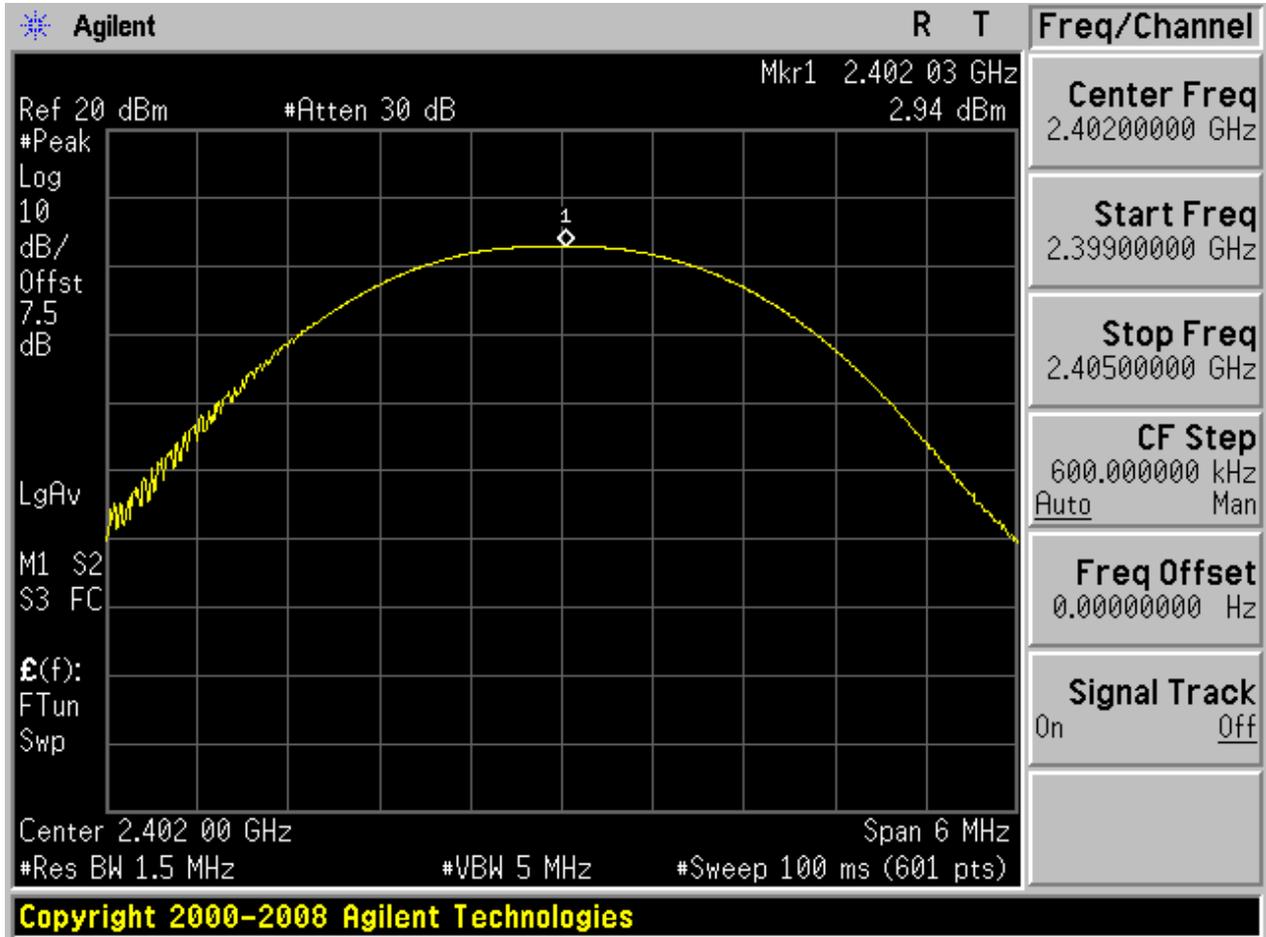
1 Result Table

EUT Conf.	Max. Peak Power [dBm]	Verdict
TM1_DH5_Ch0	2.94	Pass
TM1_DH5_Ch39	4.07	Pass
TM1_DH5_Ch78	2.78	Pass
TM2_2DH5_Ch0	2.77	Pass
TM2_2DH5_Ch39	3.86	Pass
TM2_2DH5_Ch78	2.56	Pass
TM3_3DH5_Ch0	3.29	Pass
TM3_3DH5_Ch39	4.18	Pass
TM3_3DH5_Ch78	3.11	Pass



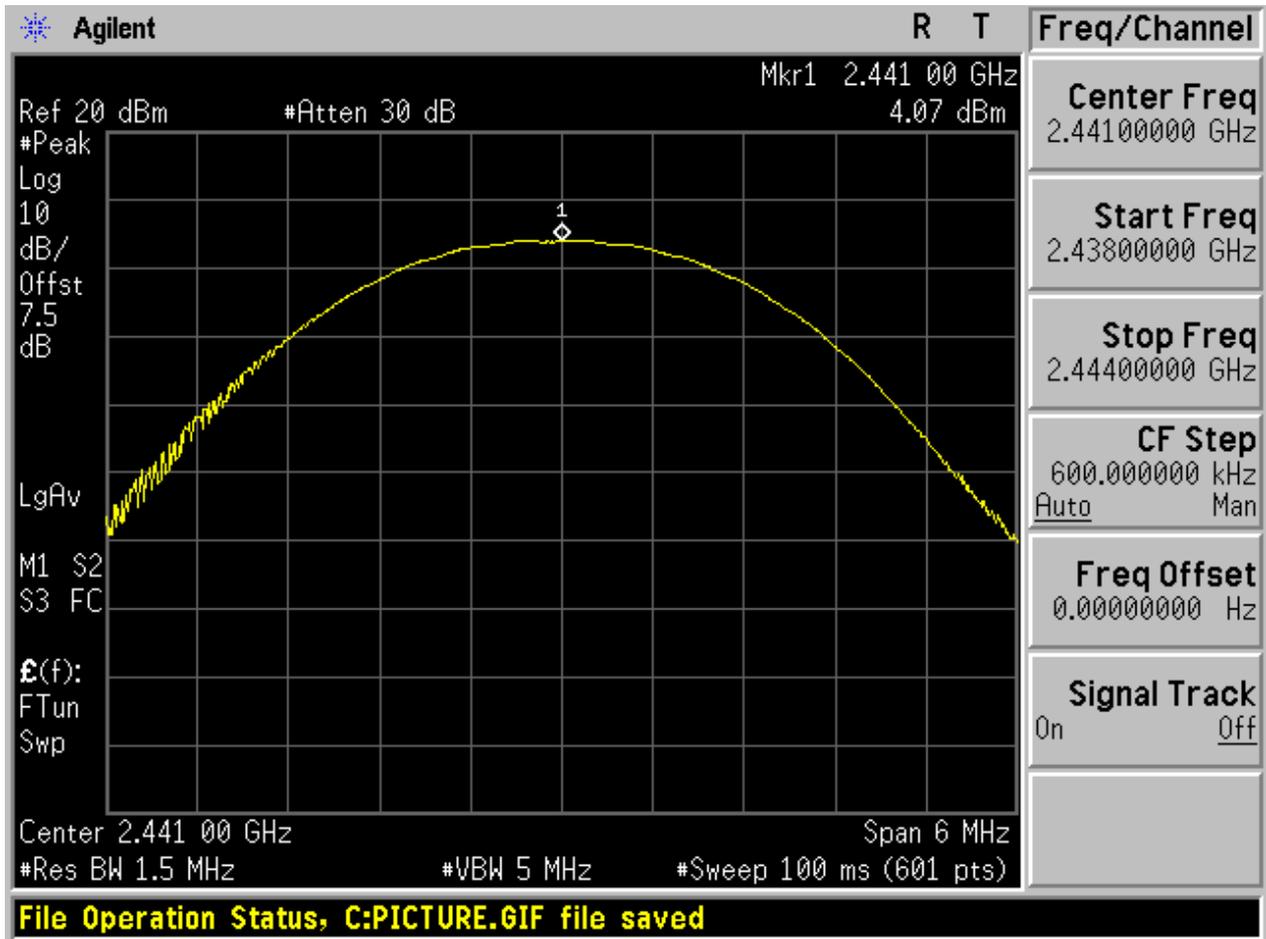
2 Test Plot

2.1 TM1_DH5_Ch0



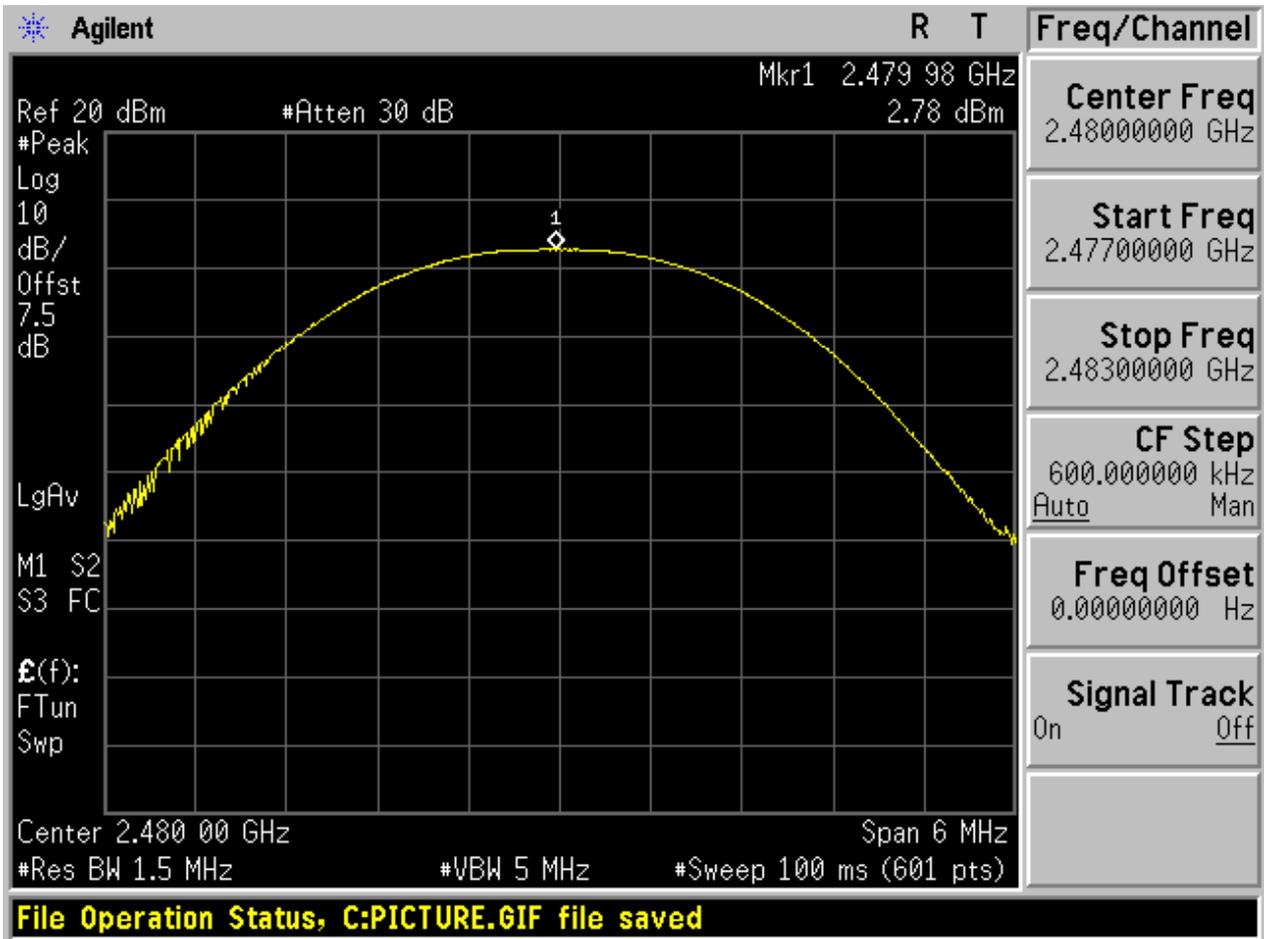


2.2 TM1_DH5_Ch39



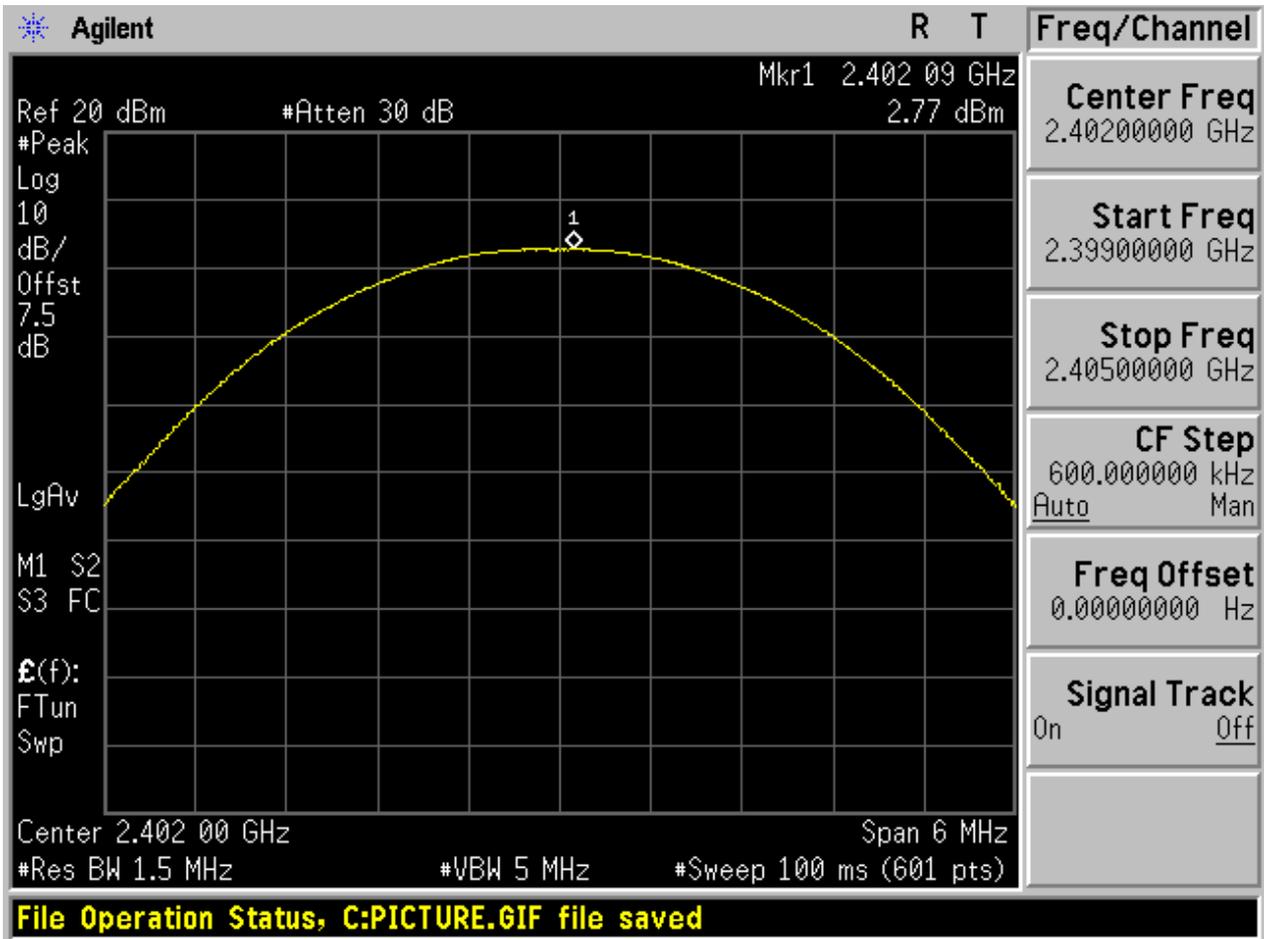


2.3 TM1_DH5_Ch78



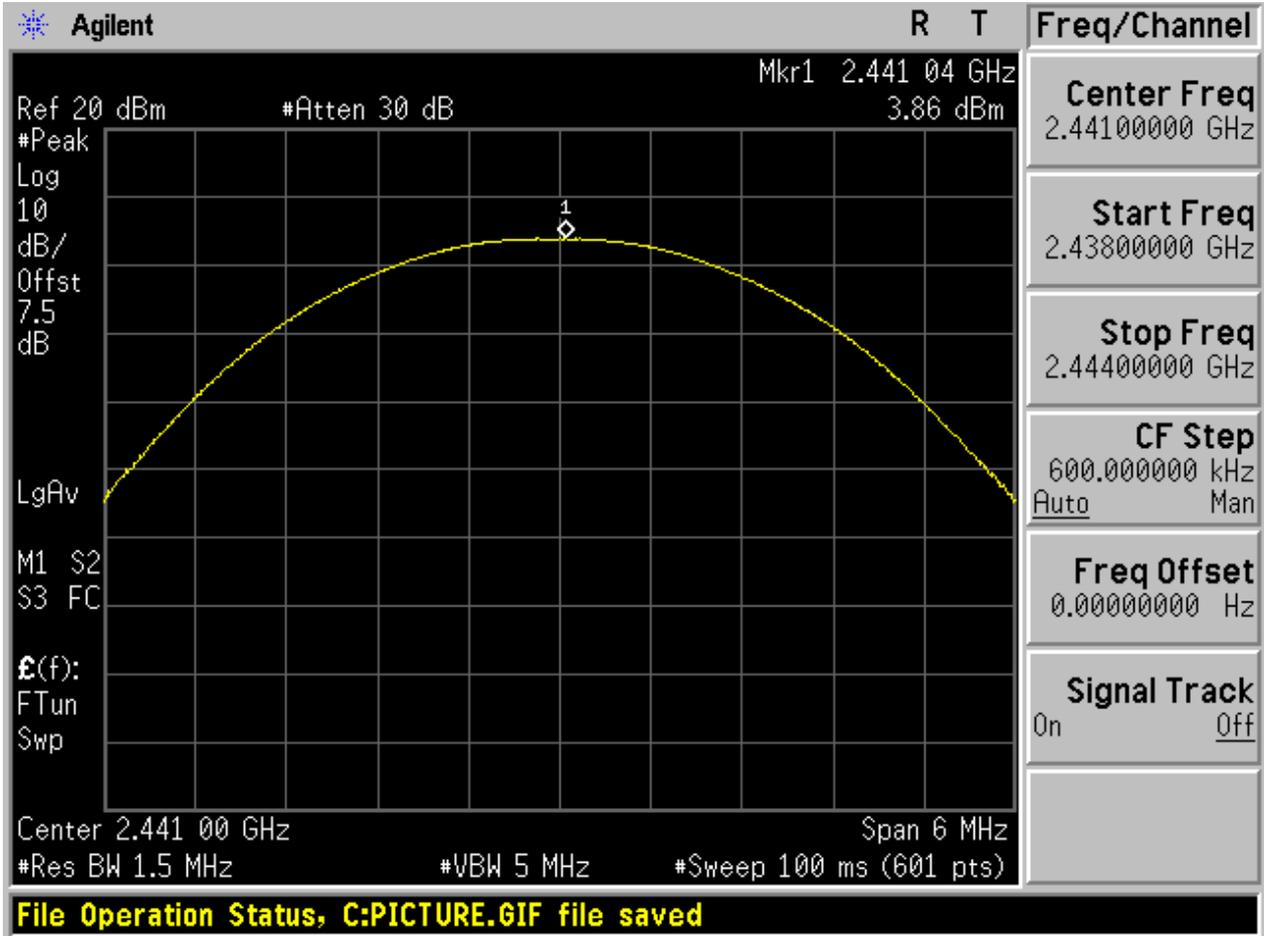


2.4 TM2_2DH5_Ch0

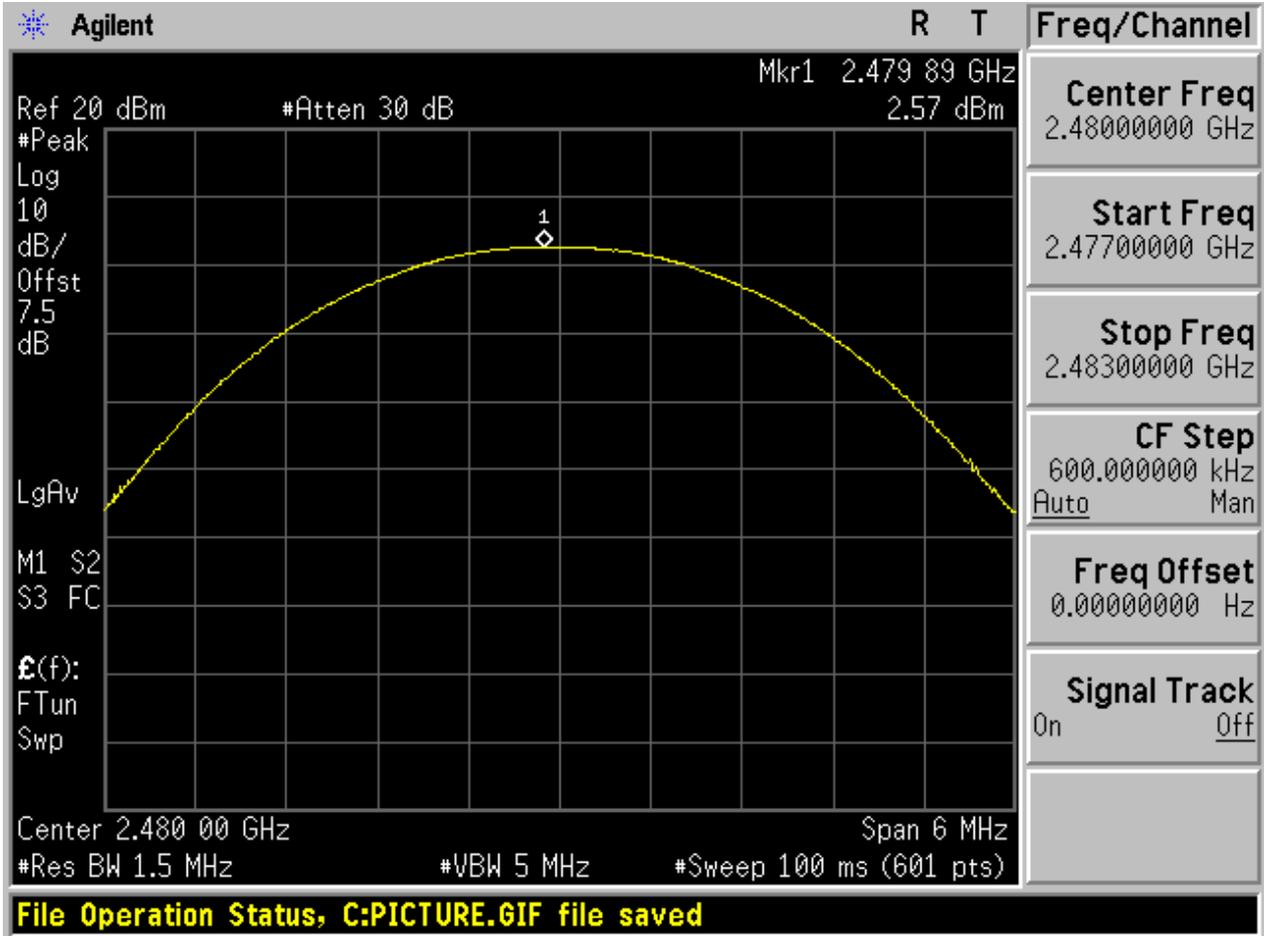




2.5 TM2_2DH5_Ch39

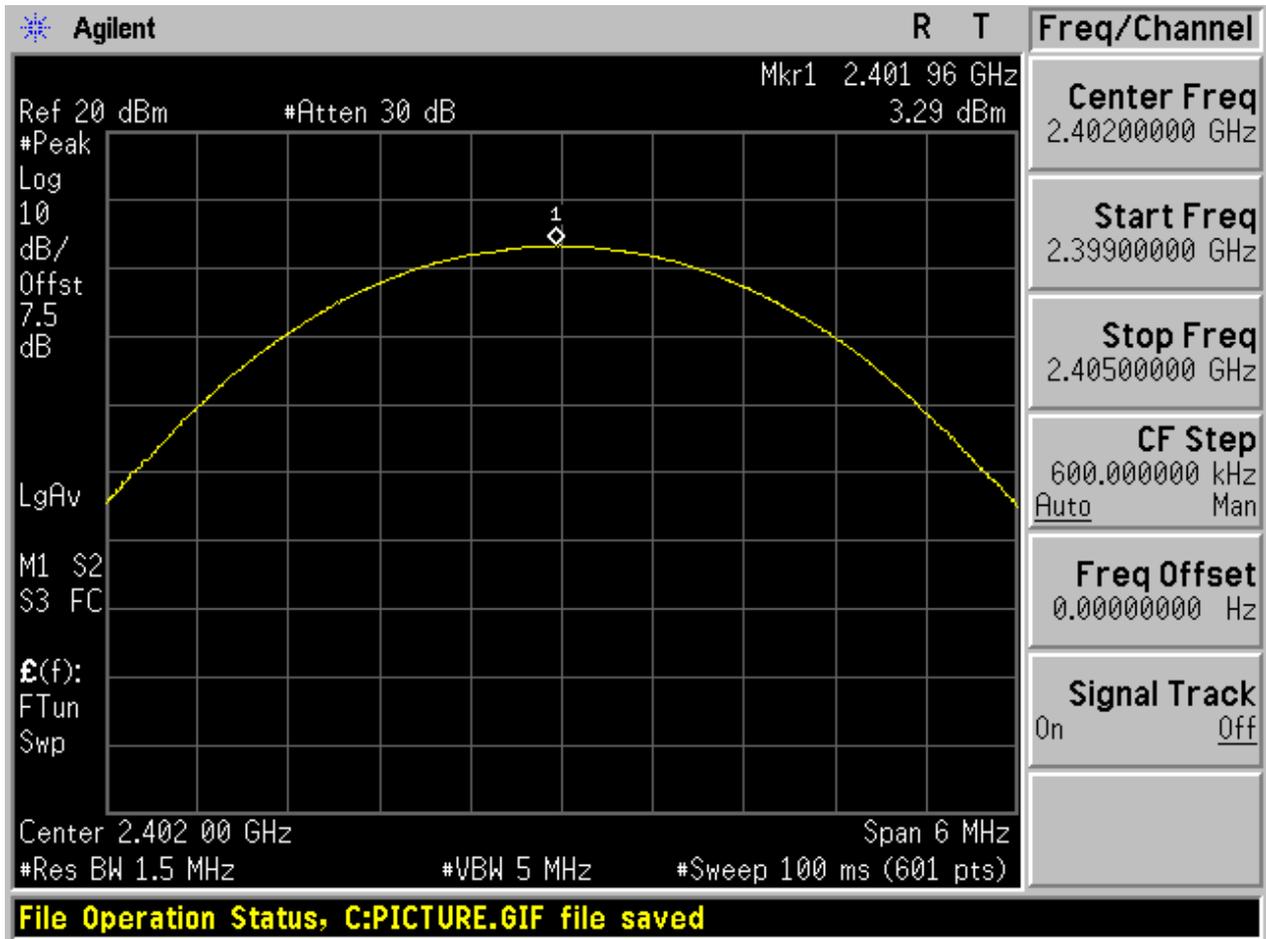


2.6 TM2_2DH5_Ch78



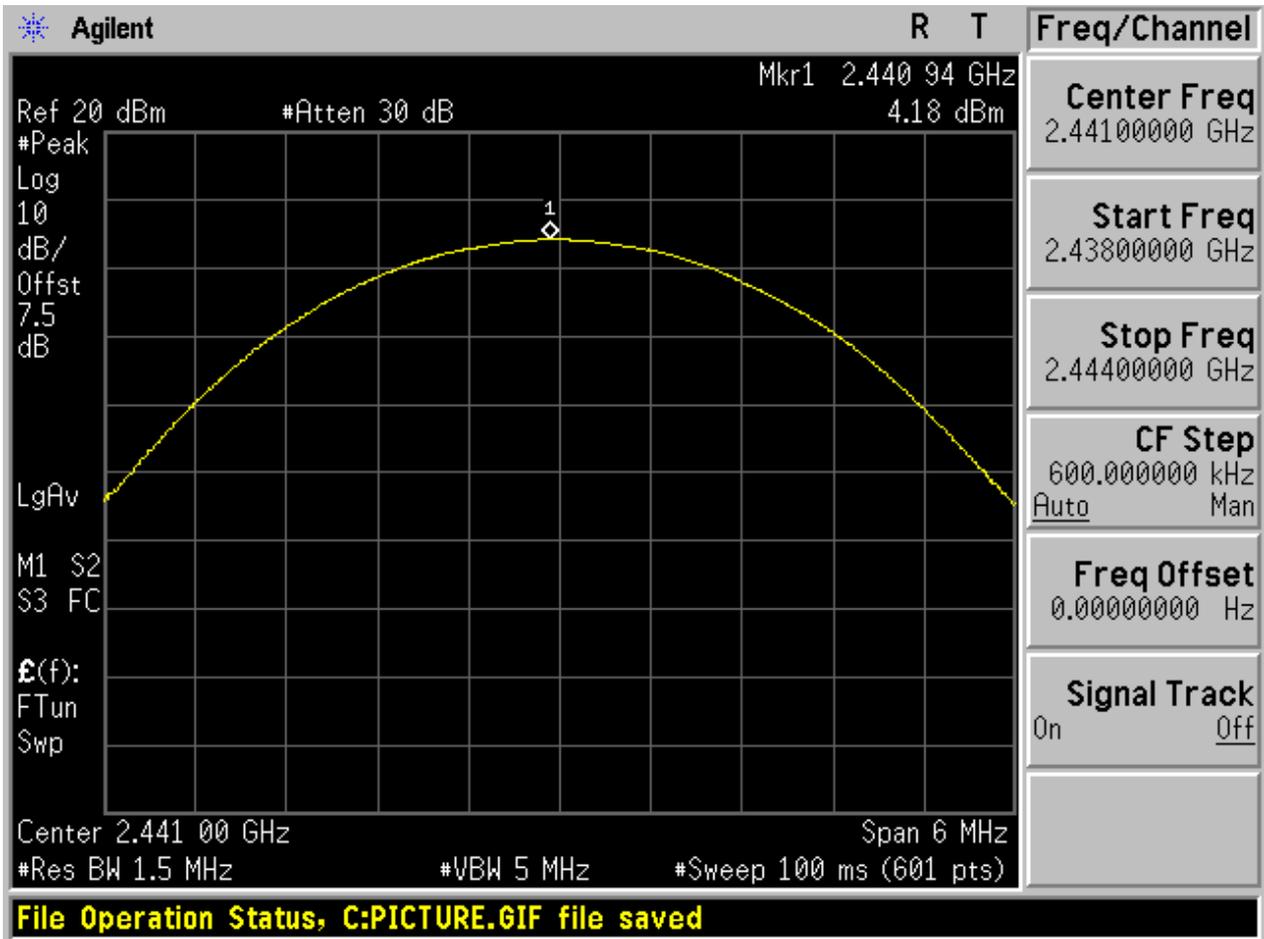


2.7 TM3_3DH5_Ch0



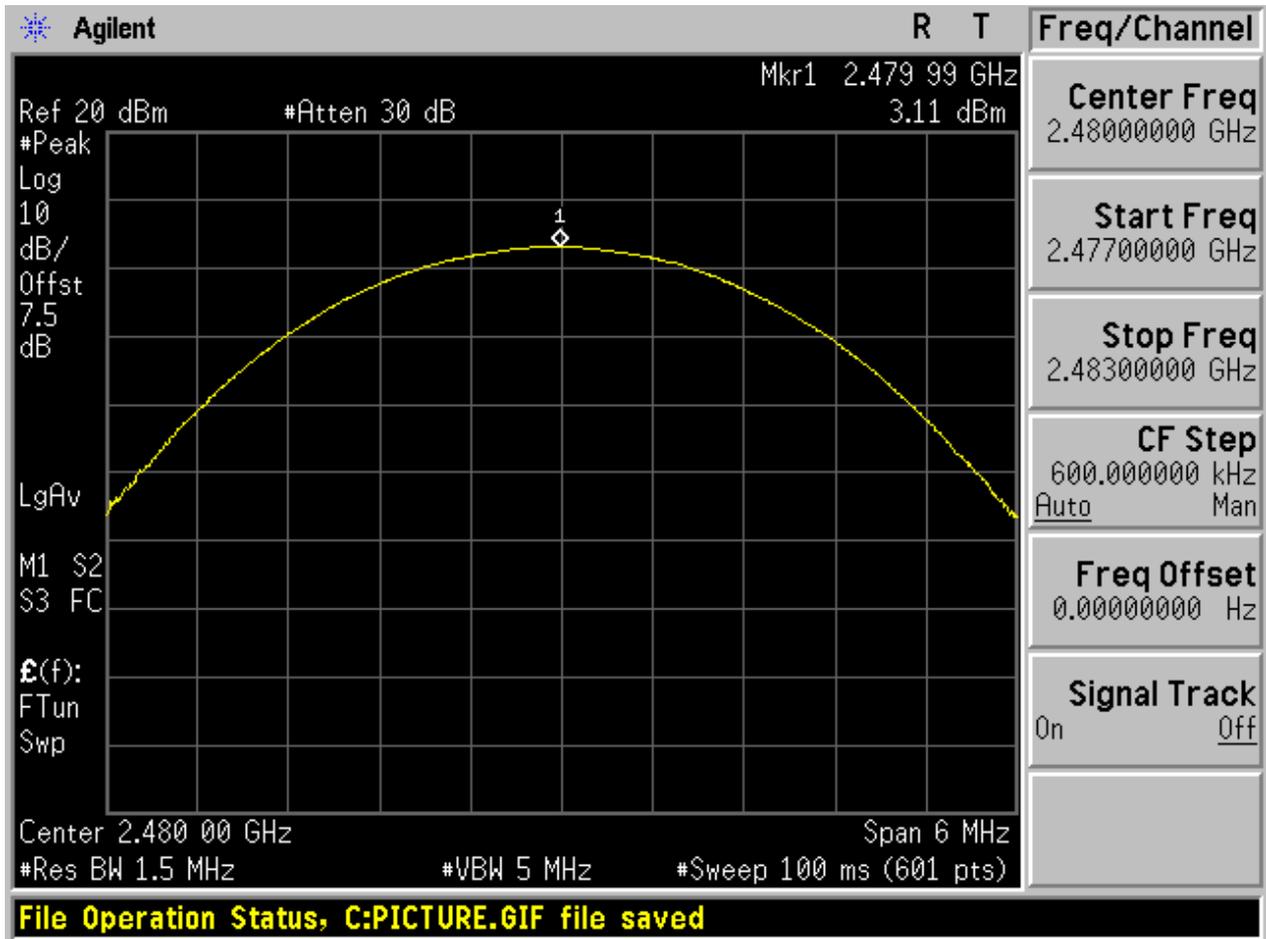


2.8 TM3_3DH5_Ch39





2.9 TM3_3DH5_Ch78





Appendix F: Band edge spurious emission

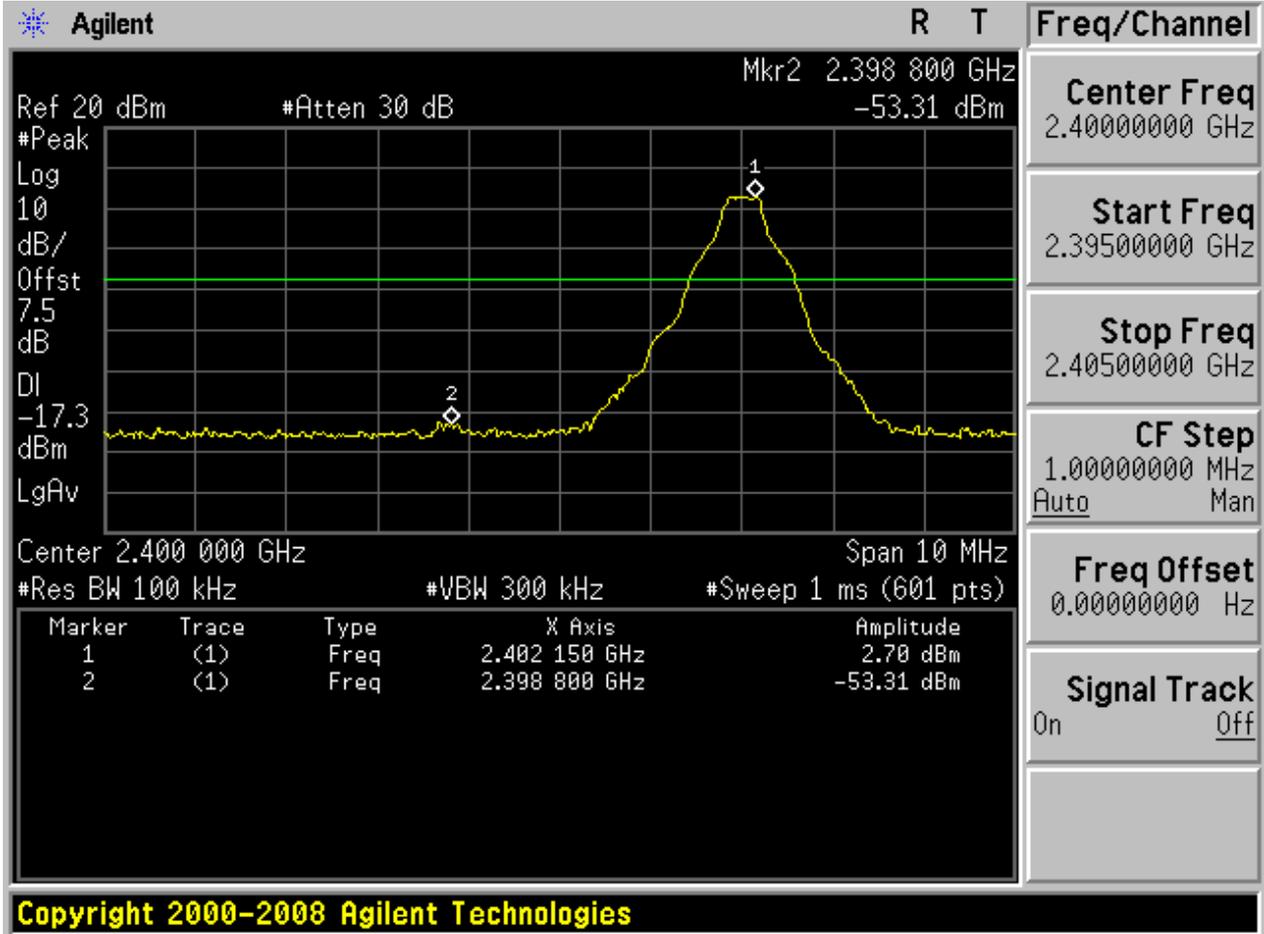
**1 Result Table**

EUT Conf.	Channel No.	Carrier Frequency [MHz]	Max. Spurious Level [dBm]	Frequency Hopping	Carrier Power [dBm]	Limit [dBm]	Result
TM1_DH5 _Ch0	0	2402	-53.31	Off	2.70	-17.30	Pass
	-	-	-53.90	On	2.59	-17.41	Pass
TM1_DH5 _Ch78	78	2480	-53.76	Off	2.46	-17.54	Pass
	-	-	-54.21	On	2.00	-18.00	Pass
TM2_2DH 5_Ch0	0	2402	-52.96	Off	0.27	-19.73	Pass
	-	-	-54.10	On	-0.37	-20.37	Pass
TM2_2DH 5_Ch78	78	2480	-53.62	Off	0.07	-19.93	Pass
	-	-	-54.45	On	-1.83	-21.83	Pass
TM3_3DH 5_Ch0	0	2402	-52.70	Off	0.29	-19.71	Pass
	-	-	-54.96	On	0.07	-19.93	Pass
TM3_3DH 5_Ch78	78	2480	-53.17	Off	-0.07	-20.07	Pass
	-	-	-54.41	On	-0.05	-20.05	Pass

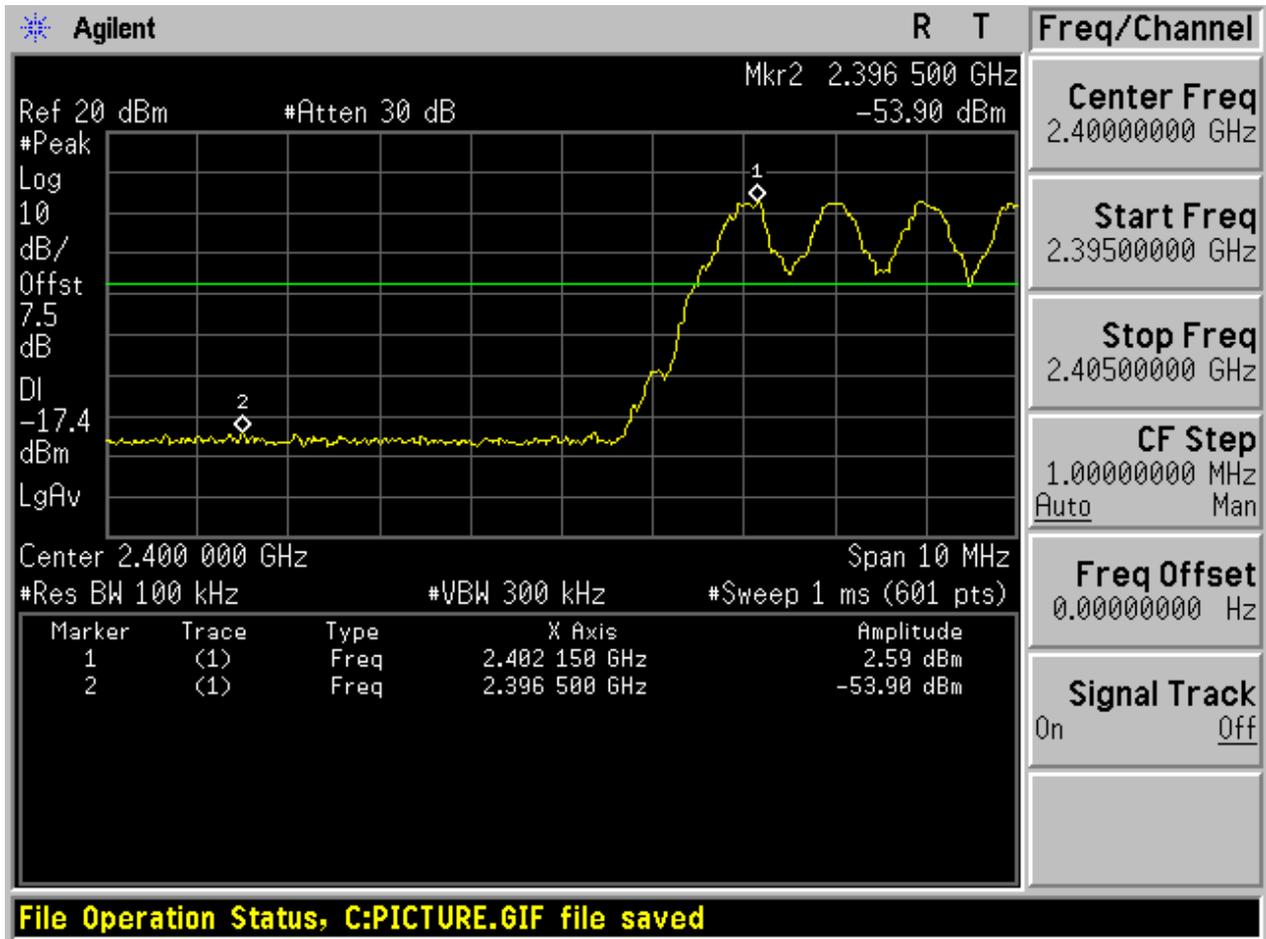
2 Test Plot

2.1 TM1_DH5_Ch0

No hopping



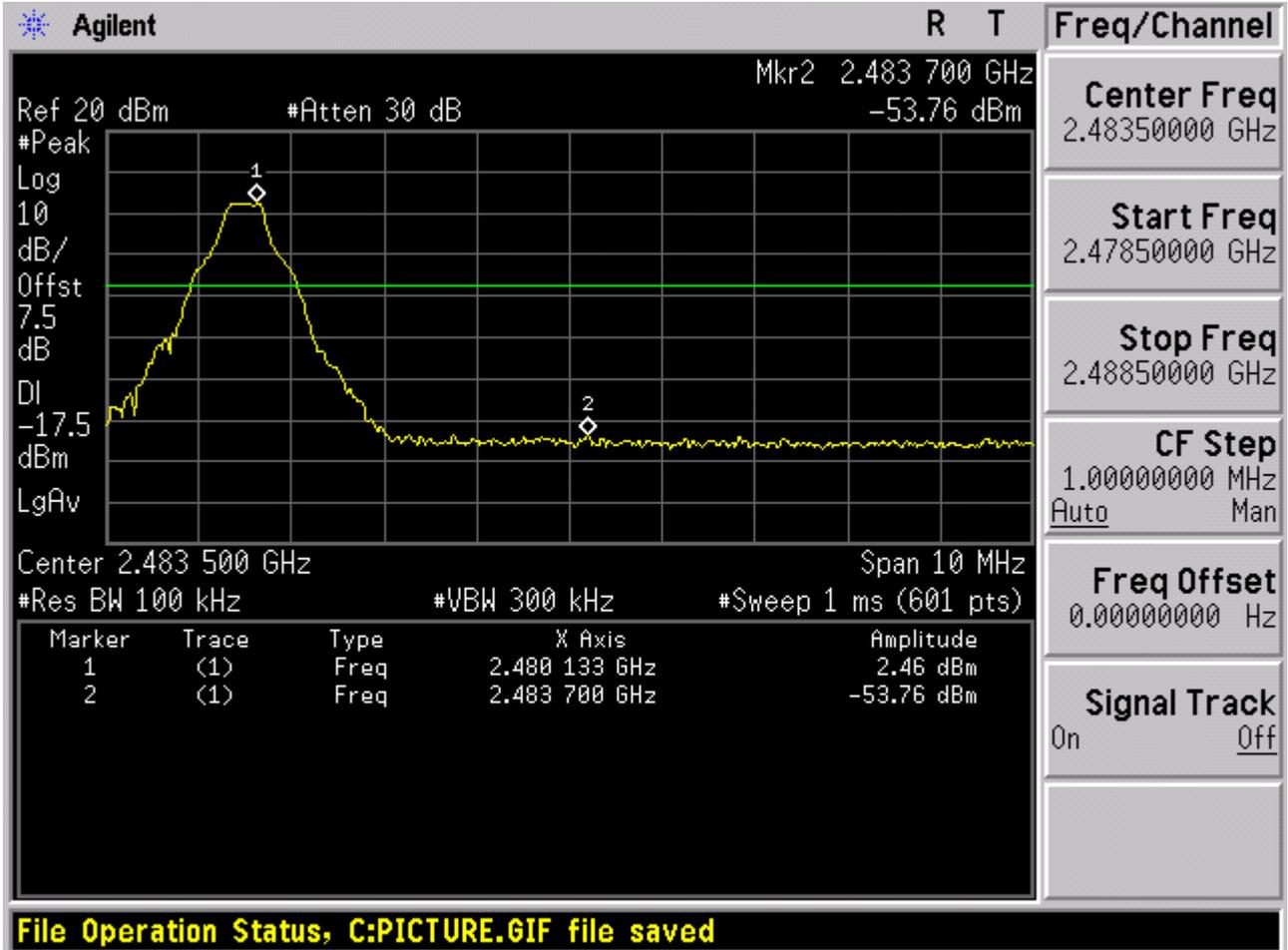
With hopping



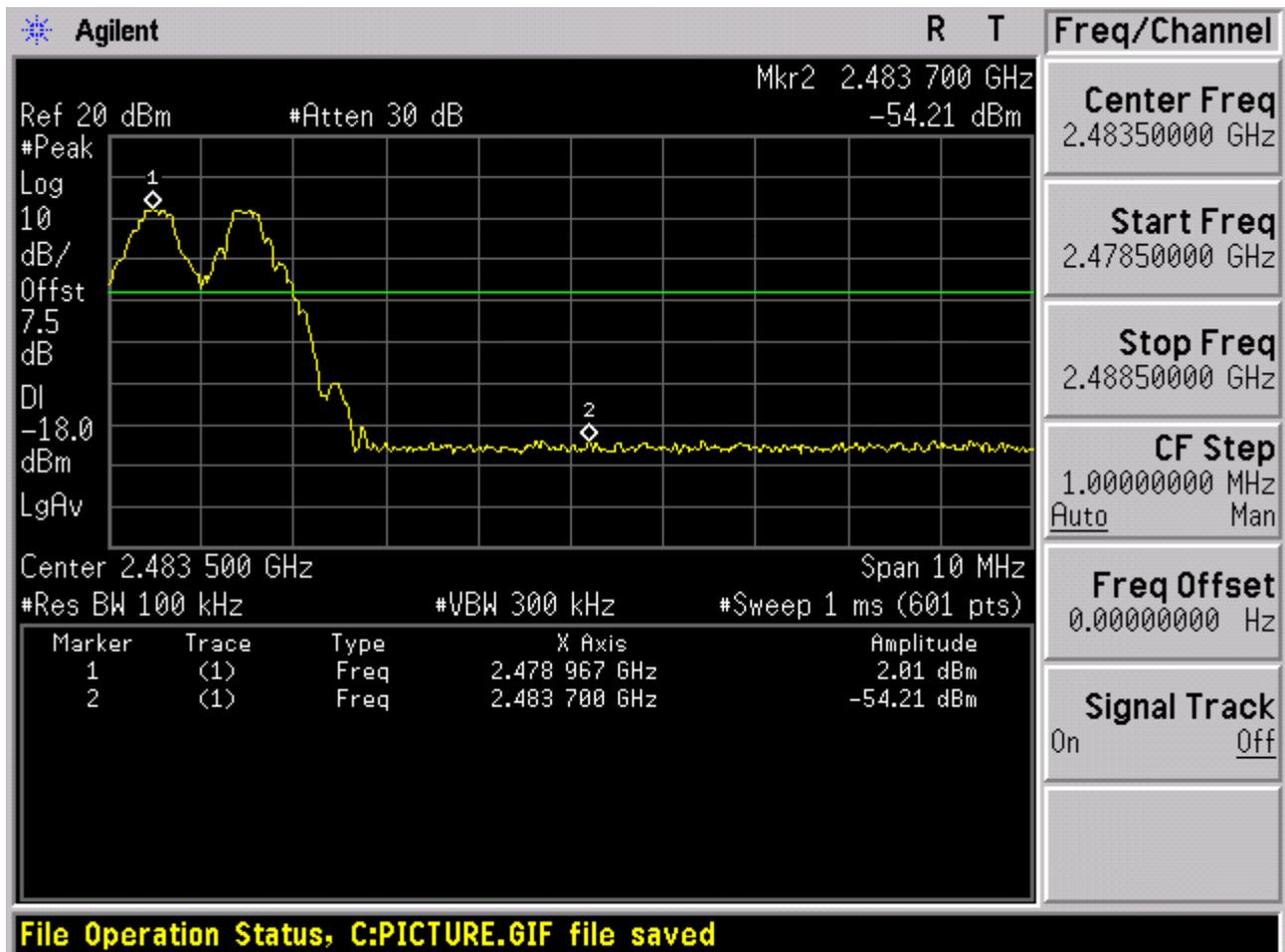


2.2 TM1_DH5_Ch78

No hopping

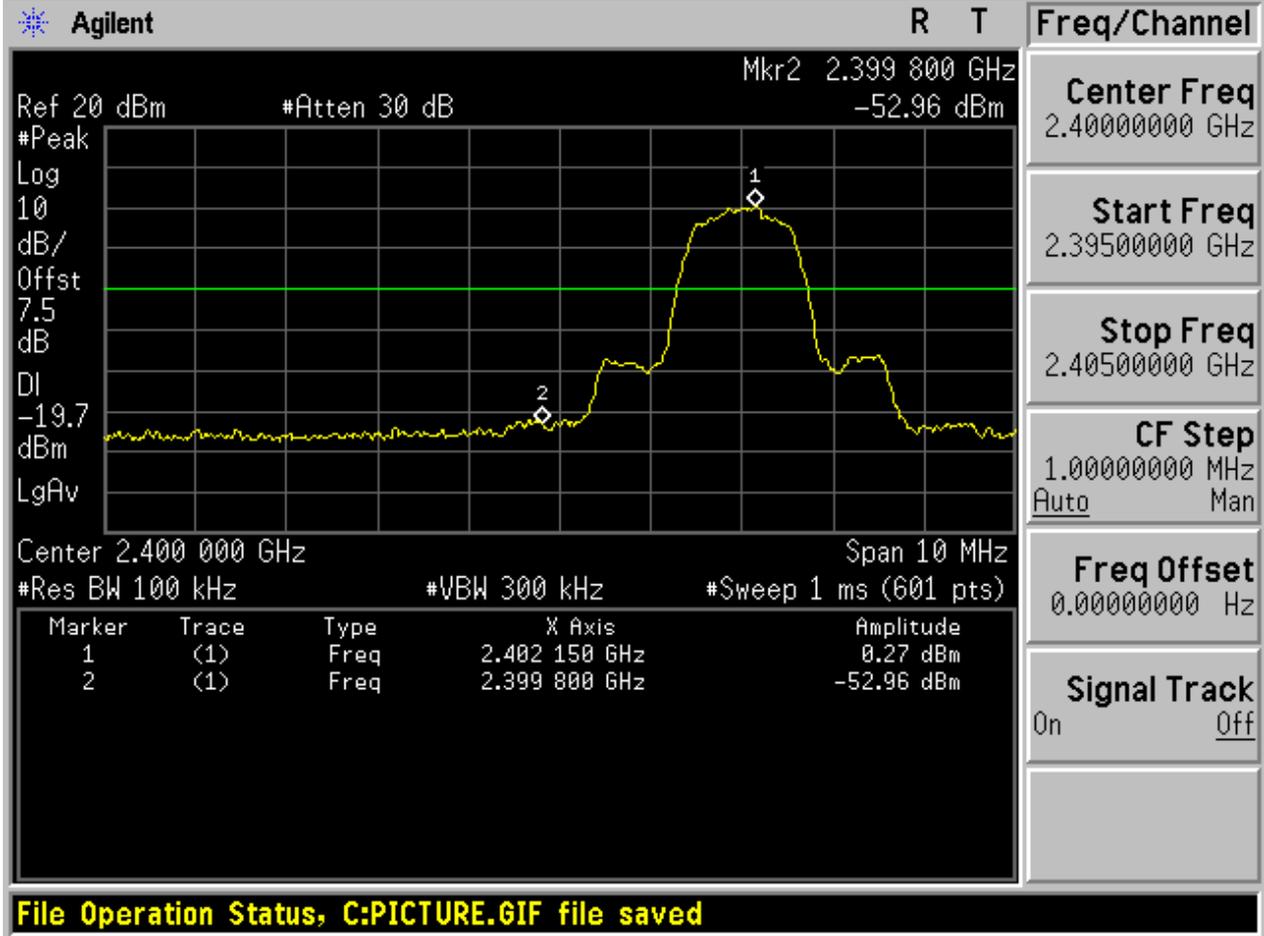


With hopping

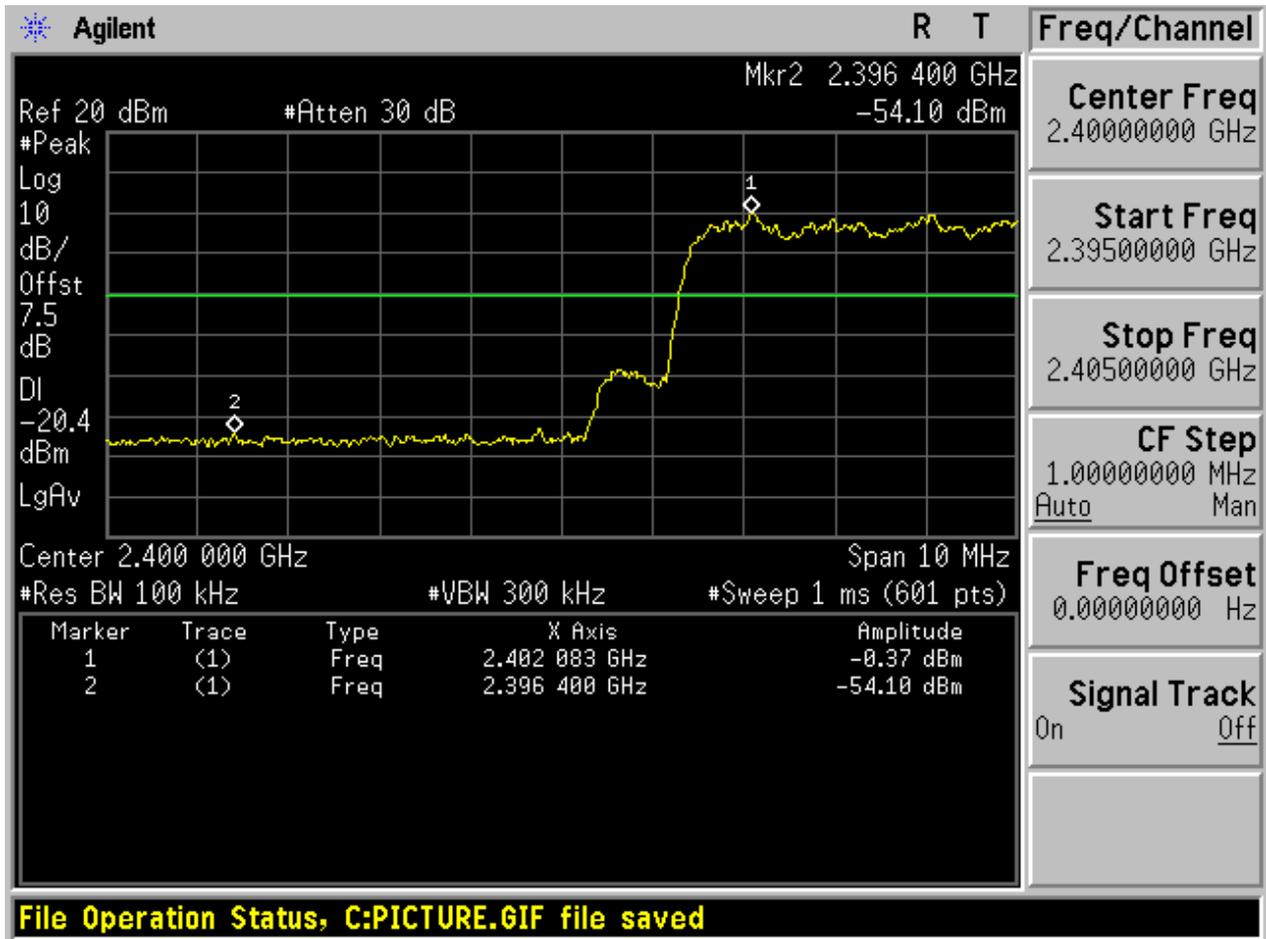


2.3 TM2_2DH5_Ch0

No hopping



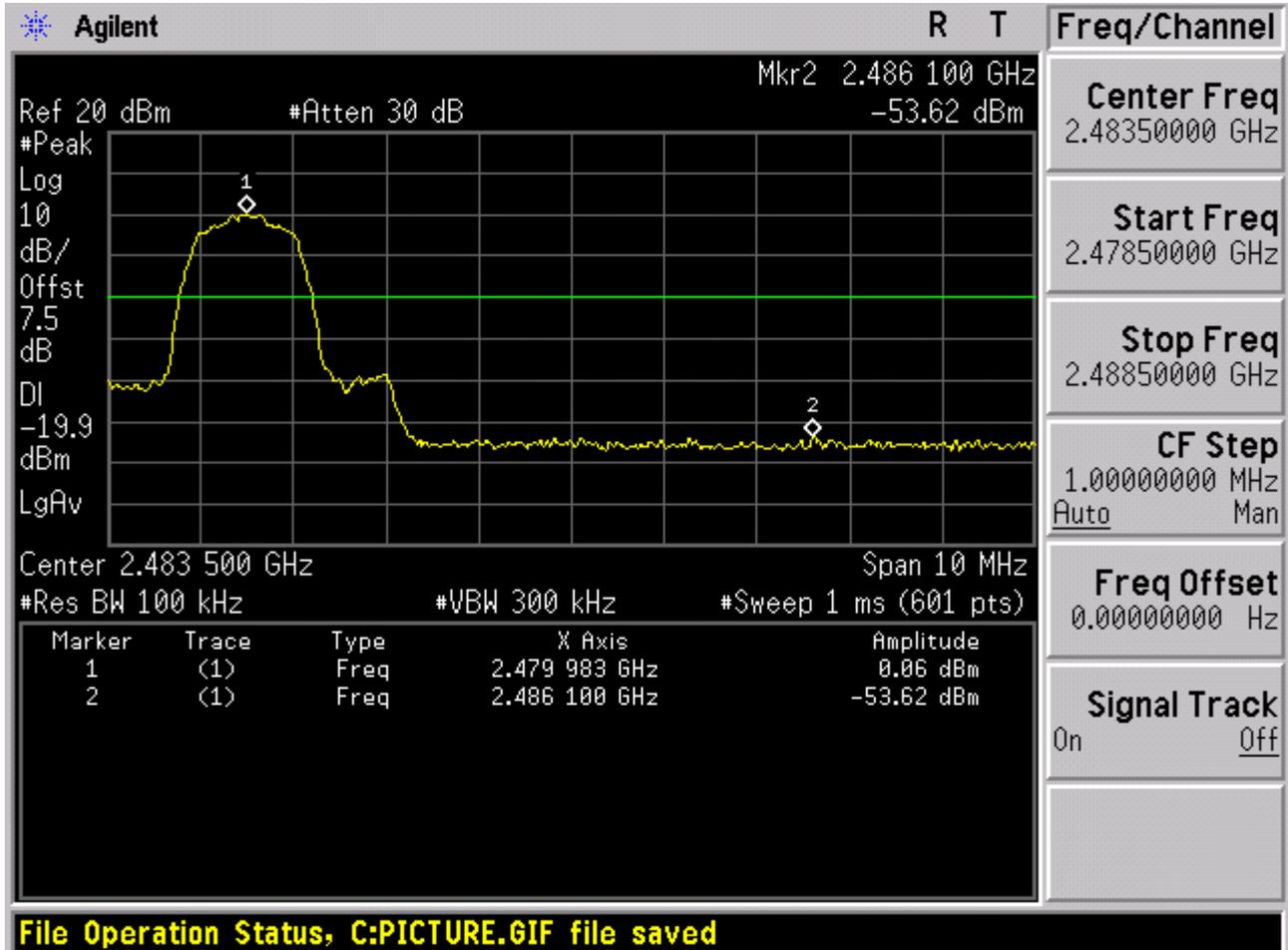
With hopping



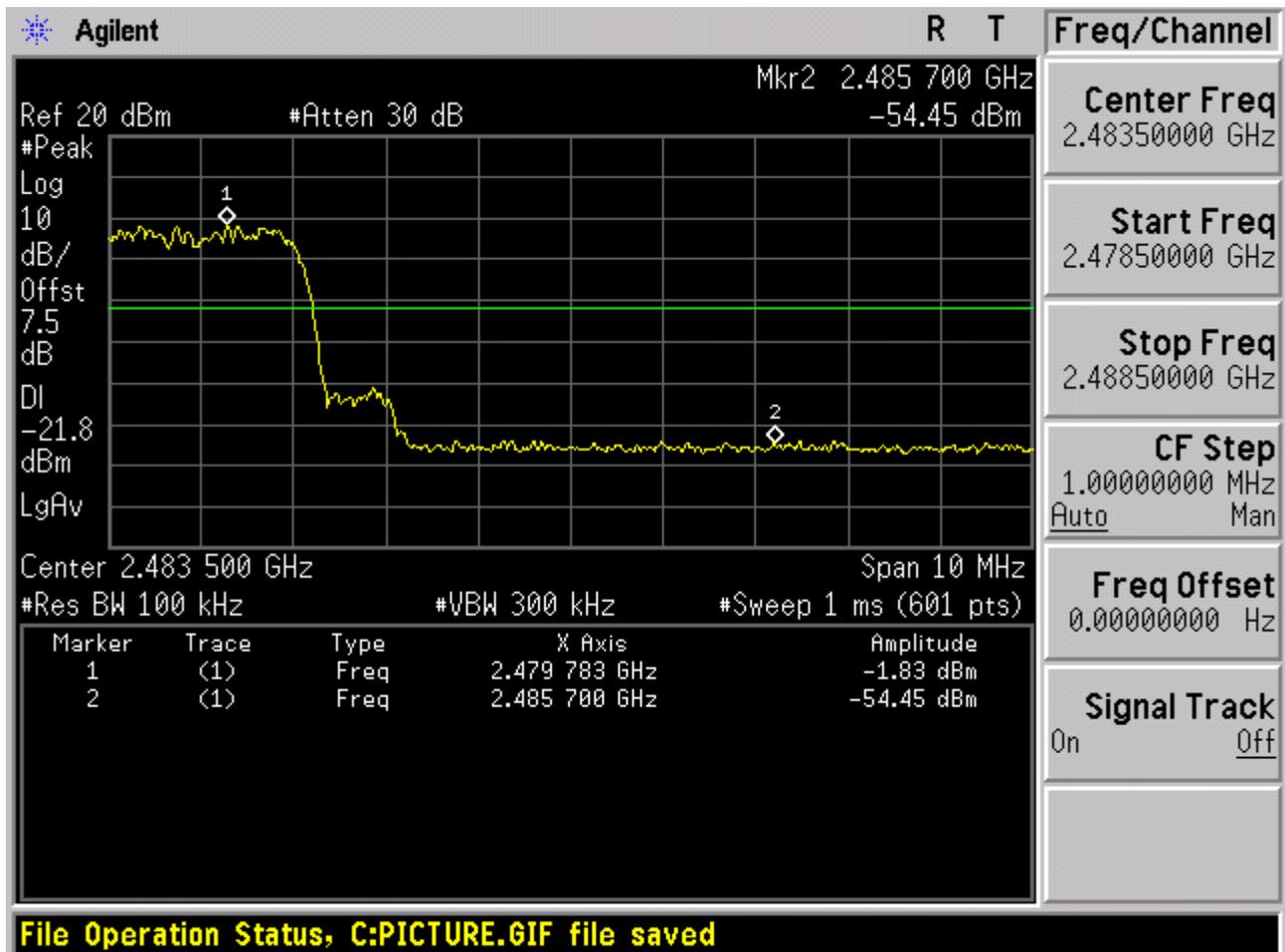


2.4 TM2_2DH5_Ch78

No hopping

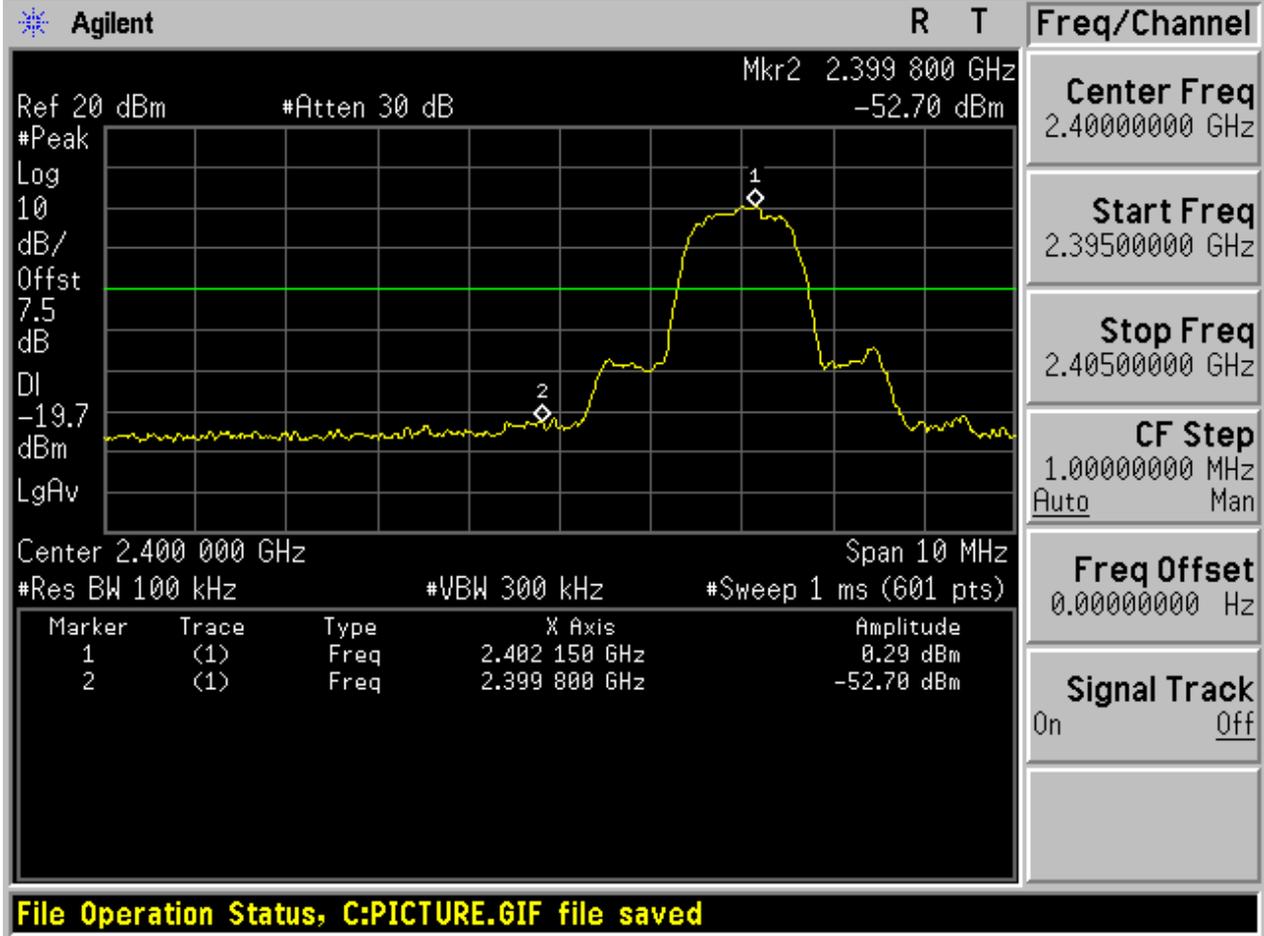


With hopping

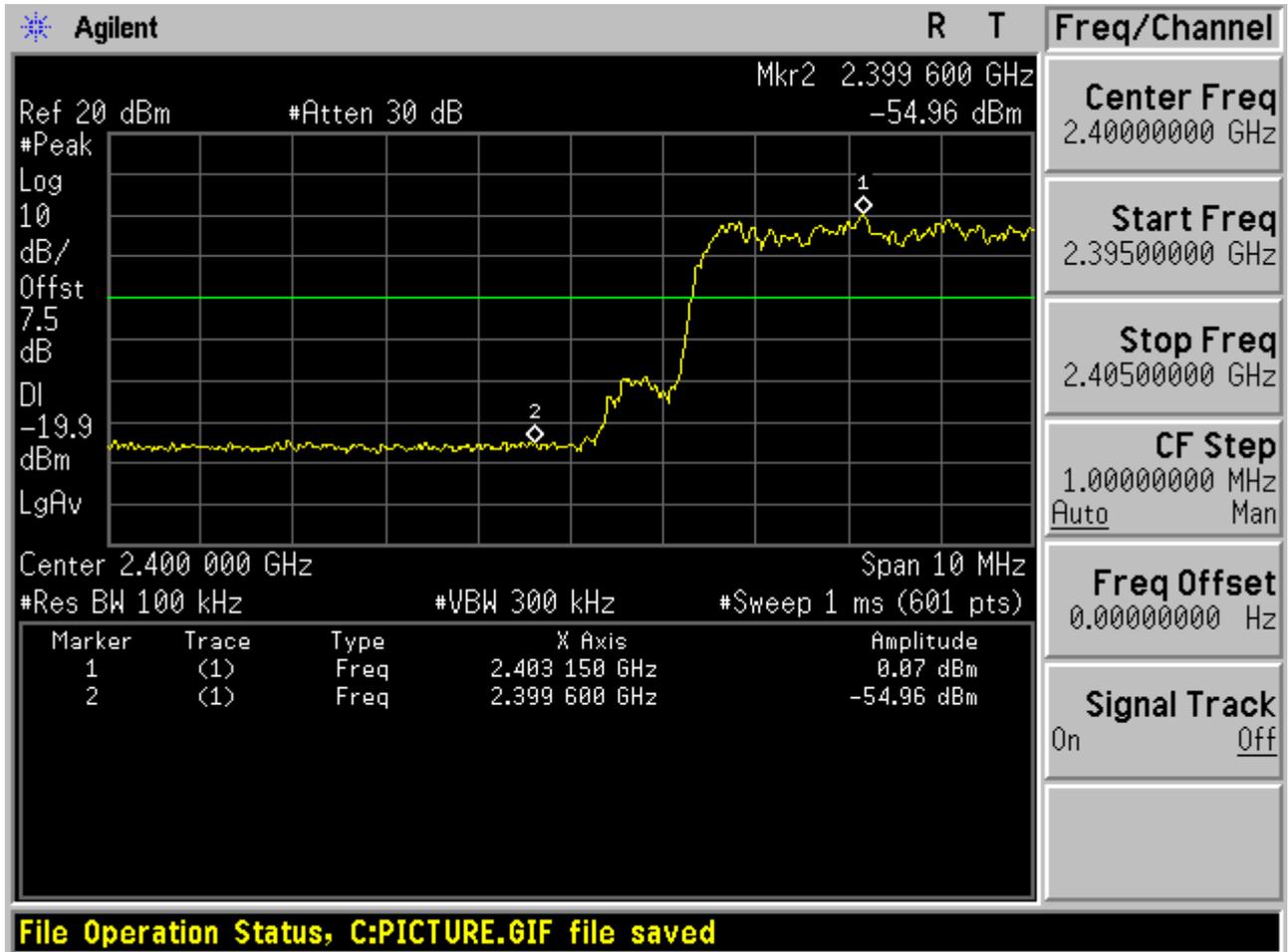


2.5 TM3_3DH5_Ch0

No hopping



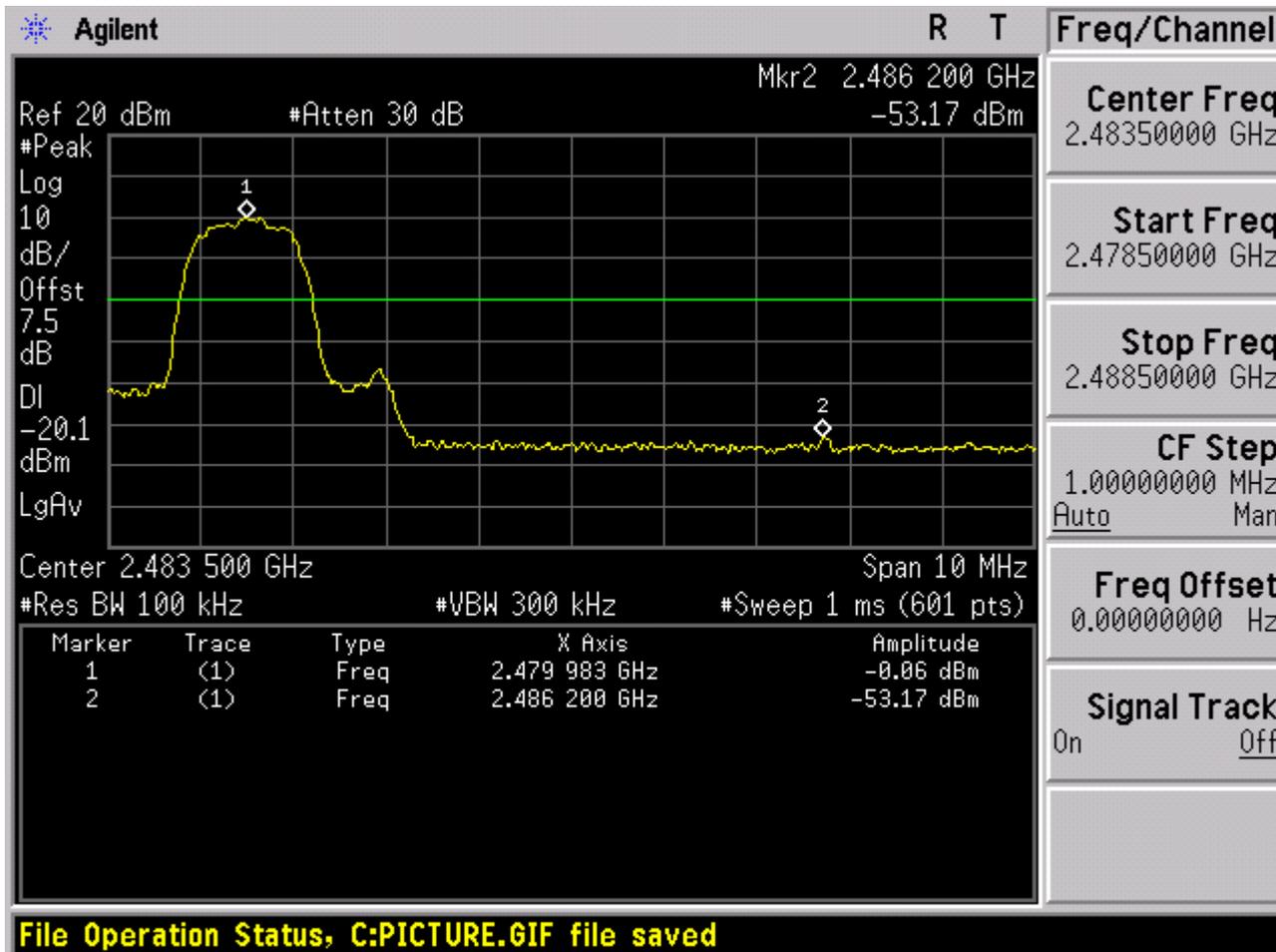
With hopping



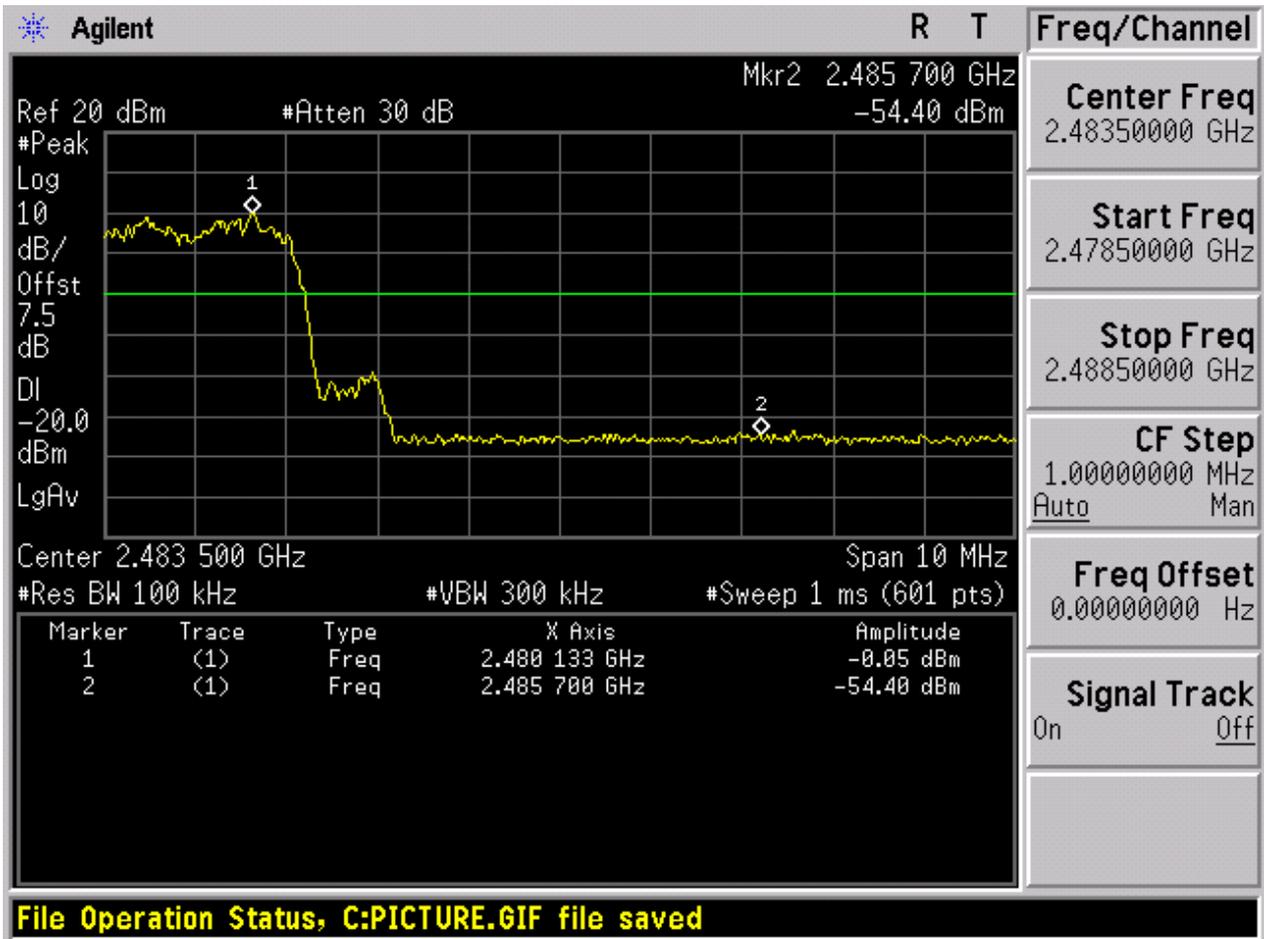


2.6 TM3_3DH5_Ch78

No hopping



With hopping





Appendix G: Conducted RF Spurious Emission



1 Result Table

In this Appendix, the “Pref” refers to the peak power level in any 100 kHz bandwidth within the fundamental emission which is used as the reference level, 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.

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

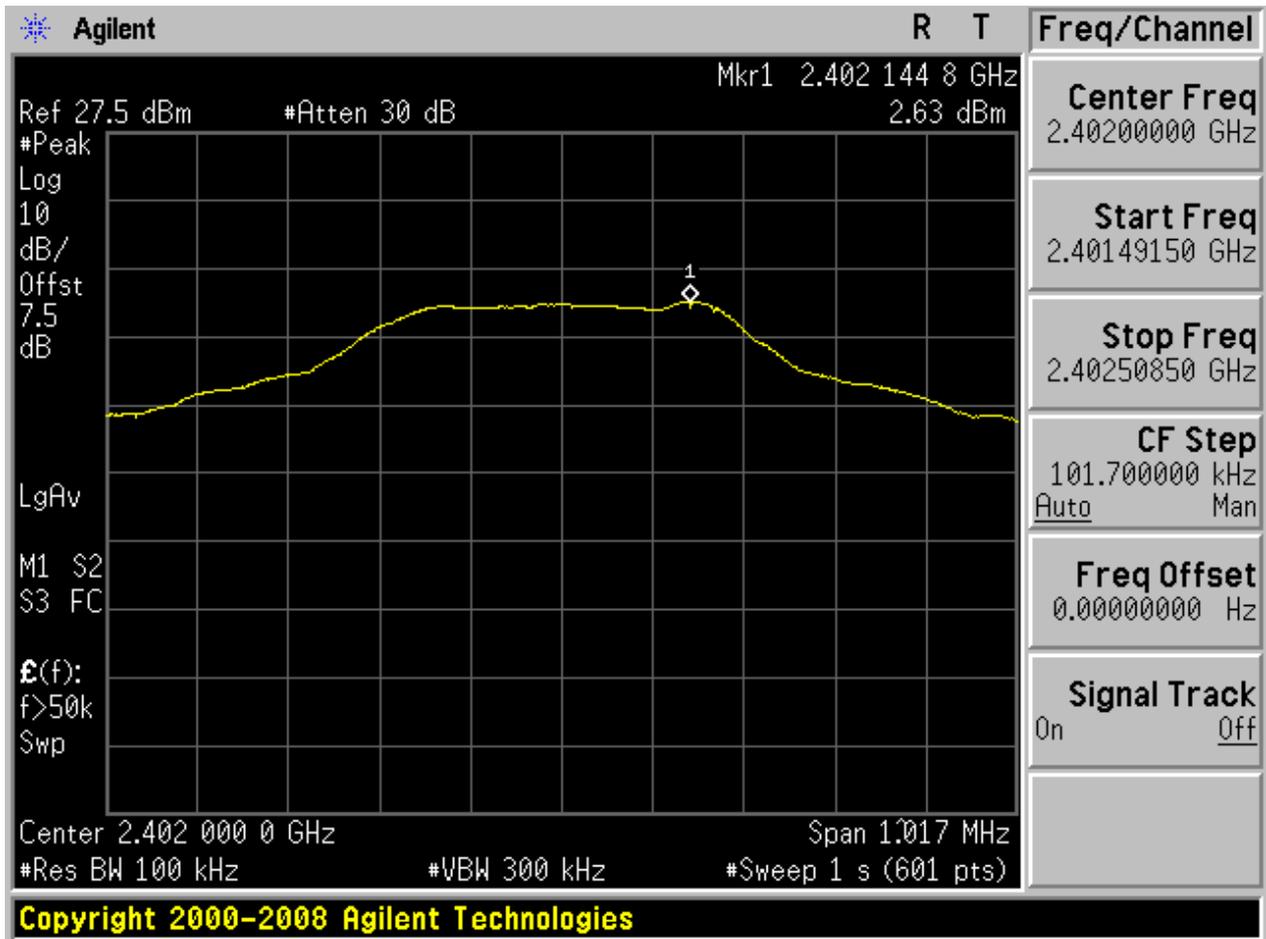
EUT Conf.	Pref [dBm/100 kHz]	Puw [dBm/100 kHz]	Verdict
TM1_DH5_Ch0	2.63	< Limit	Pass
TM1_DH5_Ch39	3.71	< Limit	Pass
TM1_DH5_Ch78	2.47	< Limit	Pass
TM2_2DH5_Ch0	0.46	< Limit	Pass
TM2_2DH5_Ch39	1.02	< Limit	Pass
TM2_2DH5_Ch78	-0.01	< Limit	Pass
TM3_3DH5_Ch0	0.27	< Limit	Pass
TM3_3DH5_Ch39	1.09	< Limit	Pass
TM3_3DH5_Ch78	-0.01	< Limit	Pass



2 Test Plot

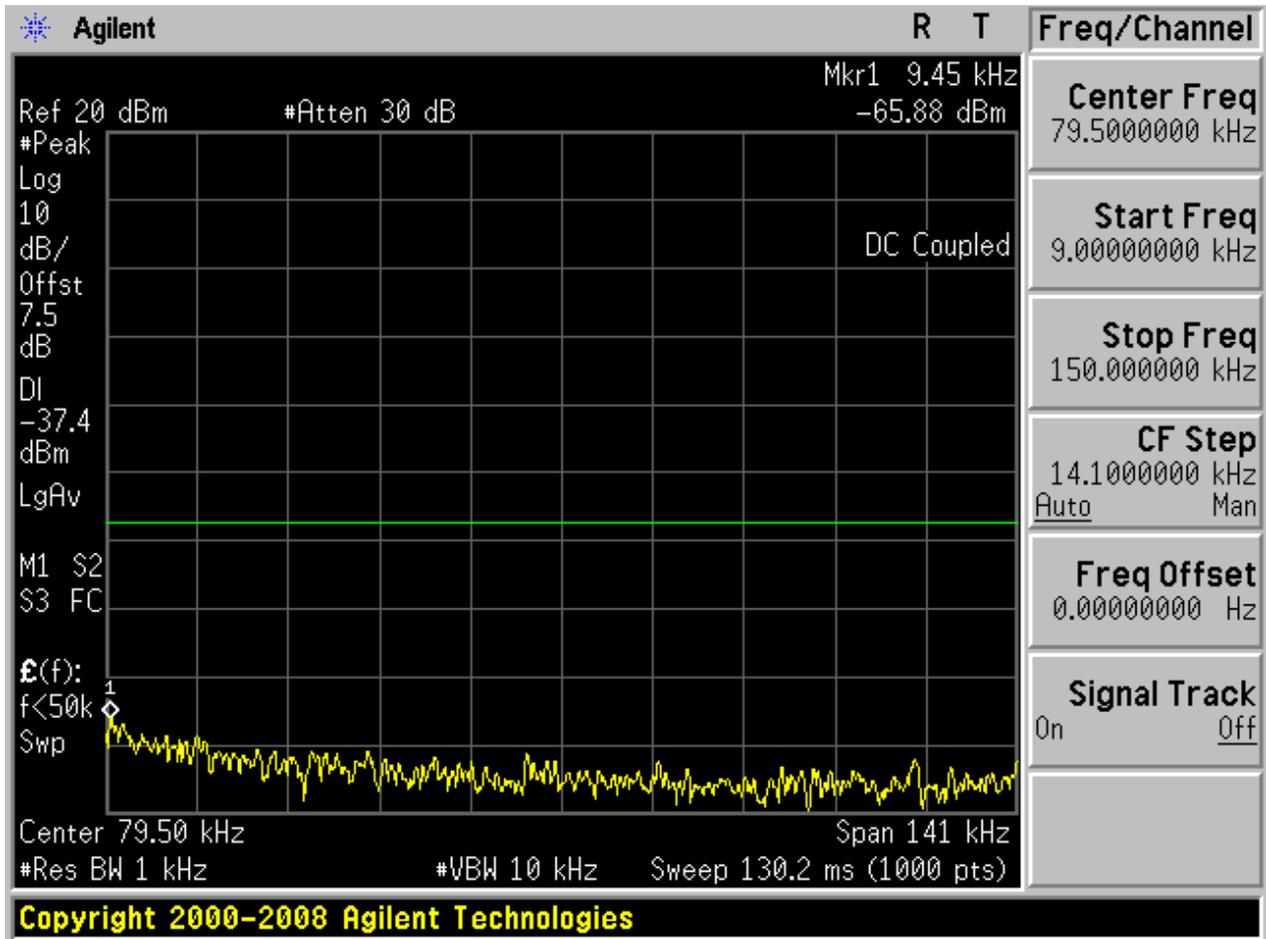
2.1 TM1_DH5_Ch0

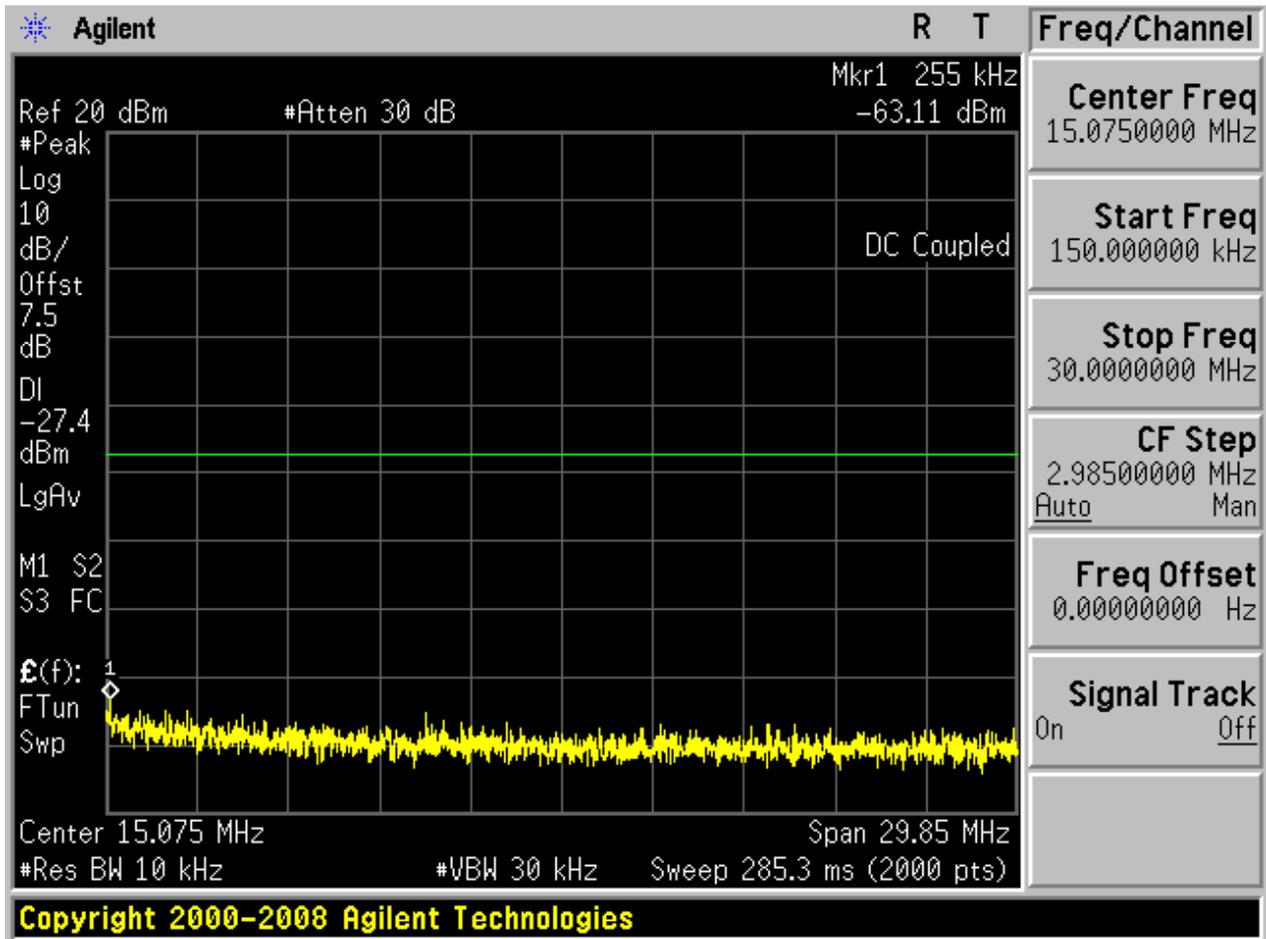
2.1.1 Pref

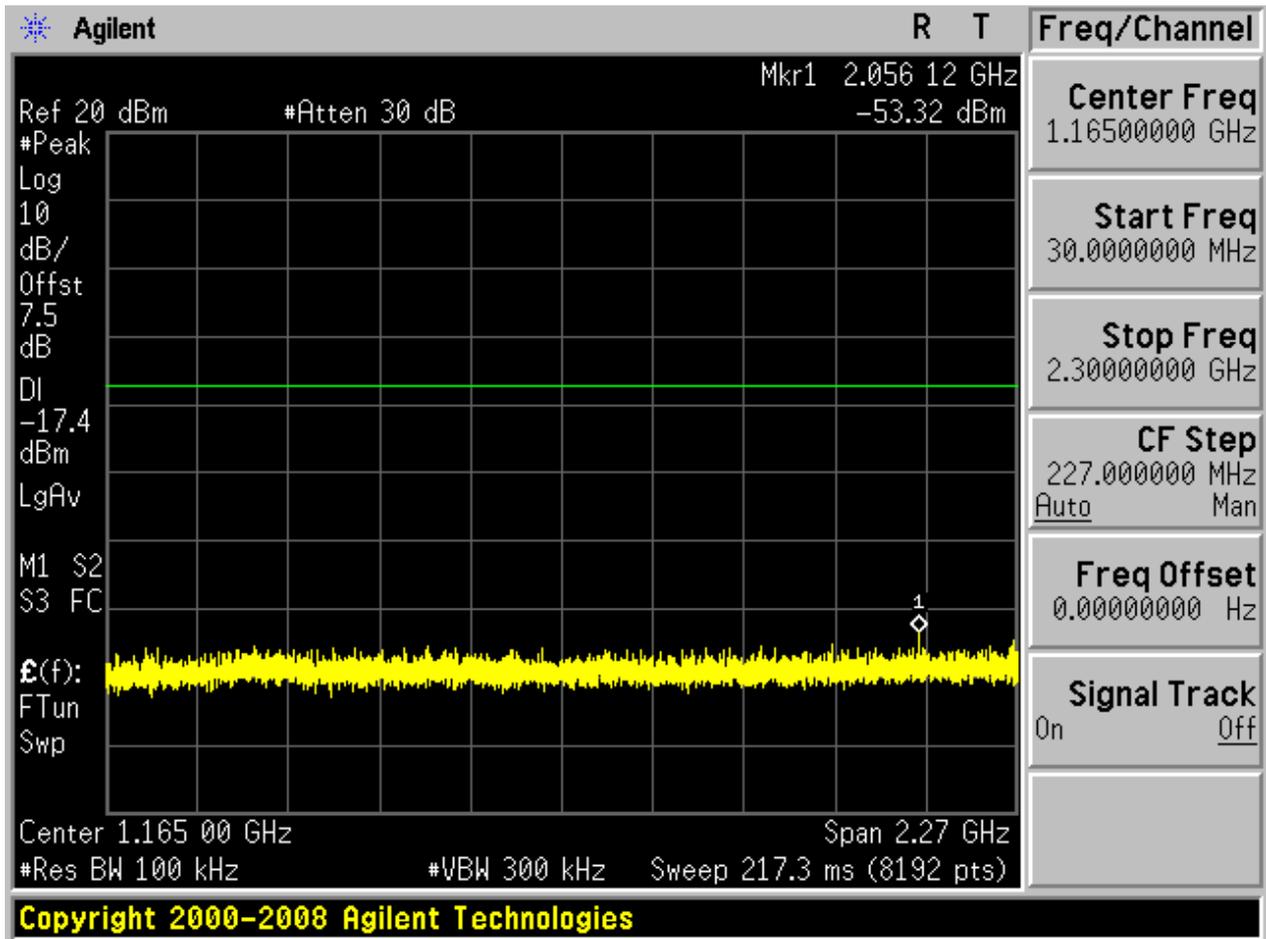


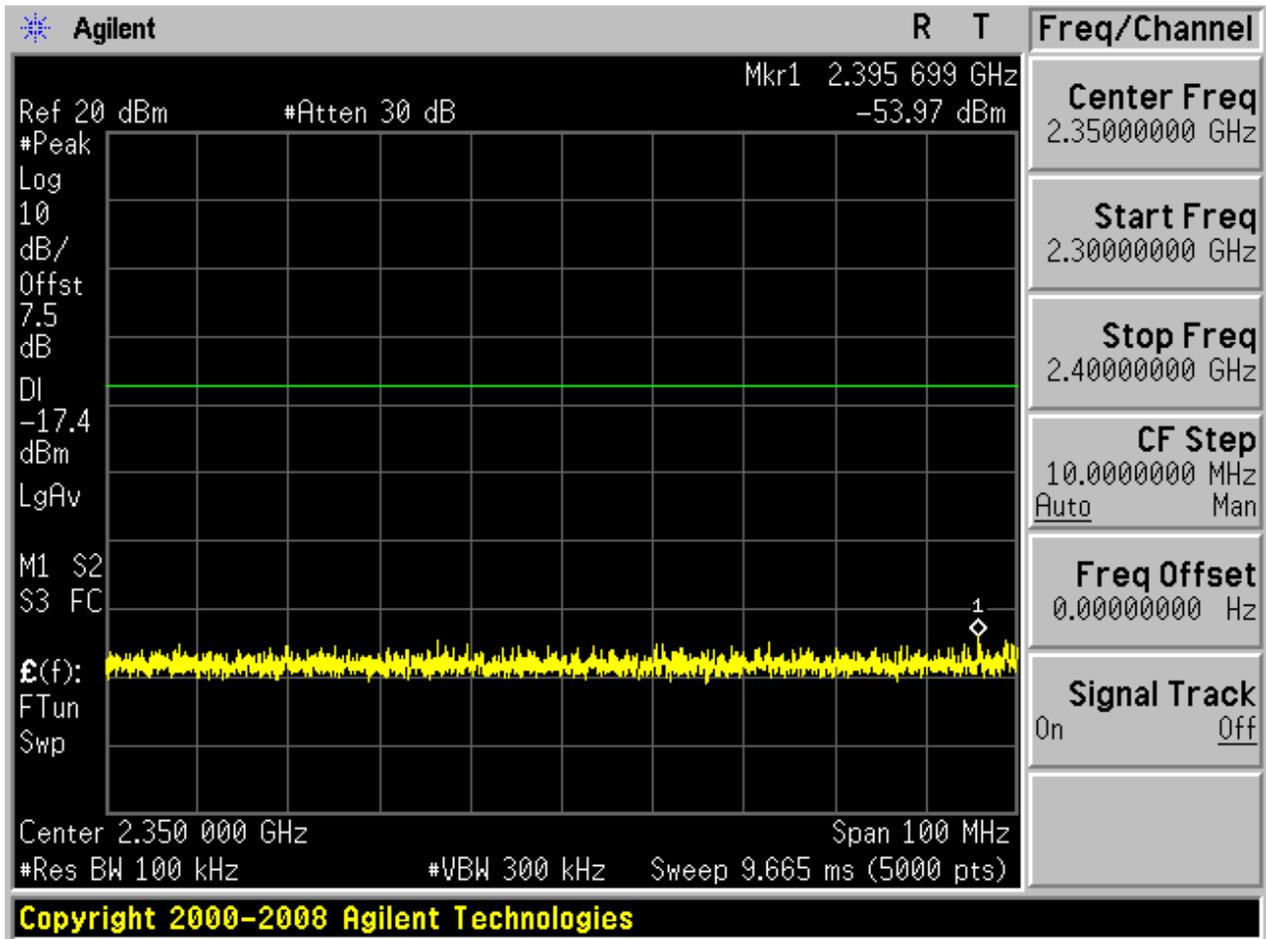


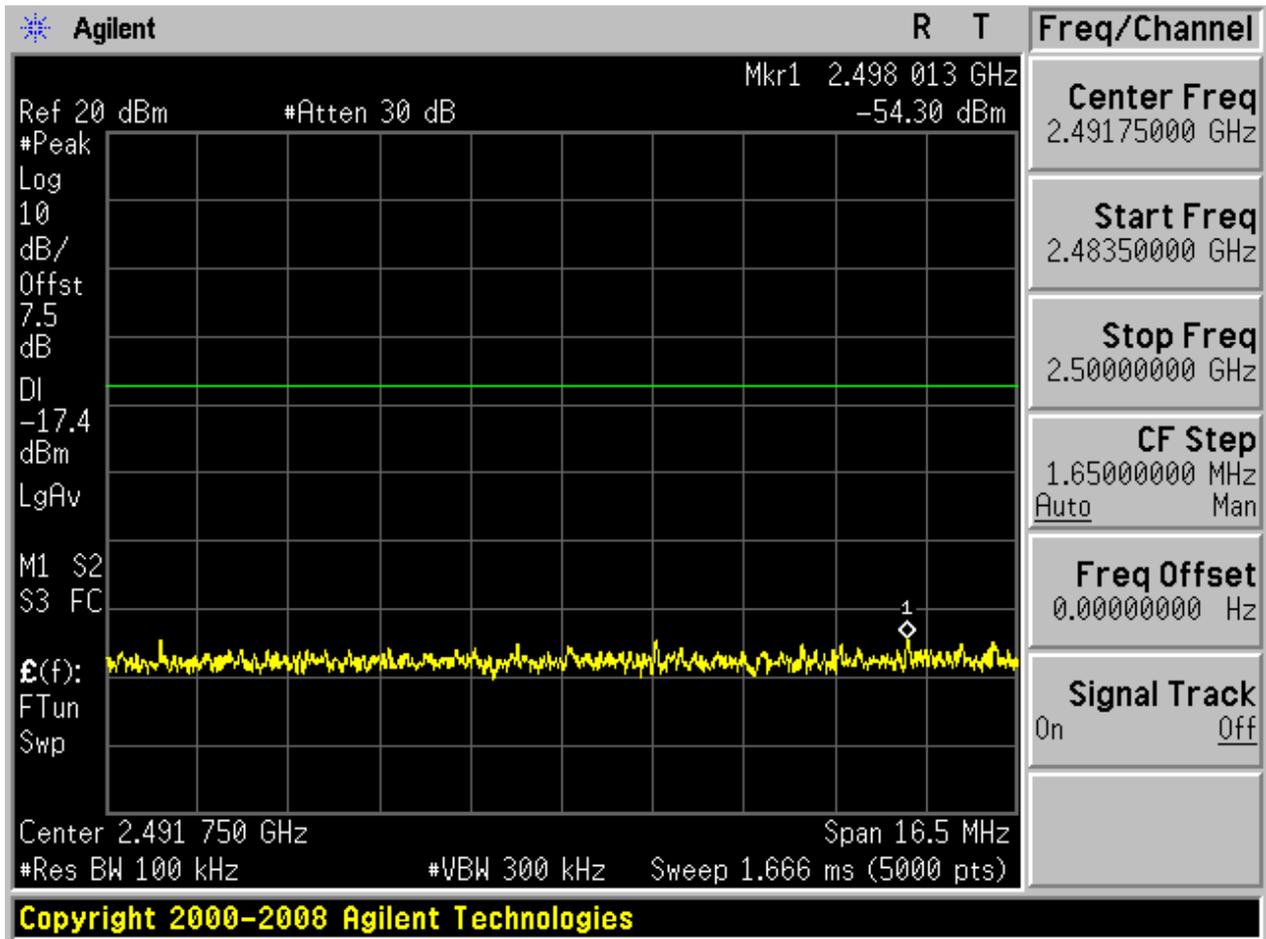
2.1.2 P_{uw}

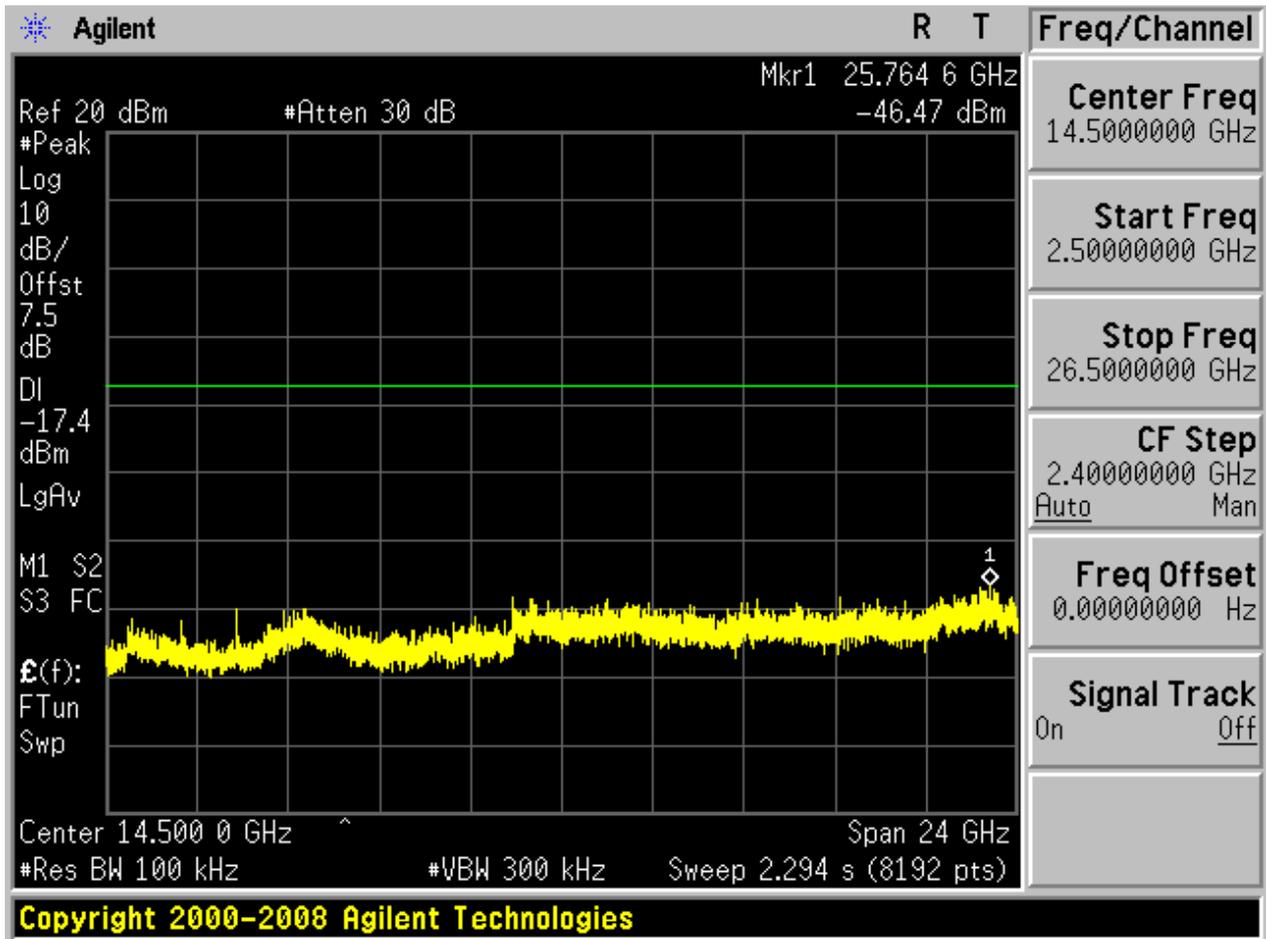








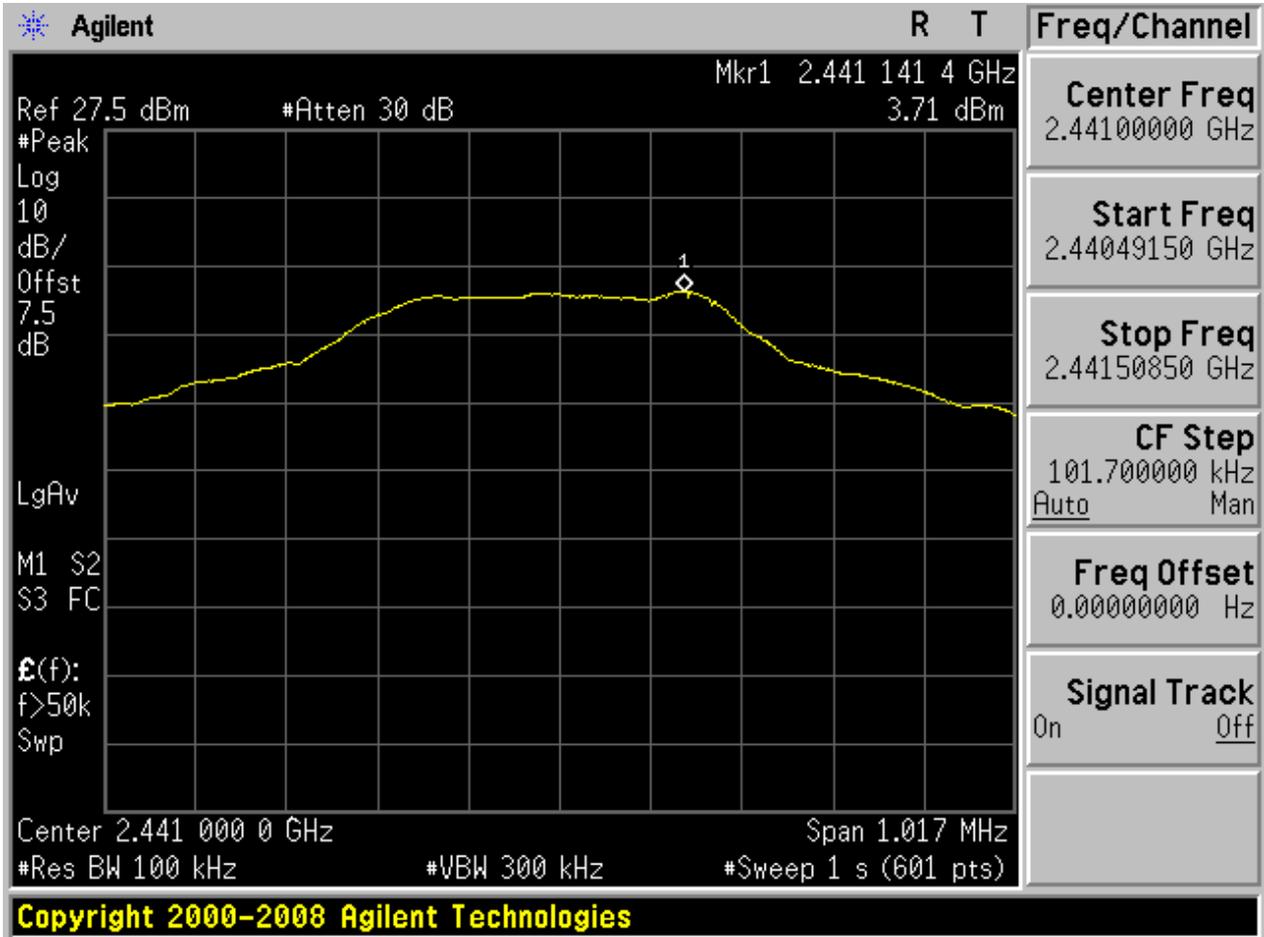






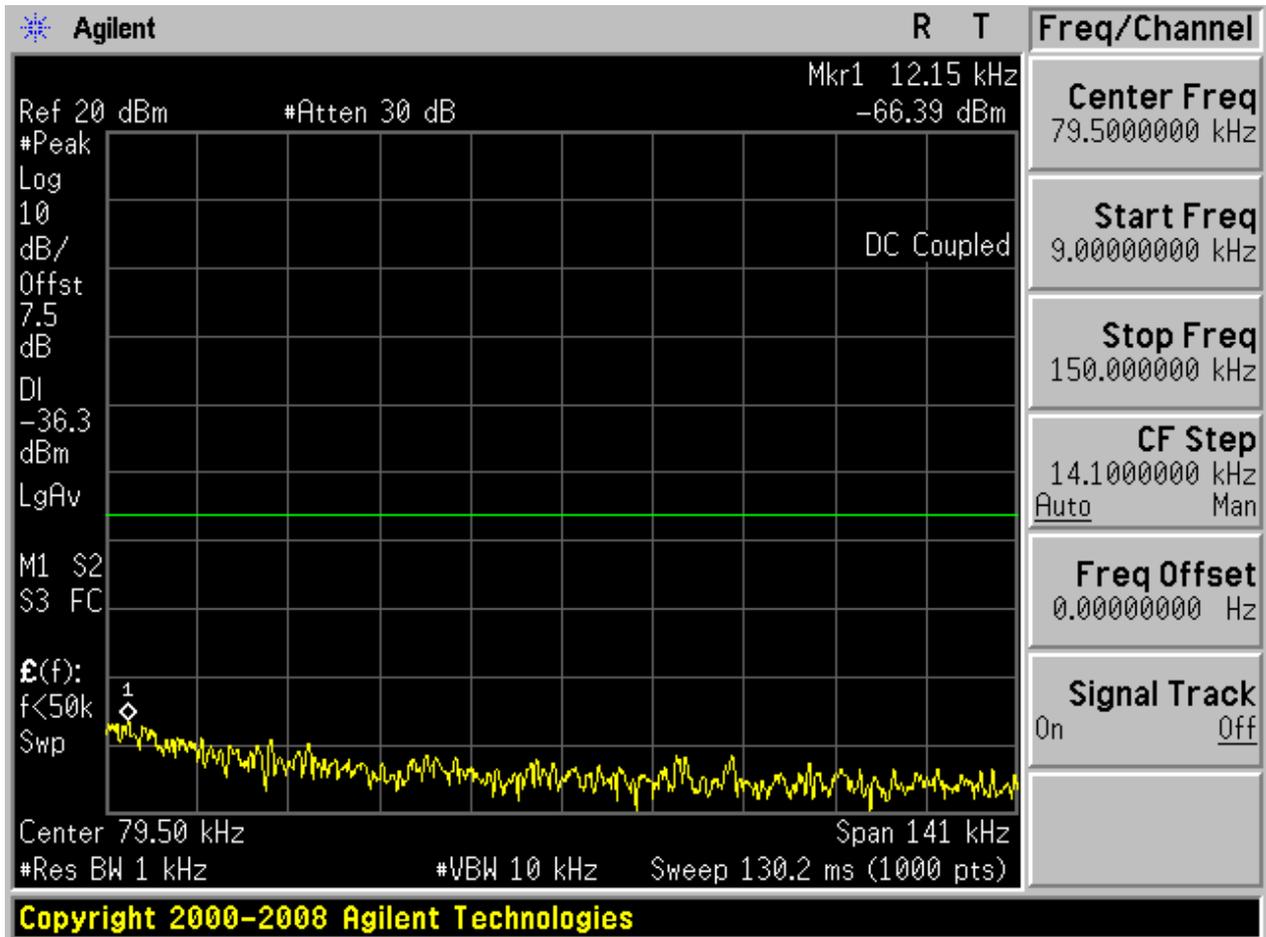
2.2 TM1_DH5_Ch39

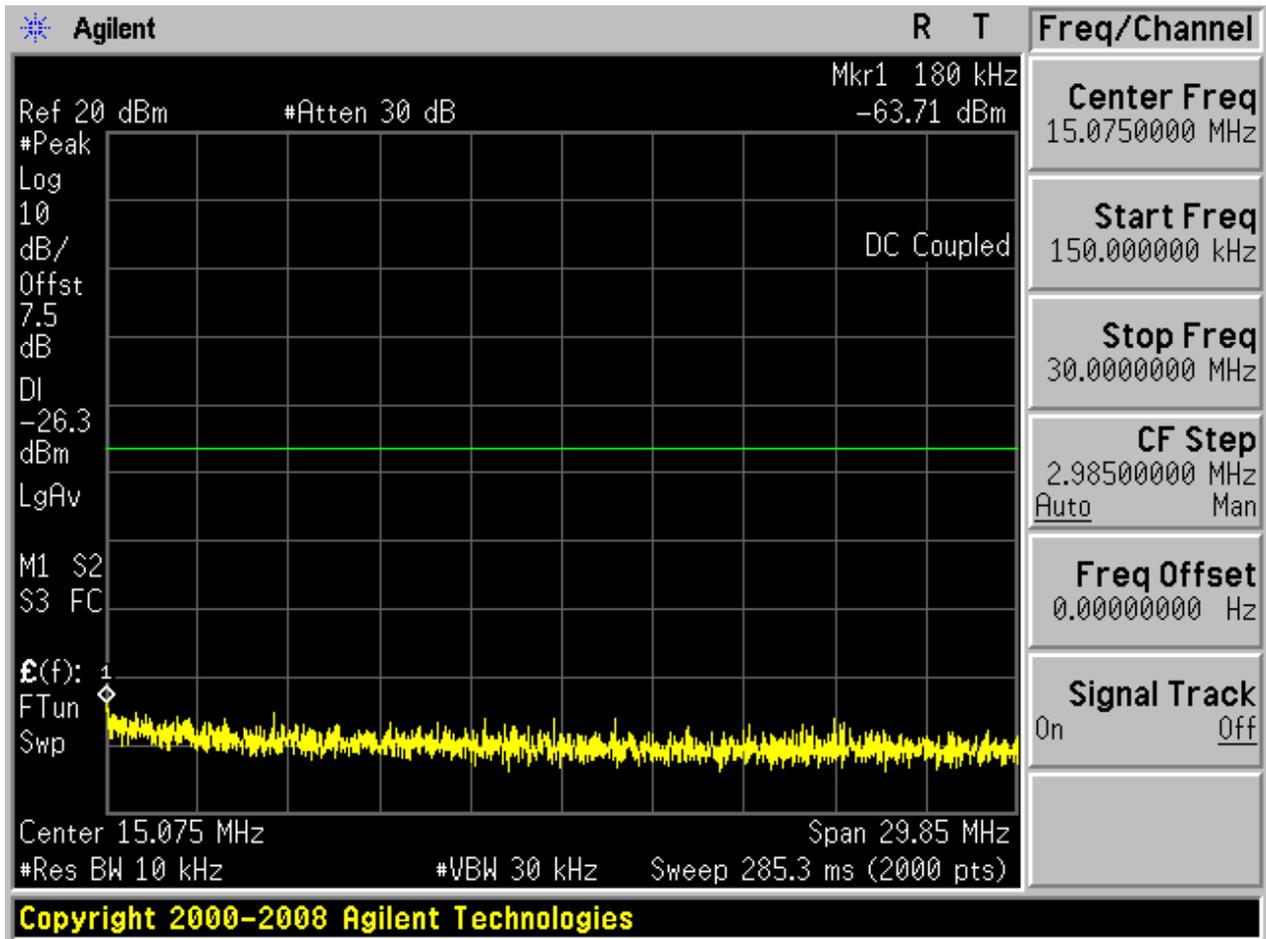
2.2.1 Pref

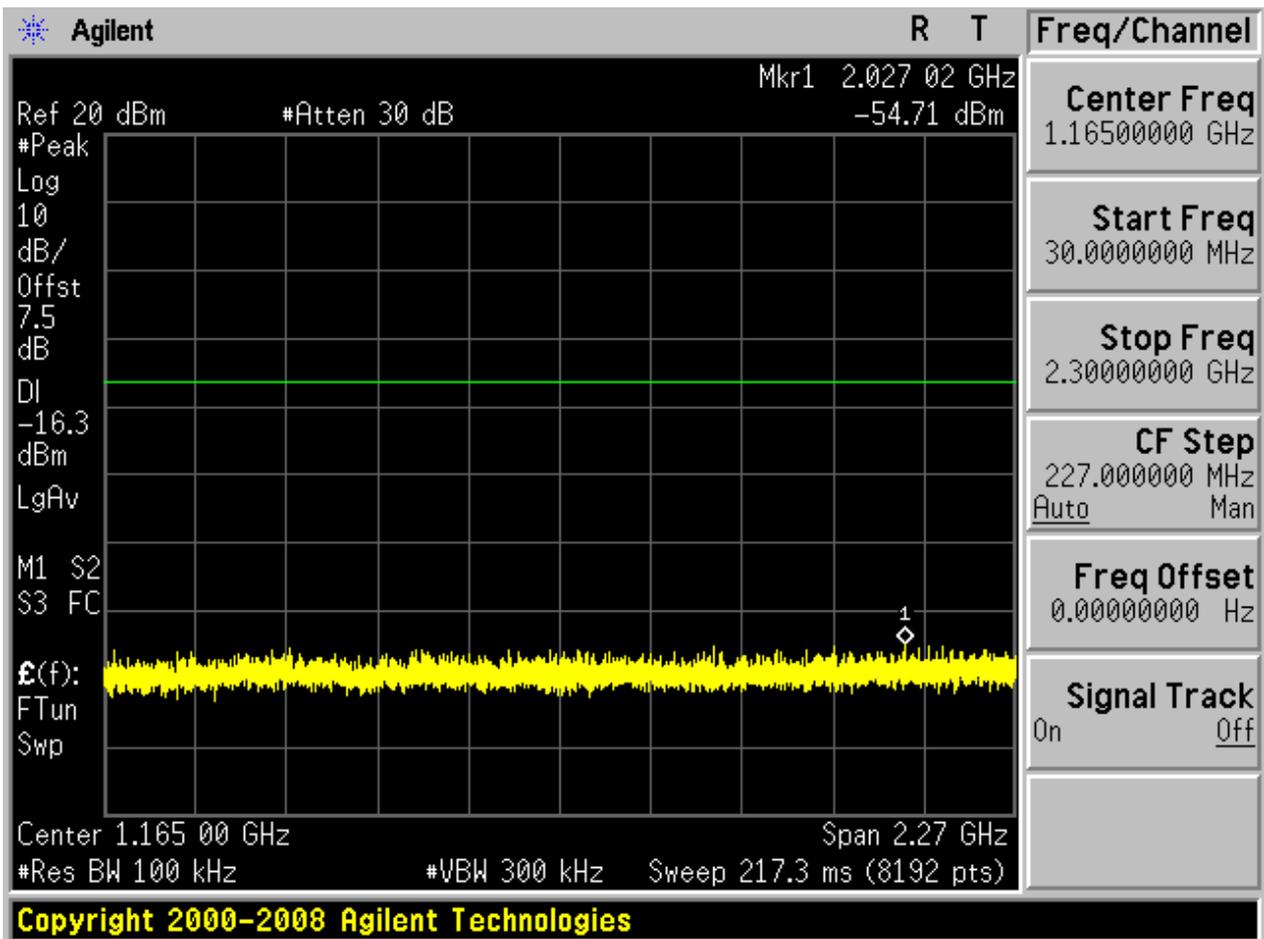


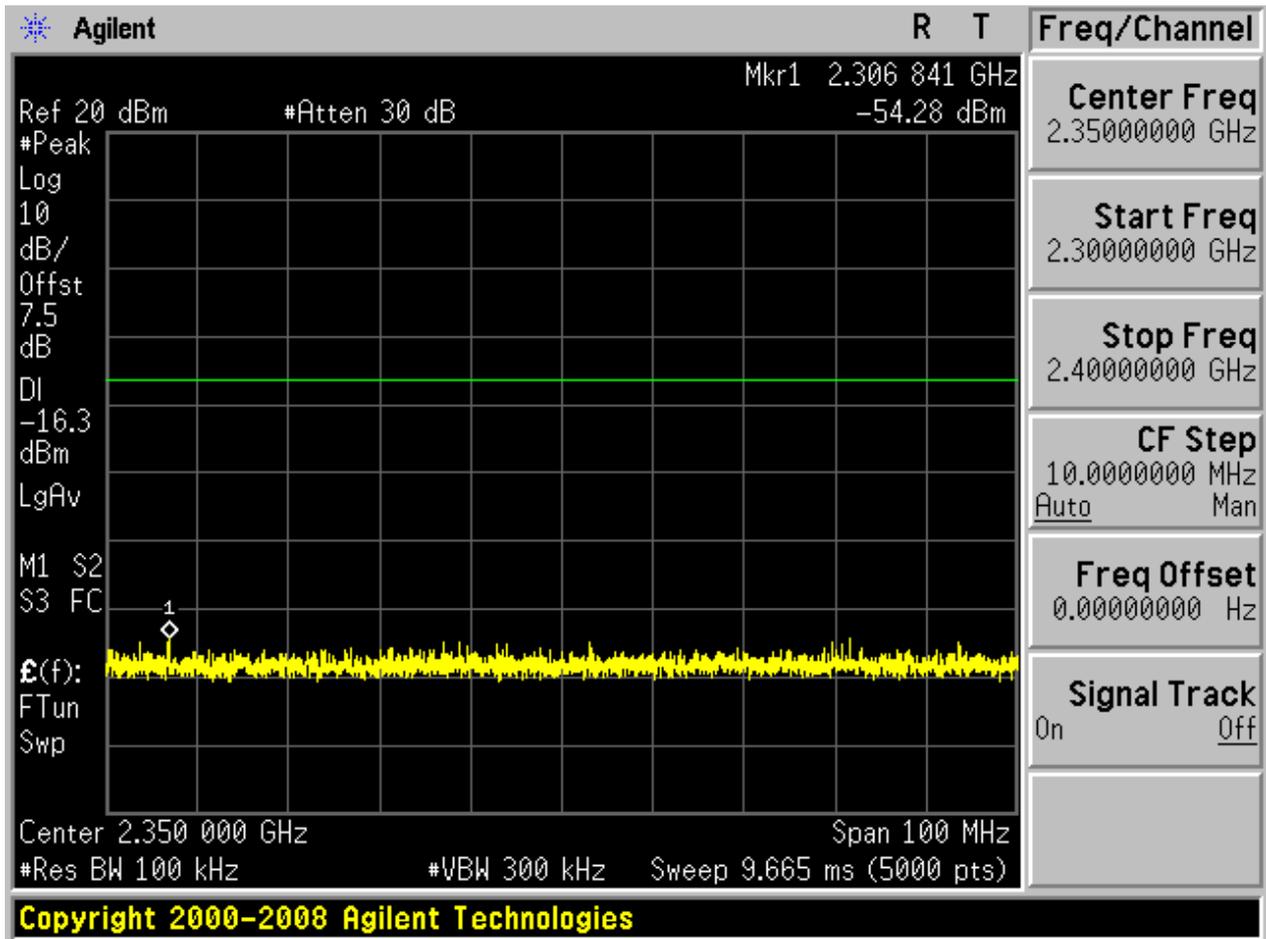


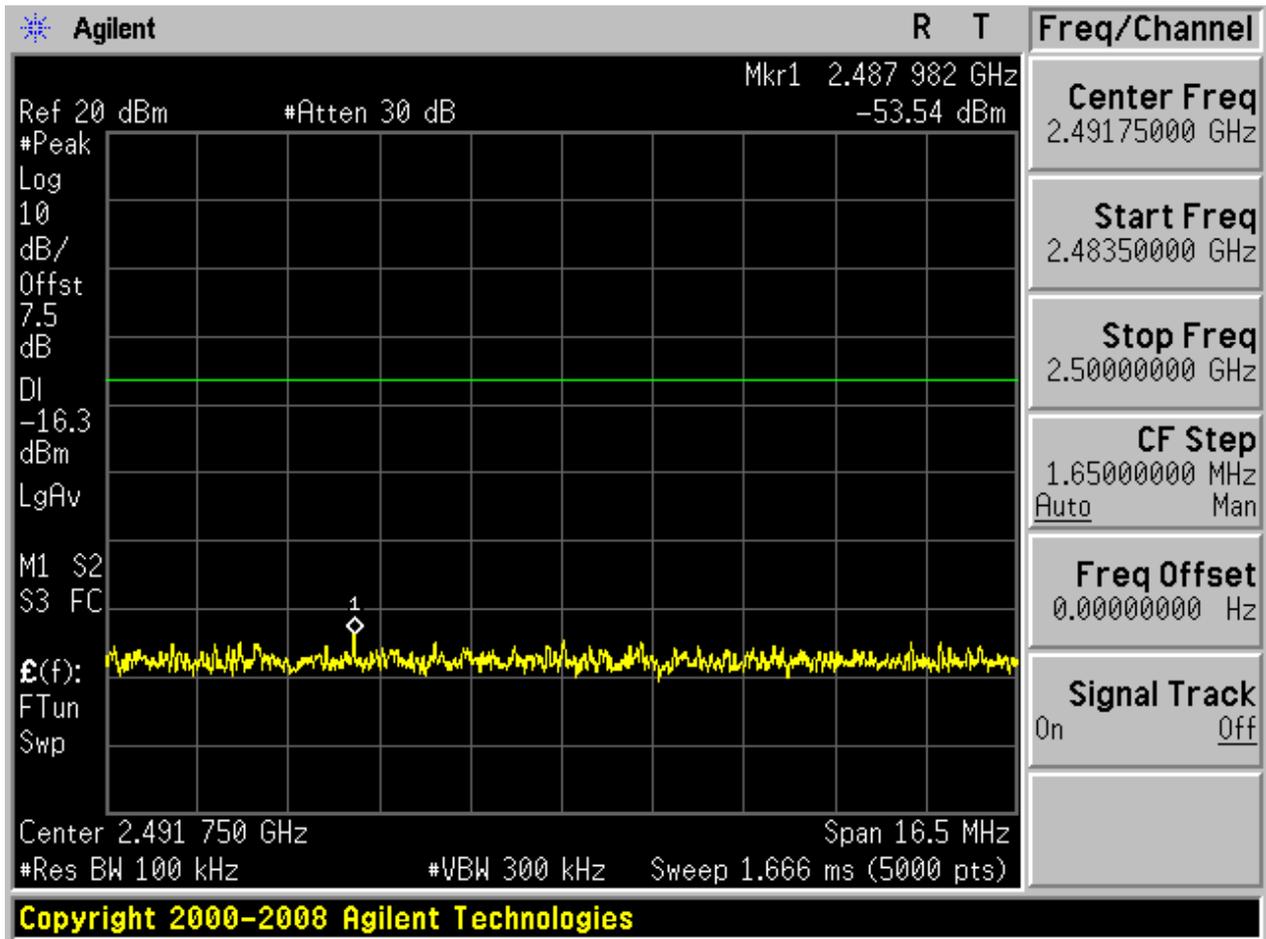
2.2.2 Puw

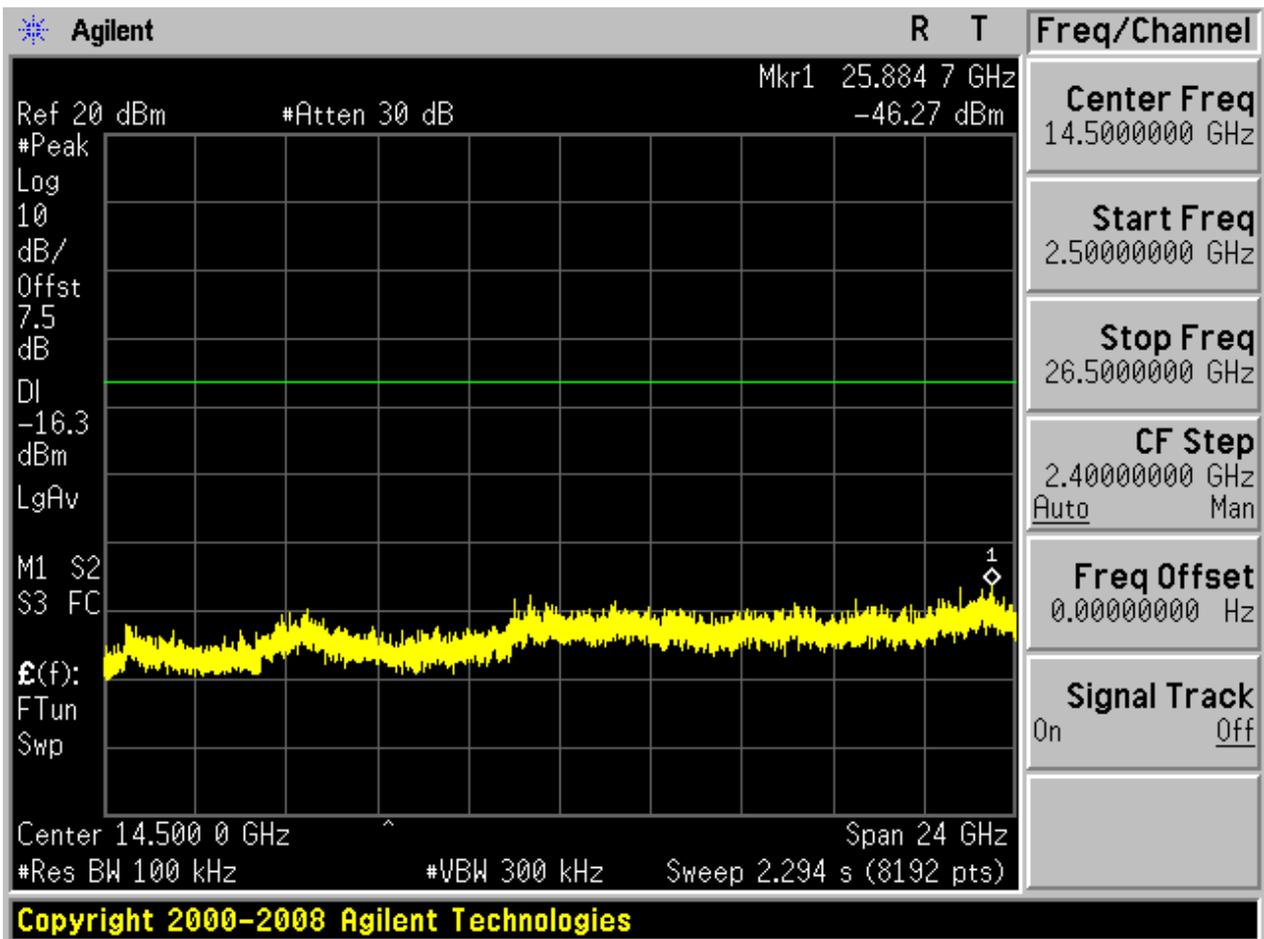








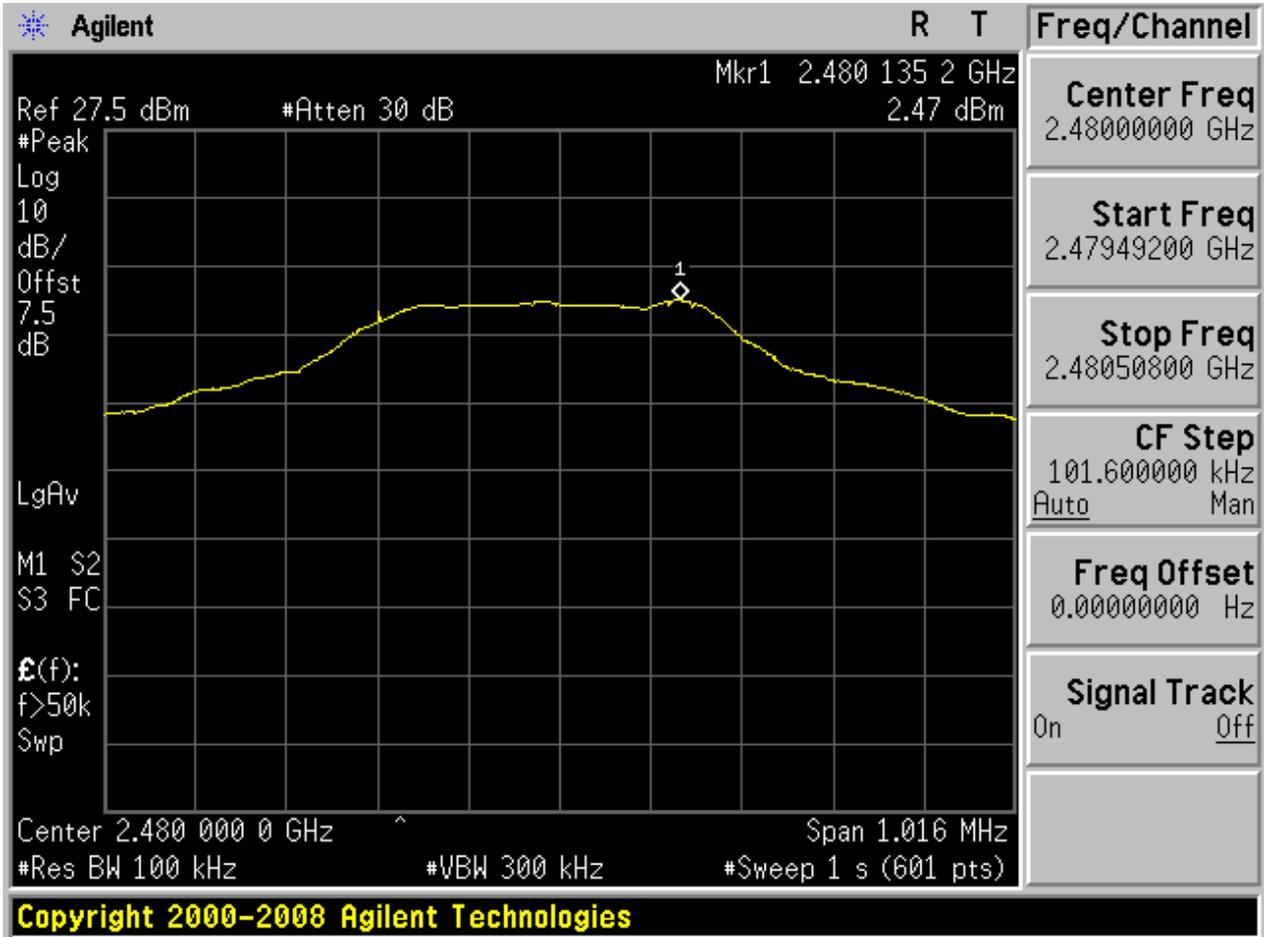






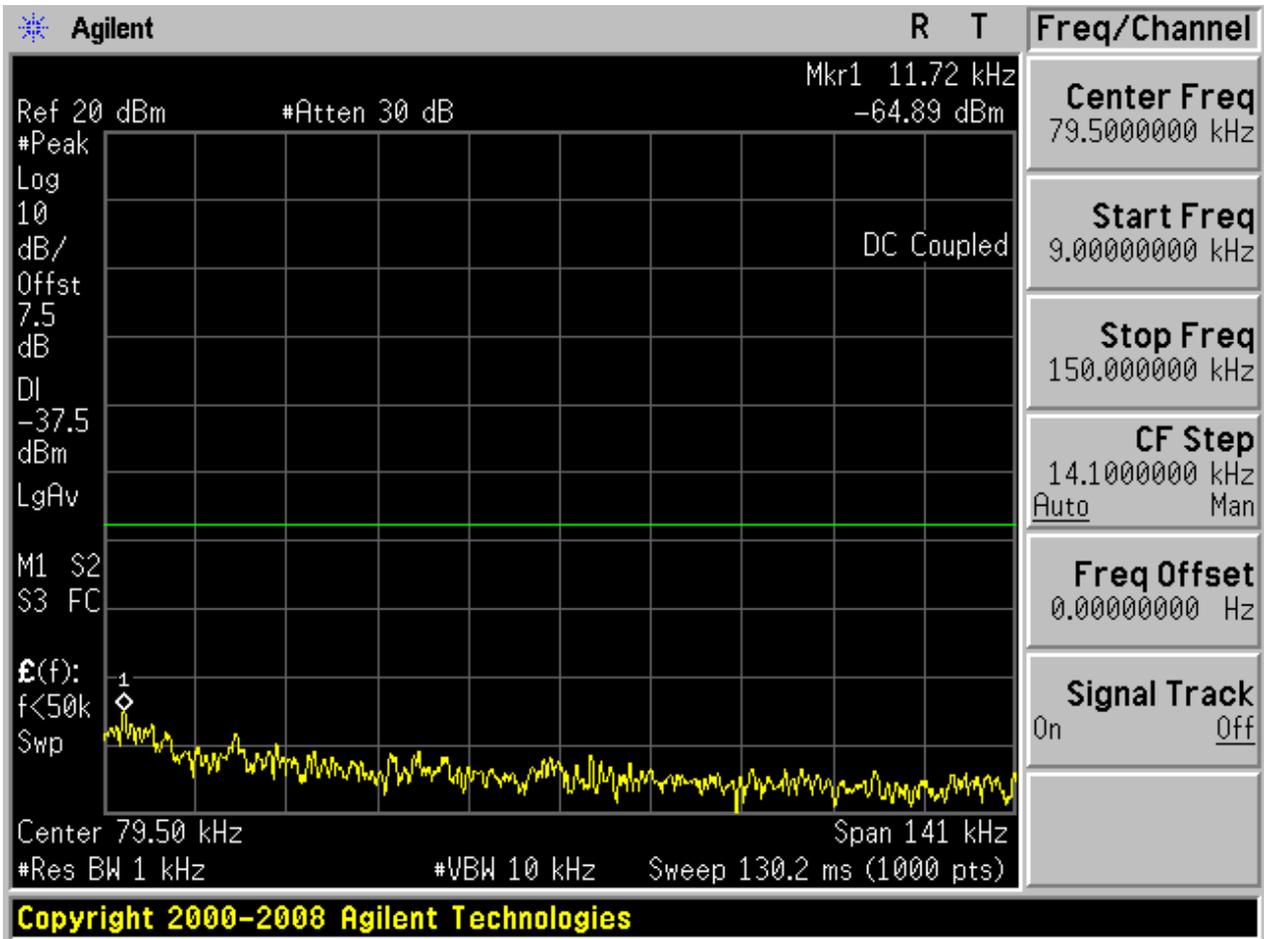
2.3 TM1_DH5_Ch78

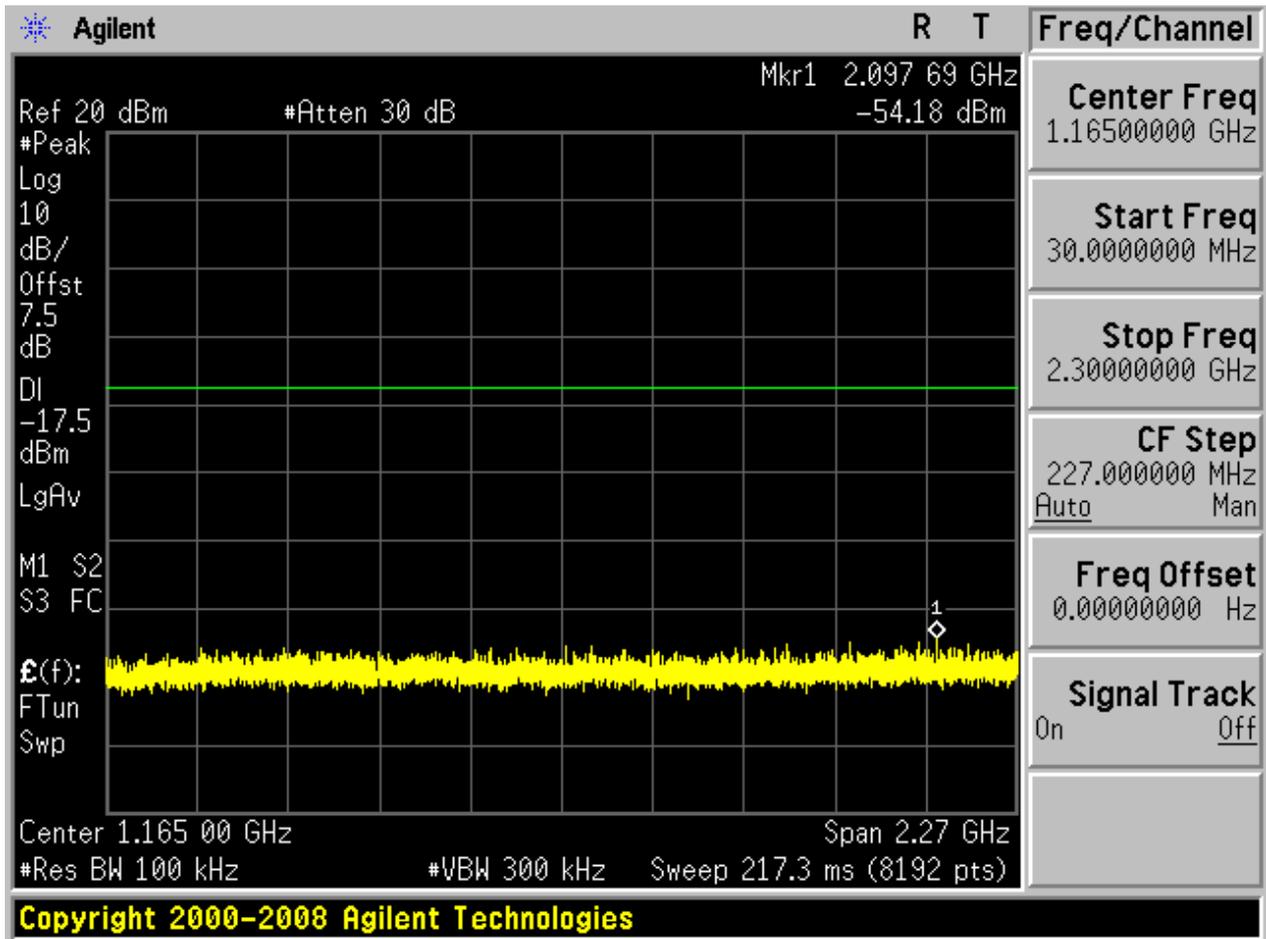
2.3.1 Pref

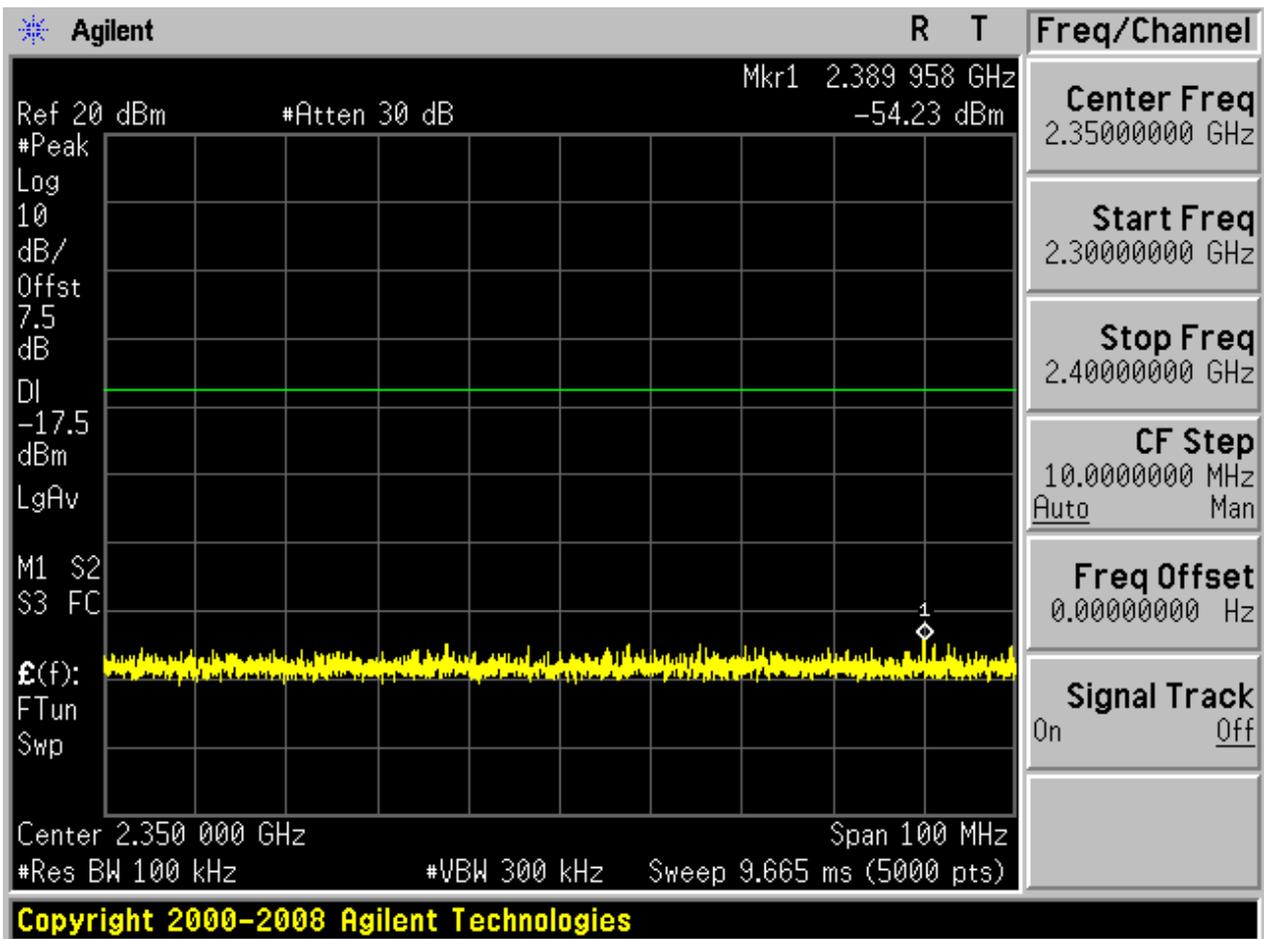


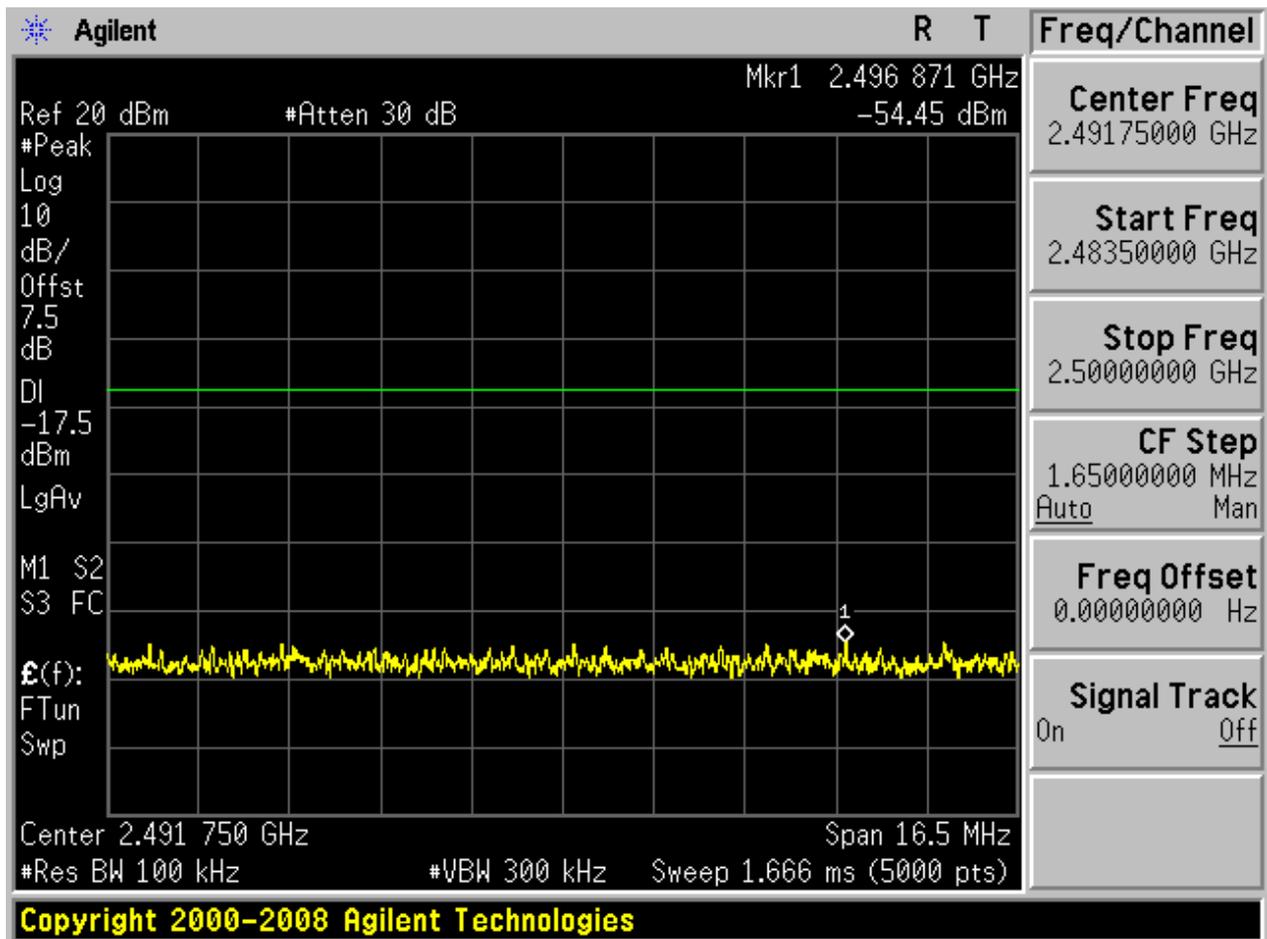


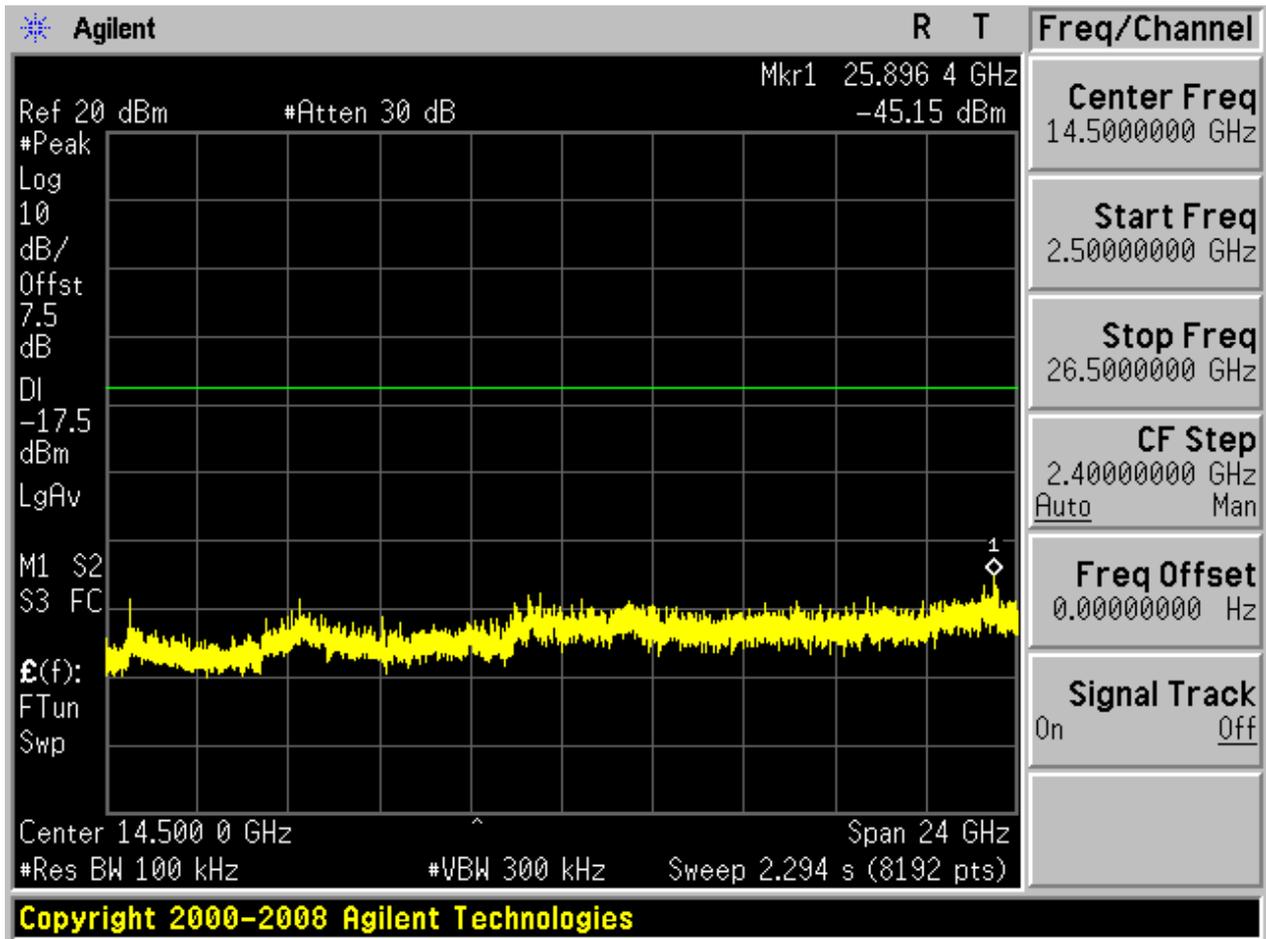
2.3.2 Puw







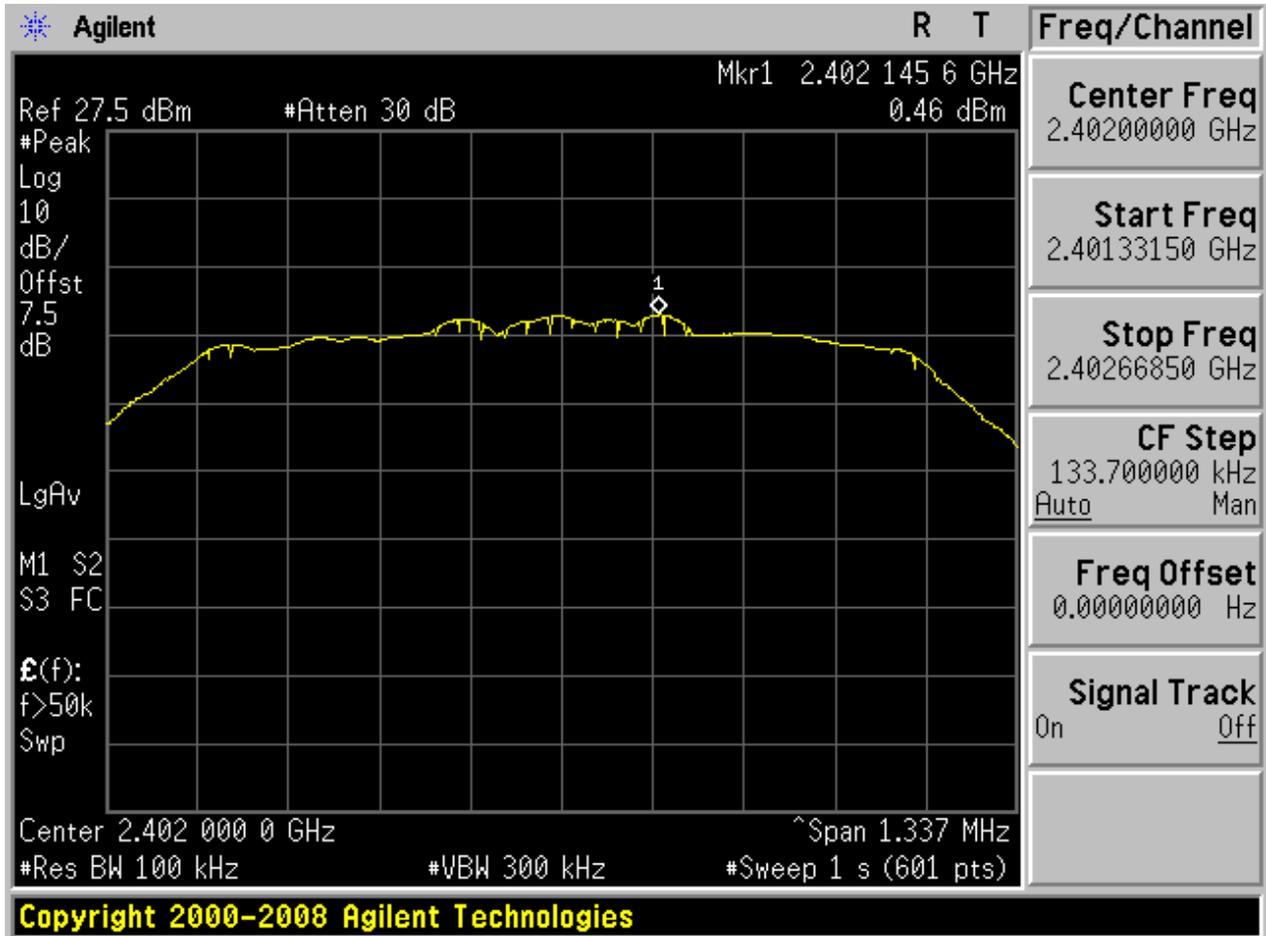






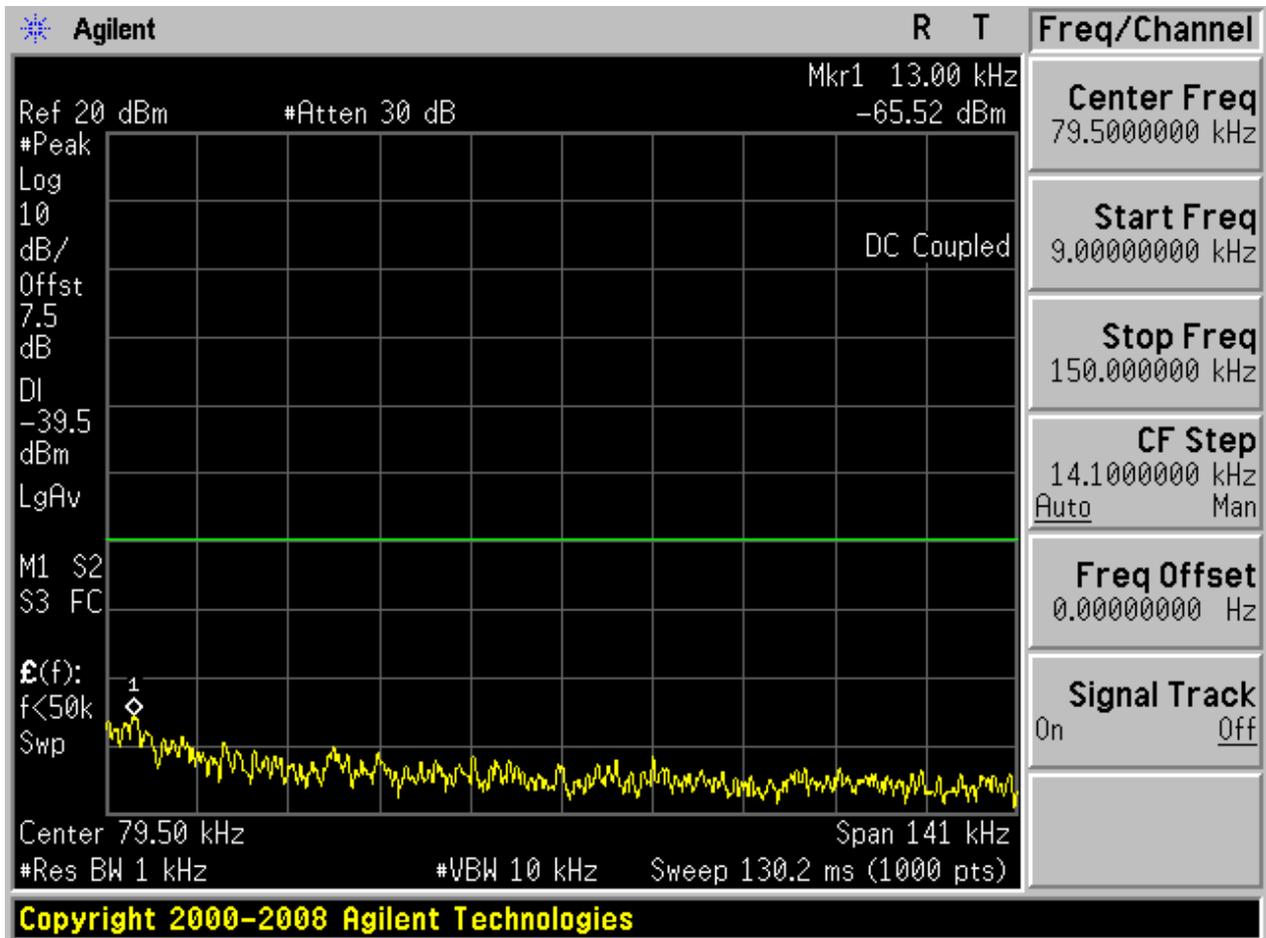
2.4 TM2_2DH5_Ch0

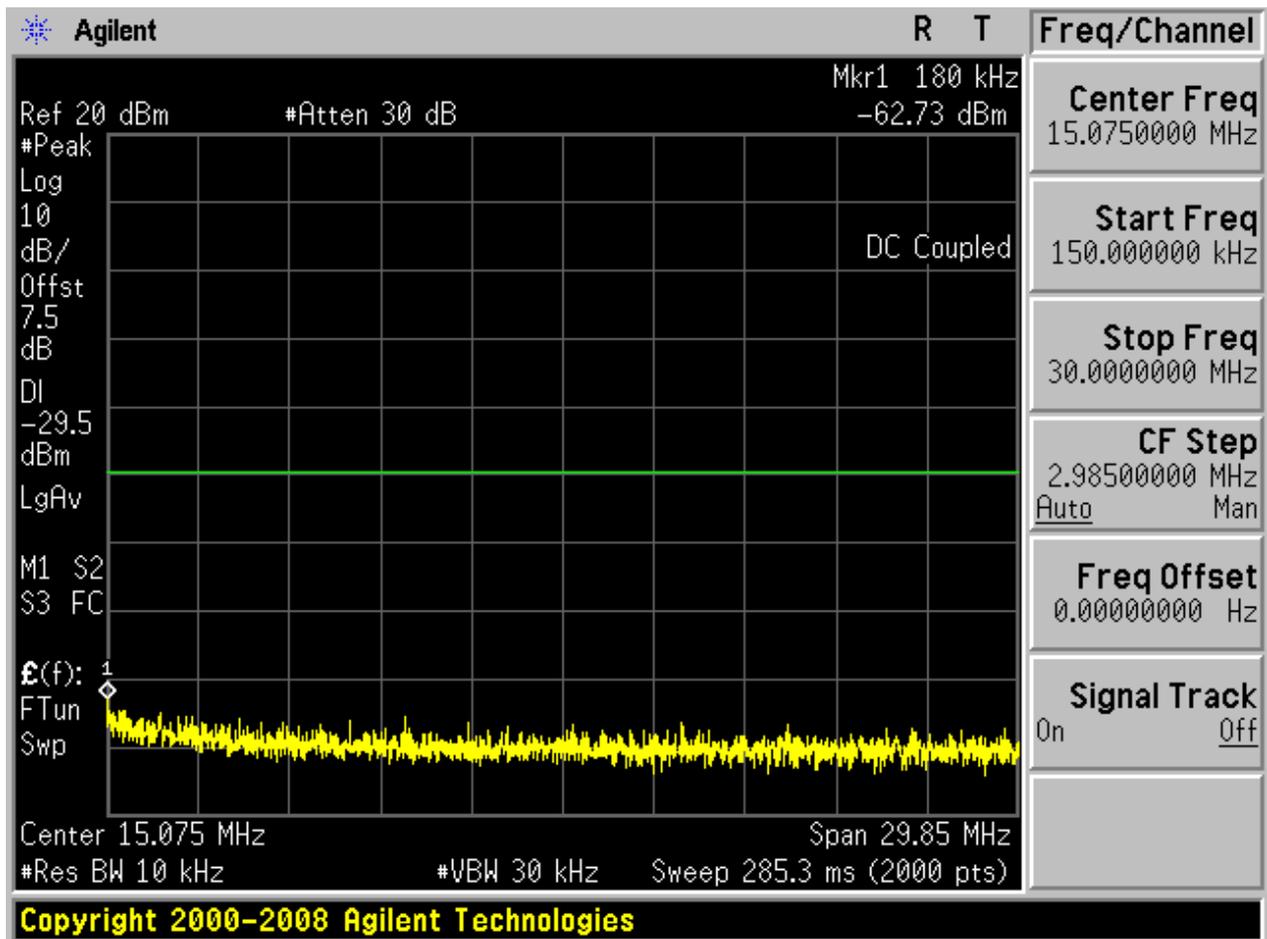
2.4.1 Pref

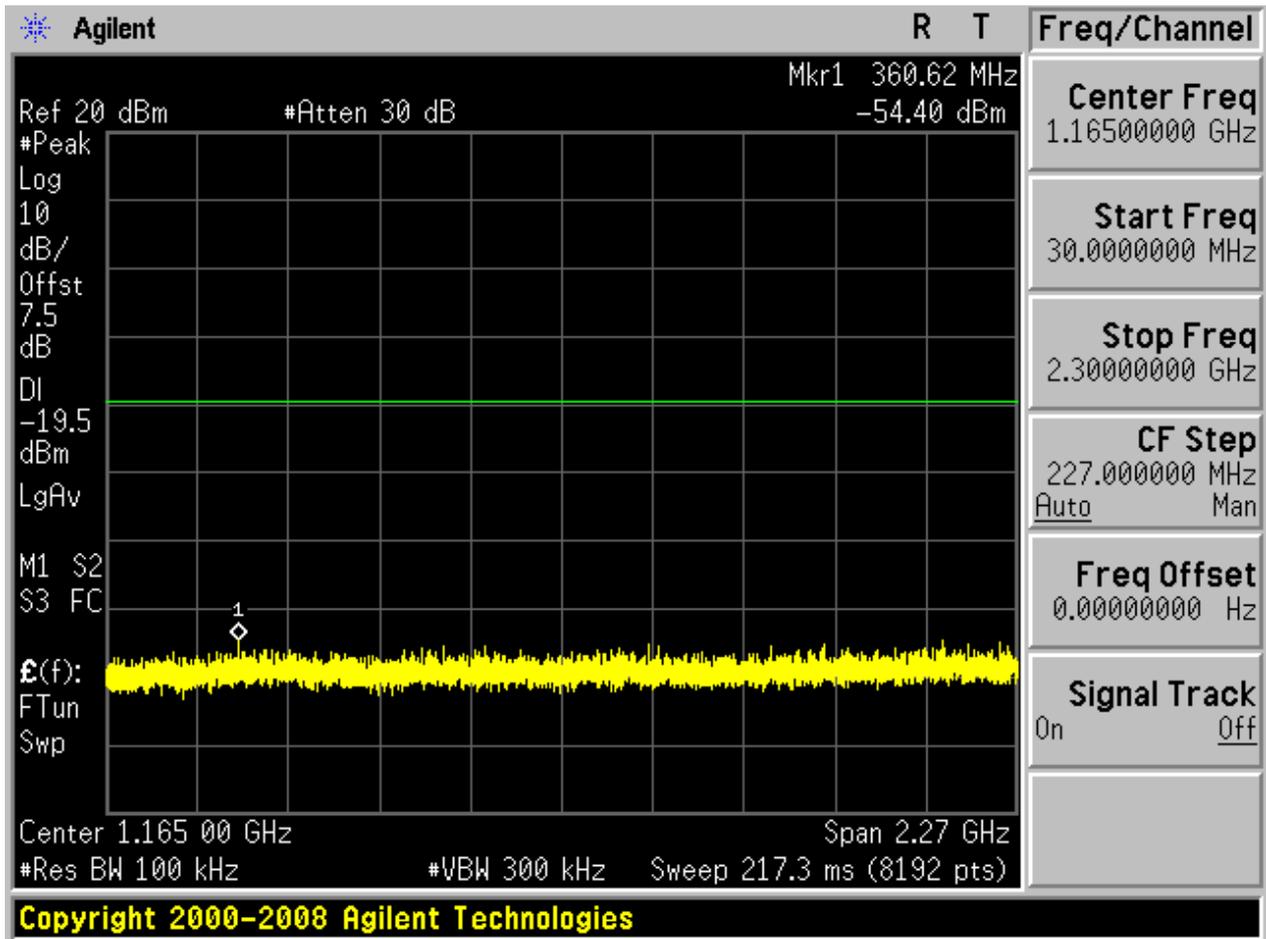


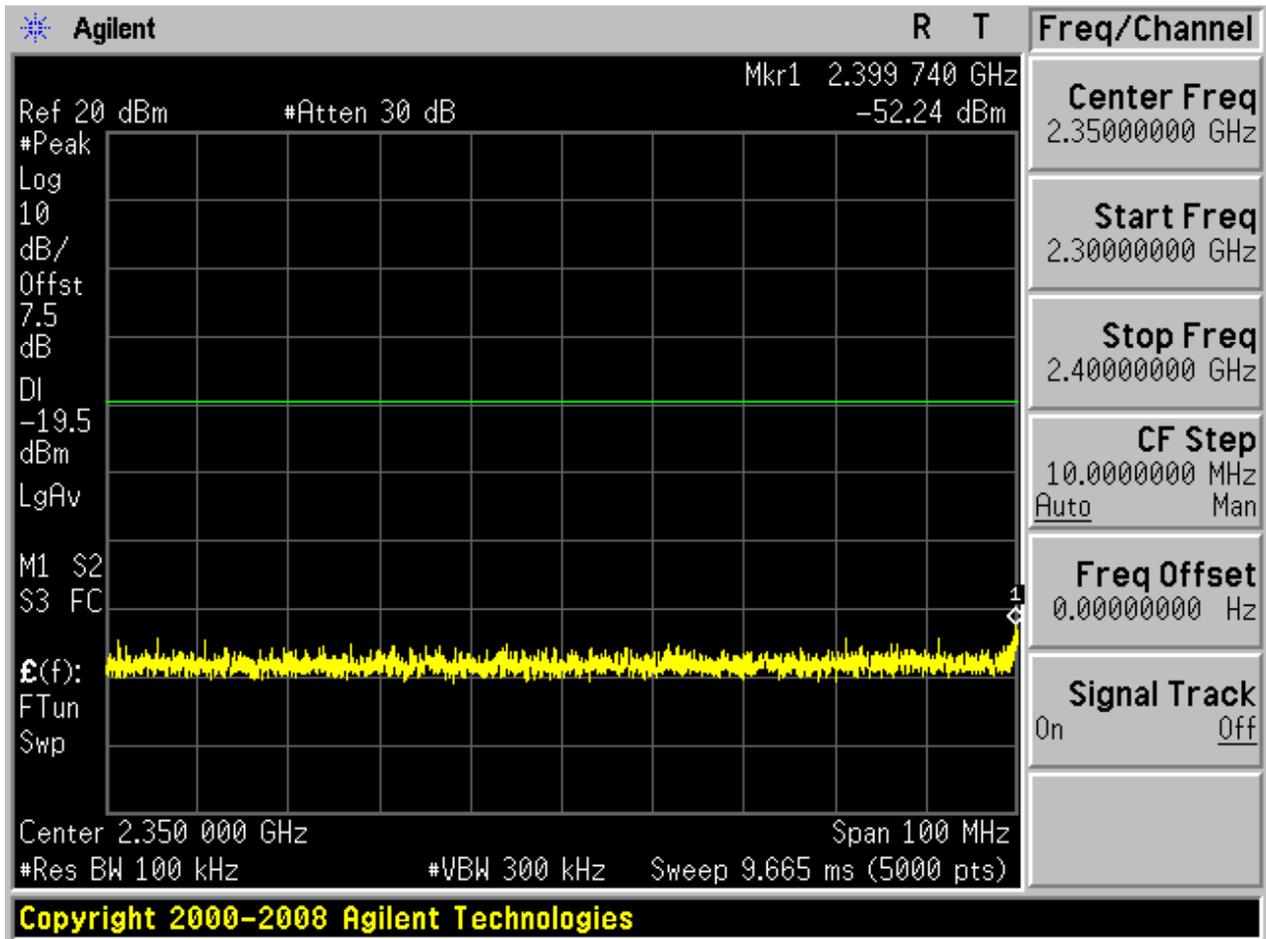


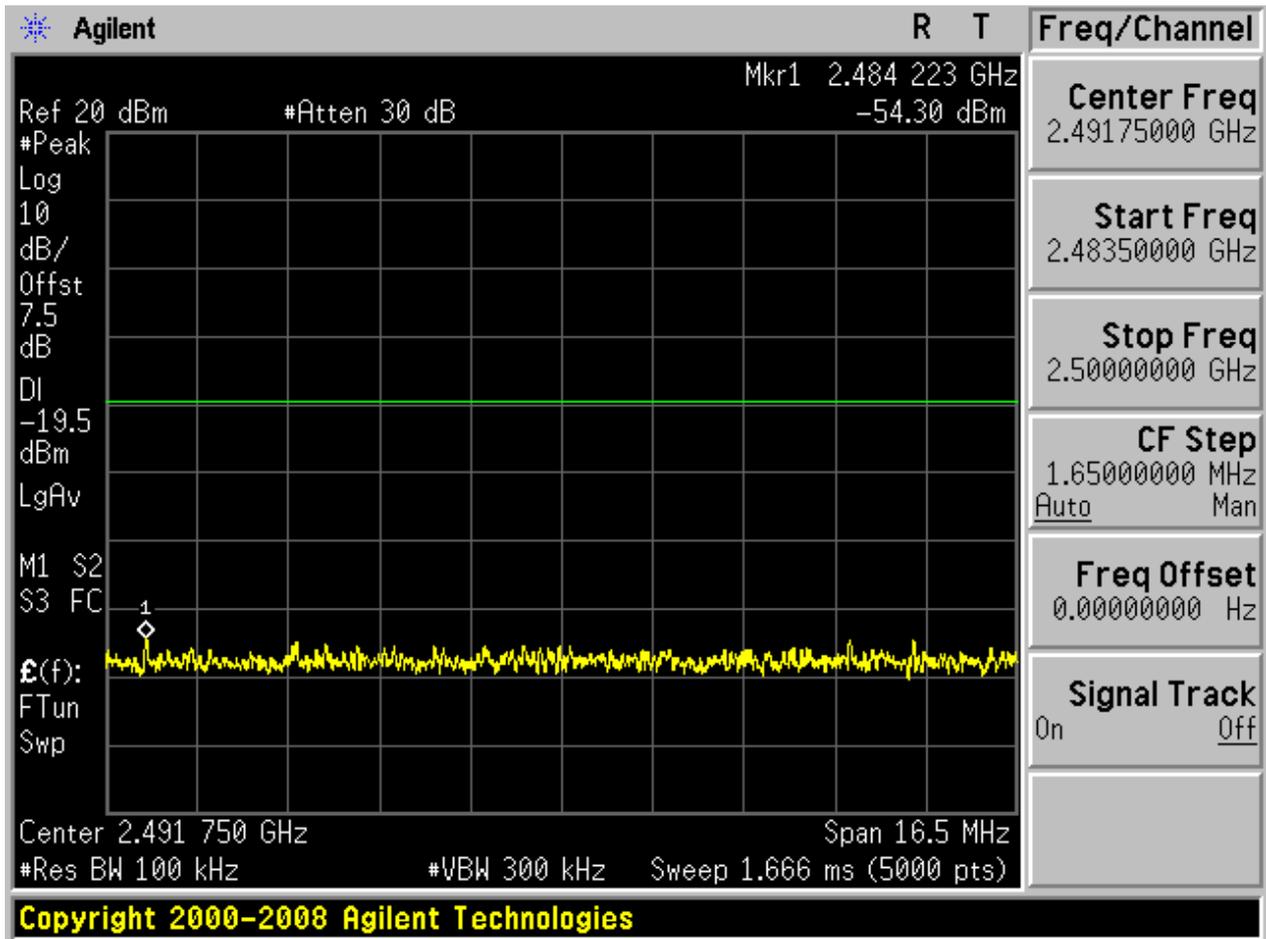
2.4.2 Puw

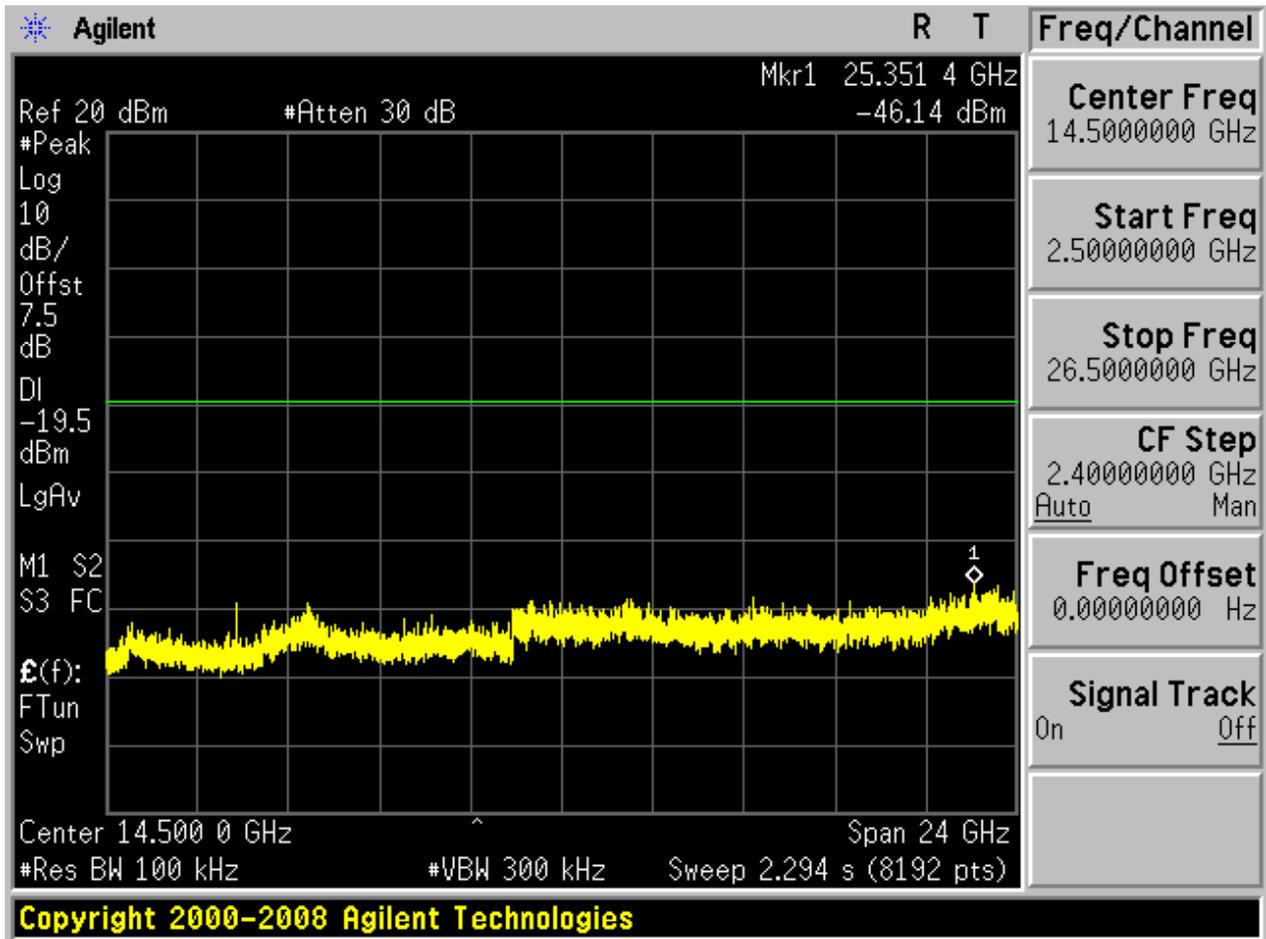








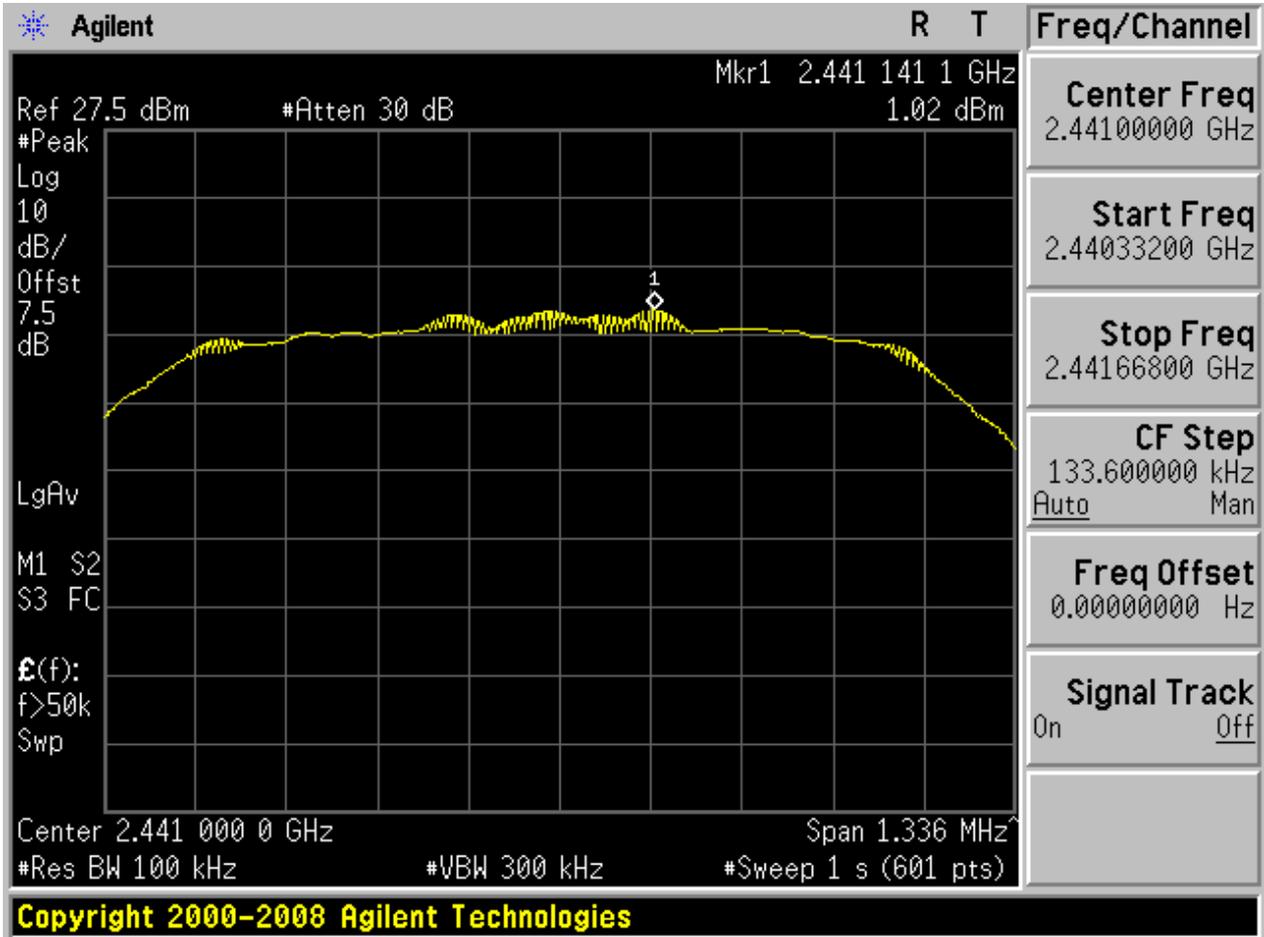






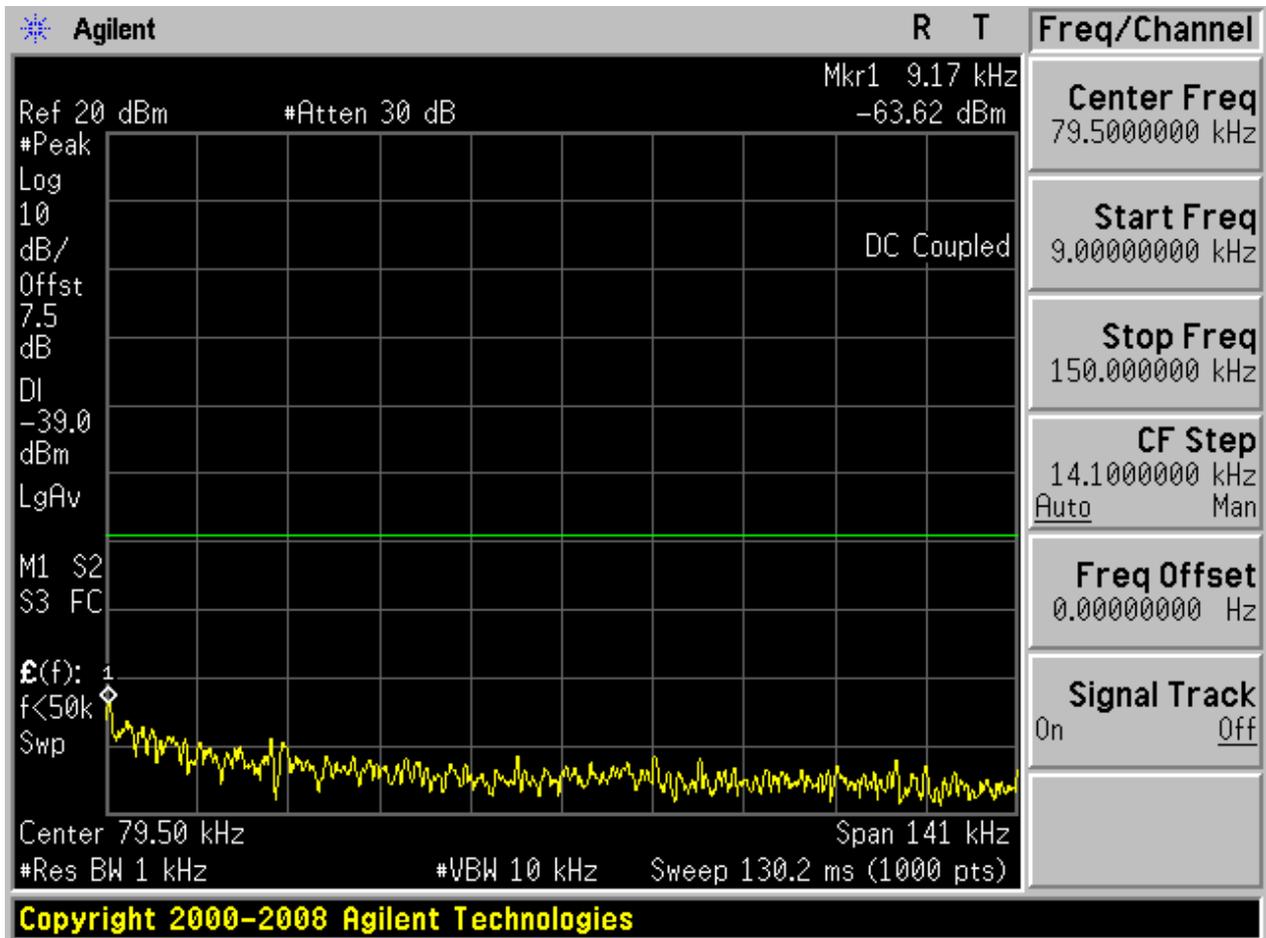
2.5 TM2_2DH5_Ch39

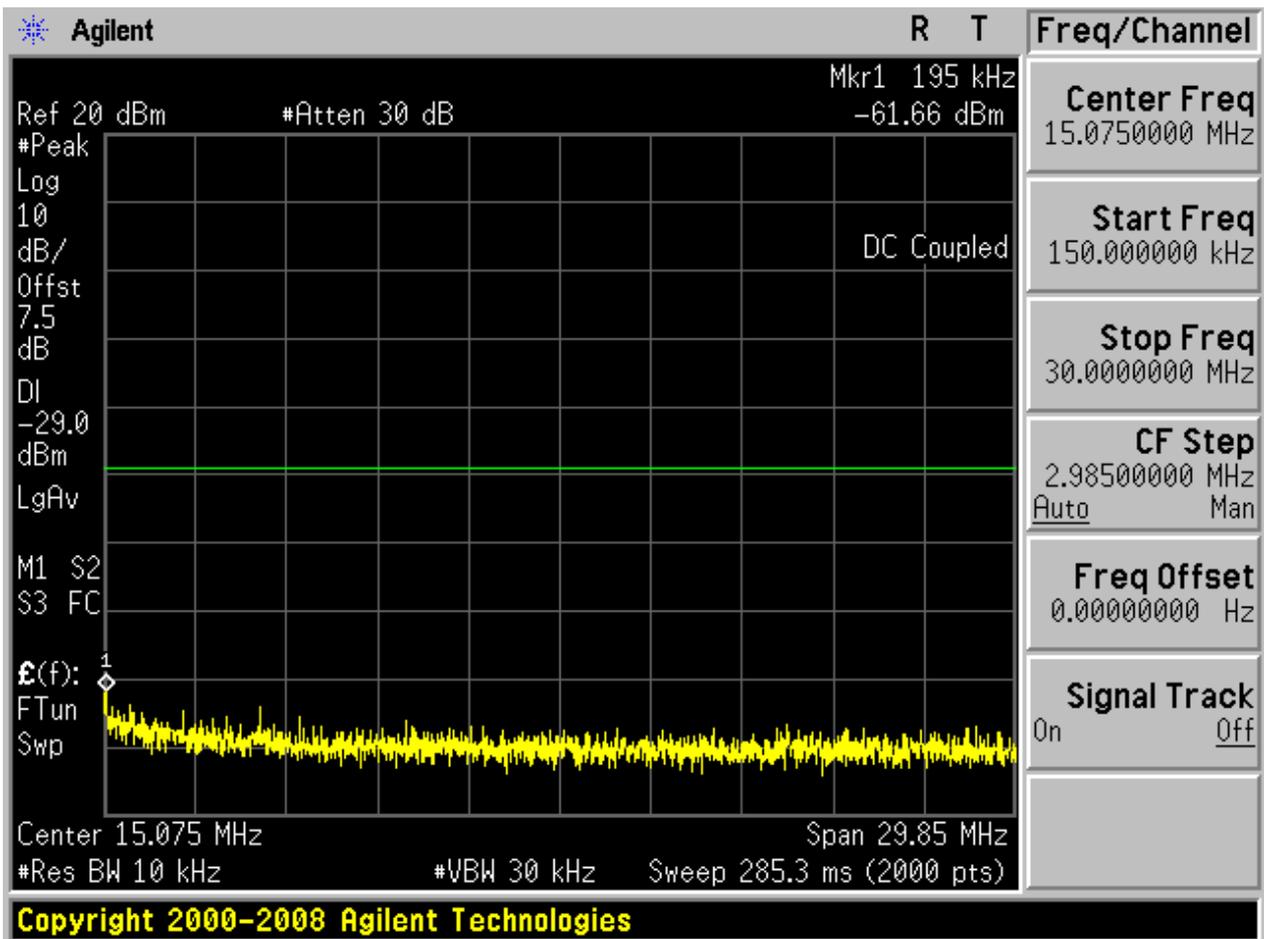
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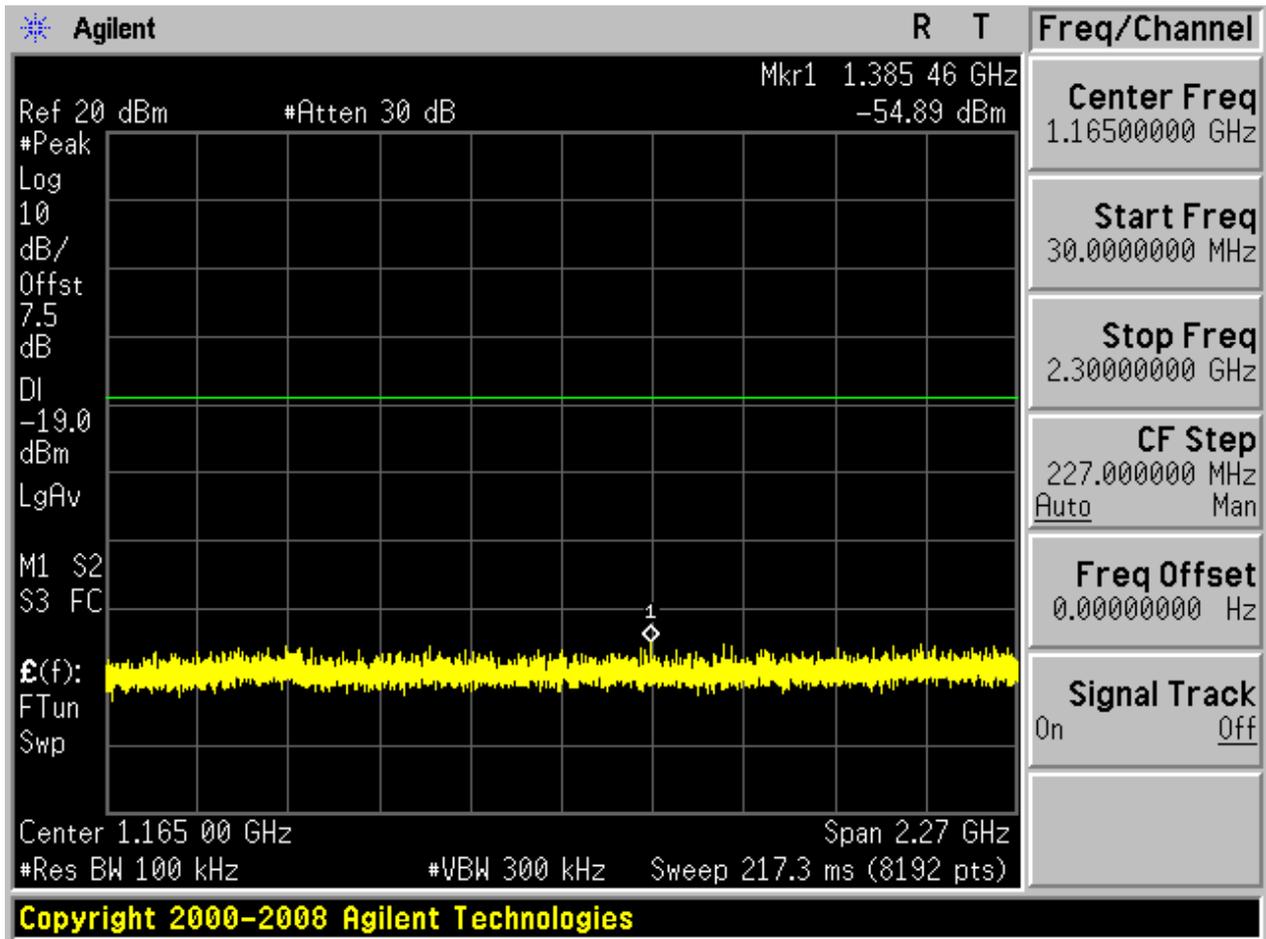


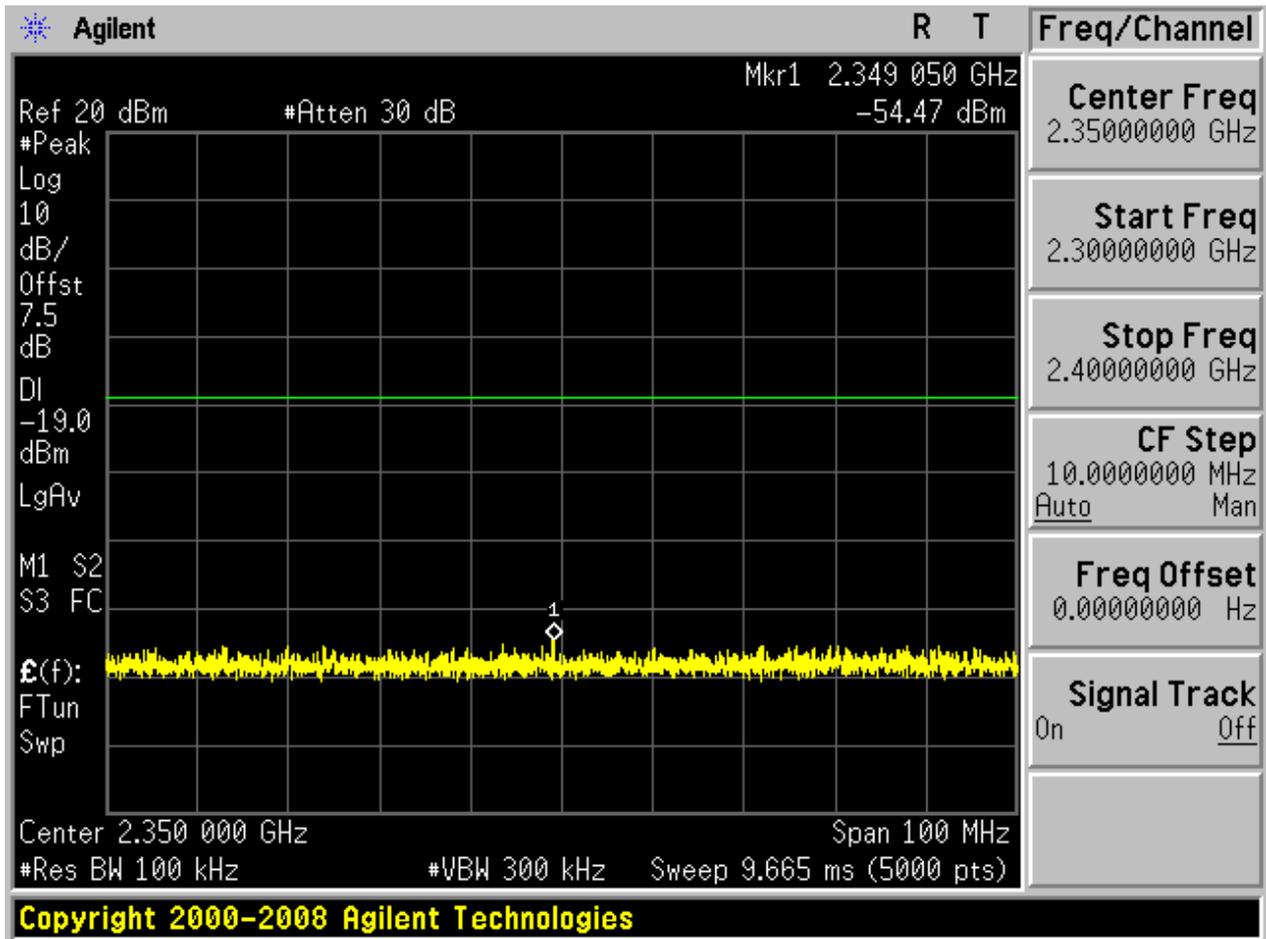


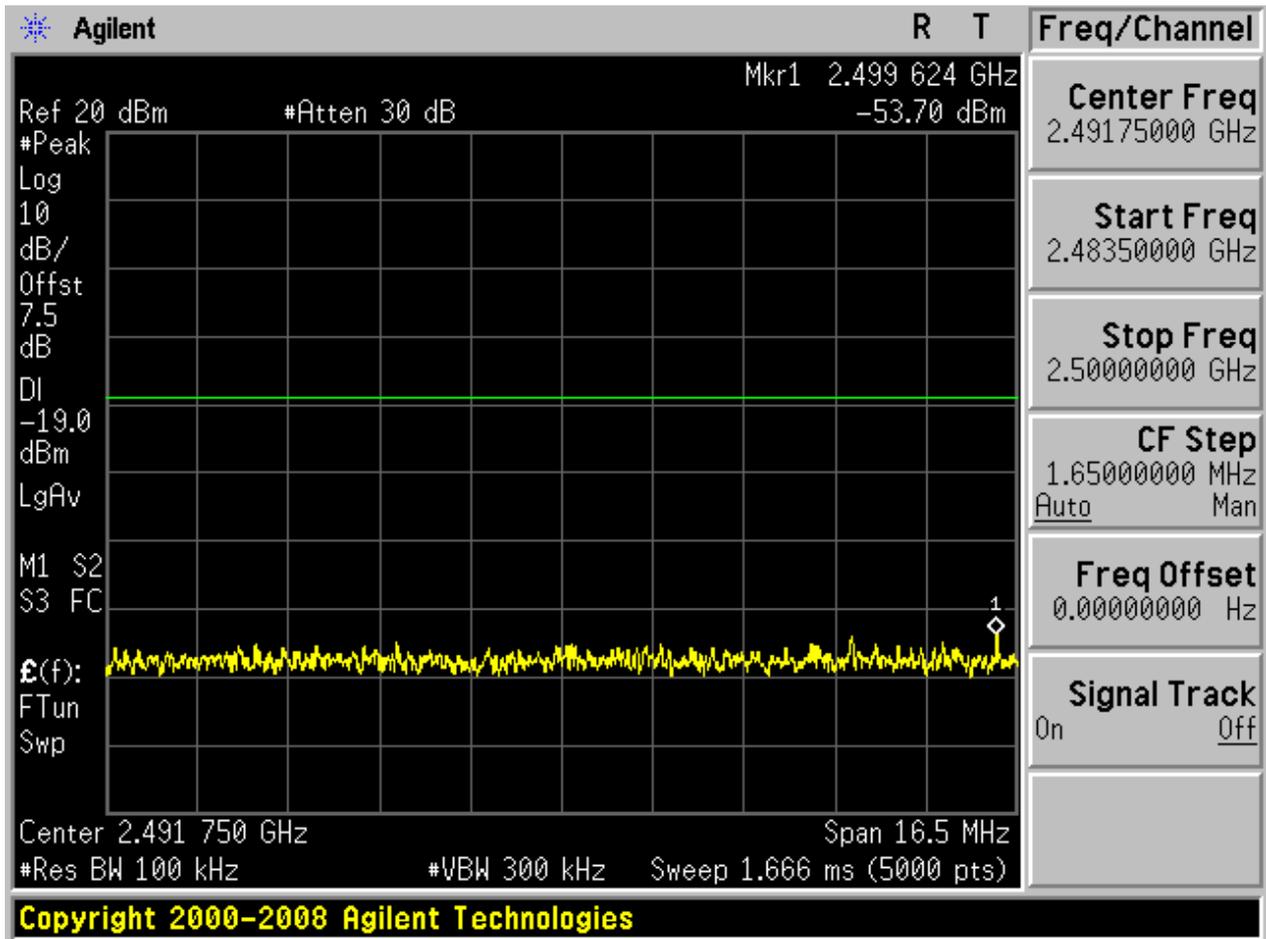
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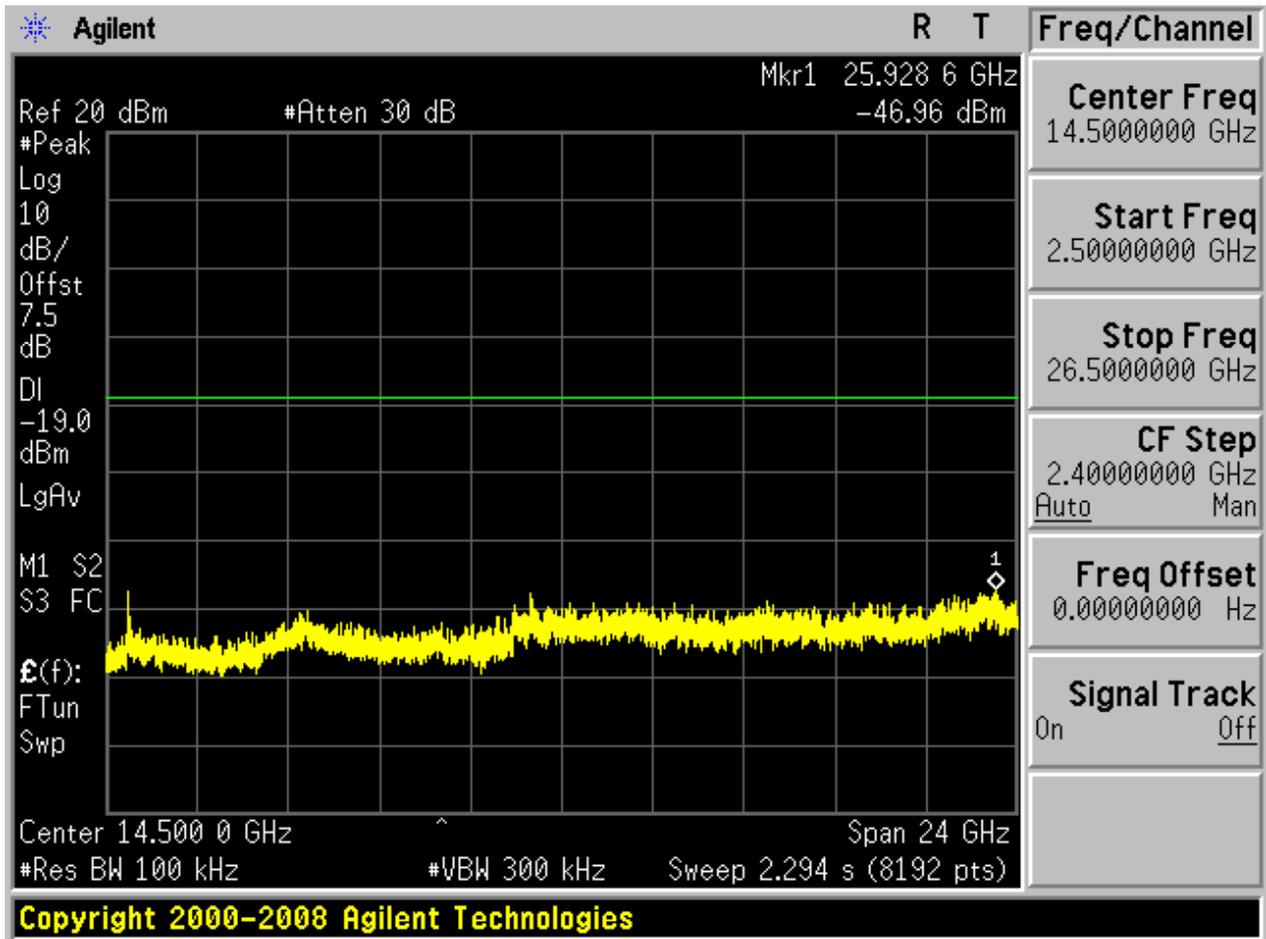








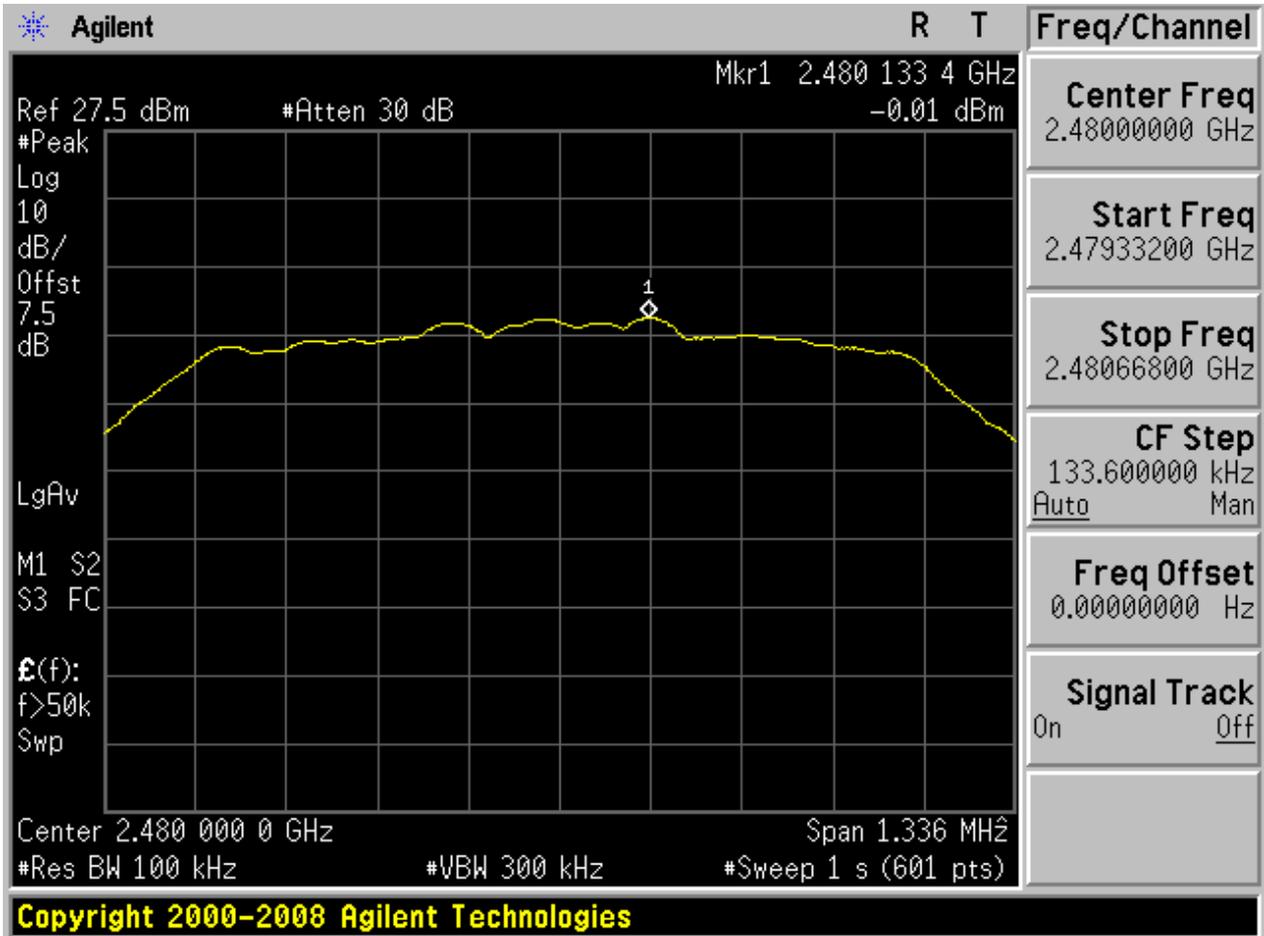






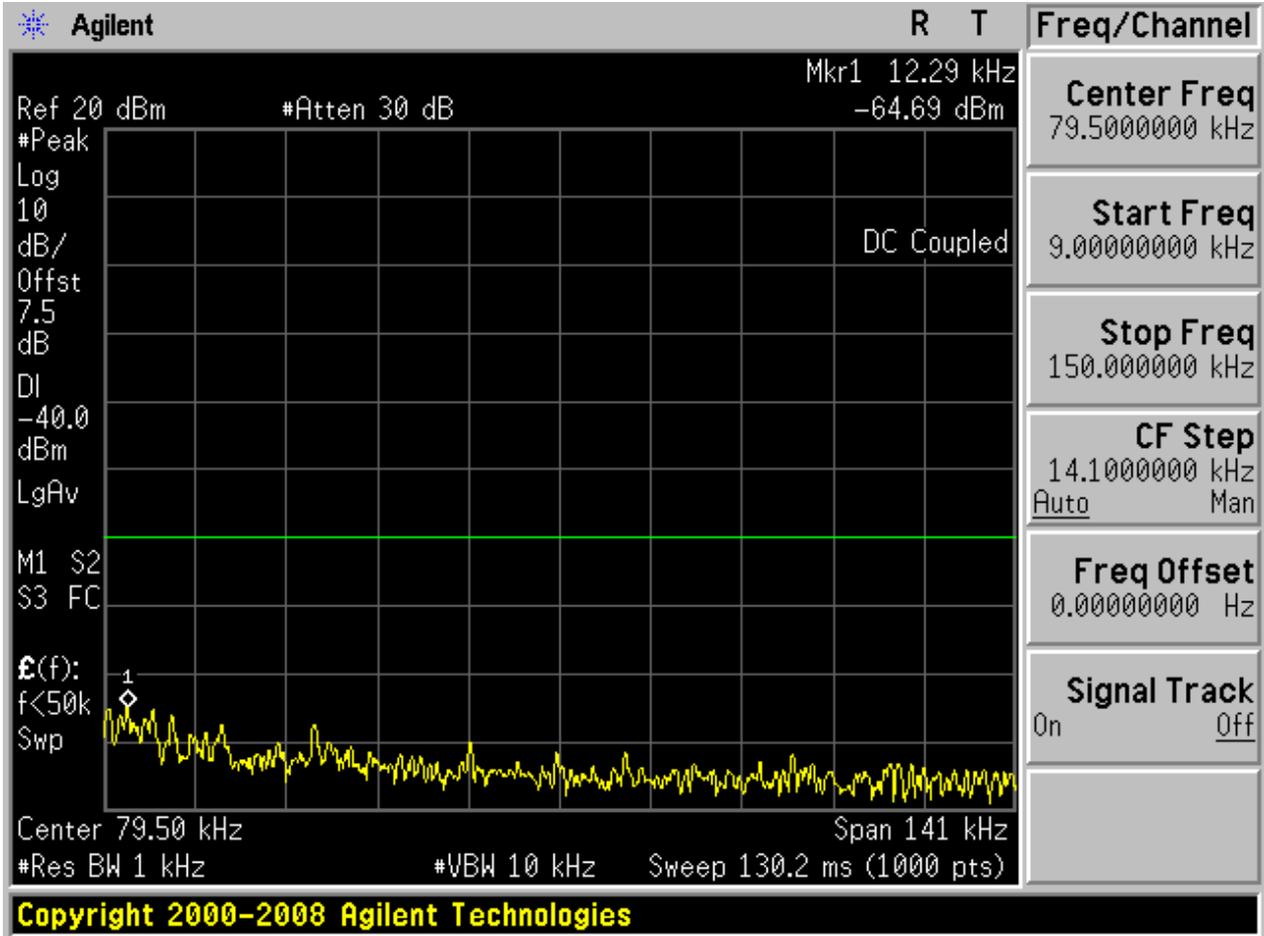
2.6 TM2_2DH5_Ch78

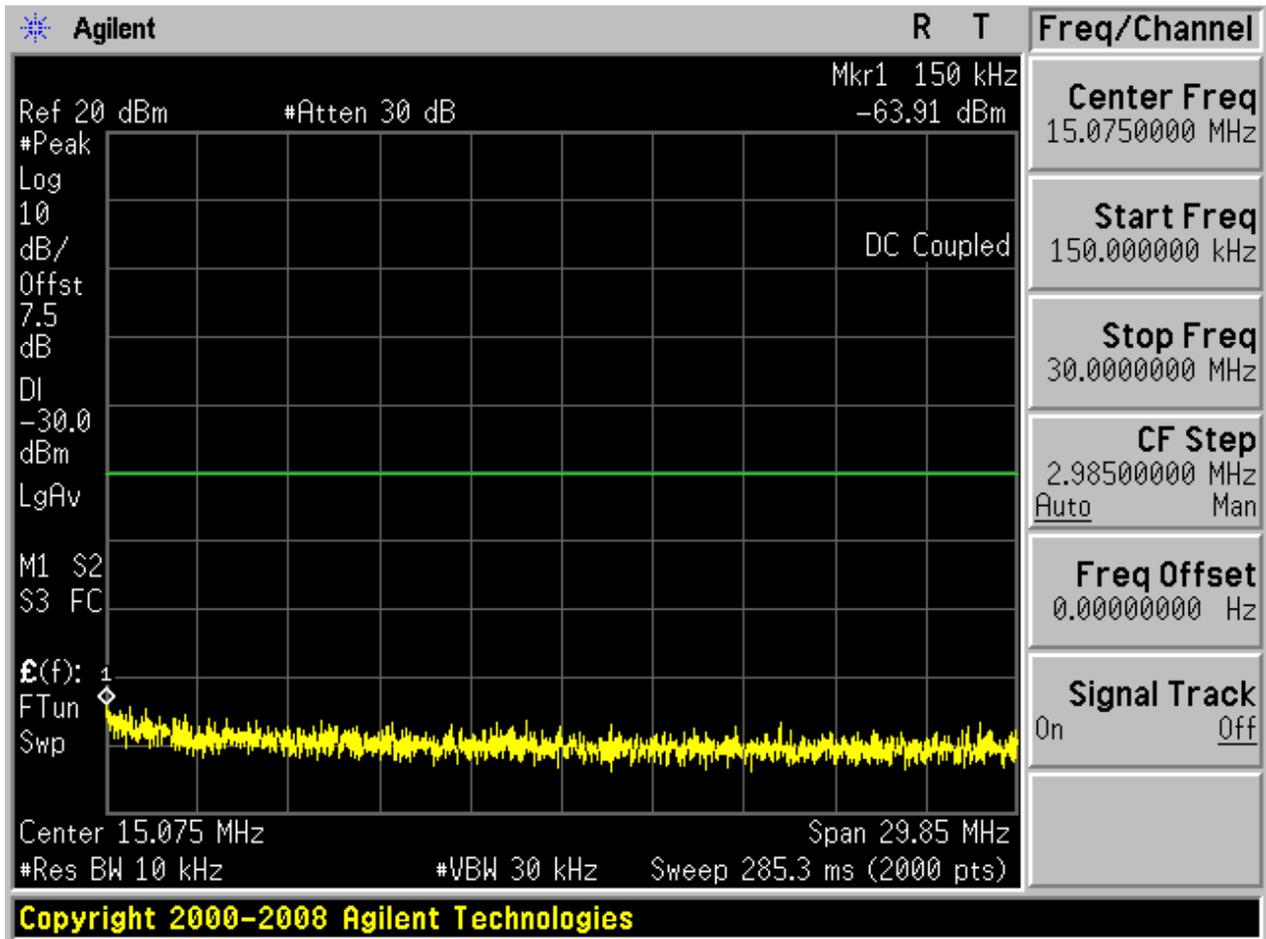
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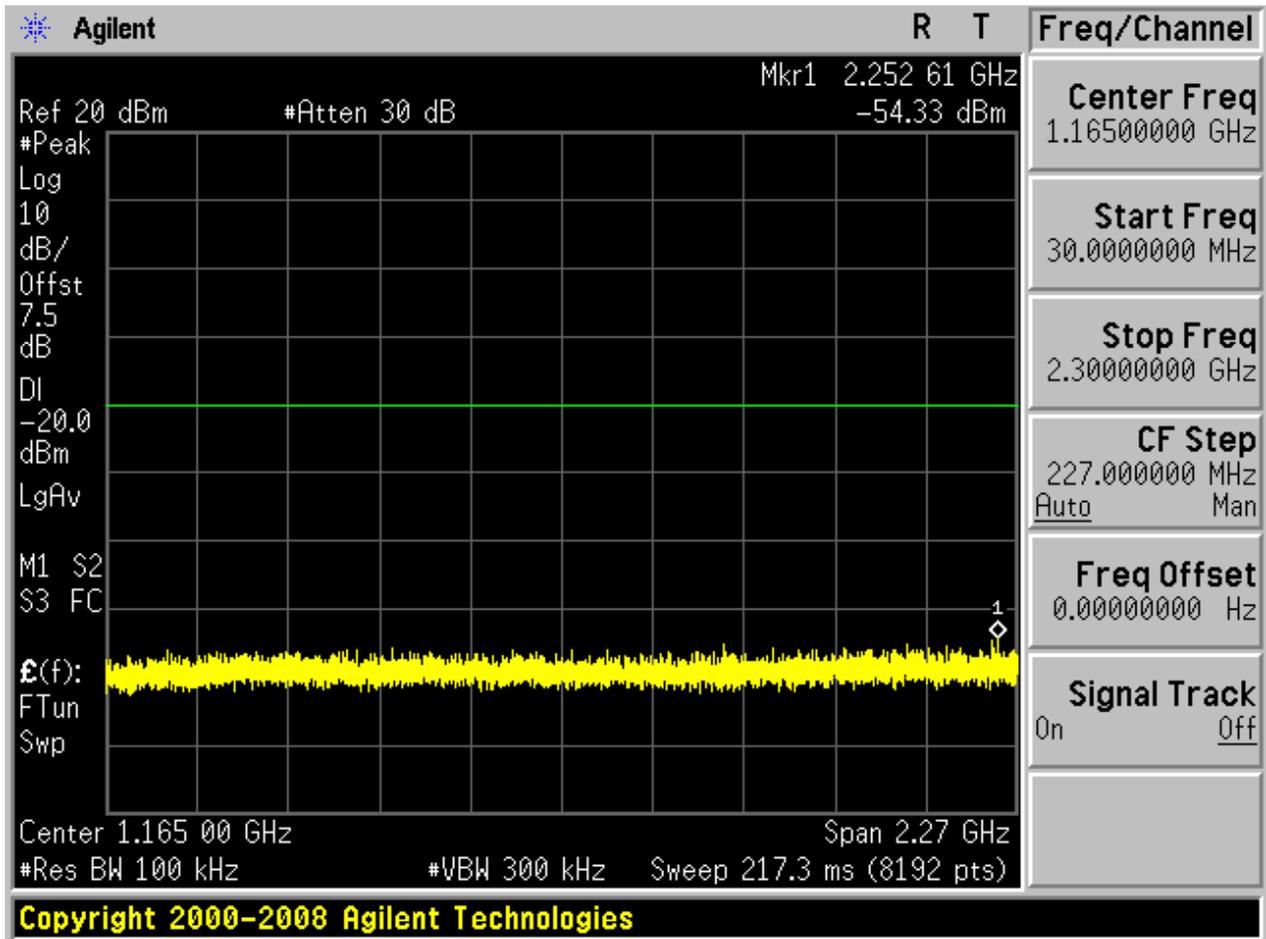


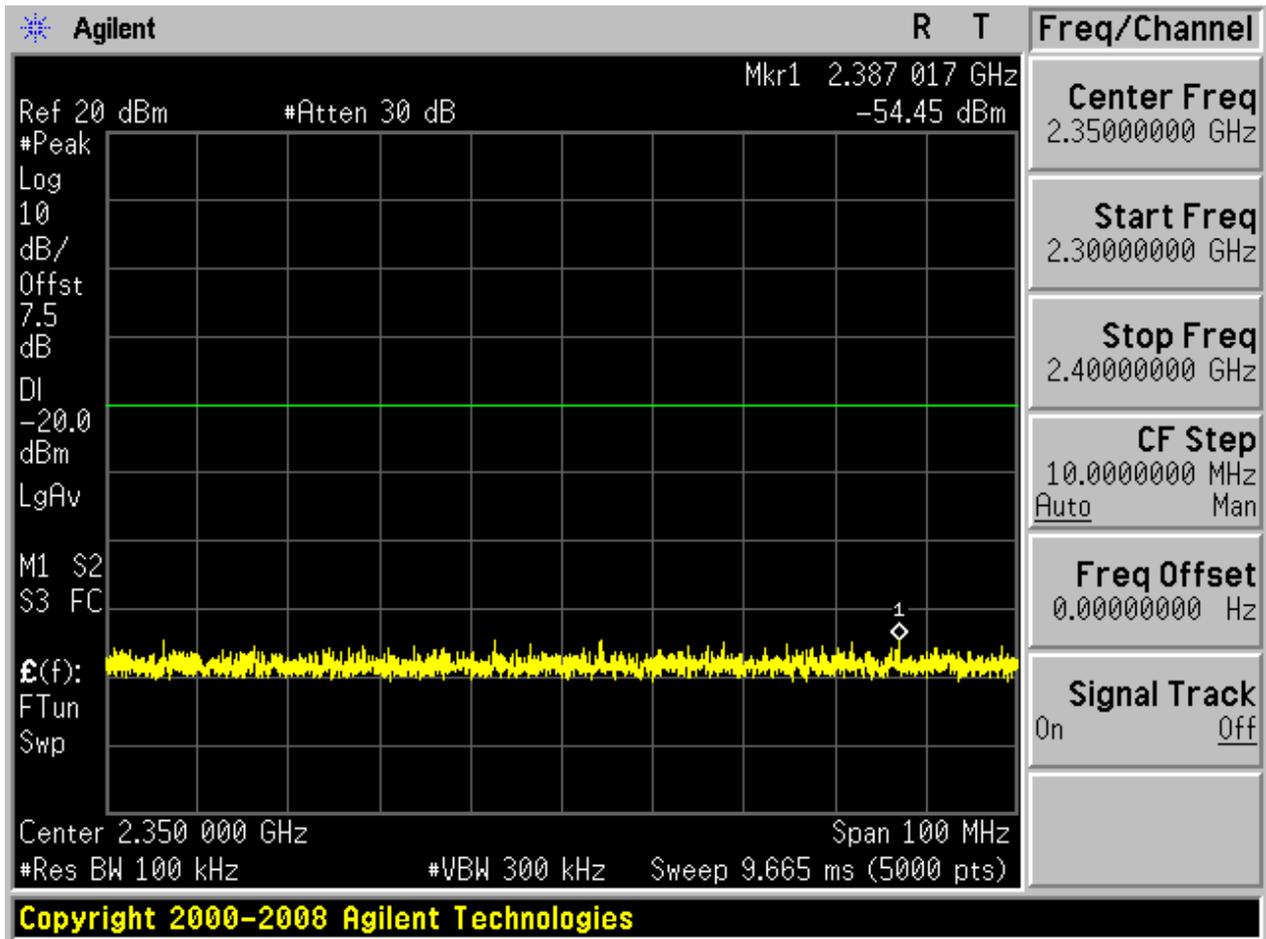


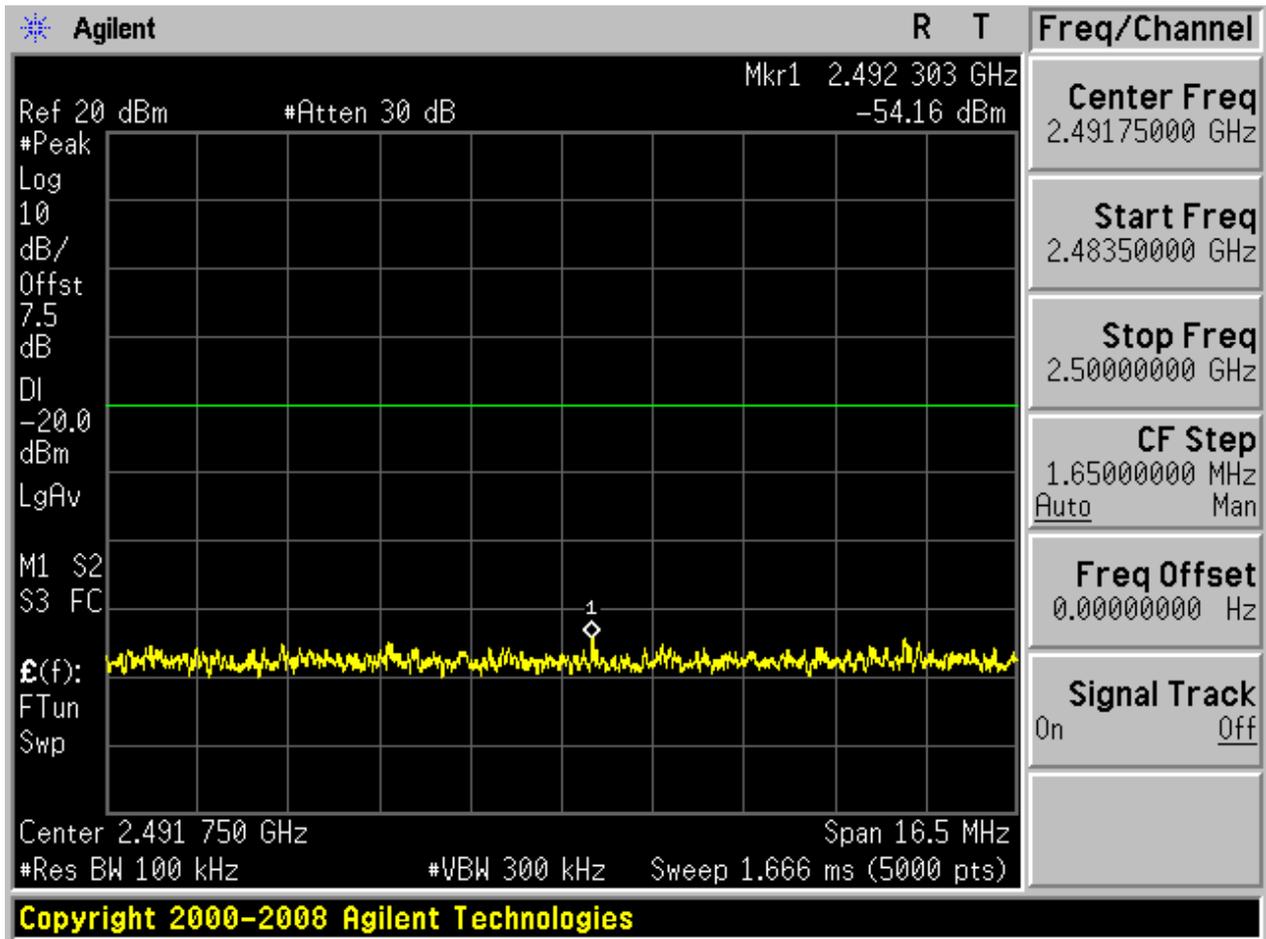
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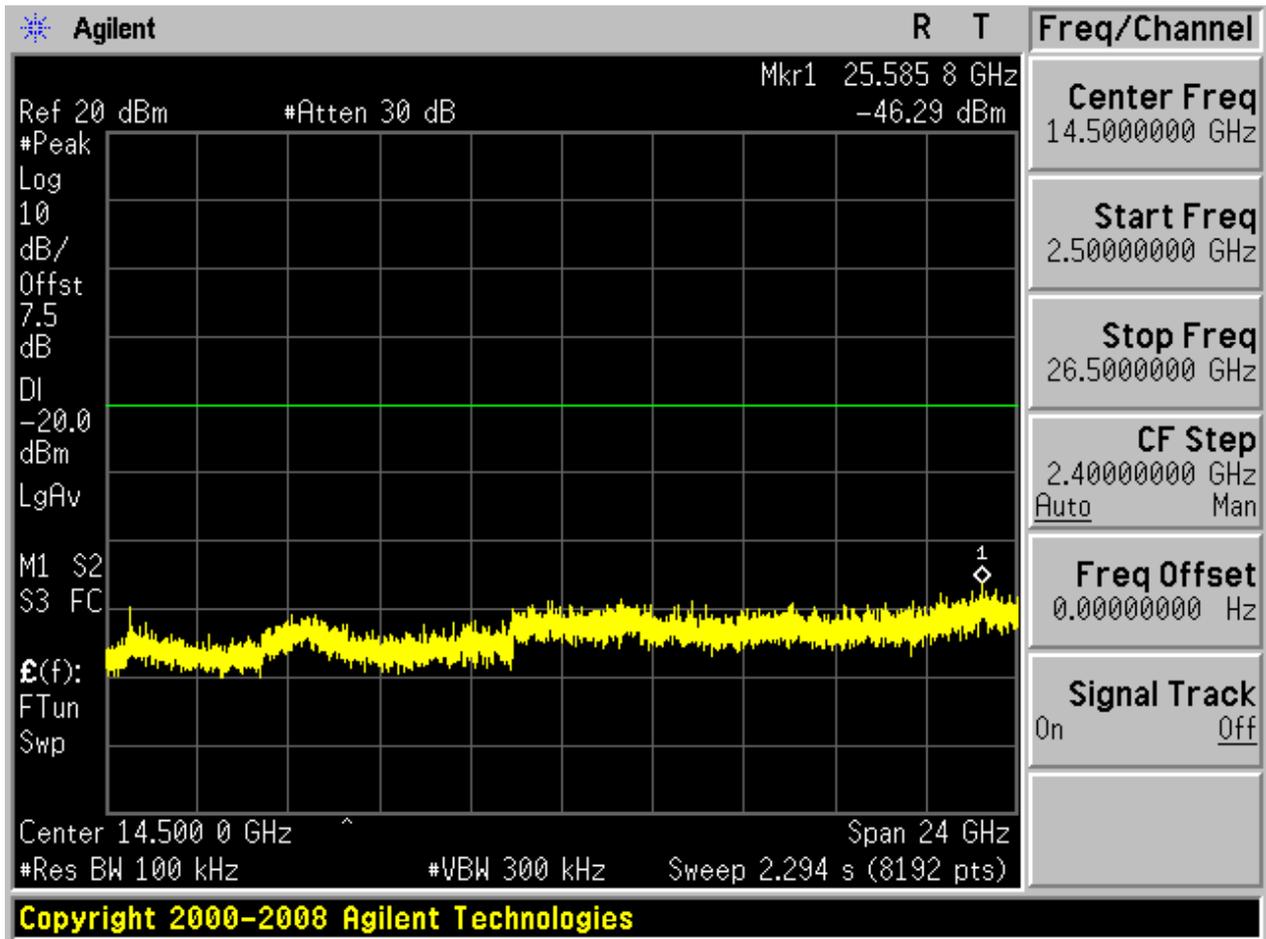








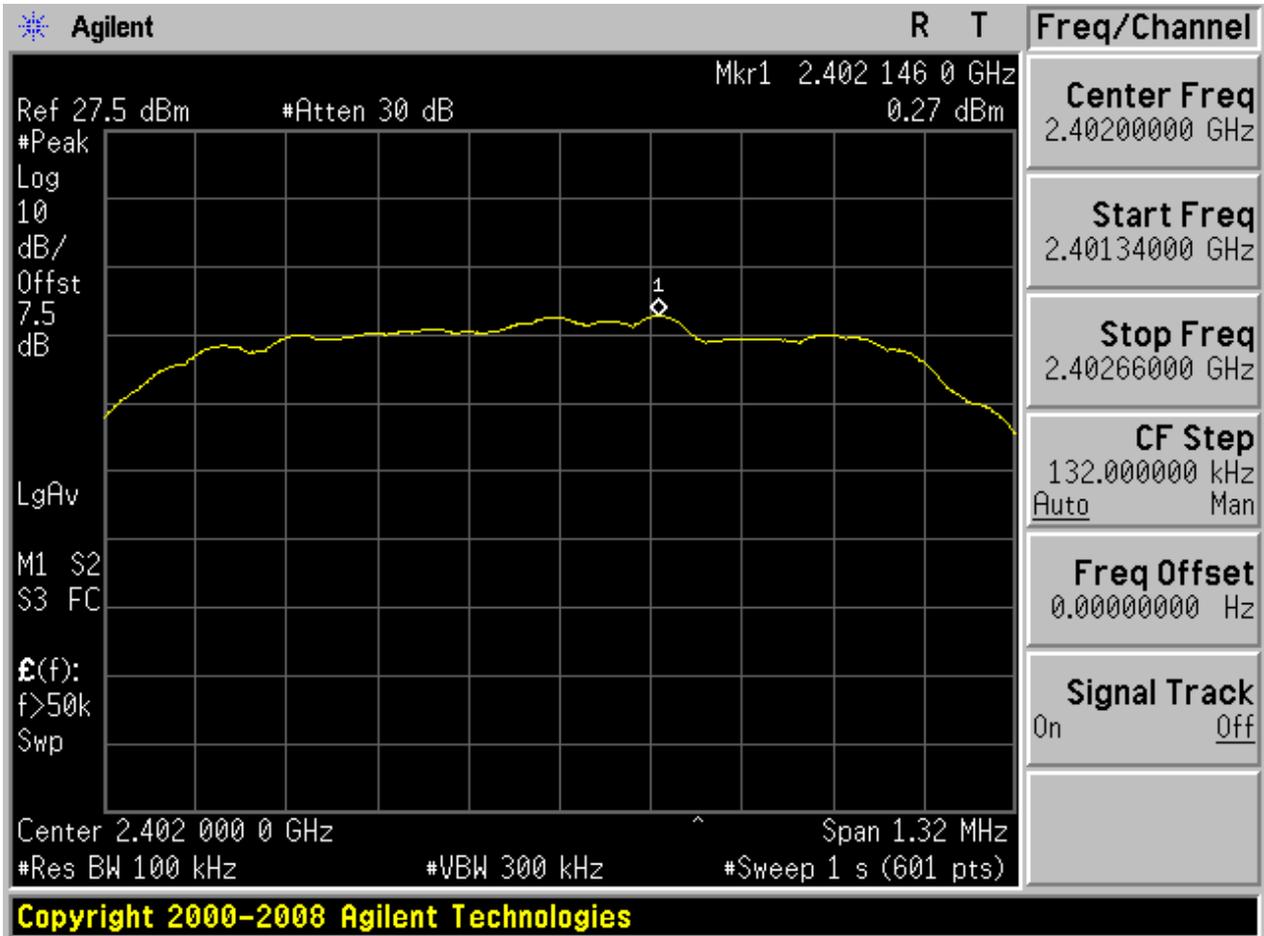






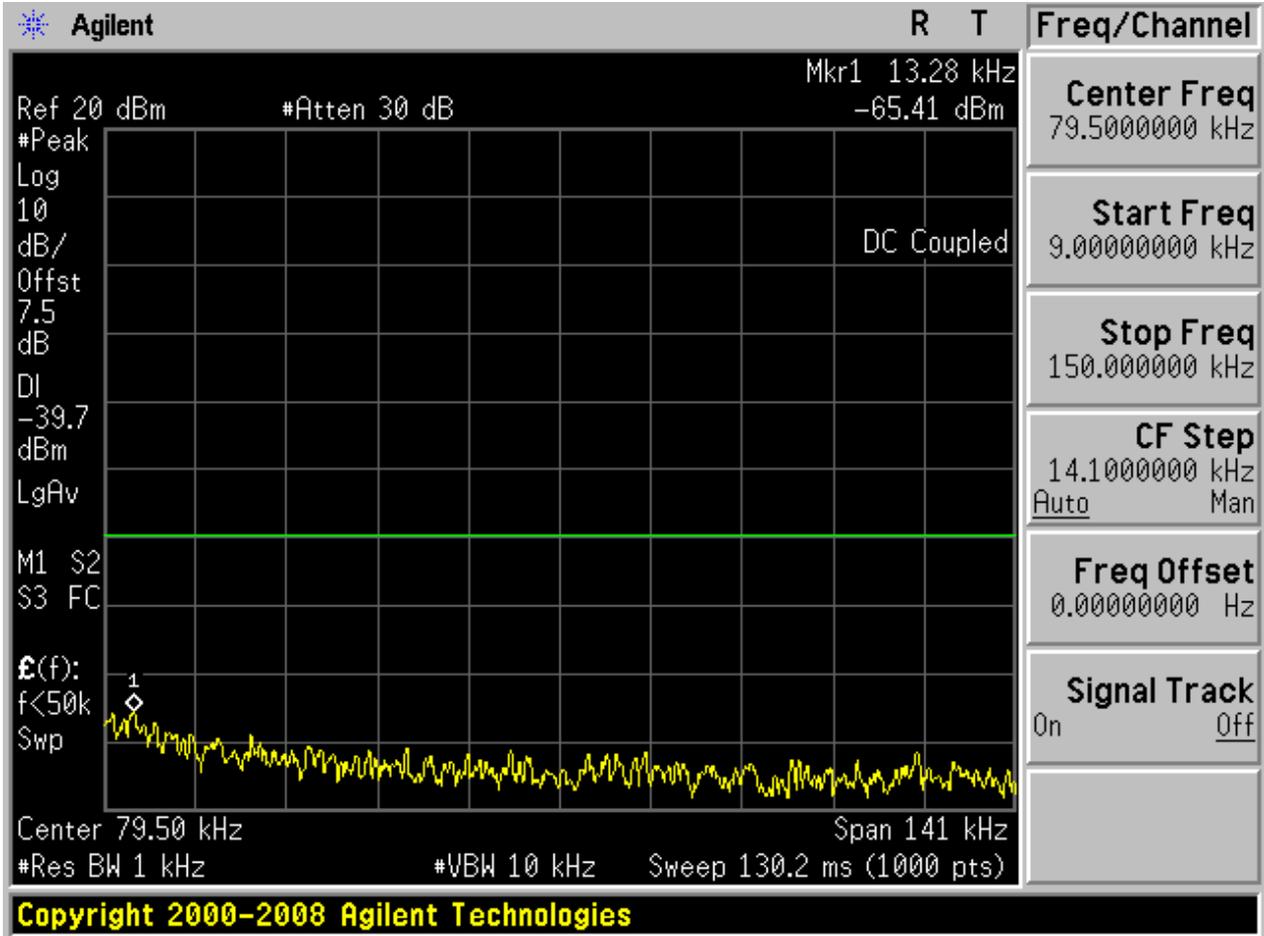
2.7 TM3_3DH5_Ch0

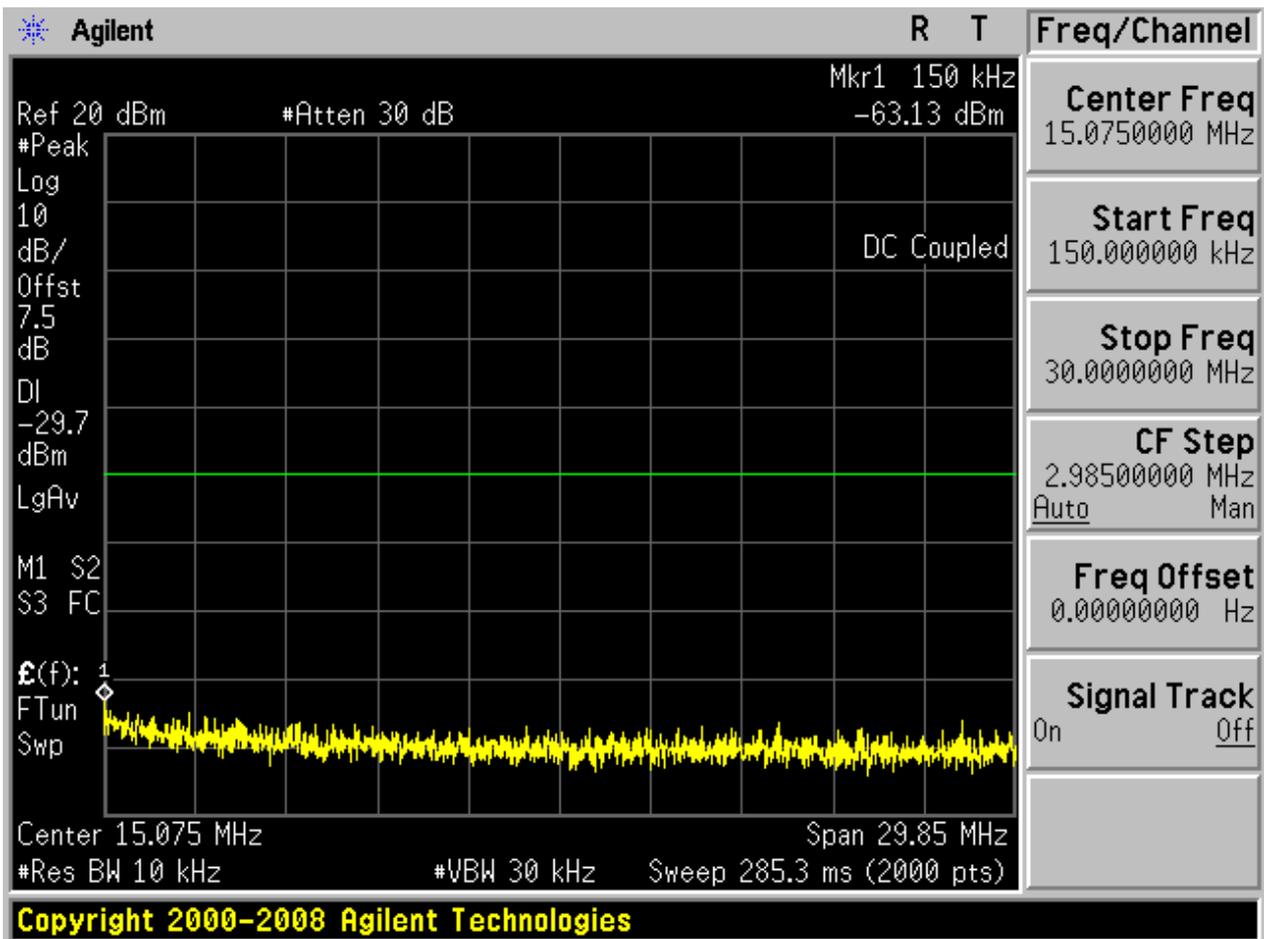
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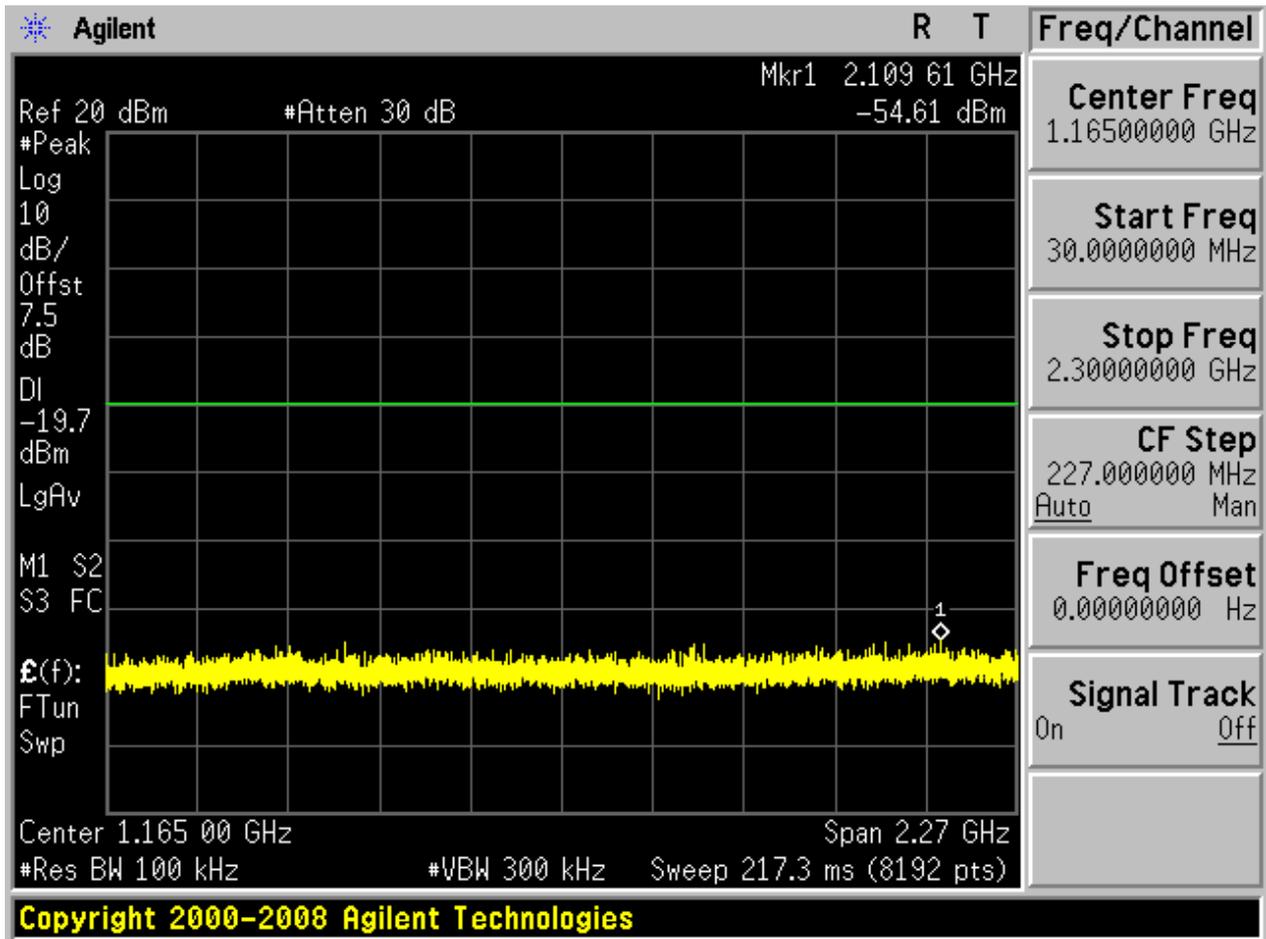


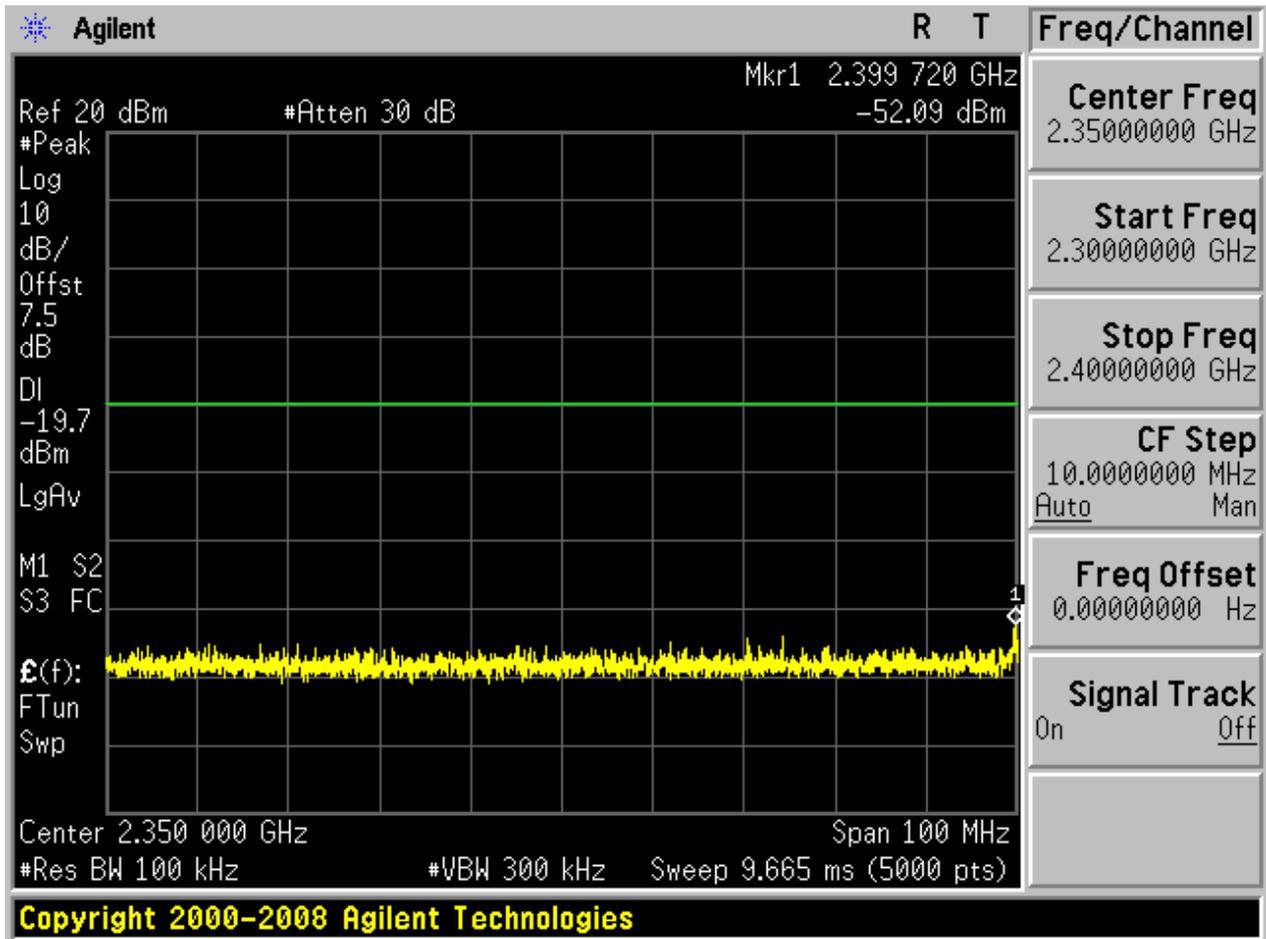


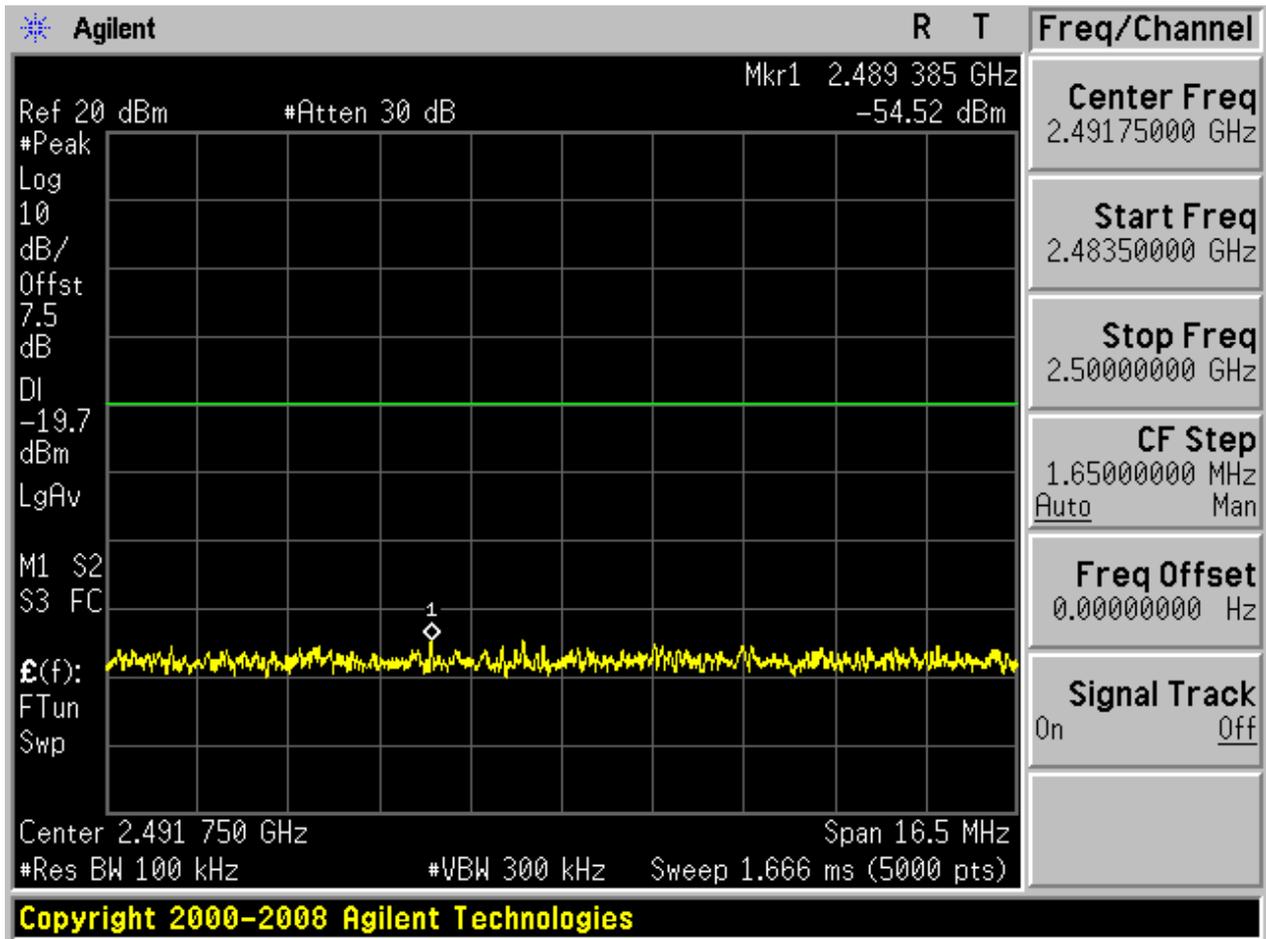
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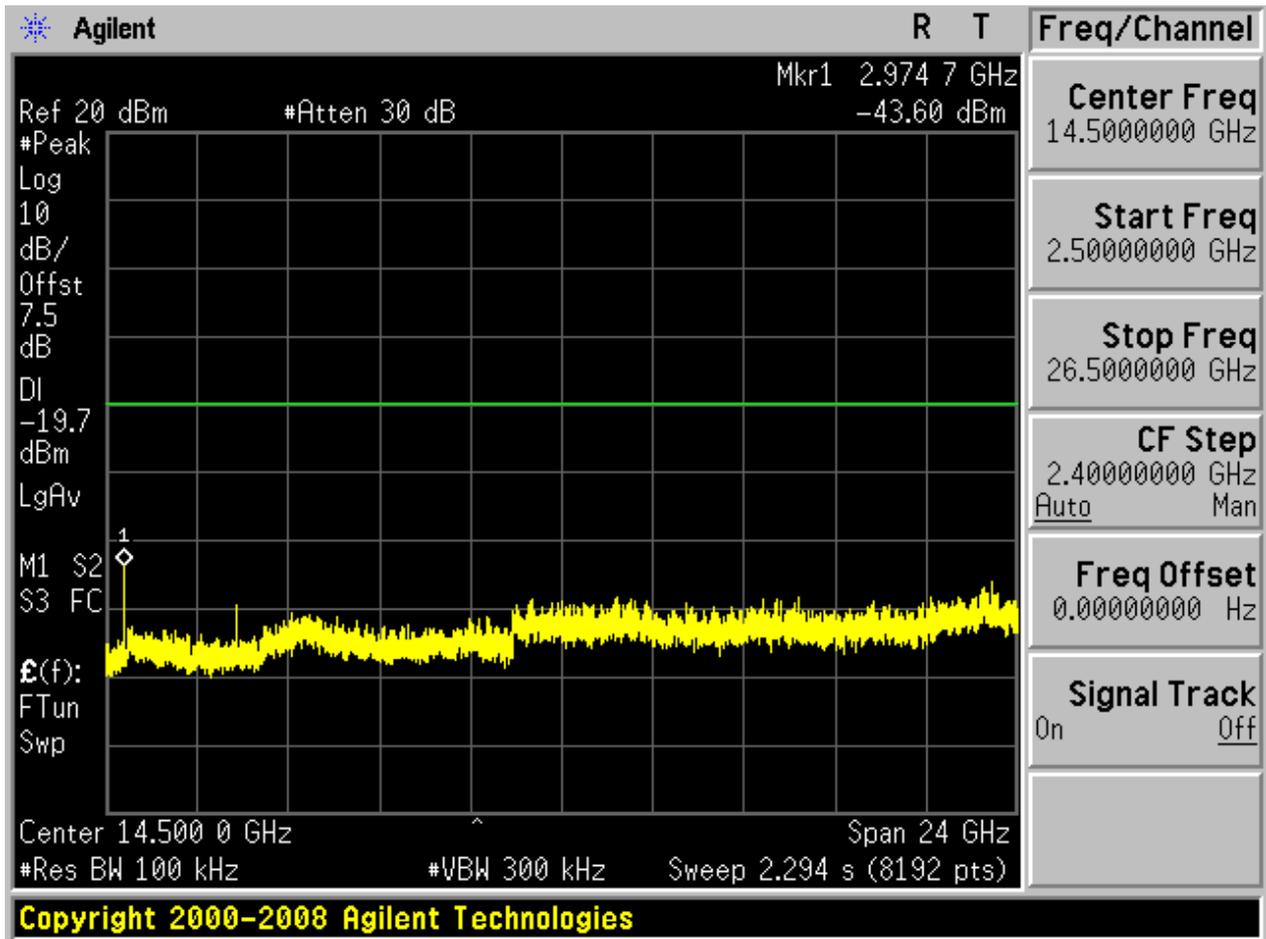








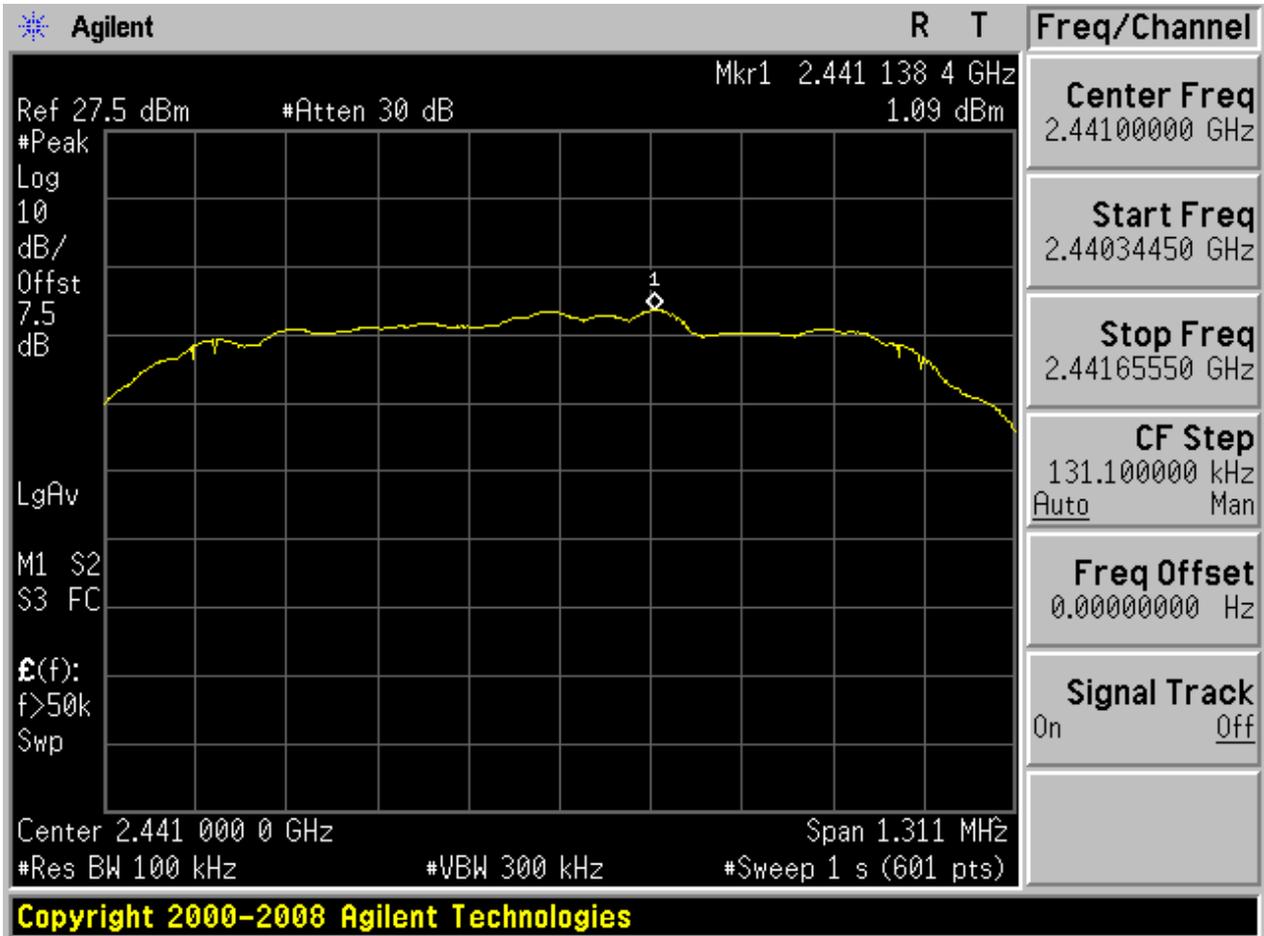






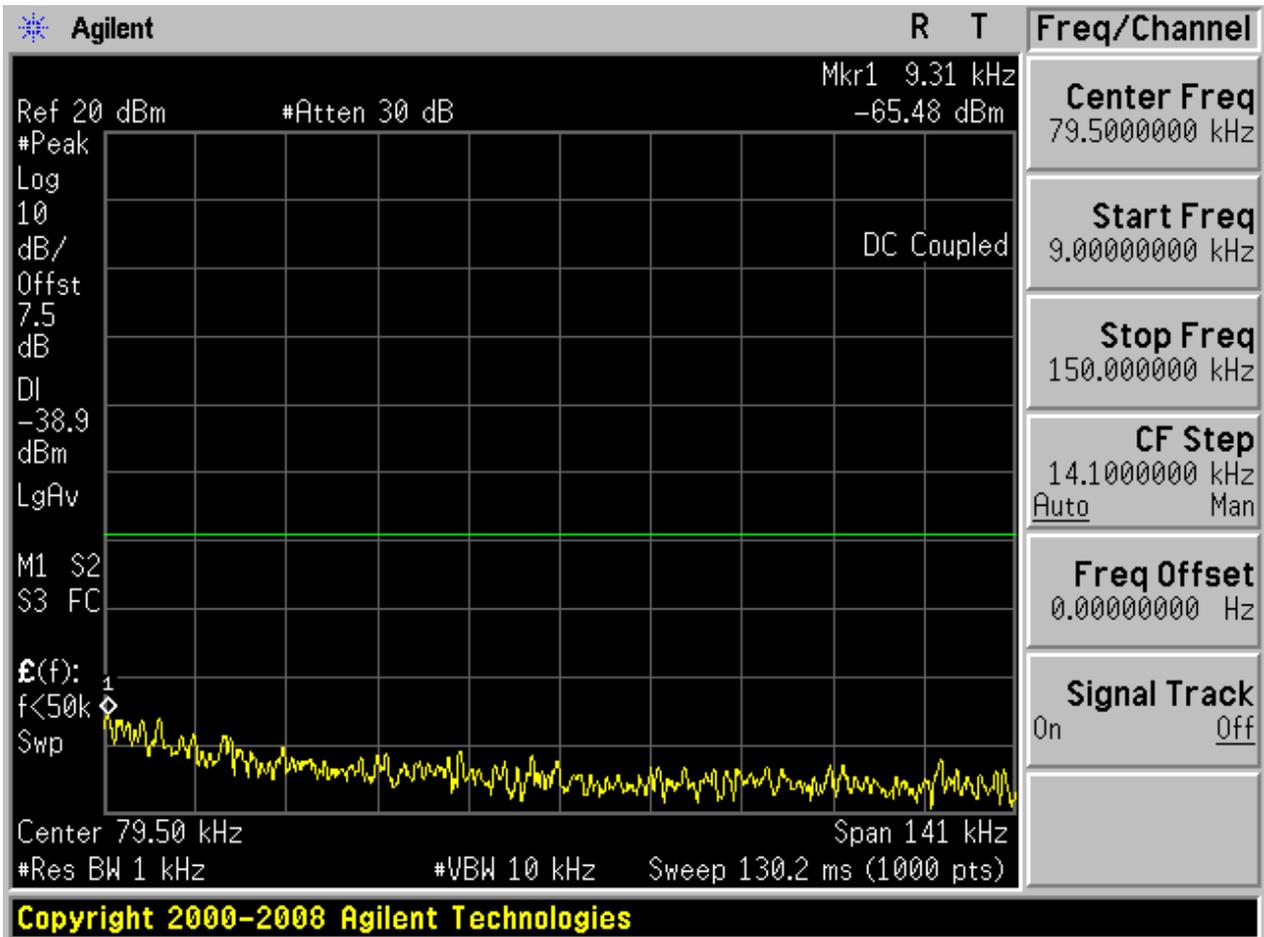
2.8 TM3_3DH5_Ch39

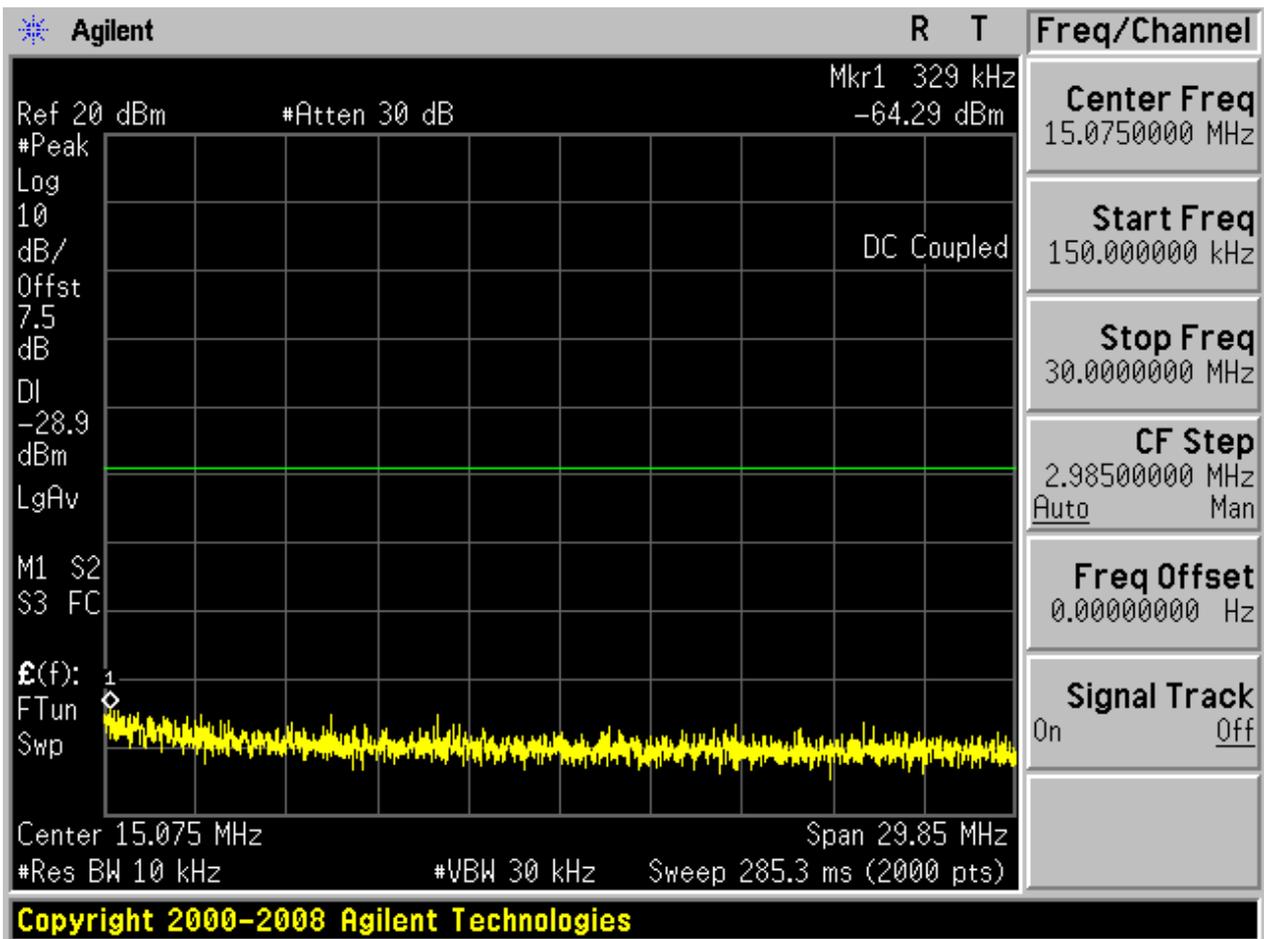
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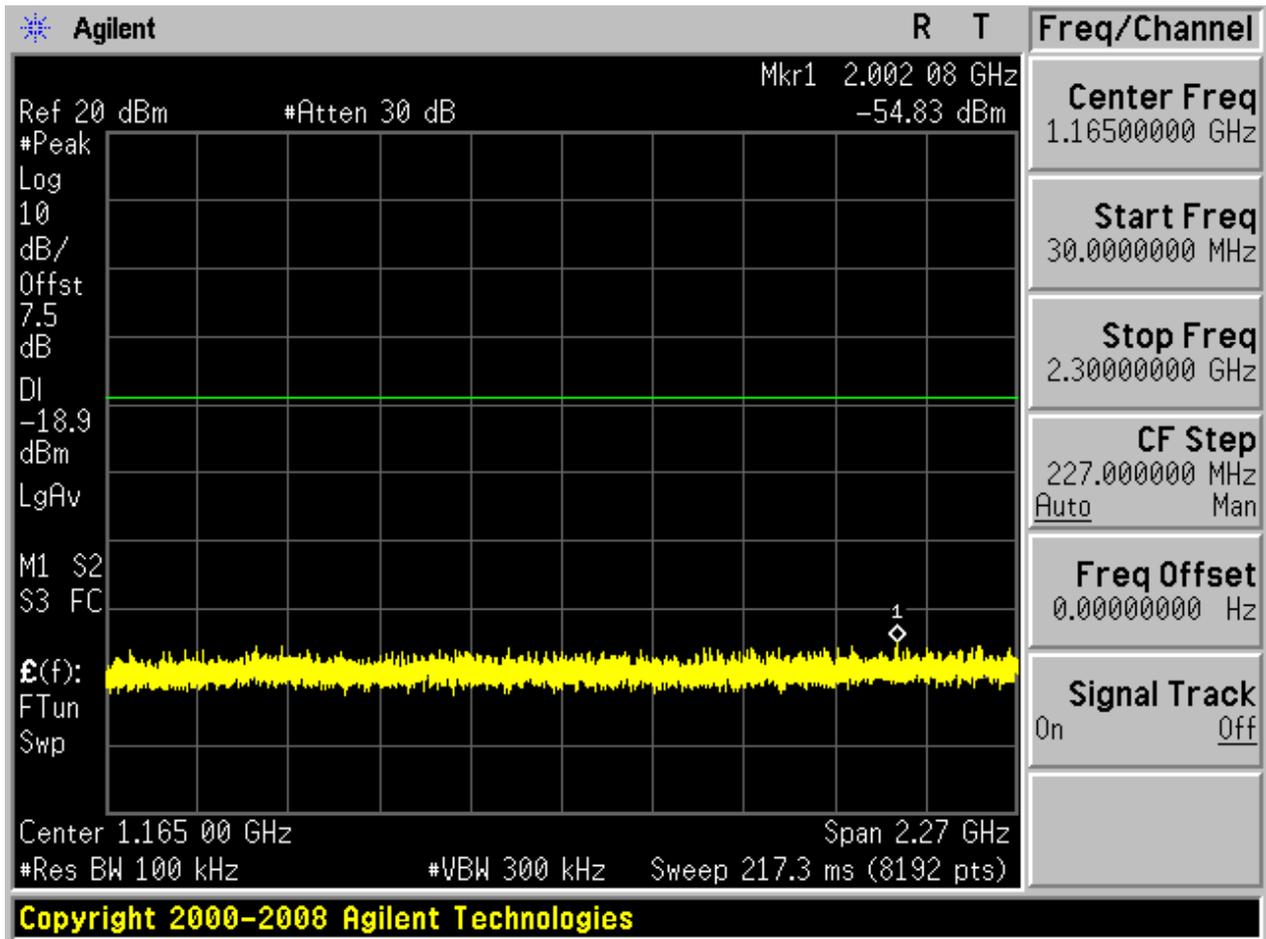


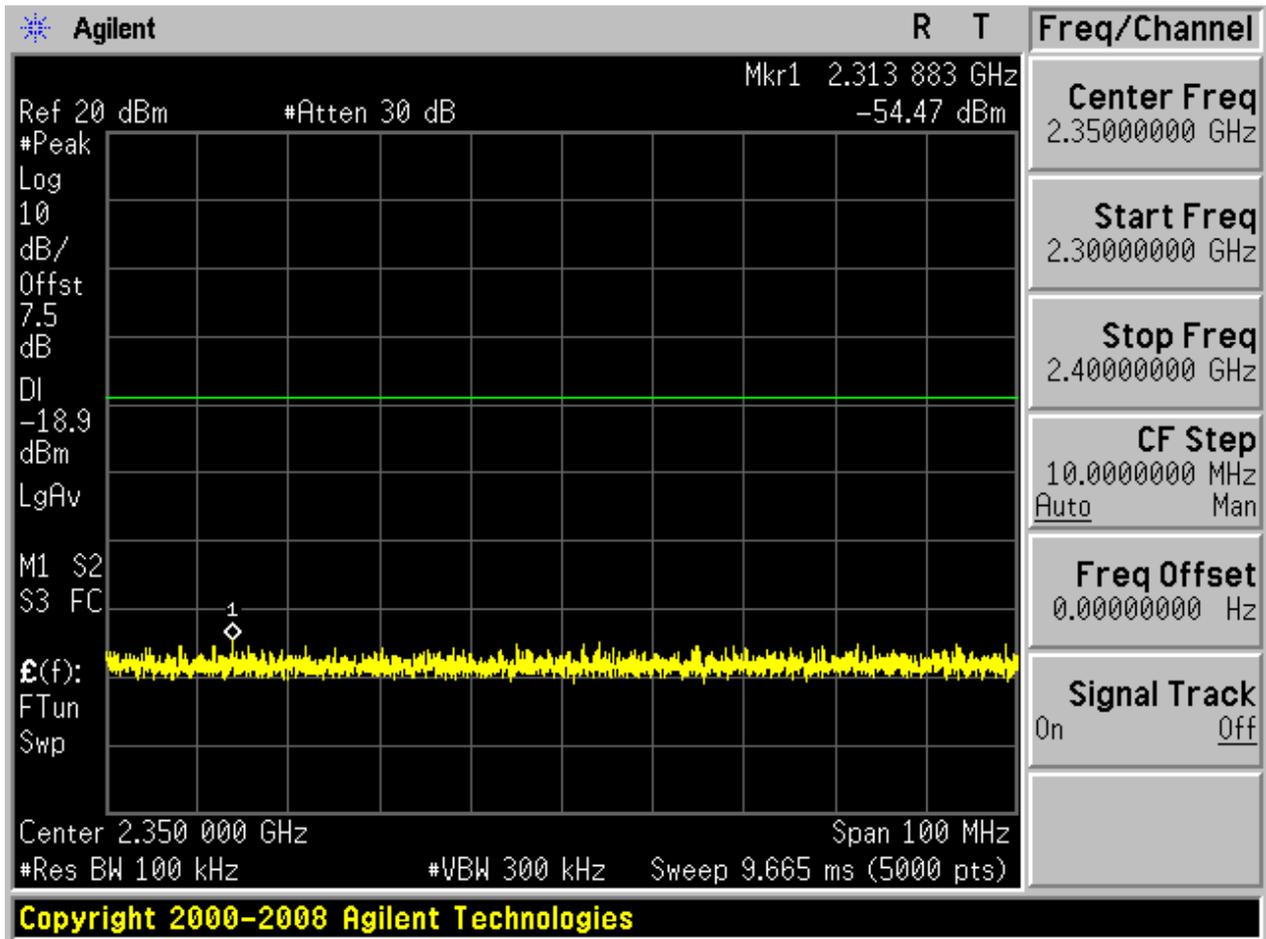


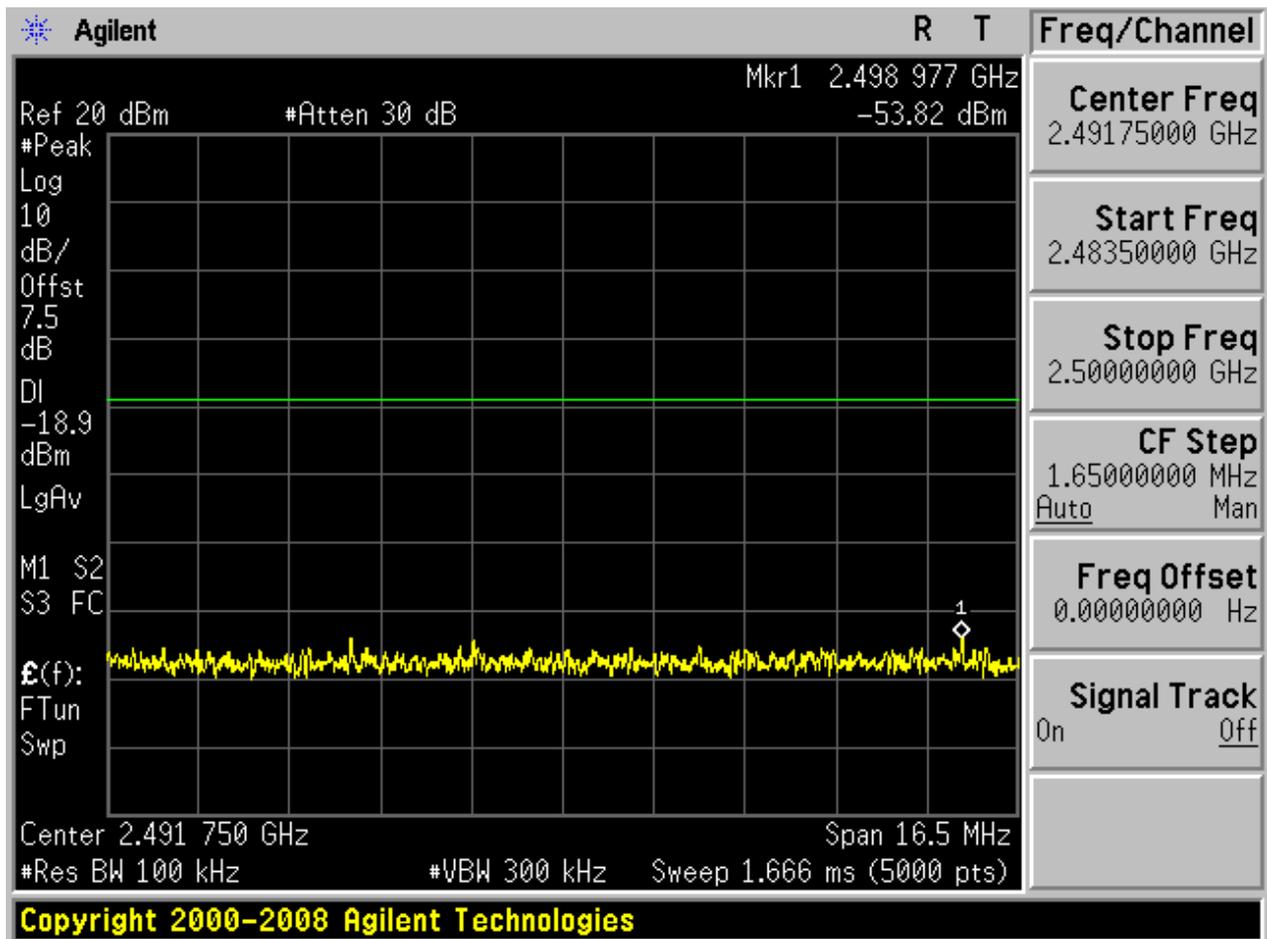
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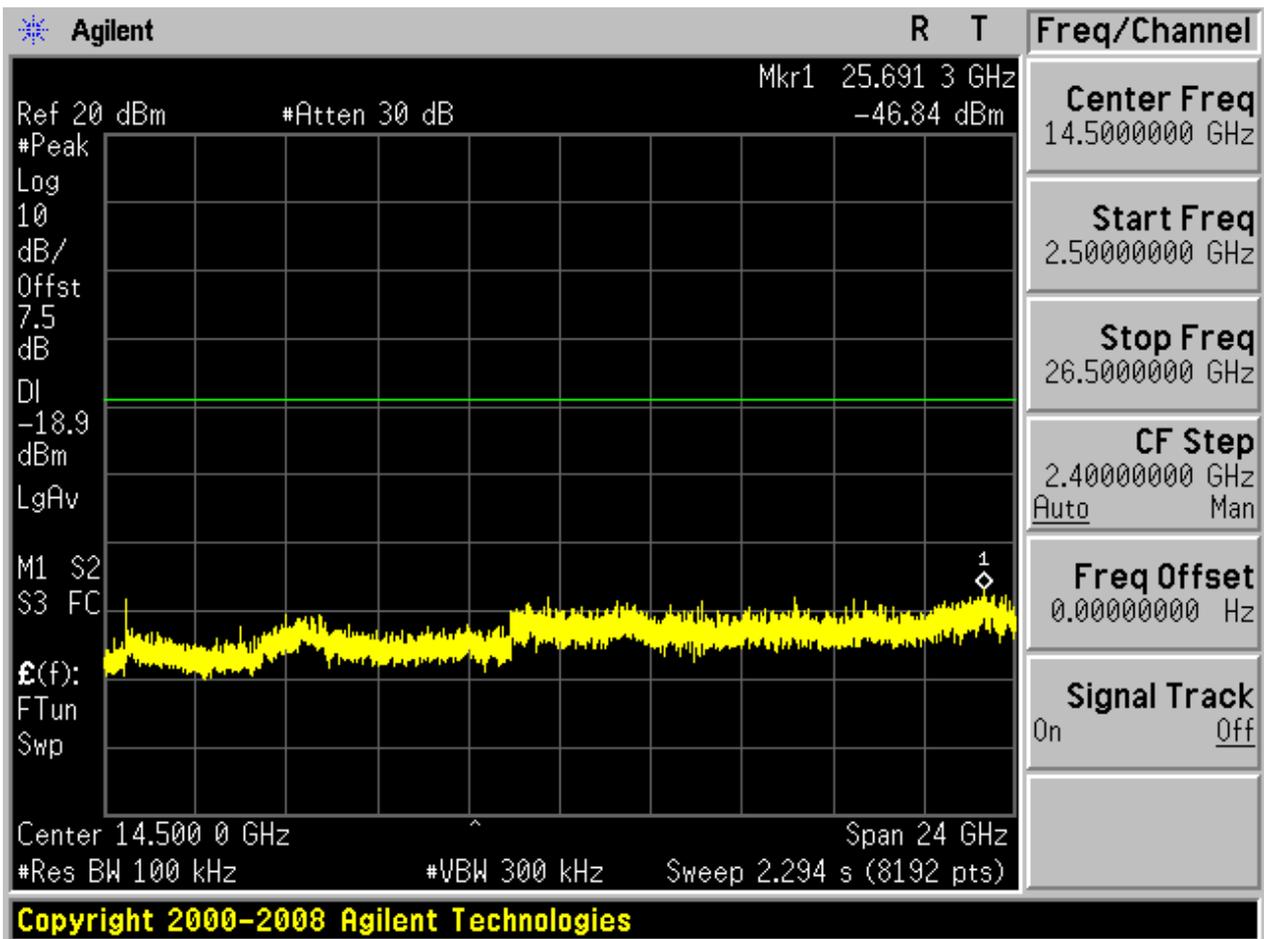








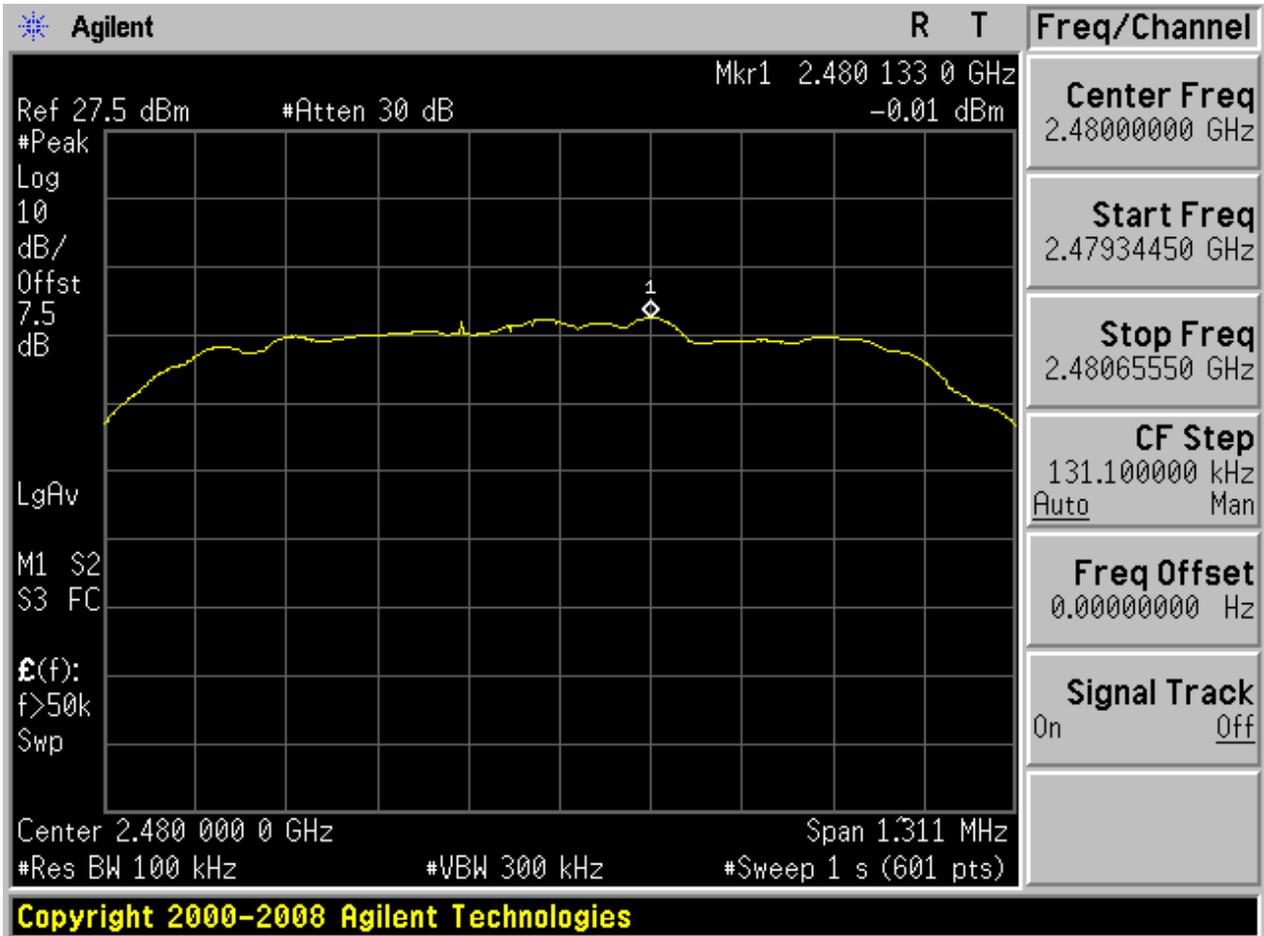






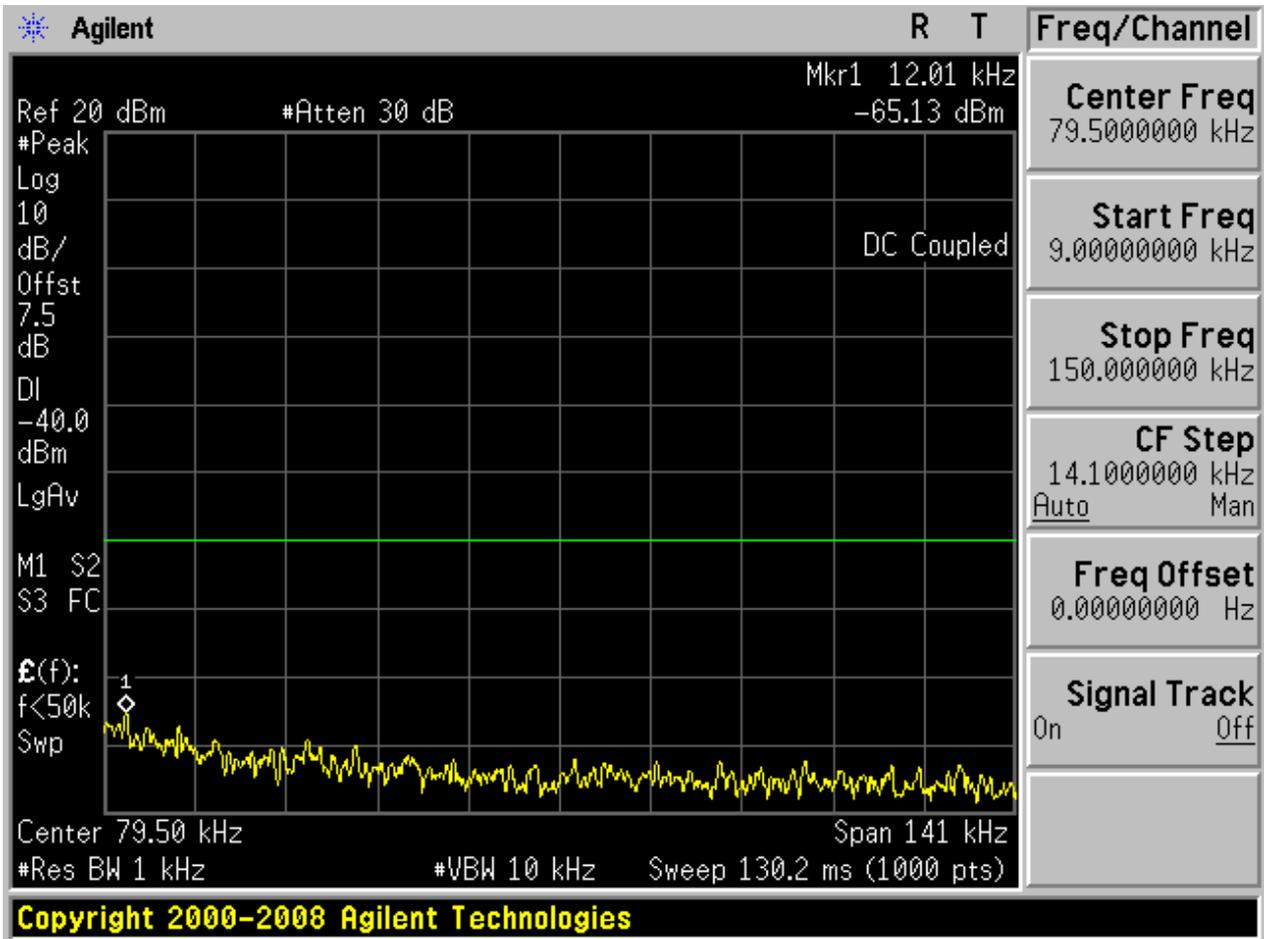
2.9 TM3_3DH5_Ch78

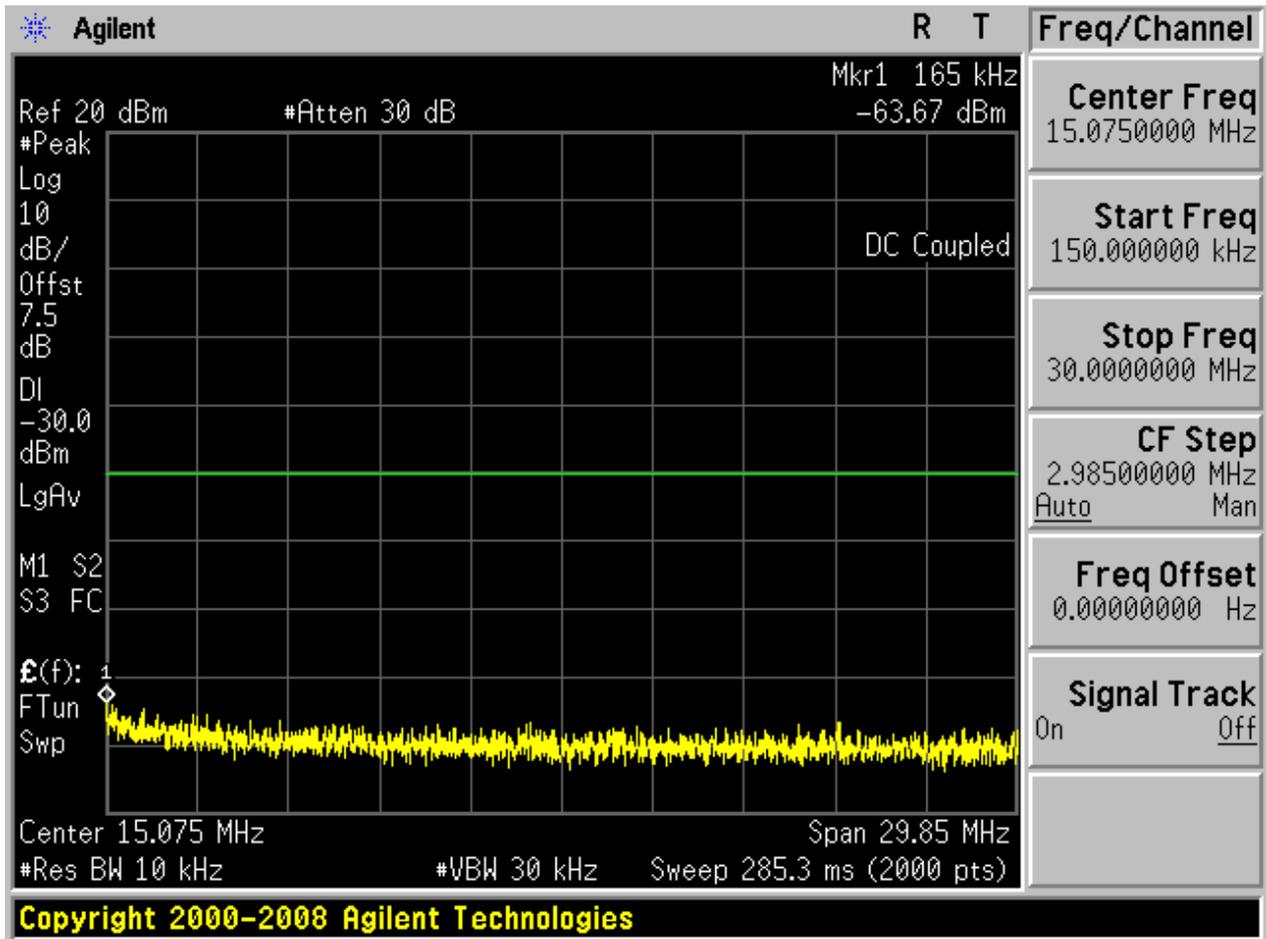
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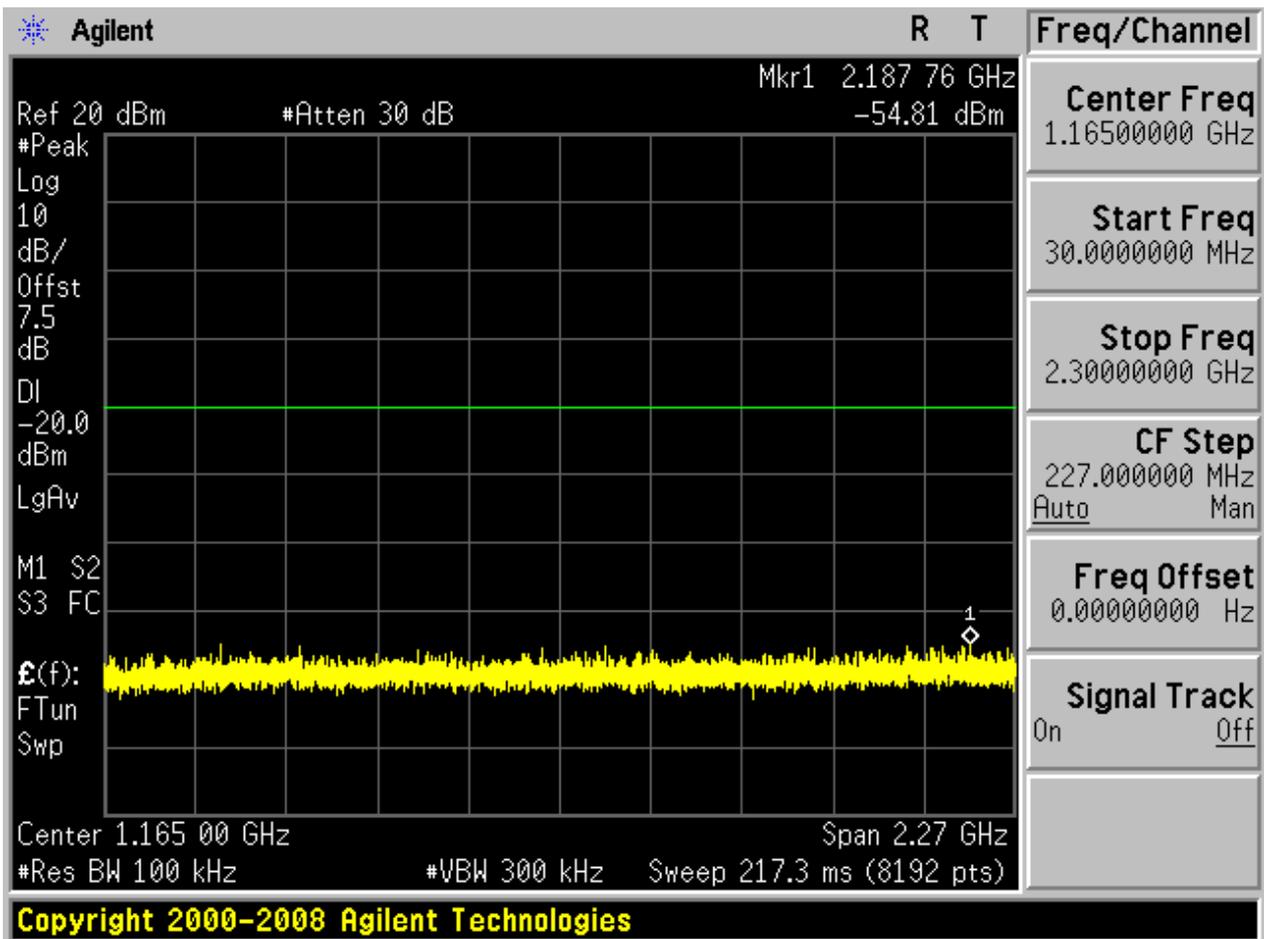


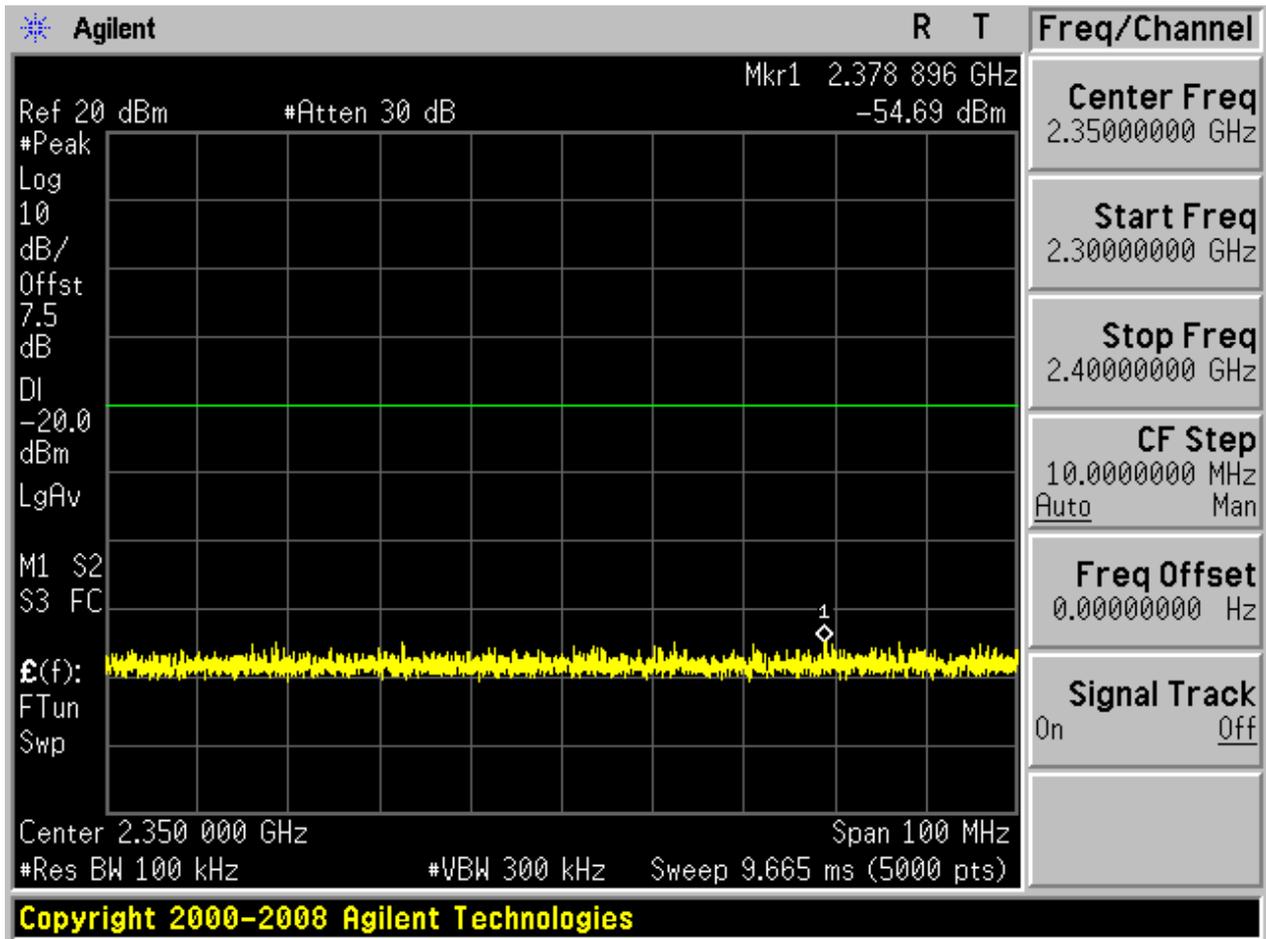


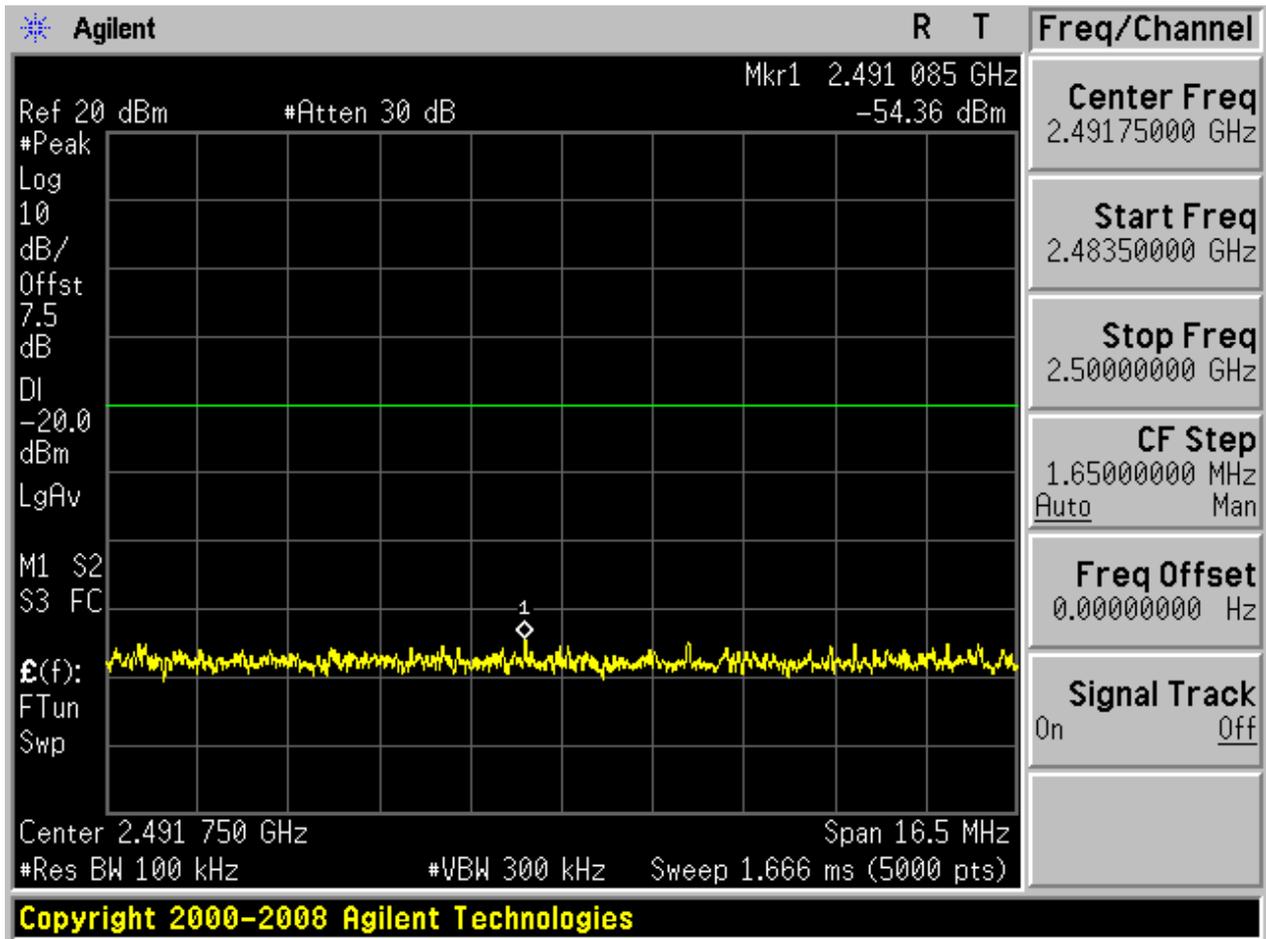
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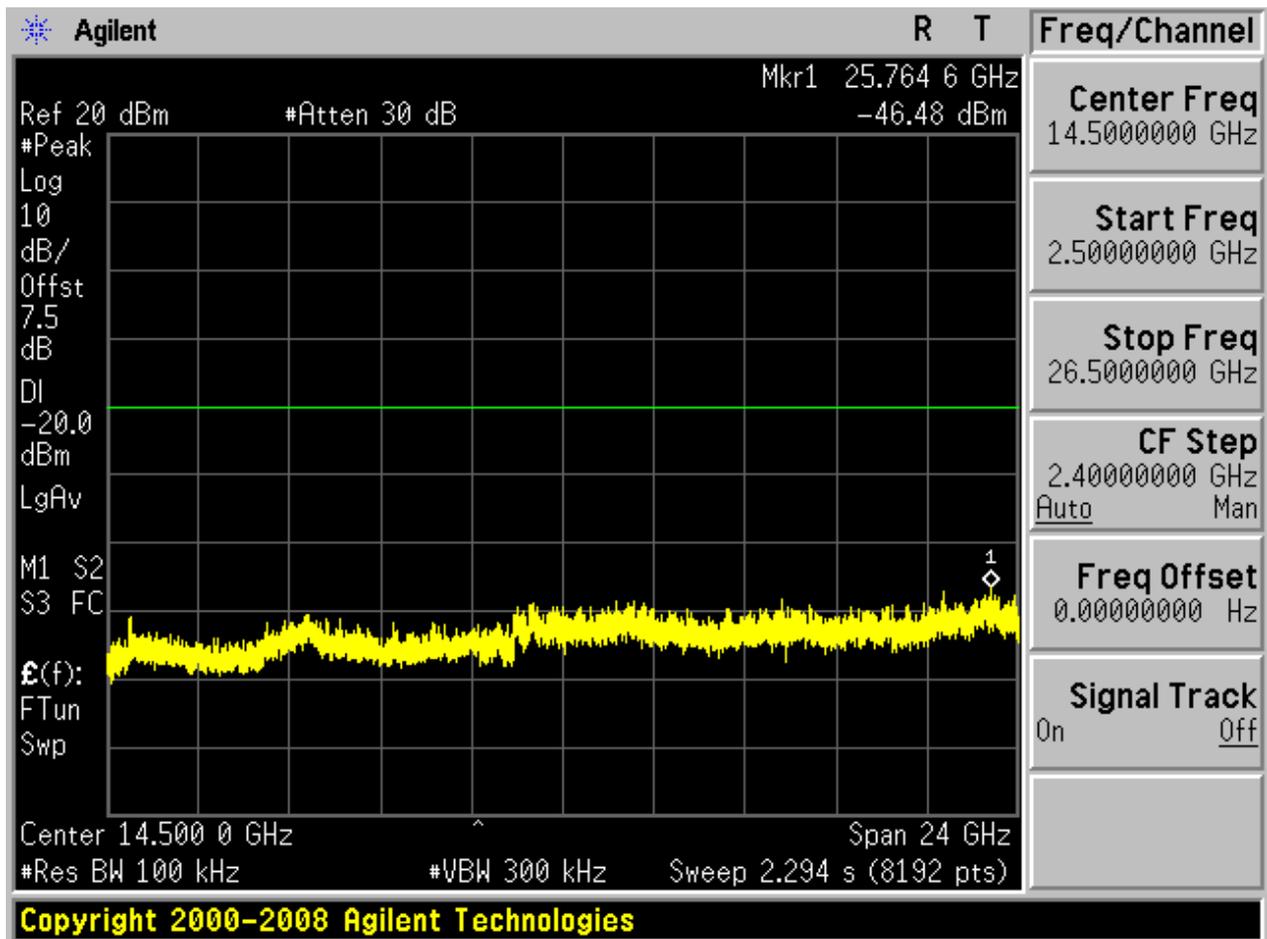














Appendix H: Radiated Emissions in the Restricted Bands

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).

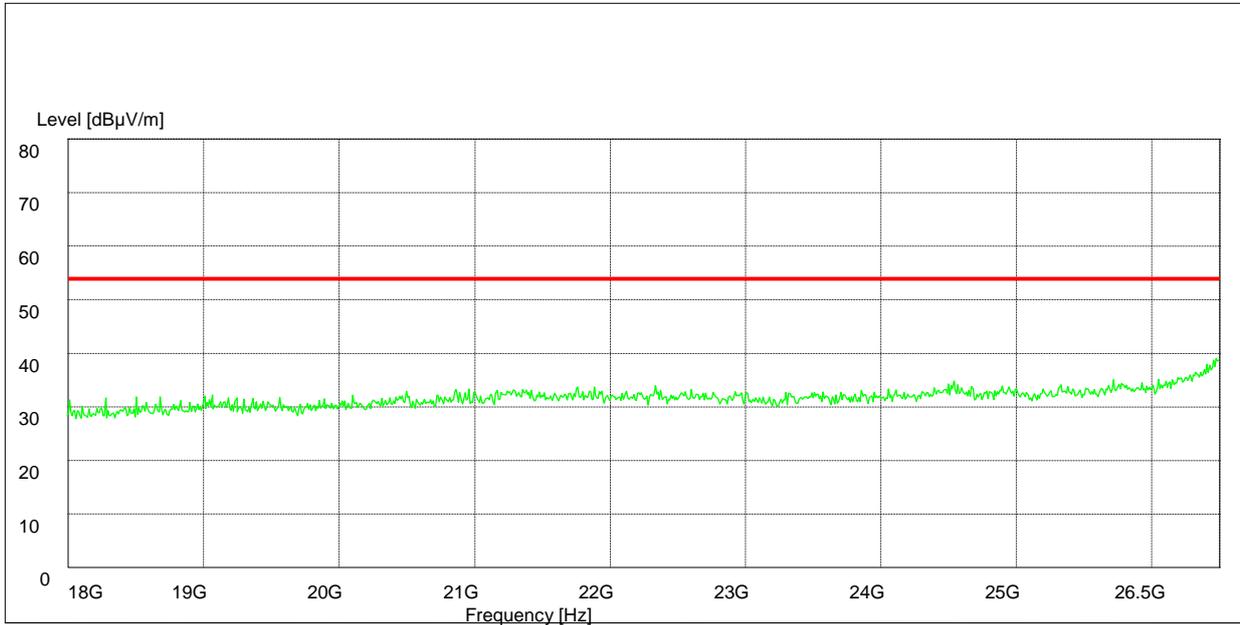


Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Plarization
34.632640	31.0	13.0	40.0	9.0	100.0	275.0	VERTICAL
37.425600	30.4	13.6	40.0	9.6	100.0	282.0	VERTICAL
74.464320	23.8	9.7	43.5	16.2	150.0	297.0	HORIZONTAL
106.620160	23.8	13.5	46.0	16.2	100.0	260.0	VERTICAL
135.341760	22.0	10.4	46.0	18.0	114.0	218.0	VERTICAL
249.187840	30.8	14.4	46.0	16.2	114.0	236.0	HORIZONTAL



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

Note: No peak found in pre- test.

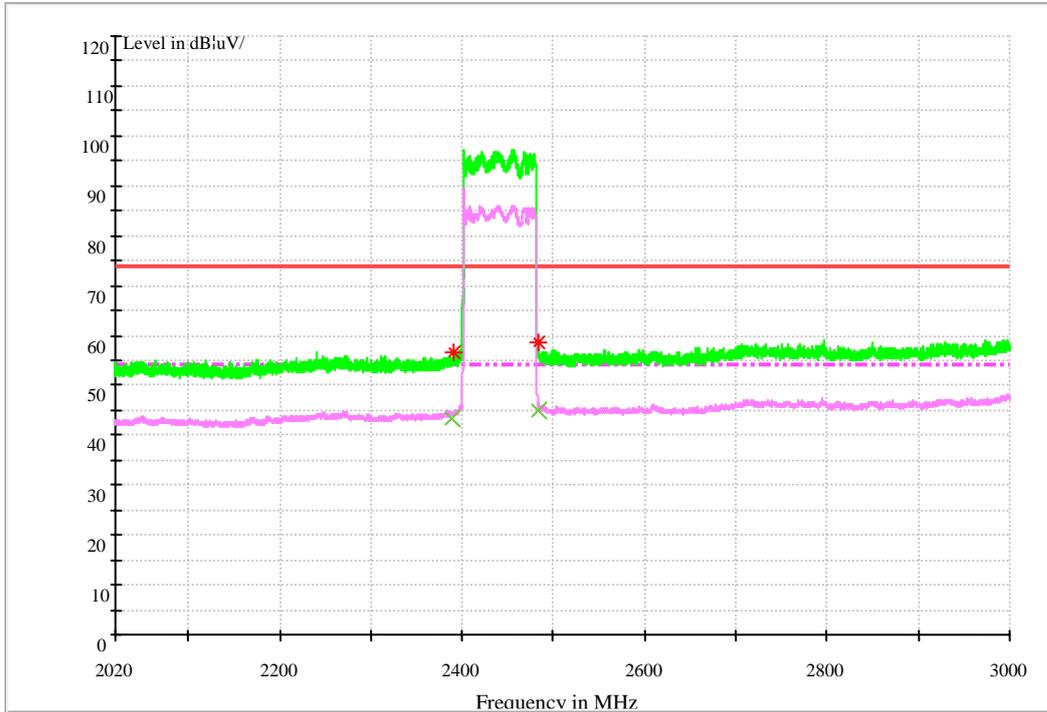


Part 3: Testing Range of “2.3GHz to 2.5GHz”

- 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.

3 Test Mode:

3.1 Channel 0



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

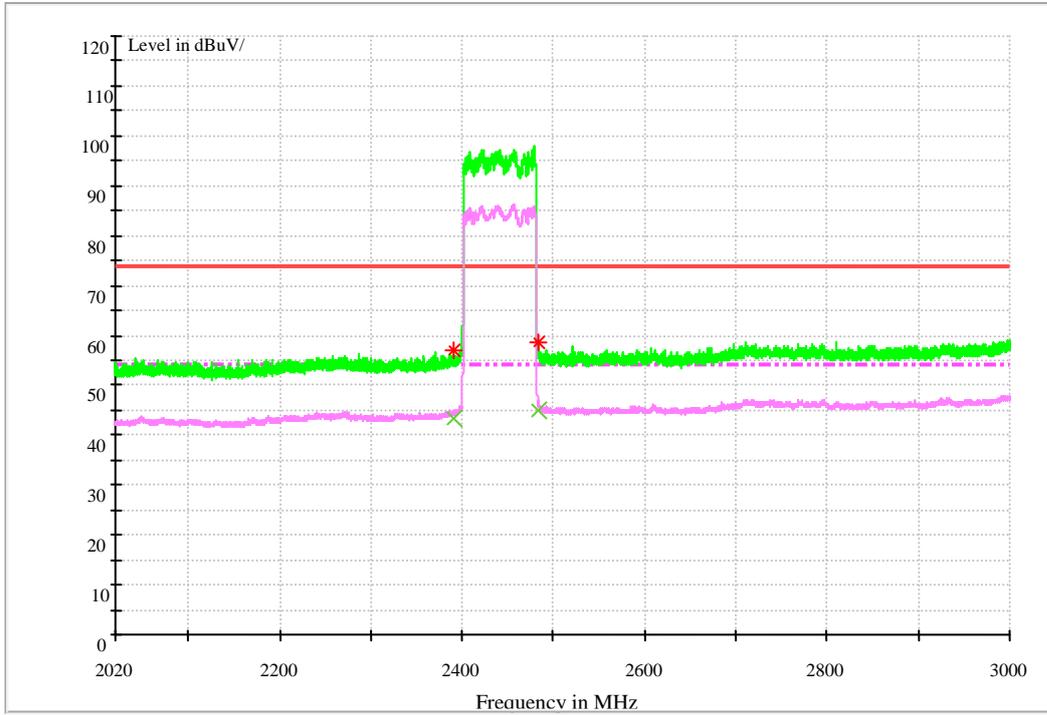
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	56.6	38.3	74.0	17.4	100.0	0.0	HORIZONTAL
2483.500000	58.6	40.4	74.0	15.4	100.0	275.0	HORIZONTAL

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	43.2	38.3	54.0	10.8	100.0	328.0	VERTICAL
2483.500000	45.1	40.7	54.0	8.9	100.0	320.0	VERTICAL

3.2 Channel 78



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

MEASUREMENT RESULT: PK Detector

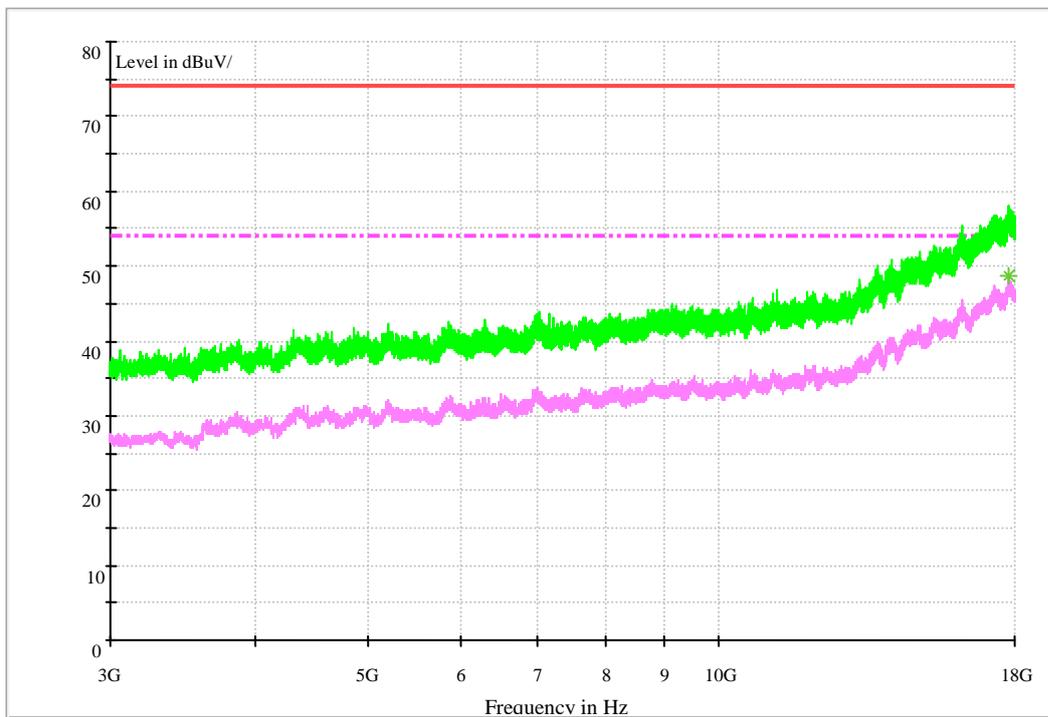
Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	57.0	57.0	74.0	17.0	100.0	-45.0	HORIZONTAL
2483.500000	58.5	58.5	74.0	15.5	100.0	86.0	HORIZONTAL

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	43.2	38.3	54.0	10.8	100.0	134.0	HORIZONTAL
2483.500000	45.0	40.6	54.0	9.0	100.0	119.0	HORIZONTAL

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

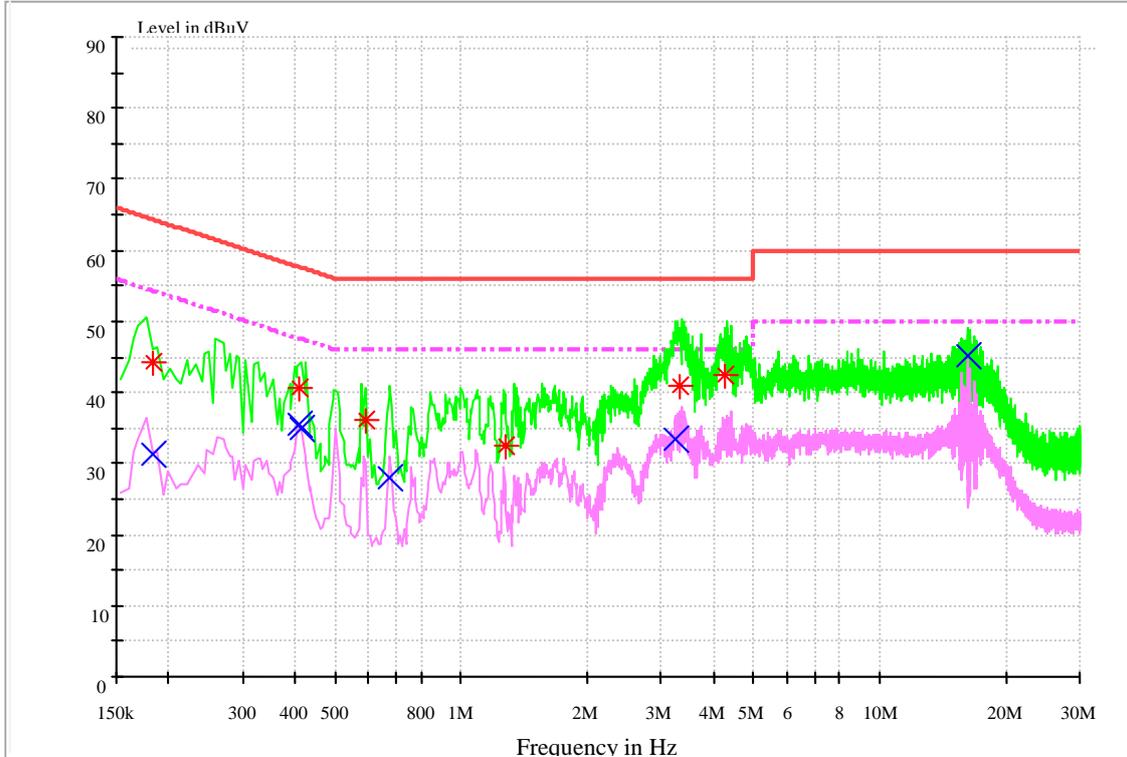
- Note 1: The test results and plot for testing range of “1 GHz to 18 GHz” showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.
- Note 2: The testing range of “1 GHz to 18 GHz” is for checking radiated emissions located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





Appendix I: AC Power Line Conducted Emissions

Channel 39



MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.183036	44.2	9.7	64.3	20.1	N	FLO
0.408214	40.8	9.7	57.7	16.9	N	FLO
0.592114	36.0	9.7	56.0	20.0	N	FLO
1.279268	32.5	9.7	56.0	23.5	N	FLO
3.316166	41.0	9.7	56.0	15.0	N	FLO
4.251162	42.6	9.8	56.0	13.4	L1	FLO



MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.182905	31.3	9.7	54.4	23.1	N	FLO
0.409706	35.4	9.7	47.7	12.3	L1	FLO
0.414476	35.1	9.7	47.6	12.5	L1	FLO
0.669945	28.1	9.7	46.0	17.9	L1	FLO
3.232102	33.3	9.7	46.0	12.7	N	FLO
16.279492	45.0	10.0	50.0	5.0	L1	FLO

END