



Appendix A: 20dB Emission Bandwidth (EBW)



1 Result Table

EUT Conf.	EBW [MHz]	Verdict
TM1_DH5_Ch0	1.017	Pass
TM1_DH5_Ch39	1.018	Pass
TM1_DH5_Ch78	1.019	Pass
TM2_2DH5_Ch0	1.334	Pass
TM2_2DH5_Ch39	1.334	Pass
TM2_2DH5_Ch78	1.335	Pass
TM3_3DH5_Ch0	1.308	Pass
TM3_3DH5_Ch39	1.309	Pass
TM3_3DH5_Ch78	1.310	Pass

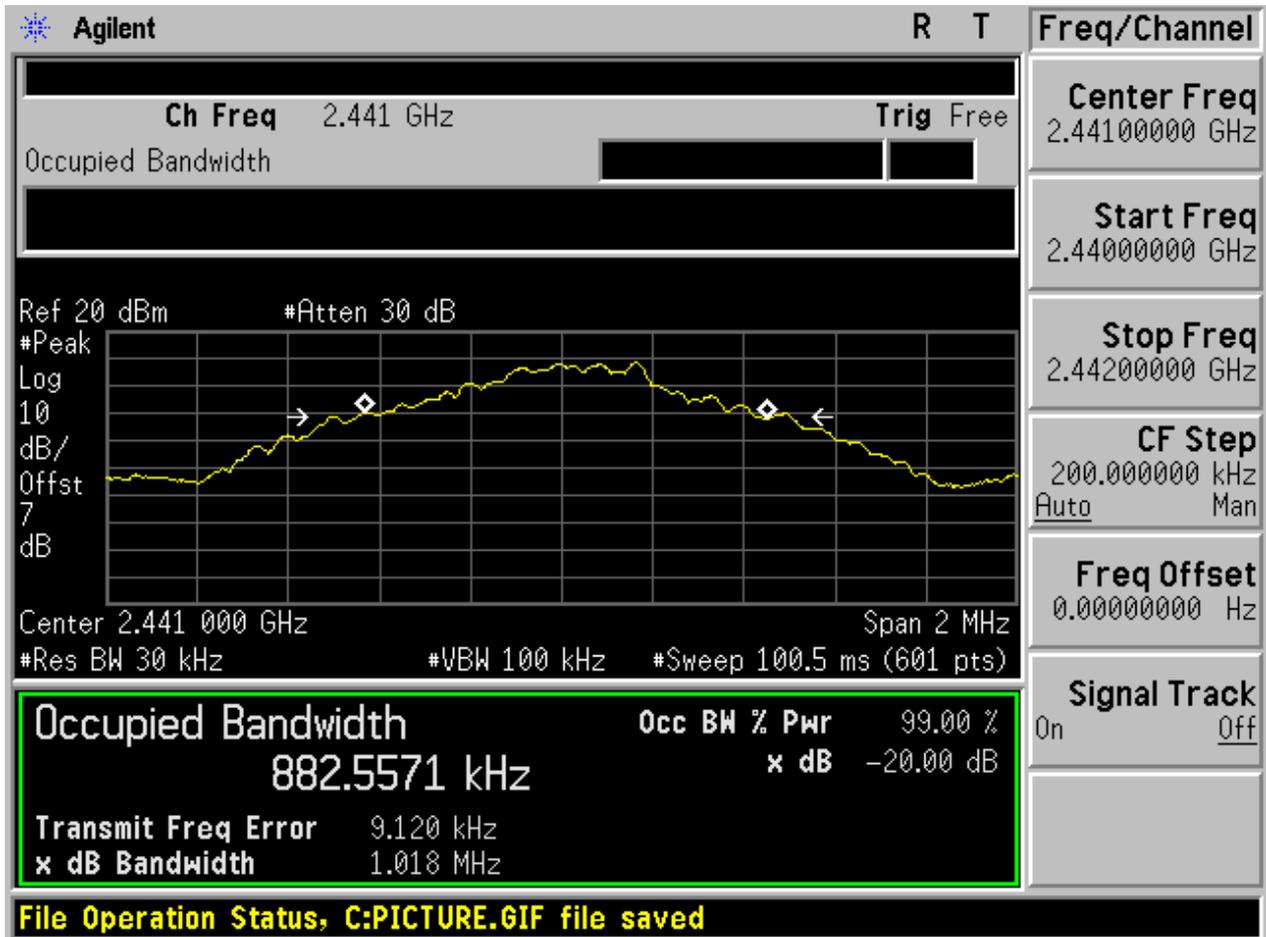
2 Test Plot

2.1 TM1_DH5_Ch0





2.2 TM1_DH5_Ch39



2.3 TM1_DH5_Ch78

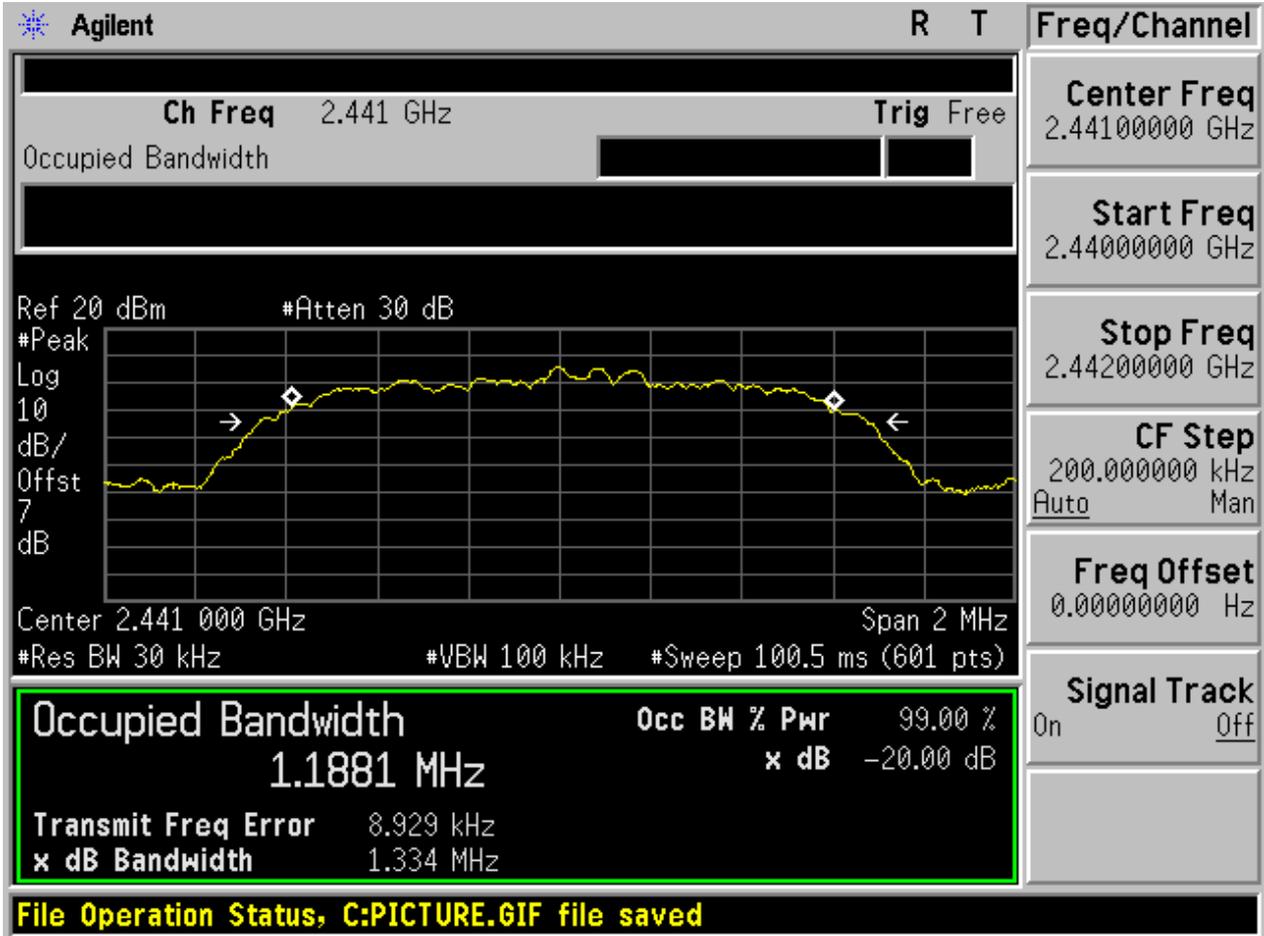


2.4 TM2_2DH5_Ch0





2.5 TM2_2DH5_Ch39





2.6 TM2_2DH5_Ch78



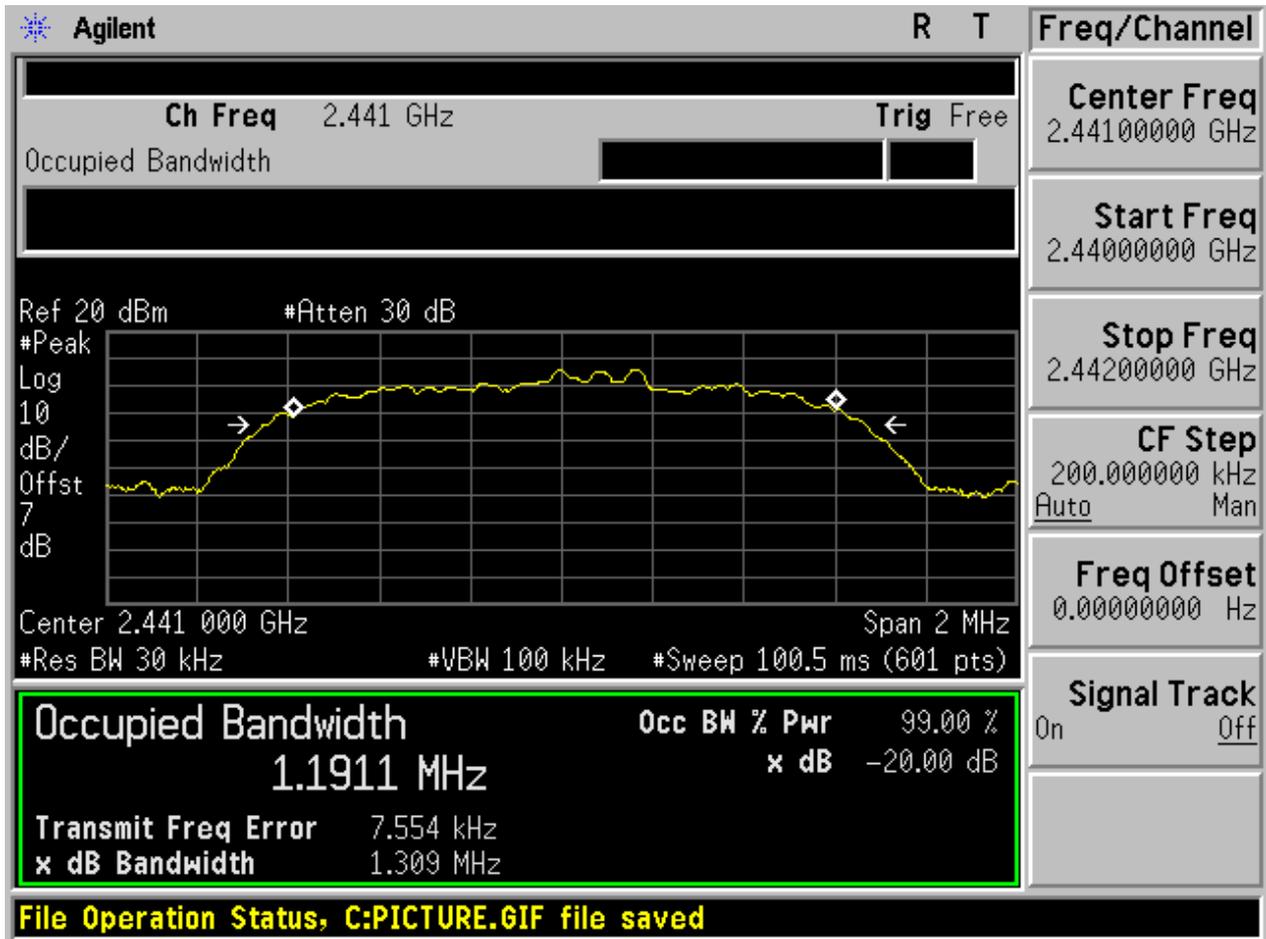


2.7 TM3_3DH5_Ch0



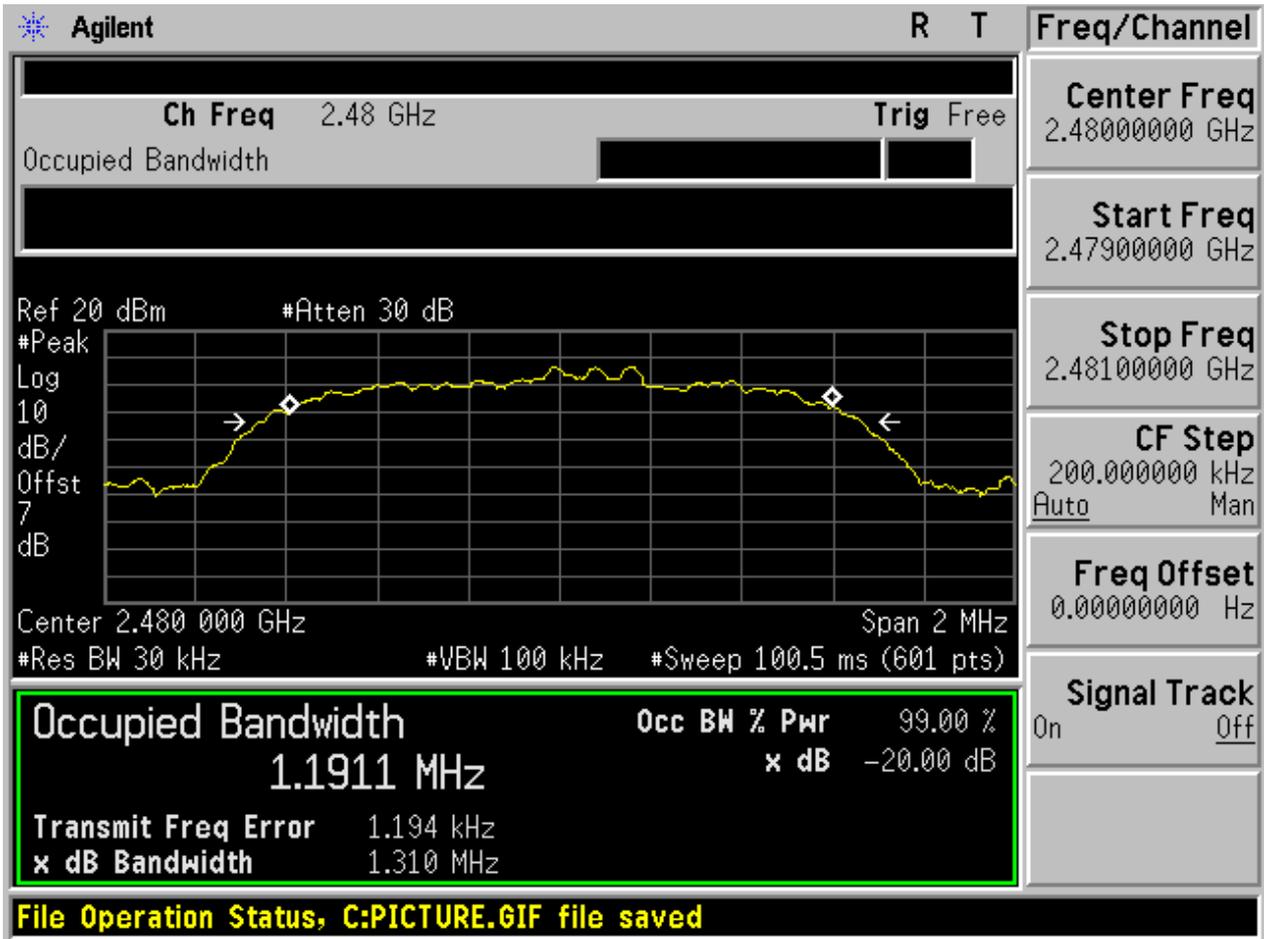


2.8 TM3_3DH5_Ch39





2.9 TM3_3DH5_Ch78





Appendix B: Carrier Frequency Separation

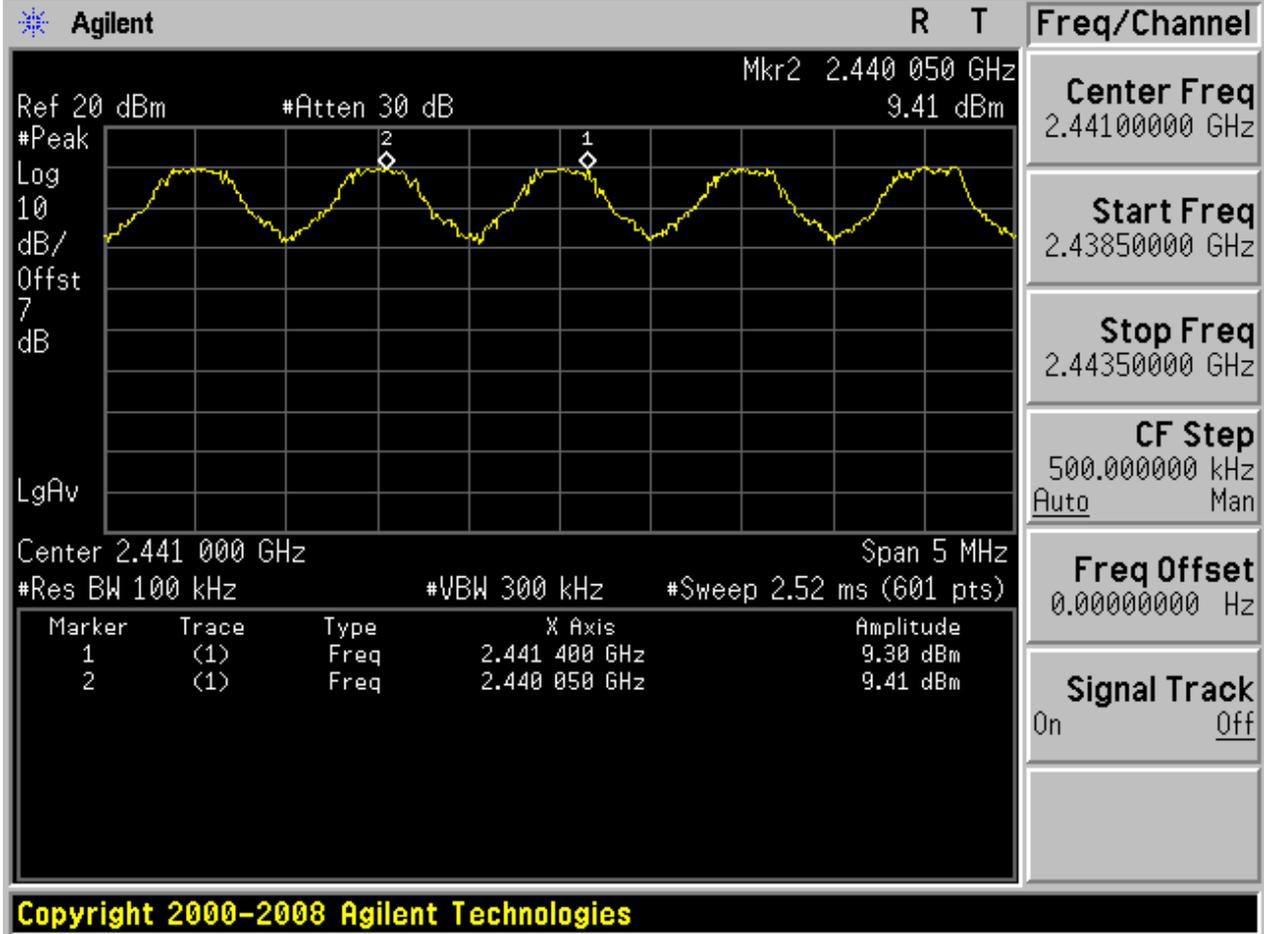


1 Result Table

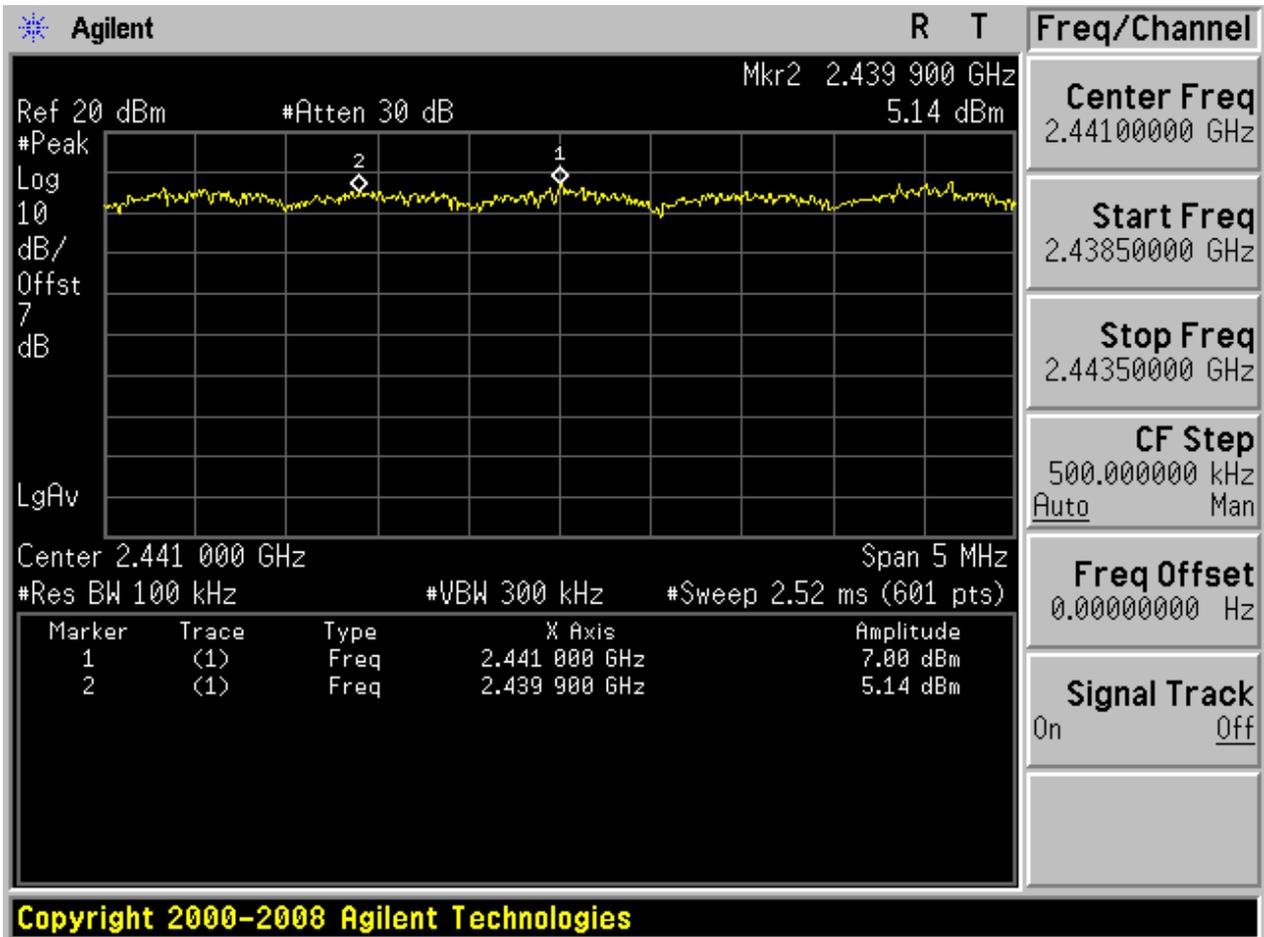
EUT Conf.	Carrier Frequency Separation [MHz]	Verdict
TM1_DH5_Hop	1.35	Pass
TM2_2DH5_Hop	1.10	Pass
TM3_3DH5_Hop	1.10	Pass

2 Test Plot

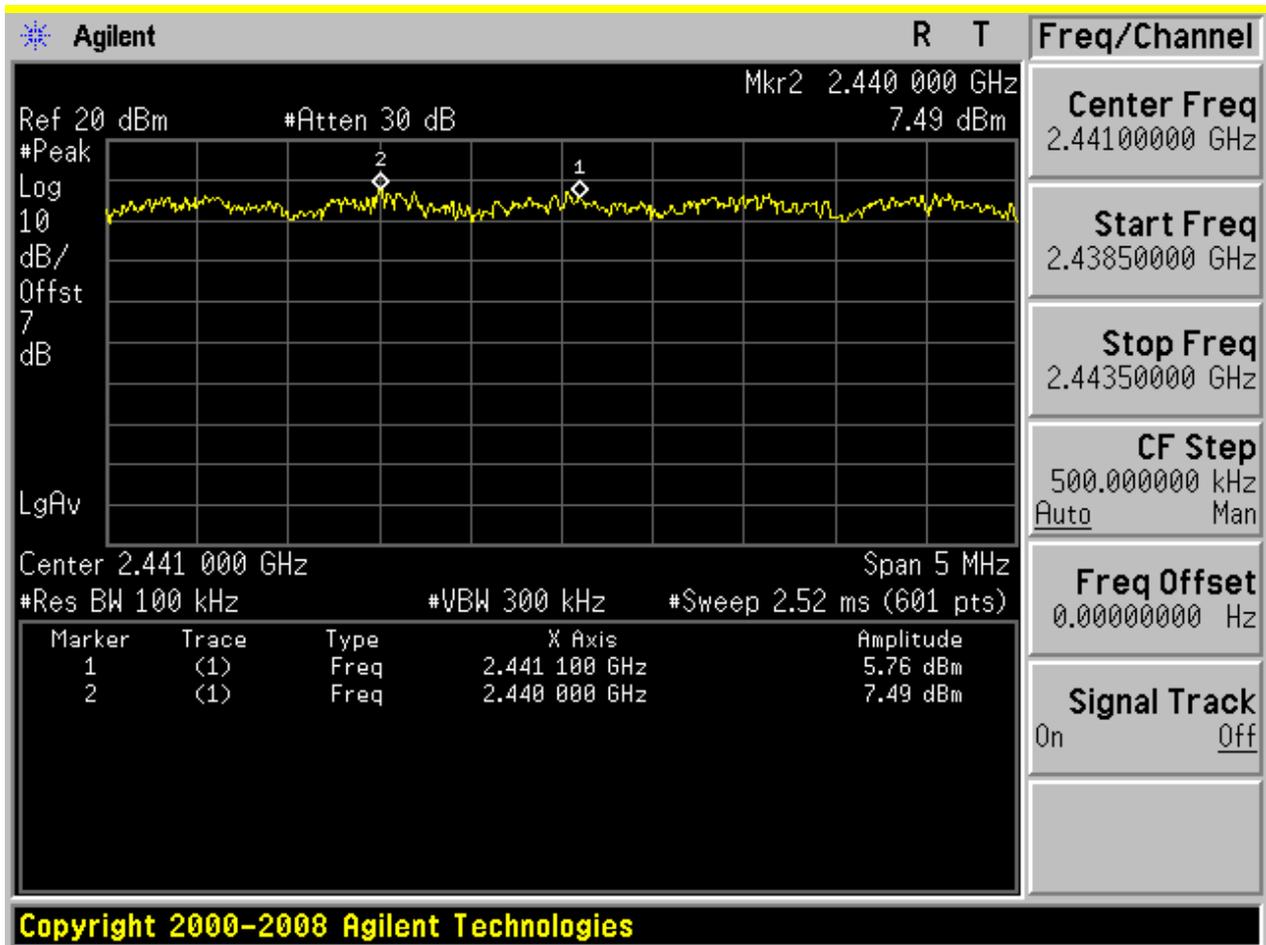
2.1 TM1_DH5_Hop



2.2 TM2_2DH5_Hop



2.3 TM3_3DH5_Hop





Appendix C: Number of Hopping Channel

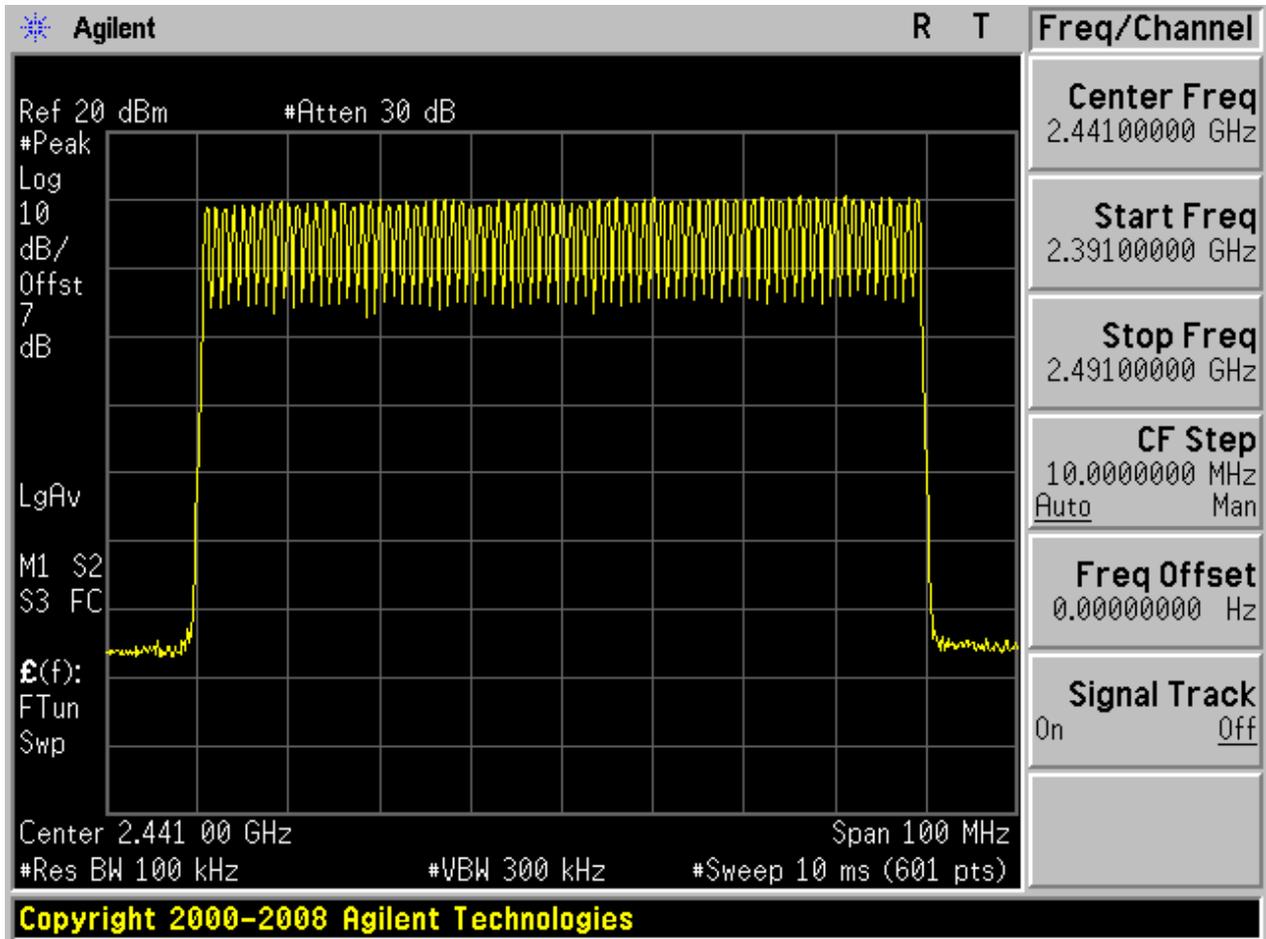


1 Result Table

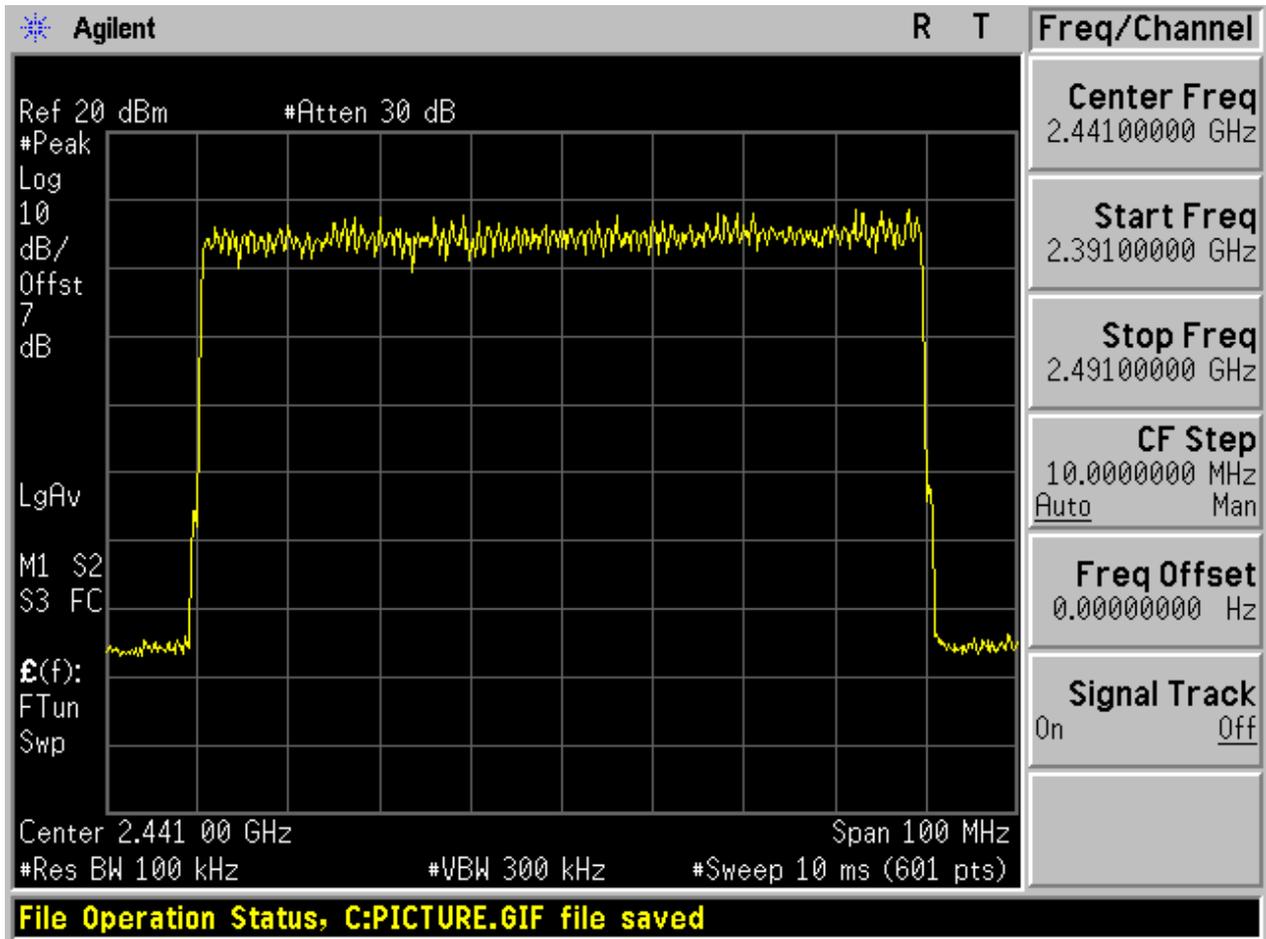
EUT Conf.	Number of Hopping Channel	Verdict
TM1_DH5_Hop	79	Pass
TM2_2DH5_Hop	79	Pass
TM3_3DH5_Hop	79	Pass

2 Test Plot

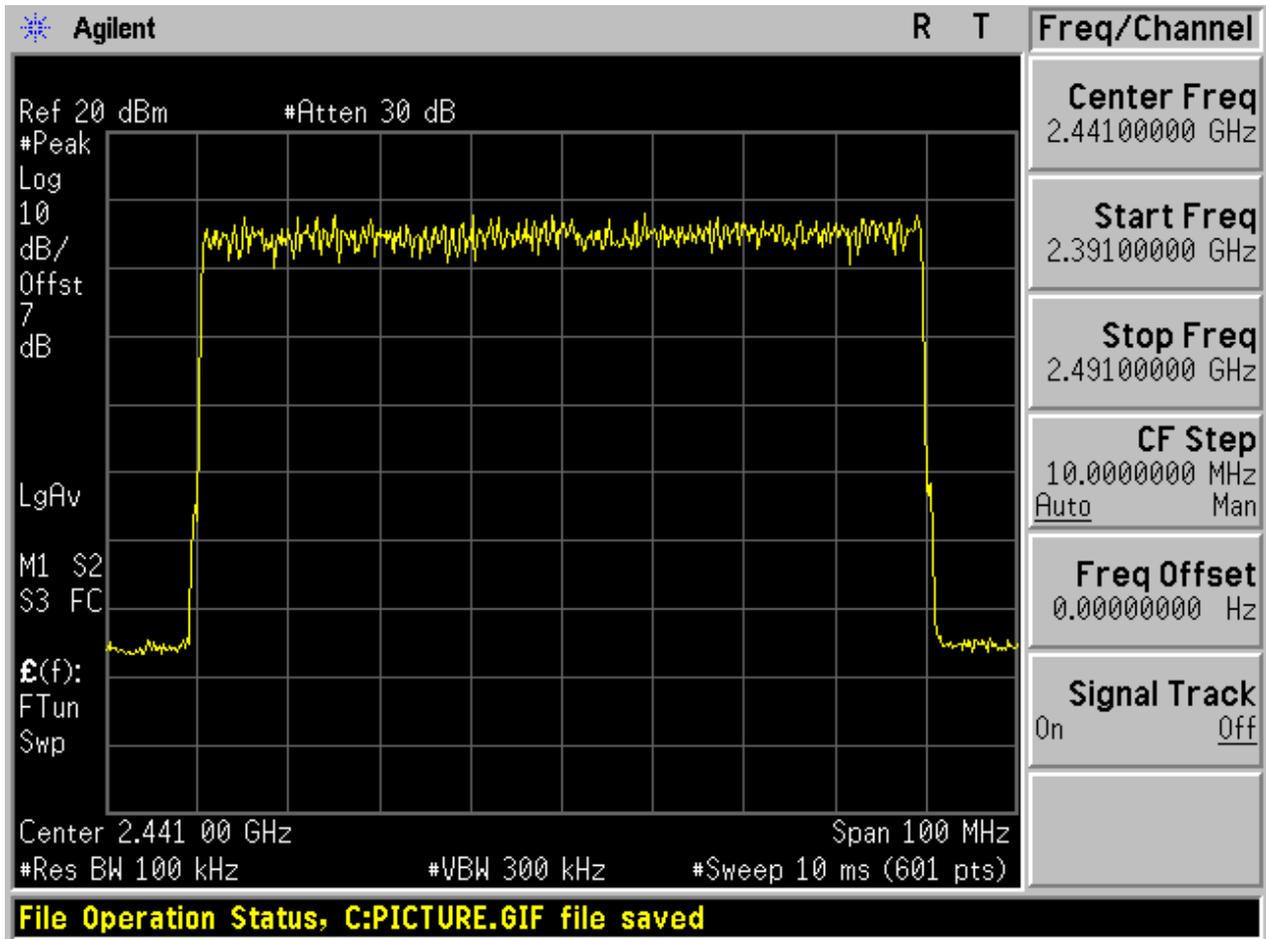
2.1 TM1_DH5_Hop



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:

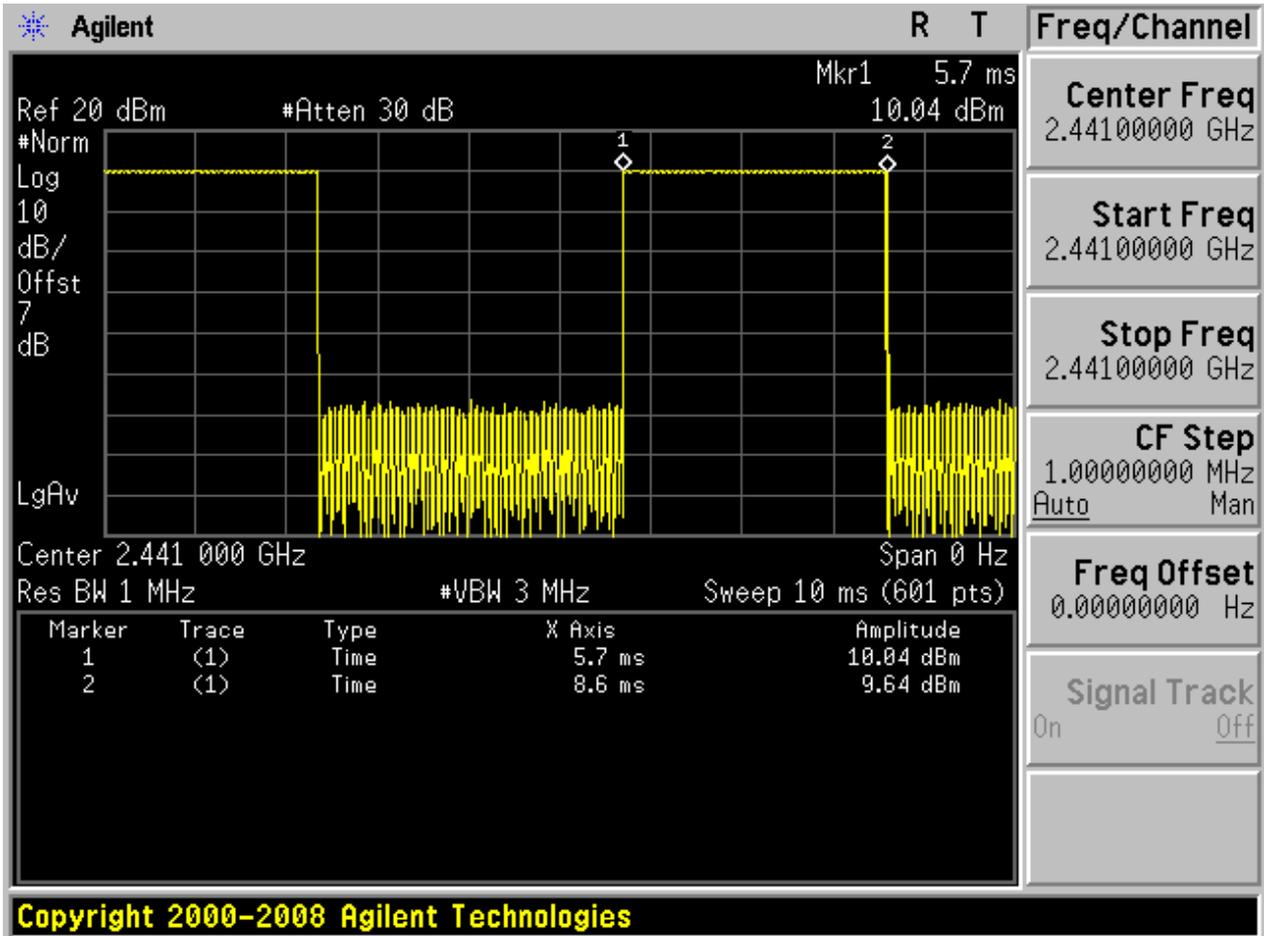
- The duration for dwell time calculation: $0.4 \text{ [s]} * \text{hopping number} = 0.4 \text{ [s]} * 79 \text{ [ch]} = 31.6 \text{ [s*ch]}$;
- The burst width [ms/hop/ch], which is directly measured, refers to the duration on one channel hop.
- The hops per second for all channels: The selected EUT 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	2.900	106.67	0.309	Pass
TM2_2DH5_Ch39	2.900	106.67	0.309	Pass
TM3_3DH5_Ch39	2.900	106.67	0.309	Pass

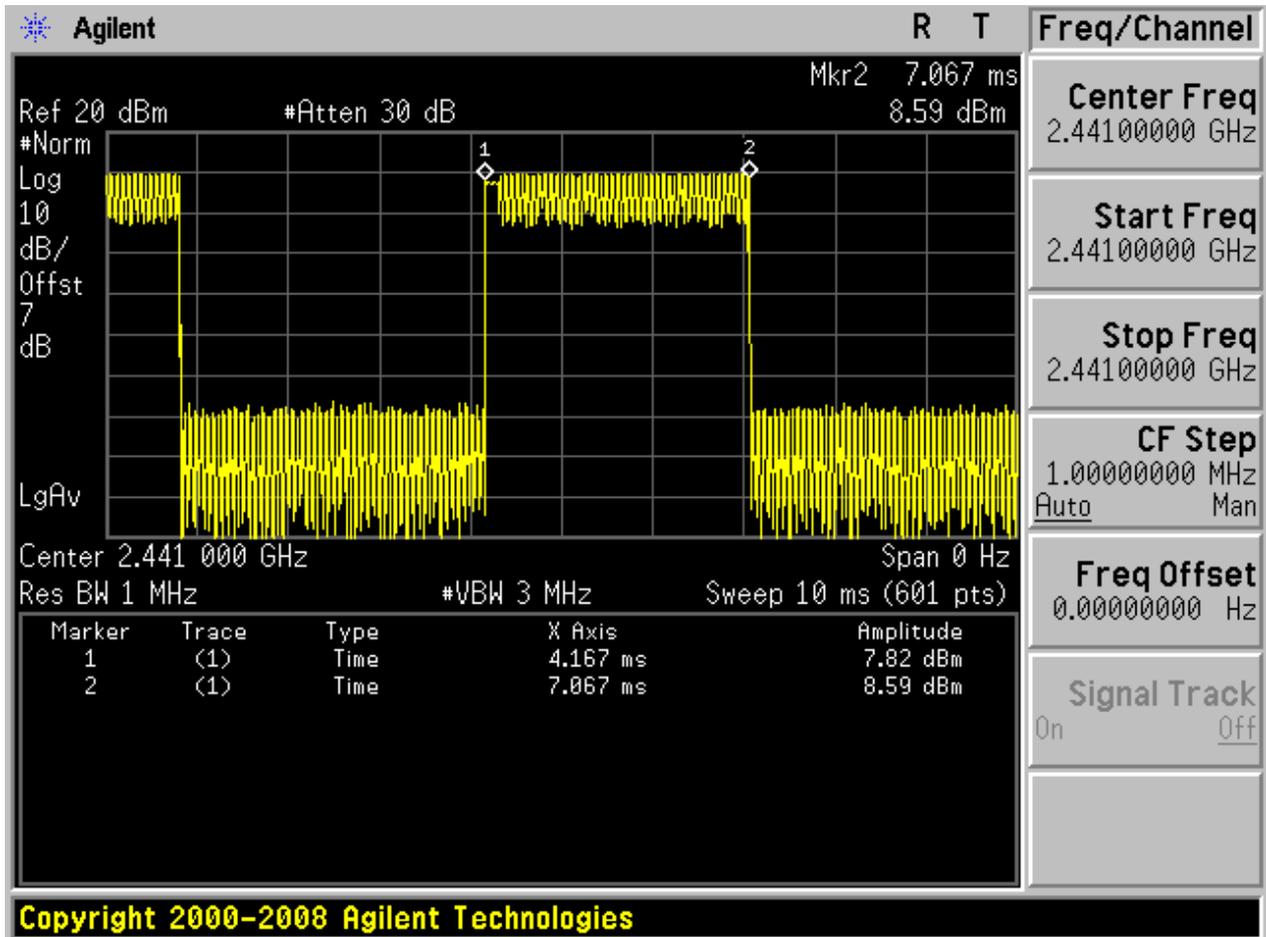
2 Test Plot

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

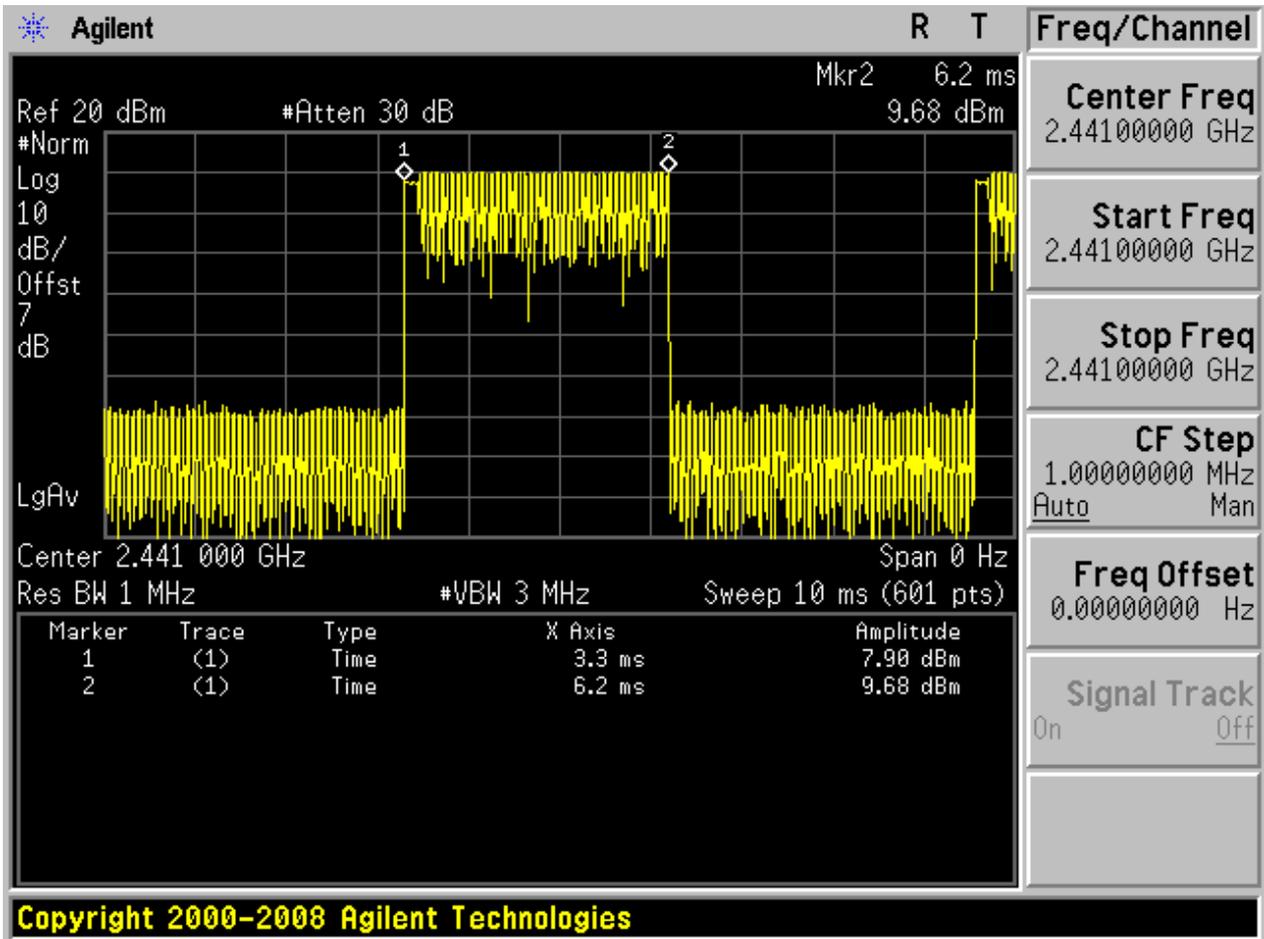
2.1 TM1_DH5_Ch39



2.2 TM2_2DH5_Ch39



2.3 TM3_3DH5_Ch39





Appendix E: Maximum Peak Conducted Output Power



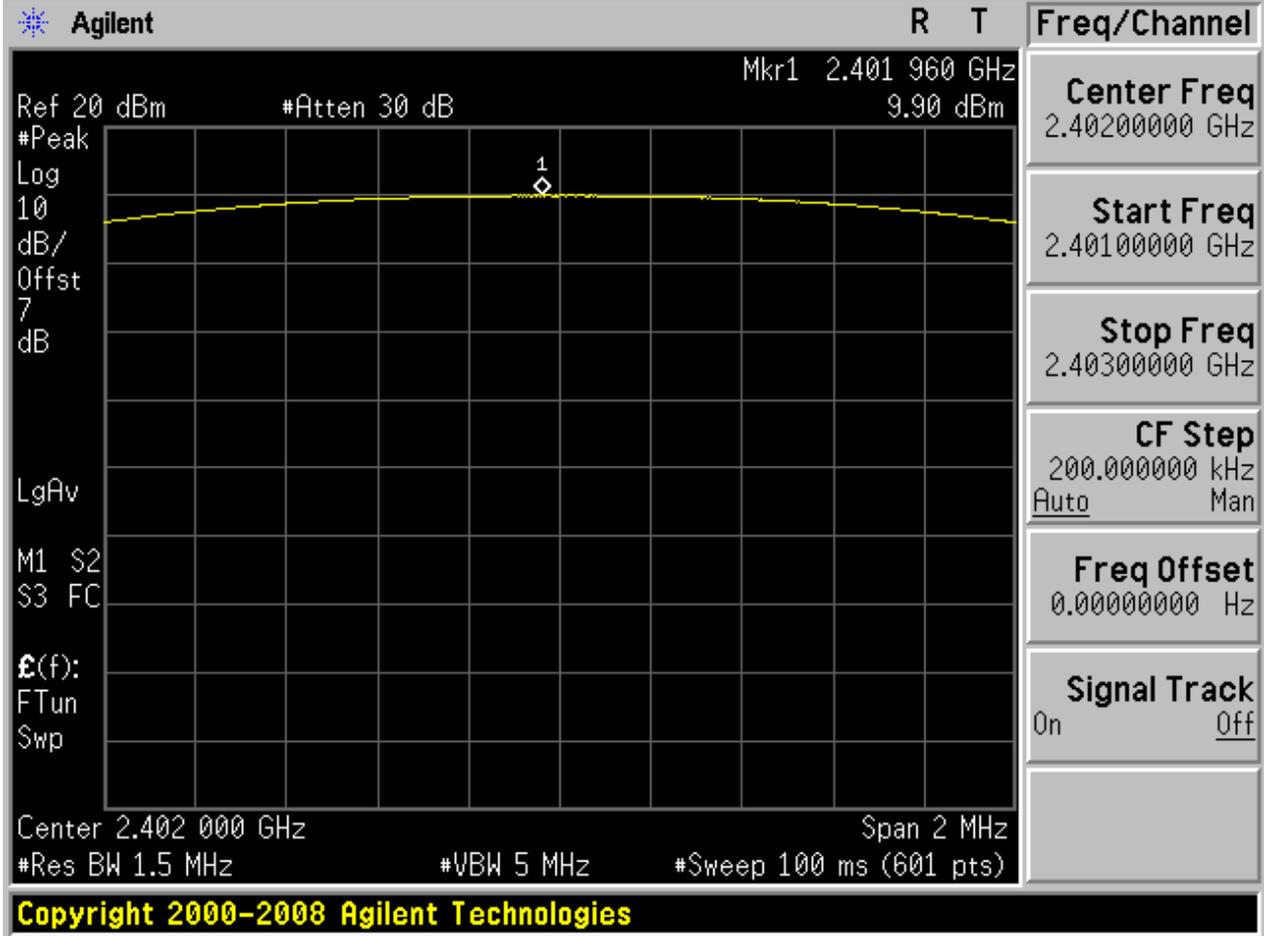
1 Result Table

EUT Conf.	Max. Peak Power [dBm]	Verdict
TM1_DH5_Ch0	9.90	Pass
TM1_DH5_Ch39	10.39	Pass
TM1_DH5_Ch78	11.07	Pass
TM2_2DH5_Ch0	9.66	Pass
TM2_2DH5_Ch39	10.14	Pass
TM2_2DH5_Ch78	10.85	Pass
TM3_3DH5_Ch0	10.13	Pass
TM3_3DH5_Ch39	10.60	Pass
TM3_3DH5_Ch78	11.29	Pass

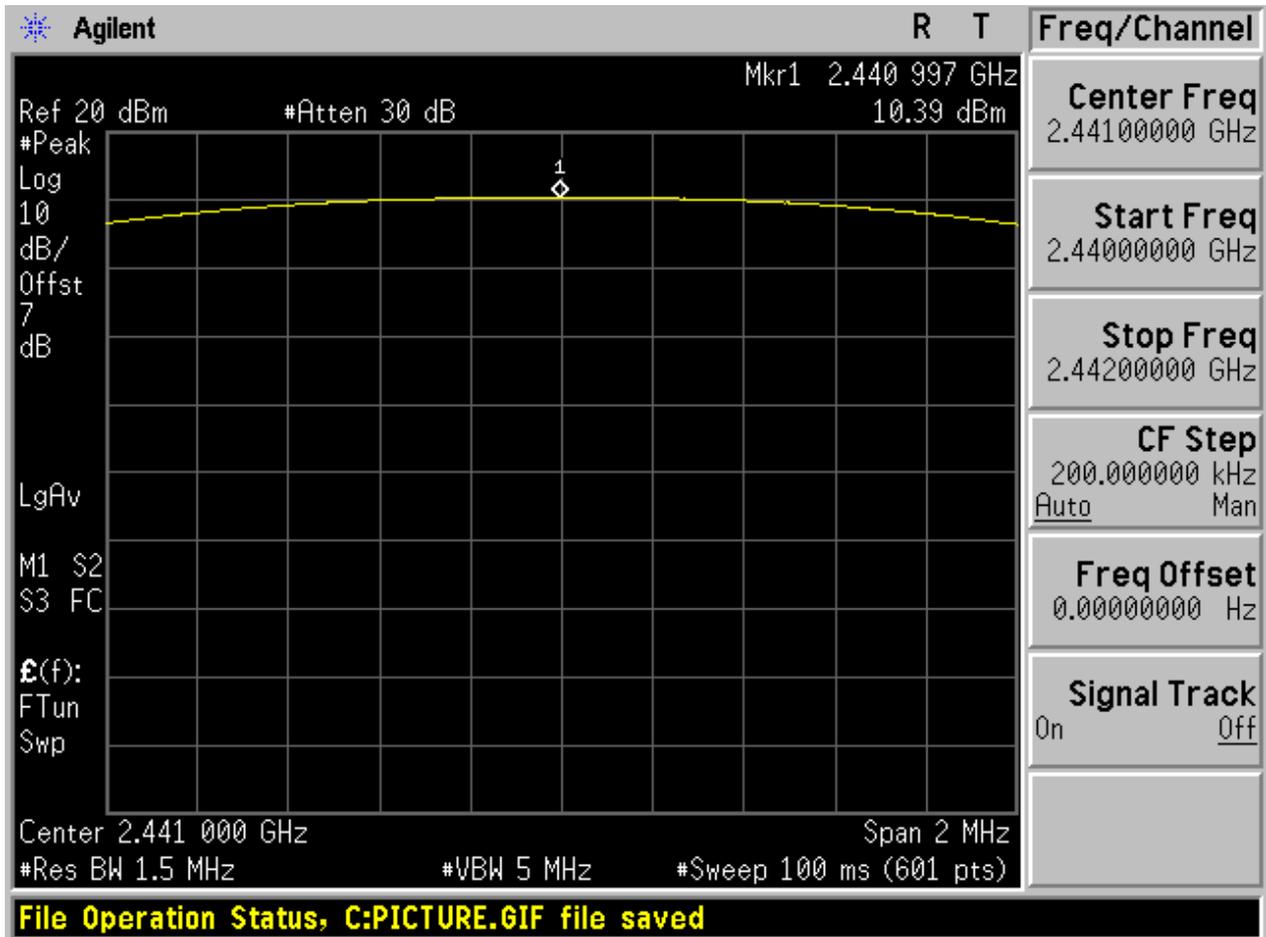


2 Test Plot

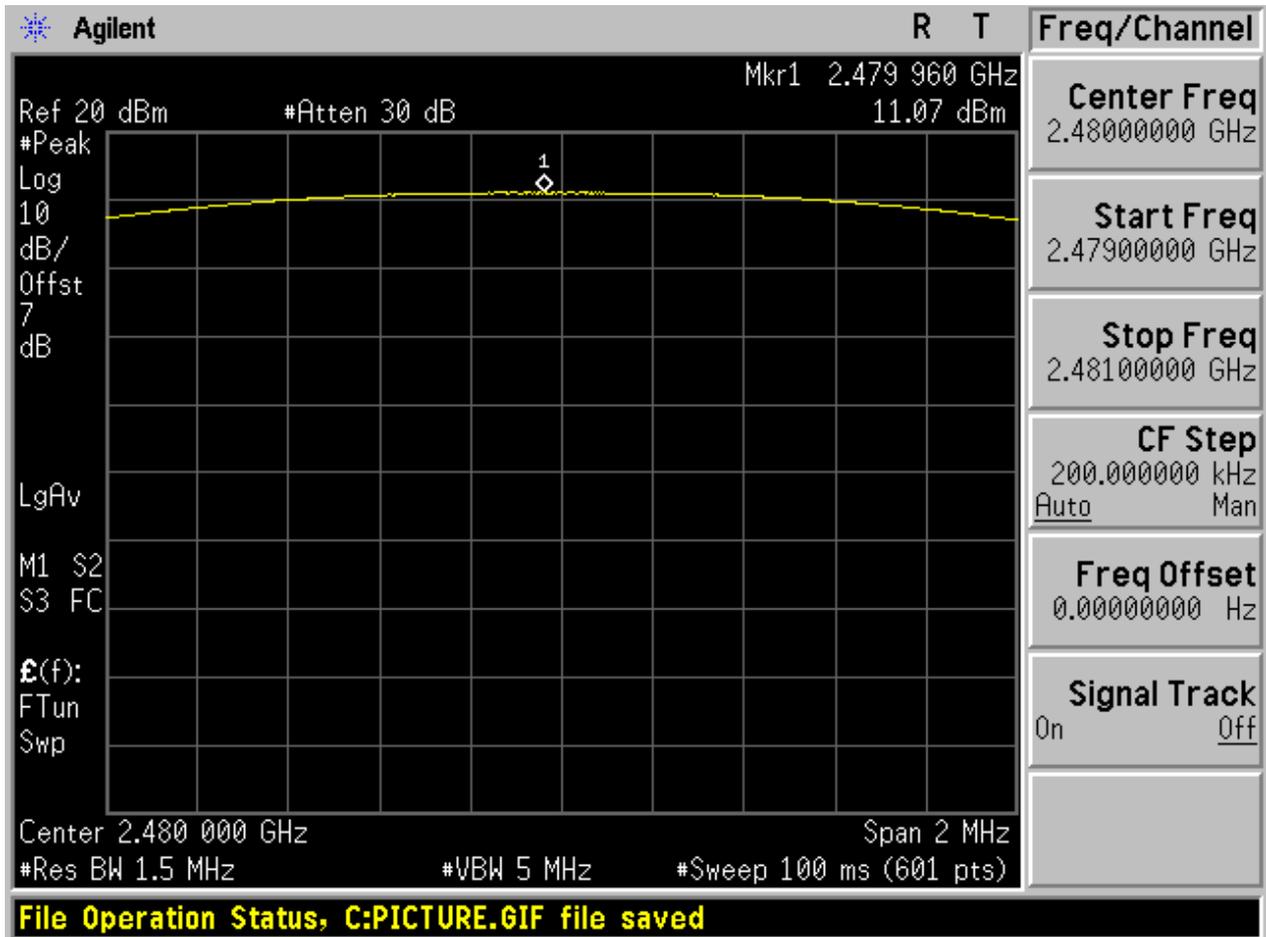
2.1 TM1_DH5_Ch0



2.2 TM1_DH5_Ch39

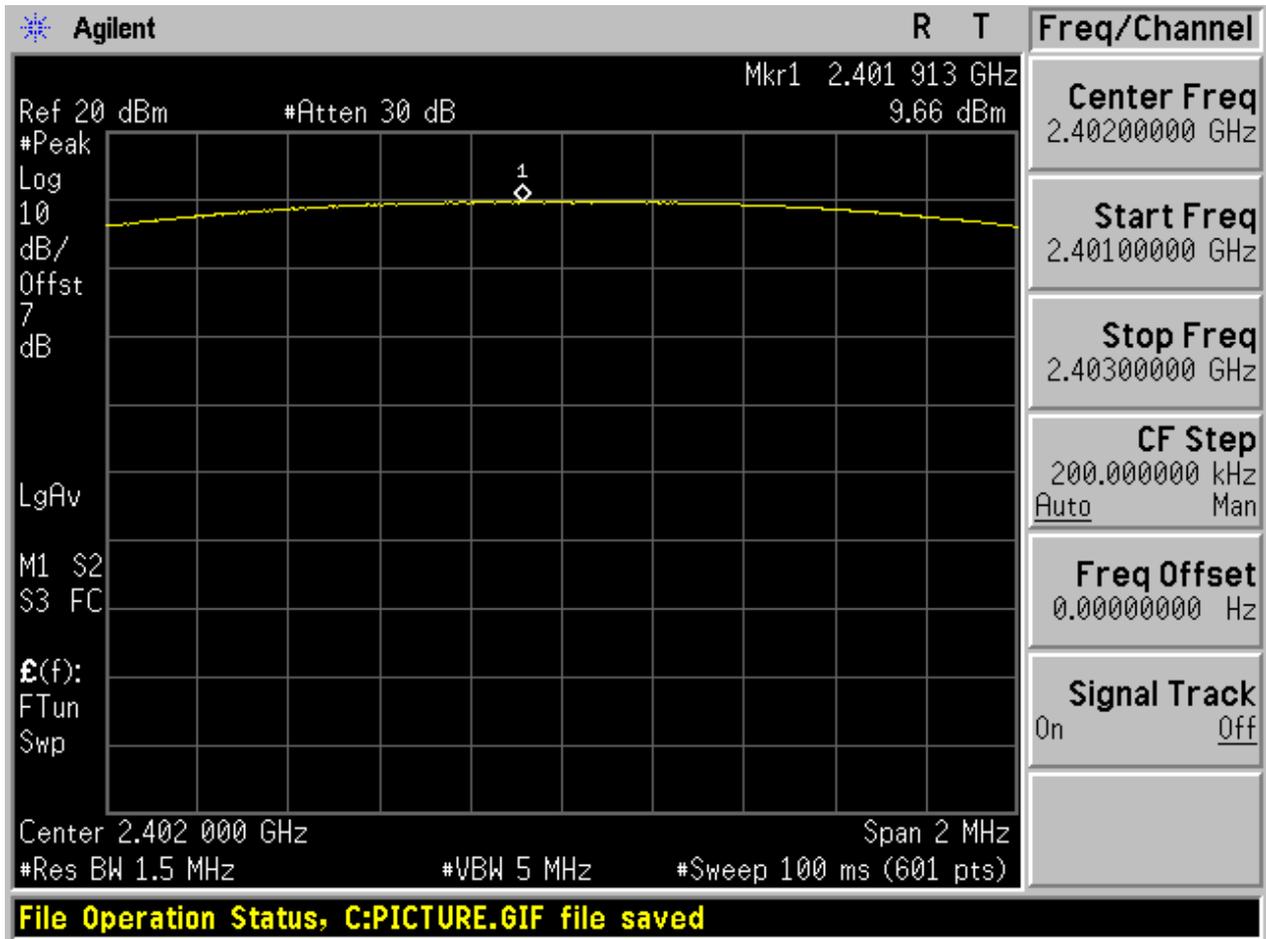


2.3 TM1_DH5_Ch78



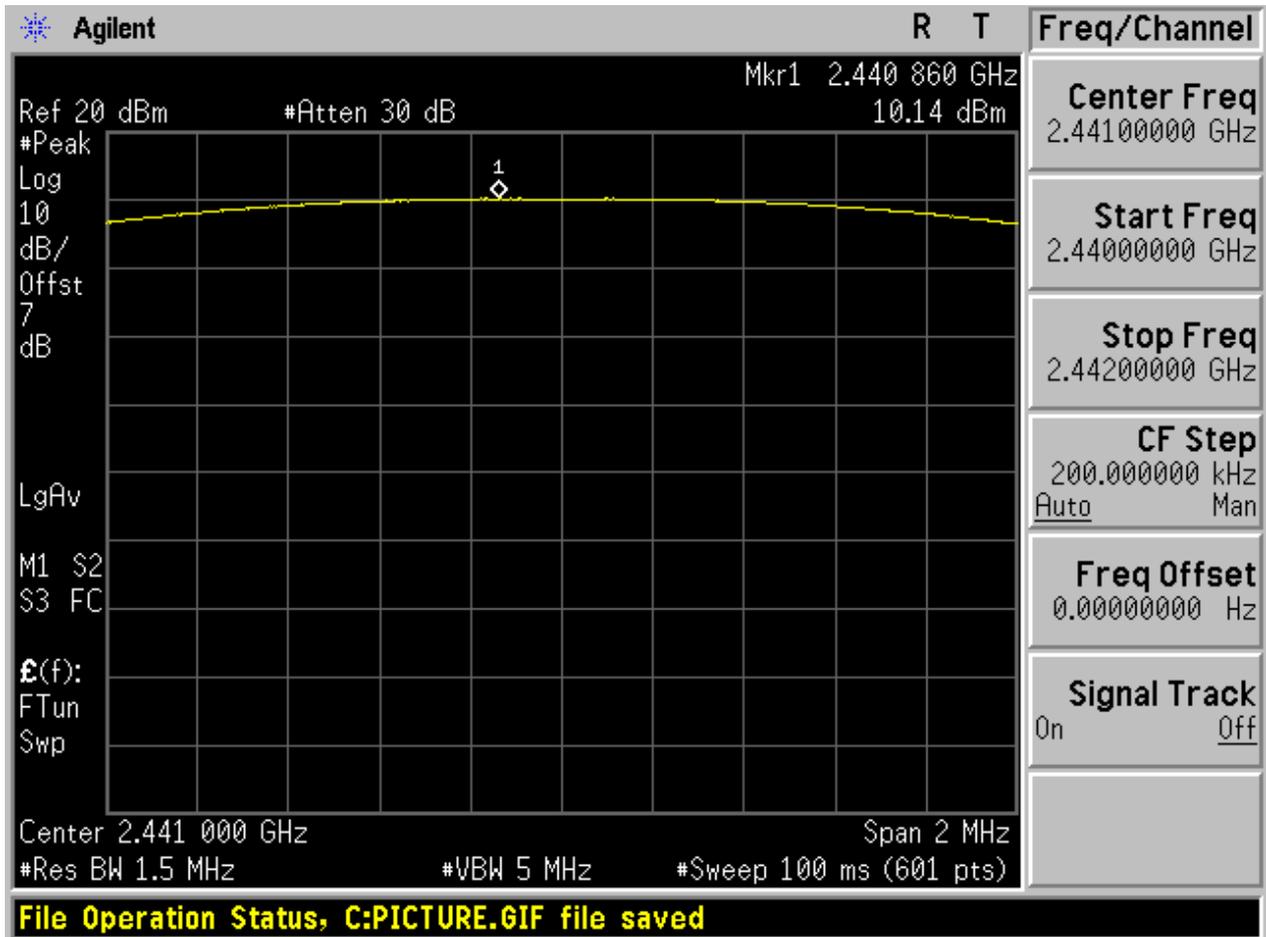


2.4 TM2_2DH5_Ch0

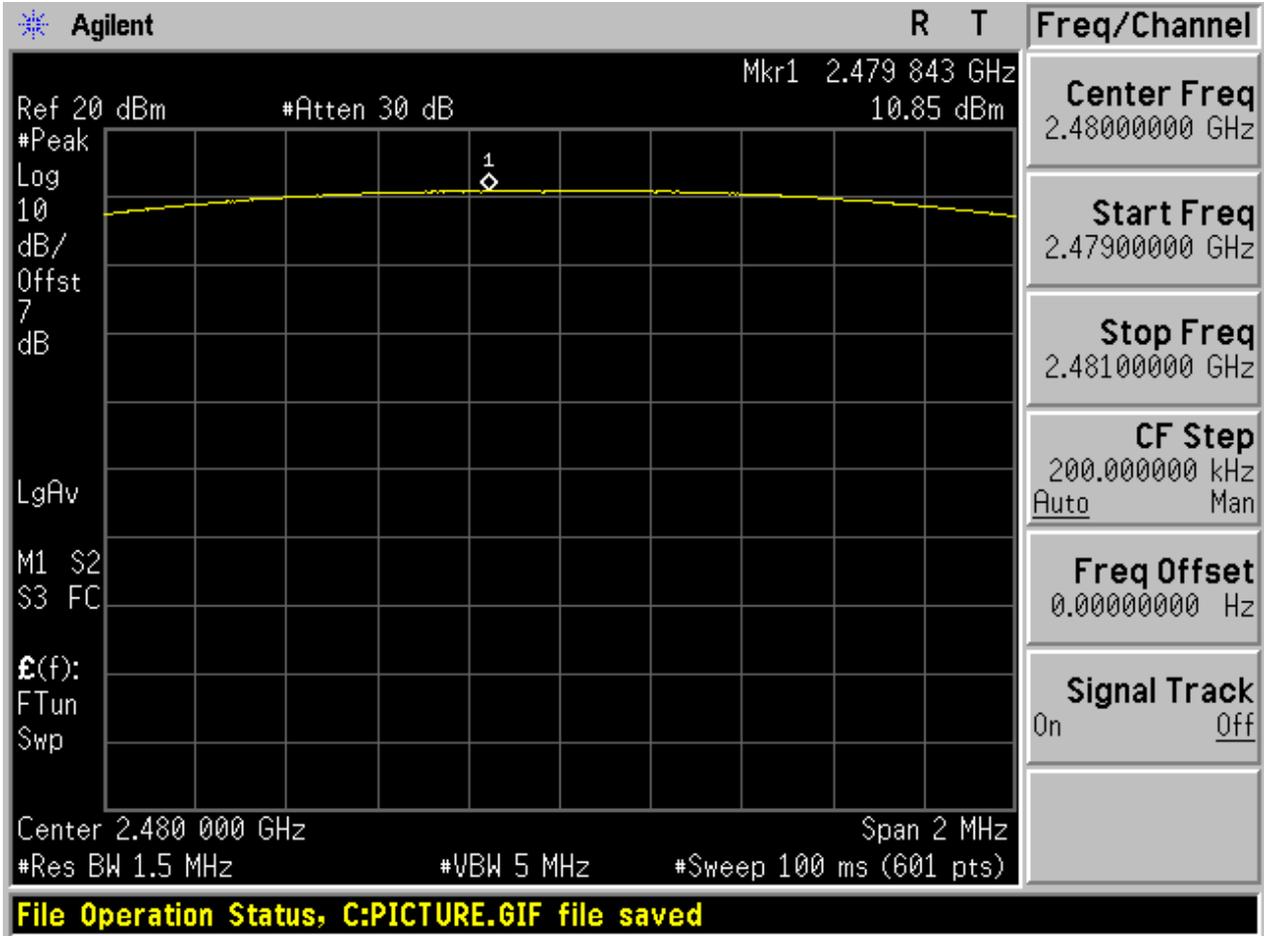




2.5 TM2_2DH5_Ch39

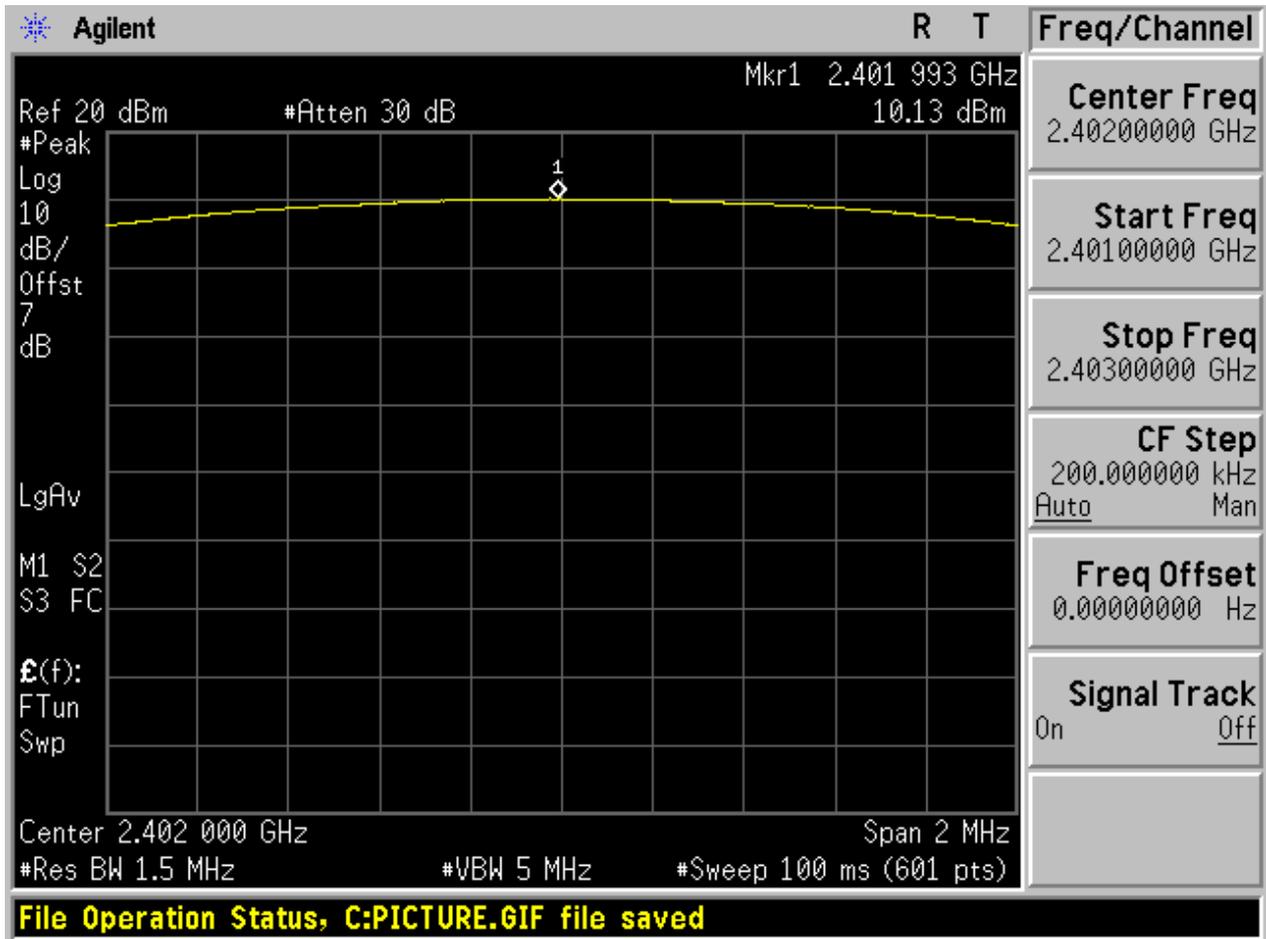


2.6 TM2_2DH5_Ch78



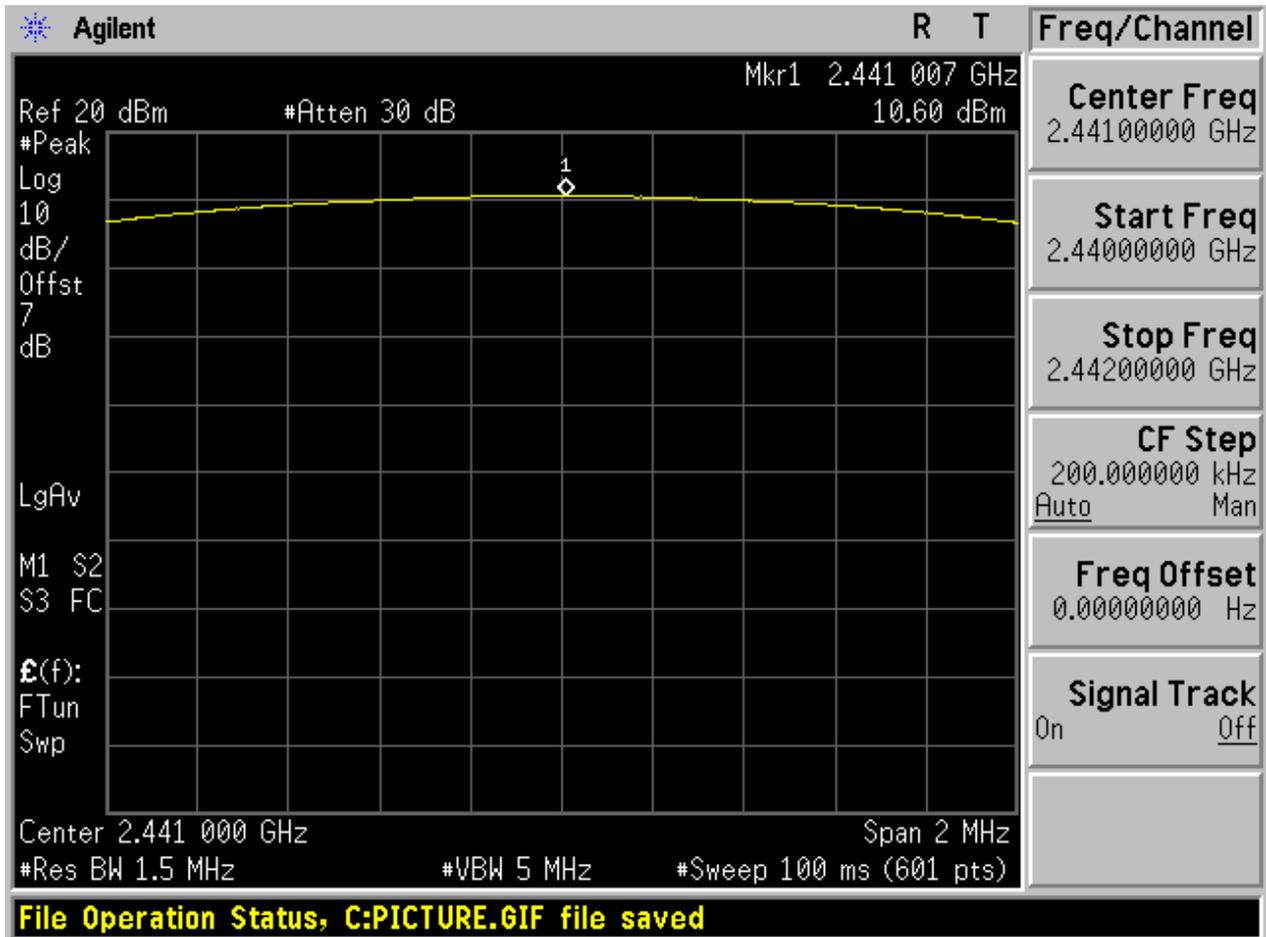


2.7 TM3_3DH5_Ch0



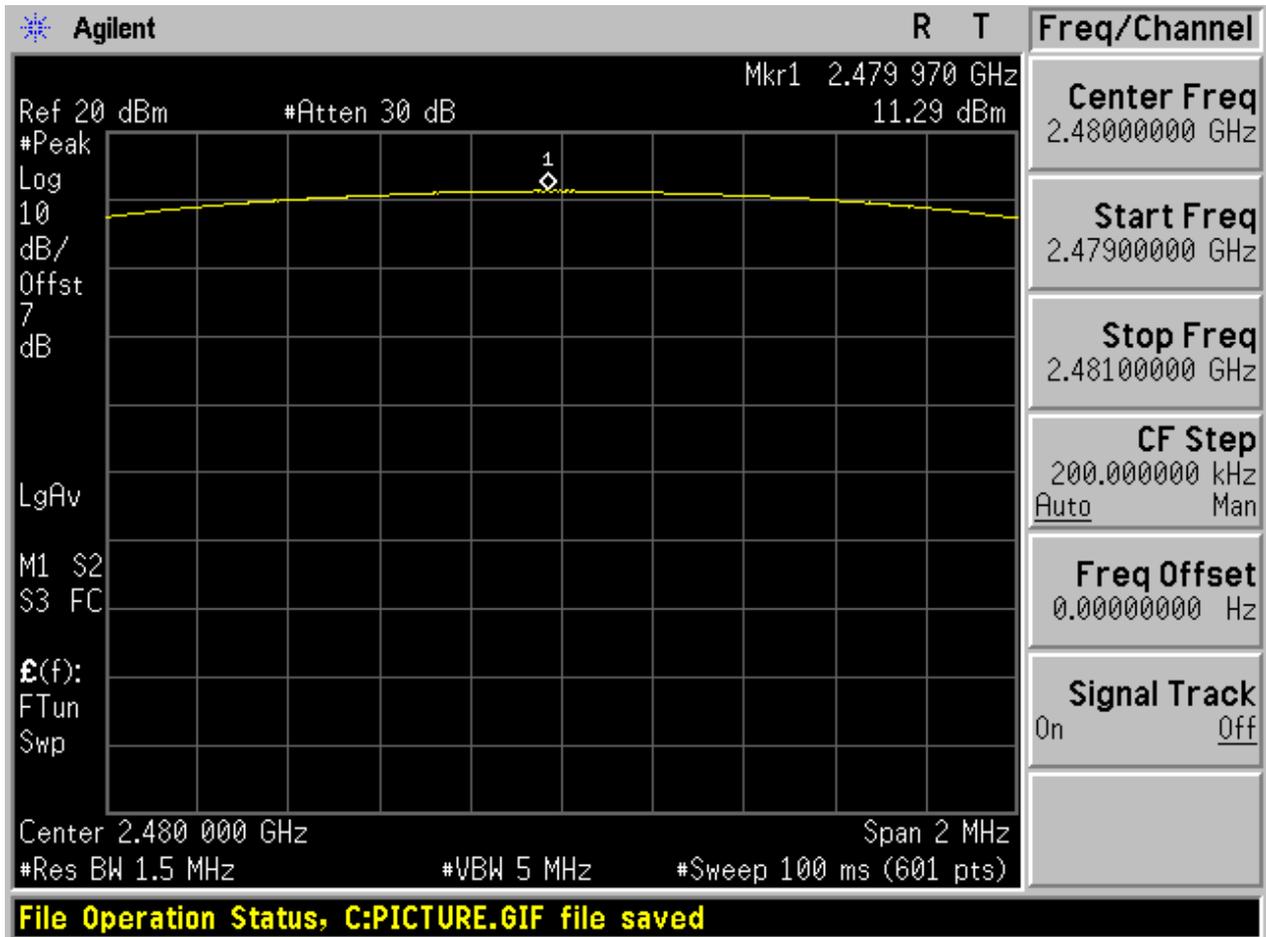


2.8 TM3_3DH5_Ch39





2.9 TM3_3DH5_Ch78





Appendix F: Band edge spurious emission



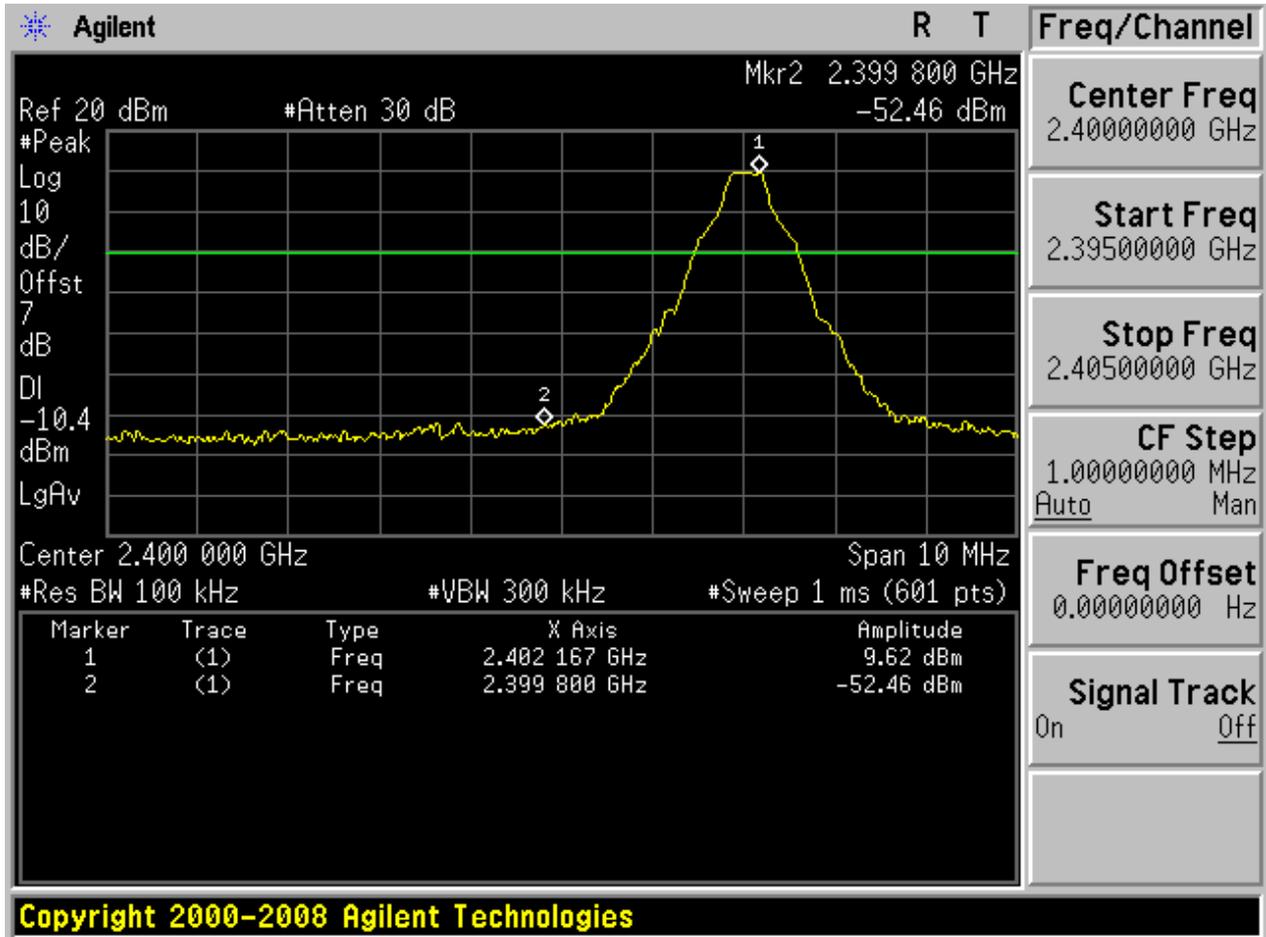
1 Result Table

EUT Conf.	Channel No.	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max. Spurious Level [dBm]	Limit [dBm]	Result
TM1_DH5_Ch0	0	2402	9.62	Off	-52.46	-10.38	Pass
			9.41	On	-54.46	-10.59	Pass
TM1_DH5_Ch78	78	2480	10.75	Off	-53.31	-9.25	Pass
			10.41	On	-54.55	-9.59	Pass
TM2_2DH5_Ch0	0	2402	7.26	Off	-51.88	-12.74	Pass
			7.16	On	-54.58	-12.84	Pass
TM2_2DH5_Ch78	78	2480	8.46	Off	-52.85	-11.54	Pass
			8.48	On	-53.84	-11.52	Pass
TM3_3DH5_Ch0	0	2402	7.24	Off	-52.47	-12.76	Pass
			6.52	On	-54.78	-13.48	Pass
TM3_3DH5_Ch78	78	2480	8.52	Off	-53.57	-11.48	Pass
			6.38	On	-54.82	-13.62	Pass

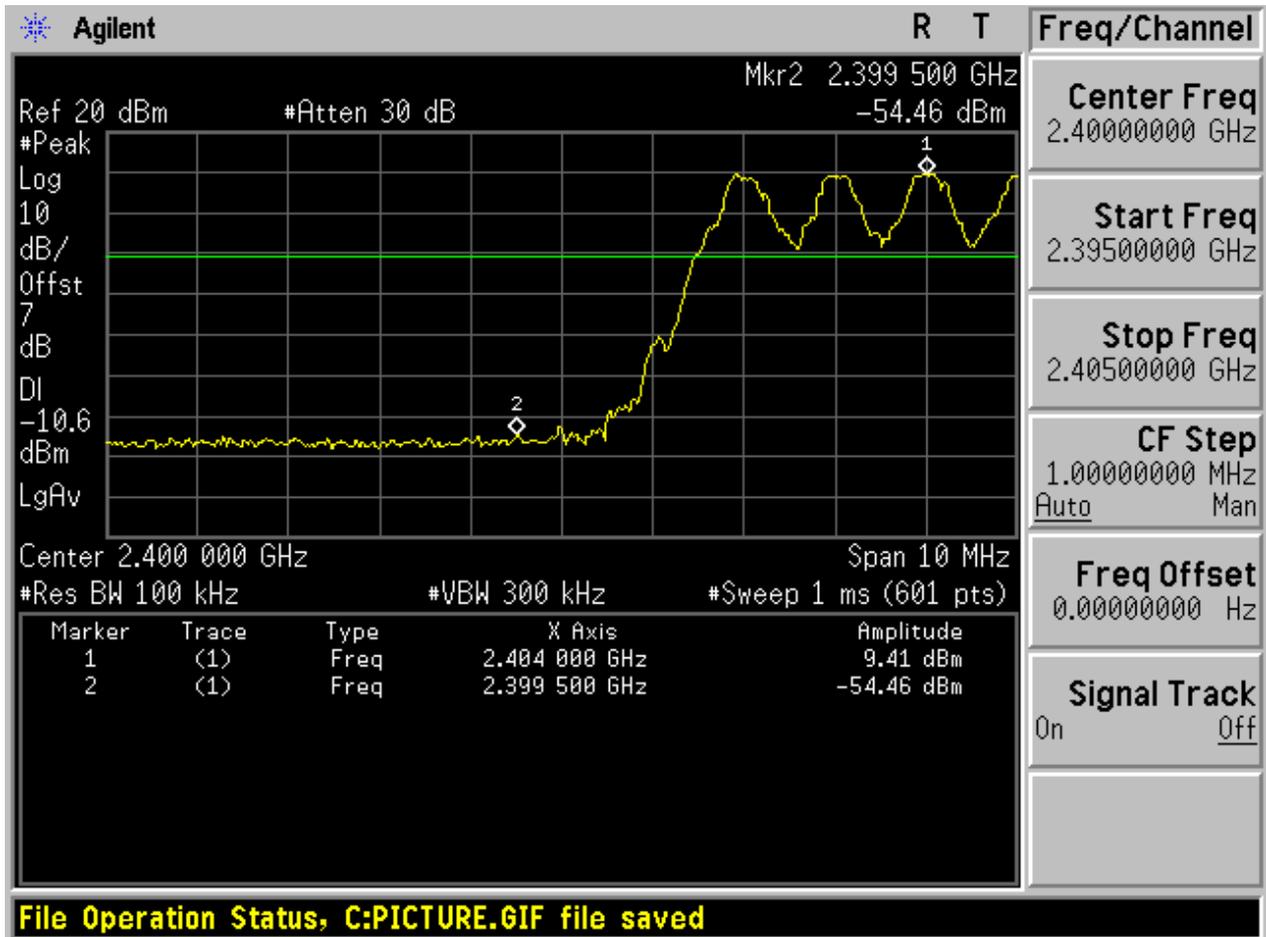
2 Test Plot

2.1 TM1_DH5_Ch0

No hopping

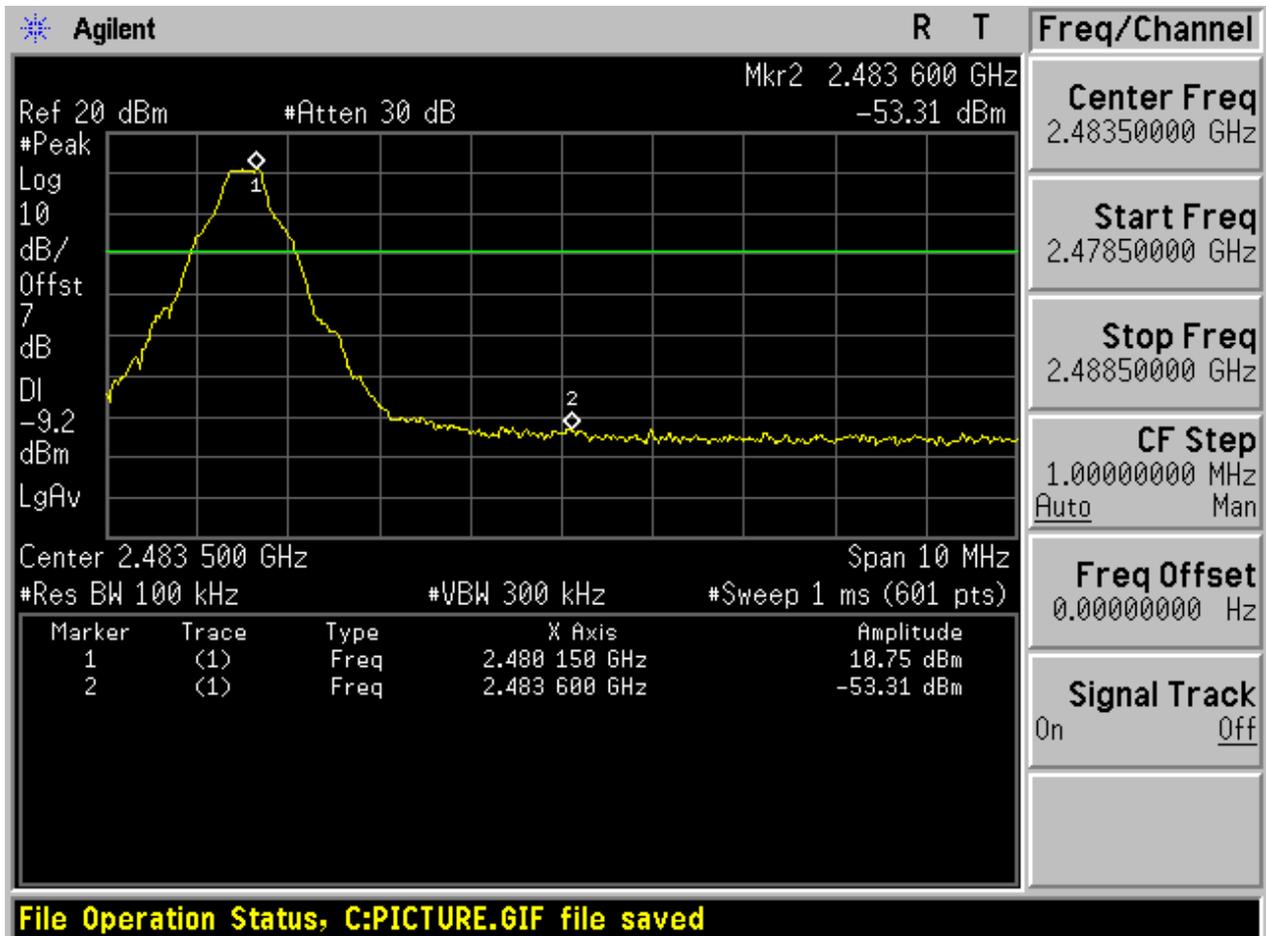


With hopping

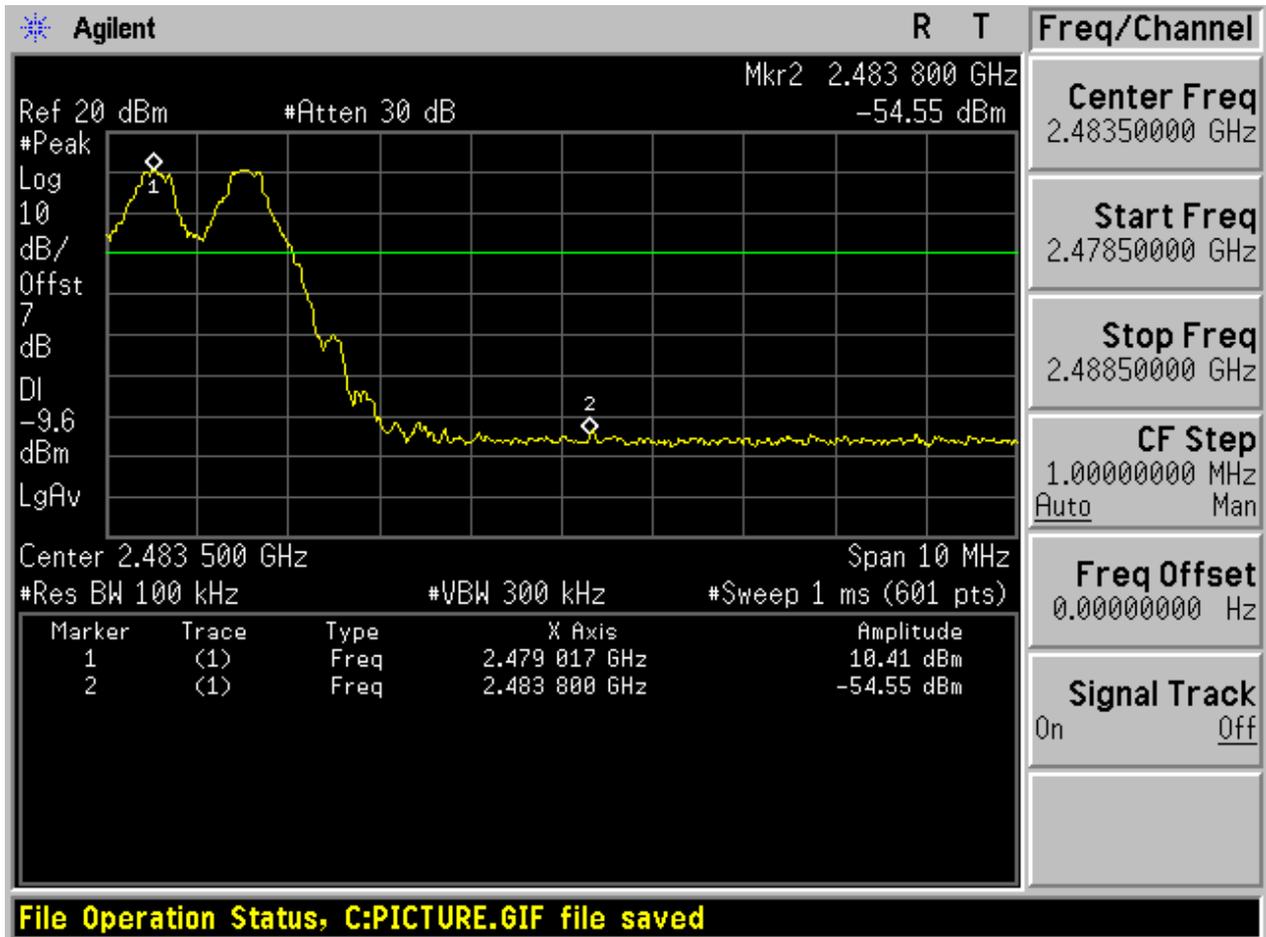


2.2 TM1_DH5_Ch78

No hopping

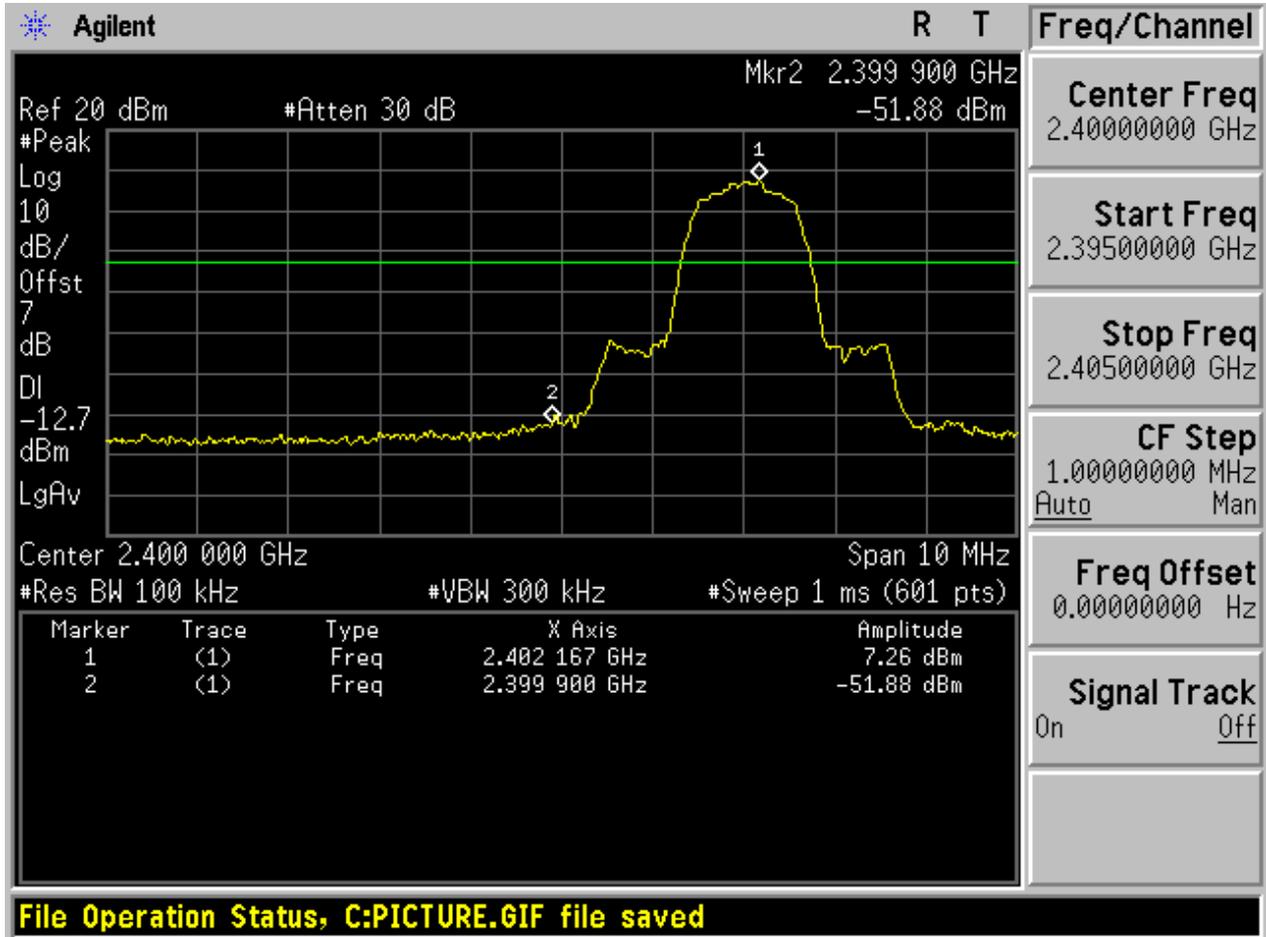


With hopping

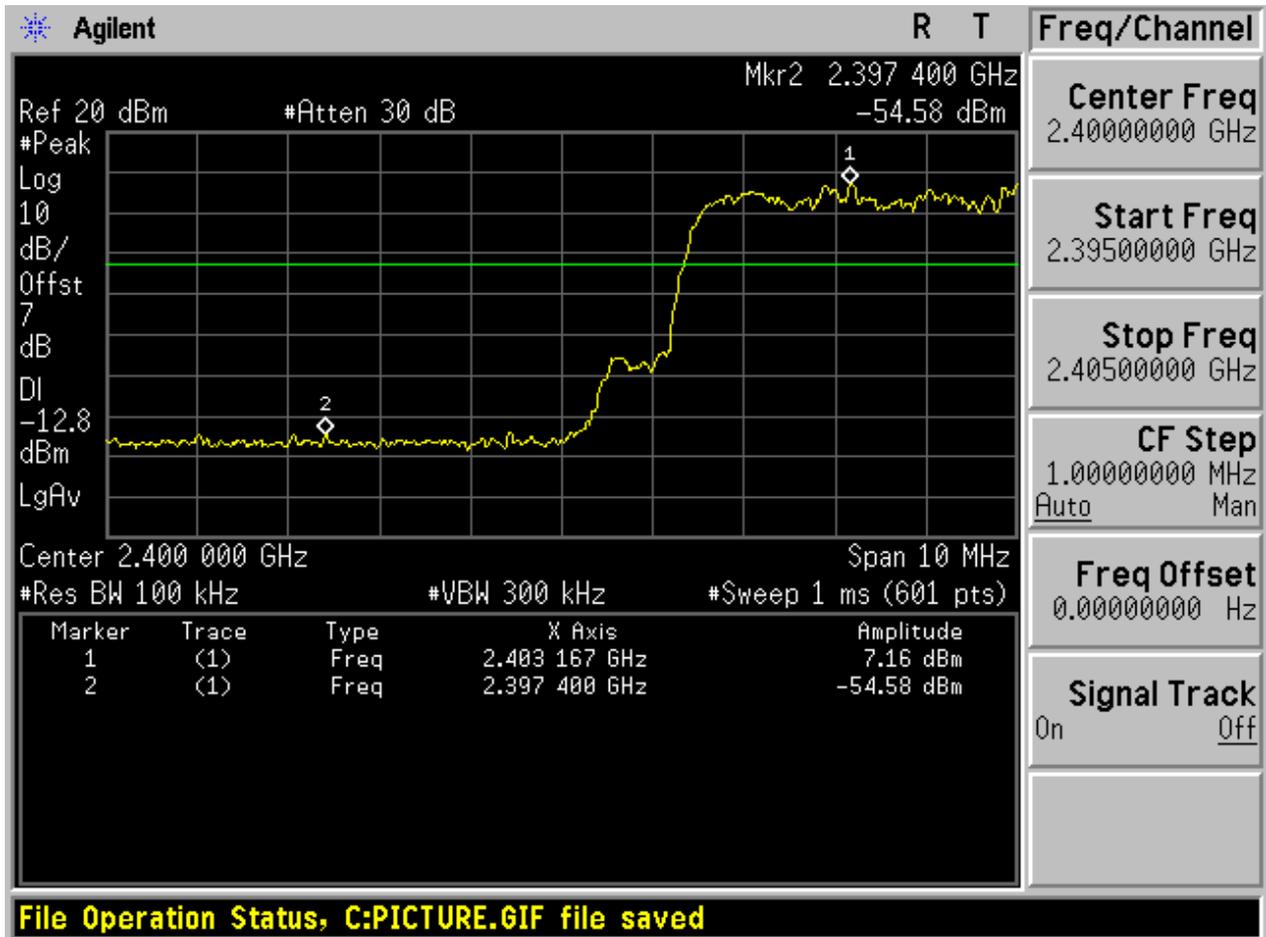


2.3 TM2_2DH5_Ch0

No hopping

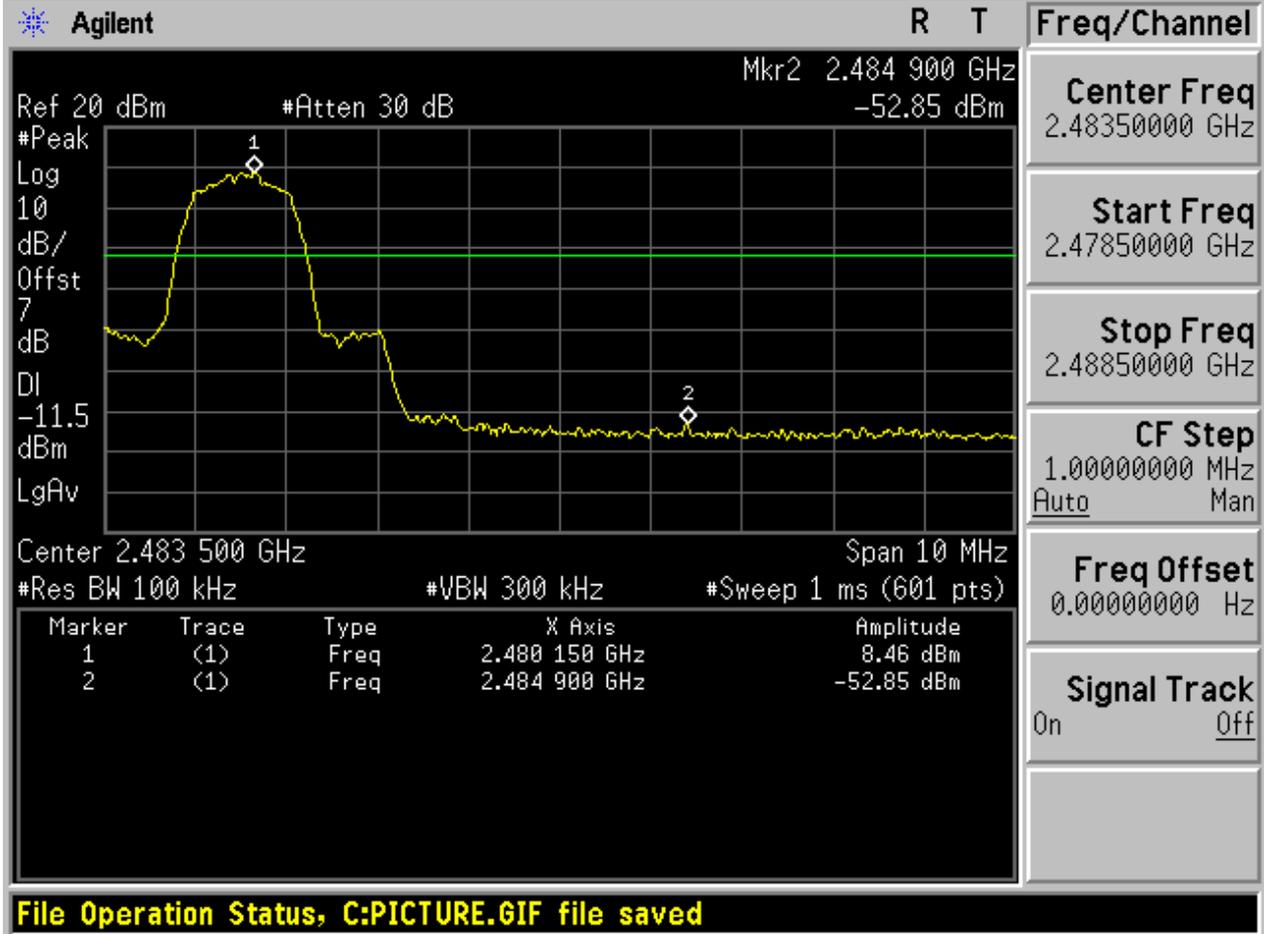


With hopping

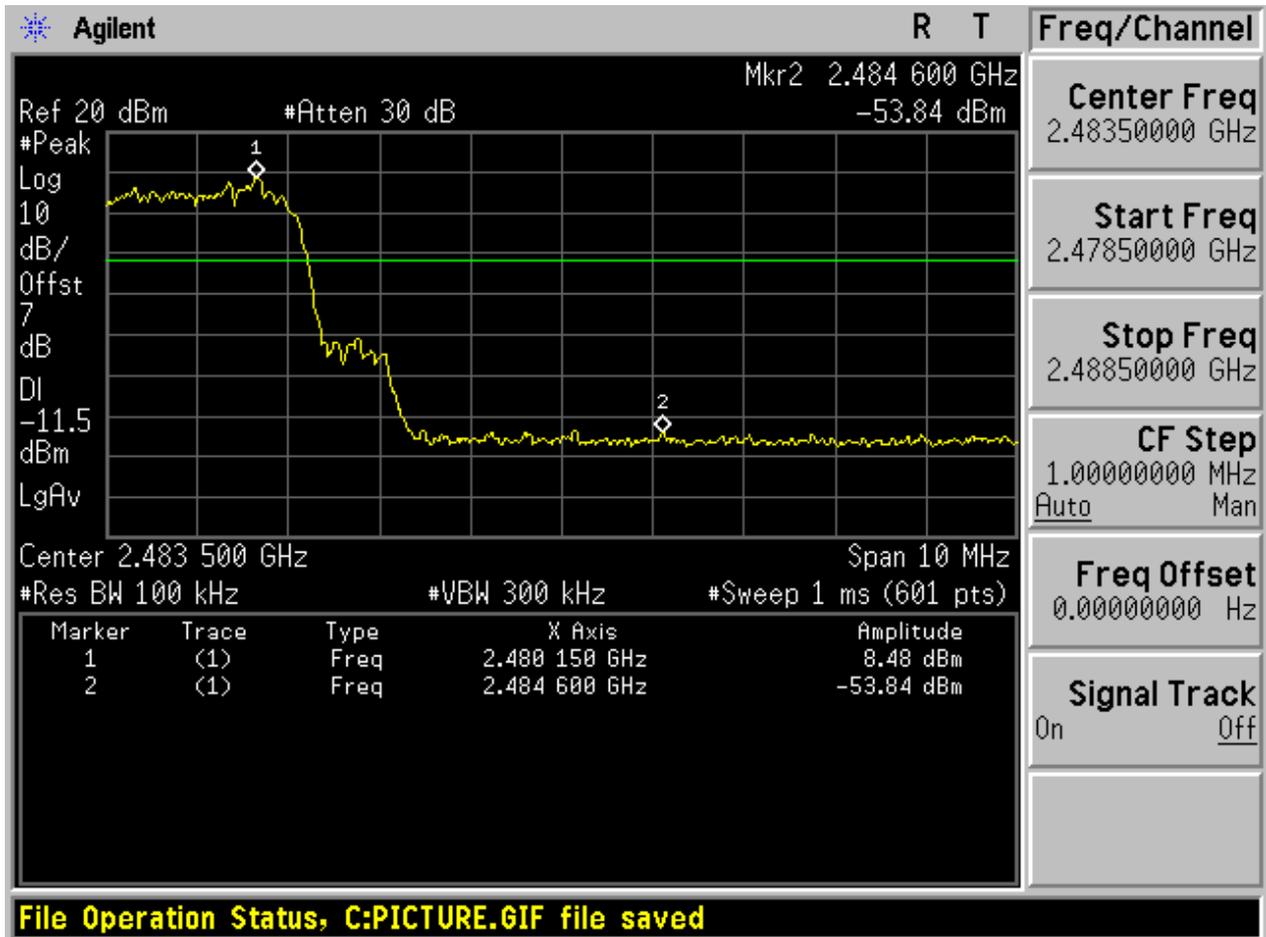


2.4 TM2_2DH5_Ch78

No hopping

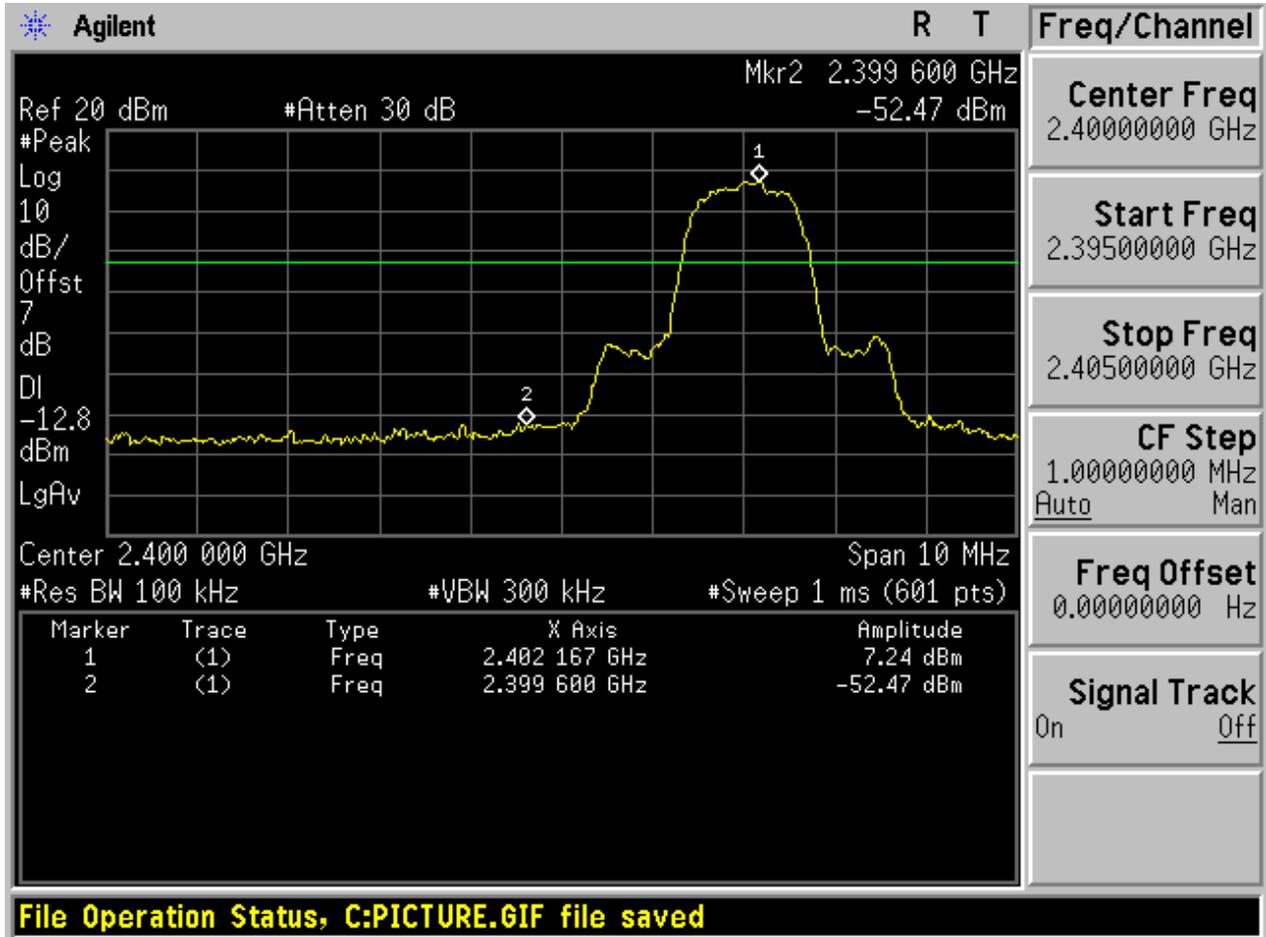


With hopping

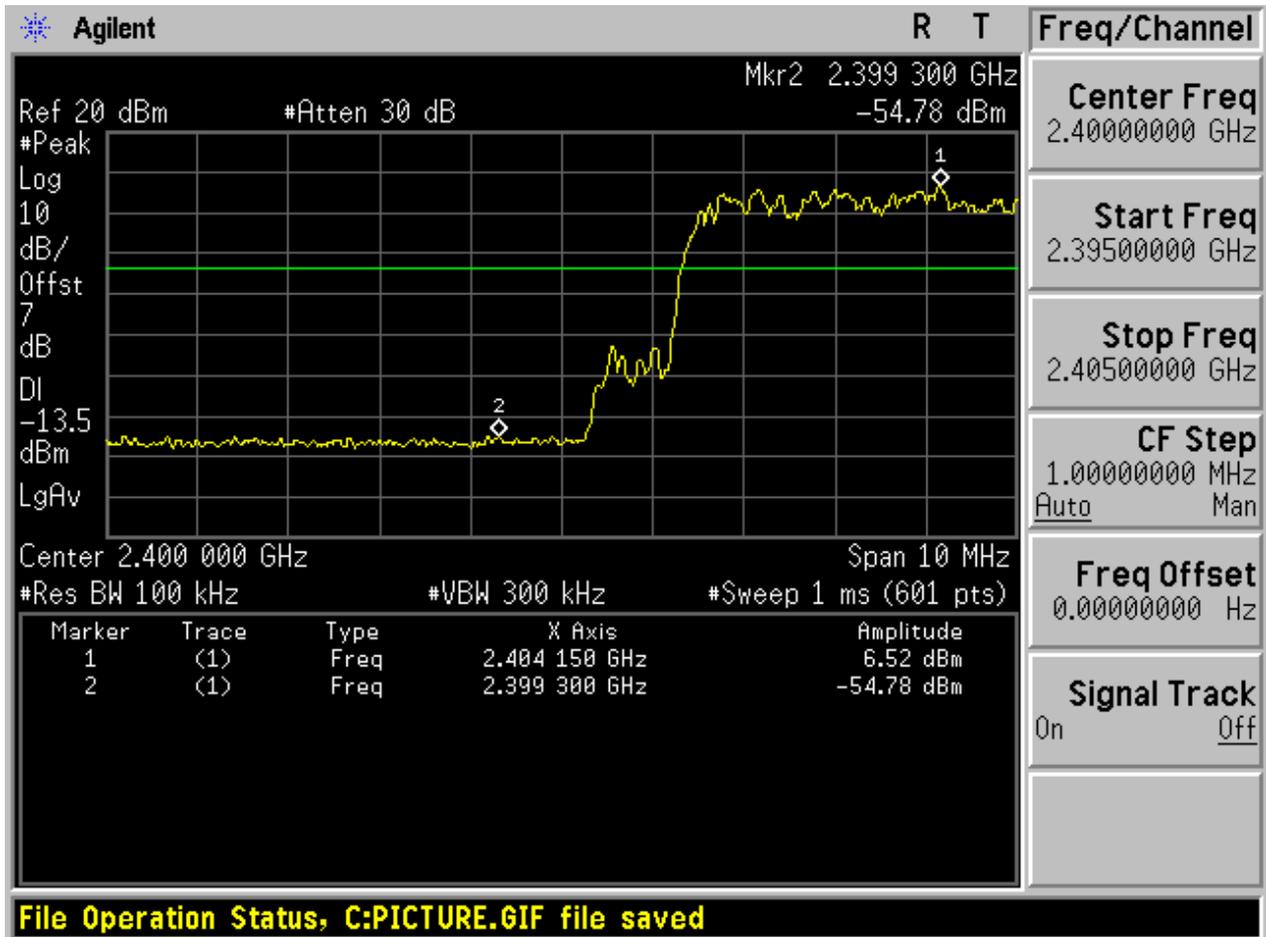


2.5 TM3_3DH5_Ch0

No hopping

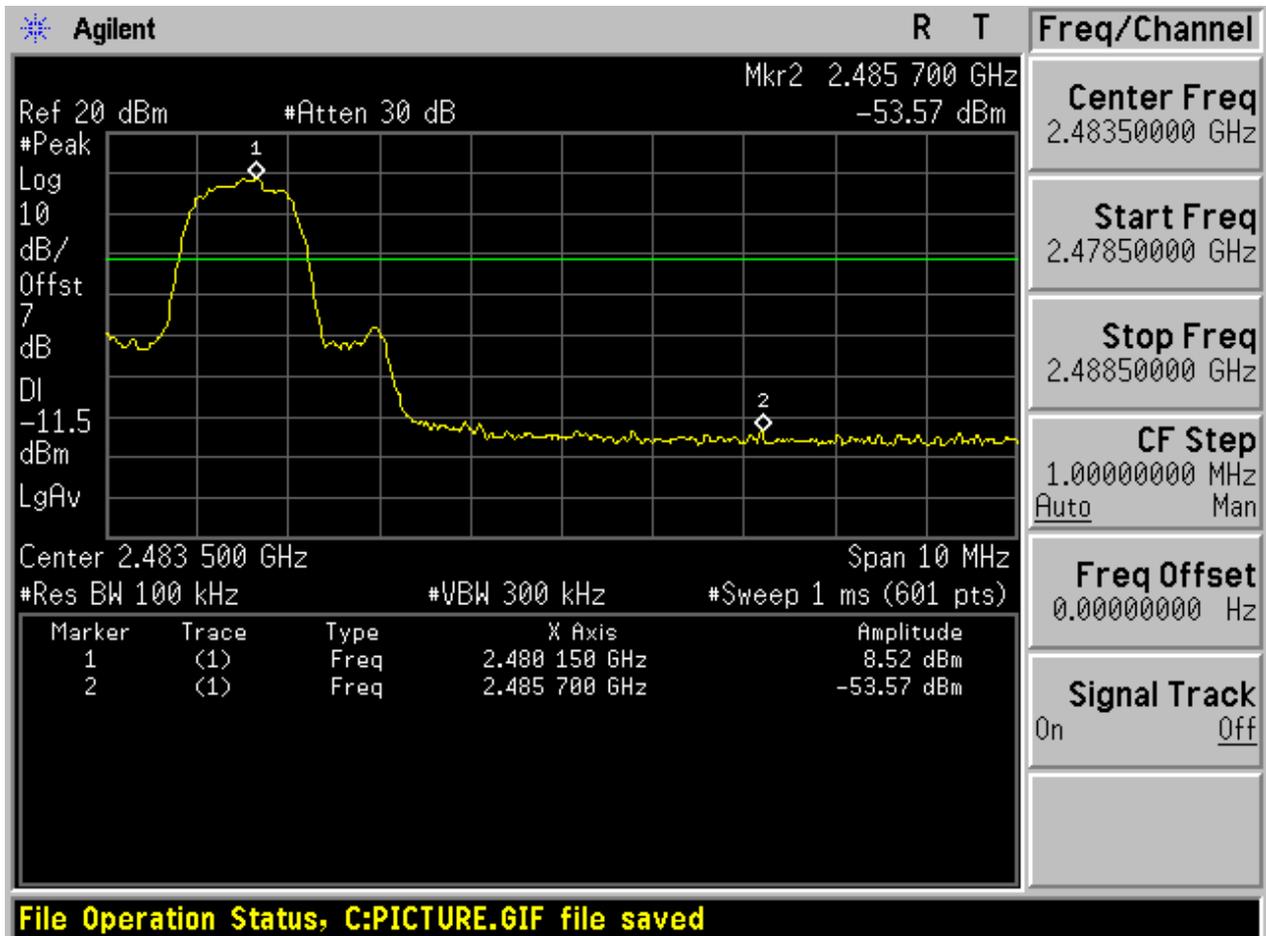


With hopping

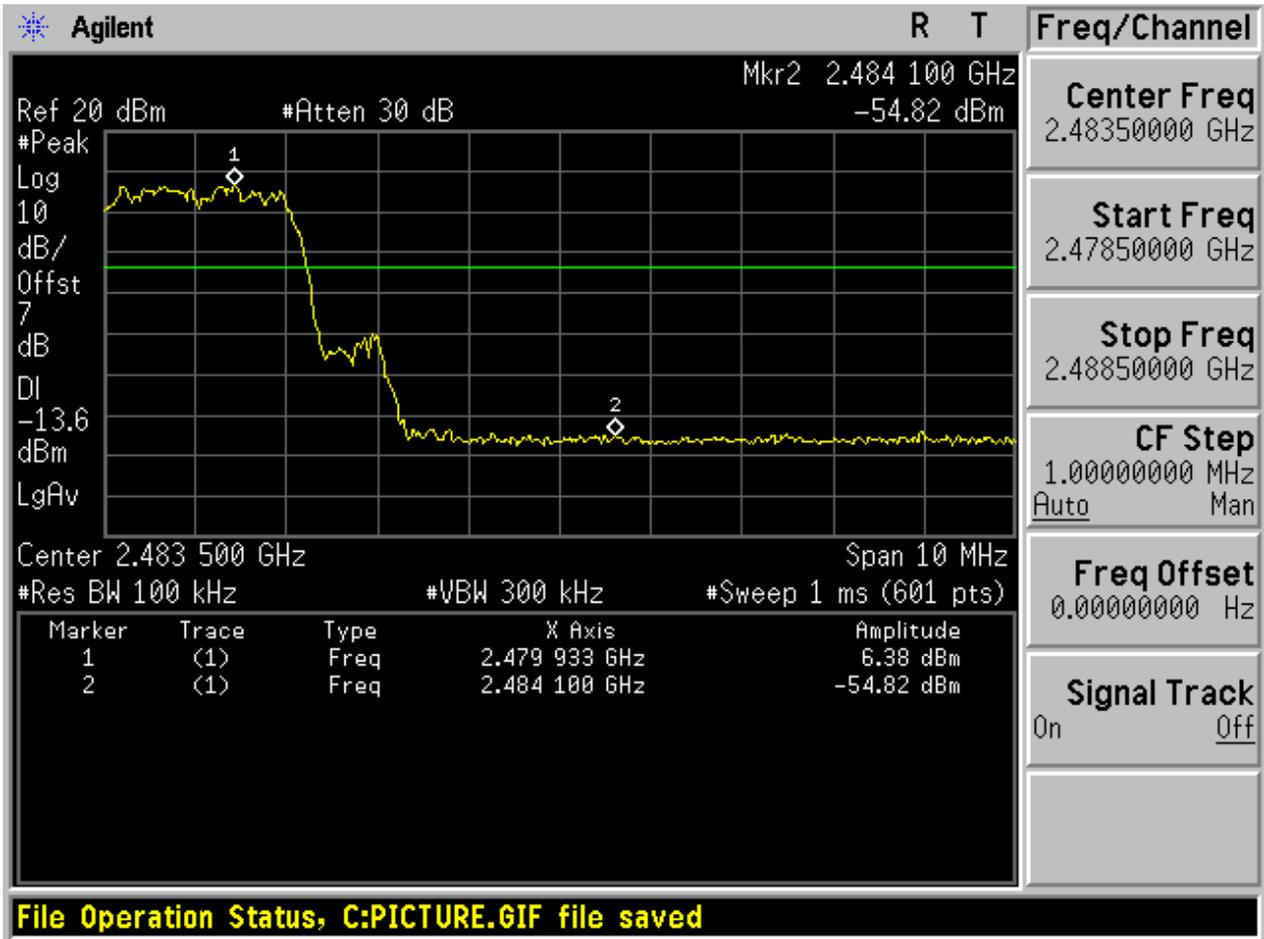


2.6 TM3_3DH5_Ch78

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”.

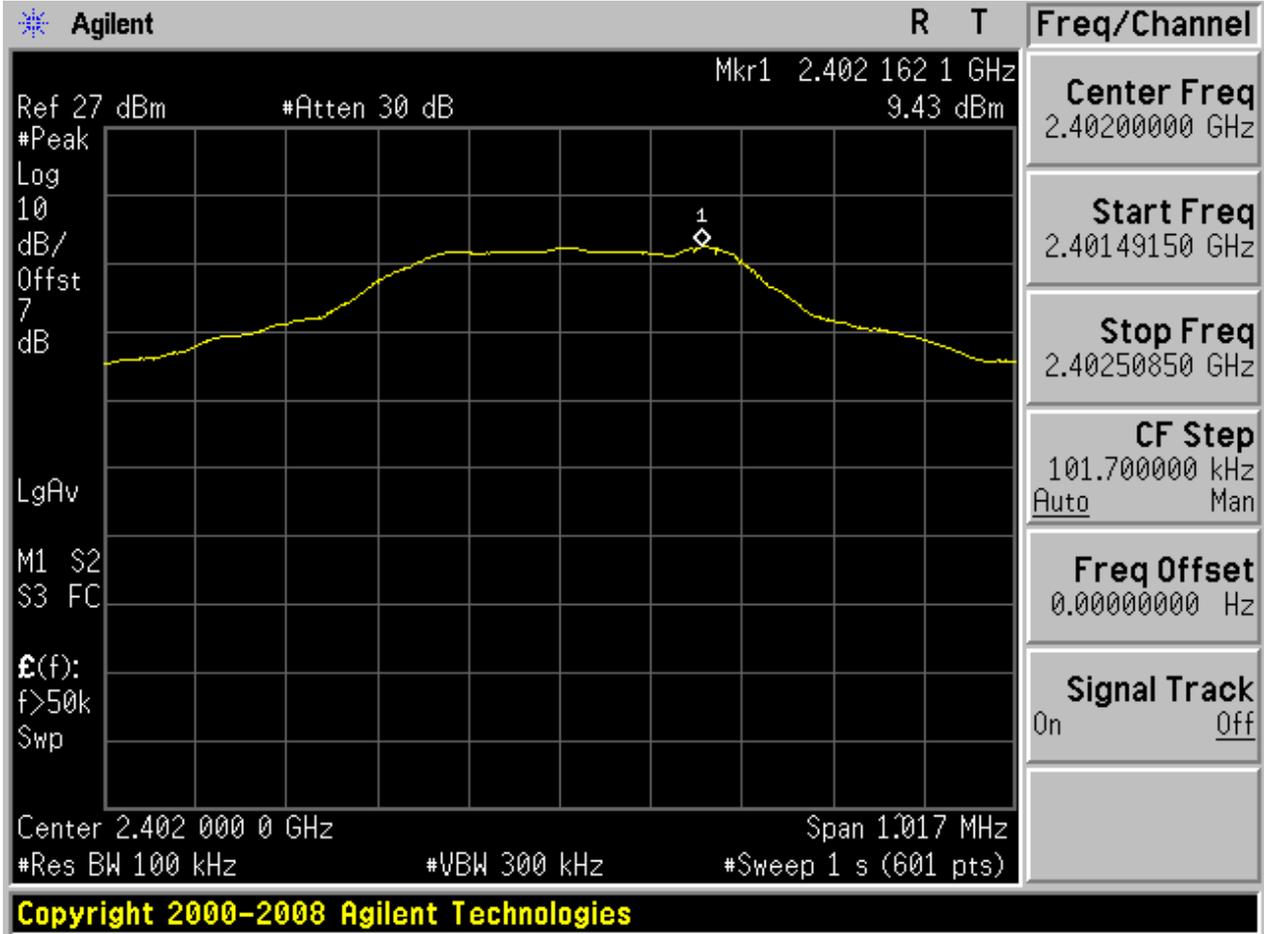
EUT Conf.	Pref [dBm/100 kHz]	Puw [dBm/100 kHz]	Verdict
TM1_DH5_Ch0	9.43	< Limit	Pass
TM1_DH5_Ch39	10.03	< Limit	Pass
TM1_DH5_Ch78	10.73	< Limit	Pass
TM2_2DH5_Ch0	7.16	< Limit	Pass
TM2_2DH5_Ch39	7.68	< Limit	Pass
TM2_2DH5_Ch78	8.45	< Limit	Pass
TM3_3DH5_Ch0	7.20	< Limit	Pass
TM3_3DH5_Ch39	7.69	< Limit	Pass
TM3_3DH5_Ch78	7.49	< Limit	Pass



2 Test Plot

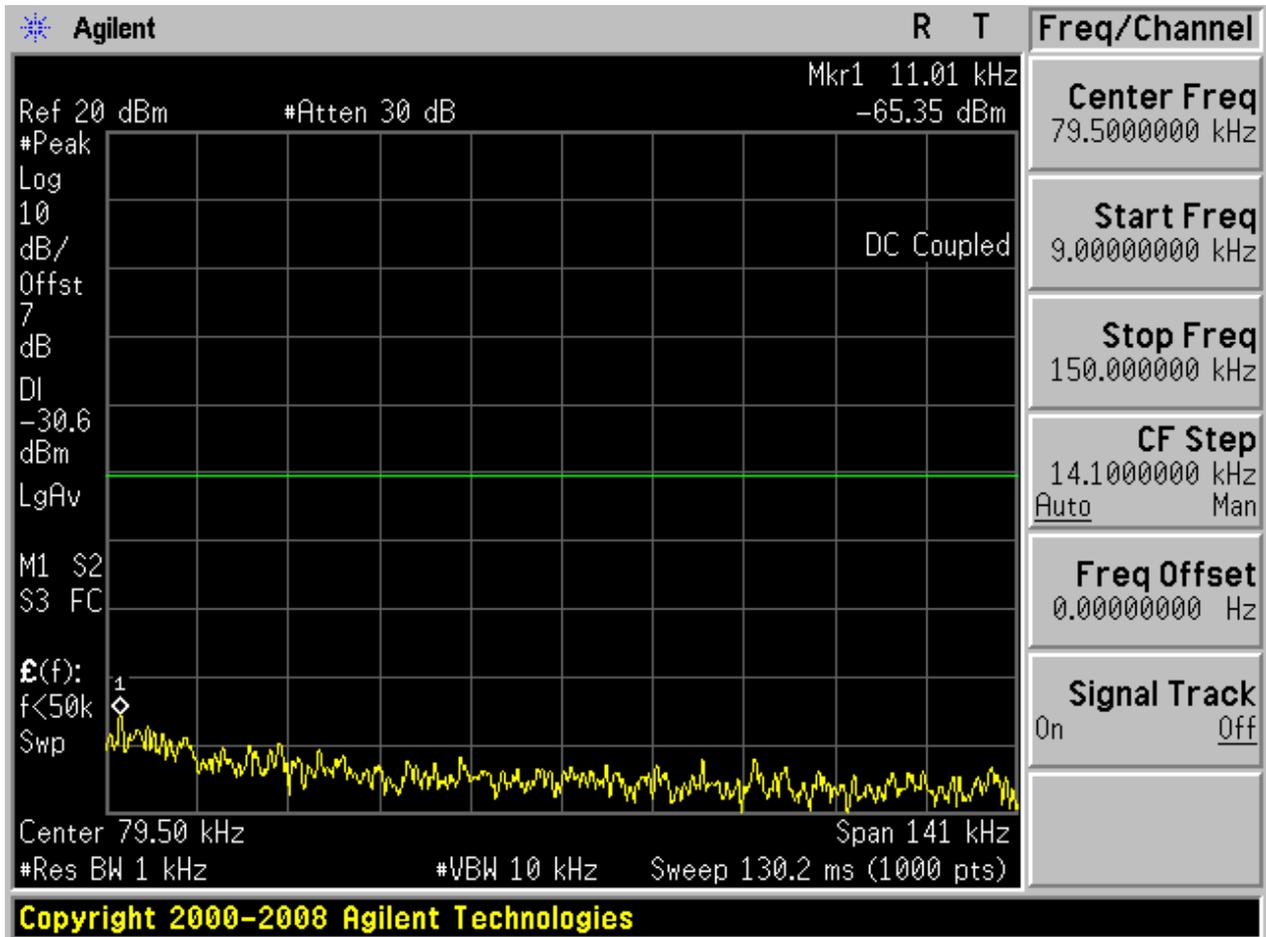
2.1 TM1_DH5_Ch0

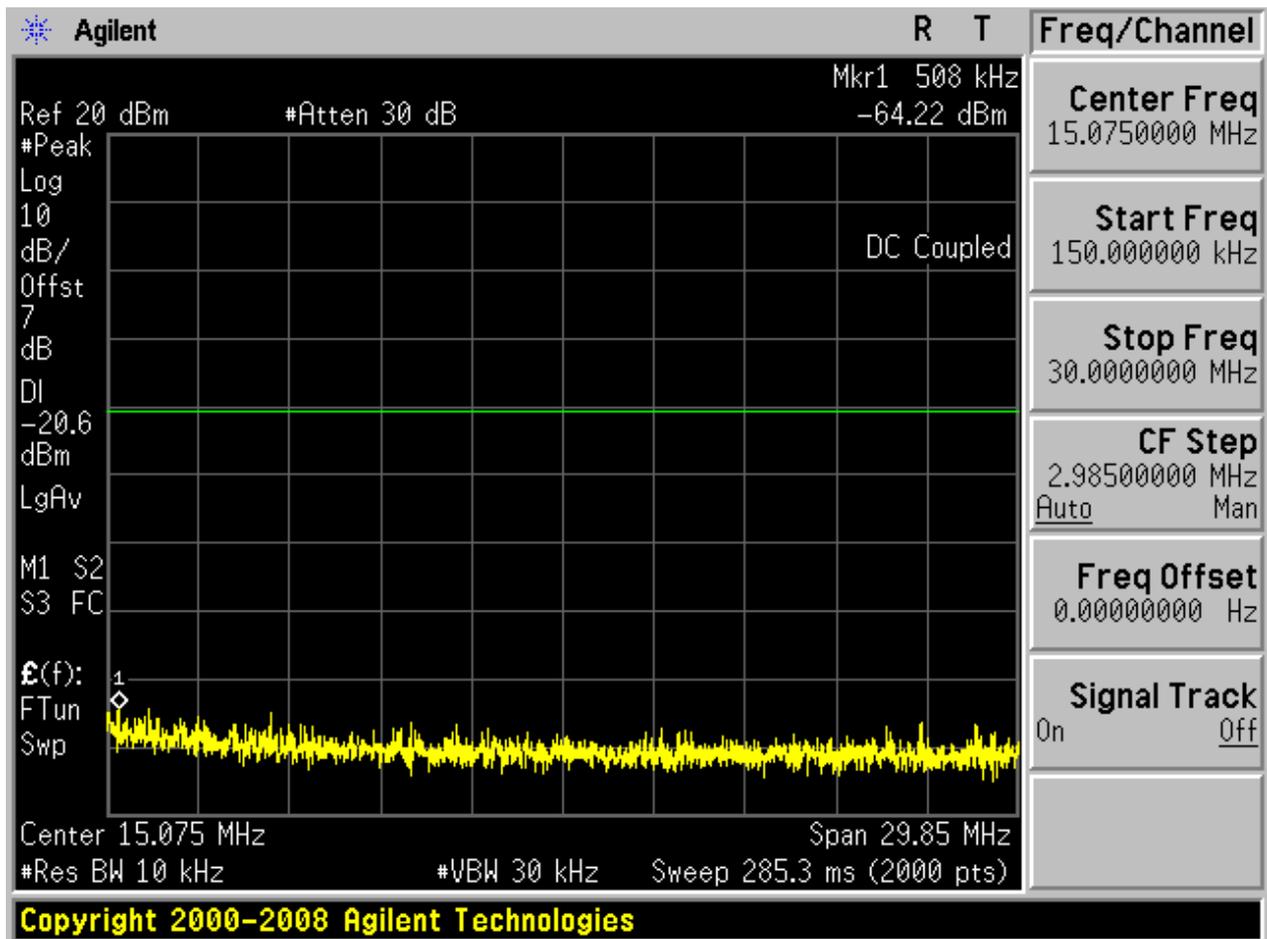
2.1.1 Pref

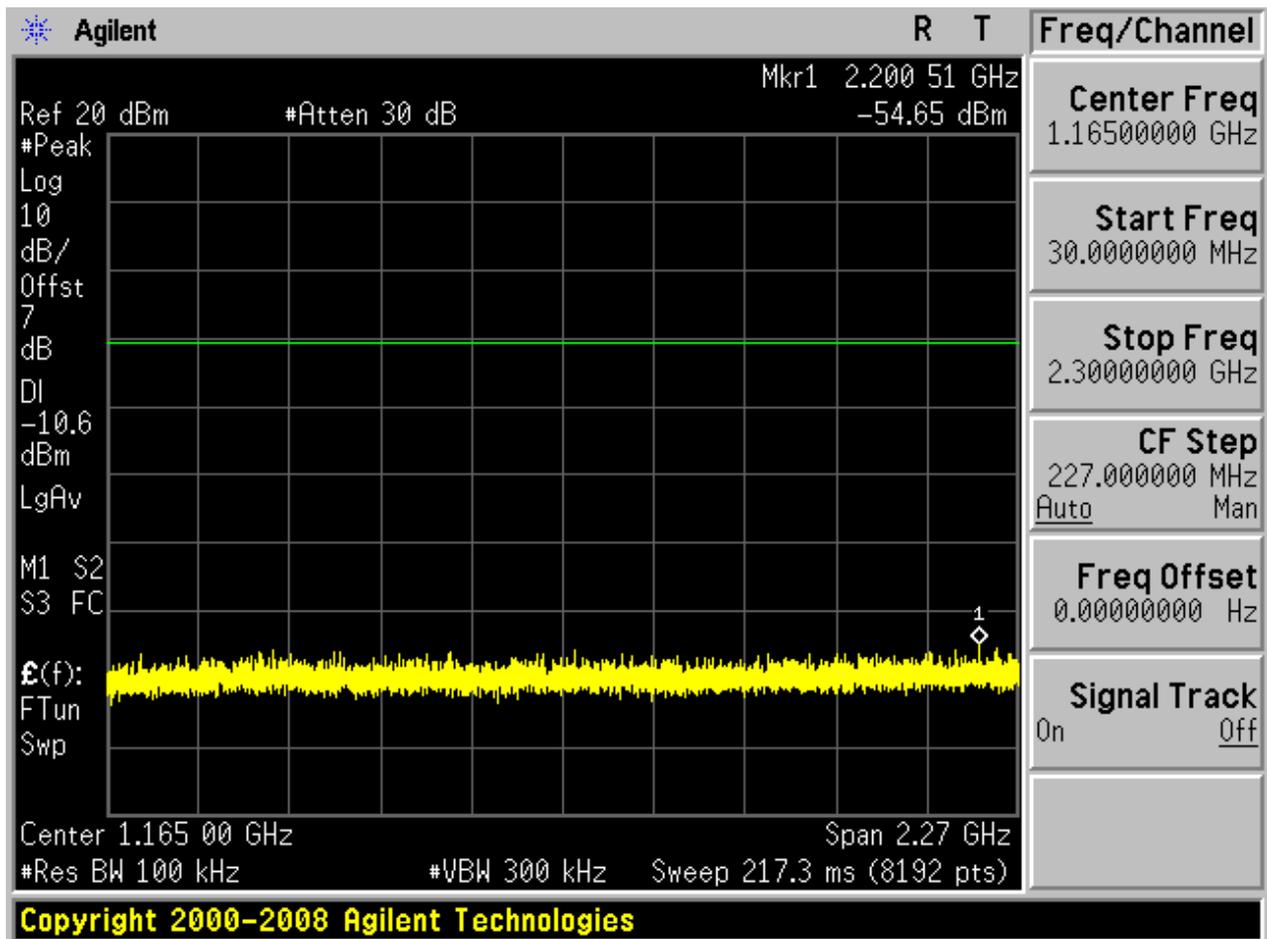


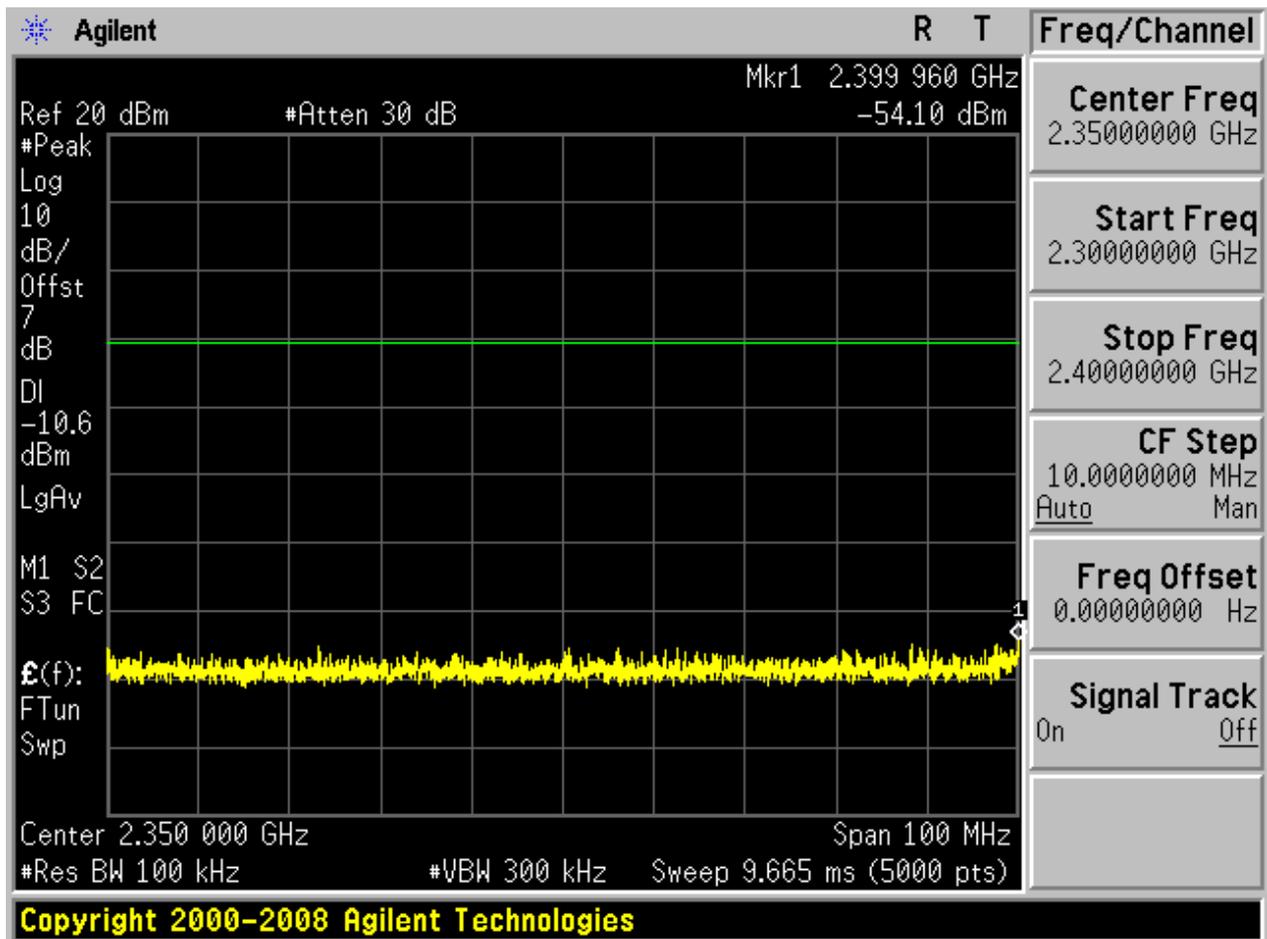


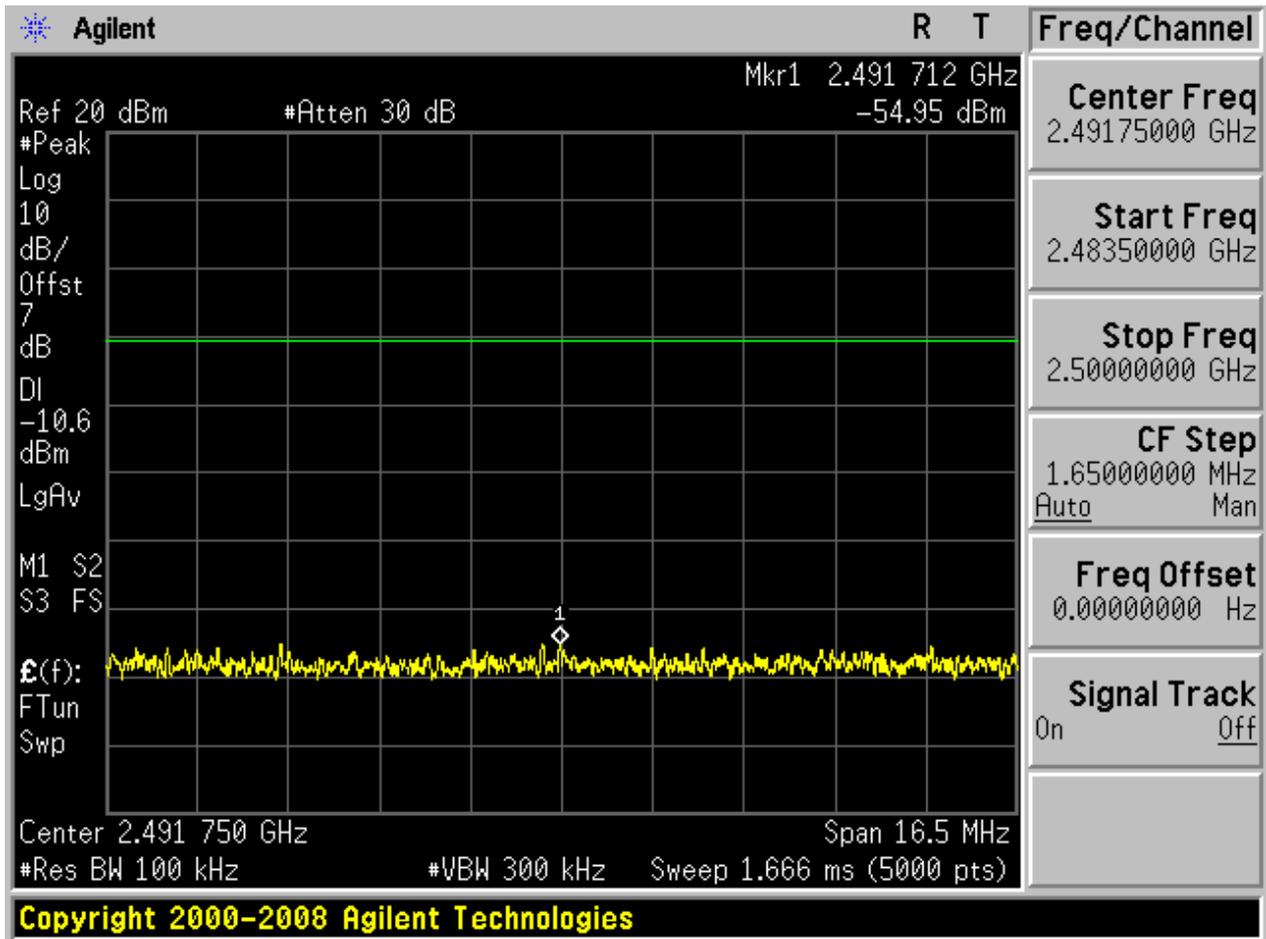
2.1.2 Puw

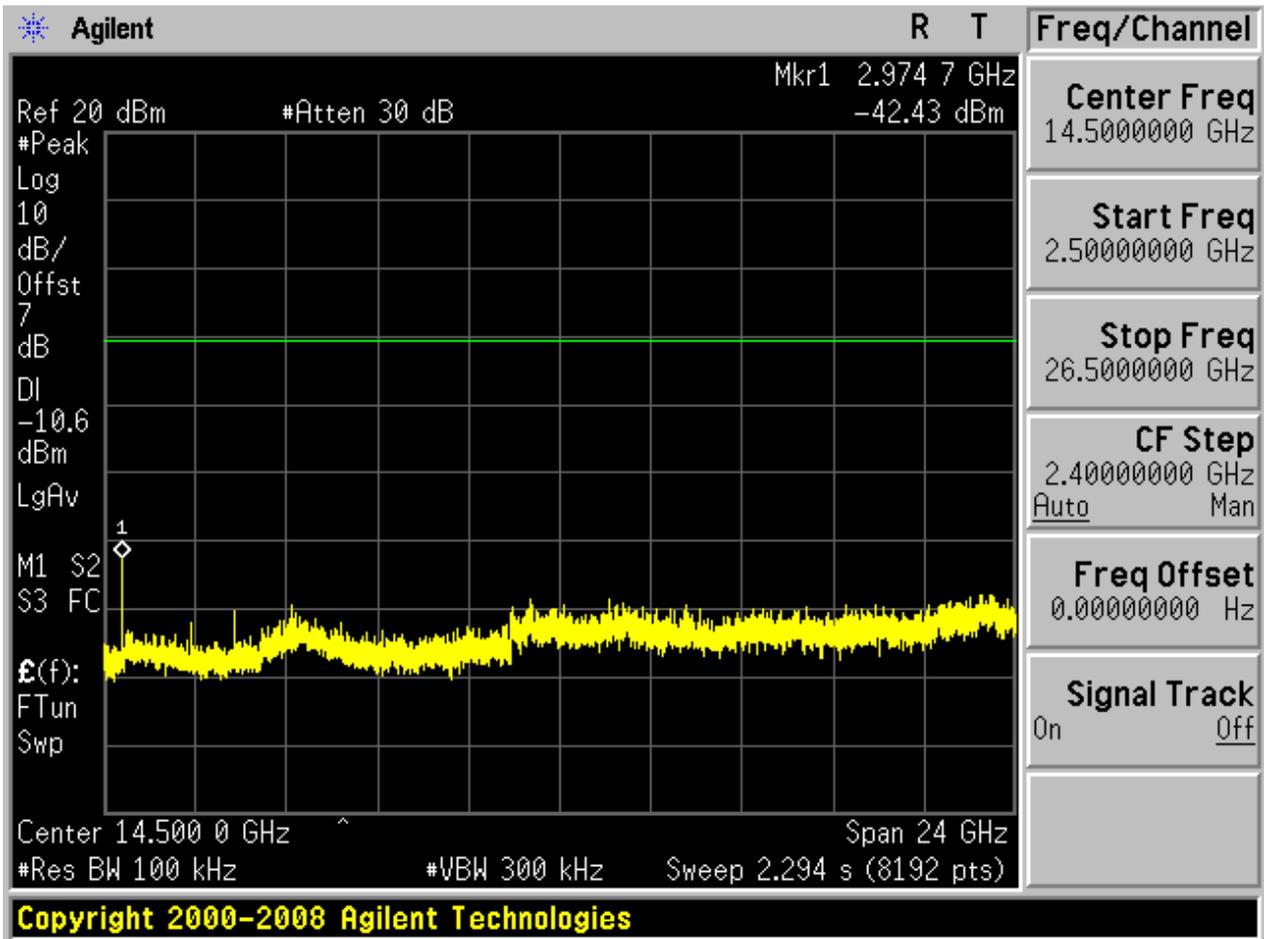








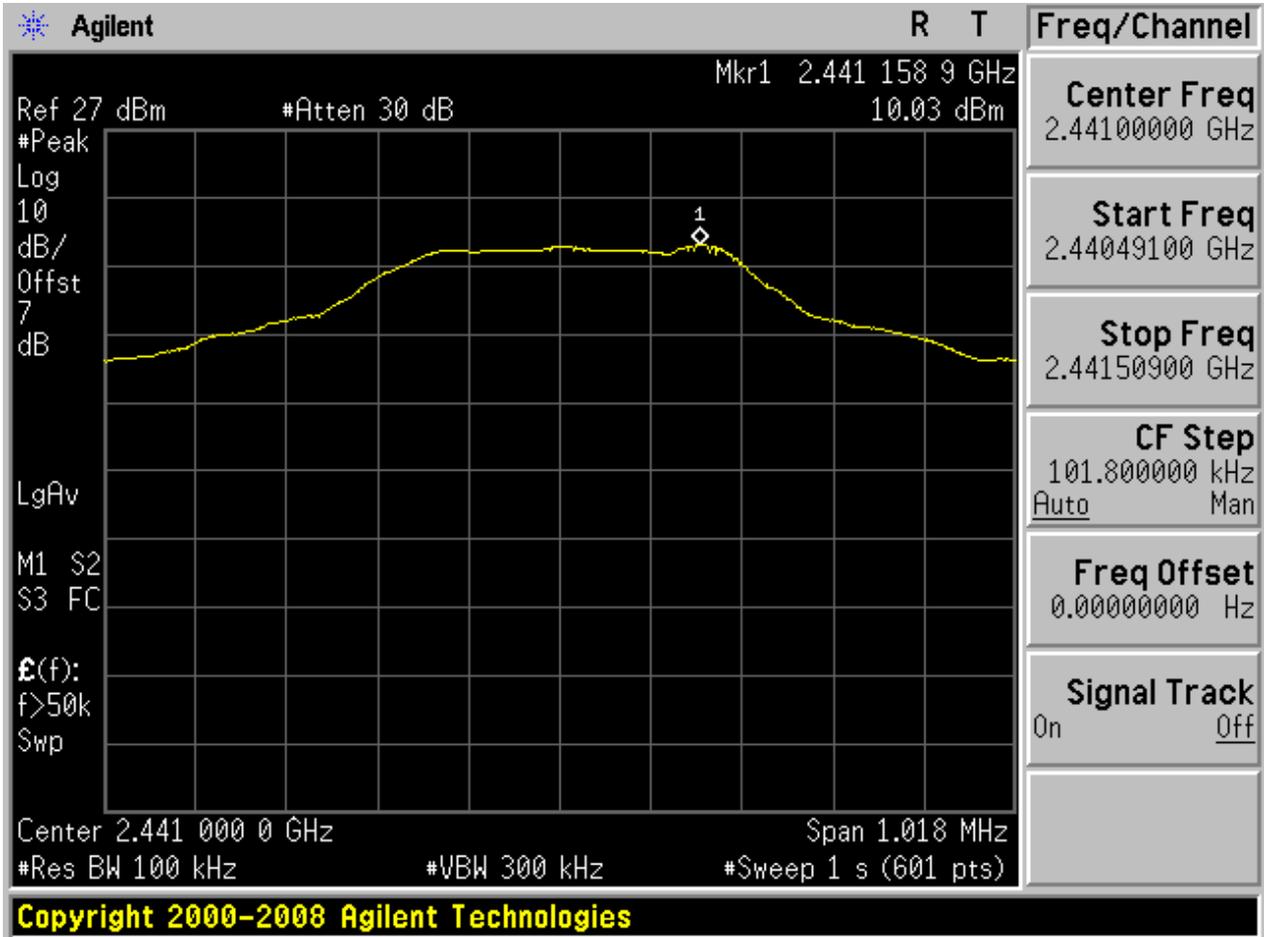






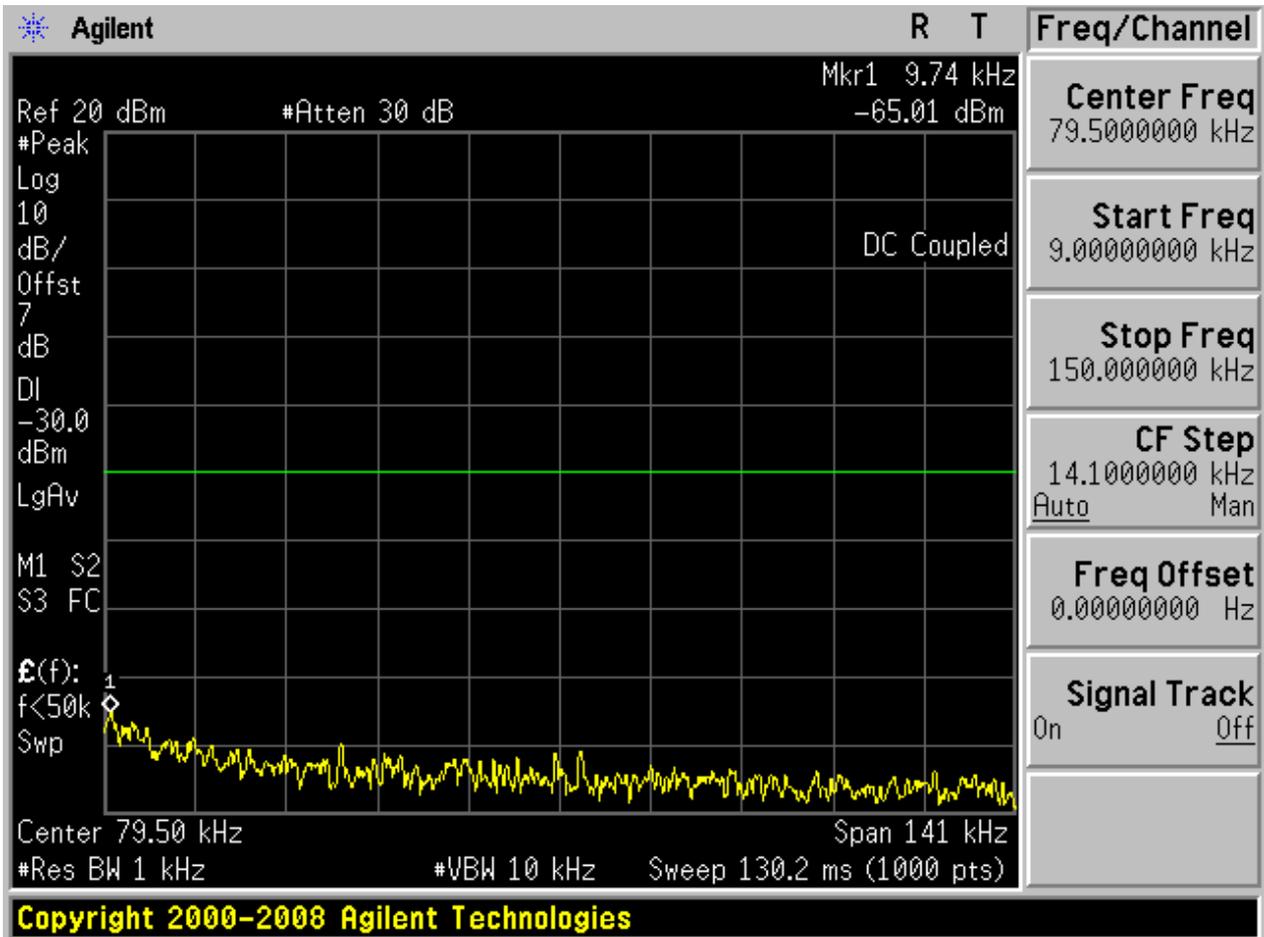
2.2 TM1_DH5_Ch39

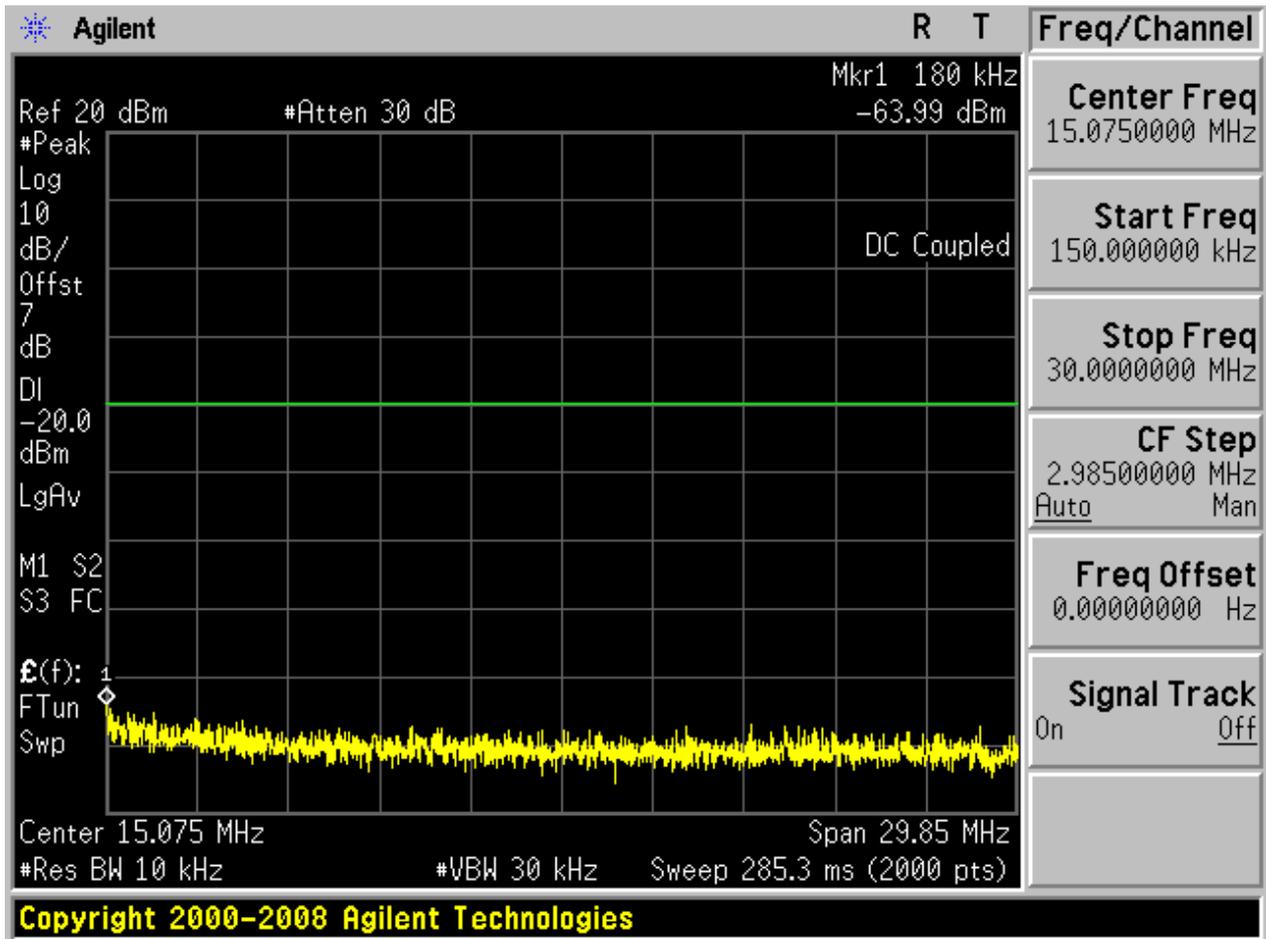
2.2.1 Pref

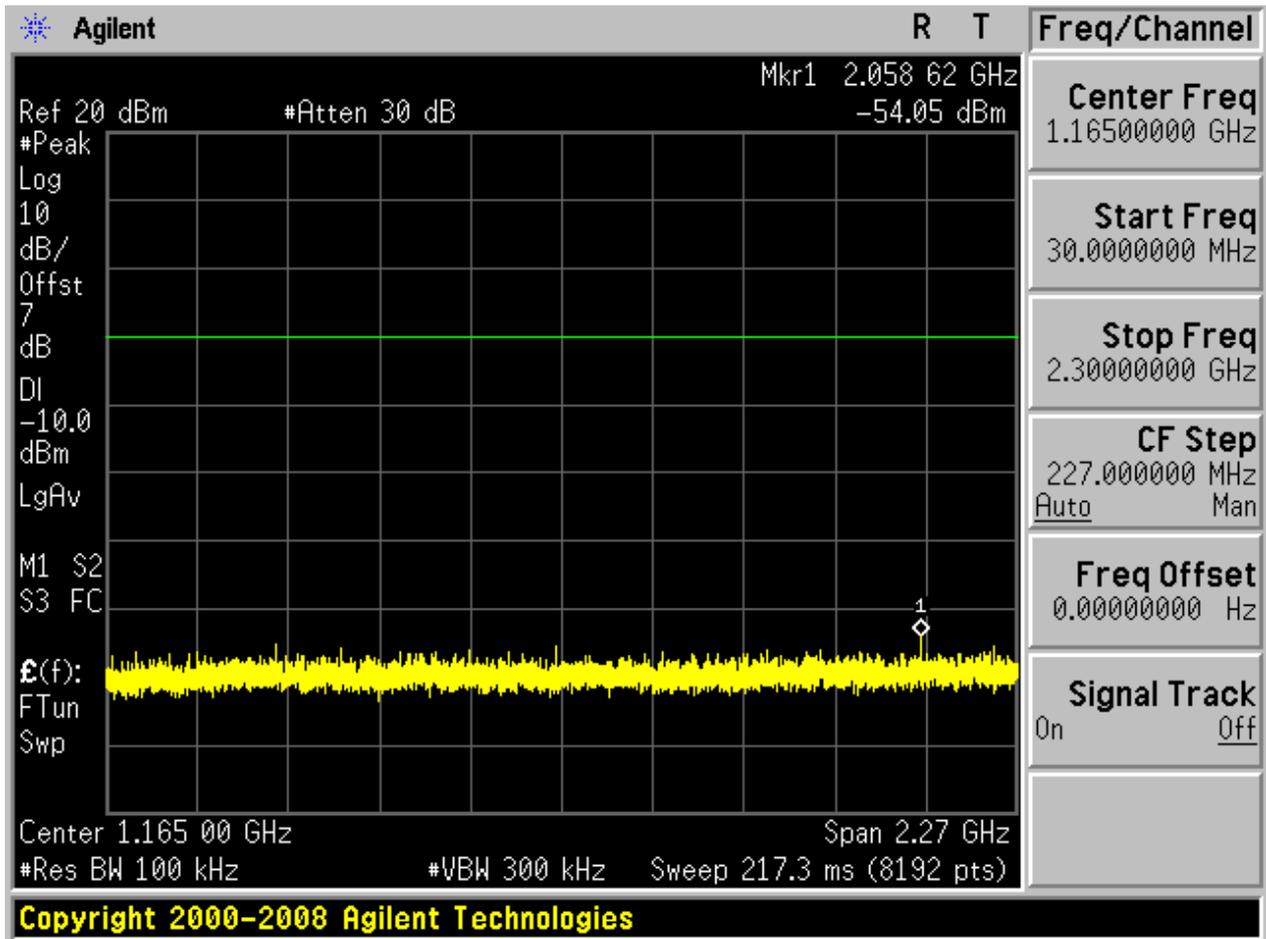


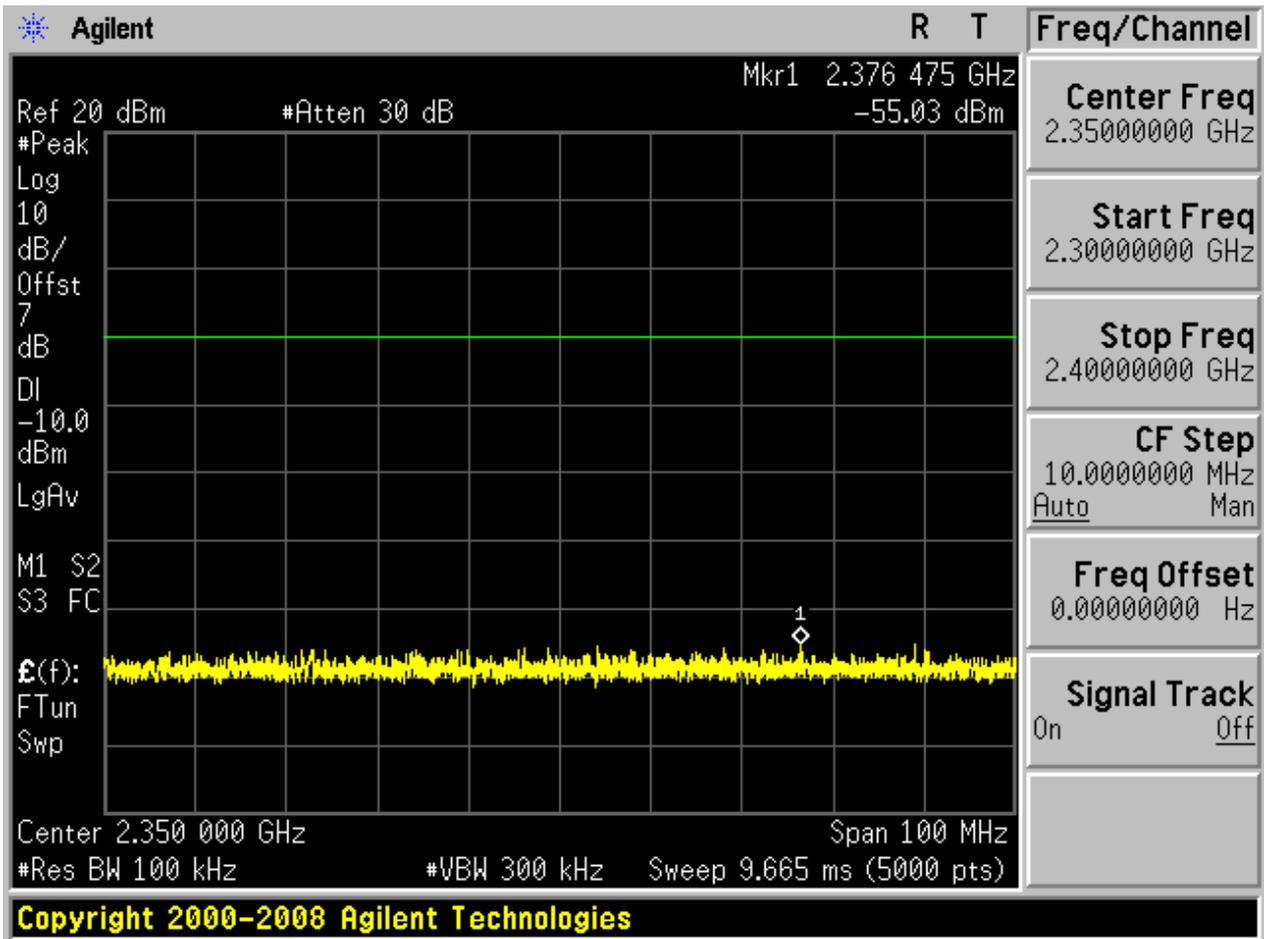


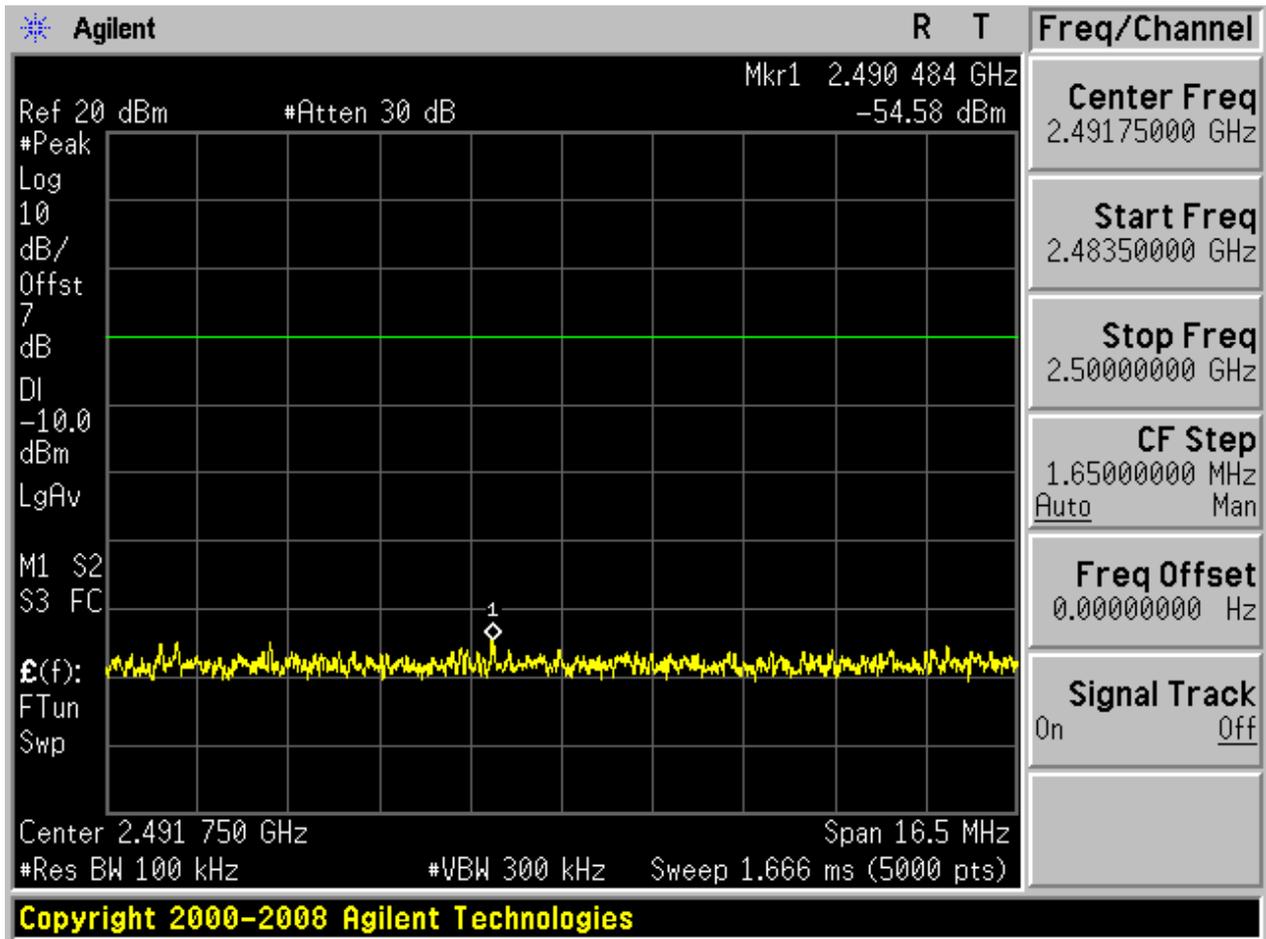
2.2.2 Puw

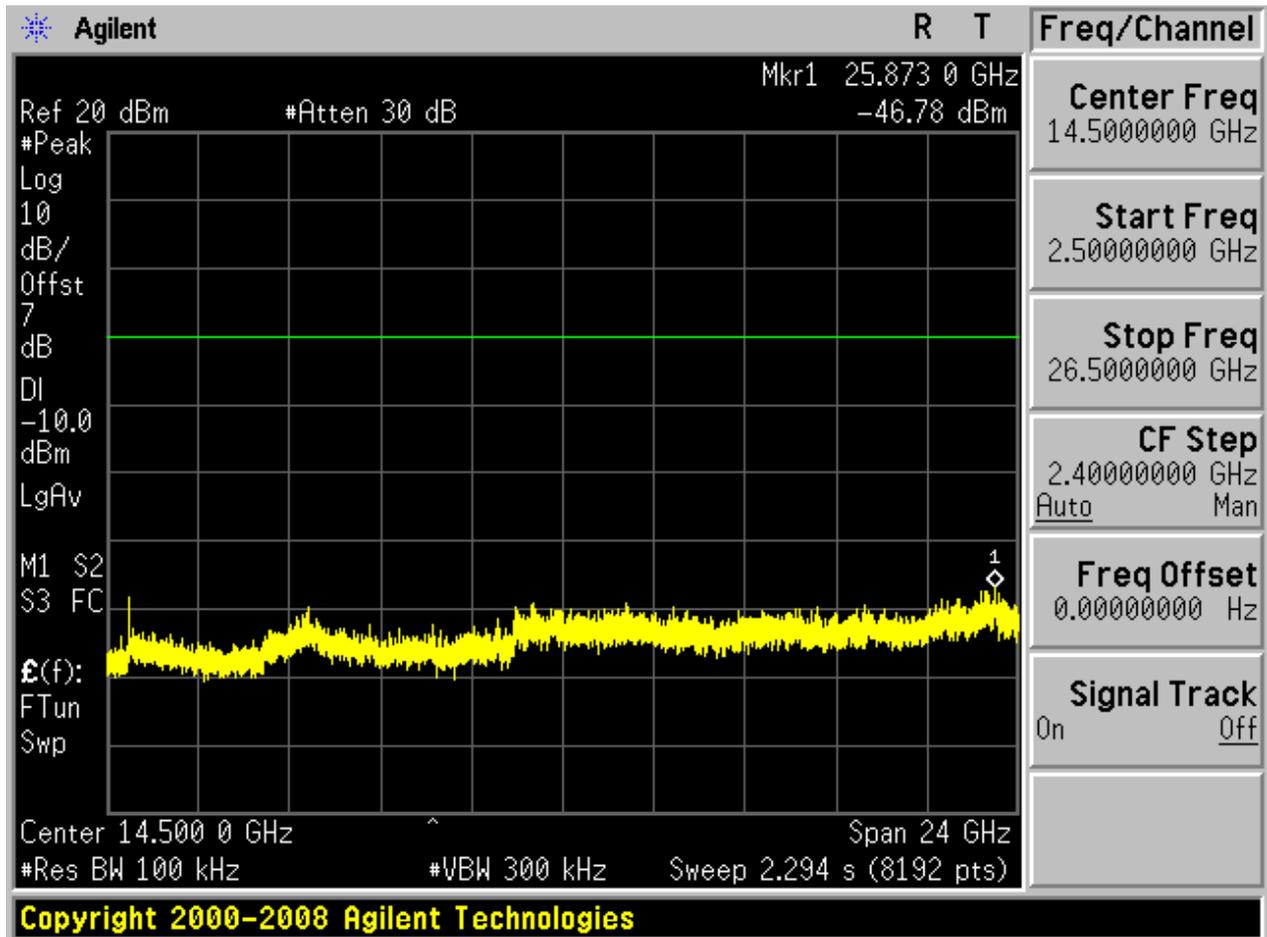






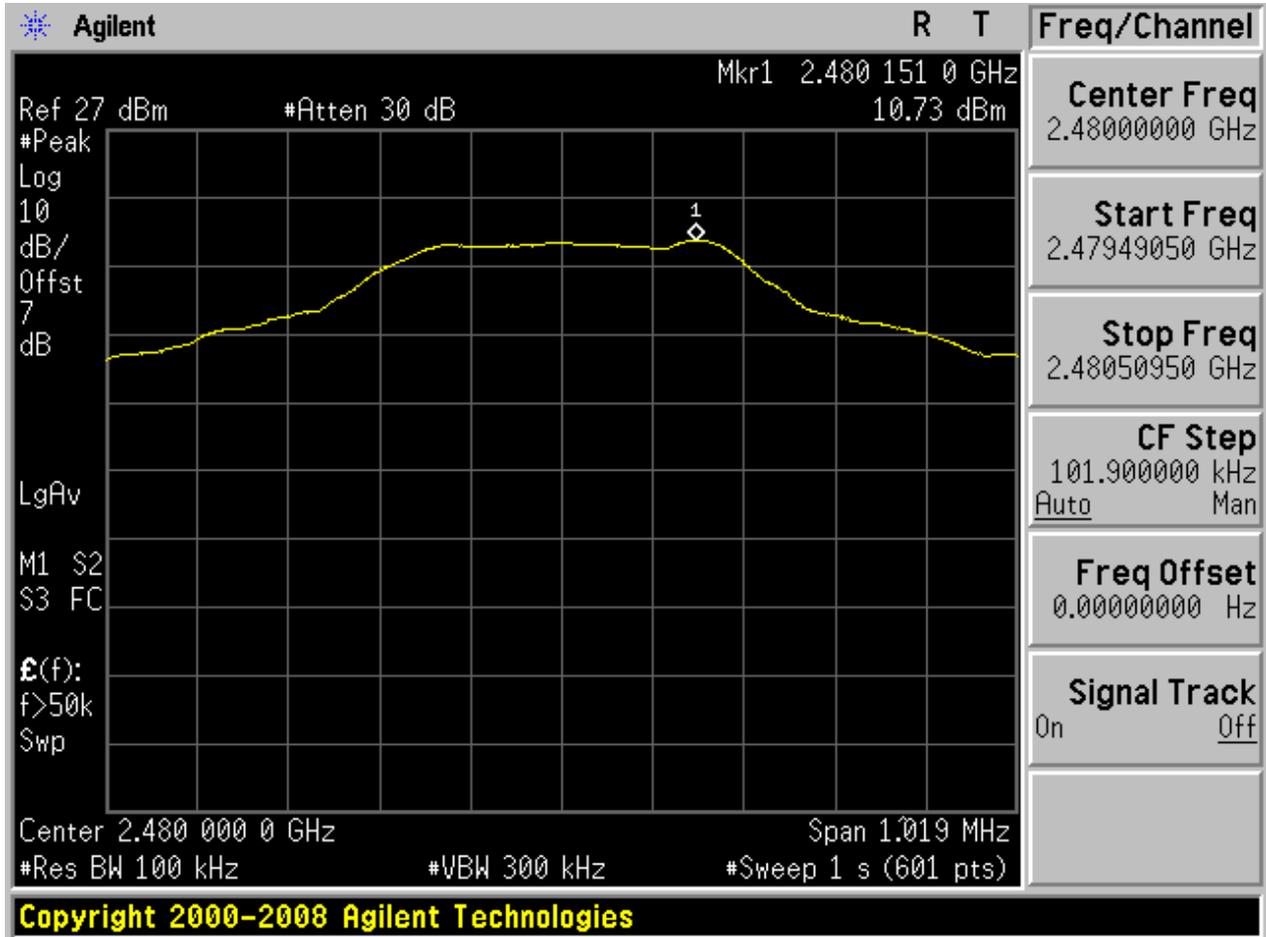






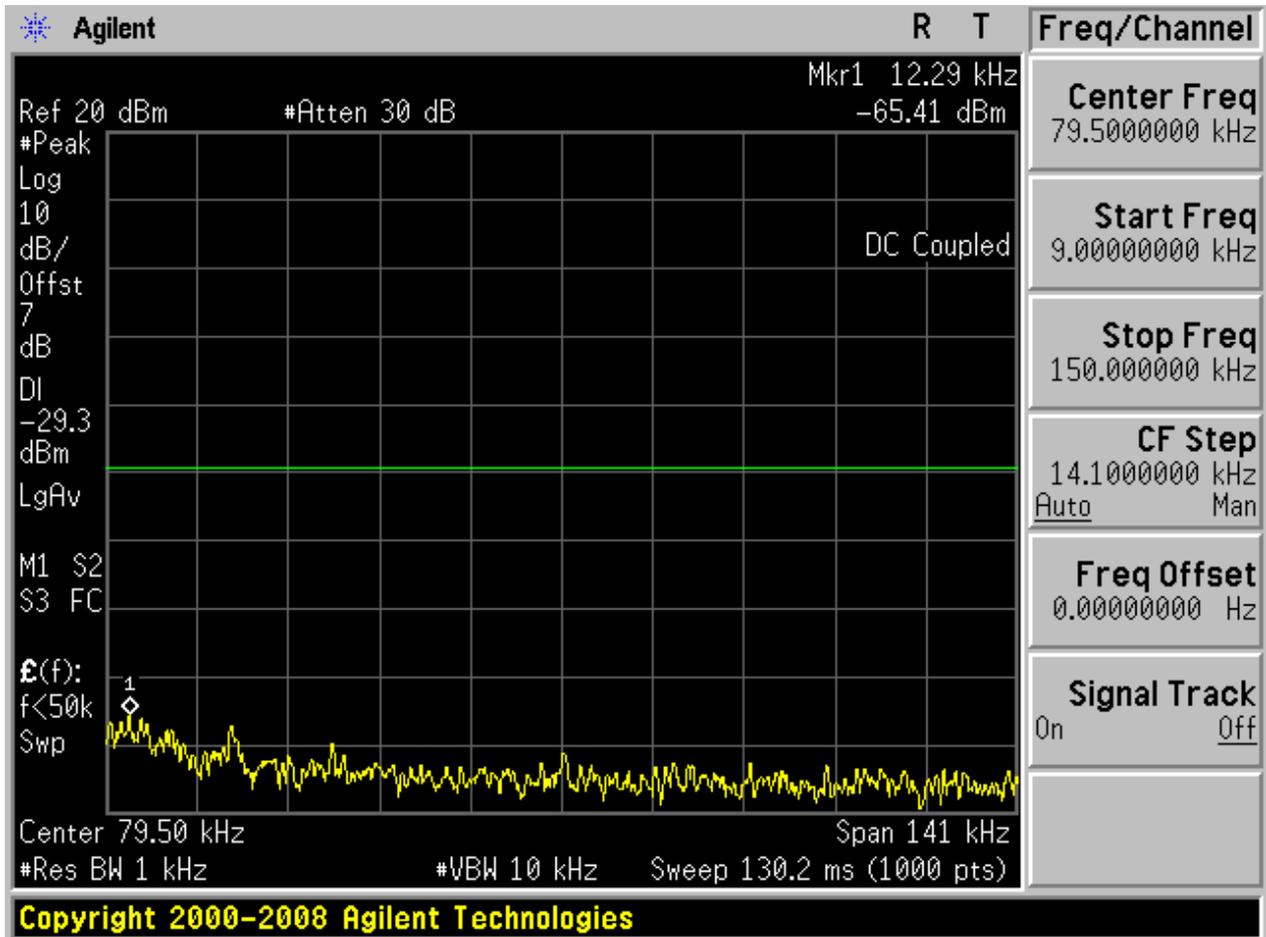
2.3 TM1_DH5_Ch78

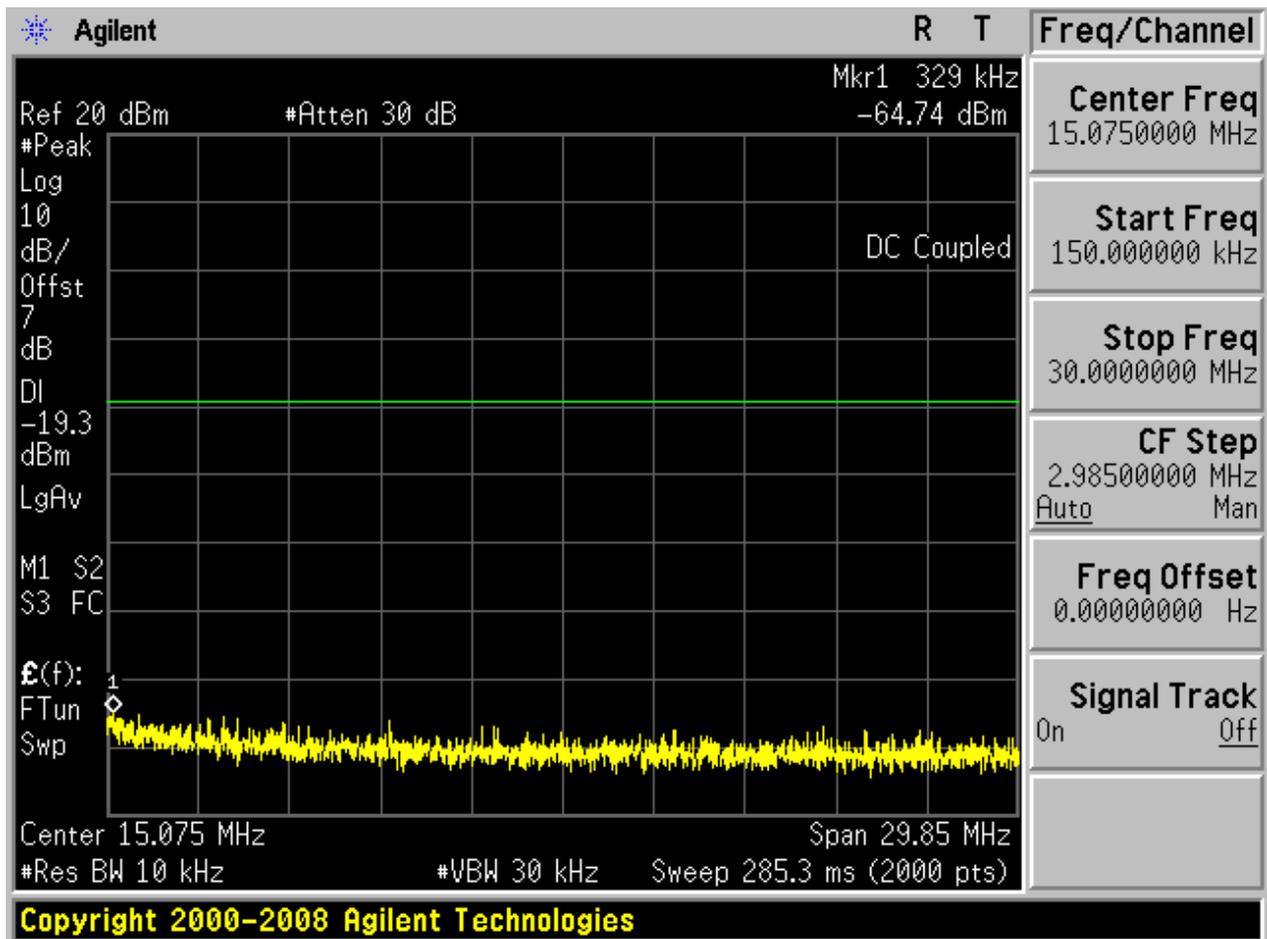
2.3.1 Pref

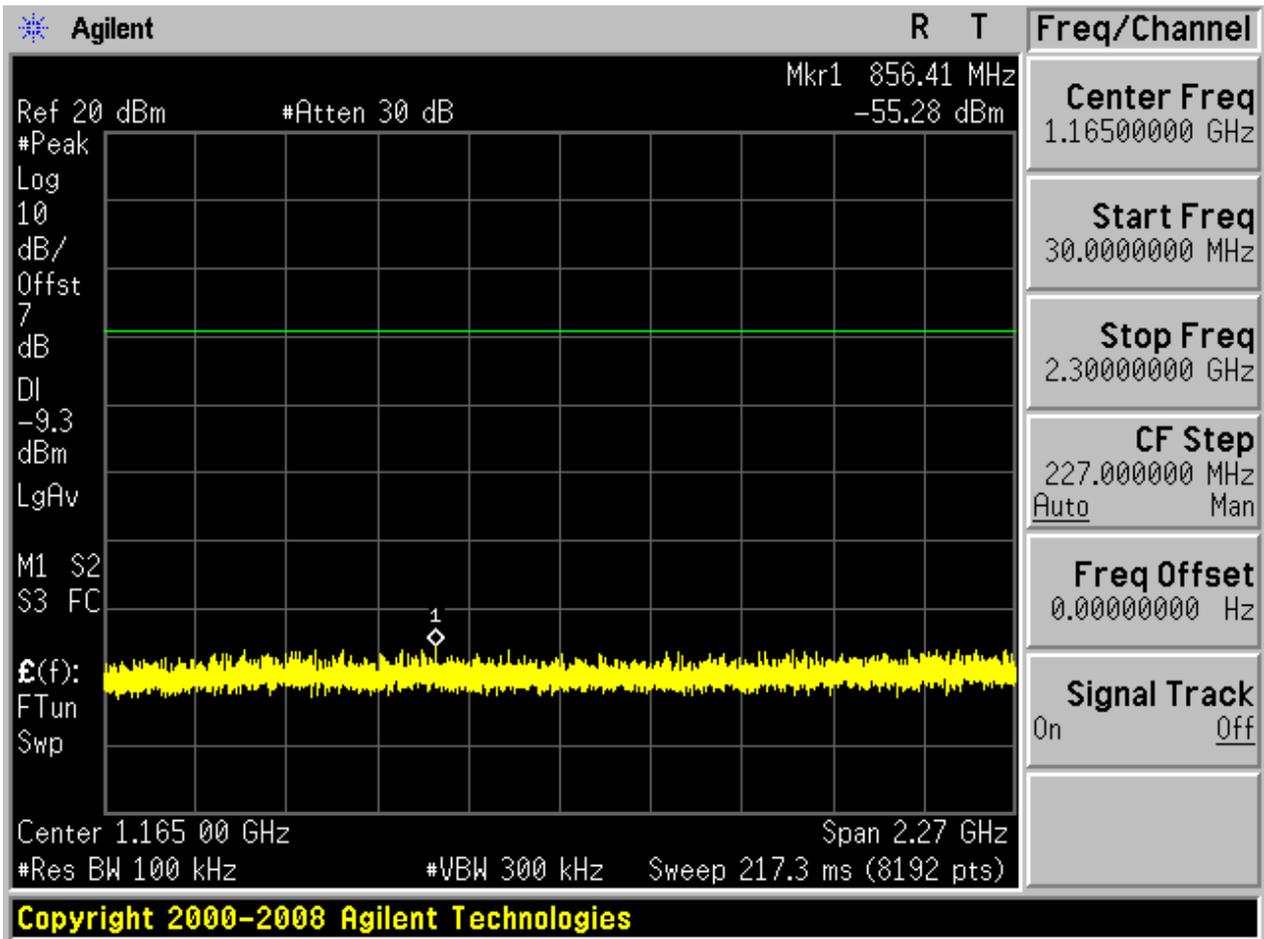


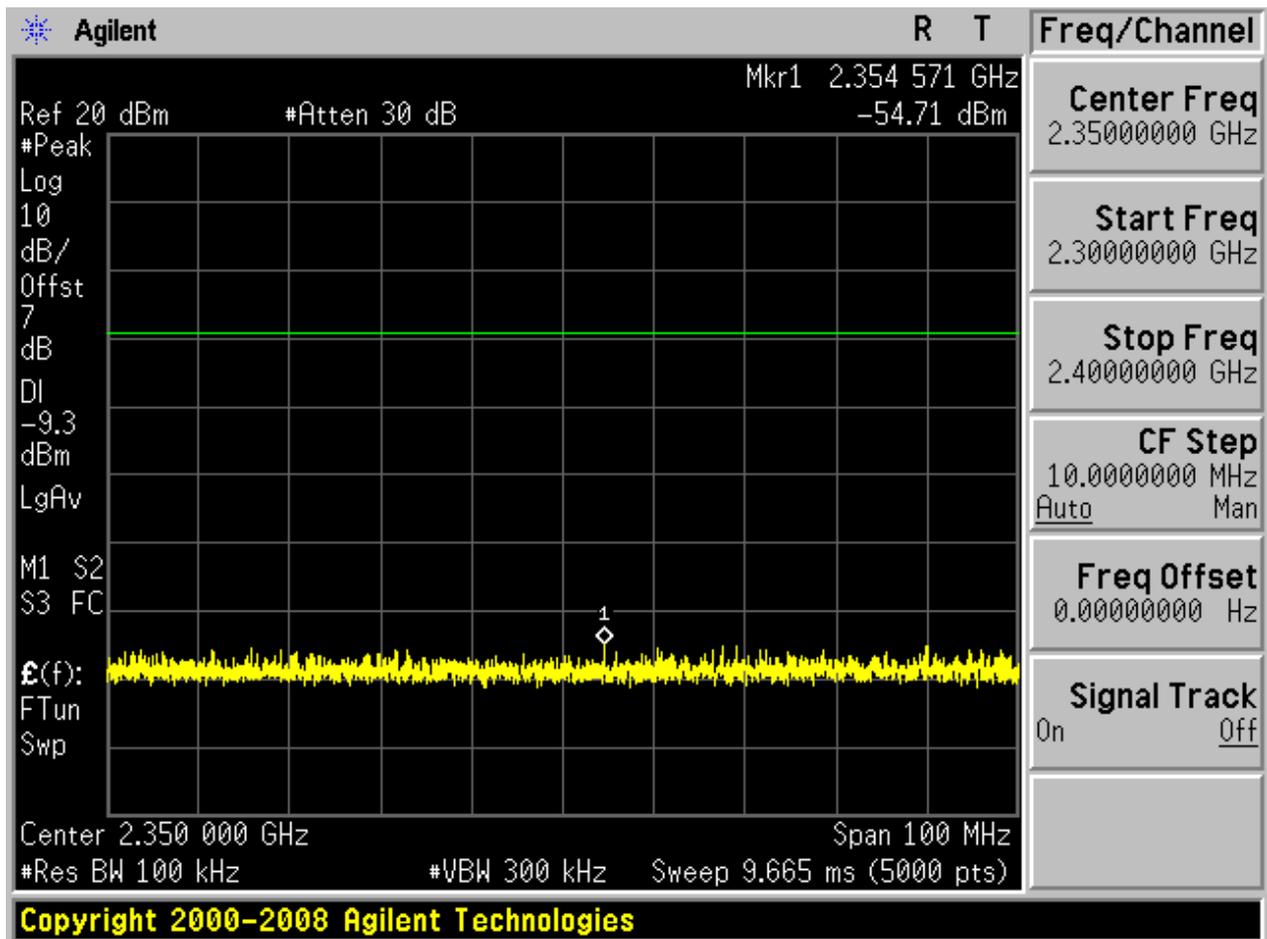


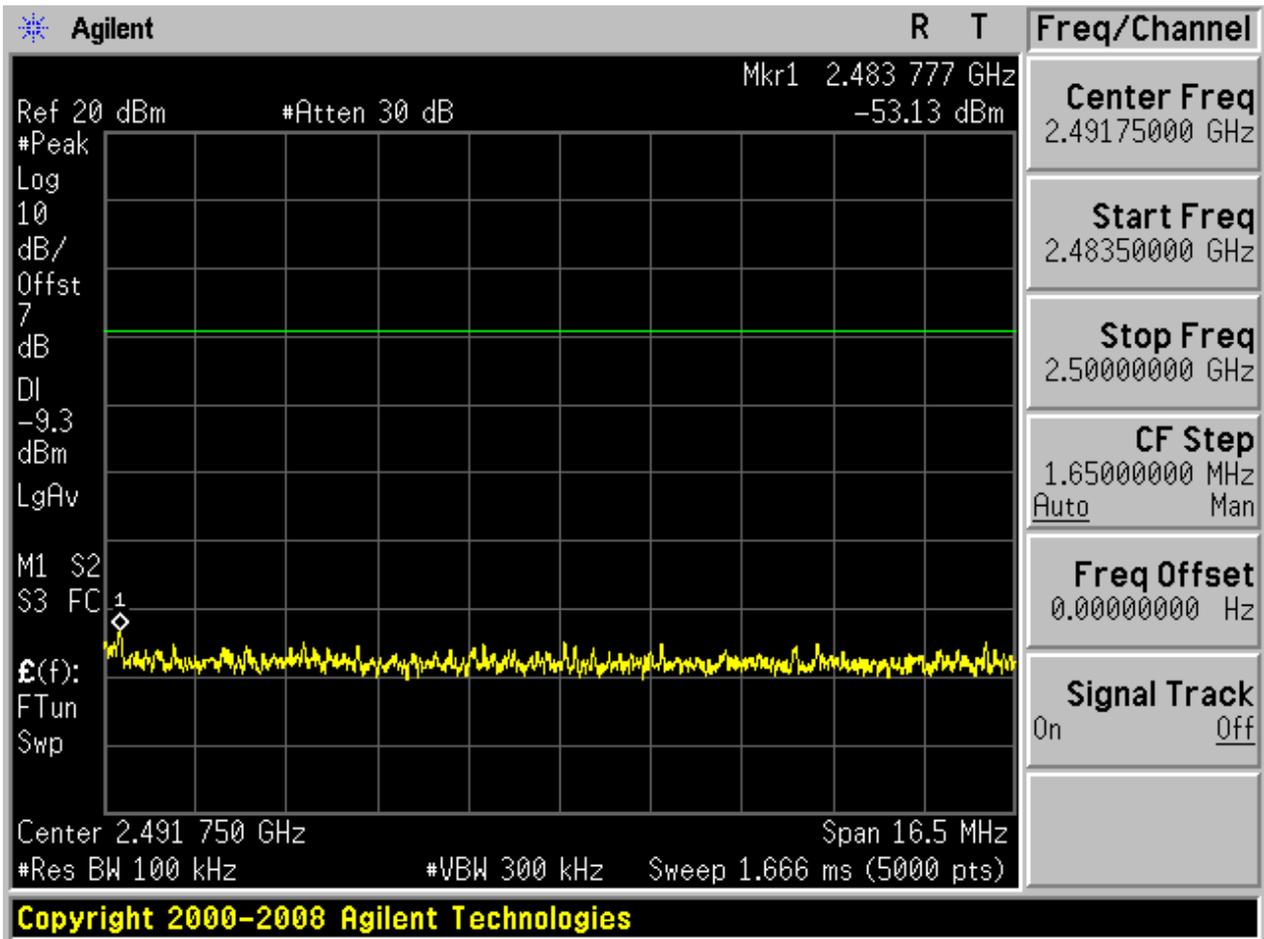
2.3.2 Puw

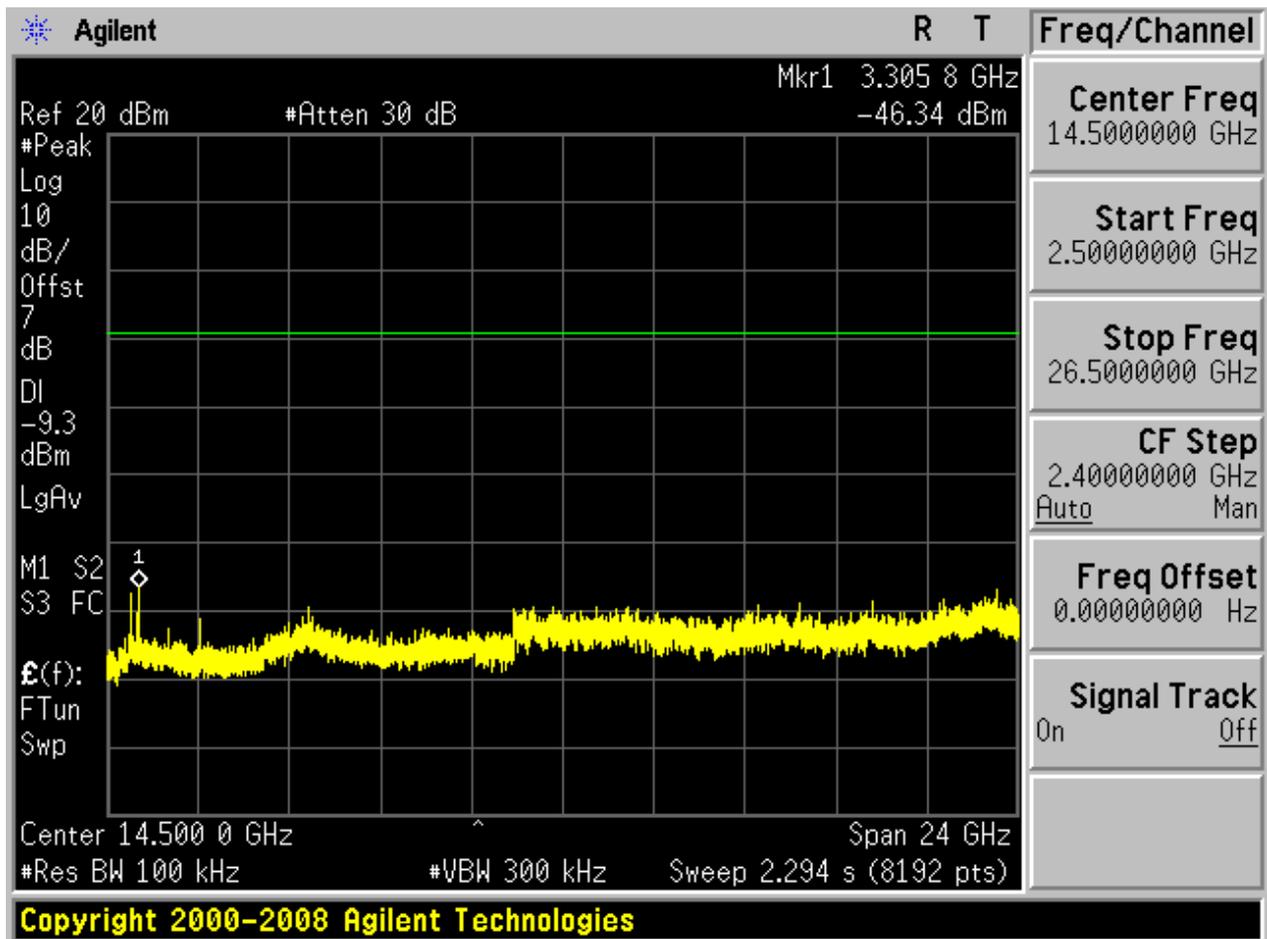








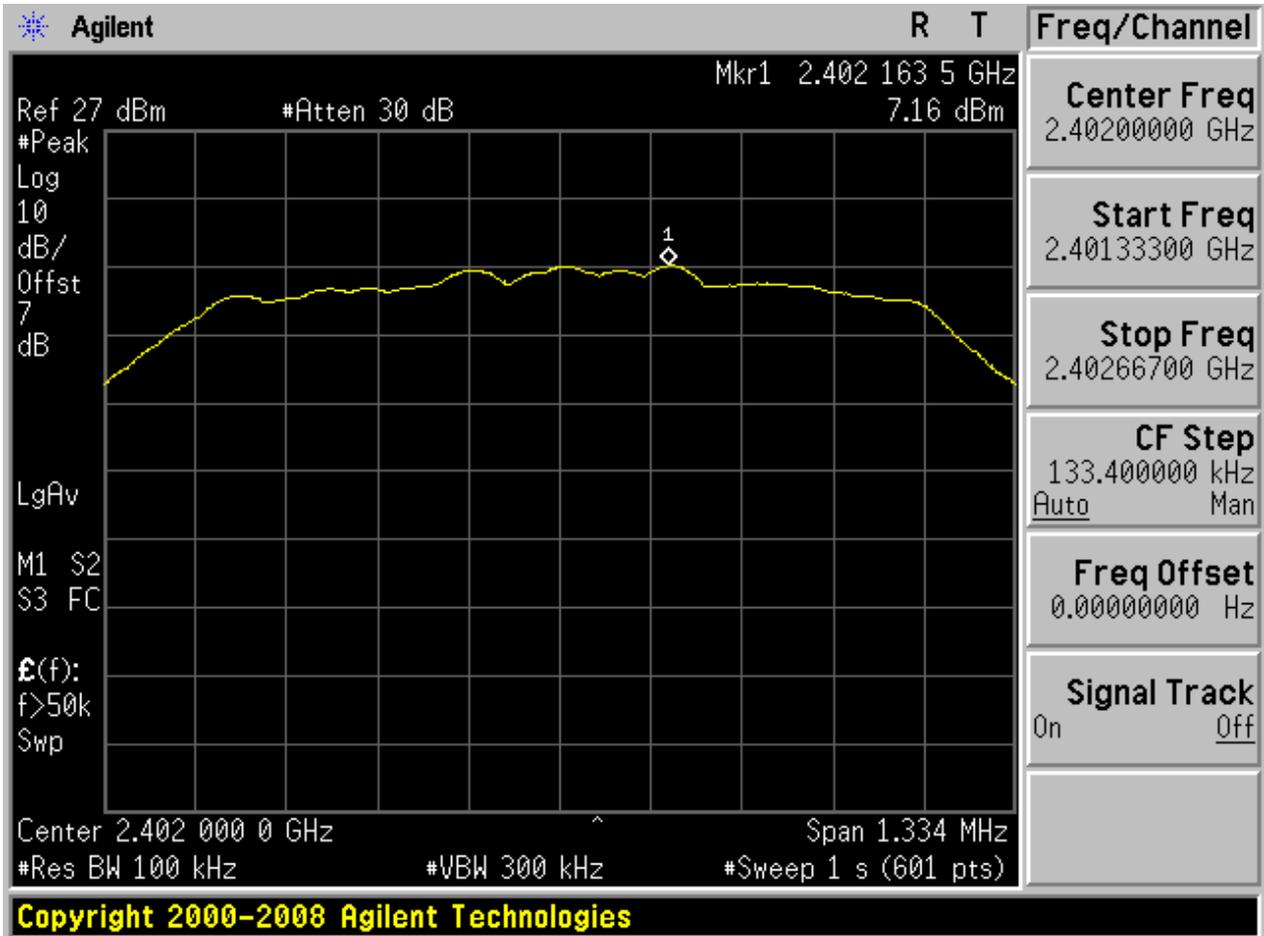




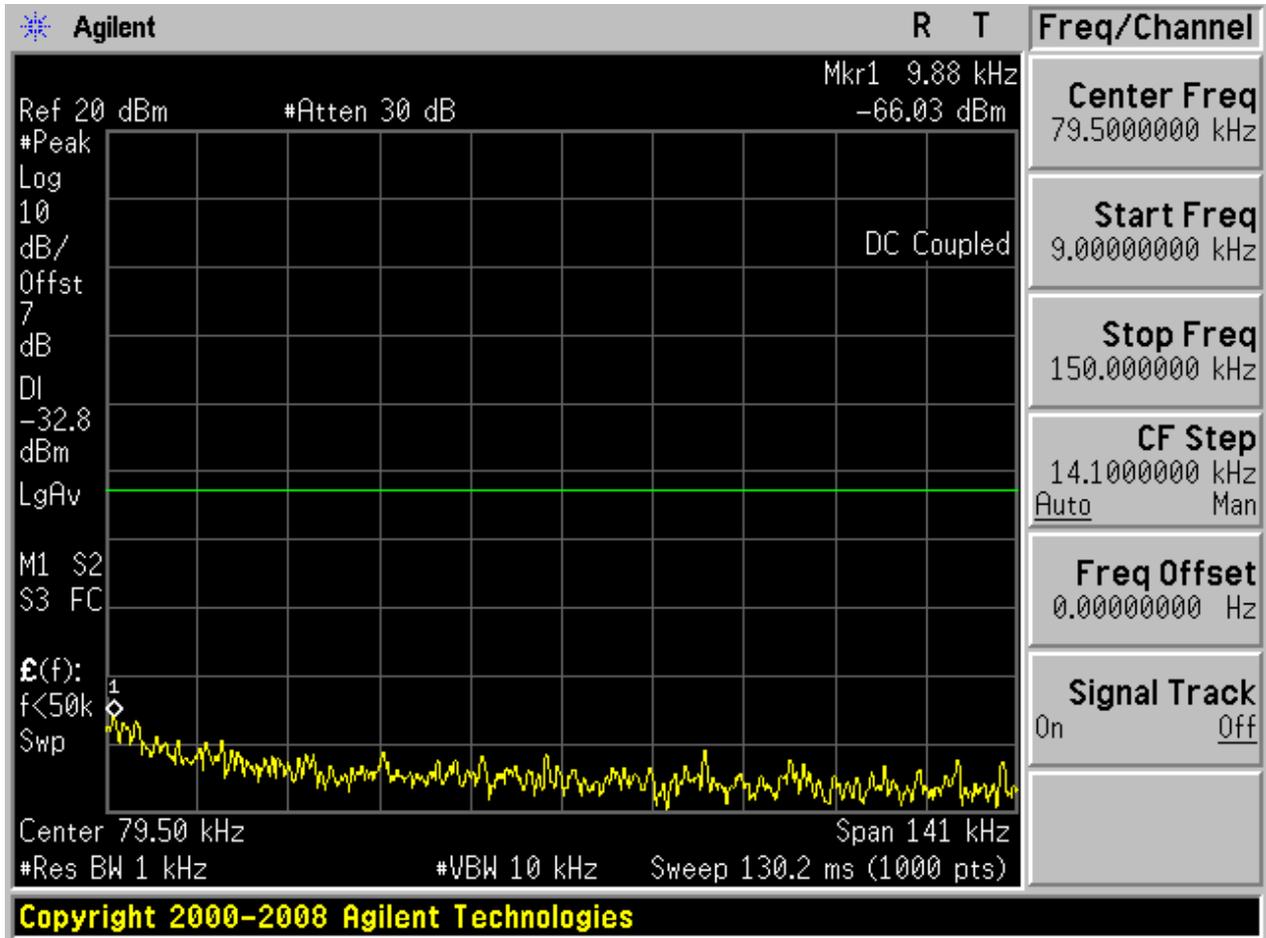


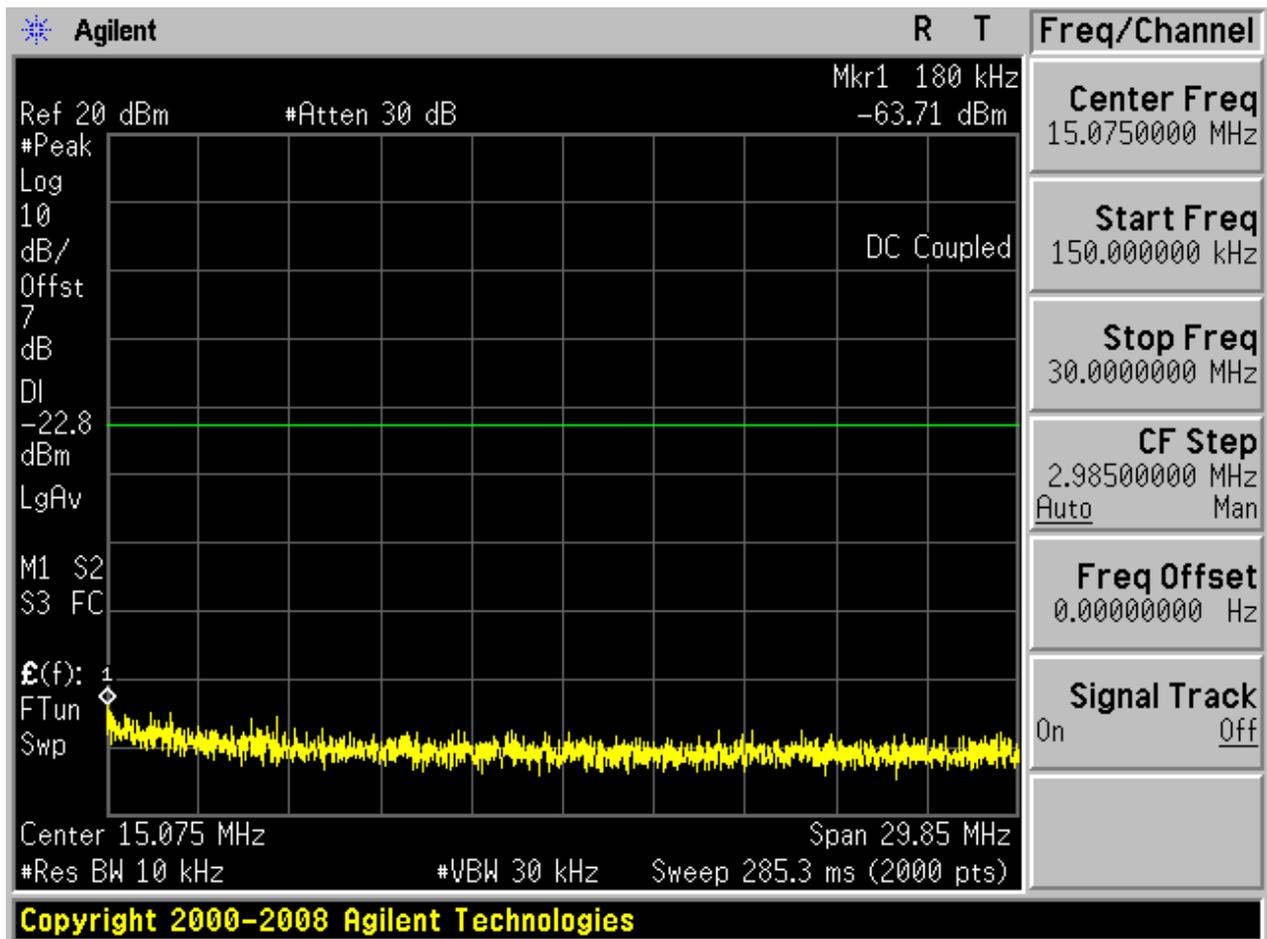
2.4 TM2_2DH5_Ch0

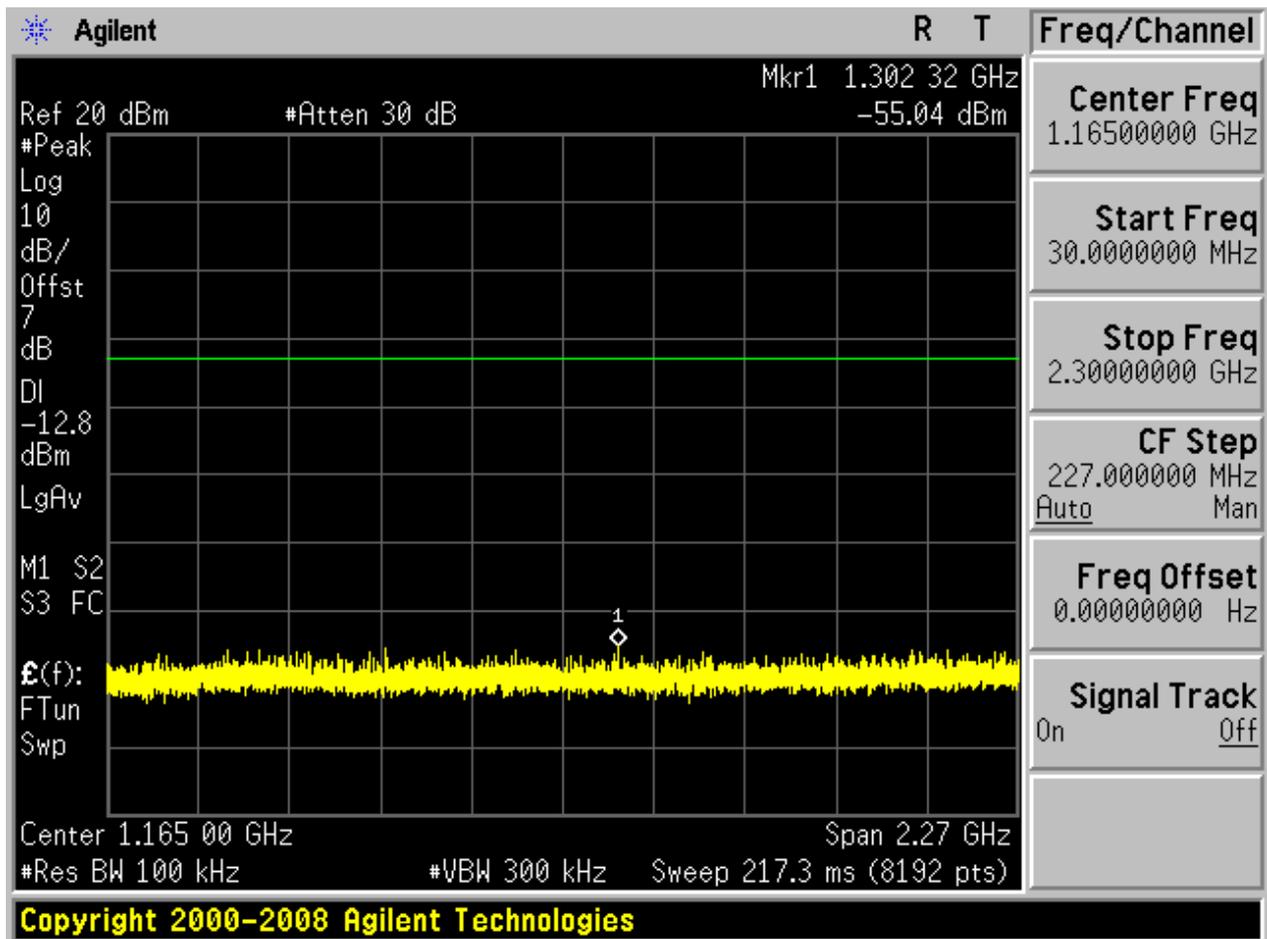
2.4.1 Pref

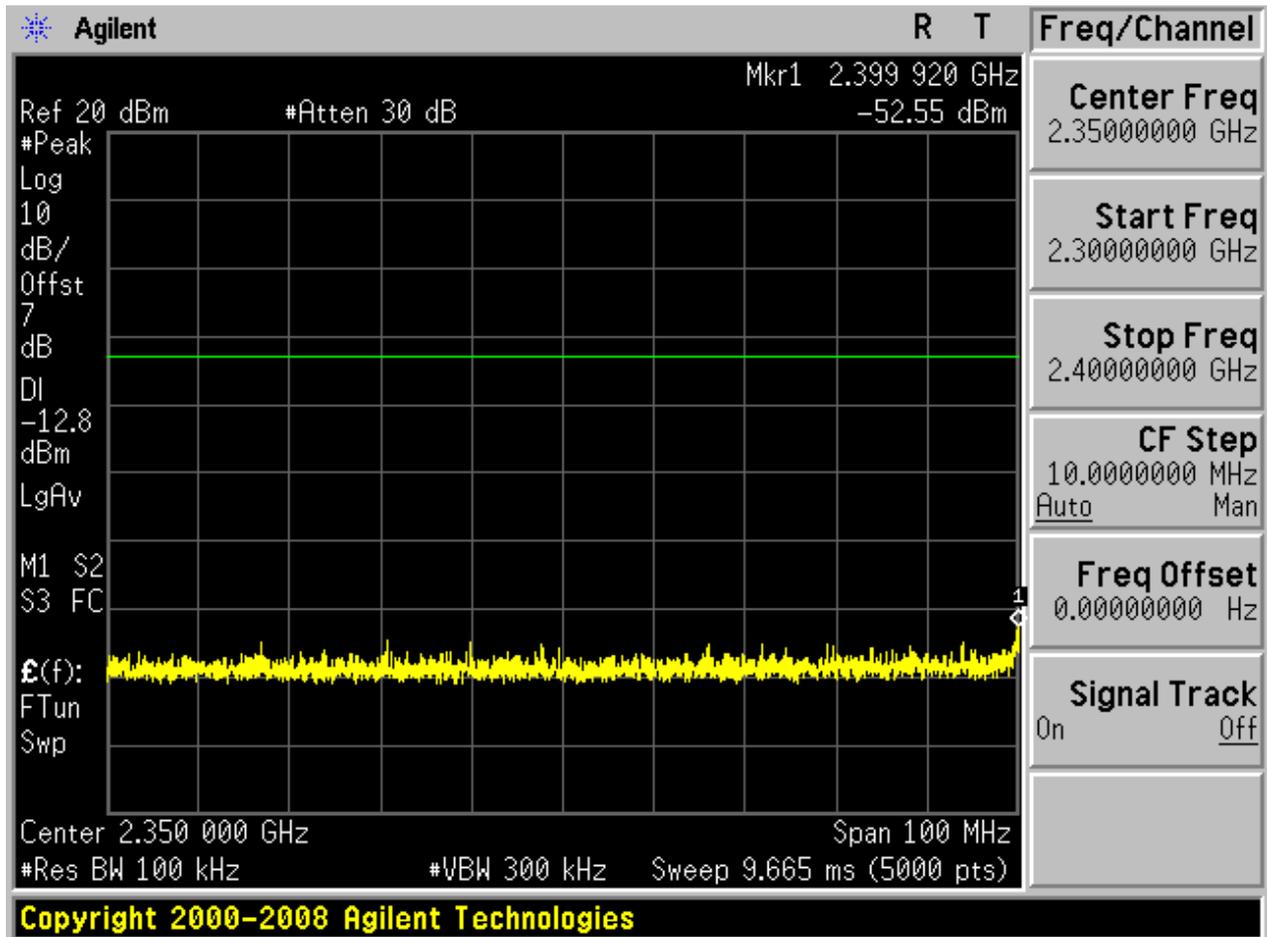


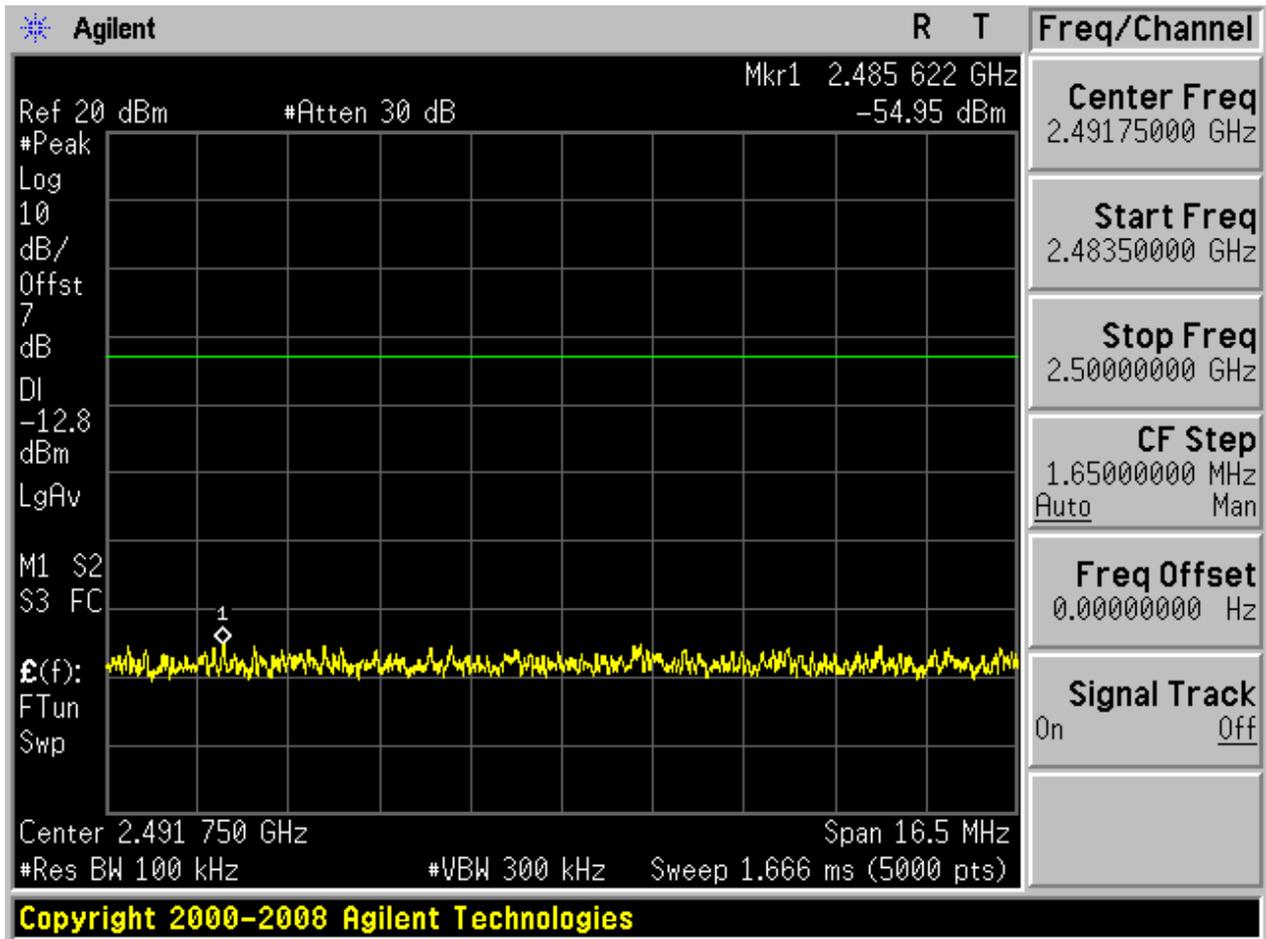
2.4.2 Puw

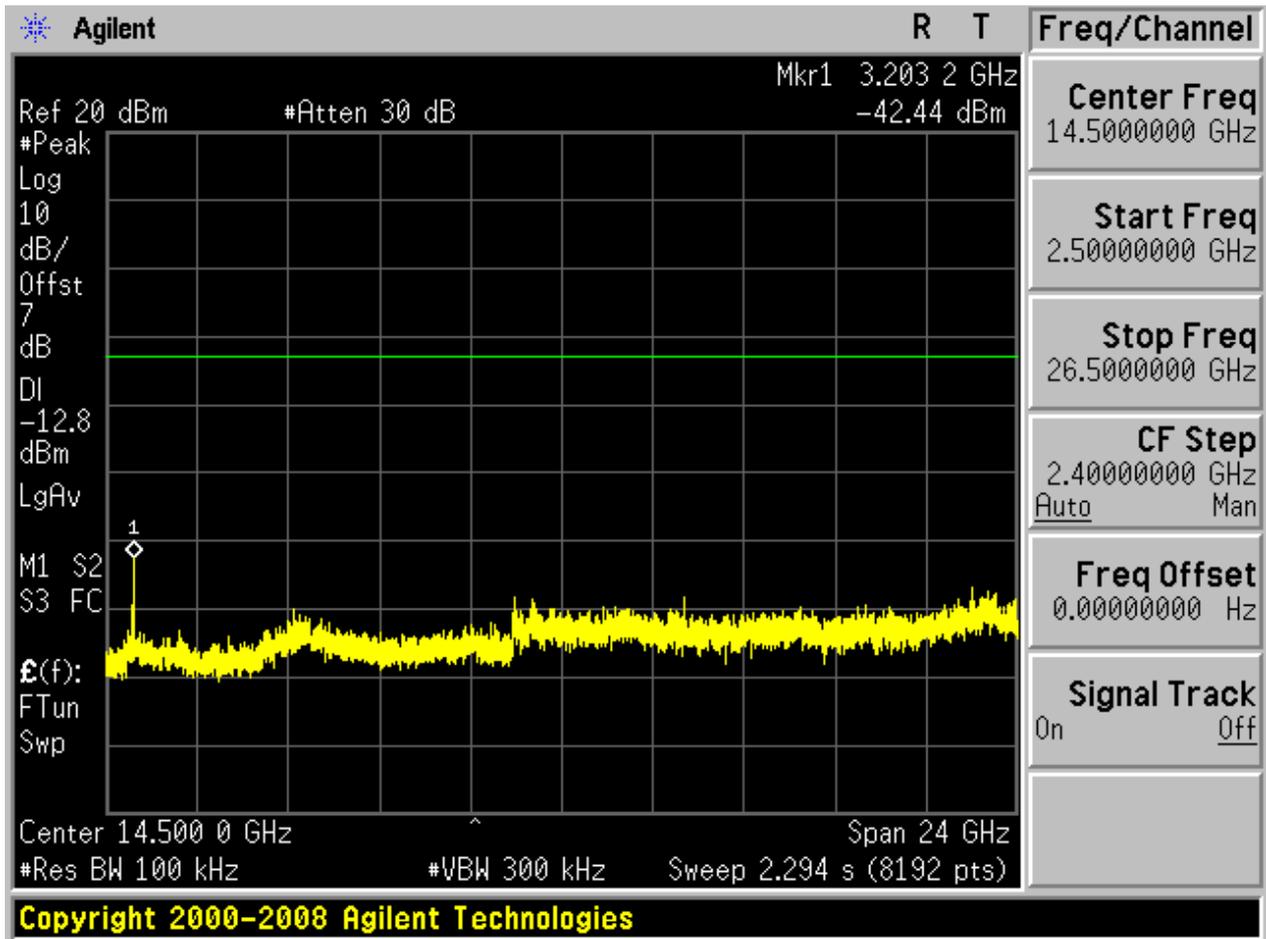








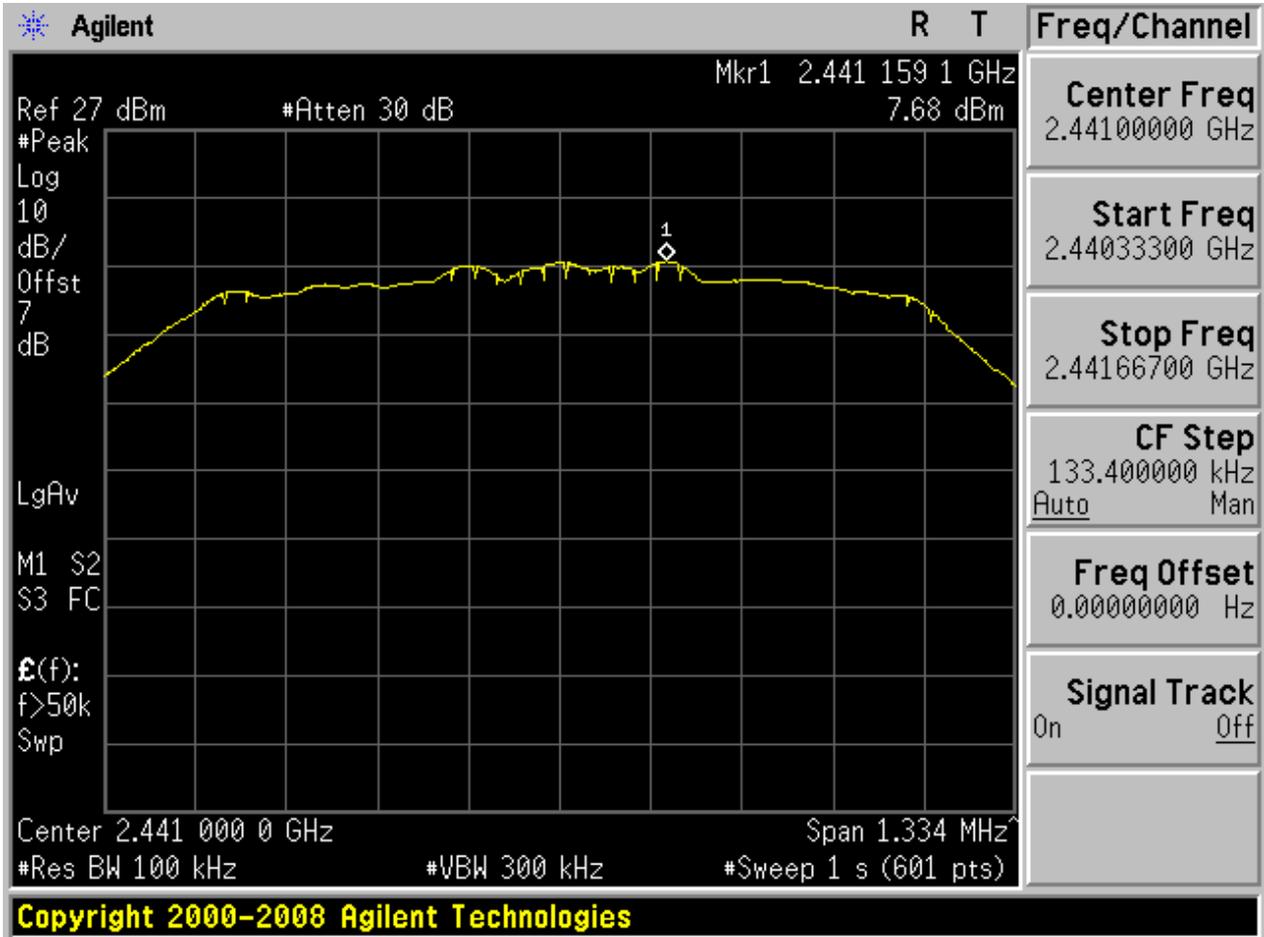






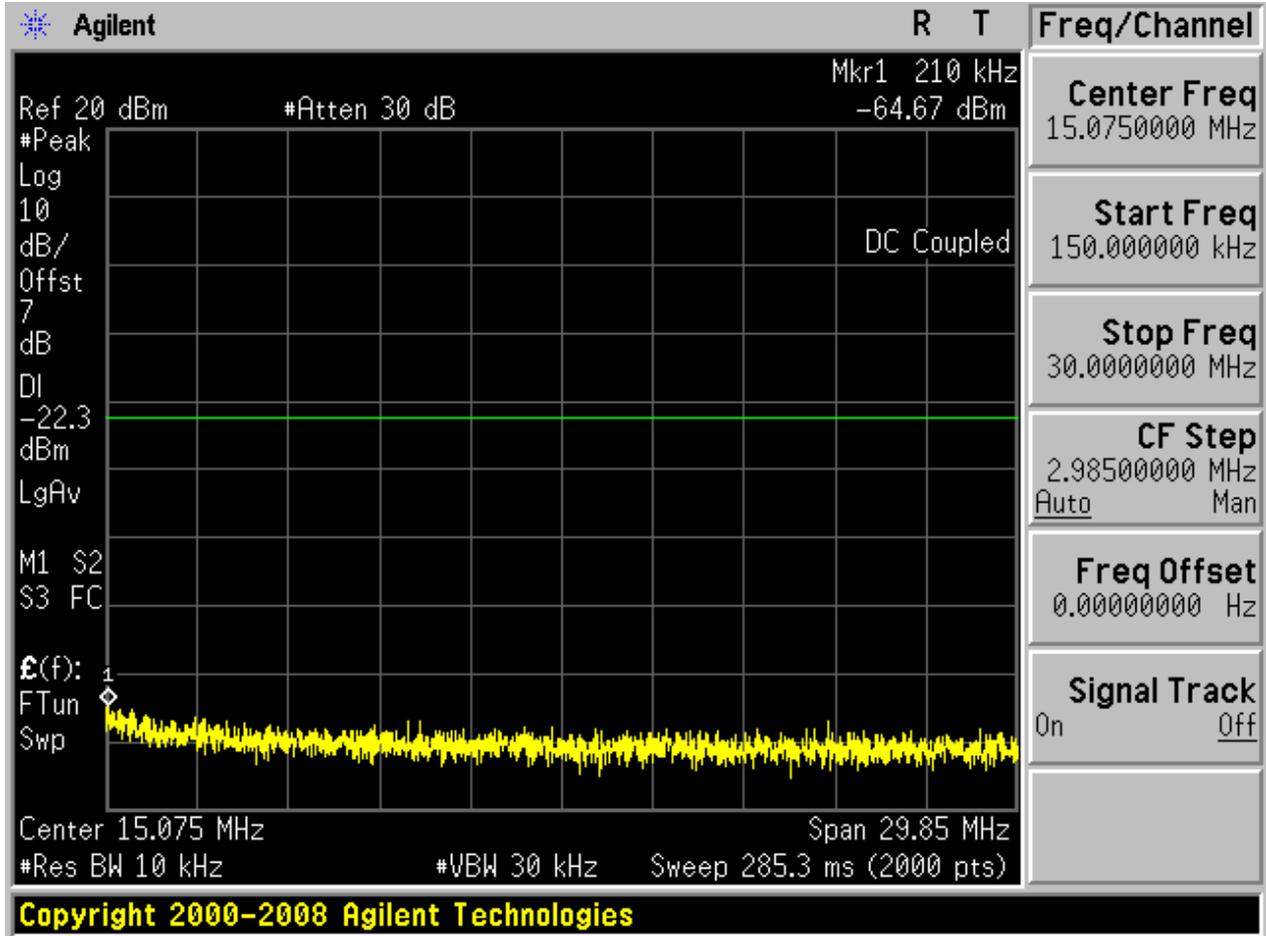
2.5 TM2_2DH5_Ch39

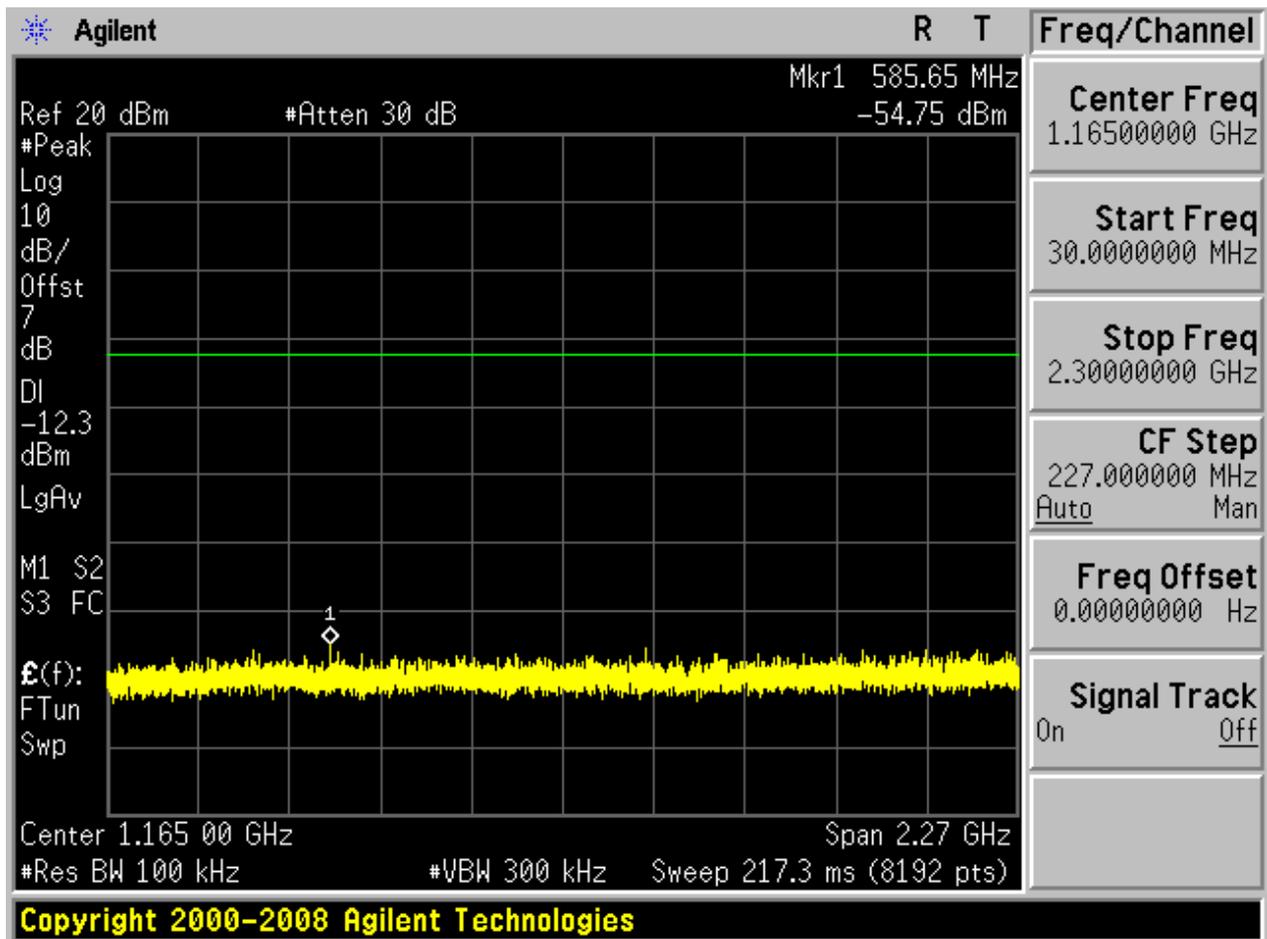
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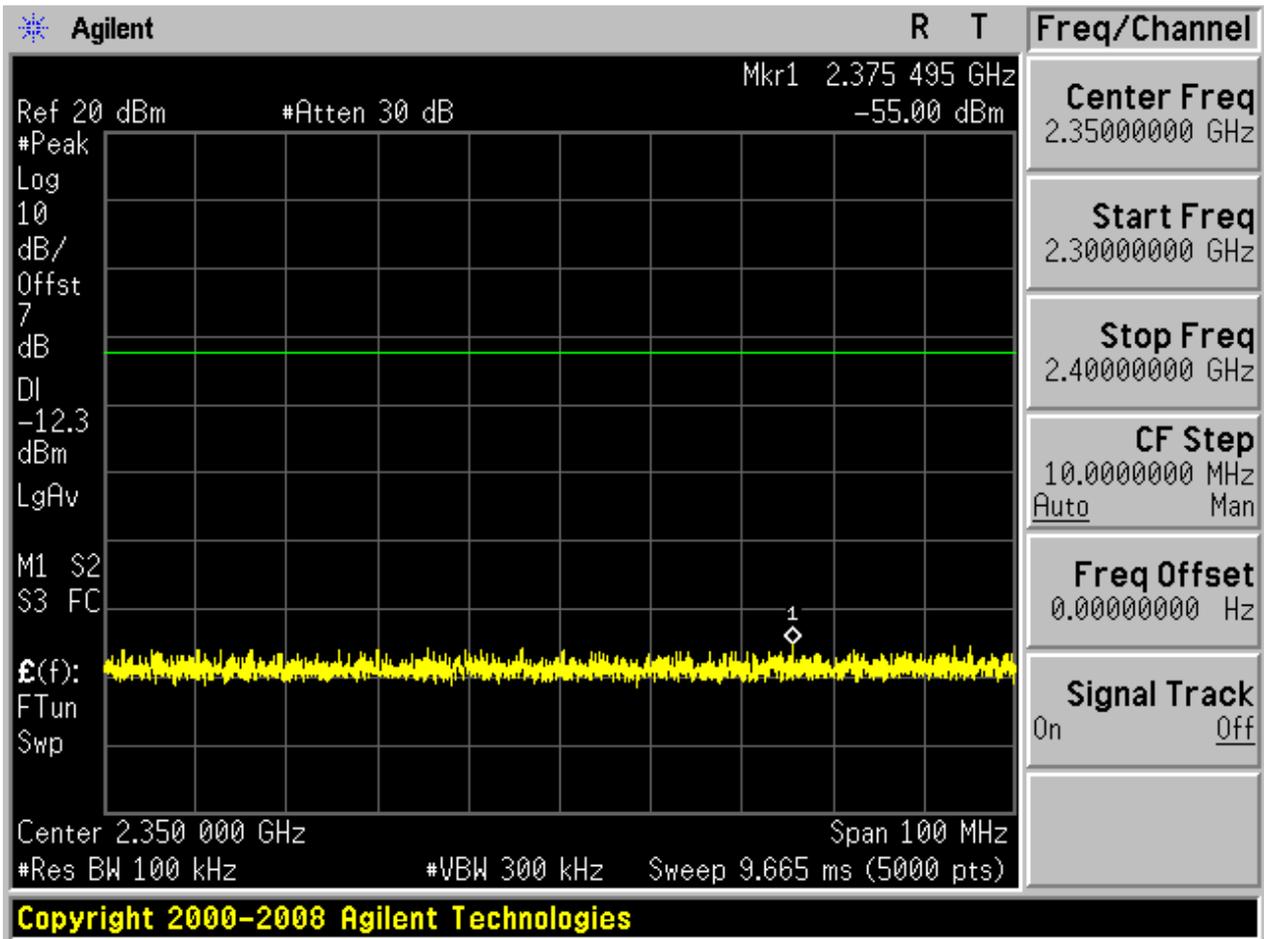


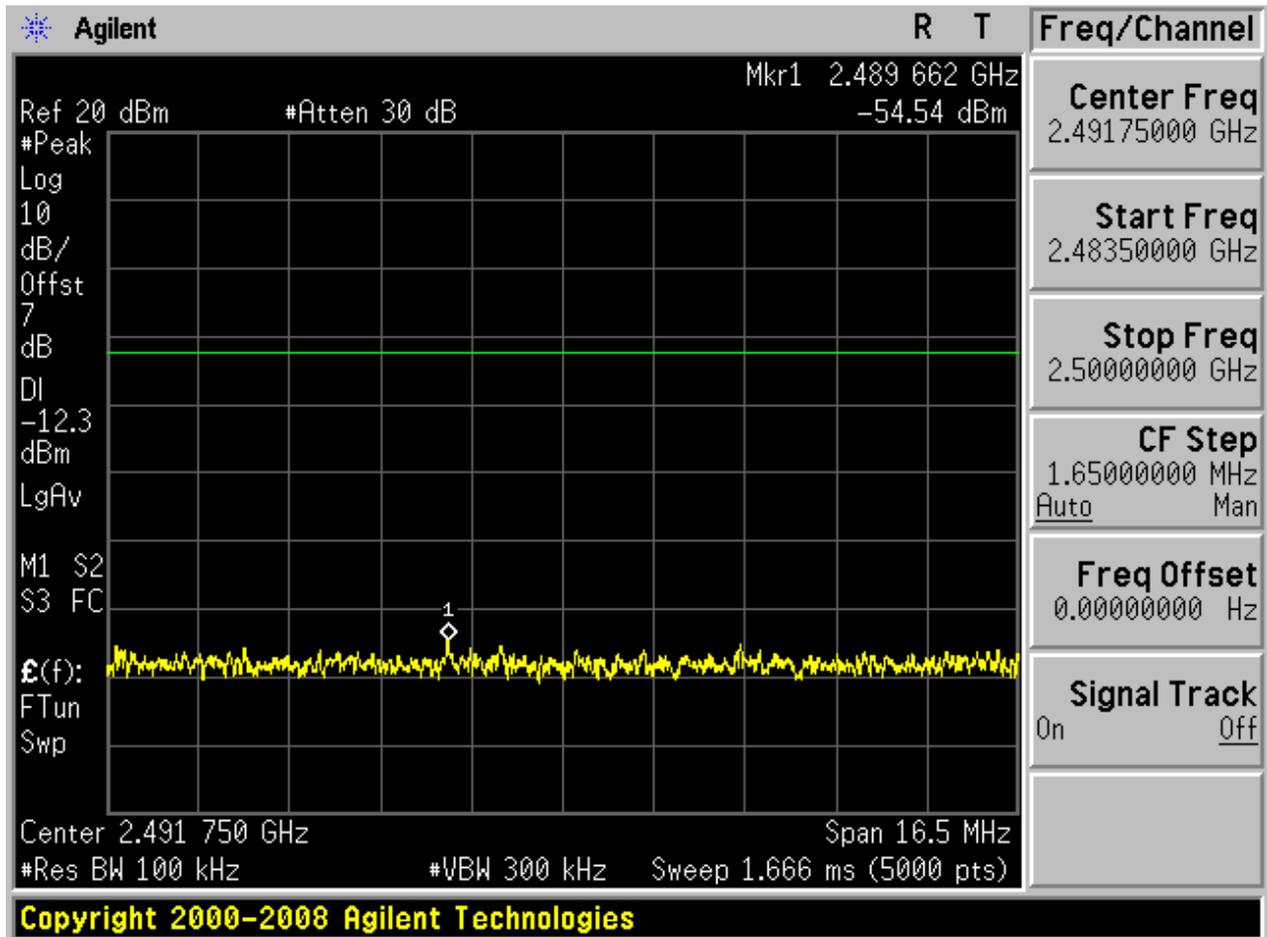


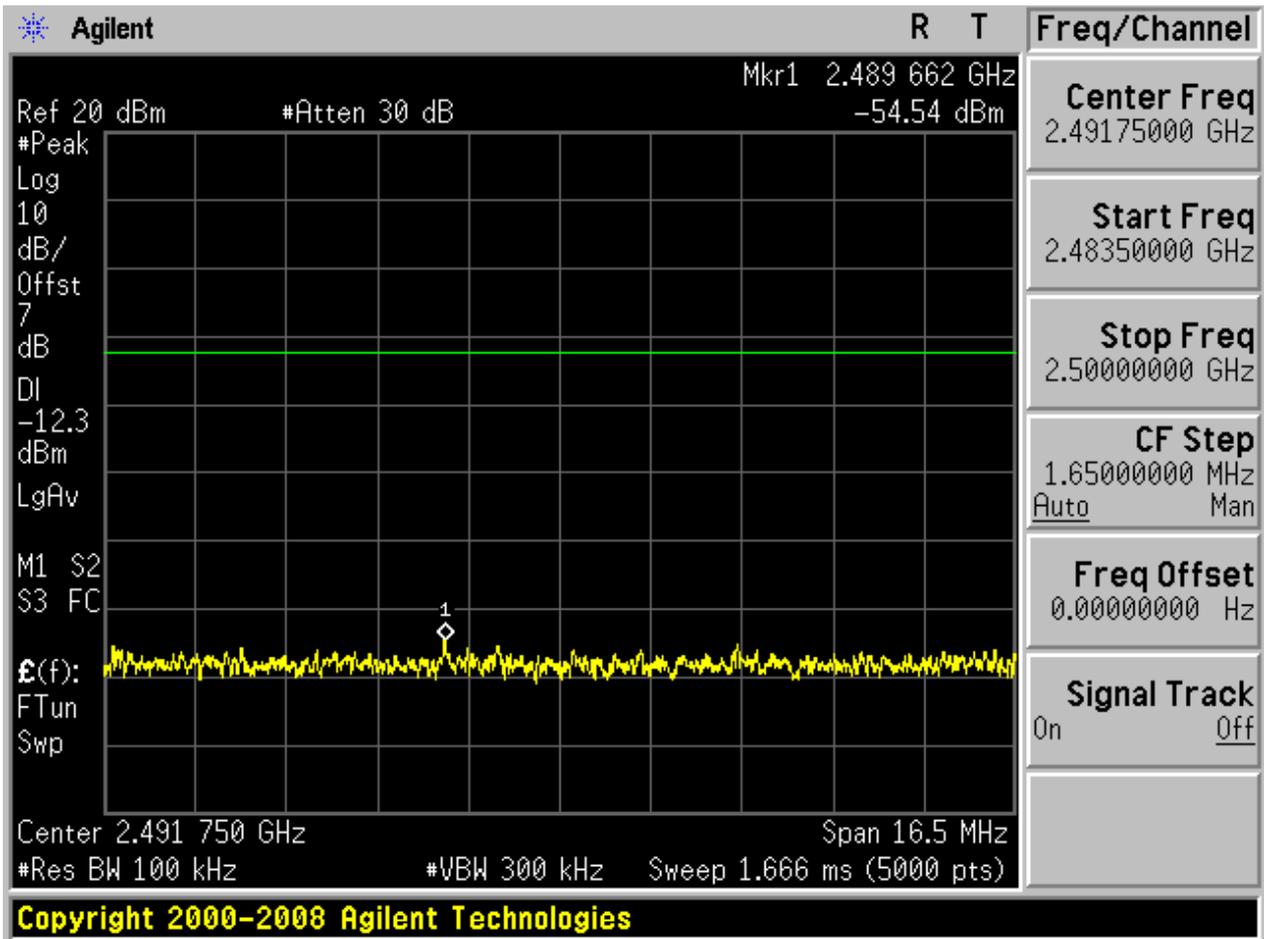
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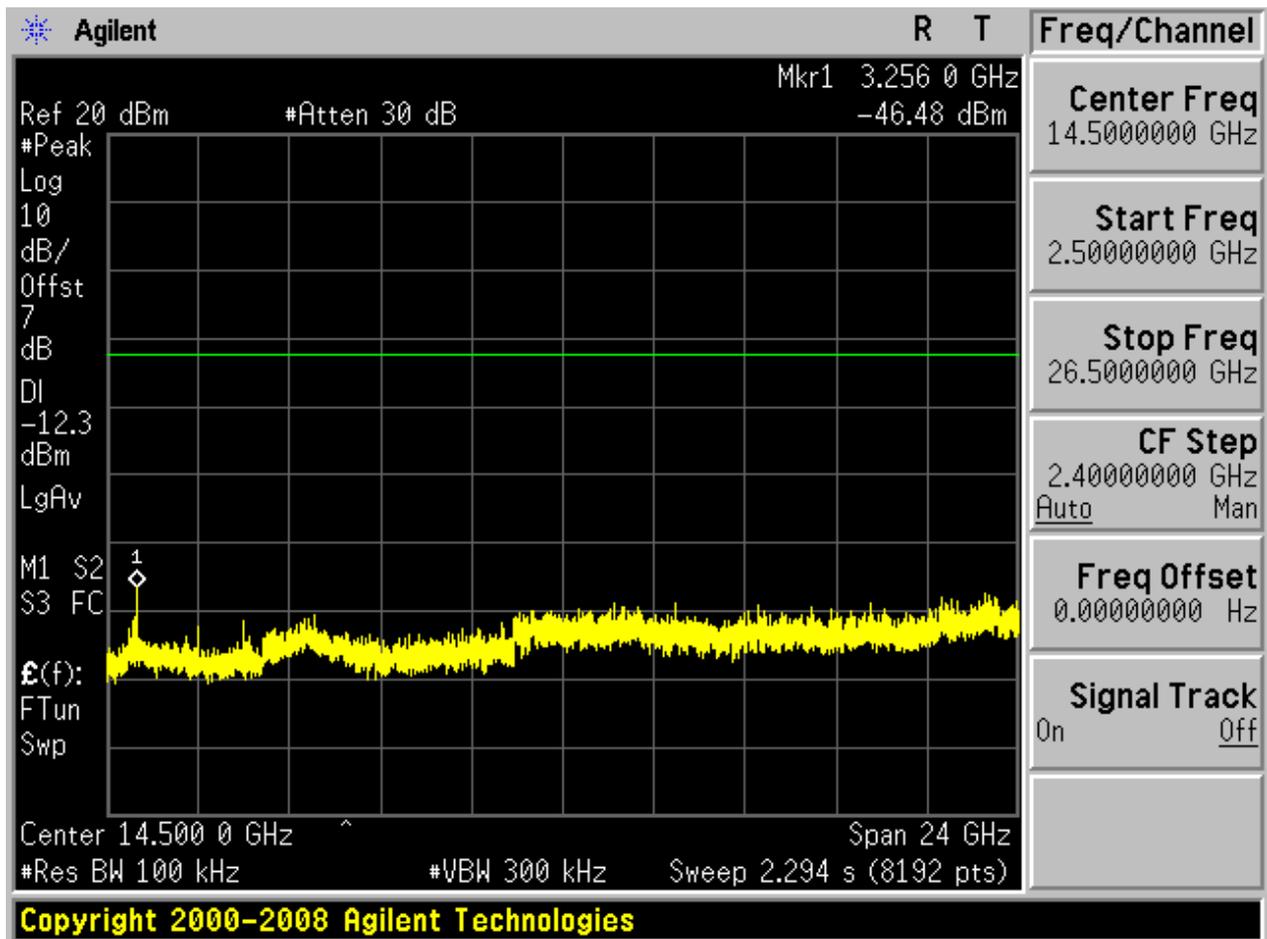






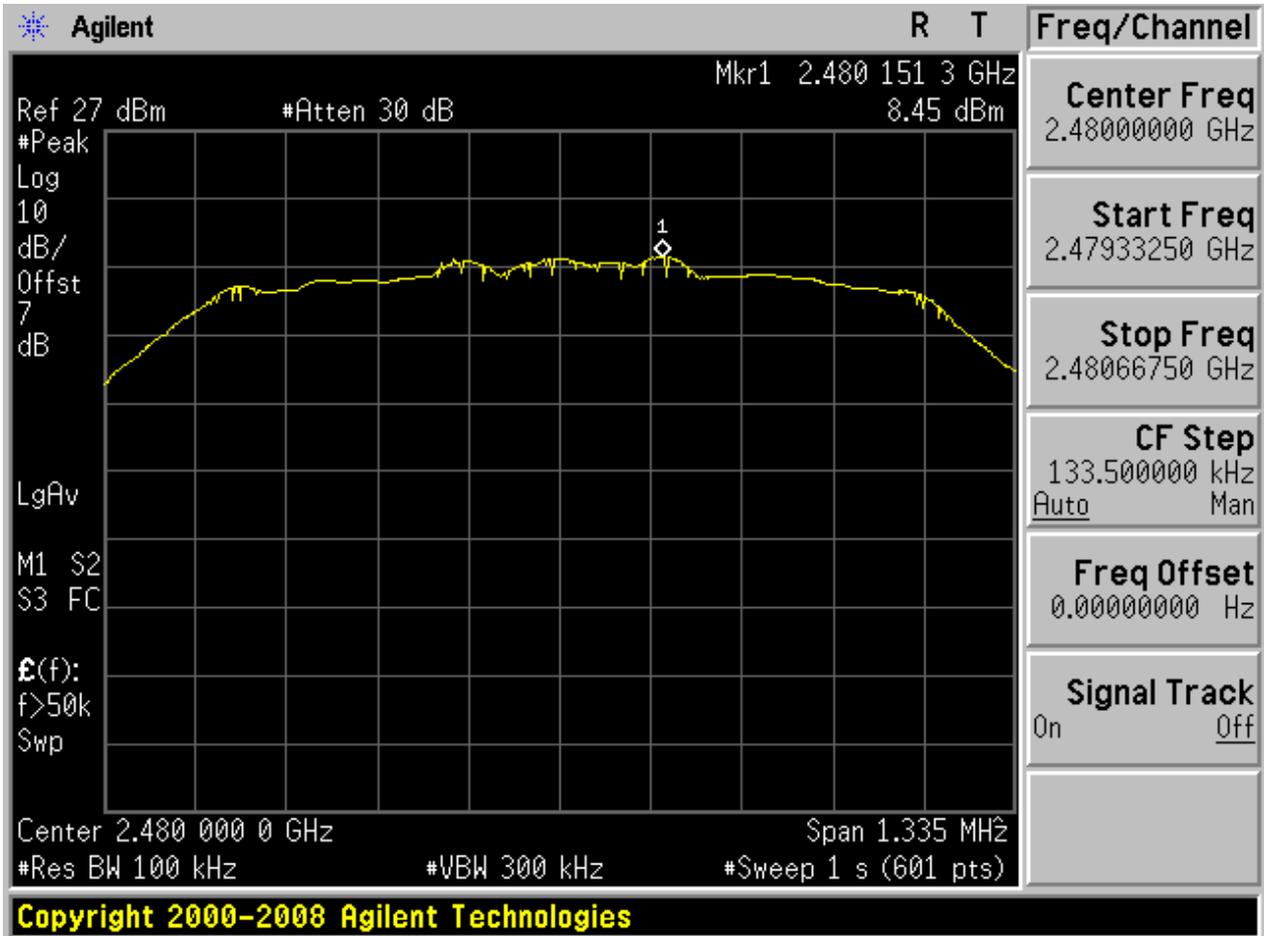






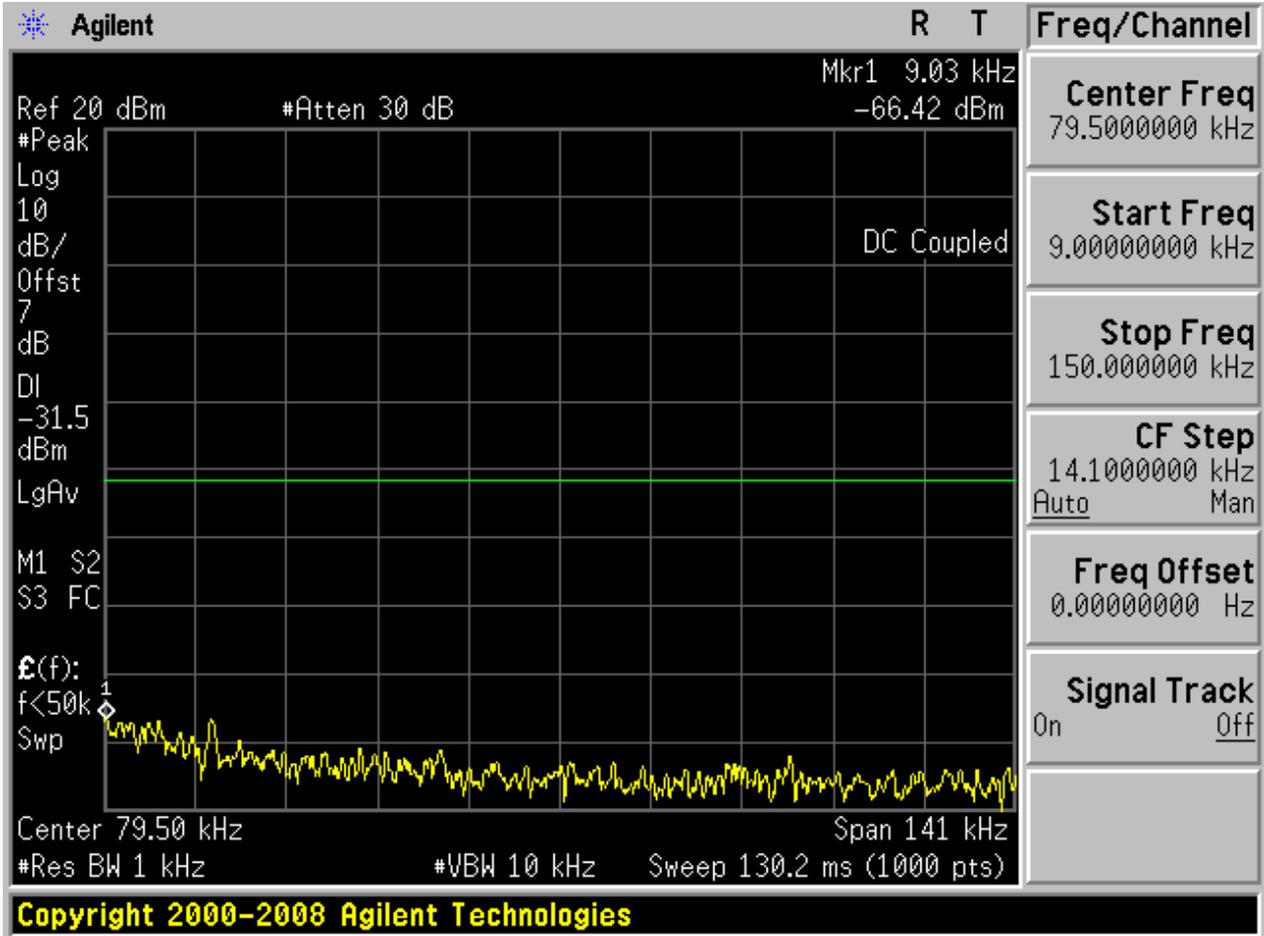
2.6 TM2_2DH5_Ch78

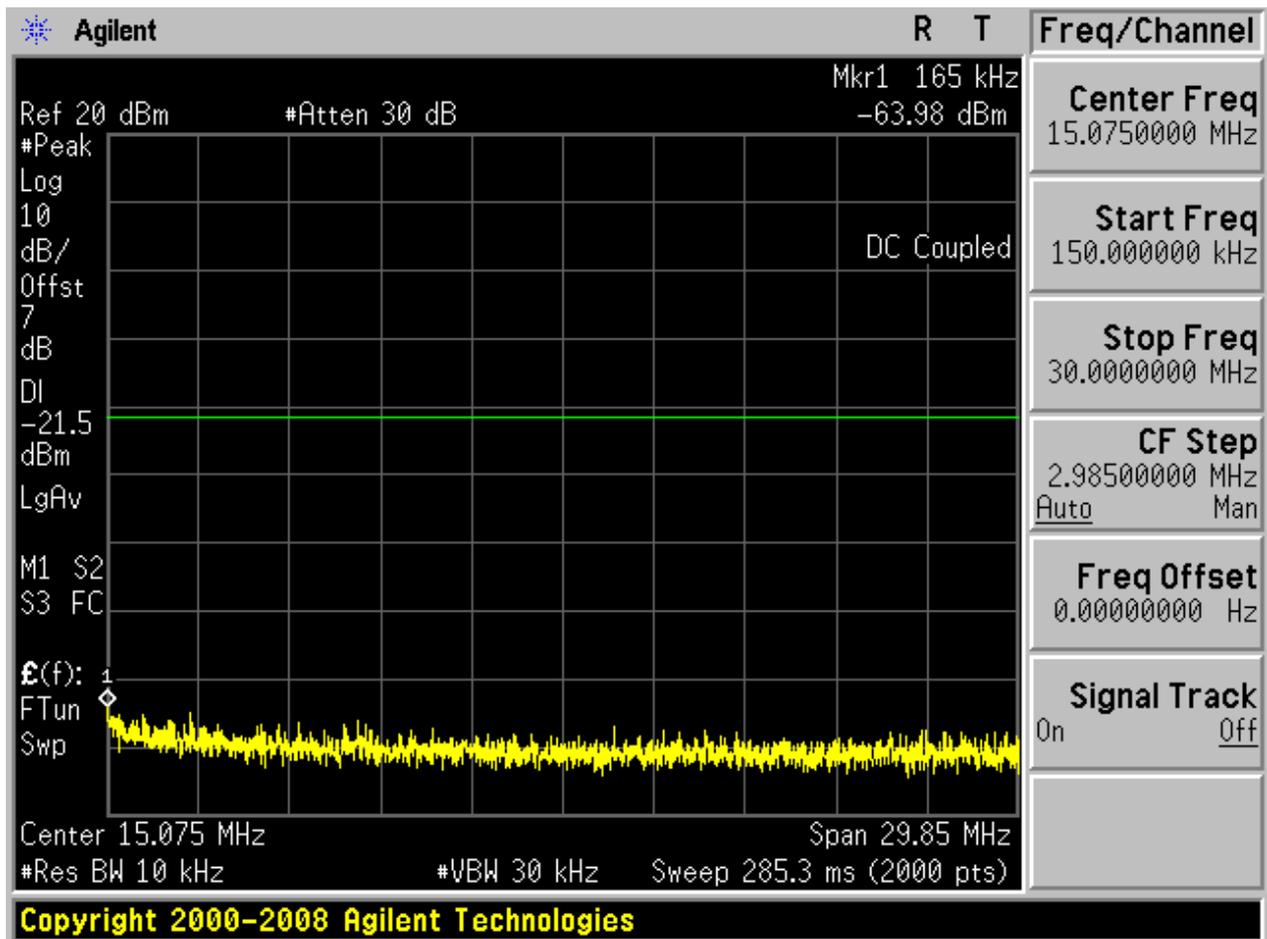
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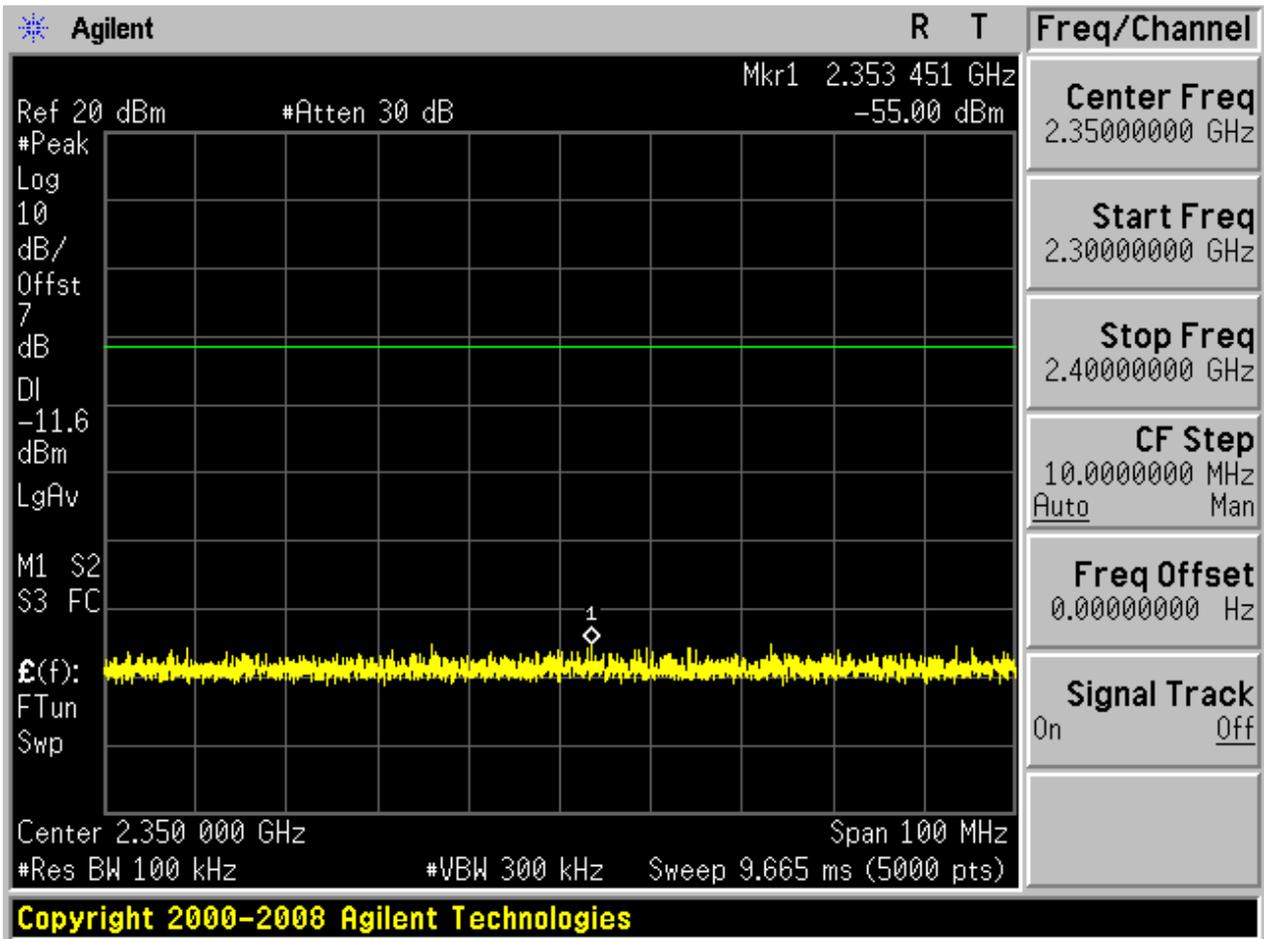


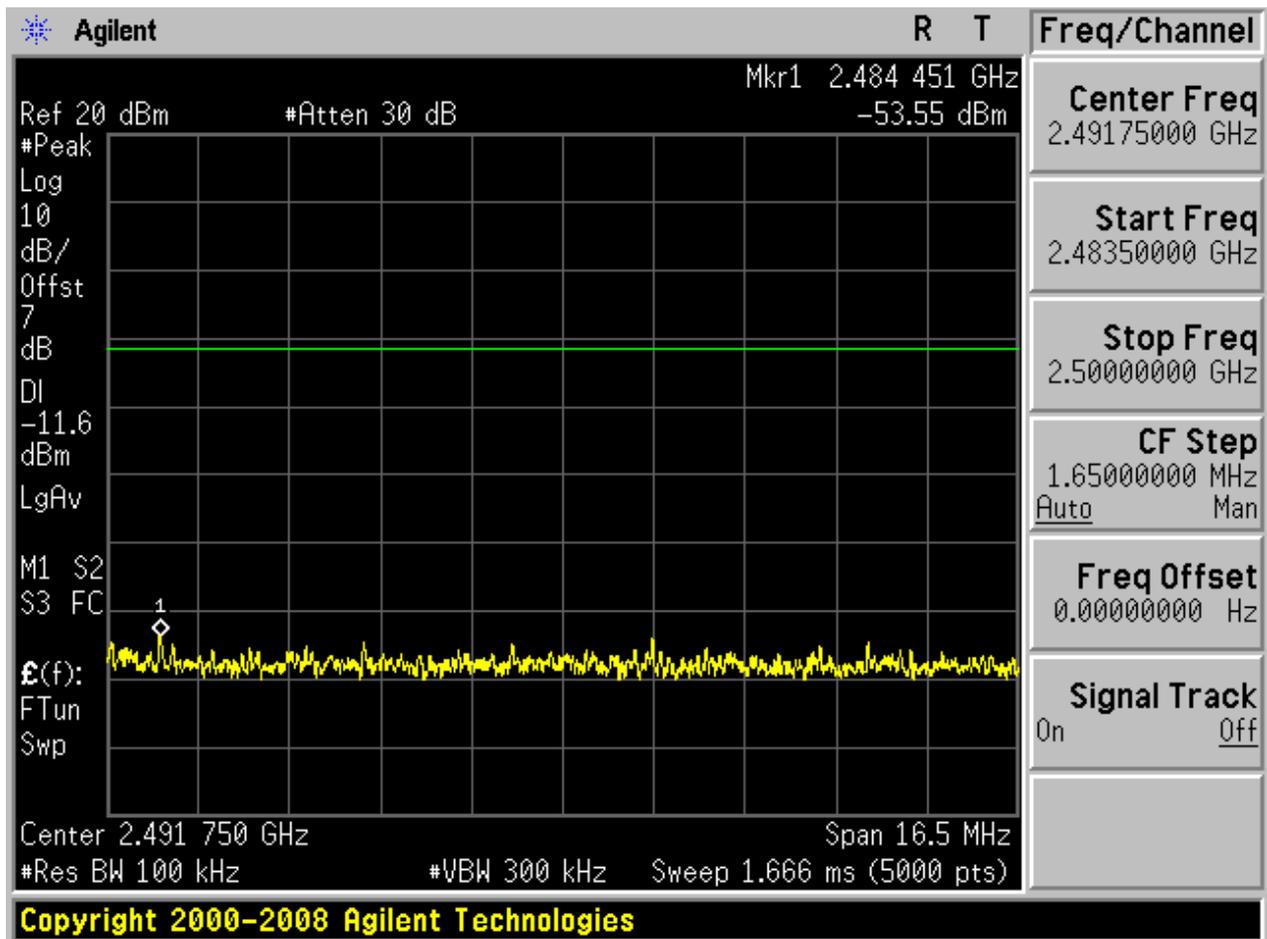


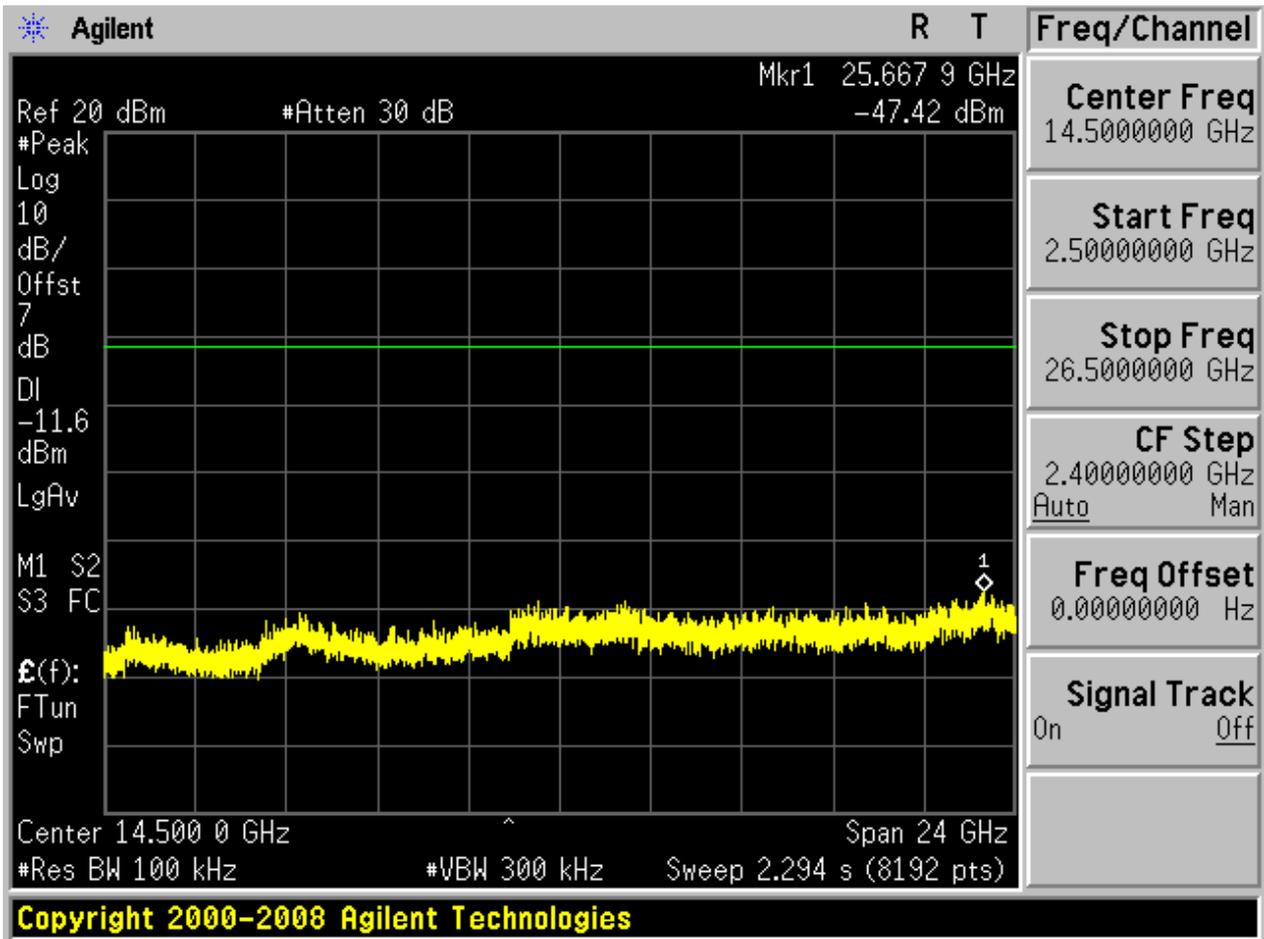
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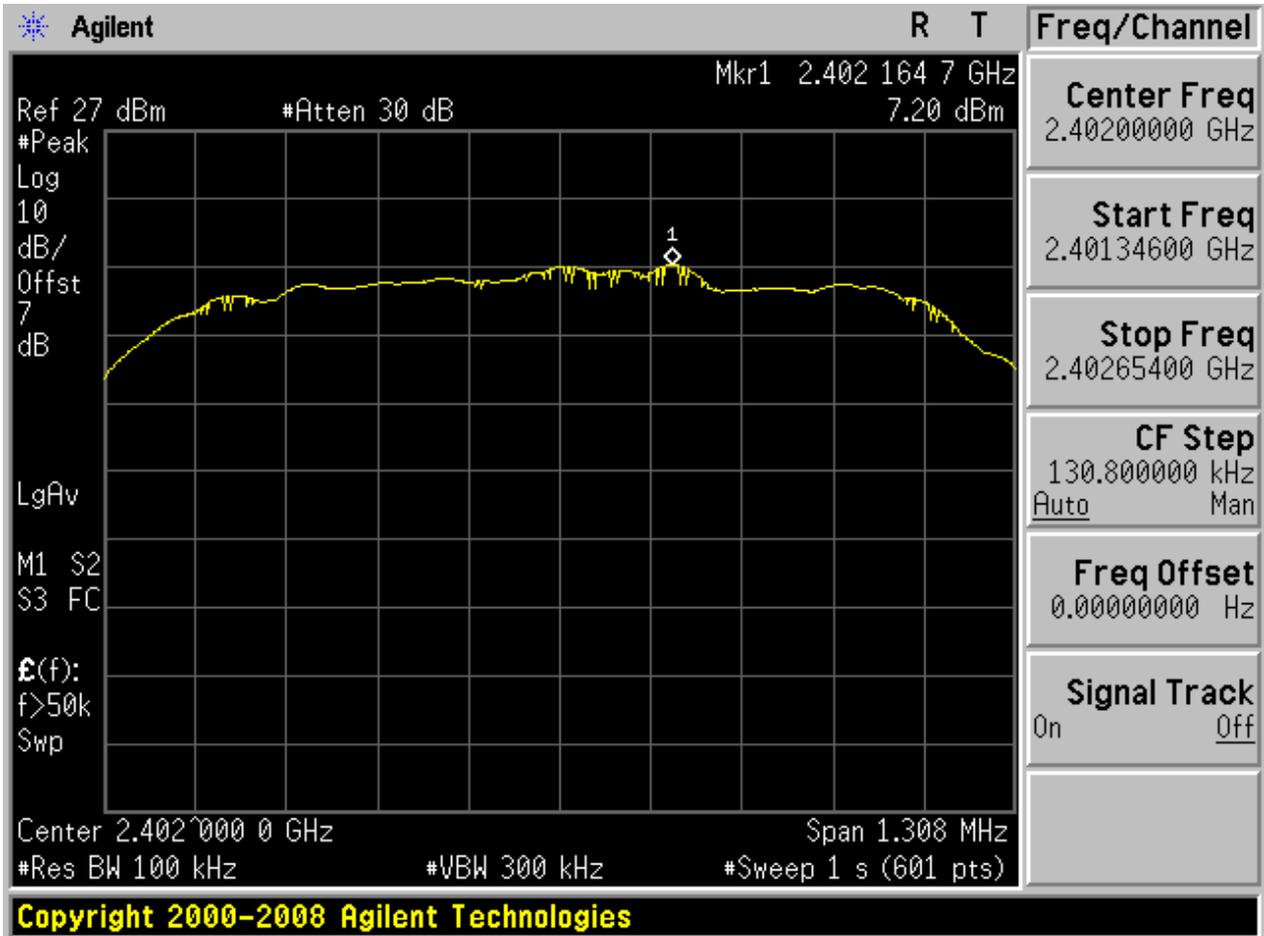




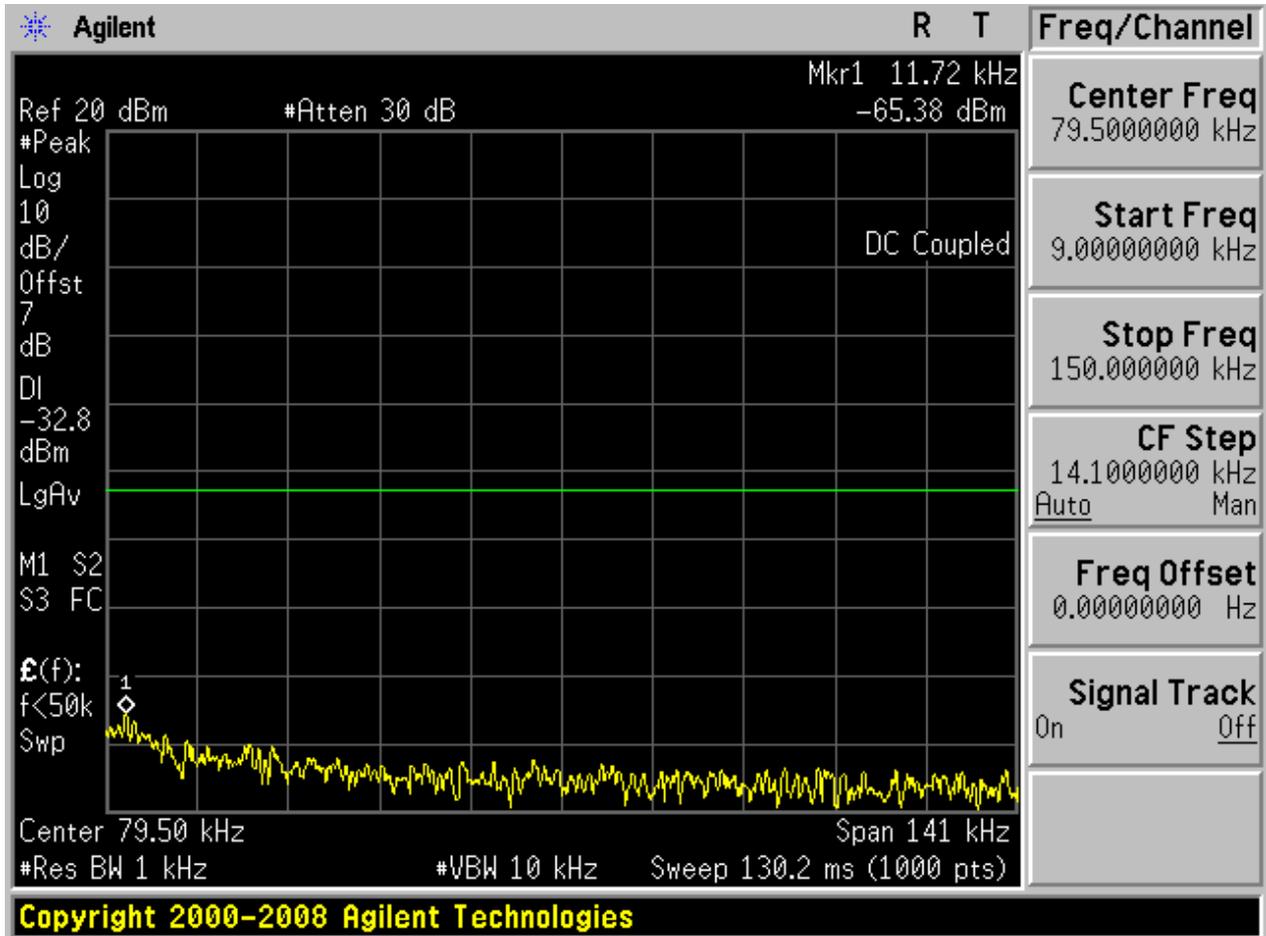


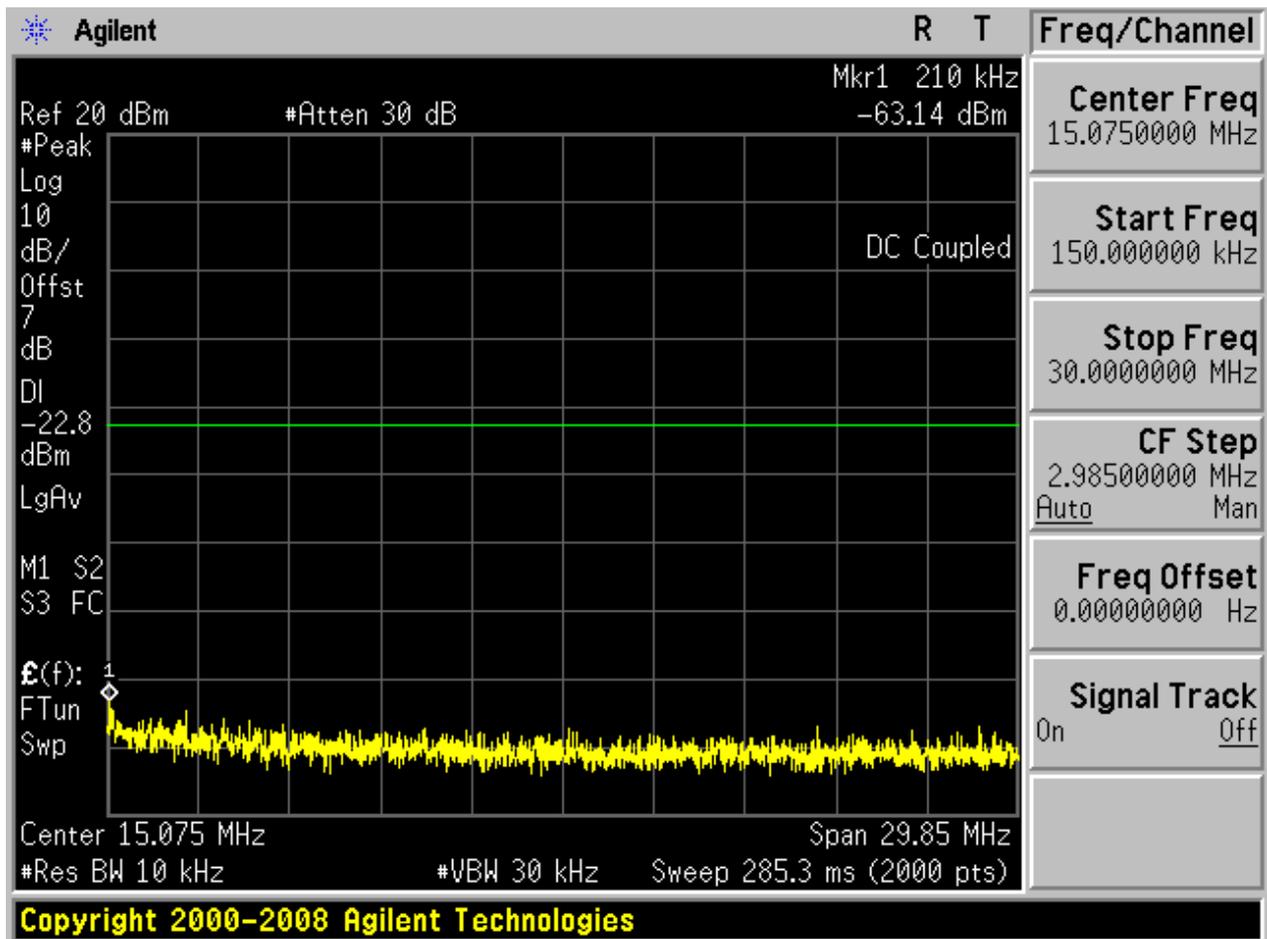
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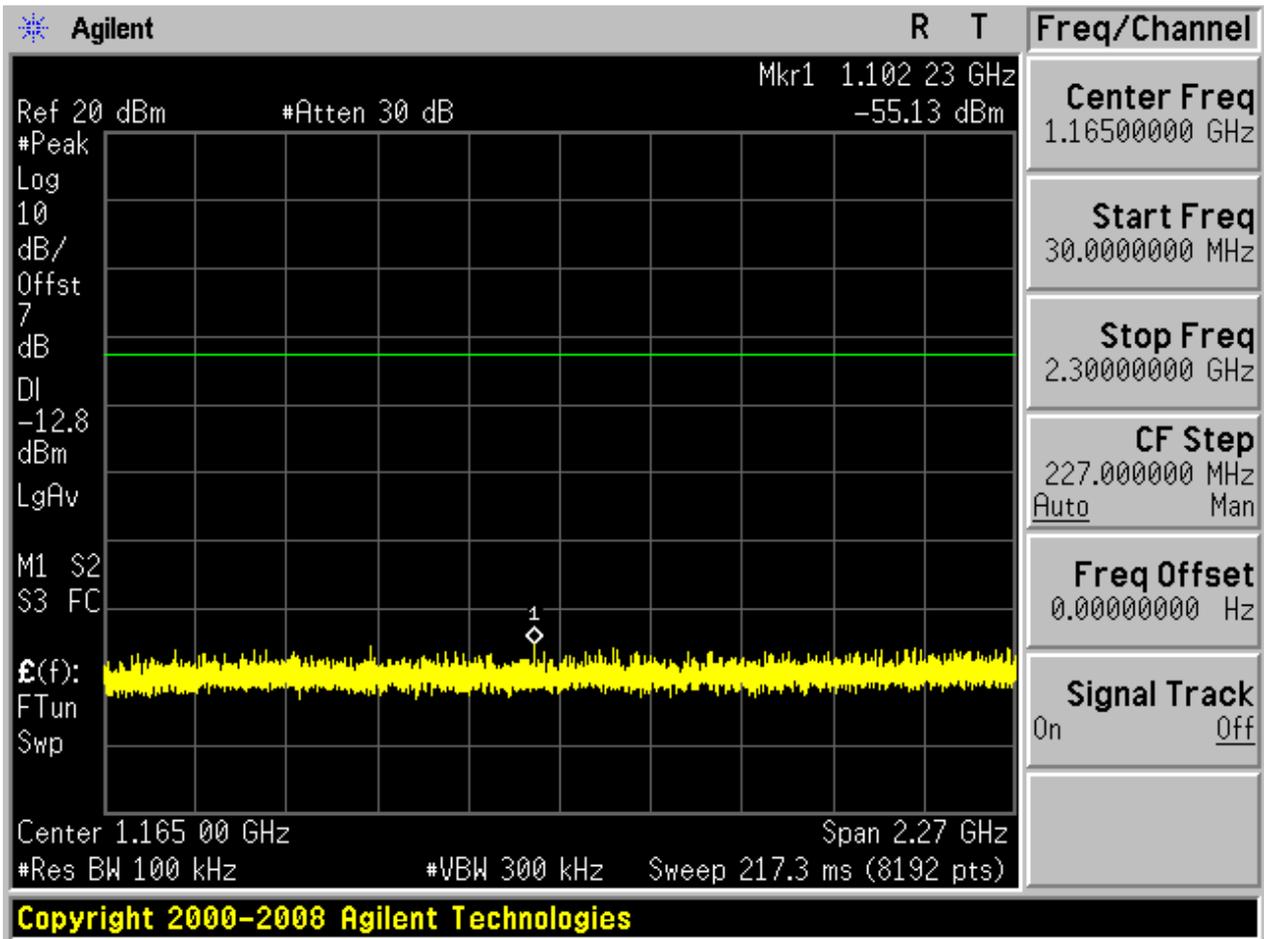
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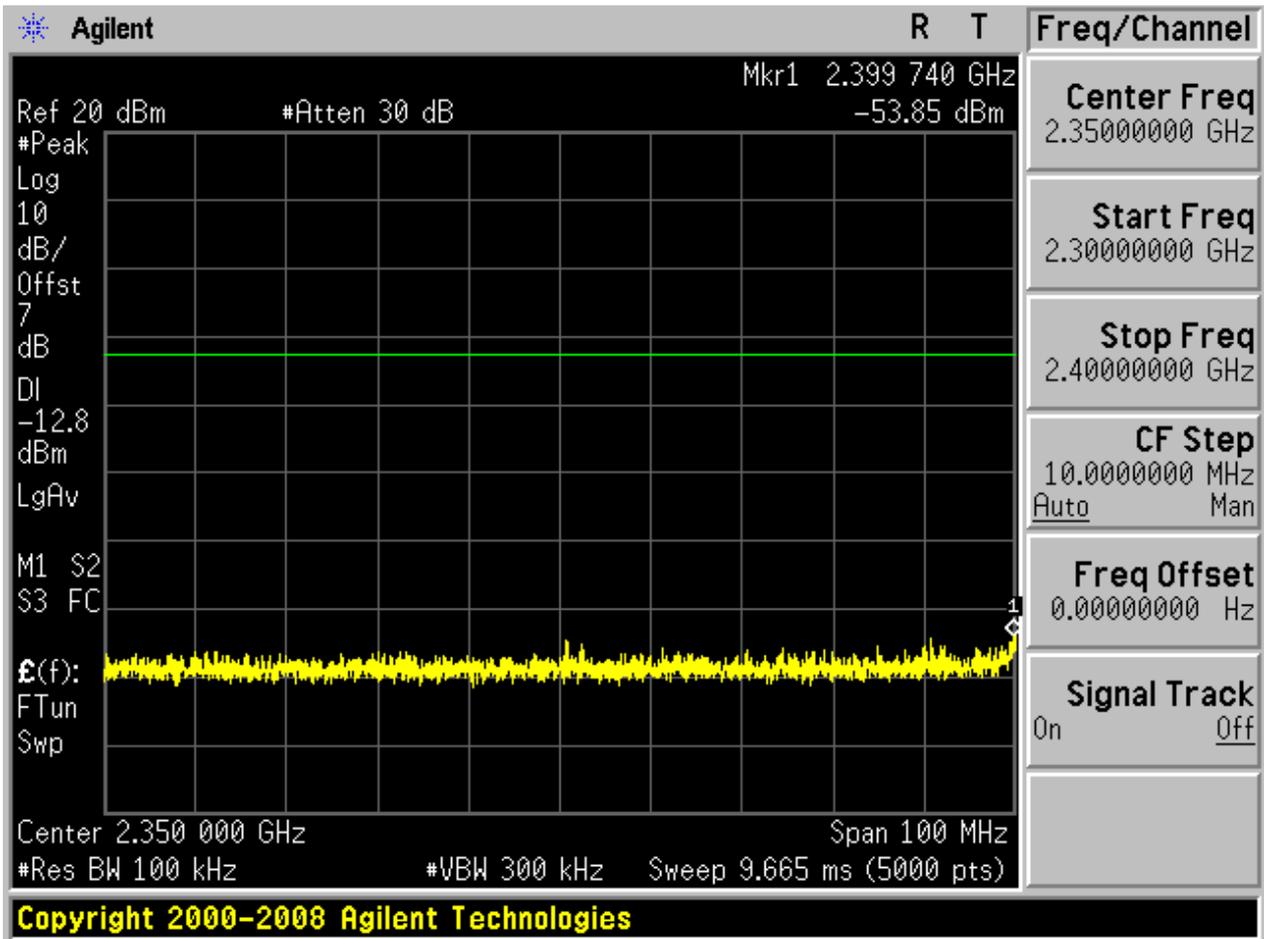


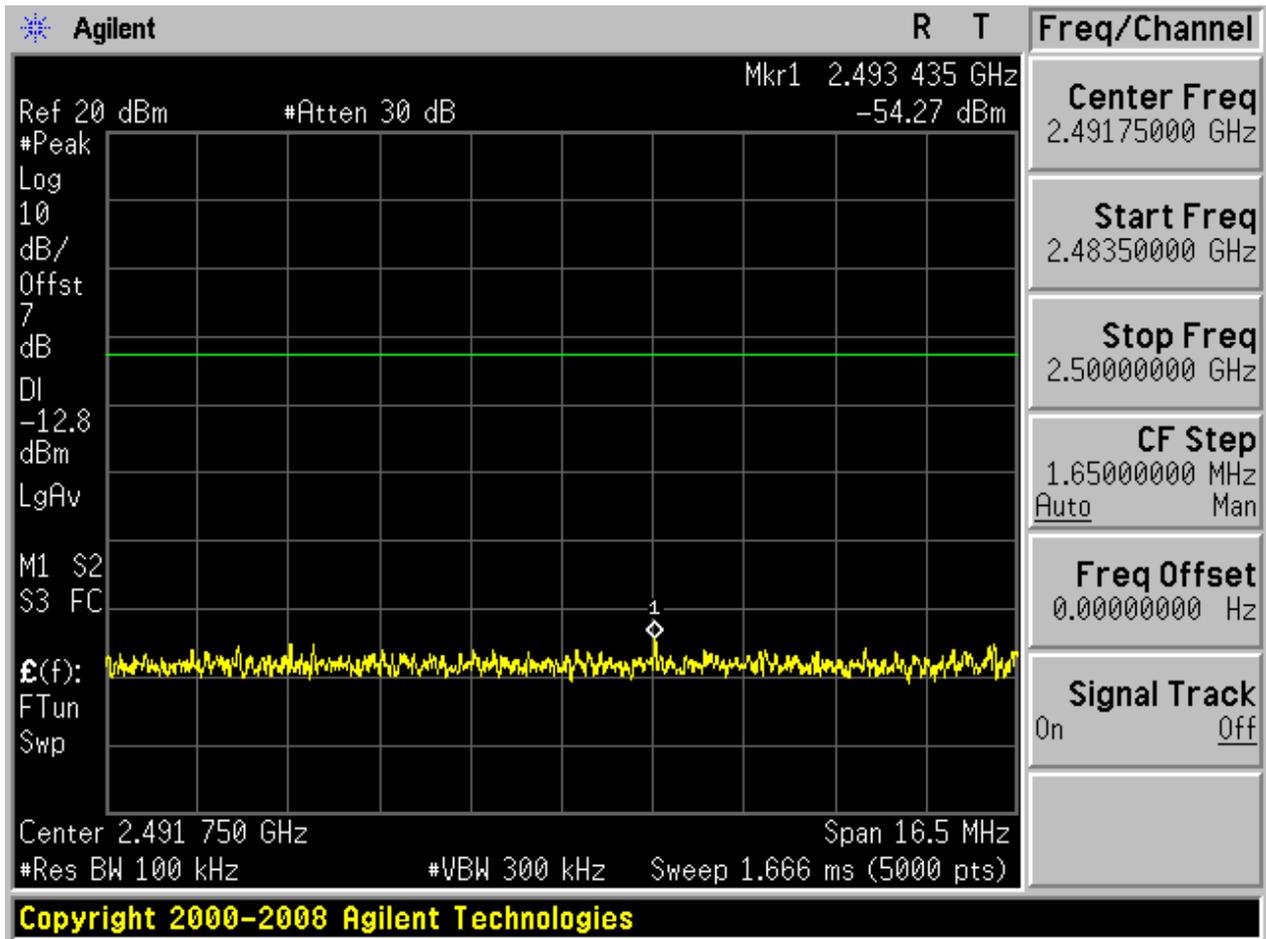
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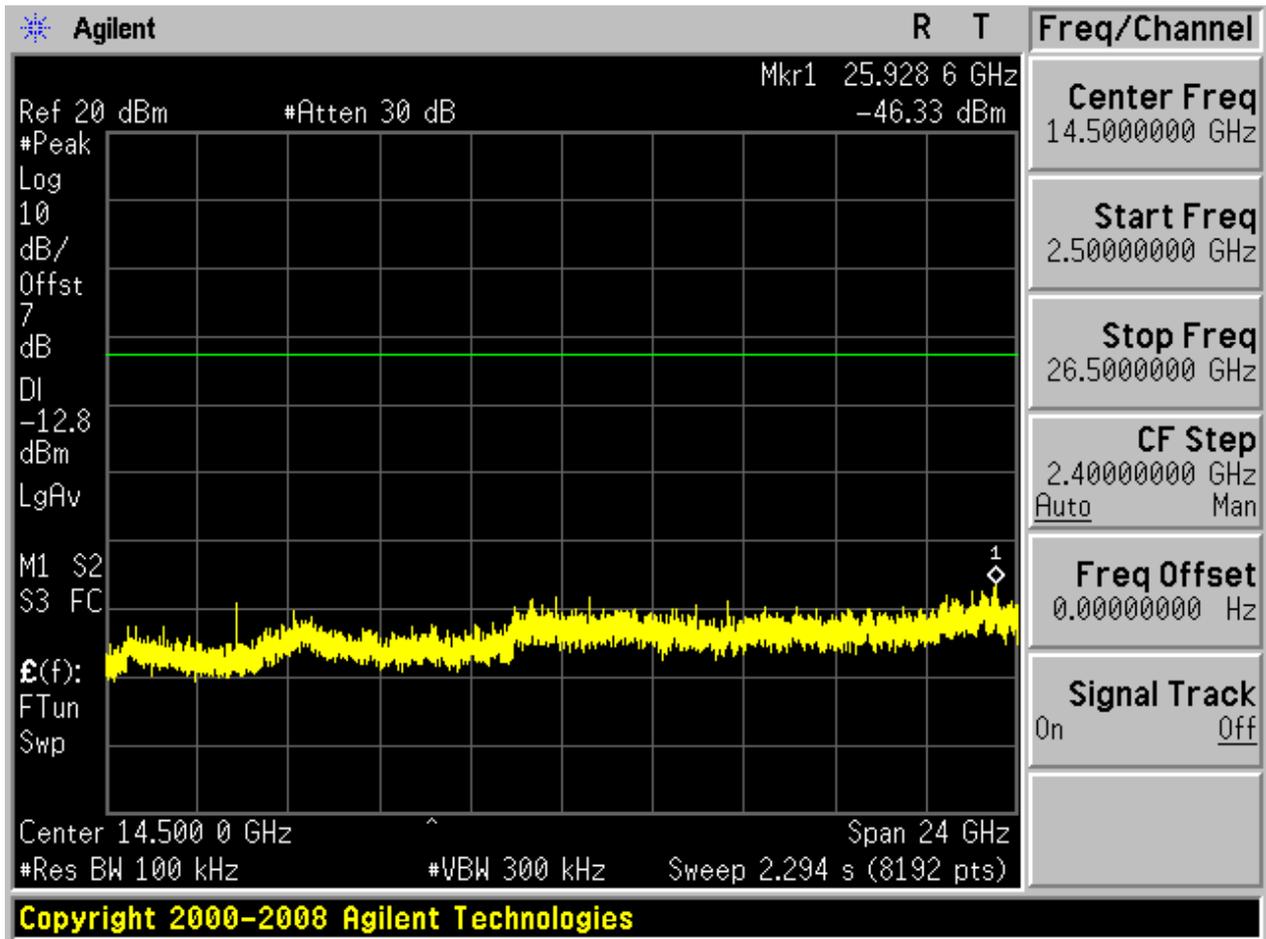








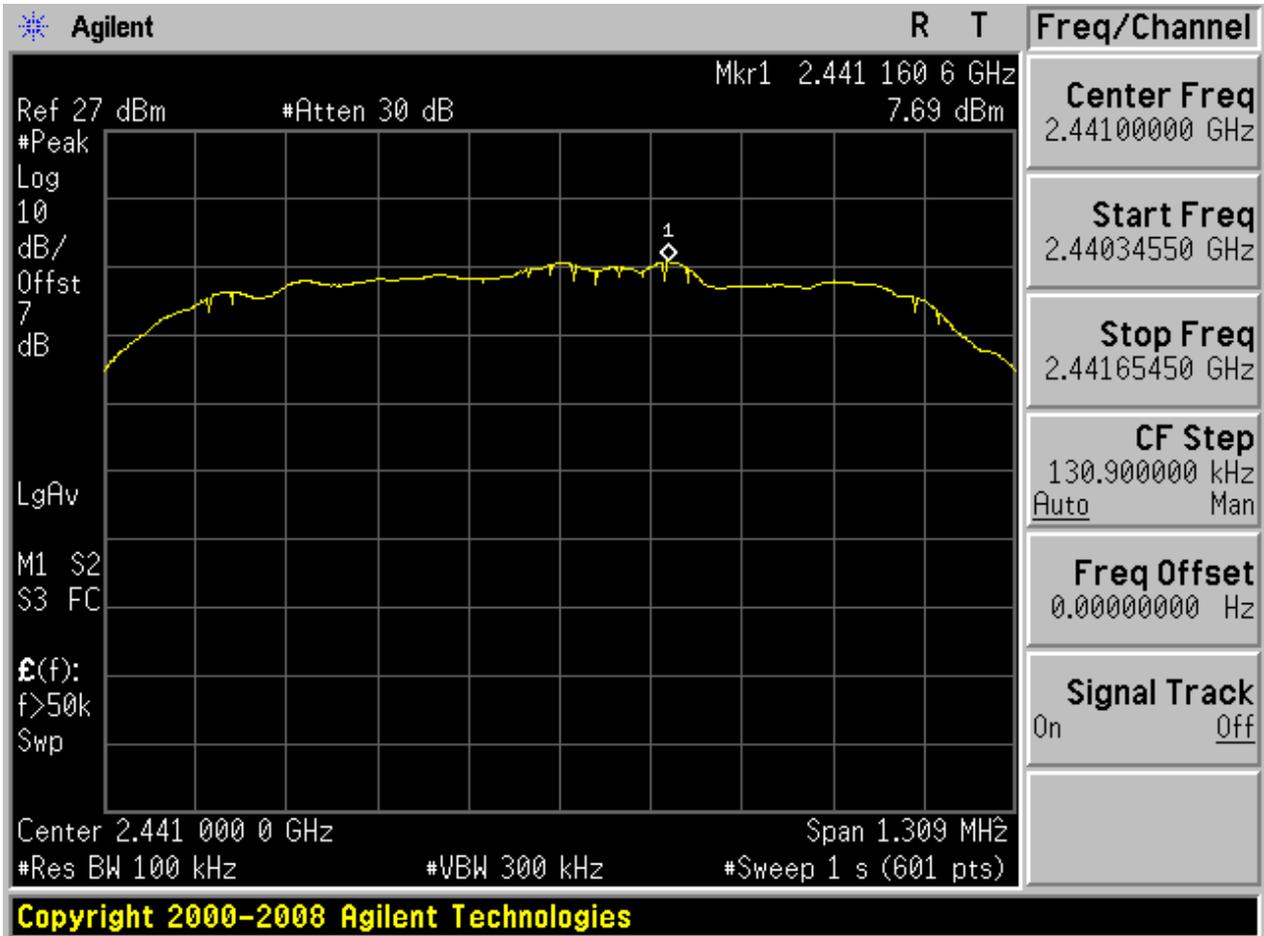






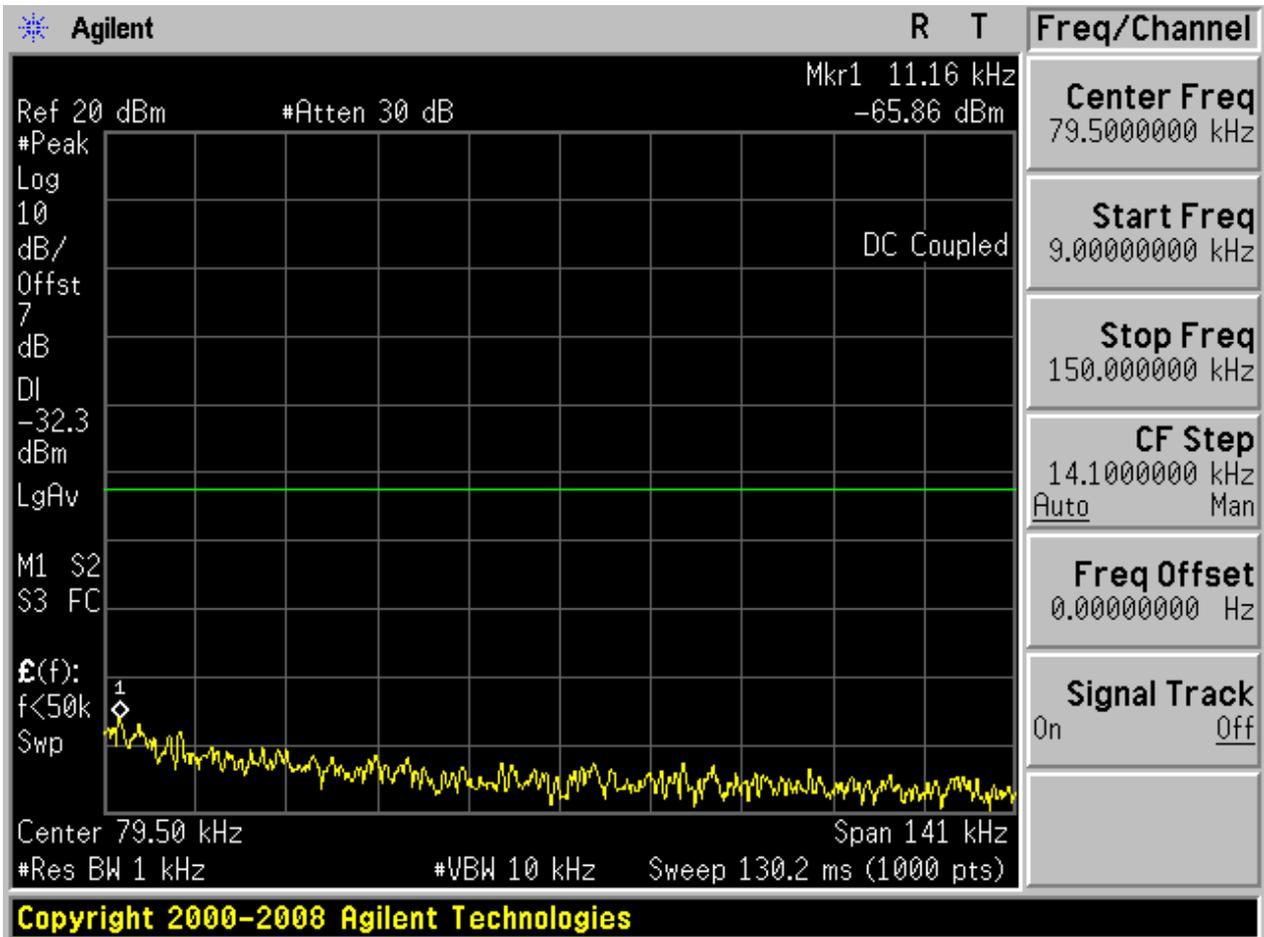
2.8 TM3_3DH5_Ch39

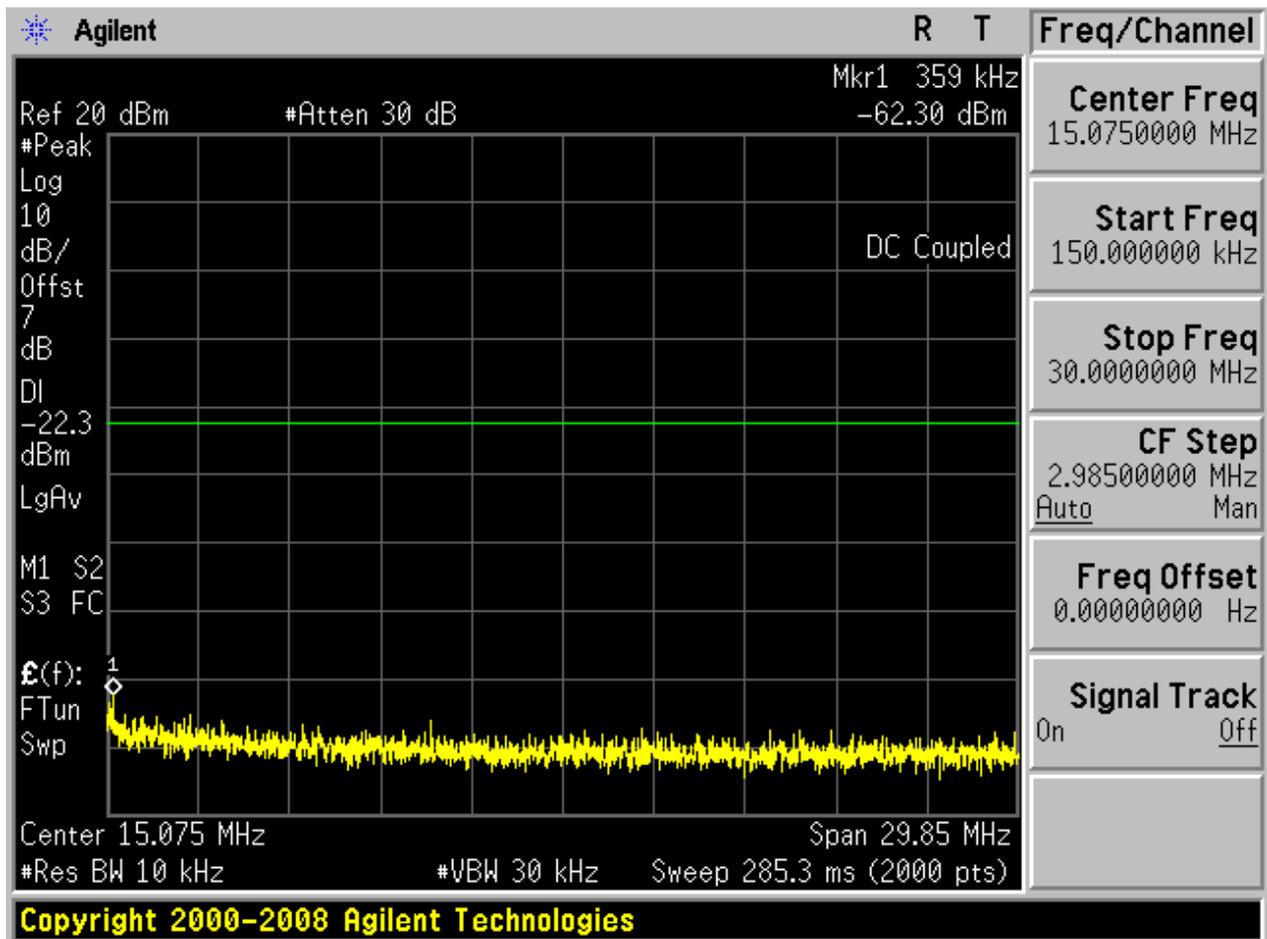
2.8.1 Pref

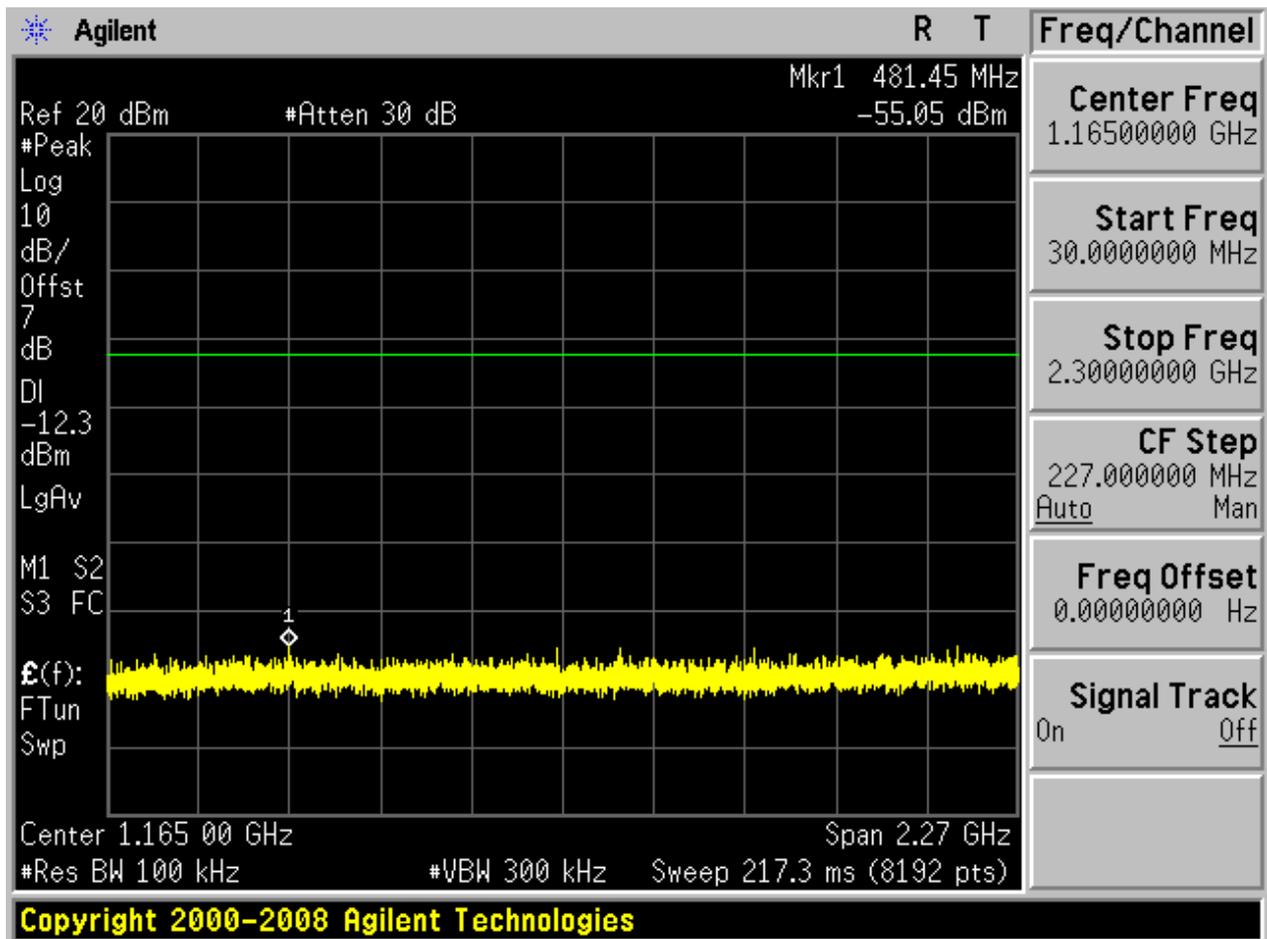


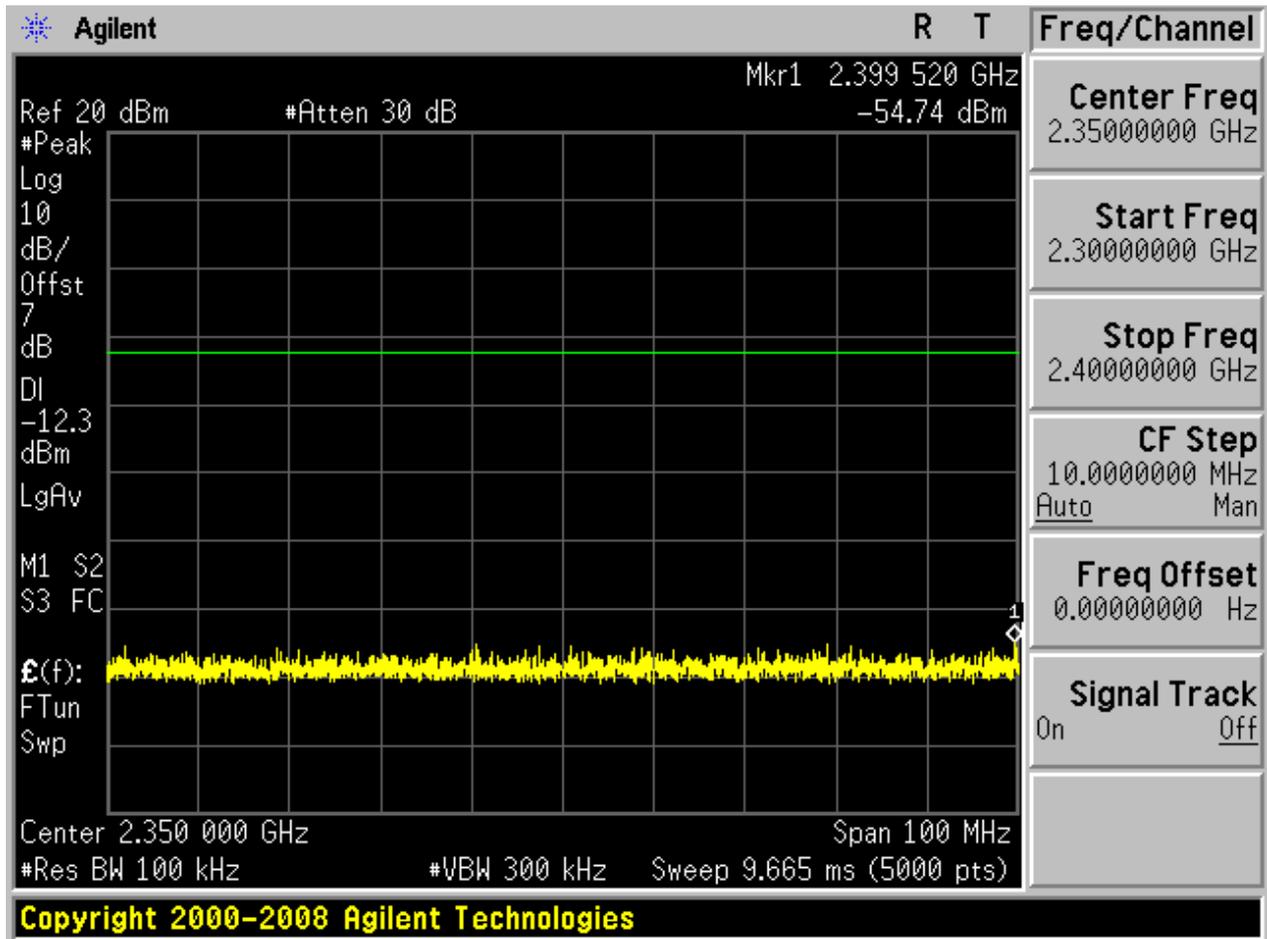


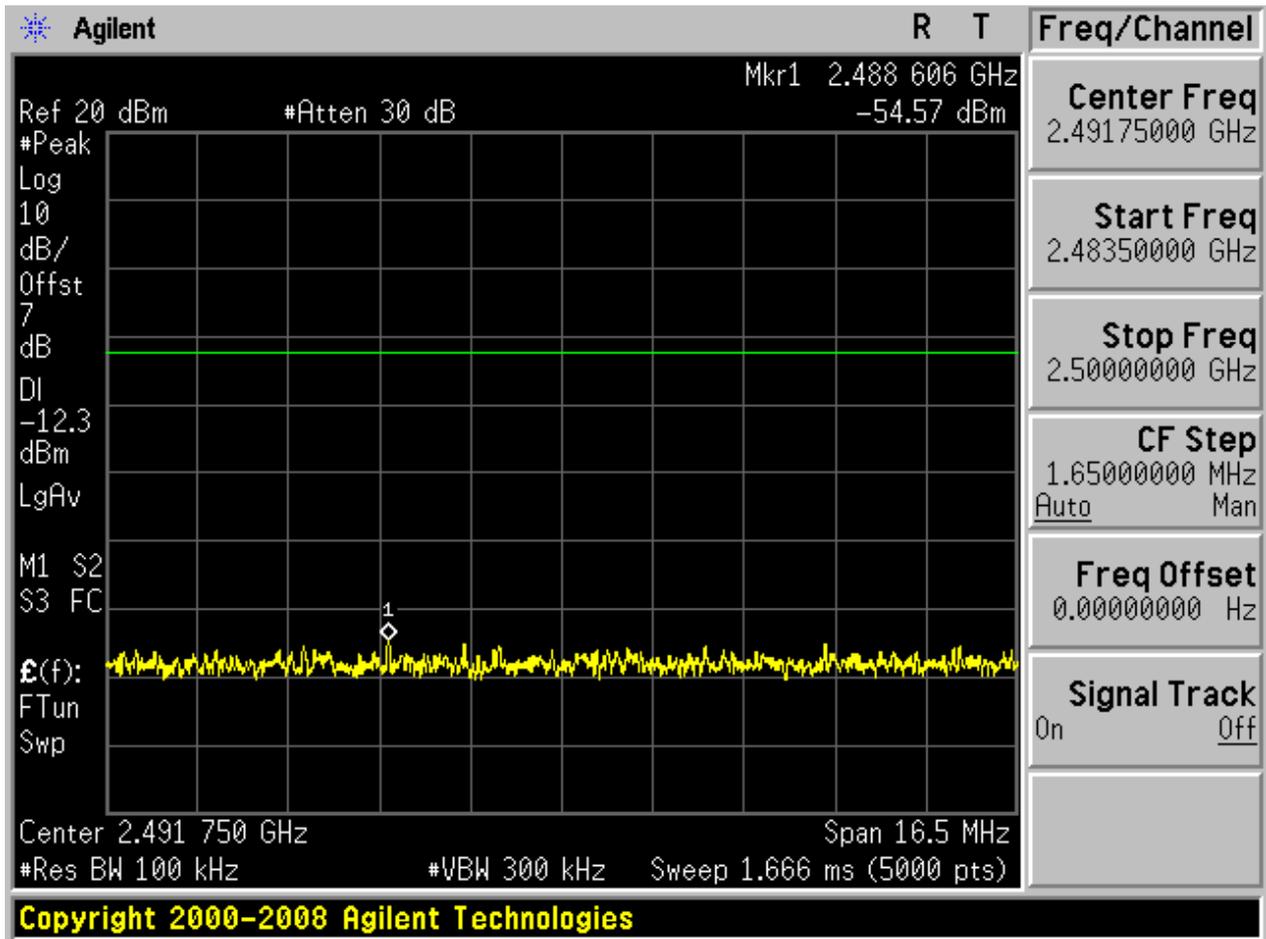
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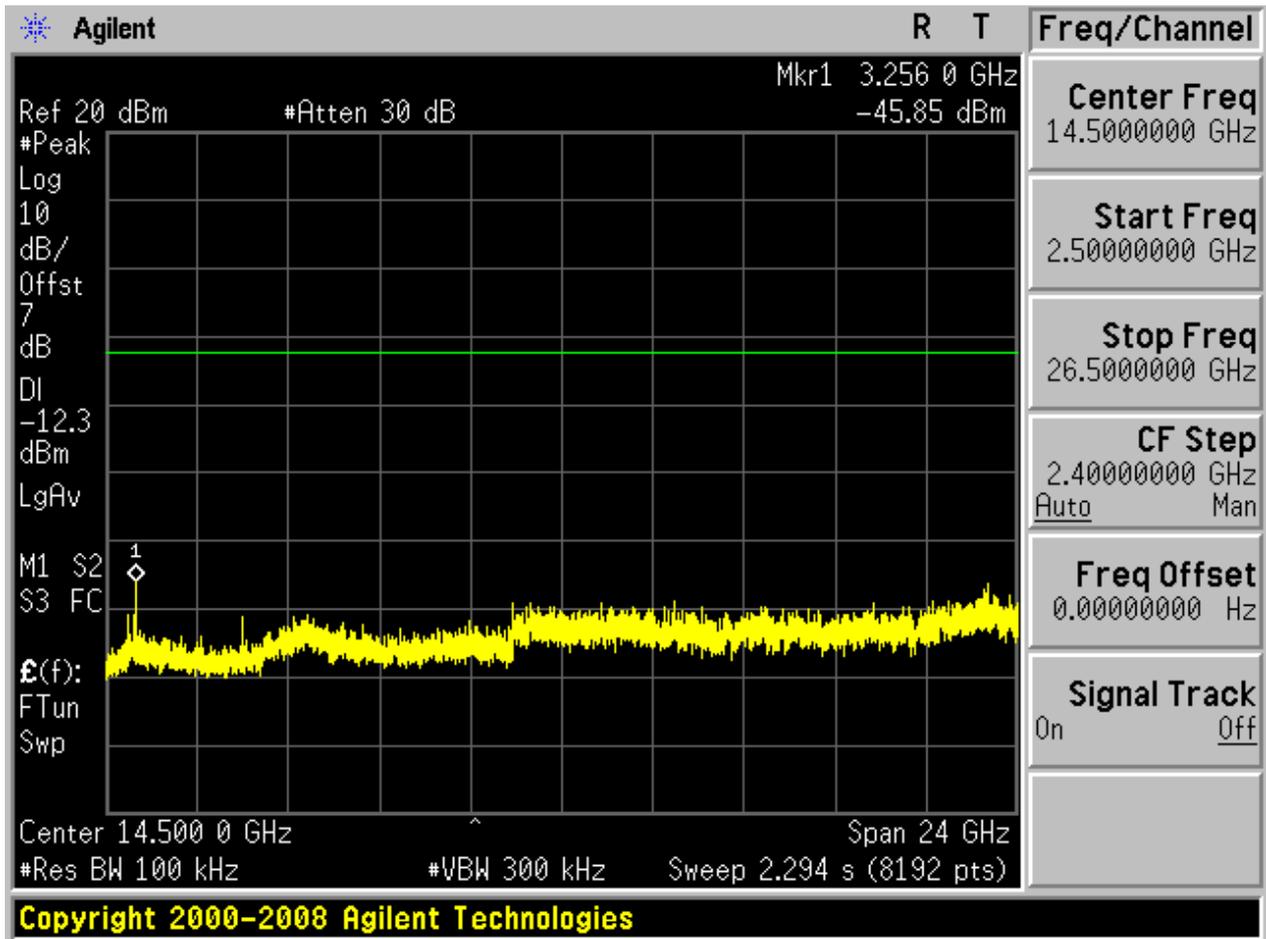






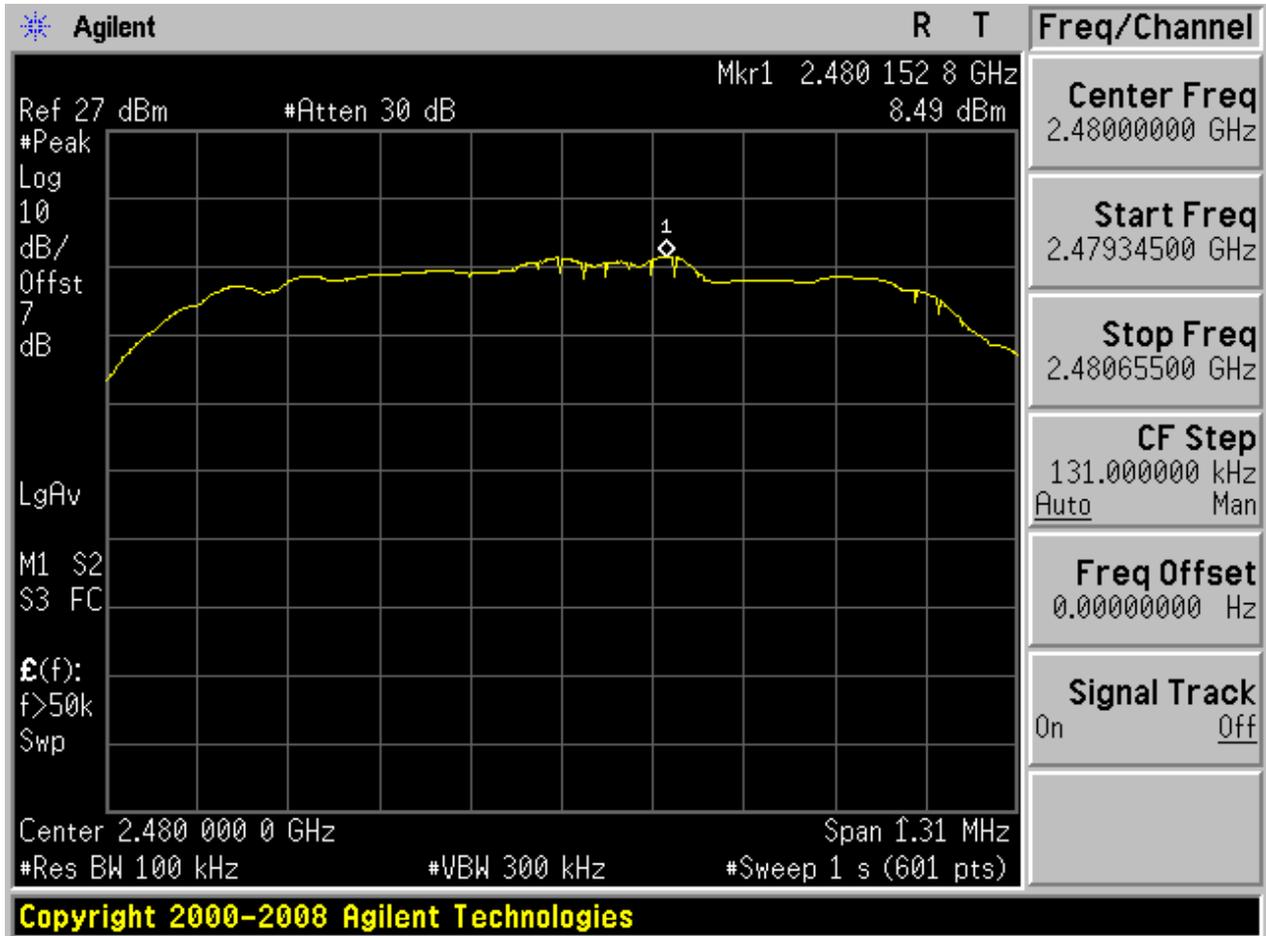






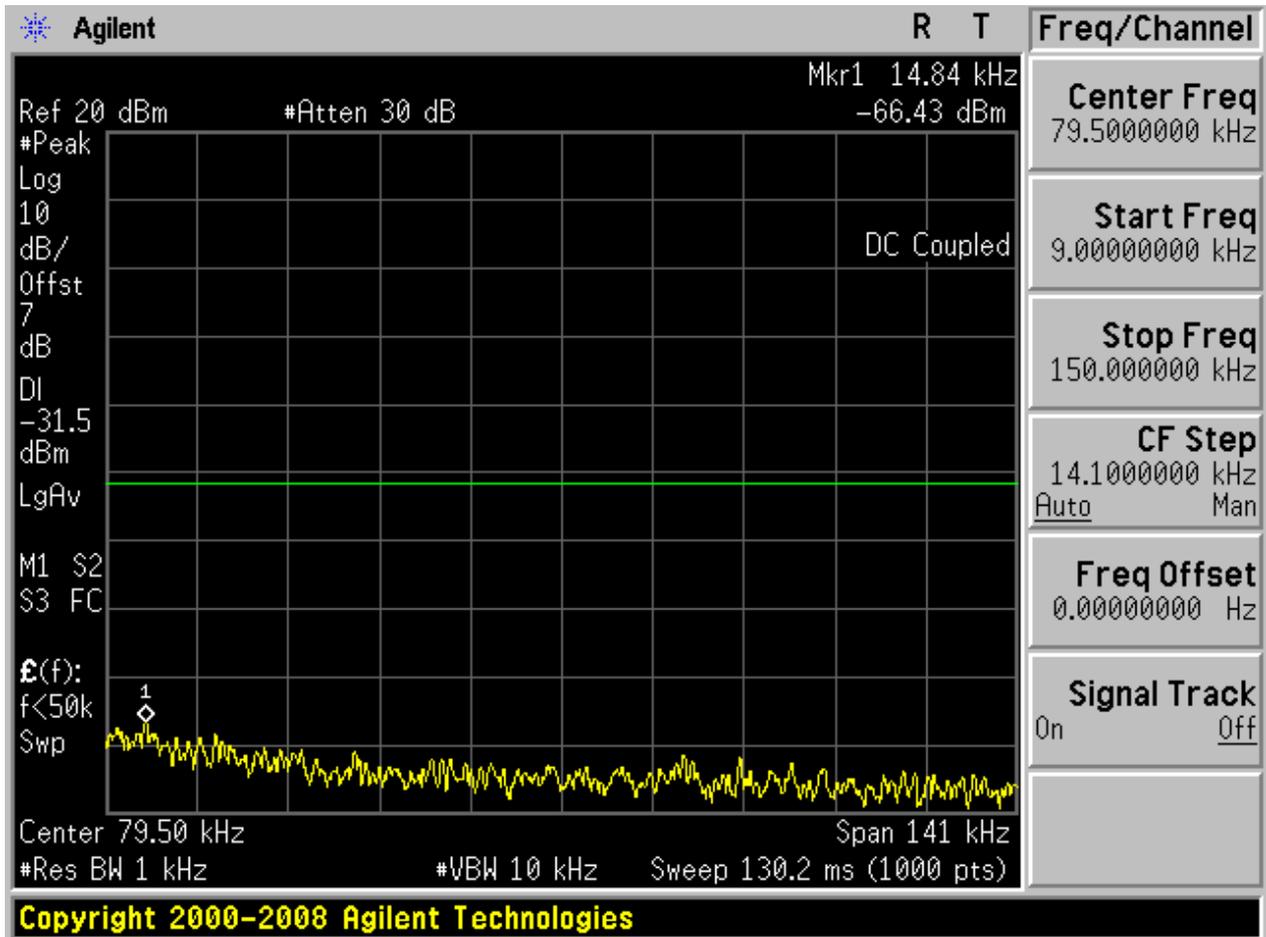
2.9 TM3_3DH5_Ch78

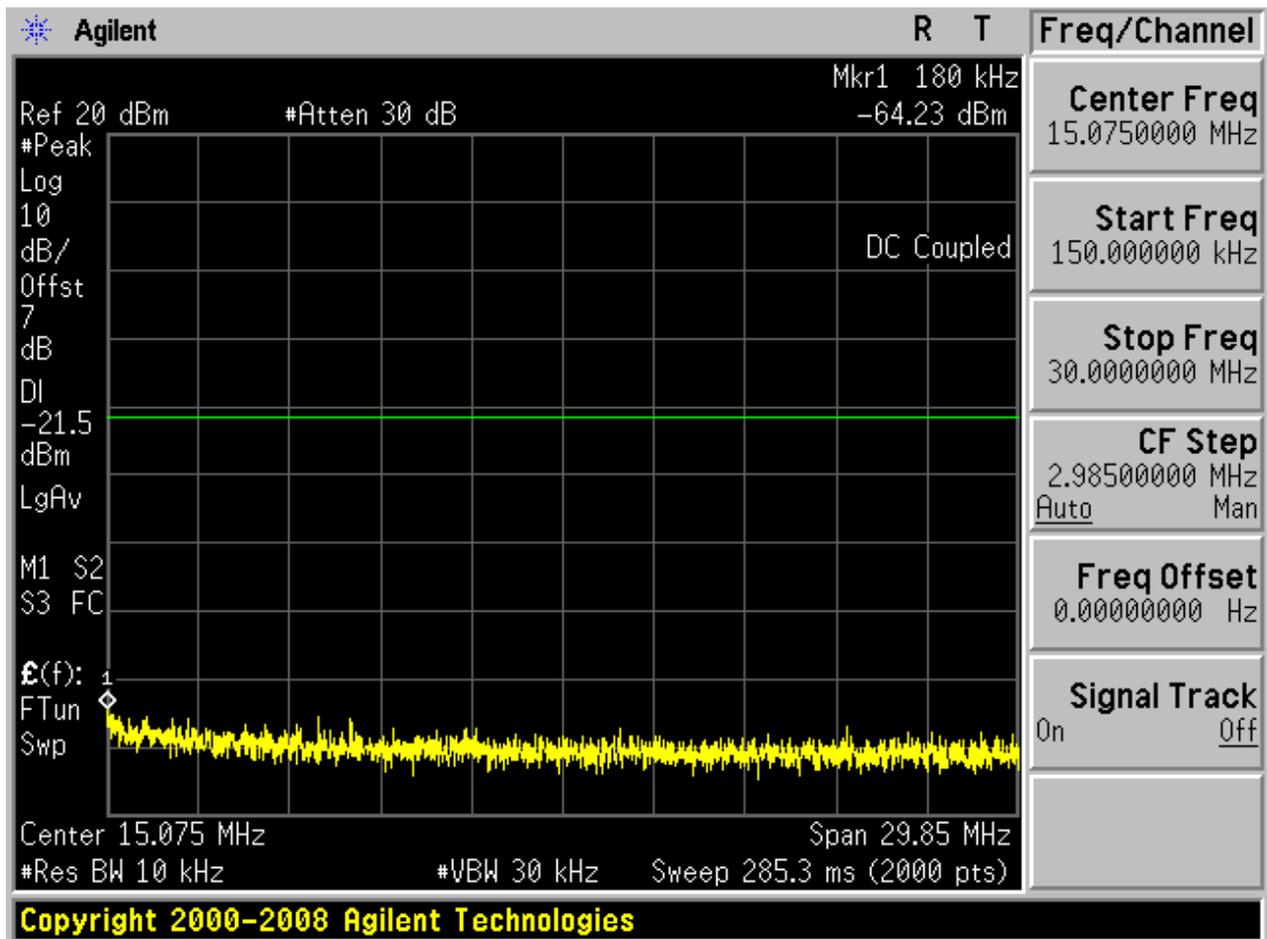
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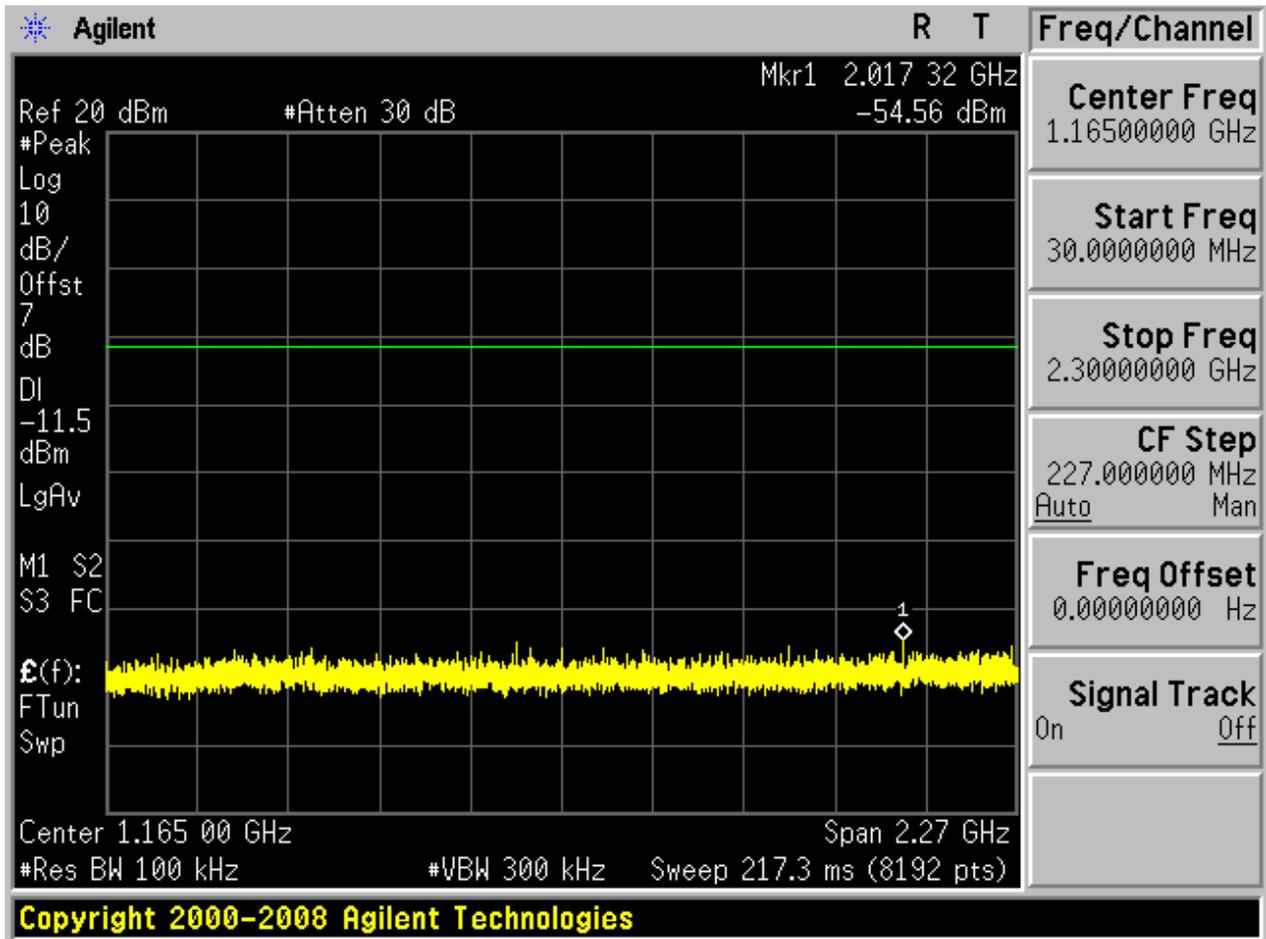


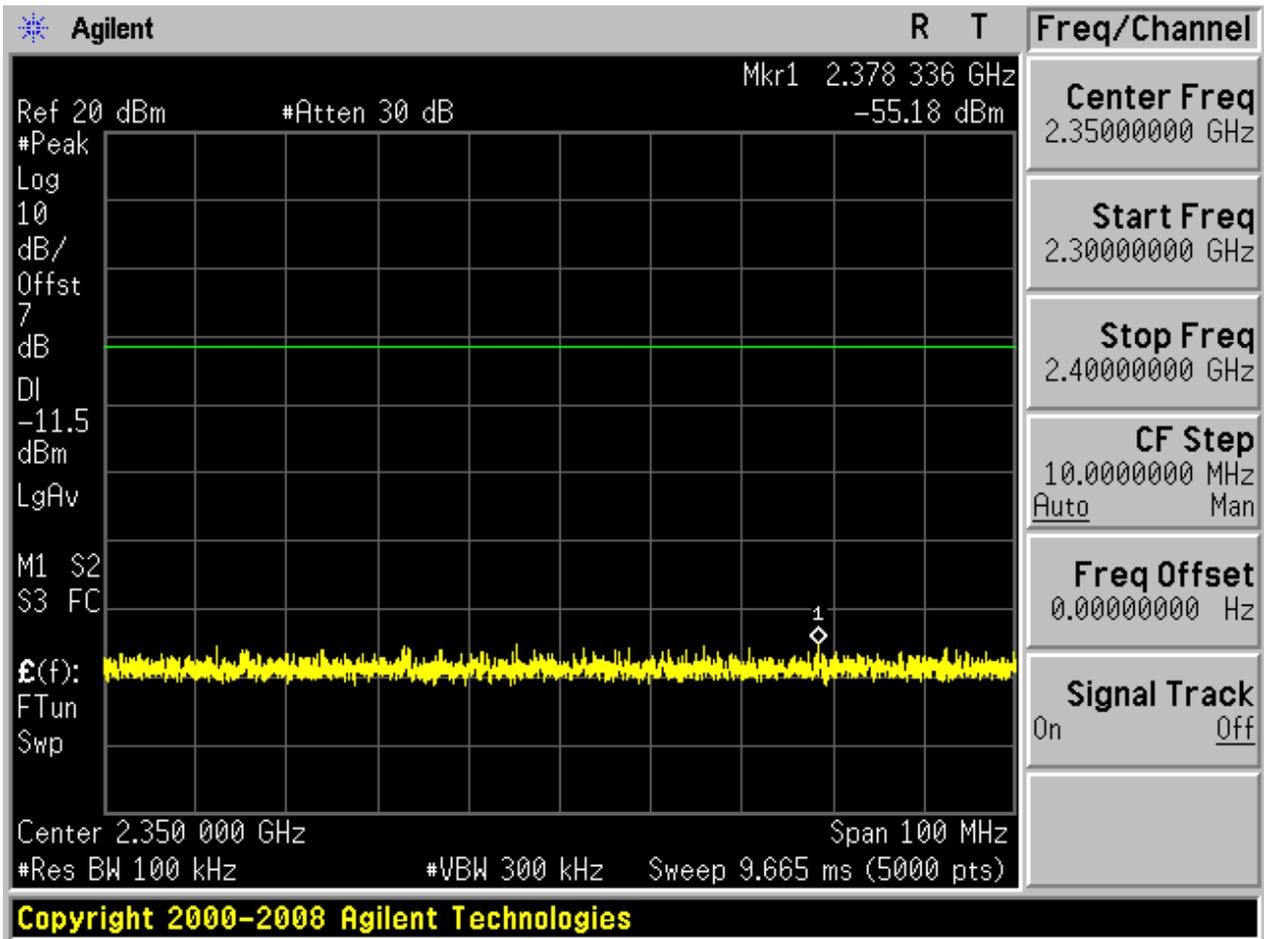


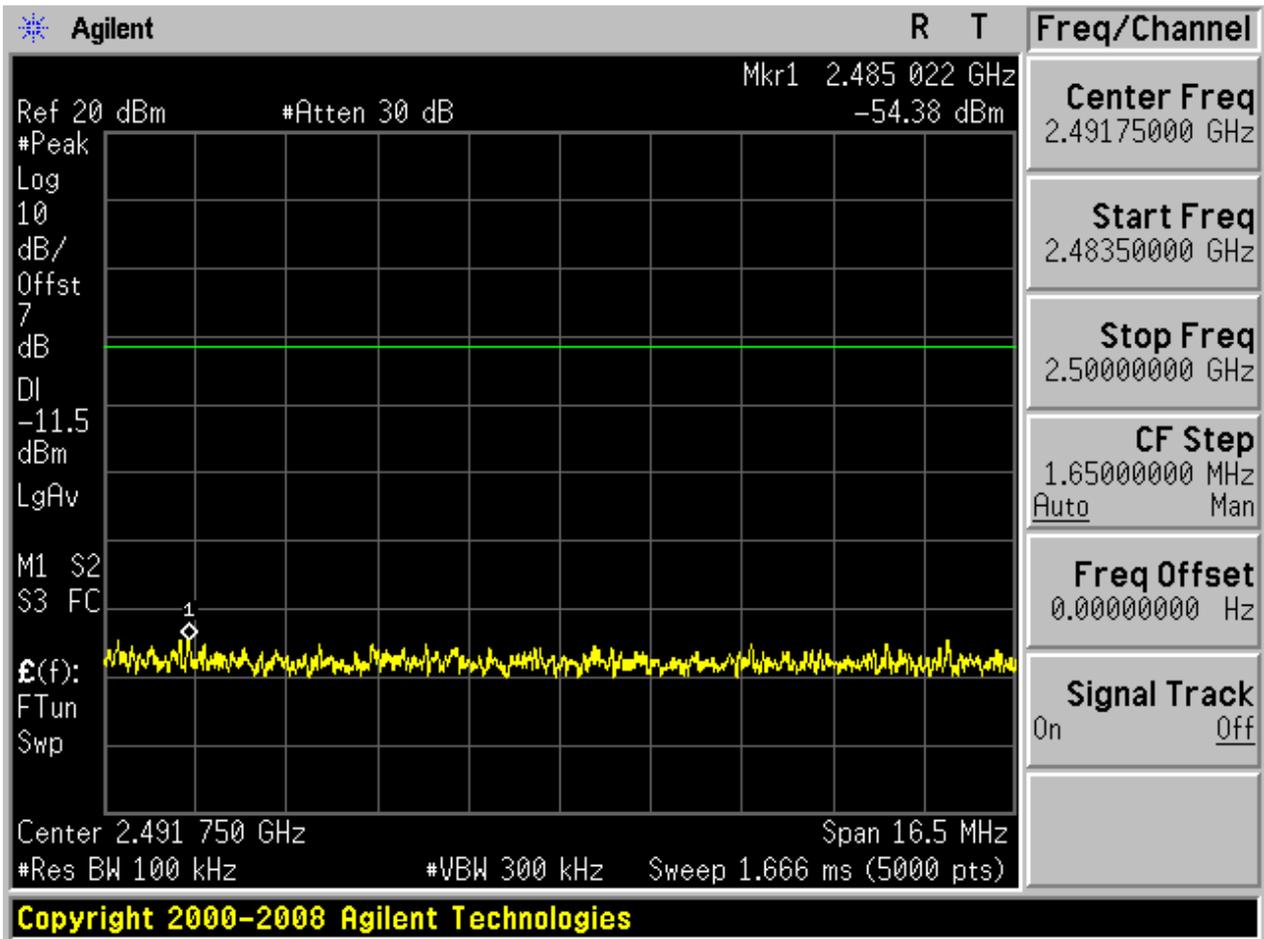
2.9.2 Puw

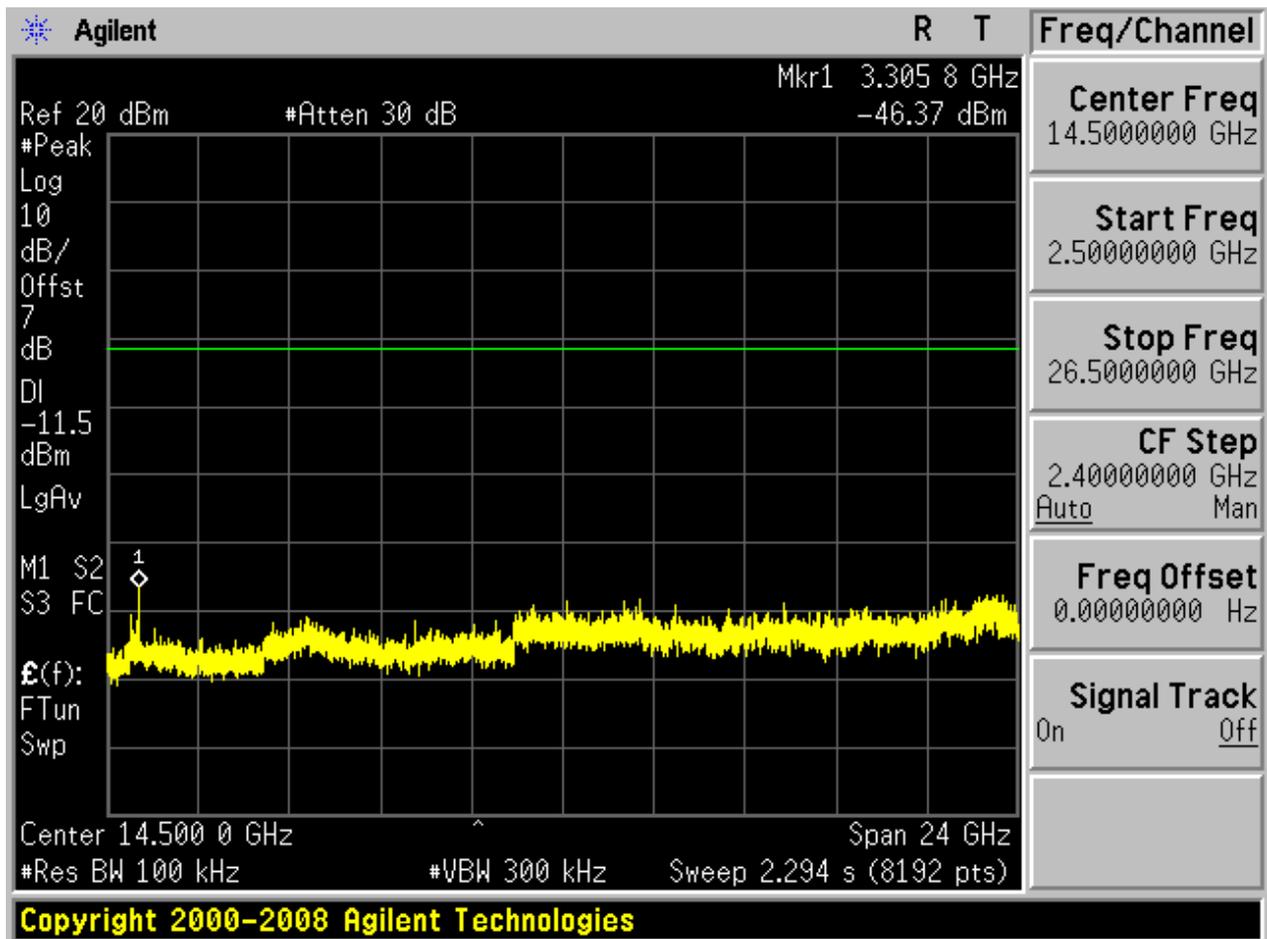














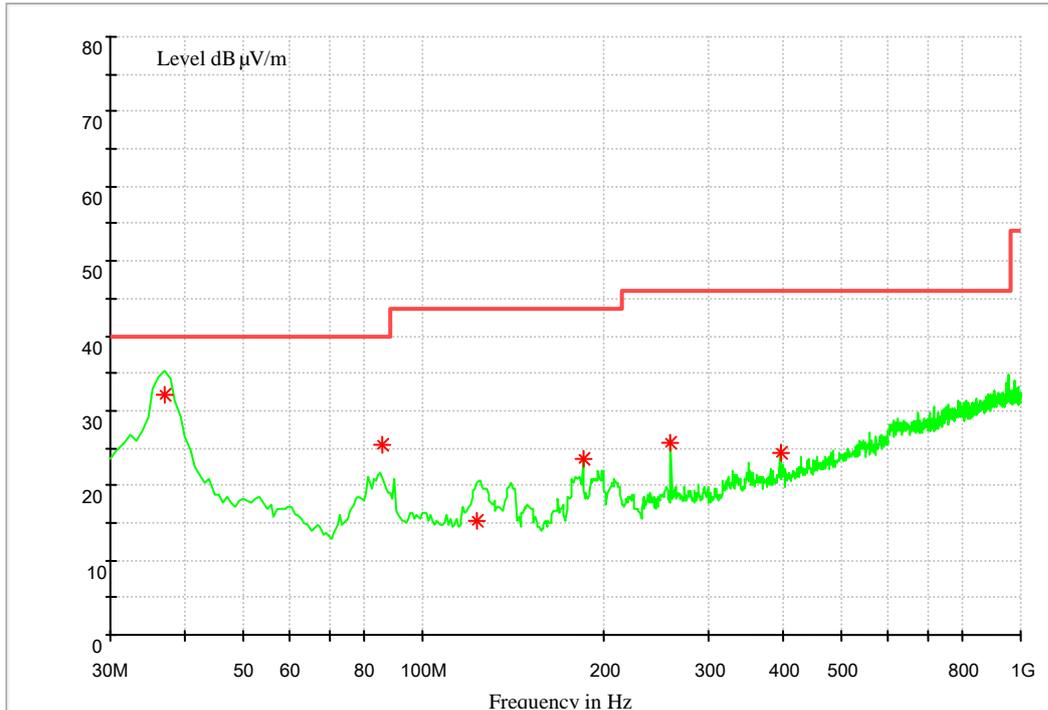
Appendix H

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)**.

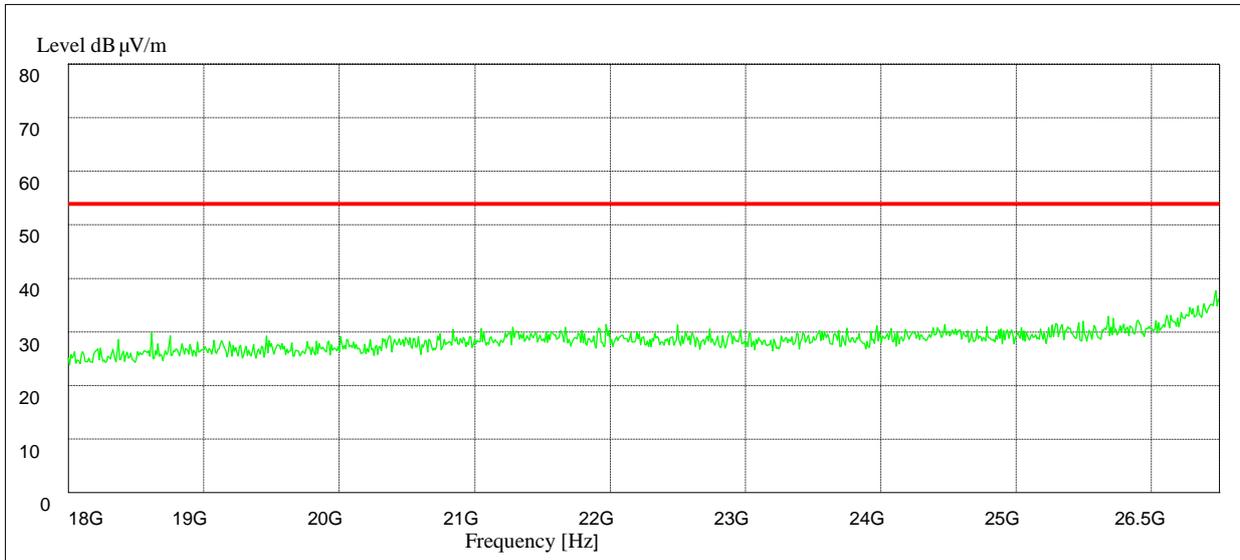


MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBµV/m	Transducer dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
36.911040	32.0	12.5	40.0	8.0	100.0	198.0	VERTICAL
85.721920	25.3	10.6	40.0	14.7	196.0	121.0	HORIZONTAL
123.431040	15.3	10.5	43.5	28.2	100.0	108.0	VERTICAL
185.626240	23.4	11.5	43.5	20.1	178.0	248.0	HORIZONTAL
259.870720	25.7	14.9	46.0	20.3	100.0	238.0	HORIZONTAL
395.982080	24.4	18.6	46.0	21.6	100.0	128.0	HORIZONTAL



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



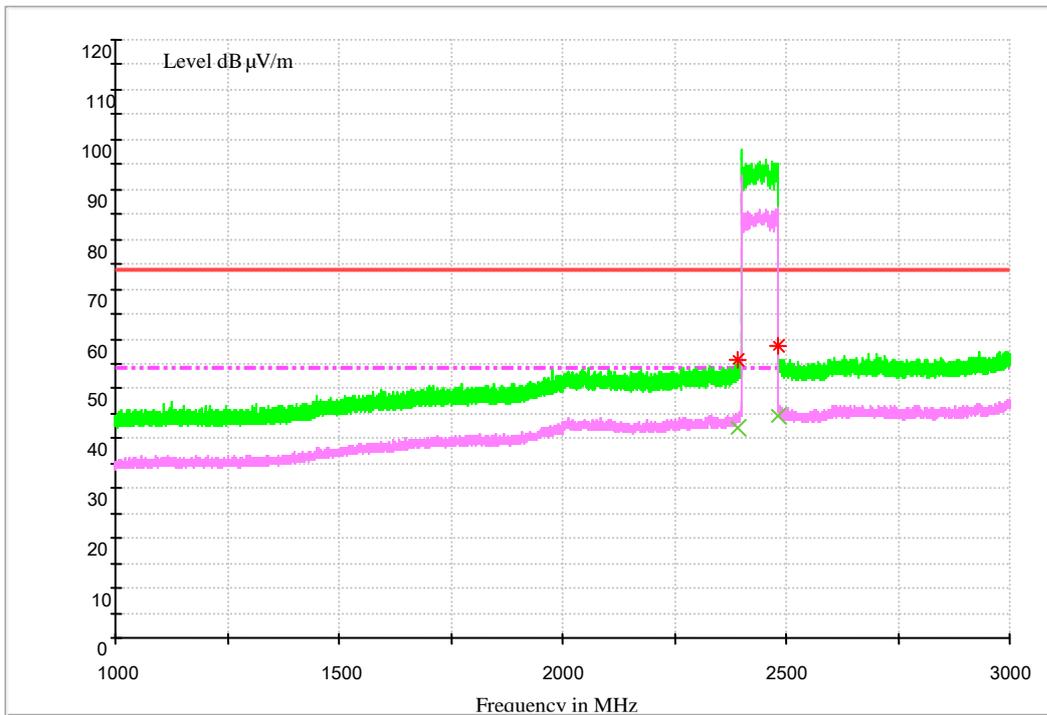
Note: No peak found in pre- test.

Part 3: Testing Range of “1GHz to 3GHz”

- Note 1: The testing range of “1 GHz 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.

3 Test Mode:

3.1 Channel 00



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

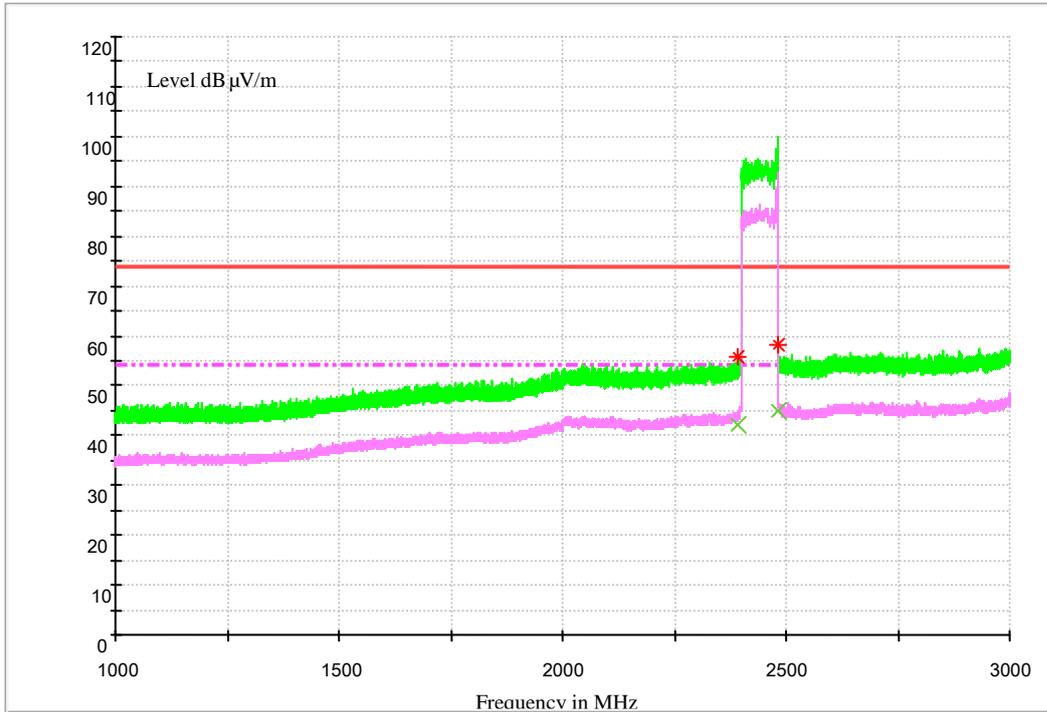
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	56.3	38.3	74.0	17.7	100.0	117.0	HORIZONTAL
2483.500000	57.7	40.3	74.0	16.3	100.0	214.0	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	43.5	38.3	54.0	10.5	100.0	54.0	HORIZONTAL
2483.500000	44.4	40.3	54.0	9.6	100.0	238.0	HORIZONTAL

3.2 Channel 78



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	55.8	38.3	74.0	18.2	100.0	114.0	HORIZONTAL
2483.500000	56.5	40.3	74.0	17.5	100.0	307.0	HORIZONTAL

MEASUREMENT RESULT: AVDetector

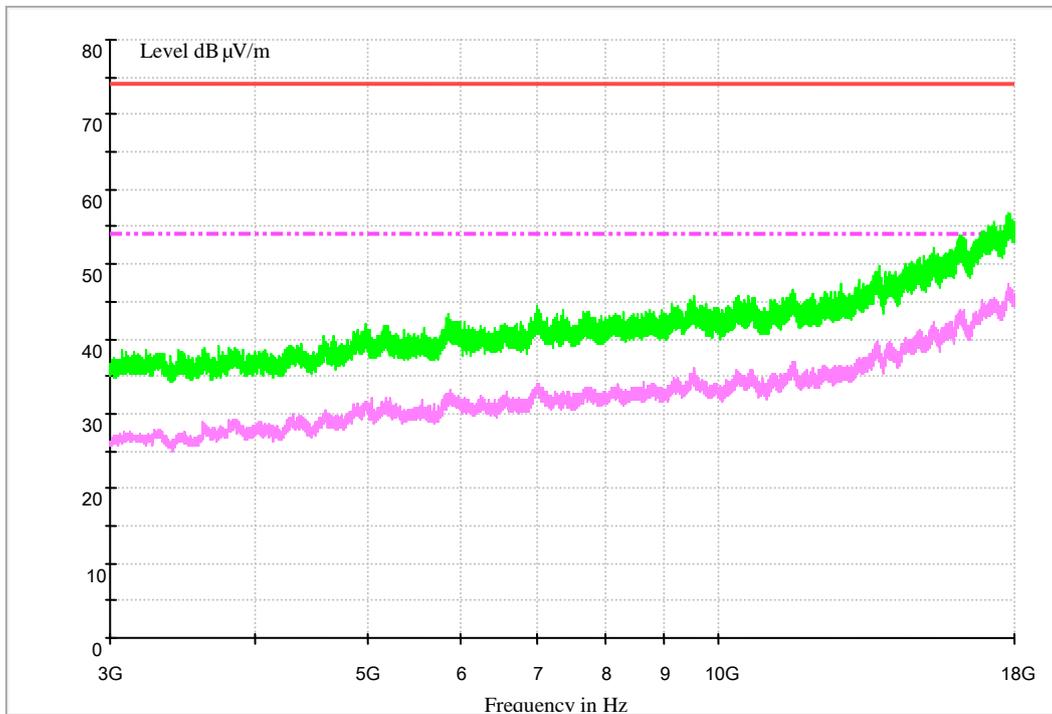
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	42.6	38.3	54.0	11.4	100.0	128.0	HORIZONTAL
2483.500000	44.3	40.3	54.0	9.7	100.0	111.0	VERTICAL

3.3

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

- Note 1: The test results and plot for testing range of “3 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 “3 GHz 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).

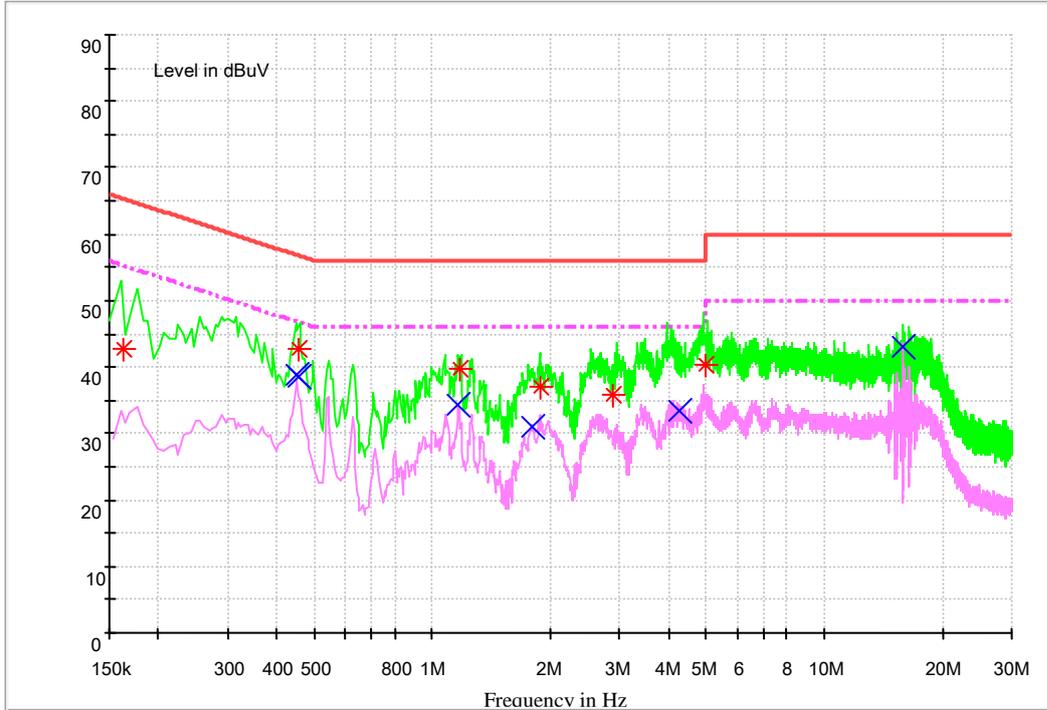
4 Test Mode:





Appendix I: AC Power Line Conducted Emissions

Channel 39



MEASUREMENT RESULT: QP Detector

Frequency	Level	Transducer	Limit	Margin	Line	PE
MHz	dB μ V	dB	dB μ V	dB		
0.163702	42.6	9.7	65.3	22.7	L1	FLO
0.458512	42.7	9.7	56.7	14.0	N	FLO
1.167942	39.6	9.7	56.0	16.4	L1	FLO
1.889854	37.0	9.7	56.0	19.0	L1	FLO
2.889942	35.8	9.7	56.0	20.2	N	FLO
4.964142	40.2	9.8	56.0	15.8	L1	FLO

MEASUREMENT RESULT: AV Detector

Frequency	Level	Transducer	Limit	Margin	Line	PE
MHz	dB μ V	dB	dB μ V	dB		
0.450750	38.8	9.7	46.9	8.1	L1	FLO
0.453806	38.5	9.7	46.8	8.3	L1	FLO
1.166880	34.3	9.7	46.0	11.7	L1	FLO
1.802194	31.1	9.7	46.0	14.9	L1	FLO
4.260708	33.6	9.8	46.0	12.4	L1	FLO
15.860865	43.1	10.0	50.0	6.9	L1	FLO

END