

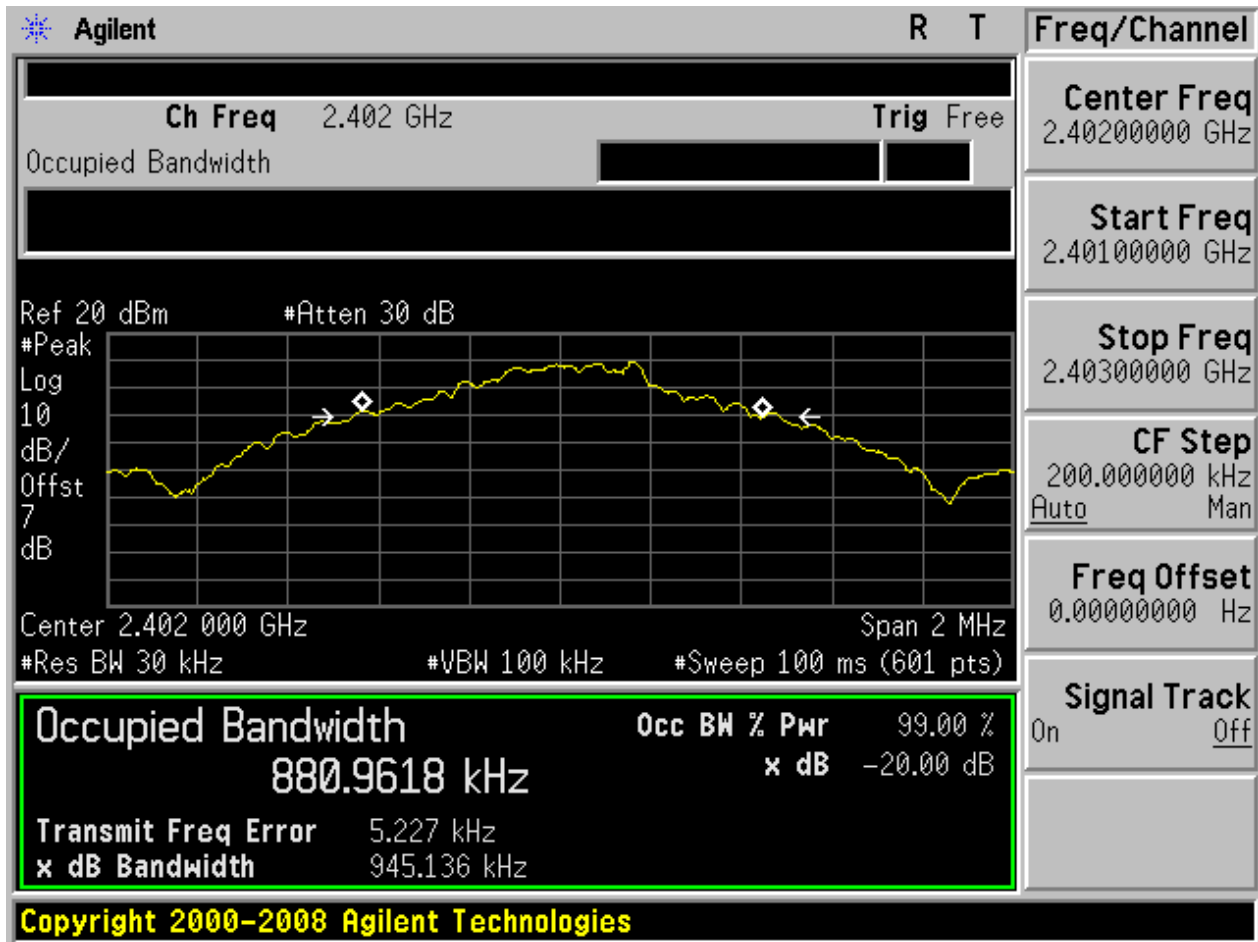
Appendix A: 20dB Emission Bandwidth (EBW)

1 Result Table

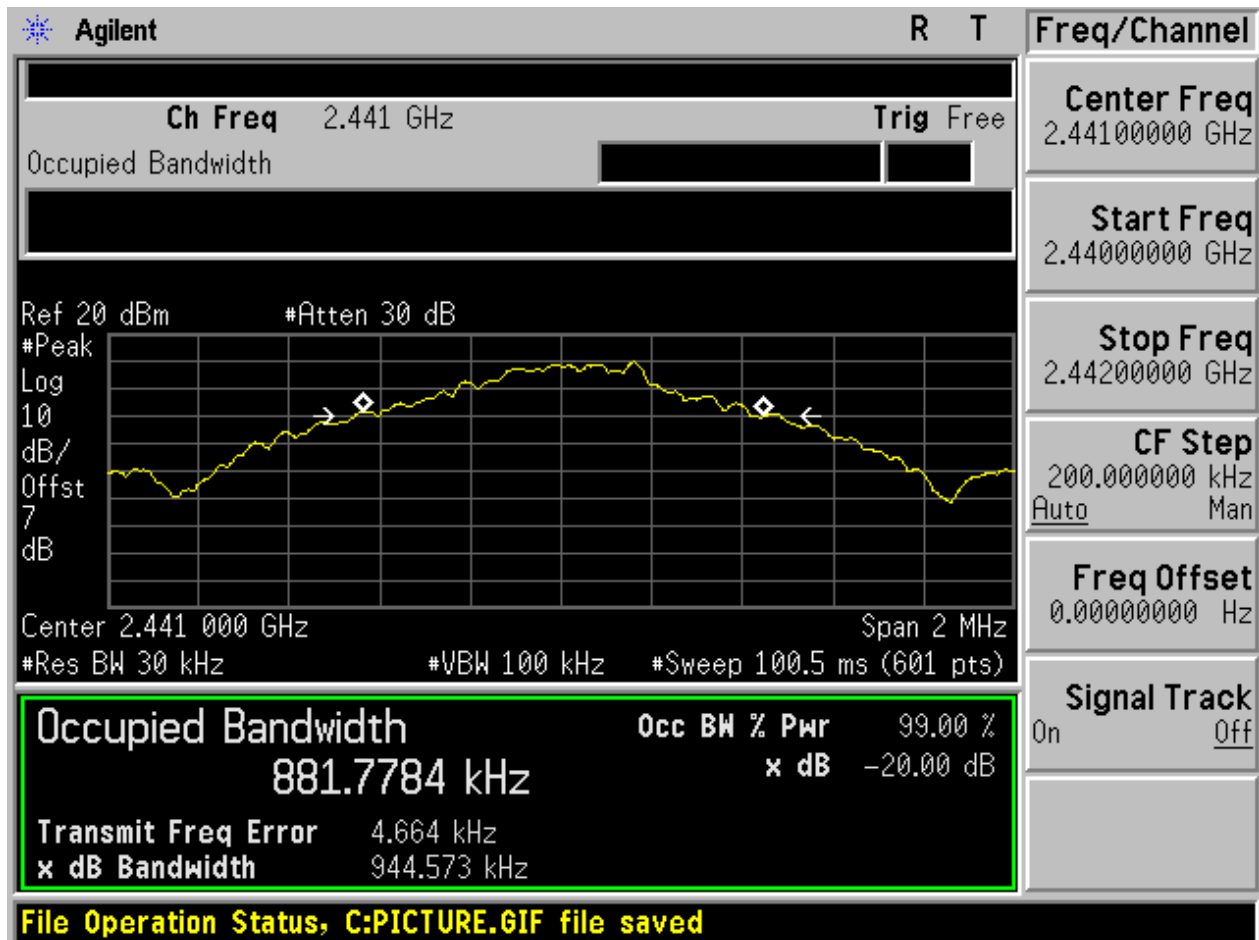
EUT Conf.	EBW [MHz]	Verdict
TM1_DH5_Ch0	0.945	Pass
TM1_DH5_Ch39	0.945	Pass
TM1_DH5_Ch78	0.945	Pass
TM2_2DH5_Ch0	1.284	Pass
TM2_2DH5_Ch39	1.284	Pass
TM2_2DH5_Ch78	1.283	Pass
TM3_3DH5_Ch0	1.278	Pass
TM3_3DH5_Ch39	1.278	Pass
TM3_3DH5_Ch78	1.279	Pass

2 Test Plot

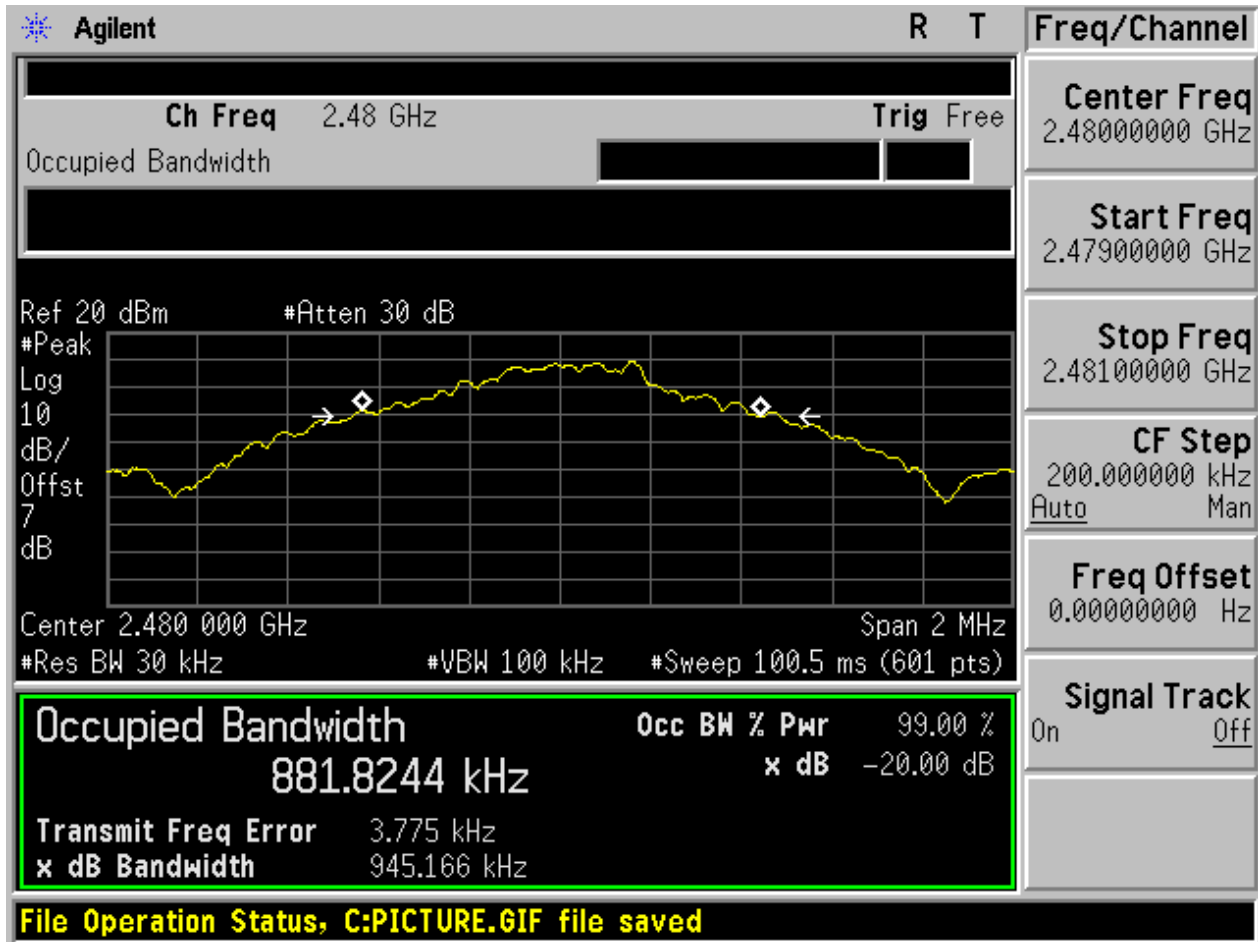
2.1 TM1_DH5_Ch0



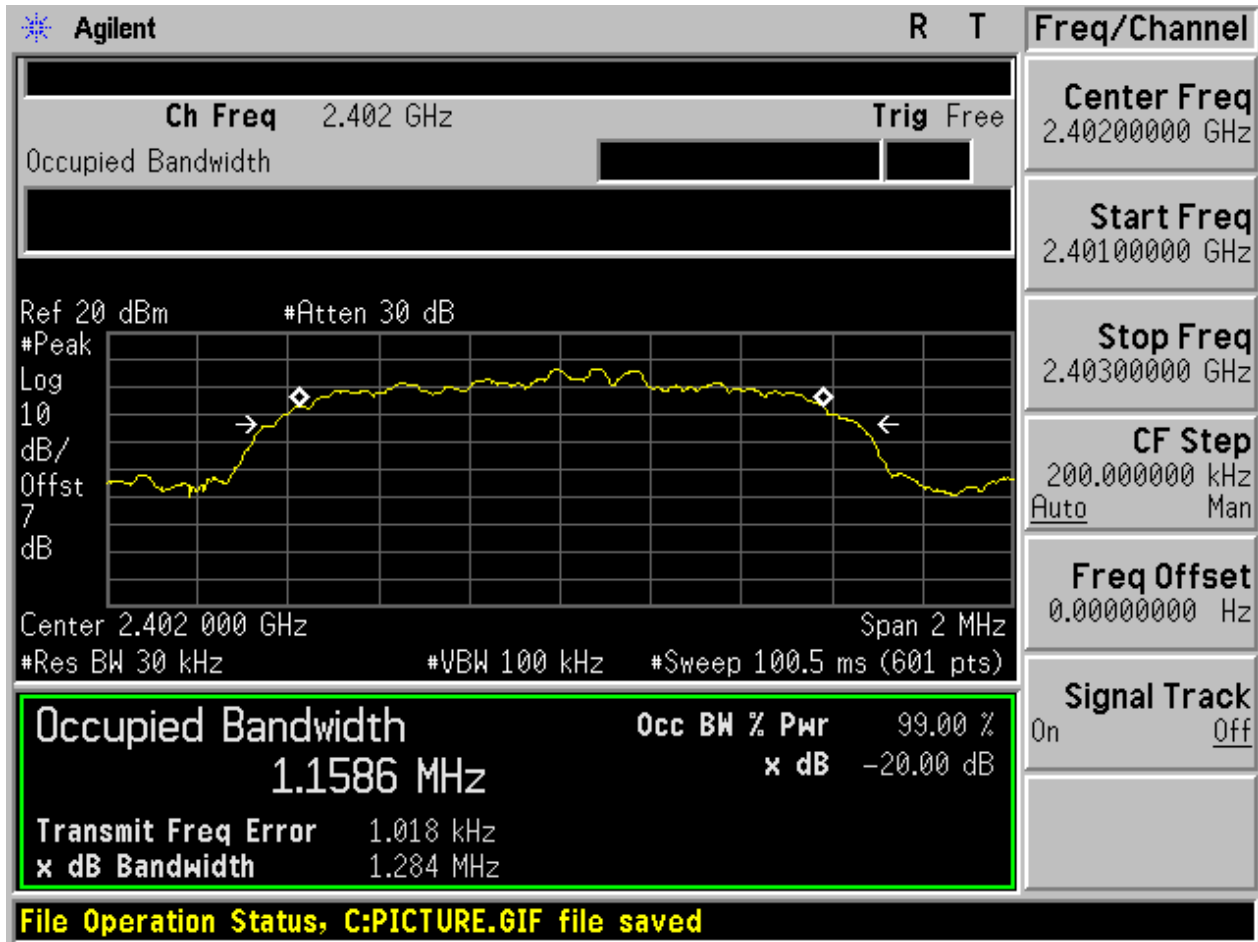
2.2 TM1_DH5_Ch39



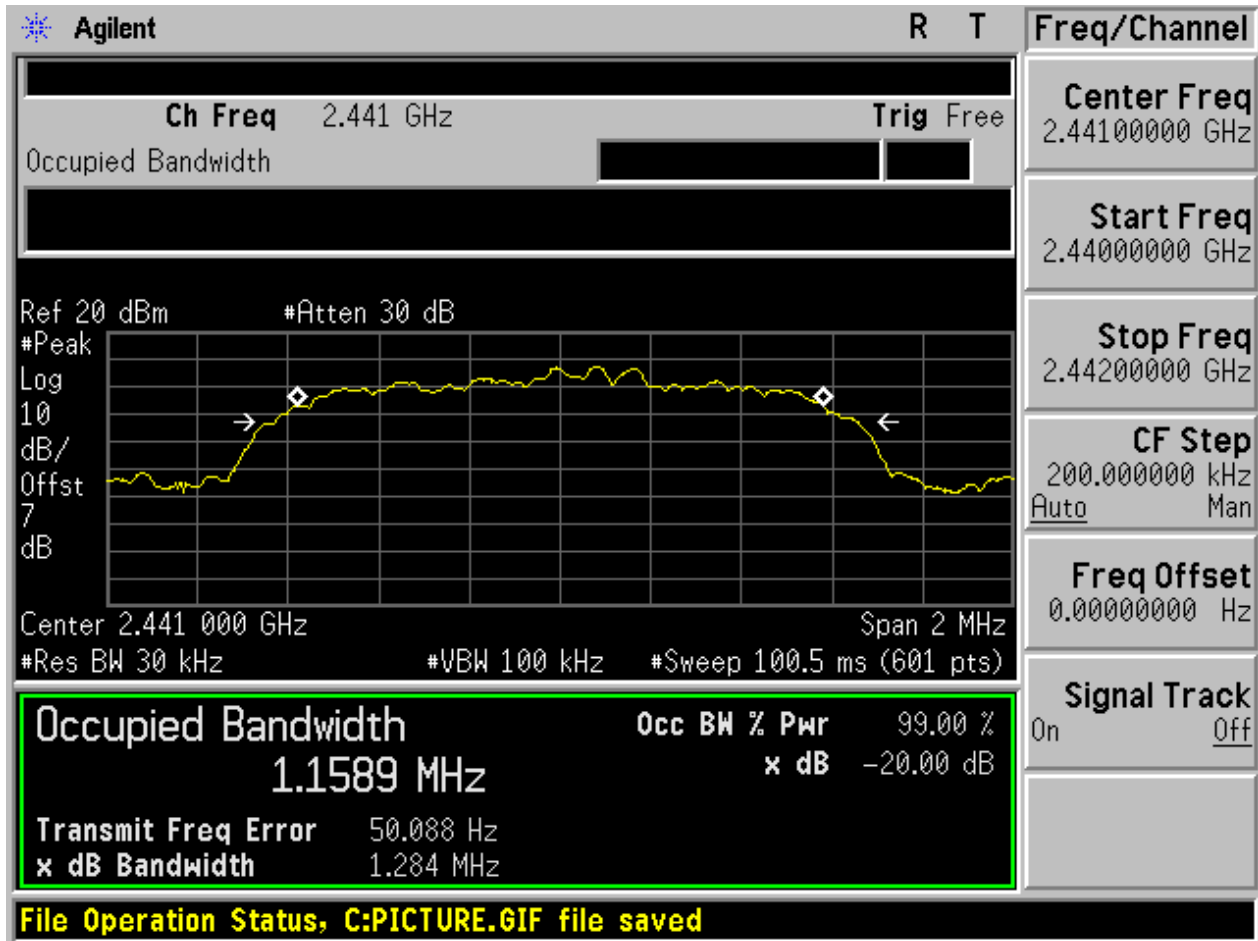
2.3 TM1_DH5_Ch78



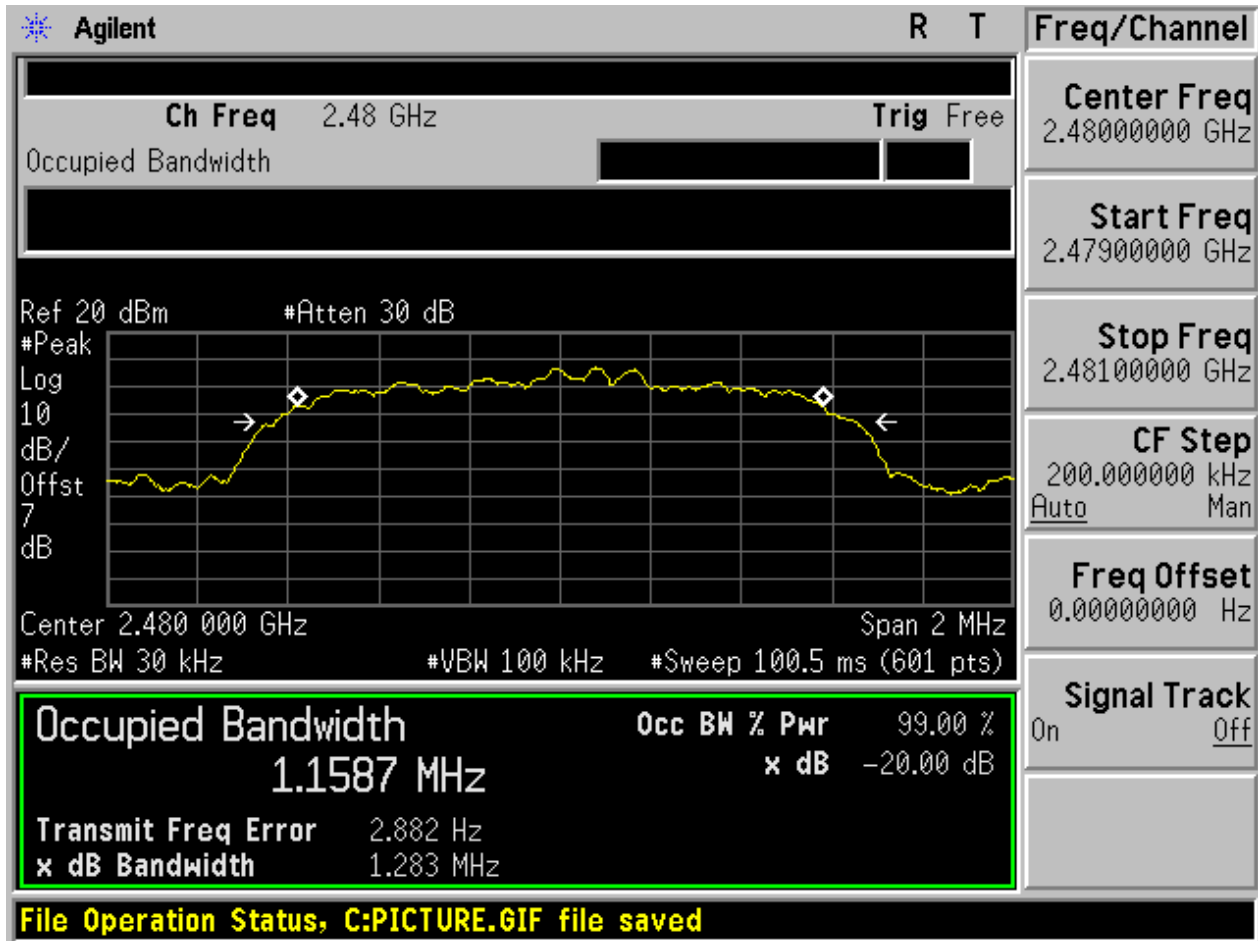
2.4 TM2_2DH5_Ch0



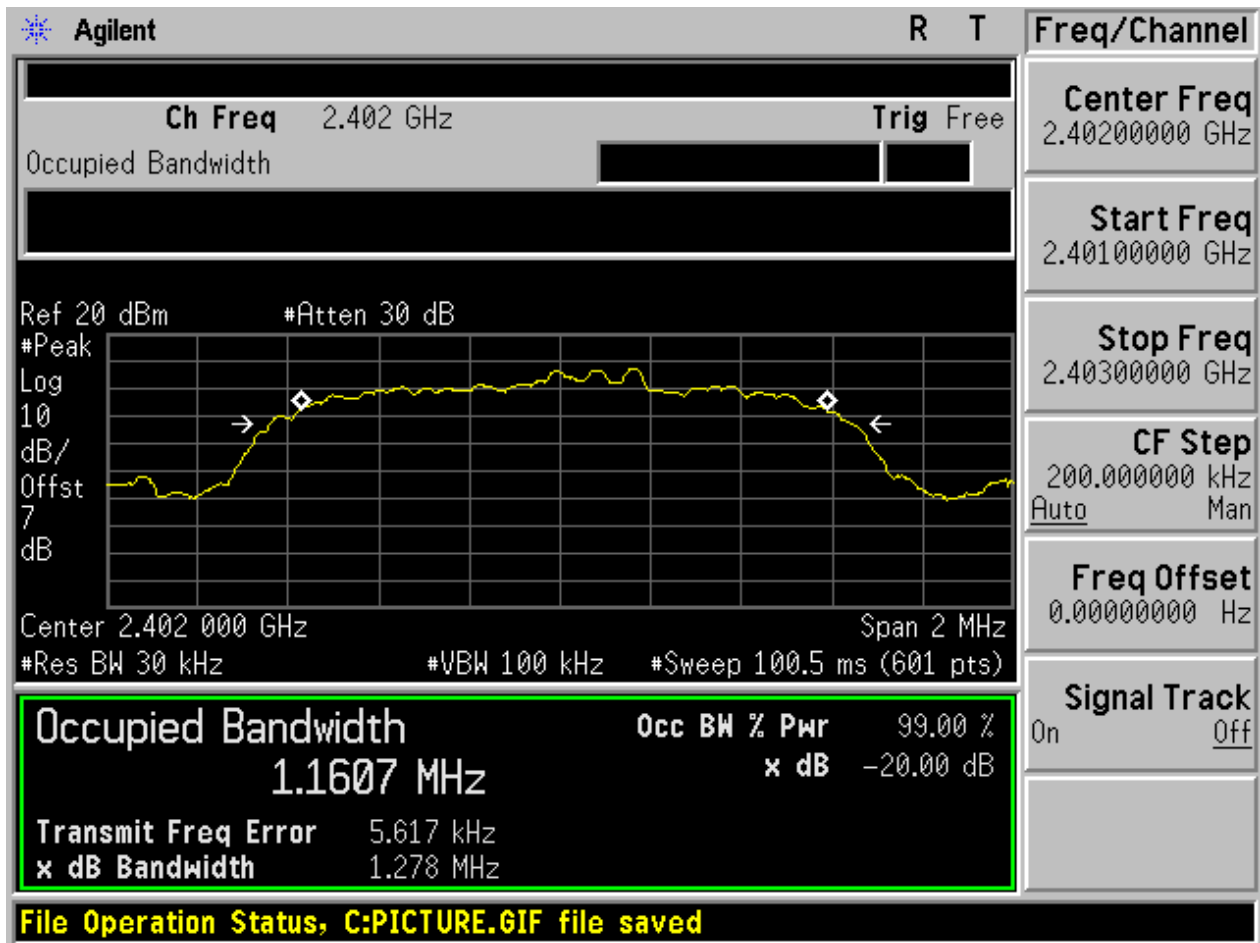
2.5 TM2_2DH5_Ch39



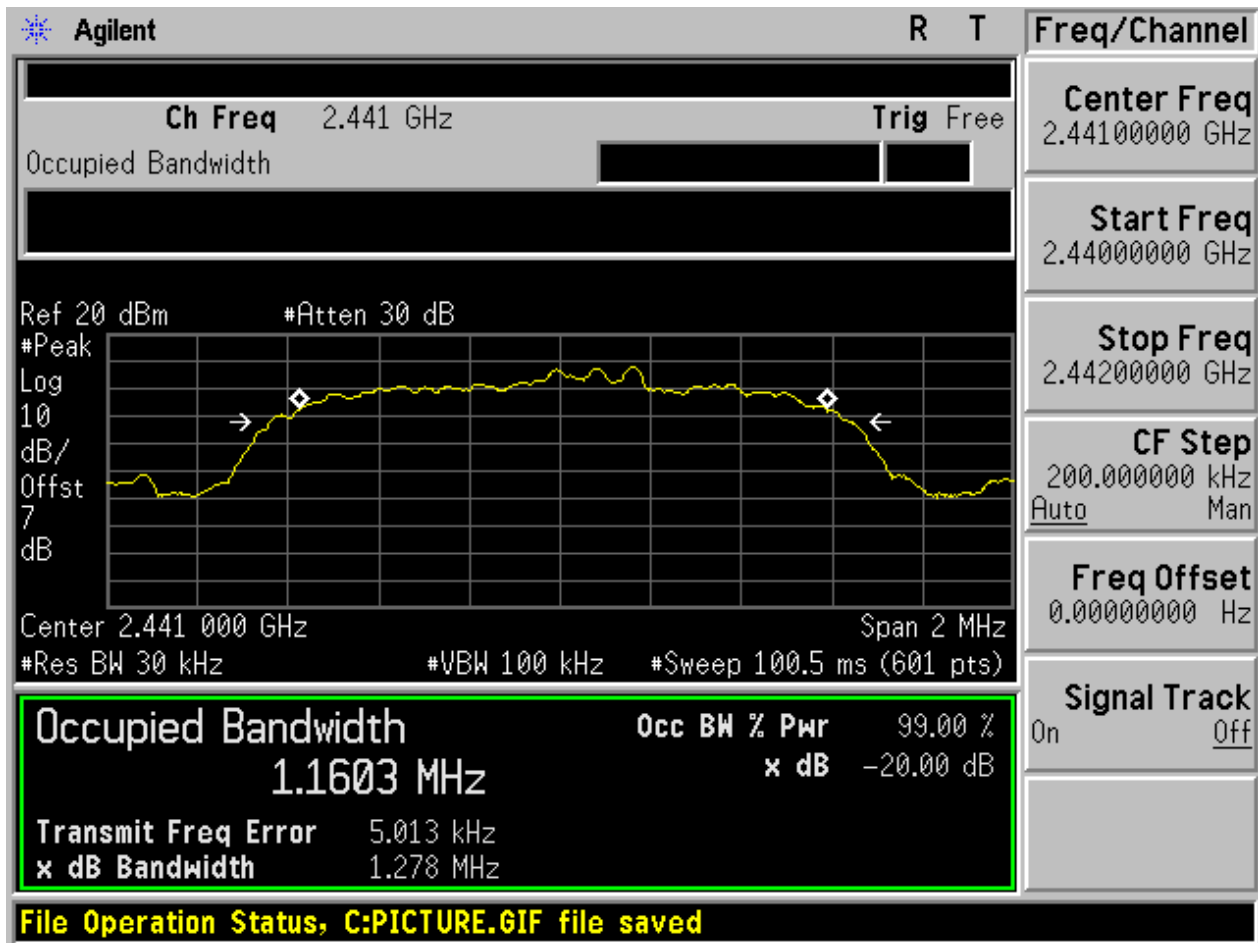
2.6 TM2_2DH5_Ch78



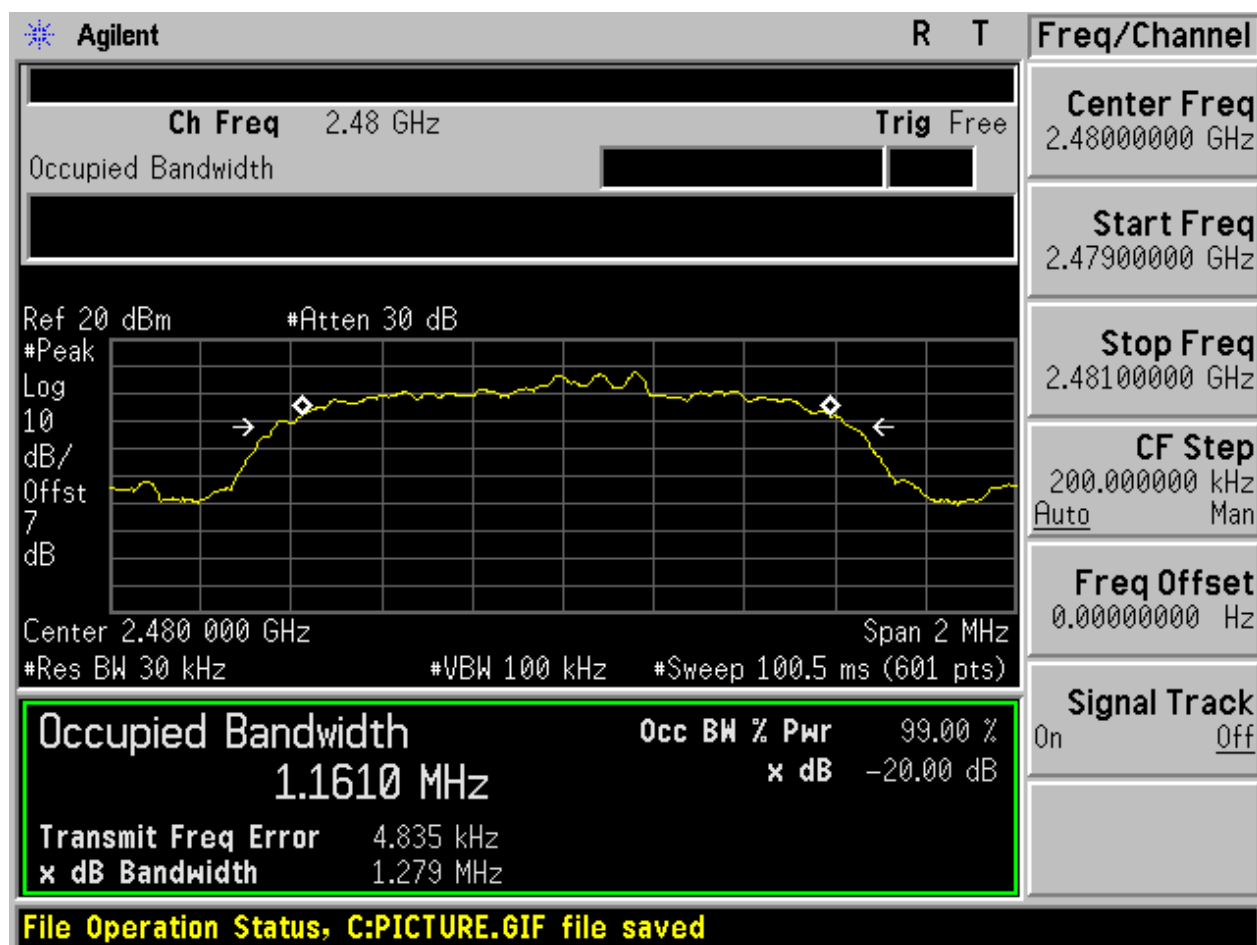
2.7 TM3_3DH5_Ch0



2.8 TM3_3DH5_Ch39



2.9 TM3_3DH5_Ch78



Appendix B: Carrier Frequency Separation

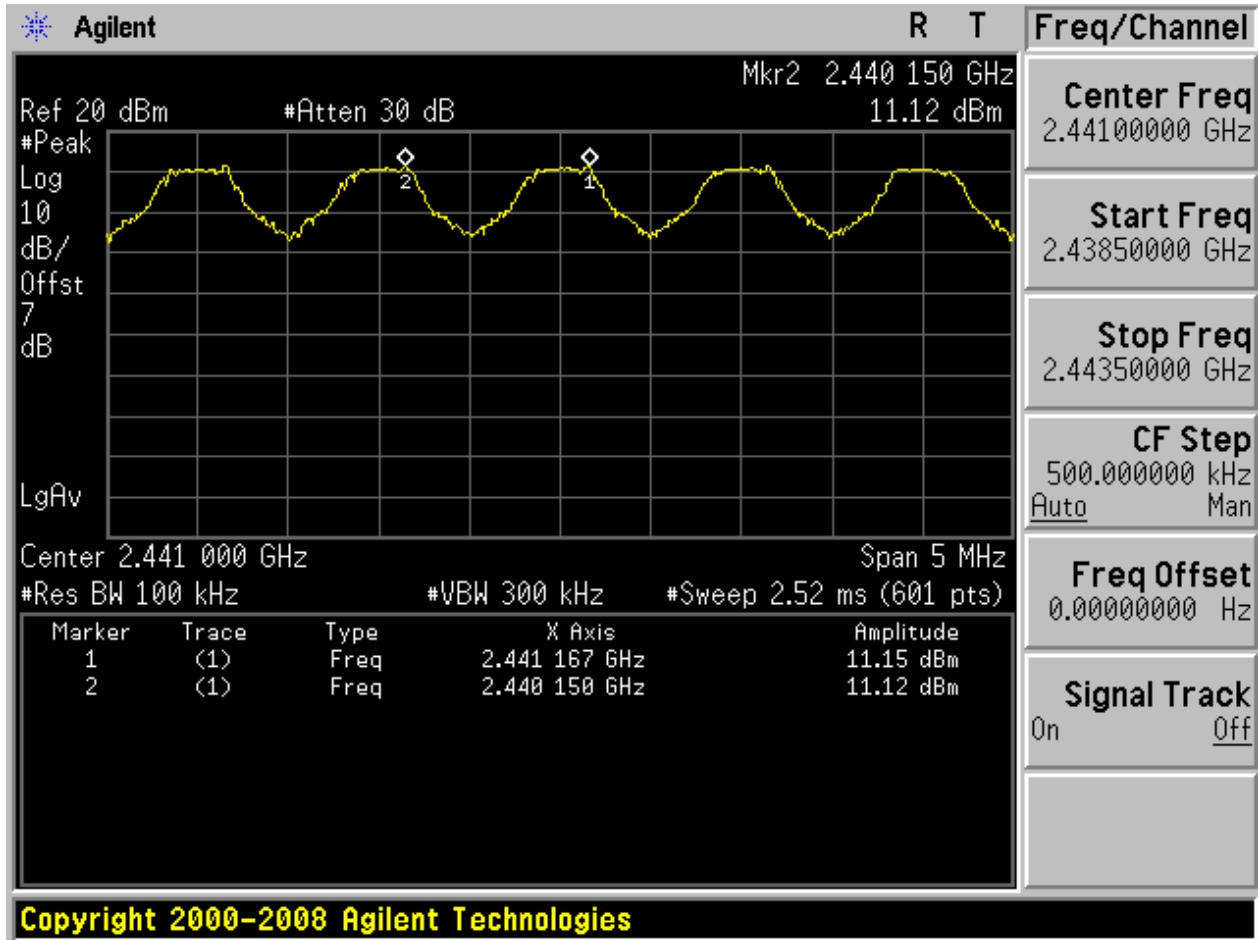


1 Result Table

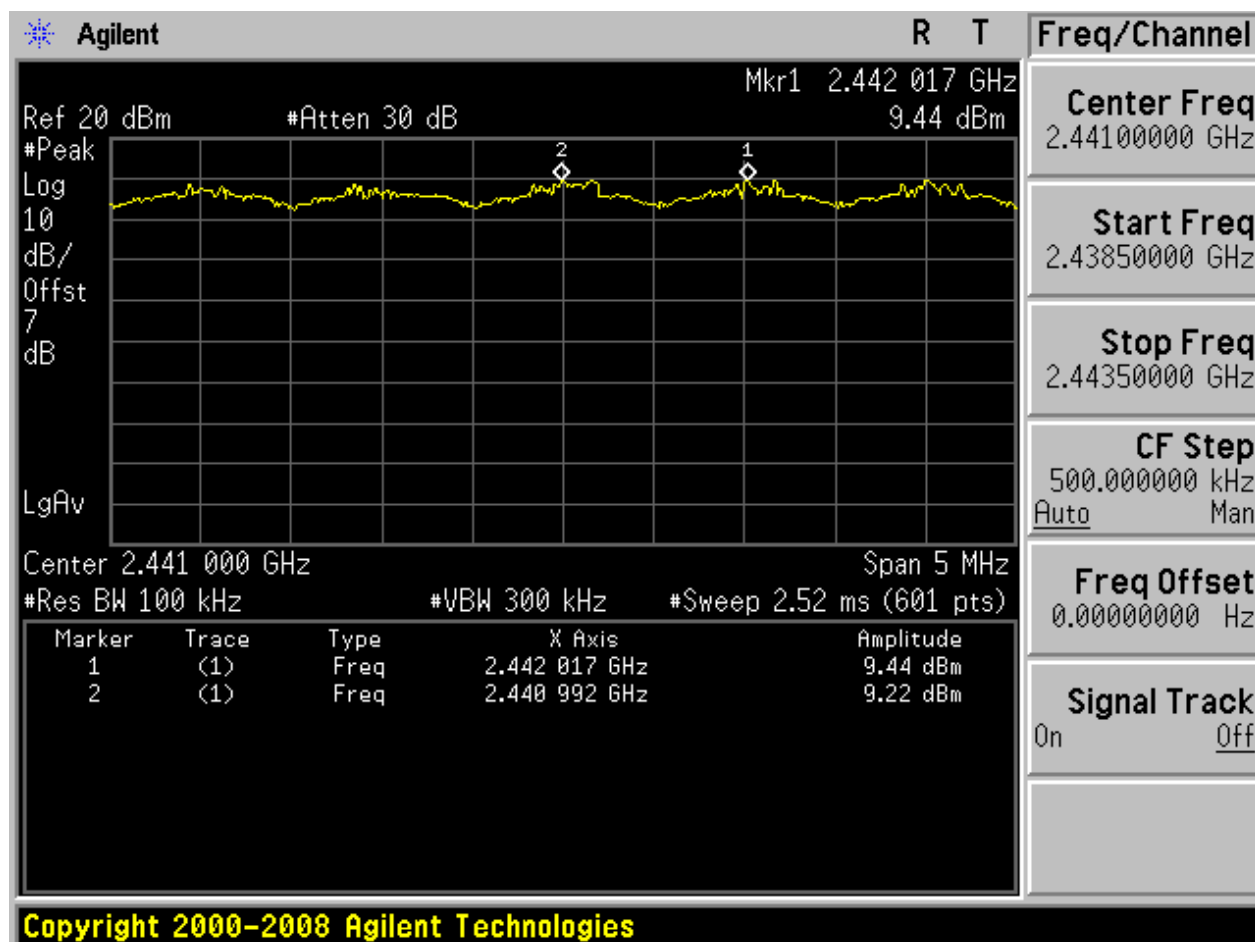
EUT Conf.	Carrier Frequency Separation [MHz]	Verdict
TM1_DH5_Hop	1.017	Pass
TM2_2DH5_Hop	1.025	Pass
TM3_3DH5_Hop	1.100	Pass

2 Test Plot

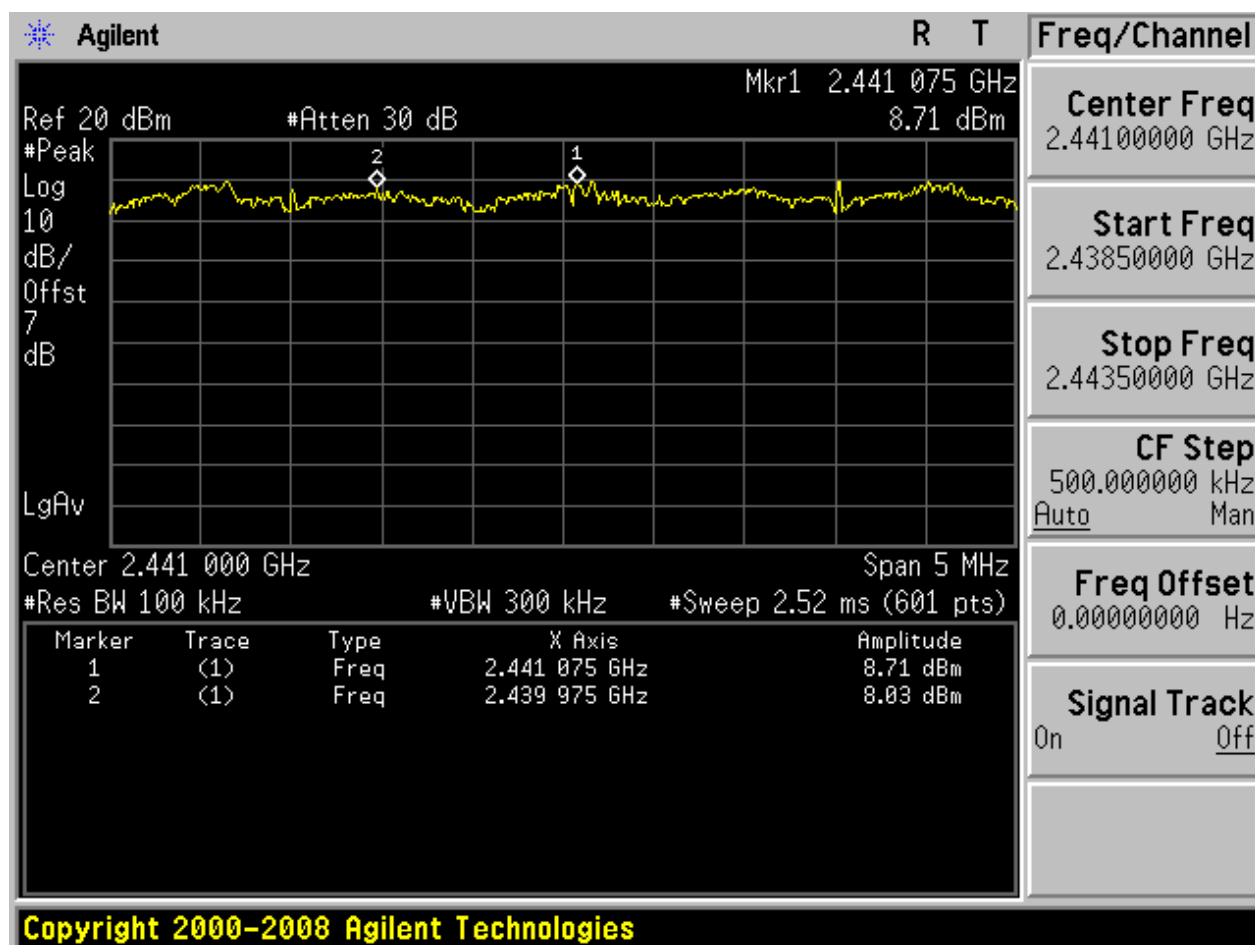
2.1 TM1_DH5_Hop



2.2 TM2_2DH5_Hop



2.3 TM3_3DH5_Hop



Appendix C: Number of Hopping Channel

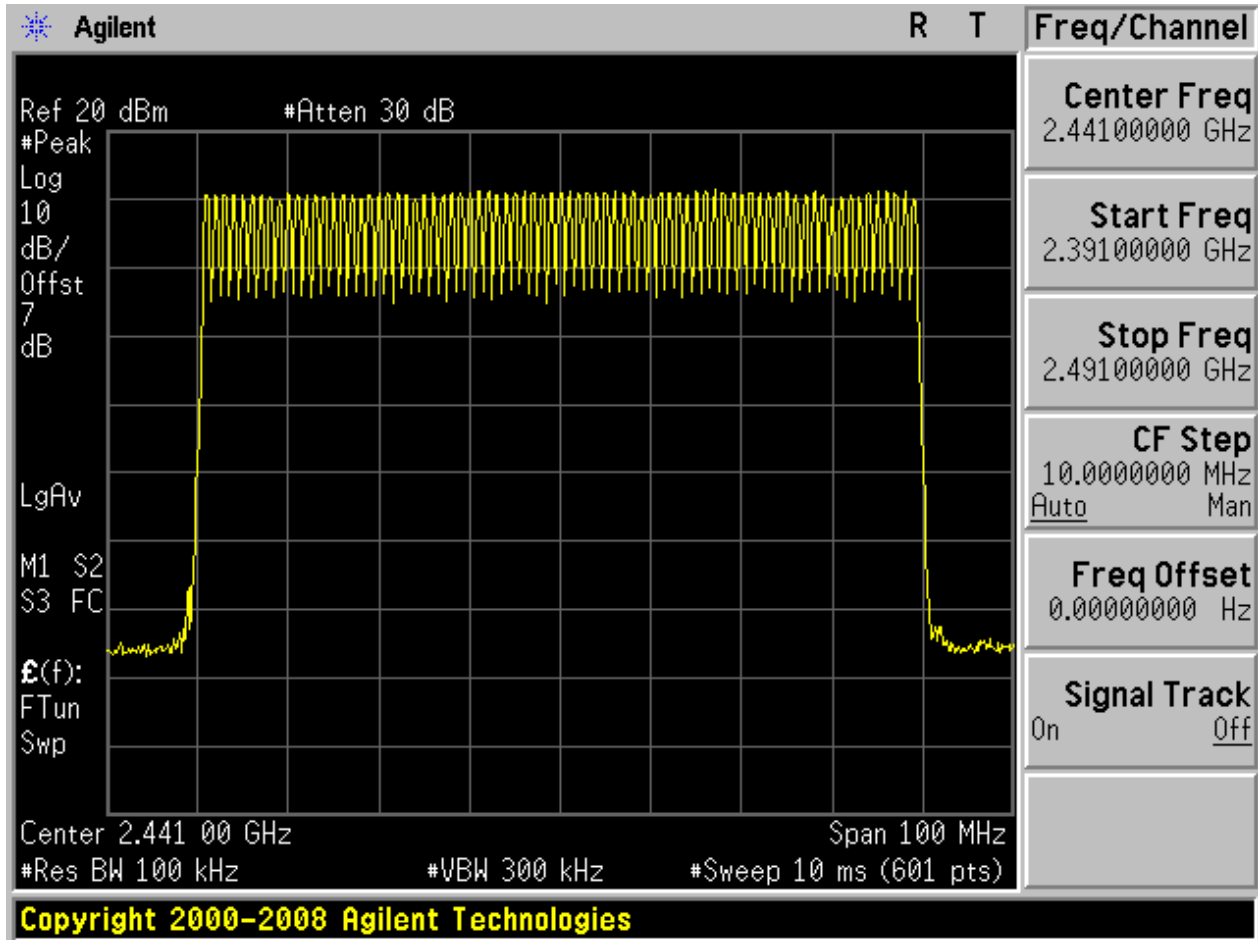


1 Result Table

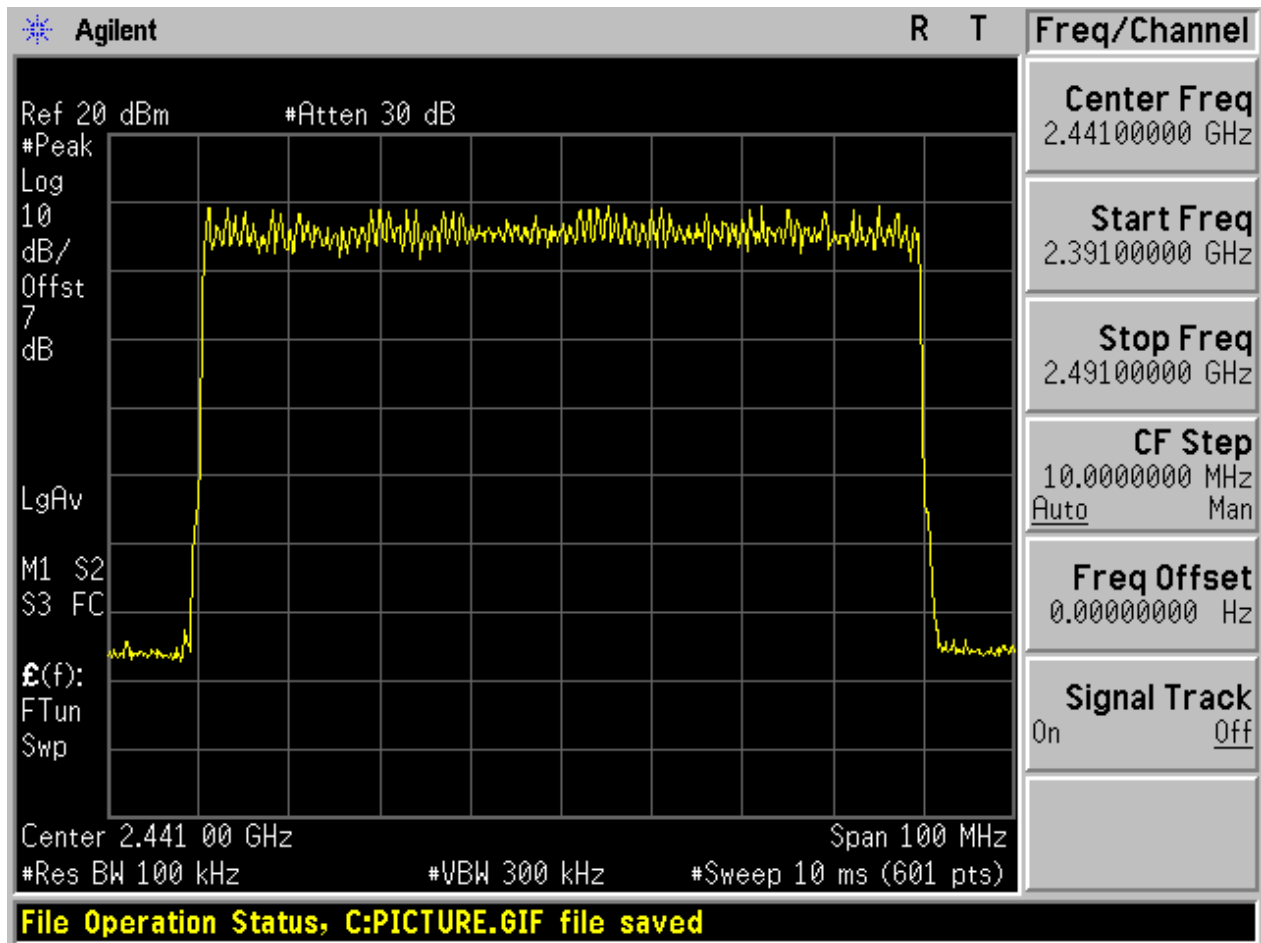
EUT Conf.	Number of Hopping Channel	Verdict
TM1_DH5_Hop	79	Pass
TM2_2DH5_Hop	79	Pass
TM3_3DH5_Hop	79	Pass

2 Test Plot

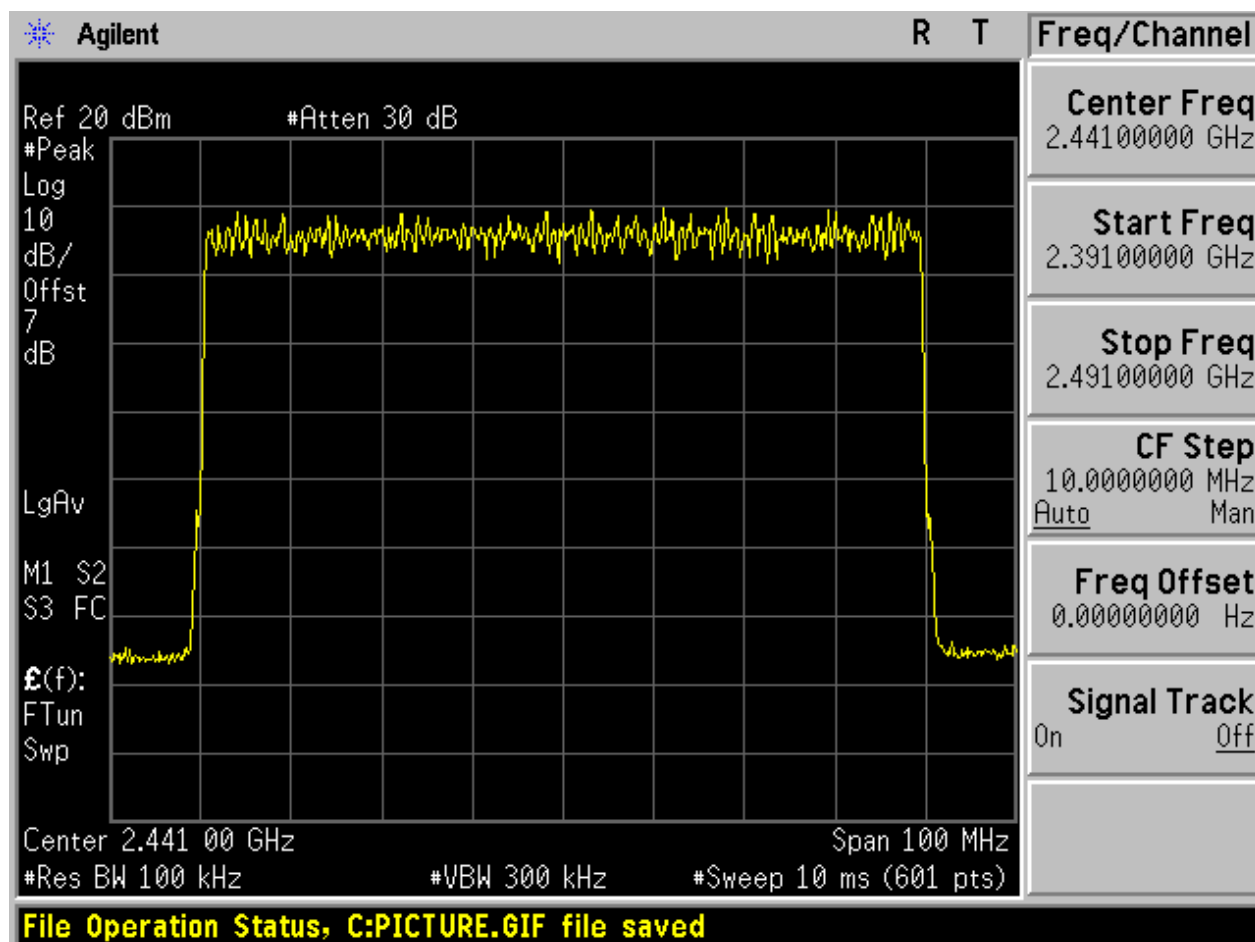
2.1 TM1_DH5_Hop



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:

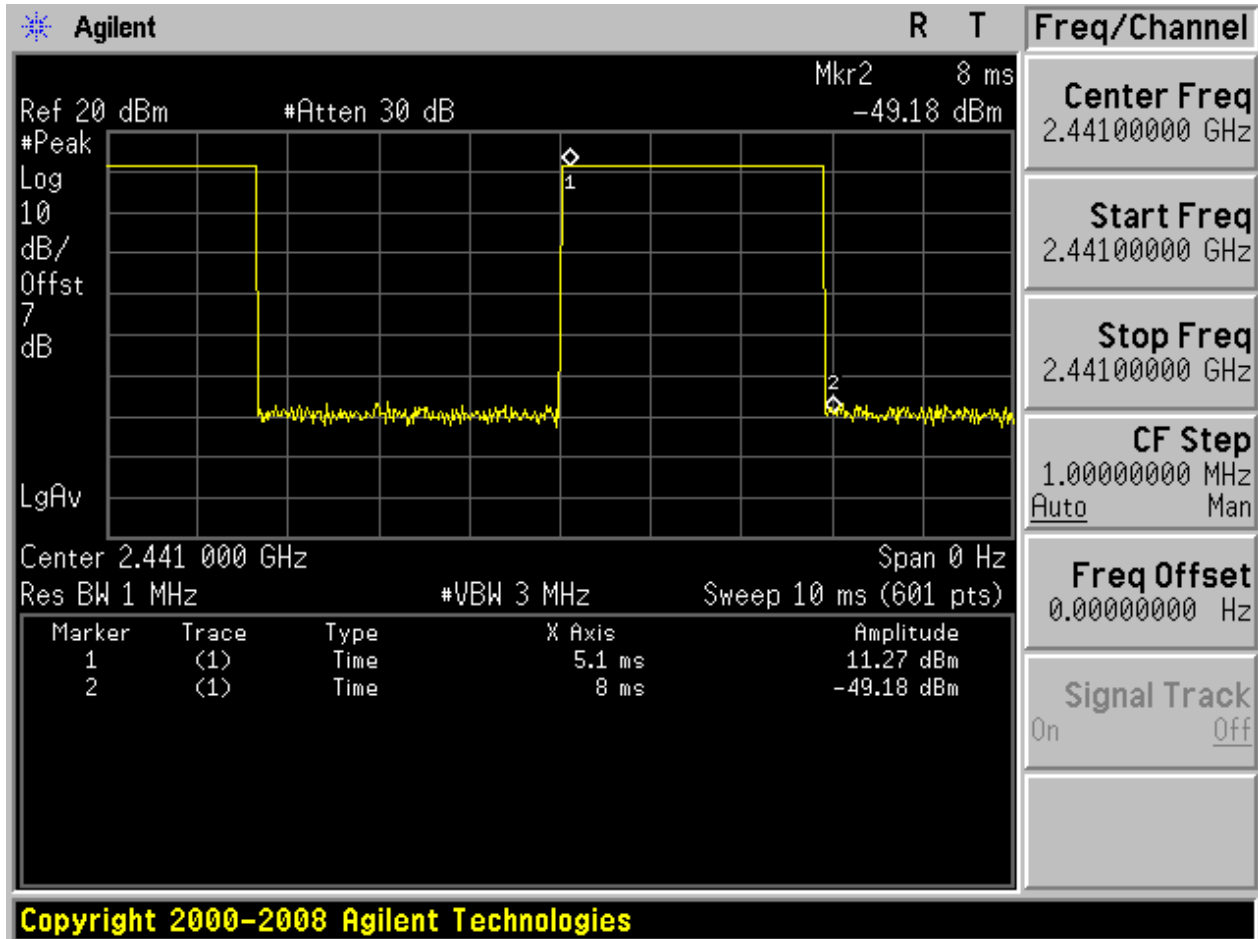
- The duration for dwell time calculation: $0.4 \text{ [s]} * \text{hopping number} = 0.4 \text{ [s]} * 79 \text{ [ch]} = 31.6 \text{ [s*ch]}$;
- The burst width [ms/hop/ch], which is directly measured, refers to the duration on one channel hop.
- The hops per second for all channels: The selected EUT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

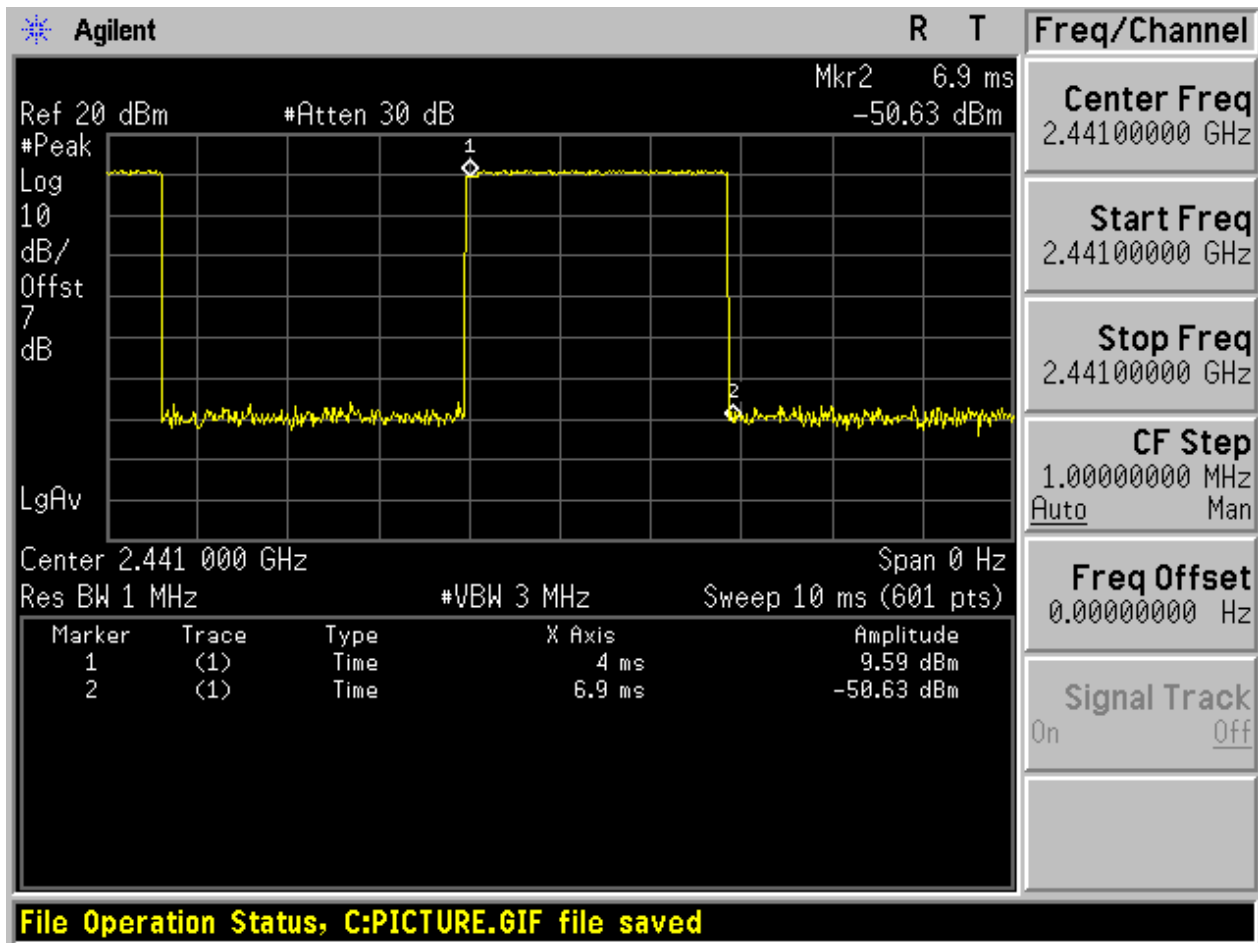
2 Test Plot

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

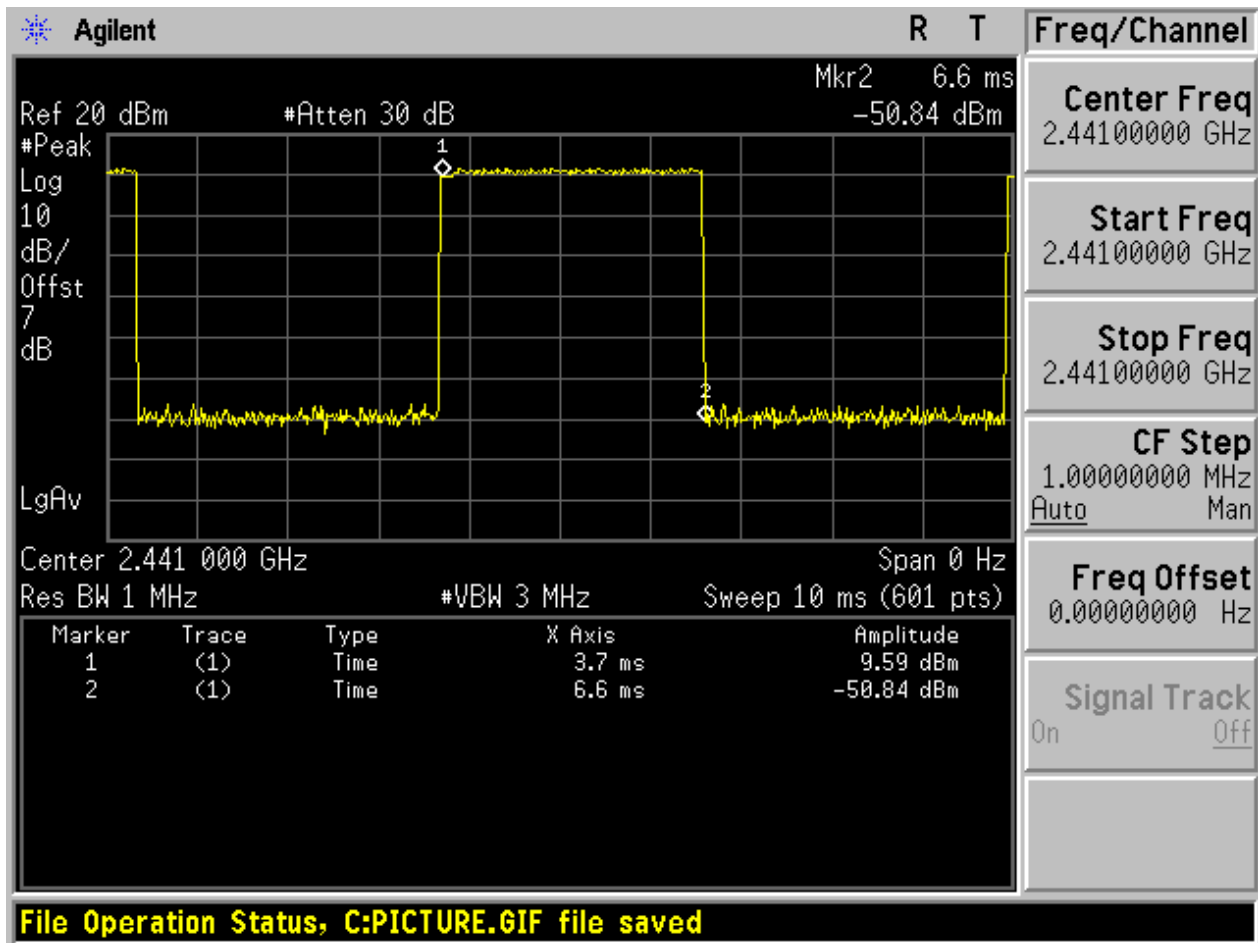
2.1 TM1_DH5_Ch39



2.2 TM2_2DH5_Ch39



2.3 TM3_3DH5_Ch39



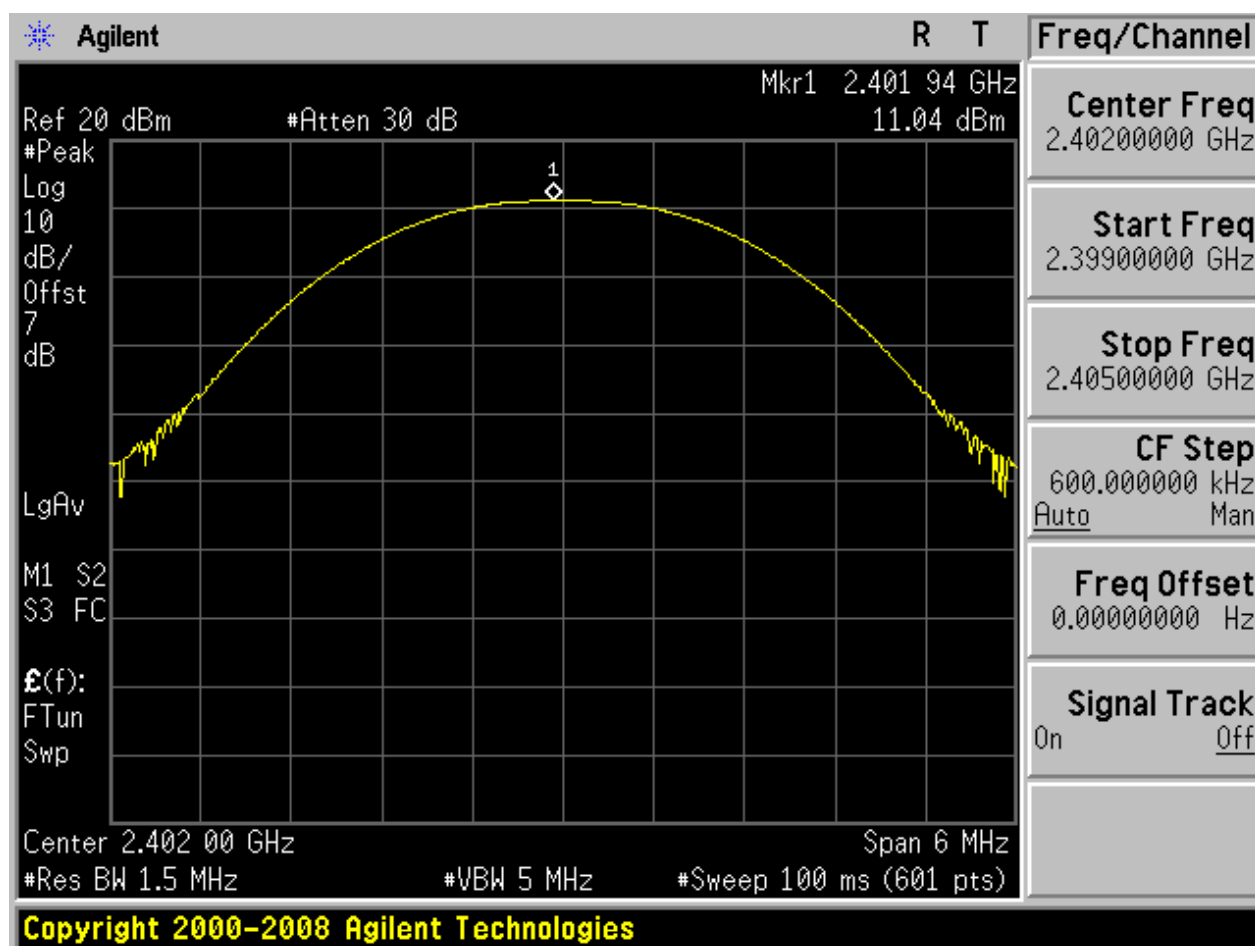
Appendix E: Maximum Peak Conducted Output Power

1 Result Table

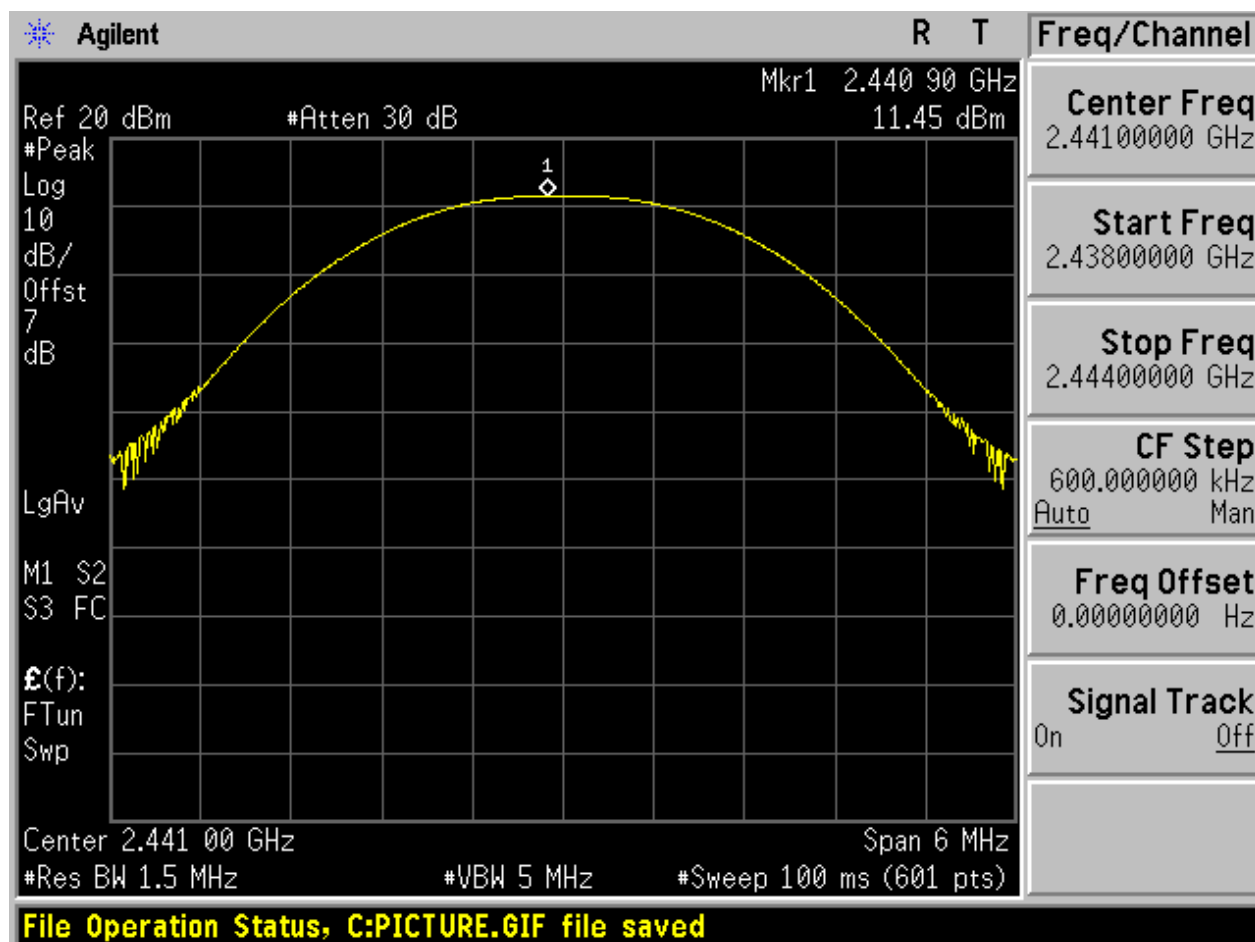
EUT Conf.	Max. Peak Power [dBm]	Verdict
TM1_DH5_Ch0	11.04	Pass
TM1_DH5_Ch39	11.45	Pass
TM1_DH5_Ch78	11.12	Pass
TM2_2DH5_Ch0	11.03	Pass
TM2_2DH5_Ch39	11.43	Pass
TM2_2DH5_Ch78	11.1	Pass
TM3_3DH5_Ch0	11.3	Pass
TM3_3DH5_Ch39	11.7	Pass
TM3_3DH5_Ch78	11.37	Pass

2 Test Plot

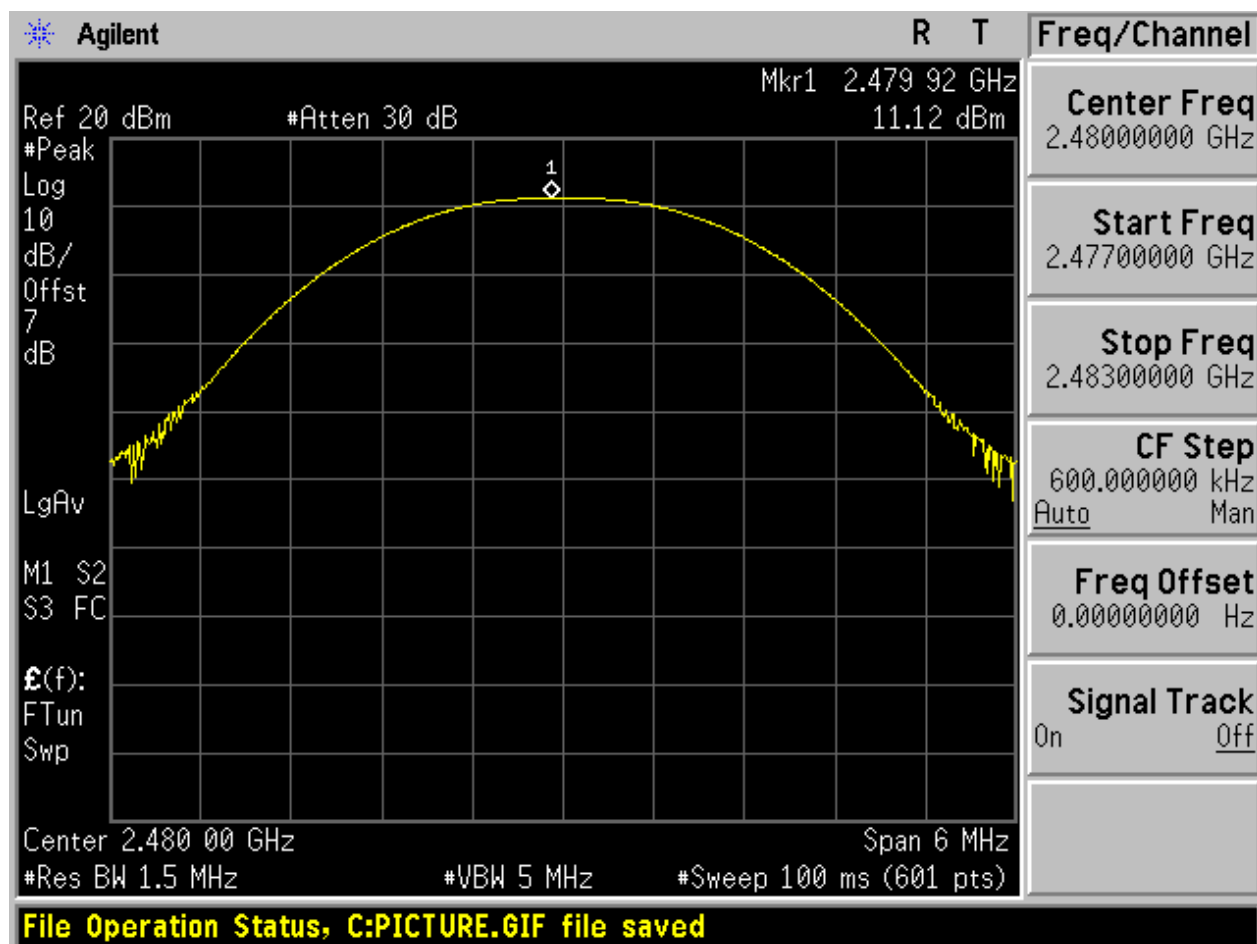
2.1 TM1_DH5_Ch0



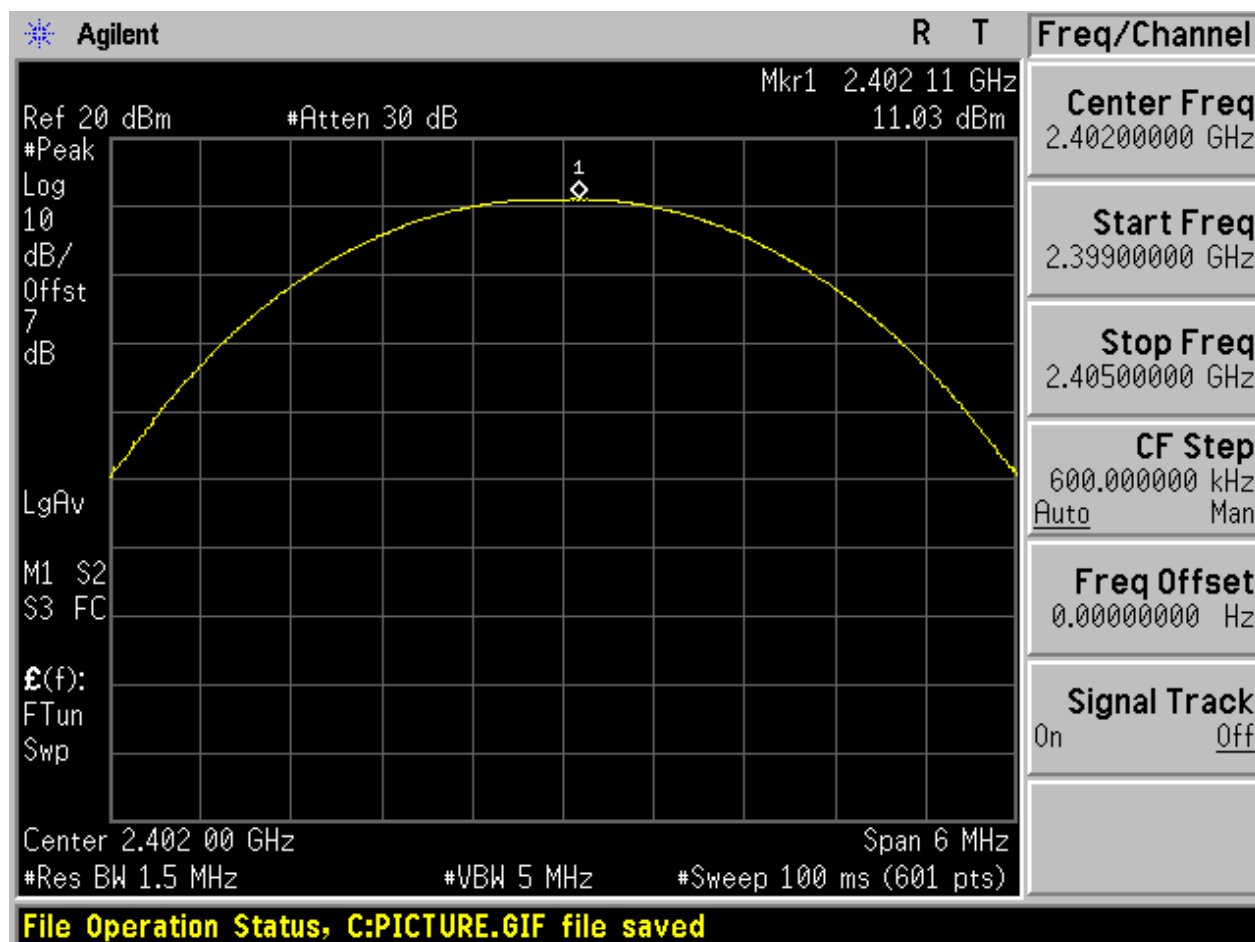
2.2 TM1_DH5_Ch39



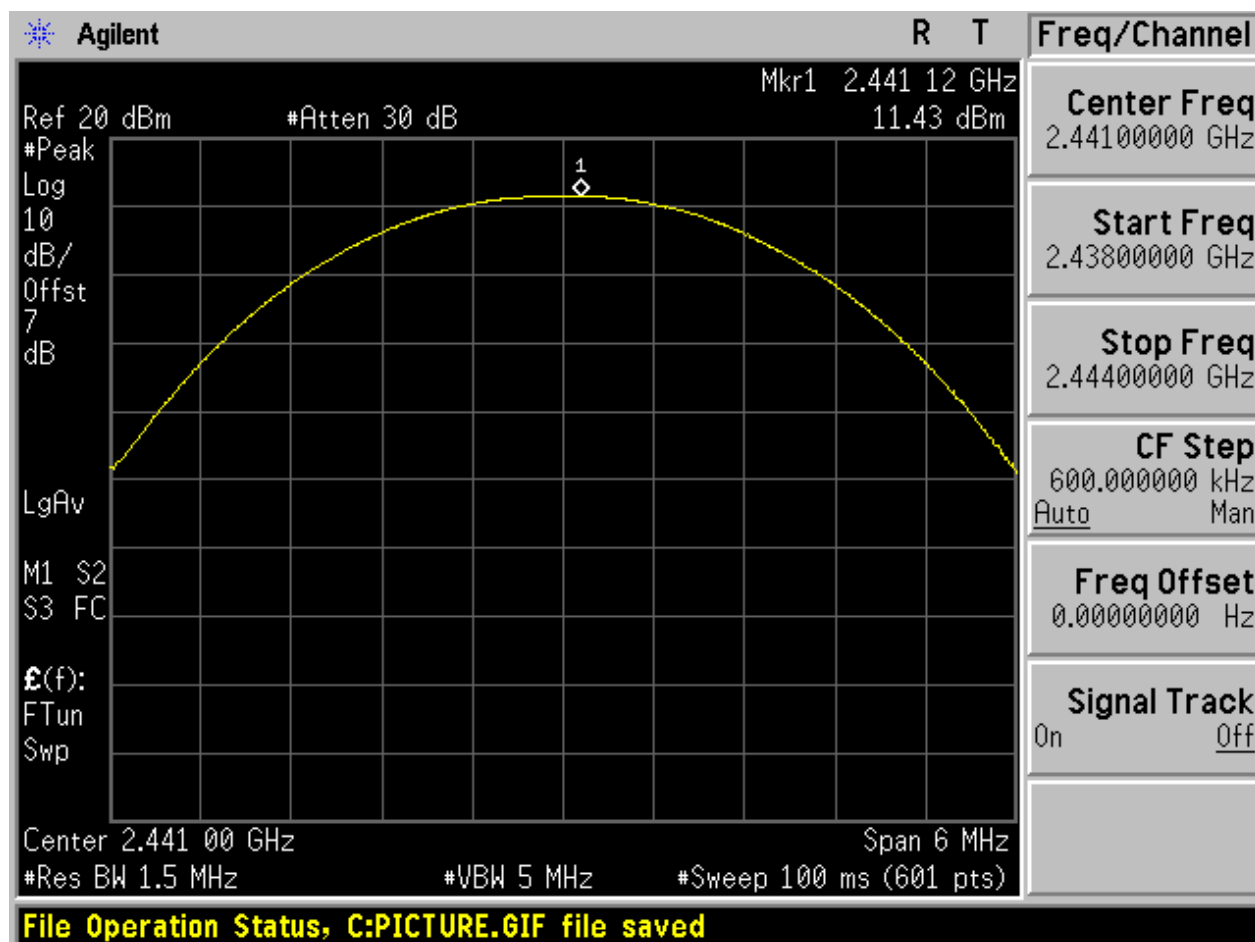
2.3 TM1_DH5_Ch78



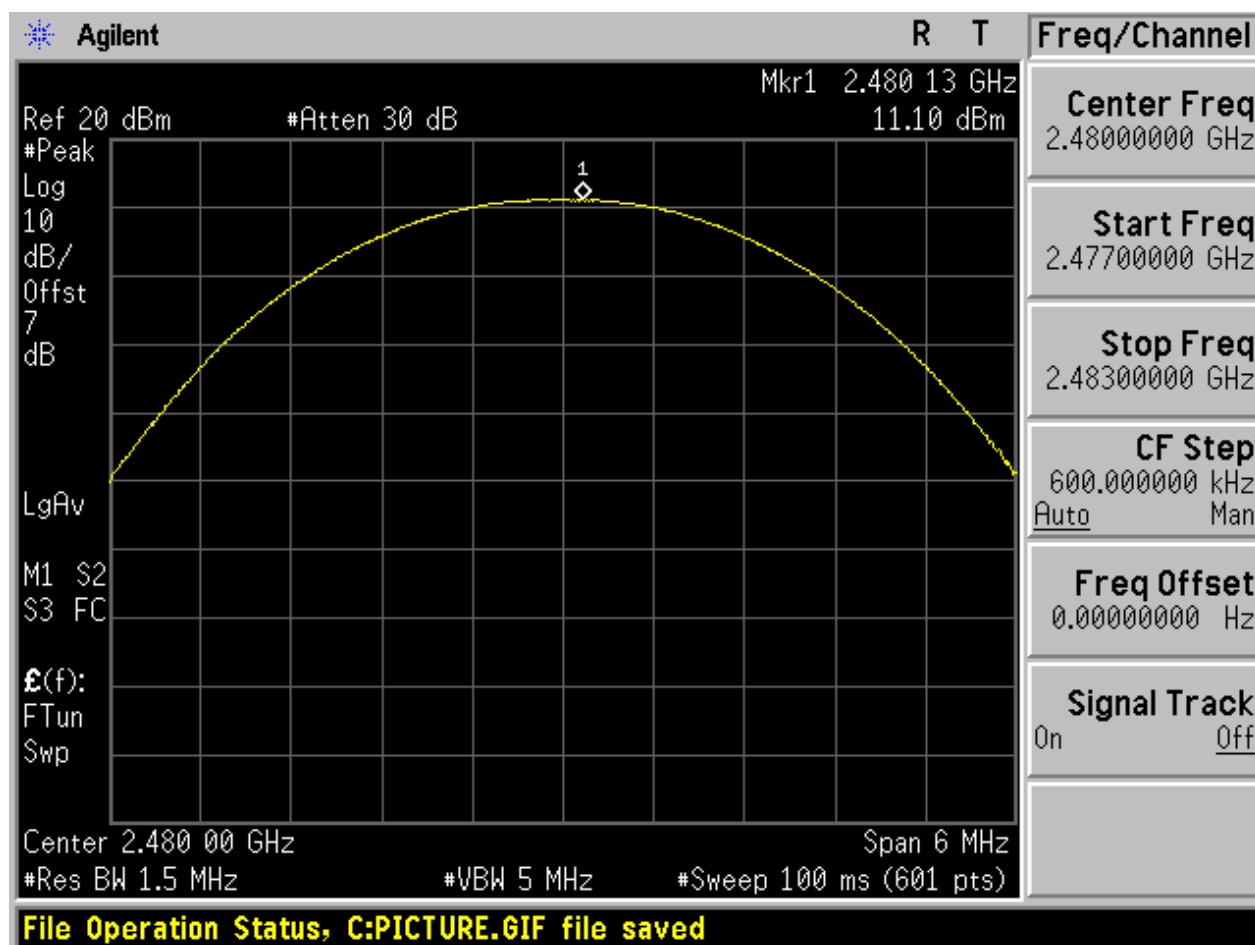
2.4 TM2_2DH5_Ch0



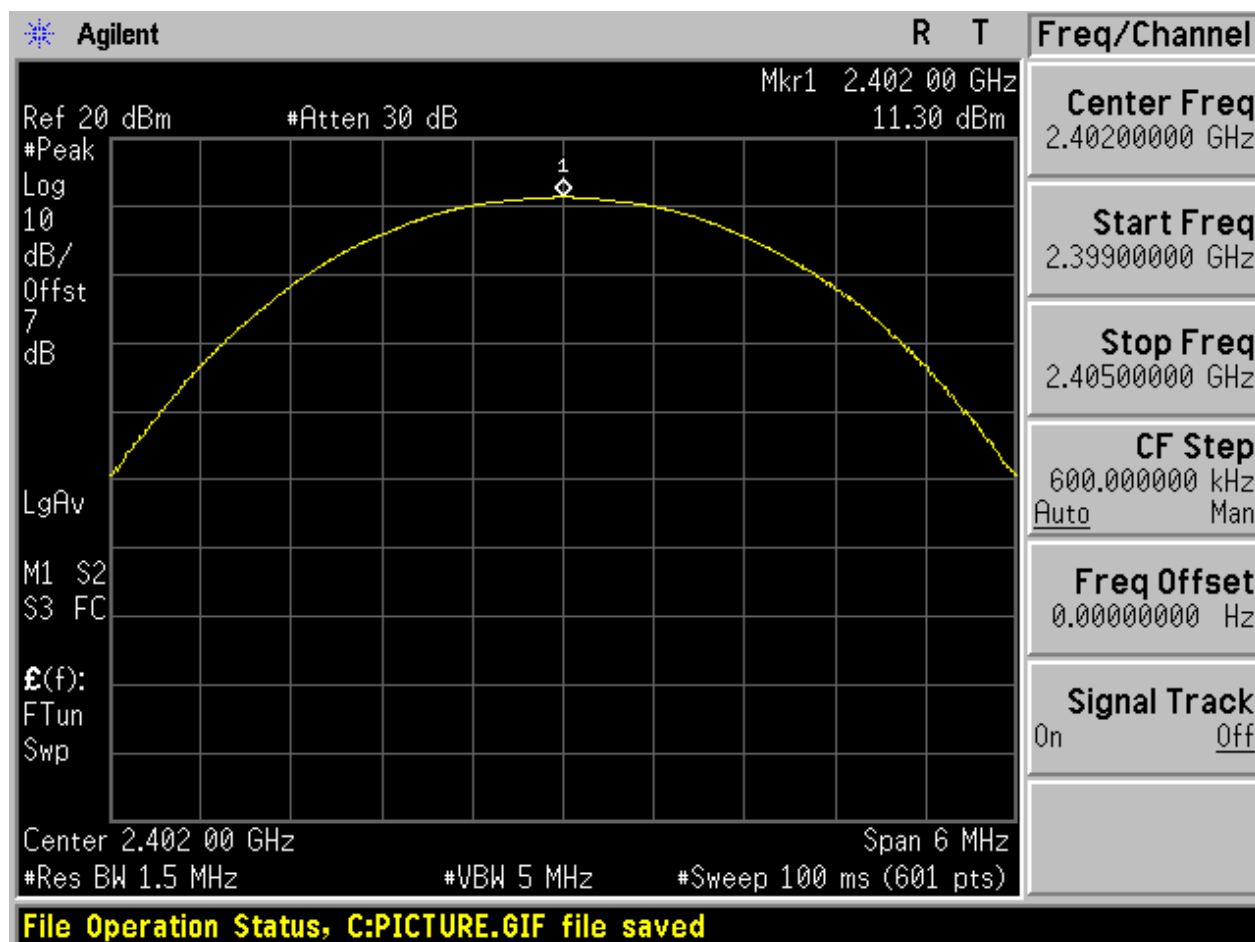
2.5 TM2_2DH5_Ch39



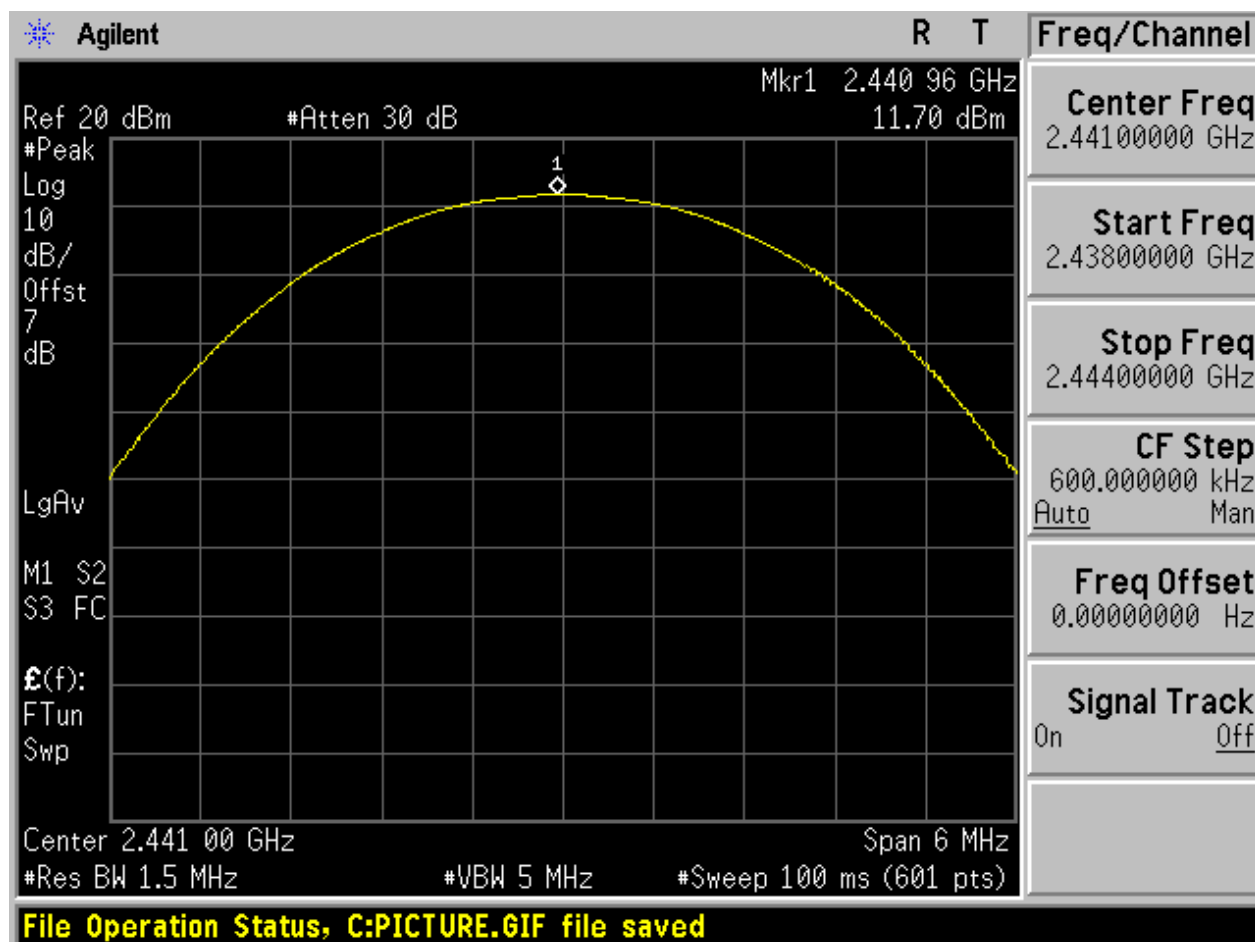
2.6 TM2_2DH5_Ch78



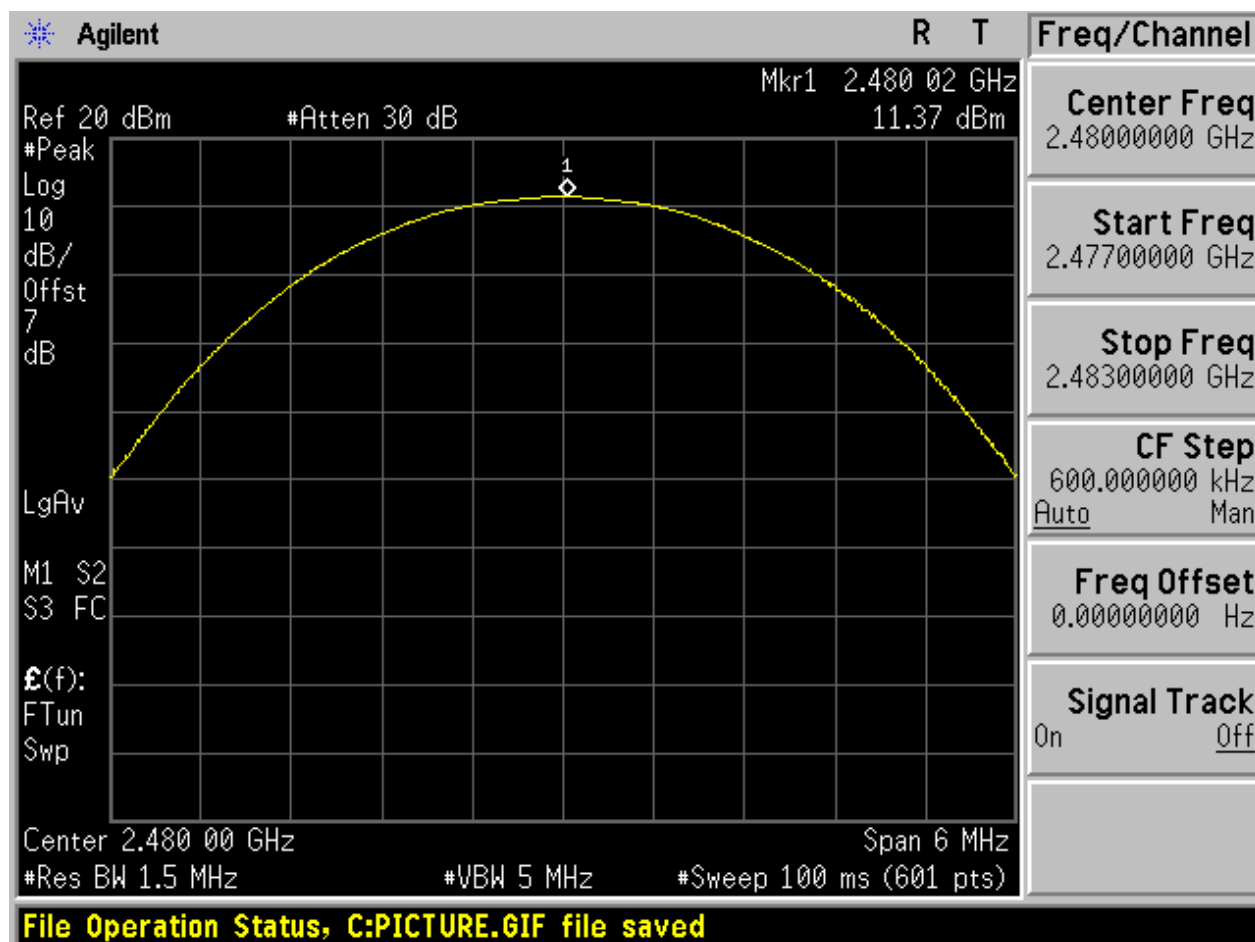
2.7 TM3_3DH5_Ch0



2.8 TM3_3DH5_Ch39



2.9 TM3_3DH5_Ch78



Appendix F: Band edge spurious emission

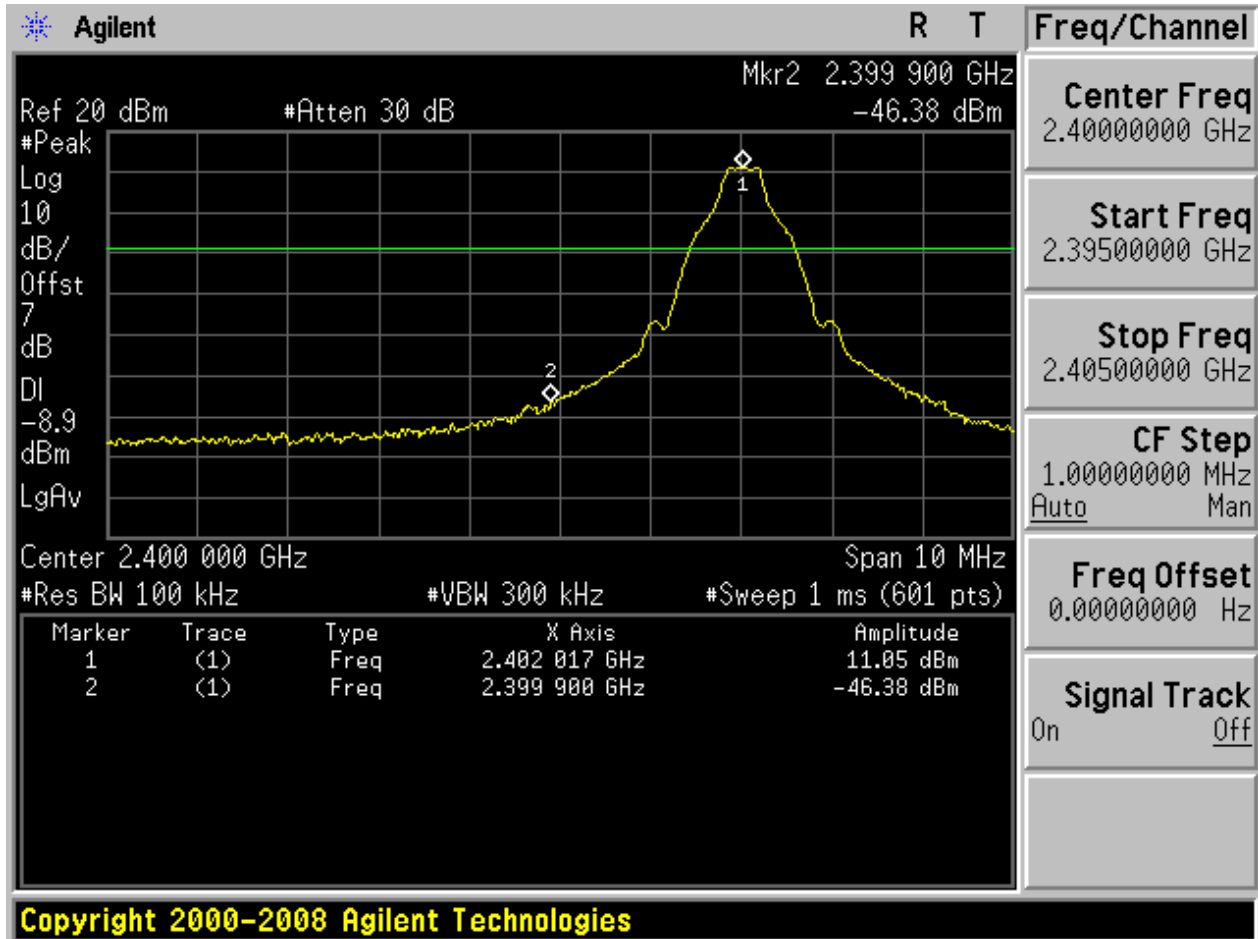
1 Result Table

EUT Conf.	Channel No.	Carrier Frequency [MHz]	Max. Spurious Level [dBm]	Frequency Hopping	Carrier Power [dBm]	Limit [dBm]	Result
TM1_DH5_Ch0	0	2402	-46.38	Off	11.05	-8.95	Pass
	-	-	-52.57	On	10.67	-9.33	Pass
TM1_DH5_Ch78	78	2480	-53.44	Off	11.09	-8.91	Pass
	-	-	-54.8	On	10.71	-9.29	Pass
TM2_2DH5_Ch0	0	2402	-47.38	Off	9.25	-10.75	Pass
	-	-	-52.96	On	8.67	-11.33	Pass
TM2_2DH5_Ch78	78	2480	-53.29	Off	9.31	-10.69	Pass
	-	-	-53.48	On	9.24	-10.76	Pass
TM3_3DH5_Ch0	0	2402	-48.94	Off	9.27	-10.73	Pass
	-	-	-53.4	On	8.09	-11.91	Pass
TM3_3DH5_Ch78	78	2480	-54.01	Off	9.26	-10.74	Pass
	-	-	-54.42	On	8.60	-11.4	Pass

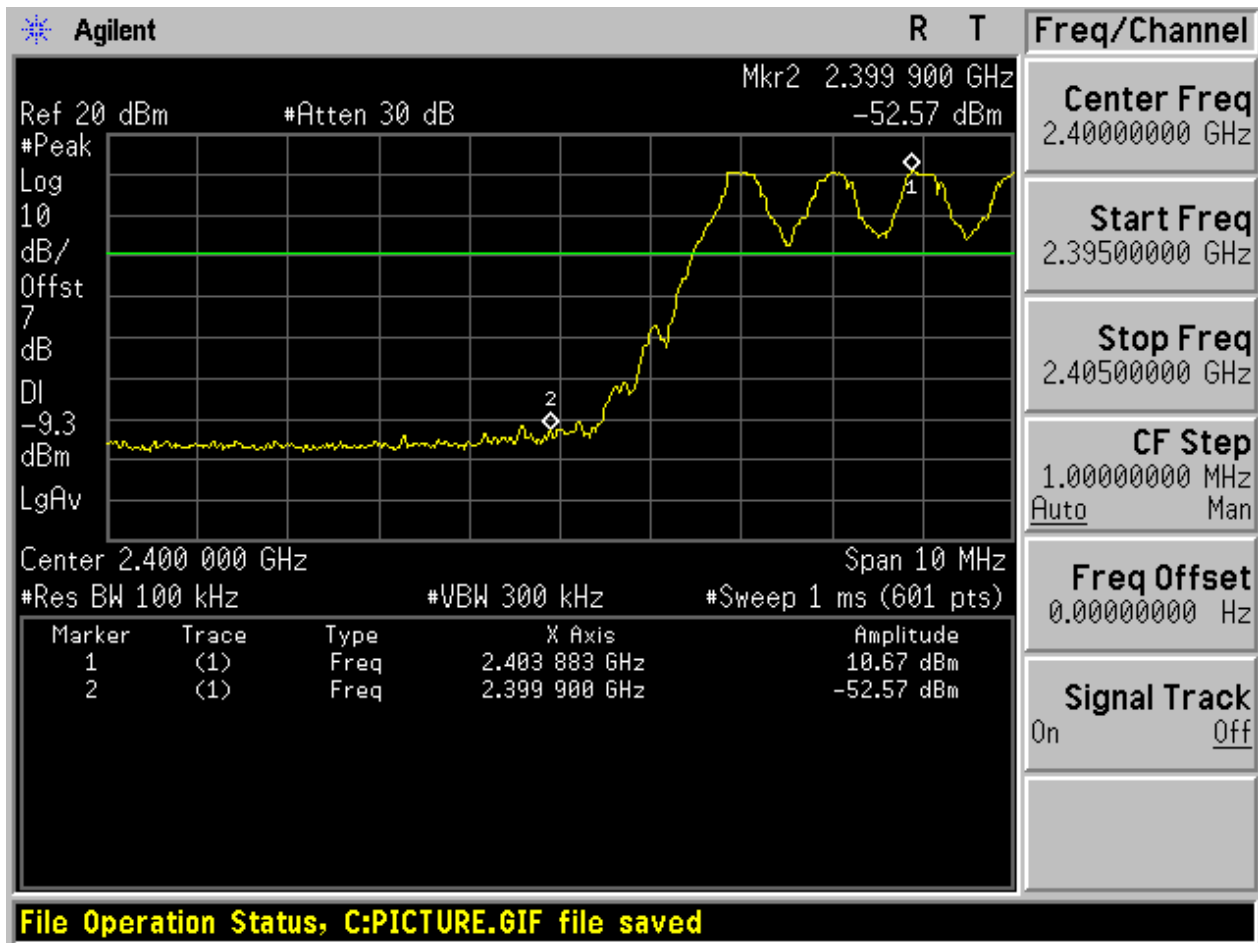
2 Test Plot

2.1 TM1_DH5_Ch0

No hopping

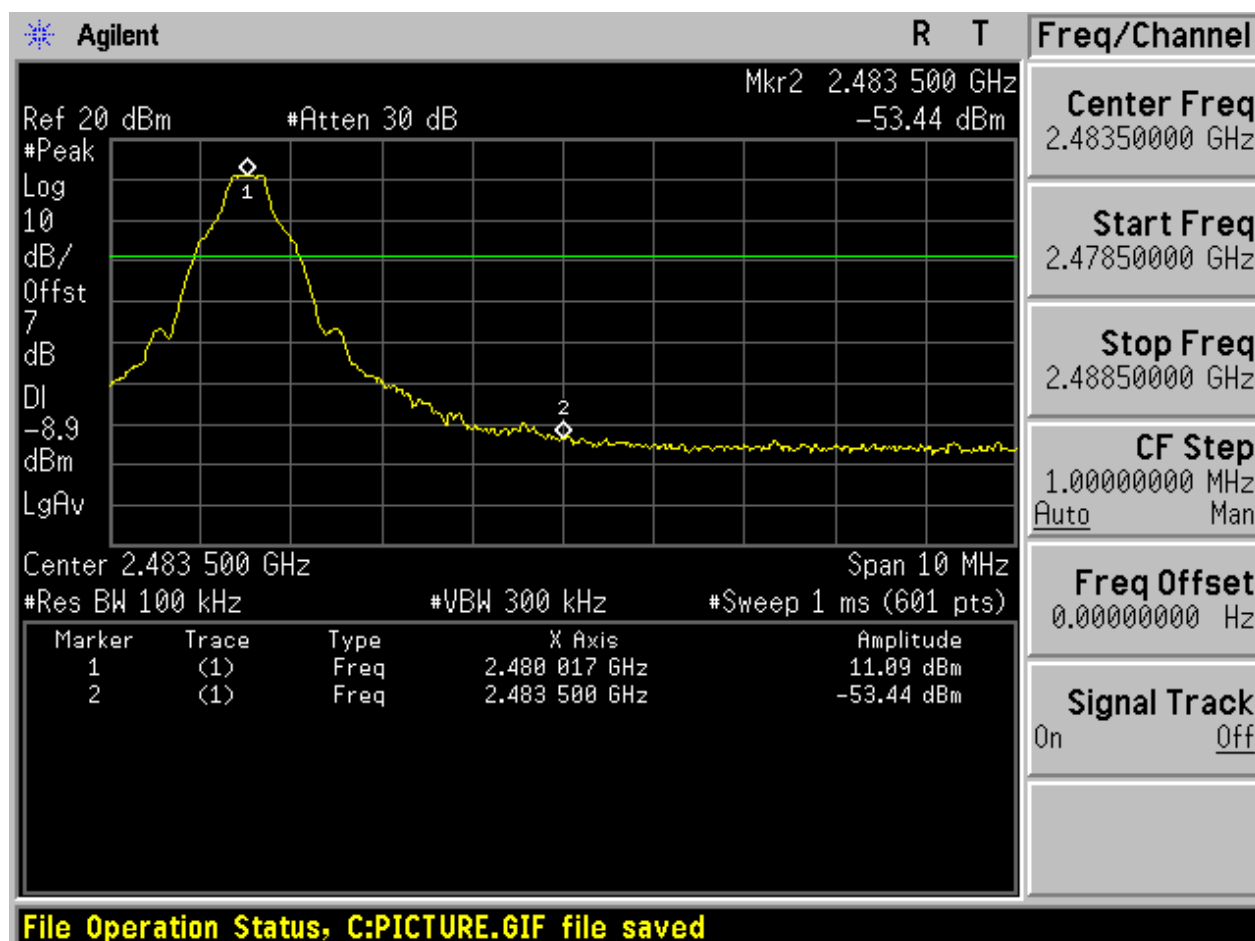


With hopping

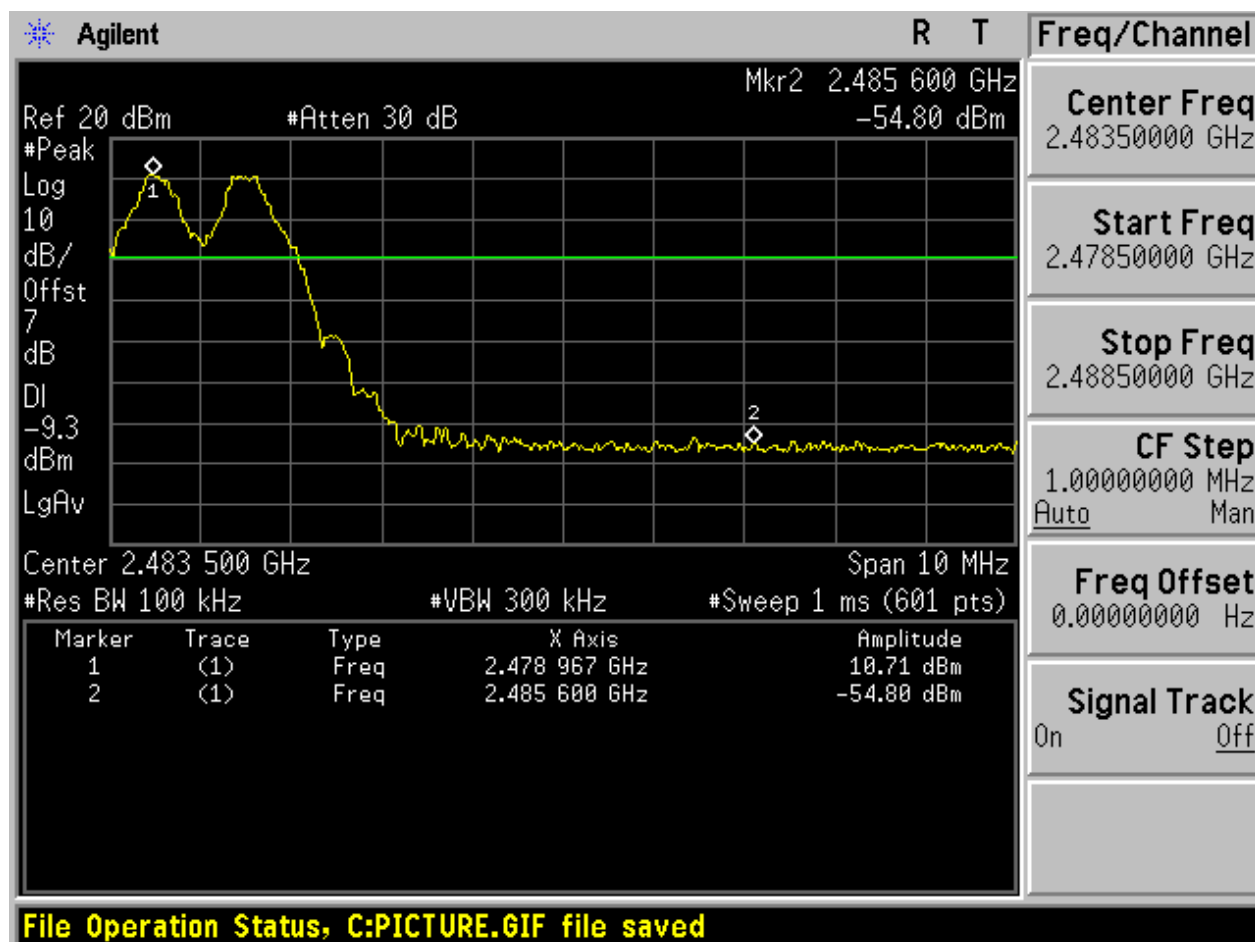


2.2 TM1_DH5_Ch78

No hopping

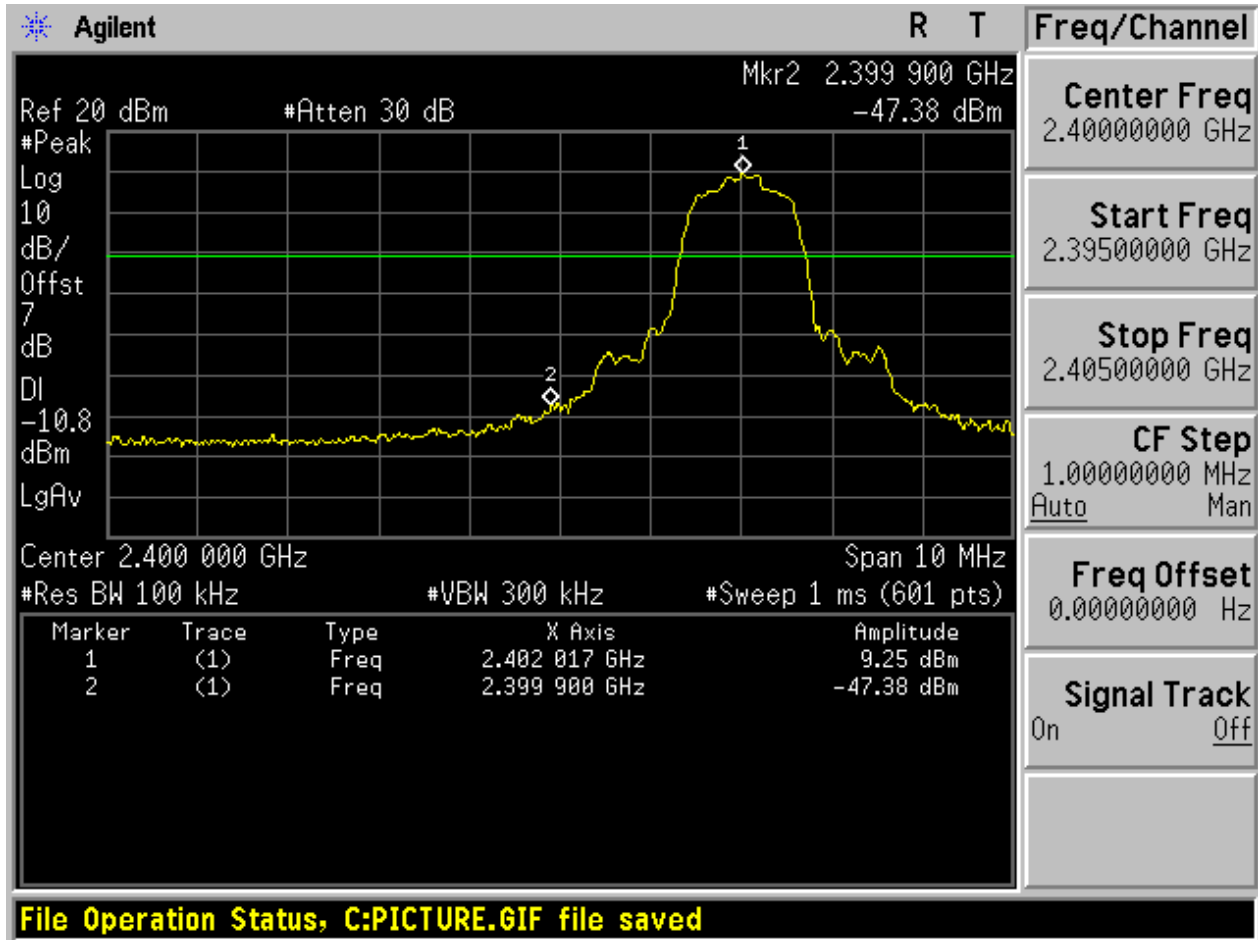


With hopping

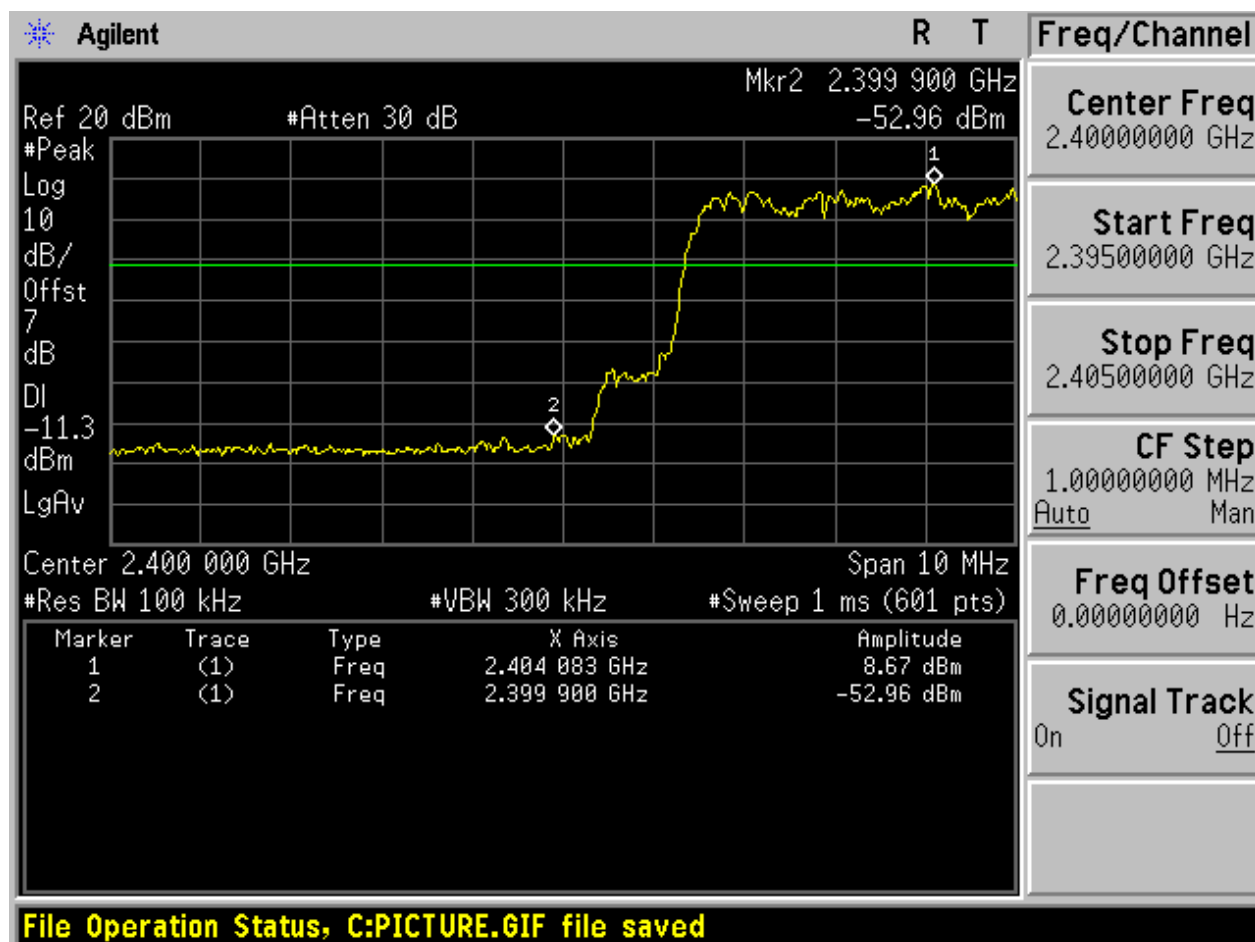


2.3 TM2_2DH5_Ch0

No hopping

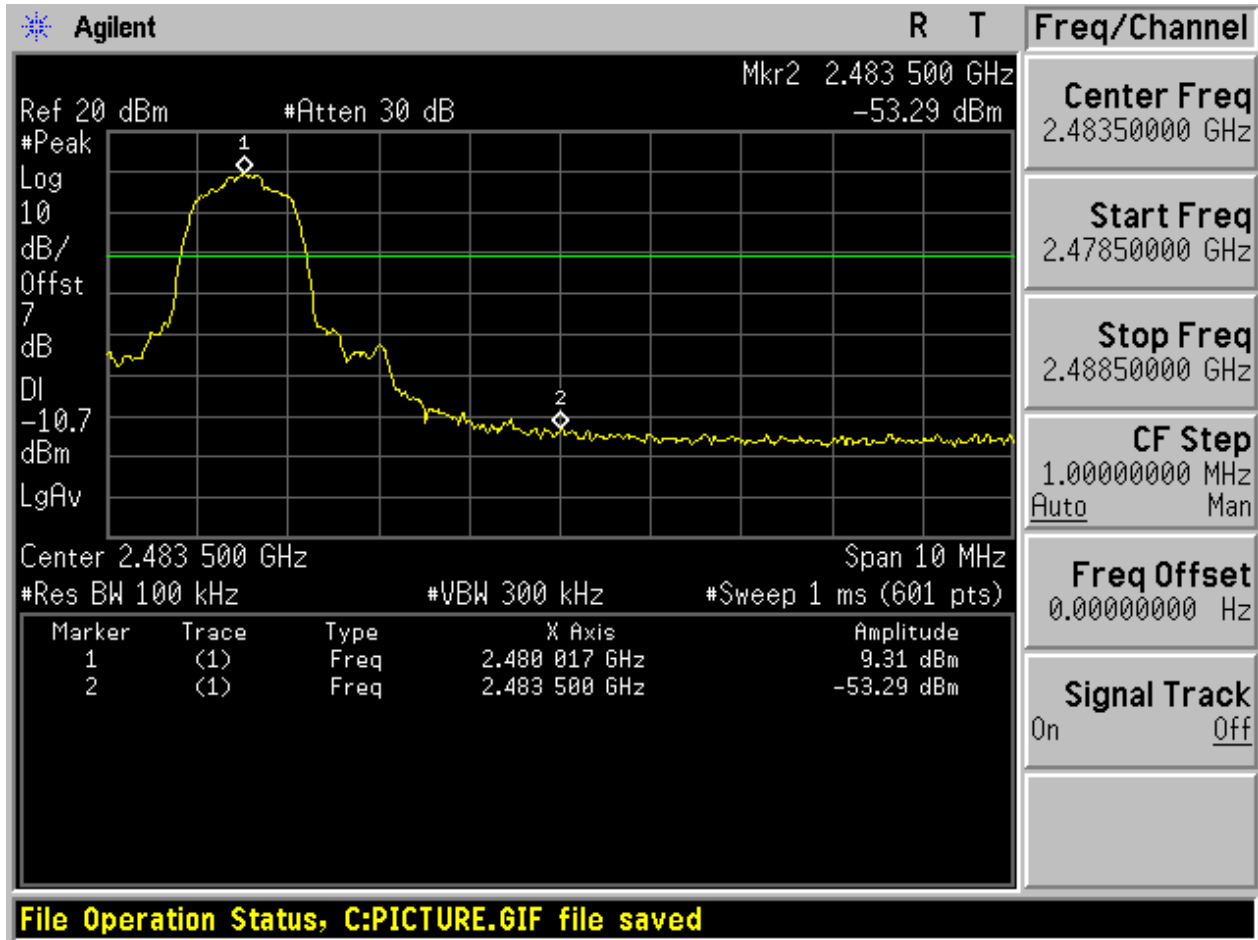


With hopping

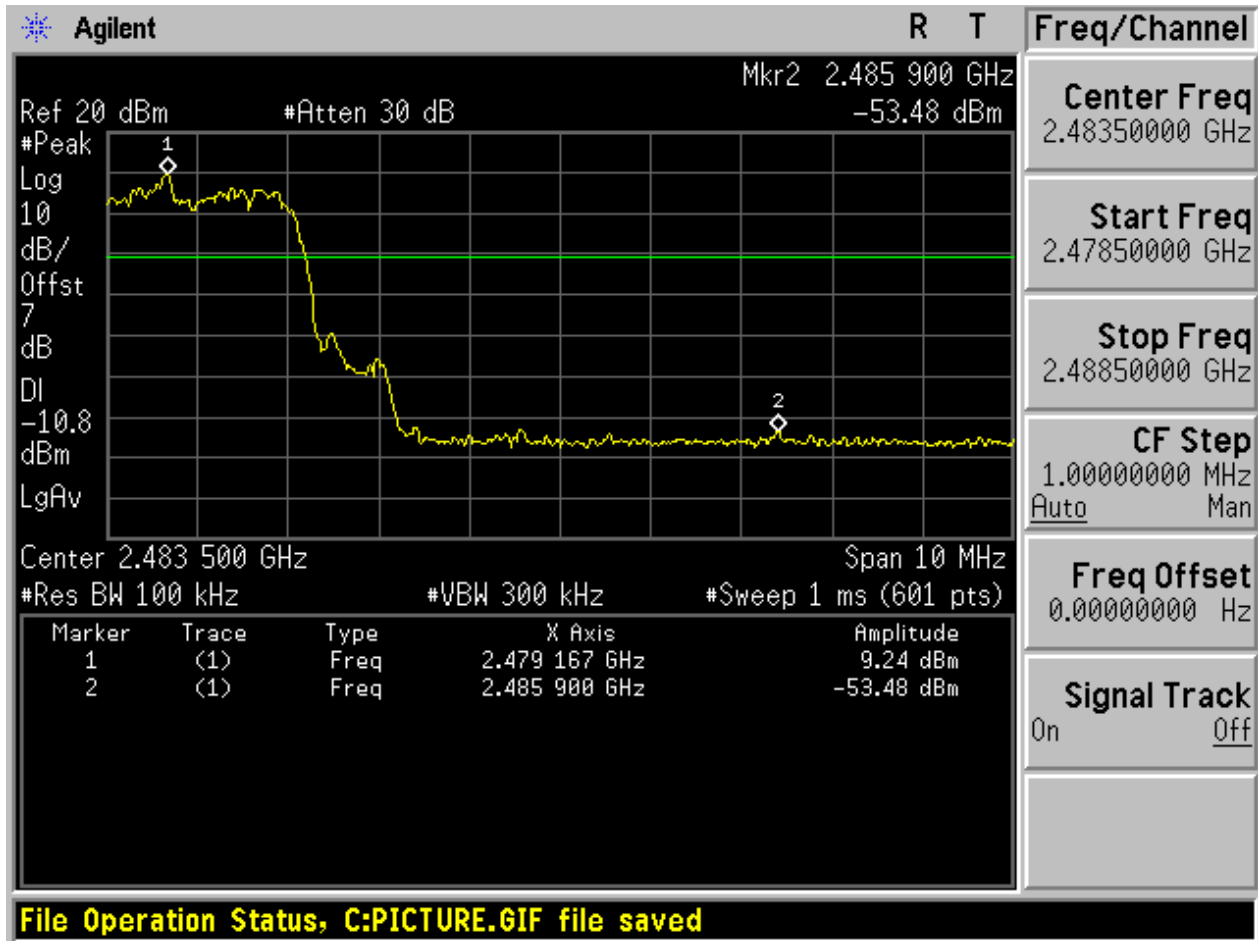


2.4 TM2_2DH5_Ch78

No hopping

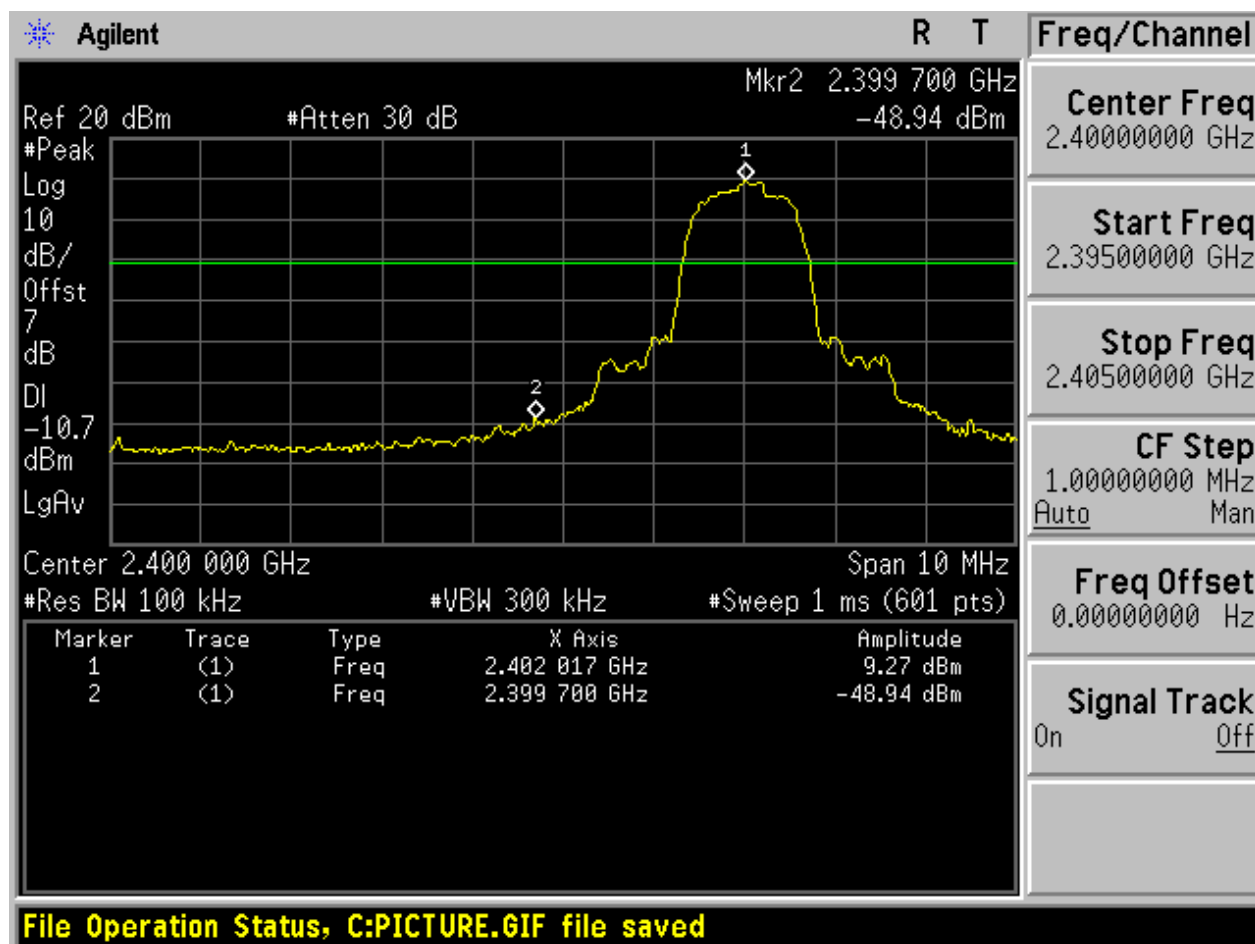


With hopping

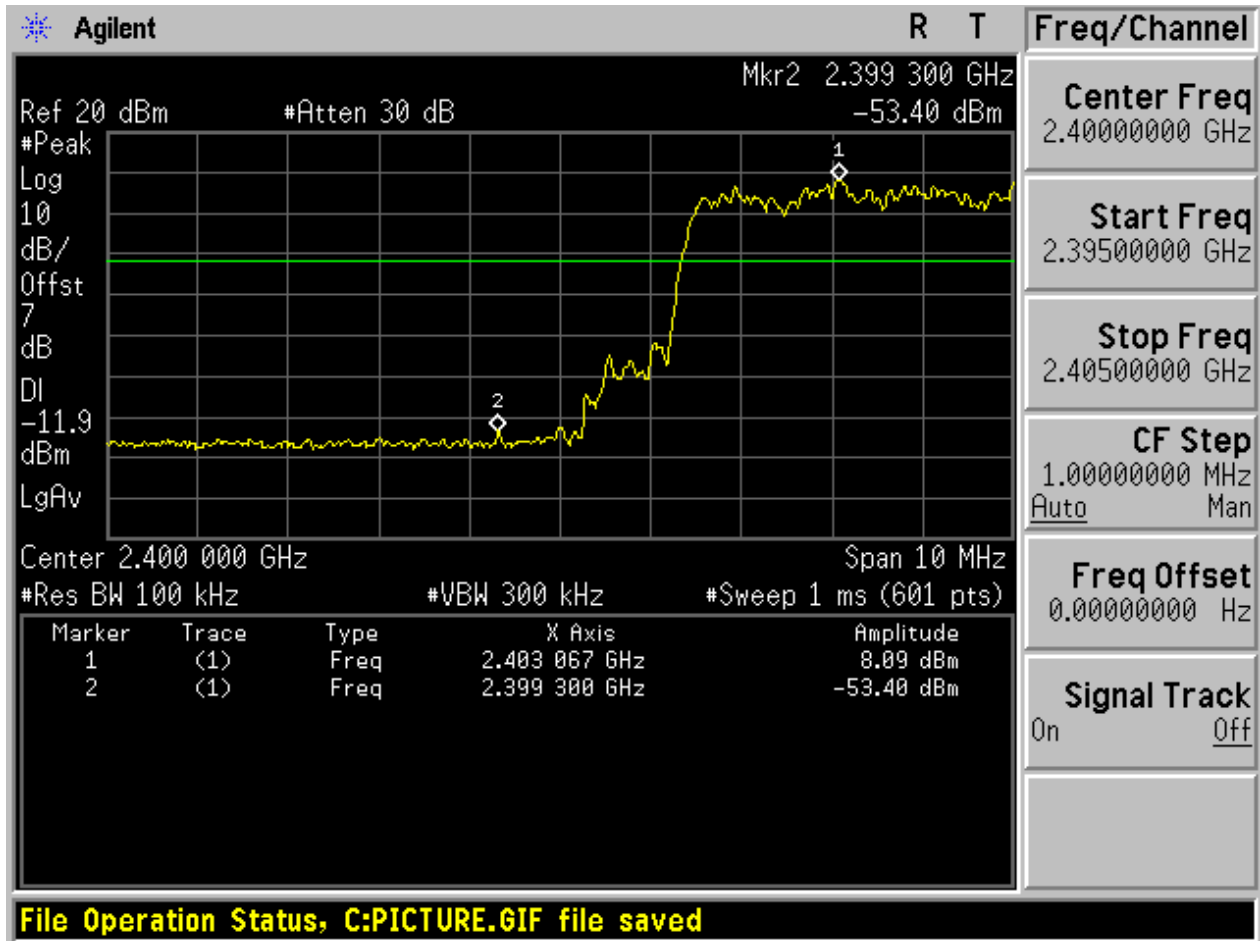


2.5 TM3_3DH5_Ch0

No hopping

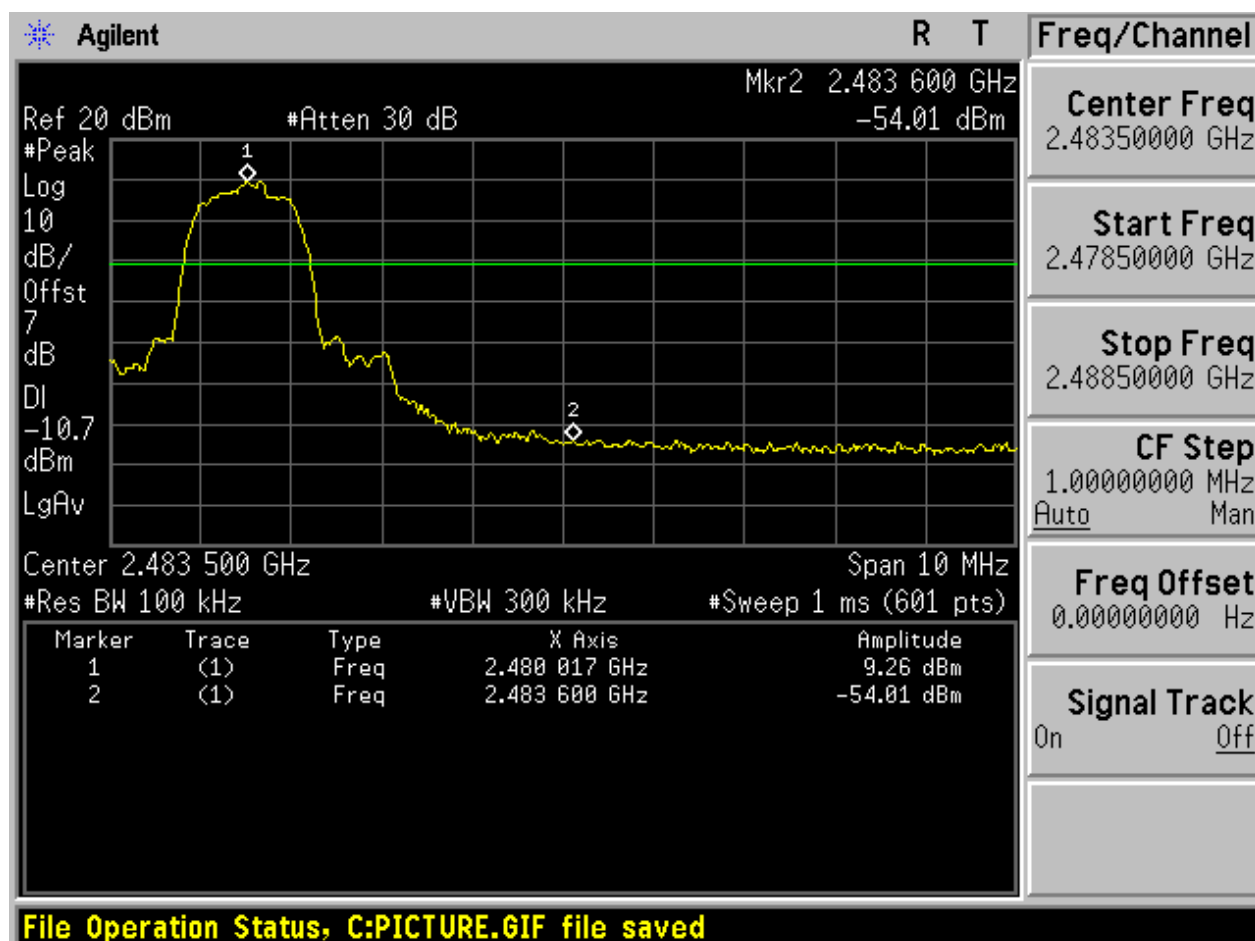


With hopping

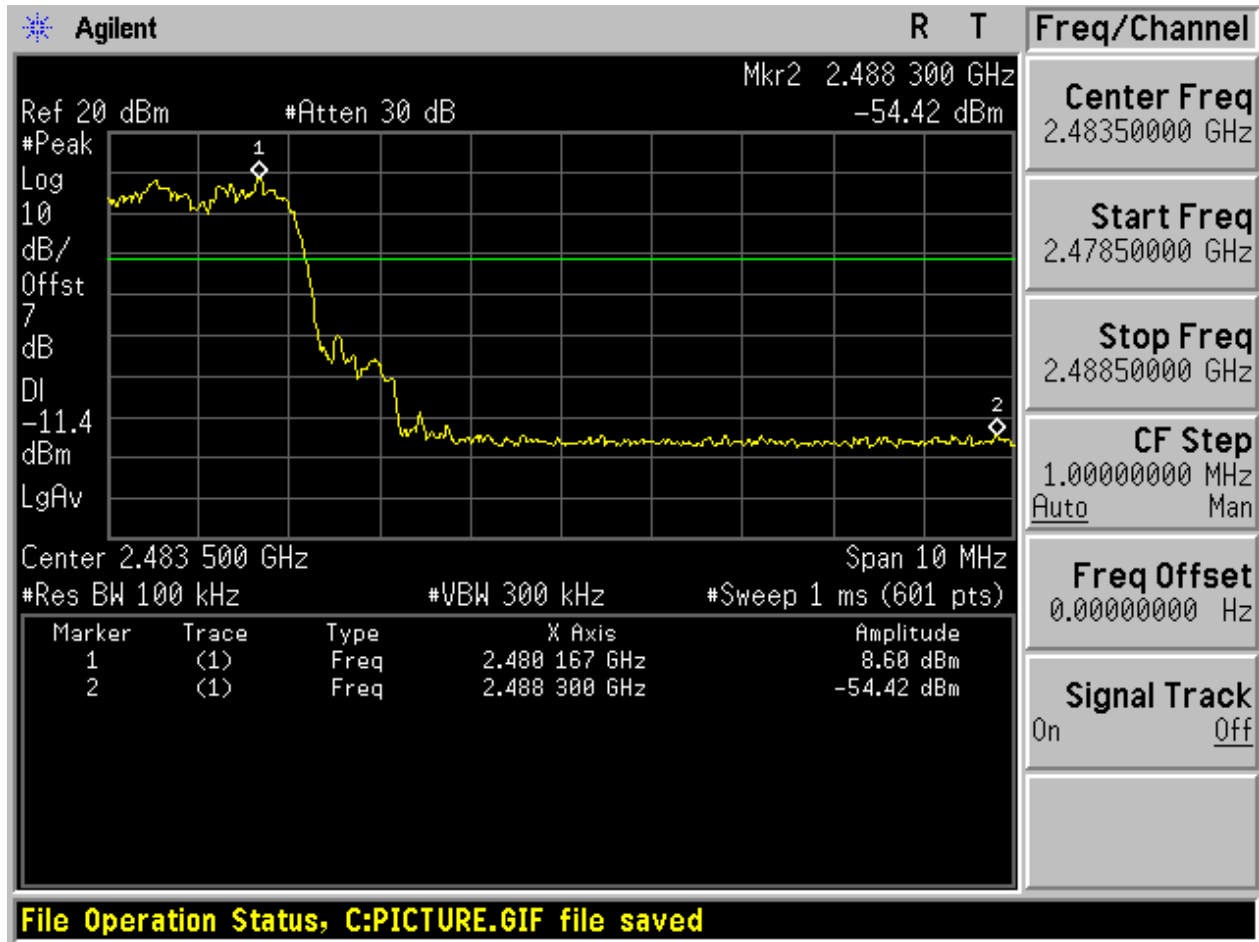


2.6 TM3_3DH5_Ch78

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.

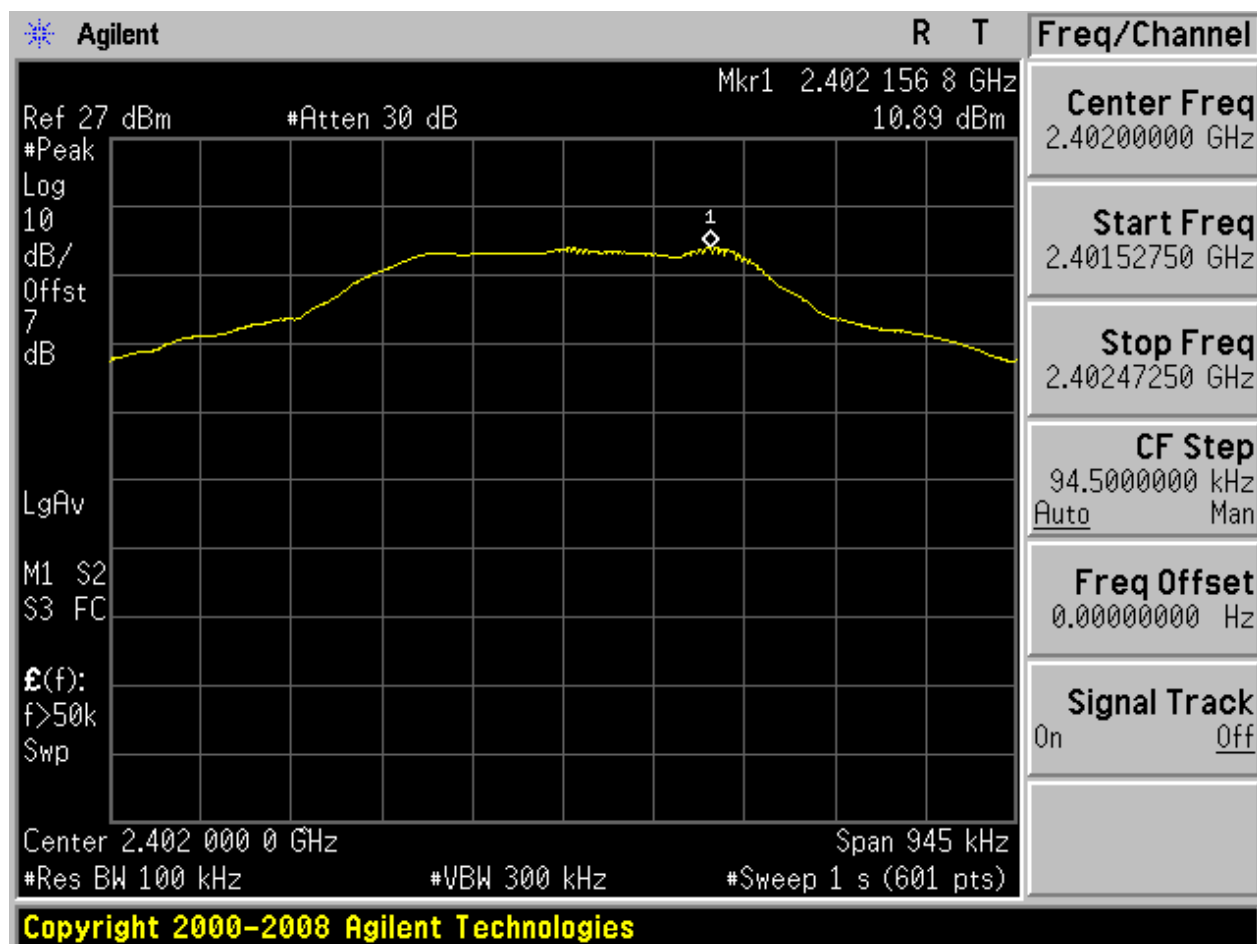
In the result table, the “< Limit” denotes that “The Puw [dBm] is less than Pref [dBm] - 20 [dB], see test plots for detailed”.

EUT Conf.	Pref [dBm/100 kHz]	Puw [dBm/100 kHz]	Verdict
TM1_DH5_Ch0	10.89	< Limit	Pass
TM1_DH5_Ch39	11.28	< Limit	Pass
TM1_DH5_Ch78	10.94	< Limit	Pass
TM2_2DH5_Ch0	9.12	< Limit	Pass
TM2_2DH5_Ch39	9.48	< Limit	Pass
TM2_2DH5_Ch78	9.15	< Limit	Pass
TM3_3DH5_Ch0	9.12	< Limit	Pass
TM3_3DH5_Ch39	9.49	< Limit	Pass
TM3_3DH5_Ch78	9.16	< Limit	Pass

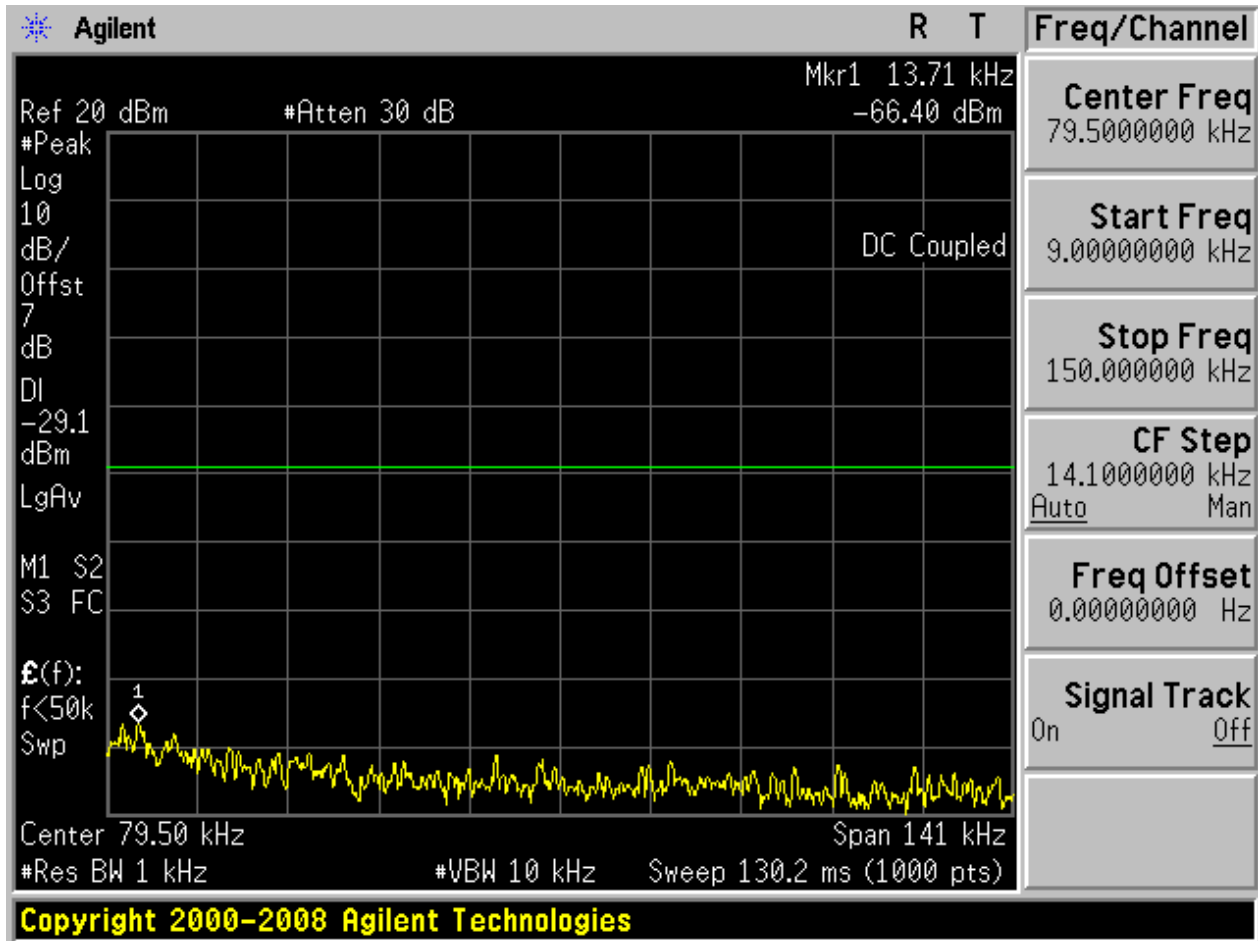
2 Test Plot

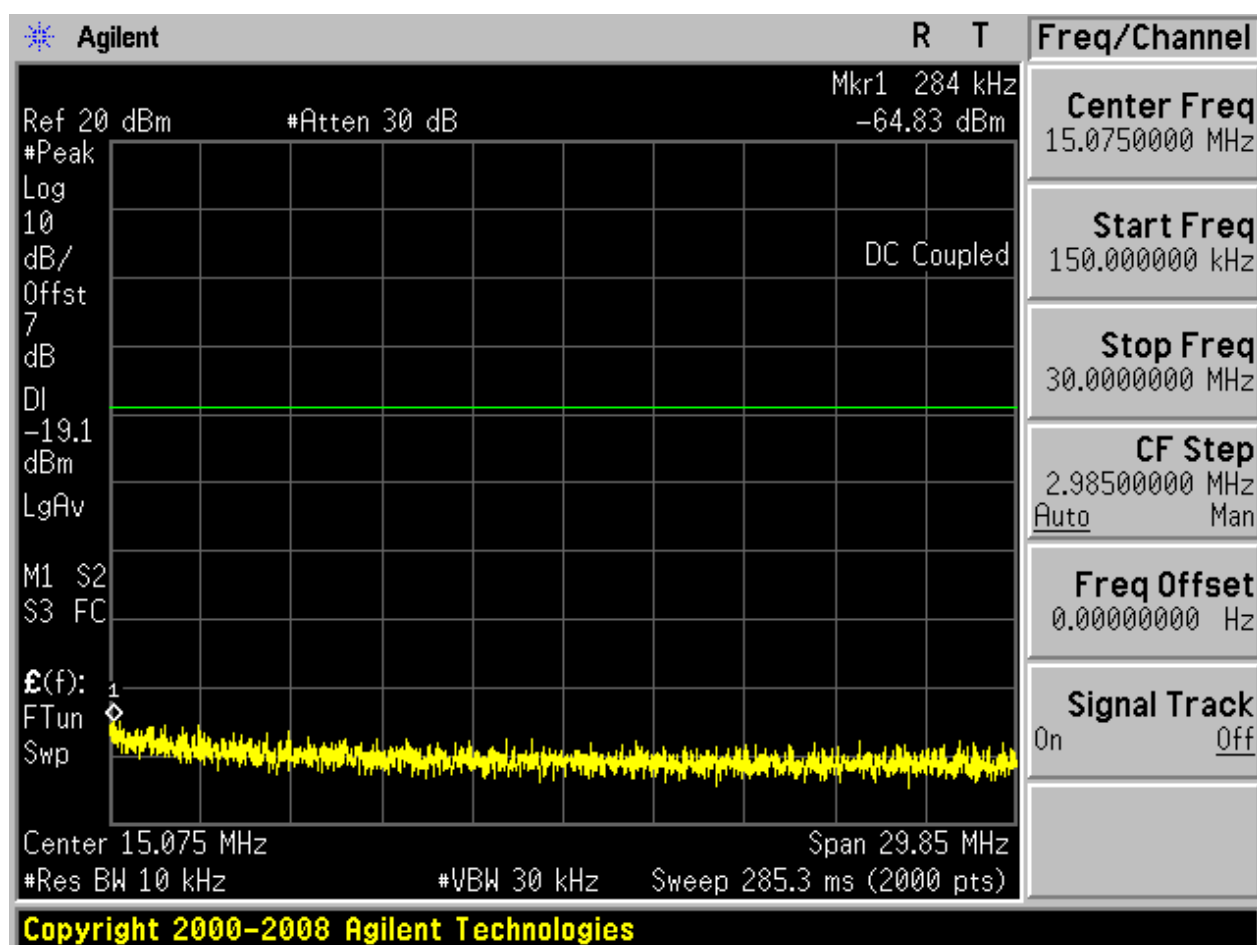
2.1 TM1_DH5_Ch0

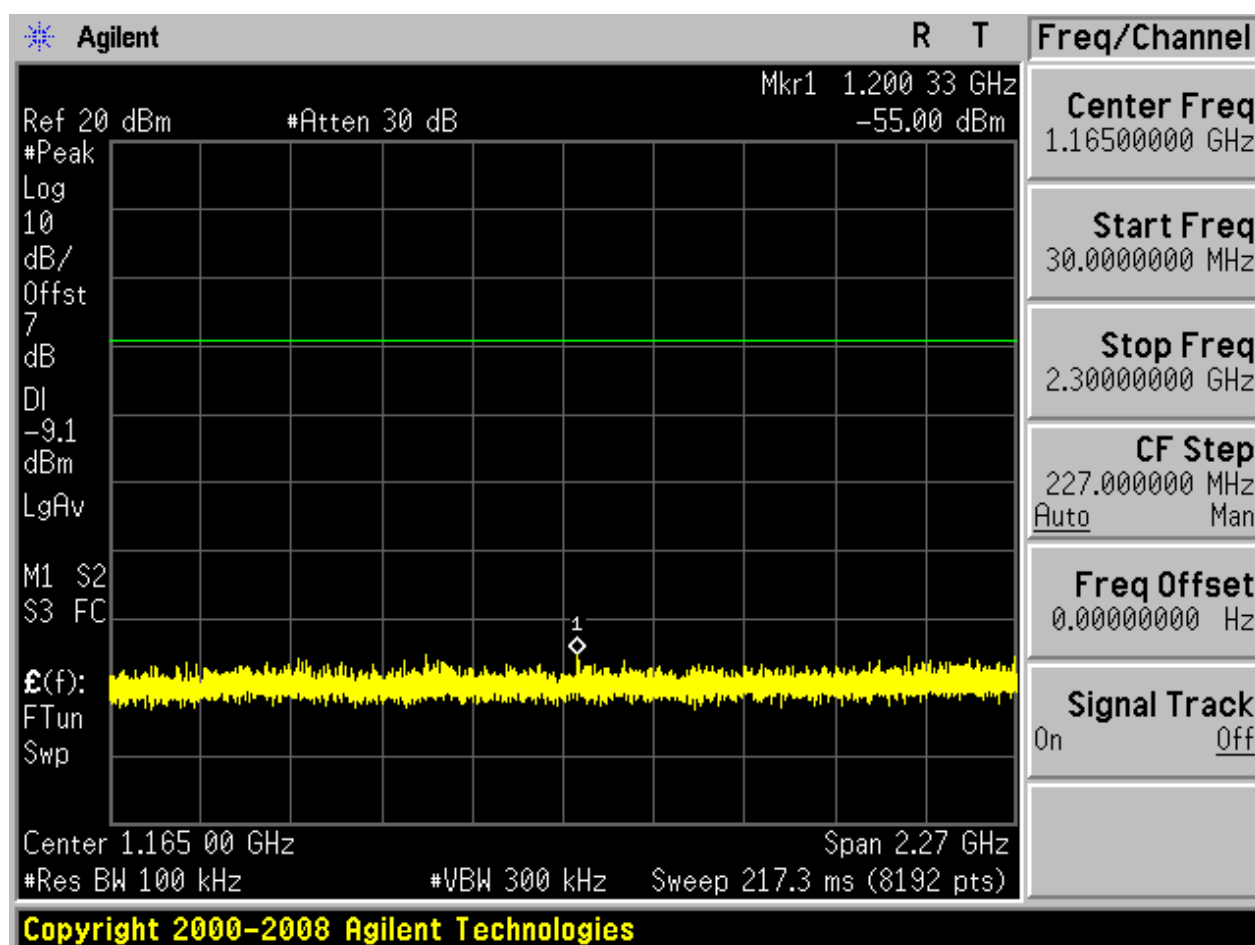
2.1.1 Pref

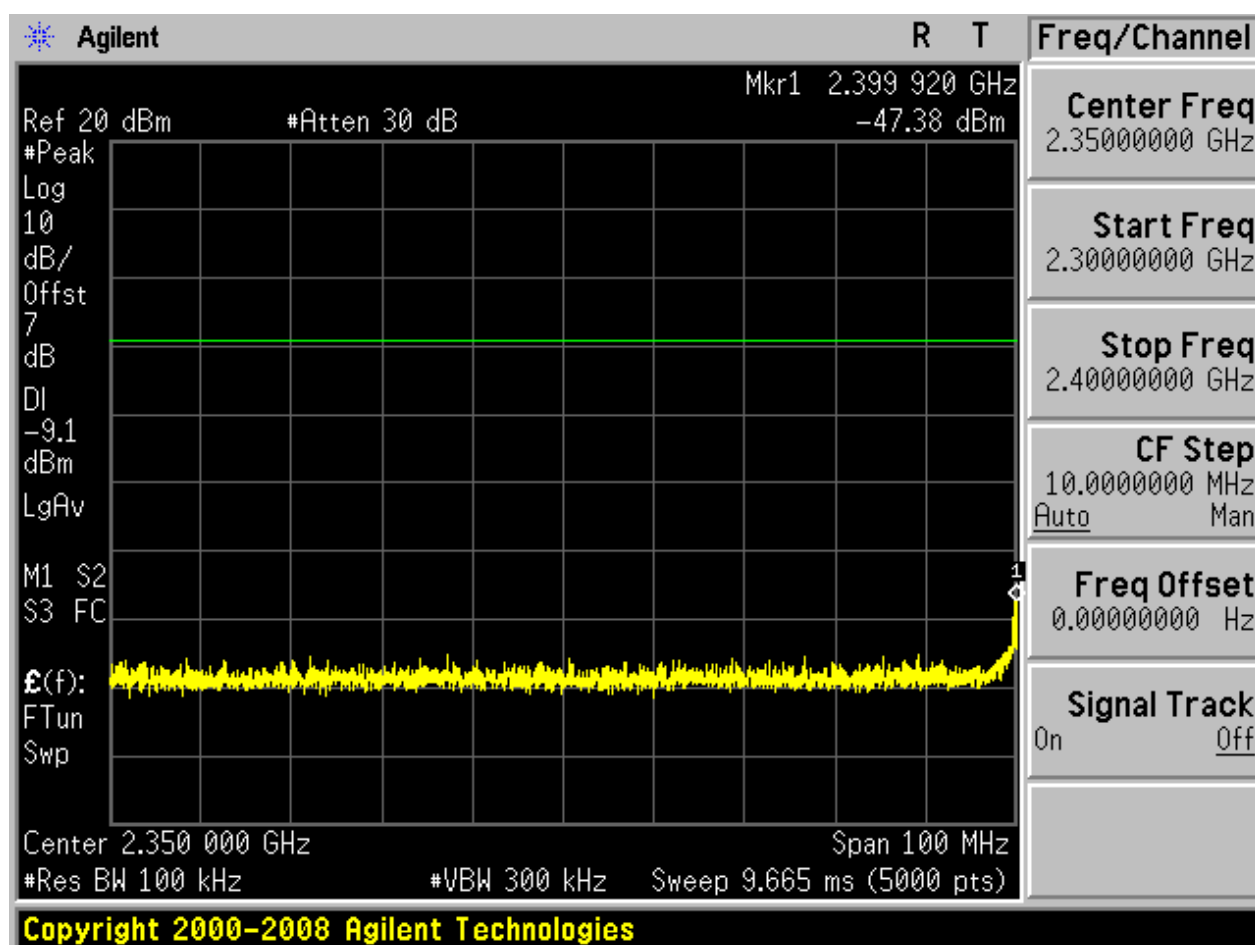


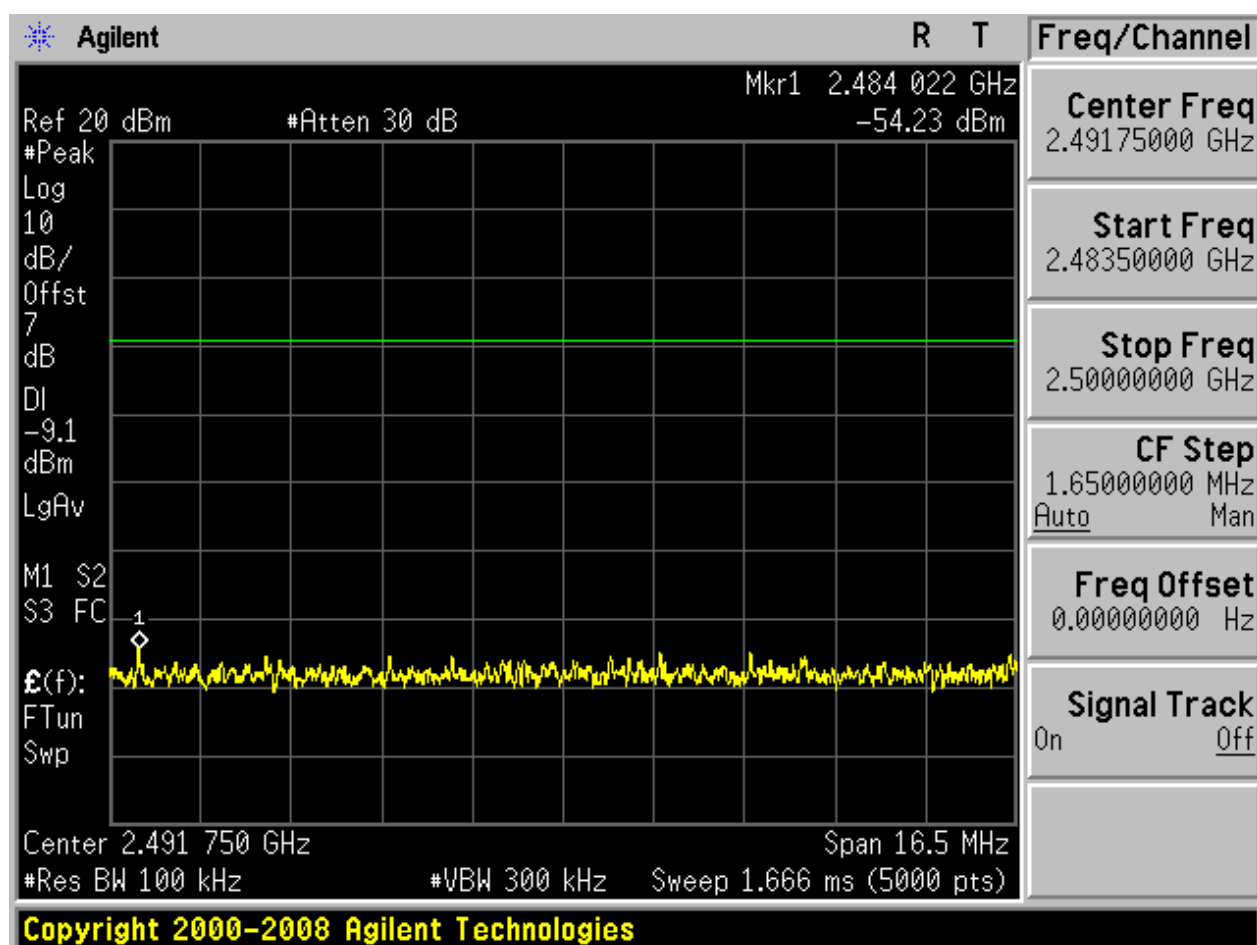
2.1.2 Puw

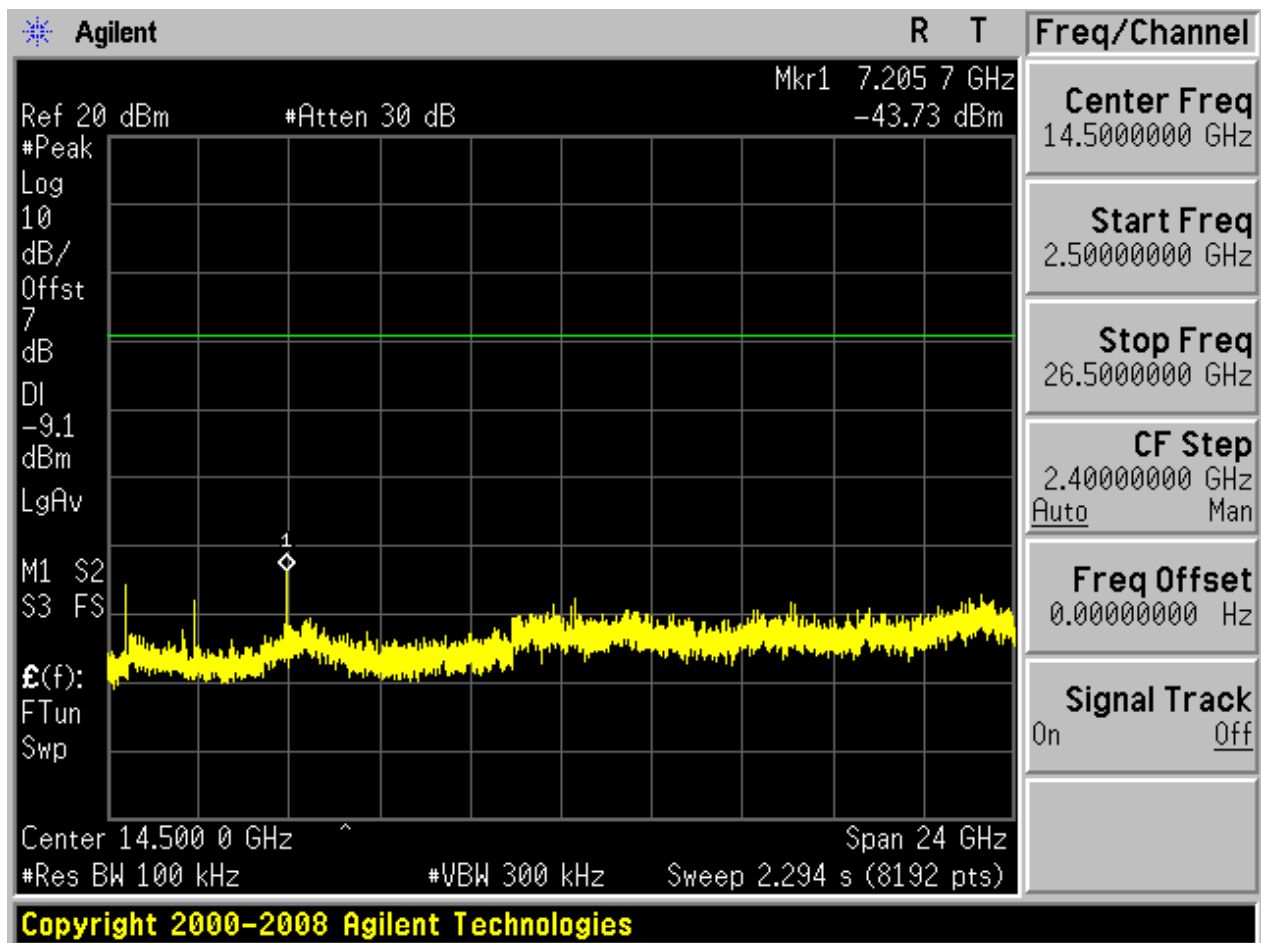






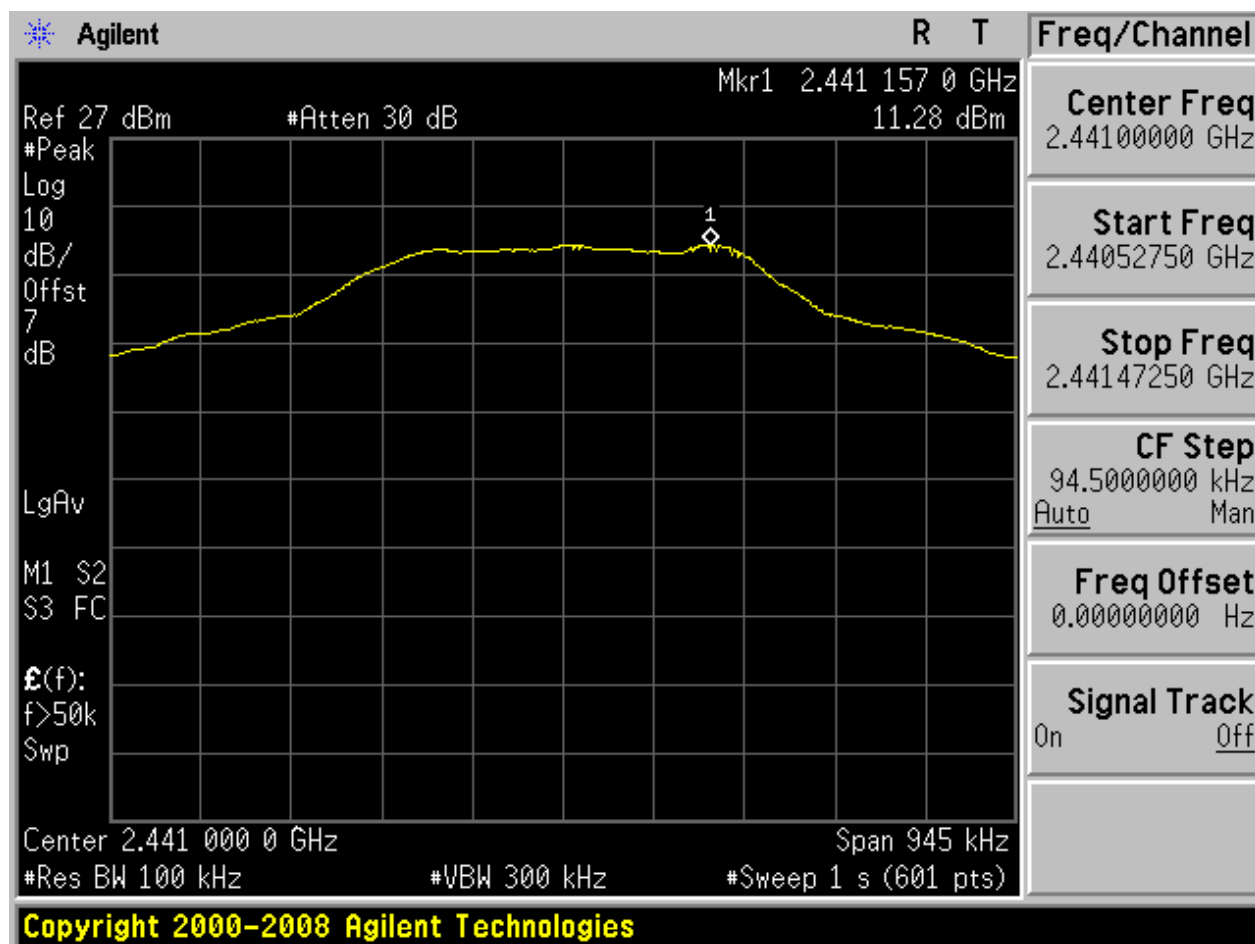




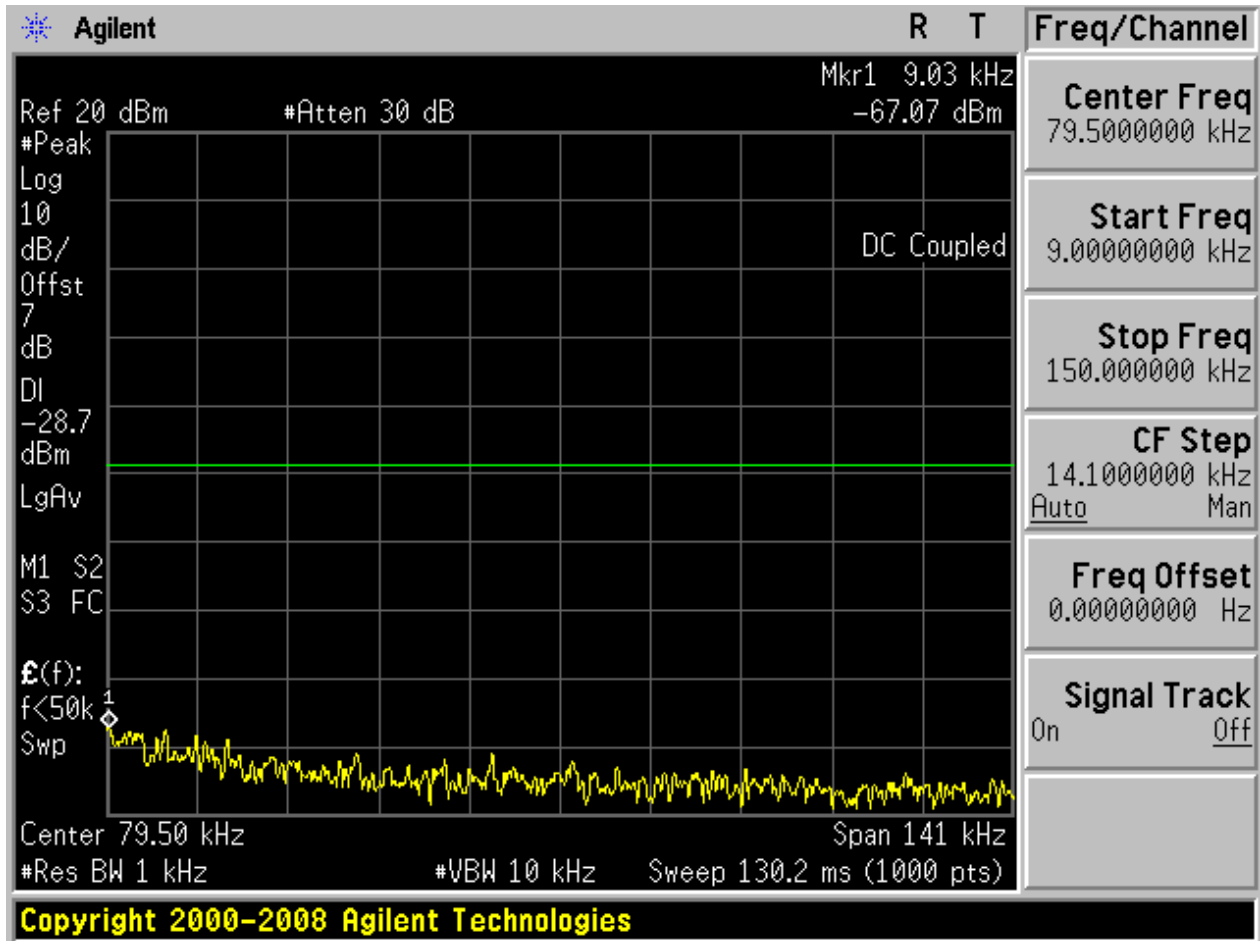


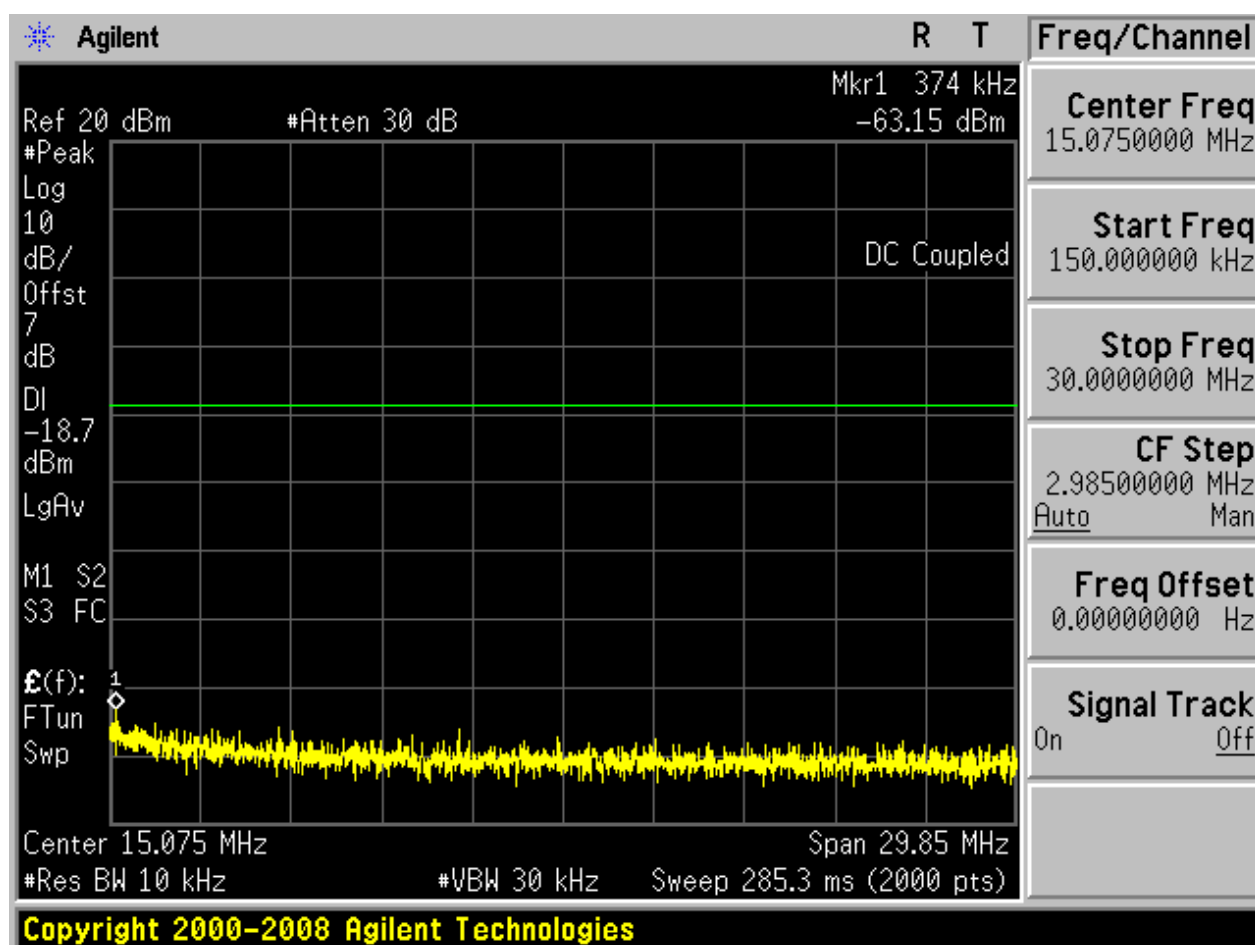
2.2 TM1_DH5_Ch39

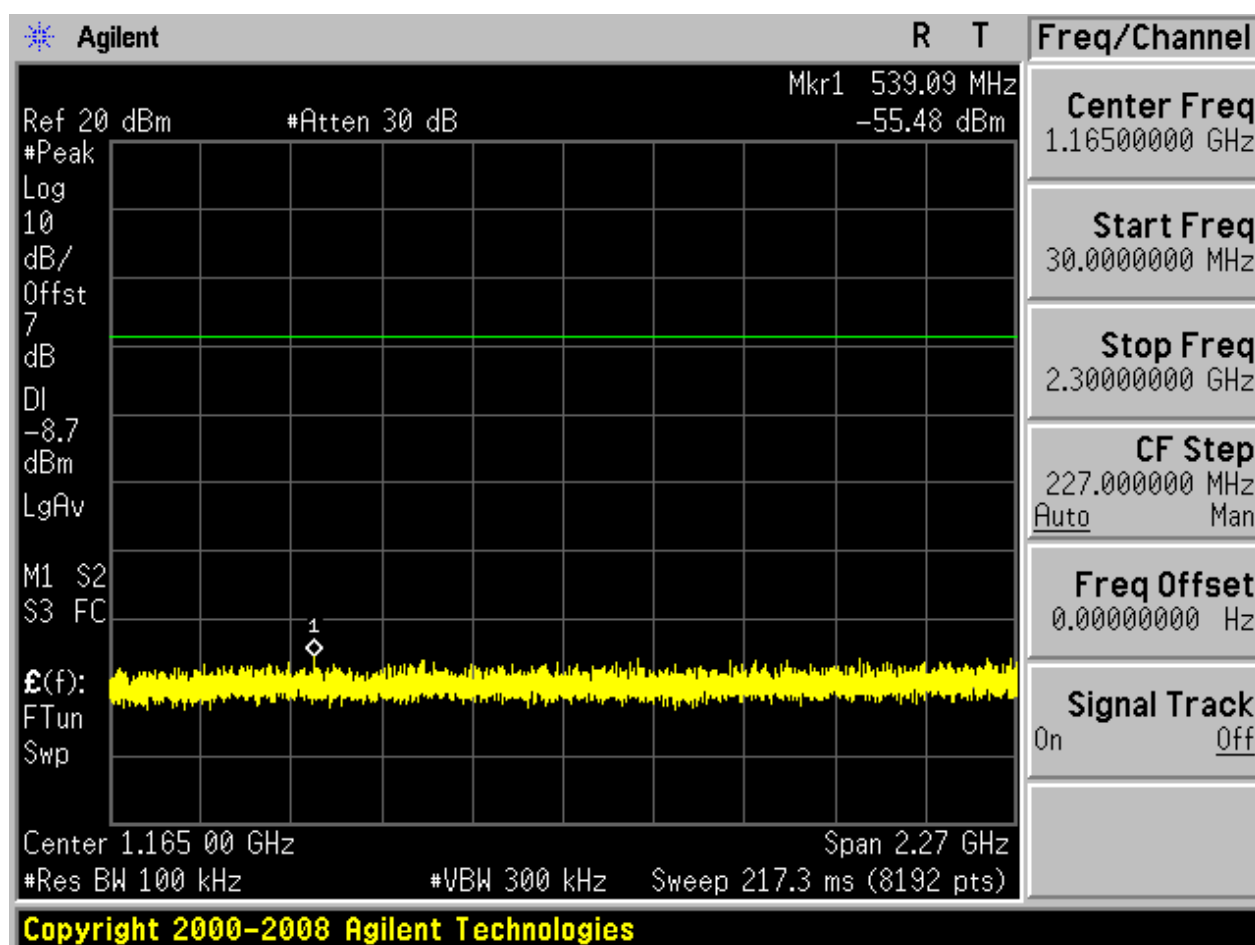
2.2.1 Pref

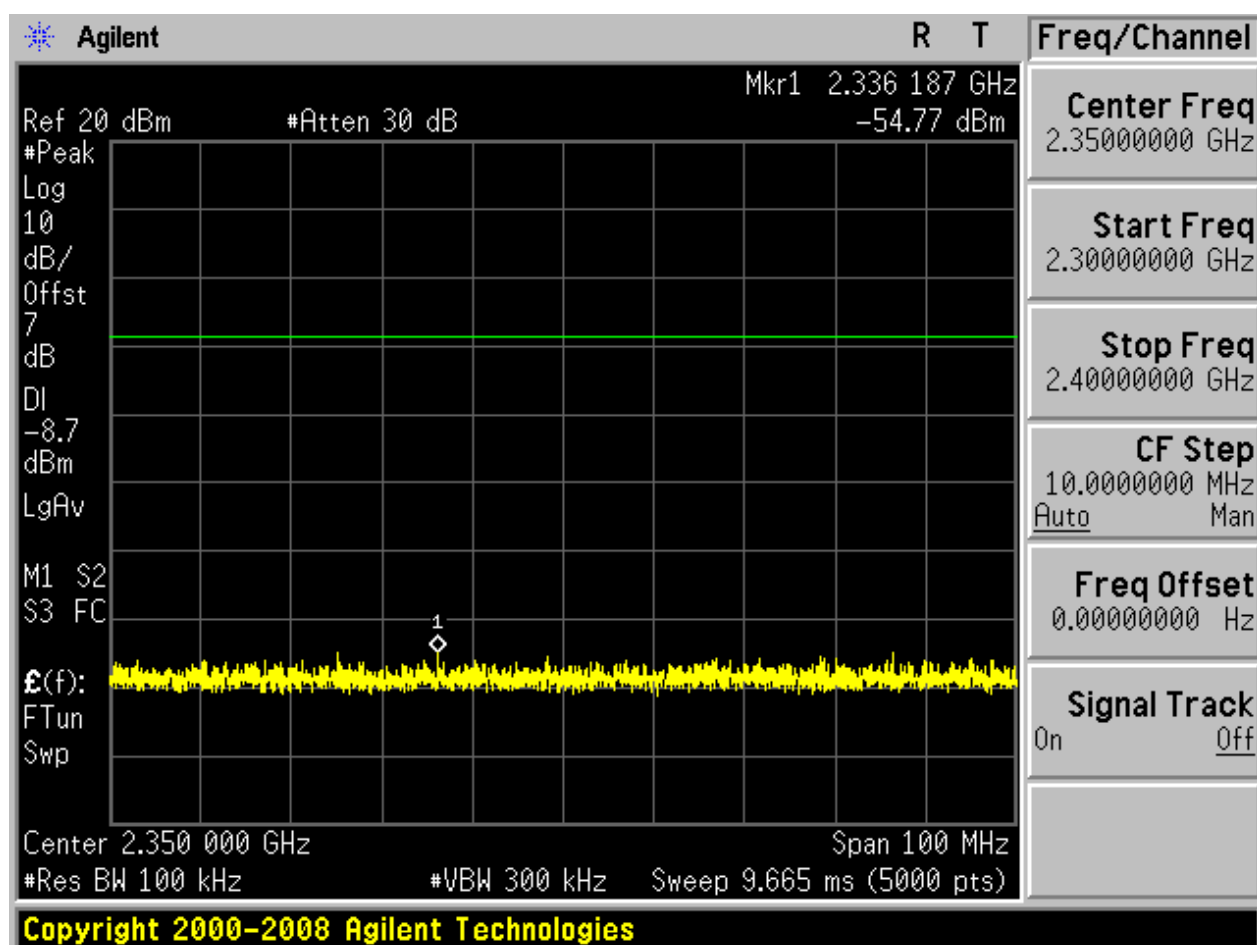


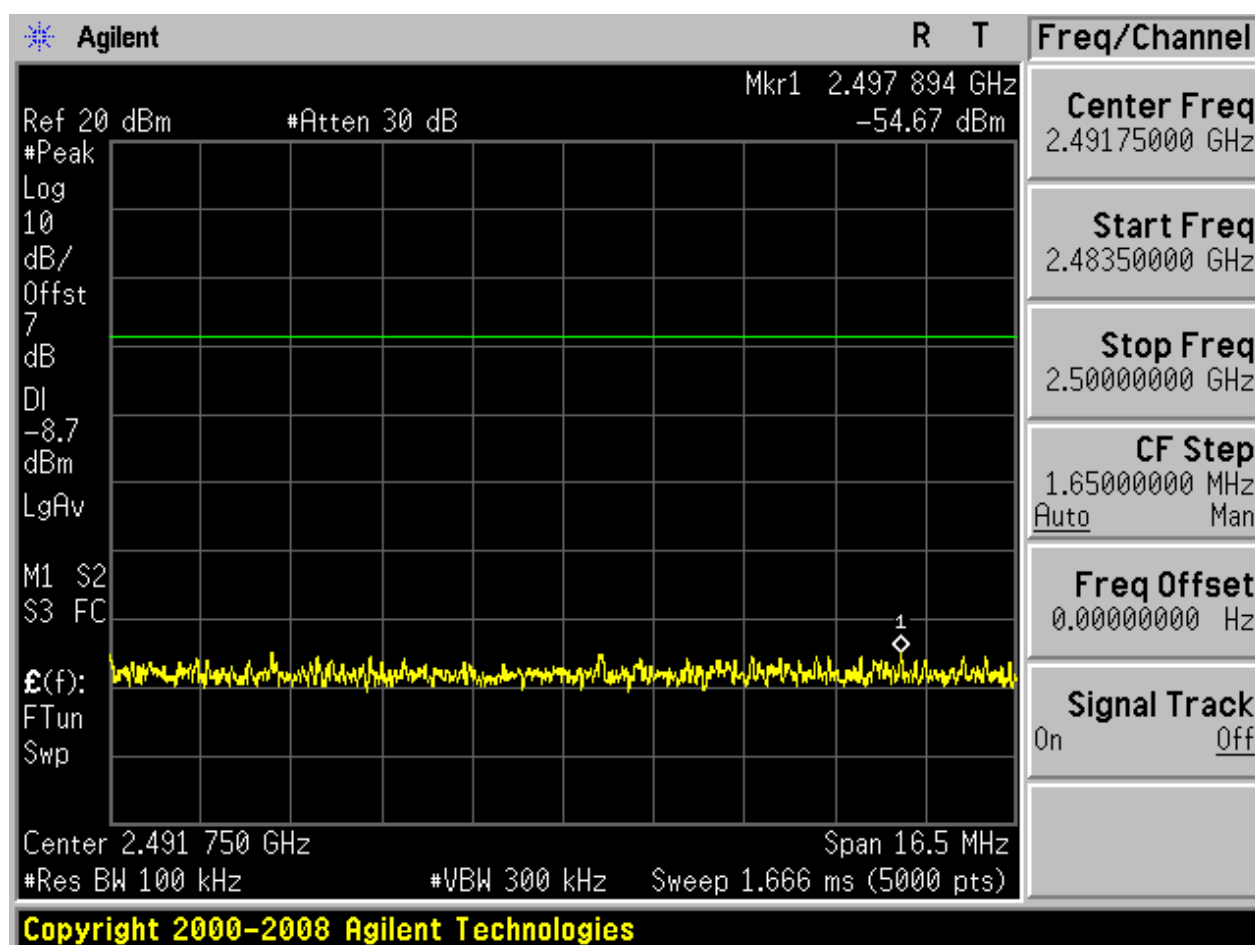
2.2.2 Puw

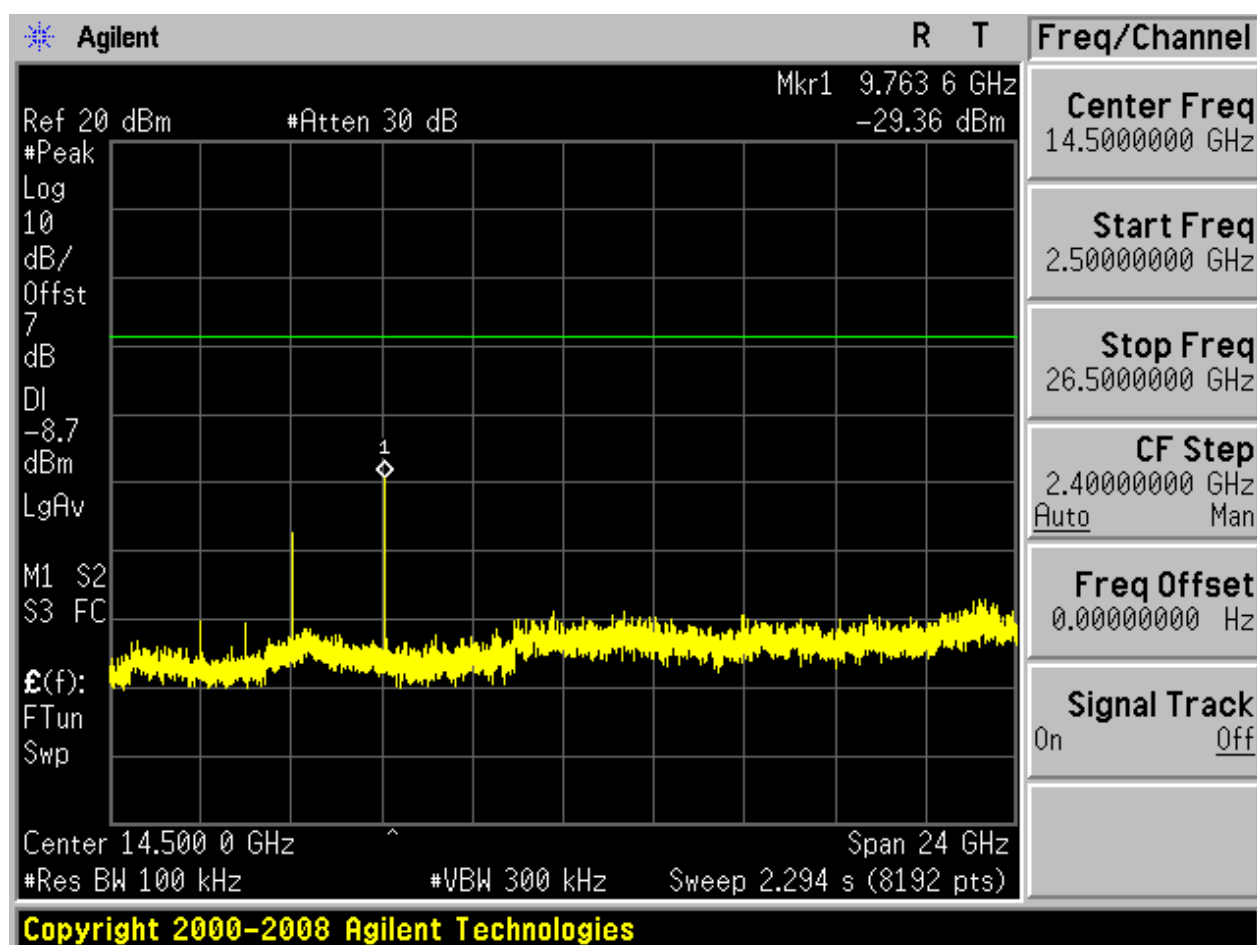






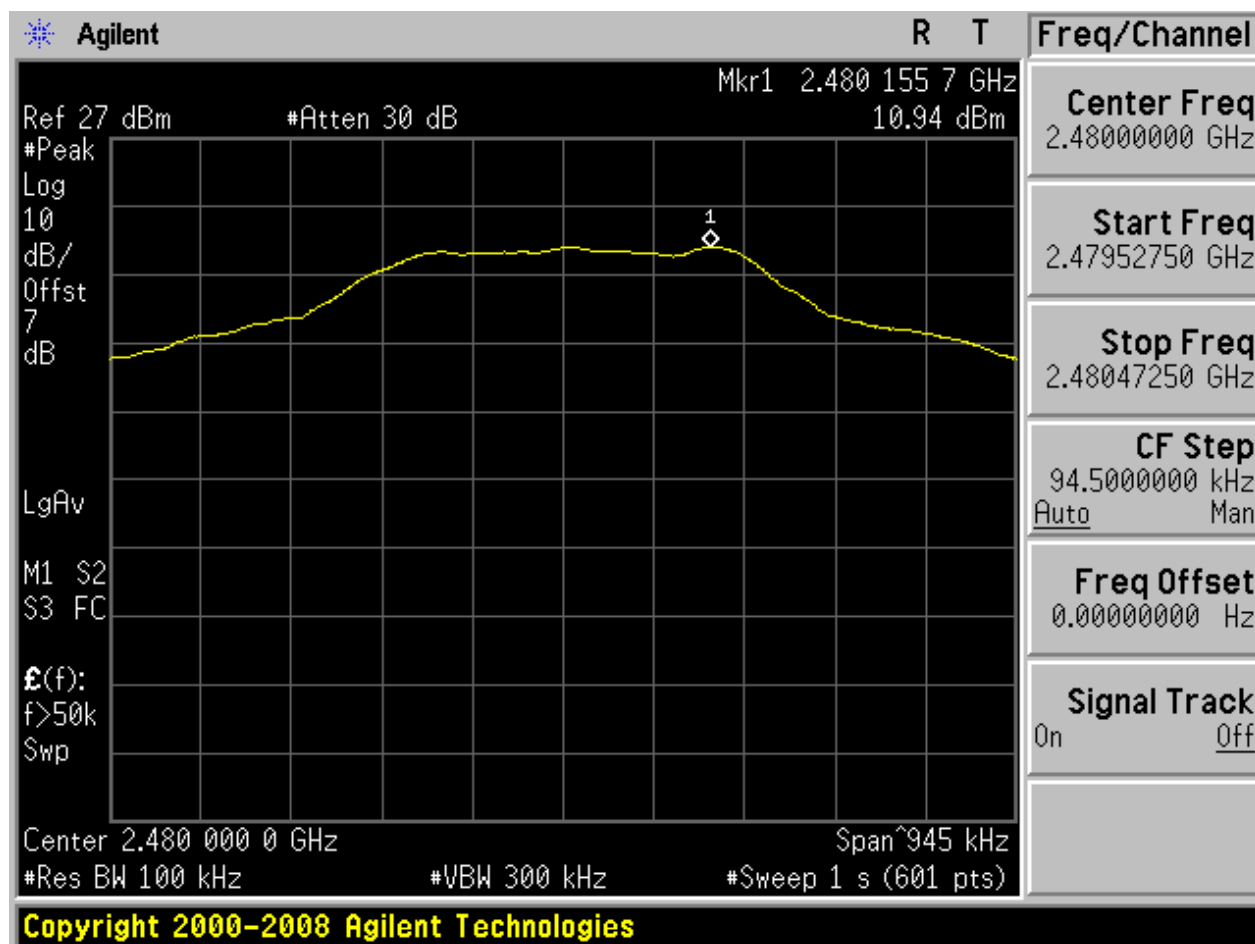




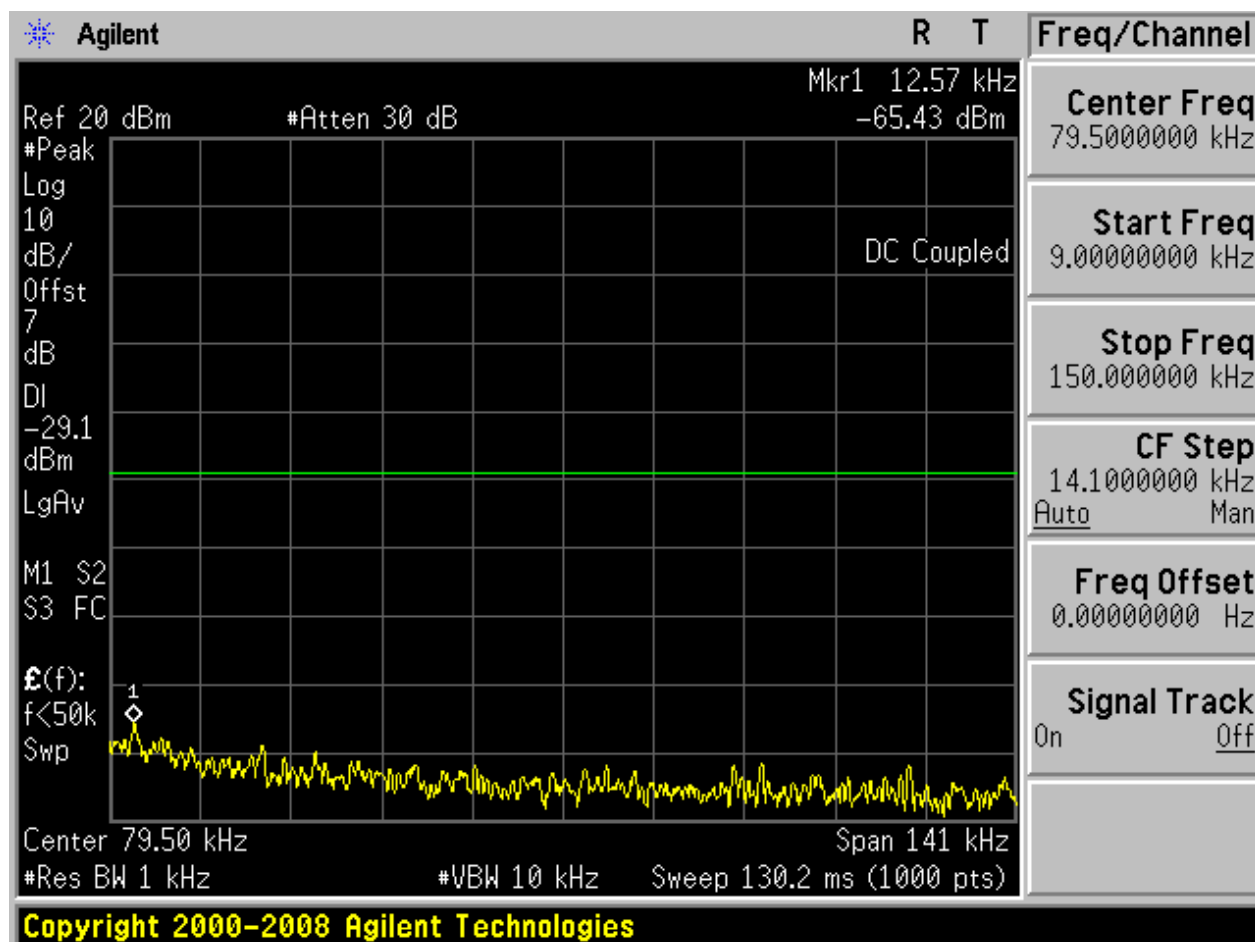


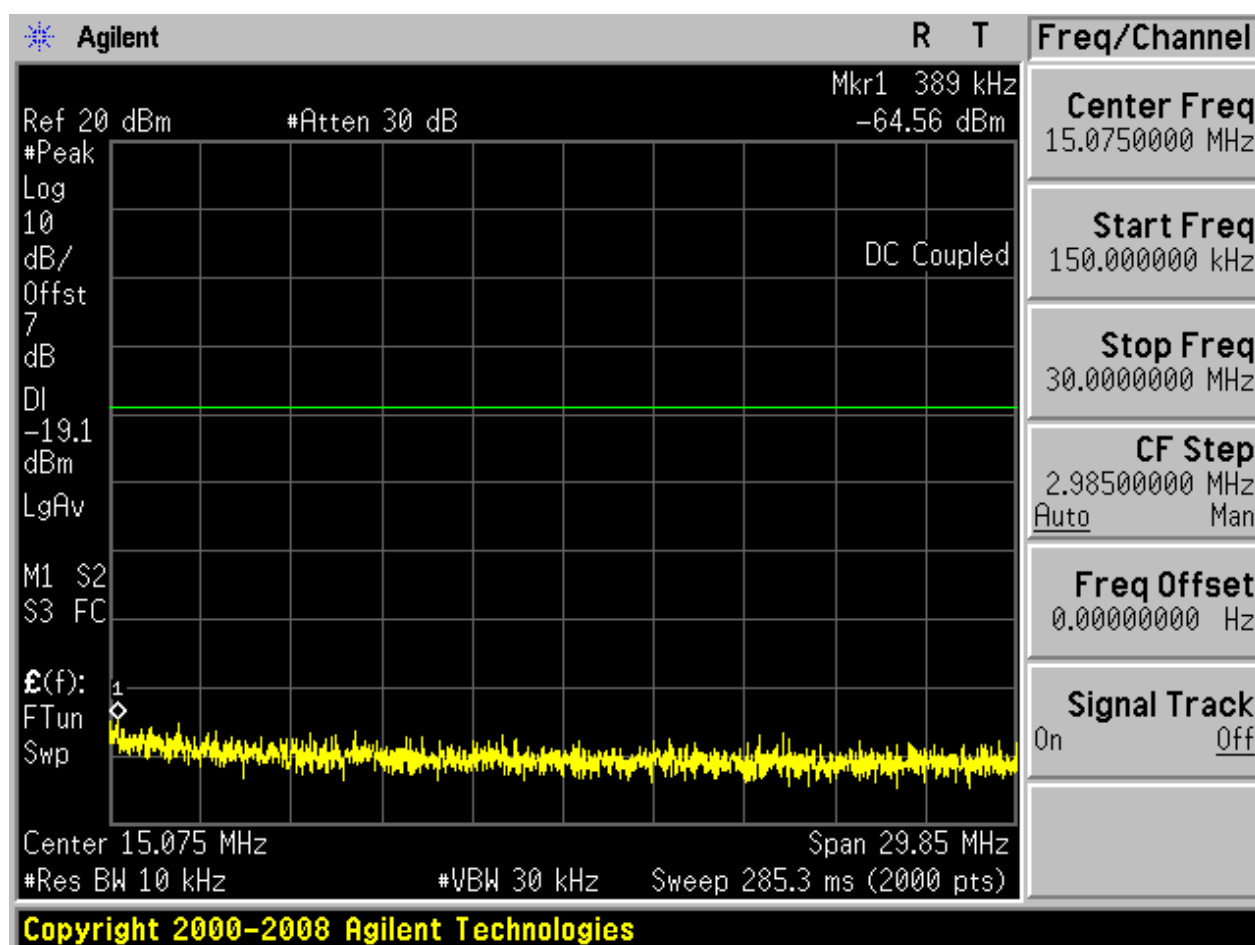
2.3 TM1_DH5_Ch78

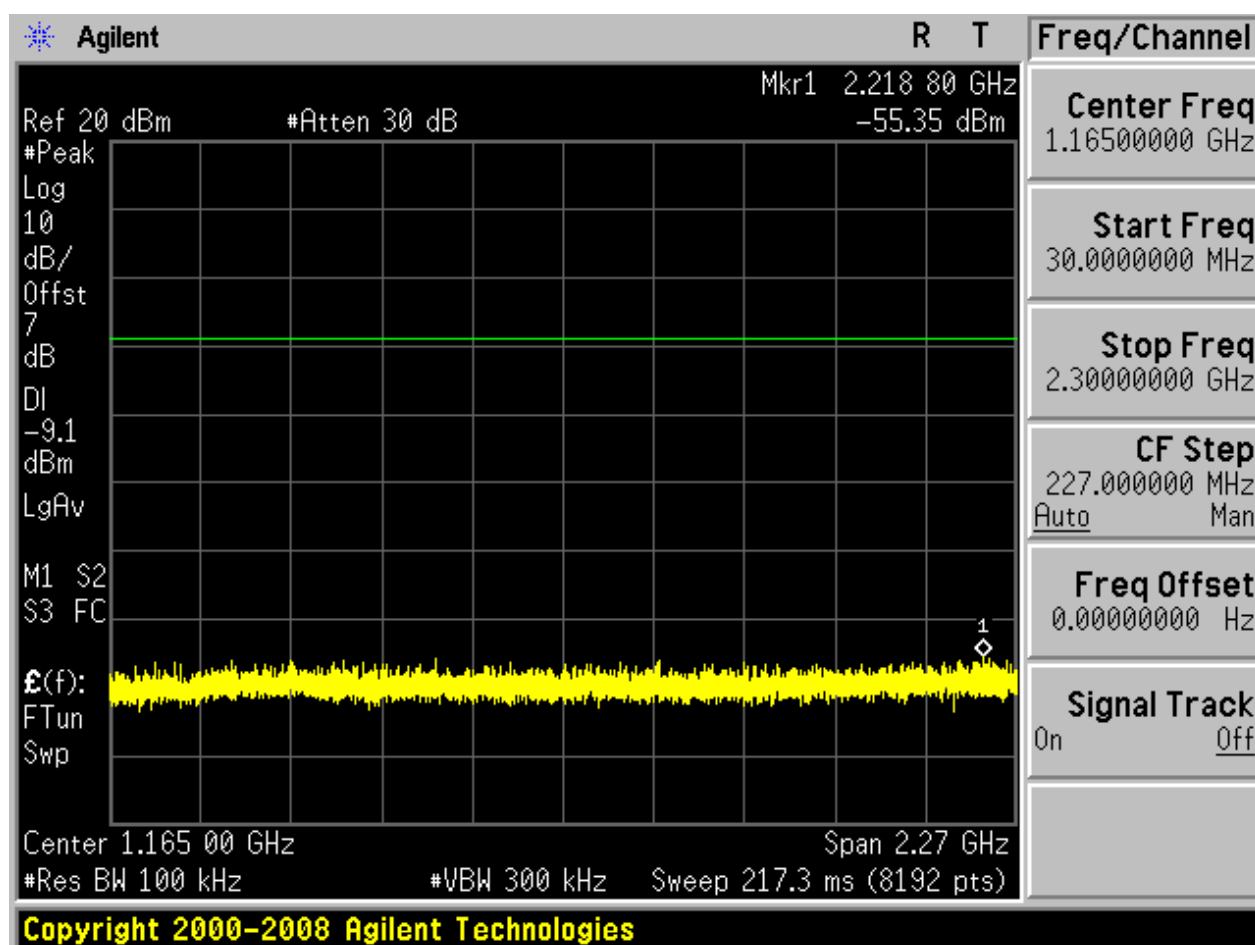
2.3.1 Pref

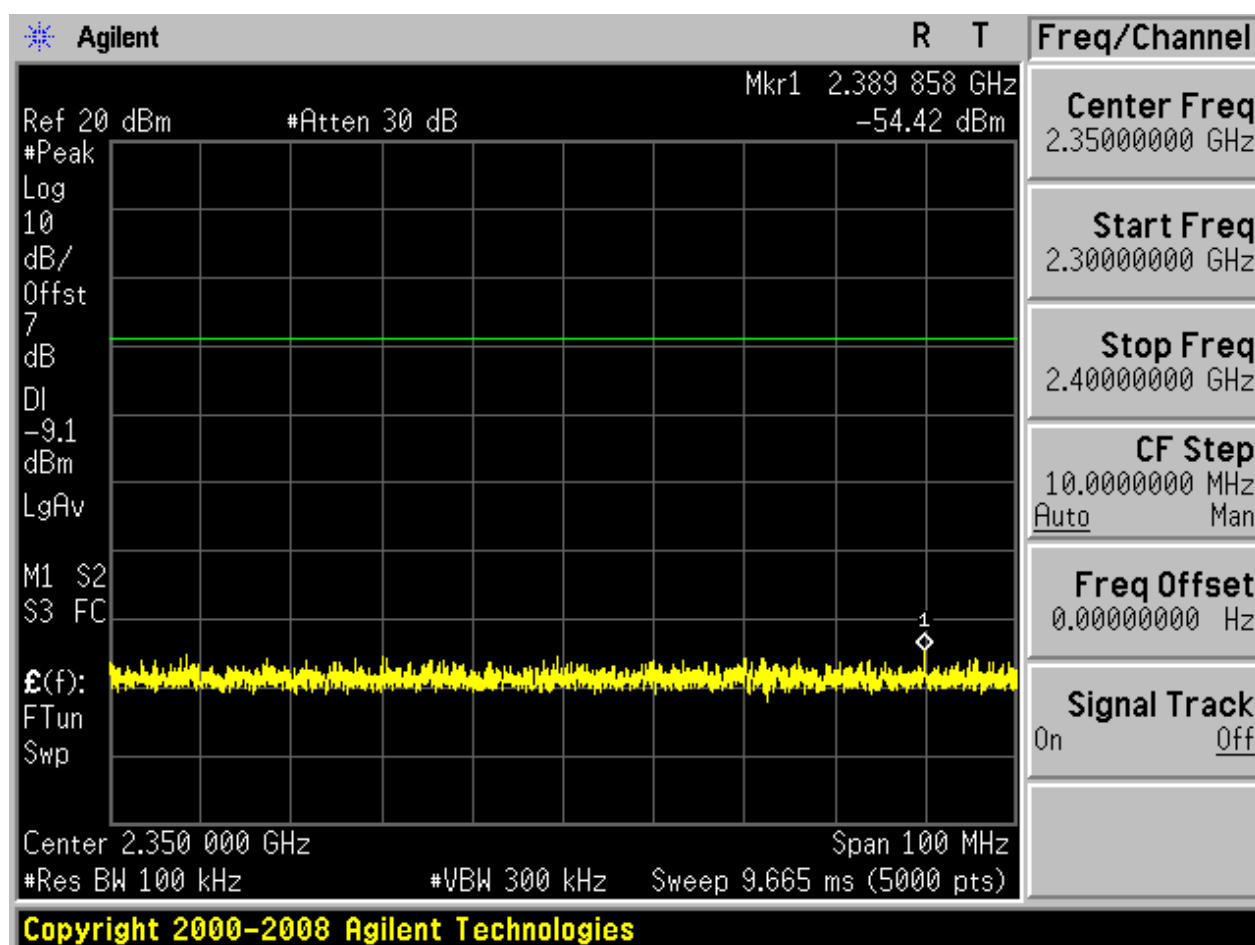


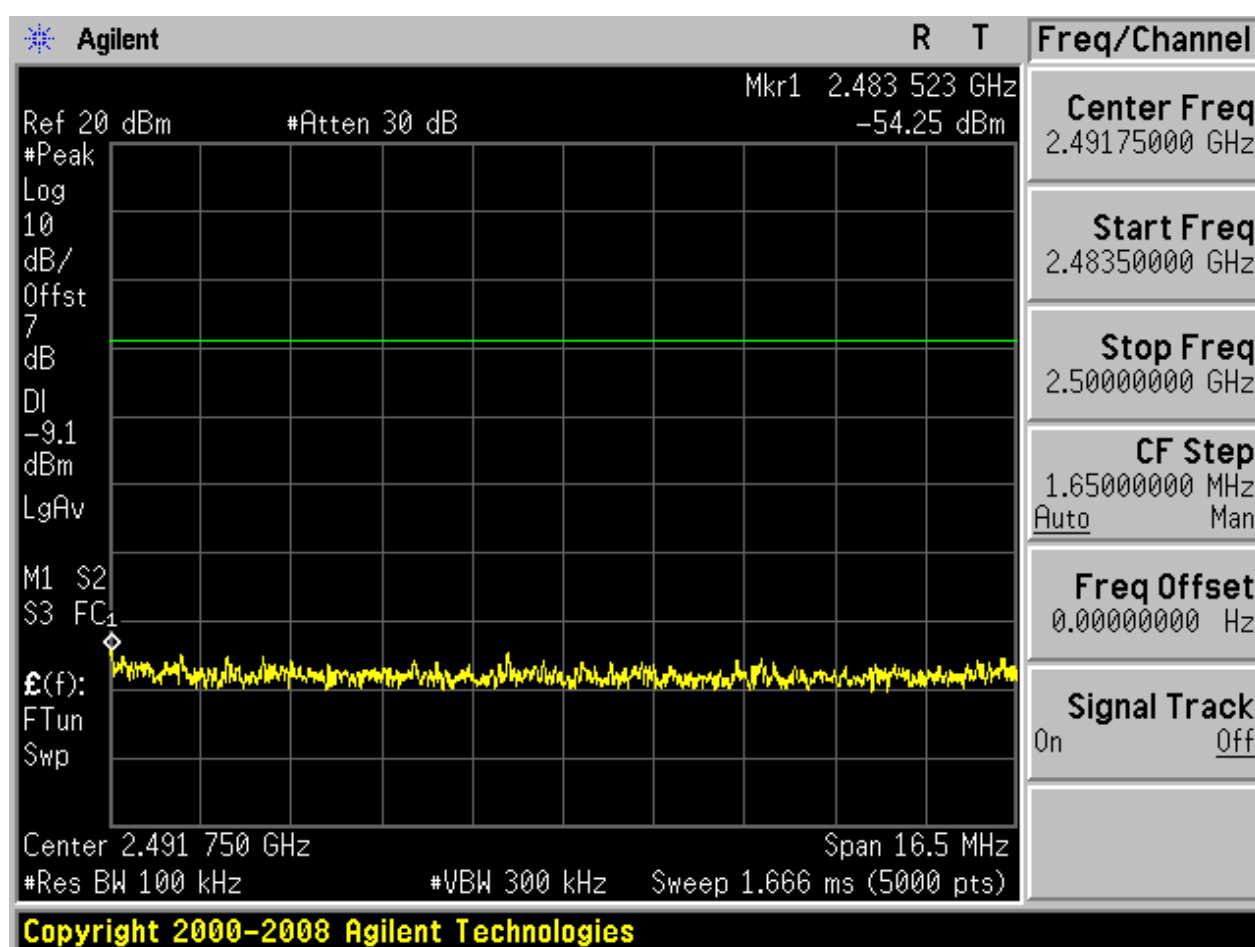
2.3.2 Puw

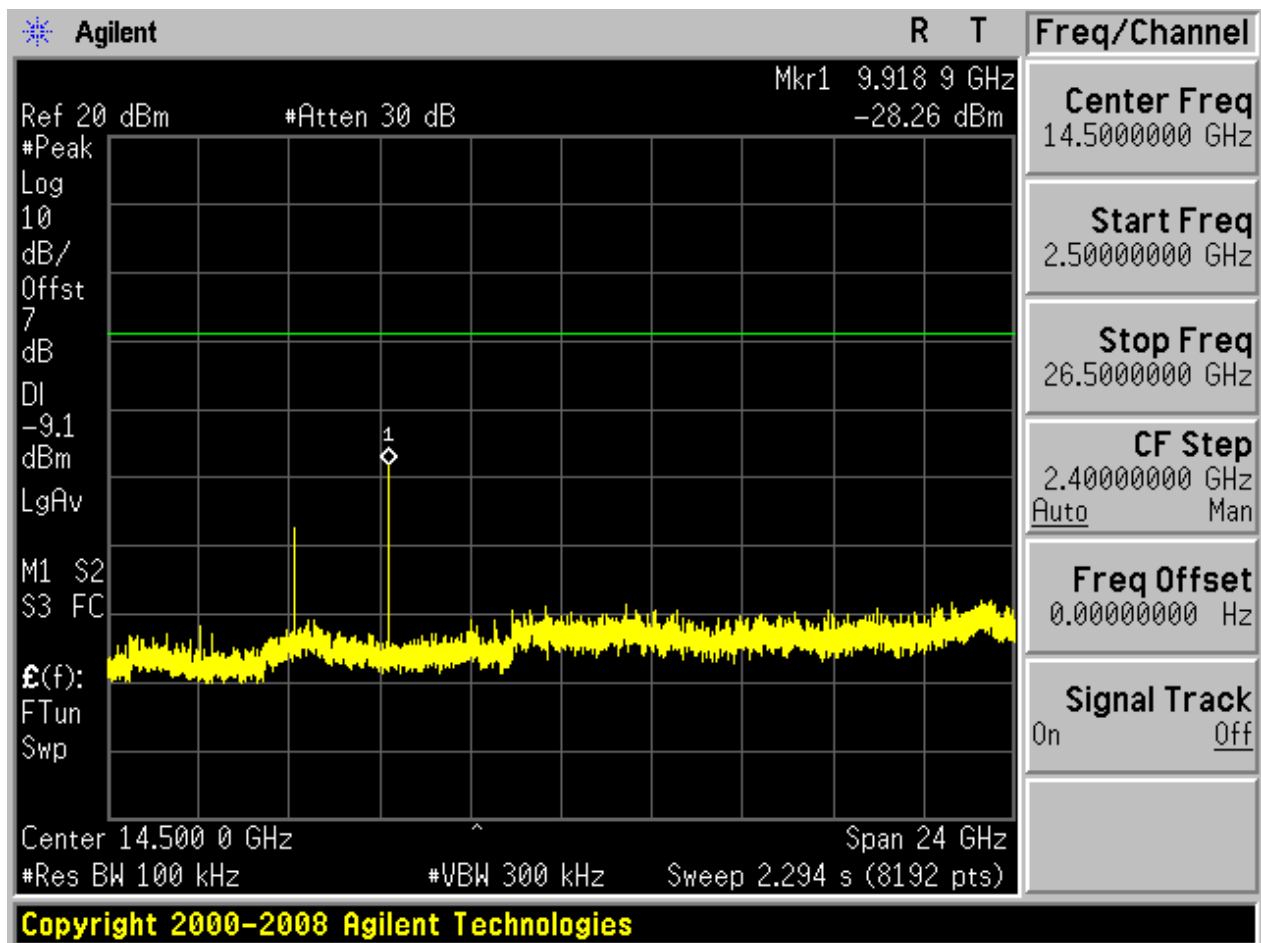






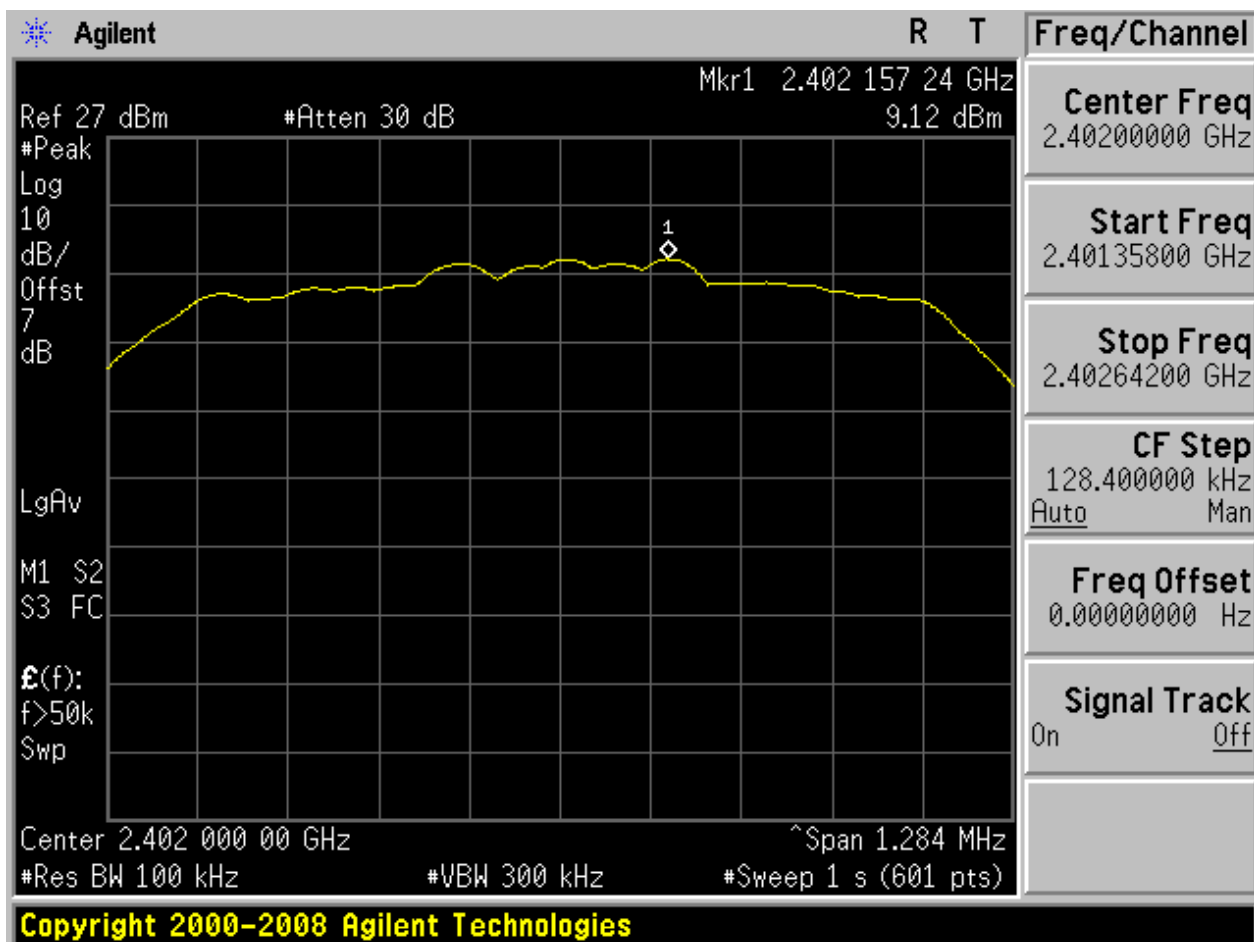




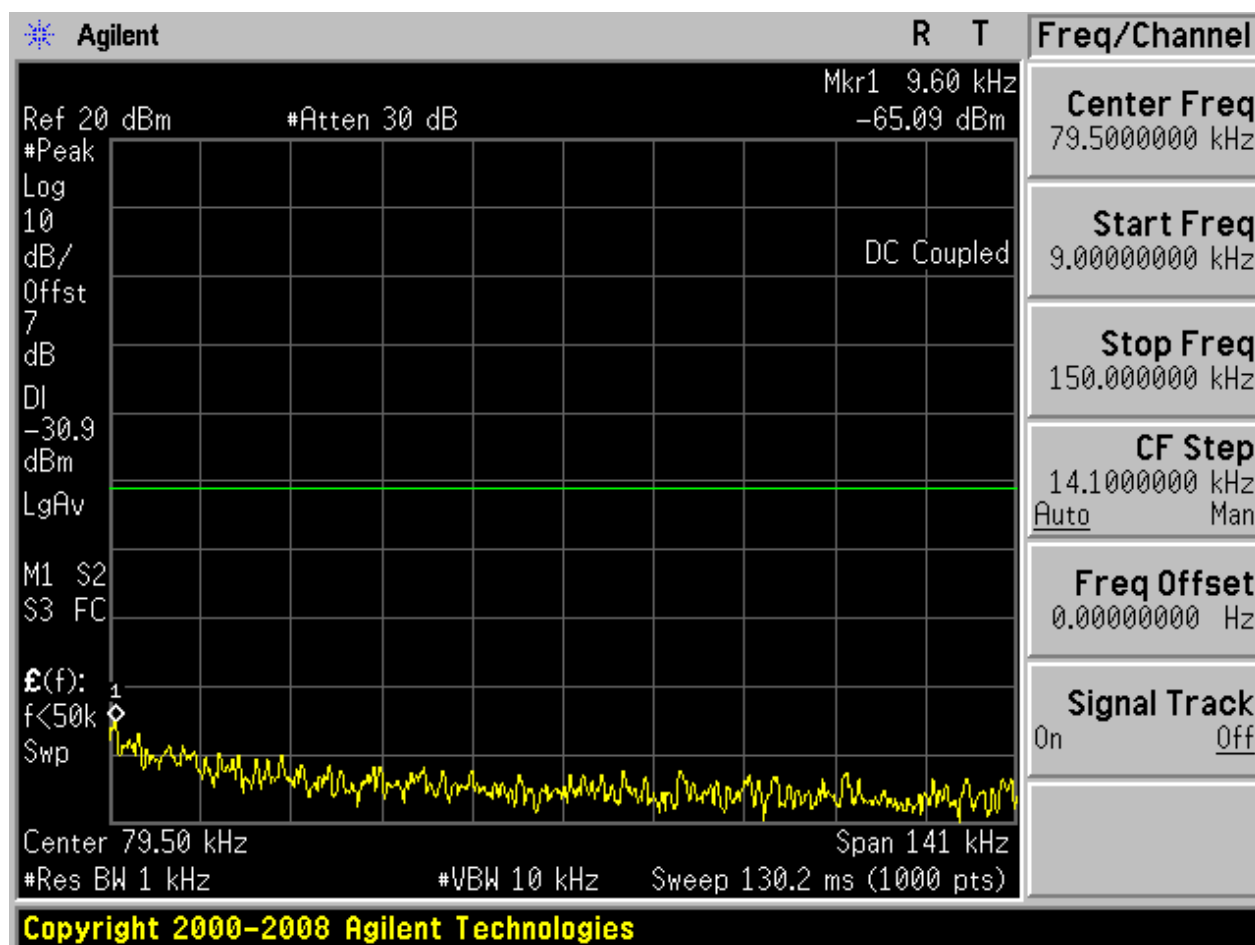


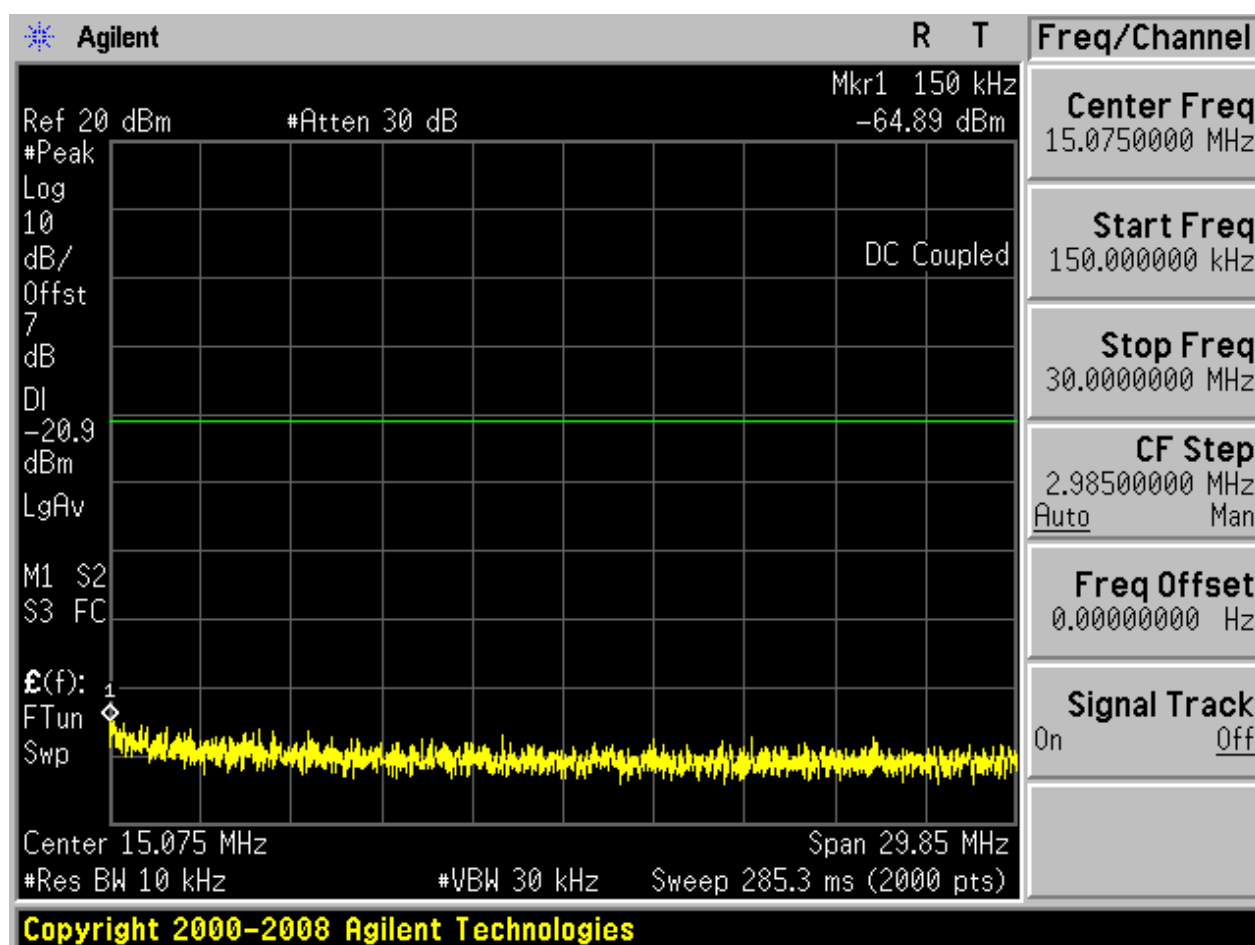
2.4 TM2_2DH5_Ch0

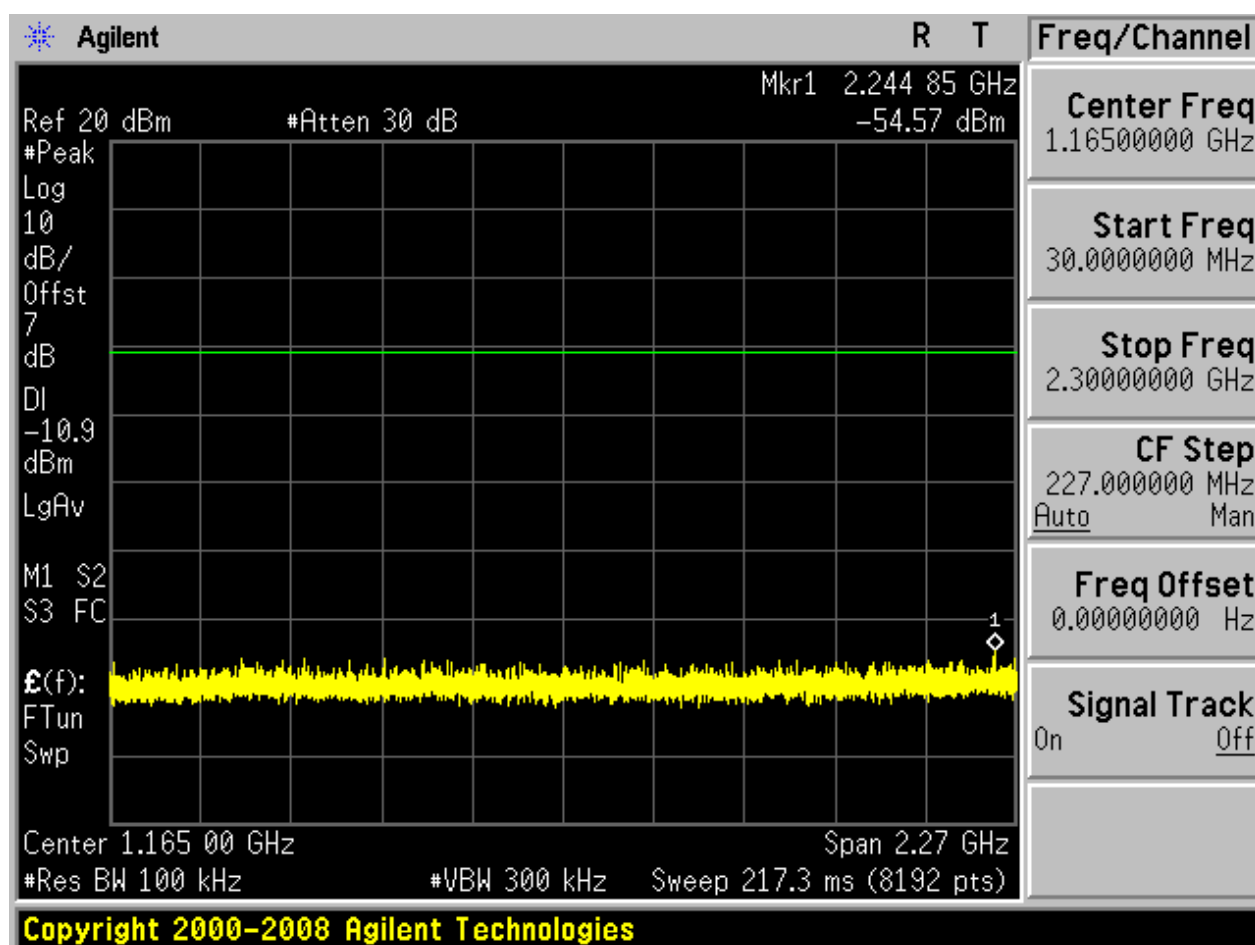
2.4.1 Pref

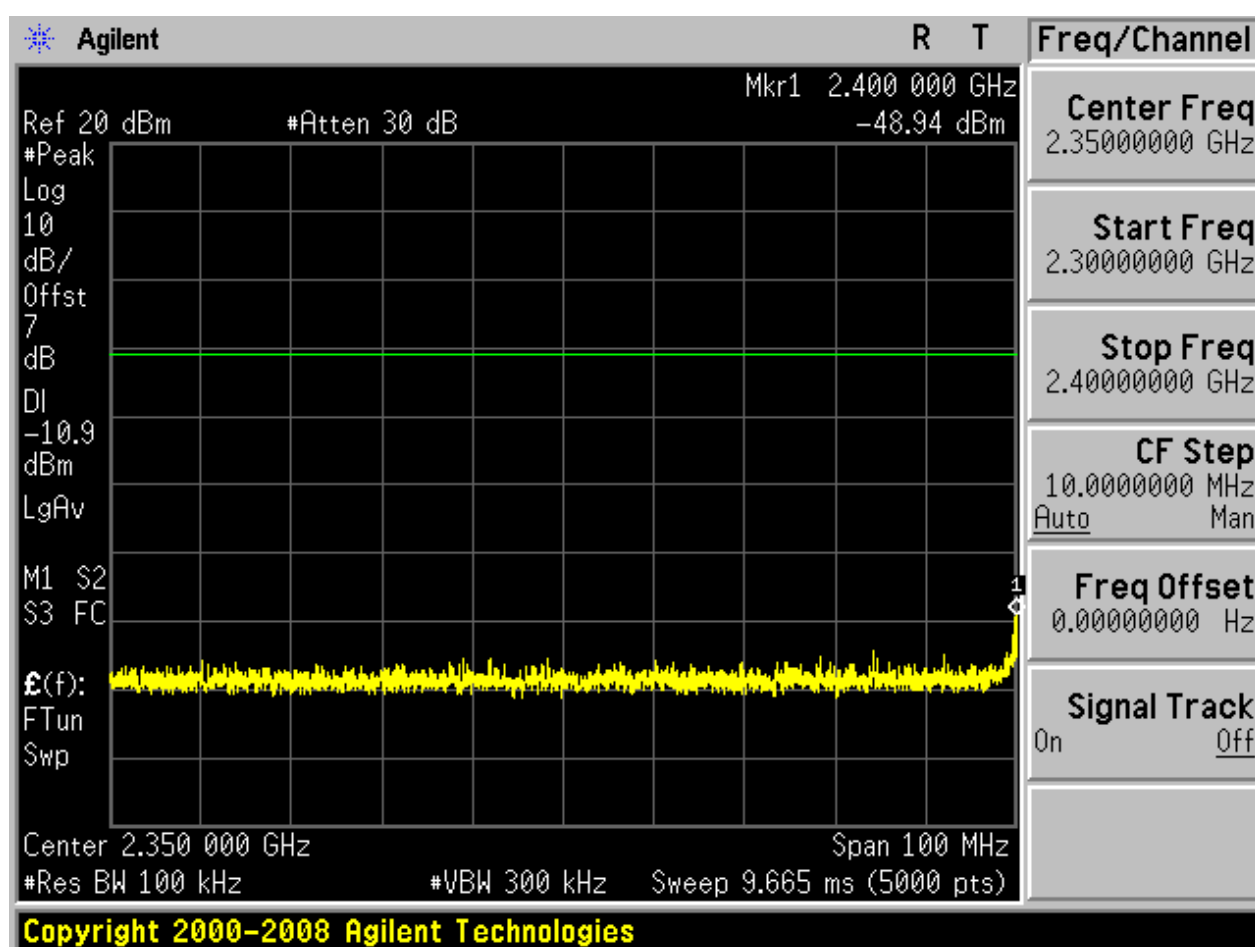


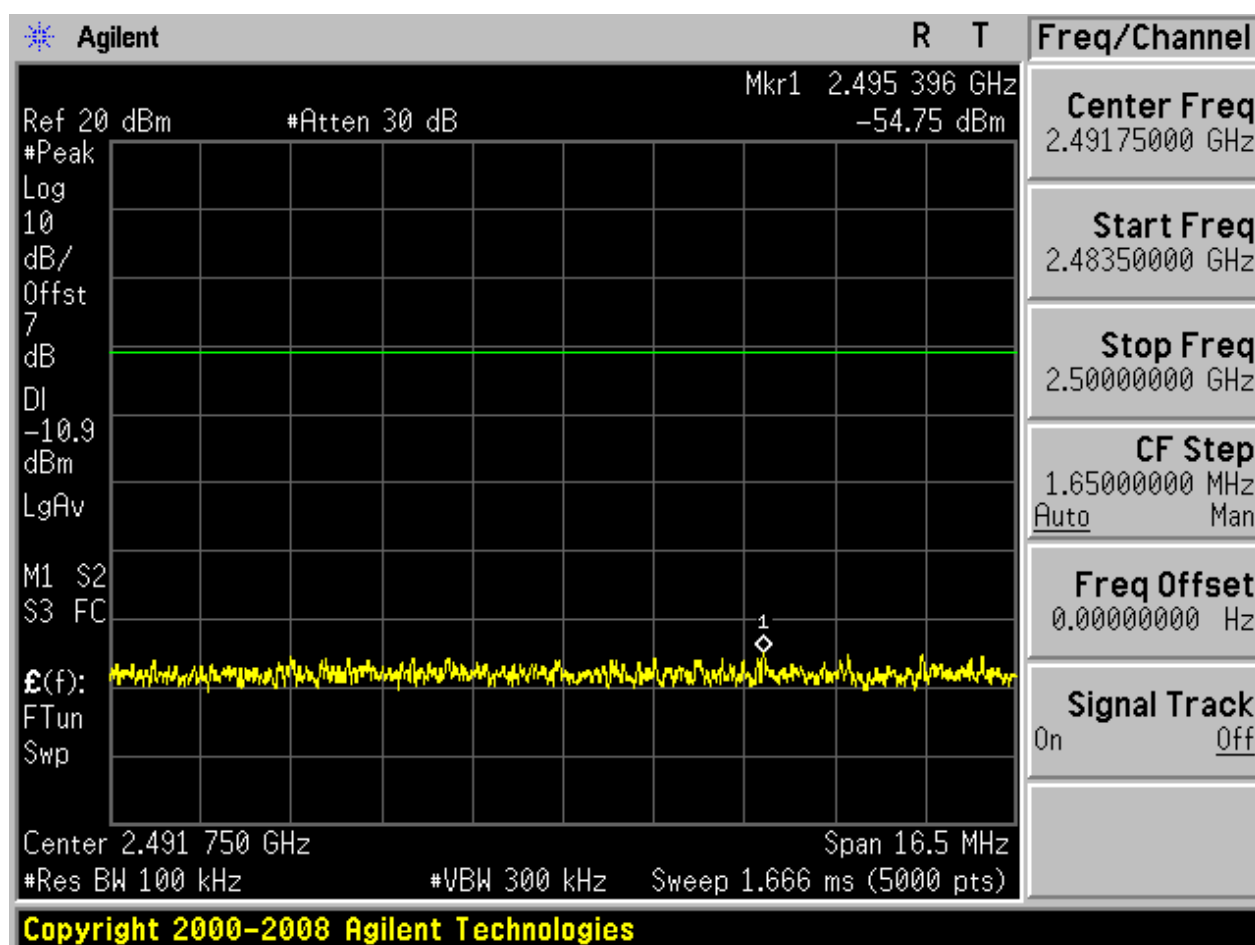
2.4.2 Puw

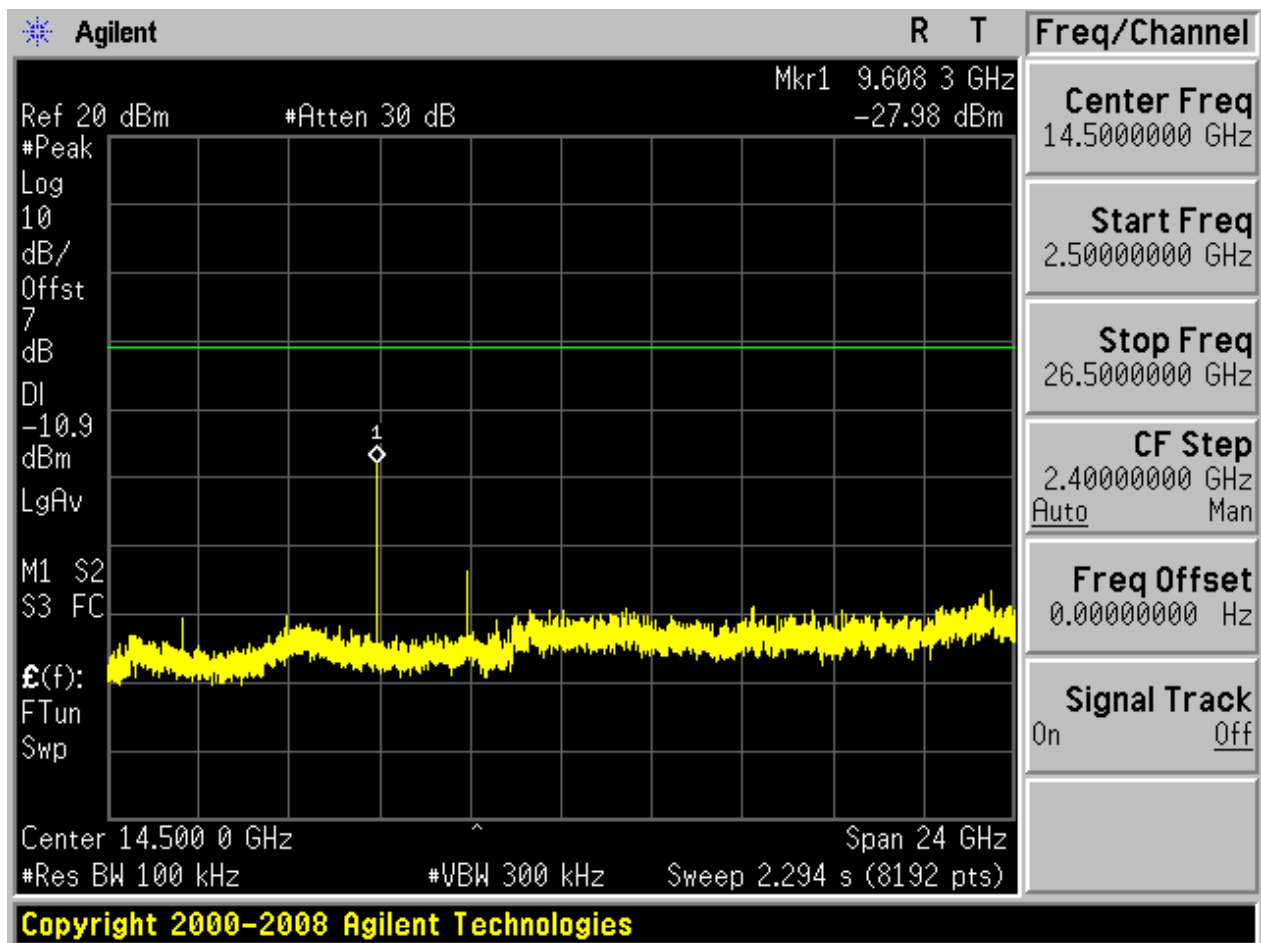






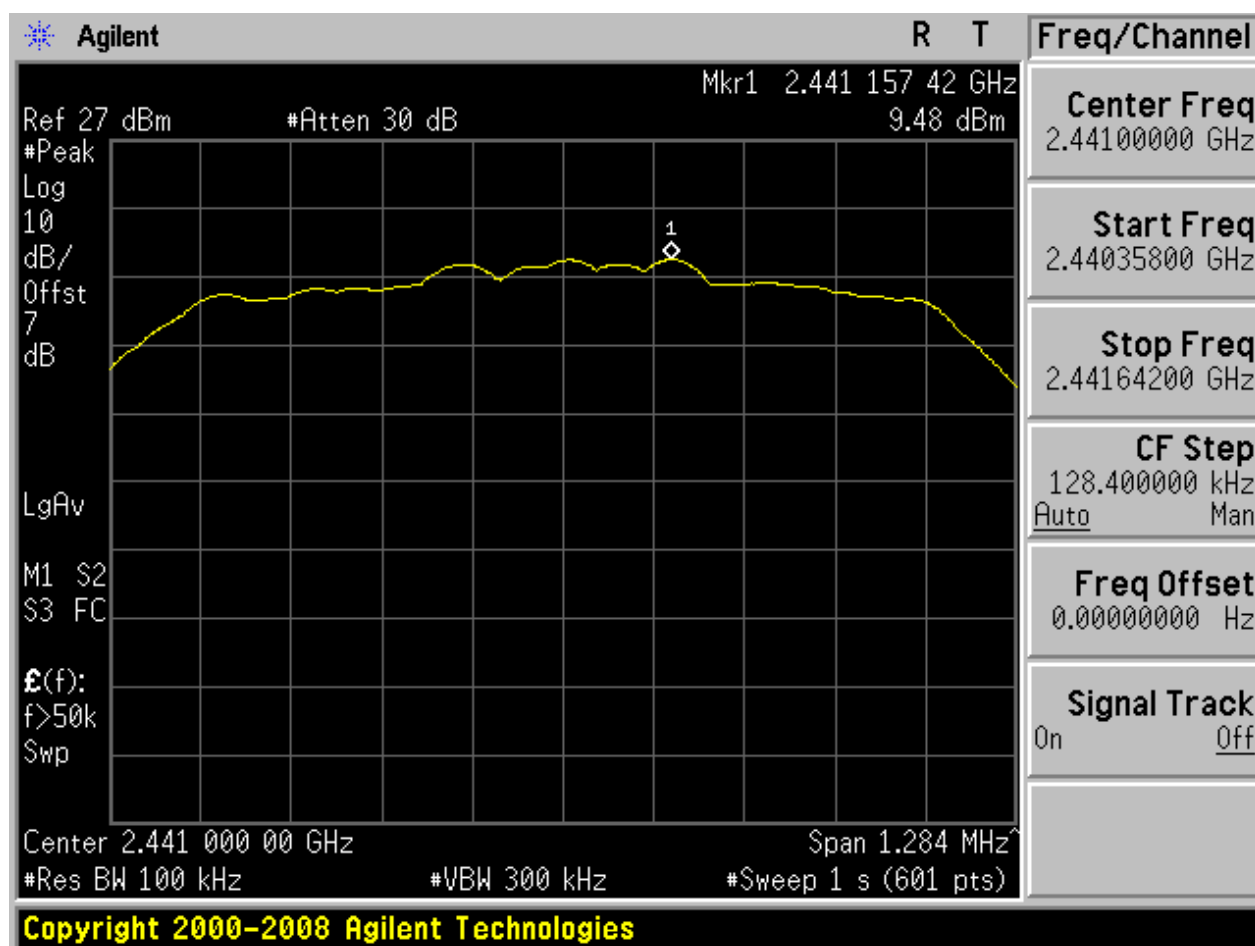




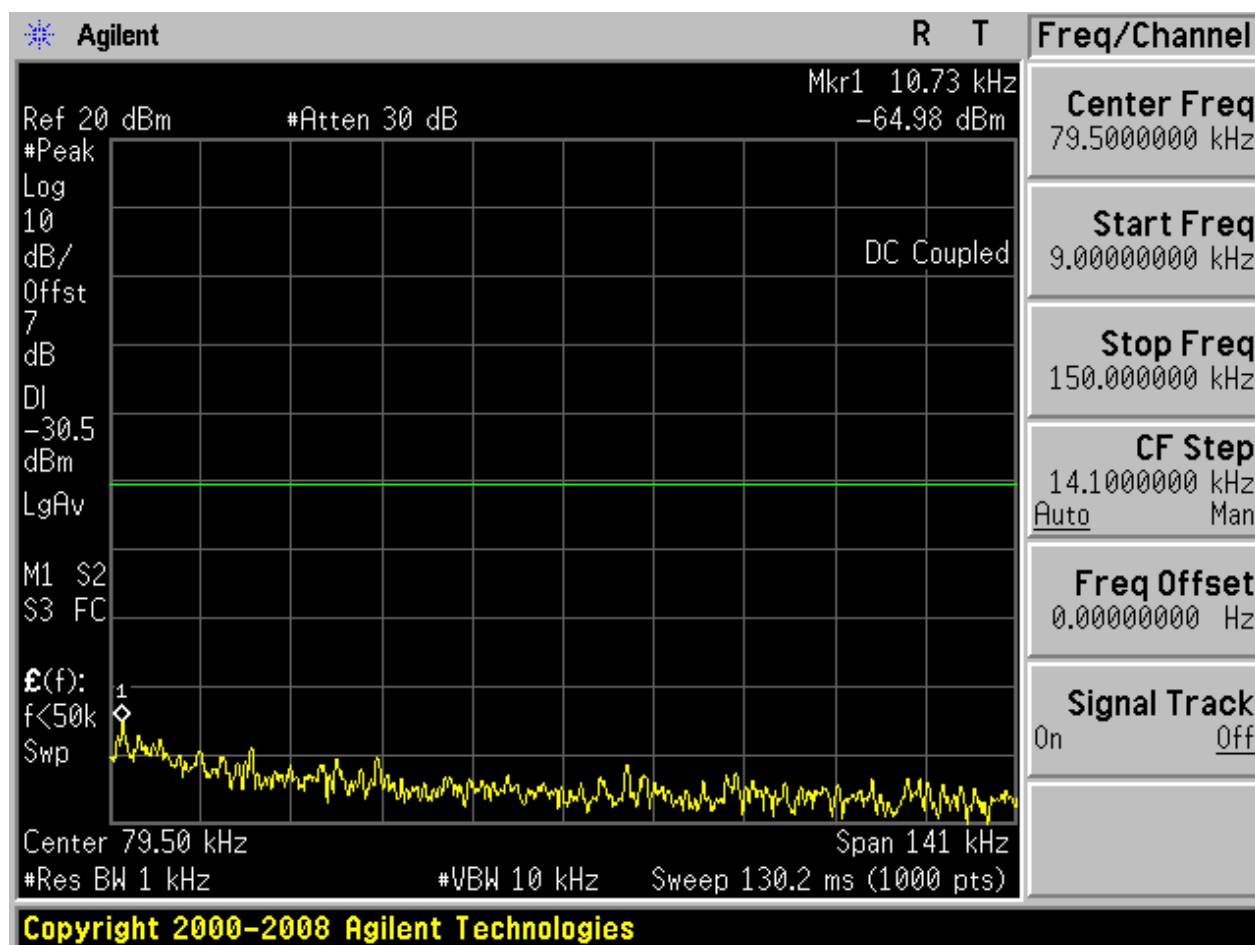


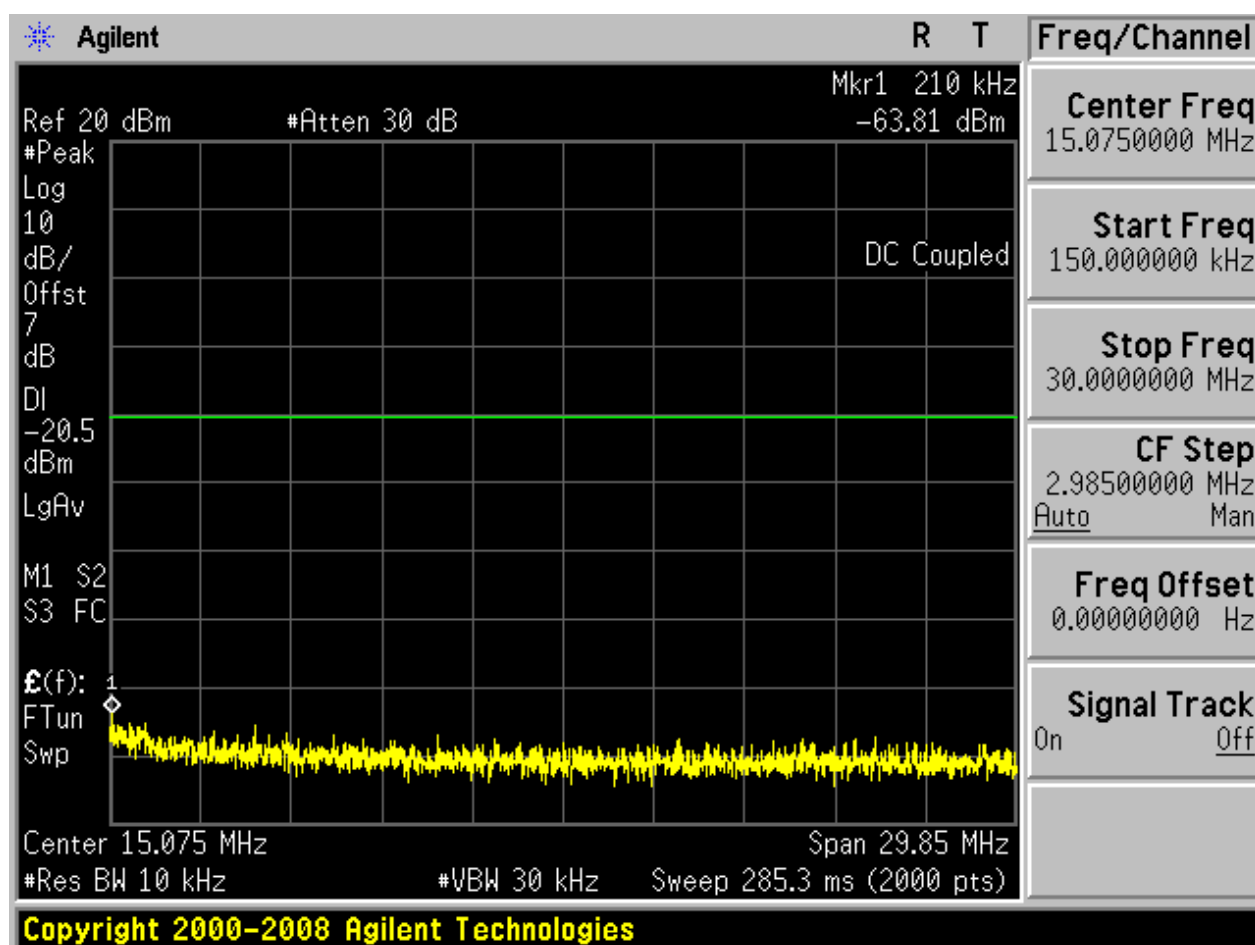
2.5 TM2_2DH5_Ch39

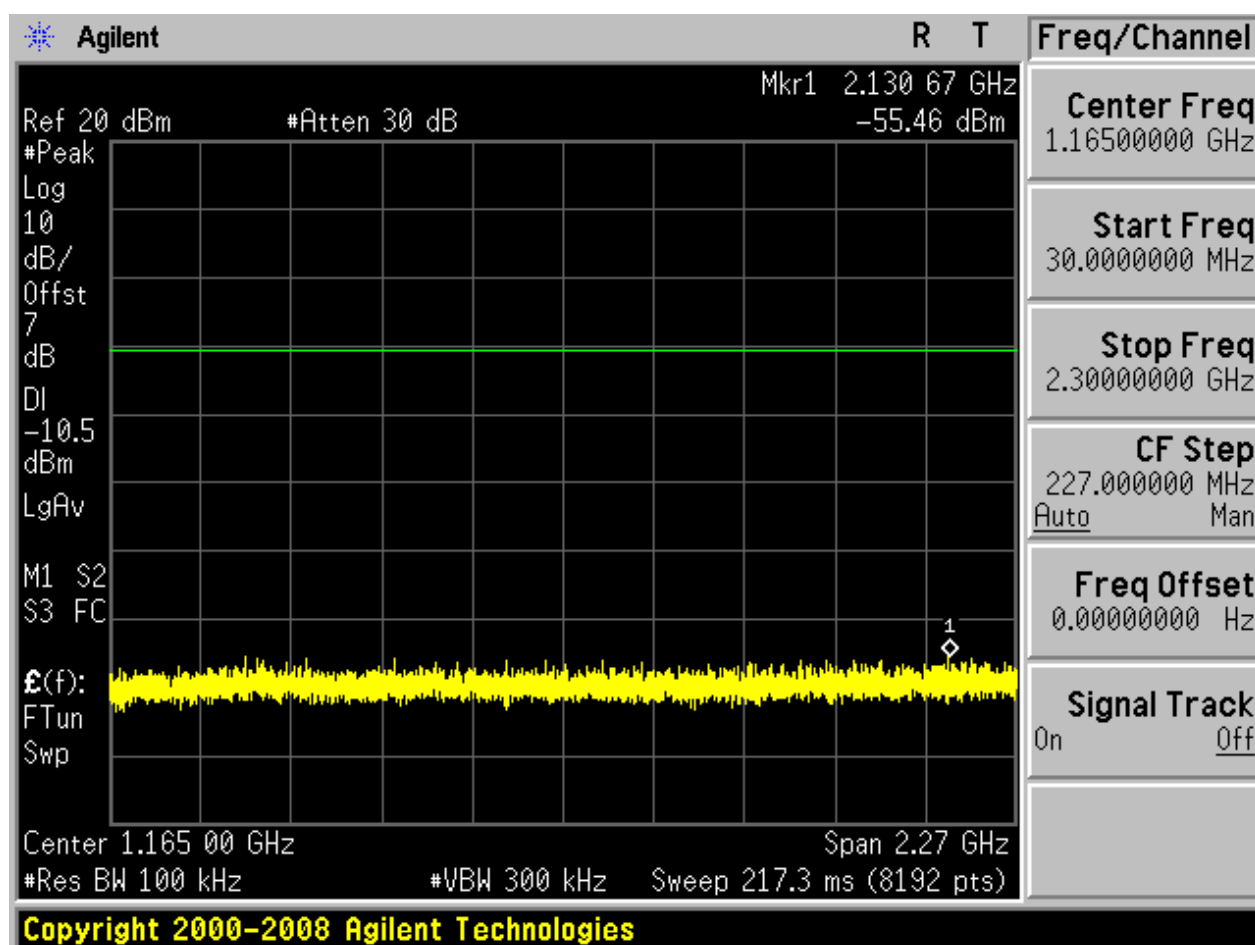
2.5.1 Pref

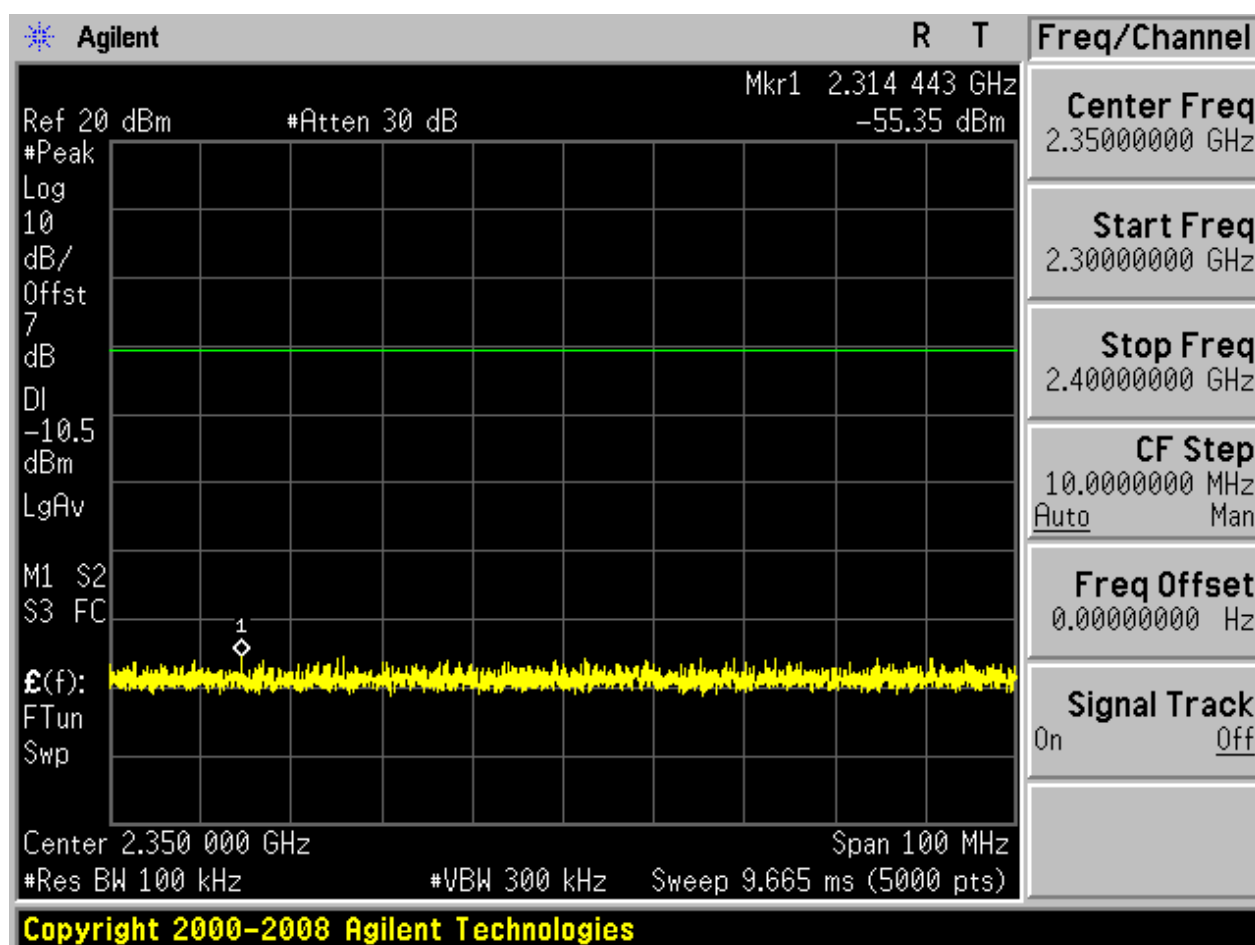


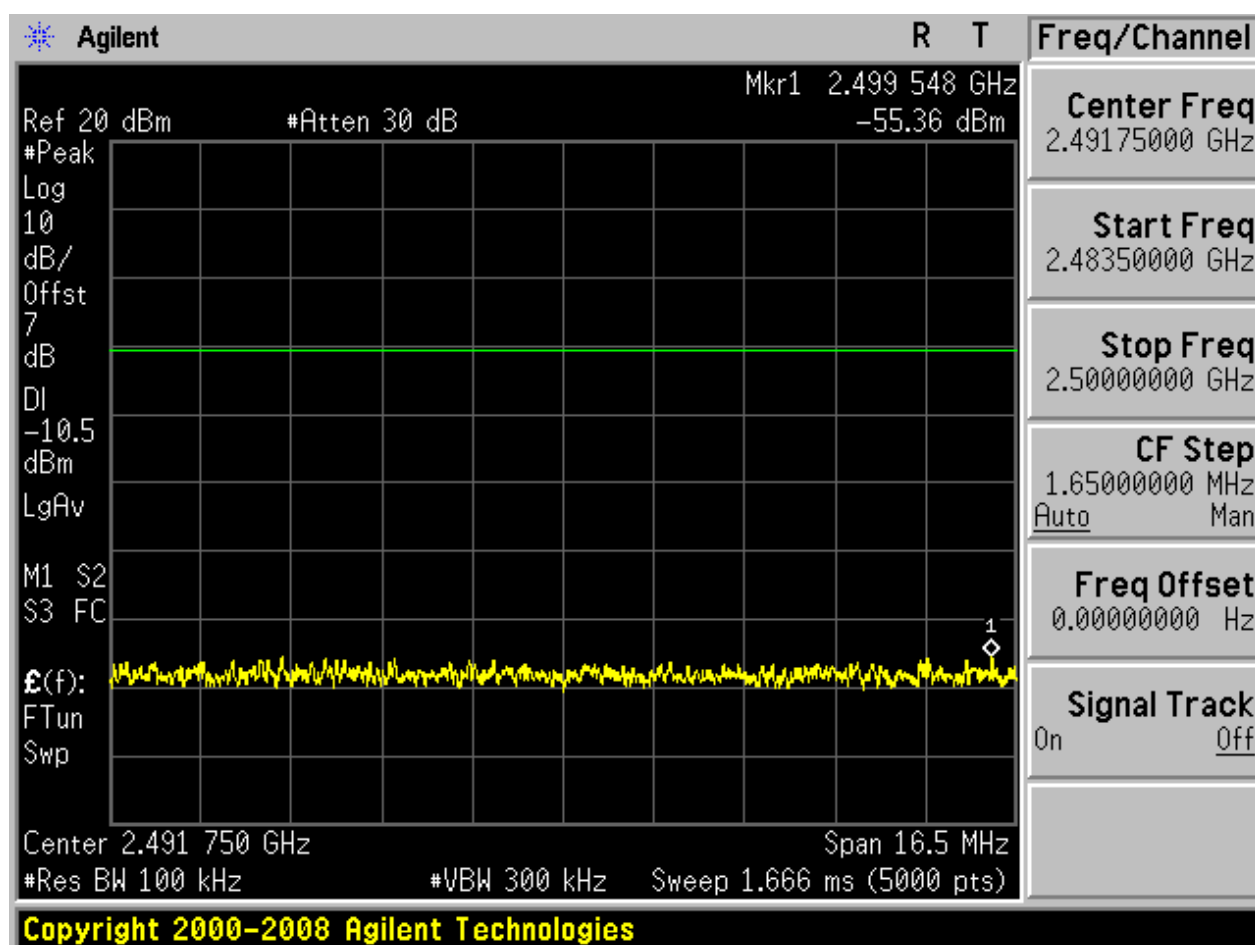
2.5.2 Puw

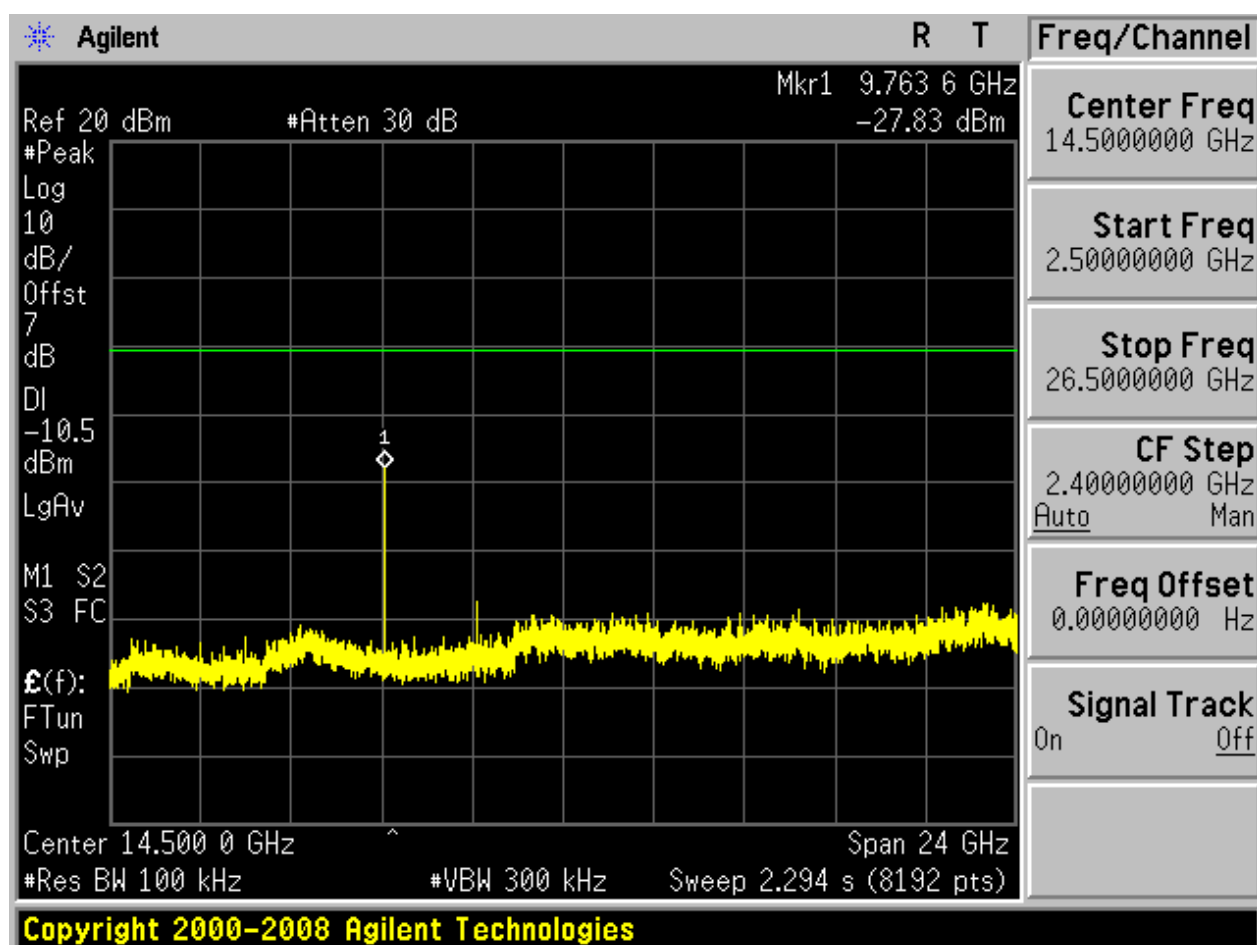






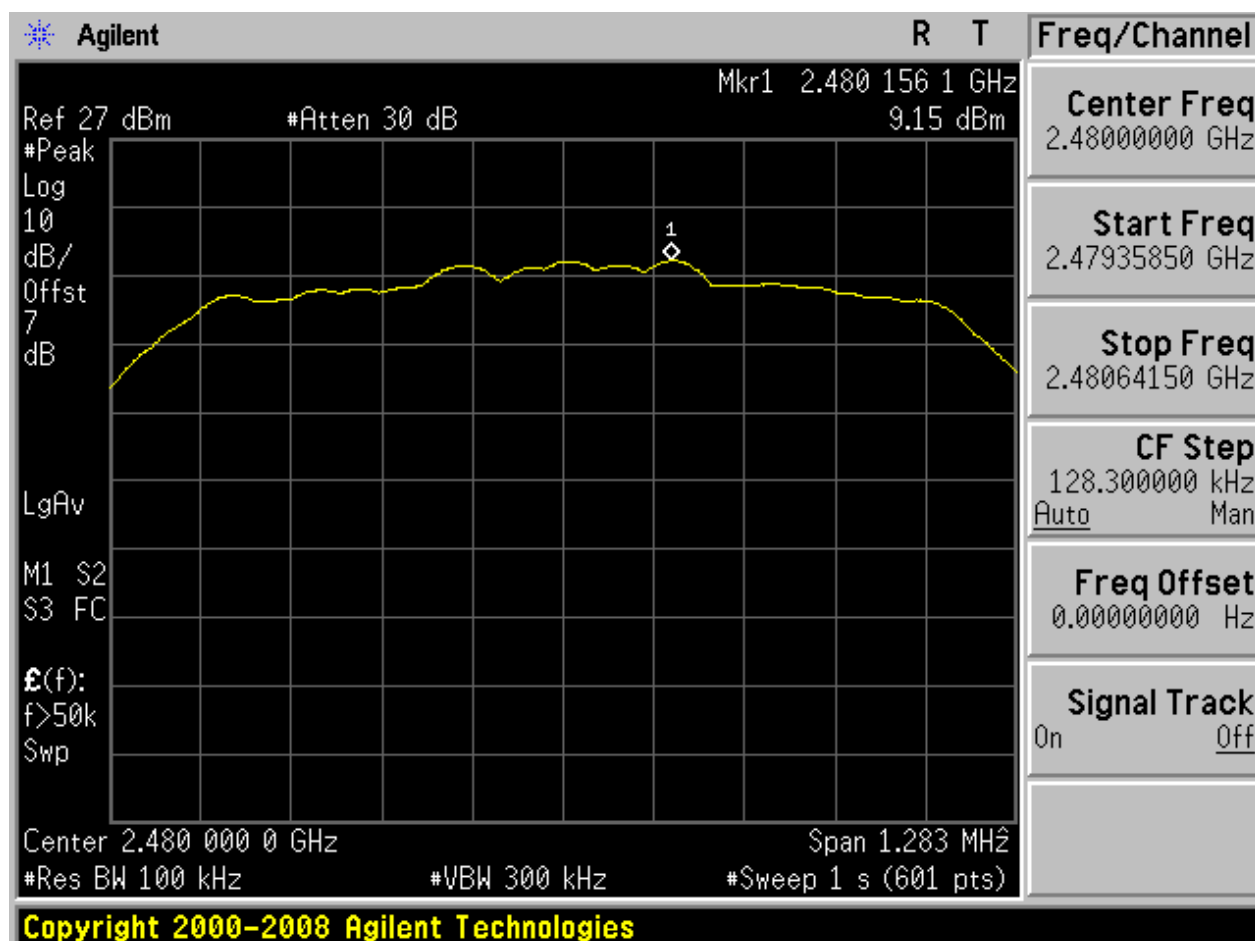




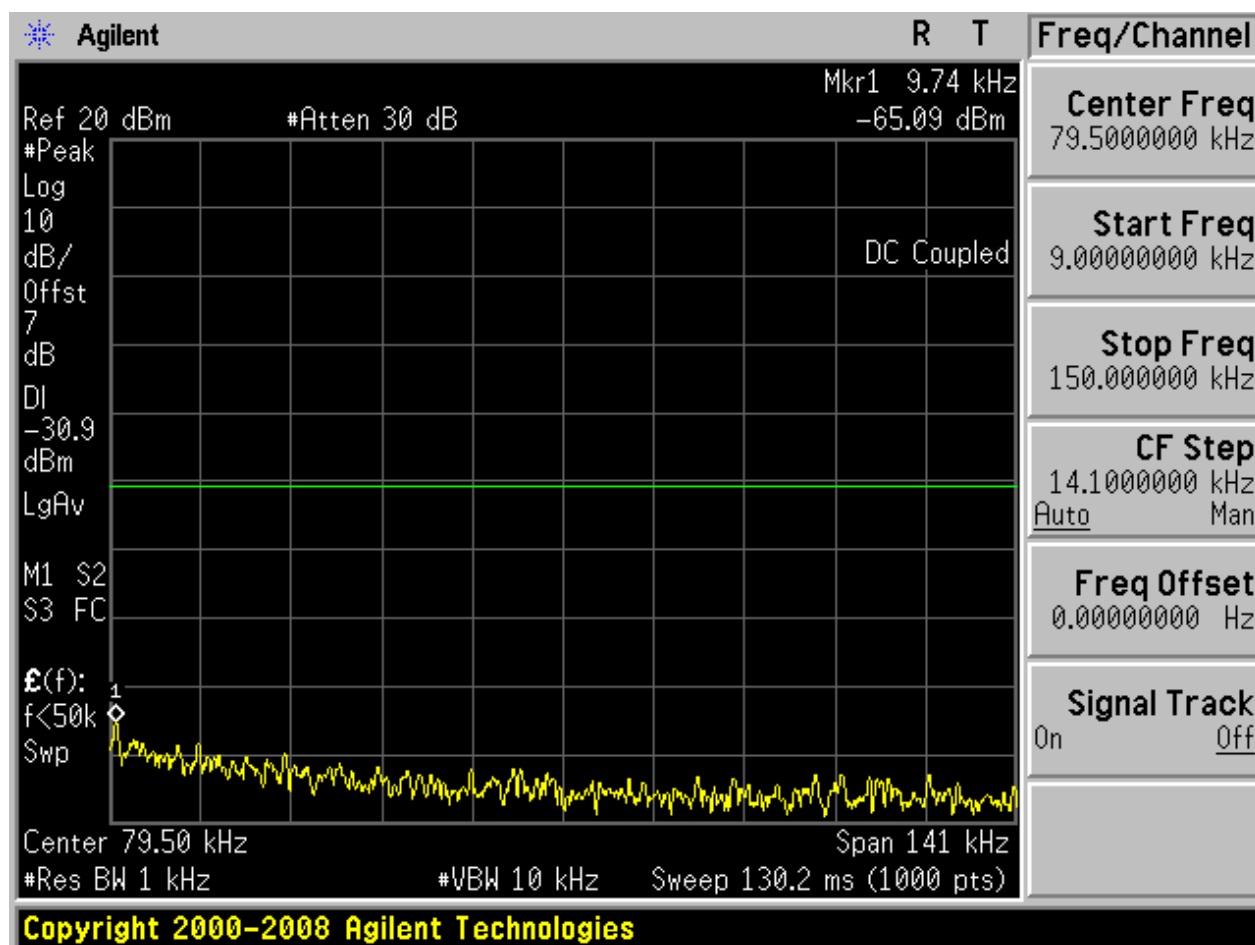


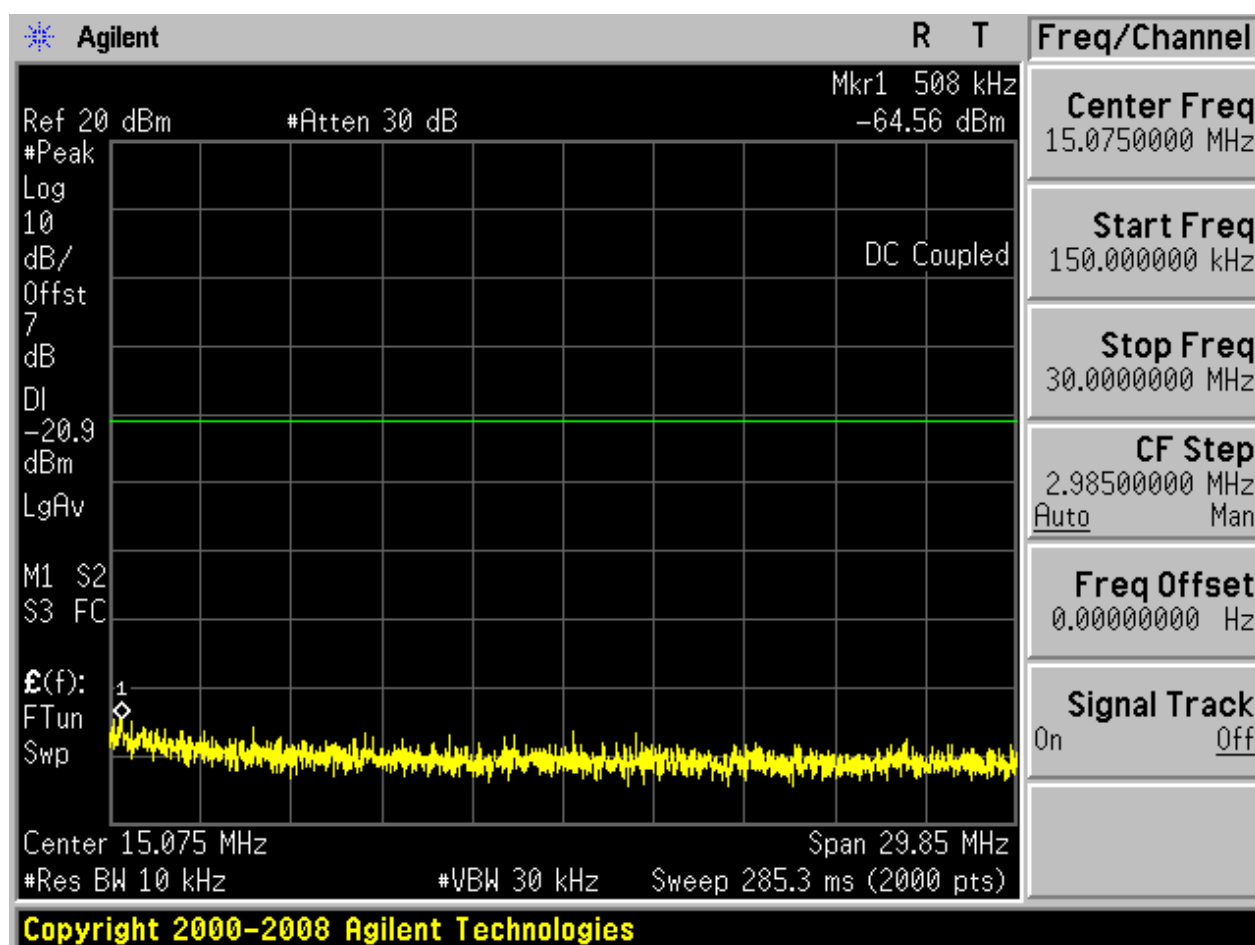
2.6 TM2_2DH5_Ch78

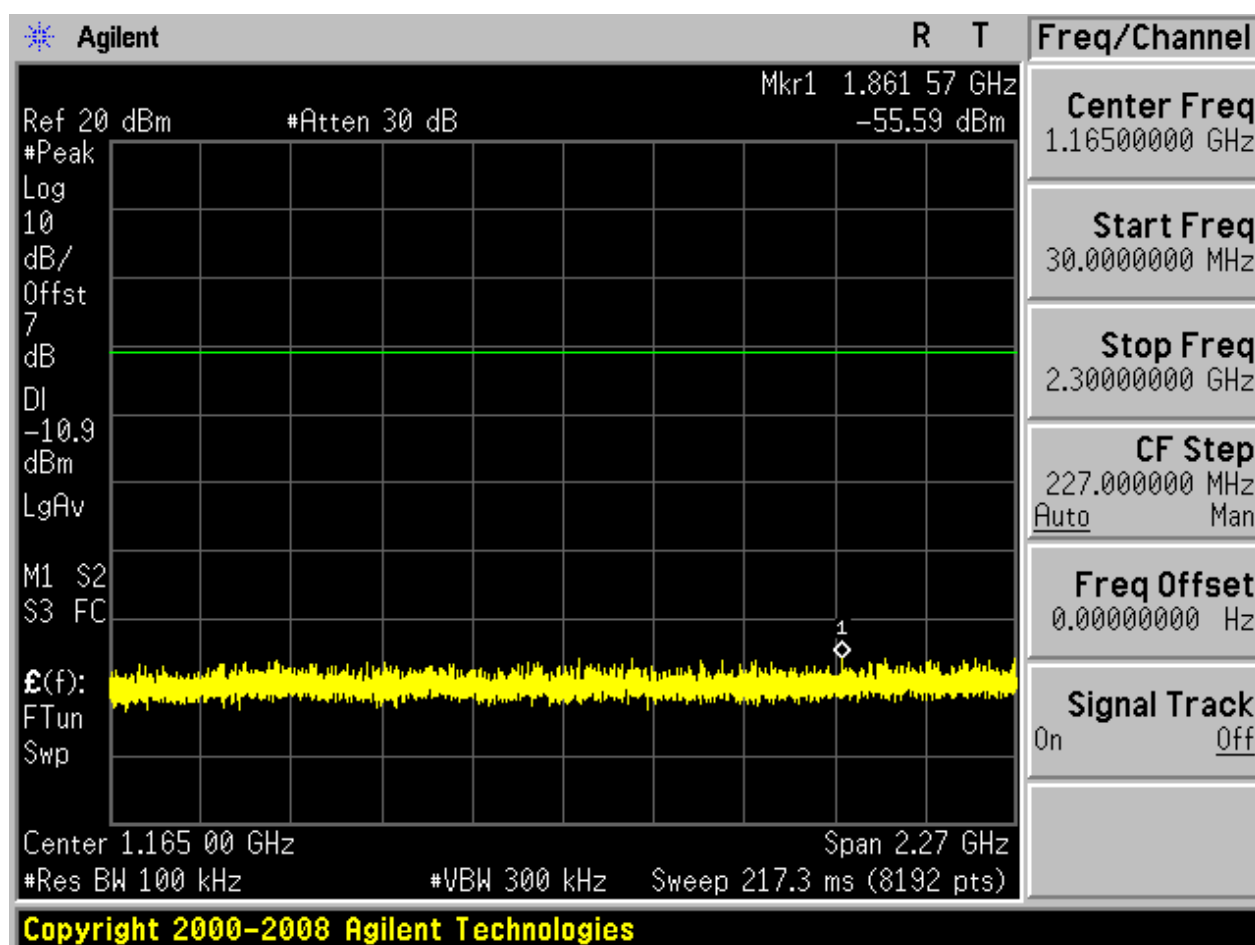
2.6.1 Pref

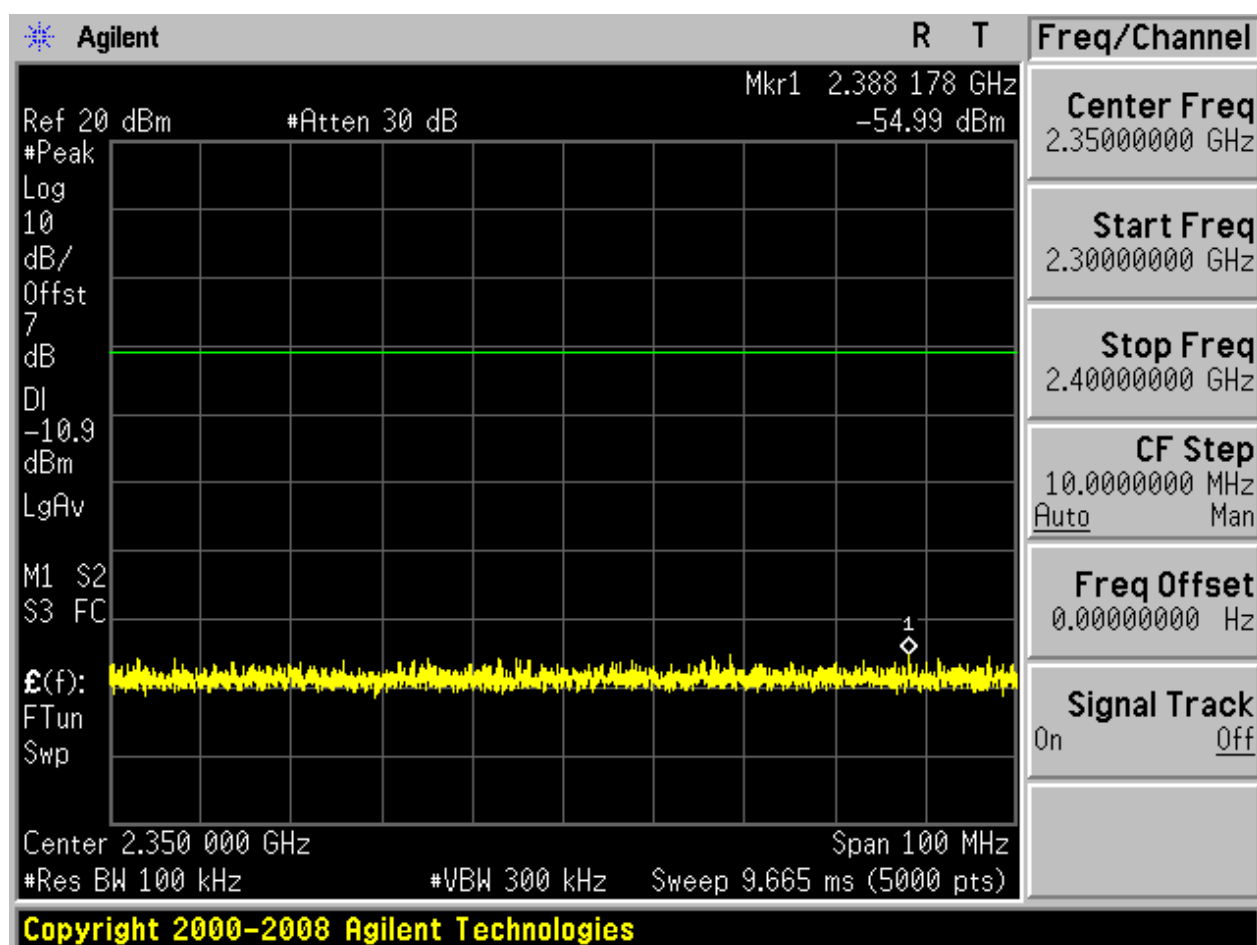


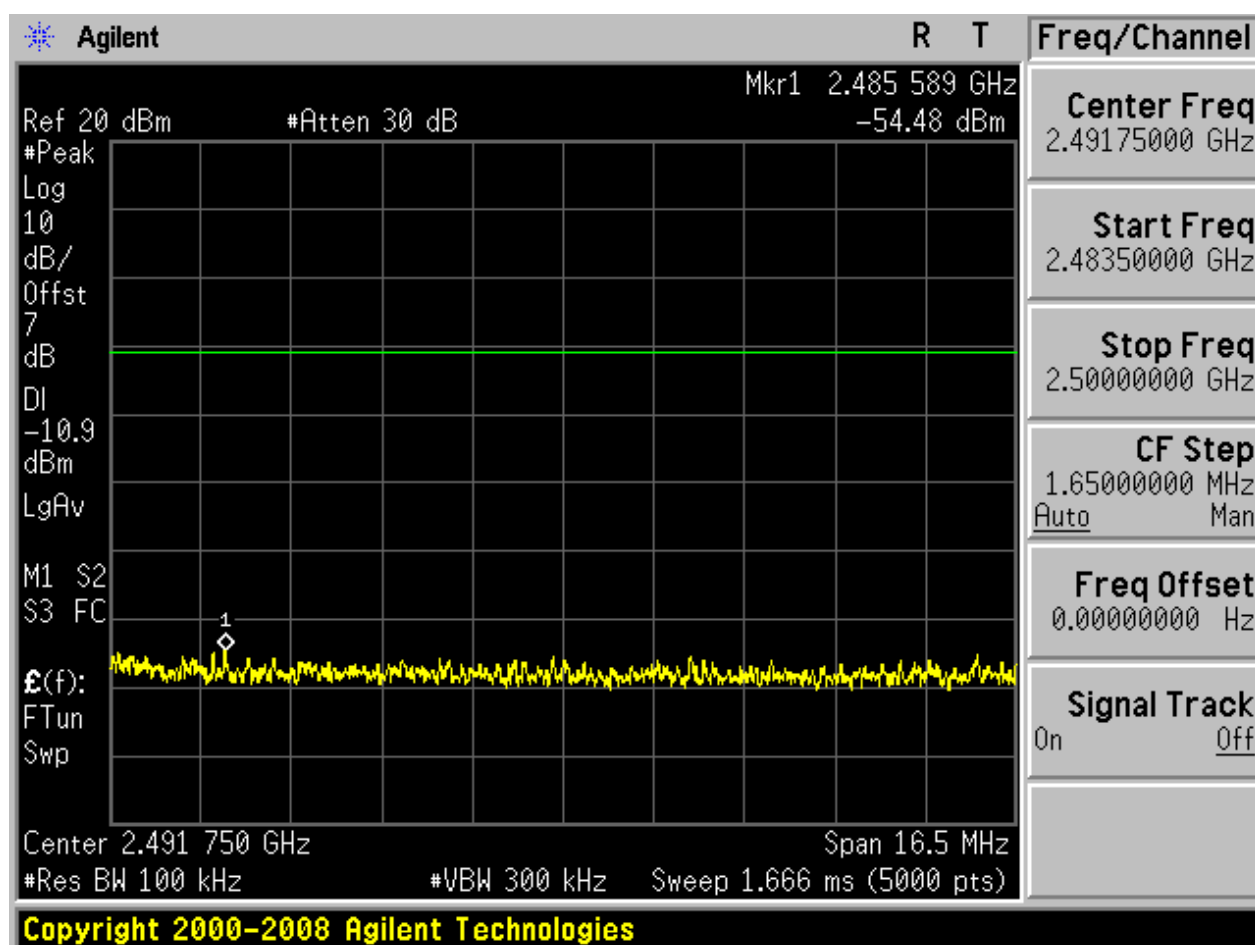
2.6.2 Puw

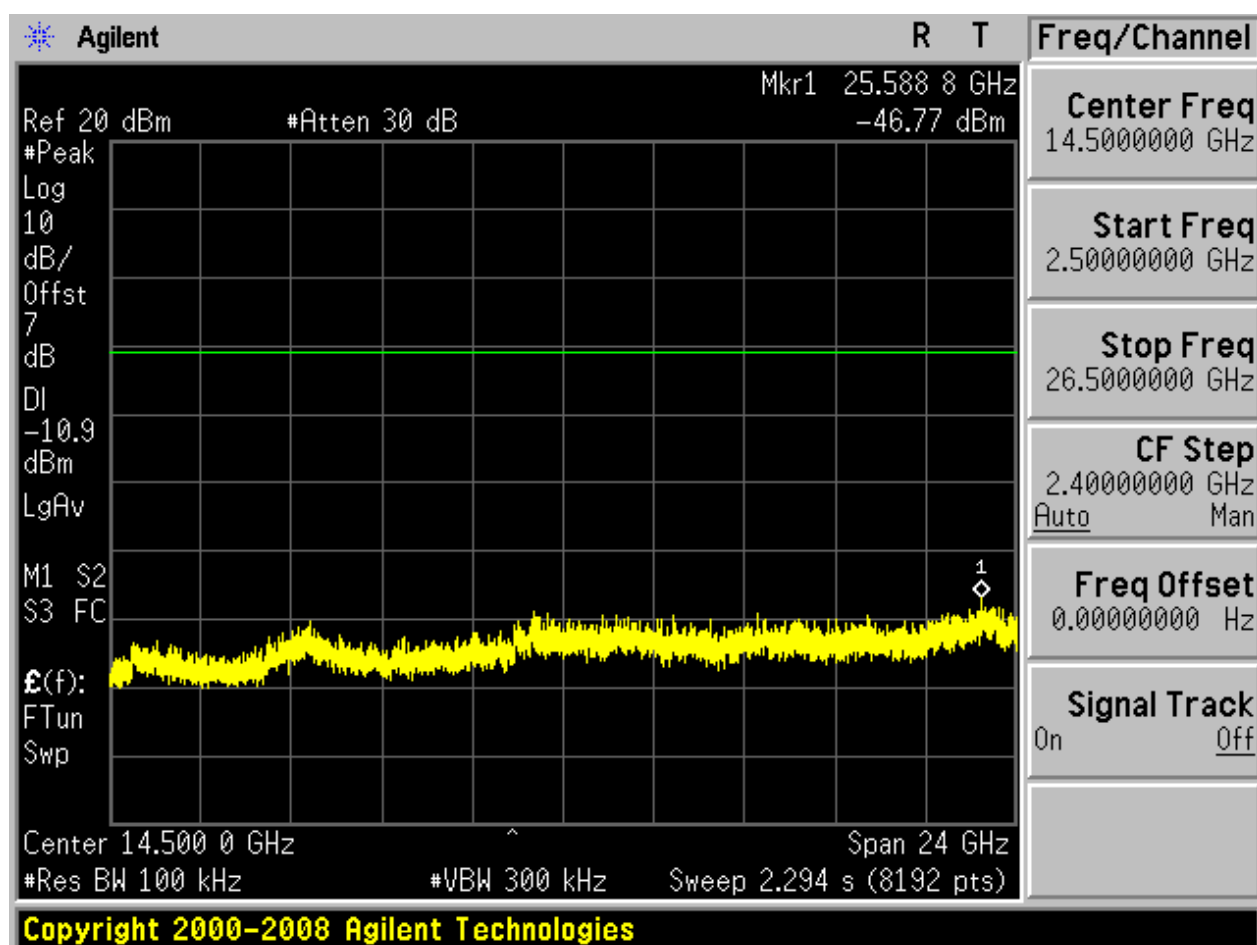






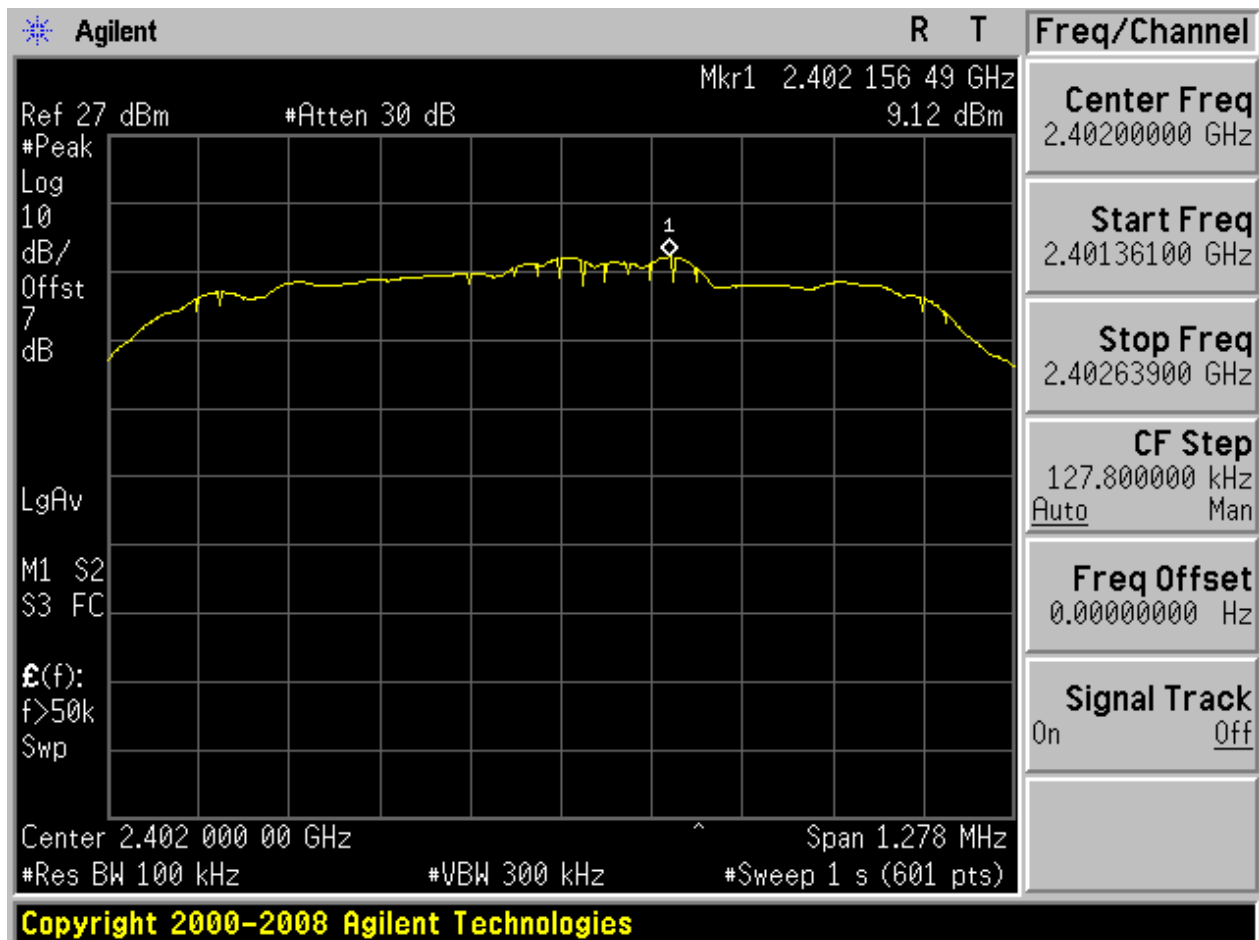




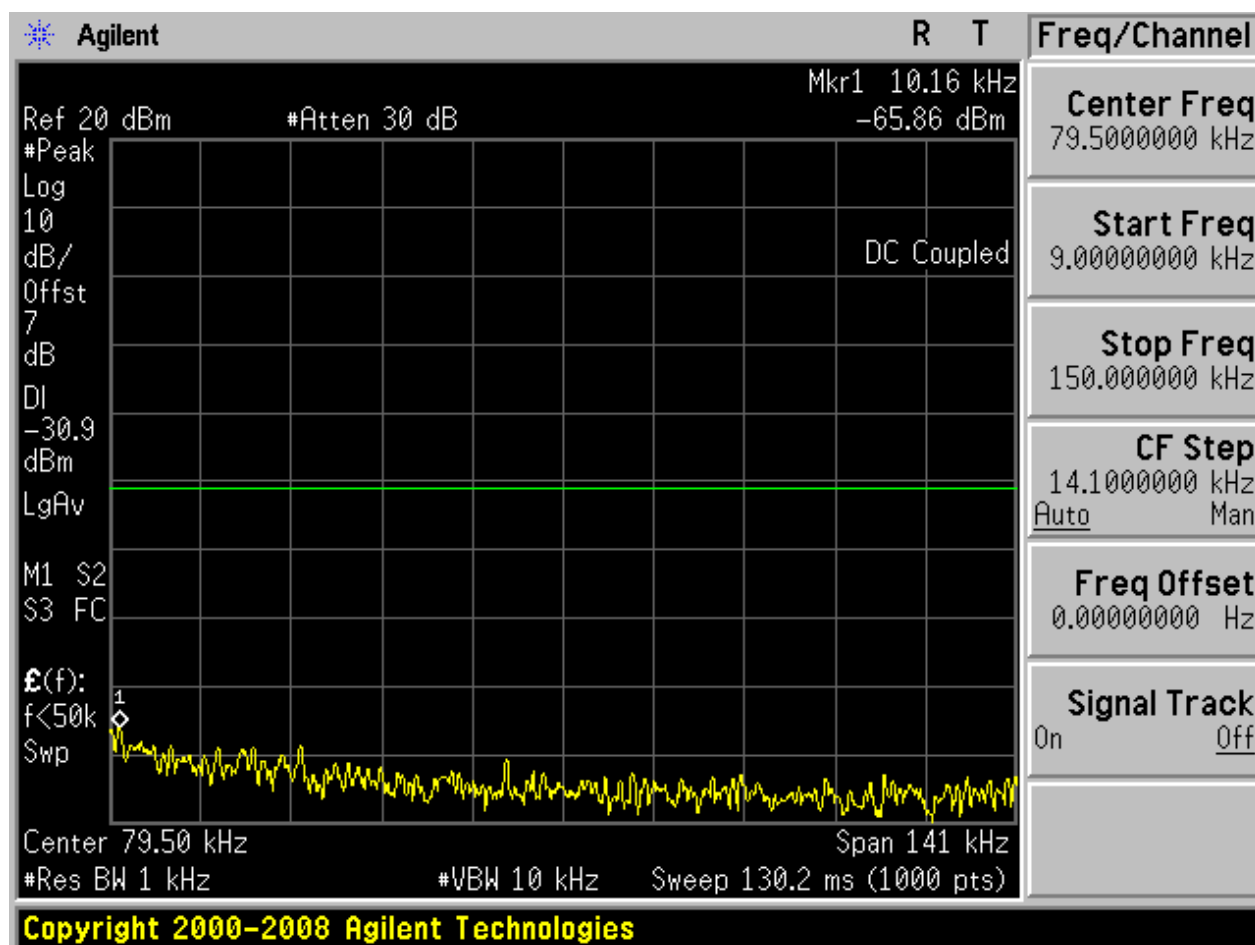


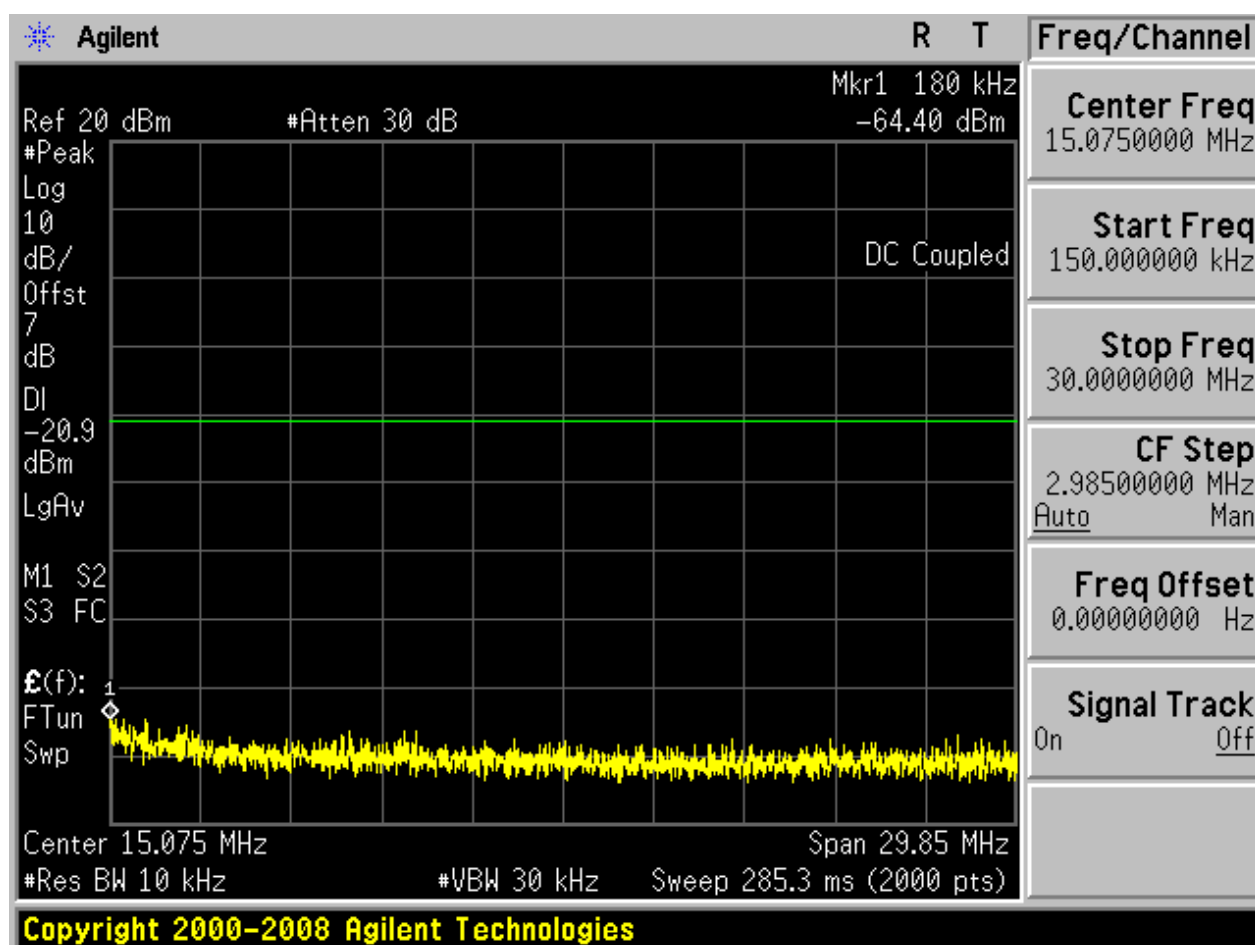
2.7 TM3_3DH5_Ch0

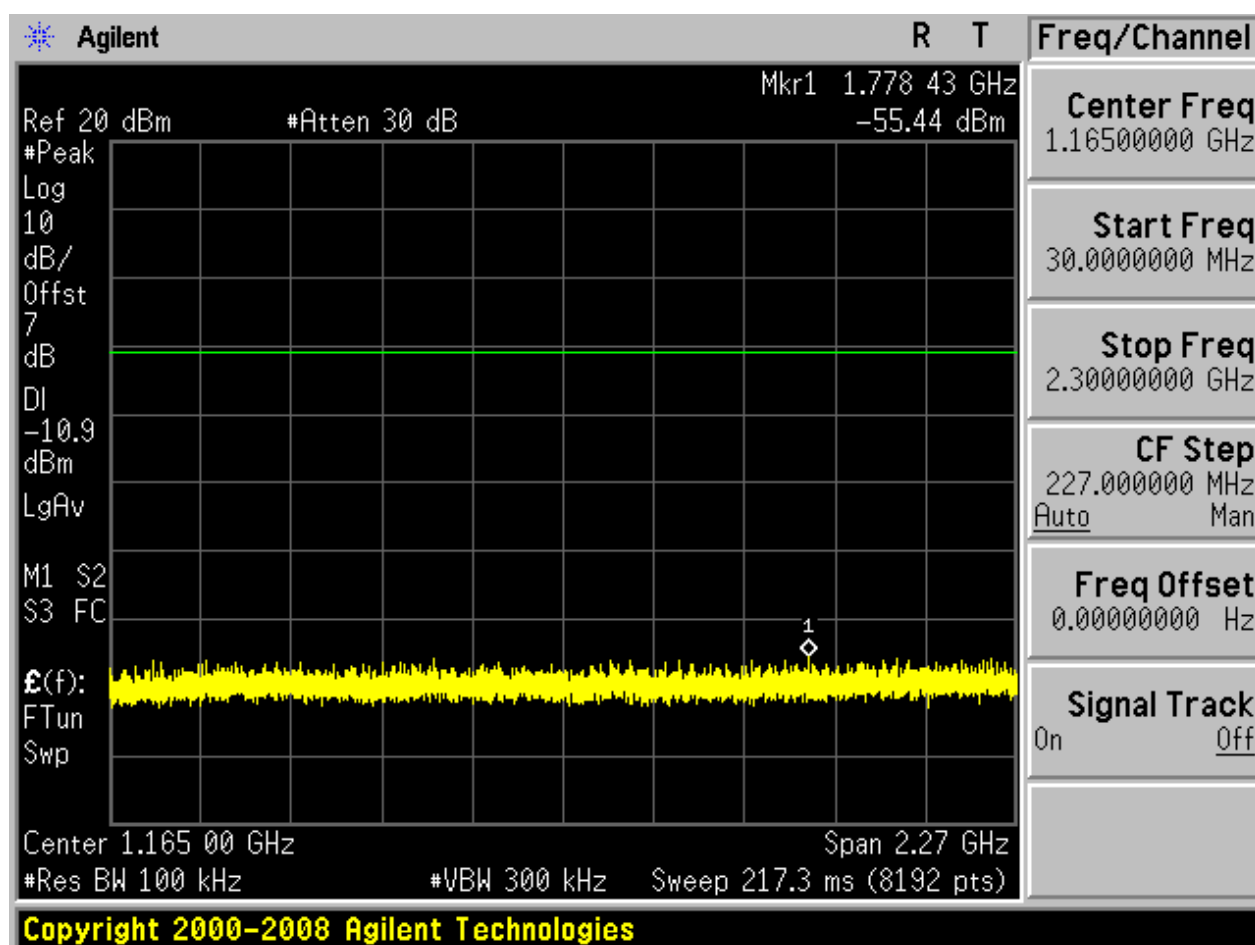
2.7.1 Pref

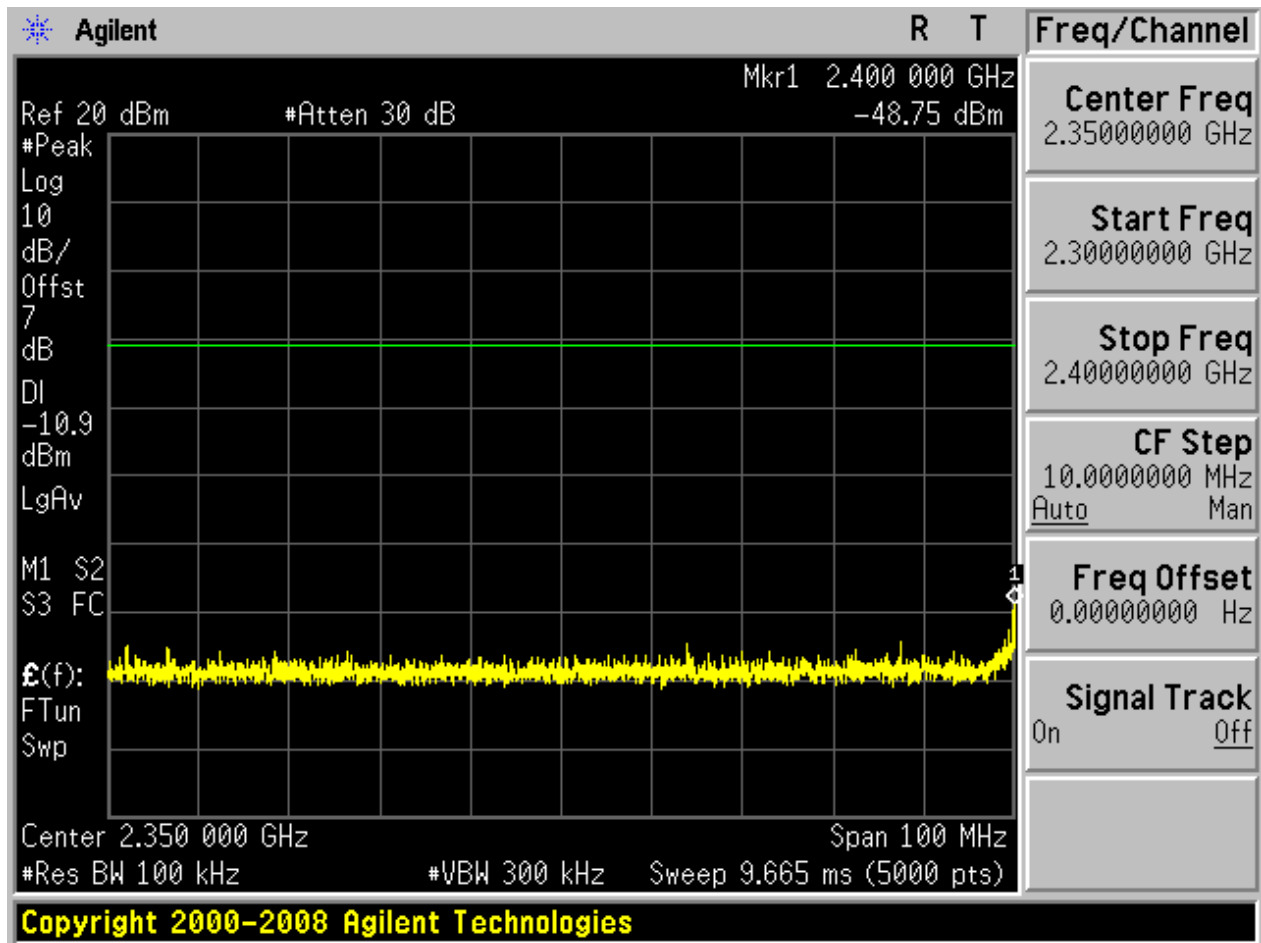


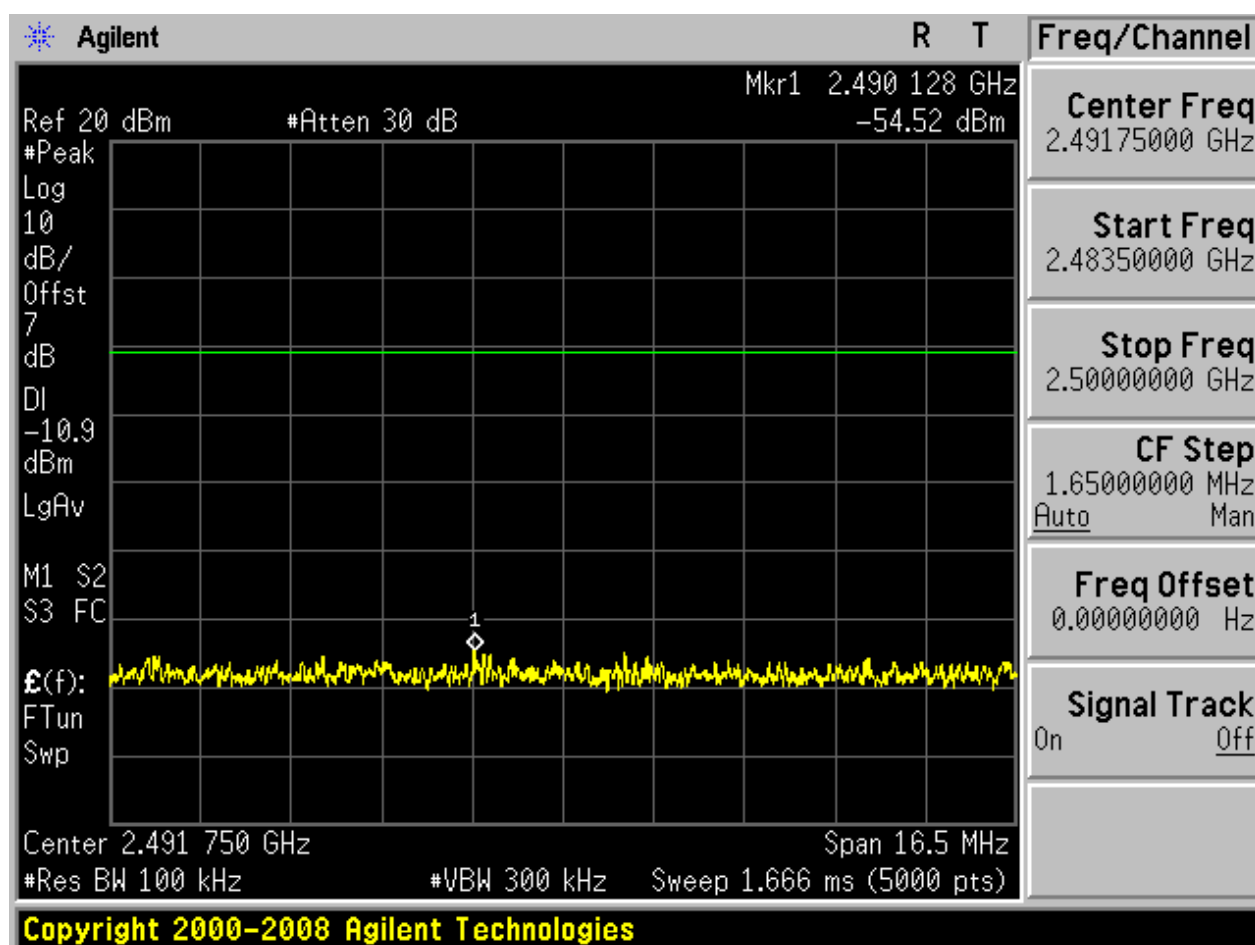
2.7.2 Puw

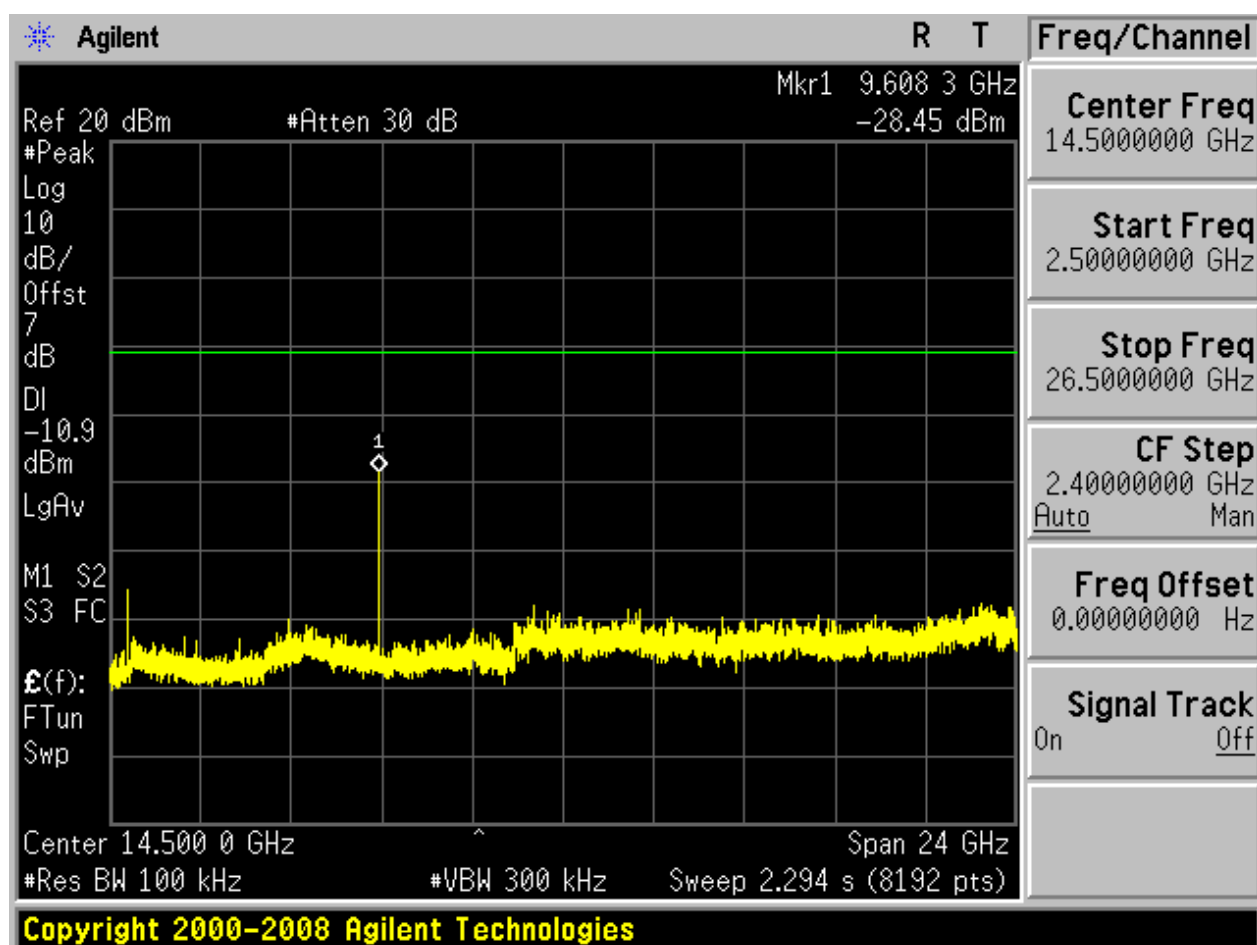






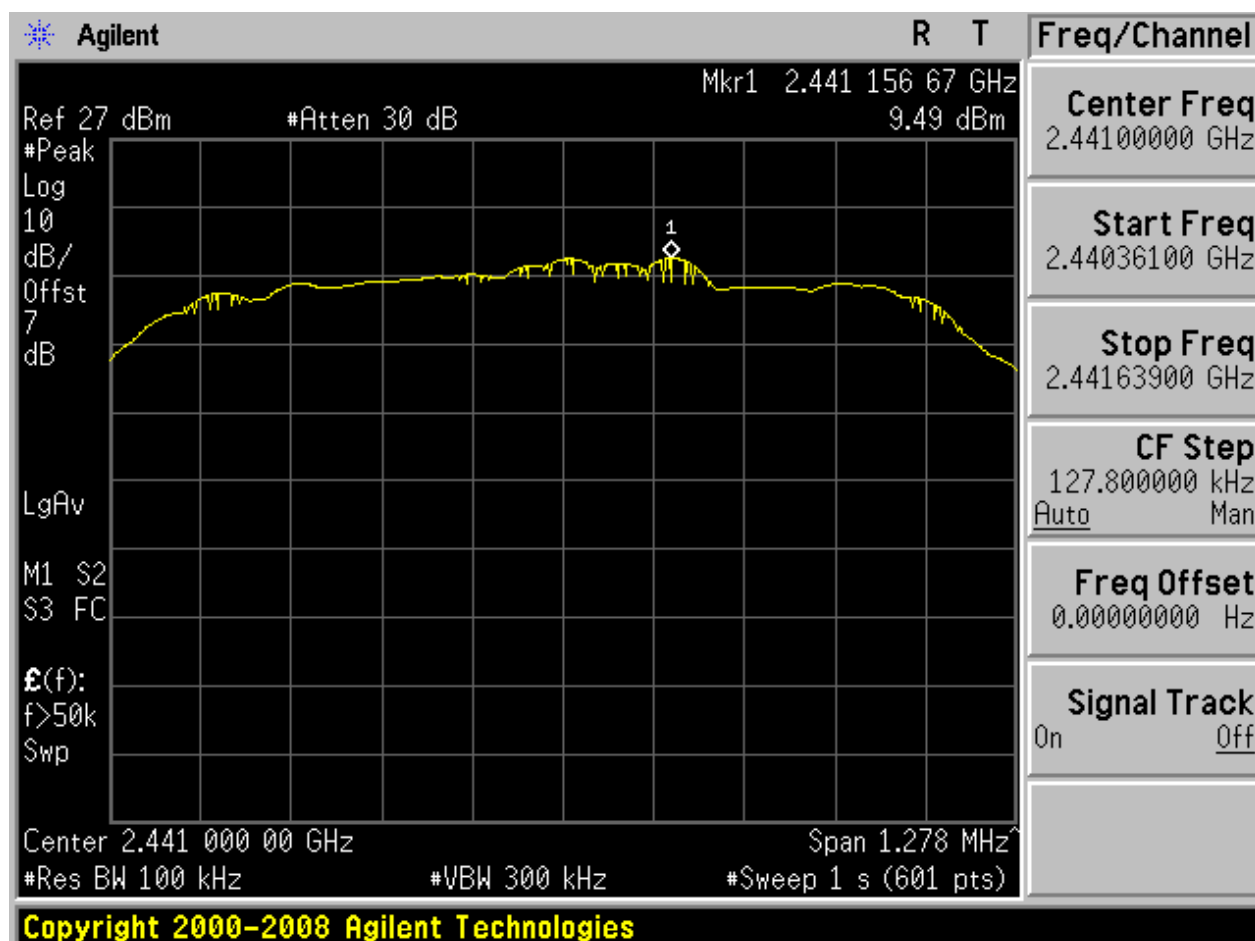




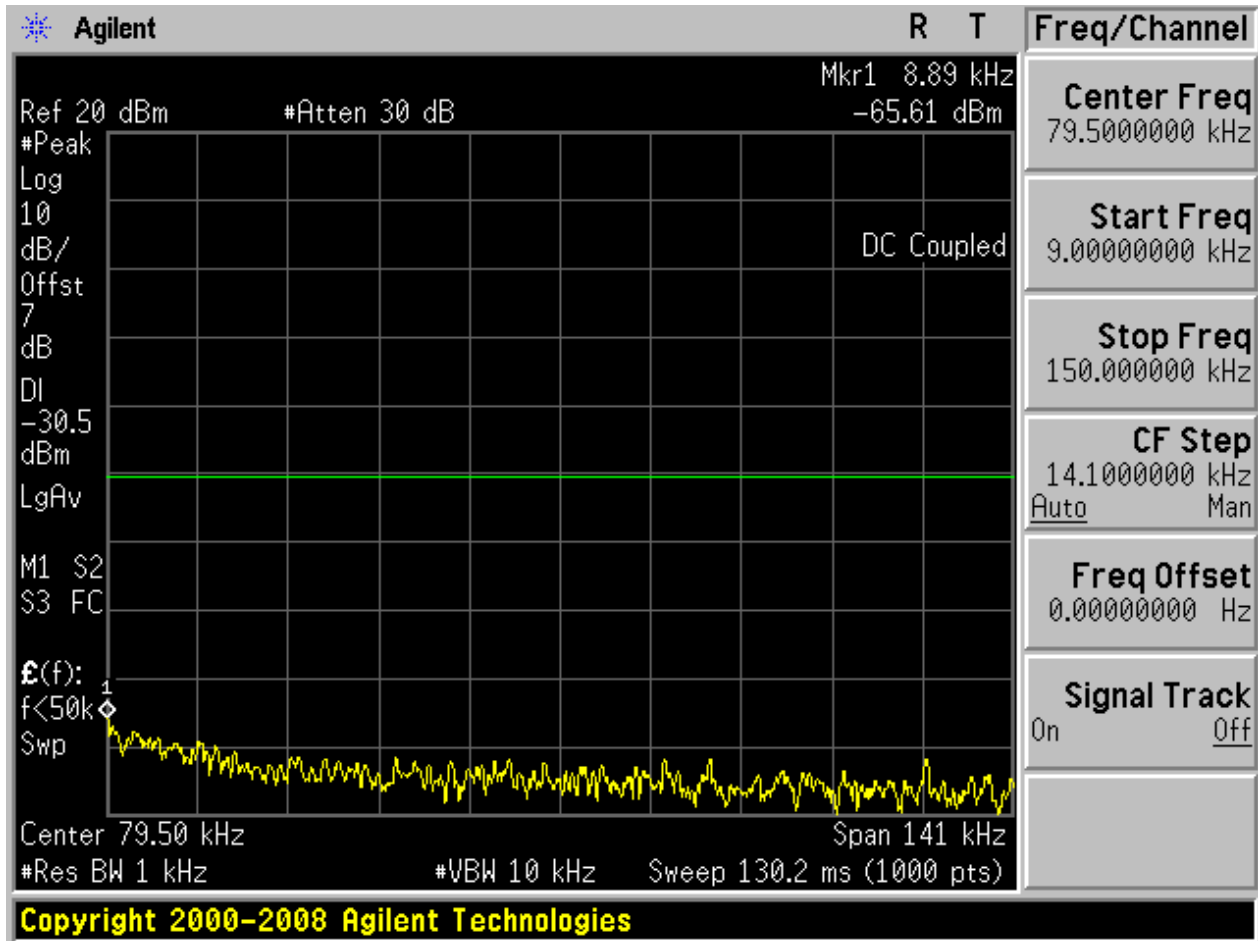


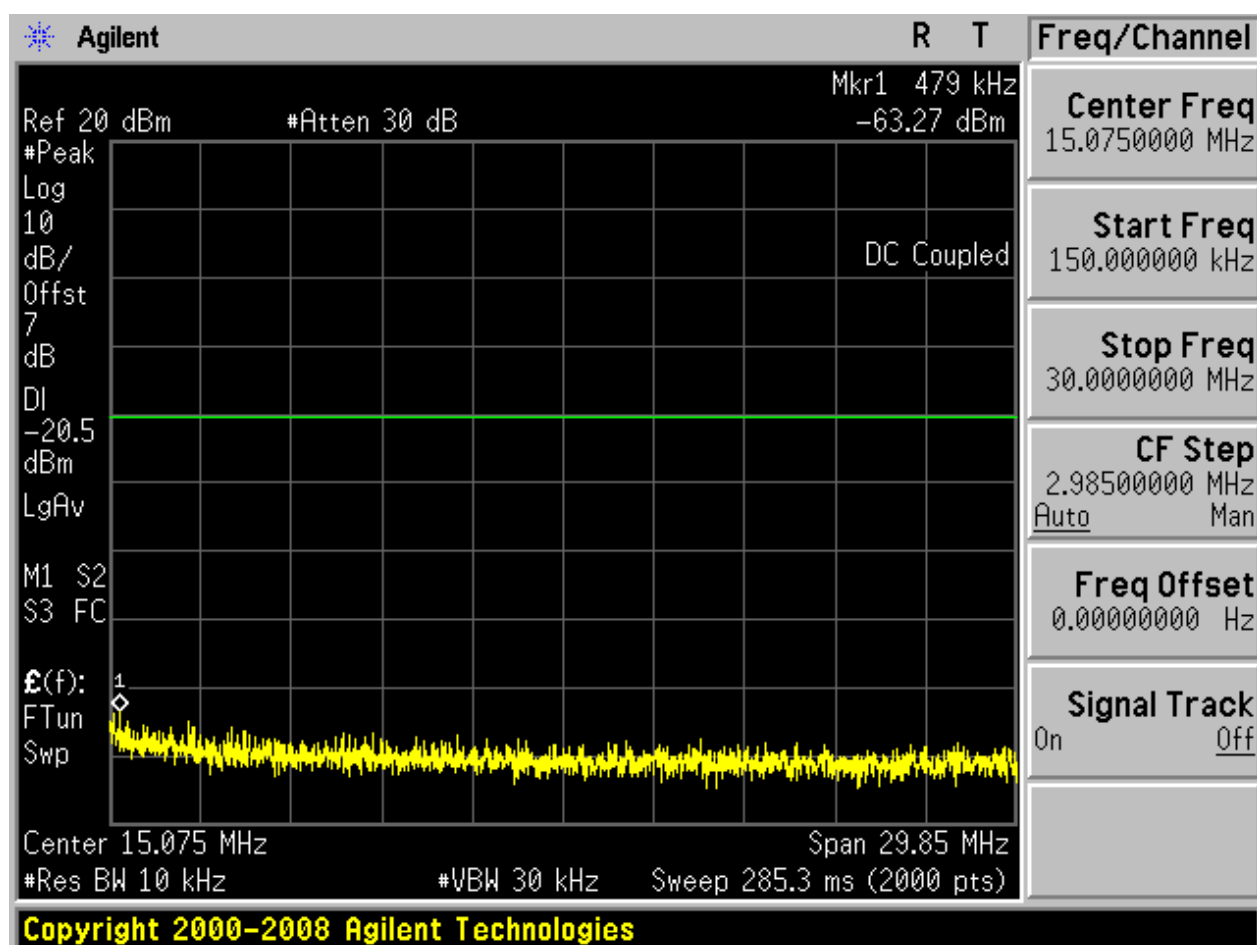
2.8 TM3_3DH5_Ch39

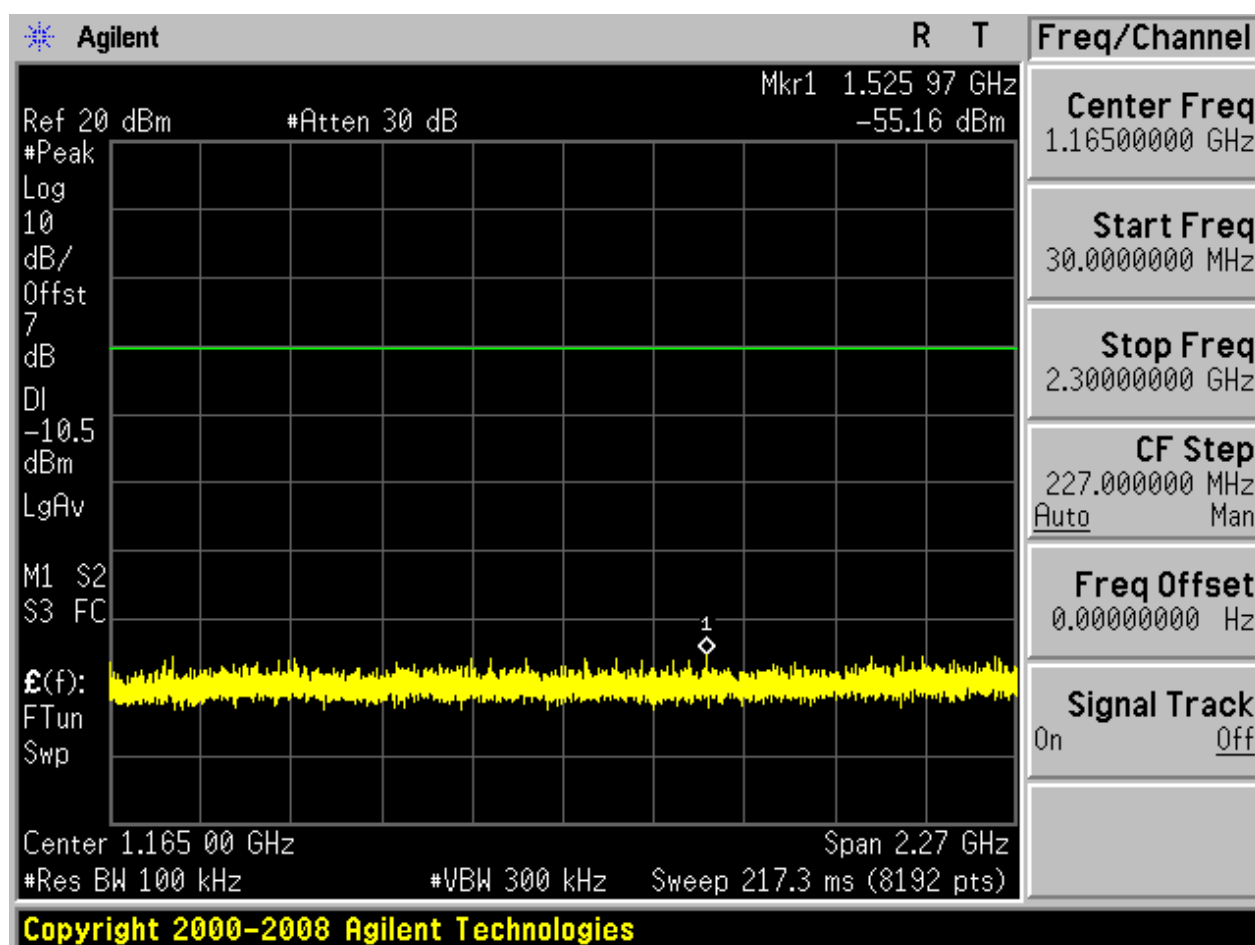
2.8.1 Pref

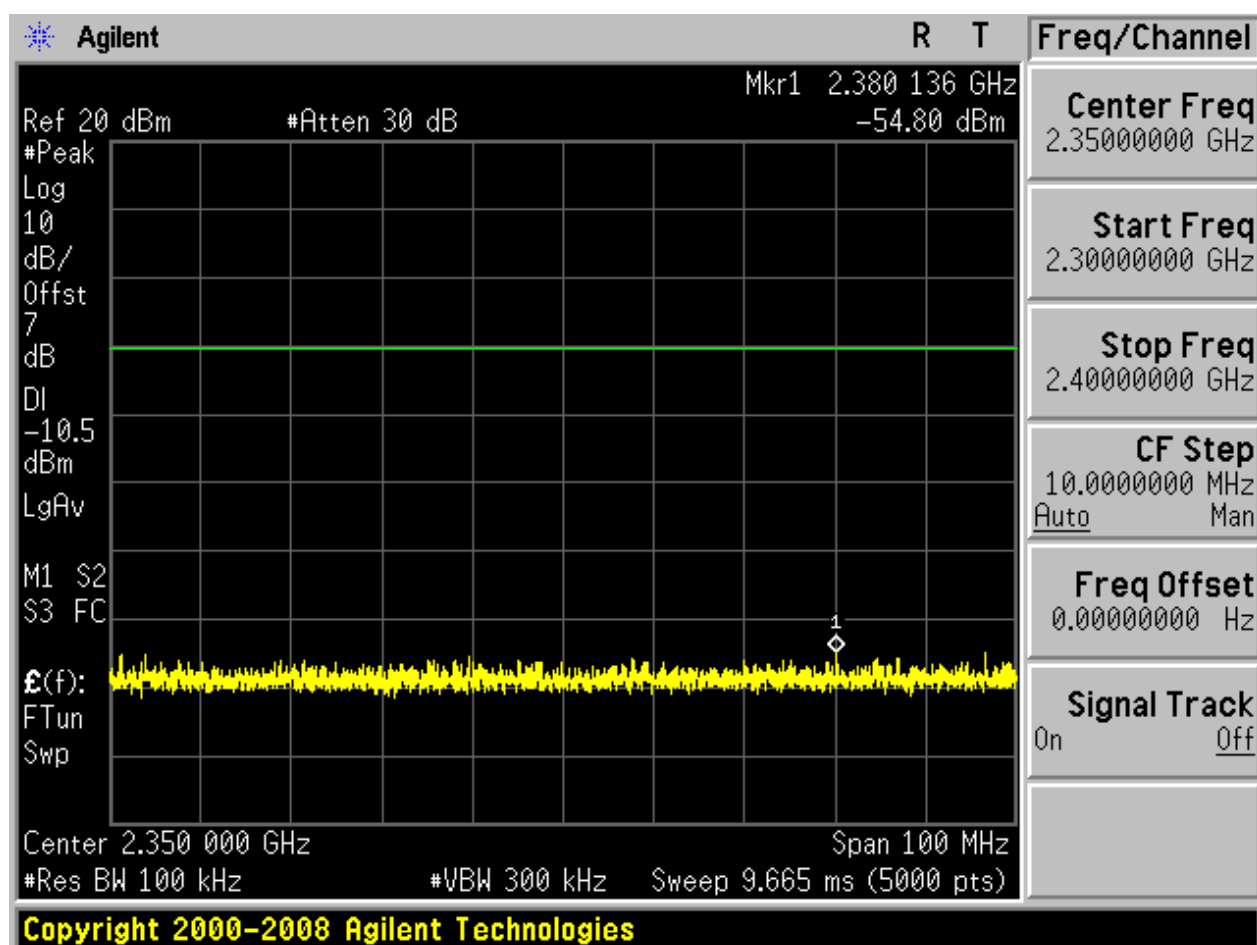


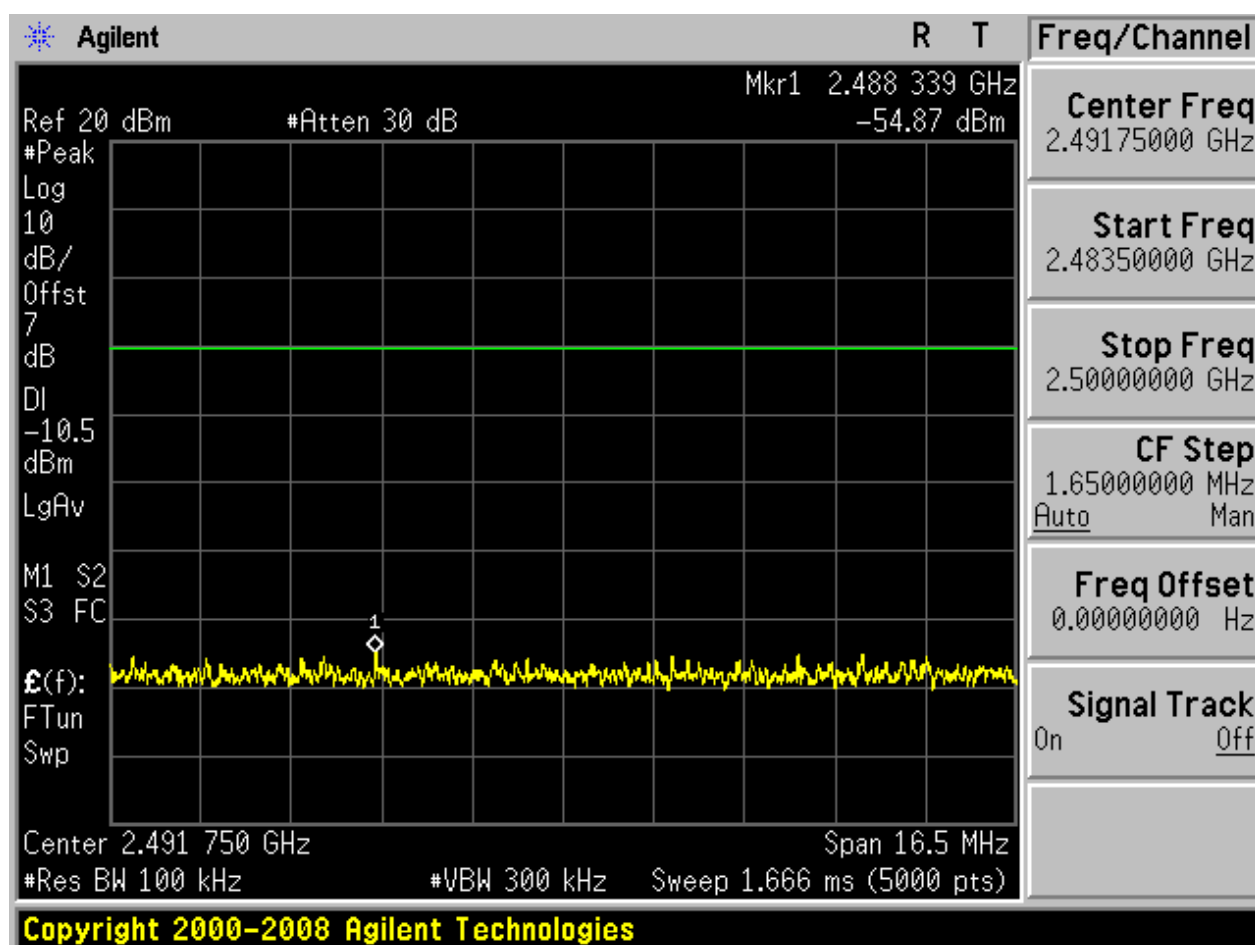
2.8.2 Puw

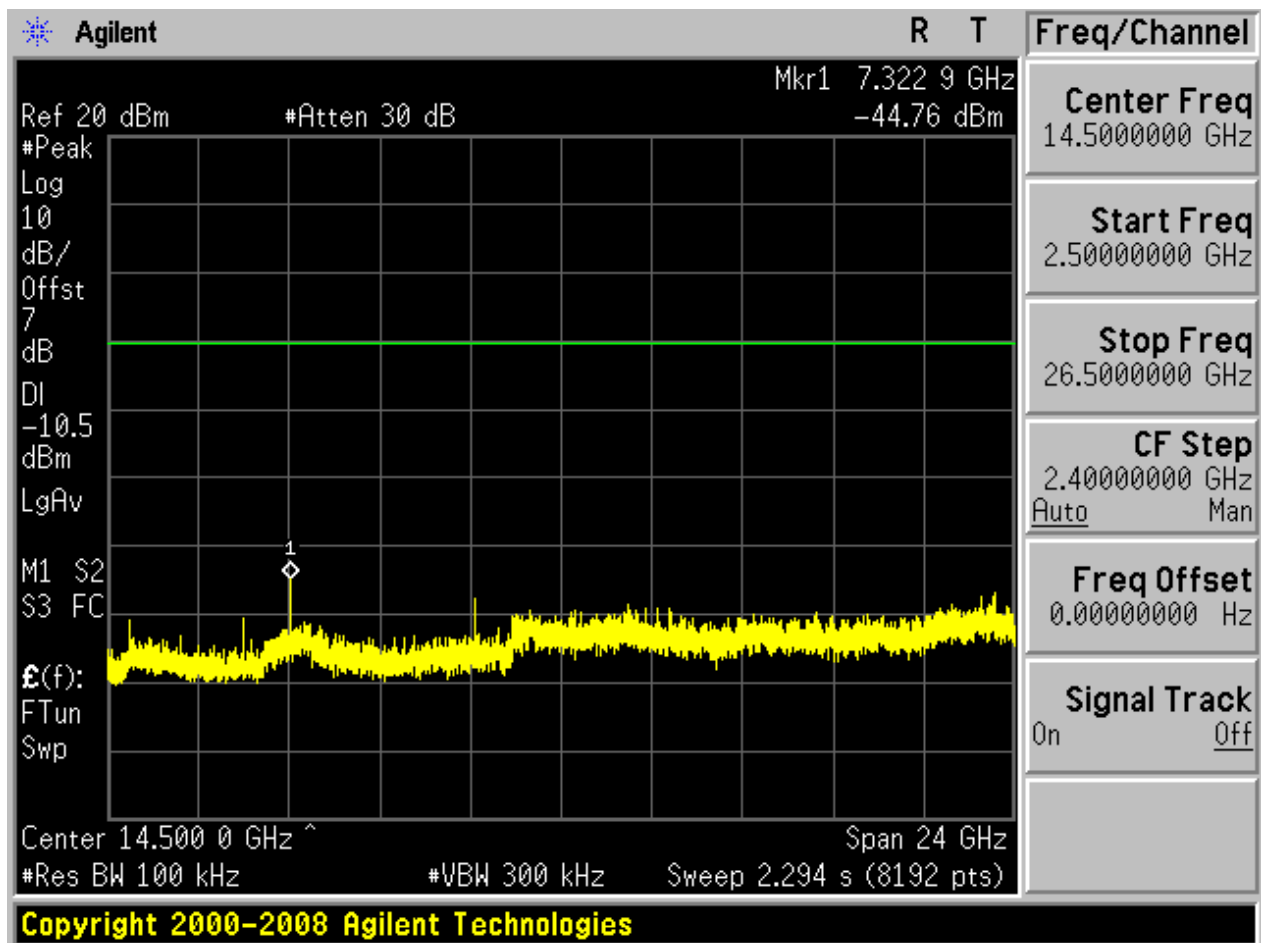






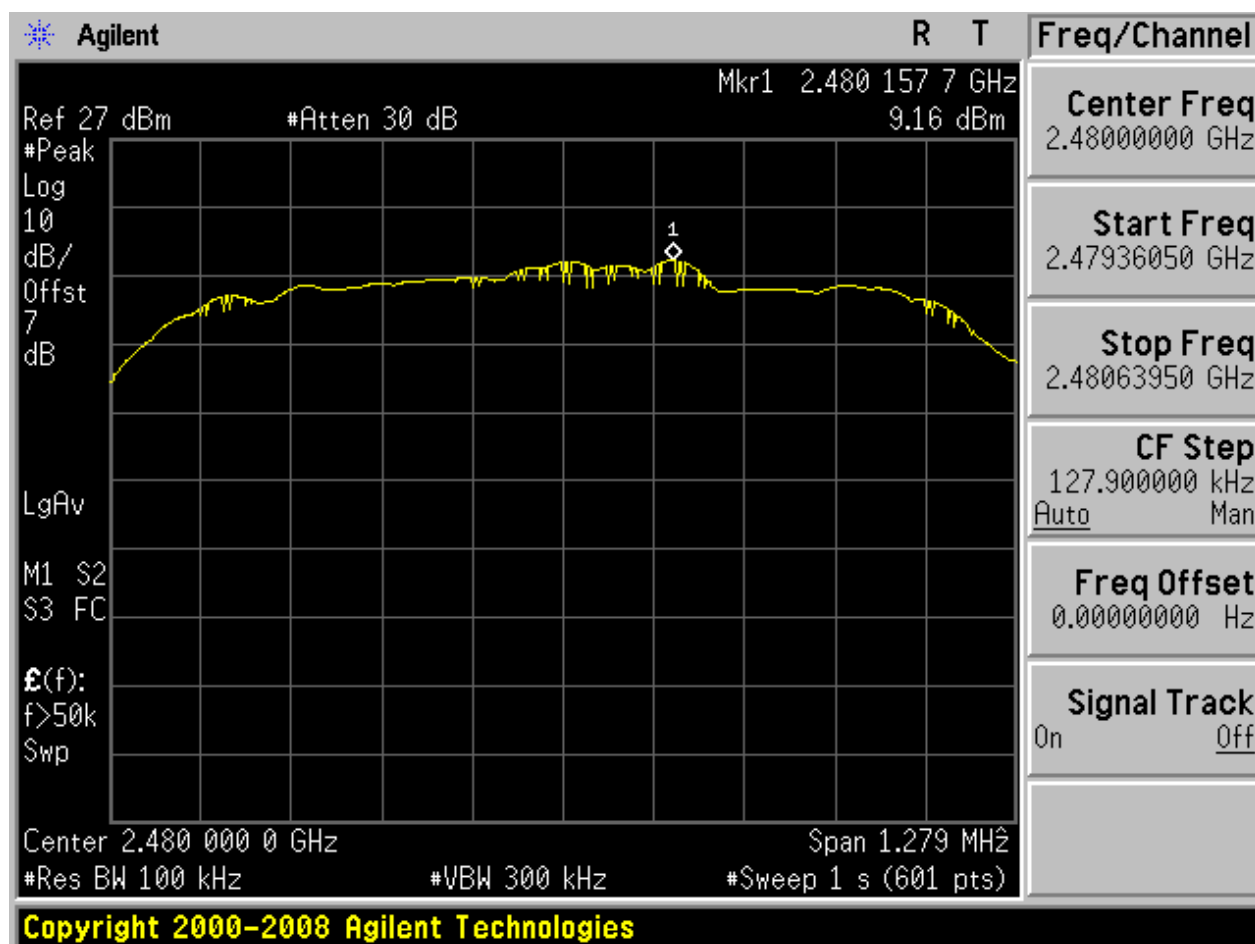




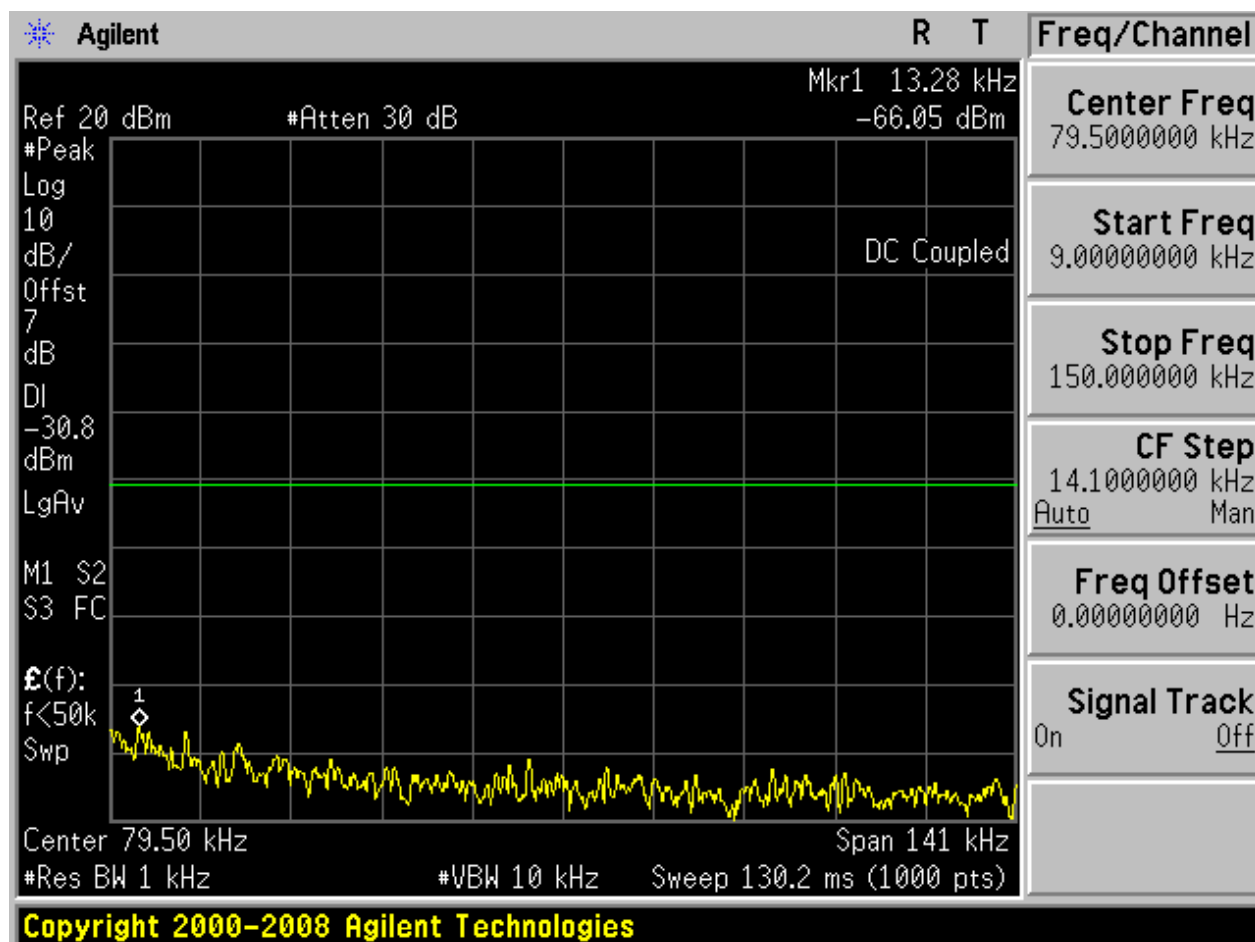


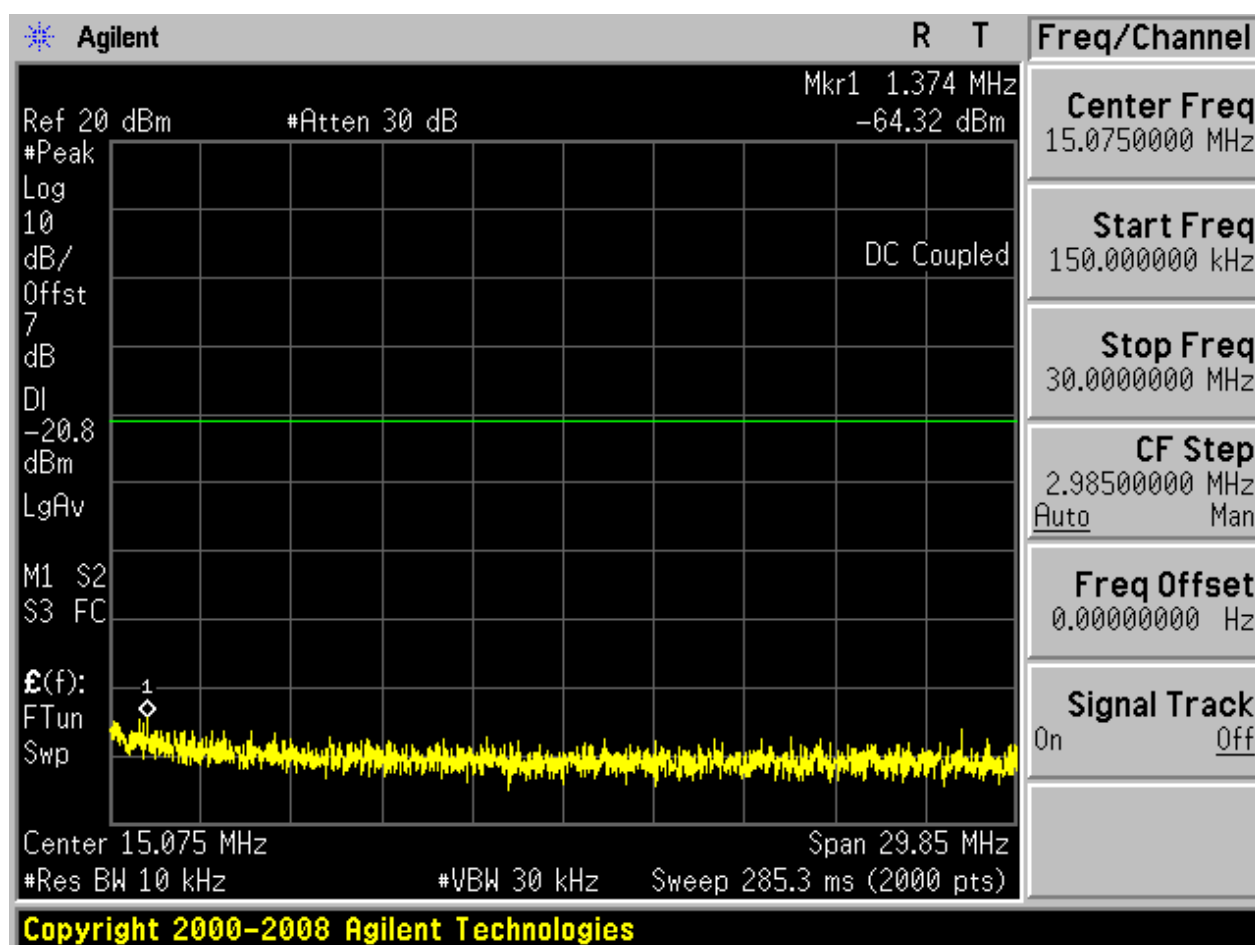
2.9 TM3_3DH5_Ch78

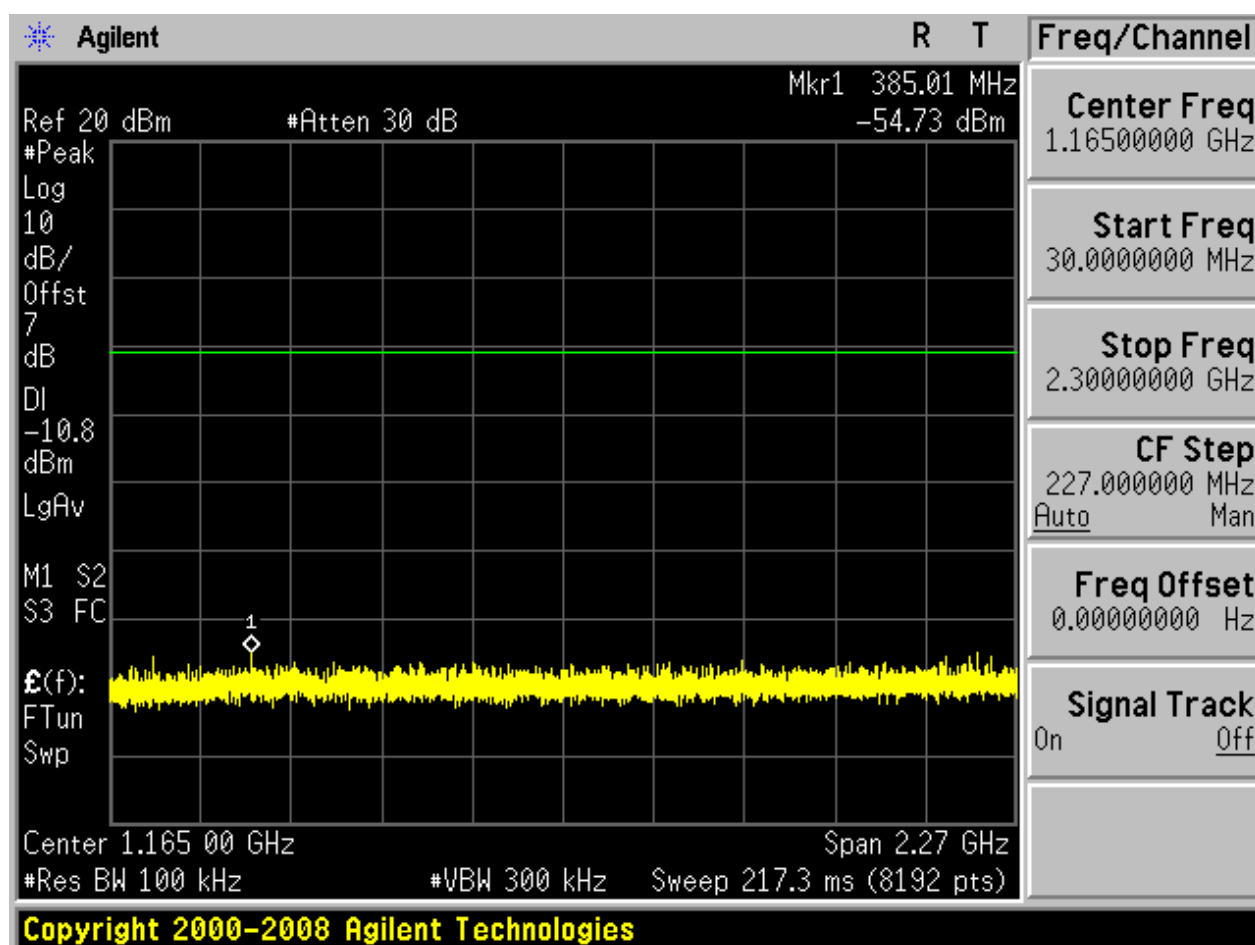
2.9.1 Pref

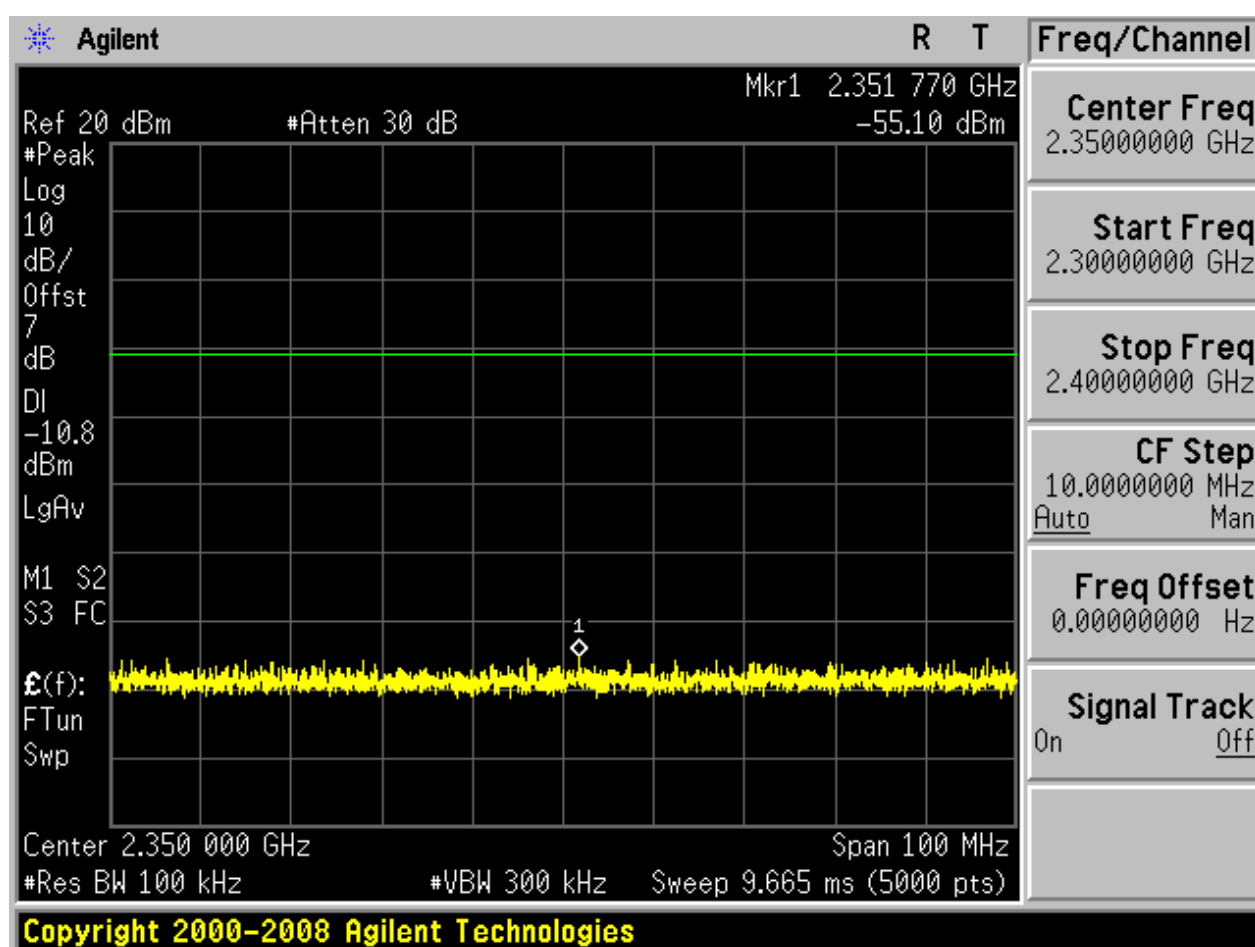


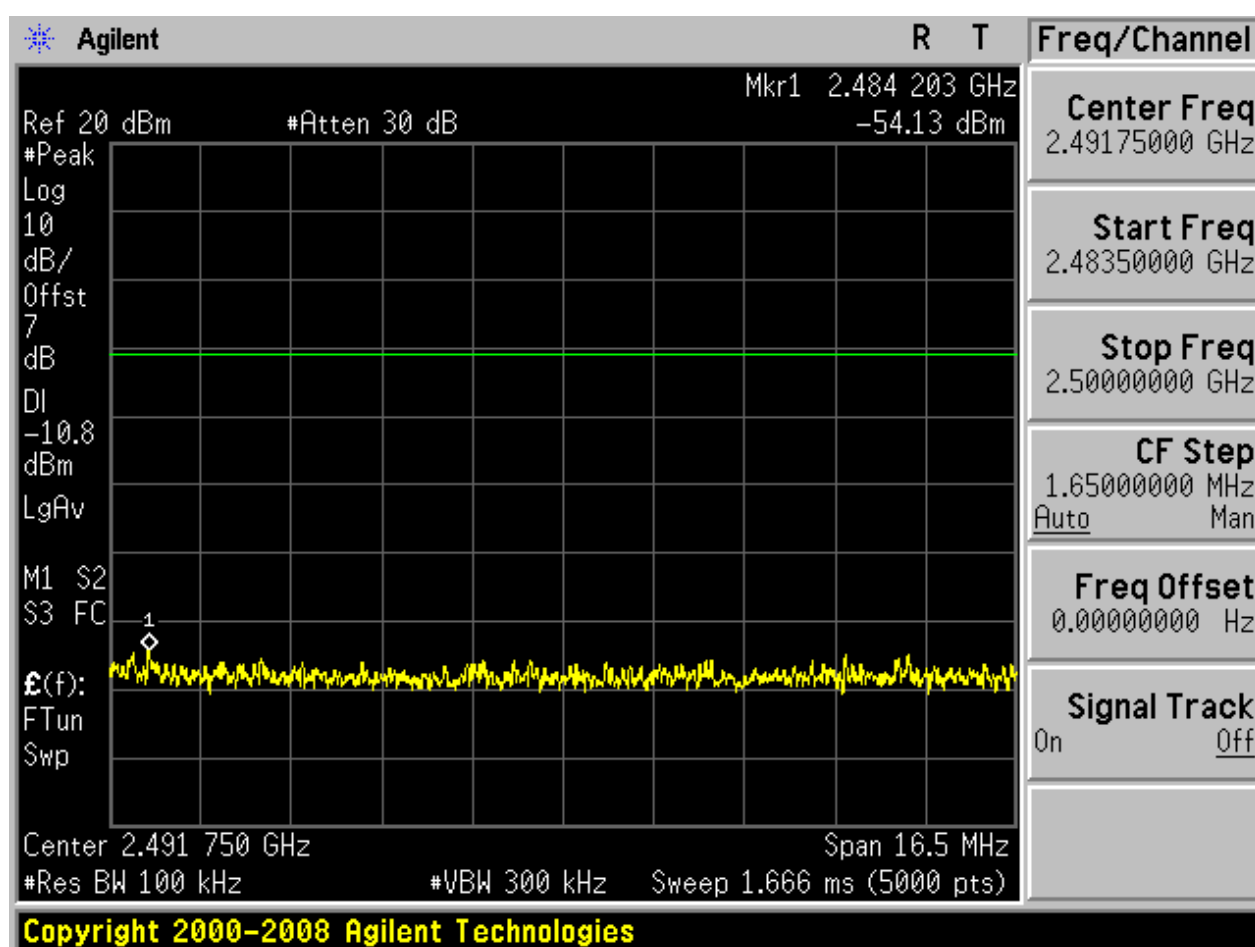
2.9.2 Puw

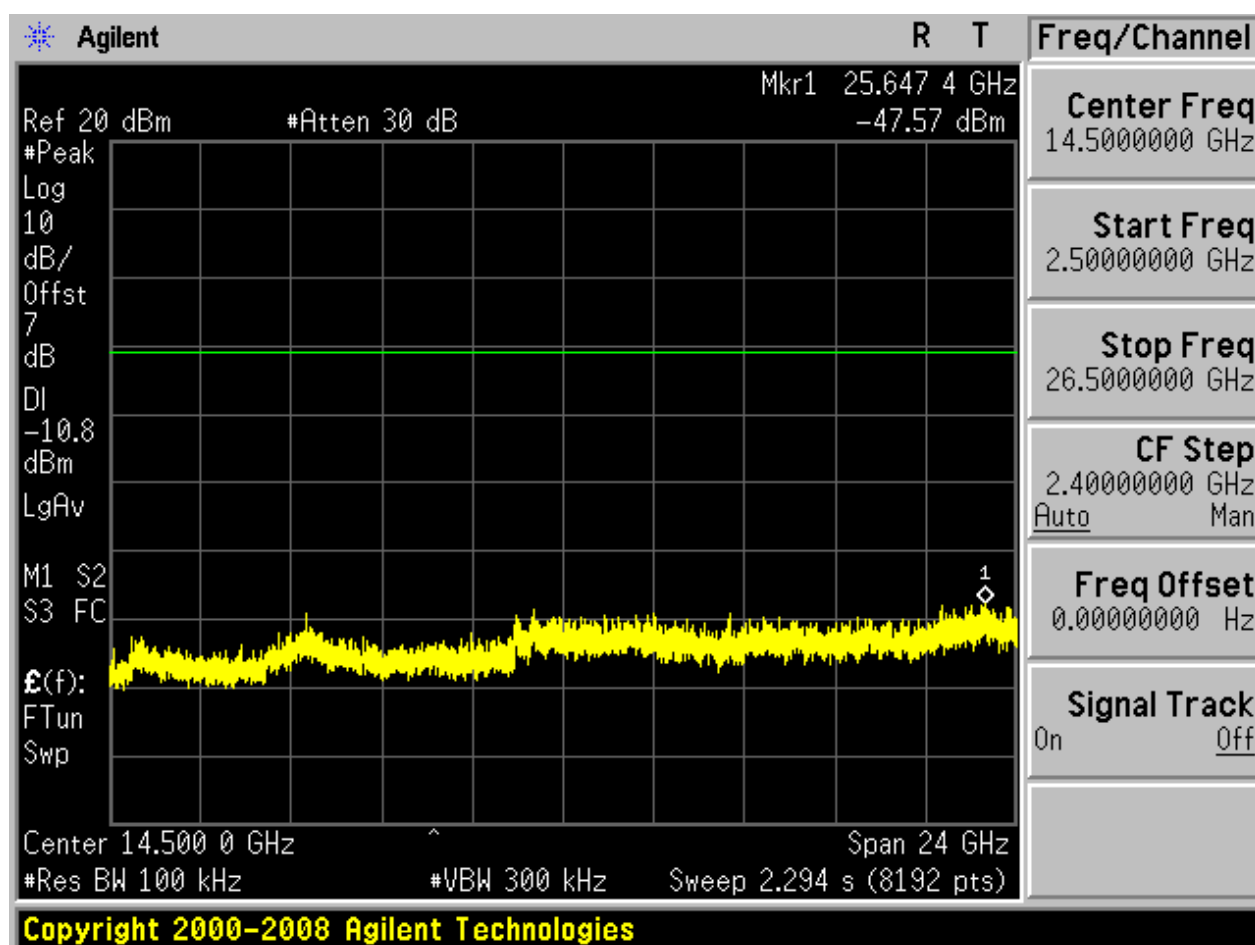












Appendix H: Radiated Emissions in the Restricted Bands

1 Result Table

The whole testing range is from “30 MHz to 26.5 GHz (10th harmonics)” is divided into 4 parts according to the test site settings, which are:

- (Part 1): Test range of “30 MHz to 1 GHz”,
- (Part 2): Test range of “18 GHz to 26.5 GHz”.
- (Part 3): Test range of “2.3 GHz to 2.5 GHz”, and
- (Part 4): Test range of “1 GHz to 18 GHz”.

In this Appendix, only the test results and plots under the worst case can be reported. In the result table, the “< Limit” denotes that “Not found obvious spikes or see marked spikes on plots and listed emissions records”.

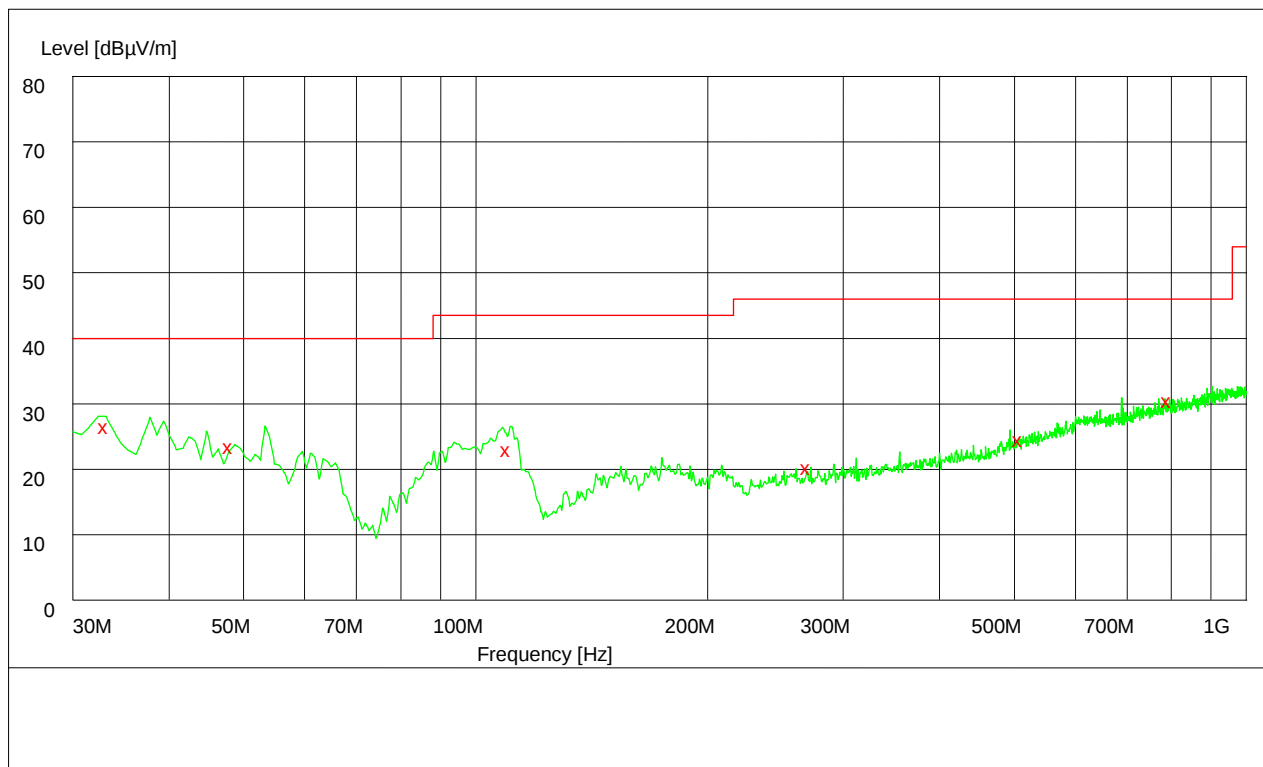
Test Range	EUT Conf.	Emissions	Verdict
30 MHz to 1 GHz	TM1_DH5_Ch0 (Worst Conf.)	< Limit	Pass
2.3 GHz to 2.5 GHz	TM1_DH5_Ch0 (Worst Conf.)	< Limit	Pass
	TM1_DH5_Ch78 (Worst Conf.)	< Limit	Pass
1 GHz to 18 GHz	TM1_DH5_Ch0 (Worse Conf.)	< Limit	Pass
18 GHz to 26.5 GHz	TM1_DH5_Ch0 (Worst Conf.)	< Limit	Pass

2 Result Plot

2.1 Test 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.

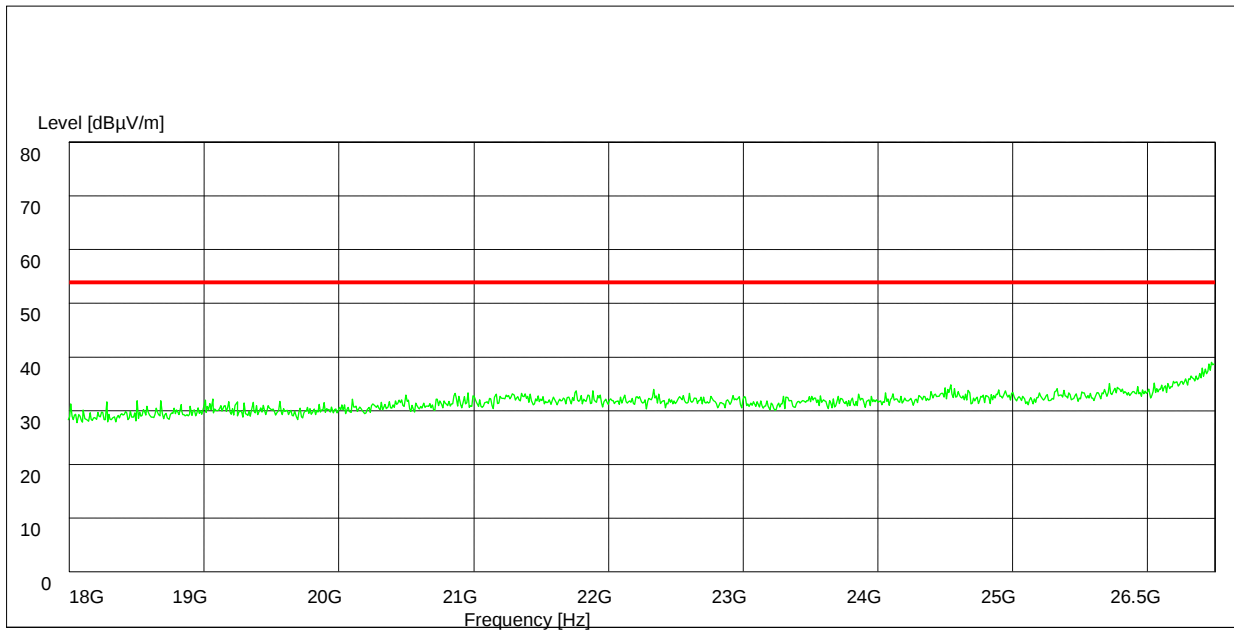
Note 2: The emissions in this range are mainly from the Platform Device (Notepad PC and its ancillary components).



Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Plarization
33.060000	27.90	11.8	40.0	12.1	100.0	219.00	VERTICAL
48.000000	24.90	13.0	40.0	15.1	100.0	52.00	VERTICAL
110.100000	24.40	12.3	43.5	19.1	100.0	60.00	VERTICAL
269.640000	21.70	14.6	46.0	24.3	100.0	336.00	HORIZONTAL
508.620000	25.90	20.5	46.0	20.1	100.0	0.00	VERTICAL
793.500000	31.90	24.9	46.0	14.1	100.0	24.00	VERTICAL

2.2 Test range of “18 GHz to 26.5 GHz”

Note: No peak found in pre- test.



2.3 Test range of “2.3 GHz to 2.5 GHz”

2.3.1 TM1_DH5_Ch0 (Worst Conf.)

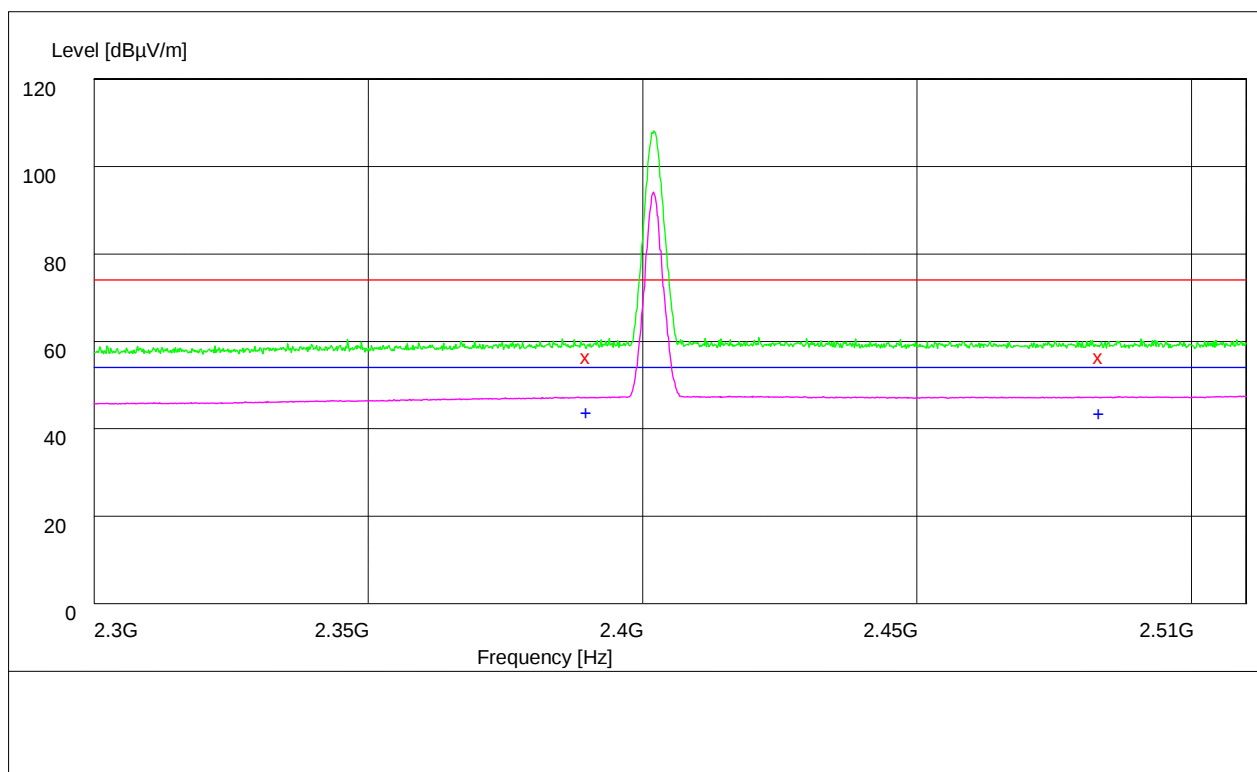
Note 1: The testing range of “2.3 GHz to 2.5 GHz” is for checking radiated emissions located in restricted bands near the EUT operating bands.

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 00



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

MEASUREMENT RESULT: PK Detector

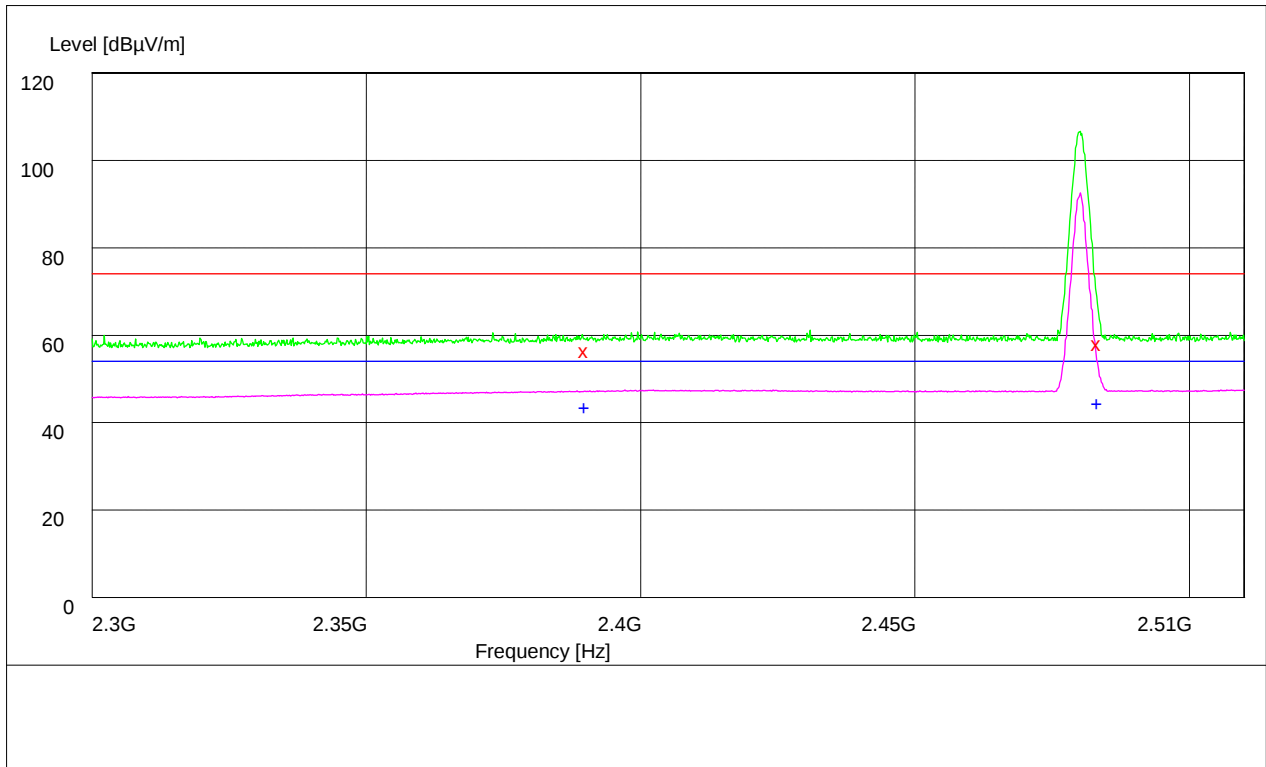
Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	58.50	34.7	74.0	15.5	100.0	274.00	VERTICAL
2483.500000	58.60	35.0	74.0	15.4	112.0	246.00	VERTICAL

MEASUREMENT RESULT: AVDetector

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Height cm	Azimuth deg	Polarization
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2390.000000	45.70	34.7	54.0	8.3	105.0	360.00	HORIZONTAL
2483.500000	45.60	35.0	54.0	8.4	181.0	1.00	VERTICAL

3.2 Channel 78



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

MEASUREMENT RESULT: PK Detector

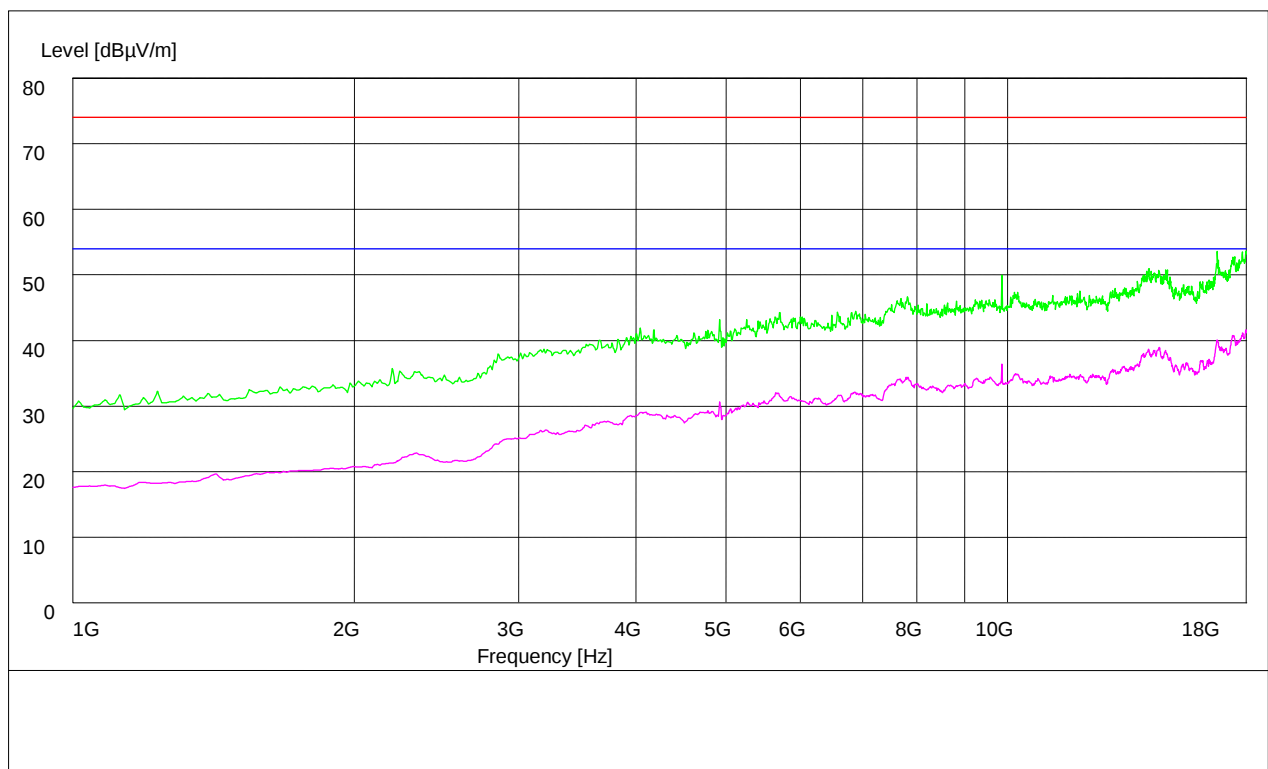
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	58.50	34.7	74.0	15.5	100.0	360.00	HORIZONTAL
2483.500000	60.20	35.0	74.0	13.8	130.0	115.00	VERTICAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	45.60	34.7	54.0	8.4	162.0	1.00	HORIZONTAL
2483.500000	46.60	35.0	54.0	7.4	100.0	360.00	HORIZONTAL

3.3 Test range of “18 GHz to 26.5 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 J: AC Power Line Conducted Emissions



1 Result Table

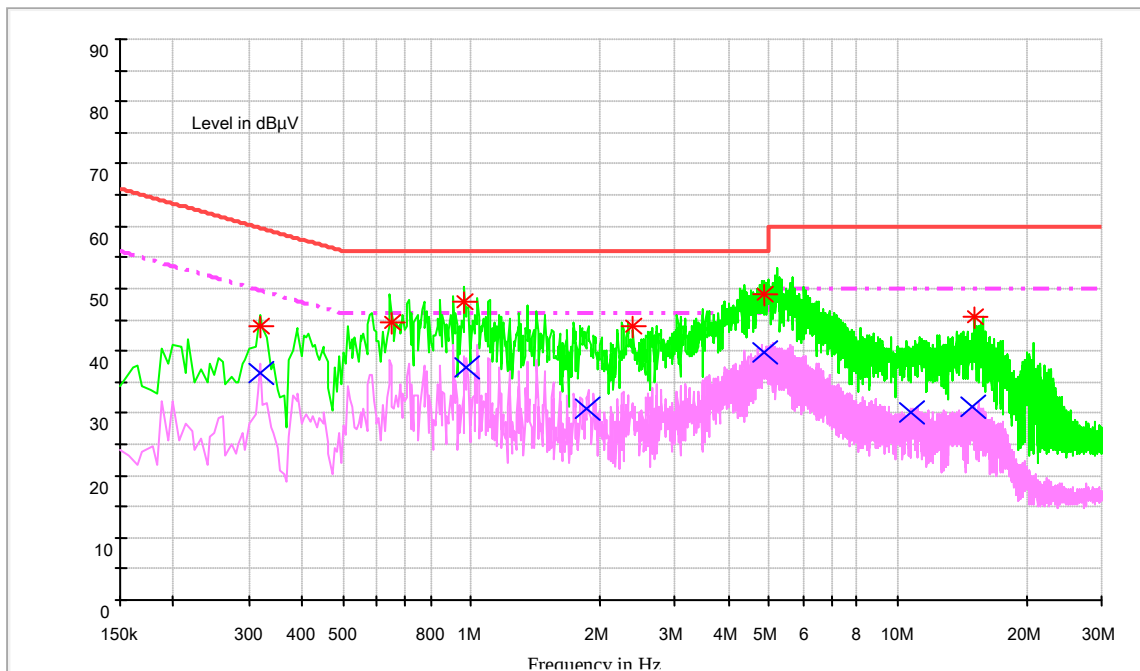
In this Appendix, only the test results and plots under the worst case can be reported.

EUT Conf.	Maximum Emissions	Verdict
TM1_DH5_Ch39	Not found obvious spikes or see marked spikes on plots and listed emissions records.	Pass

2 Result Plot

2.1 TM1_DH5_Ch40

Channel 40



MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.320086	43.8	9.7	59.7	15.9	N	FLO
0.649095	44.6	9.7	56	11.4	N	FLO
0.963614	47.8	9.7	56	8.2	N	FLO
2.392872	43.8	9.7	56	12.2	L1	FLO
4.861248	49.1	9.8	56	6.9	N	FLO
15.16916	45.5	10.1	60	14.5	N	FLO

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.321638	36.4	9.7	49.6	13.2	N	FLO
0.968287	37.3	9.7	46	8.7	N	FLO
1.867174	30.7	9.7	46	15.3	N	FLO
4.851394	39.7	9.8	46	6.3	N	FLO
10.76441	30	9.9	50	20	N	FLO



14.9487	31.1	10.1	50	18.9	N	FLO
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END