



Appendix A: 20dB Emission Bandwidth (EBW)



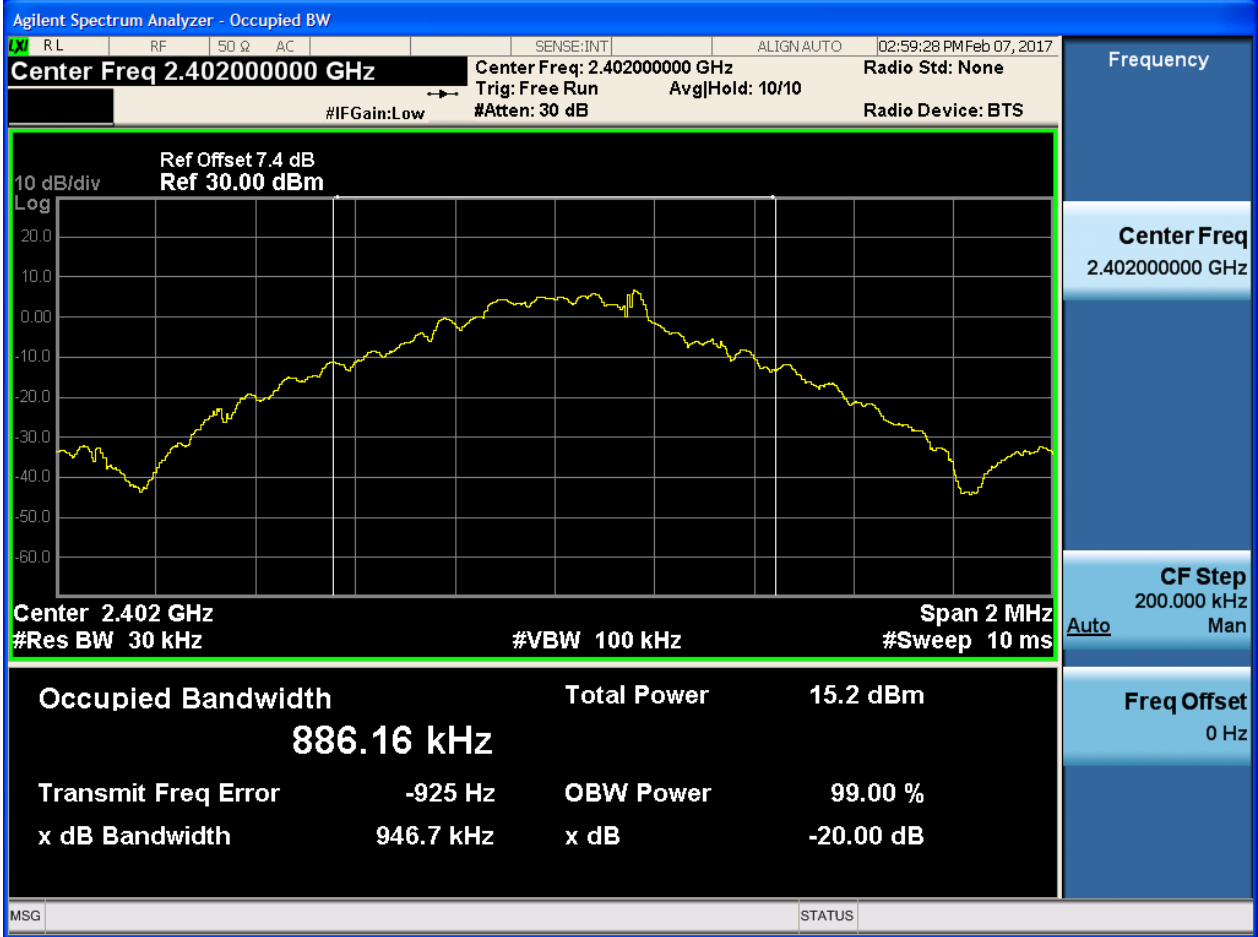
1 Result Table

EUT Conf.	EBW [MHz]	Verdict
TM1_DH5_Ch0	0.95	Pass
TM1_DH5_Ch39	0.95	Pass
TM1_DH5_Ch78	0.95	Pass
TM2_2DH5_Ch0	1.28	Pass
TM2_2DH5_Ch39	1.28	Pass
TM2_2DH5_Ch78	1.28	Pass
TM3_3DH5_Ch0	1.28	Pass
TM3_3DH5_Ch39	1.28	Pass
TM3_3DH5_Ch78	1.28	Pass



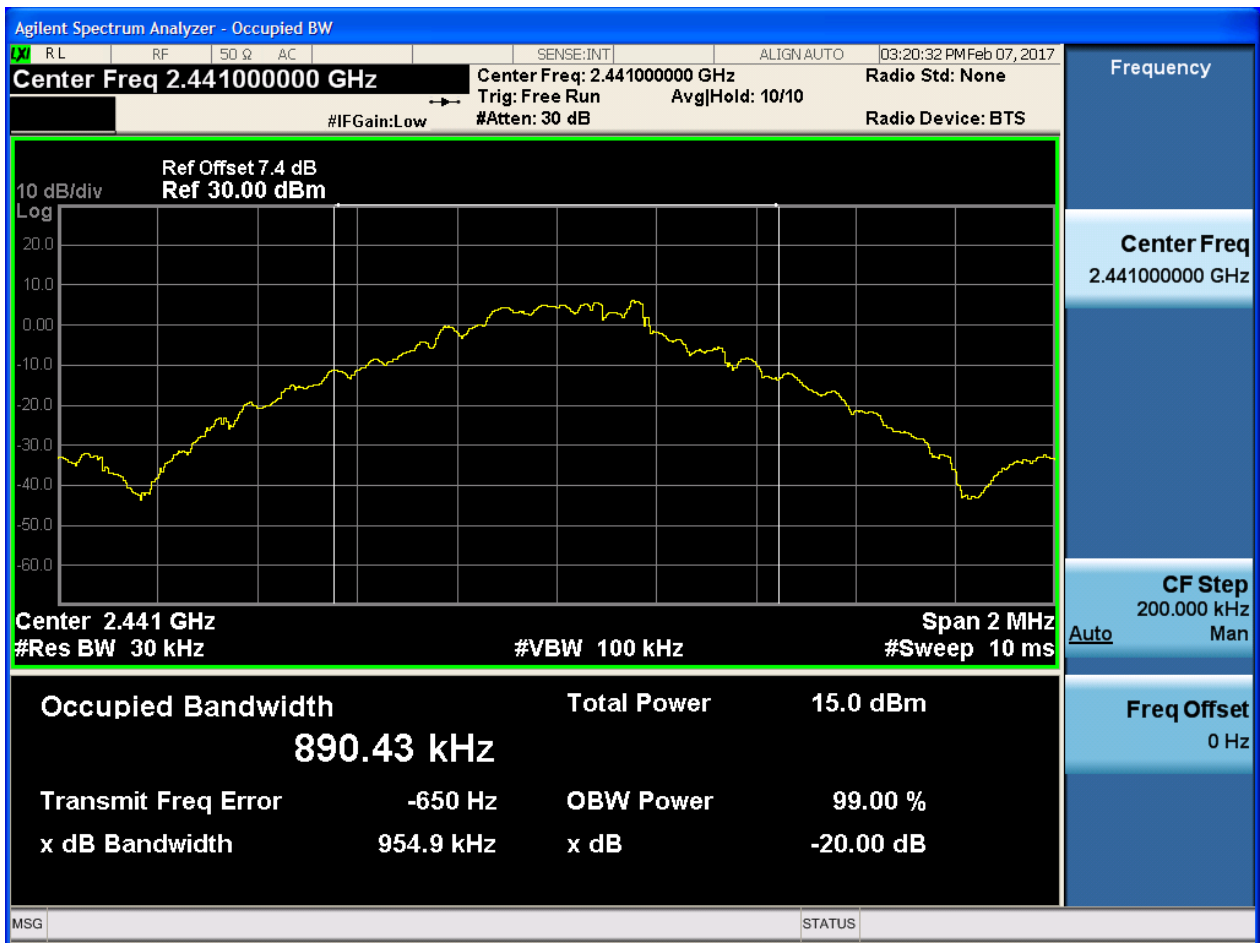
2 Test Plot

2.1 TM1_DH5_Ch0



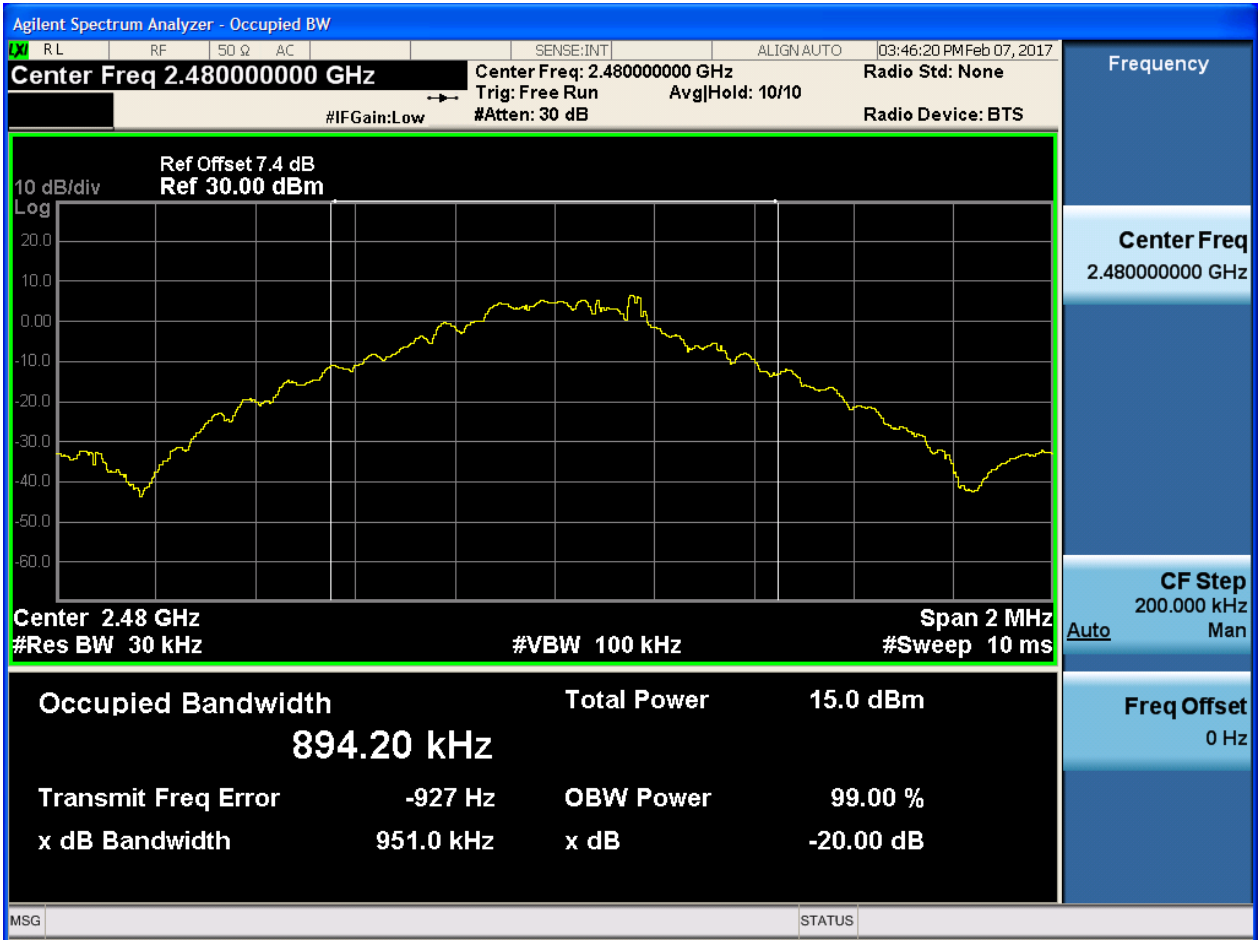


2.2 TM1_DH5_Ch39



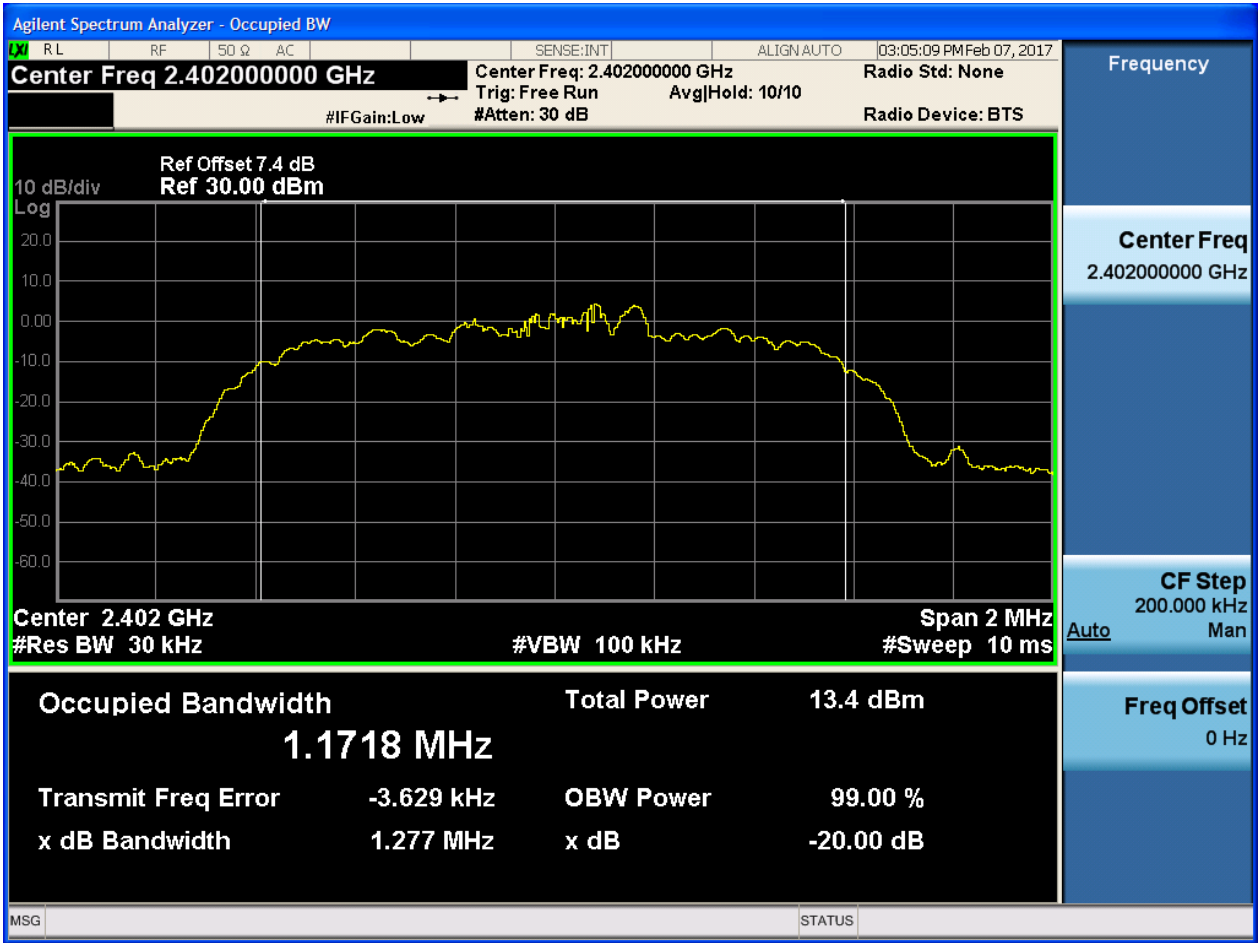


2.3 TM1_DH5_Ch78



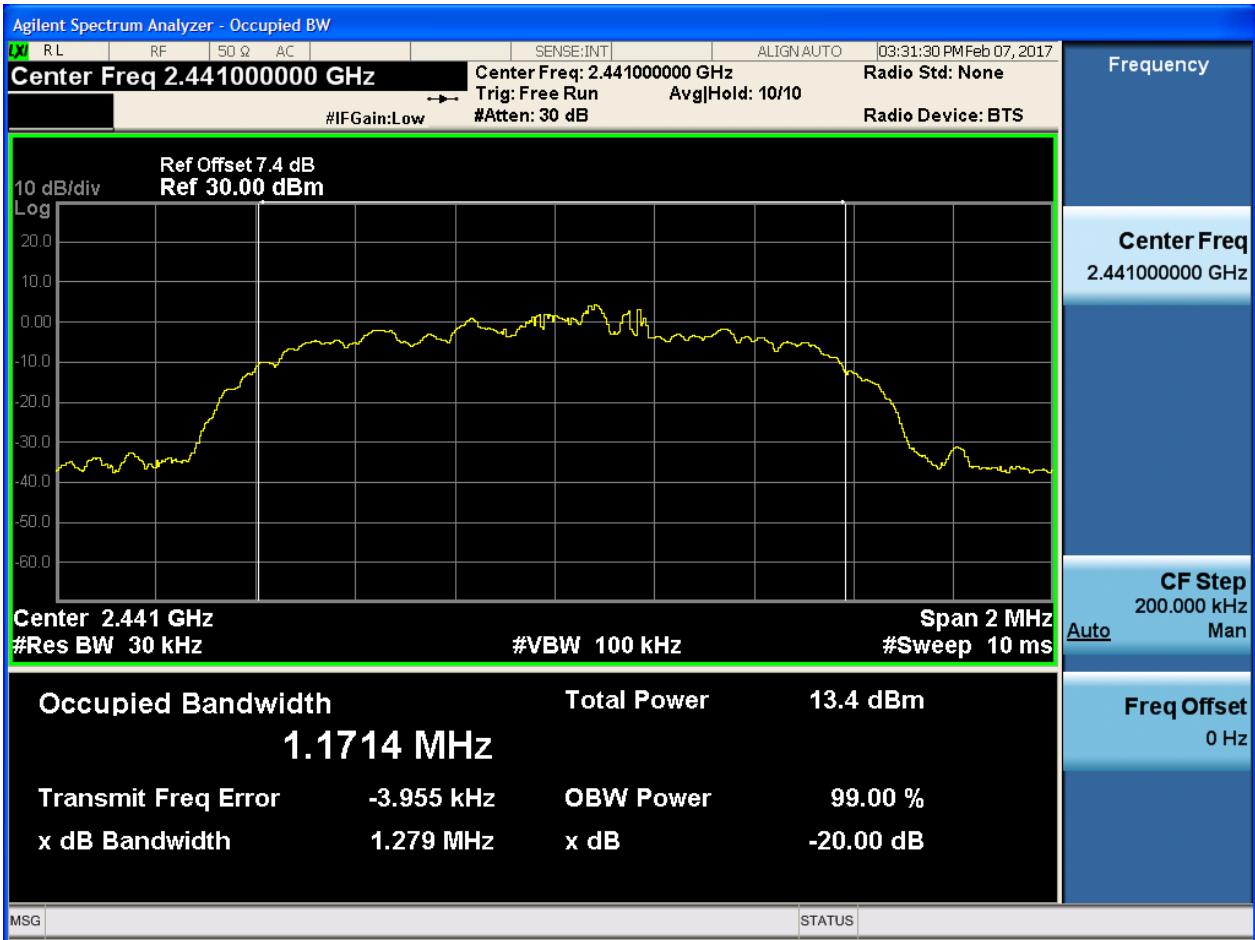


2.4 TM2_2DH5_Ch0



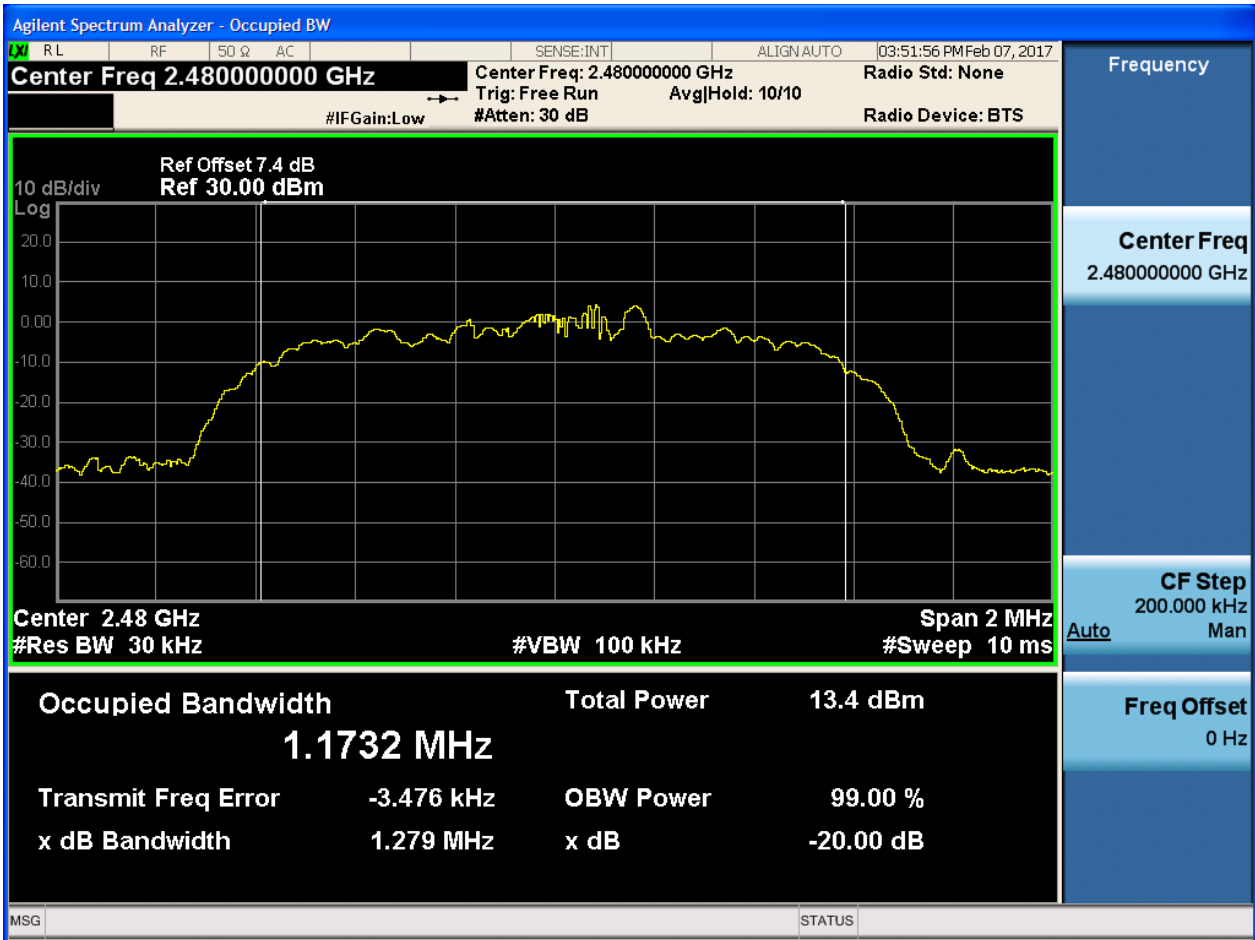


2.5 TM2_2DH5_Ch39



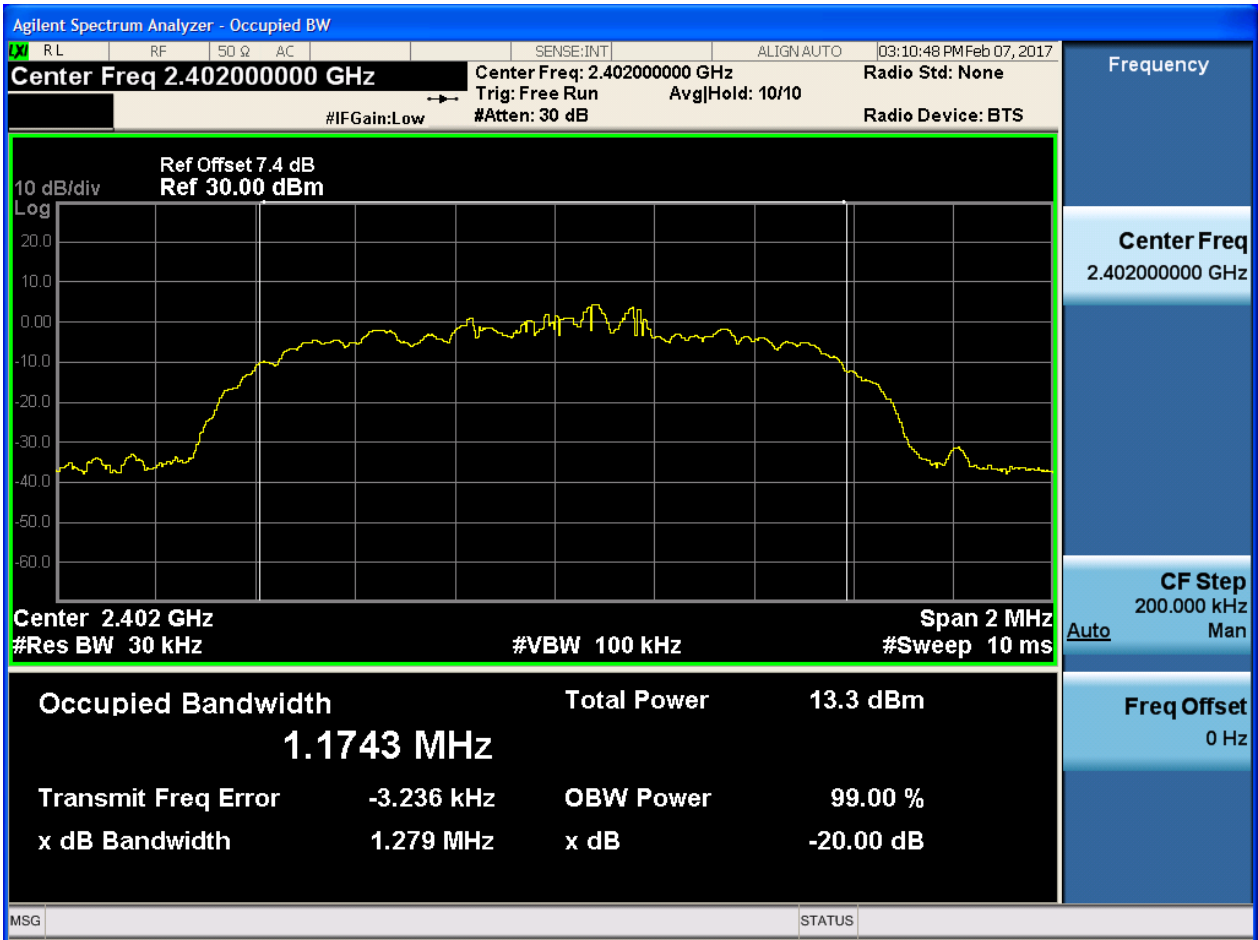


2.6 TM2_2DH5_Ch78



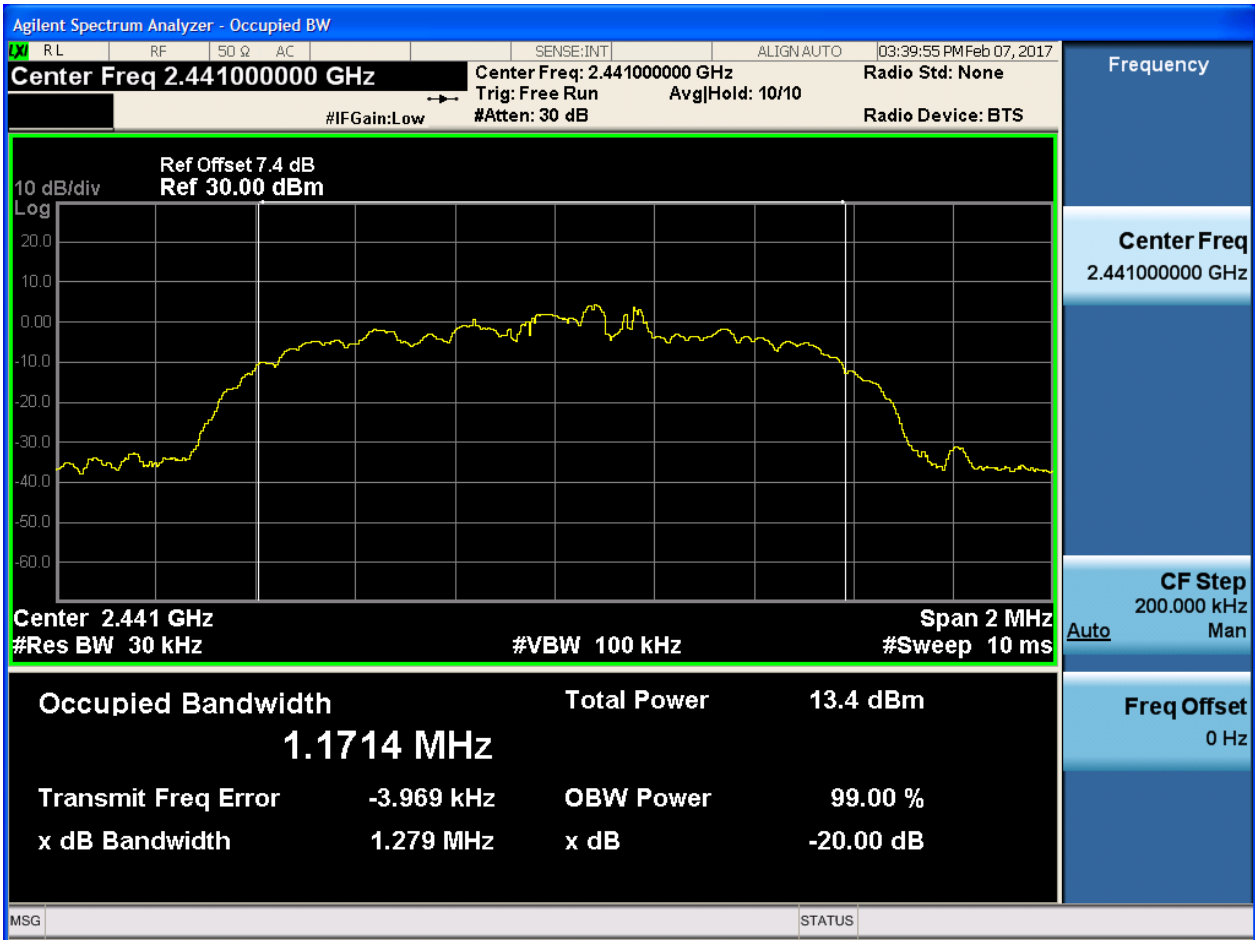


2.7 TM3_3DH5_Ch0



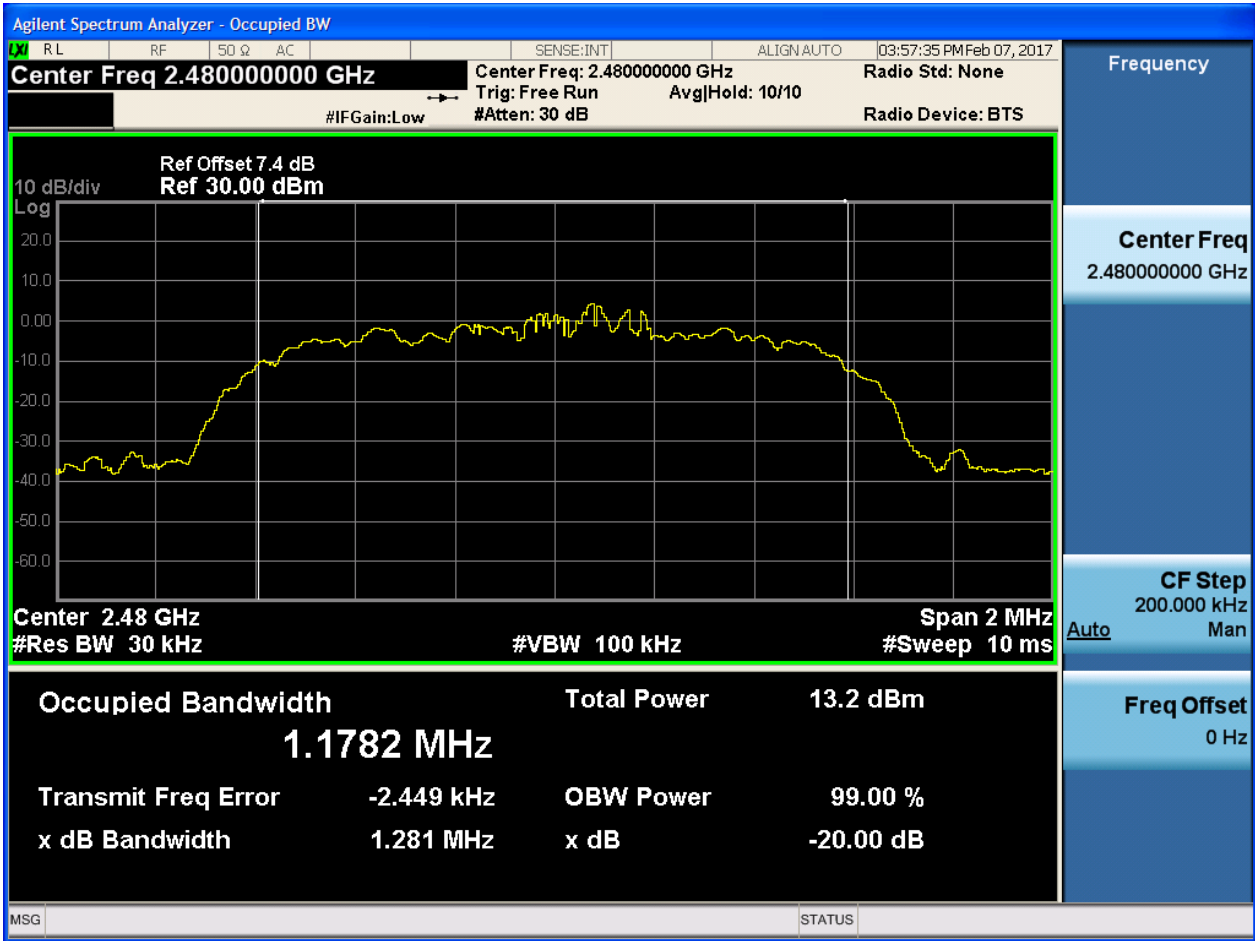


2.8 TM3_3DH5_Ch39





2.9 TM3_3DH5_Ch78





Appendix B: Carrier Frequency Separation



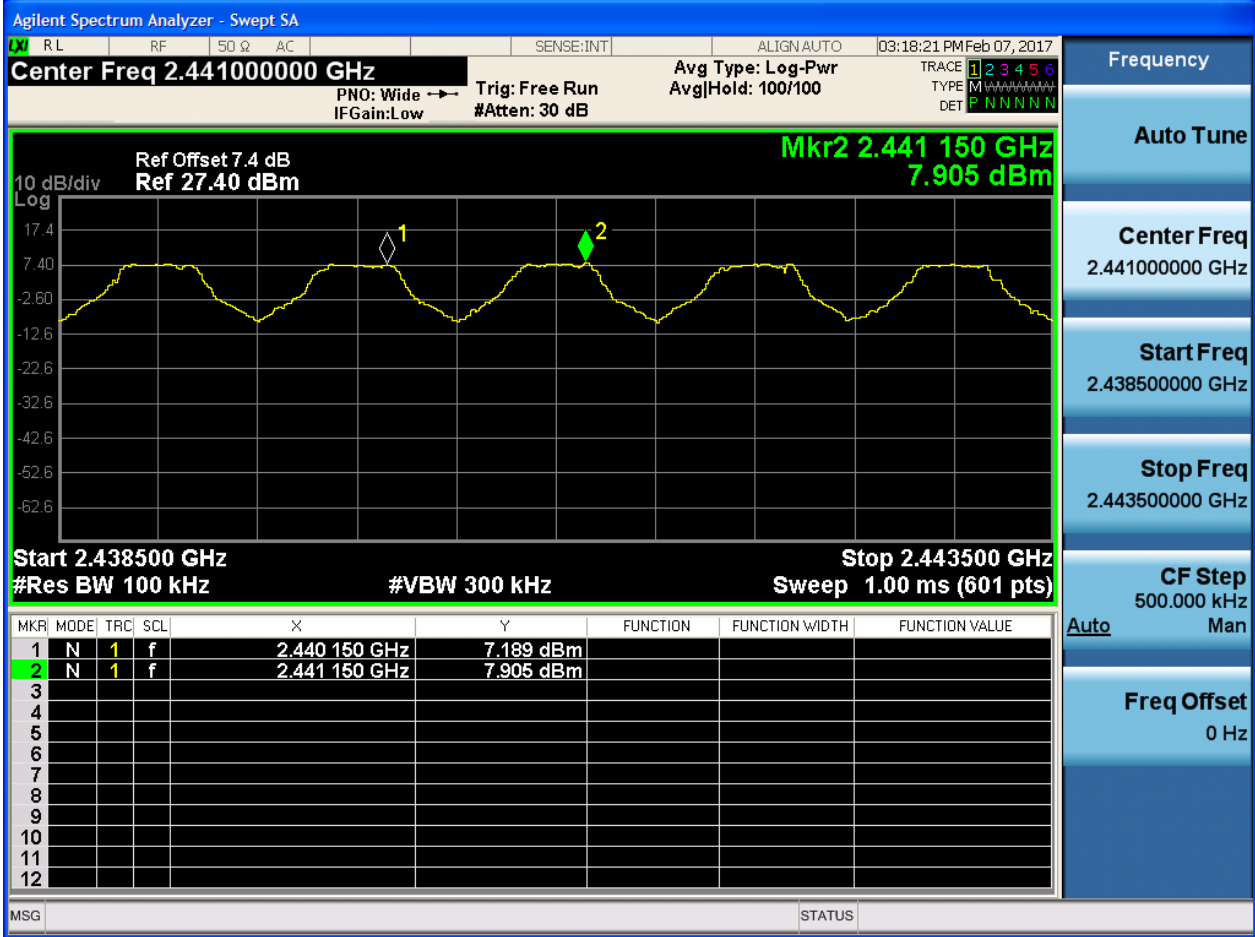
1 Result Table

EUT Conf.	Carrier Frequency Separation [MHz]	Verdict
TM1_DH5_Hop	1	Pass
TM2_2DH5_Hop	0.8	Pass
TM3_3DH5_Hop	1.2	Pass



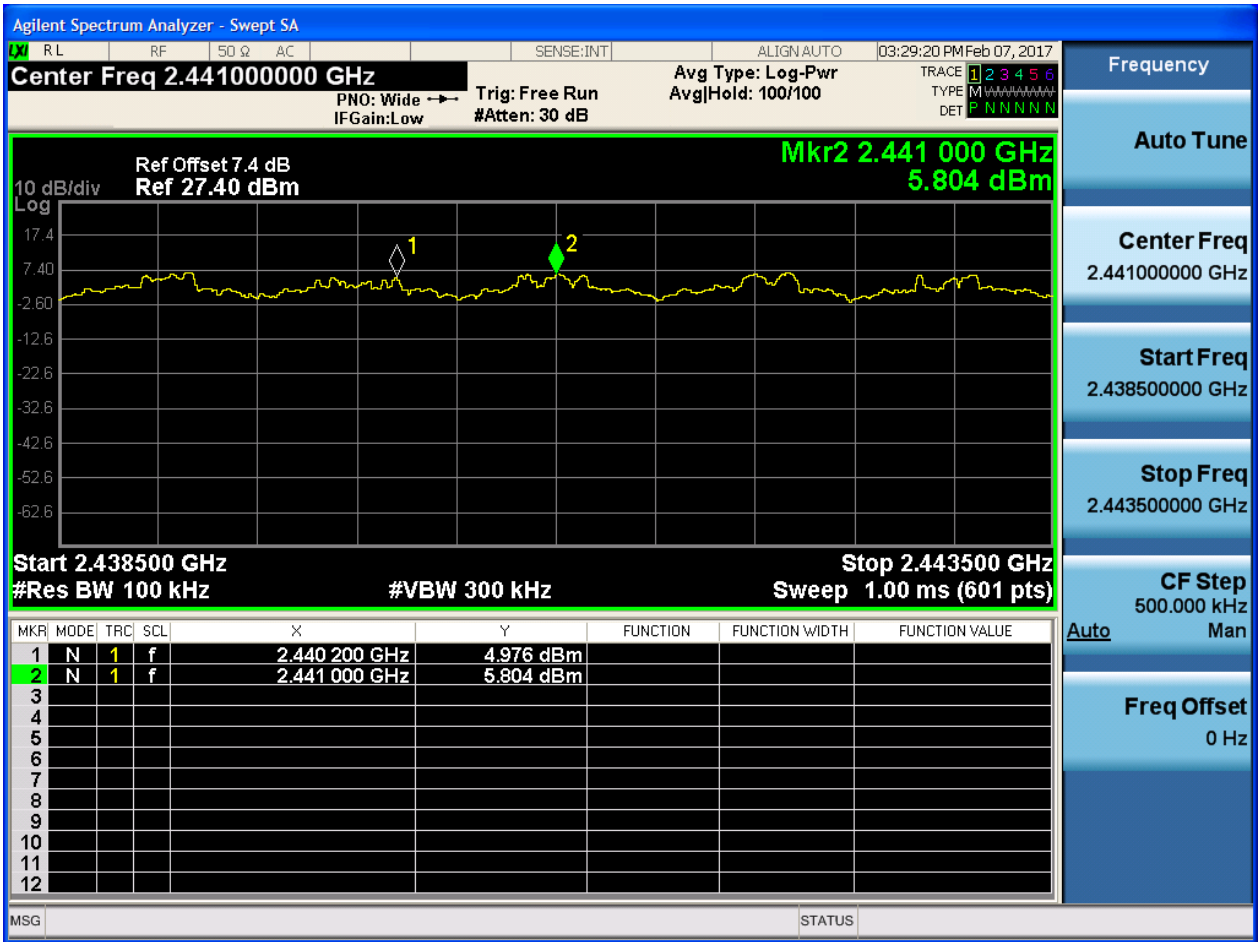
2 Test Plot

2.1 TM1_DH5_Hop



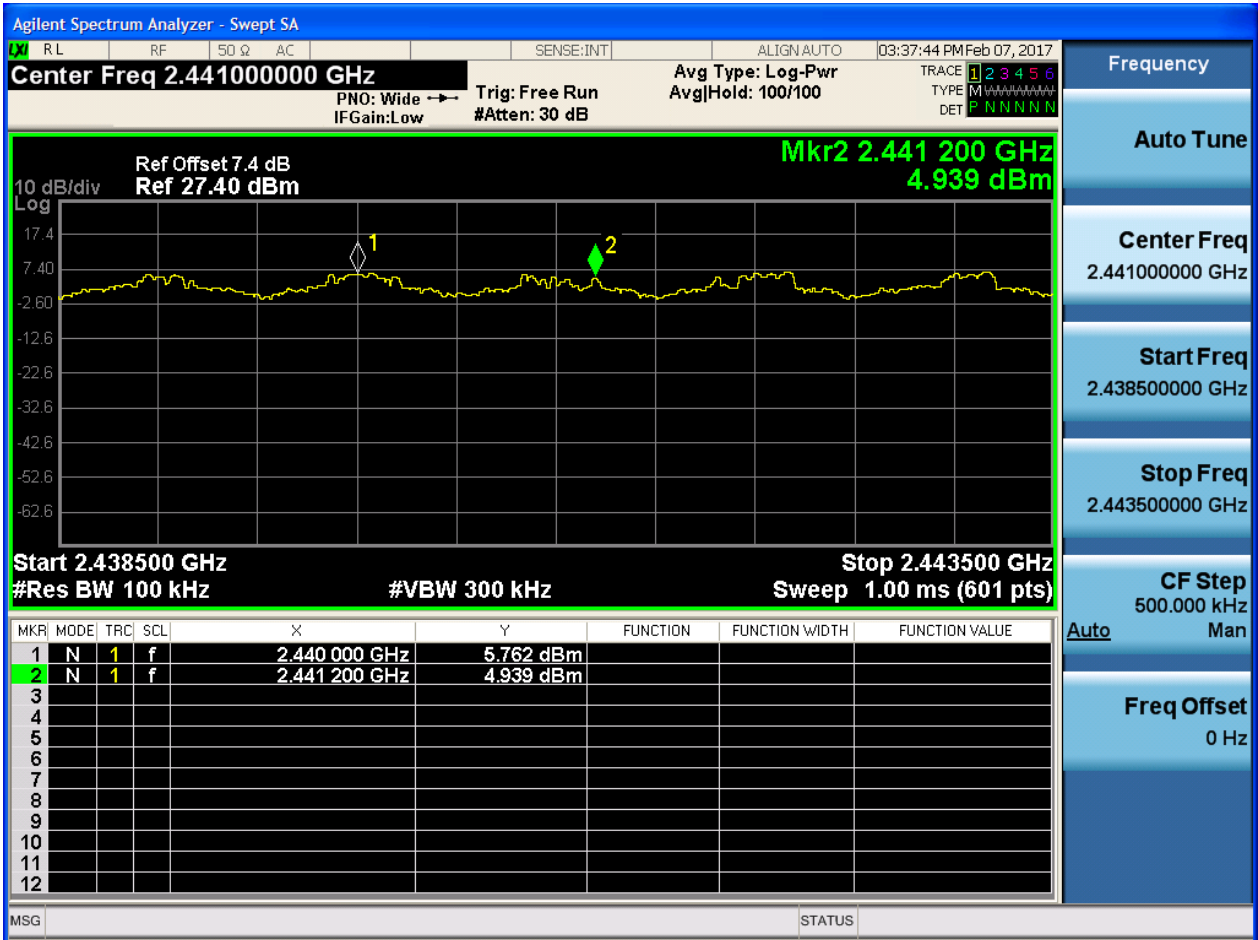


2.2 TM2_2DH5_Hop





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



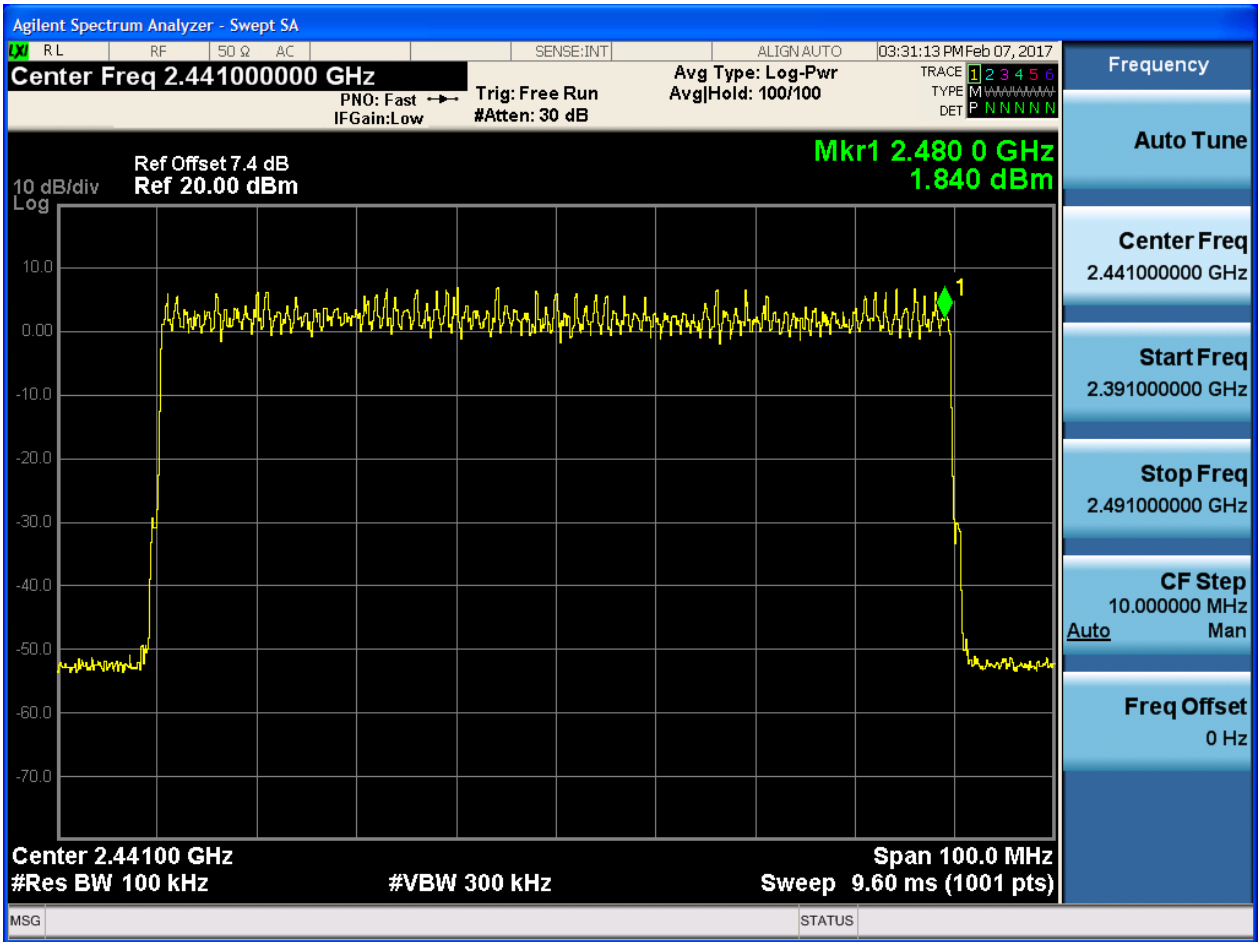
2 Test Plot

2.1 TM1_DH5_Hop



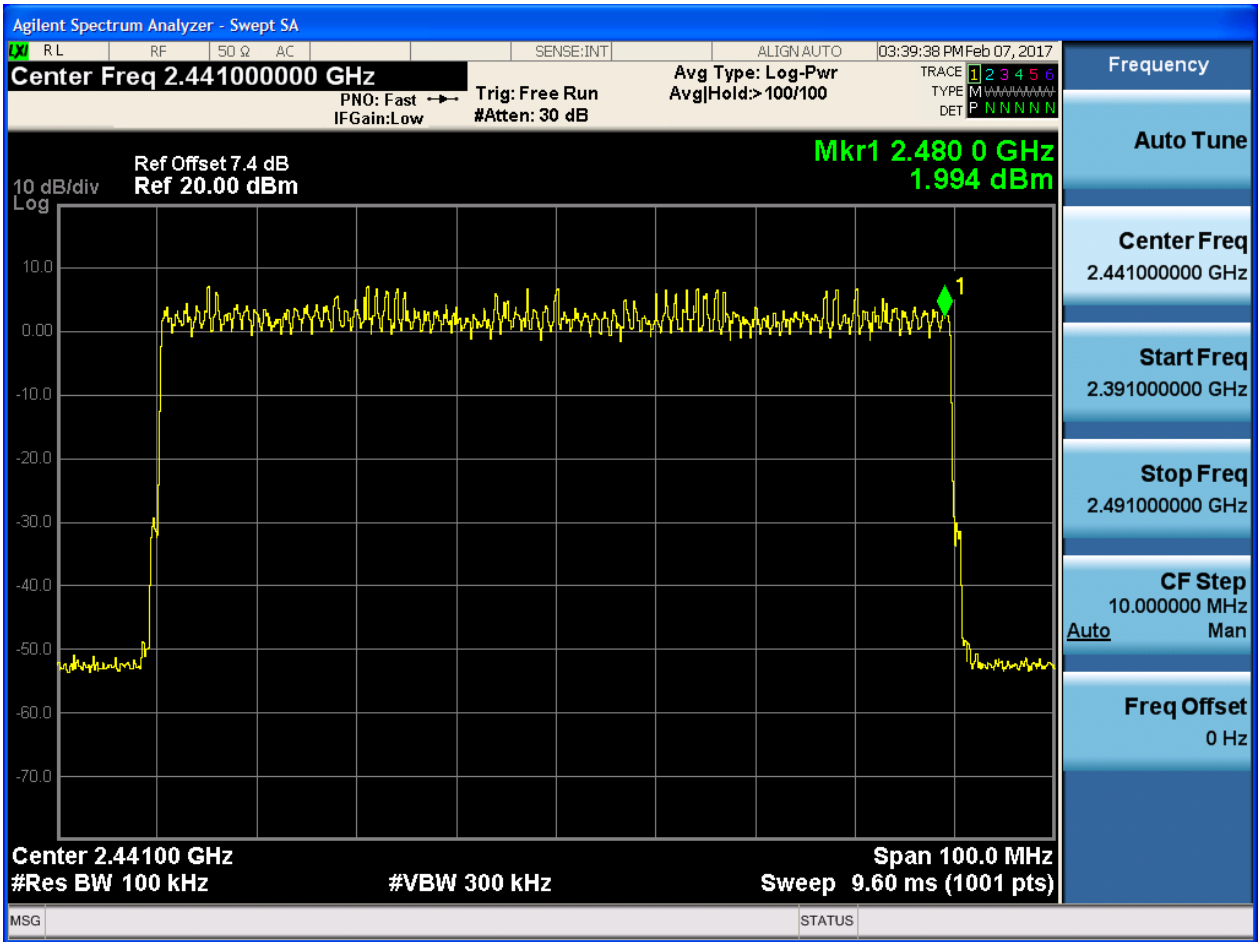


2.2 TM2_2DH5_Hop





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: $106.67 \text{ [hop*ch]} * \text{Burst Width [ms/hop/ch]}$.

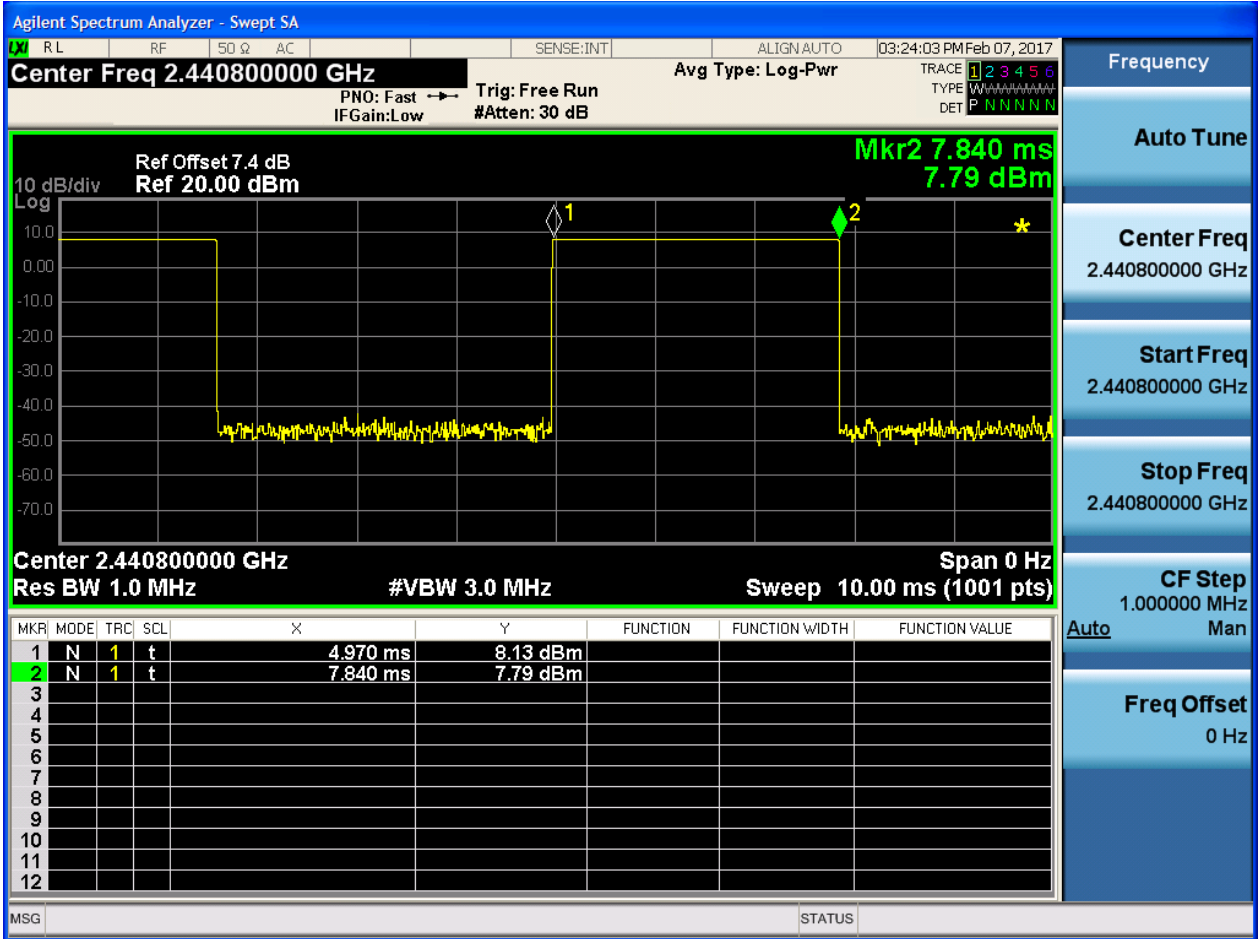
EUT Conf.	Burst Width [s/hop/ch]	Total Hops [hop*ch]	Dwell Time [s]	Verdict
TM1_DH5_Ch39	0.00287	106.67	0.306	Pass
TM2_2DH5_Ch39	0.00285	106.67	0.304	Pass
TM3_3DH5_Ch39	0.00284	106.67	0.303	Pass



2 Test Plot

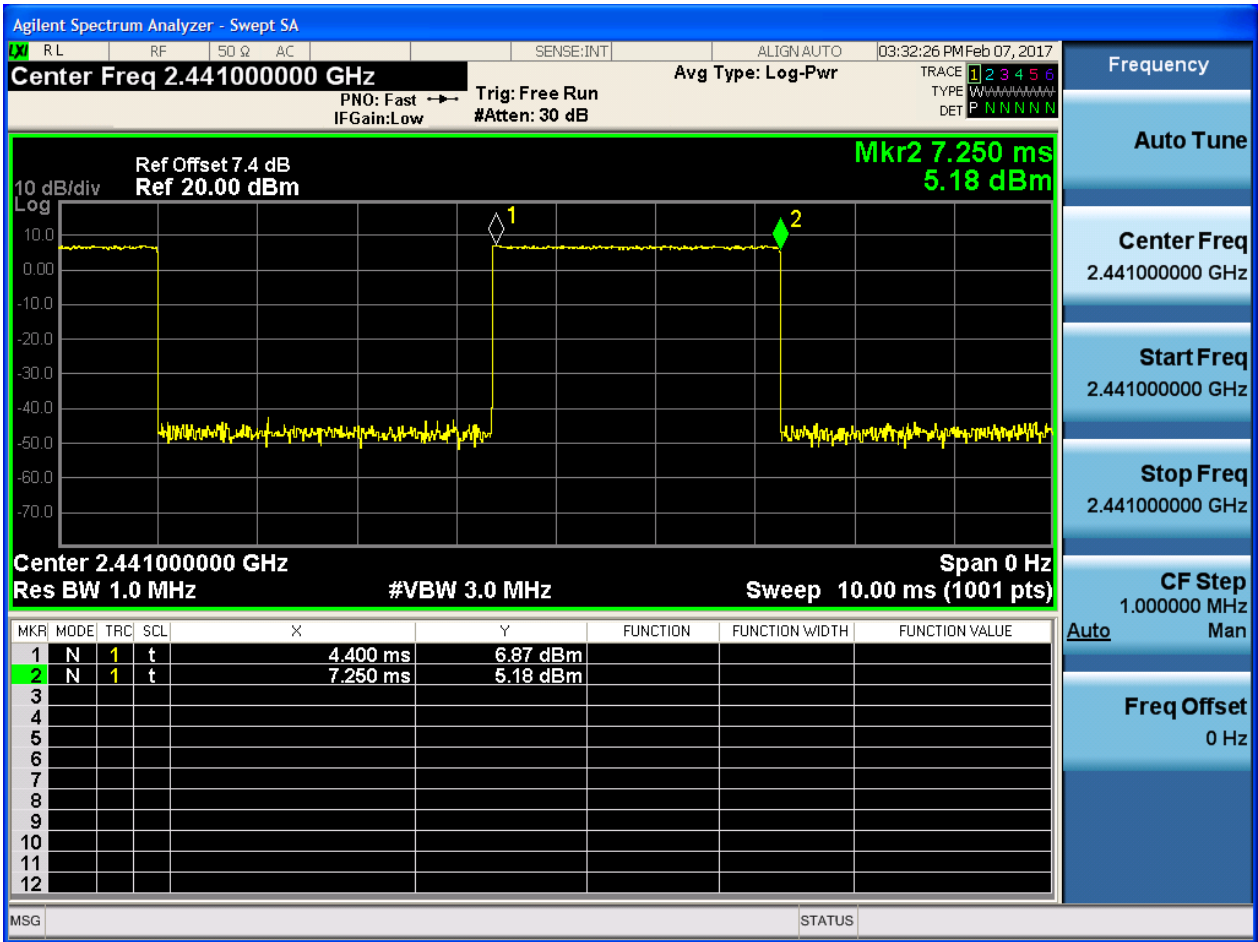
NOTE: The test plots are only for Burst Width measurements.

2.1 TM1_DH5_Ch39



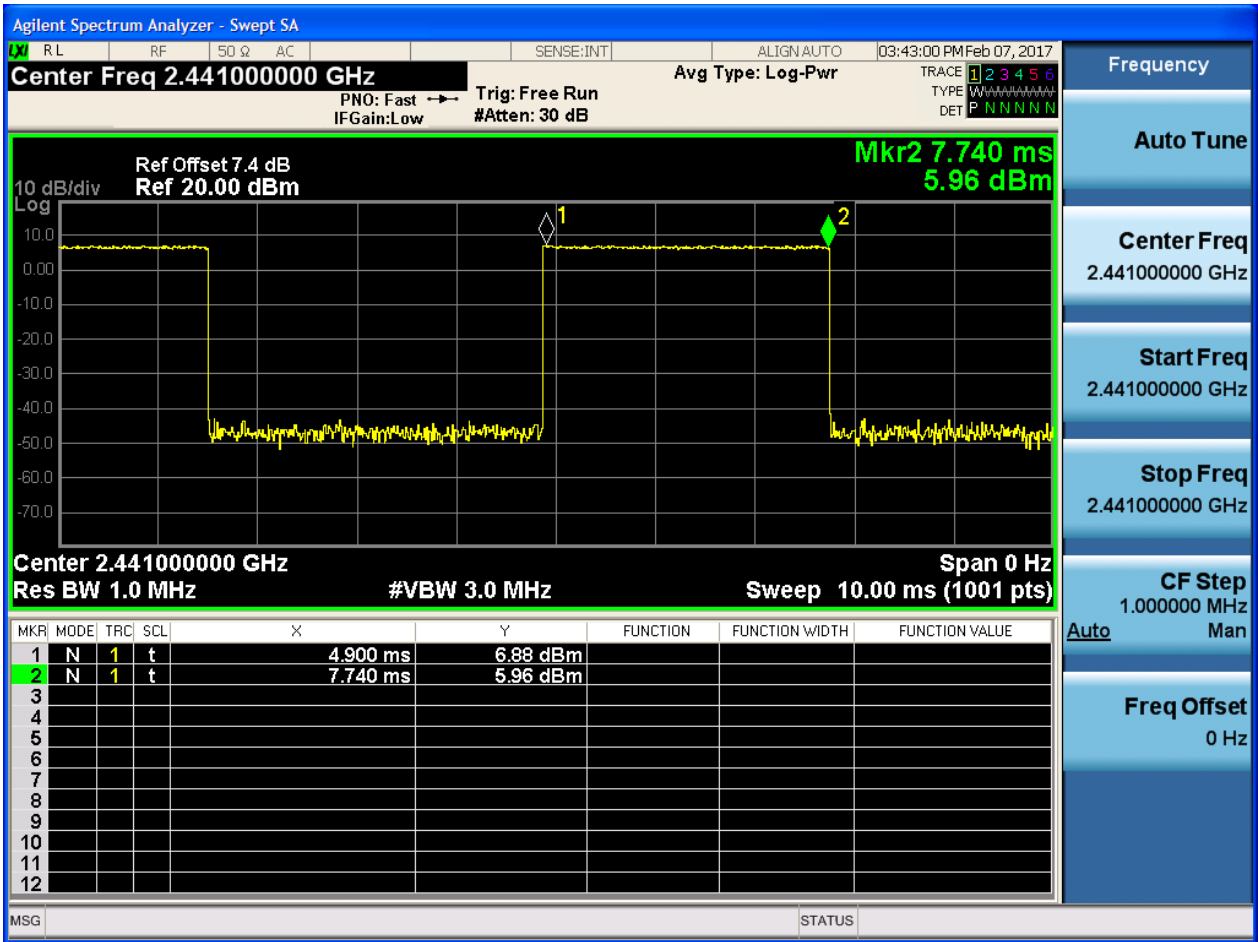


2.2 TM2_2DH5_Ch39





2.3 TM3_3DH5_Ch39





Appendix E: Maximum Peak Conducted Output Power



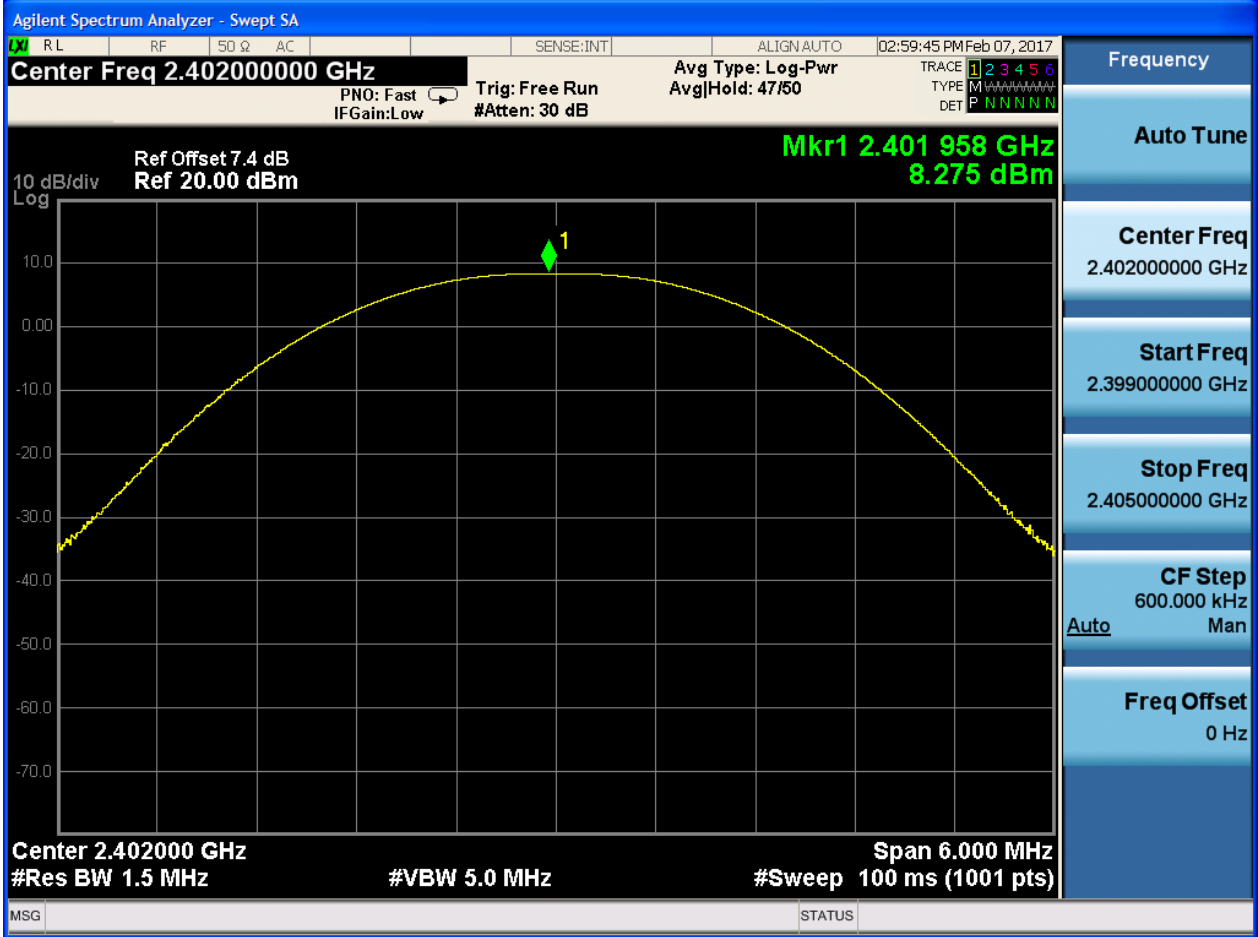
1 Result Table

EUT Conf.	Max. Peak Power [dBm]	Verdict
TM1_DH5_Ch0	8.275	Pass
TM1_DH5_Ch39	8.175	Pass
TM1_DH5_Ch78	8.311	Pass
TM2_2DH5_Ch0	7.477	Pass
TM2_2DH5_Ch39	7.4	Pass
TM2_2DH5_Ch78	7.491	Pass
TM3_3DH5_Ch0	7.511	Pass
TM3_3DH5_Ch39	7.425	Pass
TM3_3DH5_Ch78	7.502	Pass



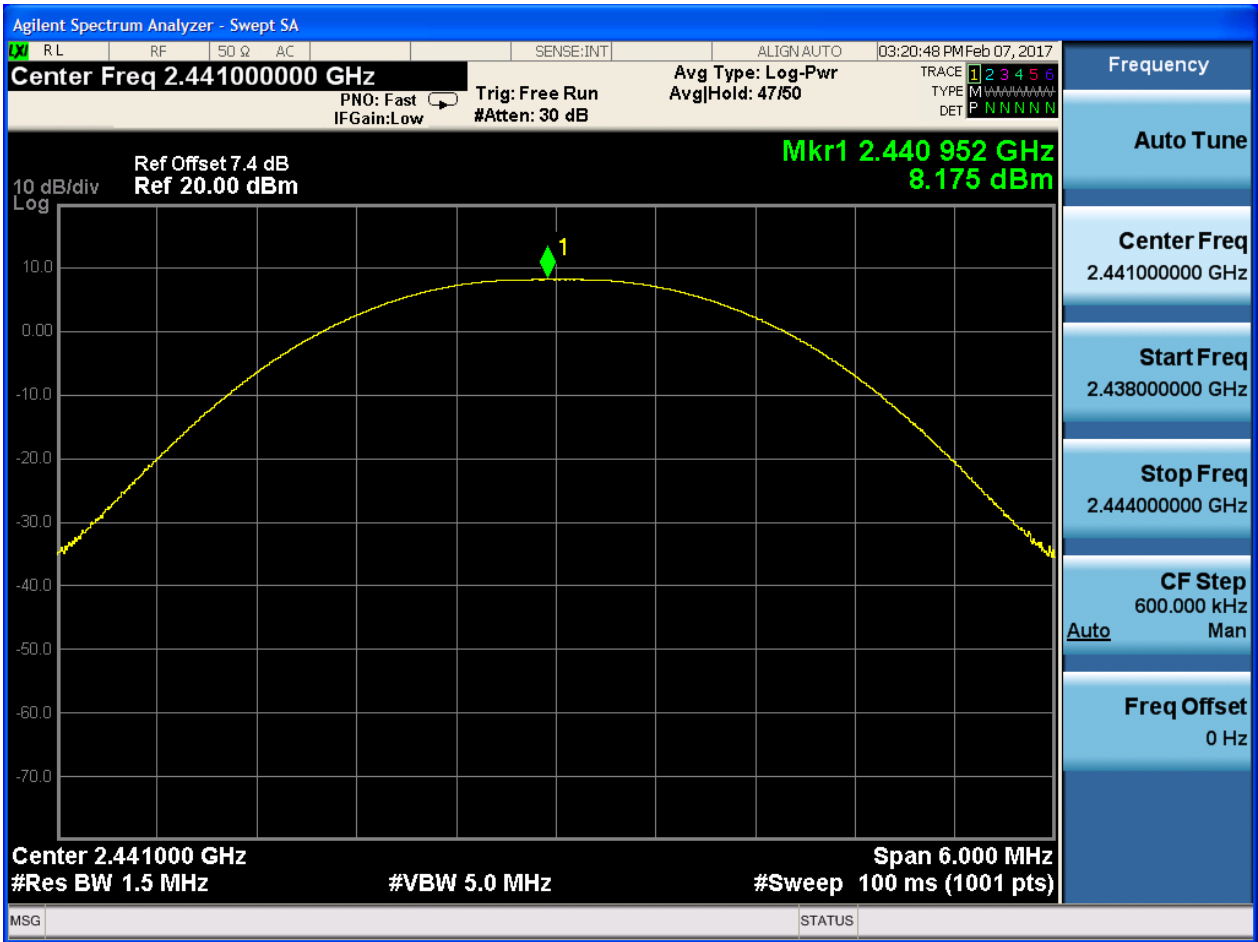
2 Test Plot

2.1 TM1_DH5_Ch0



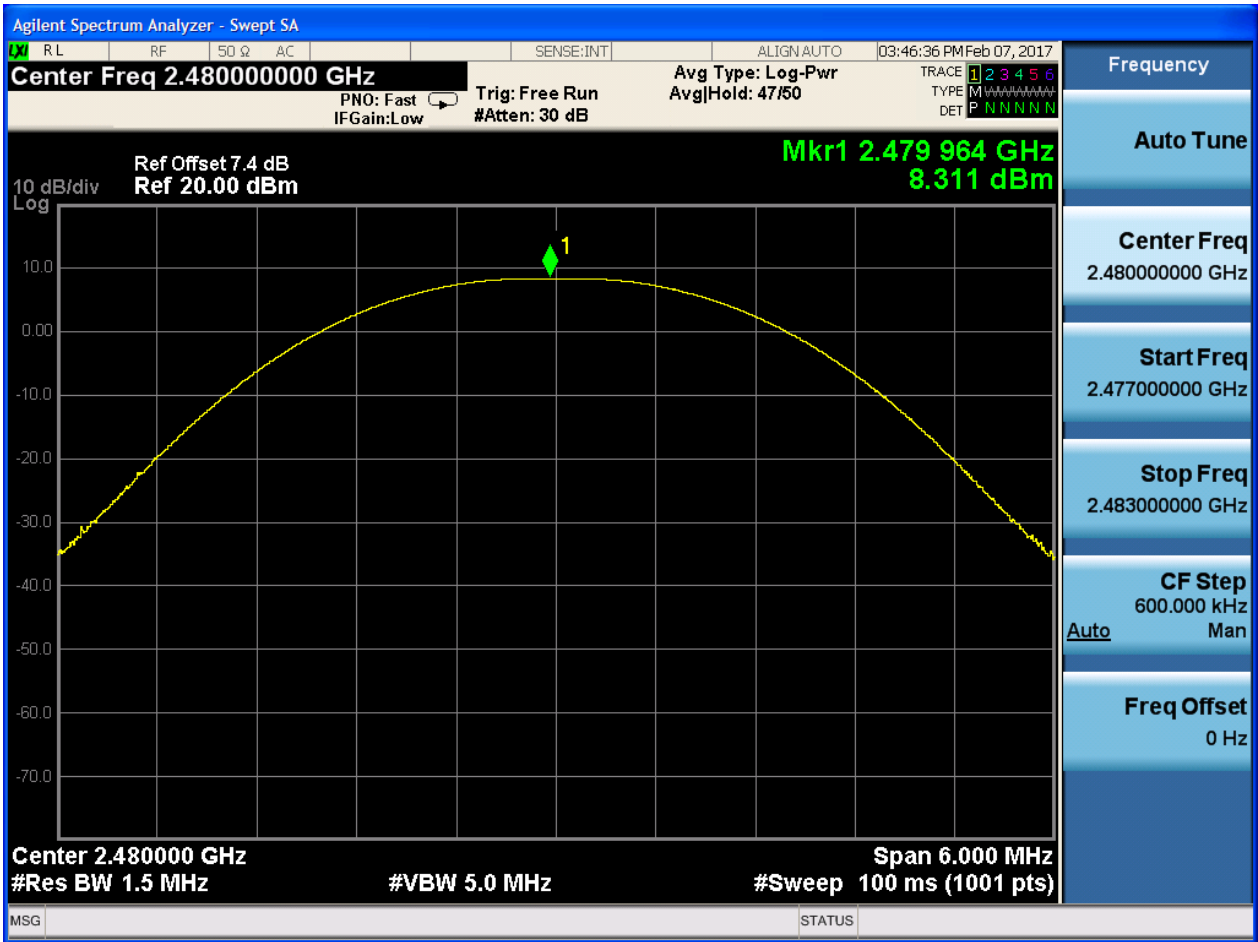


2.2 TM1_DH5_Ch39



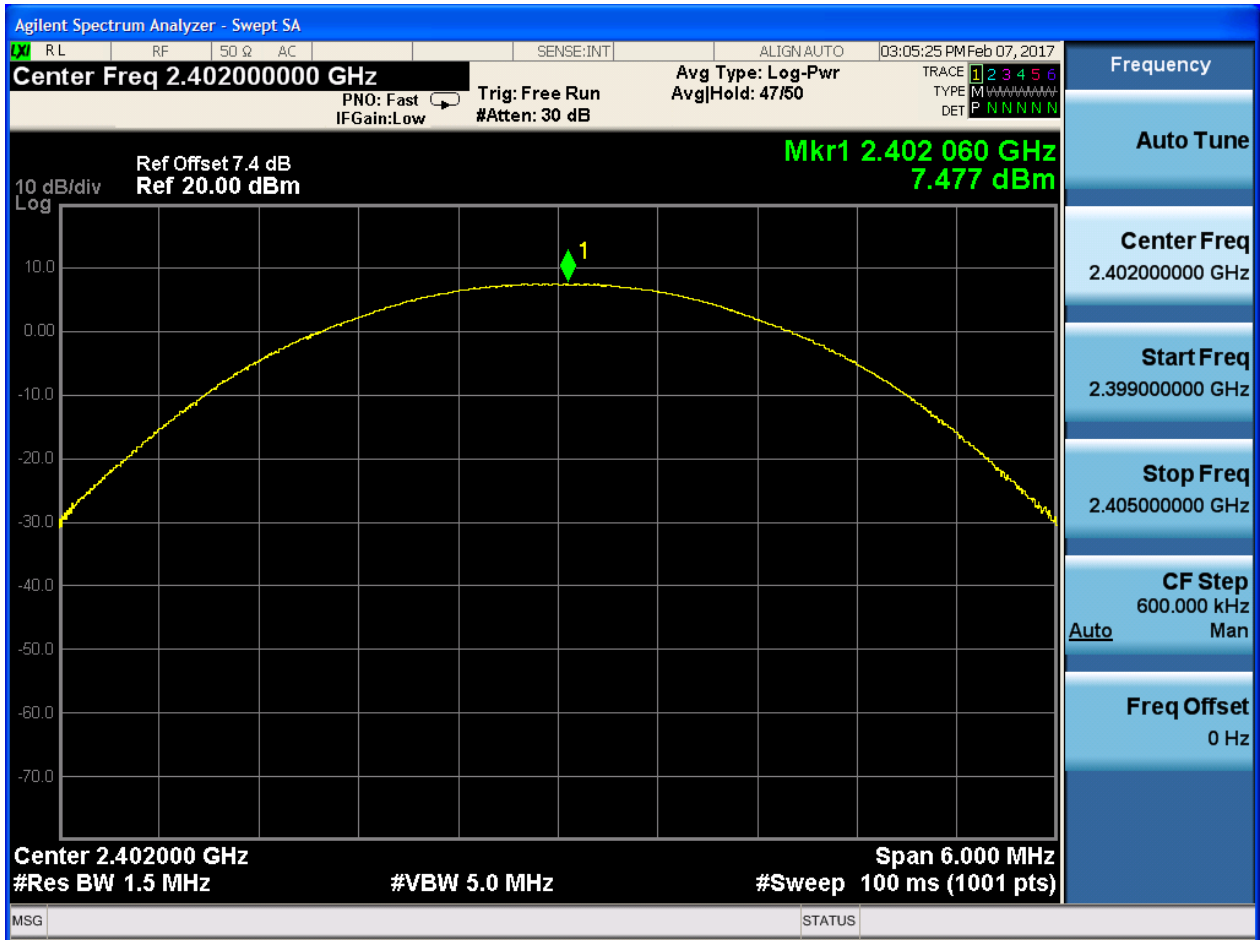


2.3 TM1_DH5_Ch78



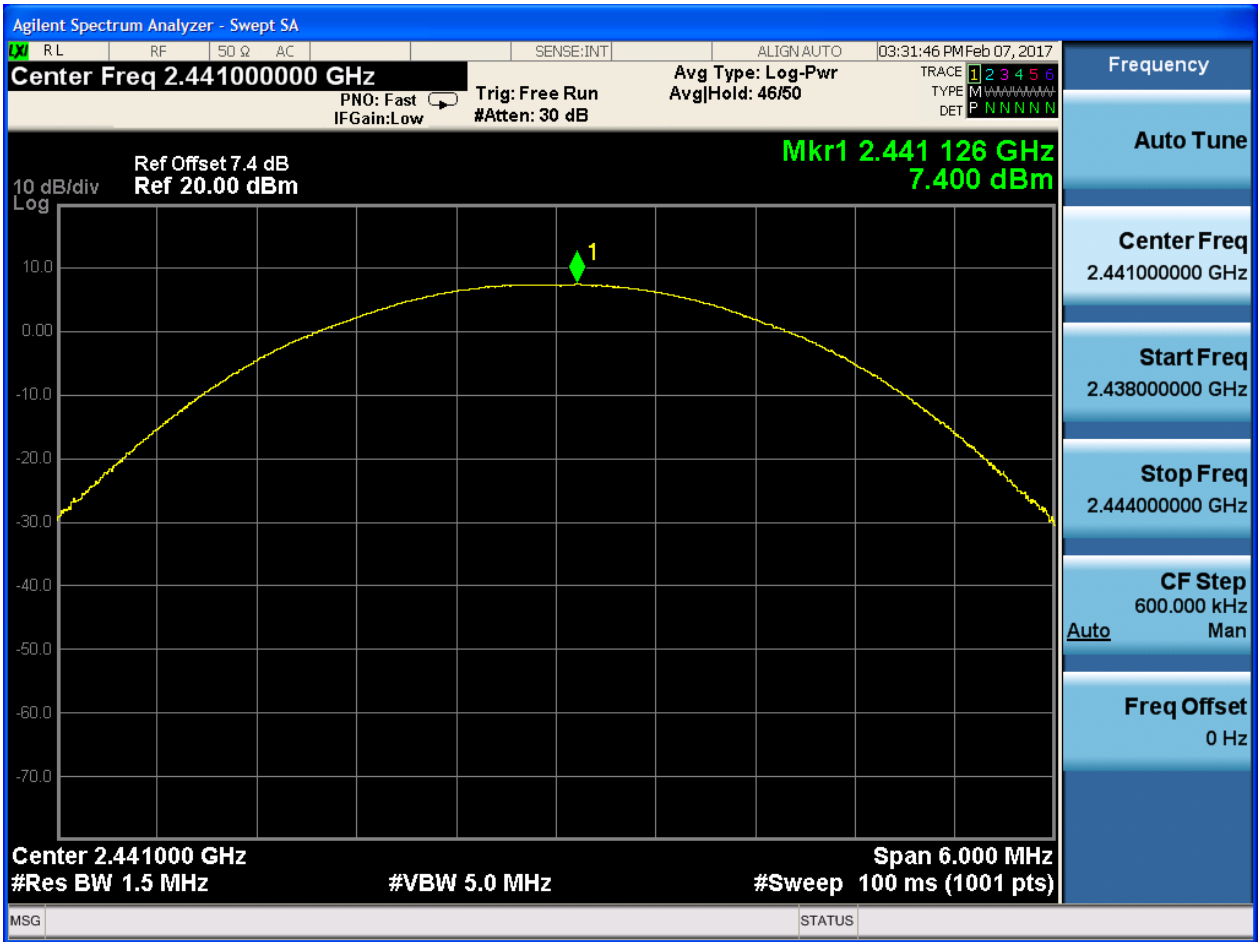


2.4 TM2_2DH5_Ch0



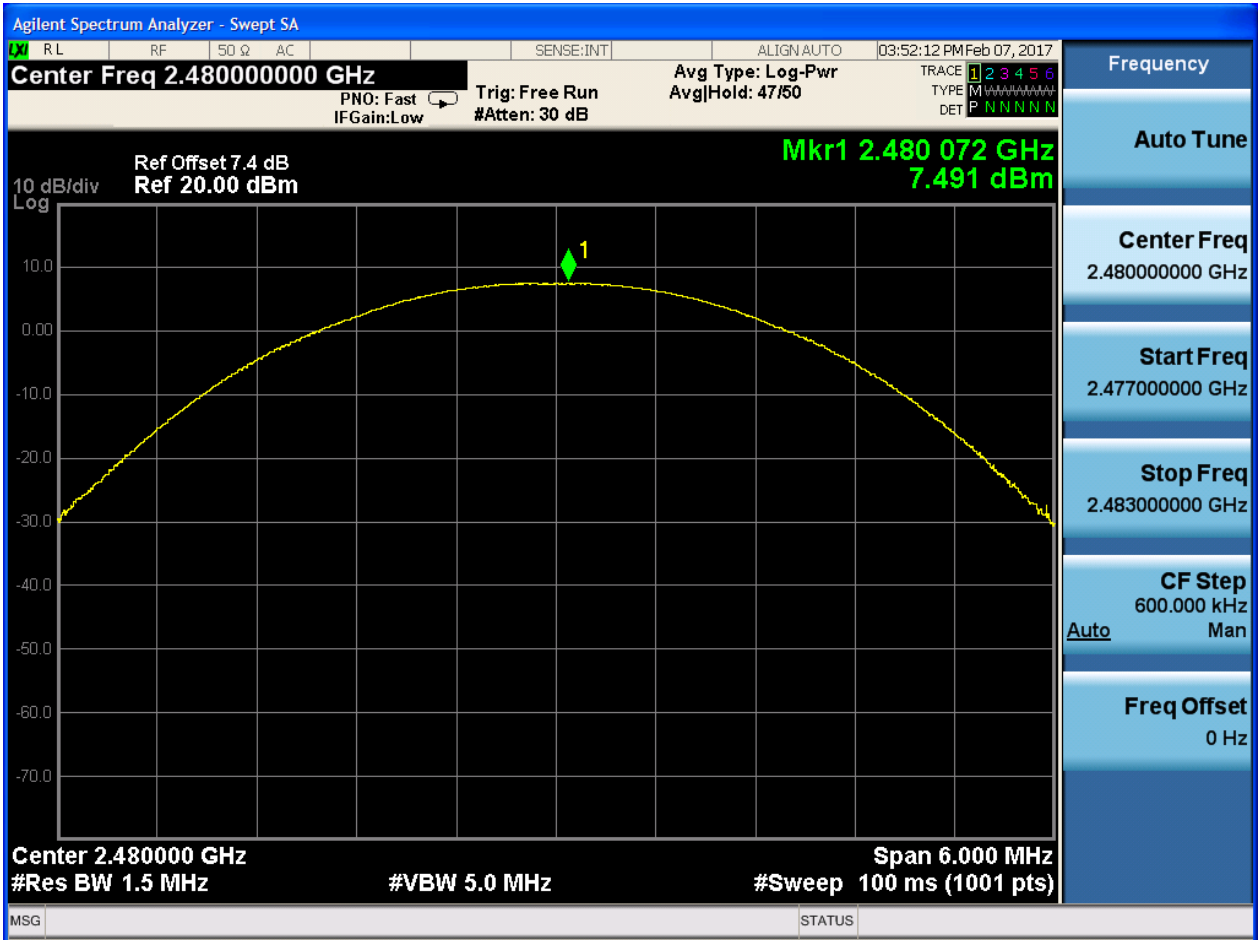


2.5 TM2_2DH5_Ch39



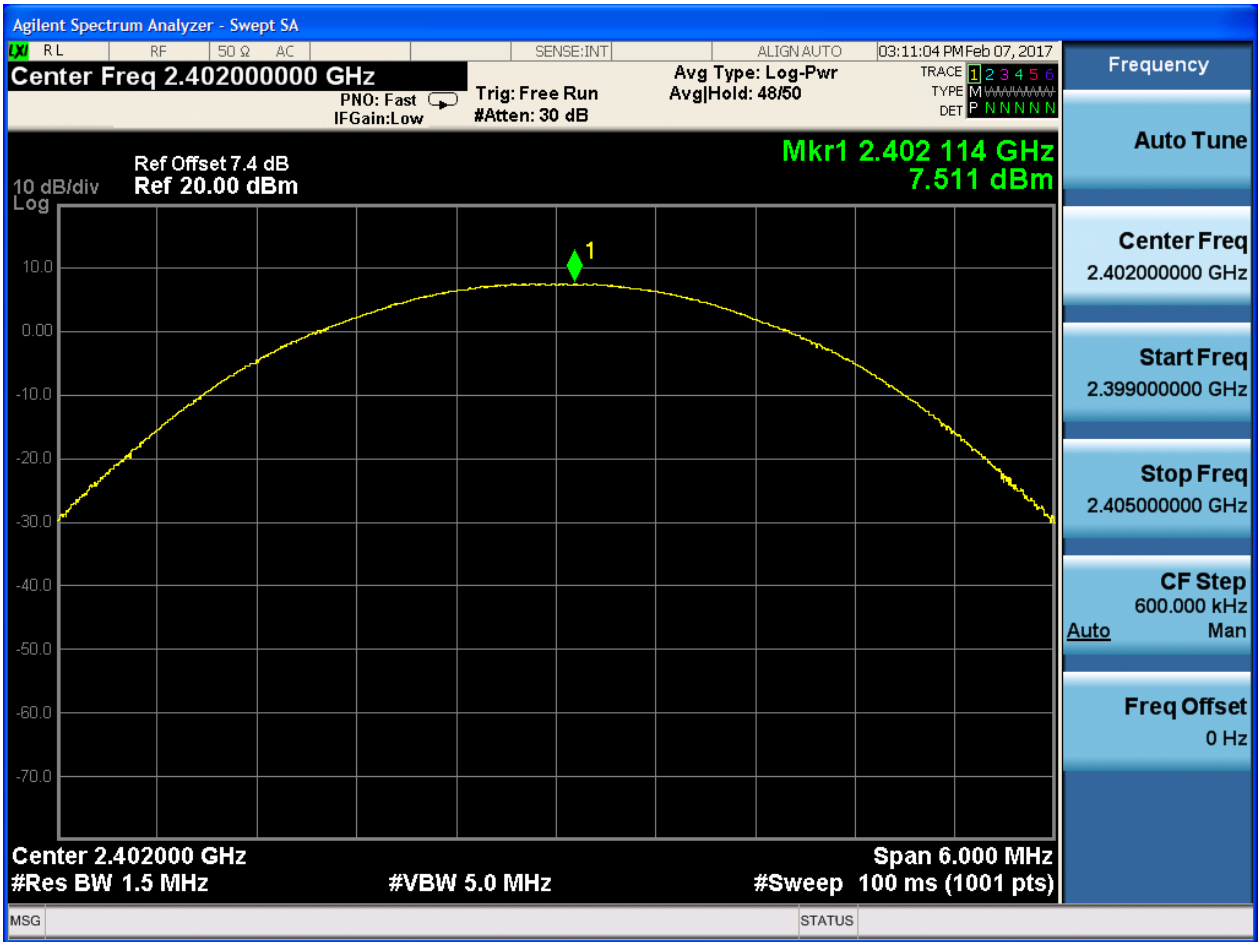


2.6 TM2_2DH5_Ch78



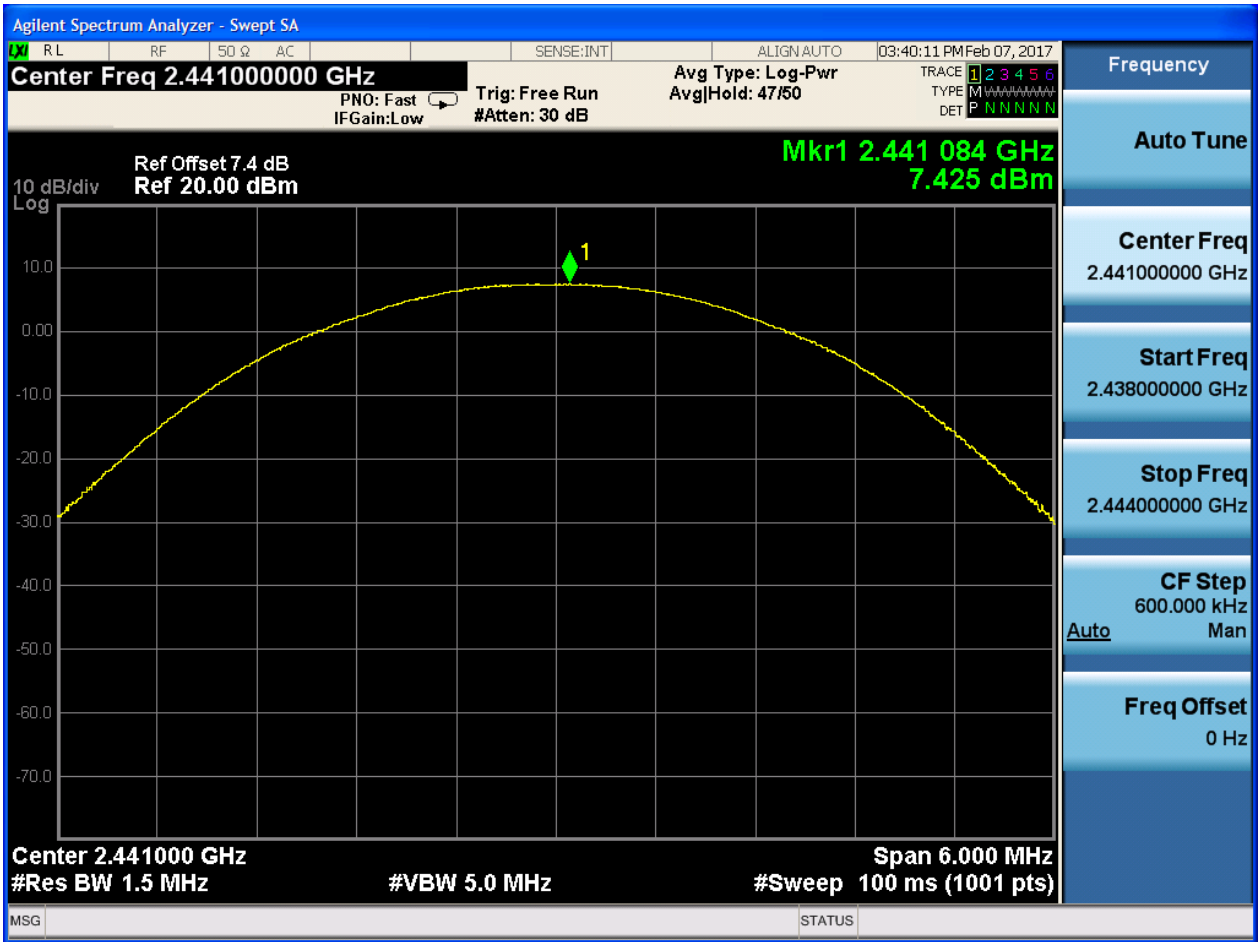


2.7 TM3_3DH5_Ch0



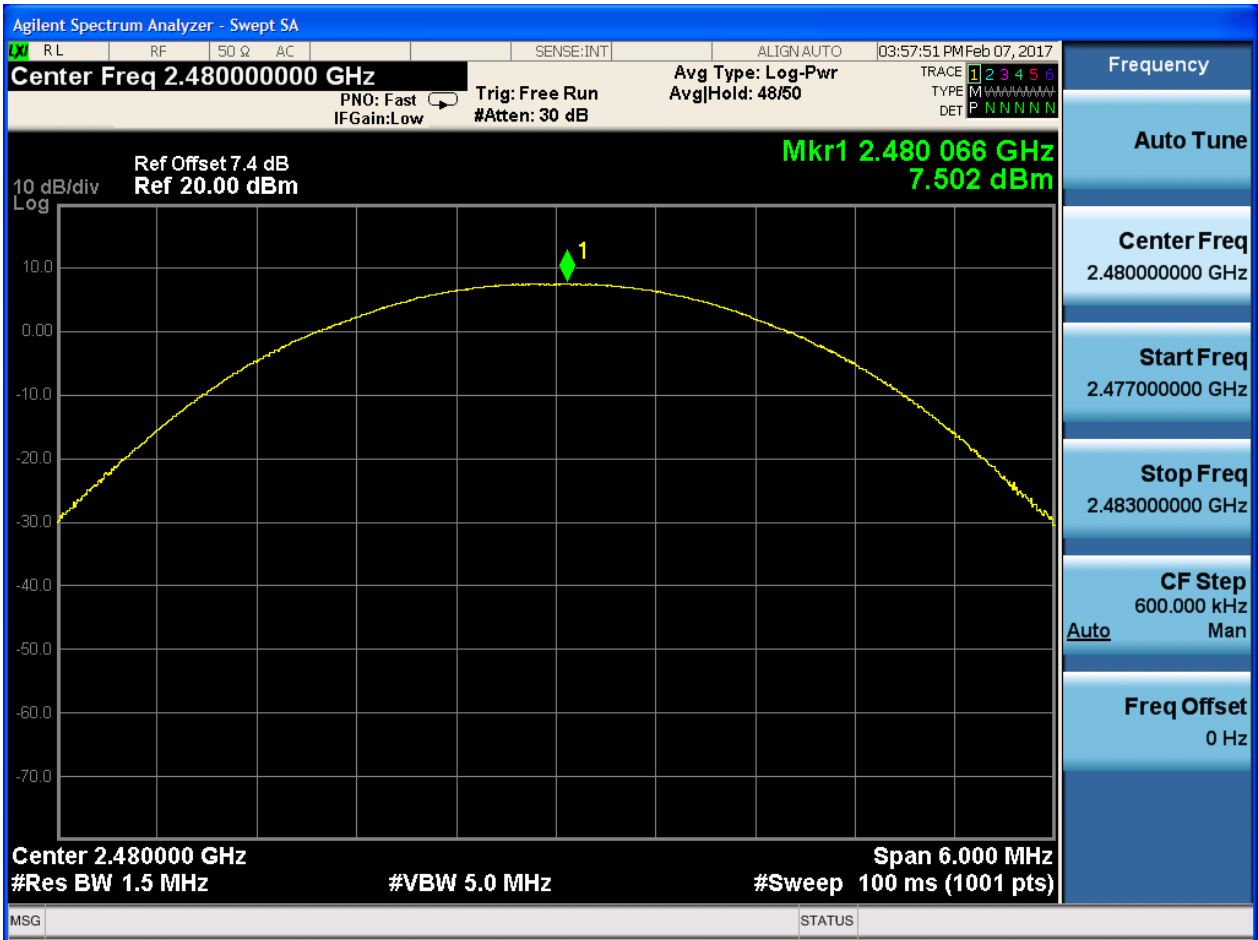


2.8 TM3_3DH5_Ch39





2.9 TM3_3DH5_Ch78





Appendix F: Band edge spurious emission



1 Result Table

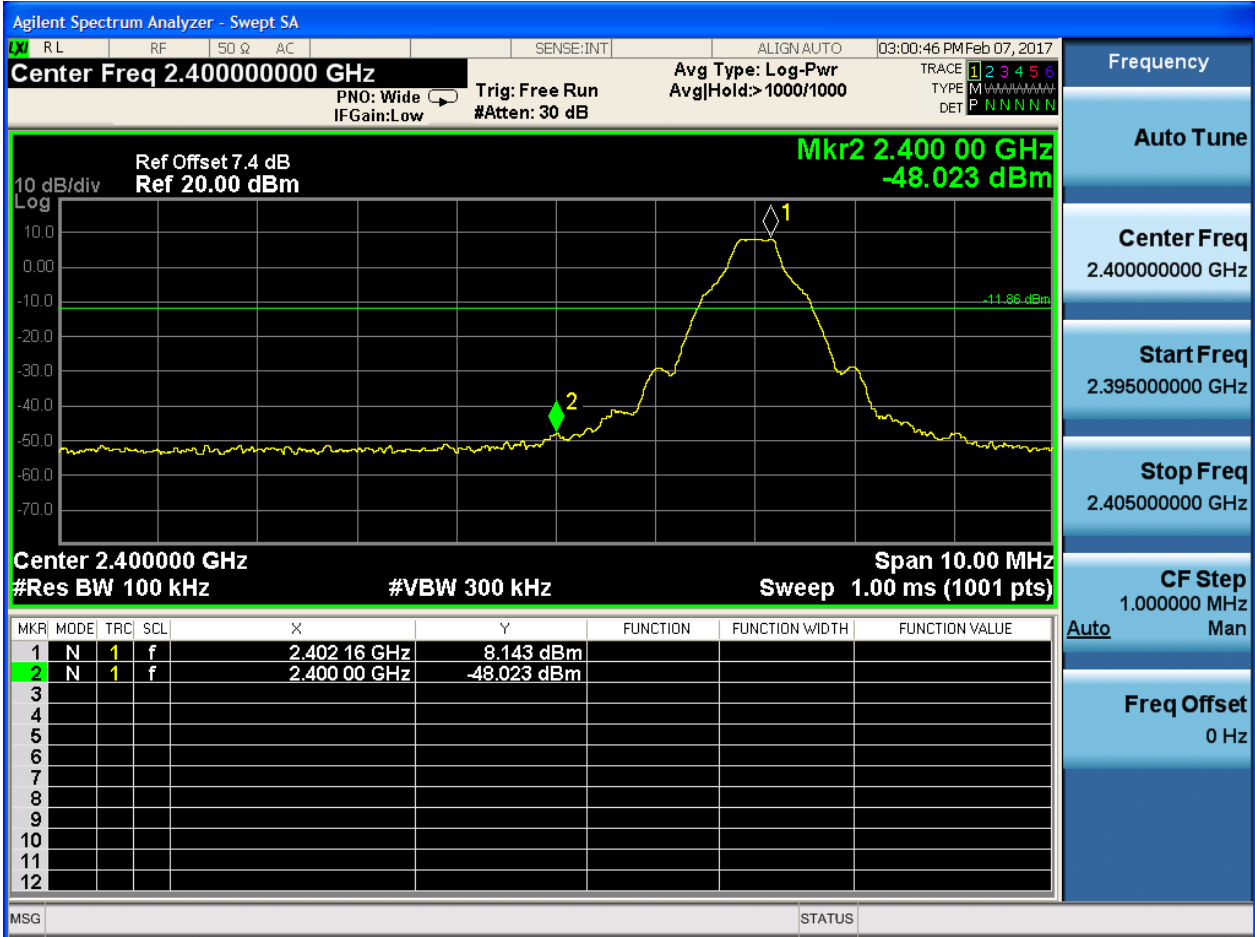
EUT Conf.	Channel No.	Carrier Frequency [MHz]	Max. Spurious Level [dBm]	Frequency Hopping	Carrier Power [dBm]	Limit [dBm]	Result
TM1_DH5 _Ch0	0	2402	-48.023	Off	8.143	-11.857	Pass
	-	-	-52.965	On	8.138	-11.862	Pass
TM1_DH5 _Ch78	78	2480	-51.674	Off	8.284	-11.716	Pass
	-	-	-52.923	On	7.822	-12.178	Pass
TM2_2DH 5_Ch0	0	2402	-48.389	Off	6.852	-13.148	Pass
	-	-	-49.409	On	5.534	-14.466	Pass
TM2_2DH 5_Ch78	78	2480	-50.929	Off	6.845	-13.155	Pass
	-	-	-53.45	On	4.948	-15.052	Pass
TM3_3DH 5_Ch0	0	2402	-48.238	Off	6.891	-13.109	Pass
	-	-	-51.46	On	6.722	-13.278	Pass
TM3_3DH 5_Ch78	78	2480	-51.502	Off	6.862	-13.138	Pass
	-	-	-51.803	On	6.271	-13.729	Pass



2 Test Plot

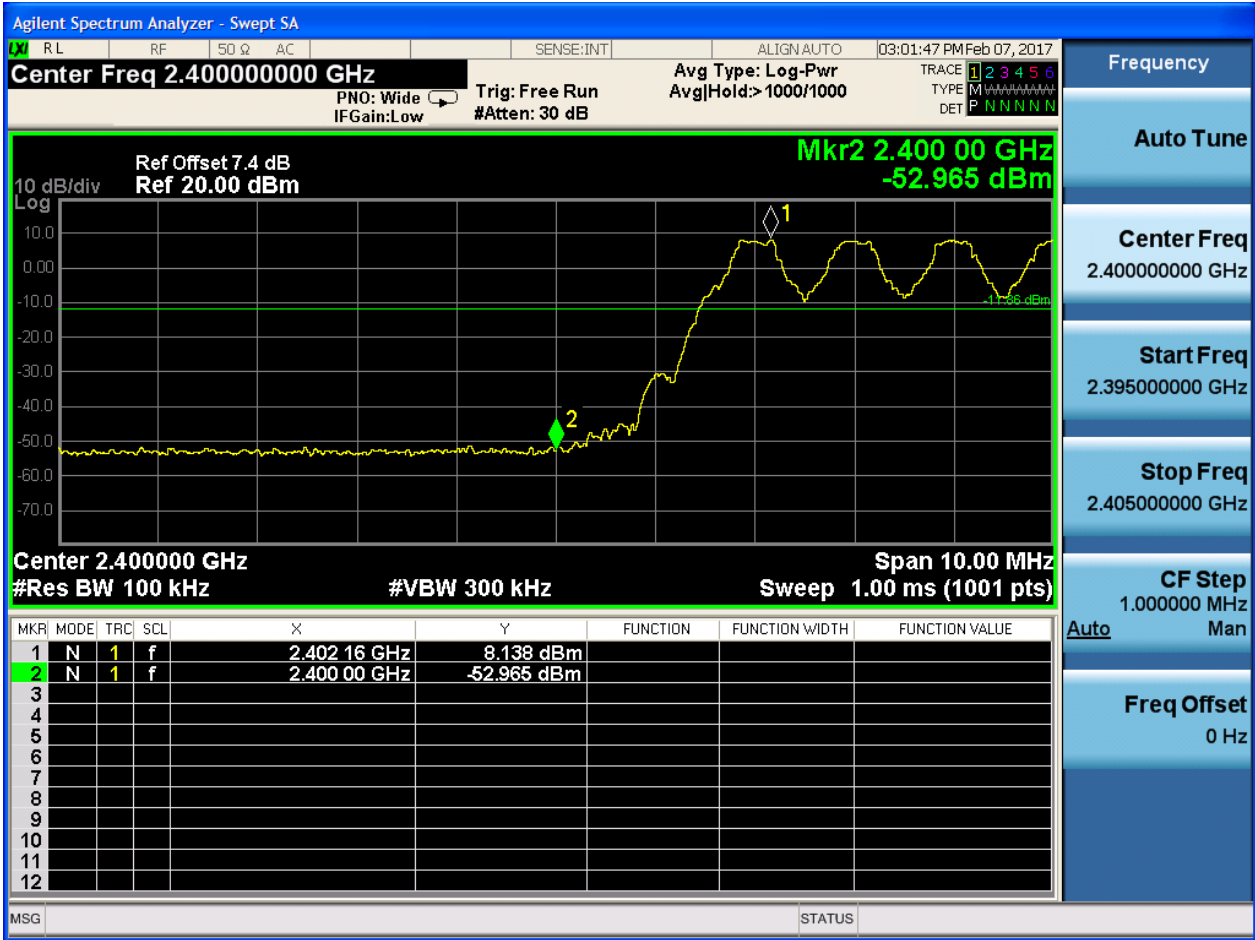
2.1 TM1_DH5_Ch0

No hopping





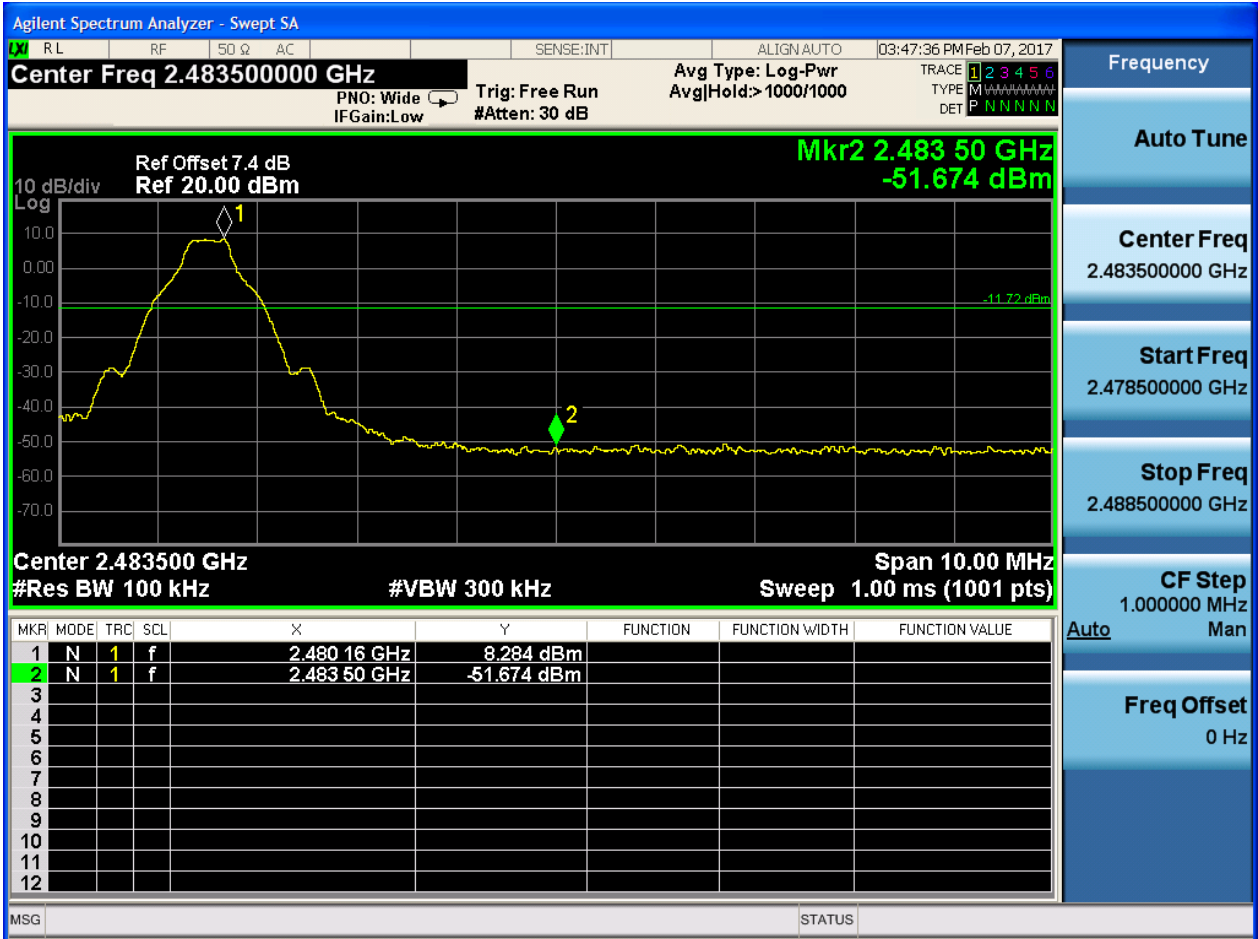
With hopping





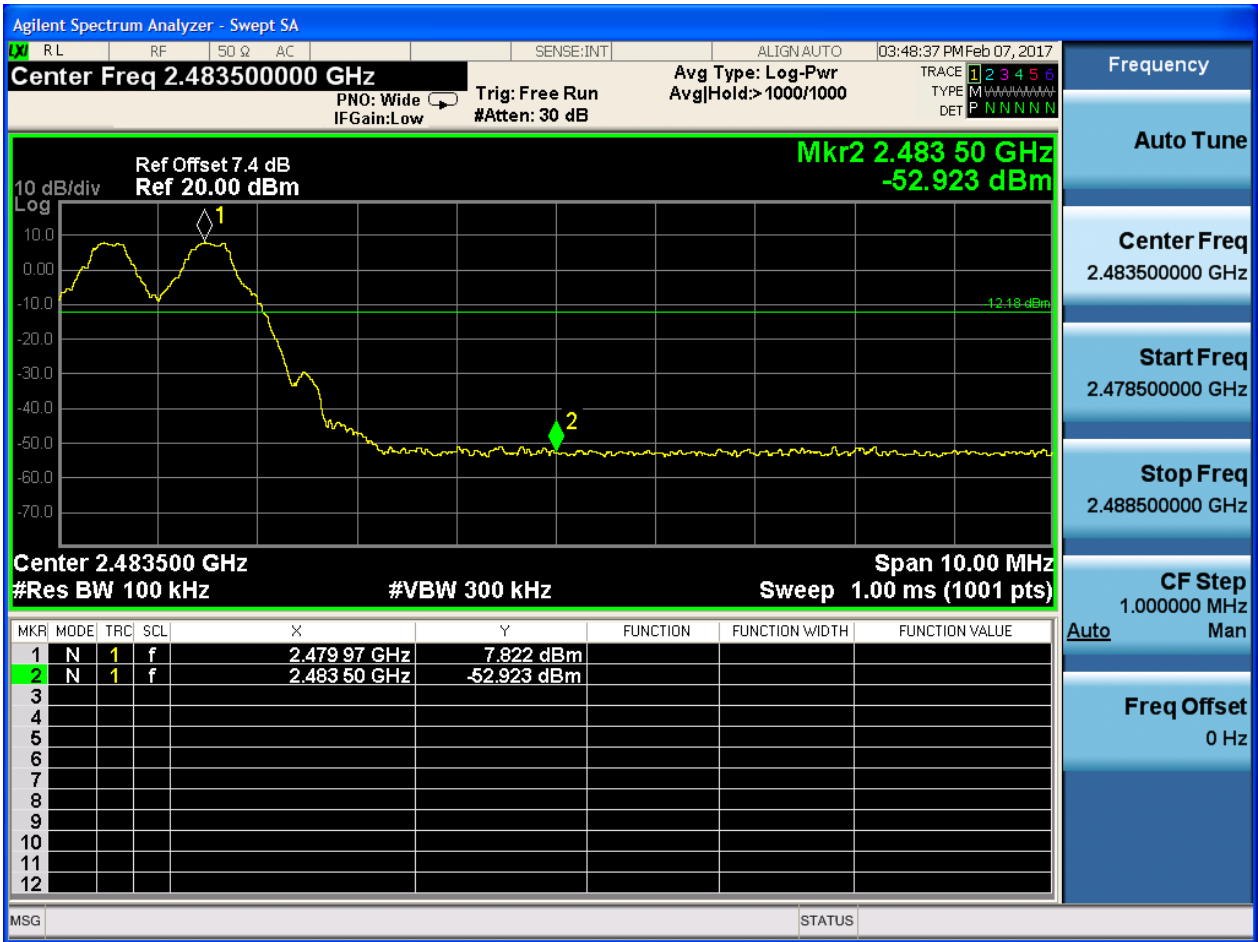
2.2 TM1_DH5_Ch78

No hopping





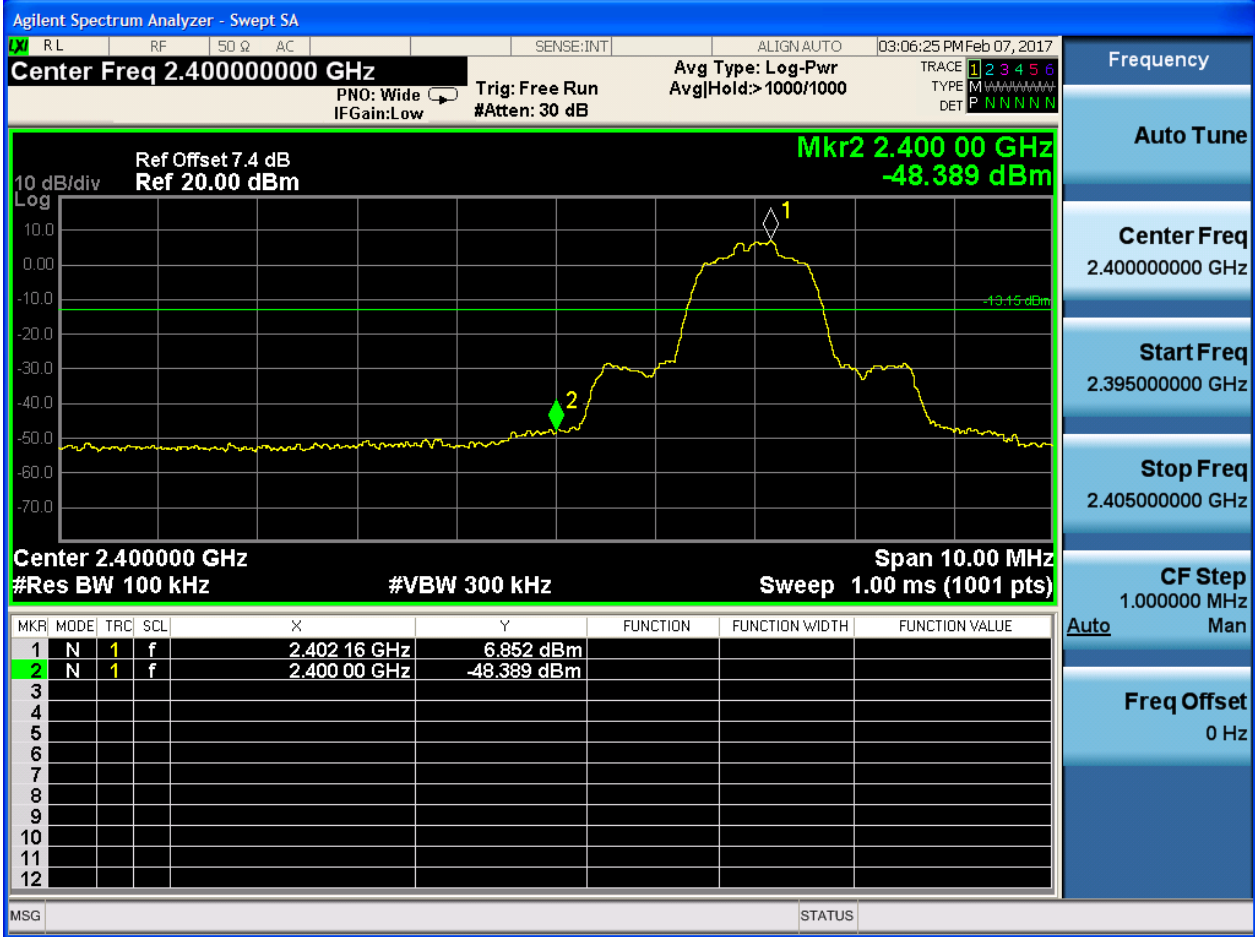
With hopping



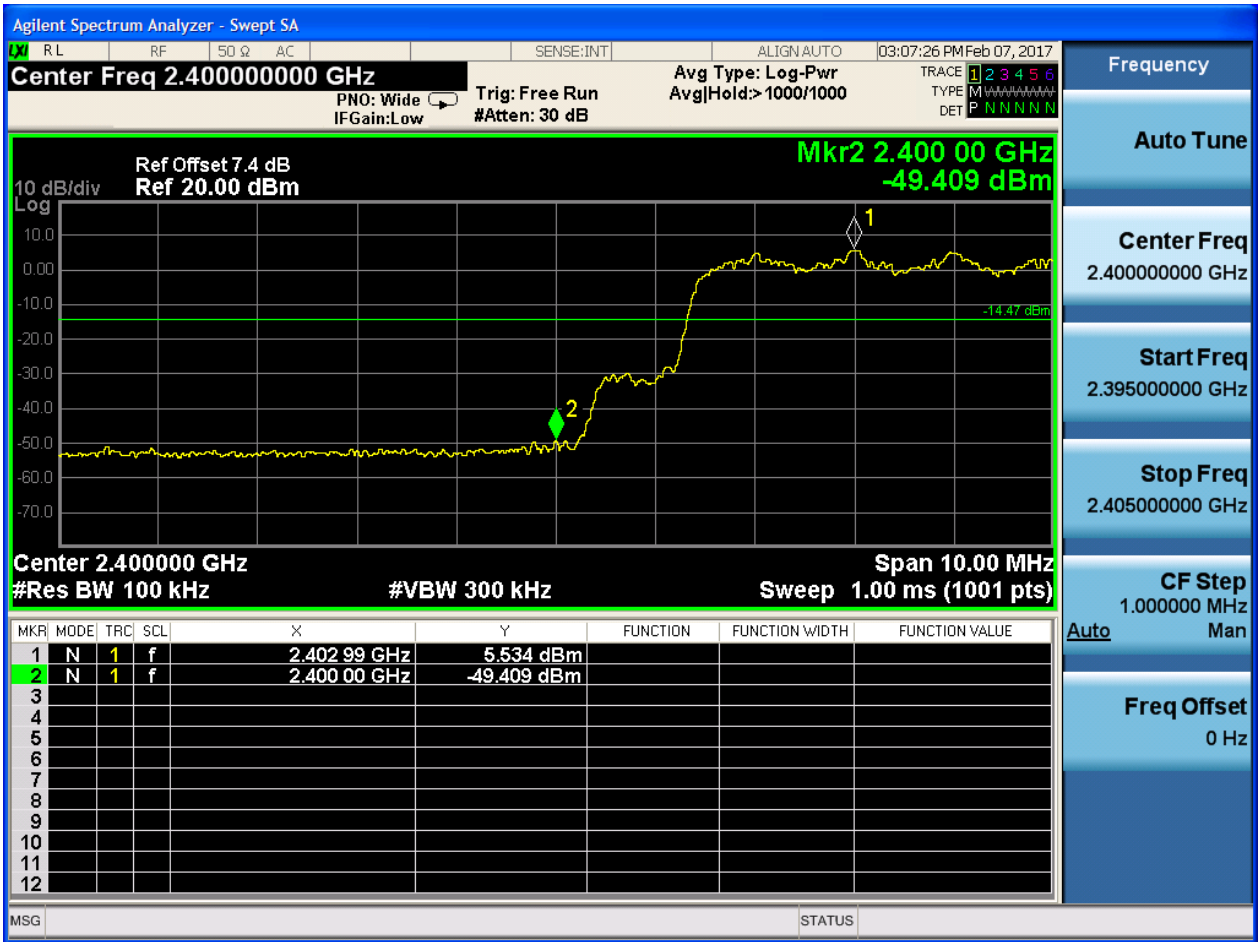


2.3 TM2_2DH5_Ch0

No hopping



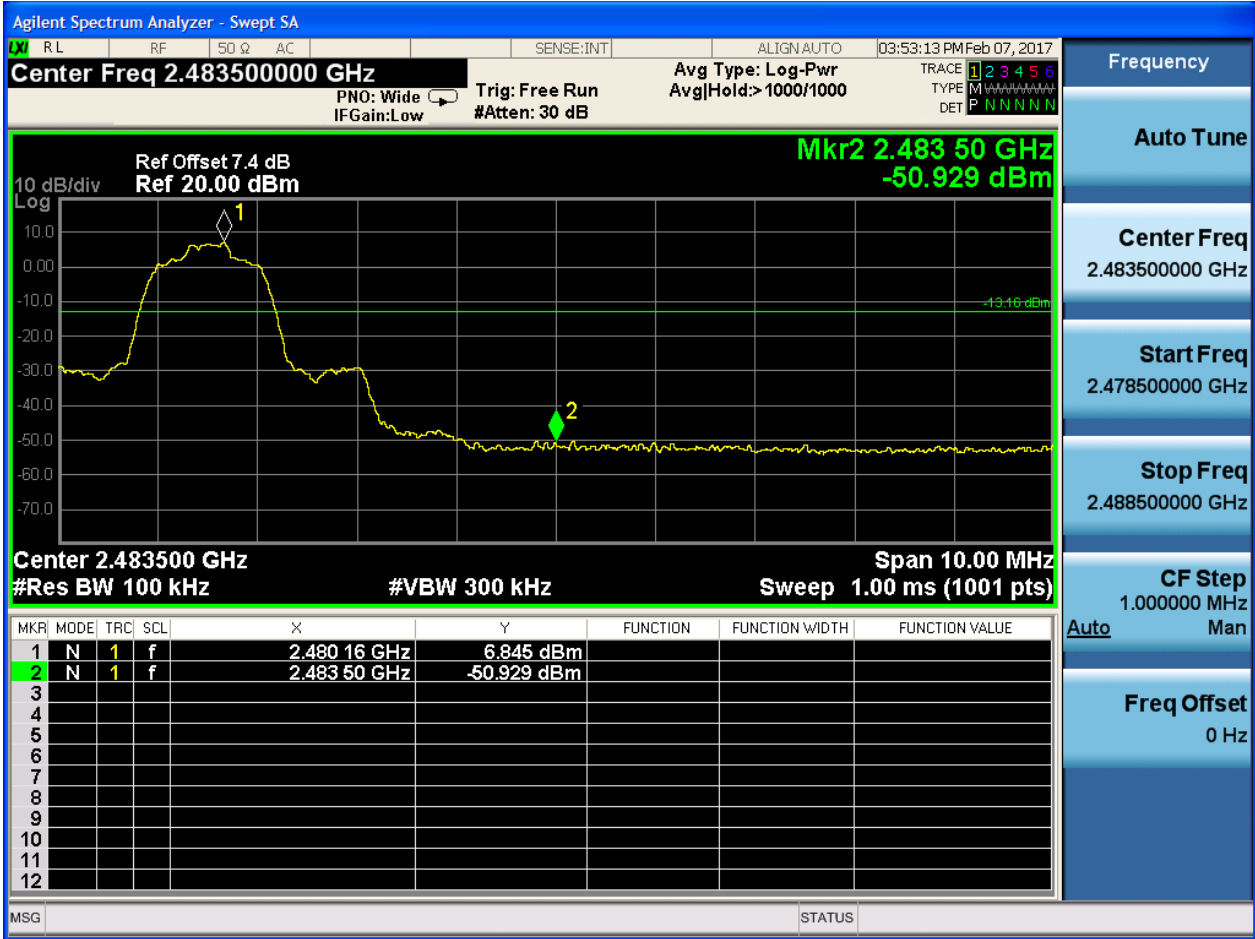
With hopping





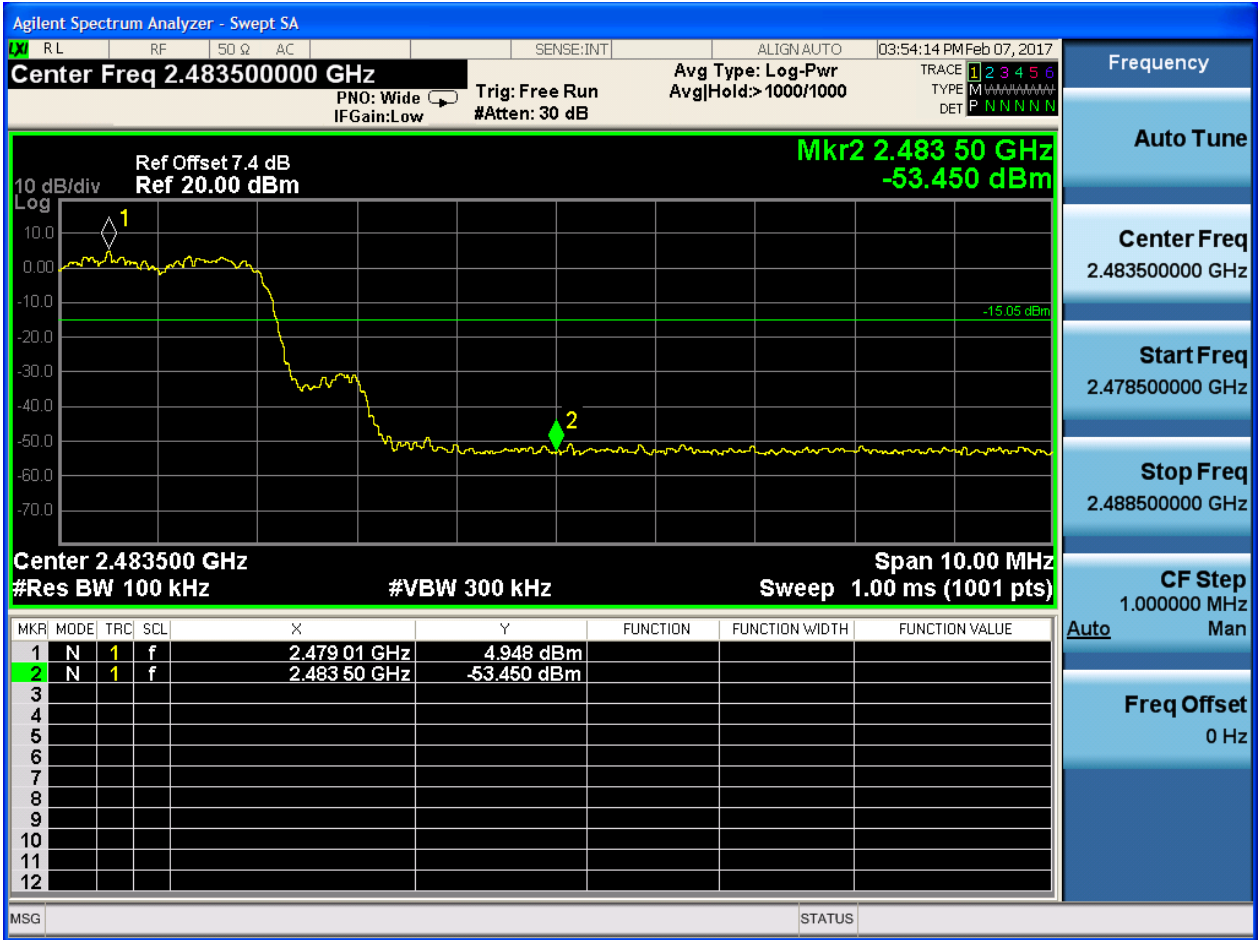
2.4 TM2_2DH5_Ch78

No hopping





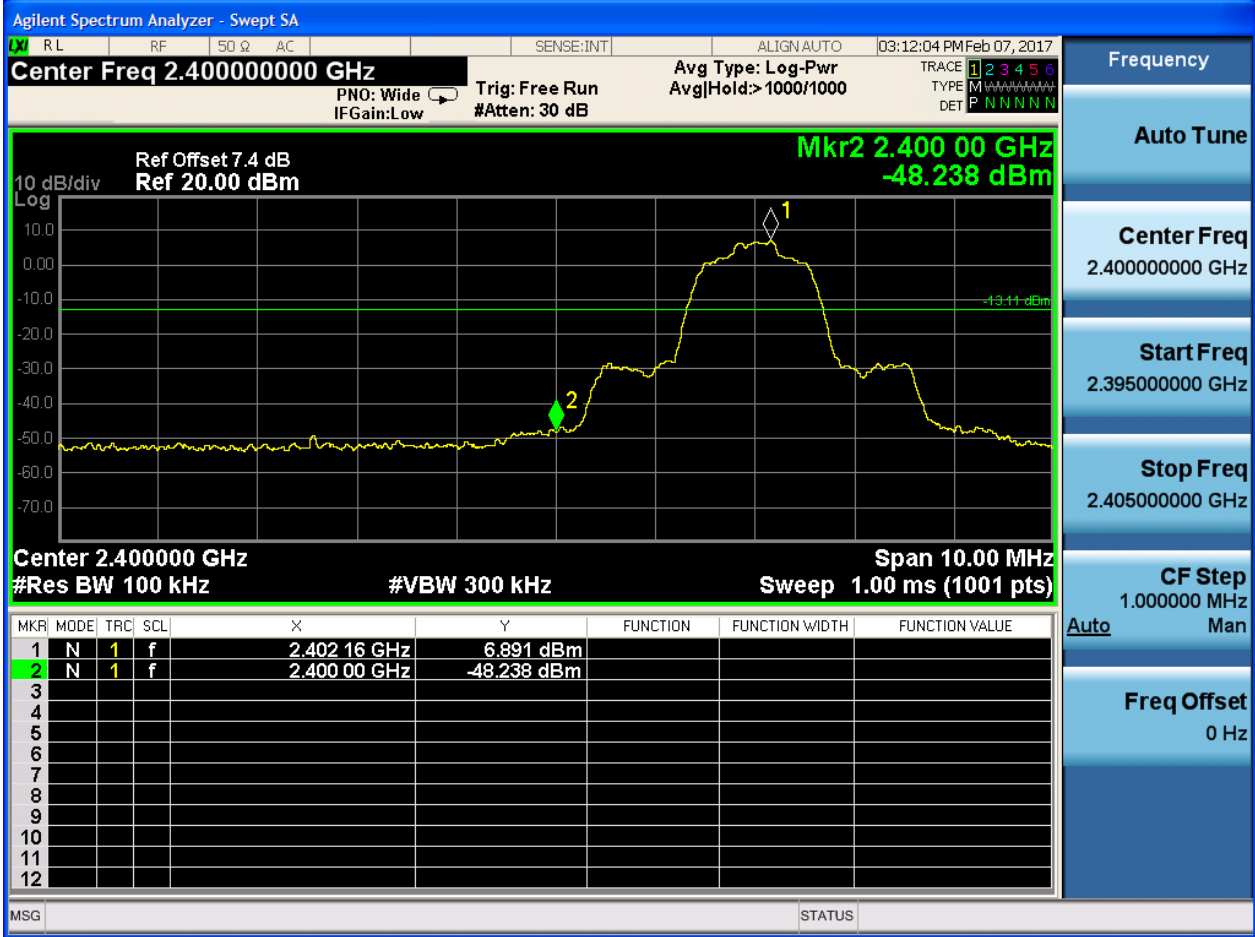
With hopping





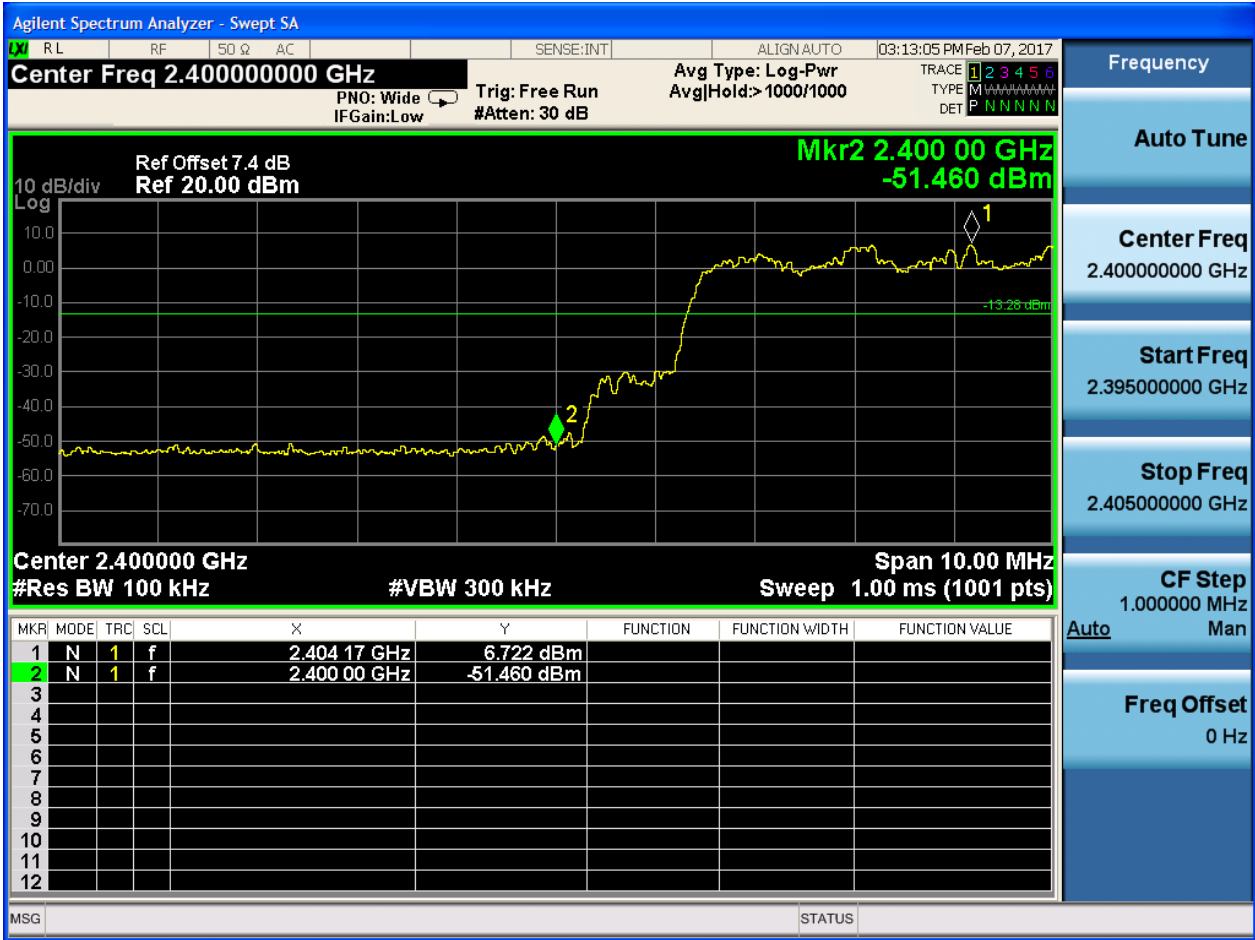
2.5 TM3_3DH5_Ch0

No hopping





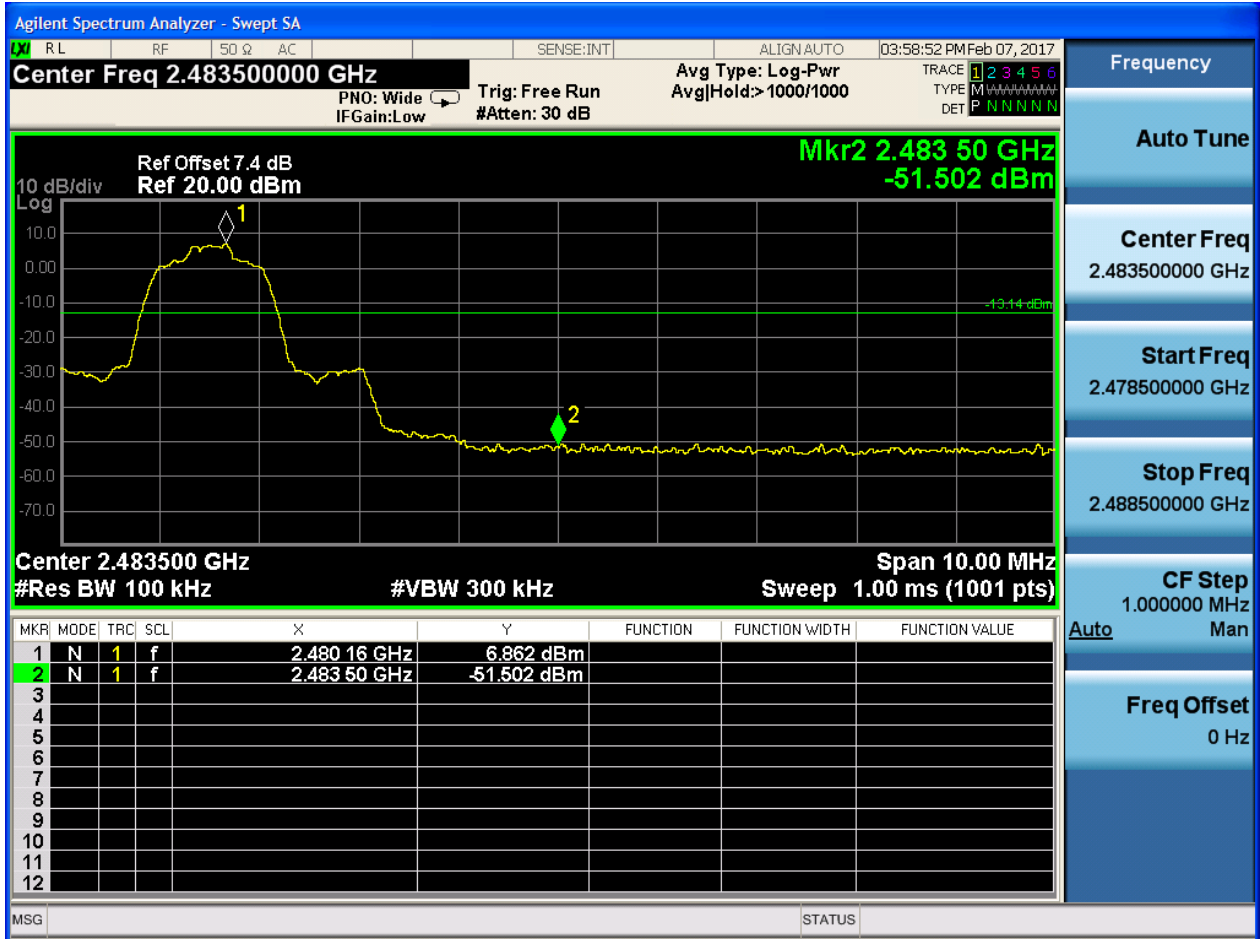
With hopping





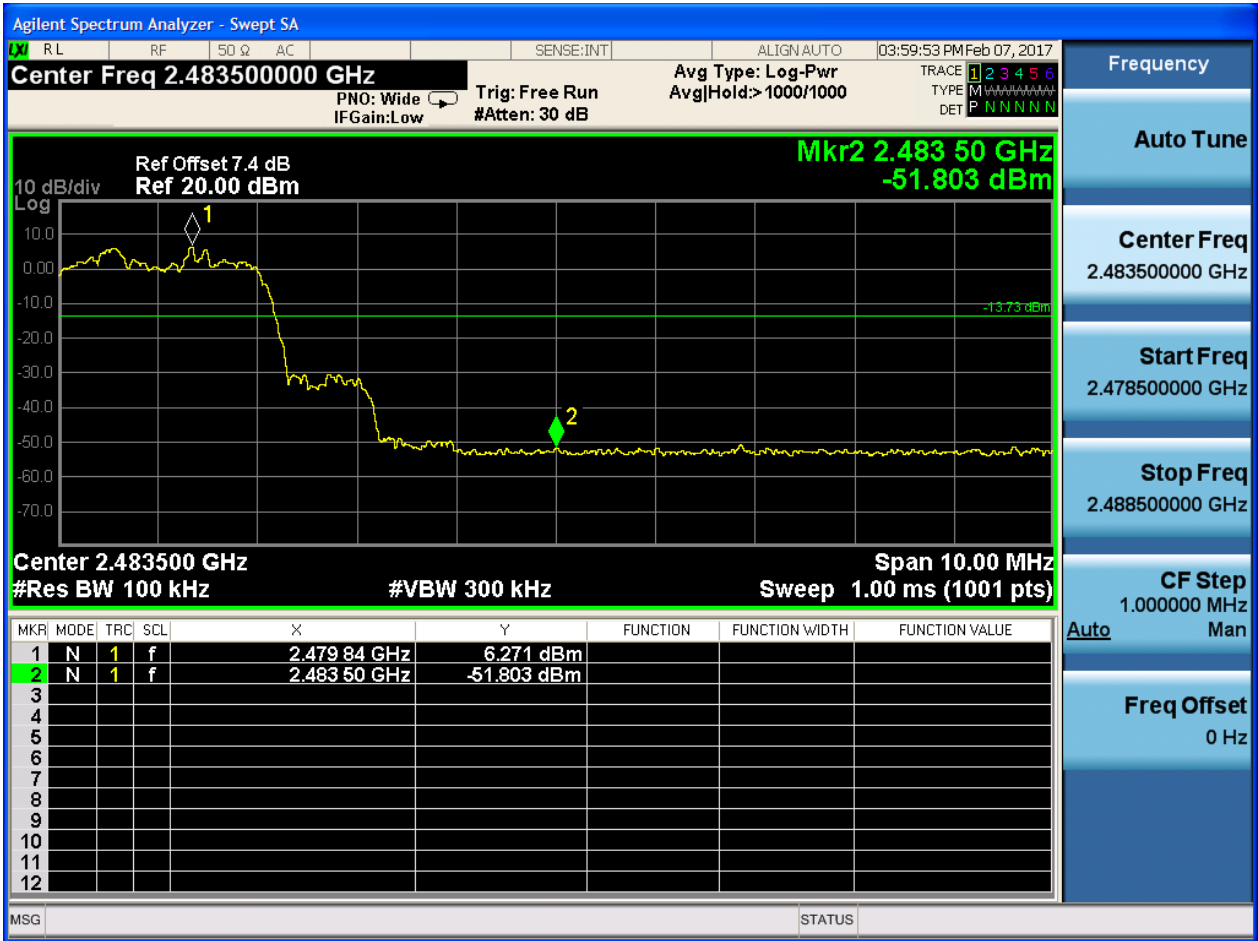
2.6 TM3_3DH5_Ch78

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”.

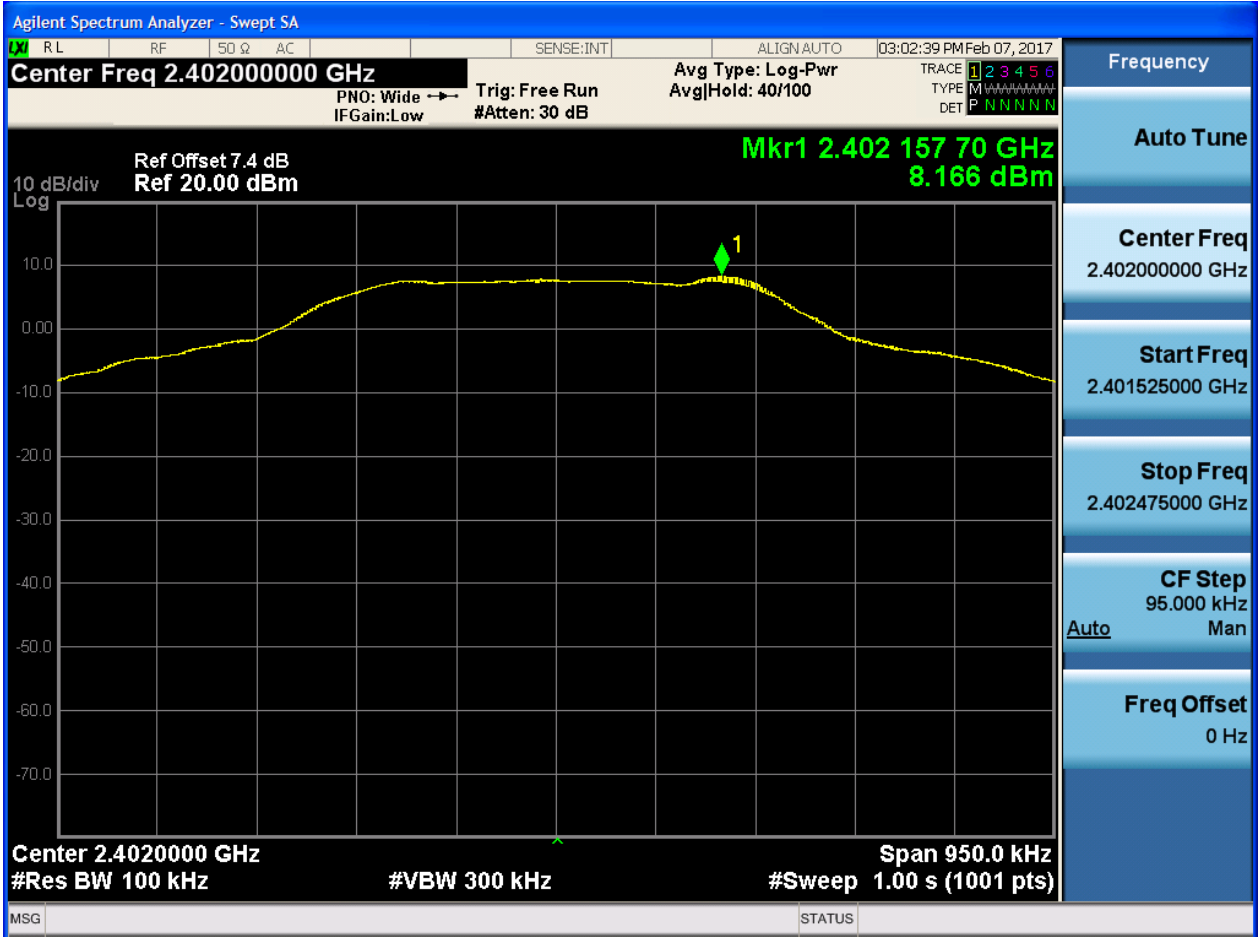
EUT Conf.	Pref [dBm/100 kHz]	Puw [dBm/100 kHz]	Verdict
TM1_DH5_Ch0	8.166	< Limit	Pass
TM1_DH5_Ch39	8.028	< Limit	Pass
TM1_DH5_Ch78	8.177	< Limit	Pass
TM2_2DH5_Ch0	6.79	< Limit	Pass
TM2_2DH5_Ch39	6.735	< Limit	Pass
TM2_2DH5_Ch78	6.828	< Limit	Pass
TM3_3DH5_Ch0	6.829	< Limit	Pass
TM3_3DH5_Ch39	6.756	< Limit	Pass
TM3_3DH5_Ch78	6.834	< Limit	Pass



2 Test Plot

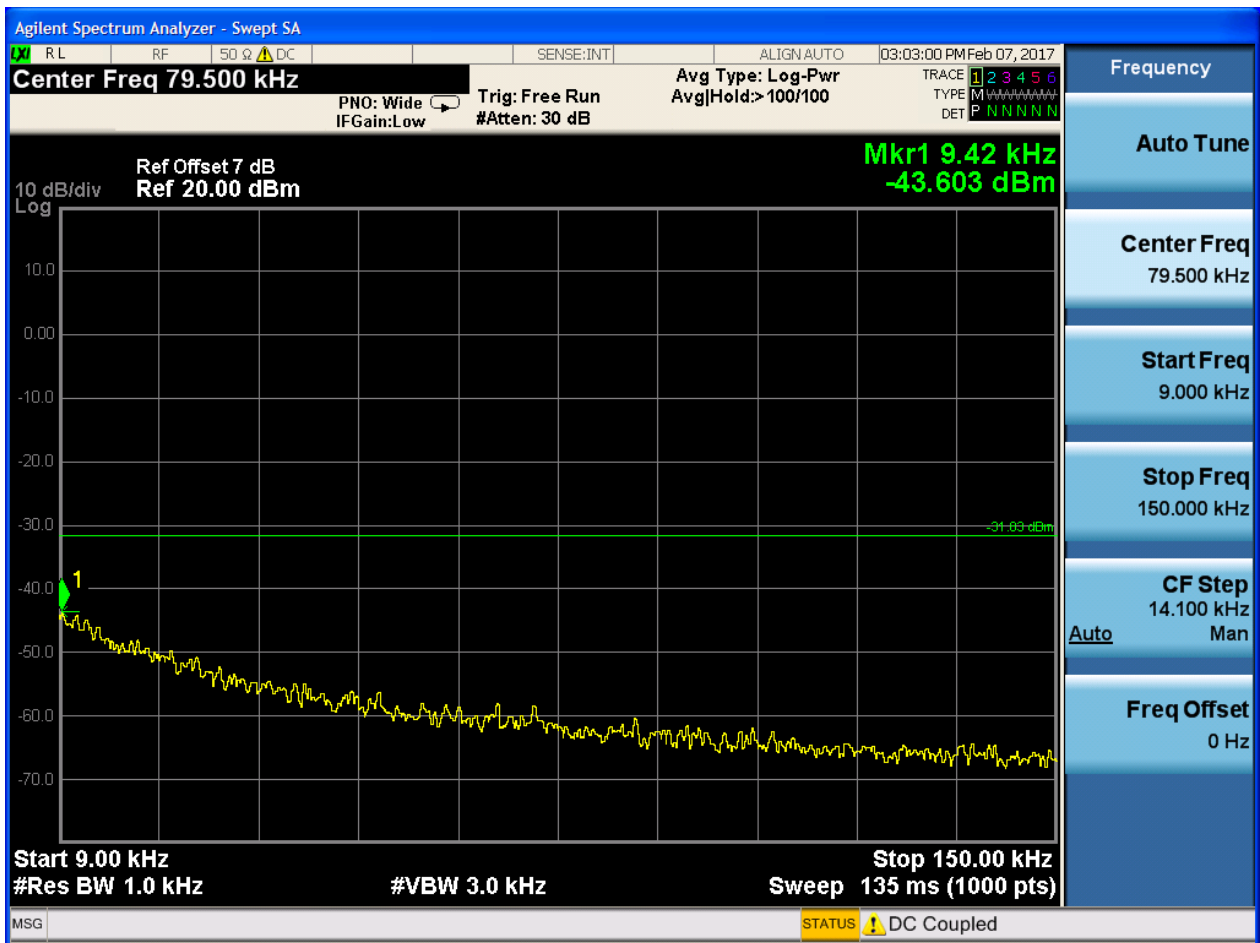
2.1 TM1_DH5_Ch0

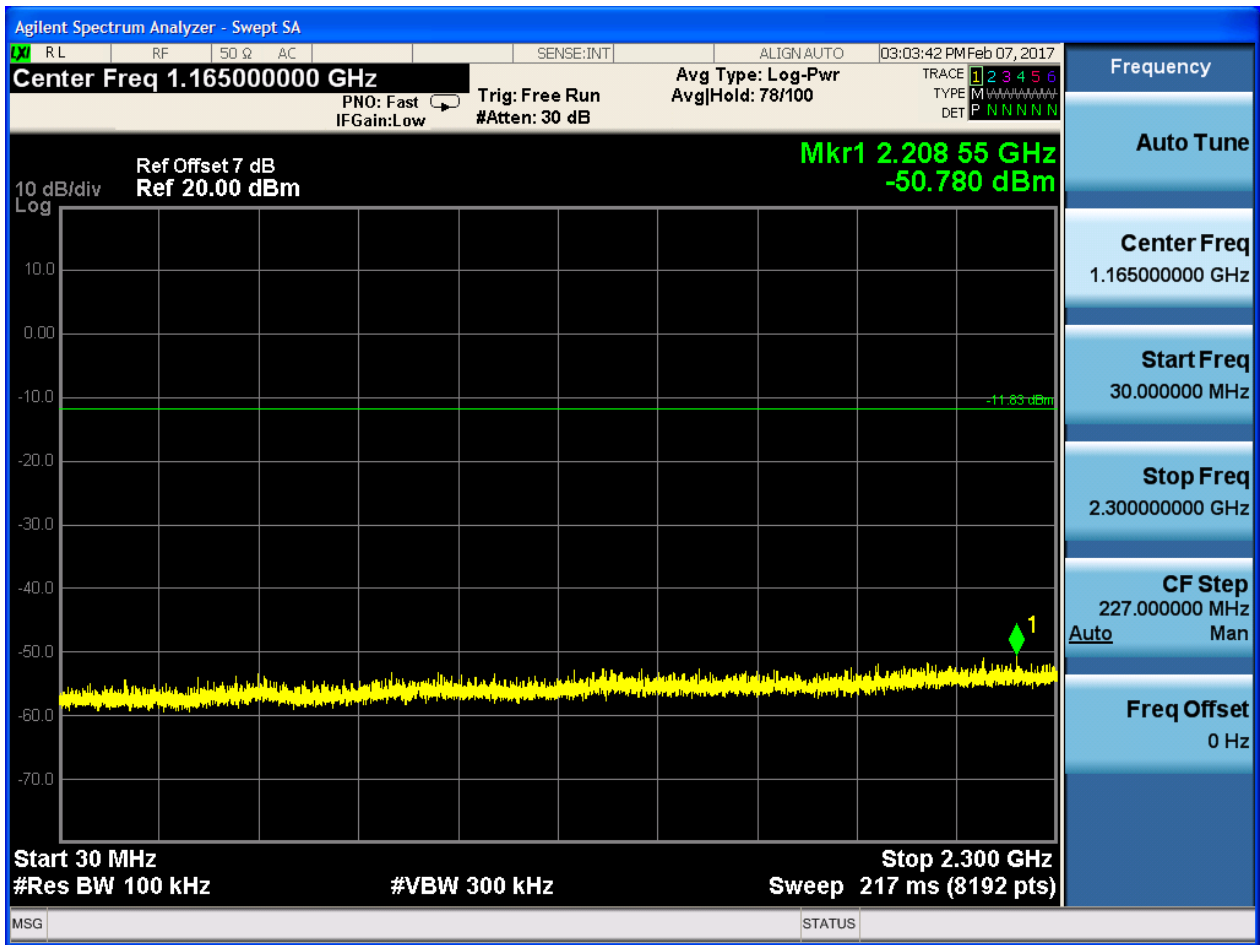
2.1.1 Pref

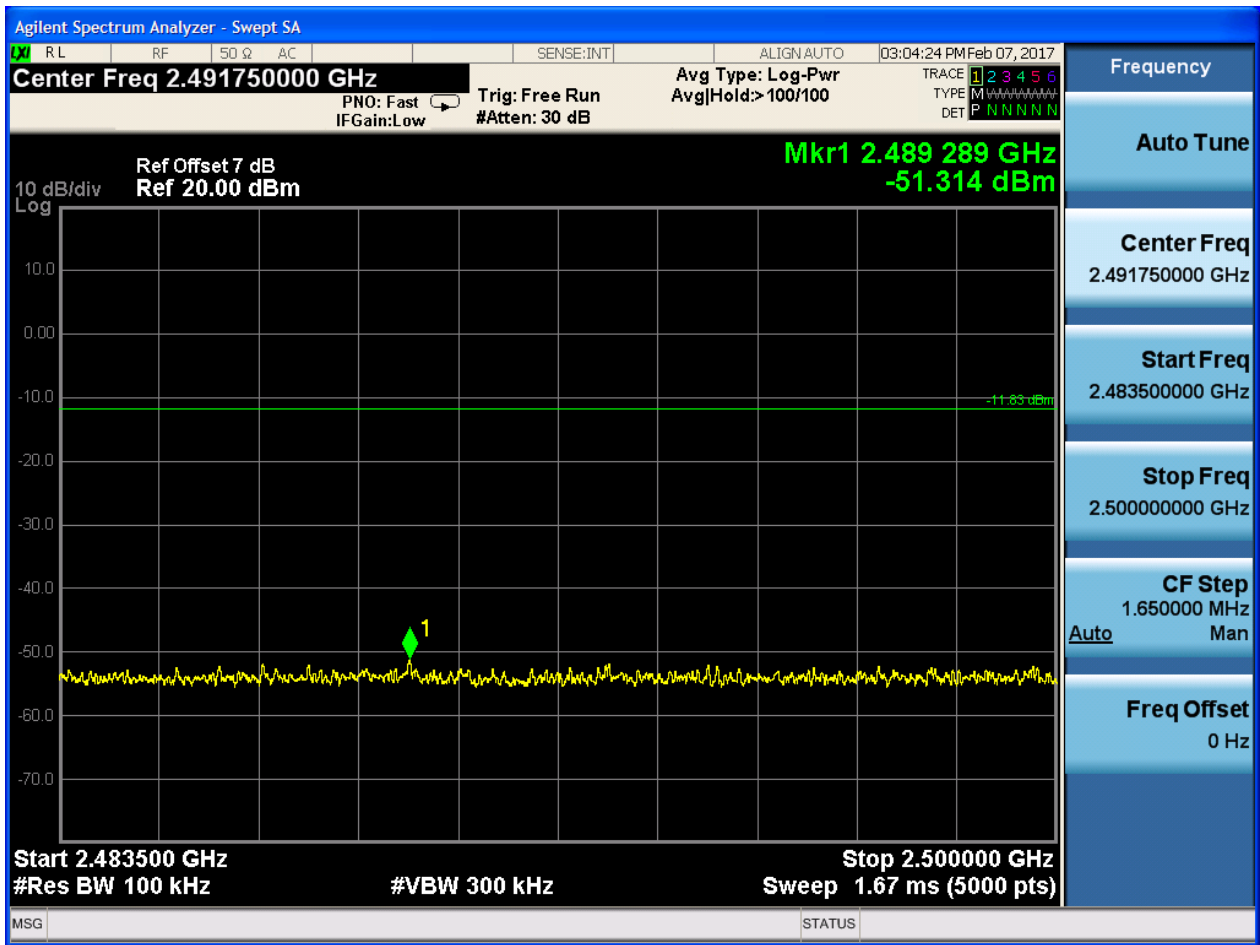




2.1.2 Puw





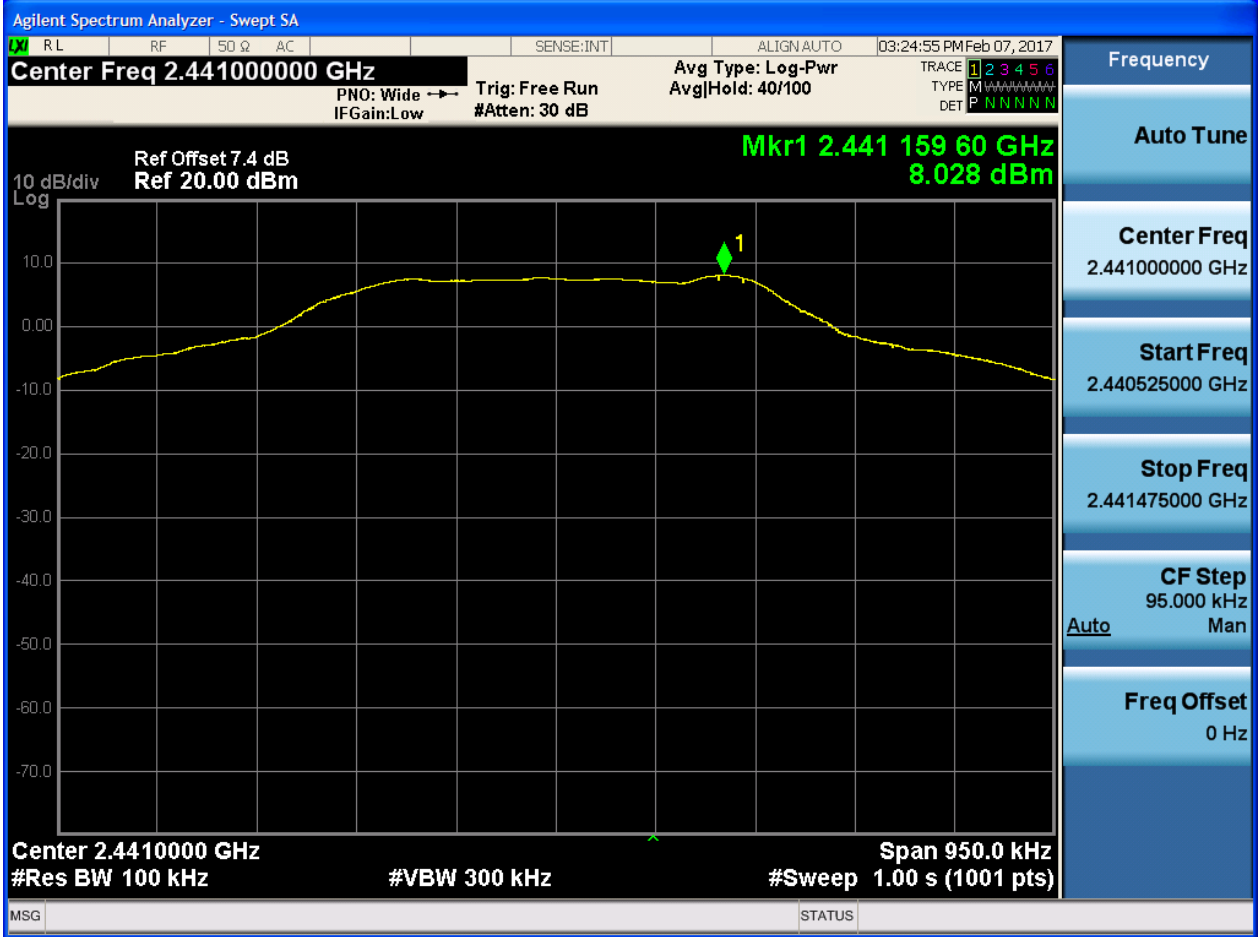






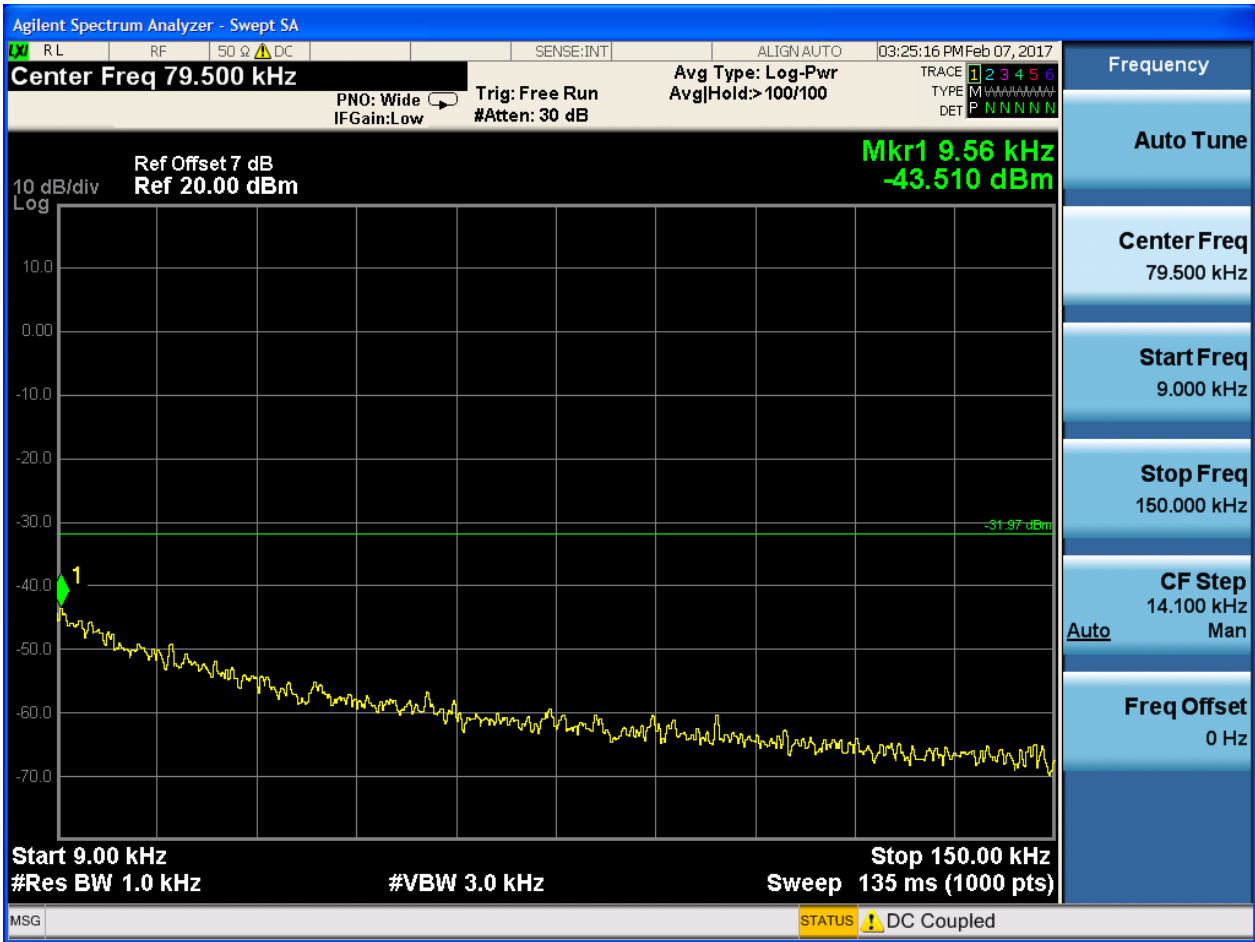
2.2 TM1_DH5_Ch39

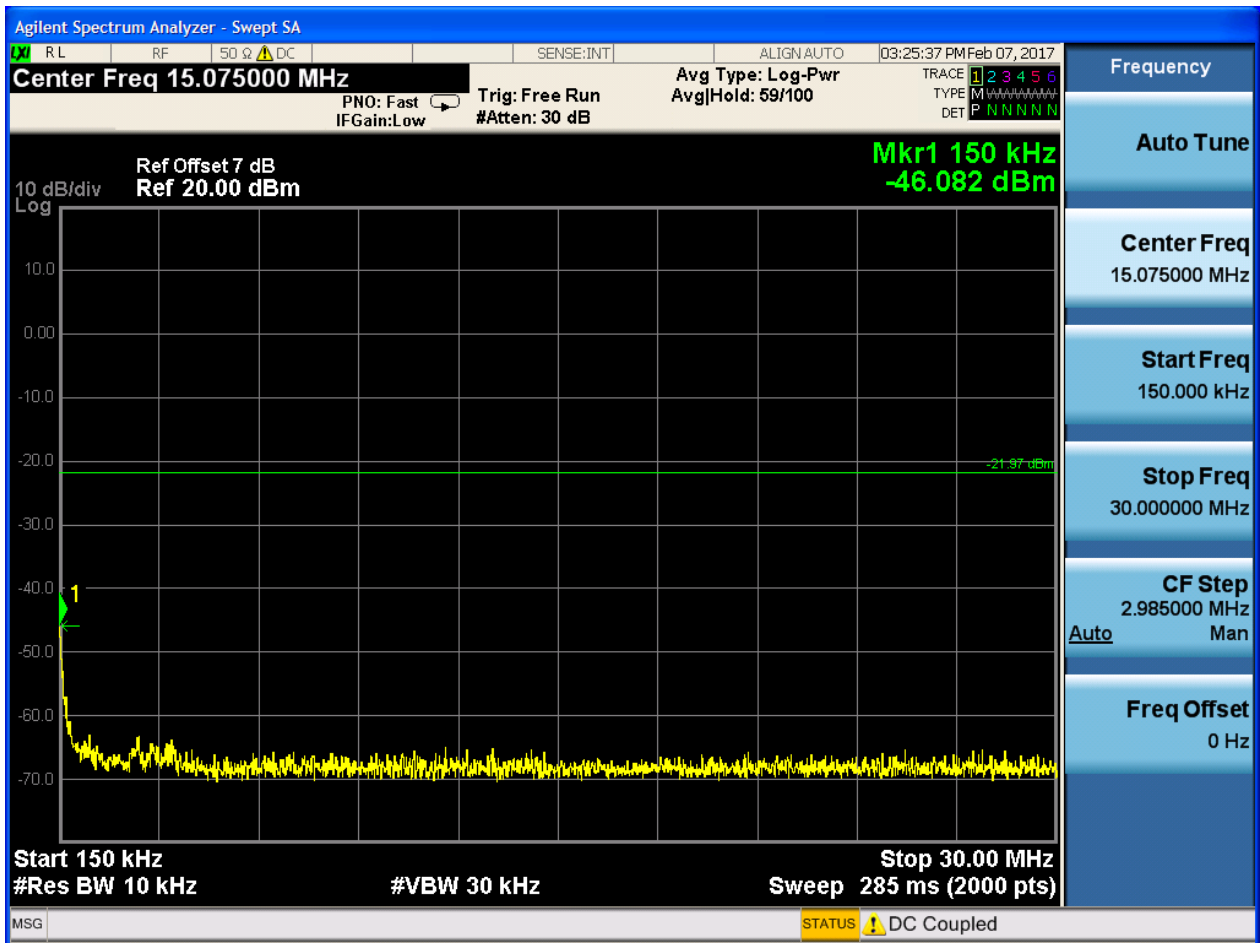
2.2.1 Pref

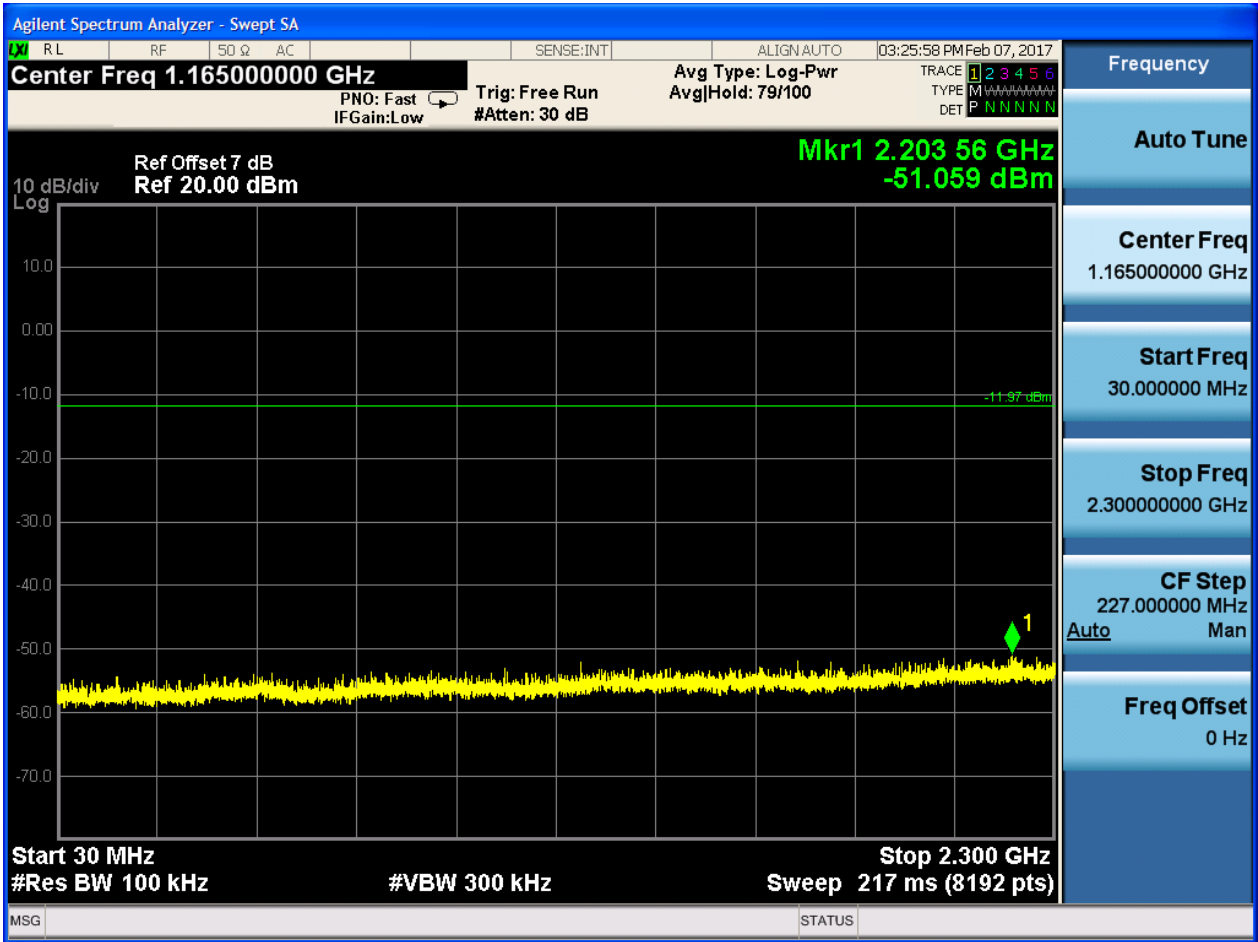


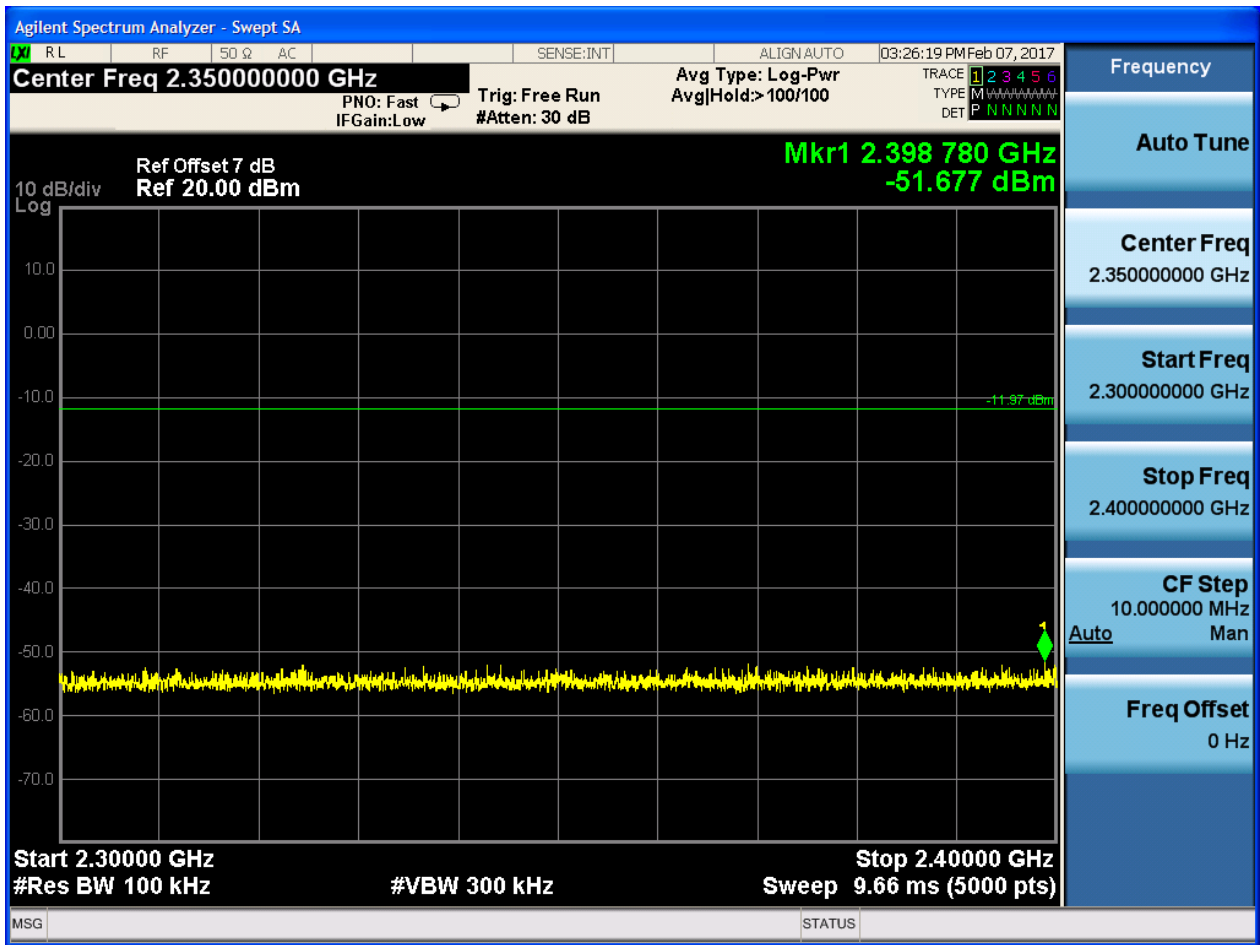


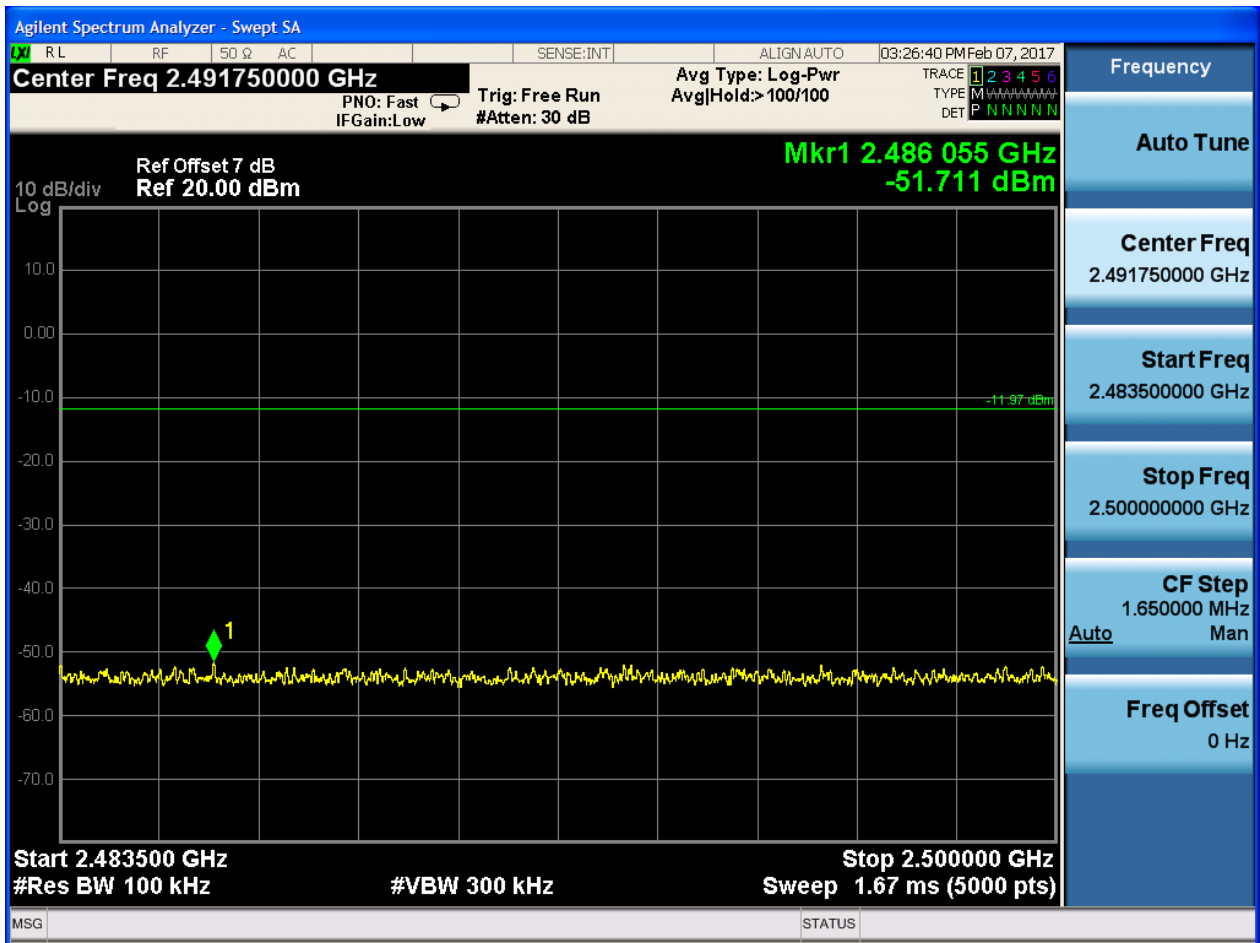
2.2.2 Puw













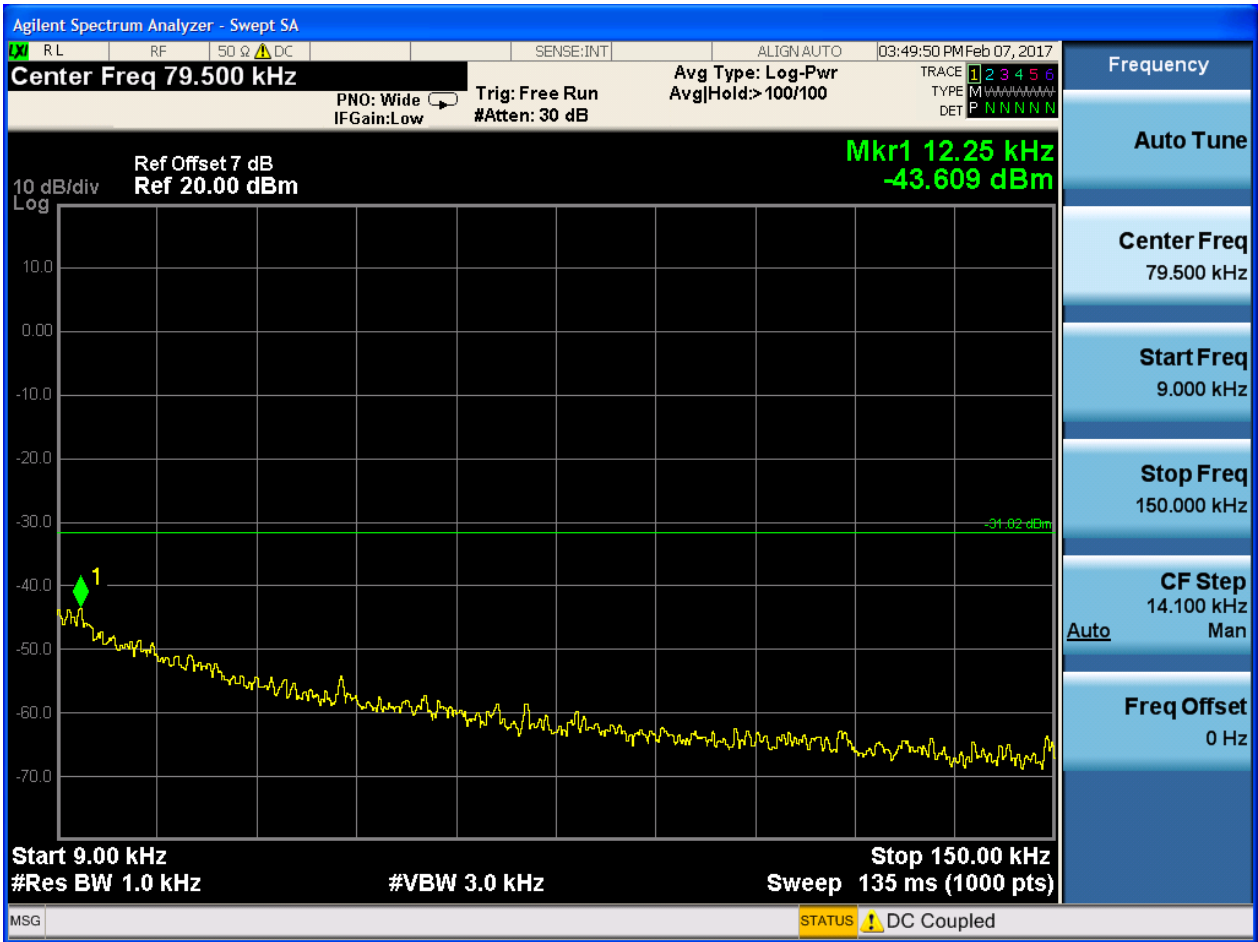
2.3 TM1_DH5_Ch78

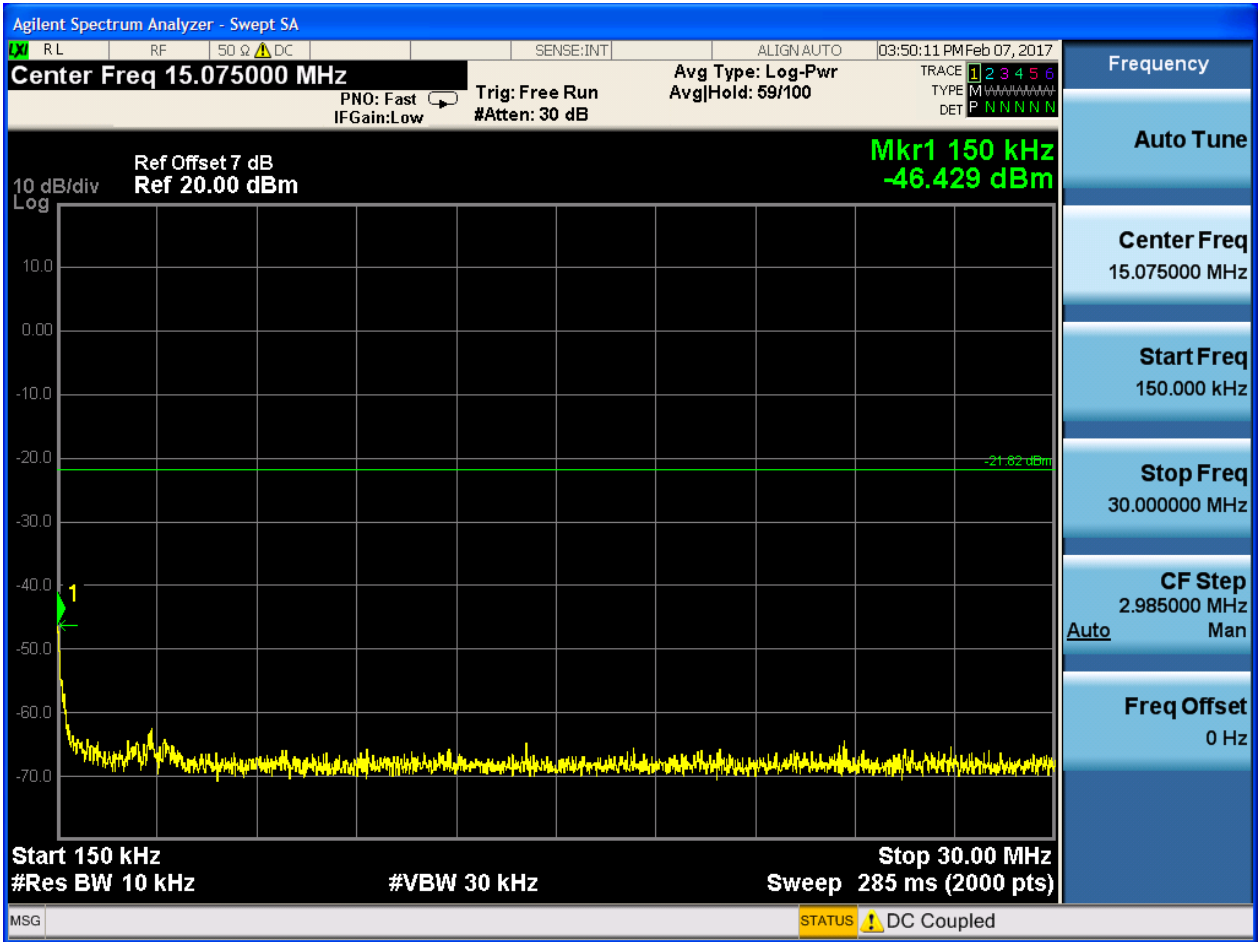
2.3.1 Pref

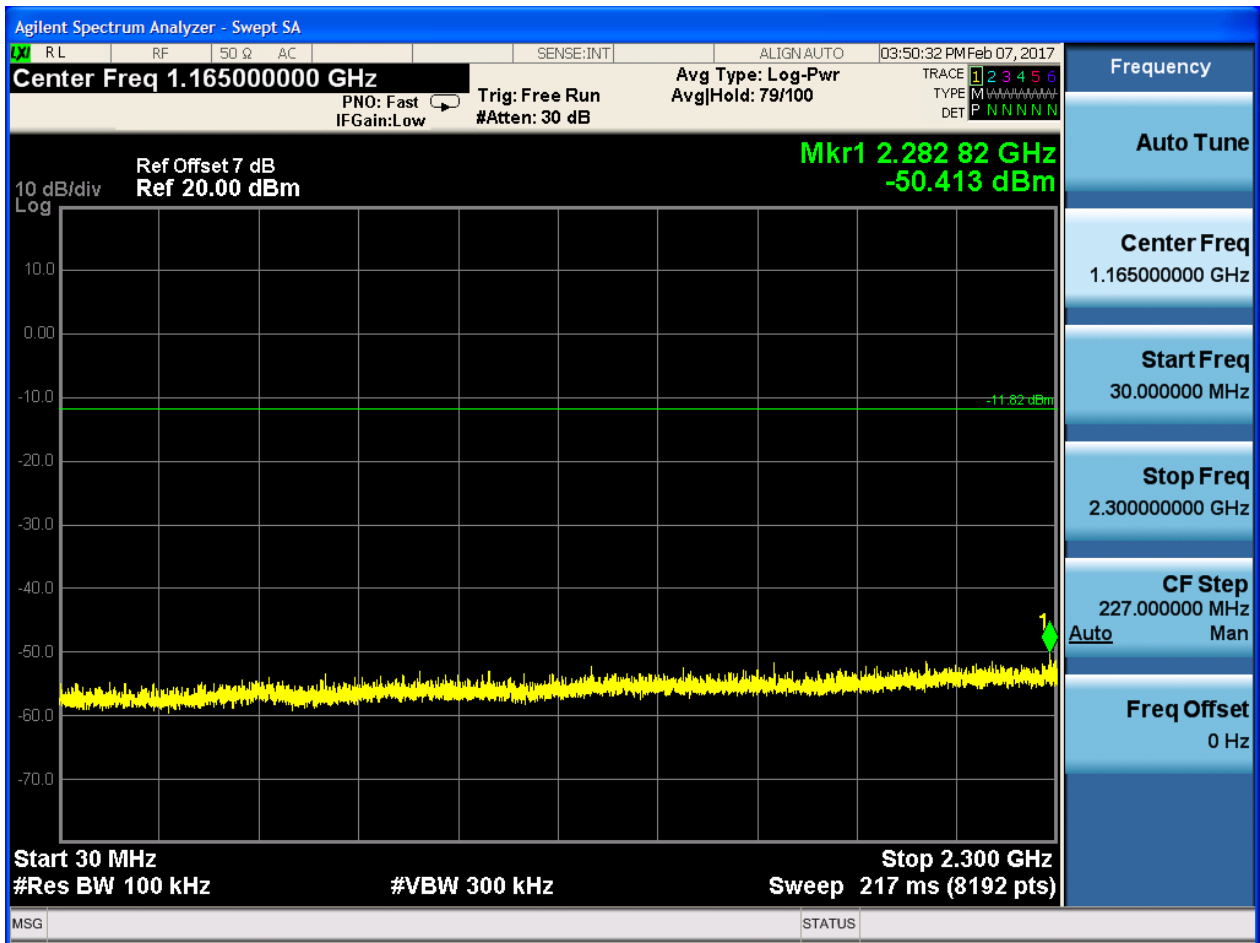


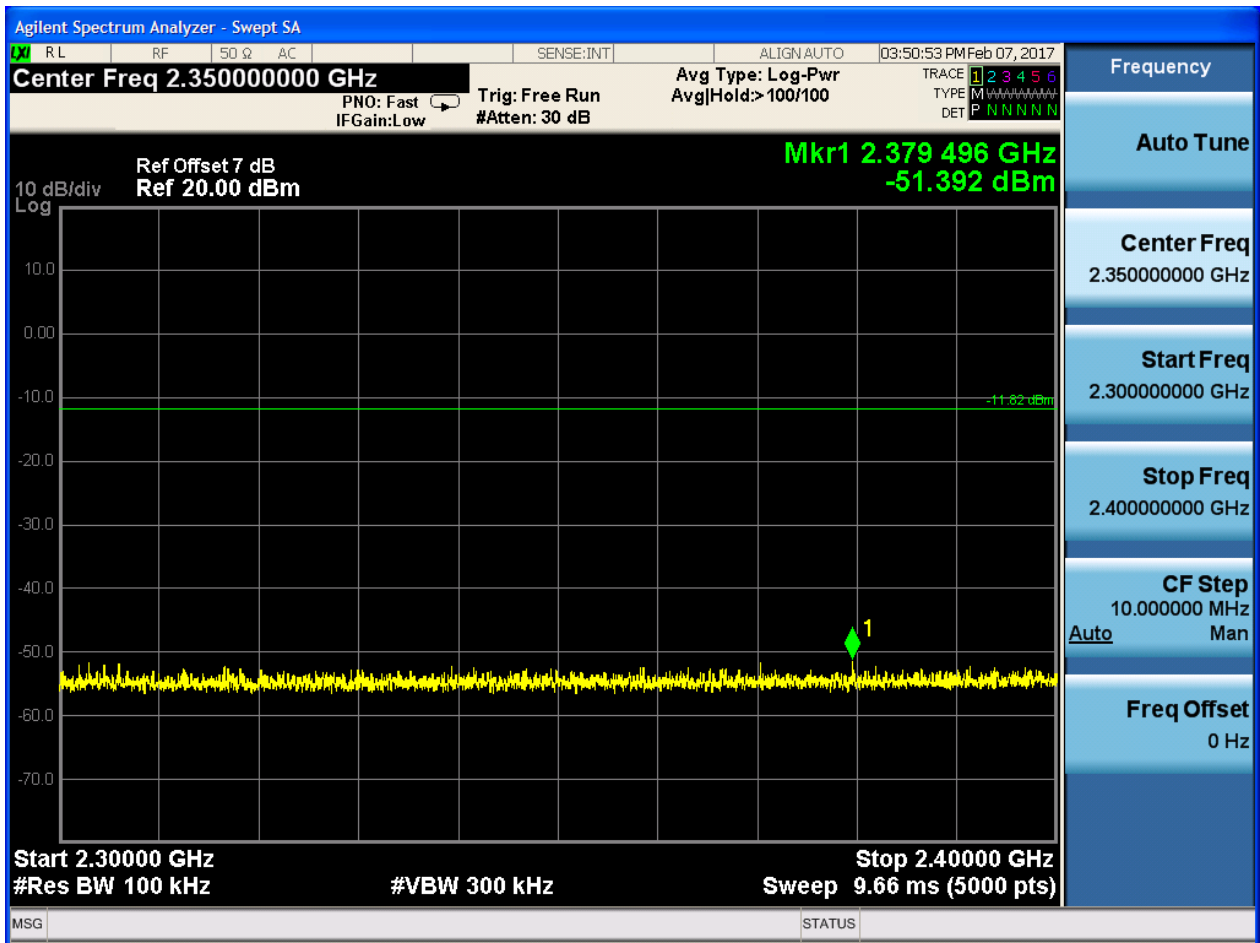


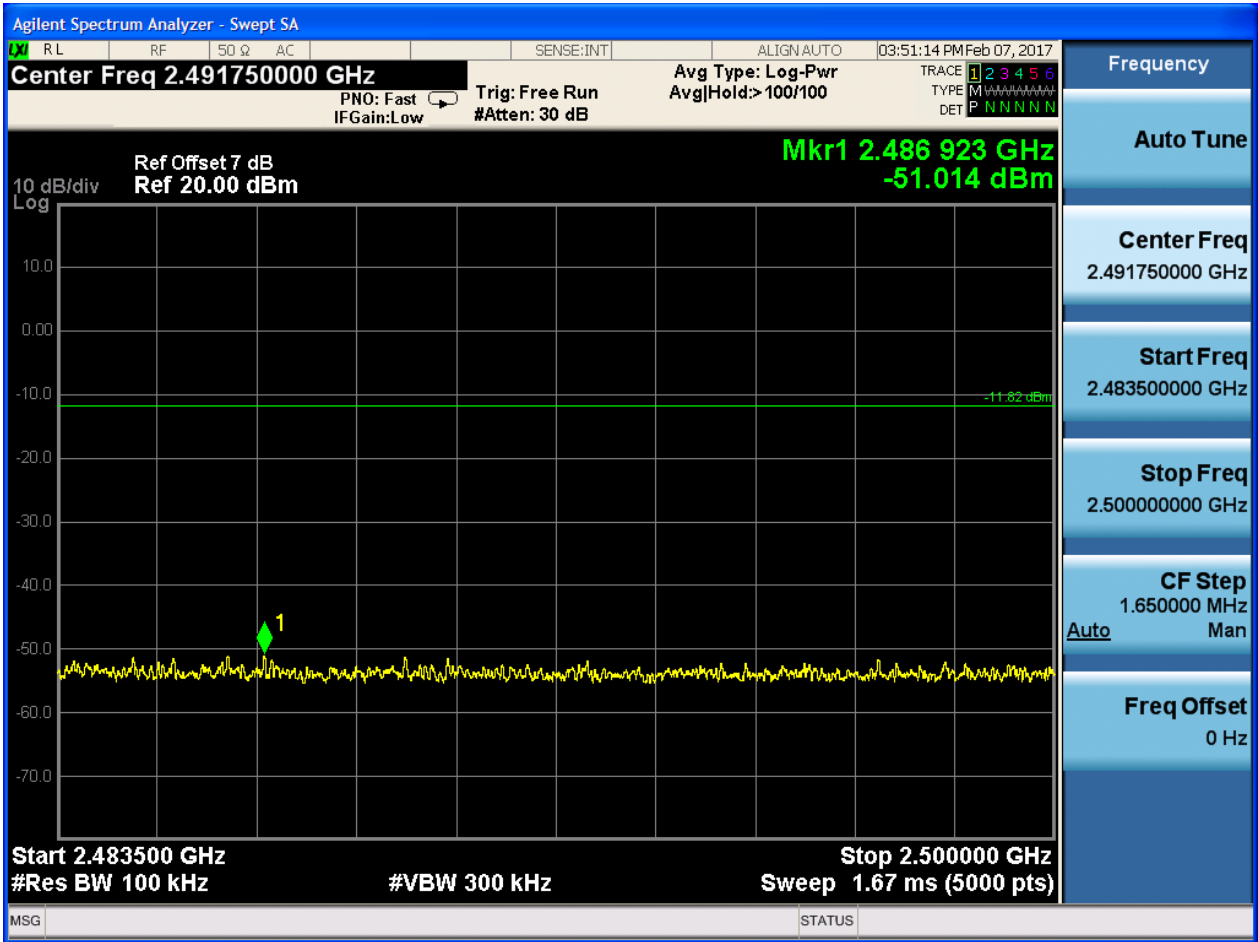
2.3.2 Puw

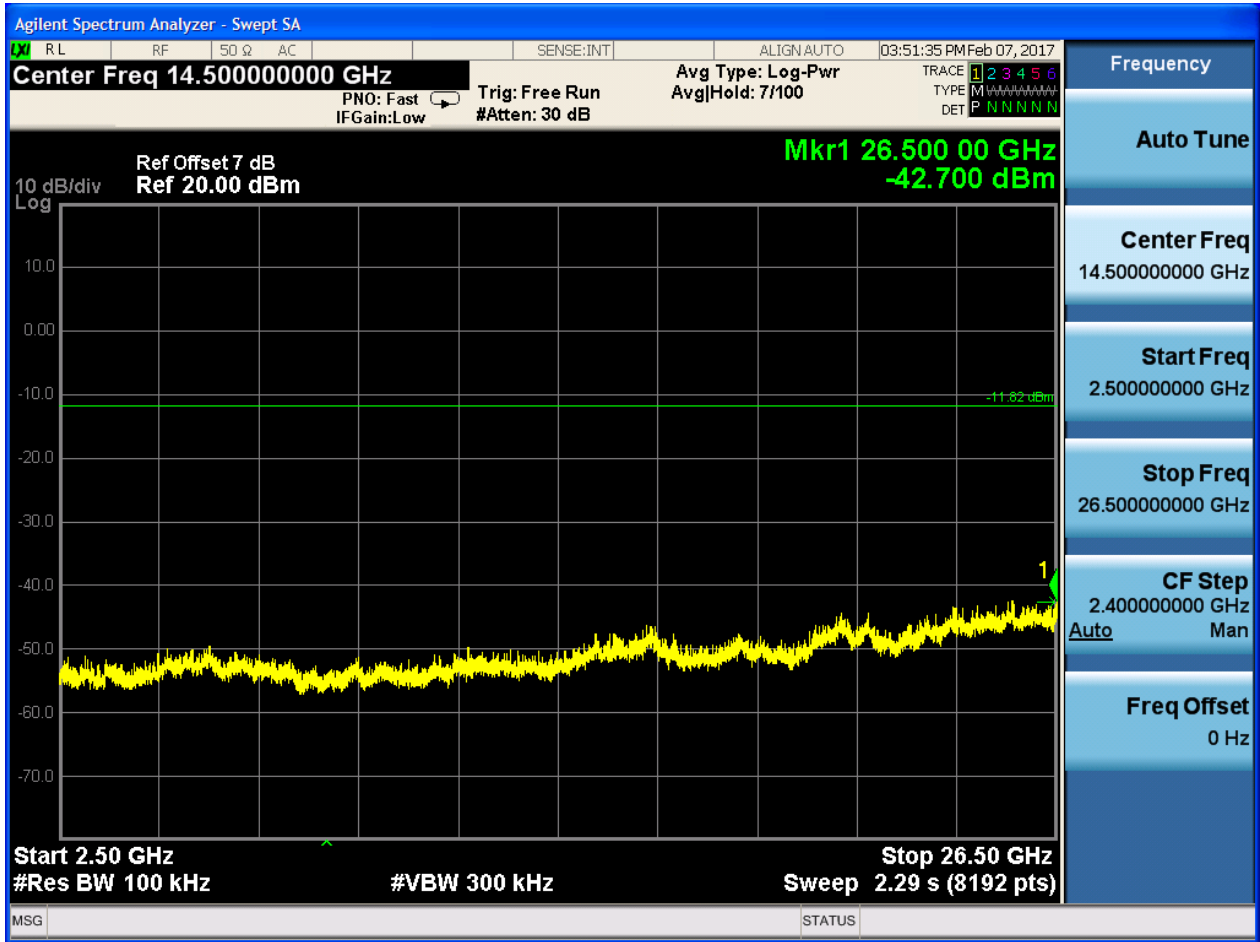








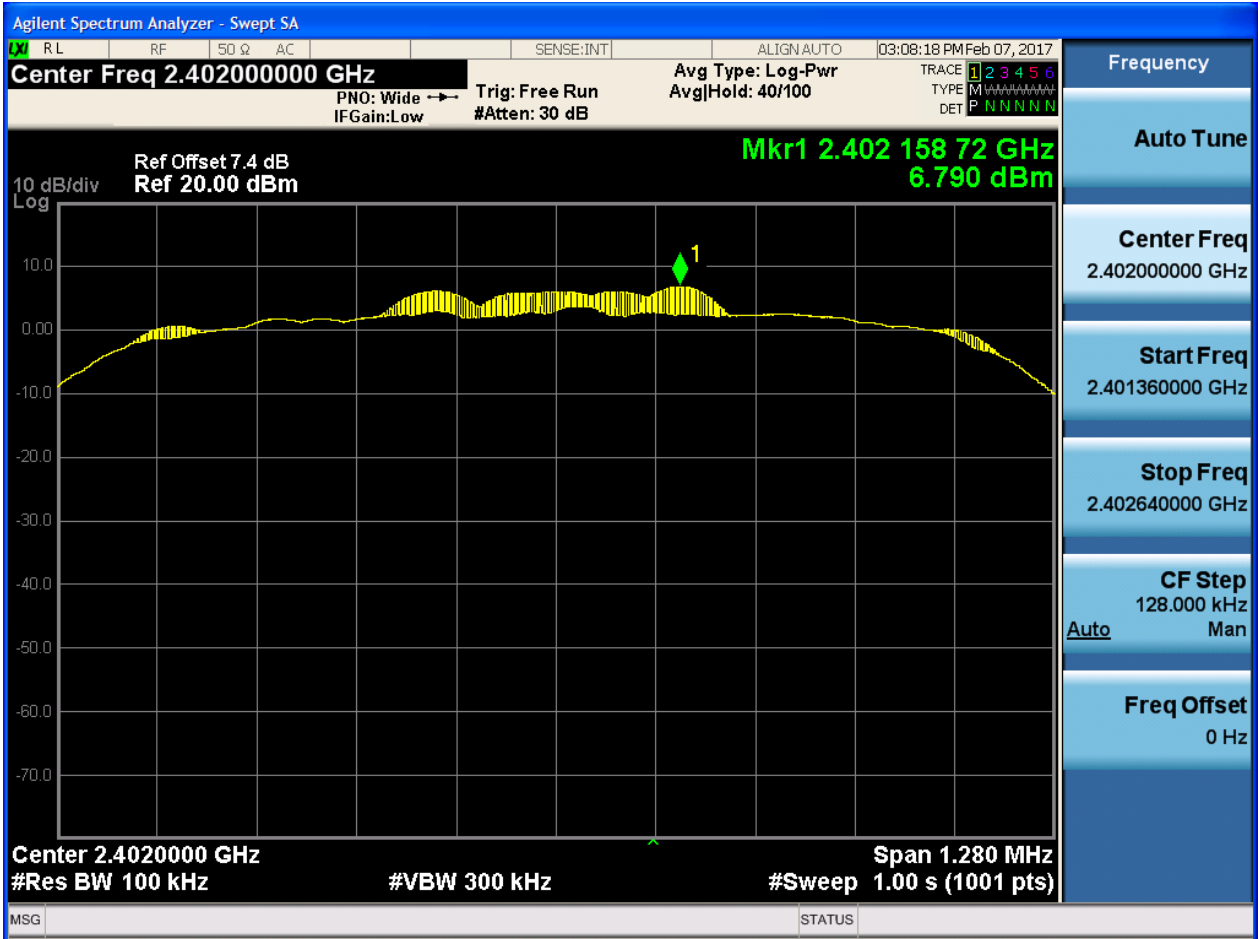






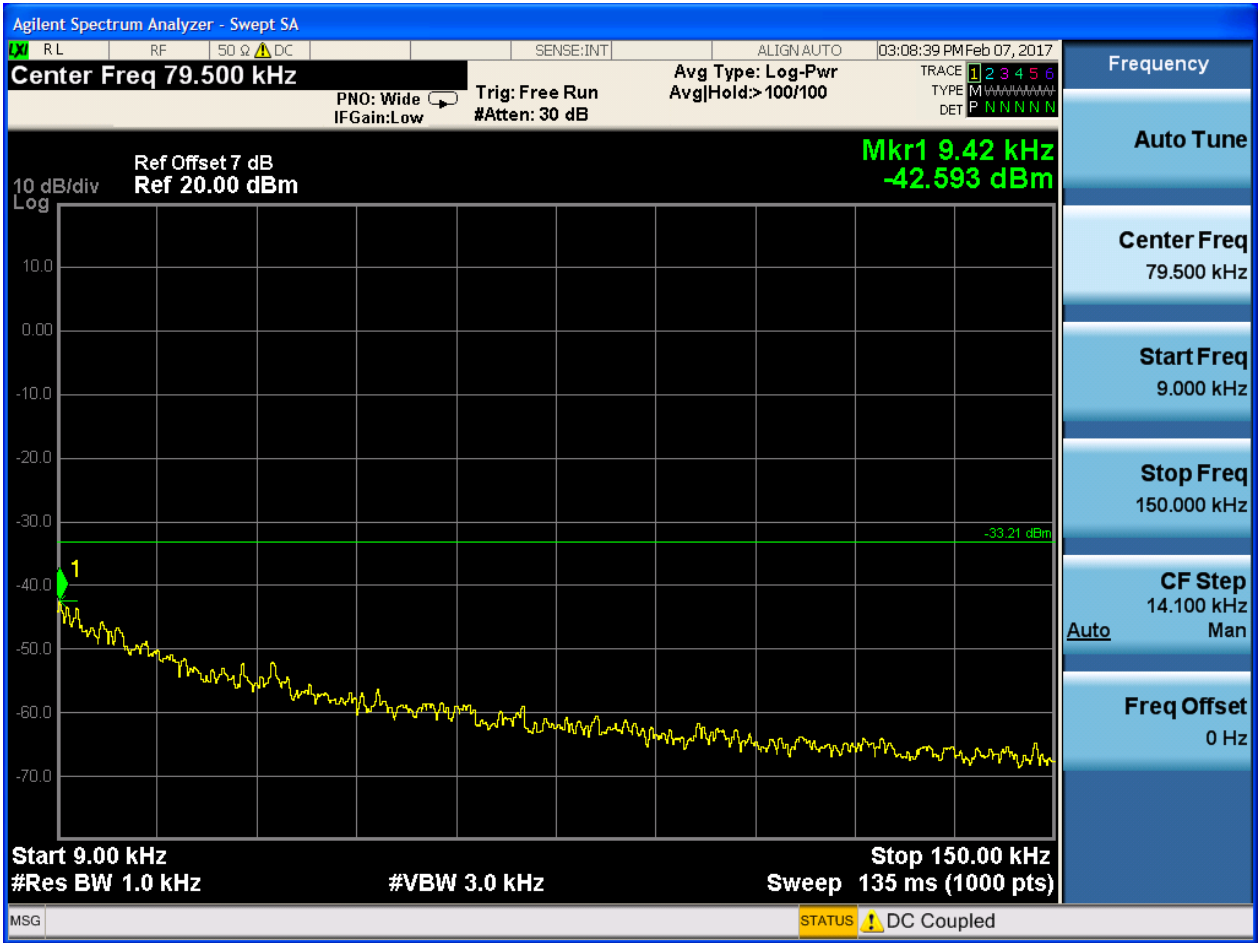
2.4 TM2_2DH5_Ch0

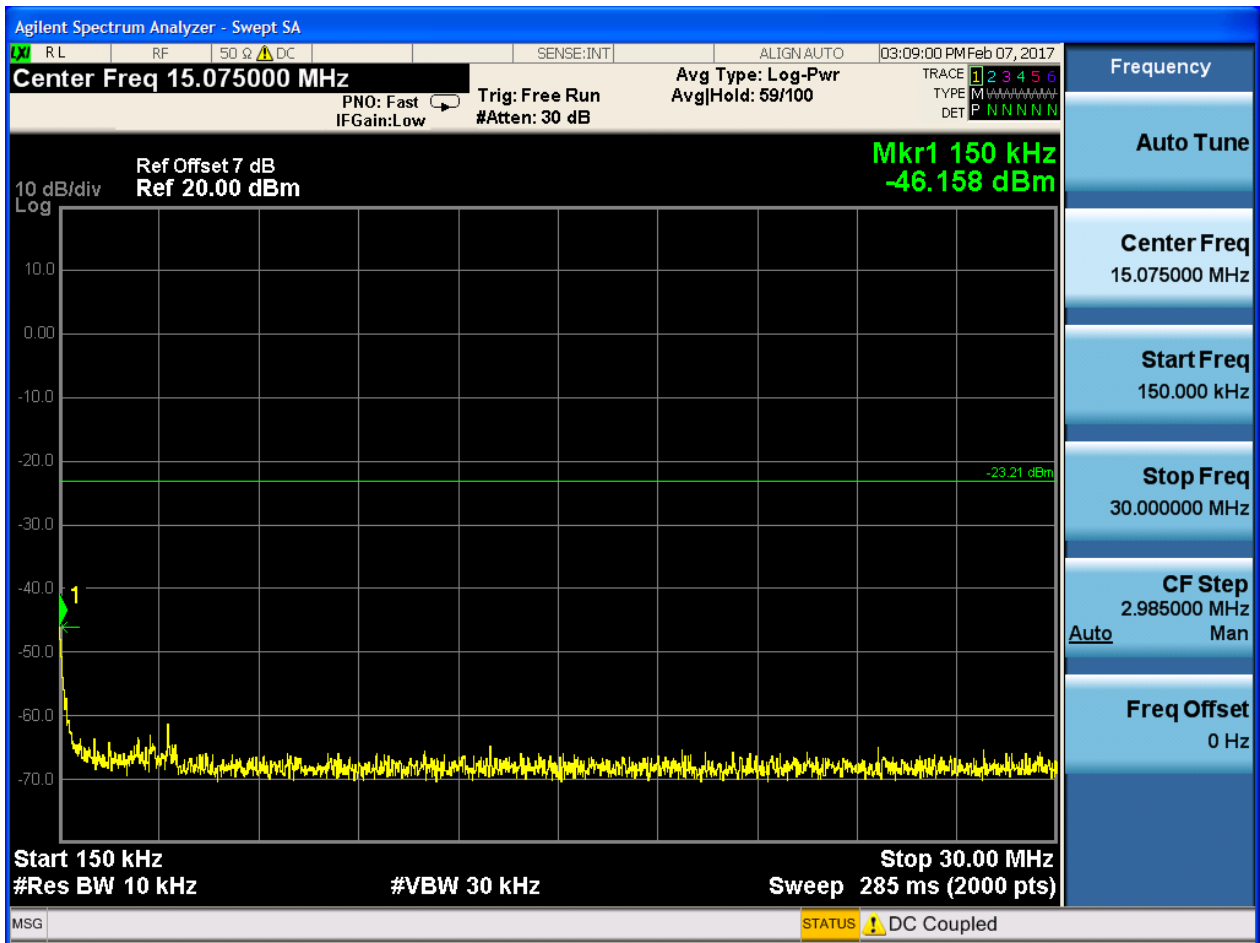
2.4.1 Pref

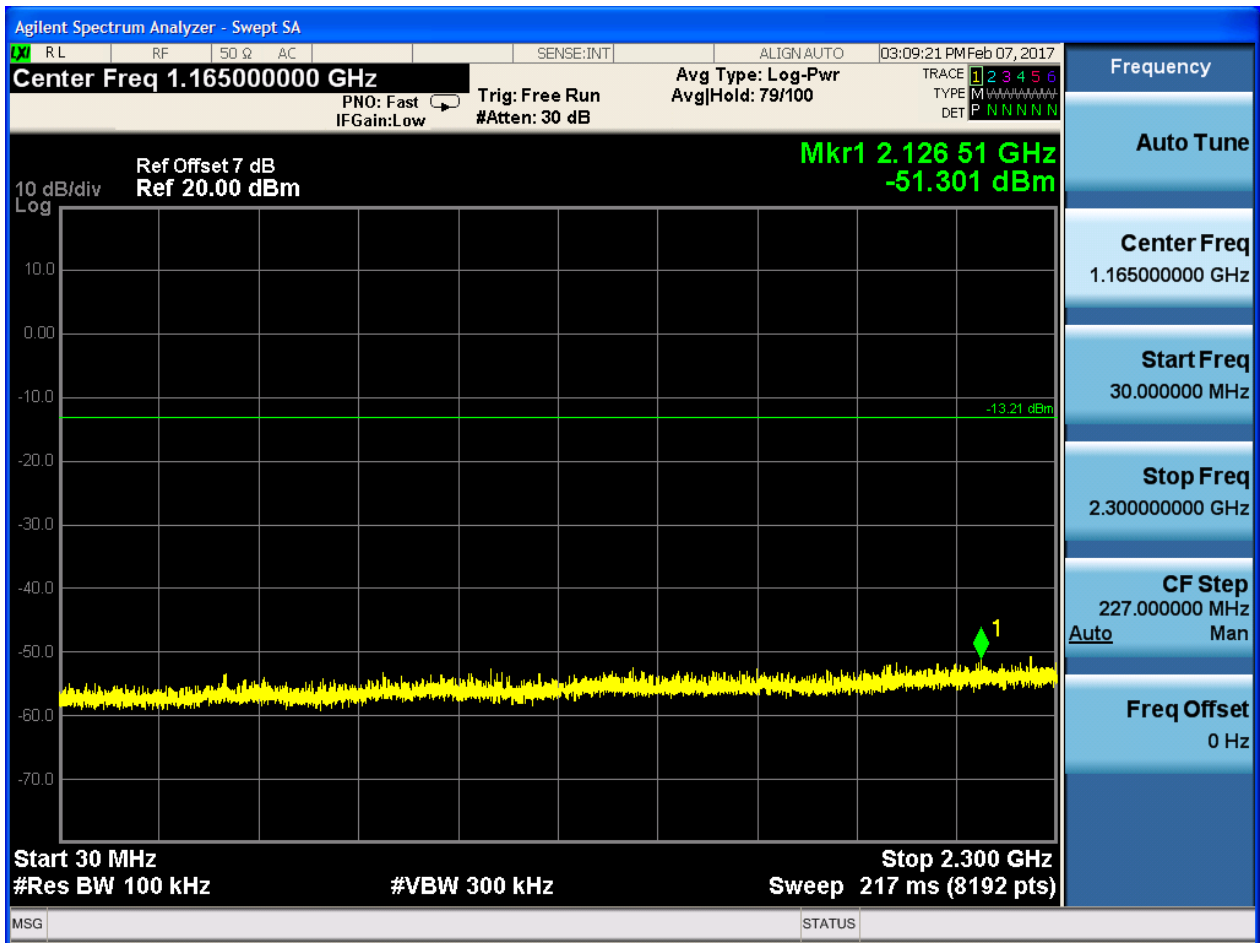


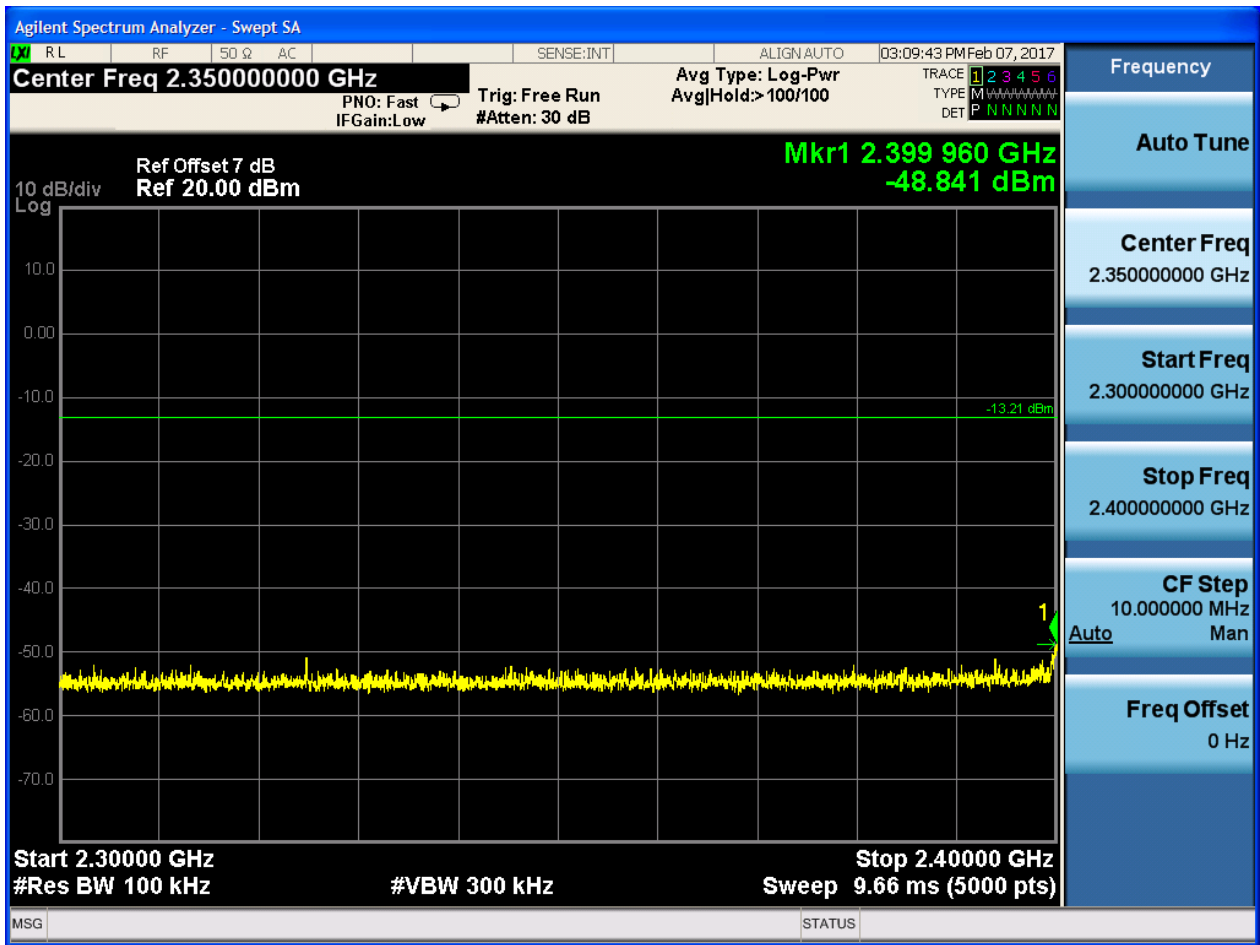


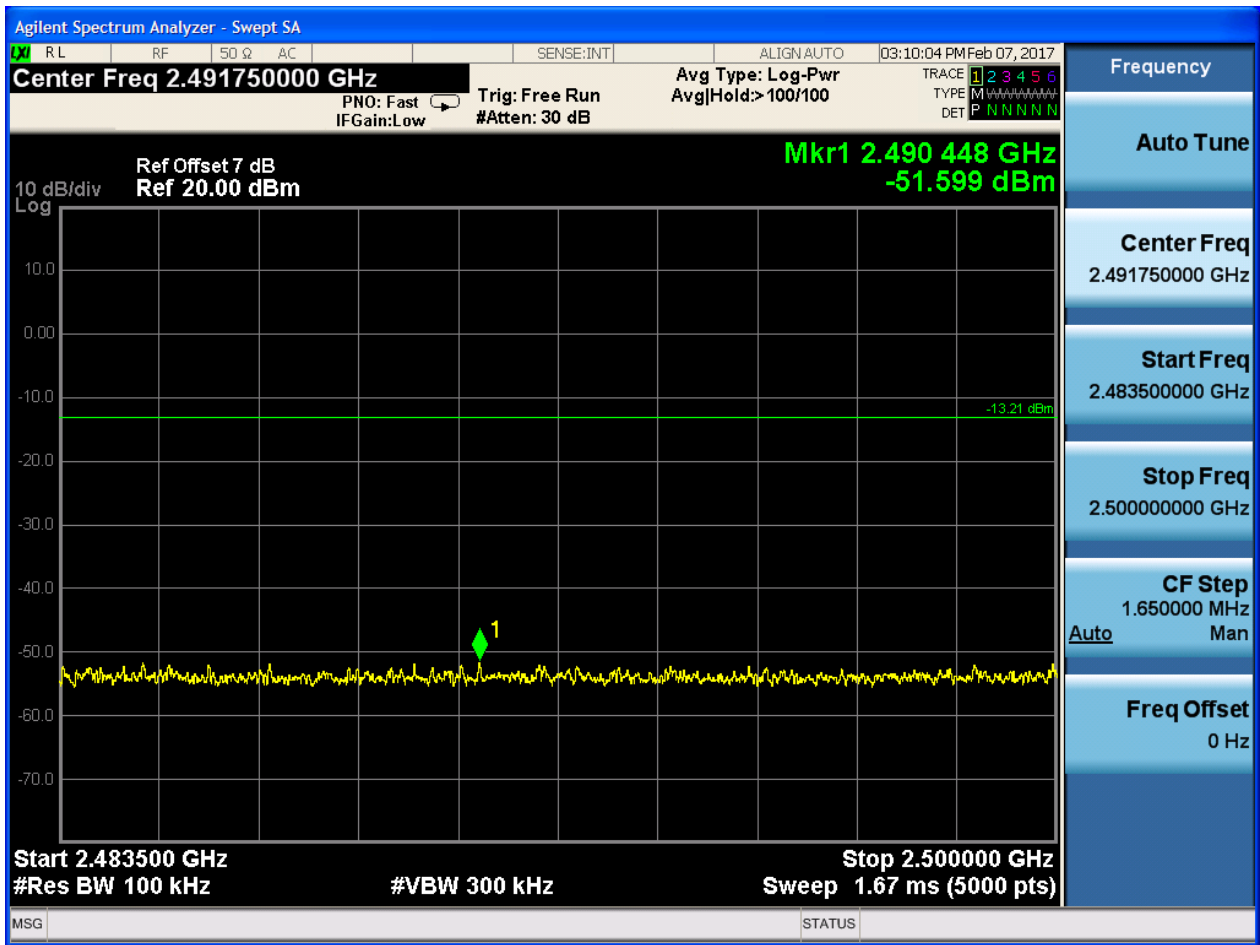
2.4.2 Puw

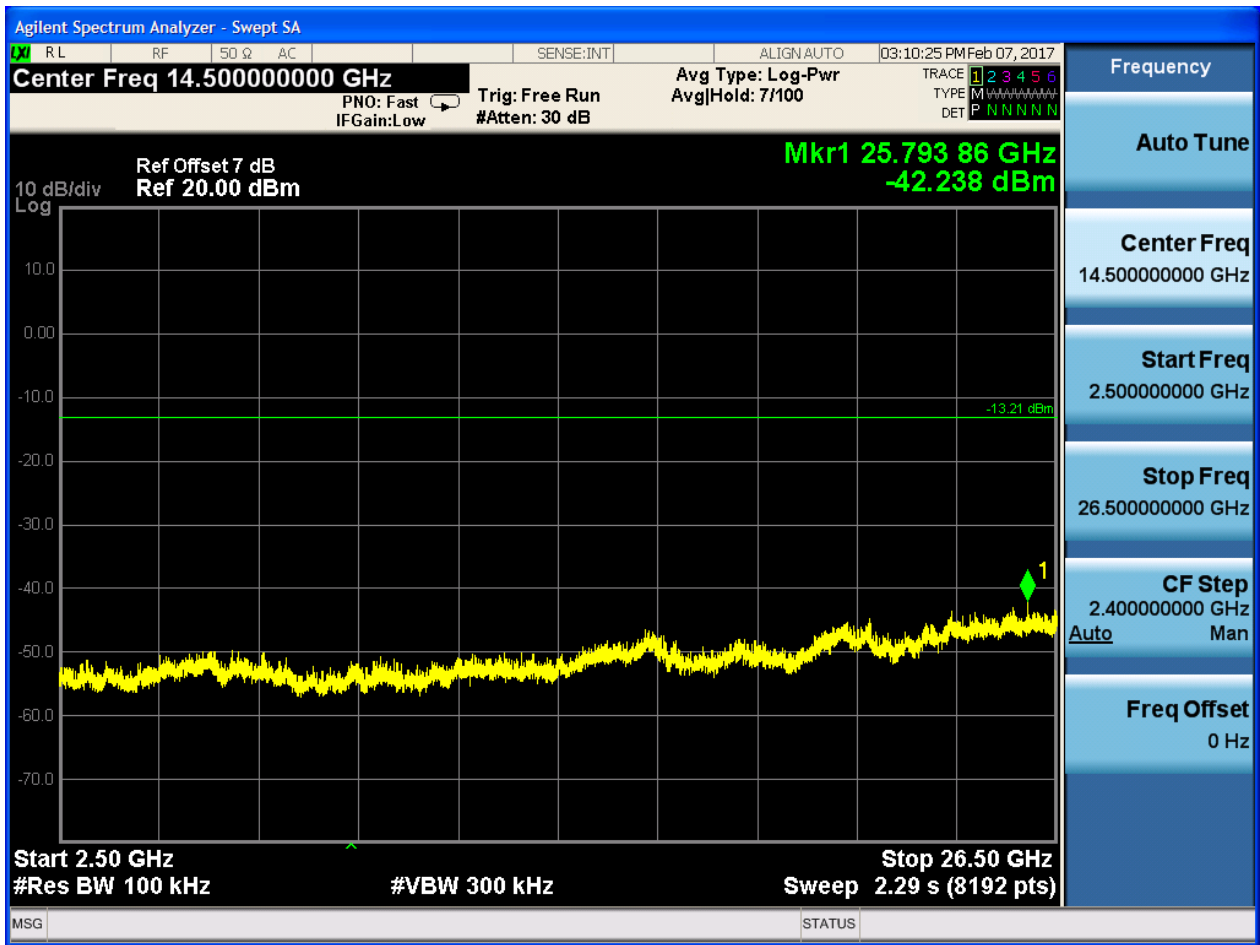








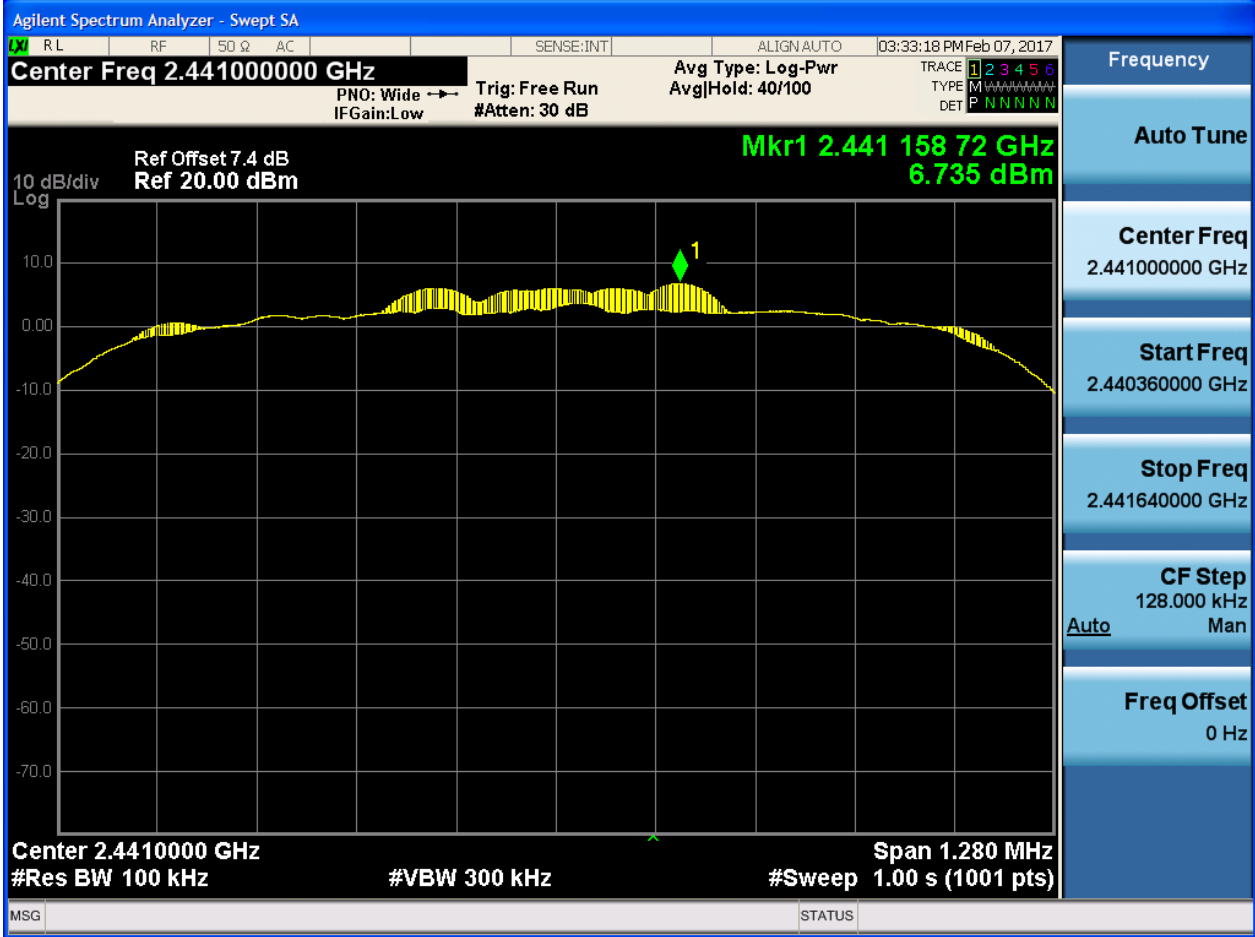






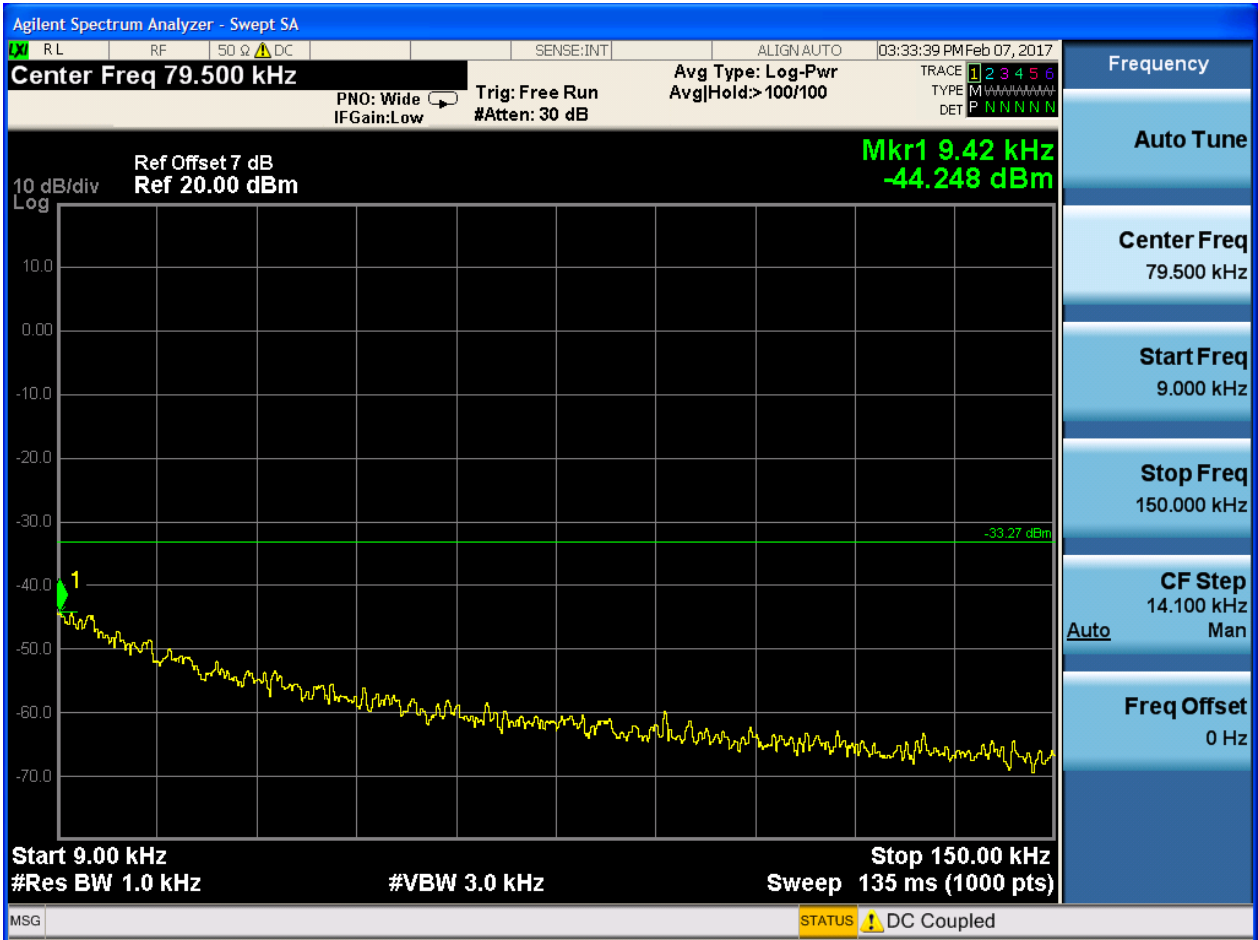
2.5 TM2_2DH5_Ch39

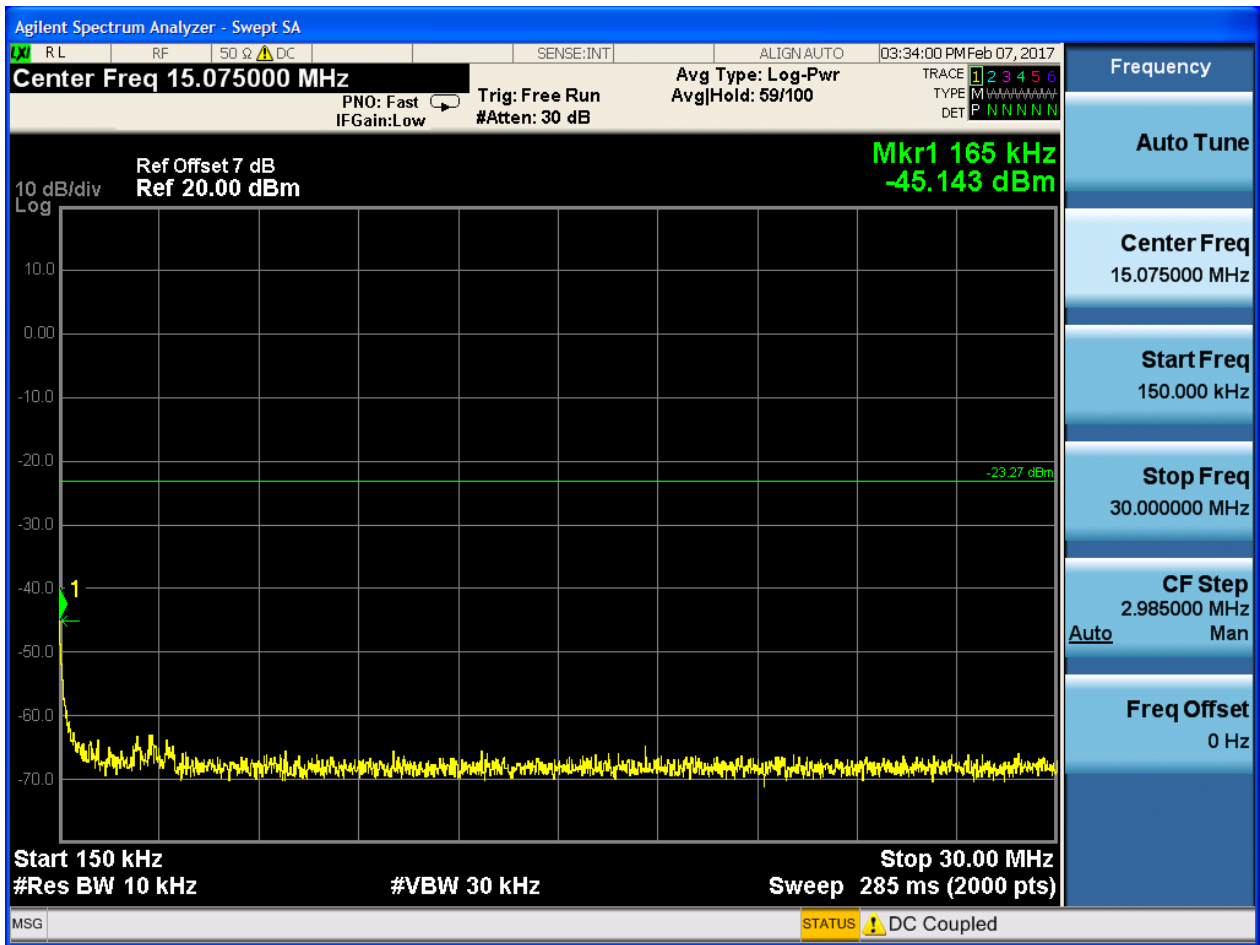
2.5.1 Pref

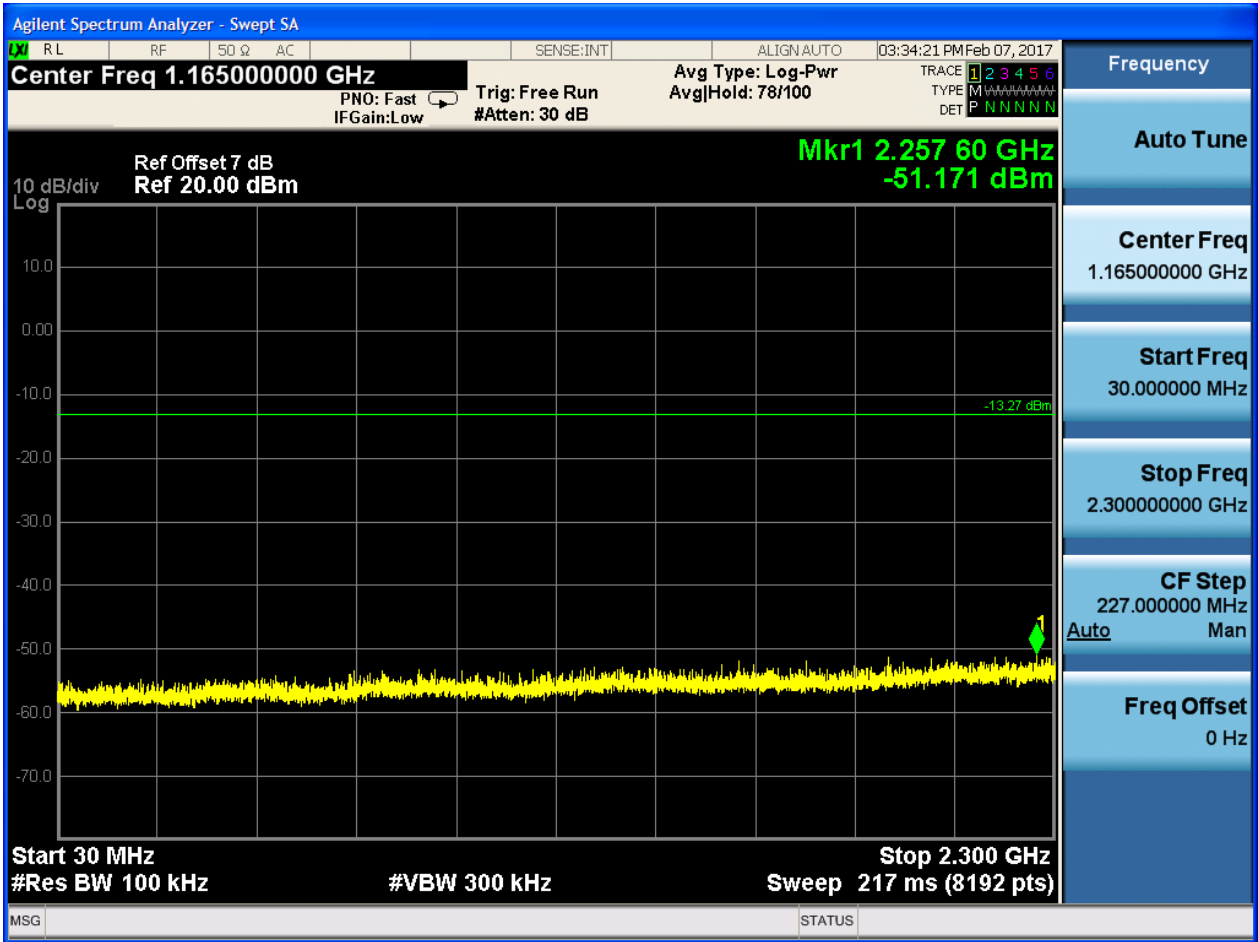


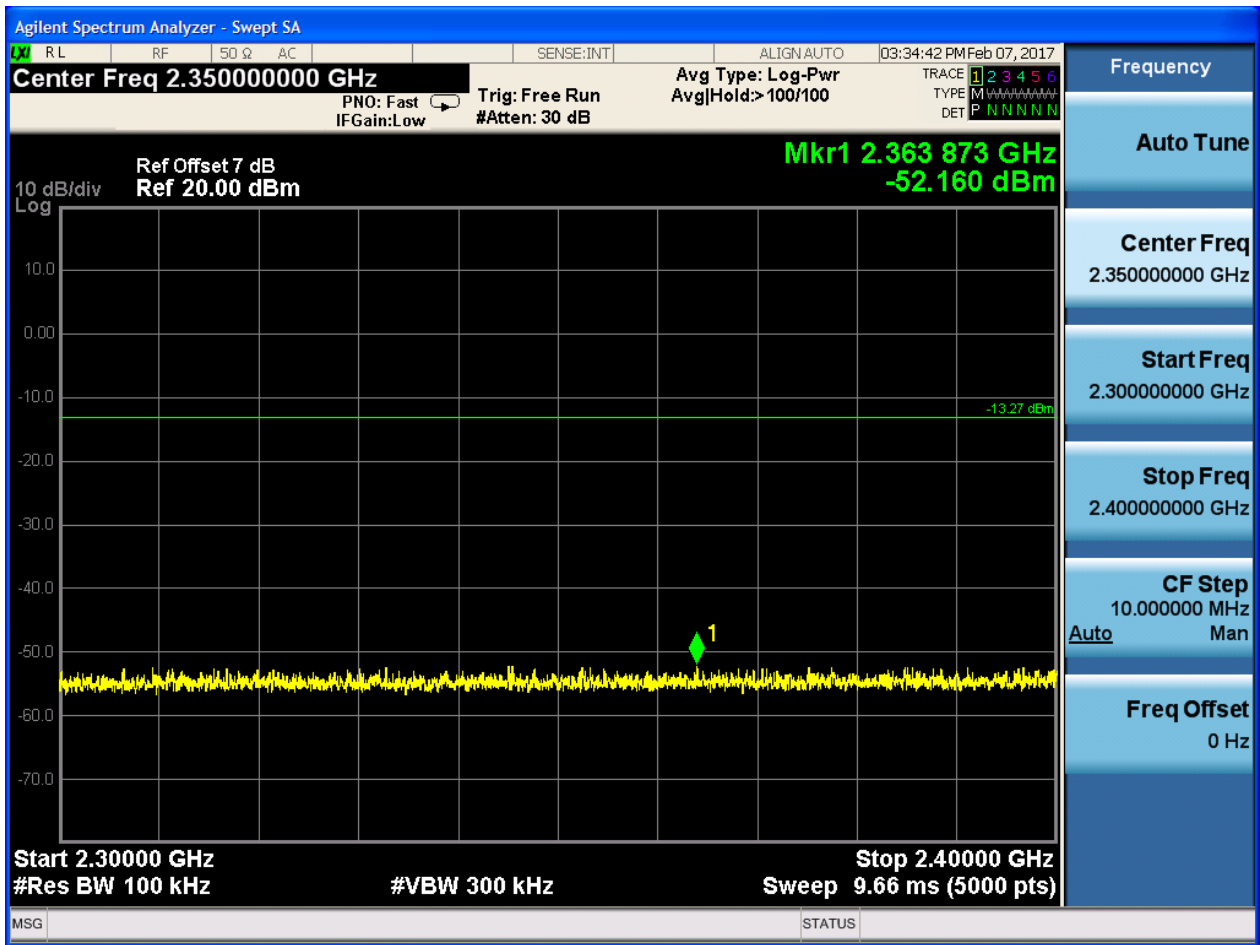


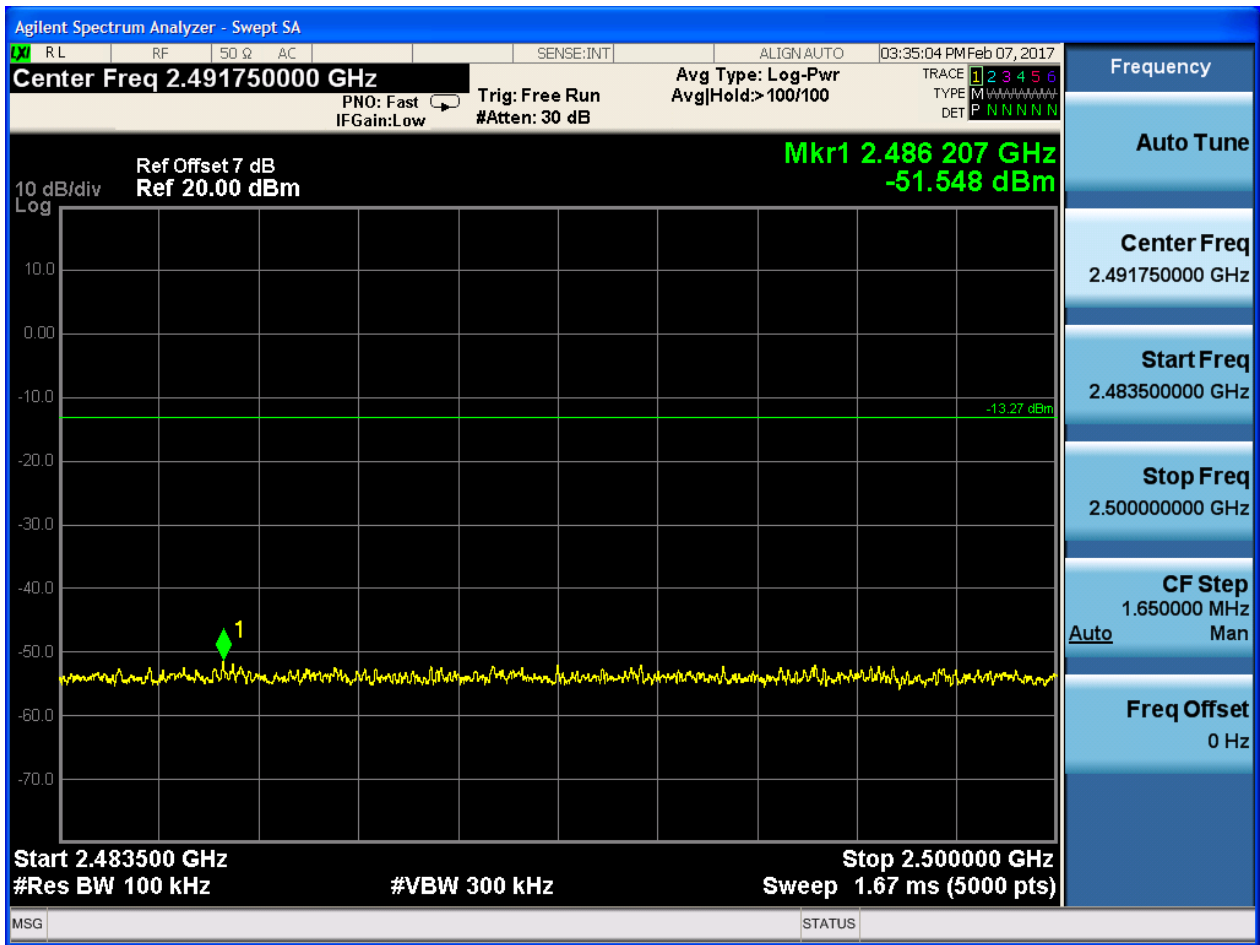
2.5.2 Puw

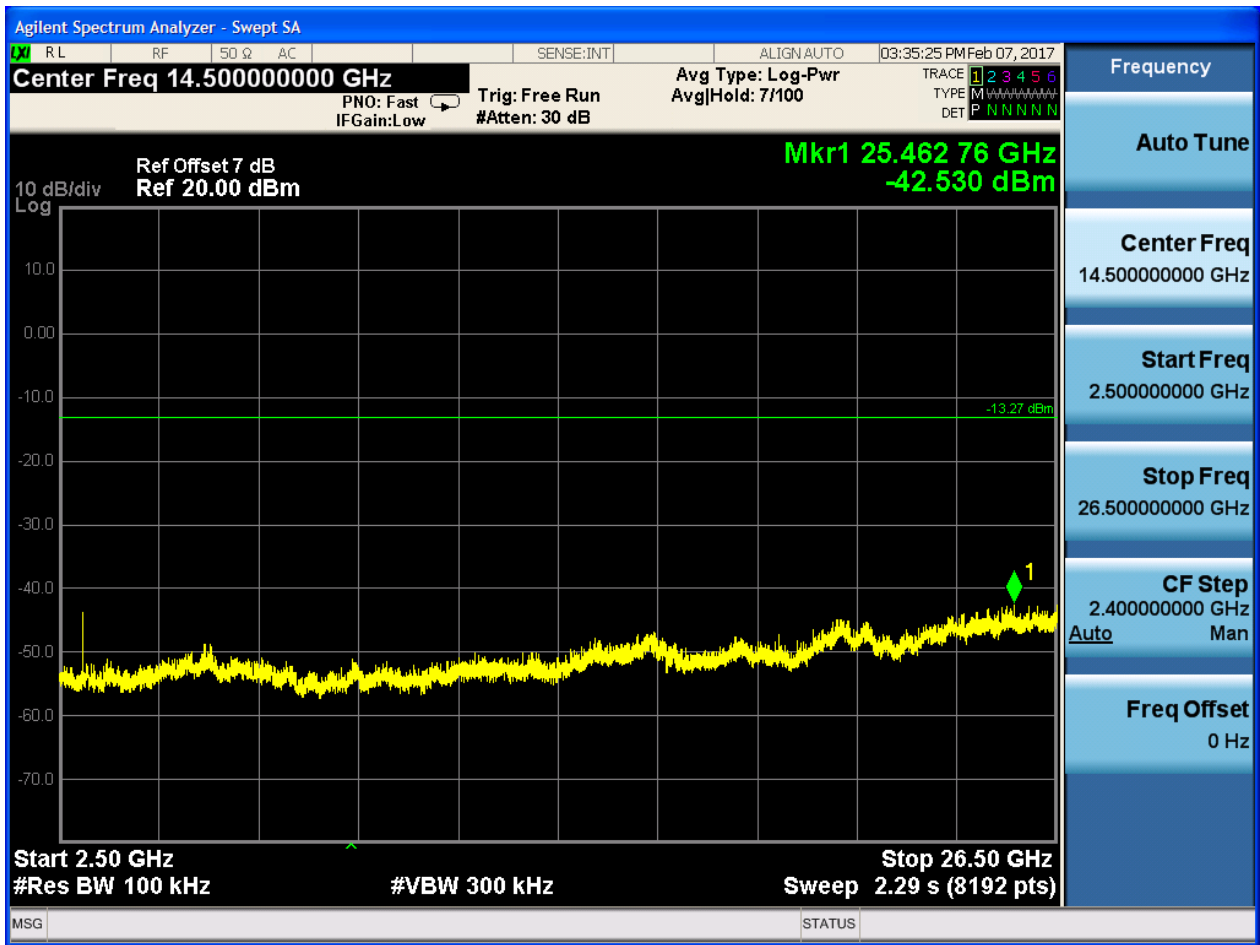








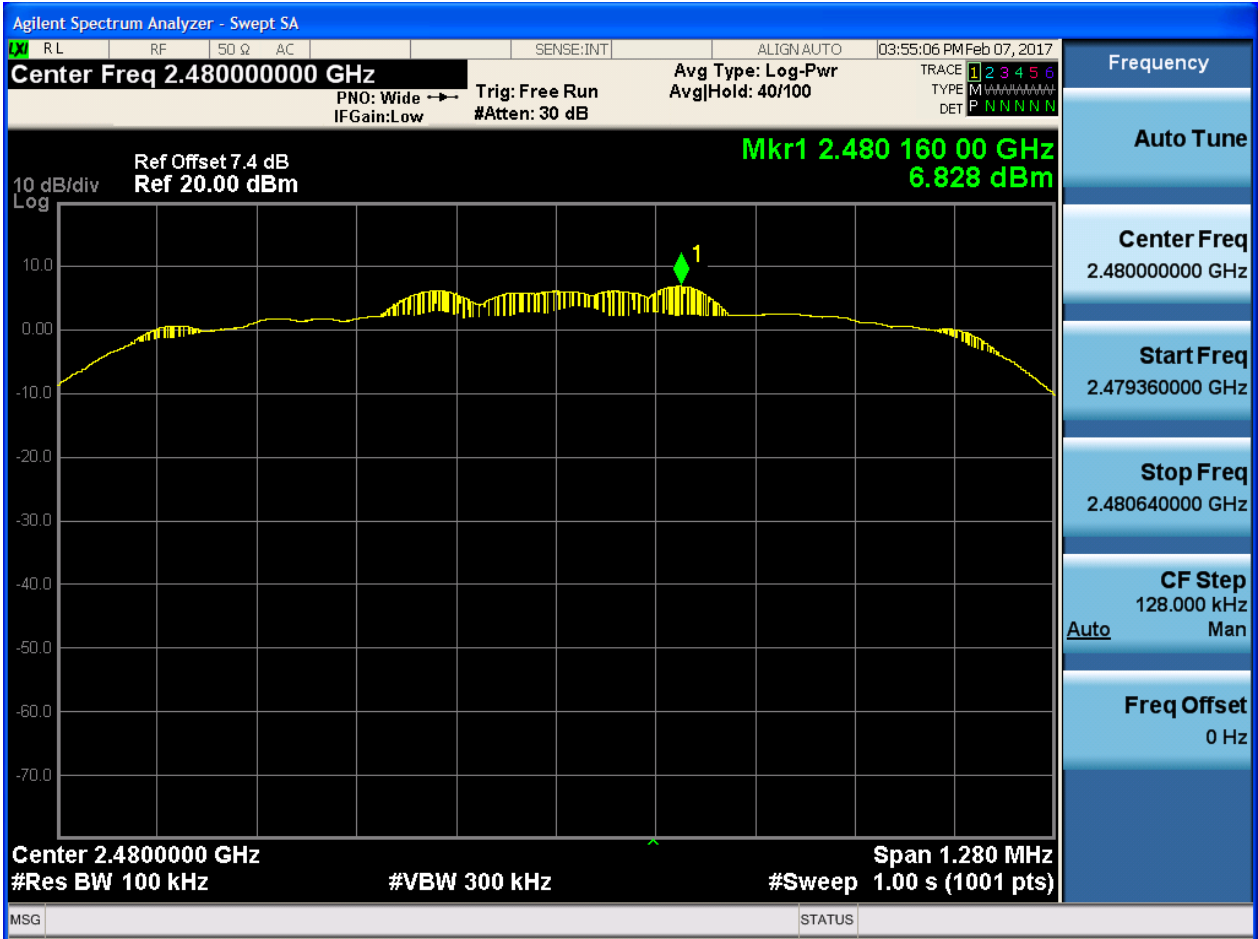






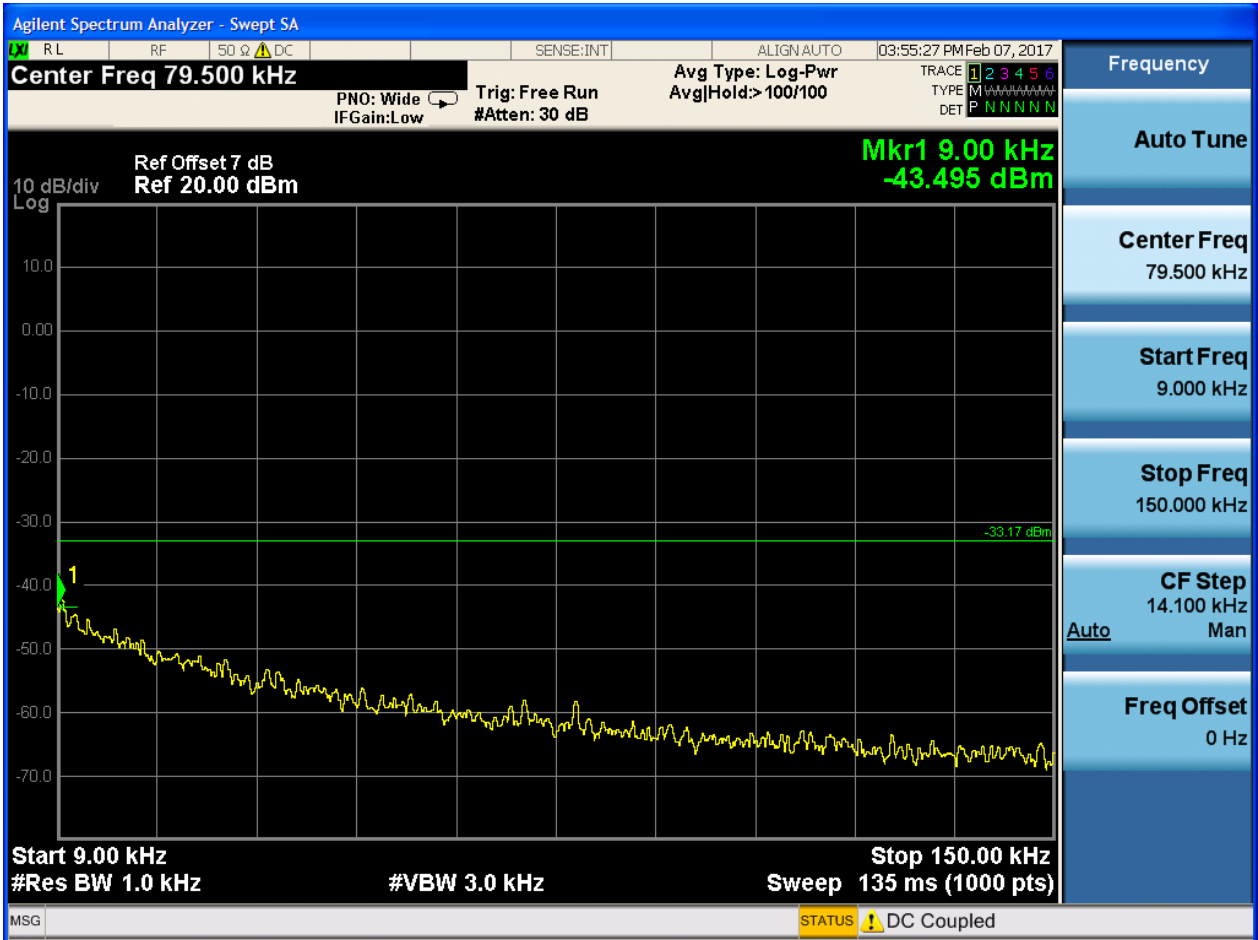
2.6 TM2_2DH5_Ch78

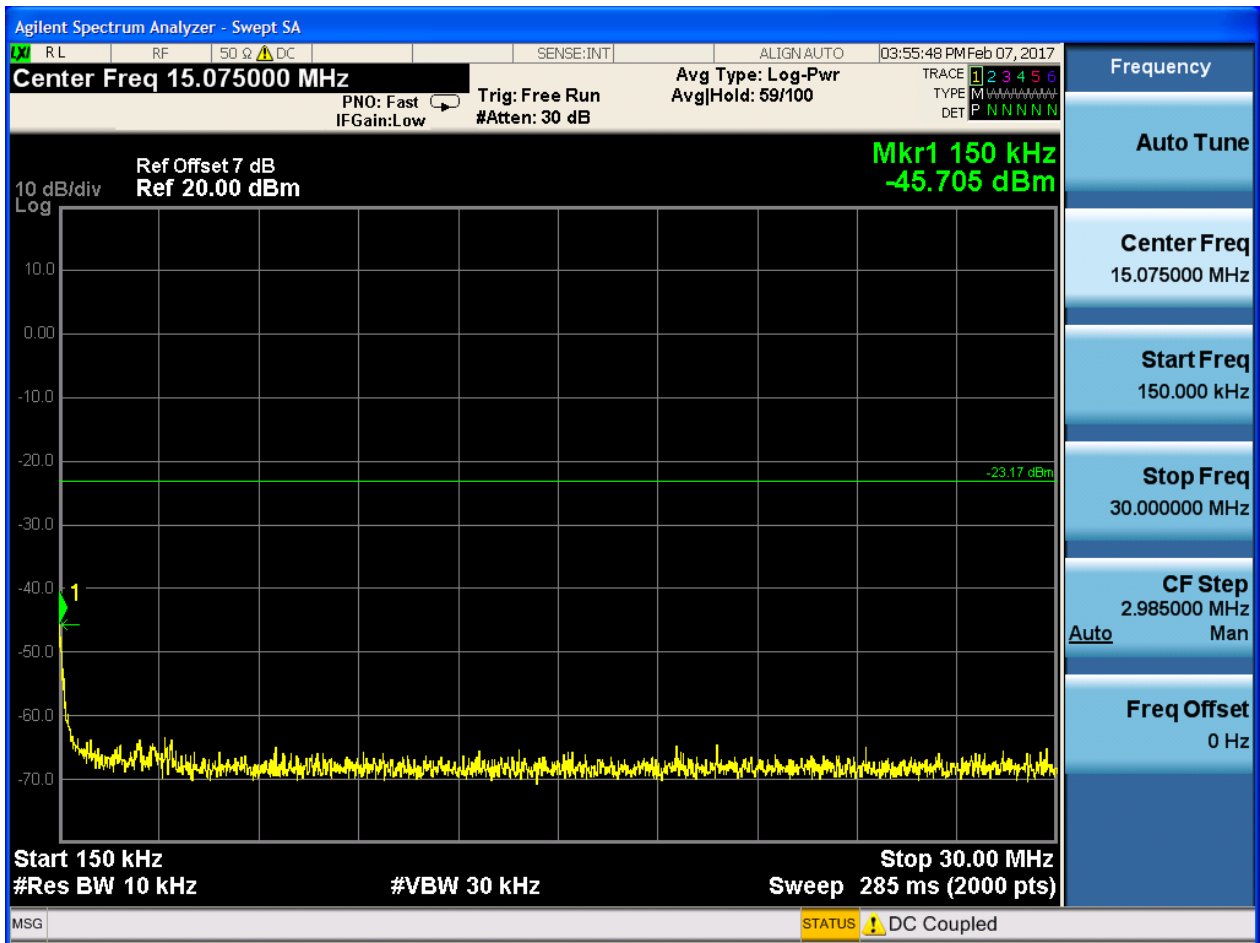
2.6.1 Pref

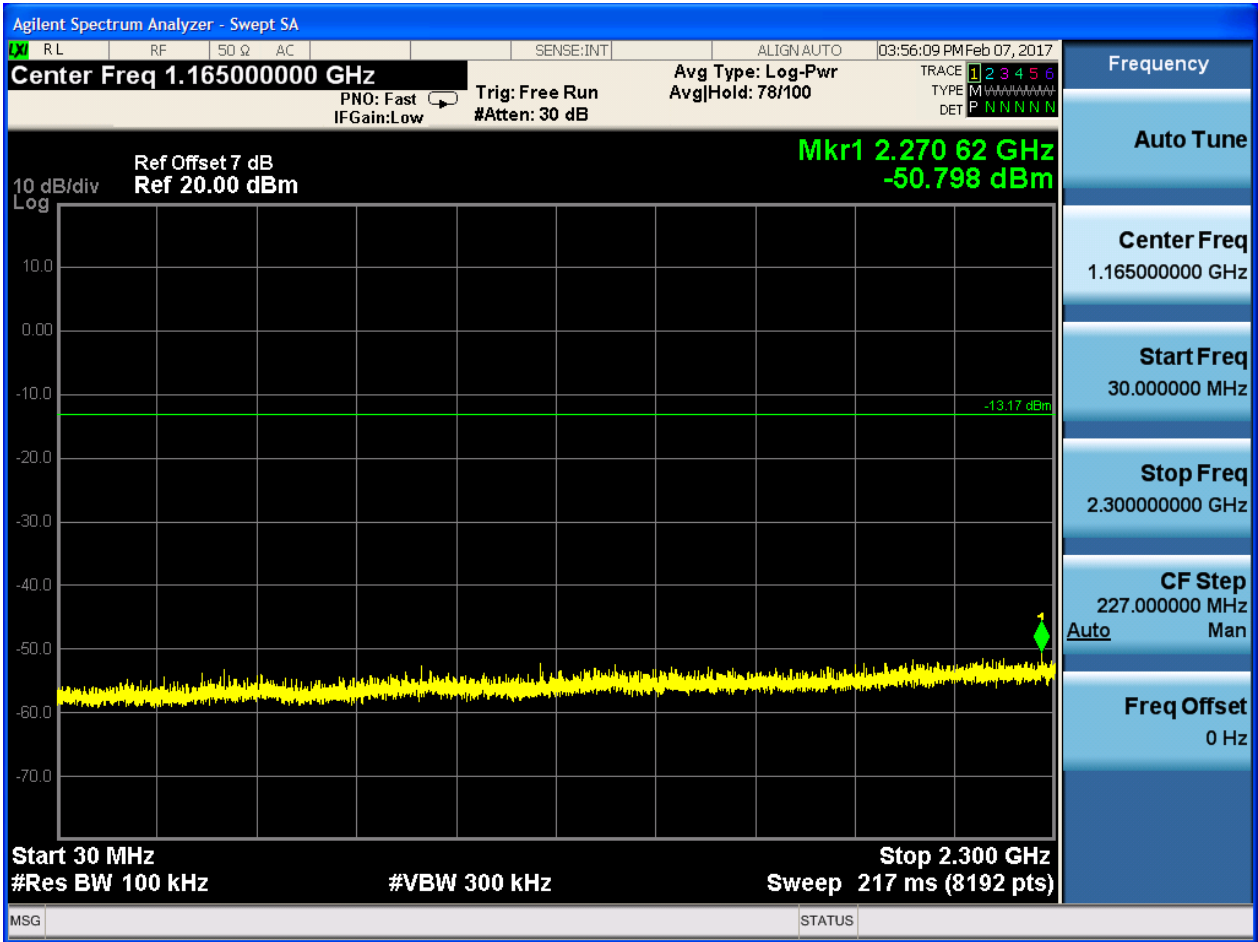


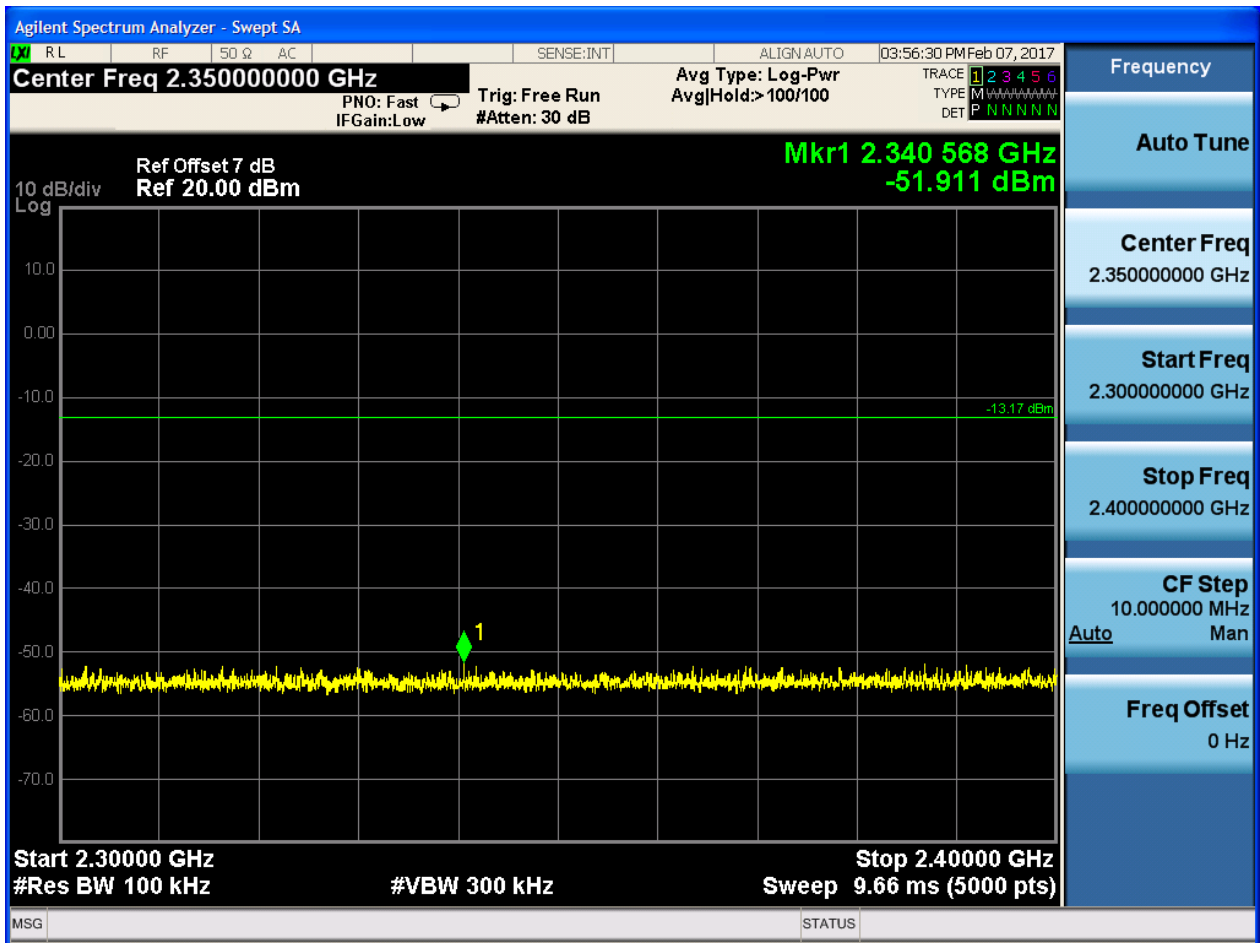


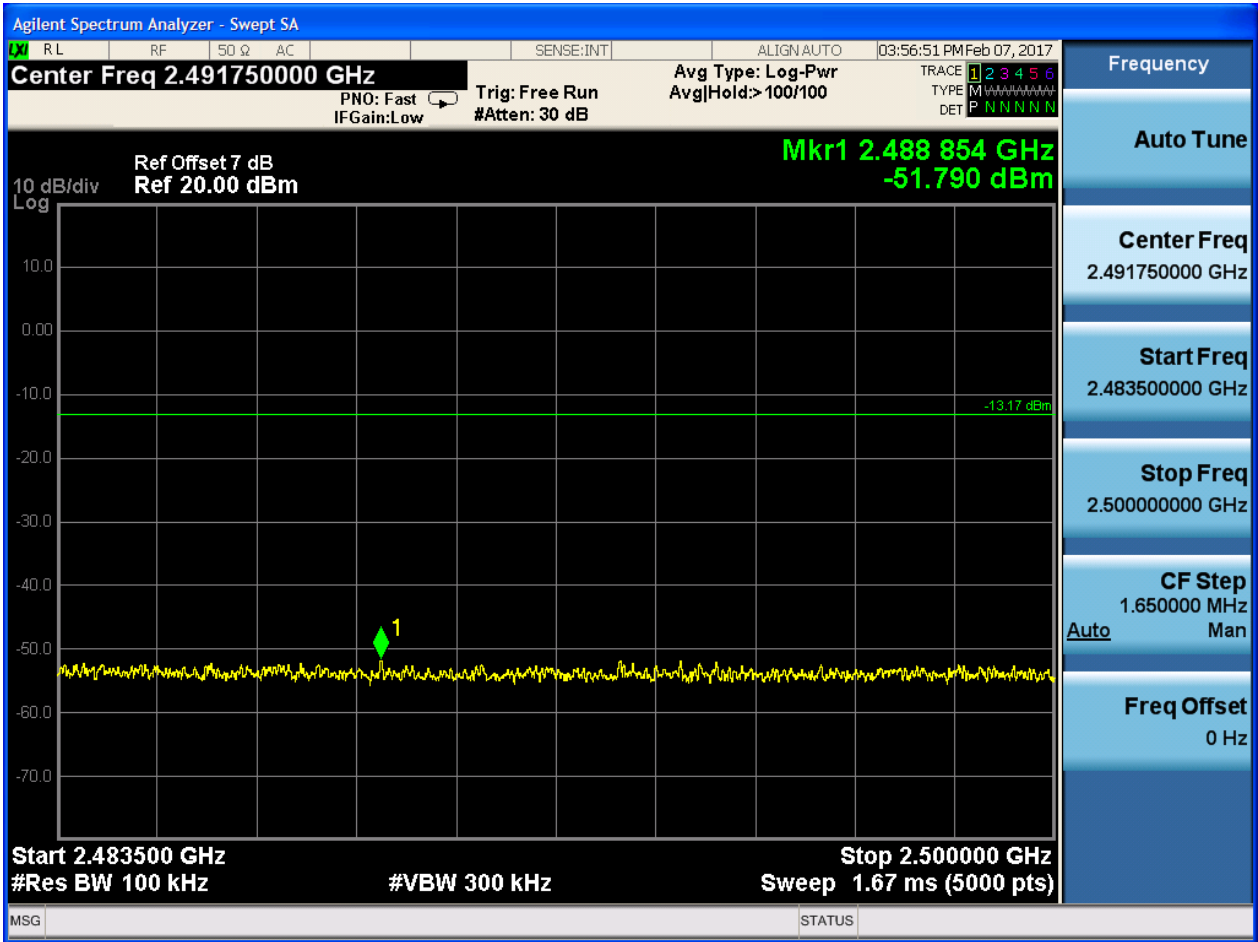
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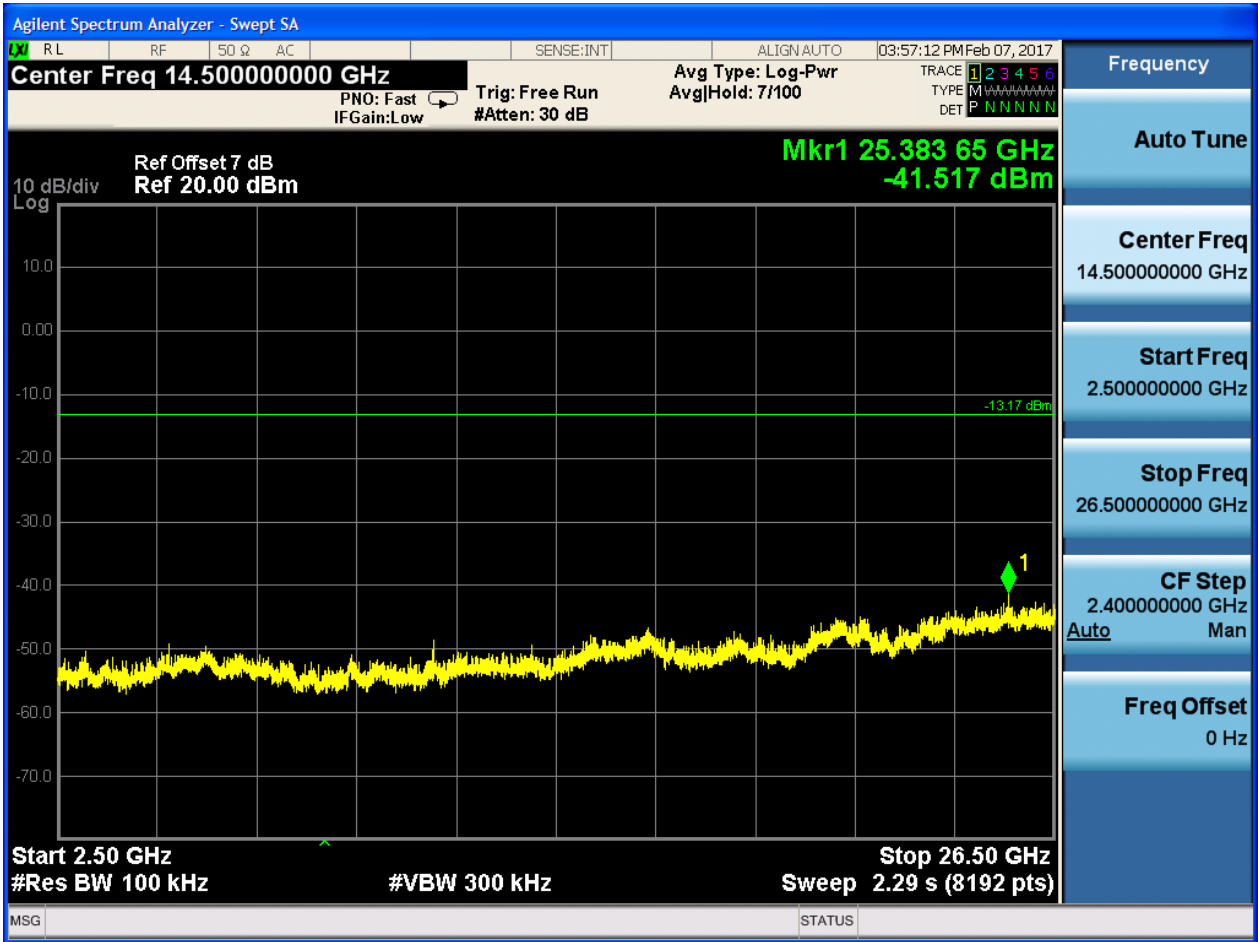








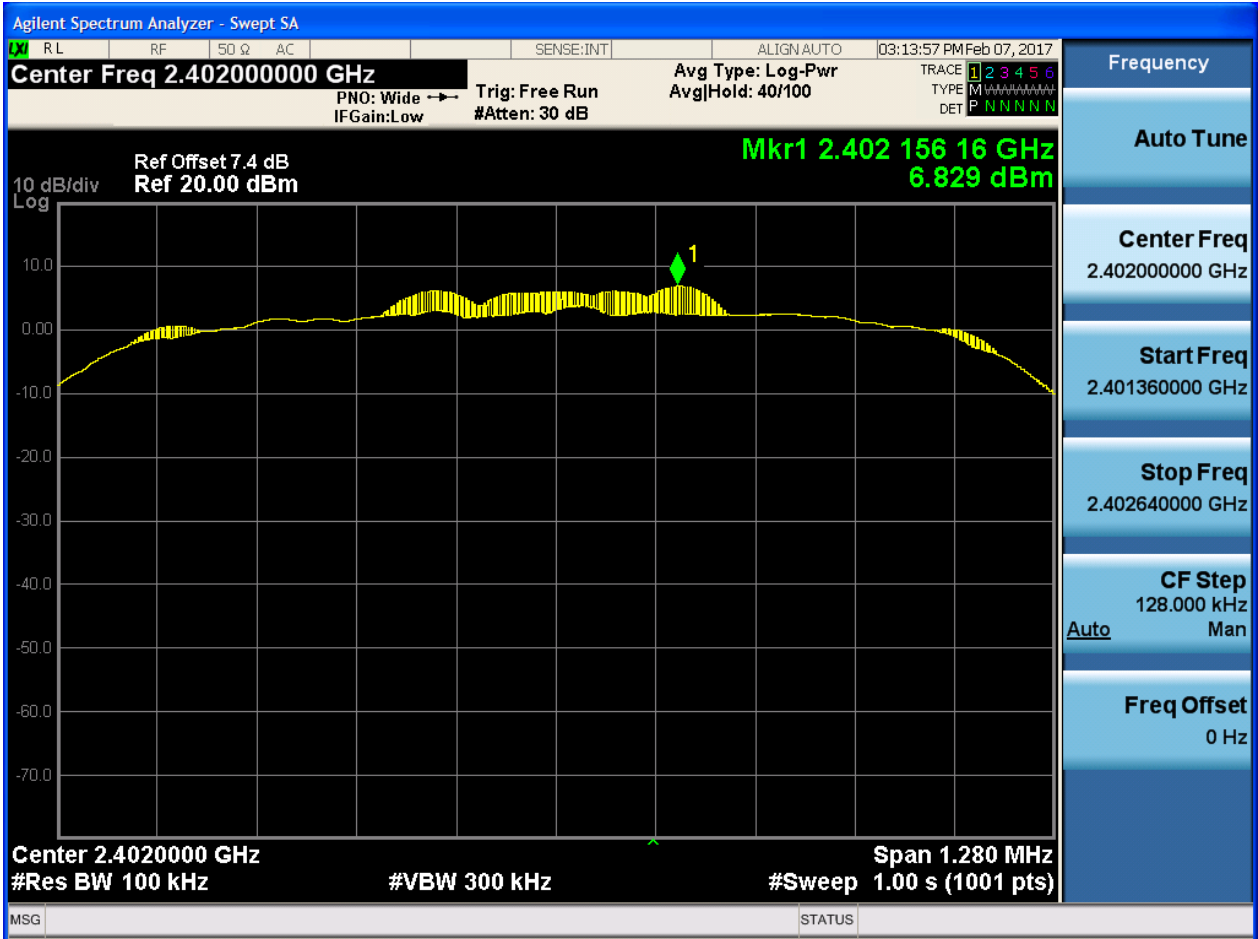






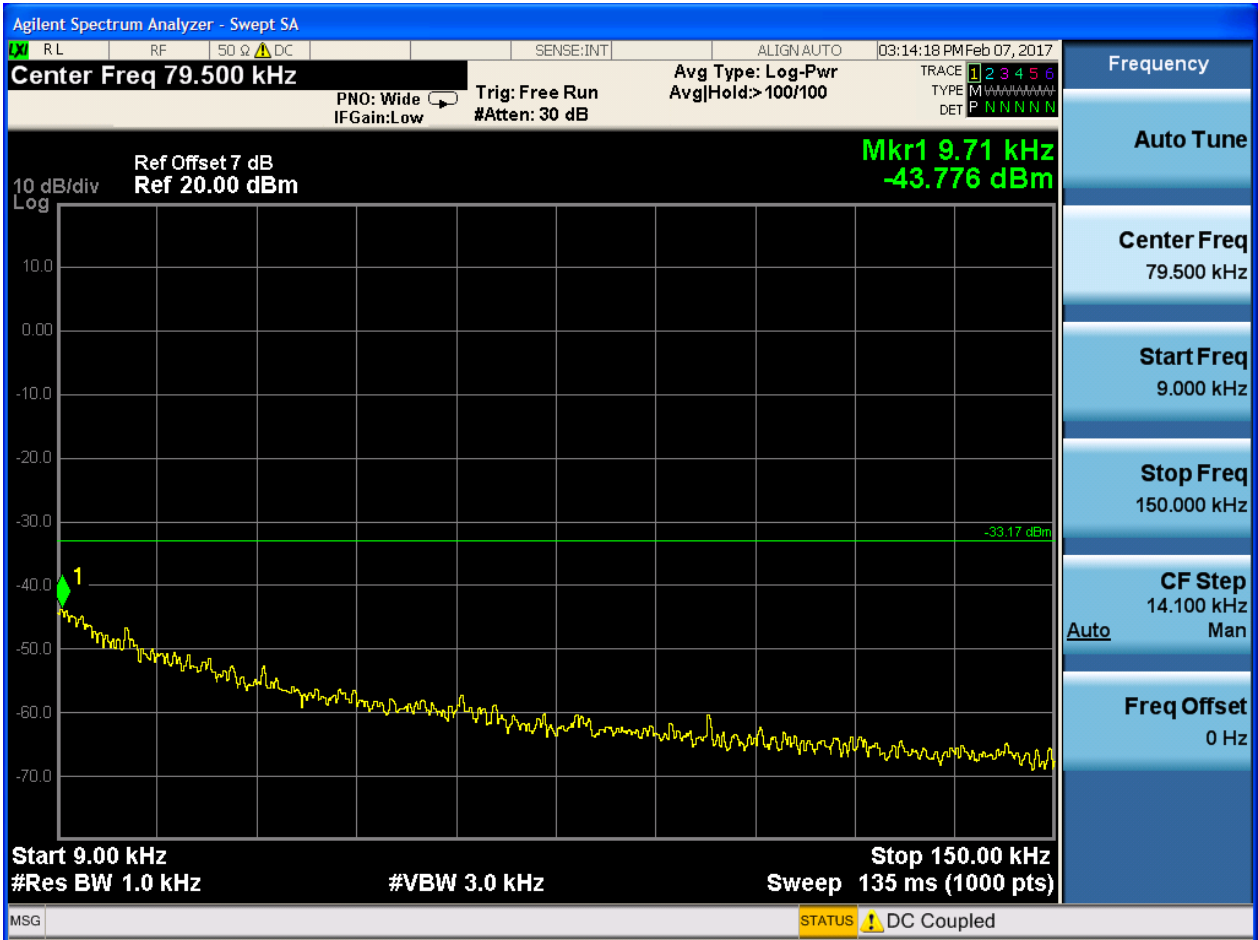
2.7 TM3_3DH5_Ch0

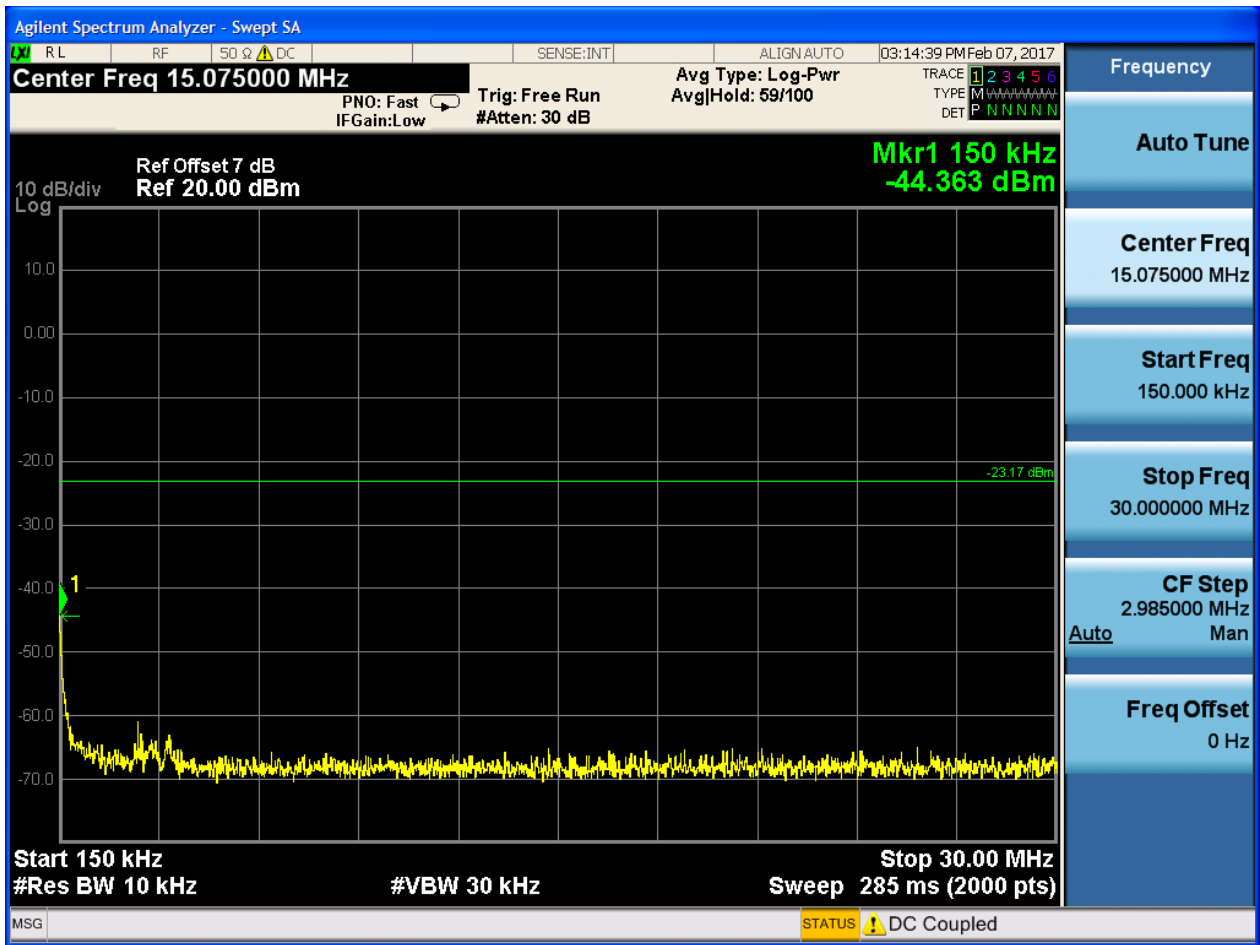
2.7.1 Pref

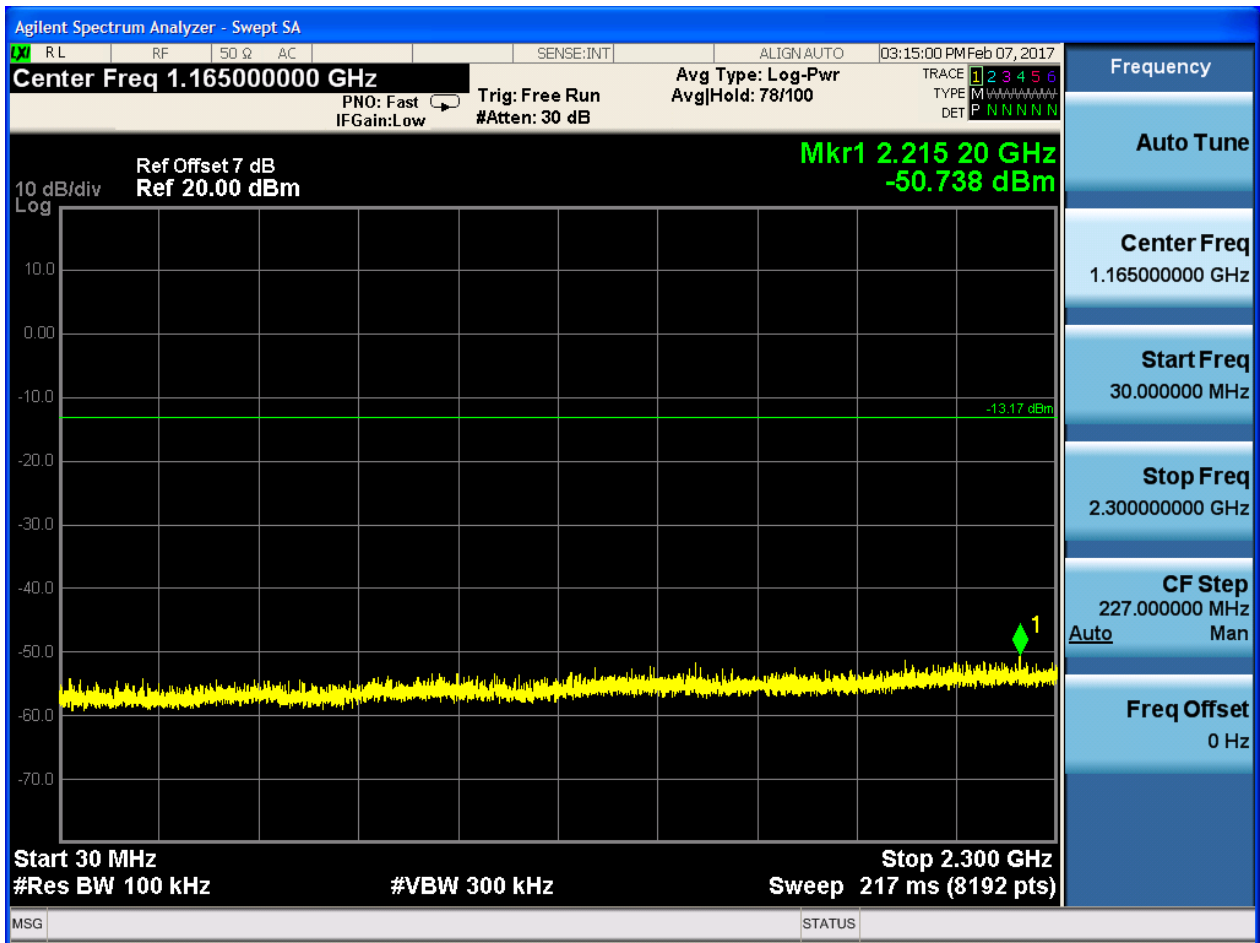


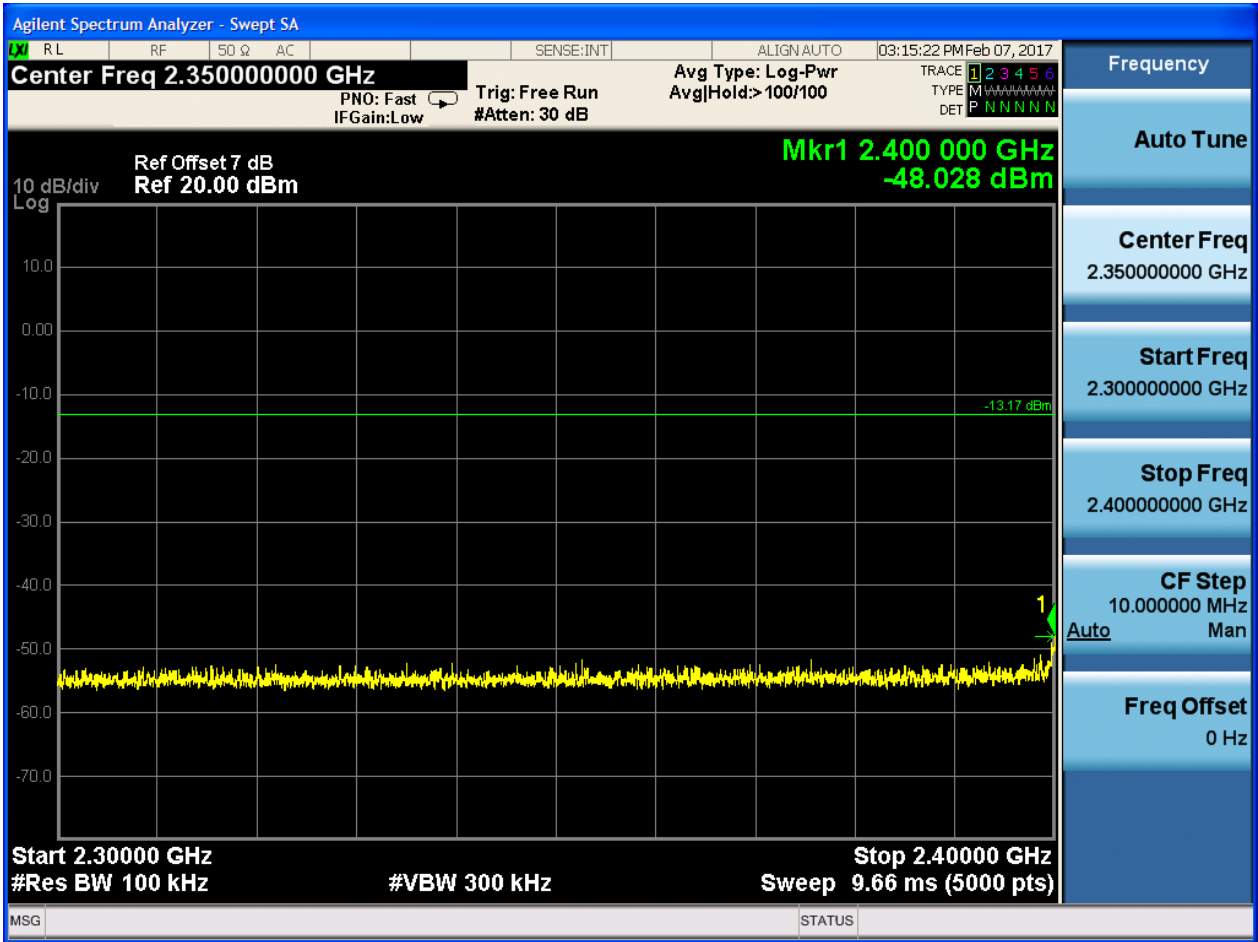


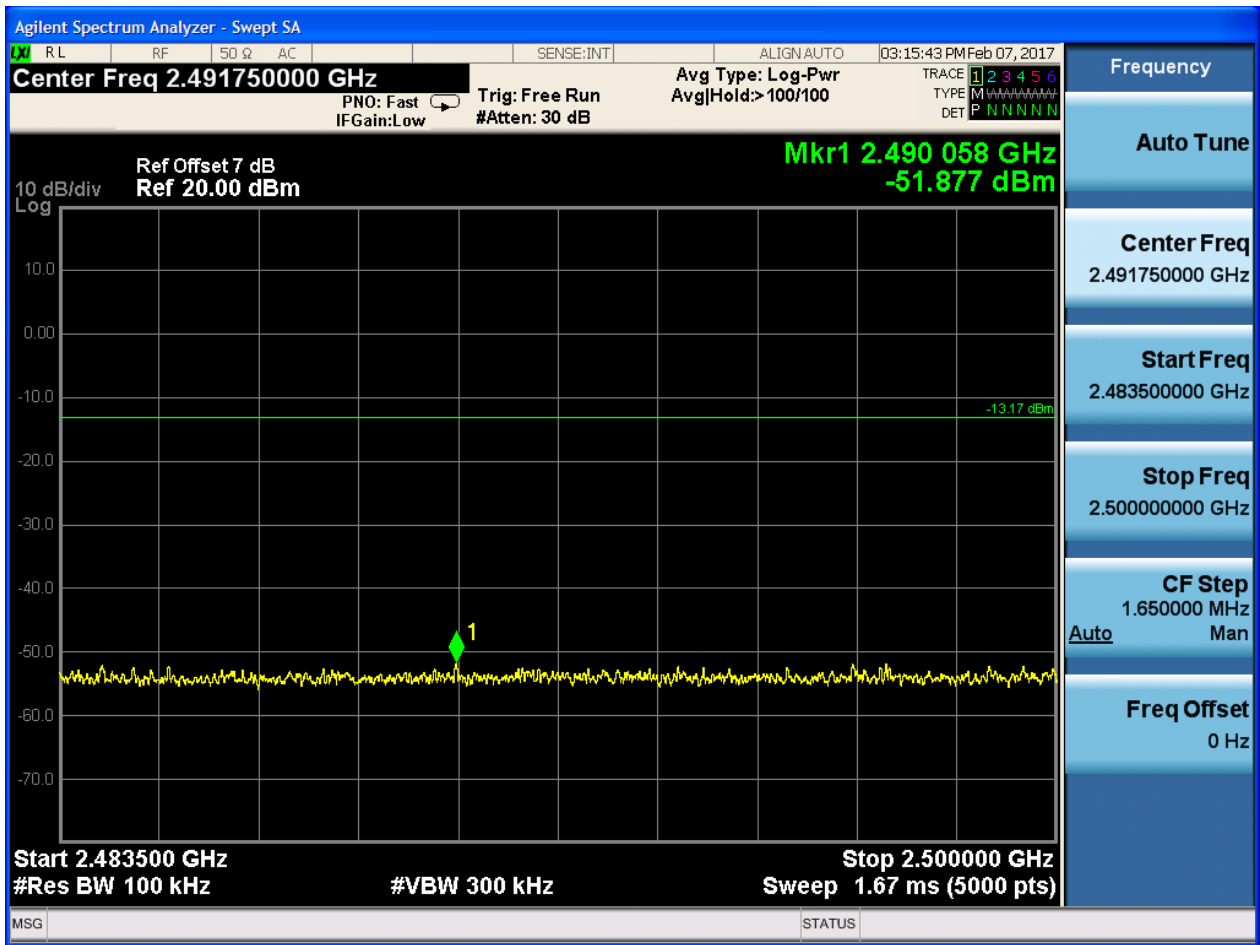
2.7.2 Puw

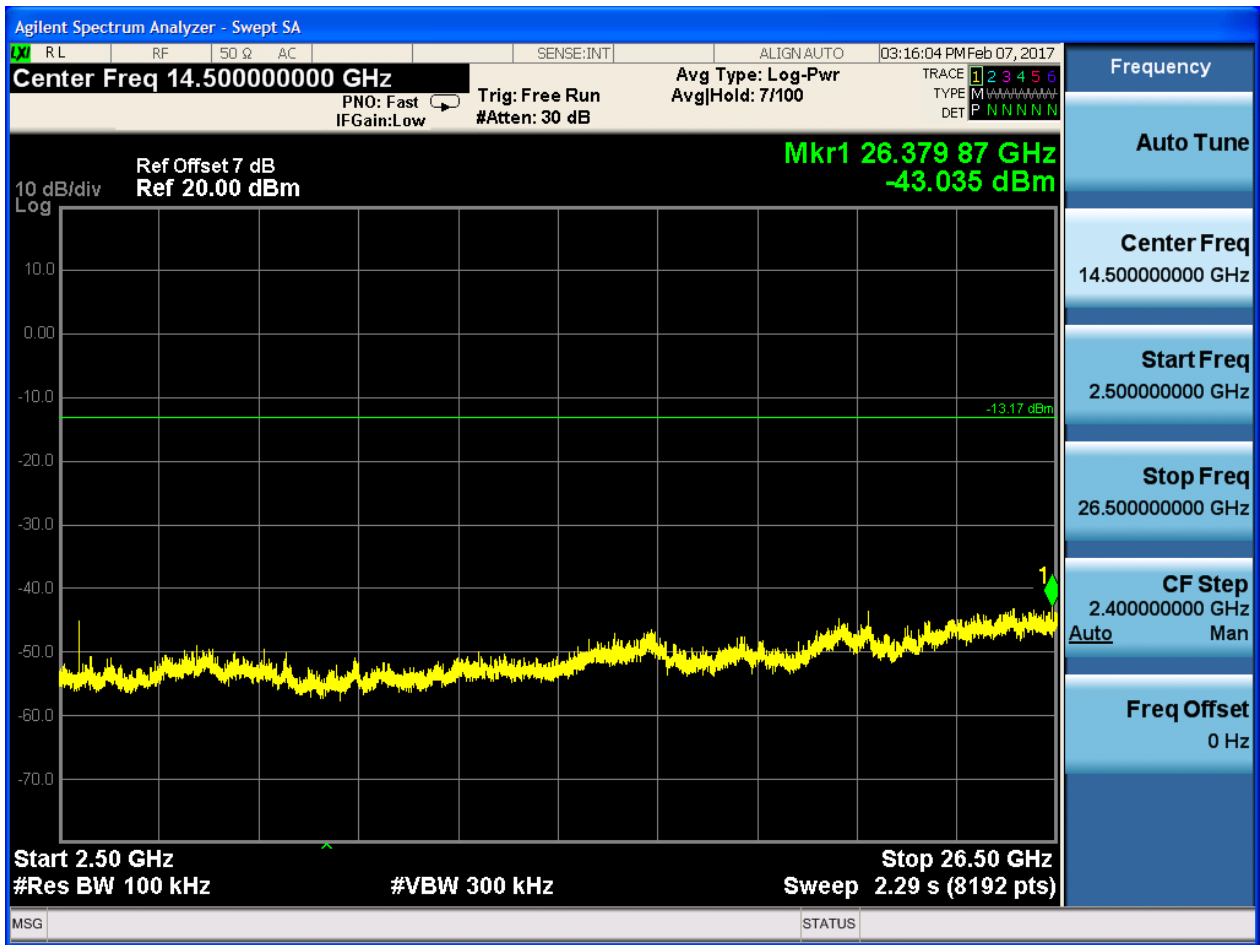








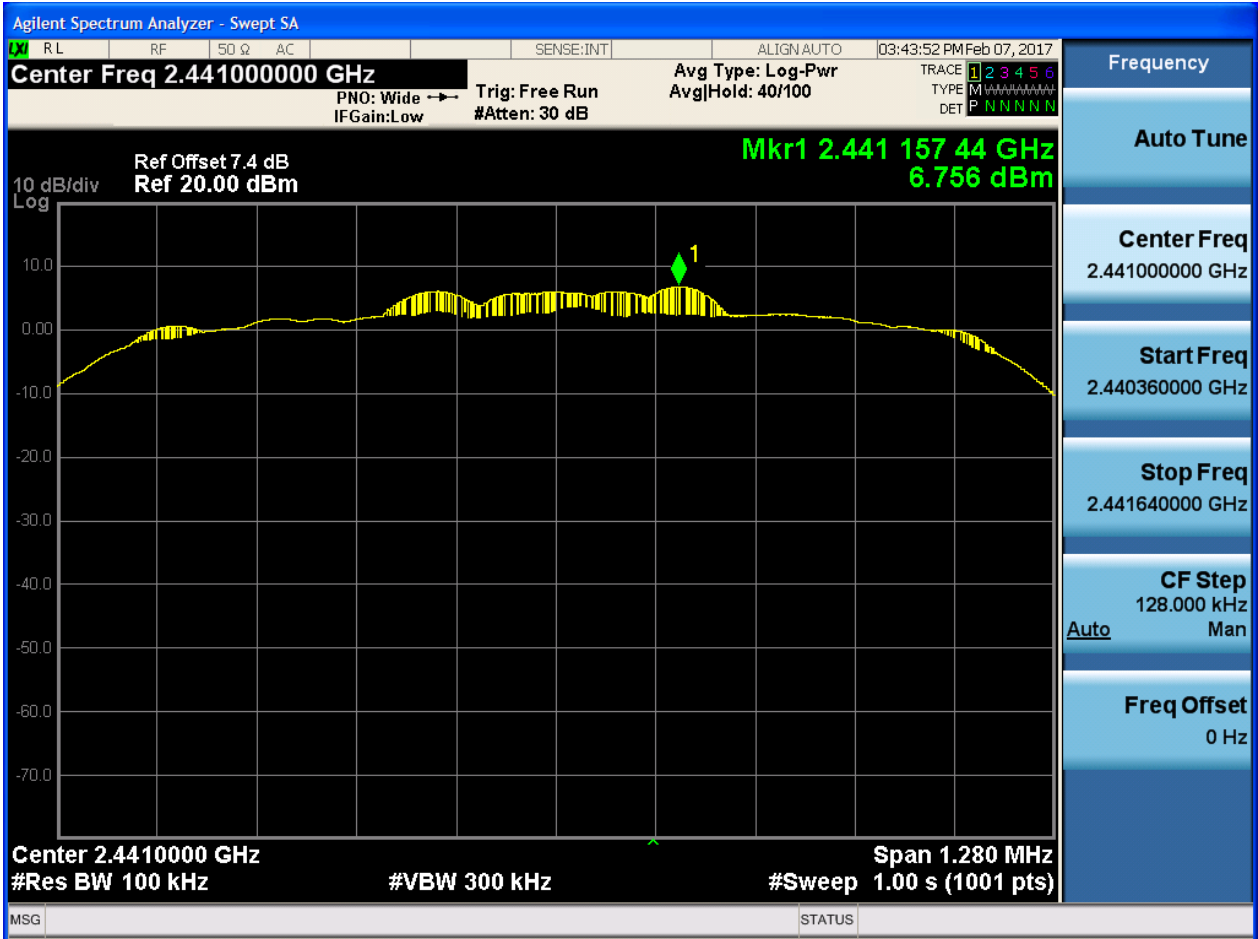






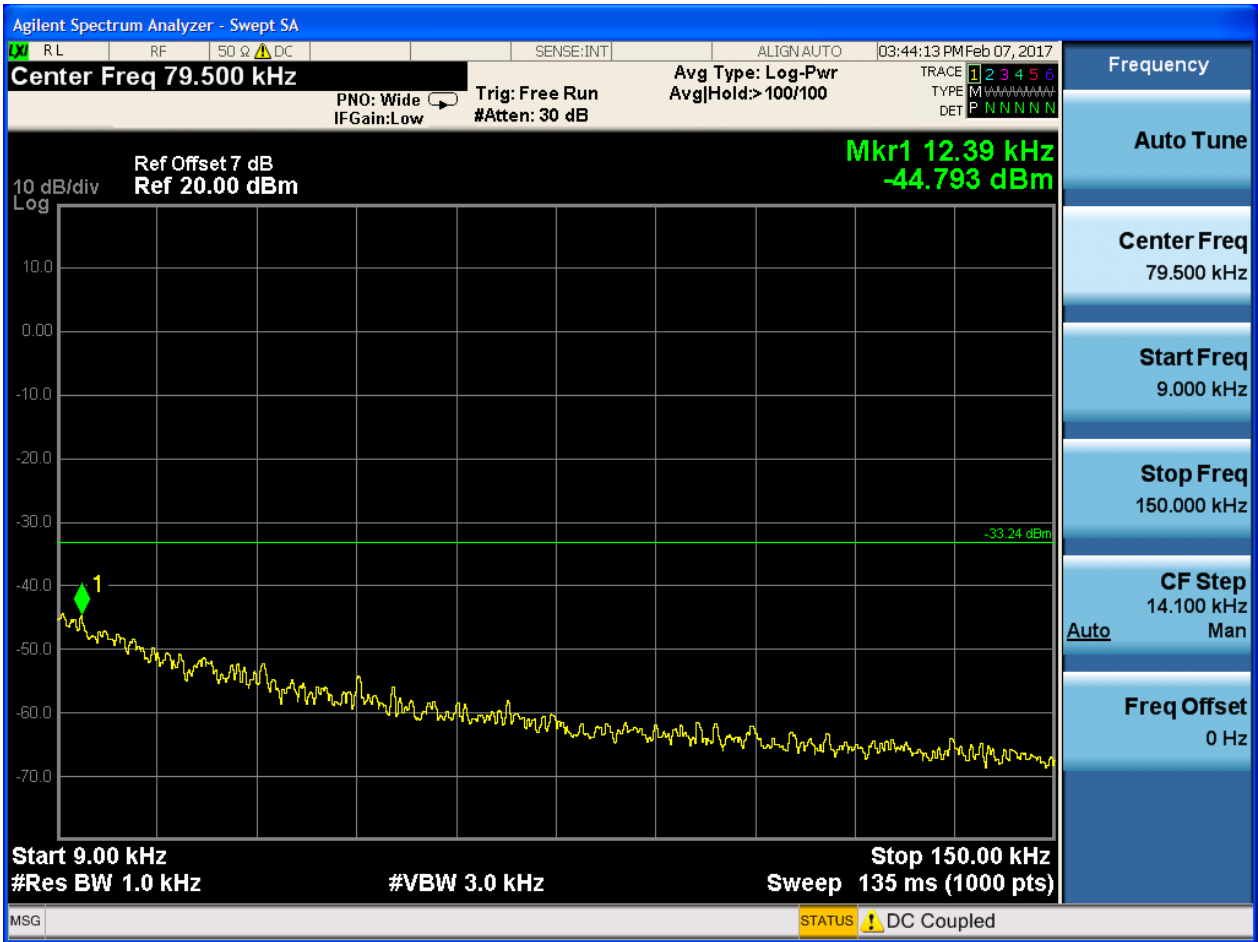
2.8 TM3_3DH5_Ch39

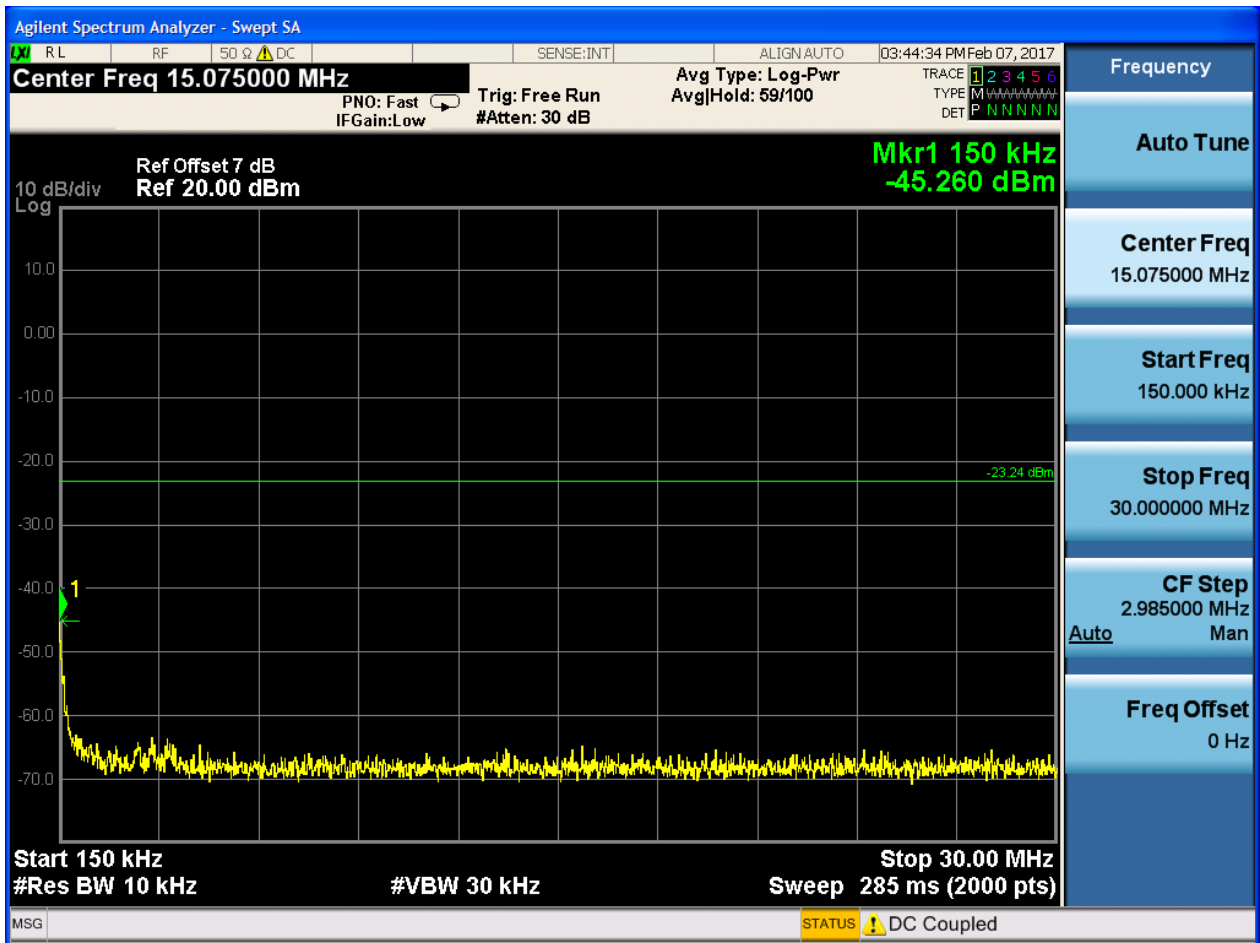
2.8.1 Pref

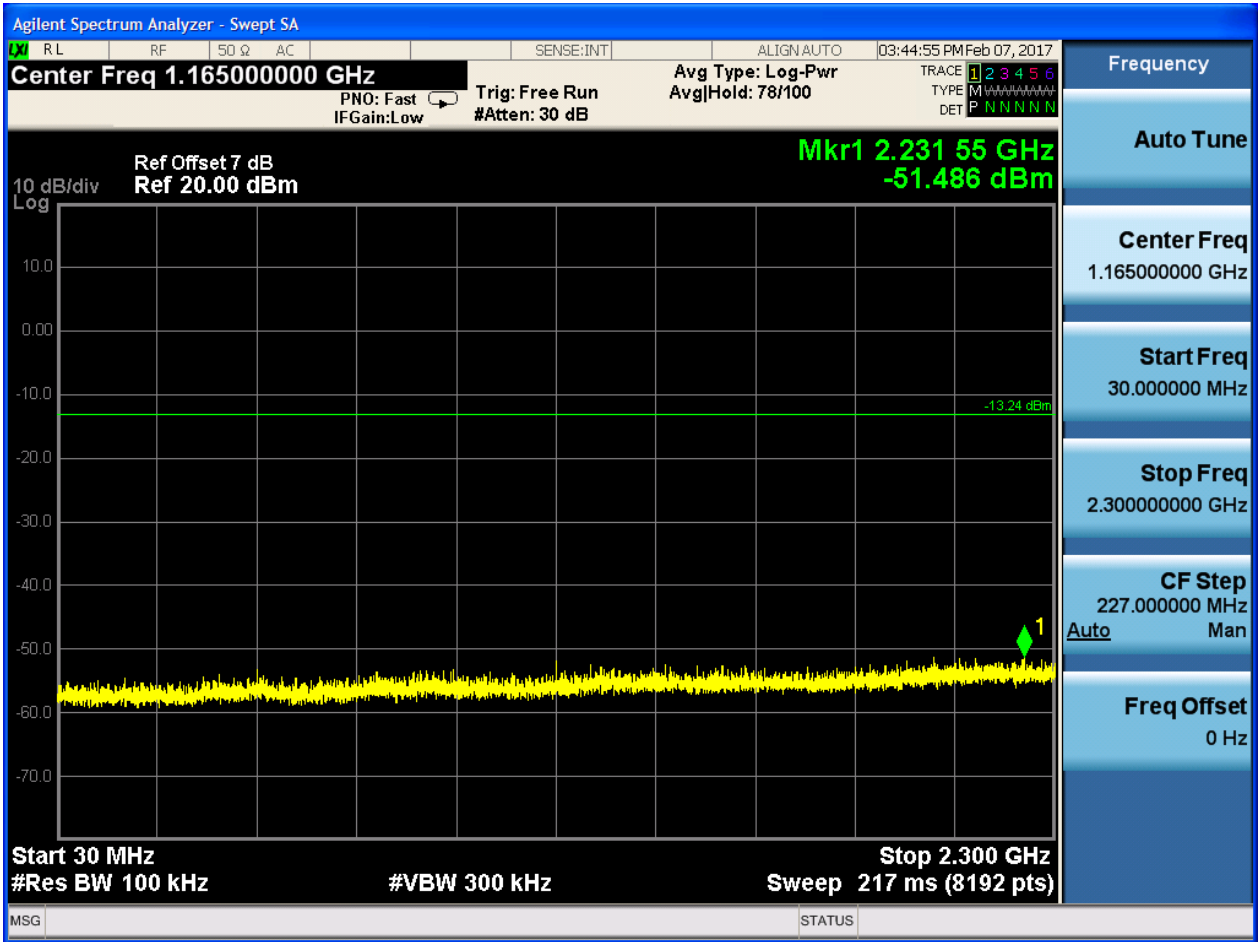


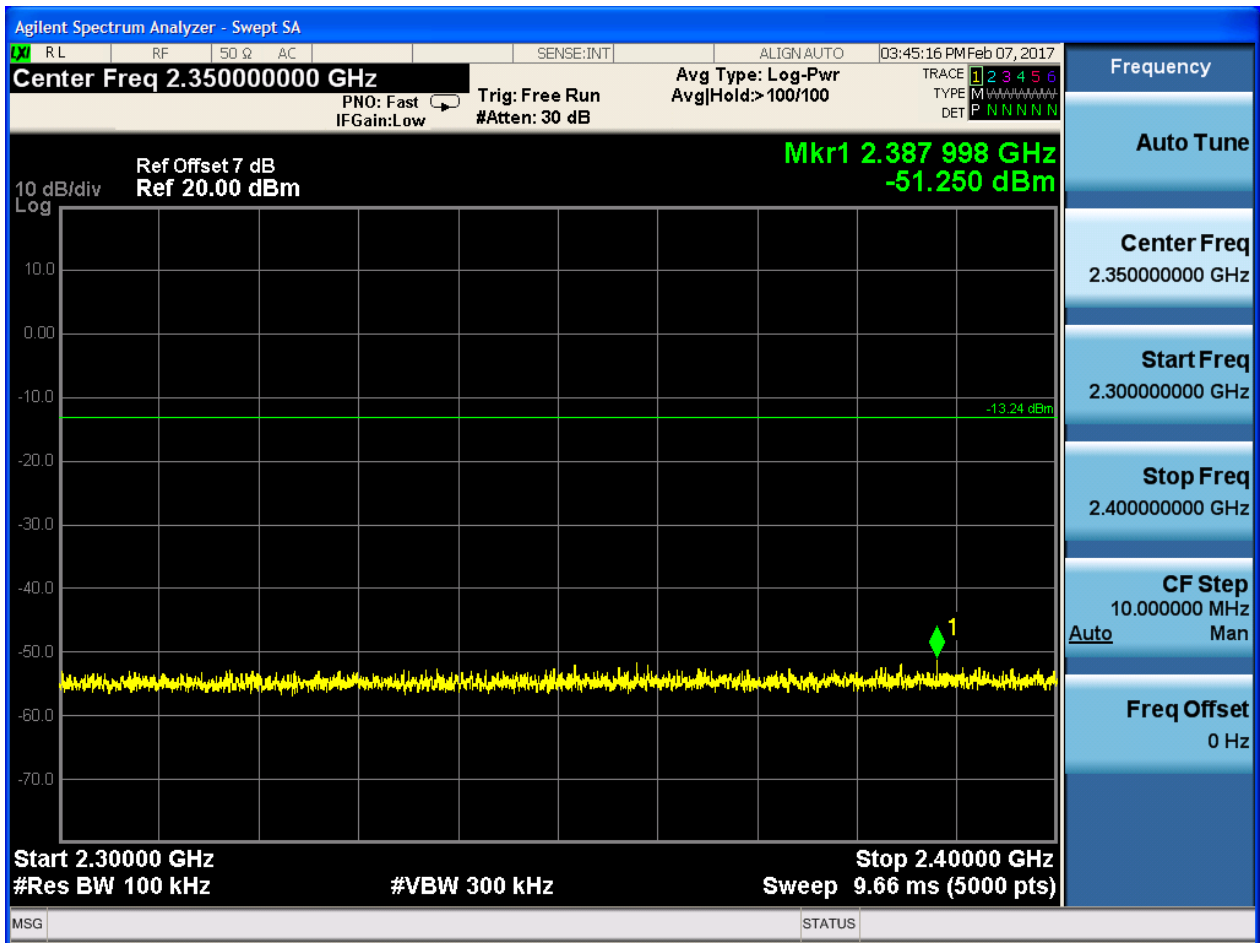


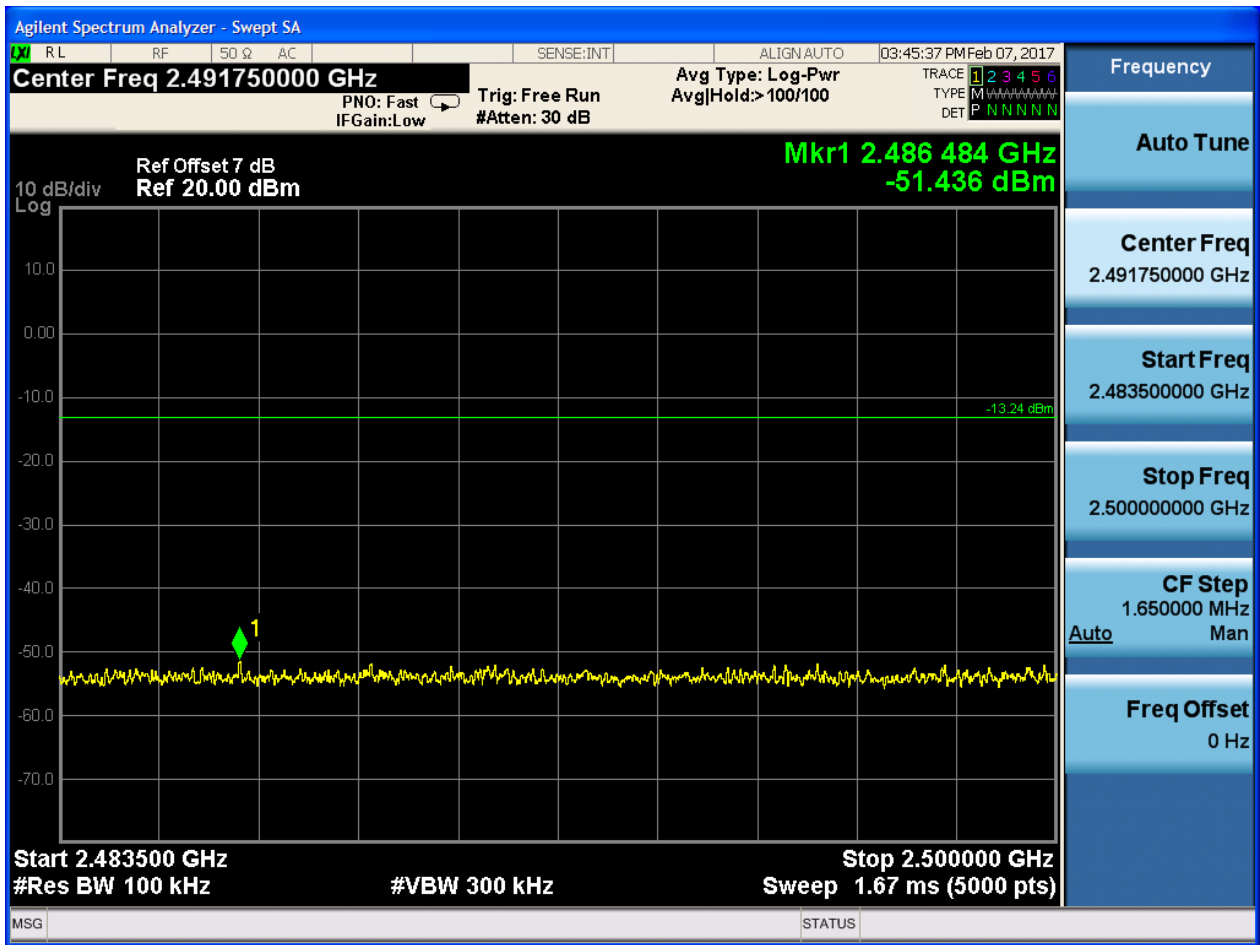
2.8.2 Puw

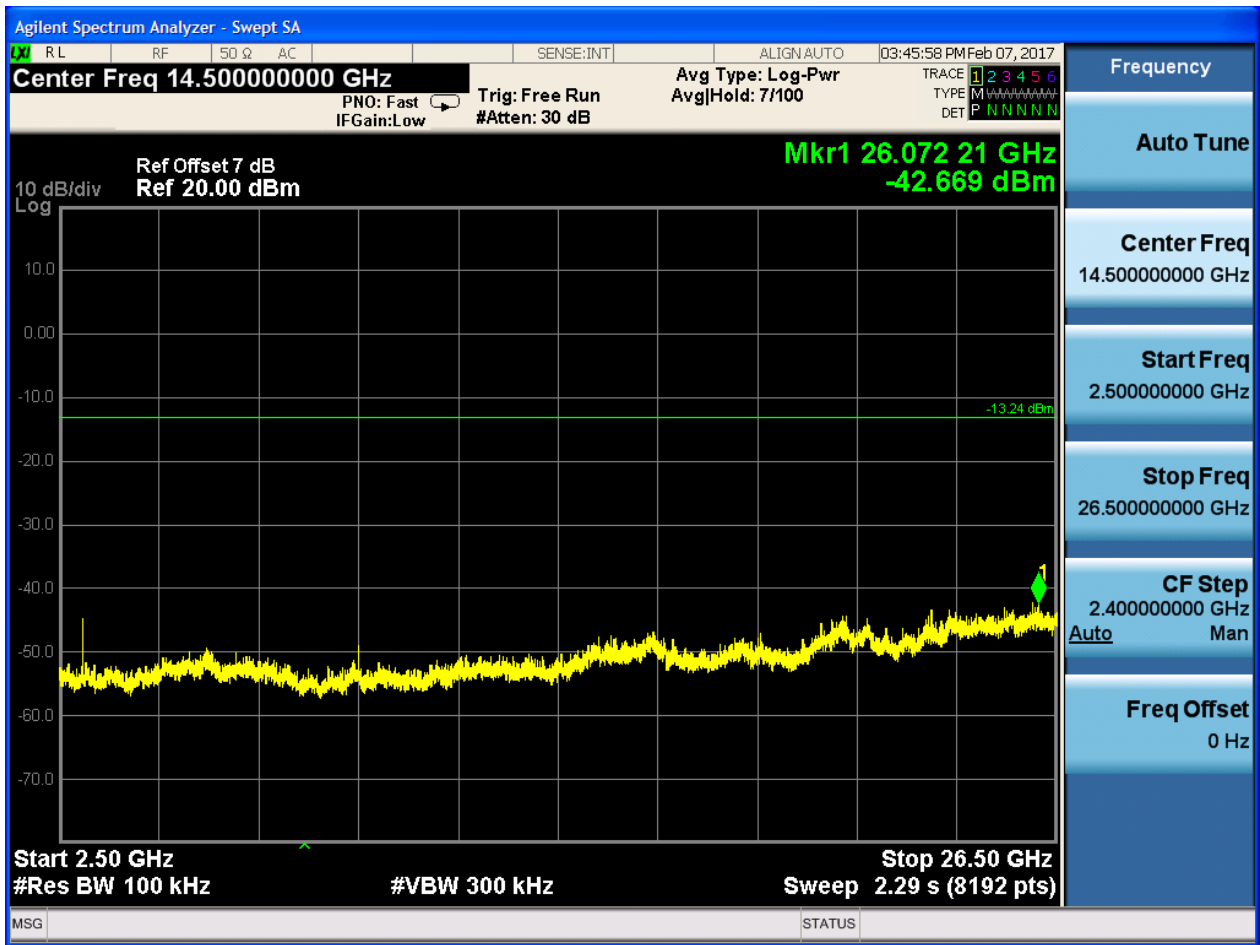








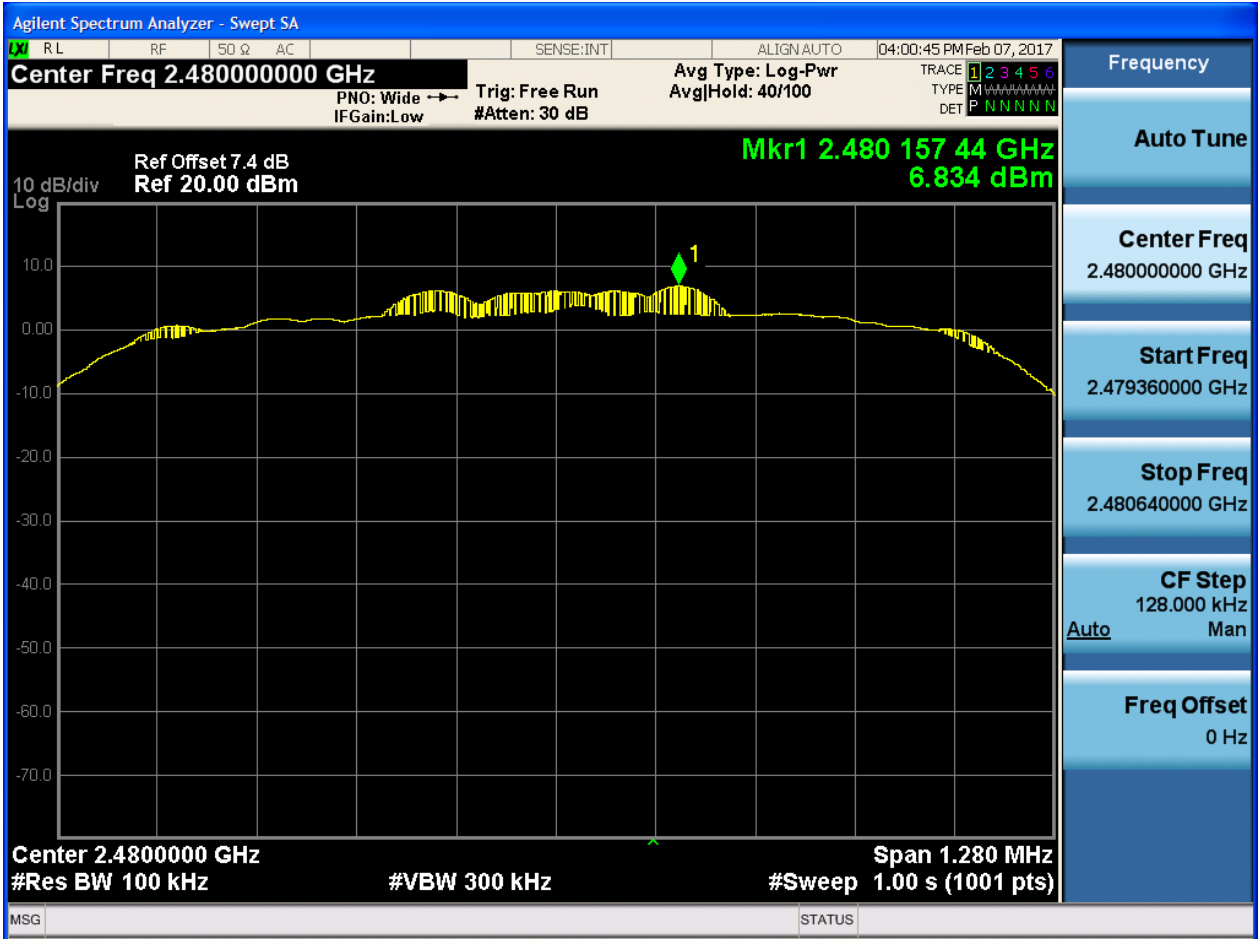






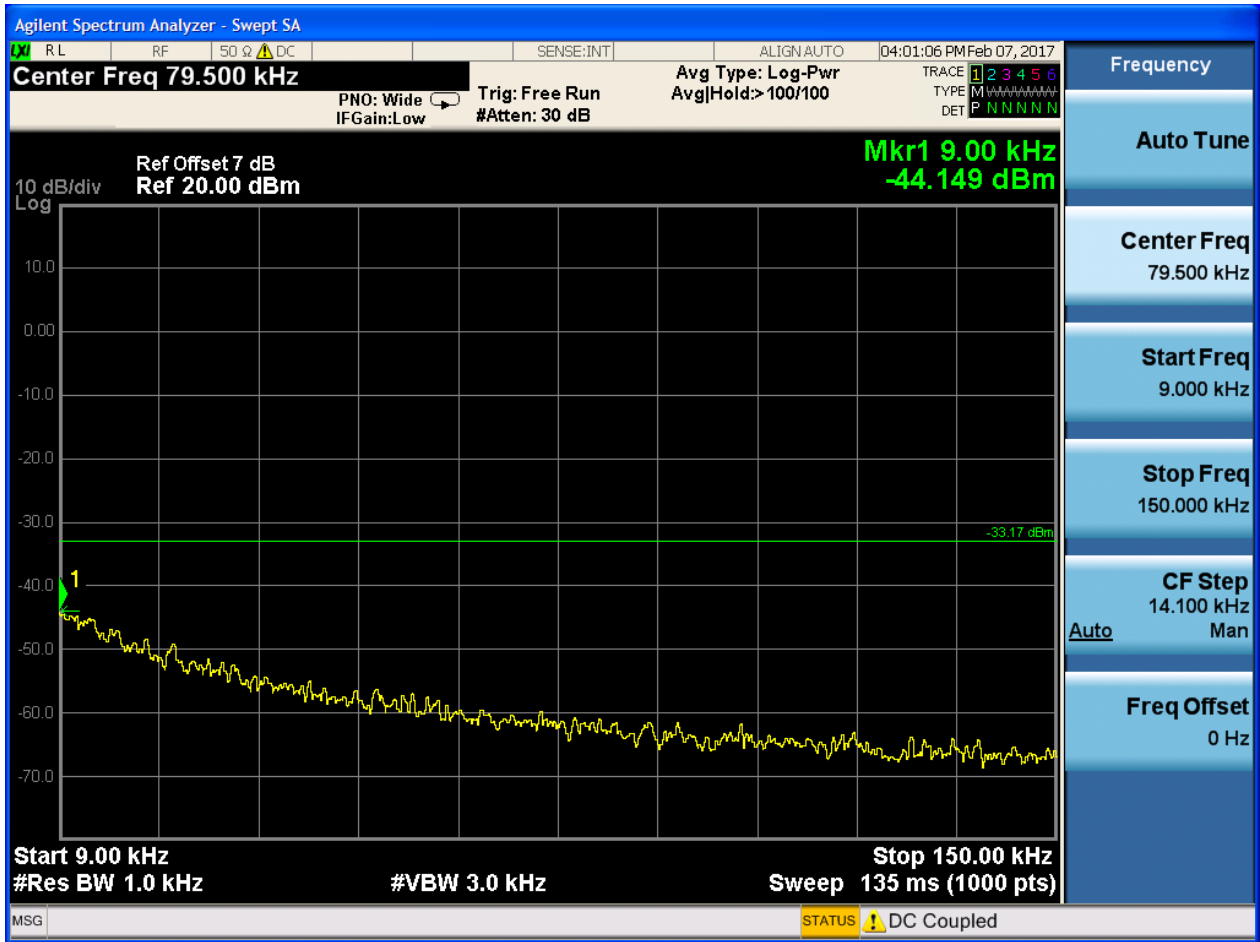
2.9 TM3_3DH5_Ch78

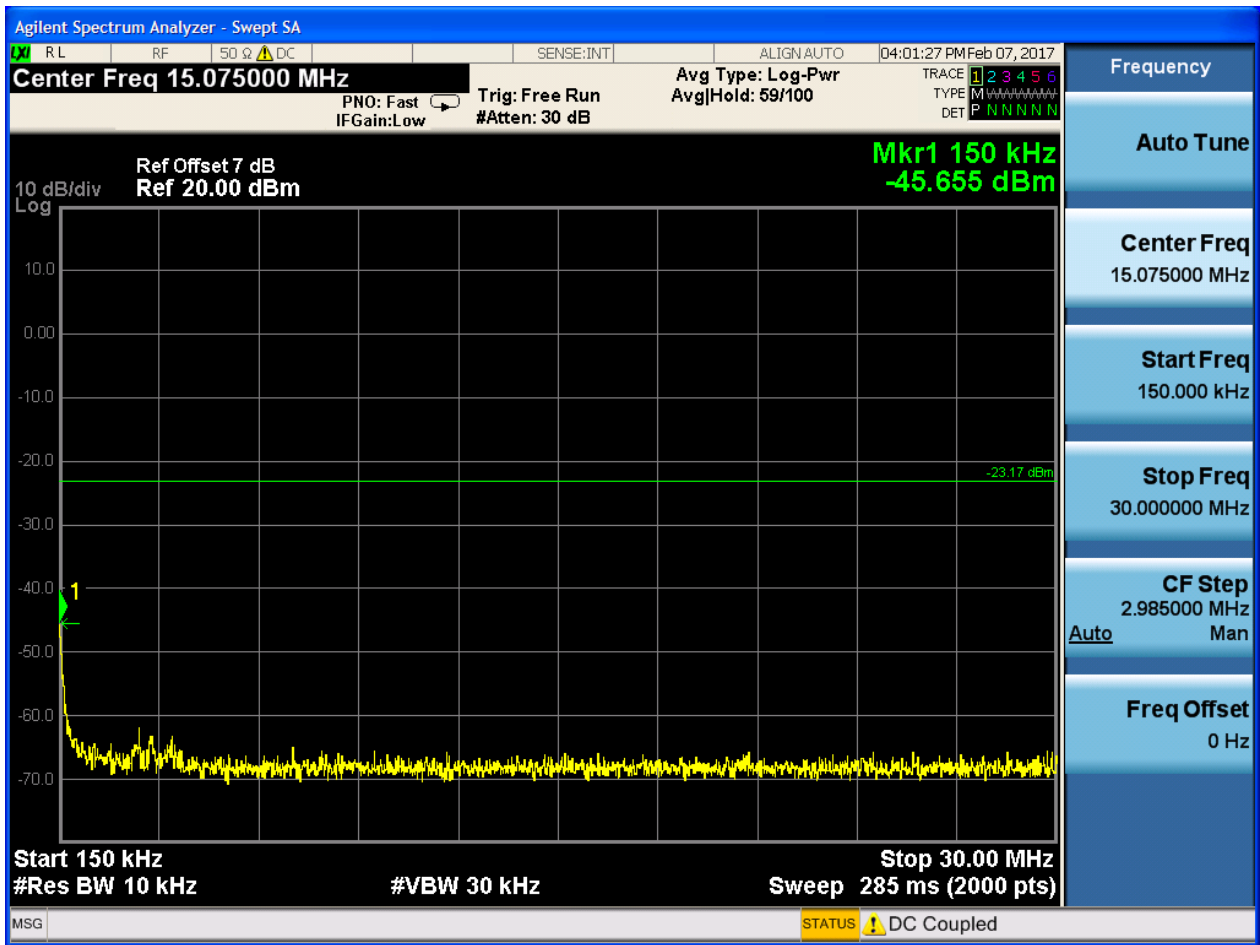
2.9.1 Pref

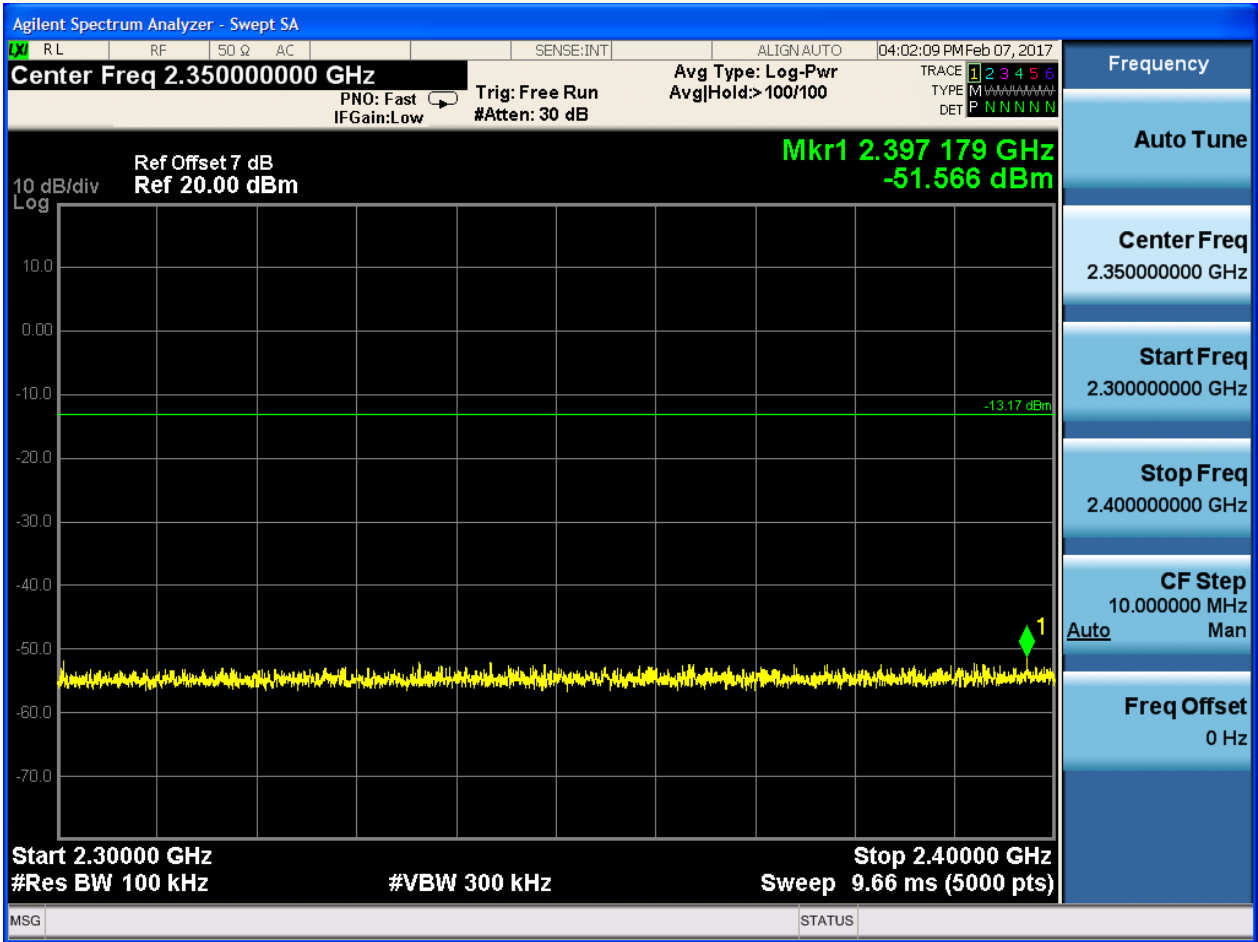


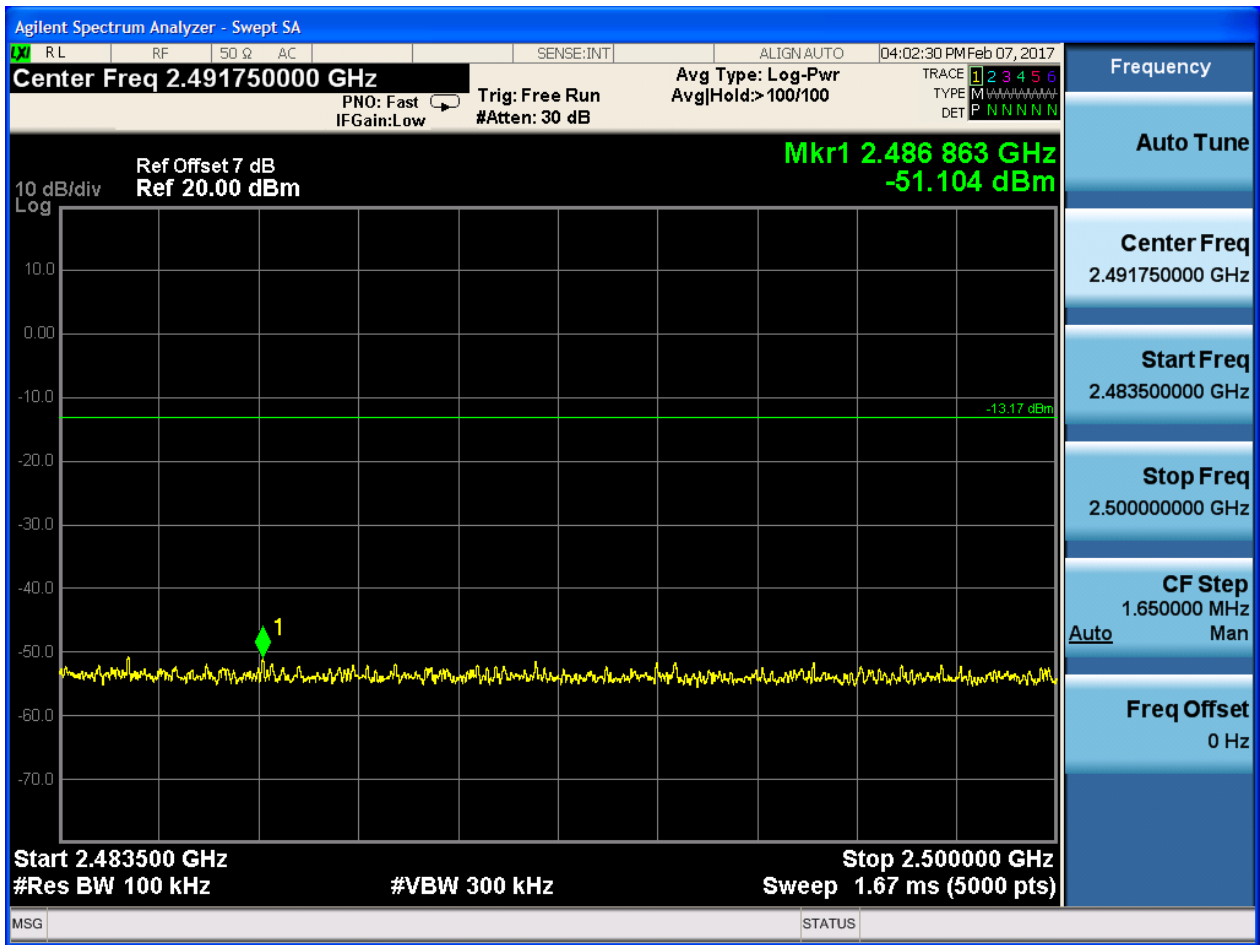


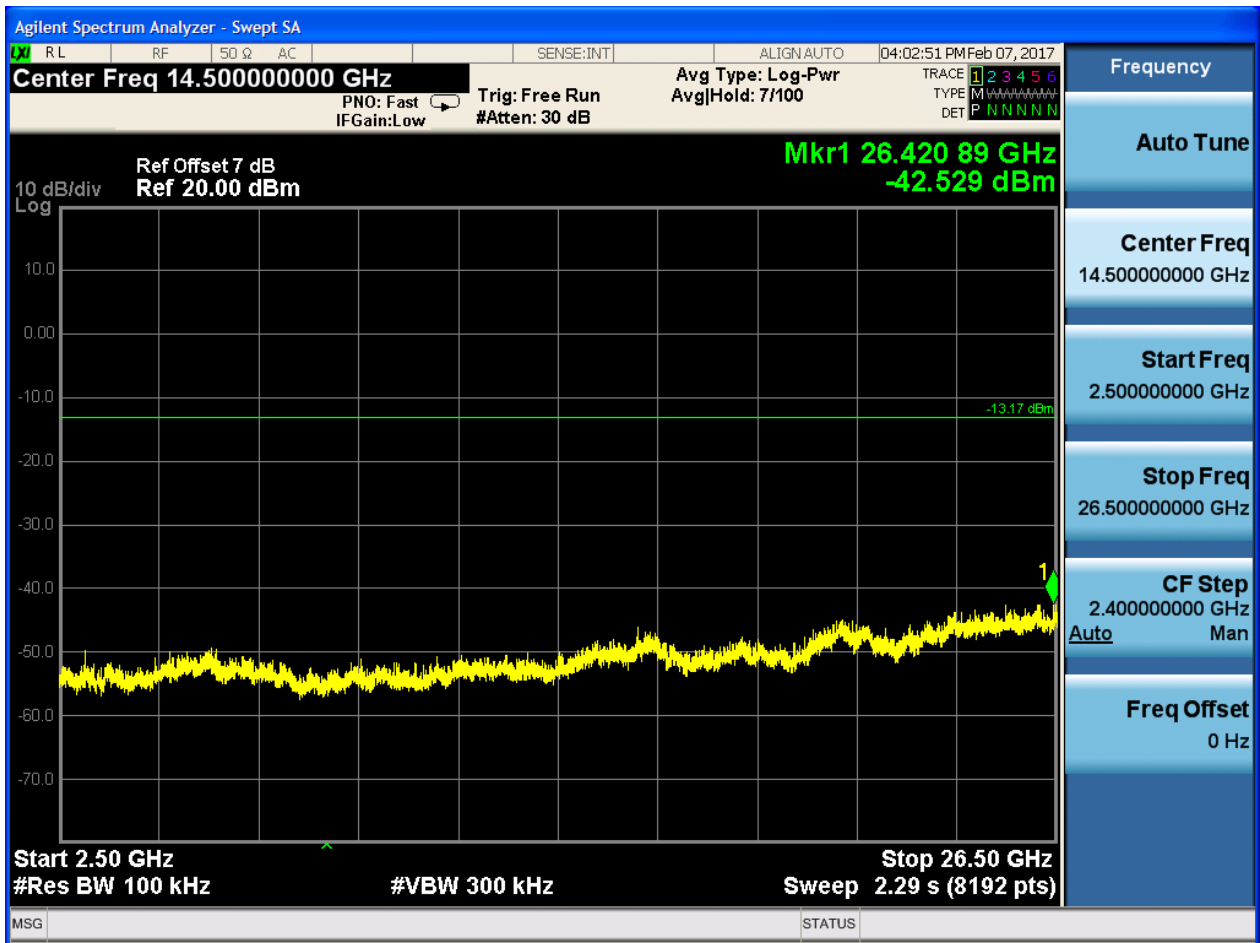
2.9.2 Puw











END