Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Wireless network card
Trade Mark: DIEWU TXIC
Test Model: TXA083
Additional Model No.: TXA076

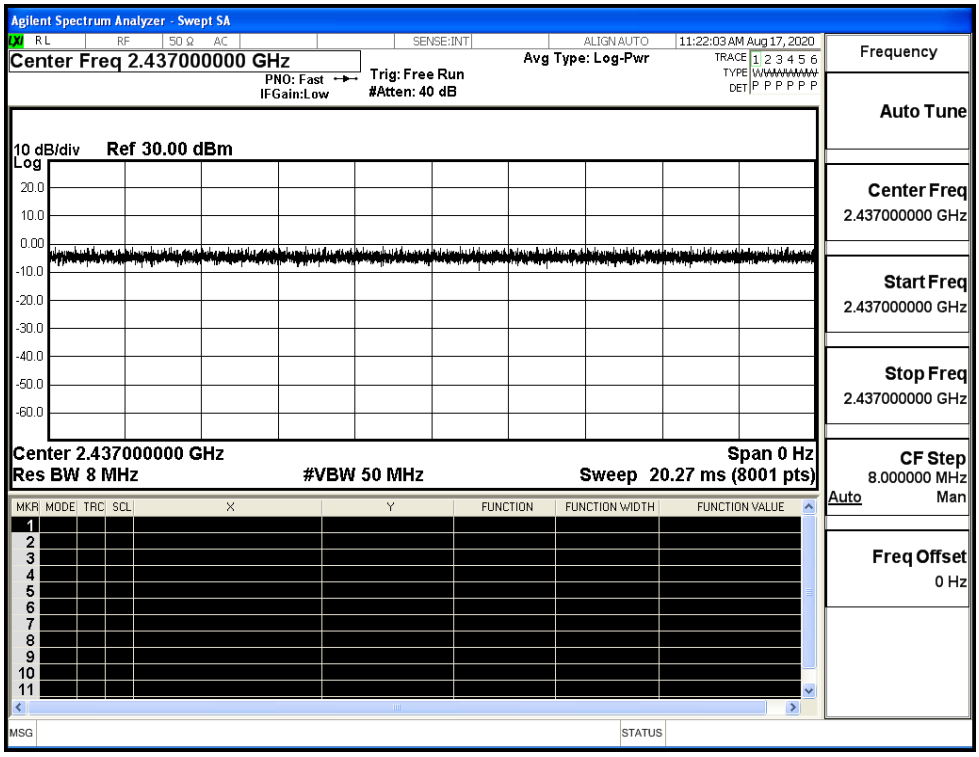
Environmental Conditions

Temperature:	23.1 ° C
Relative Humidity:	54.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

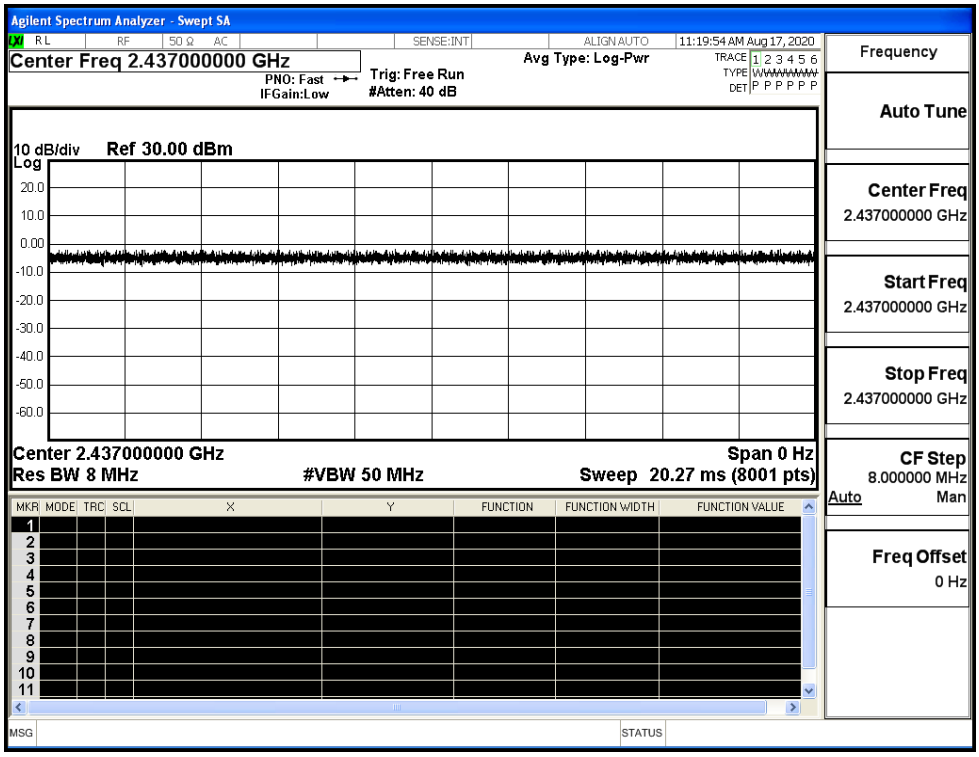
C.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant0	100	PASS
11G	2437	Ant0	100	PASS
11N20	2437	Ant0	100	PASS
11N40	2437	Ant0	100	PASS
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20	2437	Ant1	100	PASS
11N40	2437	Ant1	100	PASS

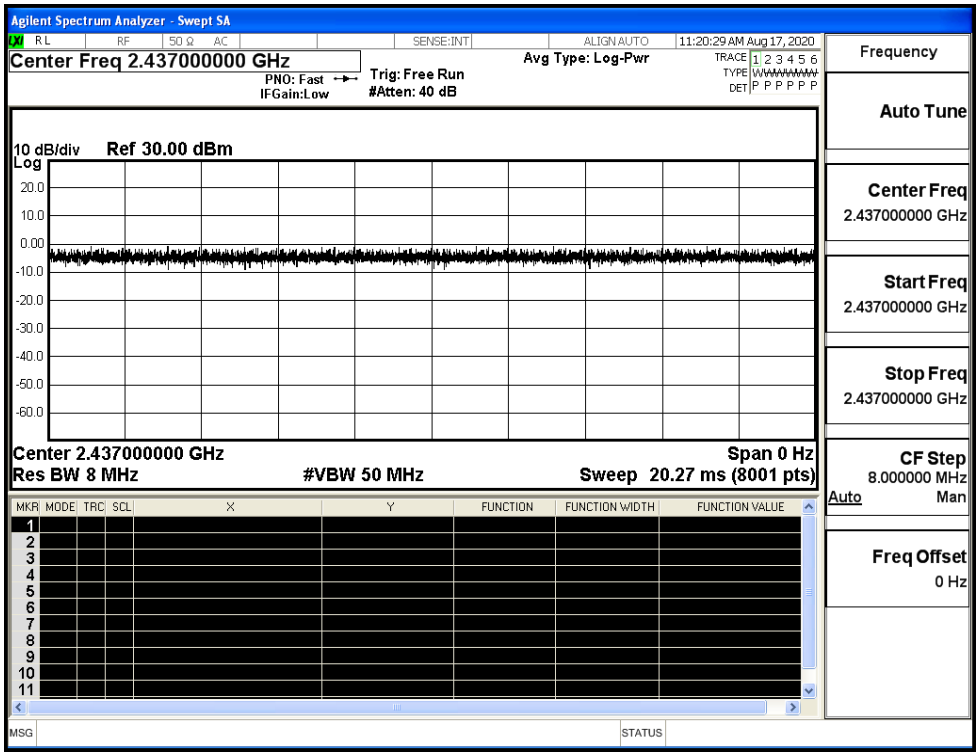
Duty Cycle_11B_2437_Ant0



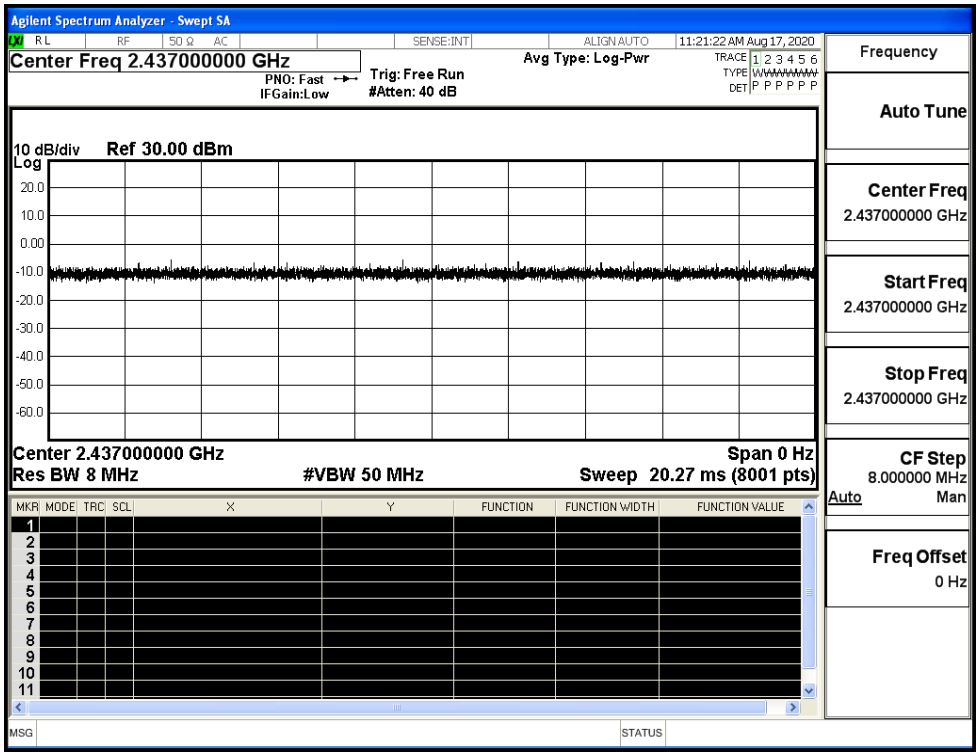
Duty Cycle_11G_2437_Ant0



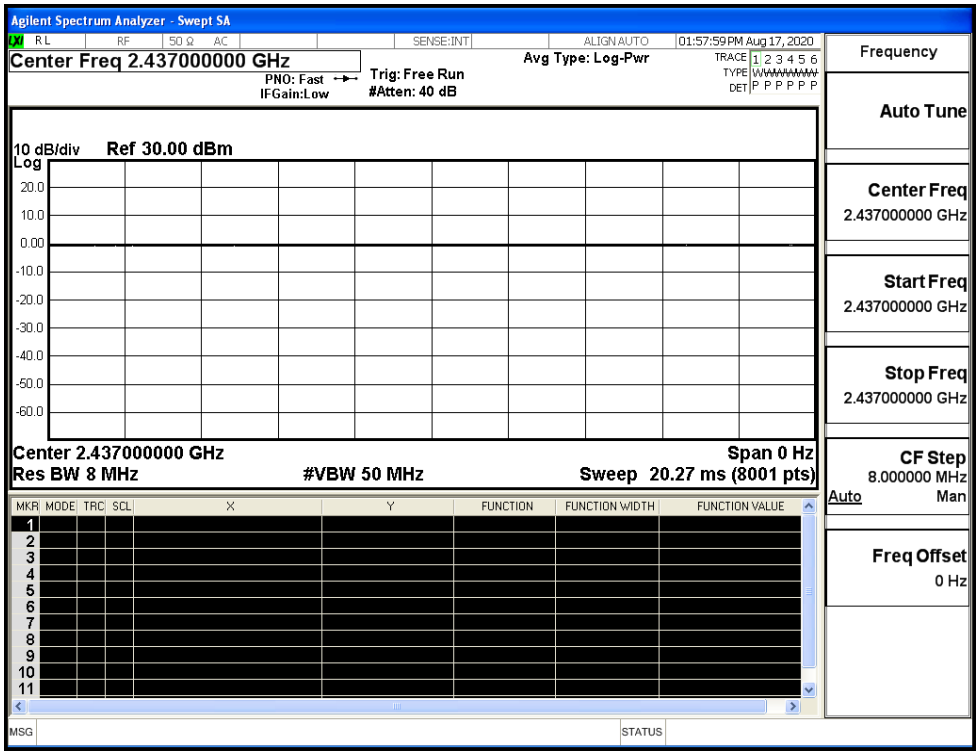
Duty Cycle_11N20 _2437_Ant0



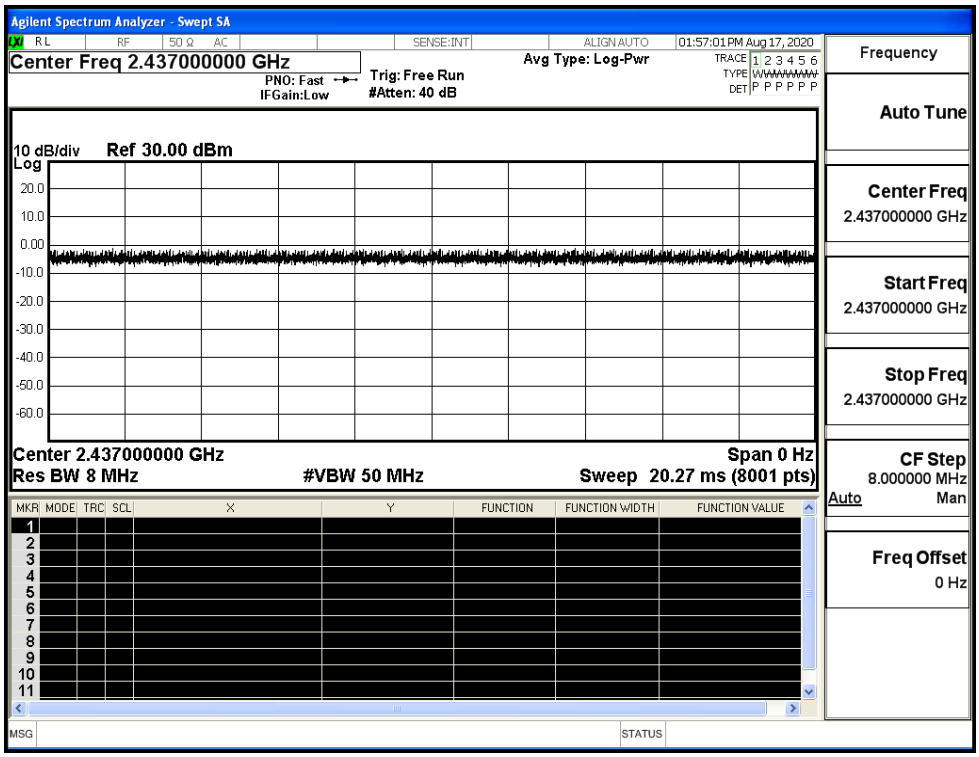
Duty Cycle_11N40 _2437_Ant0



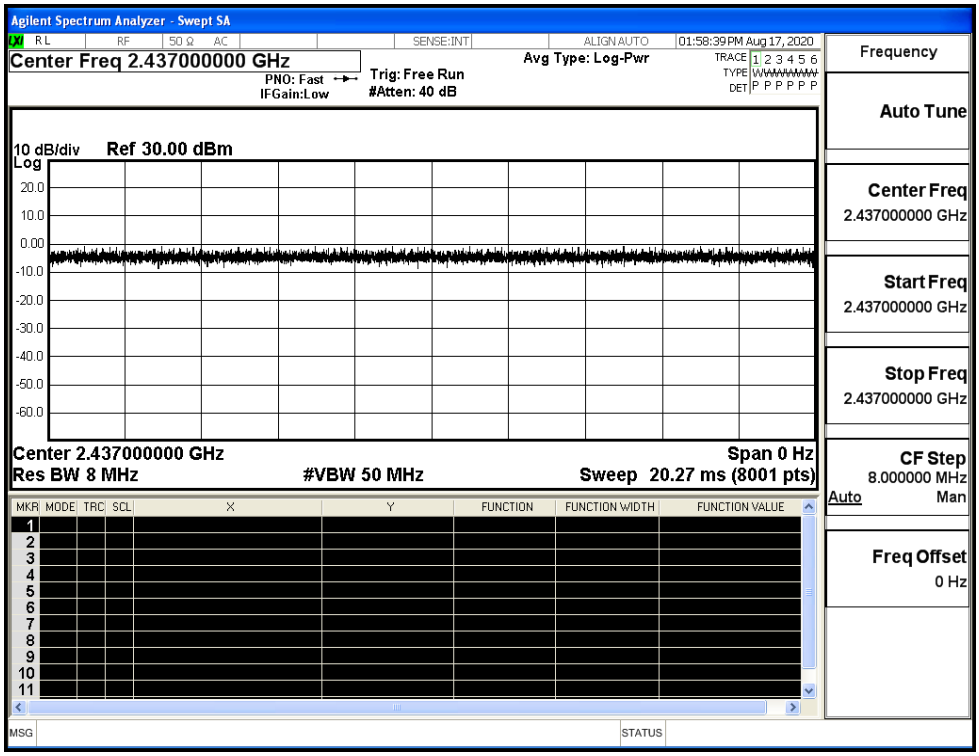
Duty Cycle_11B_2437_Ant1



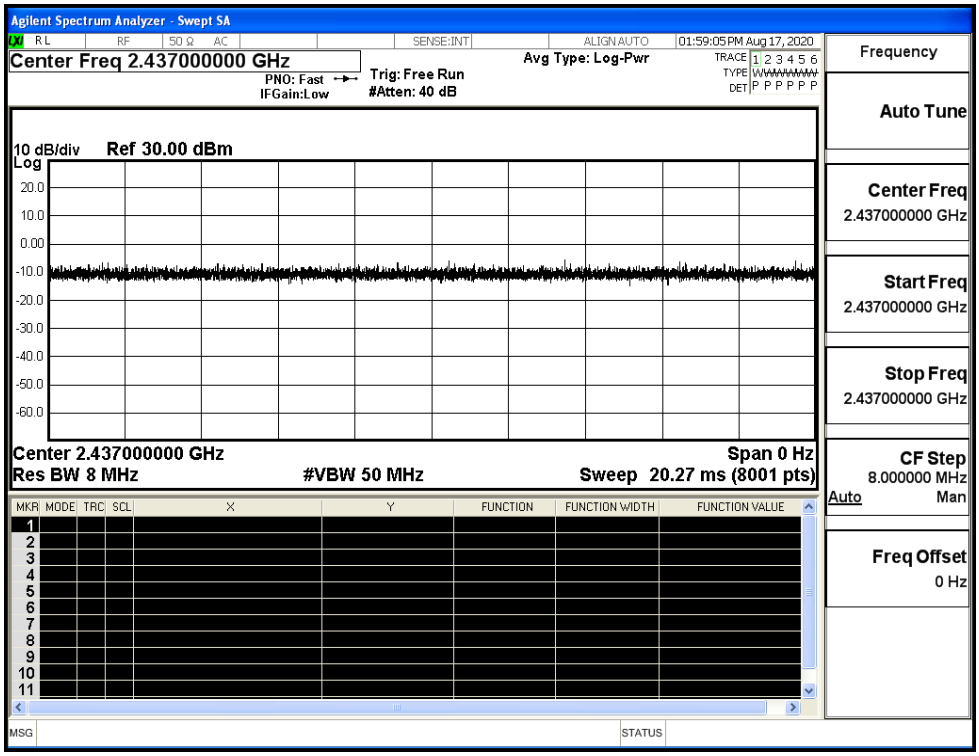
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20 _2437_Ant1



Duty Cycle_11N40 _2437_Ant1

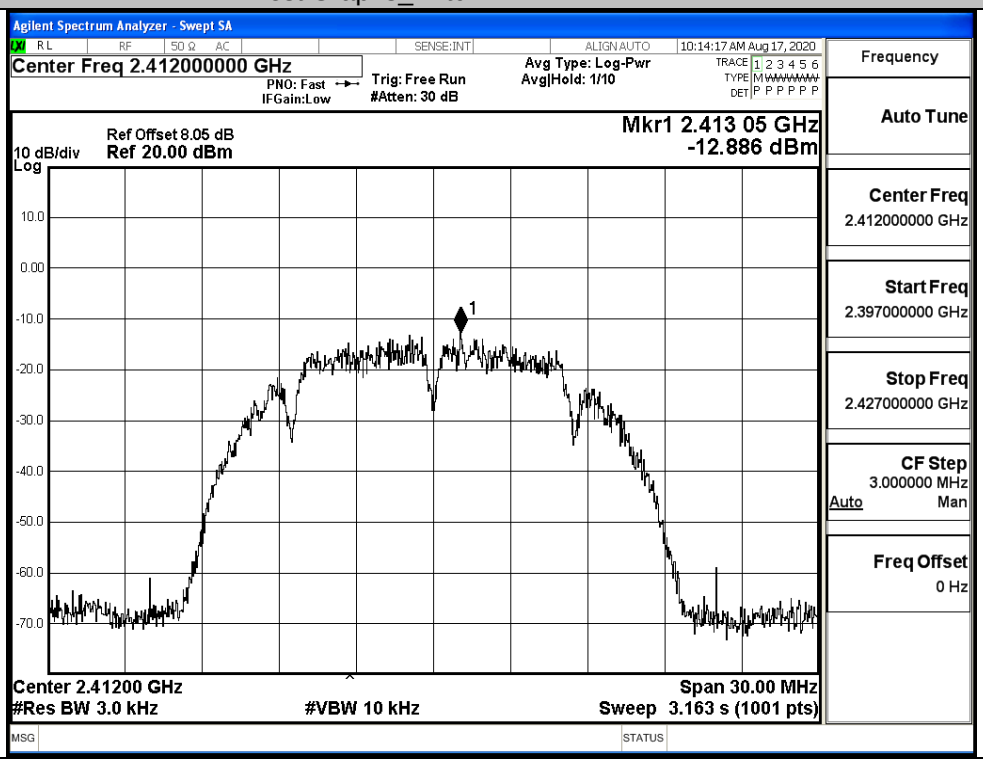


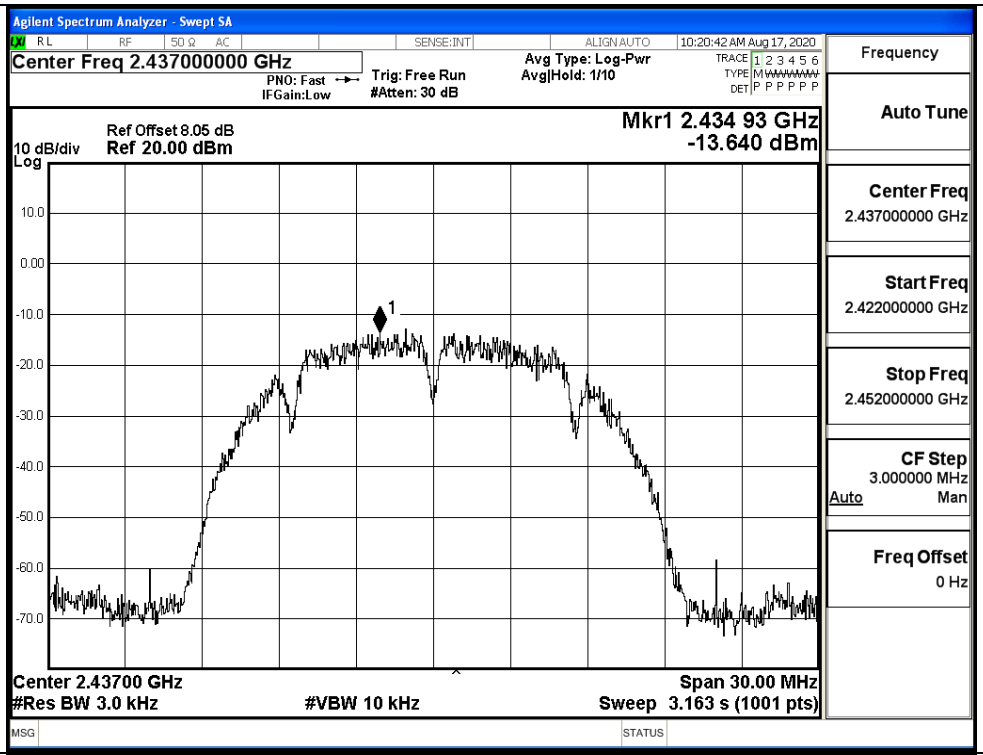
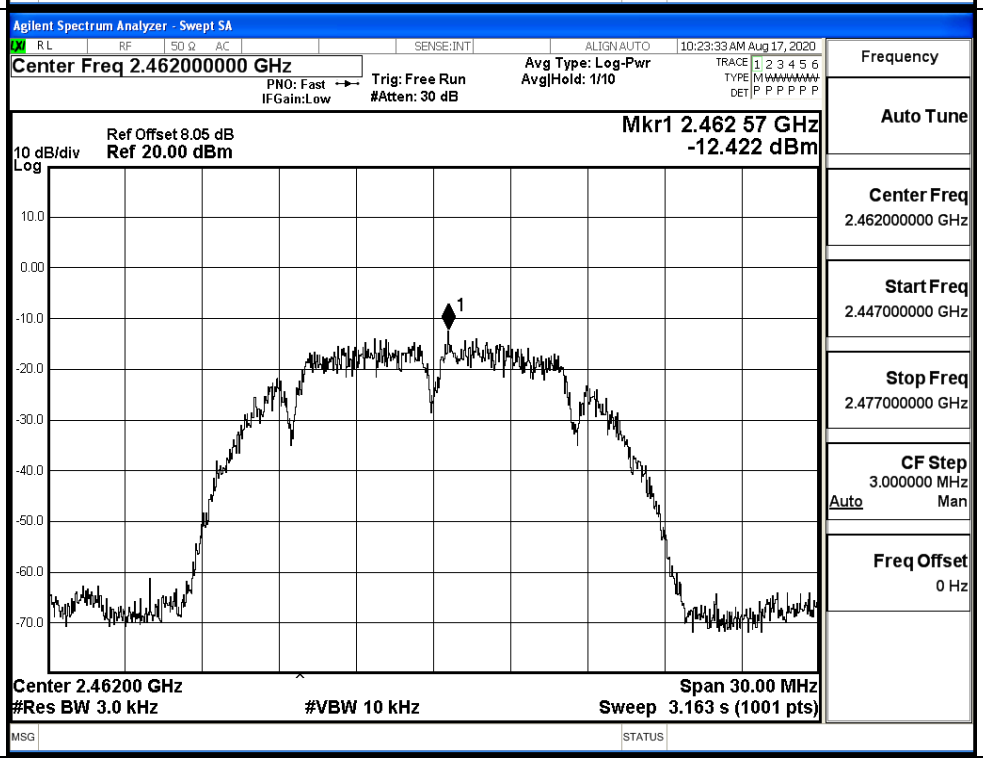
C.2 Maximum Conducted Output Power

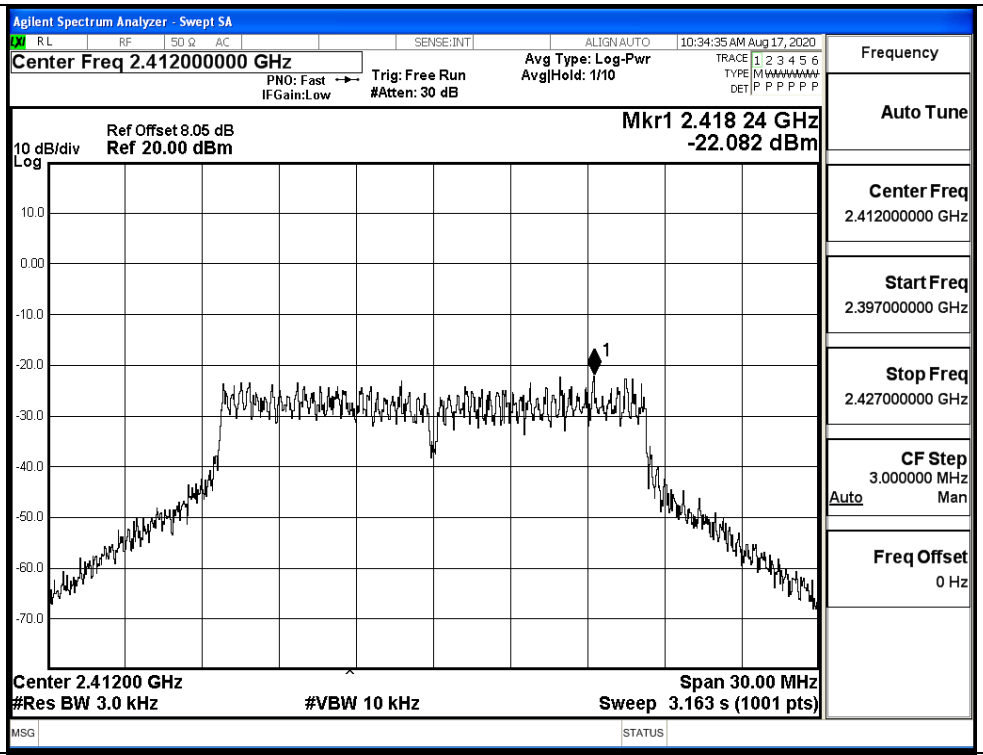
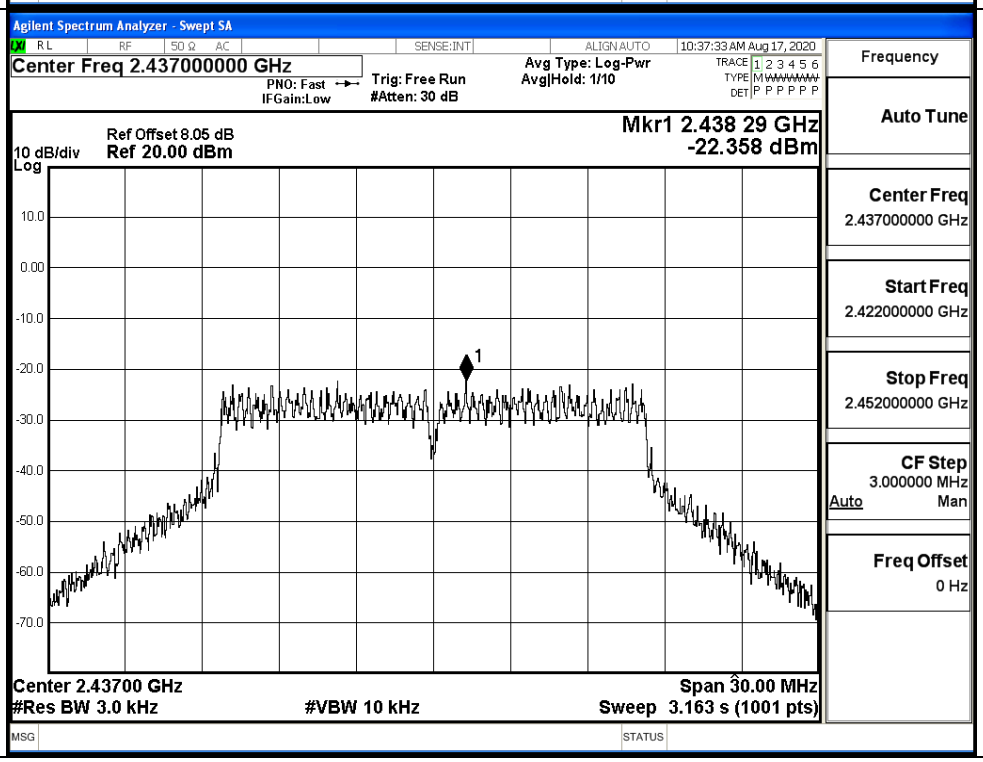
Mode	Channel	Peak Power [dBm]			Limit [dBm]	Verdict
		Ant 0	Ant 1	Sum		
11B	LCH	13.91	14.43	/	30	PASS
	MCH	13.77	13.99	/	30	PASS
	HCH	13.94	13.80	/	30	PASS
11G	LCH	12.17	13.08	/	30	PASS
	MCH	12.12	11.99	/	30	PASS
	HCH	12.42	12.01	/	30	PASS
11N20	LCH	13.05	12.37	15.73	30	PASS
	MCH	12.66	12.10	15.40	30	PASS
	HCH	12.74	12.22	15.50	30	PASS
11N40	LCH	12.28	12.07	15.19	30	PASS
	MCH	12.39	12.02	15.22	30	PASS
	HCH	12.34	11.90	15.14	30	PASS

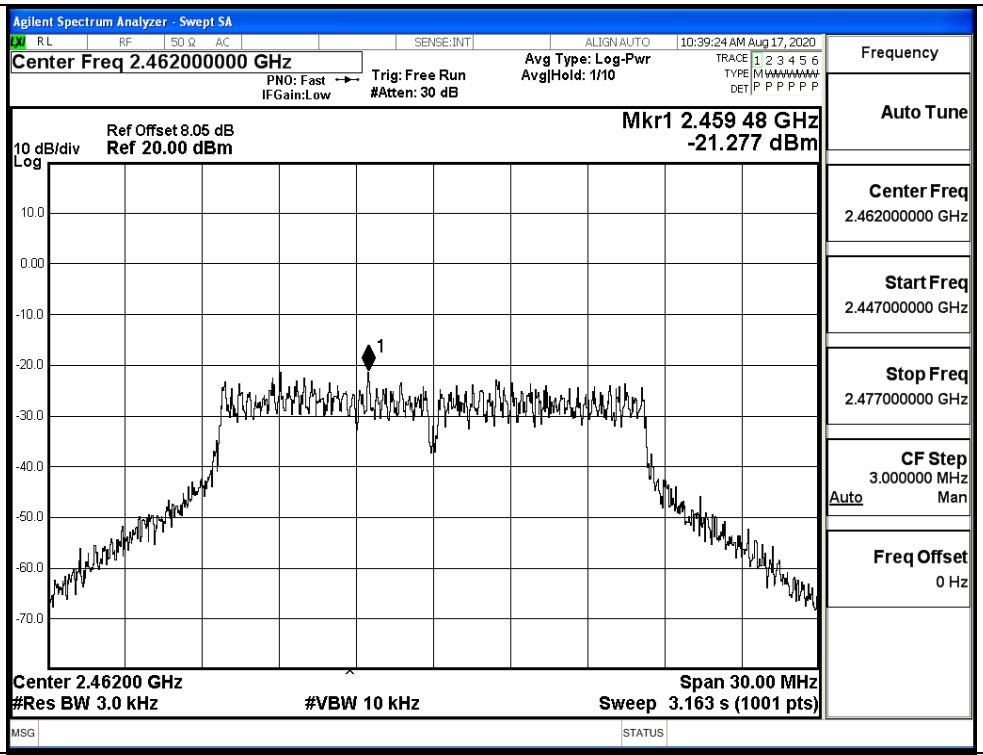
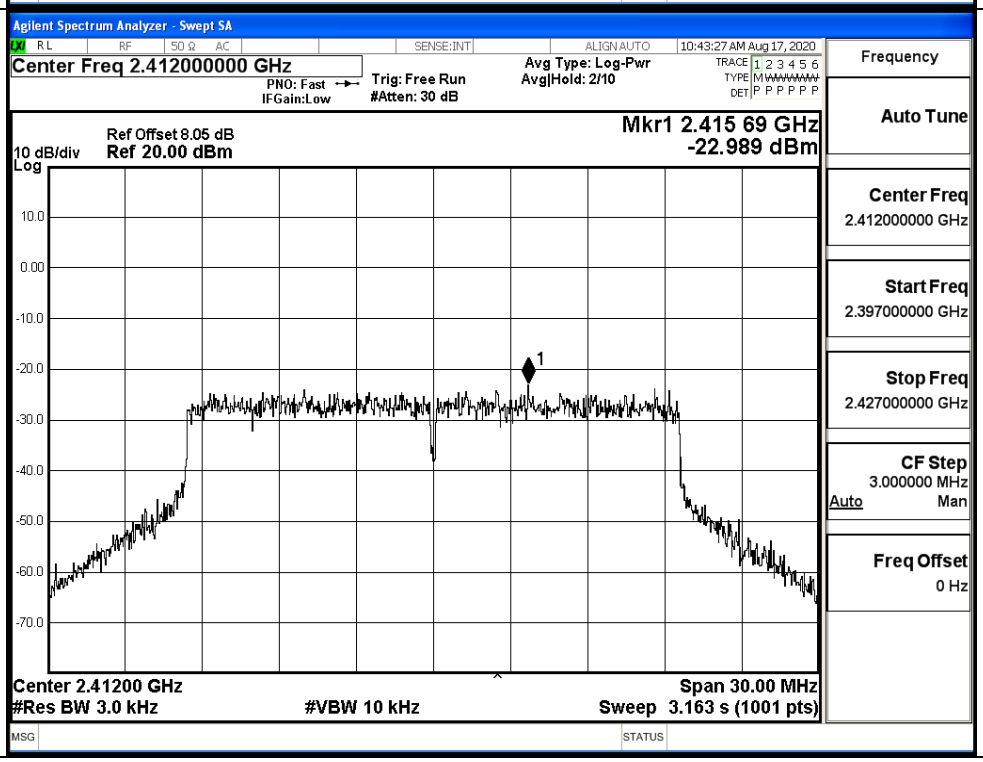
C.3 Maximum Power Spectral Density

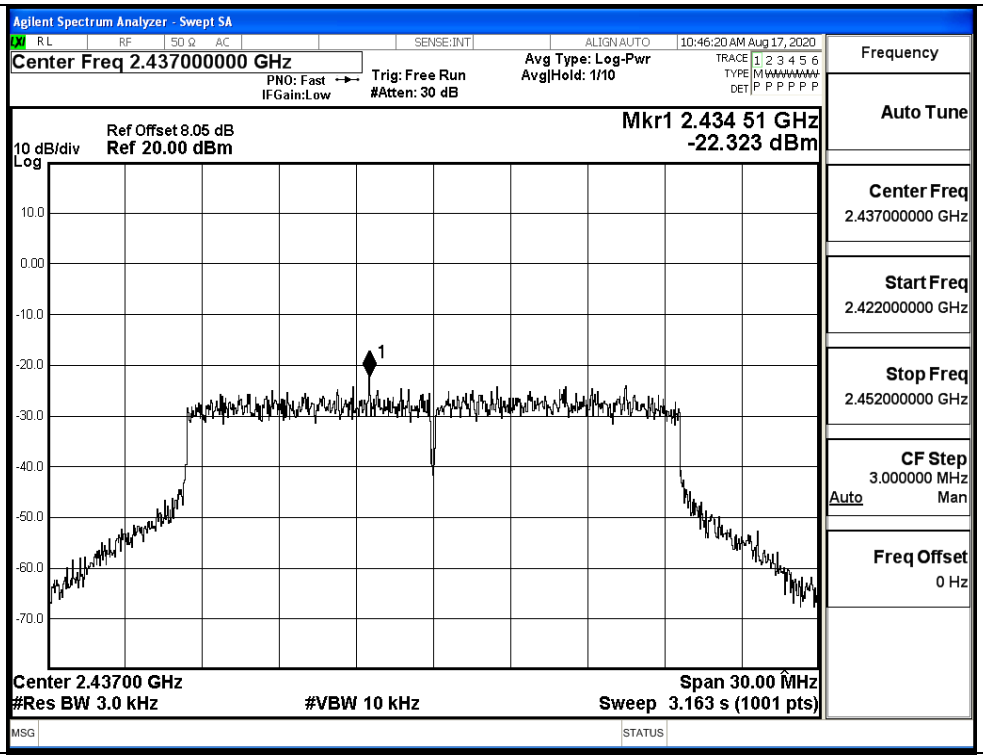
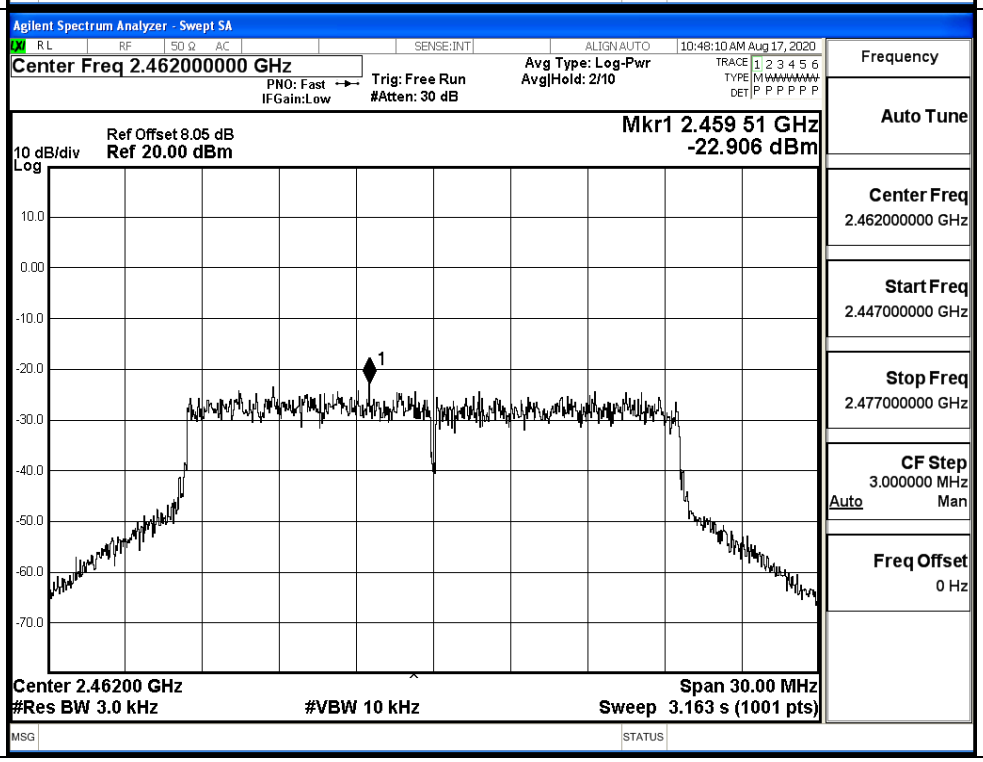
Mode	Channel	Meas.Level [dBm/3KHz]			Limit [dBm/3KHz]	Verdict
		Ant 0	Ant 1	Sum		
11B	LCH	-12.886	-12.451	/	8	PASS
	MCH	-13.640	-13.061	/	8	PASS
	HCH	-12.422	-12.798	/	8	PASS
11G	LCH	-22.082	-14.899	/	8	PASS
	MCH	-22.358	-22.035	/	8	PASS
	HCH	-21.277	-22.165	/	8	PASS
11N20	LCH	-22.989	-23.708	-20.32	5.99	PASS
	MCH	-22.323	-23.391	-19.81	5.99	PASS
	HCH	-22.906	-22.936	-19.91	5.99	PASS
11N40	LCH	-26.931	-27.257	-24.08	5.99	PASS
	MCH	-25.028	-26.929	-22.87	5.99	PASS
	HCH	-27.216	-27.384	-24.29	5.99	PASS

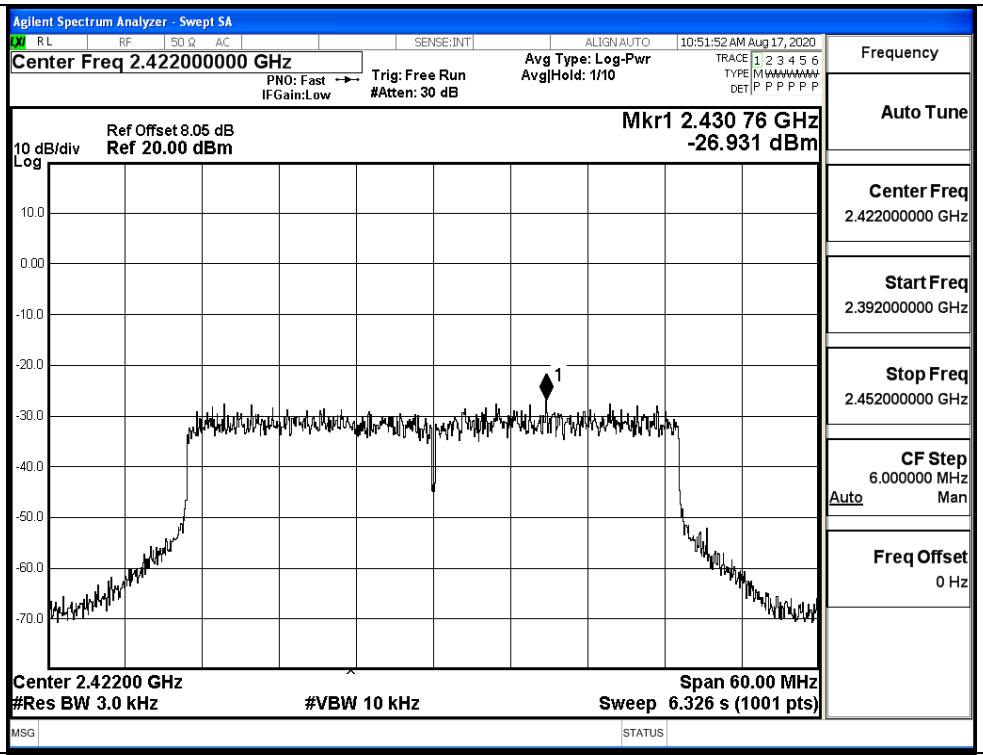
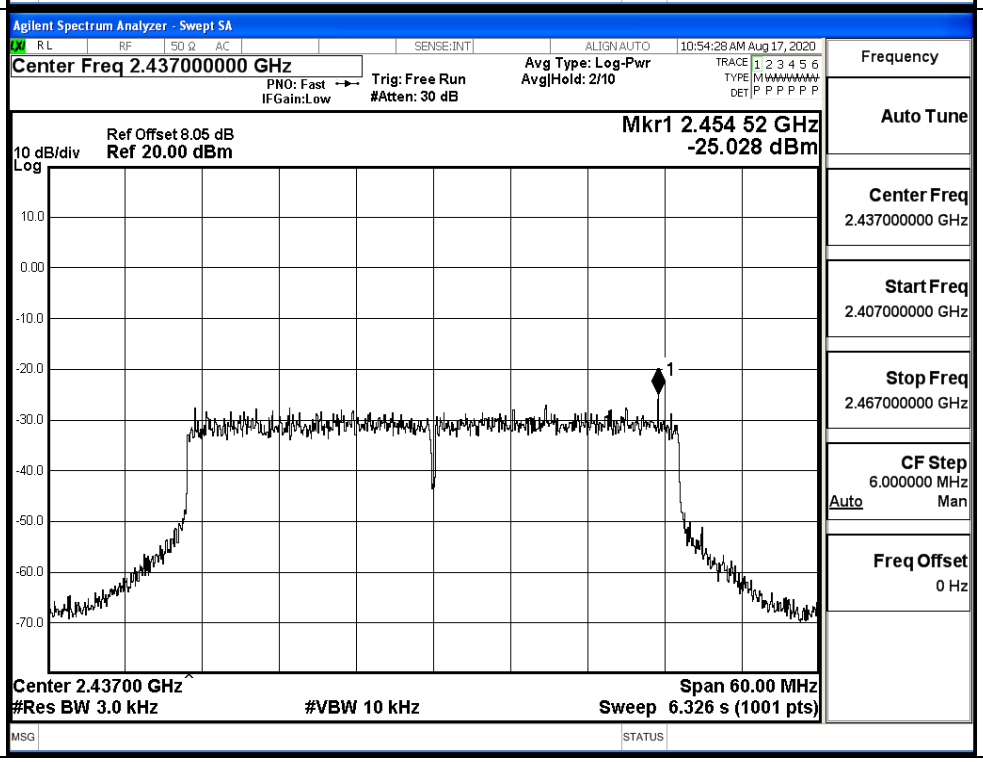
Test Graphs_Ant0	
11B/LCH	

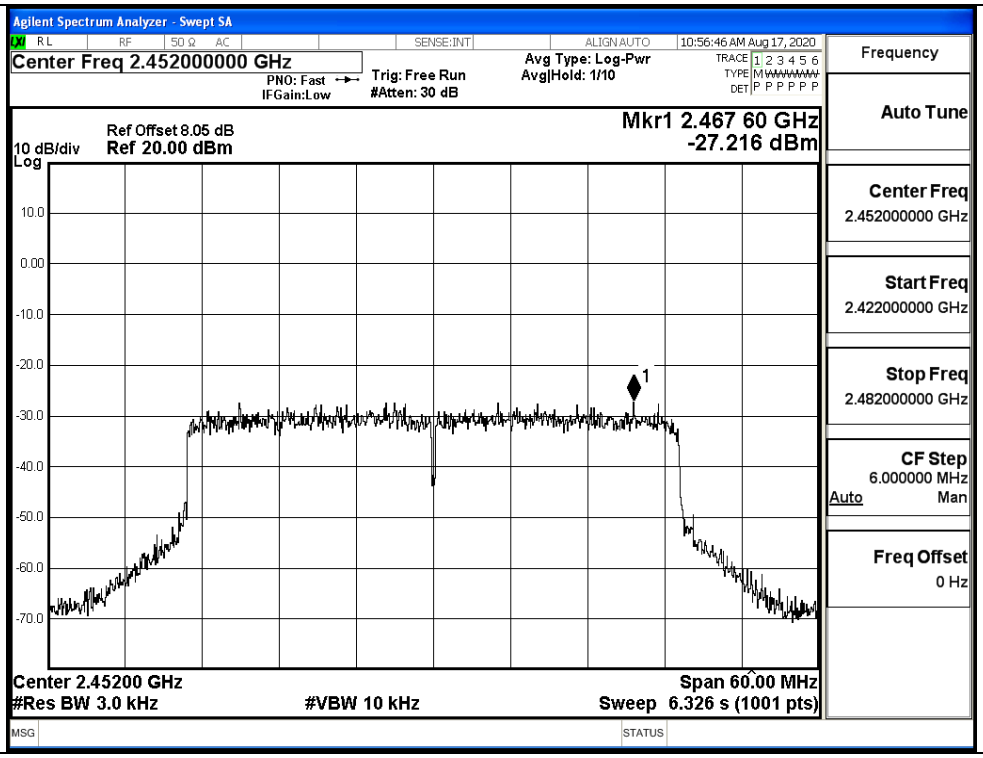
11B/MCH		
11B/HCH		

11G/LCH		
11G/MCH		

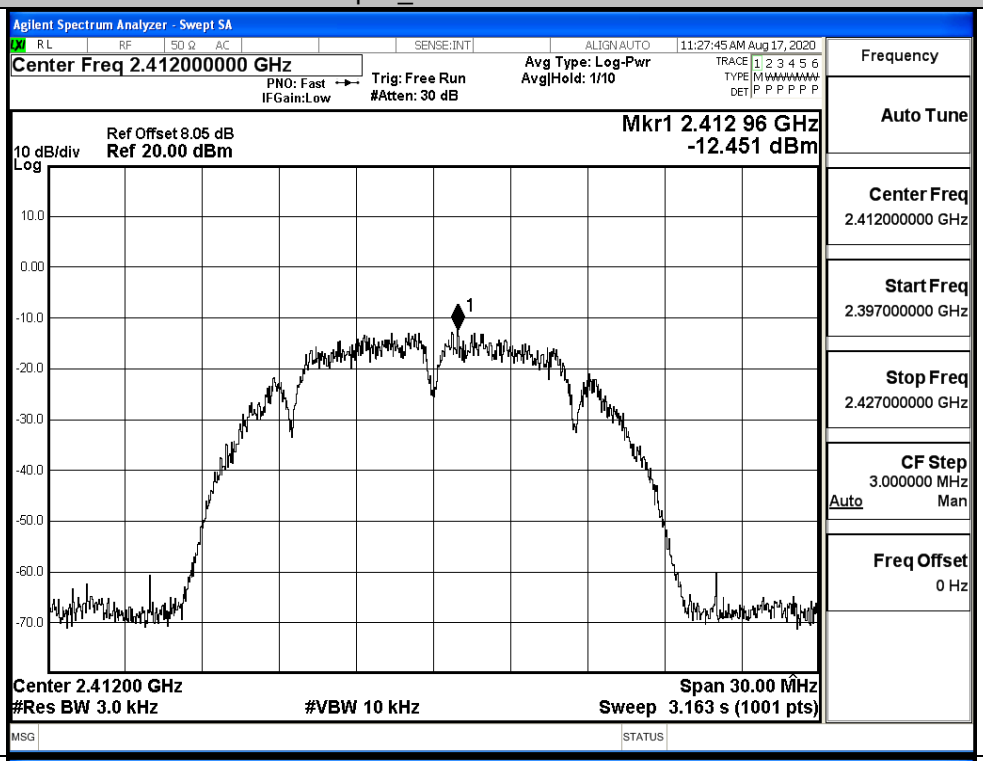
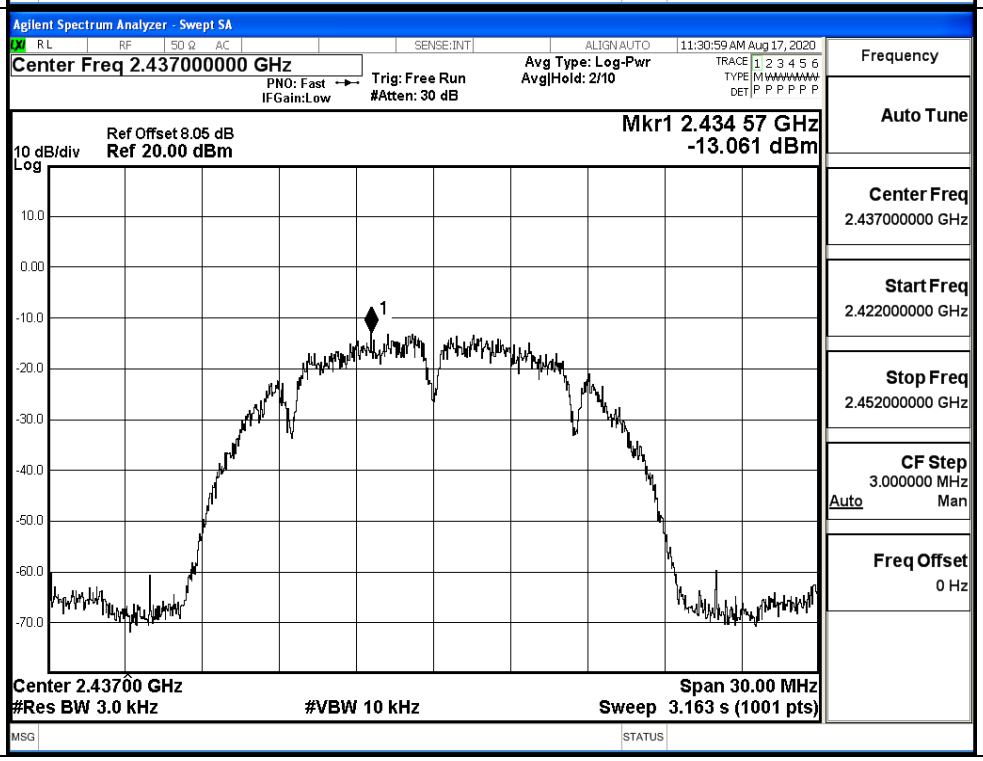
11G/HCH		
11N20 /LCH		

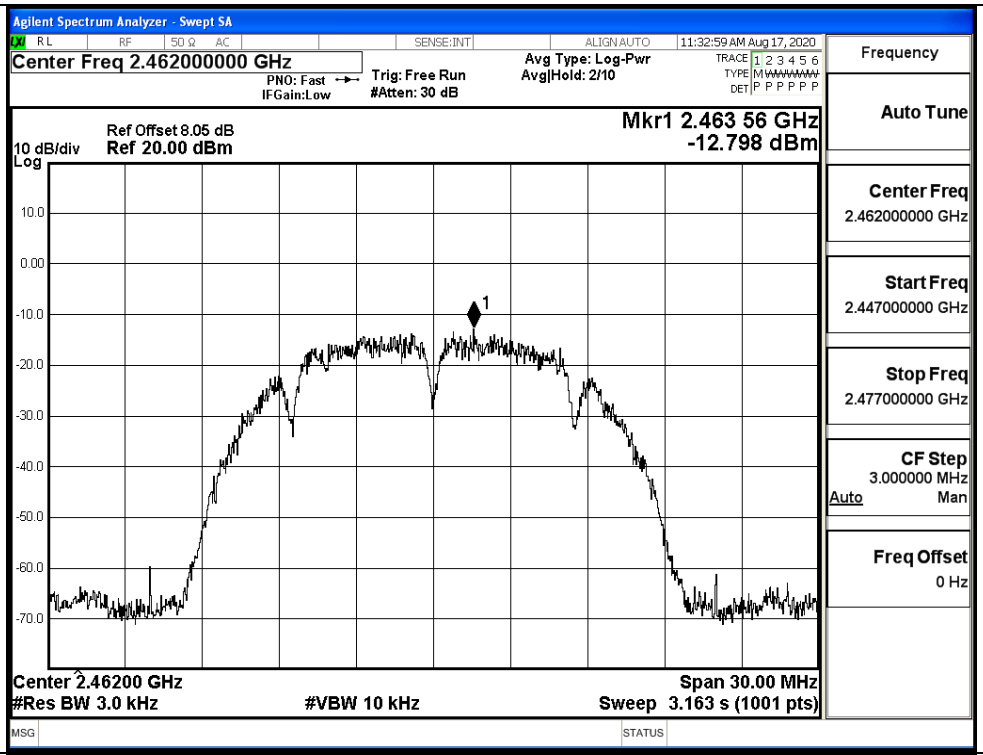
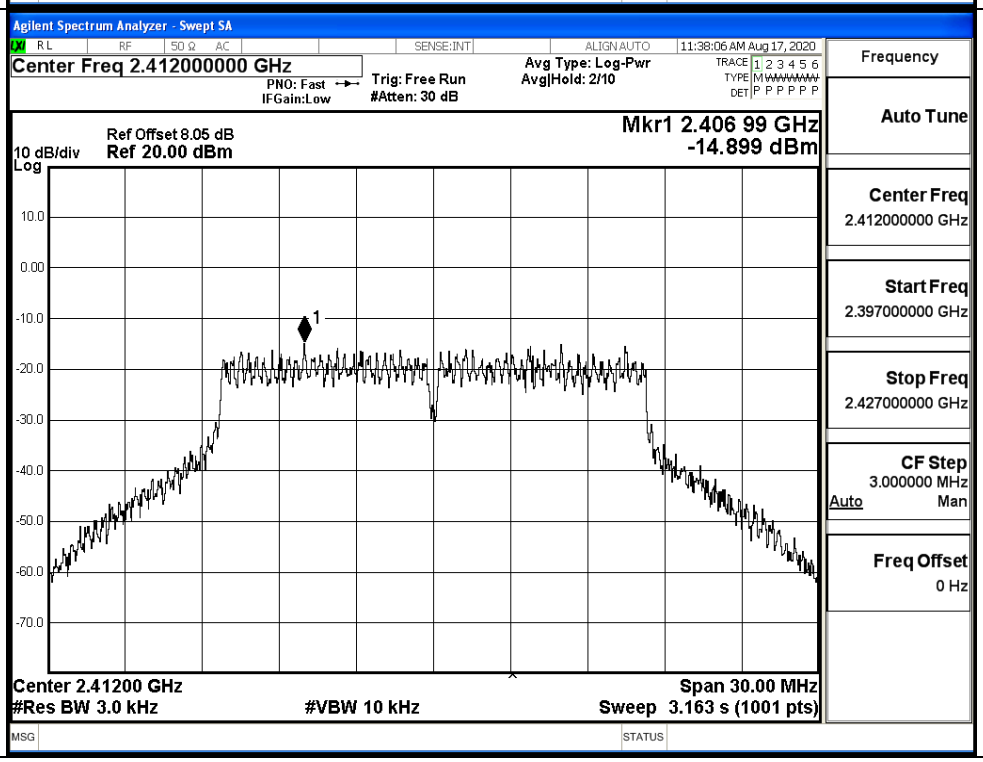
11N20 /MCH		
11N20 /HCH		

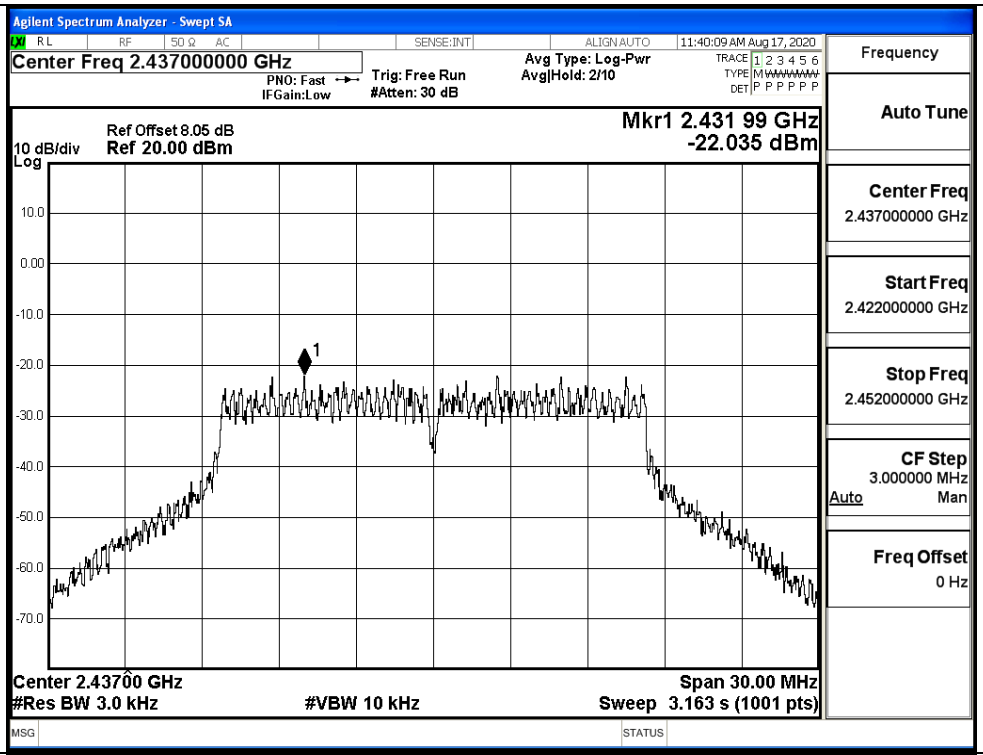
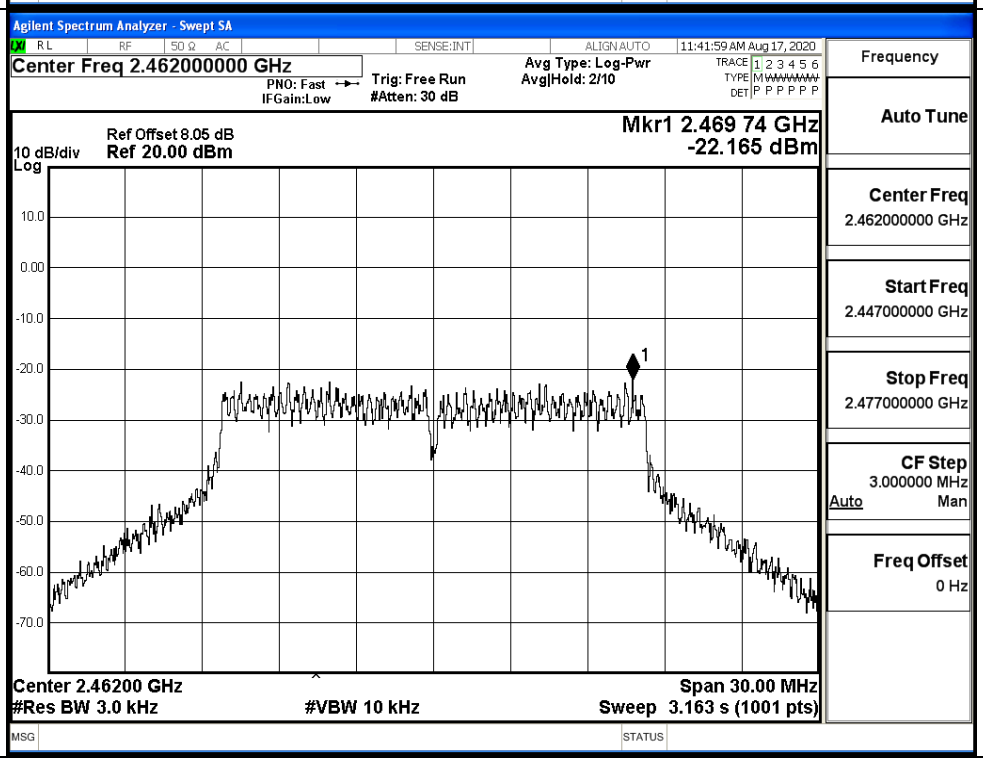
11N40 /LCH		
11N40 /MCH		

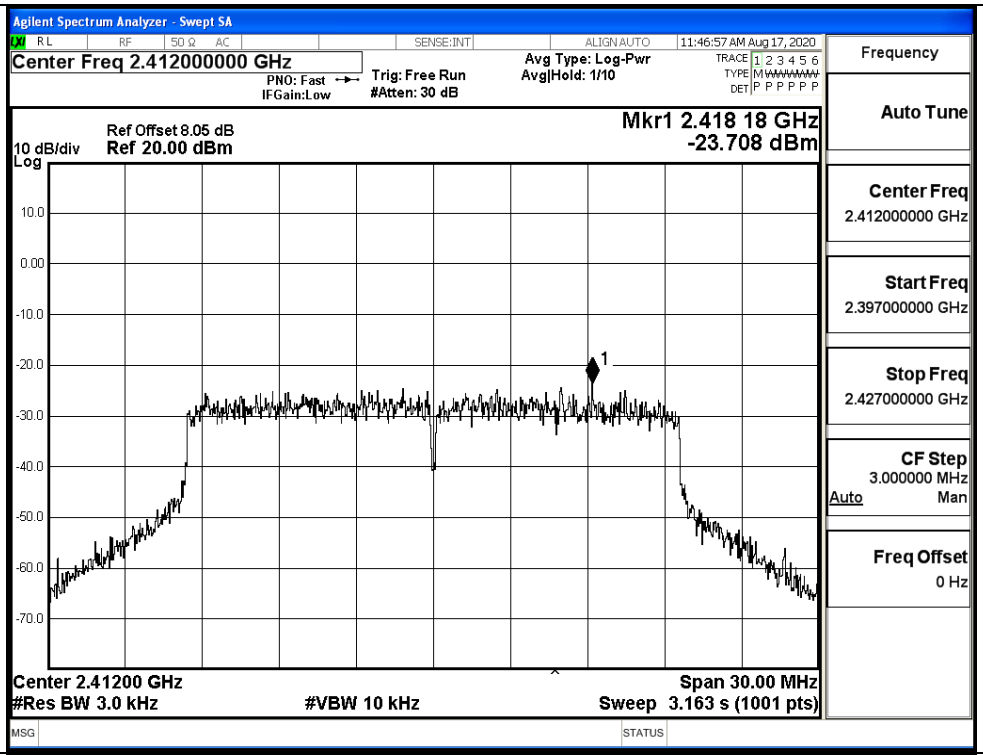
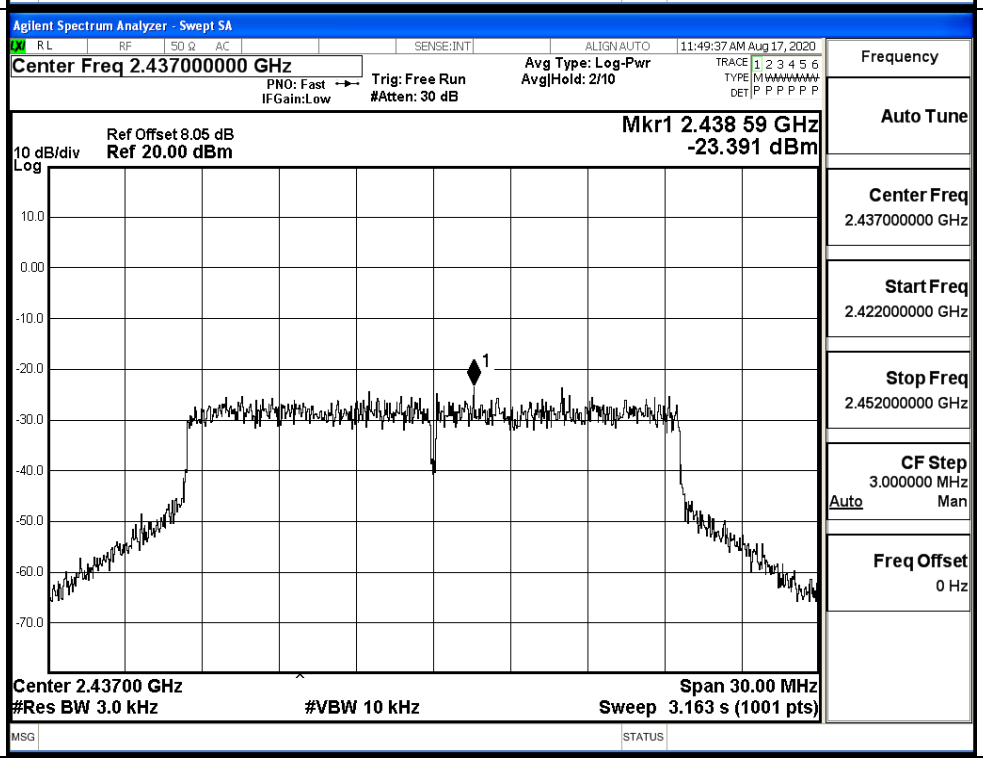
11N40 /HCH		

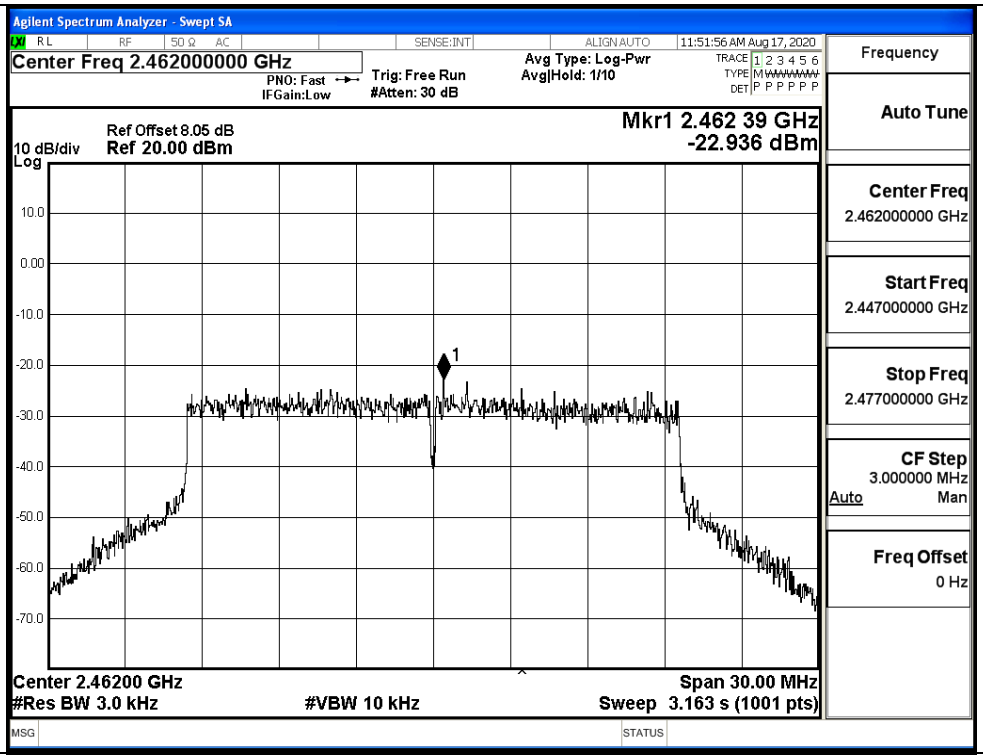
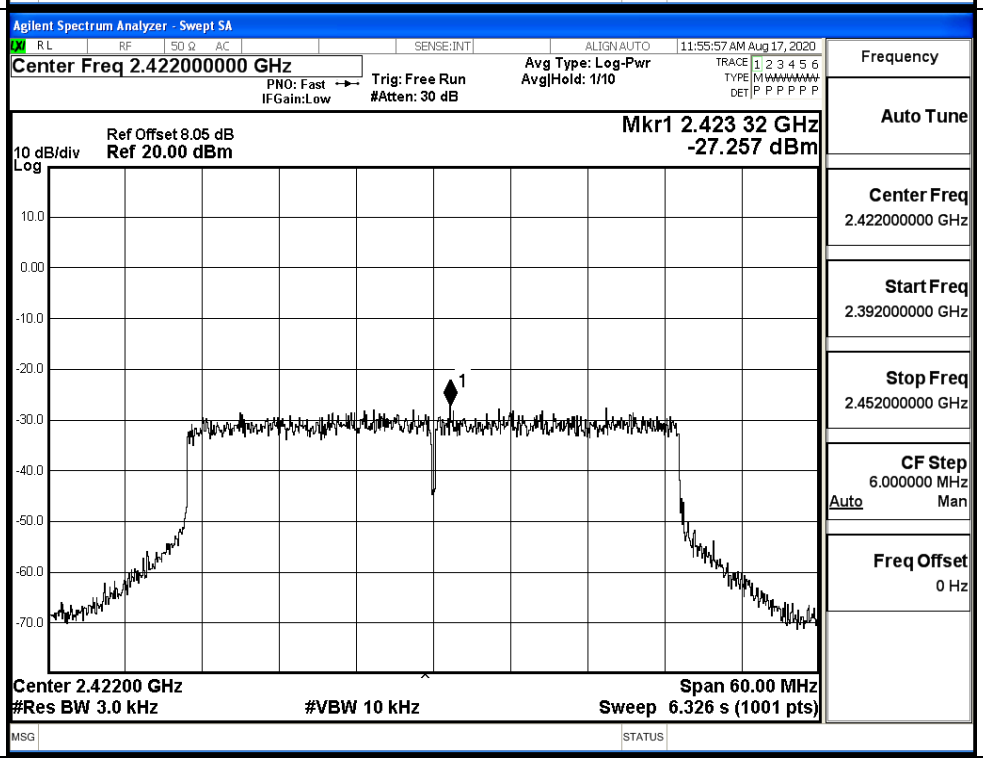
Agilent Spectrum Analyzer - Swept SA
Center Freq 2.452000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 1/10
10:56:46 AM Aug 17, 2020
Ref Offset 8.05 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 2.467 60 GHz
-27.216 dBm
Center 2.45200 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 60.00 MHz
Sweep 6.326 s (1001 pts)
Frequency
Auto Tune
Center Freq
2.452000000 GHz
Start Freq
2.422000000 GHz
Stop Freq
2.482000000 GHz
CF Step
6.000000 MHz
Auto
Man
Freq Offset
0 Hz

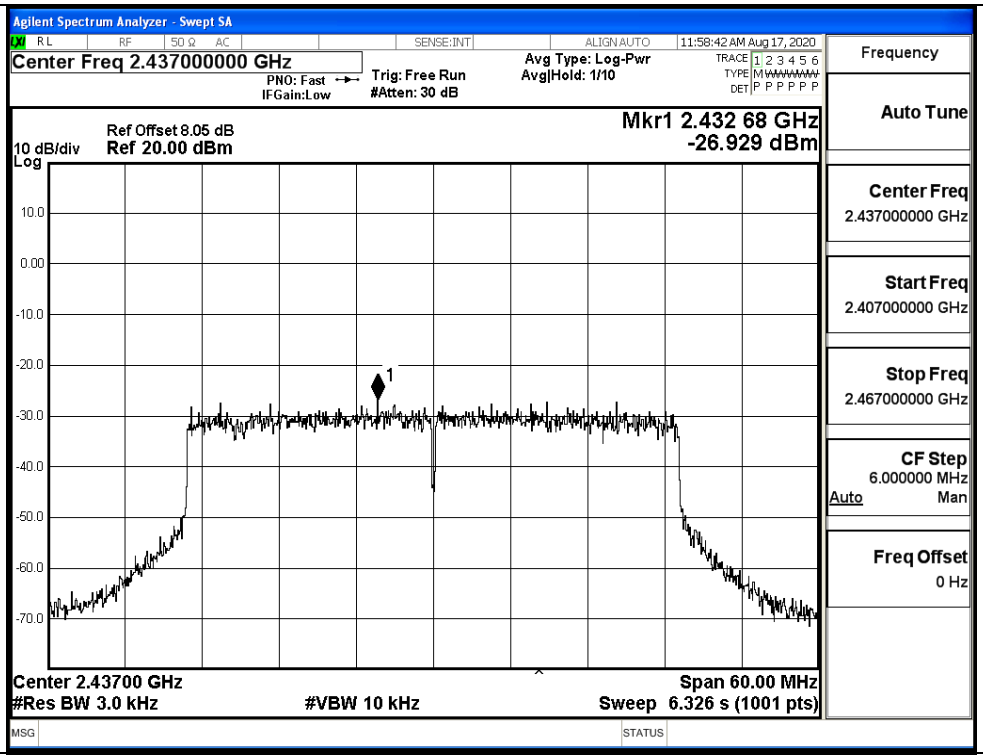
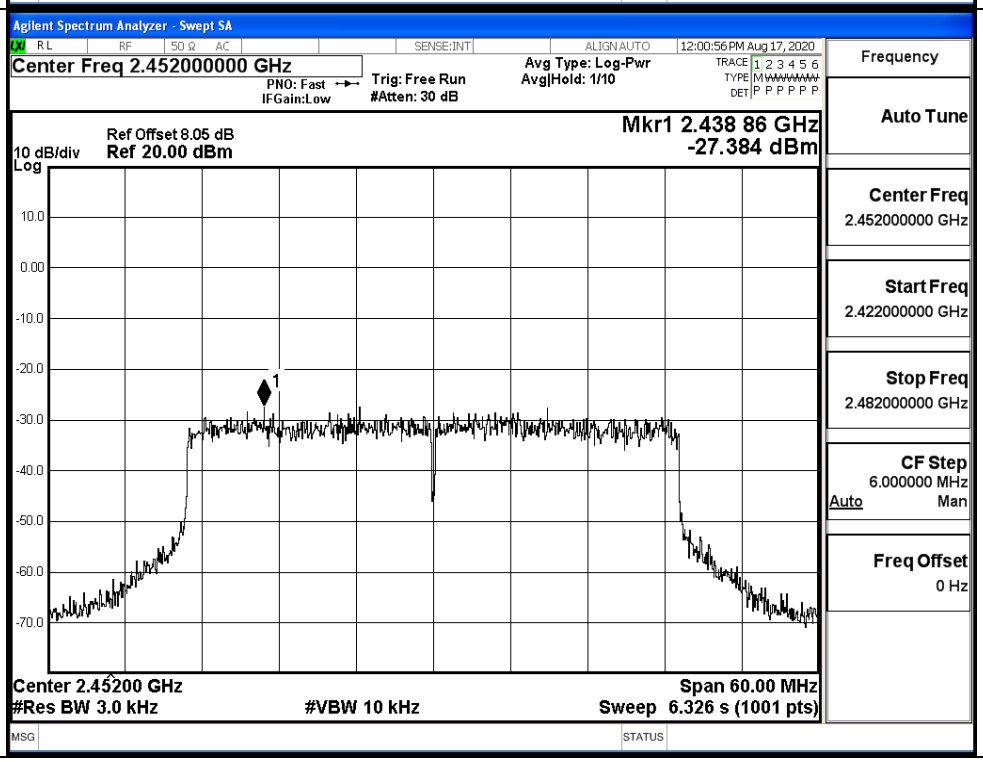
Test Graphs_Ant1	
11B/LCH	
11B/MCH	

11B/HCH		
11G/LCH		

11G/MCH		
11G/HCH		

11N20 /LCH		
11N20 /MCH		

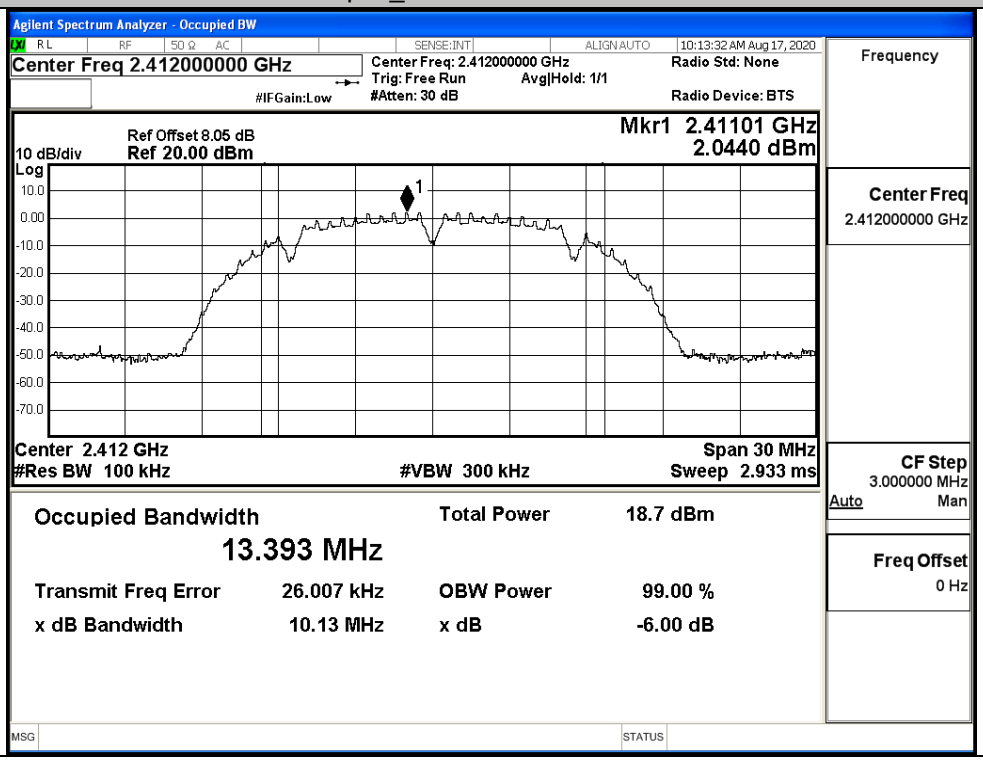
11N20 /HCH		
11N40 /LCH		

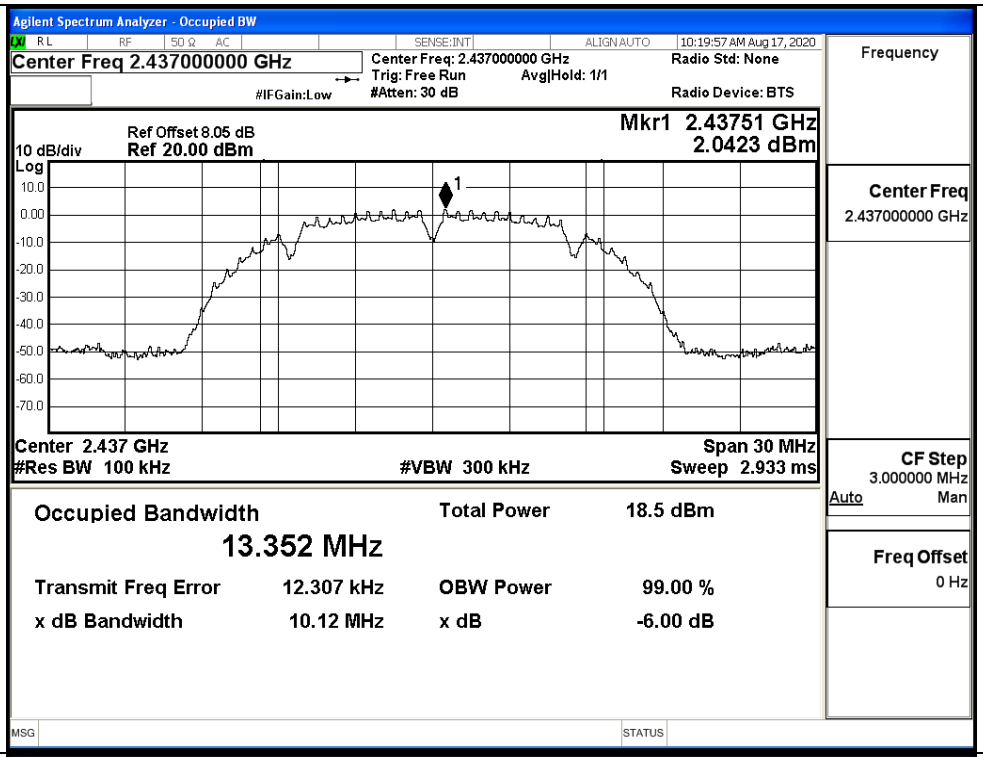
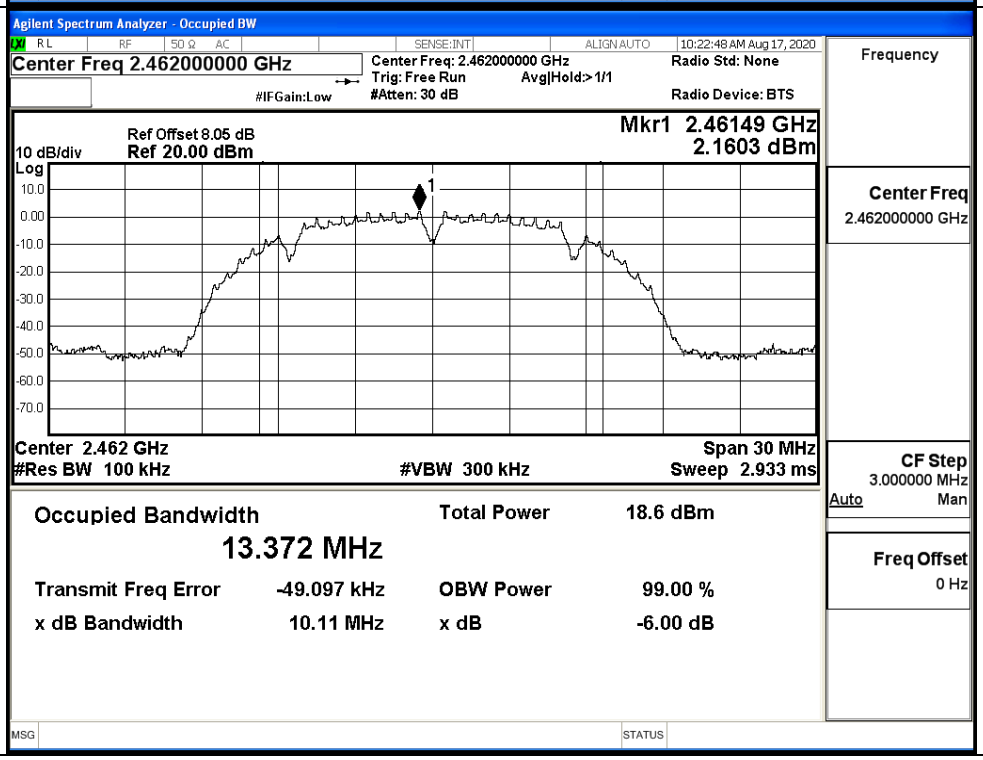
11N40 /MCH		
11N40 /HCH		

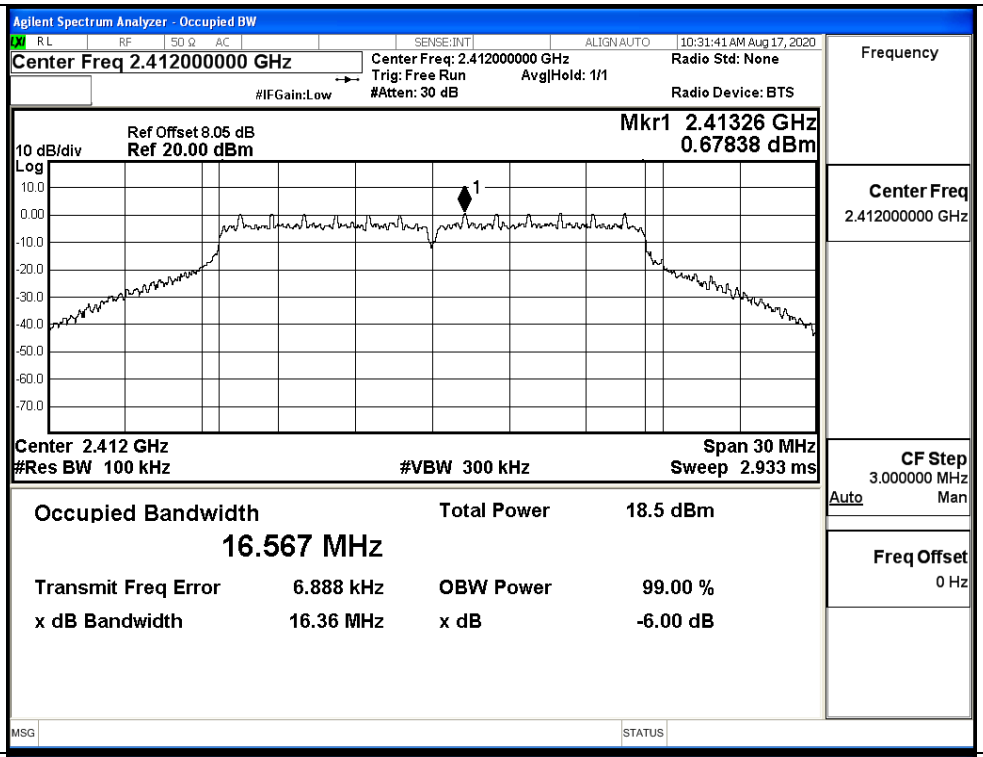
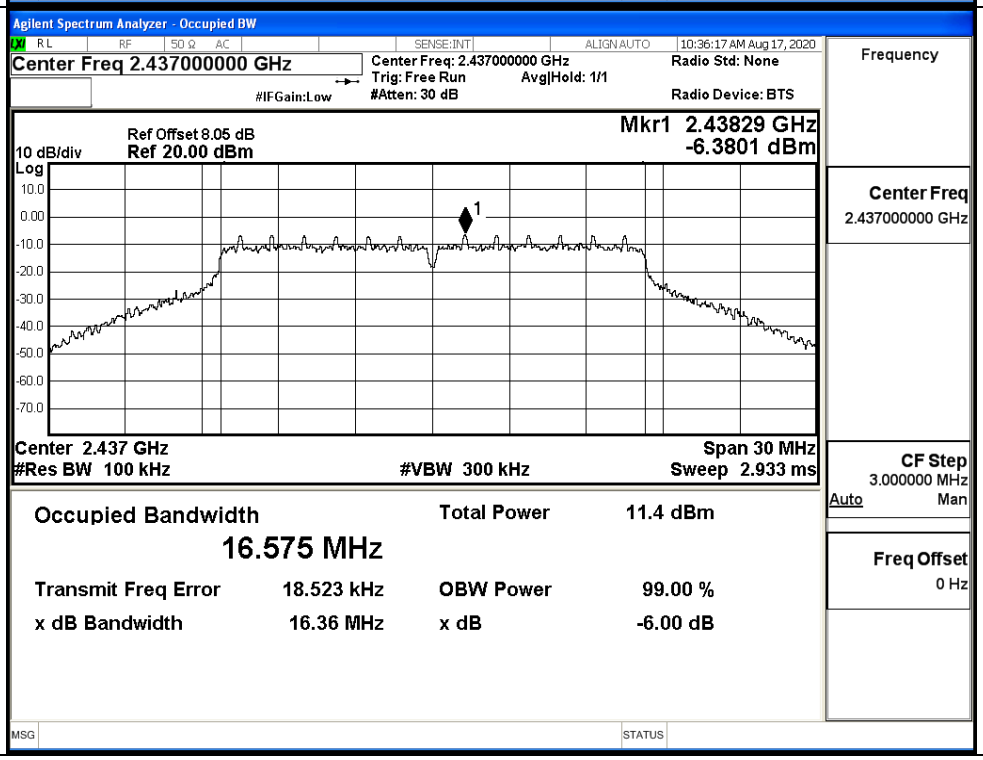
C.4 6dB Bandwidth

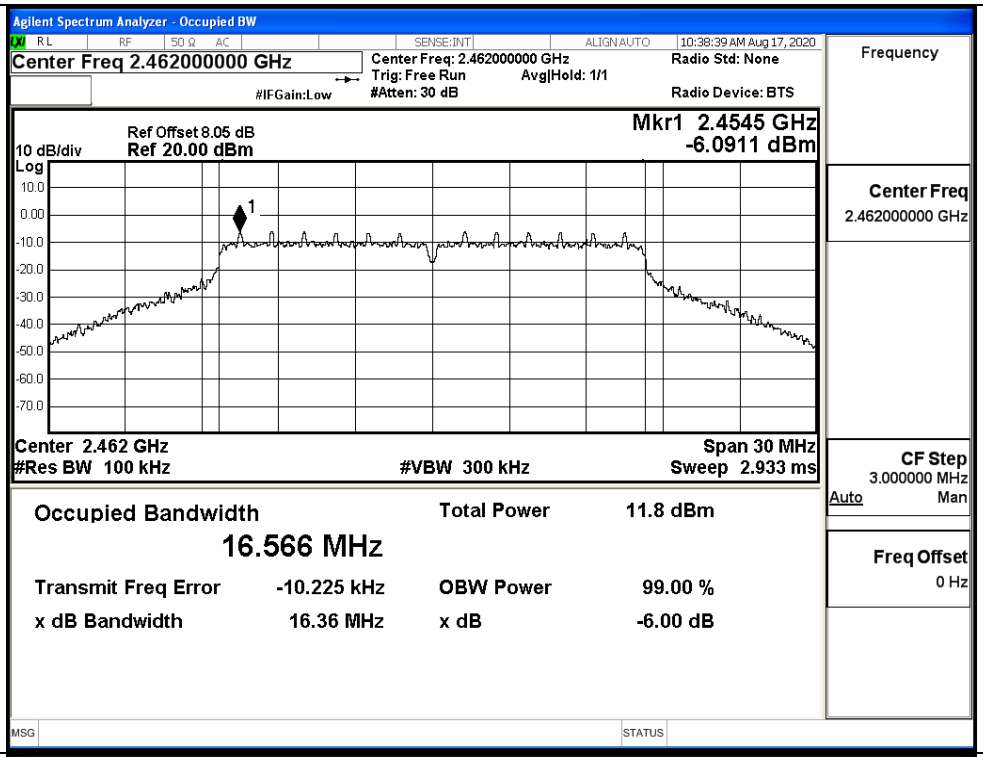
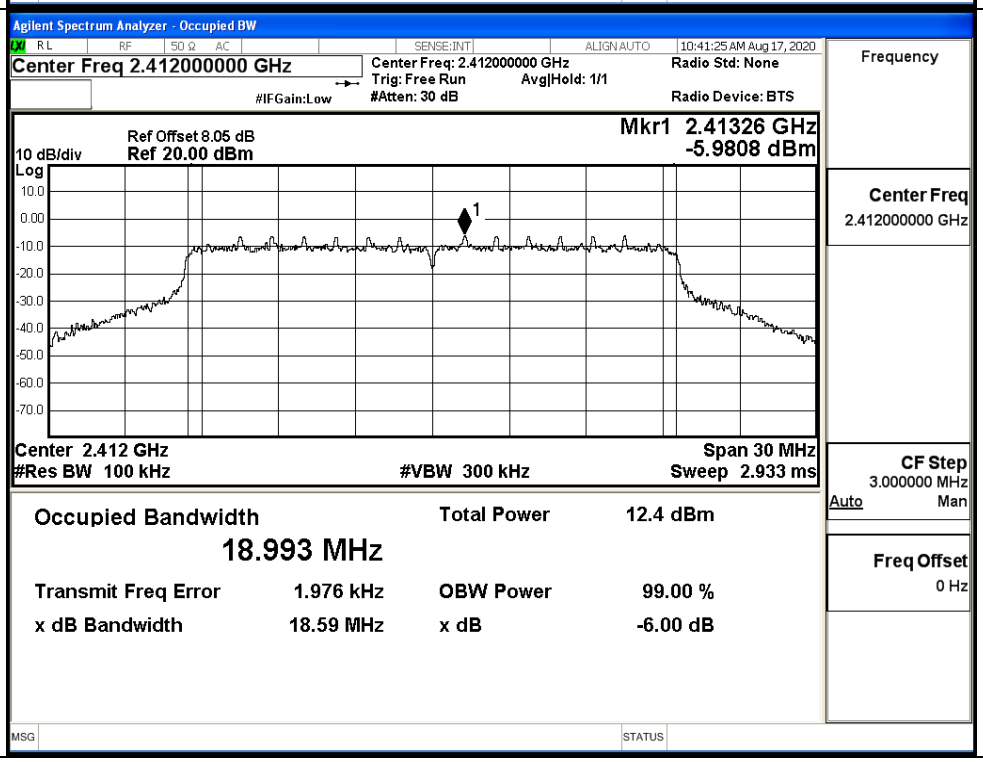
Ant0

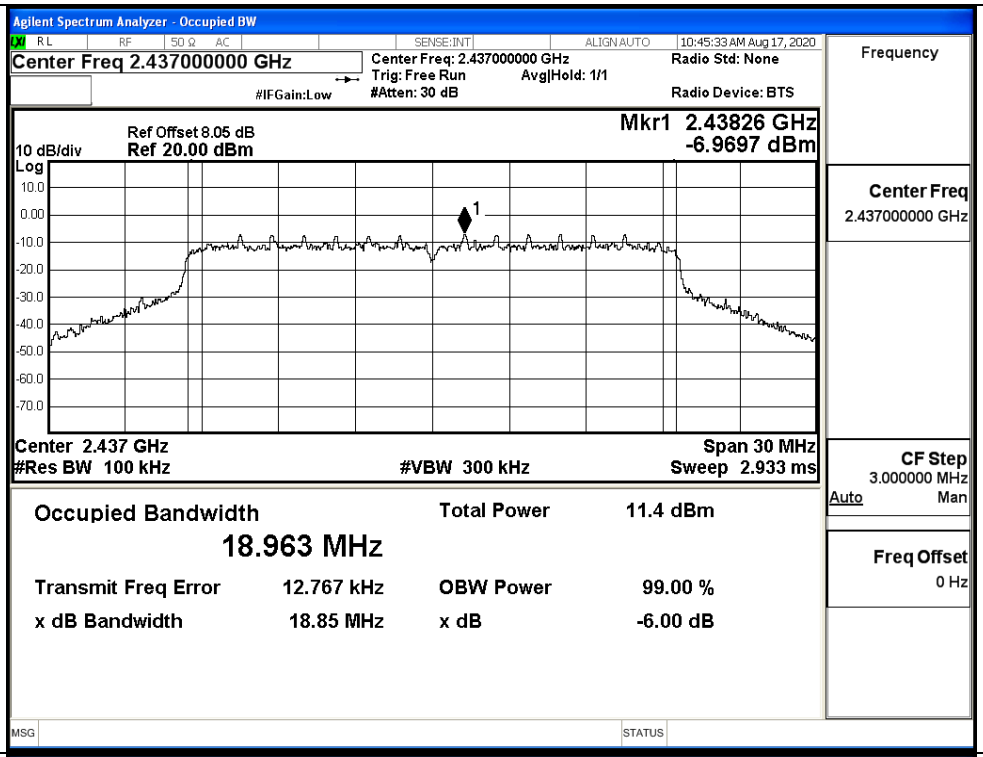
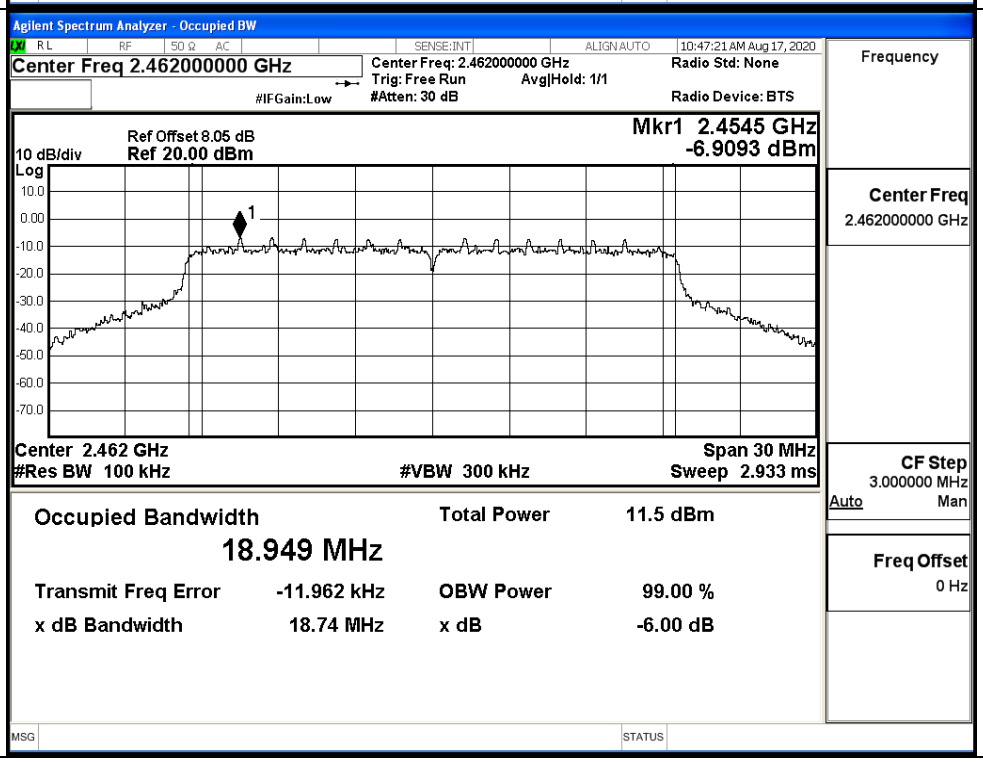
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	10.13	≥0.5	PASS
	MCH	10.12	≥0.5	PASS
	HCH	10.11	≥0.5	PASS
11G	LCH	16.36	≥0.5	PASS
	MCH	16.36	≥0.5	PASS
	HCH	16.36	≥0.5	PASS
11N20	LCH	18.59	≥0.5	PASS
	MCH	18.85	≥0.5	PASS
	HCH	18.74	≥0.5	PASS
11N40	LCH	37.78	≥0.5	PASS
	MCH	37.86	≥0.5	PASS
	HCH	37.64	≥0.5	PASS

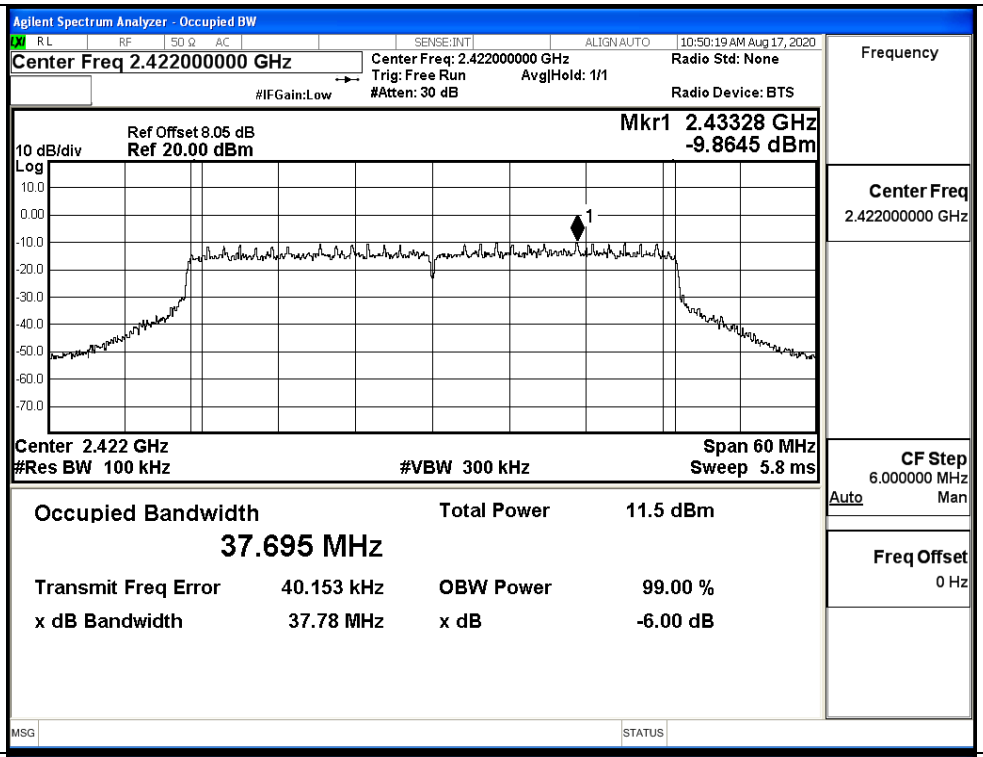
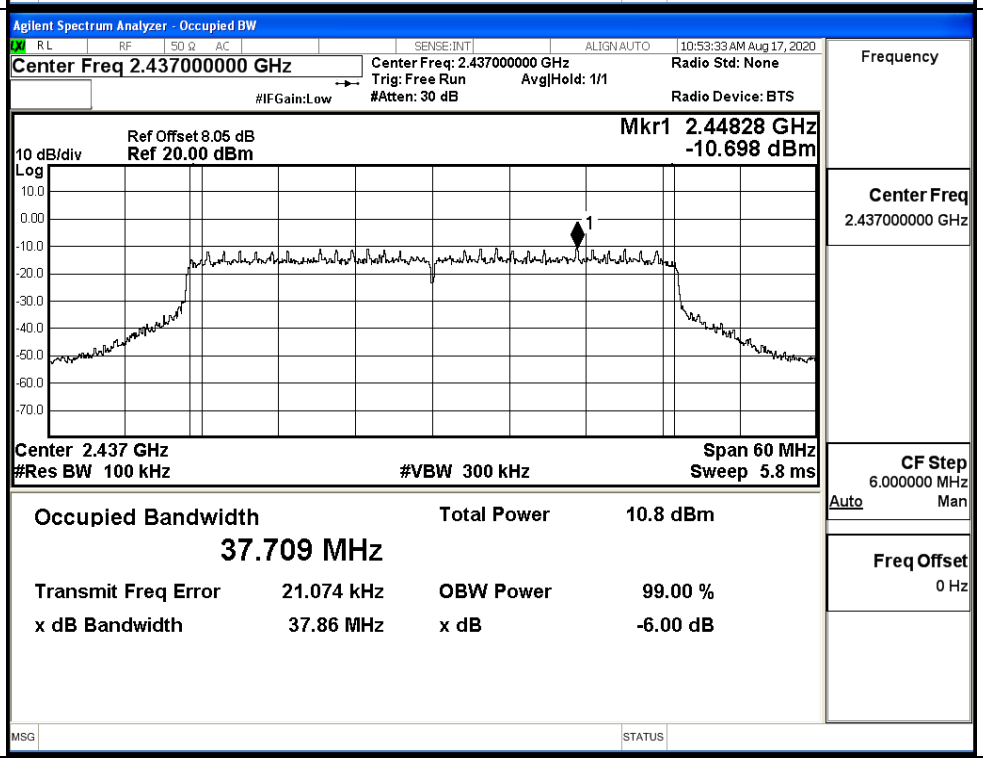
Test Graphs_ Ant0	
11B/LCH	

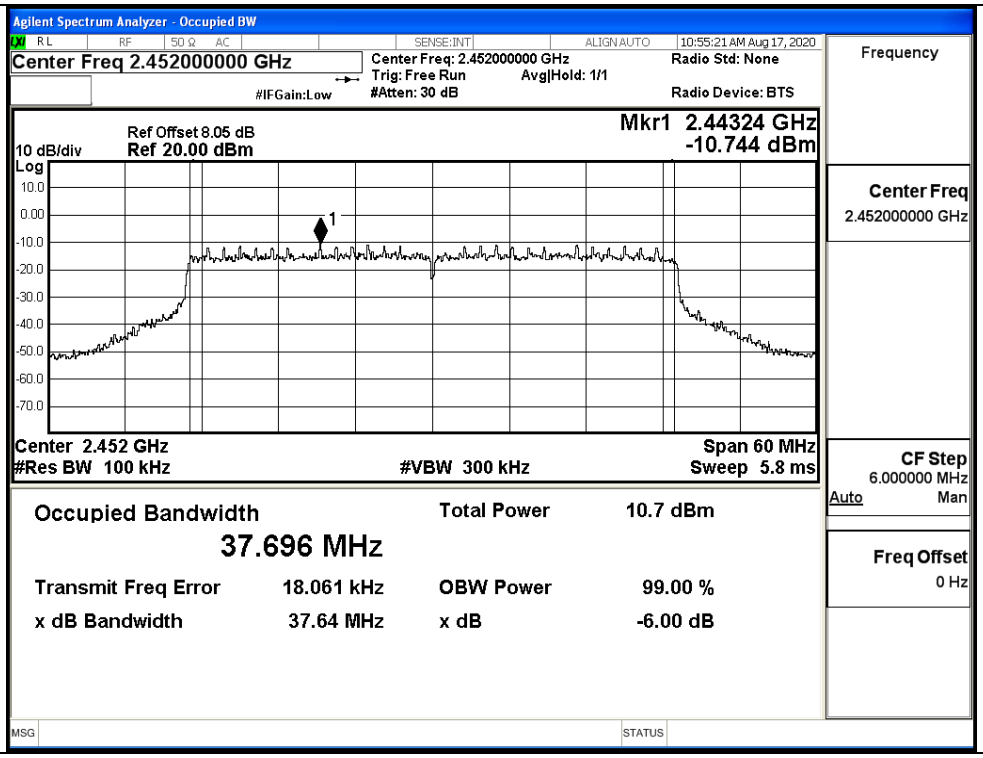
11B/MCH		
11B/HCH		

11G/LCH		
11G/MCH		

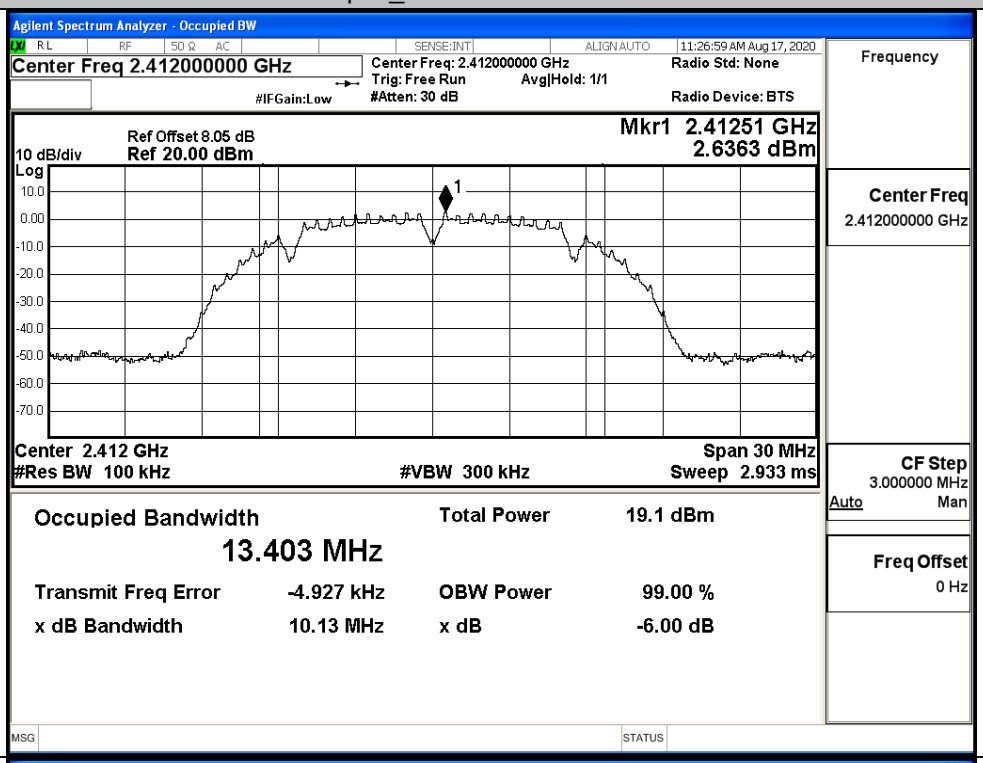
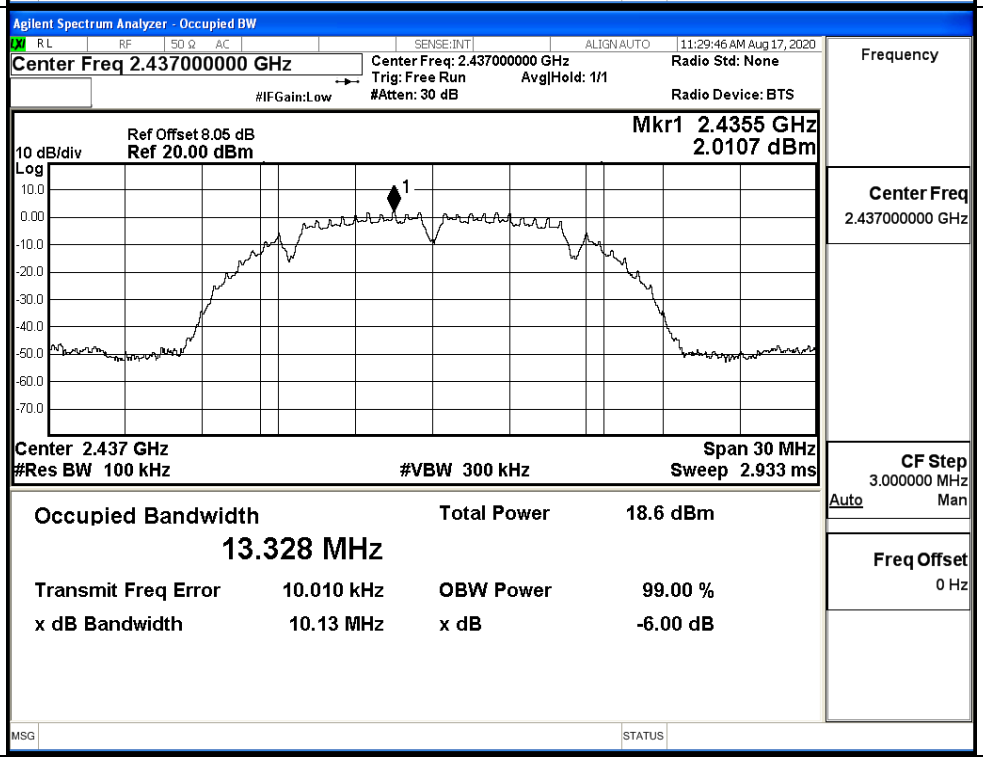
11G/HCH		
11N20 /LCH		

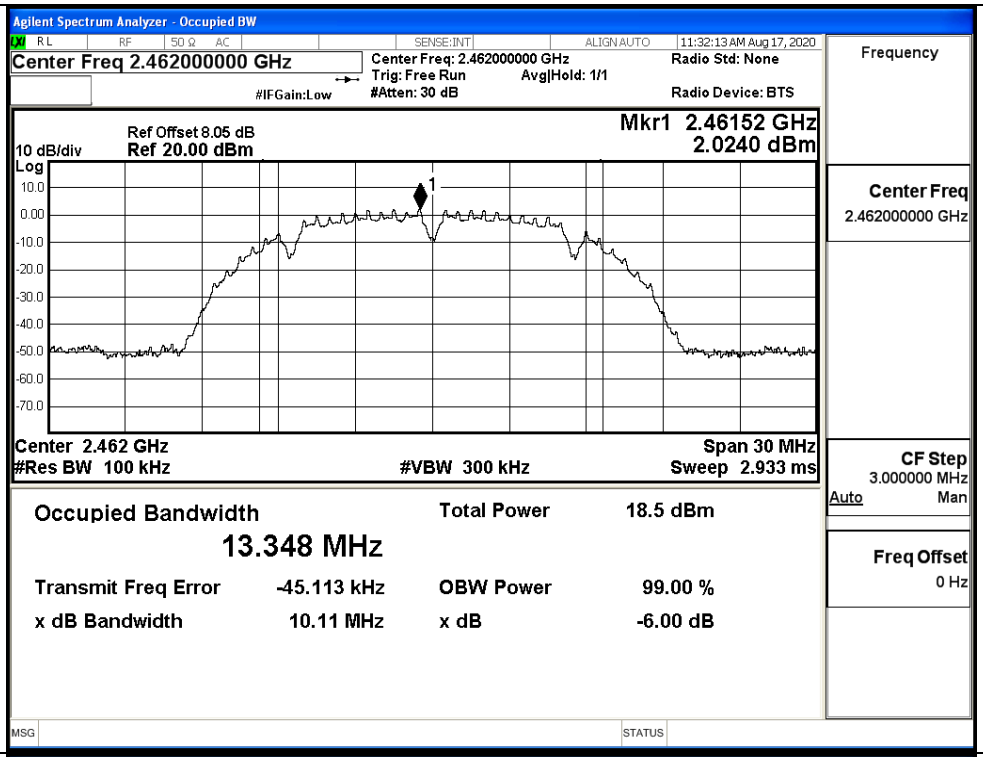
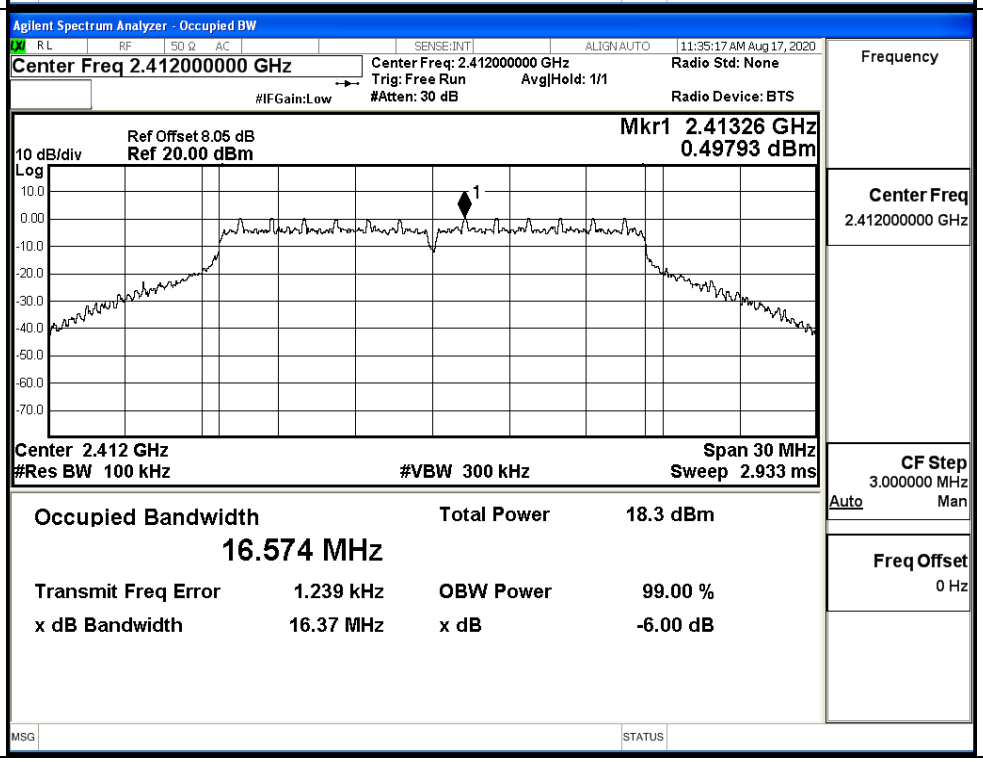
11N20 /MCH		
11N20 /HCH		

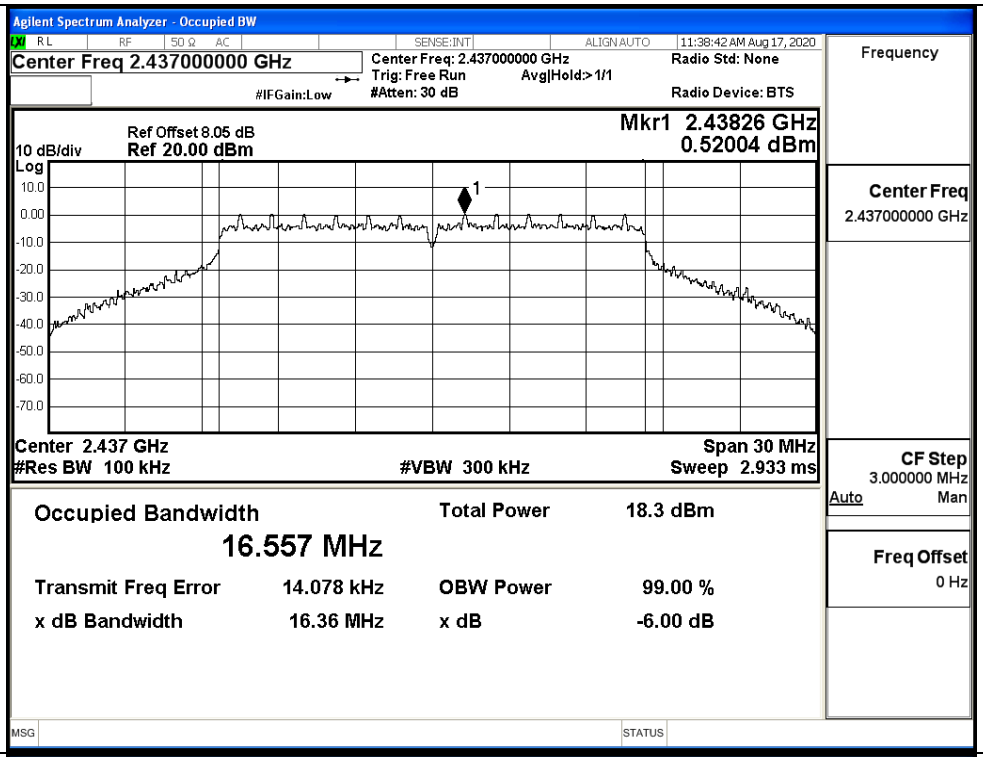
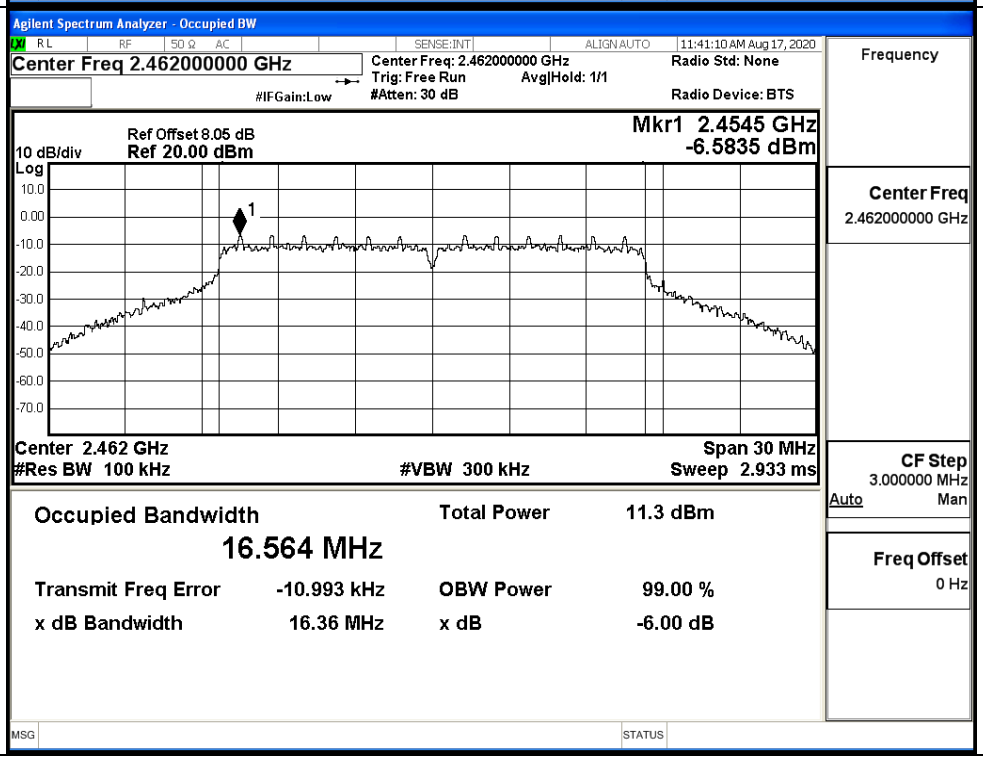
11N40 /LCH		
11N40 /MCH		

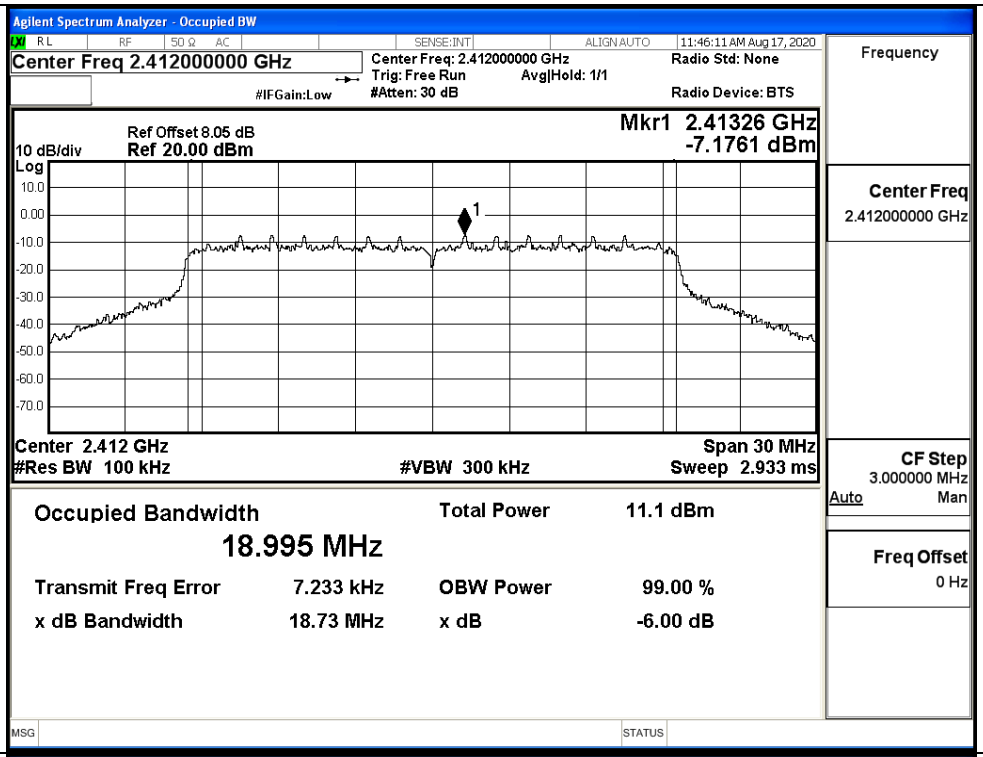
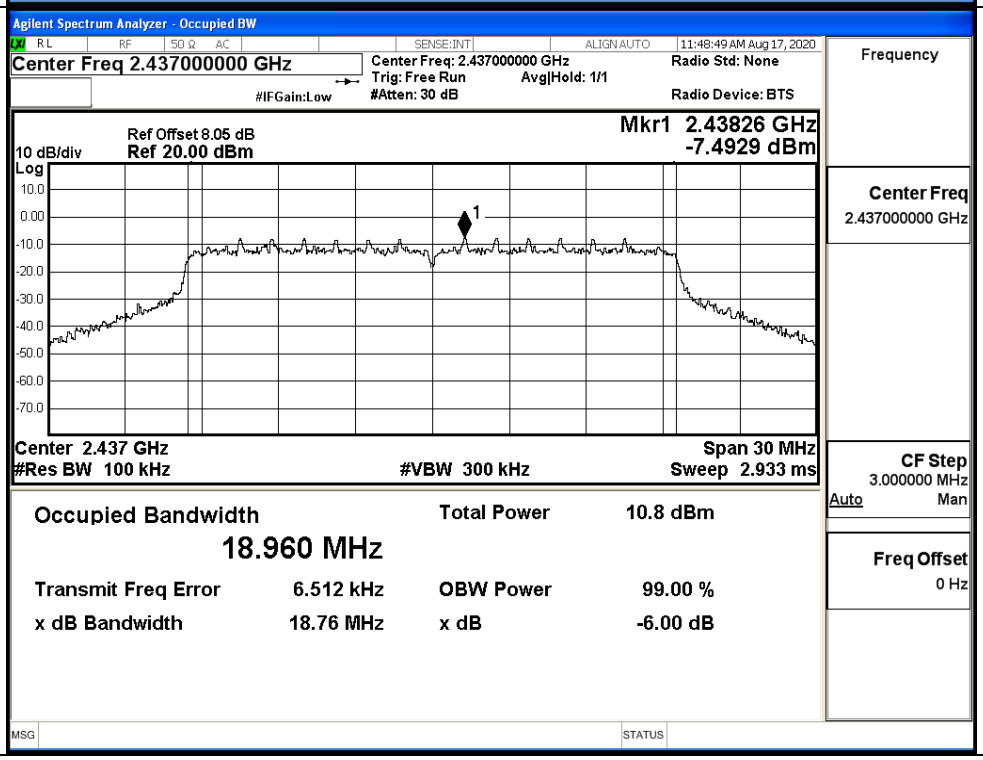
11N40 /HCH		

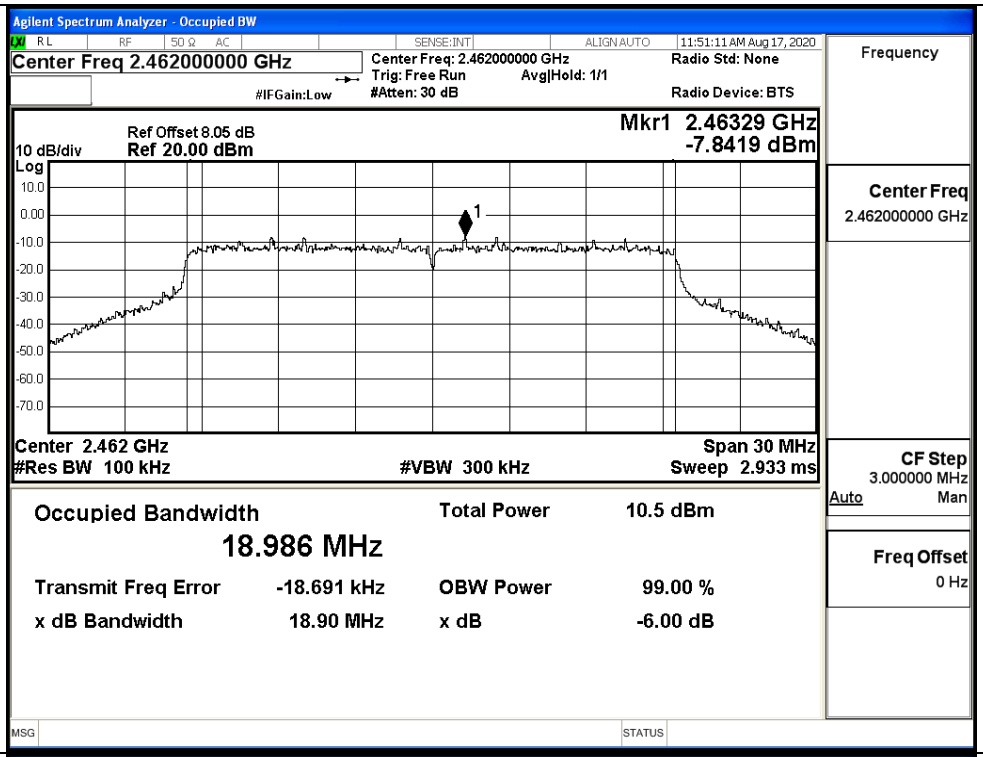
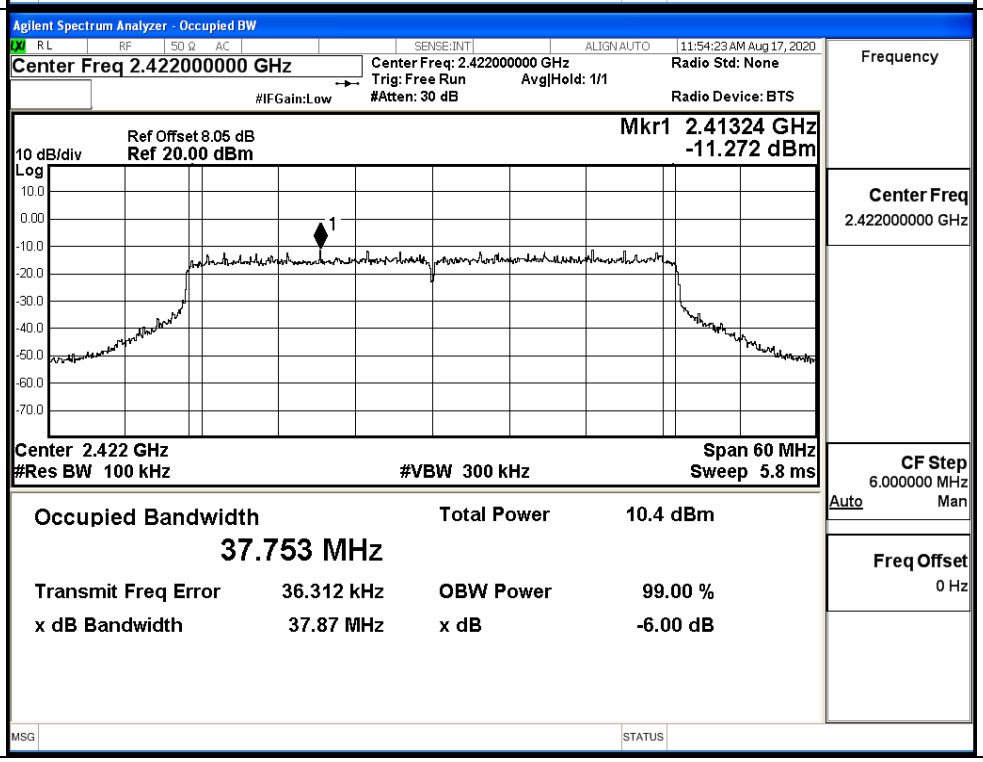
Agilent Spectrum Analyzer - Occupied BW
Center Freq 2.452000000 GHz
Center Freq: 2.452000000 GHz
Trig: Free Run
Avg|Hold: 1/1
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
10:55:21 AM Aug 17, 2020
Ref Offset 8.05 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 2.44324 GHz
-10.744 dBm
Center 2.452 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 60 MHz
Sweep 5.8 ms
Occupied Bandwidth
37.696 MHz
Total Power 10.7 dBm
Transmit Freq Error 18.061 kHz
OBW Power 99.00 %
x dB Bandwidth 37.64 MHz
x dB -6.00 dB
Frequency
Center Freq
2.452000000 GHz
CF Step
6.000000 MHz
Auto Man
Freq Offset
0 Hz
MSG
STATUS

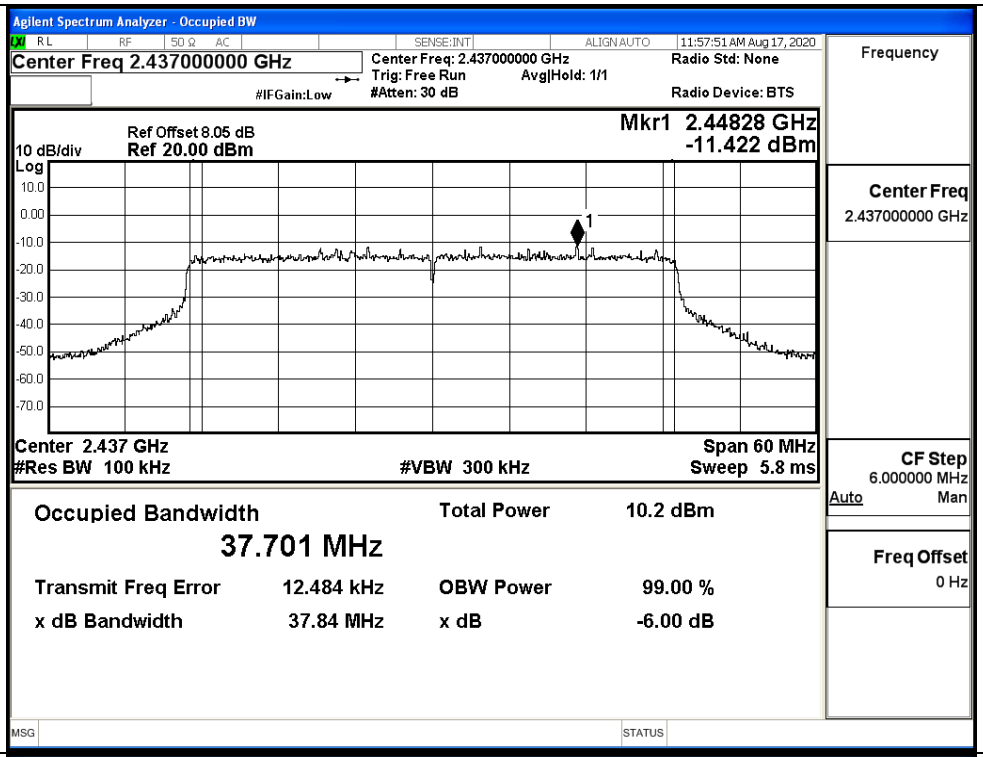
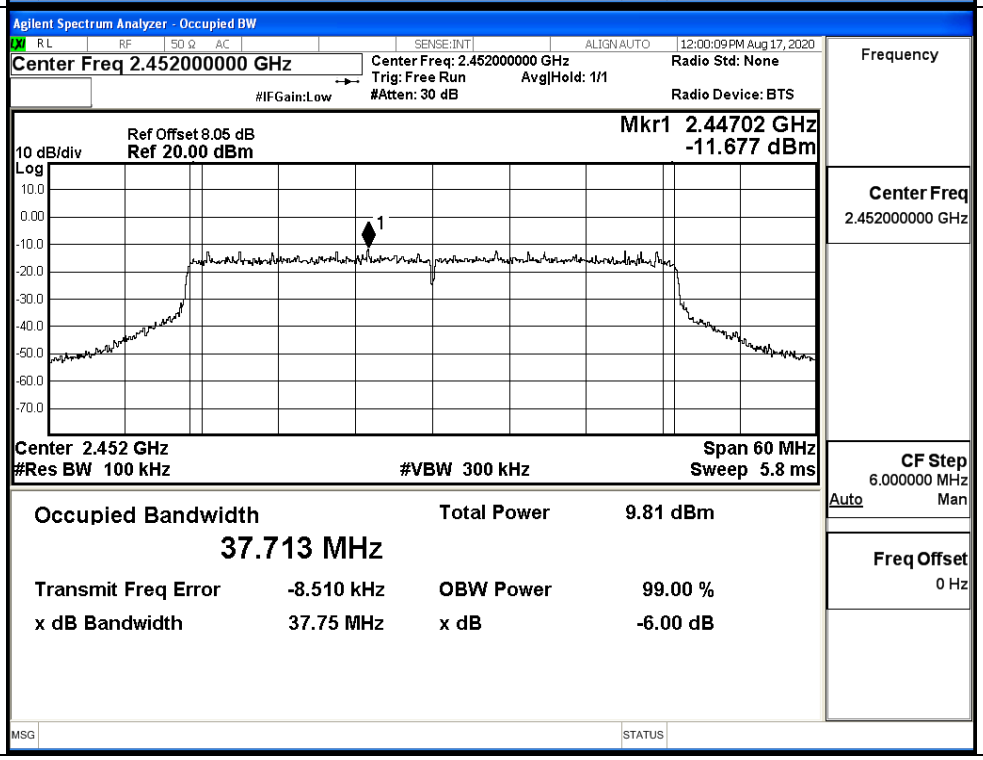
Test Graphs_ Ant1		
11B/LCH		
11B/MCH		

11B/HCH		
11G/LCH		

11G/MCH	
11G/HCH	

11N20 /LCH		
11N20 /MCH		

11N20 /HCH	
11N40 /LCH	

11N40 /MCH	
11N40 /HCH	

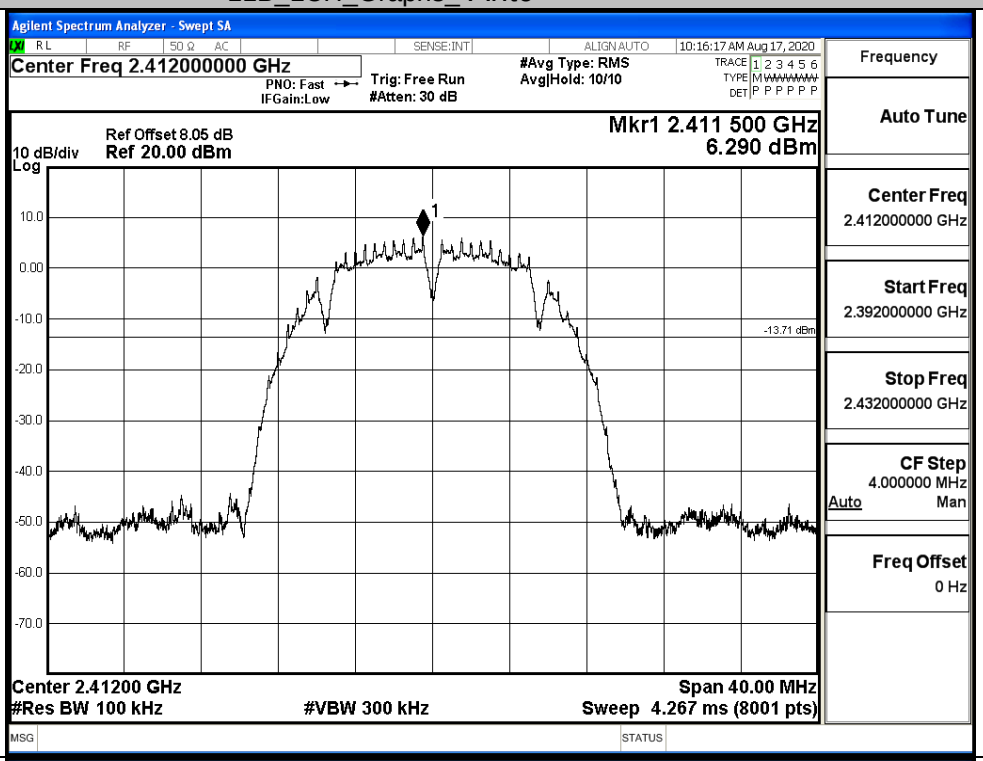
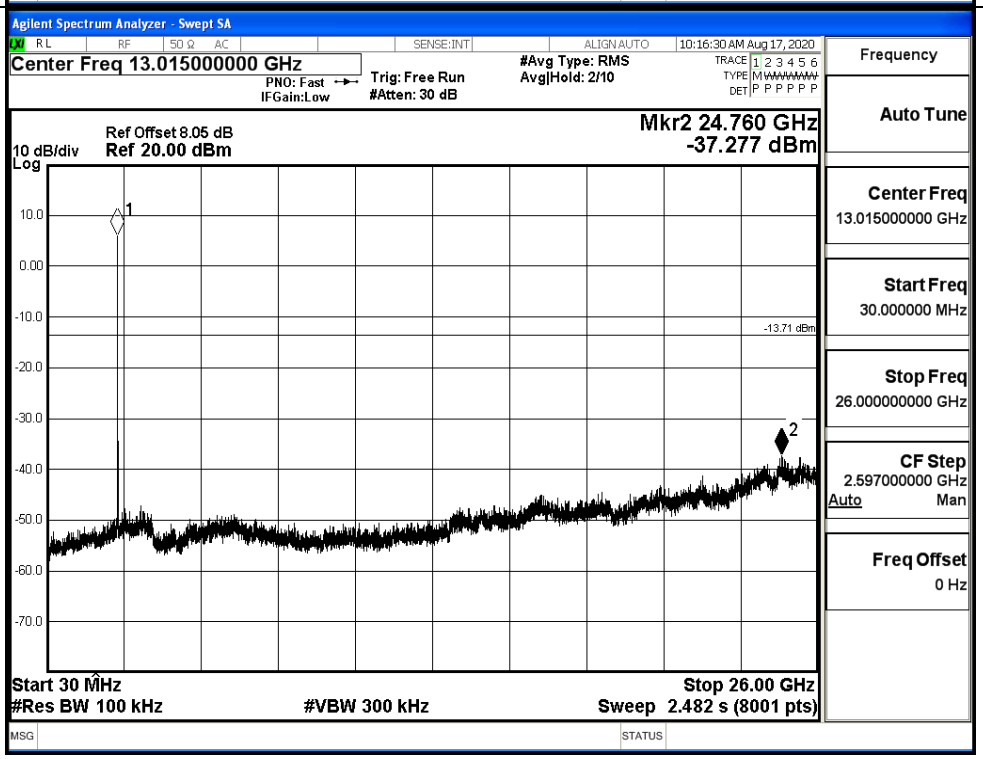
C.5 RF Conducted Spurious Emissions

Ant0

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	6.29	-37.277	-13.710	PASS
	MCH	6.102	-38.172	-13.898	PASS
	HCH	4.775	-37.713	-15.225	PASS
11G	LCH	-6.49	-37.882	-26.490	PASS
	MCH	-6.523	-37.914	-26.523	PASS
	HCH	-6.097	-38.289	-26.097	PASS
11N20	LCH	-6.687	-37.744	-26.687	PASS
	MCH	-7.067	-38.139	-27.067	PASS
	HCH	-7.042	-38.203	-27.042	PASS
11N40	LCH	-10.888	-37.495	-30.888	PASS
	MCH	-10.751	-38.064	-30.751	PASS
	HCH	-10.831	-36.591	-30.831	PASS

Ant1

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	2.623	-37.776	-17.377	PASS
	MCH	1.727	-37.399	-18.273	PASS
	HCH	2.09	-38.472	-17.910	PASS
11G	LCH	0.437	-37.699	-19.563	PASS
	MCH	-6.733	-38.363	-26.733	PASS
	HCH	-6.661	-38.132	-26.661	PASS
11N20	LCH	-7.391	-36.901	-27.391	PASS
	MCH	-7.639	-37.921	-27.639	PASS
	HCH	-8.004	-38.244	-28.004	PASS
11N40	LCH	-11.602	-37.853	-31.602	PASS
	MCH	-11.618	-37.611	-31.618	PASS
	HCH	-11.597	-38.196	-31.597	PASS

11B_LCH_Graphs_ Ant0	
Pref/11B/LCH	
Puw/11B/LCH	

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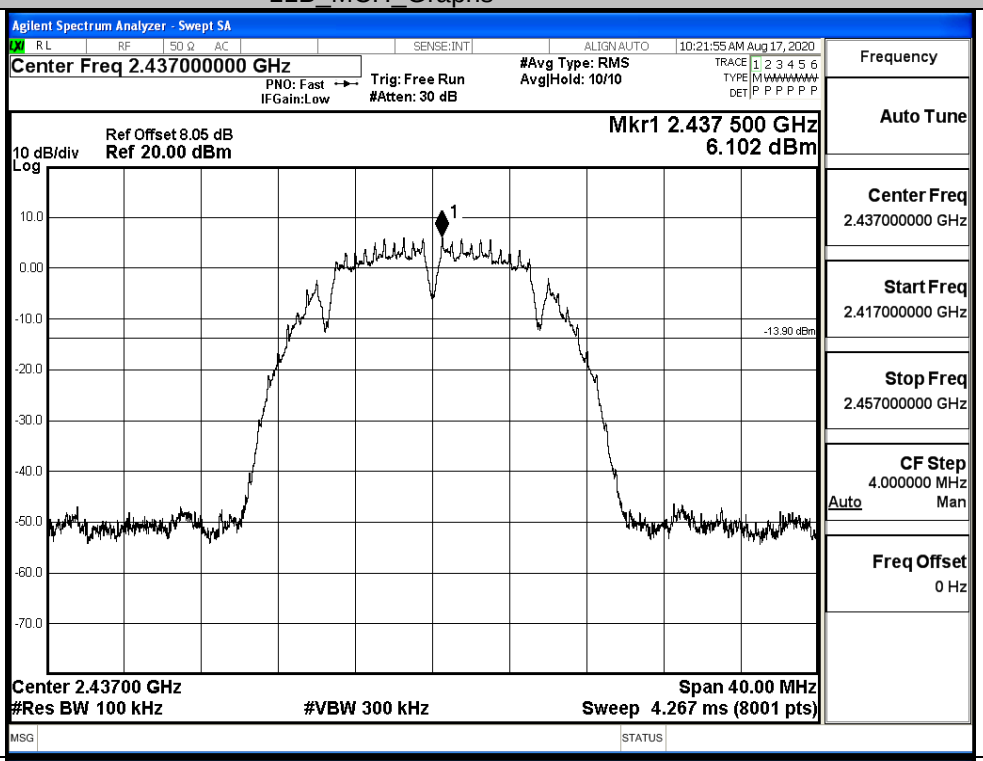
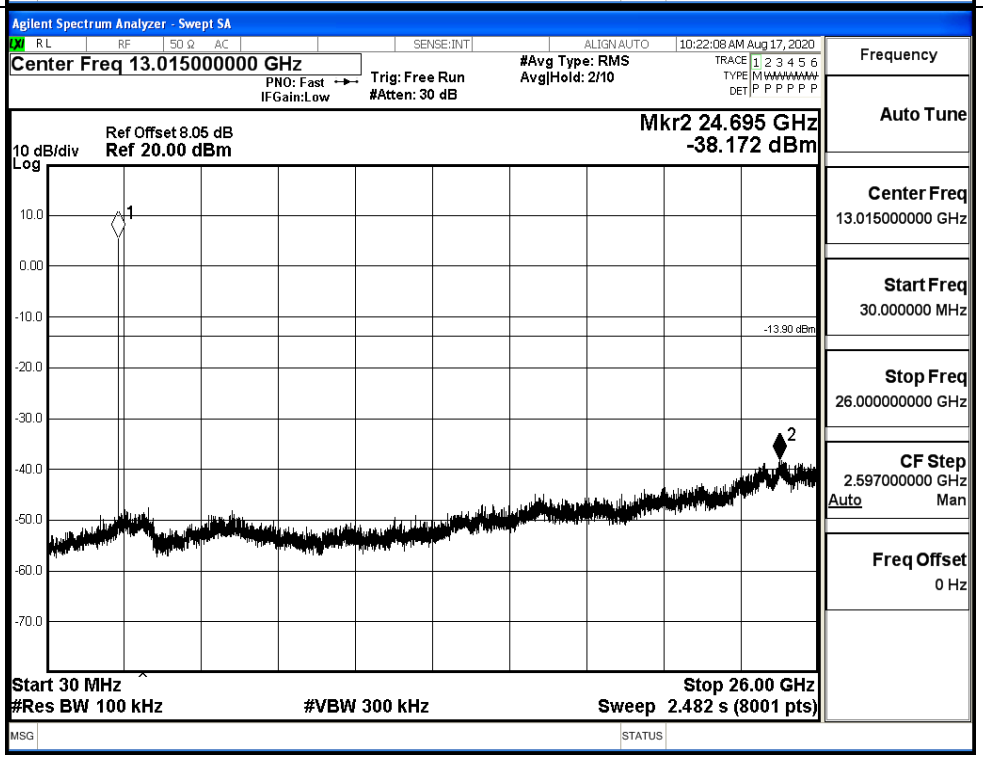
Pref/11B/MCH		
Puw/11B/MCH		

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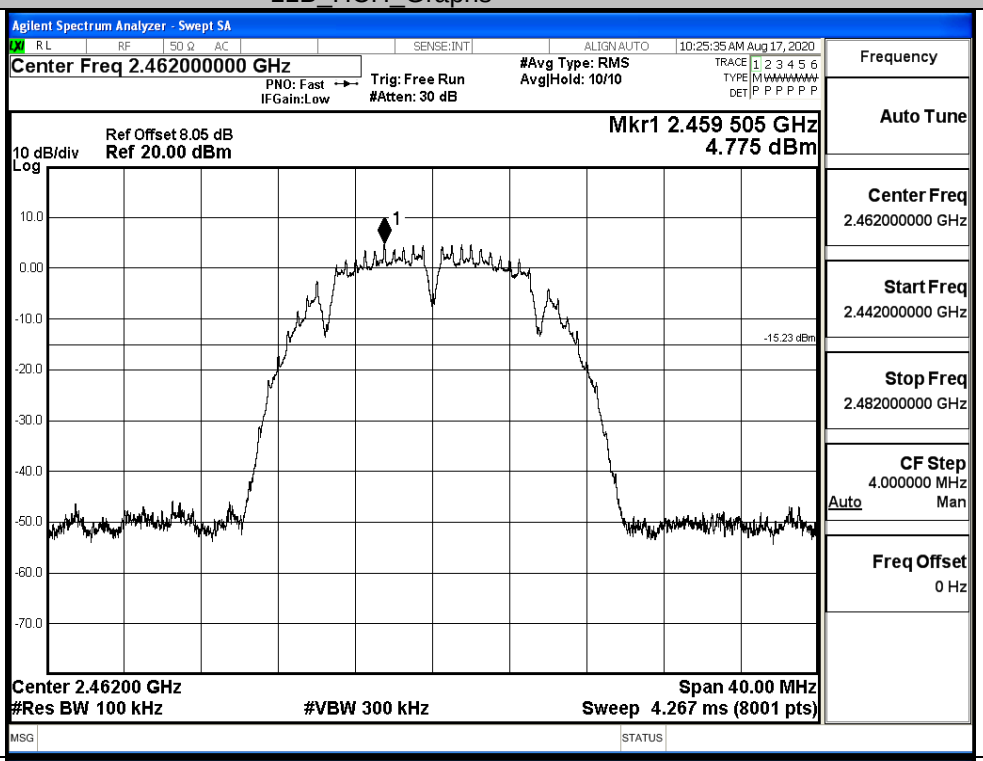
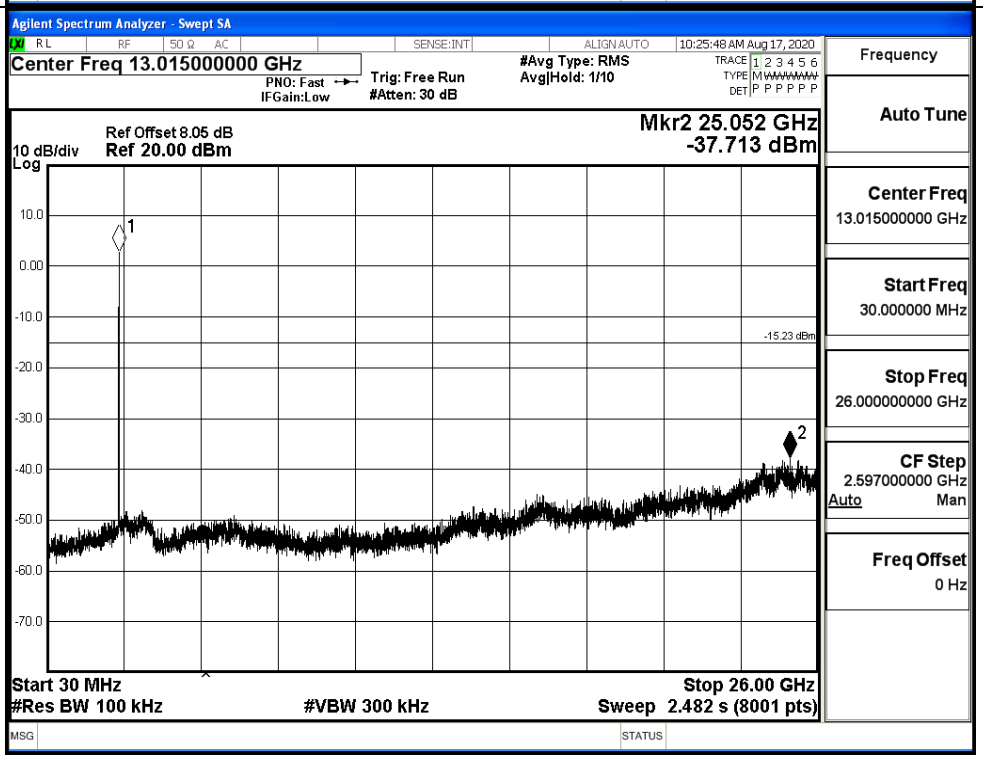
Pref/11B/HCH		
Puw/11B/HCH		

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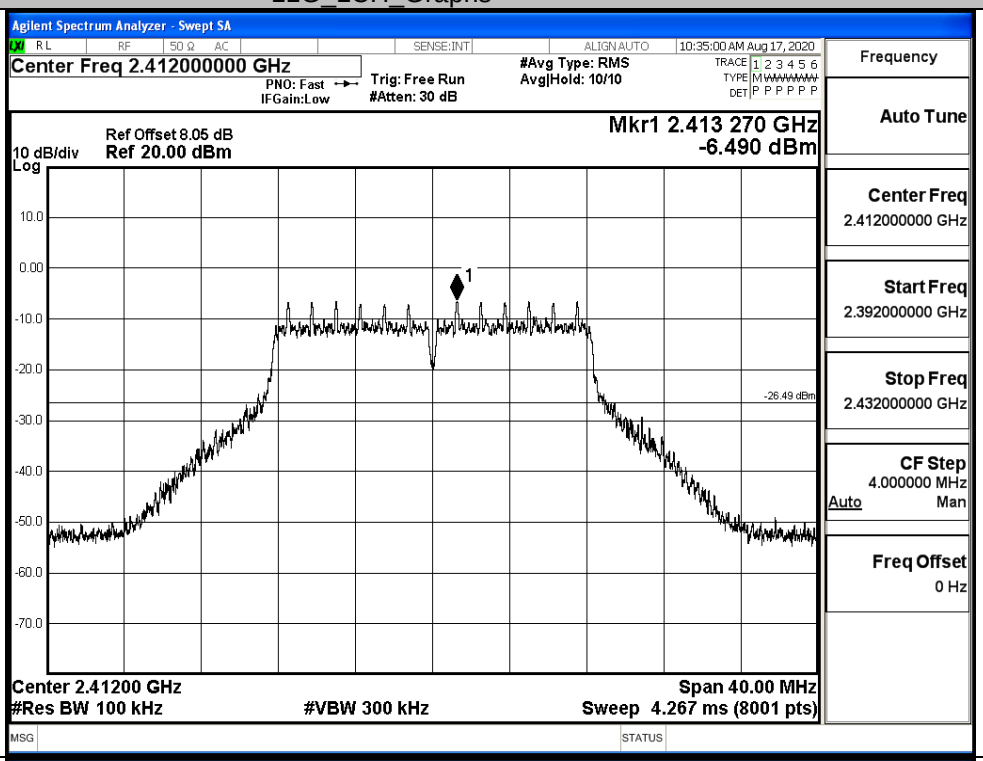
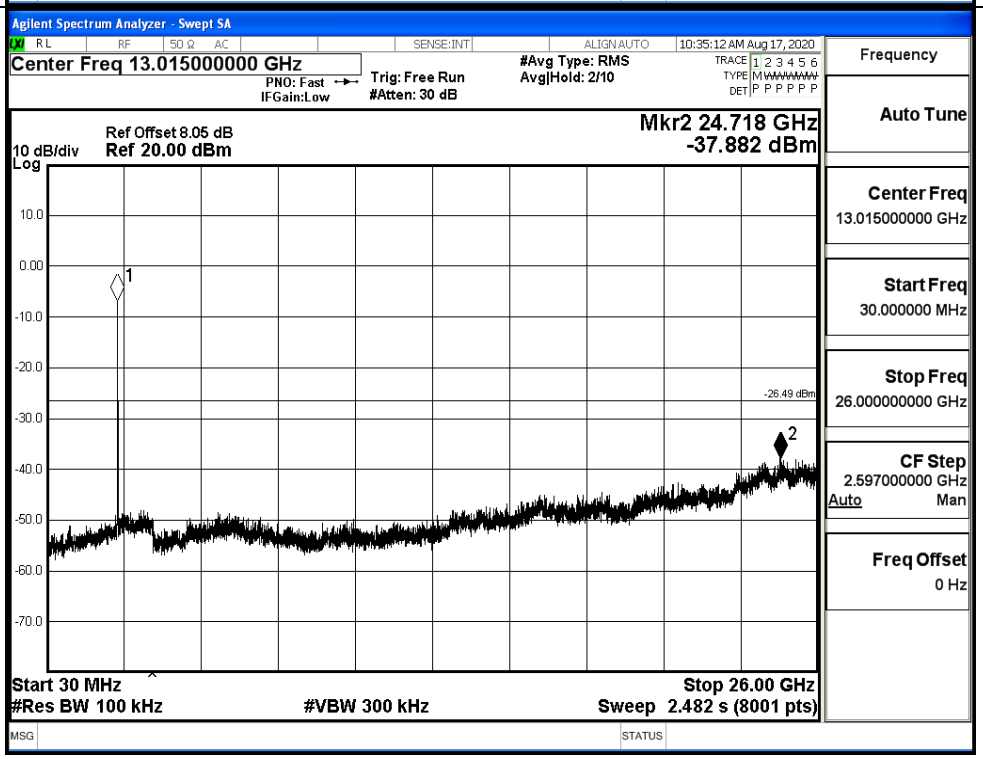
Pref/11G/LCH		
Puw/11G/LCH		

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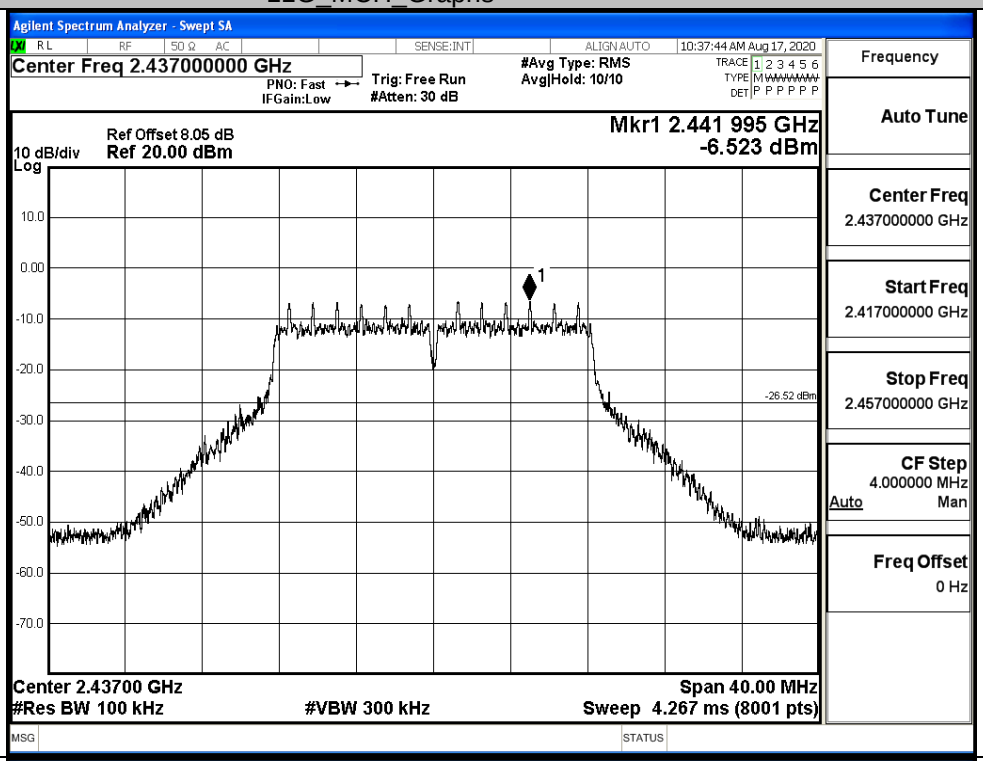
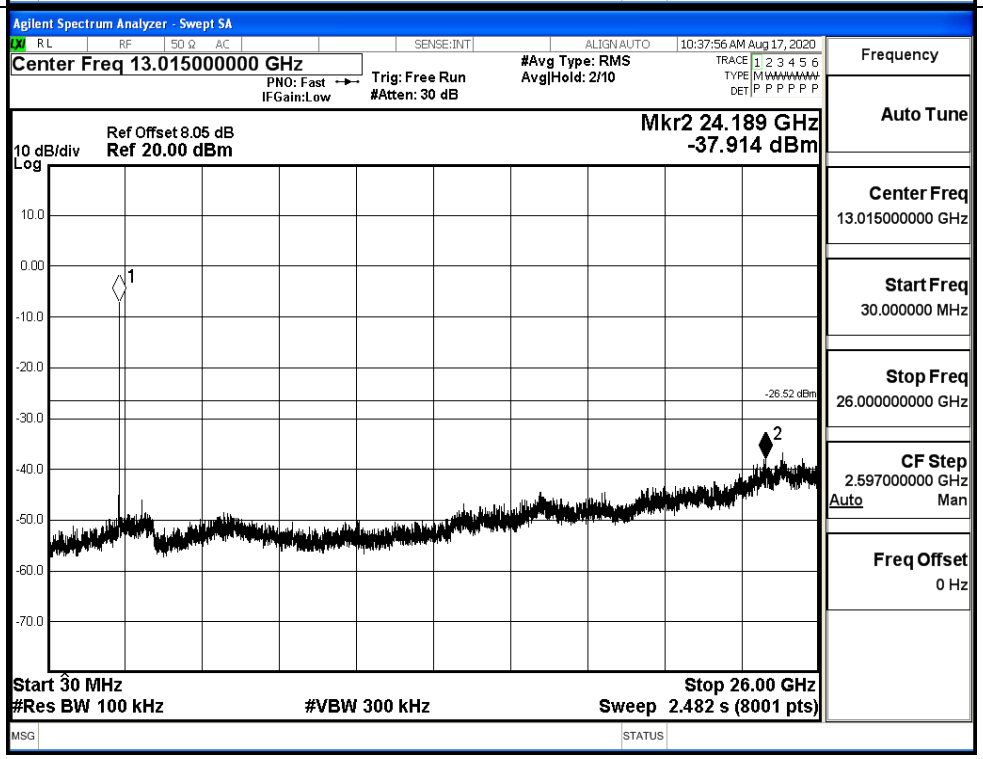
Pref/11G/MCH	
Puw/11G/MCH	

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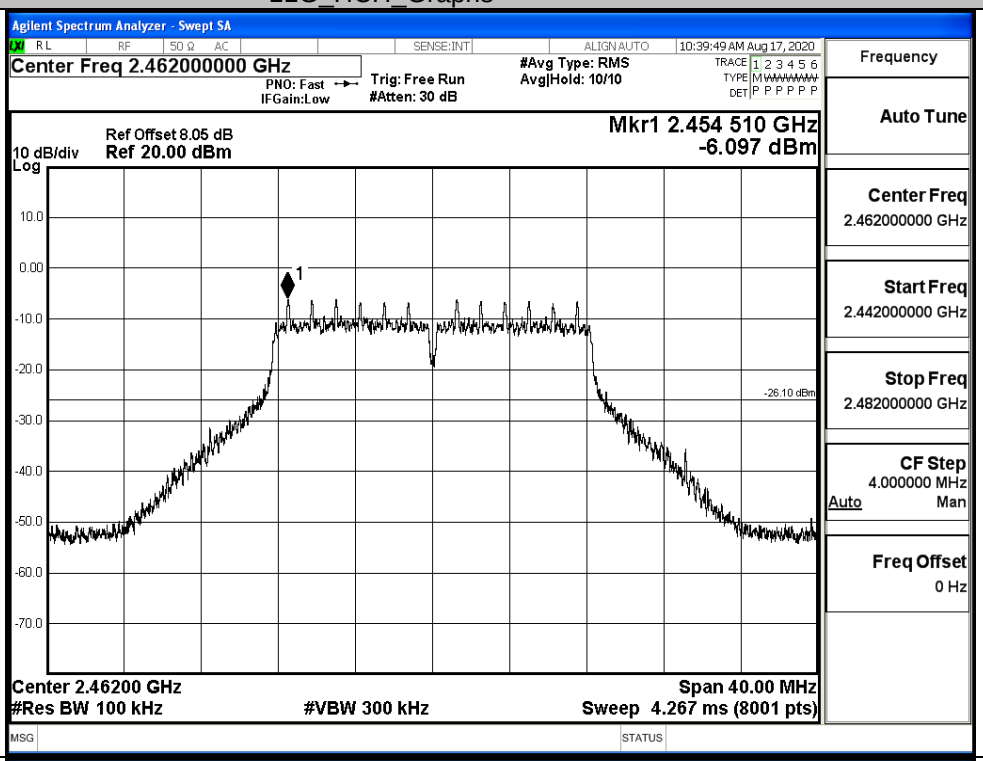
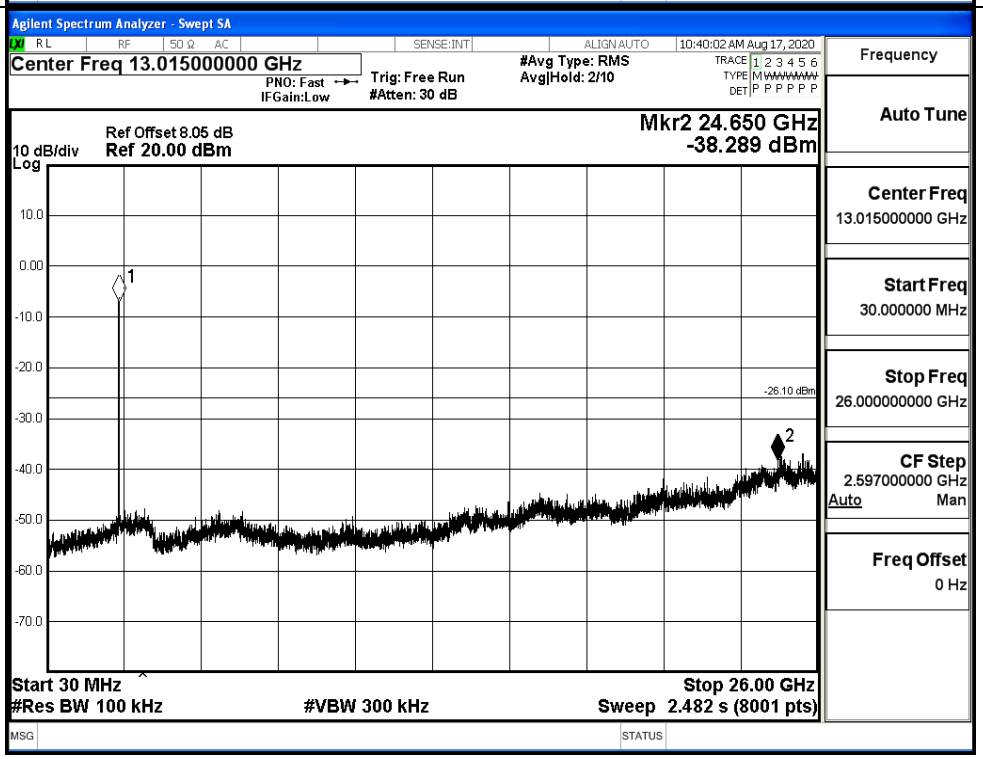
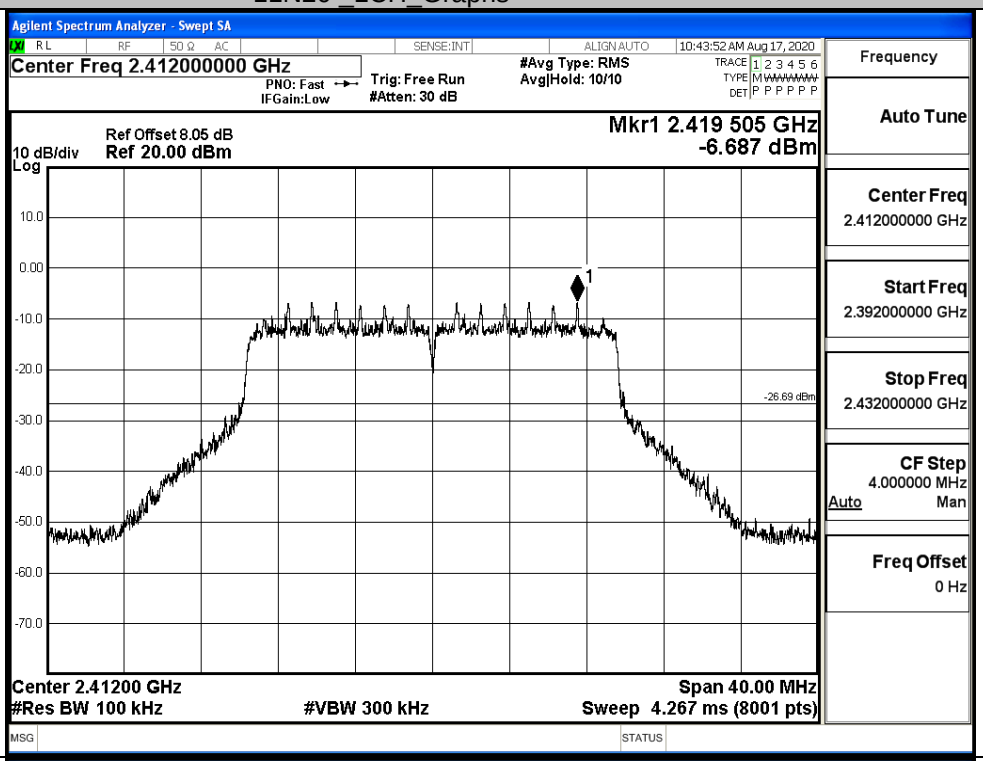
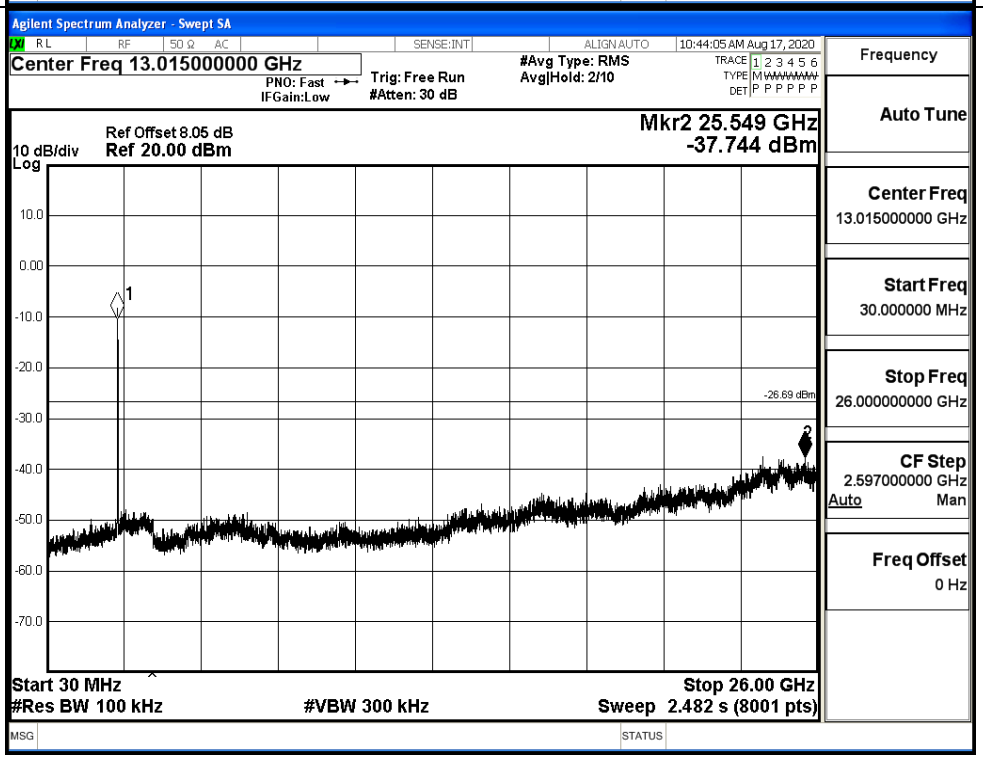
Pref/11G/HCH		
Puw/11G/HCH		

11N20 _LCH_Graphs	
Pref/11N20 /LCH	
Puw/11N20 /LCH	

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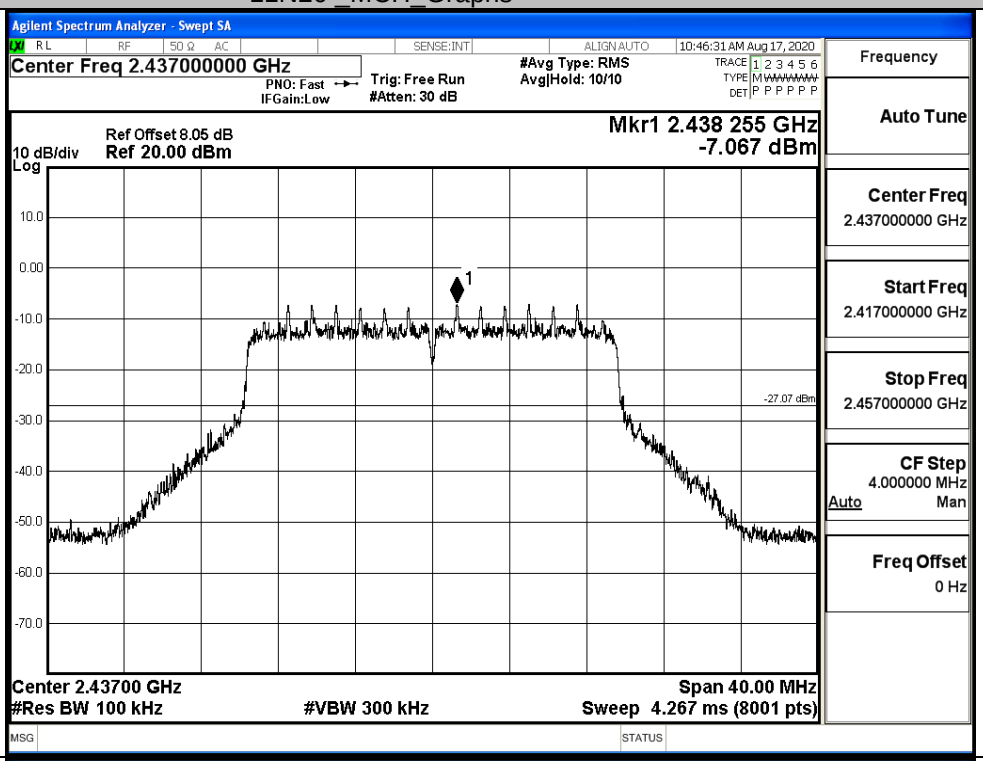
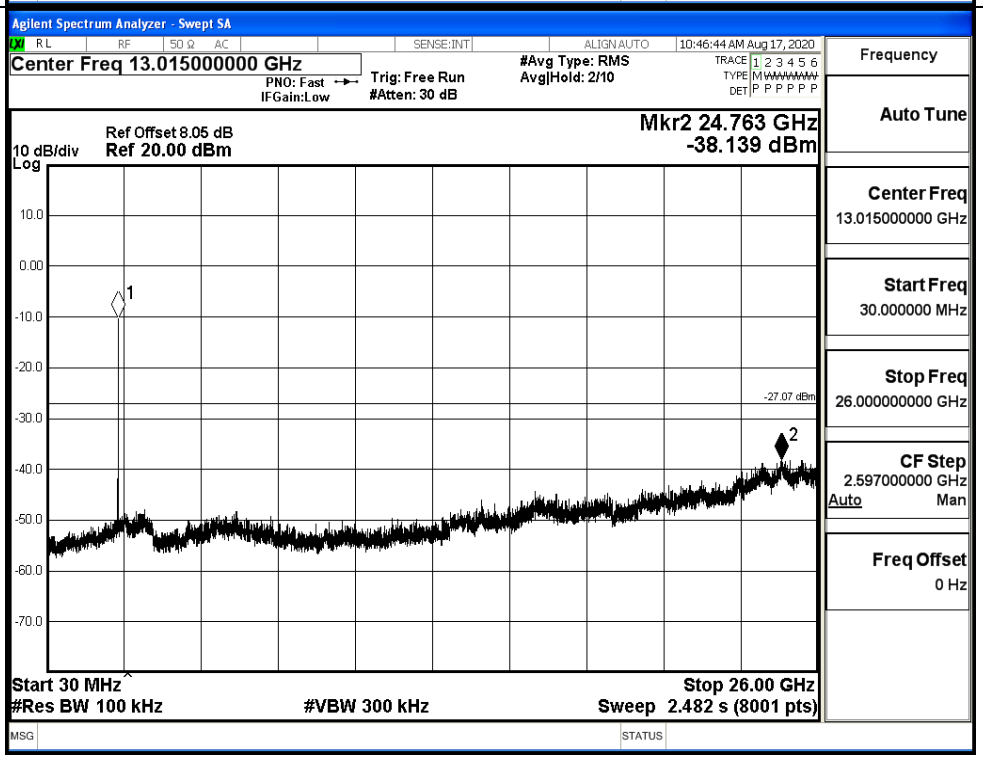
Pref/11N20 /MCH	
Puw/11N20 /MCH	

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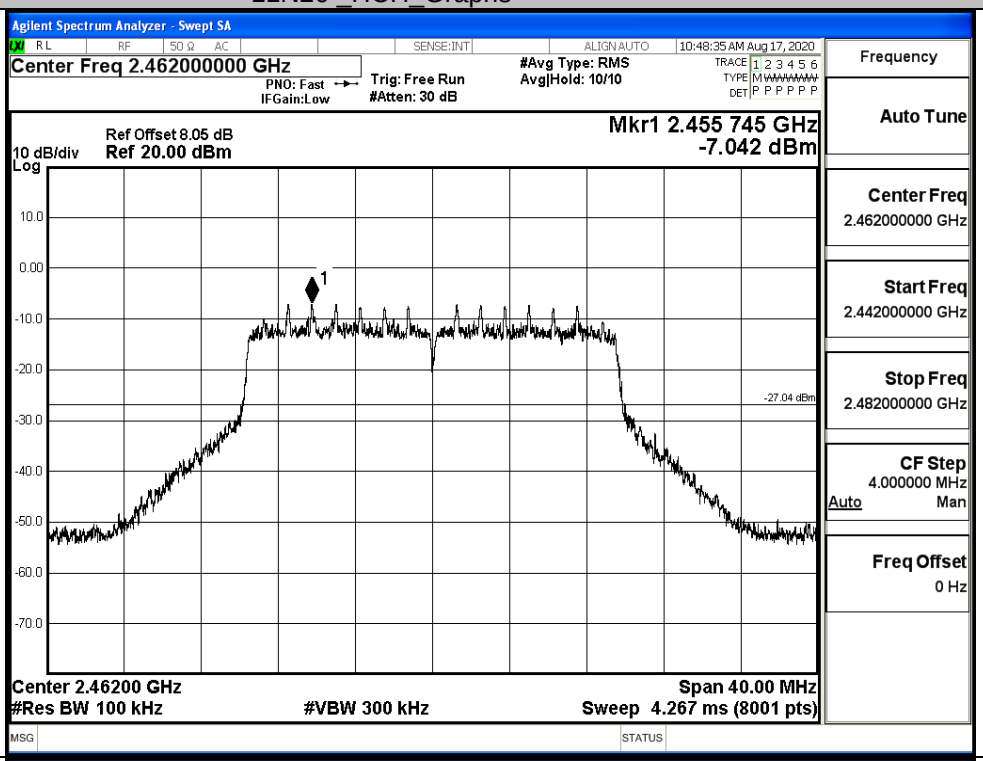
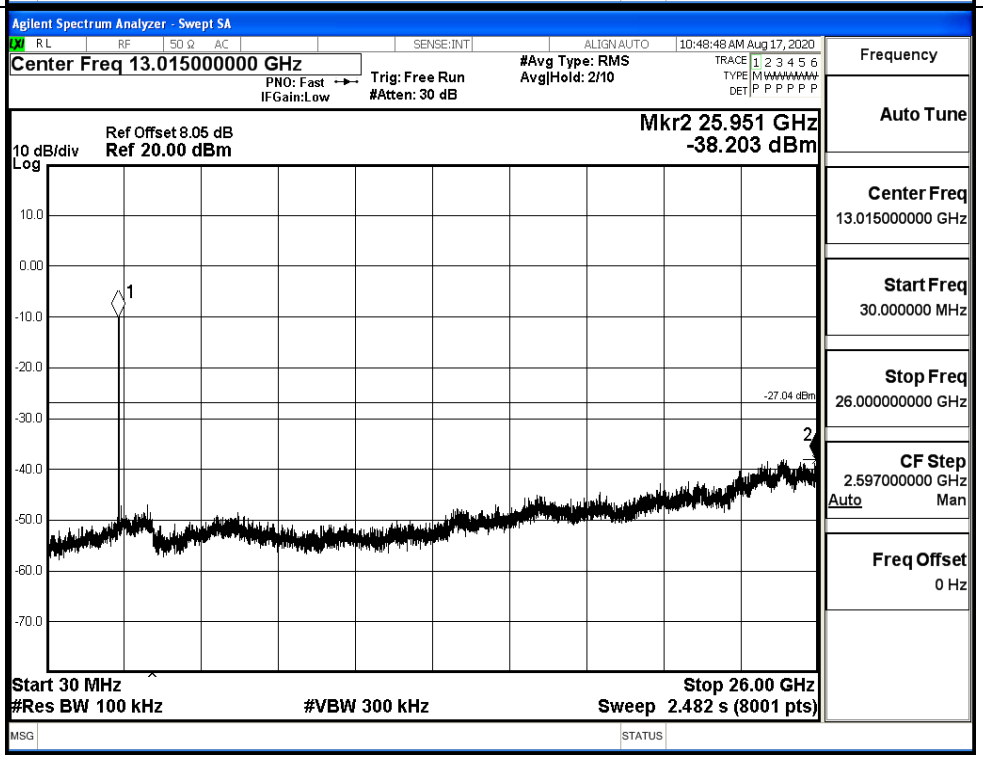
Pref/11N20 /HCH		
Puw/11N20 /HCH		

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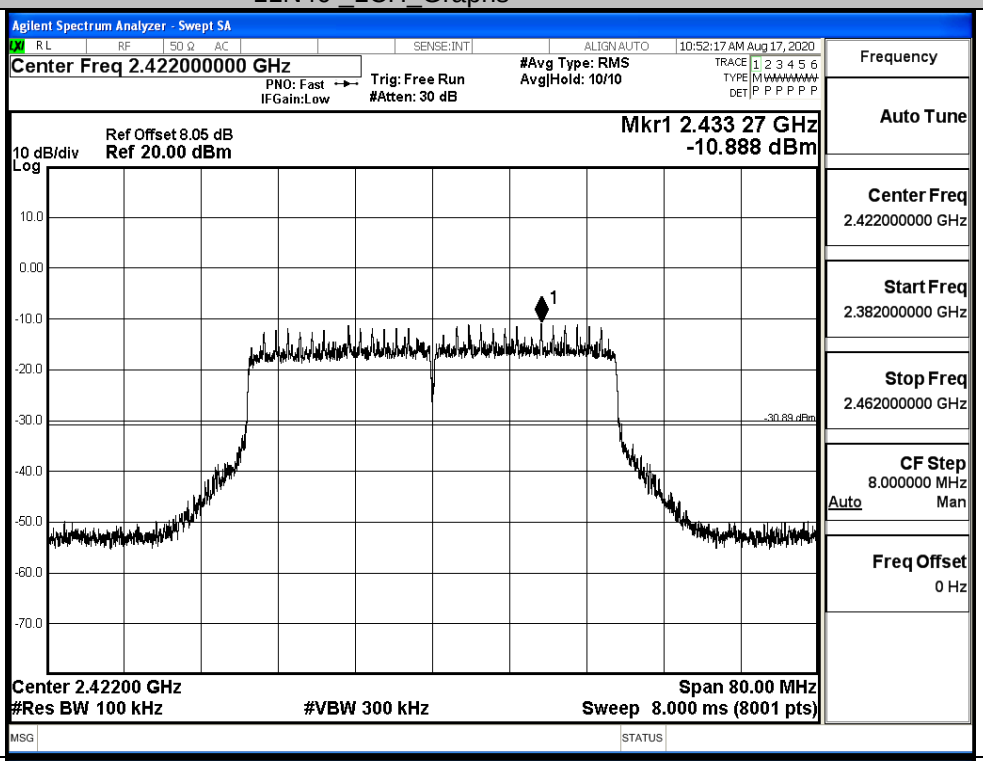
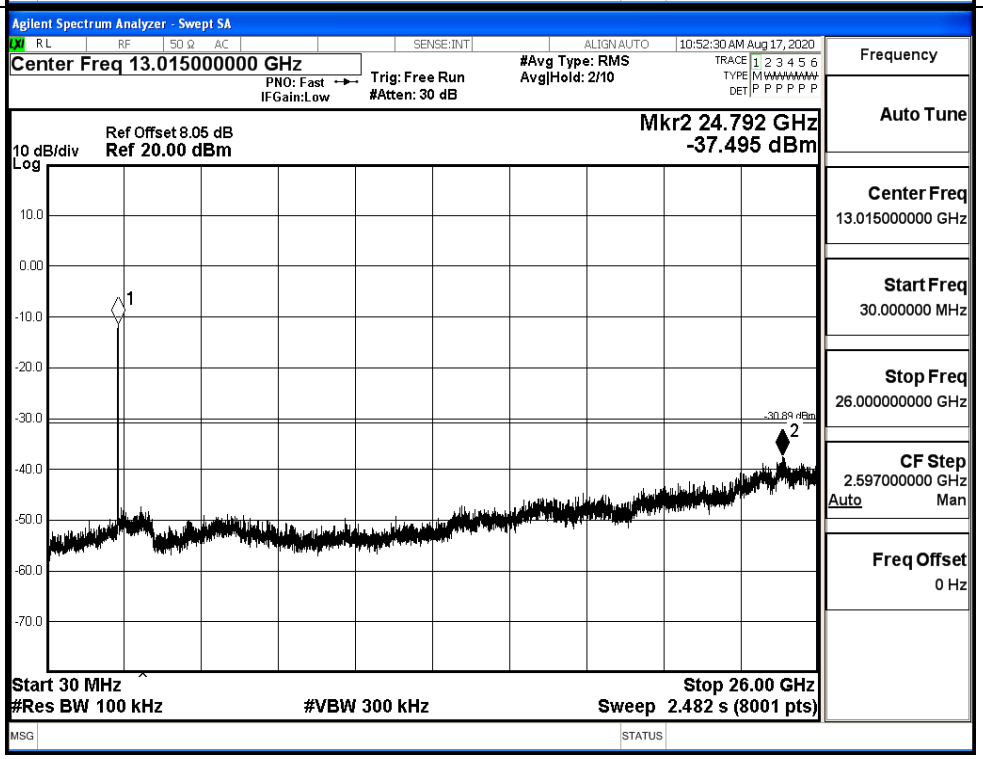
Pref/11N40 /LCH		
Puw/11N40 /LCH		

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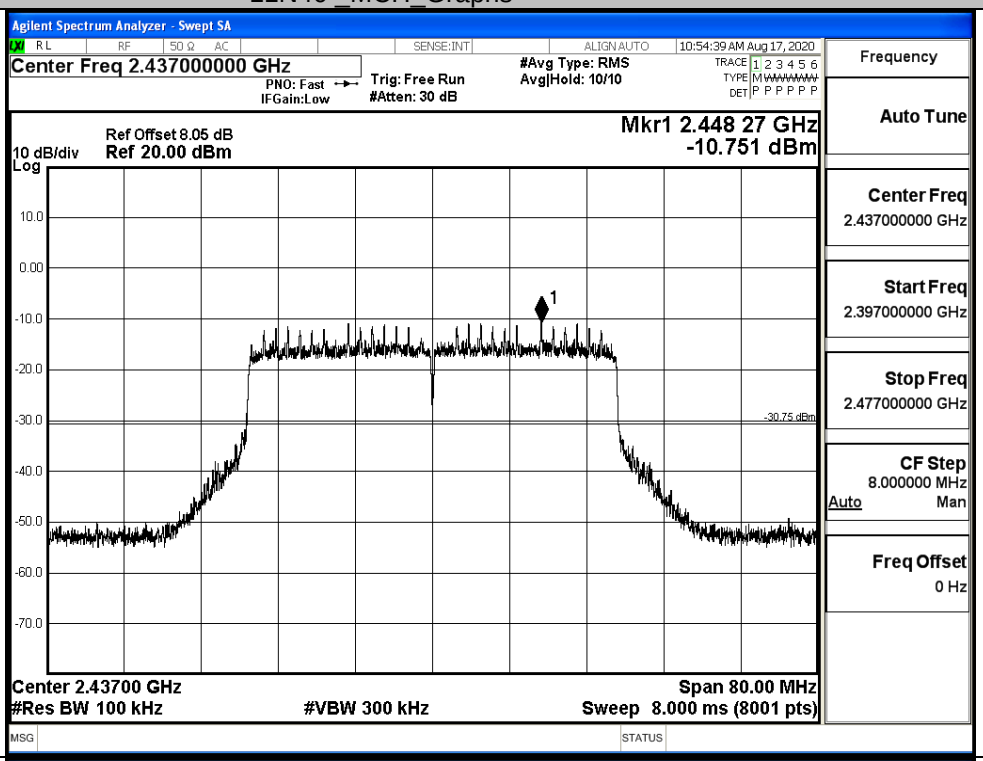
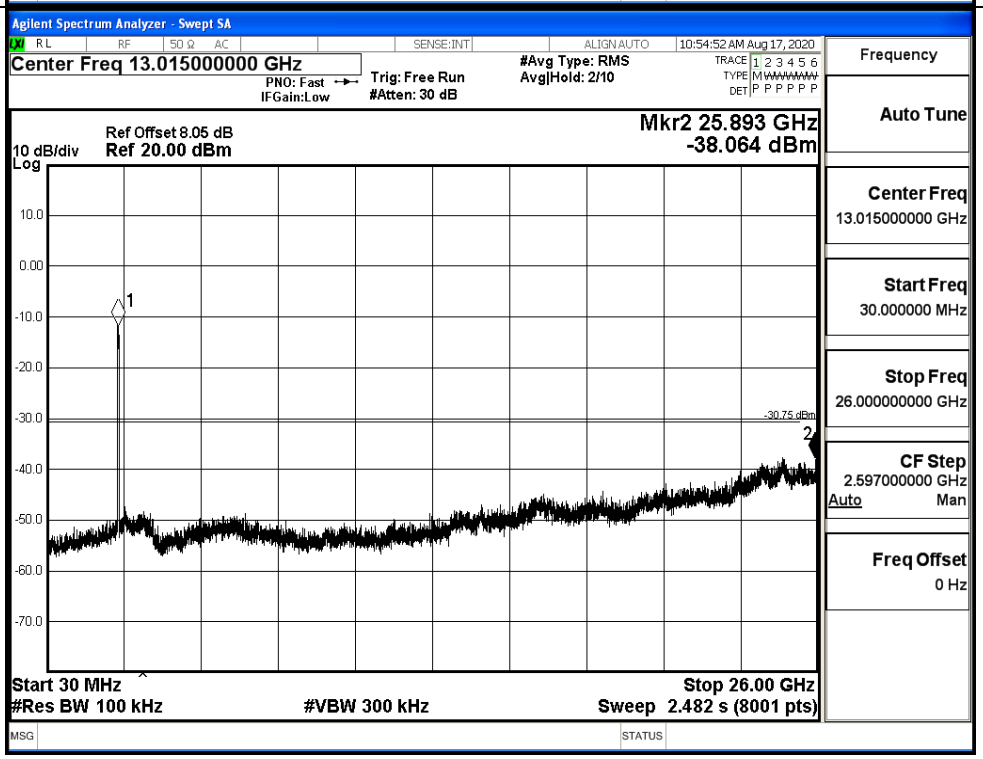
Pref/11N40 /MCH	
Puw/11N40 /MCH	

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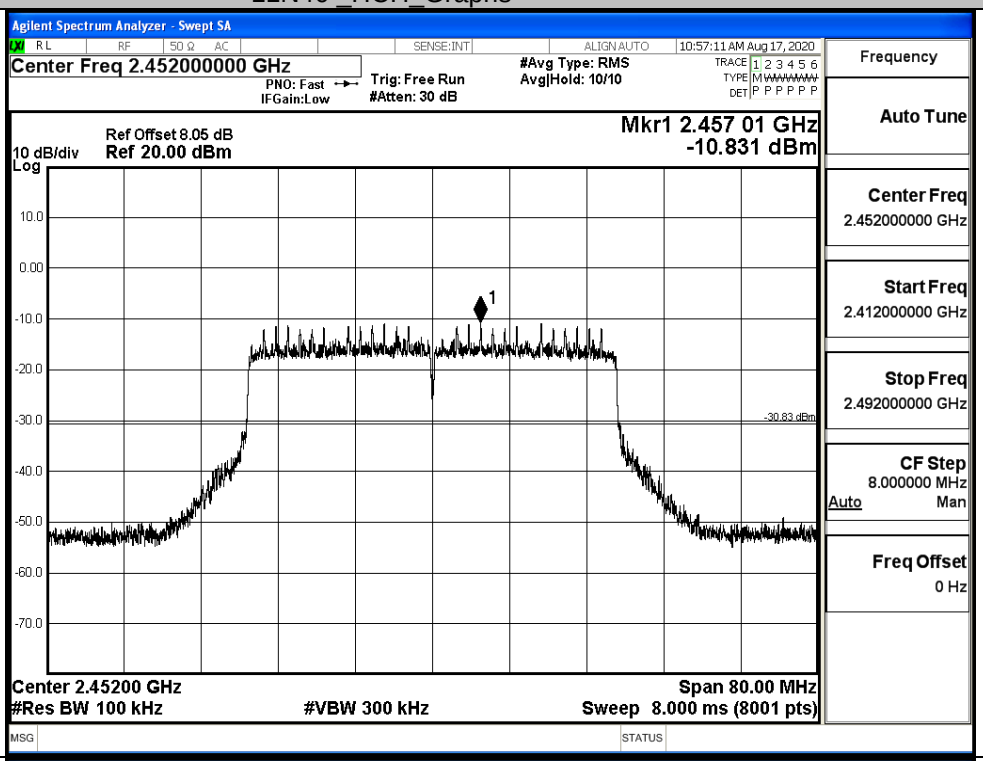
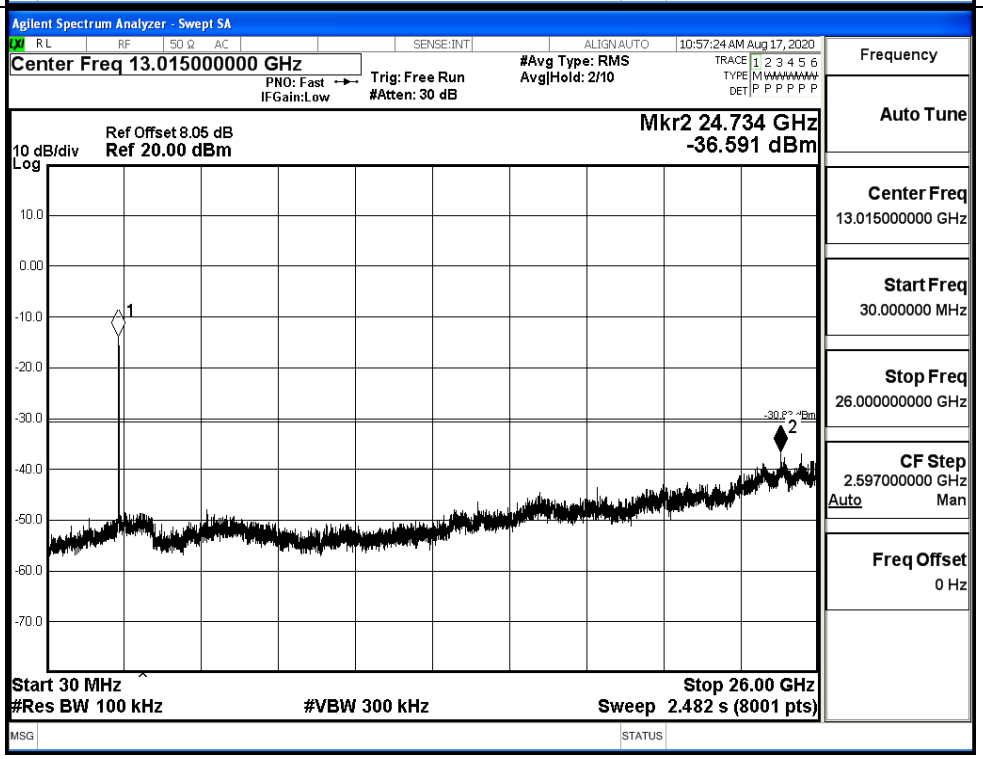
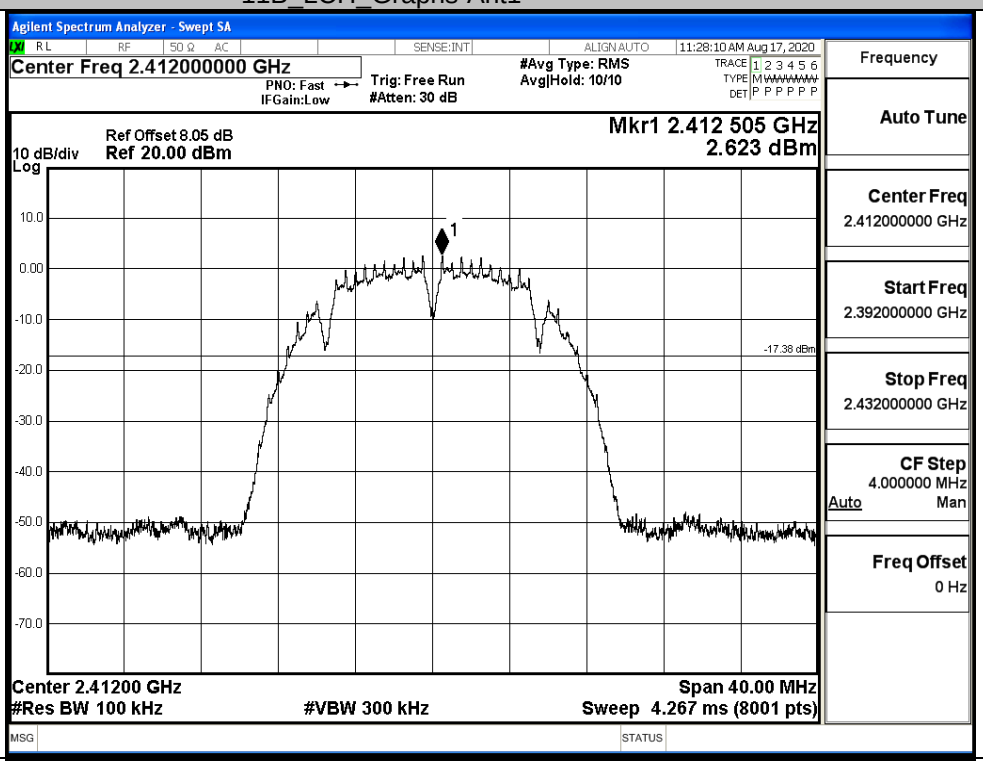
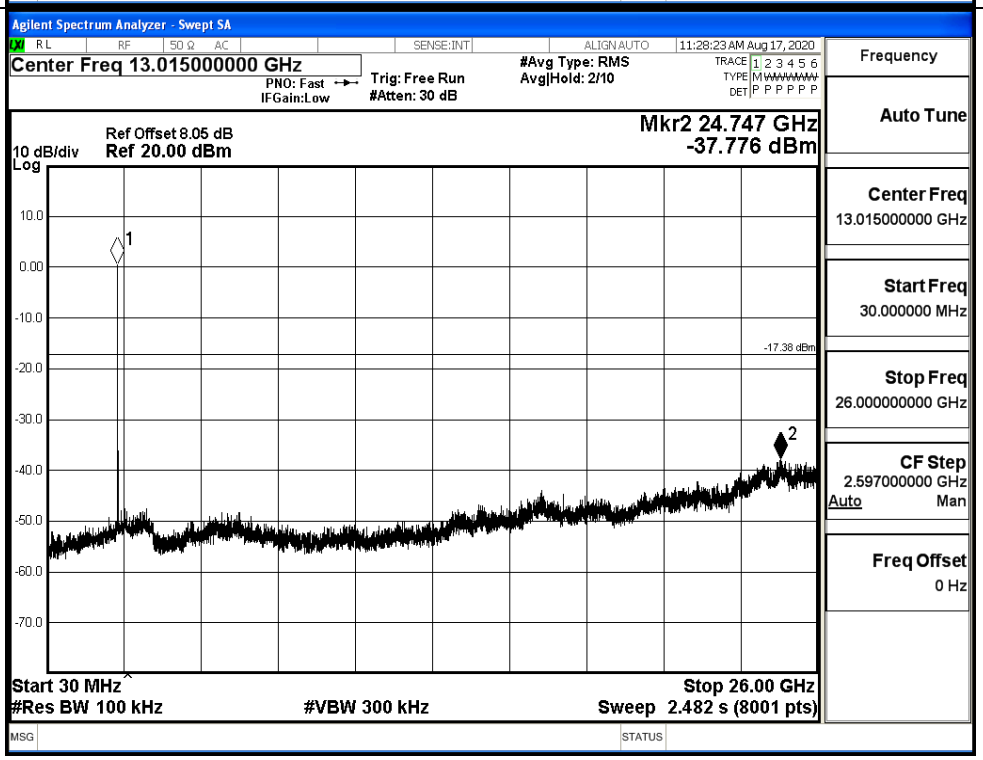
Pref/11N40 /HCH	
Puw/11N40 /HCH	

11B_LCH_Graphs Ant1		
Pref/11B/LCH		
Puw/11B/LCH		

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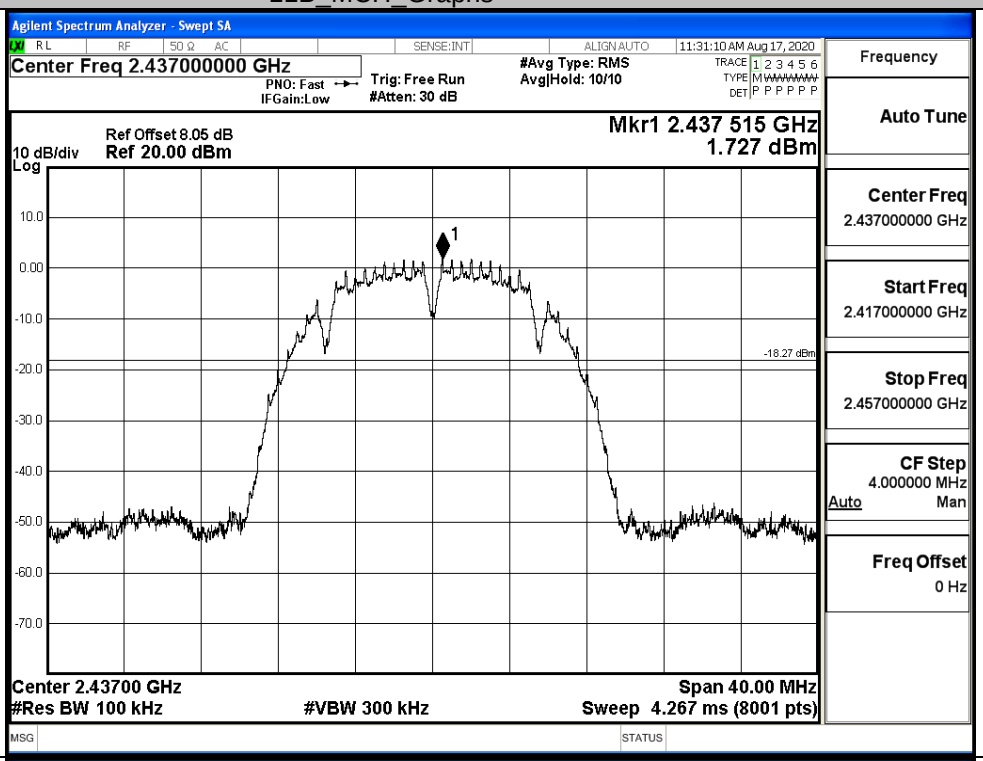
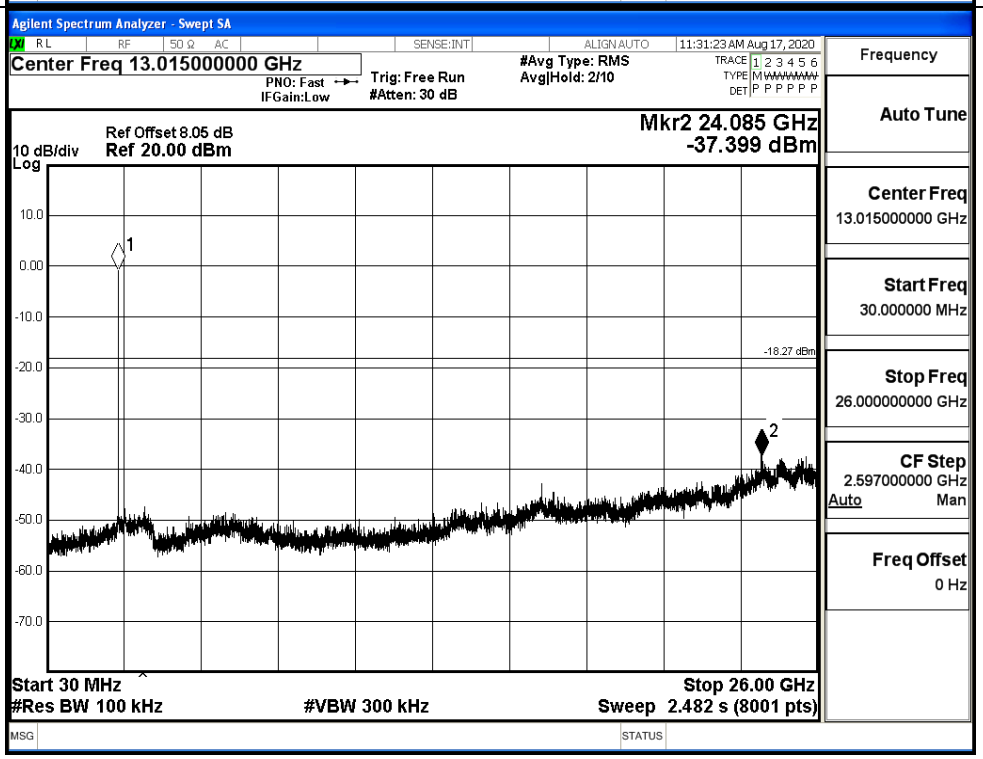
Pref/11B/MCH		
Puw/11B/MCH		

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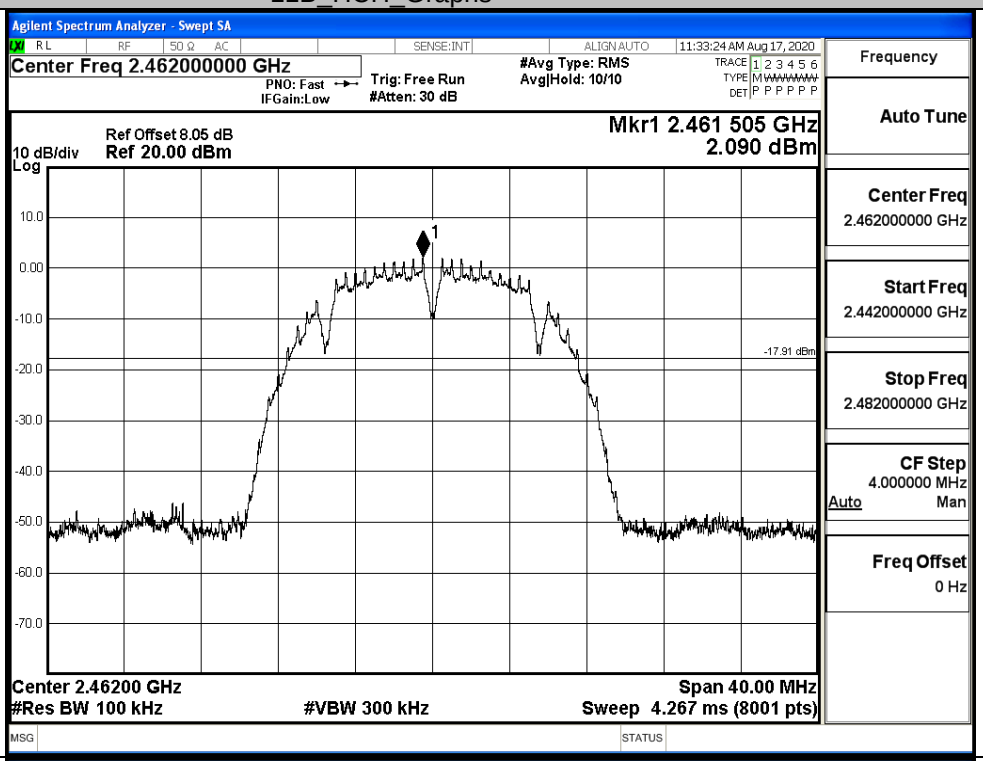
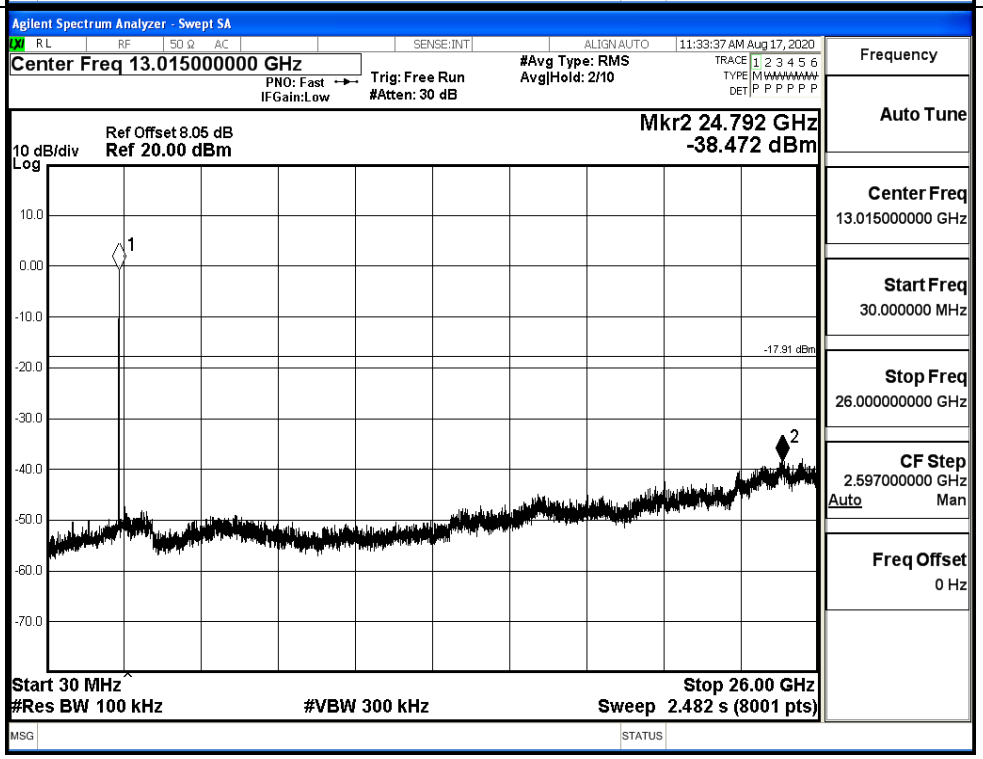
Pref/11B/HCH	
Puw/11B/HCH	

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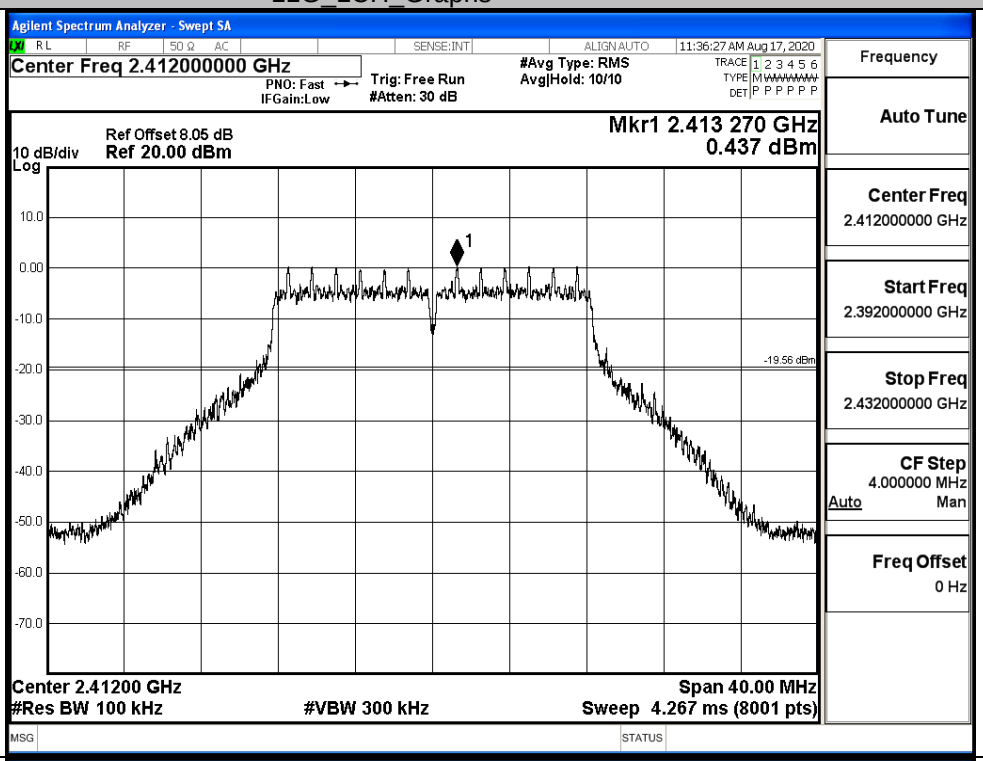
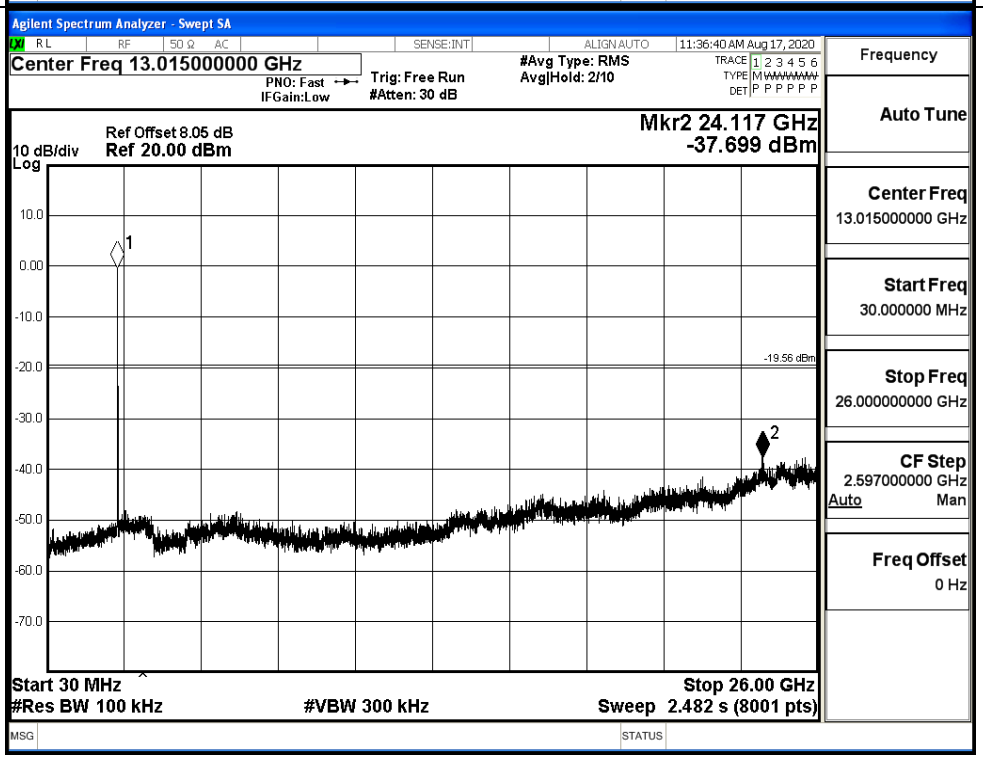
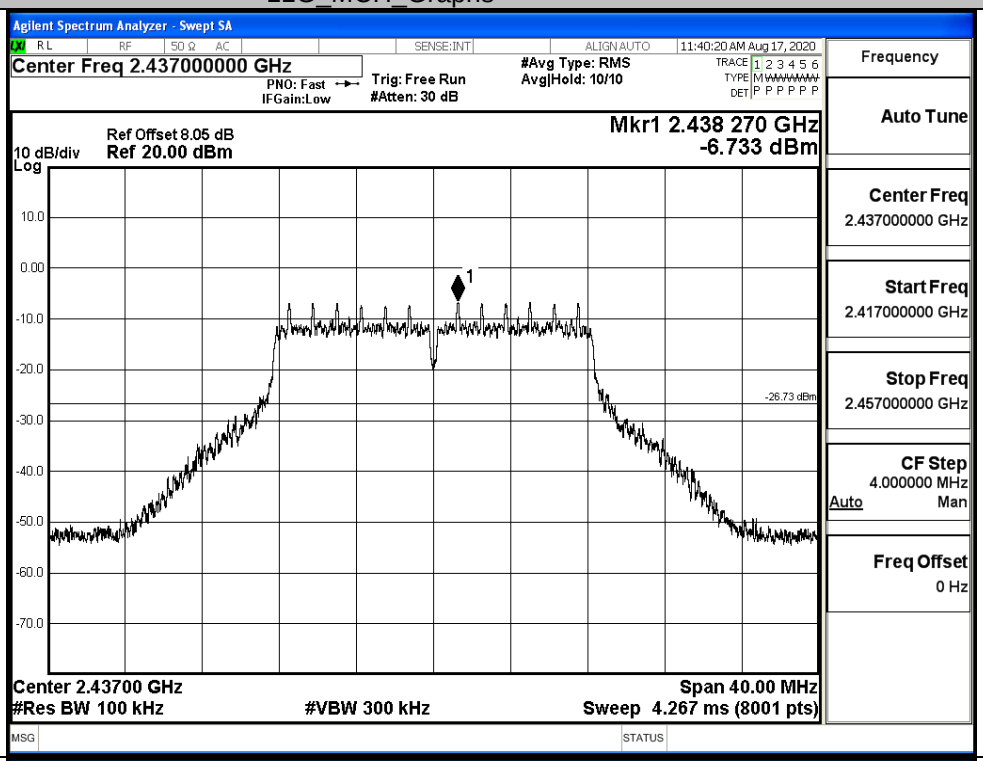
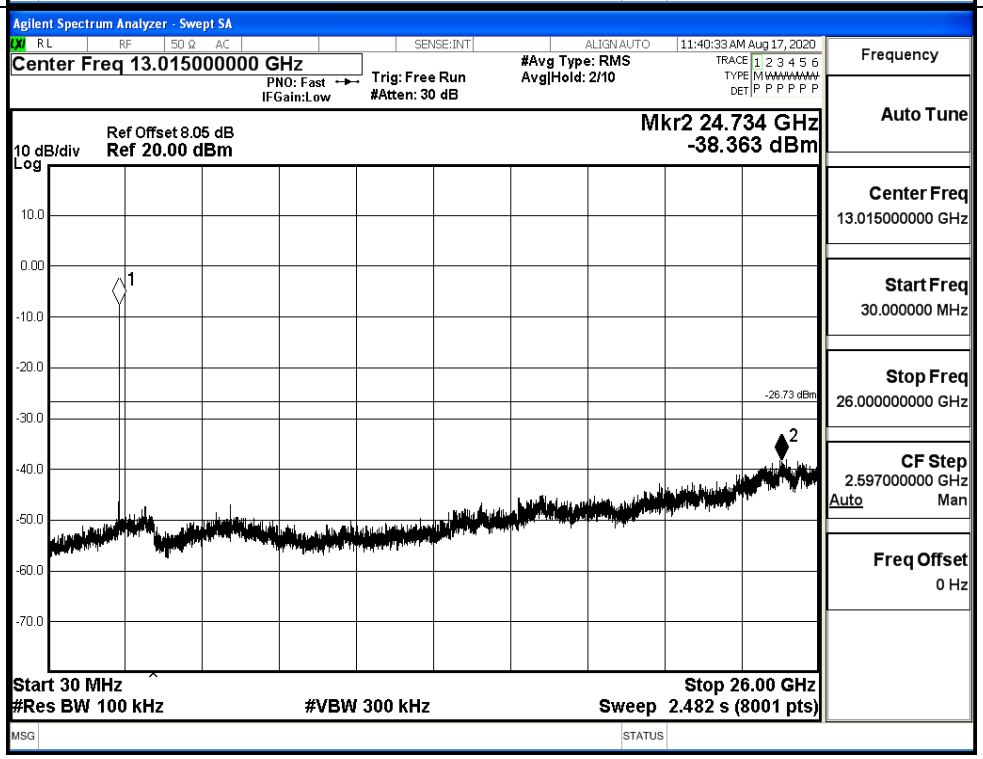
Pref/11G/LCH	
Puw/11G/LCH	

11G_MCH_Graphs	
Pref/11G/MCH	
Puw/11G/MCH	

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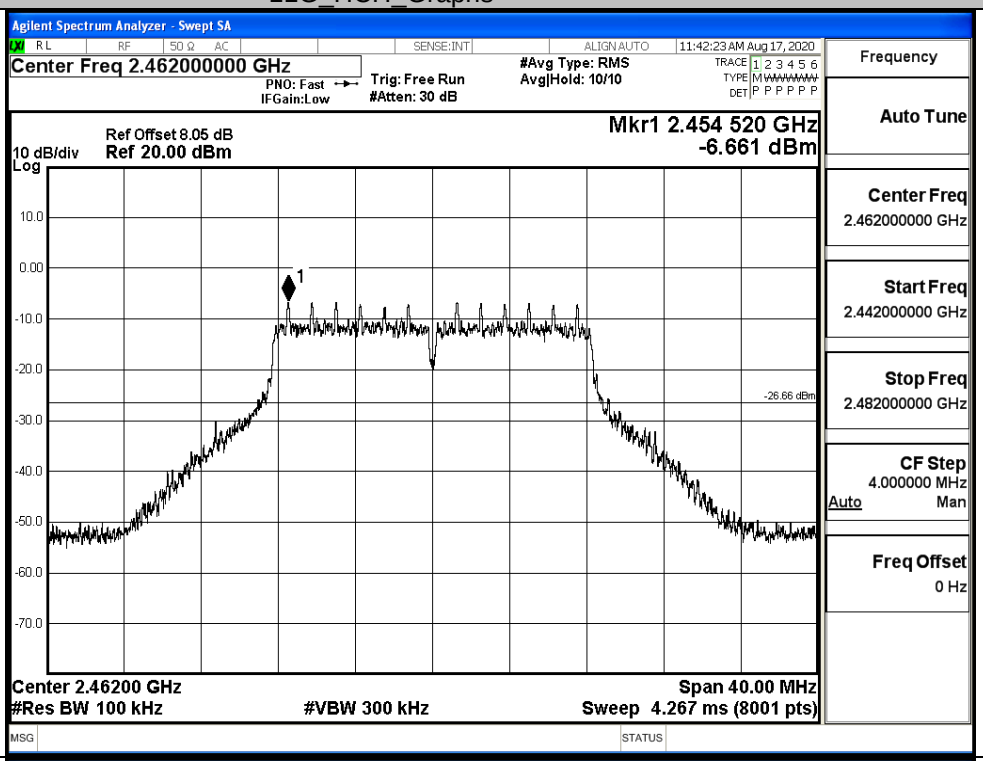
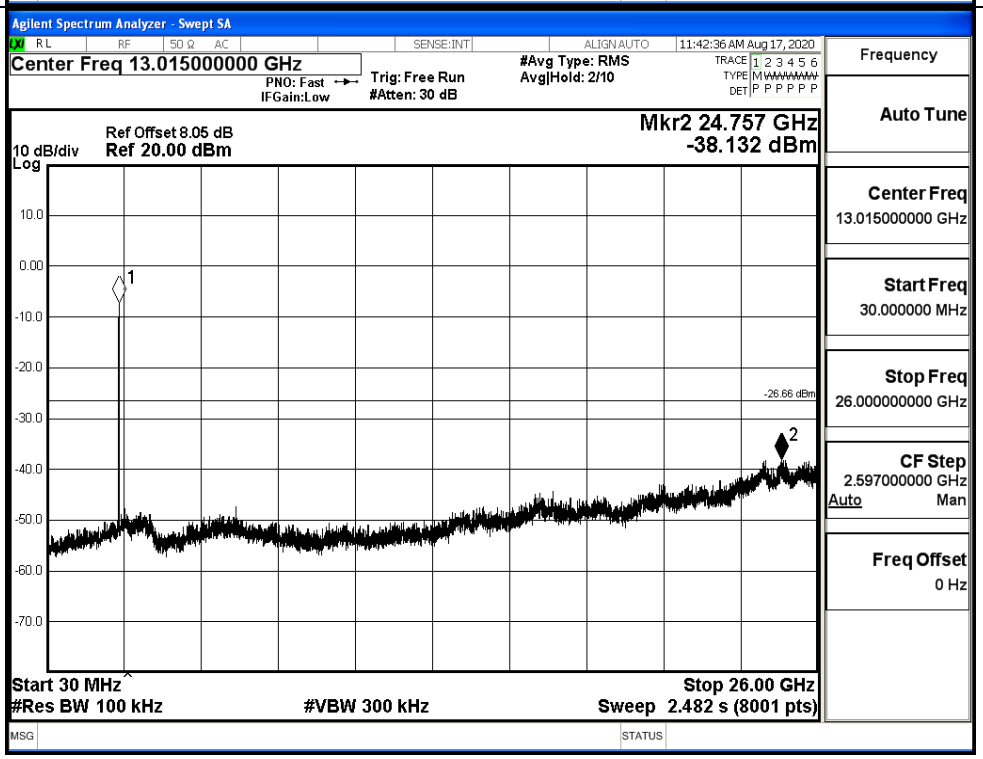
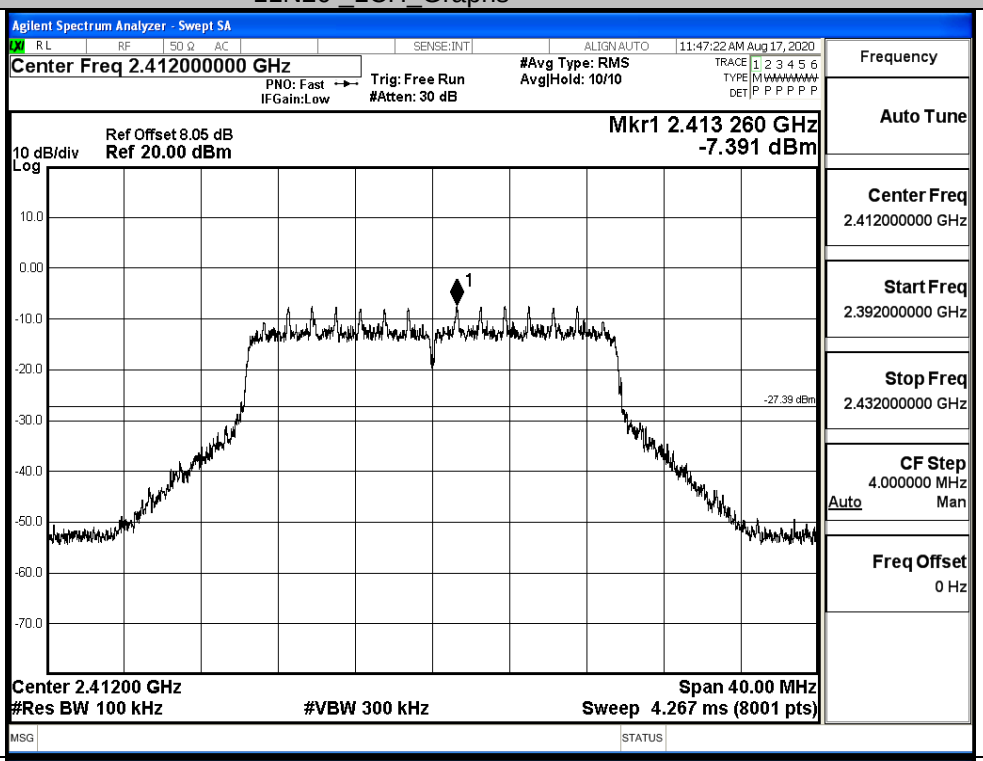
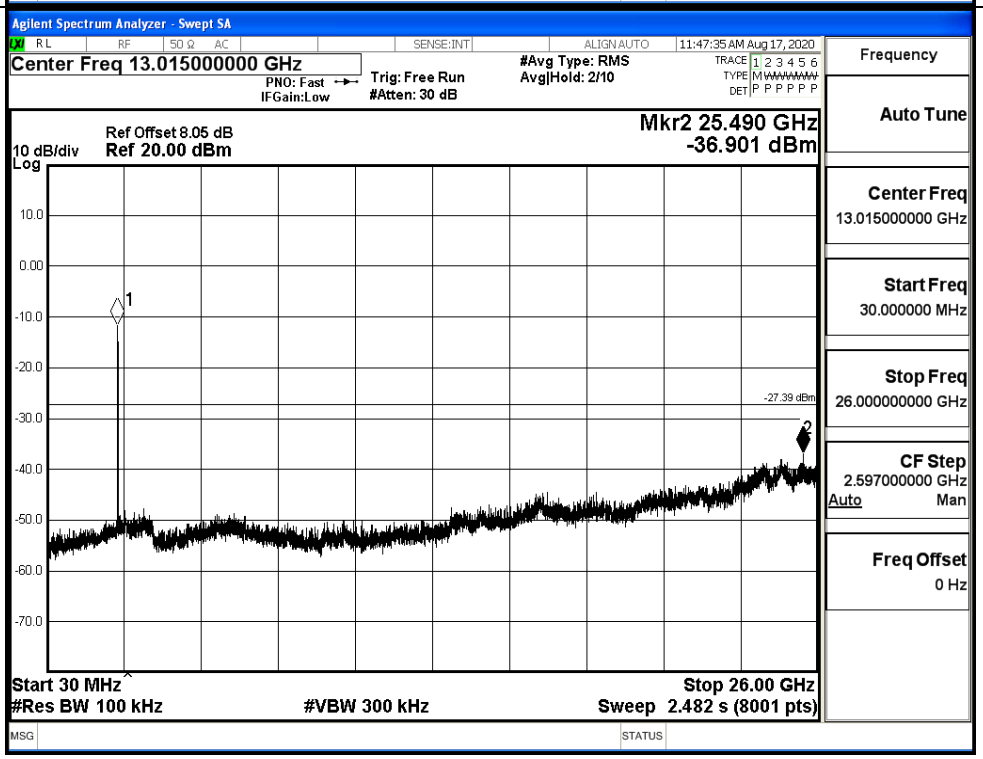
Pref/11G/HCH		
Puw/11G/HCH		

11N20 _LCH_Graphs	
Pref/11N20 /LCH	
Puw/11N20 /LCH	

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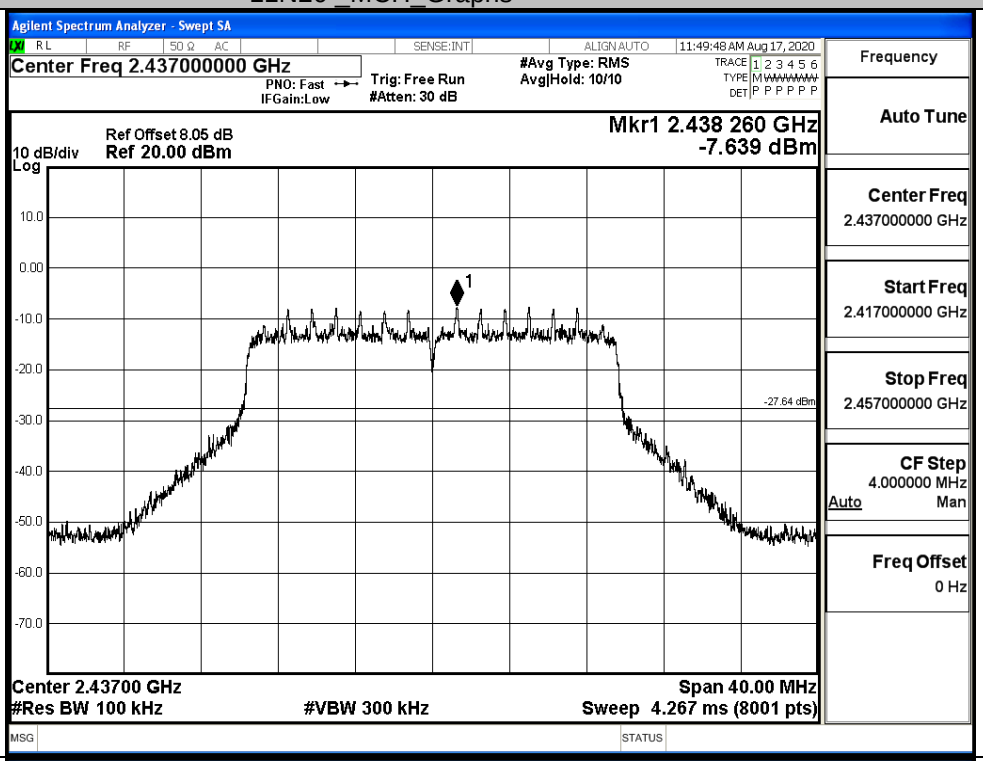
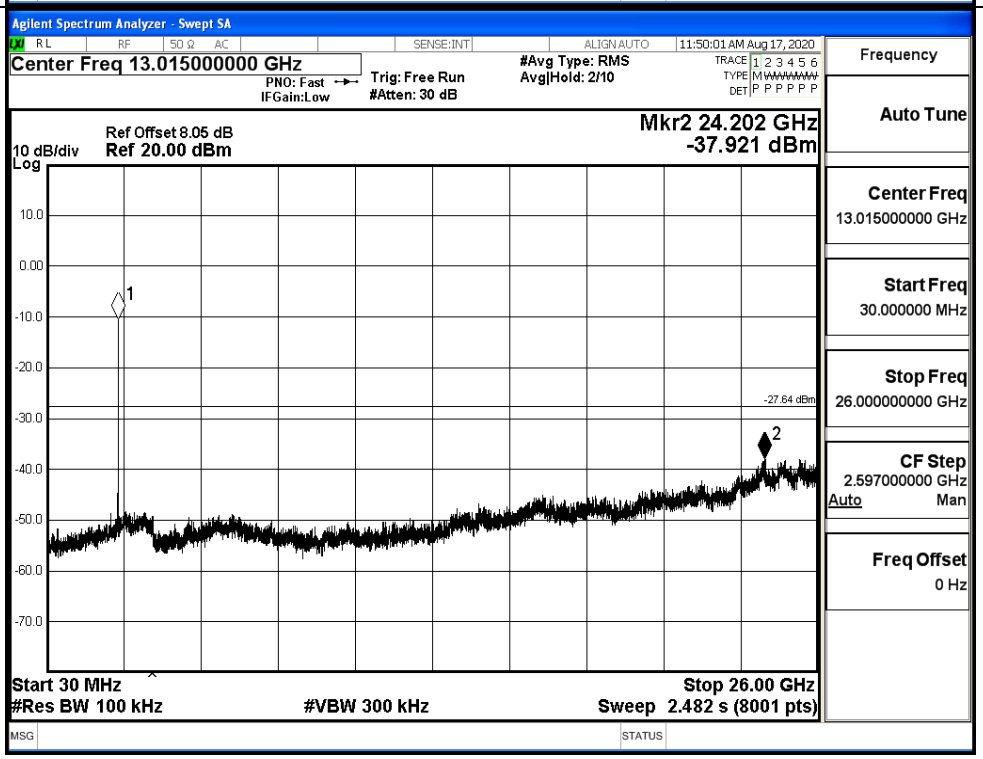
Pref/11N20 /MCH	
Puw/11N20 /MCH	

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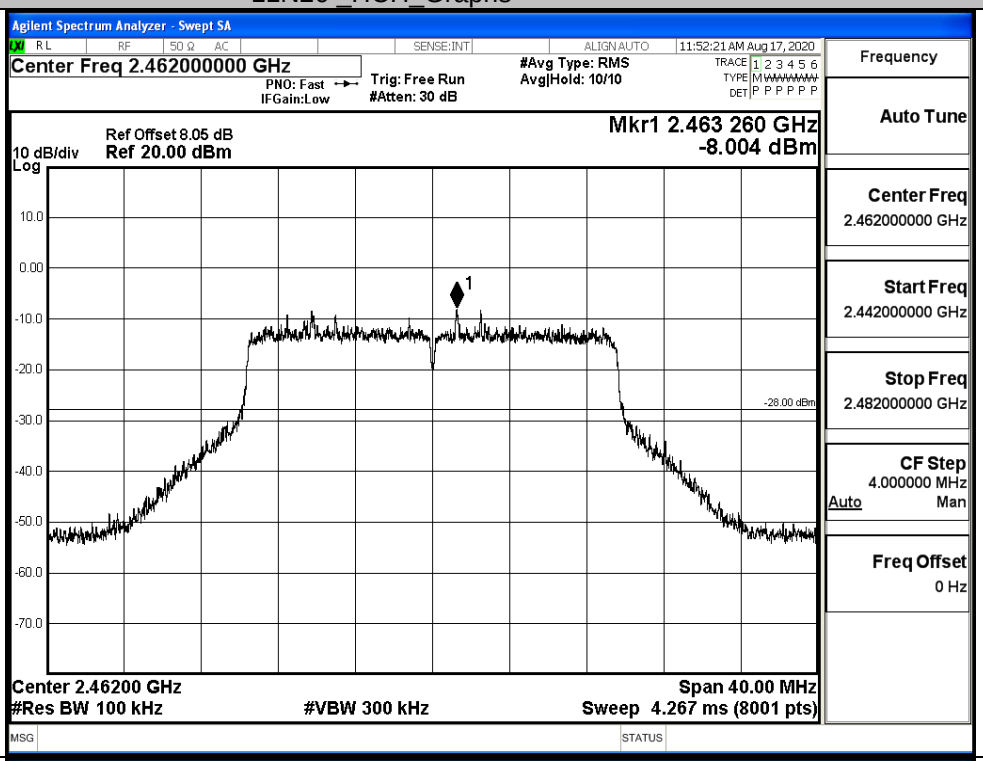
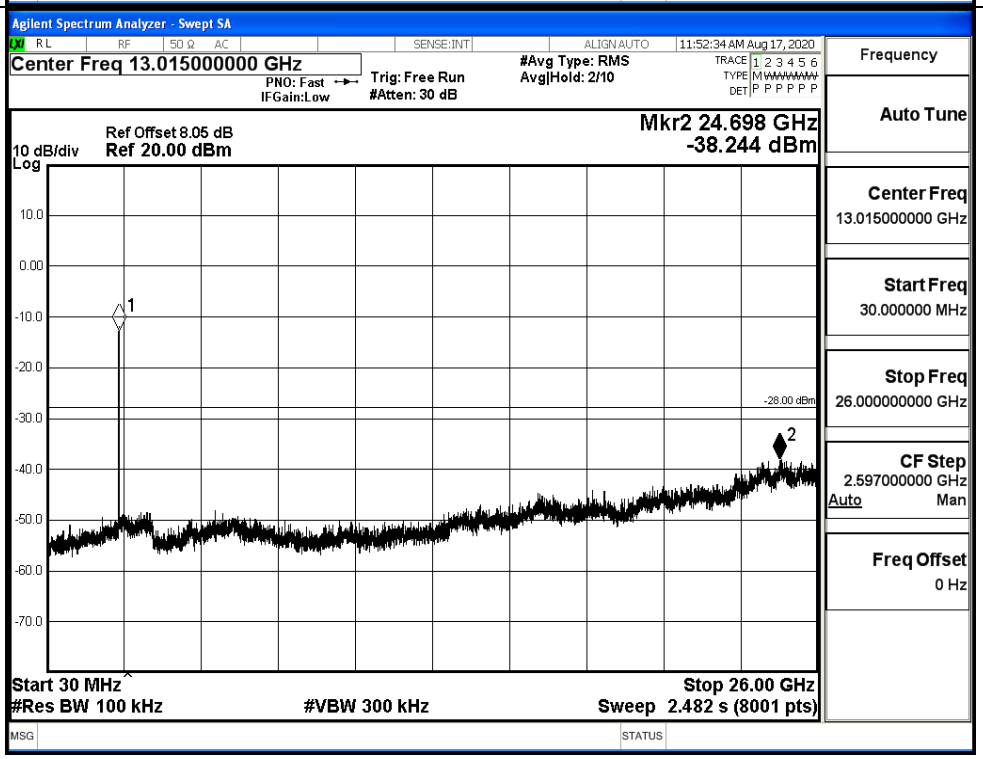
Pref/11N20 /HCH	
Puw/11N20 /HCH	

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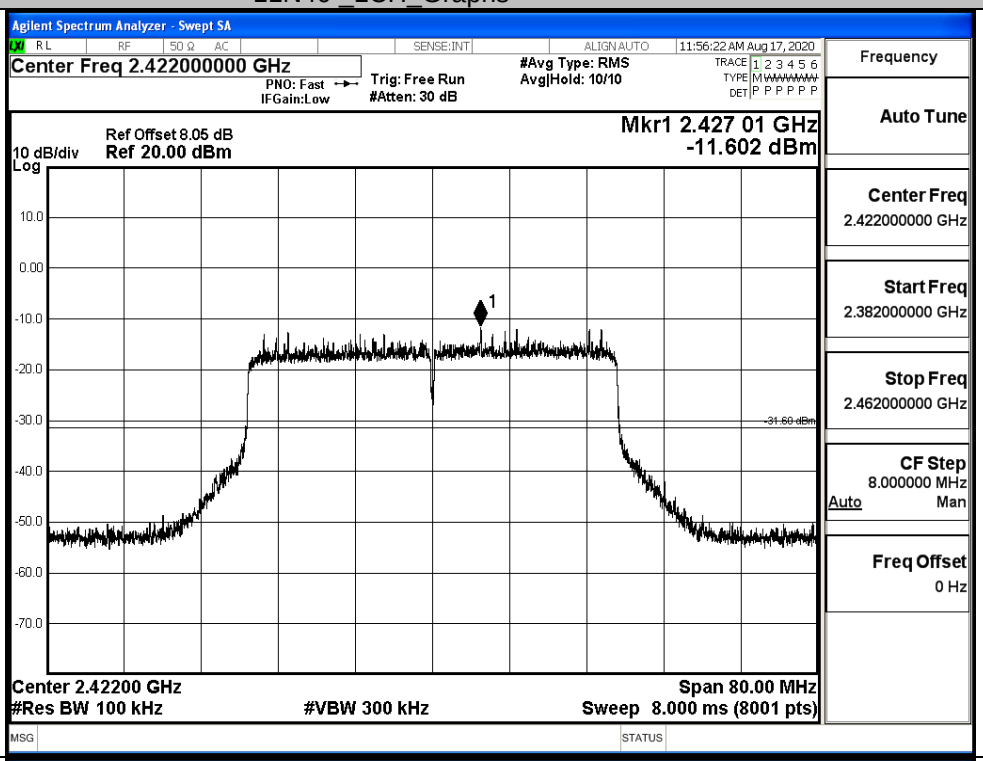
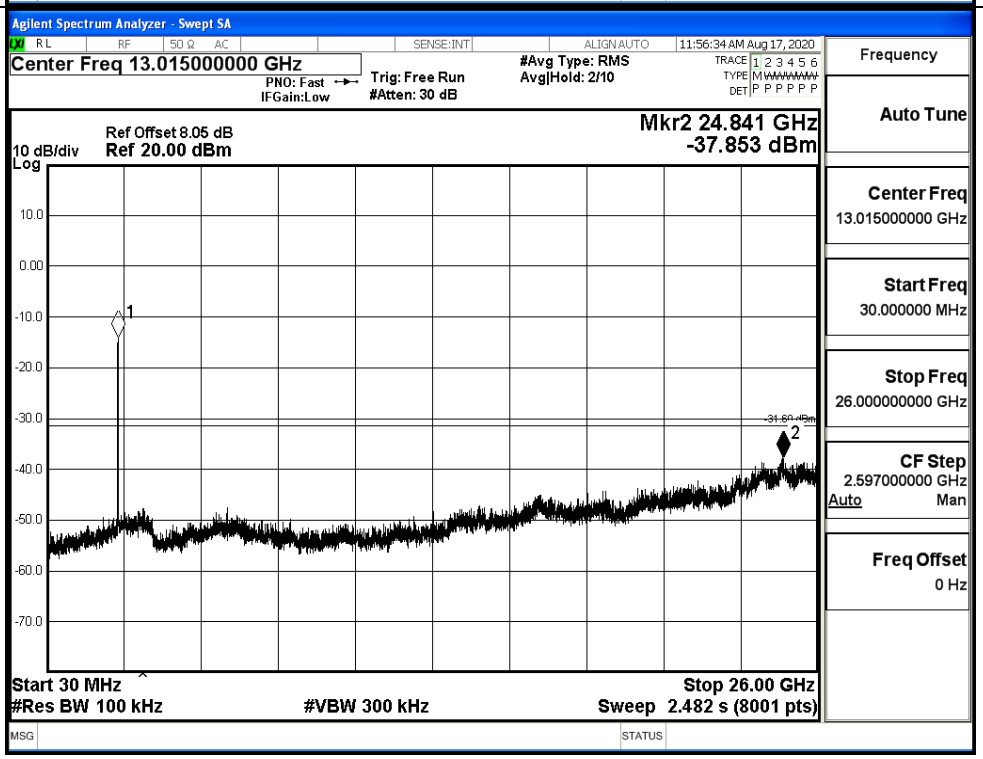
Pref/11N40 /LCH		
Puw/11N40 /LCH		

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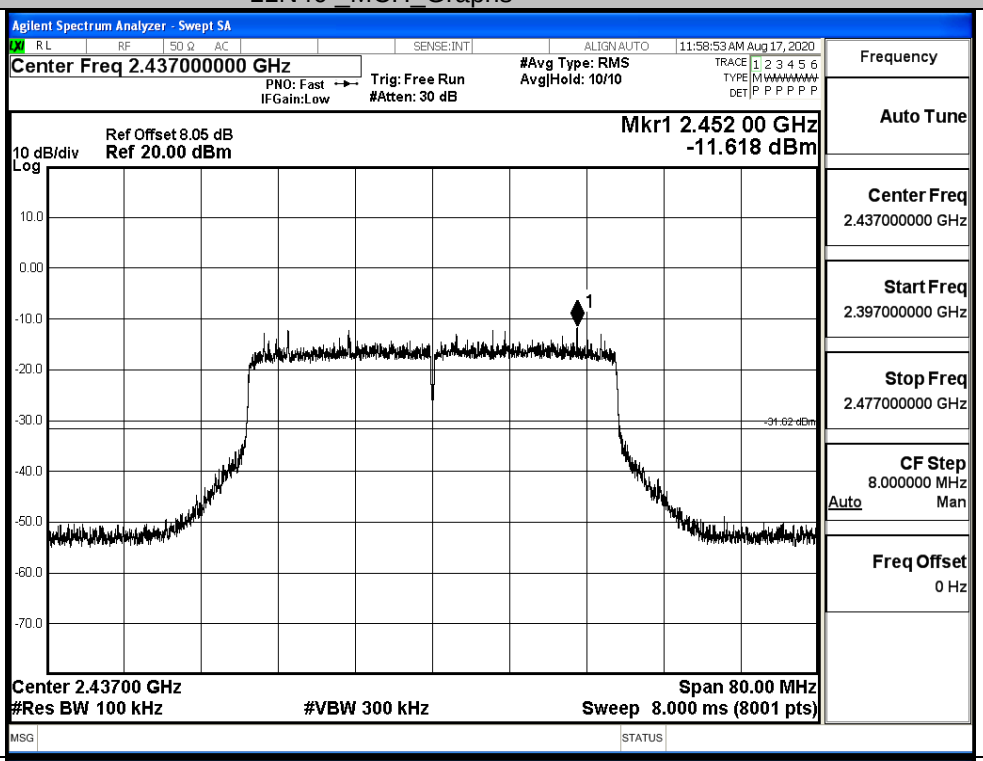
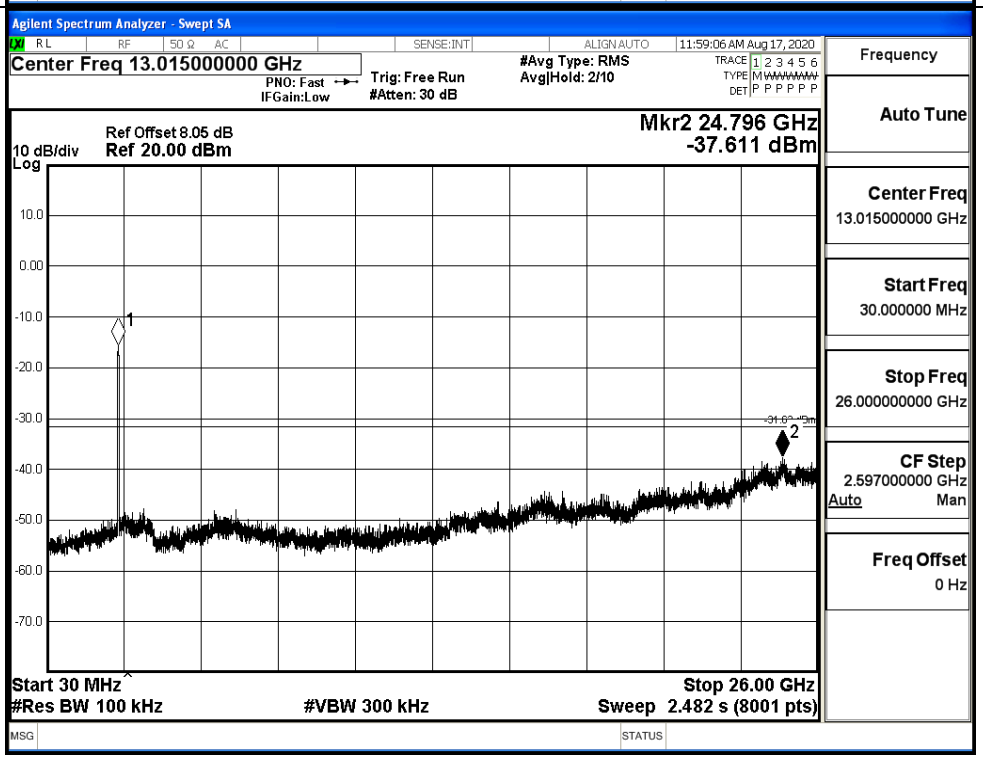
Pref/11N40 /MCH	
Puw/11N40 /MCH	

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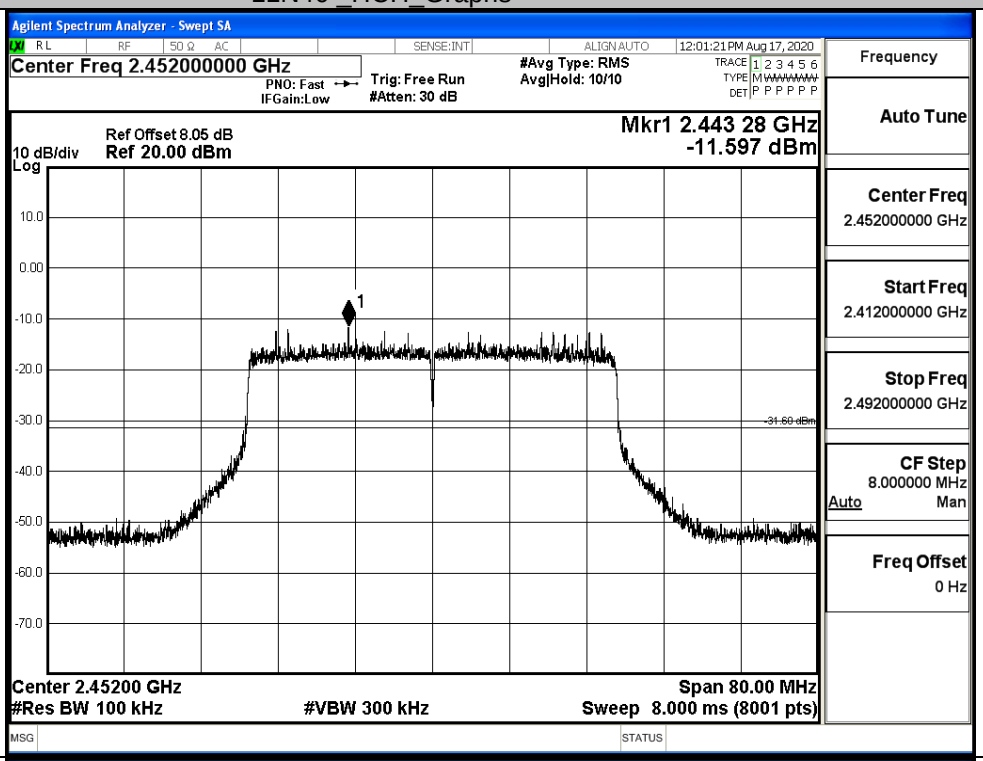
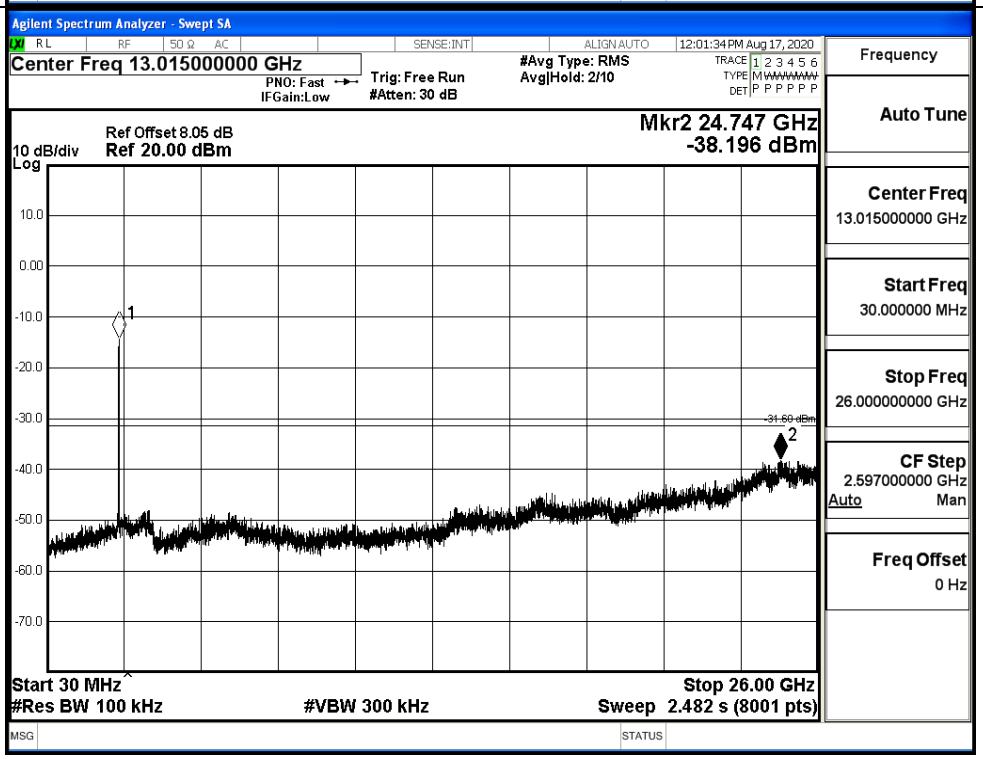
Pref/11N40 /HCH		
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