Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Kraydel Hub

Trade Mark: Kraydel

Test Model: Konnect

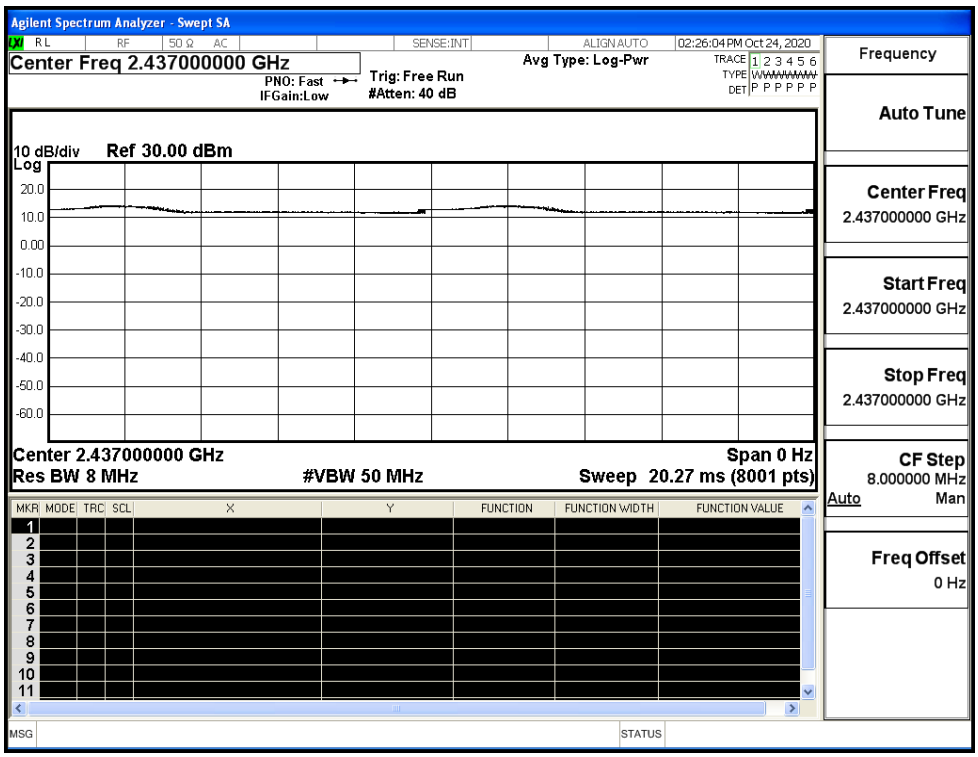
Environmental Conditions

Temperature:	25.5 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.5 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

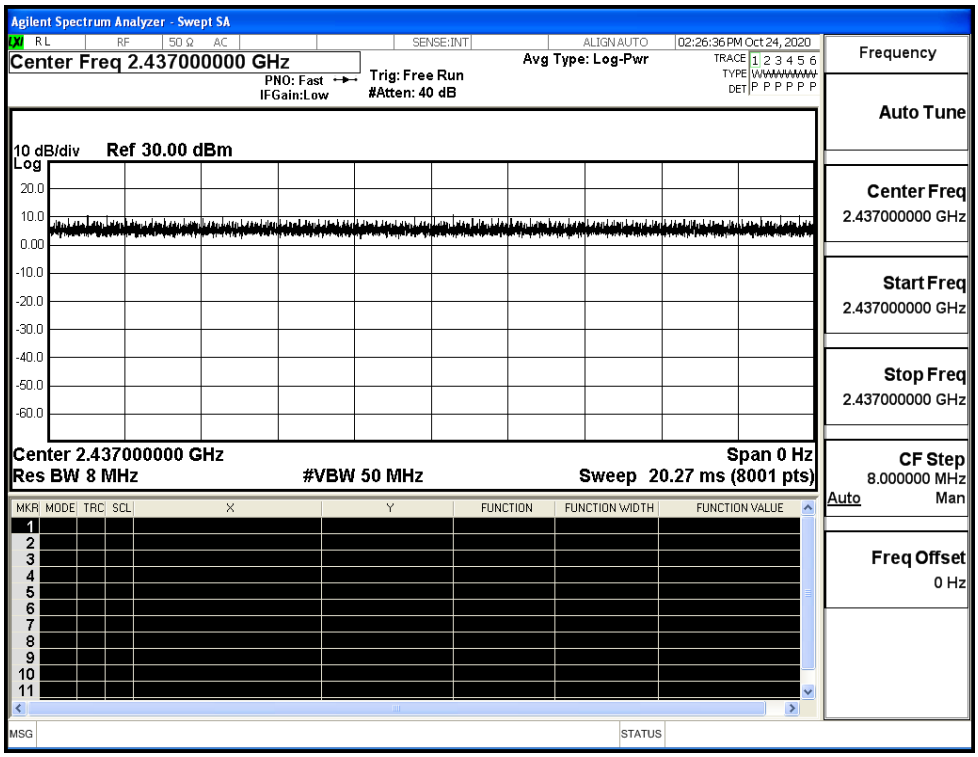
C.1 Duty Cycle

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

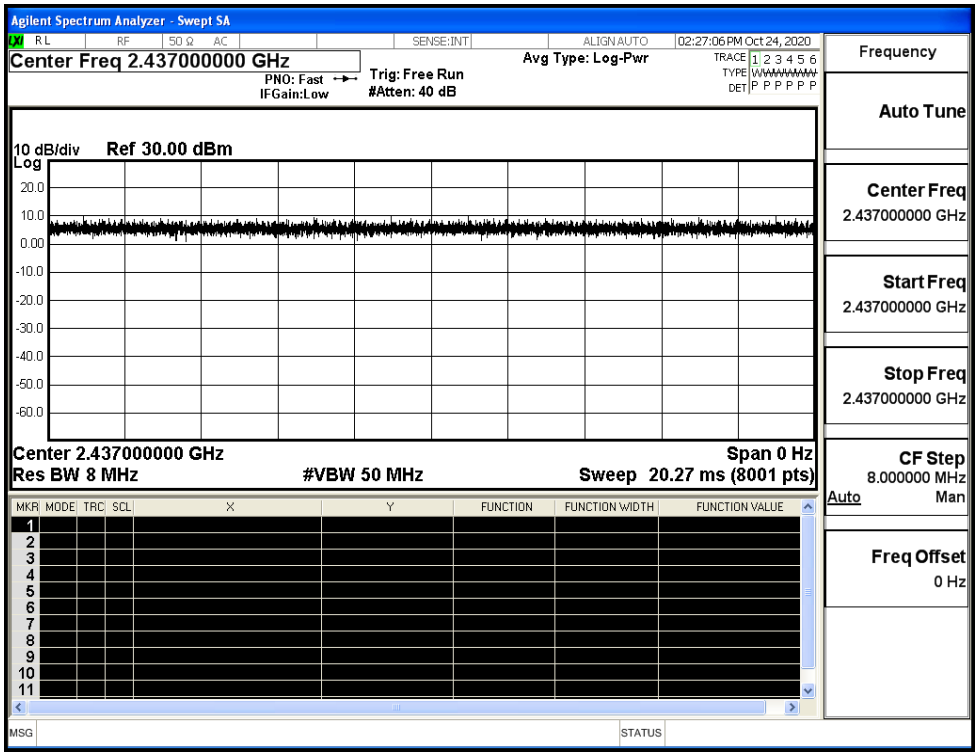
Duty Cycle_11B_2437_Ant0



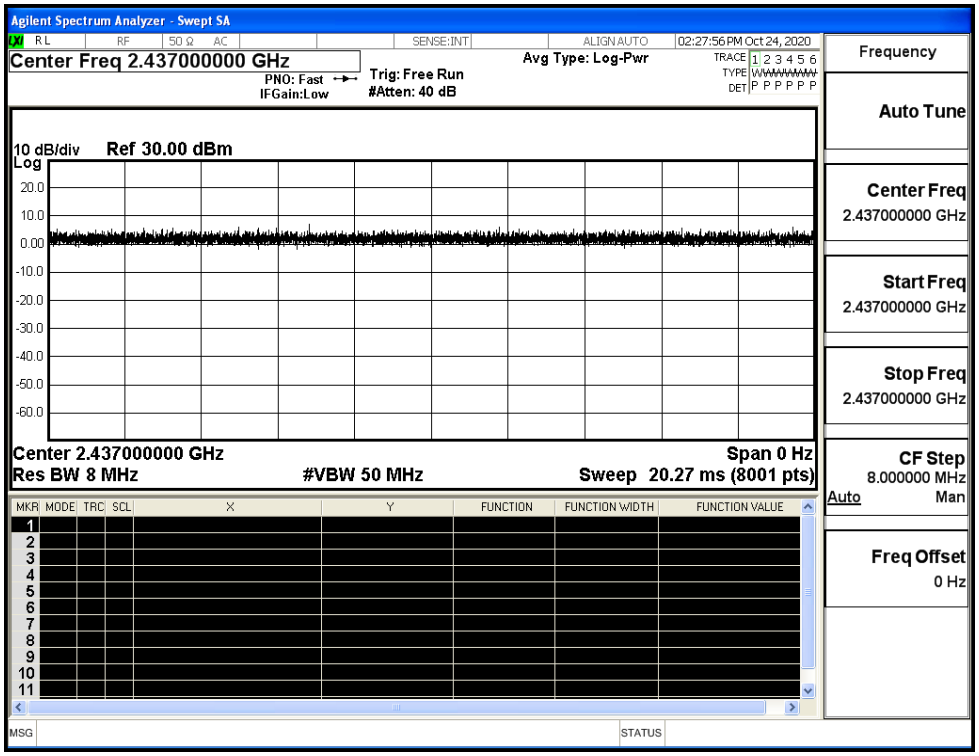
Duty Cycle_11G_2437_Ant0



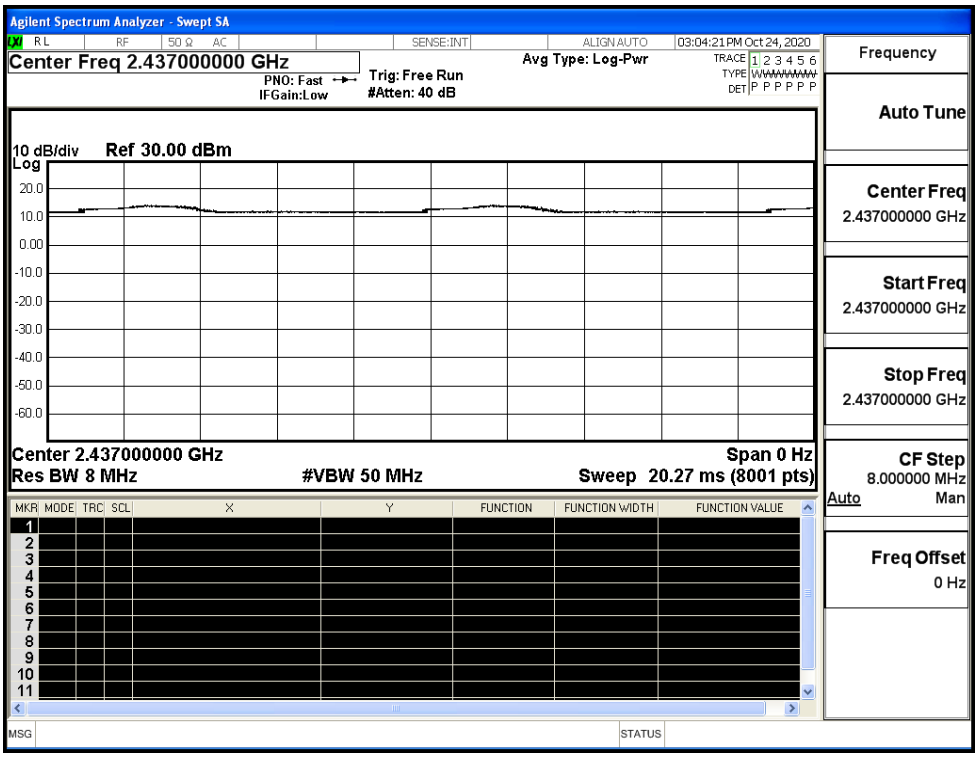
Duty Cycle_11N20SISO_2437_Ant0



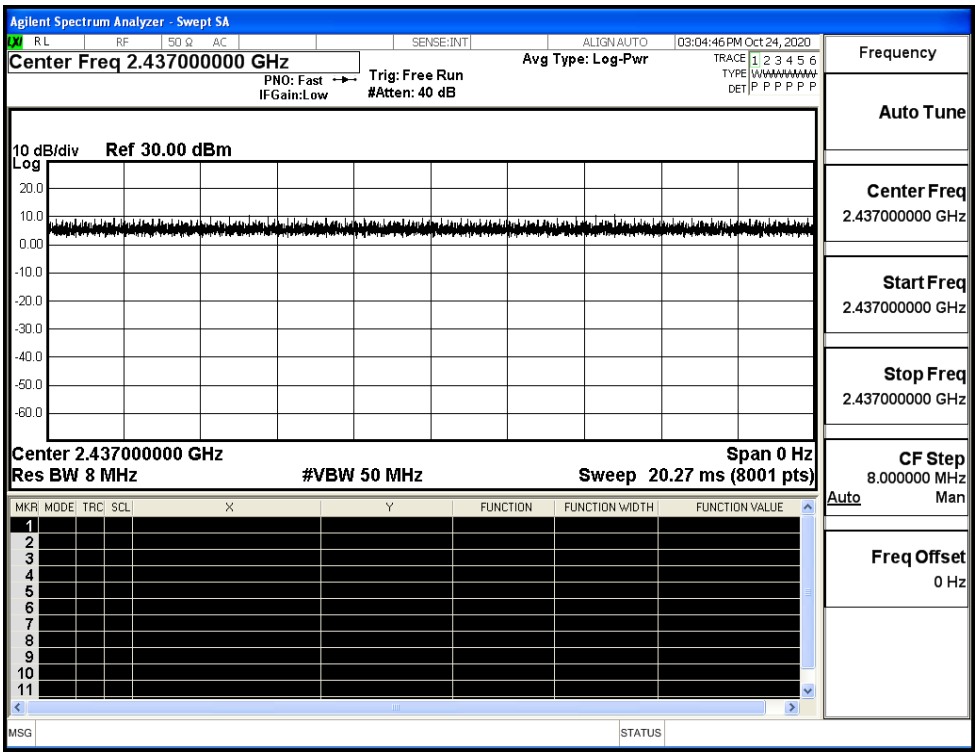
Duty Cycle_11N40SISO_2437_Ant0



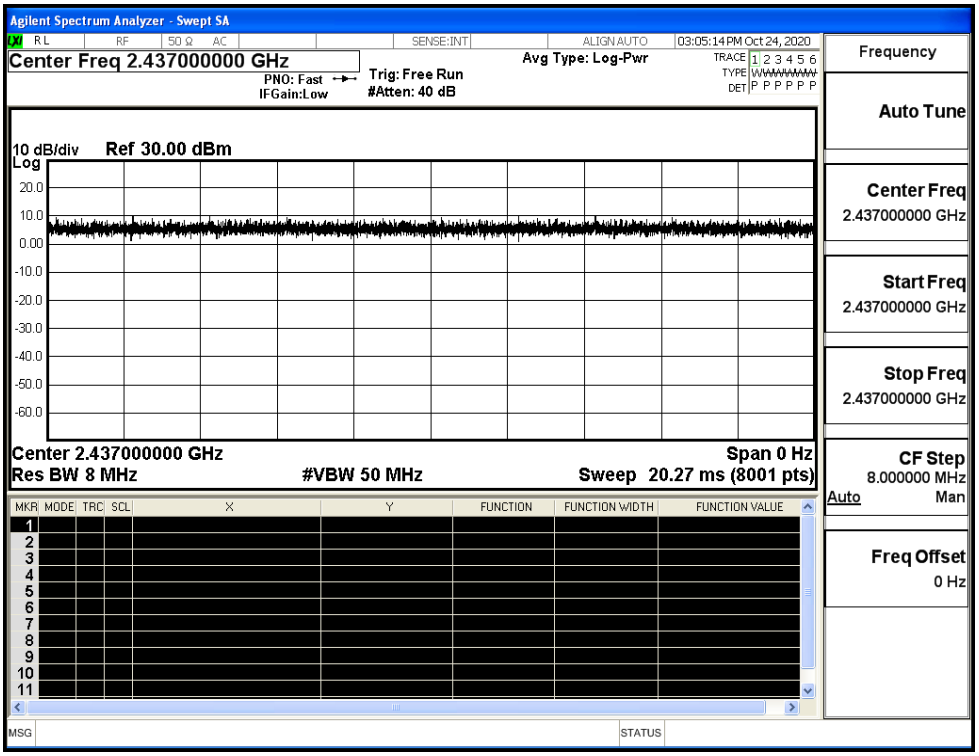
Duty Cycle_11B_2437_Ant1



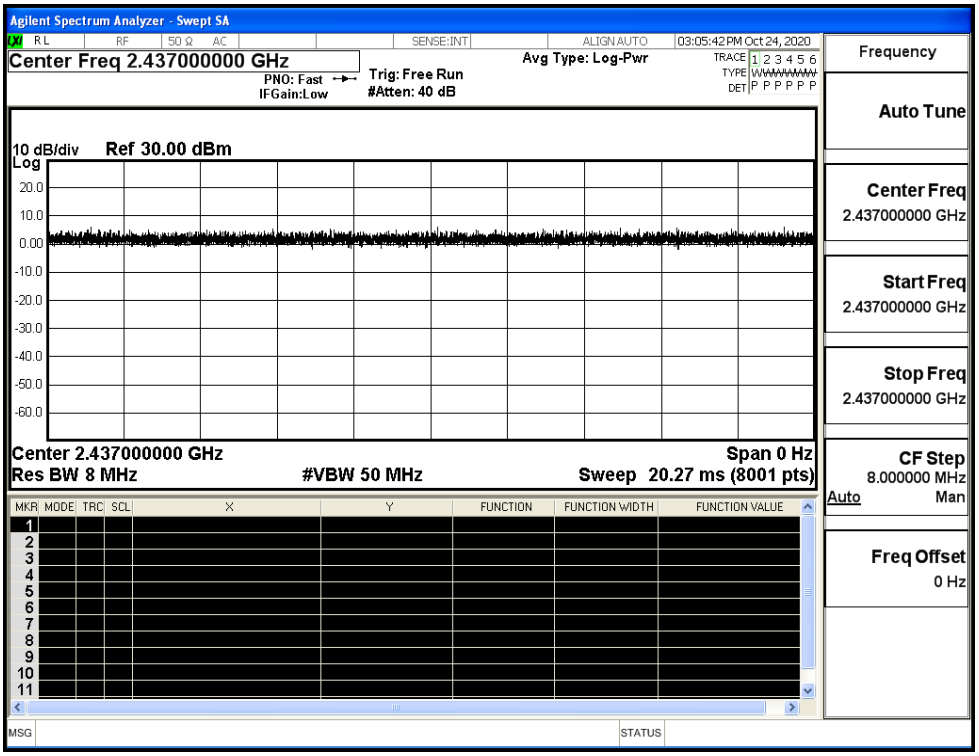
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1

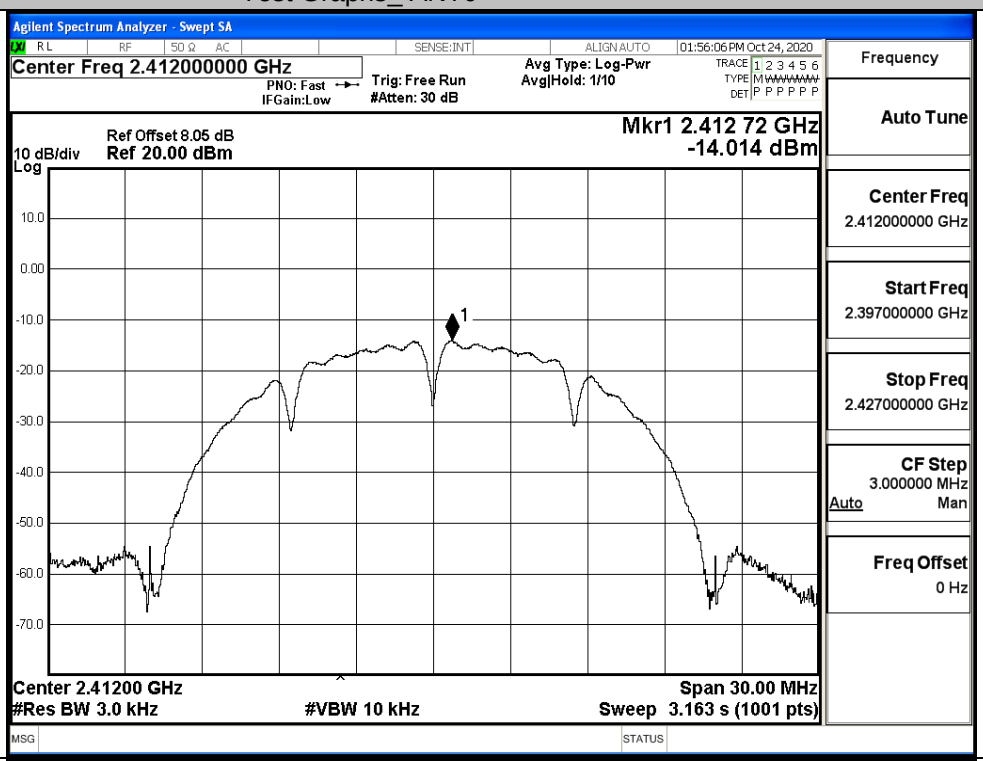
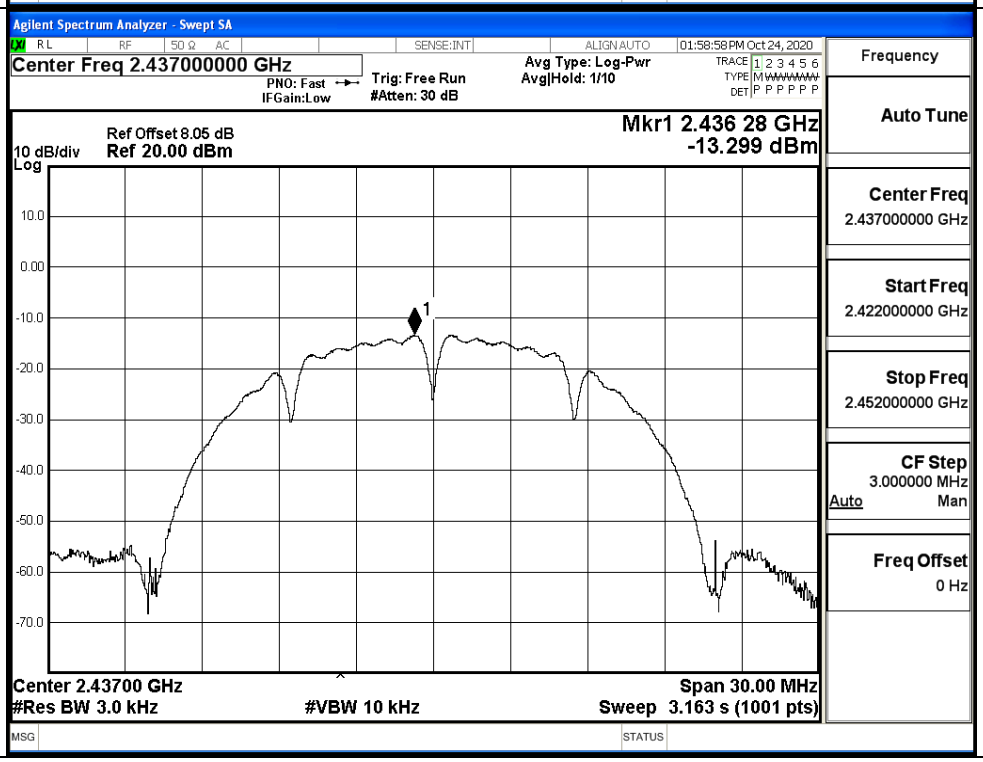


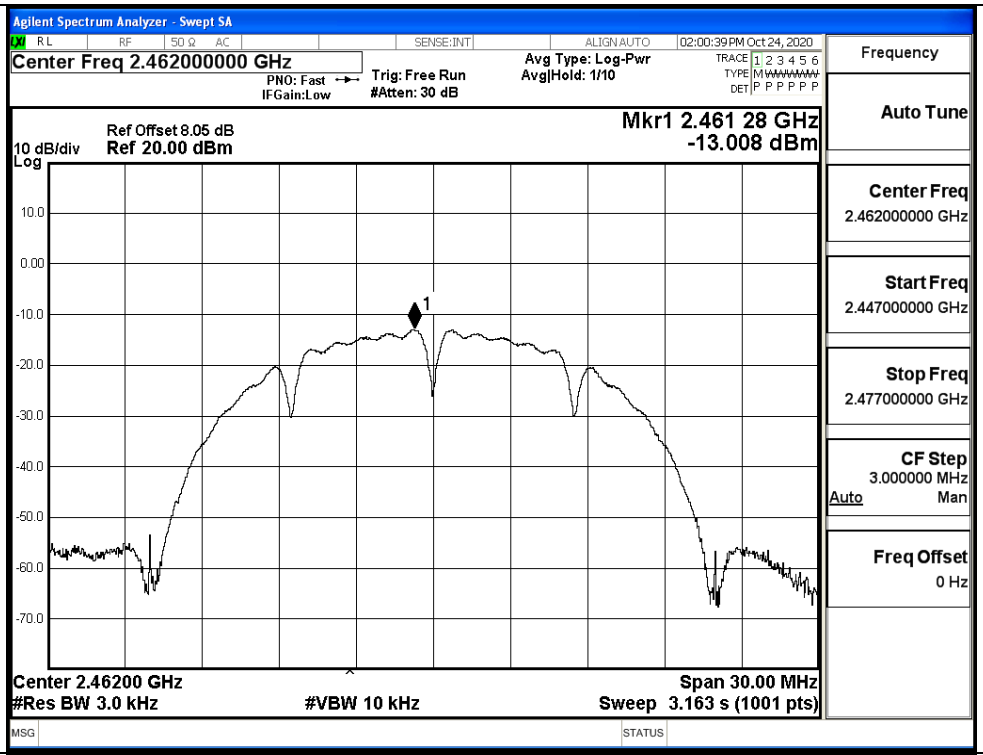
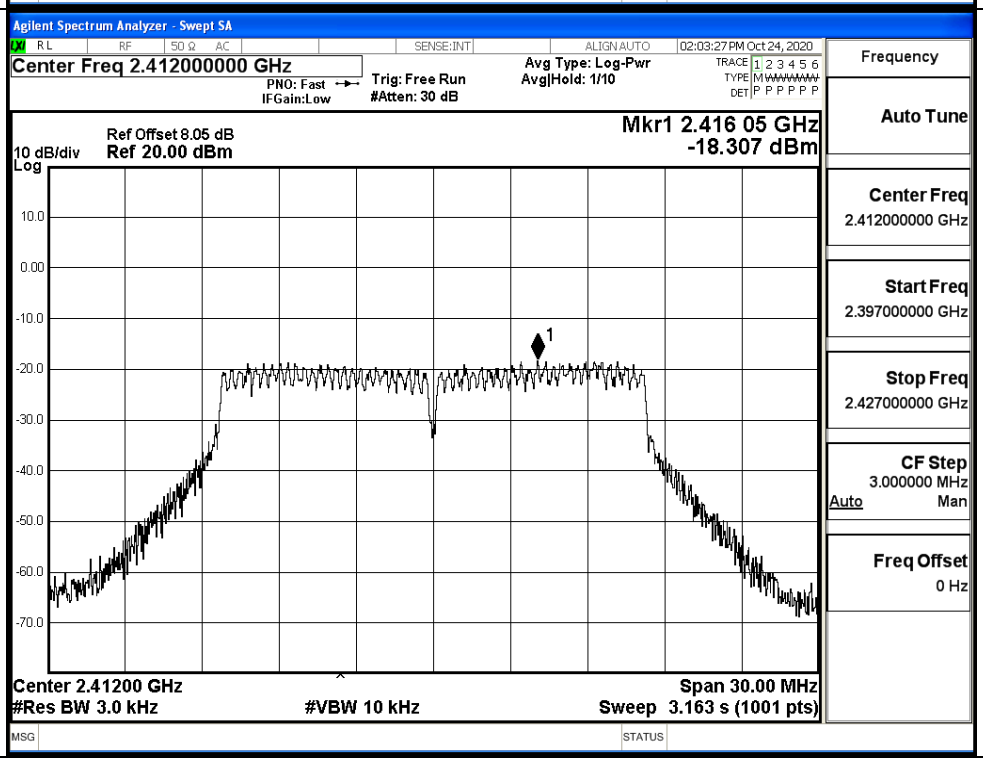
C.2 Maximum Conducted Output Power

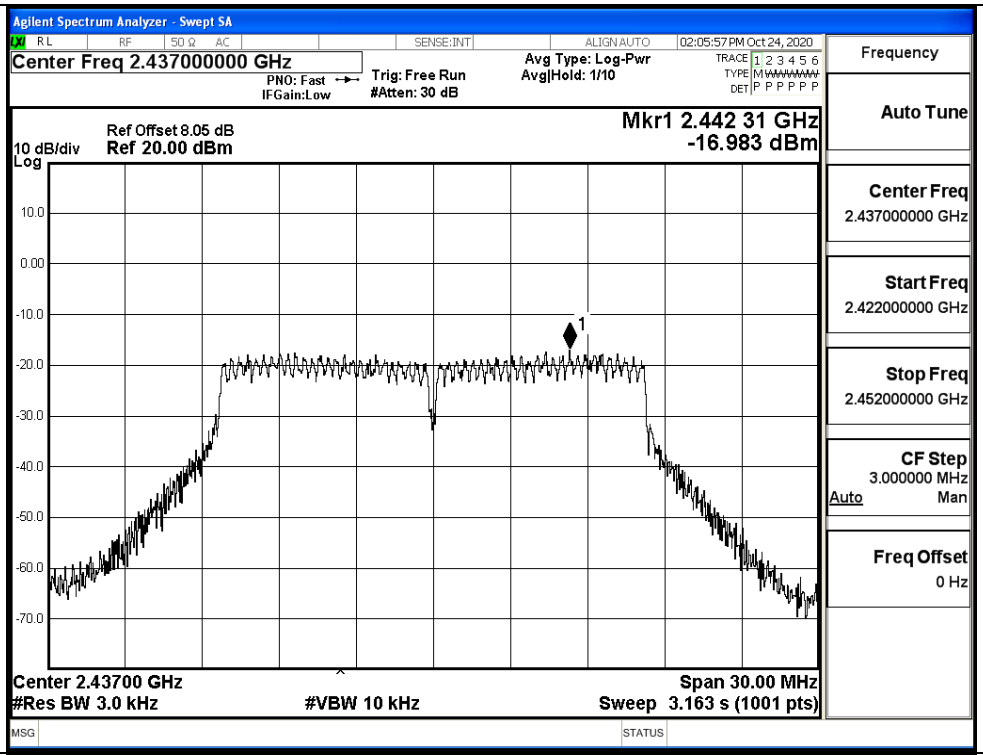
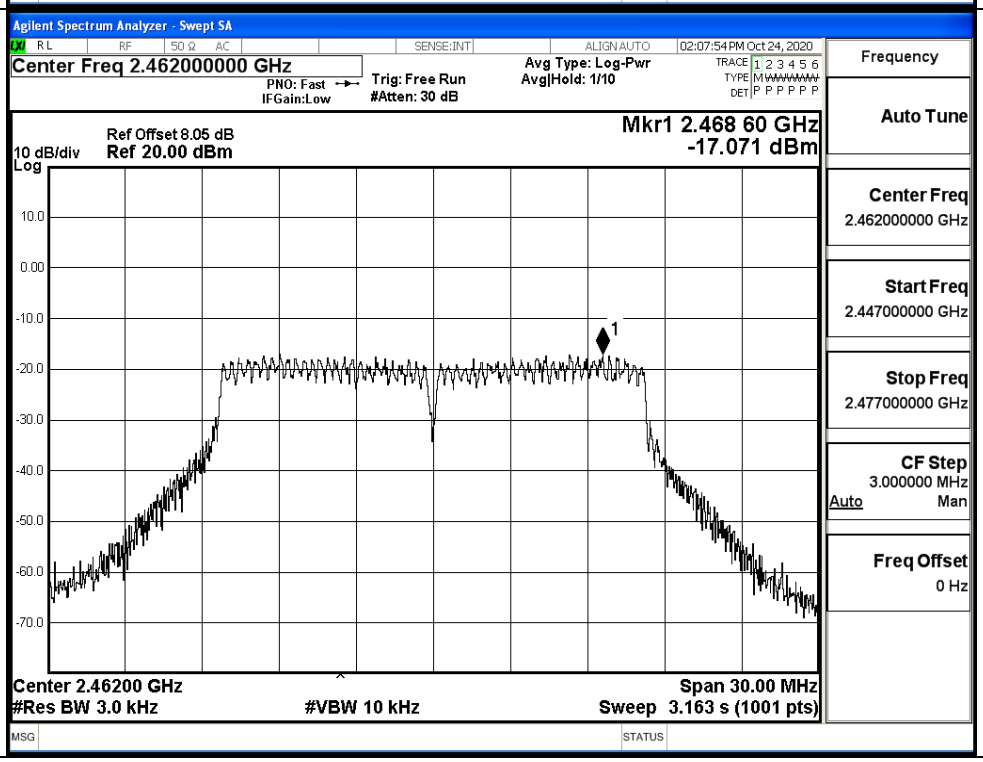
Mode	Channel	Peak Power [dBm]			Limit [dBm]	Verdict
		Ant 0	Ant 1	Sum		
11B	LCH	16.81	16.63	/	30	PASS
	MCH	17.59	17.47	/	30	PASS
	HCH	17.86	17.77	/	30	PASS
11G	LCH	16.03	15.94	/	30	PASS
	MCH	16.96	16.91	/	30	PASS
	HCH	17.25	17.22	/	30	PASS
11N20	LCH	15.21	15.18	18.21	30	PASS
	MCH	16.62	16.59	19.62	30	PASS
	HCH	16.90	16.87	19.90	30	PASS
11N40	LCH	15.77	15.79	18.79	30	PASS
	MCH	16.31	16.25	19.29	30	PASS
	HCH	16.55	16.48	19.53	30	PASS

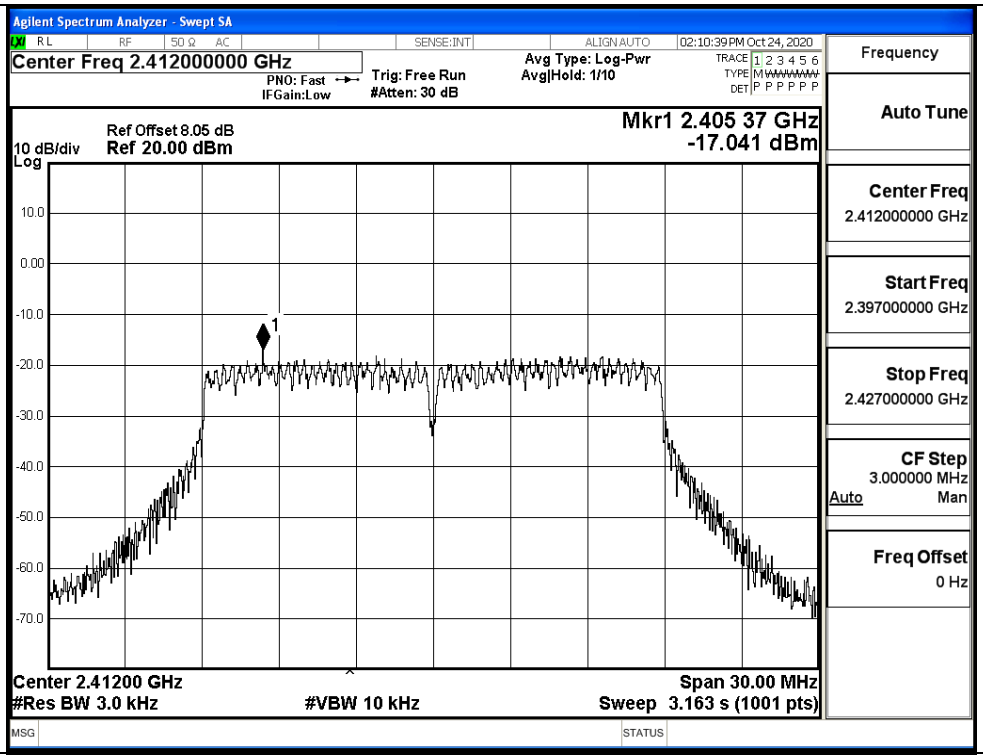
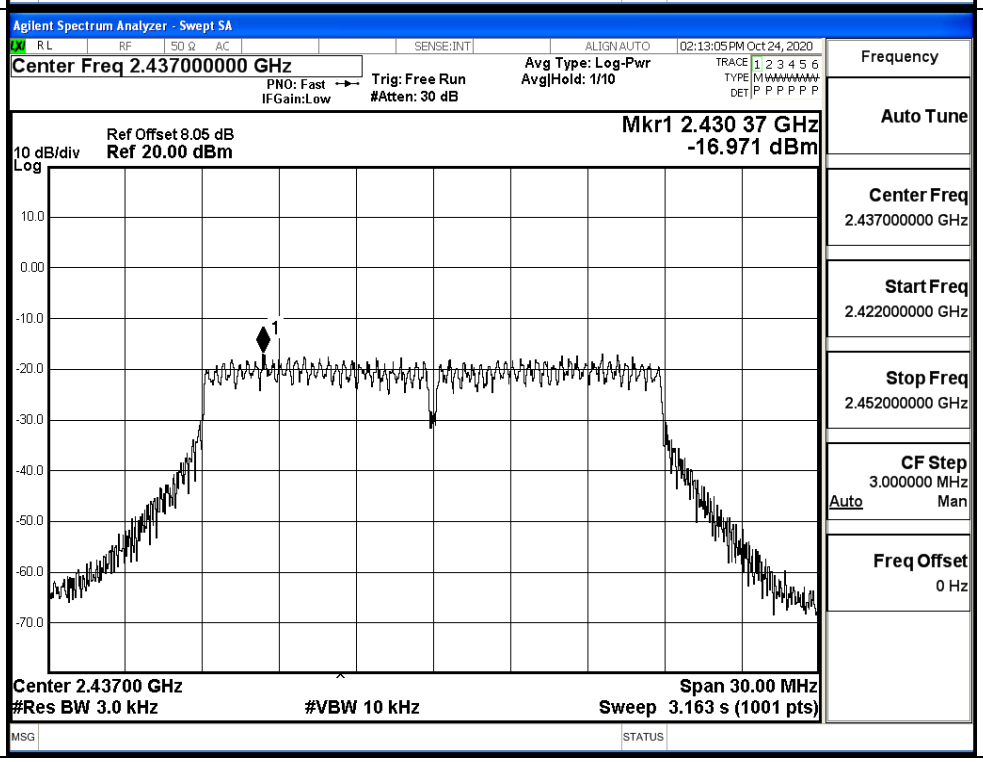
C.3 Maximum Power Spectral Density

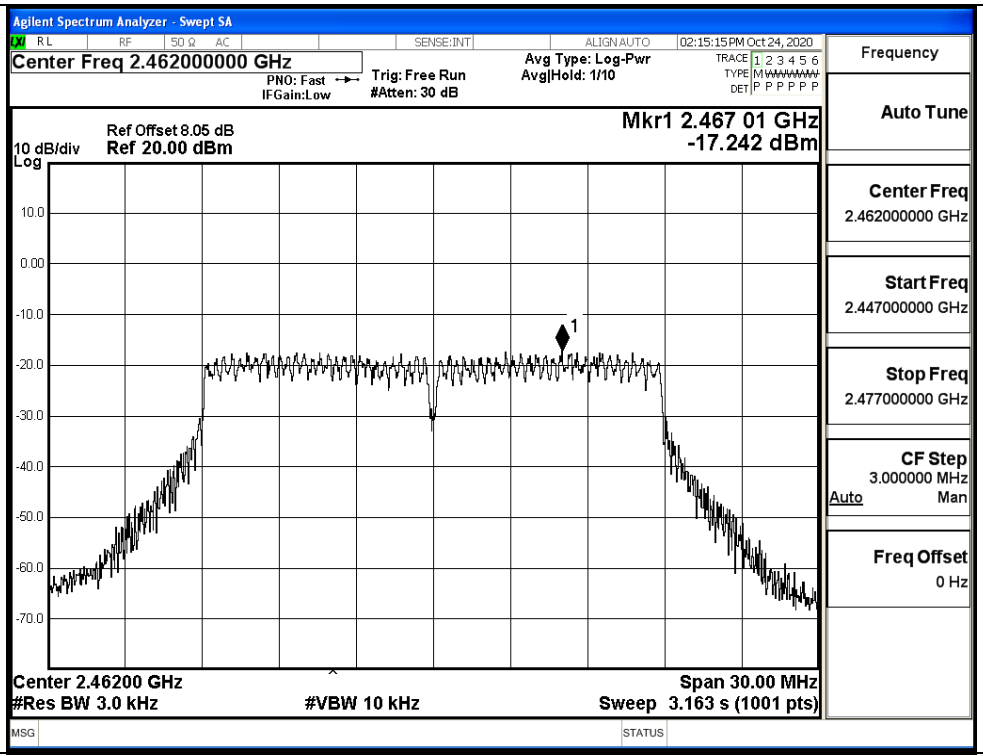
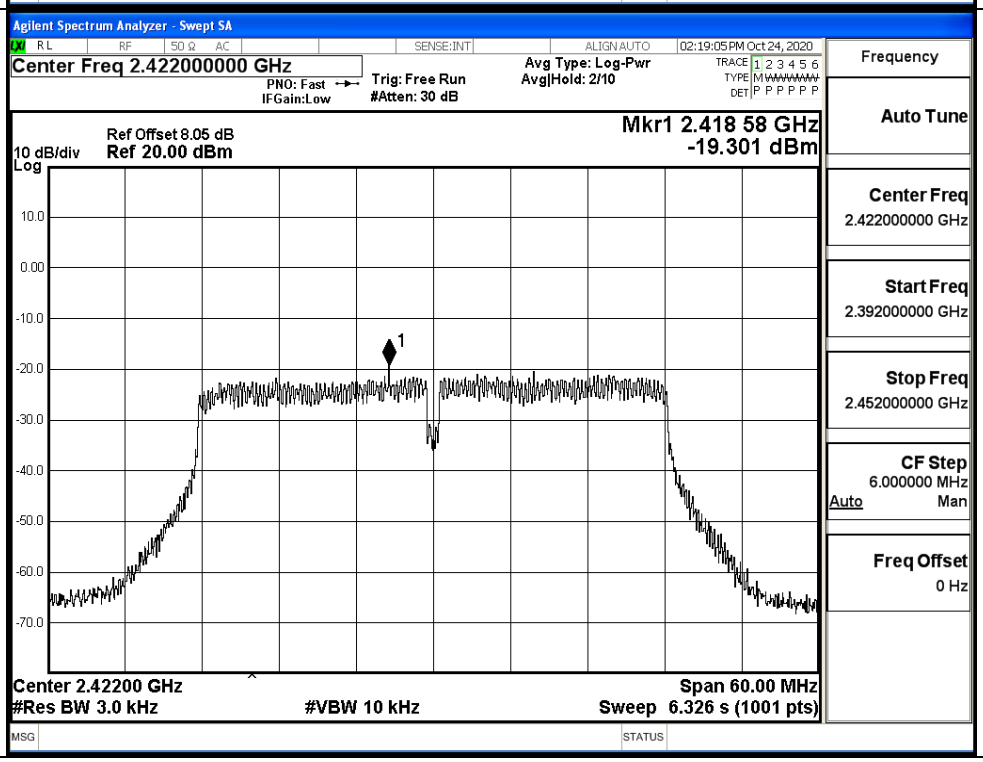
Mode	Channel	Meas.Level [dBm/3KHz]			Limit [dBm/3KHz]	Verdict
		Ant 0	Ant 1	Sum		
11B	LCH	-14.014	-14.176	/	8	PASS
	MCH	-13.299	-13.498	/	8	PASS
	HCH	-13.008	-13.092	/	8	PASS
11G	LCH	-18.307	-18.229	/	8	PASS
	MCH	-16.983	-16.847	/	8	PASS
	HCH	-17.071	-16.848	/	8	PASS
11N20	LCH	-17.041	-17.969	-14.47	8	PASS
	MCH	-16.971	-15.853	-13.37	8	PASS
	HCH	-17.242	-16.342	-13.76	8	PASS
11N40	LCH	-19.301	-18.947	-16.11	8	PASS
	MCH	-18.637	-17.795	-15.19	8	PASS
	HCH	-17.248	-18.732	-14.92	8	PASS

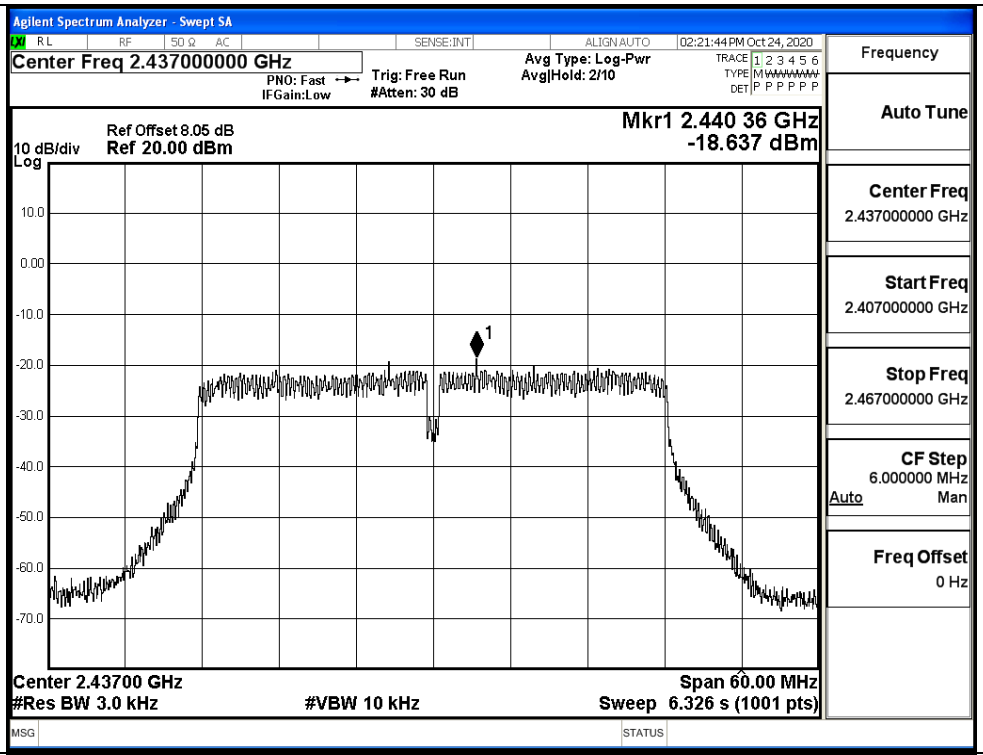
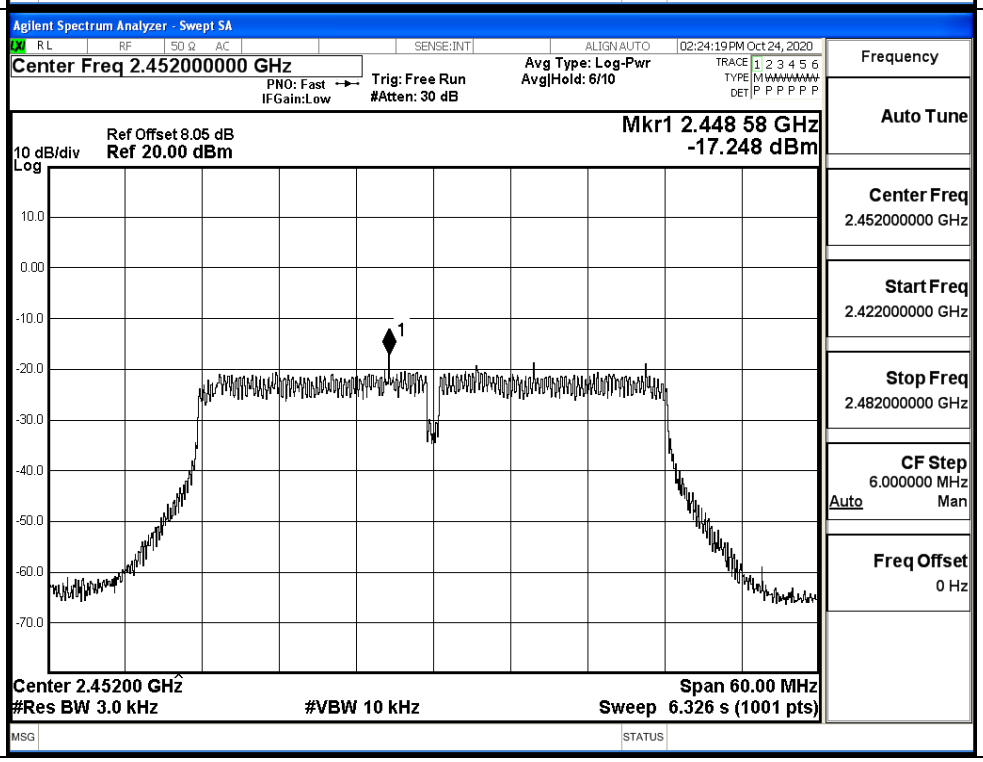
Test Graphs_ ANT0		
11B/LCH		
11B/MCH		

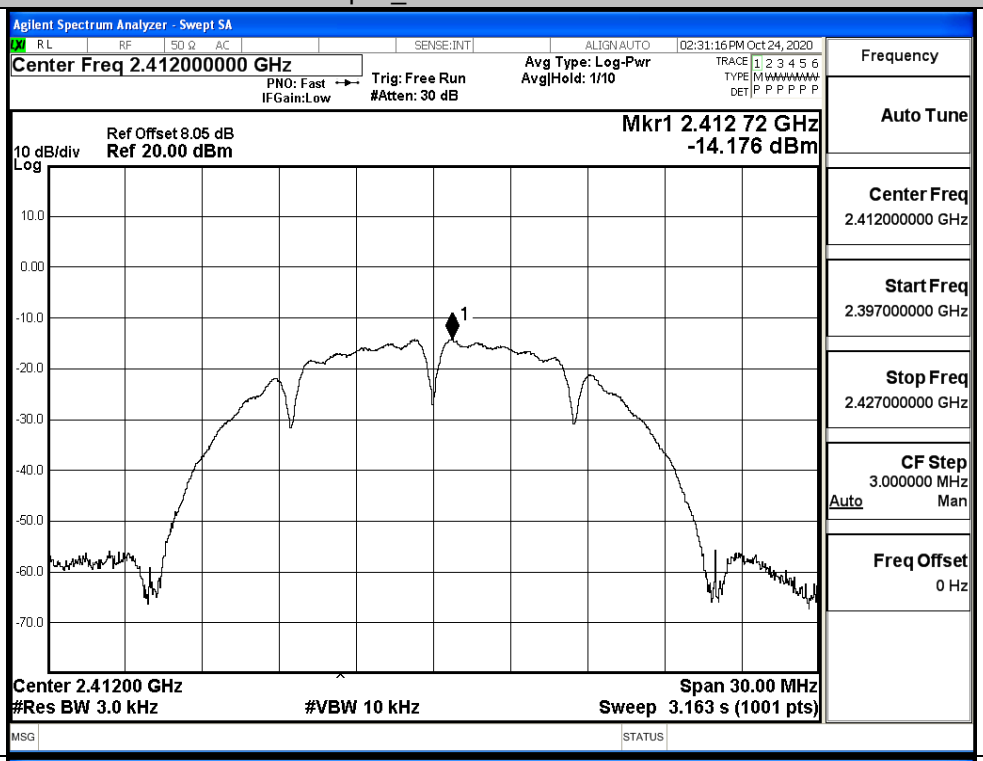
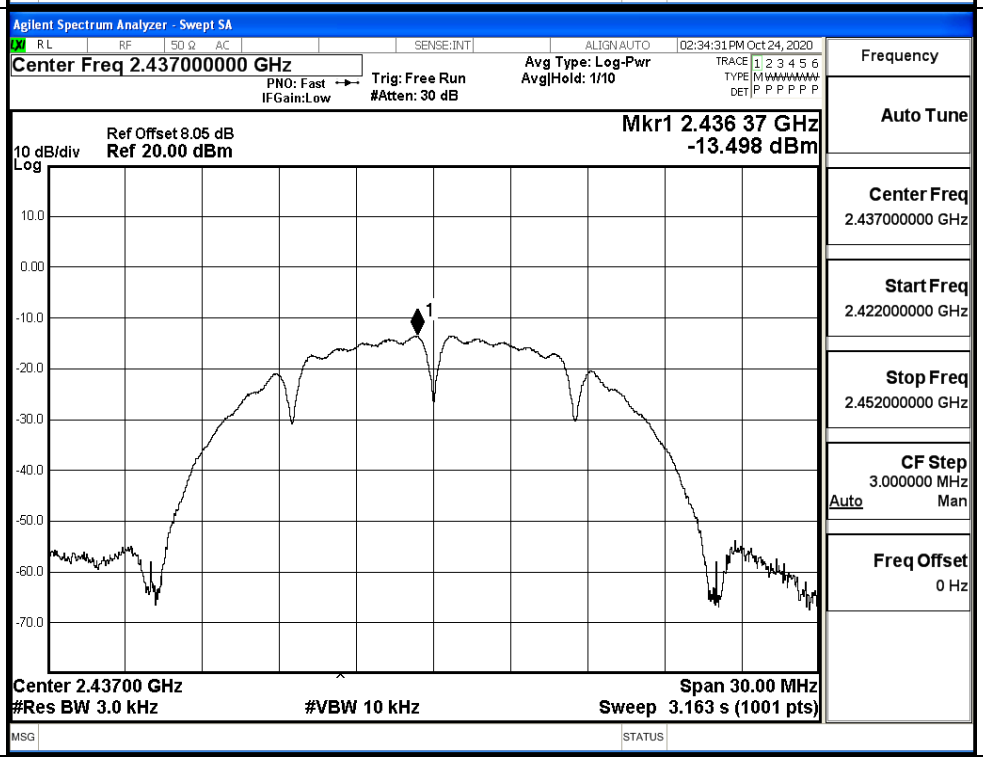
11B/HCH		
11G/LCH		

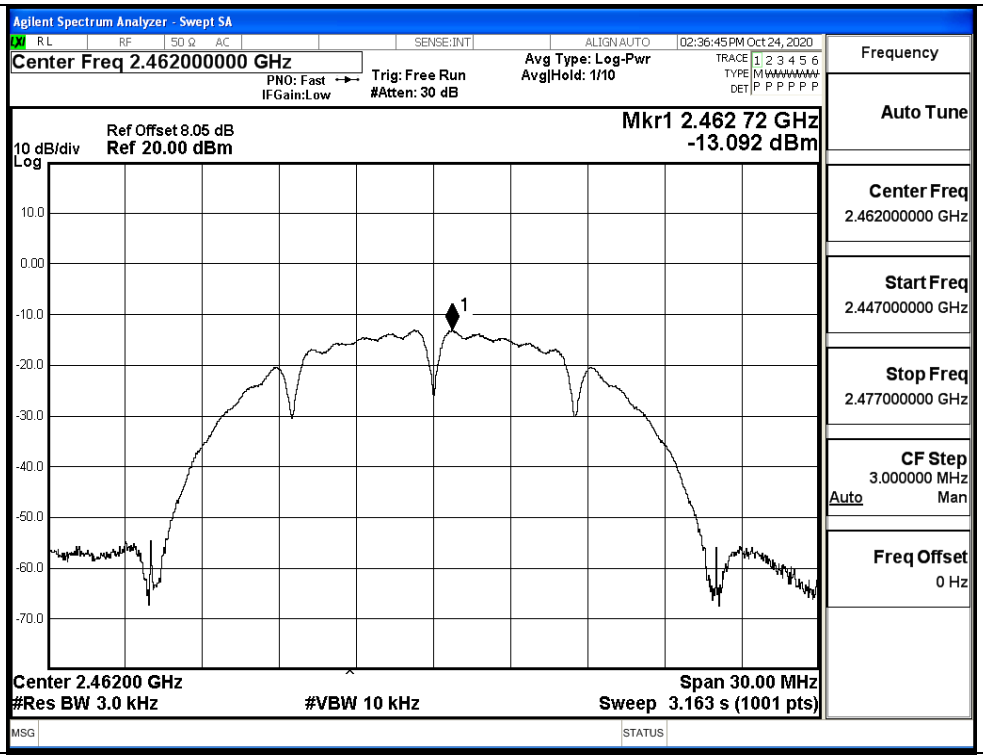
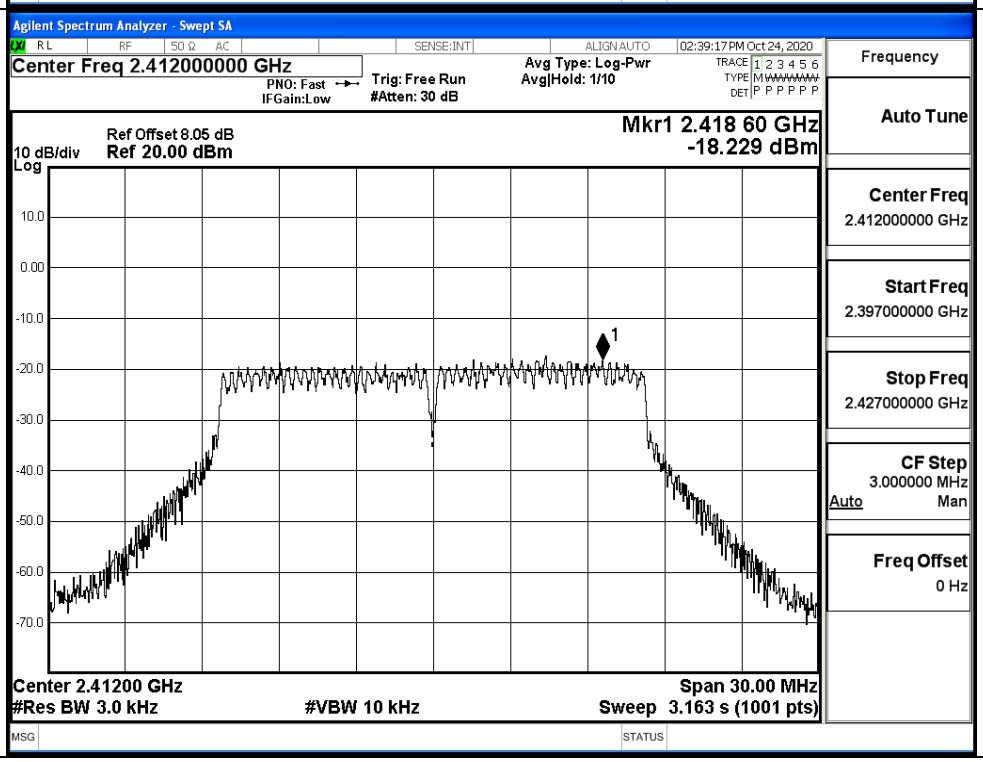
11G/MCH		
11G/HCH		

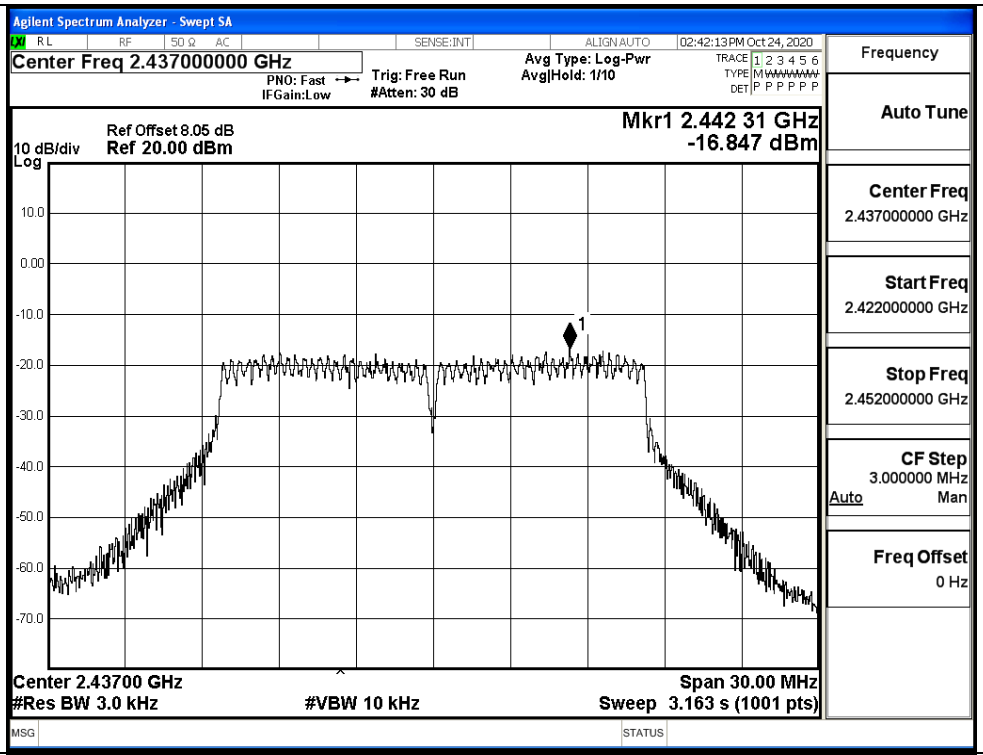
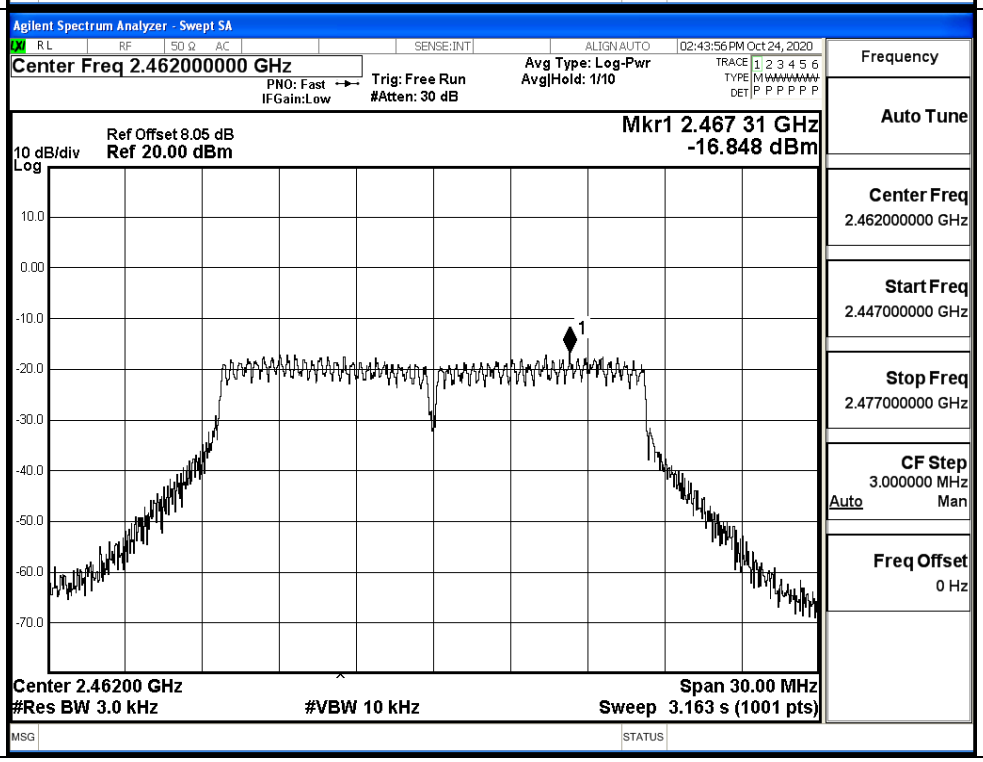
11N20SISO/LCH		
11N20SISO/MCH		

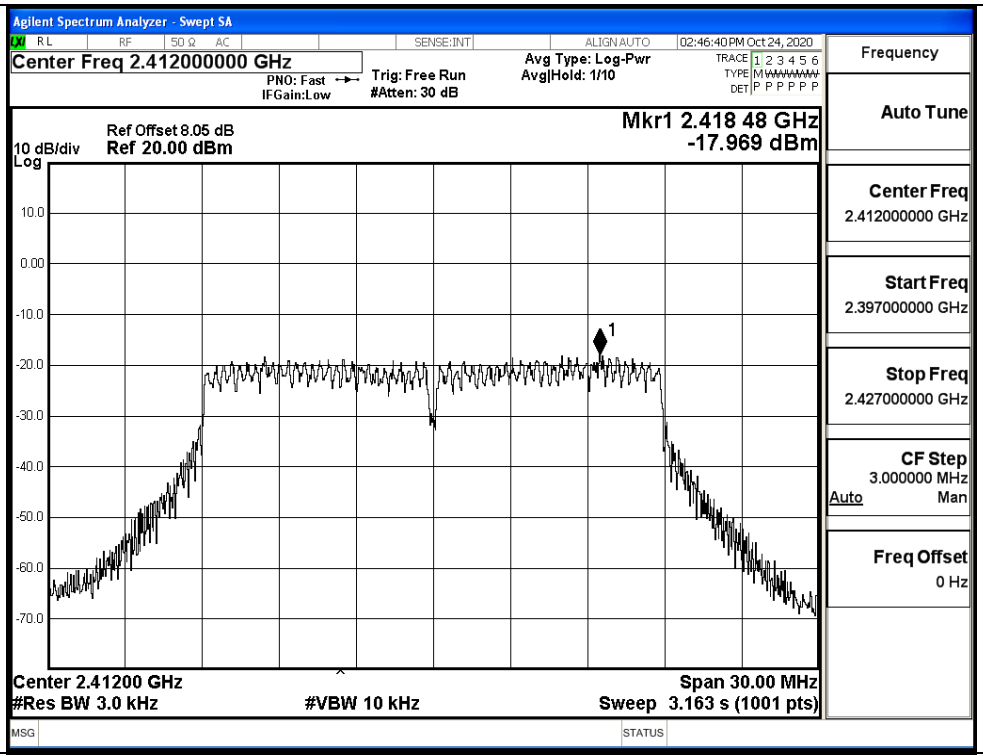
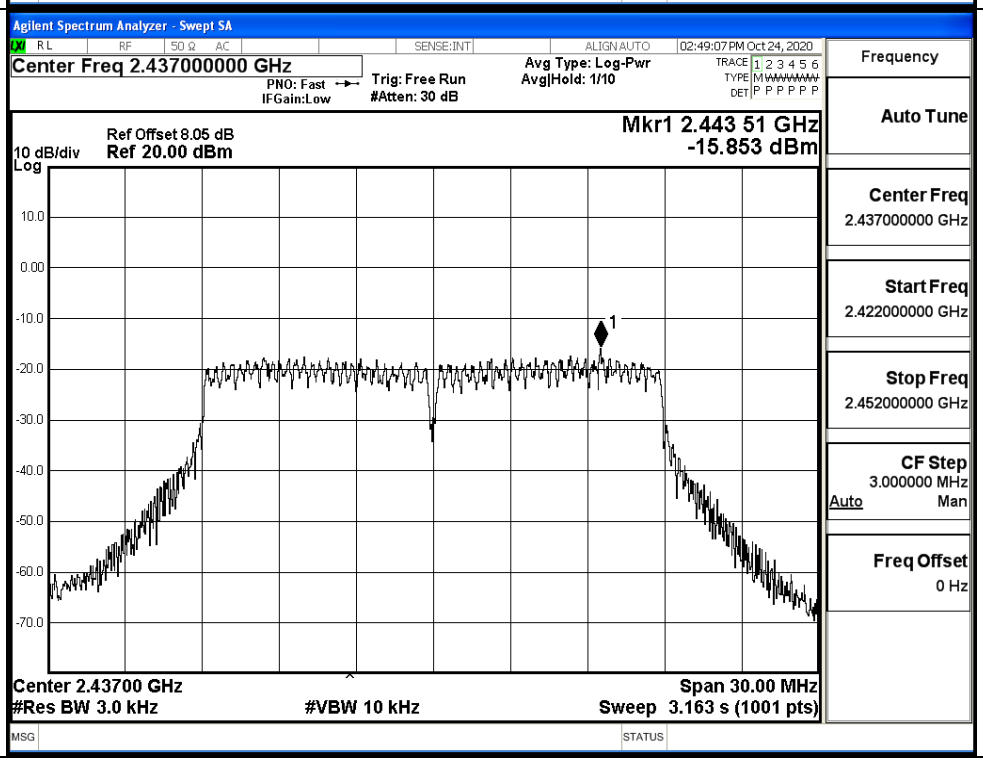
11N20SISO/HCH		
11N40SISO/LCH		

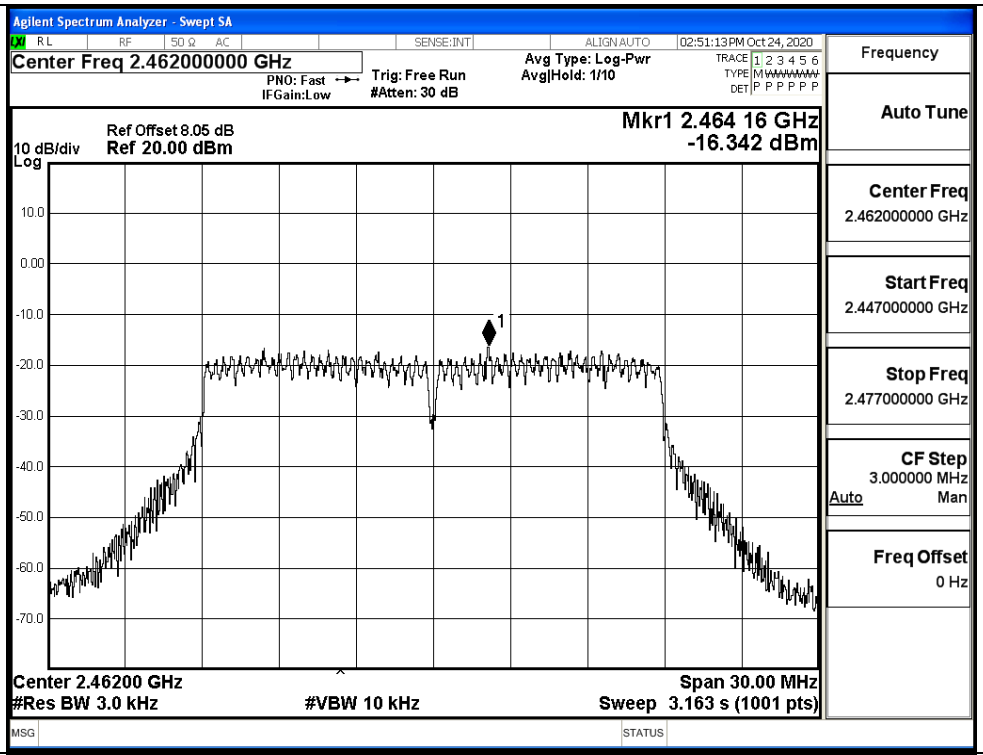
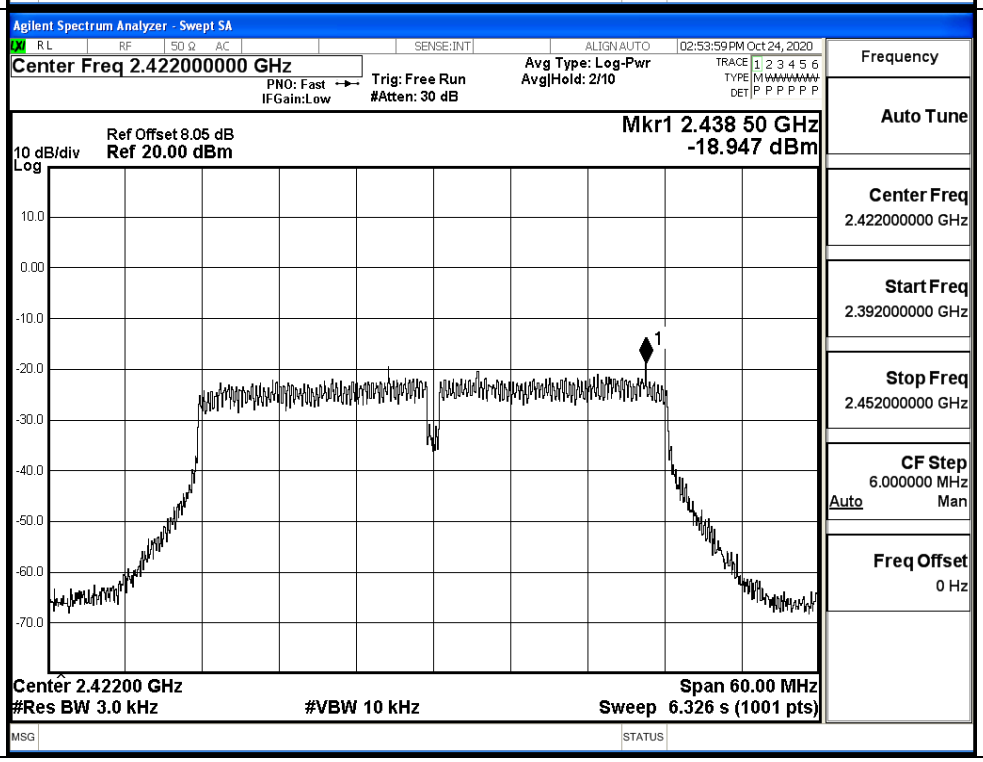
11N40SISO/MCH		
11N40SISO/HCH		

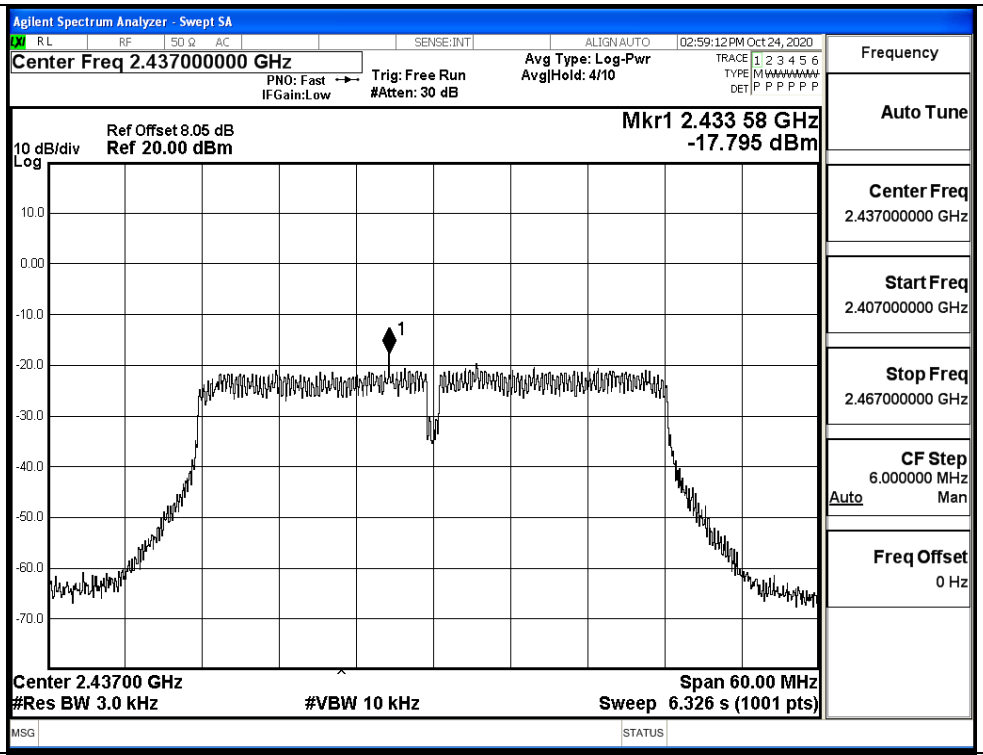
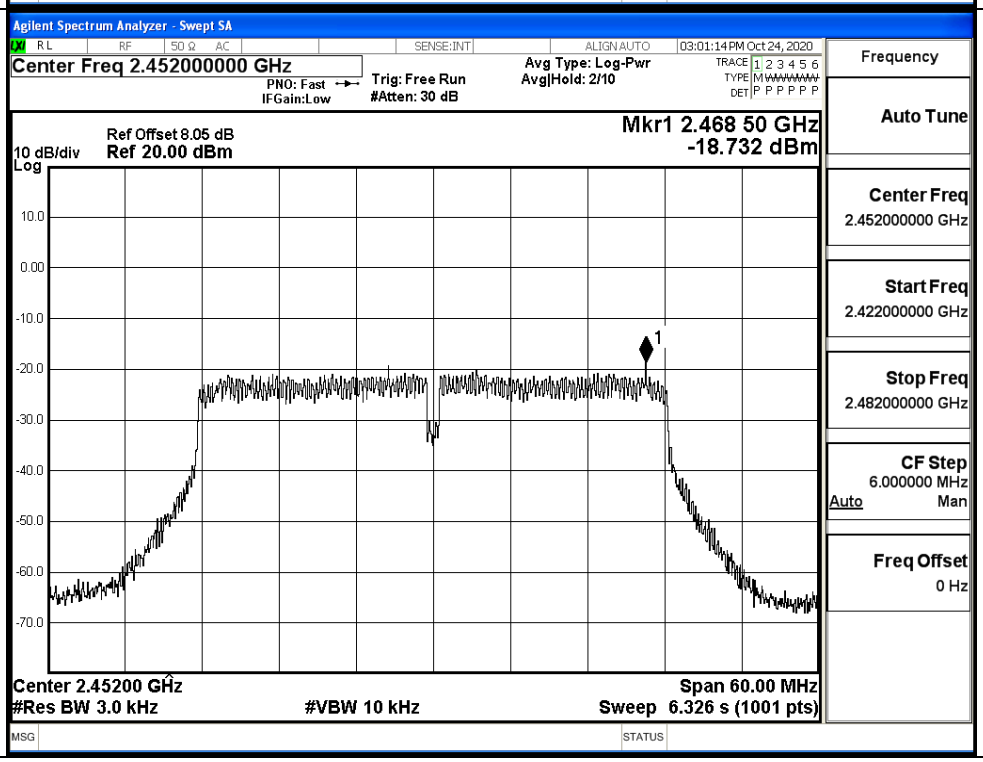
Test Graphs_ANT1	
11B/LCH	
11B/MCH	

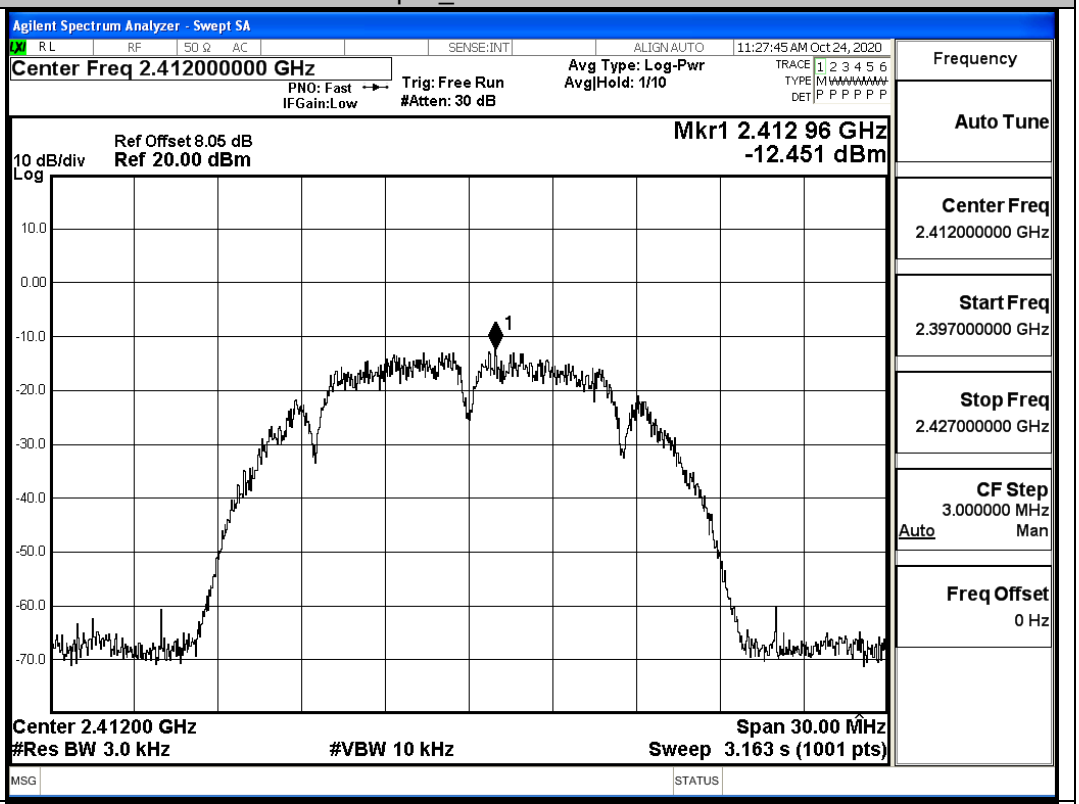
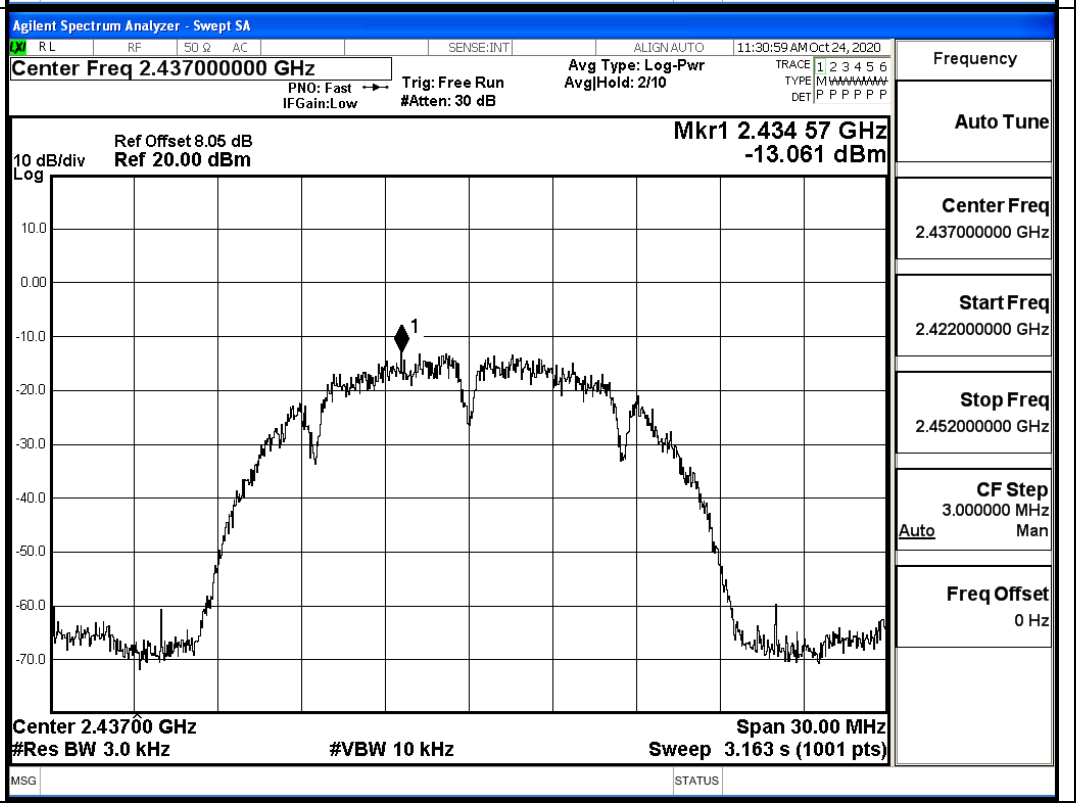
11B/HCH		
11G/LCH		

11G/MCH		
11G/HCH		

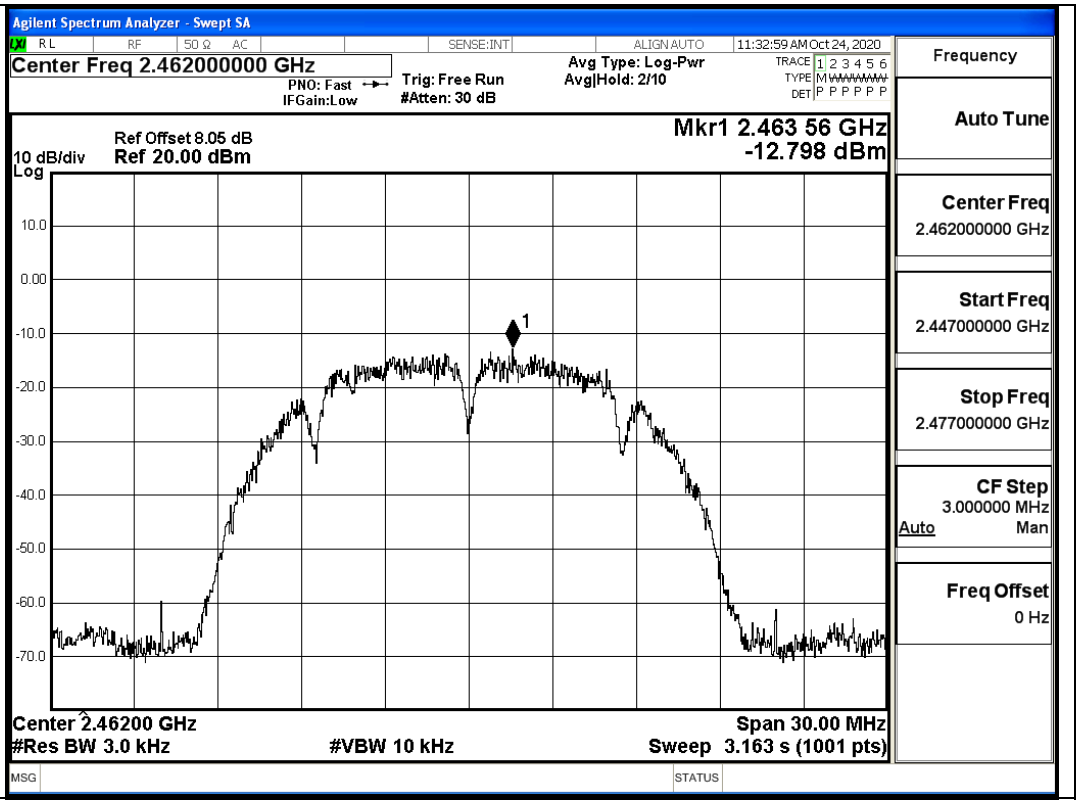
11N20SISO/LCH		
11N20SISO/MCH		

11N20SISO/HCH		
11N40SISO/LCH		

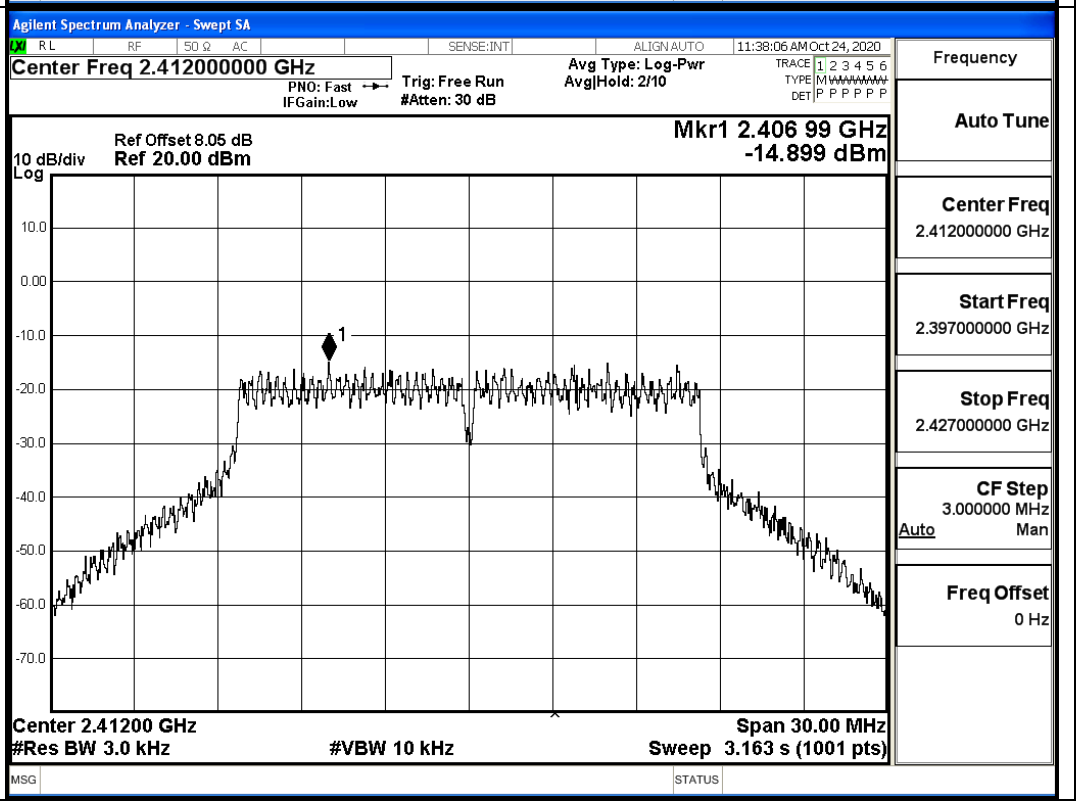
11N40SISO/MCH		
11N40SISO/HCH		

Test Graphs_Ant1	
11B/LCH	
11B/MCH	

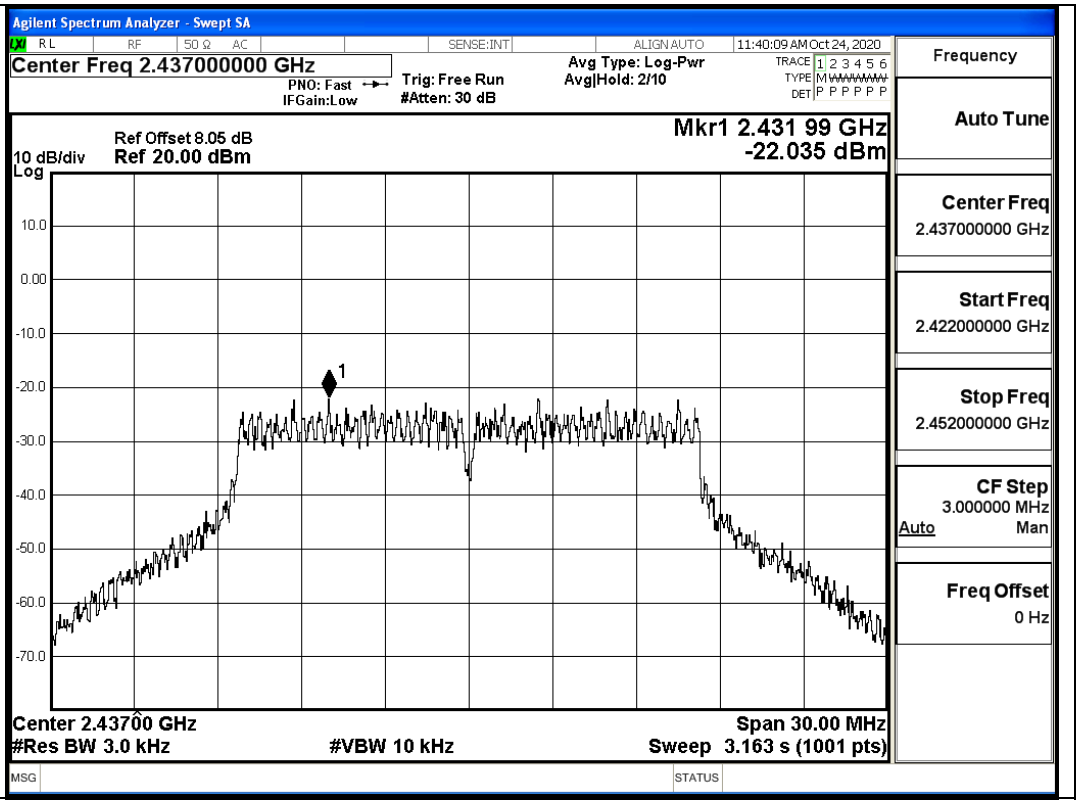
11B/HCH



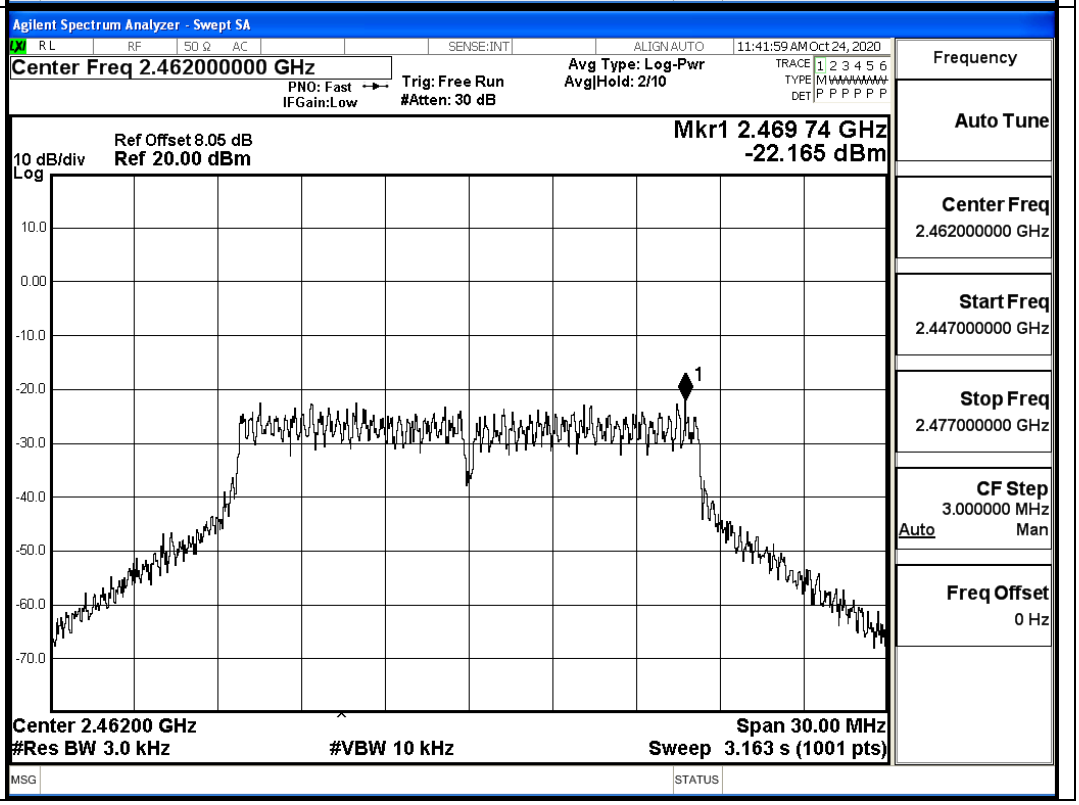
11G/LCH



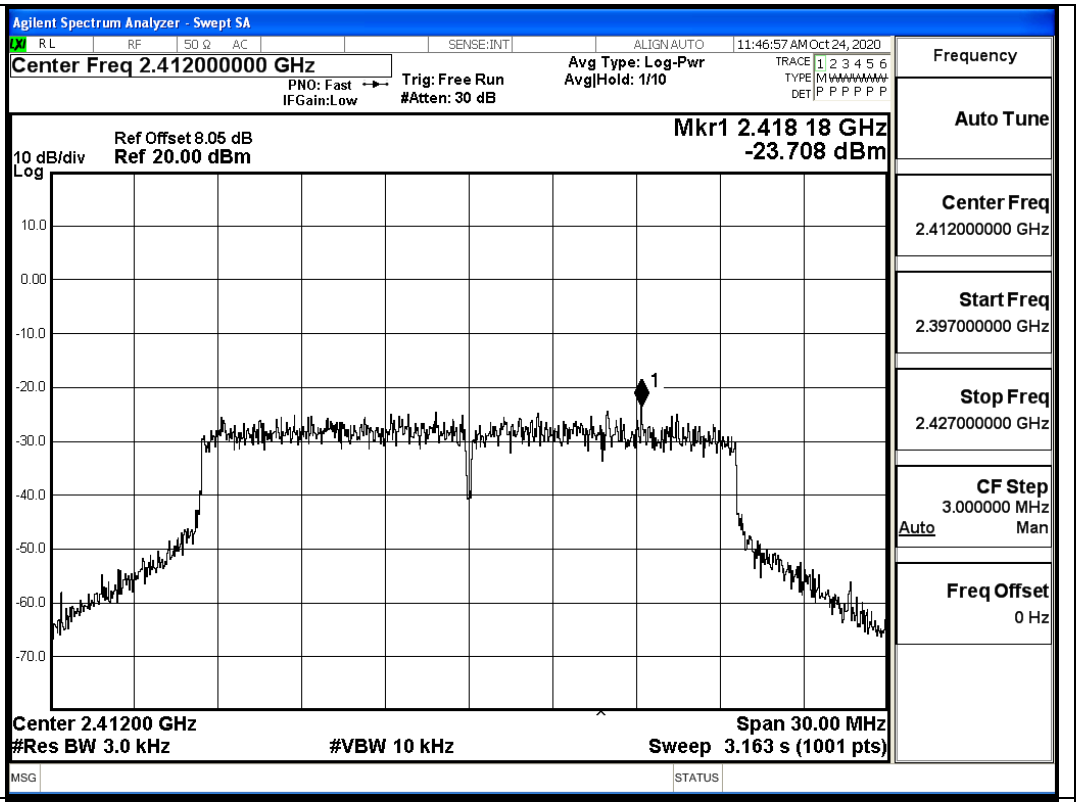
11G/MCH



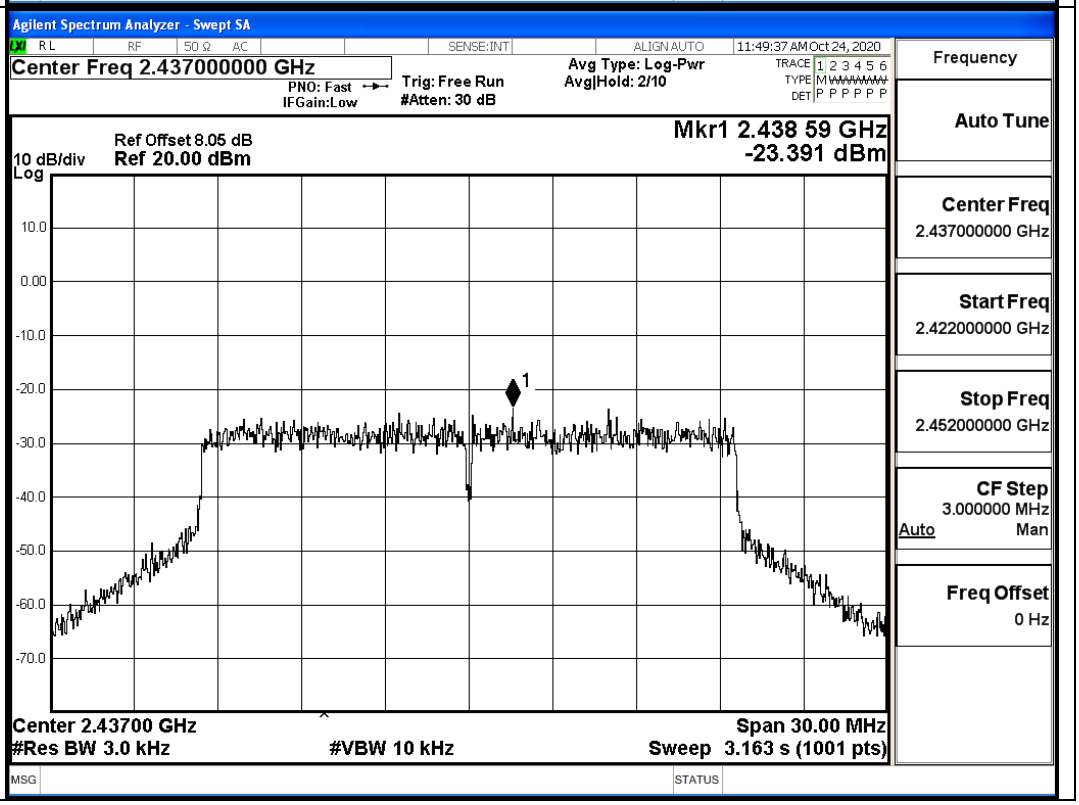
11G/HCH



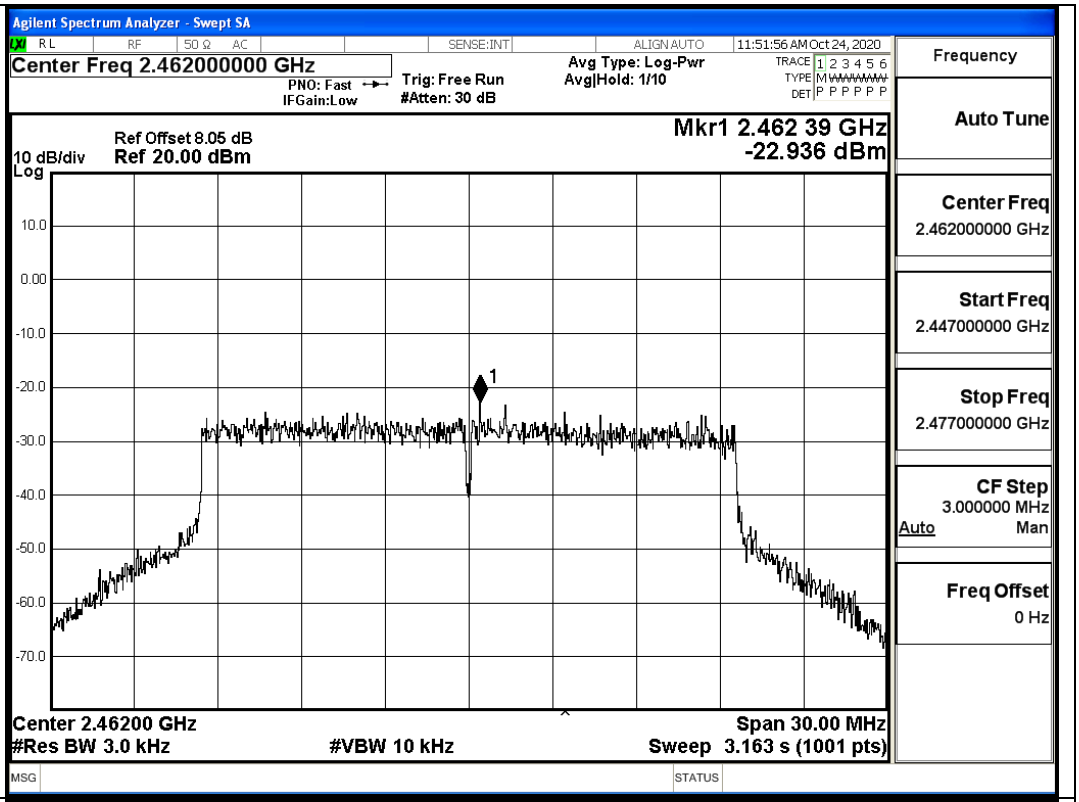
11N20 /LCH



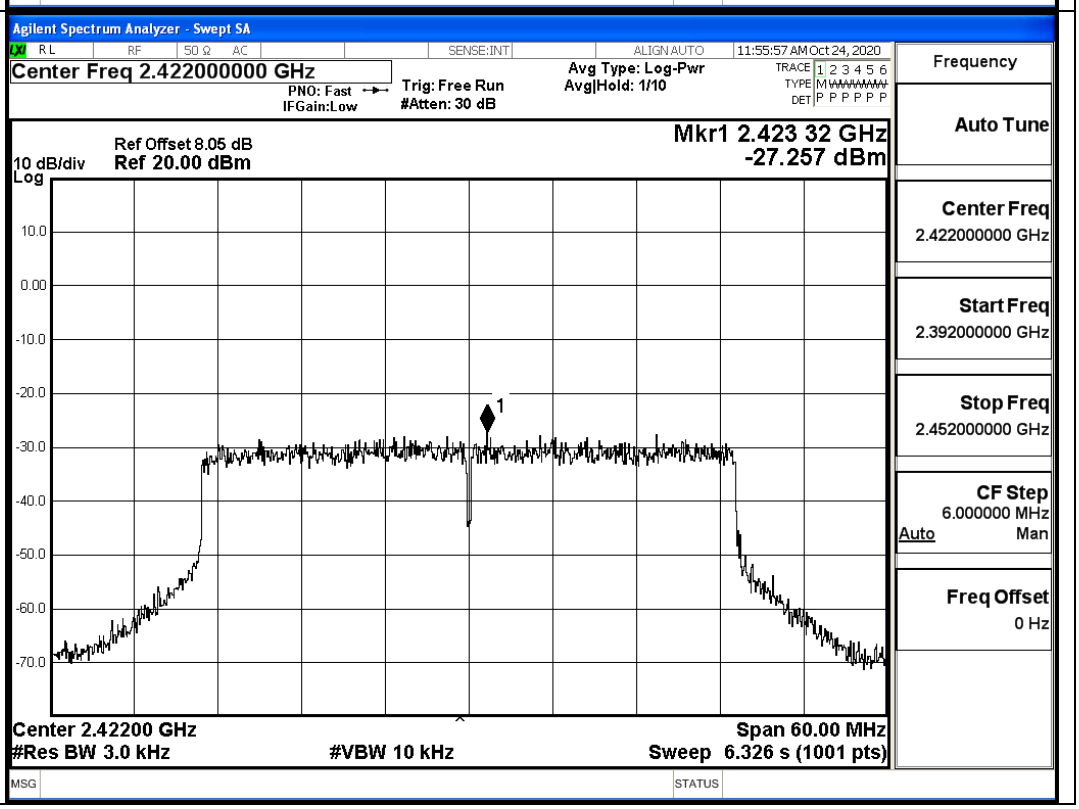
11N20 /MCH



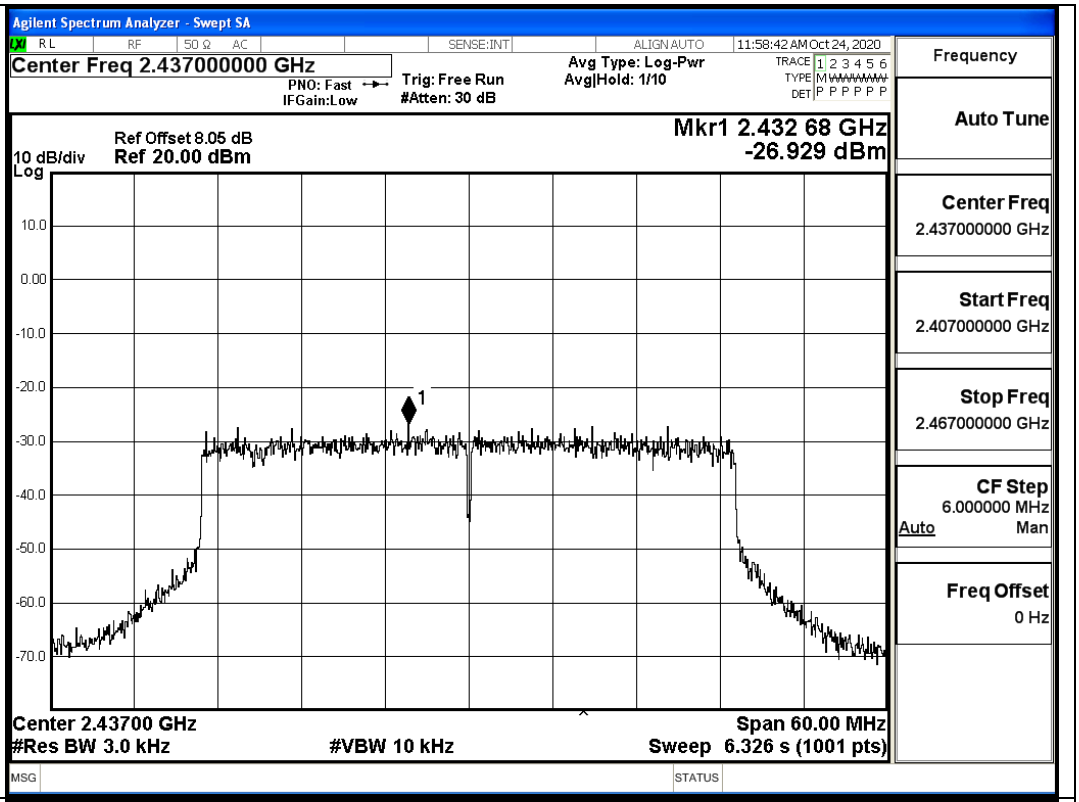
11N20 /HCH



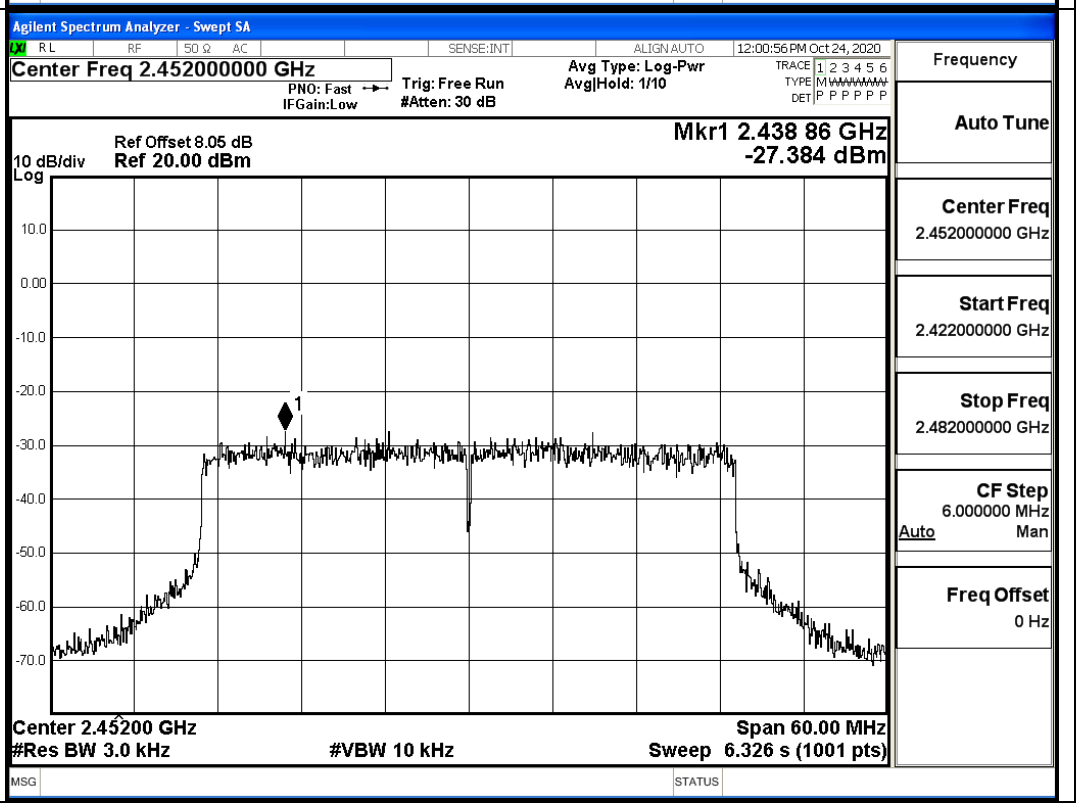
11N40 /LCH



11N40 /MCH



11N40 /HCH



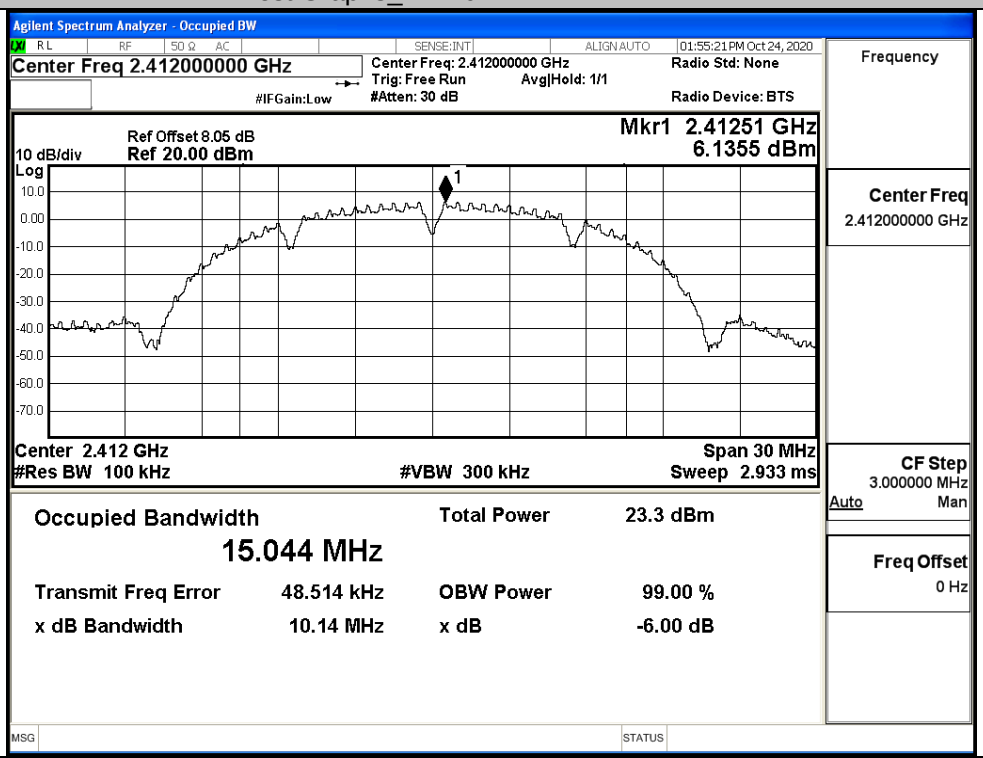
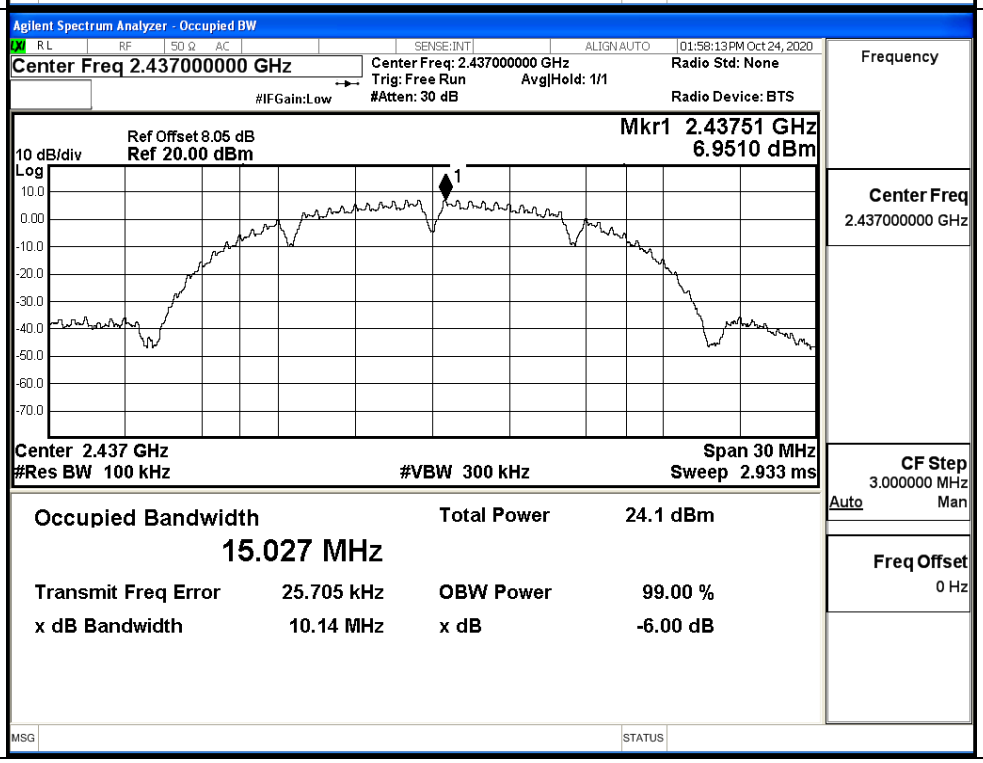
C.4 6dB Bandwidth

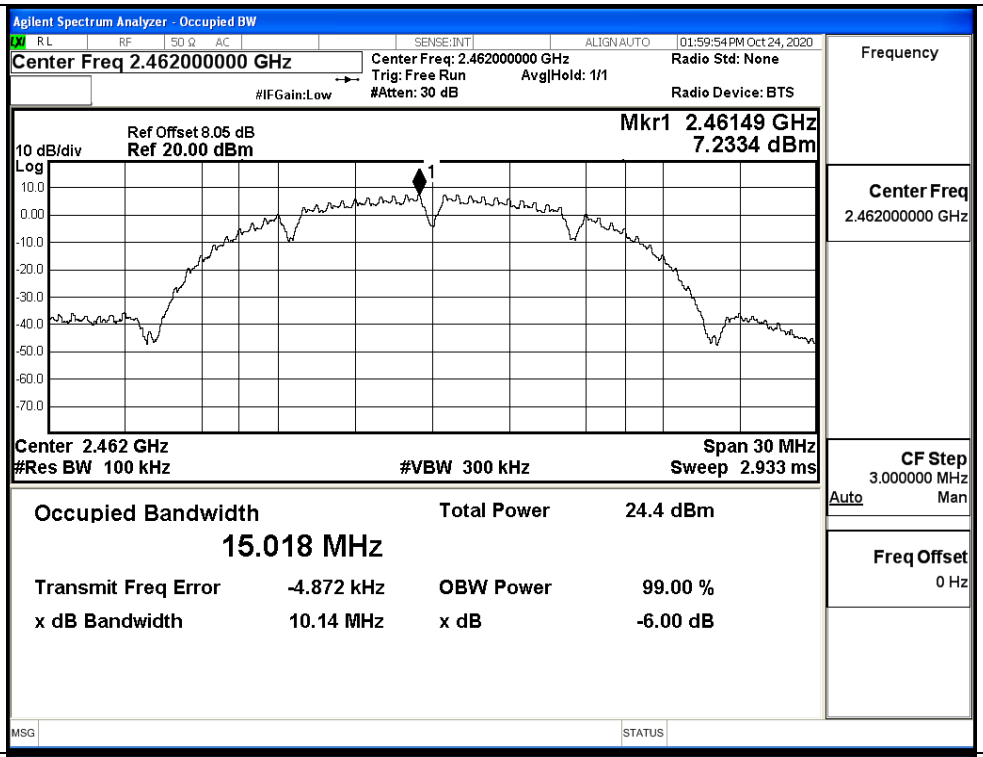
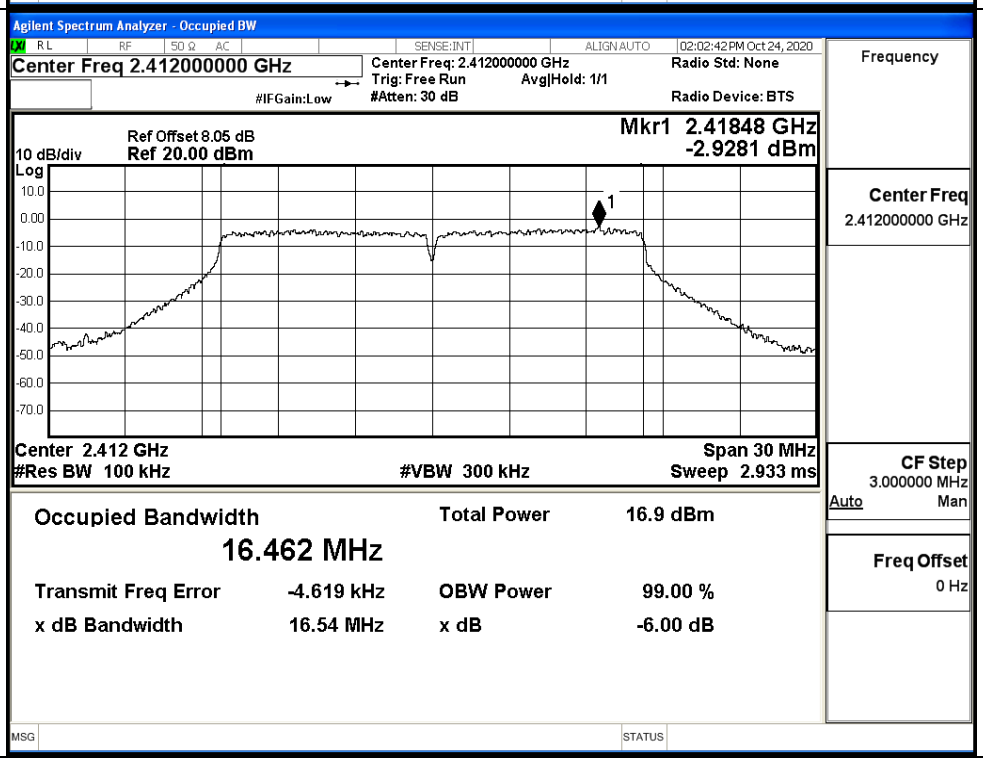
Ant0

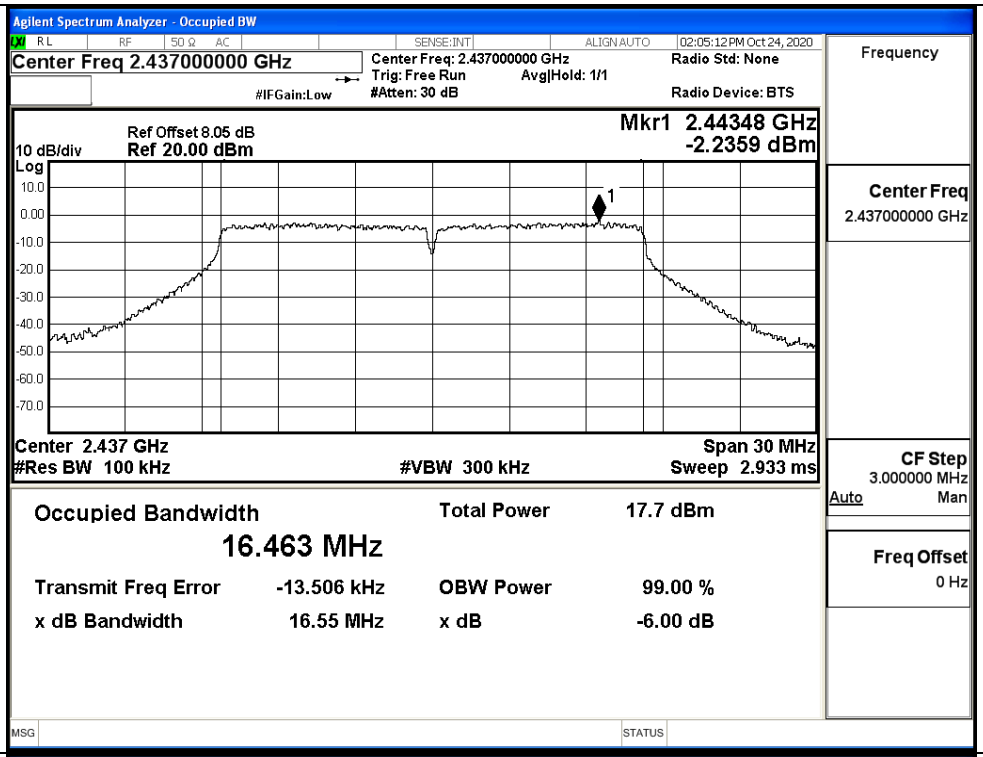
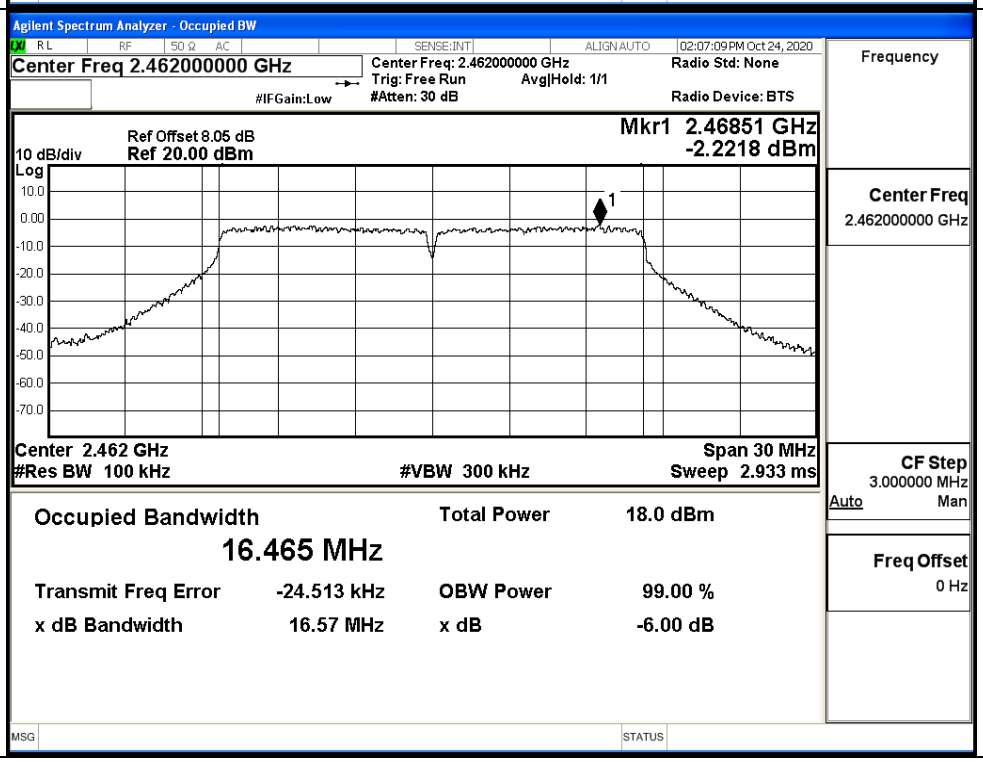
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	10.14	≥0.5	PASS
	MCH	10.14	≥0.5	PASS
	HCH	10.14	≥0.5	PASS
11G	LCH	16.54	≥0.5	PASS
	MCH	16.55	≥0.5	PASS
	HCH	16.57	≥0.5	PASS
11N20SISO	LCH	17.75	≥0.5	PASS
	MCH	17.71	≥0.5	PASS
	HCH	17.72	≥0.5	PASS
11N40SISO	LCH	36.50	≥0.5	PASS
	MCH	36.50	≥0.5	PASS
	HCH	36.48	≥0.5	PASS

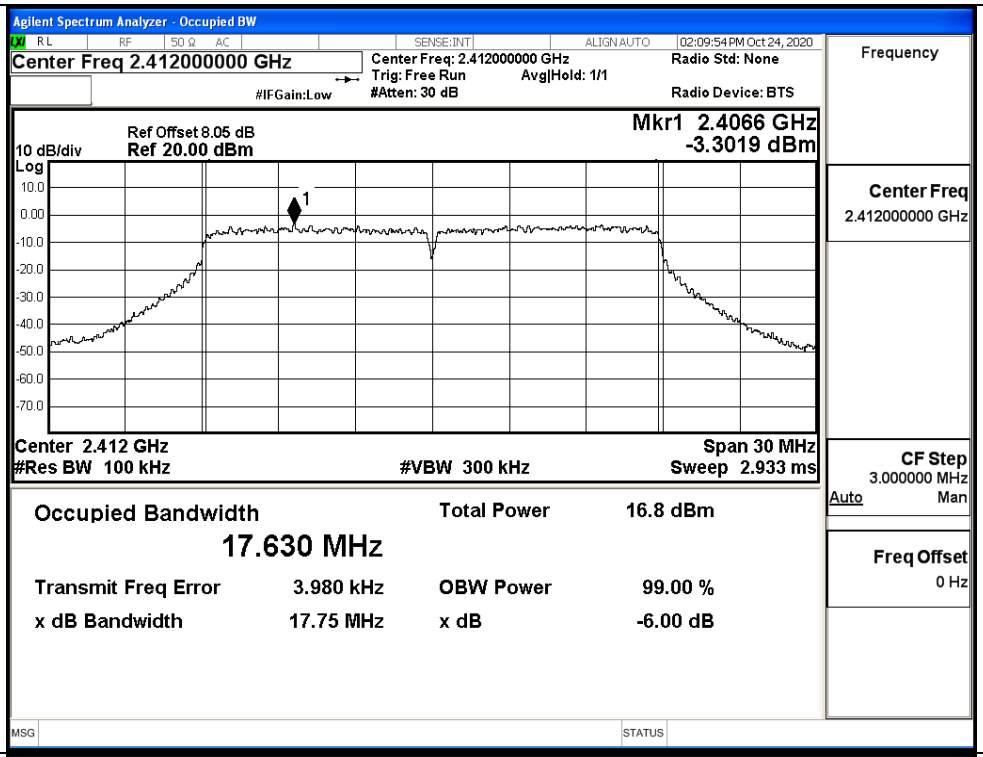
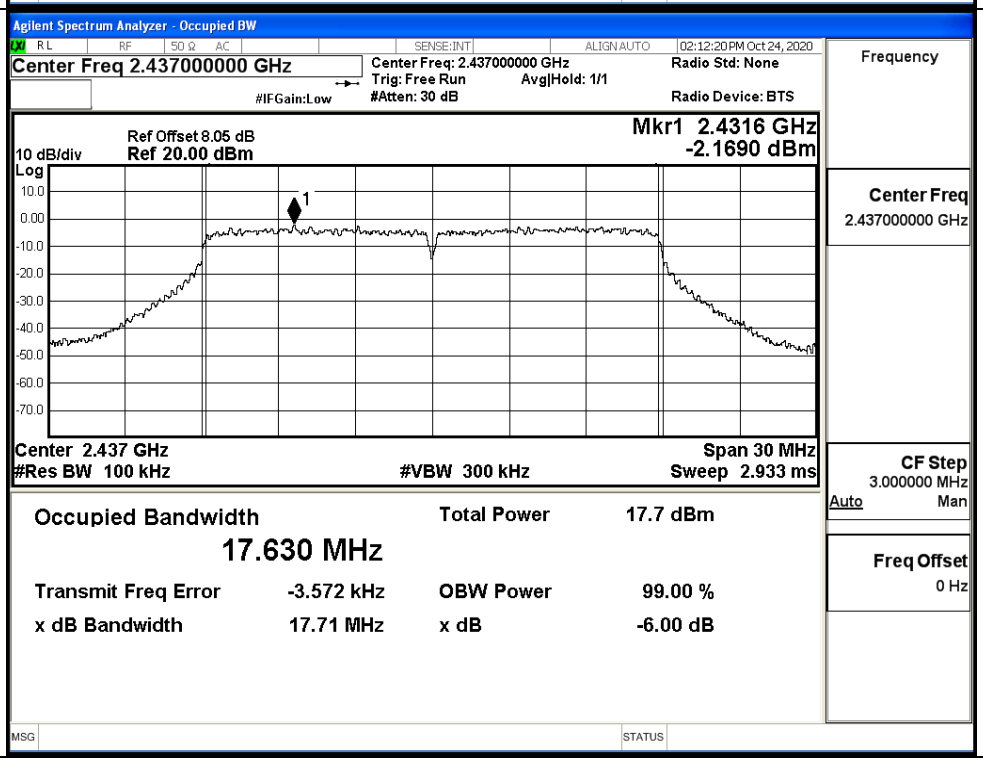
Ant1

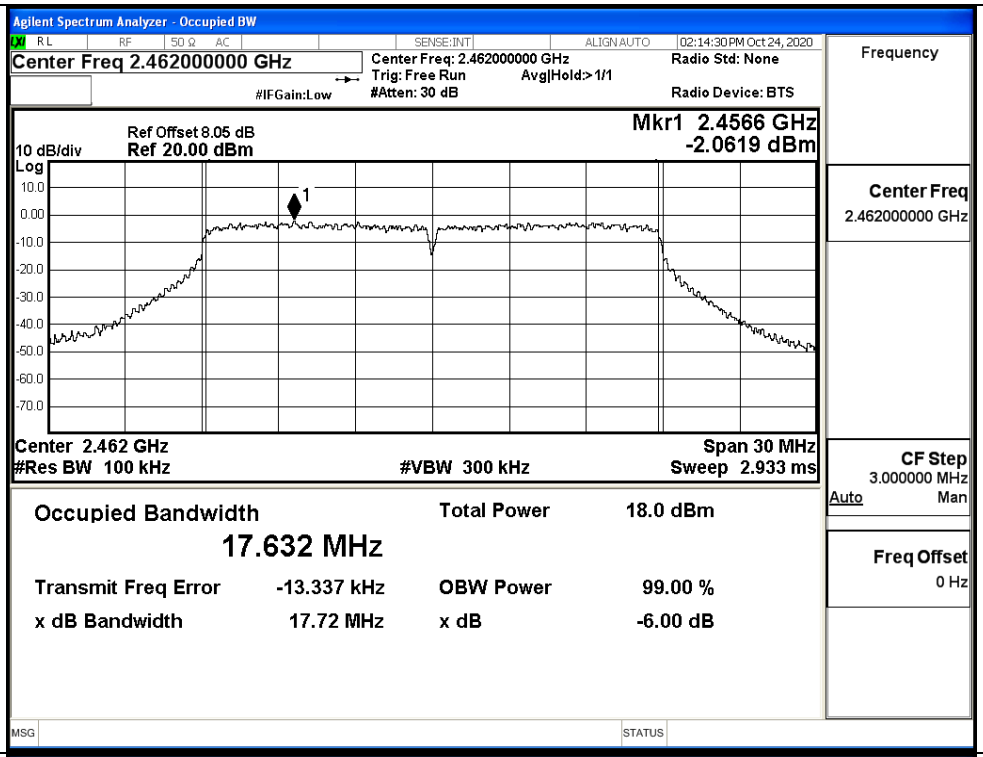
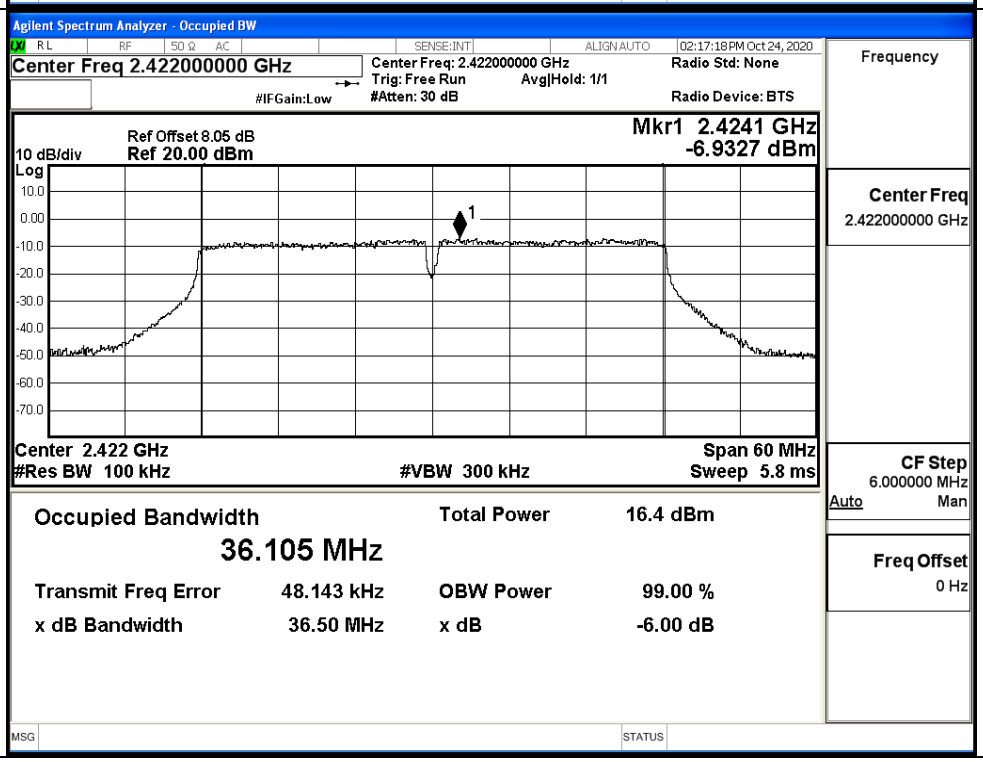
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	10.14	≥0.5	PASS
	MCH	10.14	≥0.5	PASS
	HCH	10.14	≥0.5	PASS
11G	LCH	16.54	≥0.5	PASS
	MCH	16.56	≥0.5	PASS
	HCH	16.57	≥0.5	PASS
11N20SISO	LCH	17.75	≥0.5	PASS
	MCH	17.75	≥0.5	PASS
	HCH	17.72	≥0.5	PASS
11N40SISO	LCH	36.47	≥0.5	PASS
	MCH	36.52	≥0.5	PASS
	HCH	36.52	≥0.5	PASS

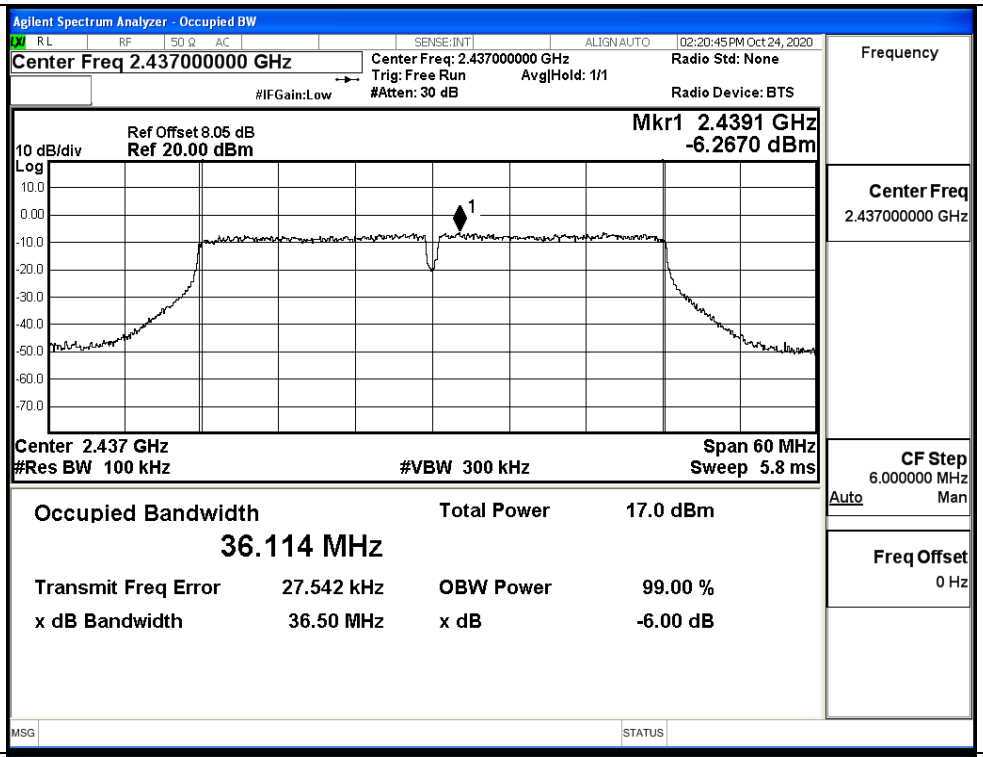
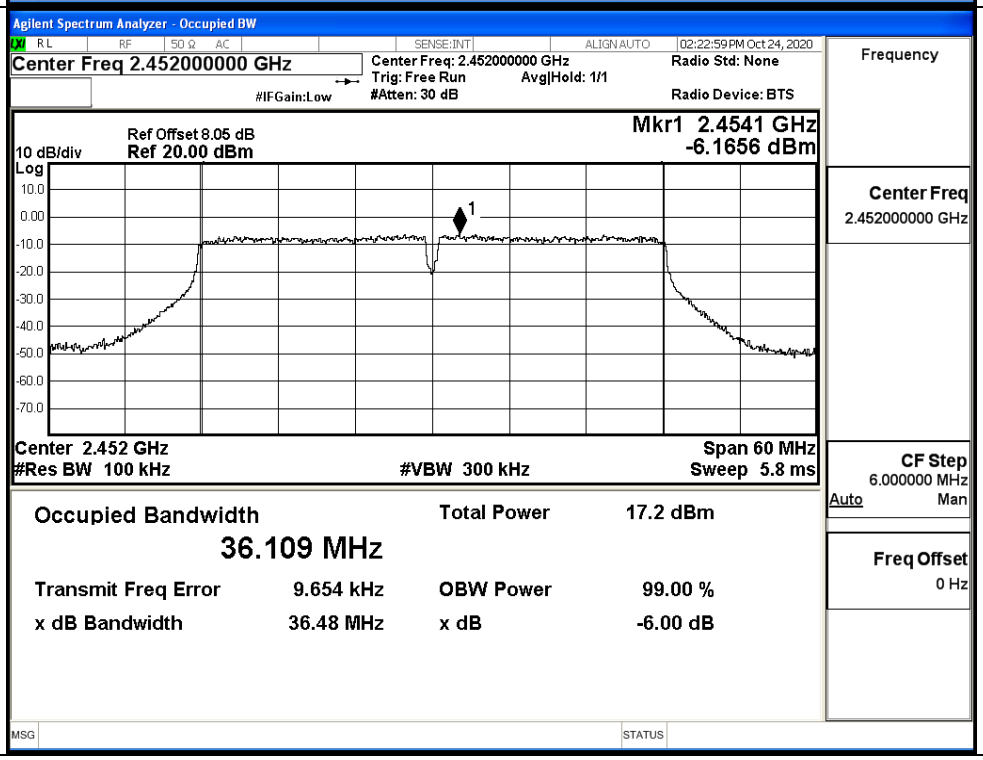
Test Graphs_ ANT0	
11B/LCH	
11B/MCH	

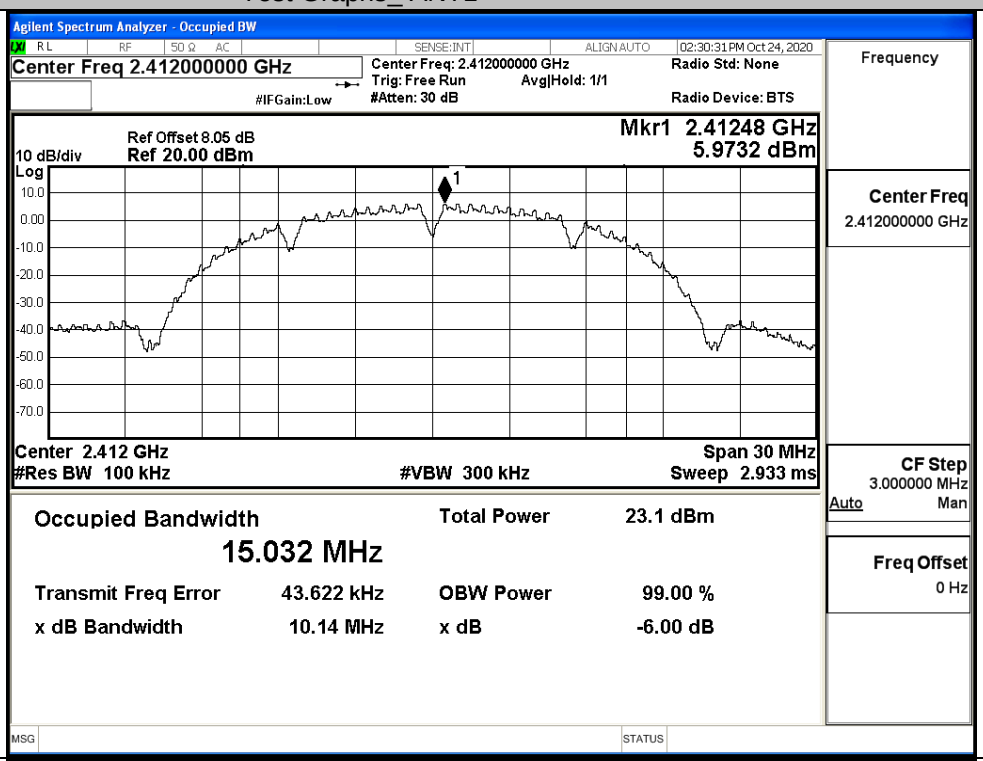
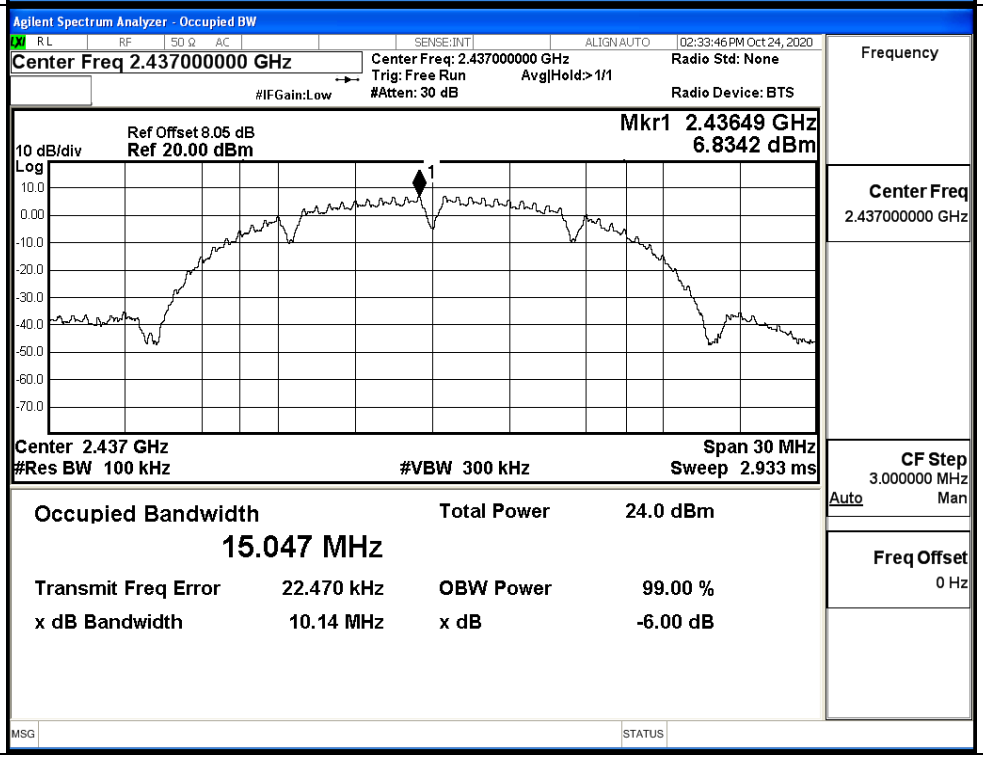
11B/HCH		
11G/LCH		

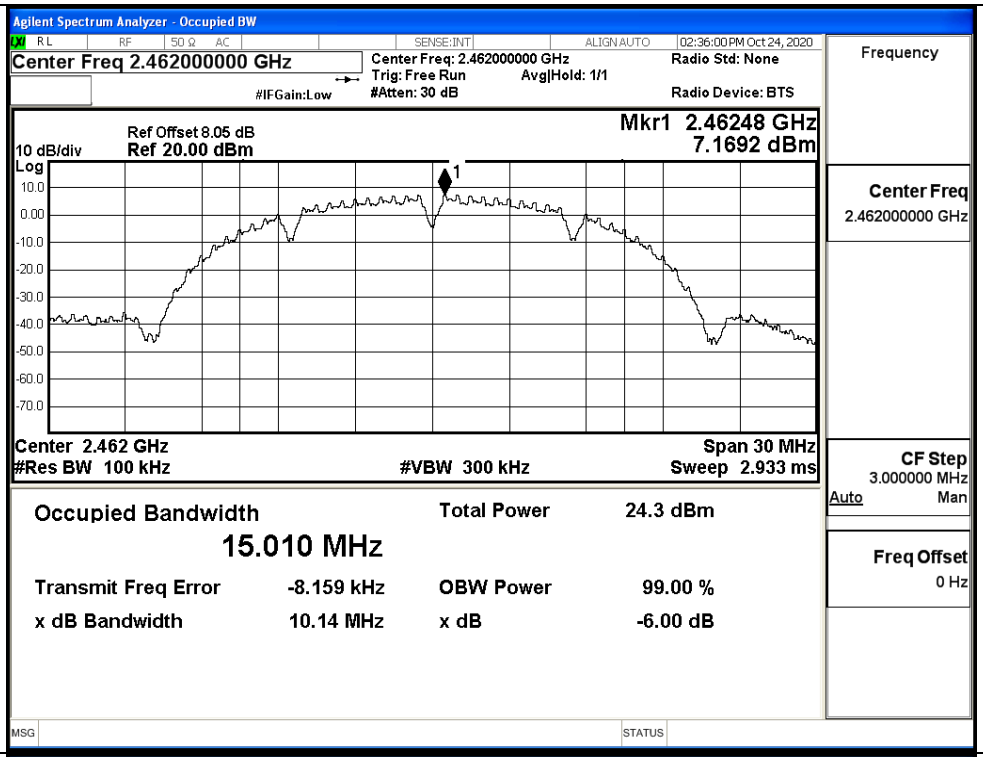
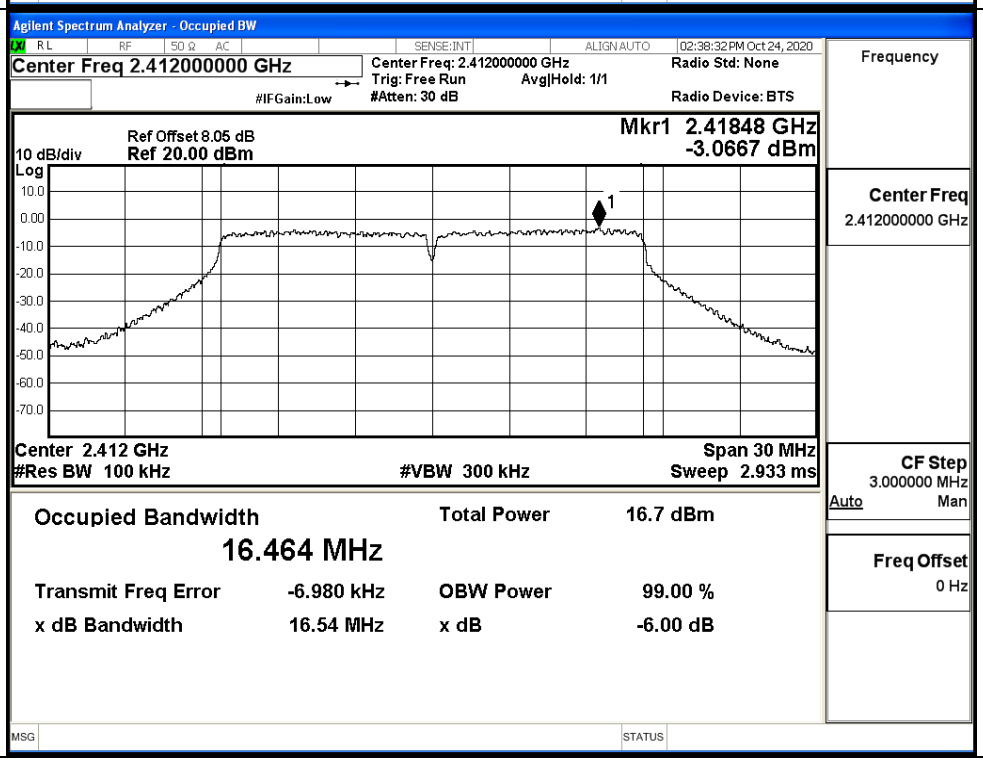
11G/MCH		
11G/HCH		

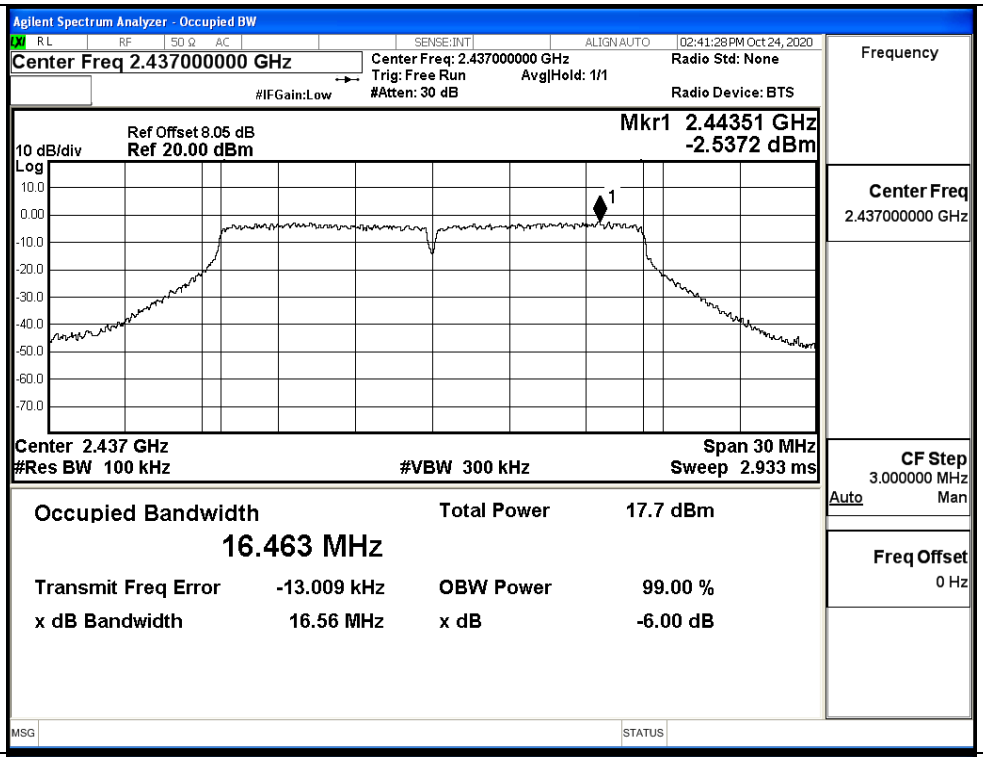
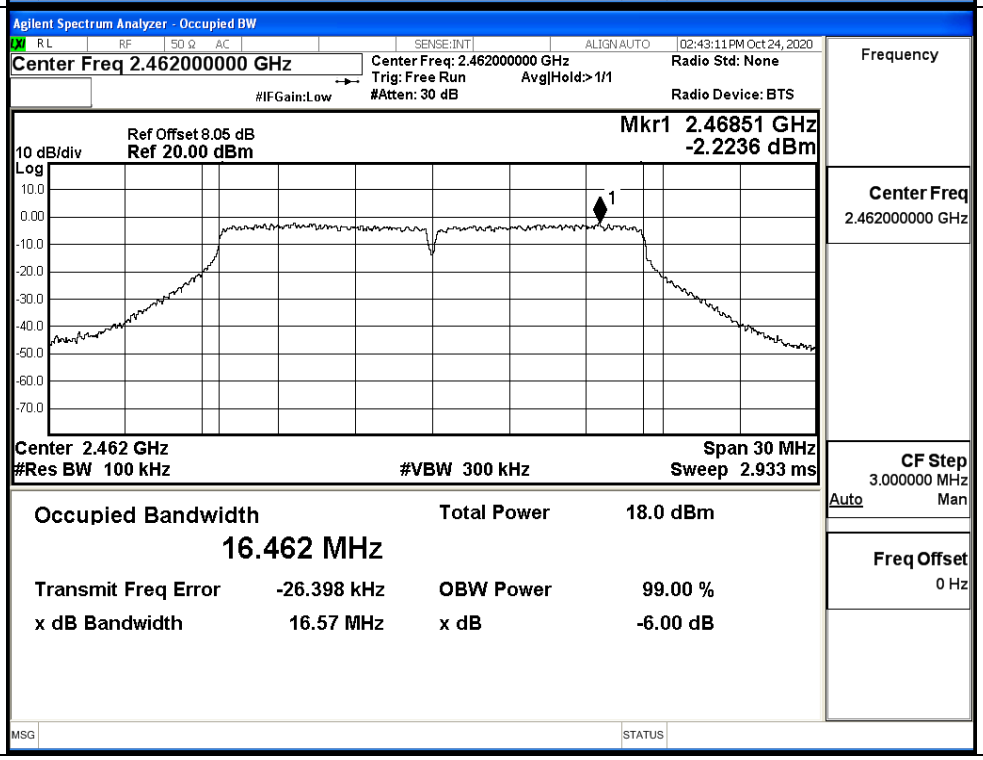
11N20SISO/LCH		
11N20SISO/MCH		

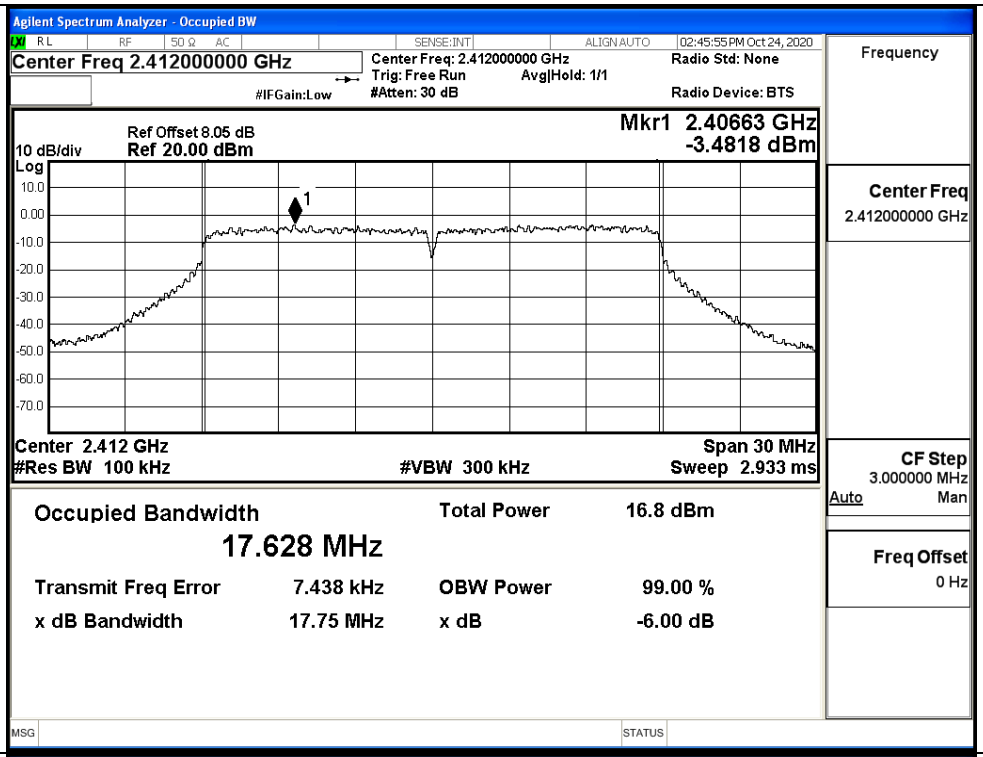
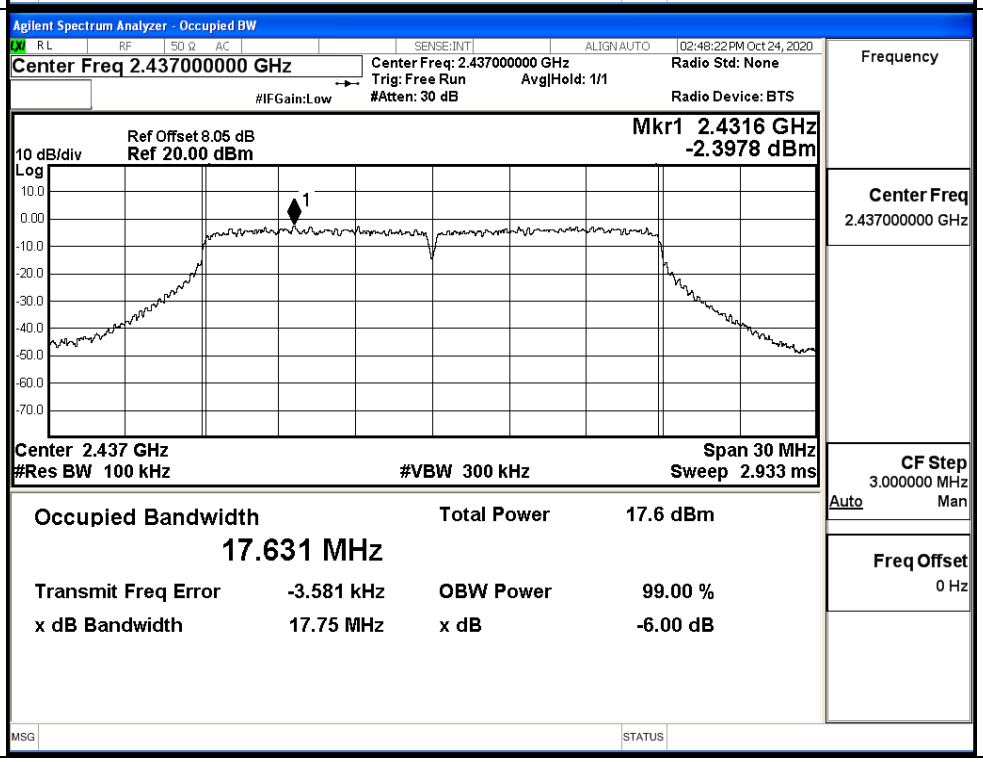
11N20SISO/HCH		
11N40SISO/LCH		

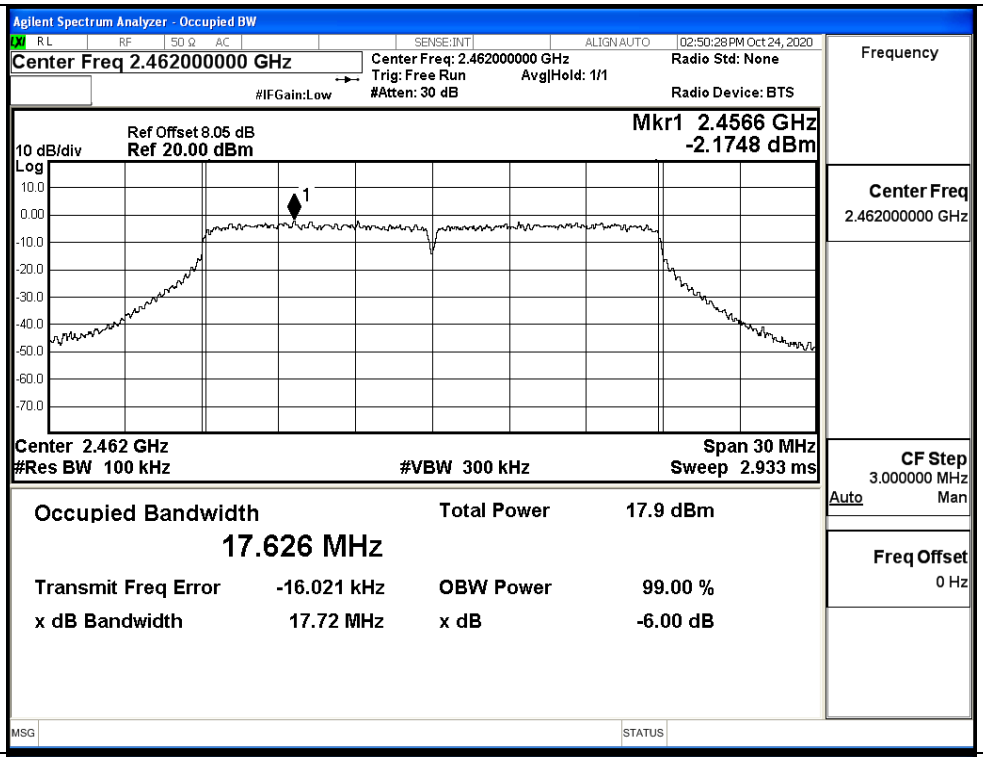
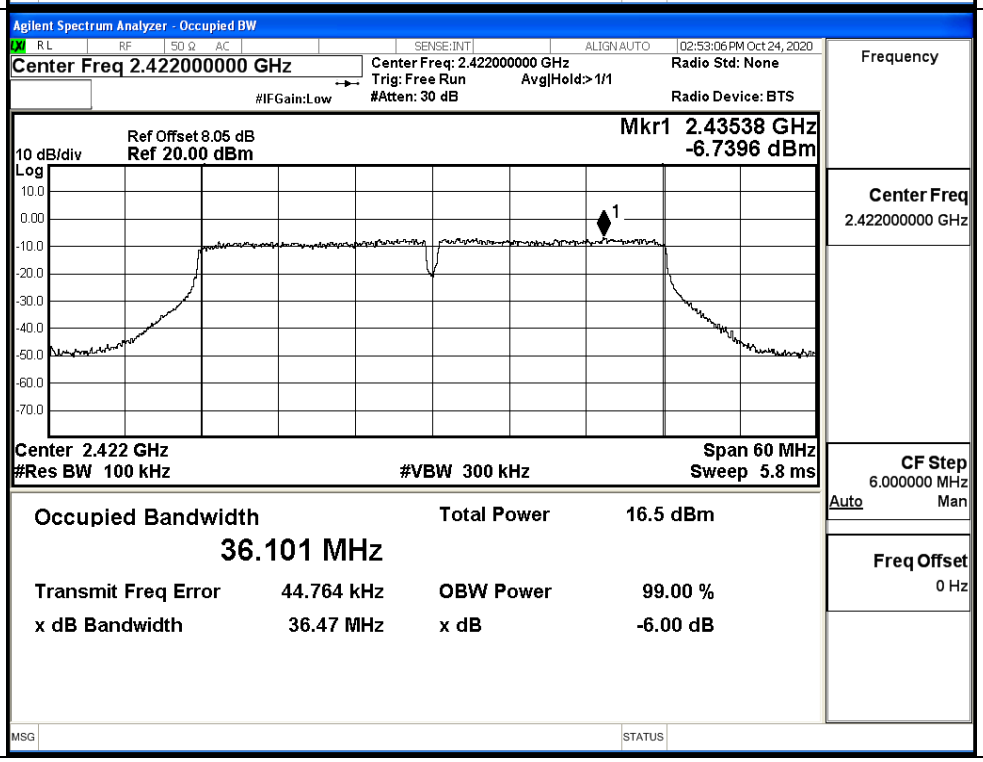
11N40SISO/MCH	
11N40SISO/HCH	

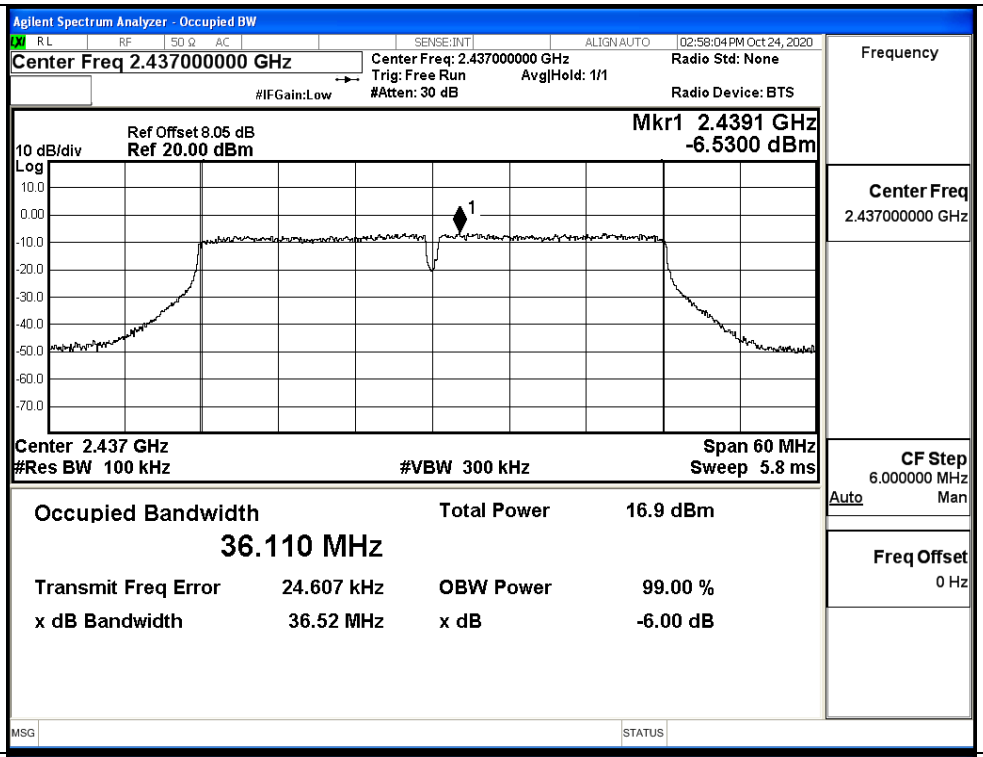
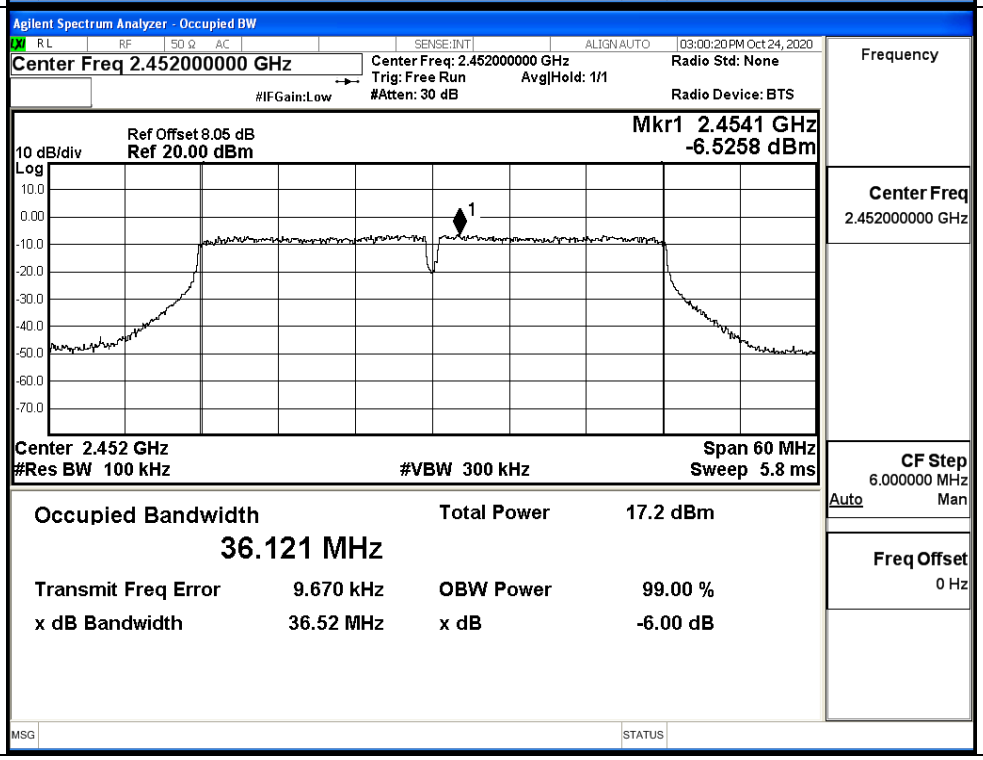
Test Graphs_ ANT1	
11B/LCH	
11B/MCH	

11B/HCH		
11G/LCH		

11G/MCH		
11G/HCH		

11N20SISO/LCH		
11N20SISO/MCH		

11N20SISO/HCH		
11N40SISO/LCH		

11N40SISO/MCH	
11N40SISO/HCH	

C.5 RF Conducted Spurious Emissions

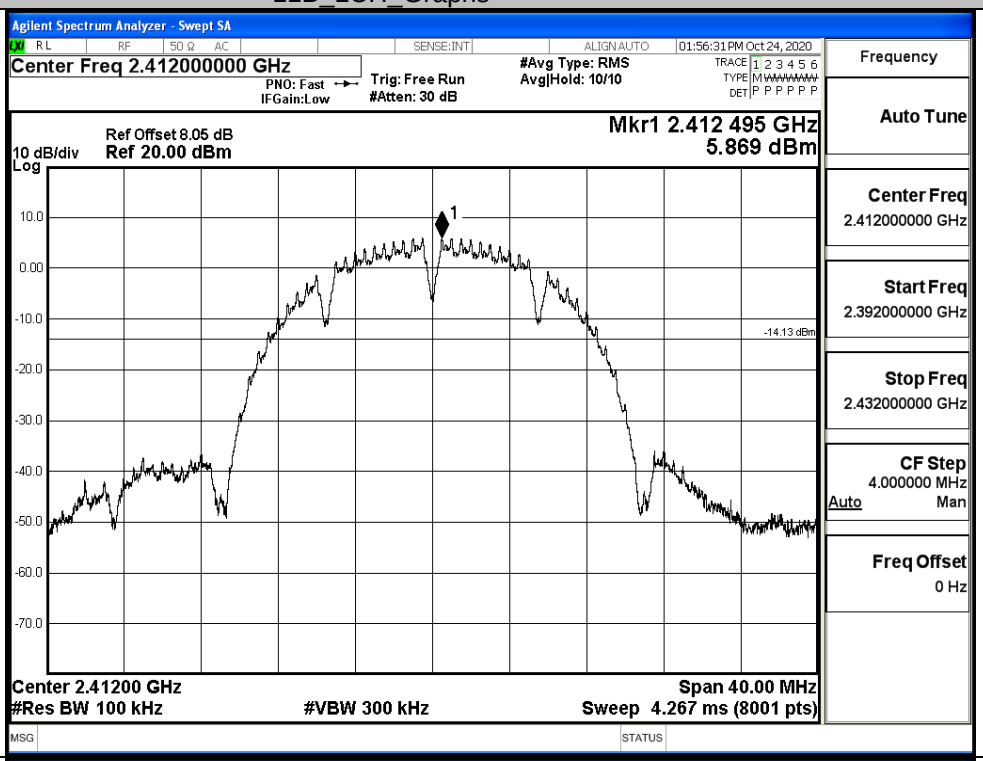
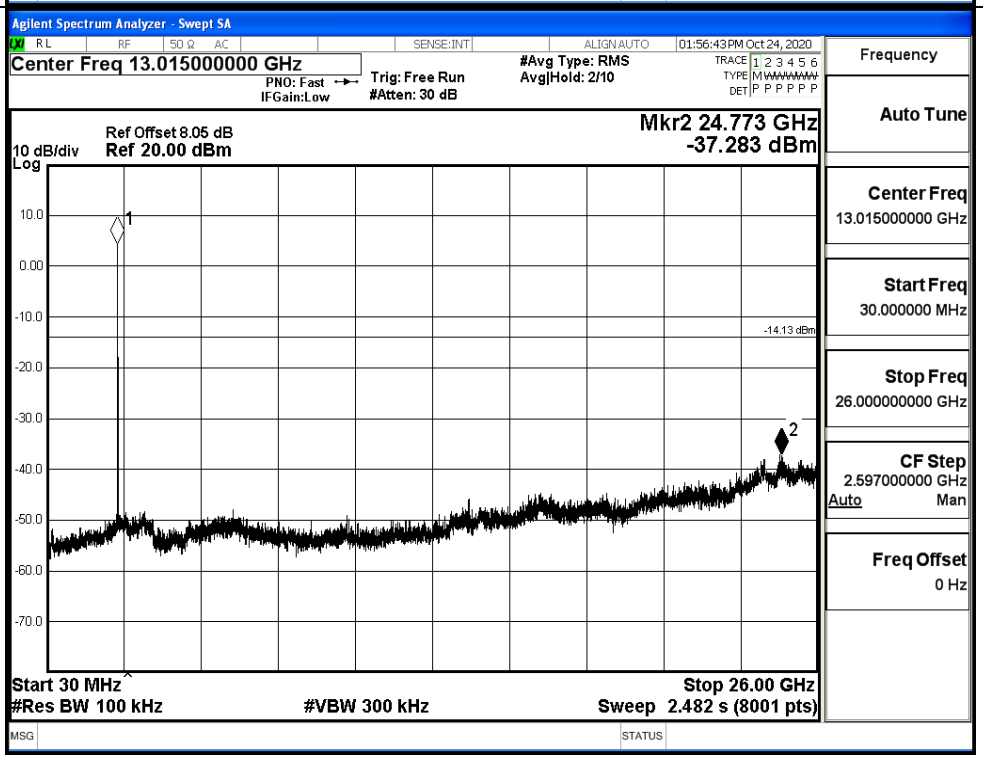
Ant0

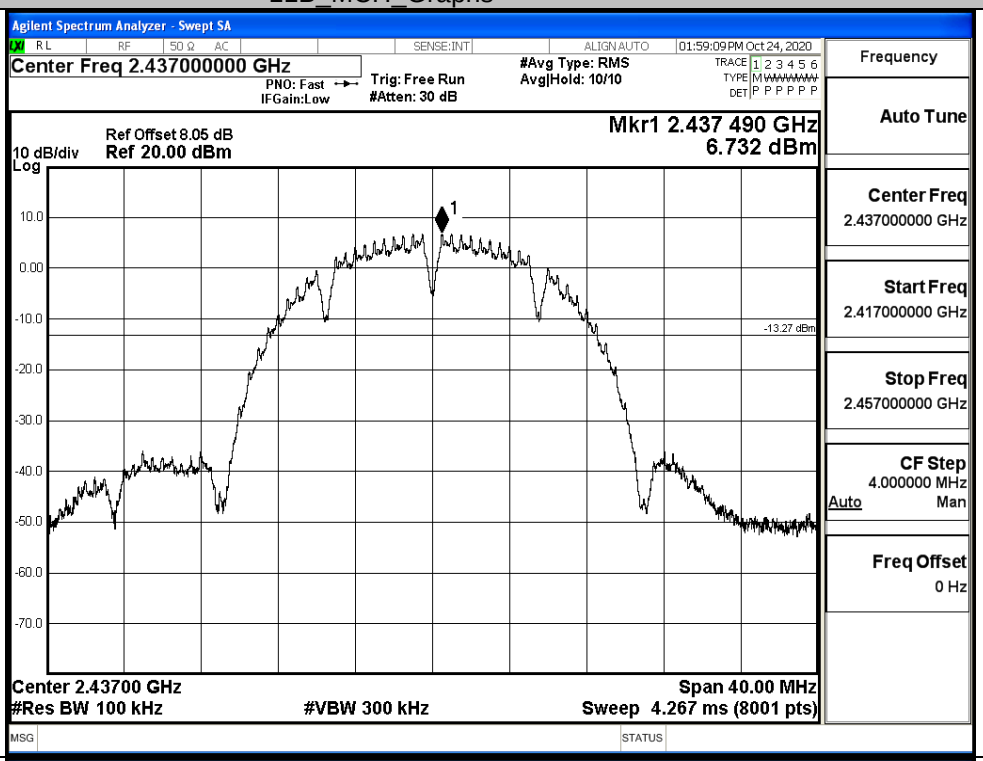
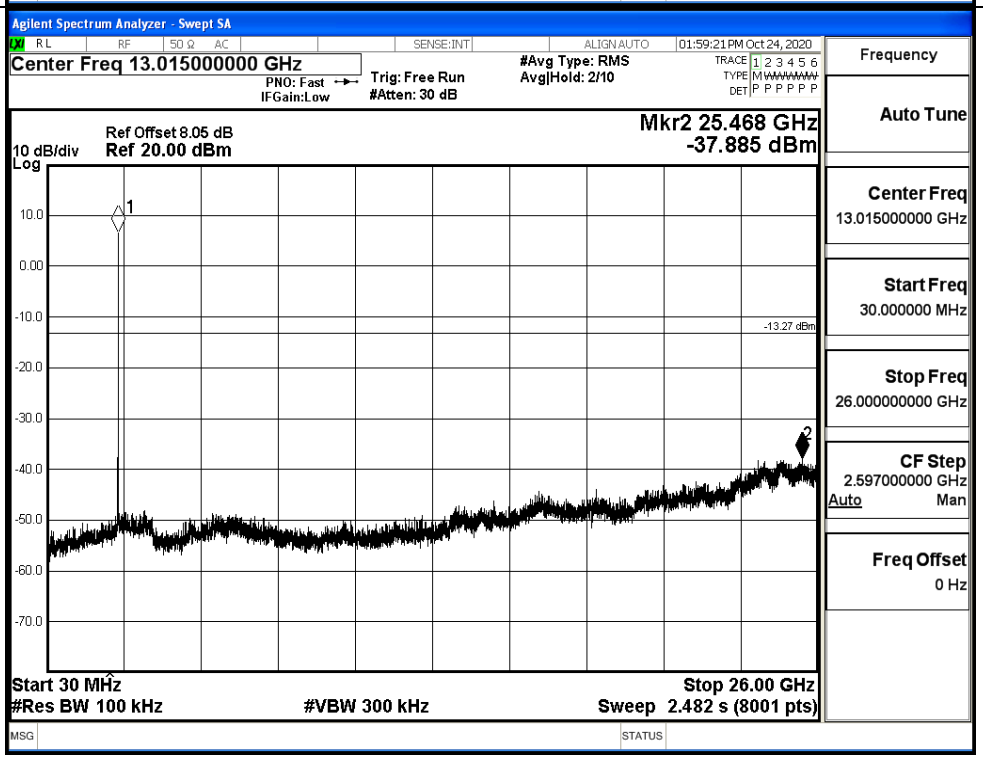
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	5.869	-37.283	-14.131	PASS
	MCH	6.732	-37.885	-13.268	PASS
	HCH	7.023	-37.769	-12.977	PASS
11G	LCH	-3.46	-37.801	-23.460	PASS
	MCH	-2.482	-37.562	-22.482	PASS
	HCH	-2.306	-36.995	-22.306	PASS
11N20 SISO	LCH	-3.871	-38.471	-23.871	PASS
	MCH	-2.851	-37.727	-22.851	PASS
	HCH	-2.314	-37.591	-22.314	PASS
11N40 SISO	LCH	-7.252	-37.421	-27.252	PASS
	MCH	-6.601	-37.771	-26.601	PASS
	HCH	-6.651	-37.600	-26.651	PASS

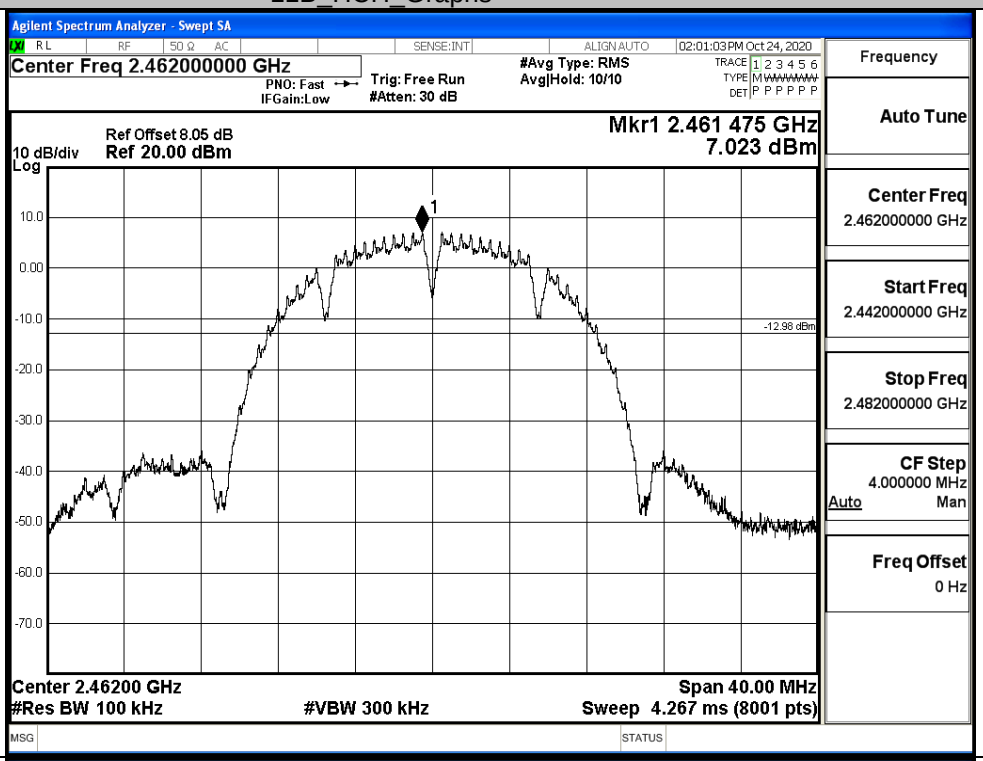
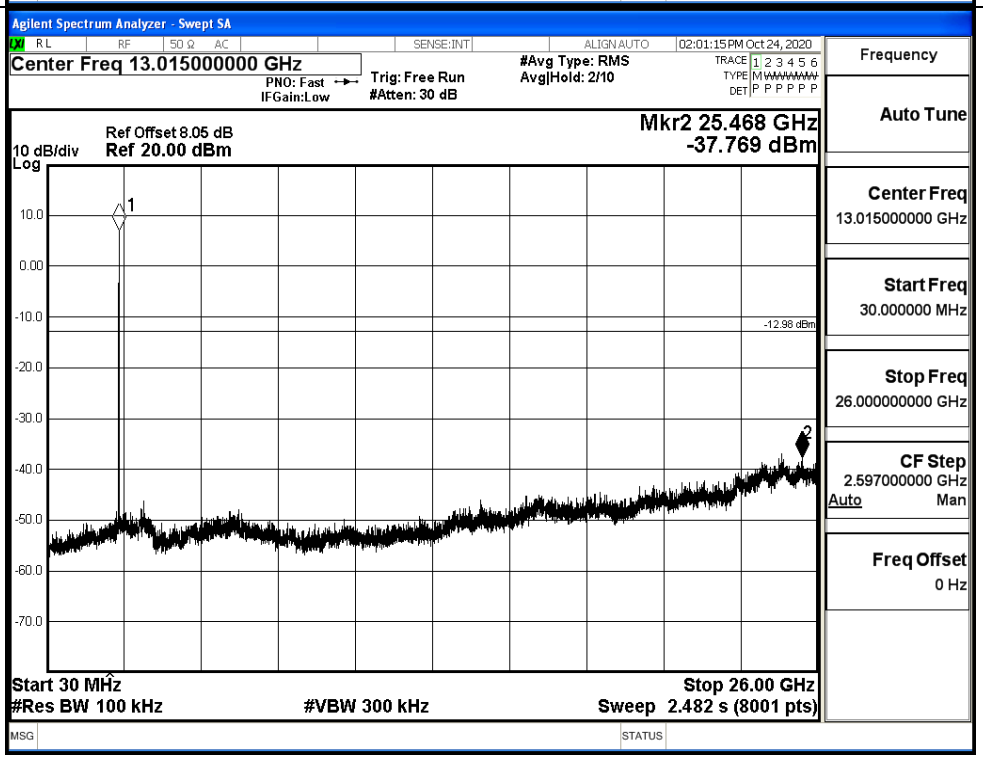
Ant1

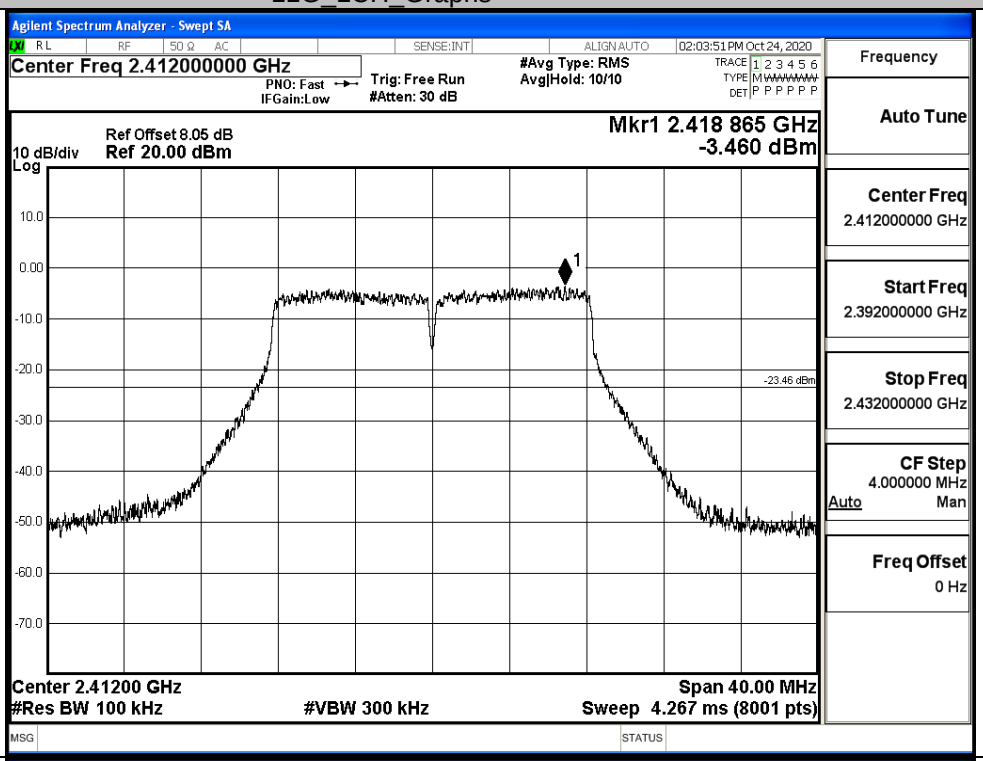
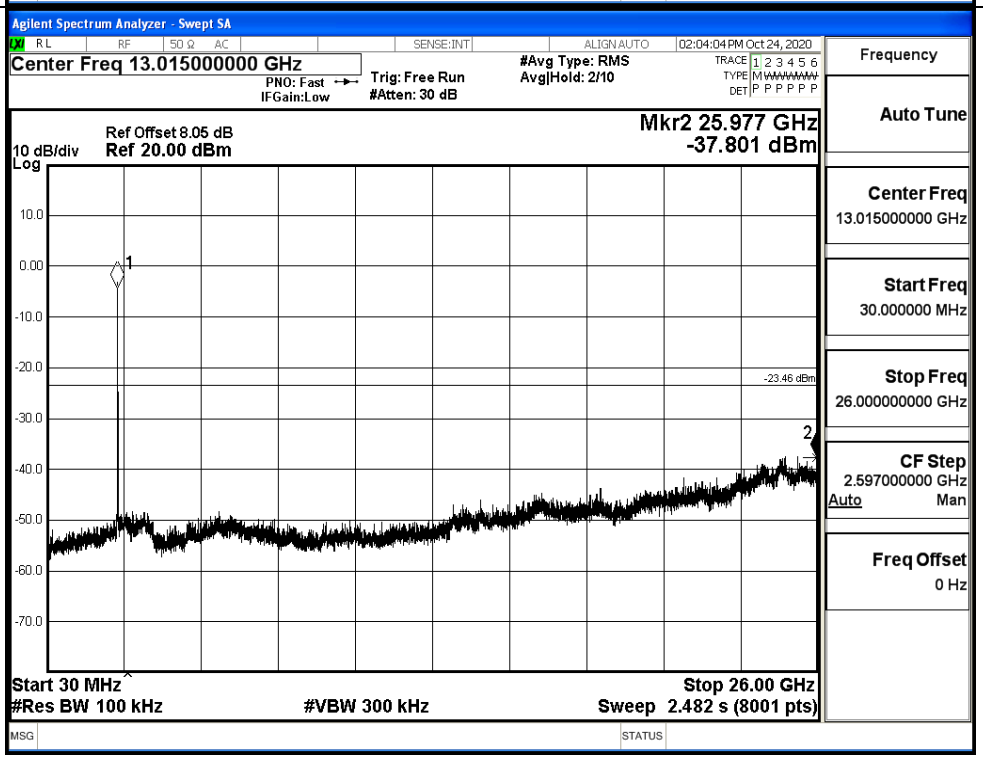
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	5.783	-37.927	-14.217	PASS
	MCH	6.616	-38.432	-13.384	PASS
	HCH	6.95	-37.369	-13.050	PASS
11G	LCH	-3.132	-37.987	-23.132	PASS
	MCH	-2.421	-37.638	-22.421	PASS
	HCH	-2.333	-37.436	-22.333	PASS
11N20 SISO	LCH	-3.555	-36.516	-23.555	PASS
	MCH	-2.414	-37.807	-22.414	PASS
	HCH	-2.007	-37.840	-22.007	PASS
11N40 SISO	LCH	-7.072	-37.842	-27.072	PASS
	MCH	-6.658	-37.597	-26.658	PASS
	HCH	-6.675	-37.877	-26.675	PASS

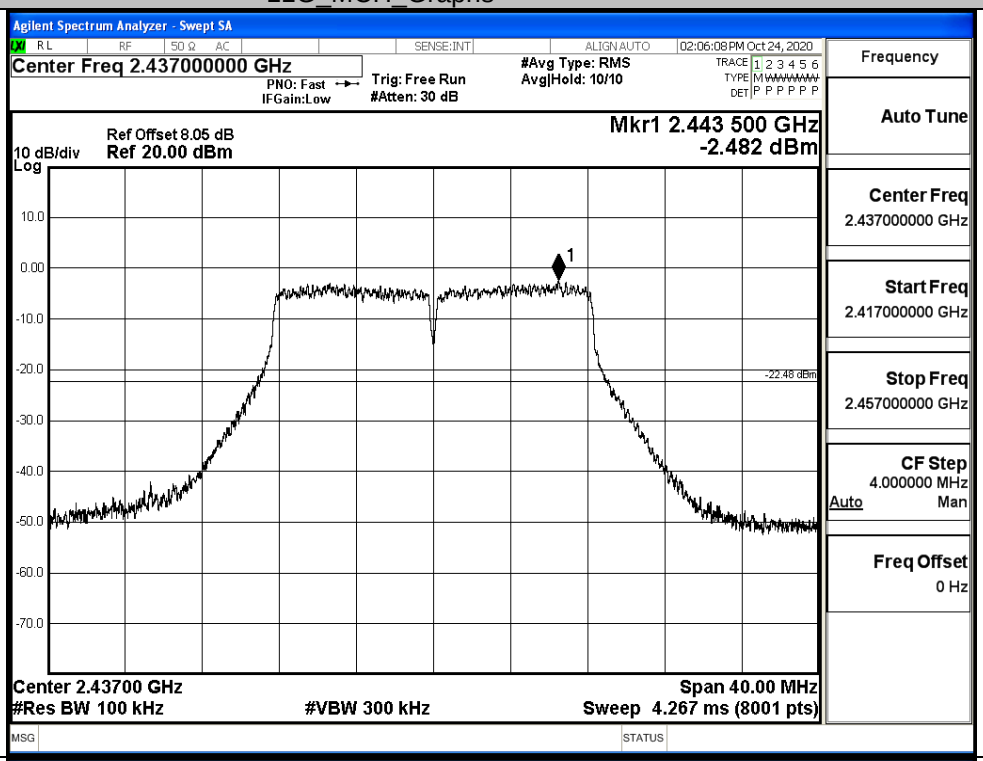
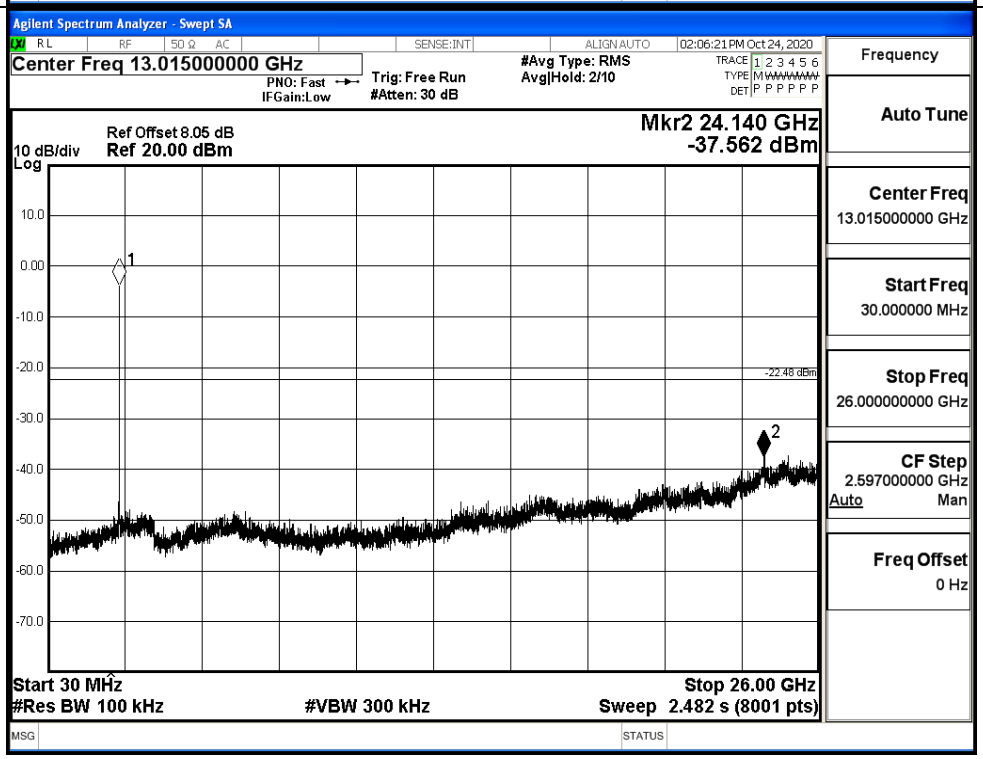
Ant0

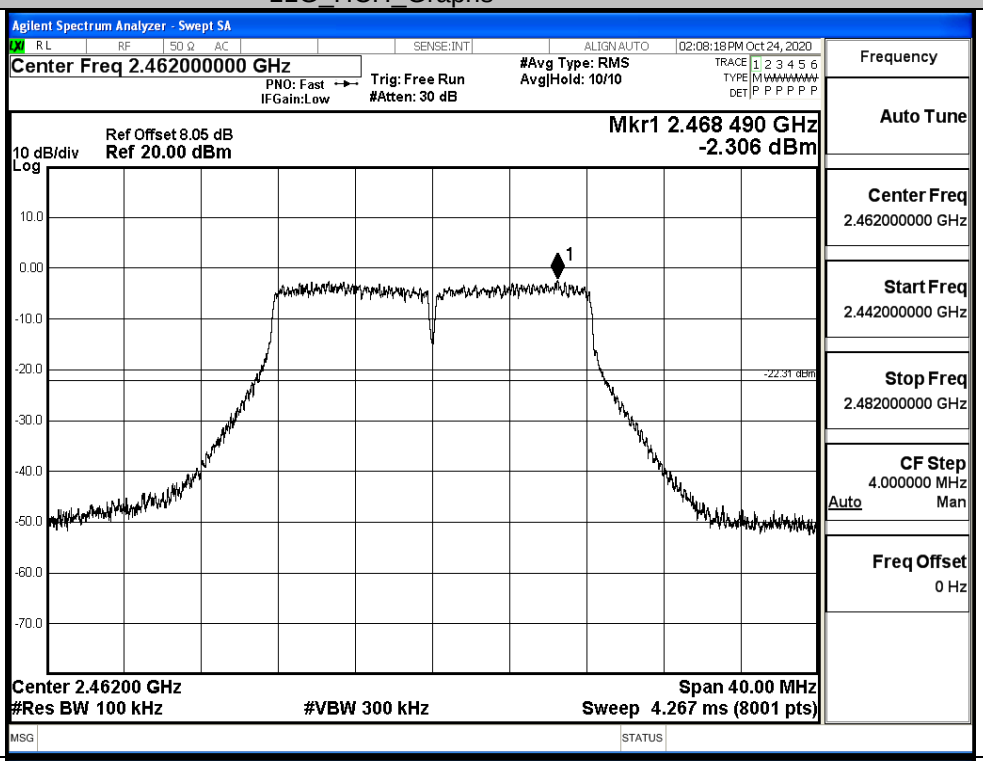
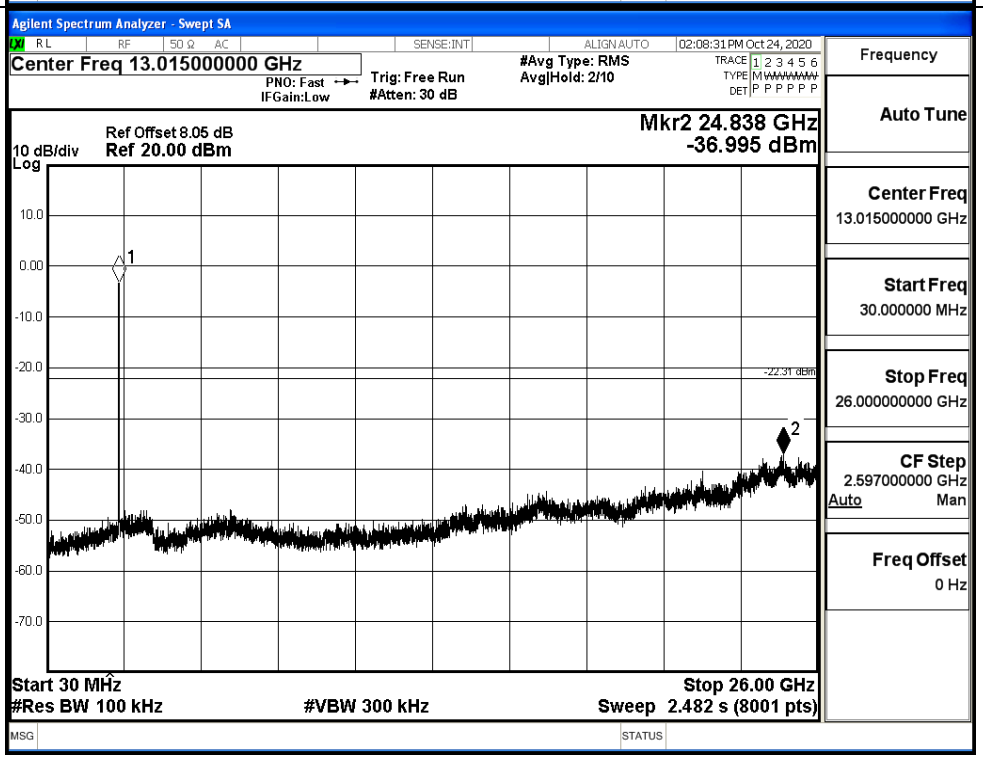
11B_LCH_Graphs	
Pref/11B/LCH	
Puw/11B/LCH	

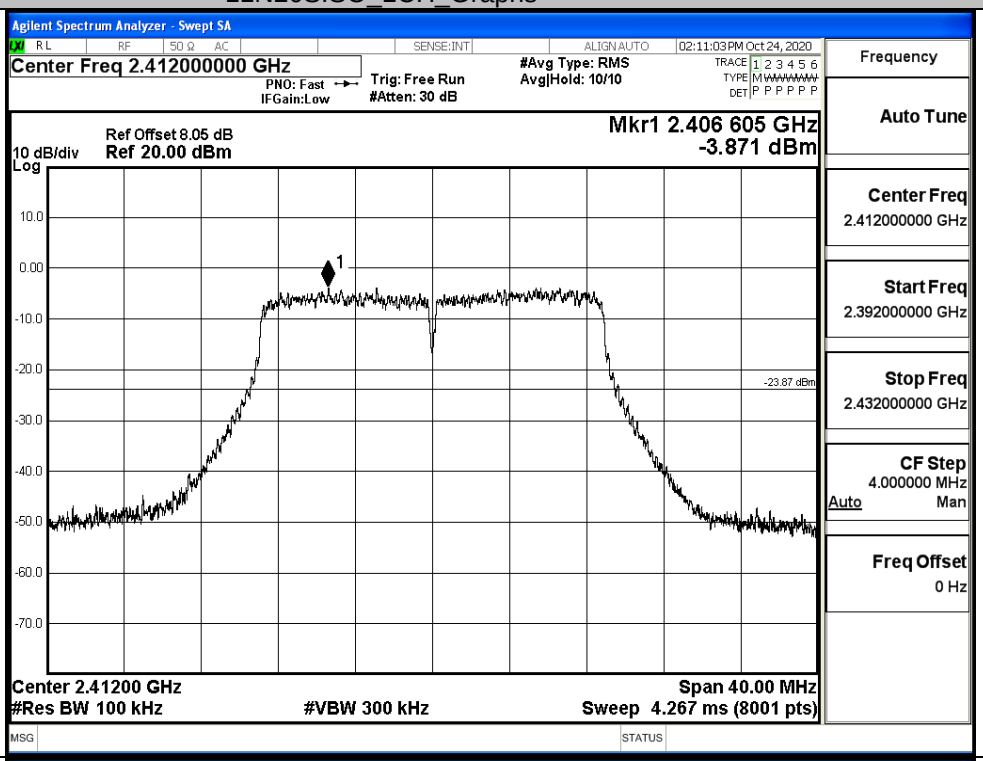
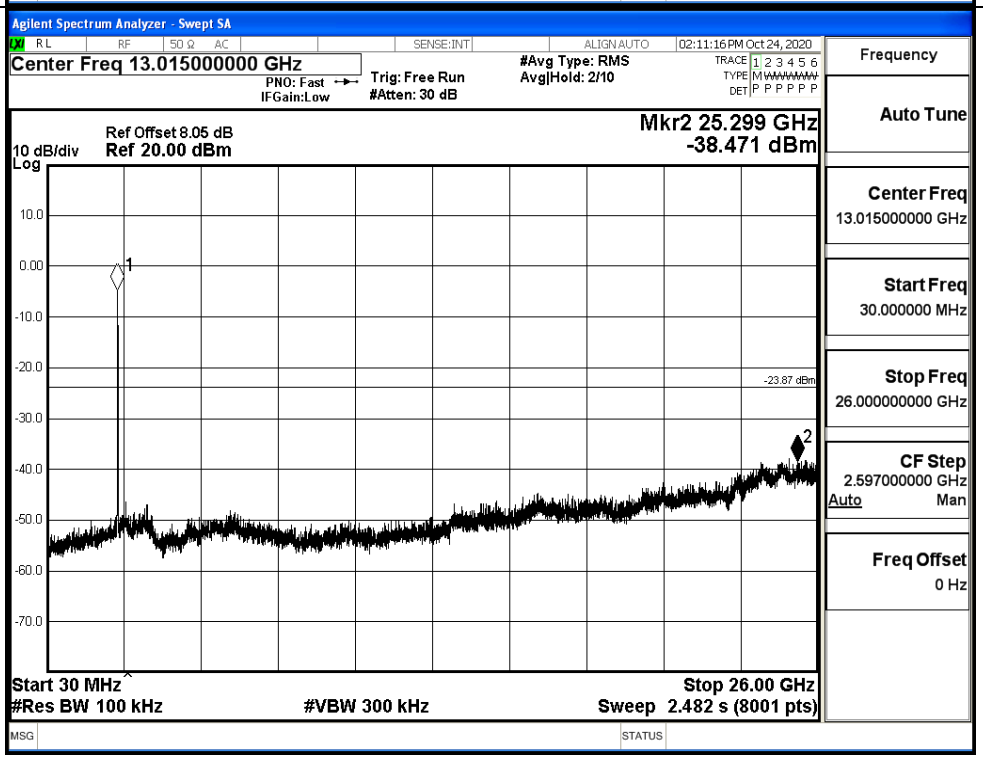
11B_MCH_Graphs		
Pref/11B/MCH		
Puw/11B/MCH		

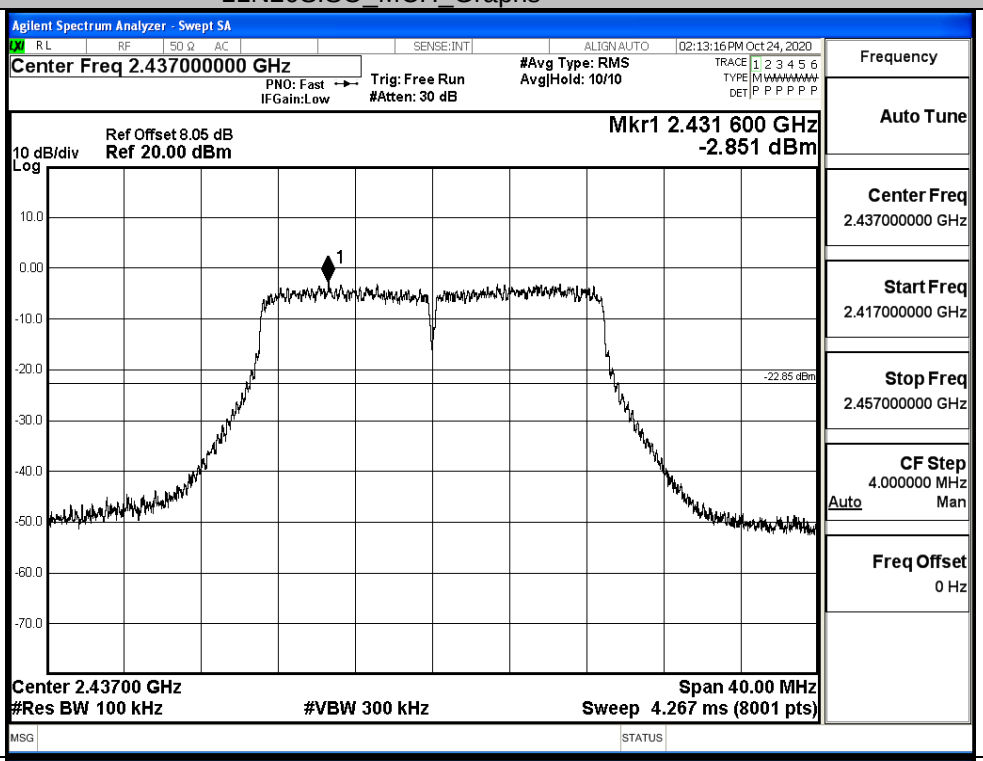
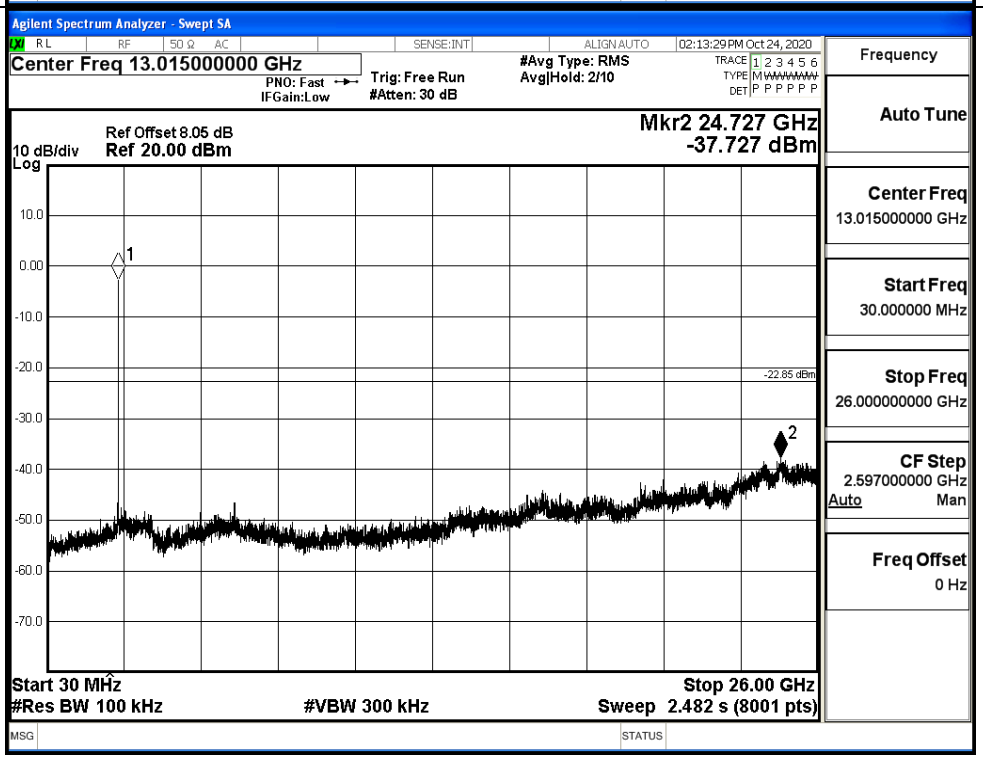
11B_HCH_Graphs	
Pref/11B/HCH	
Puw/11B/HCH	

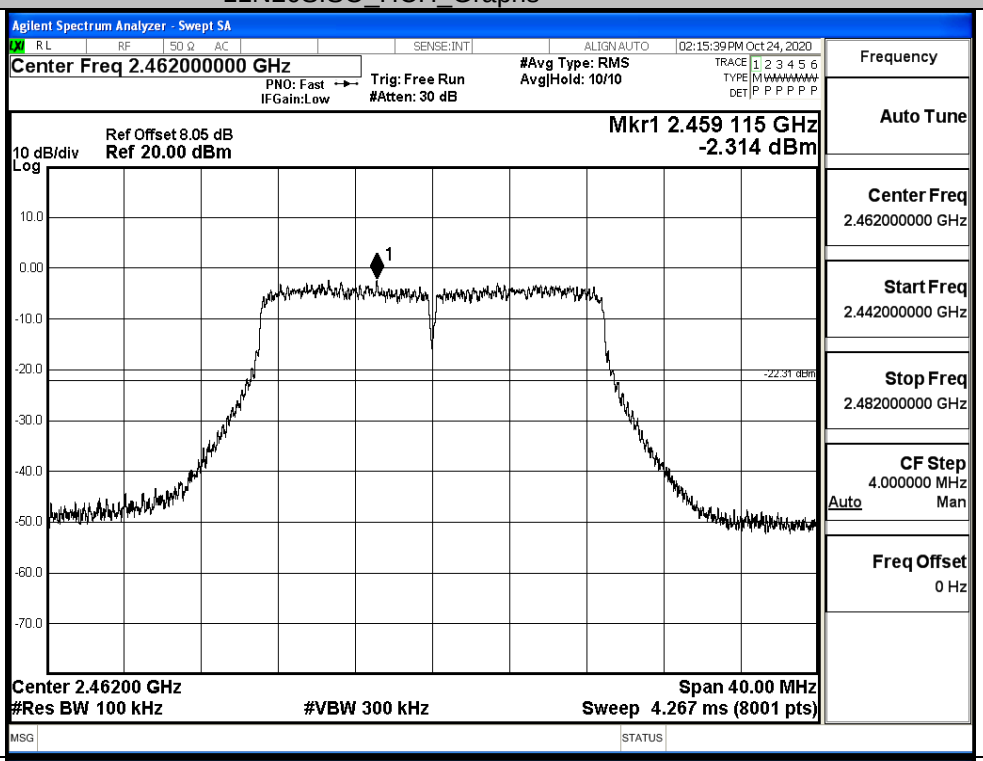
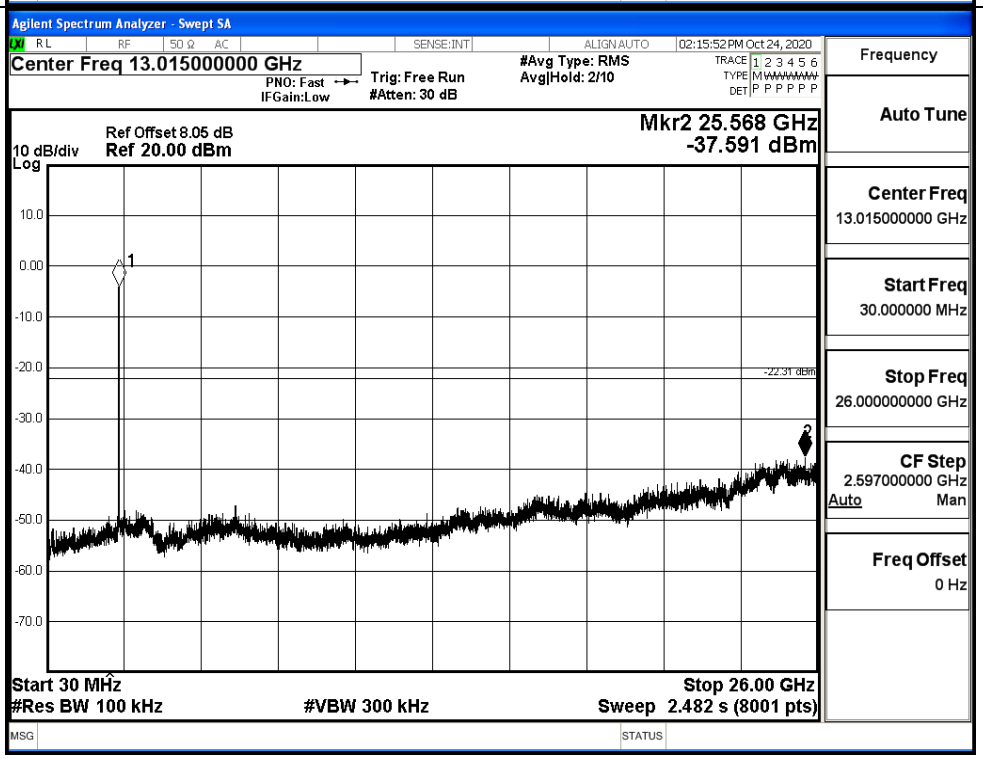
11G_LCH_Graphs	
Pref/11G/LCH	
Puw/11G/LCH	

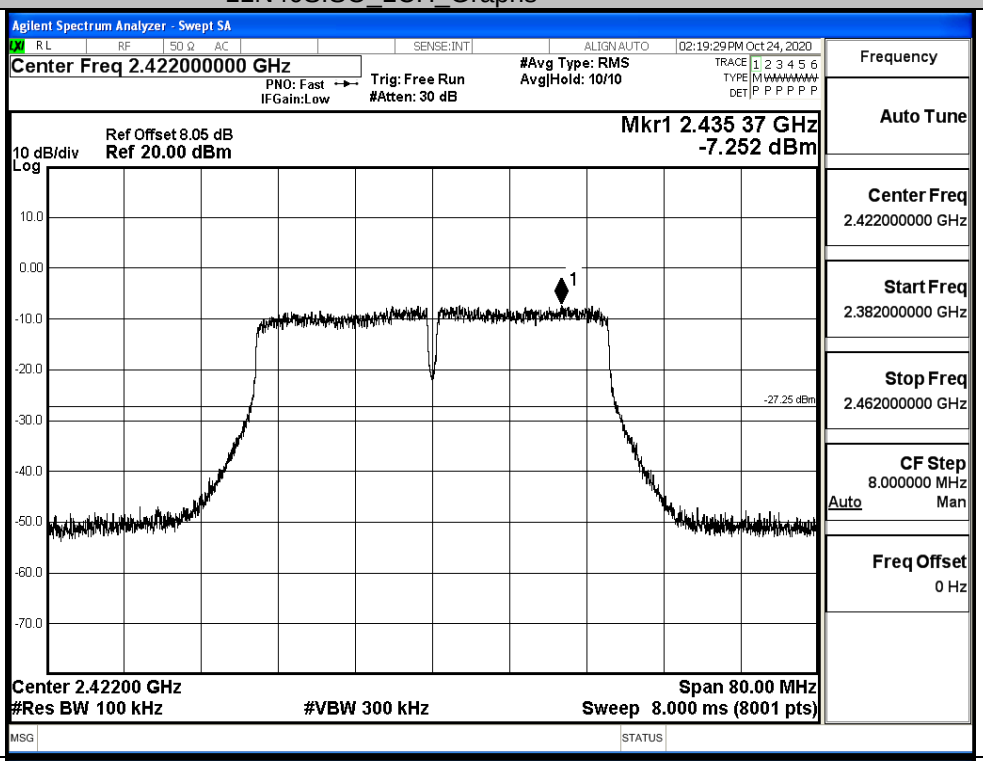
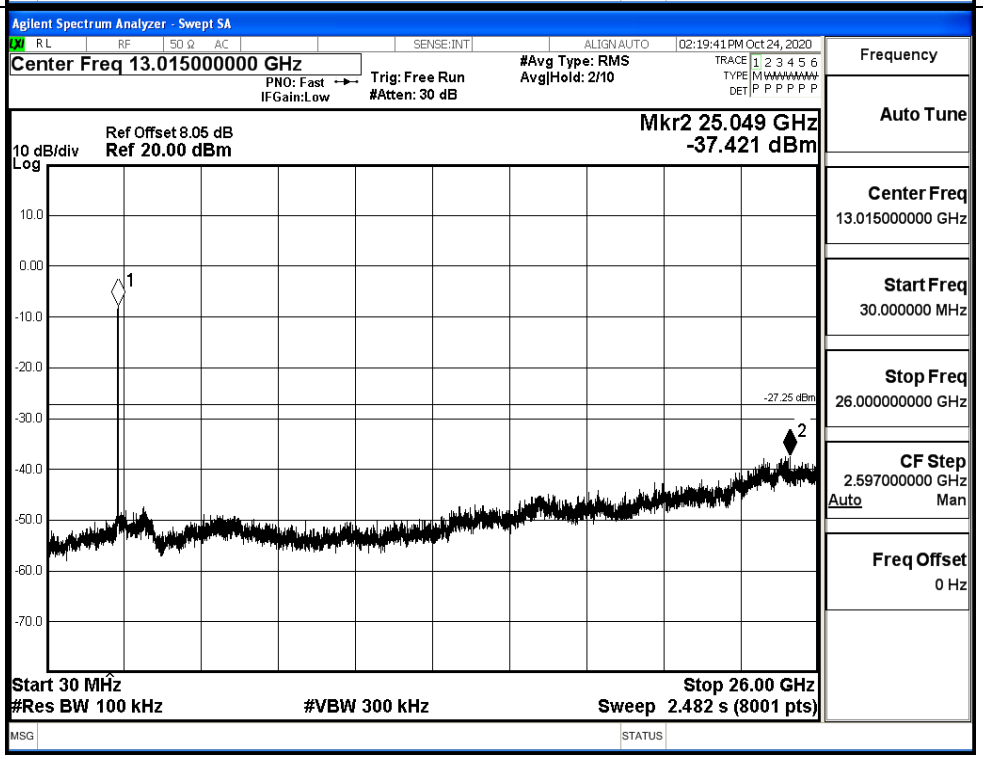
11G_MCH_Graphs		
Pref/11G/MCH		
Puw/11G/MCH		

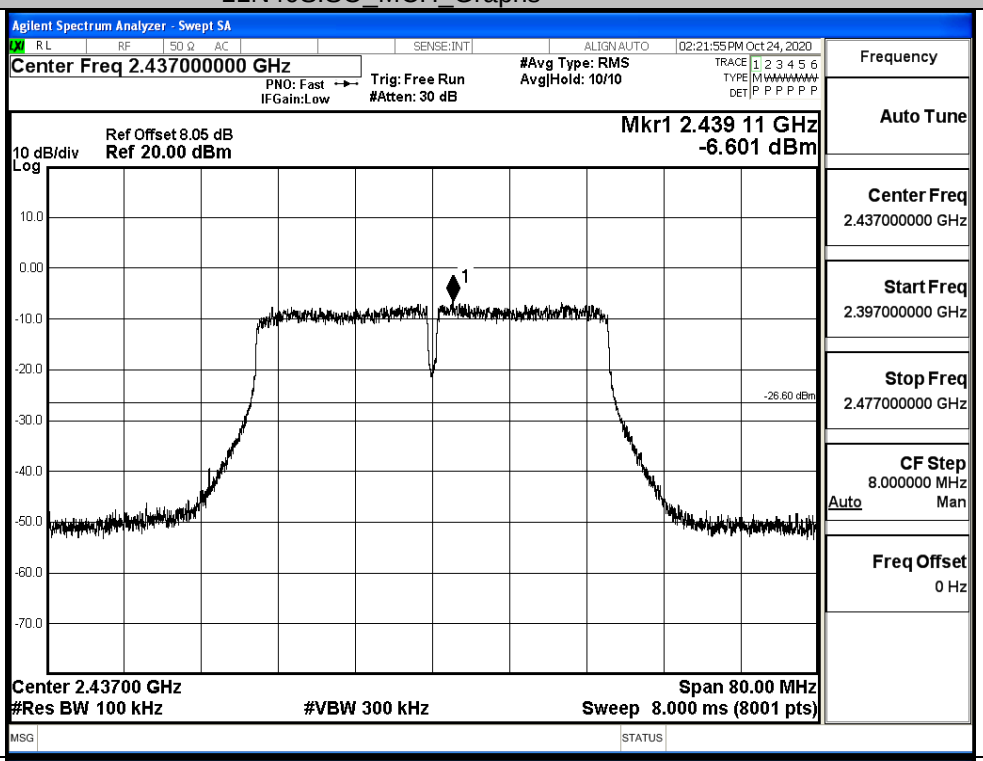
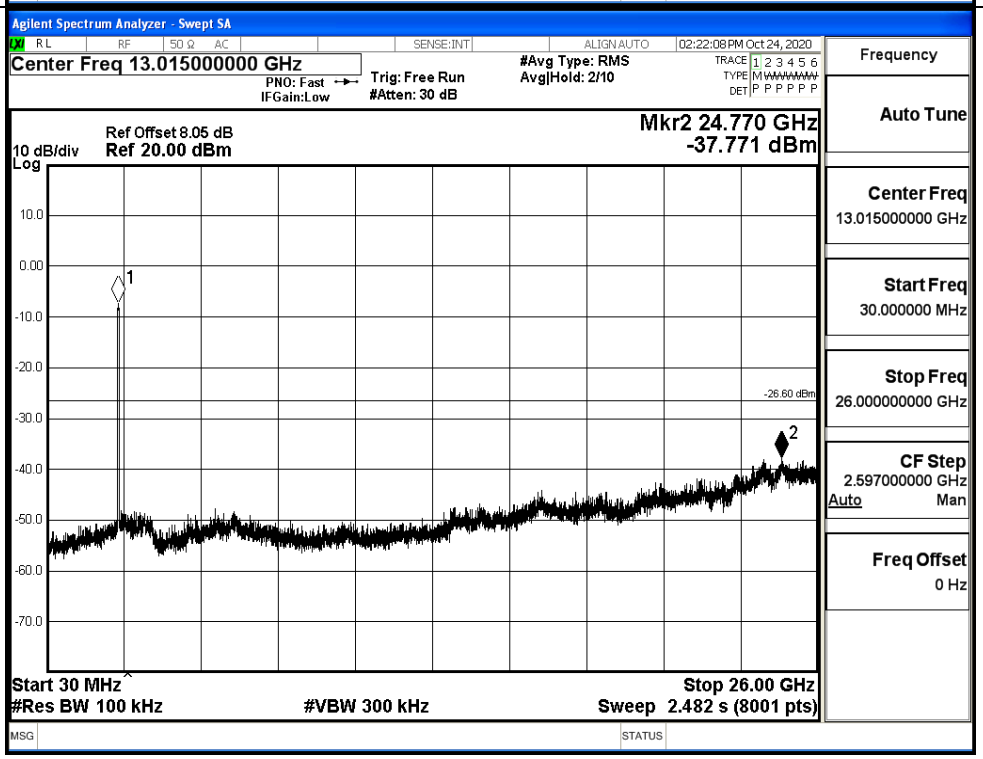
11G_HCH_Graphs	
Pref/11G/HCH	
Puw/11G/HCH	

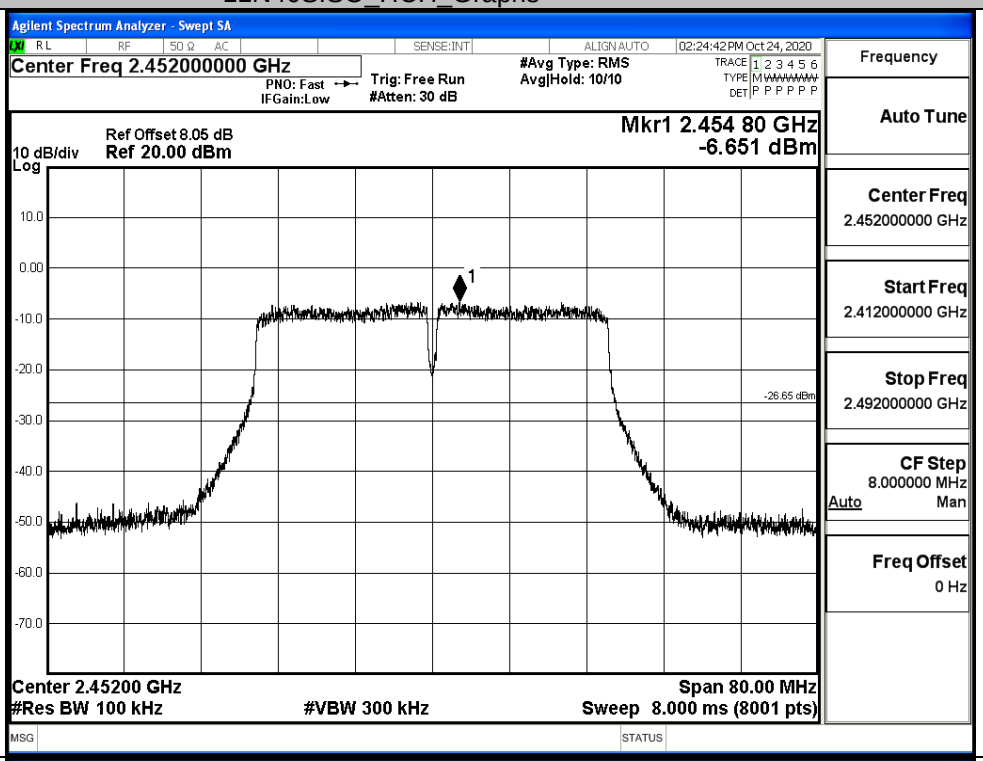
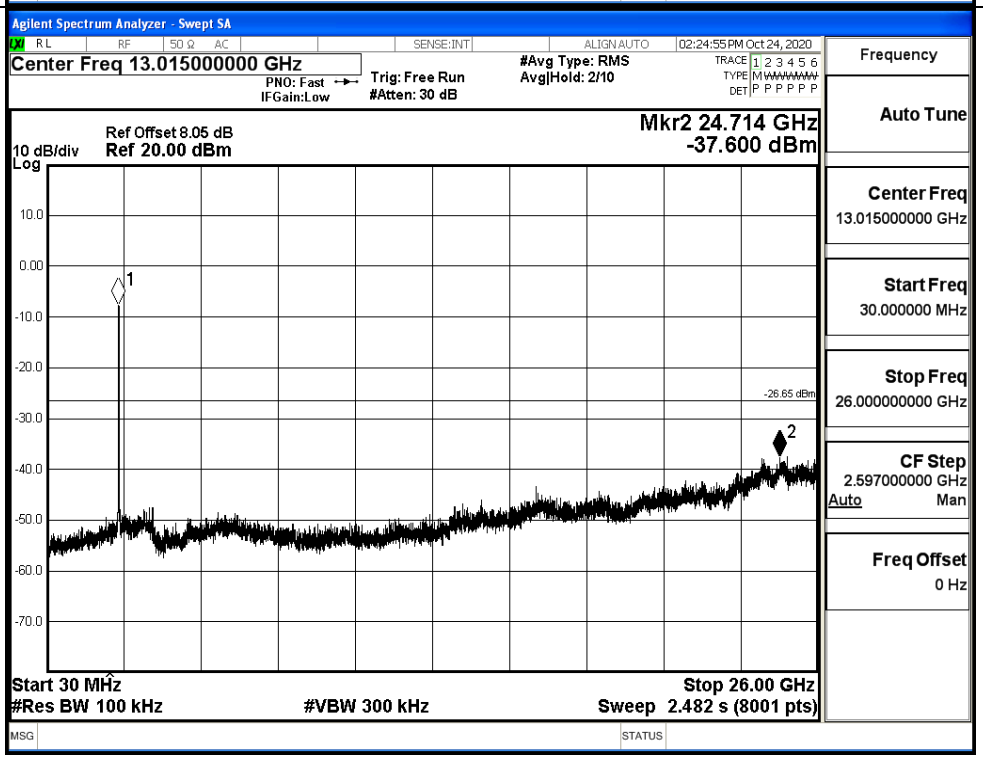
11N20SISO_LCH_Graphs		
Pref/11N20SISO/LCH		
Puw/11N20SISO/LCH		

11N20SISO_MCH_Graphs	
Pref/11N20 SISO/MCH	
Puw/11N20 SISO/MCH	

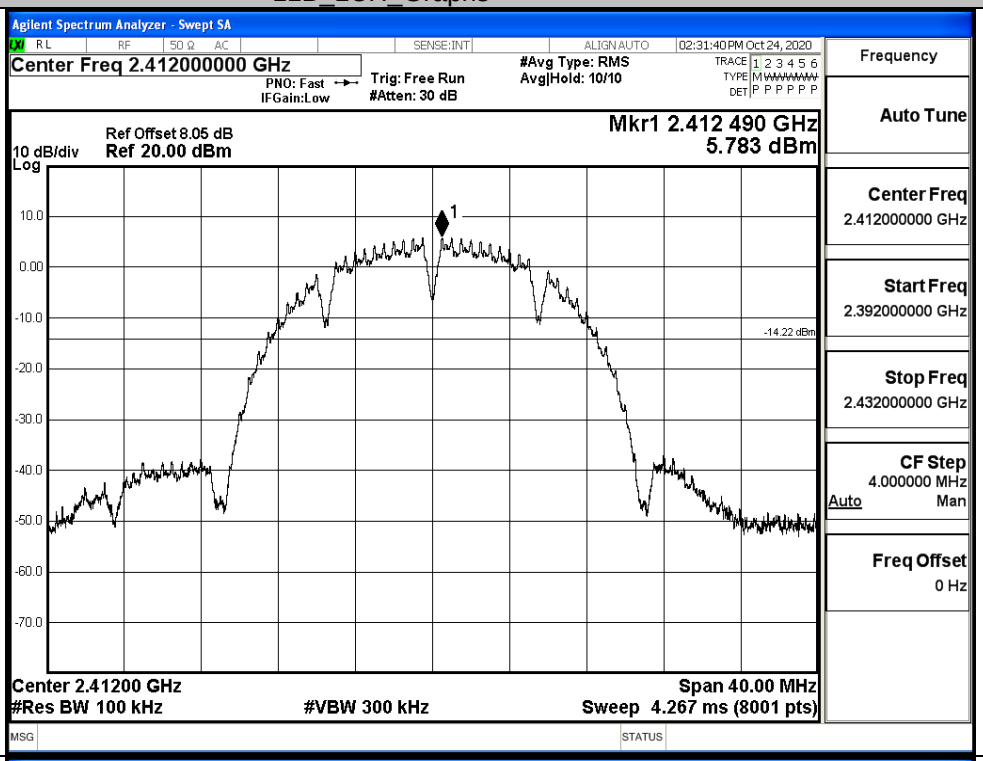
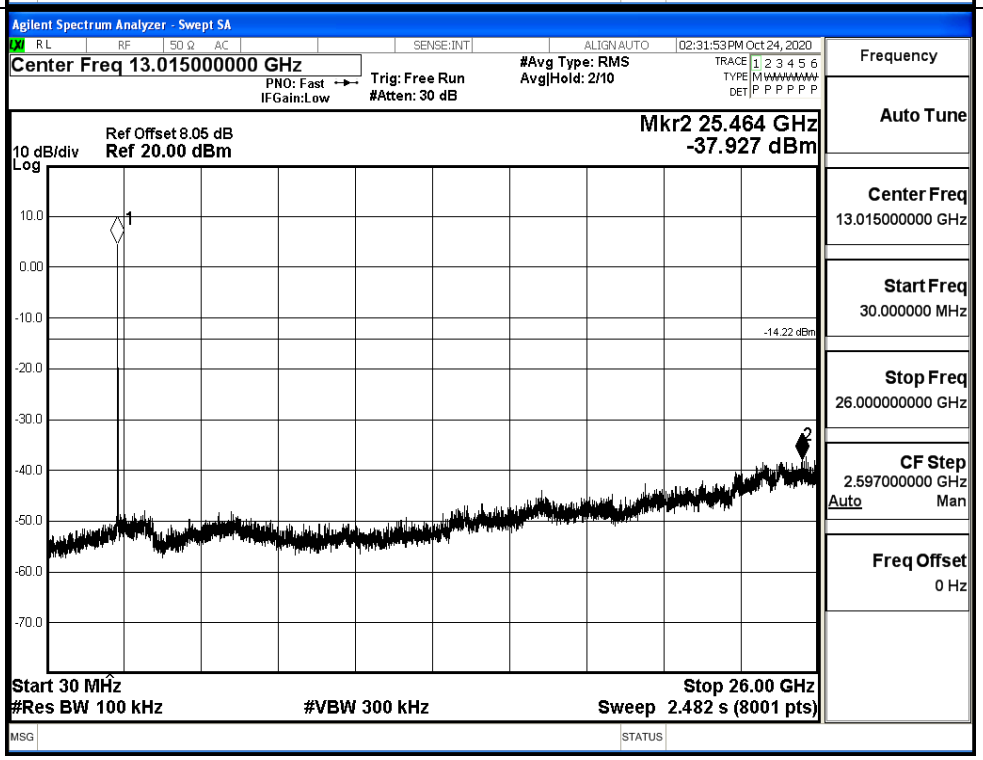
11N20SISO_HCH_Graphs	
Pref/11N20 SISO/HCH	
Puw/11N20 SISO/HCH	

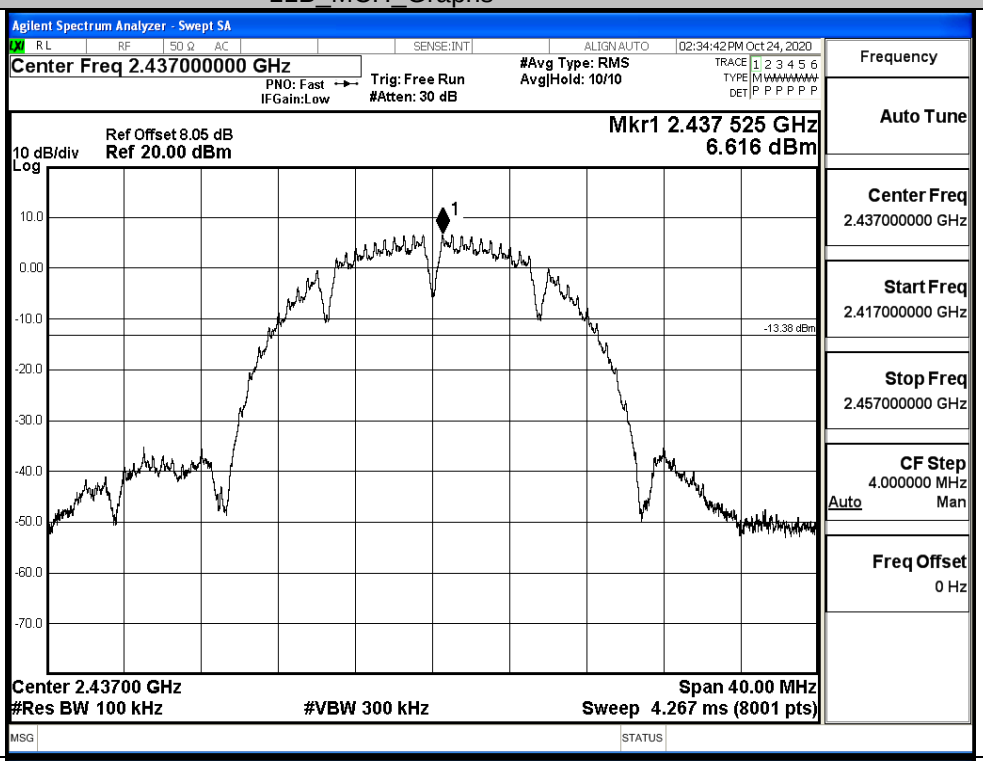
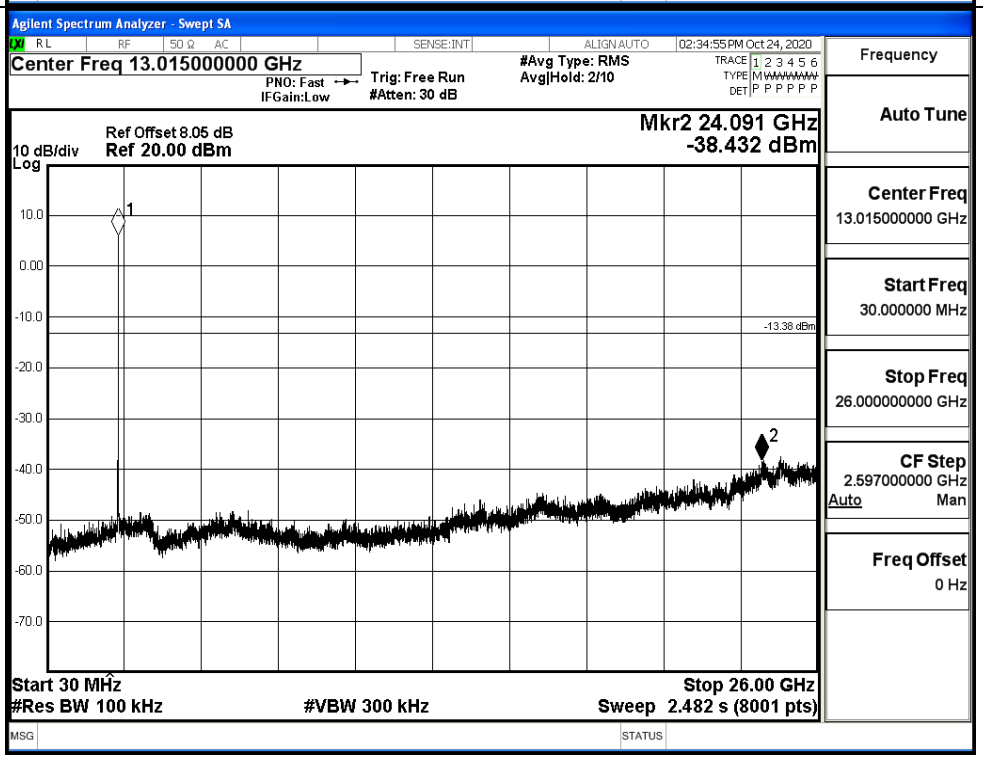
11N40SISO_LCH_Graphs	
Pref/11N40 SISO/LCH	
Puw/11N40 SISO/LCH	

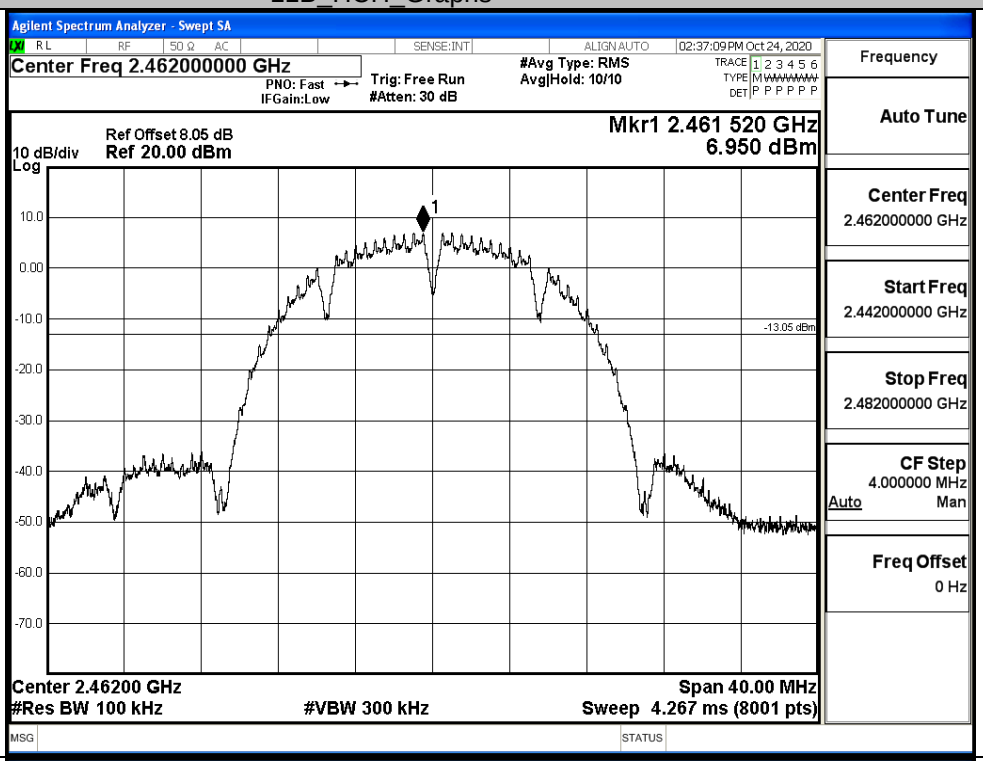
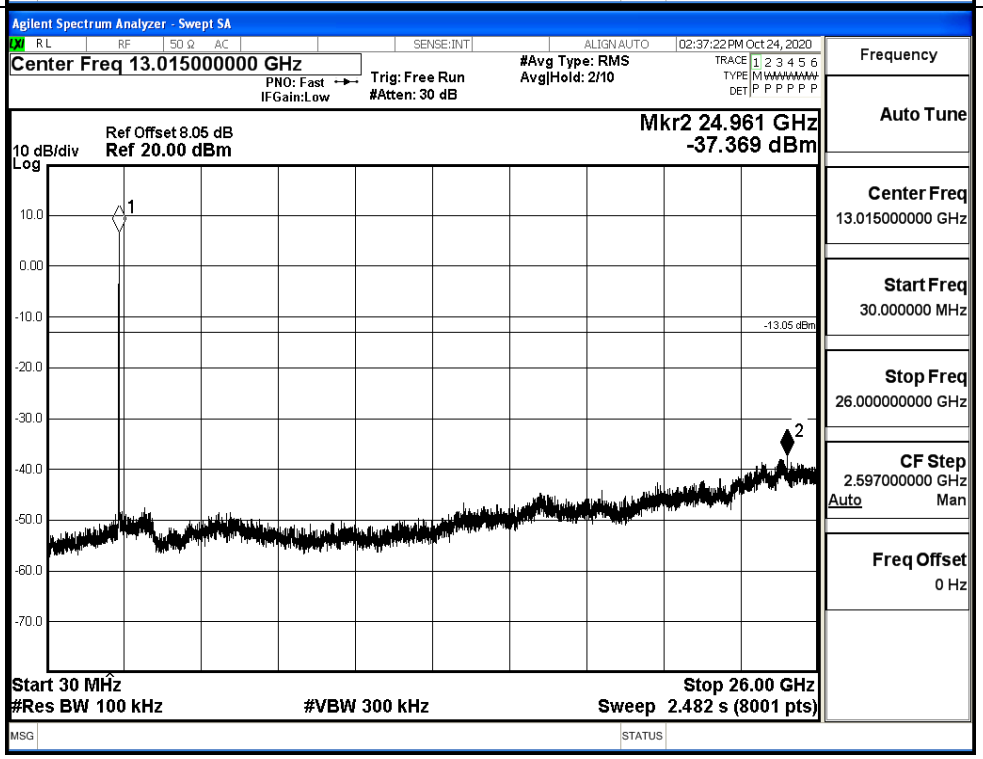
11N40SISO_MCH_Graphs	
Pref/11N40 SISO/MCH	
Puw/11N40 SISO/MCH	

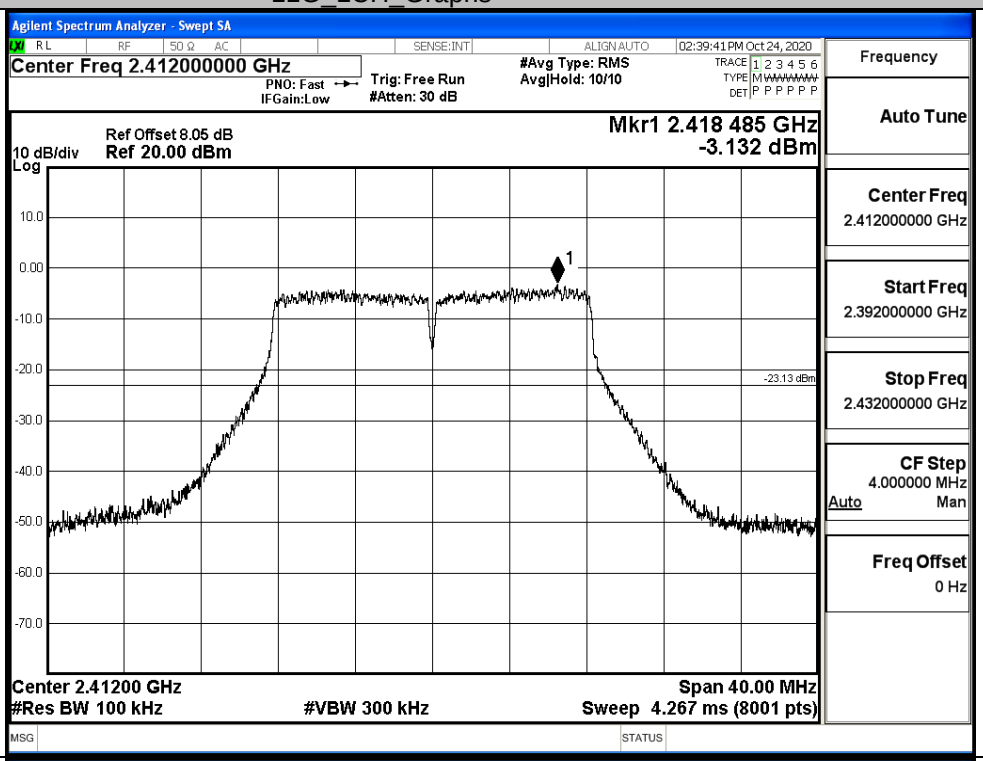
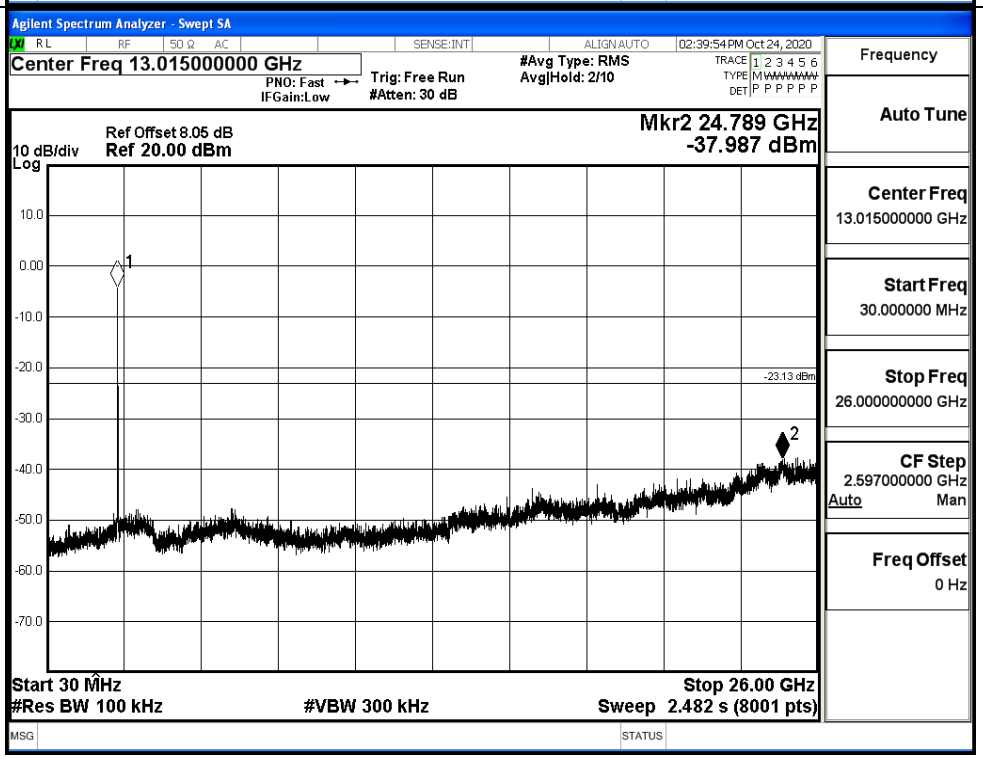
11N40SISO_HCH_Graphs	
Pref/11N40 SISO/HCH	
Puw/11N40 SISO/HCH	

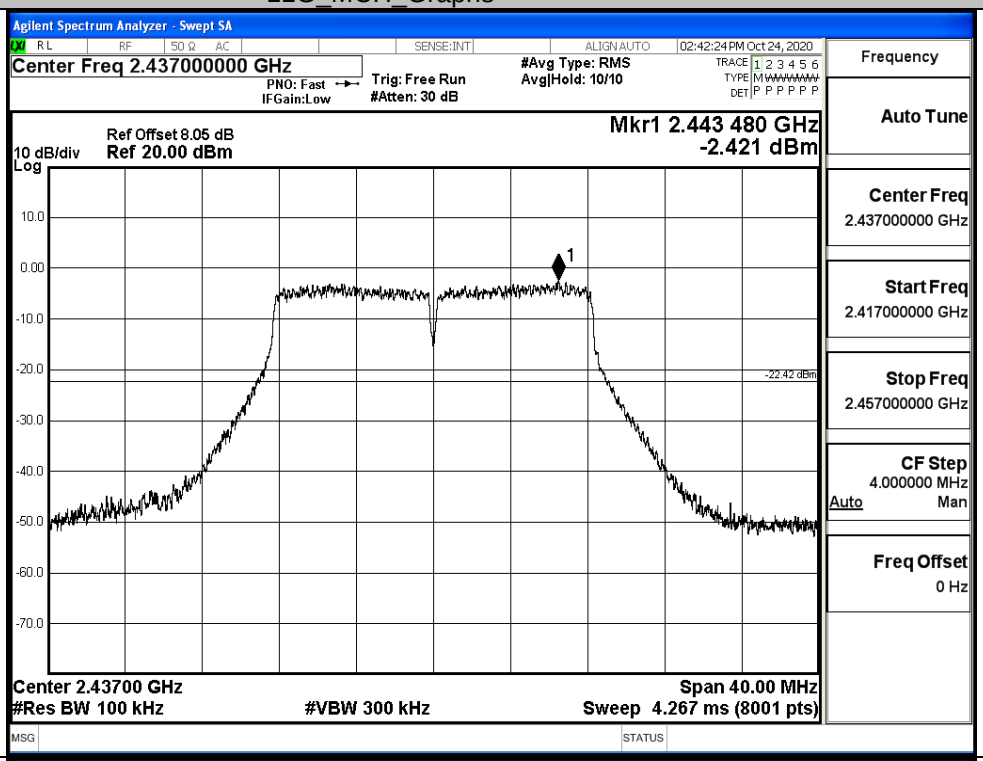
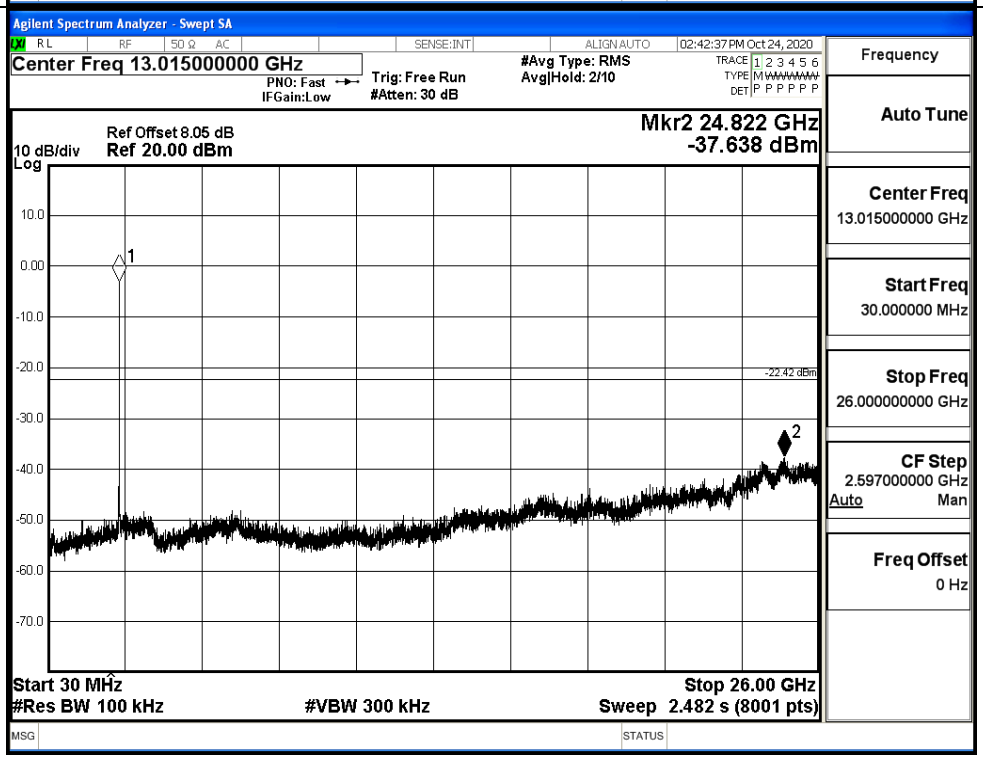
Ant1

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

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

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

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

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