Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Wireless Repeater/AP/Router

Trade Mark: N/A

Test Model: E1322

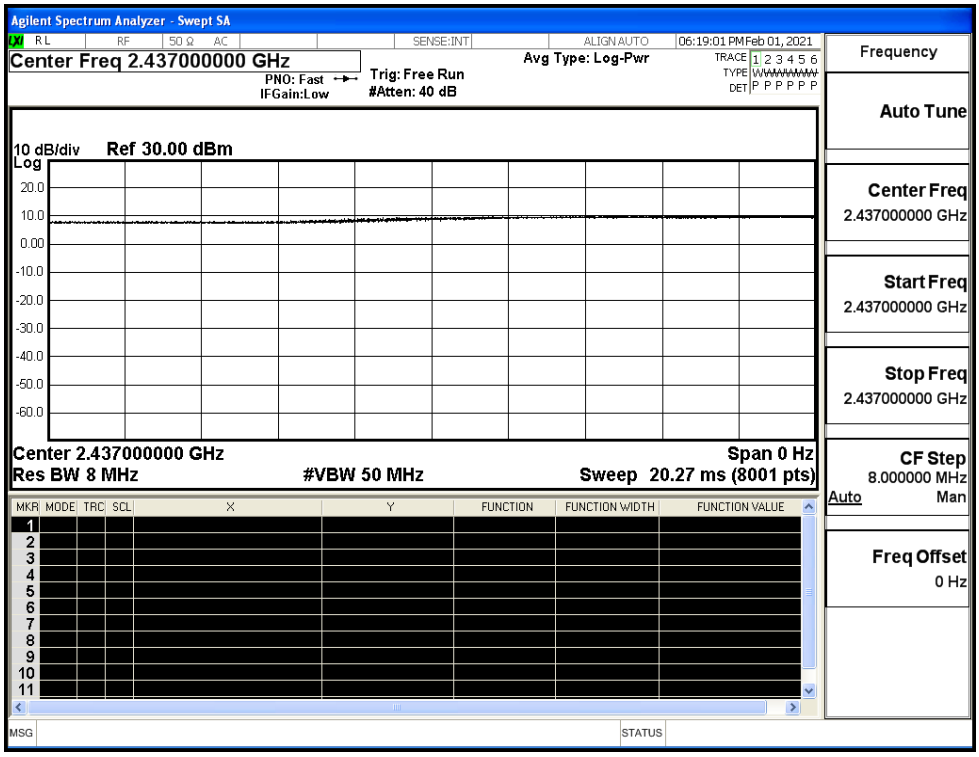
Environmental Conditions

Temperature:	22.1 ° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

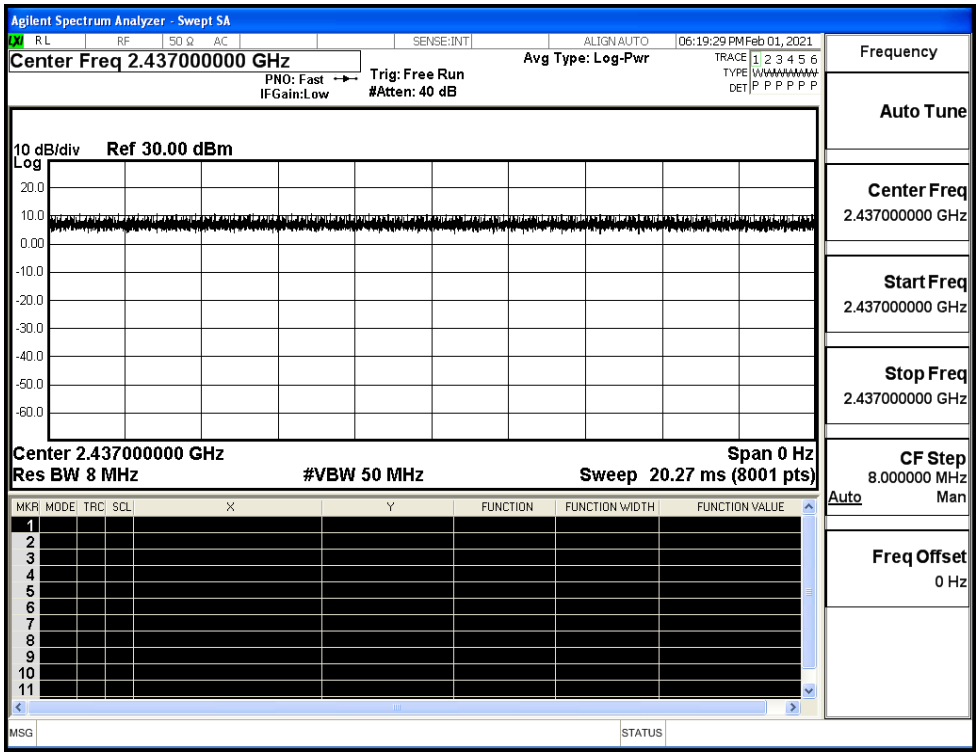
A.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant0	100	PASS
11G	2437	Ant0	100	PASS
11N20SISO	2437	Ant0	100	PASS
11N40SISO	2437	Ant0	100	PASS
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS
11N40SISO	2437	Ant1	100	PASS

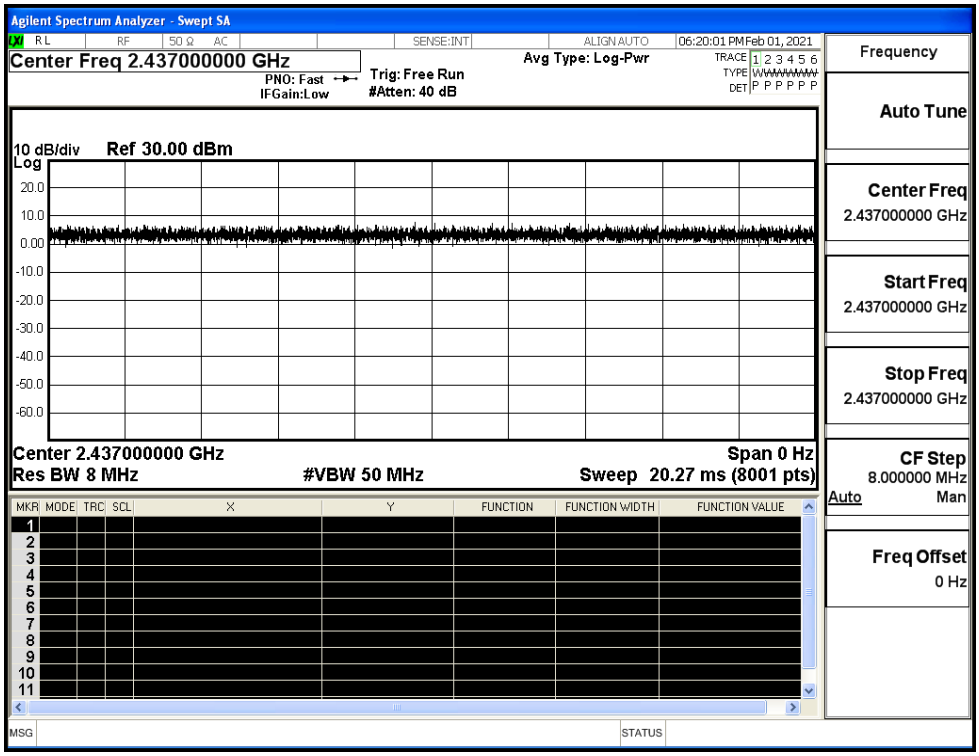
Duty Cycle_11B_2437_Ant1



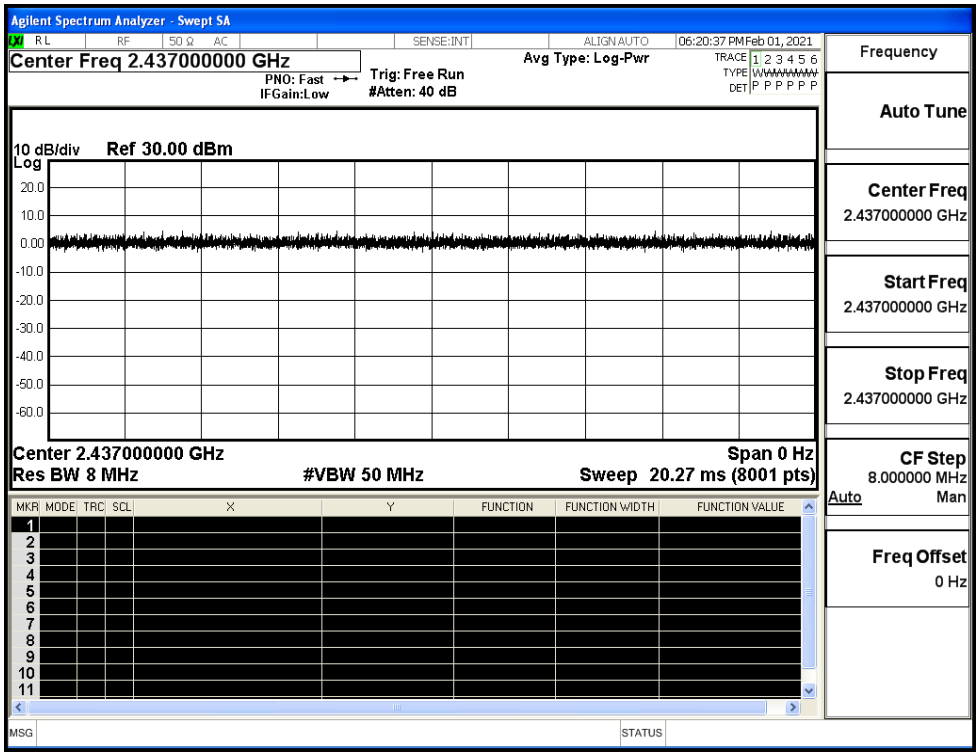
Duty Cycle_11G_2437_Ant1



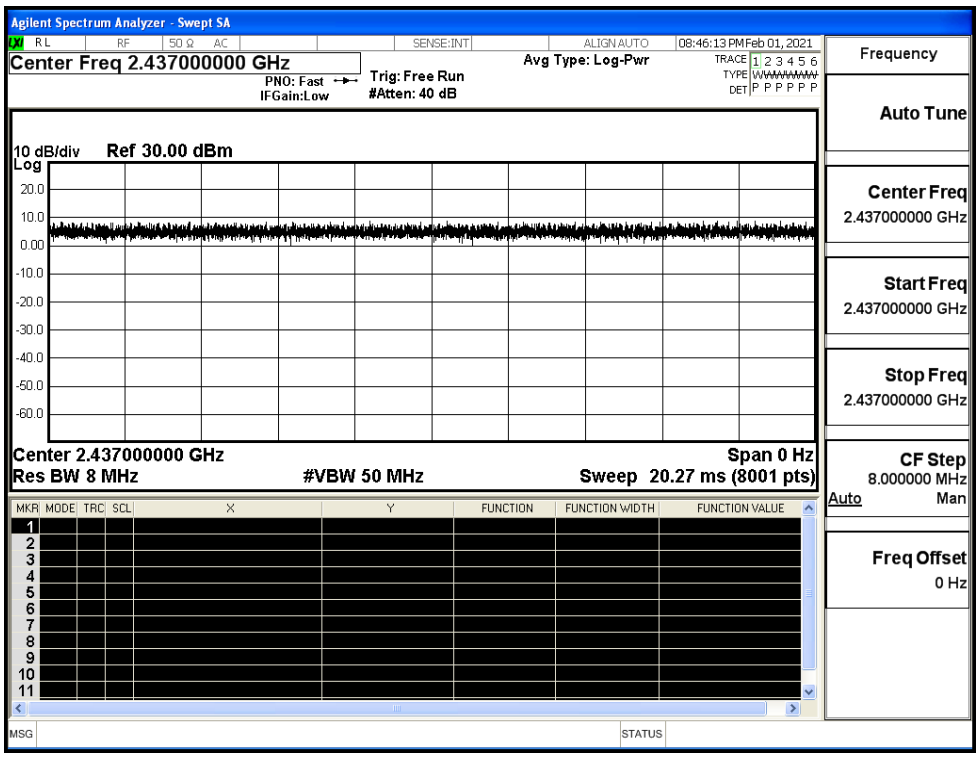
Duty Cycle_11N20SISO_2437_Ant1



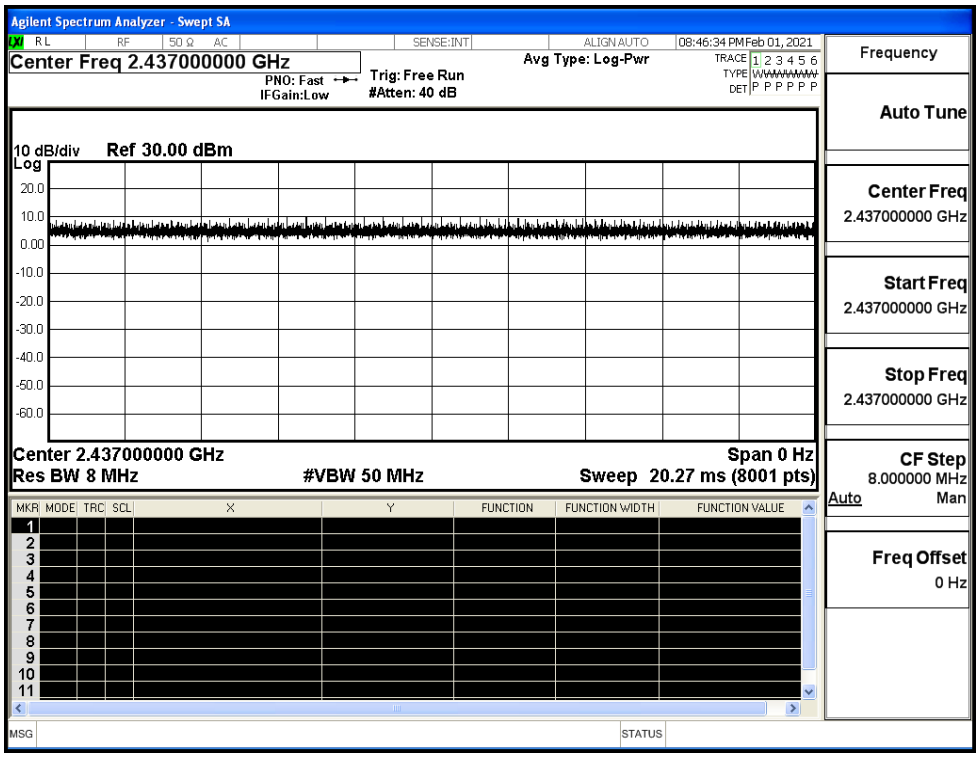
Duty Cycle_11N40SISO_2437_Ant1



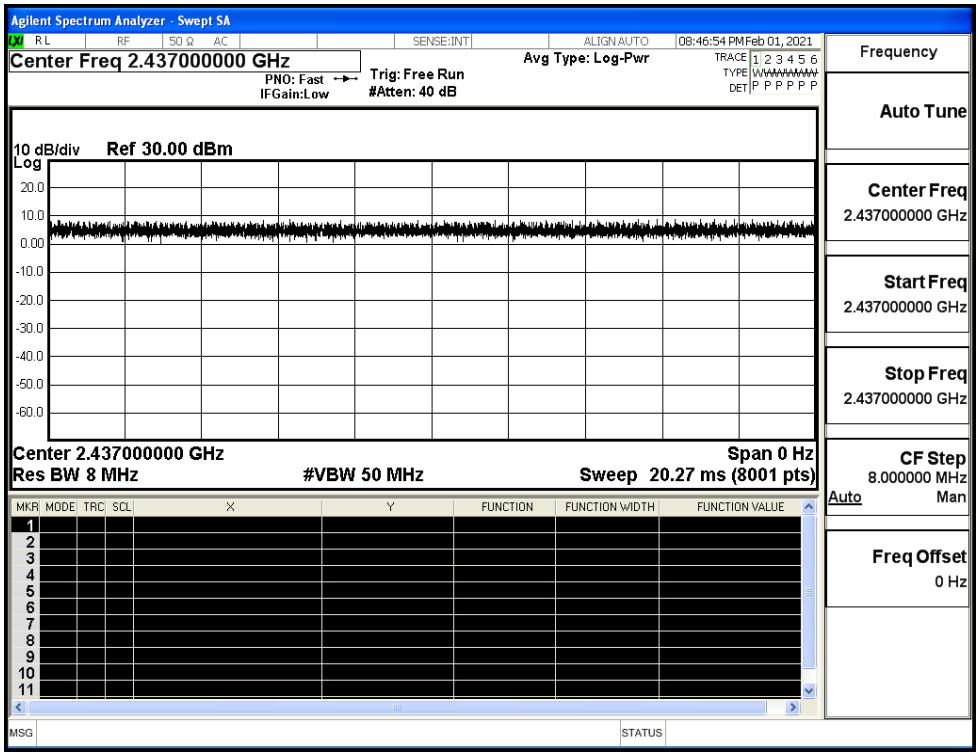
Duty Cycle_11B_2437_Ant1



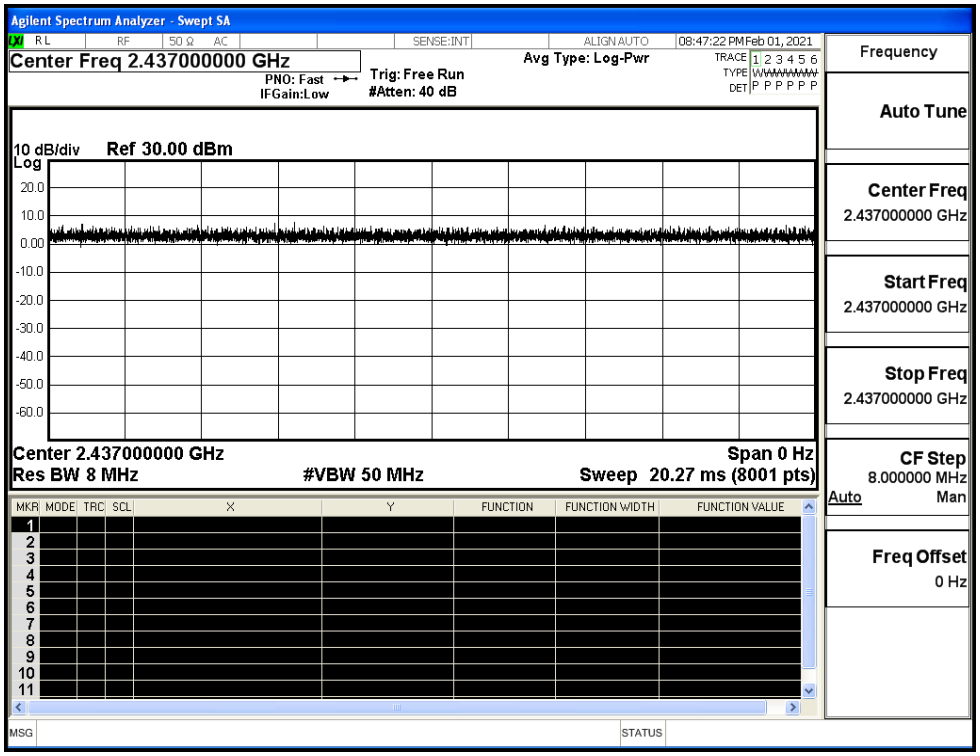
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1



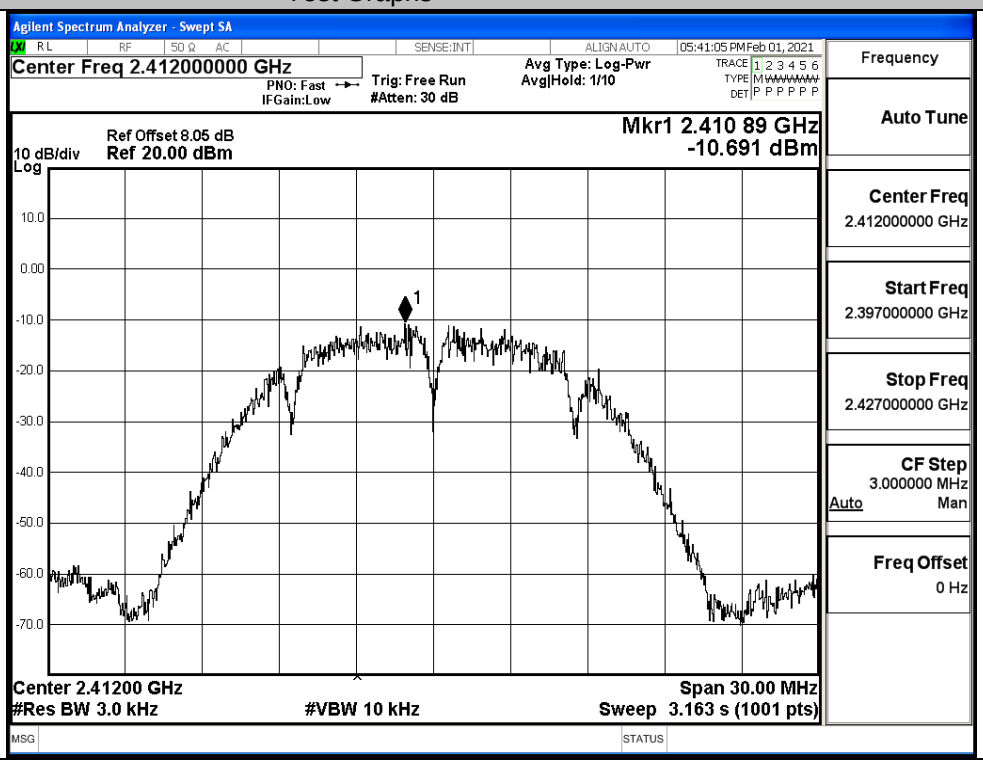
A.2 Maximum Conducted Output Power

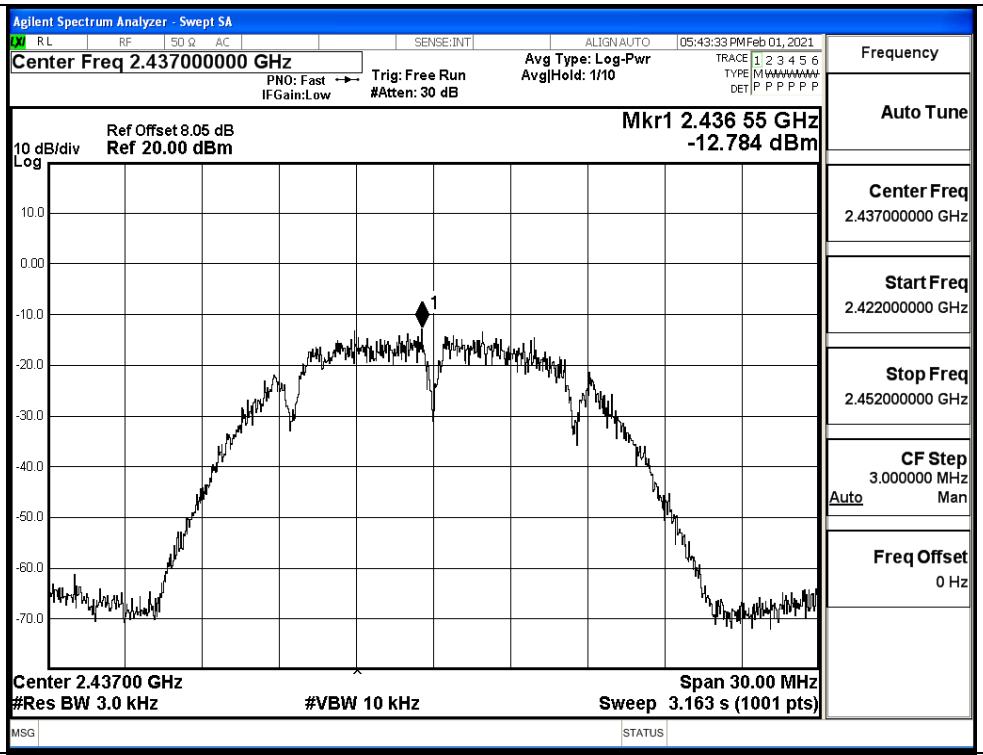
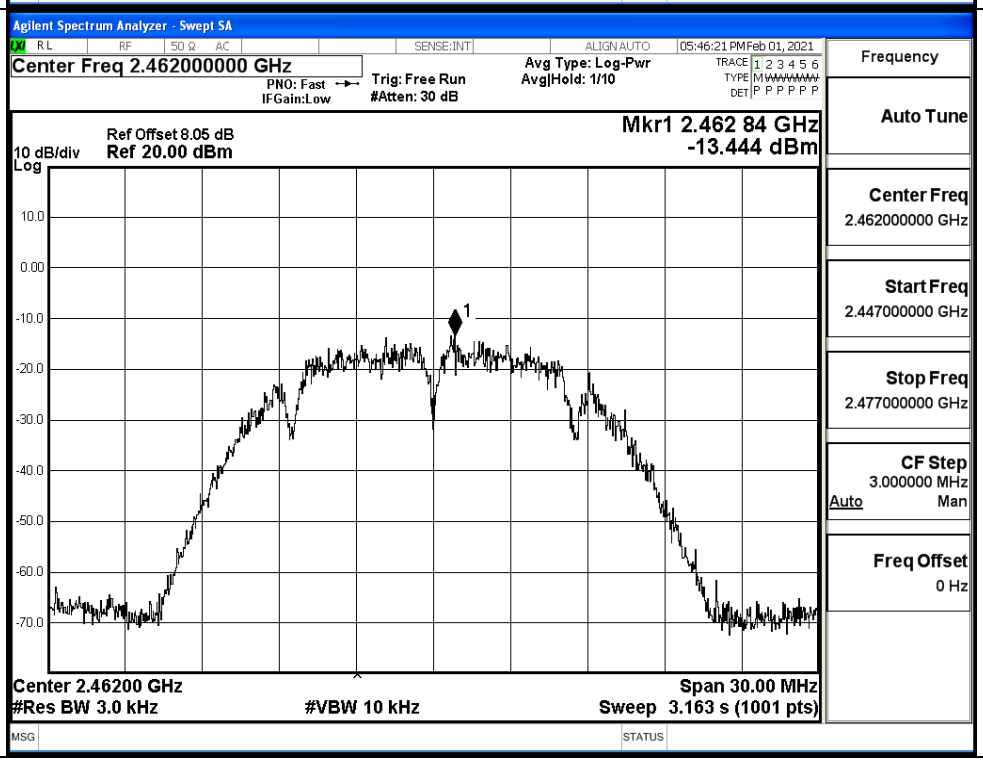
Mode	Channel	Peak Power [dBm]			Limit [dBm]	Verdict
		Ant 0	Ant 1	Sum		
11B	LCH	16.39	14.10	/	30	PASS
	MCH	14.22	14.57	/	30	PASS
	HCH	13.43	15.14	/	30	PASS
11G	LCH	16.40	12.85	/	30	PASS
	MCH	16.53	15.89	/	30	PASS
	HCH	14.05	15.41	/	30	PASS
11N20	LCH	15.90	12.88	17.66	30	PASS
	MCH	14.49	14.68	17.60	30	PASS
	HCH	14.11	14.65	17.40	30	PASS
11N40	LCH	14.93	12.78	17.00	30	PASS
	MCH	14.16	13.87	17.03	30	PASS
	HCH	13.97	14.31	17.15	30	PASS

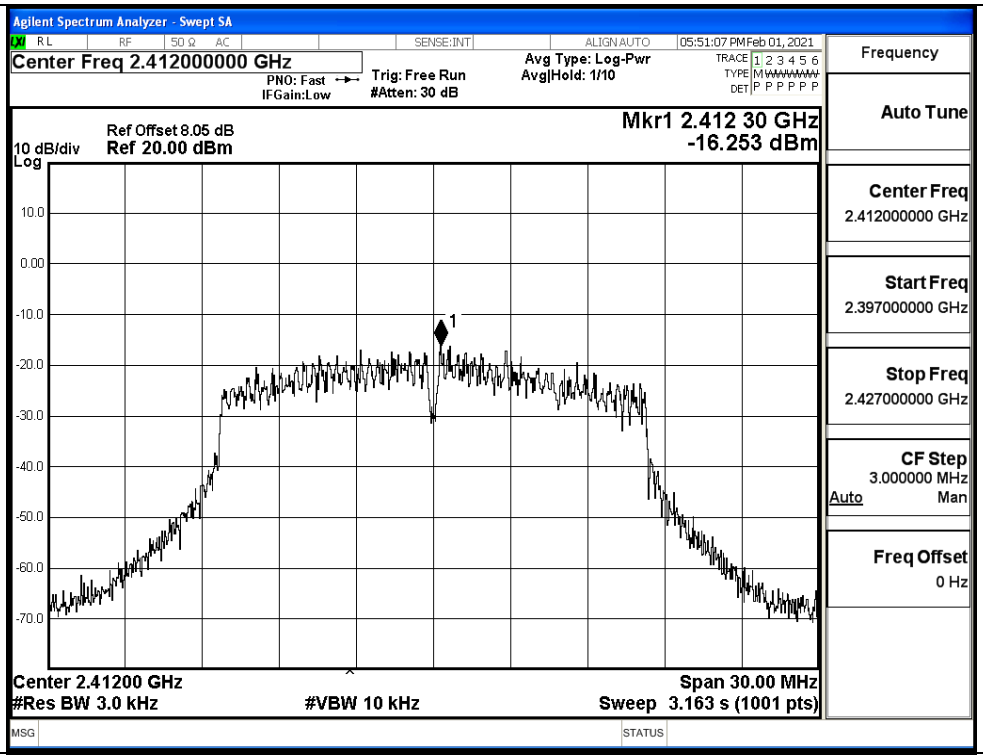
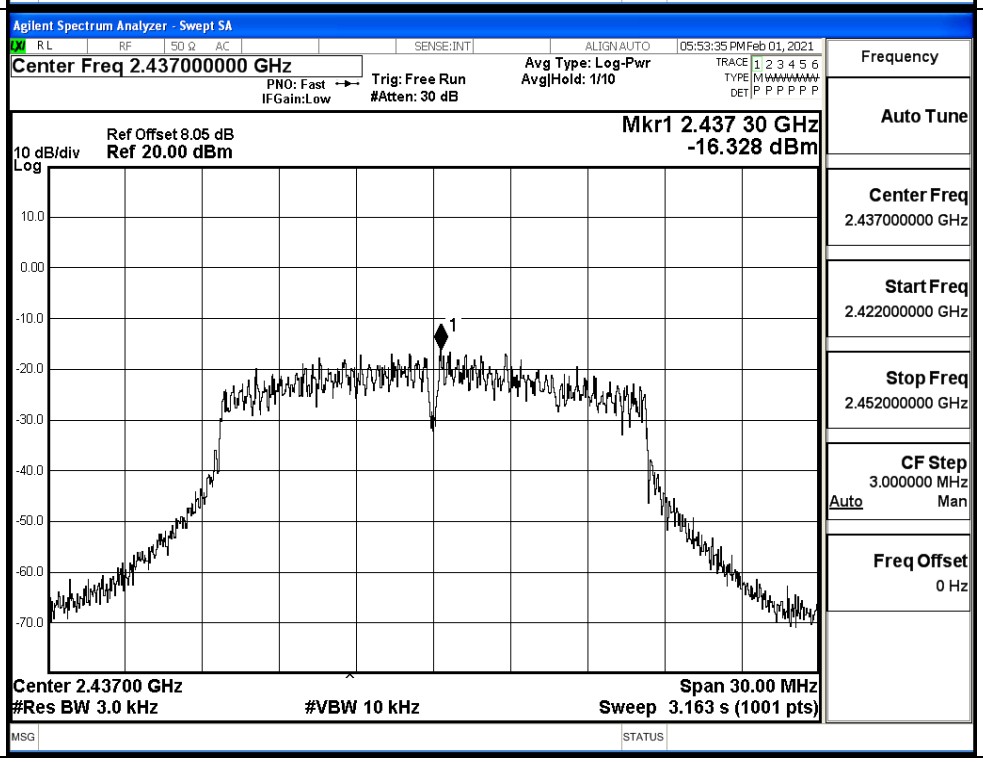
A.3 Maximum Power Spectral Density

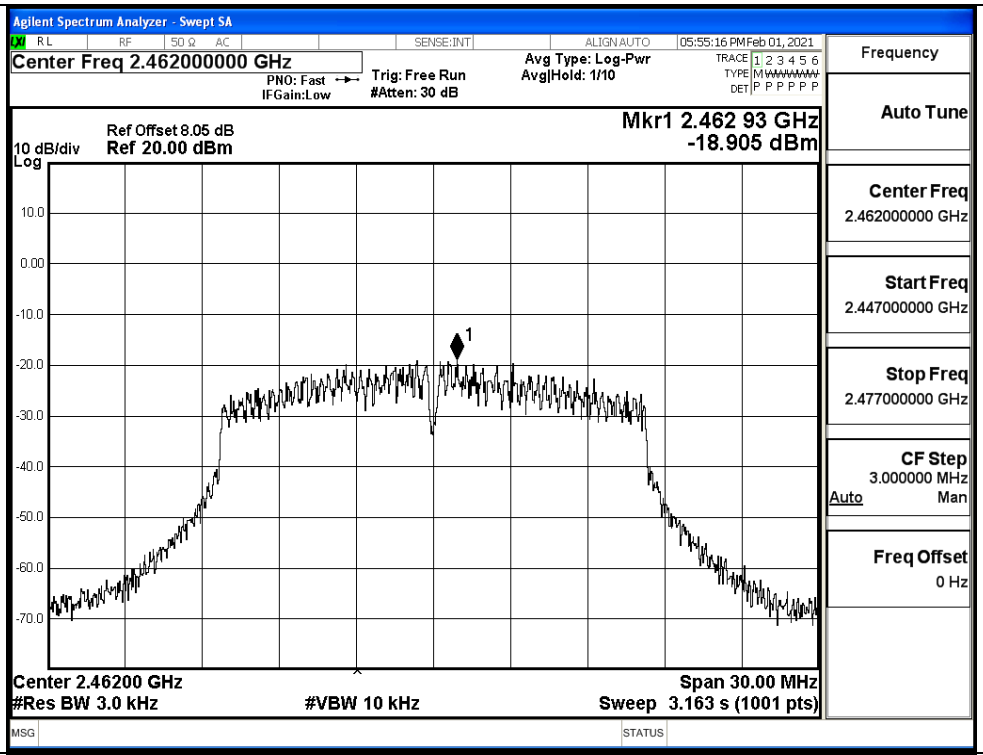
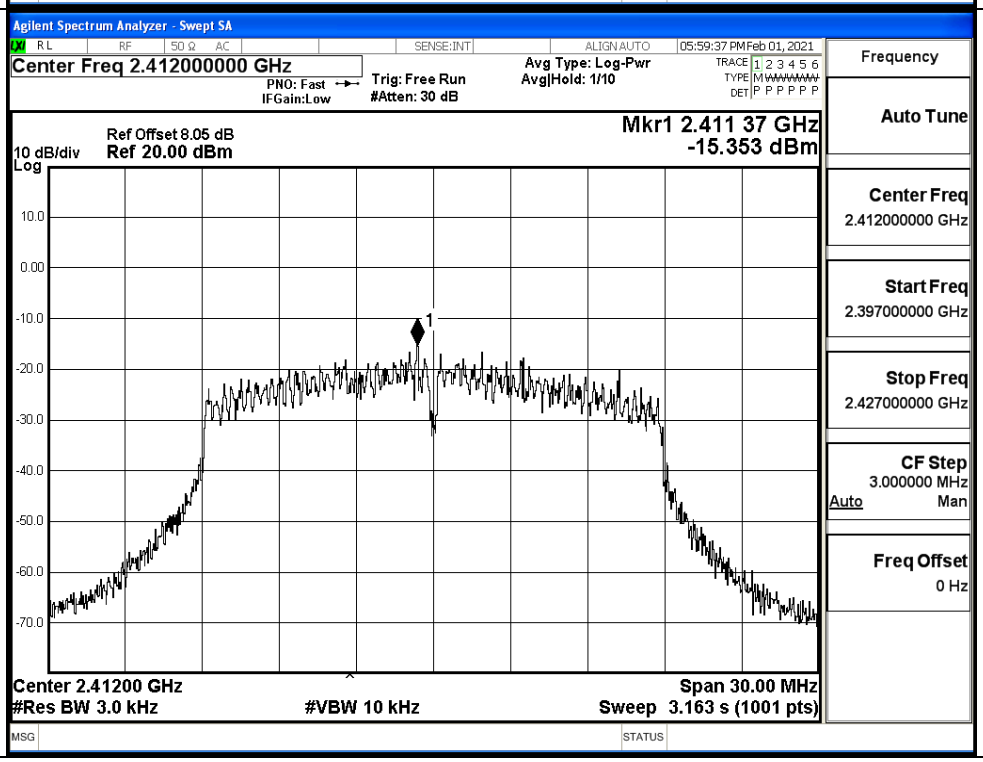
Mode	Channel	Meas.Level [dBm/3KHz]			Limit [dBm/3KHz]	Verdict
		Ant 0	Ant 1	Sum		
11B	LCH	-10.691	-17.122	/	8	PASS
	MCH	-12.784	-18.345	/	8	PASS
	HCH	-13.444	-18.087	/	8	PASS
11G	LCH	-16.253	-22.146	/	8	PASS
	MCH	-16.328	-19.085	/	8	PASS
	HCH	-18.905	-18.776	/	8	PASS
11N20	LCH	-15.353	-22.547	-14.59	7.5	PASS
	MCH	-17.087	-19.658	-15.17	7.5	PASS
	HCH	-17.604	-19.220	-15.33	7.5	PASS
11N40	LCH	-19.440	-22.524	-17.70	7.5	PASS
	MCH	-19.621	-20.246	-16.91	7.5	PASS
	HCH	-20.270	-18.769	-16.44	7.5	PASS

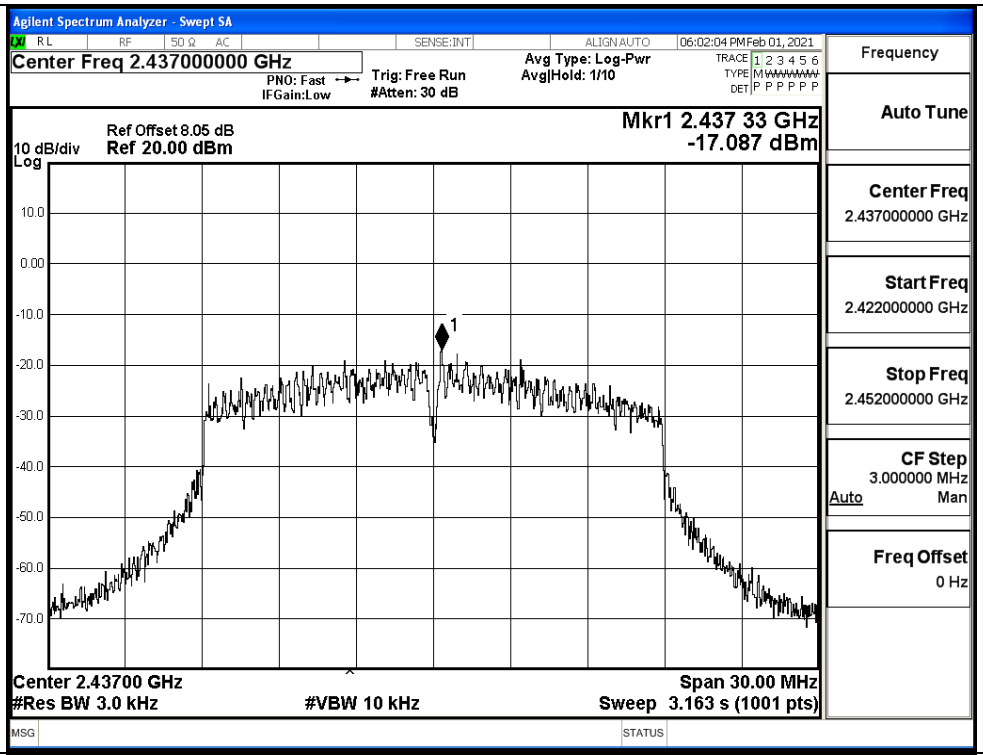
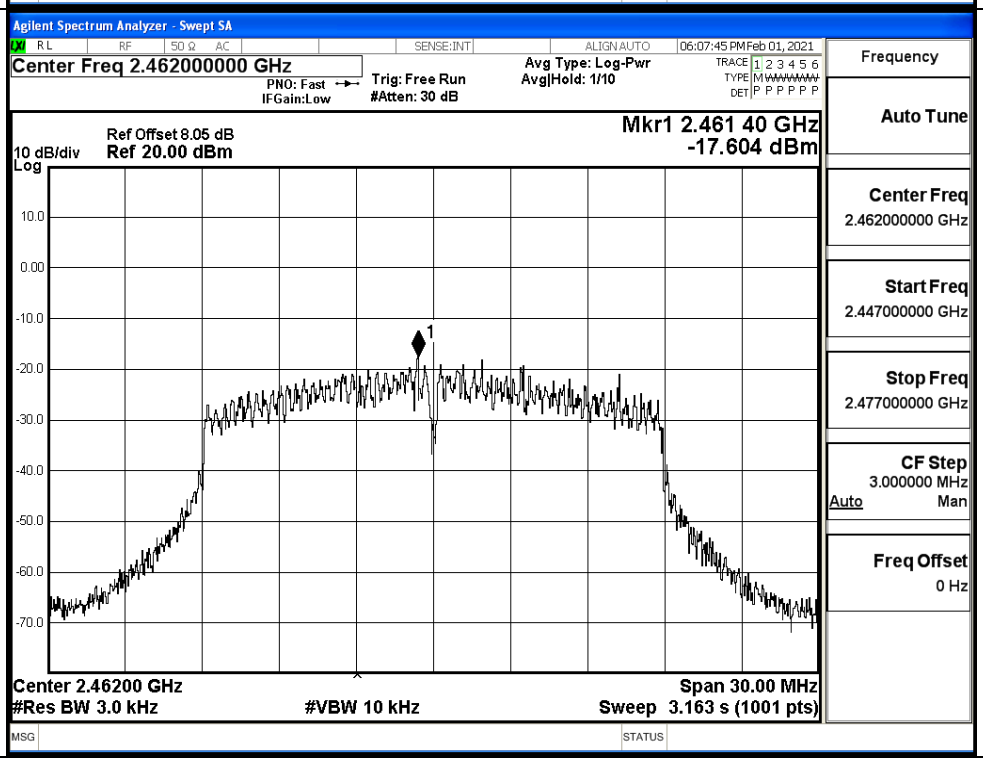
ANT0:

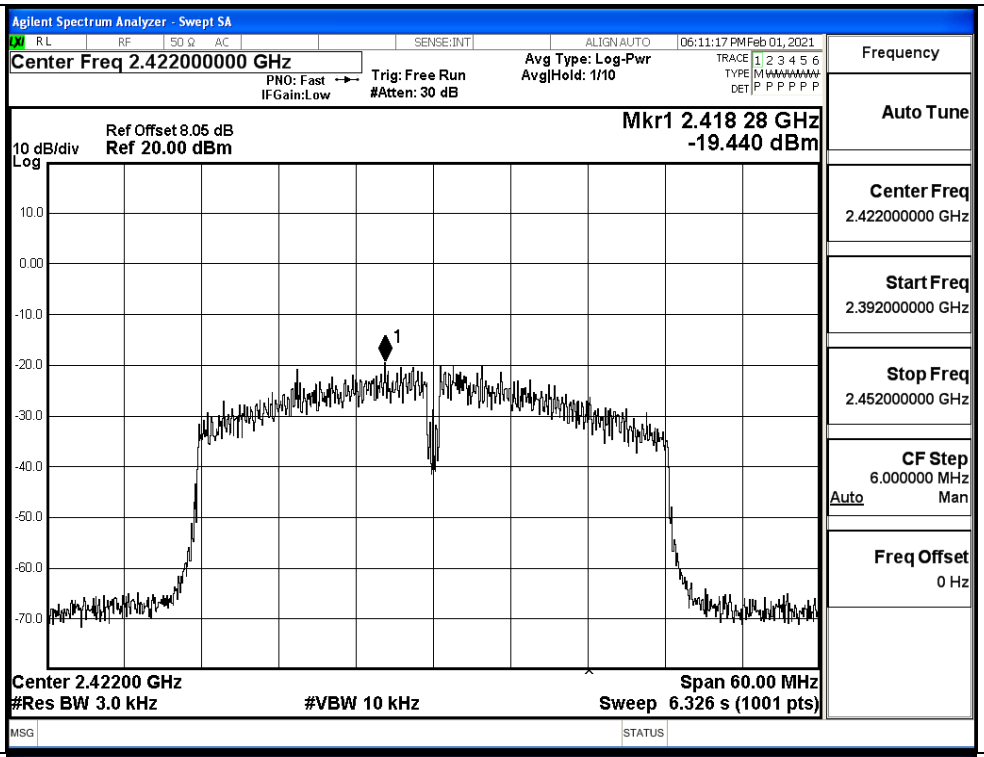
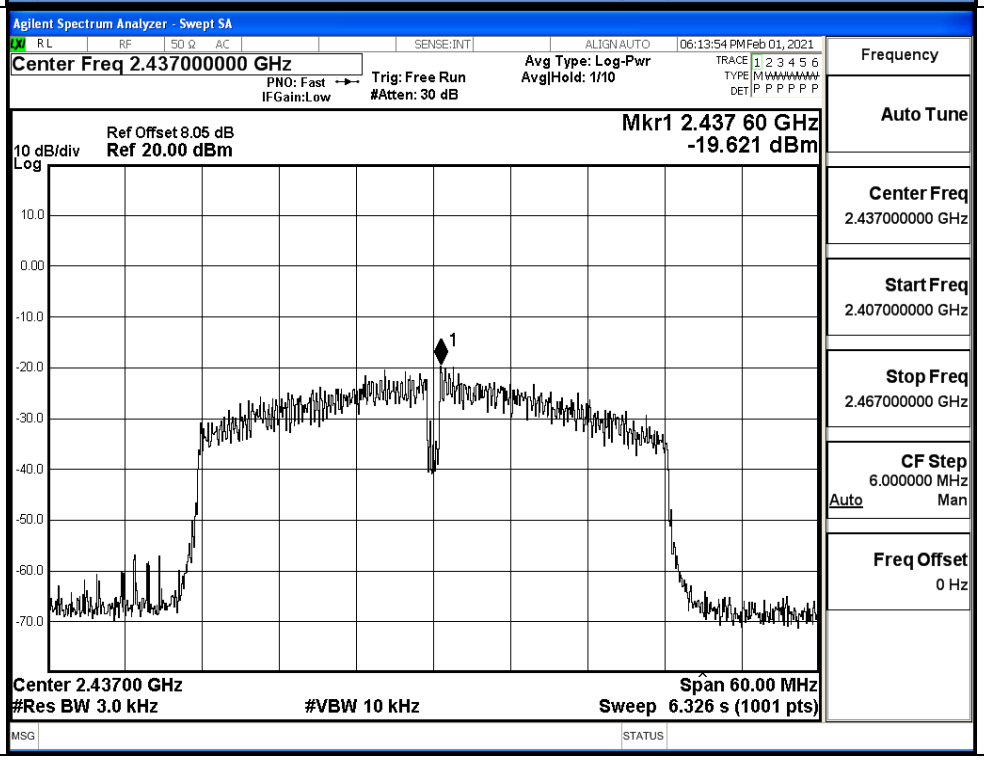
Test Graphs	
11B/LCH	

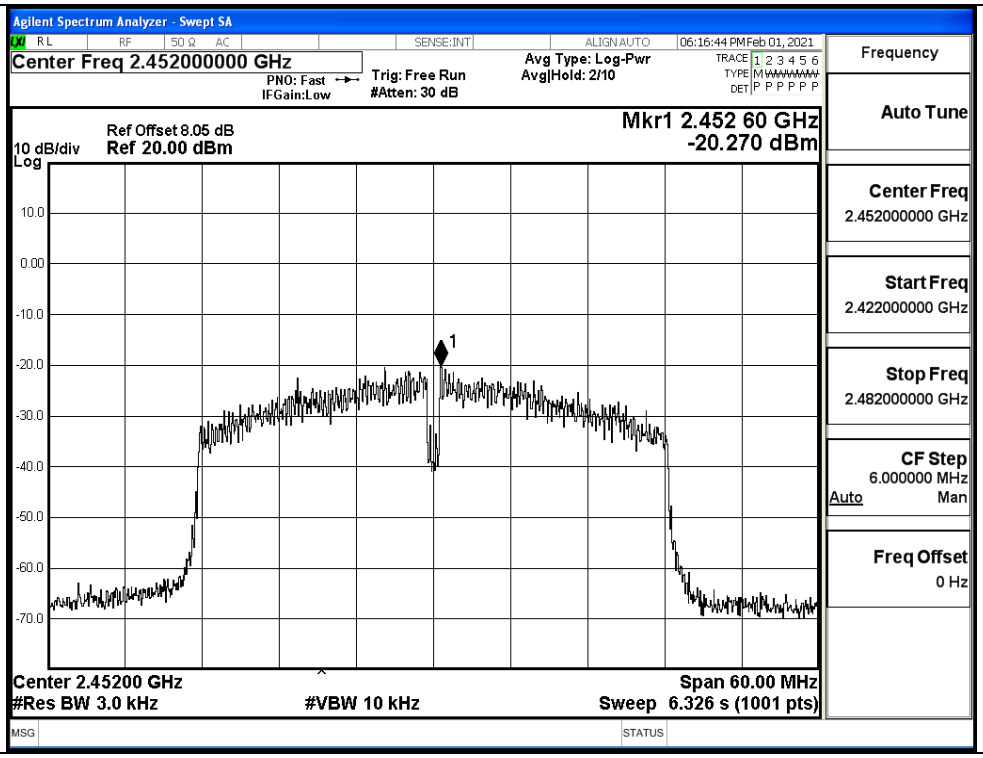
11B/MCH		
11B/HCH		

11G/LCH		
11G/MCH		

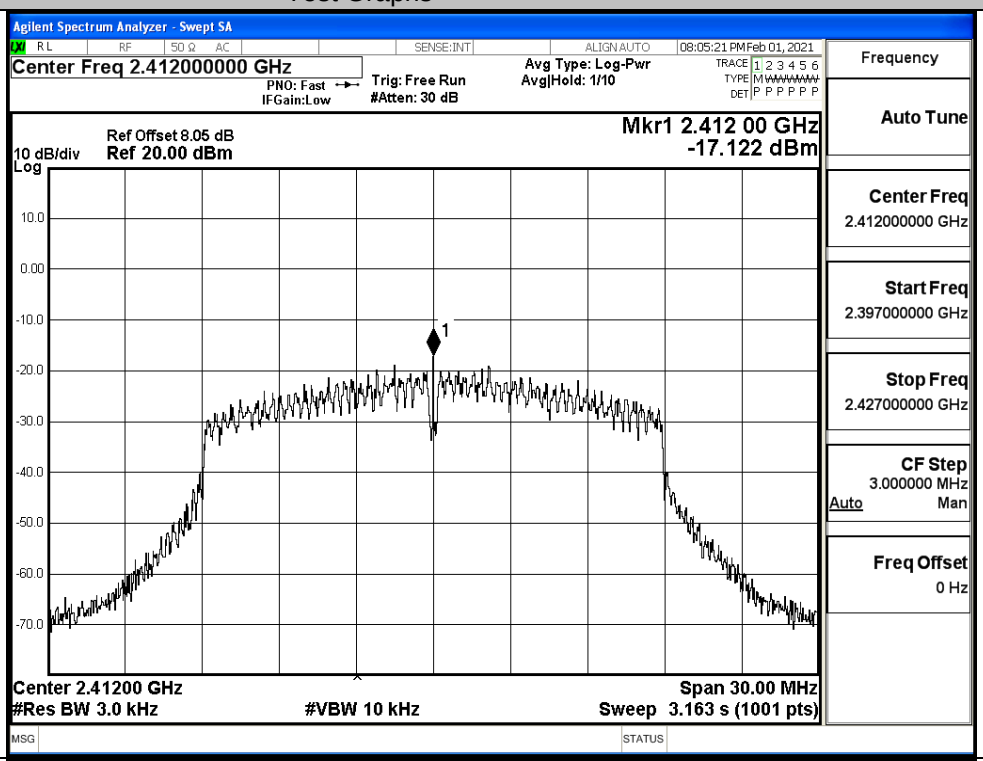
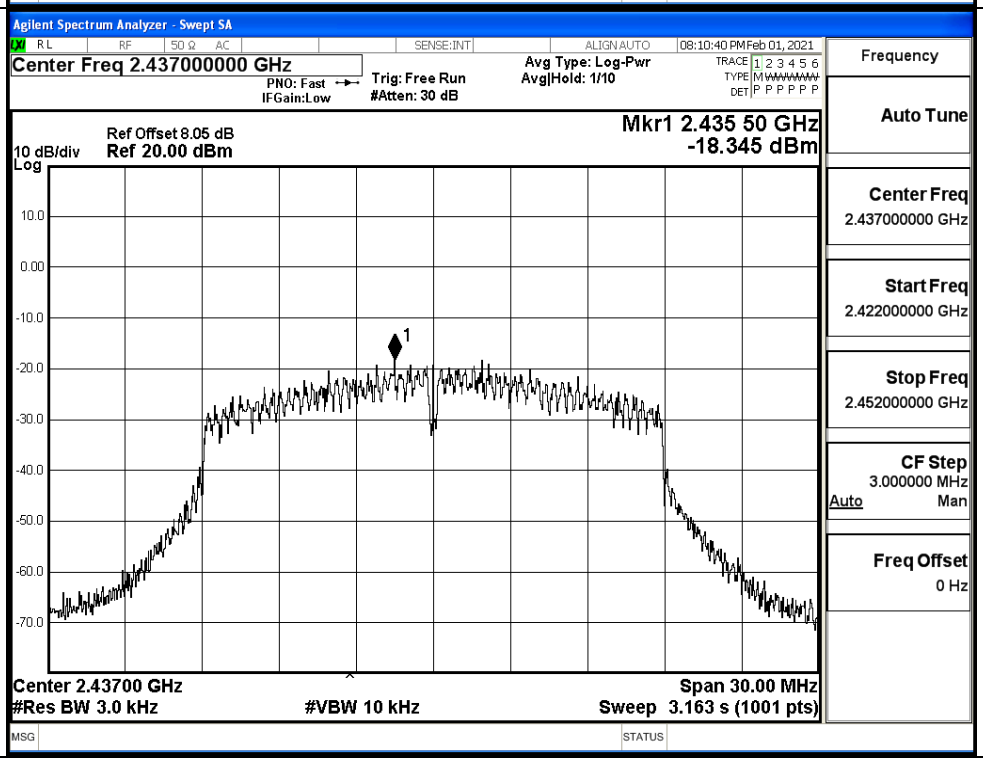
11G/HCH		
11N20SISO/LCH		

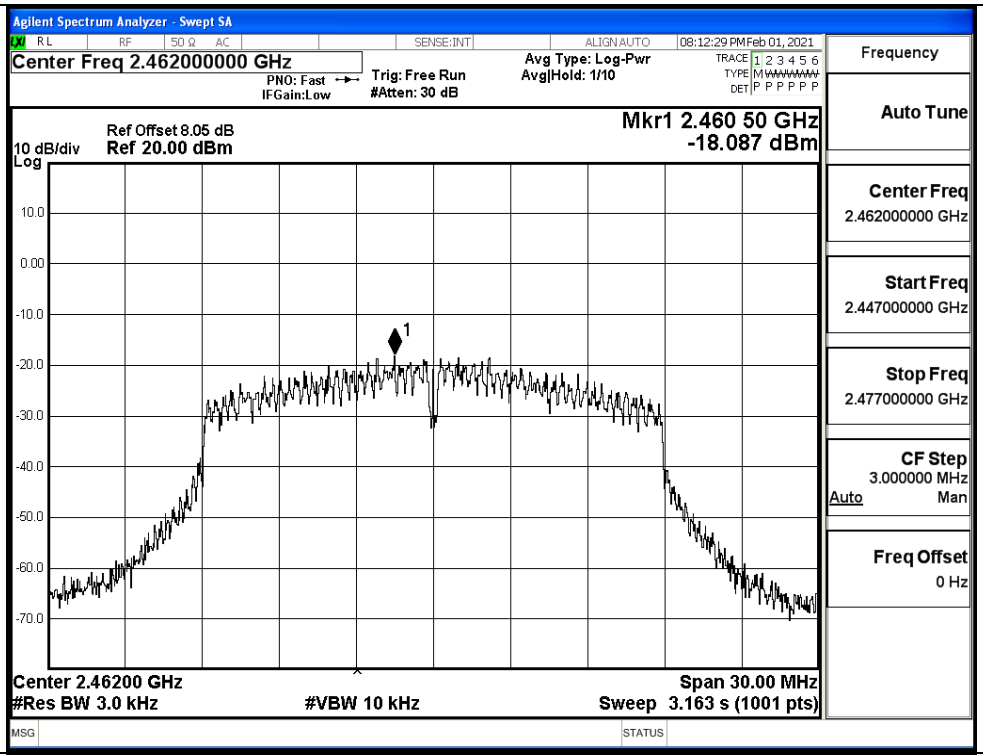
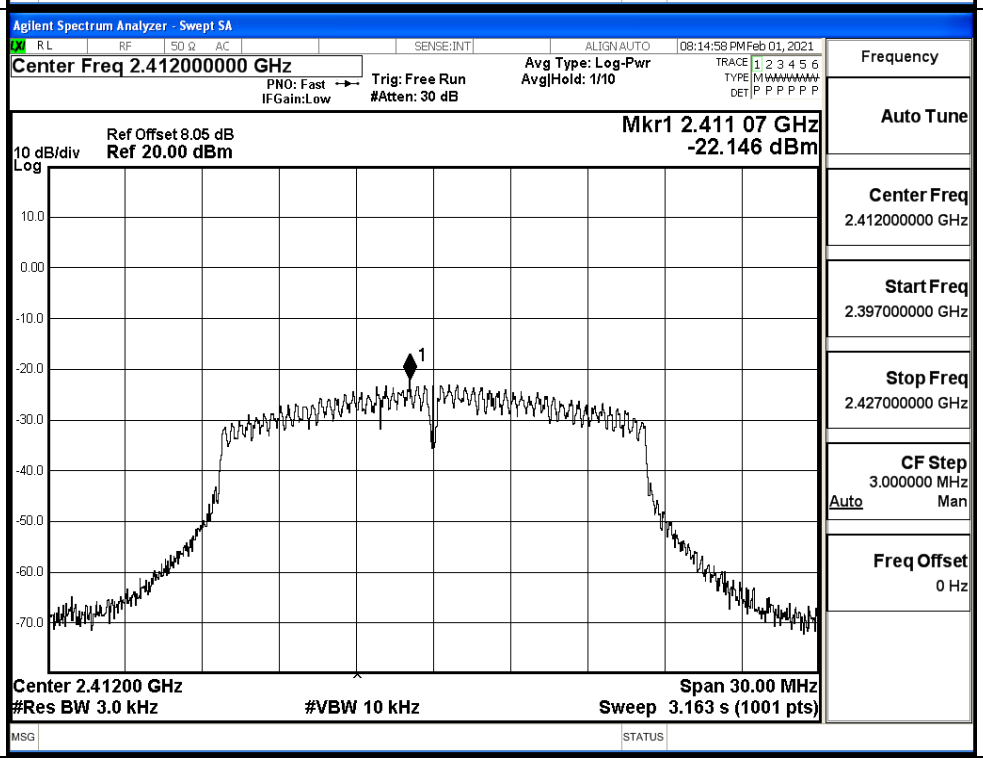
11N20SISO/MCH		
11N20SISO/HCH		

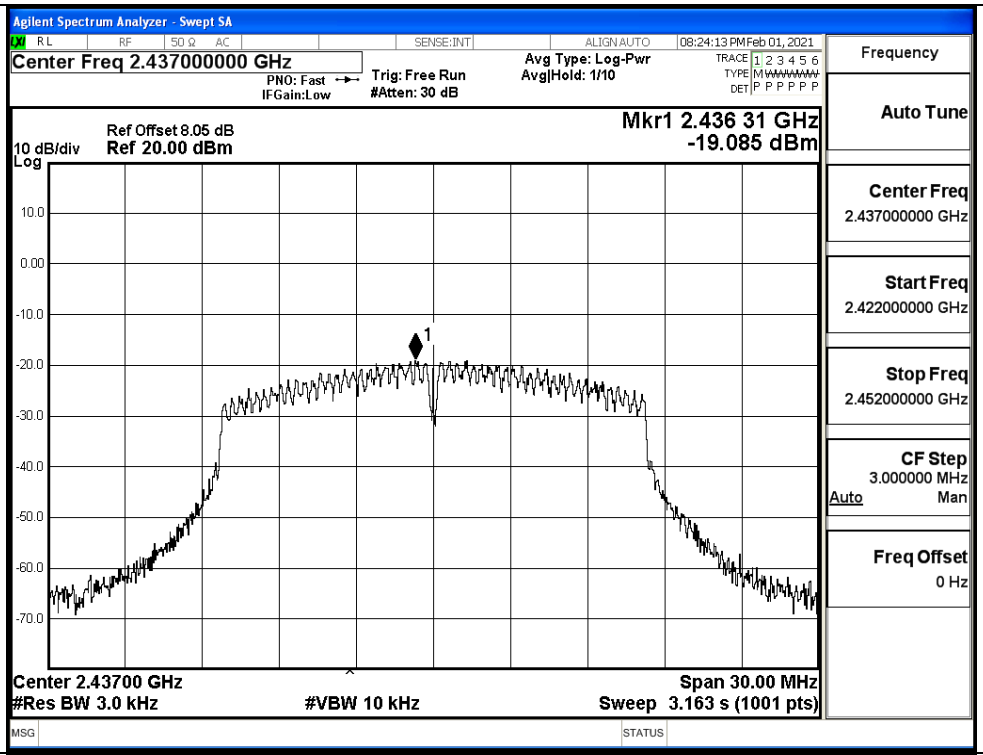
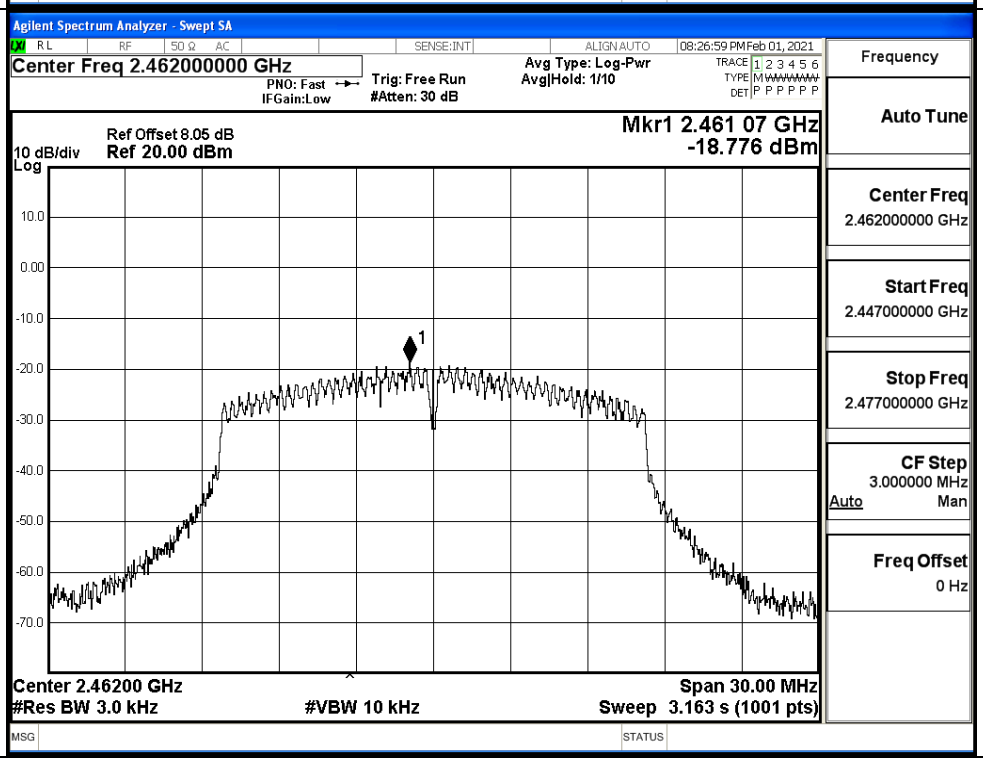
11N40SISO/LCH		
11N40SISO/MCH		

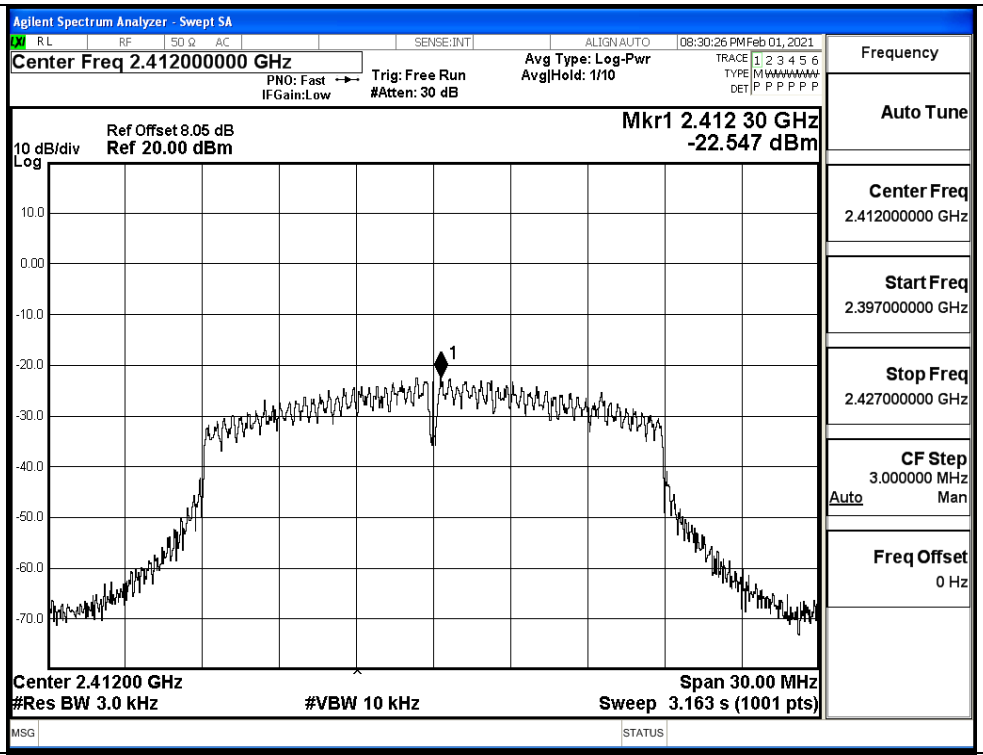
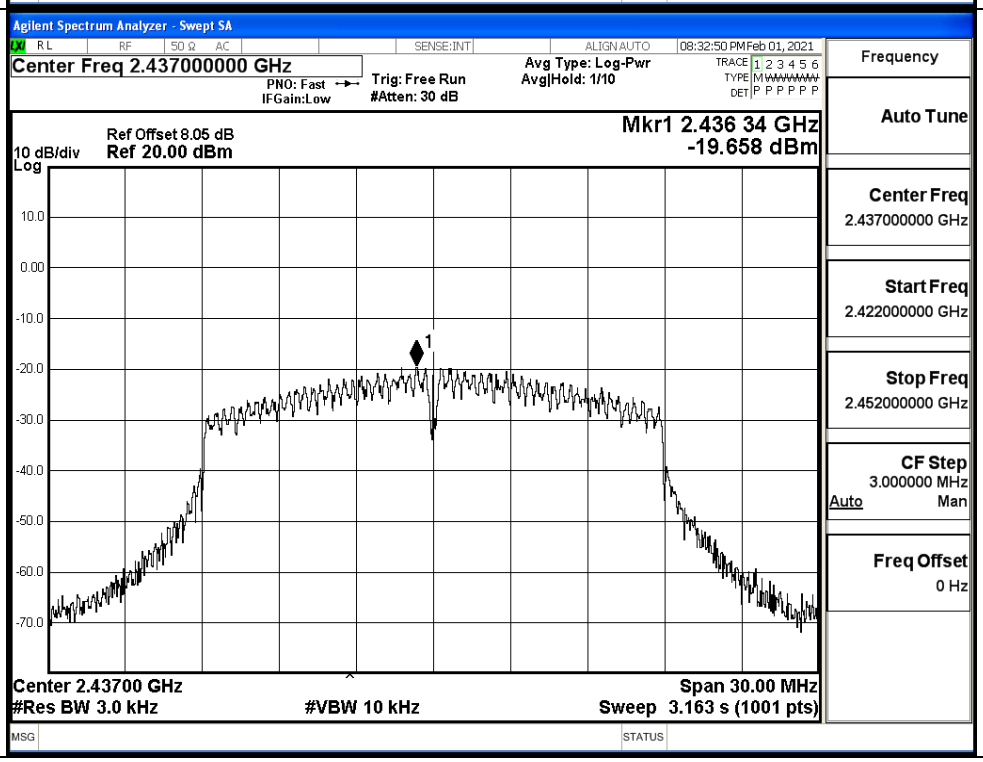
11N40SISO/HCH		

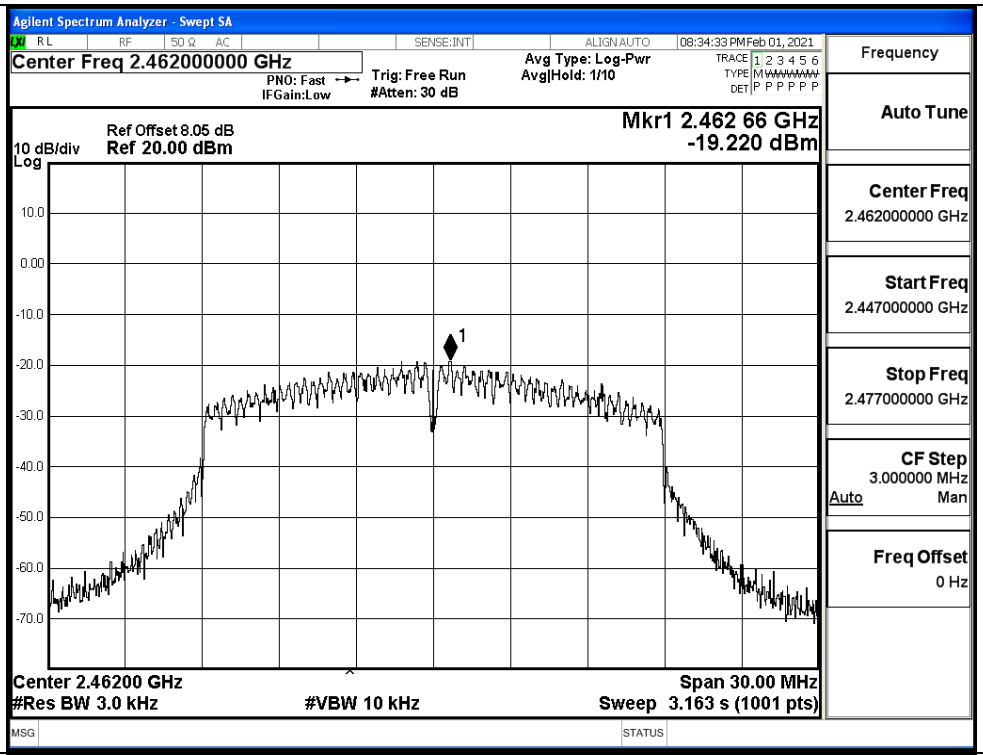
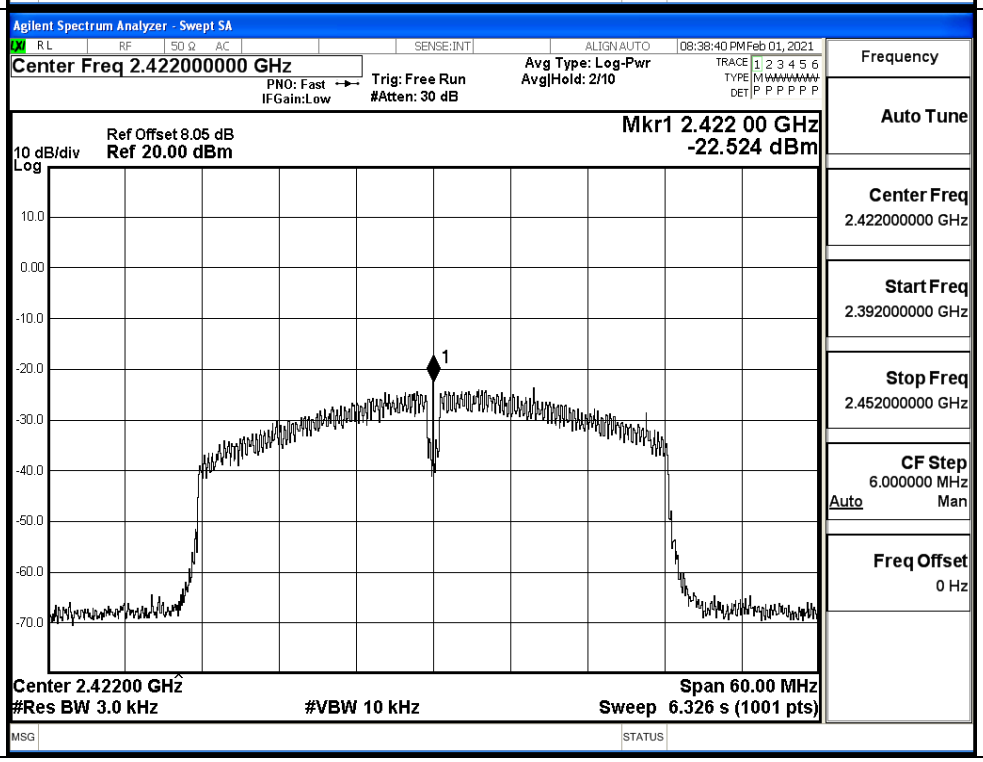
ANT1:

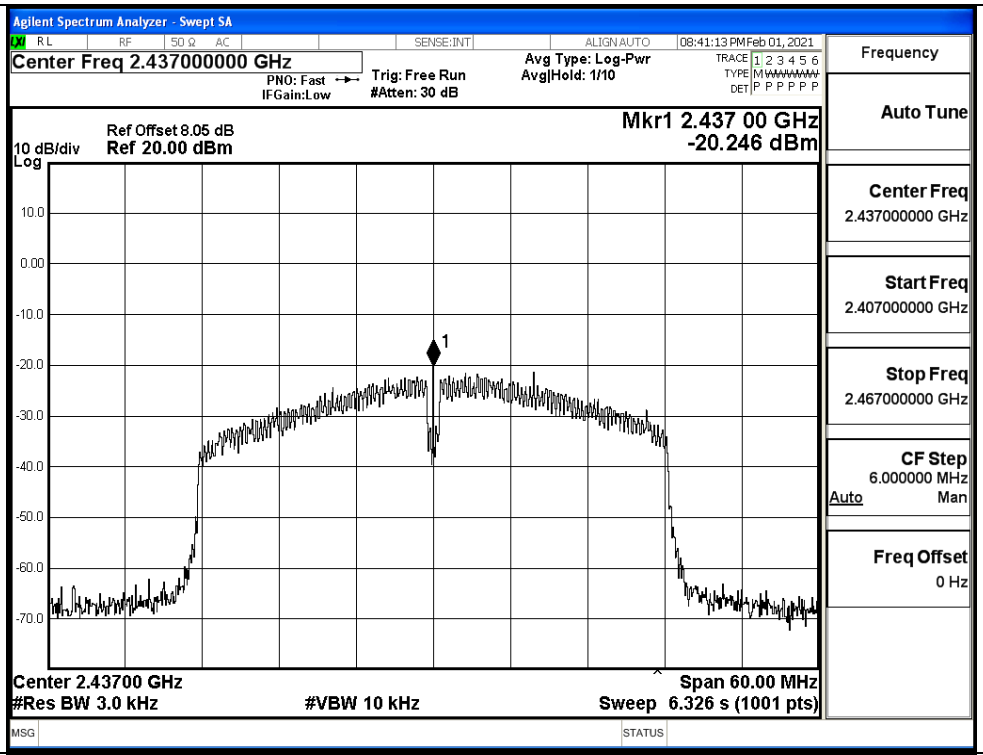
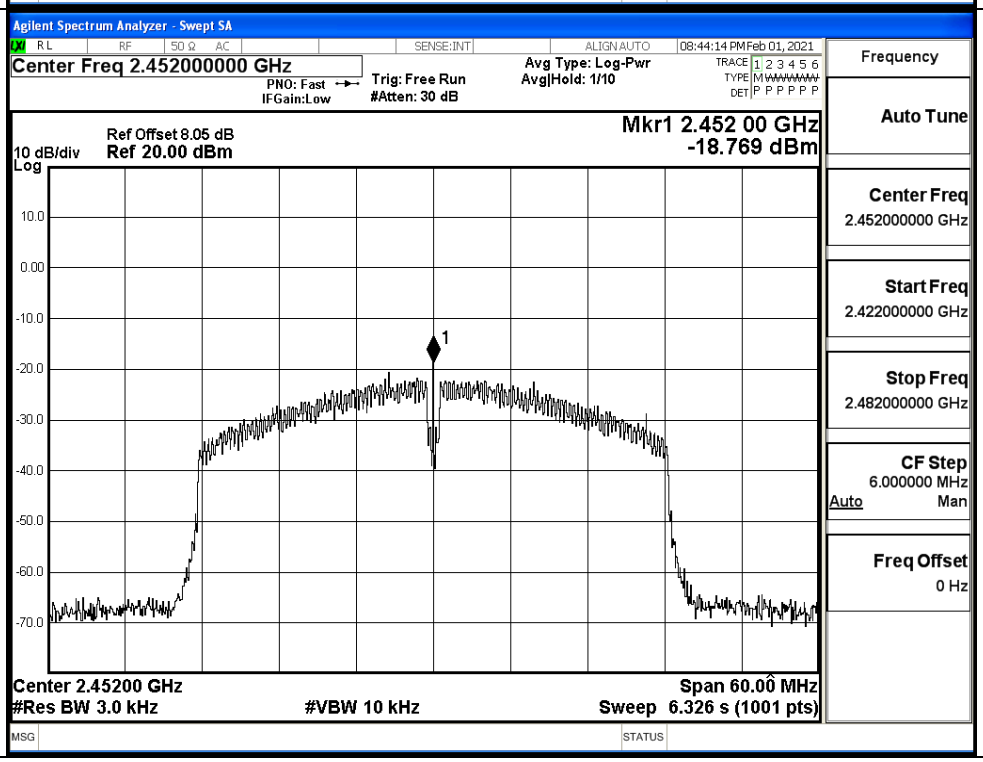
Test Graphs		
11B/LCH		
11B/MCH		

11B/HCH		
11G/LCH		

11G/MCH		
11G/HCH		

11N20SISO/LCH		
11N20SISO/MCH		

11N20SISO/HCH		
11N40SISO/LCH		

11N40SISO/MCH		
11N40SISO/HCH		

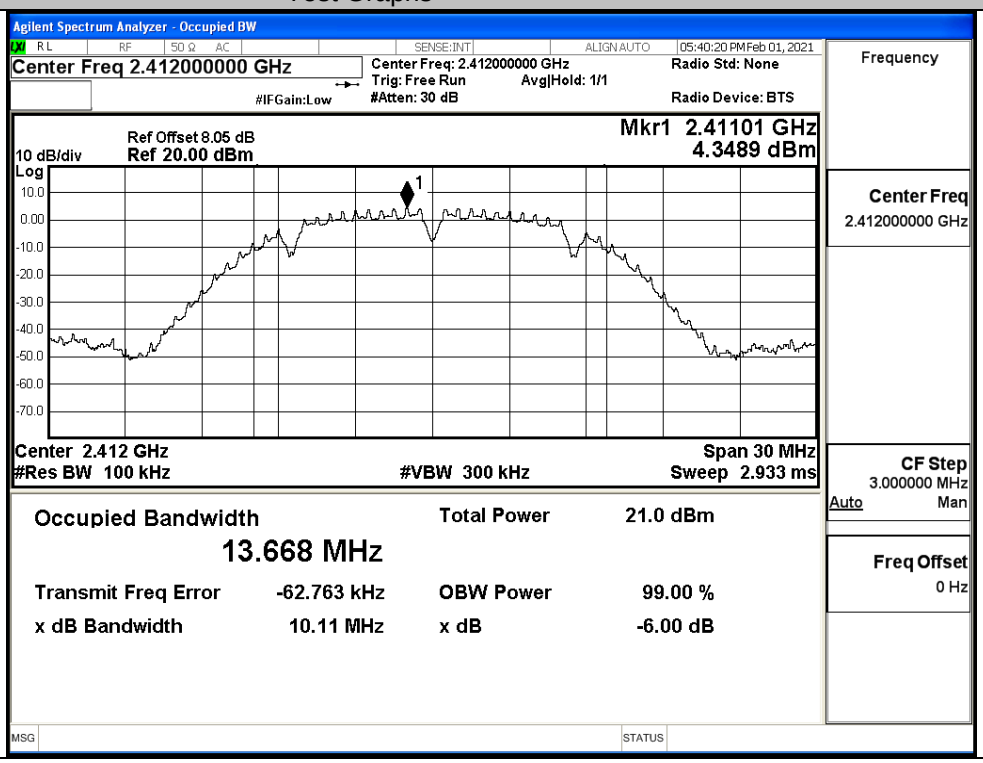
A.4 6dB Bandwidth

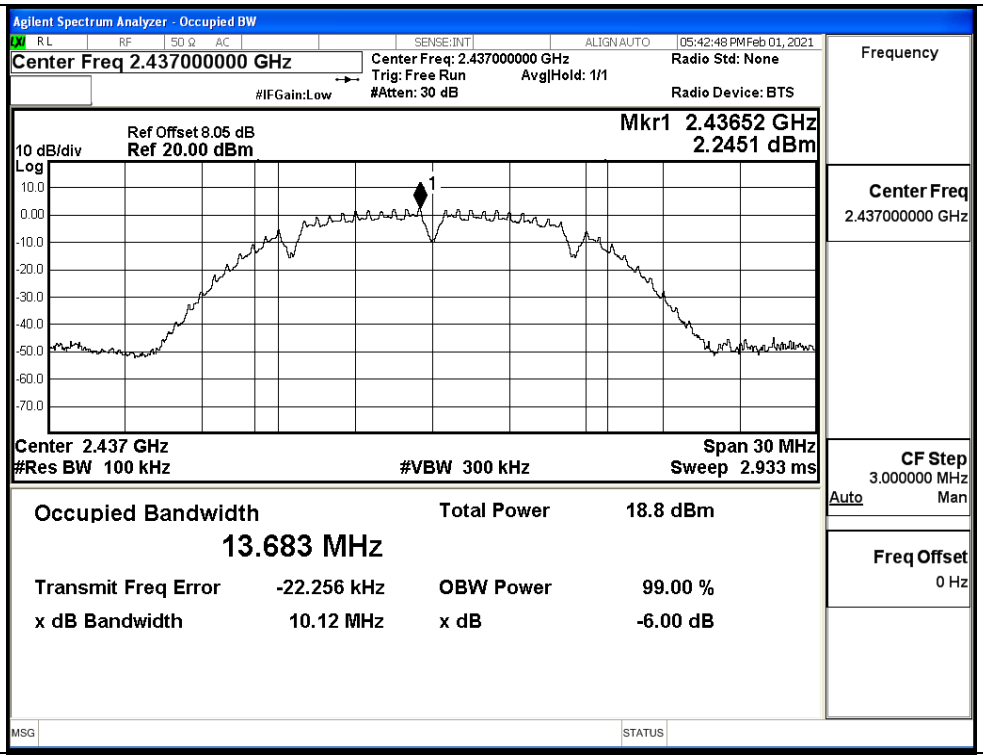
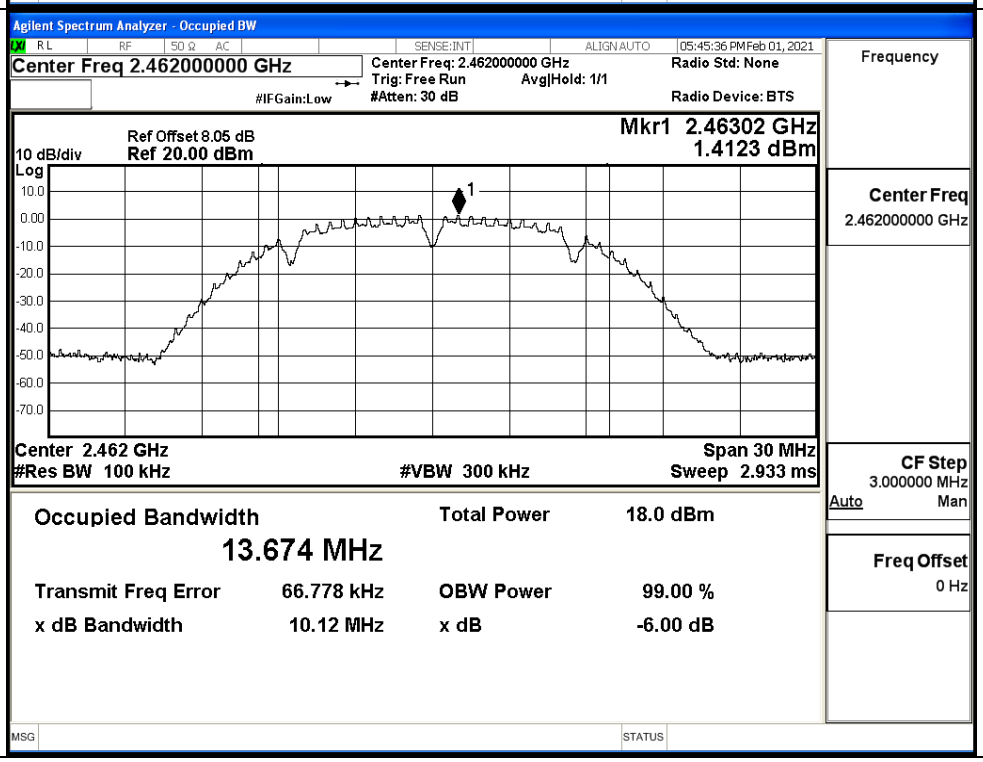
ANT 0

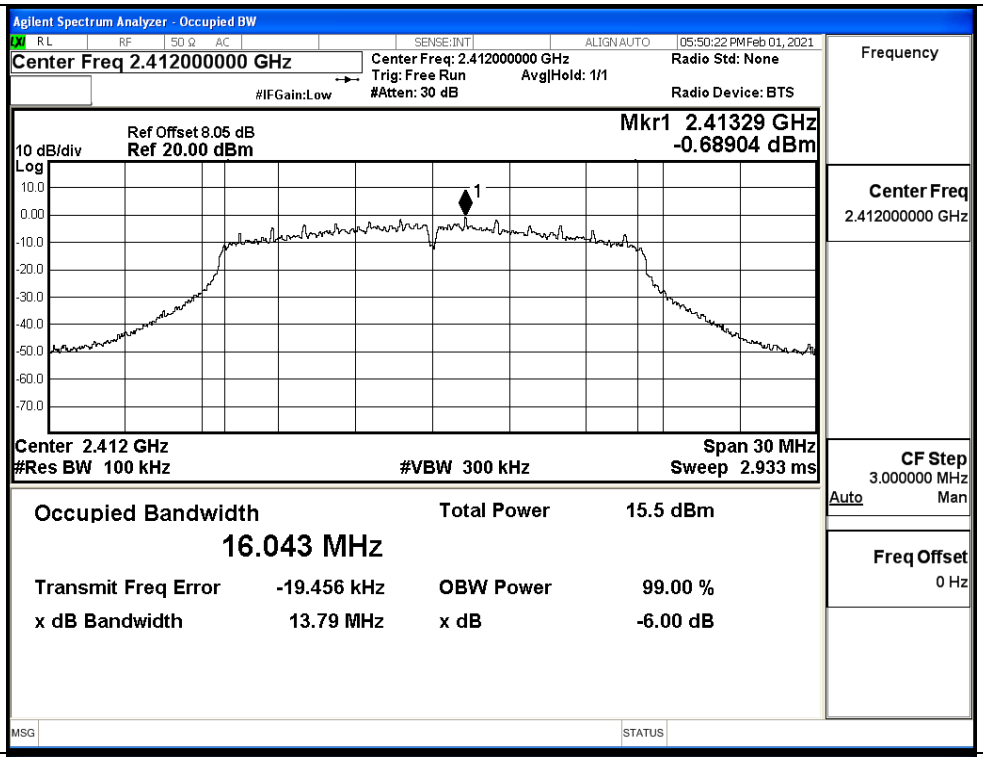
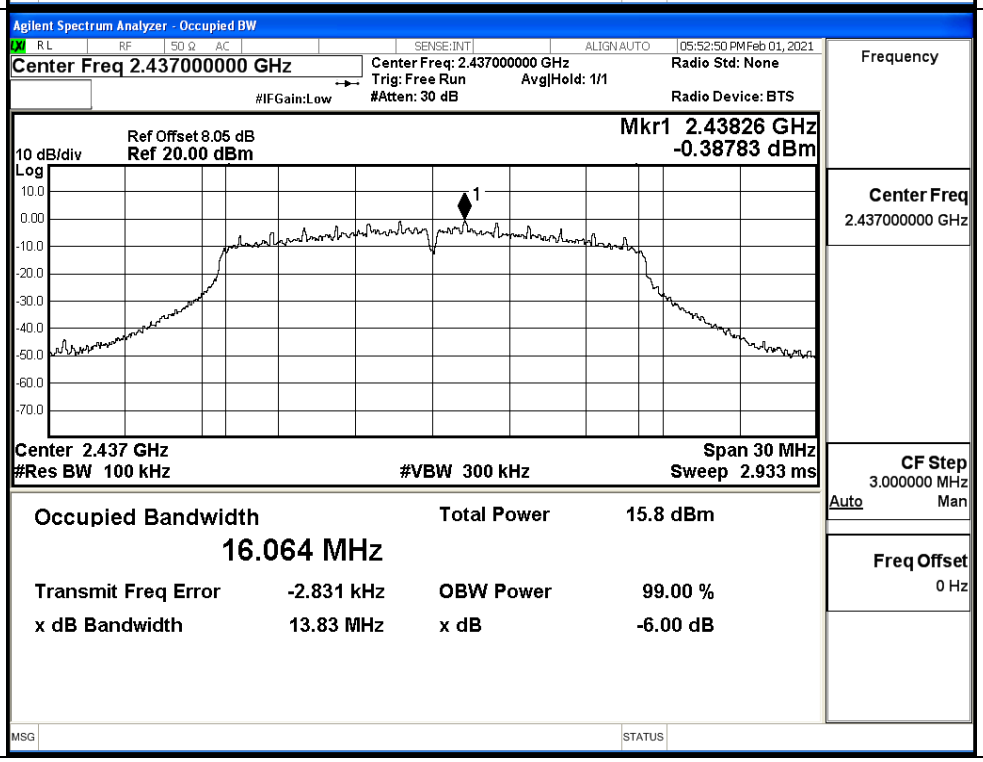
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	10.11	⩾0.5	PASS
	MCH	10.12	⩾0.5	PASS
	HCH	10.12	⩾0.5	PASS
11G	LCH	13.79	⩾0.5	PASS
	MCH	13.83	⩾0.5	PASS
	HCH	13.85	⩾0.5	PASS
11N20SISO	LCH	13.83	⩾0.5	PASS
	MCH	15.04	⩾0.5	PASS
	HCH	13.82	⩾0.5	PASS
11N40SISO	LCH	23.89	⩾0.5	PASS
	MCH	23.90	⩾0.5	PASS
	HCH	25.05	⩾0.5	PASS

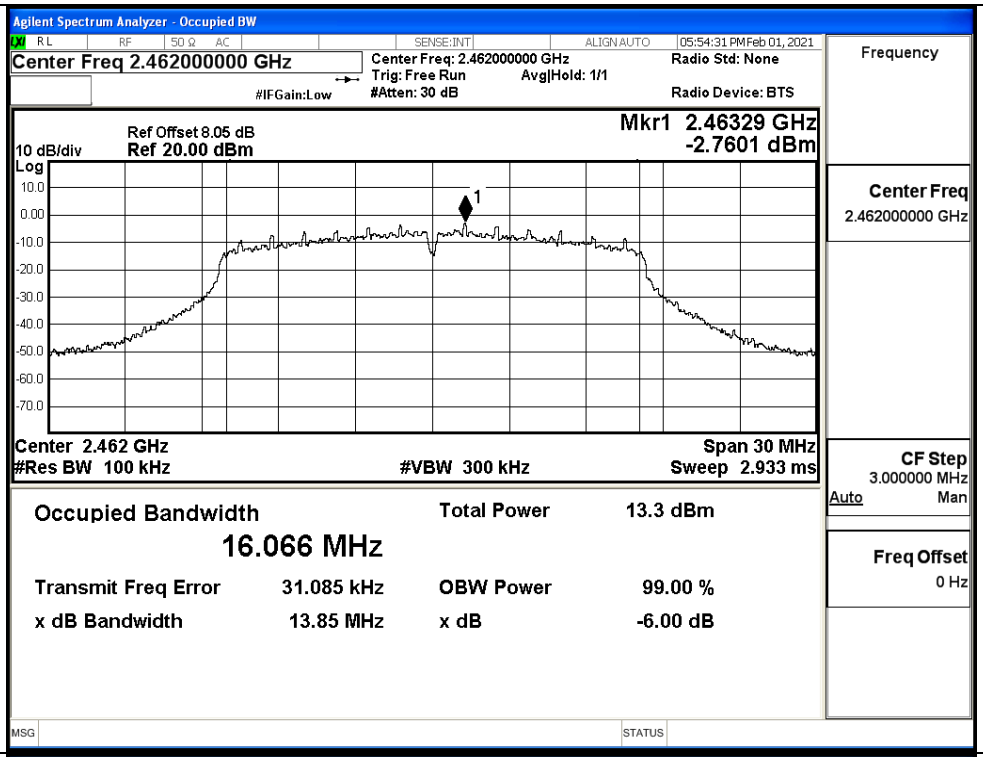
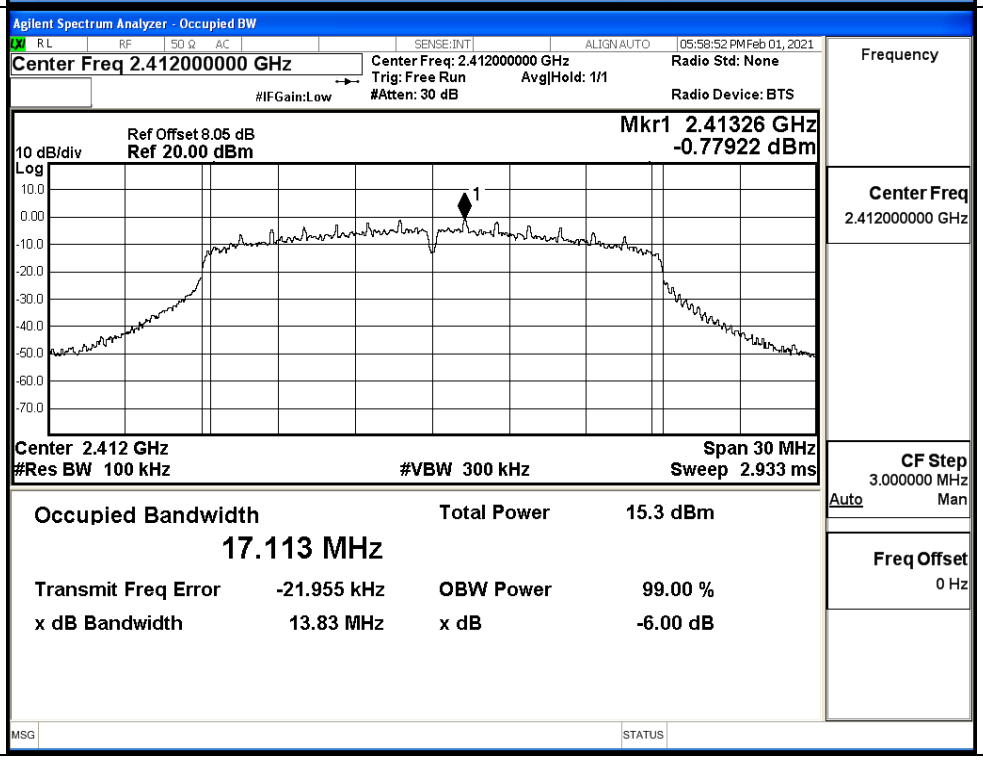
Test Graphs

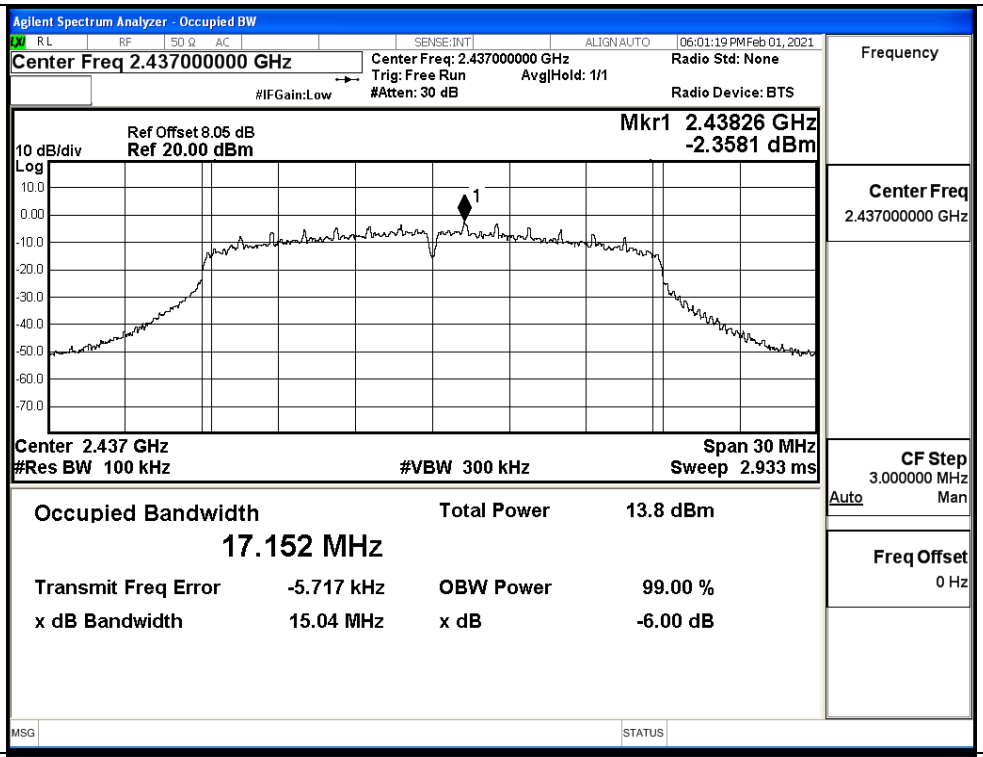
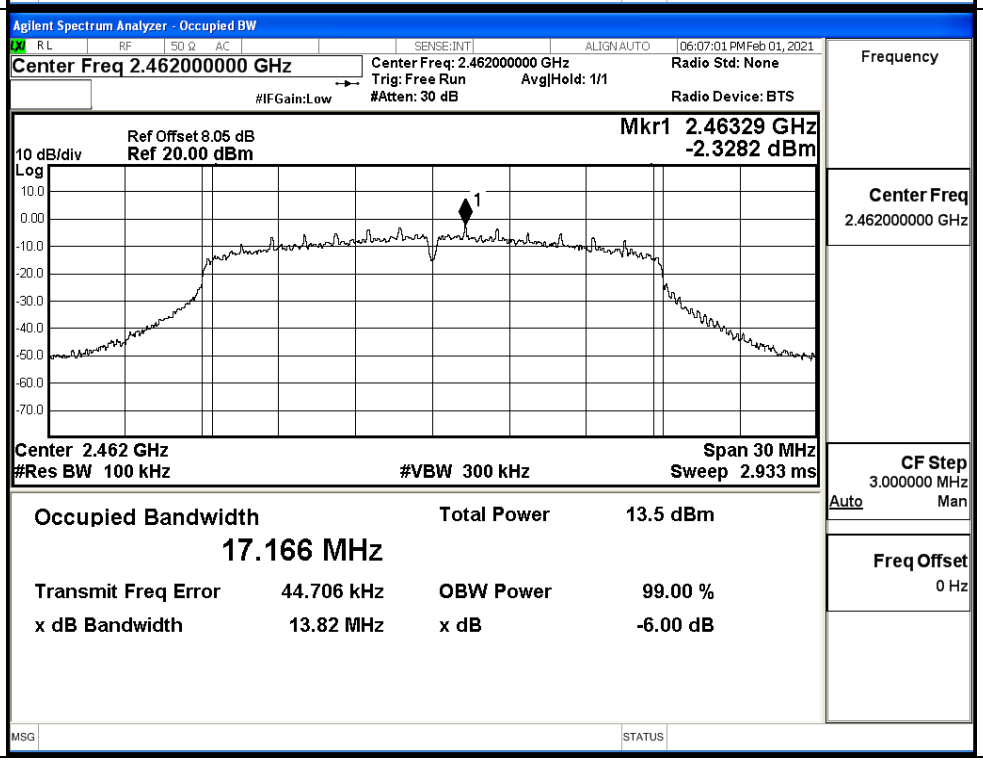
11B/LCH

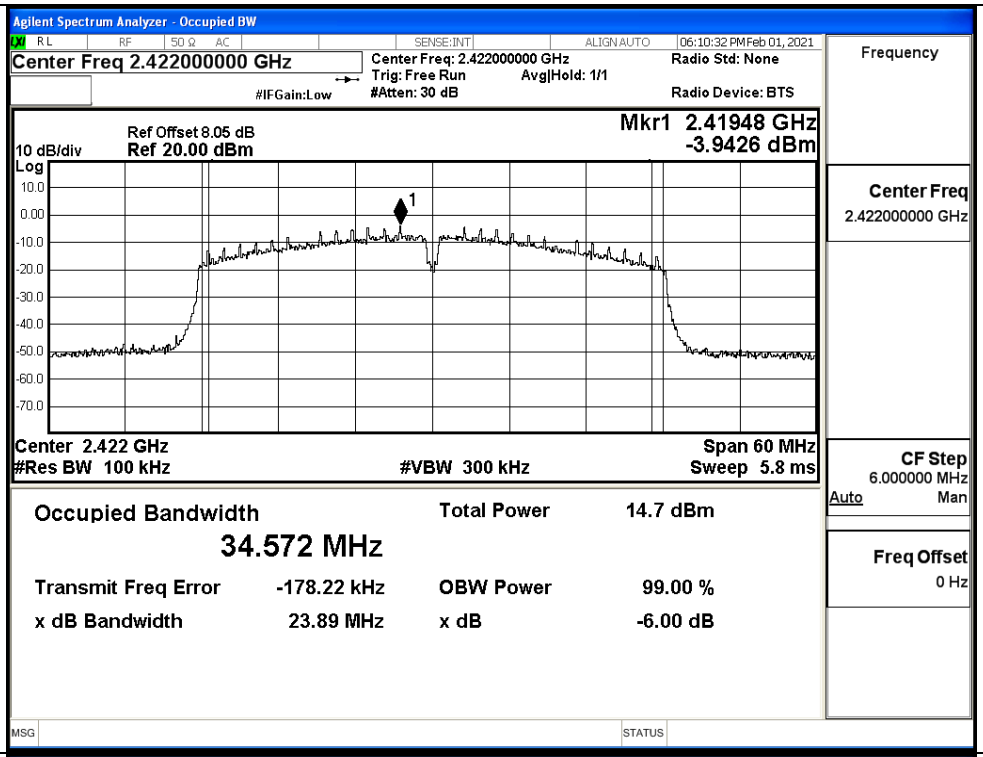
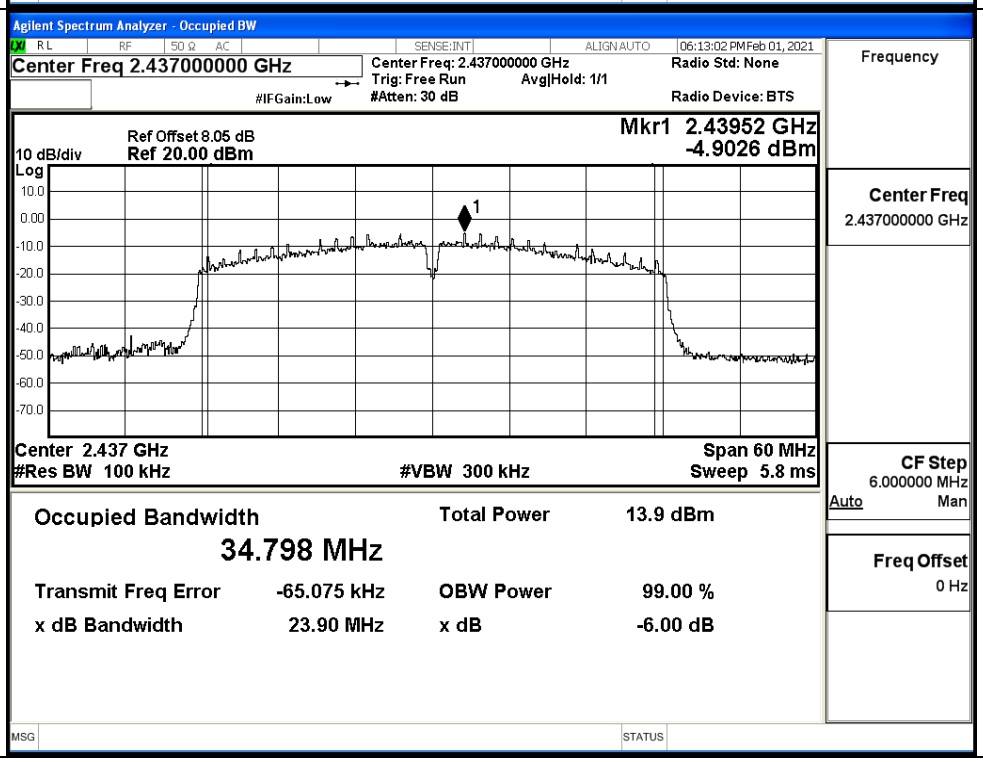


11B/MCH	
11B/HCH	

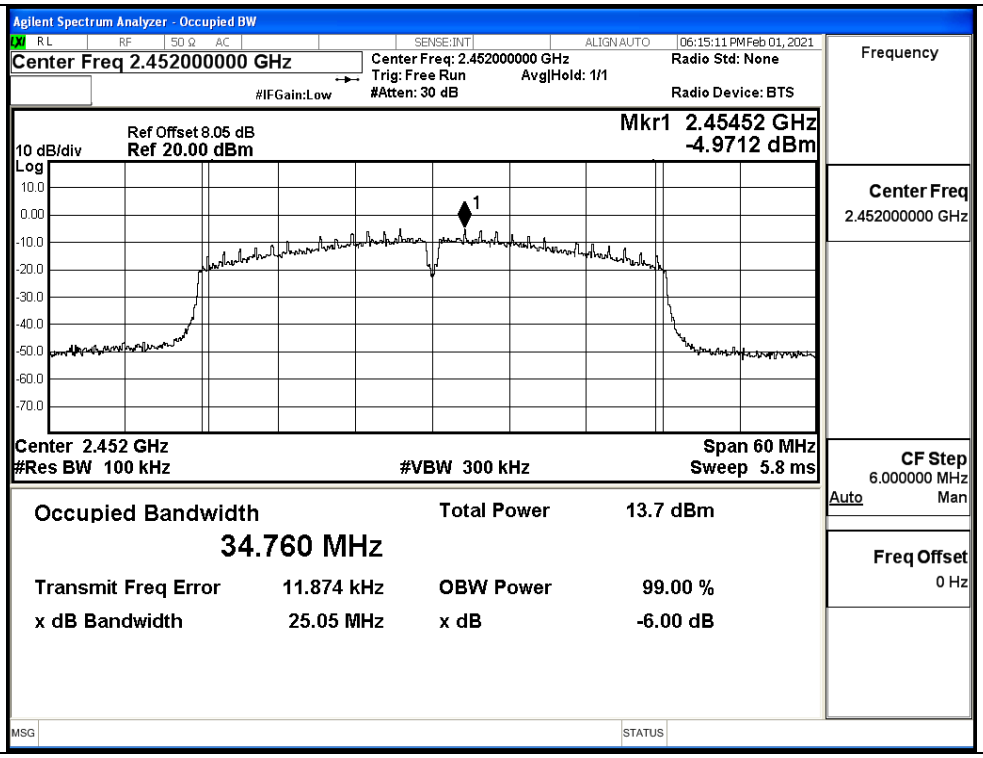
11G/LCH	
11G/MCH	

11G/HCH		
11N20SISO/LCH		

11N20SISO/MCH		
11N20SISO/HCH		

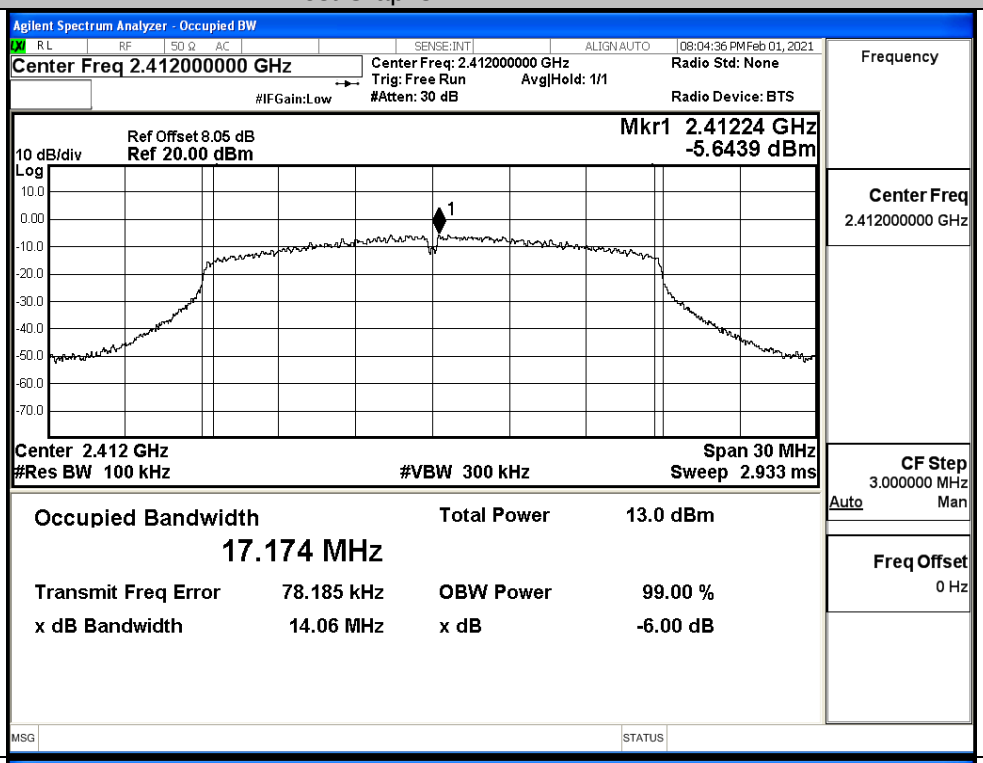
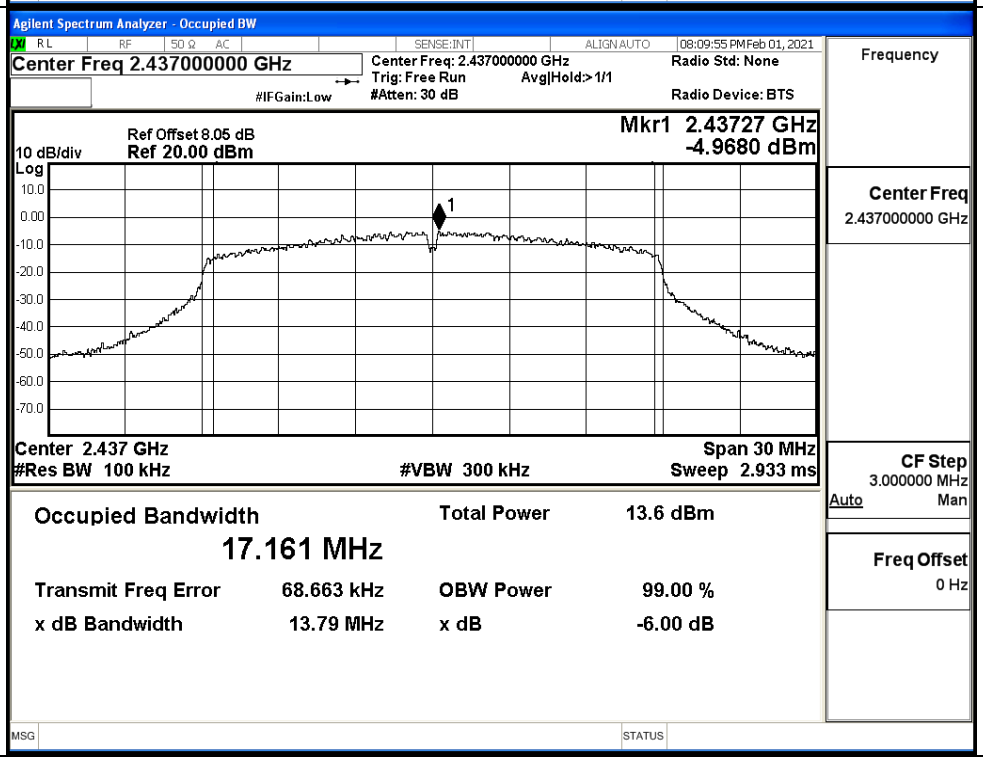
11N40SISO/LCH		
11N40SISO/MCH		

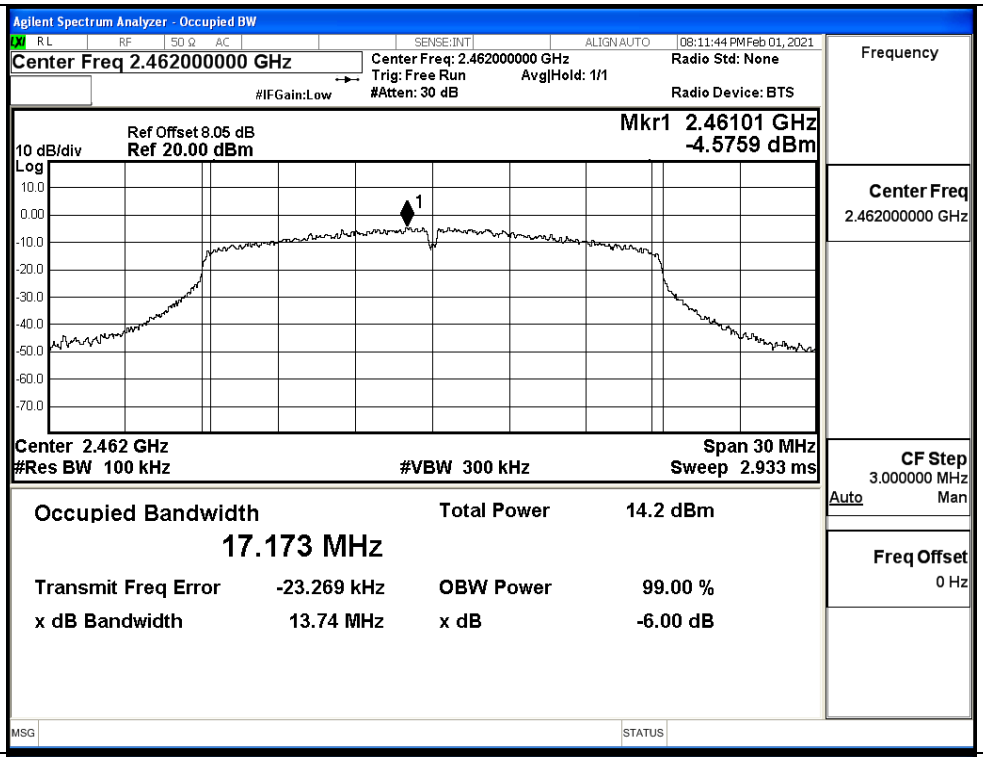
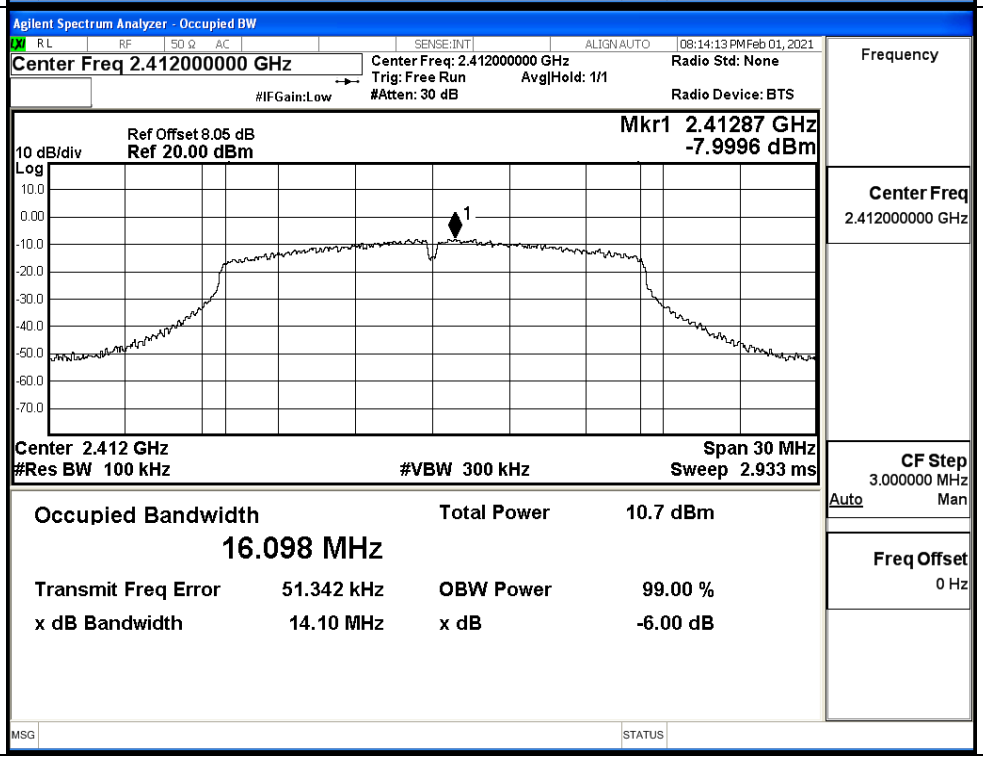
11N40SISO/HCH

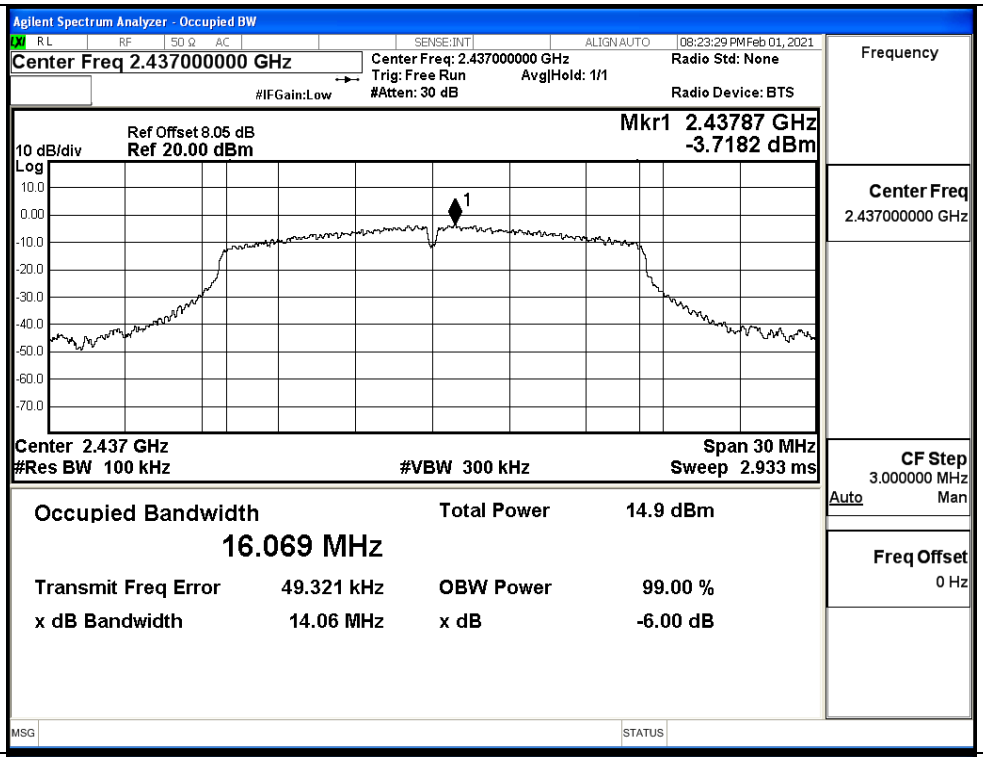
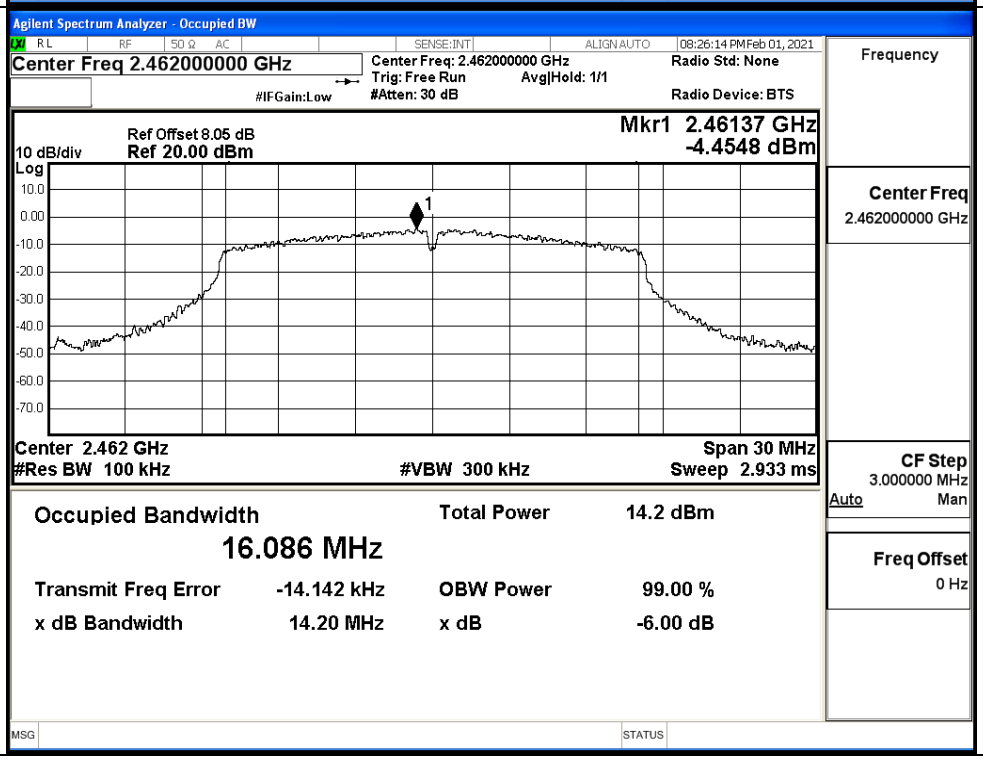


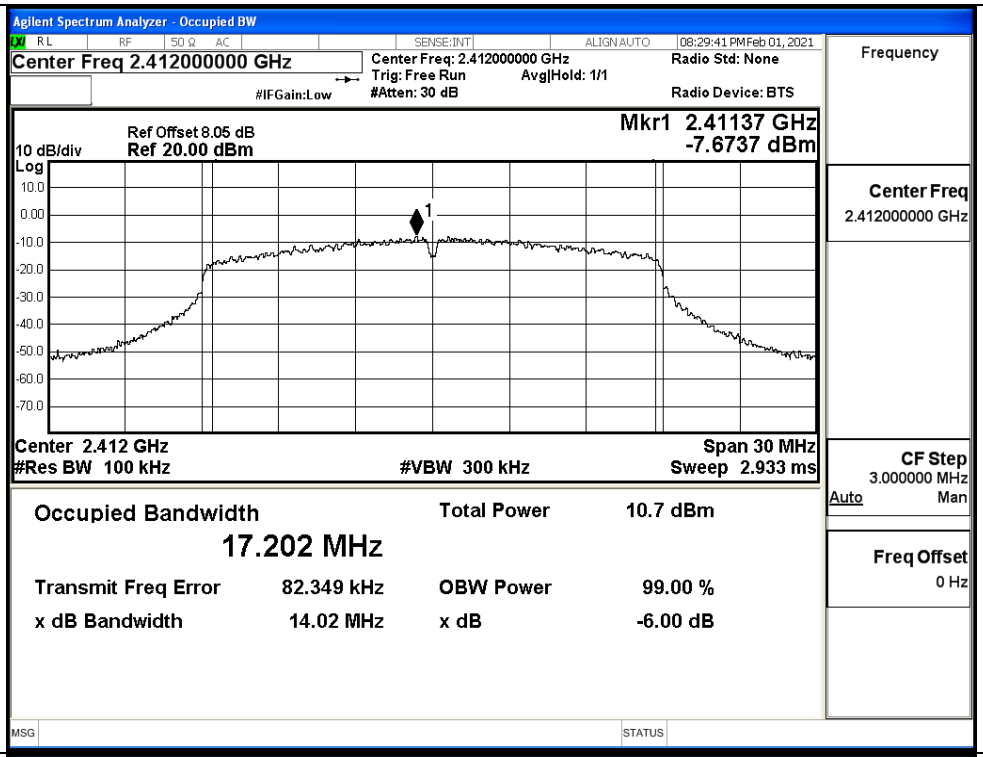
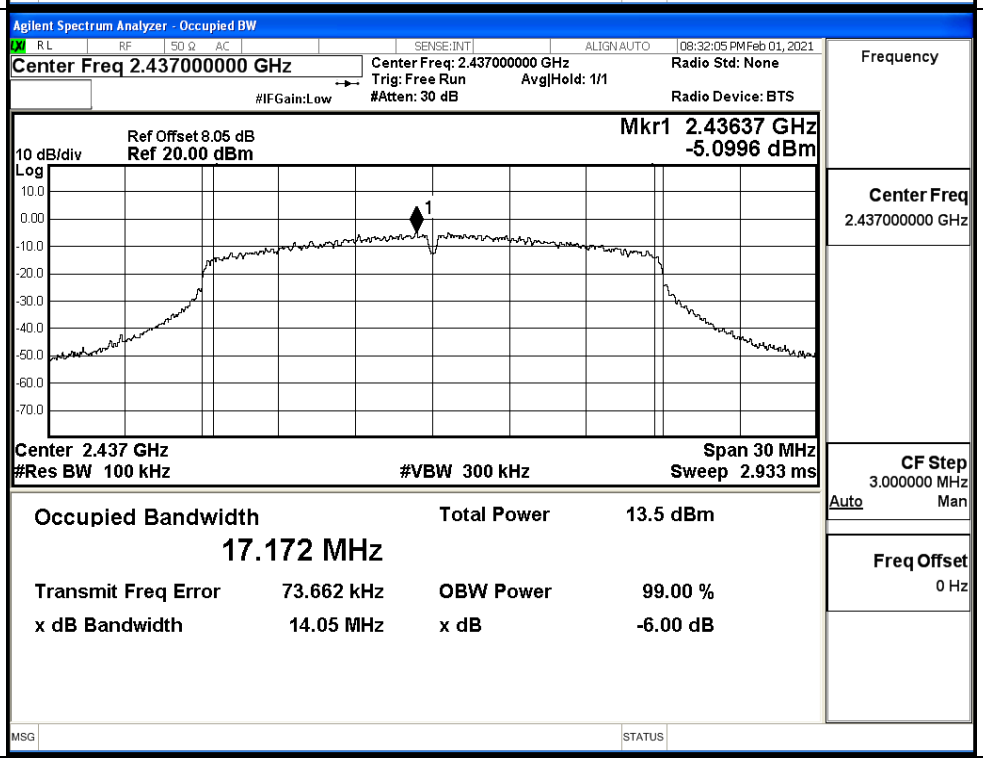
ANT 1

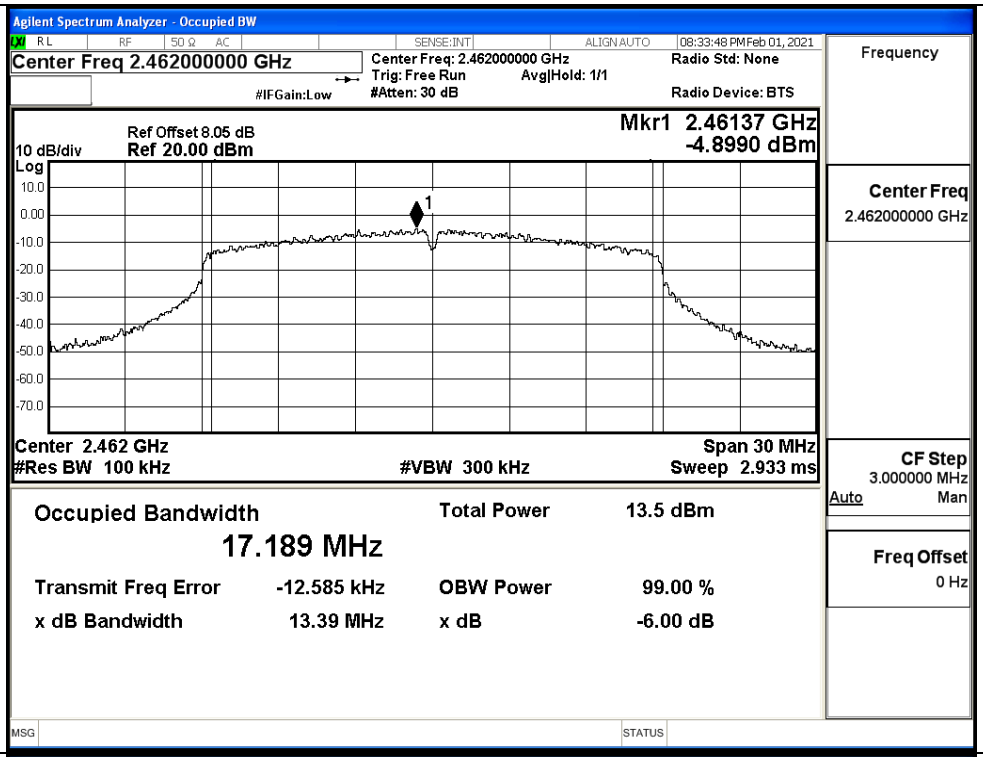
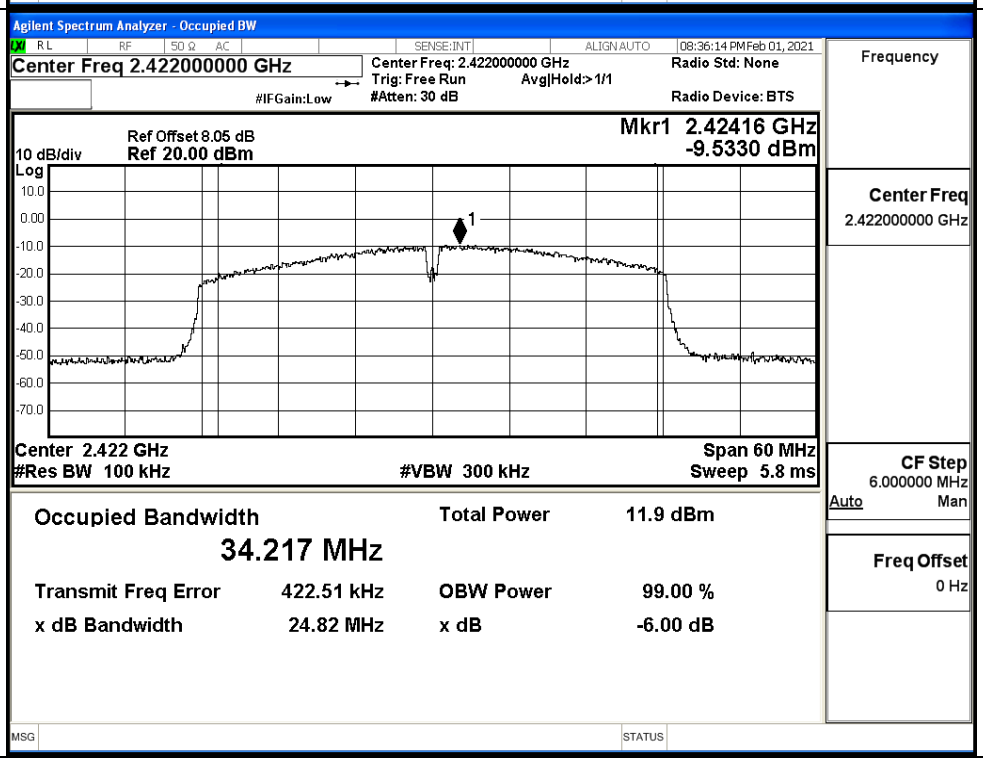
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	14.06	⩾0.5	PASS
	MCH	13.79	⩾0.5	PASS
	HCH	13.74	⩾0.5	PASS
11G	LCH	14.10	⩾0.5	PASS
	MCH	14.06	⩾0.5	PASS
	HCH	14.20	⩾0.5	PASS
11N20SISO	LCH	14.02	⩾0.5	PASS
	MCH	14.05	⩾0.5	PASS
	HCH	13.39	⩾0.5	PASS
11N40SISO	LCH	24.82	⩾0.5	PASS
	MCH	22.79	⩾0.5	PASS
	HCH	23.03	⩾0.5	PASS

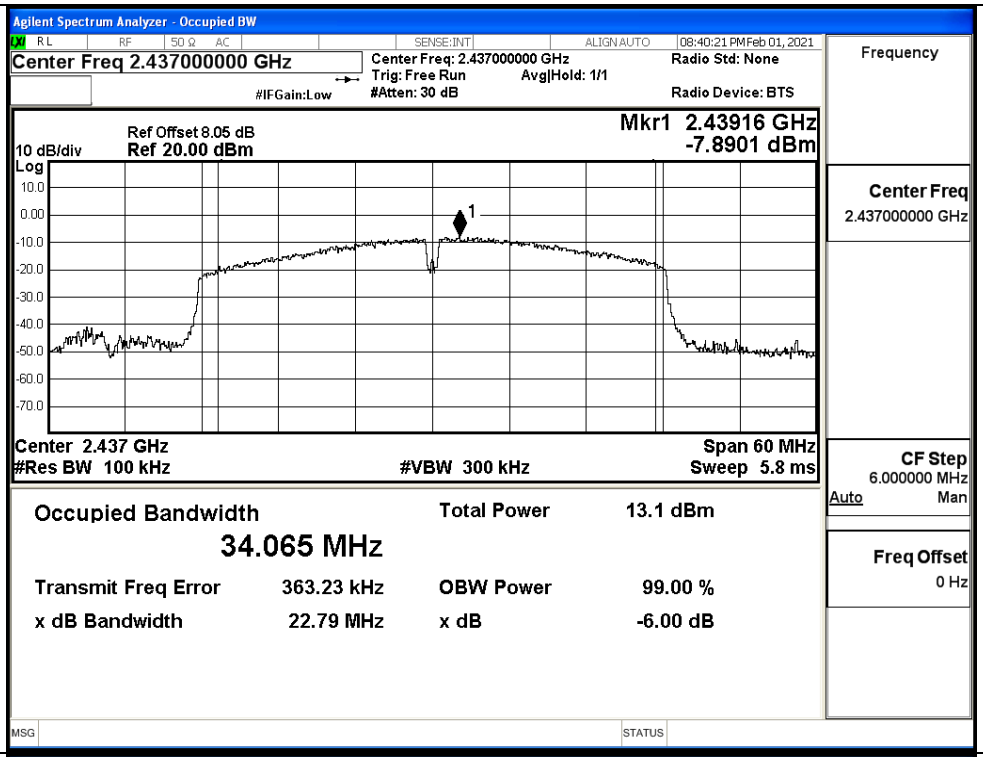
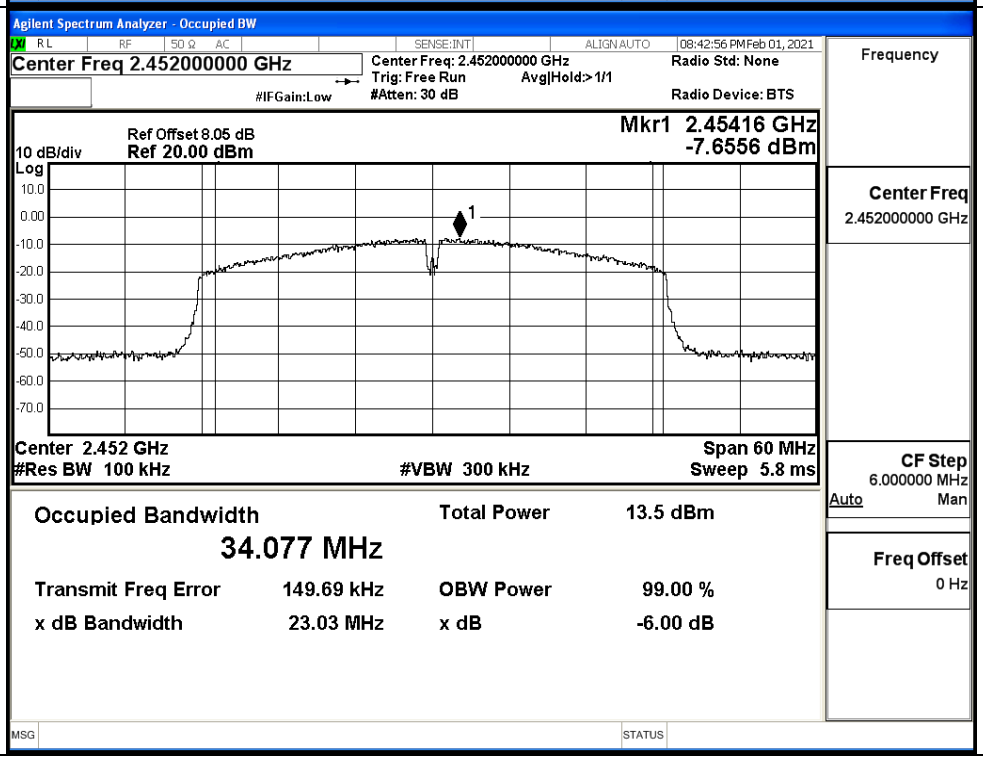
Test Graphs		
11B/LCH		
11B/MCH		

11B/HCH		
11G/LCH		

11G/MCH	
11G/HCH	

11N20SISO/LCH		
11N20SISO/MCH		

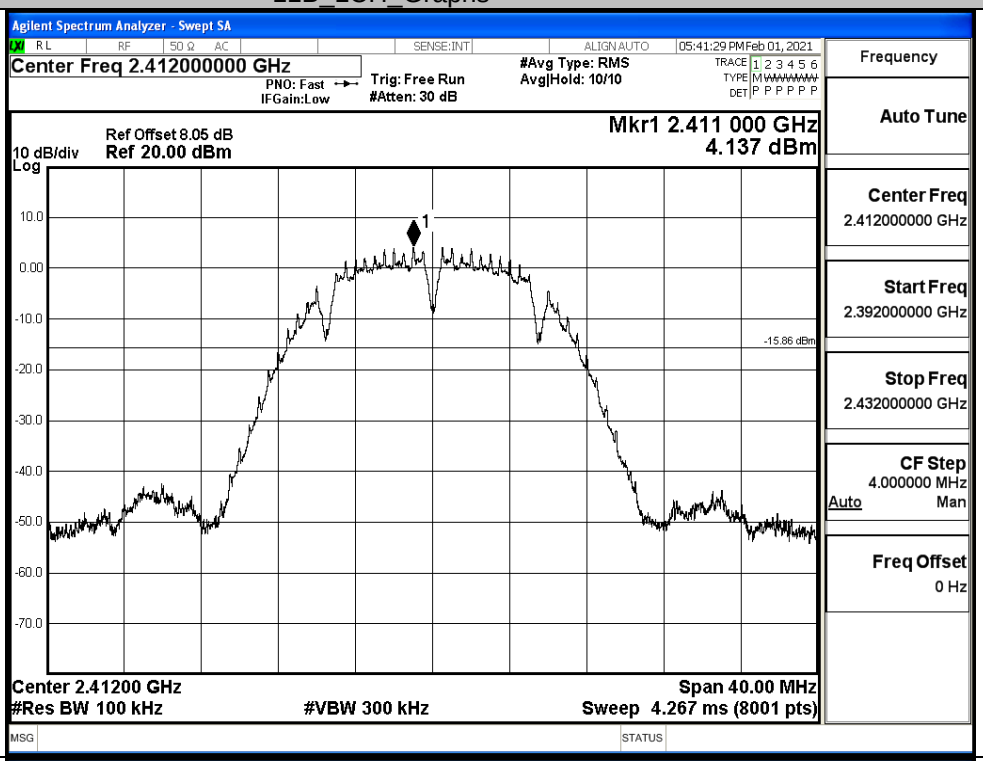
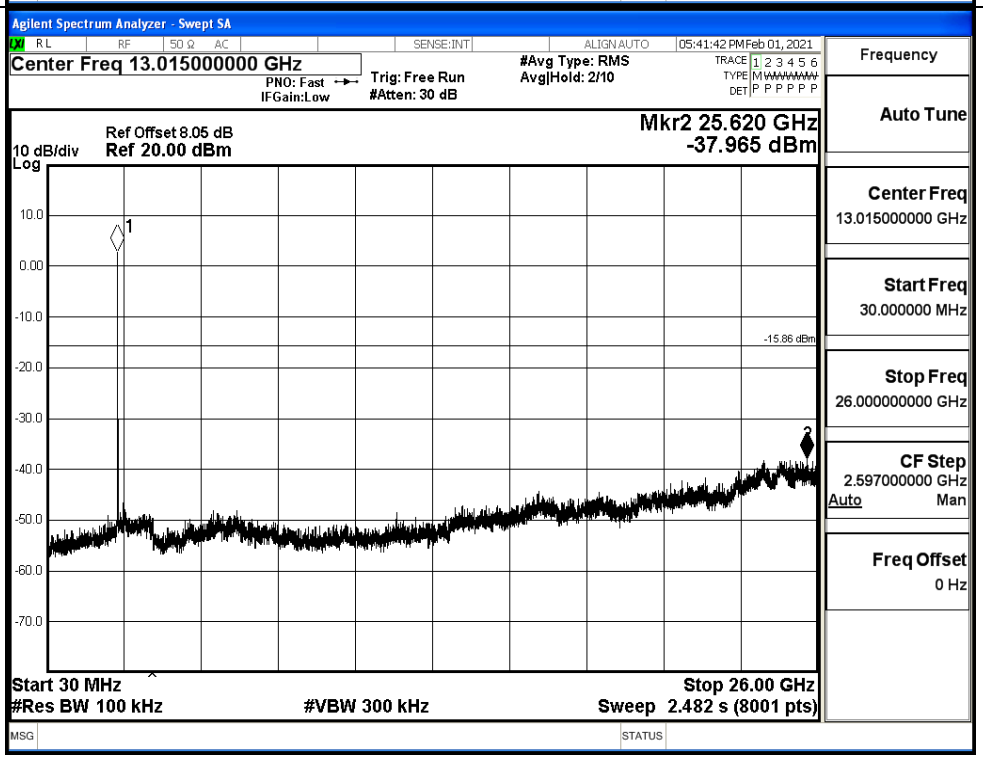
11N20SISO/HCH		
11N40SISO/LCH		

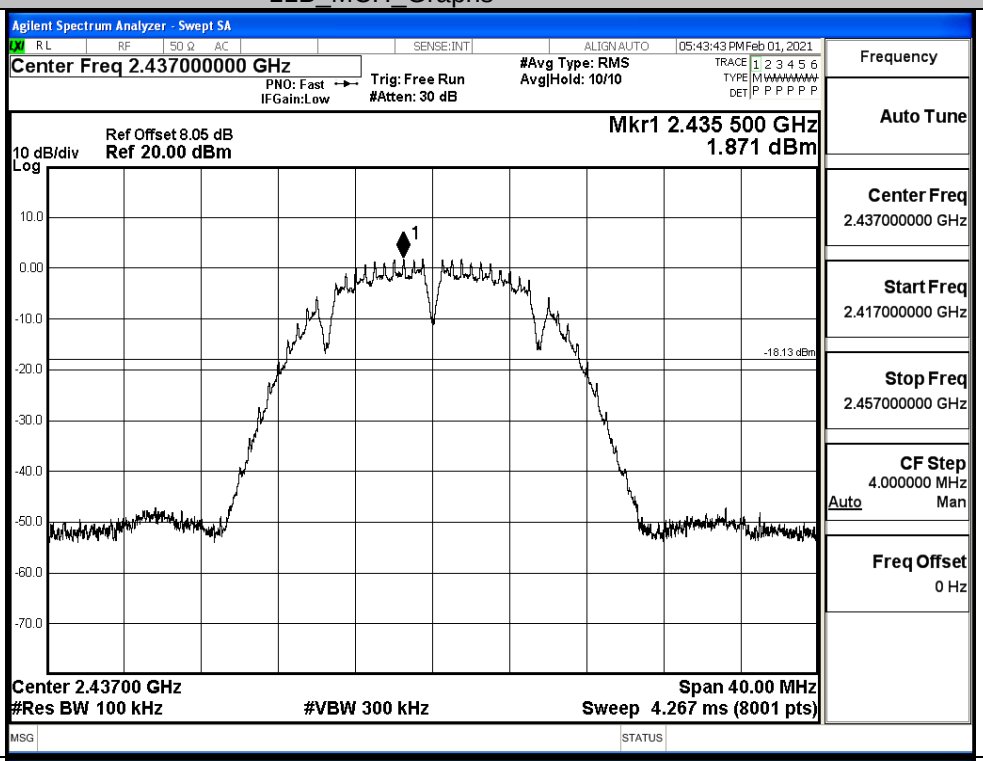
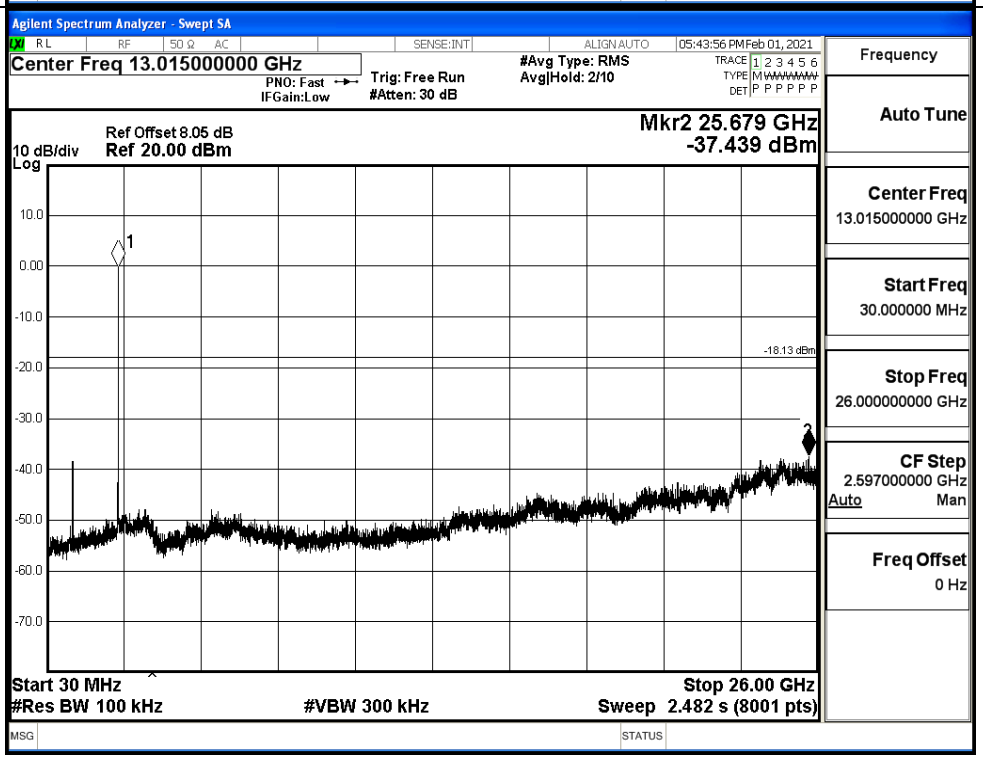
11N40SISO/MCH		
11N40SISO/HCH		

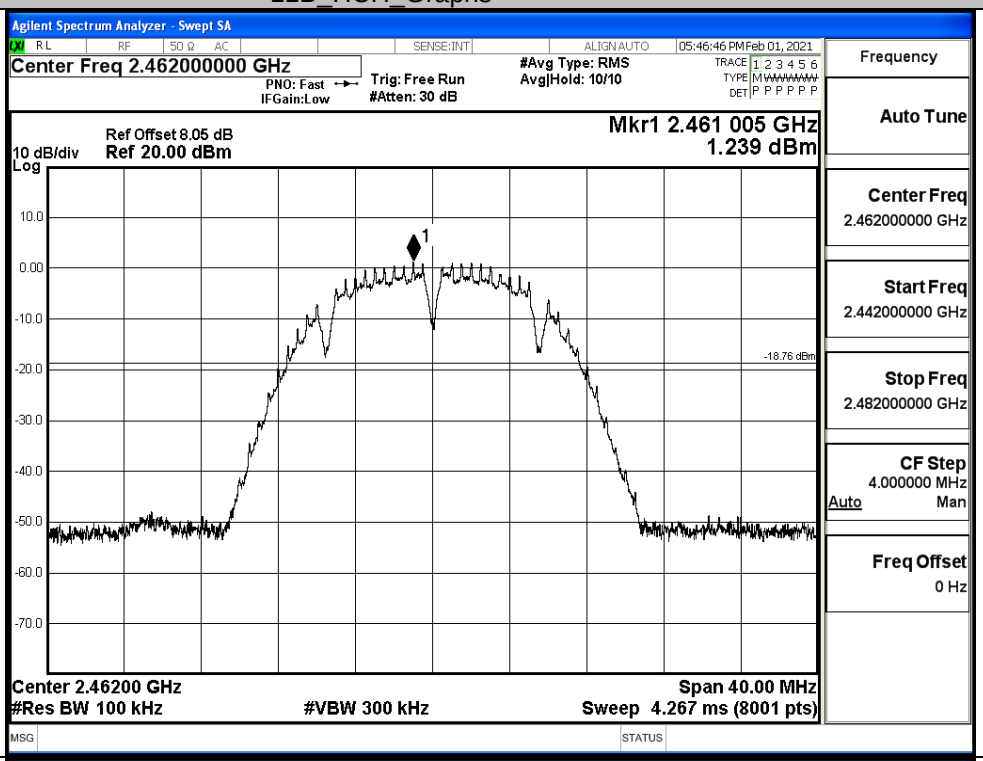
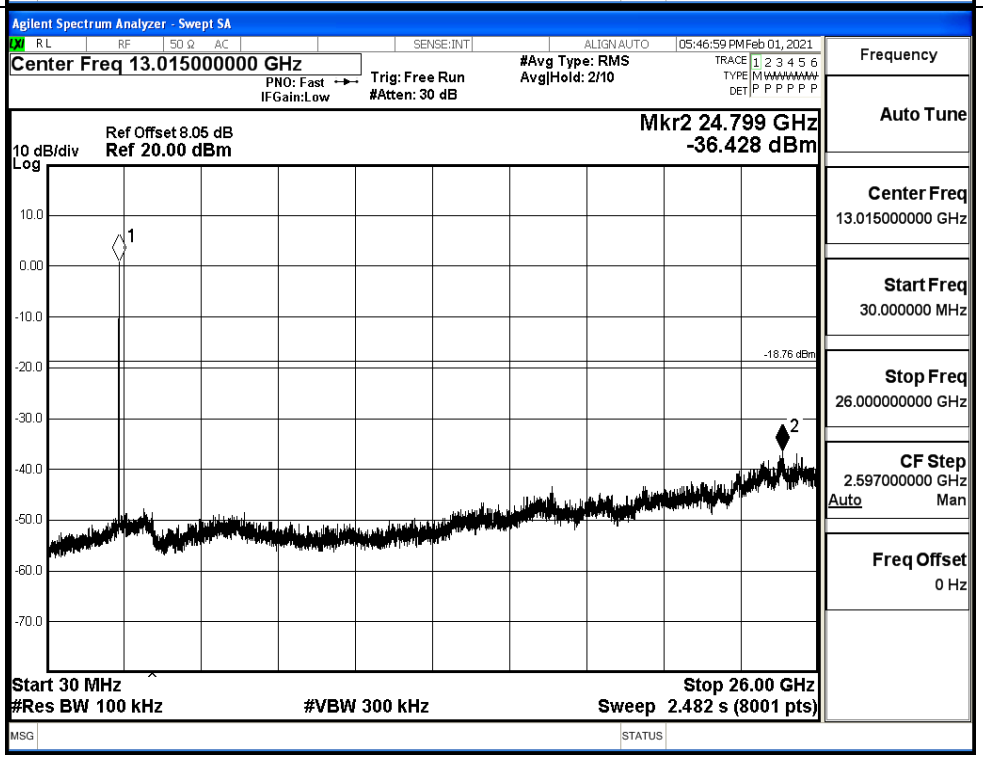
A.5 RF Conducted Spurious Emissions

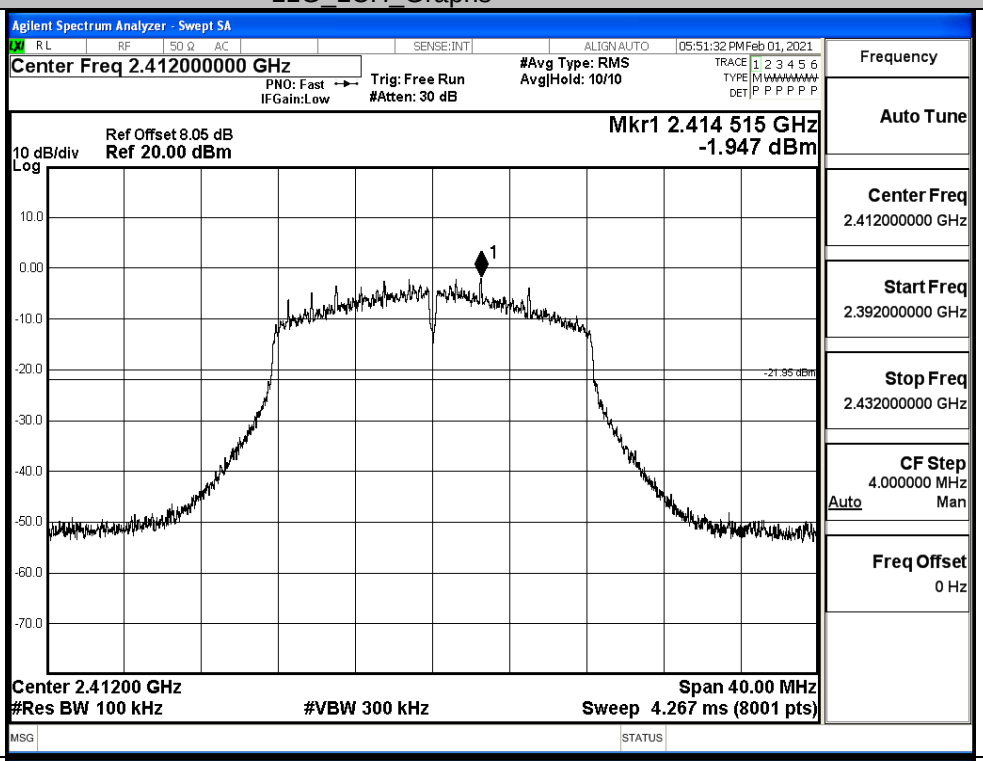
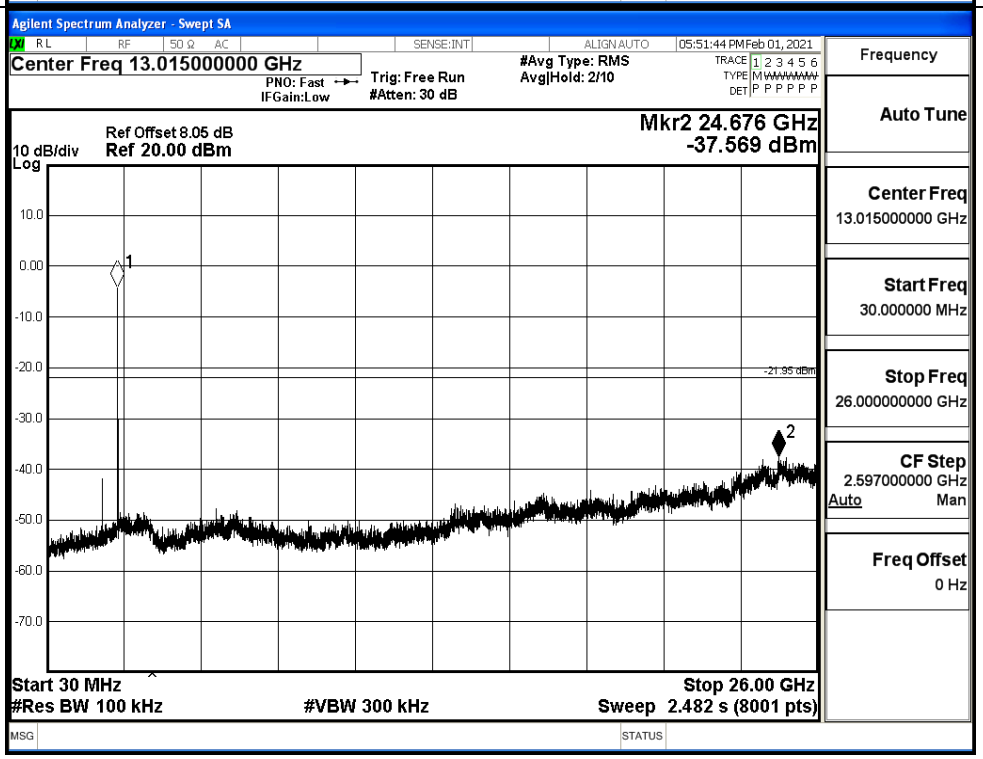
ANT 0

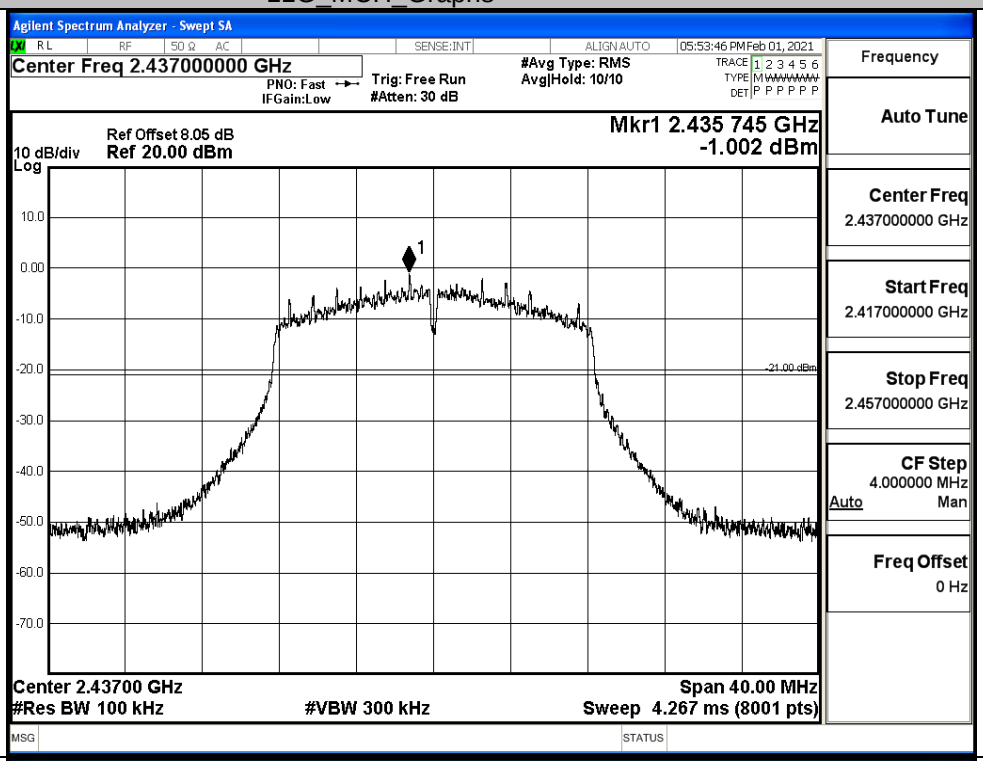
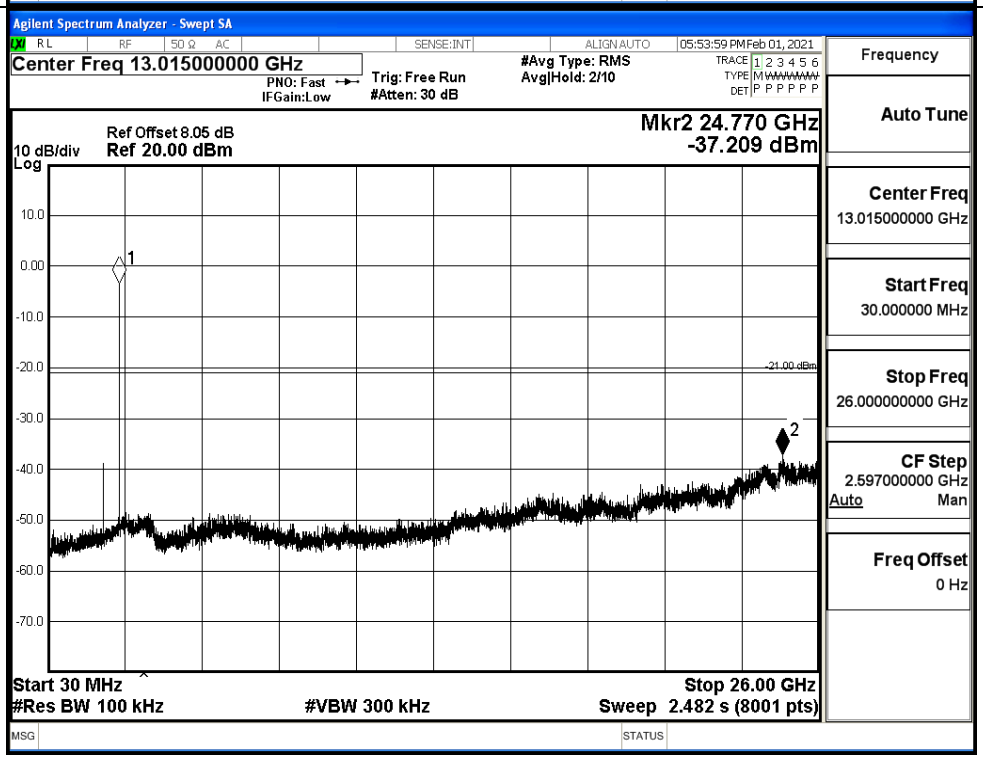
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	4.137	-37.965	-15.863	PASS
	MCH	1.871	-37.439	-18.129	PASS
	HCH	1.239	-36.428	-18.761	PASS
11G	LCH	-1.947	-37.569	-21.947	PASS
	MCH	-1.002	-37.209	-21.002	PASS
	HCH	-3.144	-37.106	-23.144	PASS
11N20 SISO	LCH	-0.861	-38.503	-20.861	PASS
	MCH	-2.248	-36.406	-22.248	PASS
	HCH	-3.025	-37.607	-23.025	PASS
11N40 SISO	LCH	-4.36	-37.894	-24.360	PASS
	MCH	-5.218	-38.045	-25.218	PASS
	HCH	-5.428	-36.694	-25.428	PASS

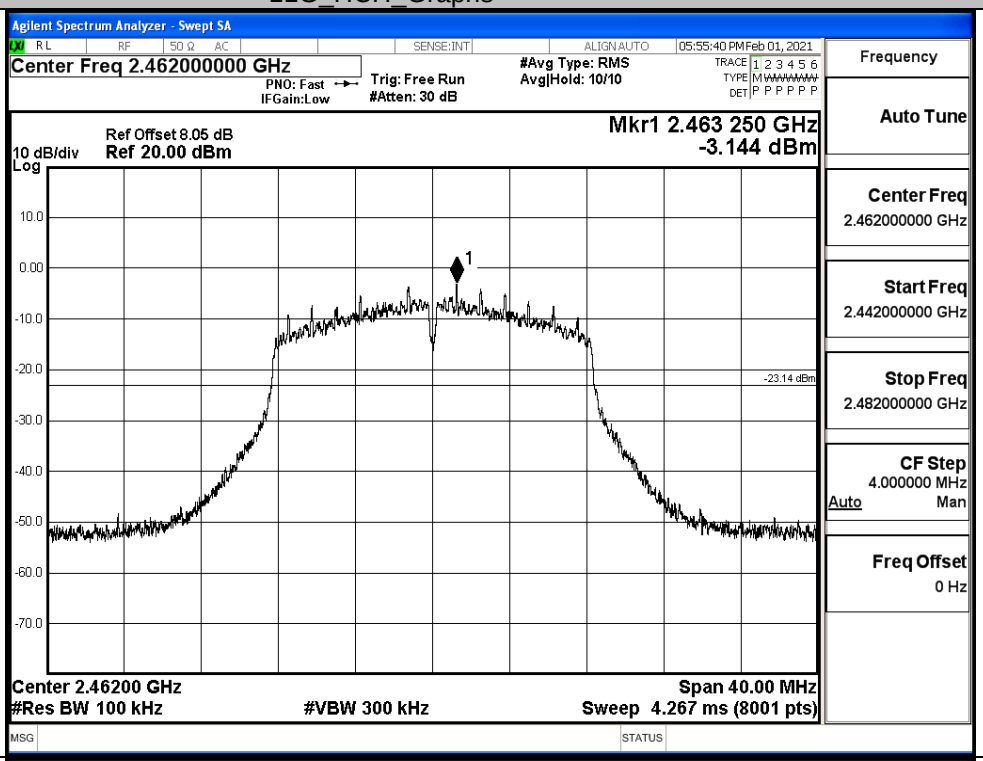
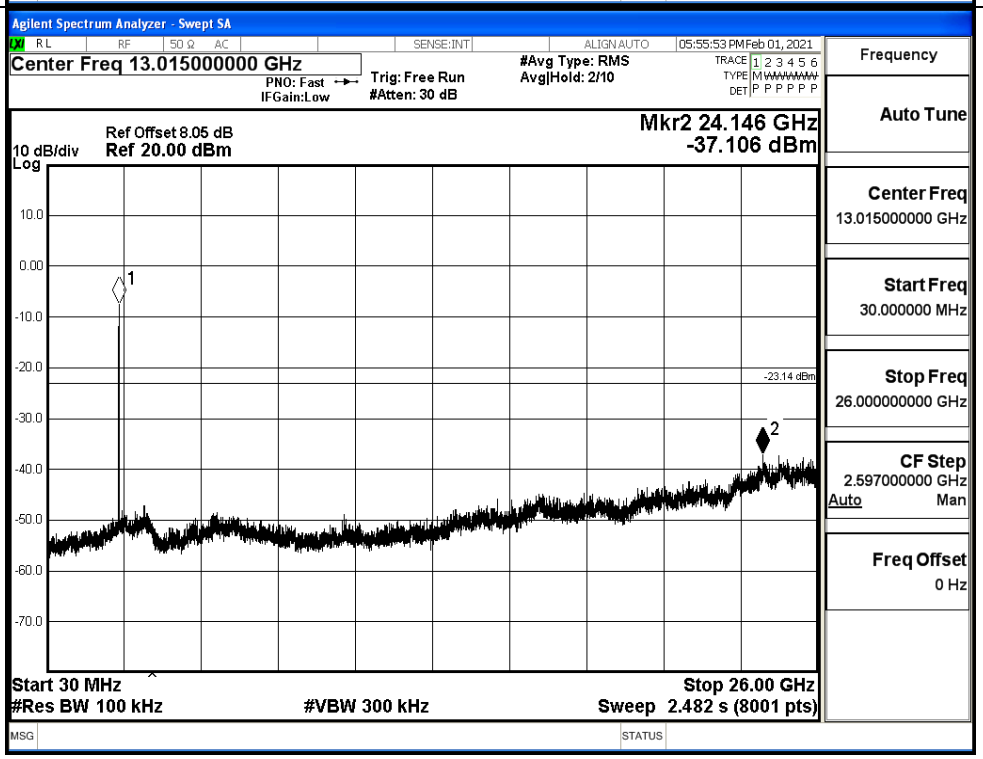
11B_LCH_Graphs		
Pref/11B/LCH		
Puw/11B/LCH		

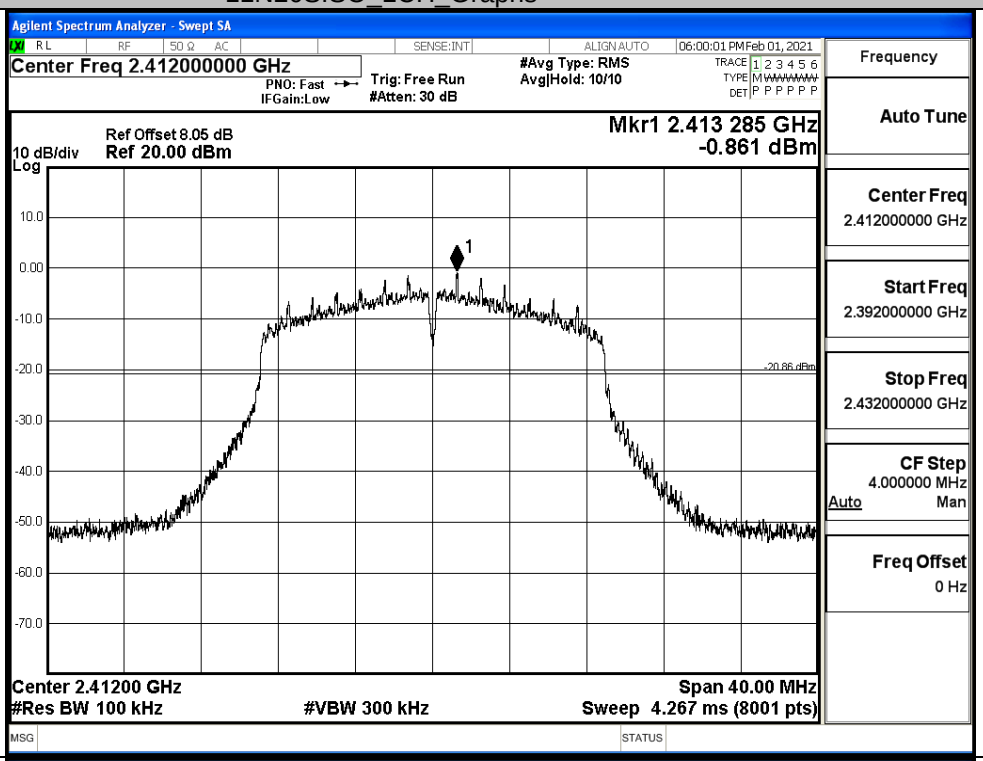
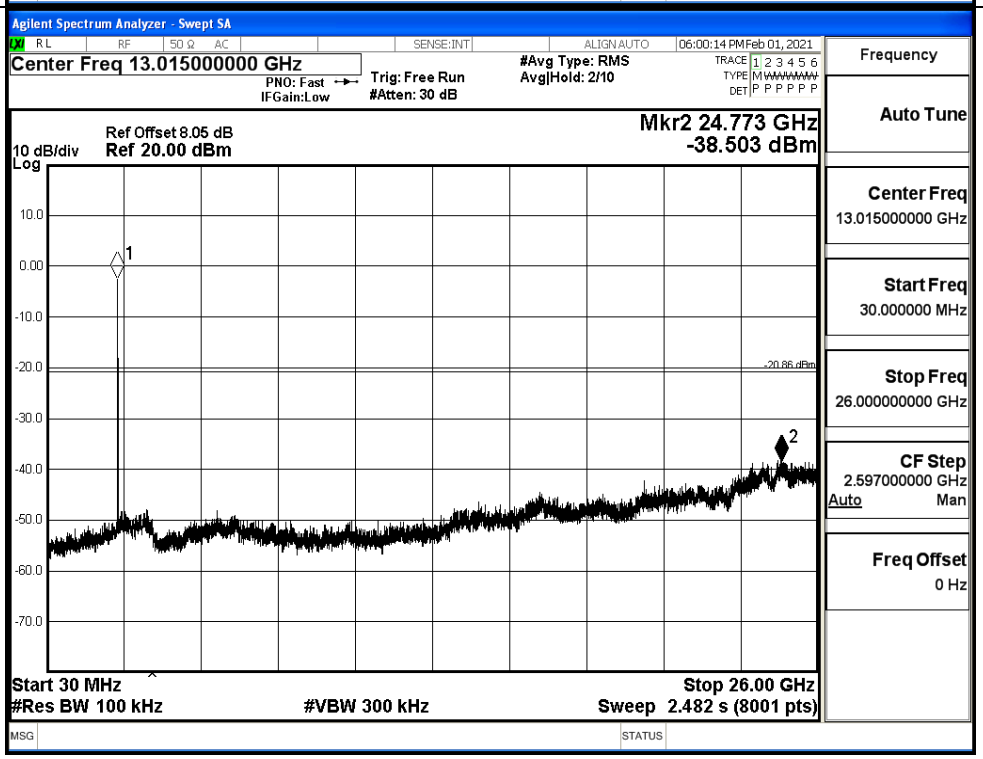
11B_MCH_Graphs		
Pref/11B/MCH		
Puw/11B/MCH		

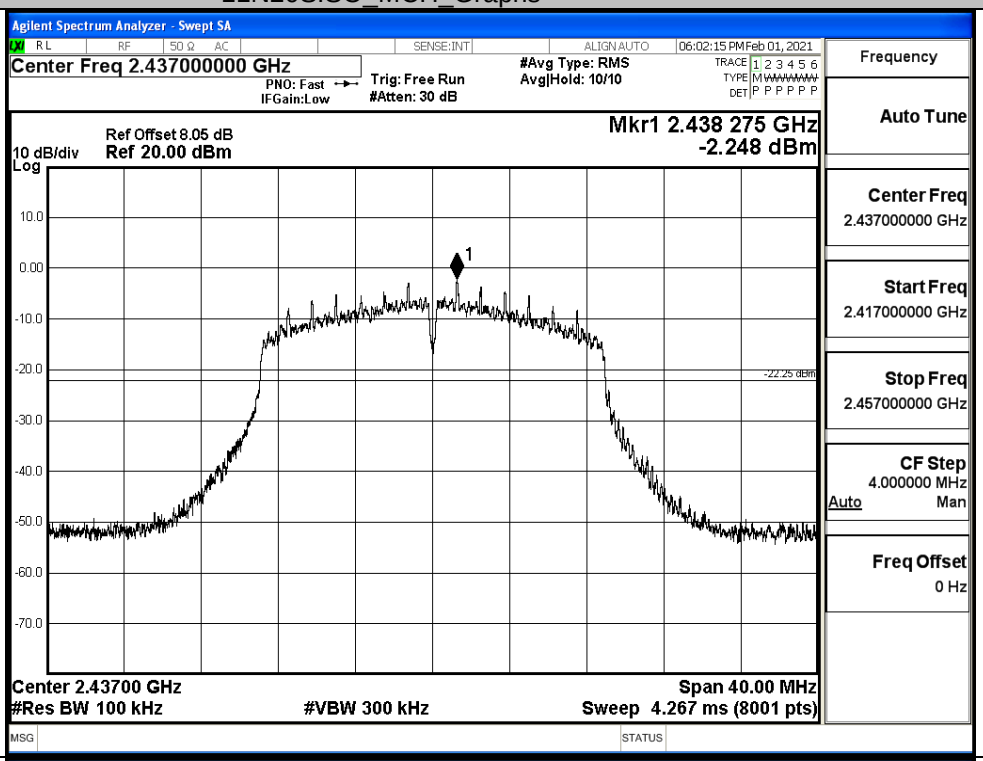
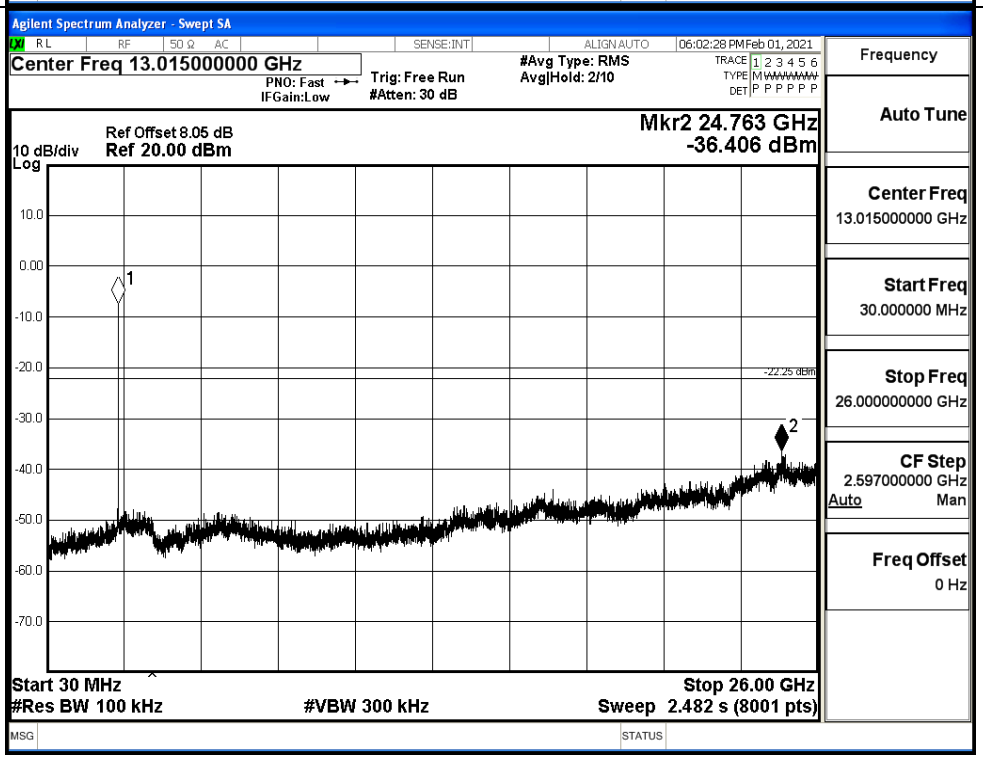
11B_HCH_Graphs		
Pref/11B/HCH		
Puw/11B/HCH		

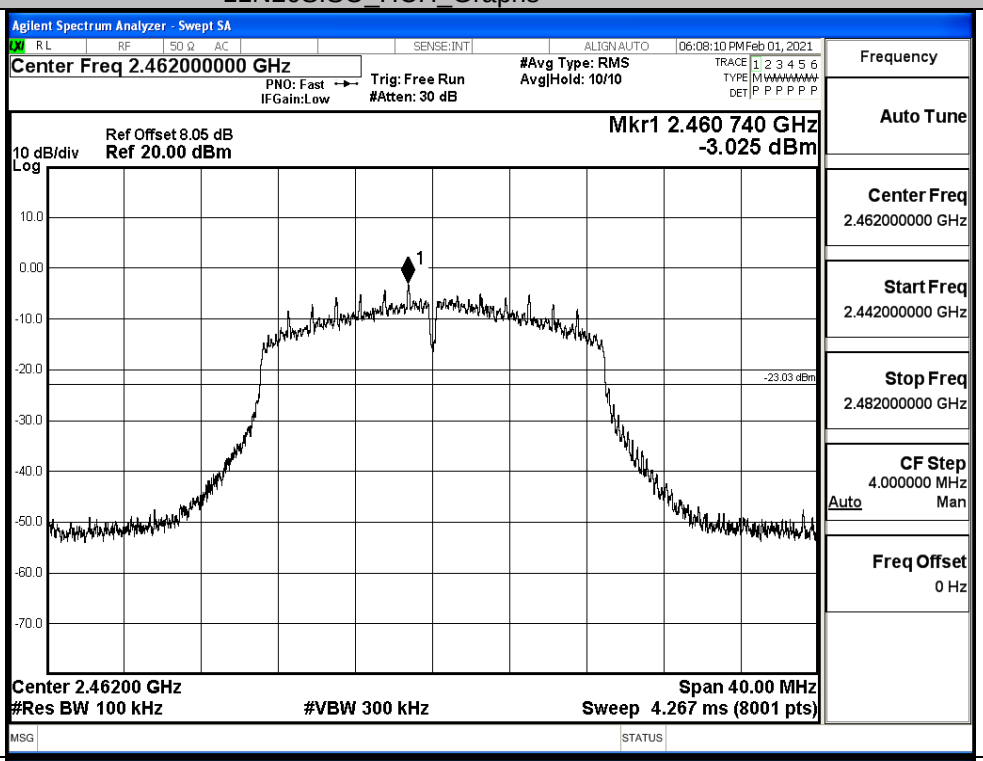
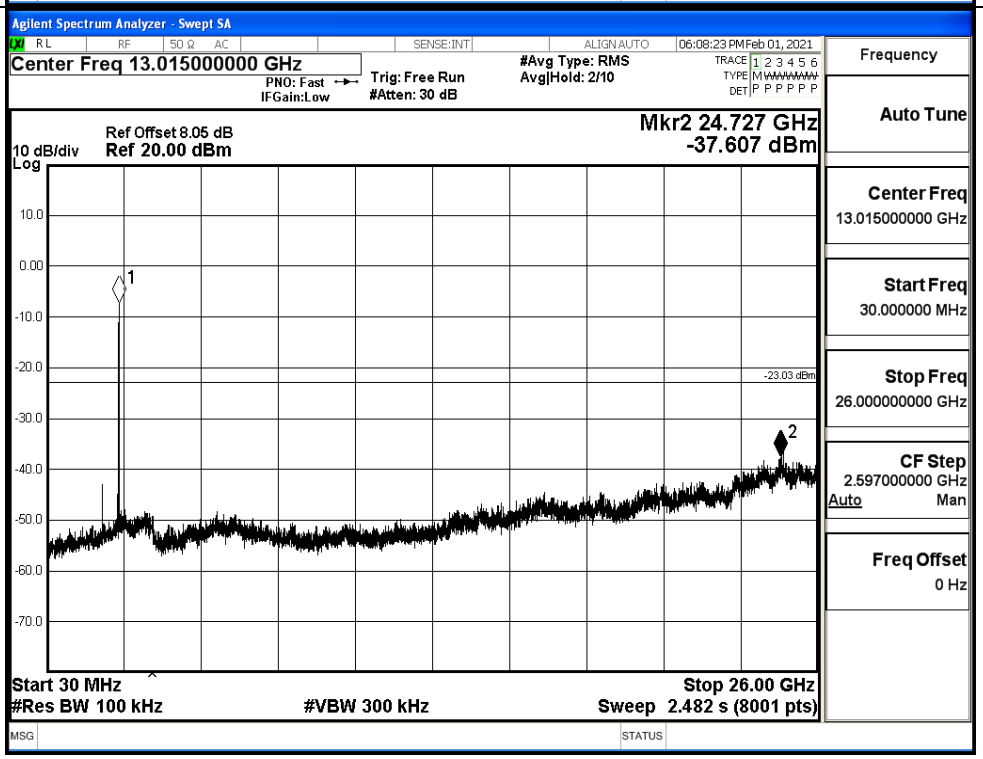
11G_LCH_Graphs		
Pref/11G/LCH		
Puw/11G/LCH		

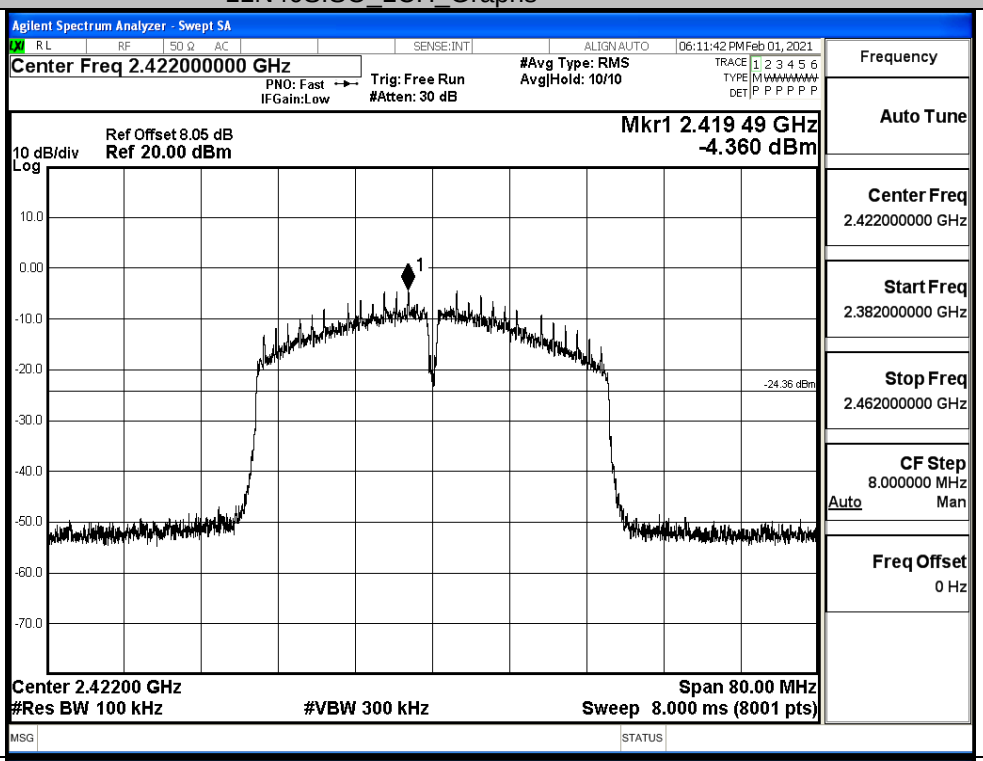
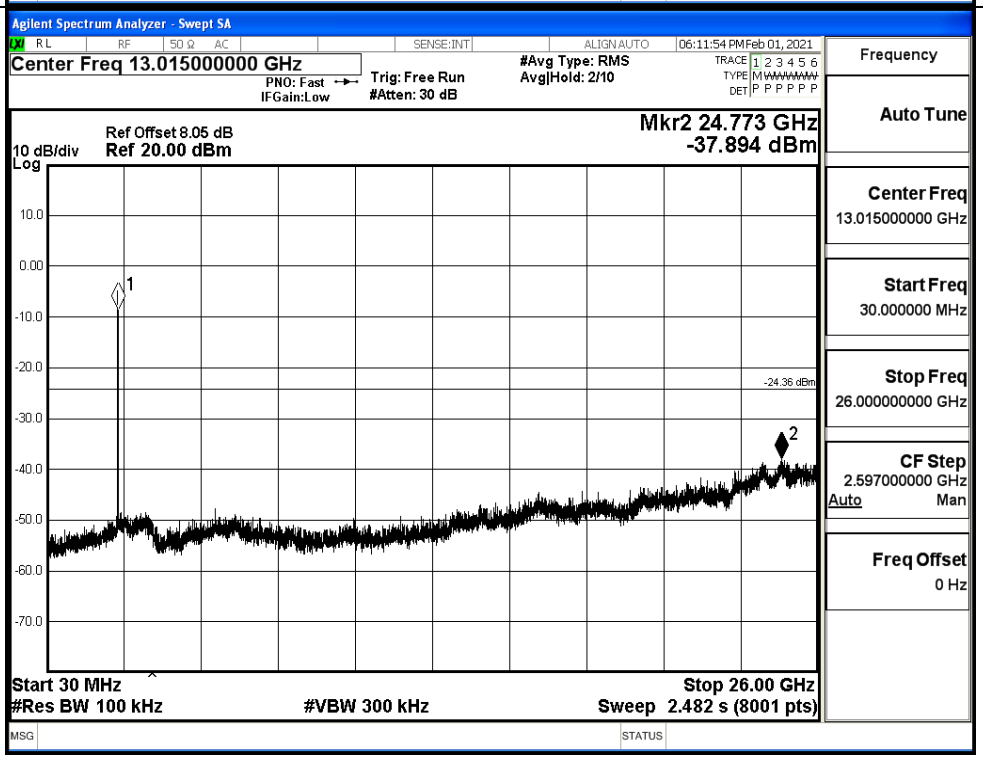
11G_MCH_Graphs	
Pref/11G/MCH	
Puw/11G/MCH	

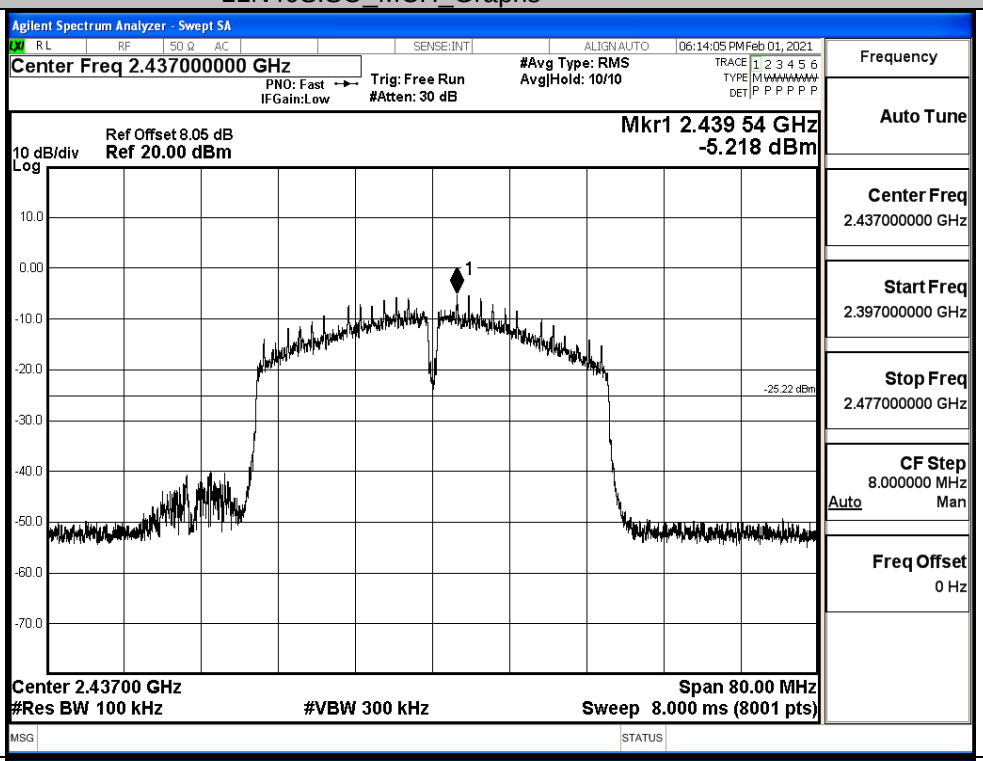
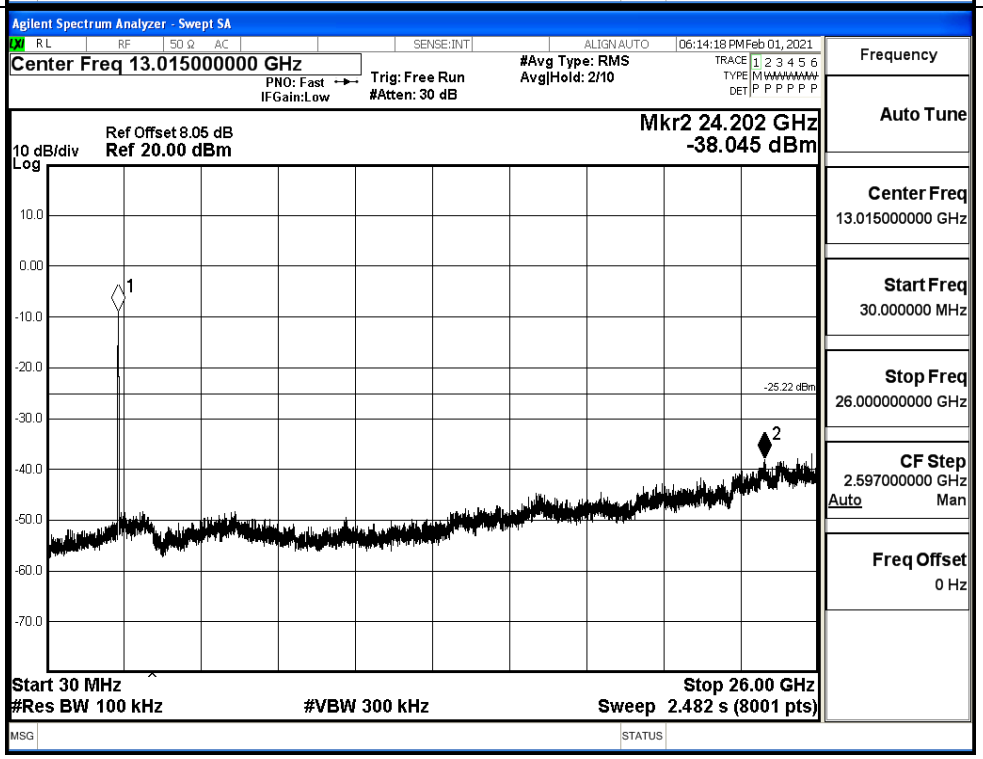
11G_HCH_Graphs		
Pref/11G/HCH		
Puw/11G/HCH		

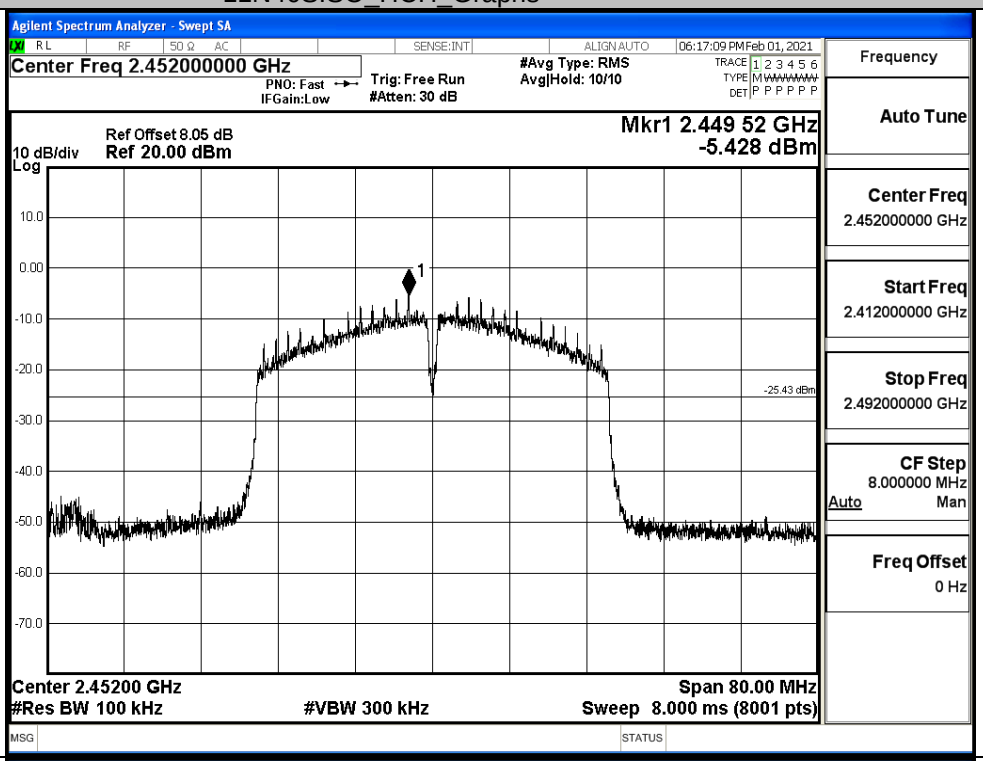
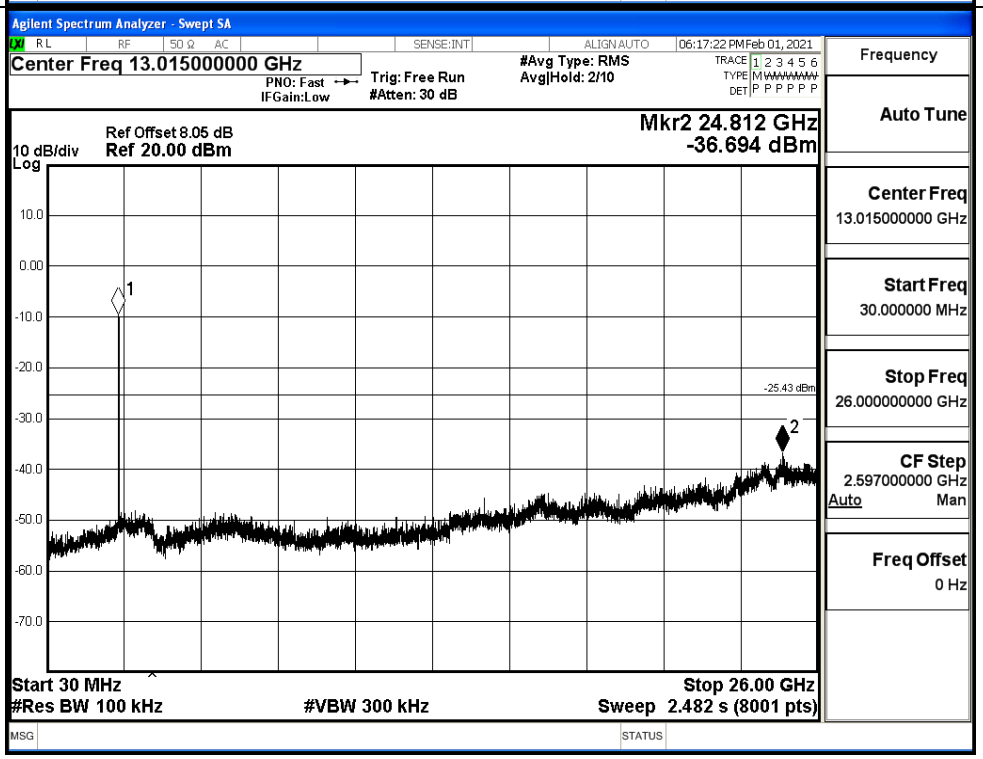
11N20SISO_LCH_Graphs		
Pref/11N20SISO/LCH		
Puw/11N20SISO/LCH		

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

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

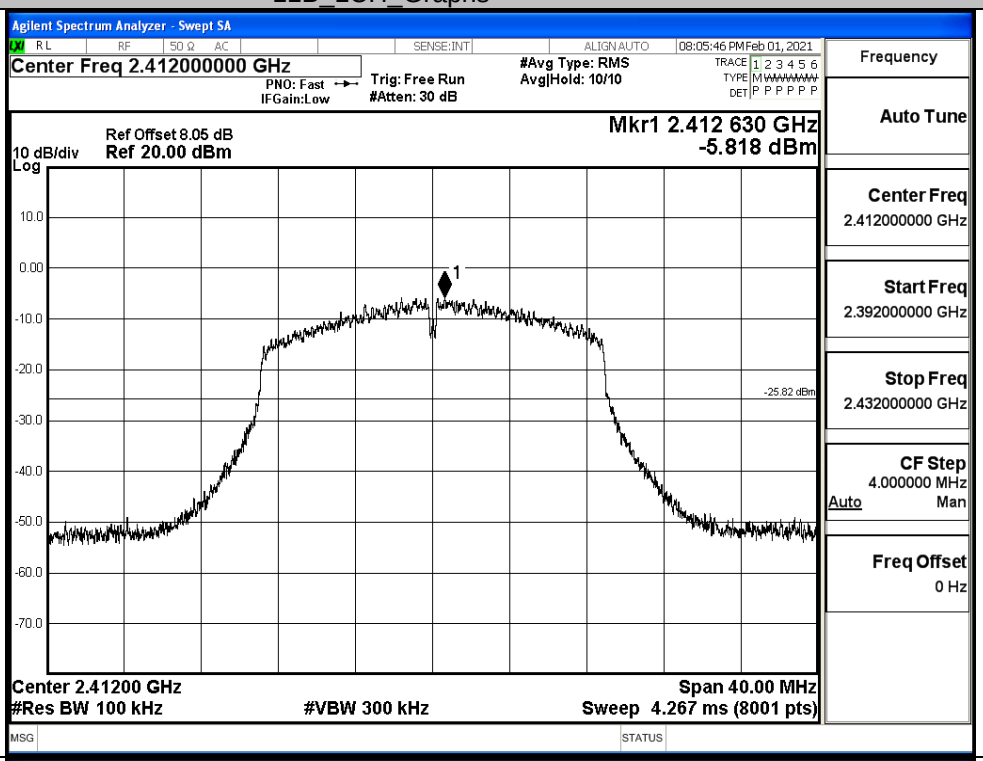
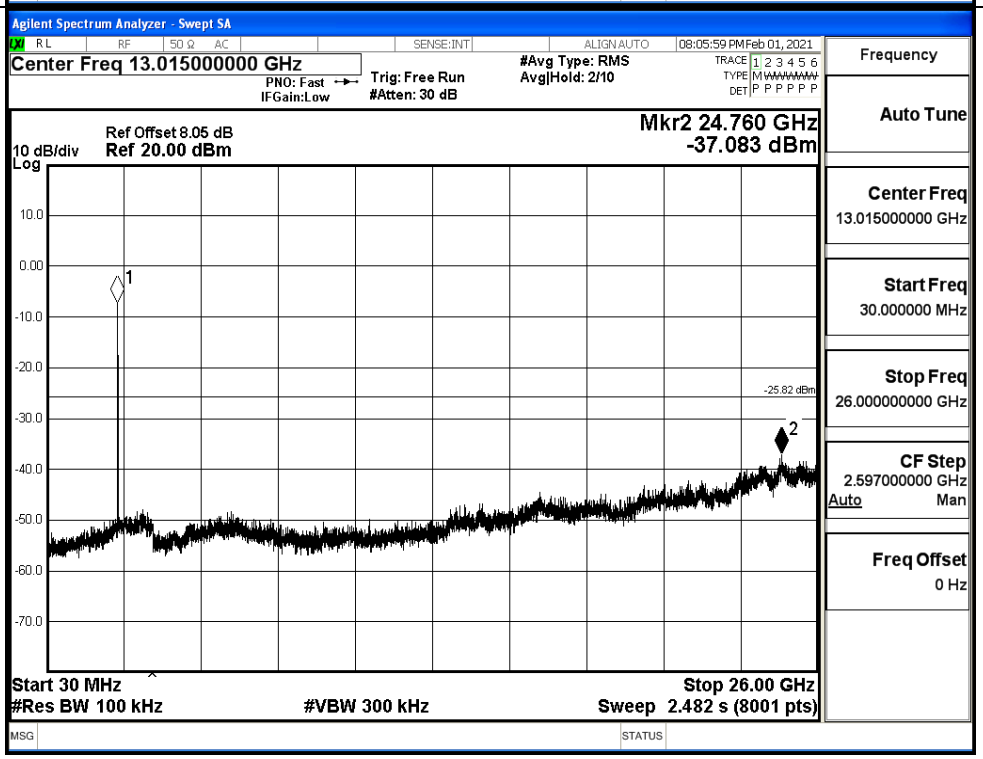
11N40SISO_LCH_Graphs	
Pref/11N40 SISO/LCH	
Puw/11N40 SISO/LCH	

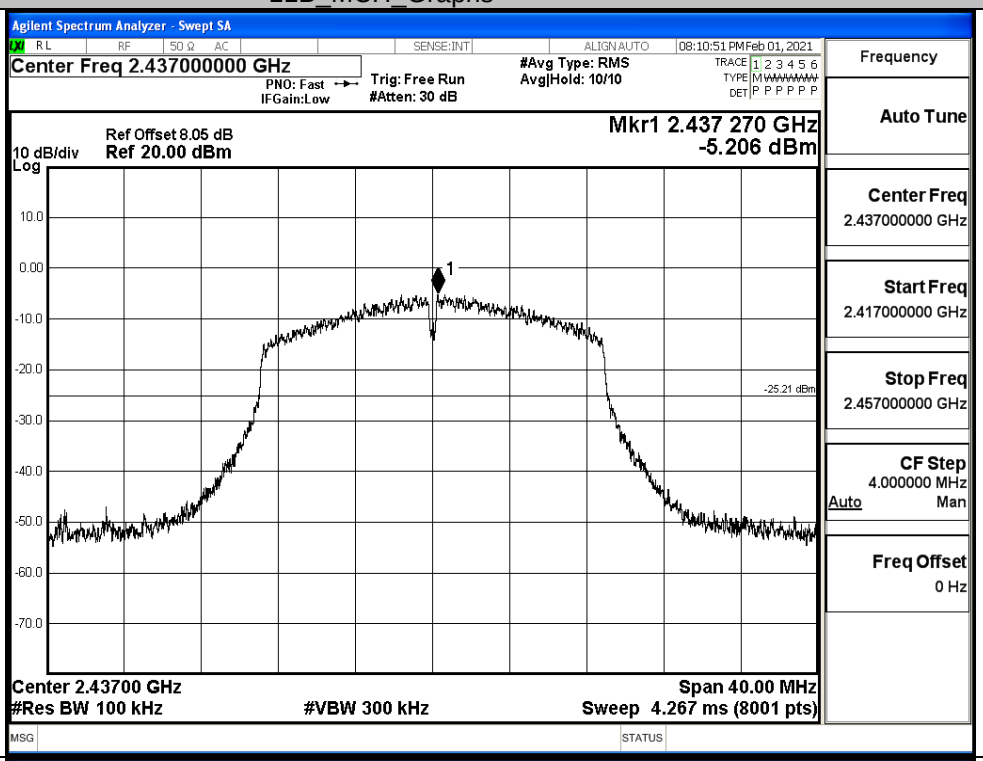
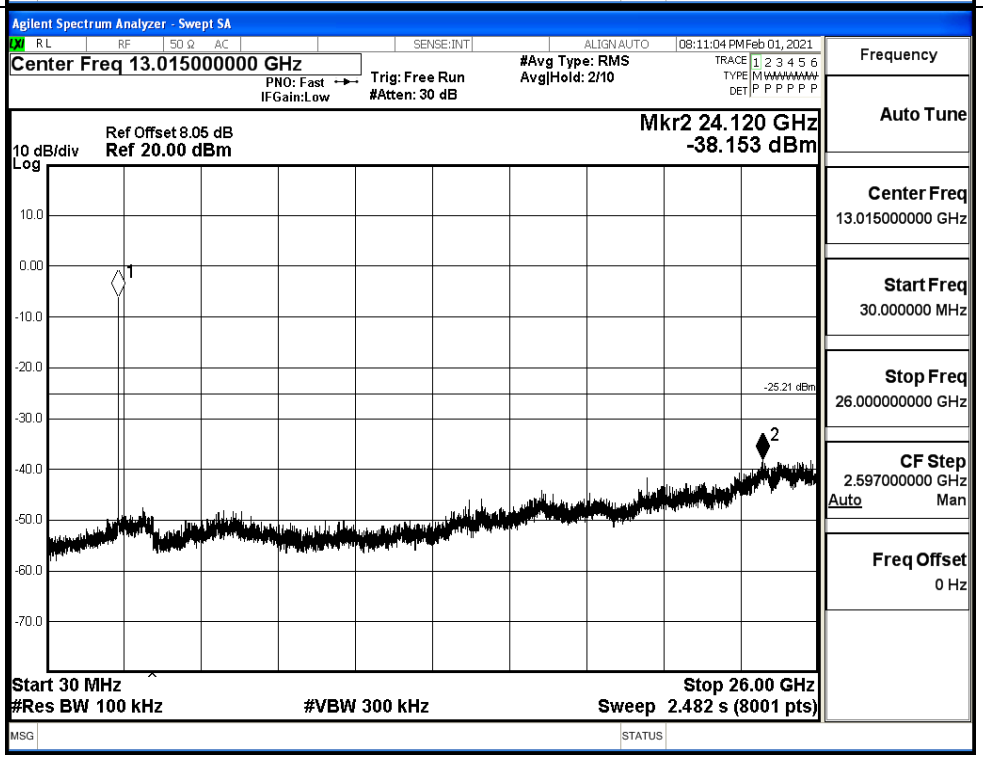
11N40SISO_MCH_Graphs	
Pref/11N40 SISO/MCH	
Puw/11N40 SISO/MCH	

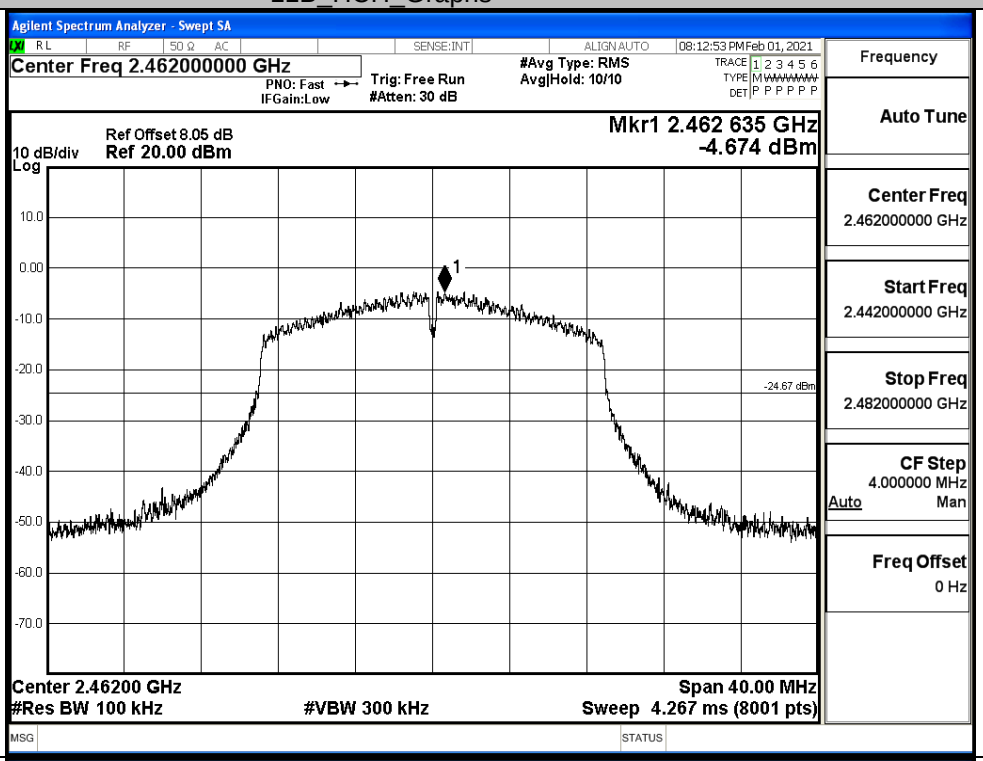
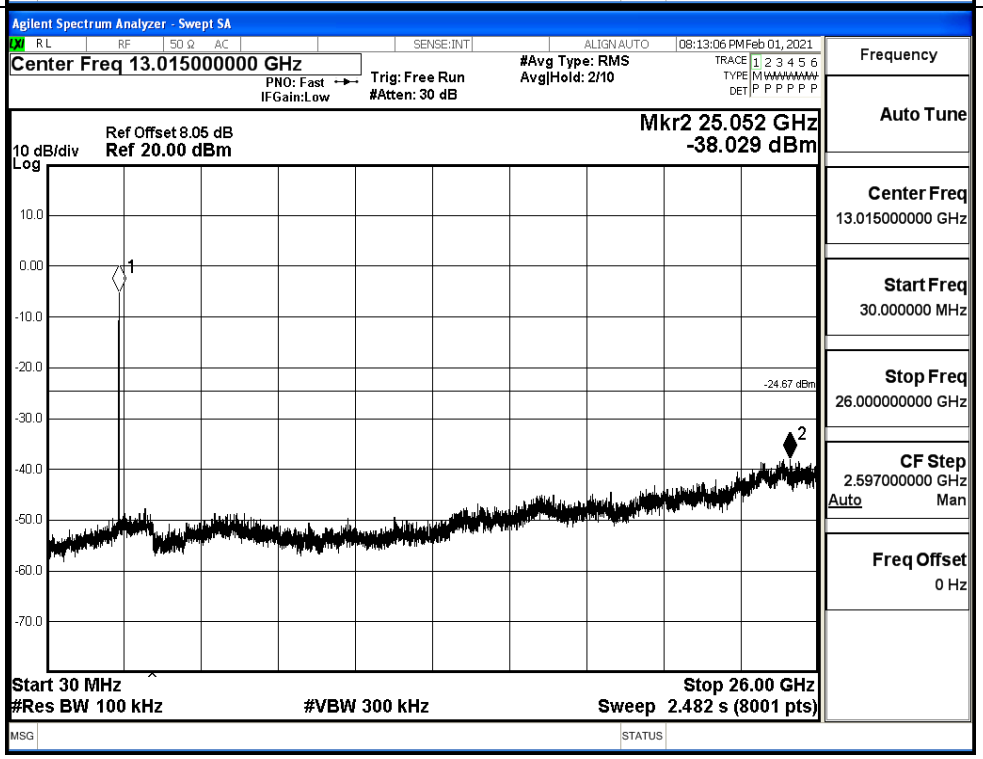
11N40SISO_HCH_Graphs	
Pref/11N40 SISO/HCH	
Puw/11N40 SISO/HCH	

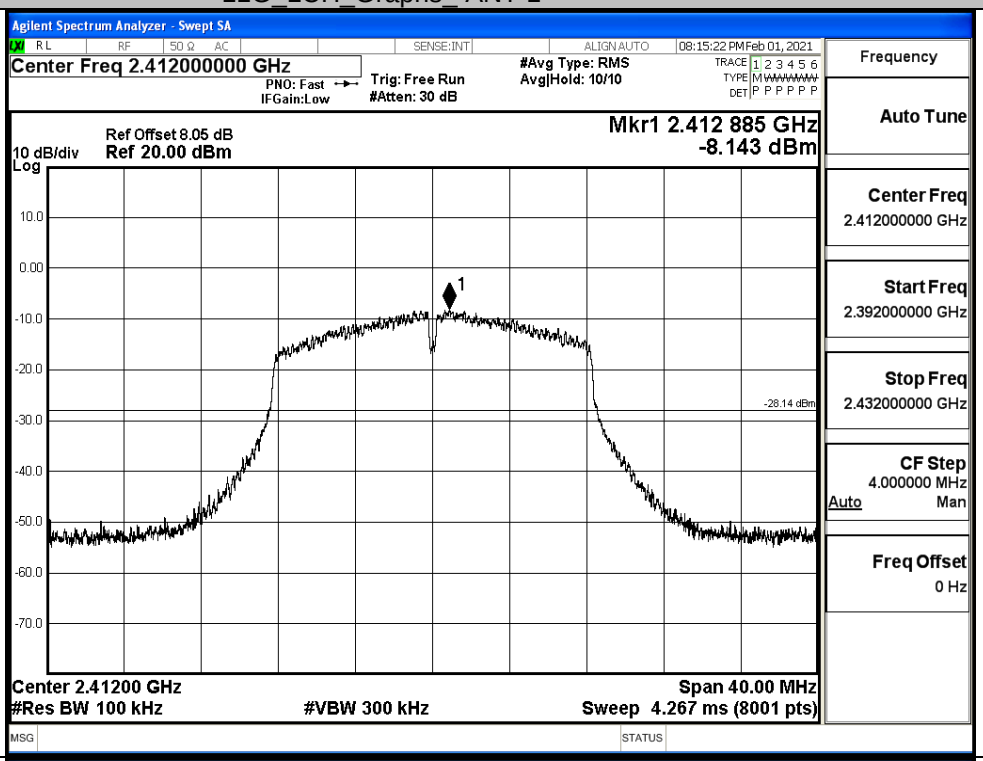
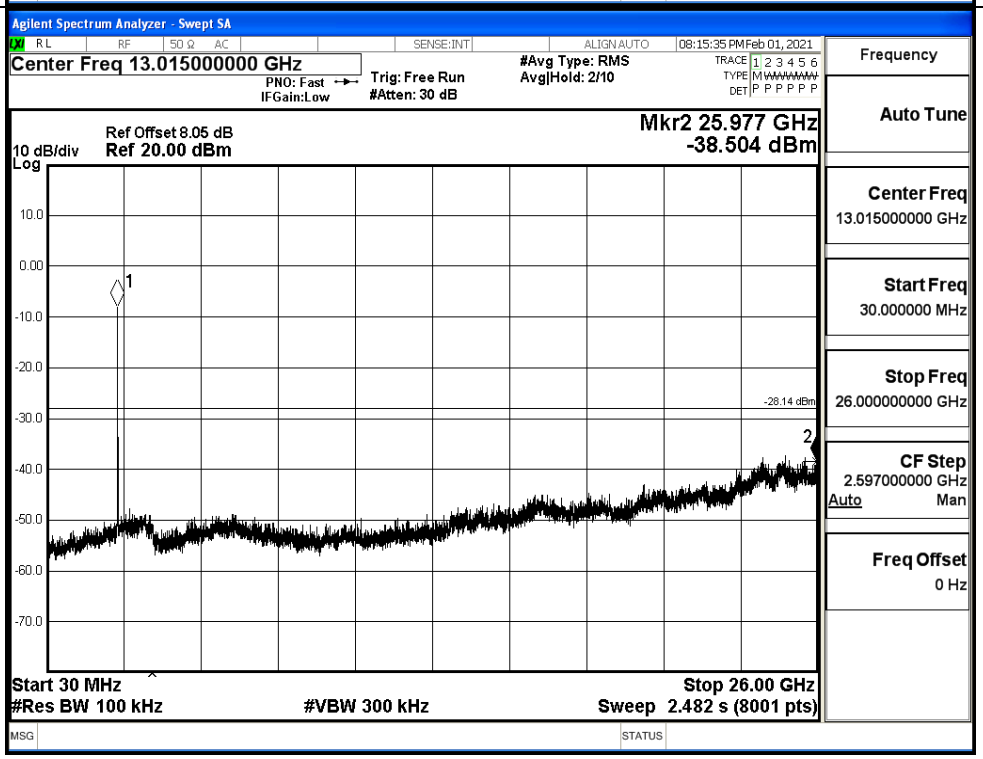
ANT 1

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-5.818	-37.083	-25.818	PASS
	MCH	-5.206	-38.153	-25.206	PASS
	HCH	-4.674	-38.029	-24.674	PASS
11G	LCH	-8.143	-38.504	-28.143	PASS
	MCH	-4.017	-38.179	-24.017	PASS
	HCH	-4.656	-37.782	-24.656	PASS
11N20 SISO	LCH	-7.734	-37.899	-27.734	PASS
	MCH	-5.139	-38.127	-25.139	PASS
	HCH	-5.008	-38.122	-25.008	PASS
11N40 SISO	LCH	-10.139	-36.862	-30.139	PASS
	MCH	-8.266	-37.949	-28.266	PASS
	HCH	-7.762	-37.746	-27.762	PASS

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_ ANT 1	
Pref/11G/LCH	
Puw/11G/LCH