Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Station

Trade Mark: N/A

Test Model: S1

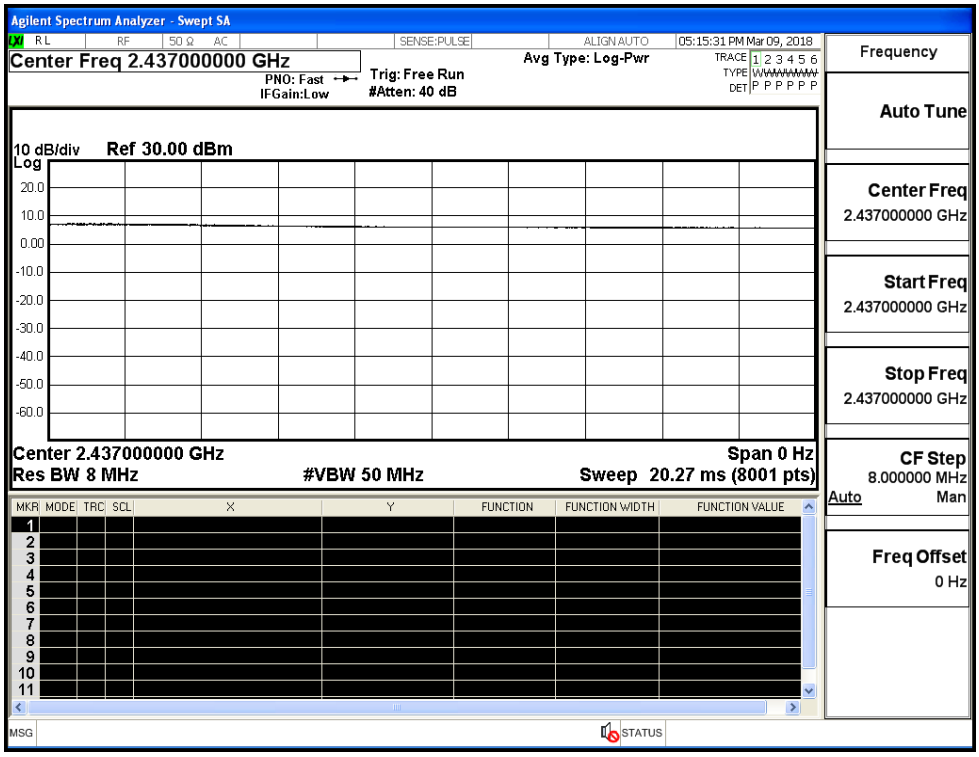
Environmental Conditions

Temperature:	22.1 ° C
Relative Humidity:	51.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Wilson Hong
Supervised by:	Jayden Zhuo

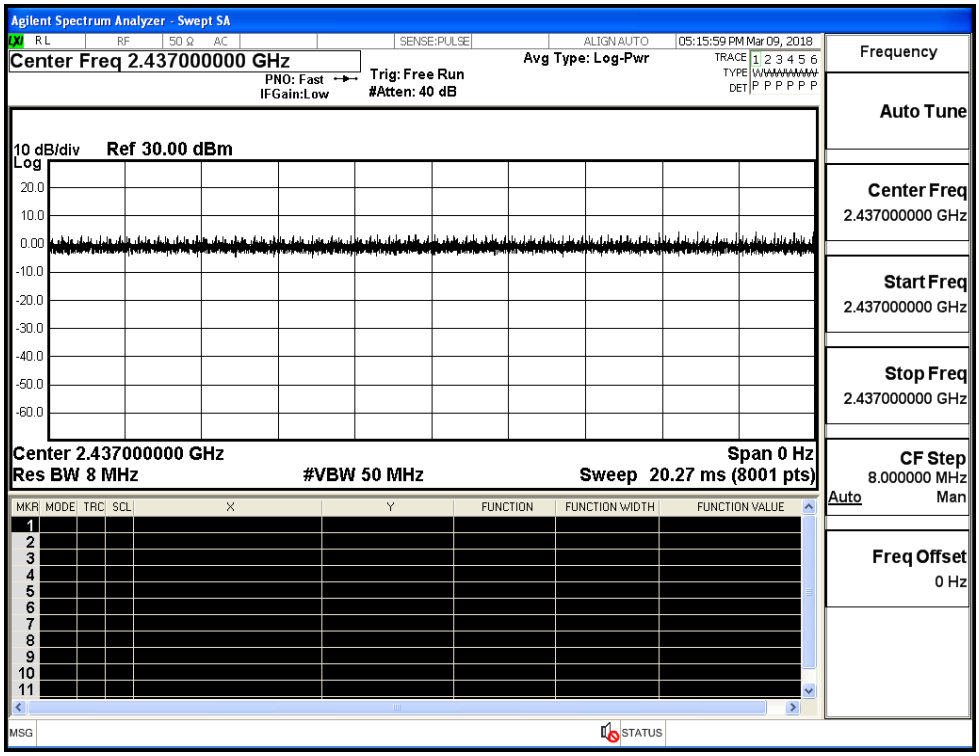
B.1 Duty Cycle

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

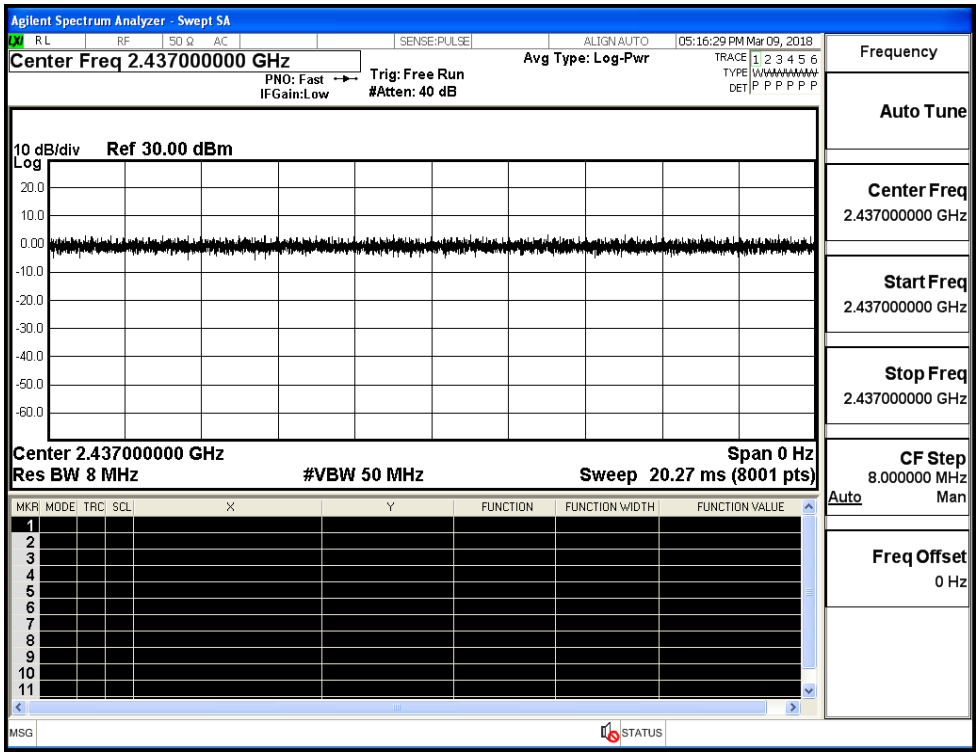
Duty Cycle_11B_2437_Ant0



Duty Cycle_11G_2437_Ant0

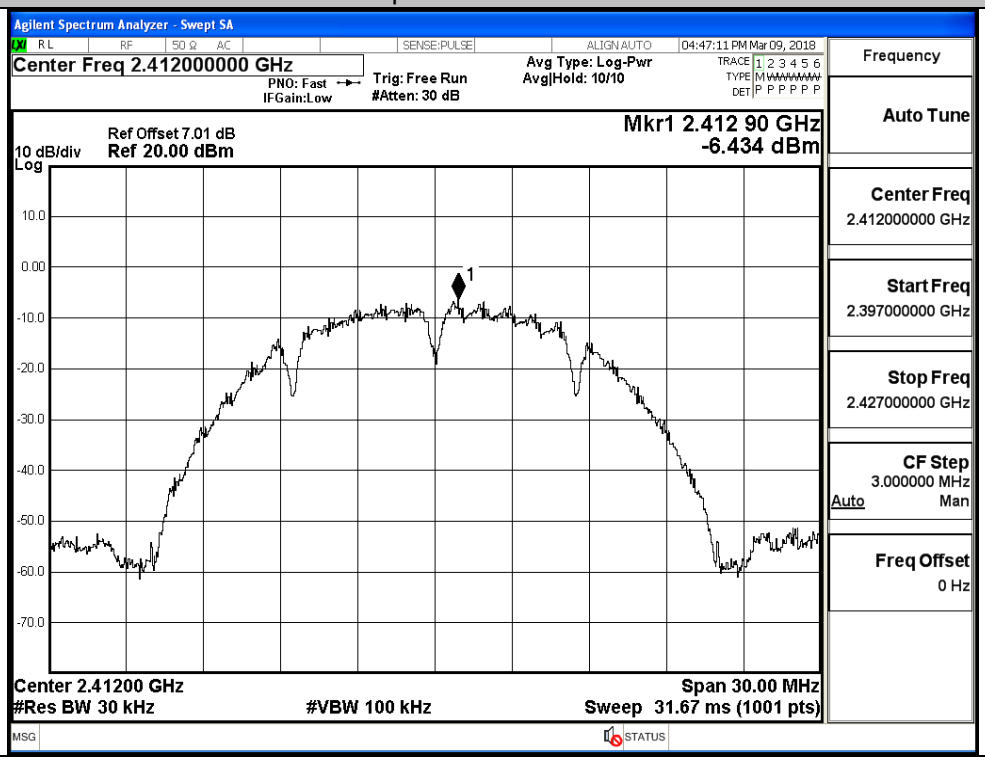


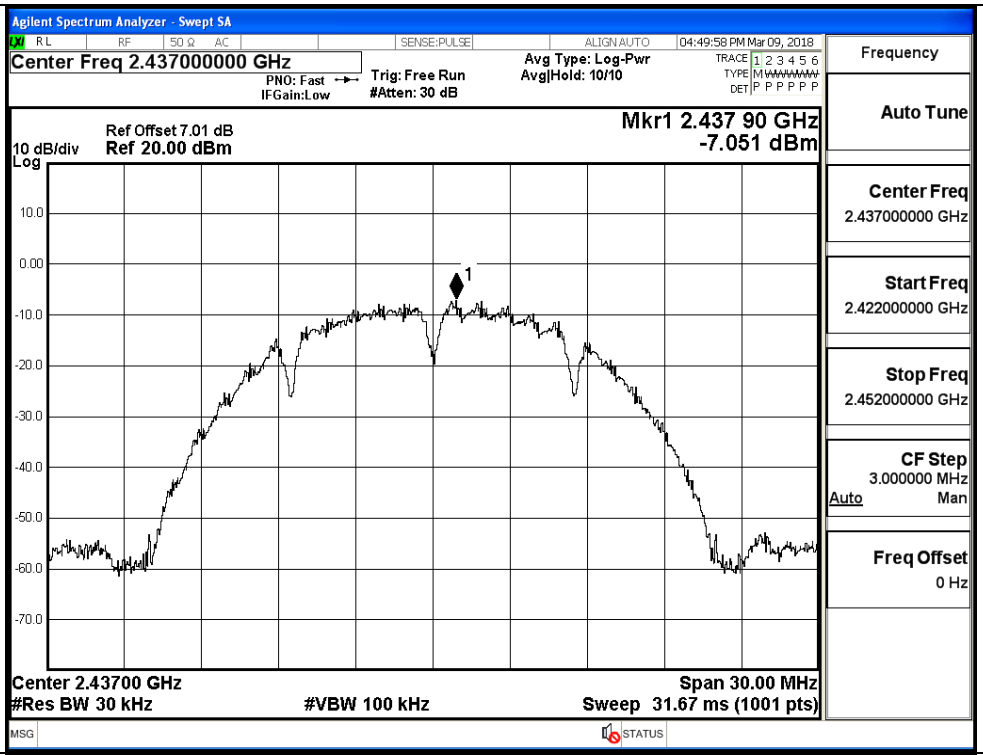
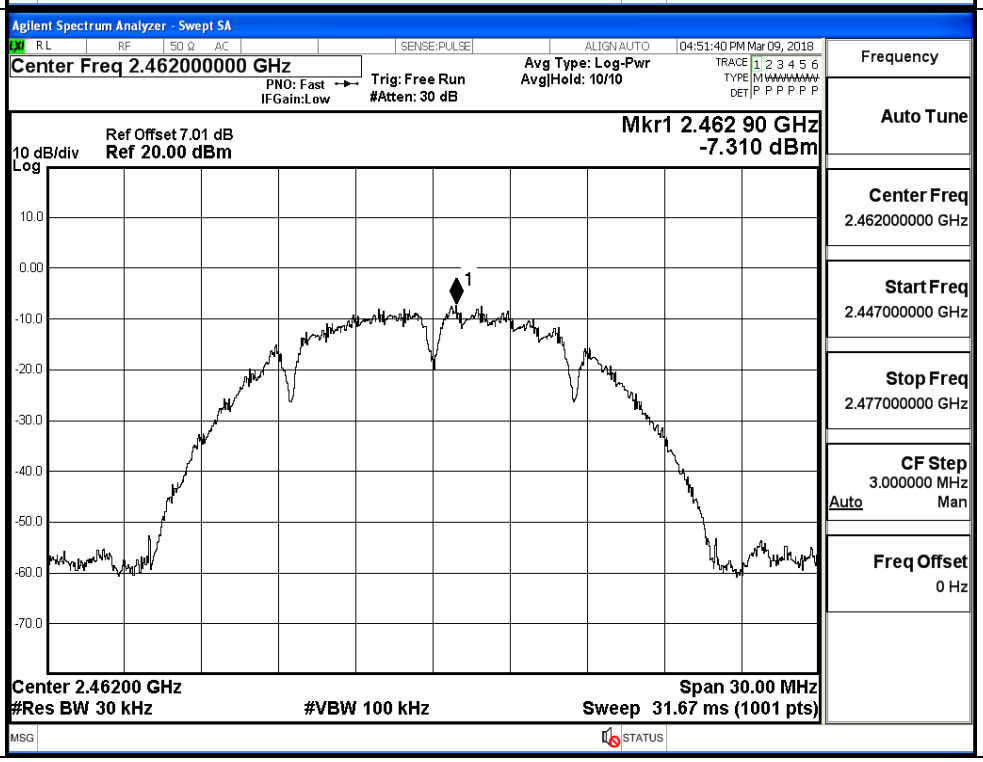
Duty Cycle_11N20SISO_2437_Ant0

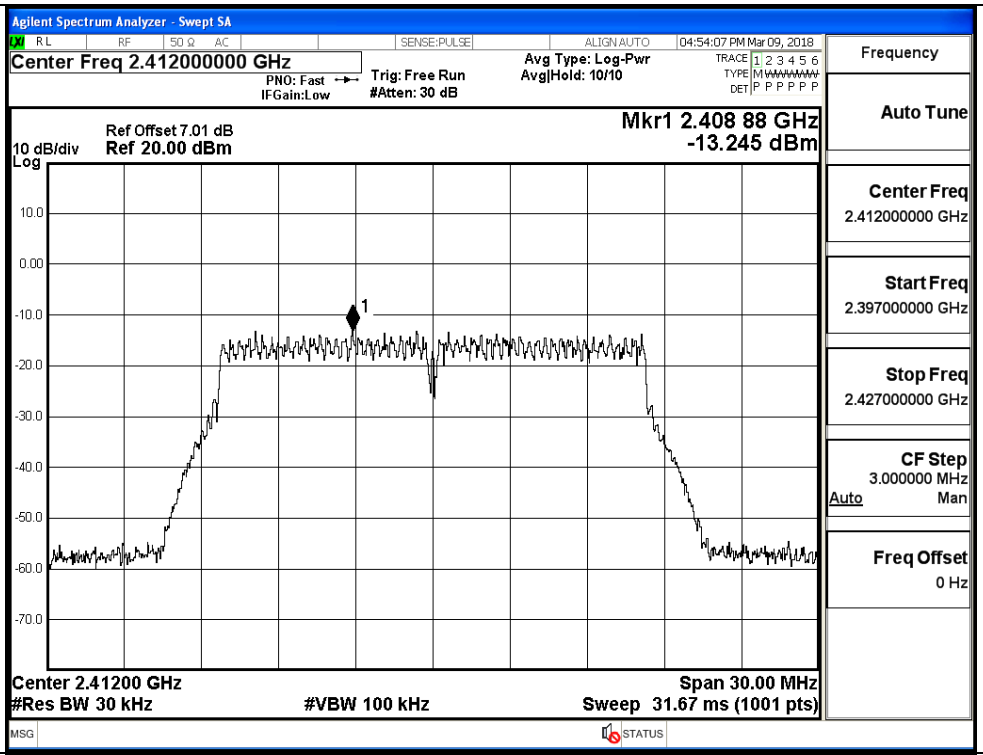
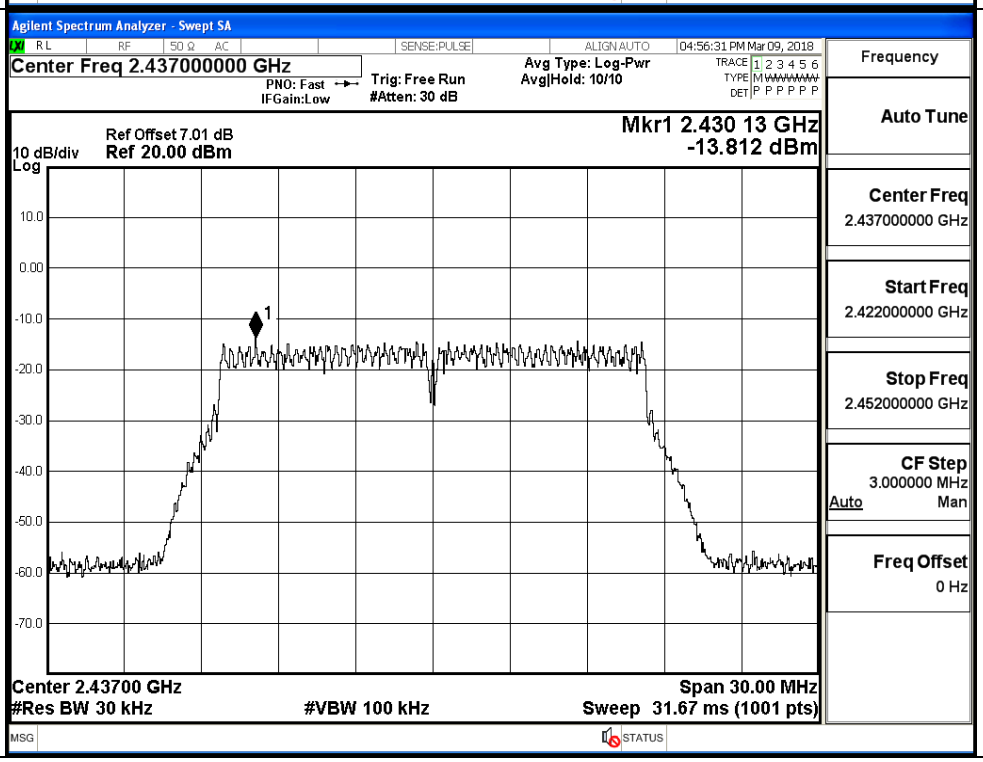


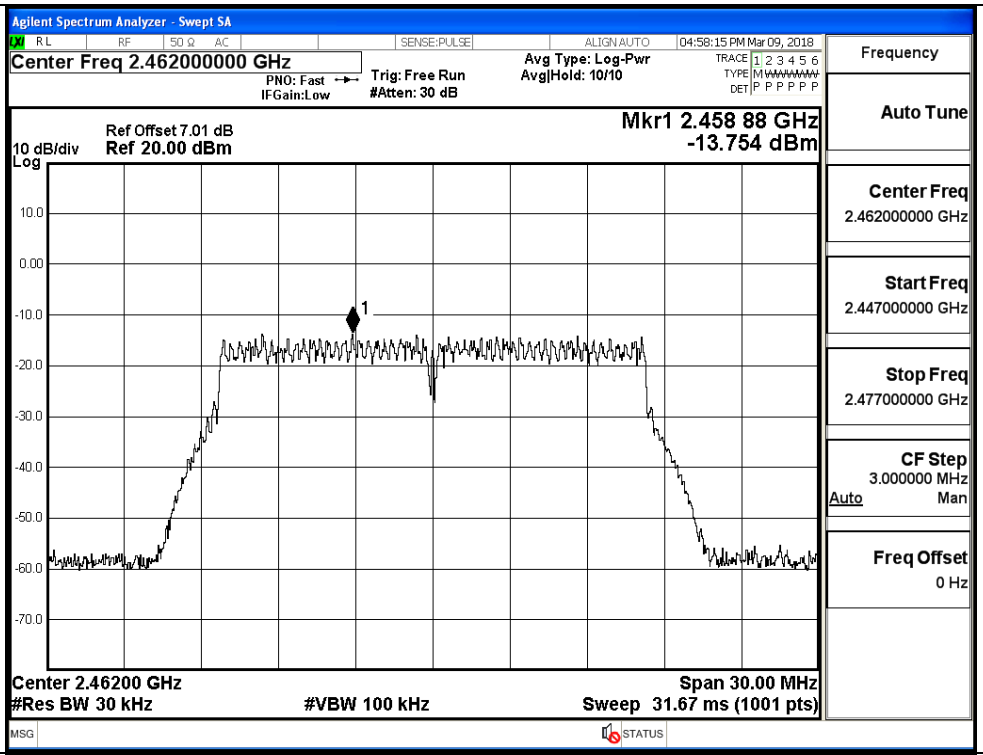
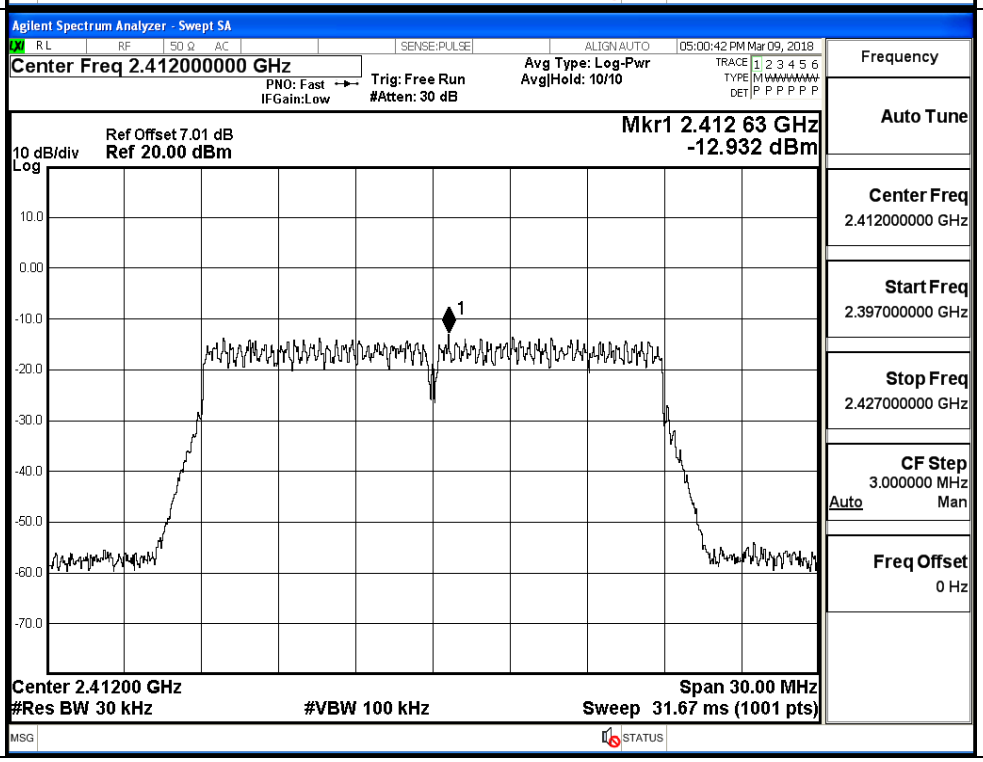
B.2 Maximum Power Spectral Density

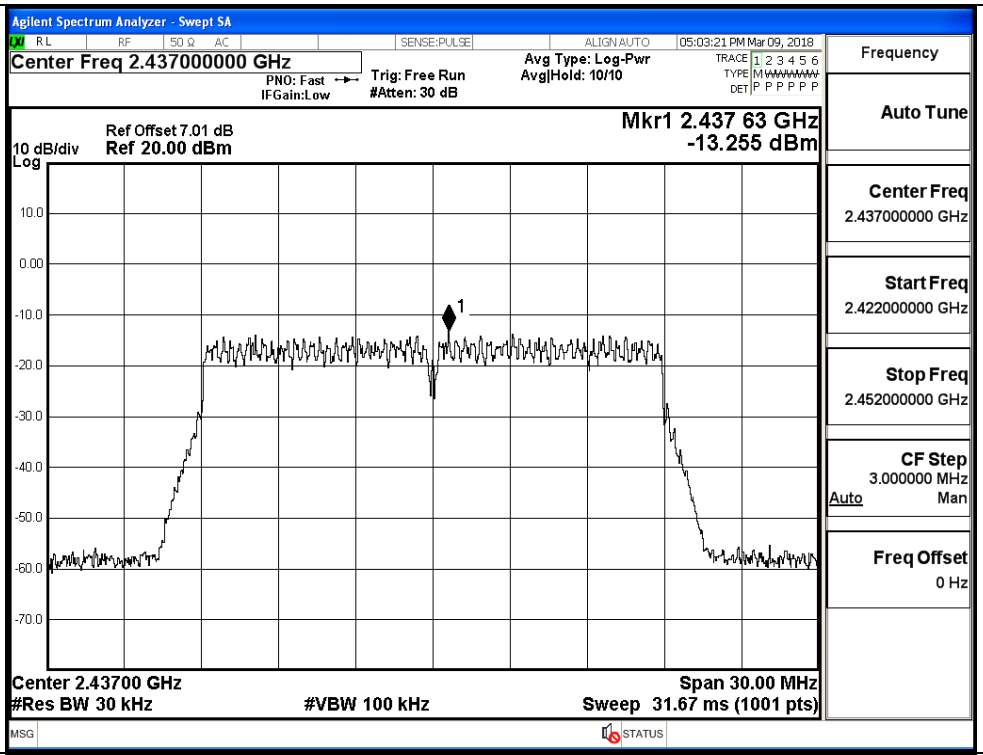
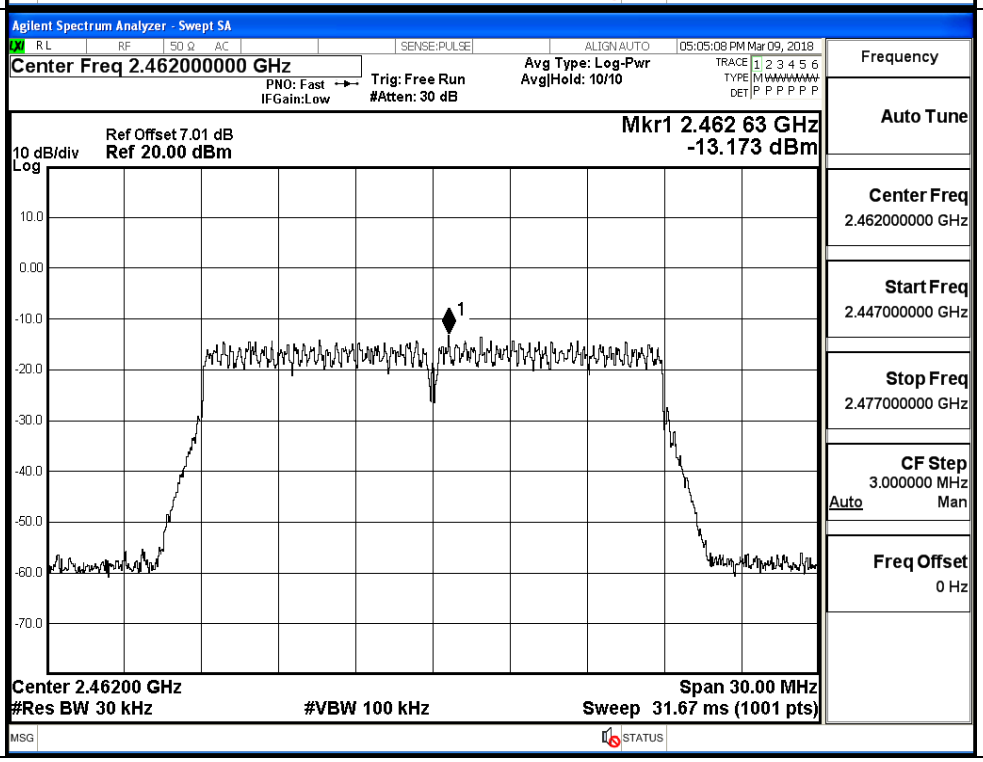
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-6.434	8	PASS
	MCH	-7.051	8	PASS
	HCH	-7.310	8	PASS
11G	LCH	-13.245	8	PASS
	MCH	-13.812	8	PASS
	HCH	-13.754	8	PASS
11N20SISO	LCH	-12.932	8	PASS
	MCH	-13.255	8	PASS
	HCH	-13.173	8	PASS

Test Graphs	
11B/LCH	

11B/MCH		
11B/HCH		

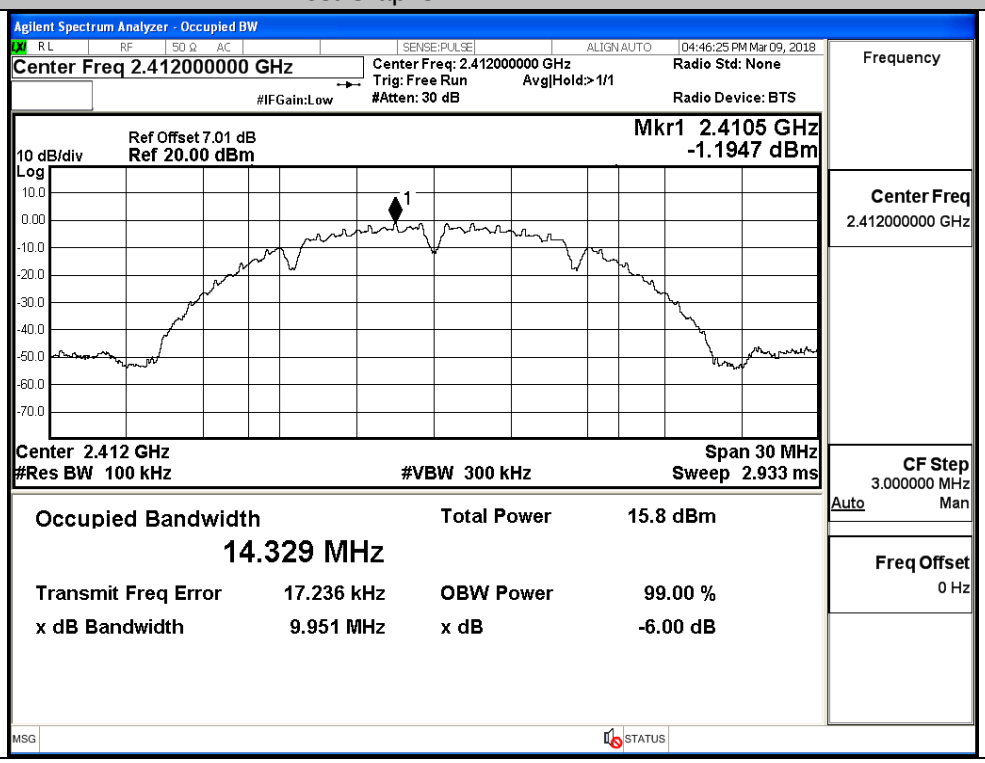
11G/LCH		
11G/MCH		

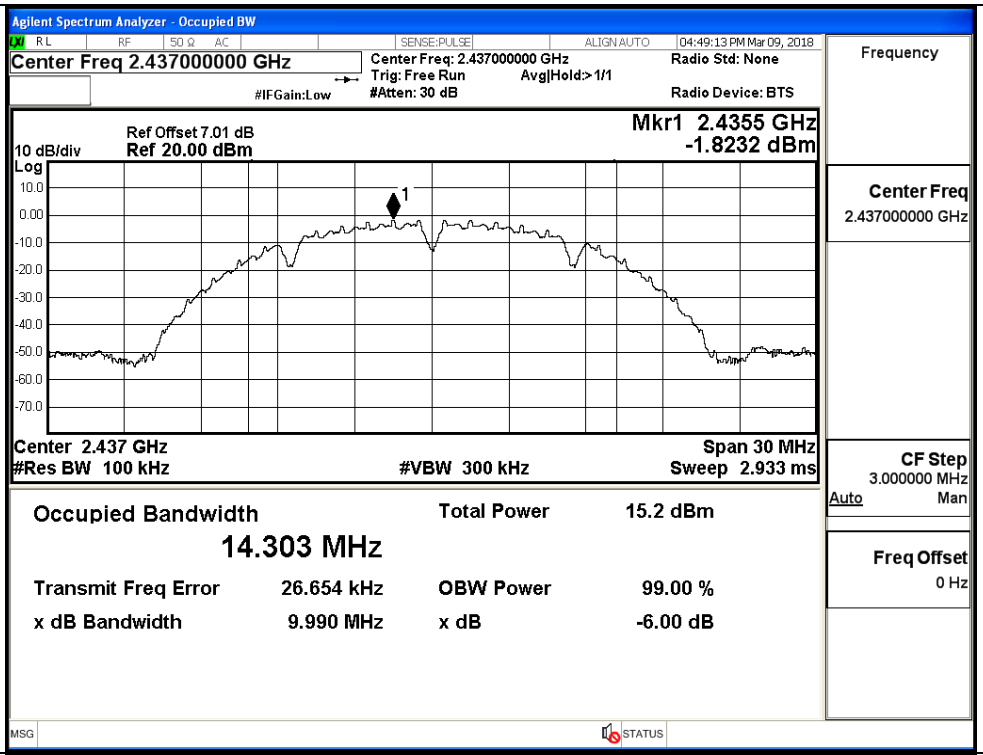
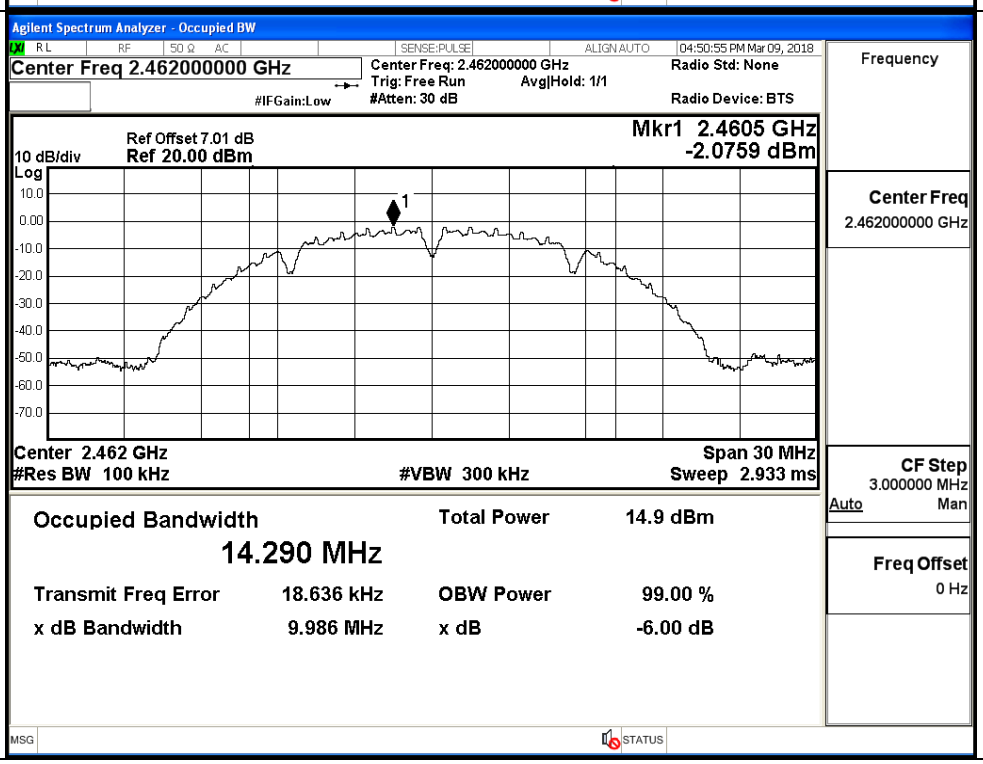
11G/HCH		
11N20SISO/LCH		

11N20SISO/MCH		
11N20SISO/HCH		

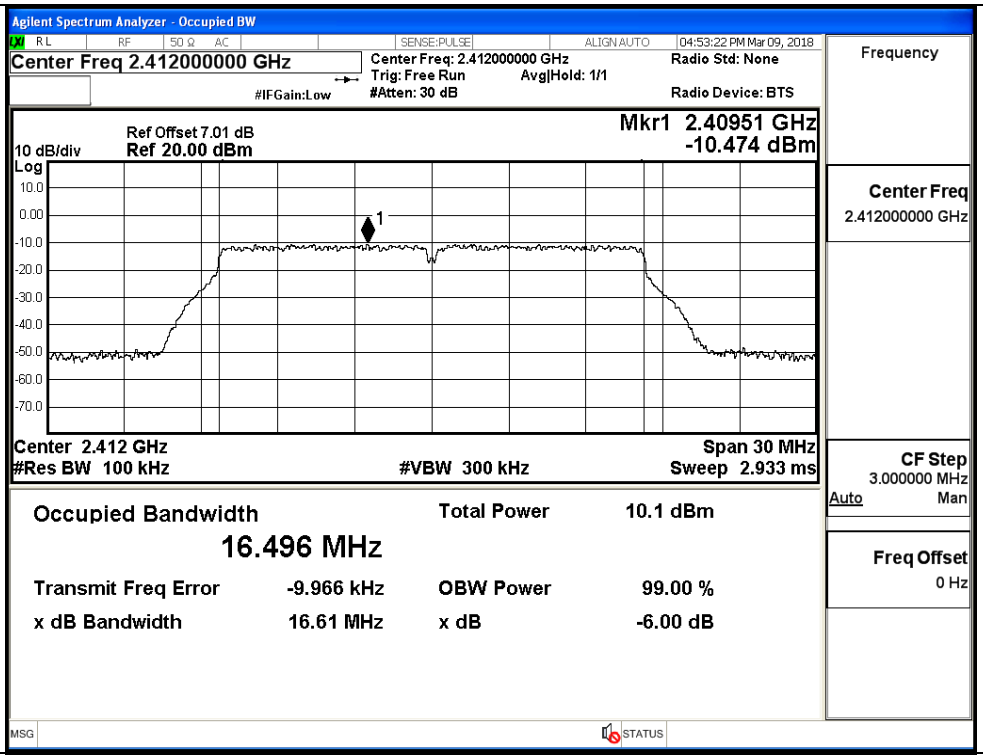
B.3 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.951	≥0.5	PASS
	MCH	9.990	≥0.5	PASS
	HCH	9.986	≥0.5	PASS
11G	LCH	16.61	≥0.5	PASS
	MCH	16.62	≥0.5	PASS
	HCH	16.62	≥0.5	PASS
11N20SISO	LCH	17.83	≥0.5	PASS
	MCH	17.84	≥0.5	PASS
	HCH	17.84	≥0.5	PASS

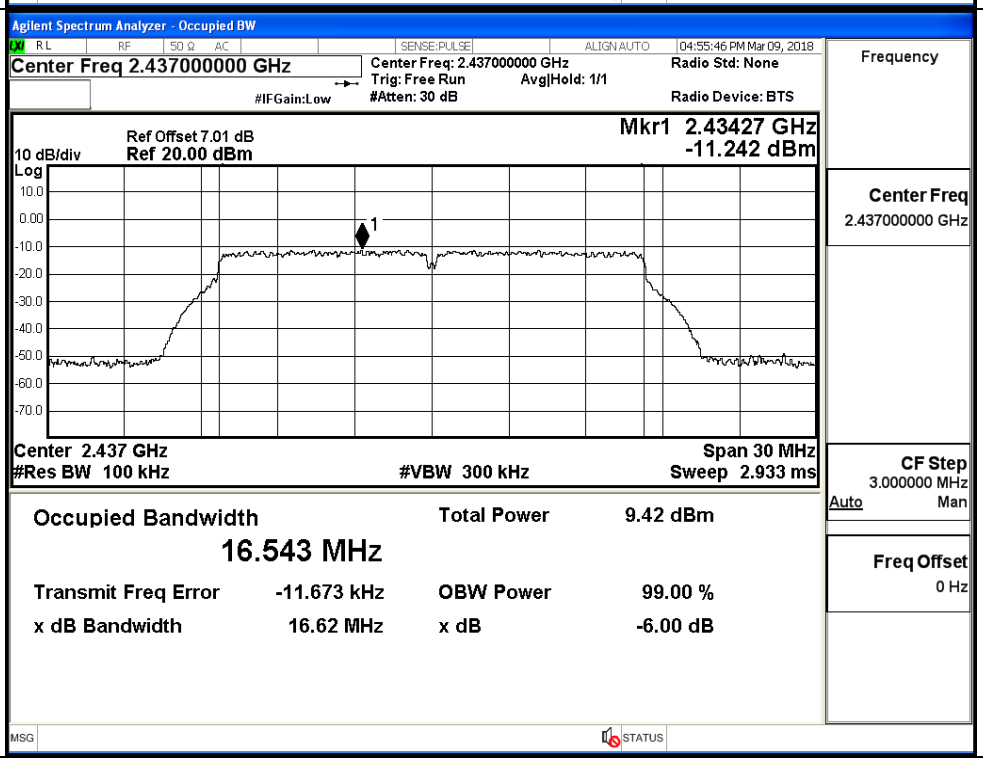
Test Graphs	
11B/LCH	

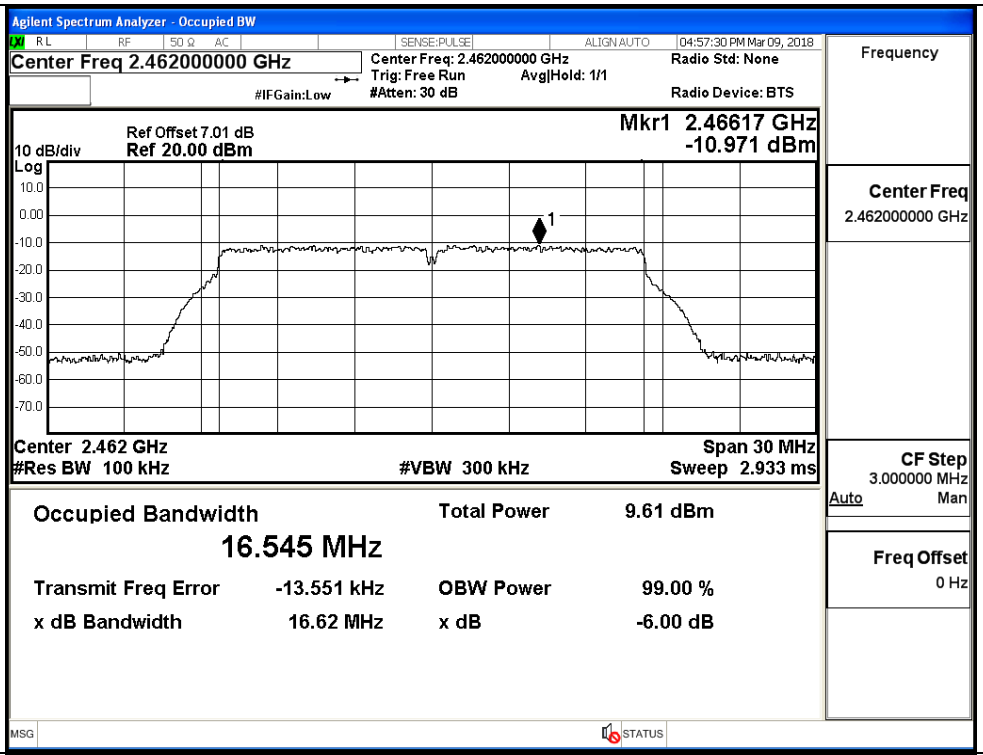
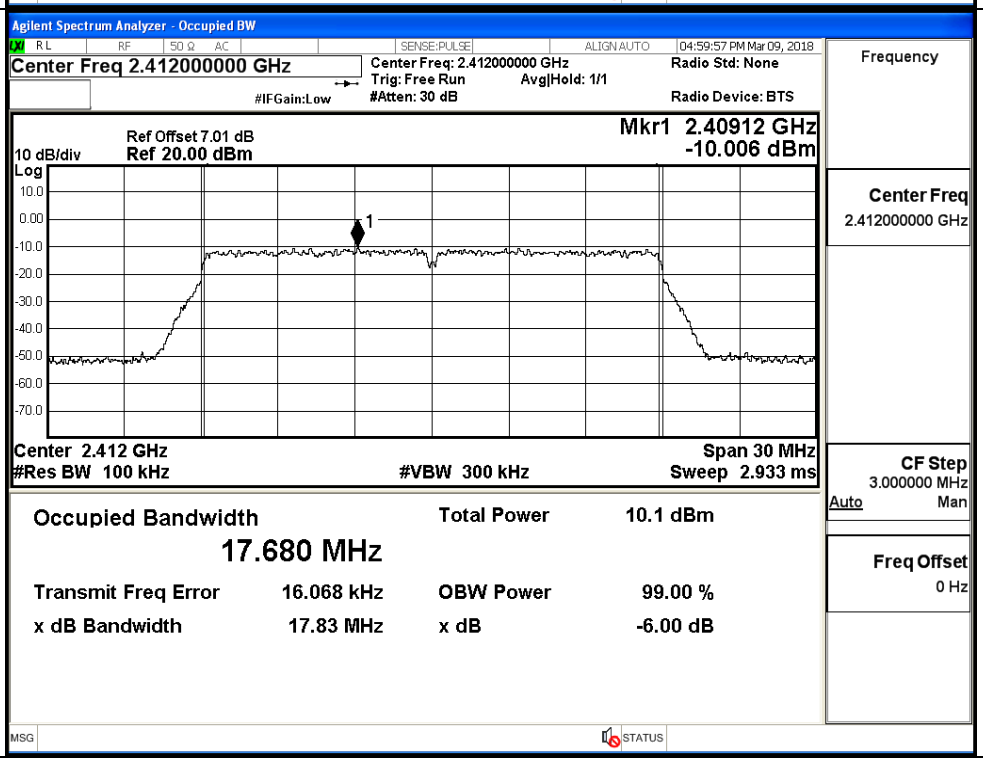
11B/MCH		
11B/HCH		

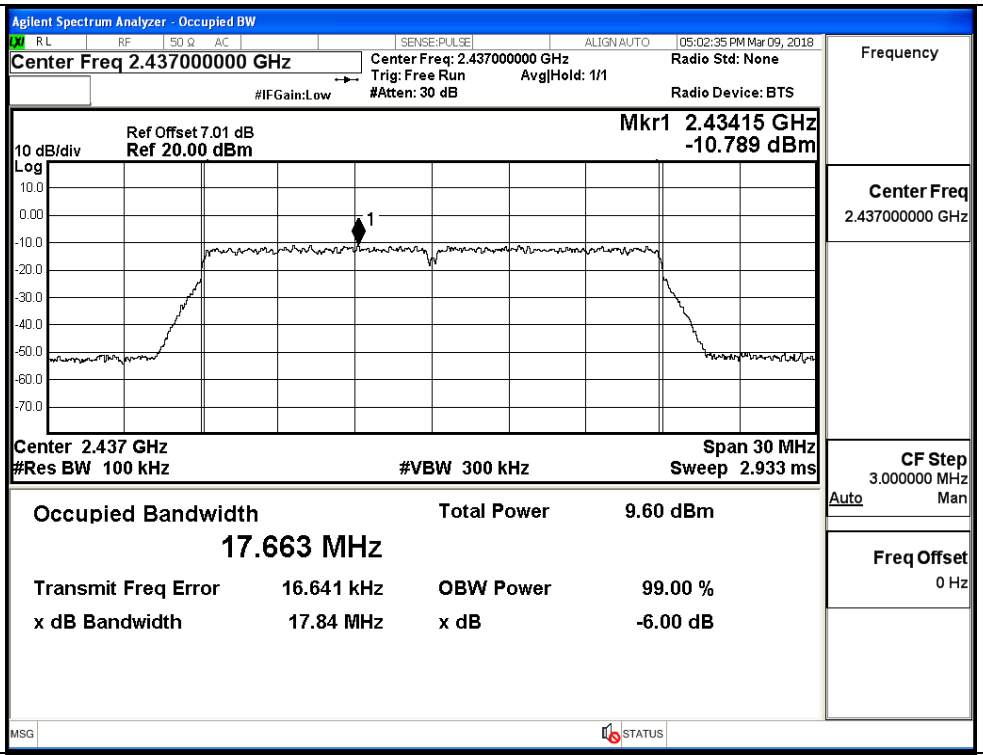
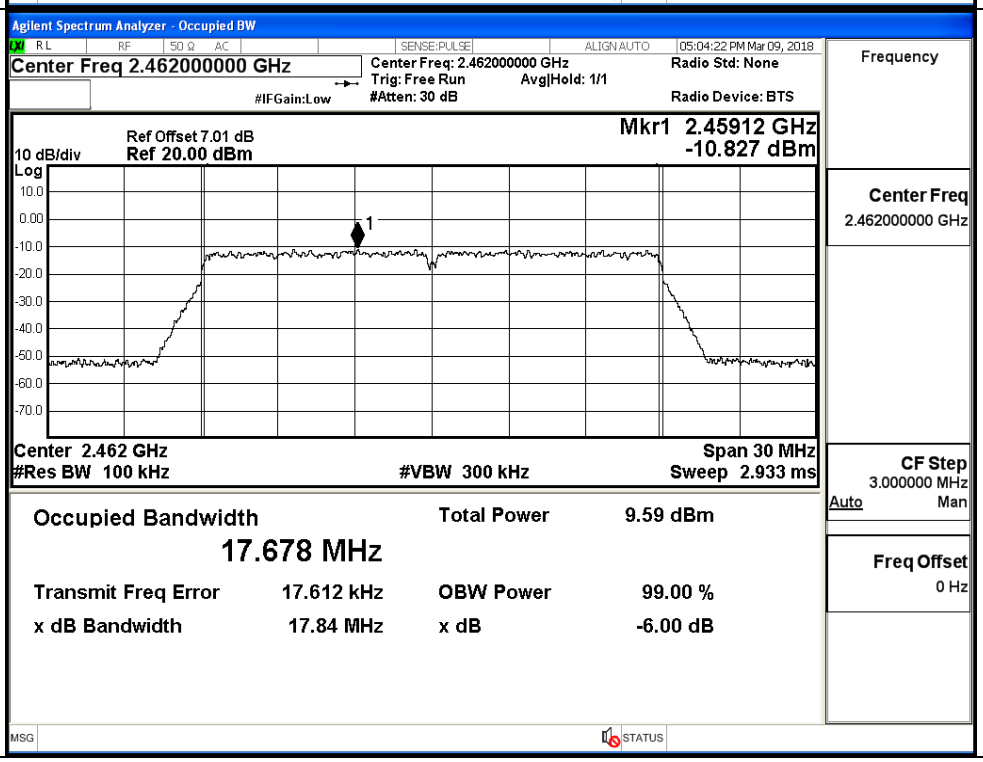
11G/LCH



11G/MCH

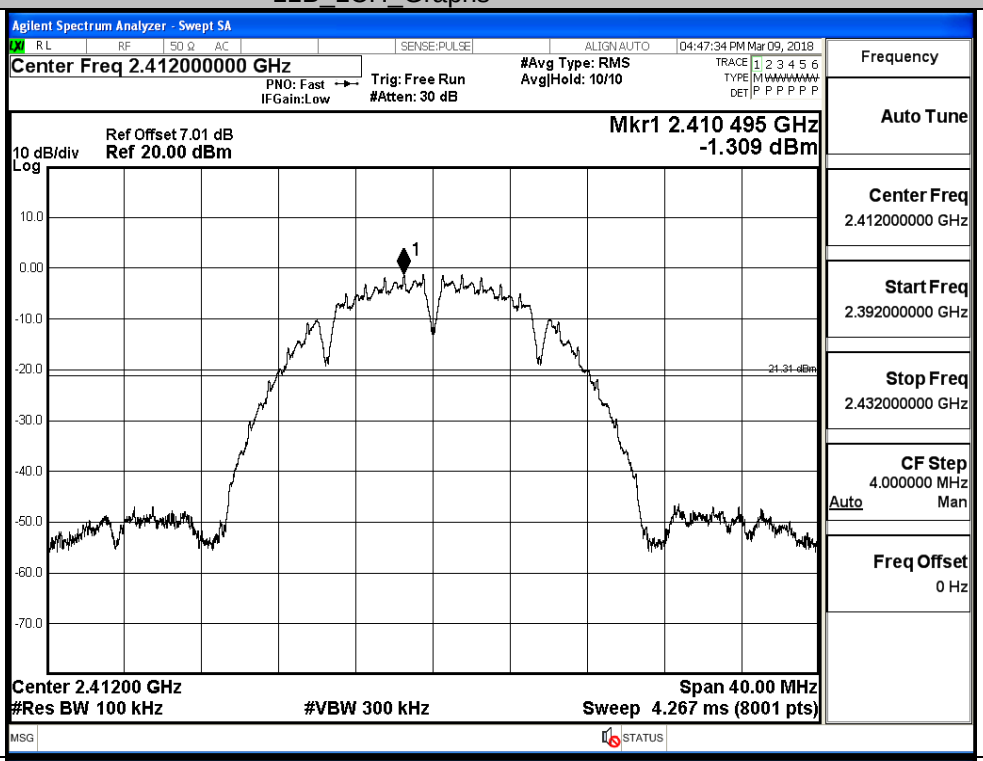
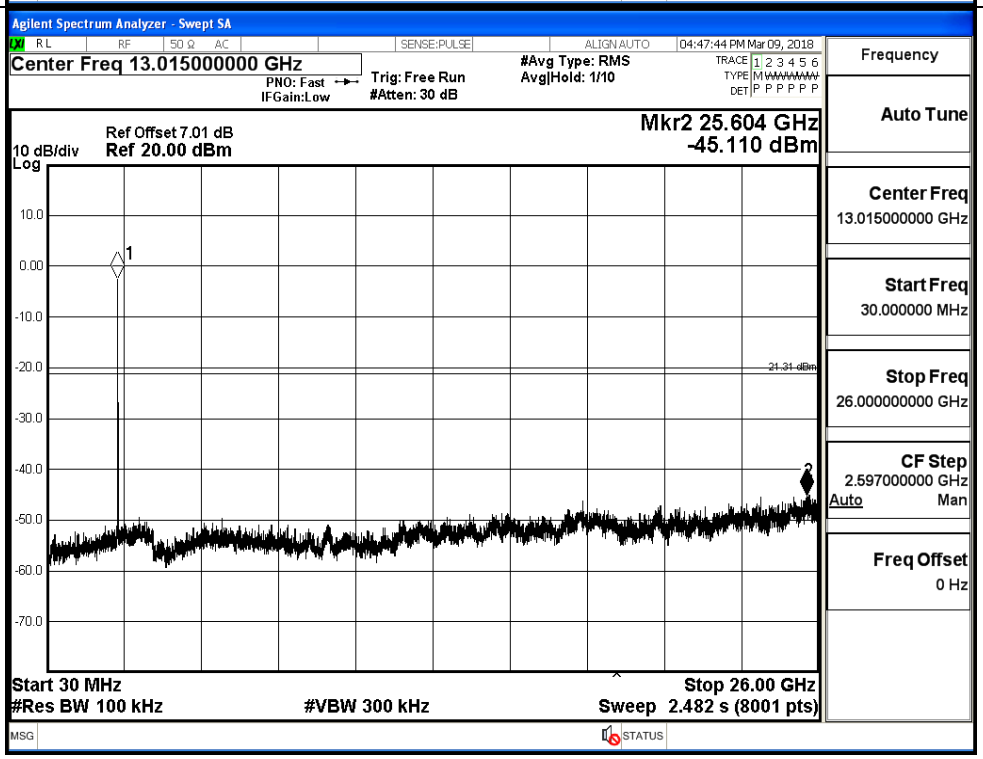


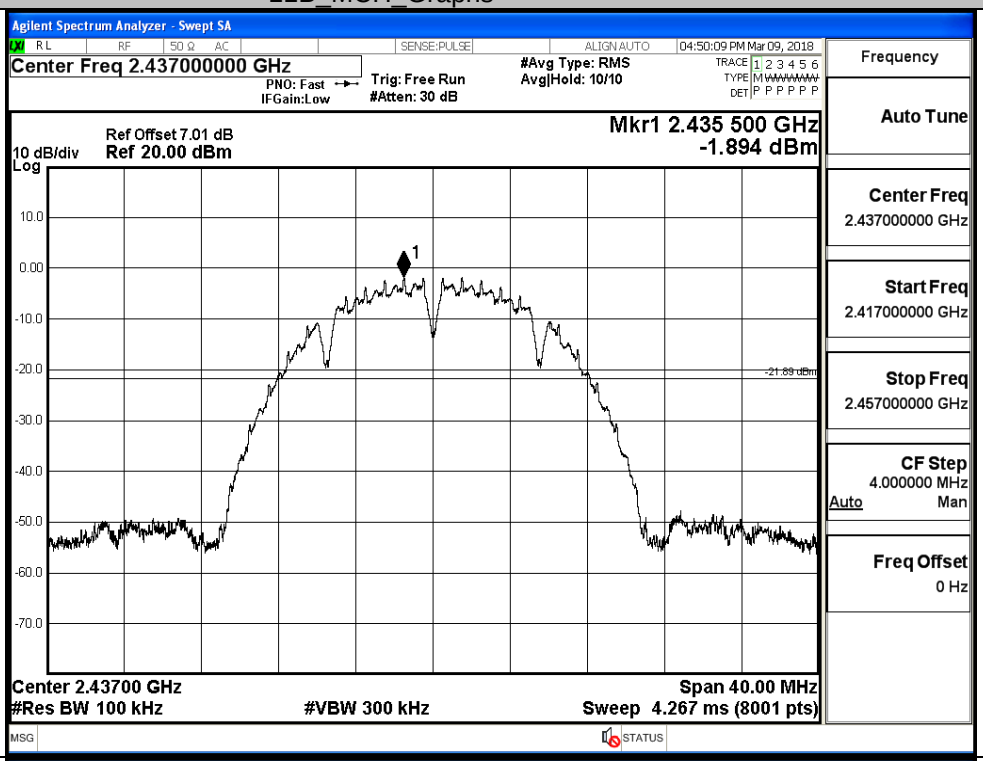
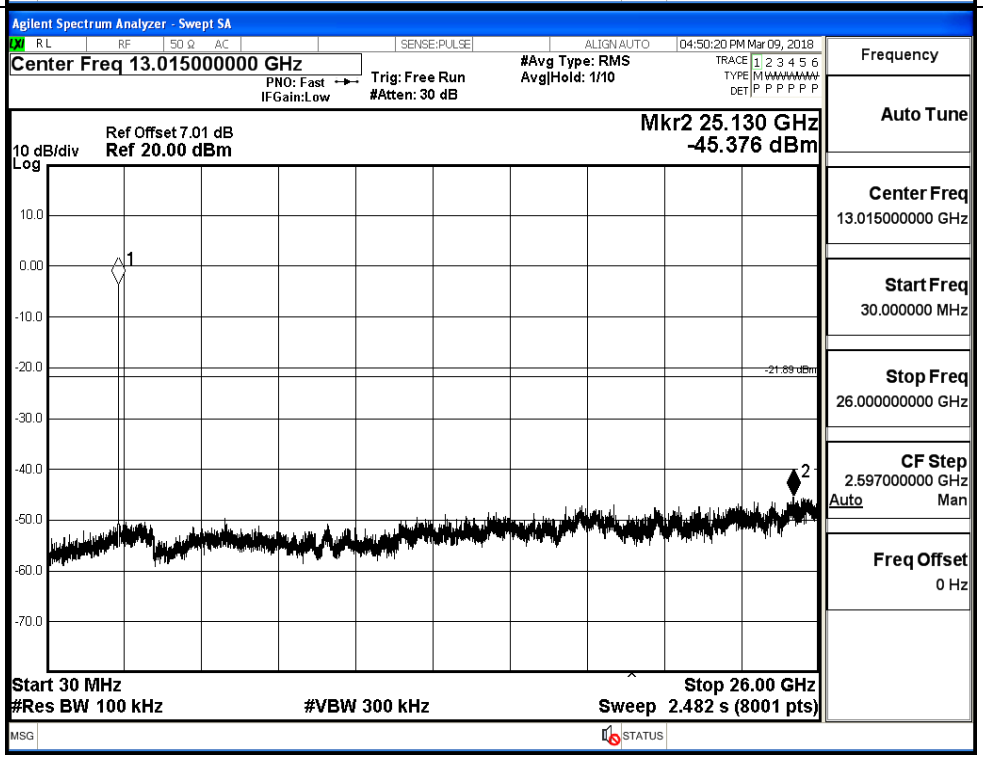
11G/HCH	
11N20SISO/LCH	

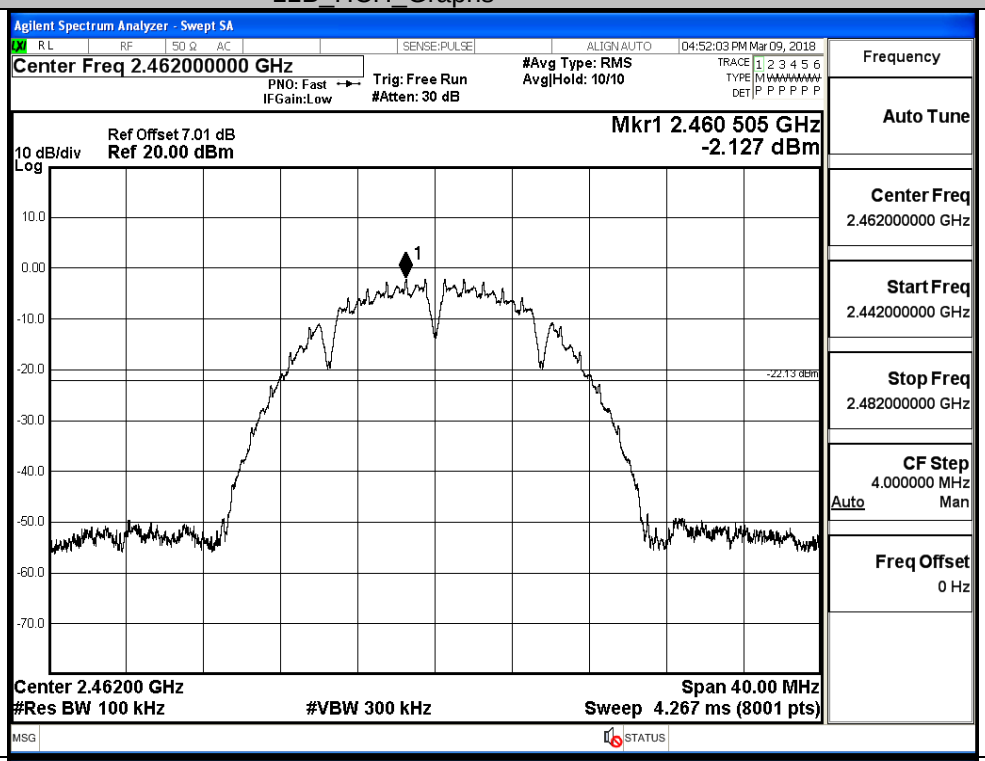
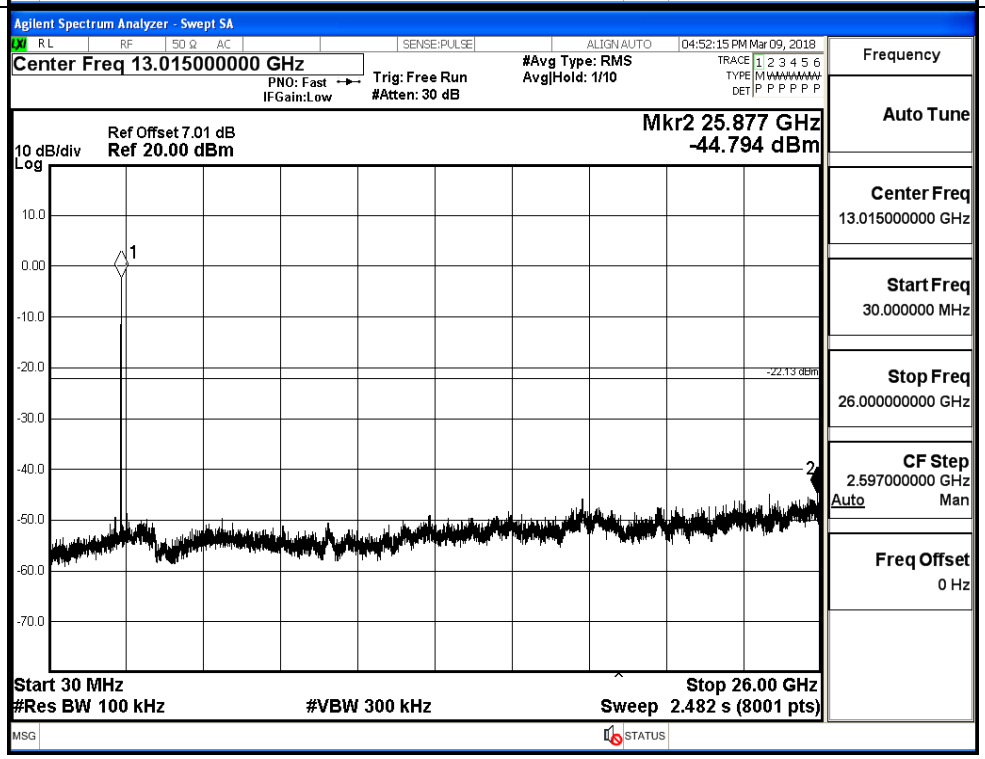
11N20SISO/MCH		
11N20SISO/HCH		

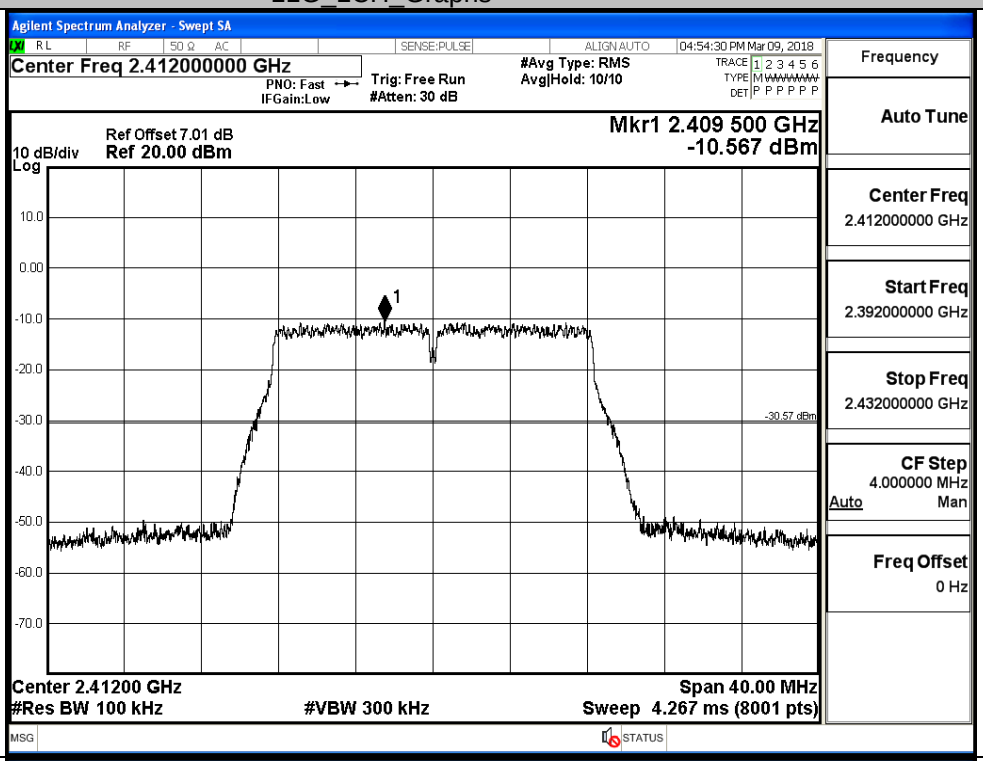
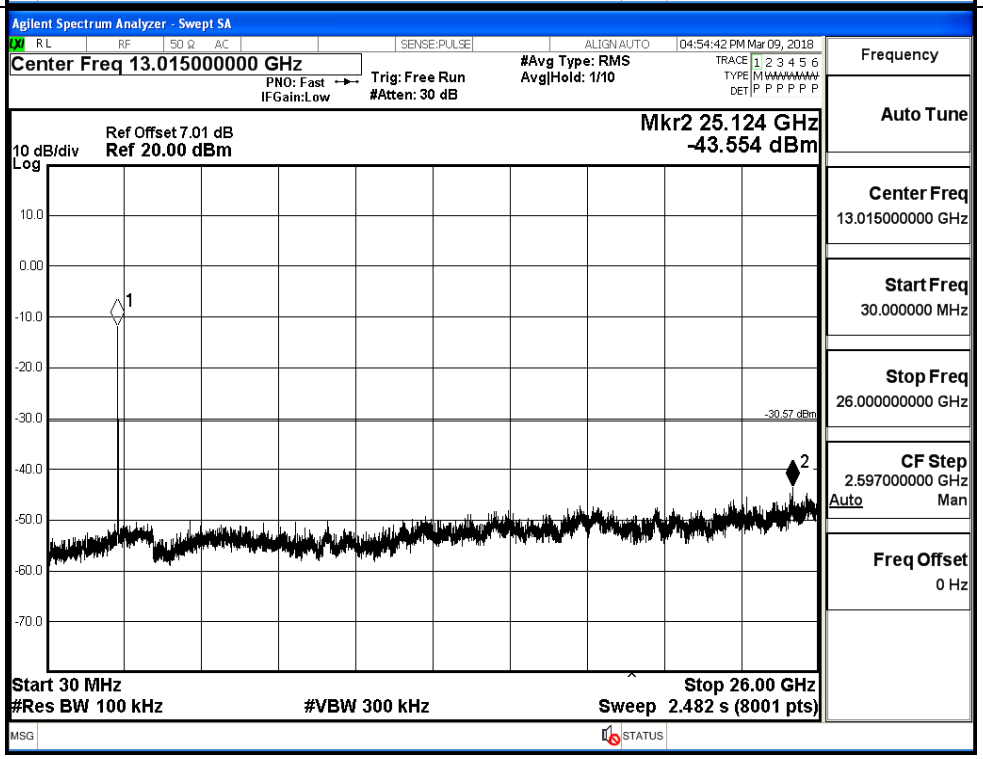
B.4 RF Conducted Spurious Emissions

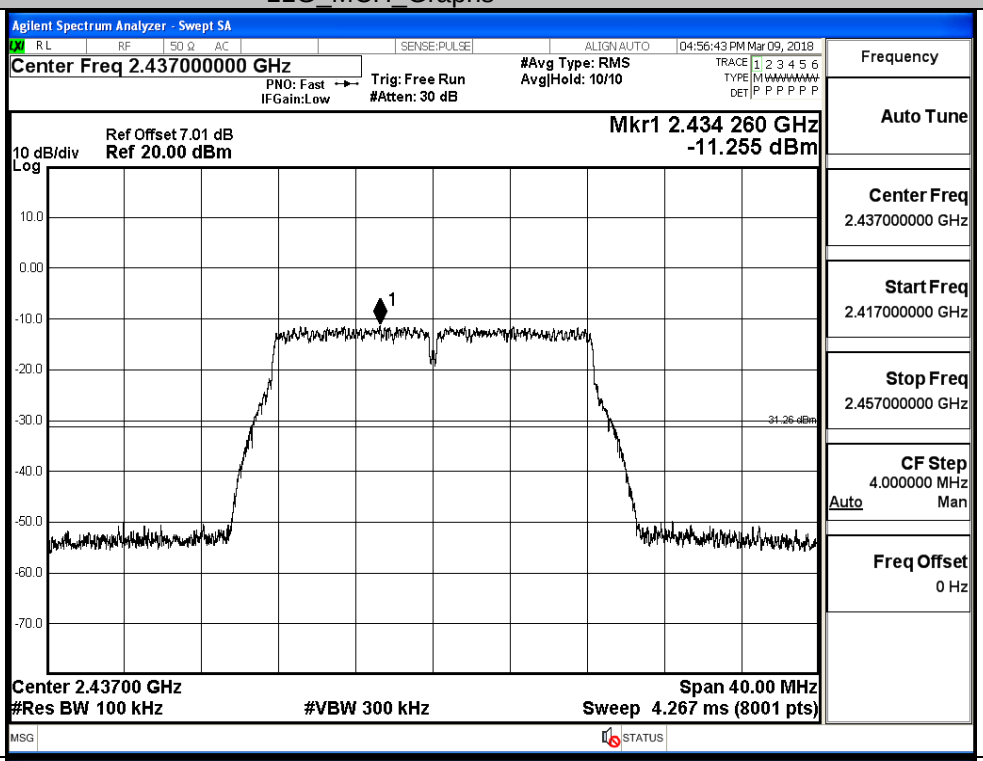
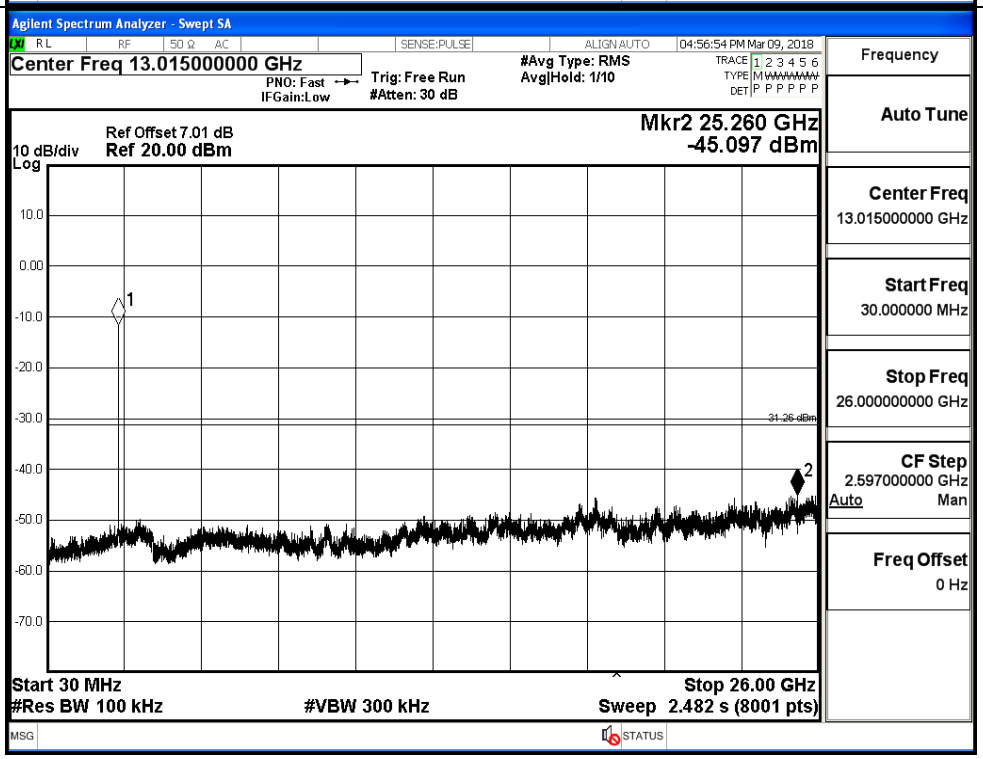
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-1.309	-45.110	-21.309	PASS
	MCH	-1.894	-45.376	-21.894	PASS
	HCH	-2.127	-44.794	-22.127	PASS
11G	LCH	-10.567	-43.554	-30.567	PASS
	MCH	-11.255	-45.097	-31.255	PASS
	HCH	-11.057	-45.155	-31.057	PASS
11N20 SISO	LCH	-10.081	-43.693	-30.081	PASS
	MCH	-10.834	-45.130	-30.834	PASS
	HCH	-10.974	-44.514	-30.974	PASS

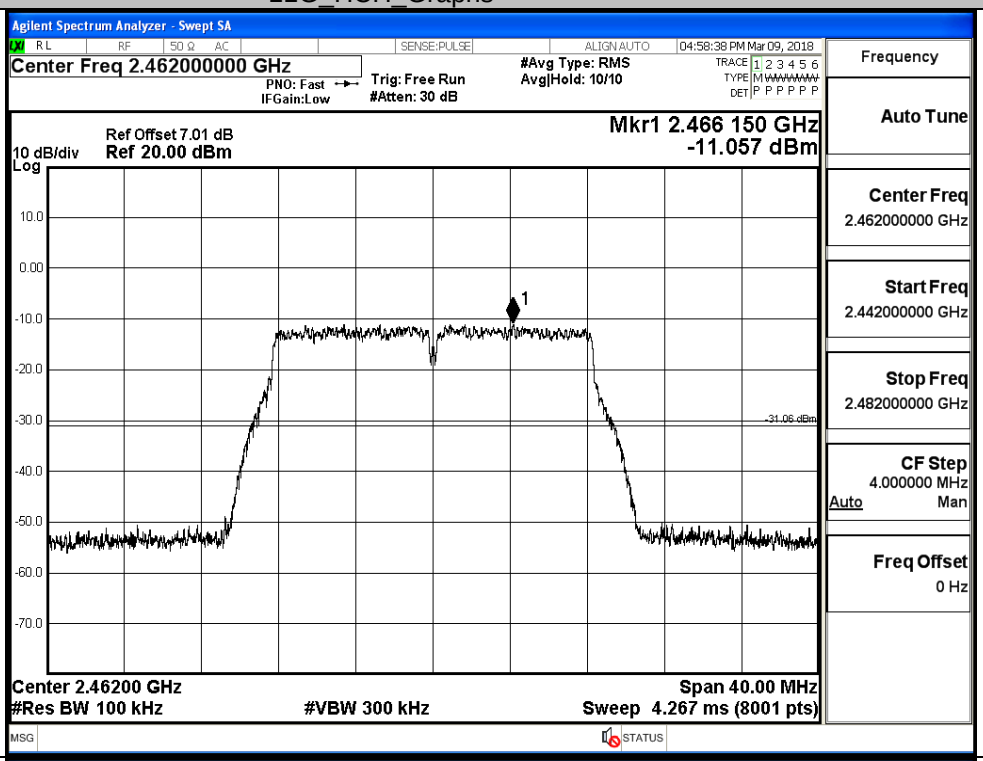
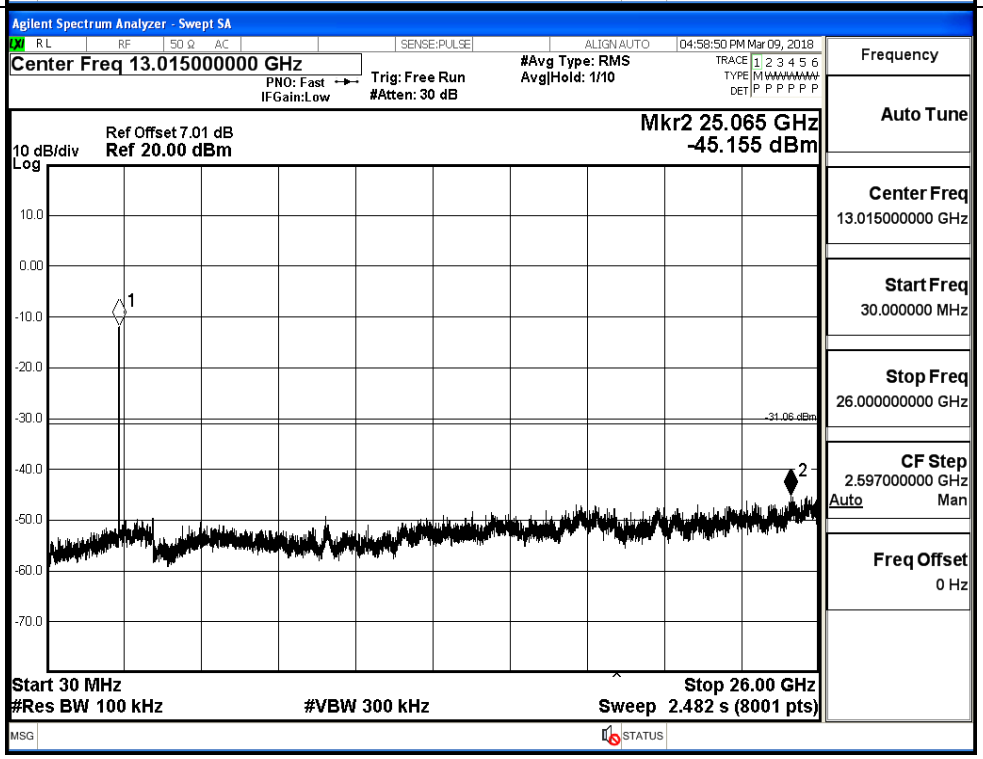
11B_LCH_Graphs		
Pref/11B/LCH		
Puw/11B/LCH		

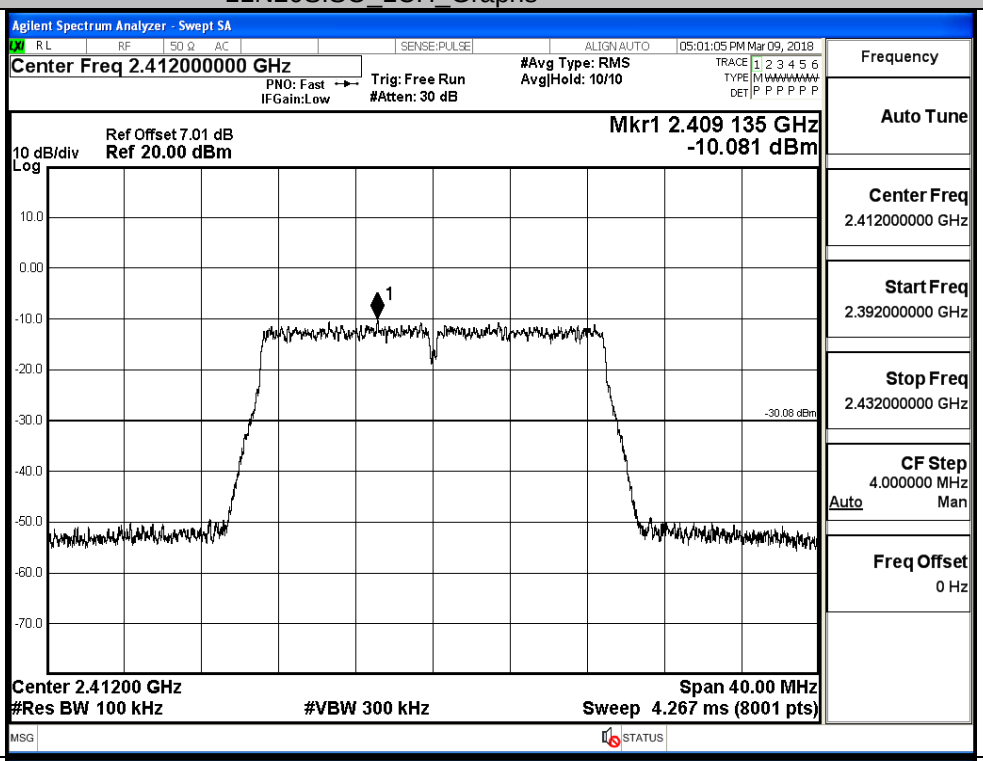
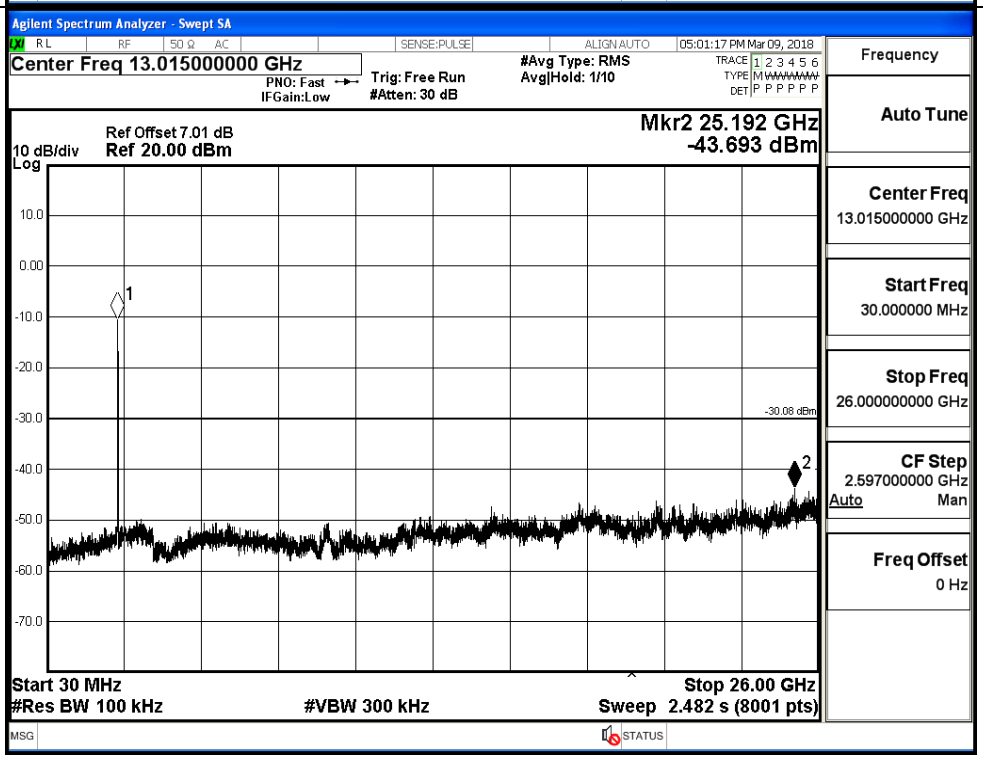
11B_MCH_Graphs		
Pref/11B/MCH		
Puw/11B/MCH		

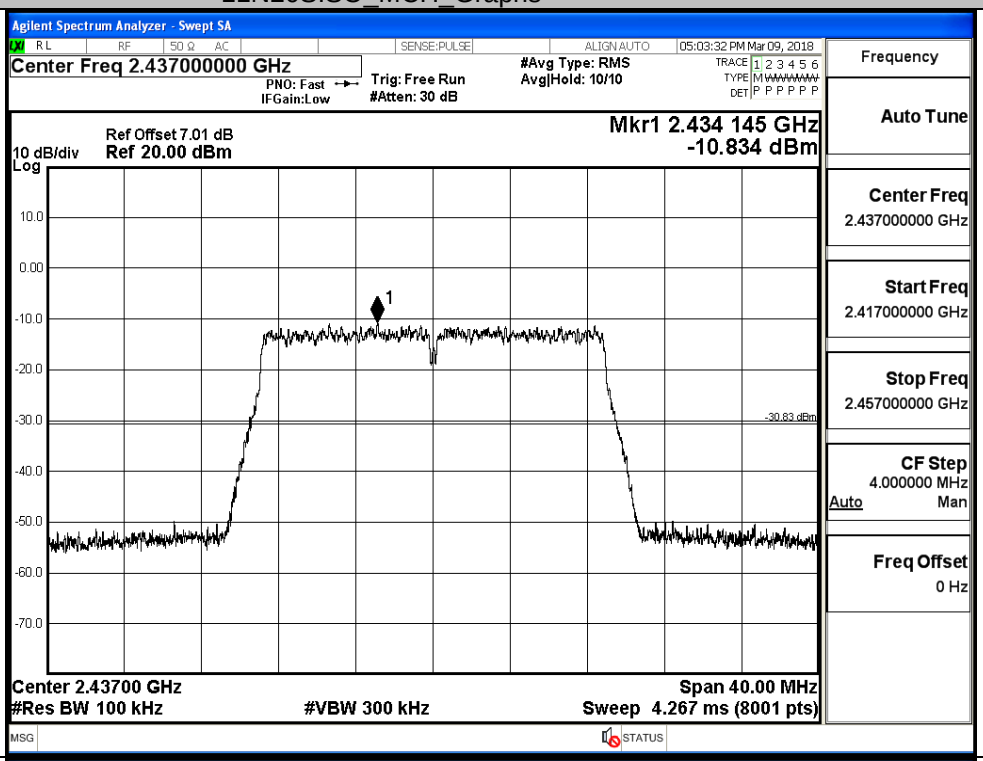
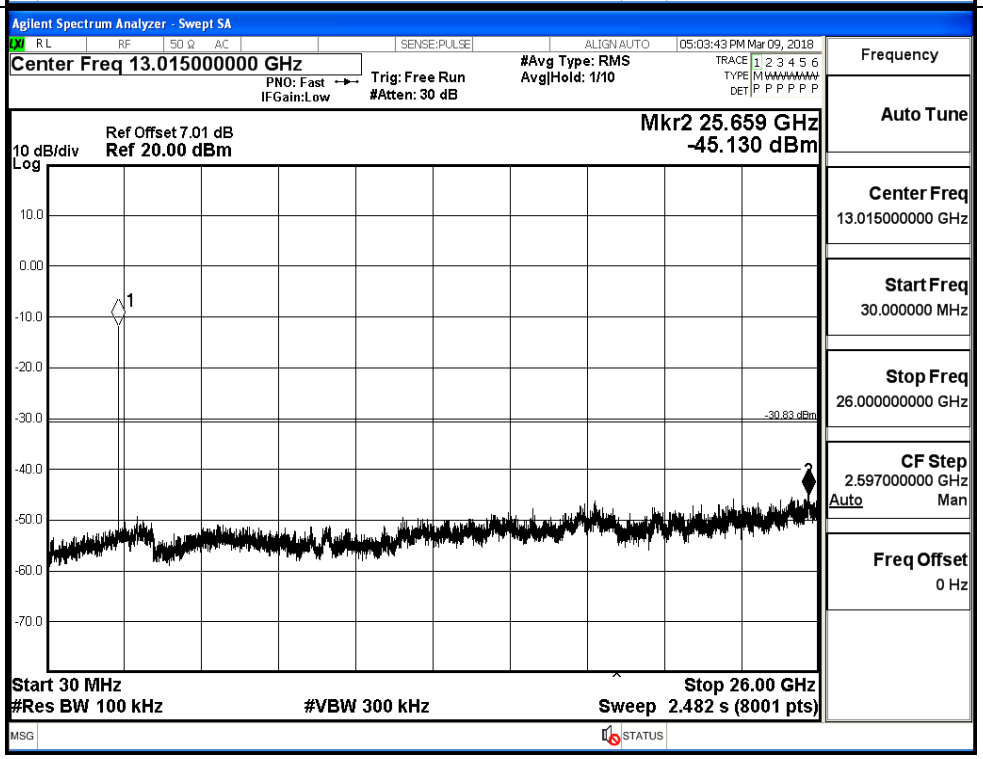
11B_HCH_Graphs		
Pref/11B/HCH		
Puw/11B/HCH		

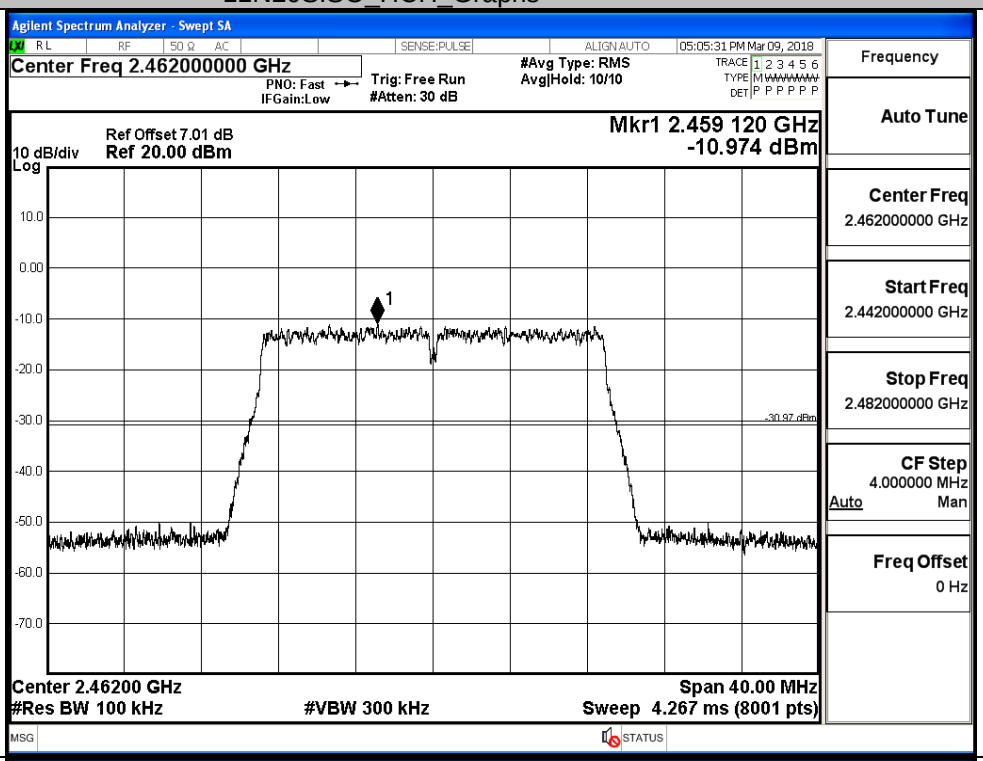
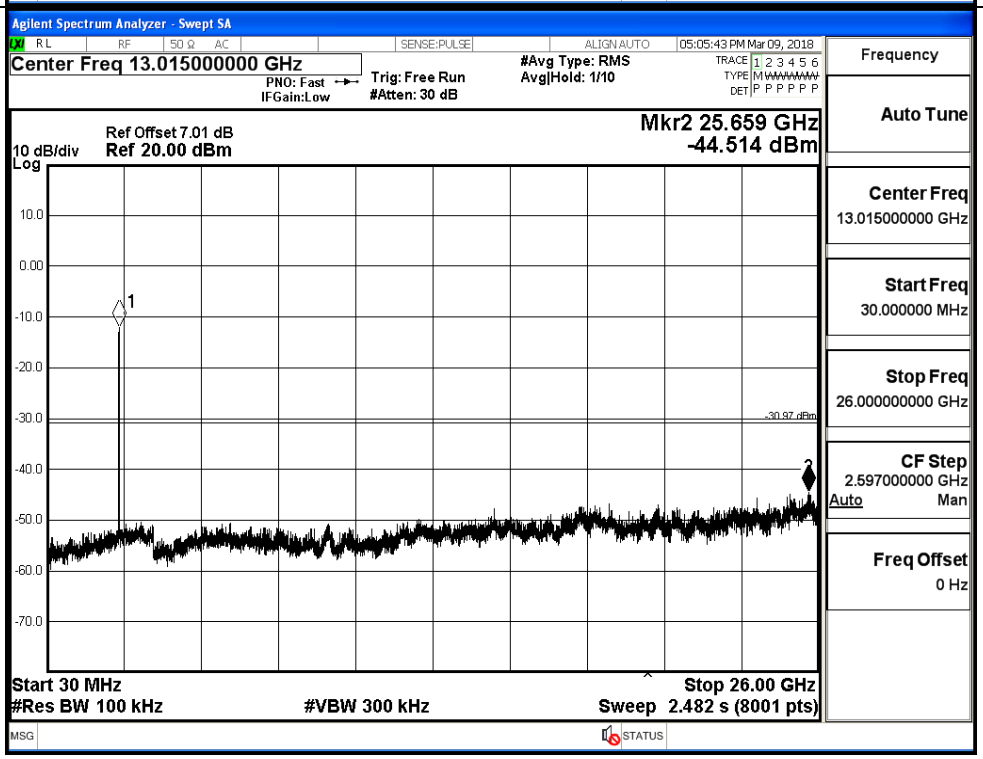
11G_LCH_Graphs		
Pref/11G/LCH		
Puw/11G/LCH		

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

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

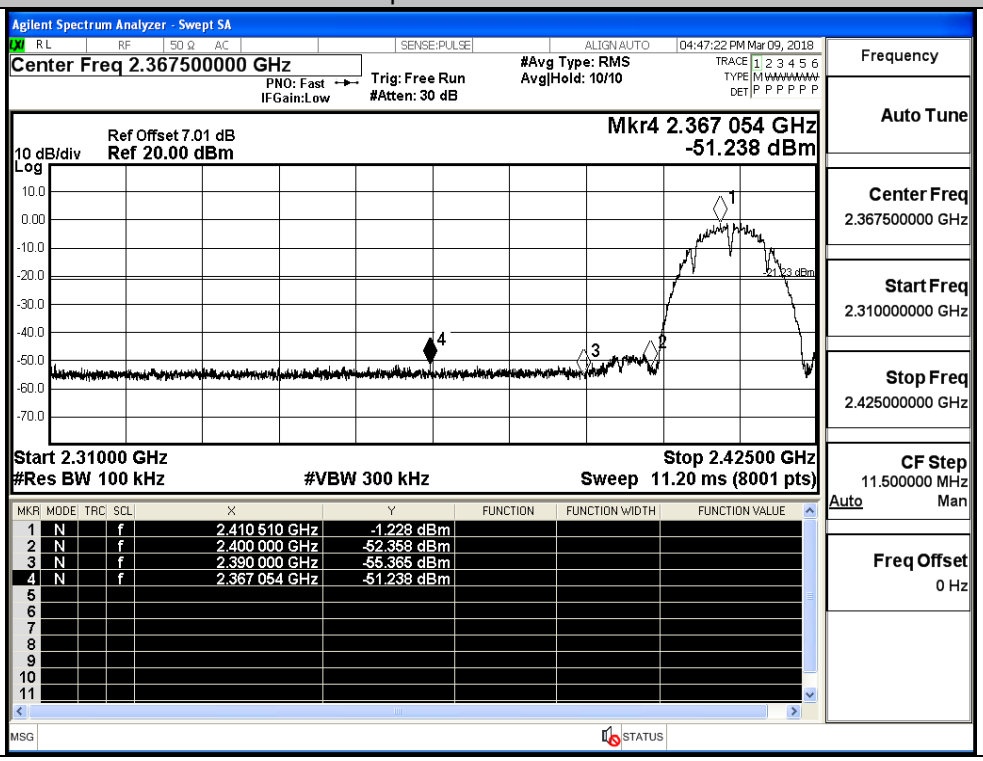
11N20SISO_LCH_Graphs		
Pref/11N20SISO/LCH		
Puw/11N20SISO/LCH		

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

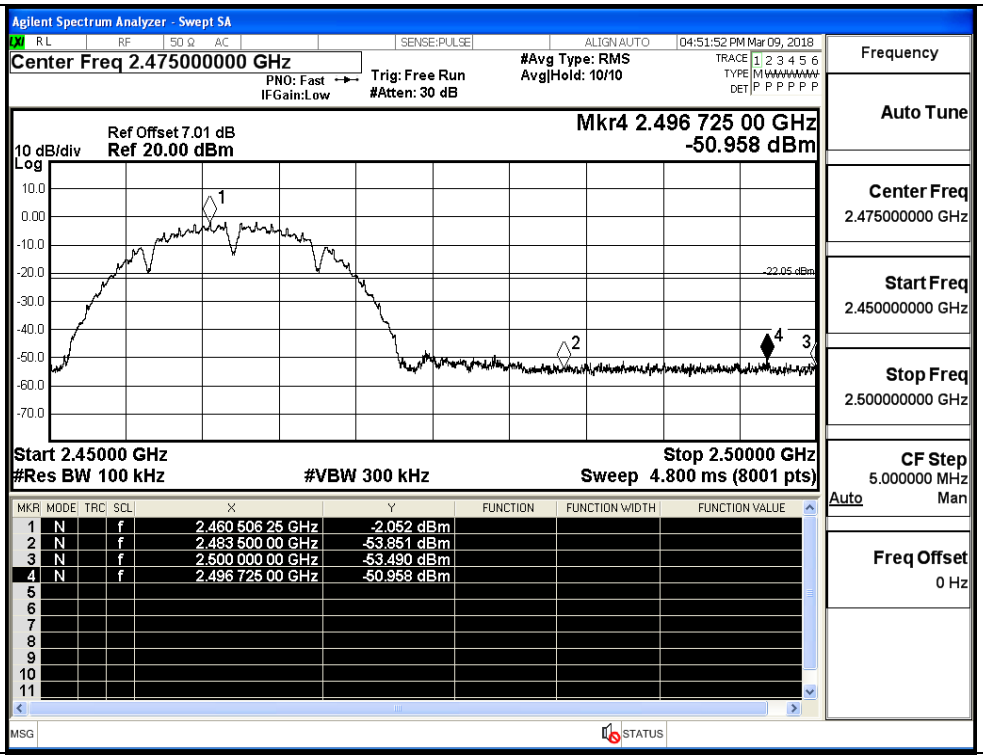
11N20SISO_HCH_Graphs		
Pref/11N20 SISO/HCH		
Puw/11N20 SISO/HCH		

B.5 Band-edge for RF Conducted Emissions

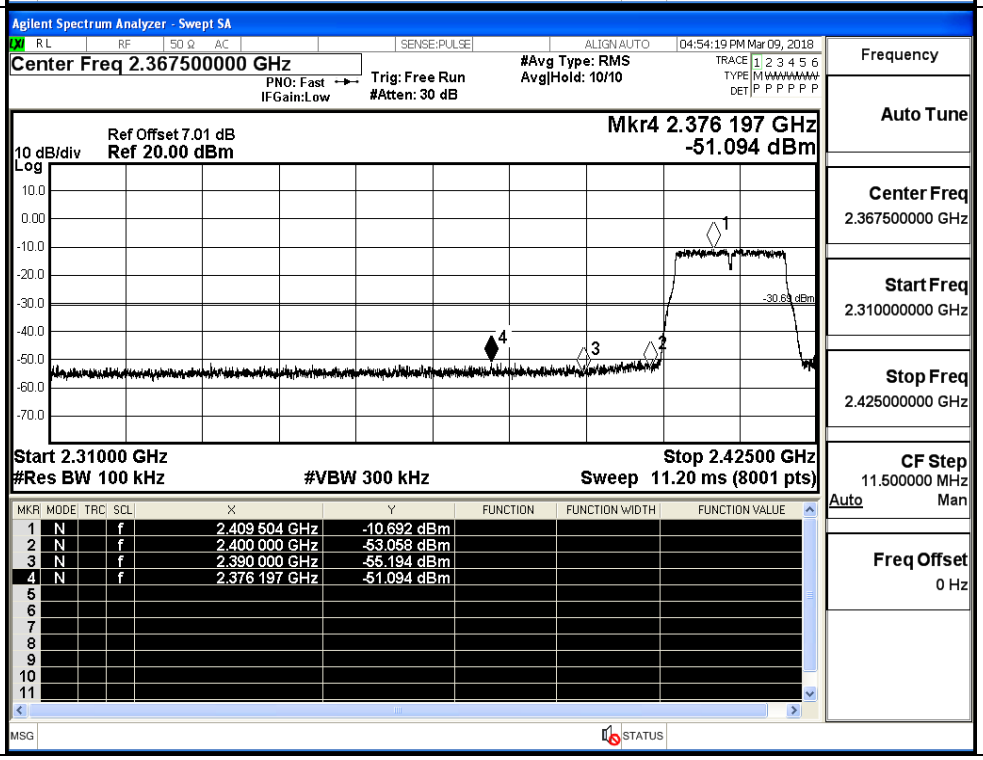
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-1.228	-51.238	-21.23	PASS
	HCH	-2.052	-50.958	-22.05	PASS
11G	LCH	-10.692	-51.094	-30.69	PASS
	HCH	-11.046	-50.774	-31.05	PASS
11N20SISO	LCH	-10.491	-50.735	-30.49	PASS
	HCH	-10.795	-50.336	-30.8	PASS

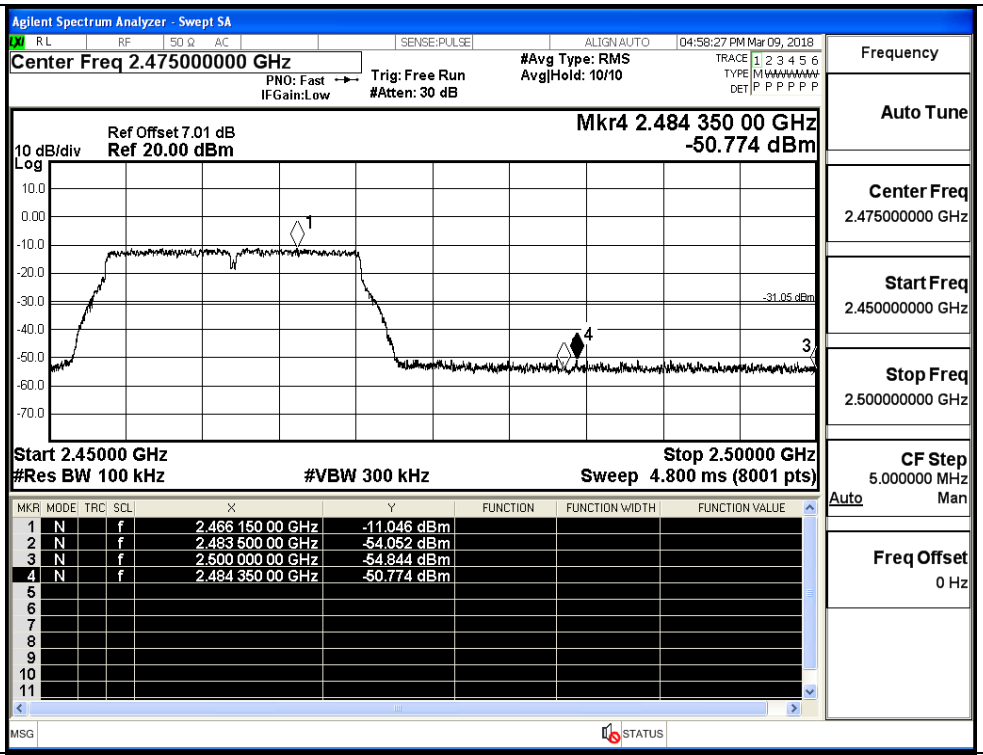
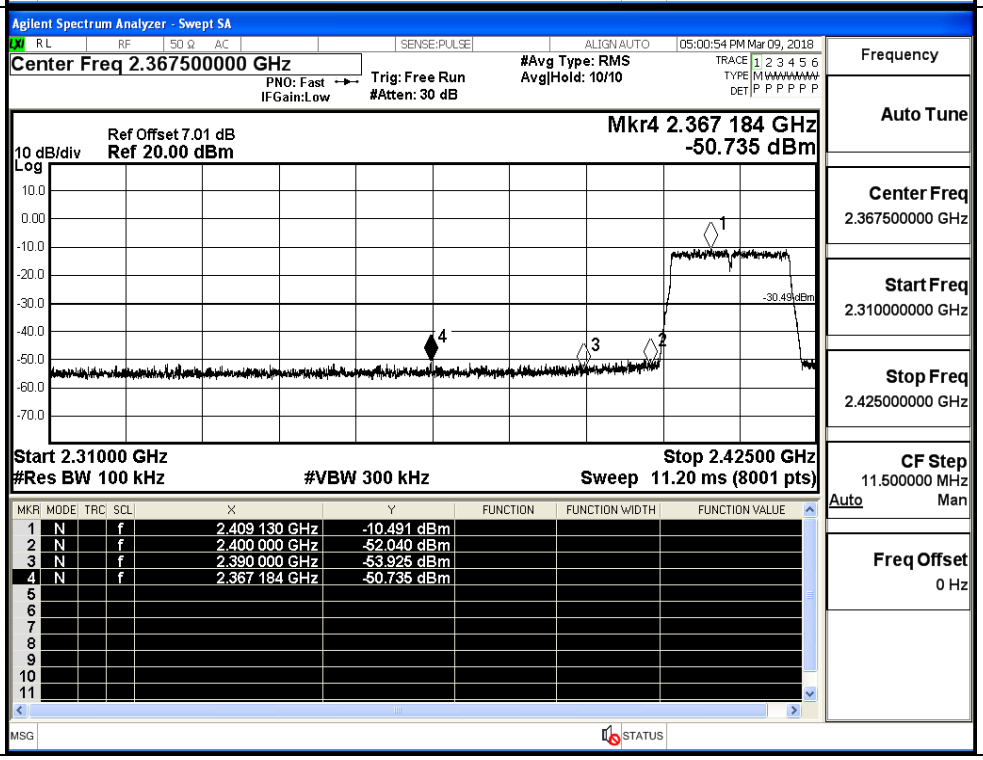
Test Graphs	
11B/LCH	

11B/HCH

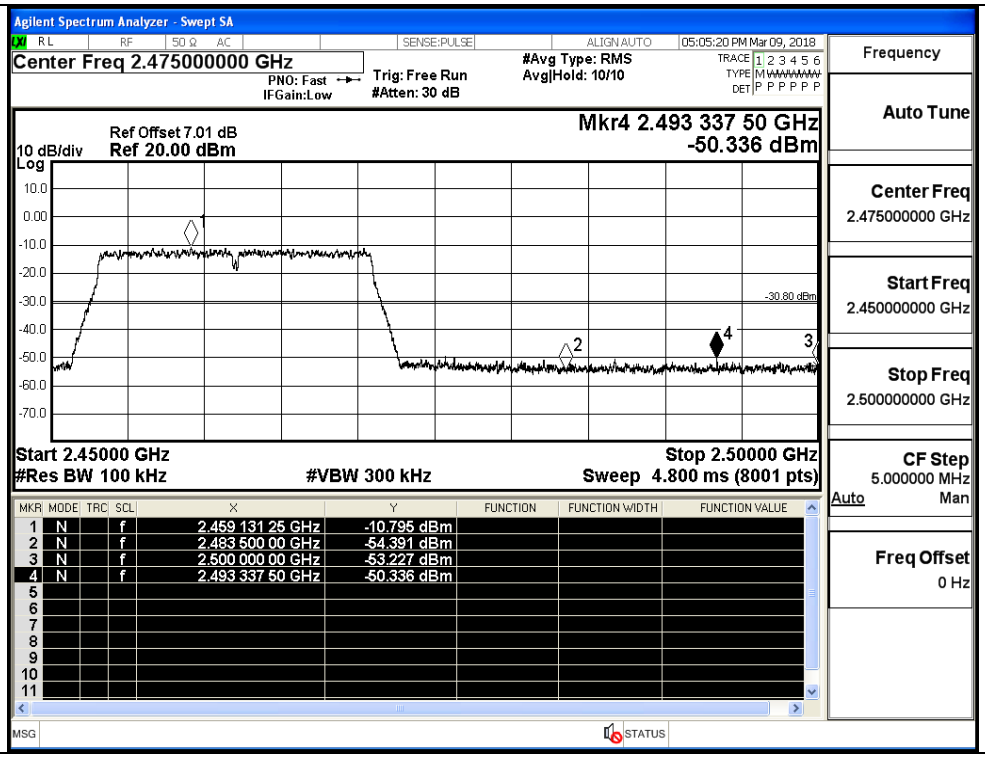


11G/LCH



11G/HCH		
11N20SISO/LCH		

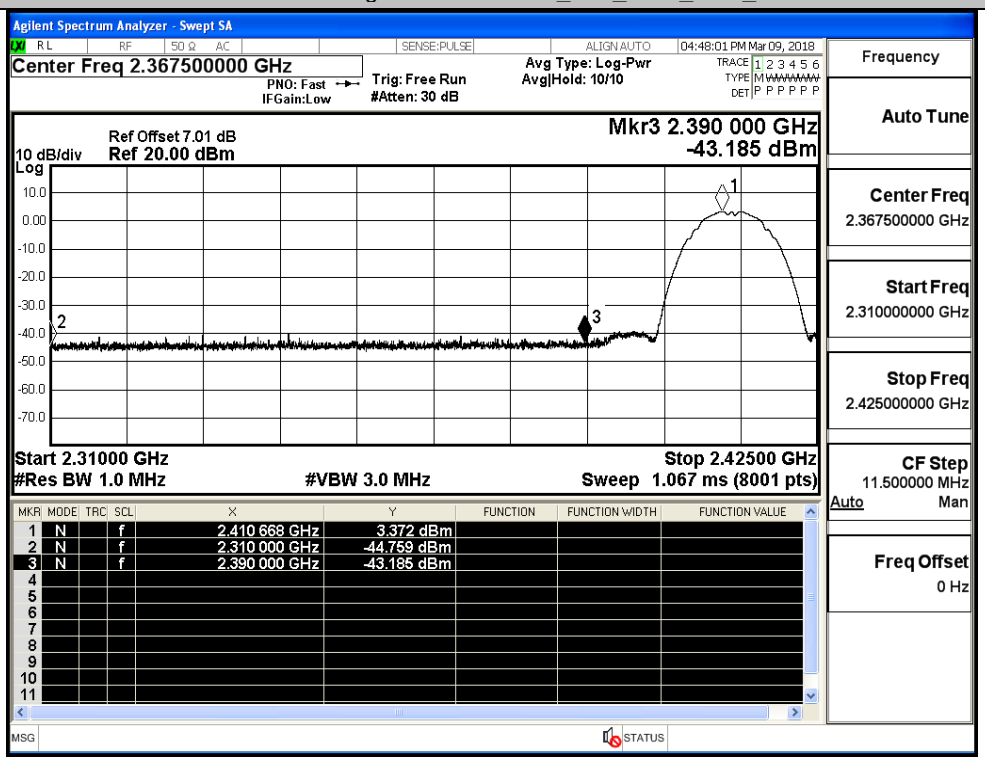
11N20SISO/HCH



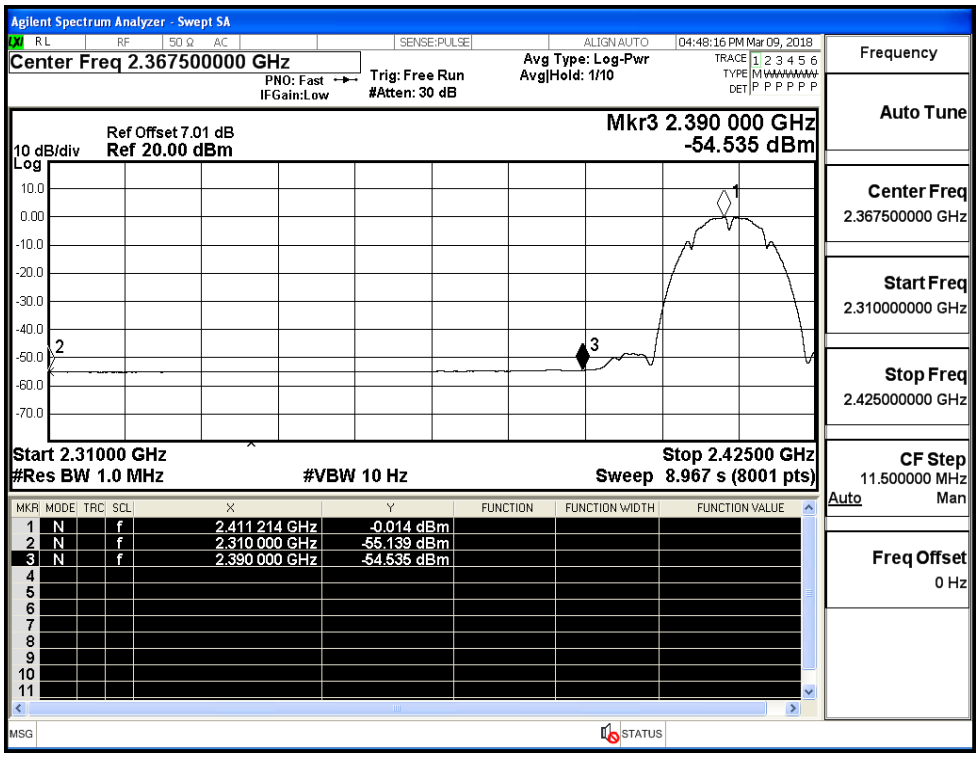
B.6 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant0	2310.0	-44.76	2.64	0	53.08	PEAK	74	PASS
	2412	Ant0	2310.0	-55.14	2.64	0	42.70	AV	54	PASS
	2412	Ant0	2390.0	-43.19	2.64	0	54.65	PEAK	74	PASS
	2412	Ant0	2390.0	-54.54	2.64	0	43.30	AV	54	PASS
	2462	Ant0	2483.5	-44.33	2.64	0	53.51	PEAK	74	PASS
	2462	Ant0	2483.5	-54.50	2.64	0	43.34	AV	54	PASS
	2462	Ant0	2500.0	-44.77	2.64	0	53.07	PEAK	74	PASS
	2462	Ant0	2500.0	-54.45	2.64	0	43.39	AV	54	PASS
11G	2412	Ant0	2310.0	-44.99	2.64	0	52.85	PEAK	74	PASS
	2412	Ant0	2310.0	-55.13	2.64	0	42.71	AV	54	PASS
	2412	Ant0	2390.0	-42.56	2.64	0	55.28	PEAK	74	PASS
	2412	Ant0	2390.0	-54.31	2.64	0	43.53	AV	54	PASS
	2462	Ant0	2483.5	-43.78	2.64	0	54.06	PEAK	74	PASS
	2462	Ant0	2483.5	-54.14	2.64	0	43.70	AV	54	PASS
	2462	Ant0	2500.0	-44.28	2.64	0	53.56	PEAK	74	PASS
	2462	Ant0	2500.0	-54.21	2.64	0	43.63	AV	54	PASS
11N20 SISO	2412	Ant0	2310.0	-45.49	2.64	0	52.35	PEAK	74	PASS
	2412	Ant0	2310.0	-55.12	2.64	0	42.72	AV	54	PASS
	2412	Ant0	2390.0	-43.04	2.64	0	54.80	PEAK	74	PASS
	2412	Ant0	2390.0	-54.10	2.64	0	43.74	AV	54	PASS
	2462	Ant0	2483.5	-44.20	2.64	0	53.64	PEAK	74	PASS
	2462	Ant0	2483.5	-54.11	2.64	0	43.73	AV	54	PASS
	2462	Ant0	2500.0	-43.74	2.64	0	54.10	PEAK	74	PASS
	2462	Ant0	2500.0	-54.22	2.64	0	43.62	AV	54	PASS

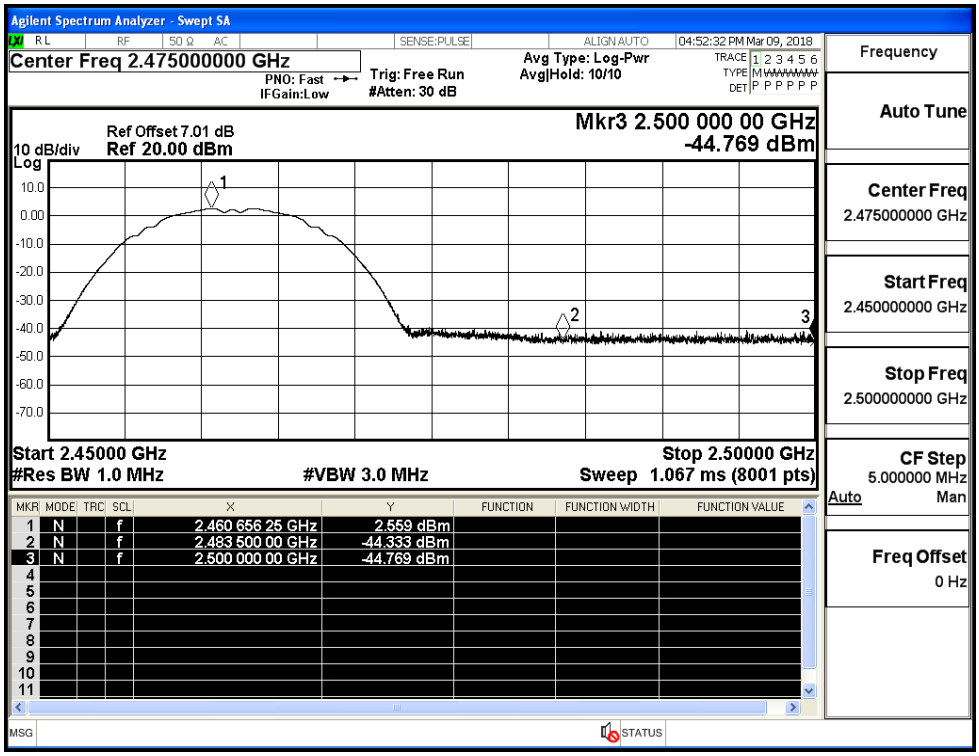
Restrict-band band-edge measurements_11B_2412_Ant0_PEAK



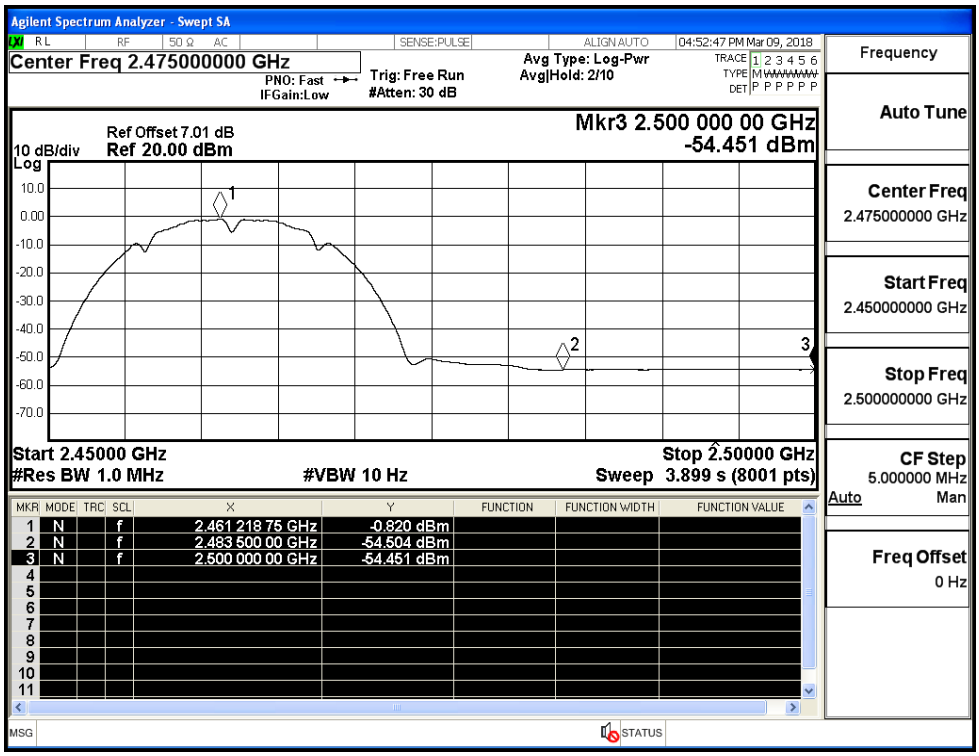
Restrict-band band-edge measurements_11B_2412_Ant0_AV



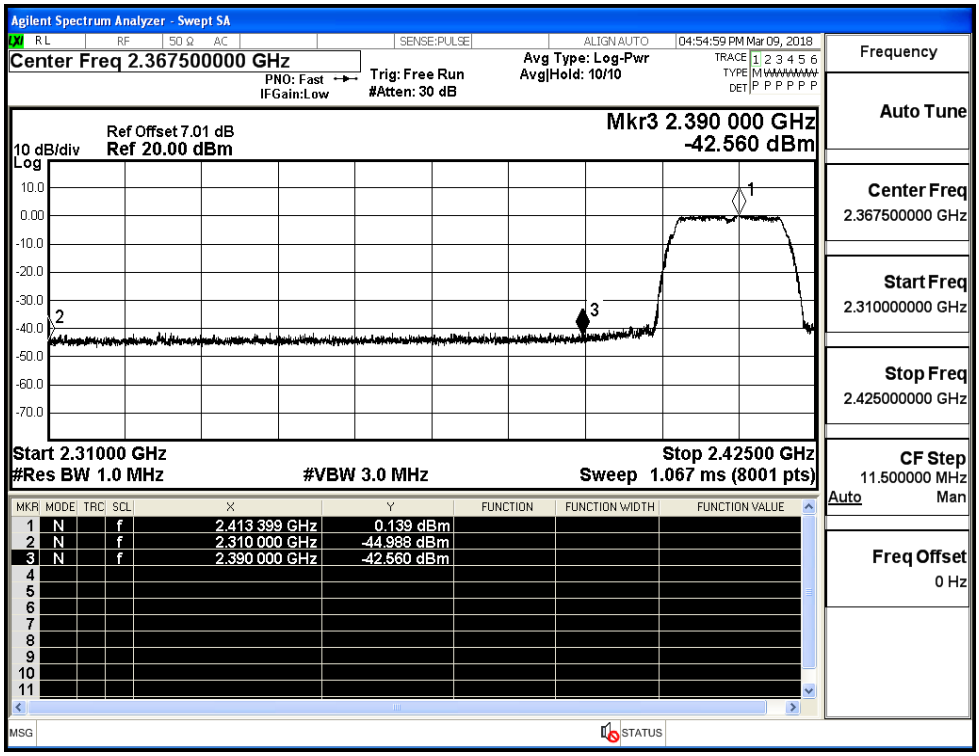
Restrict-band band-edge measurements_11B_2462_Ant0_PEAK



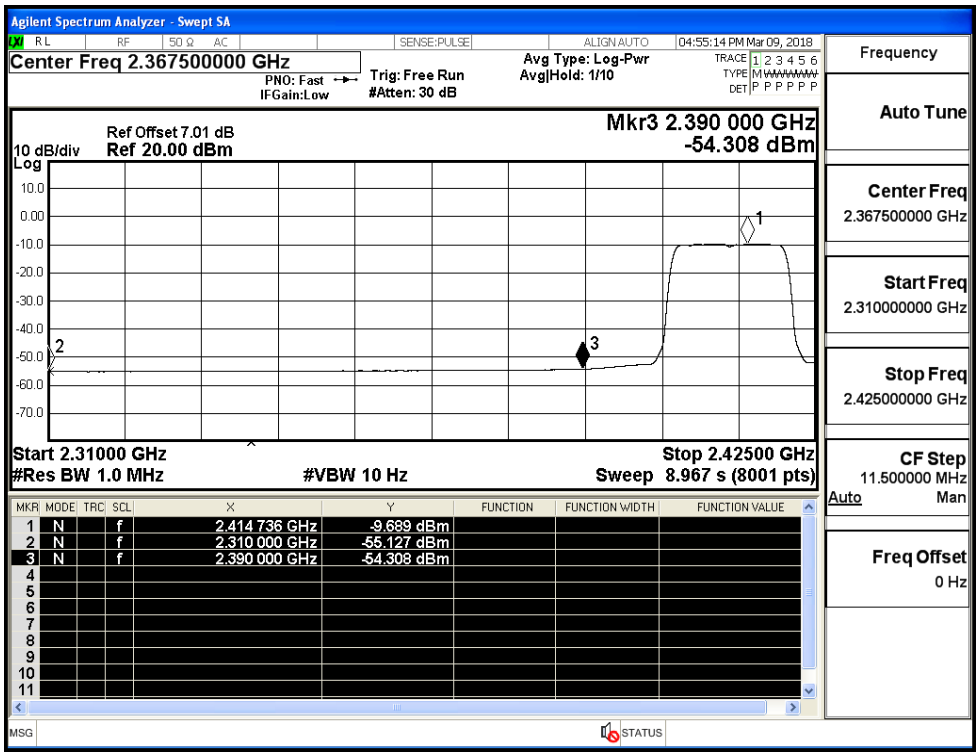
Restrict-band band-edge measurements_11B_2462_Ant0_AV



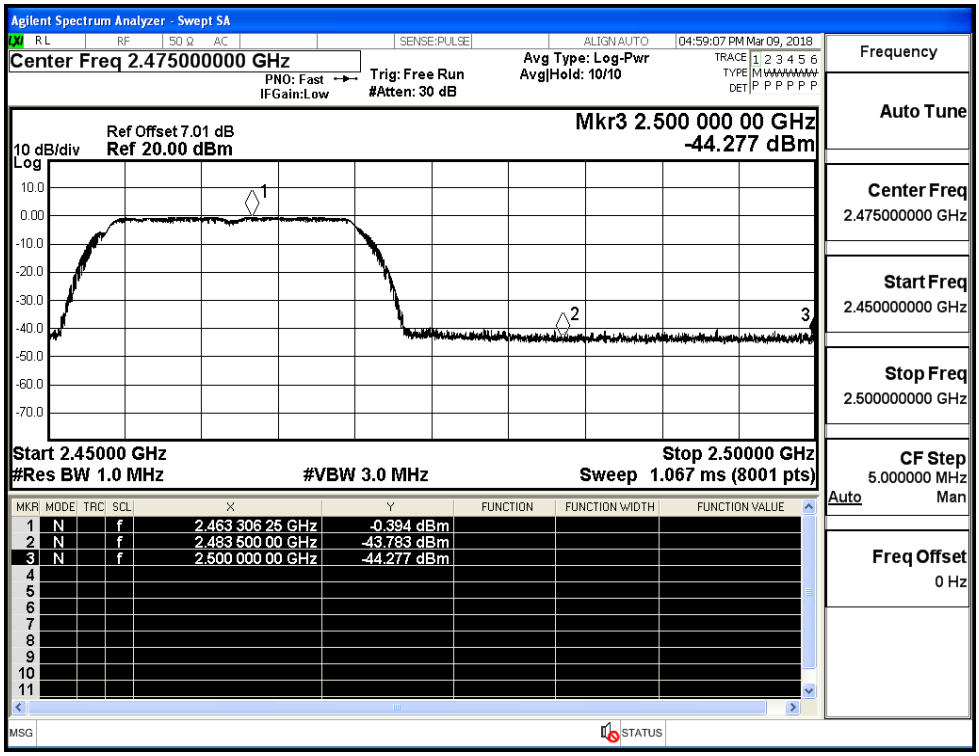
Restrict-band band-edge measurements_11G_2412_Ant0_PEAK



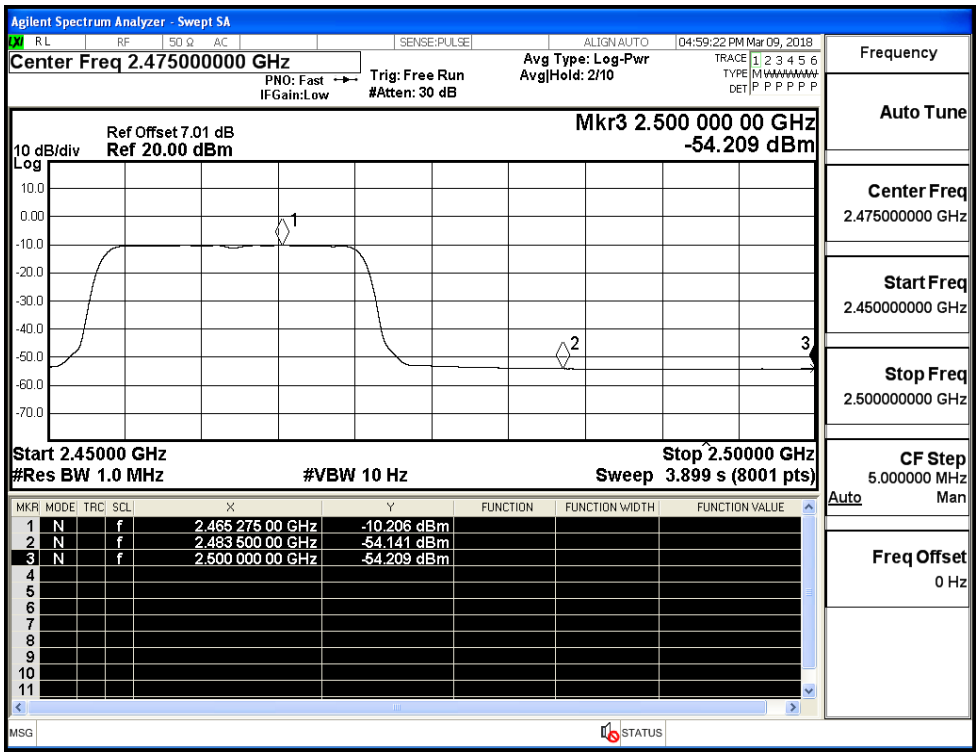
Restrict-band band-edge measurements_11G_2412_Ant0_AV



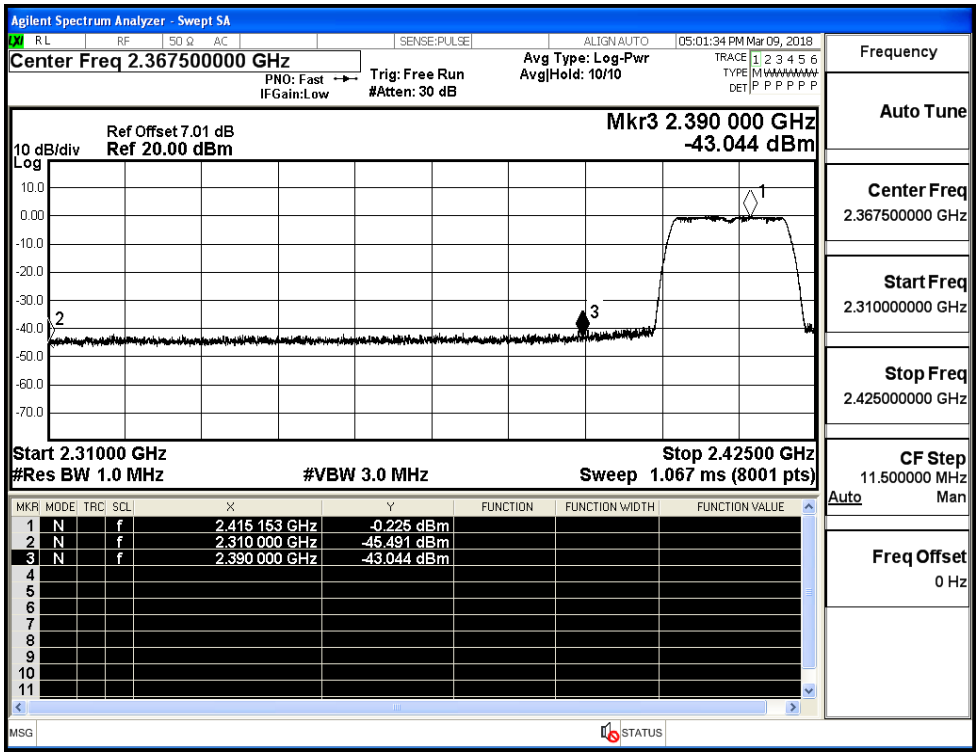
Restrict-band band-edge measurements_11G_2462_Ant0_PEAK



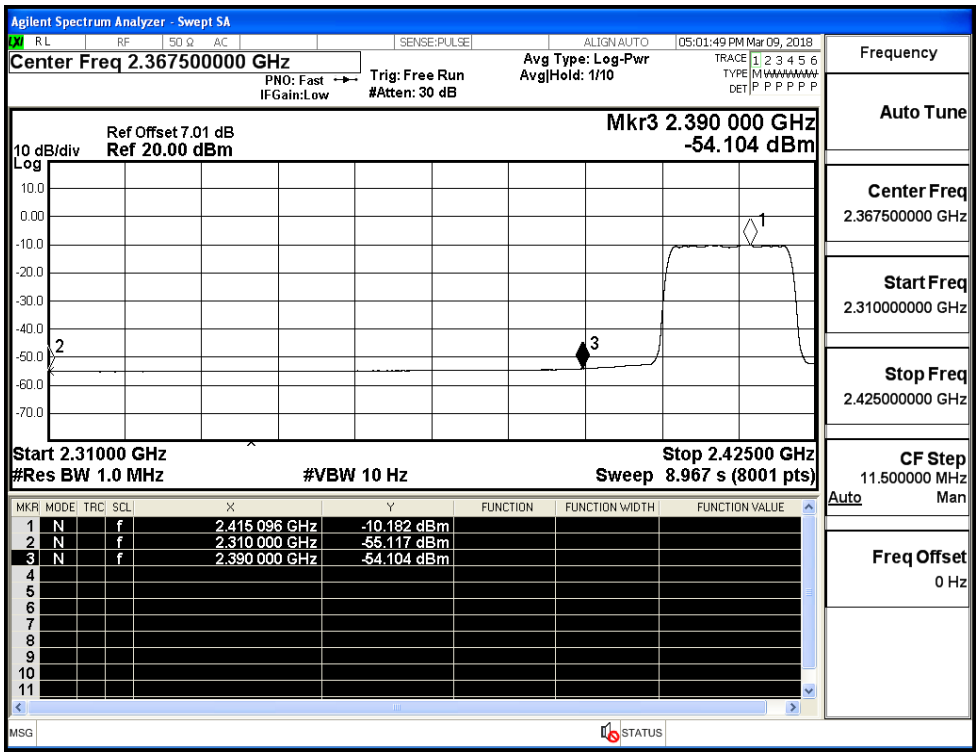
Restrict-band band-edge measurements_11G_2462_Ant0_AV



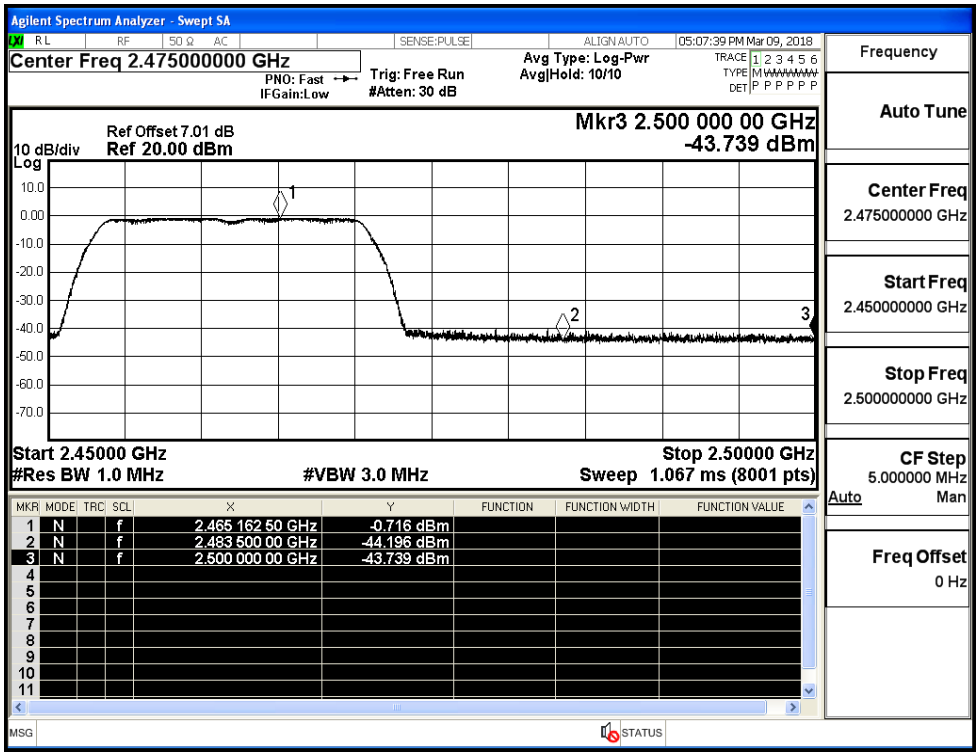
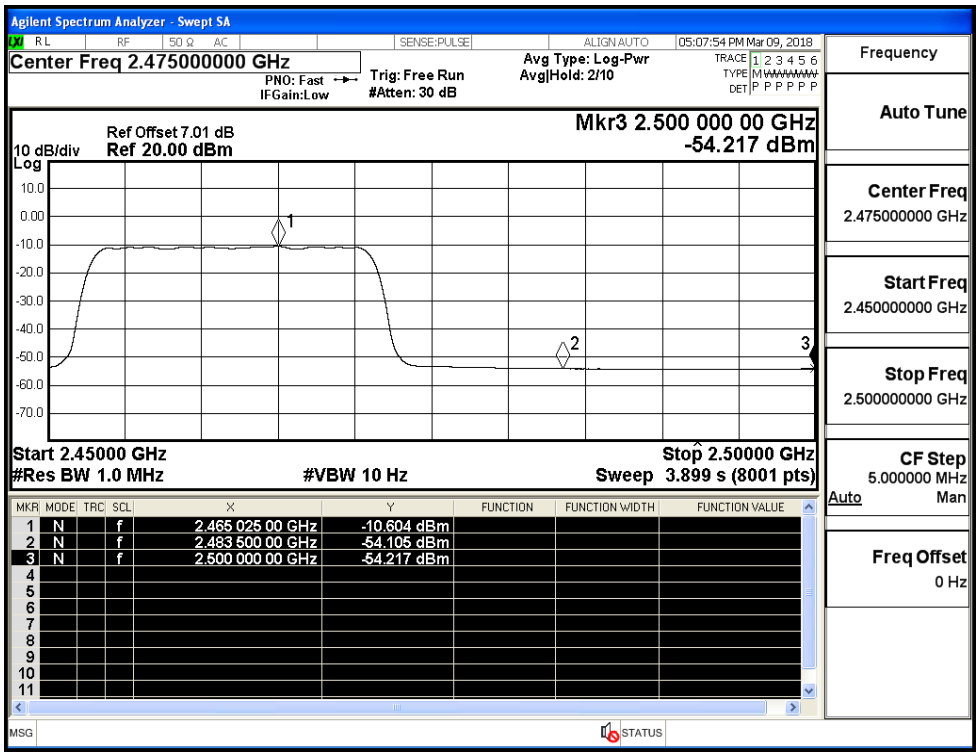
Restrict-band band-edge measurements_11N20SISO_2412_Ant0_PEAK



Restrict-band band-edge measurements_11N20SISO_2412_Ant0_AV



Restrict-band band-edge measurements_11N20SISO_2462_Ant0_PEAK



Restrict-band band-edge measurements_11N20SISO_2462_Ant0_AV