Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Pet Feeder

Trade Mark: N/A

Test Model: PP001

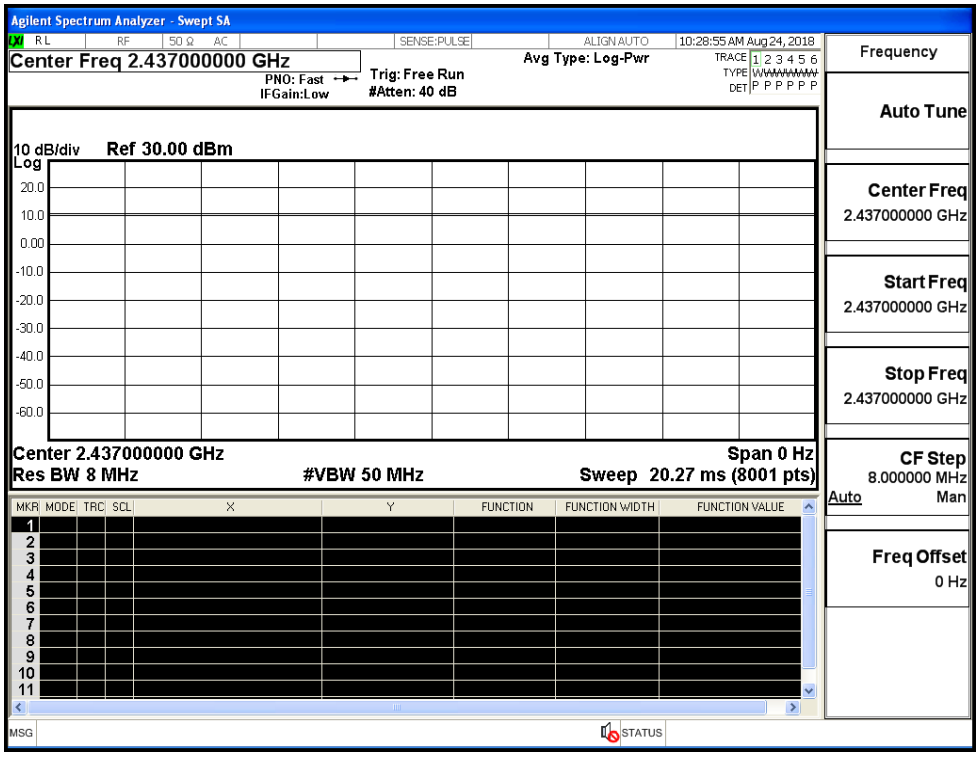
Environmental Conditions

Temperature:	24.3° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	WangChuang
Supervised by:	Jayden.Zhuo

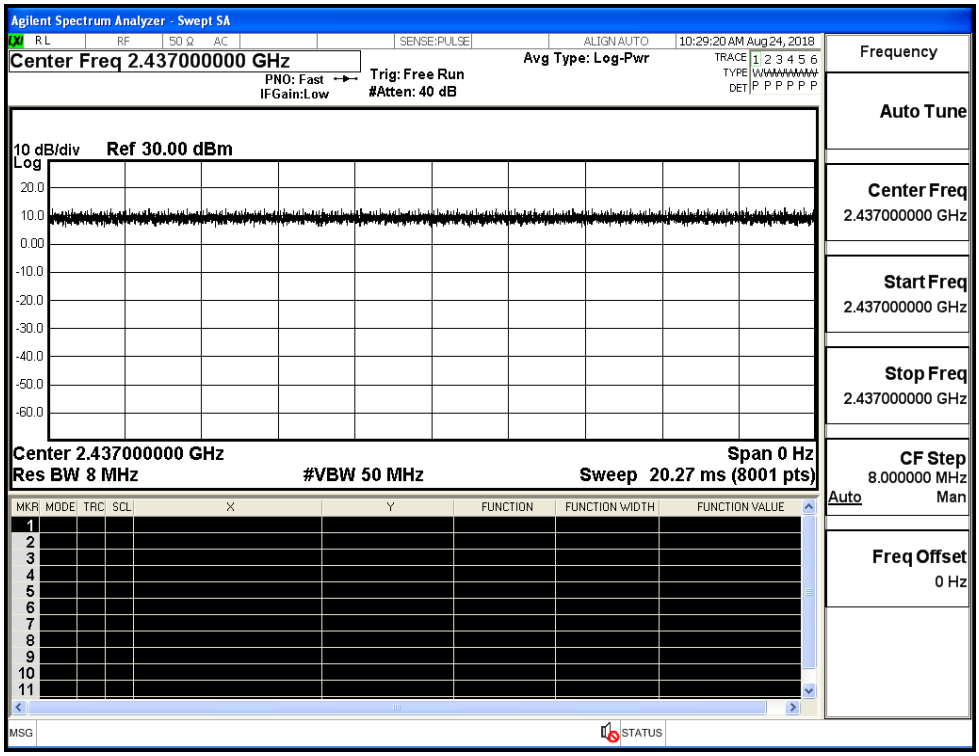
A.1 Duty Cycle

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

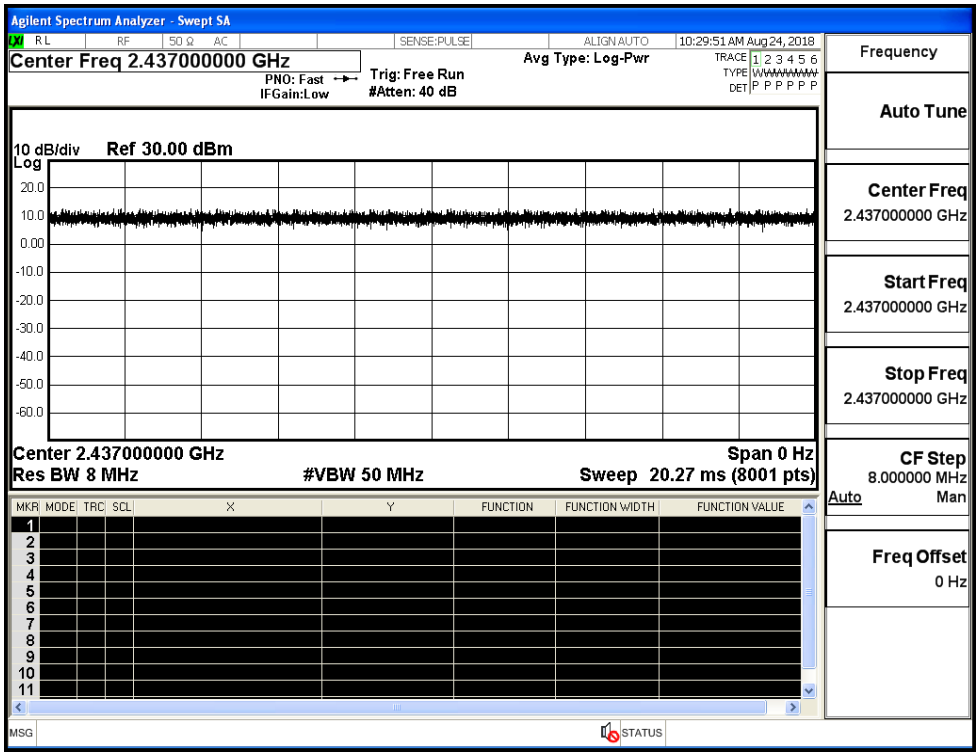
Duty Cycle_11B_2437_Ant1



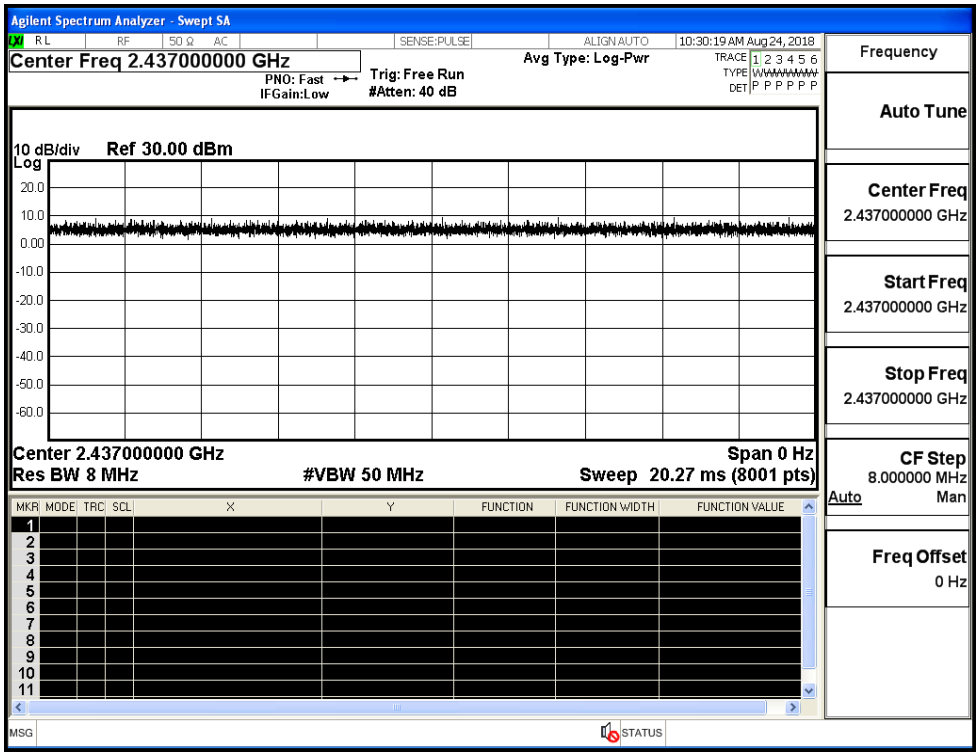
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1



A.2 Maximum Conducted Output Power

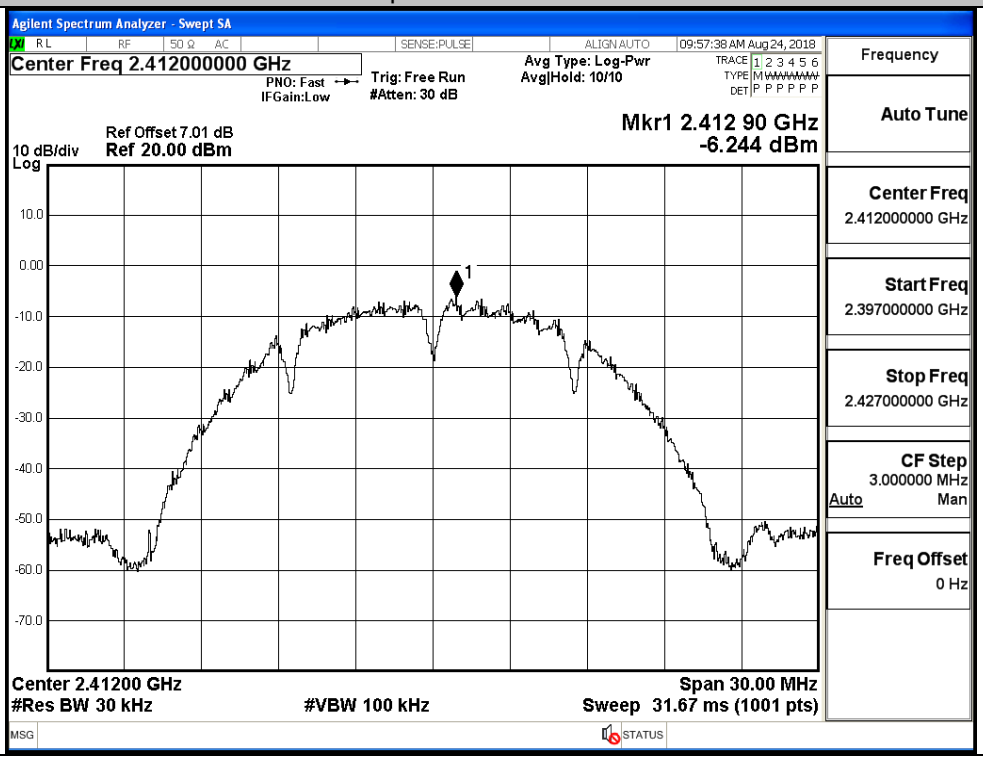
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	10.23	30	PASS
	MCH	10.17	30	PASS
	HCH	10.33	30	PASS
11G	LCH	13.02	30	PASS
	MCH	12.96	30	PASS
	HCH	13.07	30	PASS
11N20SISO	LCH	12.82	30	PASS
	MCH	13.09	30	PASS
	HCH	13.20	30	PASS
11N40SISO	LCH	13.76	30	PASS
	MCH	14.27	30	PASS
	HCH	14.42	30	PASS

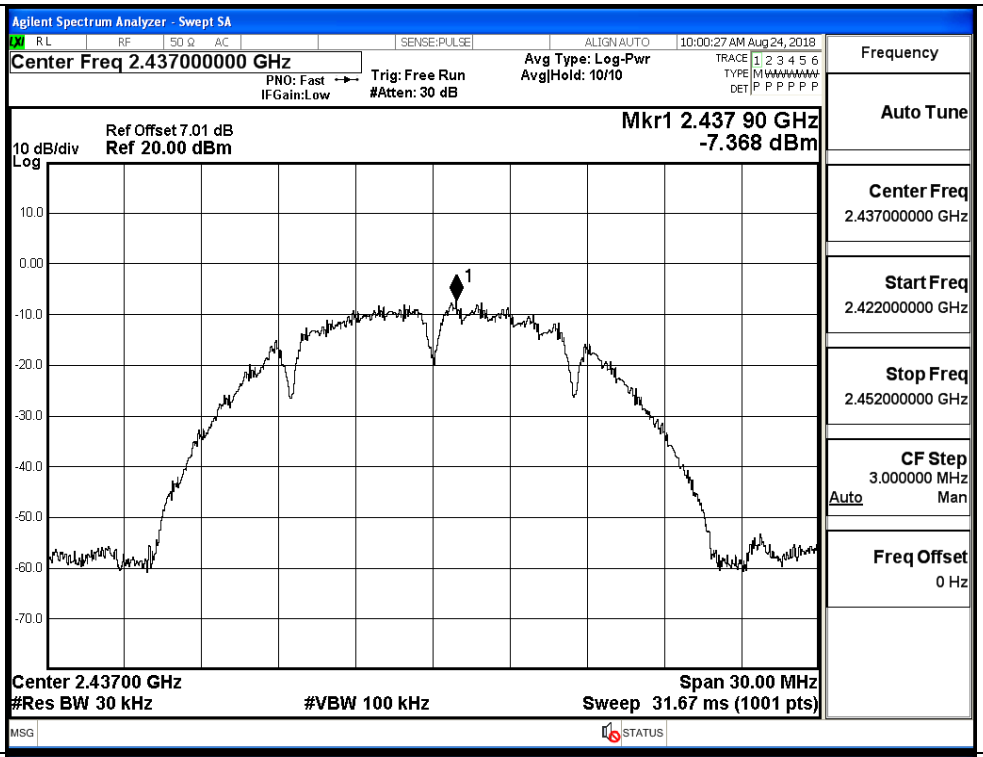
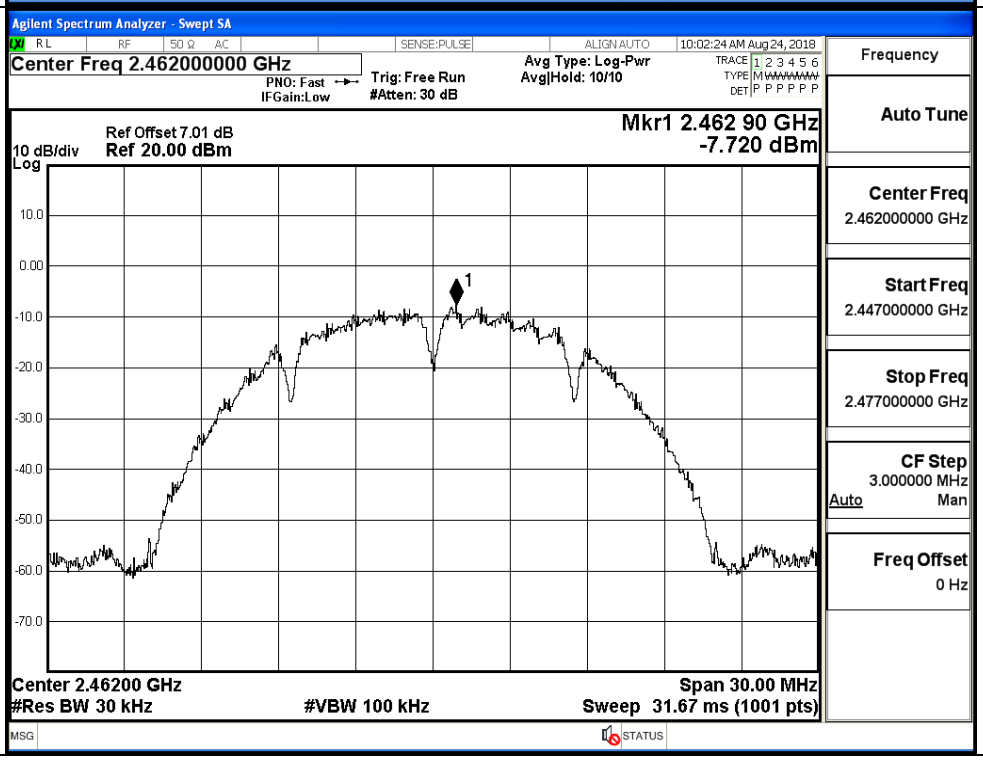
A.3 Maximum Power Spectral Density

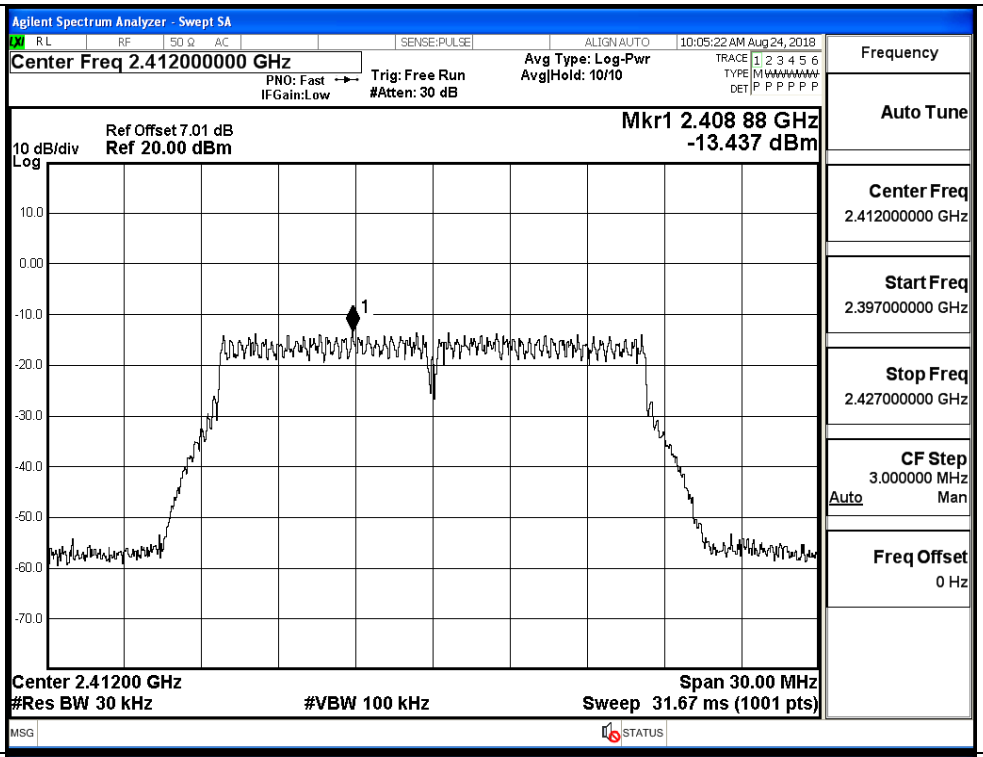
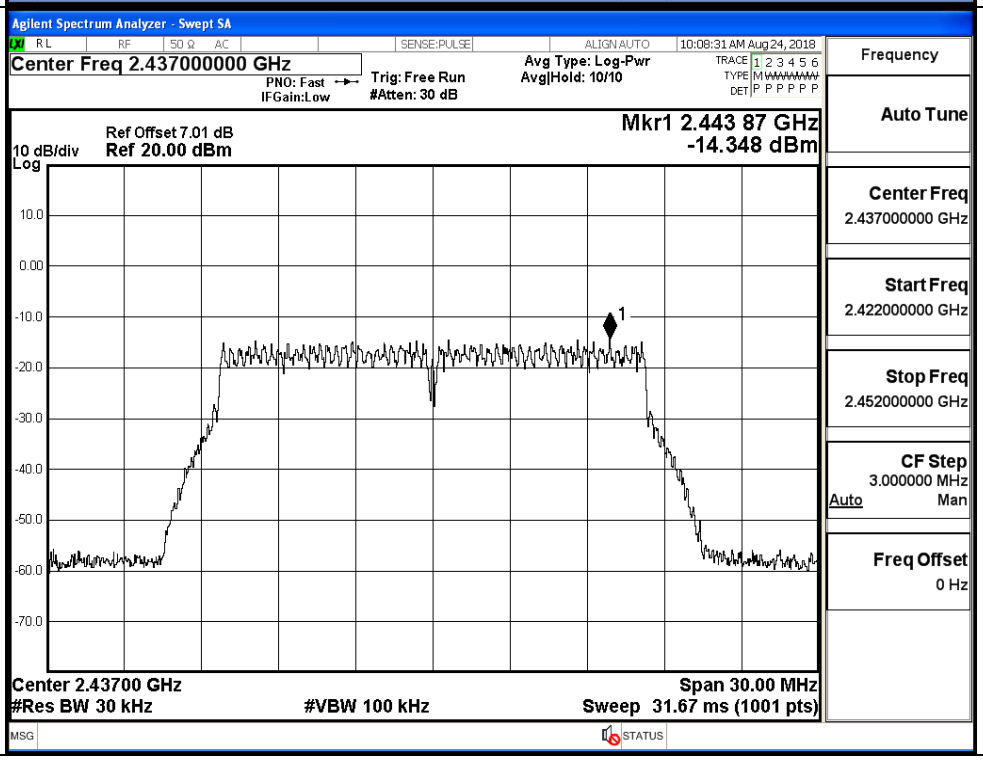
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-6.244	8	PASS
	MCH	-7.368	8	PASS
	HCH	-7.720	8	PASS
11G	LCH	-13.437	8	PASS
	MCH	-14.348	8	PASS
	HCH	-14.922	8	PASS
11N20SISO	LCH	-13.495	8	PASS
	MCH	-13.657	8	PASS
	HCH	-14.161	8	PASS
11N40SISO	LCH	-17.169	8	PASS
	MCH	-17.060	8	PASS
	HCH	-17.373	8	PASS

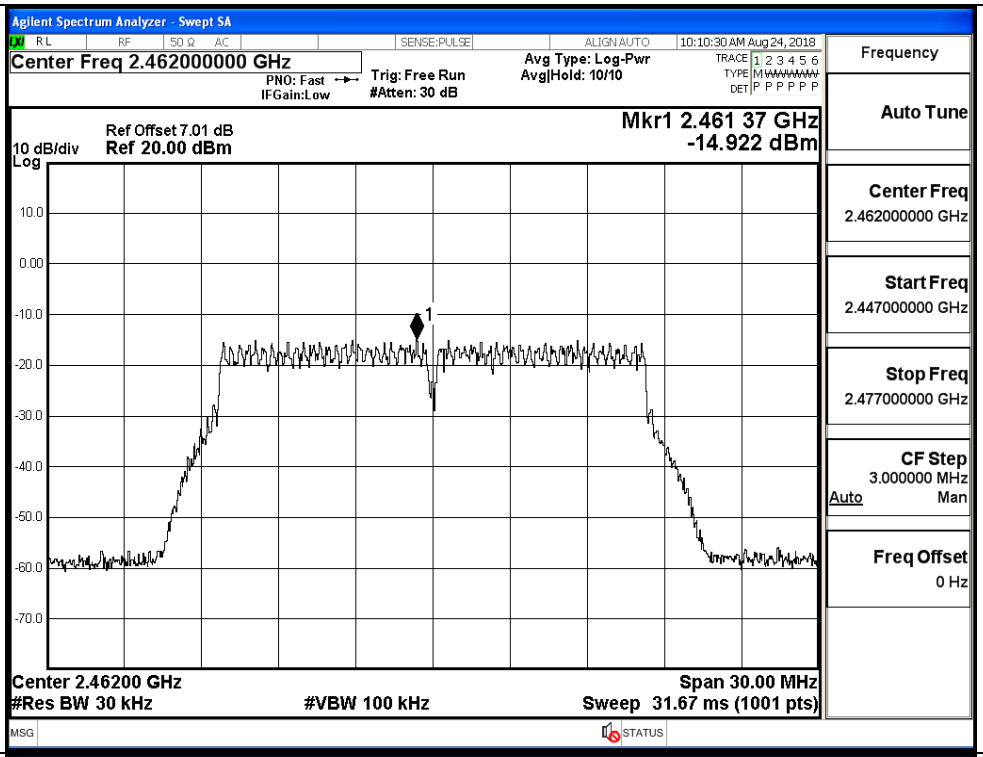
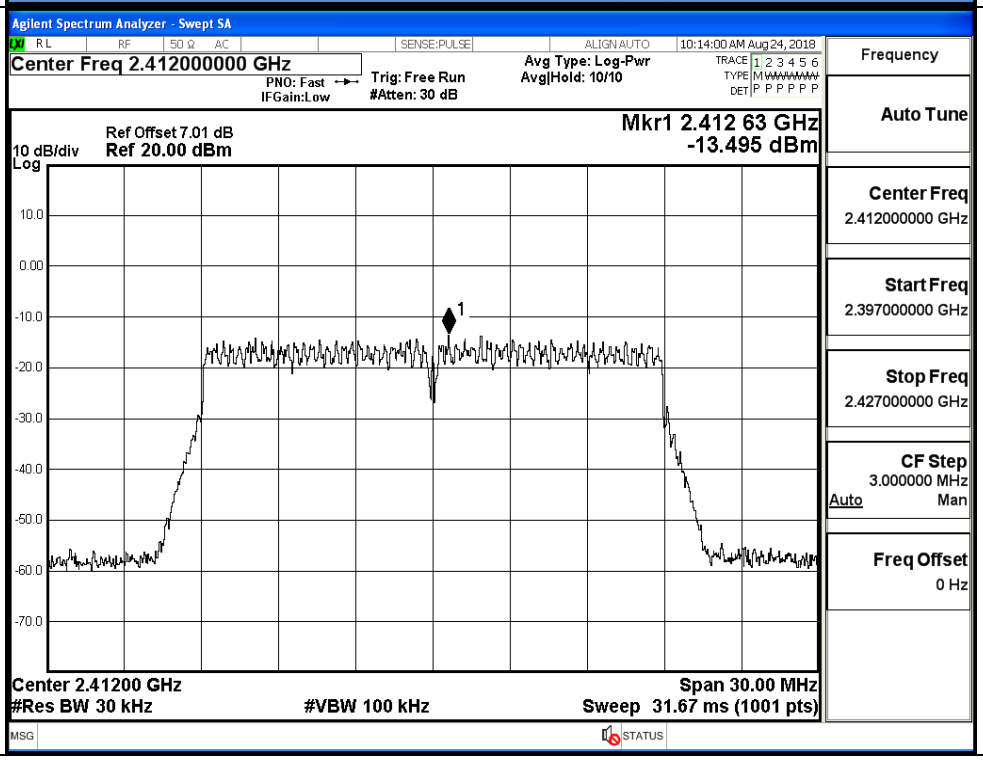
Test Graphs

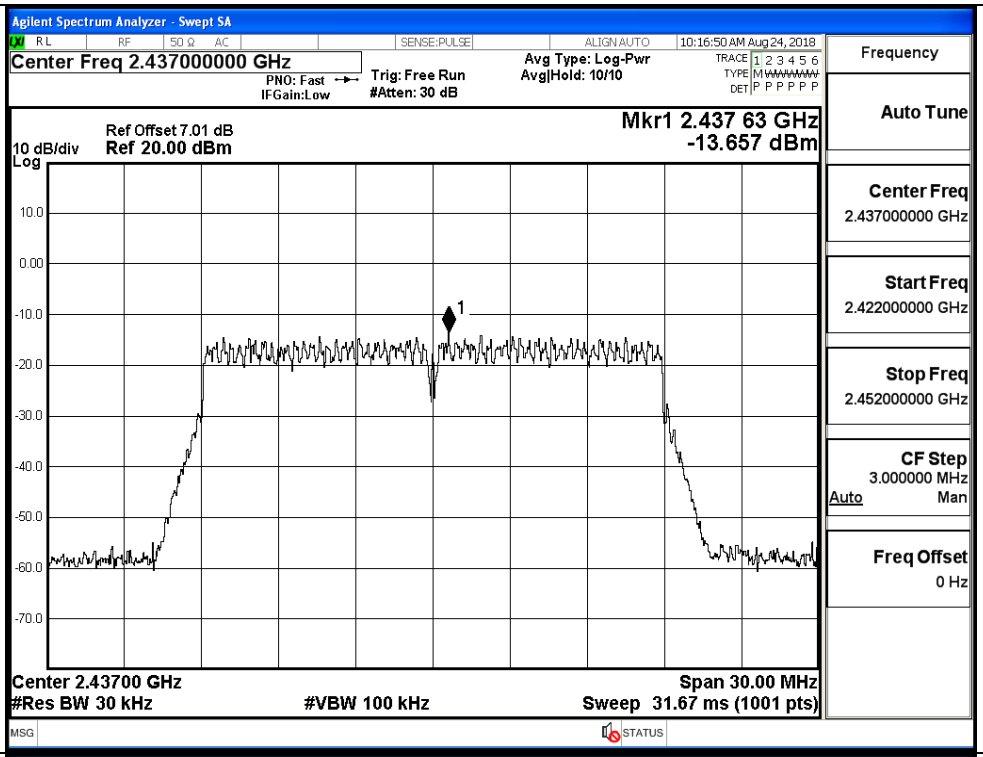
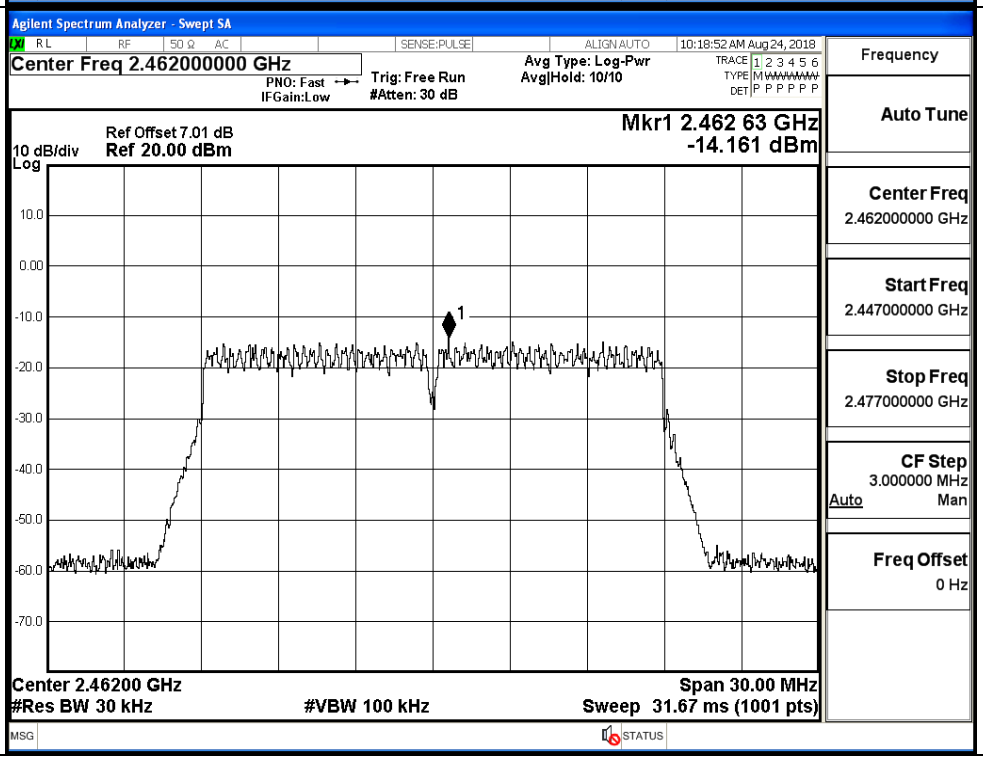
11B/LCH

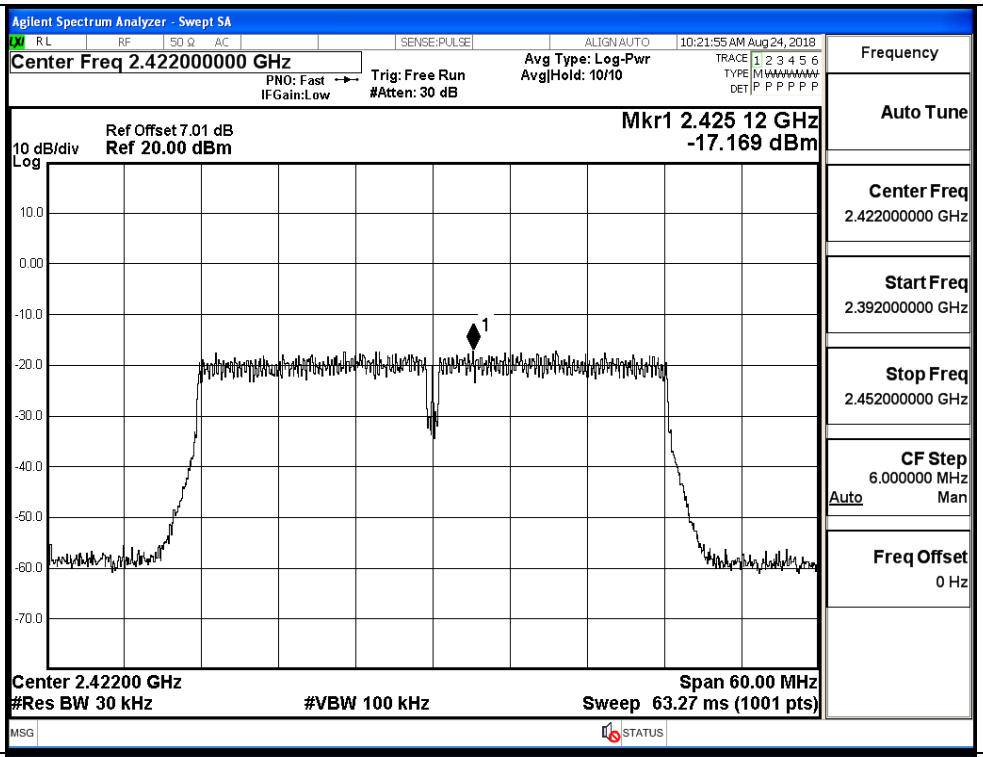
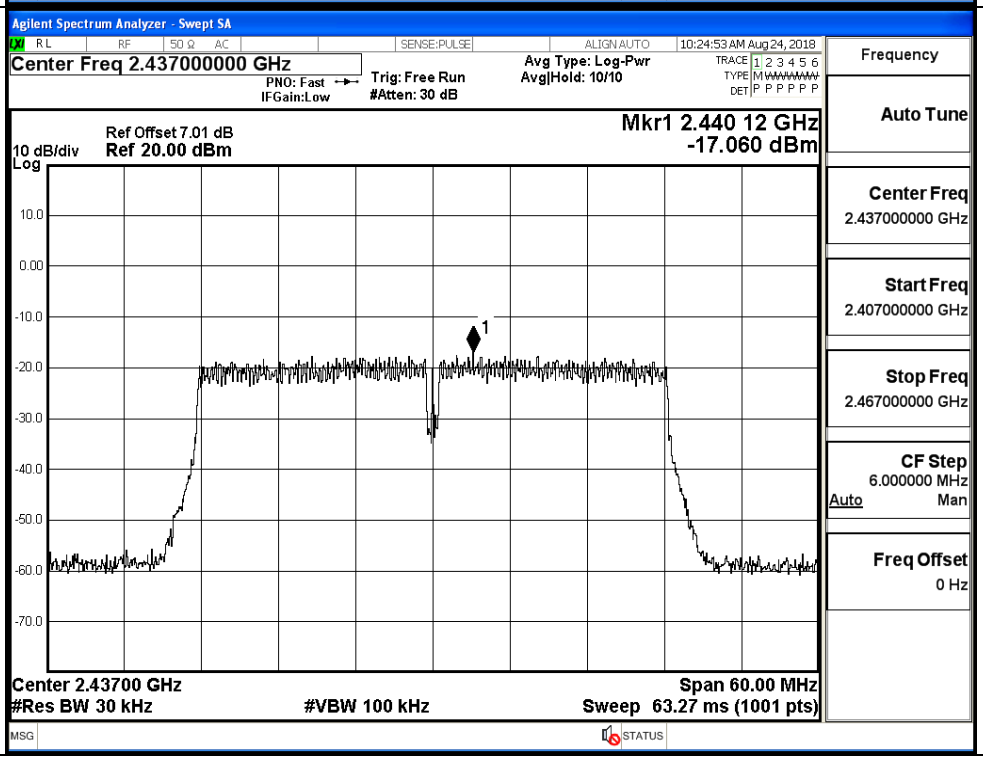


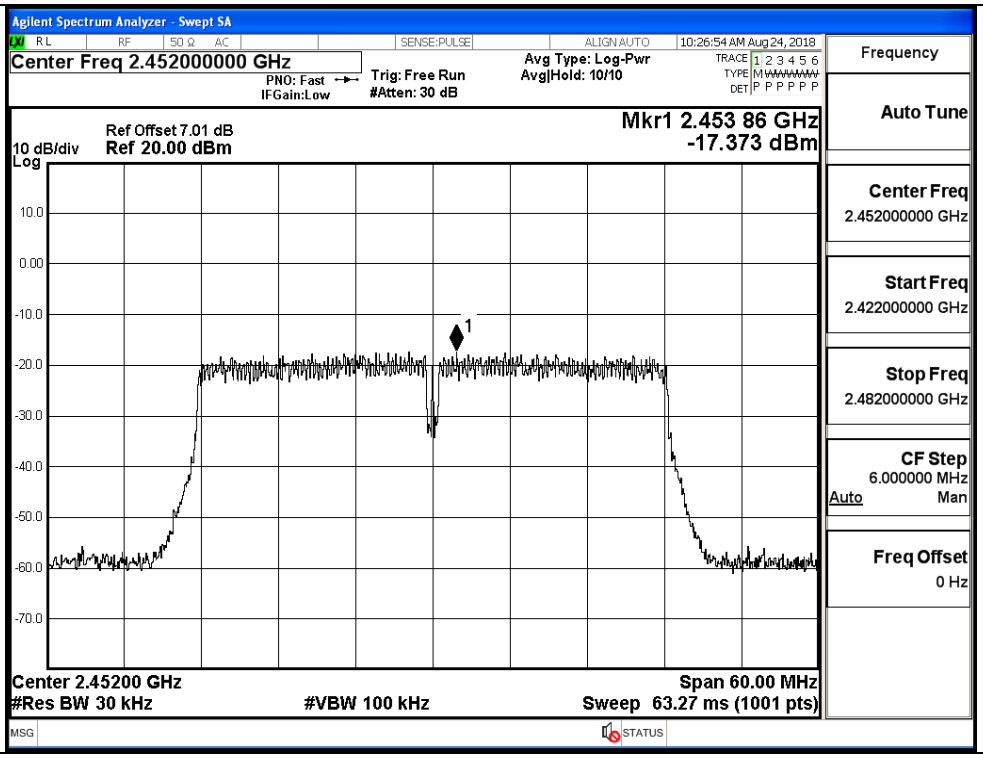
11B/MCH	
11B/HCH	

11G/LCH	
11G/MCH	

11G/HCH	
11N20SISO/LCH	

11N20SISO/MCH	
11N20SISO/HCH	

11N40SISO/LCH		
11N40SISO/MCH		

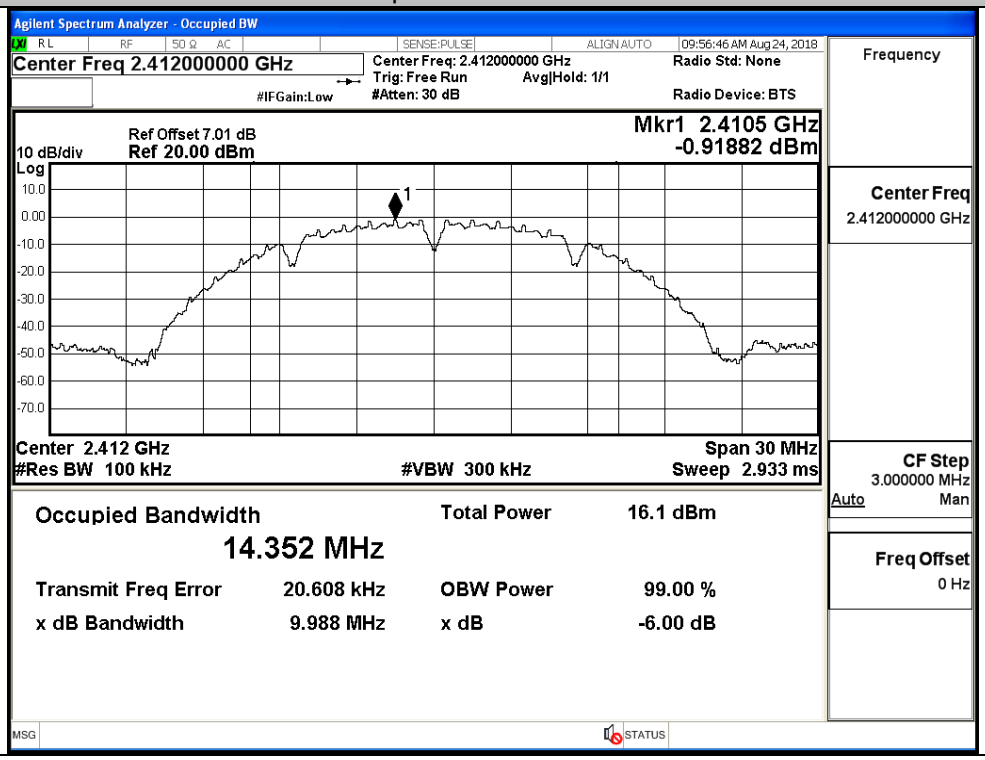
11N40SISO/HCH	

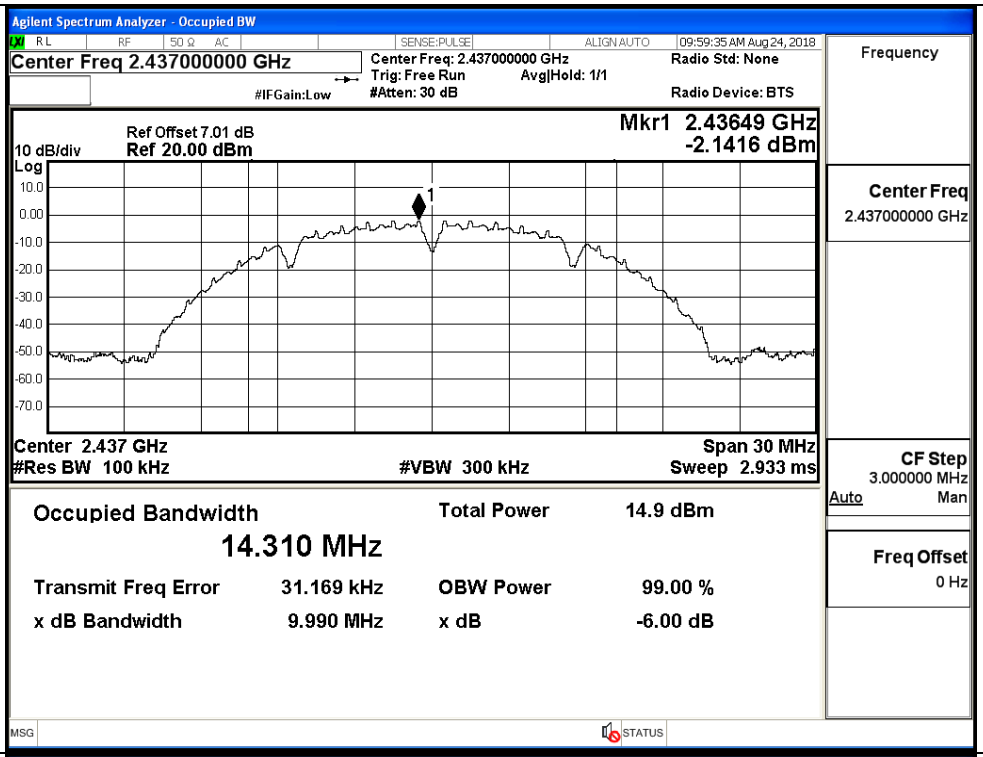
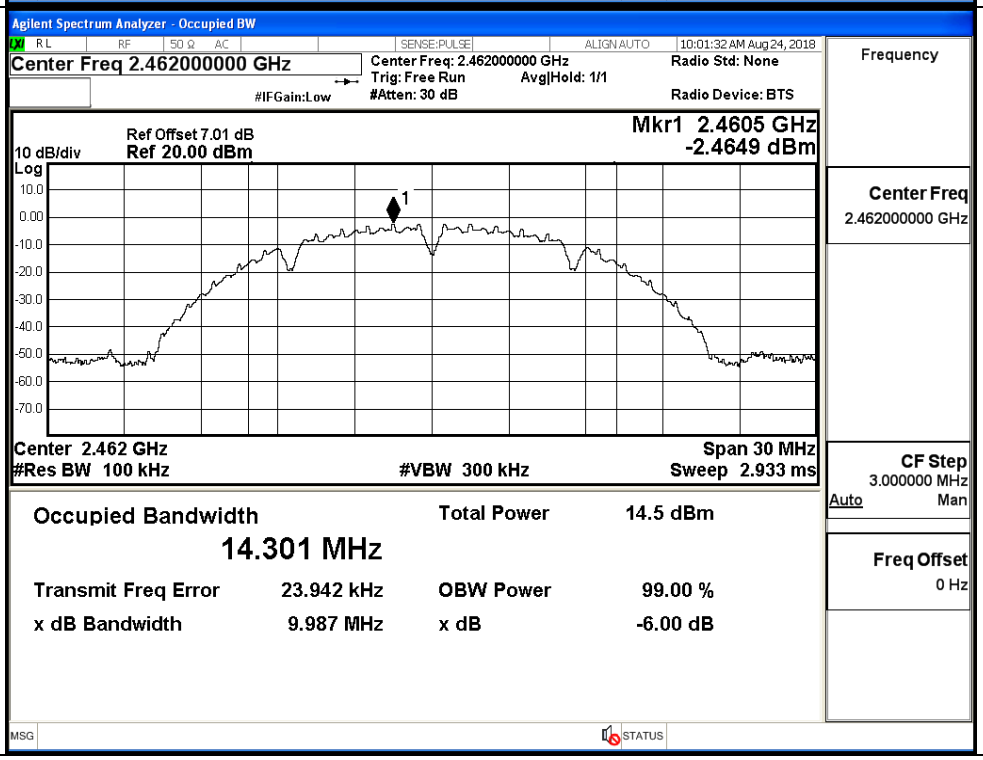
A.4 6dB Bandwidth

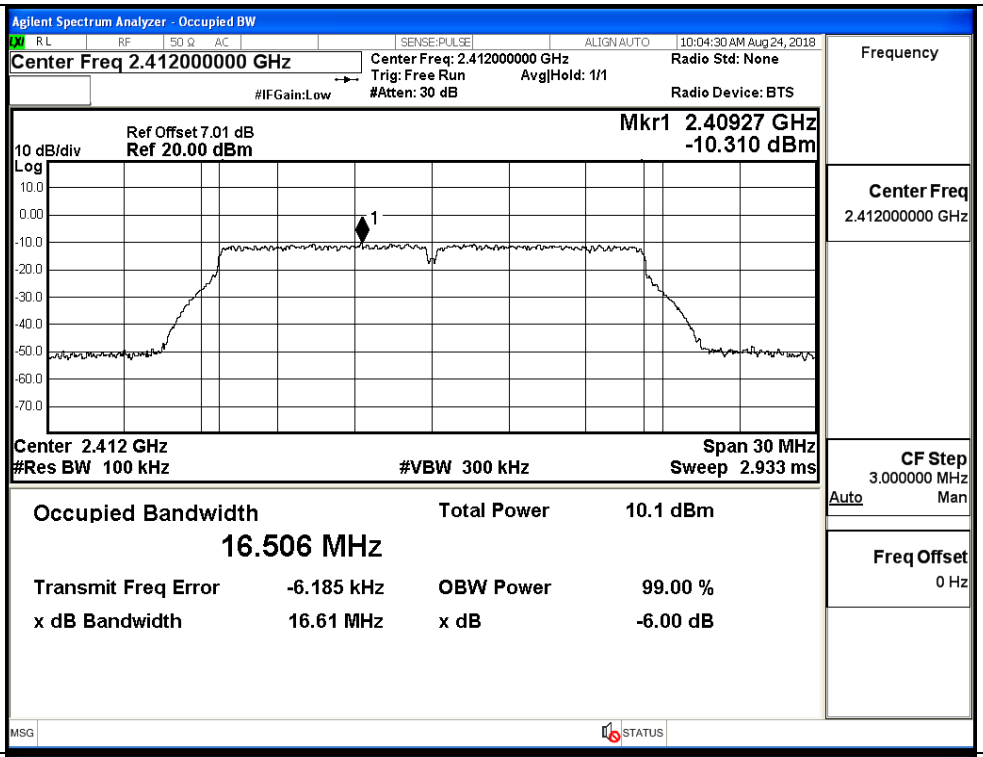
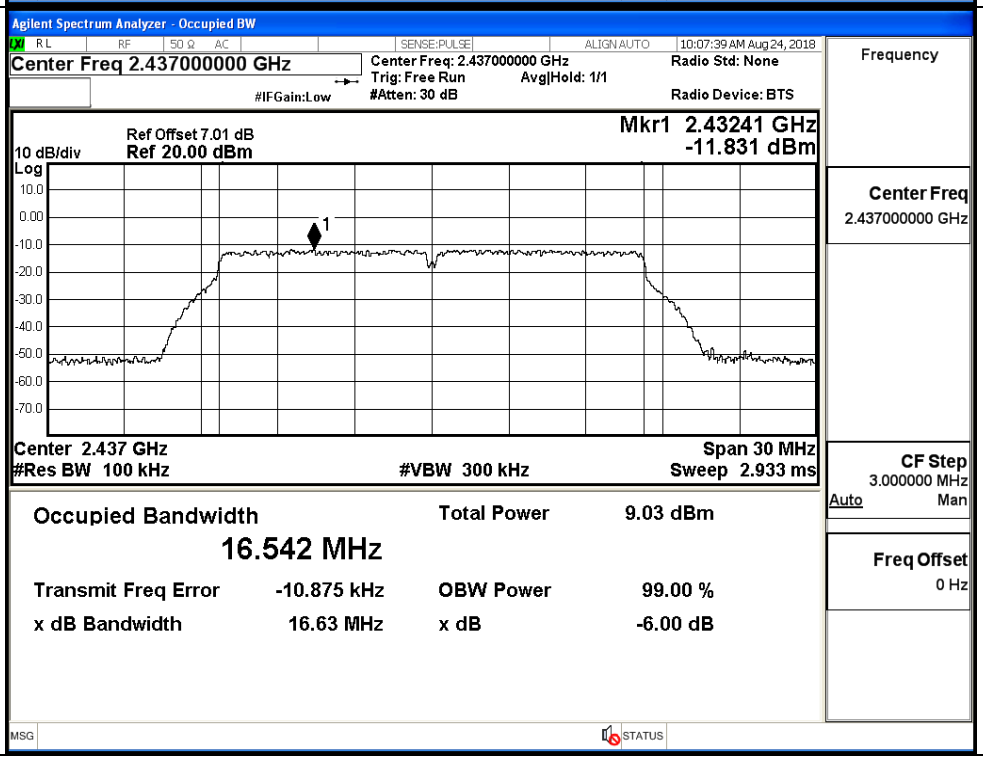
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.988	≥0.5	PASS
	MCH	9.990	≥0.5	PASS
	HCH	9.987	≥0.5	PASS
11G	LCH	16.61	≥0.5	PASS
	MCH	16.63	≥0.5	PASS
	HCH	16.62	≥0.5	PASS
11N20SISO	LCH	17.82	≥0.5	PASS
	MCH	17.82	≥0.5	PASS
	HCH	17.84	≥0.5	PASS
11N40SISO	LCH	36.53	≥0.5	PASS
	MCH	36.49	≥0.5	PASS
	HCH	36.47	≥0.5	PASS

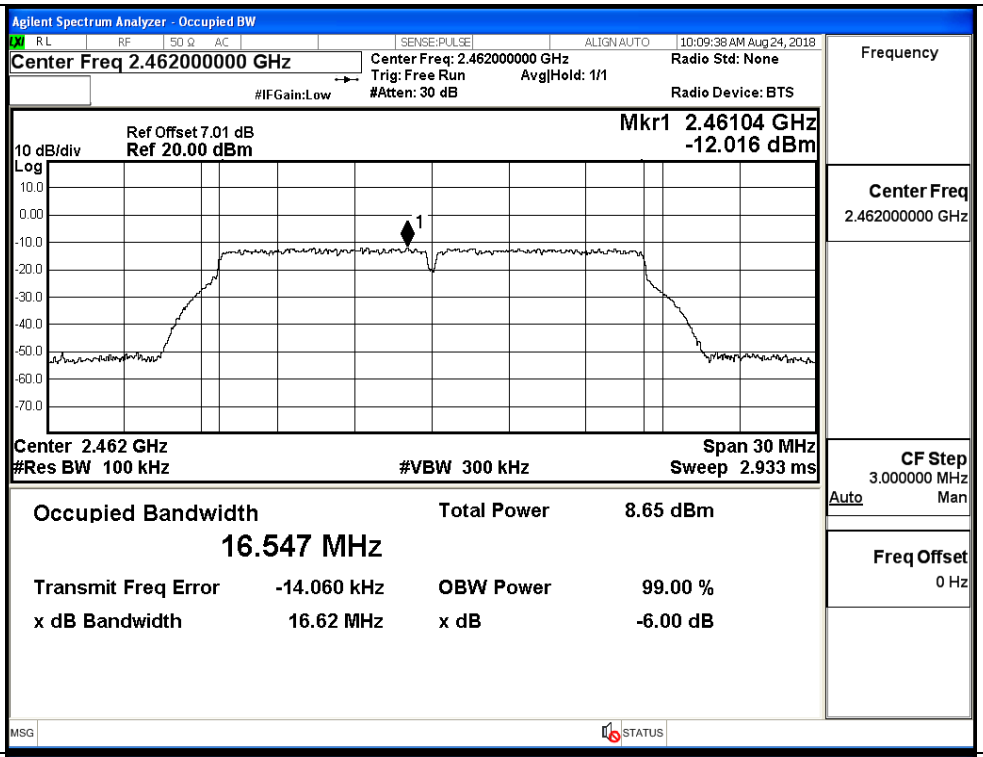
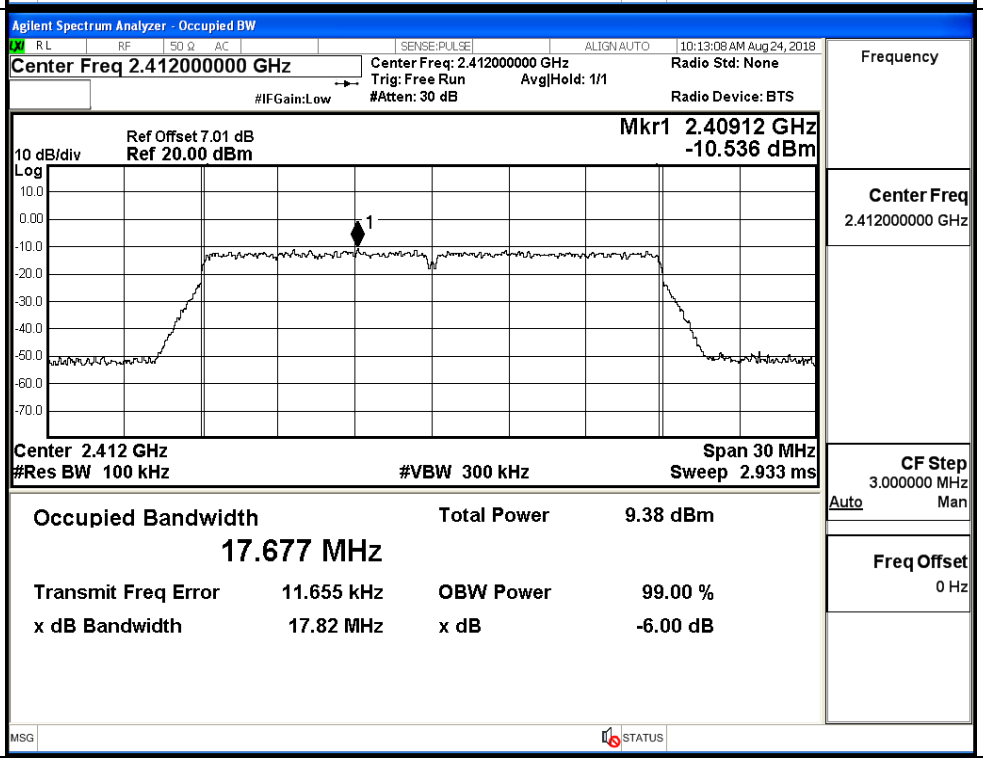
Test Graphs

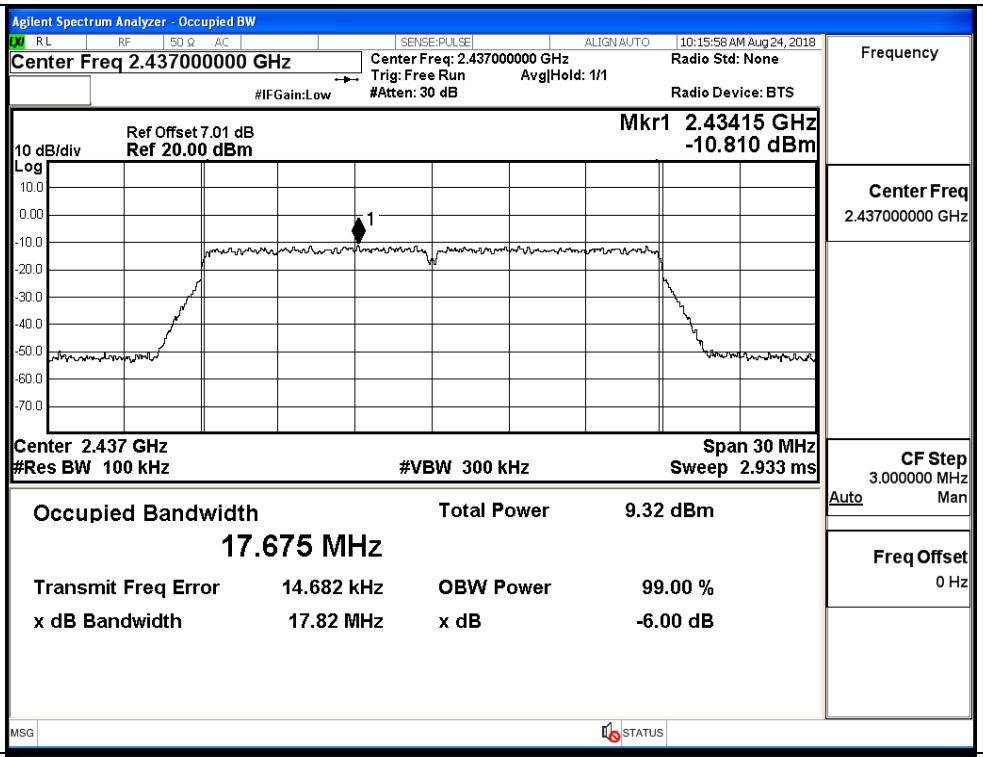
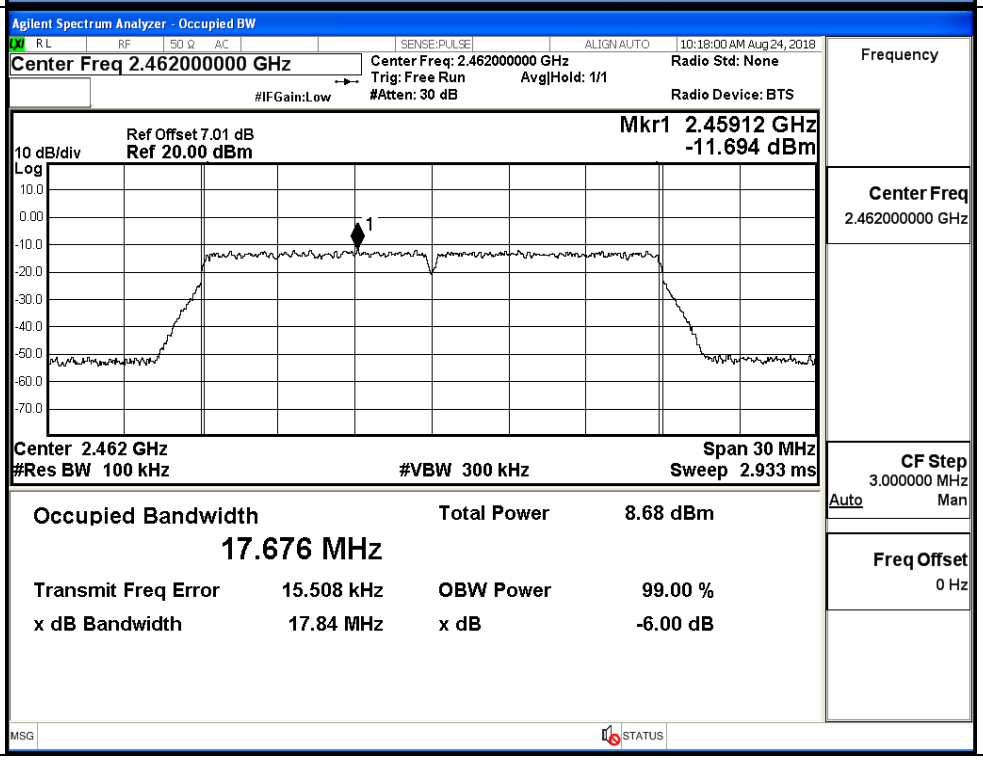
11B/LCH

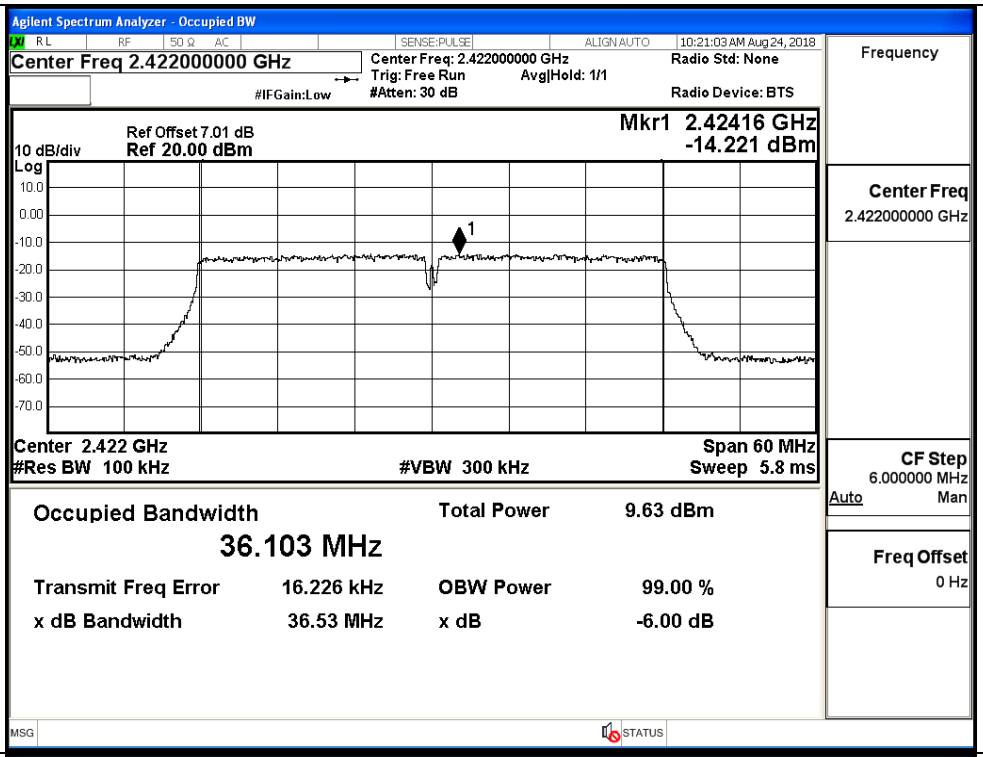
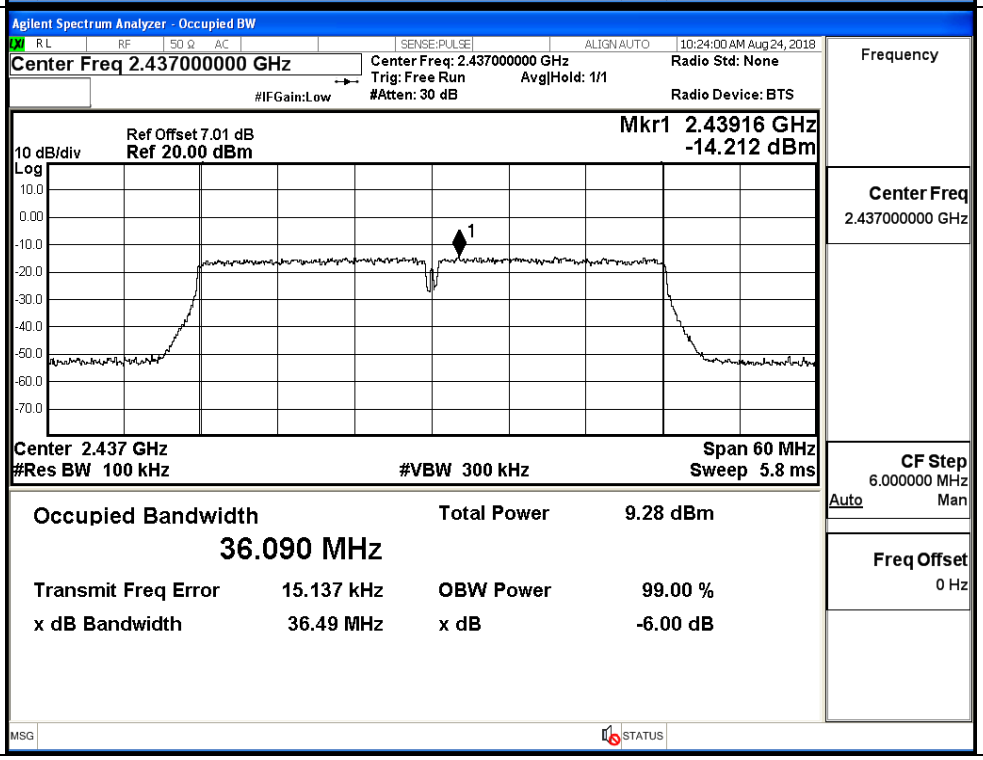


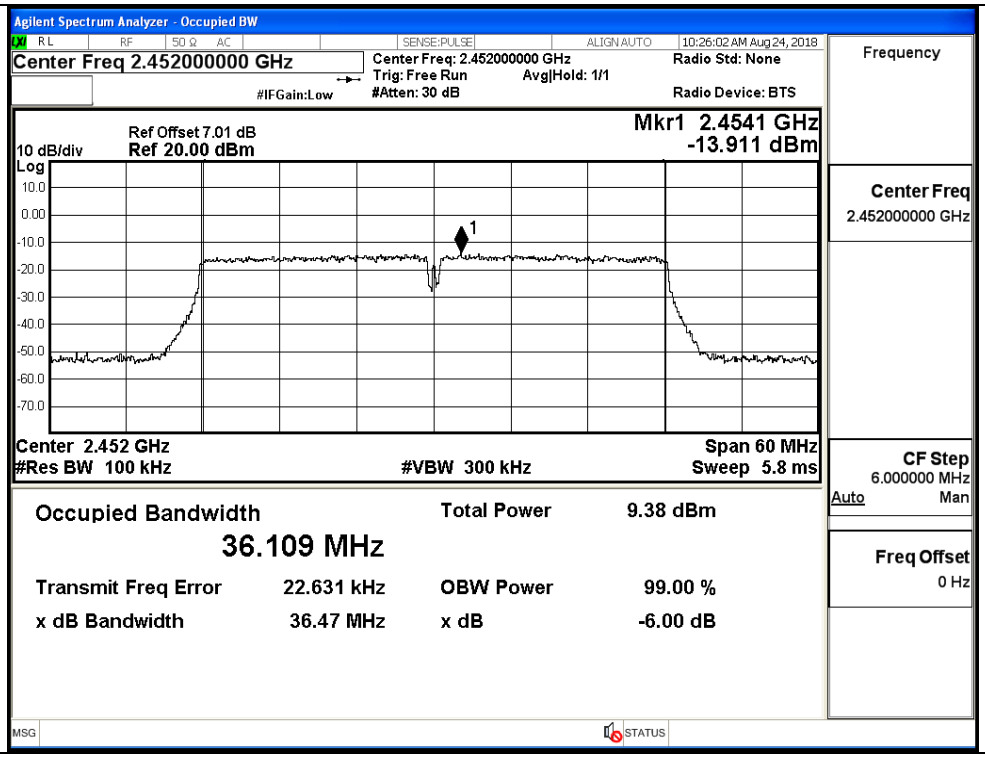
11B/MCH	
11B/HCH	

11G/LCH	
11G/MCH	

11G/HCH		
11N20SISO/LCH		

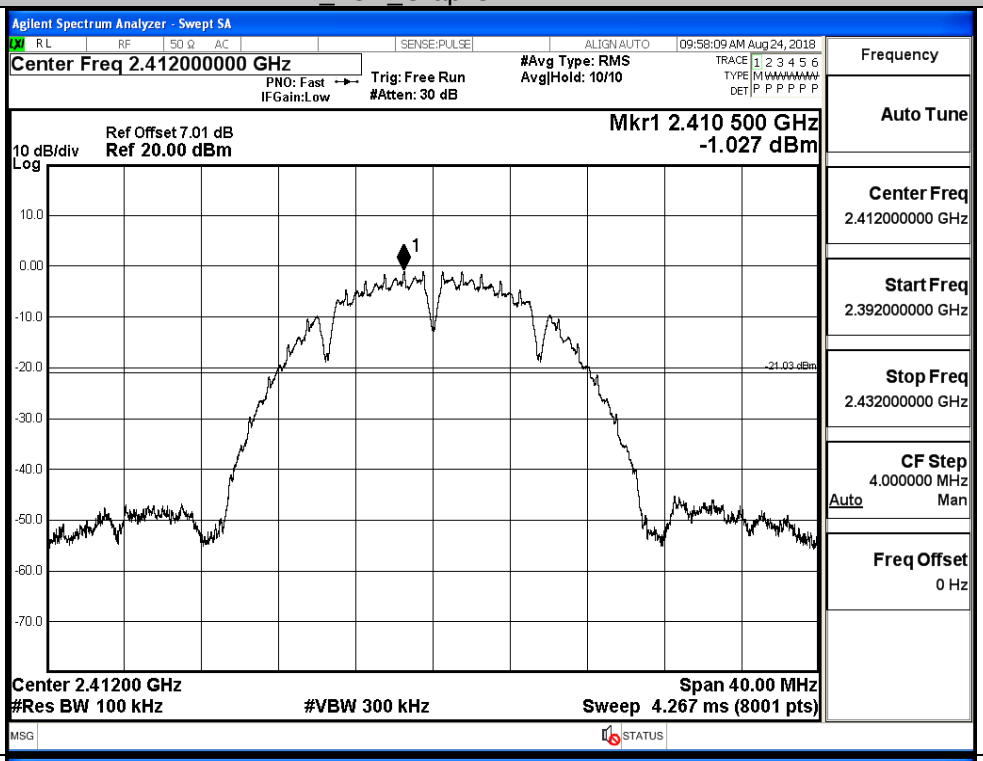
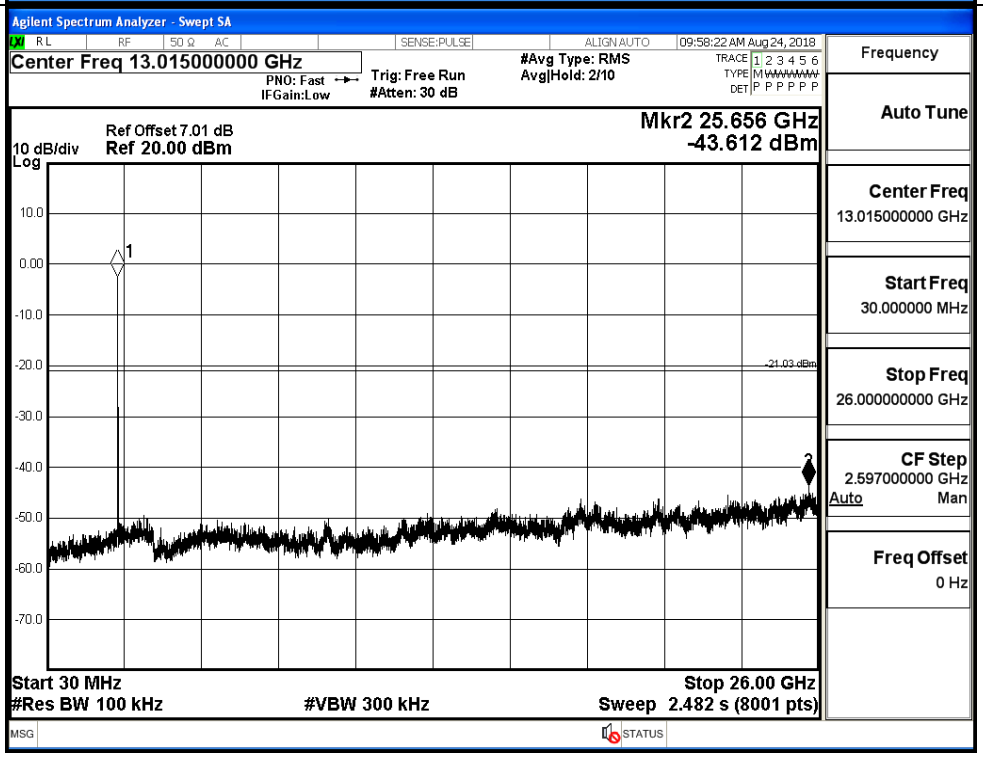
11N20SISO/MCH		
11N20SISO/HCH		

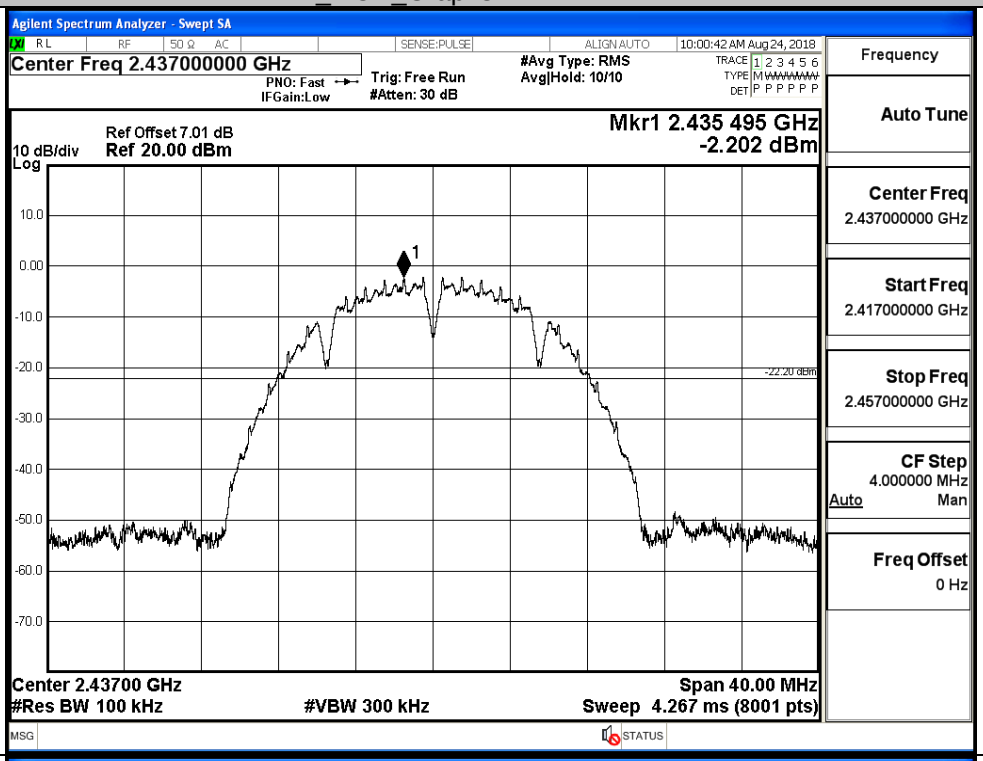
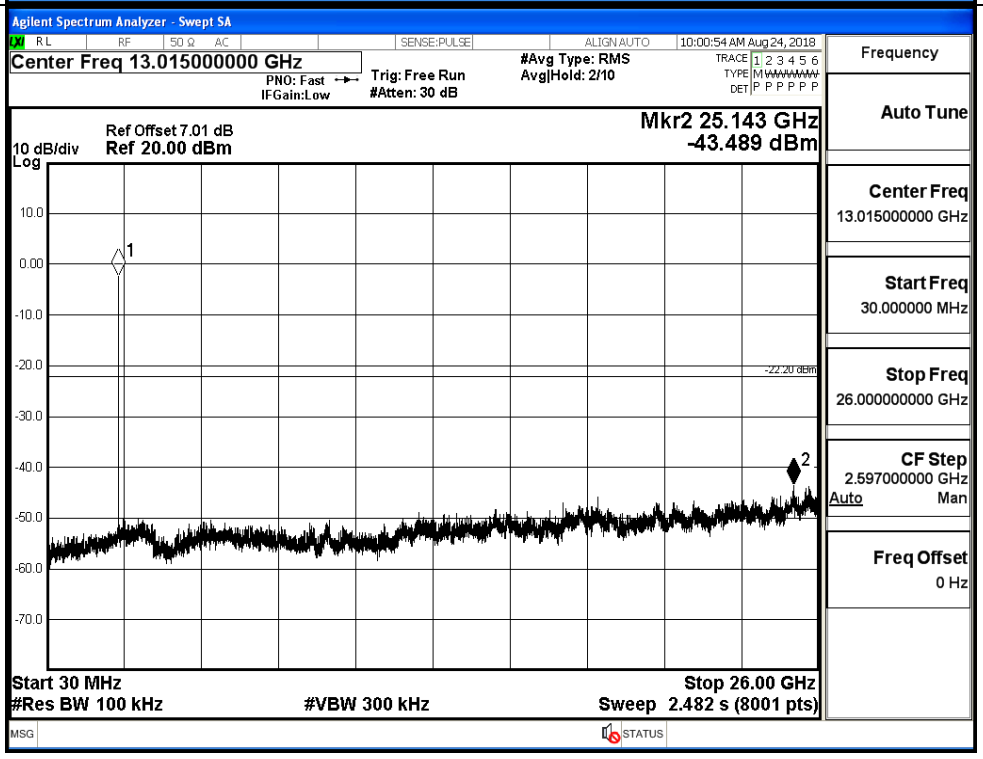
11N40SISO/LCH	
11N40SISO/MCH	

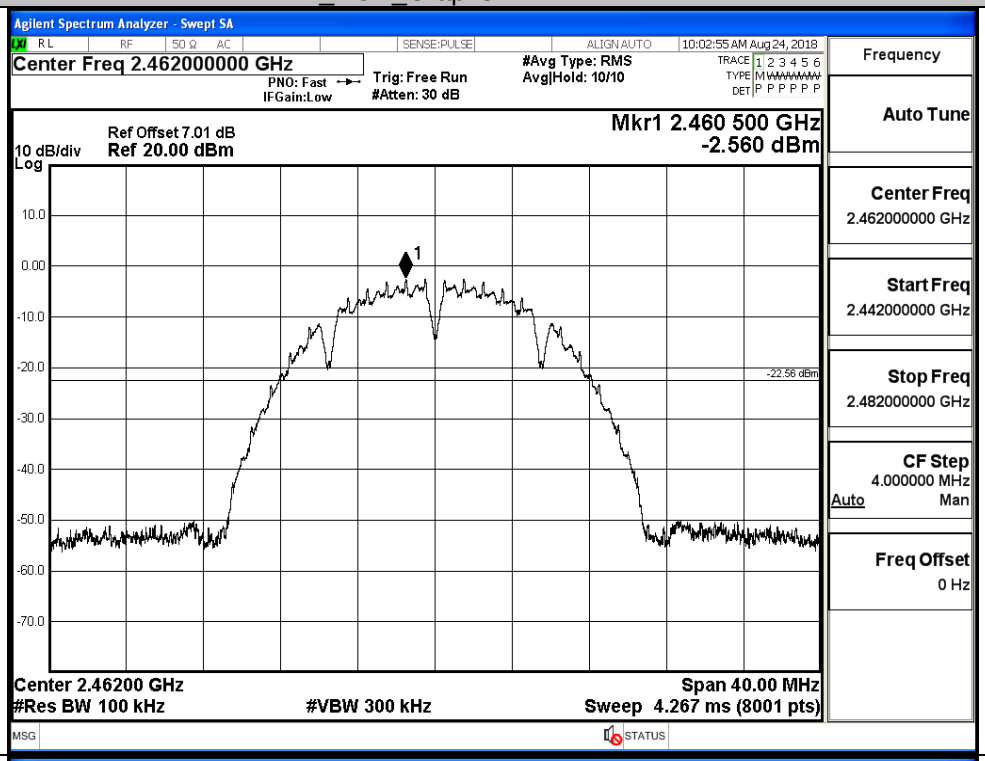
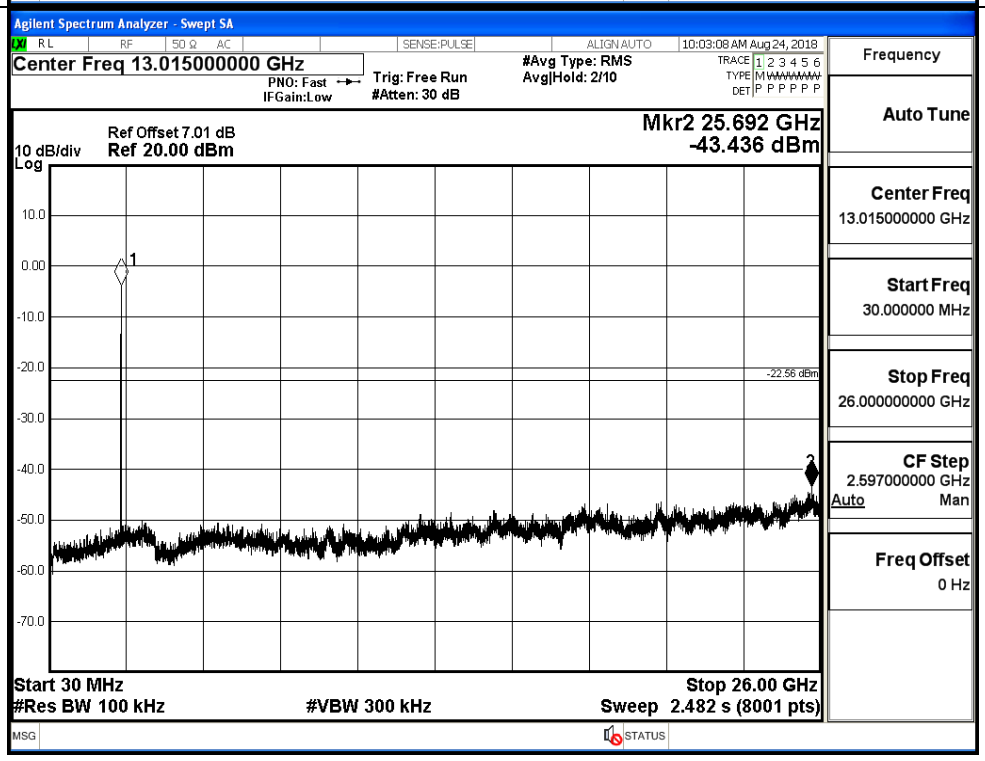
11N40SISO/HCH	

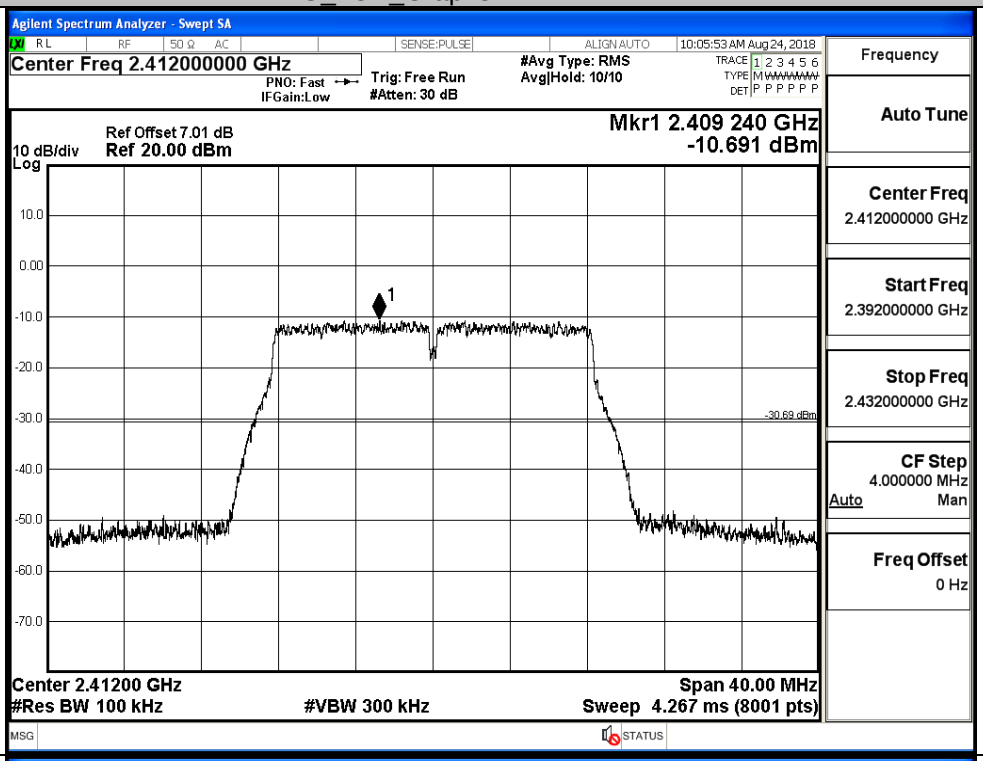
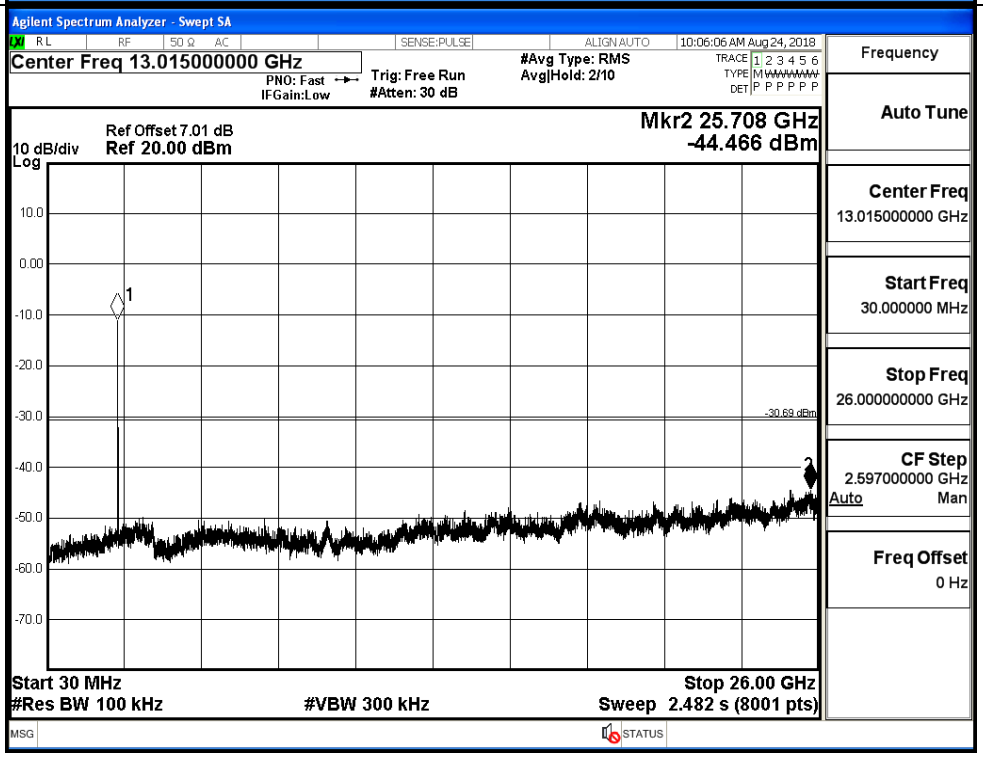
A.5 RF Conducted Spurious Emissions

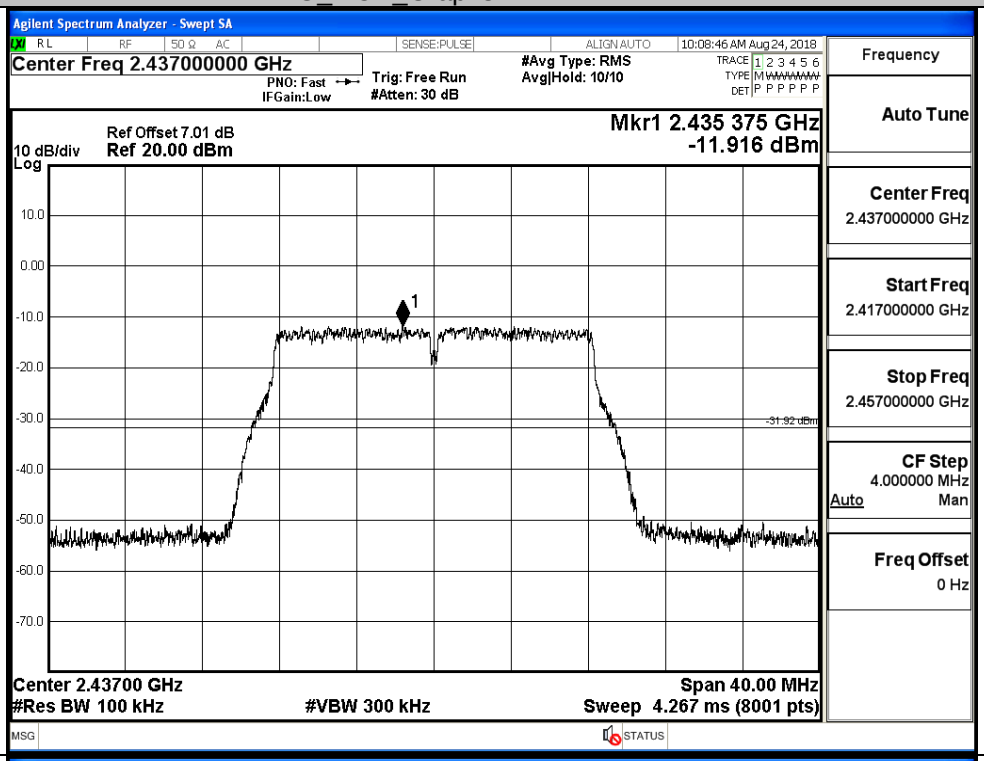
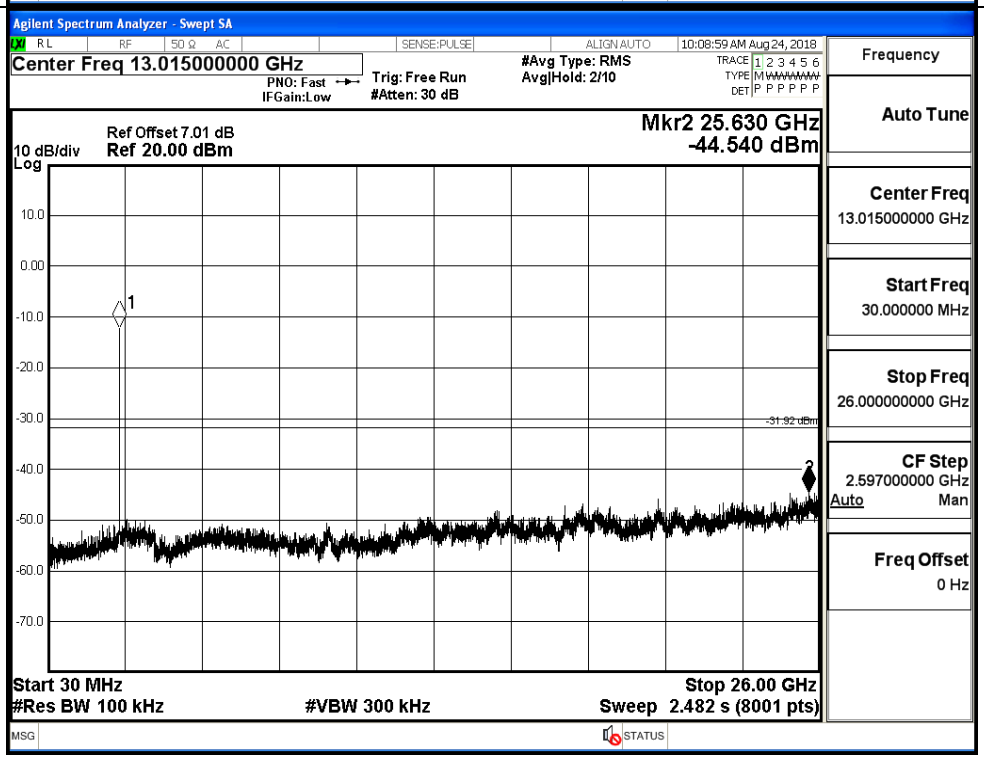
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-1.027	-44.963	-21.027	PASS
	MCH	-2.202	-43.489	-22.202	PASS
	HCH	-2.56	-43.436	-22.560	PASS
11G	LCH	-10.691	-44.466	-30.691	PASS
	MCH	-11.916	-44.540	-31.916	PASS
	HCH	-12.125	-45.240	-32.125	PASS
11N20 SISO	LCH	-10.957	-45.102	-30.957	PASS
	MCH	-10.651	-44.896	-30.651	PASS
	HCH	-11.677	-44.962	-31.677	PASS
11N40 SISO	LCH	-14.356	-44.940	-34.356	PASS
	MCH	-14.577	-45.051	-34.577	PASS
	HCH	-14.456	-45.330	-34.456	PASS

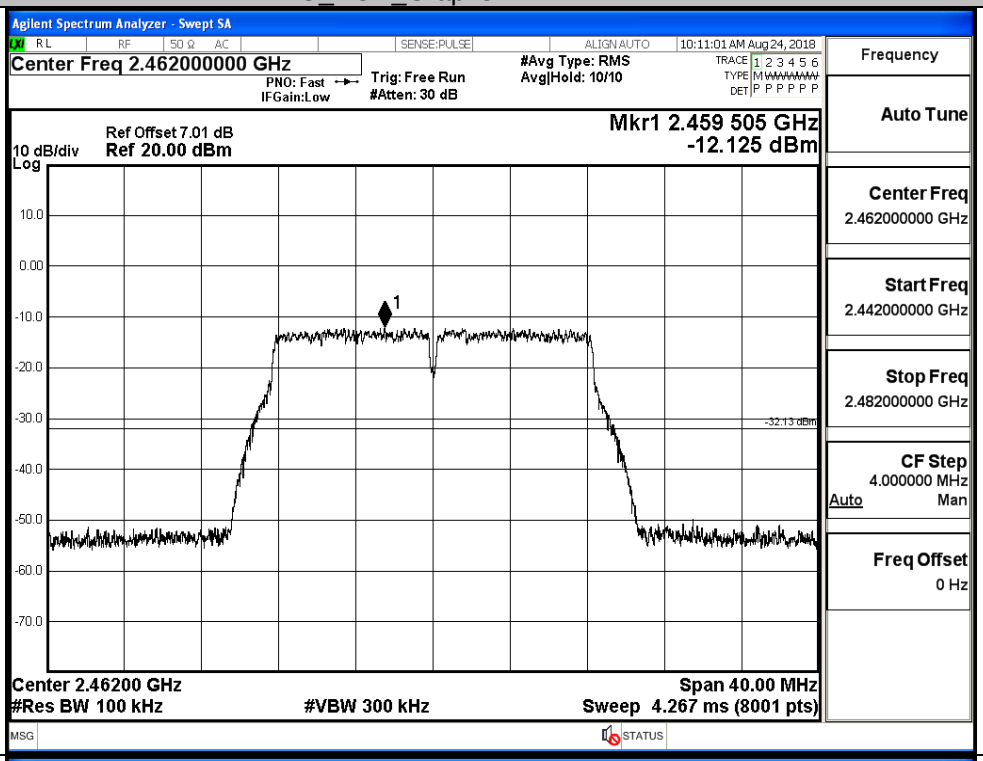
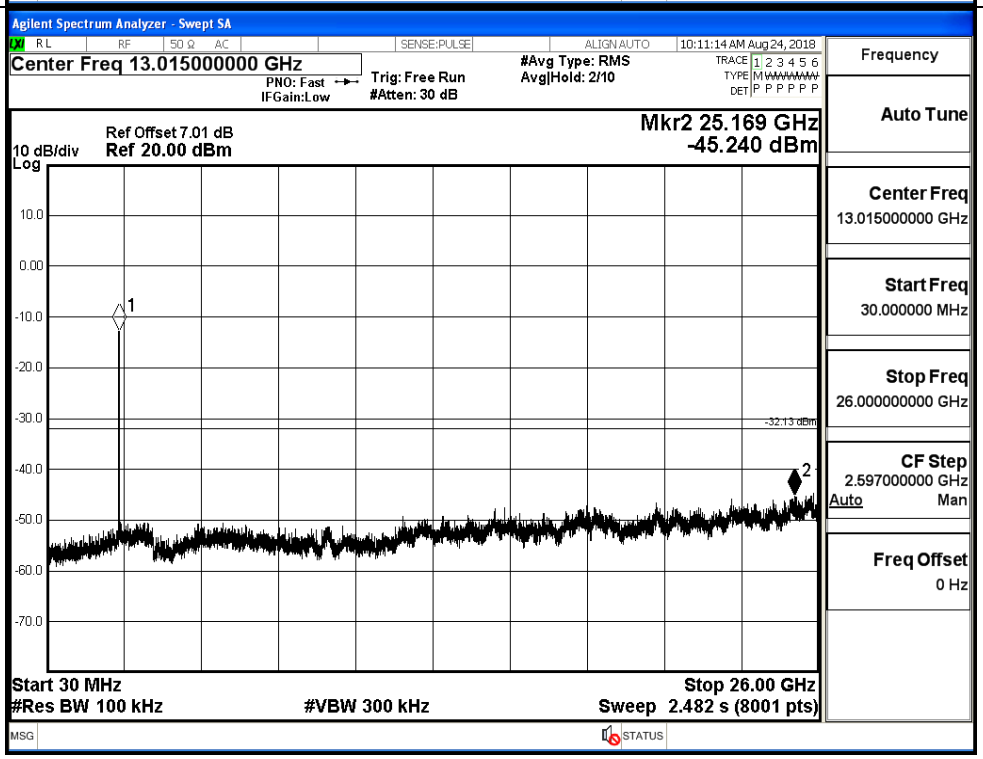
11B_LCH_Graphs	
Pref/11B/LCH	
Puw/11B/LCH	

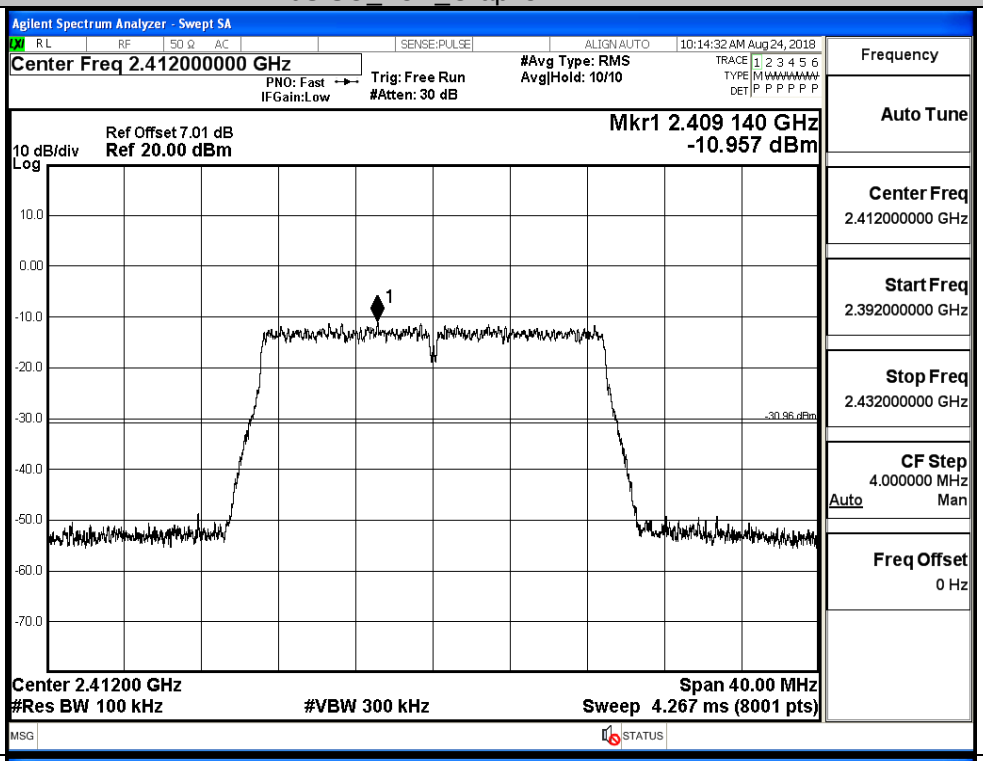
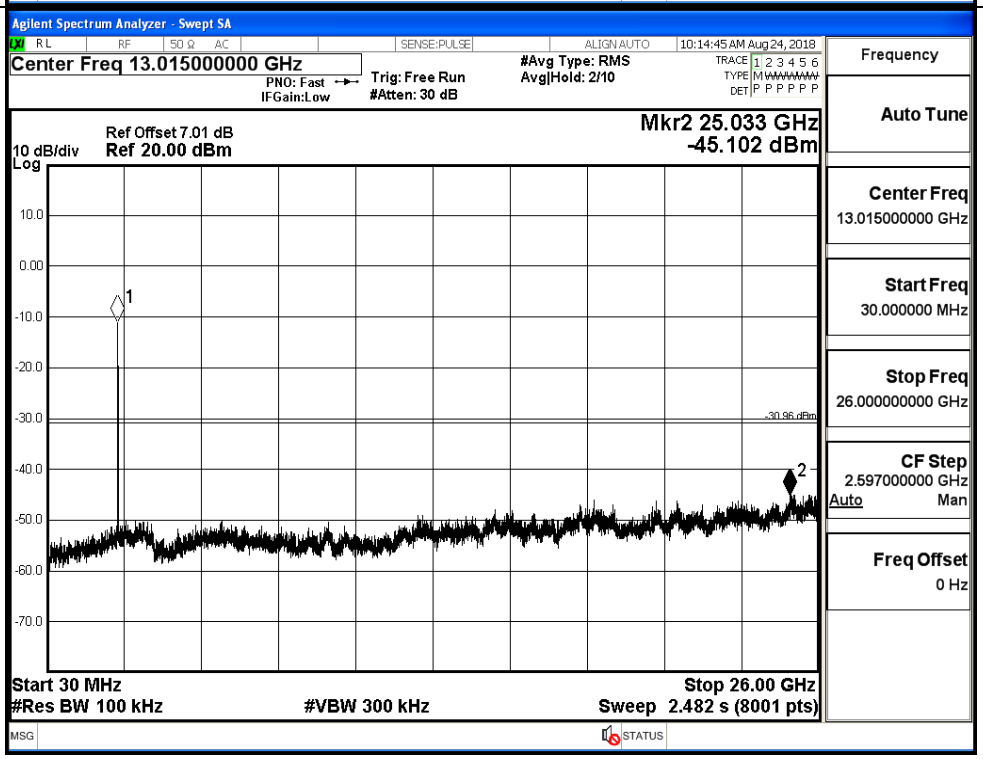
11B_MCH_Graphs	
Pref/11B/MCH	
Puw/11B/MCH	

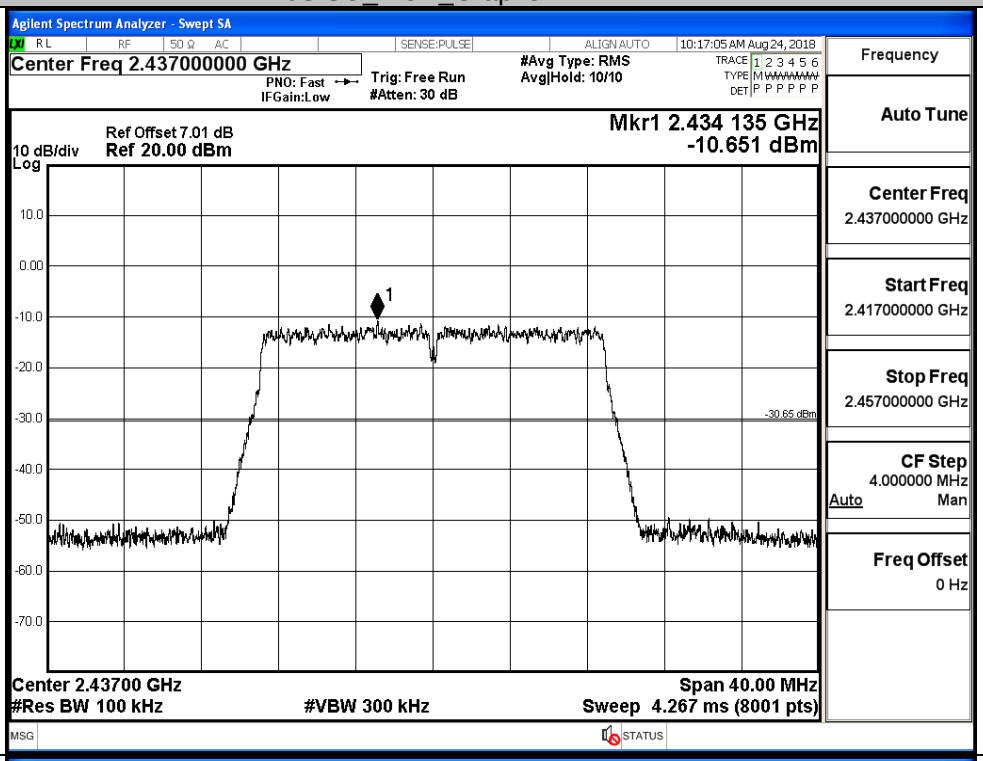
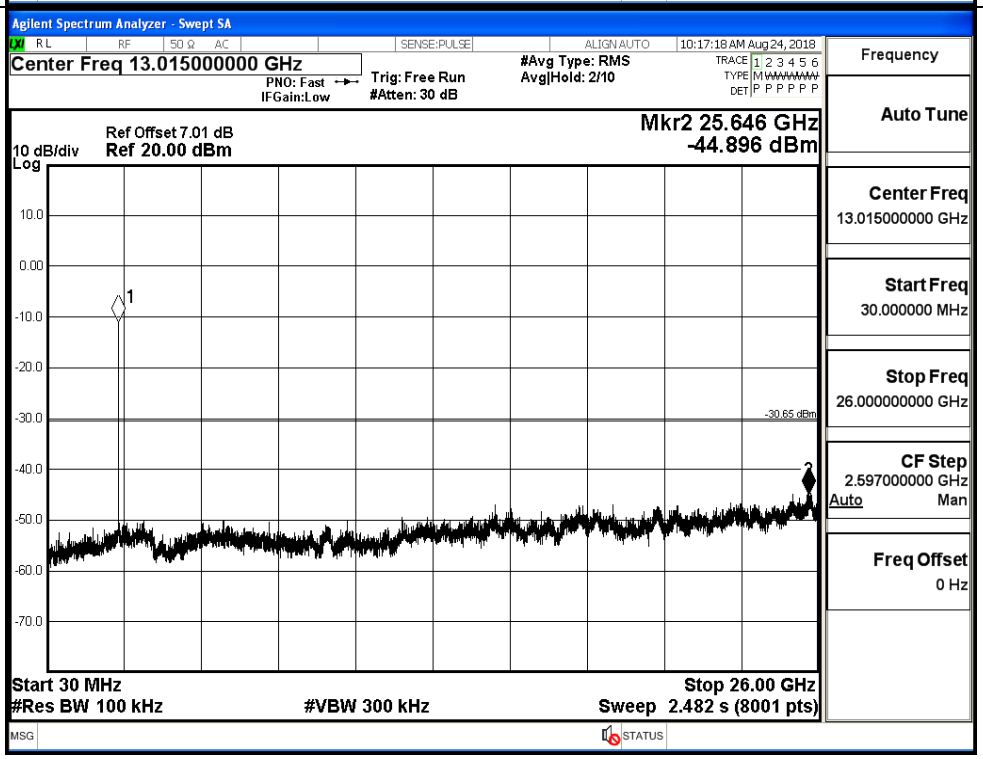
11B_HCH_Graphs	
Pref/11B/HCH	
Puw/11B/HCH	

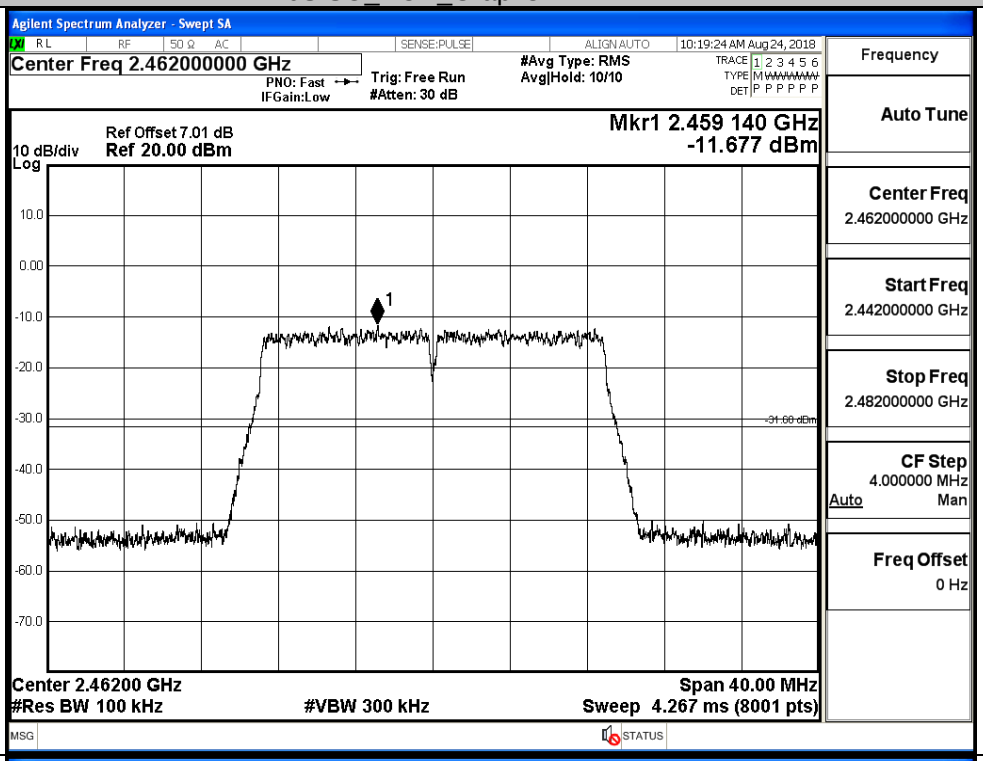
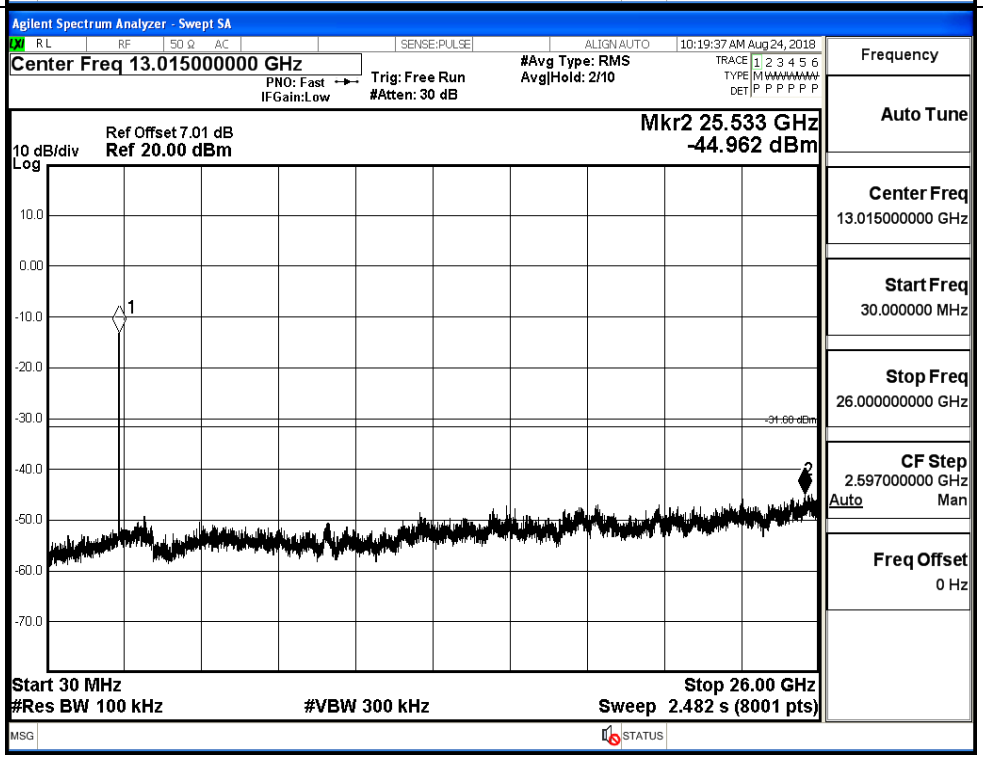
11G_LCH_Graphs	
Pref/11G/LCH	
Puw/11G/LCH	

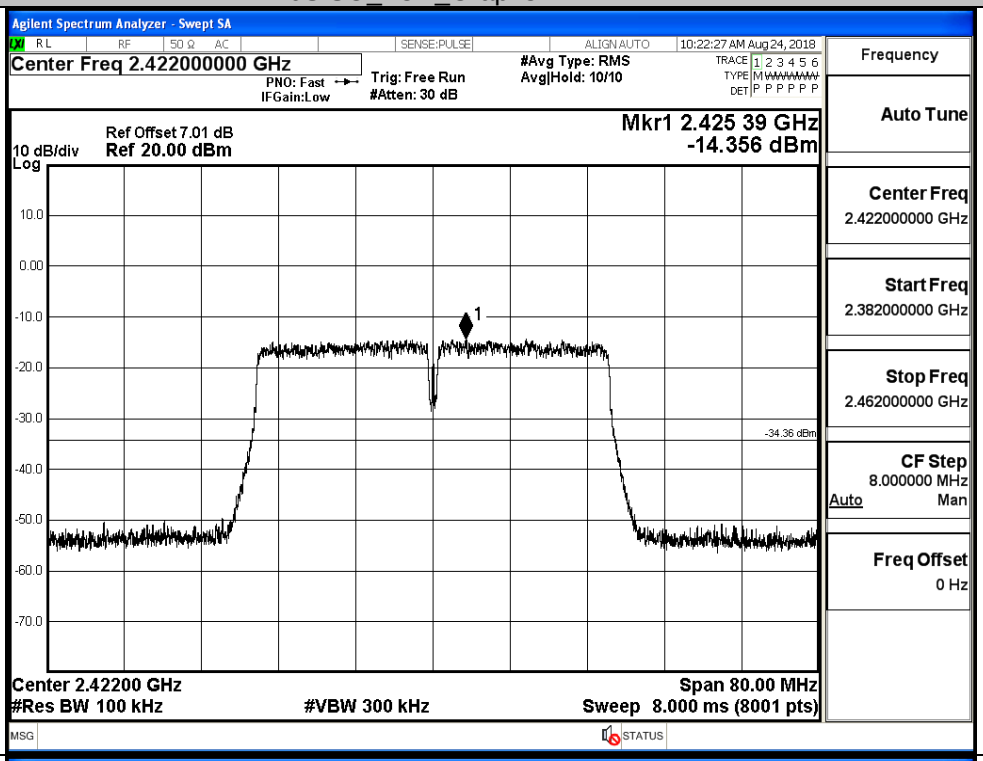
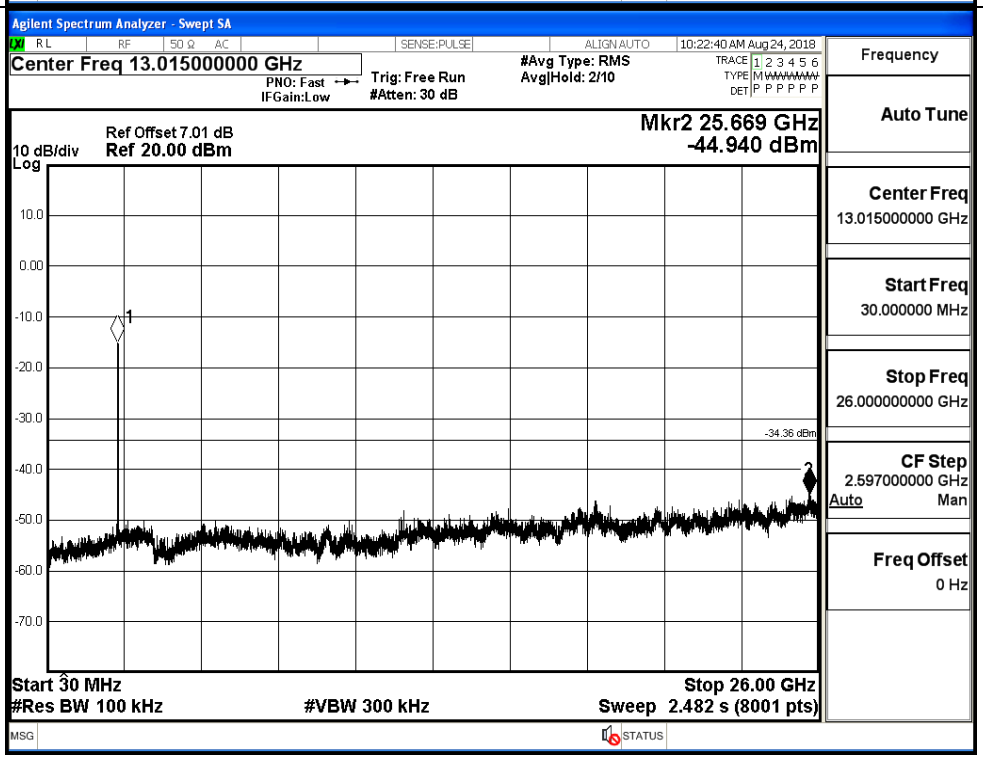
11G_MCH_Graphs	
Pref/11G/MCH	
Puw/11G/MCH	

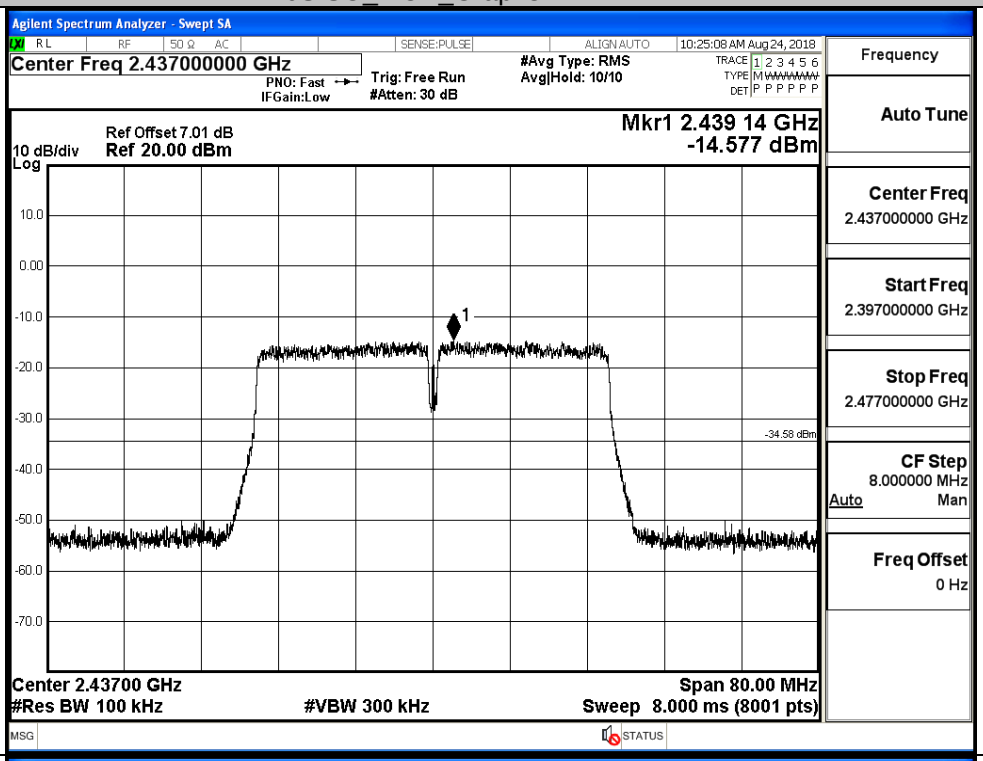
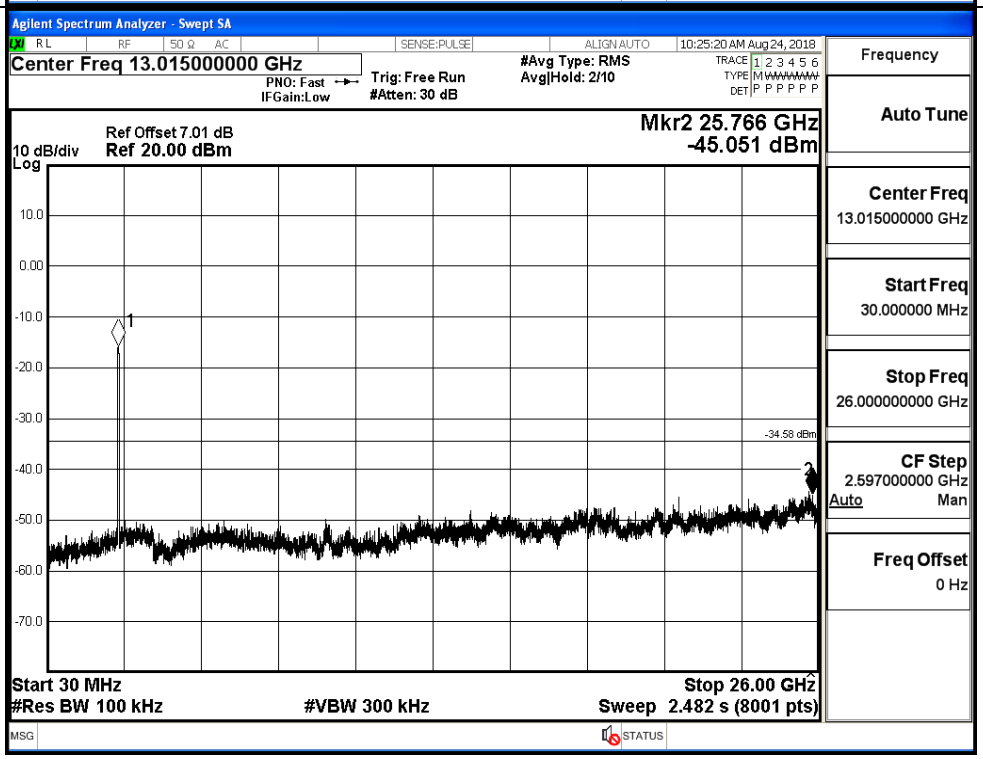
11G_HCH_Graphs	
Pref/11G/HCH	
Puw/11G/HCH	

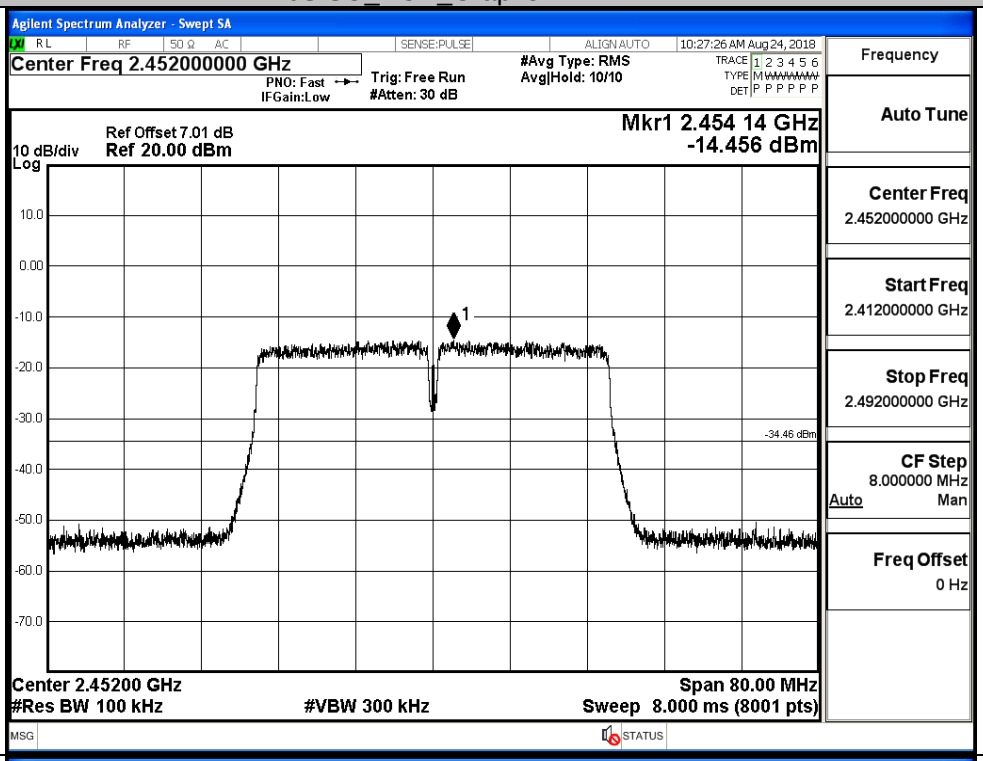
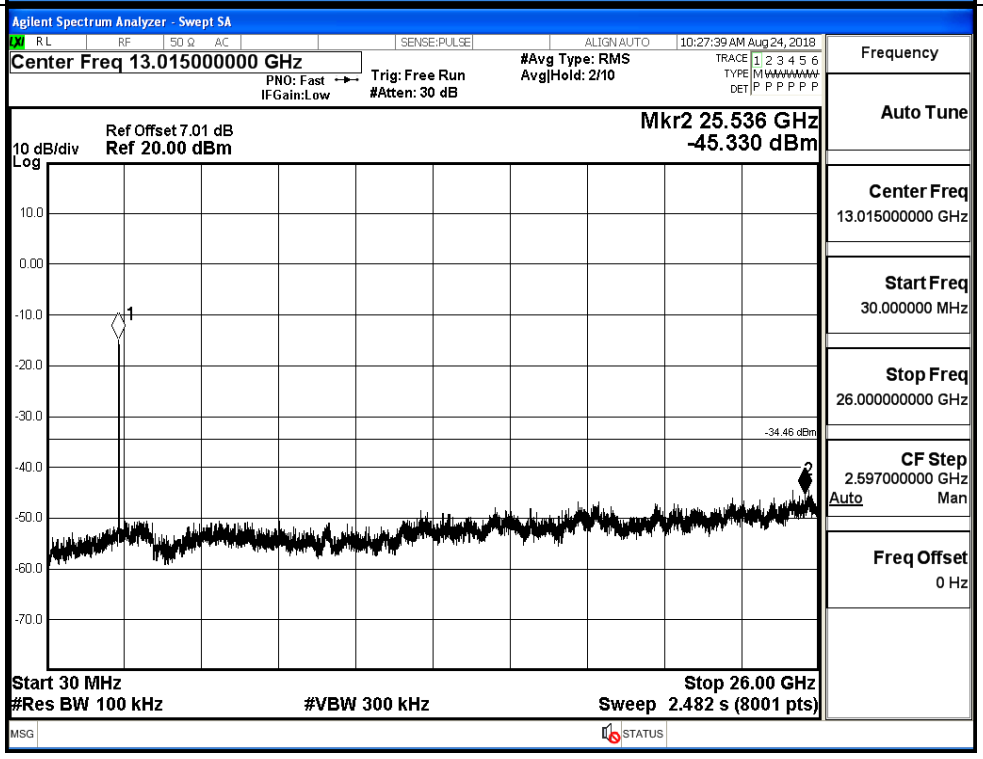
11N20SISO_LCH_Graphs	
Pref/11N20SISO/LCH	
Puw/11N20SISO/LCH	

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

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

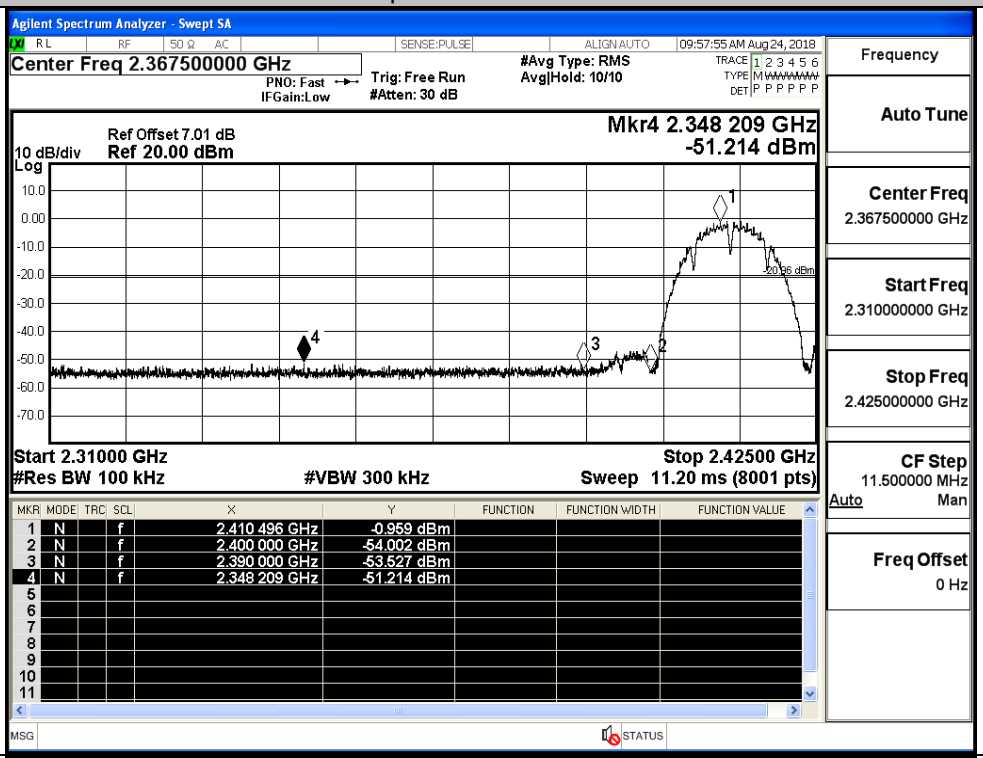
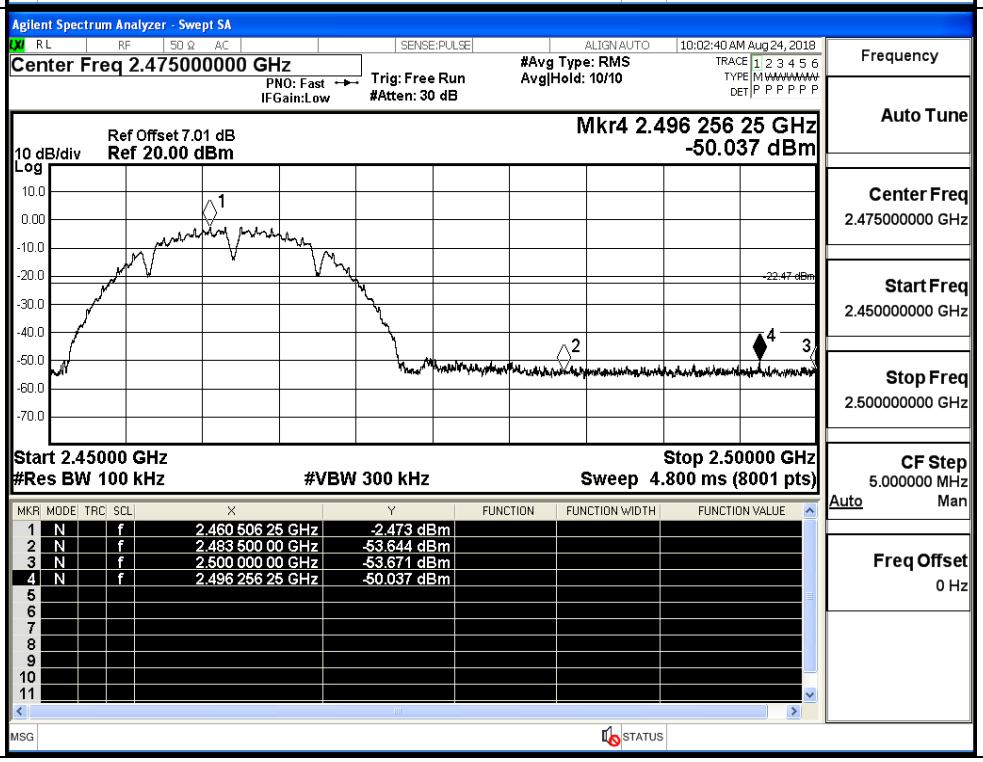
11N40SISO_LCH_Graphs	
Pref/11N40 SISO/LCH	
Puw/11N40 SISO/LCH	

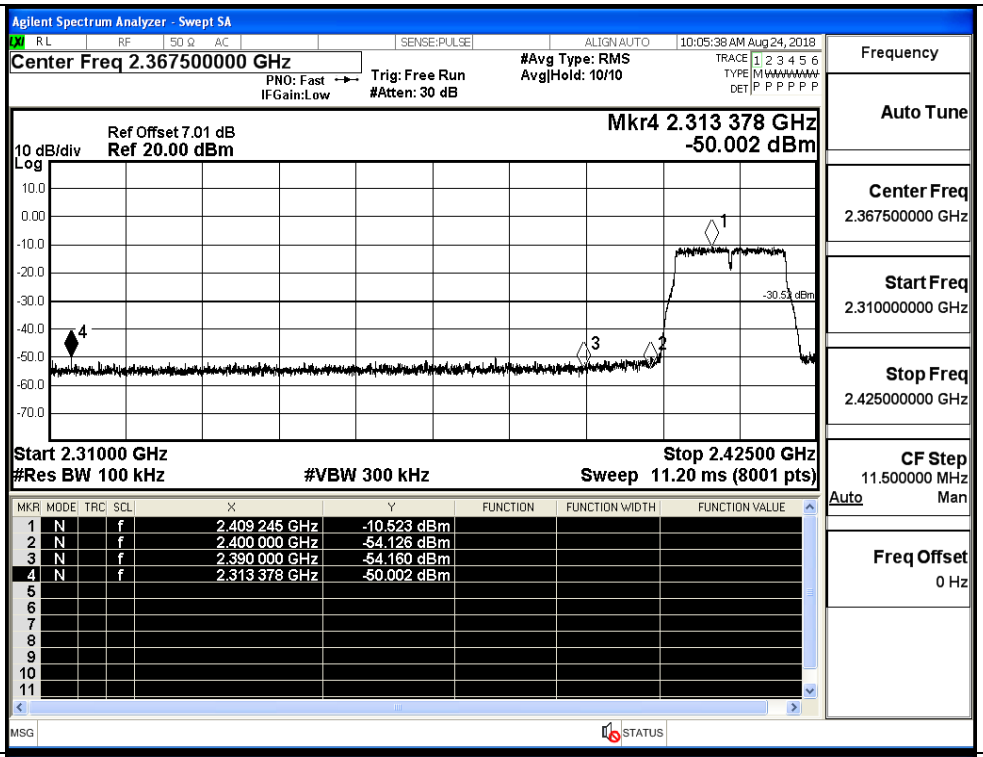
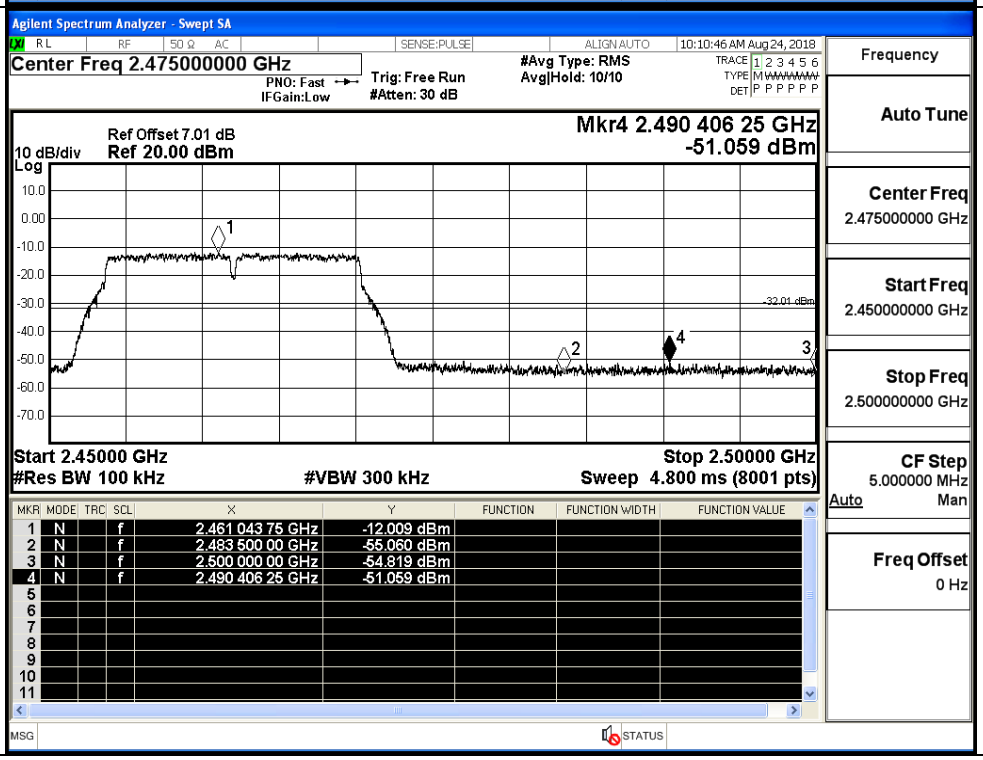
11N40SISO_MCH_Graphs	
Pref/11N40 SISO/MCH	
Puw/11N40 SISO/MCH	

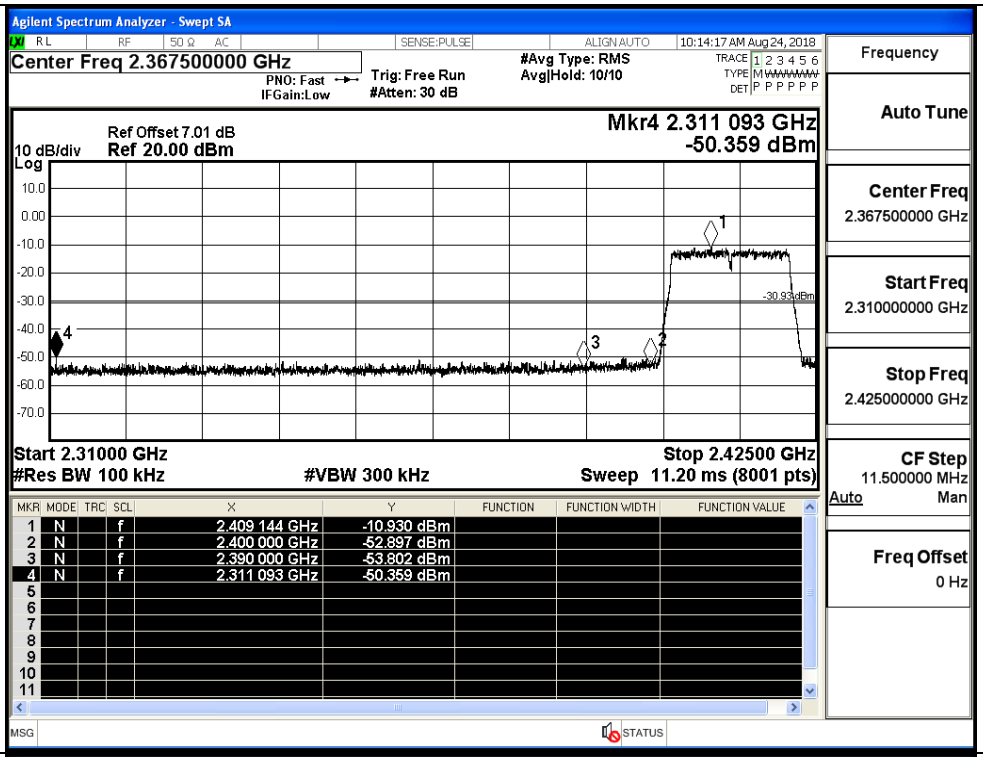
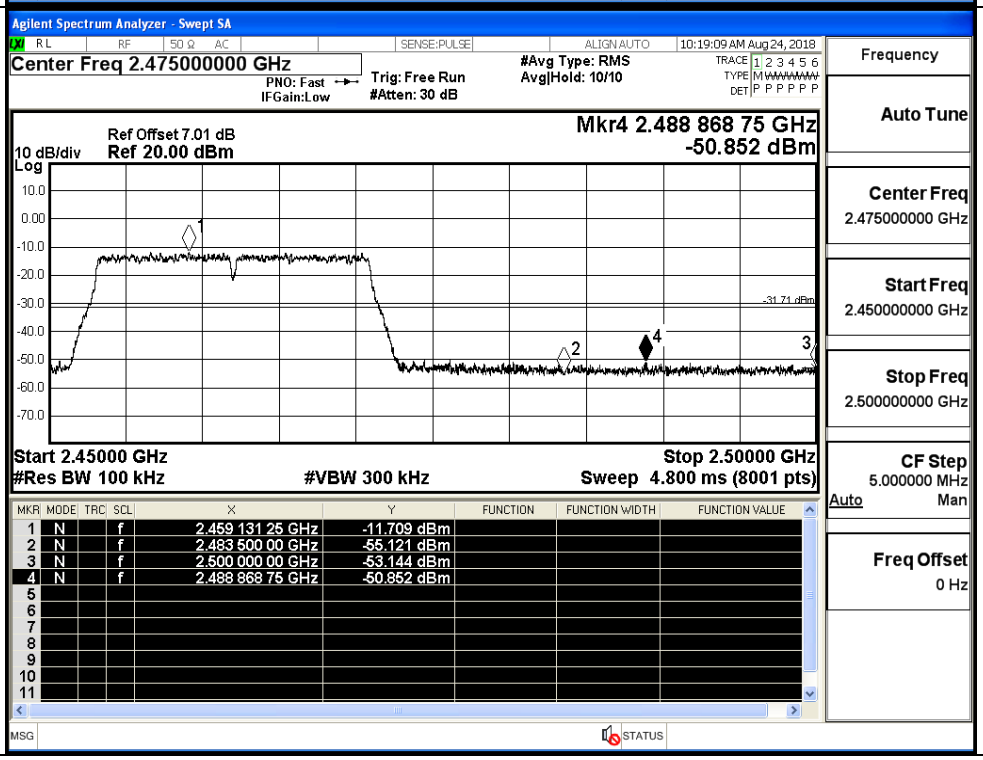
11N40SISO_HCH_Graphs	
Pref/11N40 SISO/HCH	
Puw/11N40 SISO/HCH	

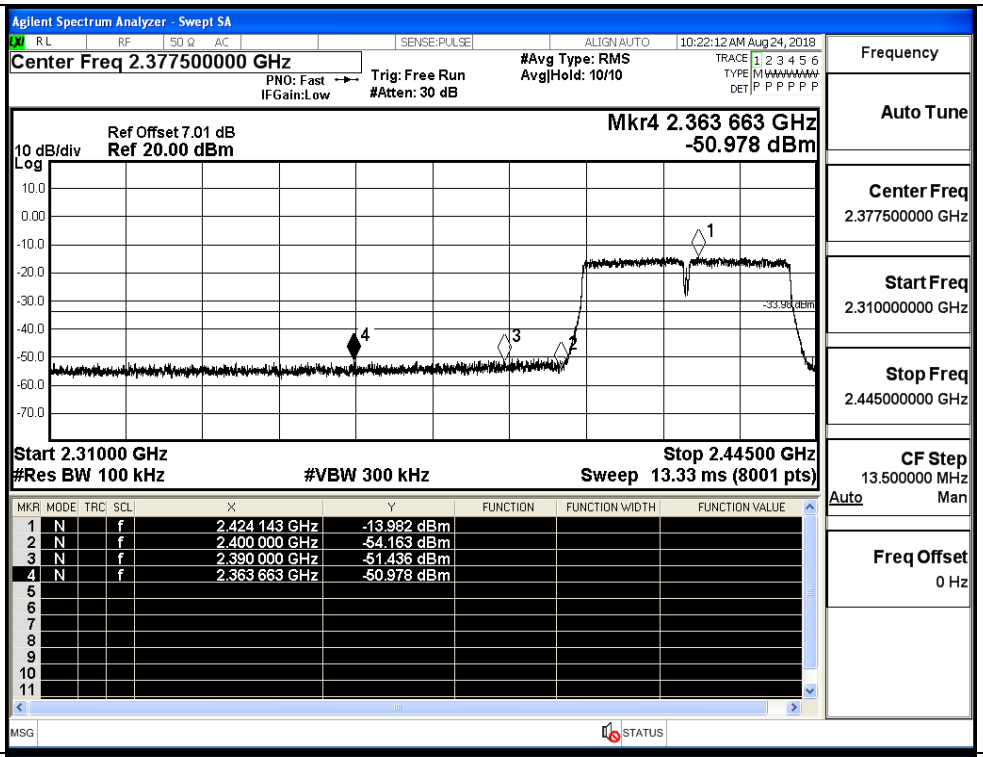
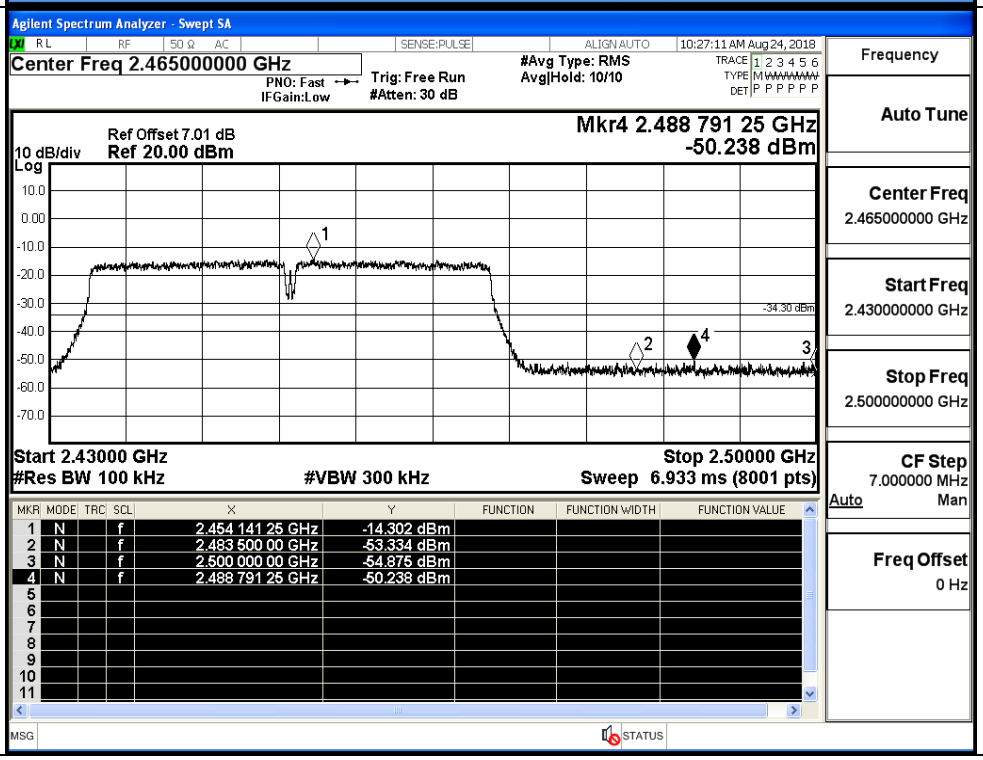
A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-0.959	-51.214	-20.96	PASS
	HCH	-2.473	-50.037	-22.47	PASS
11G	LCH	-10.523	-50.002	-30.52	PASS
	HCH	-12.009	-51.059	-32.01	PASS
11N20SISO	LCH	-10.930	-50.359	-30.93	PASS
	HCH	-11.709	-50.852	-31.71	PASS
11N40SISO	LCH	-13.982	-50.978	-33.98	PASS
	HCH	-14.302	-50.238	-34.3	PASS

Test Graphs	
11B/LCH	
11B/HCH	

11G/LCH	
11G/HCH	

11N20SISO/LCH	
11N20SISO/HCH	

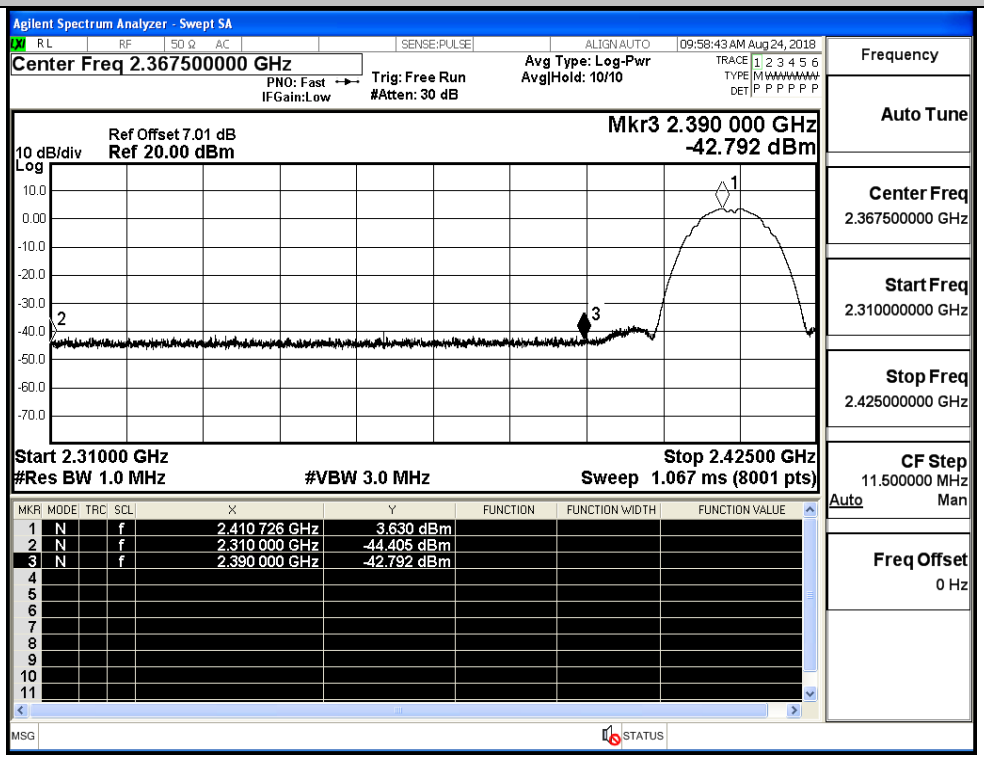
11N40SISO/LCH		
11N40SISO/HCH		

A.7 Restrict-band band-edge measurements

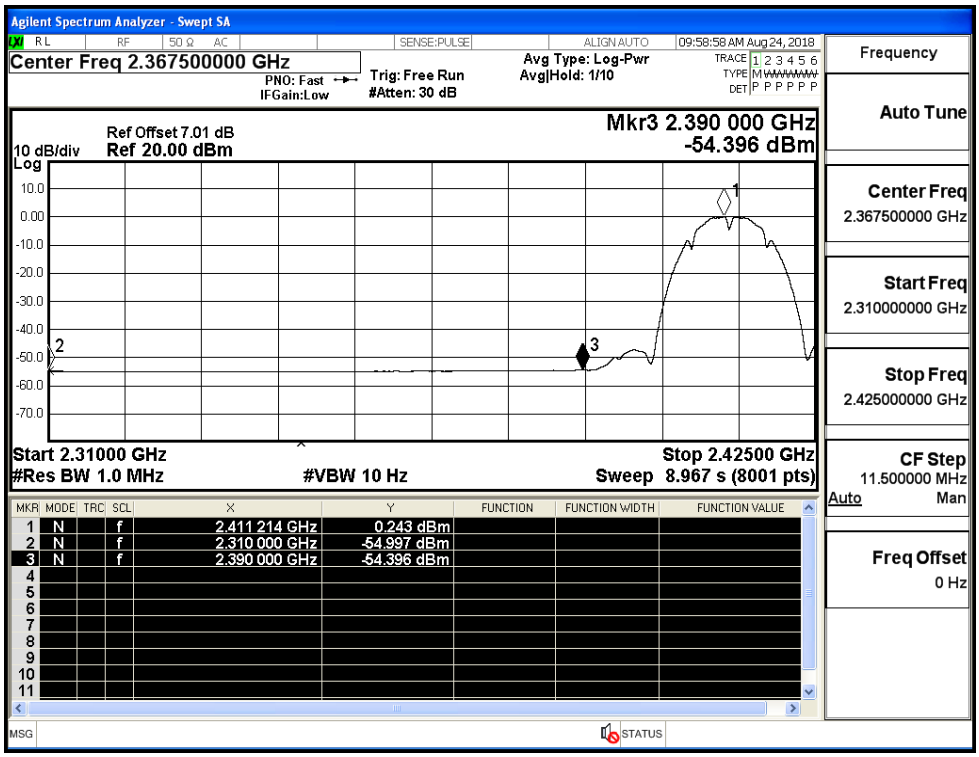
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-44.41	2.0	0	52.85	PEAK	74	PASS
	2412	Ant1	2310.0	-55.00	2.0	0	42.26	AV	54	PASS
	2412	Ant1	2390.0	-42.79	2.0	0	54.47	PEAK	74	PASS
	2412	Ant1	2390.0	-54.40	2.0	0	42.86	AV	54	PASS
	2462	Ant1	2483.5	-42.12	2.0	0	55.14	PEAK	74	PASS
	2462	Ant1	2483.5	-54.37	2.0	0	42.89	AV	54	PASS
	2462	Ant1	2500.0	-43.86	2.0	0	53.40	PEAK	74	PASS
	2462	Ant1	2500.0	-54.34	2.0	0	42.92	AV	54	PASS
11G	2412	Ant1	2310.0	-43.97	2.0	0	53.29	PEAK	74	PASS
	2412	Ant1	2310.0	-55.00	2.0	0	42.25	AV	54	PASS
	2412	Ant1	2390.0	-42.54	2.0	0	54.72	PEAK	74	PASS
	2412	Ant1	2390.0	-54.15	2.0	0	43.11	AV	54	PASS
	2462	Ant1	2483.5	-42.68	2.0	0	54.58	PEAK	74	PASS
	2462	Ant1	2483.5	-54.22	2.0	0	43.03	AV	54	PASS
	2462	Ant1	2500.0	-44.05	2.0	0	53.21	PEAK	74	PASS
	2462	Ant1	2500.0	-54.23	2.0	0	43.03	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-42.29	2.0	0	54.97	PEAK	74	PASS
	2412	Ant1	2310.0	-54.98	2.0	0	42.28	AV	54	PASS
	2412	Ant1	2390.0	-41.92	2.0	0	55.33	PEAK	74	PASS
	2412	Ant1	2390.0	-54.07	2.0	0	43.19	AV	54	PASS
	2462	Ant1	2483.5	-43.43	2.0	0	53.83	PEAK	74	PASS
	2462	Ant1	2483.5	-54.13	2.0	0	43.12	AV	54	PASS
	2462	Ant1	2500.0	-43.33	2.0	0	53.93	PEAK	74	PASS
	2462	Ant1	2500.0	-54.17	2.0	0	43.09	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-45.04	2.0	0	52.22	PEAK	74	PASS
	2422	Ant1	2310.0	-55.01	2.0	0	42.25	AV	54	PASS

	2422	Ant1	2390.0	-42.81	2.0	0	54.44	PEAK	74	PASS
	2422	Ant1	2390.0	-53.73	2.0	0	43.53	AV	54	PASS
	2452	Ant1	2483.5	-43.67	2.0	0	53.59	PEAK	74	PASS
	2452	Ant1	2483.5	-54.01	2.0	0	43.24	AV	54	PASS
	2452	Ant1	2500.0	-44.05	2.0	0	53.21	PEAK	74	PASS
	2452	Ant1	2500.0	-54.16	2.0	0	43.10	AV	54	PASS

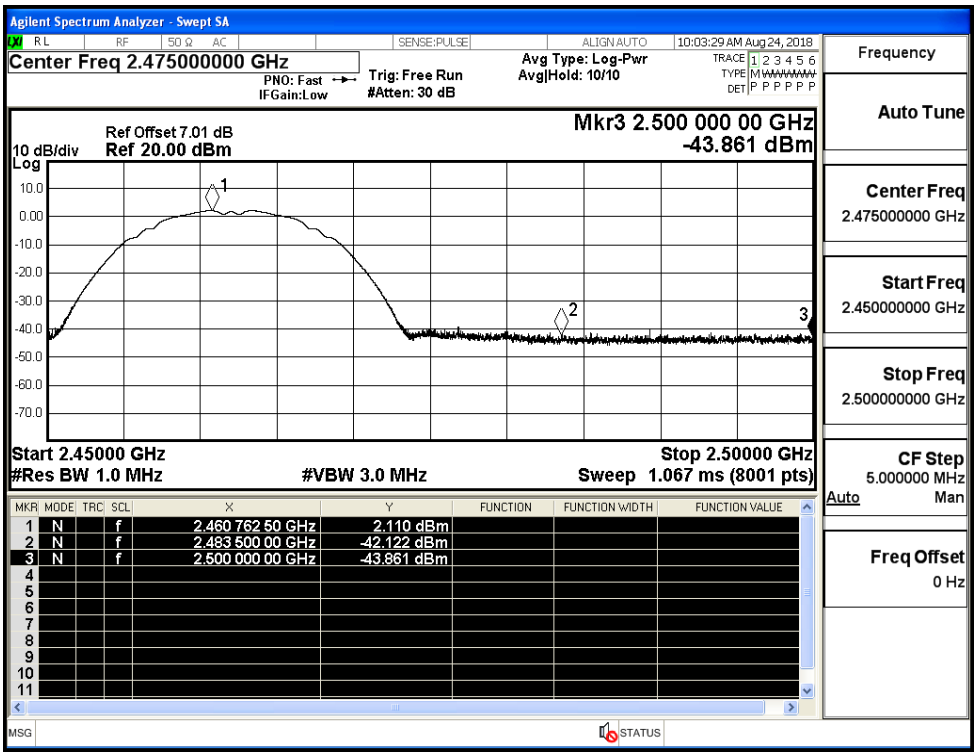
Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



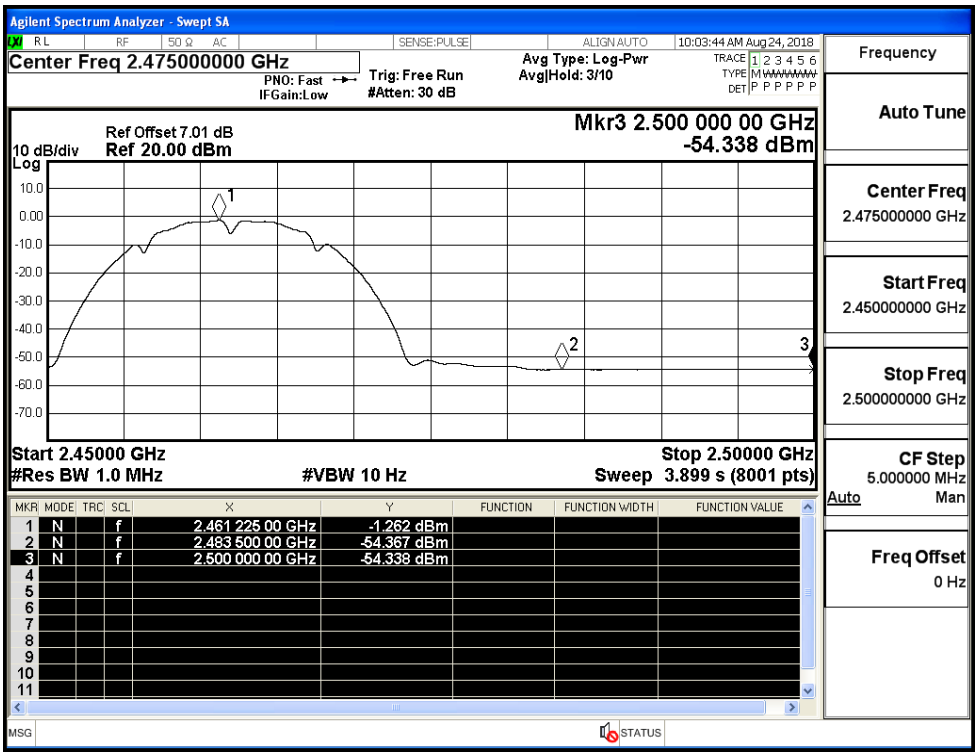
Restrict-band band-edge measurements_11B_2412_Ant1_AV



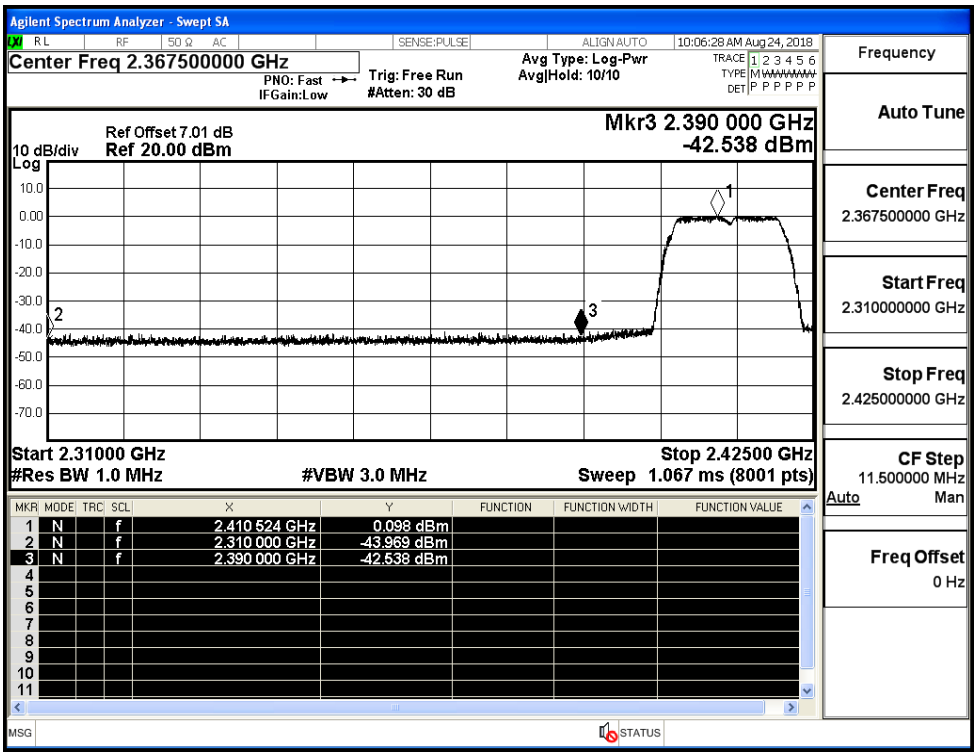
Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



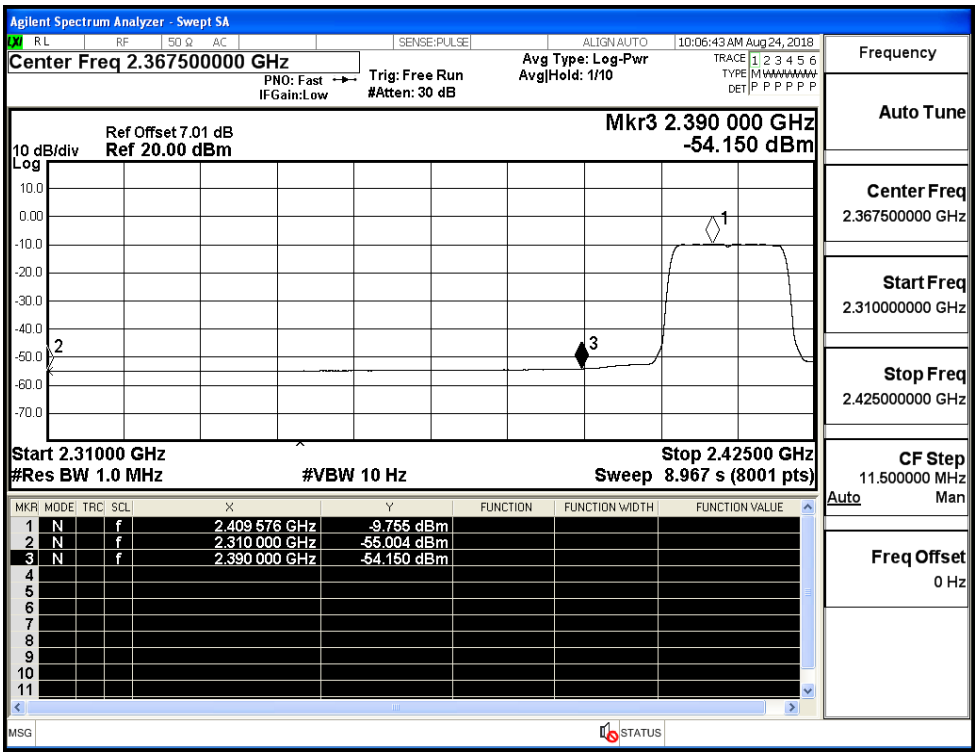
Restrict-band band-edge measurements_11B_2462_Ant1_AV



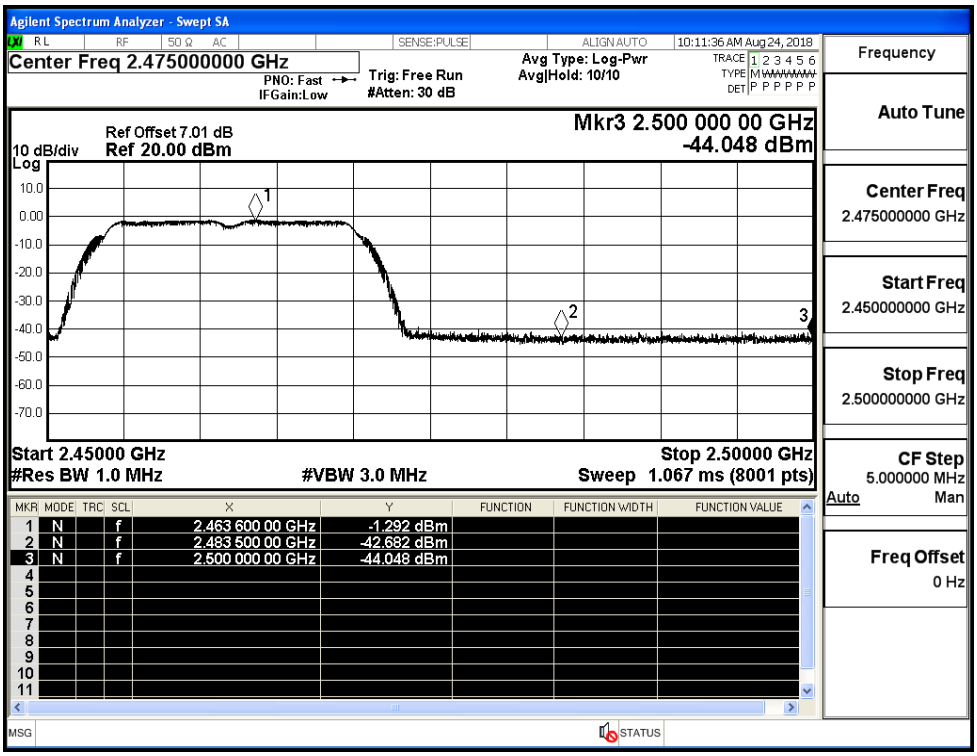
Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



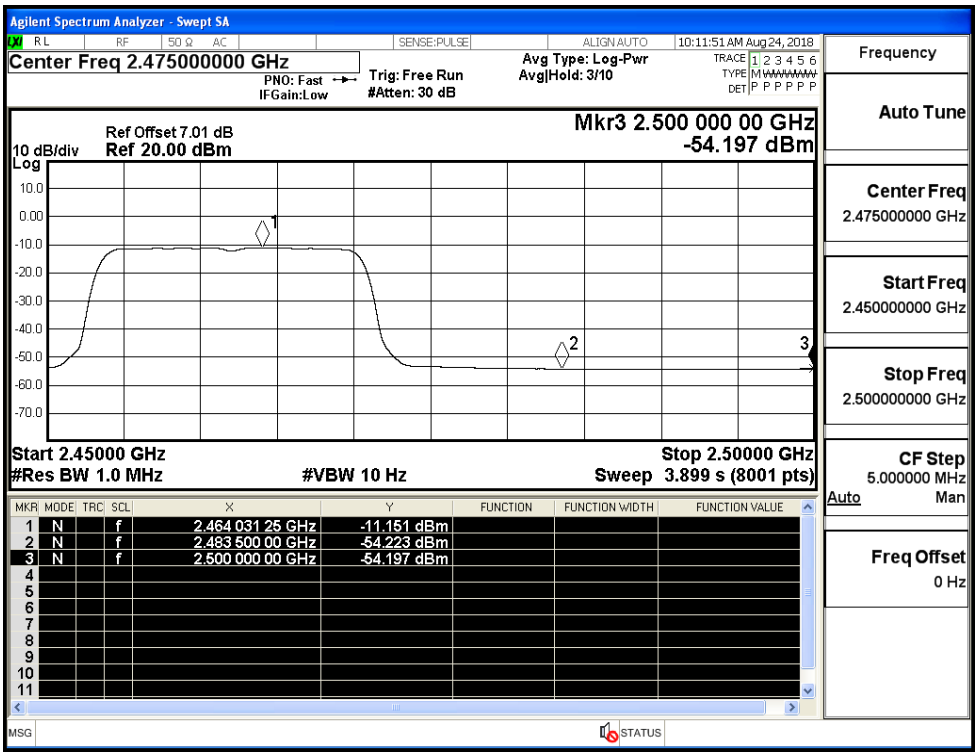
Restrict-band band-edge measurements_11G_2412_Ant1_AV



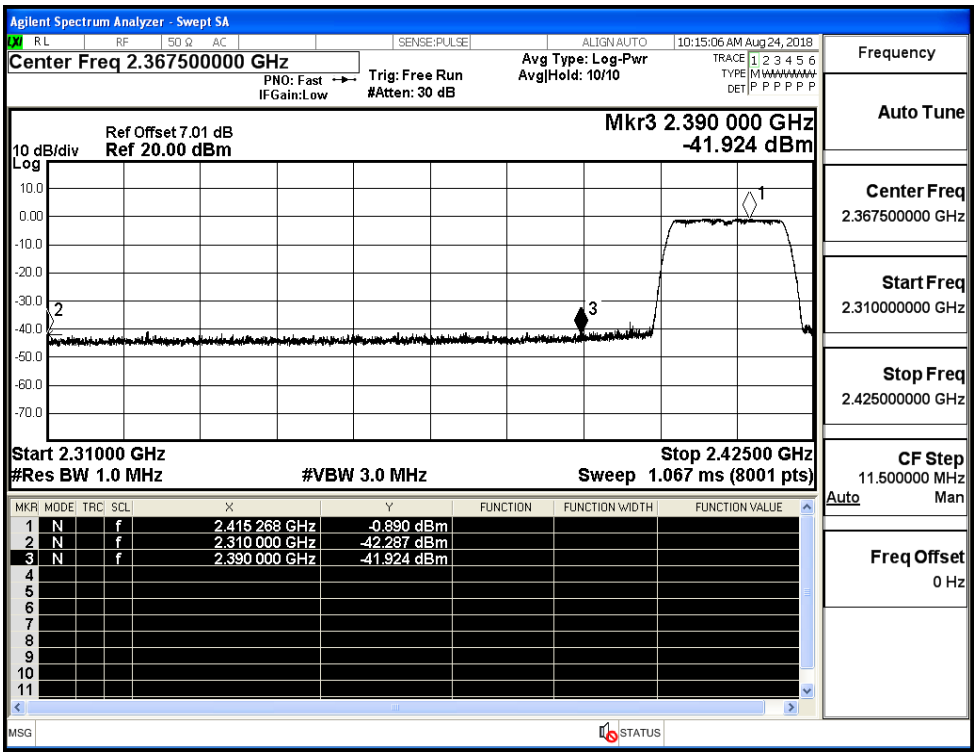
Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



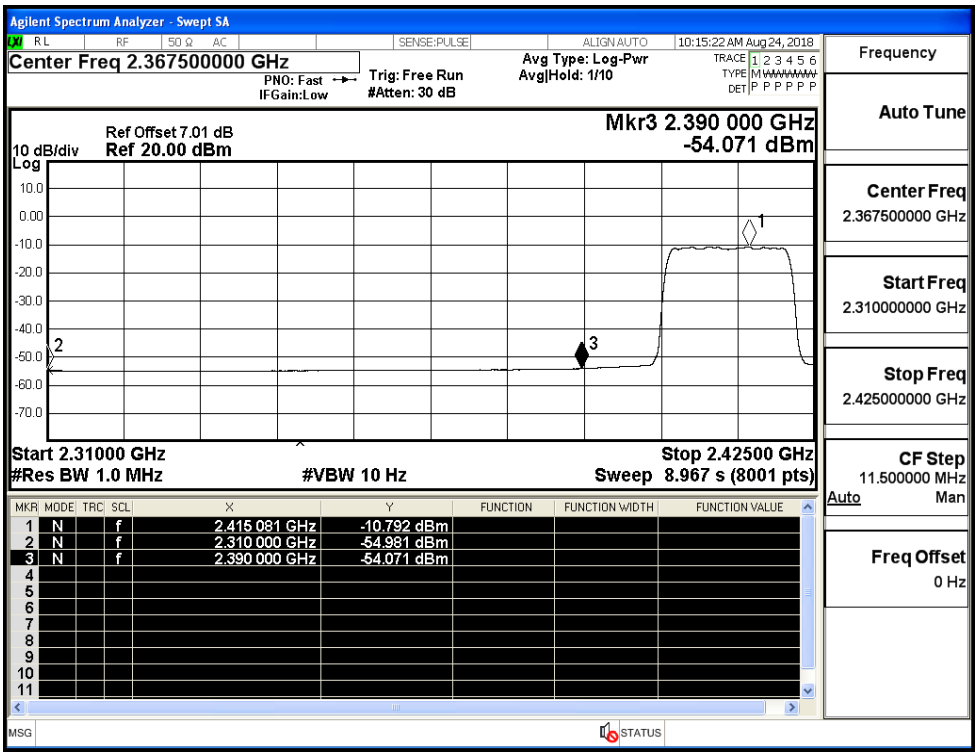
Restrict-band band-edge measurements_11G_2462_Ant1_AV



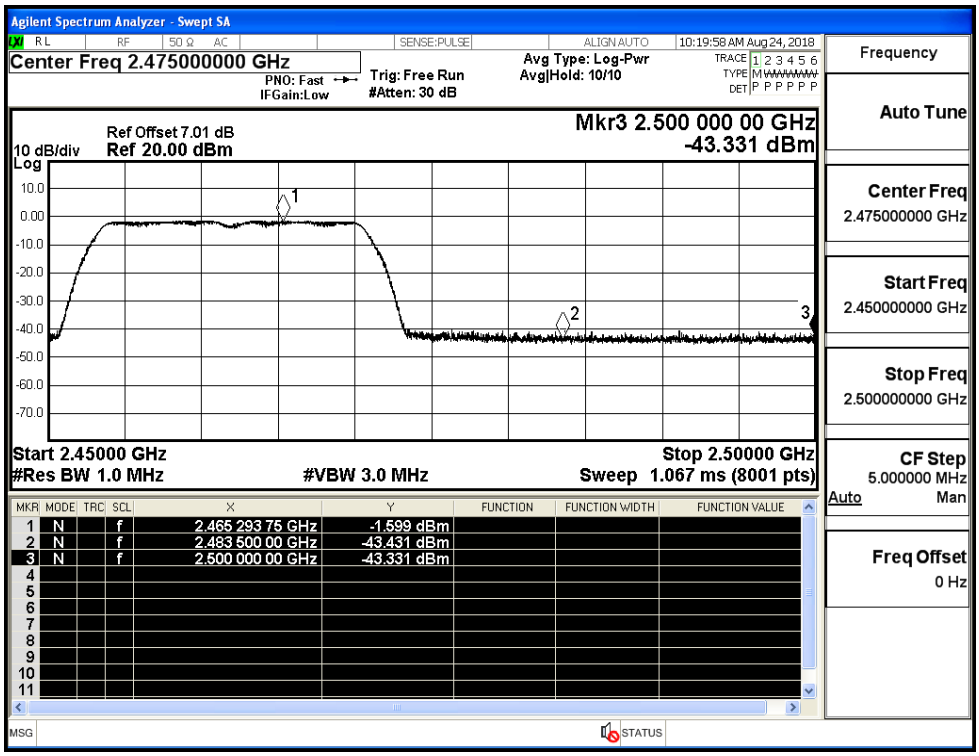
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



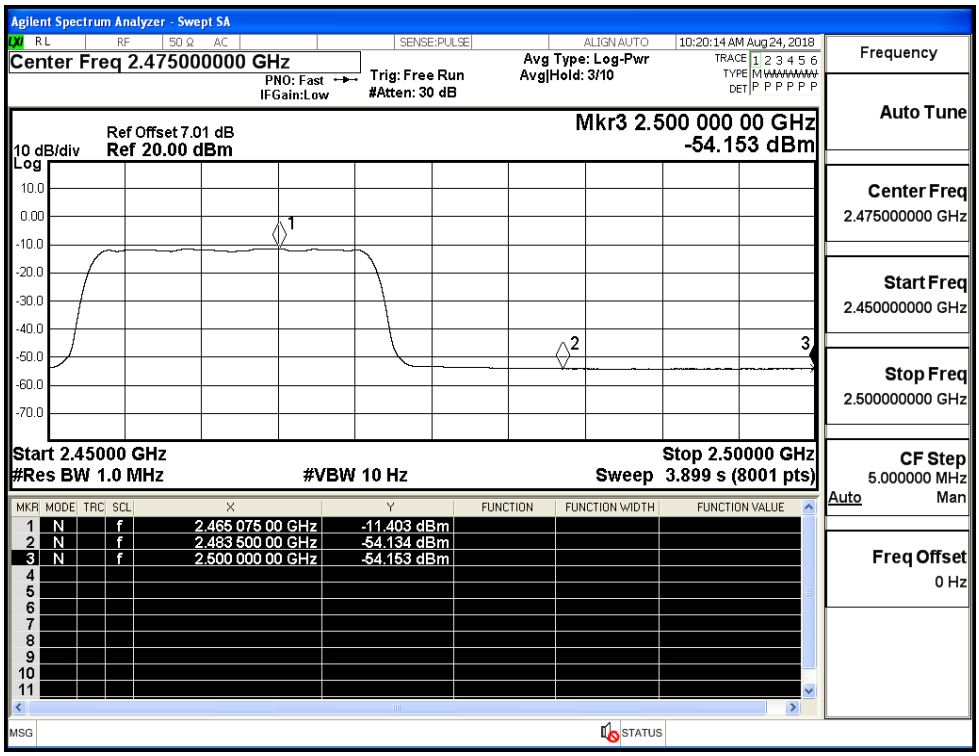
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_AV



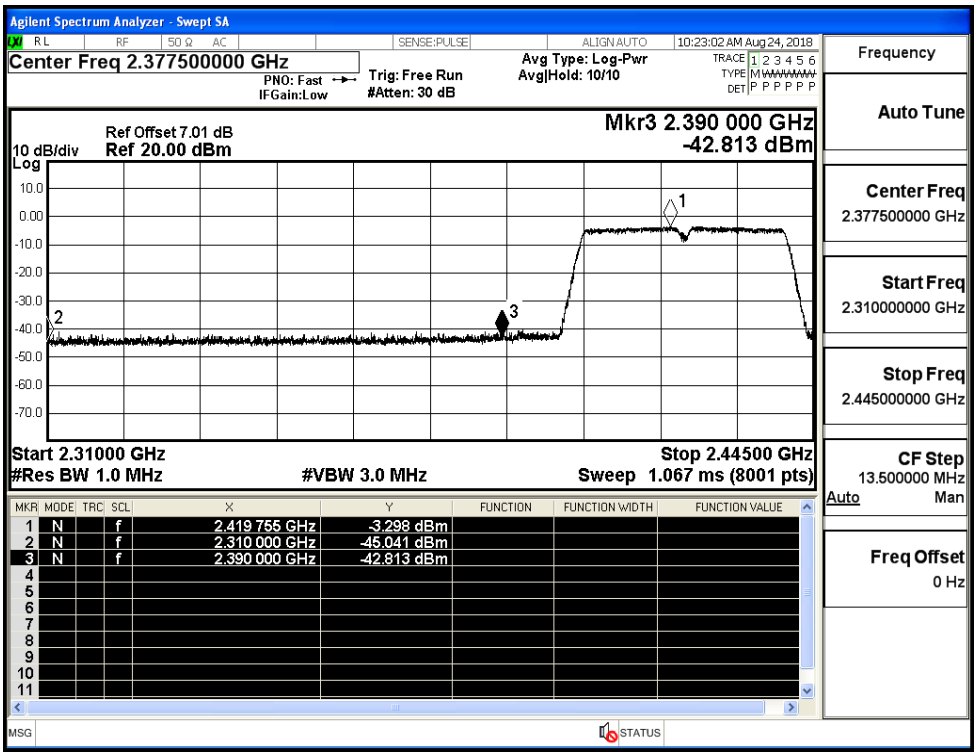
Restrict-band band-edge measurements_11N20SISO_2462_Ant1_PEAK



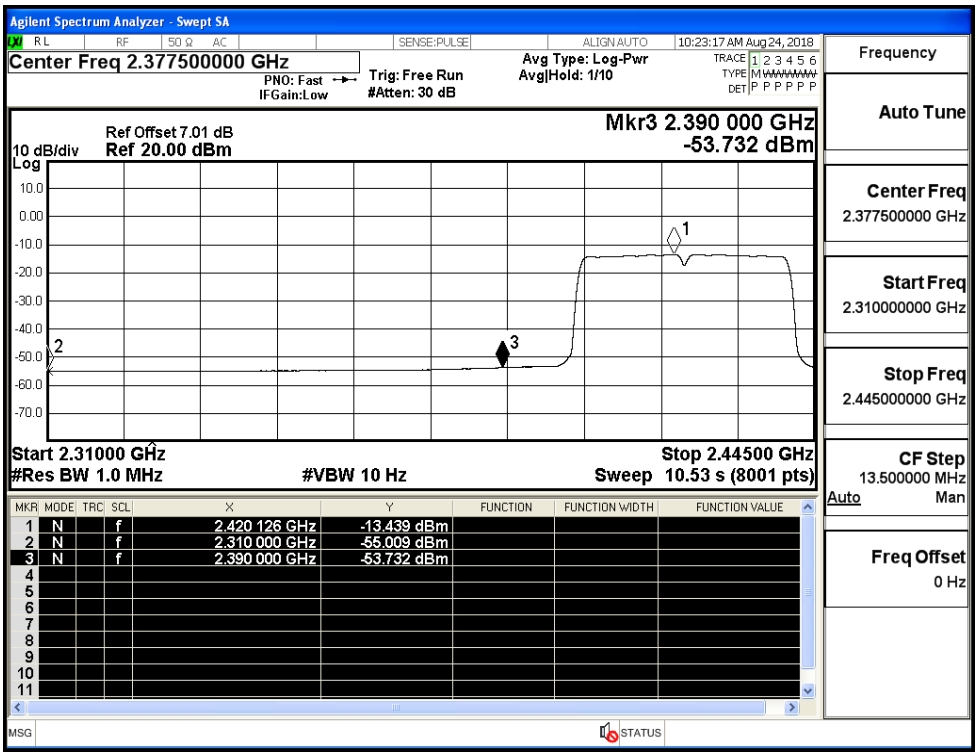
Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV



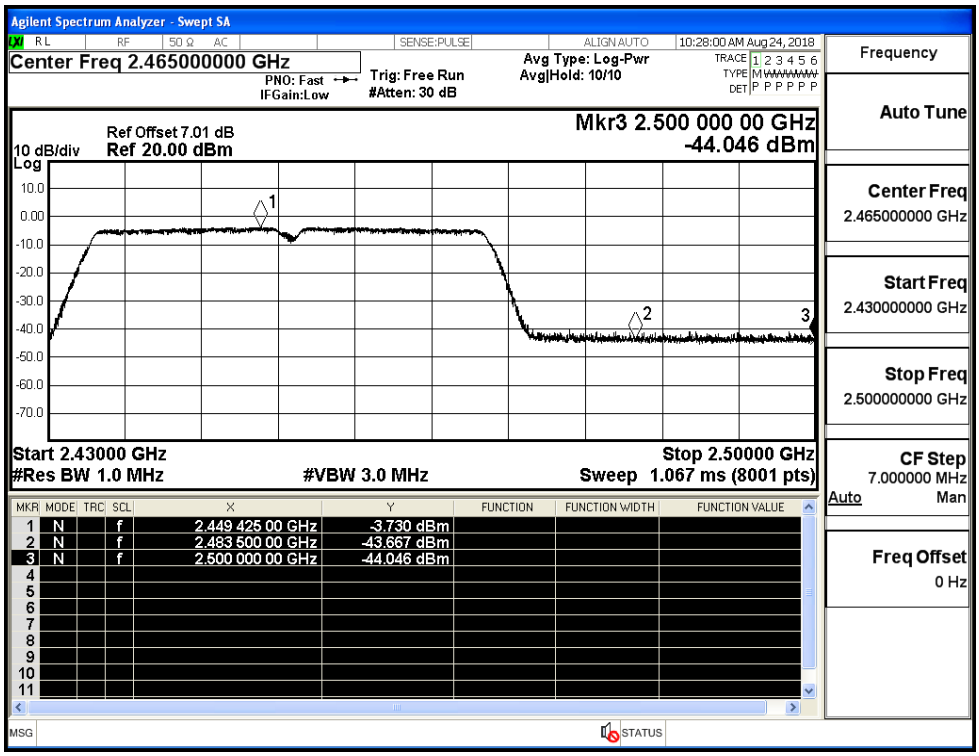
Restrict-band band-edge measurements_11N40SISO_2422_Ant1_PEAK



Restrict-band band-edge measurements_11N40SISO_2422_Ant1_AV



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_PEAK



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_AV