

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: GSM/WCDMA Smartphone

Trade Mark: DOOGEE

Test Model: X50

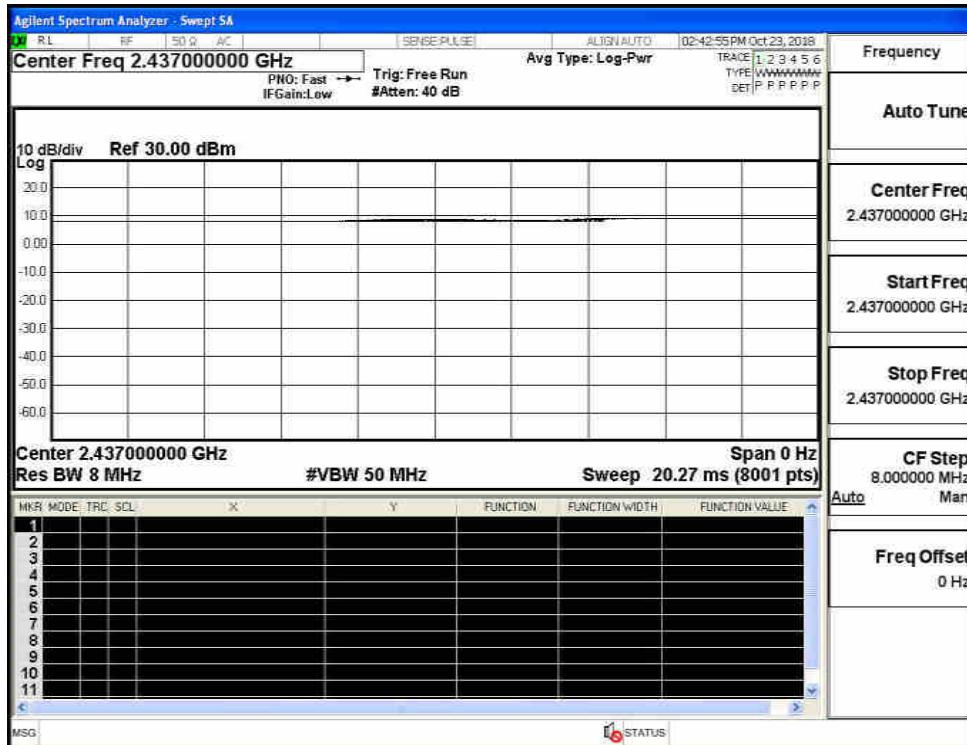
Environmental Conditions

Temperature:	24.6 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	WangChuang
Supervised by:	Jayden.Zhuo

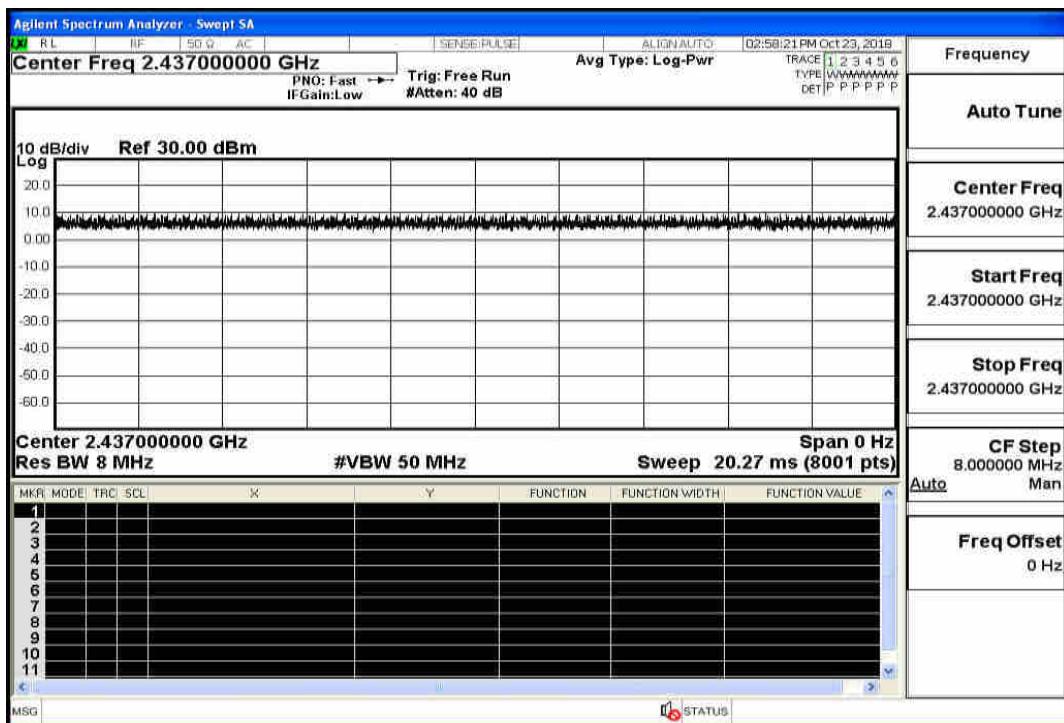
C.1 Duty Cycle

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

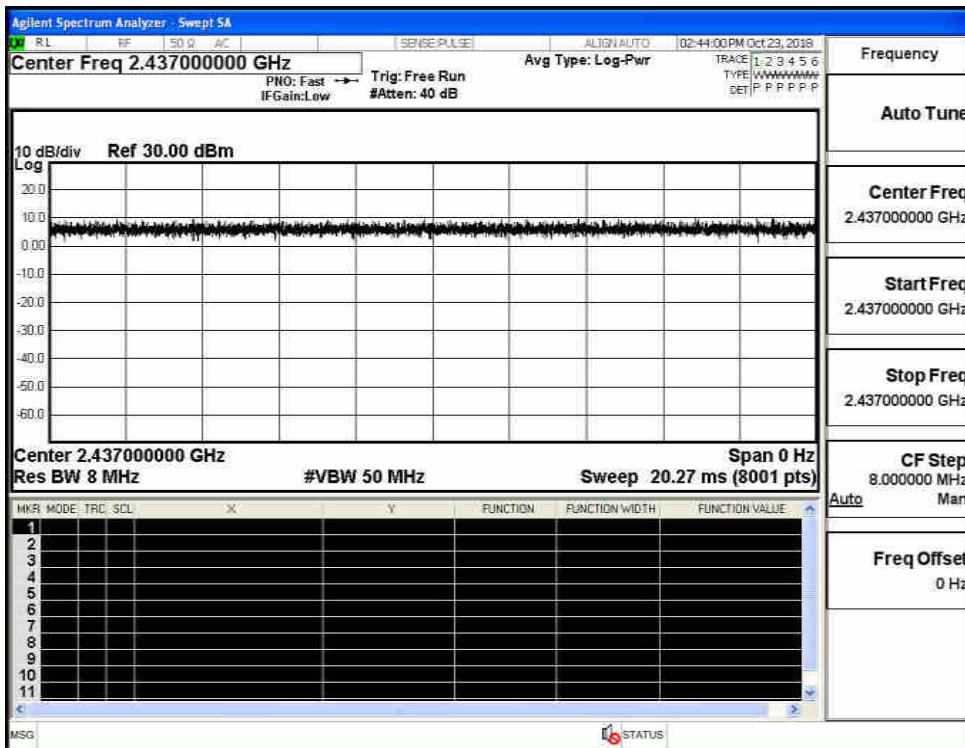
Duty Cycle_11B_2437_Ant1



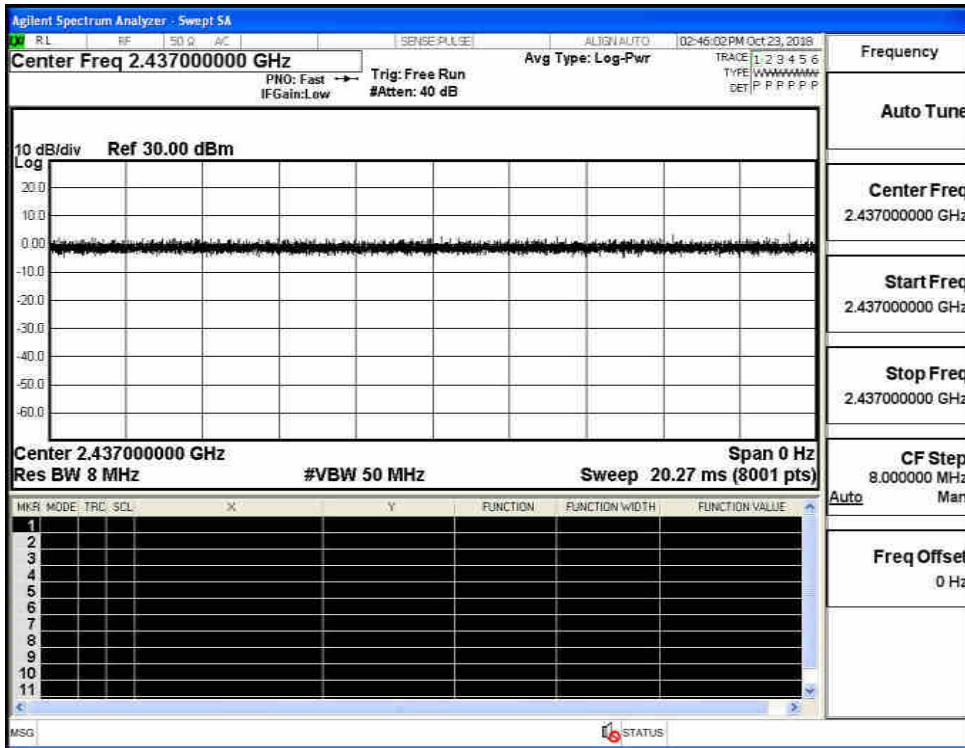
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1

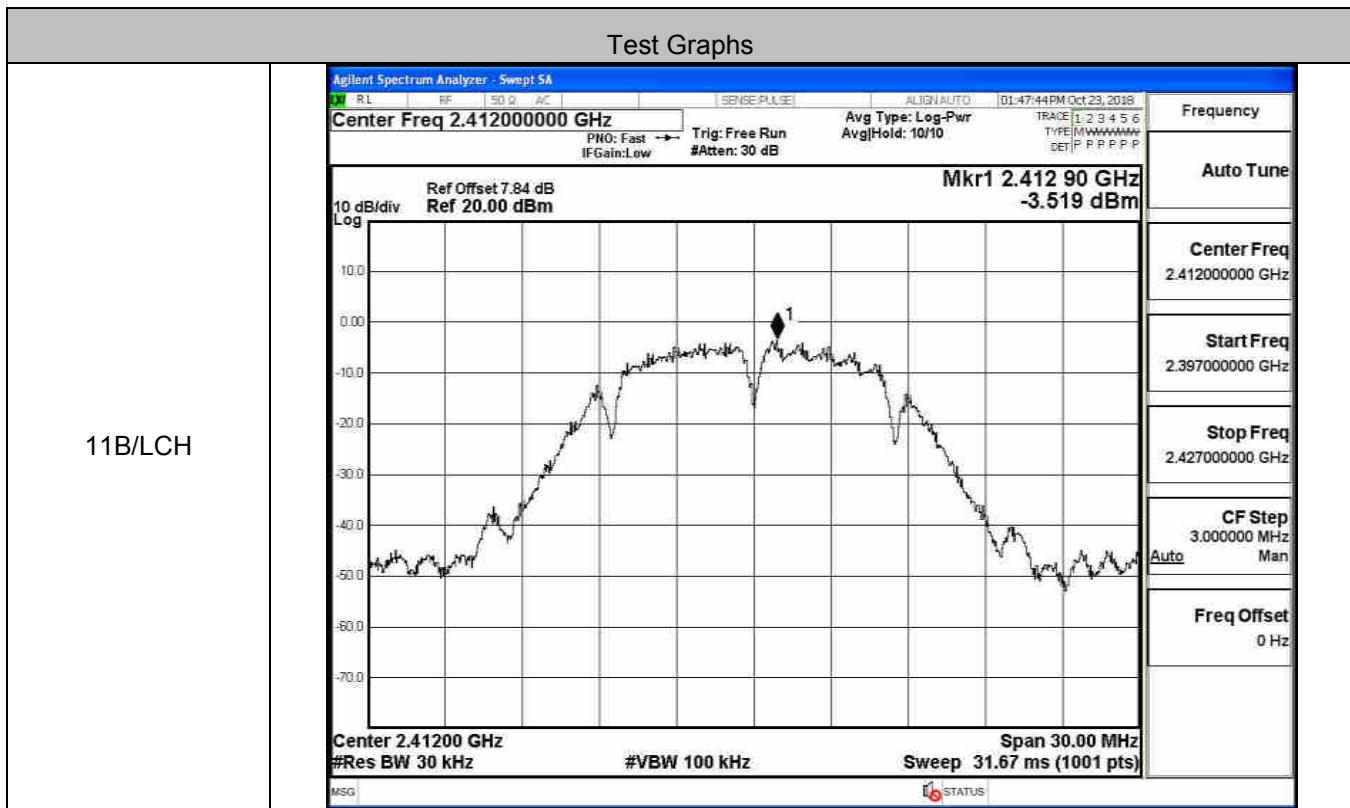


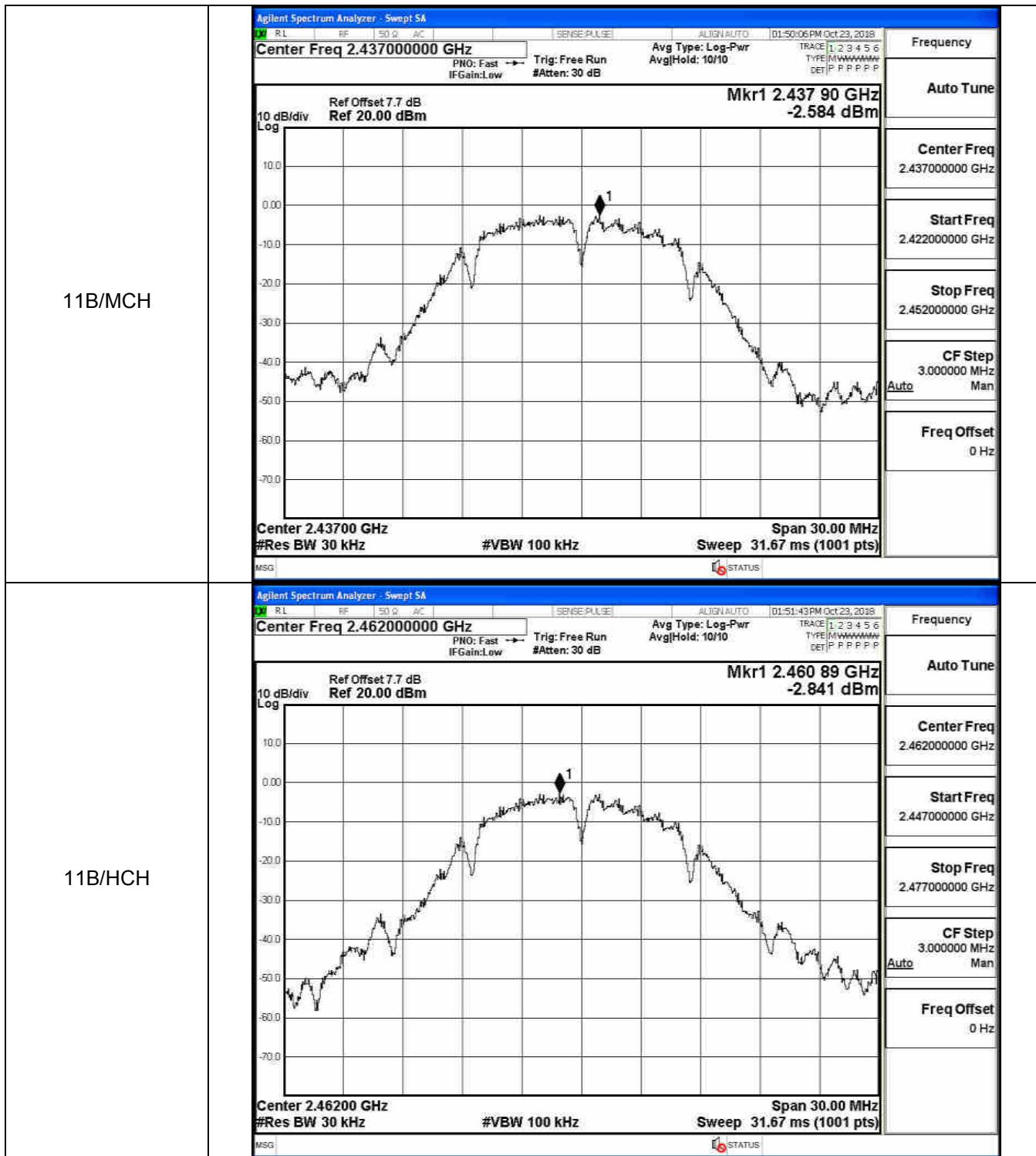
C.2 Maximum Conducted Output Power

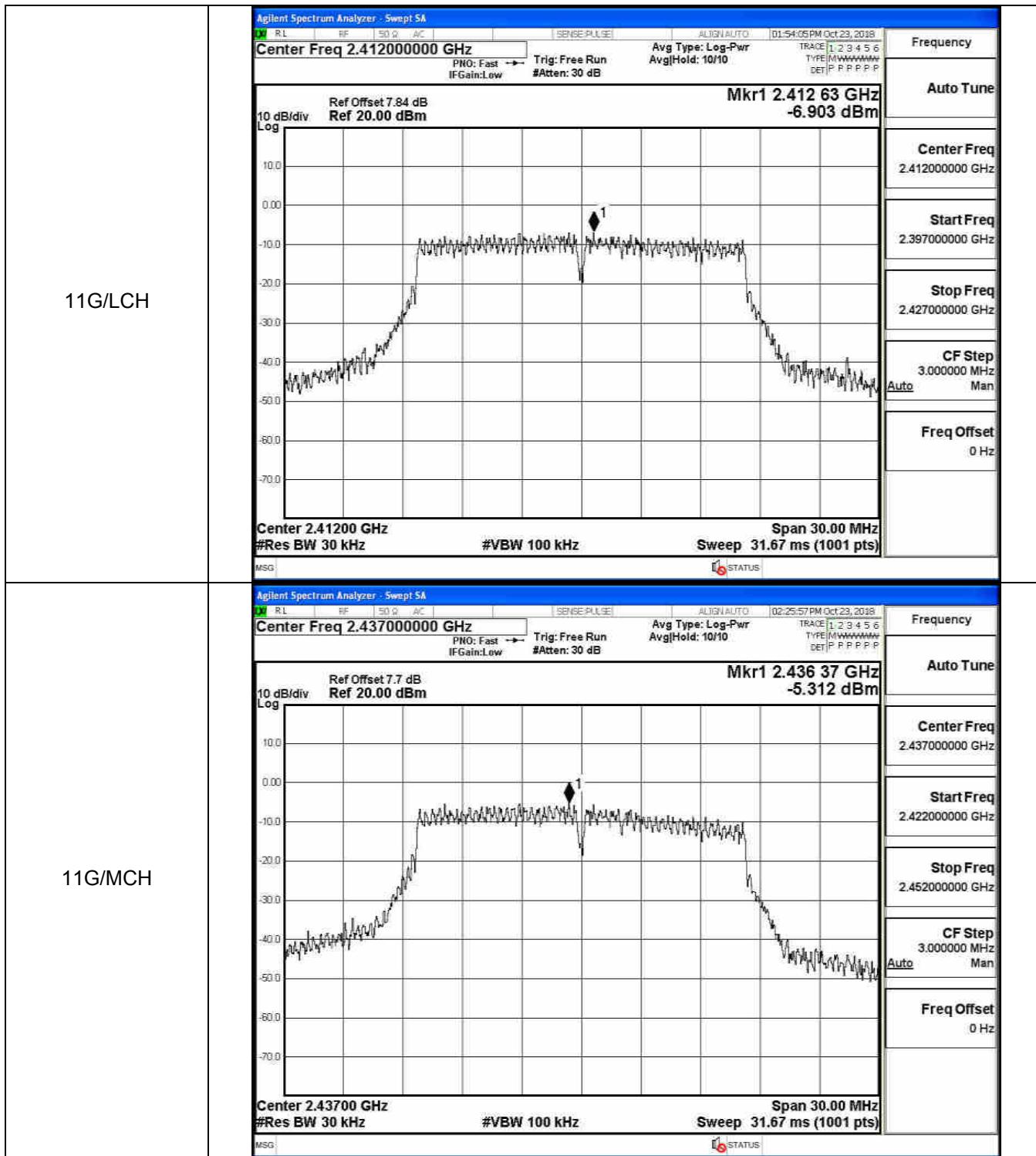
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	15.84	30	PASS
	MCH	16.92	30	PASS
	HCH	15.89	30	PASS
11G	LCH	17.46	30	PASS
	MCH	18.59	30	PASS
	HCH	18.12	30	PASS
11N20SISO	LCH	17.70	30	PASS
	MCH	18.46	30	PASS
	HCH	18.18	30	PASS
11N40SISO	LCH	17.84	30	PASS
	MCH	17.83	30	PASS
	HCH	17.03	30	PASS

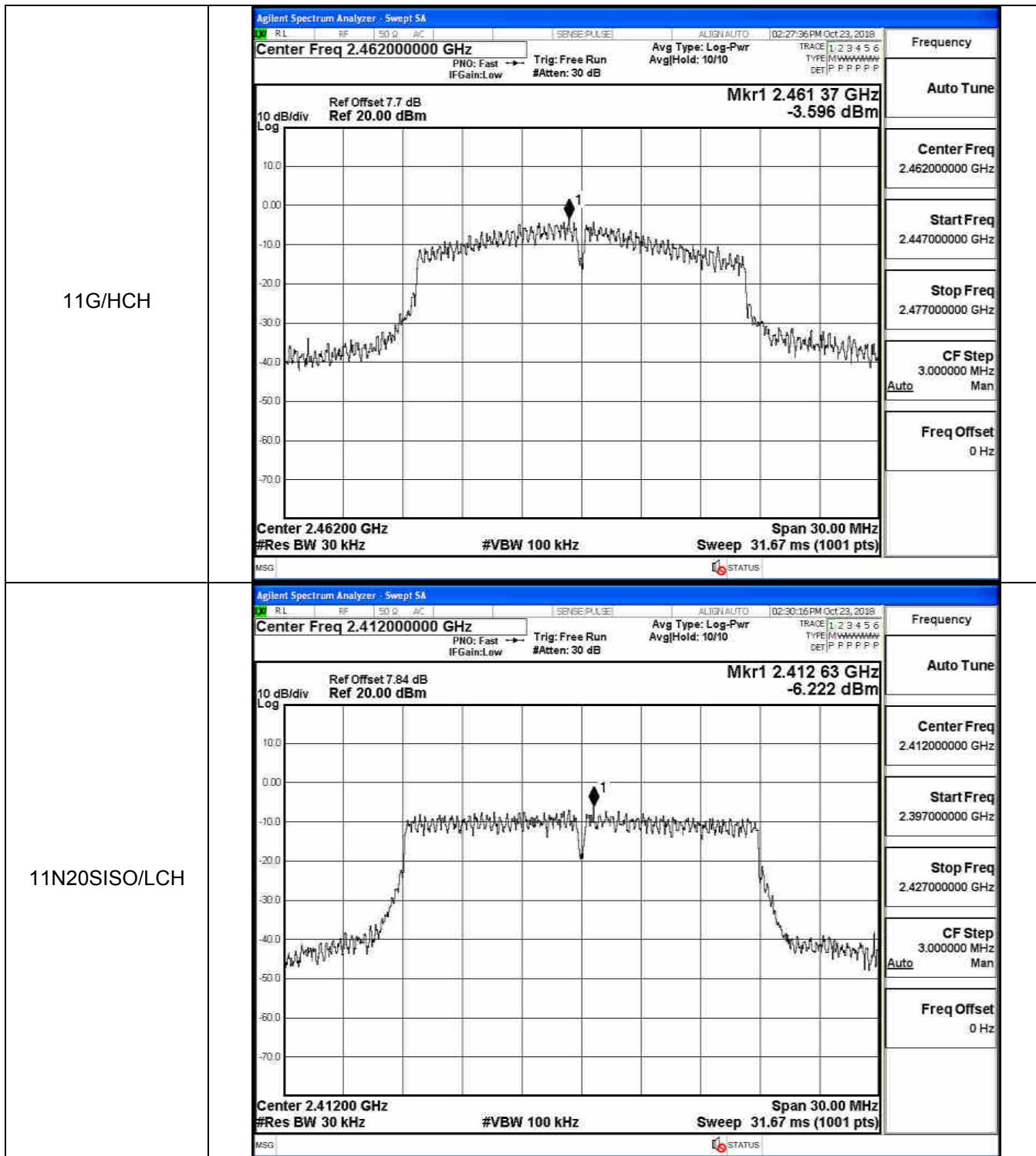
C.3 Maximum Power Spectral Density

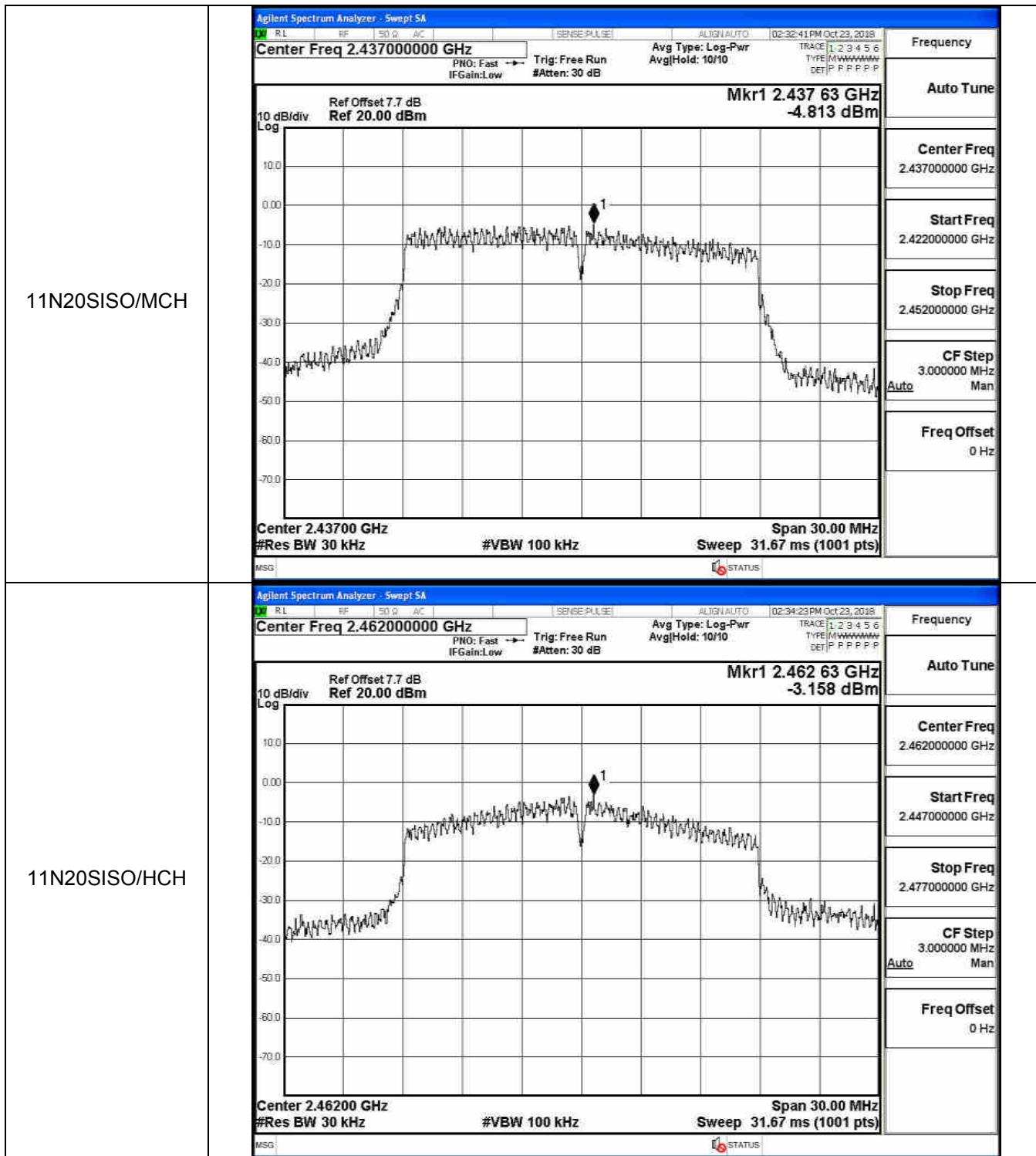
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-3.519	8	PASS
	MCH	-2.584	8	PASS
	HCH	-2.841	8	PASS
11G	LCH	-6.903	8	PASS
	MCH	-5.312	8	PASS
	HCH	-3.596	8	PASS
11N20SISO	LCH	-6.222	8	PASS
	MCH	-4.813	8	PASS
	HCH	-3.158	8	PASS
11N40SISO	LCH	-8.072	8	PASS
	MCH	-8.309	8	PASS
	HCH	-7.837	8	PASS

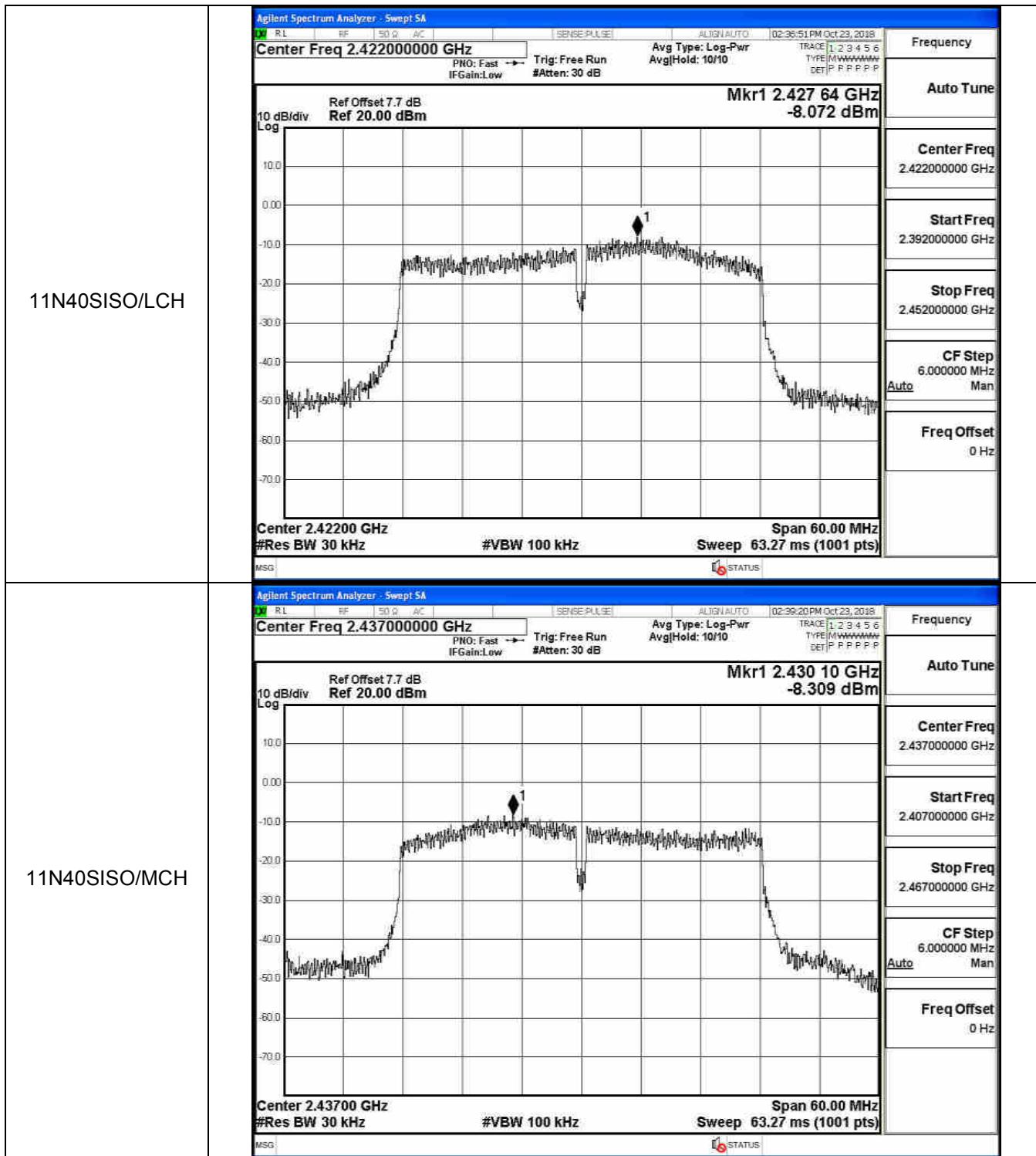


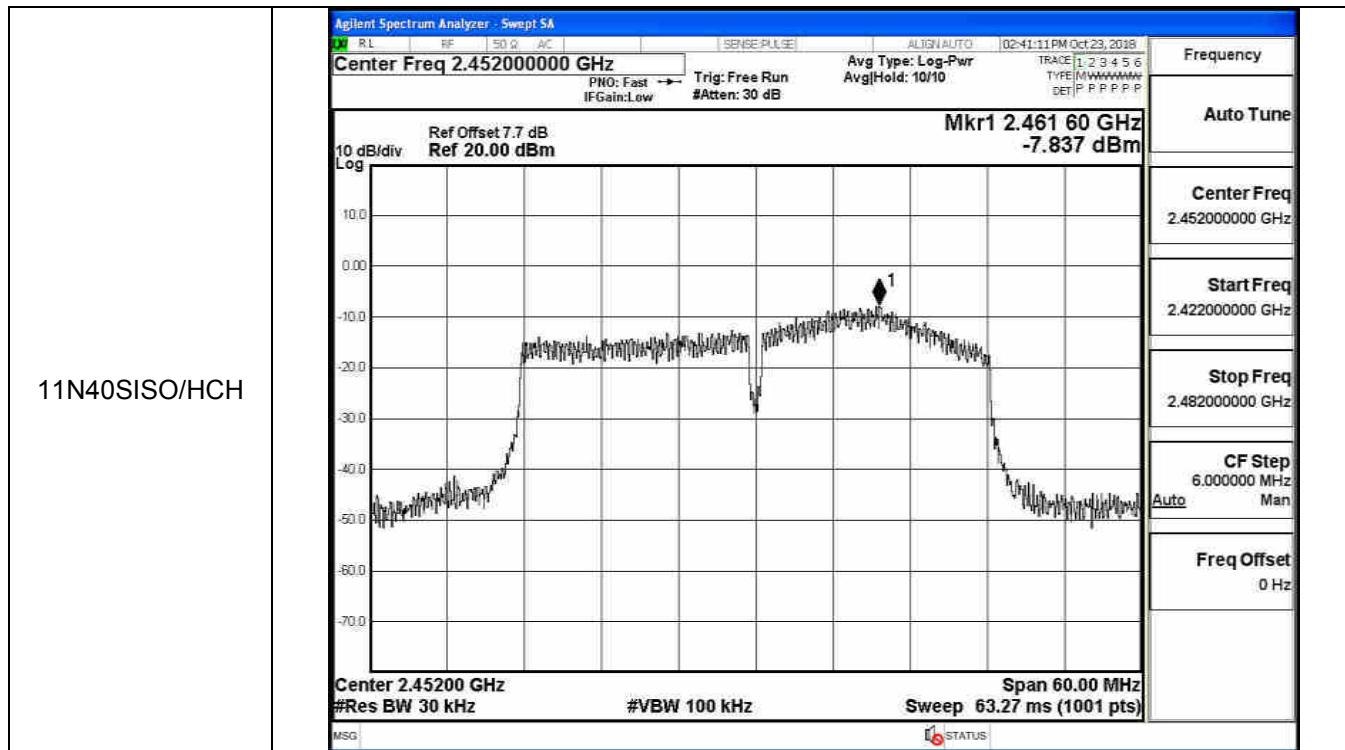






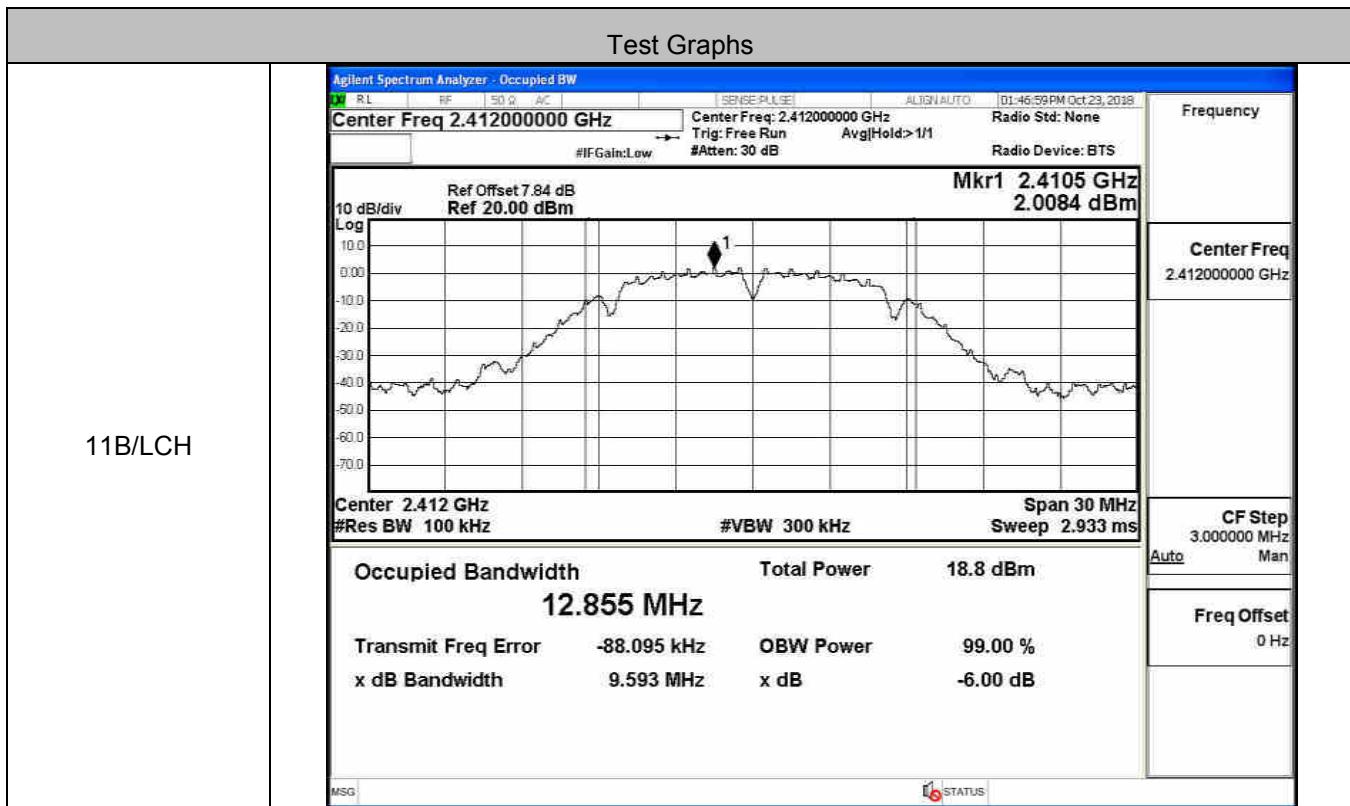


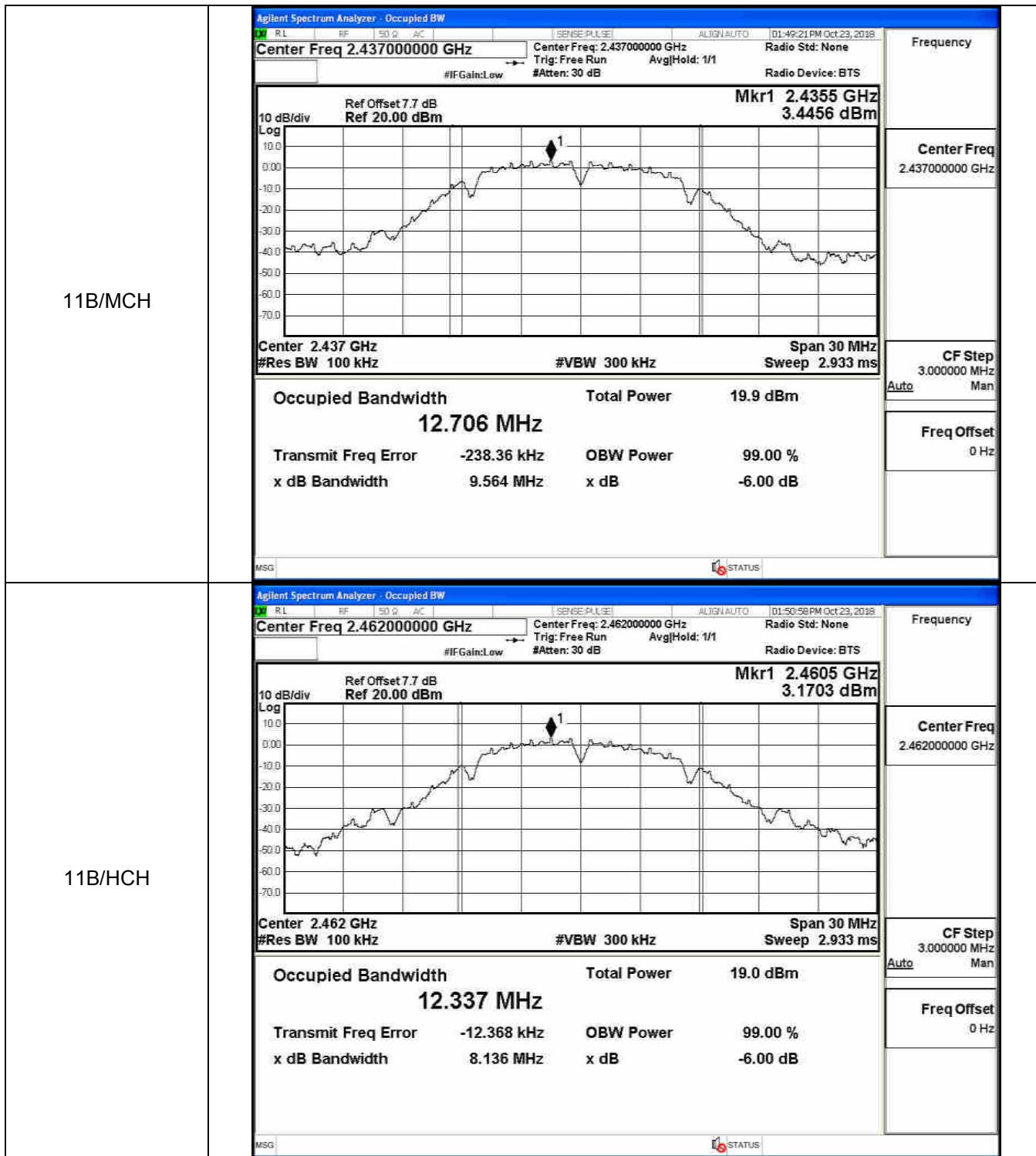


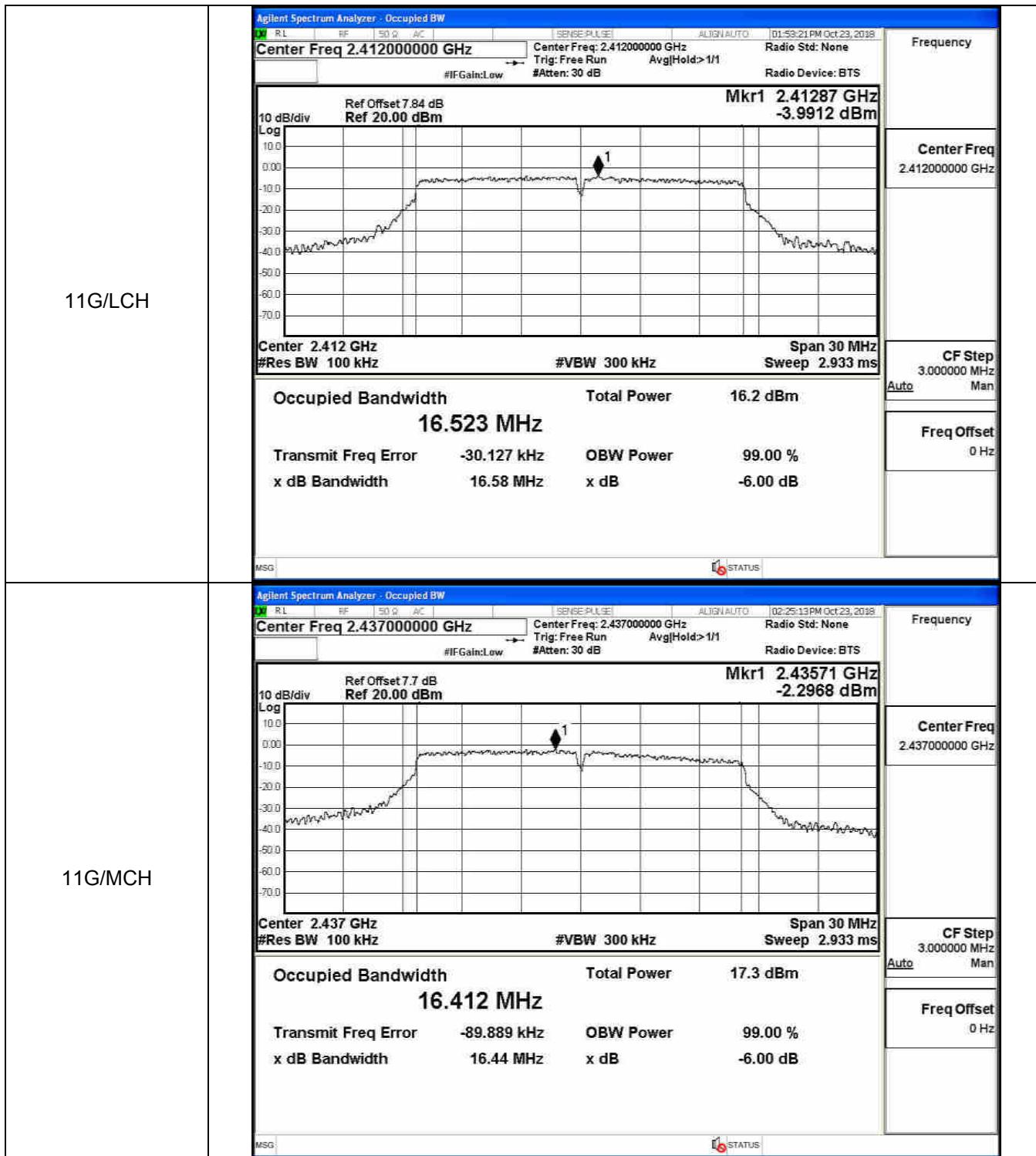


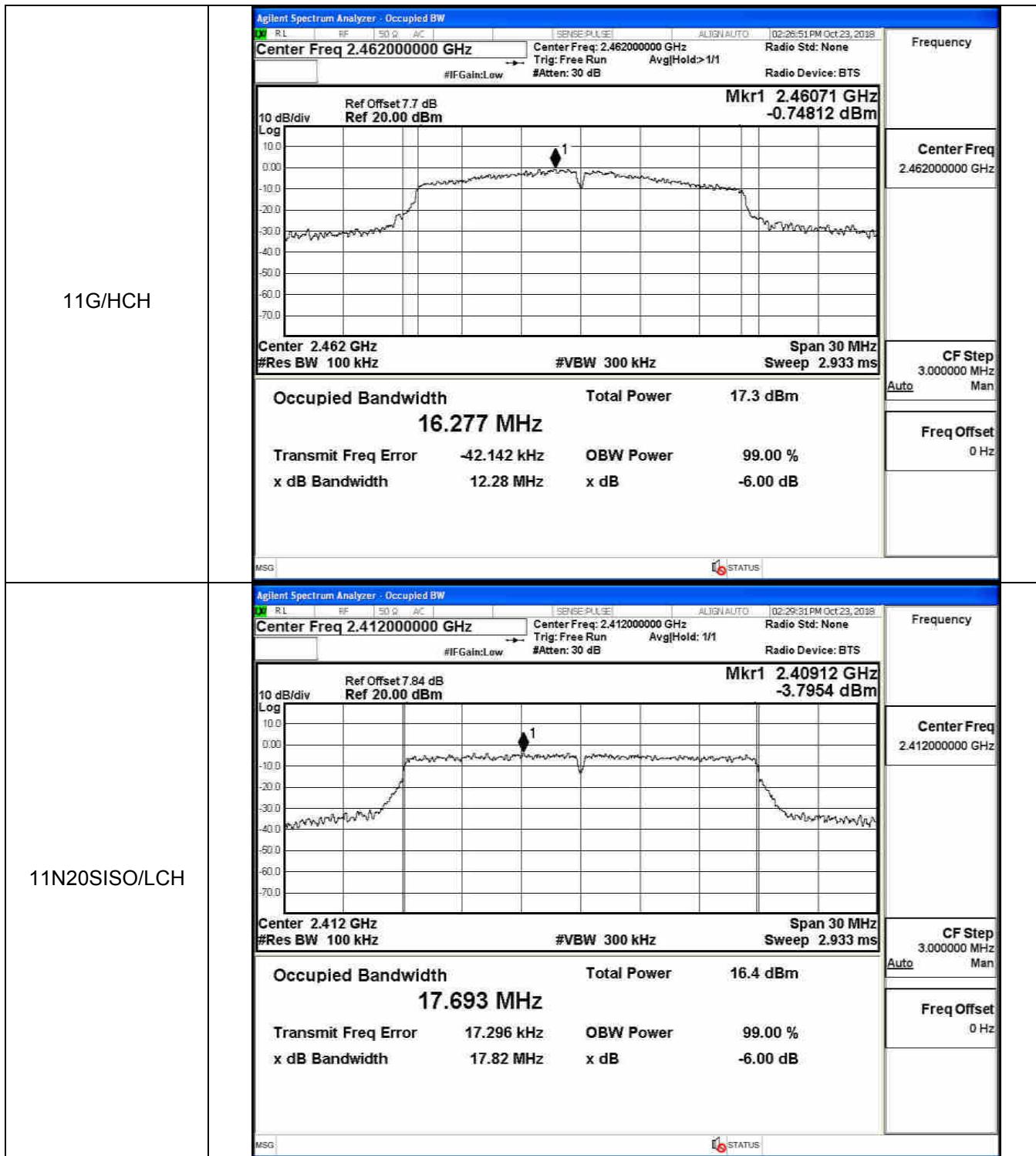
C.4 6dB Bandwidth

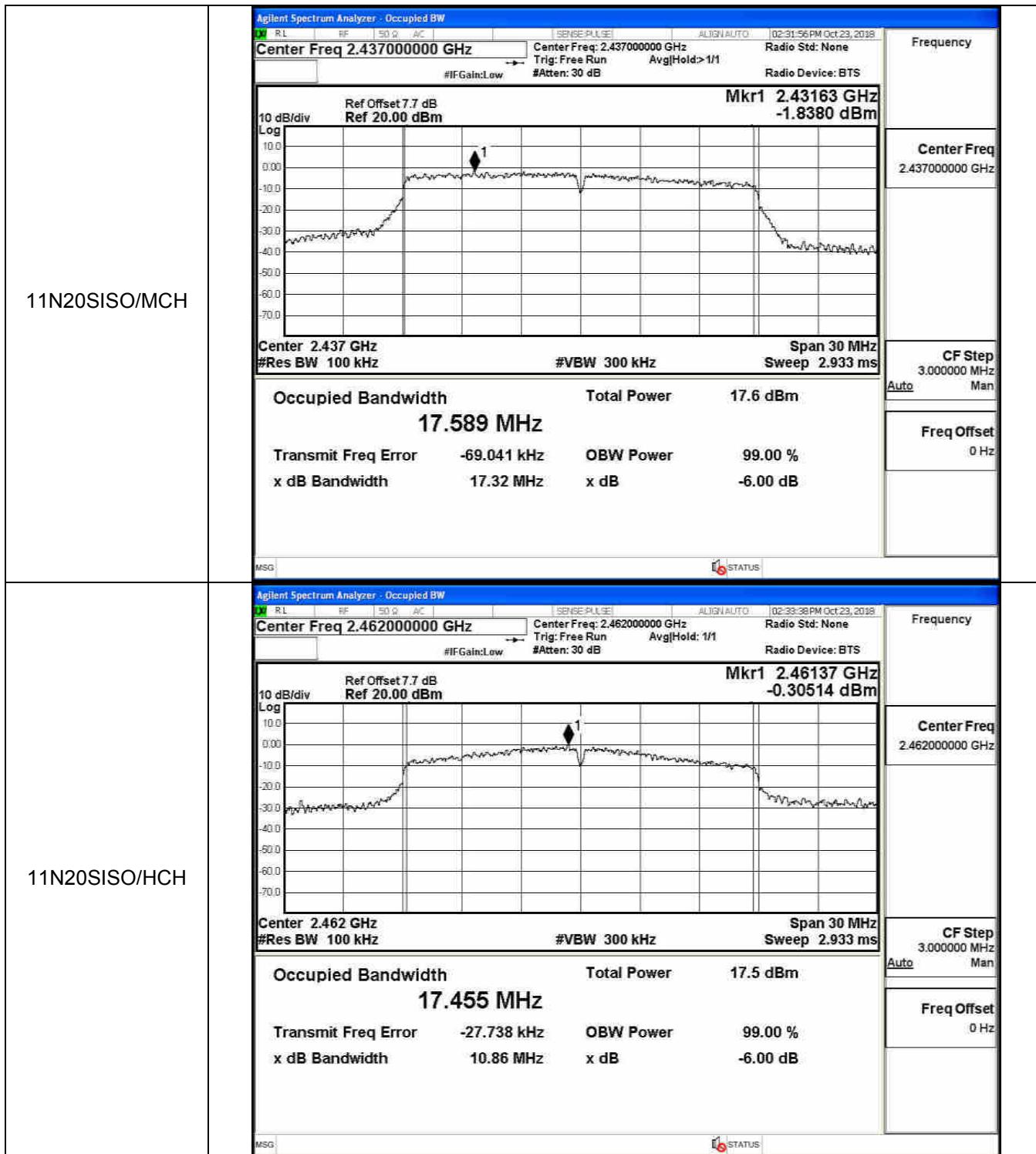
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.593	≥0.5	PASS
	MCH	9.564	≥0.5	PASS
	HCH	8.136	≥0.5	PASS
11G	LCH	16.58	≥0.5	PASS
	MCH	16.44	≥0.5	PASS
	HCH	12.28	≥0.5	PASS
11N20SISO	LCH	17.82	≥0.5	PASS
	MCH	17.32	≥0.5	PASS
	HCH	10.86	≥0.5	PASS
11N40SISO	LCH	35.08	≥0.5	PASS
	MCH	35.93	≥0.5	PASS
	HCH	31.41	≥0.5	PASS

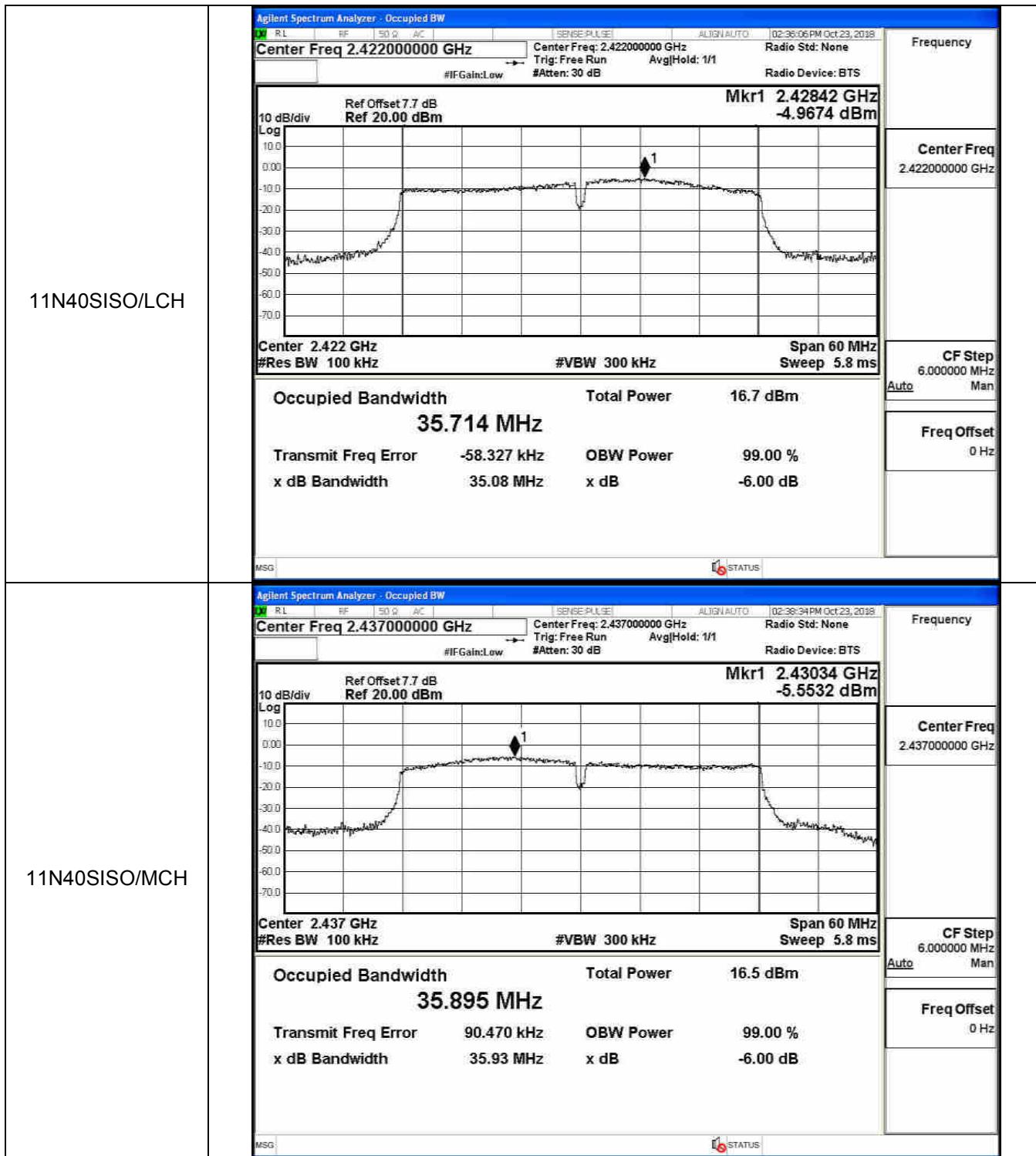


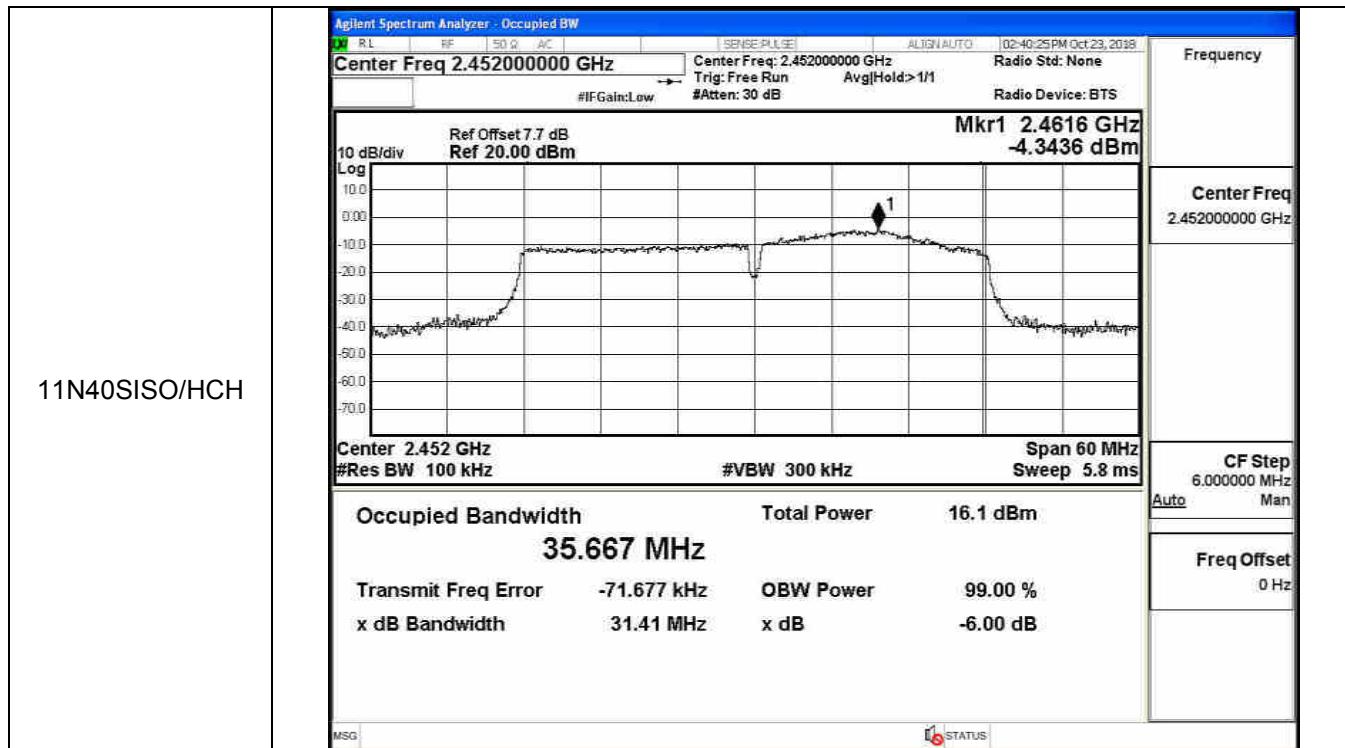






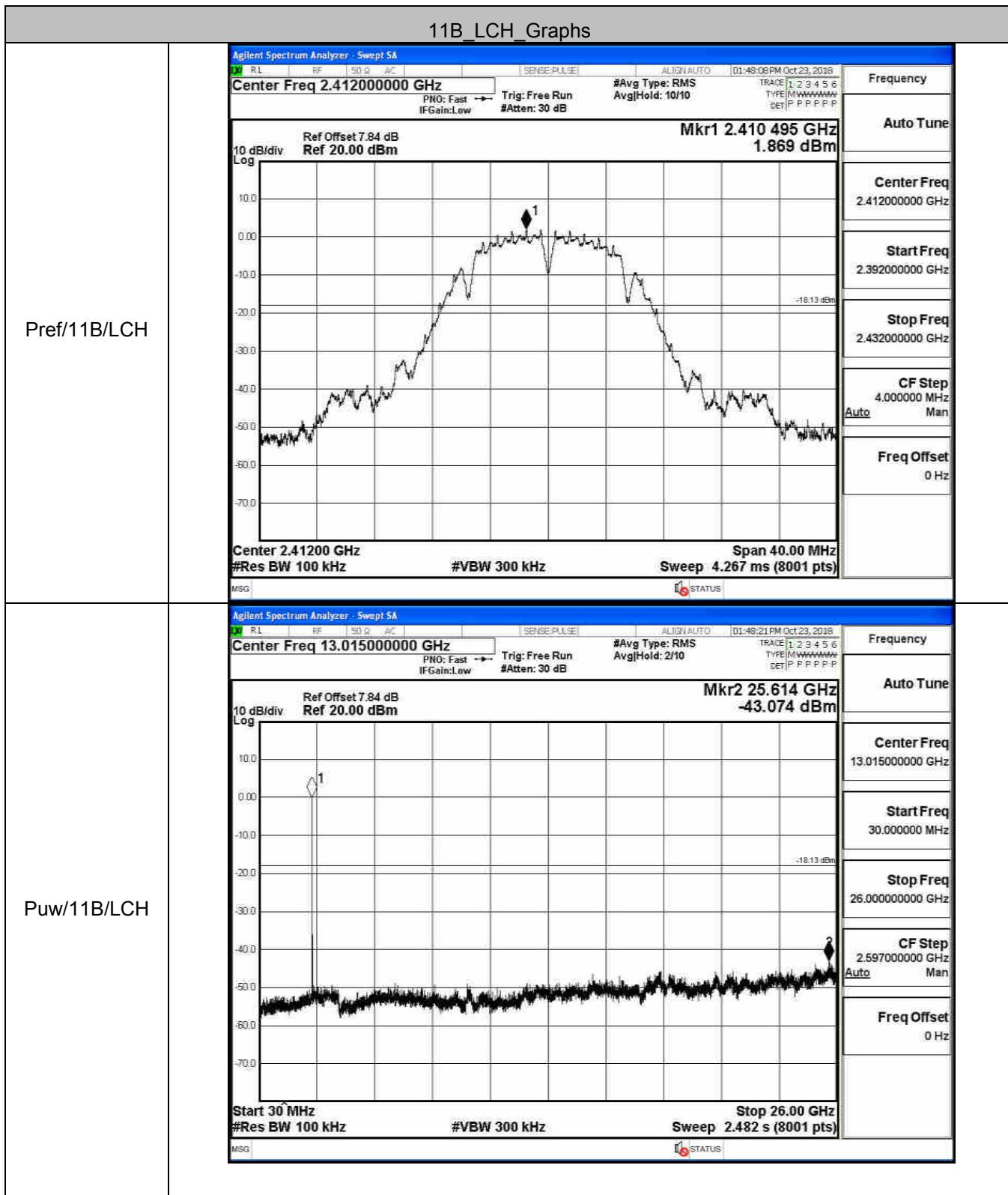


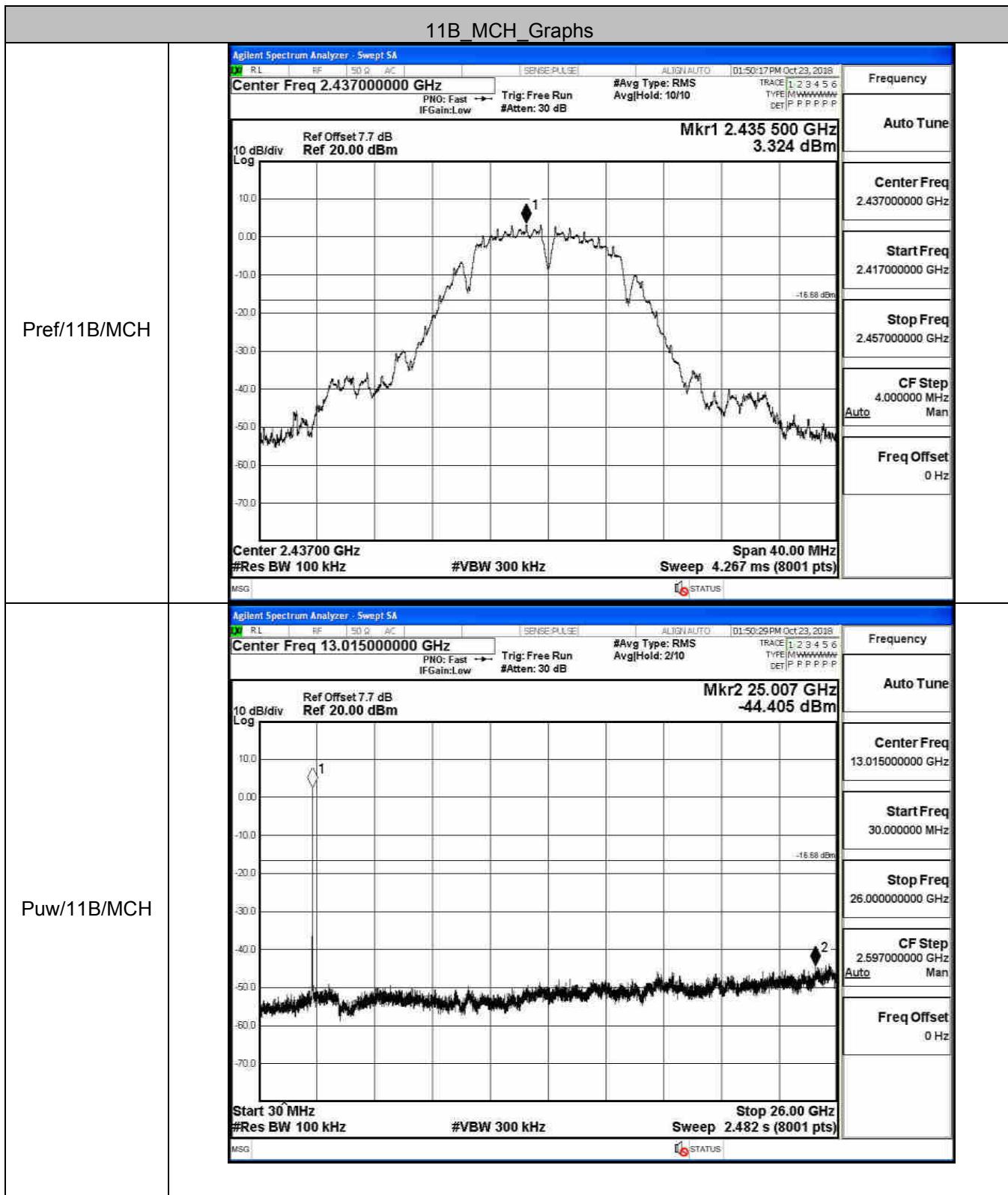


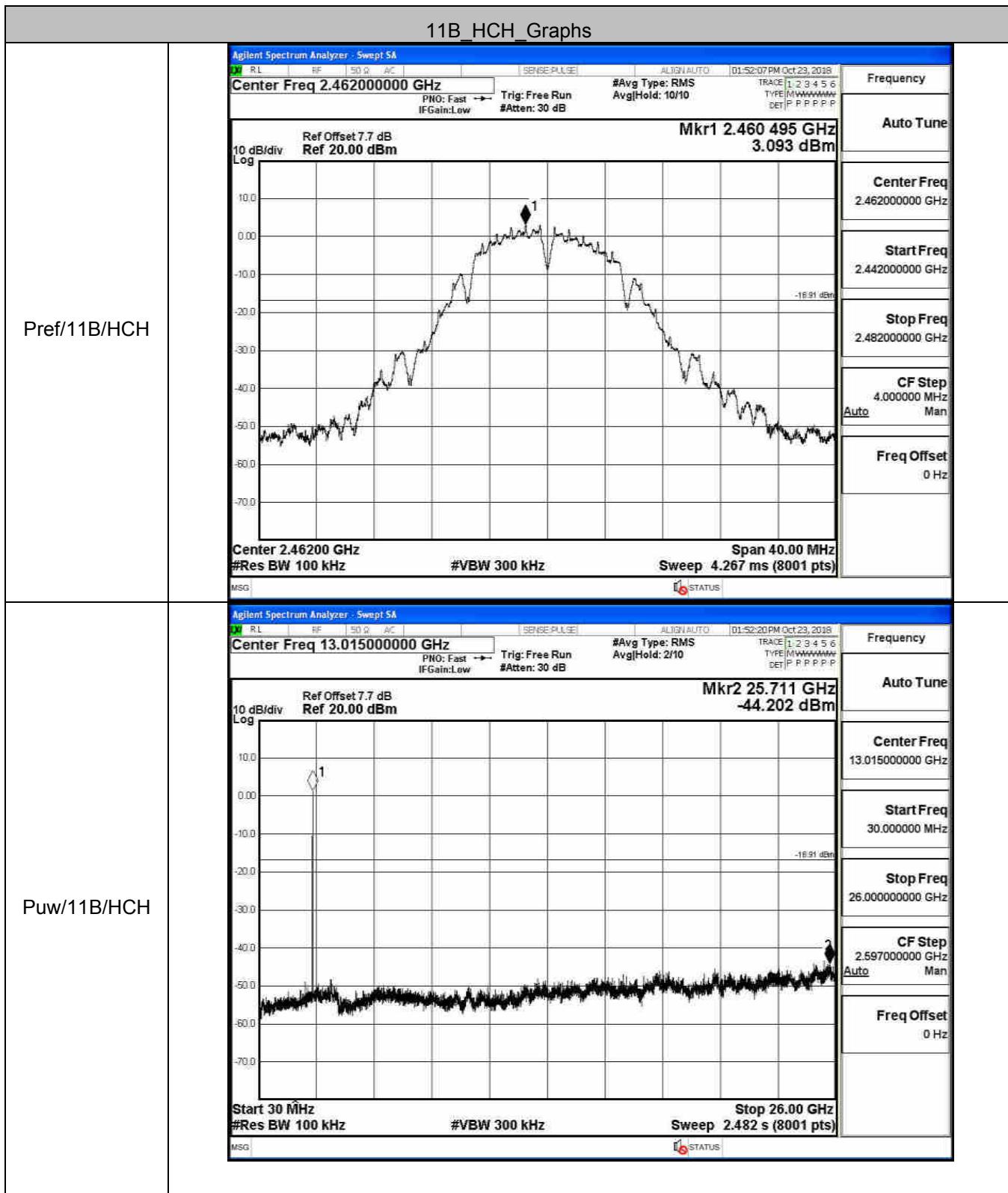


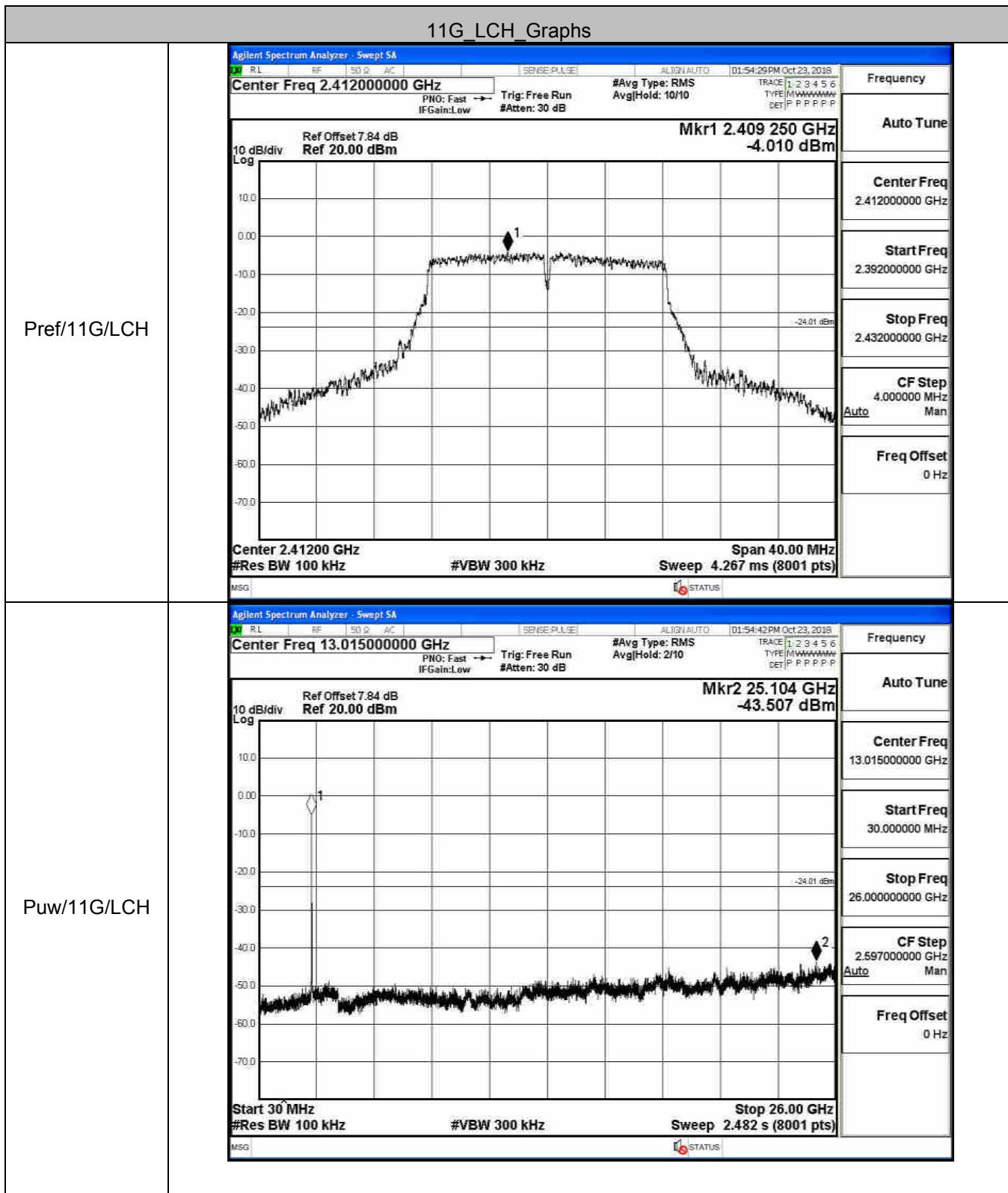
C.5 RF Conducted Spurious Emissions

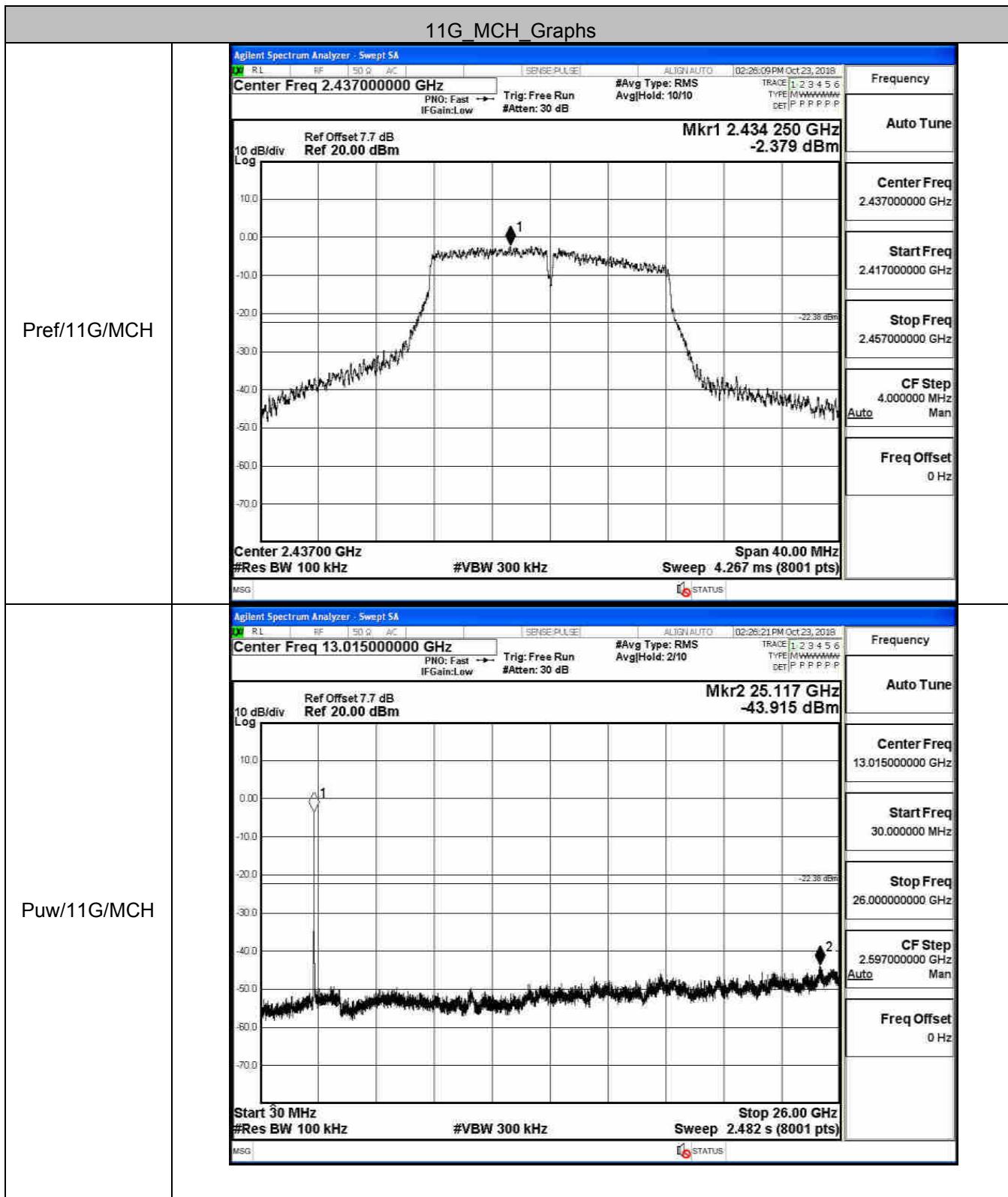
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	1.869	-43.074	-18.131	PASS
	MCH	3.324	-44.405	-16.676	PASS
	HCH	3.093	-44.202	-16.907	PASS
11G	LCH	-4.01	-43.507	-24.010	PASS
	MCH	-2.379	-43.915	-22.379	PASS
	HCH	-0.919	-43.094	-20.919	PASS
11N20 SISO	LCH	-3.626	-39.545	-23.626	PASS
	MCH	-2.004	-44.036	-22.004	PASS
	HCH	-0.569	-44.022	-20.569	PASS
11N40 SISO	LCH	-5.442	-44.514	-25.442	PASS
	MCH	-5.487	-43.917	-25.487	PASS
	HCH	-4.472	-42.982	-24.472	PASS

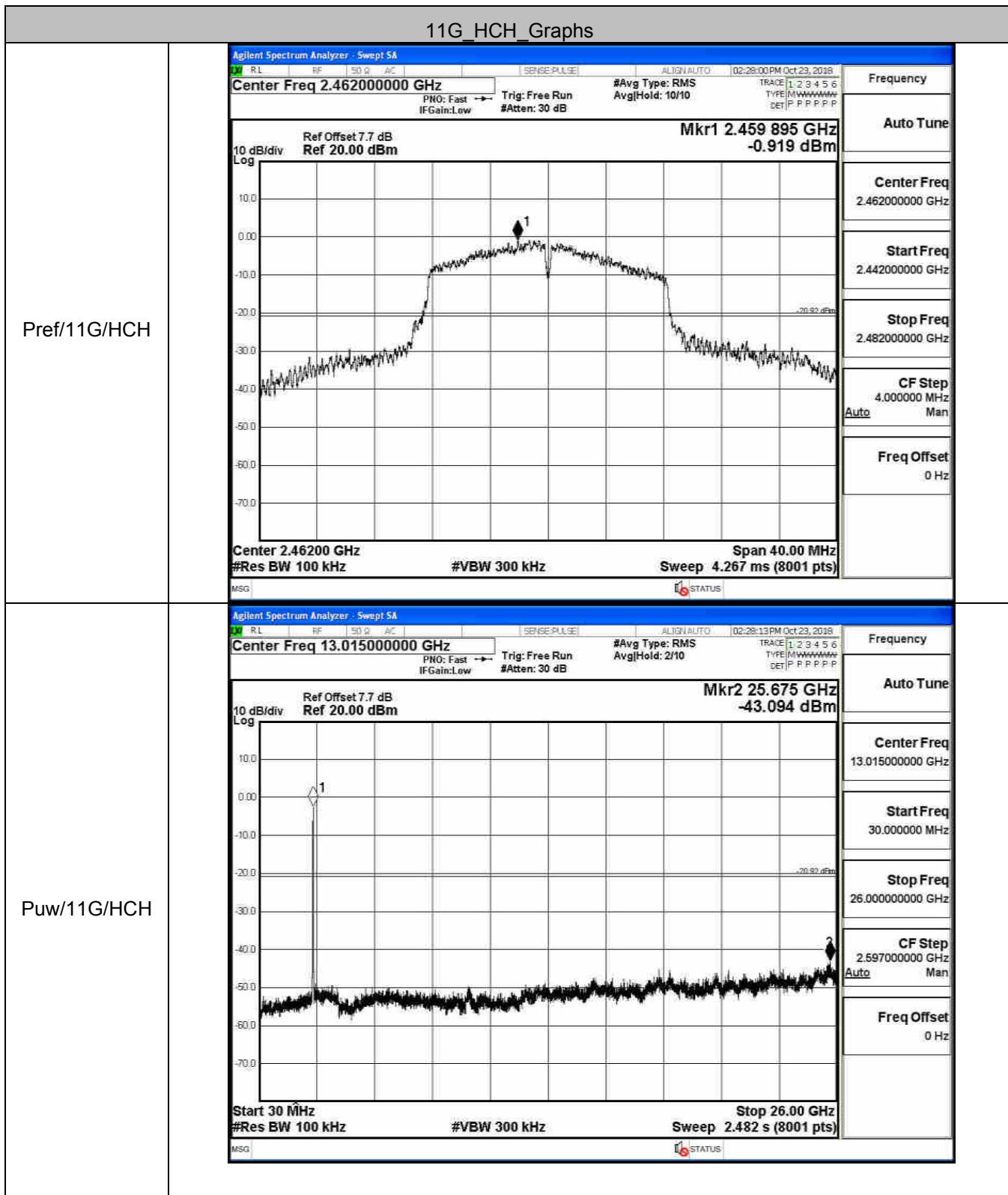


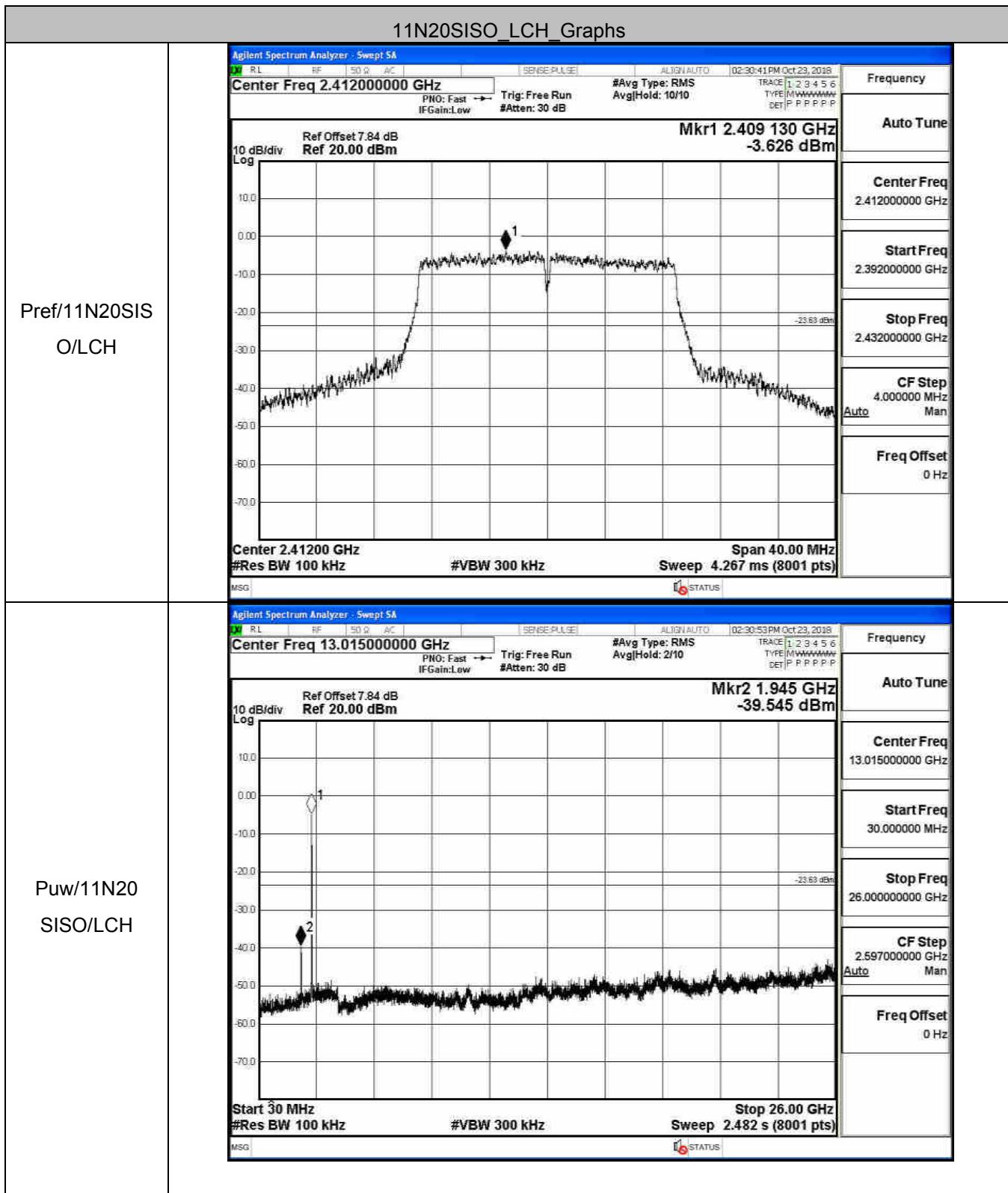


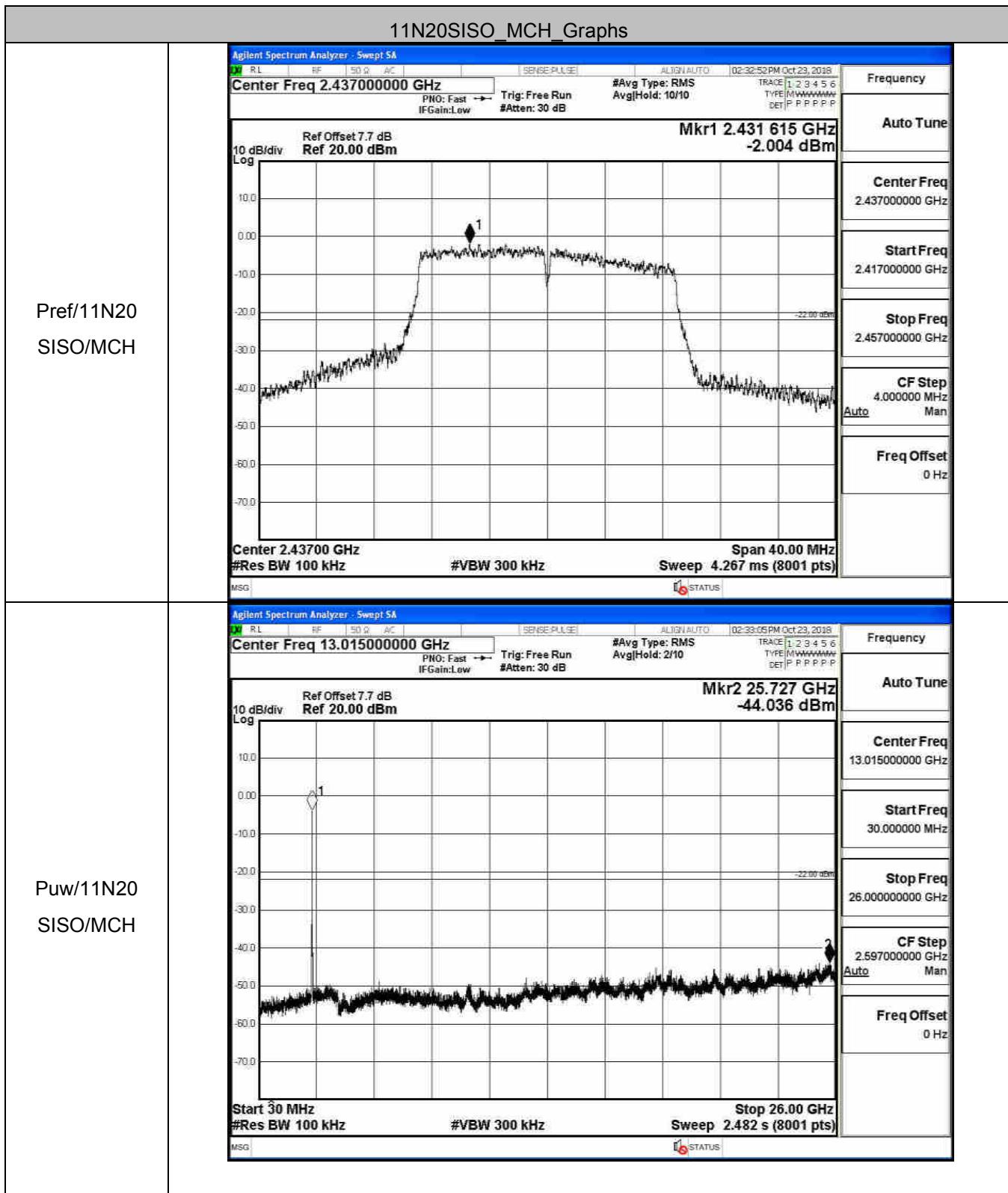


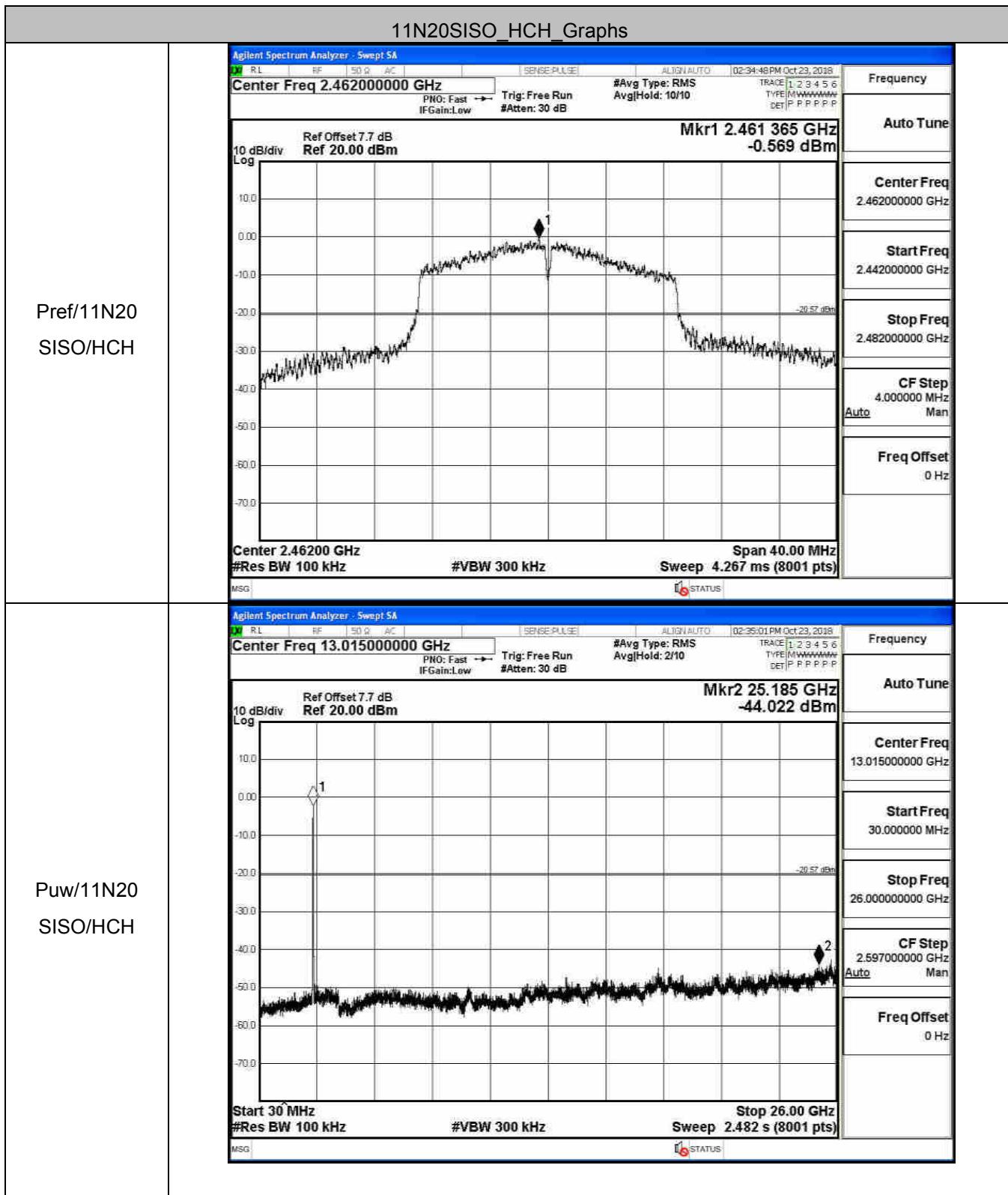


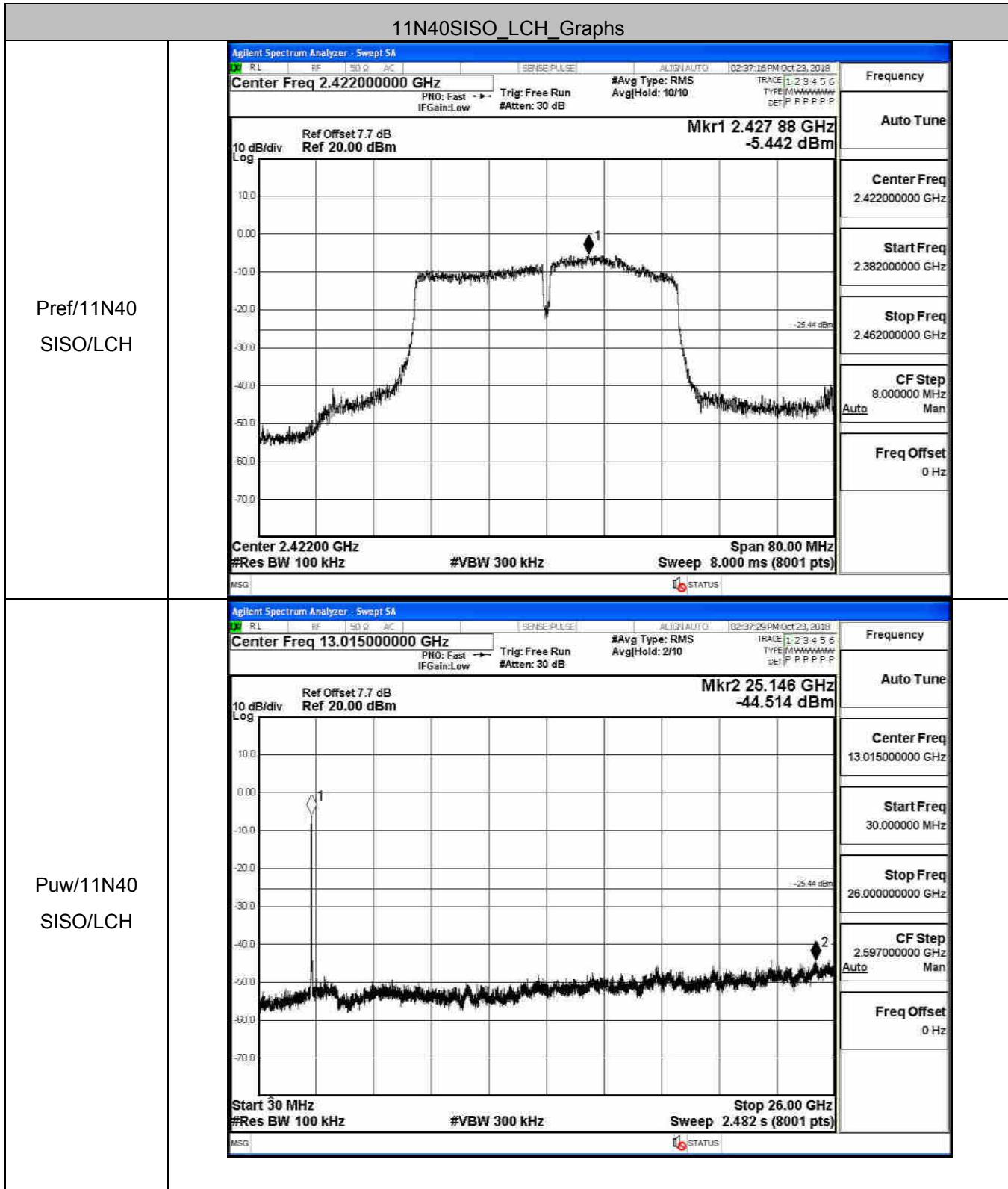


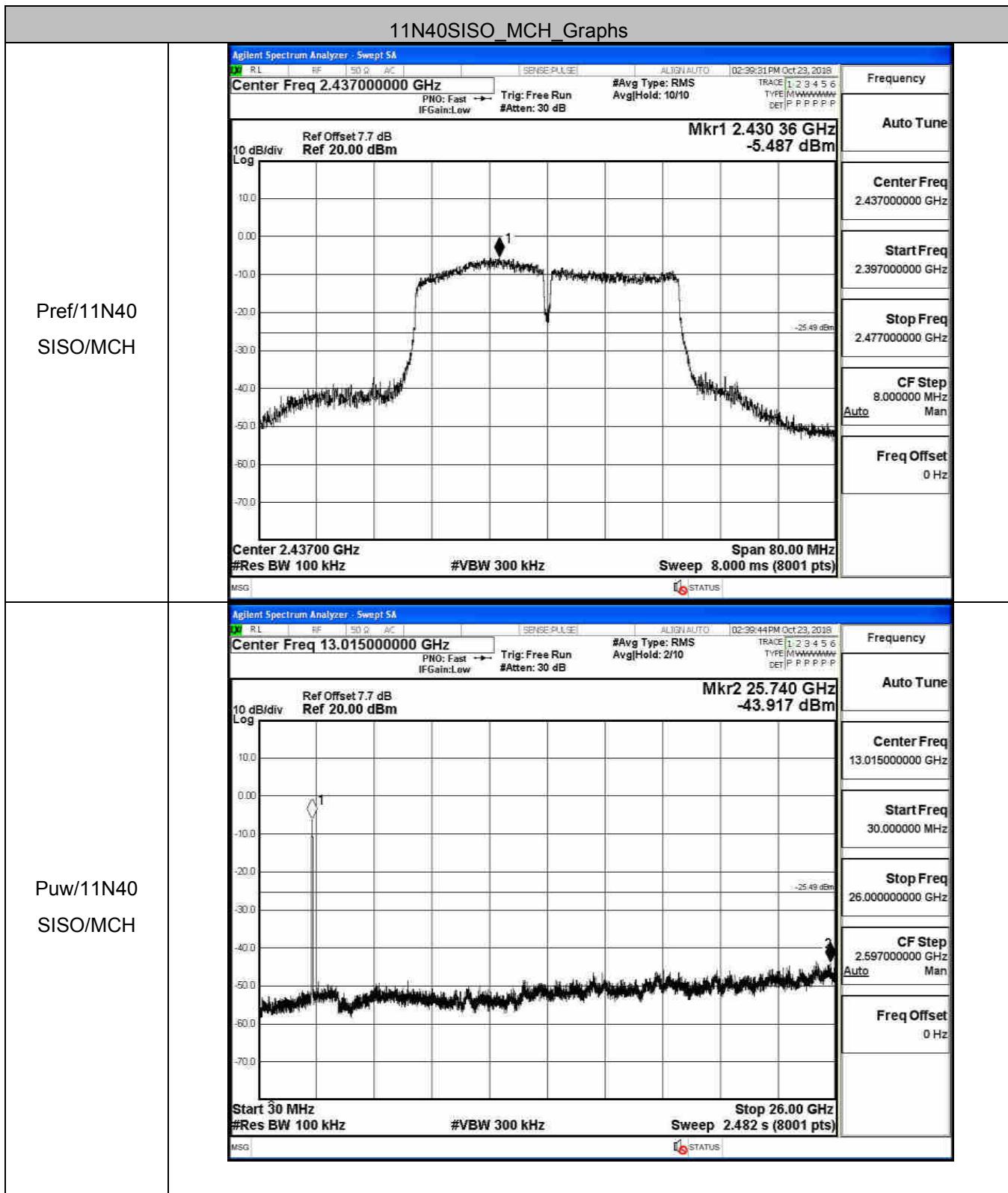


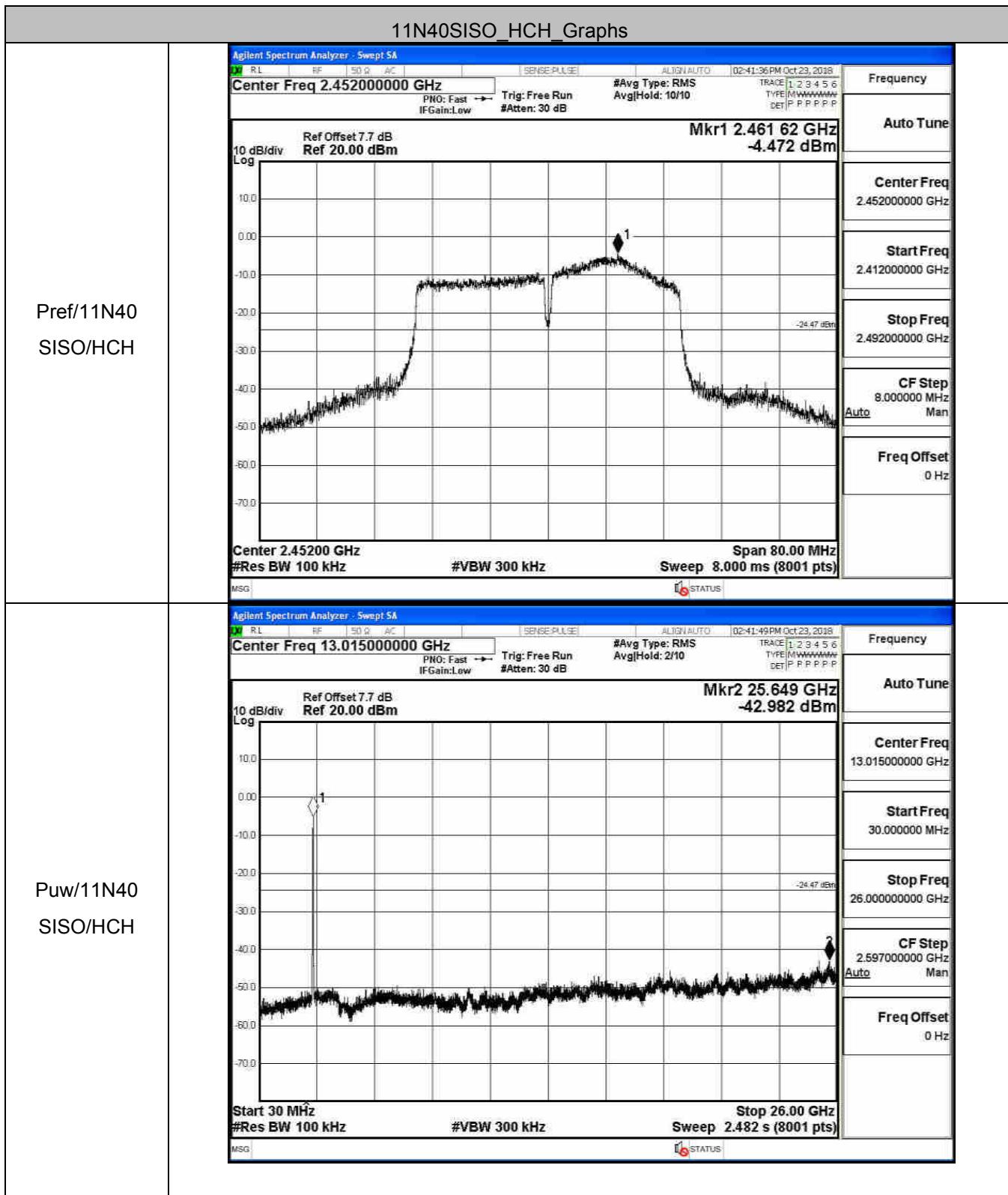






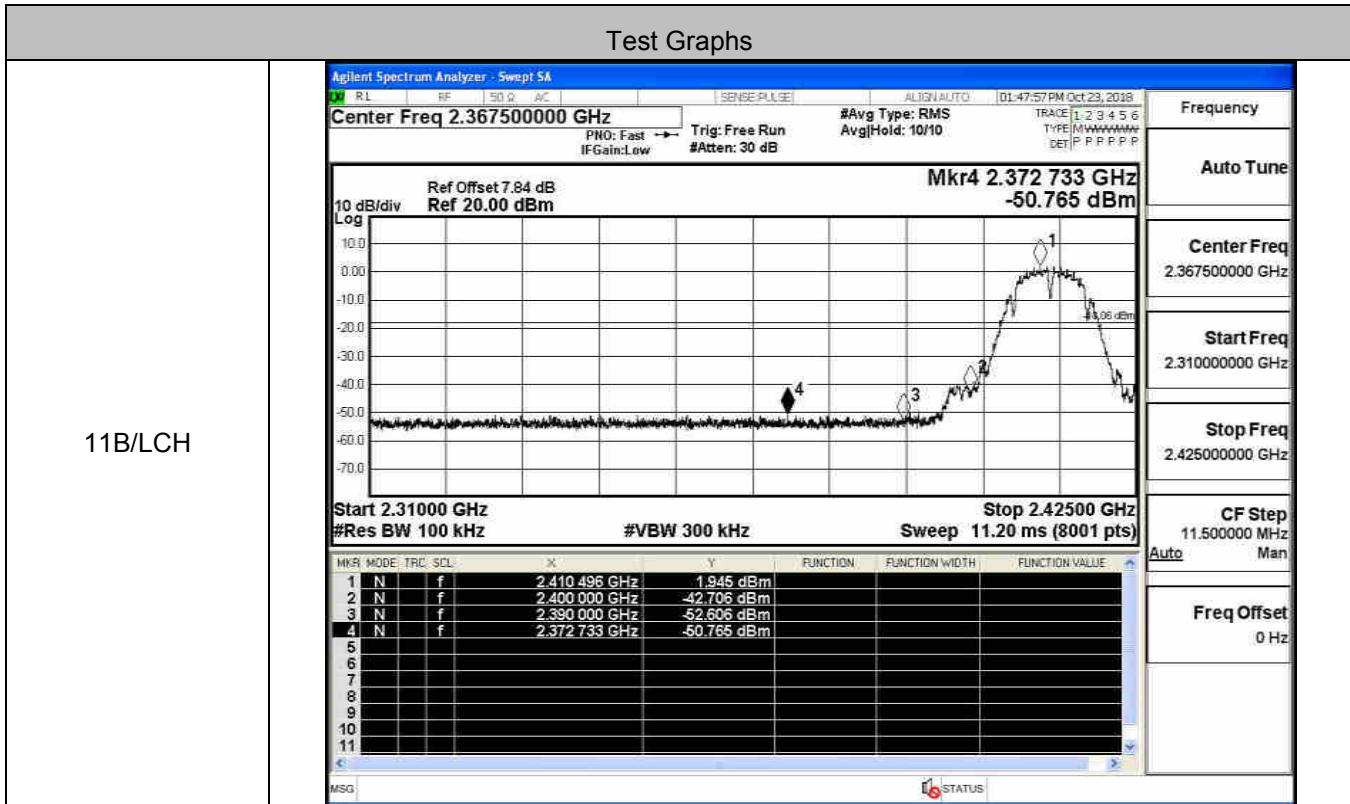


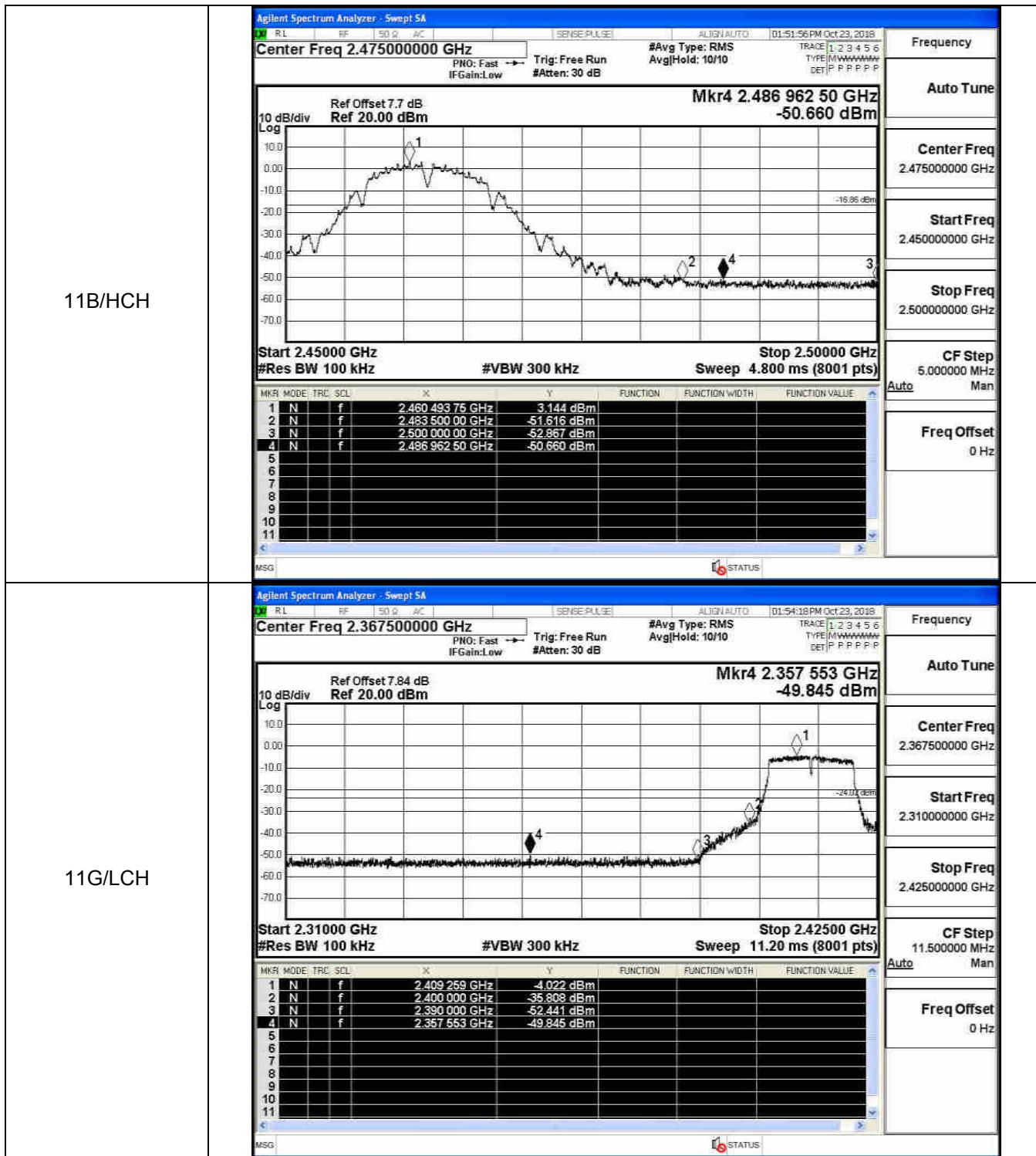


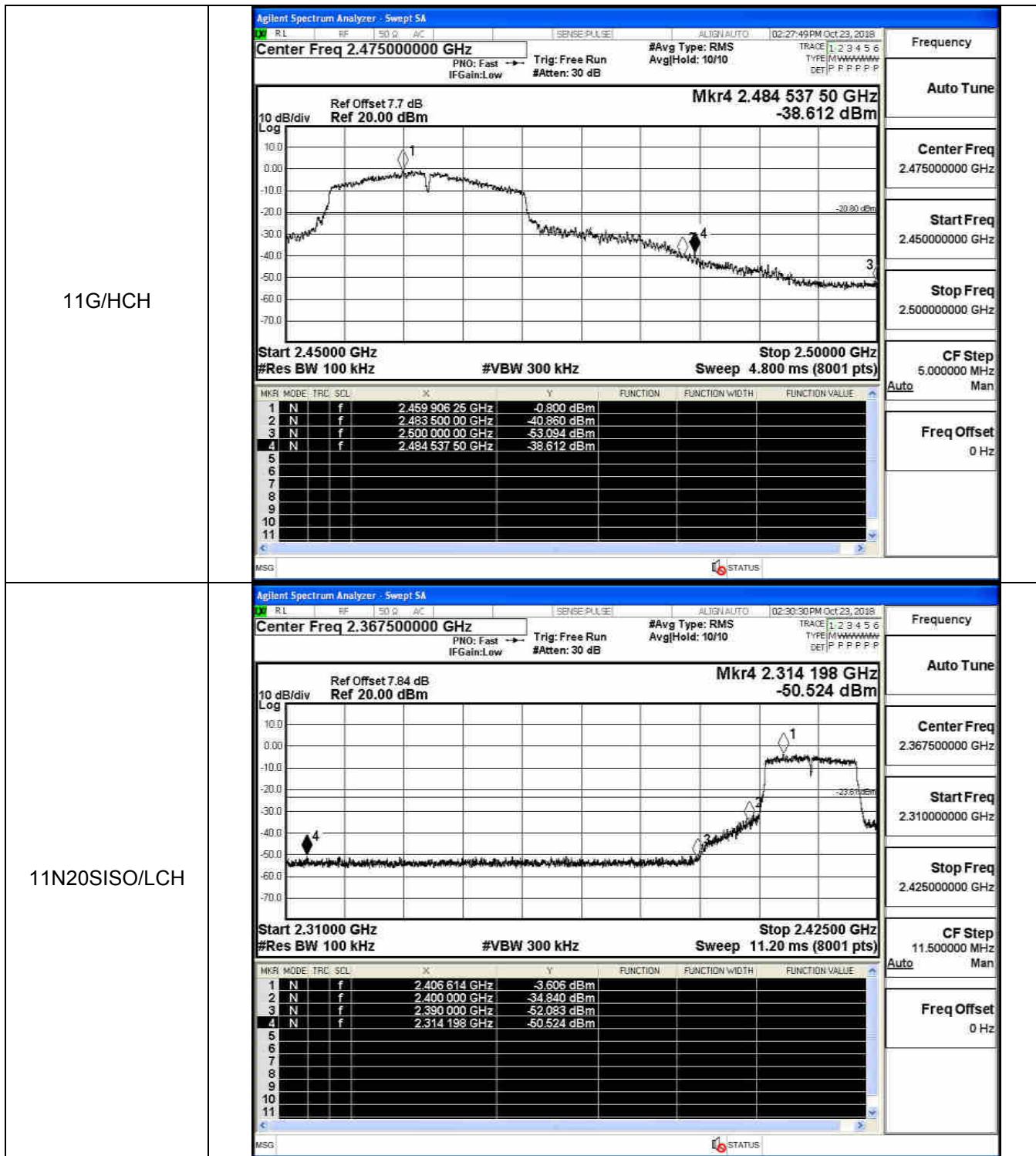


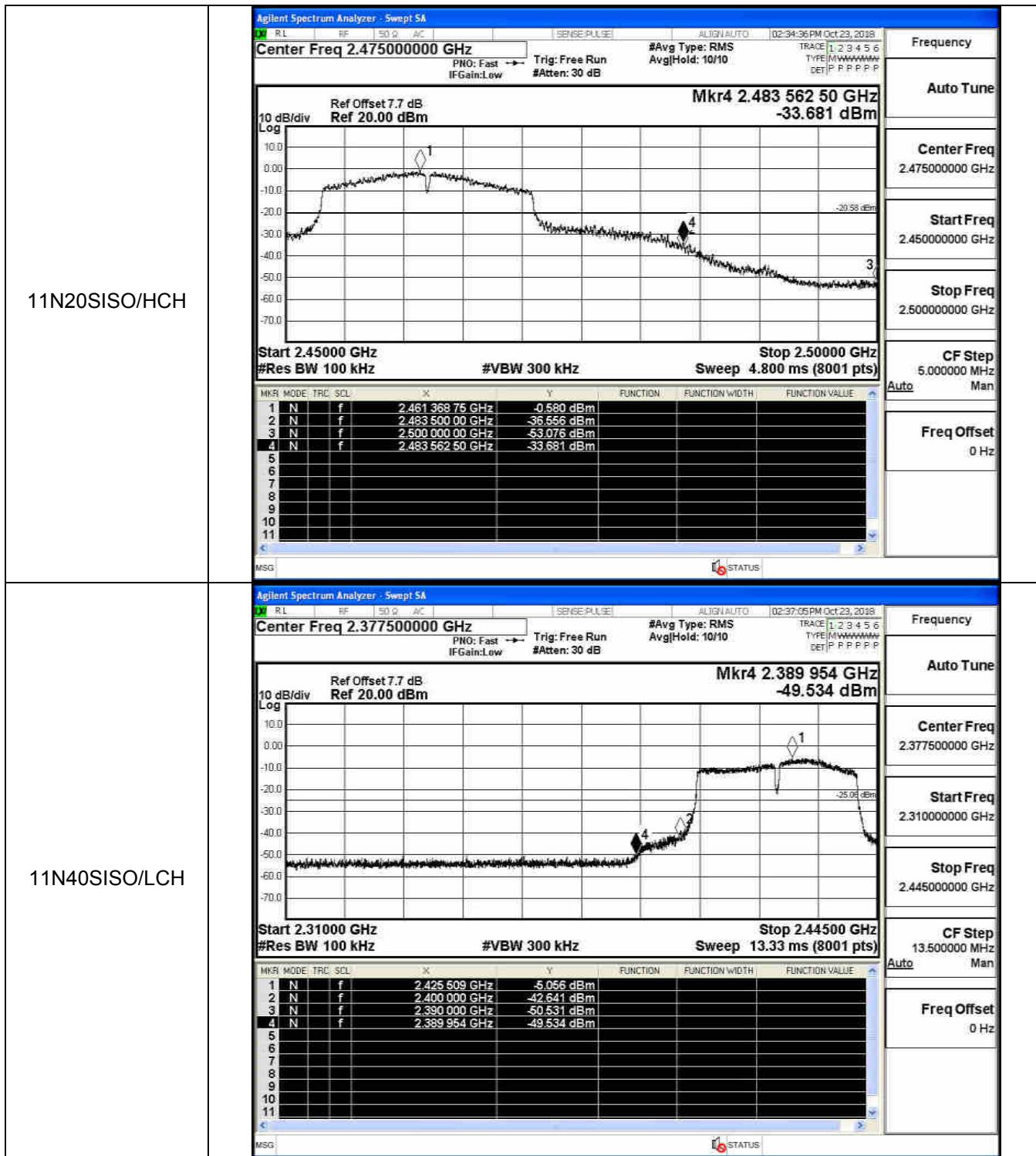
C.6 Band-edge for RF Conducted Emissions

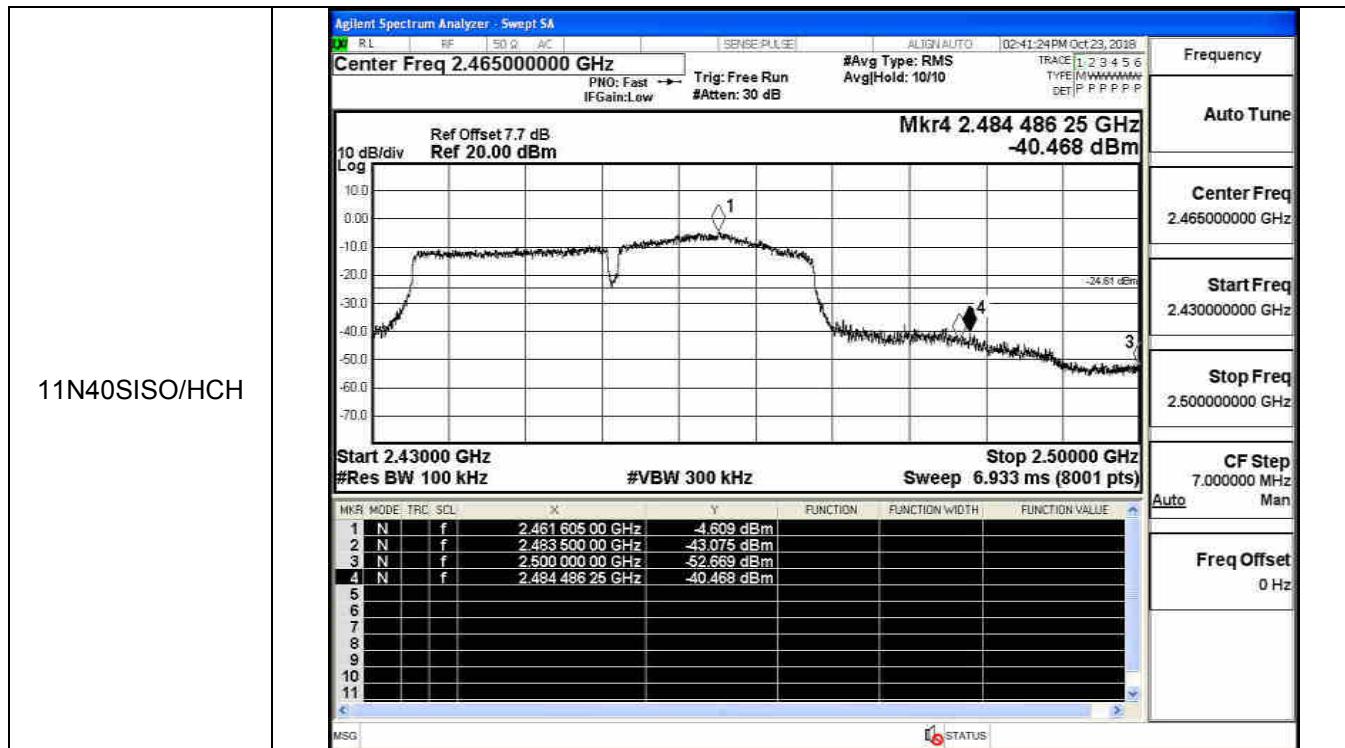
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	1.945	-50.765	-18.06	PASS
	HCH	3.144	-50.660	-16.86	PASS
11G	LCH	-4.022	-49.845	-24.02	PASS
	HCH	-0.800	-38.612	-20.8	PASS
11N20SISO	LCH	-3.606	-50.524	-23.61	PASS
	HCH	-0.580	-33.681	-20.58	PASS
11N40SISO	LCH	-5.056	-49.534	-25.06	PASS
	HCH	-4.609	-40.468	-24.61	PASS









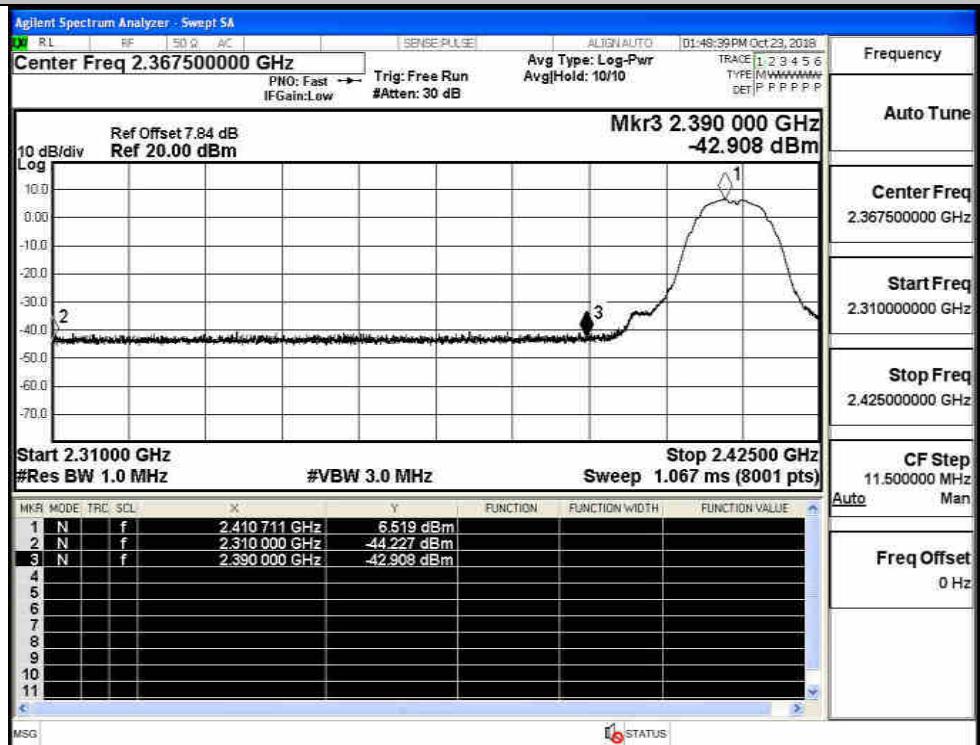


C.7 Restrict-band band-edge measurements

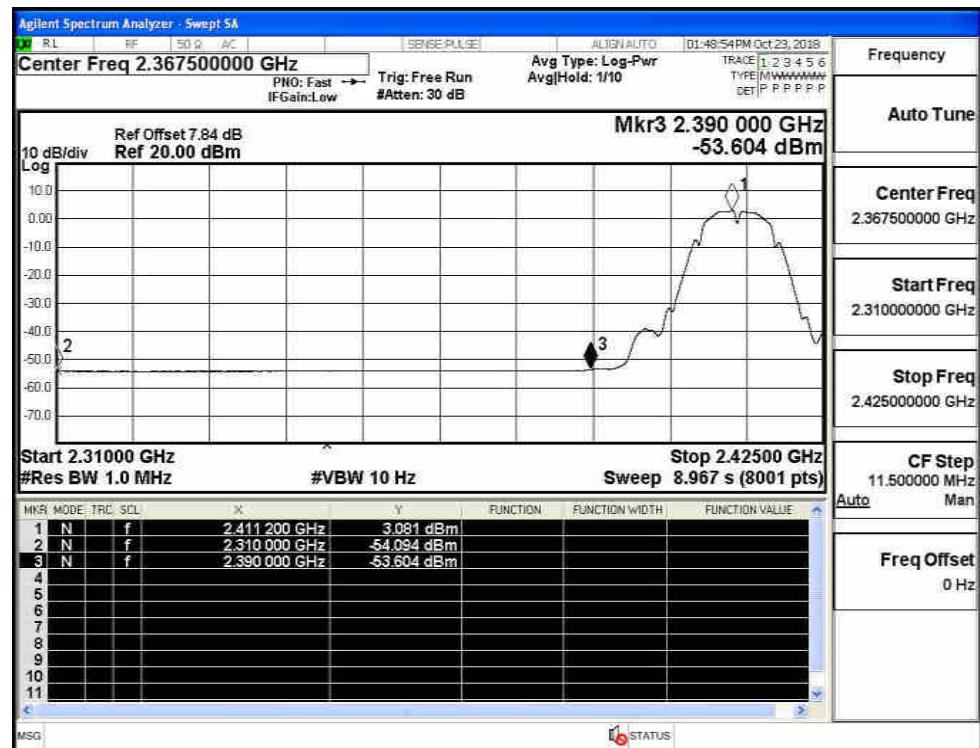
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
11B	2412	Ant1	2310.0	-44.23	2.0	0	53.00	PEAK	74	PASS
	2412	Ant1	2310.0	-54.09	2.0	0	43.14	AV	54	PASS
	2412	Ant1	2390.0	-42.91	2.0	0	54.32	PEAK	74	PASS
	2412	Ant1	2390.0	-53.60	2.0	0	43.63	AV	54	PASS
	2462	Ant1	2483.5	-42.41	2.0	0	54.82	PEAK	74	PASS
	2462	Ant1	2483.5	-51.23	2.0	0	46.00	AV	54	PASS
	2462	Ant1	2500.0	-43.68	2.0	0	53.55	PEAK	74	PASS
	2462	Ant1	2500.0	-53.65	2.0	0	43.58	AV	54	PASS
11G	2412	Ant1	2310.0	-43.70	2.0	0	53.53	PEAK	74	PASS
	2412	Ant1	2310.0	-54.14	2.0	0	43.09	AV	54	PASS
	2412	Ant1	2390.0	-38.44	2.0	0	58.79	PEAK	74	PASS
	2412	Ant1	2390.0	-52.47	2.0	0	44.76	AV	54	PASS
	2462	Ant1	2483.5	-27.42	2.0	0	69.81	PEAK	74	PASS
	2462	Ant1	2483.5	-40.20	2.0	0	57.03	AV	54	PASS
	2462	Ant1	2500.0	-44.17	2.0	0	53.06	PEAK	74	PASS
	2462	Ant1	2500.0	-53.66	2.0	0	43.57	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-44.30	2.0	0	52.93	PEAK	74	PASS
	2412	Ant1	2310.0	-54.16	2.0	0	43.07	AV	54	PASS
	2412	Ant1	2390.0	-38.26	2.0	0	58.97	PEAK	74	PASS
	2412	Ant1	2390.0	-51.82	2.0	0	45.41	AV	54	PASS
	2462	Ant1	2483.5	-32.94	2.0	0	64.29	PEAK	74	PASS
	2462	Ant1	2483.5	-49.47	2.0	0	47.76	AV	54	PASS
	2462	Ant1	2500.0	-43.61	2.0	0	53.62	PEAK	74	PASS
	2462	Ant1	2500.0	-53.63	2.0	0	43.60	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-43.32	2.0	0	53.91	PEAK	74	PASS
	2422	Ant1	2310.0	-54.26	2.0	0	42.97	AV	54	PASS

	2422	Ant1	2390.0	-38.20	2.0	0	59.03	PEAK	74	PASS
	2422	Ant1	2390.0	-50.85	2.0	0	46.38	AV	54	PASS
	2452	Ant1	2483.5	-31.76	2.0	0	65.47	PEAK	74	PASS
	2452	Ant1	2483.5	-43.46	2.0	0	53.77	AV	54	PASS
	2452	Ant1	2500.0	-41.33	2.0	0	55.90	PEAK	74	PASS
	2452	Ant1	2500.0	-53.70	2.0	0	43.53	AV	54	PASS

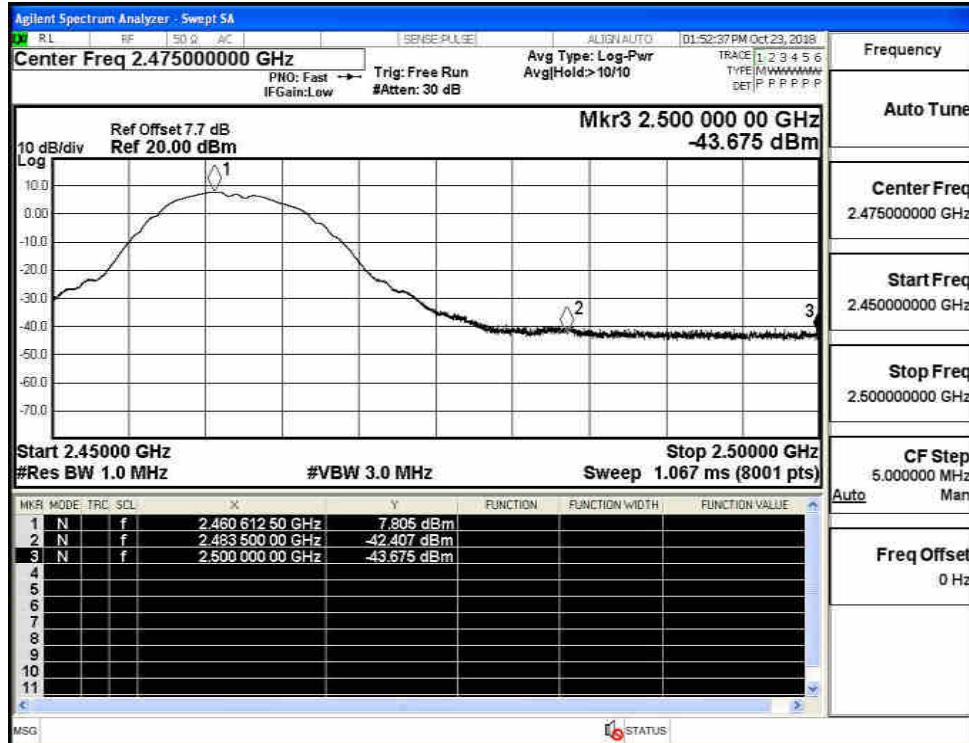
Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



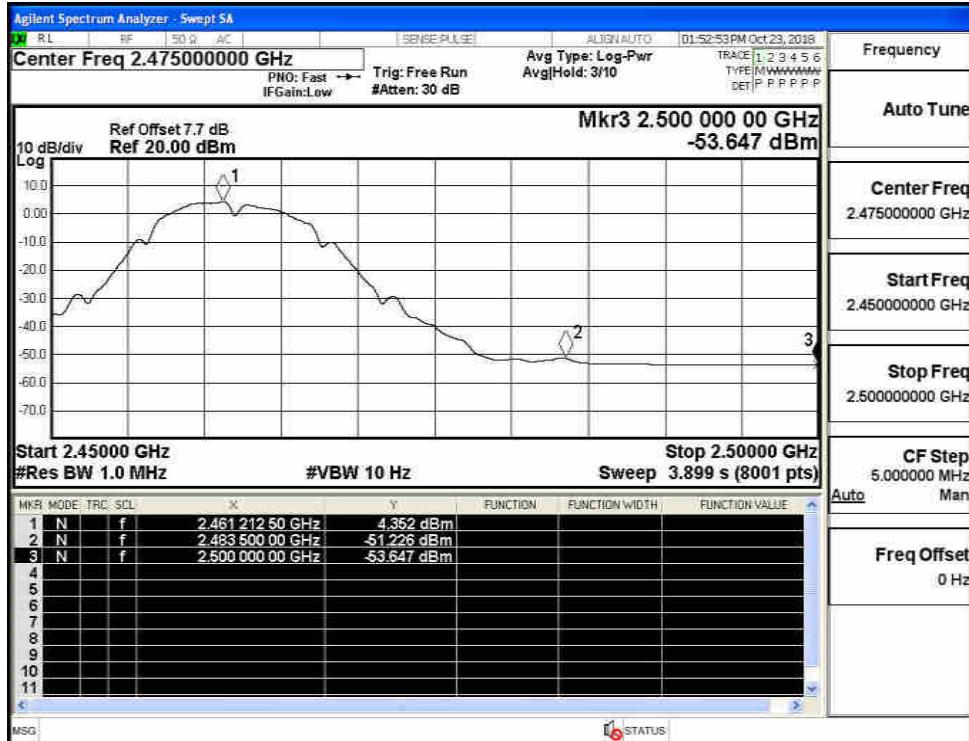
Restrict-band band-edge measurements_11B_2412_Ant1_AV



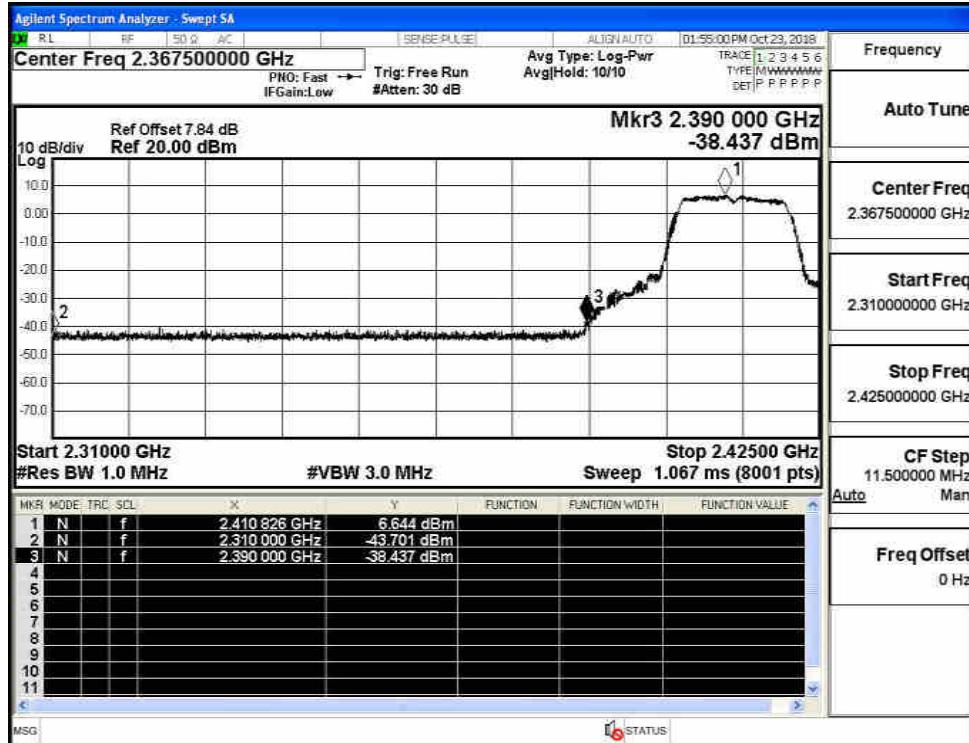
Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



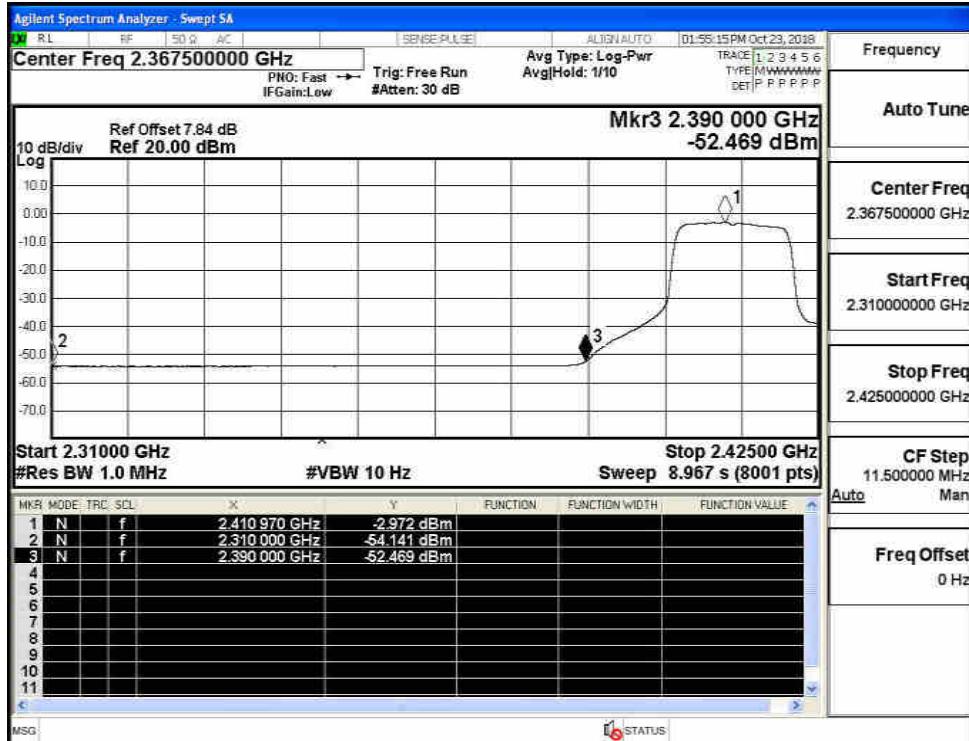
Restrict-band band-edge measurements_11B_2462_Ant1_AV



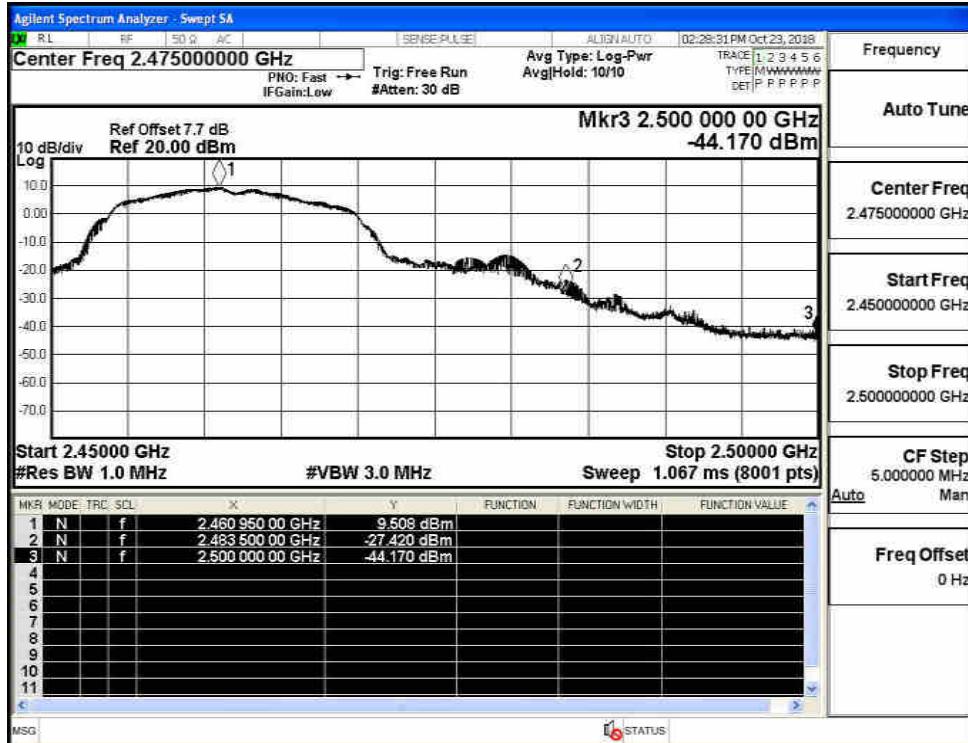
Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



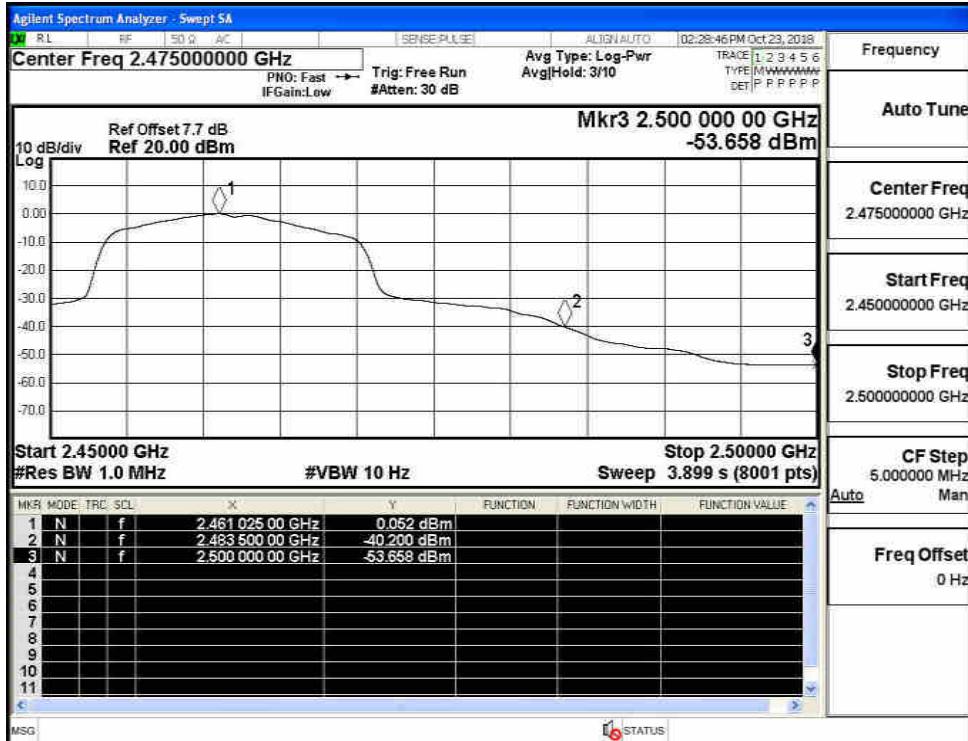
Restrict-band band-edge measurements_11G_2412_Ant1_AV



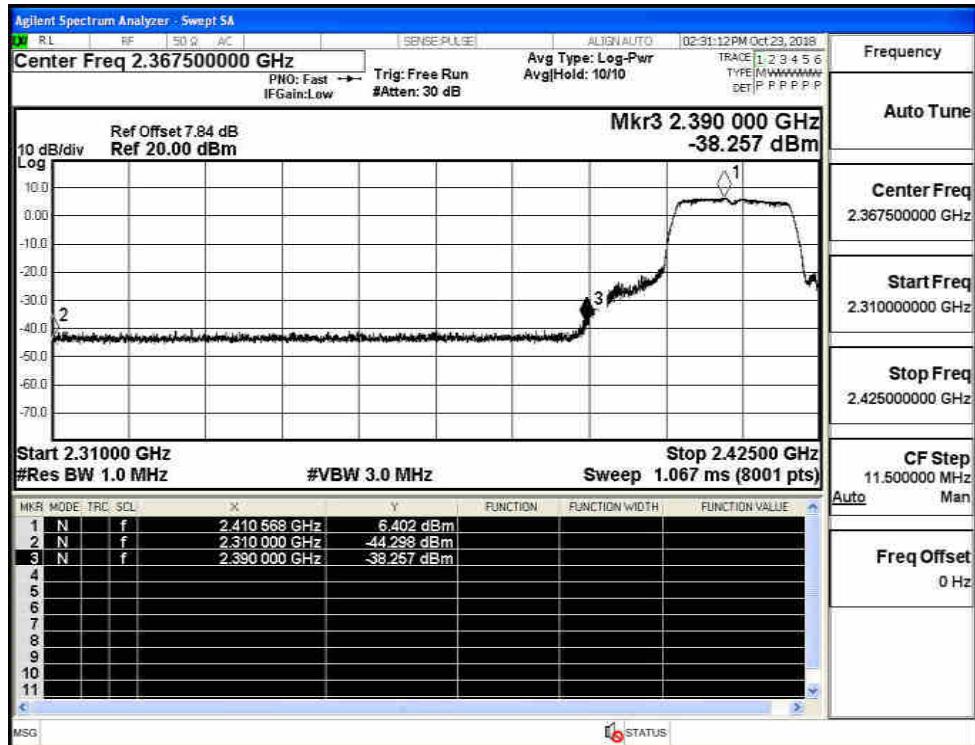
Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



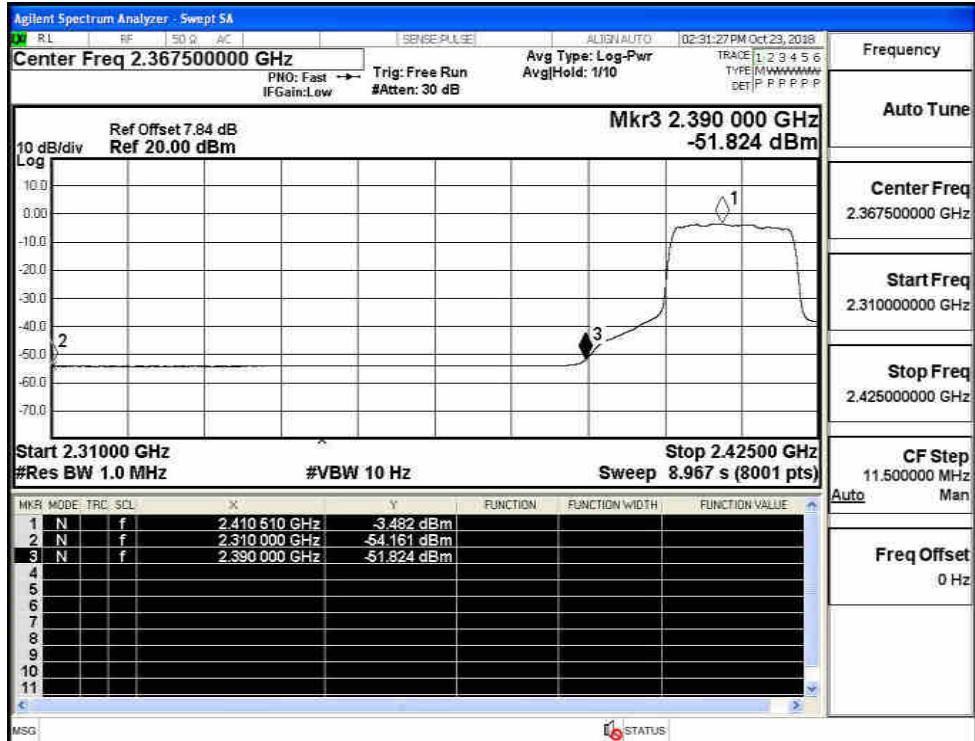
Restrict-band band-edge measurements_11G_2462_Ant1_AV



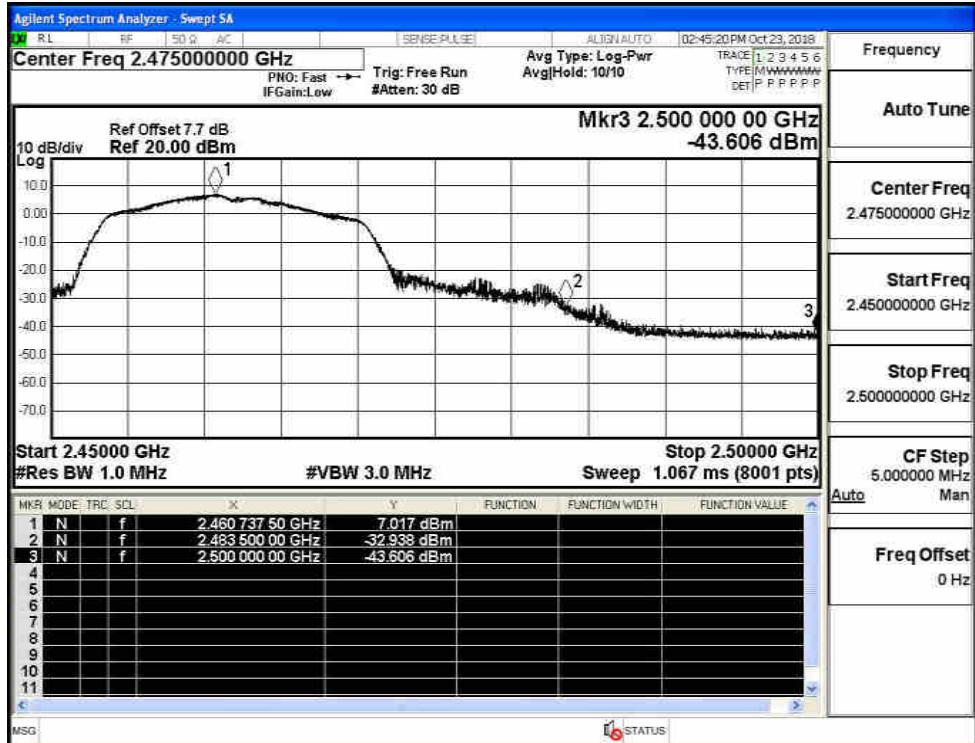
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



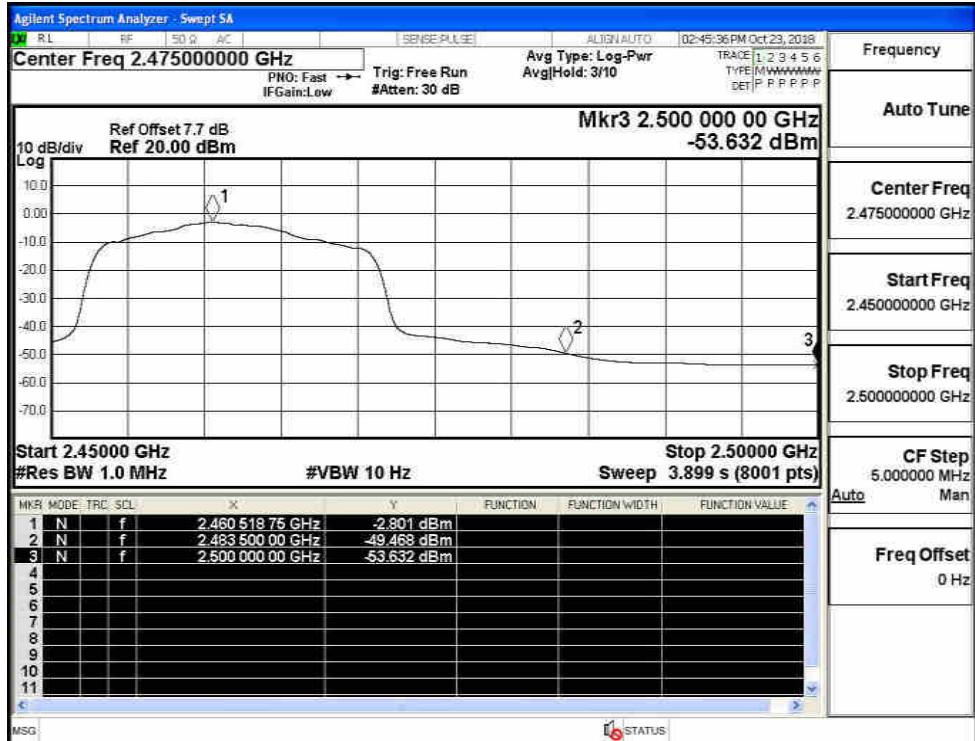
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_AV



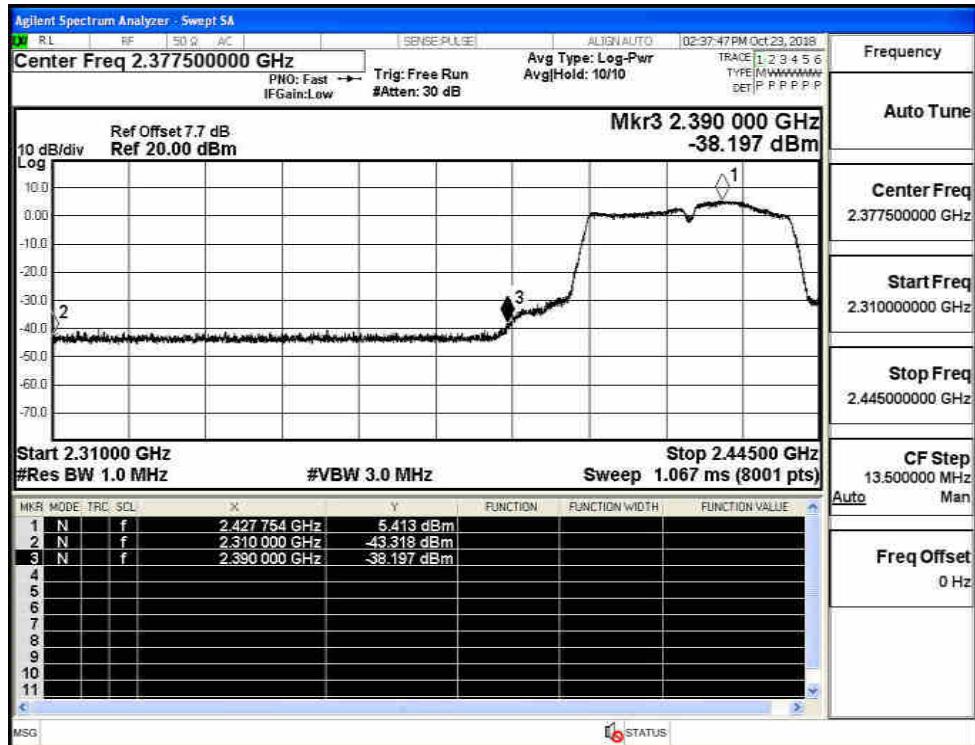
Restrict-band band-edge measurements_11N20SISO_2462_Ant1_PEAK



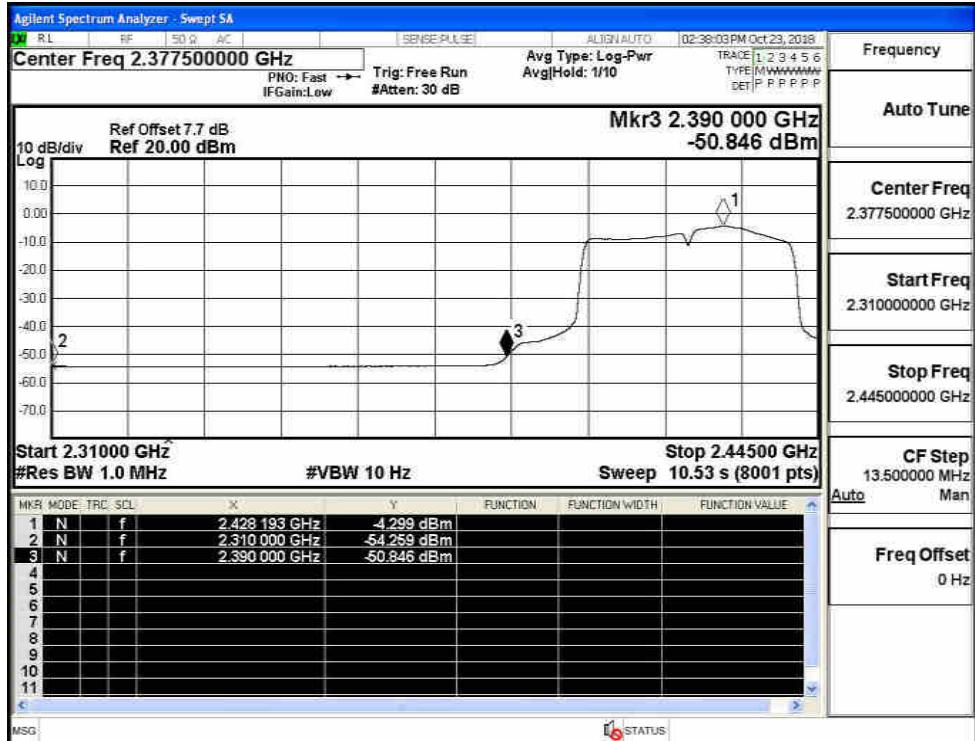
Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV



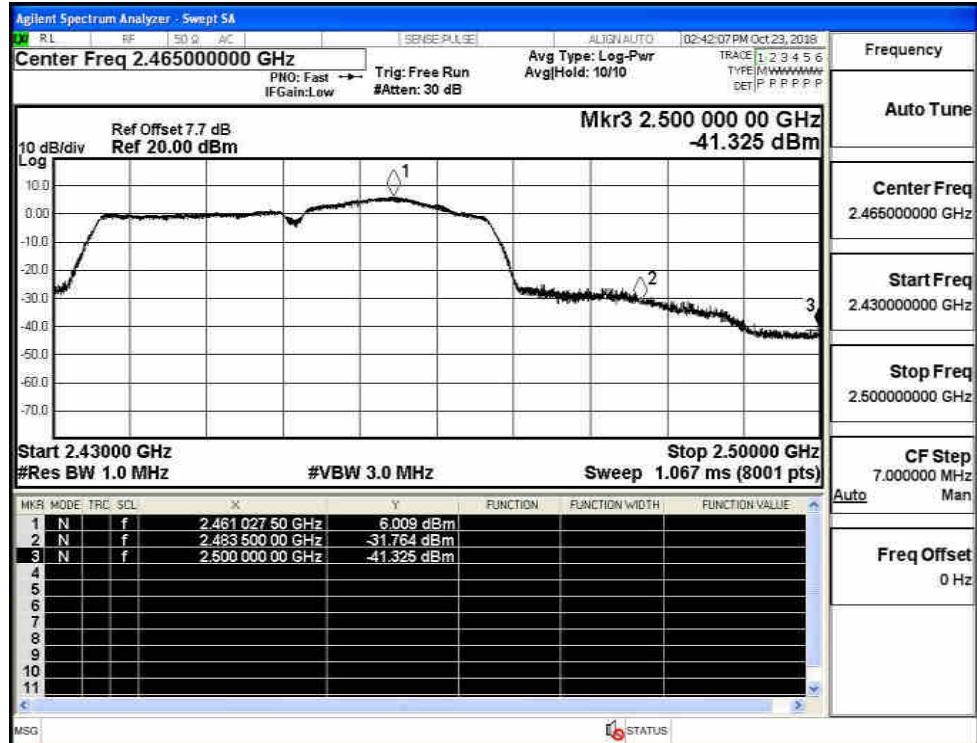
Restrict-band band-edge measurements_11N40SISO_2422_Ant1_PEAK



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

