Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

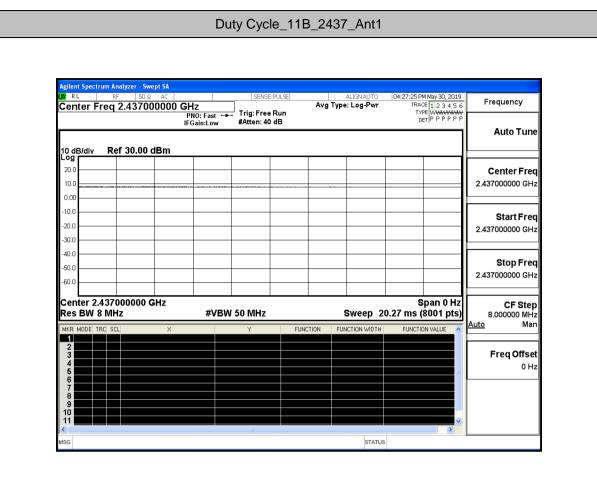
Product Name: Smart Dimmer Switch Trade Mark: N/A **Test Model: SD01**

Environmental Conditions

	Temperature:	24.3 ° C					
Relative Humidity: ATM Pressure: Test Engineer:		53.4%					
		100.0 kPa					
		JERRY.ZENG					
	Supervised by:	Tom.Liu					

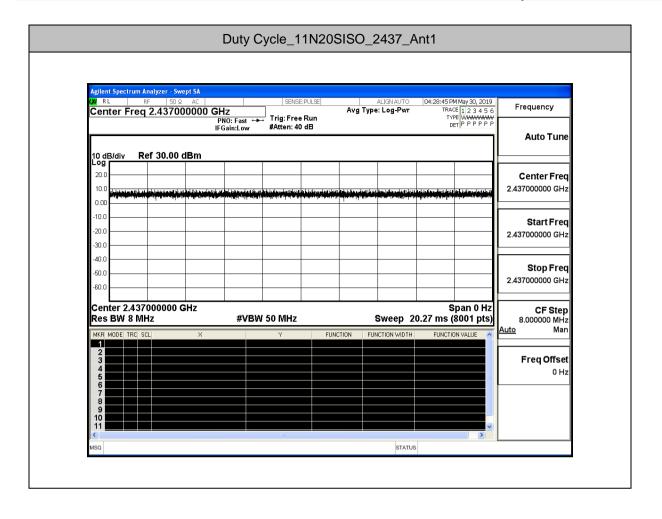
A.1 Duty Cycle

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



Duty Cycle_11G_2437_Ant1



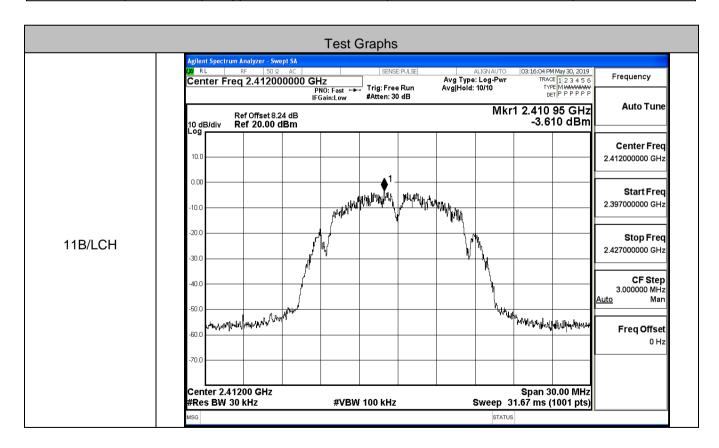


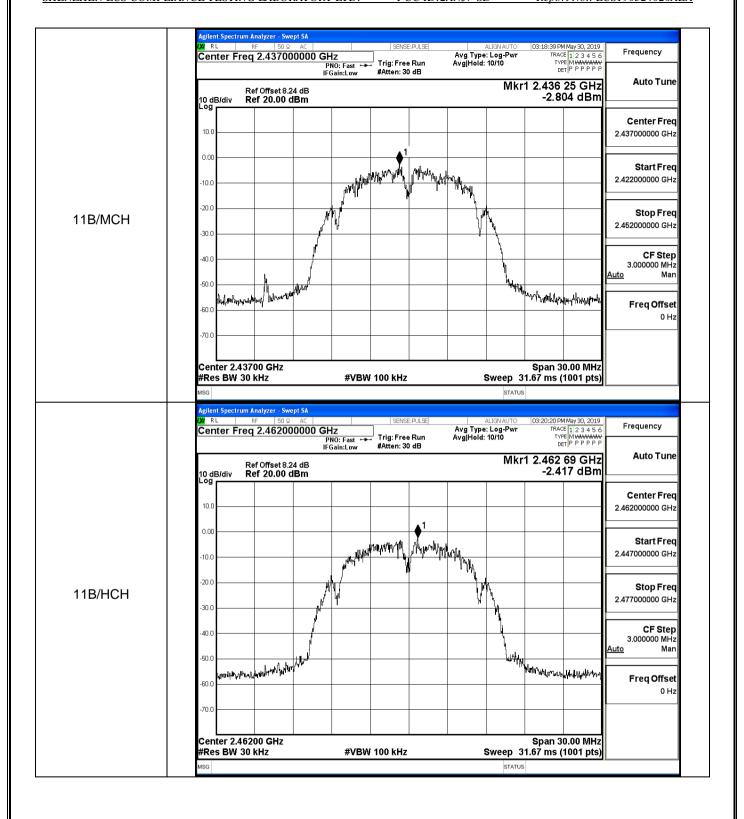
A.2 Maximum Conducted Output Power

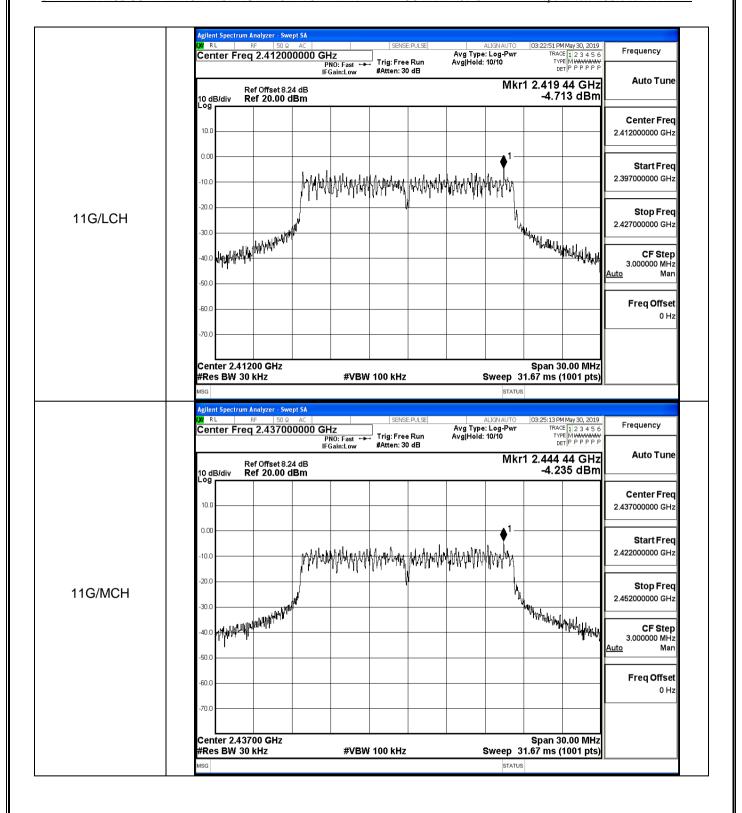
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
	LCH	11.12	30	PASS
11B	MCH	11.71	30	PASS
	HCH	11.6	30	PASS
	LCH	16.04	30	PASS
11G	MCH	16.4	30	PASS
	HCH	16.64	30	PASS
	LCH	15.67	30	PASS
11N20SISO	MCH	15.96	30	PASS
	HCH	16.27	30	PASS

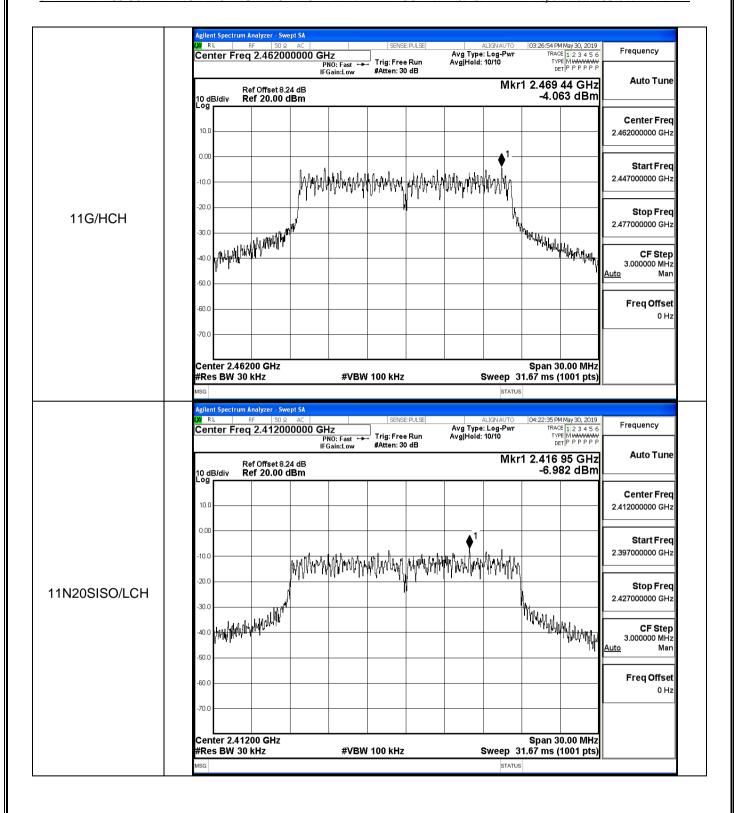
A.3 Maximum Power Spectral Density

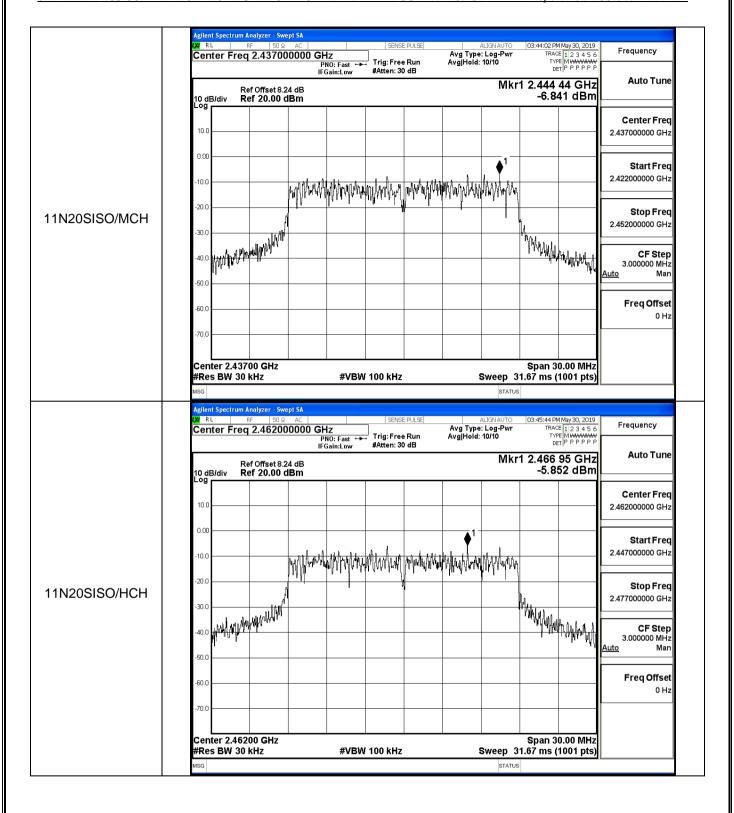
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
	LCH	-3.610	8	PASS
11B	MCH	-2.804	8	PASS
	HCH	-2.417	8	PASS
	LCH	-4.713	8	PASS
11G	MCH	-4.235	8	PASS
	HCH	-4.063	8	PASS
	LCH	-6.982	8	PASS
11N20SISO	MCH	-6.841	8	PASS
	HCH	-5.852	8	PASS
	LCH	#ppsd11n40siso1mchnn	8	PASS
11N40SISO	MCH	#ppsd11n40siso1mchnn	8	PASS
	HCH	#ppsd11n40siso1hchnn	8	PASS





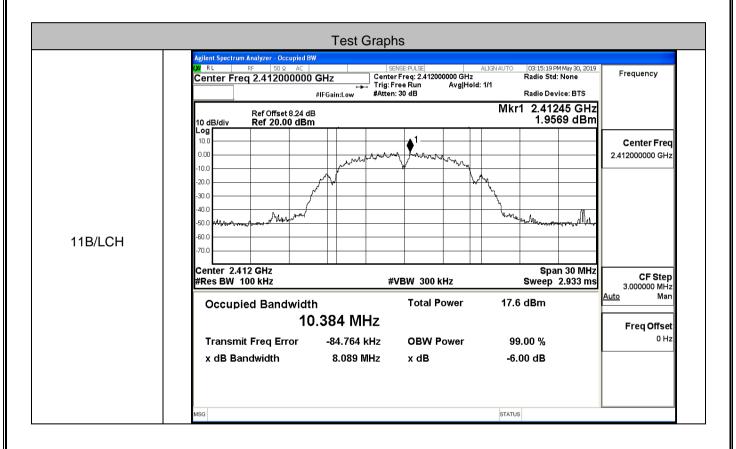


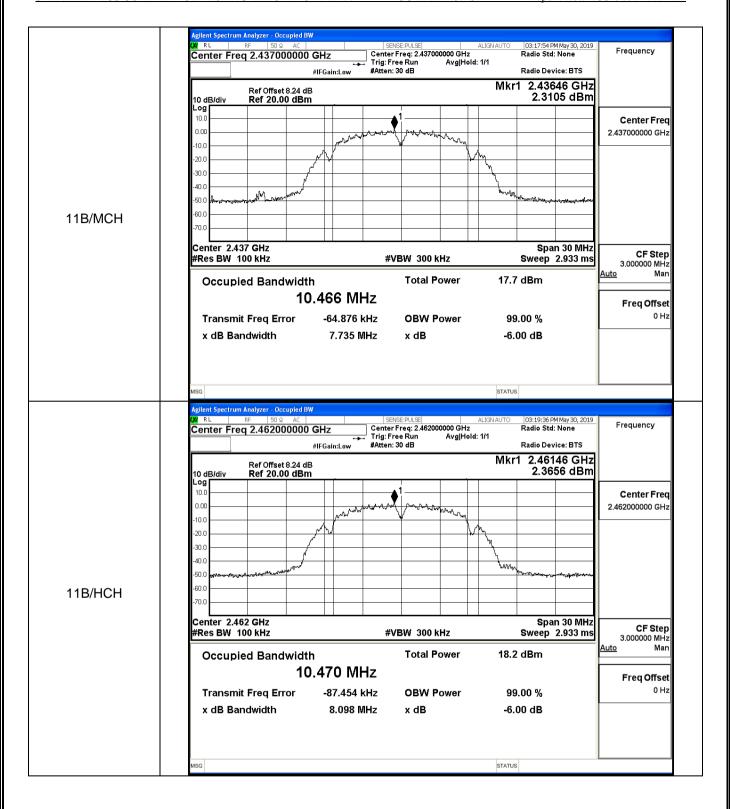


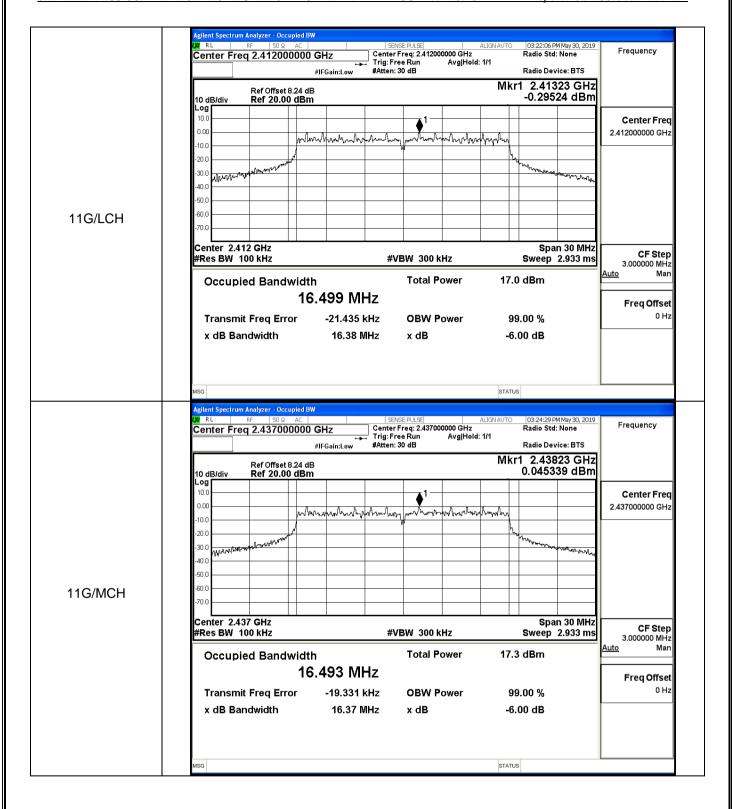


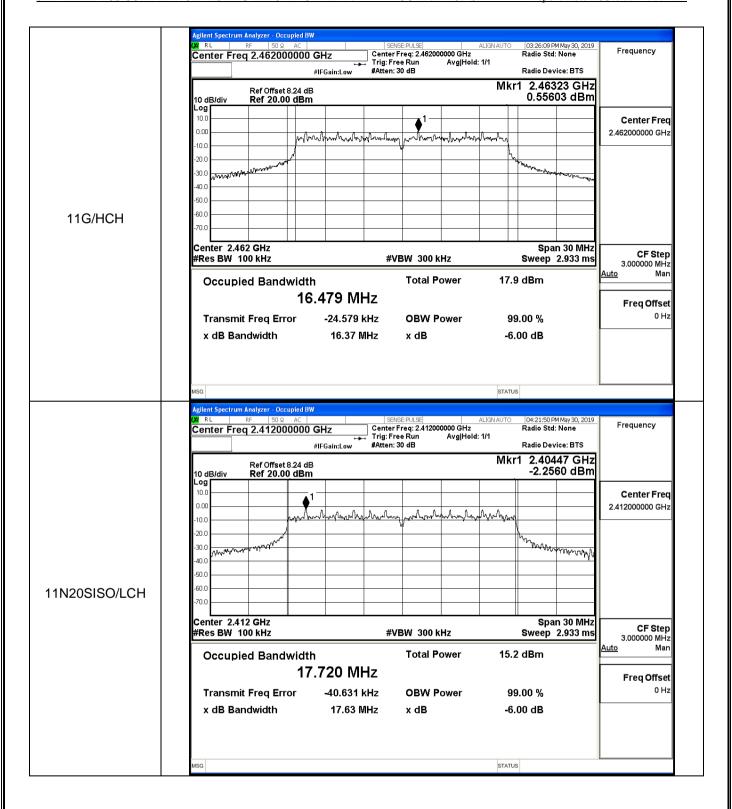
A.4 6dB Bandwidth

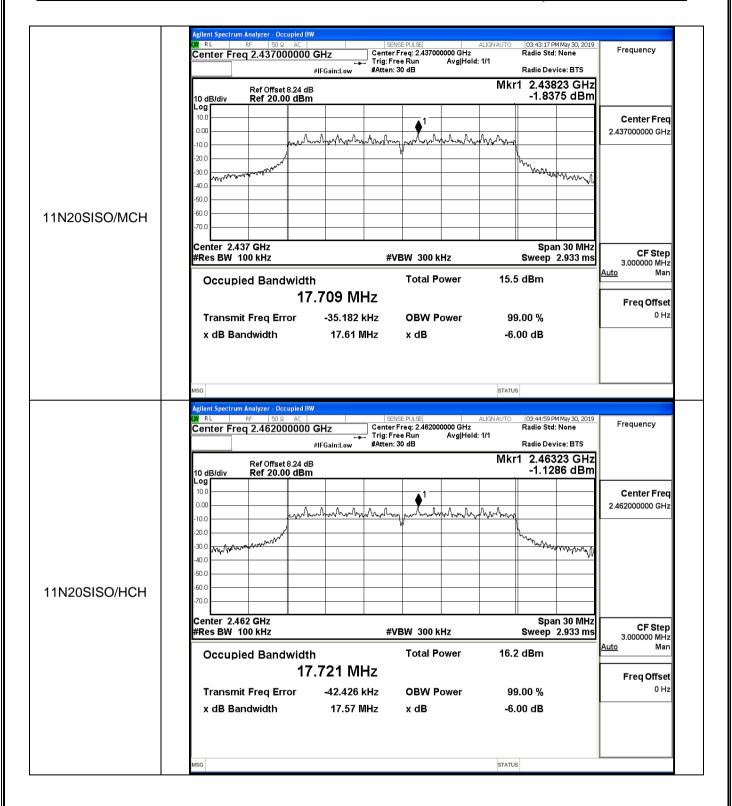
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	8.089	≥0.5	PASS
11B	MCH	7.735	≥0.5	PASS
	НСН	8.098	≥0.5	PASS
	LCH	16.38	≥0.5	PASS
11G	MCH	16.37	≥0.5	PASS
	НСН	16.37	≥0.5	PASS
	LCH	17.63	≥0.5	PASS
11N20SISO	MCH	17.61	≥0.5	PASS
	НСН	17.57	≥0.5	PASS





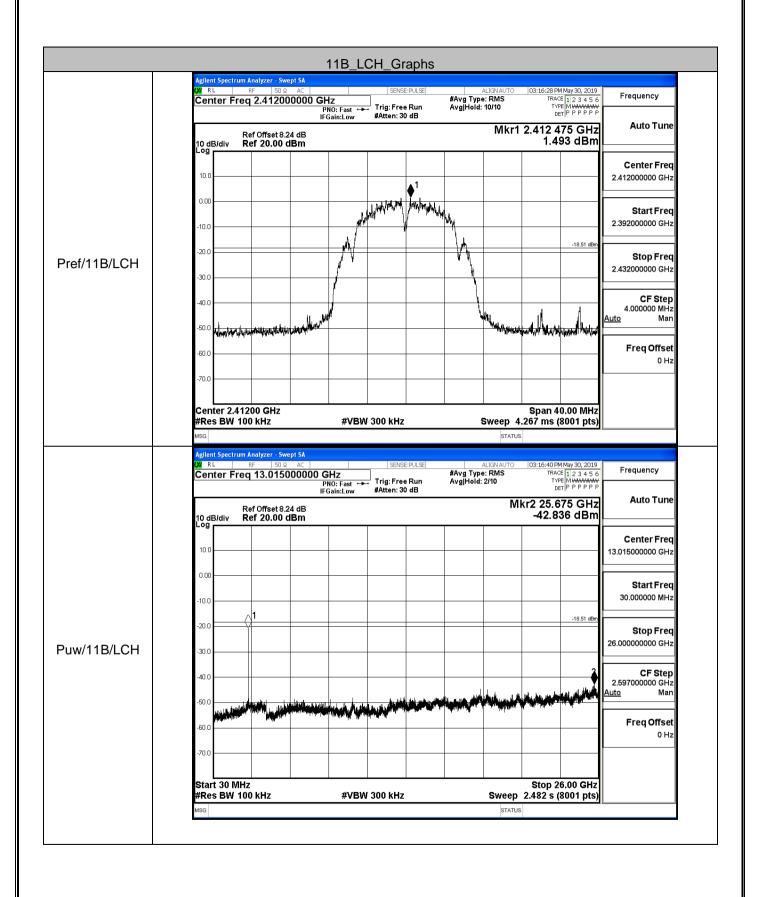


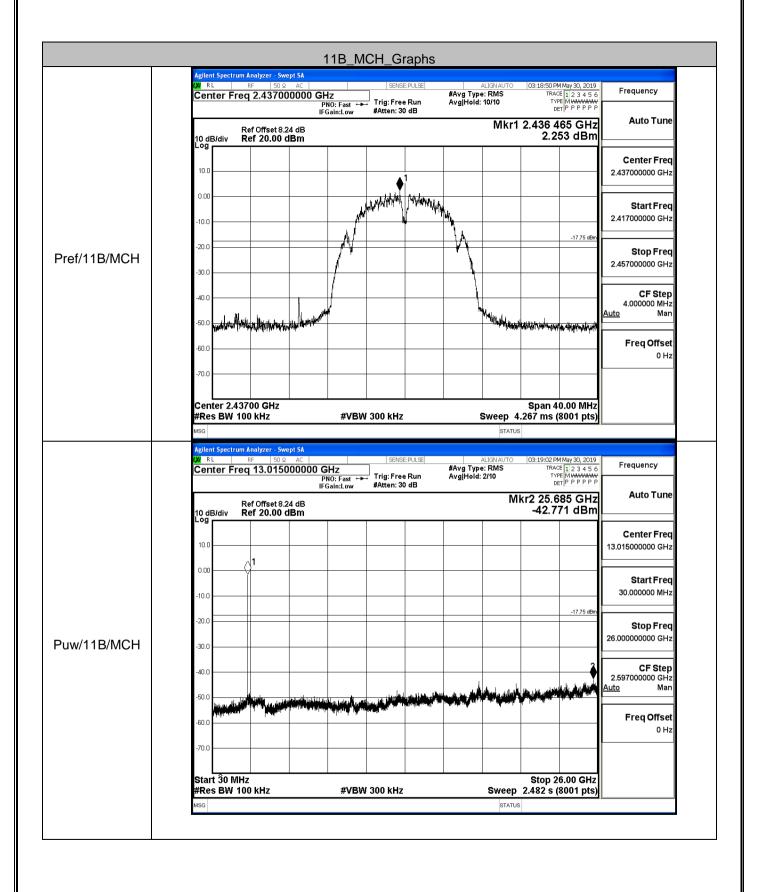


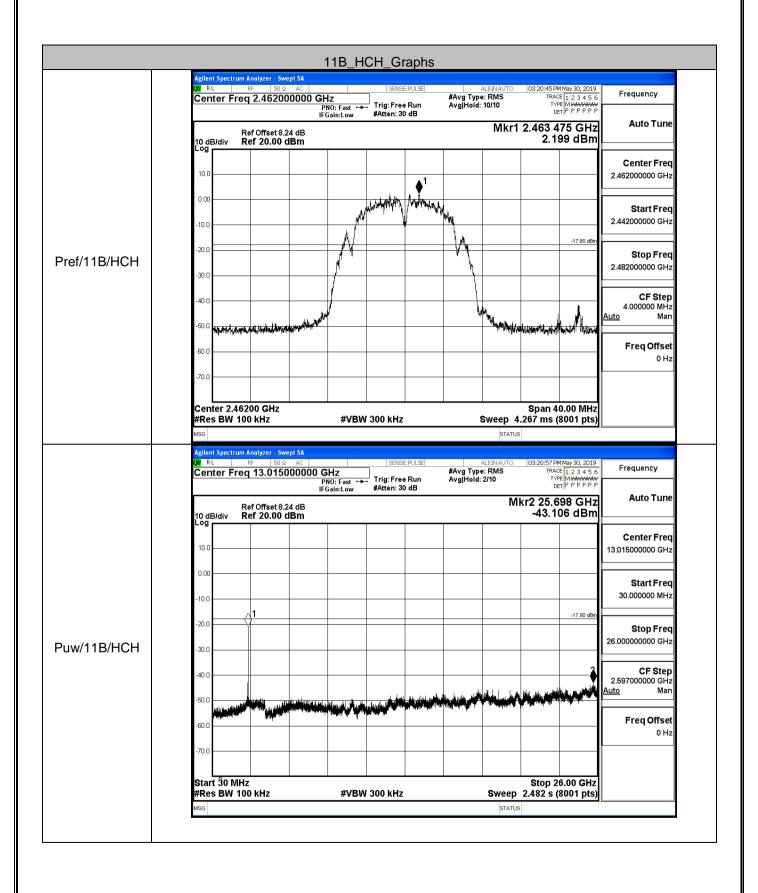


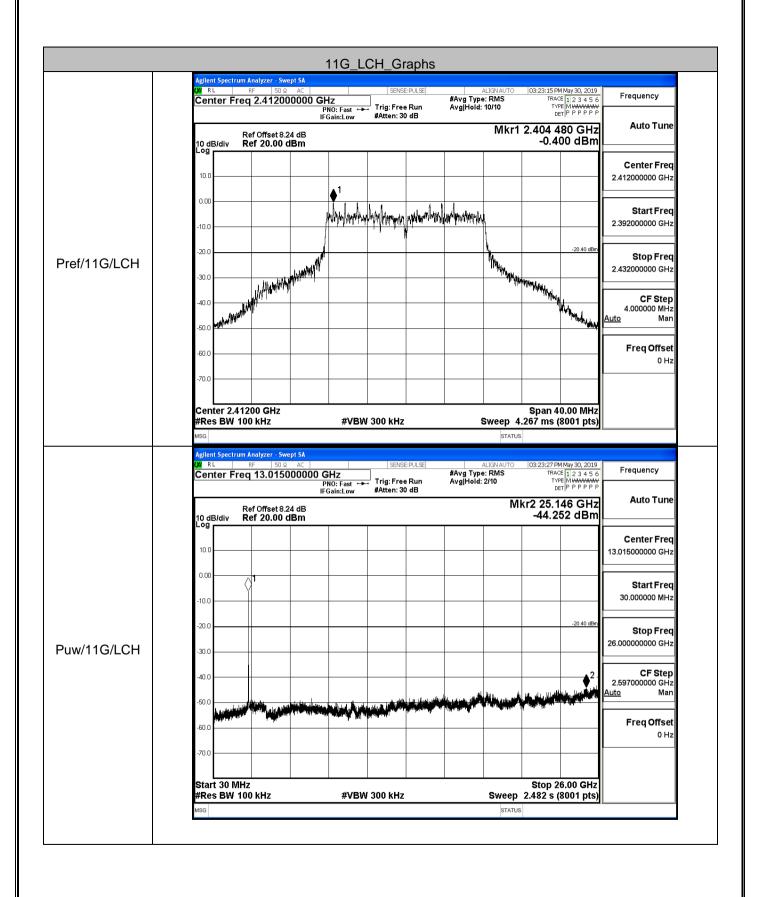
A.5 RF Conducted Spurious Emissions

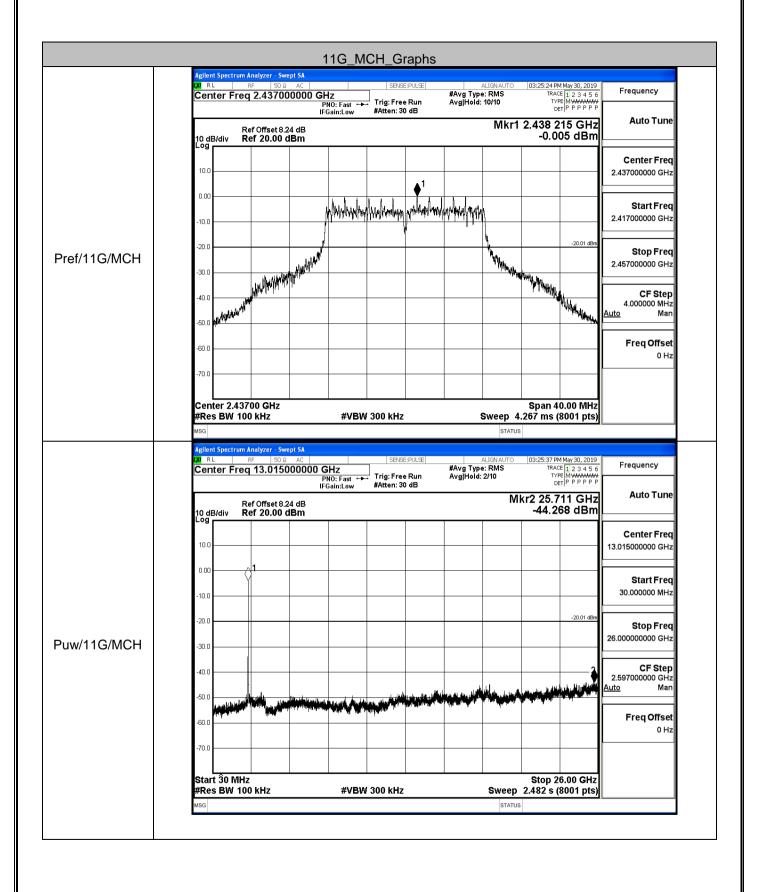
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdic t
	LCH	1.493	-42.836	-18.507	PASS
11B	MCH	2.253	-42.771	-17.747	PASS
	HCH	2.199	-43.106	-17.801	PASS
	LCH	-0.4	-44.252	-20.400	PASS
11G	MCH	-0.005	-44.268	-20.005	PASS
	НСН	0.331	-44.101	-19.669	PASS
	LCH	-1.764	-43.961	-21.764	PASS
11N20	MCH	-1.833	-44.009	-21.833	PASS
SISO	НСН	-1.45	-43.407	-21.450	PASS

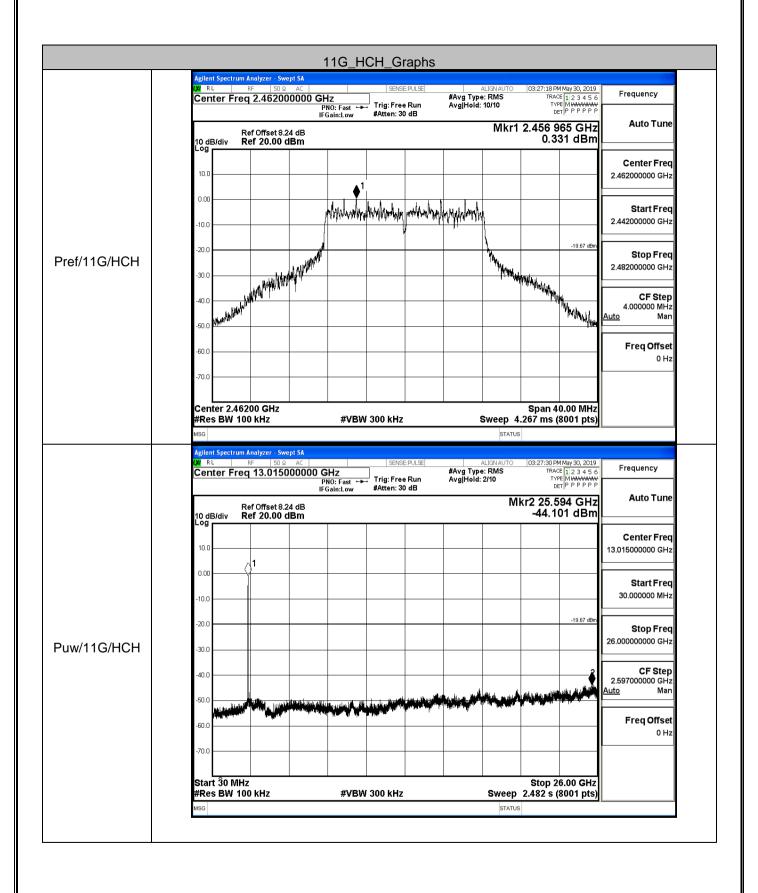


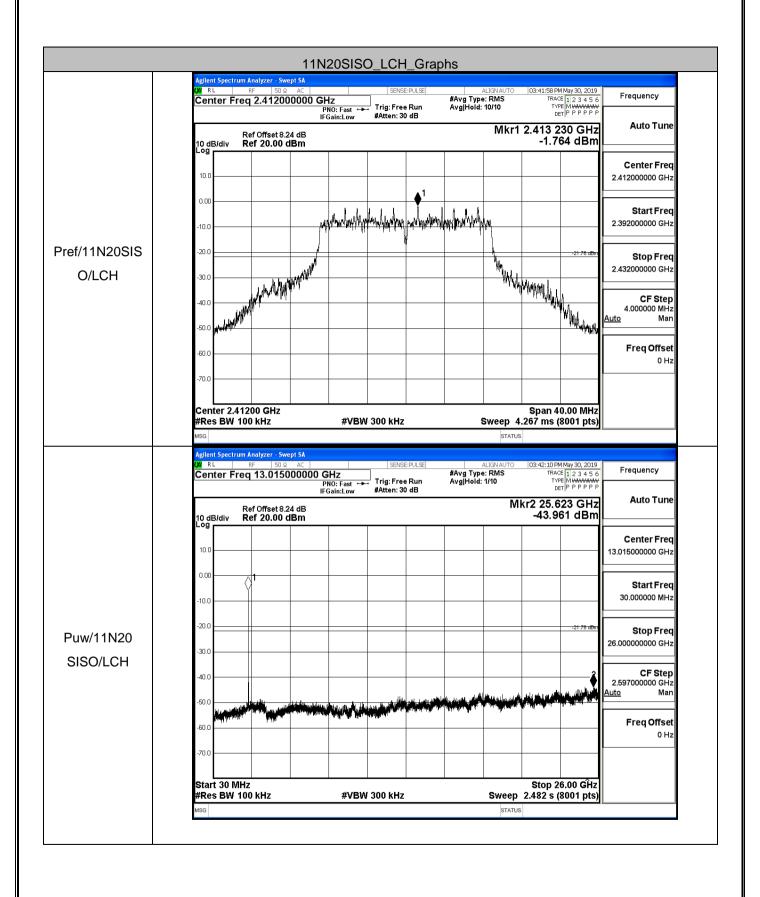


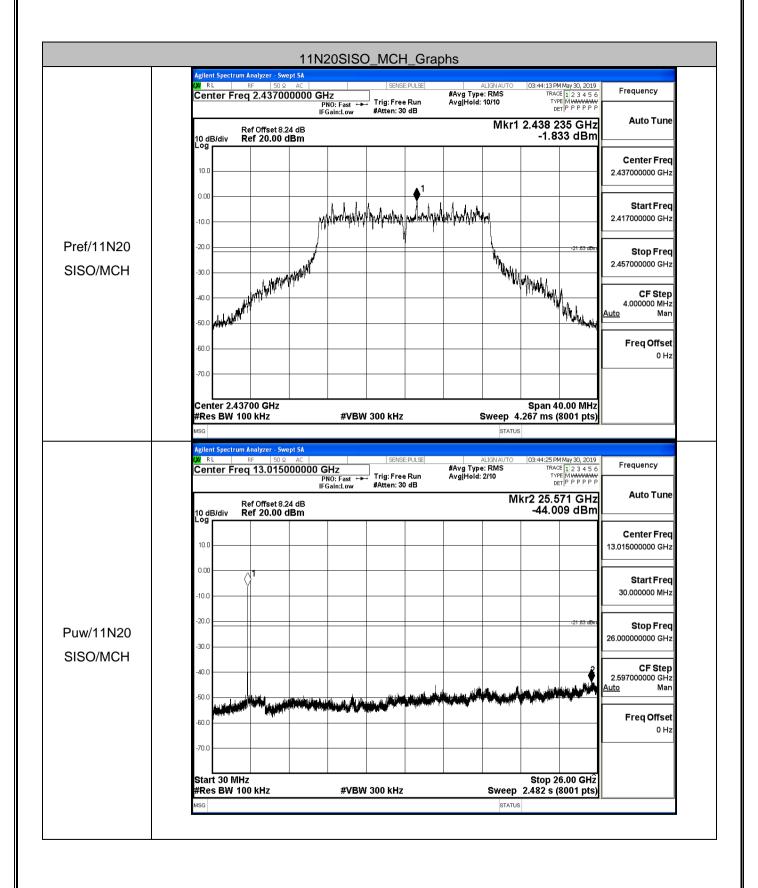


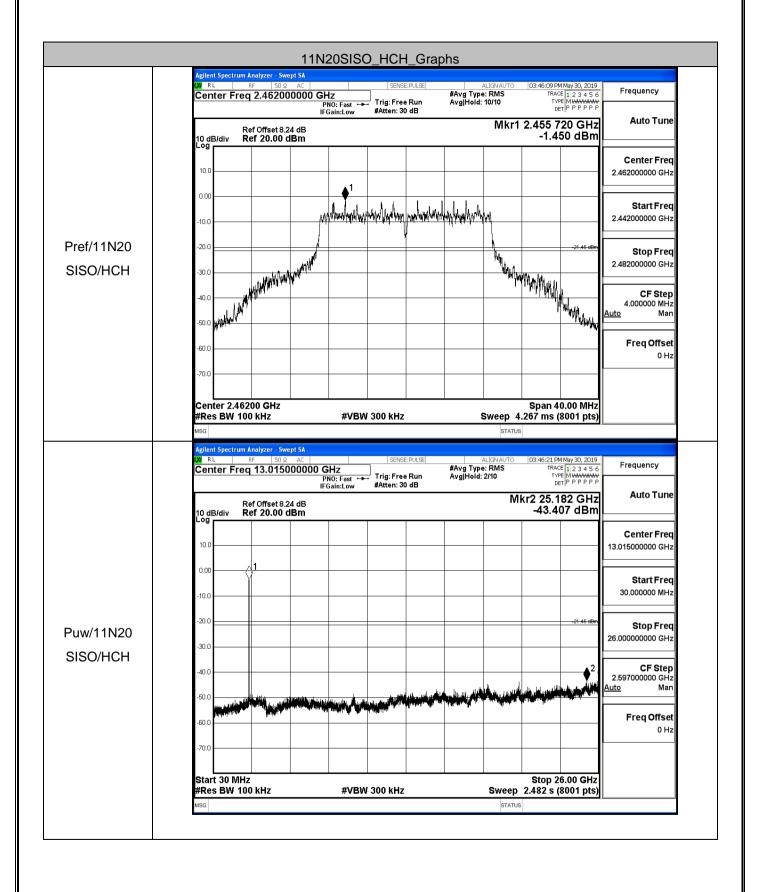






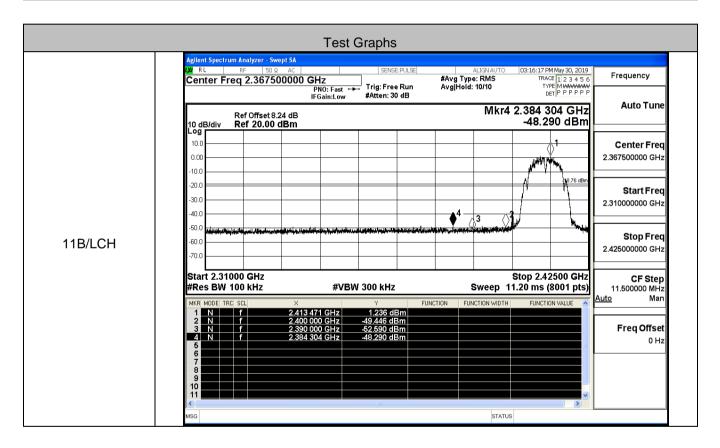


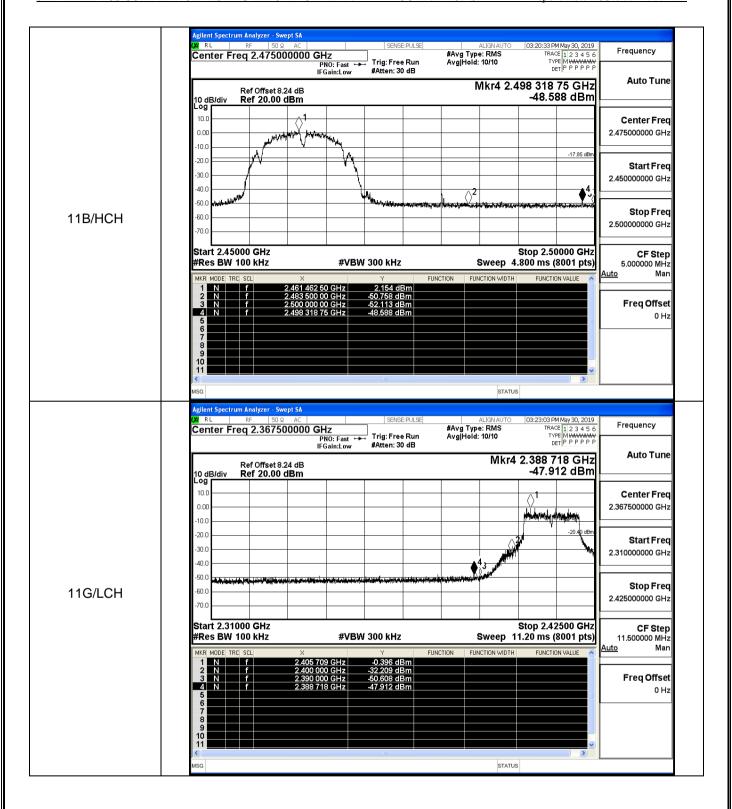


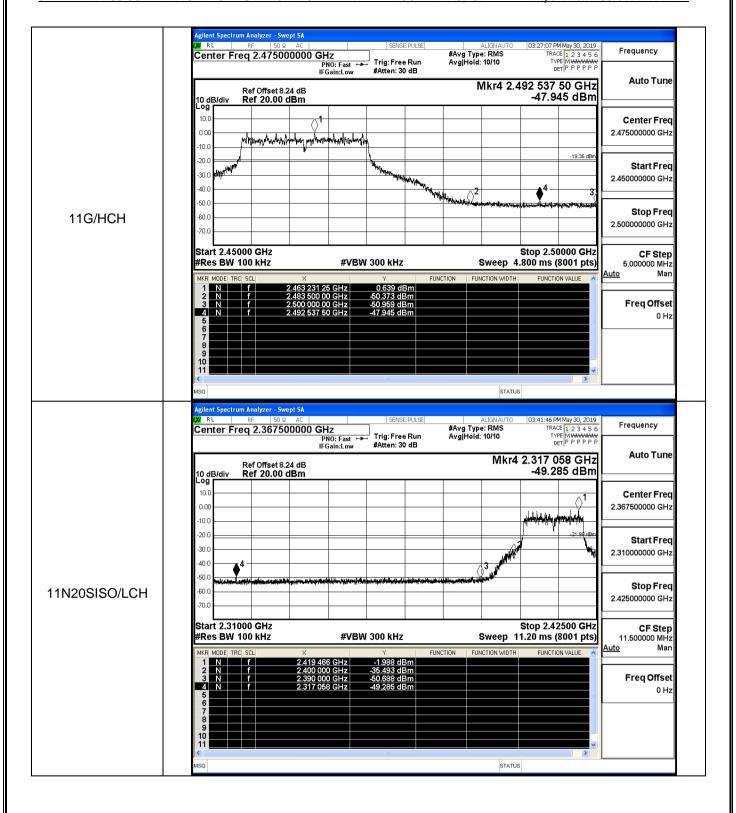


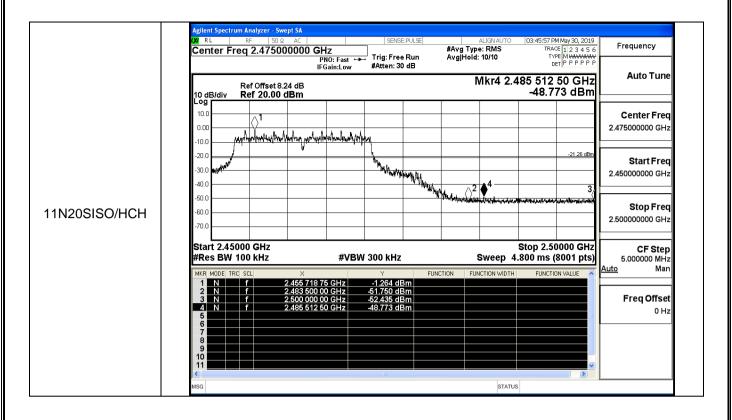
A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
	LCH	1.236	-48.290	-18.76	PASS
11B	HCH	2.154	-48.588	-17.85	PASS
	LCH	-0.396	-47.912	-20.4	PASS
11G	HCH	0.639	-47.945	-19.36	PASS
	LCH	-1.988	-49.285	-21.99	PASS
11N20SISO	HCH	-1.264	-48.773	-21.26	PASS



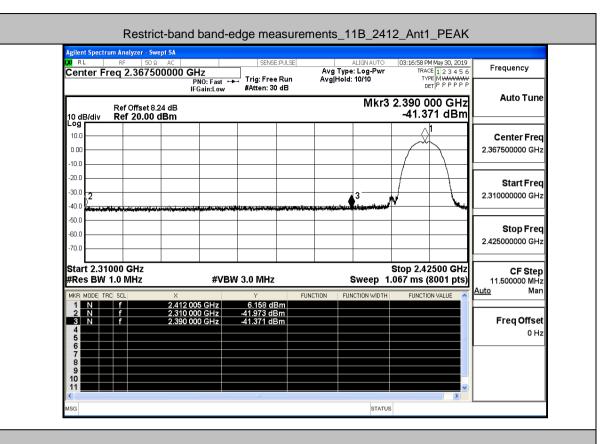


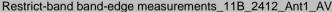


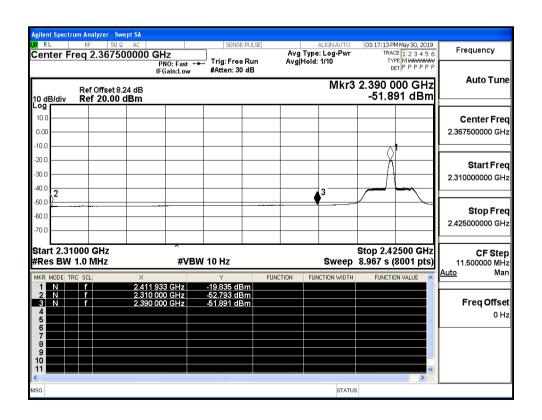


A.7 Restrict-band band-edge measurements

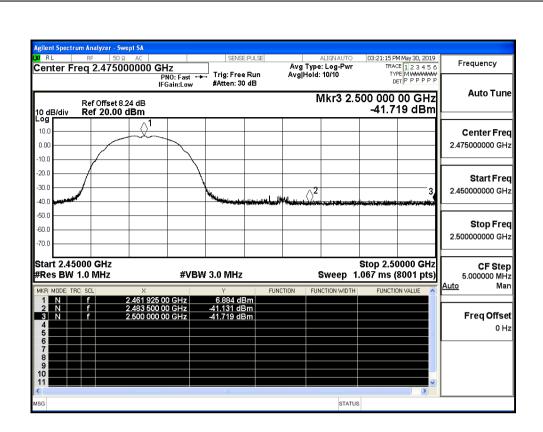
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
	2412	Ant1	2310.0	-41.97	2.0	0	53.28	PEAK	74	PASS
	2412	Ant1	2310.0	-52.79	2.0	0	42.46	AV	54	PASS
	2412	Ant1	2390.0	-41.37	2.0	0	53.89	PEAK	74	PASS
445	2412	Ant1	2390.0	-51.89	2.0	0	43.37	AV	54	PASS
11B	2462	Ant1	2483.5	-41.13	2.0	0	54.13	PEAK	74	PASS
	2462	Ant1	2483.5	-51.80	2.0	0	43.46	AV	54	PASS
	2462	Ant1	2500.0	-41.72	2.0	0	53.54	PEAK	74	PASS
	2462	Ant1	2500.0	-51.85	2.0	0	43.41	AV	54	PASS
	2412	Ant1	2310.0	-42.42	2.0	0	52.84	PEAK	74	PASS
	2412	Ant1	2310.0	-52.83	2.0	0	42.42	AV	54	PASS
	2412	Ant1	2390.0	-39.17	2.0	0	56.09	PEAK	74	PASS
	2412	Ant1	2390.0	-50.46	2.0	0	44.80	AV	54	PASS
11G	2462	Ant1	2483.5	-39.39	2.0	0	55.86	PEAK	74	PASS
	2462	Ant1	2483.5	-50.23	2.0	0	45.03	AV	54	PASS
	2462	Ant1	2500.0	-40.69	2.0	0	54.57	PEAK	74	PASS
	2462	Ant1	2500.0	-51.75	2.0	0	43.51	AV	54	PASS
	2412	Ant1	2310.0	-41.72	2.0	0	53.53	PEAK	74	PASS
	2412	Ant1	2310.0	-53.20	2.0	0	42.06	AV	54	PASS
	2412	Ant1	2390.0	-41.00	2.0	0	54.25	PEAK	74	PASS
	2412	Ant1	2390.0	-51.87	2.0	0	43.39	AV	54	PASS
11N20 SISO	2462	Ant1	2483.5	-41.35	2.0	0	53.90	PEAK	74	PASS
3130	2462	Ant1	2483.5	-51.69	2.0	0	43.57	AV	54	PASS
	2462	Ant1	2500.0	-40.62	2.0	0	54.64	PEAK	74	PASS
	2462	Ant1	2500.0	-52.34	2.0	0	42.92	AV	54	PASS
	2422	Ant1	2390.0	-41.84	2.0	0	53.42	PEAK	74	PASS



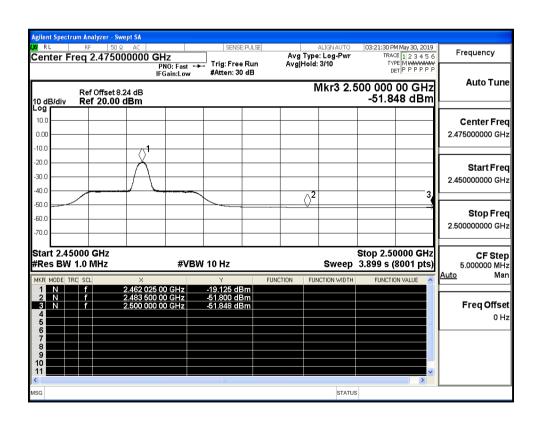




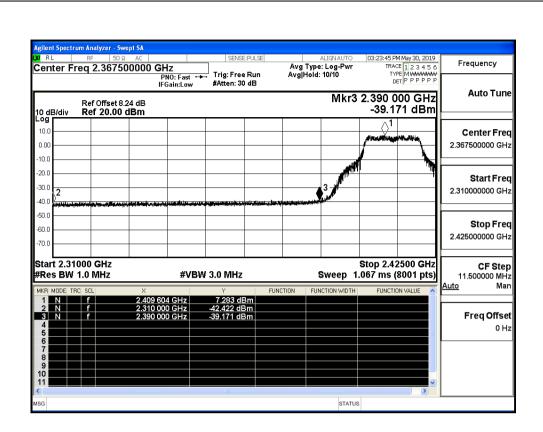
Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



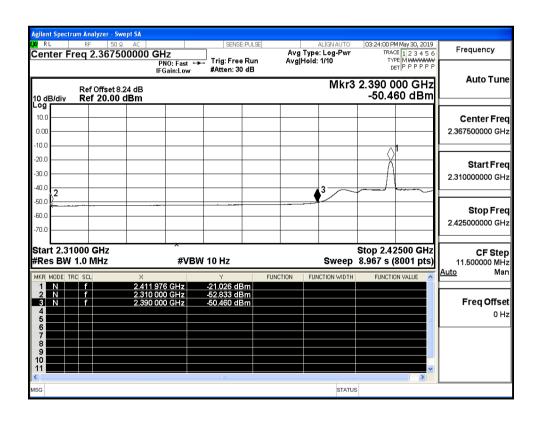
Restrict-band band-edge measurements_11B_2462_Ant1_AV



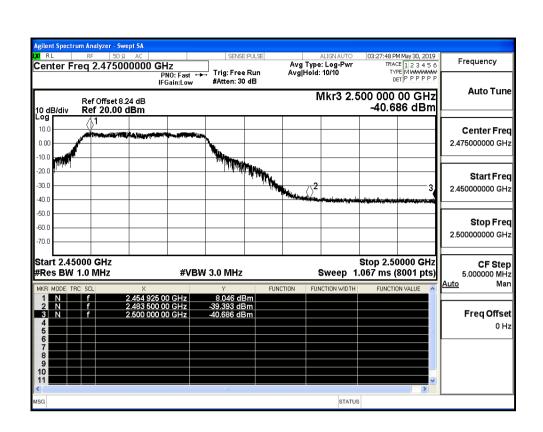
Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



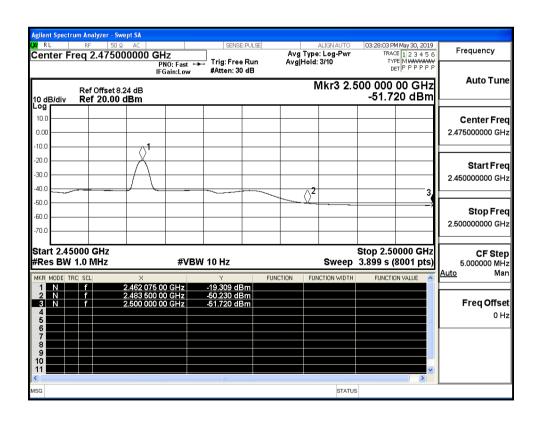
Restrict-band band-edge measurements_11G_2412_Ant1_AV



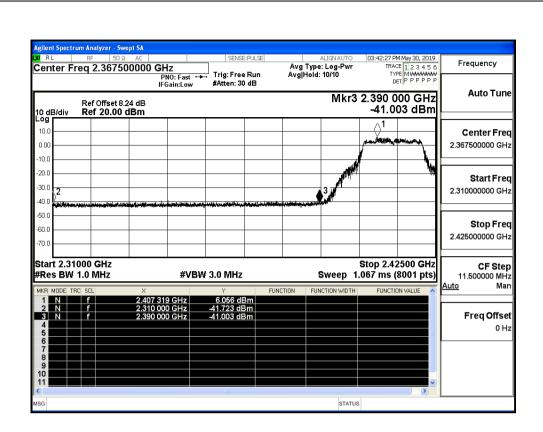
Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



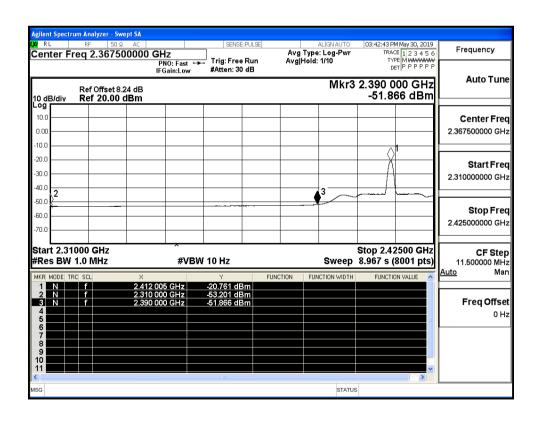
Restrict-band band-edge measurements_11G_2462_Ant1_AV



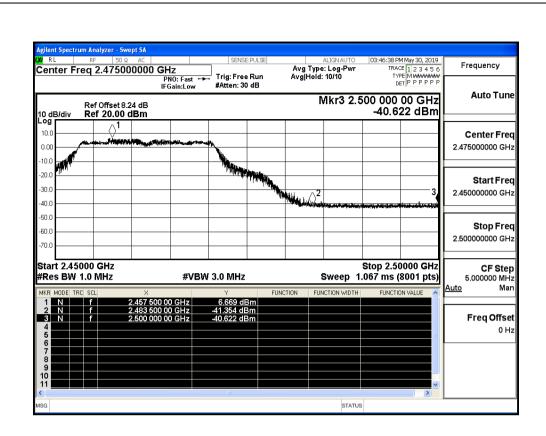
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



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

