Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

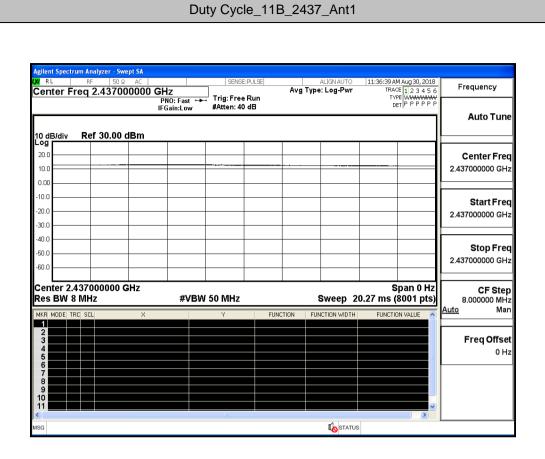
Product Name: Smart In Wall Outlet
Trade Mark: Xenon/Jinvoo
Test Model: SM-PW801U

Environmental Conditions

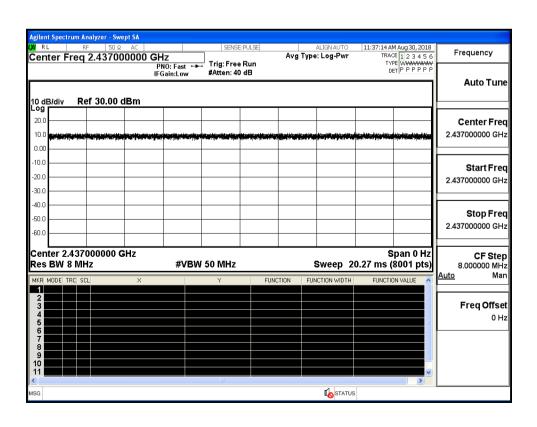
Temperature:	23.5 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond.Lu
Supervised by:	Jayden.Zhuo

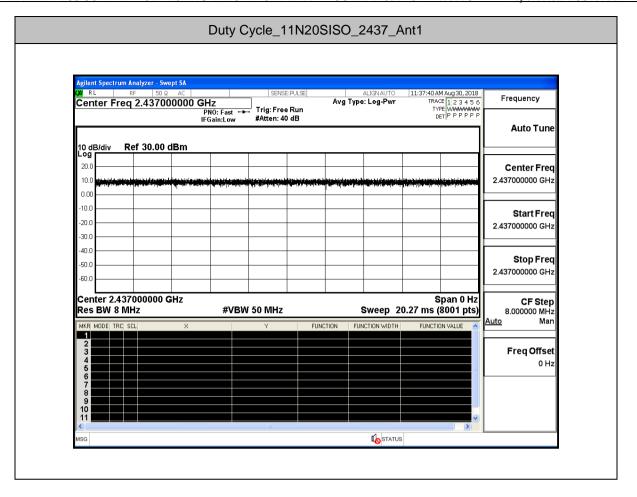
A.1 Duty Cycle

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







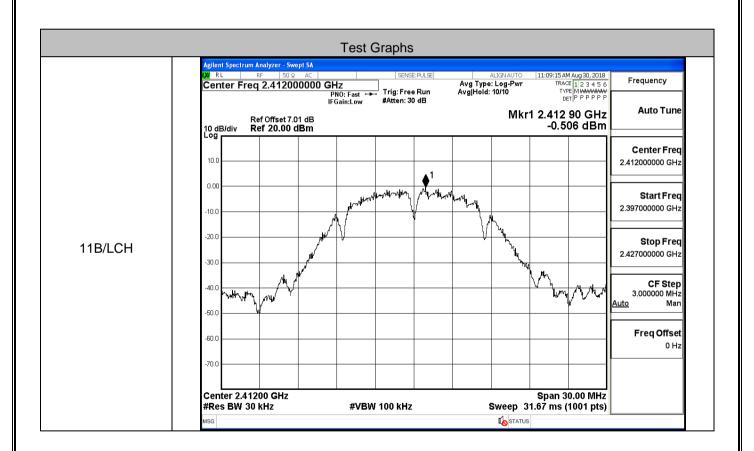


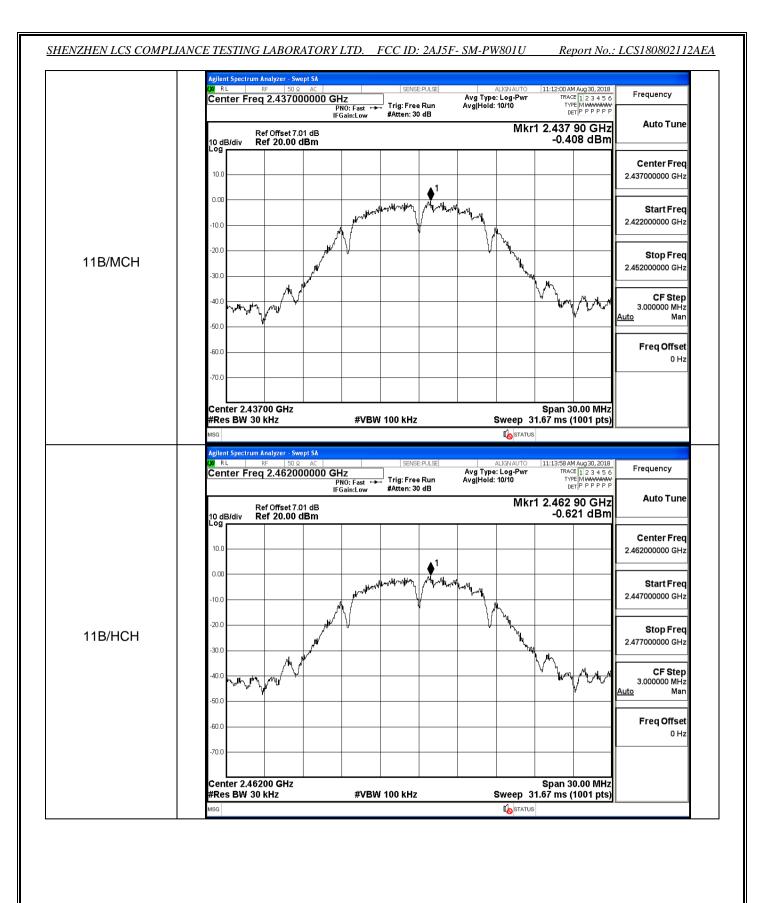
A.2 Maximum Conducted Output Power

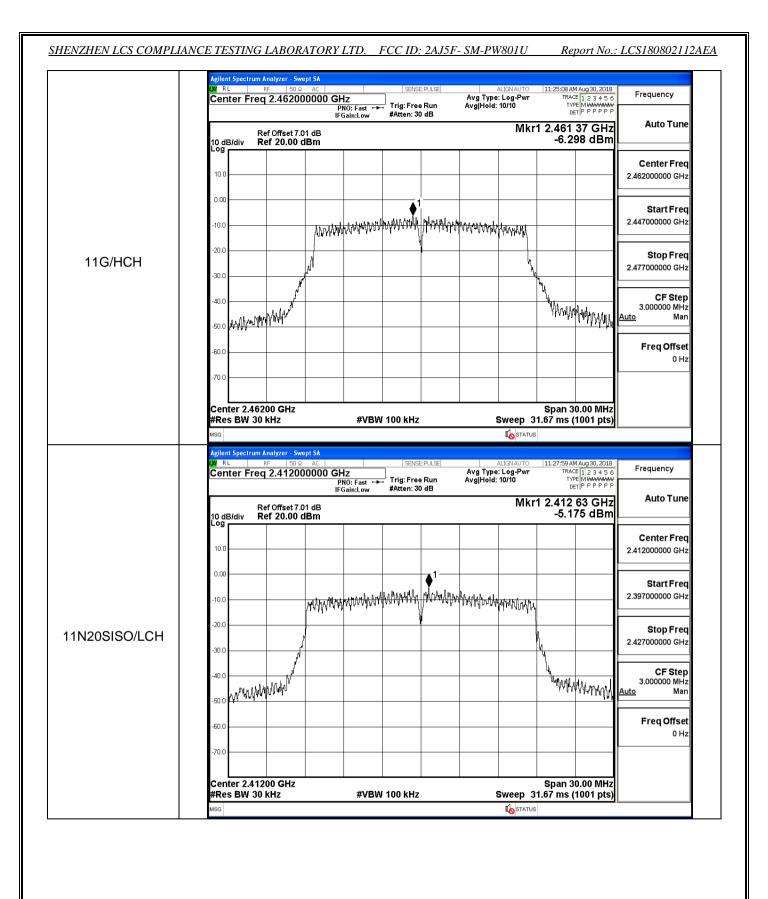
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
	LCH	17.50	30	PASS
11B	MCH	17.63	30	PASS
	HCH	17.46	30	PASS
	LCH	17.70	30	PASS
11G	MCH	17.52	30	PASS
	НСН	17.40	30	PASS
11N20SISO	LCH	17.80	30	PASS
	MCH	17.36	30	PASS
	НСН	17.75	30	PASS

A.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
	LCH	-0.506	8	PASS
11B	MCH	-0.408	8	PASS
	HCH	-0.621	8	PASS
	LCH	-6.028	8	PASS
11G	MCH	-6.287	8	PASS
	HCH	-6.298	8	PASS
	LCH	-5.175	8	PASS
11N20SISO	N20SISO MCH -4.705		8	PASS
	HCH	-5.535	8	PASS

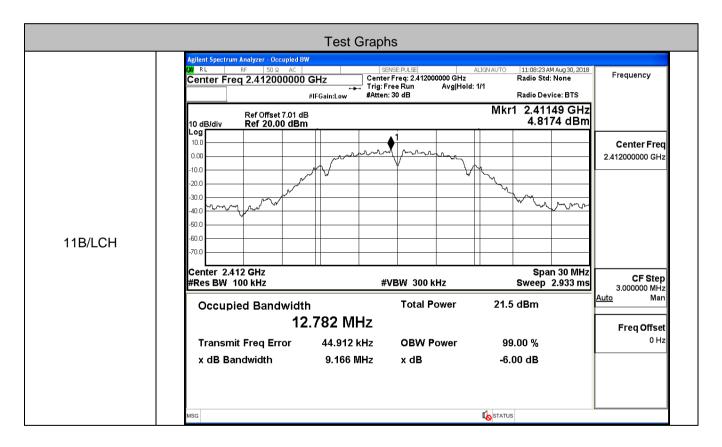






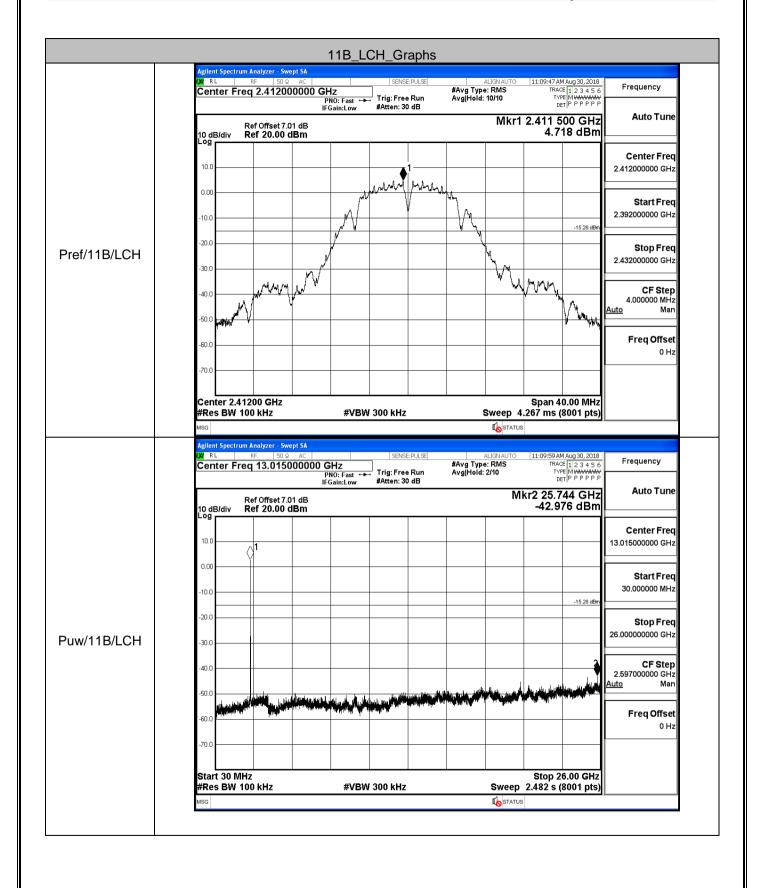
A.4 6dB Bandwidth

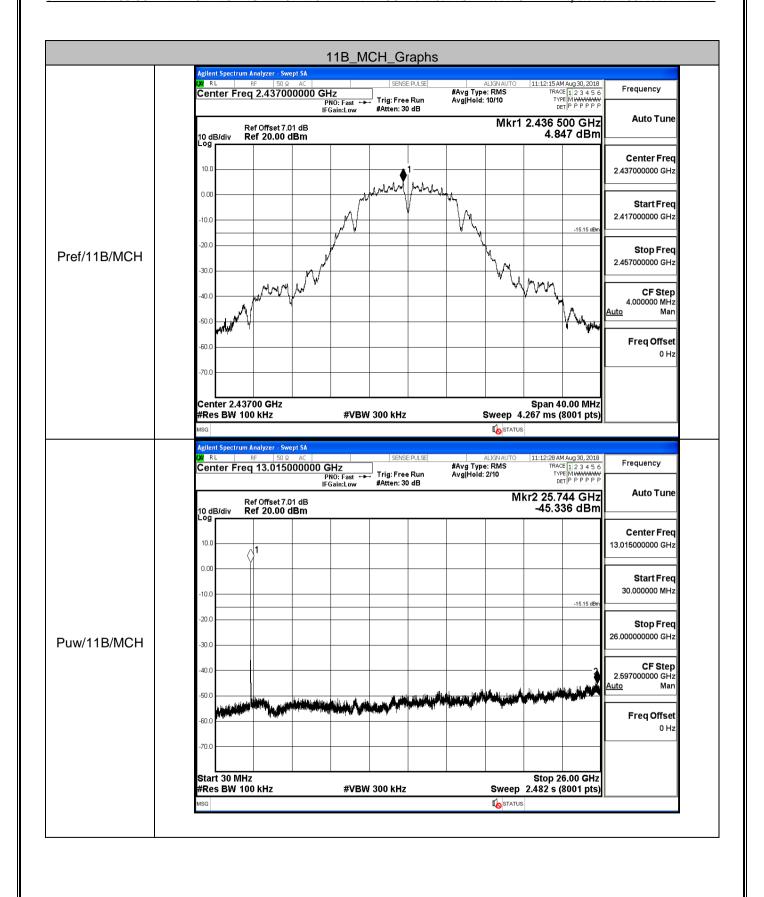
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	9.166	≥0.5	PASS
11B	MCH	9.167	≥0.5	PASS
	HCH	9.167	≥0.5	PASS
	LCH	16.41	≥0.5	PASS
11G	MCH	16.41	≥0.5	PASS
	НСН	16.41	≥0.5	PASS
	LCH	17.62	≥0.5	PASS
11N20SISO	MCH	17.61	≥0.5	PASS
	HCH	17.62	≥0.5	PASS

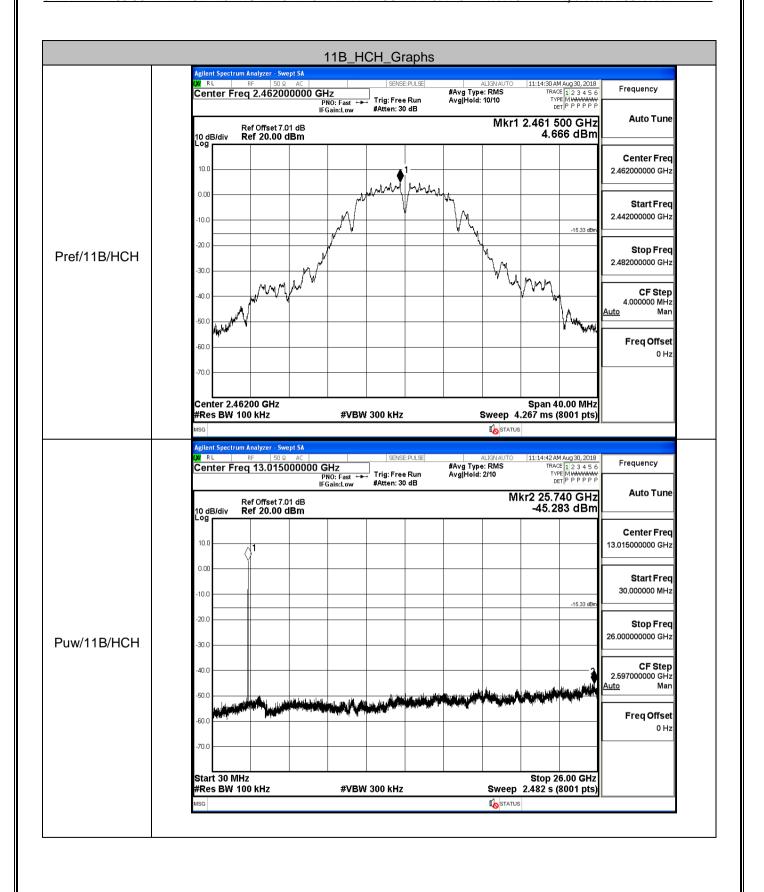


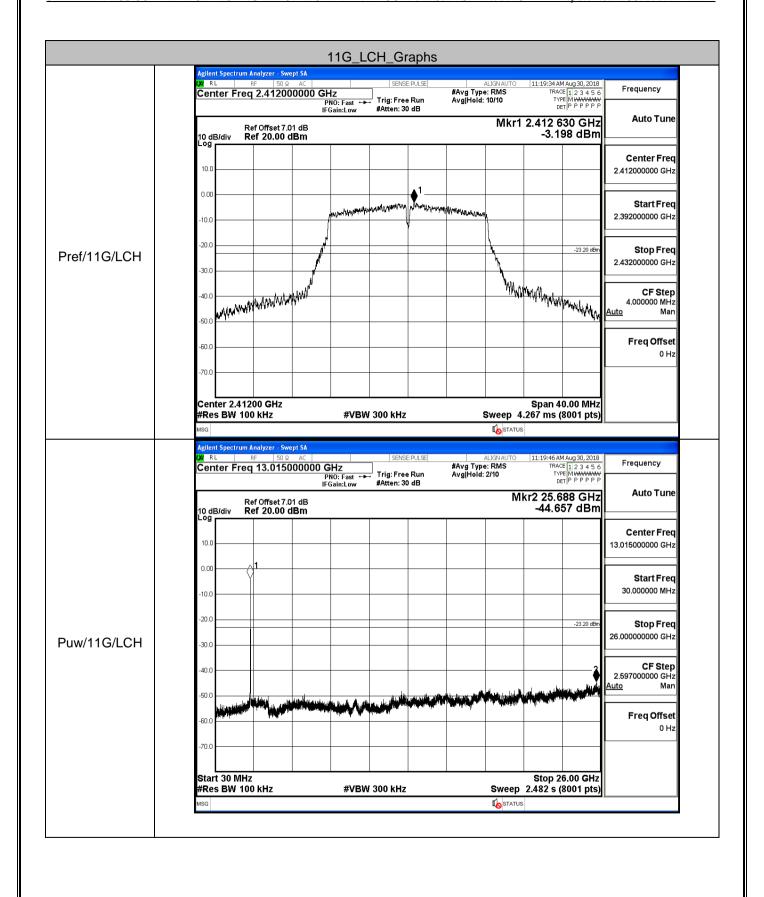
A.5 RF Conducted Spurious Emissions

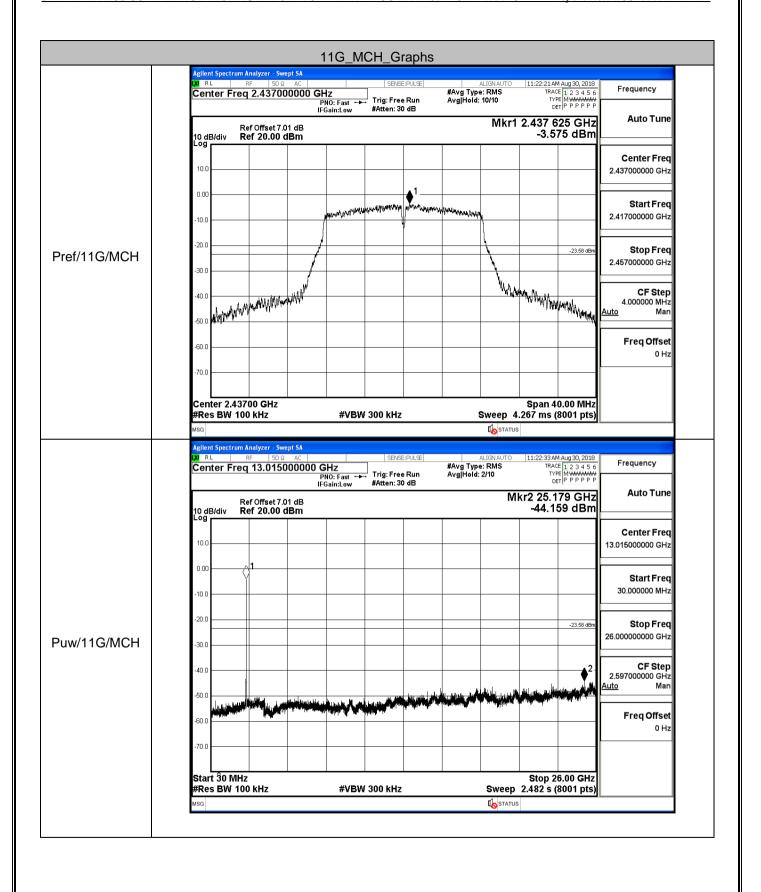
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	4.718	-42.976	-15.282	PASS
11B	MCH	4.847	-45.336	-15.153	PASS
	HCH	4.666	-45.283	-15.334	PASS
	LCH	-3.198	-44.657	-23.198	PASS
11G	MCH	-3.575	-44.159	-23.575	PASS
	HCH	-3.805	-44.659	-23.805	PASS
	LCH	-3.177	-44.335	-23.177	PASS
11N20	MCH	-2.765	-44.399	-22.765	PASS
SISO	HCH	-2.945	-45.147	-22.945	PASS

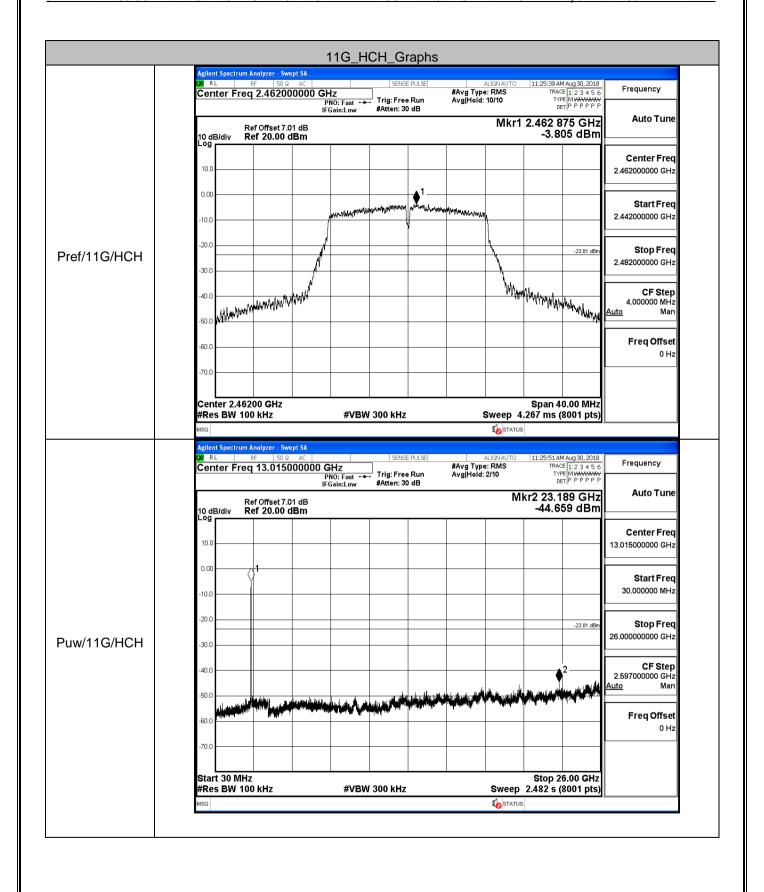


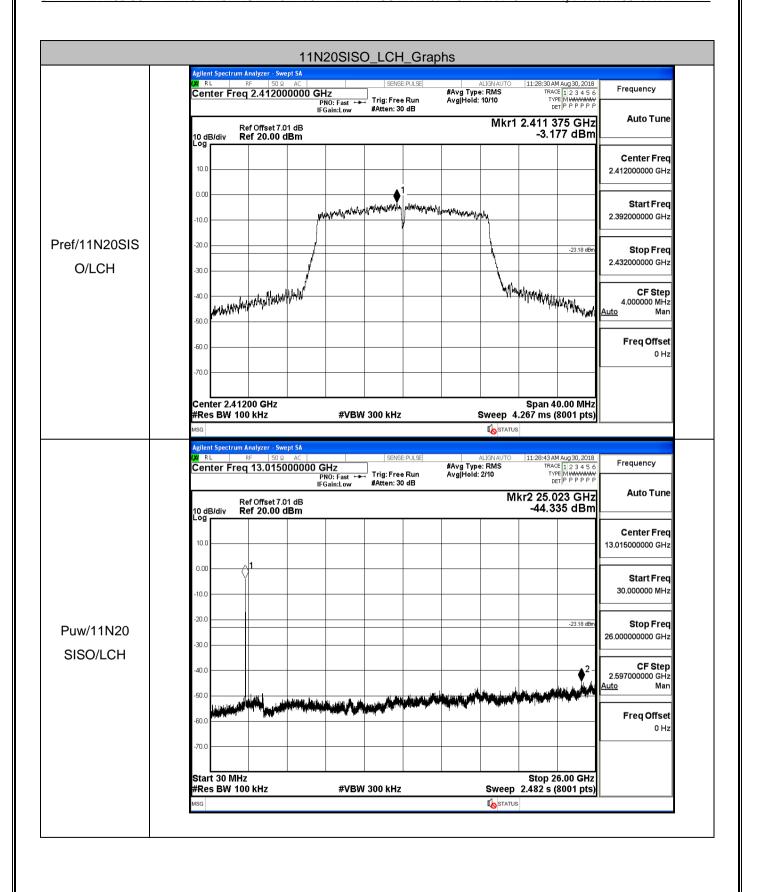


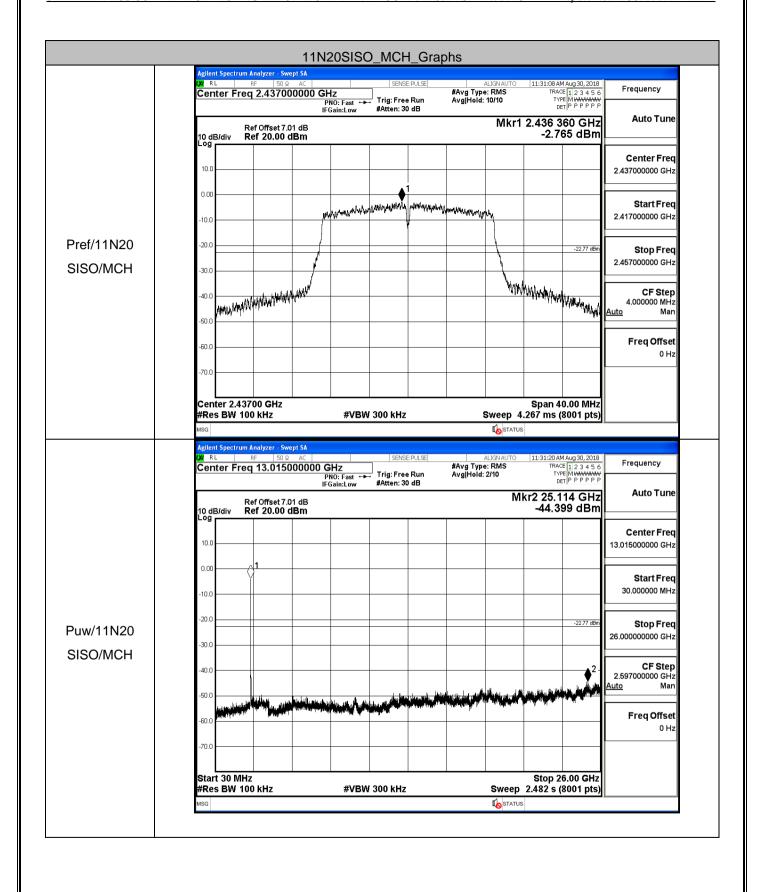


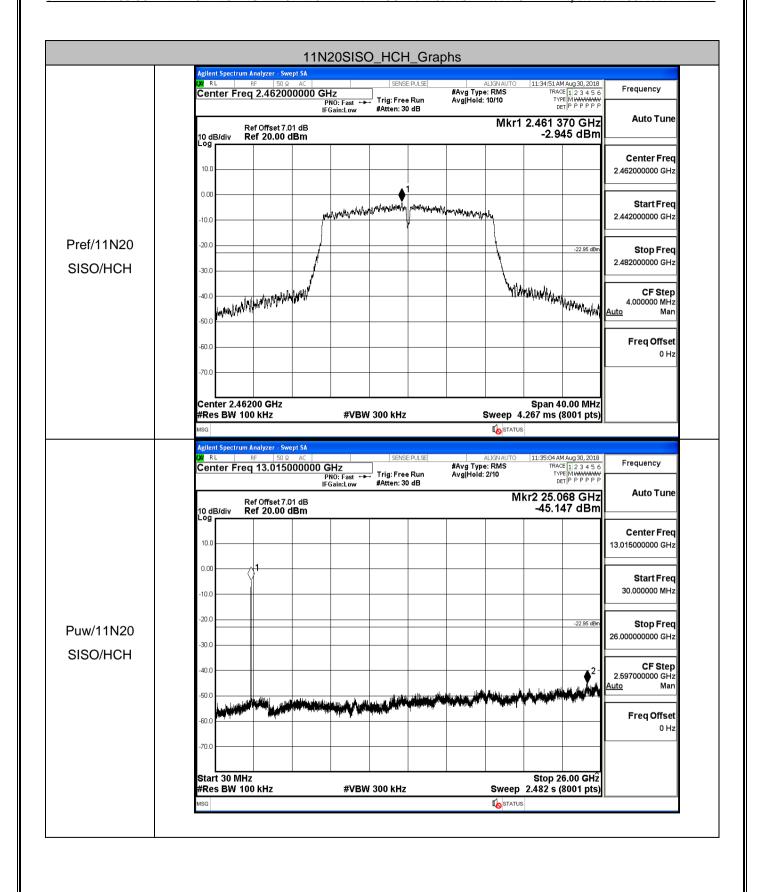






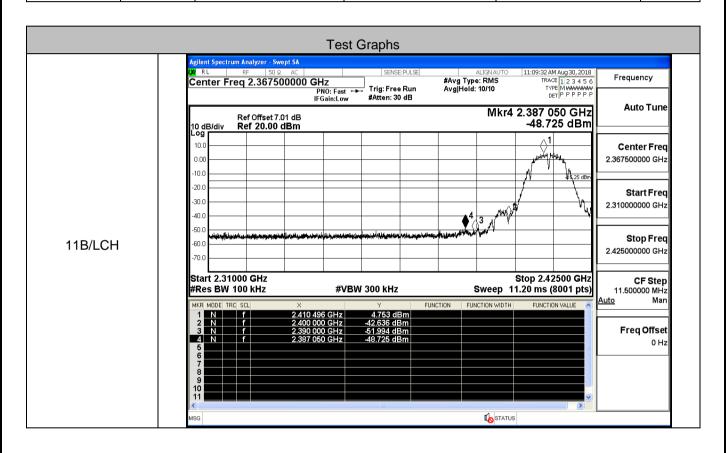


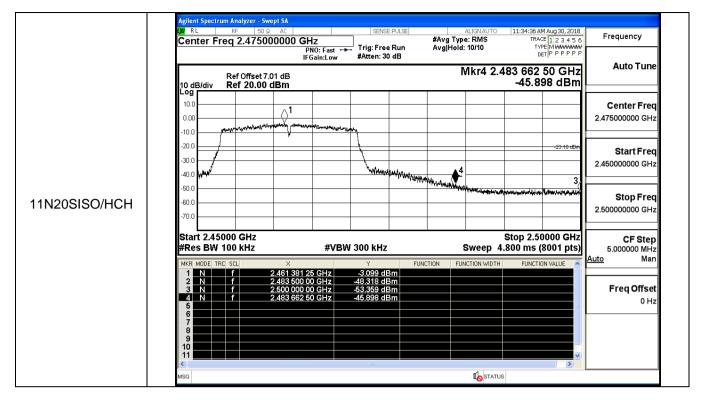




A.6 Band-edge for RF Conducted Emissions

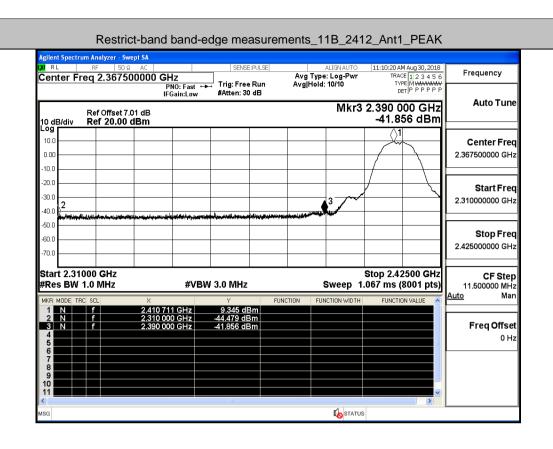
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level	Limit [dBm]	Verdict
445	LCH	4.753	-48.725	-15.25	PASS
11B	HCH	4.731	-50.551	-15.27	PASS
11G	LCH	-3.186	-47.584	-23.19	PASS
	HCH	-3.570	-47.975	-23.57	PASS
11N20SISO	LCH	-3.374	-46.313	-23.37	PASS
	HCH	-3.099	-45.898	-23.1	PASS

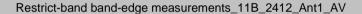


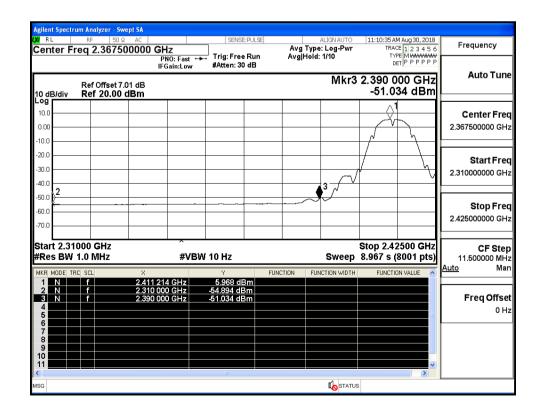


A.7 Restrict-band band-edge measurements

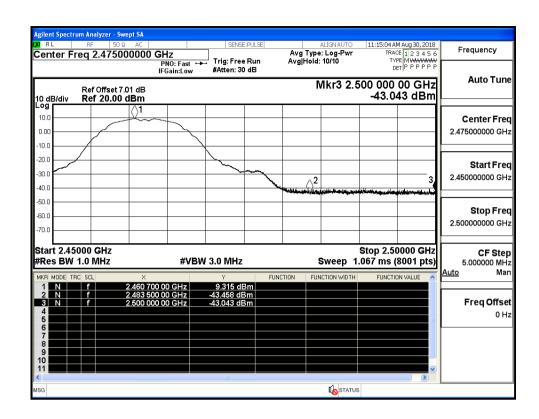
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
	2412	Ant1	2310.0	-44.479	2.50	0	53.249	PEAK	74	PASS
	2412	Ant1	2310.0	-54.894	2.50	0	42.834	AV	54	PASS
	2412	Ant1	2390.0	-41.856	2.50	0	55.872	PEAK	74	PASS
445	2412	Ant1	2390.0	-51.034	2.50	0	46.694	AV	54	PASS
11B	2462	Ant1	2483.5	-43.458	2.50	0	54.270	PEAK	74	PASS
	2462	Ant1	2483.5	-53.256	2.50	0	44.472	AV	54	PASS
	2462	Ant1	2500.0	-43.043	2.50	0	54.685	PEAK	74	PASS
	2462	Ant1	2500.0	-53.837	2.50	0	43.891	AV	54	PASS
	2412	Ant1	2310.0	-44.337	2.50	0	53.391	PEAK	74	PASS
	2412	Ant1	2310.0	-54.836	2.50	0	42.892	AV	54	PASS
	2412	Ant1	2390.0	-37.578	2.50	0	60.150	PEAK	74	PASS
110	2412	Ant1	2390.0	-50.746	2.50	0	46.982	AV	54	PASS
11G	2462	Ant1	2483.5	-39.074	2.50	0	58.654	PEAK	74	PASS
	2462	Ant1	2483.5	-51.201	2.50	0	46.527	AV	54	PASS
	2462	Ant1	2500.0	-41.575	2.50	0	56.153	PEAK	74	PASS
	2462	Ant1	2500.0	-53.360	2.50	0	44.368	AV	54	PASS
	2412	Ant1	2310.0	-44.546	2.50	0	53.182	PEAK	74	PASS
	2412	Ant1	2310.0	-54.852	2.50	0	42.876	AV	54	PASS
	2412	Ant1	2390.0	-33.810	2.50	0	63.918	PEAK	74	PASS
11N20	2412	Ant1	2390.0	-49.538	2.50	0	48.190	AV	54	PASS
SISO	2462	Ant1	2483.5	-34.665	2.50	0	63.063	PEAK	74	PASS
	2462	Ant1	2483.5	-49.635	2.50	0	48.093	AV	54	PASS
	2462	Ant1	2500.0	-43.462	2.50	0	54.266	PEAK	74	PASS
	2462	Ant1	2500.0	-53.311	2.50	0	44.417	AV	54	PASS



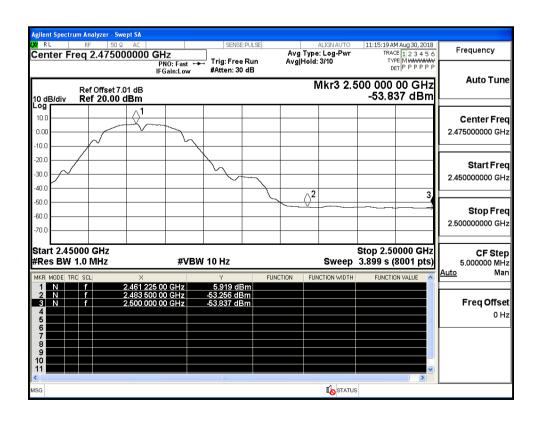


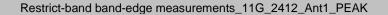


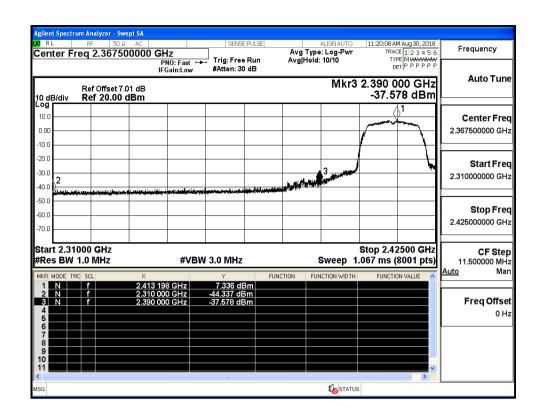
Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



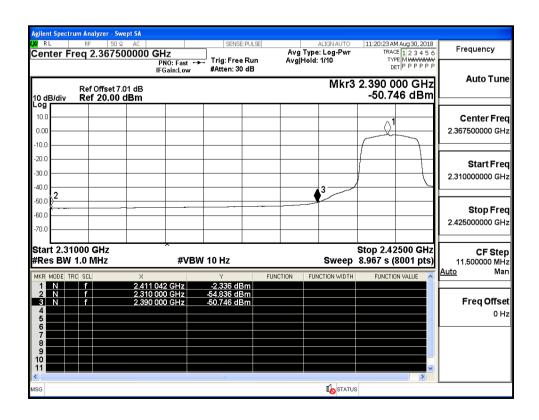
Restrict-band band-edge measurements_11B_2462_Ant1_AV



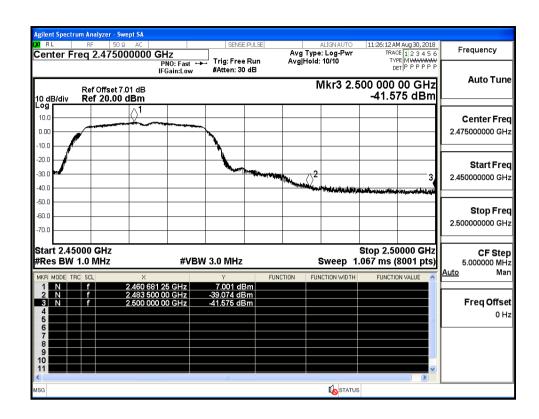




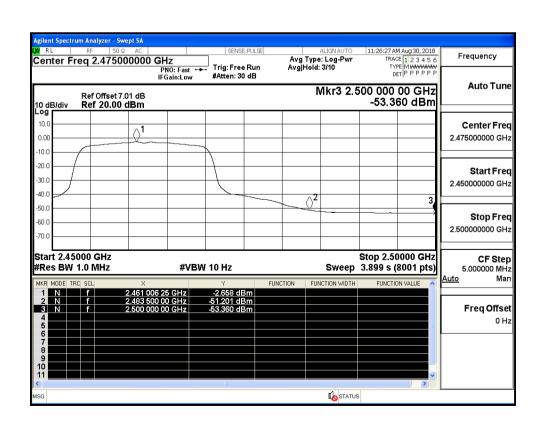
Restrict-band band-edge measurements_11G_2412_Ant1_AV



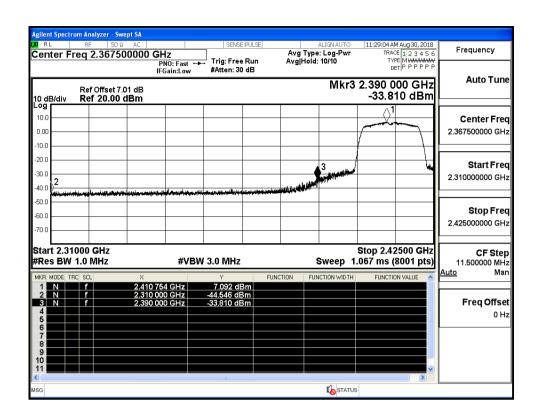
Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



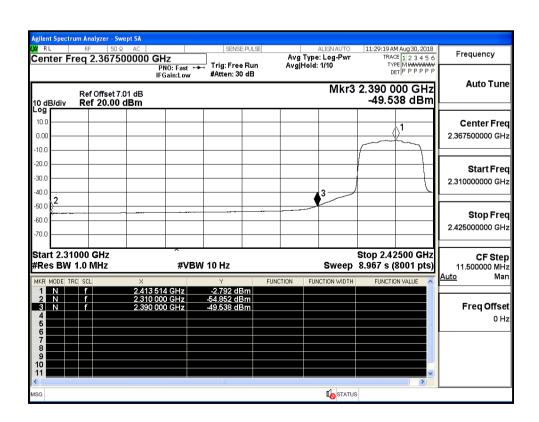
Restrict-band band-edge measurements_11G_2462_Ant1_AV

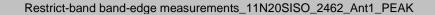


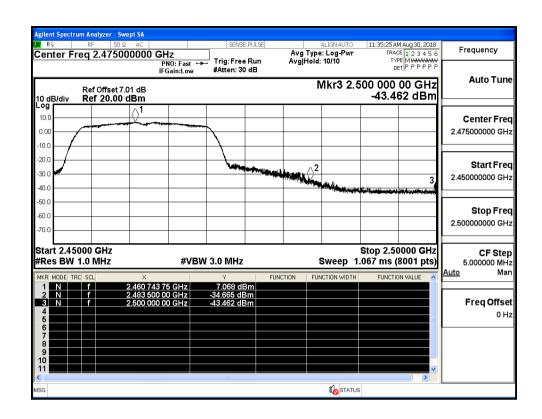
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



Restrict-band band-edge measurements_11N20SISO_2412_Ant1_AV







Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV

