# Appendix A

# **RF Test Data for 2.4G WIFI (Conducted Measurement)**

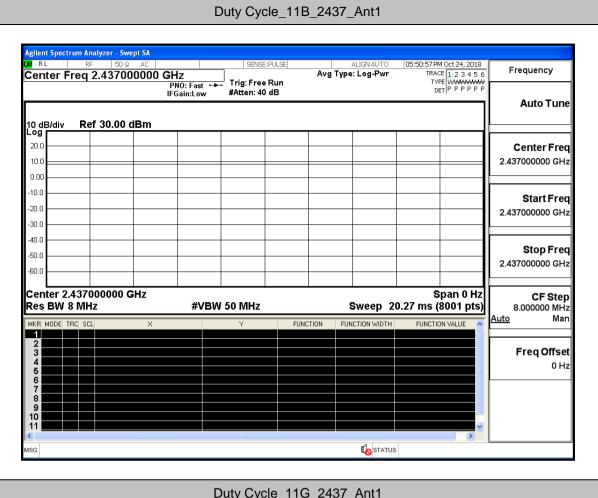
**Product Name: WIFI-Smart Switch** Trade Mark: N/A Test Model: ZJ-W-AD01

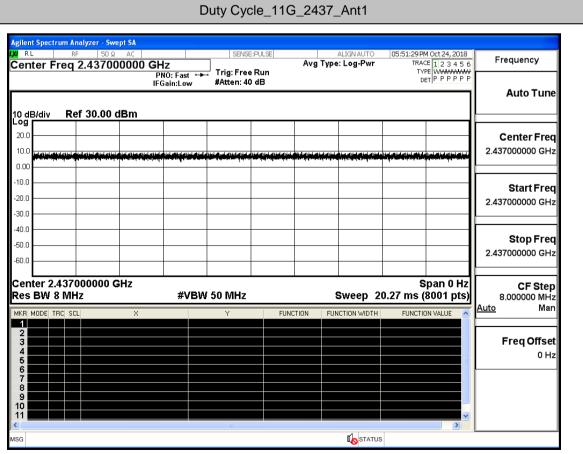
#### **Environmental Conditions**

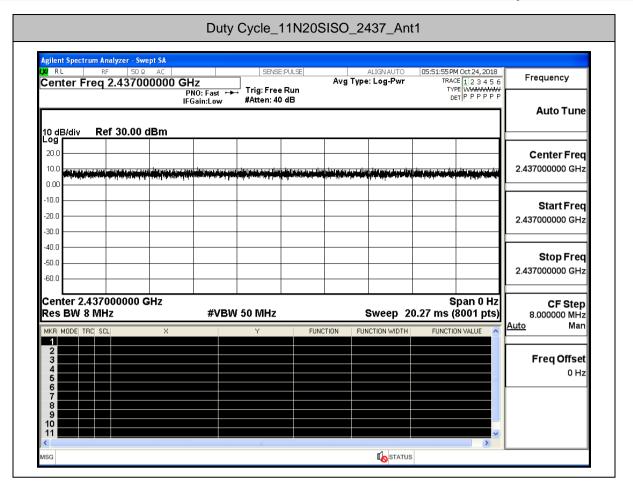
	<del></del> :	
	Temperature:	24.3 ° C
Relative Humidity: ATM Pressure:		52.7%
		100.0 kPa
	Test Engineer:	Mina.Xu
	Supervised by:	Jayden.Zhuo

## 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





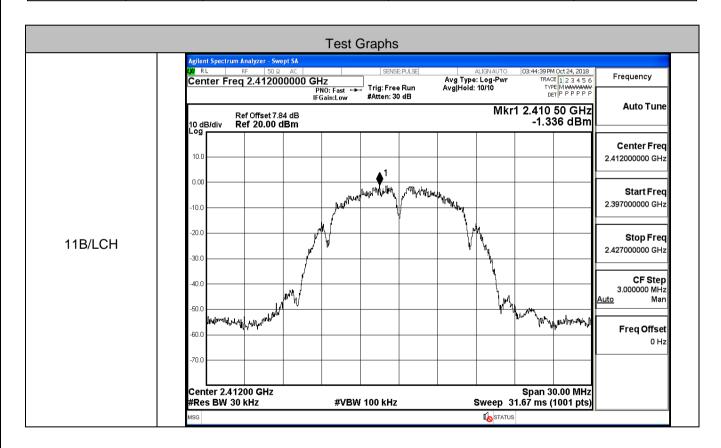


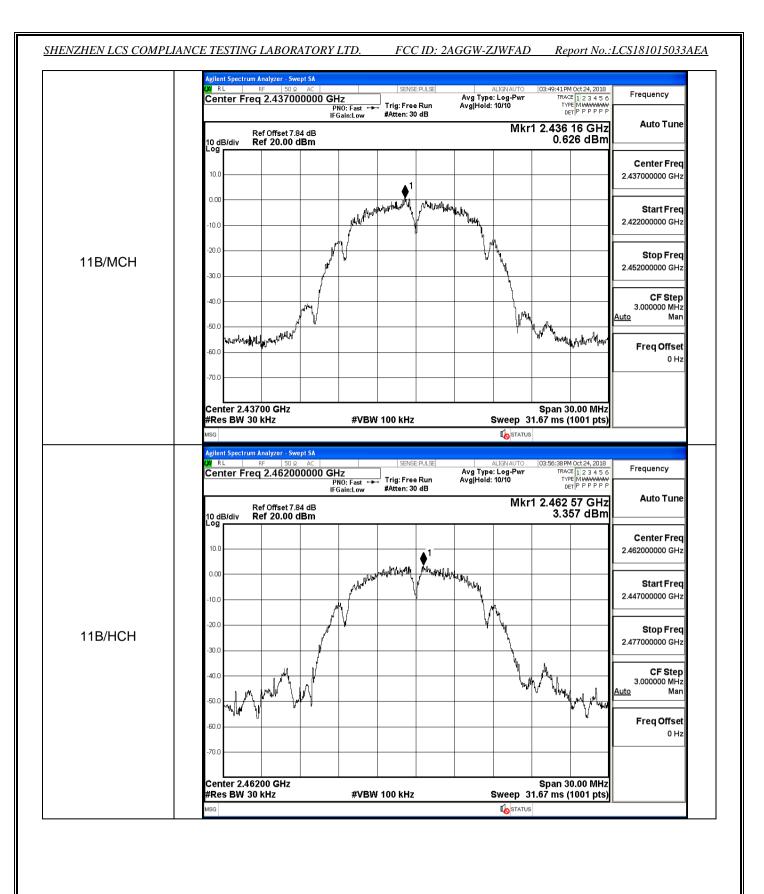
## **A.2 Maximum Conducted Output Power**

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
	LCH	14.42	30	PASS
11B	MCH	15.65	30	PASS
	HCH	15.84	30	PASS
	LCH	15.38	30	PASS
11G	MCH	15.36	30	PASS
	НСН	16.04	30	PASS
	LCH	14.76	30	PASS
11N20SISO	MCH	14.87	30	PASS
	HCH	15.21	30	PASS

### A.3 Maximum Power Spectral Density

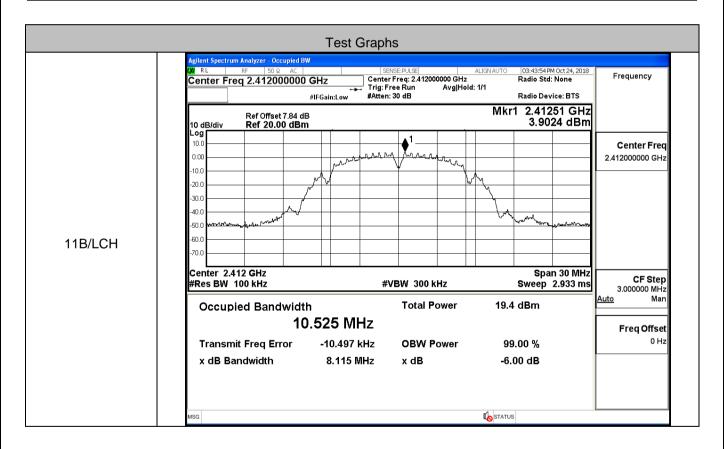
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
	LCH	-1.336	8	PASS
11B	MCH	0.626	8	PASS
	HCH	3.357	8	PASS
	LCH	-4.027	8	PASS
11G	MCH	-3.859	8	PASS
	HCH	-8.399	8	PASS
	LCH	-8.099	8	PASS
11N20SISO	MCH	-7.977	8	PASS
	HCH	-7.712	8	PASS





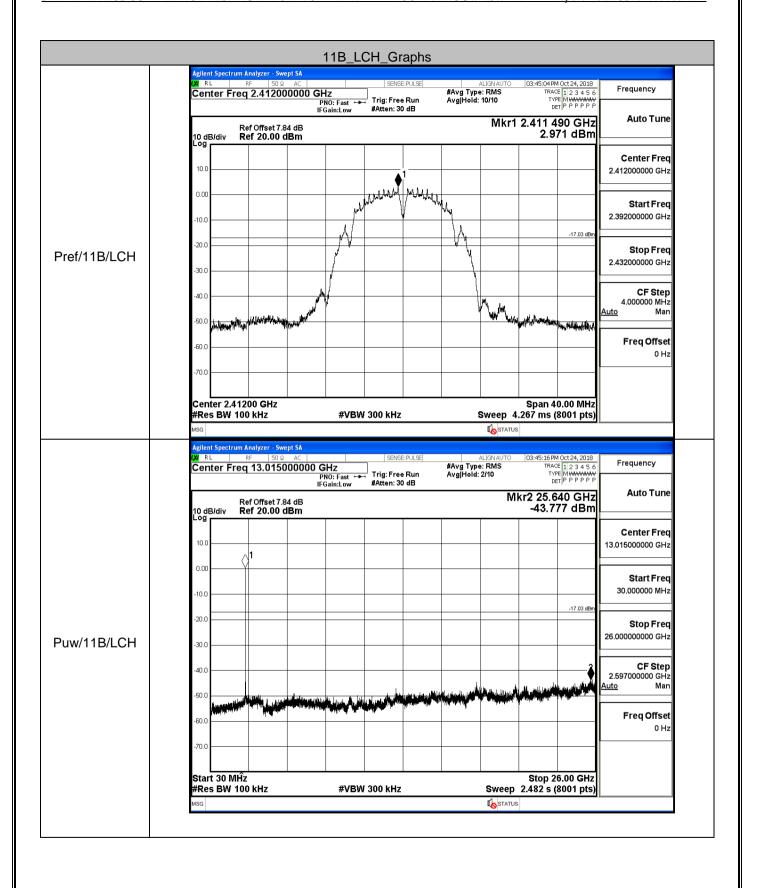
#### A.4 6dB Bandwidth

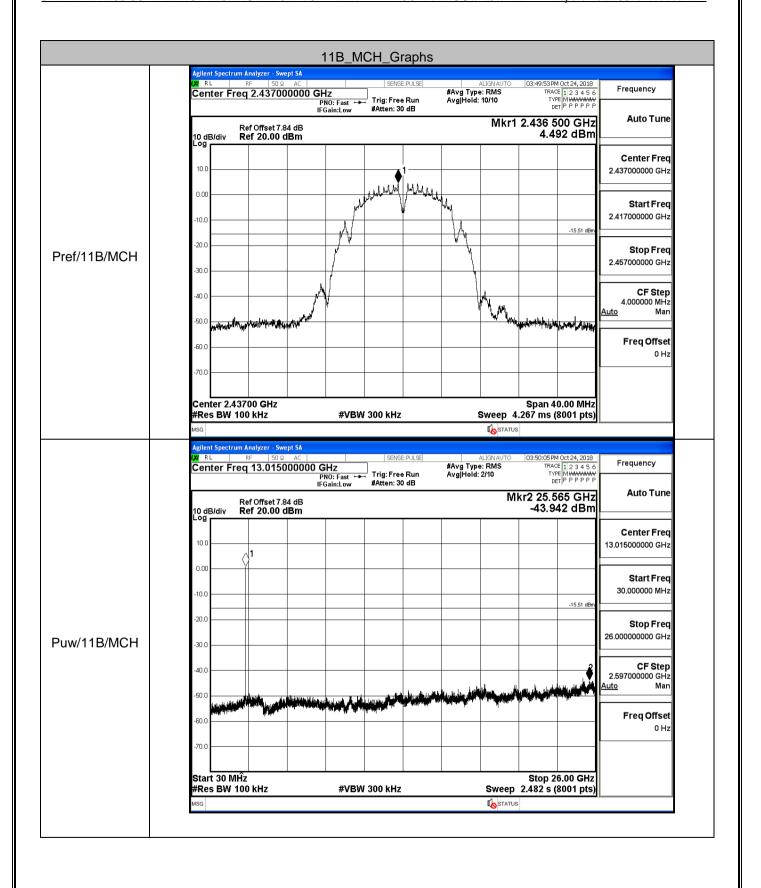
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	8.115	≥0.5	PASS
11B	MCH	8.102	≥0.5	PASS
	HCH	8.108	≥0.5	PASS
	LCH	16.35	≥0.5	PASS
11G	MCH	16.35	≥0.5	PASS
	HCH	16.36	≥0.5	PASS
	LCH	17.32	≥0.5	PASS
11N20SISO	MCH	17.32	≥0.5	PASS
	HCH	17.32	≥0.5	PASS

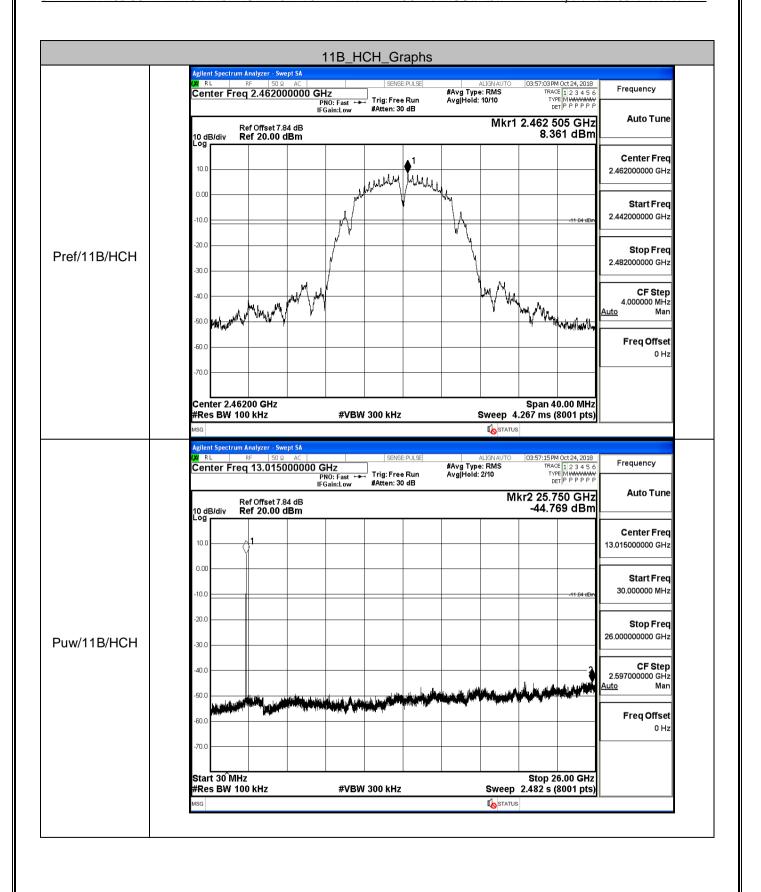


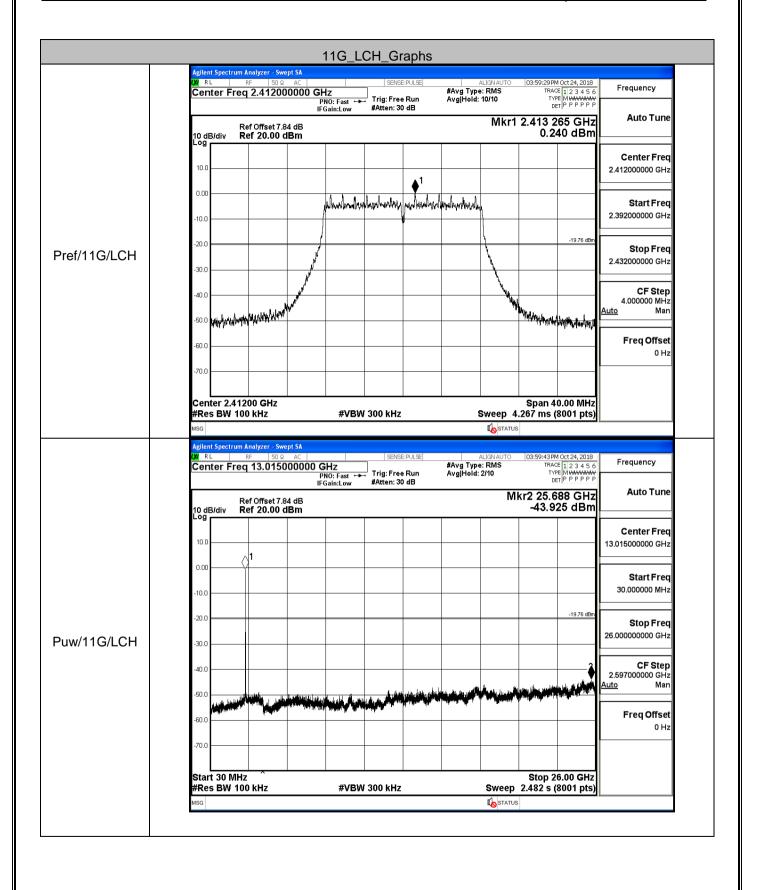
## A.5 RF Conducted Spurious Emissions

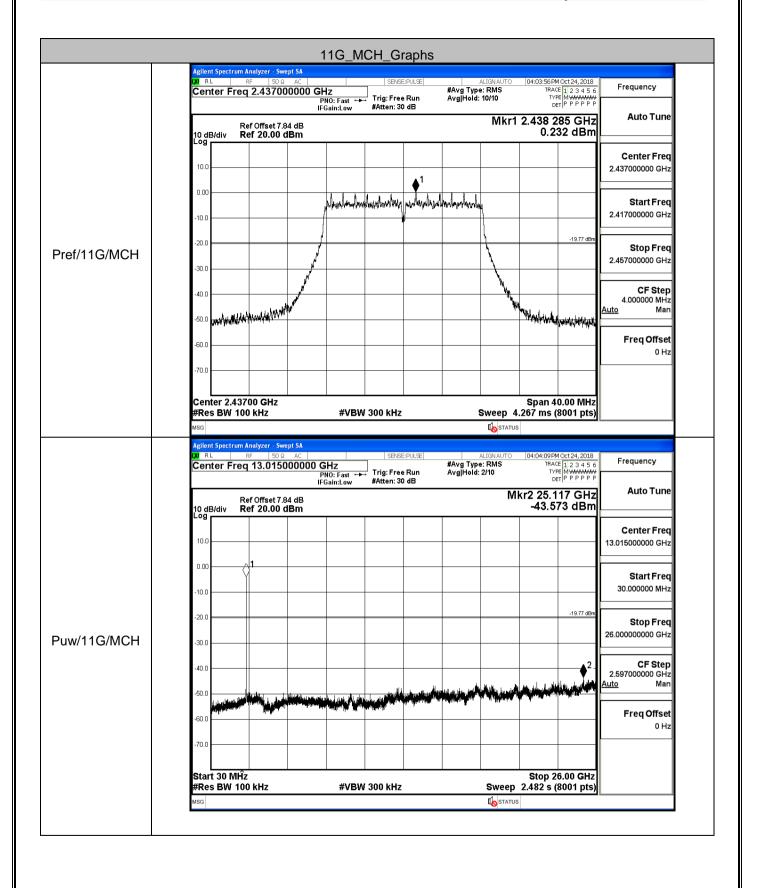
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	2.971	-43.777	-17.029	PASS
11B	MCH	4.492	-43.942	-15.508	PASS
	HCH	8.361	-44.769	-11.639	PASS
	LCH	0.24	-43.925	-19.760	PASS
11G	MCH	0.232	-43.573	-19.768	PASS
	HCH	0.882	-43.884	-19.118	PASS
	LCH	-3.468	-43.971	-23.468	PASS
11N20SISO	MCH	-3.385	-44.536	-23.385	PASS
	HCH	-3.09	-42.020	-23.090	PASS

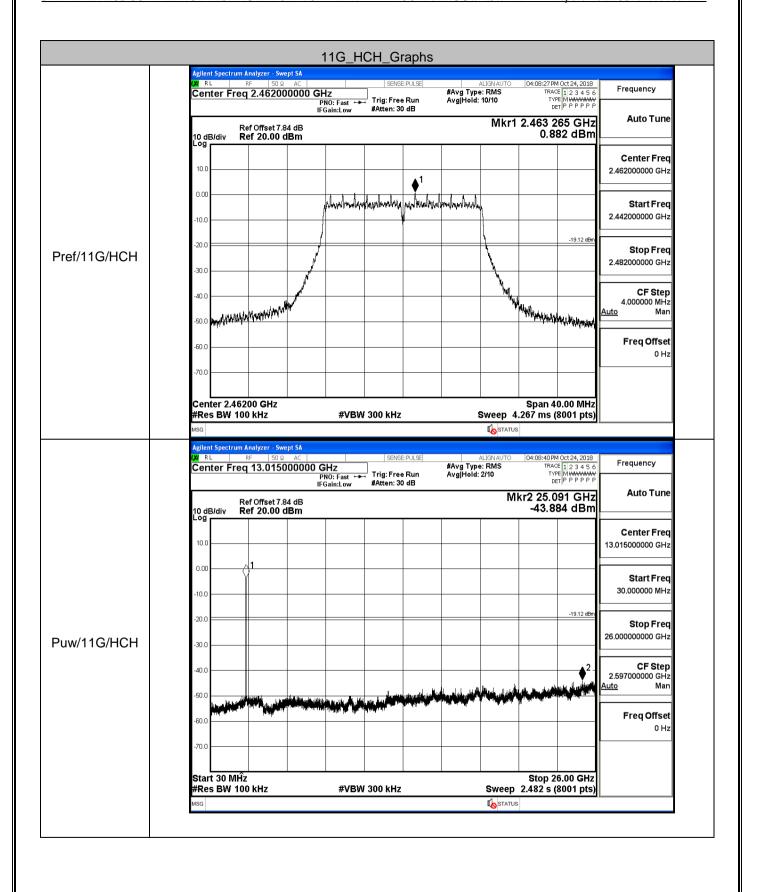


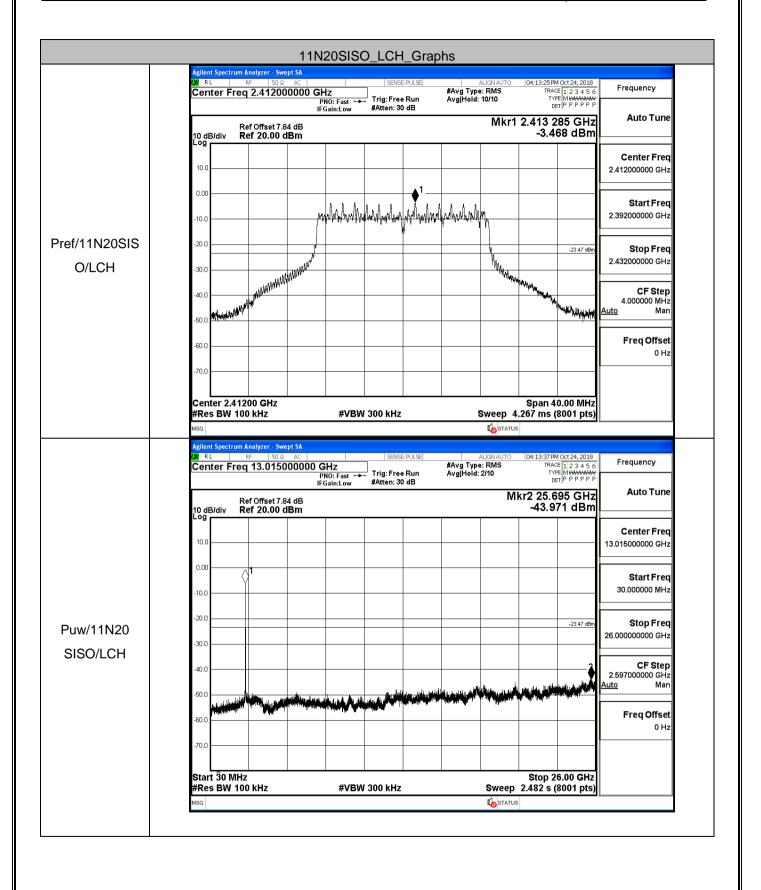


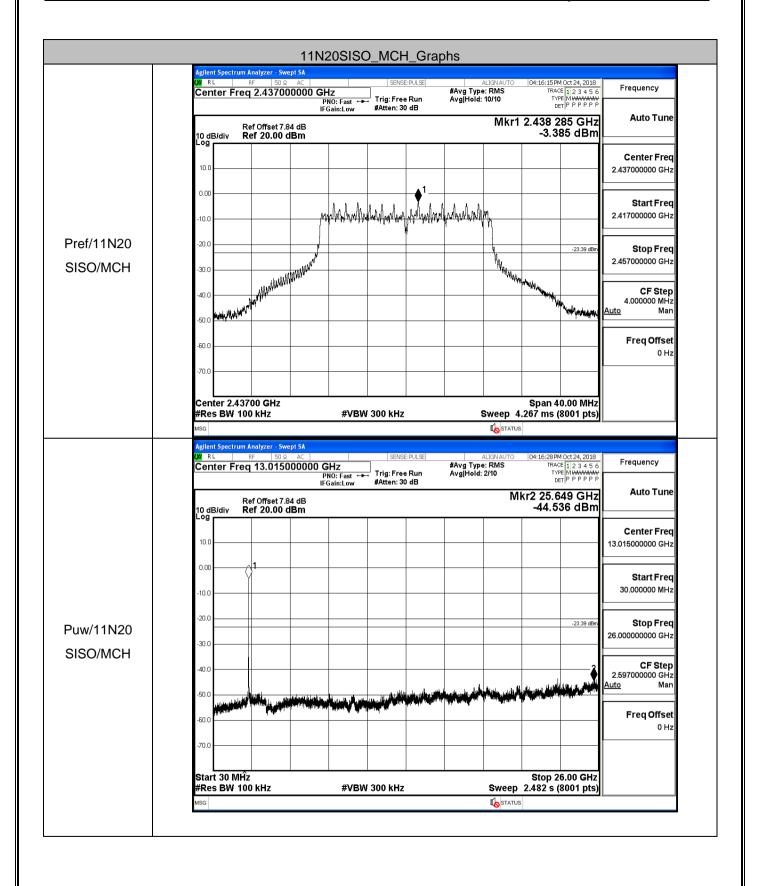


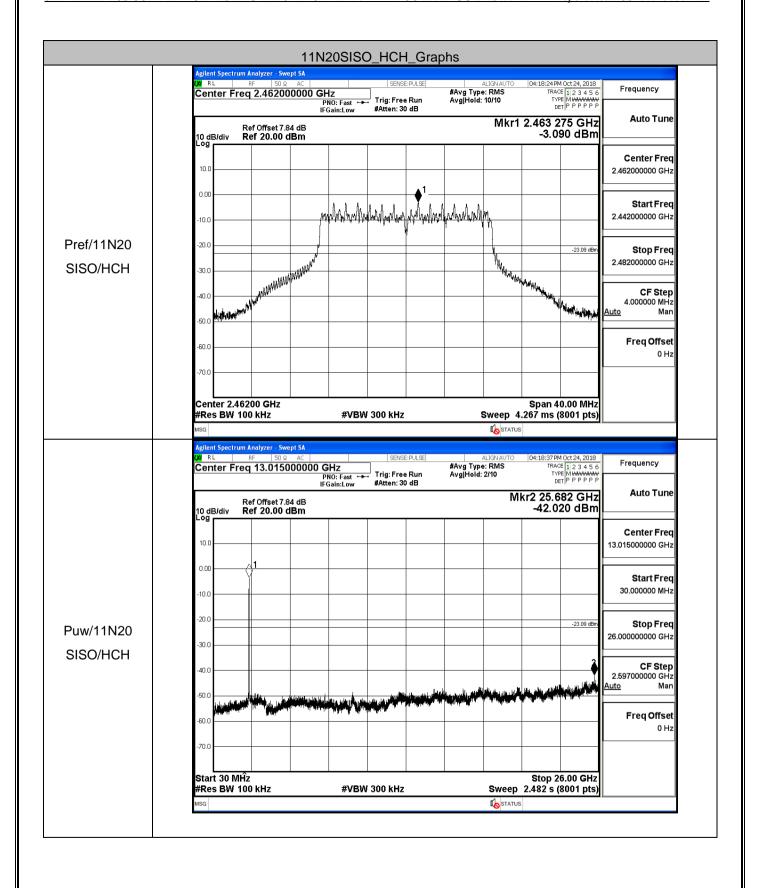






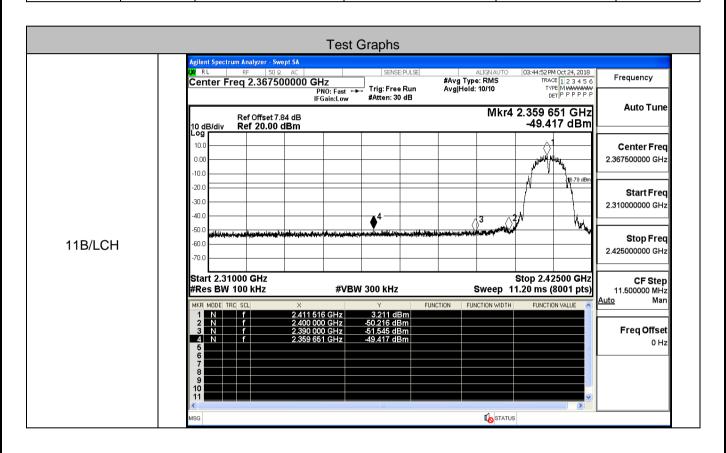


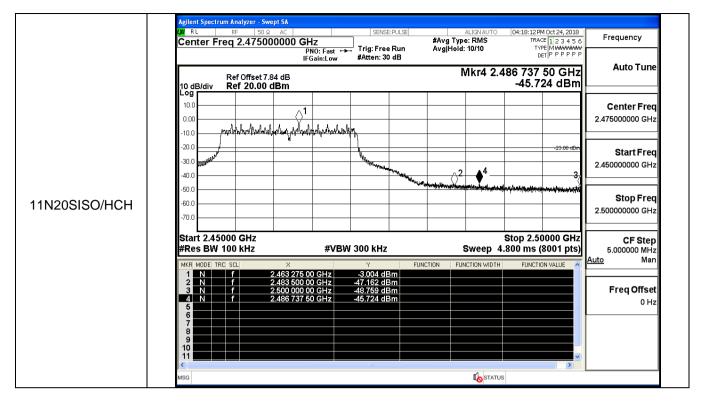




### A.6 Band-edge for RF Conducted Emissions

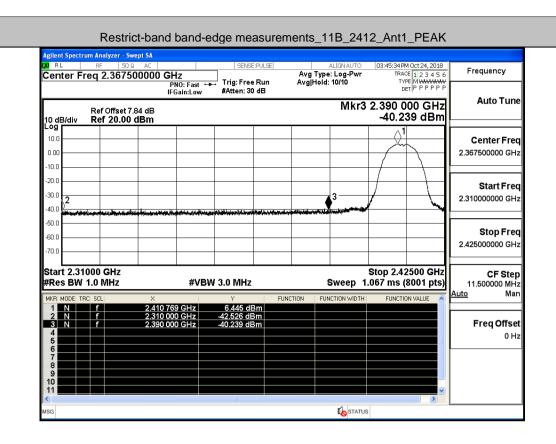
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level	Limit [dBm]	Verdict
445	LCH	3.211	-49.417	-16.79	PASS
11B	HCH	8.293	-47.701	-11.71	PASS
	LCH	0.176	-49.161	-19.82	PASS
11G	HCH	0.733	-48.606	-19.27	PASS
	LCH	-3.381	-46.331	-23.38	PASS
11N20SISO	HCH	-3.004	-45.724	-23	PASS

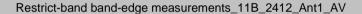


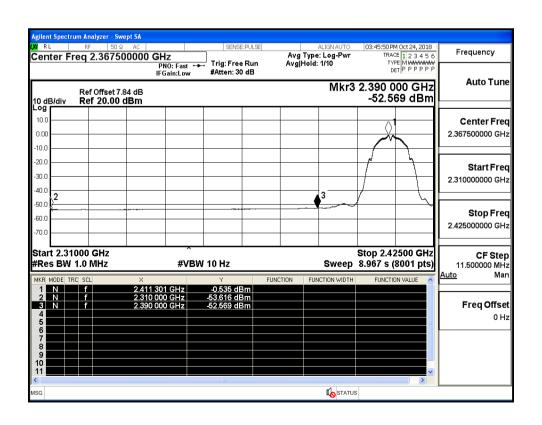


# A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
	2412	Ant1	2310.0	-42.53	2.0	0	54.73	PEAK	74	PASS
	2412	Ant1	2310.0	-53.62	2.0	0	43.64	AV	54	PASS
	2412	Ant1	2390.0	-40.24	2.0	0	57.02	PEAK	74	PASS
	2412	Ant1	2390.0	-52.57	2.0	0	44.69	AV	54	PASS
11B	2462	Ant1	2483.5	-42.02	2.0	0	55.24	PEAK	74	PASS
	2462	Ant1	2483.5	-52.29	2.0	0	44.96	AV	54	PASS
	2462	Ant1	2500.0	-41.96	2.0	0	55.29	PEAK	74	PASS
	2462	Ant1	2500.0	-52.46	2.0	0	44.80	AV	54	PASS
	2412	Ant1	2310.0	-42.74	2.0	0	54.52	PEAK	74	PASS
	2412	Ant1	2310.0	-53.58	2.0	0	43.68	AV	54	PASS
	2412	Ant1	2390.0	-40.40	2.0	0	56.85	PEAK	74	PASS
	2412	Ant1	2390.0	-51.71	2.0	0	45.54	AV	54	PASS
11G	2462	Ant1	2483.5	-39.96	2.0	0	57.30	PEAK	74	PASS
	2462	Ant1	2483.5	-51.77	2.0	0	45.49	AV	54	PASS
	2462	Ant1	2500.0	-41.70	2.0	0	55.56	PEAK	74	PASS
	2462	Ant1	2500.0	-52.62	2.0	0	44.64	AV	54	PASS
	2412	Ant1	2310.0	-38.31	2.0	0	58.95	PEAK	74	PASS
	2412	Ant1	2310.0	-53.50	2.0	0	43.76	AV	54	PASS
	2412	Ant1	2390.0	-31.95	2.0	0	65.30	PEAK	74	PASS
11N20	2412	Ant1	2390.0	-51.89	2.0	0	45.37	AV	54	PASS
SISO	2462	Ant1	2483.5	-29.98	2.0	0	67.28	PEAK	74	PASS
	2462	Ant1	2483.5	-51.63	2.0	0	45.63	AV	54	PASS
	2462	Ant1	2500.0	-33.04	2.0	0	64.21	PEAK	74	PASS
	2462	Ant1	2500.0	-52.56	2.0	0	44.70	AV	54	PASS

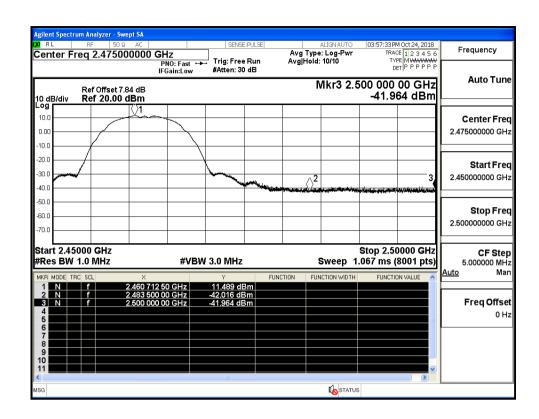




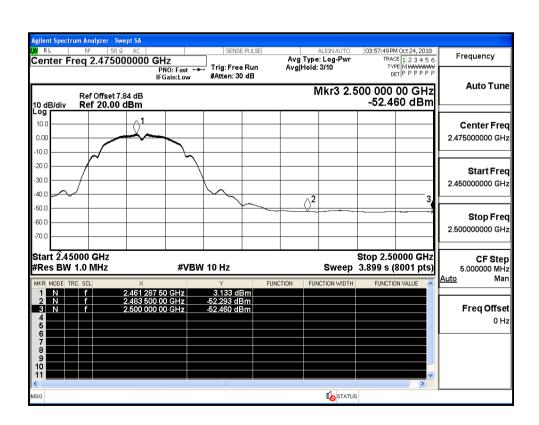


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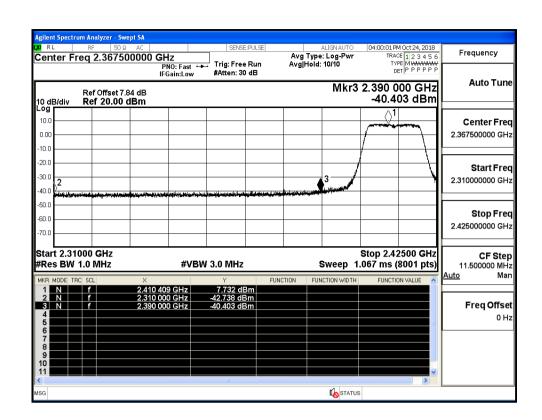
#### Restrict-band band-edge measurements\_11B\_2462\_Ant1\_PEAK



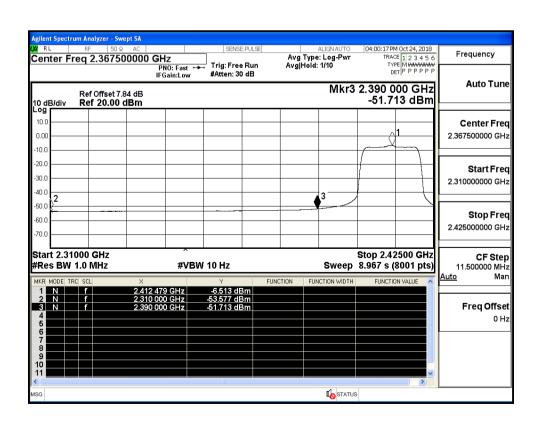
#### Restrict-band band-edge measurements\_11B\_2462\_Ant1\_AV



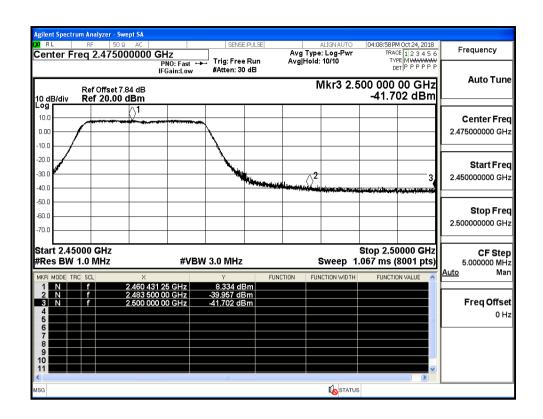
#### Restrict-band band-edge measurements\_11G\_2412\_Ant1\_PEAK



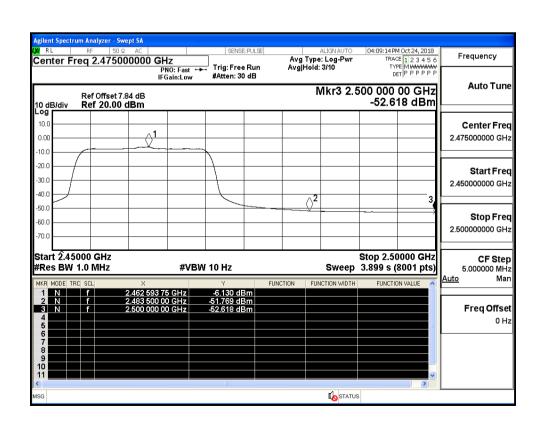
#### Restrict-band band-edge measurements\_11G\_2412\_Ant1\_AV



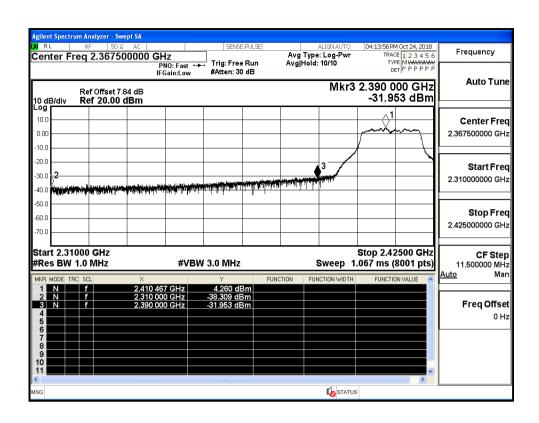
#### Restrict-band band-edge measurements\_11G\_2462\_Ant1\_PEAK



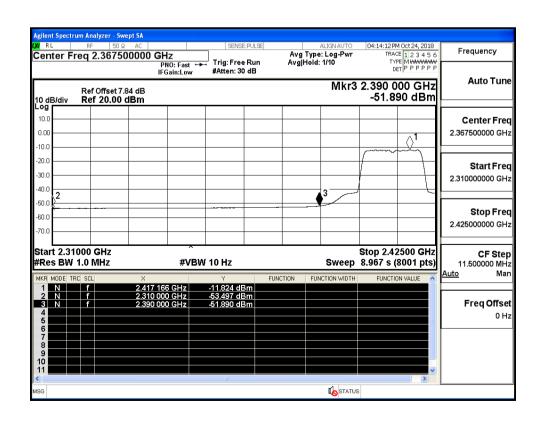
#### Restrict-band band-edge measurements\_11G\_2462\_Ant1\_AV



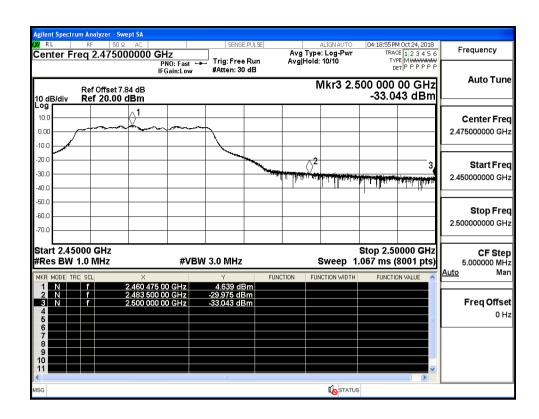
#### Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_PEAK



#### 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

