# Appendix B

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

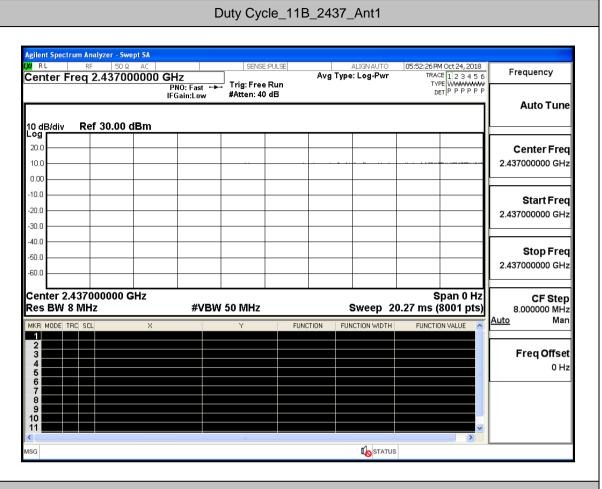
**Product Name:Smart Bridge** Trade Mark: N/A **Test Model: ZJ-MHSB-A** 

### **Environmental Conditions**

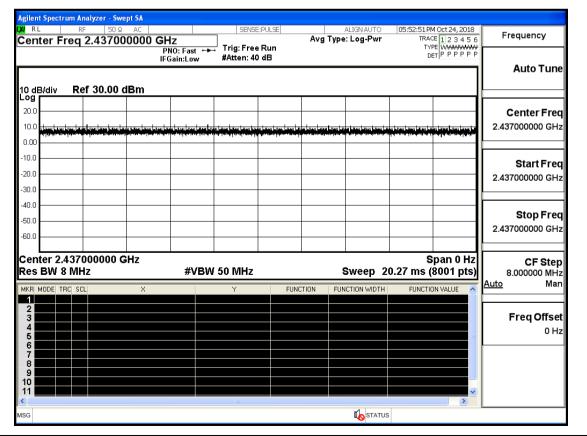
	<del>_</del> -	
	Temperature:	24.3 ° C
Relative Humidity: ATM Pressure:		52.7%
		100.0 kPa
	Test Engineer:	Mina.Xu
	Supervised by:	Jayden.Zhuo

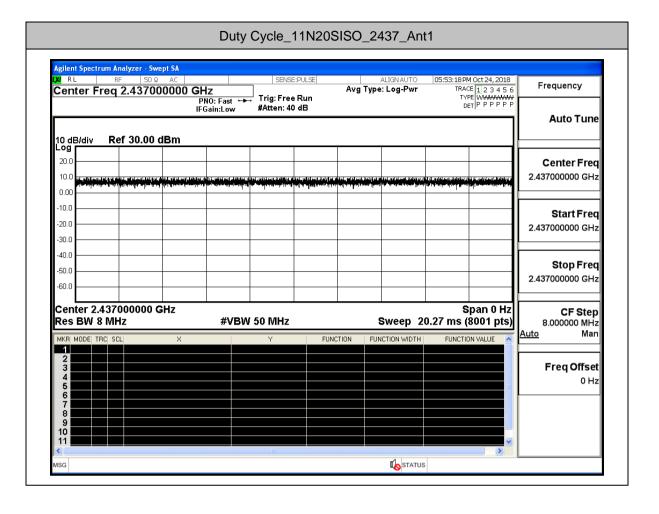
## **B.1 Duty Cycle**

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



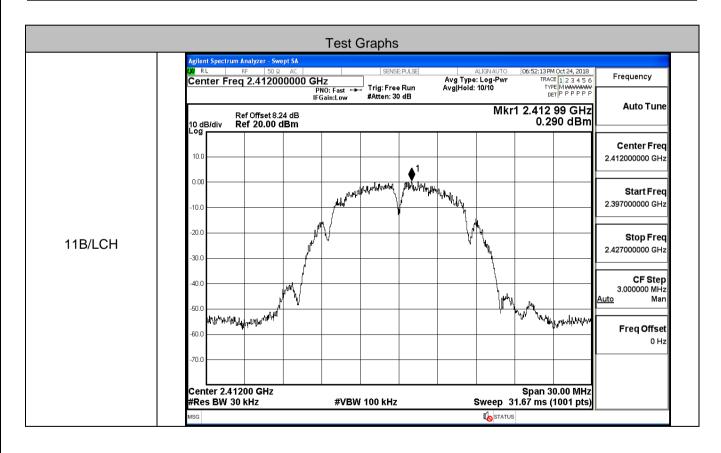


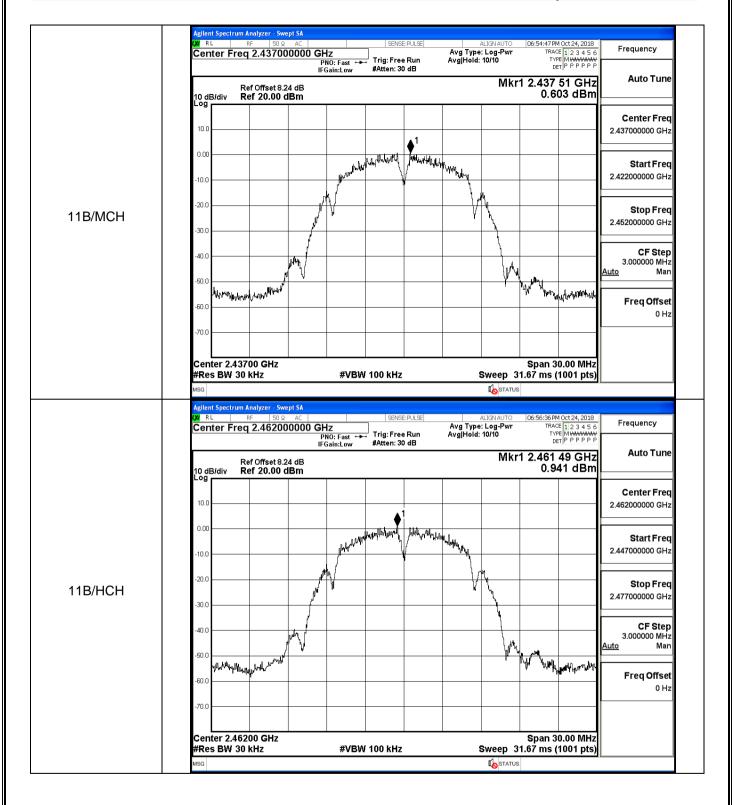
## **B.2 Maximum Conducted Output Power**

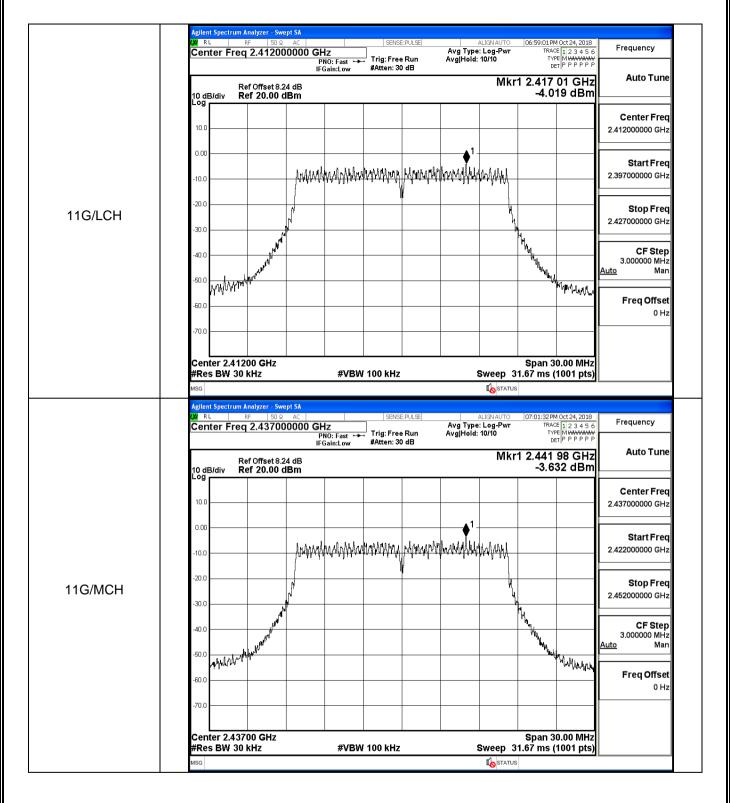
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
	LCH	15.69	30	PASS
11B	MCH	15.72	30	PASS
	HCH	16.12	30	PASS
	LCH	15.58	30	PASS
11G	MCH	15.63	30	PASS
	HCH	16.21	30	PASS
	LCH	15.07	30	PASS
11N20SISO	MCH	15.16	30	PASS
	HCH	15.47	30	PASS

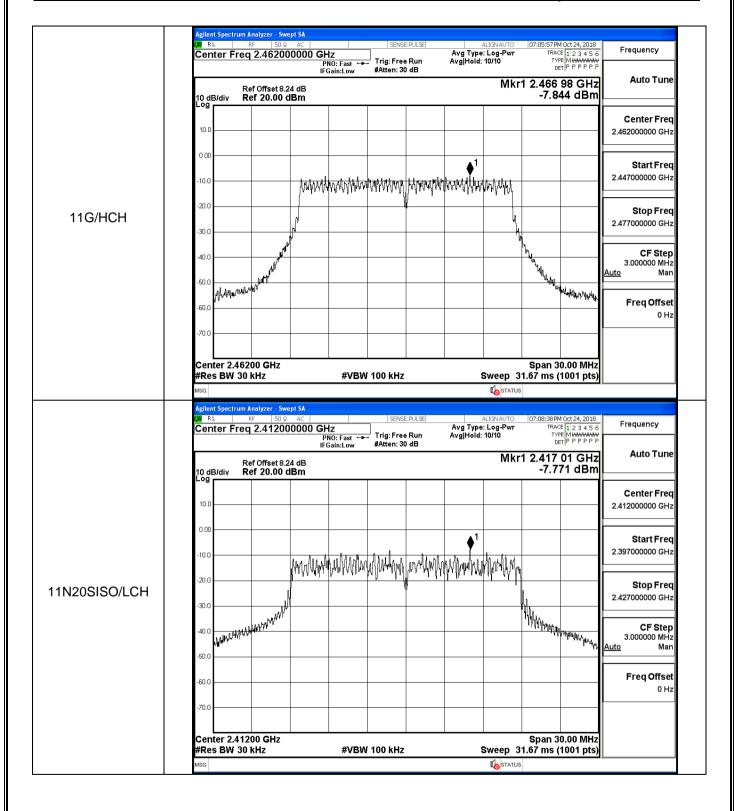
### **B.3 Maximum Power Spectral Density**

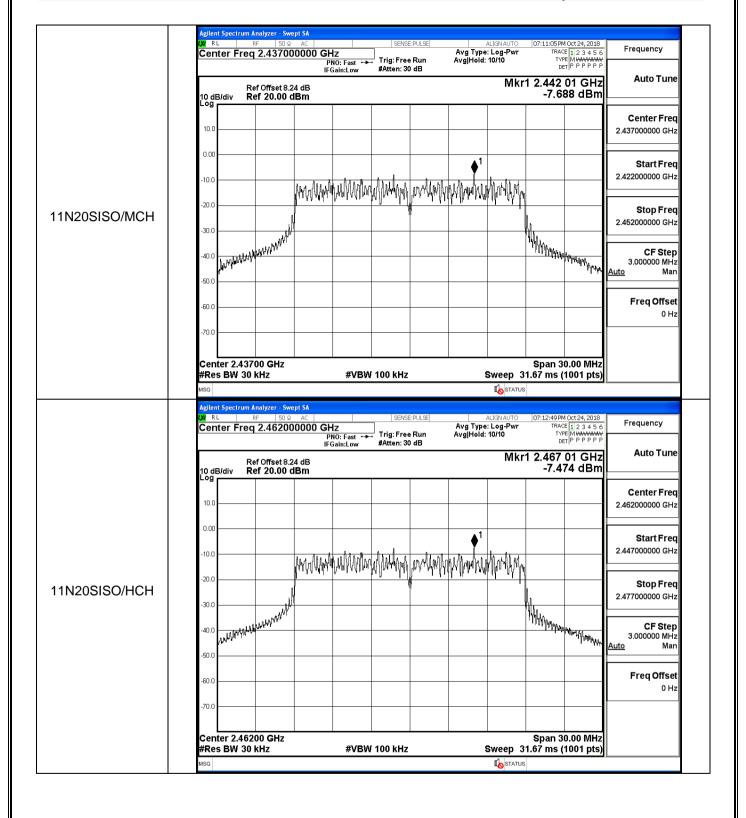
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
	LCH	0.290	8	PASS
11B	MCH	0.603	8	PASS
	HCH	0.941	8	PASS
	LCH	-4.019	8	PASS
11G	MCH	-3.632	8	PASS
	HCH	-7.844	8	PASS
	LCH	-7.771	8	PASS
11N20SISO	MCH	-7.688	8	PASS
	HCH	-7.474	8	PASS





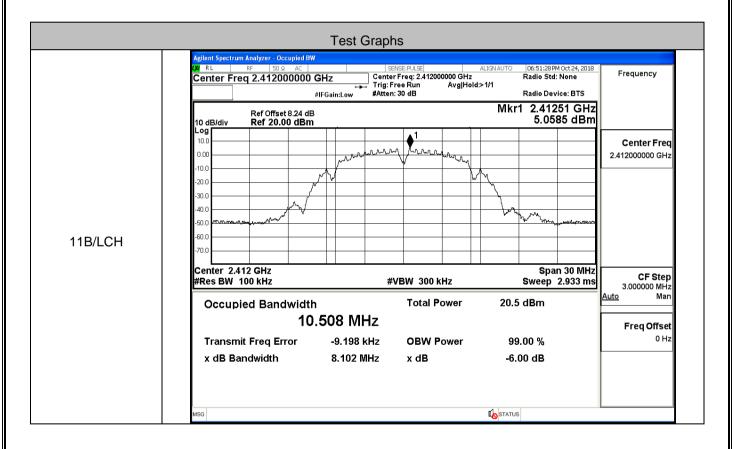


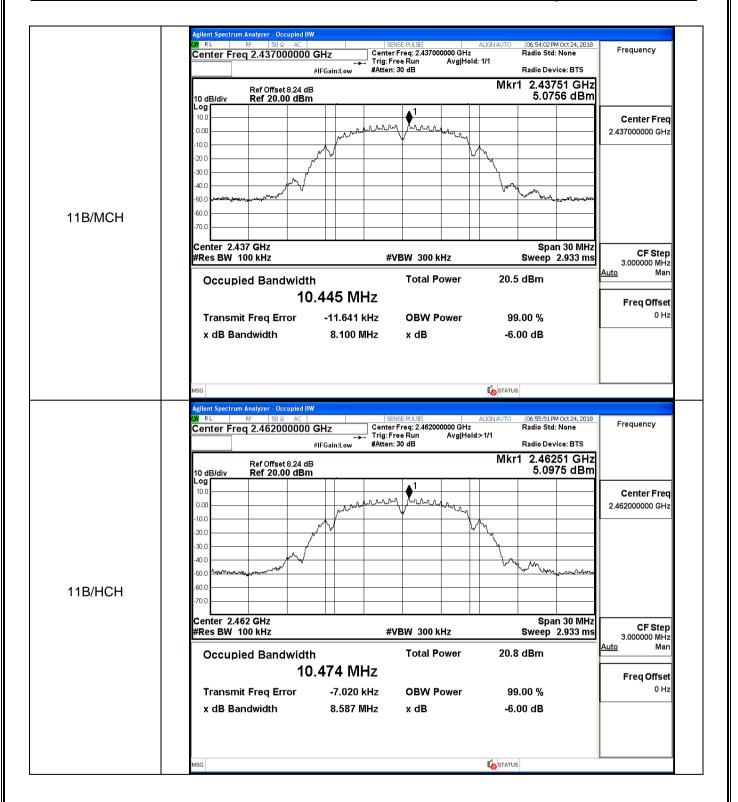


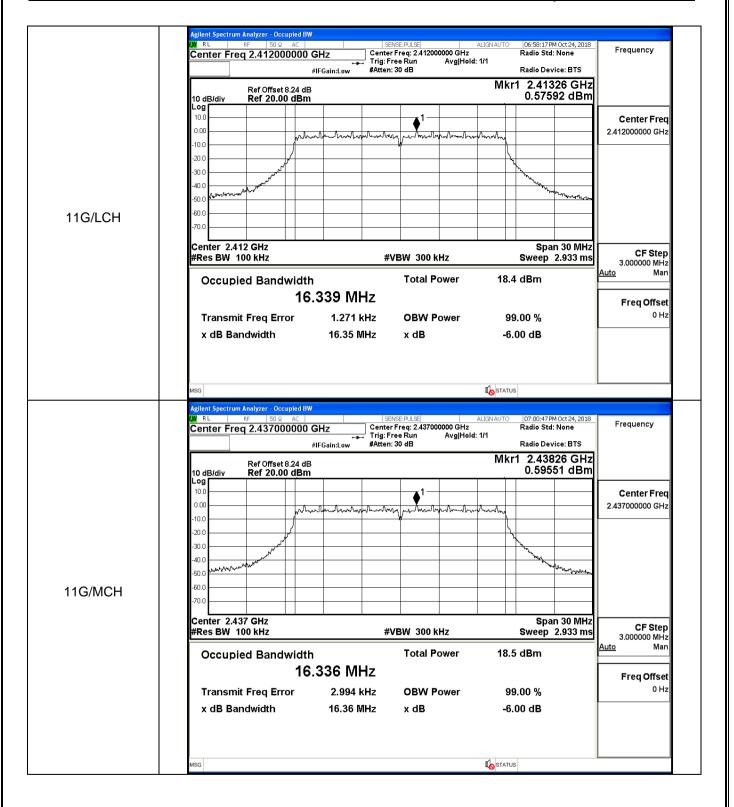


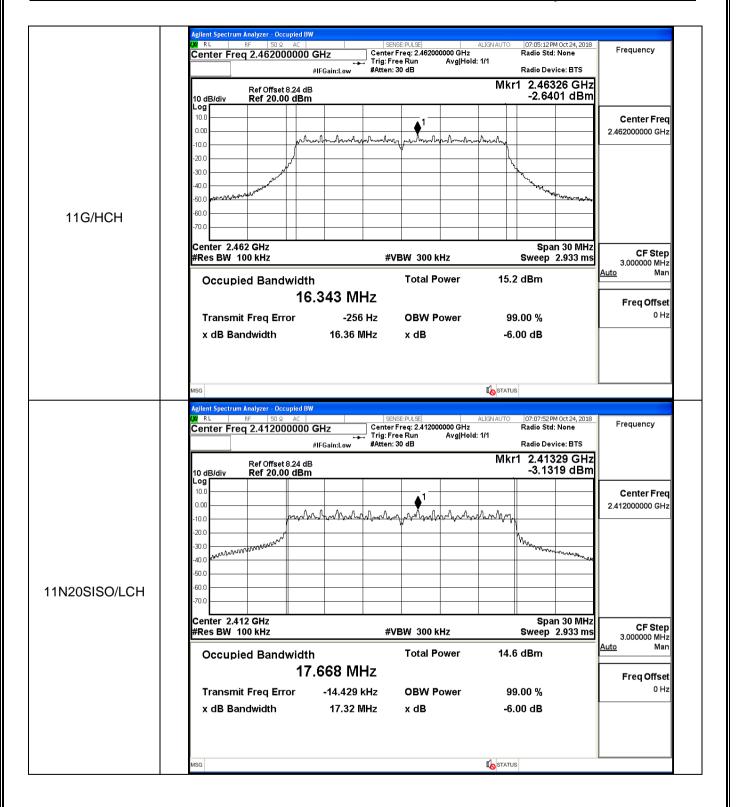
### **B.4 6dB Bandwidth**

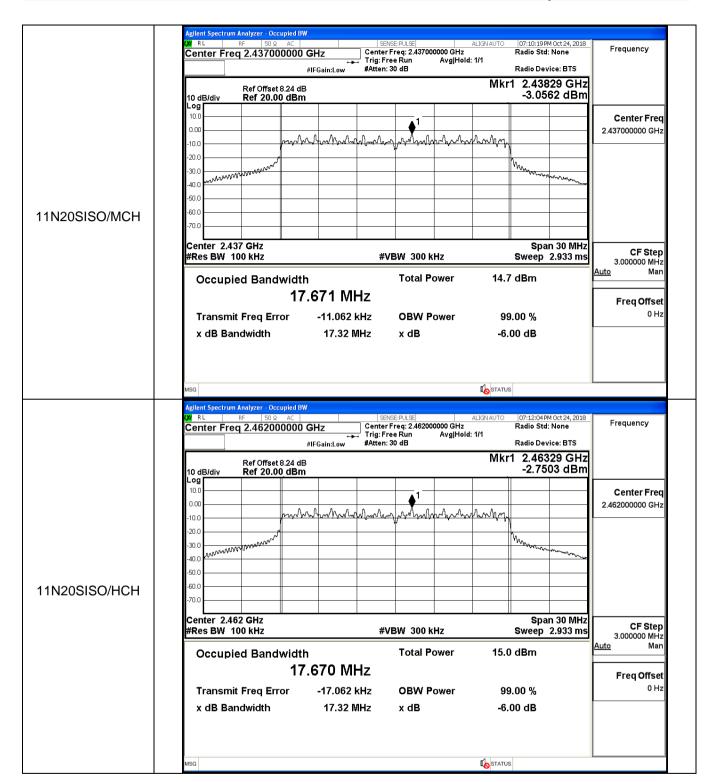
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	8.102	≥0.5	PASS
11B	MCH	8.100	≥0.5	PASS
	HCH	8.587	≥0.5	PASS
	LCH	16.35	≥0.5	PASS
11G	MCH	16.36	≥0.5	PASS
	HCH	16.36	≥0.5	PASS
	LCH	17.32	≥0.5	PASS
11N20SISO	MCH	17.32	≥0.5	PASS
	HCH	17.32	≥0.5	PASS





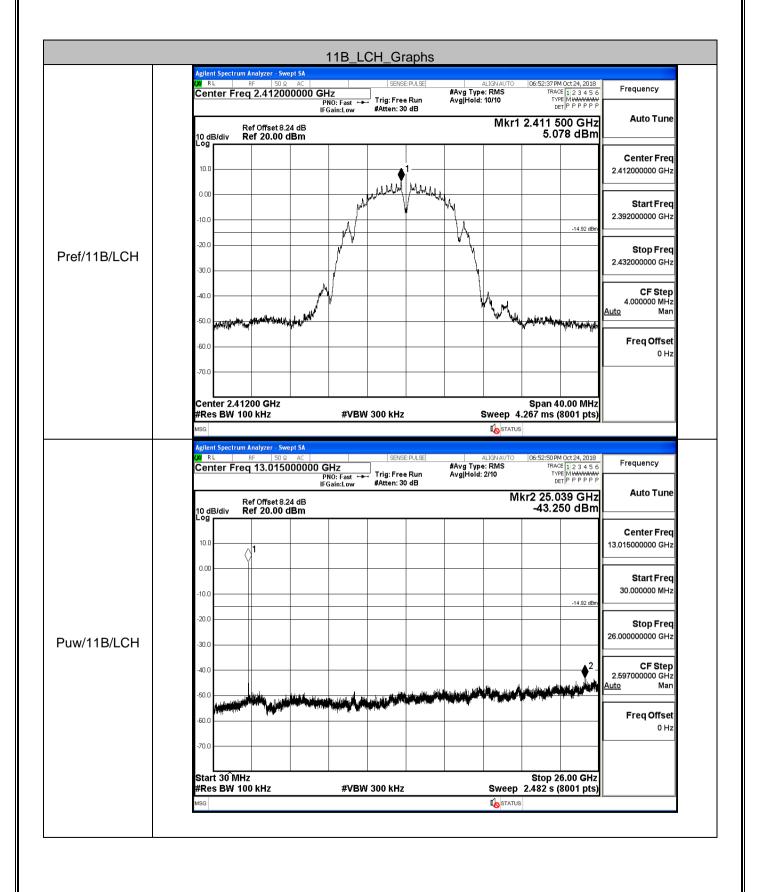


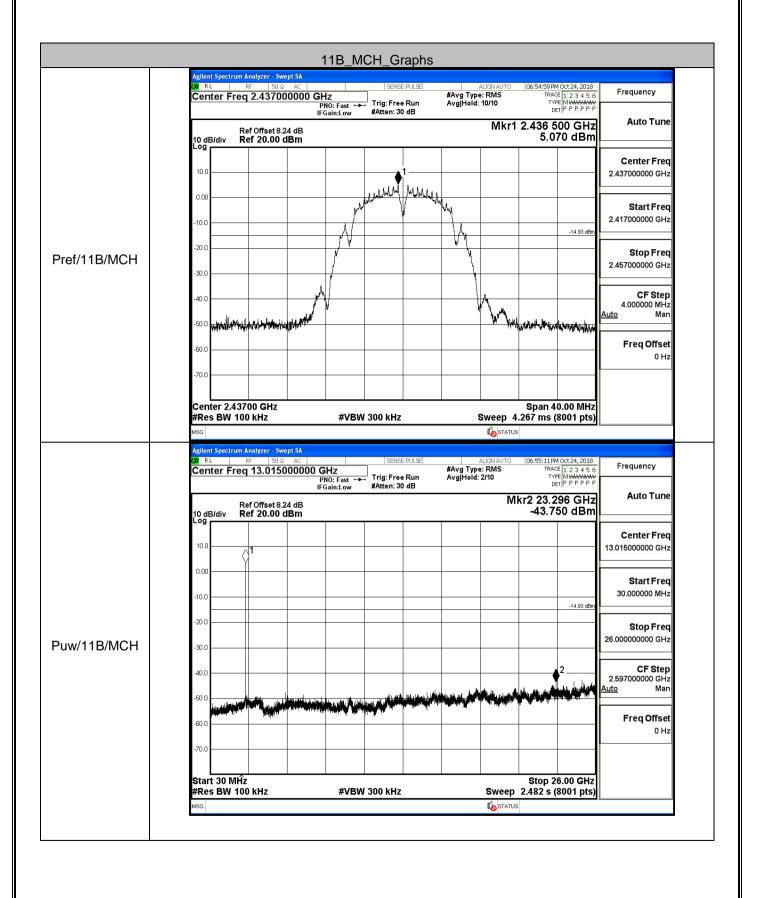


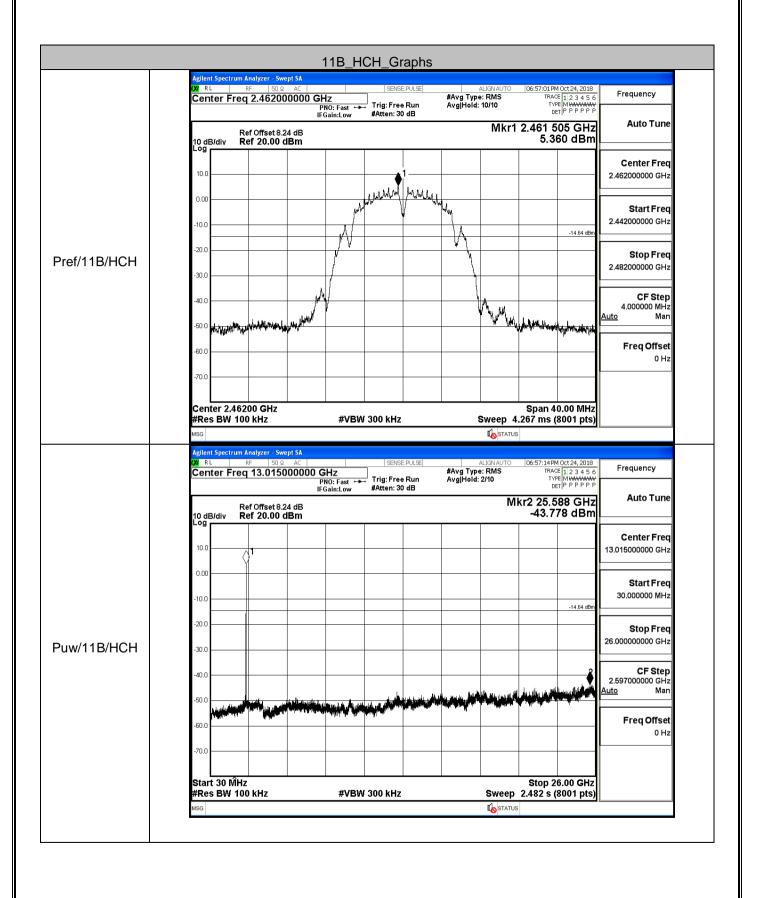


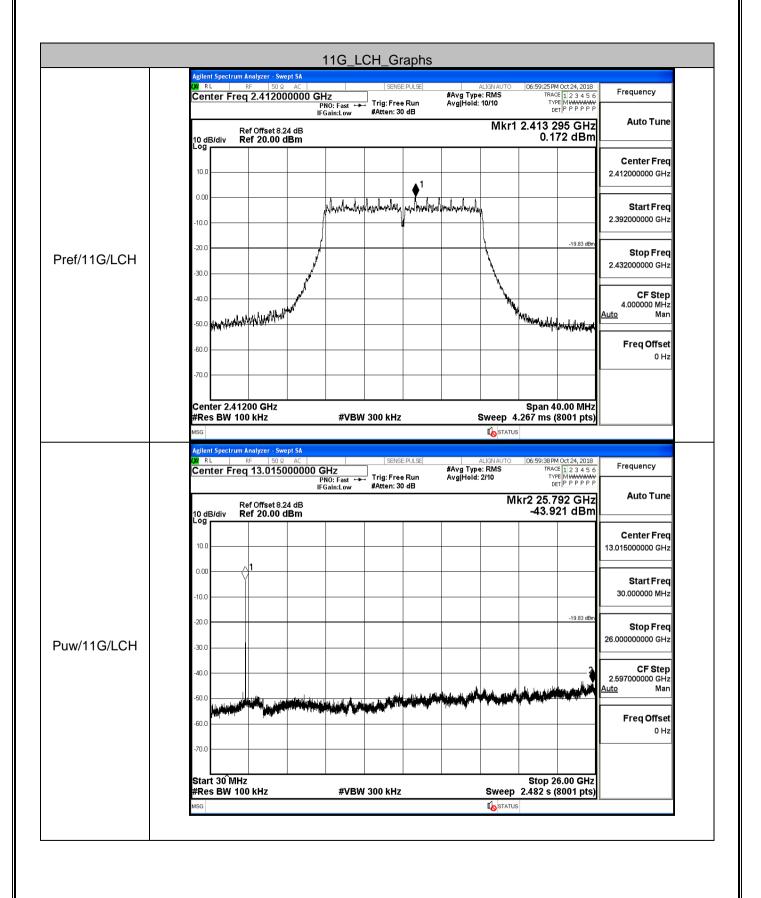
## **B.5 RF Conducted Spurious Emissions**

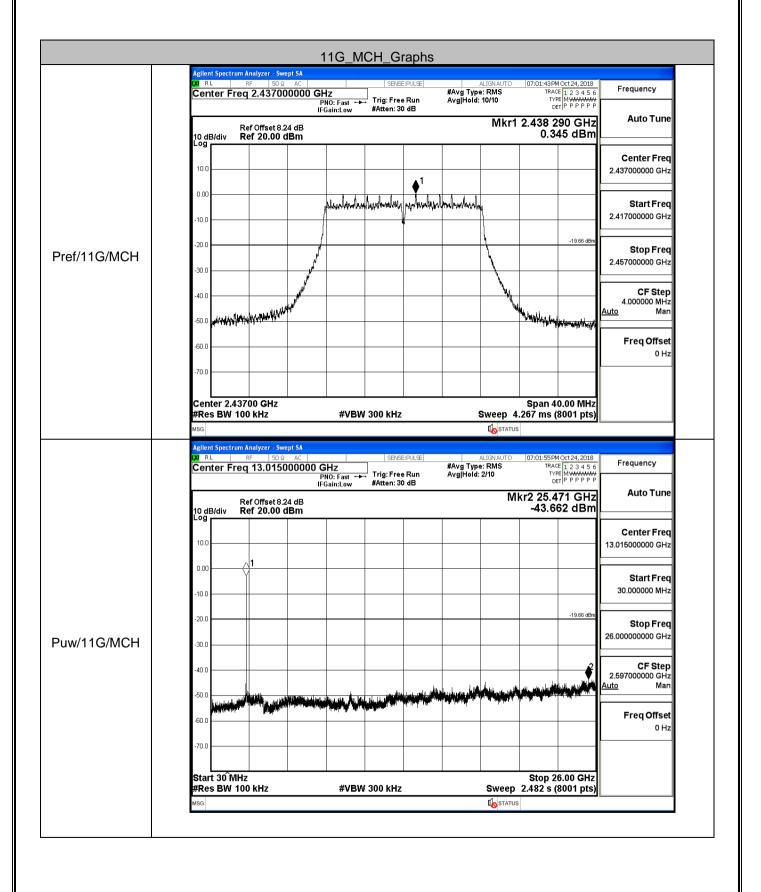
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	5.078	-43.250	-14.922	PASS
11B	MCH	5.07	-43.750	-14.930	PASS
	НСН	5.36	-43.778	-14.640	PASS
	LCH	0.172	-43.921	-19.828	PASS
11G	MCH	0.345	-43.662	-19.655	PASS
	НСН	-2.681	-43.176	-22.681	PASS
	LCH	-3.179	-44.209	-23.179	PASS
11N20	MCH	-3.173	-44.027	-23.173	PASS
SISO	НСН	-2.848	-43.352	-22.848	PASS

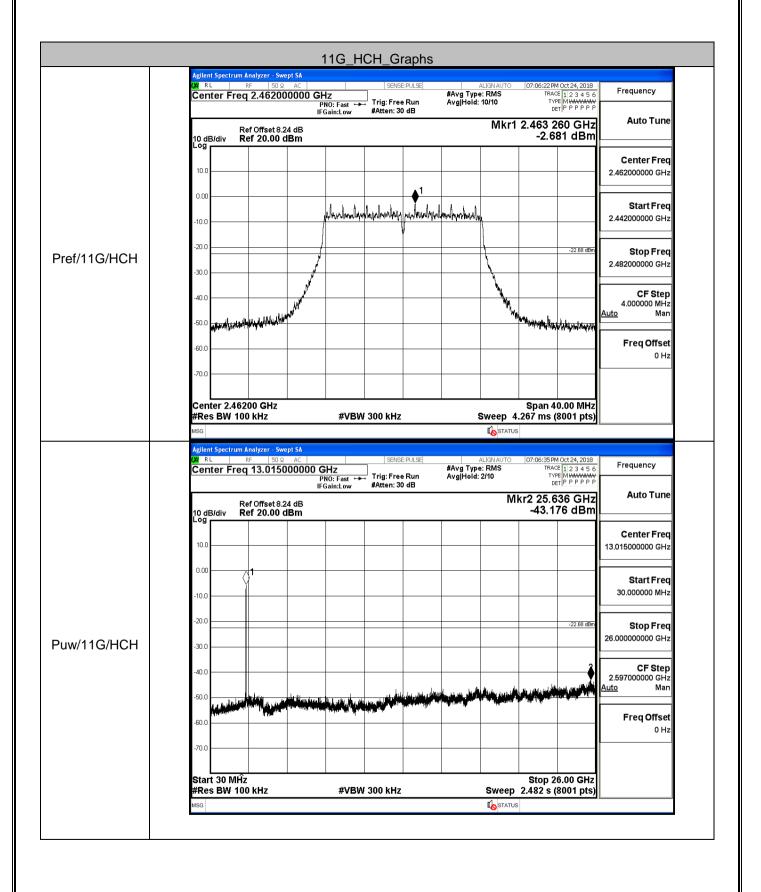


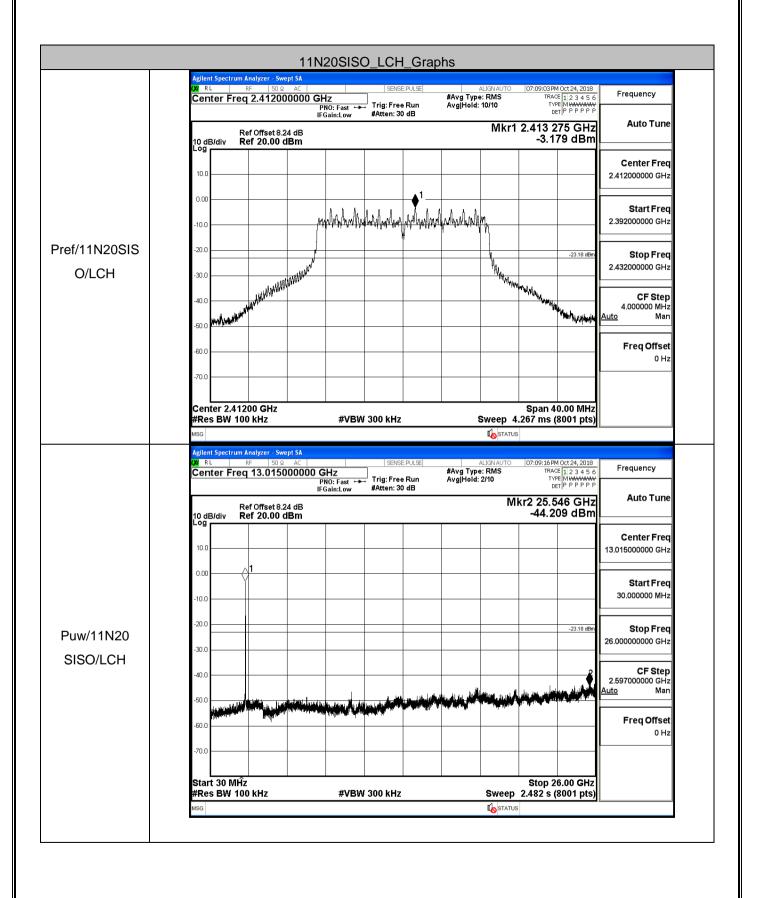


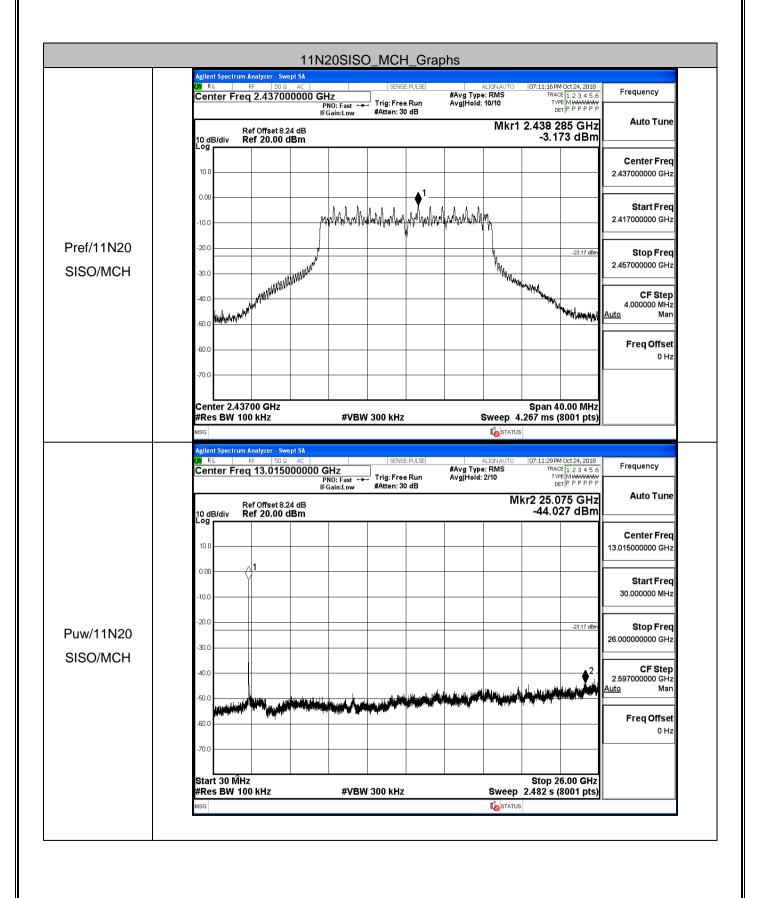


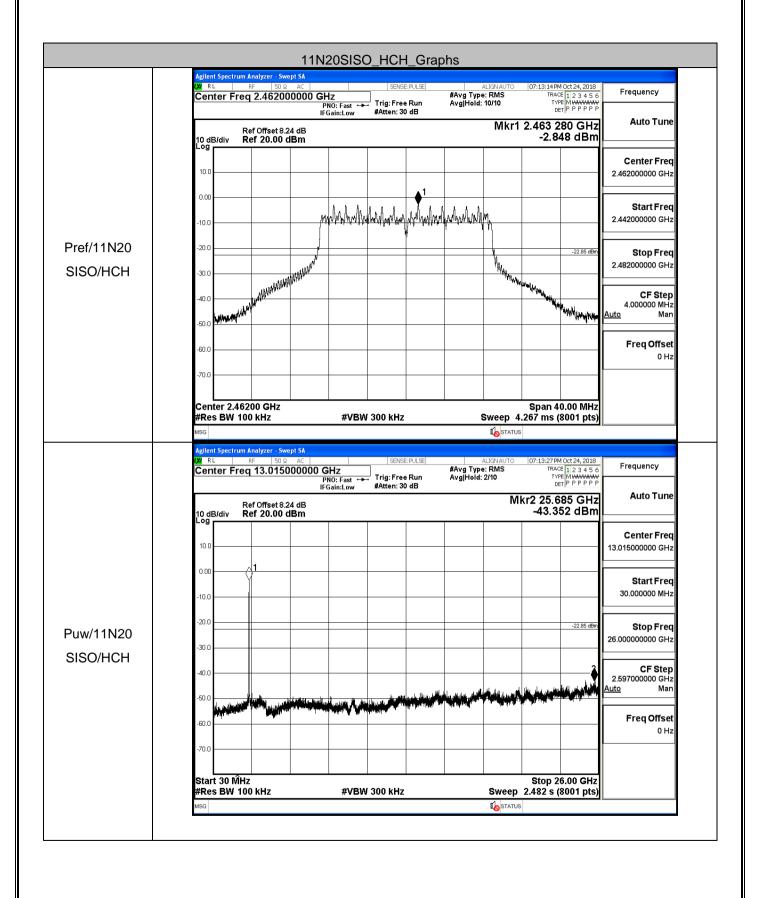






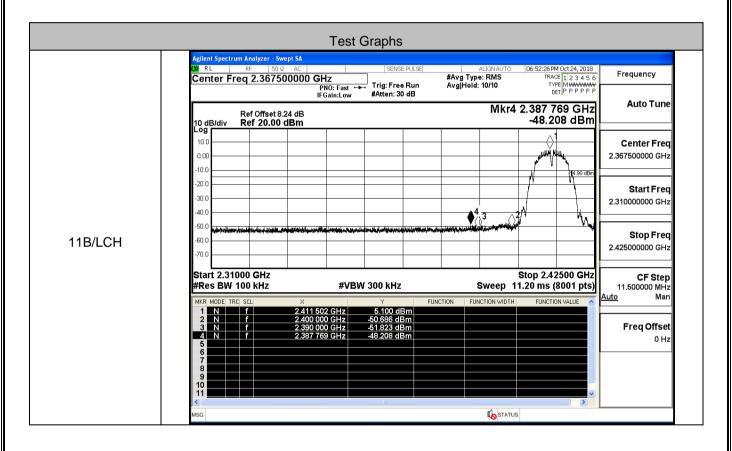


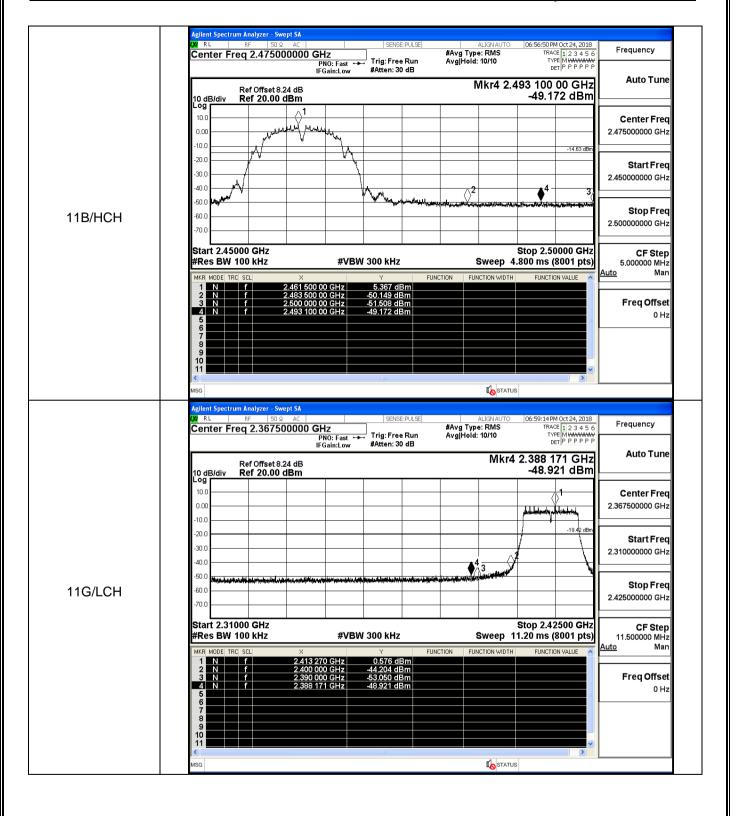


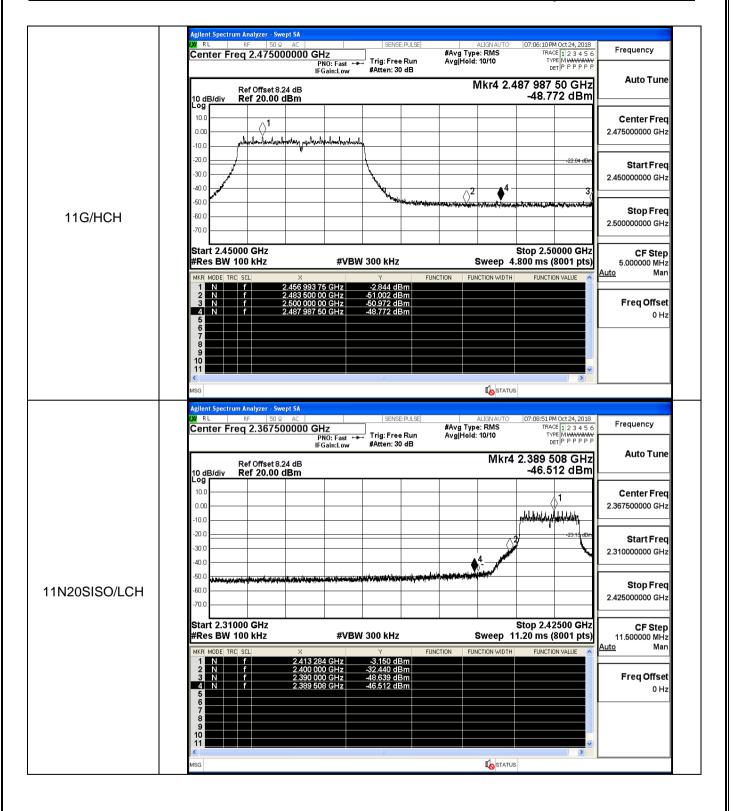


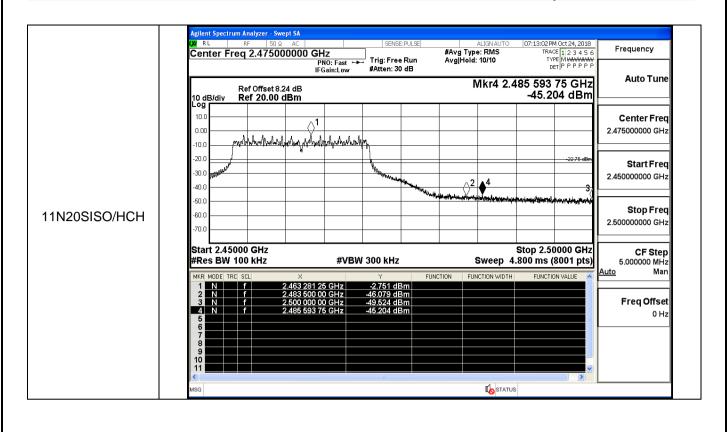
### **B.6 Band-edge for RF Conducted Emissions**

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
445	LCH	5.100	-48.208	-14.9	PASS
11B	HCH	5.367	-49.172	-14.63	PASS
	LCH	0.576	-48.921	-19.42	PASS
11G	HCH	-2.844	-48.772	-22.84	PASS
	LCH	-3.150	-46.512	-23.15	PASS
11N20SISO	HCH	-2.751	-45.204	-22.75	PASS

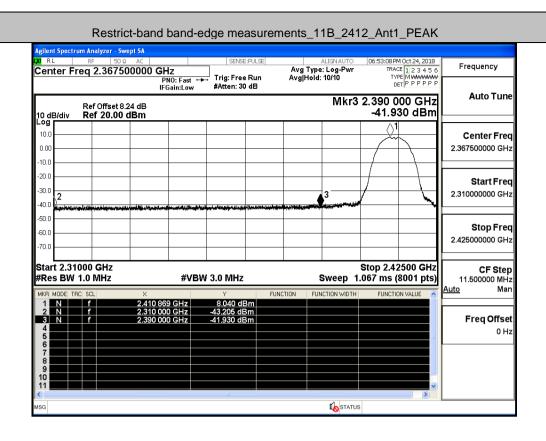


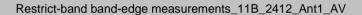


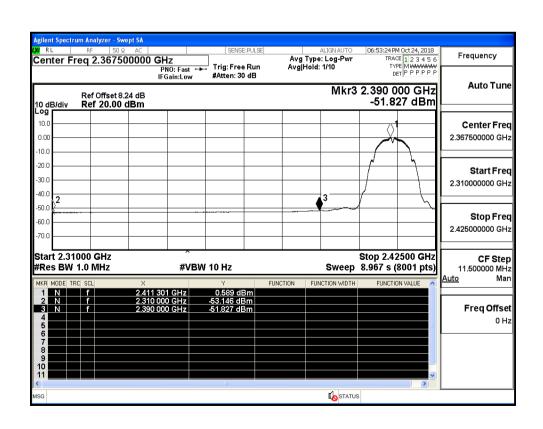


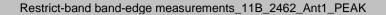


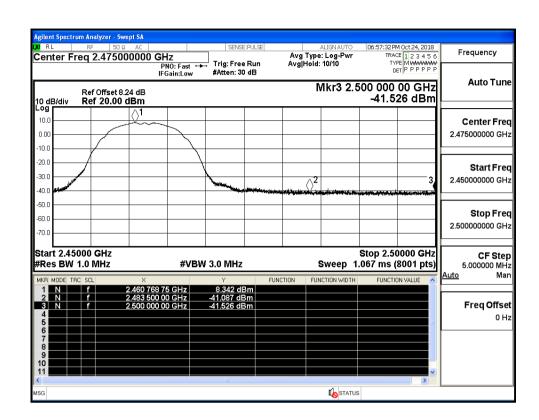
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
	2412	Ant1	2310.0	-43.21	2.0	0	52.05	PEAK	74	PASS
	2412	Ant1	2310.0	-53.15	2.0	0	42.11	AV	54	PASS
	2412	Ant1	2390.0	-41.93	2.0	0	53.33	PEAK	74	PASS
	2412	Ant1	2390.0	-51.83	2.0	0	43.43	AV	54	PASS
11B	2462	Ant1	2483.5	-41.09	2.0	0	54.17	PEAK	74	PASS
	2462	Ant1	2483.5	-51.78	2.0	0	43.48	AV	54	PASS
	2462	Ant1	2500.0	-41.53	2.0	0	53.73	PEAK	74	PASS
	2462	Ant1	2500.0	-52.30	2.0	0	42.96	AV	54	PASS
	2412	Ant1	2310.0	-40.62	2.0	0	54.64	PEAK	74	PASS
	2412	Ant1	2310.0	-53.18	2.0	0	42.08	AV	54	PASS
	2412	Ant1	2390.0	-39.82	2.0	0	55.44	PEAK	74	PASS
	2412	Ant1	2390.0	-51.37	2.0	0	43.89	AV	54	PASS
11G	2462	Ant1	2483.5	-41.28	2.0	0	53.98	PEAK	74	PASS
	2462	Ant1	2483.5	-52.02	2.0	0	43.23	AV	54	PASS
	2462	Ant1	2500.0	-41.28	2.0	0	53.98	PEAK	74	PASS
	2462	Ant1	2500.0	-52.29	2.0	0	42.97	AV	54	PASS
	2412	Ant1	2310.0	-42.91	2.0	0	52.35	PEAK	74	PASS
	2412	Ant1	2310.0	-53.13	2.0	0	42.13	AV	54	PASS
	2412	Ant1	2390.0	-30.78	2.0	0	64.48	PEAK	74	PASS
11N20	2412	Ant1	2390.0	-51.53	2.0	0	43.73	AV	54	PASS
SISO	2462	Ant1	2483.5	-30.05	2.0	0	65.21	PEAK	74	PASS
	2462	Ant1	2483.5	-51.30	2.0	0	43.95	AV	54	PASS
	2462	Ant1	2500.0	-32.96	2.0	0	62.30	PEAK	74	PASS
	2462	Ant1	2500.0	-52.19	2.0	0	43.07	AV	54	PASS



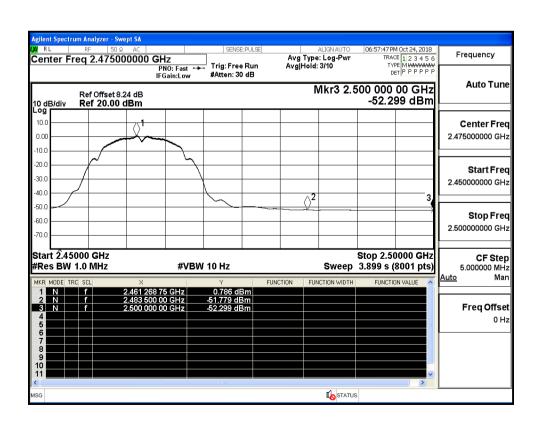


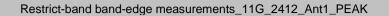


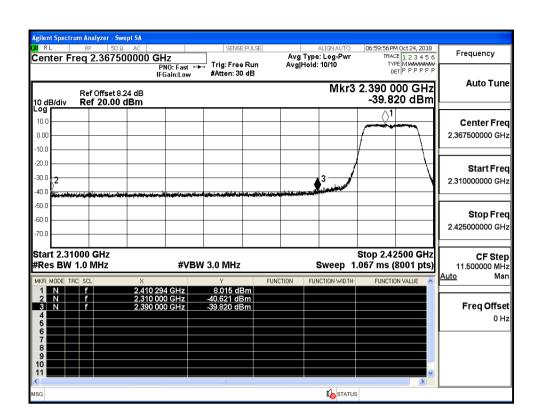




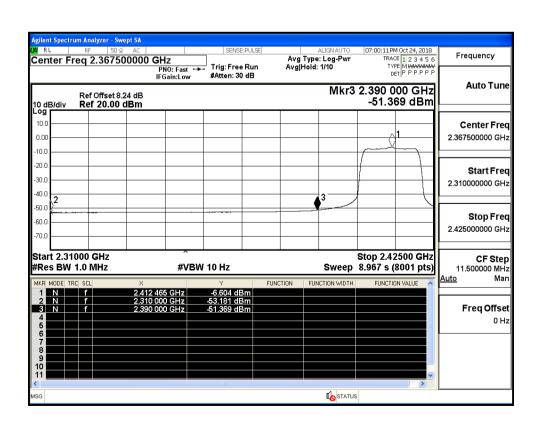
### Restrict-band band-edge measurements\_11B\_2462\_Ant1\_AV

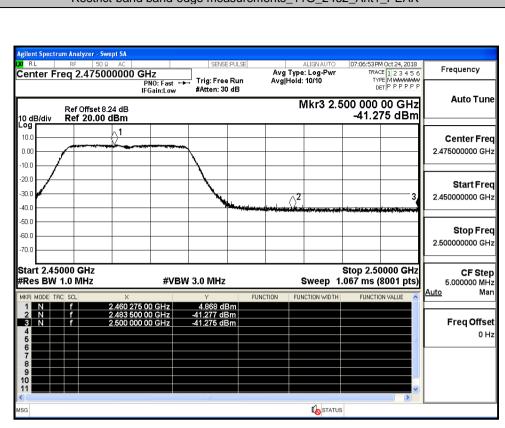




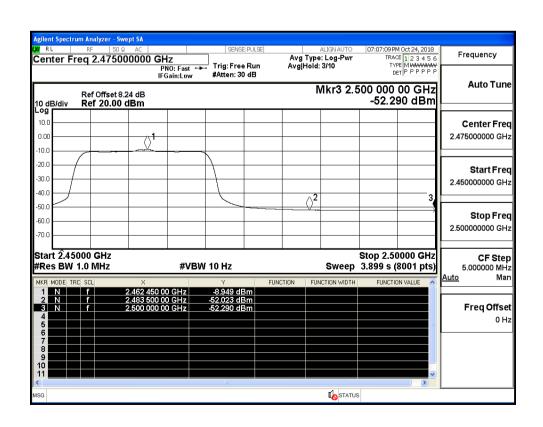


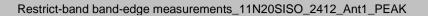
### Restrict-band band-edge measurements\_11G\_2412\_Ant1\_AV

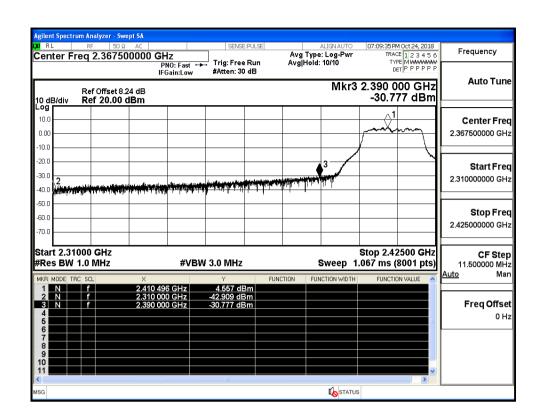




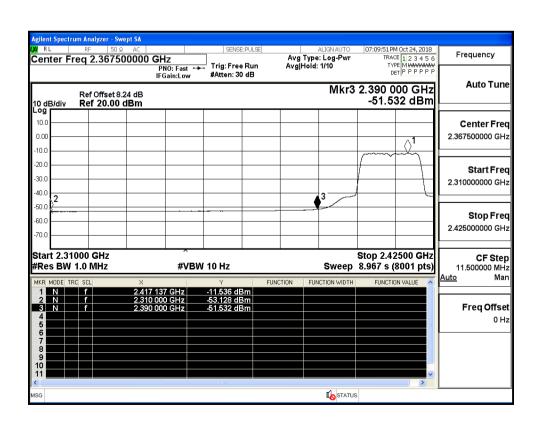
### Restrict-band band-edge measurements\_11G\_2462\_Ant1\_AV

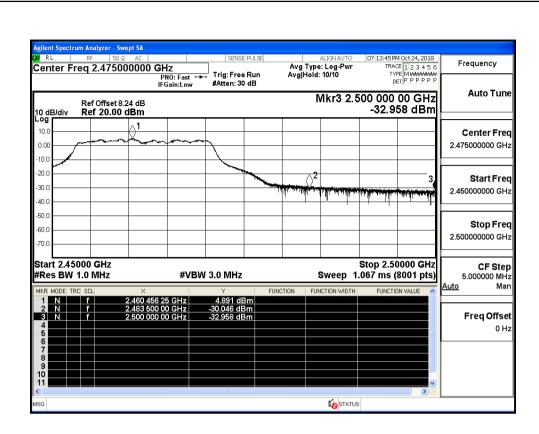






### Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_AV





### Restrict-band band-edge measurements\_11N20SISO\_2462\_Ant1\_AV

