# **Appendix B**

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

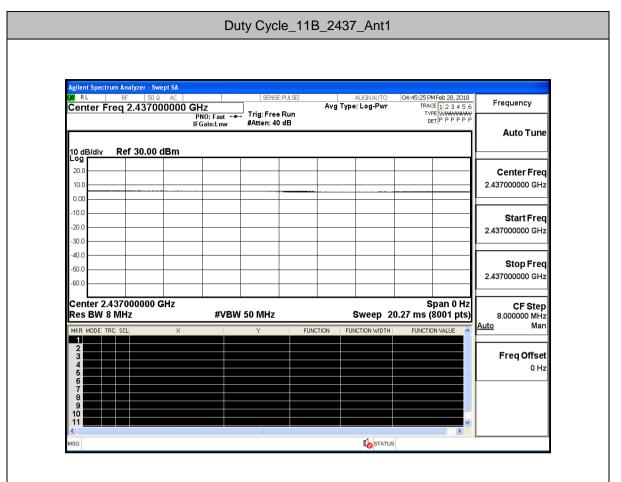
**Product Name: Wireless speaker** Trade Mark: N/A Test Model: R1

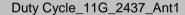
### **Environmental Conditions**

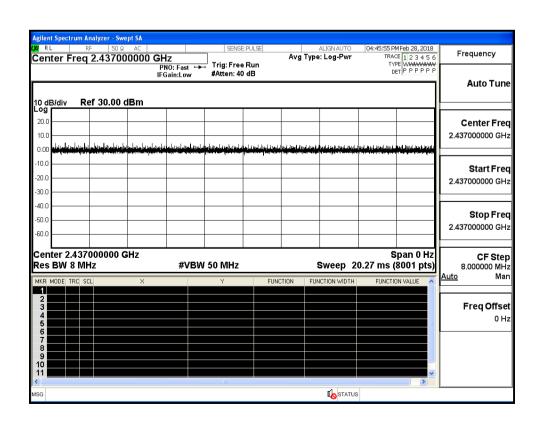
<del></del> :						
Temperature:	21.5 ° C					
Relative Humidity:	52.3%					
ATM Pressure:	100.0 kPa					
Test Engineer:	Mina.xu					
Supervised by:	Tom.Liu					

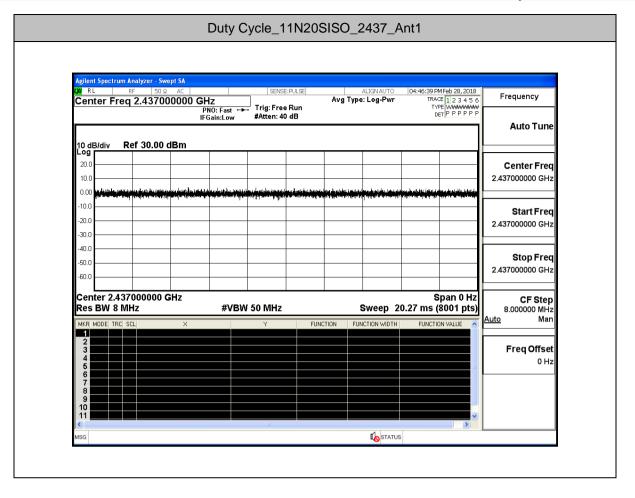
## **B.1 Duty Cycle**

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







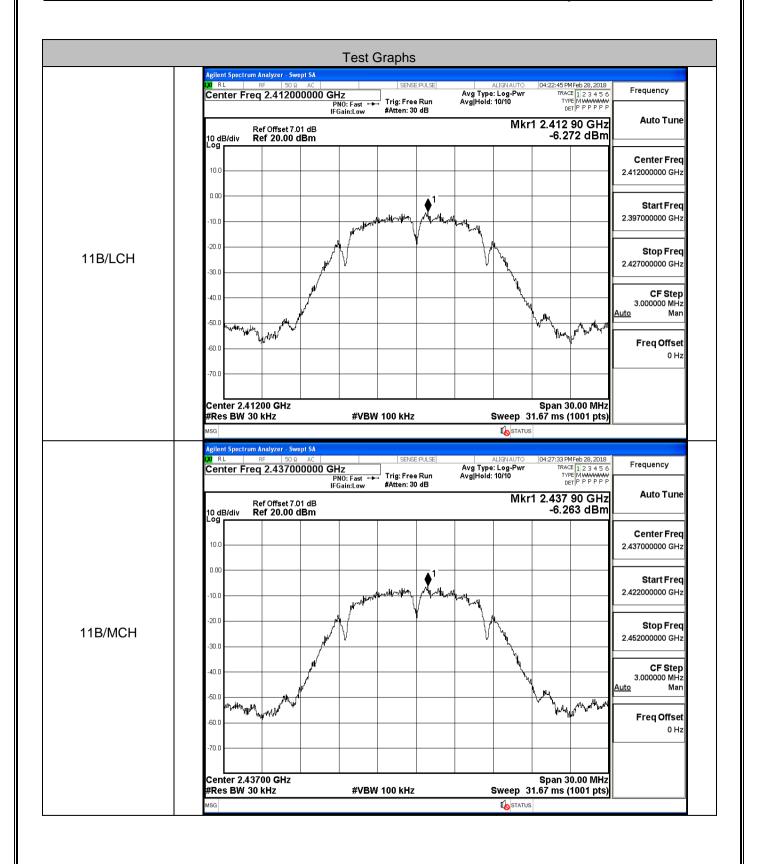


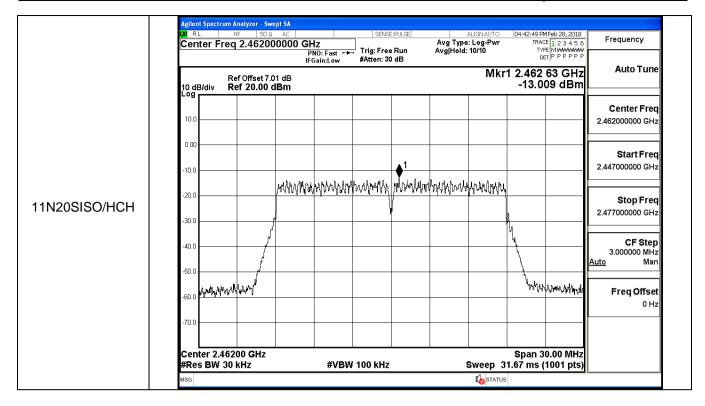
## **B.2 Maximum Conducted Output Power**

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
	LCH	9.35	30	PASS
11B	MCH	9.28	30	PASS
	НСН	9.39	30	PASS
	LCH	8.78	30	PASS
11G	MCH	8.69	30	PASS
	HCH	8.81	30	PASS
	LCH	8.48	30	PASS
11N20SISO			30	PASS
	HCH	8.69	30	PASS

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

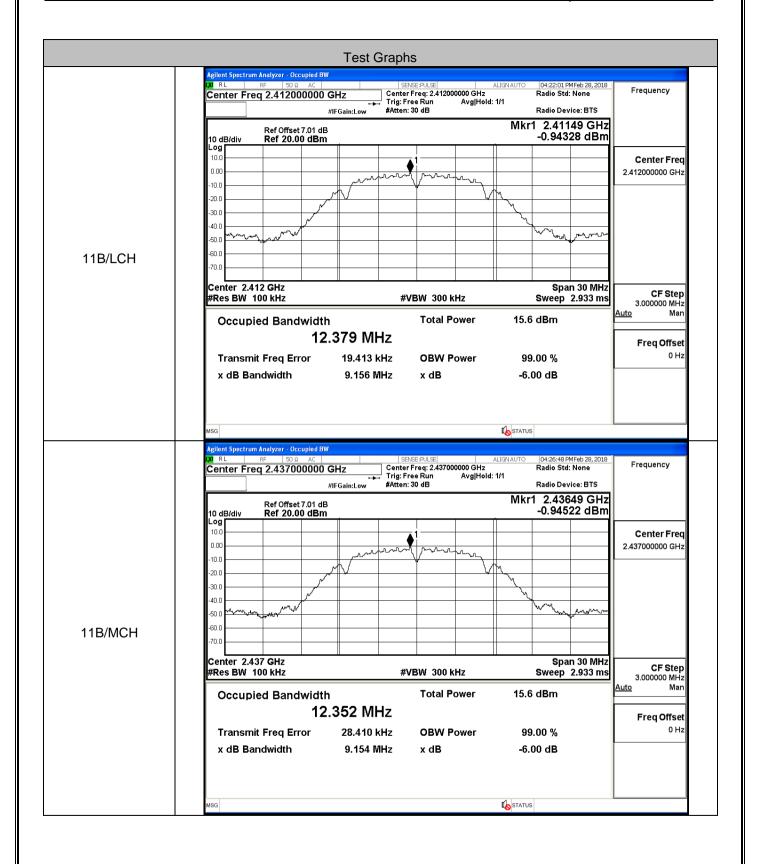
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
	LCH	-6.272	8	PASS
11B	MCH	-6.263	8	PASS
	HCH	-6.238	8	PASS
	LCH	-12.616	8	PASS
11G	MCH	-13.456	8	PASS
	HCH	-13.510	8	PASS
	LCH	-12.709	8	PASS
11N20SISO	20SISO MCH -13.491		8	PASS
	HCH	-13.009	8	PASS

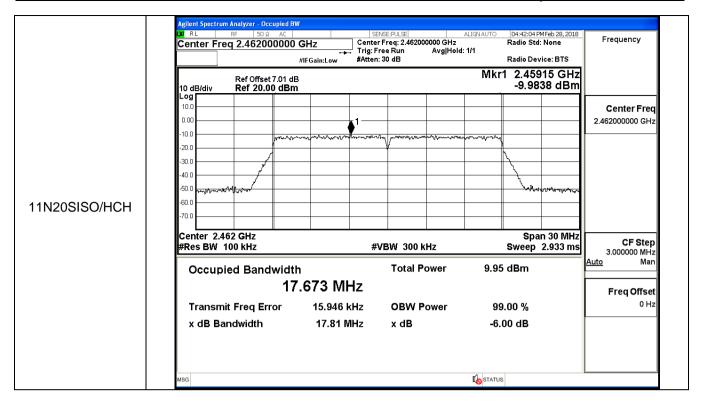




# B.4 6dB Bandwidth

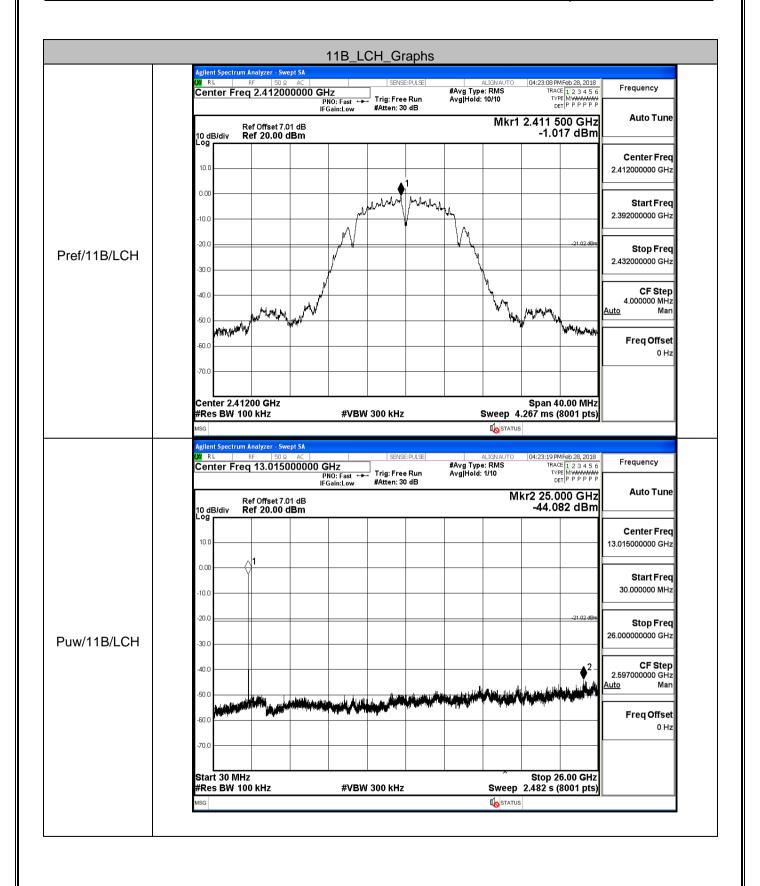
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	9.156	≥0.5	PASS
11B	MCH	9.154	≥0.5	PASS
	НСН	9.152	≥0.5	PASS
	LCH	16.60	≥0.5	PASS
11G	MCH	16.62	≥0.5	PASS
	НСН	16.61	≥0.5	PASS
	LCH	17.82	≥0.5	PASS
11N20SISO	MCH	17.84	≥0.5	PASS
	HCH	17.81	≥0.5	PASS

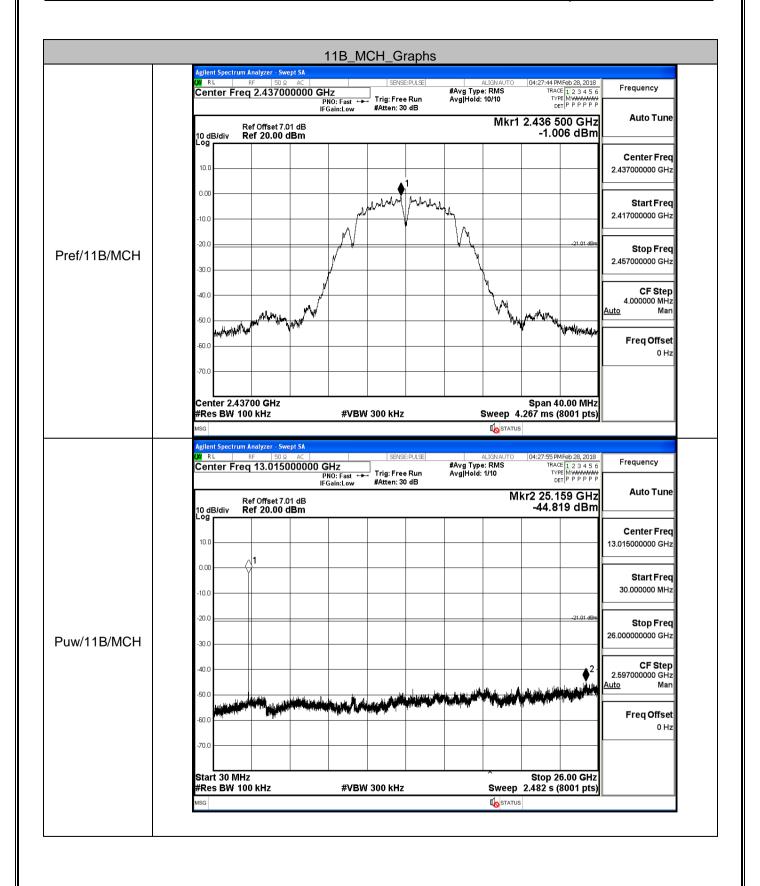


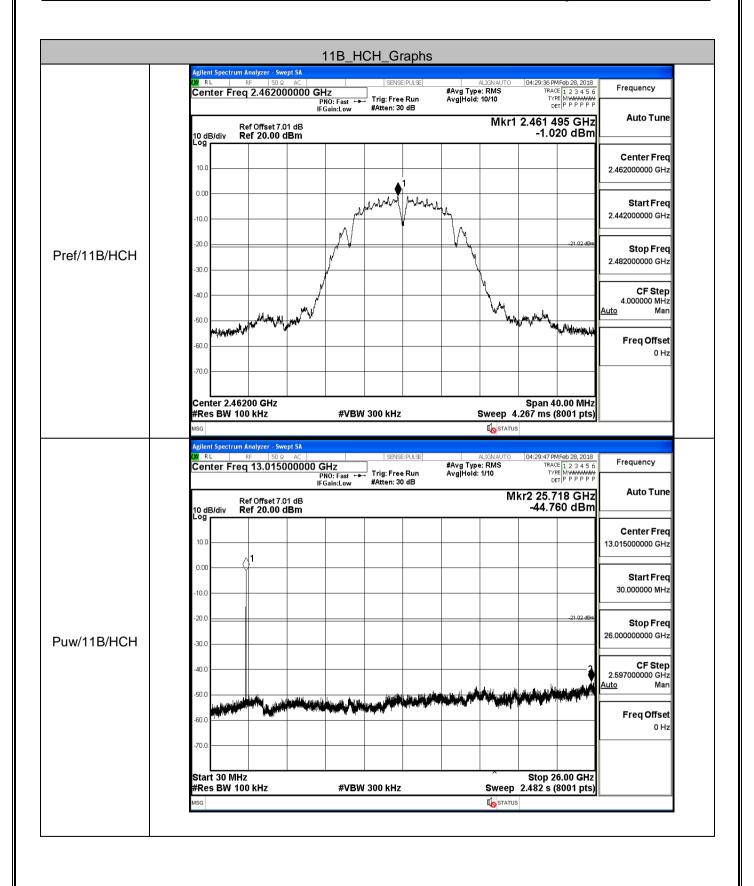


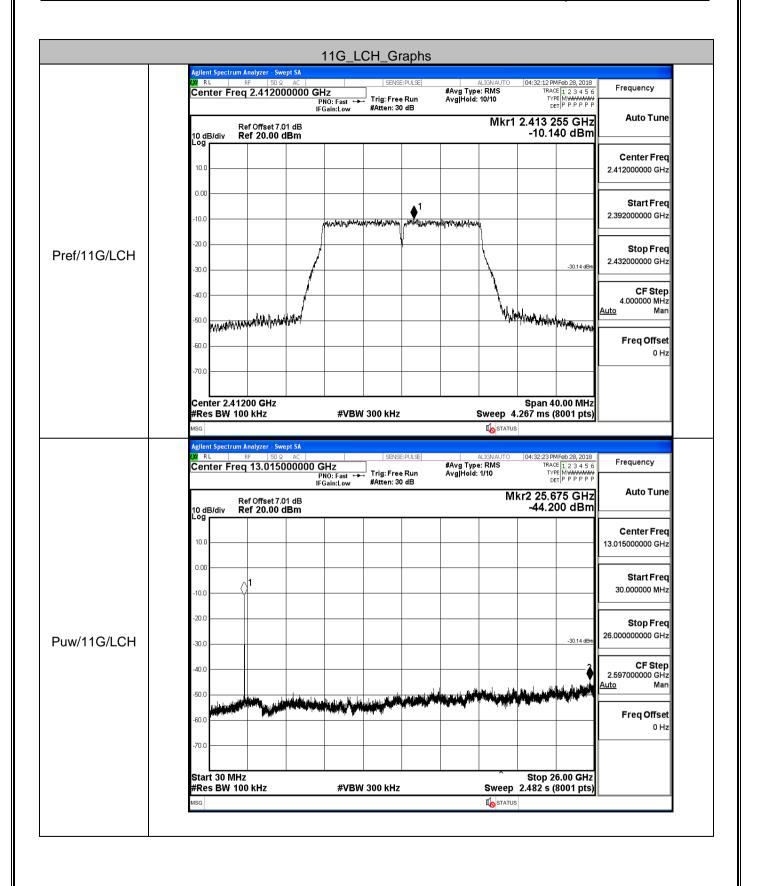
## **B.5 RF Conducted Spurious Emissions**

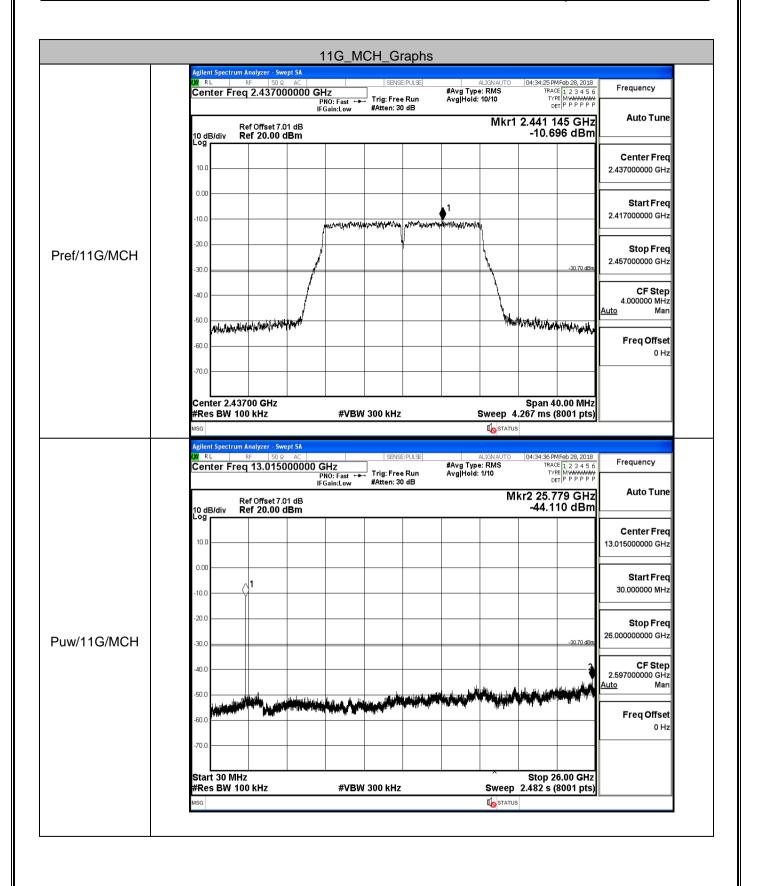
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBc]	Verdict
	LCH	-1.017	-44.082	-20	PASS
11B	MCH	-1.006	-44.819	-20	PASS
	НСН	-1.020	-44.760	-20	PASS
	LCH	-10.140	-44.200	-20	PASS
11G	MCH	-10.696	-44.110	-20	PASS
	НСН	-10.998	-44.568	-20	PASS
11N20SISO	LCH	-9.821	-43.436	-20	PASS
	MCH	-10.506	-44.442	-20	PASS
	HCH	-10.478	-43.834	-20	PASS

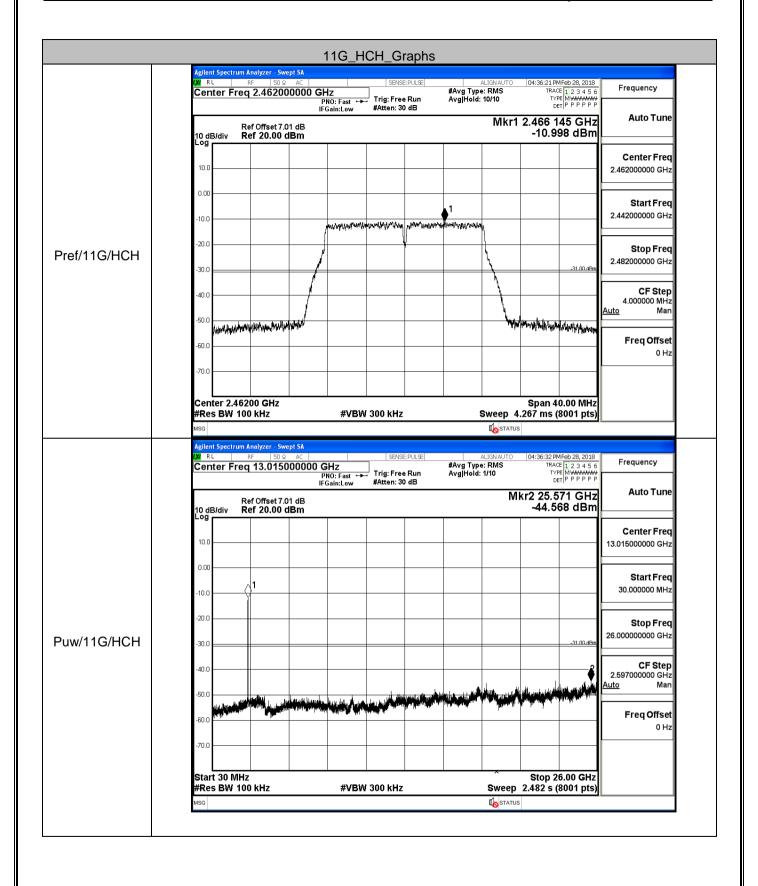


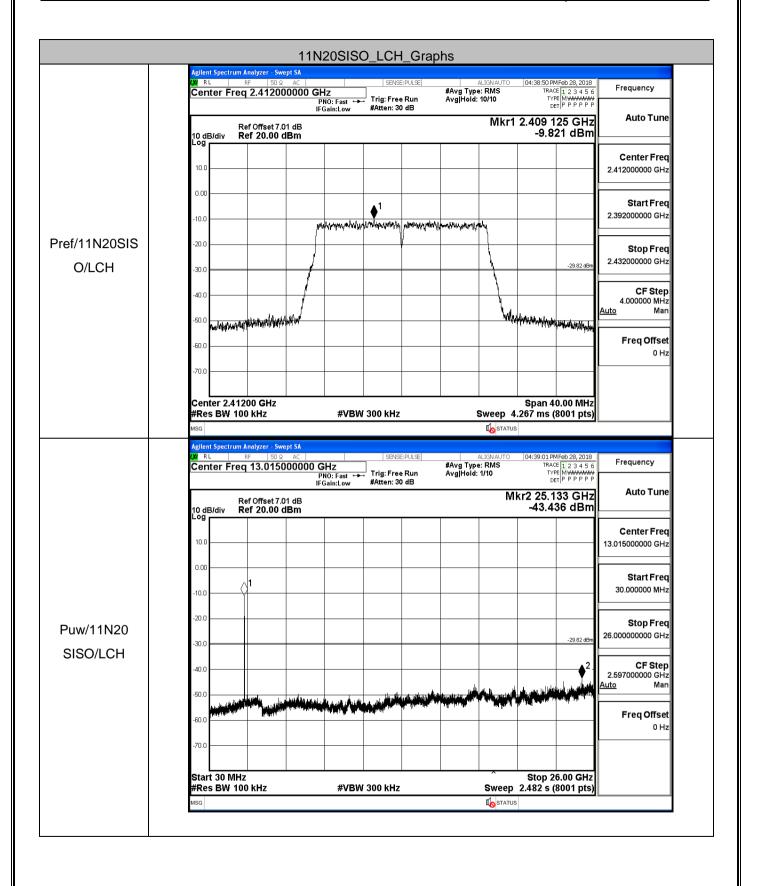


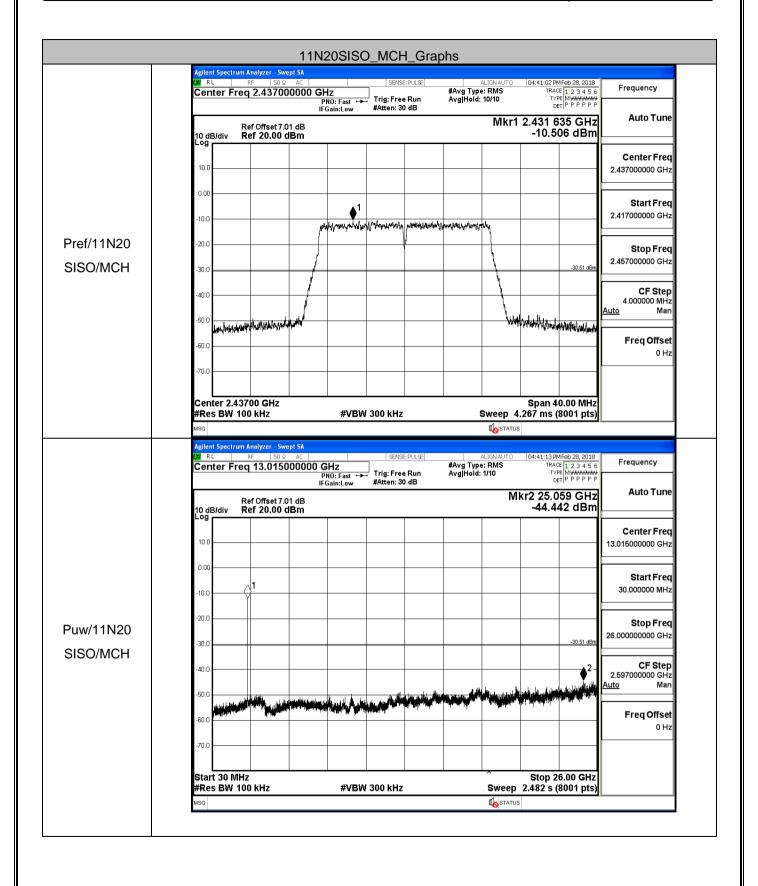


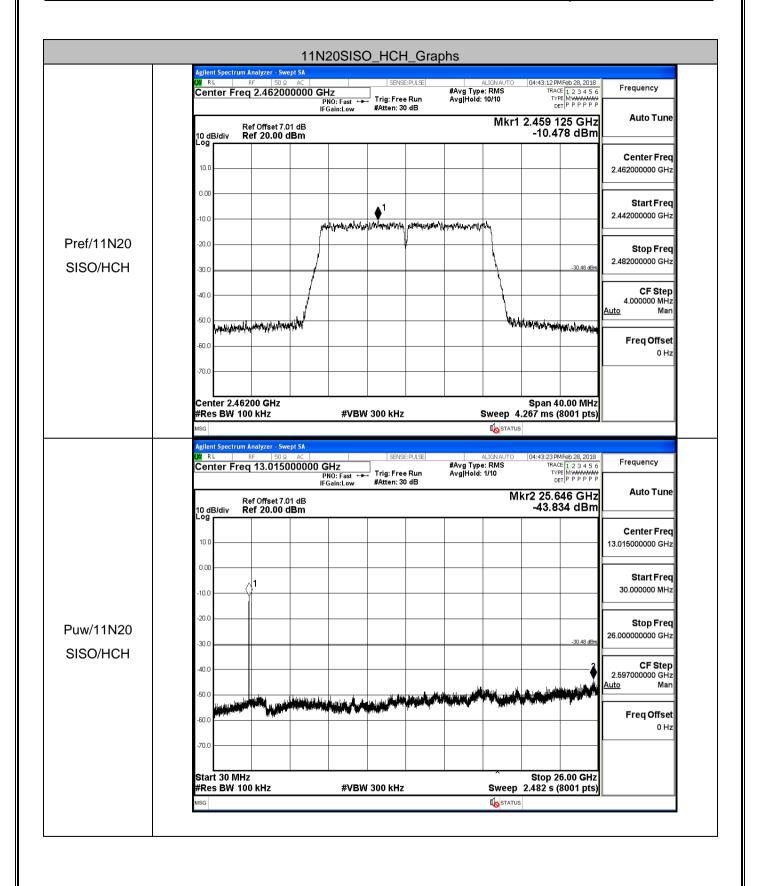






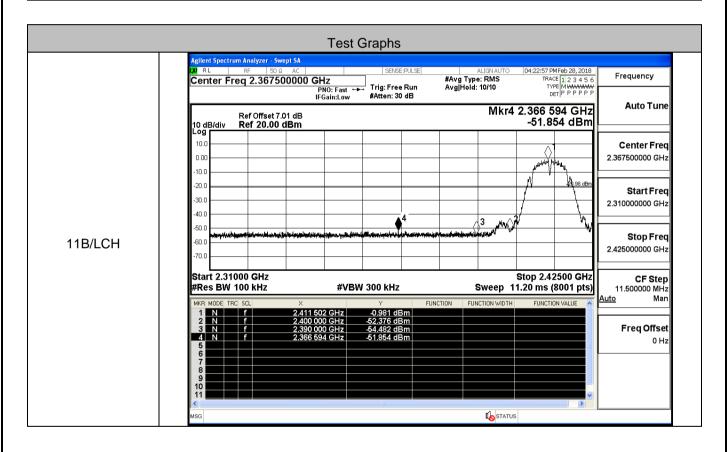


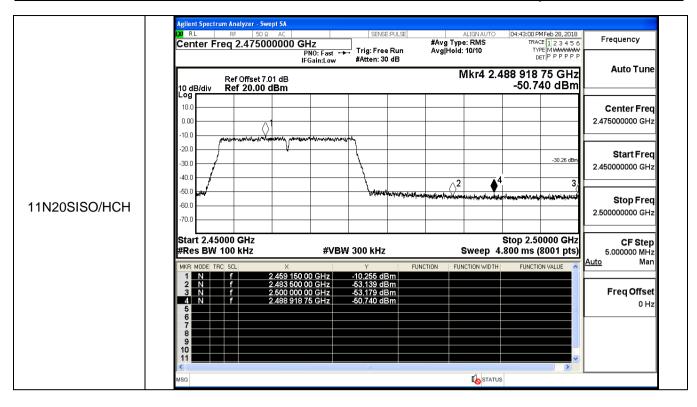




### **B.6 Band-edge for RF Conducted Emissions**

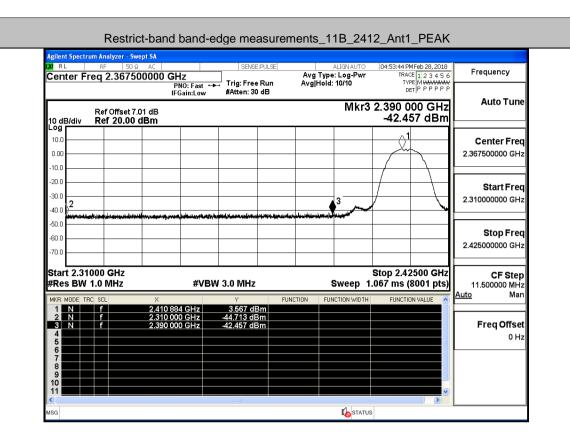
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
115	LCH	-0.981	-51.854	-20.98	PASS
11B	HCH	-0.943	-51.493	-20.94	PASS
	LCH	-9.854	-50.462	-29.85	PASS
11G	HCH	-10.906	-50.902	-30.91	PASS
	LCH	-10.104	-50.855	-30.10	PASS
11N20SISO	HCH	-10.255	-50.740	-30.26	PASS



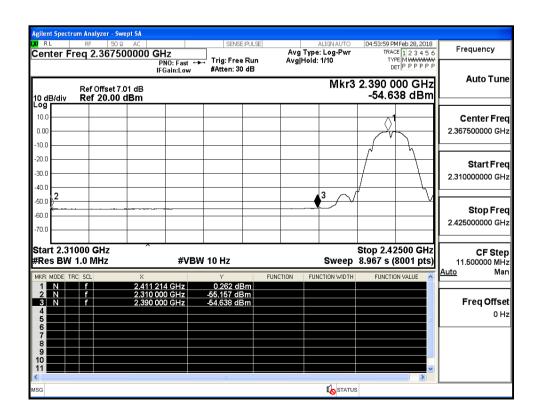


# **B.7 Restrict-band band-edge measurements**

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	2412	Ant1	2310.0	-44.71	3.0	0	53.52	PEAK	74	PASS
	2412	Ant1	2310.0	-55.16	3.0	0	43.07	AV	54	PASS
	2412	Ant1	2390.0	-42.46	3.0	0	55.77	PEAK	74	PASS
	2412	Ant1	2390.0	-54.64	3.0	0	43.59	AV	54	PASS
11B	2462	Ant1	2483.5	-44.58	3.0	0	53.65	PEAK	74	PASS
	2462	Ant1	2483.5	-54.56	3.0	0	43.67	AV	54	PASS
	2462	Ant1	2500.0	-42.85	3.0	0	55.38	PEAK	74	PASS
	2462	Ant1	2500.0	-54.48	3.0	0	43.75	AV	54	PASS
	2412	Ant1	2310.0	-43.78	3.0	0	54.45	PEAK	74	PASS
	2412	Ant1	2310.0	-55.15	3.0	0	43.08	AV	54	PASS
	2412	Ant1	2390.0	-44.06	3.0	0	54.17	PEAK	74	PASS
	2412	Ant1	2390.0	-53.81	3.0	0	44.42	AV	54	PASS
11G	2462	Ant1	2483.5	-43.71	3.0	0	54.52	PEAK	74	PASS
	2462	Ant1	2483.5	-54.06	3.0	0	44.17	AV	54	PASS
	2462	Ant1	2500.0	-43.58	3.0	0	54.65	PEAK	74	PASS
	2462	Ant1	2500.0	-54.23	3.0	0	44.00	AV	54	PASS
	2412	Ant1	2310.0	-43.15	3.0	0	55.08	PEAK	74	PASS
	2412	Ant1	2310.0	-55.14	3.0	0	43.09	AV	54	PASS
	2412	Ant1	2390.0	-40.88	3.0	0	57.35	PEAK	74	PASS
11N20	2412	Ant1	2390.0	-53.50	3.0	0	44.73	AV	54	PASS
SISO	2462	Ant1	2483.5	-43.92	3.0	0	54.31	PEAK	74	PASS
	2462	Ant1	2483.5	-53.90	3.0	0	44.33	AV	54	PASS
	2462	Ant1	2500.0	-44.00	3.0	0	54.23	PEAK	74	PASS
	2462	Ant1	2500.0	-54.25	3.0	0	43.98	AV	54	PASS

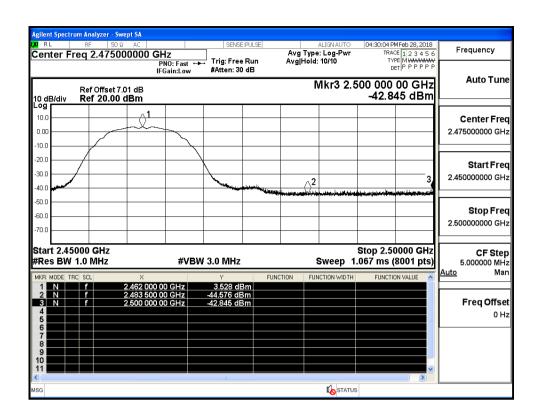


#### Restrict-band band-edge measurements\_11B\_2412\_Ant1\_AV

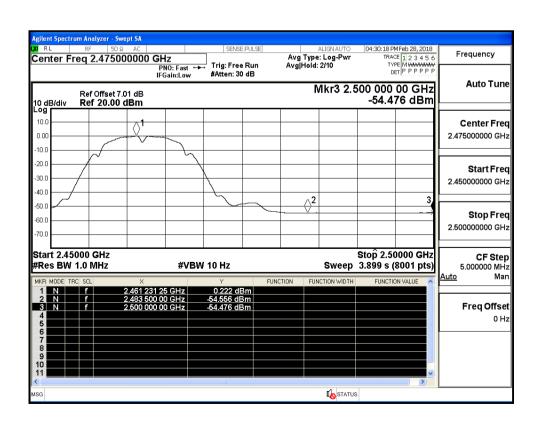


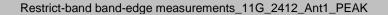
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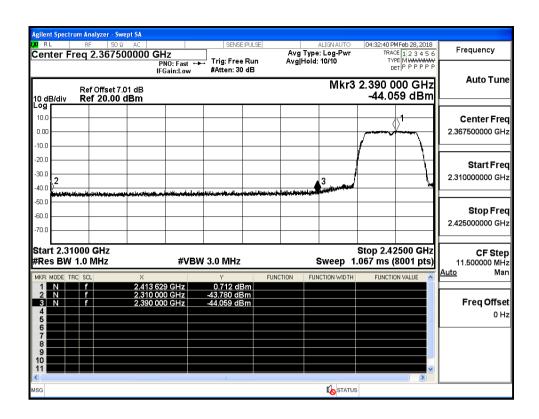
### Restrict-band band-edge measurements\_11B\_2462\_Ant1\_PEAK



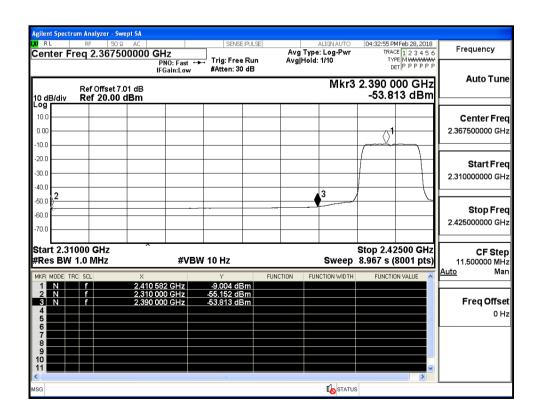
#### Restrict-band band-edge measurements\_11B\_2462\_Ant1\_AV



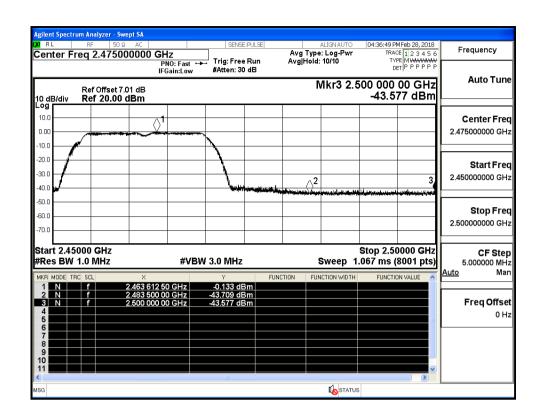




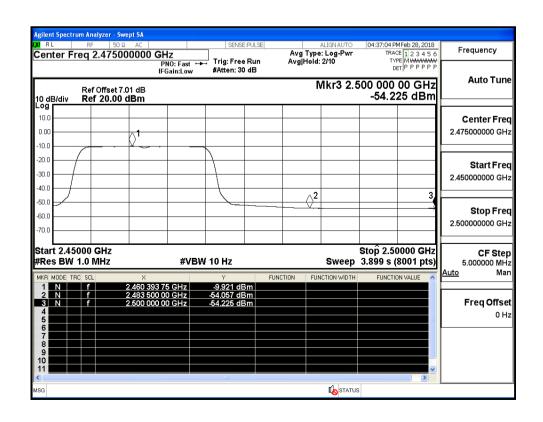
### Restrict-band band-edge measurements\_11G\_2412\_Ant1\_AV

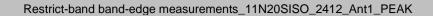


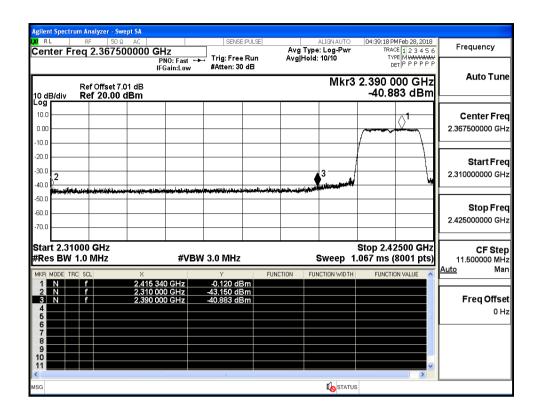
### Restrict-band band-edge measurements\_11G\_2462\_Ant1\_PEAK



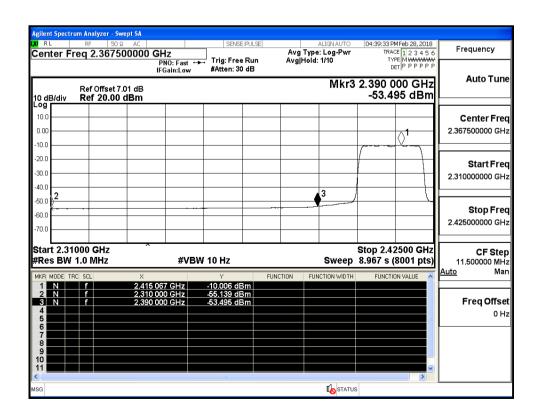
### Restrict-band band-edge measurements\_11G\_2462\_Ant1\_AV

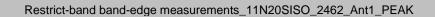


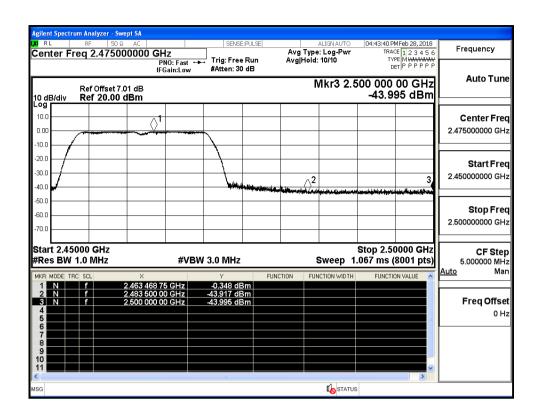




#### Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_AV







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

