# Appendix A

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

Product Name: HD WIFI CAMERA

Trade Mark: E-matic

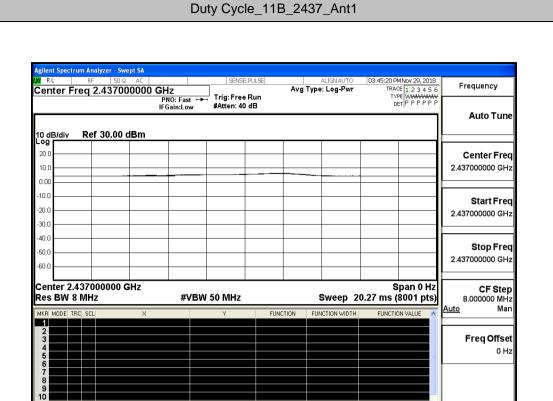
Test Model: EPWB1402

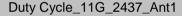
#### **Environmental Conditions**

Temperature:	23.5 ° C					
Relative Humidity:	52.6%					
ATM Pressure:	100.0 kPa					
Test Engineer:	Mina.Xu					
Supervised by:	Jayden.Zhuo					

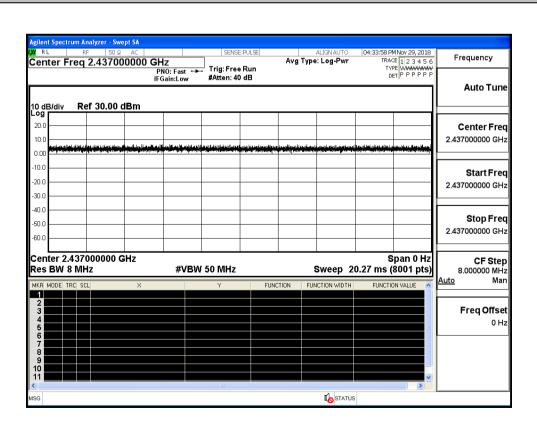
## A.1 Duty Cycle

Test Mode	Test Mode Test Channel		Duty Cycle[%]	Verdict
11B 2437		Ant1	100	PASS
11G	G 2437		100	PASS
11N20SISO	2437	Ant1	100	PASS
11N40SISO	2437	Ant1	100	PASS

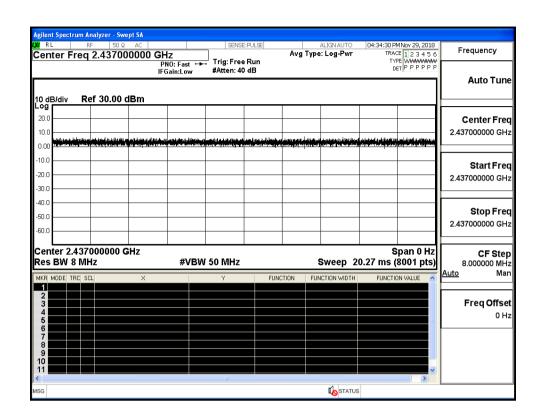




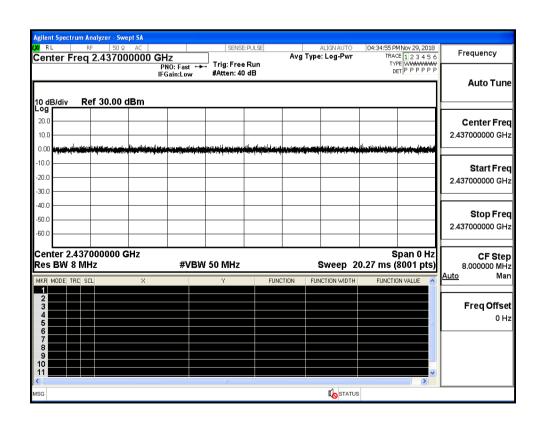
STATUS



#### Duty Cycle\_11N20SISO\_2437\_Ant1



#### Duty Cycle\_11N40SISO\_2437\_Ant1

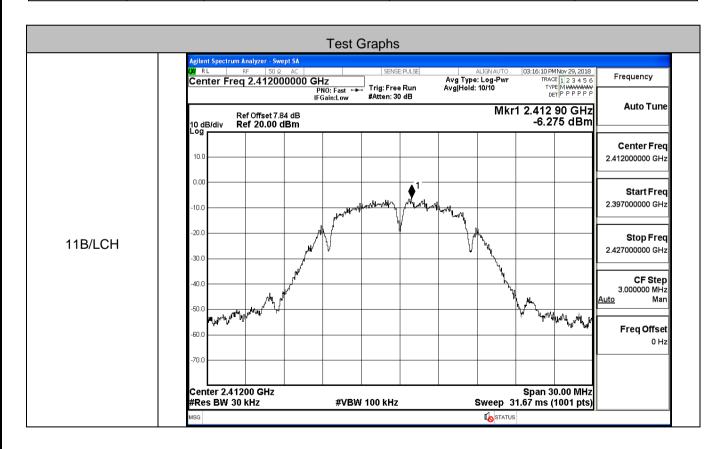


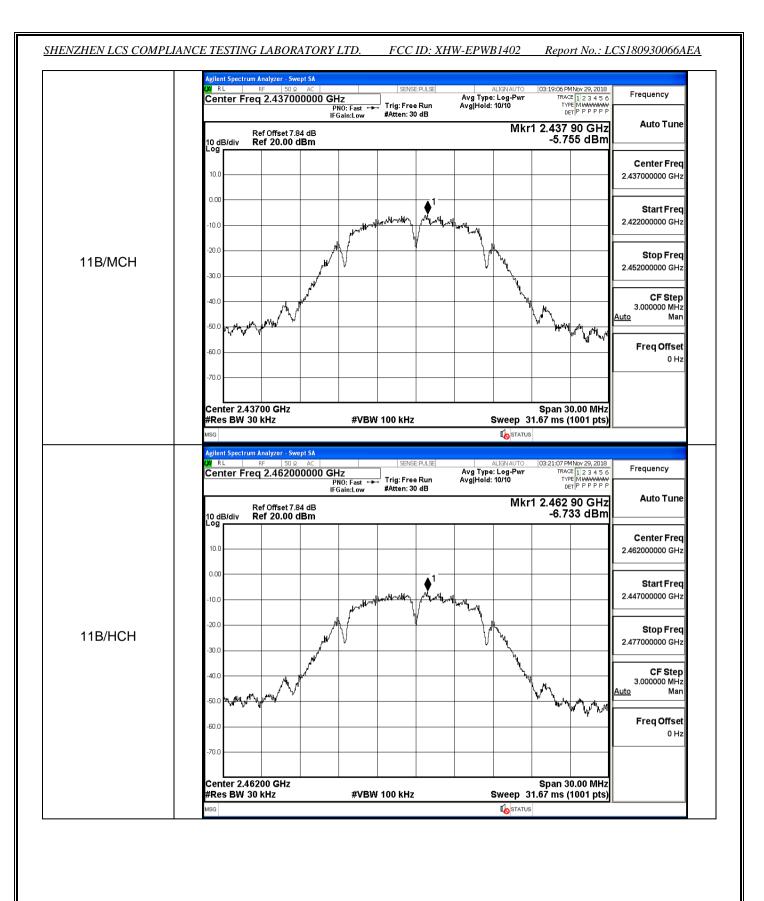
## **A.2 Maximum Conducted Output Power**

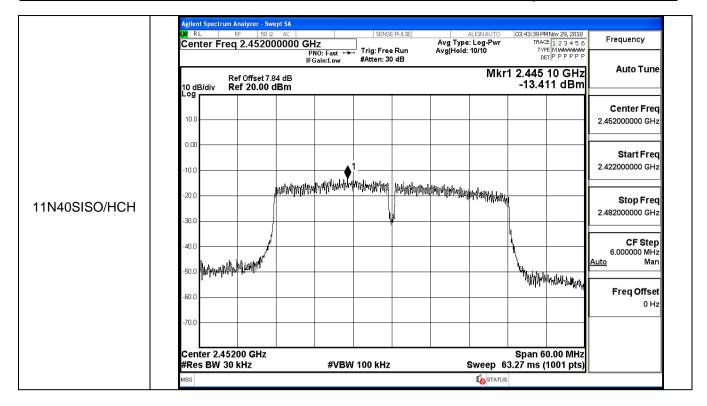
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
	LCH	11.81	30	PASS
11B	MCH	12.23	30	PASS
	HCH	11.26	30	PASS
	LCH	13.79	30	PASS
11G	MCH	14.00	30	PASS
	HCH	13.05	30	PASS
	LCH	14.61	30	PASS
11N20SISO	MCH	11.22	30	PASS
	HCH	13.10	30	PASS
	LCH	14.38	30	PASS
11N40SISO	MCH	14.01	30	PASS
	HCH	13.74	30	PASS

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

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
	LCH	-6.275	8	PASS
11B	MCH	-5.755	8	PASS
	HCH	-6.733	8	PASS
	LCH	-6.699	8	PASS
11G	MCH	-9.774	8	PASS
	HCH	-10.938	8	PASS
	LCH	-8.439	8	PASS
11N20SISO	MCH	-13.277	8	PASS
	HCH	-10.117	8	PASS
	LCH	-13.265	8	PASS
11N40SISO	MCH	-13.525	8	PASS
	НСН	-13.411	8	PASS

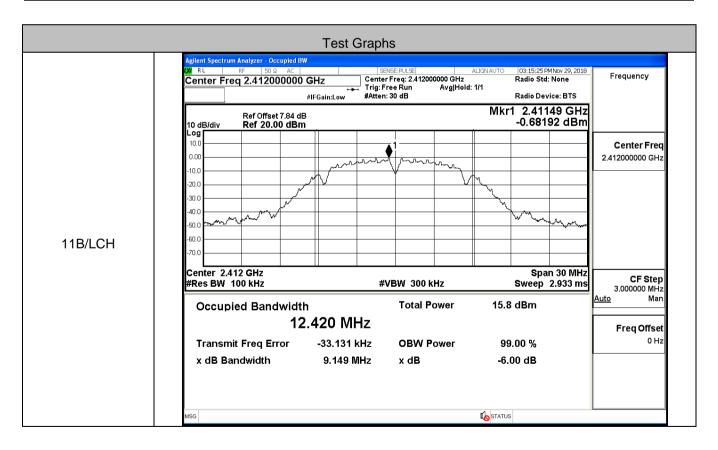






#### A.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	9.149	≥0.5	PASS
11B	MCH	9.149	≥0.5	PASS
	HCH	9.154	≥0.5	PASS
	LCH	16.40	≥0.5	PASS
11G	MCH	16.41	≥0.5	PASS
	HCH	16.40	≥0.5	PASS
	LCH	17.61	≥0.5	PASS
11N20SISO	MCH	17.81	≥0.5	PASS
	HCH	17.62	≥0.5	PASS
	LCH	36.14	≥0.5	PASS
11N40SISO	MCH	35.77	≥0.5	PASS
	HCH	35.75	≥0.5	PASS



35.75 MHz

x dB

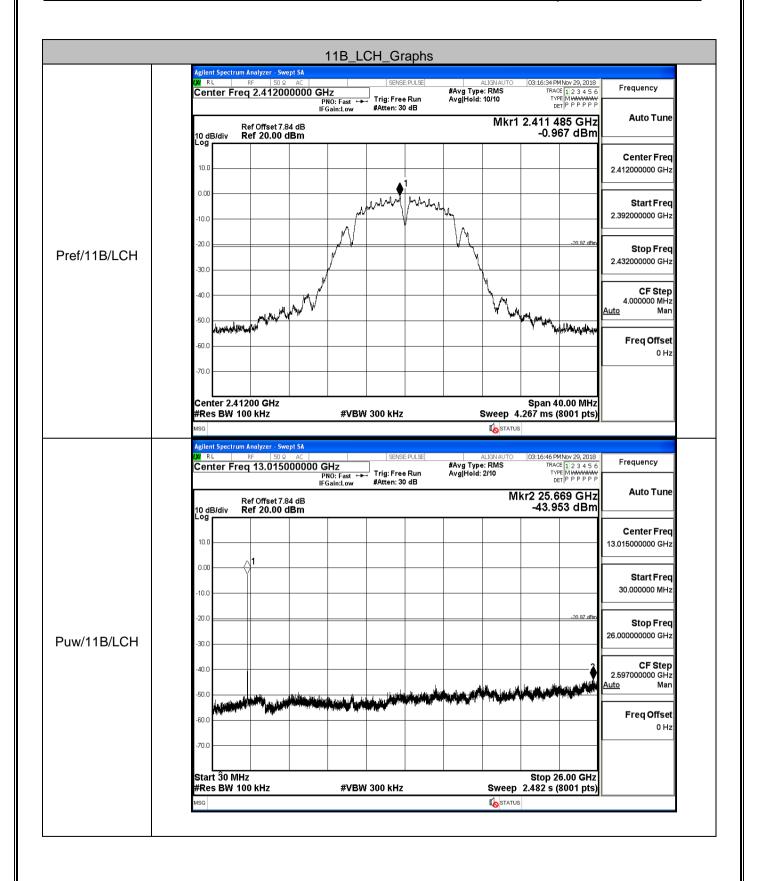
-6.00 dB

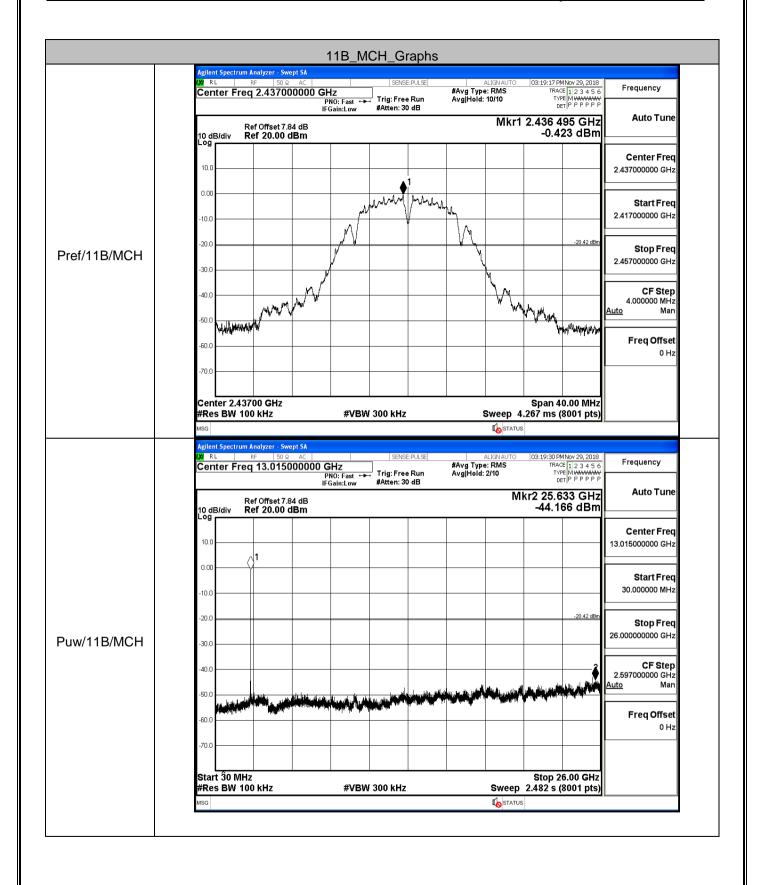
STATUS

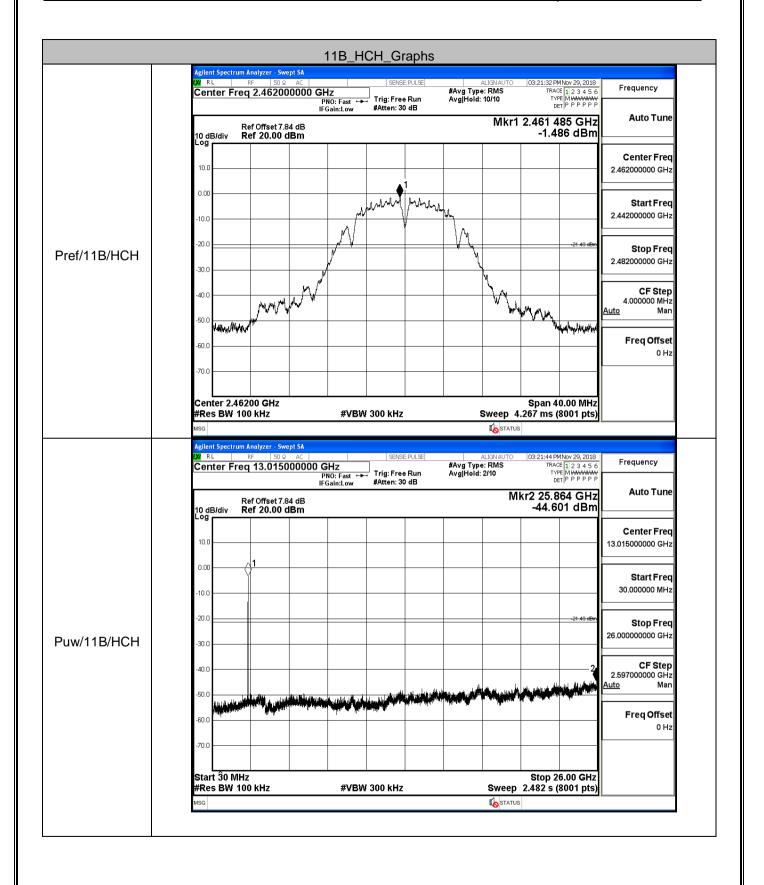
x dB Bandwidth

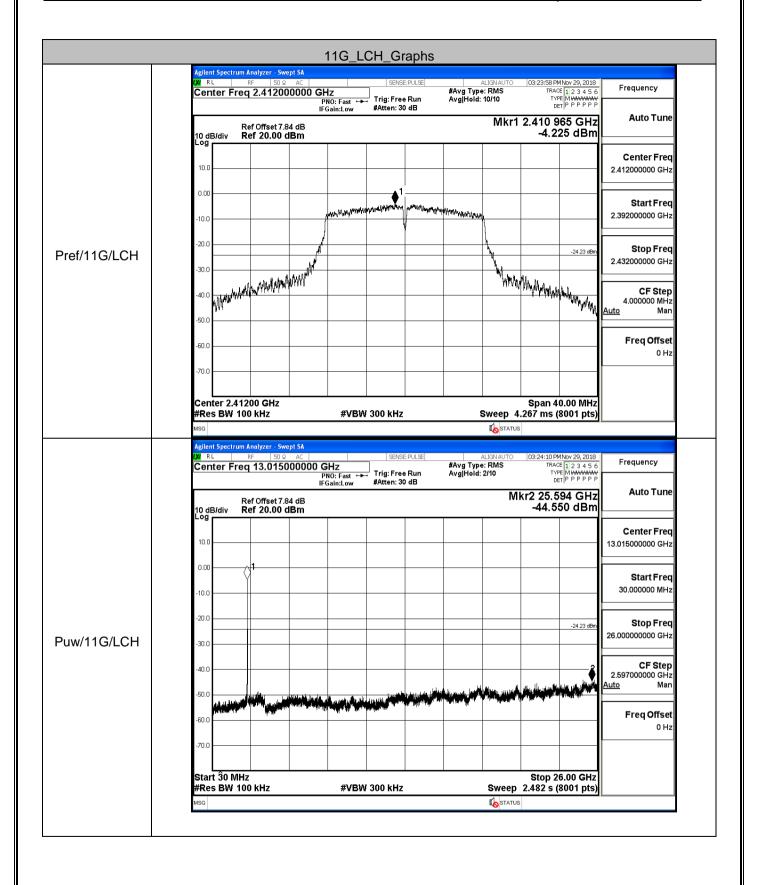
## A.5 RF Conducted Spurious Emissions

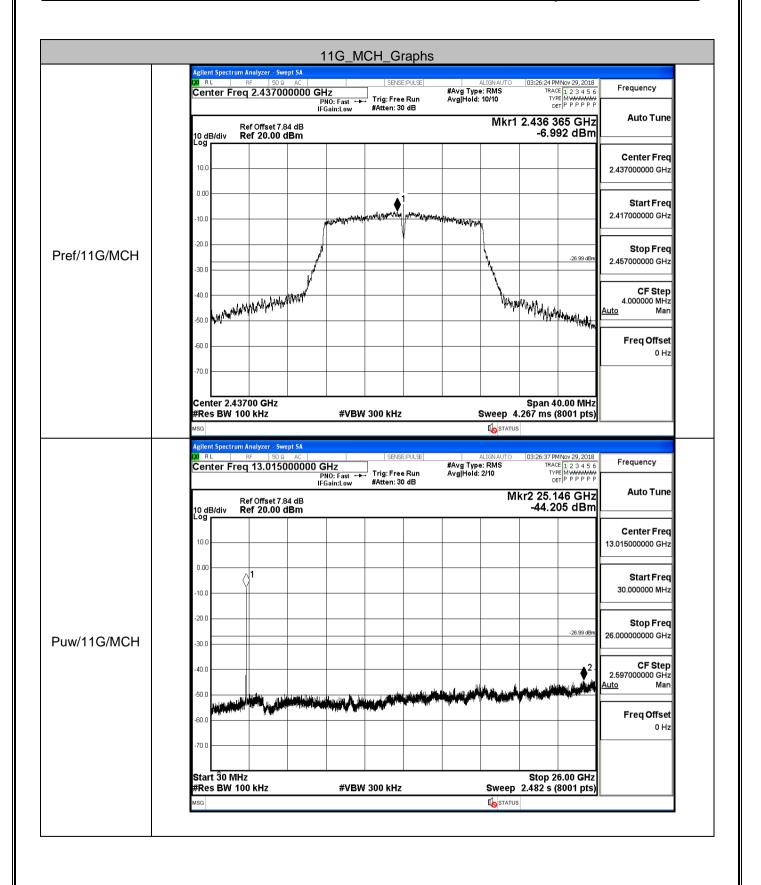
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	-0.967	-43.953	-20.967	PASS
11B	MCH	-0.423	-44.166	-20.423	PASS
	HCH	-1.486	-44.601	-21.486	PASS
	LCH	-4.225	-44.550	-24.225	PASS
11G	MCH	-6.992	-44.205	-26.992	PASS
	HCH	-7.894	-44.456	-27.894	PASS
	LCH	-6.544	-44.603	-26.544	PASS
11N20SISO	MCH	-10.489	-43.448	-30.489	PASS
	HCH	-8.03	-42.875	-28.030	PASS
	LCH	-10.304	-44.132	-30.304	PASS
11N40SISO	MCH	-10.334	-43.839	-30.334	PASS
	НСН	-10.452	-42.885	-30.452	PASS

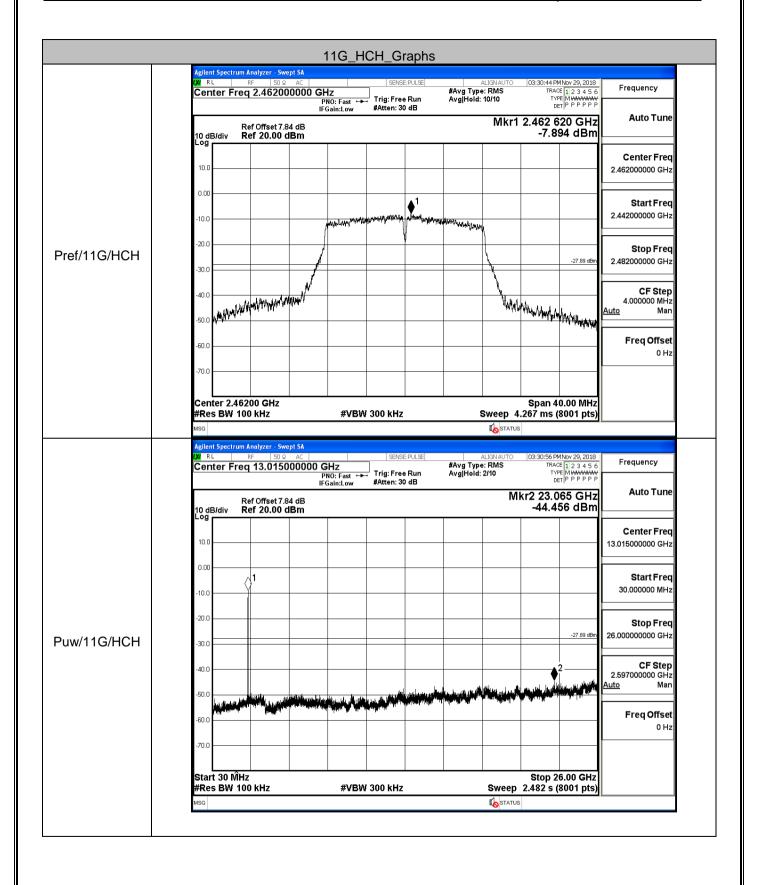


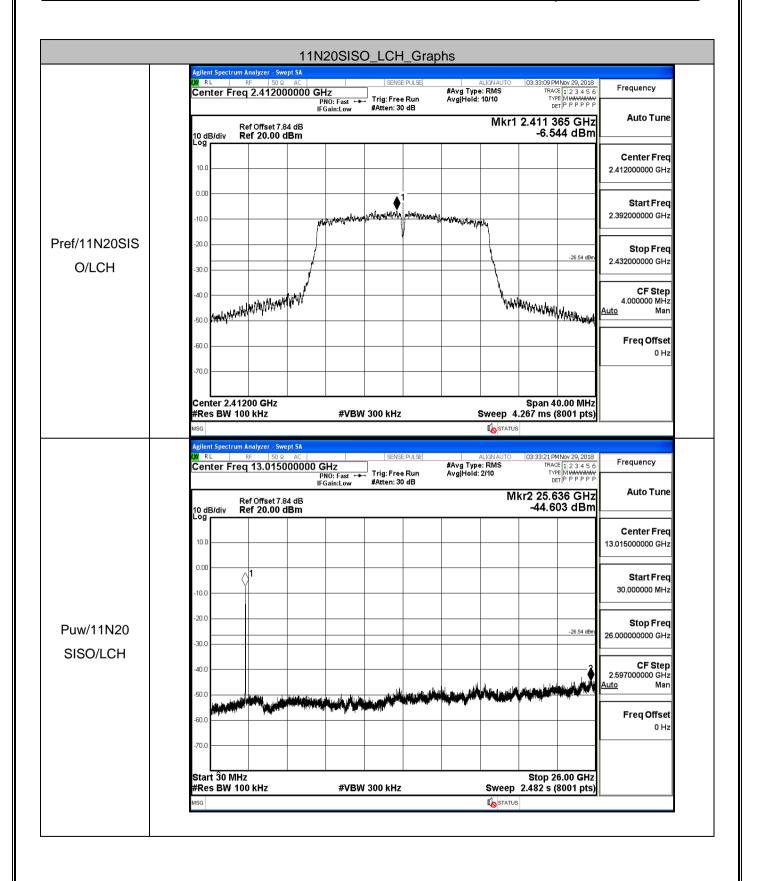


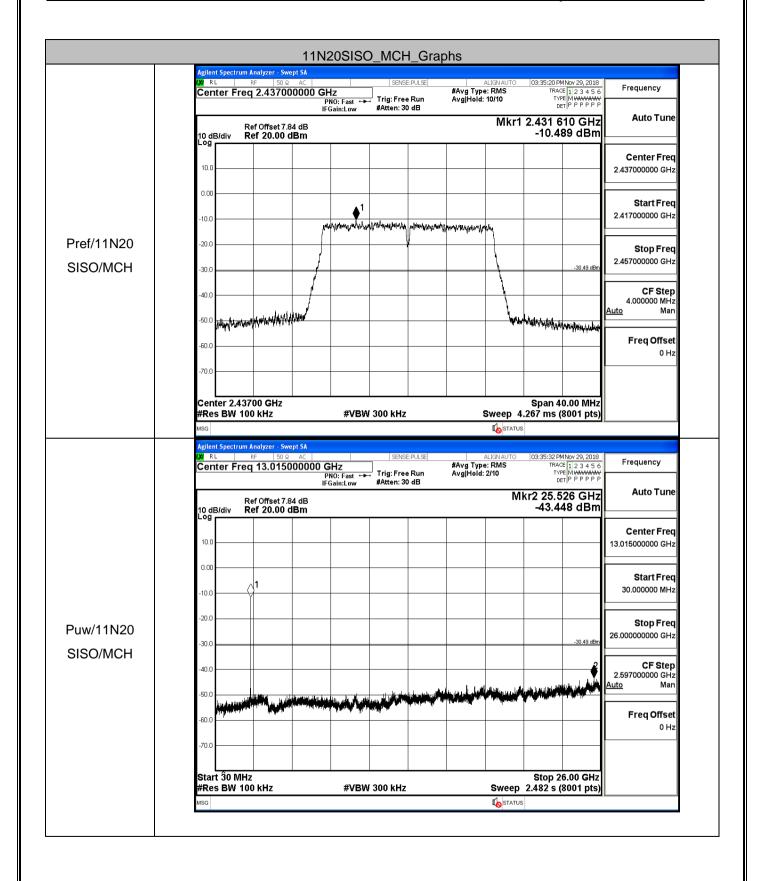


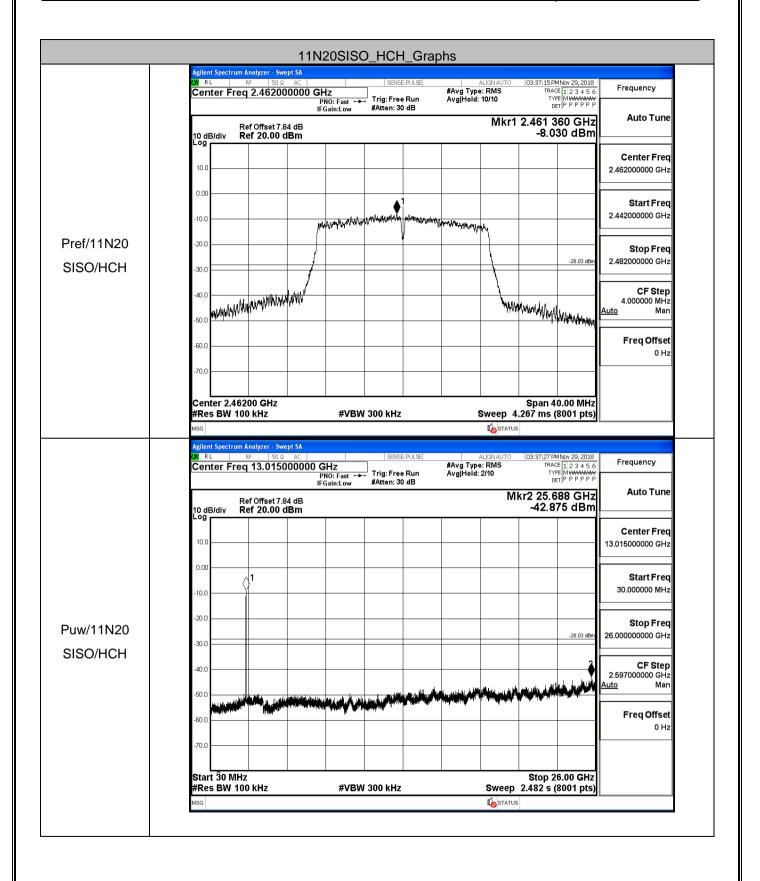


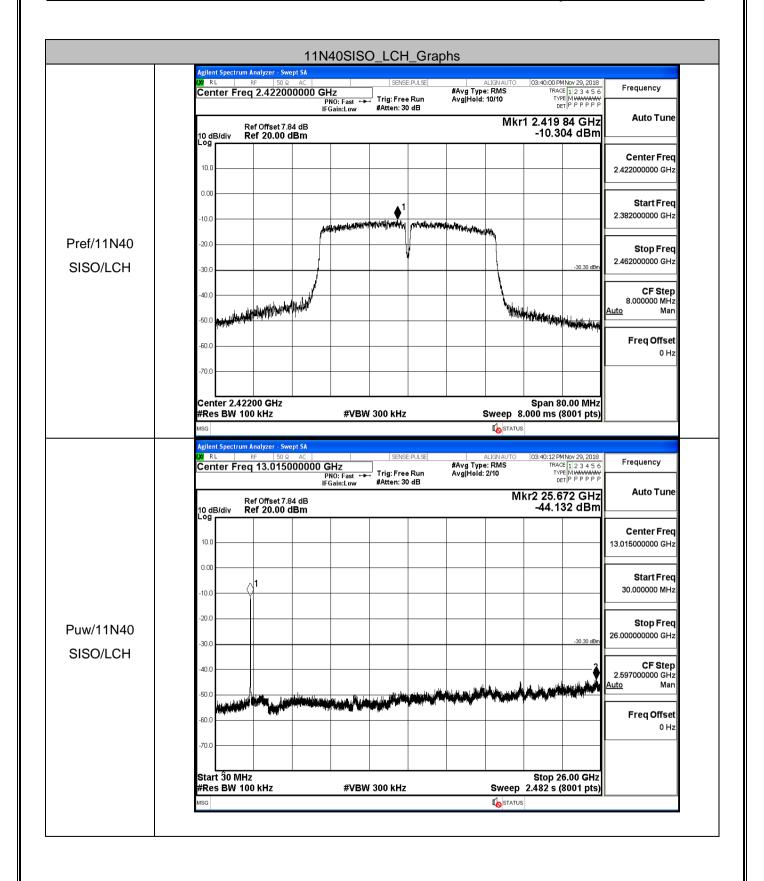


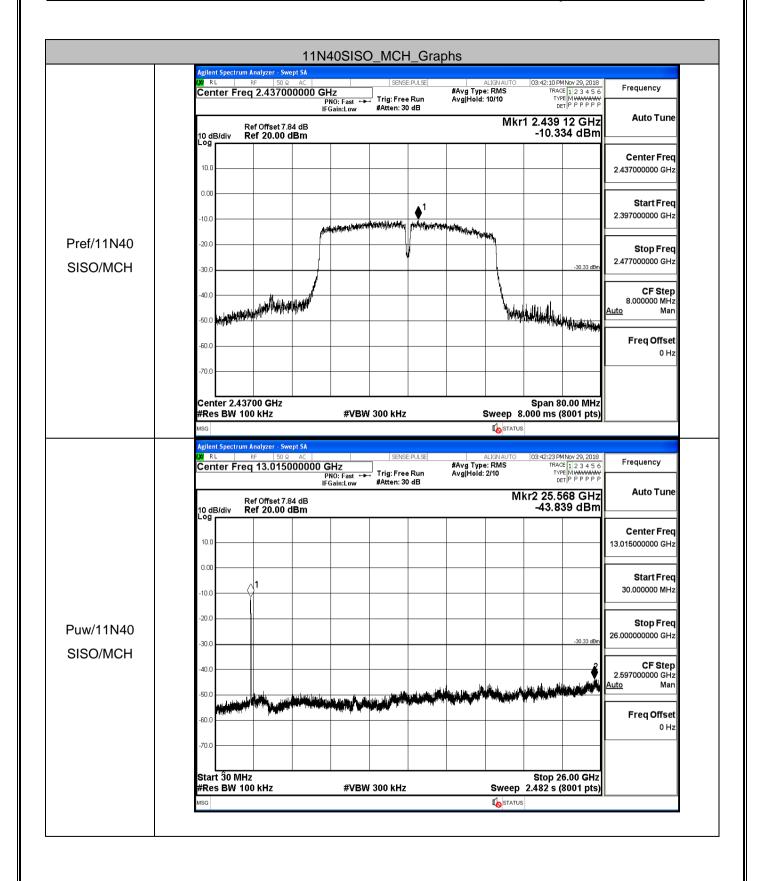


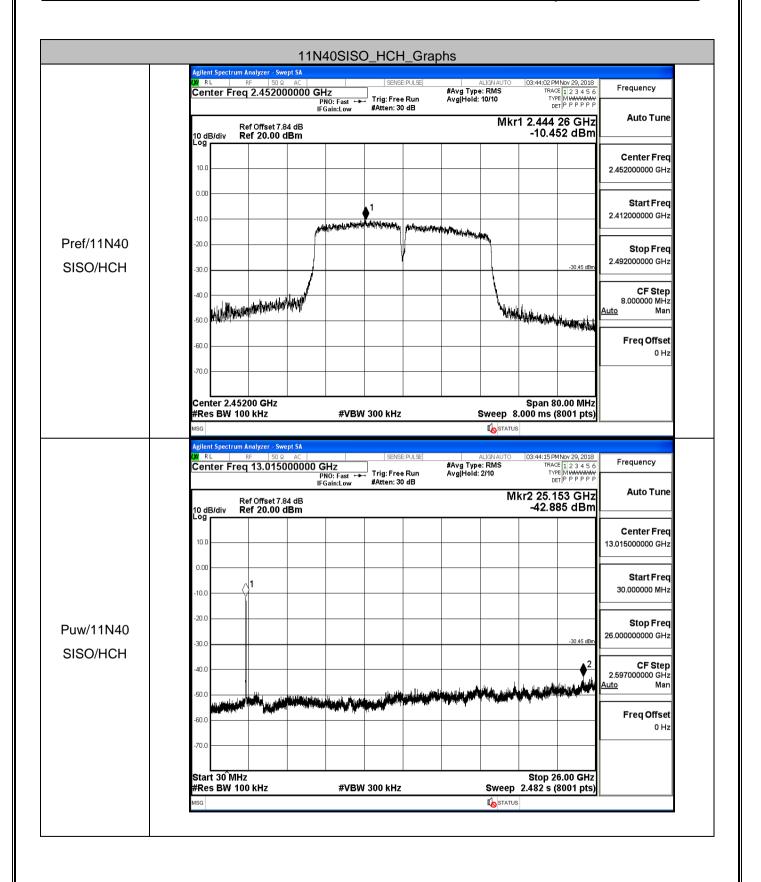






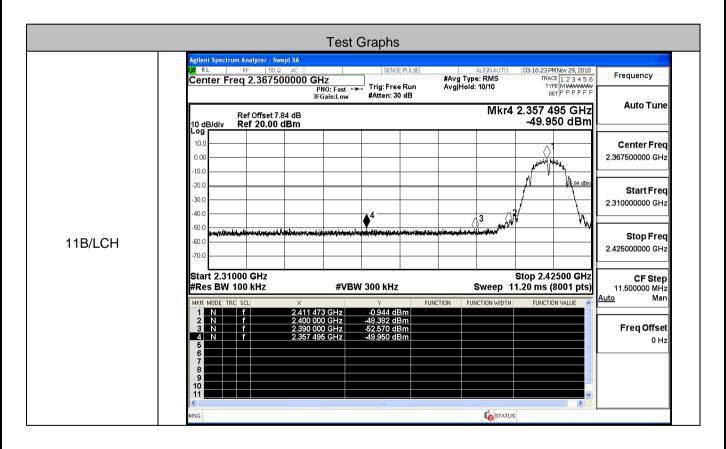


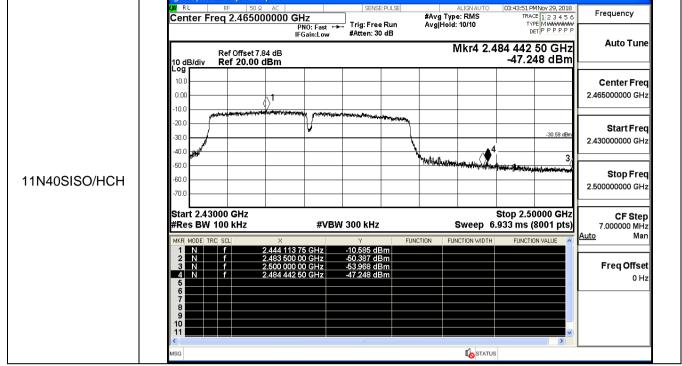




### A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
4.45	LCH	-0.944	-49.950	-20.94	PASS
11B	HCH	-1.402	-50.734	-21.4	PASS
	LCH	-4.150	-44.028	-24.15	PASS
11G	HCH	-7.844	-50.168	-27.84	PASS
	LCH	-6.315	-49.541	-26.32	PASS
11N20SISO	HCH	-7.721	-49.869	-27.72	PASS
	LCH	-10.291	-45.486	-30.29	PASS
11N40SISO	HCH	-10.585	-47.248	-30.59	PASS

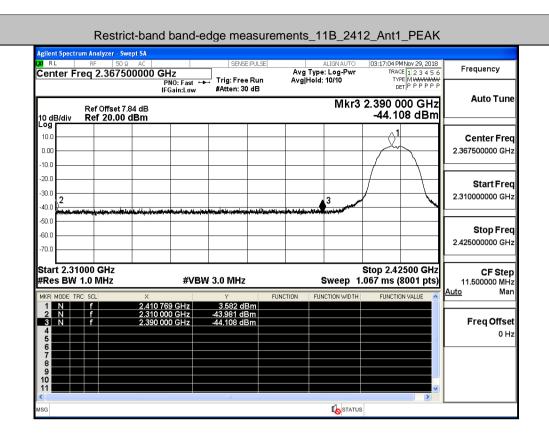


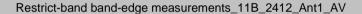


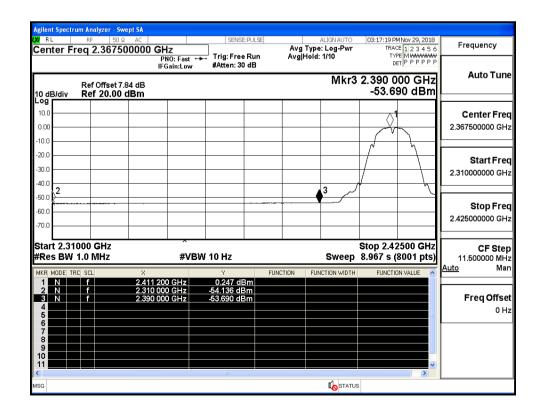
# A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
	2412	Ant1	2310.0	-43.98	2.0	0	53.28	PEAK	74	PASS
	2412	Ant1	2310.0	-54.14	2.0	0	43.12	AV	54	PASS
	2412	Ant1	2390.0	-44.11	2.0	0	53.15	PEAK	74	PASS
445	2412	Ant1	2390.0	-53.69	2.0	0	43.57	AV	54	PASS
11B	2462	Ant1	2483.5	-42.19	2.0	0	55.07	PEAK	74	PASS
	2462	Ant1	2483.5	-53.51	2.0	0	43.74	AV	54	PASS
	2462	Ant1	2500.0	-42.38	2.0	0	54.88	PEAK	74	PASS
	2462	Ant1	2500.0	-53.47	2.0	0	43.79	AV	54	PASS
	2412	Ant1	2310.0	-41.78	2.0	0	55.48	PEAK	74	PASS
	2412	Ant1	2310.0	-54.01	2.0	0	43.25	AV	54	PASS
	2412	Ant1	2390.0	-32.58	2.0	0	64.68	PEAK	74	PASS
	2412	Ant1	2390.0	-48.03	2.0	0	49.23	AV	54	PASS
11G	2462	Ant1	2483.5	-42.50	2.0	0	54.75	PEAK	74	PASS
	2462	Ant1	2483.5	-52.65	2.0	0	44.61	AV	54	PASS
	2462	Ant1	2500.0	-43.14	2.0	0	54.12	PEAK	74	PASS
	2462	Ant1	2500.0	-53.35	2.0	0	43.90	AV	54	PASS
	2412	Ant1	2310.0	-43.34	2.0	0	53.92	PEAK	74	PASS
	2412	Ant1	2310.0	-54.13	2.0	0	43.13	AV	54	PASS
	2412	Ant1	2390.0	-38.71	2.0	0	58.55	PEAK	74	PASS
11N20	2412	Ant1	2390.0	-51.49	2.0	0	45.76	AV	54	PASS
SISO	2462	Ant1	2483.5	-40.92	2.0	0	56.33	PEAK	74	PASS
	2462	Ant1	2483.5	-52.21	2.0	0	45.05	AV	54	PASS
	2462	Ant1	2500.0	-42.94	2.0	0	54.32	PEAK	74	PASS
	2462	Ant1	2500.0	-53.33	2.0	0	43.93	AV	54	PASS
11N40	2422	Ant1	2310.0	-44.26	2.0	0	53.00	PEAK	74	PASS
SISO	2422	Ant1	2310.0	-54.15	2.0	0	43.11	AV	54	PASS

S	<u>SHENZHEN L</u>	.CS COMP	<u>LIANCE</u>	TESTING LA	ABORATORY L	ГD. 1	FCC ID: XHW-EP	WB1402 I	Report No.: L	CS1809	30066AEA
		2422	Ant1	2390.0	-35.27	2.0	0	61.98	PEAK	74	PASS
		2722	Anti	2000.0	-33.21	2.0	0	01.30	ILAK	7 -	1 700
		2422	Ant1	2390.0	-47.95	2.0	0	49.30	AV	54	PASS
		2452	Ant1	2483.5	-37.83	2.0	0	59.42	PEAK	74	PASS
		2452	Ant1	2483.5	-50.45	2.0	0	46.81	AV	54	PASS
		2452	Ant1	2500.0	-42.67	2.0	0	54.58	PEAK	74	PASS
		2452	Ant1	2500.0	-53.23	2.0	0	44.03	AV	54	PASS

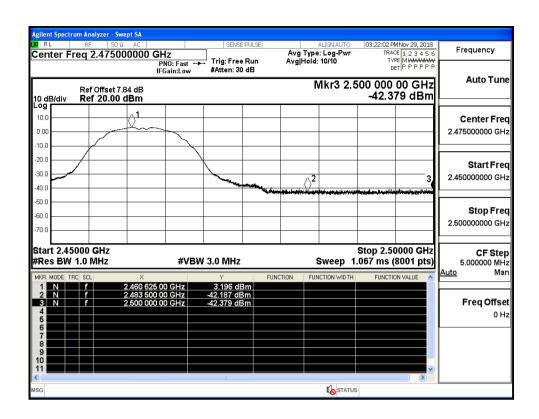




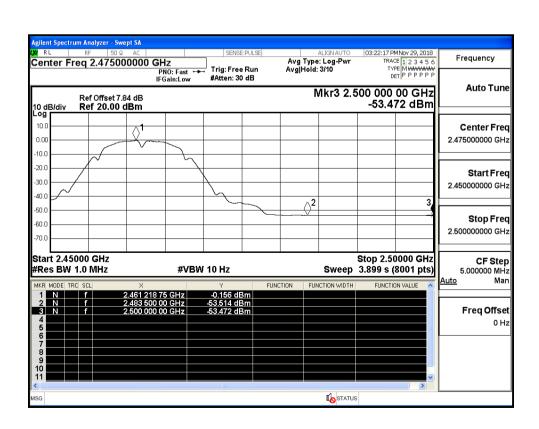


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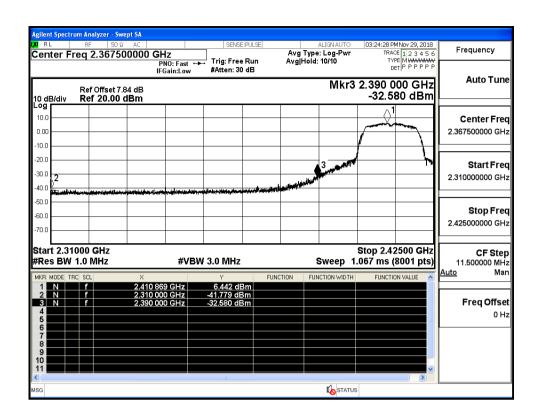
#### Restrict-band band-edge measurements\_11B\_2462\_Ant1\_PEAK



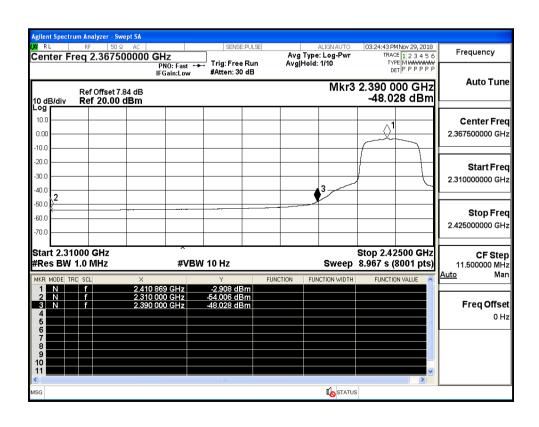
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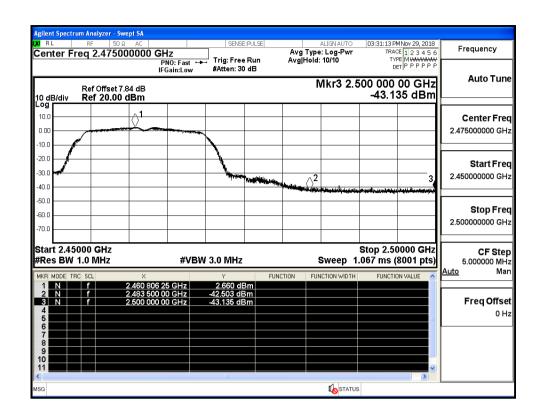
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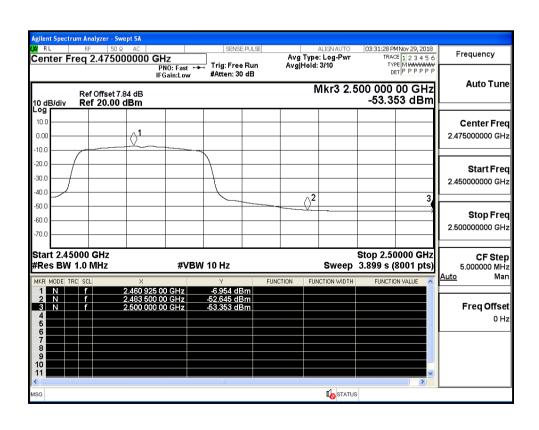
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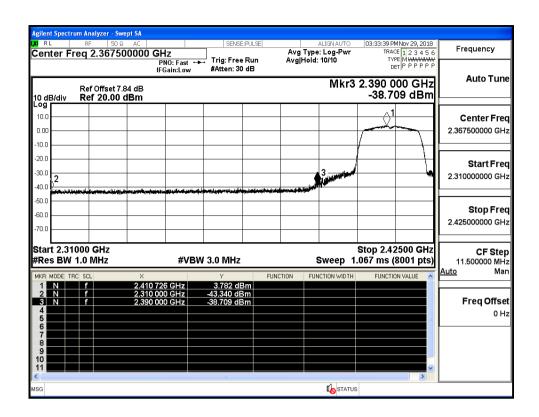
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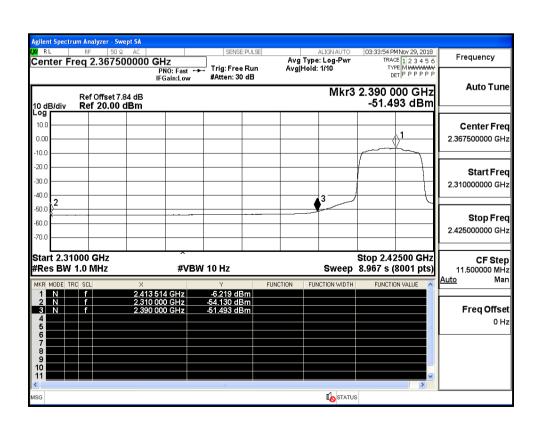
#### Restrict-band band-edge measurements\_11G\_2462\_Ant1\_AV



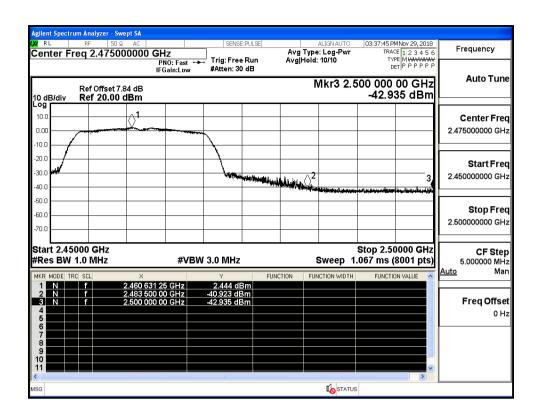
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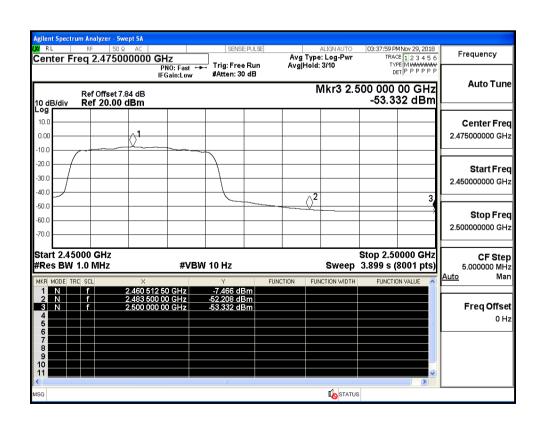
#### Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_AV



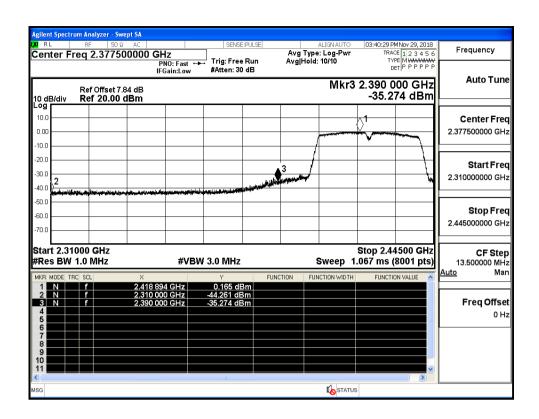
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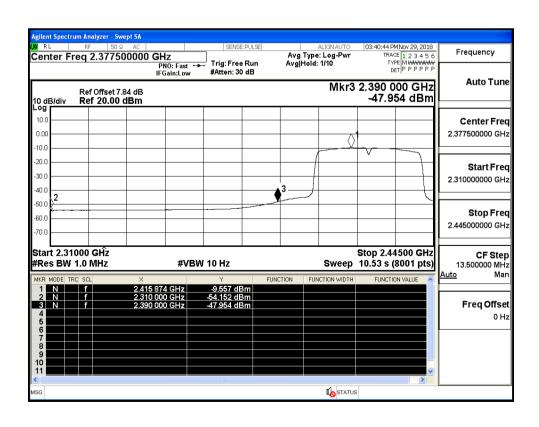
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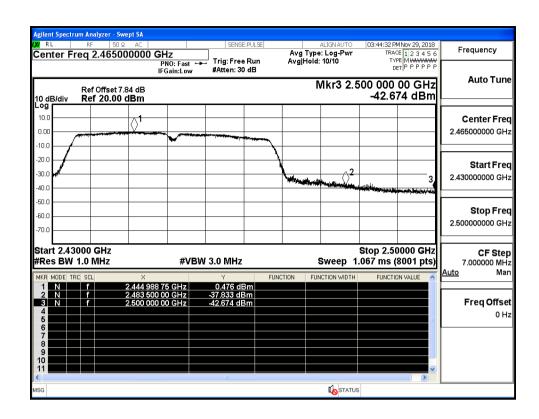
#### Restrict-band band-edge measurements\_11N40SISO\_2422\_Ant1\_PEAK



#### Restrict-band band-edge measurements\_11N40SISO\_2422\_Ant1\_AV



#### Restrict-band band-edge measurements\_11N40SISO\_2452\_Ant1\_PEAK



#### Restrict-band band-edge measurements\_11N40SISO\_2452\_Ant1\_AV

