Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

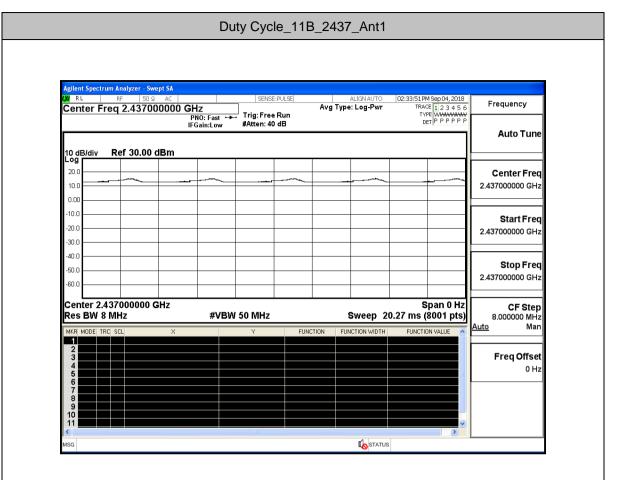
Product Name: Wi-Fi Smart Plug Trade Mark: atomi Test Model: AT1217

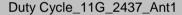
Environmental Conditions

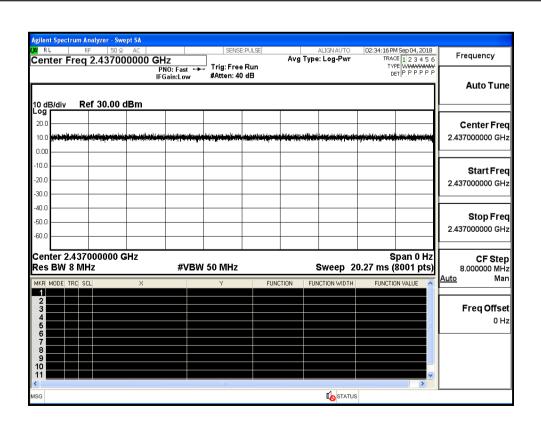
	 :	
	Temperature:	24.5 ° C
Relative Humidity: ATM Pressure: Test Engineer:		54.2%
		100.0 kPa
		Wilson.Hong
	Supervised by:	Jayden.Zhuo

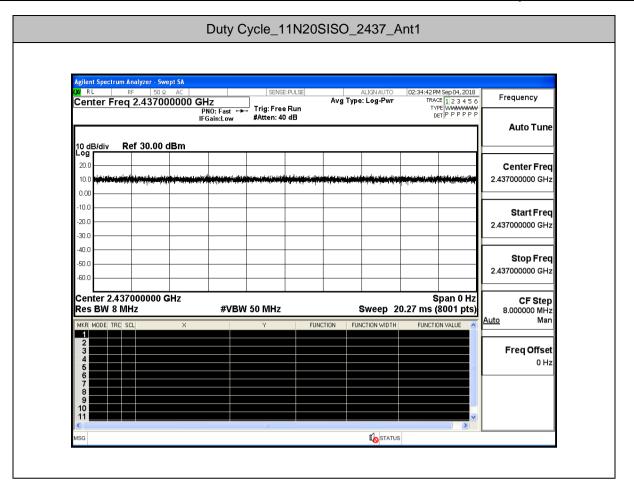
A.1 Duty Cycle

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







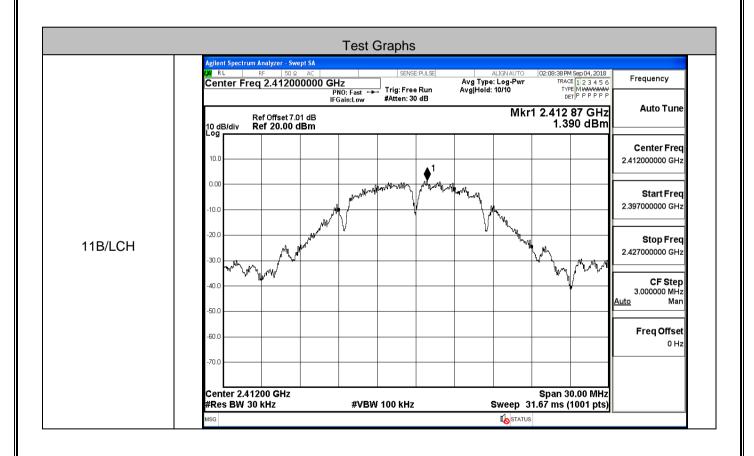


A.2 Maximum Conducted Output Power

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
	LCH	19.60	30	PASS
11B	MCH	18.91	30	PASS
	НСН	19.08	30	PASS
	LCH	18.46	30	PASS
11G	MCH	17.77	30	PASS
	HCH	17.99	30	PASS
	LCH	18.01	30	PASS
11N20SISO	MCH	18.15	30	PASS
	HCH	18.18	30	PASS

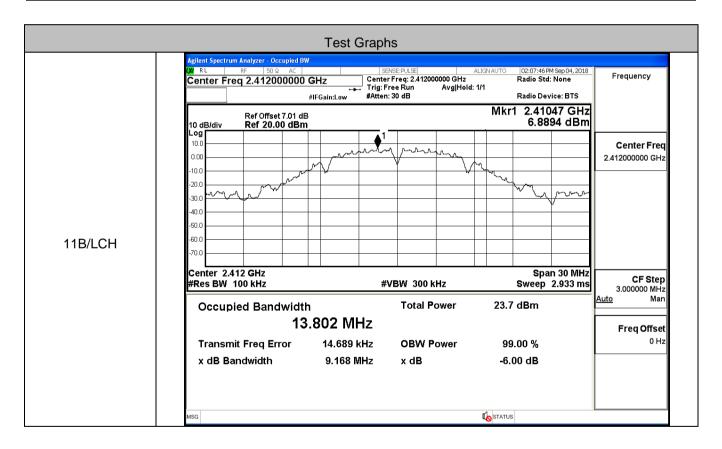
A.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
	LCH	1.390	8	PASS
11B	MCH	0.774	8	PASS
	HCH	0.819	8	PASS
	LCH	-5.814	8	PASS
11G	MCH	-6.235	8	PASS
	HCH	-6.783	8	PASS
	LCH	-6.474	8	PASS
11N20SISO	MCH	-6.438	8	PASS
	HCH	-6.519	8	PASS



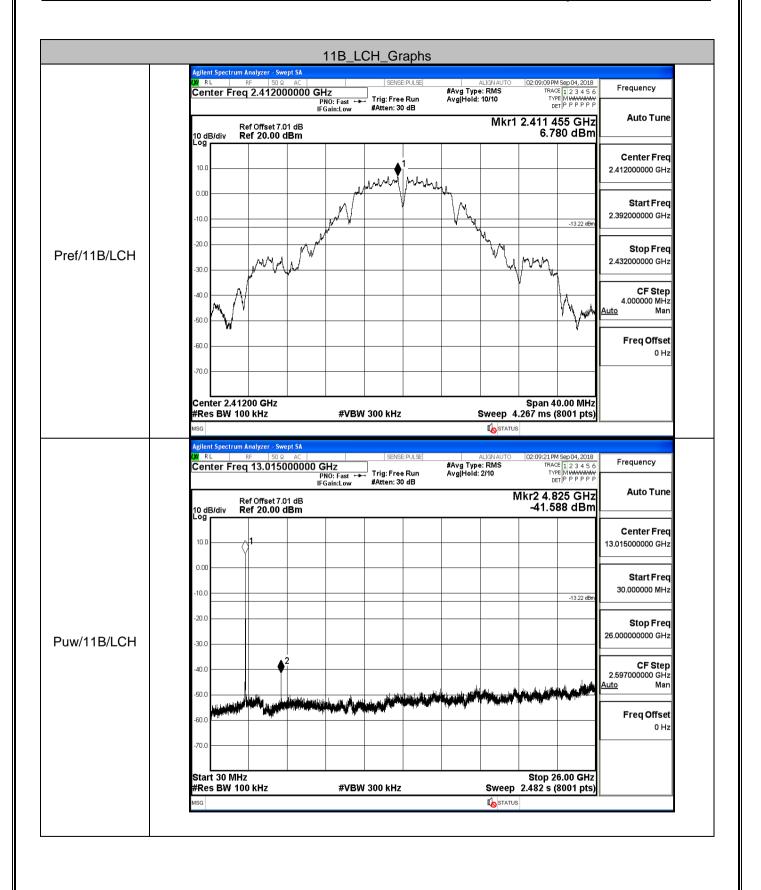
A.4 6dB Bandwidth

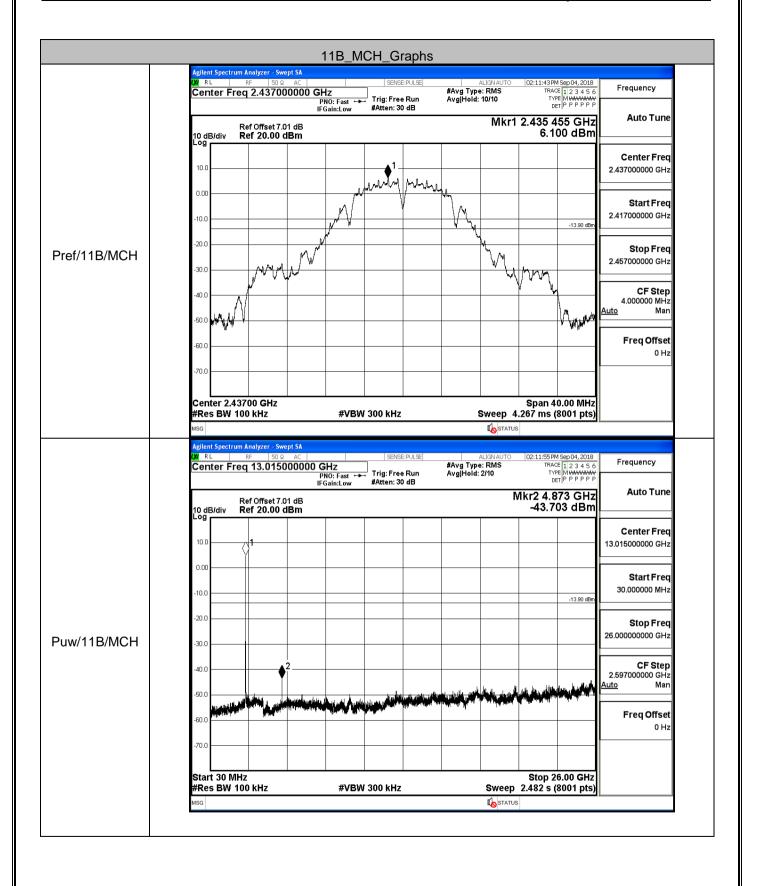
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	9.168	≥0.5	PASS
11B	MCH	9.526	≥0.5	PASS
	НСН	9.528	≥0.5	PASS
	LCH	16.61	≥0.5	PASS
11G	MCH	16.60	≥0.5	PASS
	НСН	16.60	≥0.5	PASS
	LCH	17.84	≥0.5	PASS
11N20SISO	MCH	17.82	≥0.5	PASS
	HCH	17.82	≥0.5	PASS

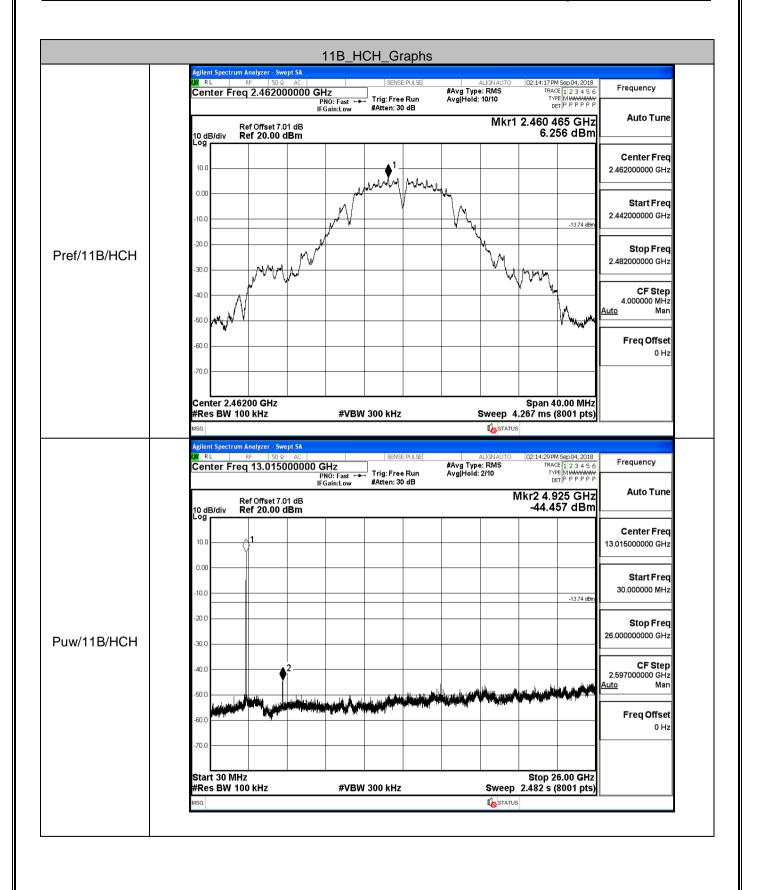


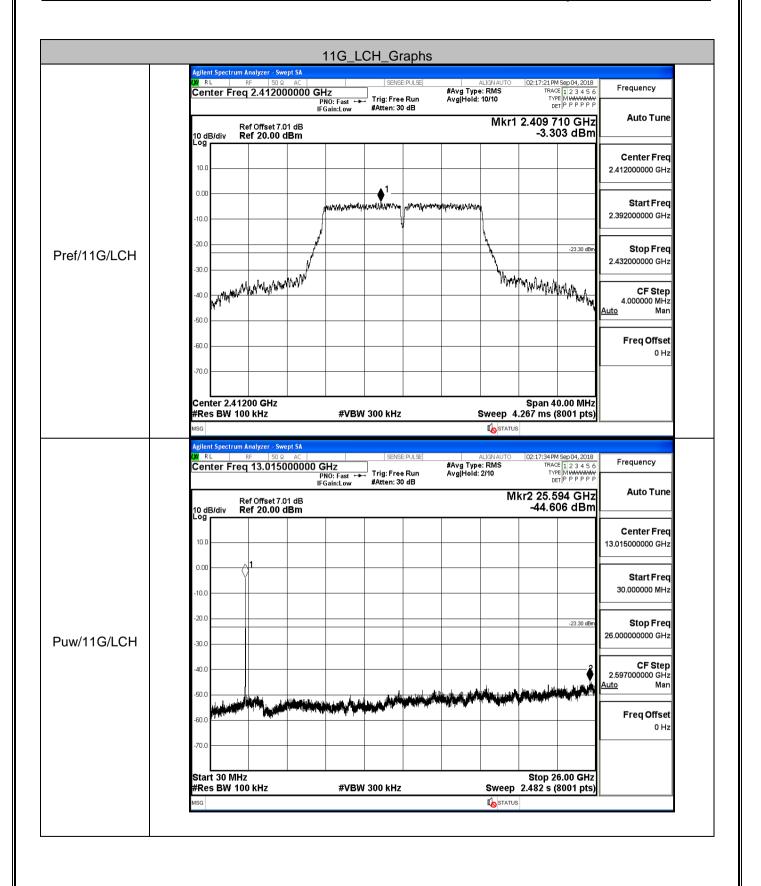
A.5 RF Conducted Spurious Emissions

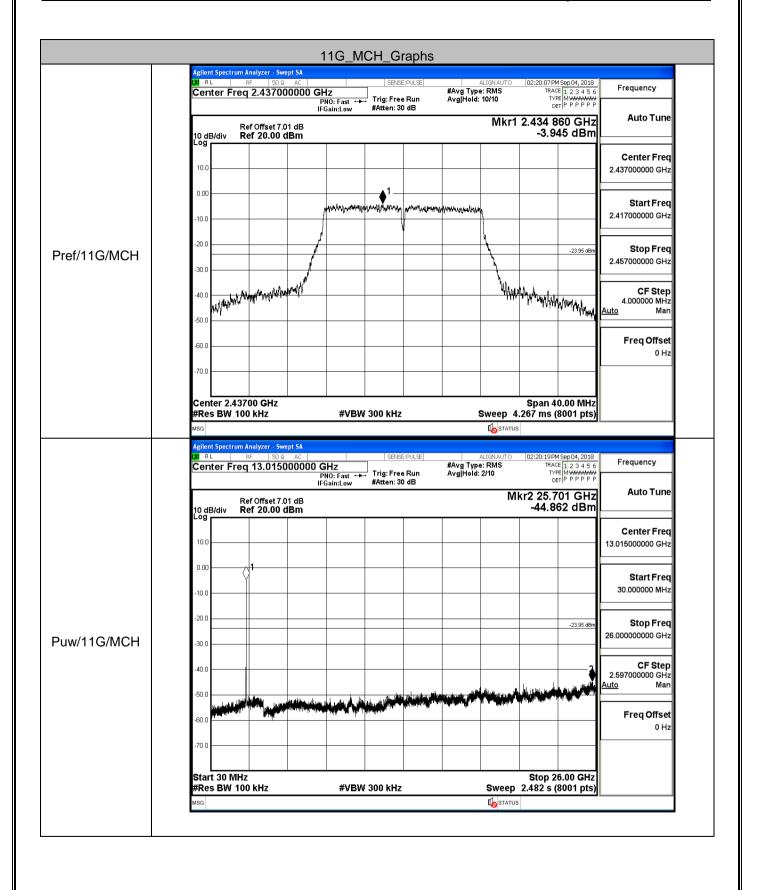
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	6.70	-41.588	-13.220	PASS
11B	MCH	6.100	-43.703	-13.900	PASS
	HCH	6.256	-44.457	-13.744	PASS
	LCH	-3.303	-44.606	-23.303	PASS
11G	MCH	-3.945	-44.862	-23.945	PASS
	НСН	-3.771	-44.714	-23.771	PASS
	LCH	-3.959	-44.360	-23.959	PASS
11N20	MCH	-3.557	-44.498	-23.557	PASS
SISO	HCH	-3.503	-43.866	-23.503	PASS

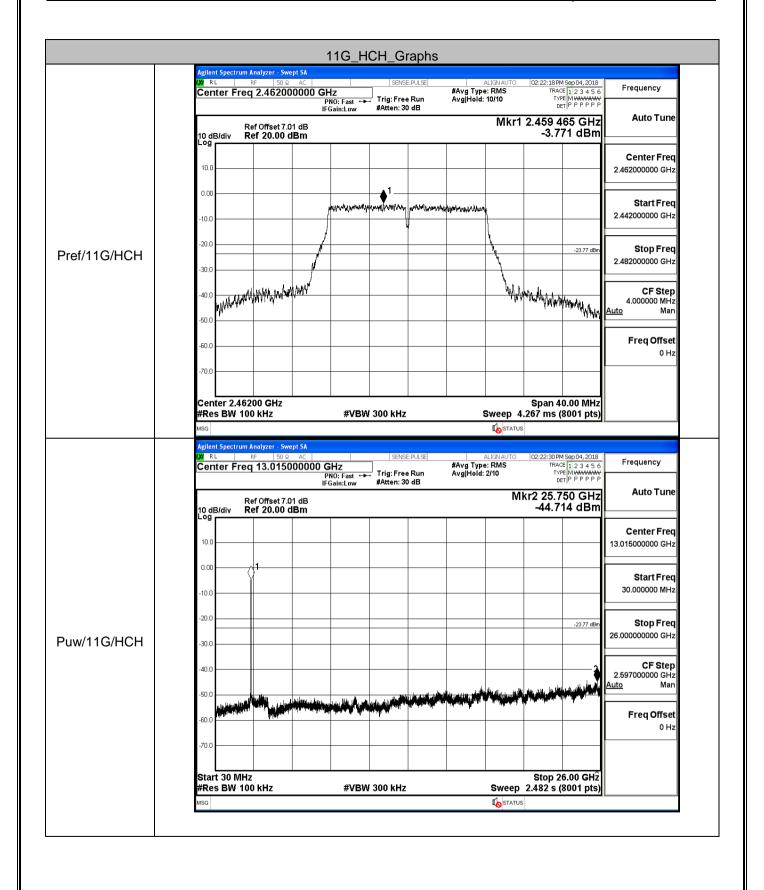


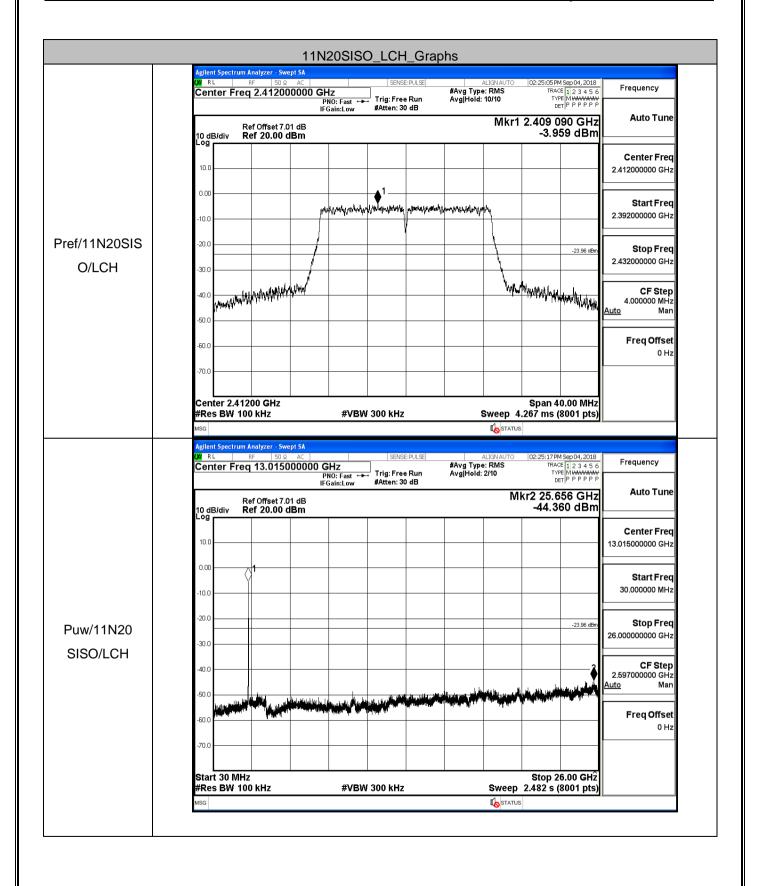


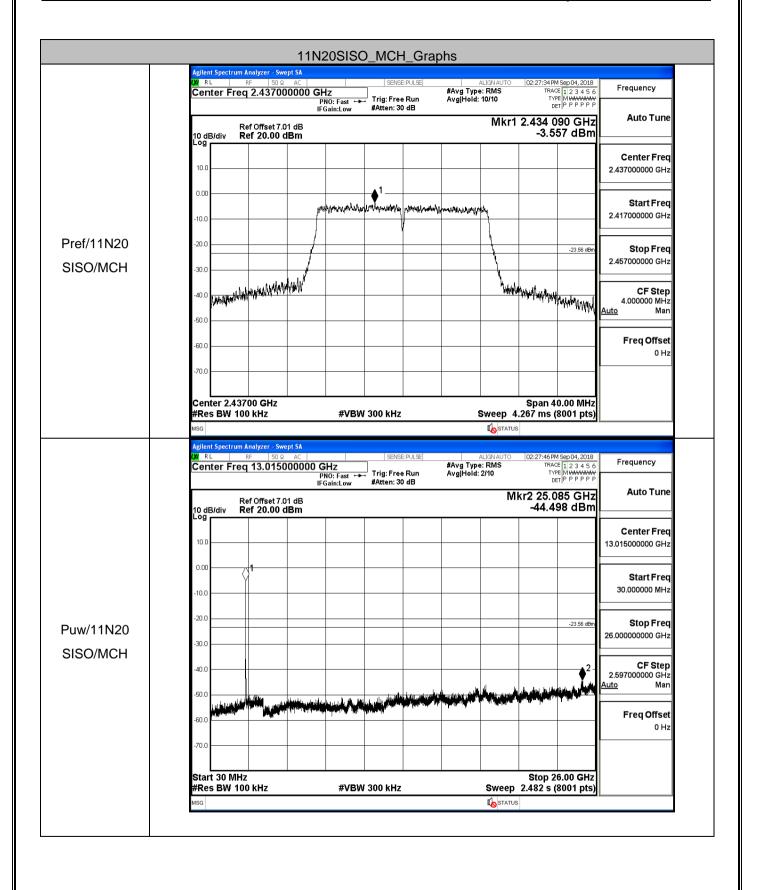


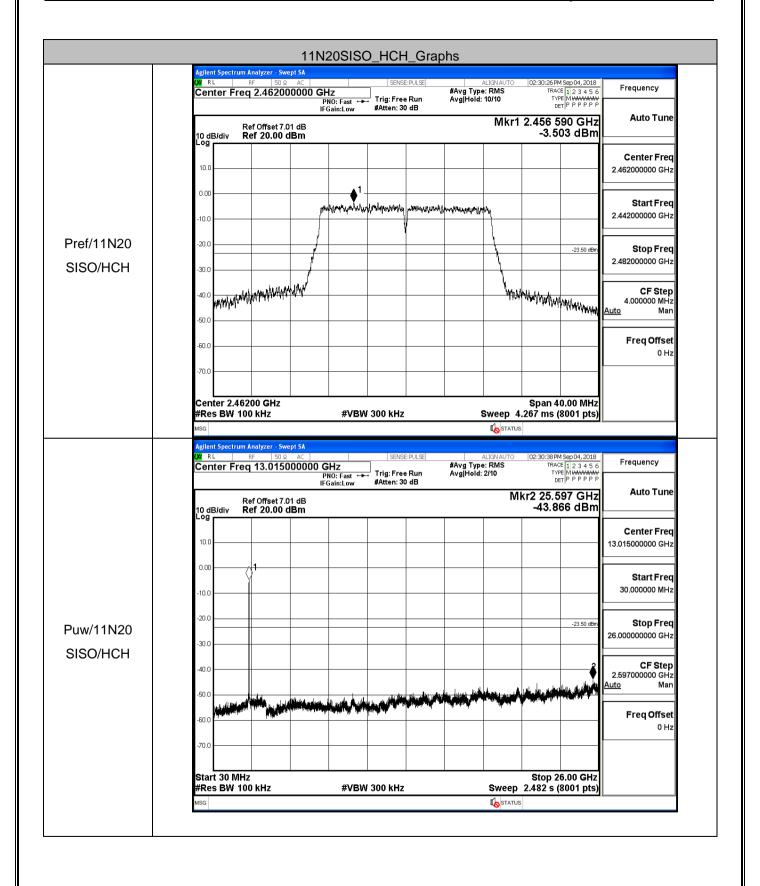






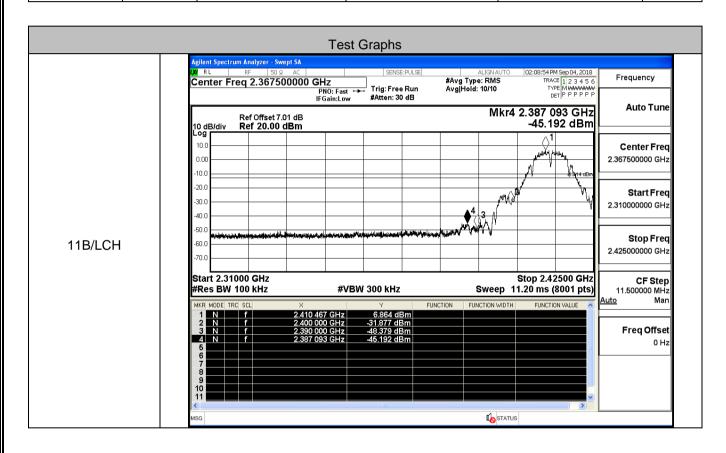


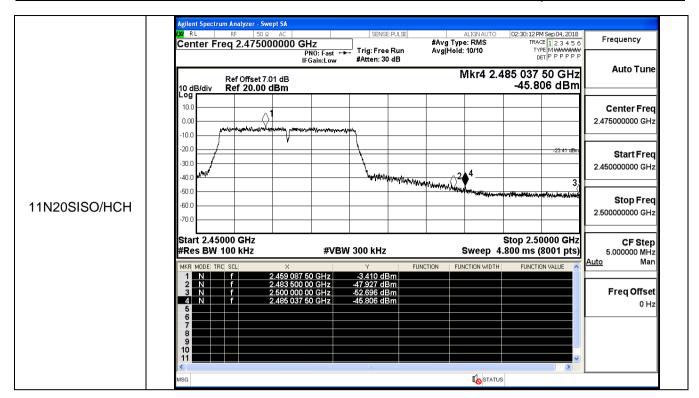




A.6 Band-edge for RF Conducted Emissions

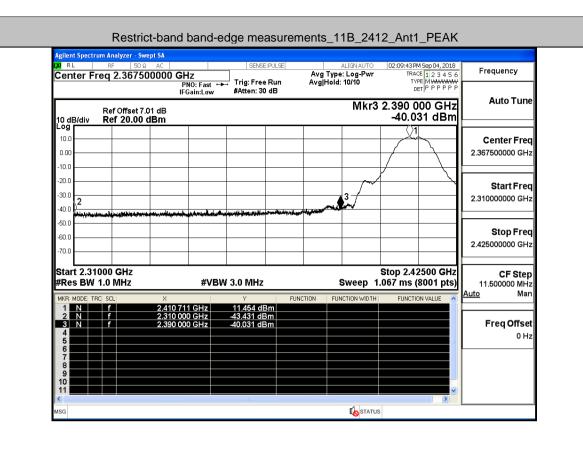
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level	Limit [dBm]	Verdict
445	LCH	6.864	-45.192	-13.14	PASS
11B	HCH	6.334	-47.436	-13.67	PASS
	LCH	-3.302	-45.854	-23.3	PASS
11G	HCH	-3.721	-48.030	-23.72	PASS
	LCH	-4.079	-44.457	-24.08	PASS
11N20SISO	HCH	-3.410	-45.806	-23.41	PASS

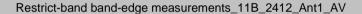


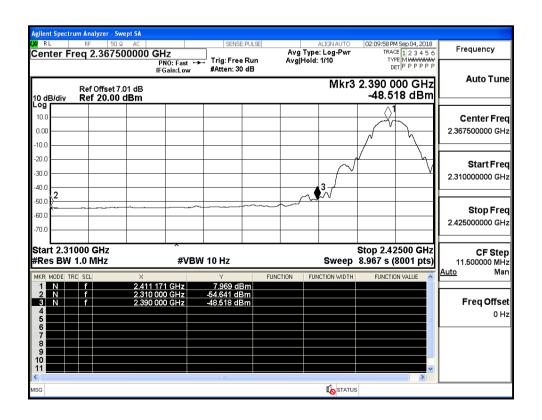


A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
	2412	Ant1	2310.0	-43.43	2.0	0	53.83	PEAK	74	PASS
	2412	Ant1	2310.0	-54.64	2.0	0	42.62	AV	54	PASS
	2412	Ant1	2390.0	-40.03	2.0	0	57.23	PEAK	74	PASS
445	2412	Ant1	2390.0	-48.52	2.0	0	48.74	AV	54	PASS
11B	2462	Ant1	2483.5	-40.85	2.0	0	56.41	PEAK	74	PASS
	2462	Ant1	2483.5	-51.29	2.0	0	45.97	AV	54	PASS
	2462	Ant1	2500.0	-43.26	2.0	0	54.00	PEAK	74	PASS
	2462	Ant1	2500.0	-53.72	2.0	0	43.54	AV	54	PASS
	2412	Ant1	2310.0	-44.93	2.0	0	52.33	PEAK	74	PASS
	2412	Ant1	2310.0	-54.74	2.0	0	42.52	AV	54	PASS
	2412	Ant1	2390.0	-33.51	2.0	0	63.75	PEAK	74	PASS
110	2412	Ant1	2390.0	-48.46	2.0	0	48.80	AV	54	PASS
11G	2462	Ant1	2483.5	-36.15	2.0	0	61.11	PEAK	74	PASS
	2462	Ant1	2483.5	-50.10	2.0	0	47.16	AV	54	PASS
	2462	Ant1	2500.0	-42.25	2.0	0	55.01	PEAK	74	PASS
	2462	Ant1	2500.0	-52.97	2.0	0	44.29	AV	54	PASS
	2412	Ant1	2310.0	-43.61	2.0	0	53.65	PEAK	74	PASS
	2412	Ant1	2310.0	-54.74	2.0	0	42.52	AV	54	PASS
	2412	Ant1	2390.0	-30.18	2.0	0	67.08	PEAK	74	PASS
11N20	2412	Ant1	2390.0	-48.50	2.0	0	48.76	AV	54	PASS
SISO	2462	Ant1	2483.5	-33.38	2.0	0	63.88	PEAK	74	PASS
	2462	Ant1	2483.5	-49.00	2.0	0	48.25	AV	54	PASS
	2462	Ant1	2500.0	-42.06	2.0	0	55.19	PEAK	74	PASS
	2462	Ant1	2500.0	-52.93	2.0	0	44.33	AV	54	PASS

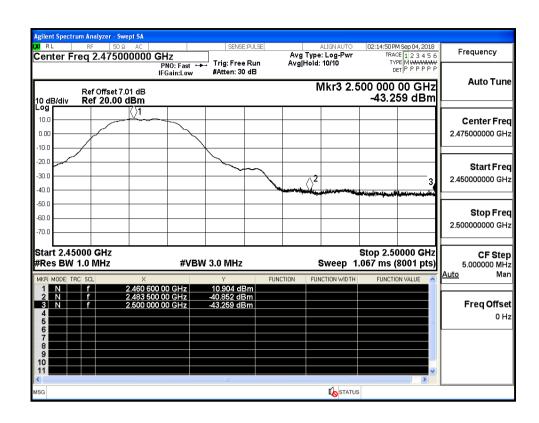




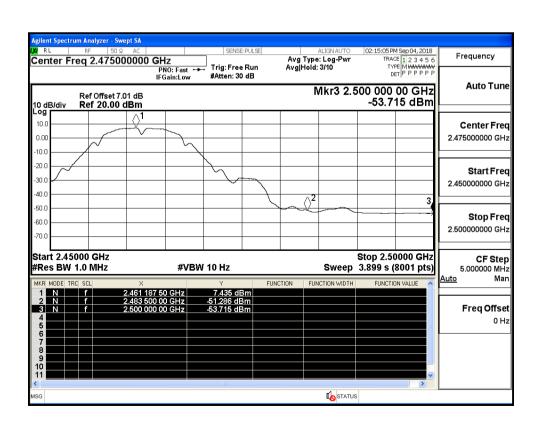


Page 30 of 35

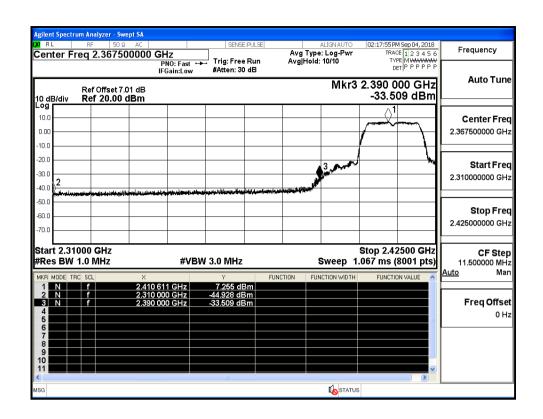
Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



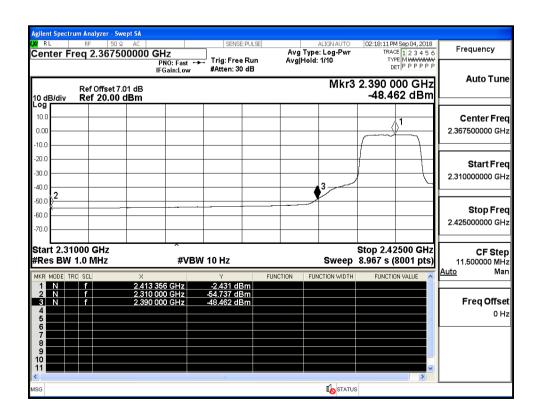
Restrict-band band-edge measurements_11B_2462_Ant1_AV



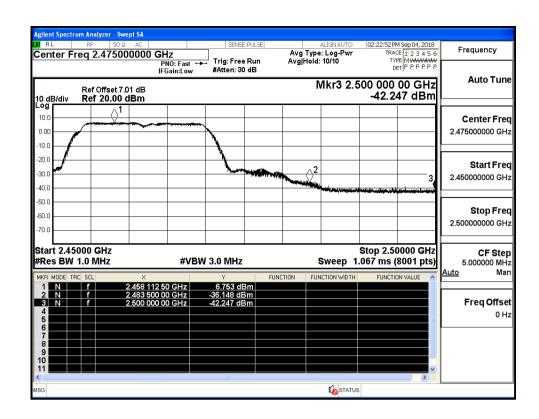
Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



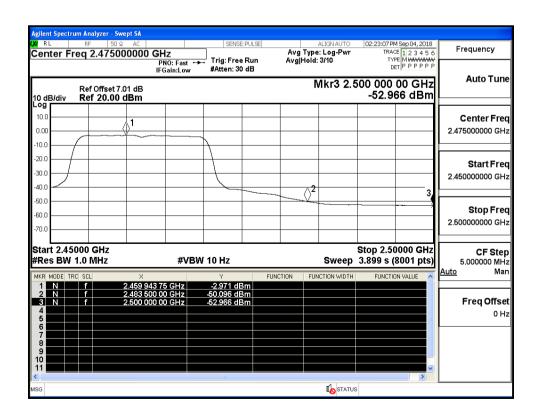
Restrict-band band-edge measurements_11G_2412_Ant1_AV

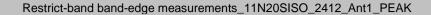


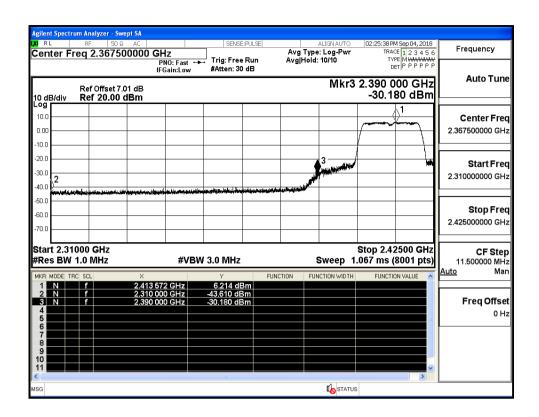
Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



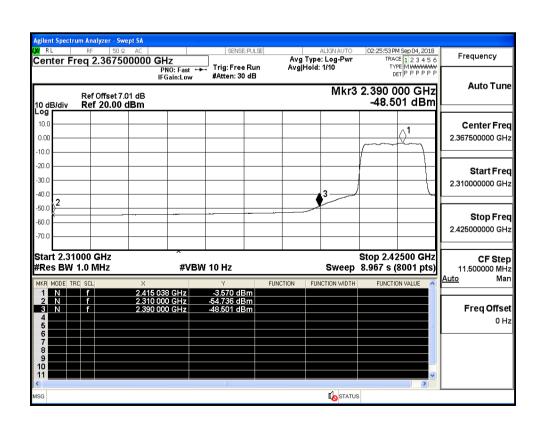
Restrict-band band-edge measurements_11G_2462_Ant1_AV



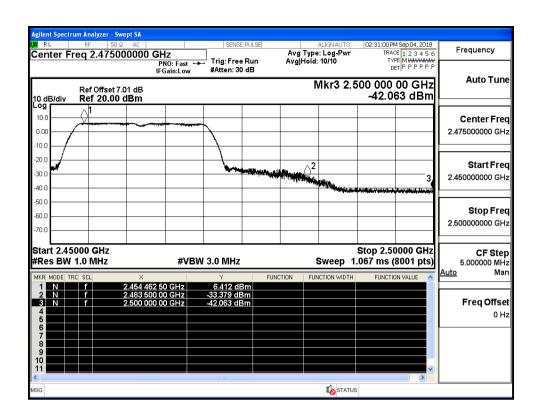




Restrict-band band-edge measurements_11N20SISO_2412_Ant1_AV



Restrict-band band-edge measurements_11N20SISO_2462_Ant1_PEAK



Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV

