Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

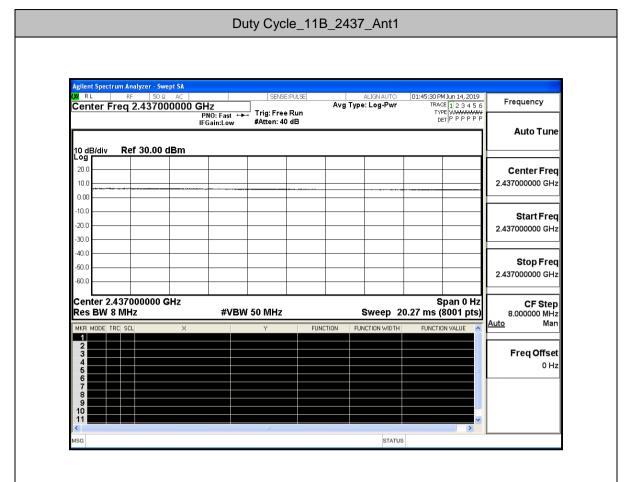
Product Name: Smart Aroma Diffuser Trade Mark: atomi Test Model: AT1325

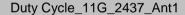
Environmental Conditions

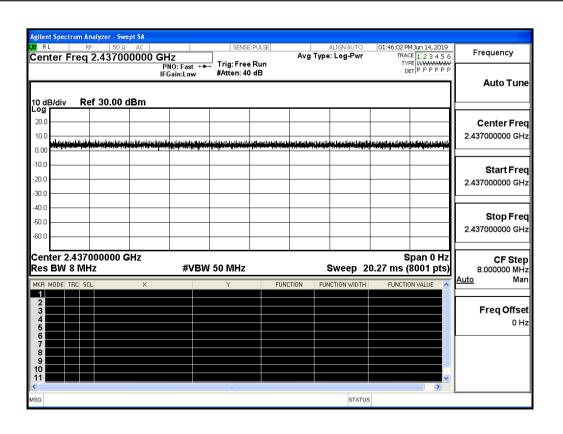
Temperature:	24.5 ° C				
Relative Humidity:	54.1 %				
ATM Pressure:	100.0 kPa				
Test Engineer:	SCENT HU				
Supervised by:	WANGCHUANG				

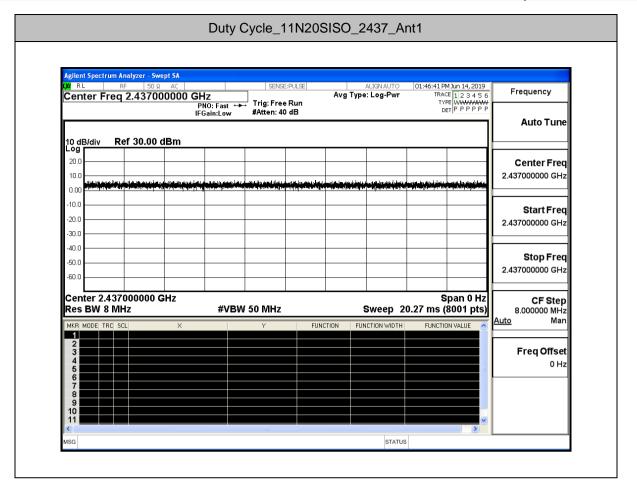
A.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100.00	PASS
11G	2437	Ant1	100.00	PASS
11N20SISO	2437	Ant1	100.00	PASS







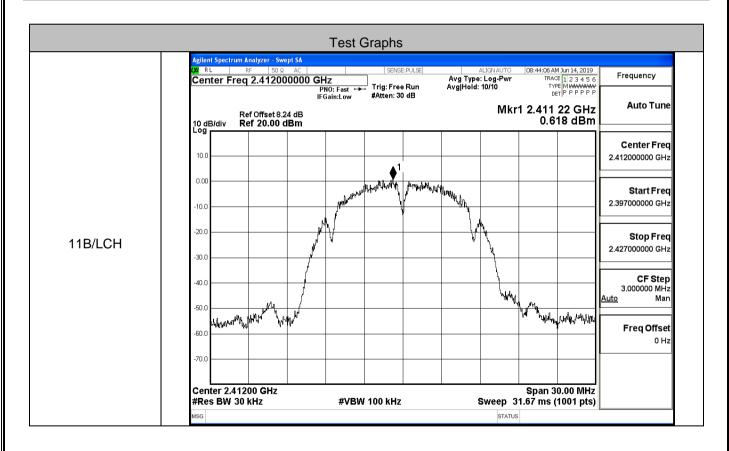


A.2 Maximum Conducted Output Power

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
	LCH	15.85	30	PASS
11B	MCH	16.23	30	PASS
	HCH	16.67	30	PASS
	LCH	19.04	30	PASS
11G	MCH	19.37	30	PASS
11G	НСН	20.66	30	PASS
	LCH	19.28	30	PASS
11N20SISO	20SISO MCH 19.22		30	PASS
	HCH	20.42	30	PASS

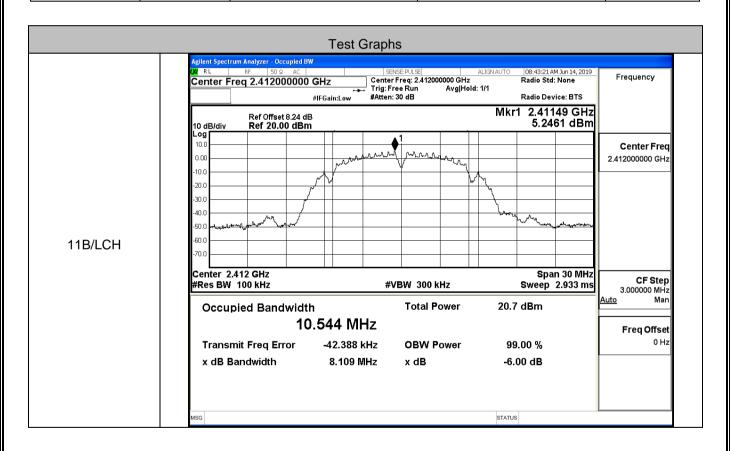
A.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
	LCH	0.618	-9.382	8	PASS
11B	MCH	0.896	-9.104	8	PASS
	HCH	1.275	-8.725	8	PASS
	LCH	-3.655	-13.655	8	PASS
11G	MCH	-3.058	-13.058	8	PASS
	НСН	-2.251	-12.251	8	PASS
	LCH	-4.644	-14.644	8	PASS
11N20SISO	MCH	-4.136	-14.136	8	PASS
	HCH	-2.280	-12.280	8	PASS



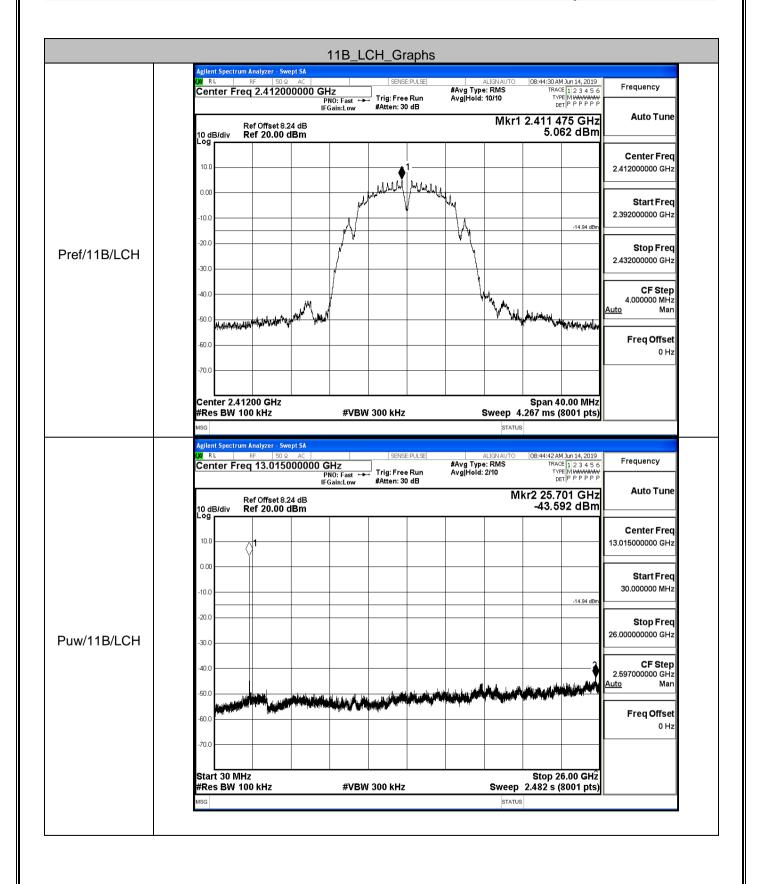
A.4 6dB Bandwidth

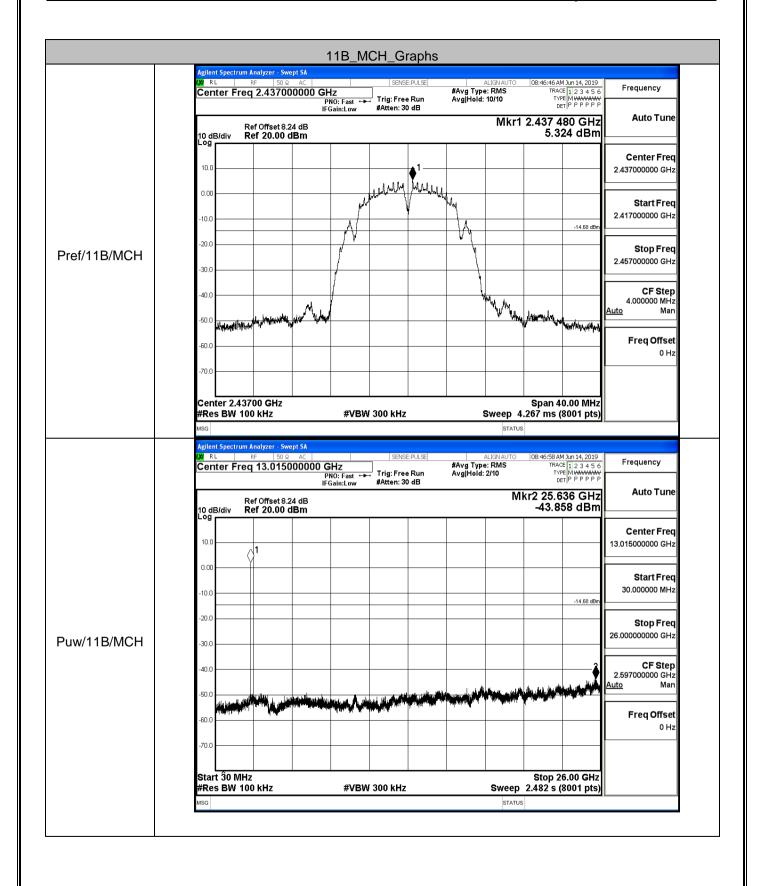
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	8.109	≥0.5	PASS
11B	MCH	8.579	≥0.5	PASS
	НСН	8.116	8.109 ≥0.5 8.579 ≥0.5	PASS
	LCH	15.12	≥0.5	PASS
11G	MCH	15.13	≥0.5	PASS
	НСН	15.13	≥0.5 ≥0.5	PASS
	LCH	15.13	≥0.5	PASS
11N20SISO	MCH	15.13	≥0.5	PASS
	НСН	15.13	≥0.5	PASS

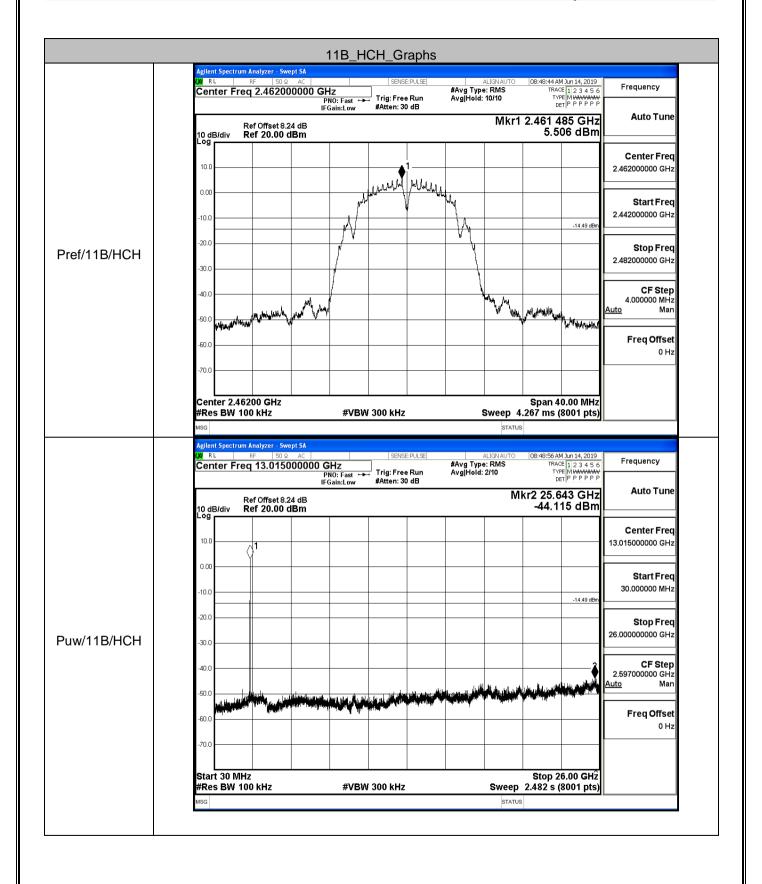


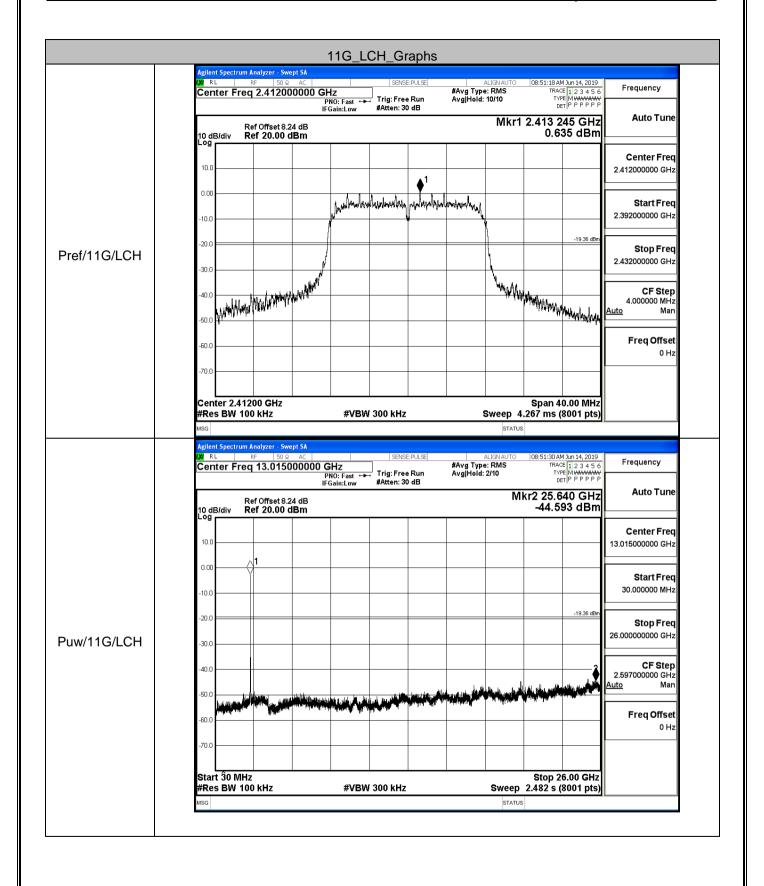
A.5 RF Conducted Spurious Emissions

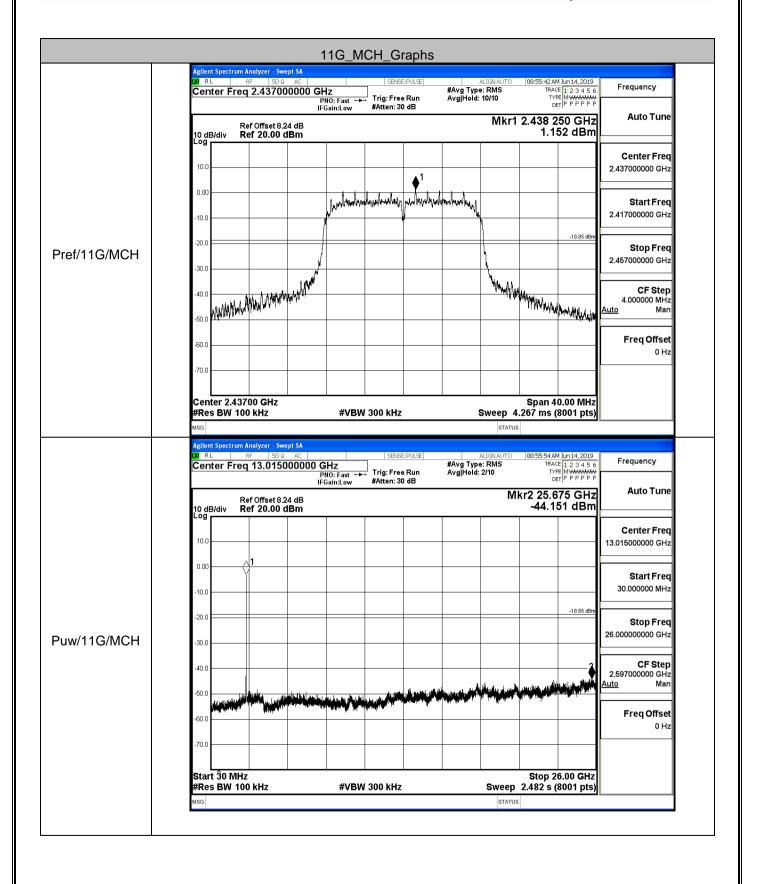
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdic t
	LCH	5.062	-43.592	-14.938	PASS
11B	MCH	5.324	-43.858	-14.676	PASS
	HCH	5.506	-44.115	-14.494	PASS
	LCH	0.635	-44.593	-19.365	PASS
11G	MCH	1.152	-44.151	-18.848	PASS
	НСН	2.081	-43.504	-17.919	PASS
	LCH	1.046	-41.259	-18.954	PASS
11N20	MCH	0.614	-42.586	-19.386	PASS
SISO	НСН	1.84	-43.060	-18.160	PASS

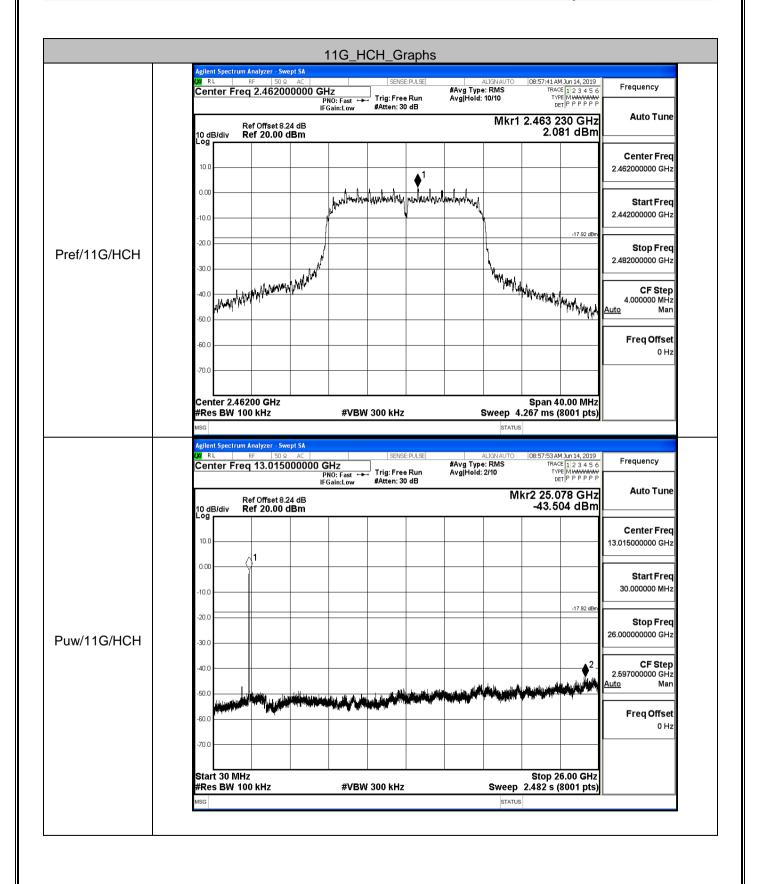


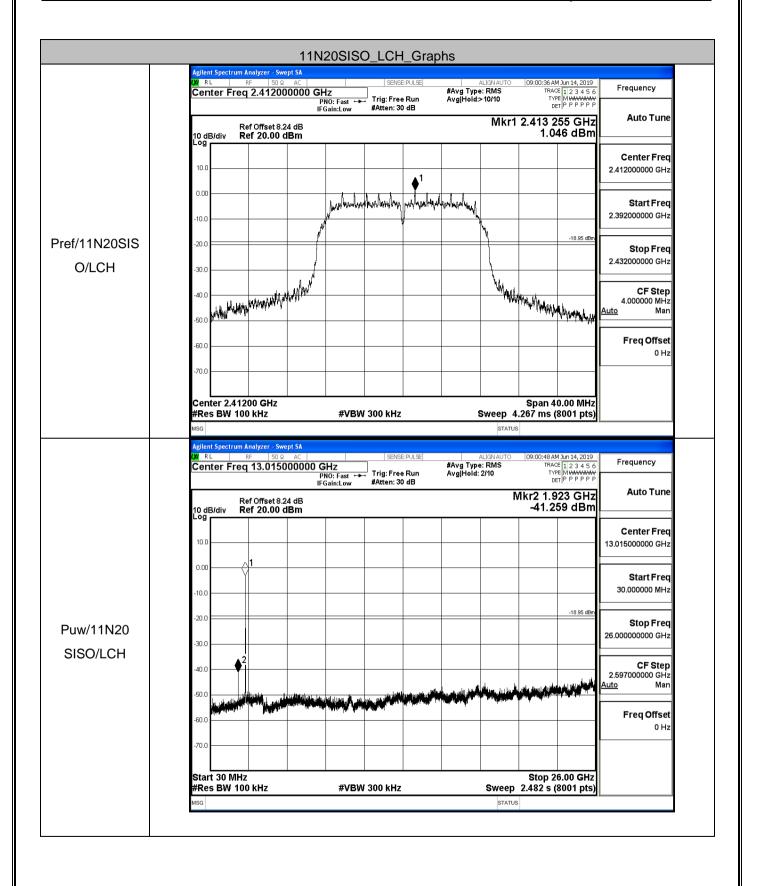


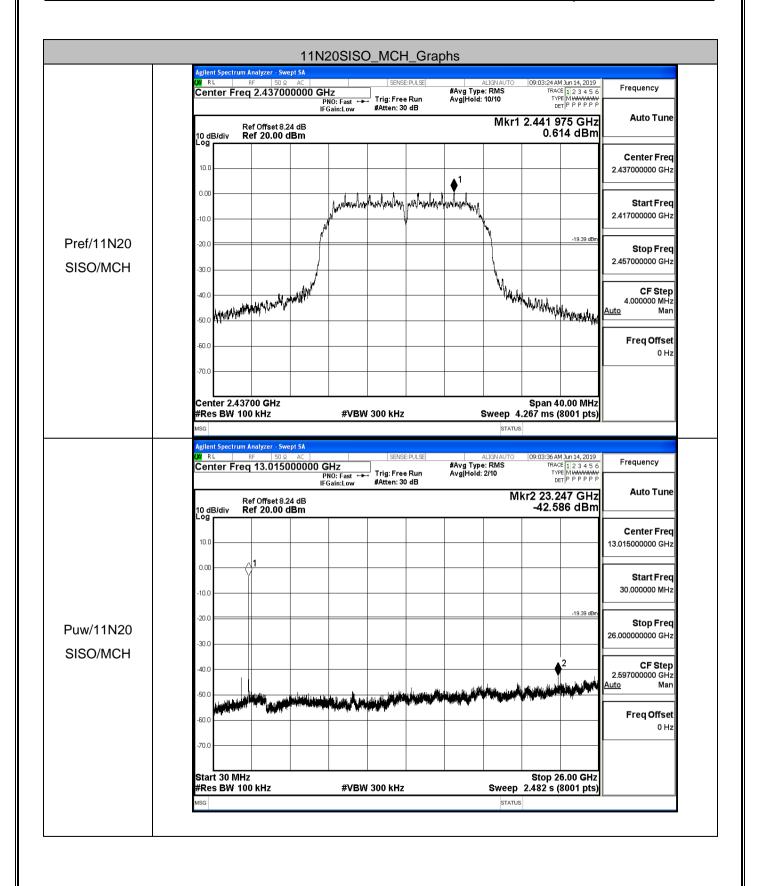


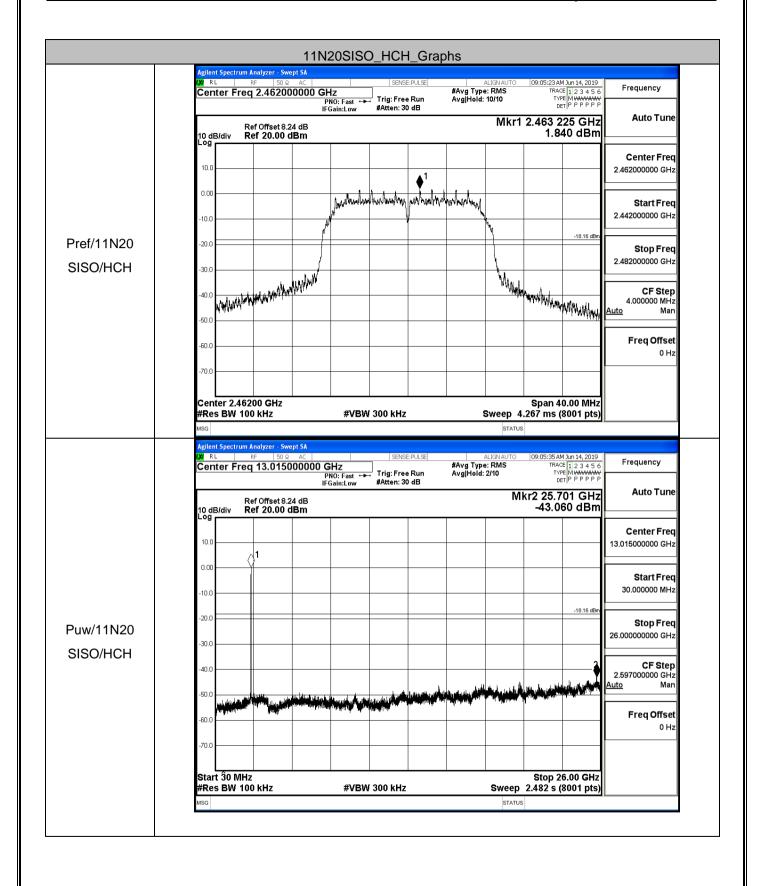






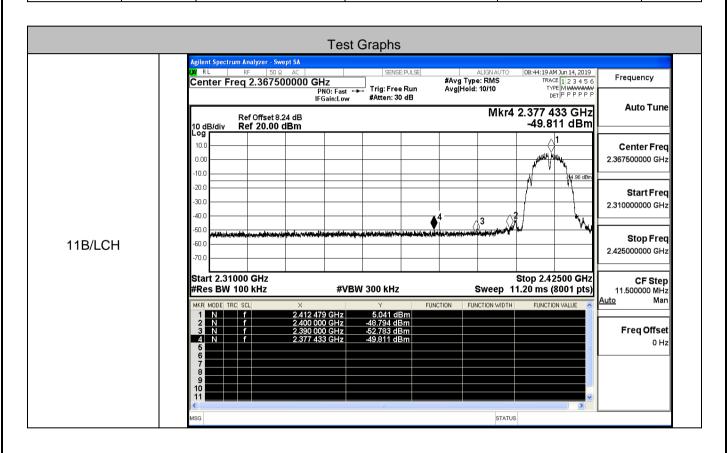


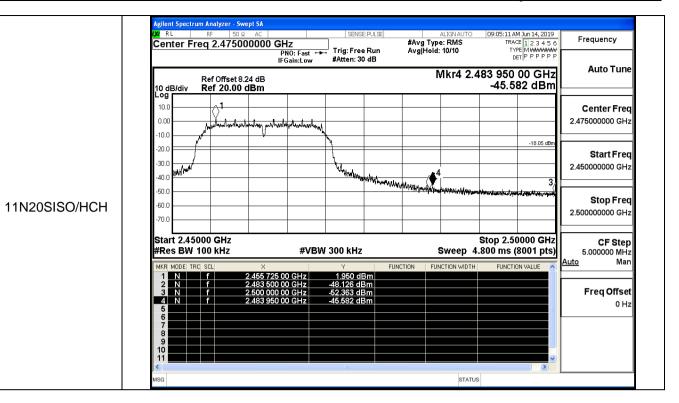




A.6 Band-edge for RF Conducted Emissions

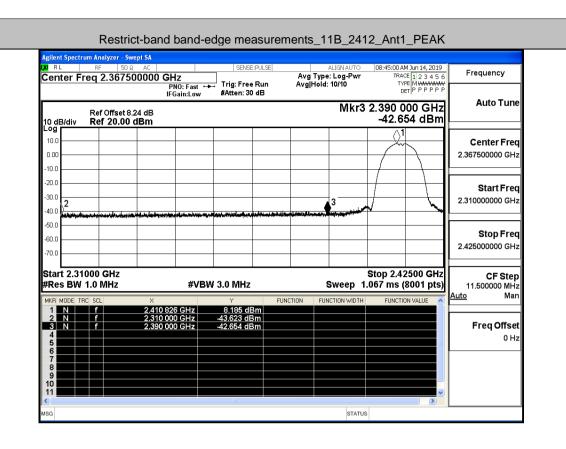
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level	Limit [dBm]	Verdict
445	LCH	5.041	-49.811	-14.96	PASS
11B	НСН	5.890	-49.261	-14.11	PASS
11G	LCH	0.655	-45.843	-19.35	PASS
	НСН	1.813	-45.406	-18.19	PASS
11N20SISO	LCH	1.187	-46.708	-18.81	PASS
	HCH	1.950	-45.582	-18.05	PASS



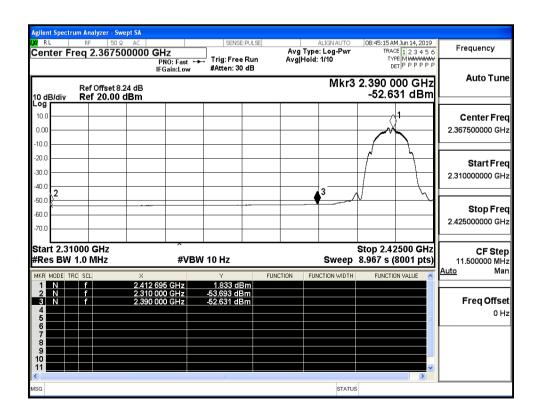


A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
	2412	Ant1	2310.0	-43.62	2.5	0	54.08	PEAK	74	PASS
	2412	Ant1	2310.0	-53.69	2.5	0	44.01	AV	54	PASS
	2412	Ant1	2390.0	-42.65	2.5	0	55.05	PEAK	74	PASS
440	2412	Ant1	2390.0	-52.63	2.5	0	45.07	AV	54	PASS
11B	2462	Ant1	2483.5	-40.75	2.5	0	56.95	PEAK	74	PASS
	2462	Ant1	2483.5	-51.97	2.5	0	45.73	AV	54	PASS
	2462	Ant1	2500.0	-42.36	2.5	0	55.34	PEAK	74	PASS
	2462	Ant1	2500.0	-52.66	2.5	0	45.04	AV	54	PASS
	2412	Ant1	2310.0	-42.29	2.5	0	55.41	PEAK	74	PASS
	2412	Ant1	2310.0	-53.70	2.5	0	44.00	AV	54	PASS
	2412	Ant1	2390.0	-34.36	2.5	0	63.34	PEAK	74	PASS
	2412	Ant1	2390.0	-51.54	2.5	0	46.16	AV	54	PASS
11G	2462	Ant1	2483.5	-36.28	2.5	0	61.42	PEAK	74	PASS
	2462	Ant1	2483.5	-49.86	2.5	0	47.84	AV	54	PASS
	2462	Ant1	2500.0	-41.62	2.5	0	56.08	PEAK	74	PASS
	2462	Ant1	2500.0	-52.05	2.5	0	45.65	AV	54	PASS
	2412	Ant1	2310.0	-42.25	2.5	0	55.45	PEAK	74	PASS
	2412	Ant1	2310.0	-53.34	2.5	0	44.36	AV	54	PASS
	2412	Ant1	2390.0	-36.14	2.5	0	61.56	PEAK	74	PASS
11N20	2412	Ant1	2390.0	-51.28	2.5	0	46.42	AV	54	PASS
SISO	2462	Ant1	2483.5	-32.68	2.5	0	65.02	PEAK	74	PASS
	2462	Ant1	2483.5	-50.00	2.5	0	47.70	AV	54	PASS
	2462	Ant1	2500.0	-40.83	2.5	0	56.87	PEAK	74	PASS
	2462	Ant1	2500.0	-52.04	2.5	0	45.66	AV	54	PASS

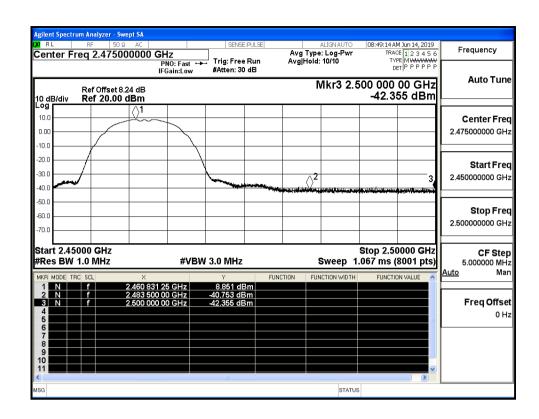


Restrict-band band-edge measurements_11B_2412_Ant1_AV

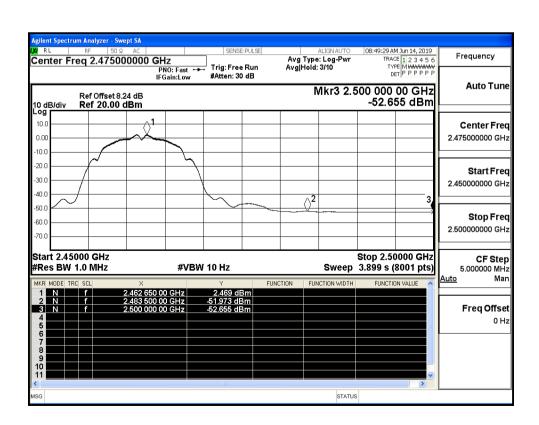


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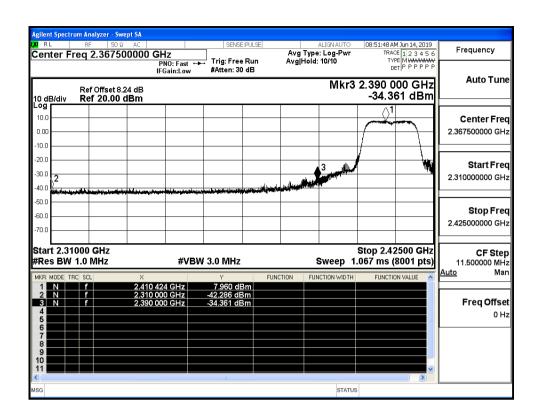
Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



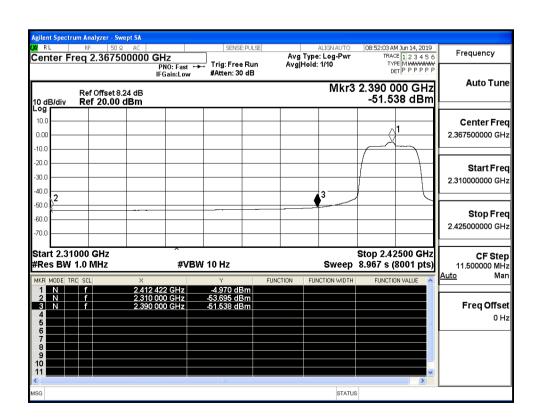
Restrict-band band-edge measurements_11B_2462_Ant1_AV



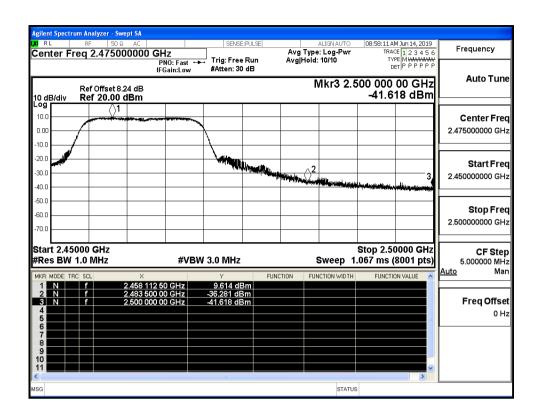
Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



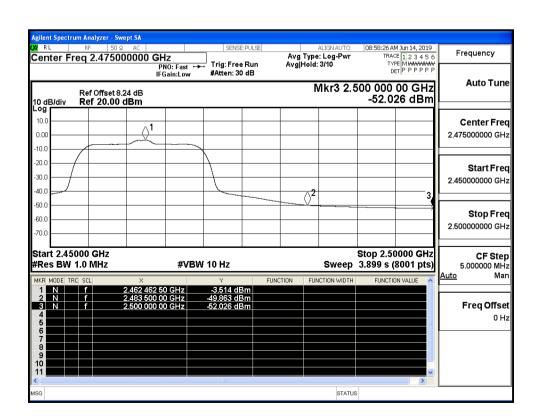
Restrict-band band-edge measurements_11G_2412_Ant1_AV

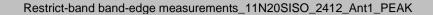


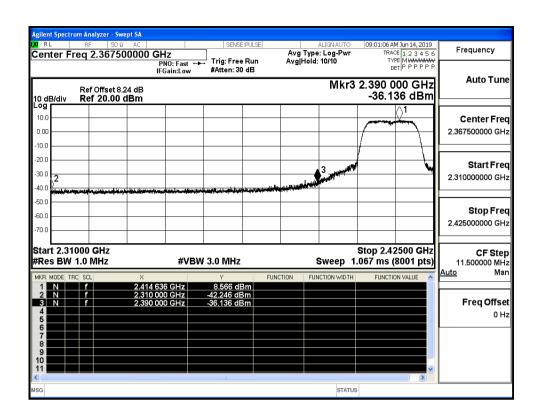
Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



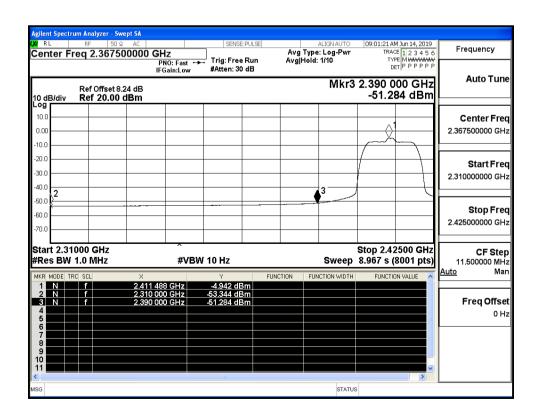
Restrict-band band-edge measurements_11G_2462_Ant1_AV



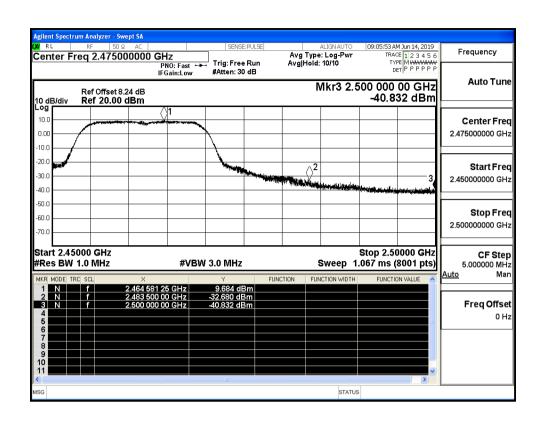




Restrict-band band-edge measurements_11N20SISO_2412_Ant1_AV



Restrict-band band-edge measurements_11N20SISO_2462_Ant1_PEAK



Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV

