

## Appendix C

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

Product Name: **WiFi Socket**

Trade Mark: **N/A**

Test Model: **D1**

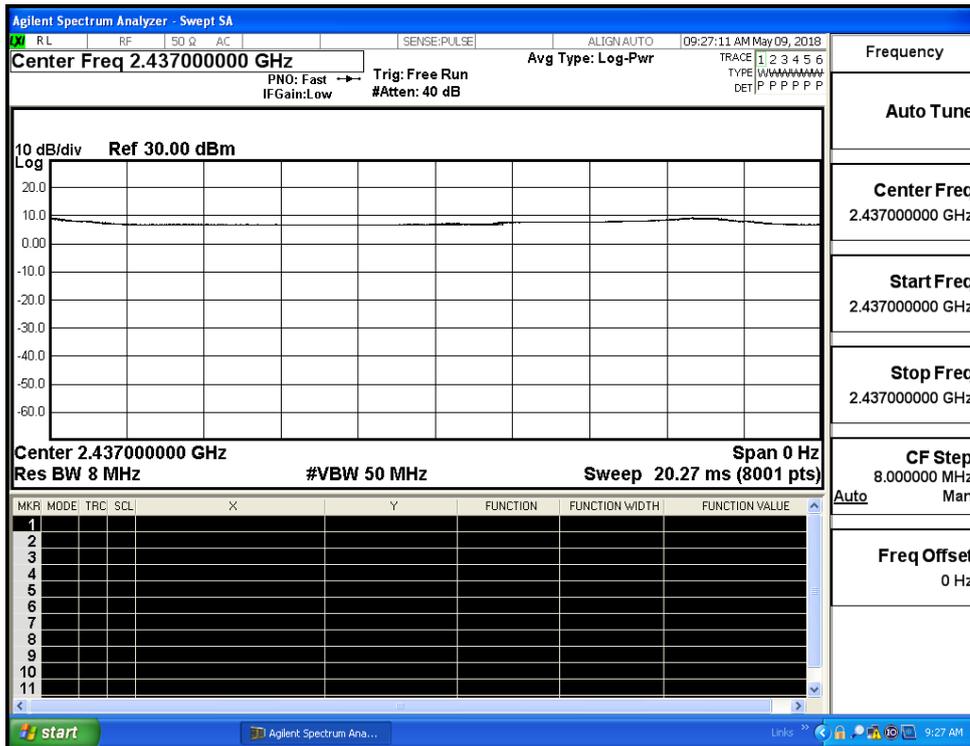
#### Environmental Conditions

Temperature:	23.4 ° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	WangChang
Supervised by:	Jayden.Zhuo

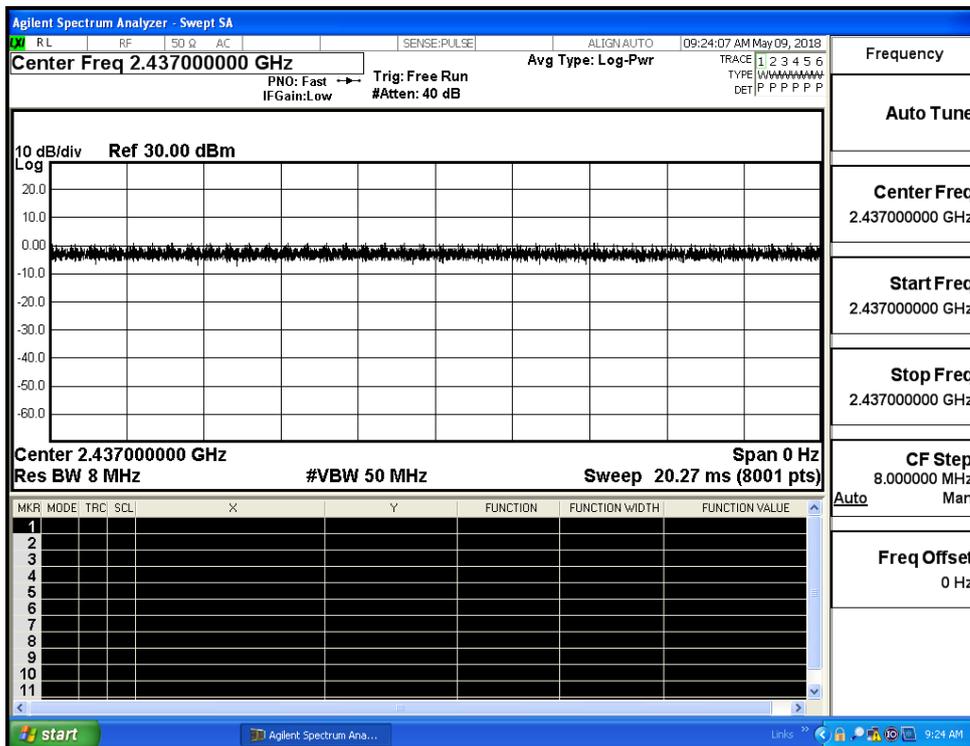
#### A.1 Duty Cycle

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

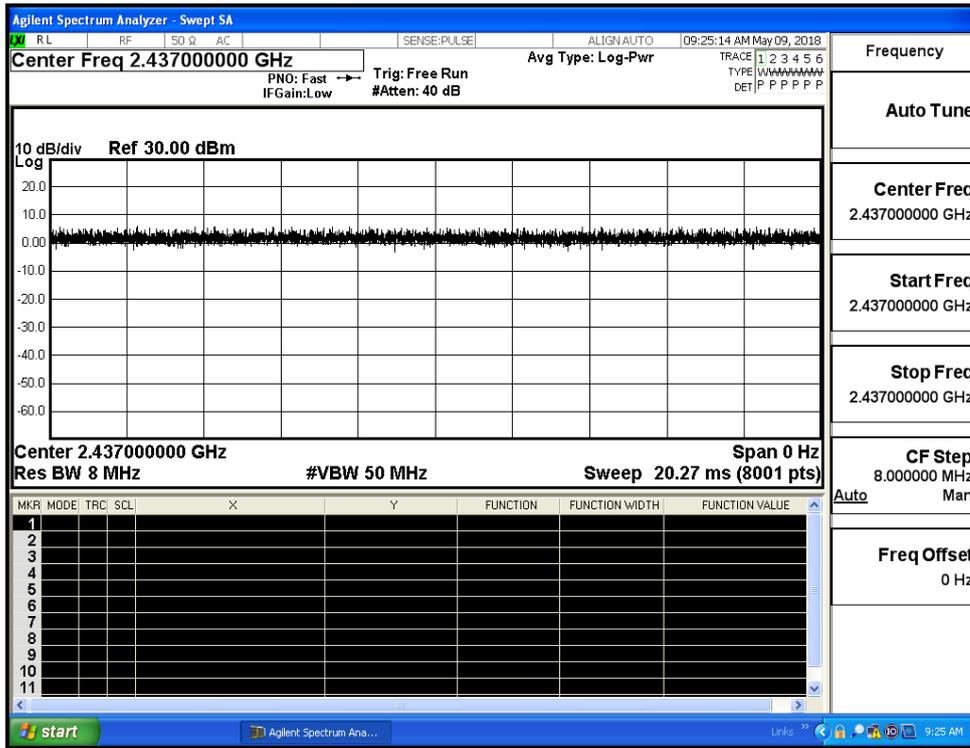
Duty Cycle\_11B\_2437\_Ant1



Duty Cycle\_11G\_2437\_Ant1



Duty Cycle\_11N20SISO\_2437\_Ant1

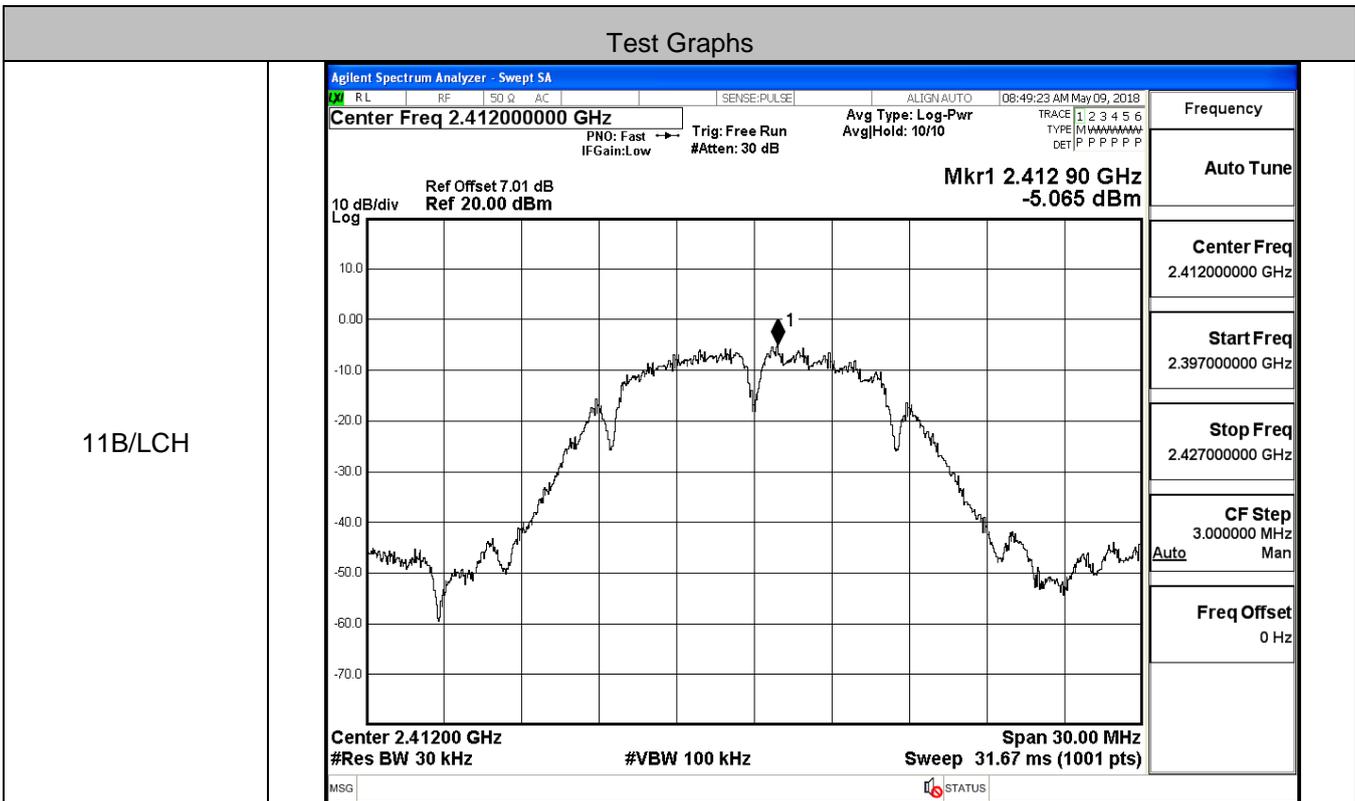


**A.2 Maximum Conducted Output Power**

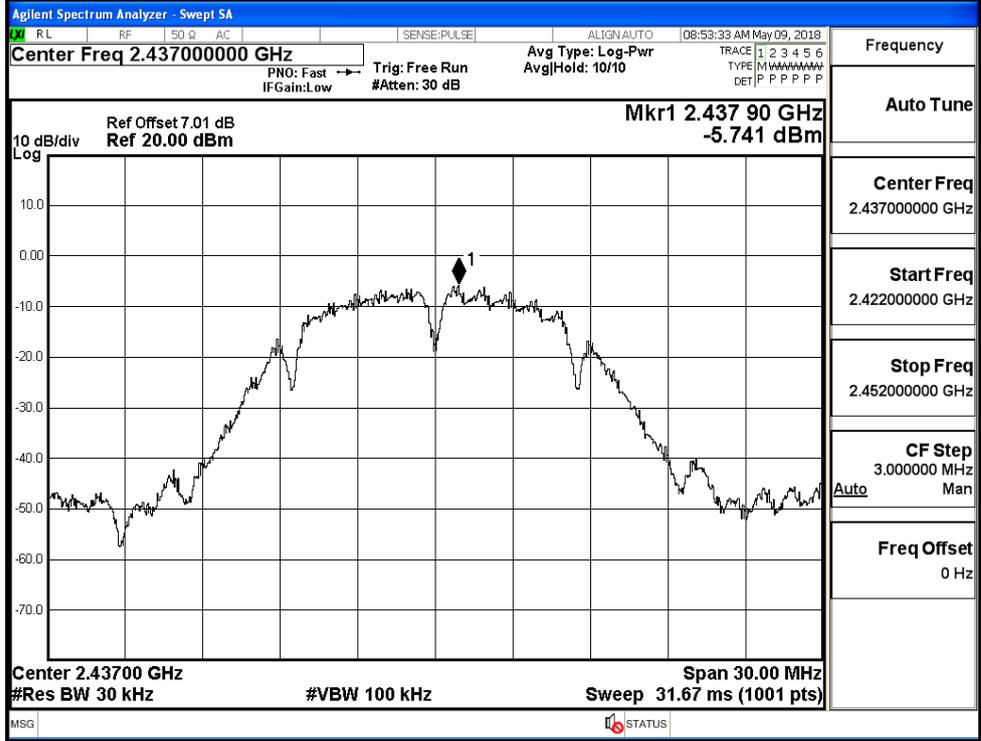
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	12.94	30	PASS
	MCH	12.25	30	PASS
	HCH	12.10	30	PASS
11G	LCH	14.20	30	PASS
	MCH	13.26	30	PASS
	HCH	12.54	30	PASS
11N20SISO	LCH	13.74	30	PASS
	MCH	13.24	30	PASS
	HCH	12.72	30	PASS

### A.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-5.065	8	PASS
	MCH	-5.741	8	PASS
	HCH	-5.923	8	PASS
11G	LCH	-9.610	8	PASS
	MCH	-10.533	8	PASS
	HCH	-11.313	8	PASS
11N20SISO	LCH	-8.672	8	PASS
	MCH	-9.607	8	PASS
	HCH	-10.256	8	PASS



11B/MCH

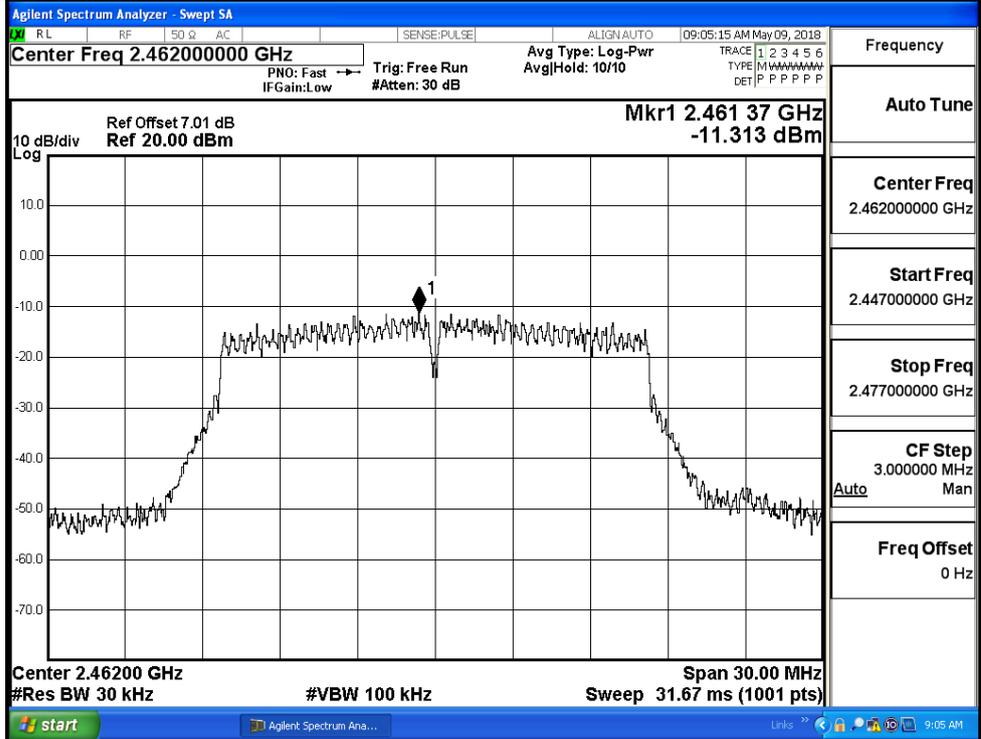


11B/HCH

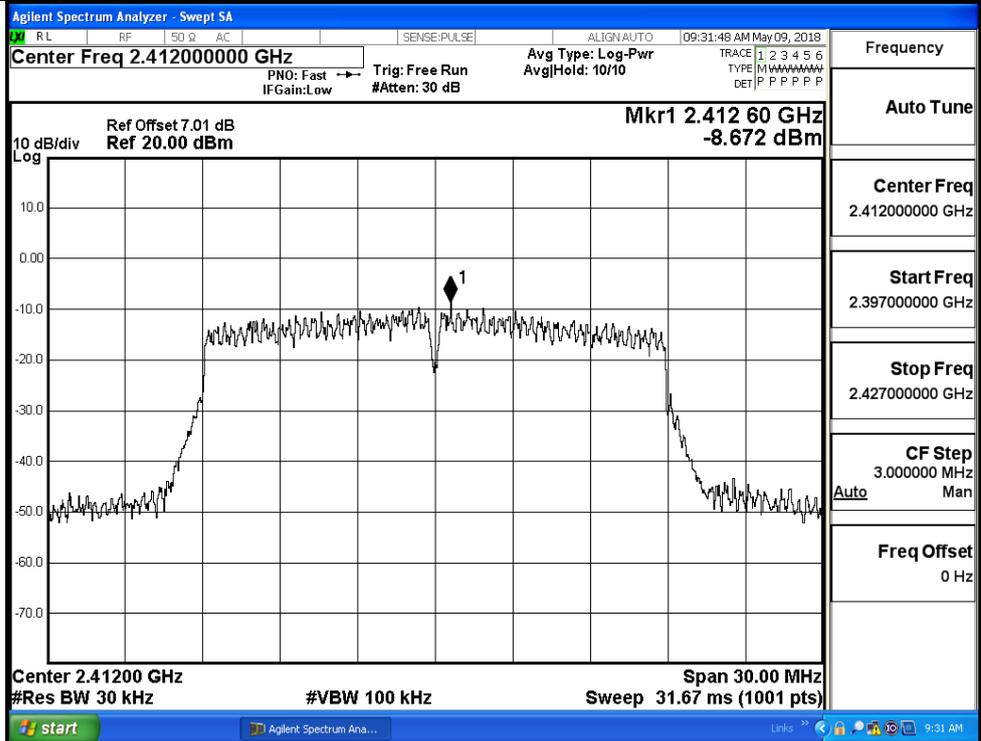




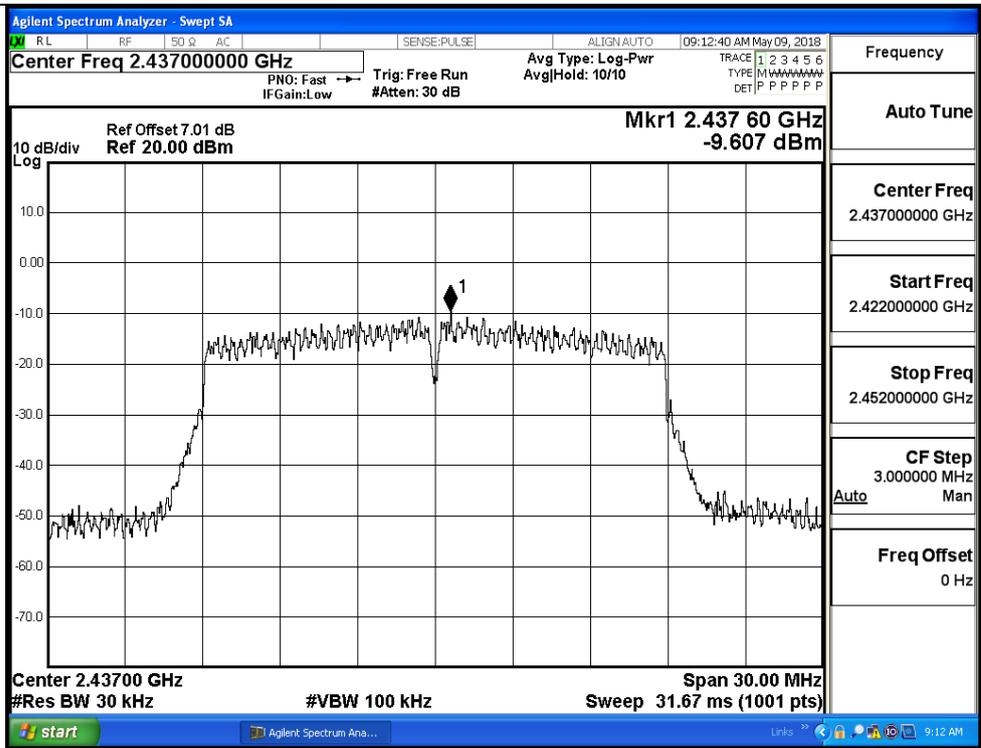
11G/HCH



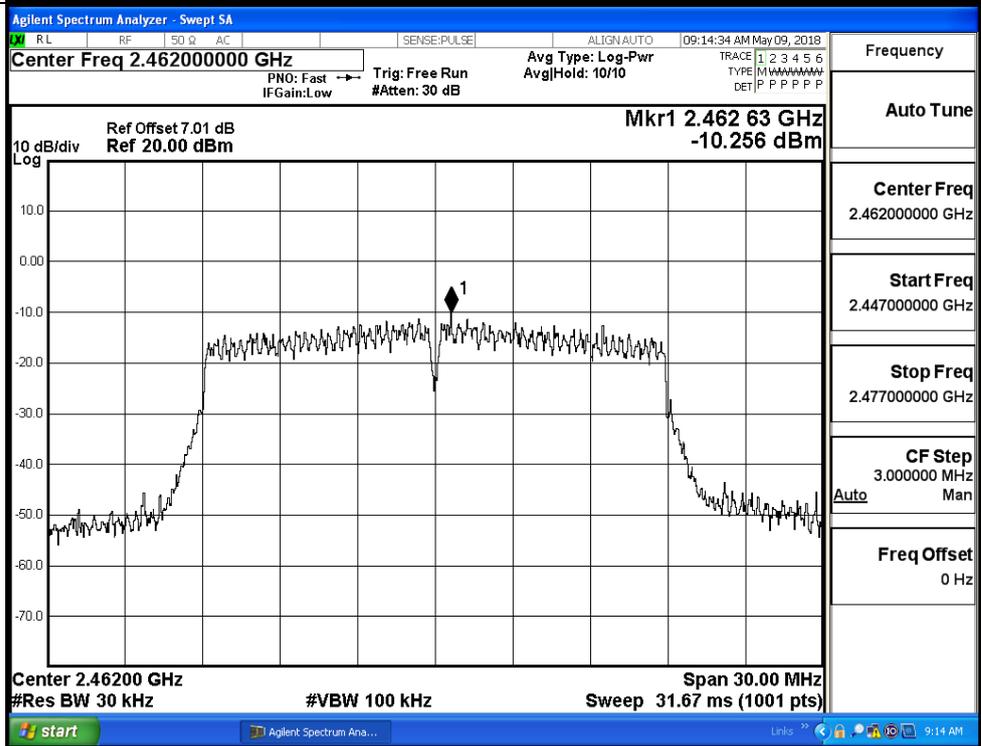
11N20SISO/LCH



11N20SISO/MCH

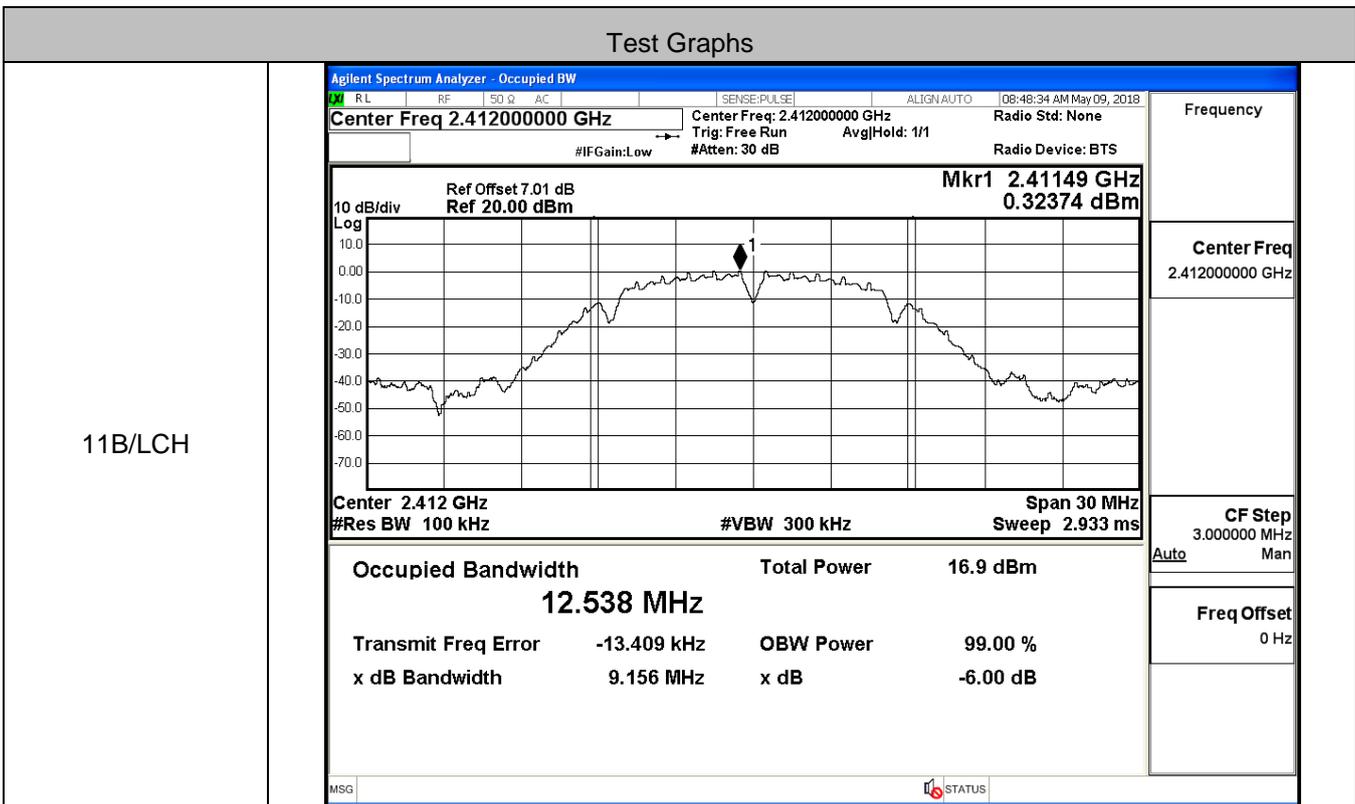


11N20SISO/HCH

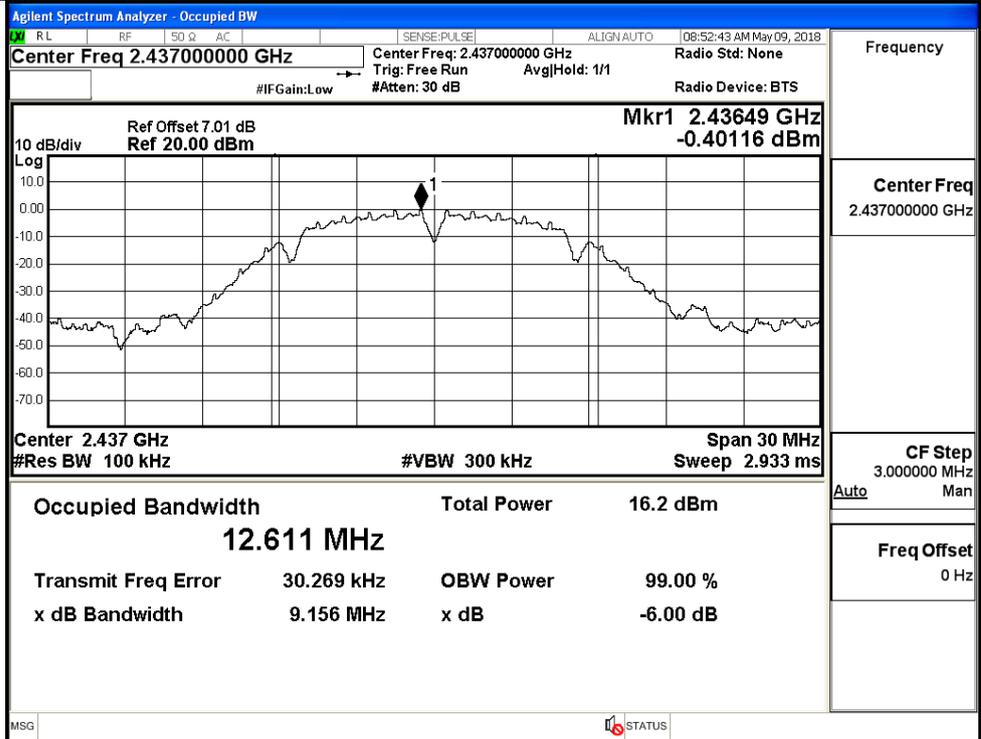


**A.4 6dB Bandwidth**

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.156	≥0.5	PASS
	MCH	9.156	≥0.5	PASS
	HCH	9.162	≥0.5	PASS
11G	LCH	16.41	≥0.5	PASS
	MCH	16.41	≥0.5	PASS
	HCH	16.41	≥0.5	PASS
11N20SISO	LCH	17.64	≥0.5	PASS
	MCH	17.62	≥0.5	PASS
	HCH	17.63	≥0.5	PASS



11B/MCH



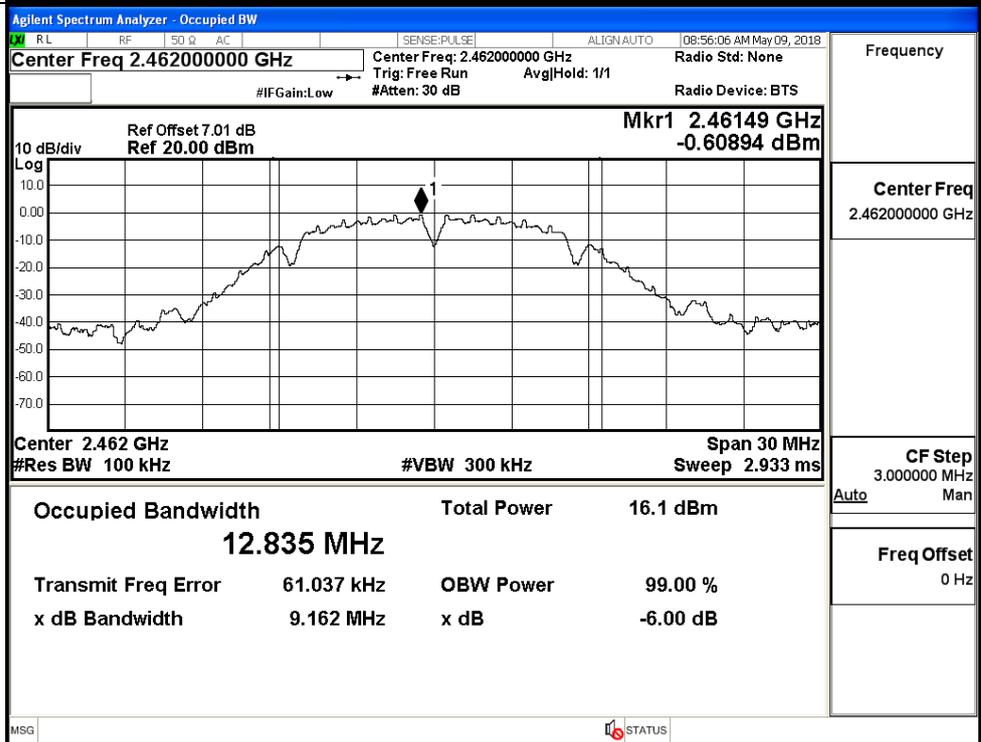
Frequency

Center Freq  
2.43700000 GHz

CF Step  
3.000000 MHz

Freq Offset  
0 Hz

11B/HCH



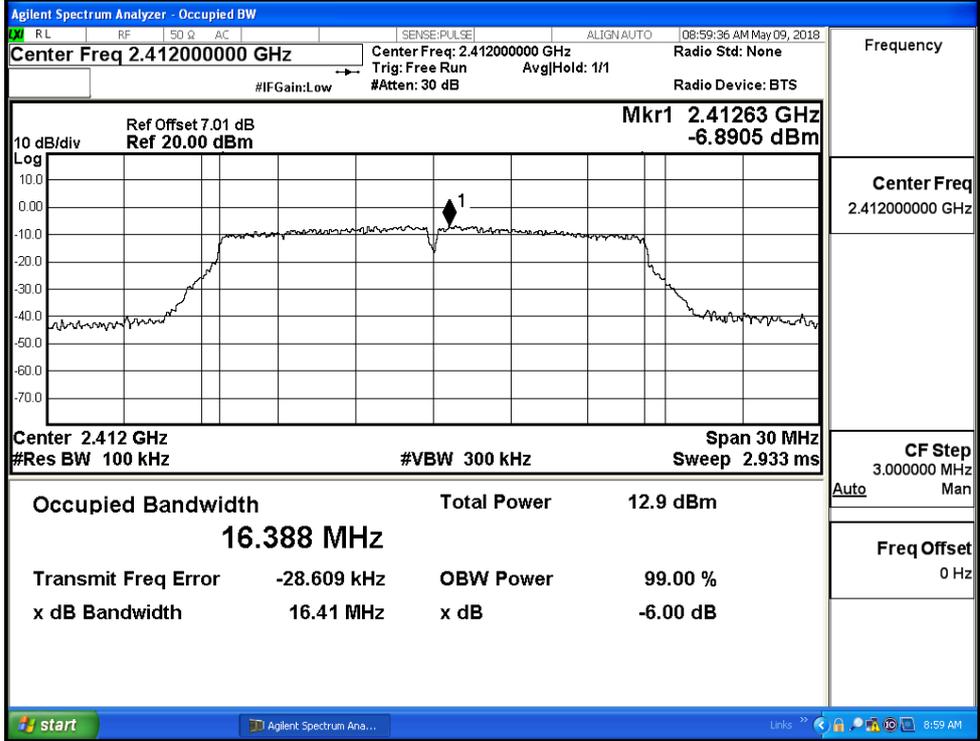
Frequency

Center Freq  
2.46200000 GHz

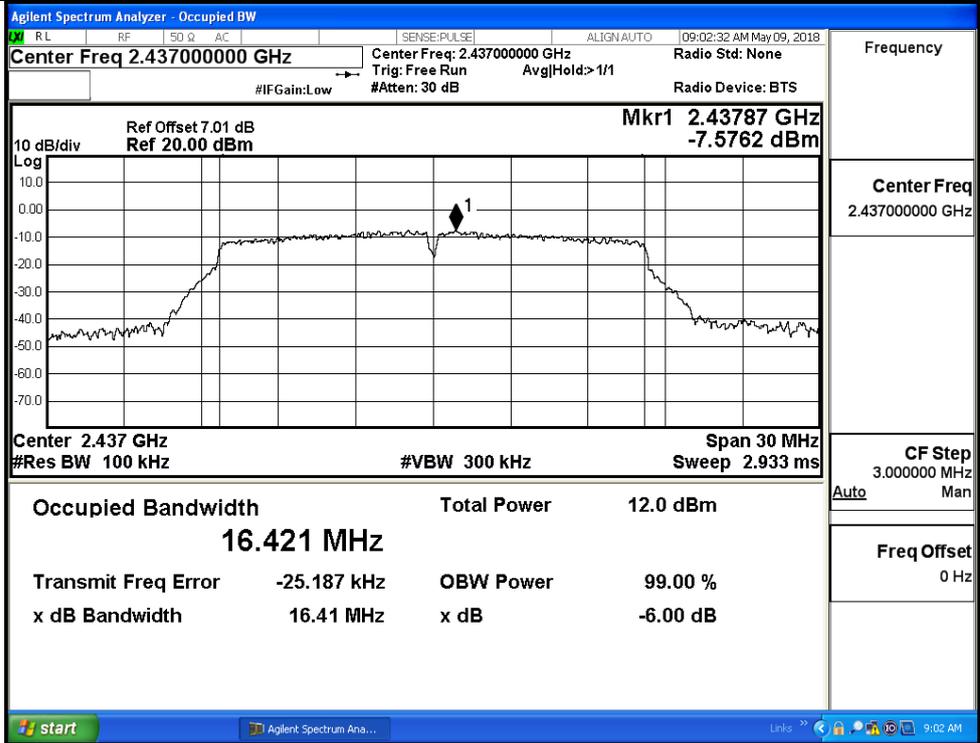
CF Step  
3.000000 MHz

Freq Offset  
0 Hz

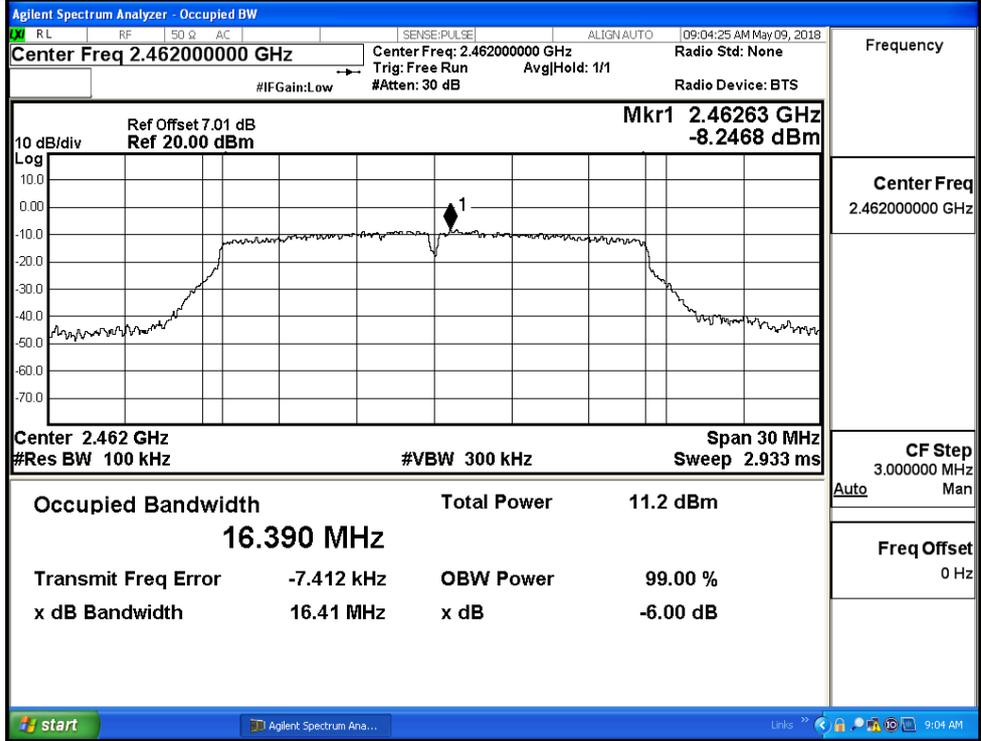
11G/LCH



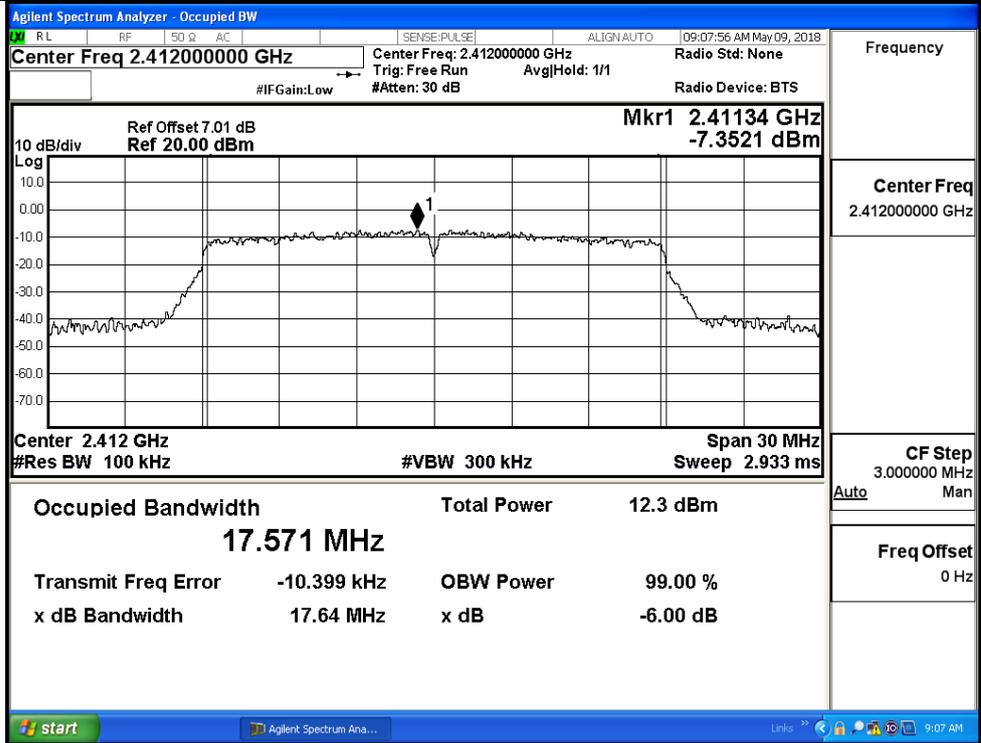
11G/MCH



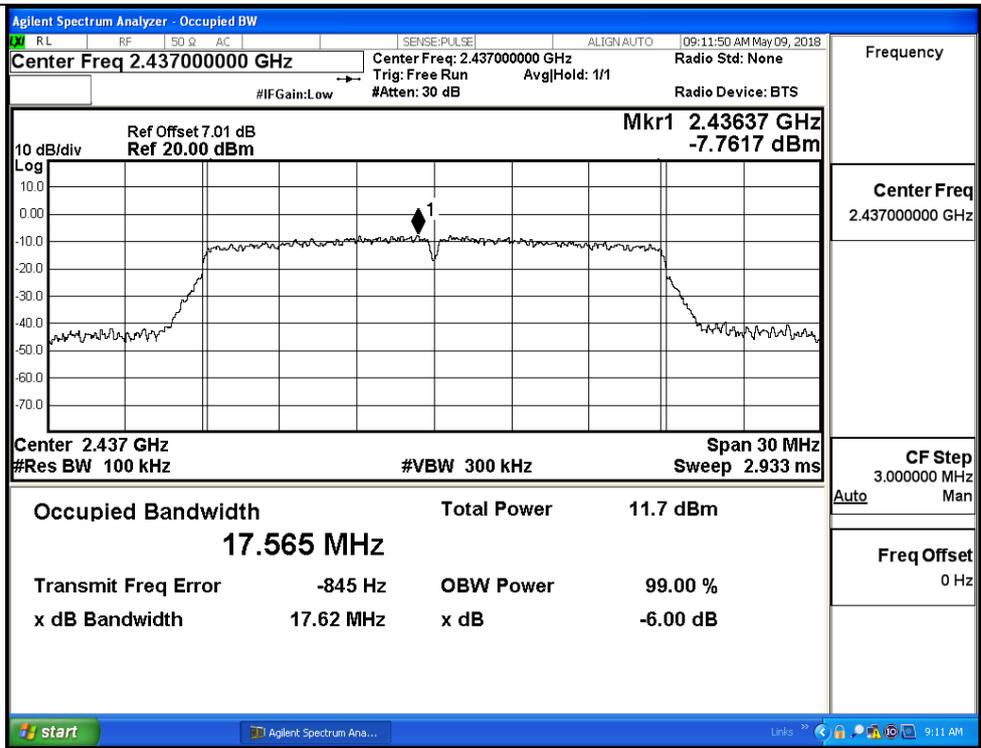
11G/HCH



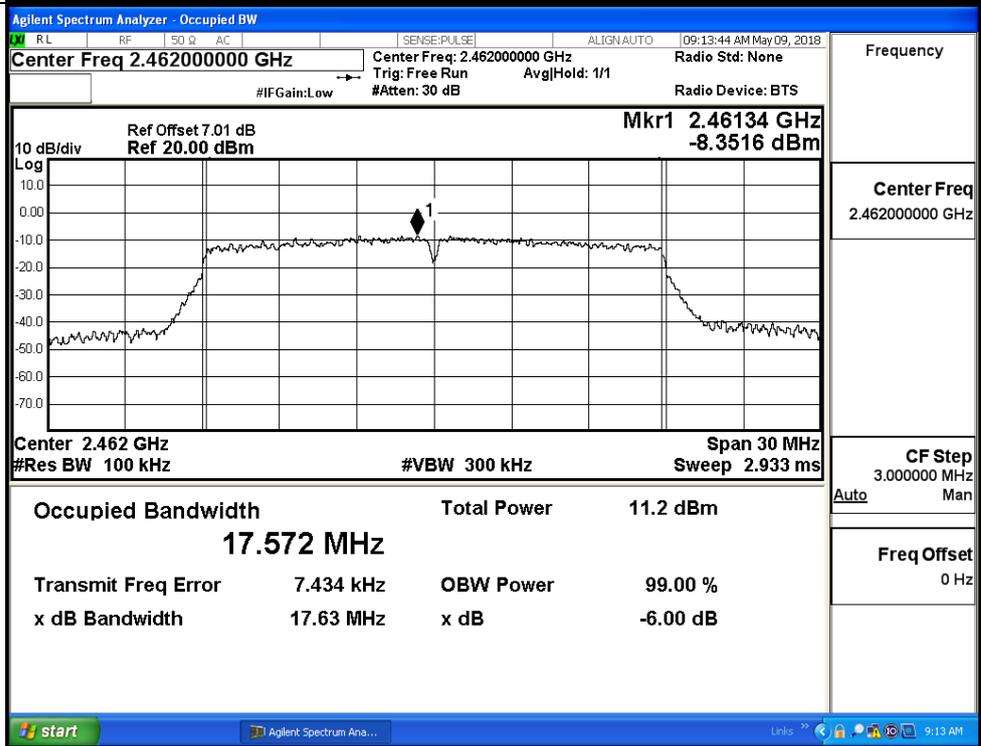
11N20SISO/LCH



11N20SISO/MCH



11N20SISO/HCH

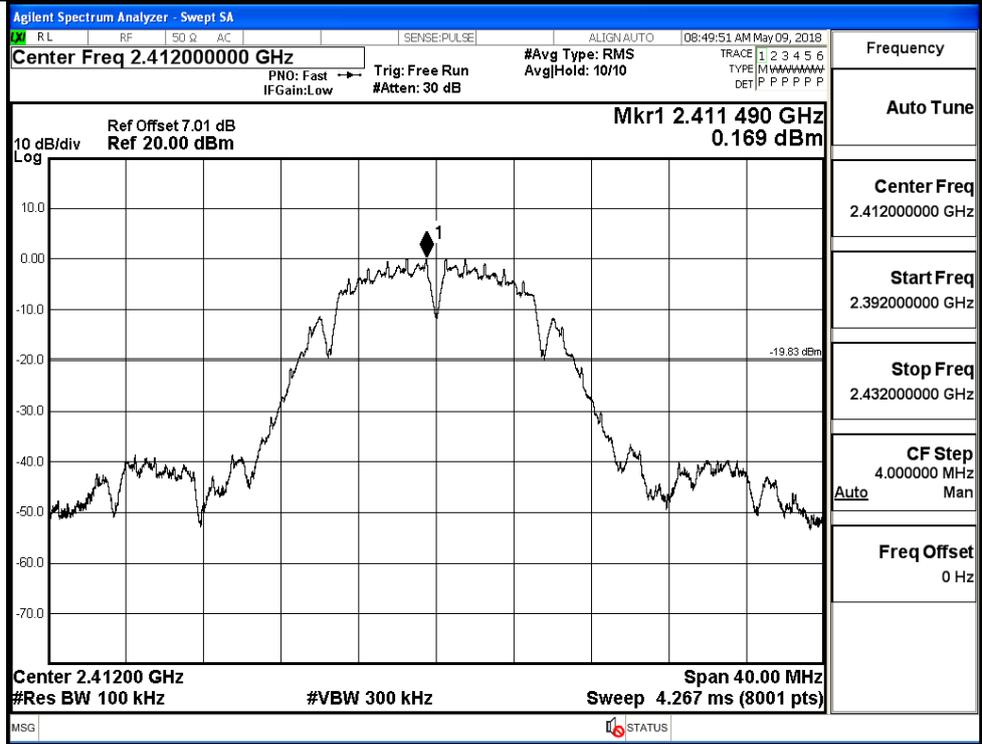


**A.5 RF Conducted Spurious Emissions**

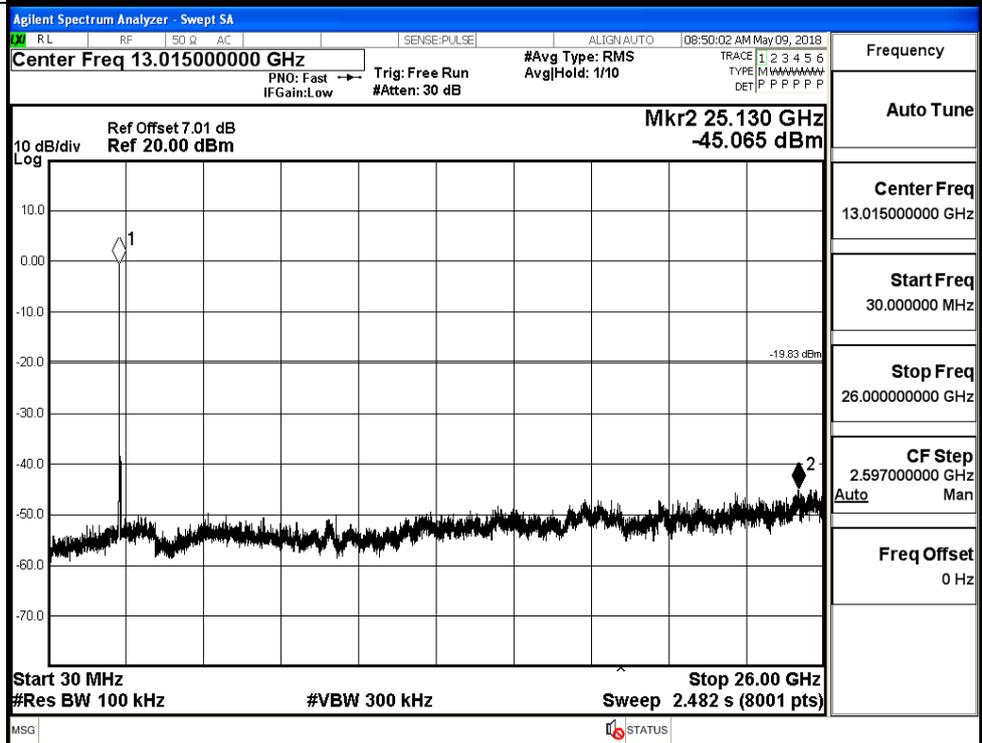
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	0.169	-45.065	-19.831	PASS
	MCH	-0.534	-45.026	-20.534	PASS
	HCH	-0.7	-29.610	-20.700	PASS
11G	LCH	-6.968	-45.160	-26.968	PASS
	MCH	-7.737	-44.801	-27.737	PASS
	HCH	-8.335	-44.481	-28.335	PASS
11N20 SISO	LCH	-7.276	-41.174	-27.276	PASS
	MCH	-7.697	-43.974	-27.697	PASS
	HCH	-8.223	-45.032	-28.223	PASS

11B\_LCH\_Graphs

Pref/11B/LCH

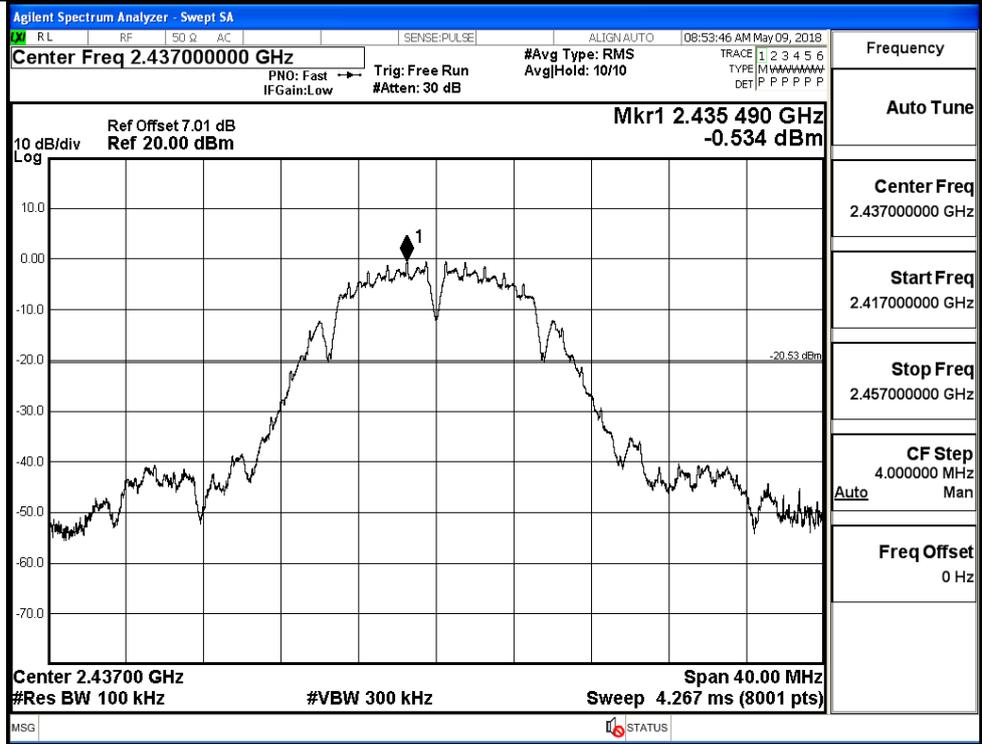


Puw/11B/LCH

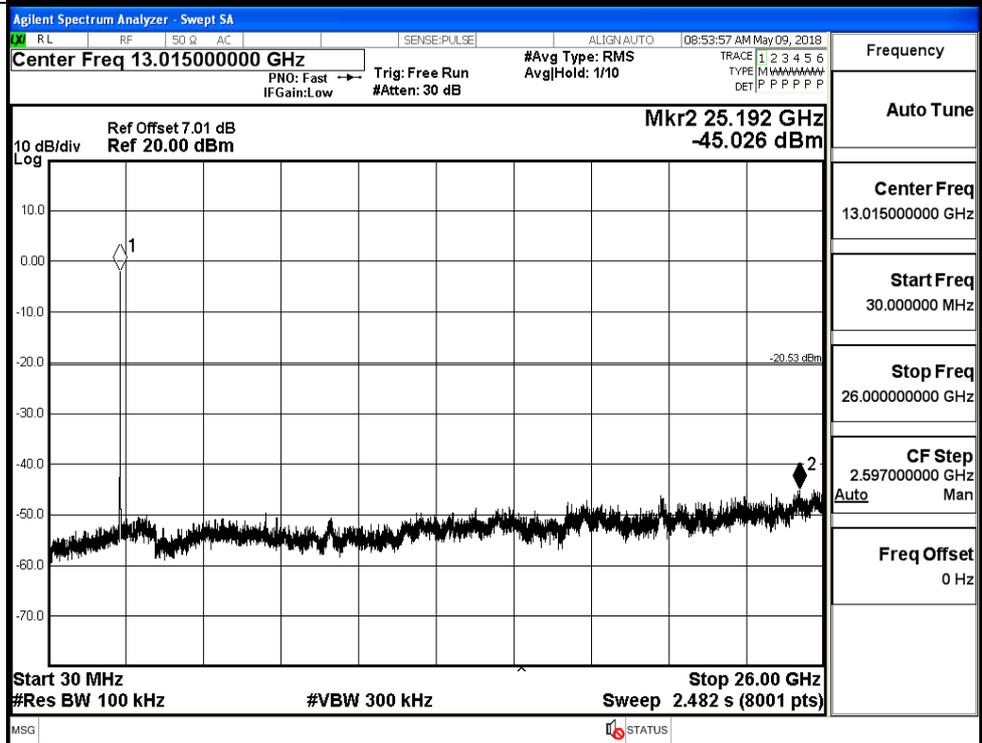


11B\_MCH\_Graphs

Pref/11B/MCH

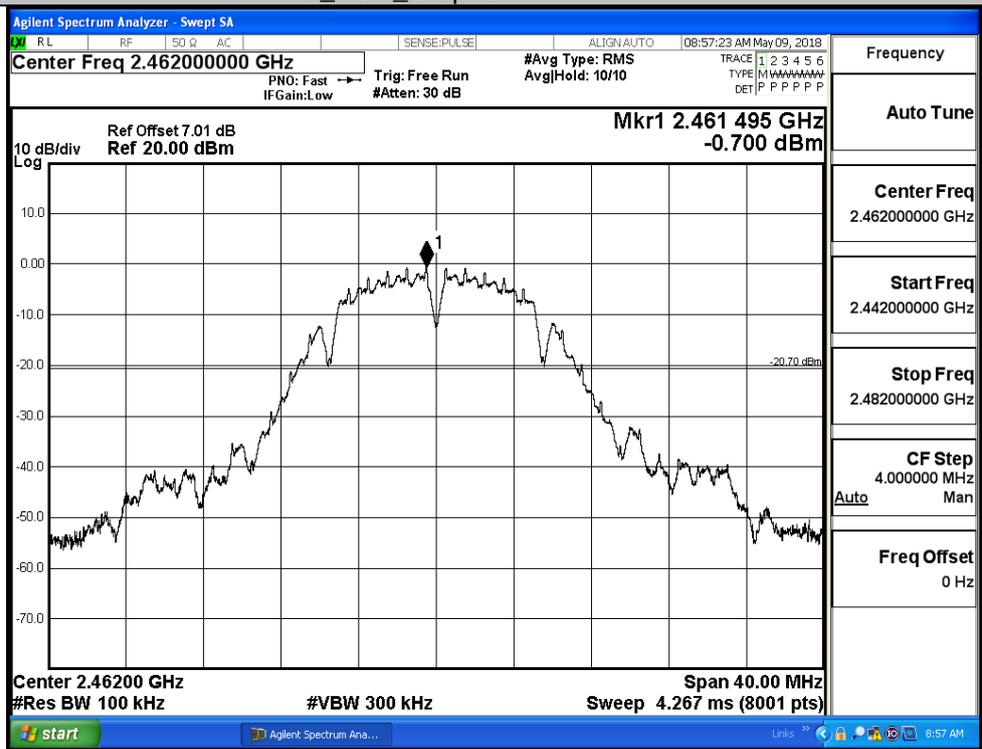


Puw/11B/MCH

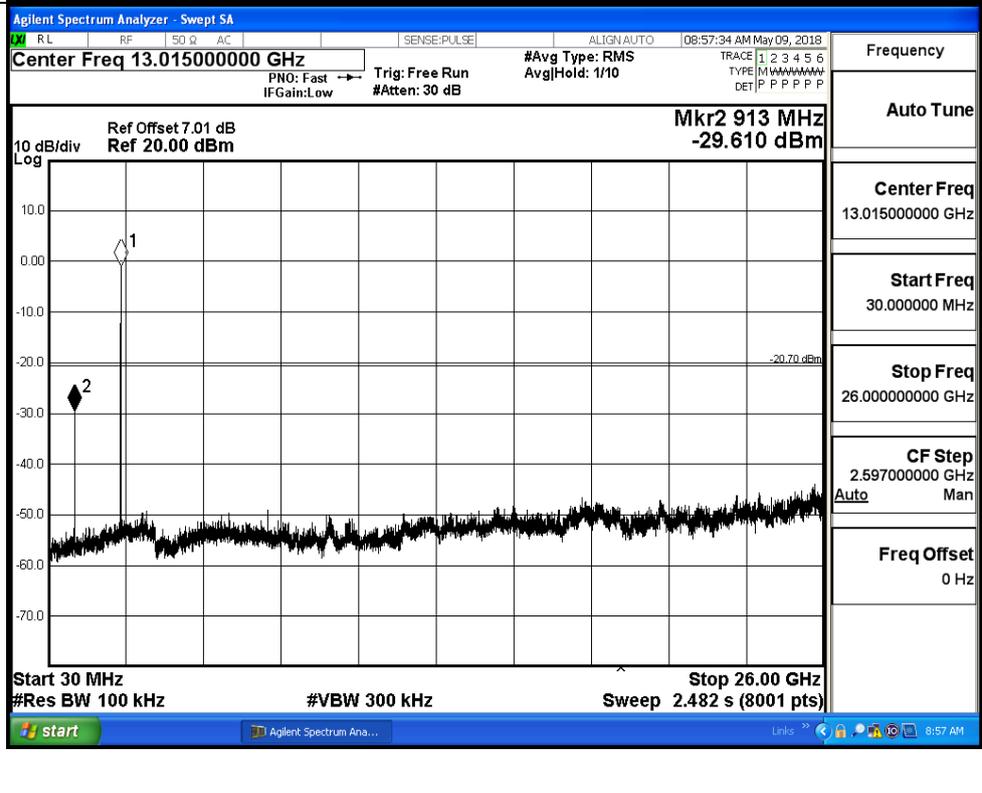


11B\_HCH\_Graphs

Pref/11B/HCH

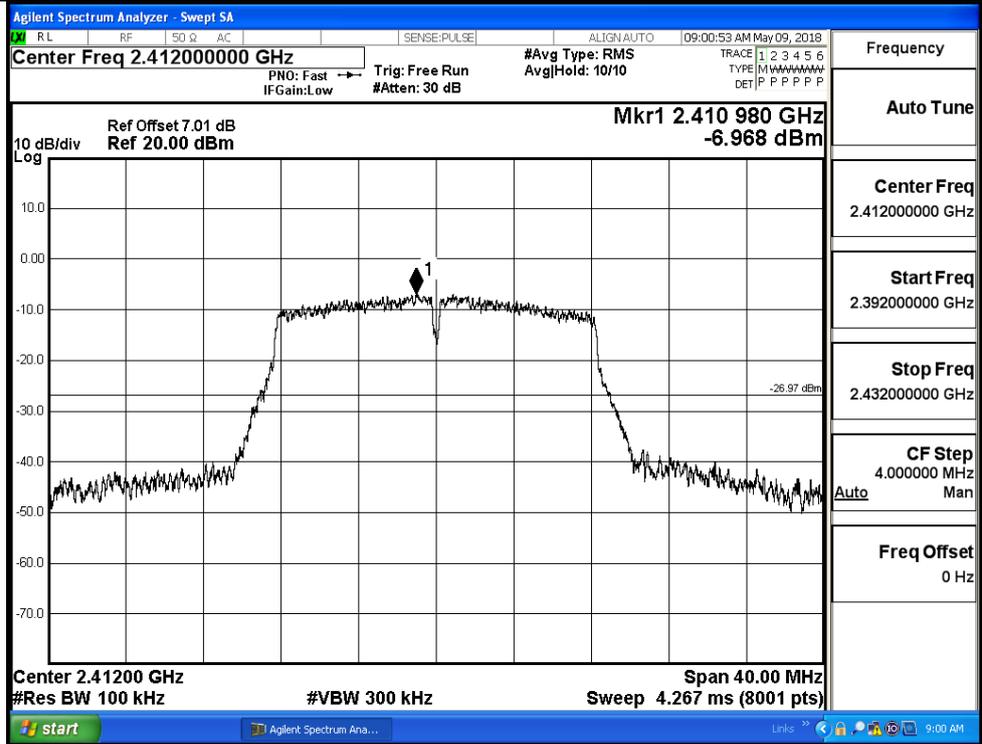


Puw/11B/HCH

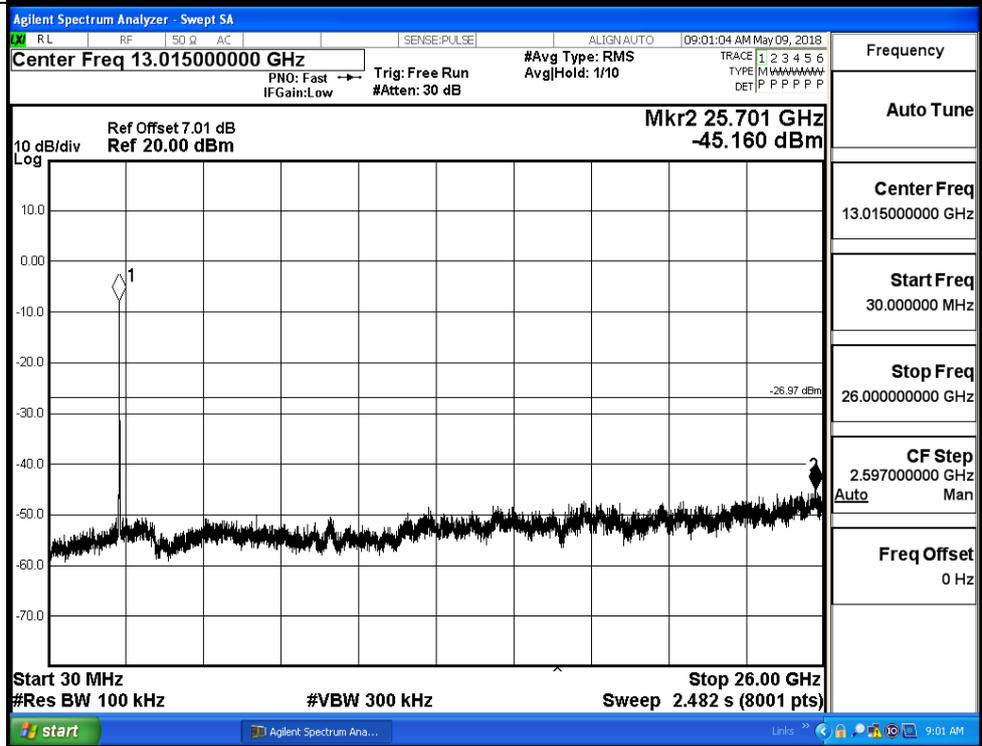


11G\_LCH\_Graphs

Pref/11G/LCH



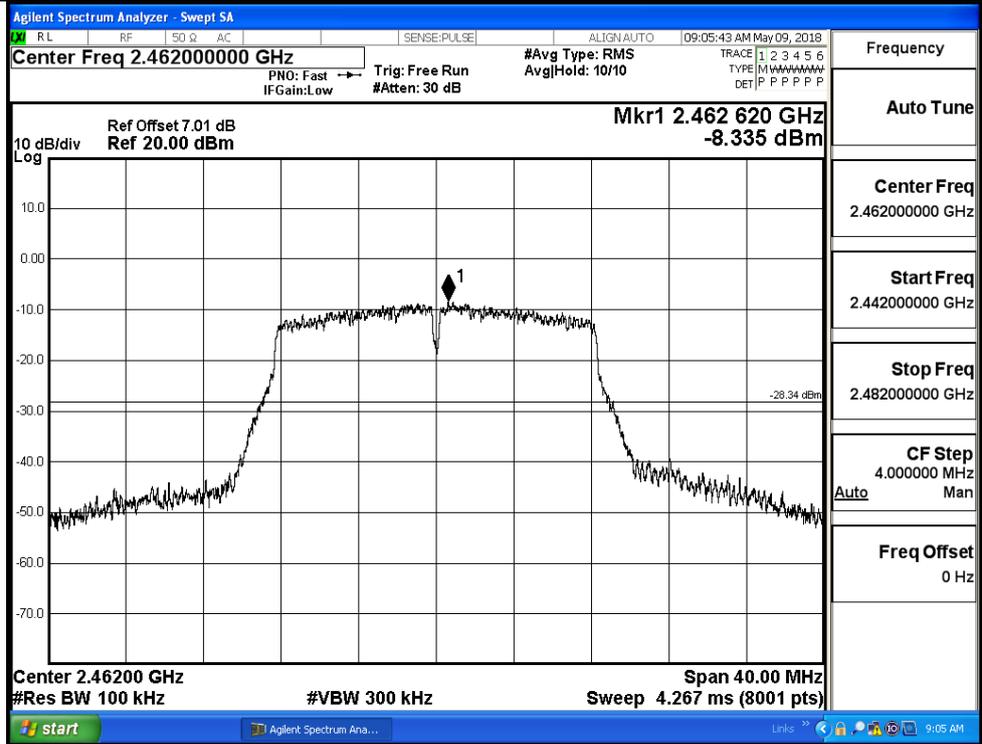
Puw/11G/LCH



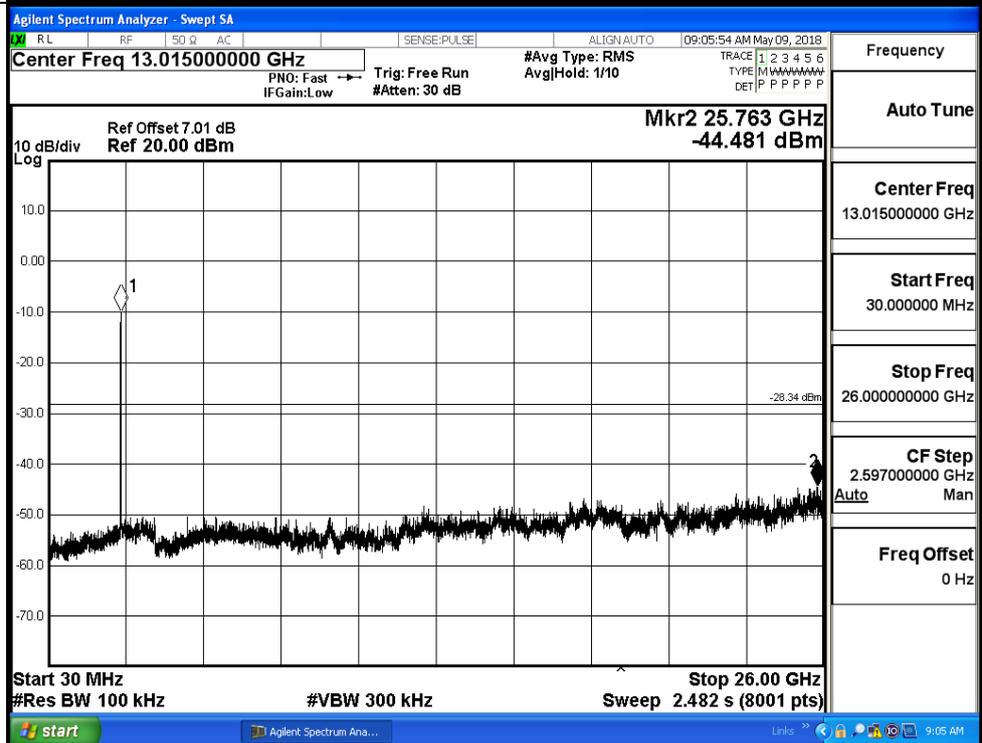


11G\_HCH\_Graphs

Pref/11G/HCH

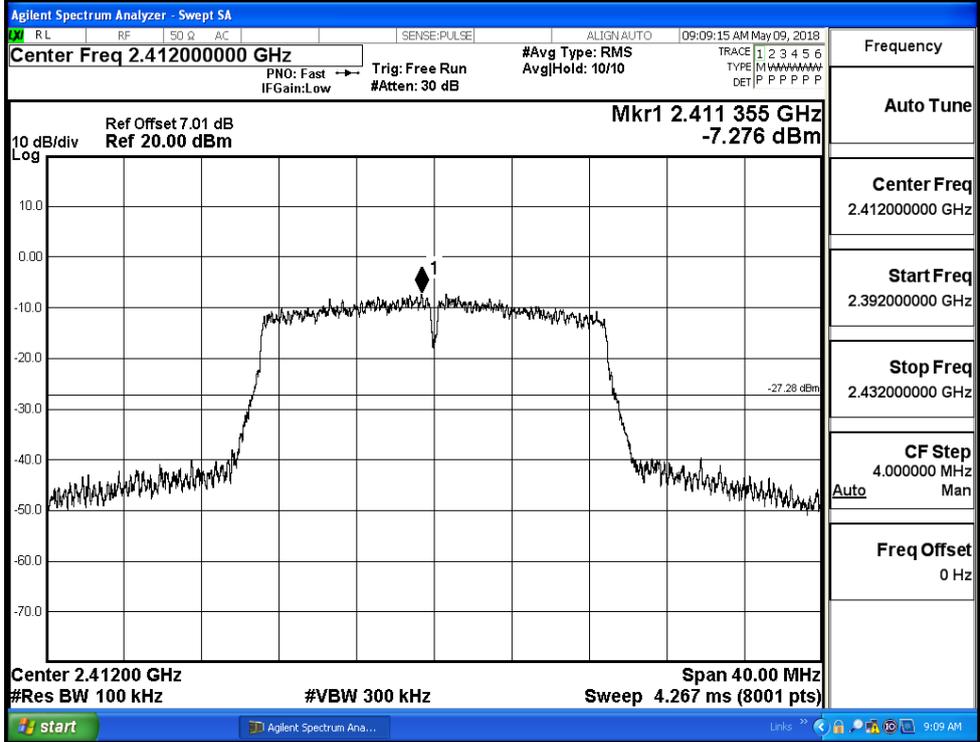


Puw/11G/HCH

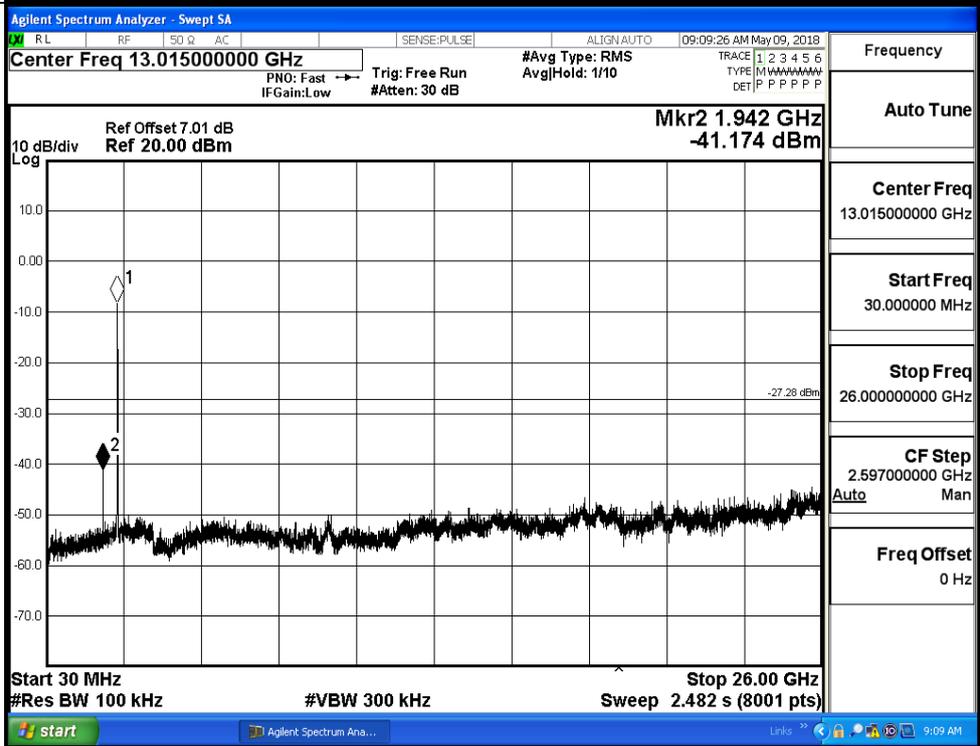


11N20SISO\_LCH\_Graphs

Pref/11N20SIS  
O/LCH

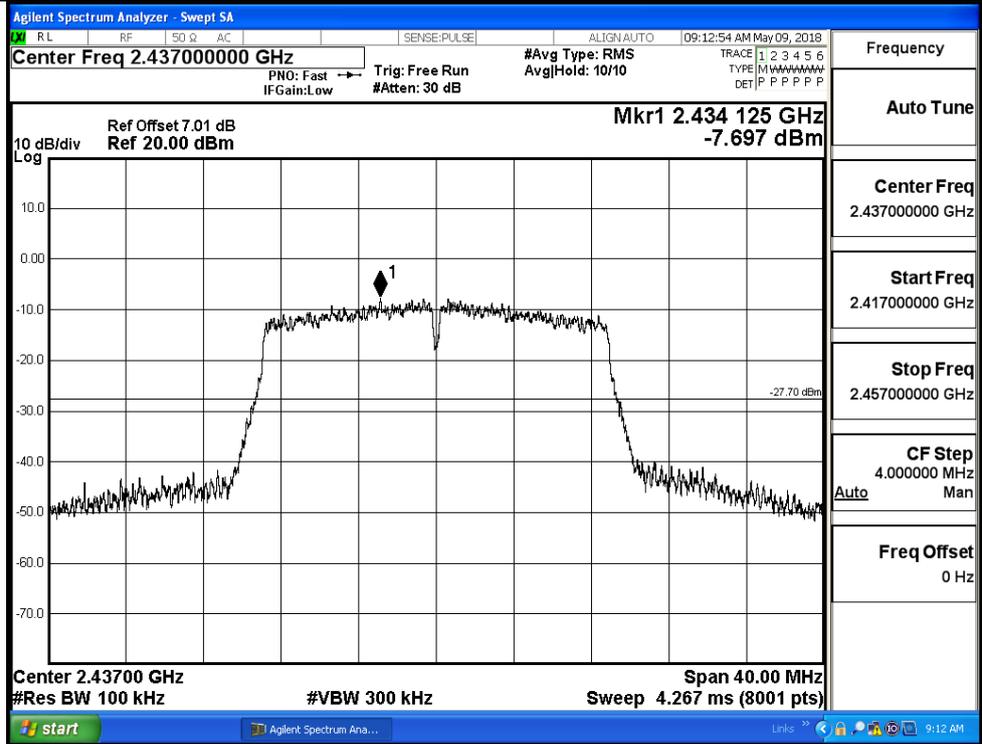


Puw/11N20  
SISO/LCH

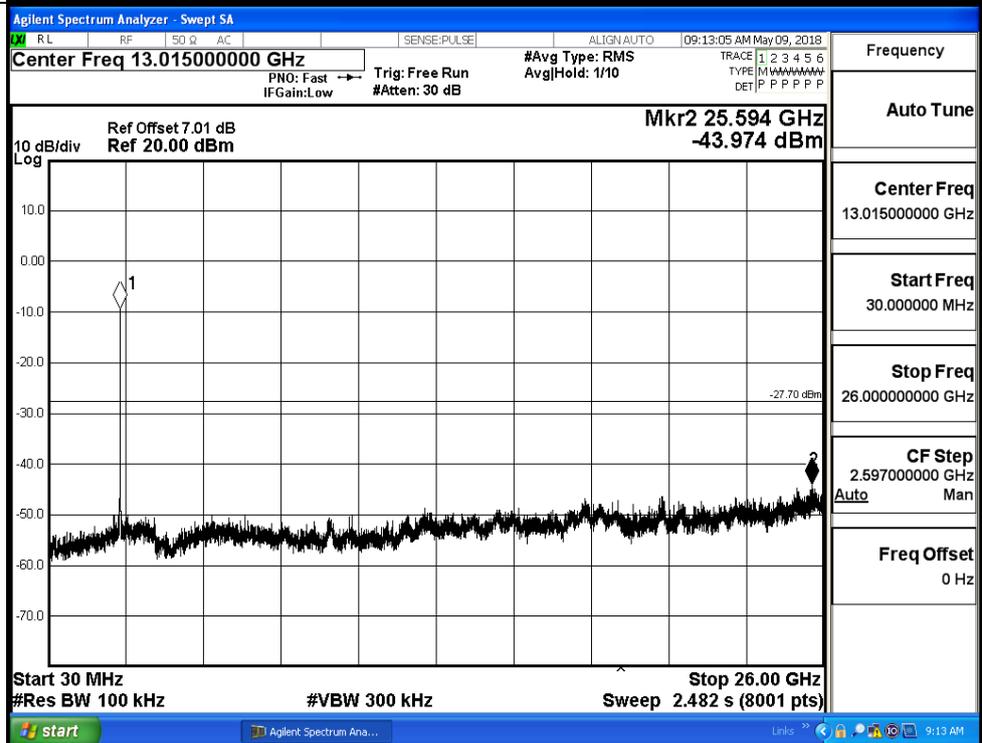


11N20SISO\_MCH\_Graphs

Pref/11N20  
SISO/MCH

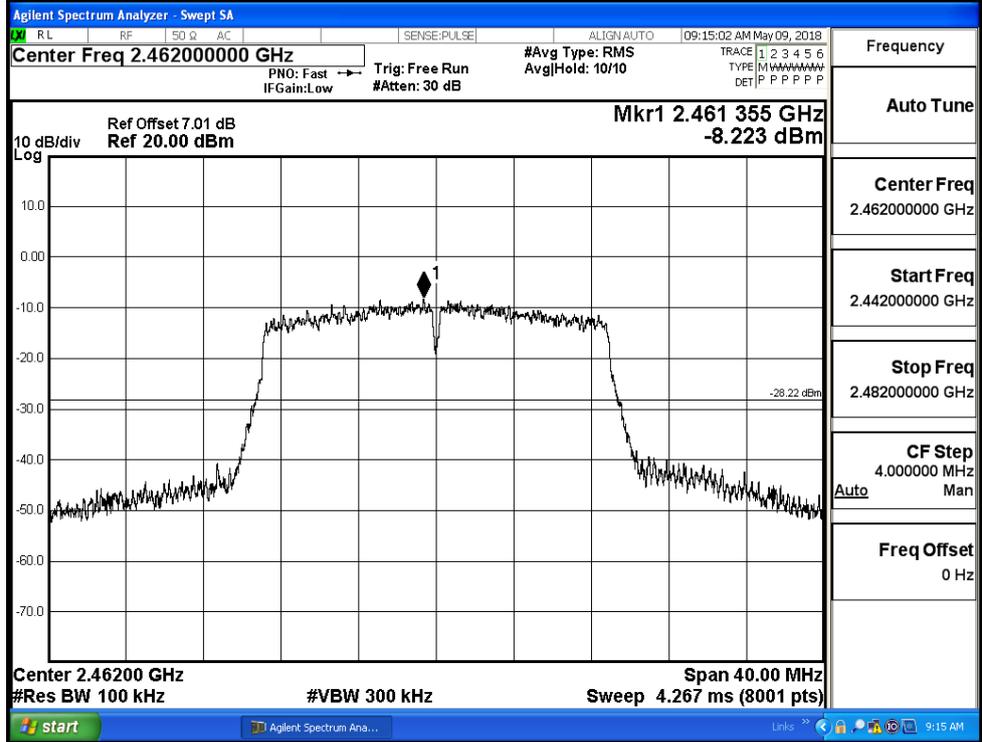


Puw/11N20  
SISO/MCH

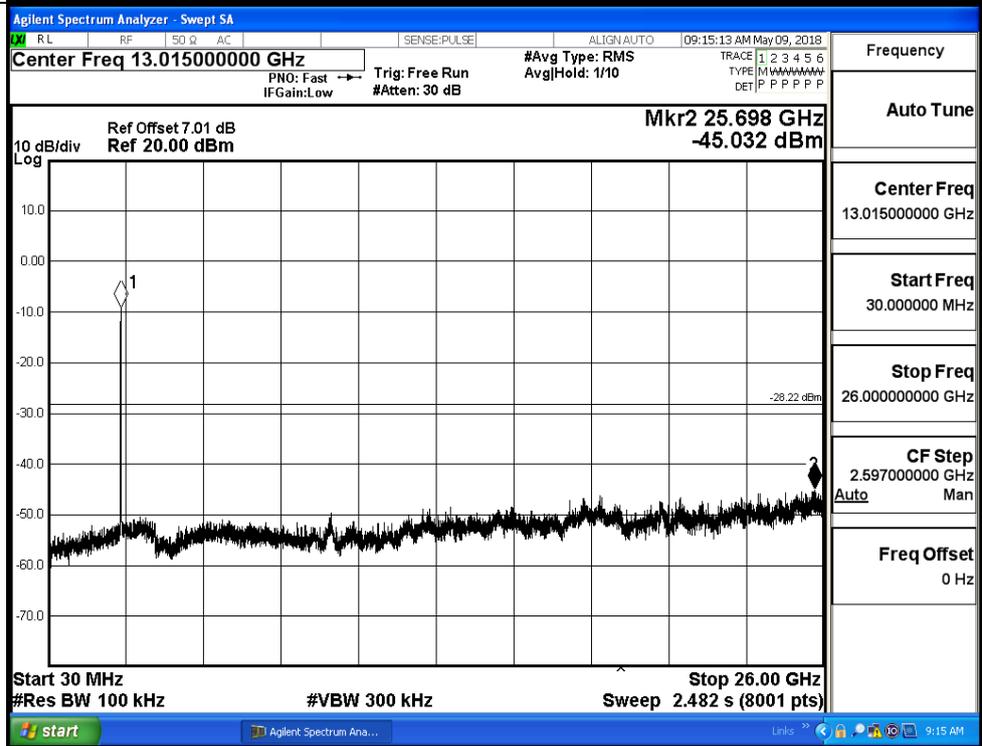


11N20SISO\_HCH\_Graphs

Pref/11N20  
SISO/HCH

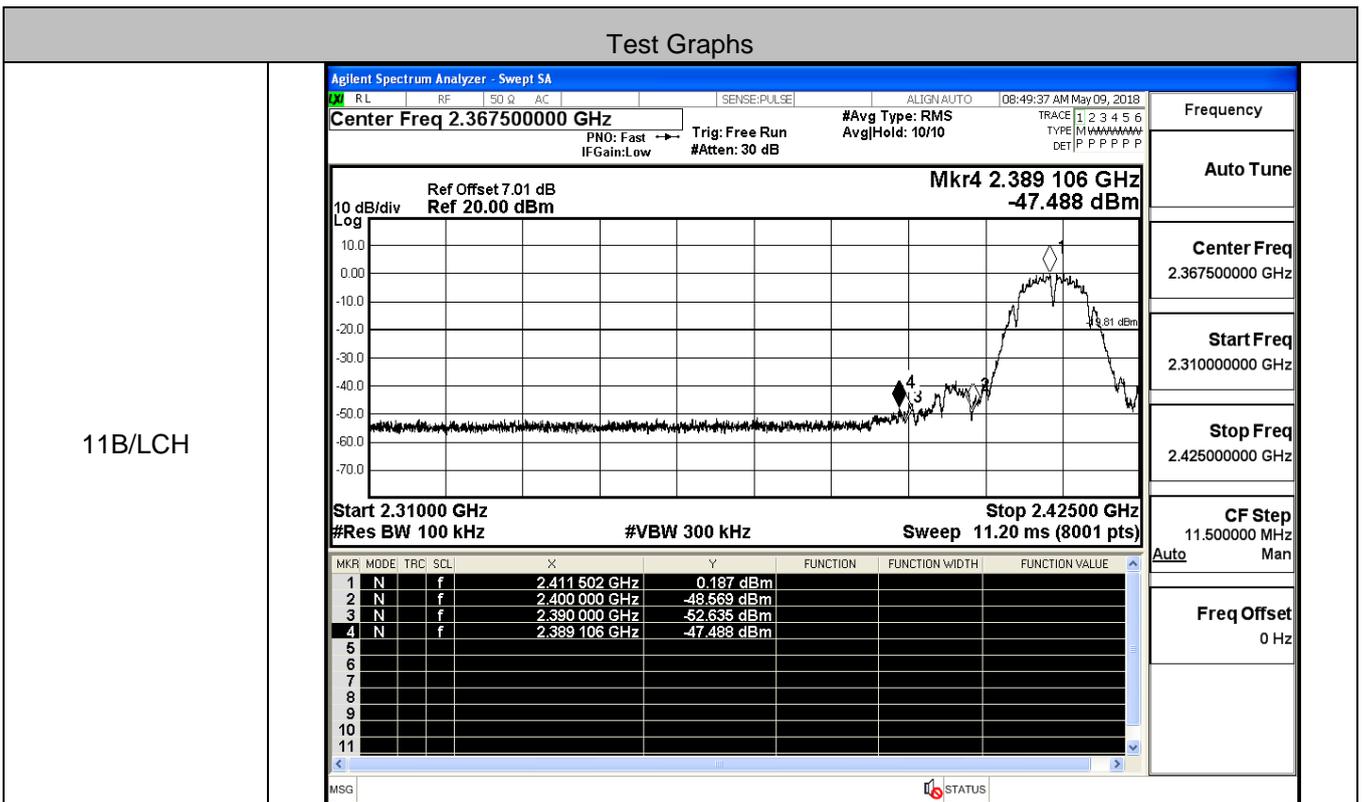


Puw/11N20  
SISO/HCH

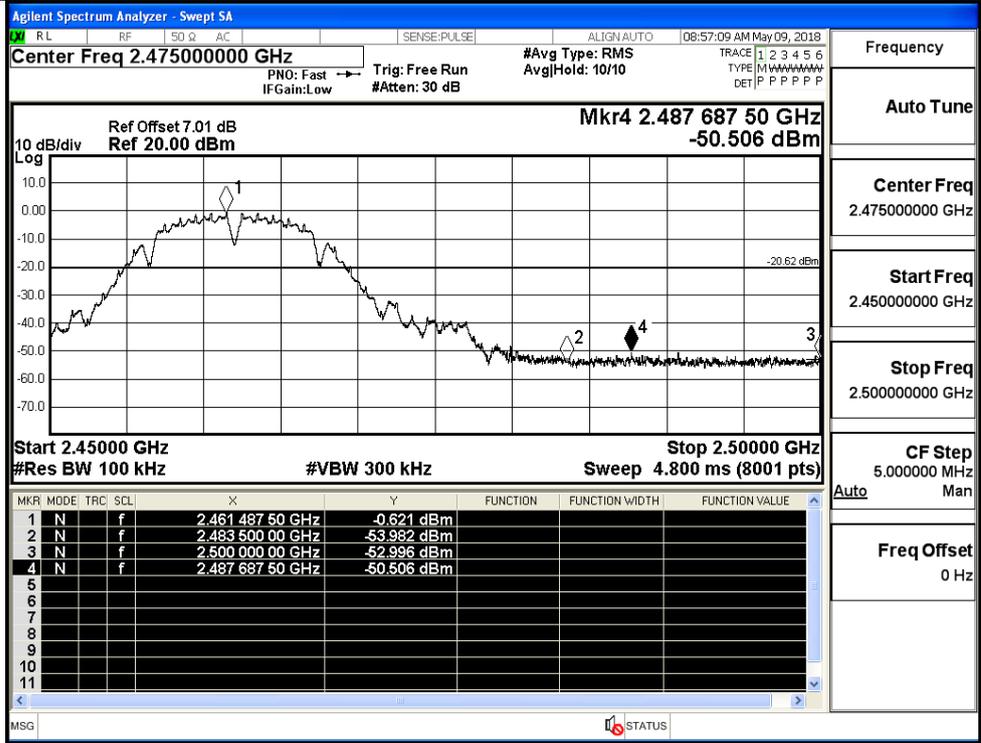


### A.6 Band-edge for RF Conducted Emissions

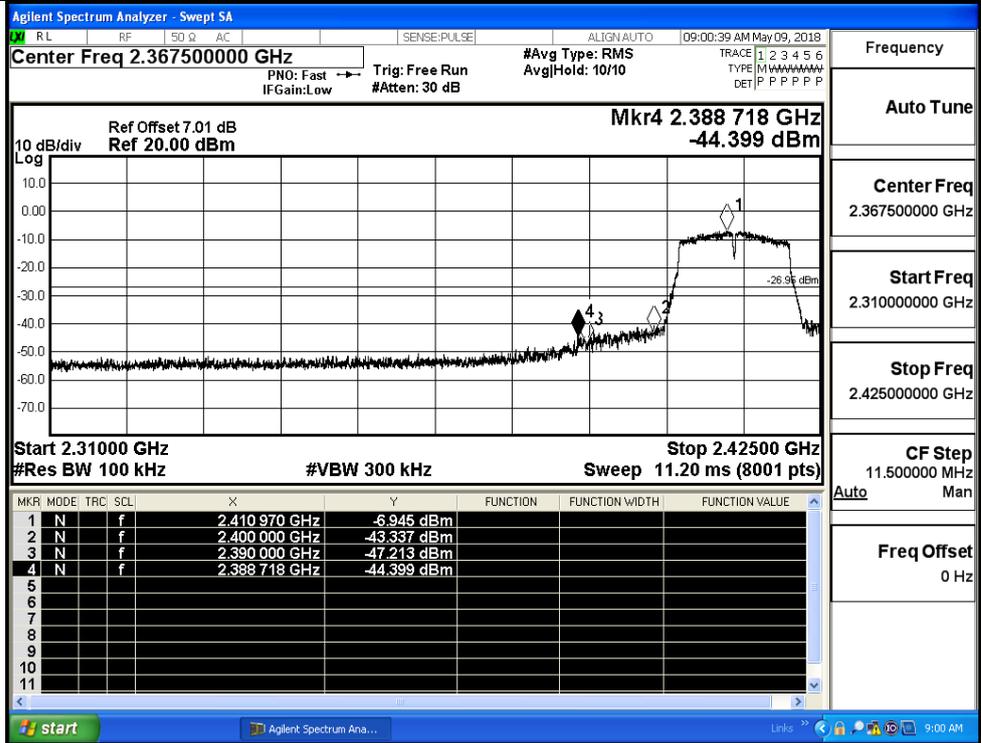
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	0.187	-47.488	-19.81	PASS
	HCH	-0.621	-50.506	-20.62	PASS
11G	LCH	-6.945	-44.399	-26.95	PASS
	HCH	-8.440	-50.016	-28.44	PASS
11N20SISO	LCH	-7.250	-47.252	-27.25	PASS
	HCH	-8.241	-49.961	-28.24	PASS



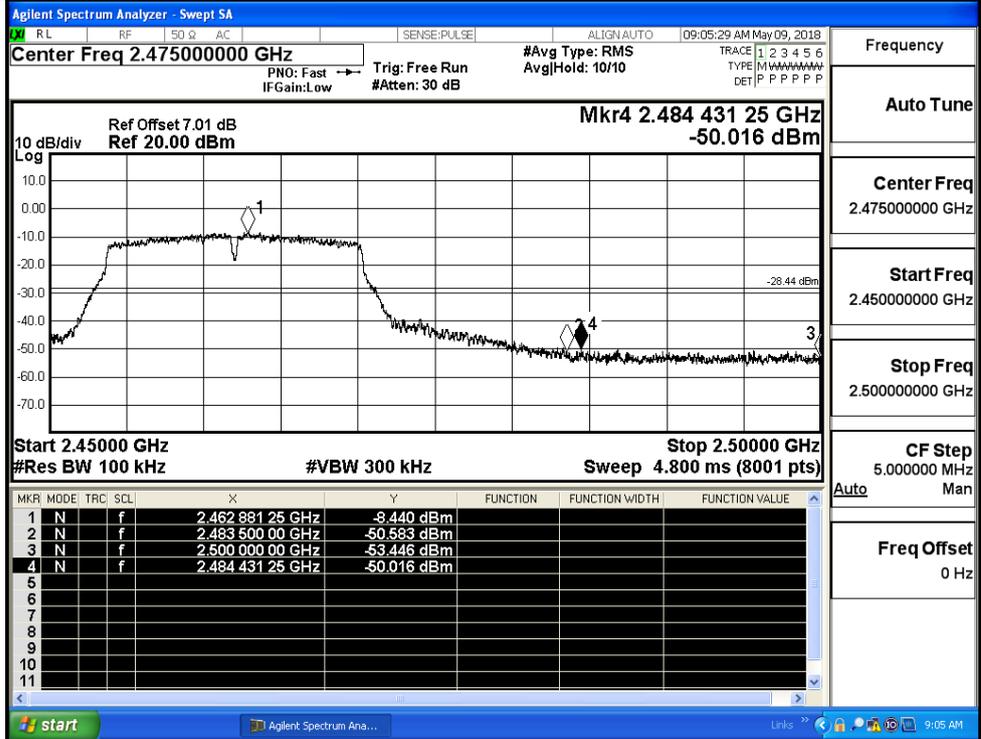
11B/HCH



11G/LCH



11G/HCH



Frequency

Auto Tune

Center Freq  
2.47500000 GHz

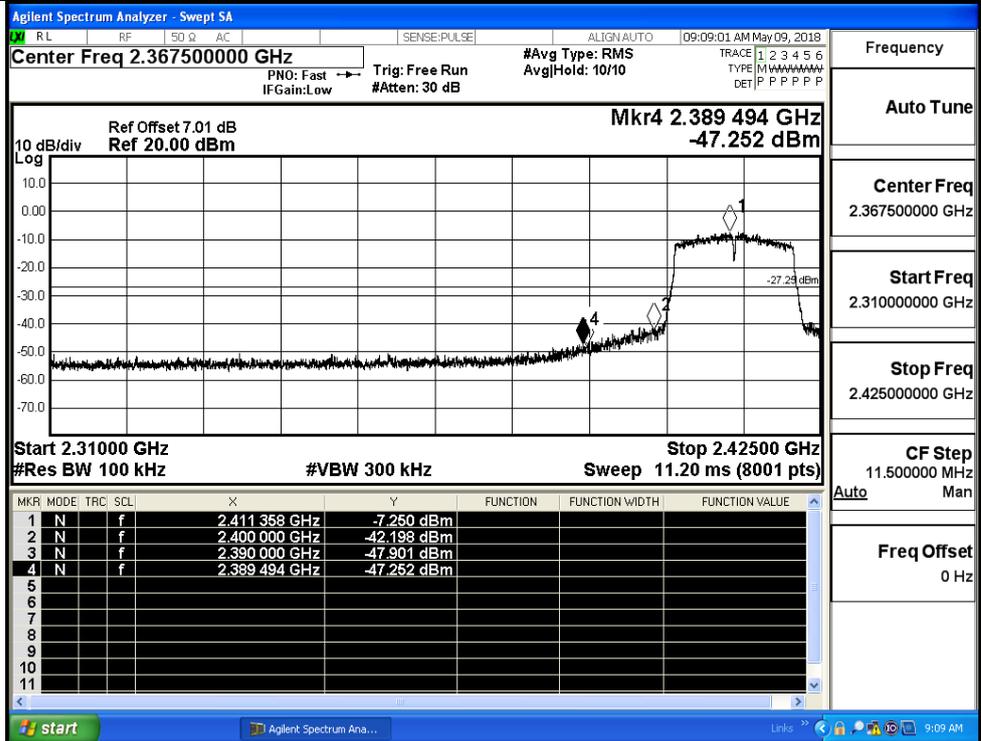
Start Freq  
2.45000000 GHz

Stop Freq  
2.50000000 GHz

CF Step  
5.000000 MHz

Freq Offset  
0 Hz

11N20SISO/LCH



Frequency

Auto Tune

Center Freq  
2.36750000 GHz

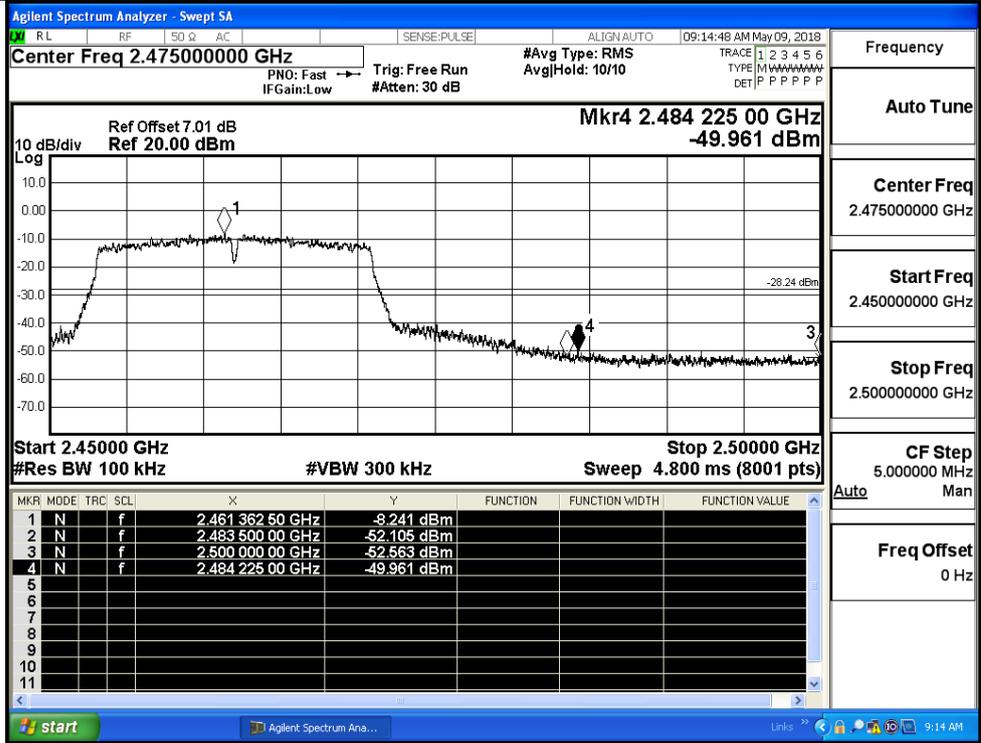
Start Freq  
2.31000000 GHz

Stop Freq  
2.42500000 GHz

CF Step  
11.500000 MHz

Freq Offset  
0 Hz

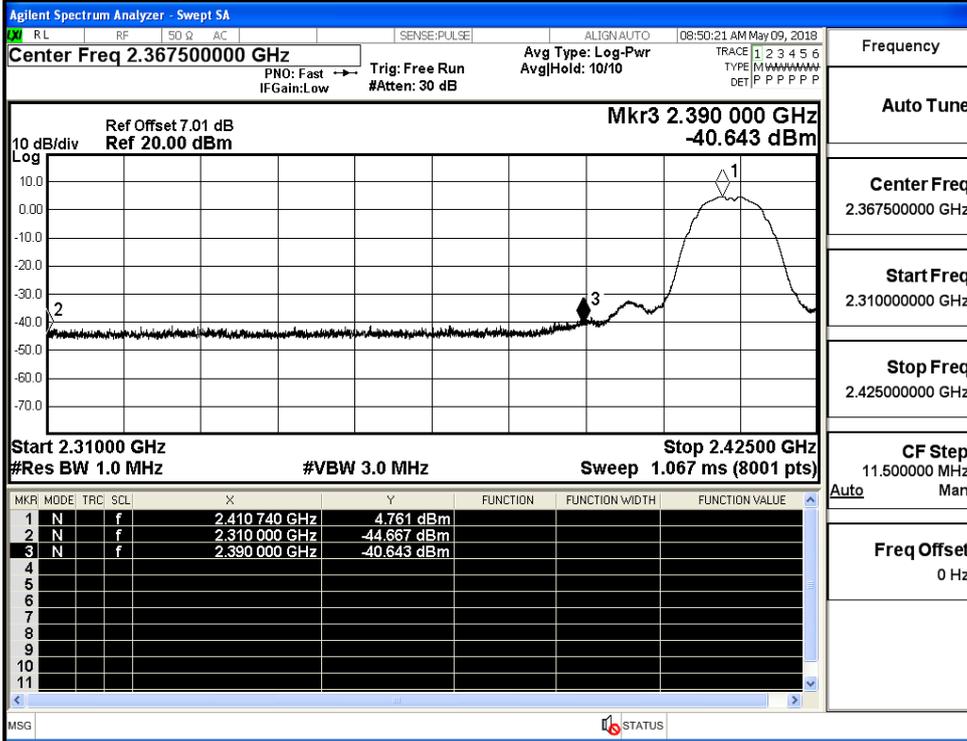
11N20SISO/HCH



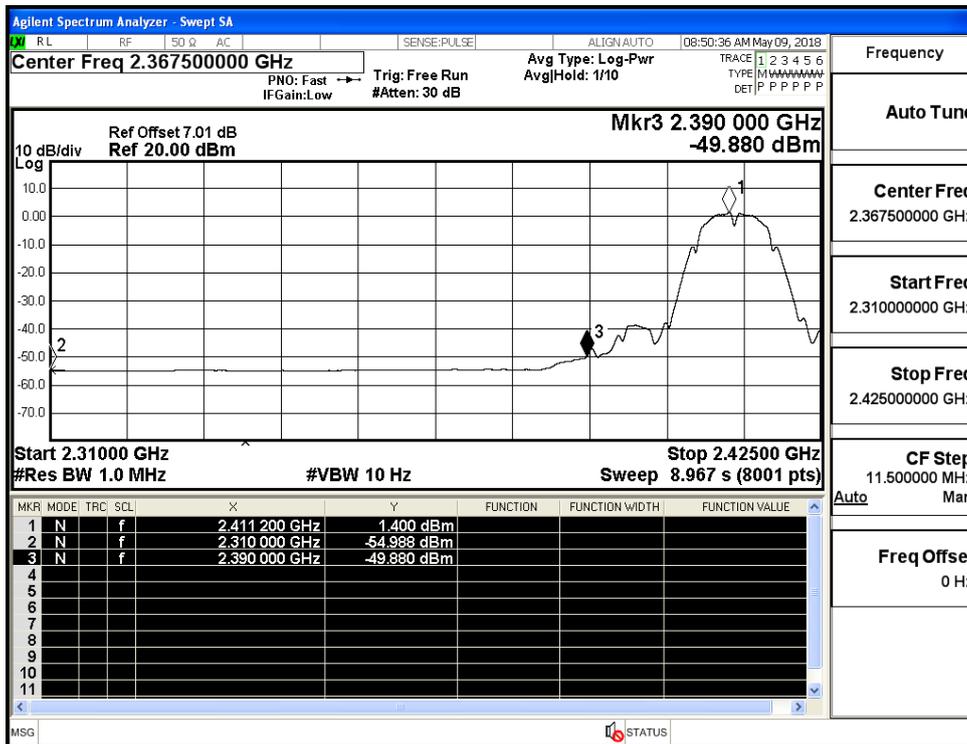
## A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
11B	2412	Ant1	2310.0	-44.67	2.0	0	52.59	PEAK	74	PASS
	2412	Ant1	2310.0	-54.99	2.0	0	42.27	AV	54	PASS
	2412	Ant1	2390.0	-40.64	2.0	0	56.61	PEAK	74	PASS
	2412	Ant1	2390.0	-49.88	2.0	0	47.38	AV	54	PASS
	2462	Ant1	2483.5	-43.63	2.0	0	53.63	PEAK	74	PASS
	2462	Ant1	2483.5	-53.79	2.0	0	43.46	AV	54	PASS
	2462	Ant1	2500.0	-44.82	2.0	0	52.44	PEAK	74	PASS
	2462	Ant1	2500.0	-54.15	2.0	0	43.11	AV	54	PASS
11G	2412	Ant1	2310.0	-44.28	2.0	0	52.98	PEAK	74	PASS
	2412	Ant1	2310.0	-54.90	2.0	0	42.36	AV	54	PASS
	2412	Ant1	2390.0	-31.81	2.0	0	65.45	PEAK	74	PASS
	2412	Ant1	2390.0	-49.53	2.0	0	47.73	AV	54	PASS
	2462	Ant1	2483.5	-41.88	2.0	0	55.38	PEAK	74	PASS
	2462	Ant1	2483.5	-52.89	2.0	0	44.37	AV	54	PASS
	2462	Ant1	2500.0	-41.18	2.0	0	56.08	PEAK	74	PASS
	2462	Ant1	2500.0	-53.97	2.0	0	43.29	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-44.95	2.0	0	52.30	PEAK	74	PASS
	2412	Ant1	2310.0	-54.86	2.0	0	42.40	AV	54	PASS
	2412	Ant1	2390.0	-36.85	2.0	0	60.41	PEAK	74	PASS
	2412	Ant1	2390.0	-50.02	2.0	0	47.24	AV	54	PASS
	2462	Ant1	2483.5	-40.71	2.0	0	56.55	PEAK	74	PASS
	2462	Ant1	2483.5	-52.30	2.0	0	44.95	AV	54	PASS
	2462	Ant1	2500.0	-43.47	2.0	0	53.79	PEAK	74	PASS
	2462	Ant1	2500.0	-53.87	2.0	0	43.39	AV	54	PASS

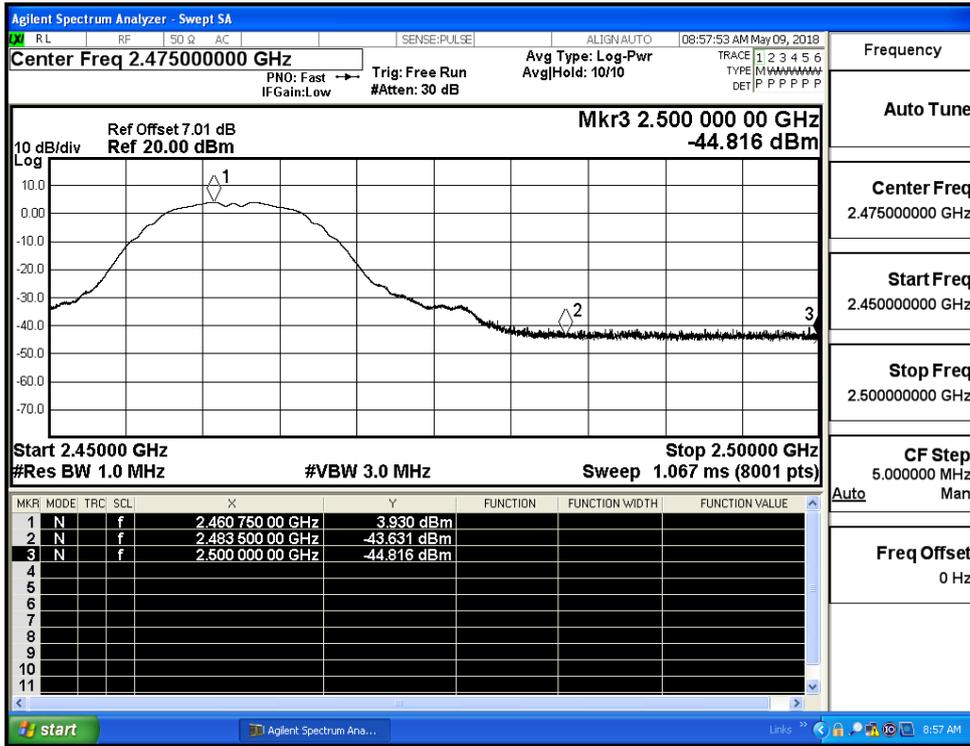
Restrict-band band-edge measurements\_11B\_2412\_Ant1\_PEAK



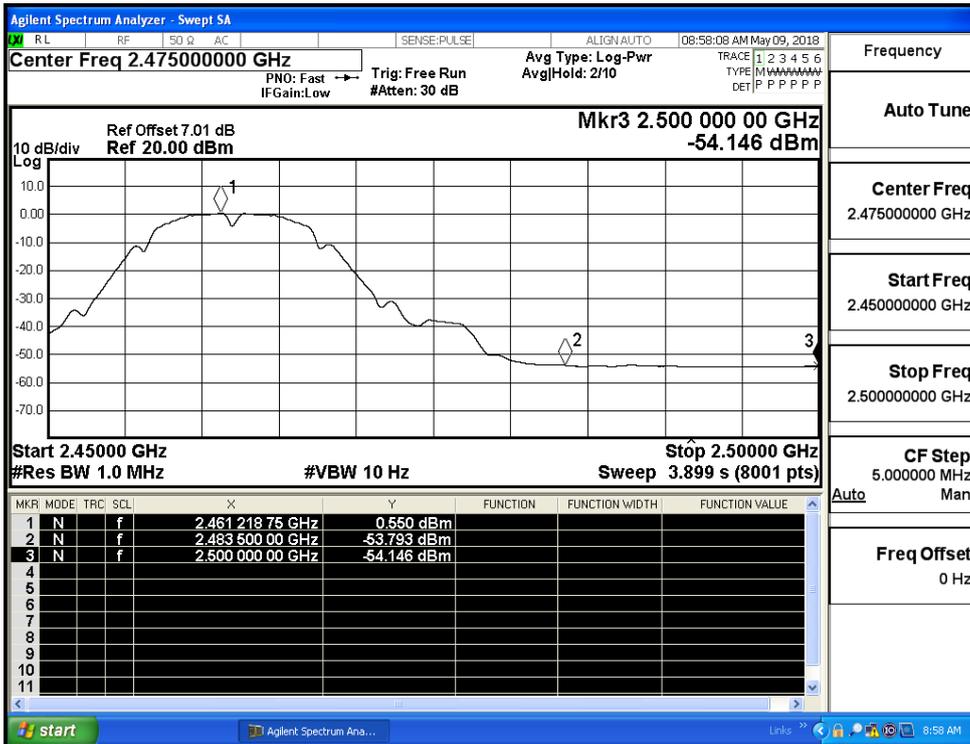
Restrict-band band-edge measurements\_11B\_2412\_Ant1\_AV



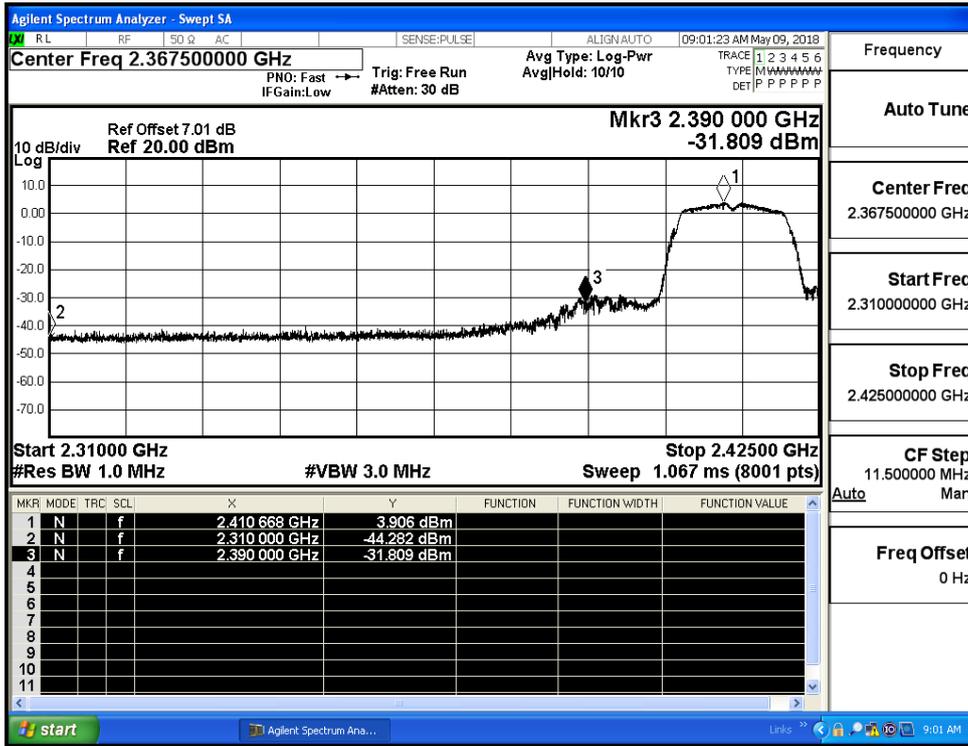
Restrict-band band-edge measurements\_11B\_2462\_Ant1\_PEAK



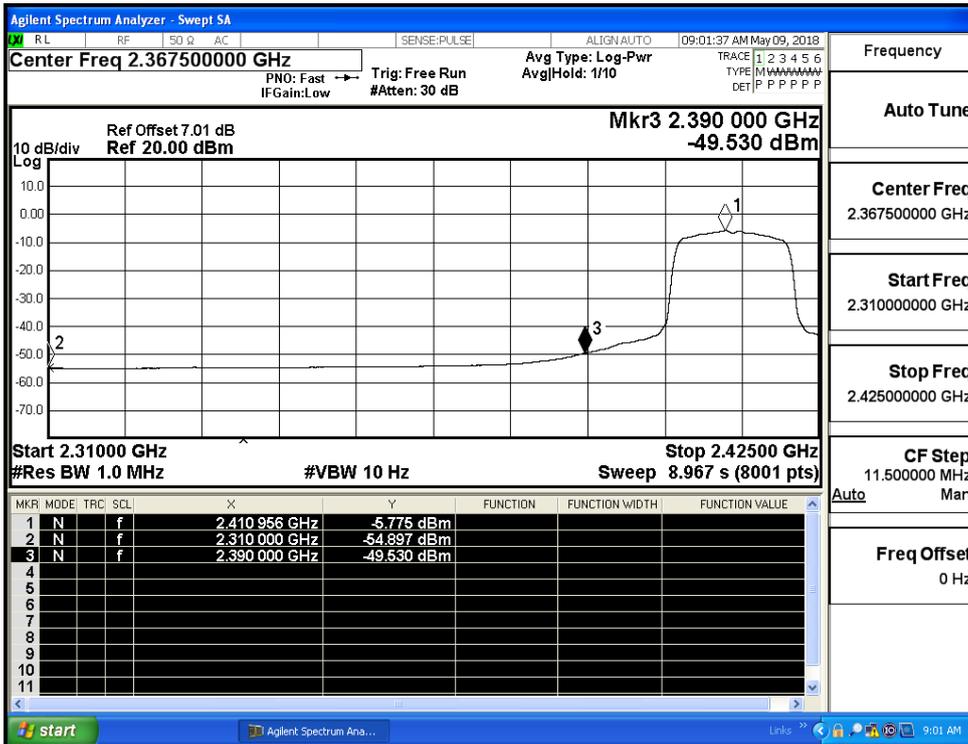
Restrict-band band-edge measurements\_11B\_2462\_Ant1\_AV



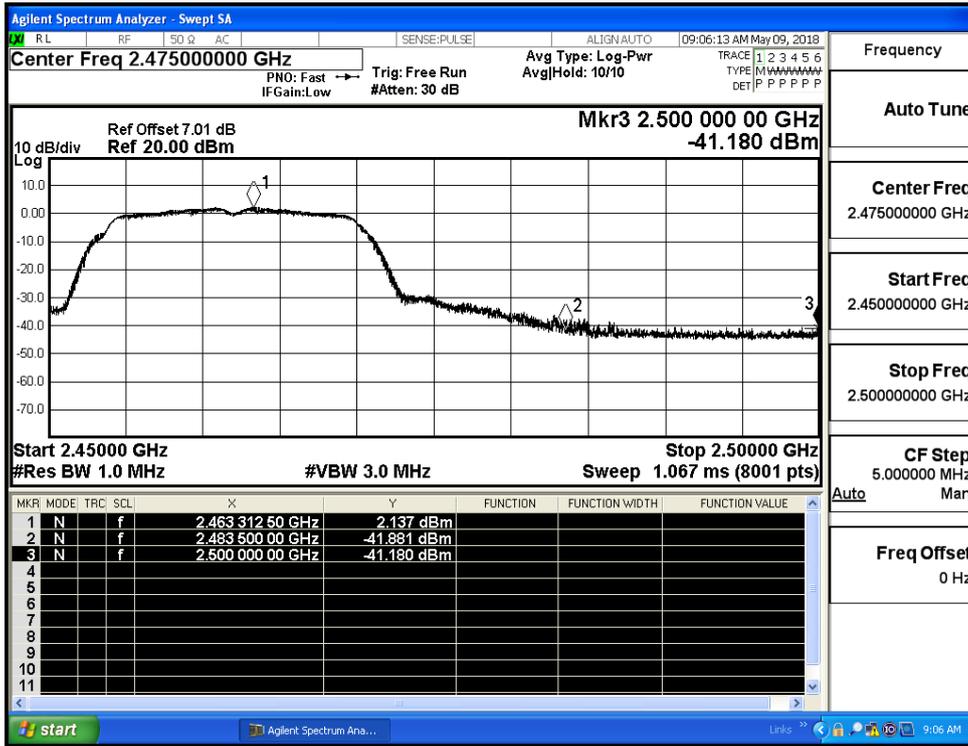
Restrict-band band-edge measurements\_11G\_2412\_Ant1\_PEAK



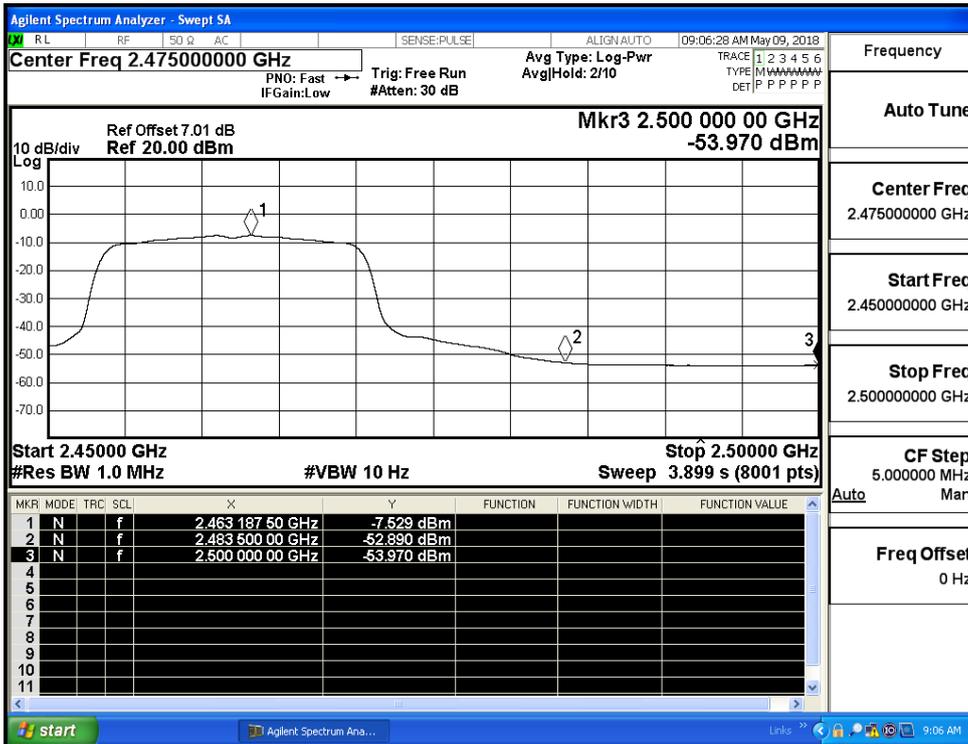
Restrict-band band-edge measurements\_11G\_2412\_Ant1\_AV



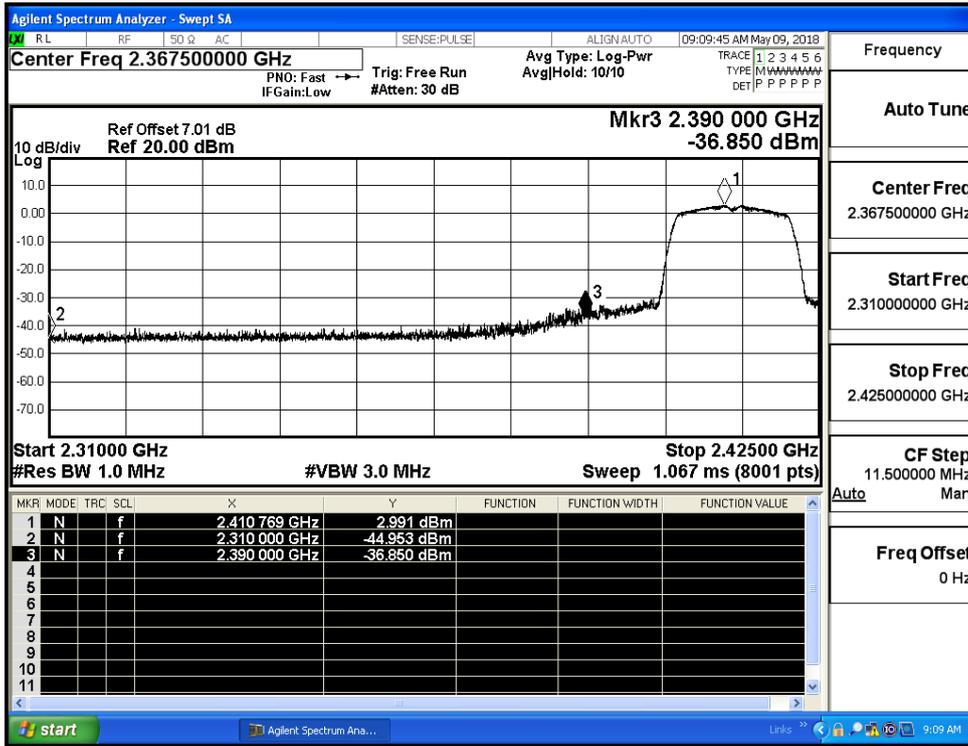
Restrict-band band-edge measurements\_11G\_2462\_Ant1\_PEAK



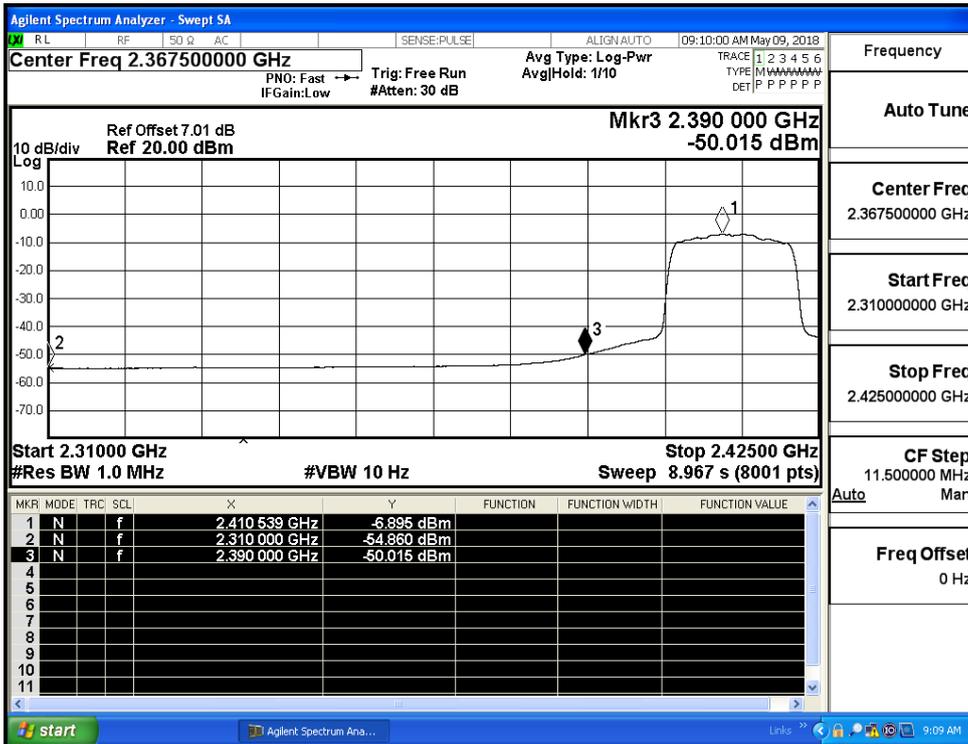
Restrict-band band-edge measurements\_11G\_2462\_Ant1\_AV



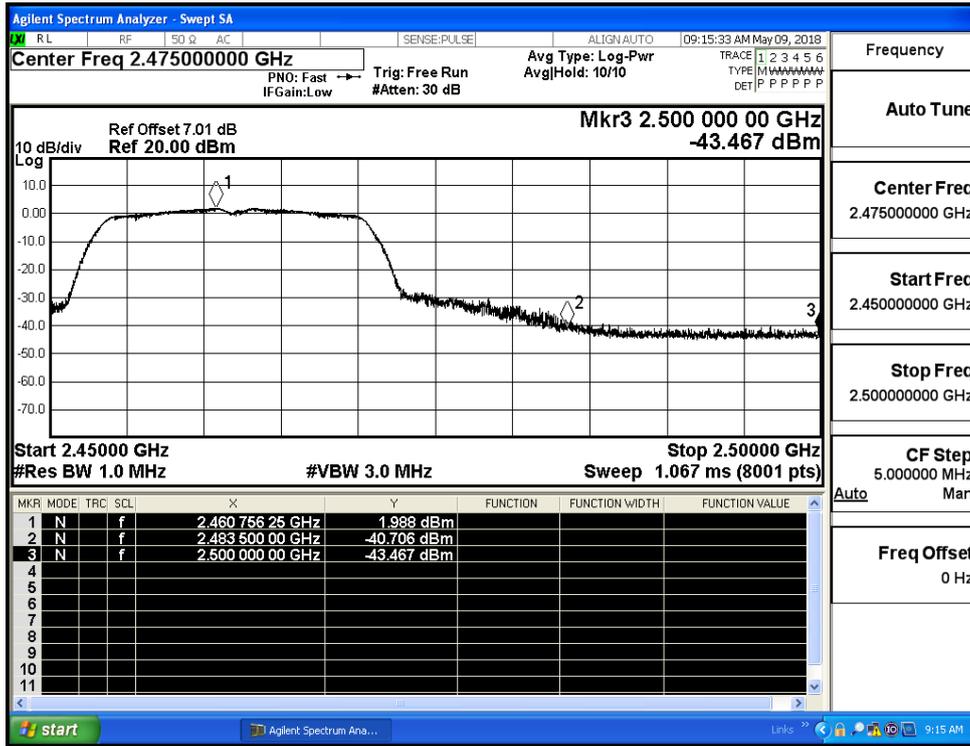
Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_PEAK



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

