

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Camera(NVR&DVR)

Trade Mark: SQ

Test Model: 2CU0630

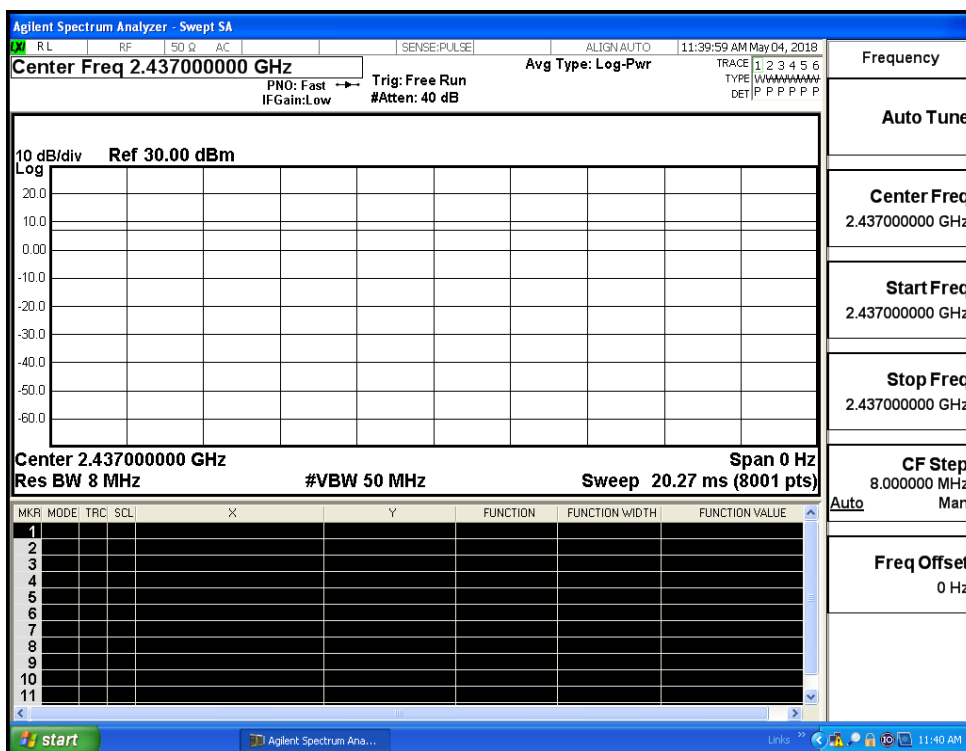
Environmental Conditions

Temperature:	23.6° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jayden.Zhuo
Supervised by:	Dick.Su

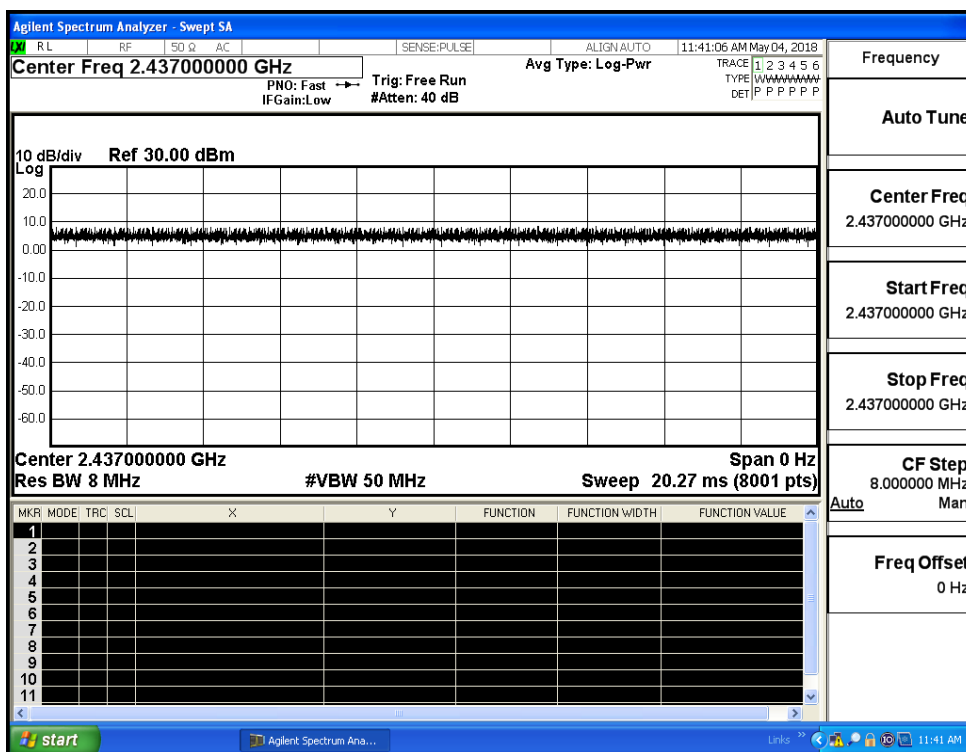
C.1 Duty Cycle

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

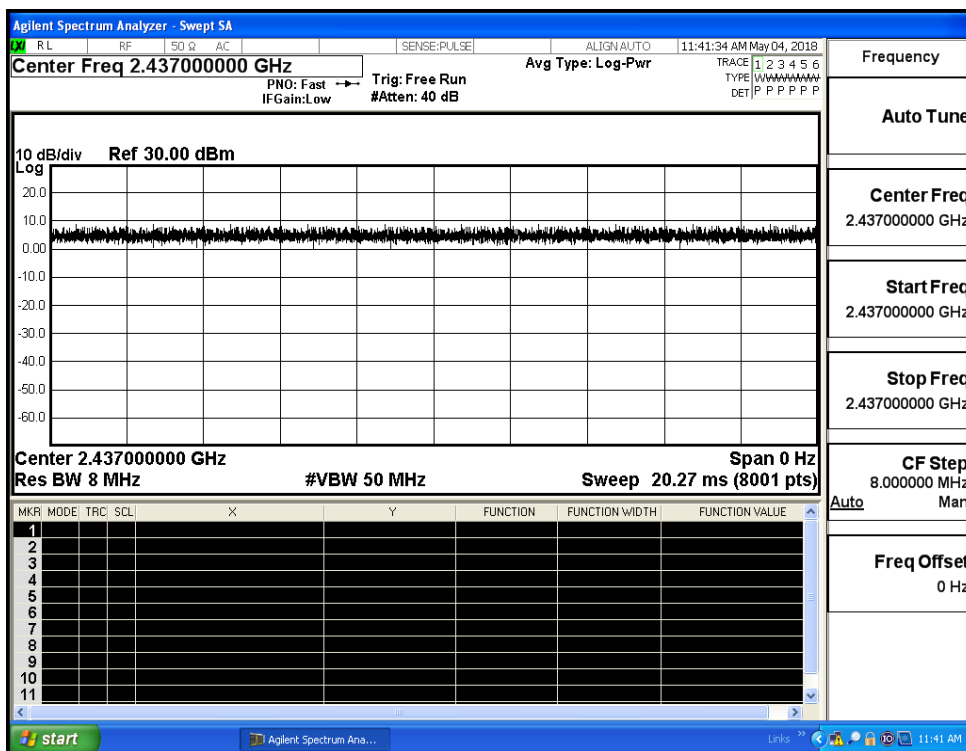
Duty Cycle_11B_2437_Ant1



Duty Cycle_11G_2437_Ant1



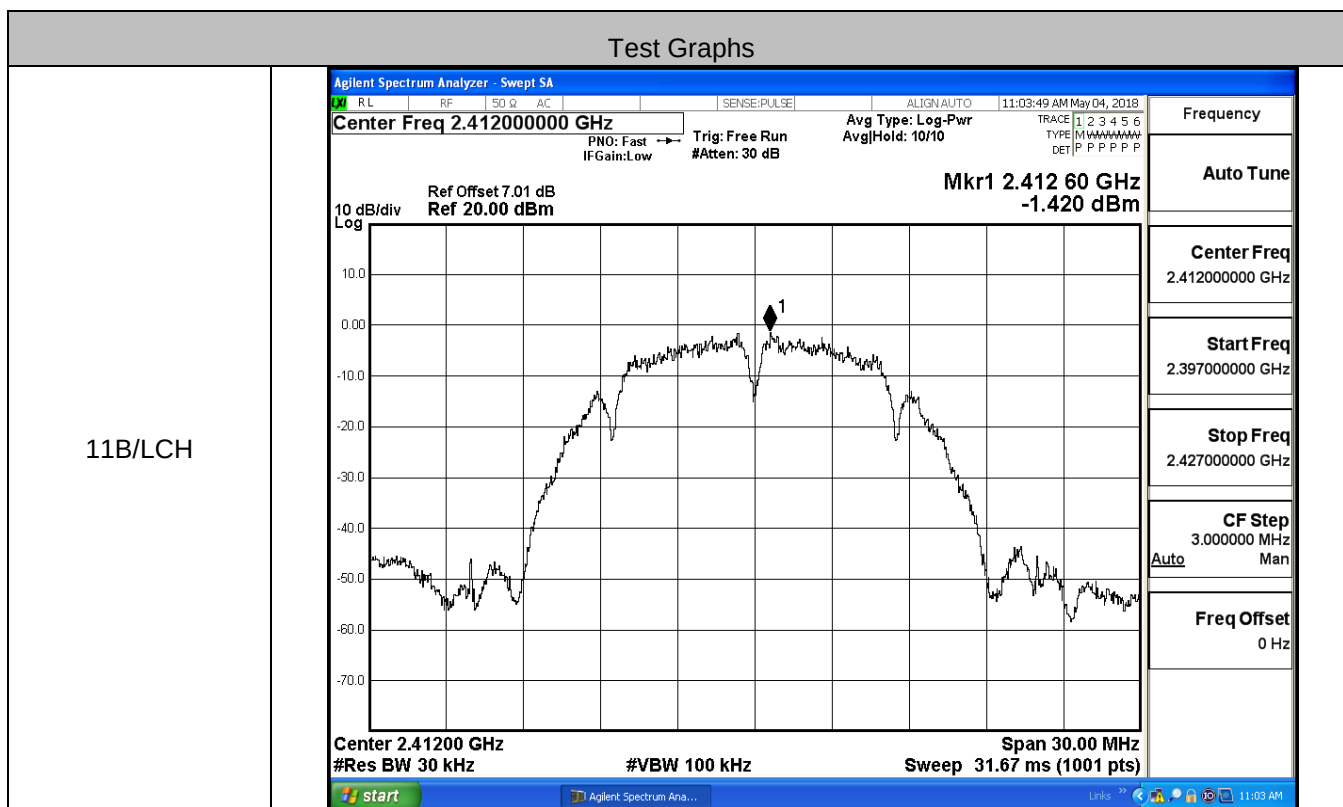
Duty Cycle_11N20SISO_2437_Ant1



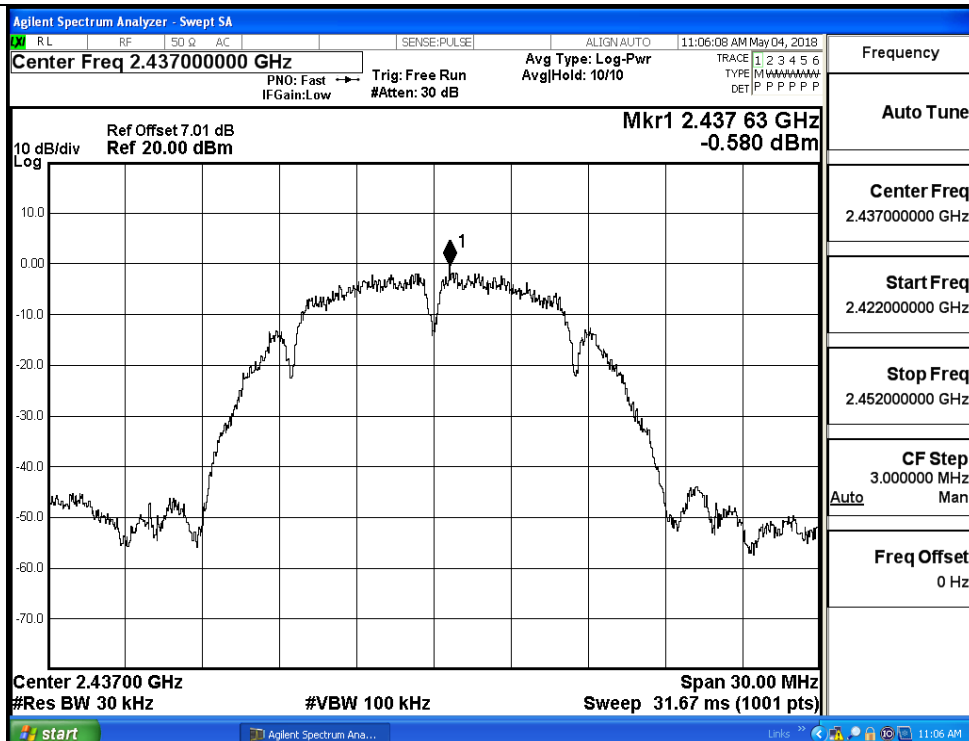
C.2 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-1.420	8	PASS
	MCH	-0.580	8	PASS
	HCH	-0.246	8	PASS
11G	LCH	-7.602	8	PASS
	MCH	-7.013	8	PASS
	HCH	-7.768	8	PASS
11N20SISO	LCH	-7.591	8	PASS
	MCH	-8.577	8	PASS
	HCH	-7.261	8	PASS

Test Graphs



11B/MCH



Frequency

Auto Tune

Center Freq
2.437000000 GHz

Start Freq
2.422000000 GHz

Stop Freq
2.452000000 GHz

CF Step
3.000000 MHz
Auto Man

Freq Offset
0 Hz

11B/HCH



Frequency

Auto Tune

Center Freq
2.462000000 GHz

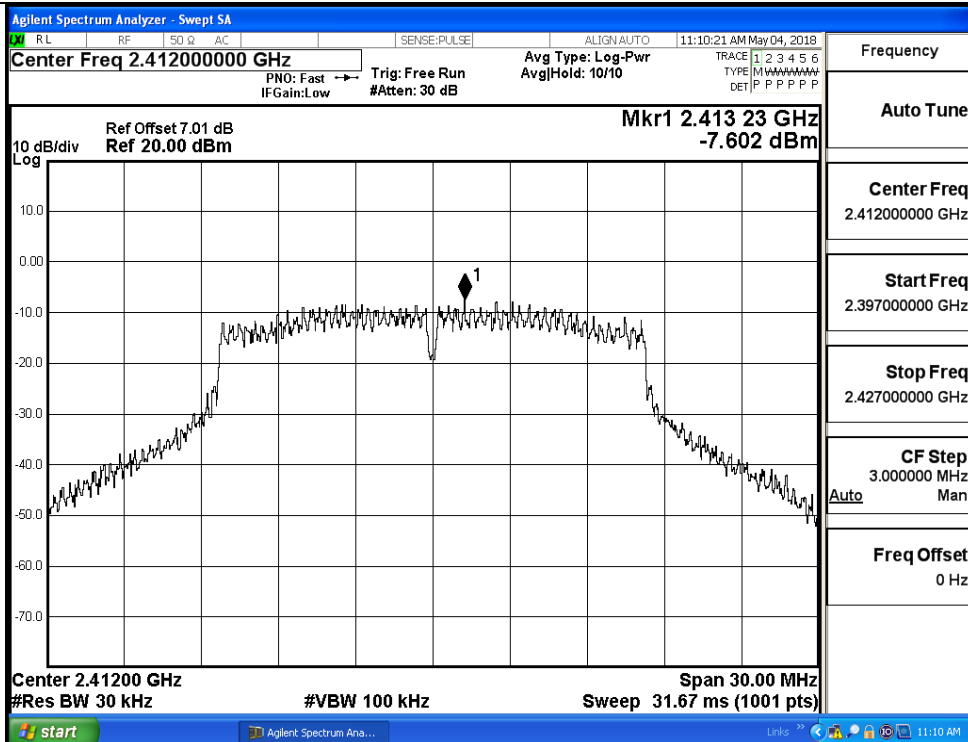
Start Freq
2.447000000 GHz

Stop Freq
2.477000000 GHz

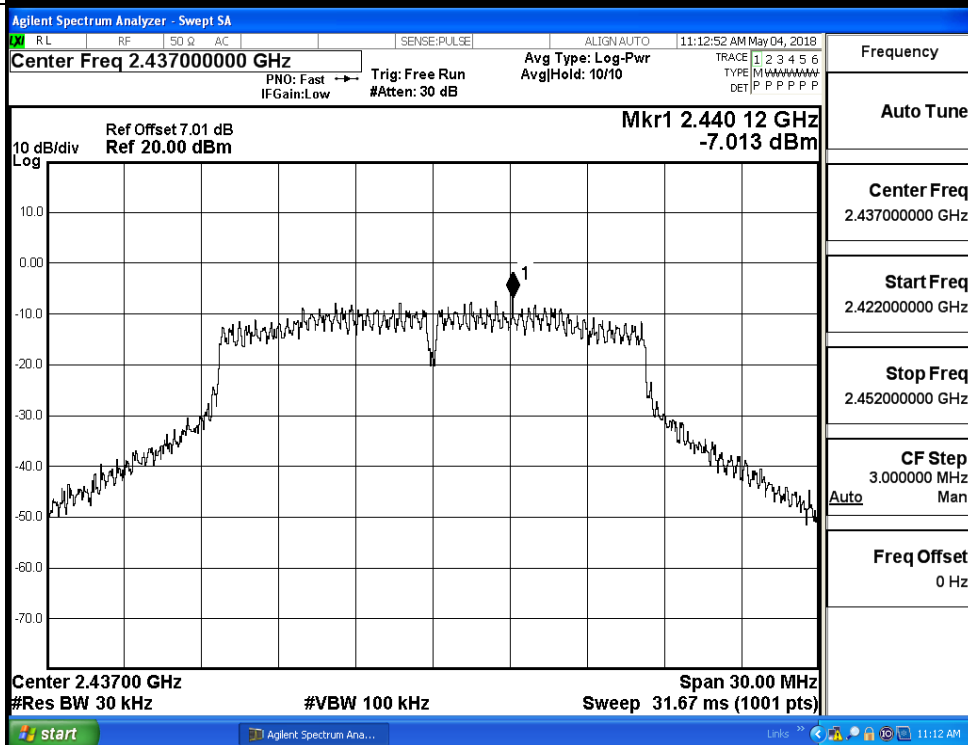
CF Step
3.000000 MHz
Auto Man

Freq Offset
0 Hz

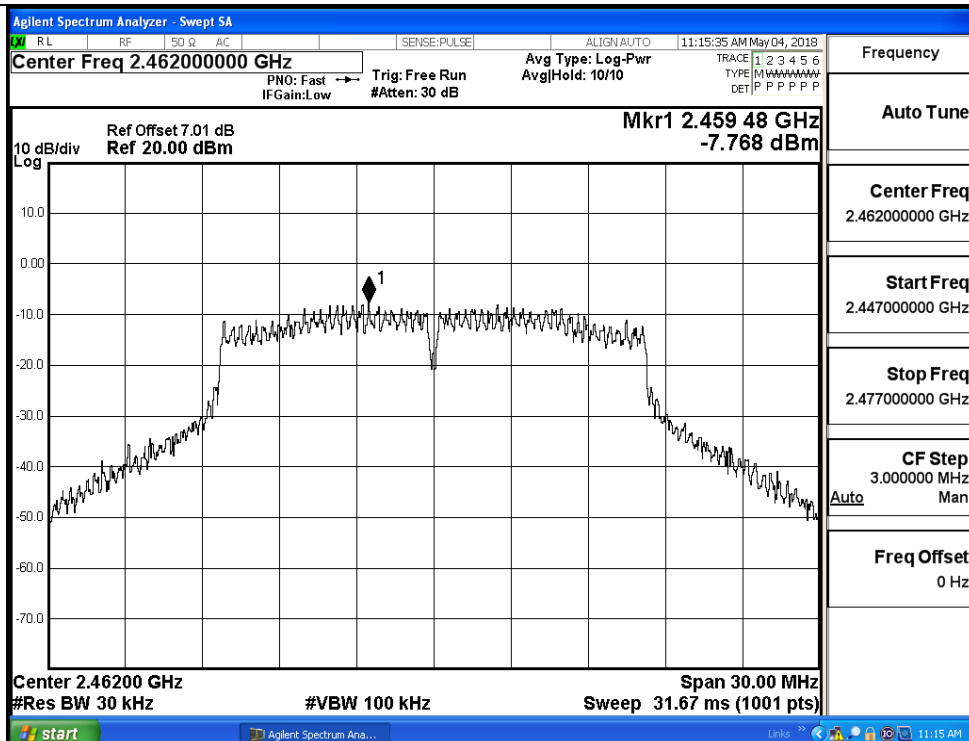
11G/LCH



11G/MCH



11G/HCH



Frequency

Auto Tune

Center Freq
2.46200000 GHz

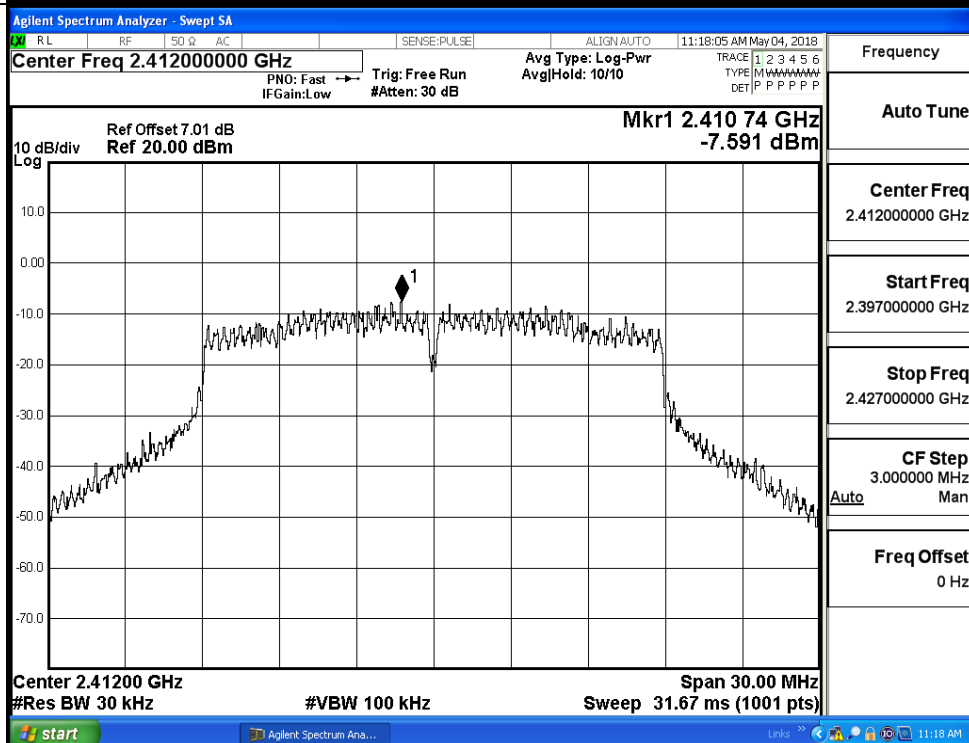
Start Freq
2.447000000 GHz

Stop Freq
2.477000000 GHz

CF Step
3.000000 MHz
Auto Man

Freq Offset
0 Hz

11N20SISO/LCH



Frequency

Auto Tune

Center Freq
2.41200000 GHz

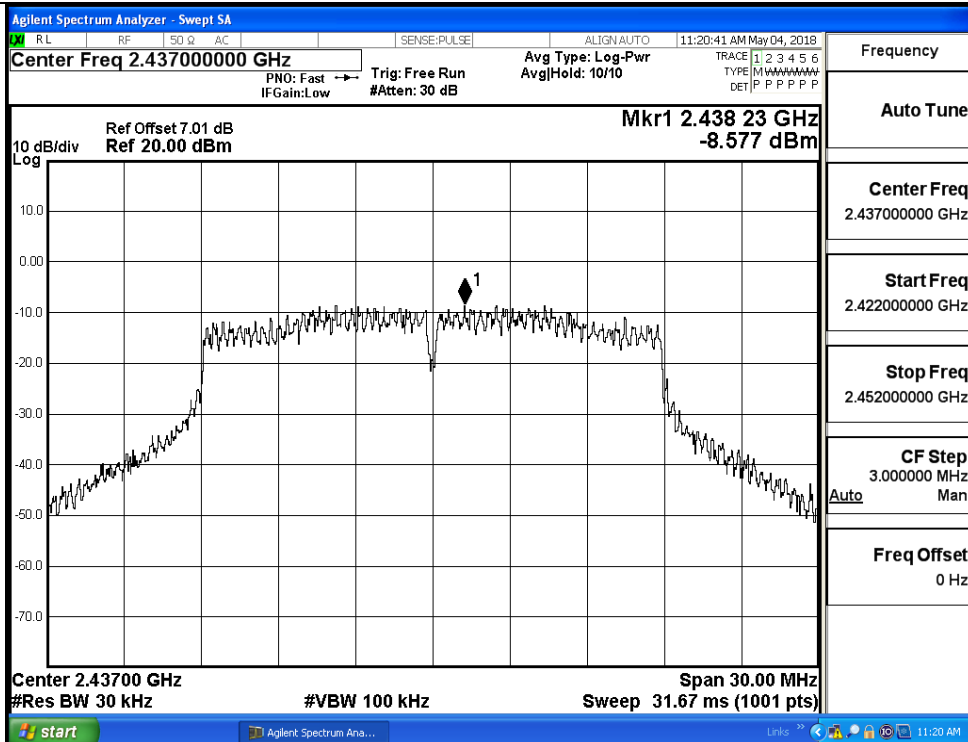
Start Freq
2.397000000 GHz

Stop Freq
2.427000000 GHz

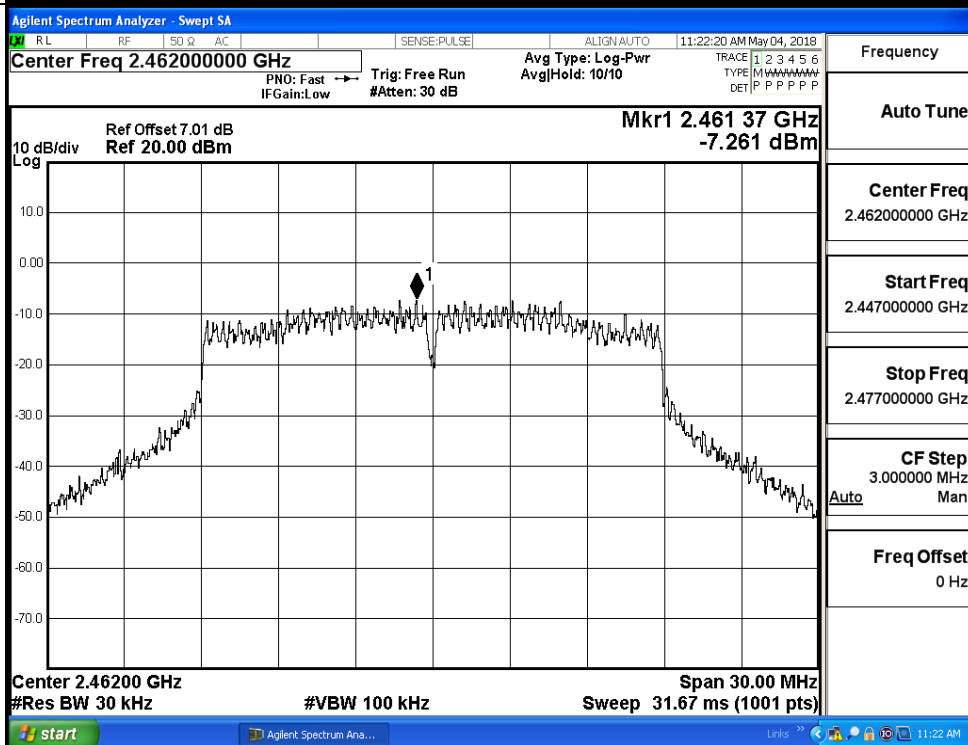
CF Step
3.000000 MHz
Auto Man

Freq Offset
0 Hz

11N20SISO/MCH



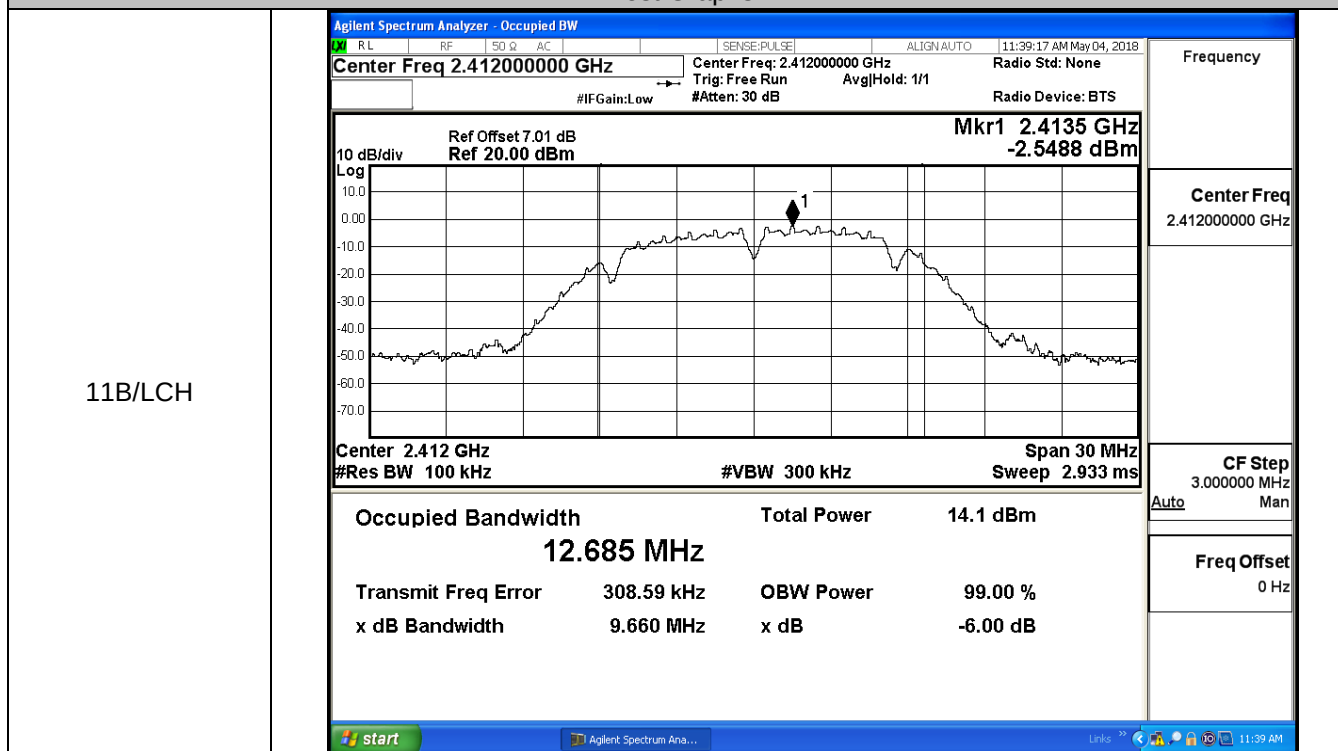
11N20SISO/HCH



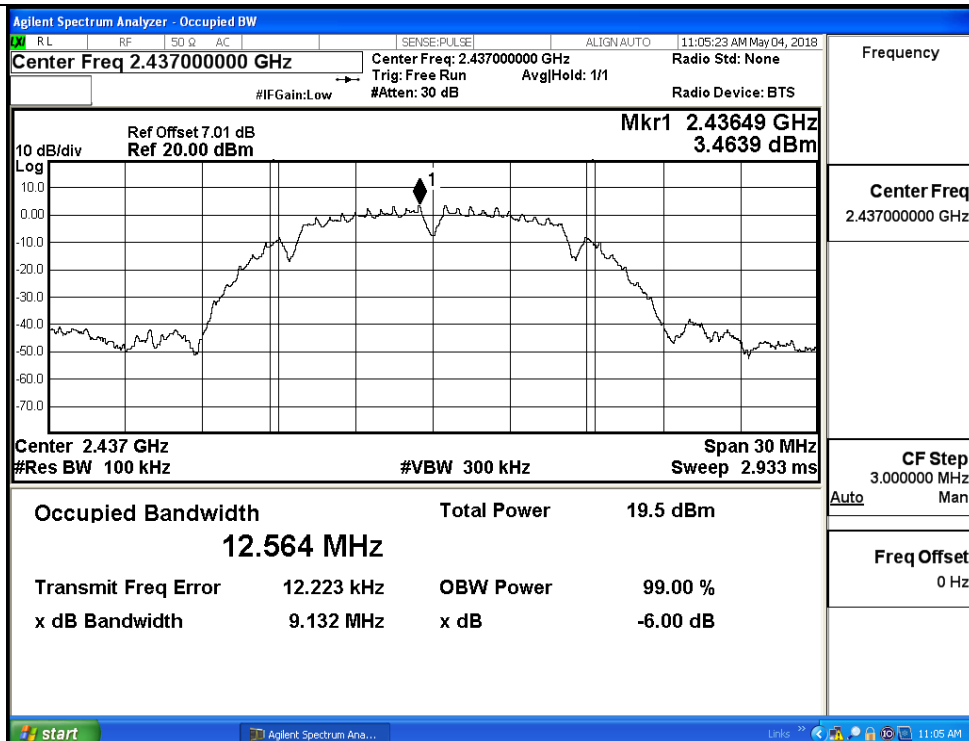
C.3 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.660	≥ 0.5	PASS
	MCH	9.132	≥ 0.5	PASS
	HCH	9.160	≥ 0.5	PASS
11G	LCH	15.16	≥ 0.5	PASS
	MCH	15.11	≥ 0.5	PASS
	HCH	15.14	≥ 0.5	PASS
11N20SISO	LCH	15.15	≥ 0.5	PASS
	MCH	15.14	≥ 0.5	PASS
	HCH	15.11	≥ 0.5	PASS

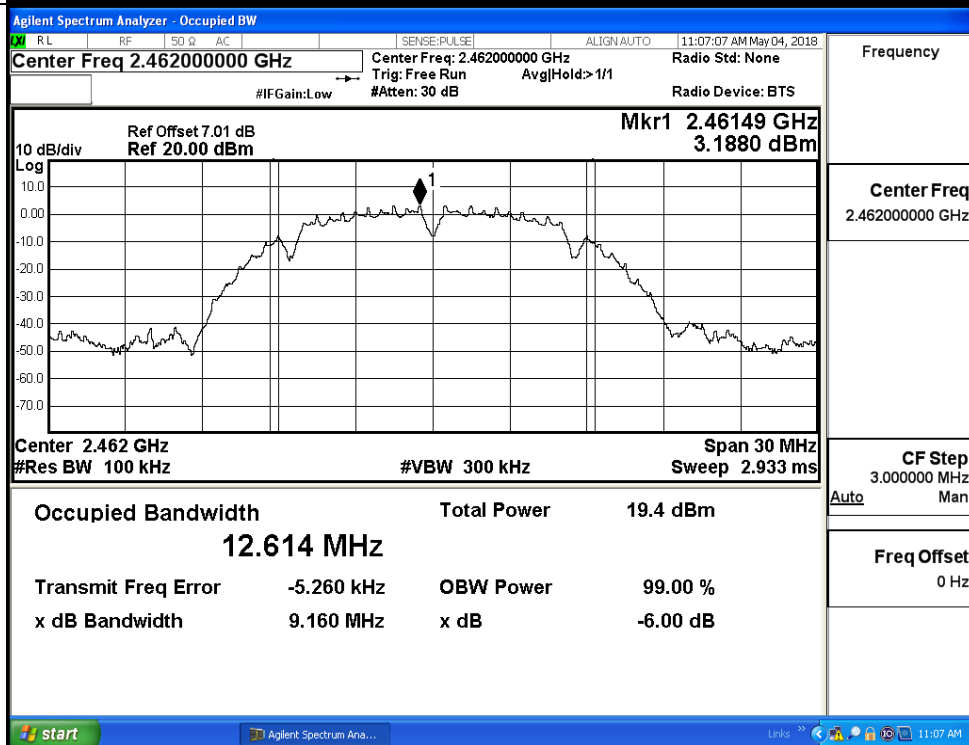
Test Graphs



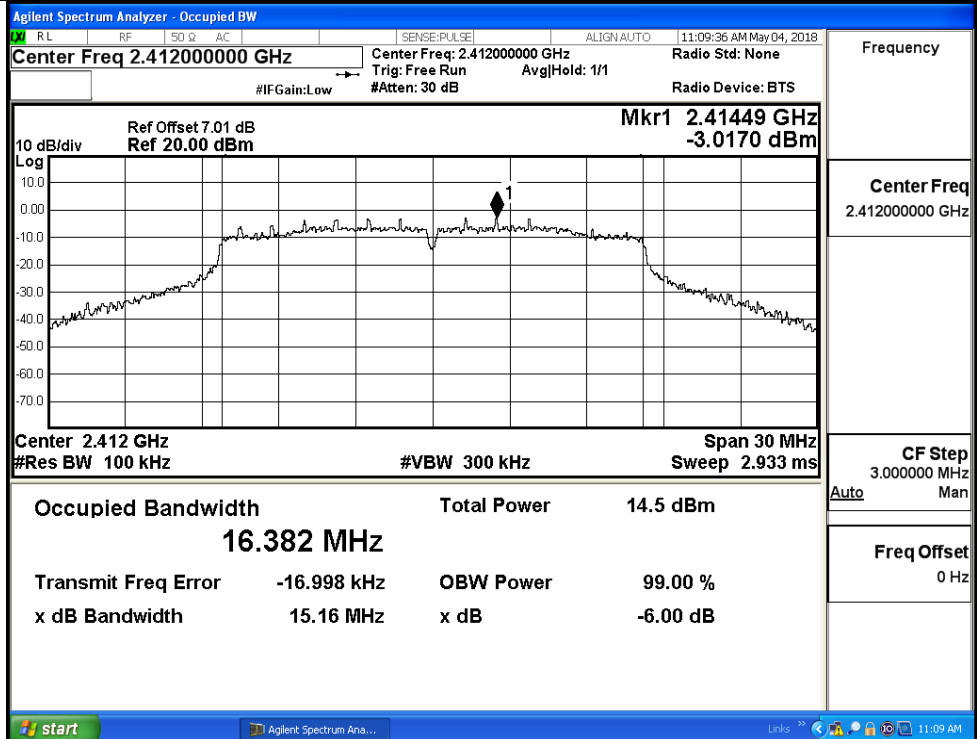
11B/MCH



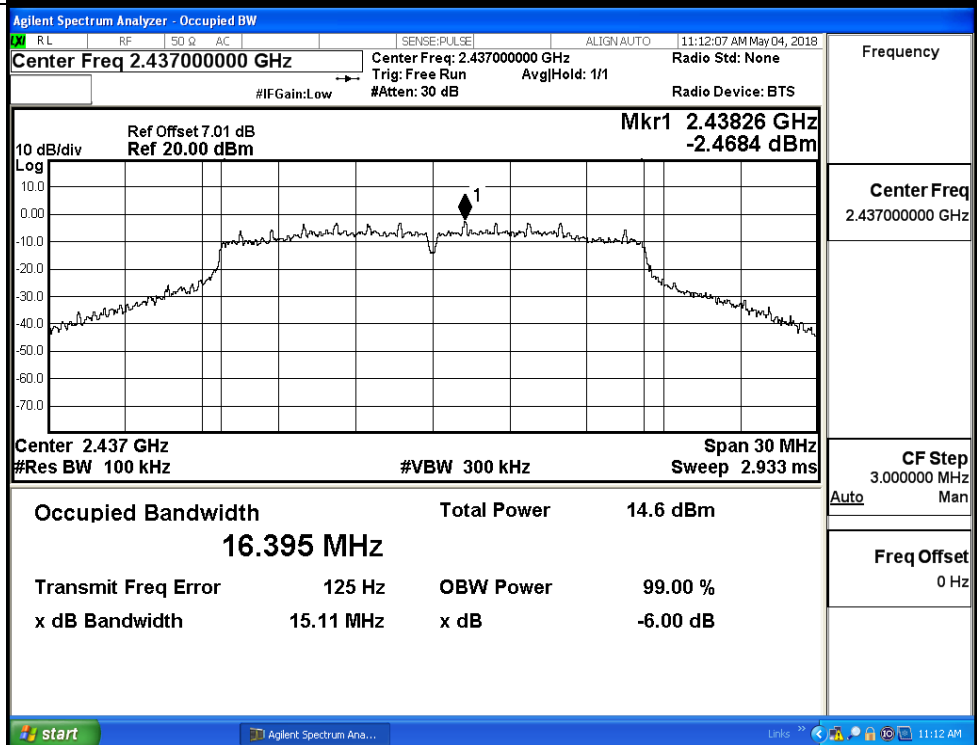
11B/HCH



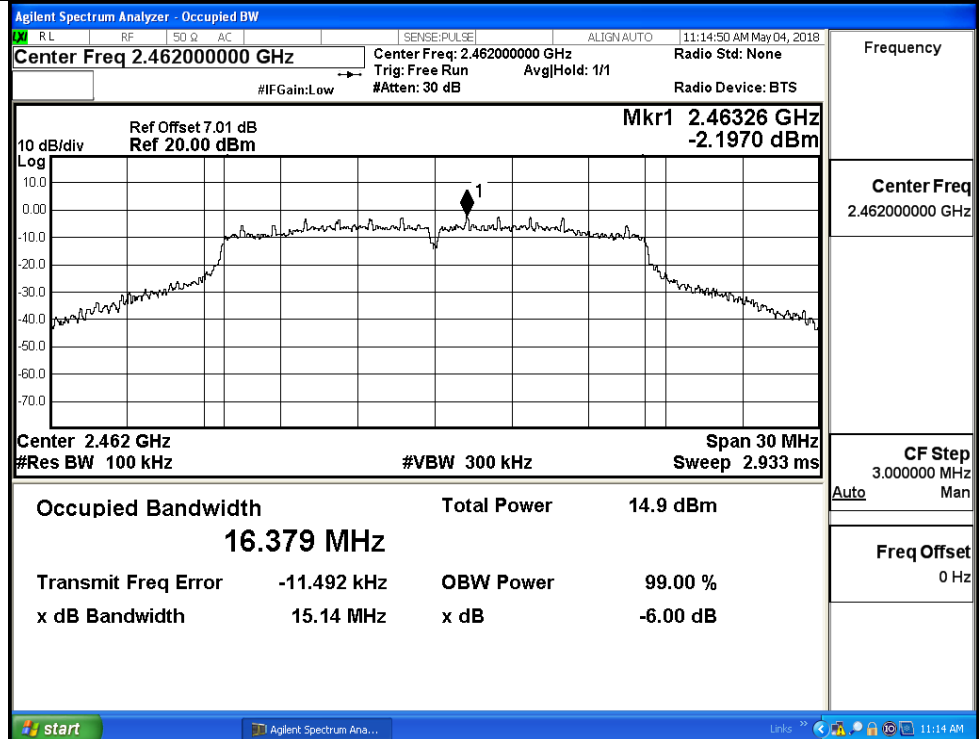
11G/LCH



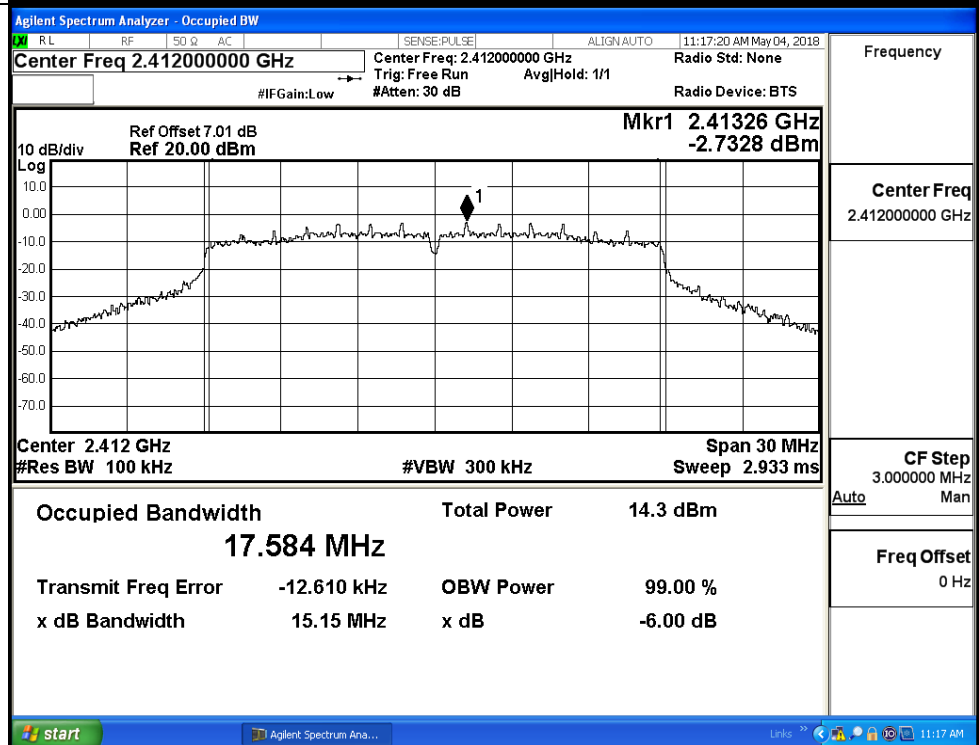
11G/MCH



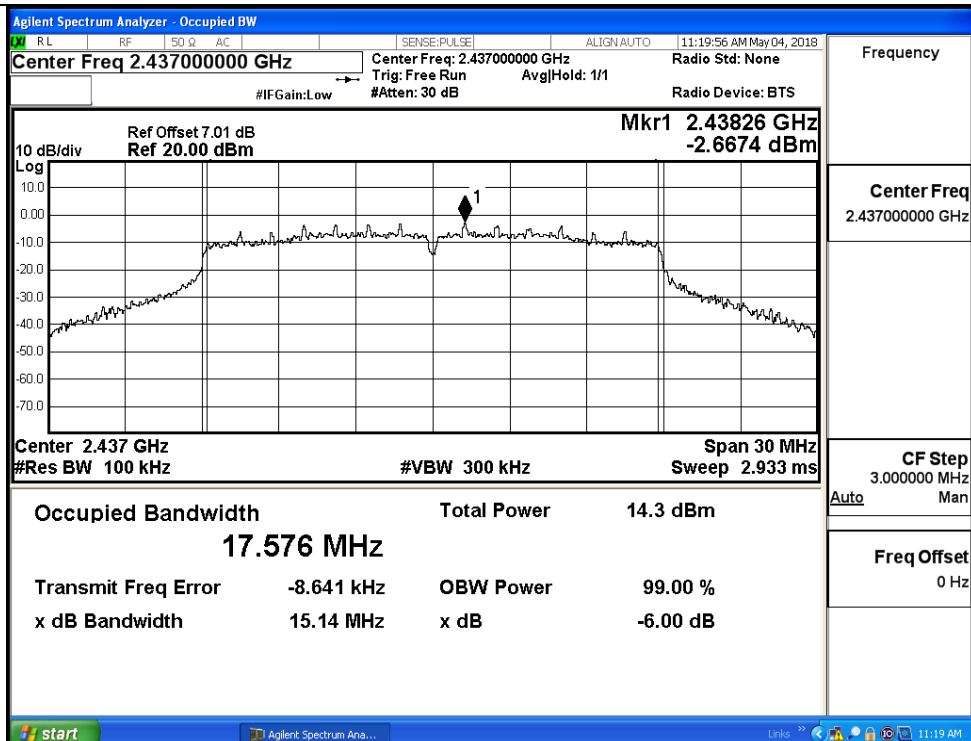
11G/HCH



11N20SISO/LCH



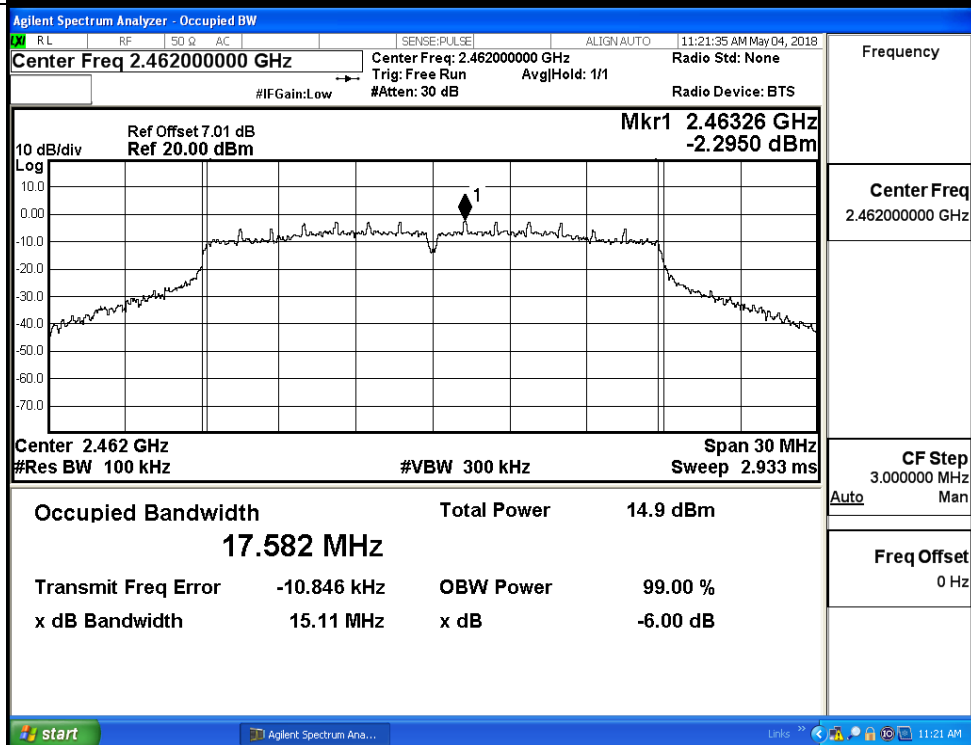
11N20SISO/MCH



Frequency

Center Freq
2.437000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

11N20SISO/HCH



Frequency

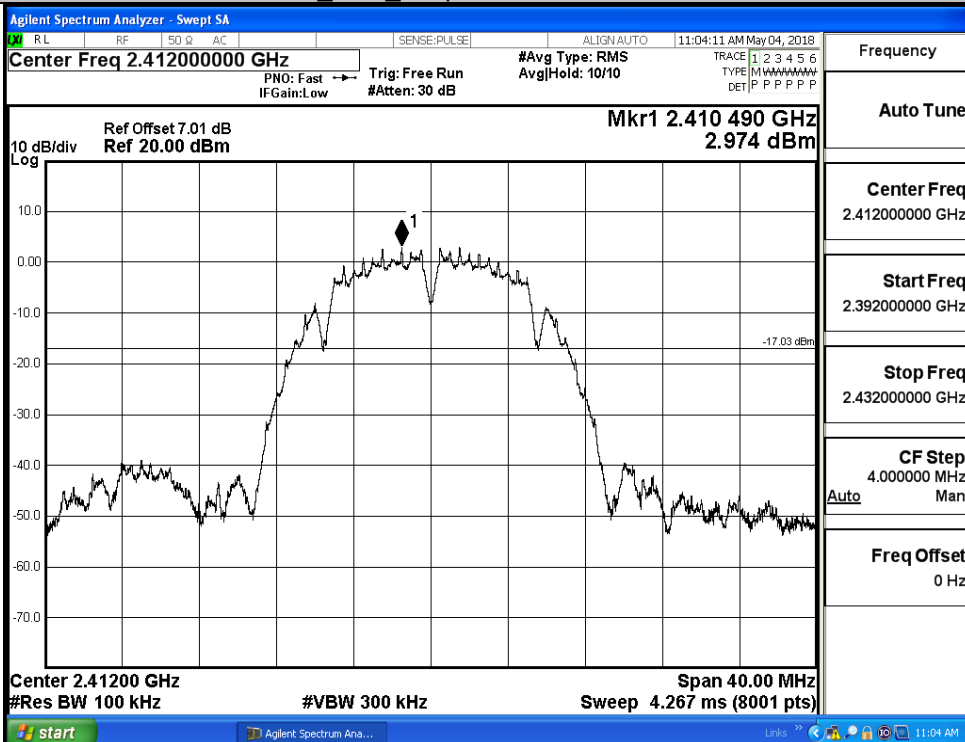
Center Freq
2.462000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

C.4 RF Conducted Spurious Emissions

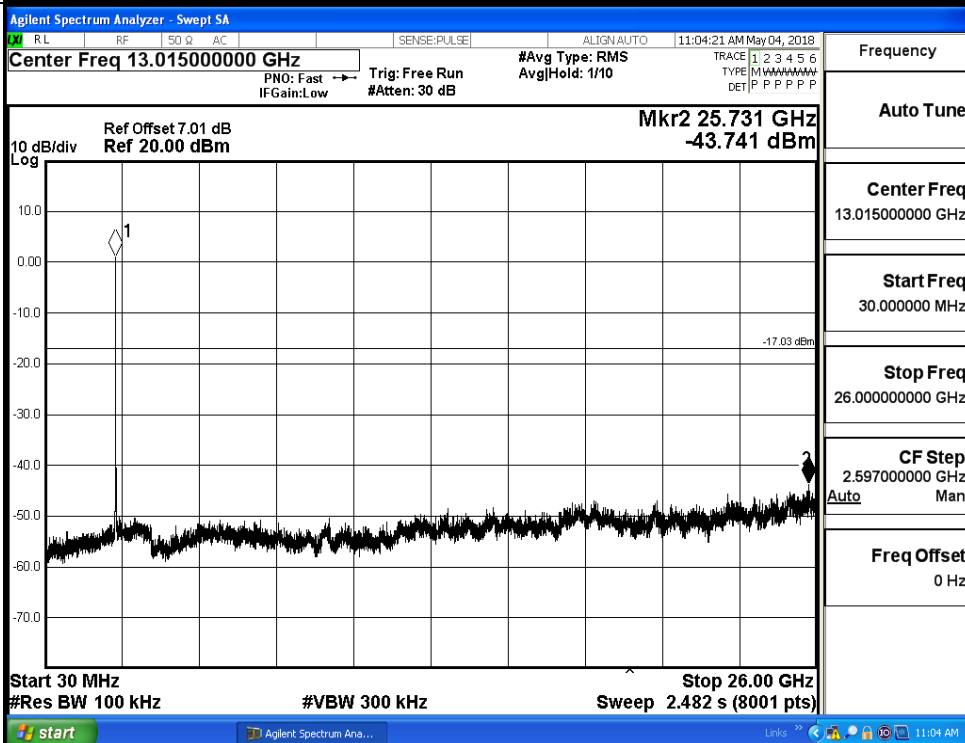
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	2.974	-43.741	-17.026	PASS
	MCH	3.587	-44.359	-16.413	PASS
	HCH	3.765	-43.961	-16.235	PASS
11G	LCH	-2.331	-45.280	-22.331	PASS
	MCH	-2.505	-43.865	-22.505	PASS
	HCH	-2.748	-43.946	-22.748	PASS
11N20 SISO	LCH	-3.121	-44.550	-23.121	PASS
	MCH	-2.372	-45.153	-22.372	PASS
	HCH	-2.295	-43.290	-22.295	PASS

11B LCH Graphs

Pref/11B/LCH

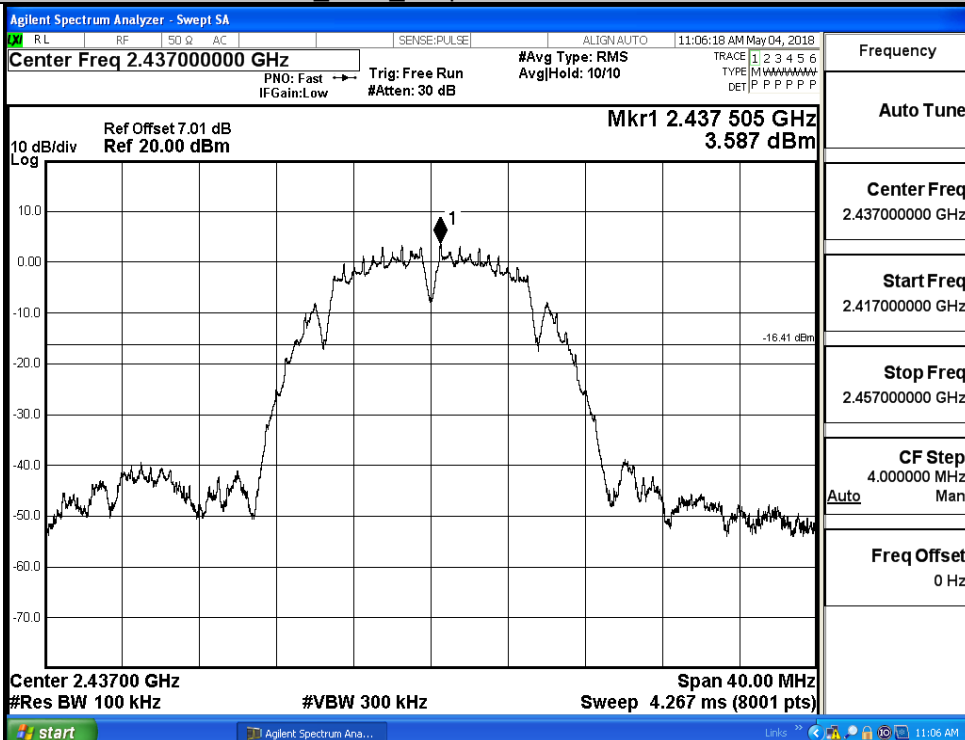


Puw/11B/LCH

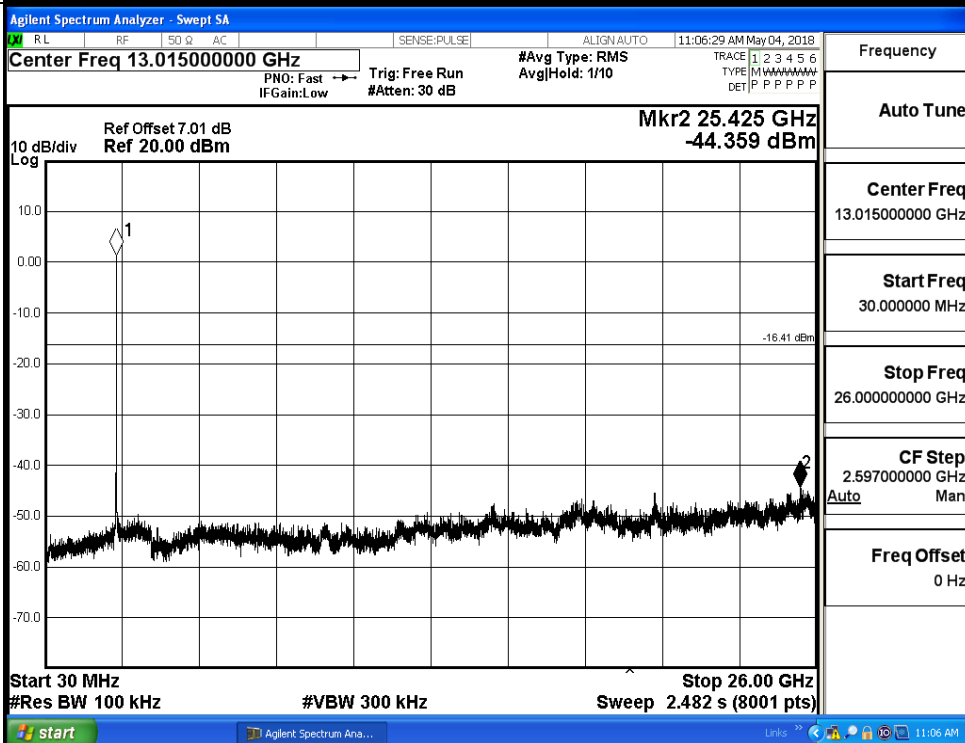


11B MCH Graphs

Pref/11B/MCH

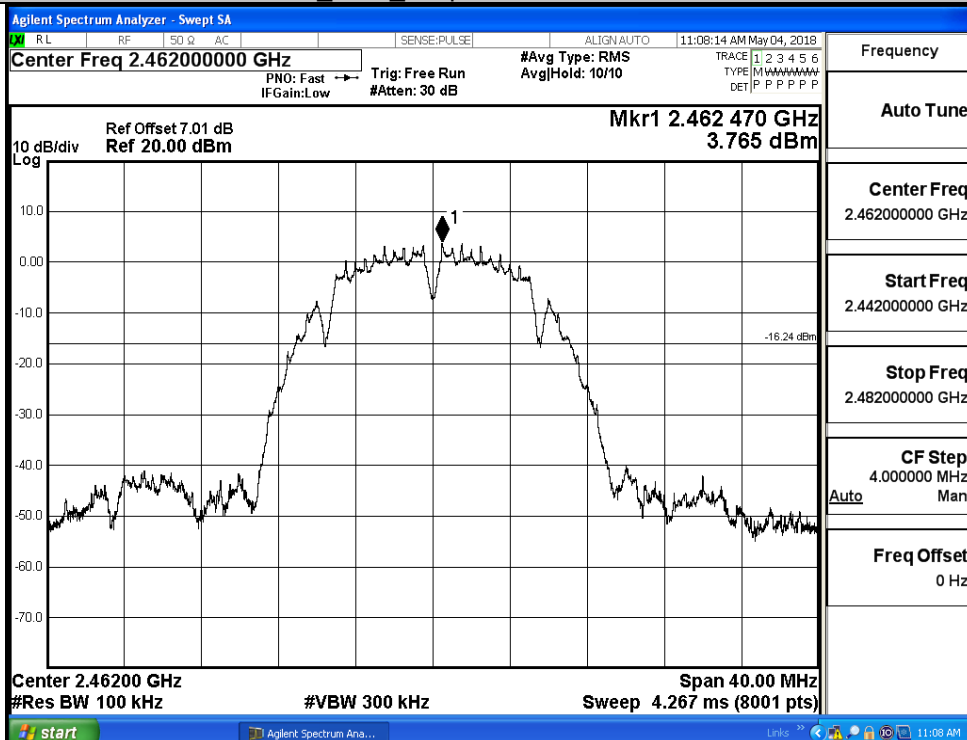


Puw/11B/MCH

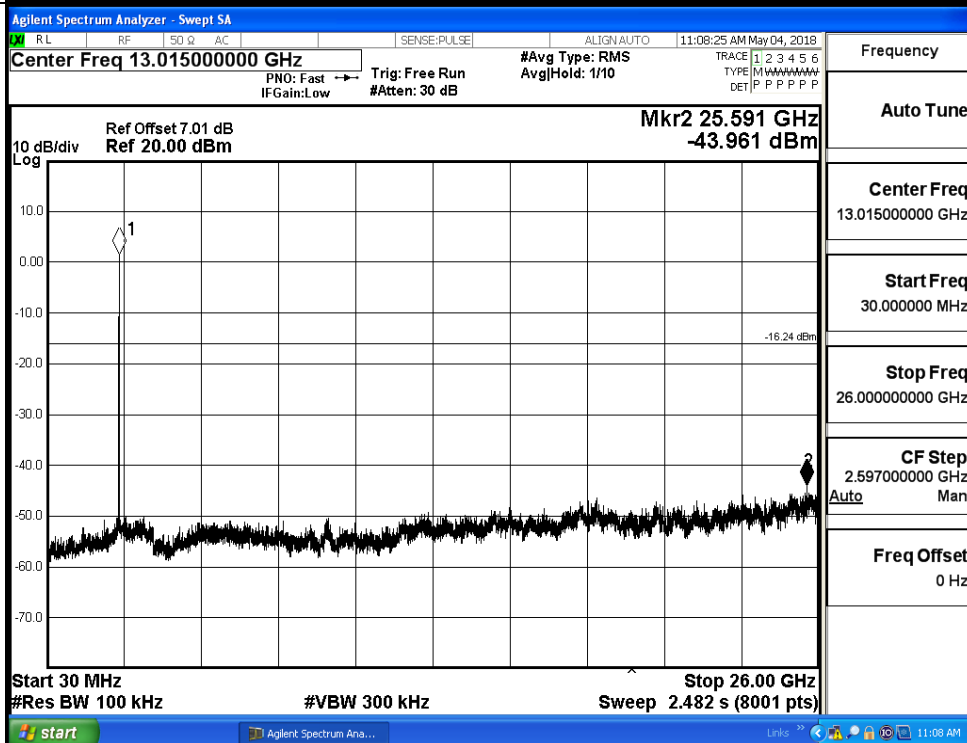


11B HCH Graphs

Pref/11B/HCH

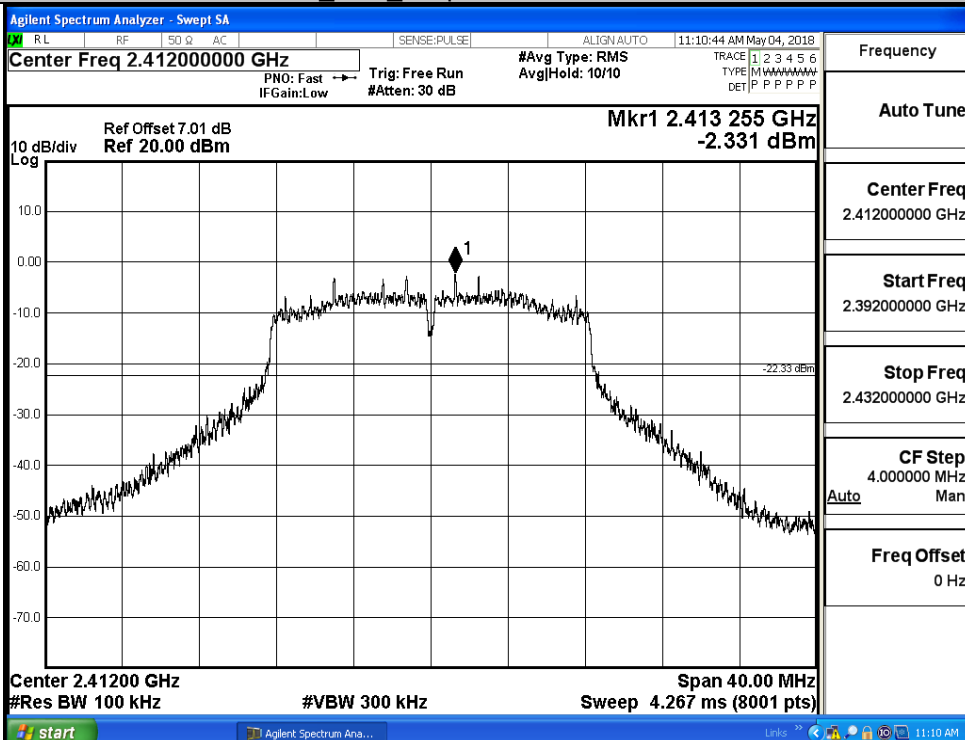


Puw/11B/HCH

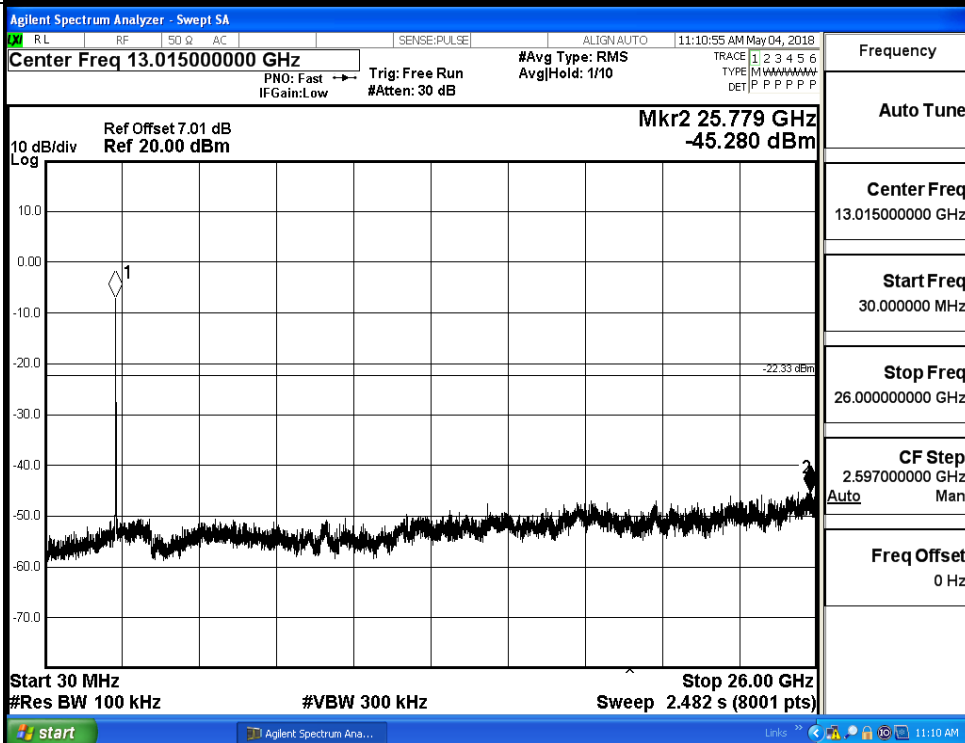


11G LCH Graphs

Pref/11G/LCH

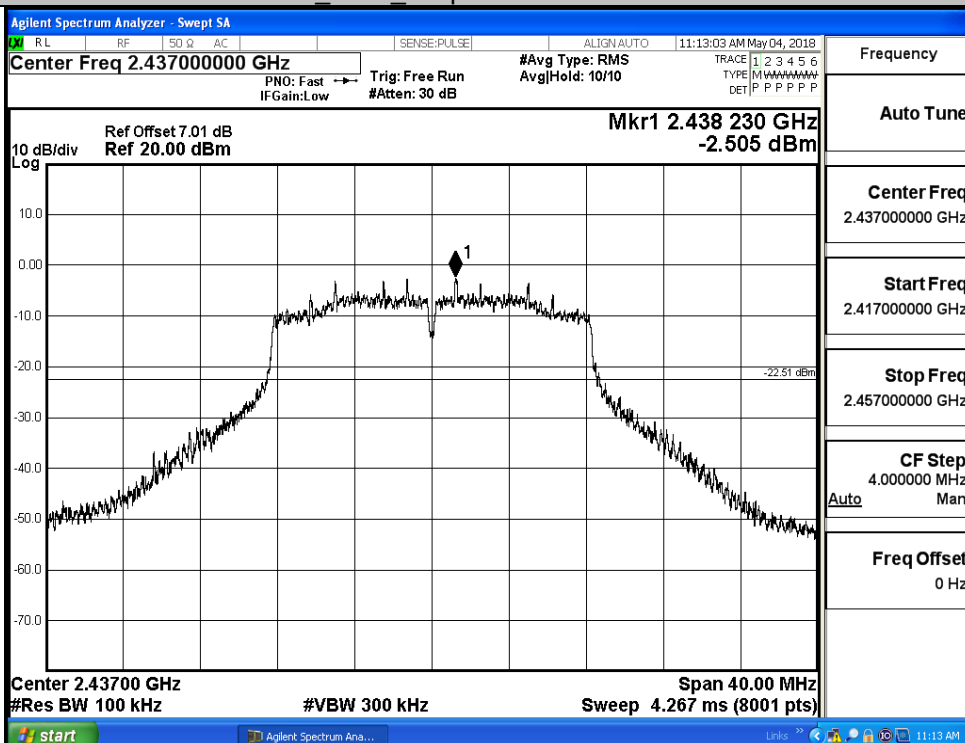


Puw/11G/LCH

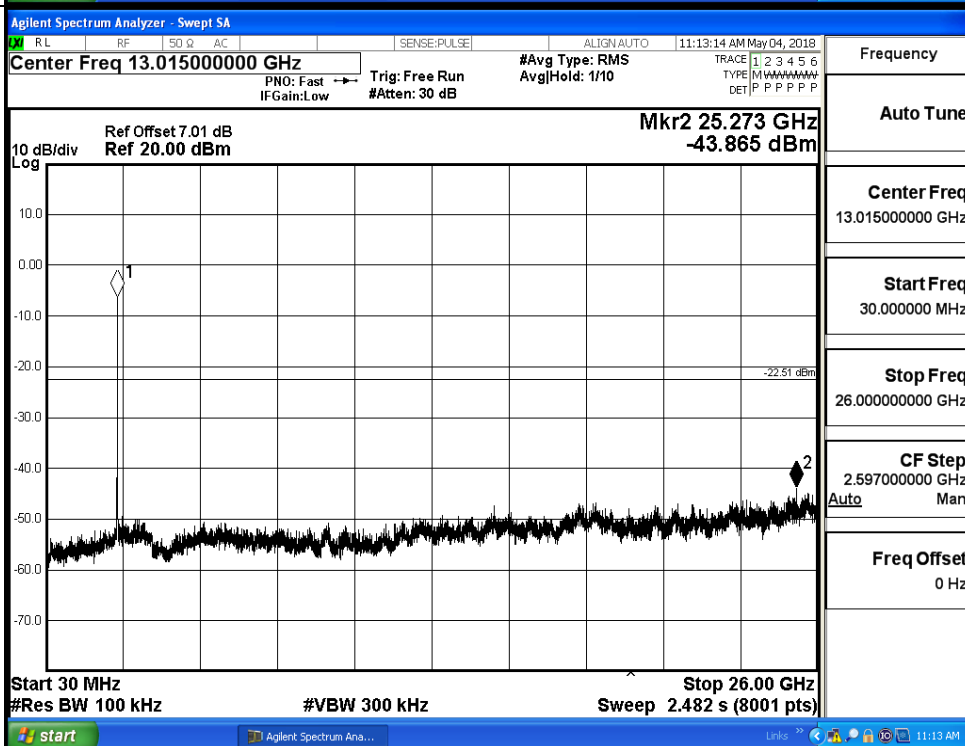


11G MCH Graphs

Pref/11G/MCH

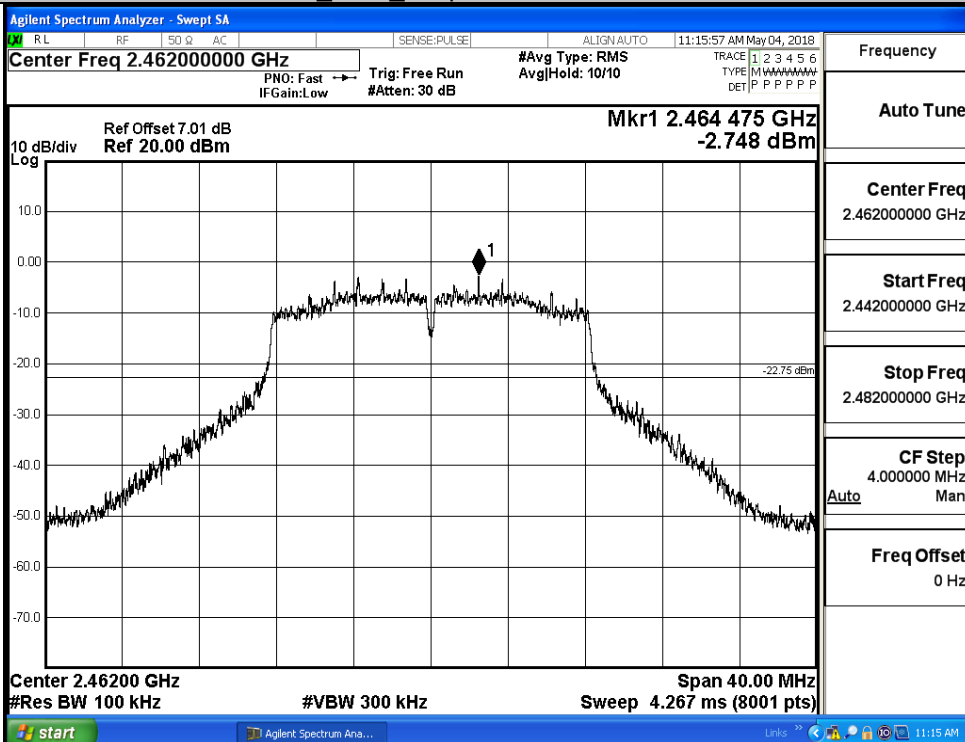


Puw/11G/MCH

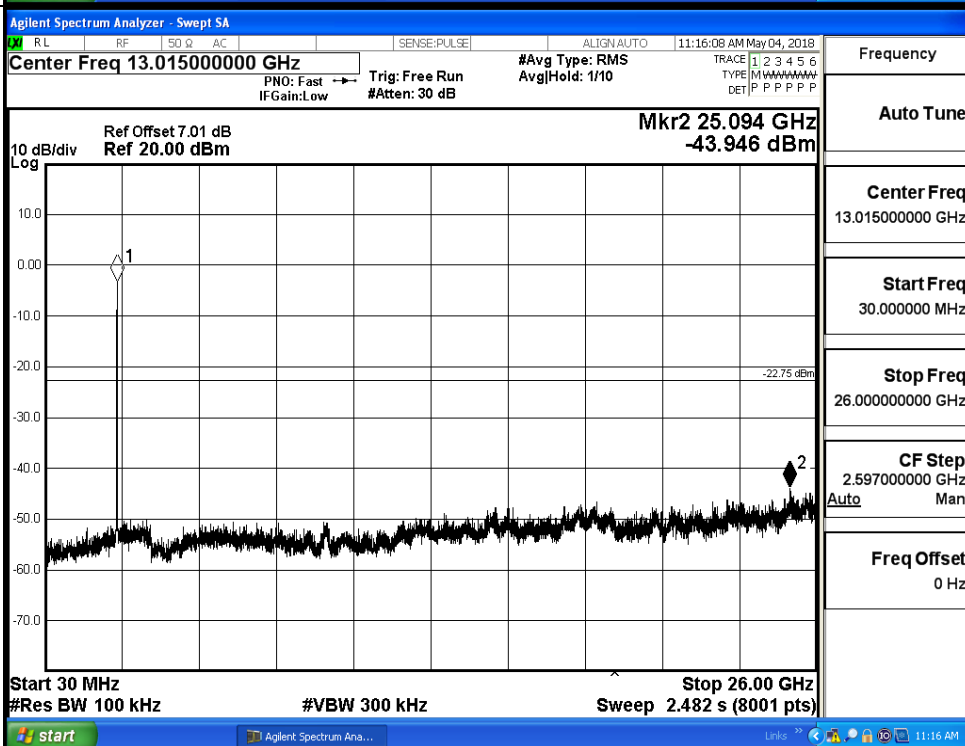


11G HCH Graphs

Pref/11G/HCH

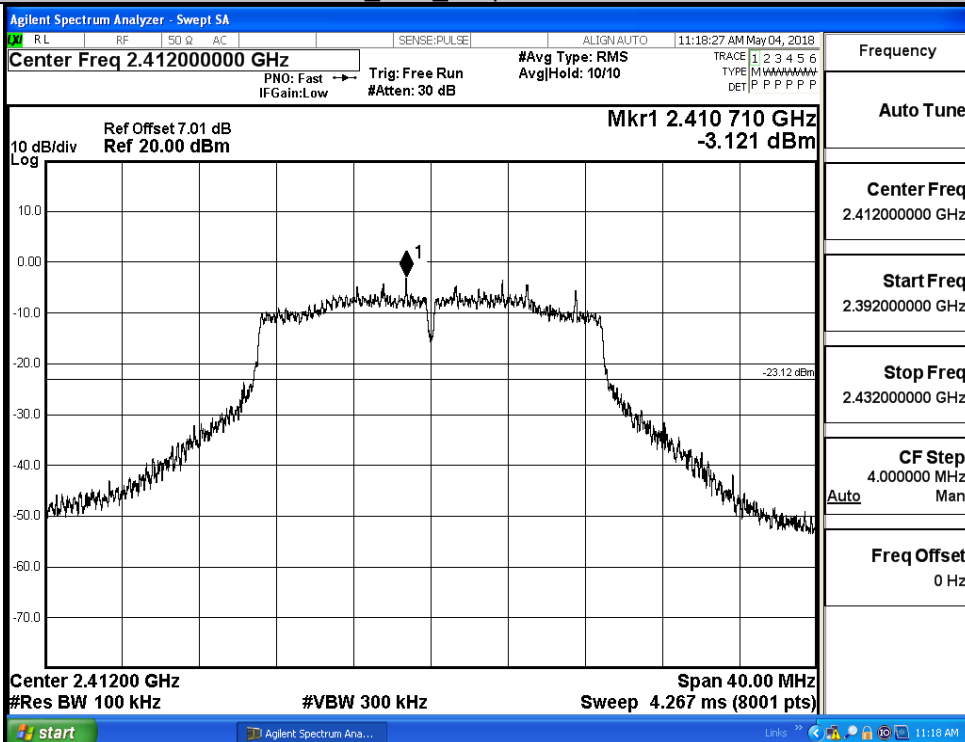


Puw/11G/HCH

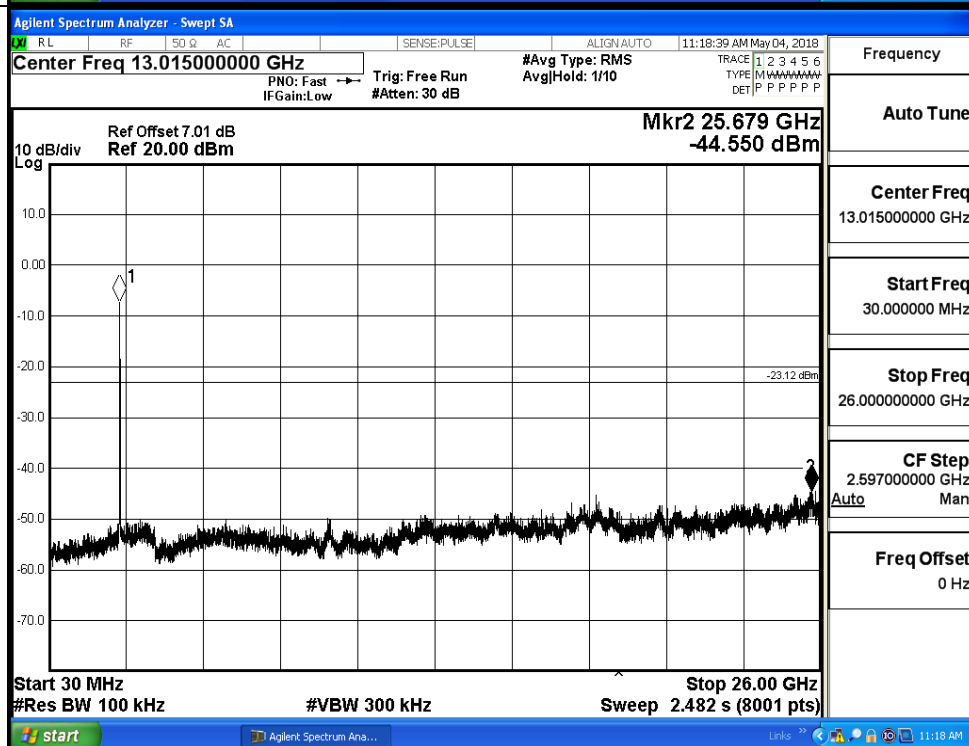


11N20SISO LCH Graphs

Pref/11N20SIS
O/LCH

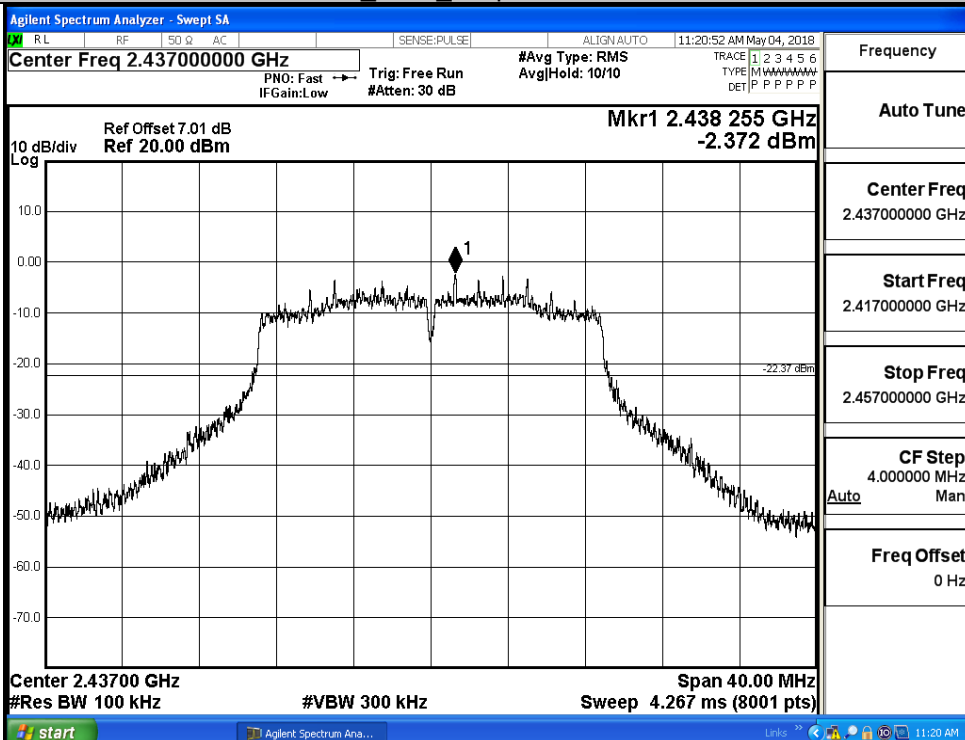


Puw/11N20
SISO/LCH

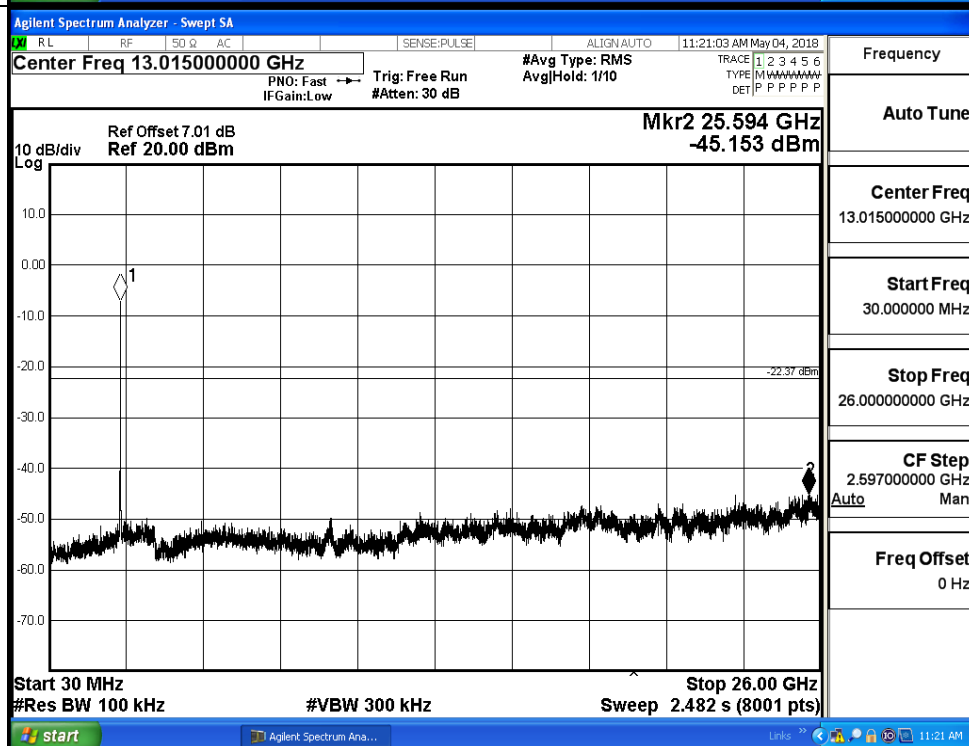


11N20SISO_MCH_Graphs

Pref/11N20
SISO/MCH

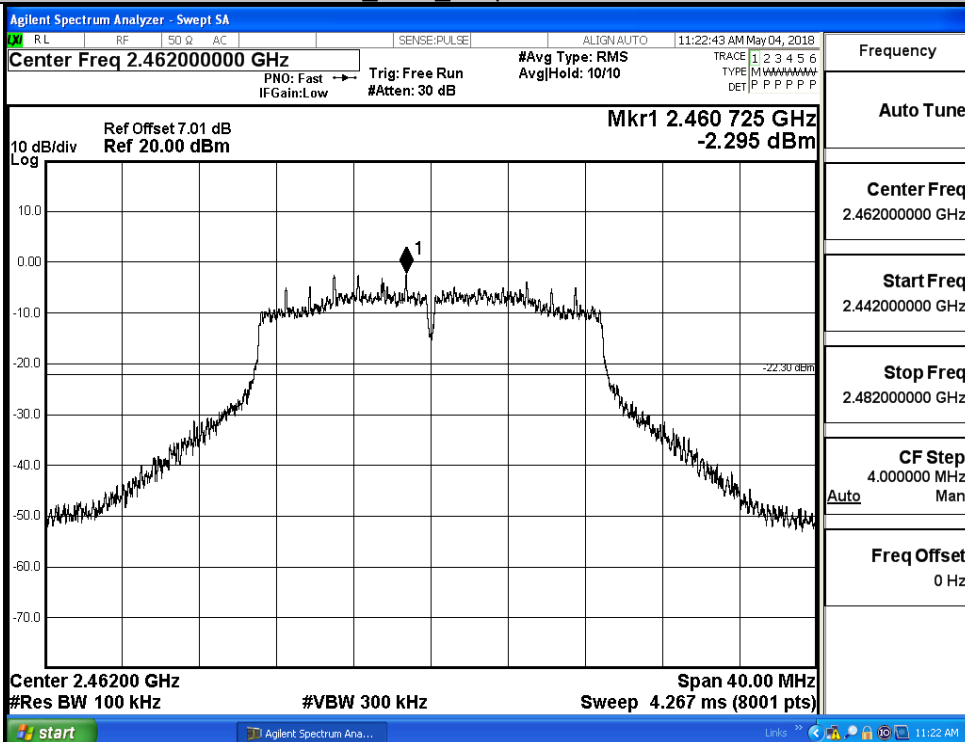


Puw/11N20
SISO/MCH

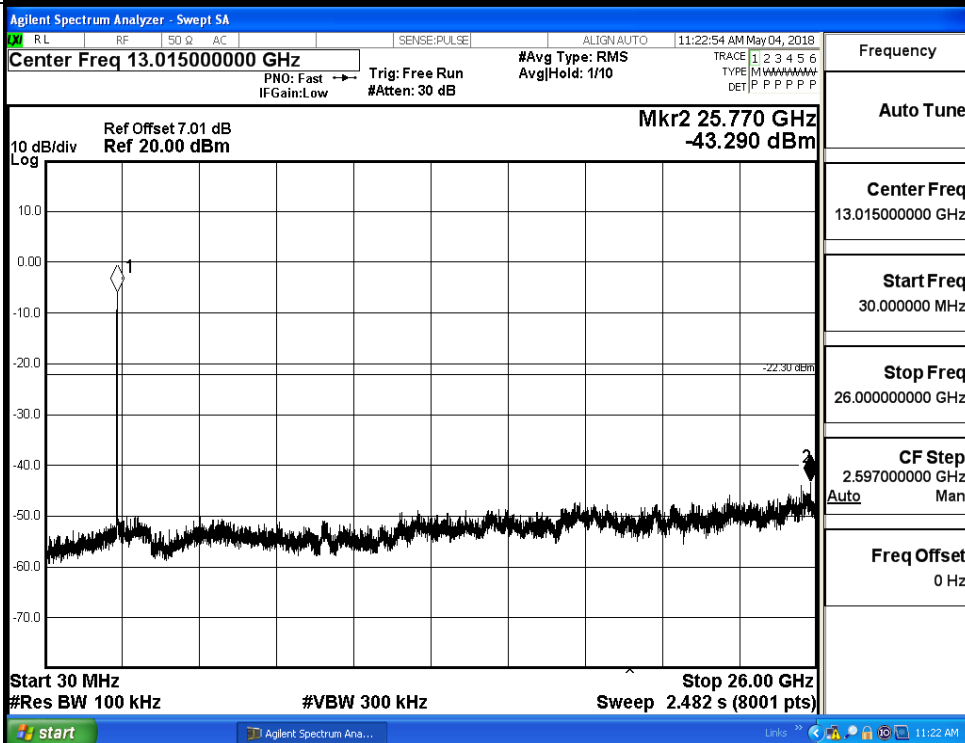


11N20SISO HCH Graphs

Pref/11N20
SISO/HCH

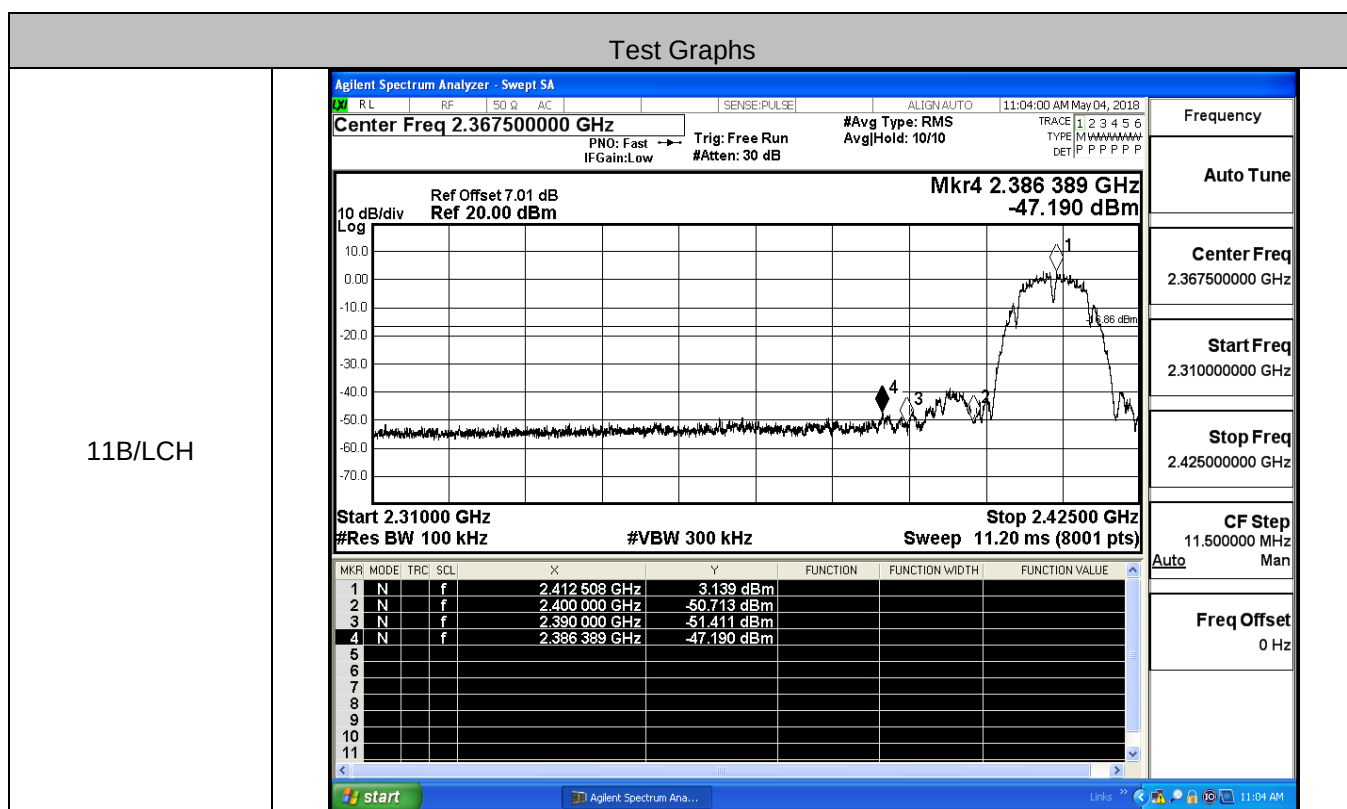


Puw/11N20
SISO/HCH

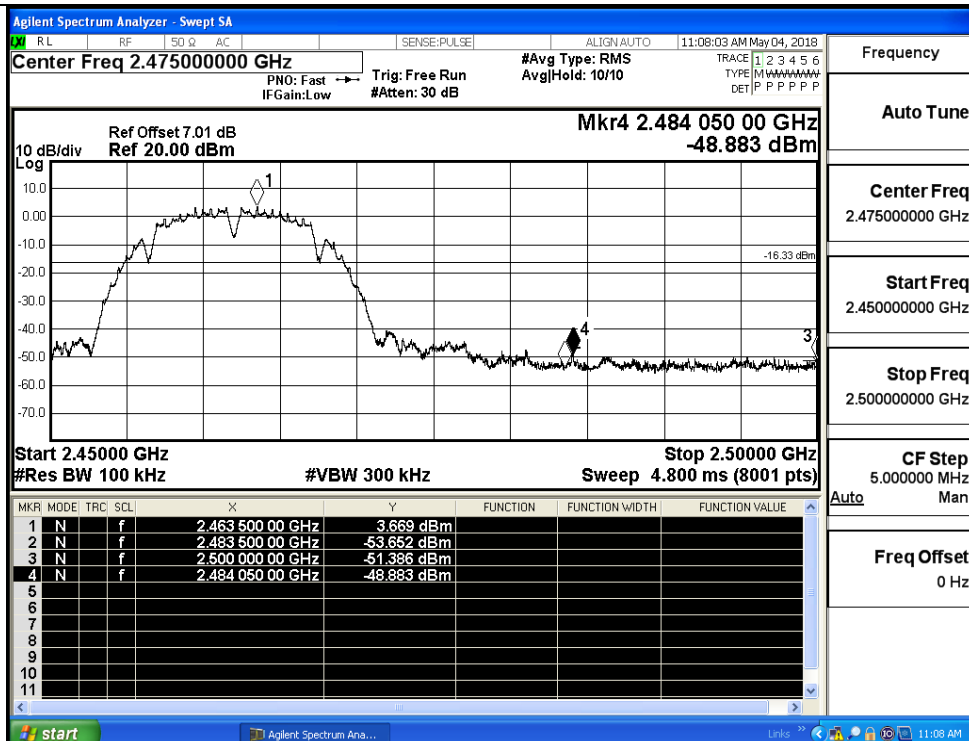


C.5 Band-edge for RF Conducted Emissions

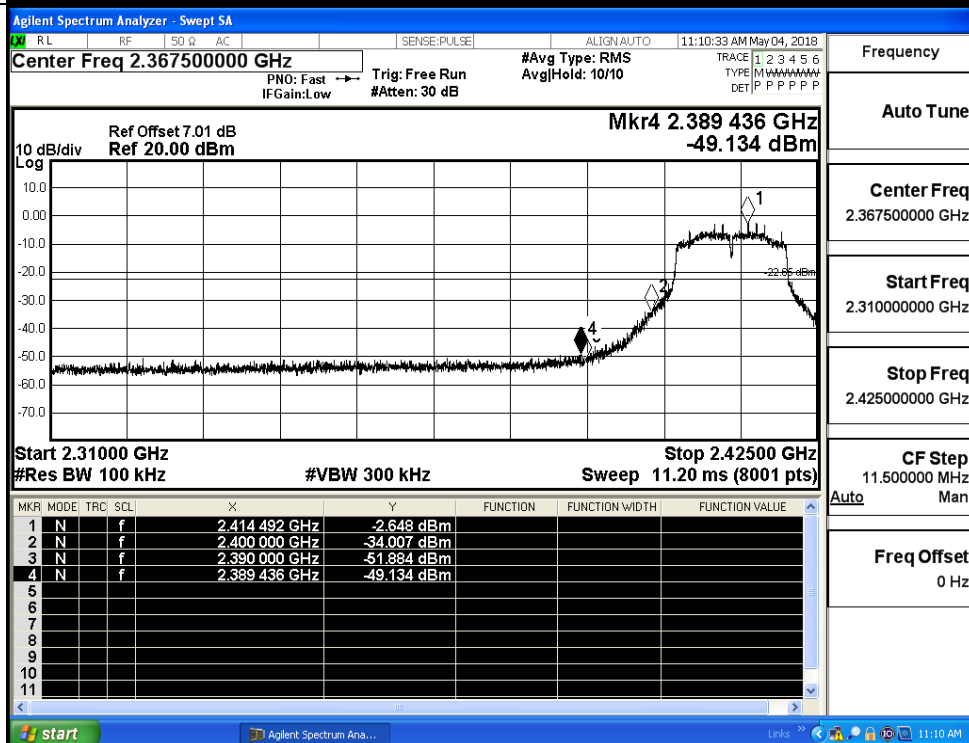
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	3.139	-47.190	-16.86	PASS
	HCH	3.669	-48.883	-16.33	PASS
11G	LCH	-2.648	-49.134	-22.65	PASS
	HCH	-2.979	-49.360	-22.98	PASS
11N20SISO	LCH	-3.280	-47.737	-23.28	PASS
	HCH	-1.751	-48.941	-21.75	PASS



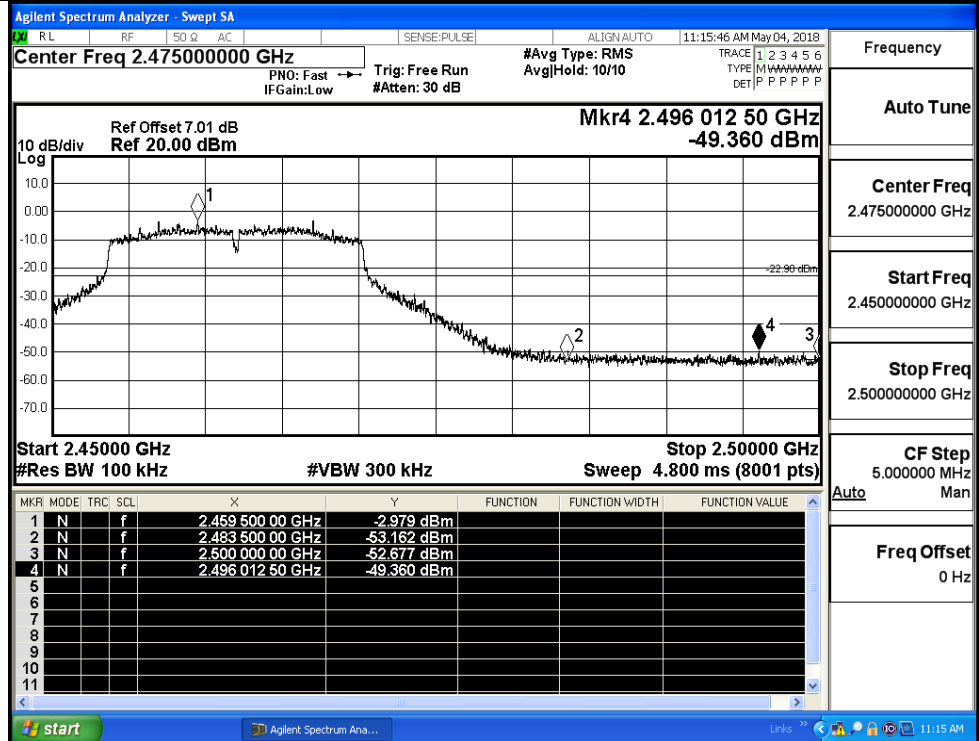
11B/HCH



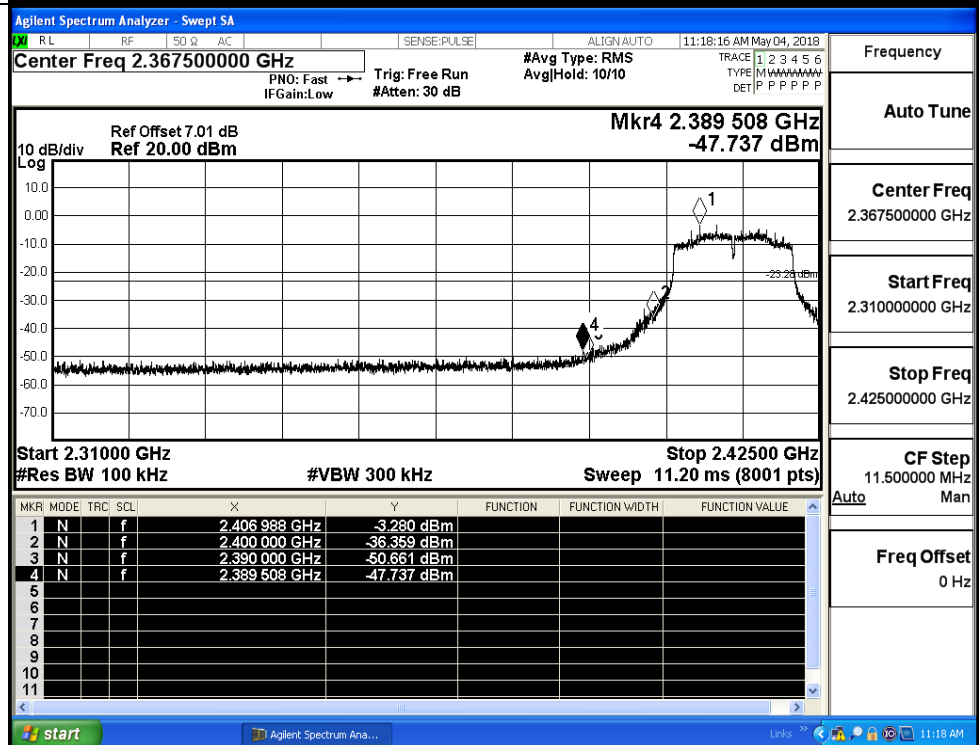
11G/LCH



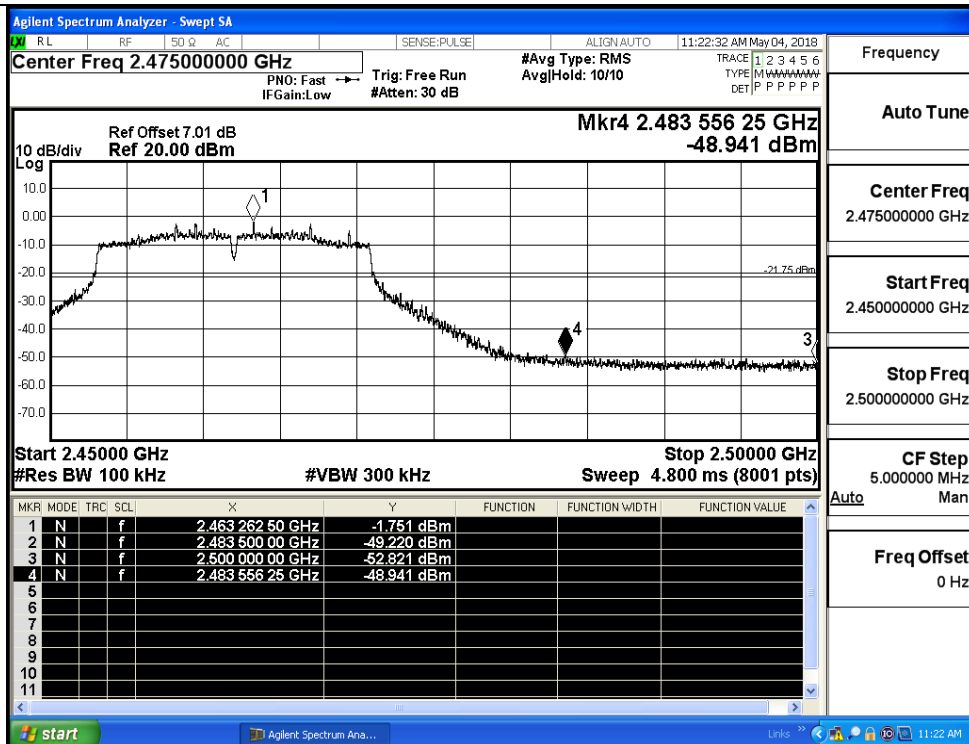
11G/HCH



11N20SISO/LCH



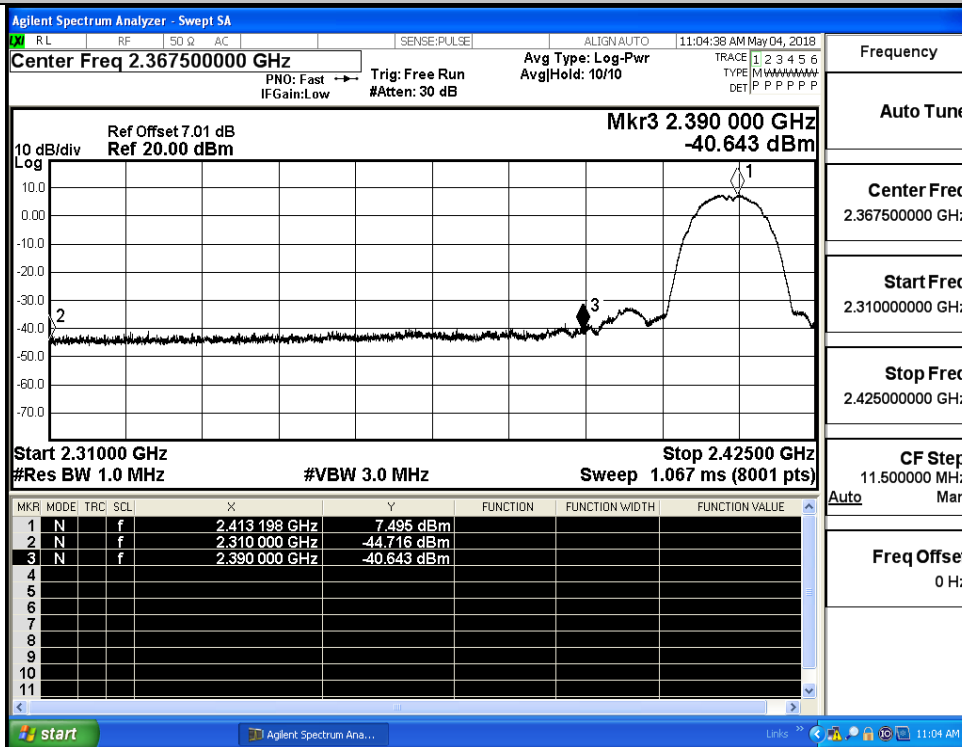
11N20SISO/HCH



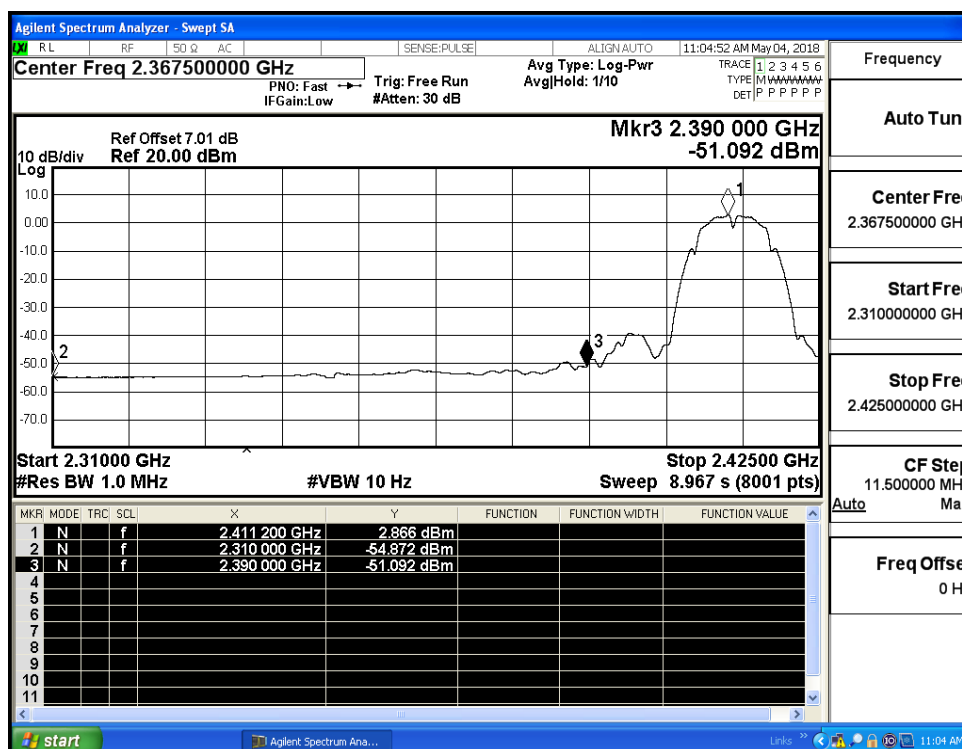
C.6 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-44.72	3.0	0	53.54	PEAK	74	PASS
	2412	Ant1	2310.0	-54.87	3.0	0	43.39	AV	54	PASS
	2412	Ant1	2390.0	-40.64	3.0	0	57.62	PEAK	74	PASS
	2412	Ant1	2390.0	-51.09	3.0	0	47.17	AV	54	PASS
	2462	Ant1	2483.5	-41.43	3.0	0	56.83	PEAK	74	PASS
	2462	Ant1	2483.5	-52.62	3.0	0	45.64	AV	54	PASS
	2462	Ant1	2500.0	-43.18	3.0	0	55.08	PEAK	74	PASS
	2462	Ant1	2500.0	-53.54	3.0	0	44.72	AV	54	PASS
11G	2412	Ant1	2310.0	-45.86	3.0	0	52.40	PEAK	74	PASS
	2412	Ant1	2310.0	-54.88	3.0	0	43.38	AV	54	PASS
	2412	Ant1	2390.0	-40.19	3.0	0	58.07	PEAK	74	PASS
	2412	Ant1	2390.0	-51.47	3.0	0	46.79	AV	54	PASS
	2462	Ant1	2483.5	-43.00	3.0	0	55.26	PEAK	74	PASS
	2462	Ant1	2483.5	-52.61	3.0	0	45.65	AV	54	PASS
	2462	Ant1	2500.0	-42.37	3.0	0	55.89	PEAK	74	PASS
	2462	Ant1	2500.0	-53.43	3.0	0	44.83	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-45.28	3.0	0	52.98	PEAK	74	PASS
	2412	Ant1	2310.0	-54.90	3.0	0	43.36	AV	54	PASS
	2412	Ant1	2390.0	-39.60	3.0	0	58.66	PEAK	74	PASS
	2412	Ant1	2390.0	-50.88	3.0	0	47.38	AV	54	PASS
	2462	Ant1	2483.5	-37.21	3.0	0	61.05	PEAK	74	PASS
	2462	Ant1	2483.5	-52.07	3.0	0	46.19	AV	54	PASS
	2462	Ant1	2500.0	-43.84	3.0	0	54.42	PEAK	74	PASS
	2462	Ant1	2500.0	-53.42	3.0	0	44.84	AV	54	PASS

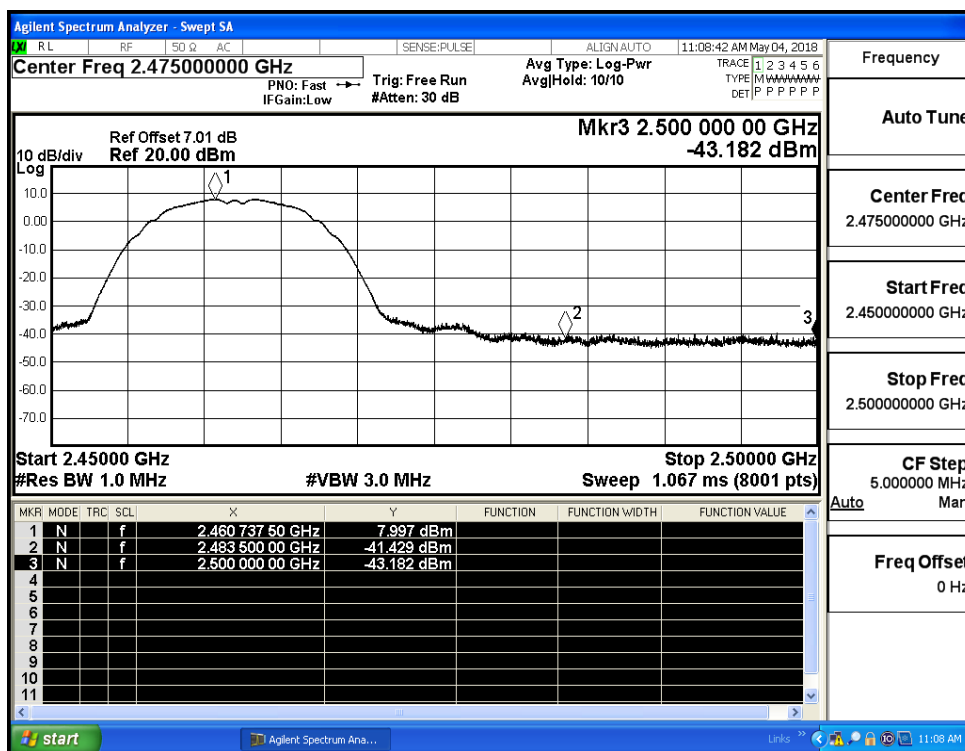
Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



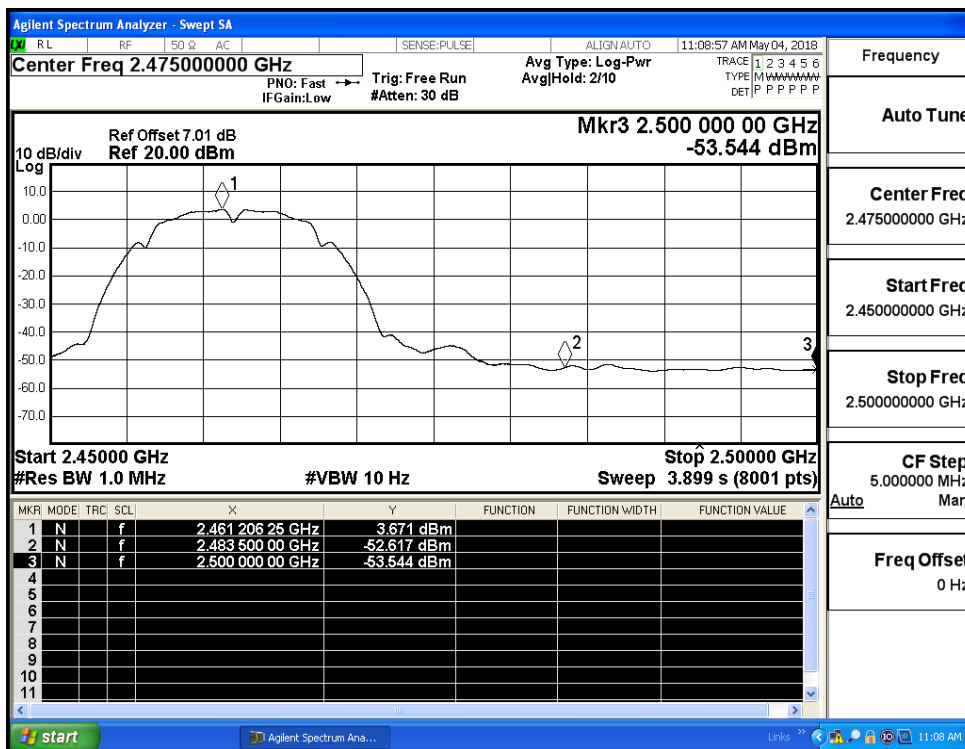
Restrict-band band-edge measurements_11B_2412_Ant1_AV



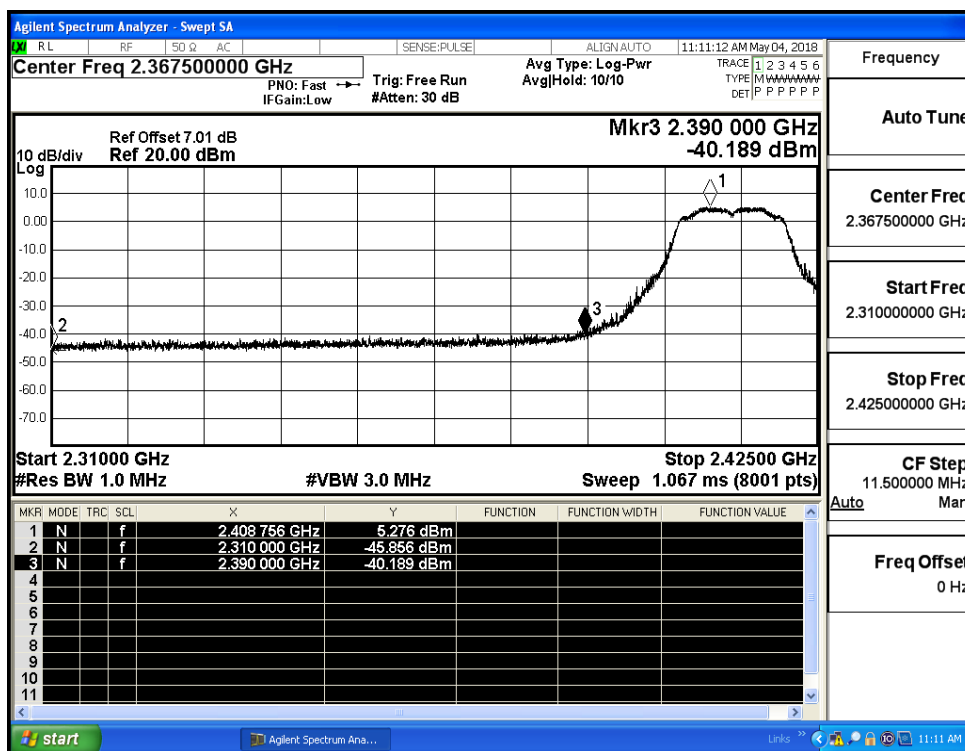
Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



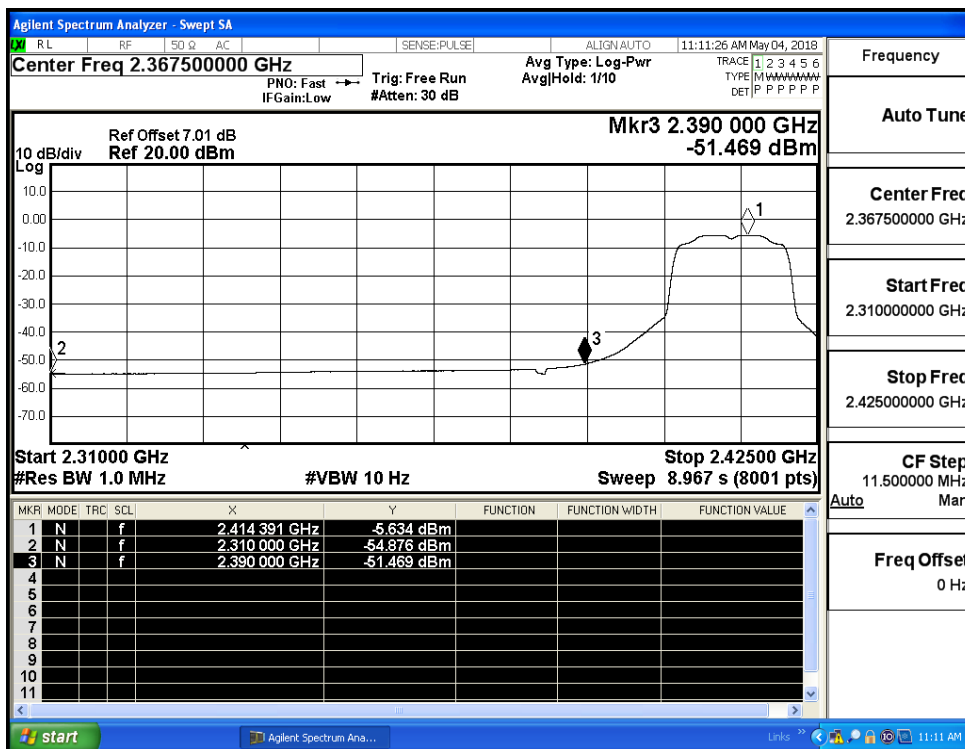
Restrict-band band-edge measurements_11B_2462_Ant1_AV



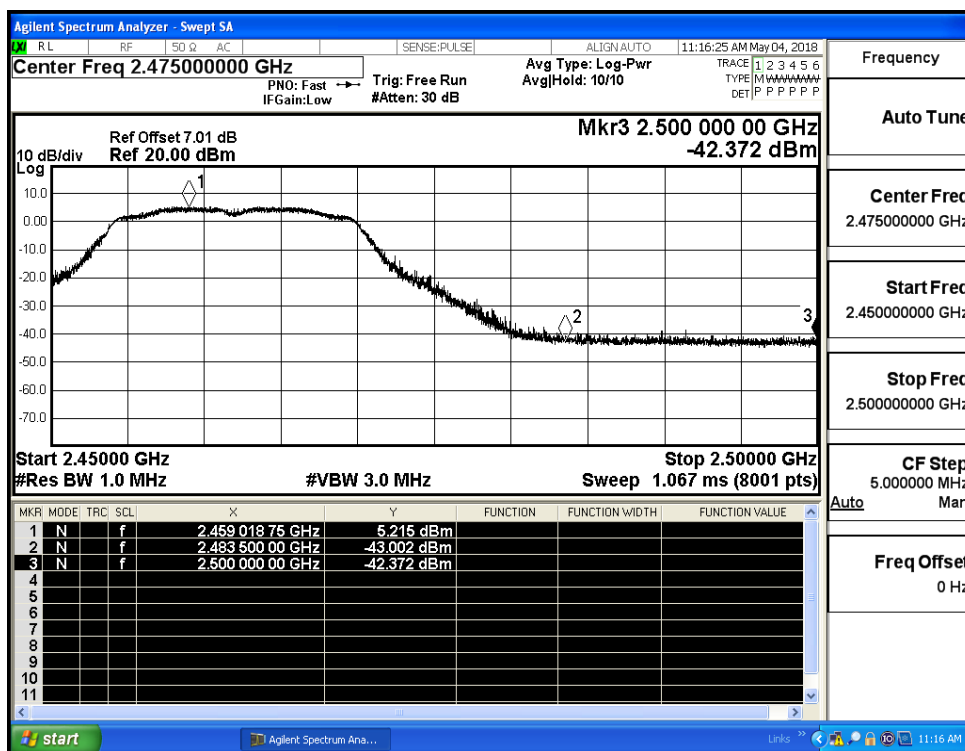
Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



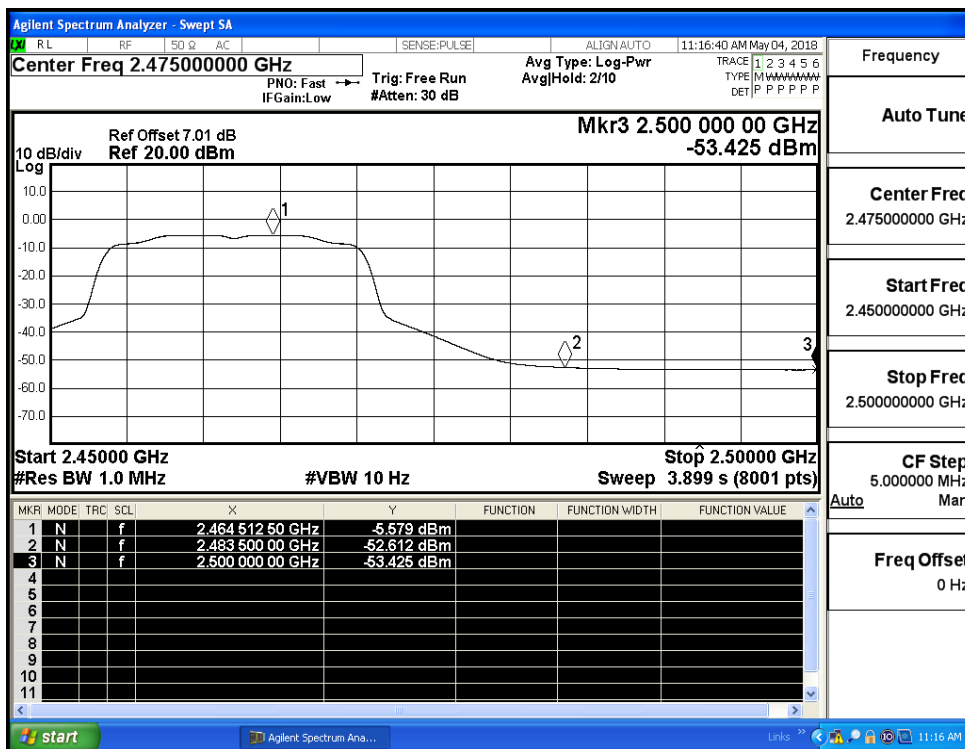
Restrict-band band-edge measurements_11G_2412_Ant1_AV



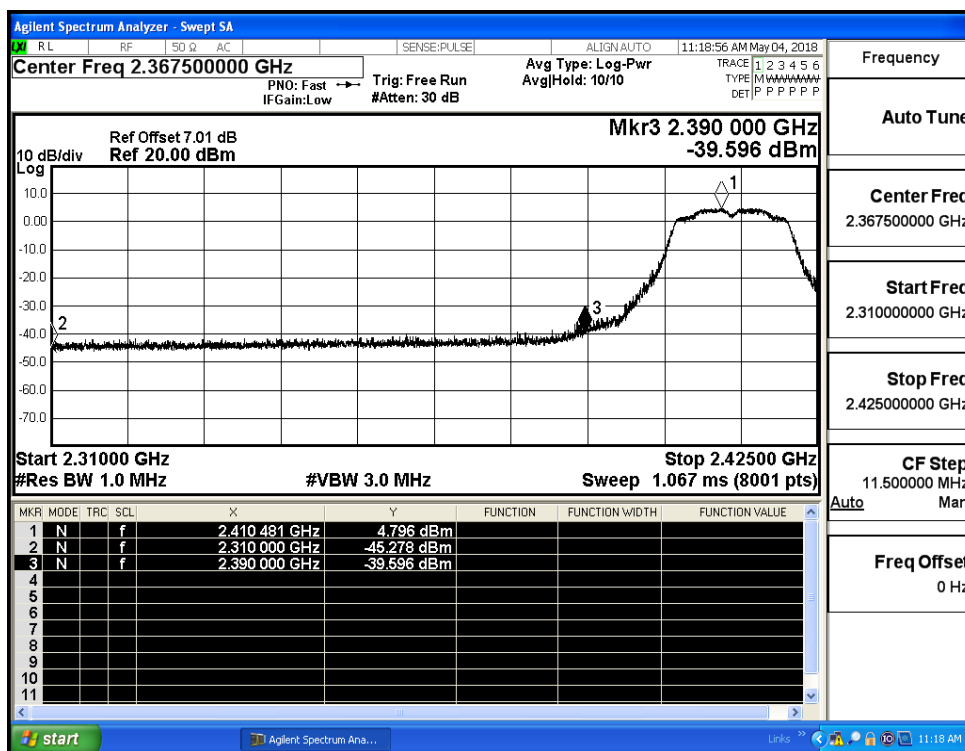
Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



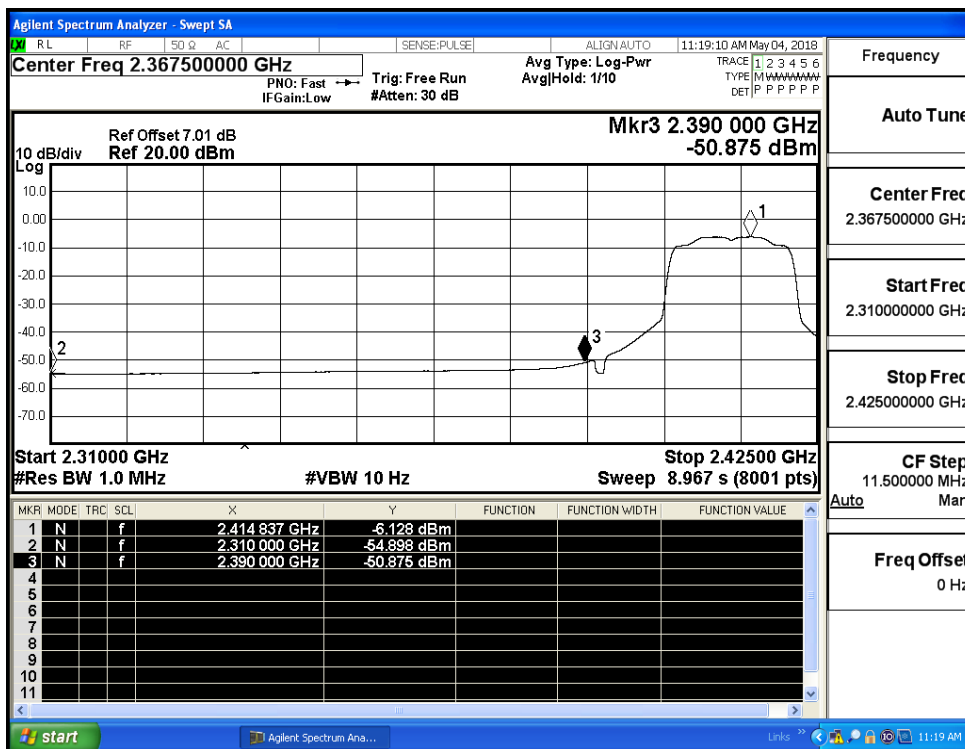
Restrict-band band-edge measurements_11G_2462_Ant1_AV



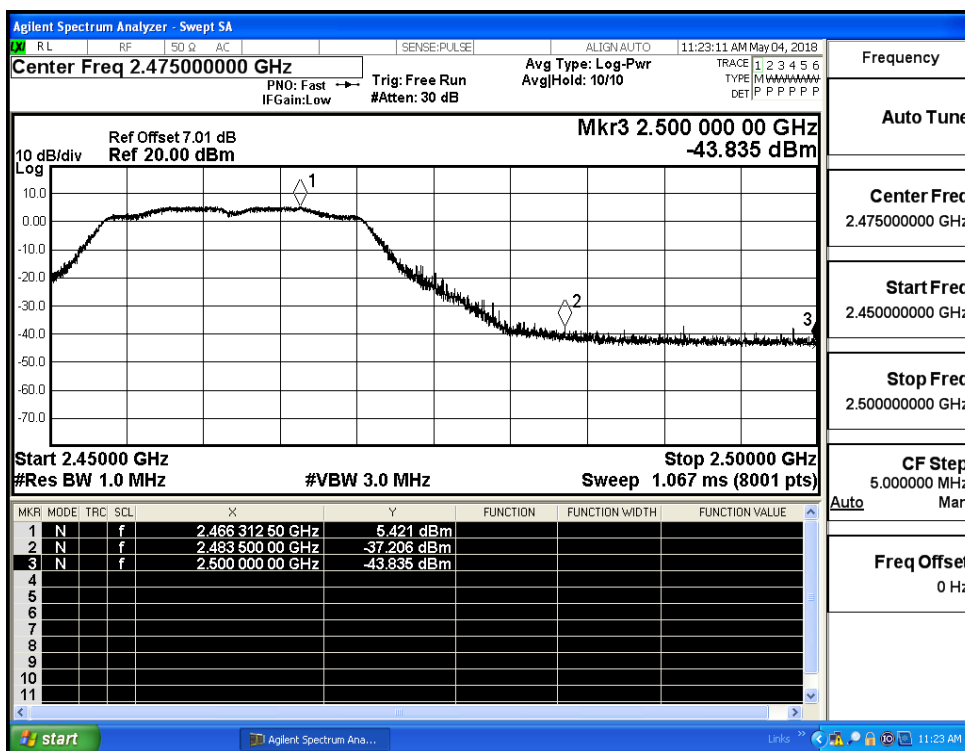
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



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

