

Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: 300 Mbps Wireless Broadband Router

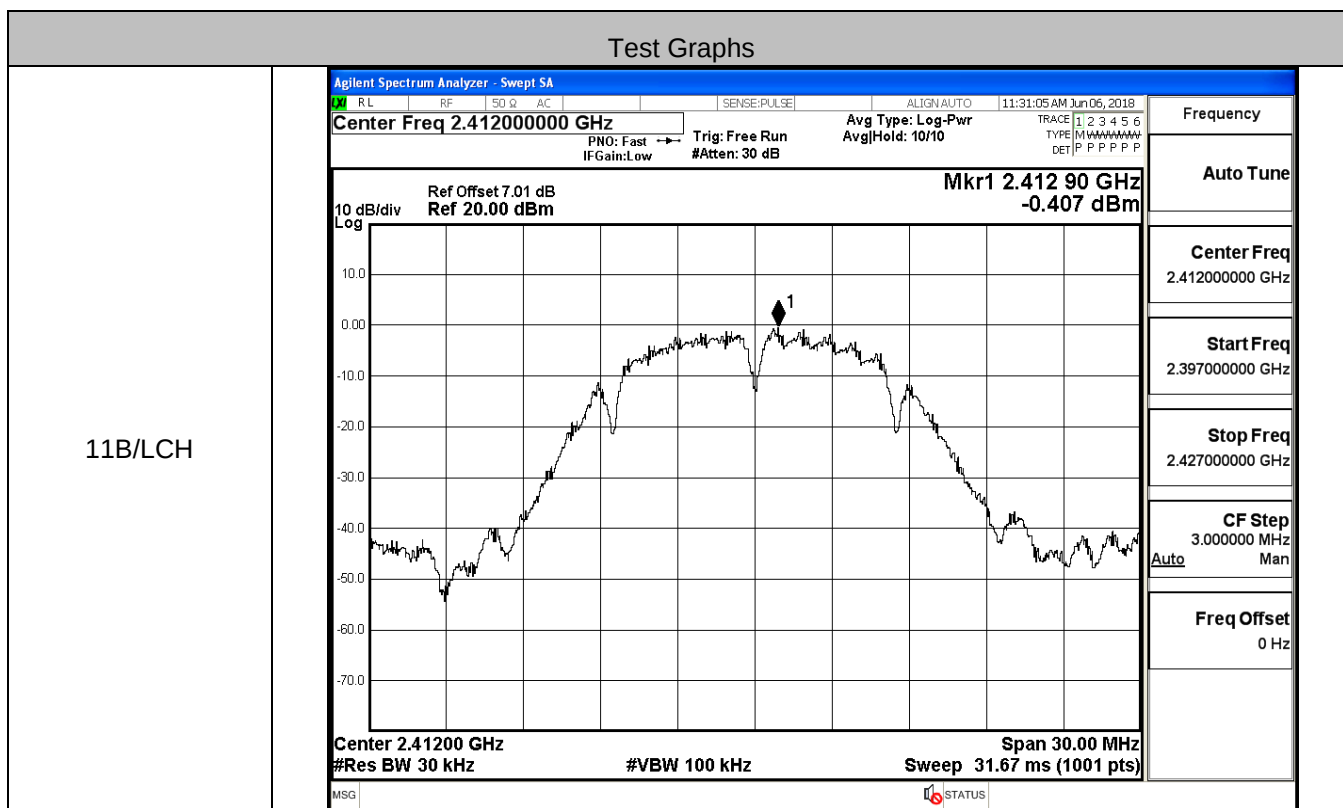
Trade Mark: Perfect

Test Model: PFTP-WR300

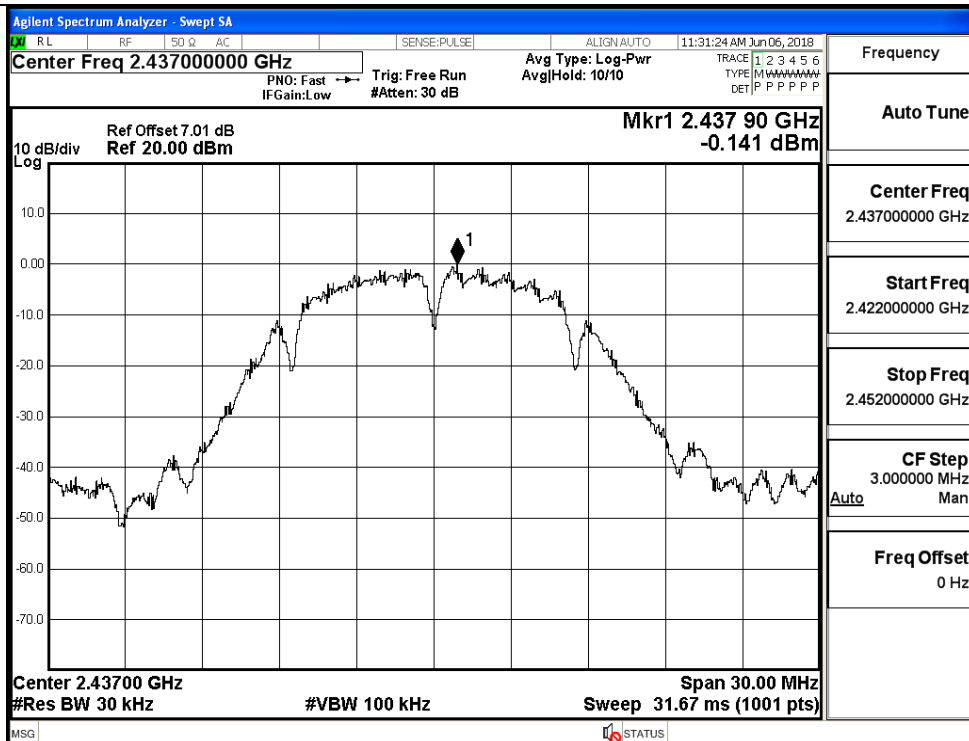
Environmental Conditions

Temperature:	23.4 ° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.xu
Supervised by:	Tom.Liu

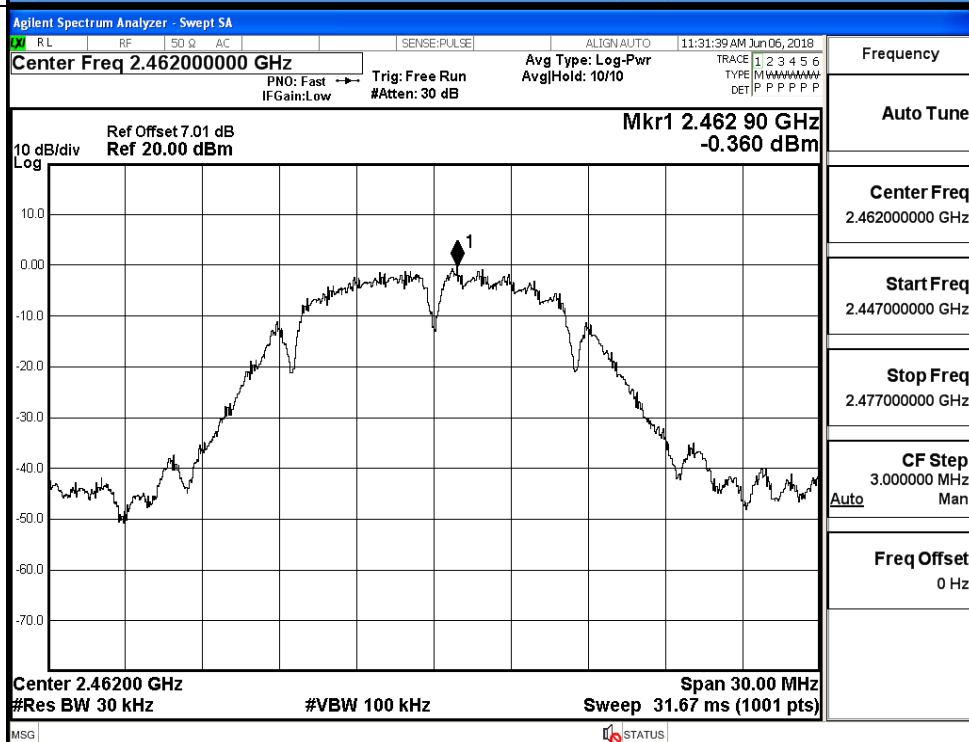
B.1 Maximum Power Spectral Density



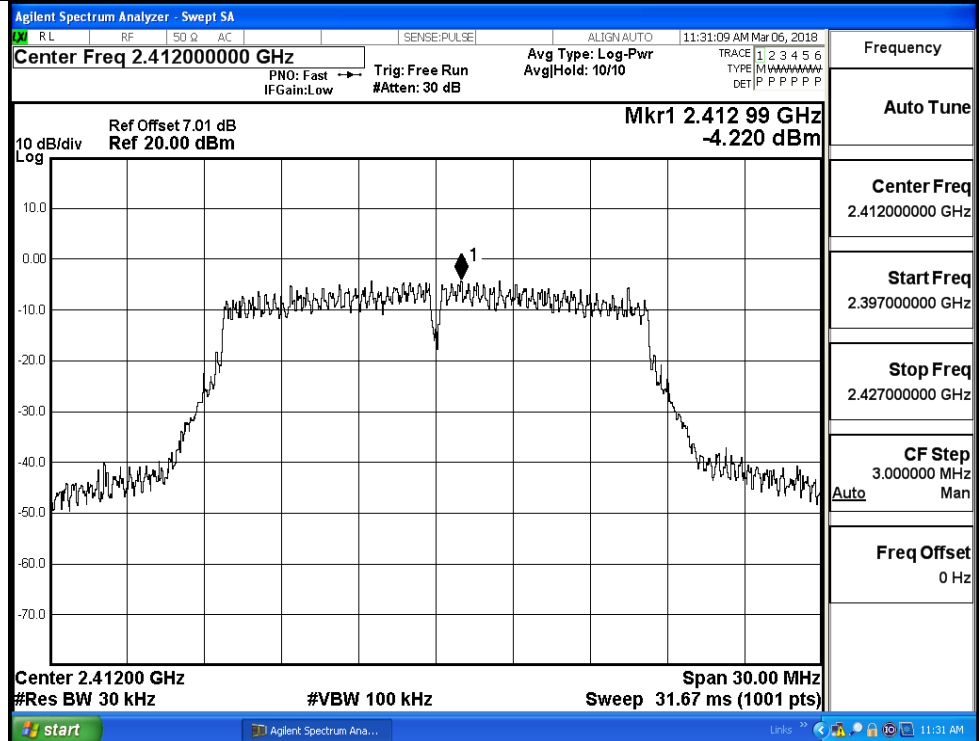
11B/MCH



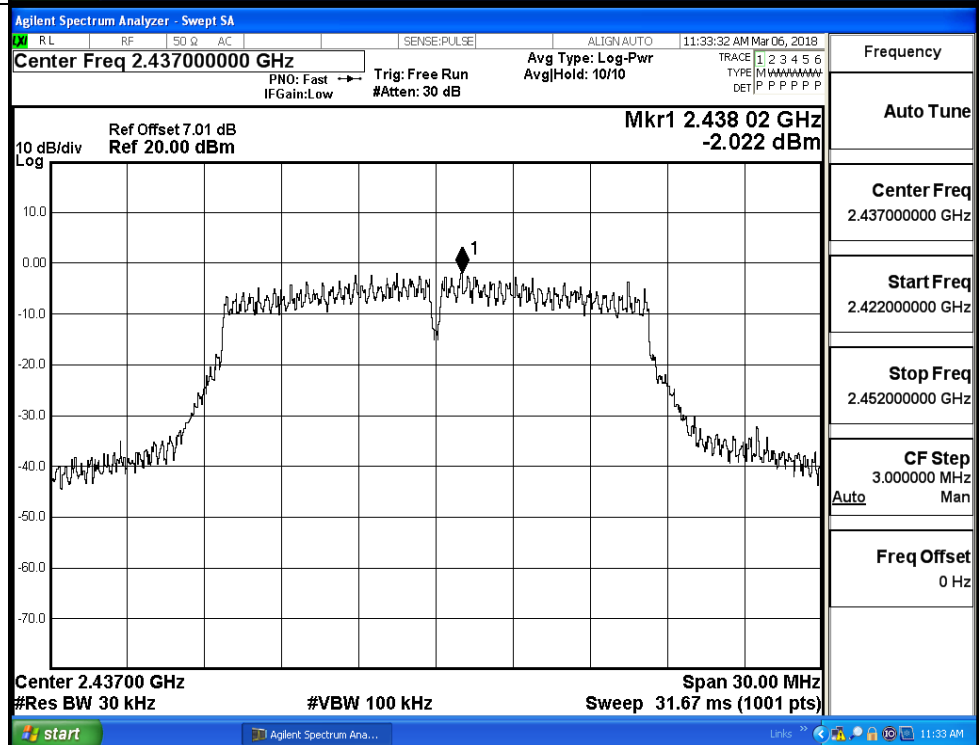
11B/HCH



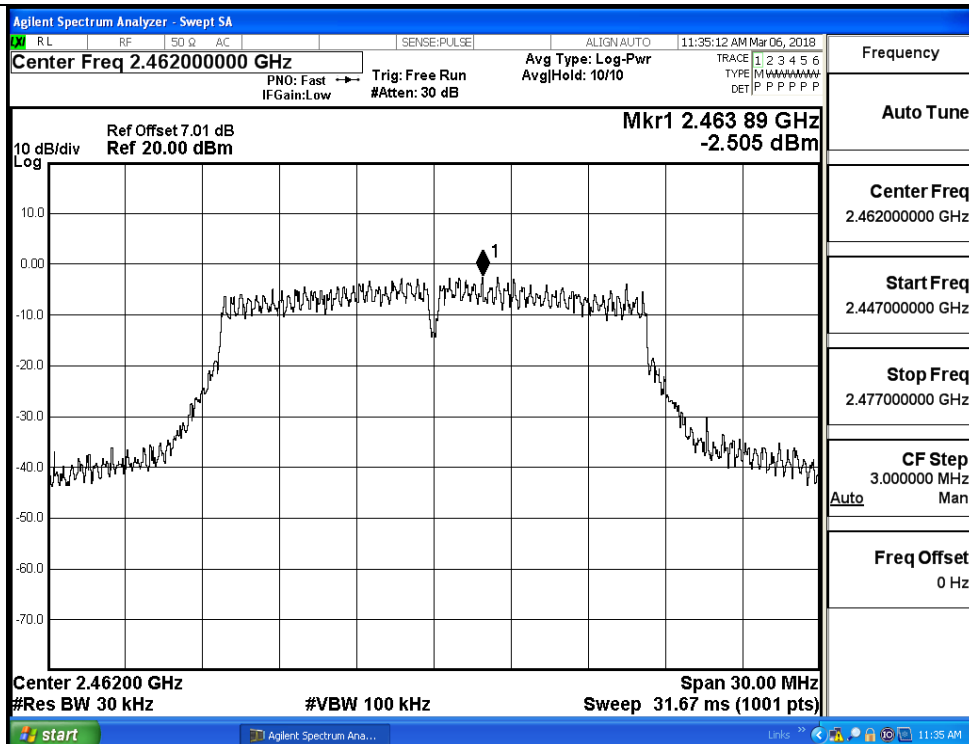
11G/LCH



11G/MCH



11G/HCH



Frequency

Auto Tune

Center Freq
2.46200000 GHz

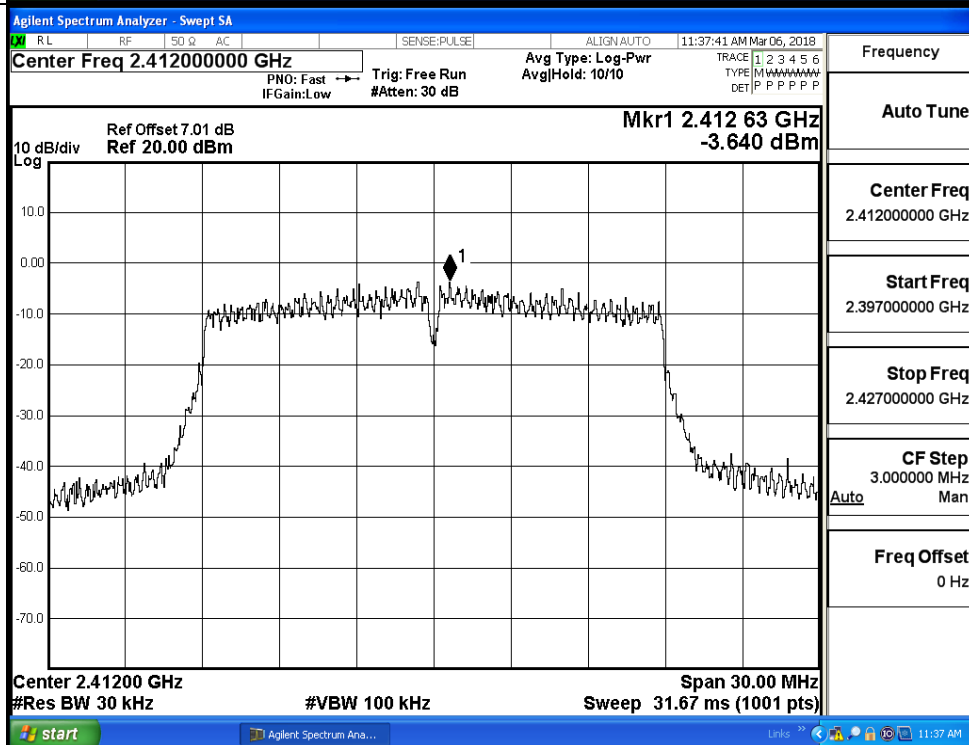
Start Freq
2.447000000 GHz

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

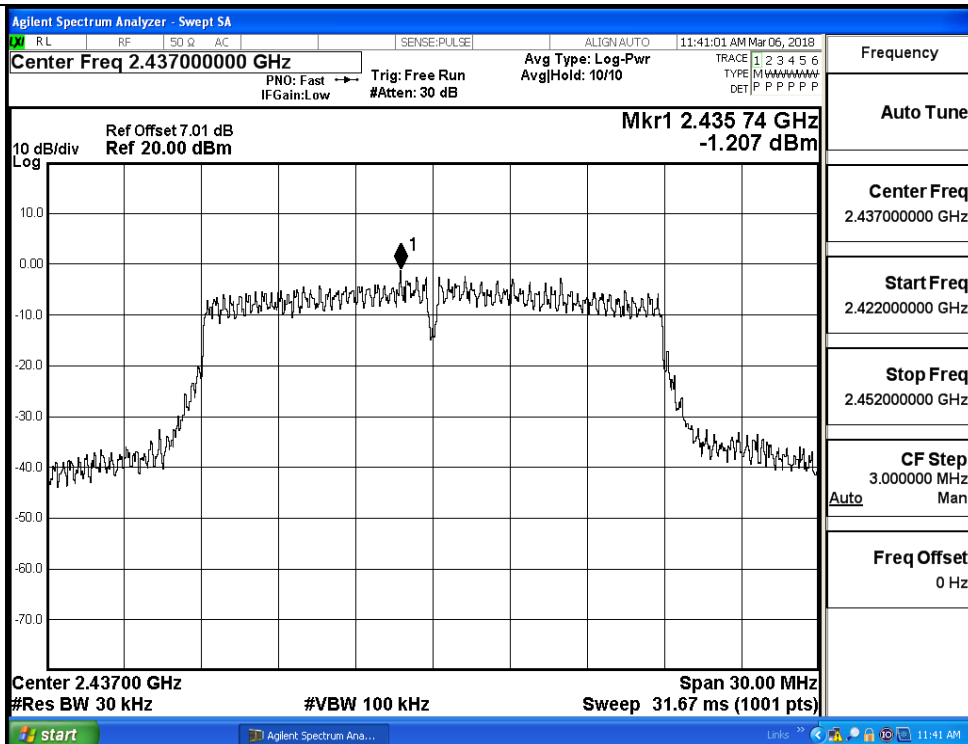
Start Freq
2.397000000 GHz

Stop Freq
2.427000000 GHz

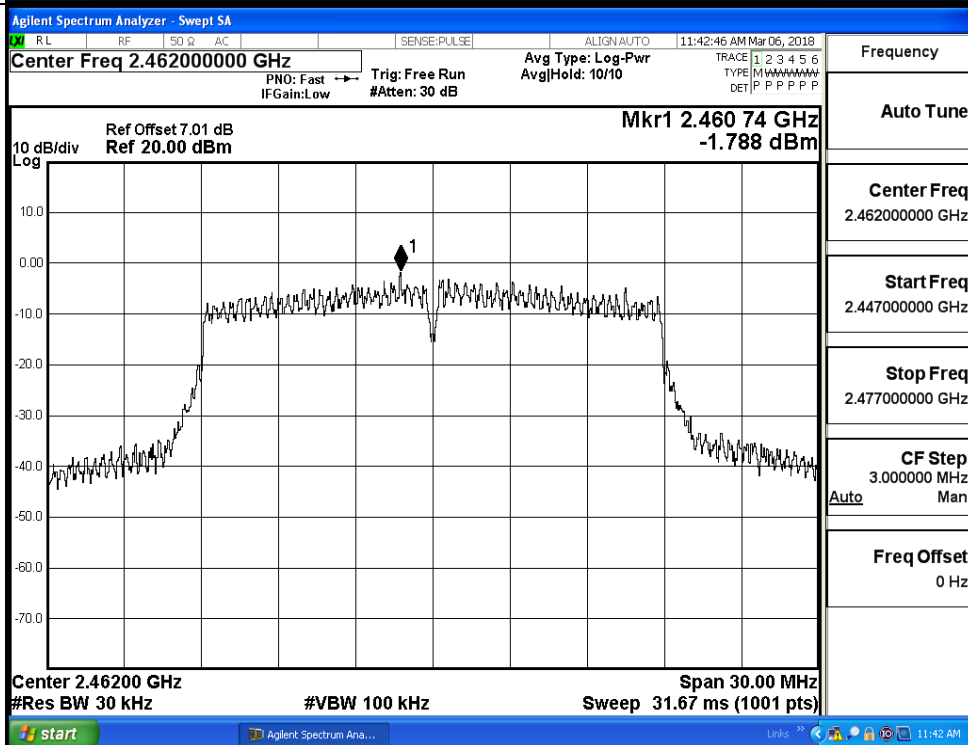
CF Step
3.000000 MHz
Auto Man

Freq Offset
0 Hz

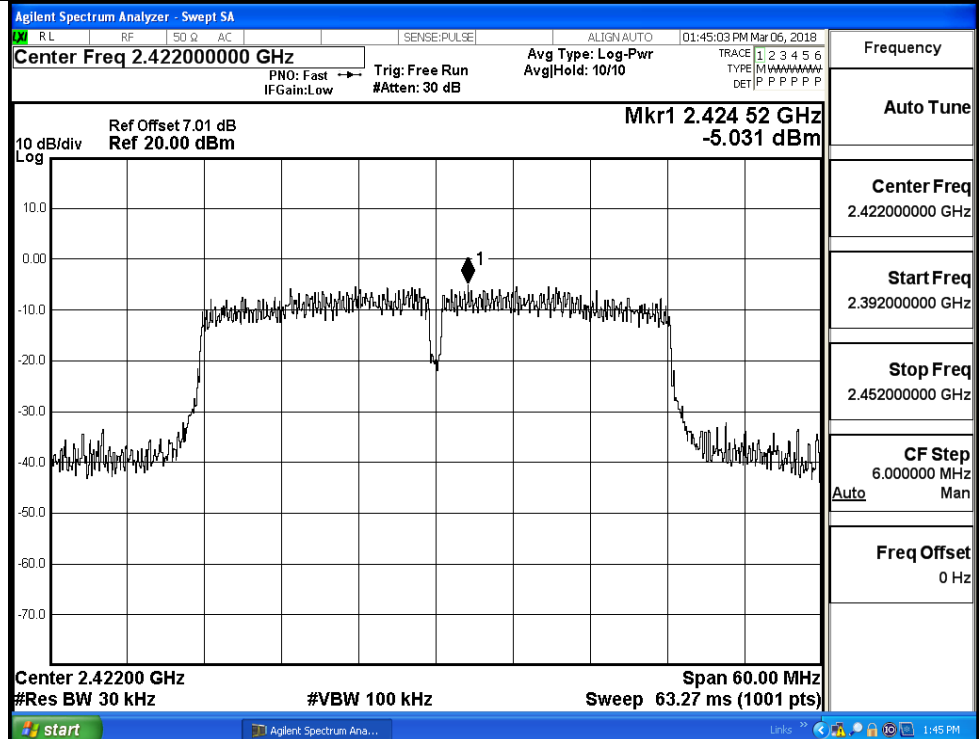
11N20SISO/MCH



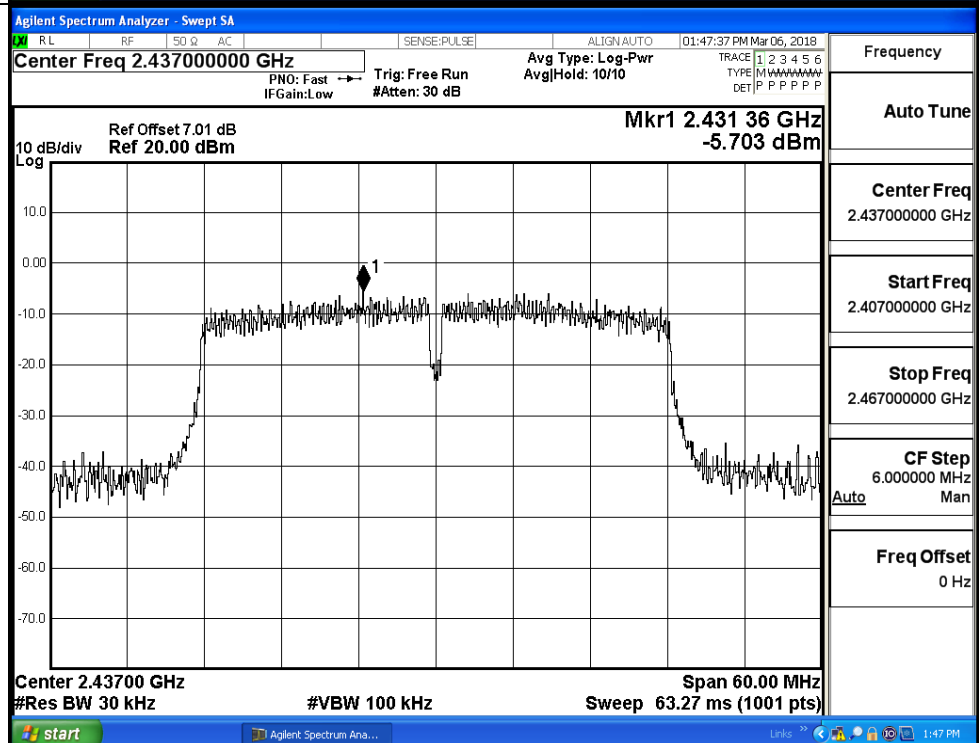
11N20SISO/HCH



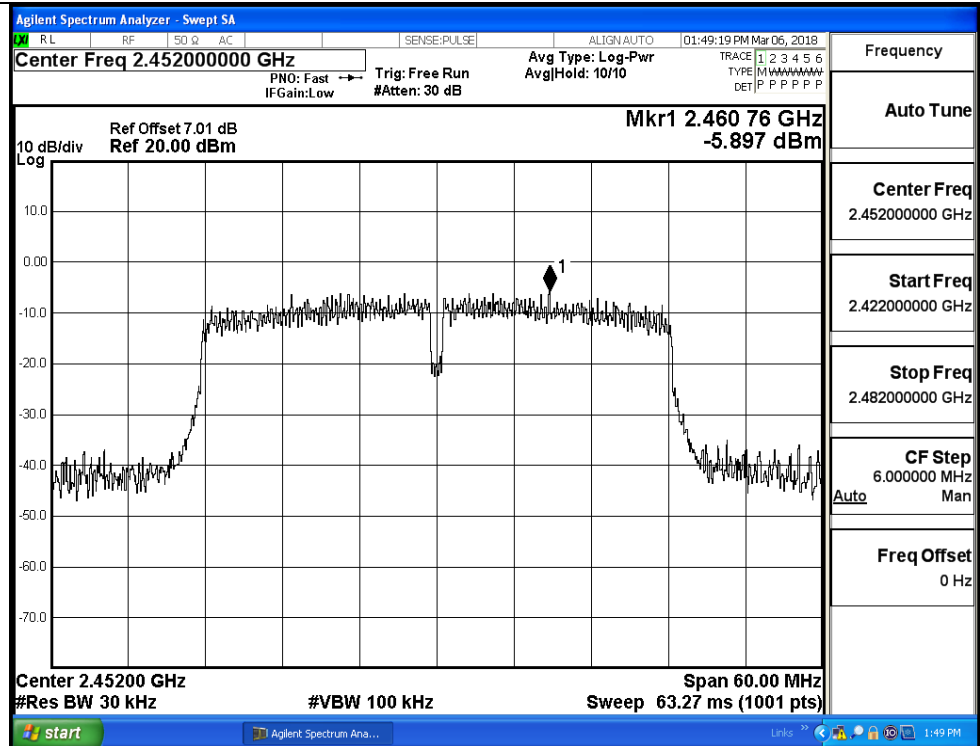
11N40SISO/LCH



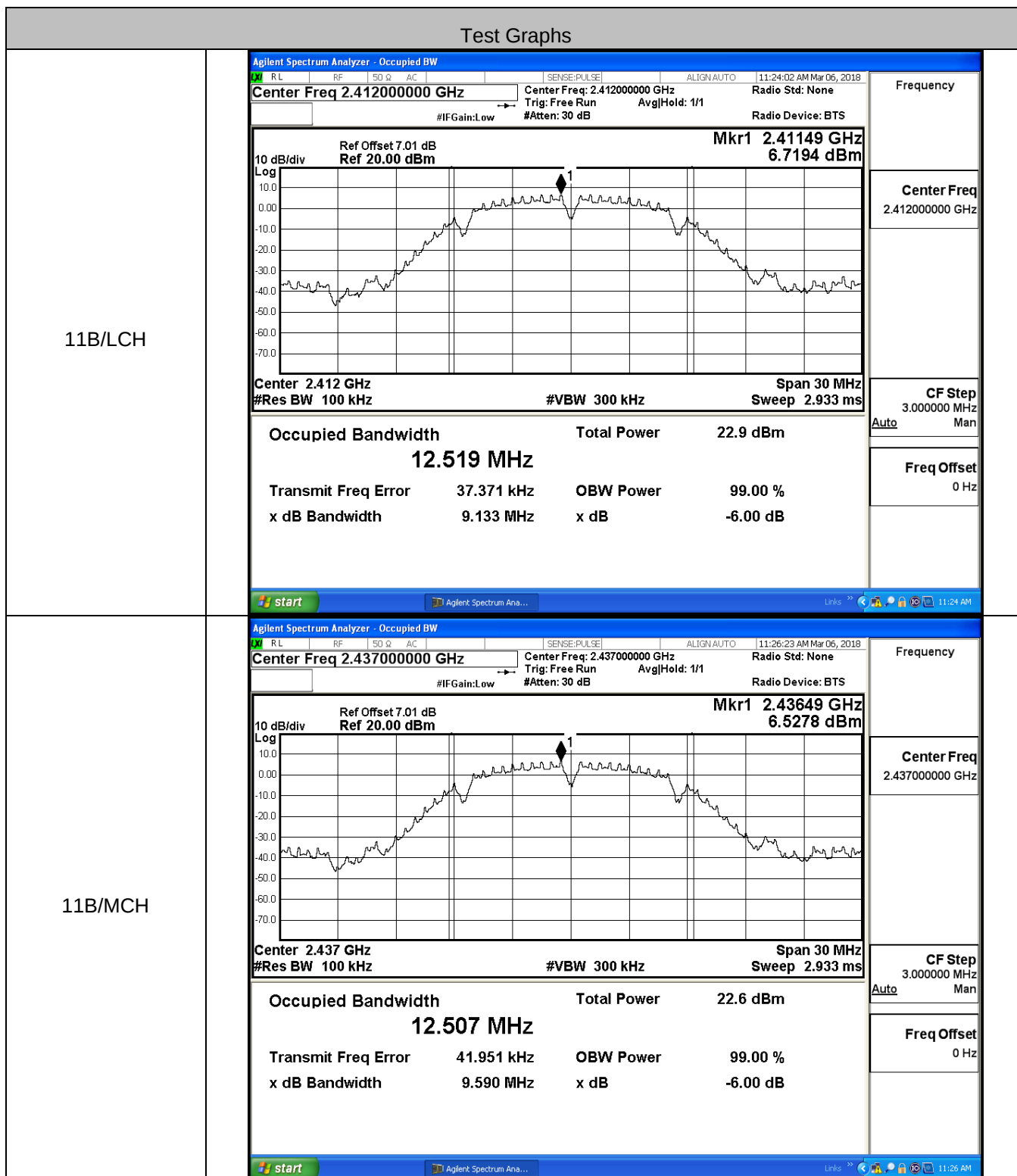
11N40SISO/MCH



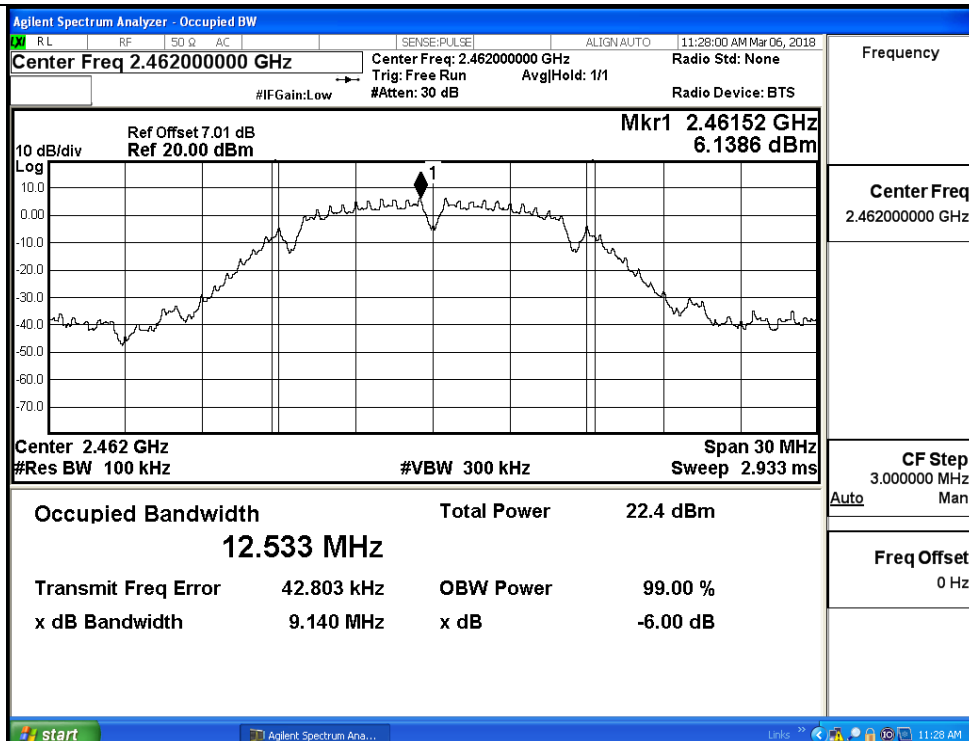
11N40SISO/HCH



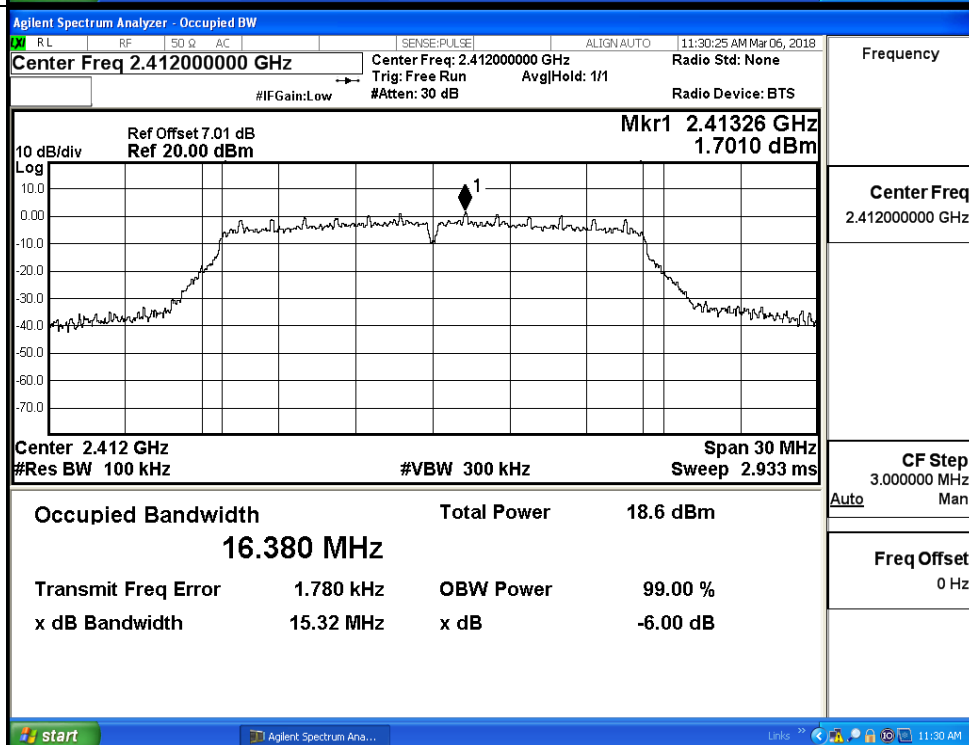
B.2 6dB Bandwidth



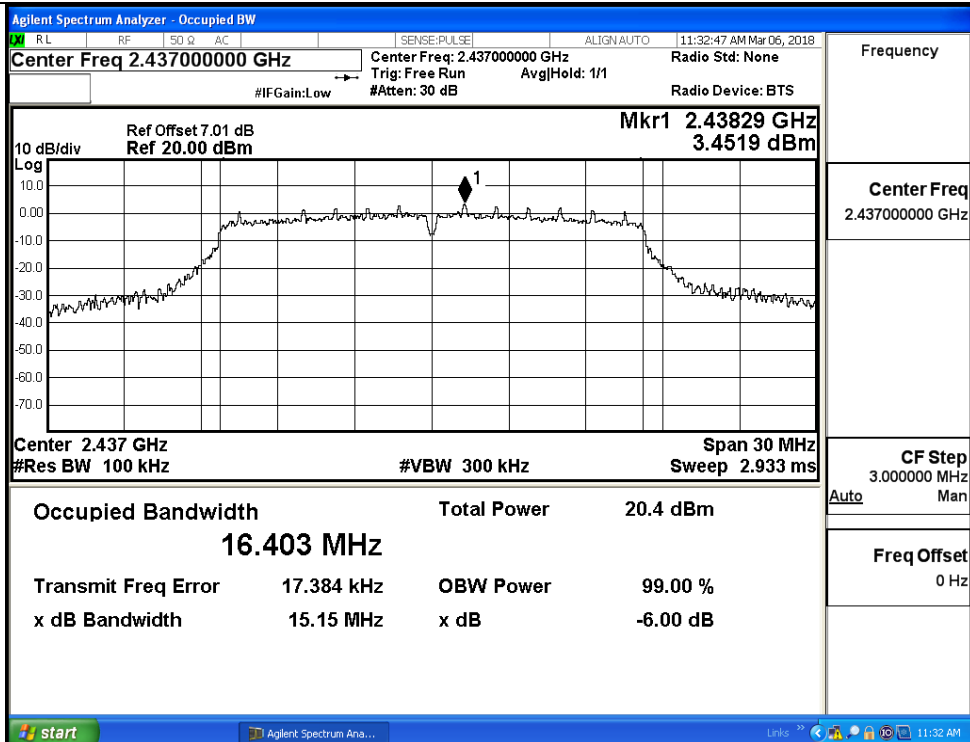
11B/HCH



11G/LCH



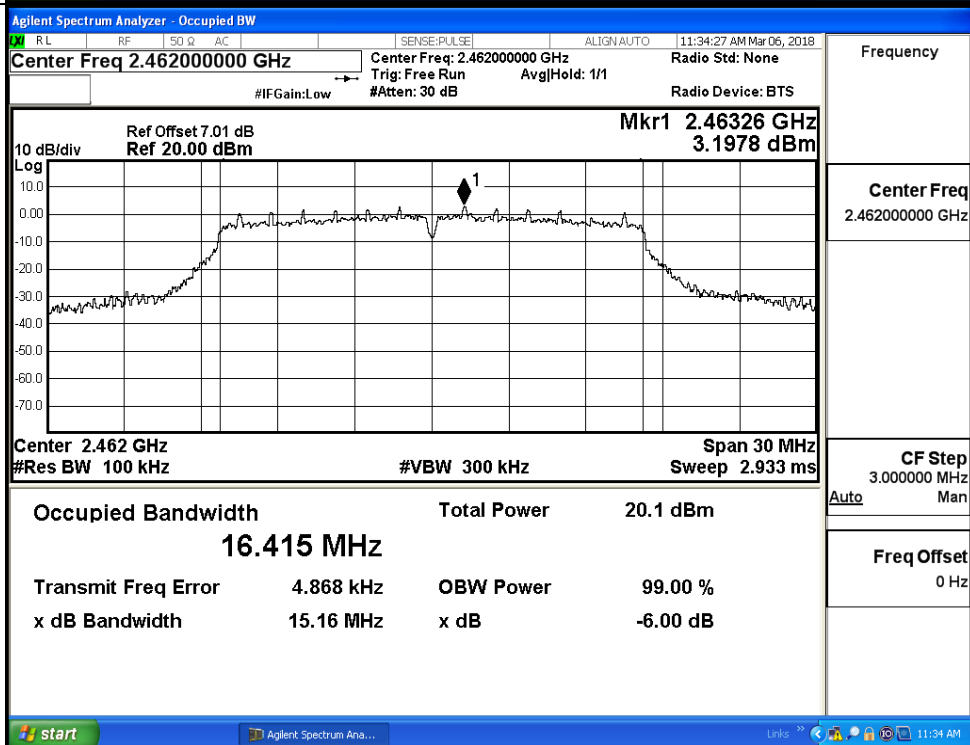
11G/MCH



Frequency

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

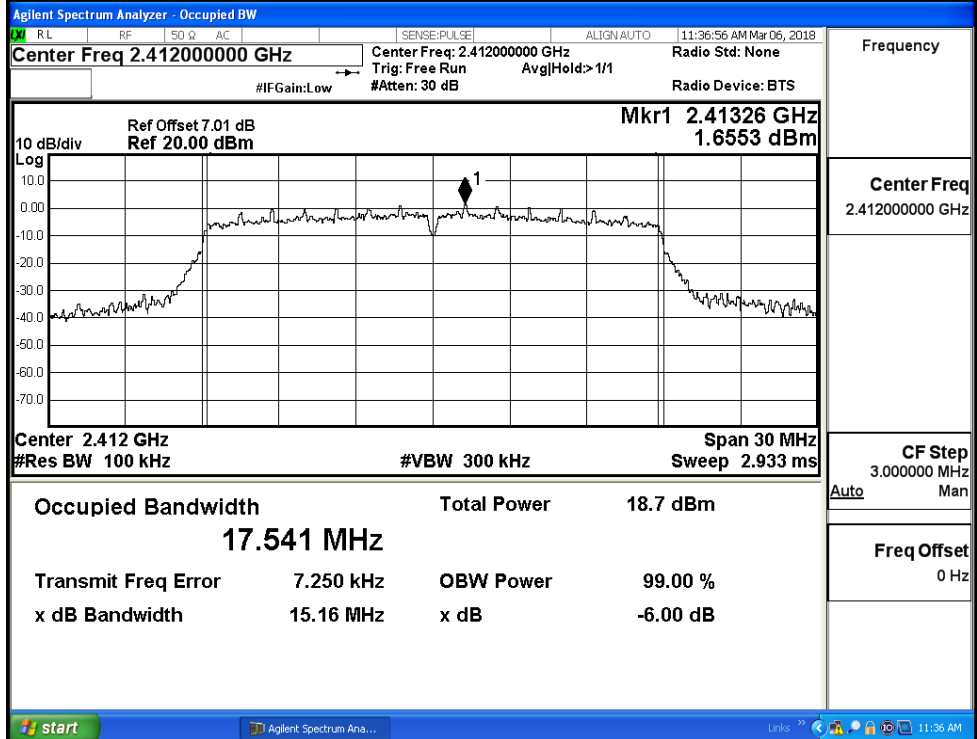
11G/HCH



Frequency

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

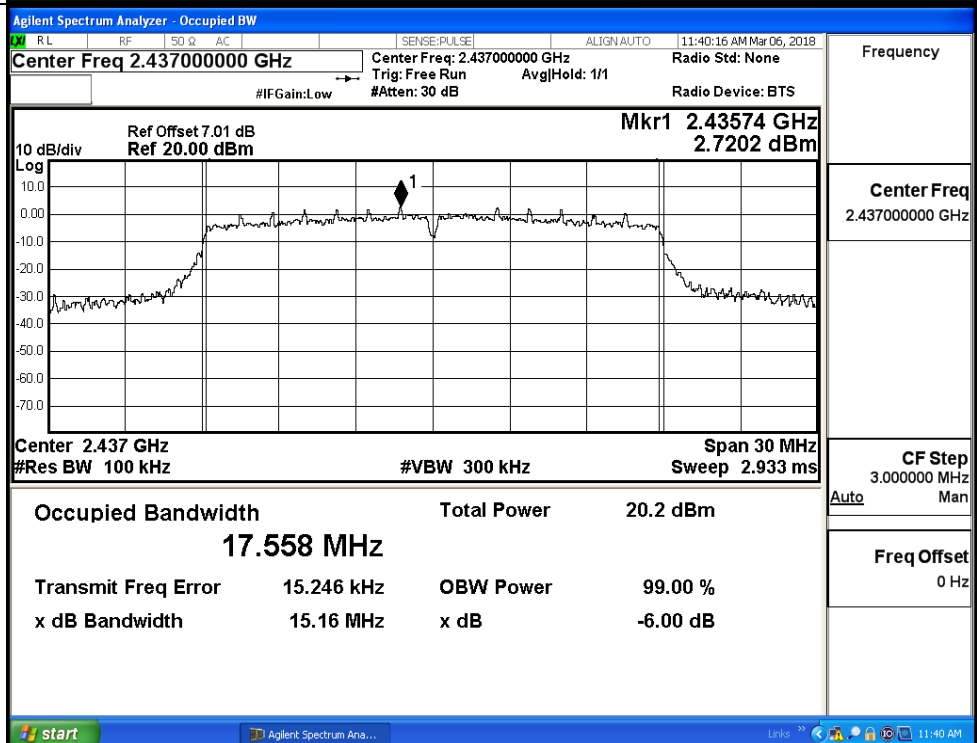
11N20SISO/LCH



Frequency

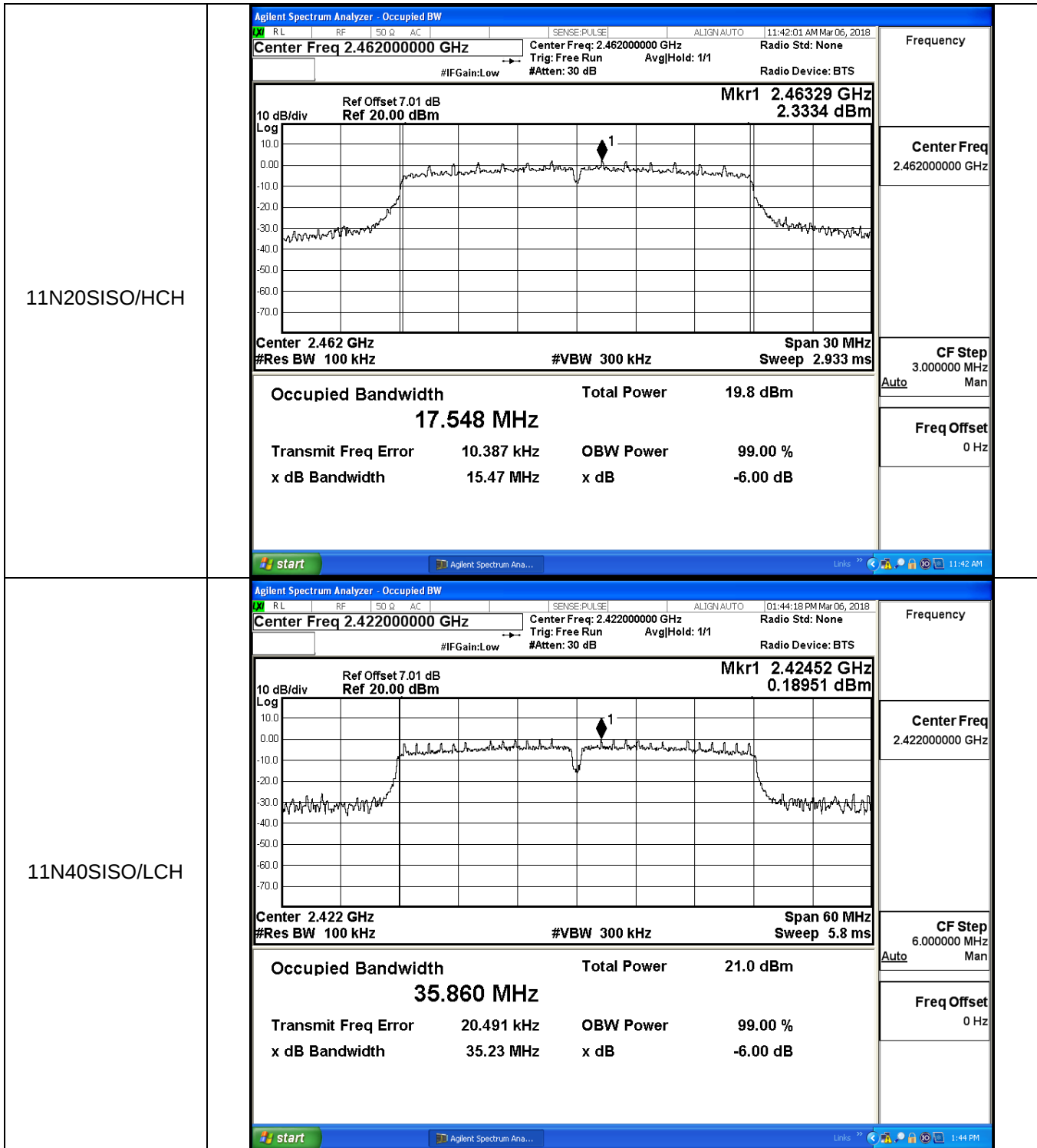
Center Freq
2.412000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

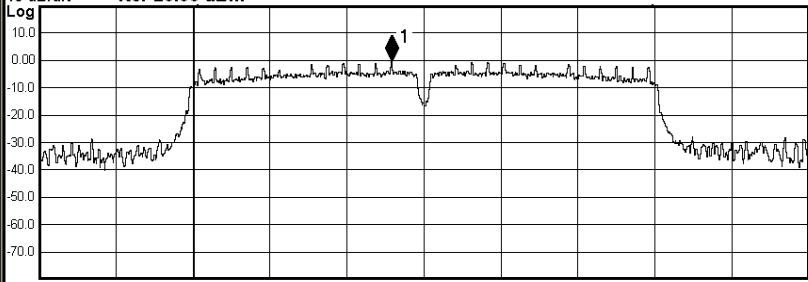
11N20SISO/MCH



Frequency

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



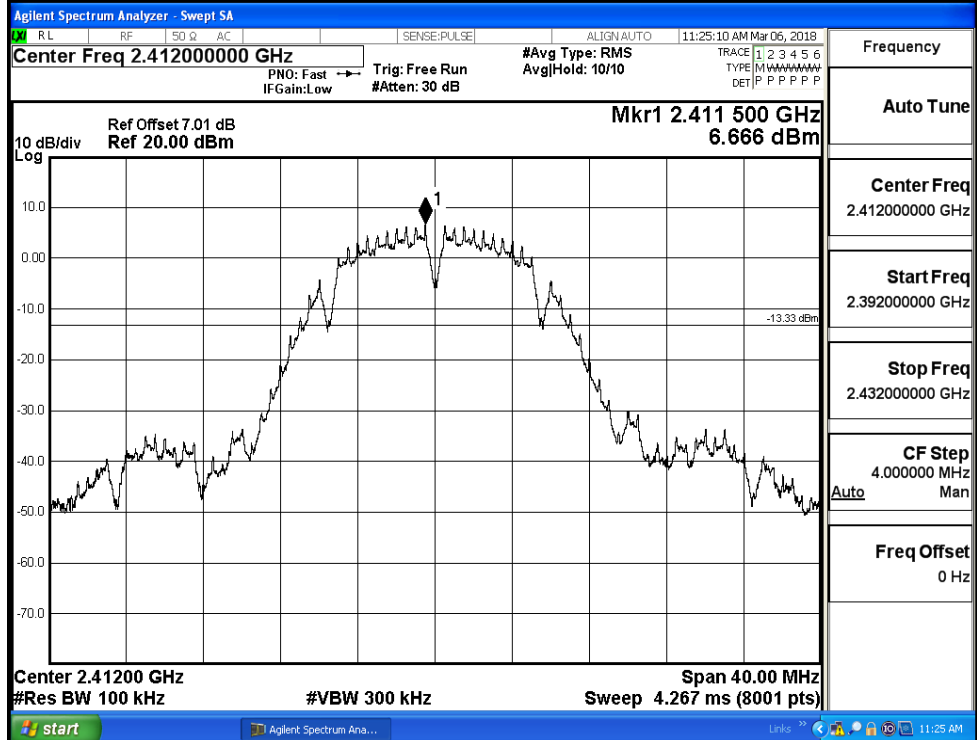
11N40SISO/MCH	Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 01:46:53 PM Mar 06, 2018 Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz Trig: Free Run Avg/Hold: 1/1 Radio Std: None #IFGain:Low #Atten: 30 dB Radio Device: BTS 10 dB/div Ref Offset 7.01 dB Ref 20.00 dBm Mkr1 2.43448 GHz -0.57899 dBm  Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth Total Power 20.2 dBm 35.820 MHz Transmit Freq Error 41.047 kHz OBW Power 99.00 % x dB Bandwidth 35.22 MHz x dB -6.00 dB start Agilent Spectrum Ana... Links 1:46 PM
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B.3 RF Conducted Spurious Emissions

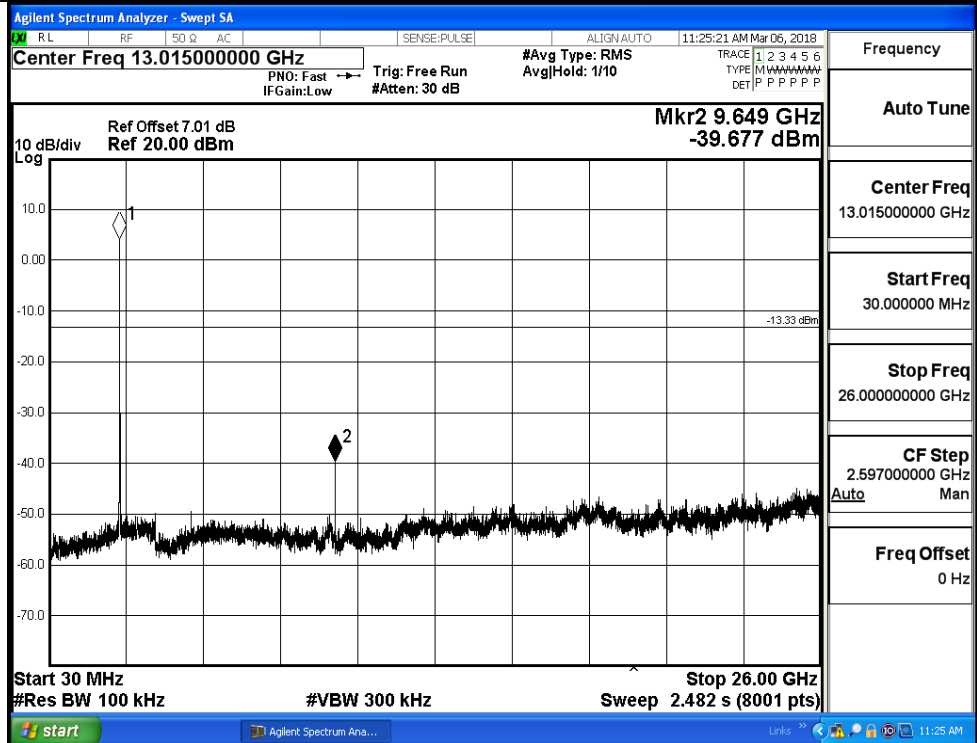
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	6.666	-39.677	-13.334	PASS
	MCH	6.648	-41.547	-13.352	PASS
	HCH	6.354	-44.379	-13.646	PASS
11G	LCH	1.343	-44.645	-18.657	PASS
	MCH	3.369	-44.655	-16.631	PASS
	HCH	2.613	-44.607	-17.387	PASS
11N20 SISO	LCH	1.235	-44.833	-18.765	PASS
	MCH	3.197	-44.633	-16.803	PASS
	HCH	2.781	-44.615	-17.219	PASS
11N40 SISO	LCH	0.333	-45.259	-19.667	PASS
	MCH	-0.527	-44.937	-20.527	PASS
	HCH	-0.359	-44.543	-20.359	PASS

11B LCH Graphs

Pref/11B/LCH

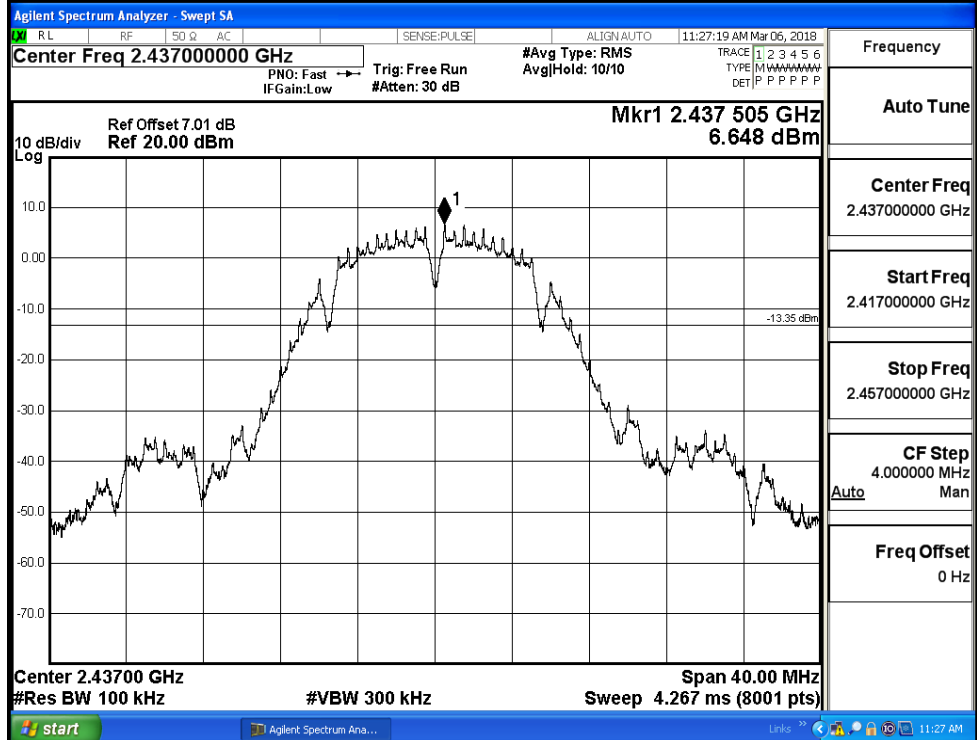


Puw/11B/LCH

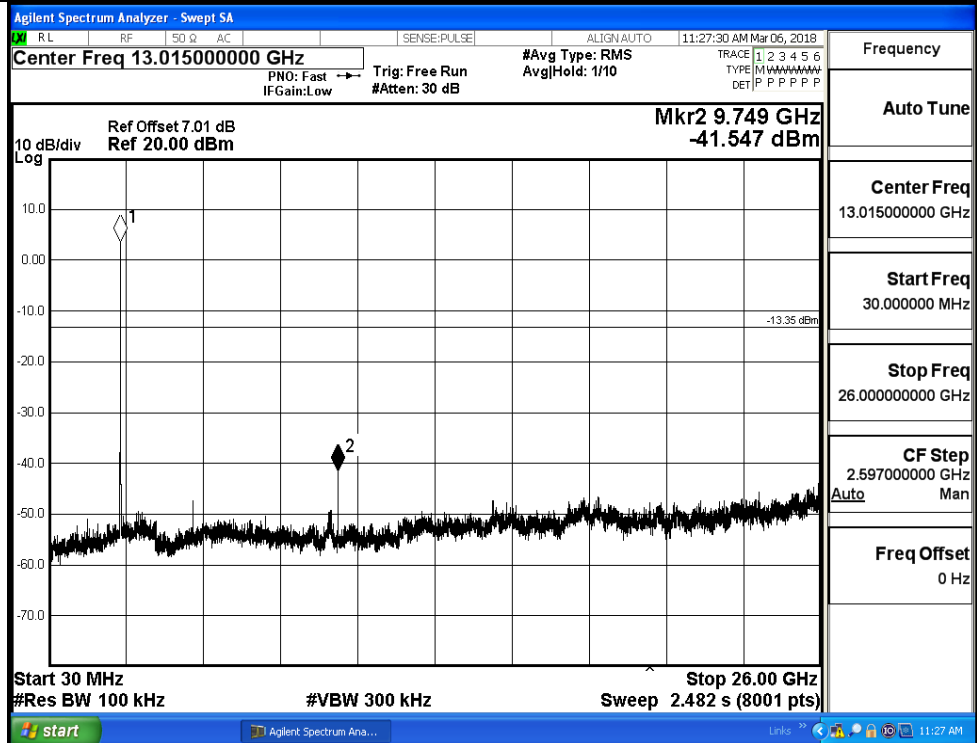


11B MCH Graphs

Pref/11B/MCH

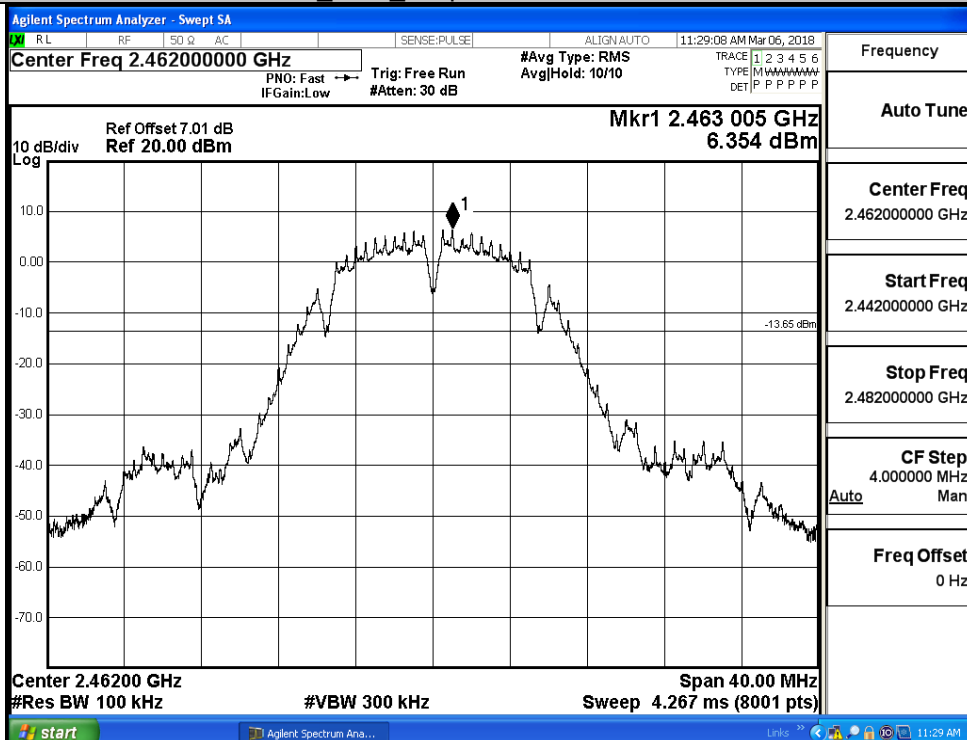


Puw/11B/MCH

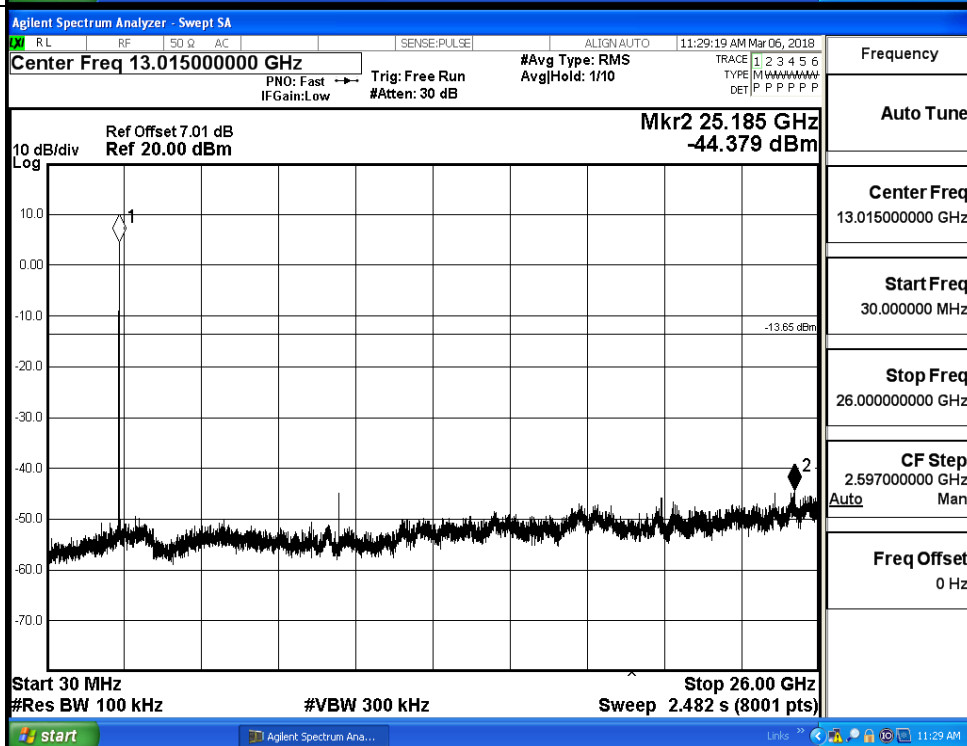


11B HCH Graphs

Pref/11B/HCH

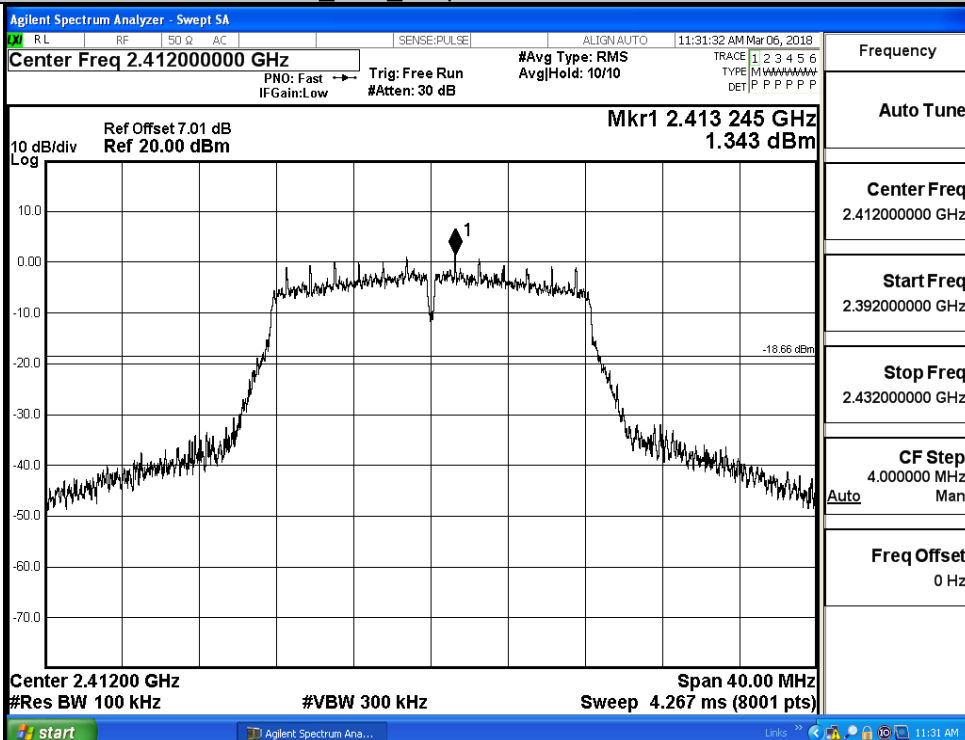


Puw/11B/HCH

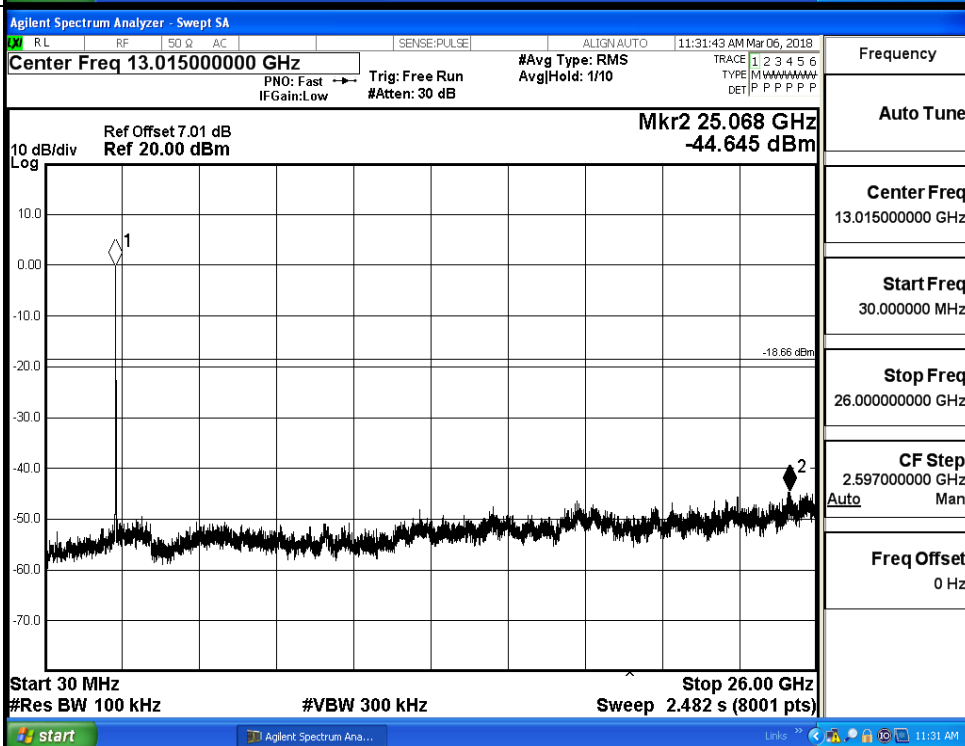


11G LCH Graphs

Pref/11G/LCH

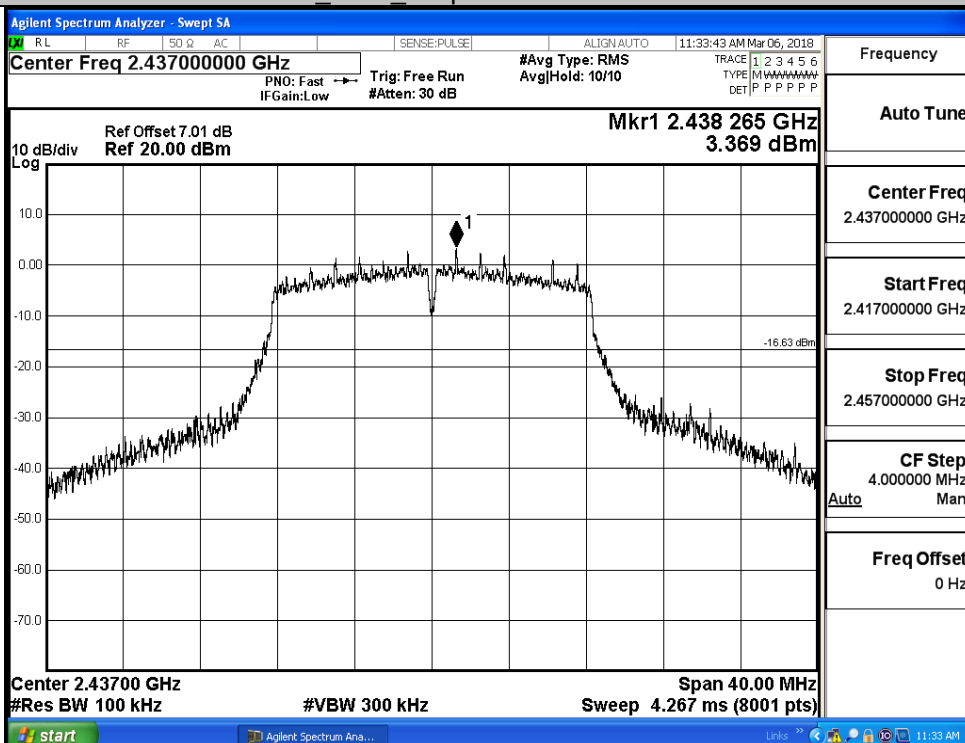


Puw/11G/LCH

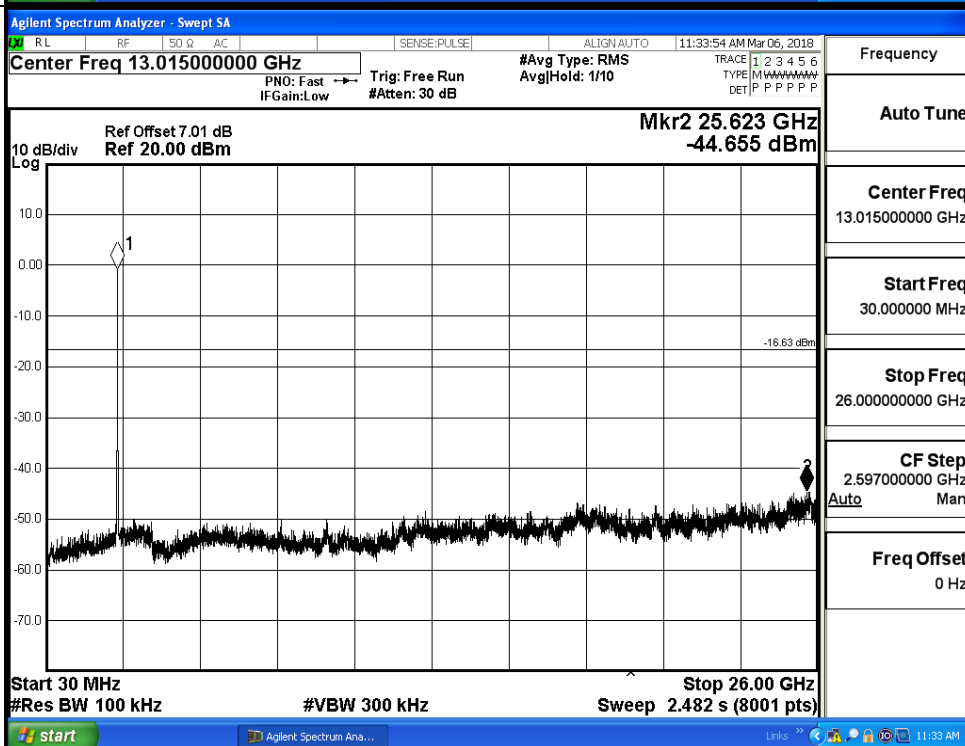


11G MCH Graphs

Pref/11G/MCH

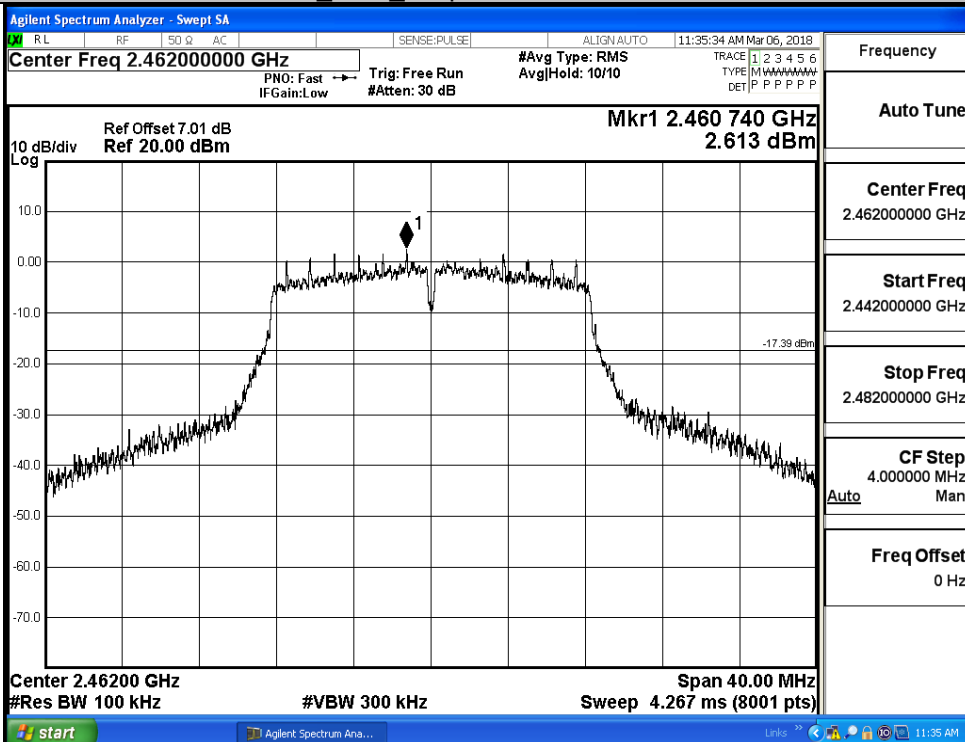


Puw/11G/MCH

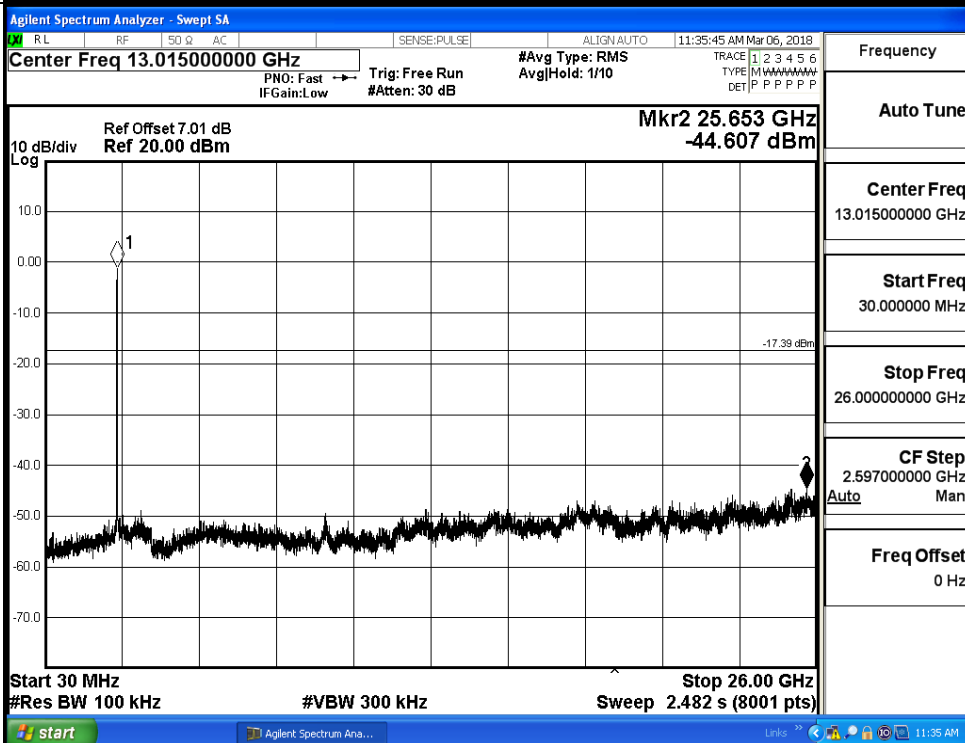


11G HCH Graphs

Pref/11G/HCH

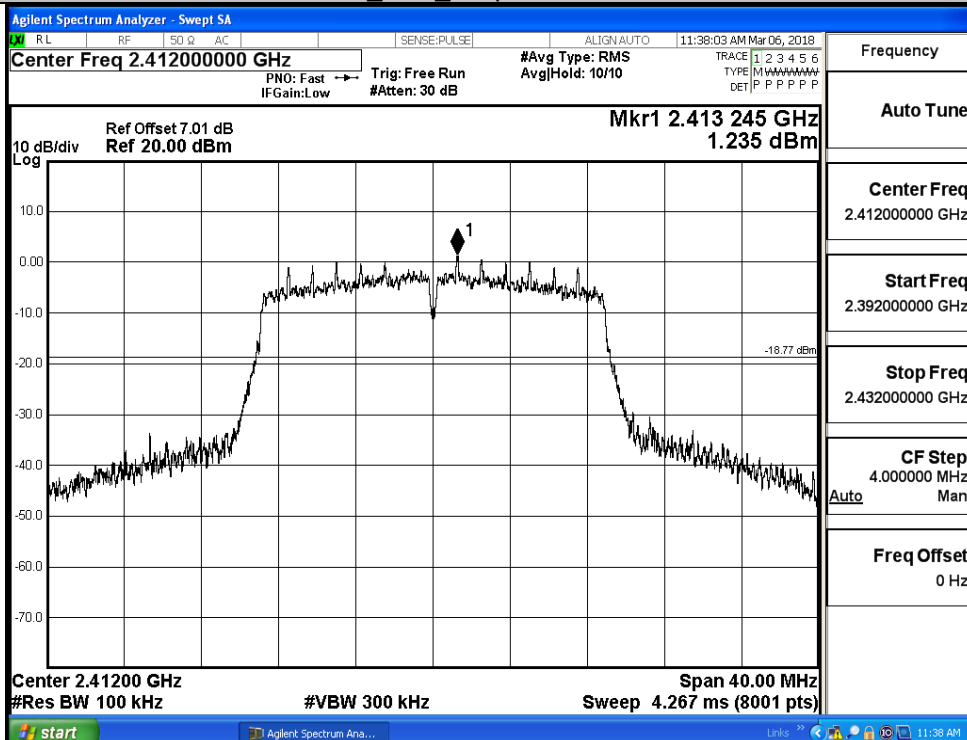


Puw/11G/HCH

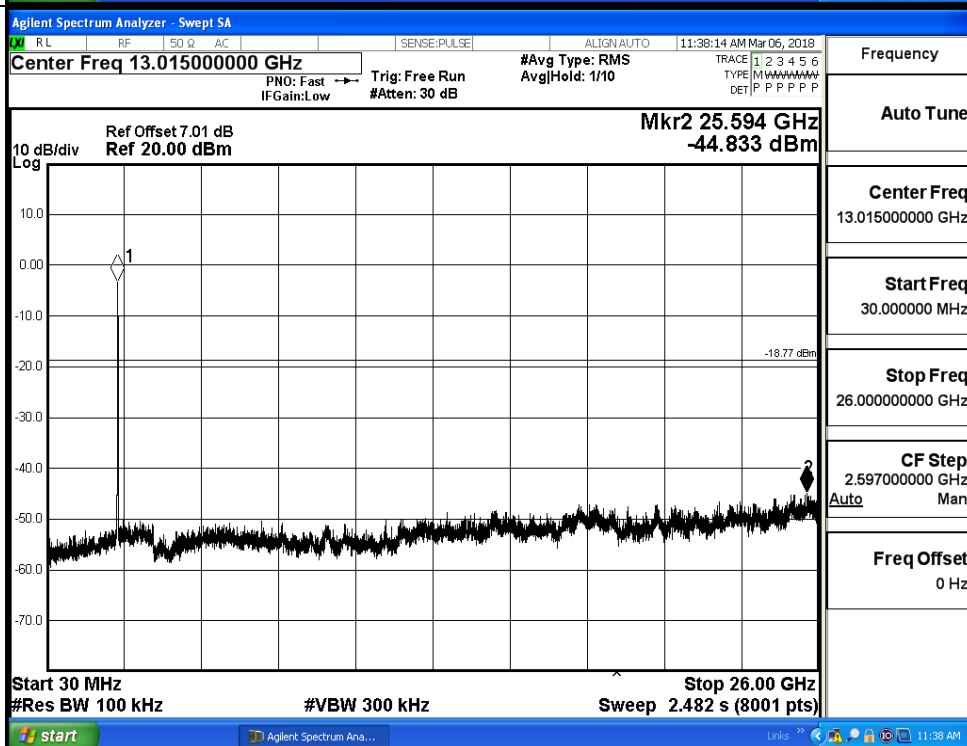


11N20SISO LCH Graphs

Pref/11N20SIS
O/LCH

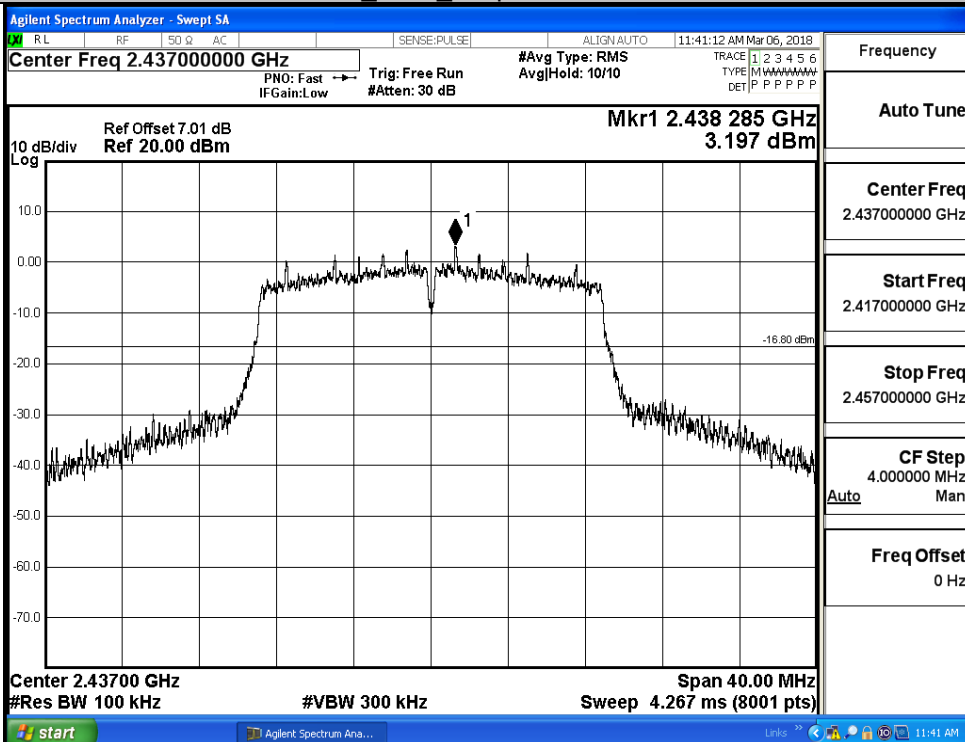


Puw/11N20
SISO/LCH

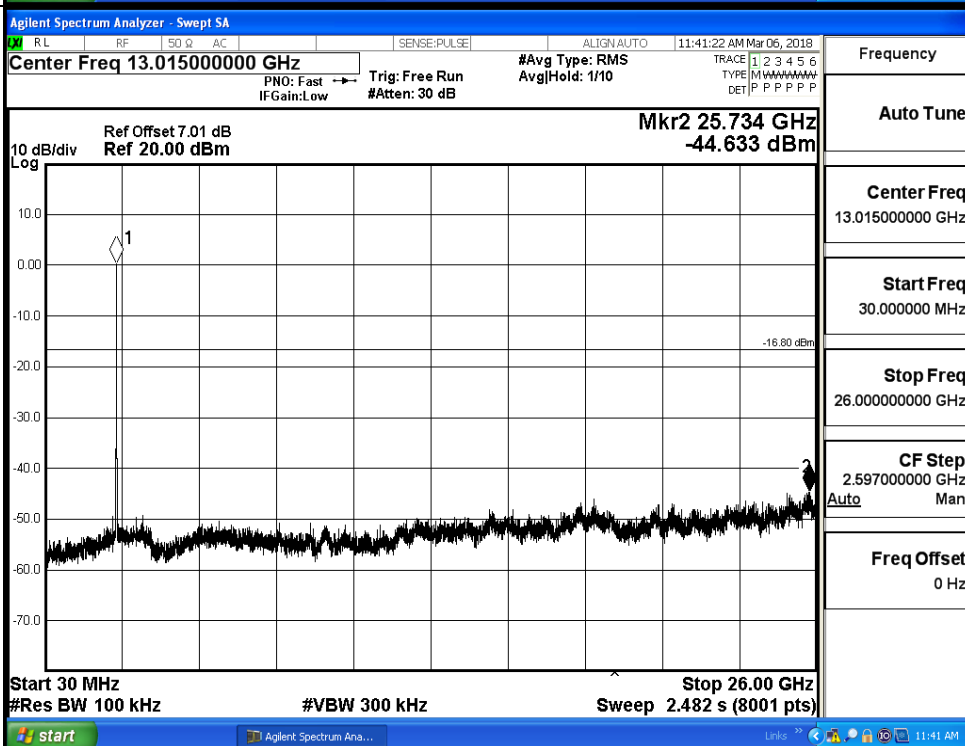


11N20SISO MCH Graphs

Pref/11N20
SISO/MCH

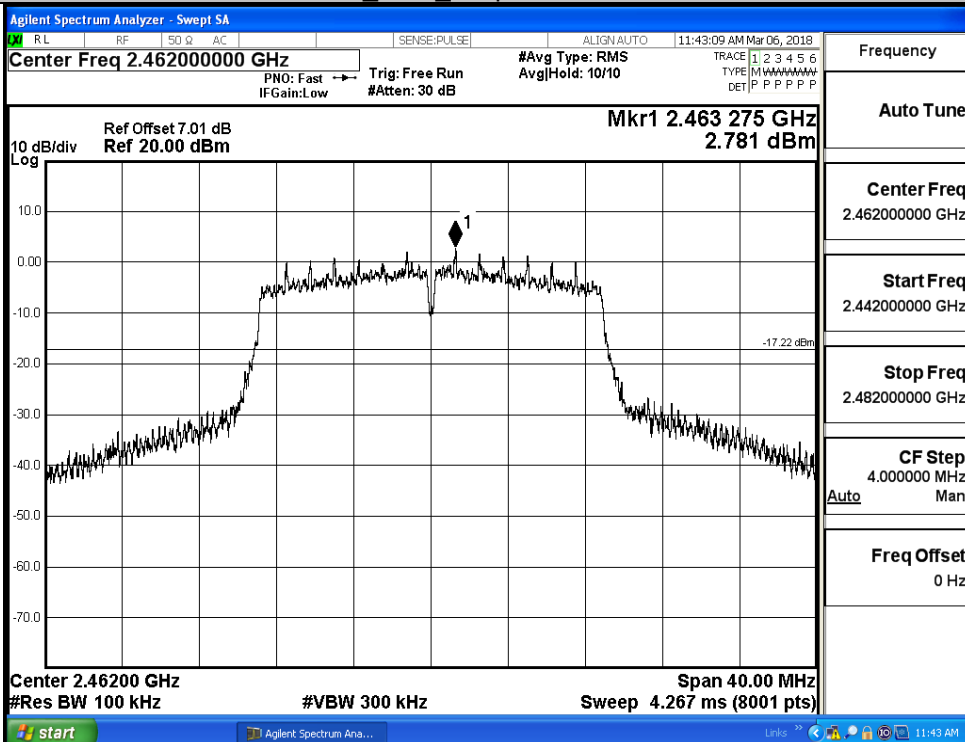


Puw/11N20
SISO/MCH

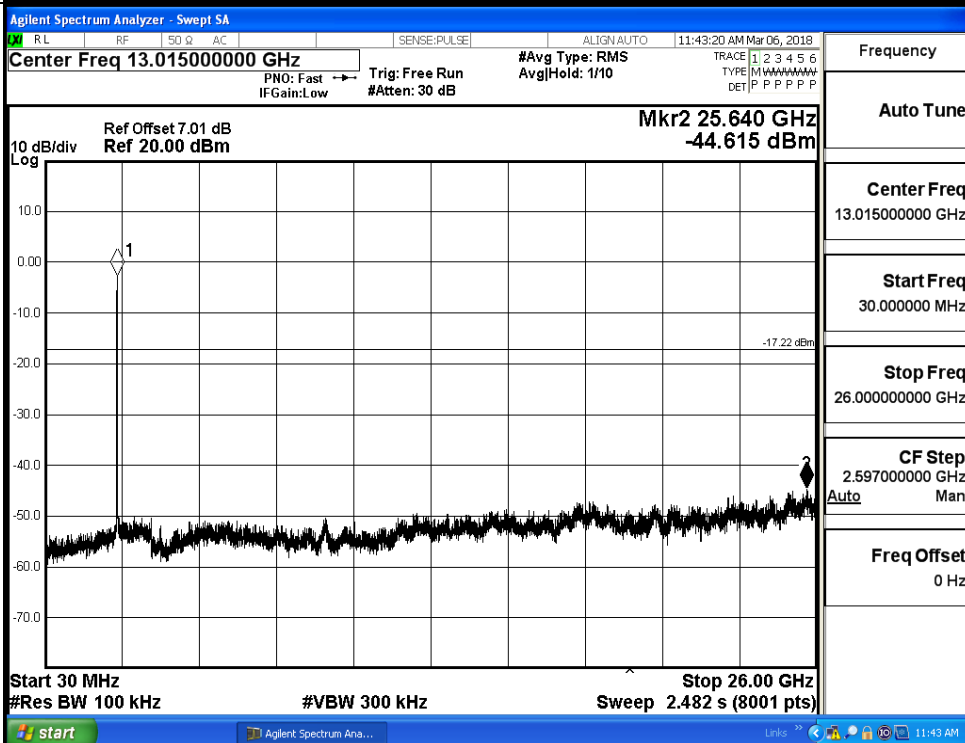


11N20SISO HCH Graphs

Pref/11N20
SISO/HCH

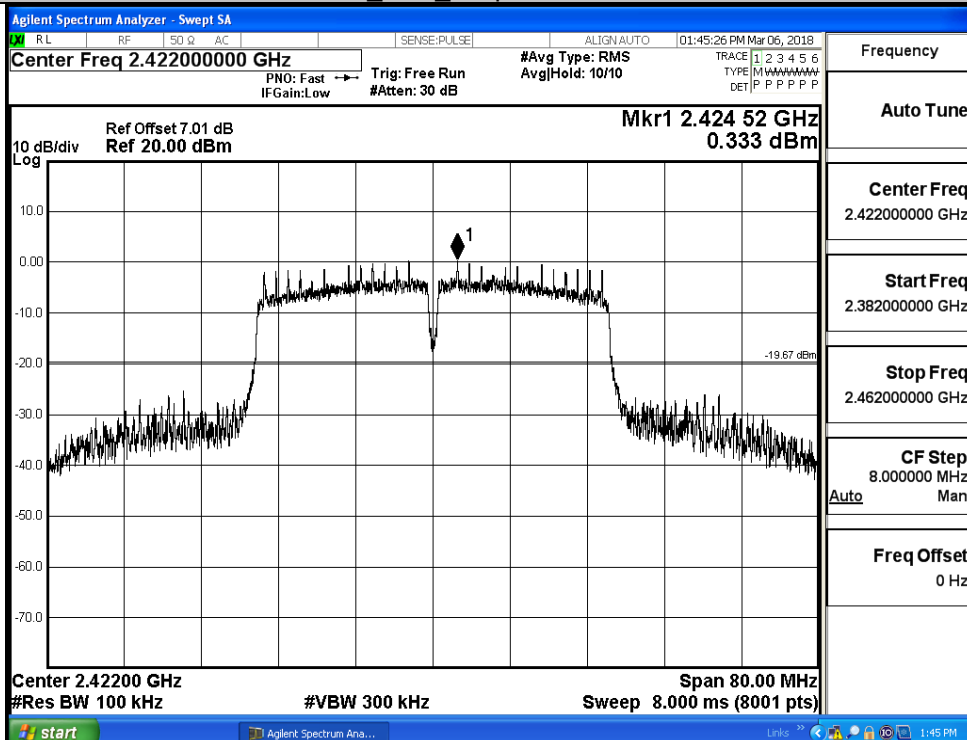


Puw/11N20
SISO/HCH

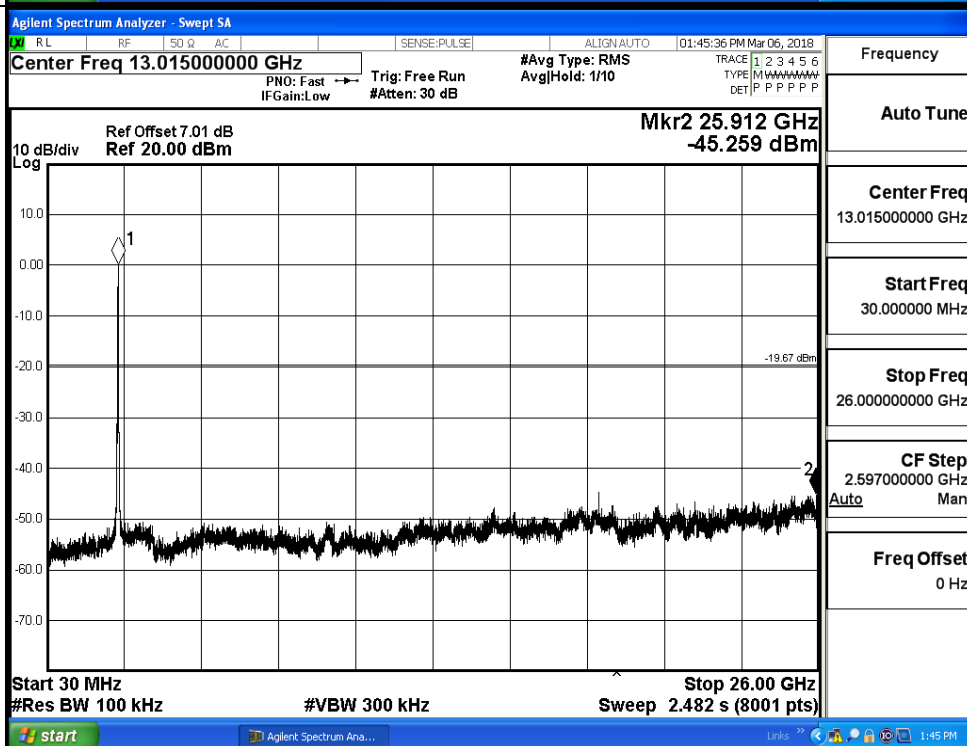


11N40SISO LCH Graphs

Pref/11N40
SISO/LCH

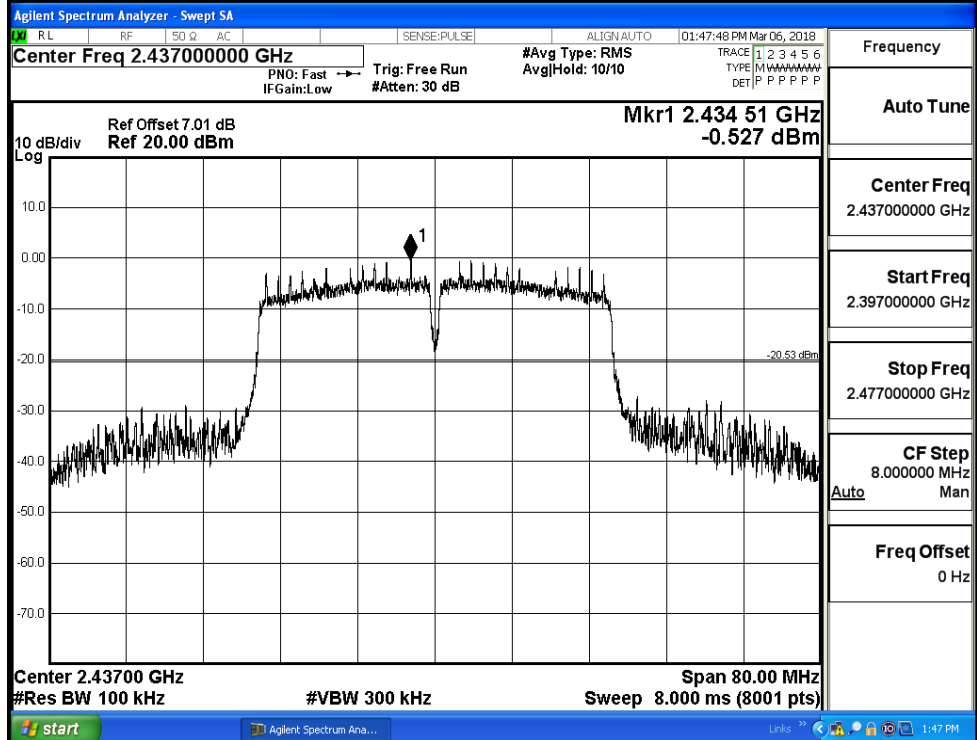


Puw/11N40
SISO/LCH

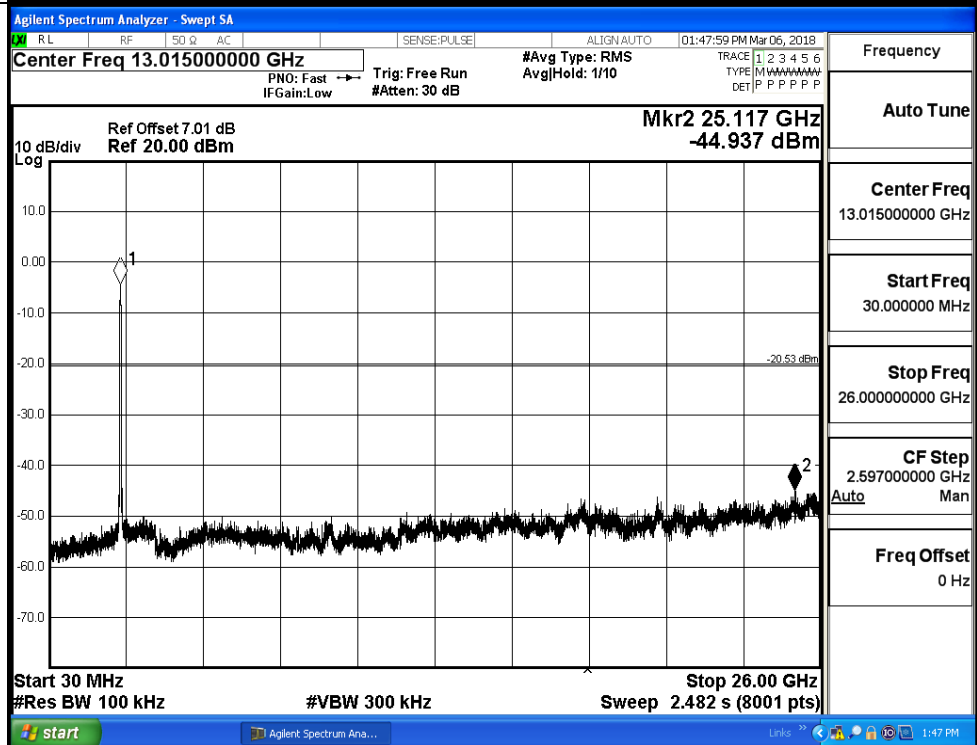


11N40SISO MCH_Graphs

Pref/11N40
SISO/MCH

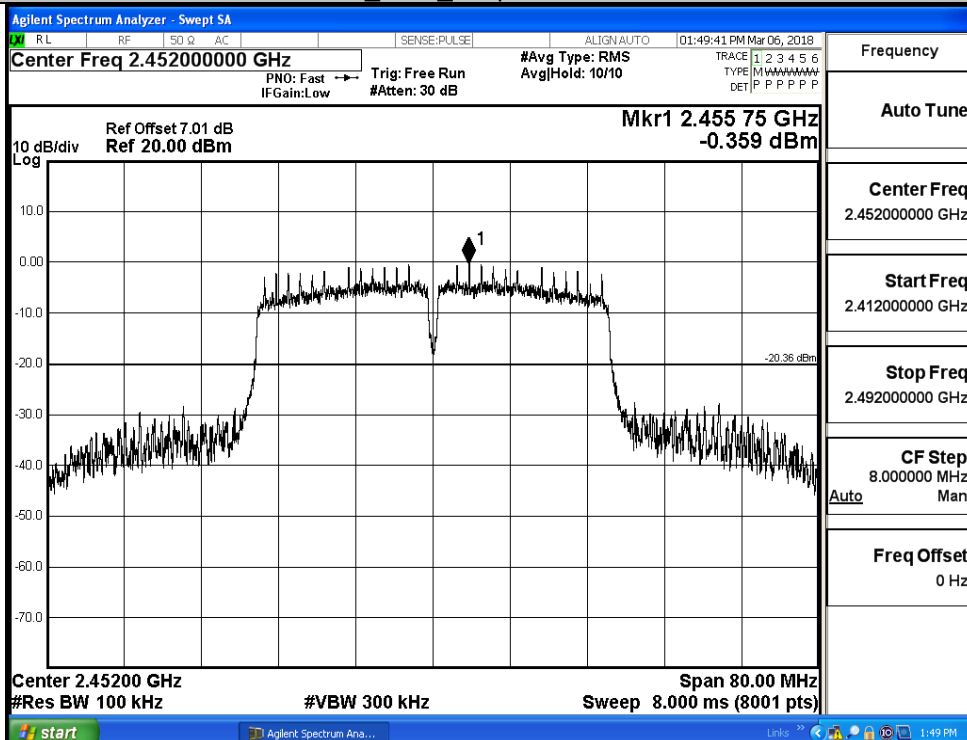


Puw/11N40
SISO/MCH

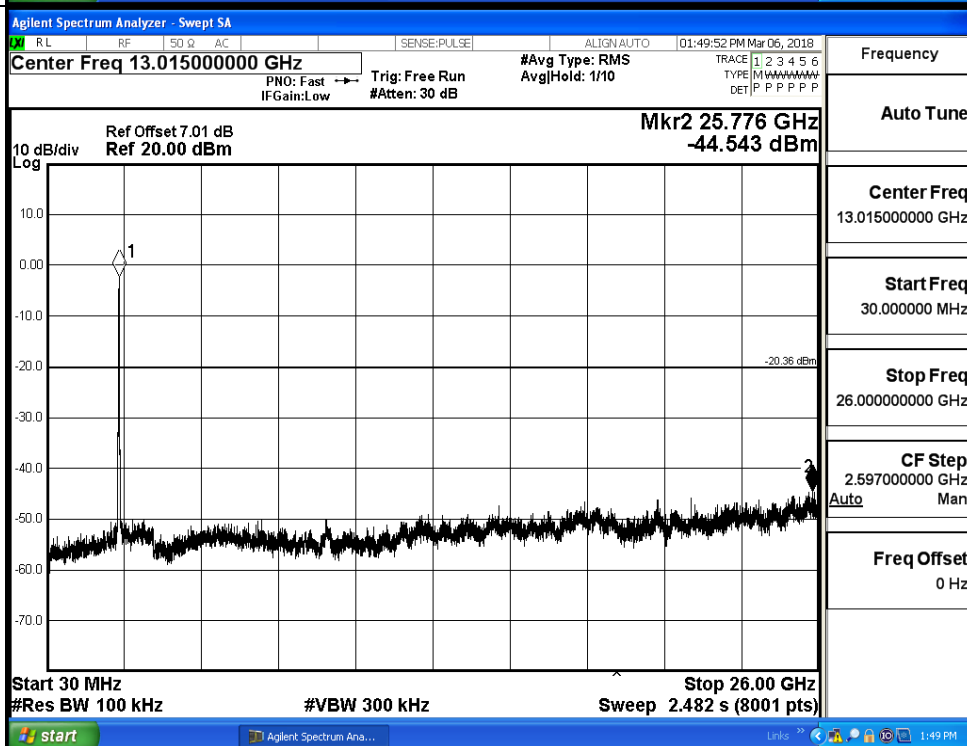


11N40SISO HCH Graphs

Pref/11N40
SISO/HCH



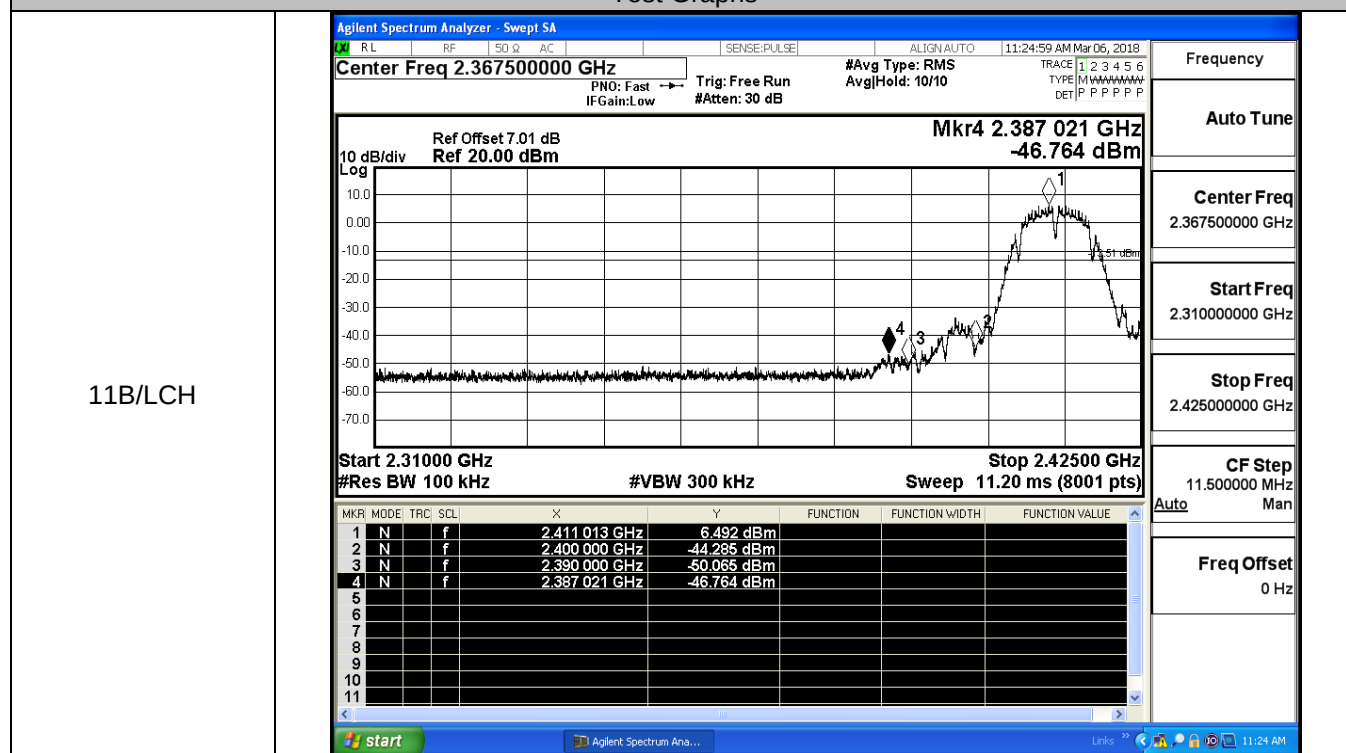
Puw/11N40
SISO/HCH



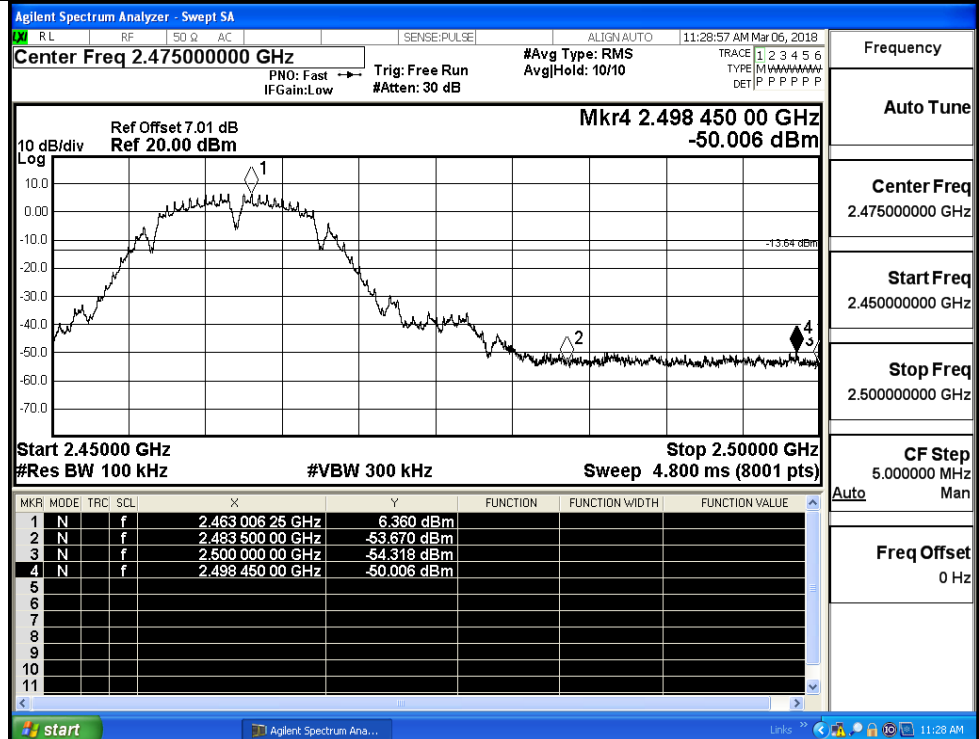
B.4 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	6.492	-46.764	-13.51	PASS
	HCH	6.360	-50.006	-13.64	PASS
11G	LCH	0.767	-46.097	-19.23	PASS
	HCH	3.030	-42.930	-16.97	PASS
11N20SISO	LCH	1.671	-45.705	-18.33	PASS
	HCH	2.024	-41.697	-17.98	PASS
11N40SISO	LCH	0.349	-30.482	-19.65	PASS
	HCH	-0.399	-31.118	-20.4	PASS

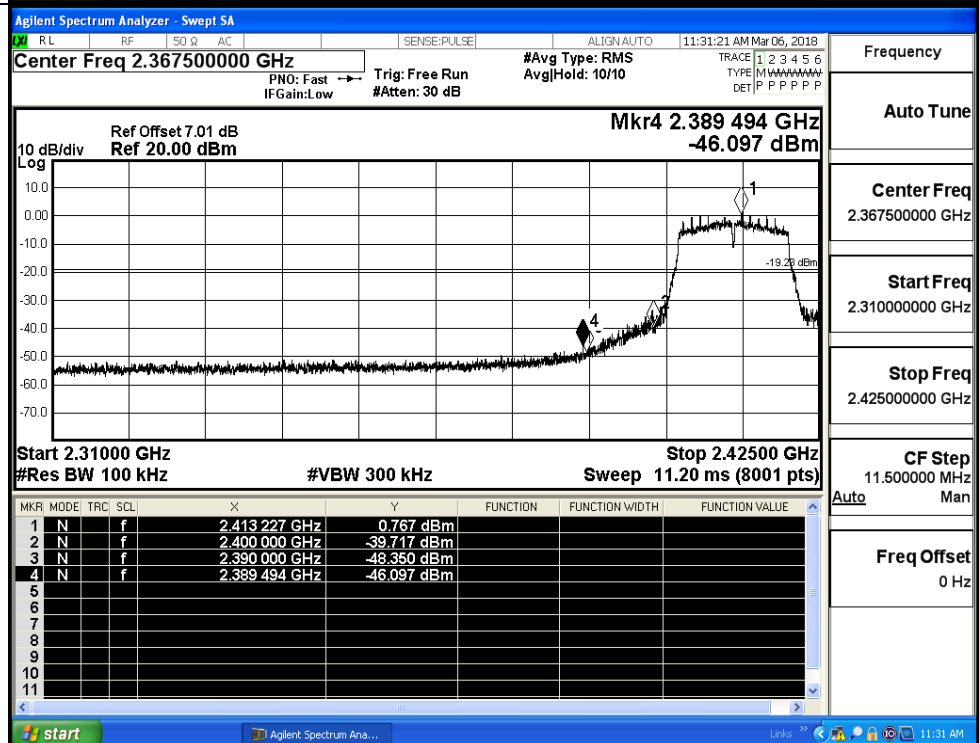
Test Graphs



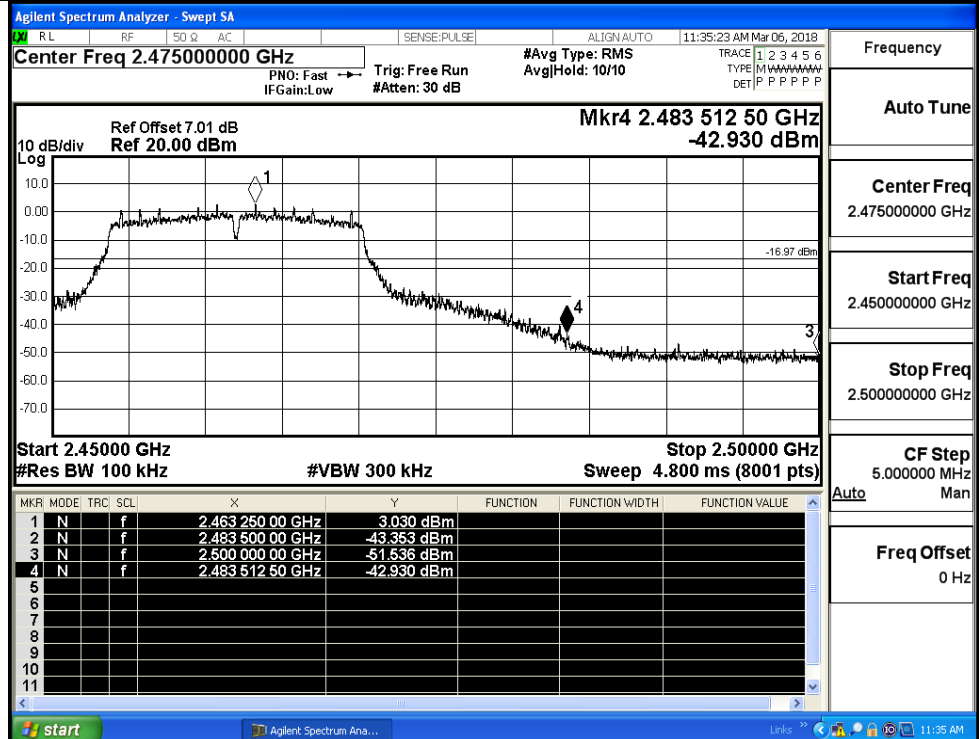
11B/HCH



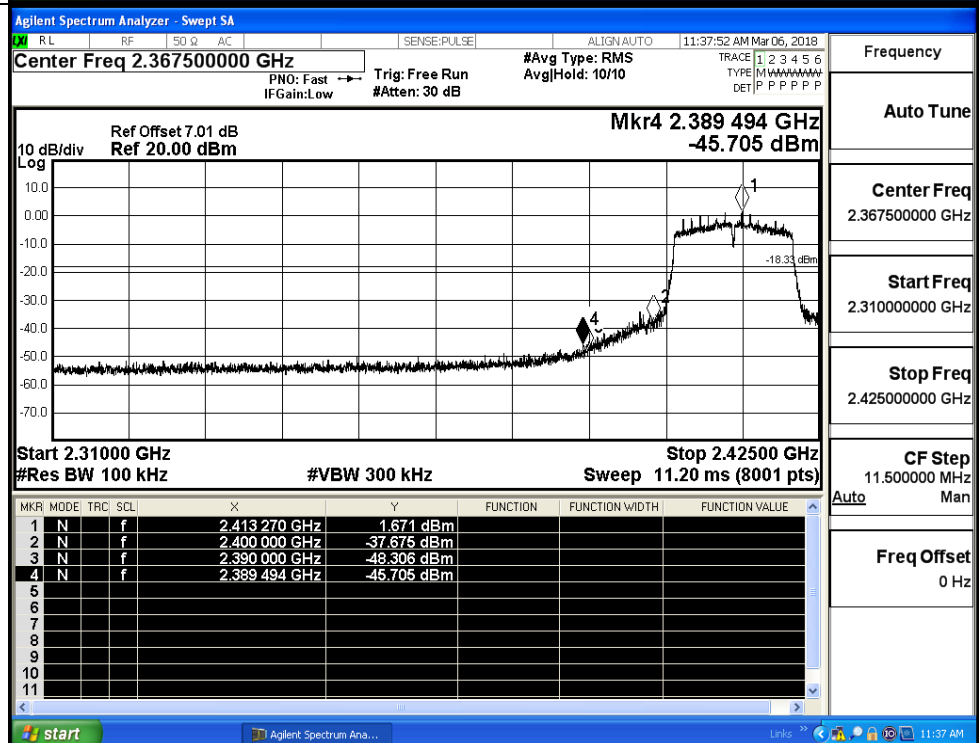
11G/LCH



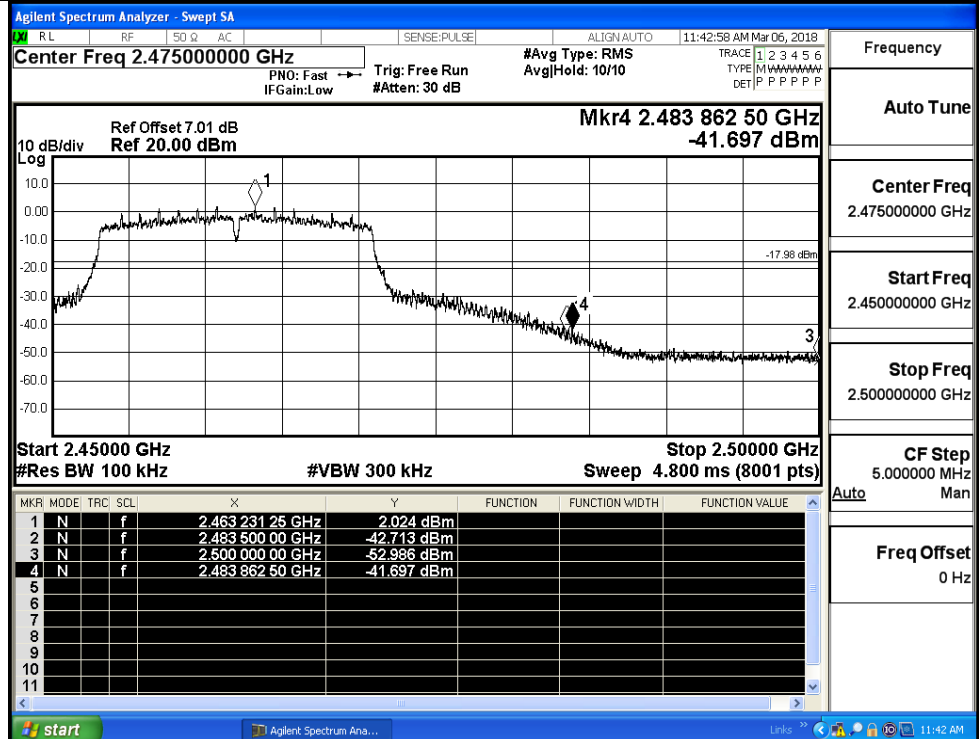
11G/HCH



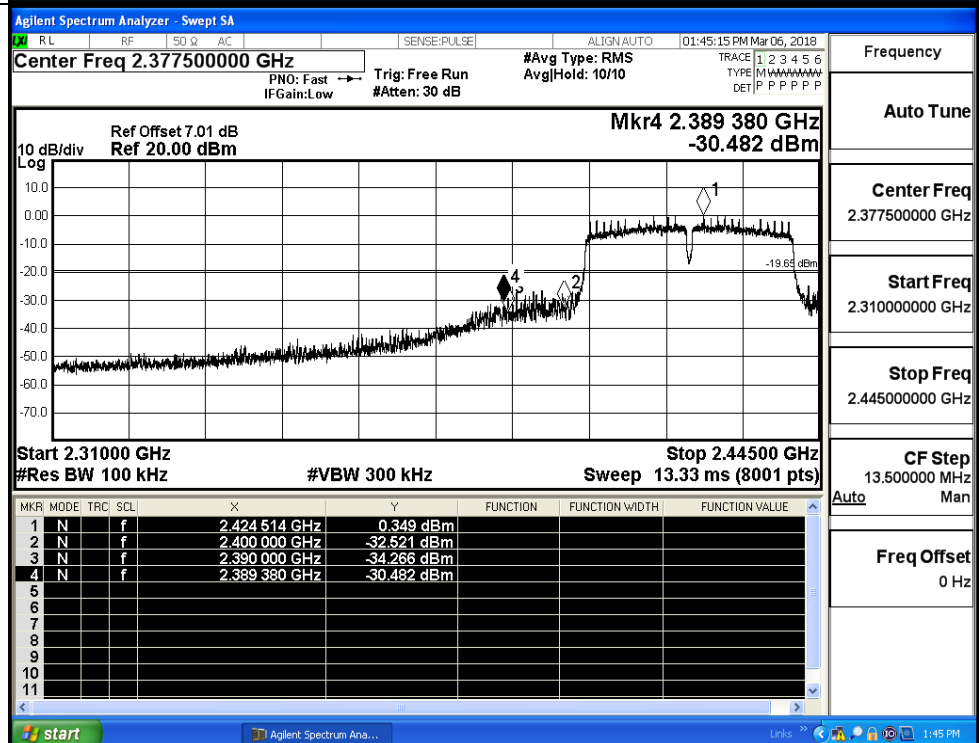
11N20SISO/LCH



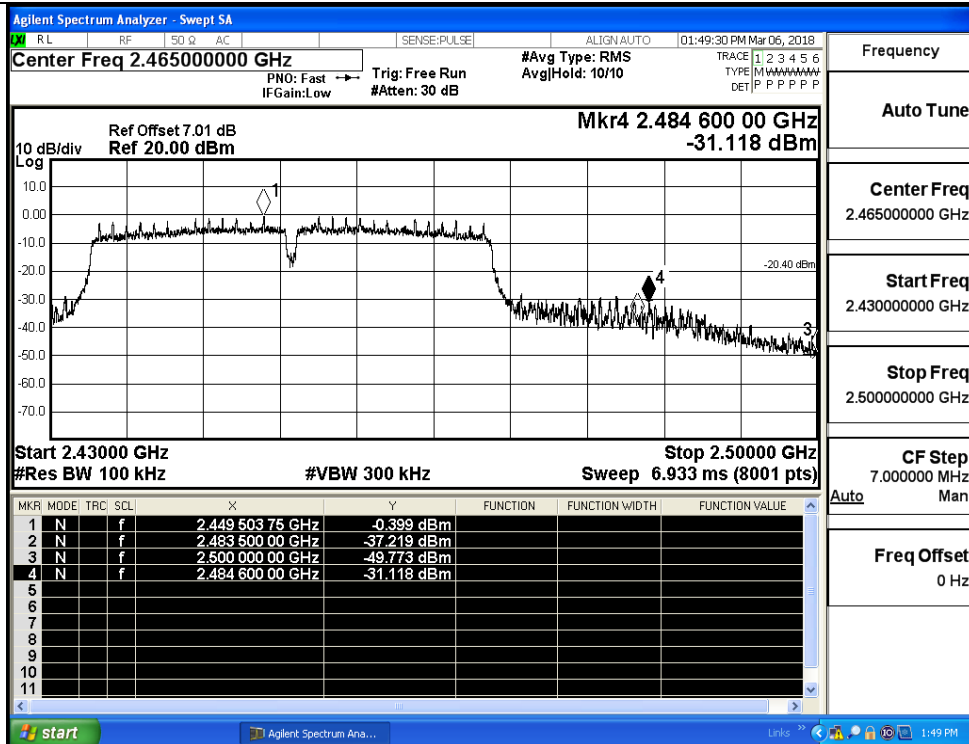
11N20SISO/HCH



11N40SISO/LCH

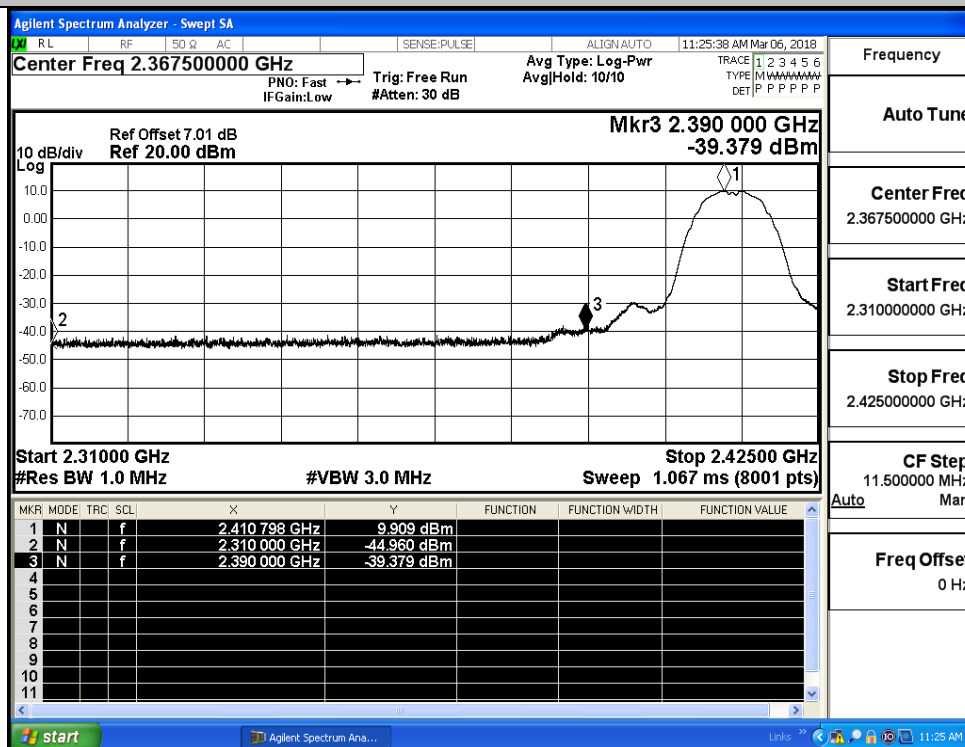


11N40SISO/HCH

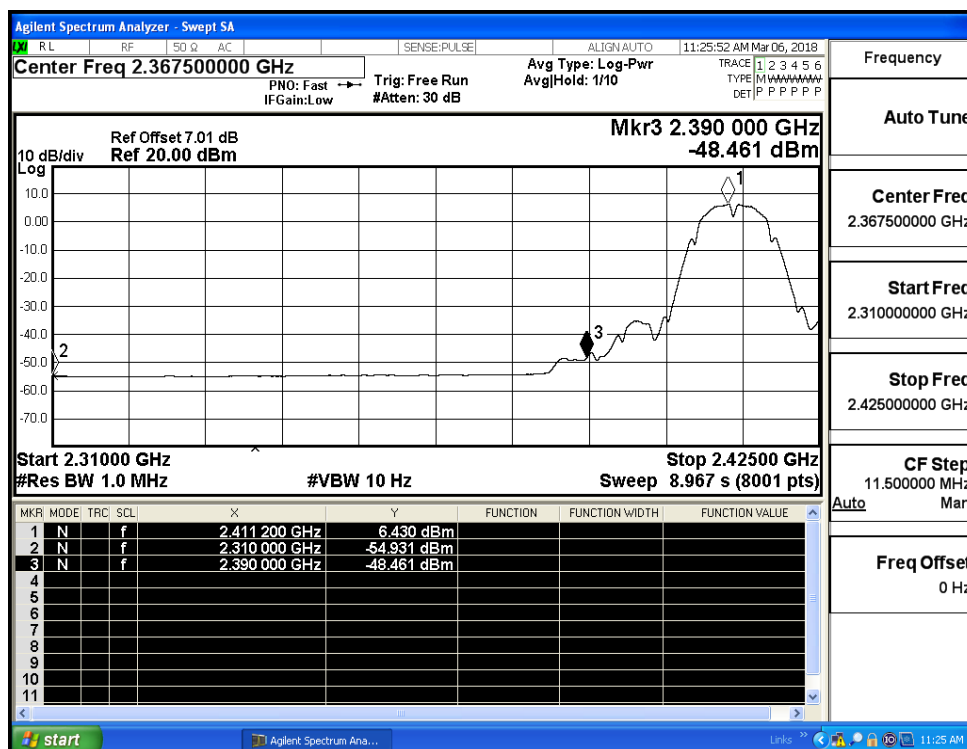


B.5 Restrict-band band-edge measurements

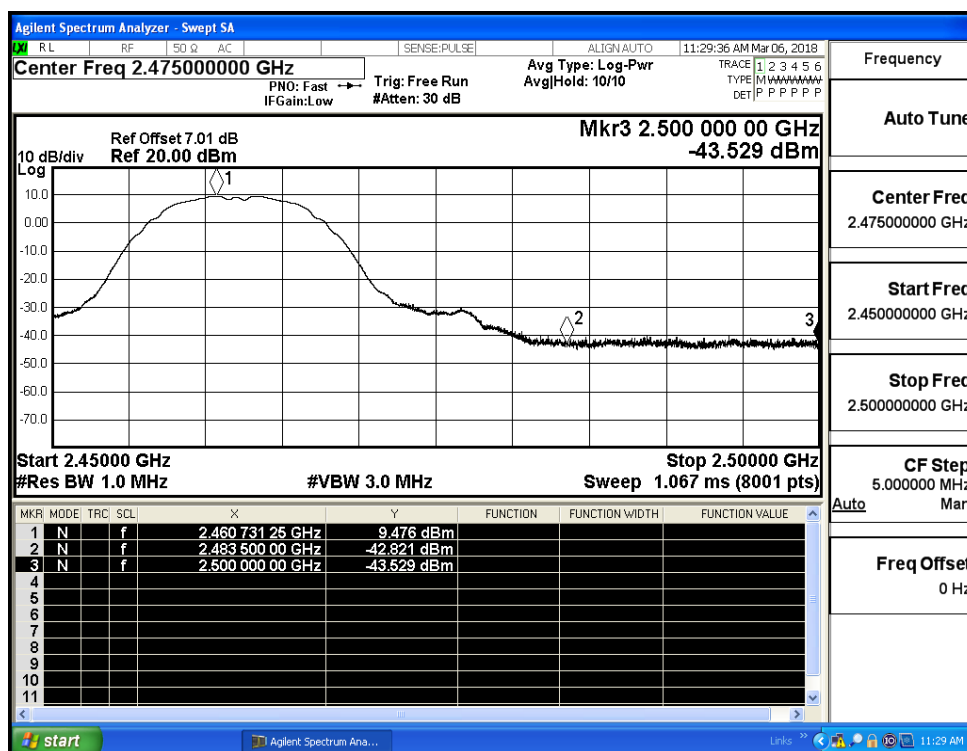
Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



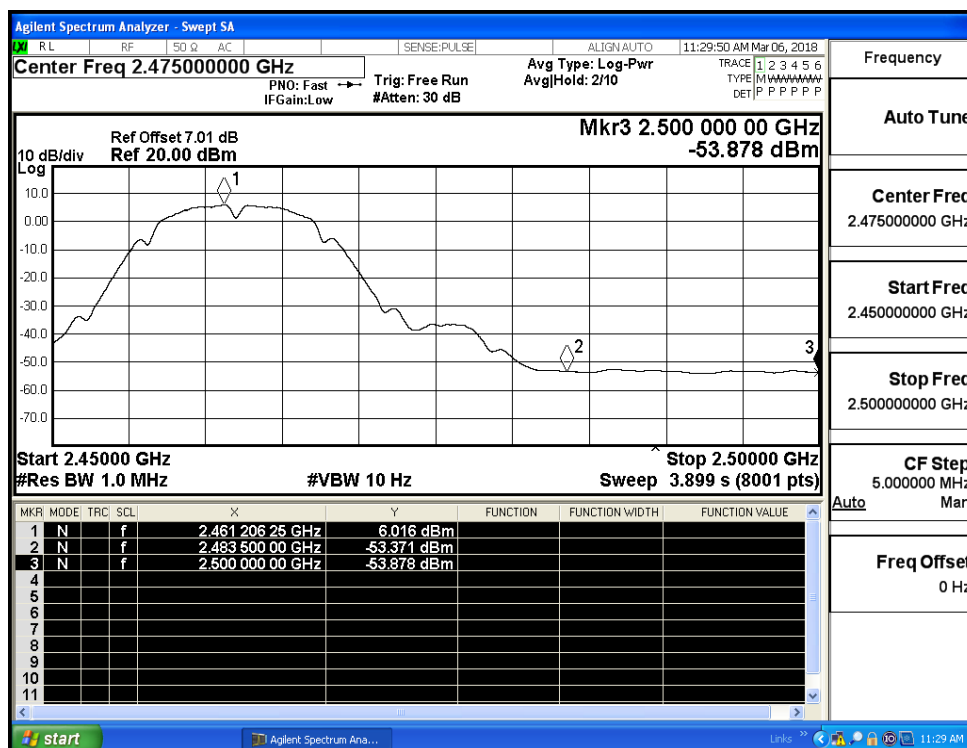
Restrict-band band-edge measurements_11B_2412_Ant1_AV



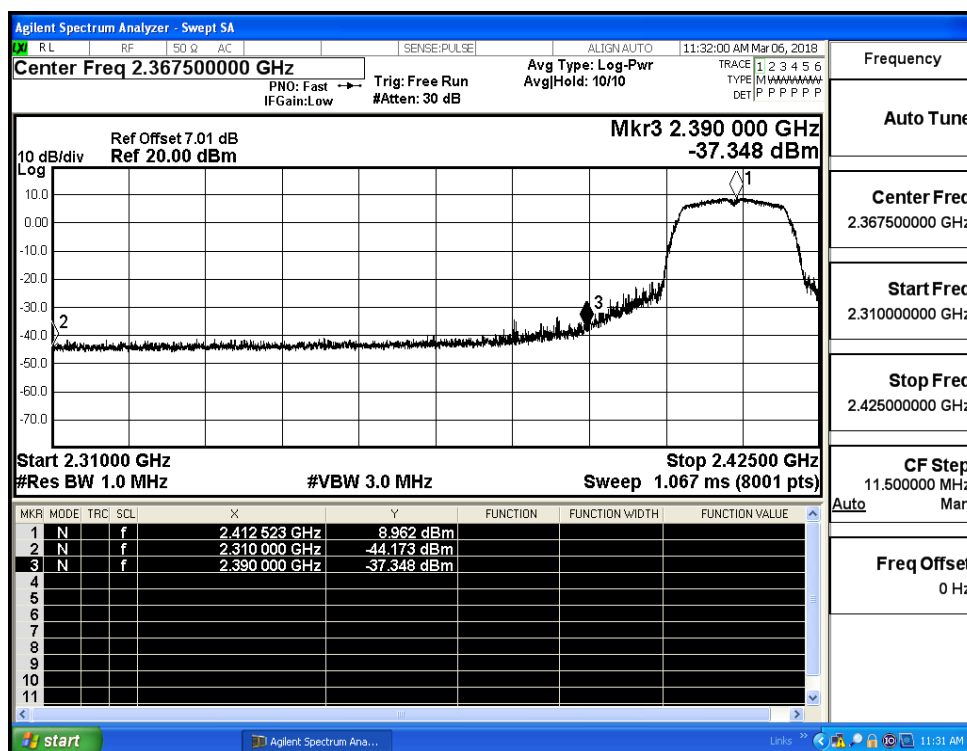
Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



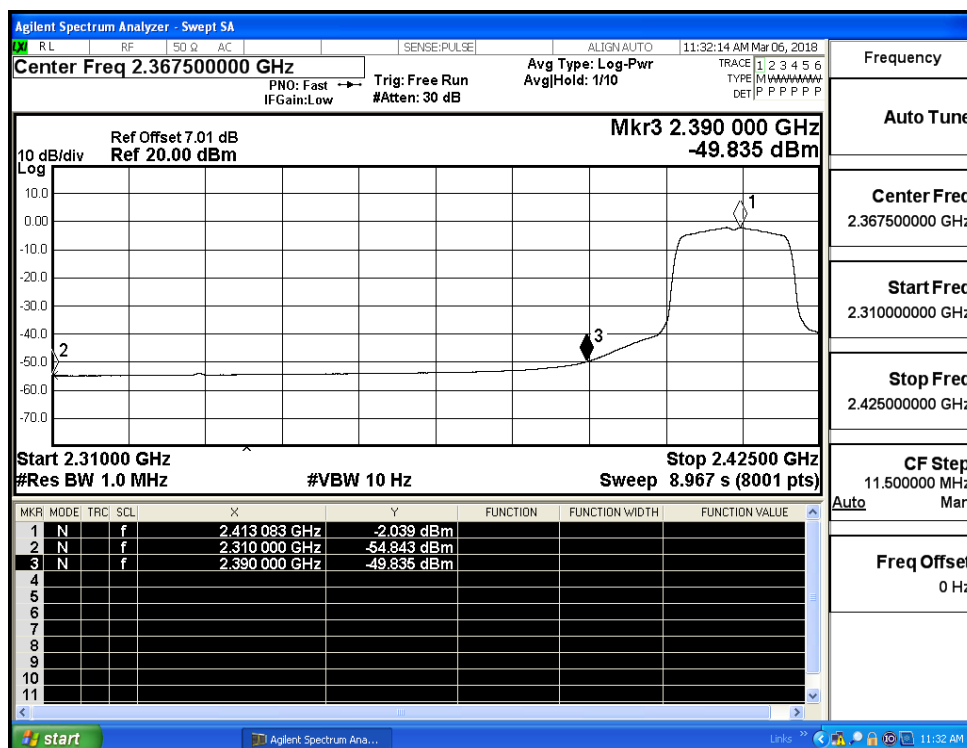
Restrict-band band-edge measurements_11B_2462_Ant1_AV



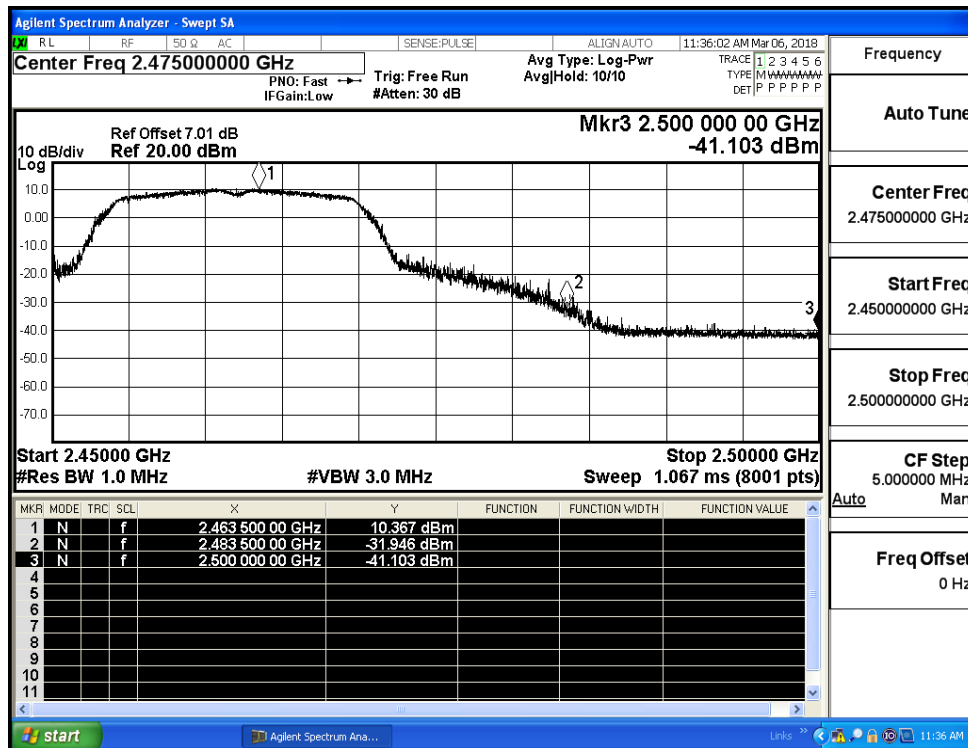
Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



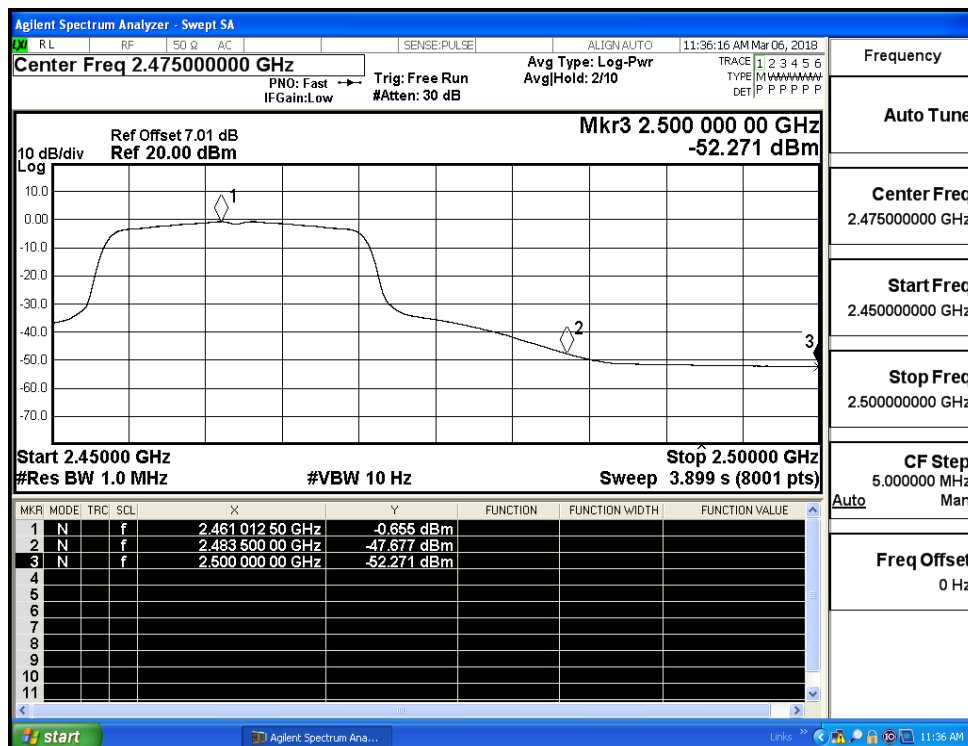
Restrict-band band-edge measurements_11G_2412_Ant1_AV



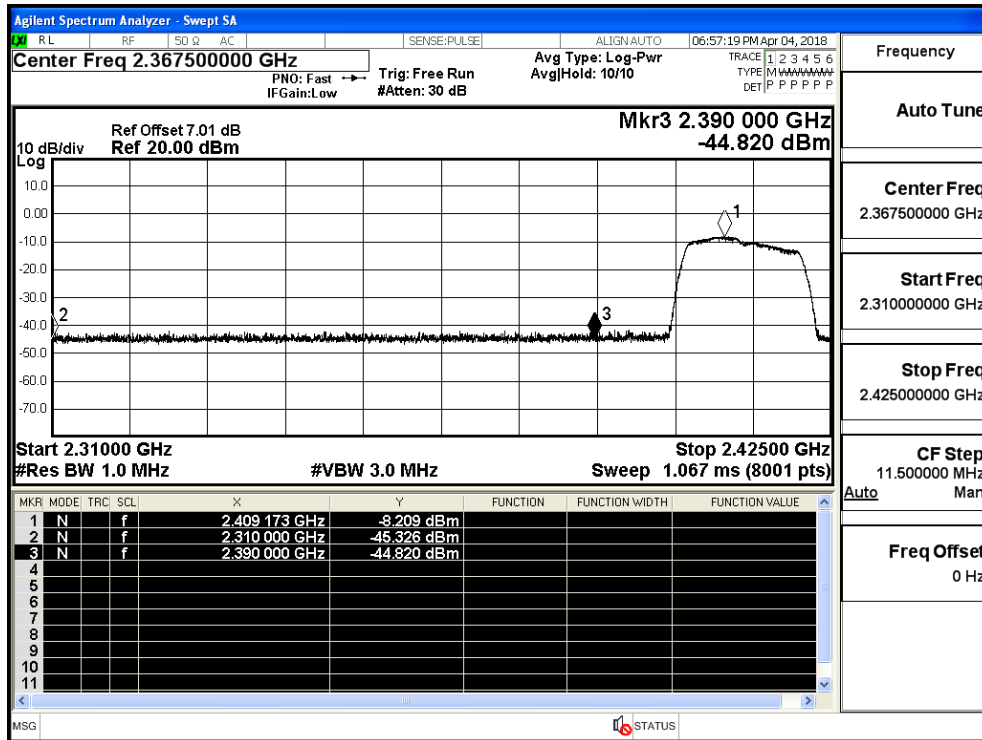
Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



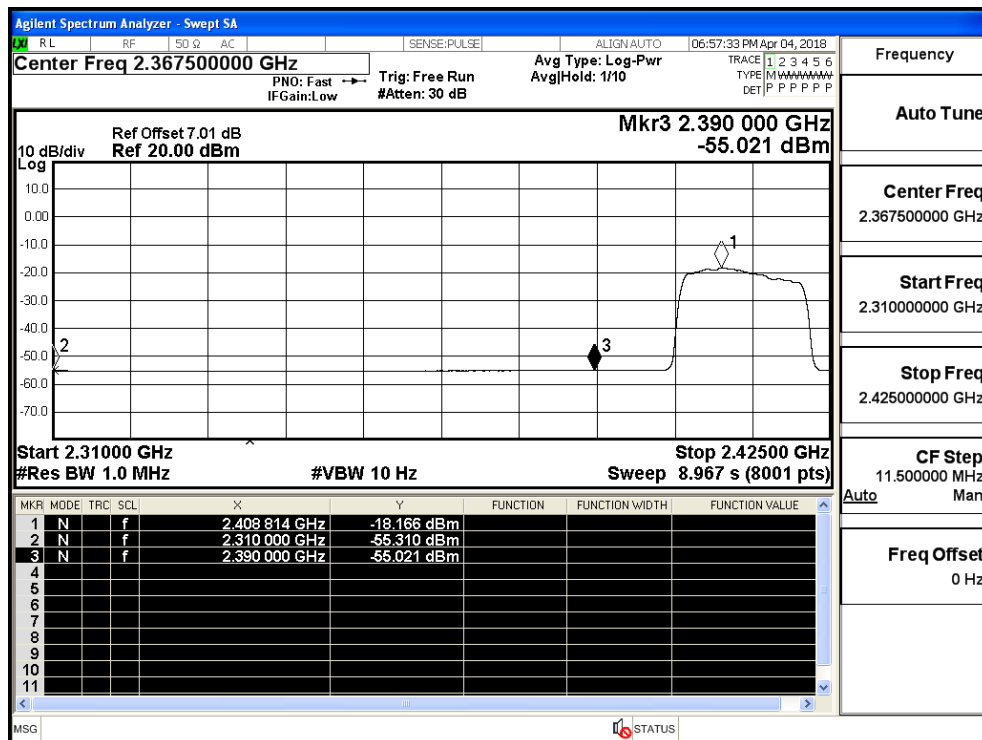
Restrict-band band-edge measurements_11G_2462_Ant1_AV



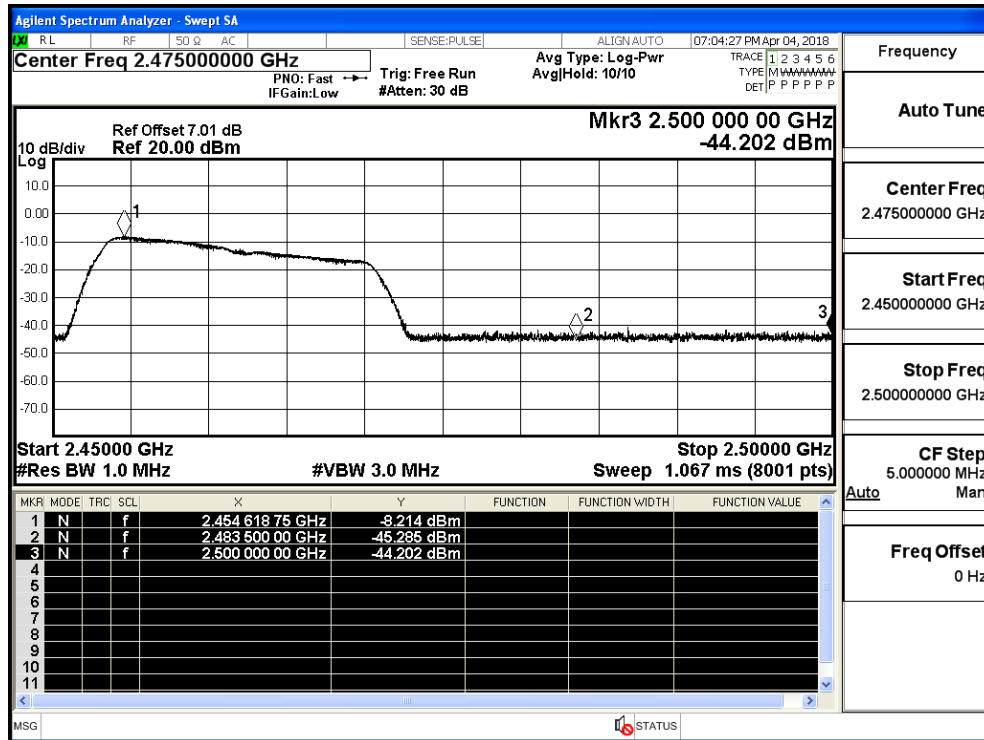
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



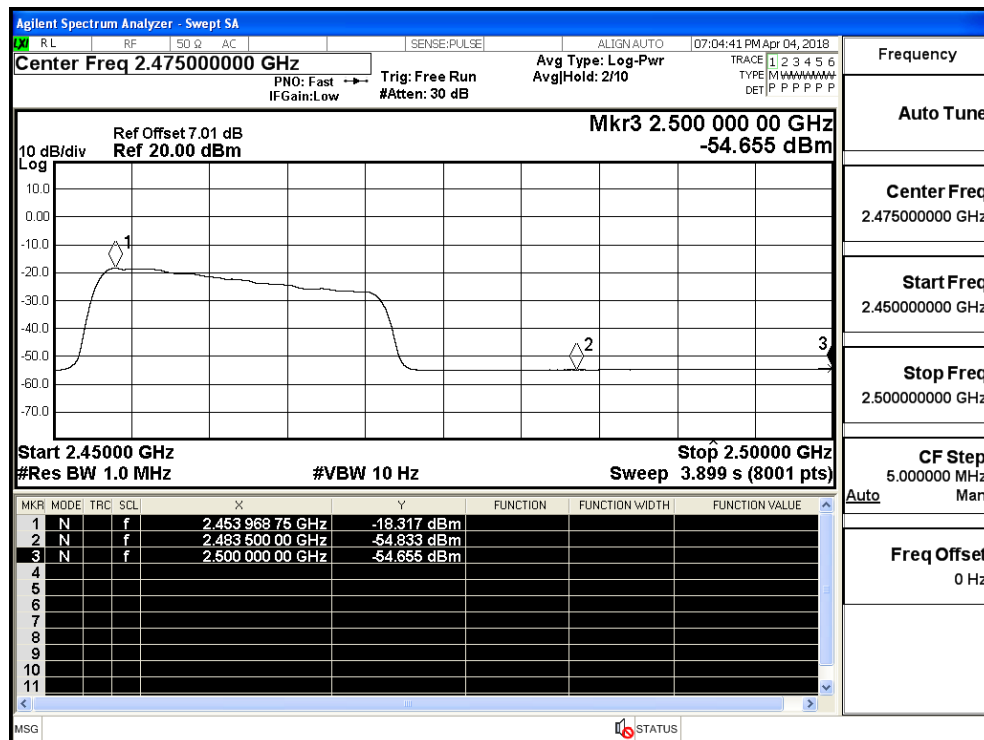
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_AV



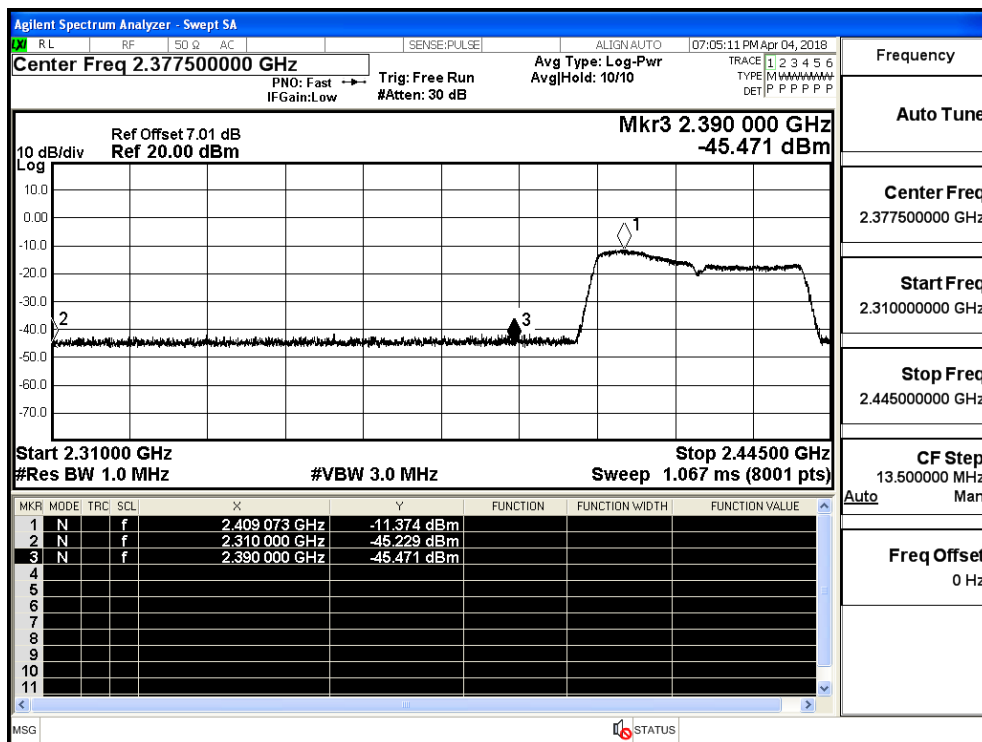
Restrict-band band-edge measurements_11N20SISO_2462_Ant1_PEAK



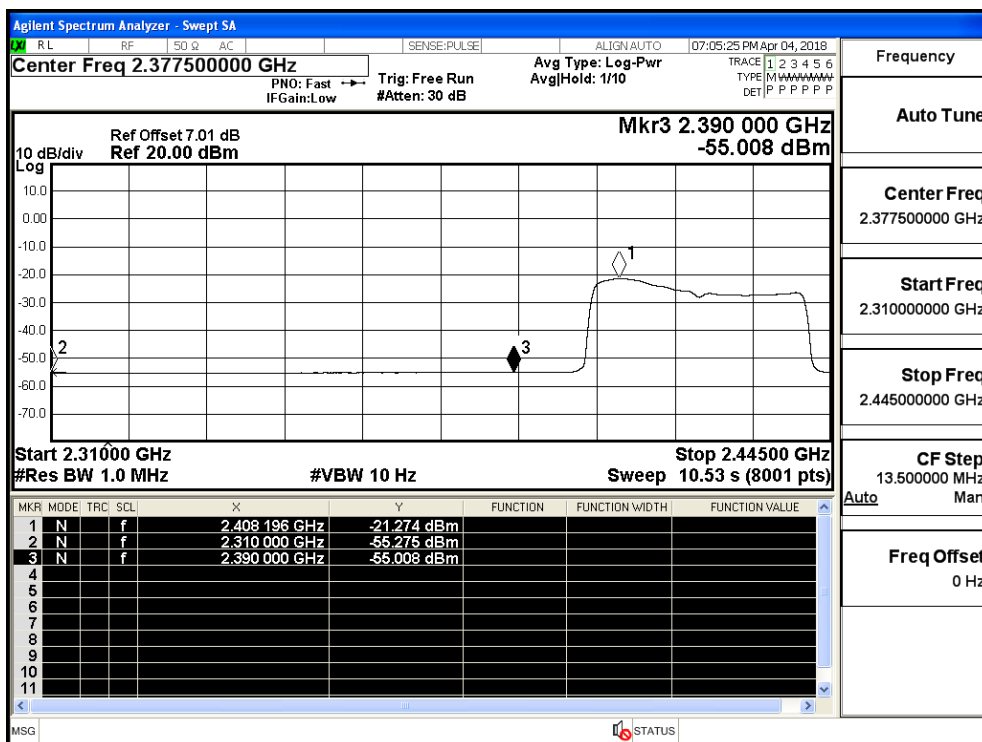
Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV



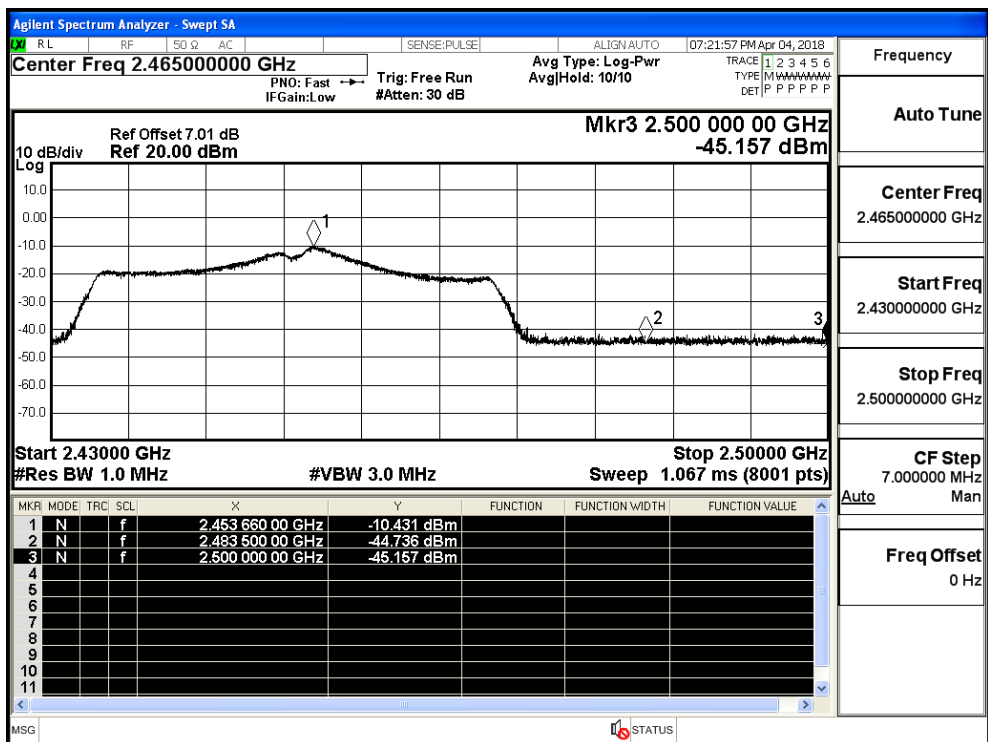
Restrict-band band-edge measurements_11N40SISO_2422_Ant1_PEAK



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

