

Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Fiber Router



Trade Mark: V-SOL

Test Model: V2801RGW

Environmental Conditions

Temperature:	21.6 ° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	WANGCHUANG
Supervised by:	Jayden.Zhuo

A.1 Duty Cycle

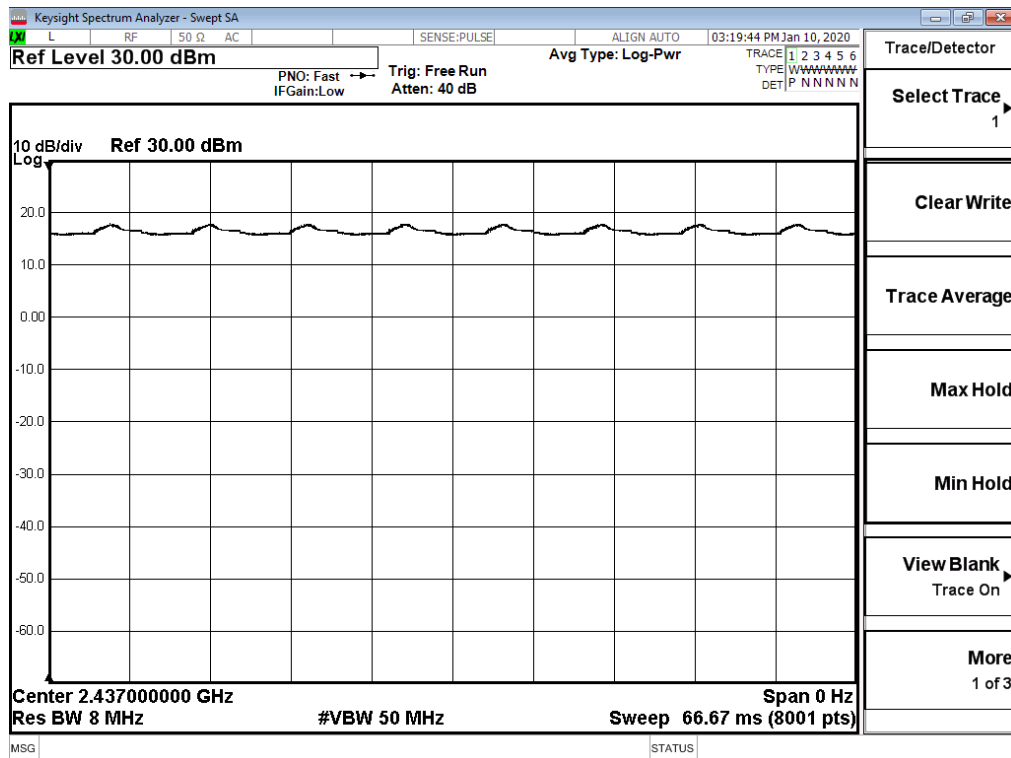
ANT1

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS
11N40SISO	2437	Ant1	100	PASS

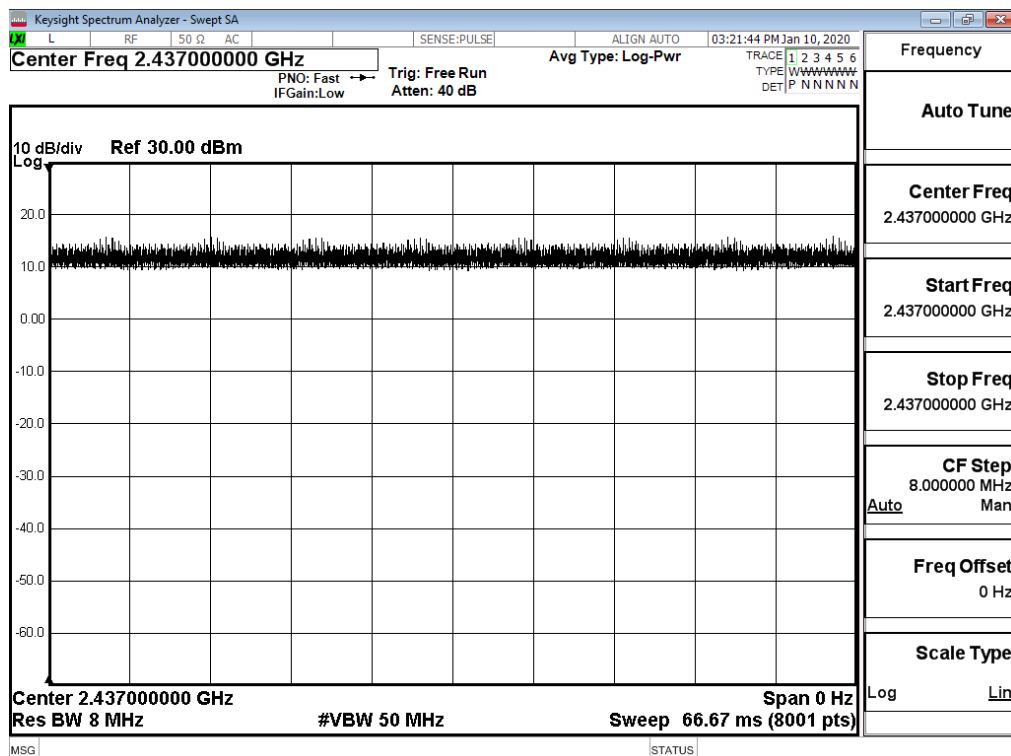
ANT2

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant2	100	PASS
11G	2437	Ant2	100	PASS
11N20SISO	2437	Ant2	100	PASS
11N40SISO	2437	Ant2	100	PASS

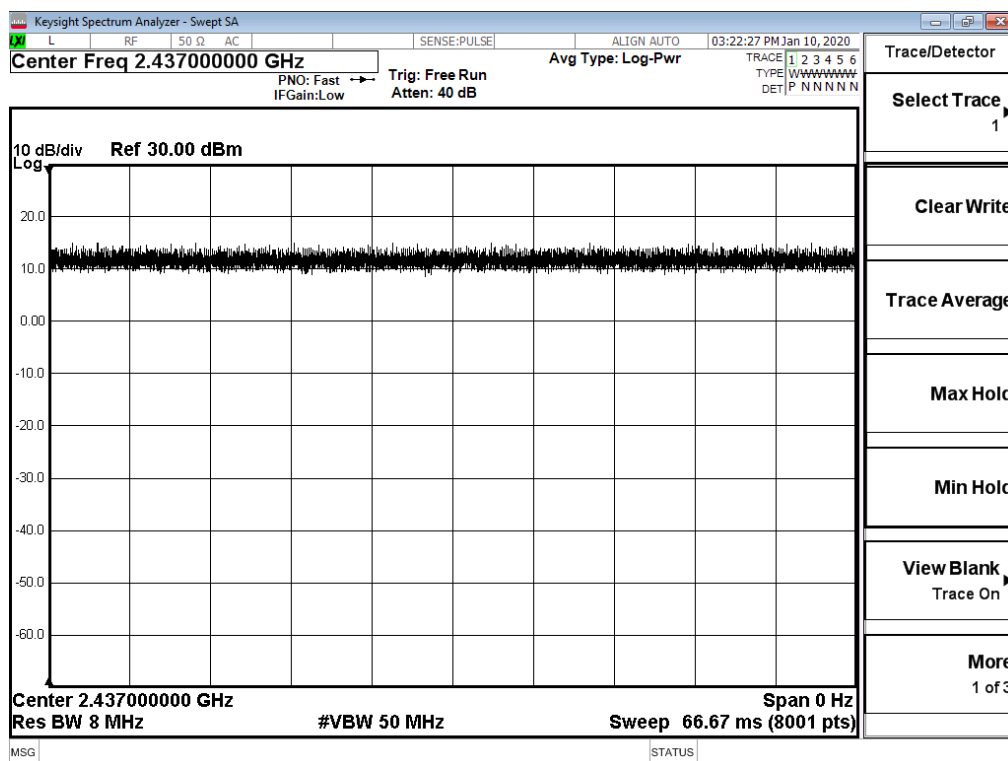
Duty Cycle_11B_2437_Ant1



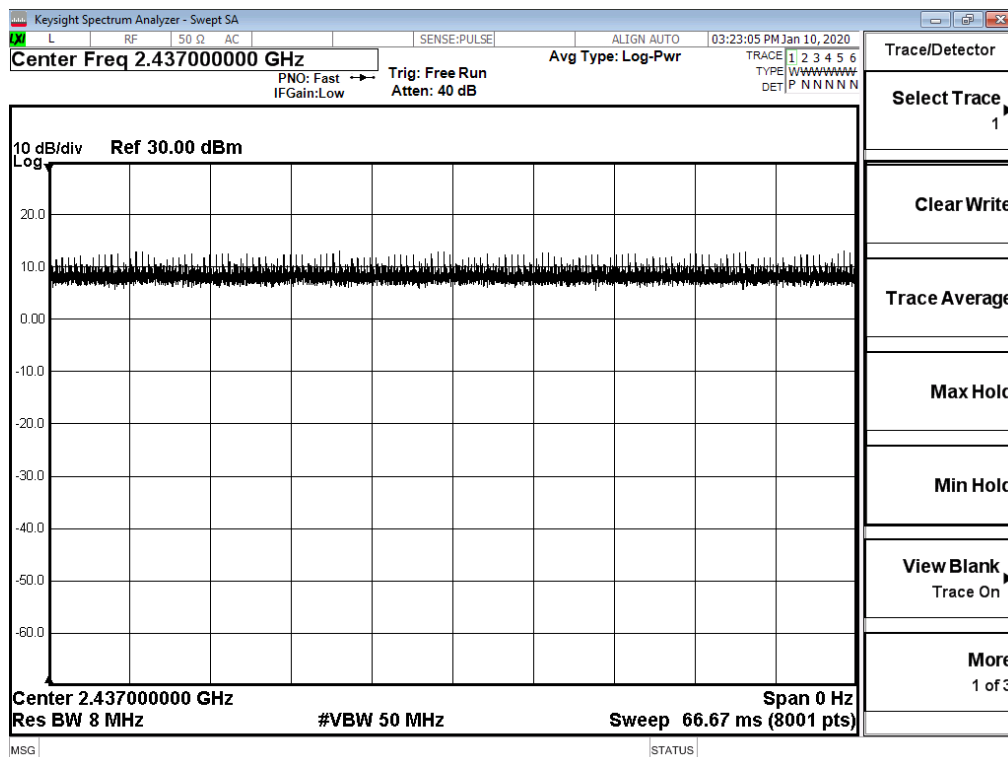
Duty Cycle_11G_2437_Ant1



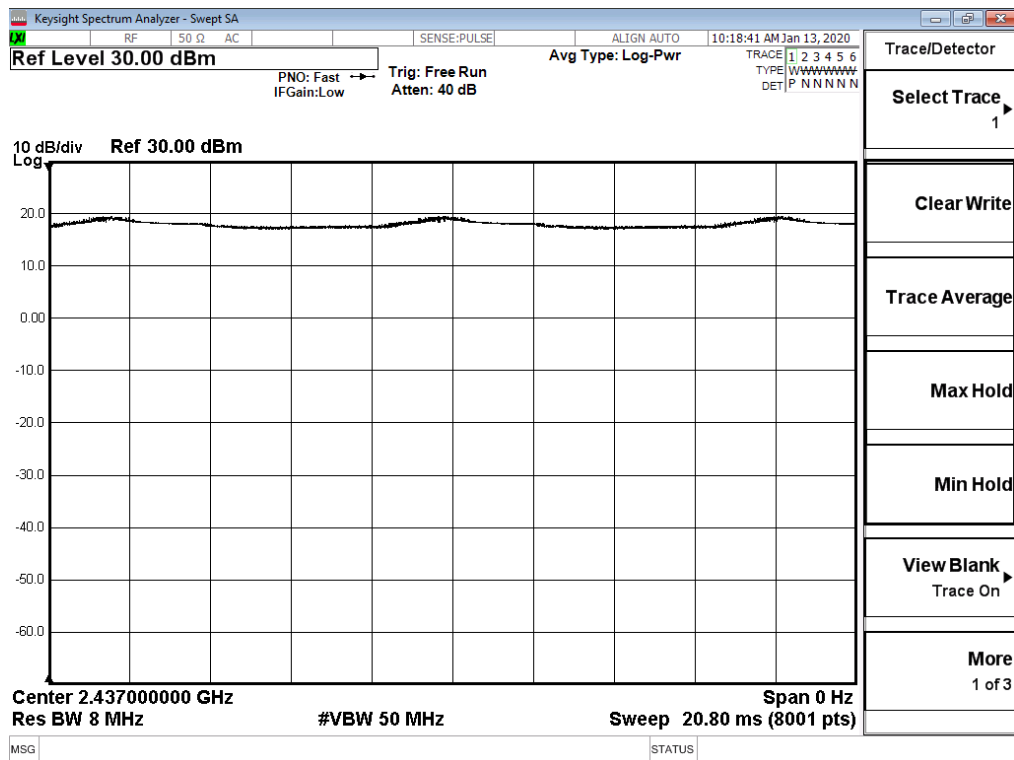
Duty Cycle_11N20SISO_2437_Ant1



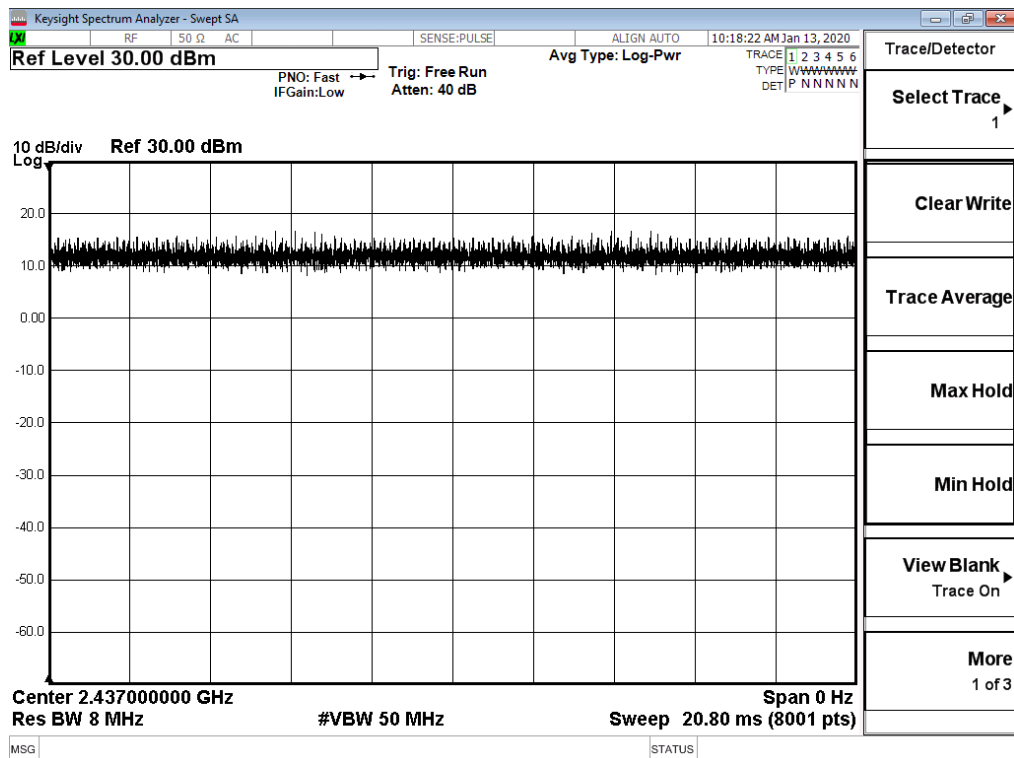
Duty Cycle_11N40SISO_2437_Ant1



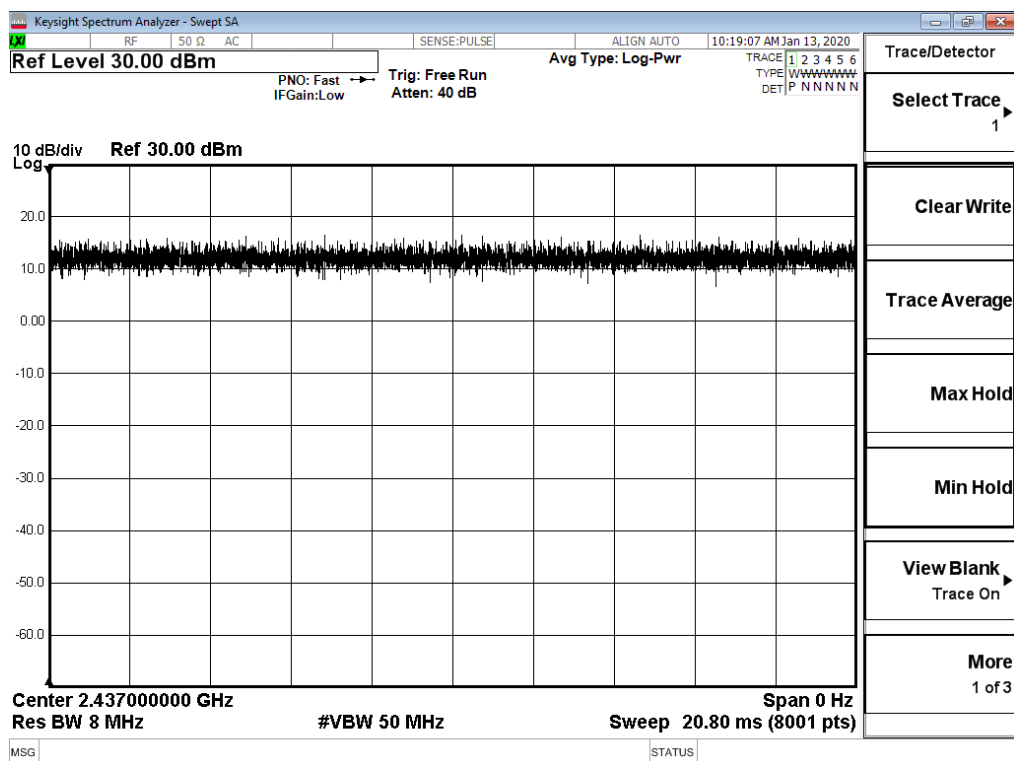
Duty Cycle_11B_2437_Ant2



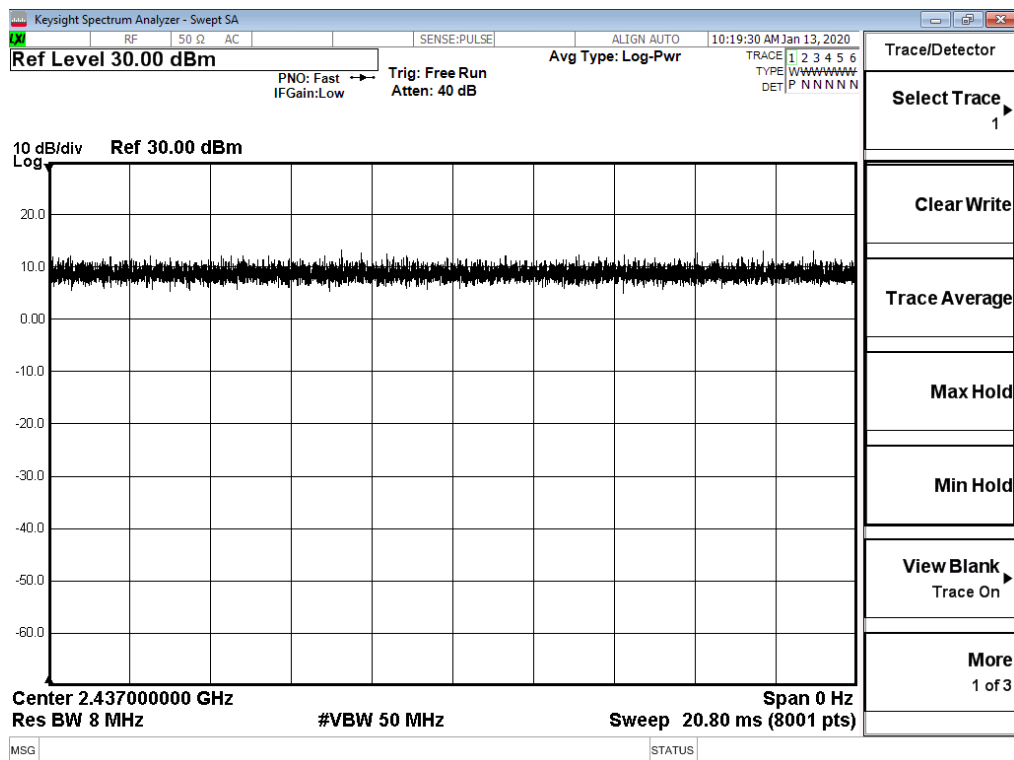
Duty Cycle_11G_2437_Ant2



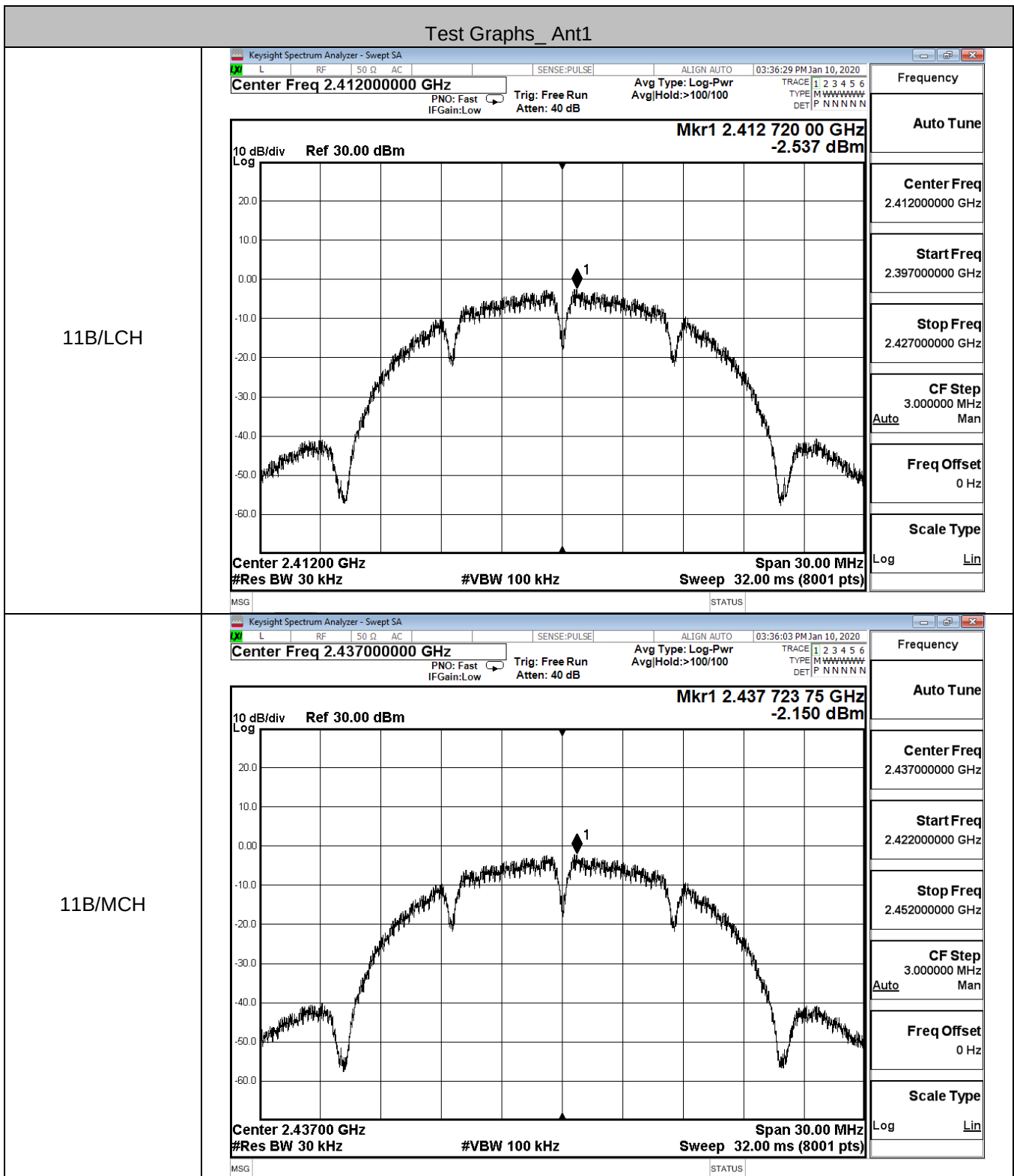
Duty Cycle_11N20SISO_2437_Ant2



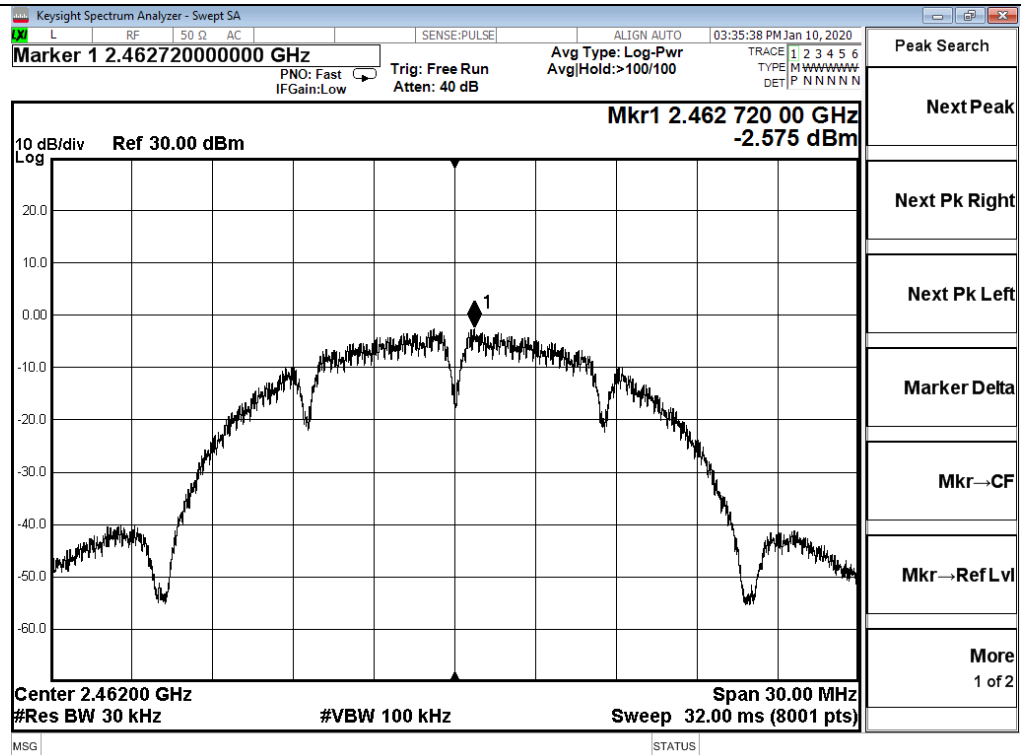
Duty Cycle_11N40SISO_2437_Ant2



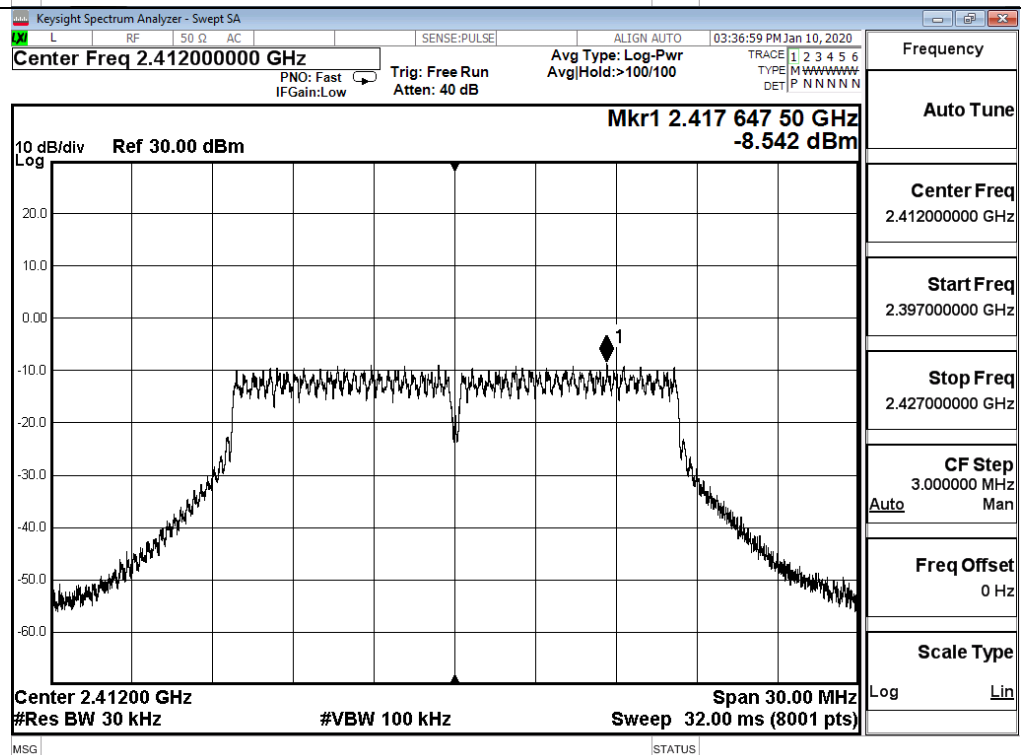
A.2 Maximum Power Spectral Density



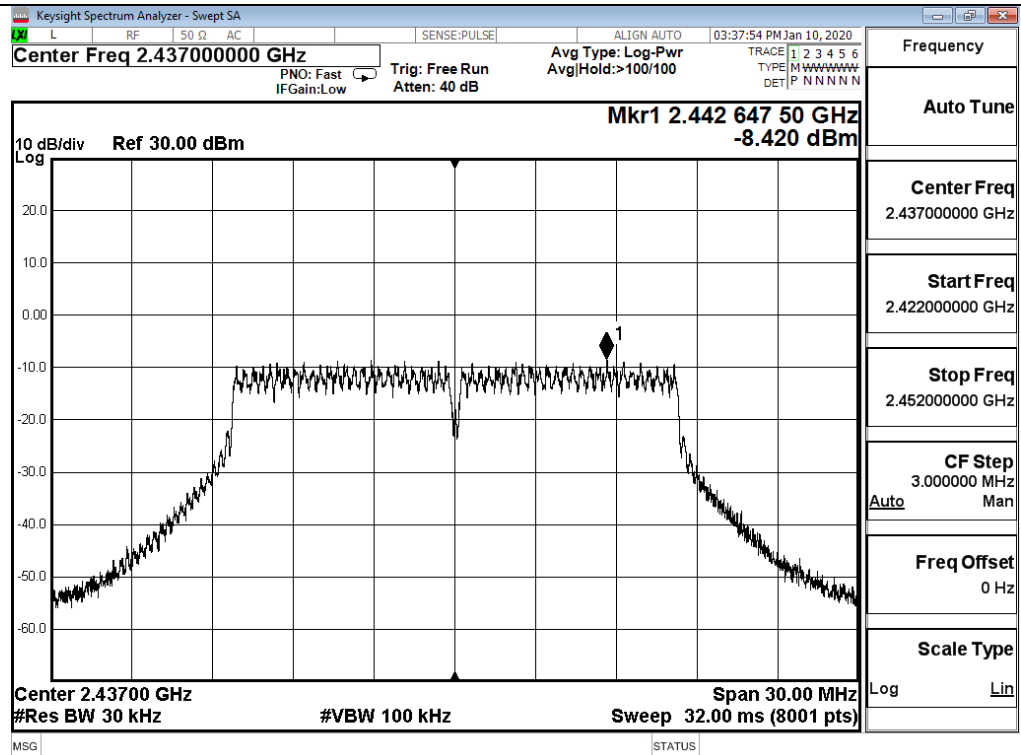
11B/HCH



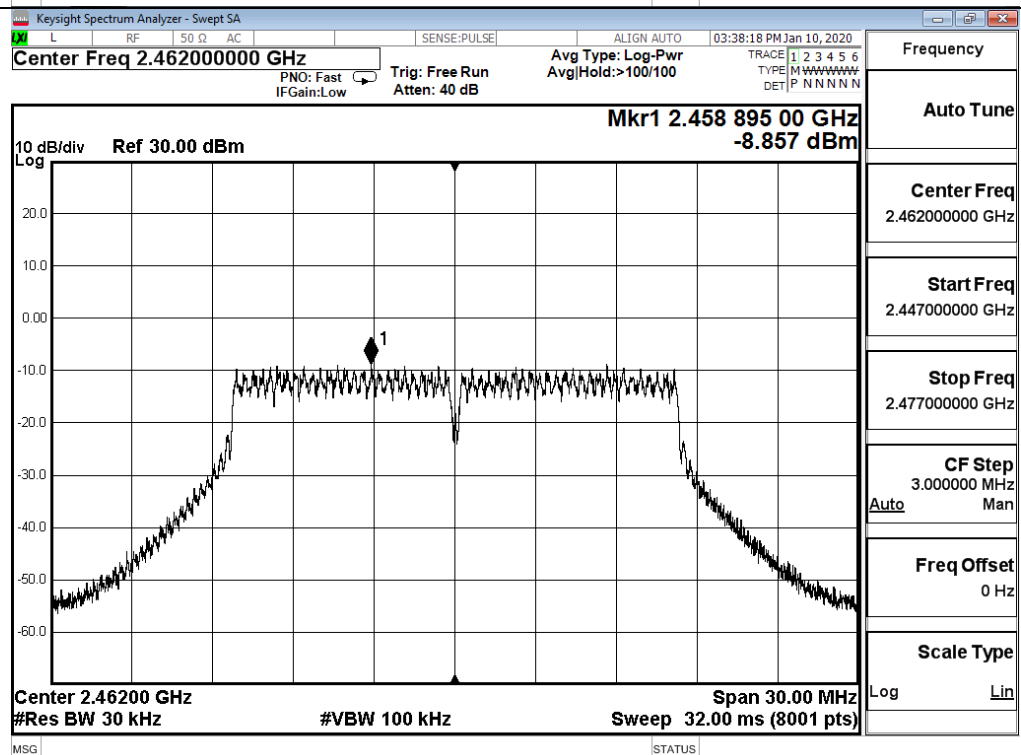
11G/LCH



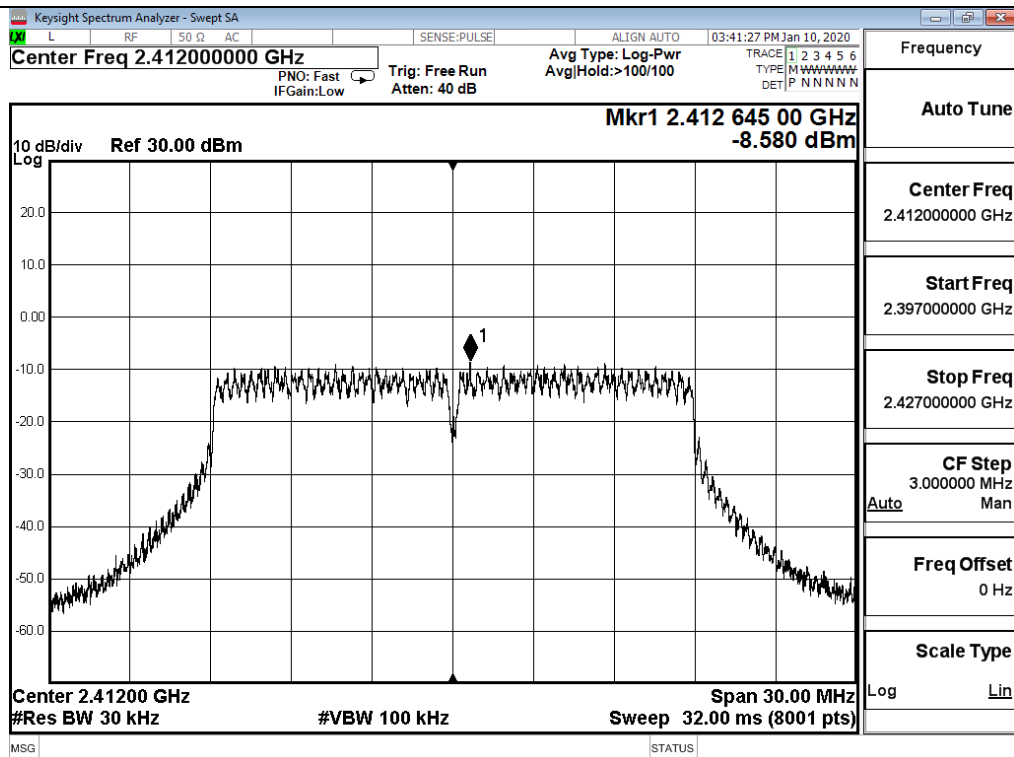
11G/MCH



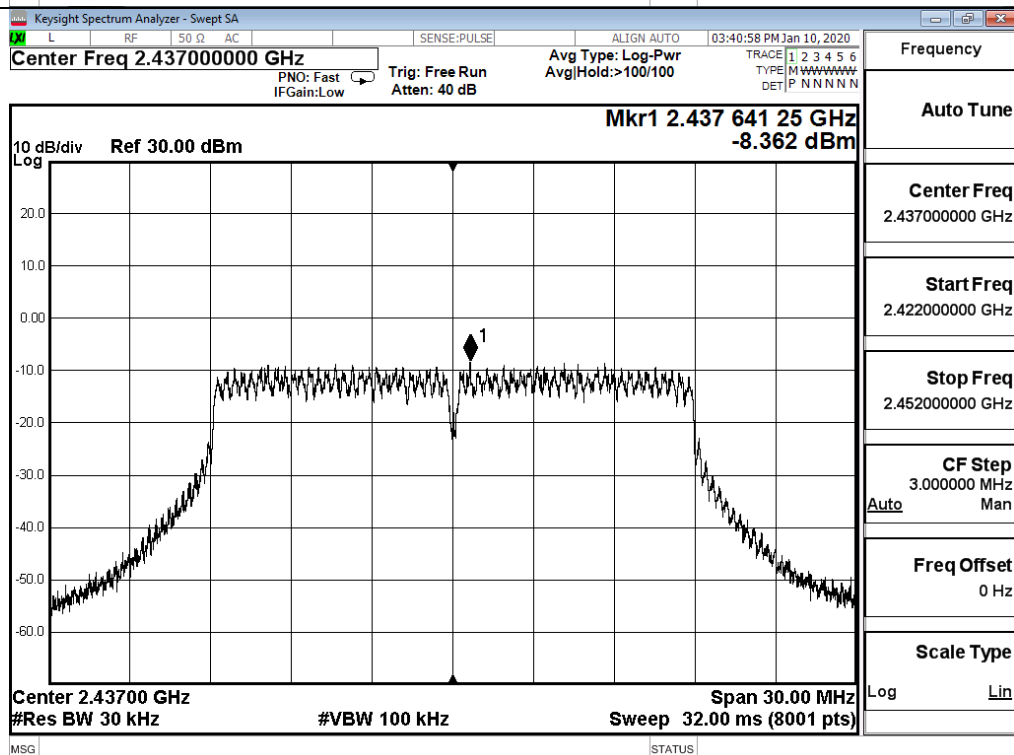
11G/HCH



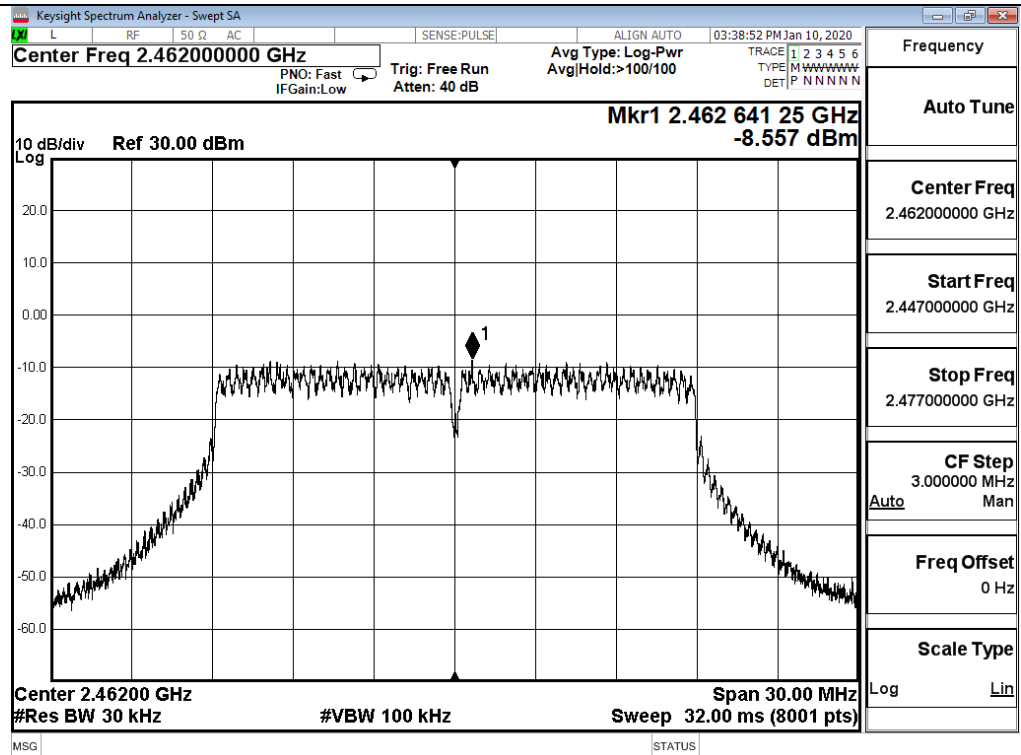
11N20SISO/LCH



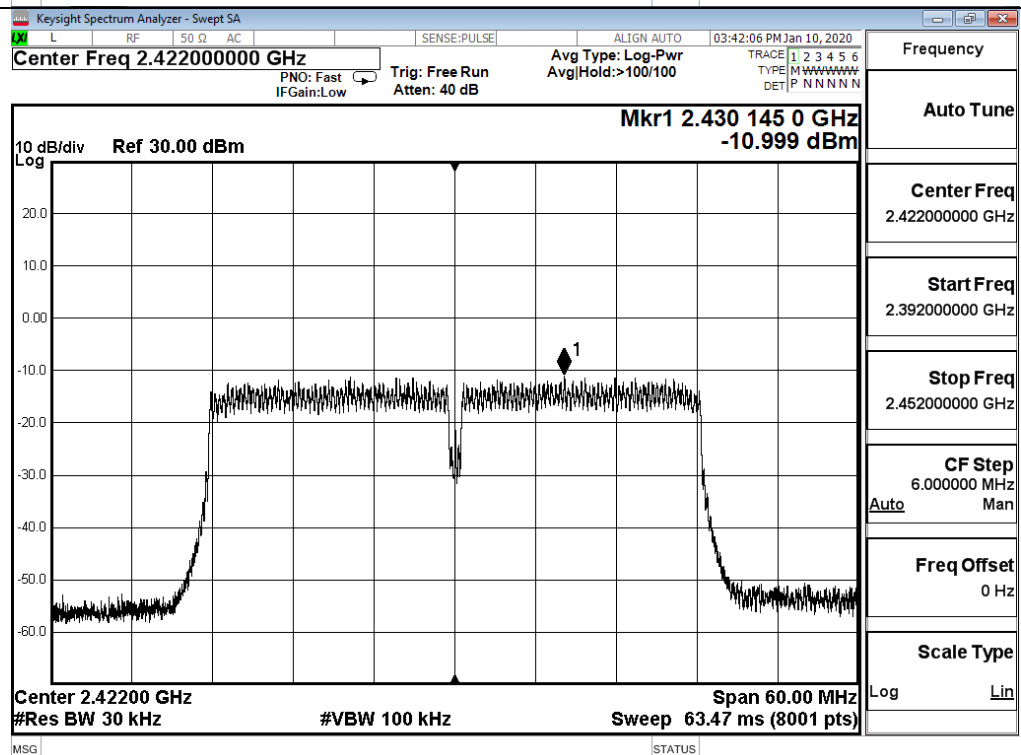
11N20SISO/MCH



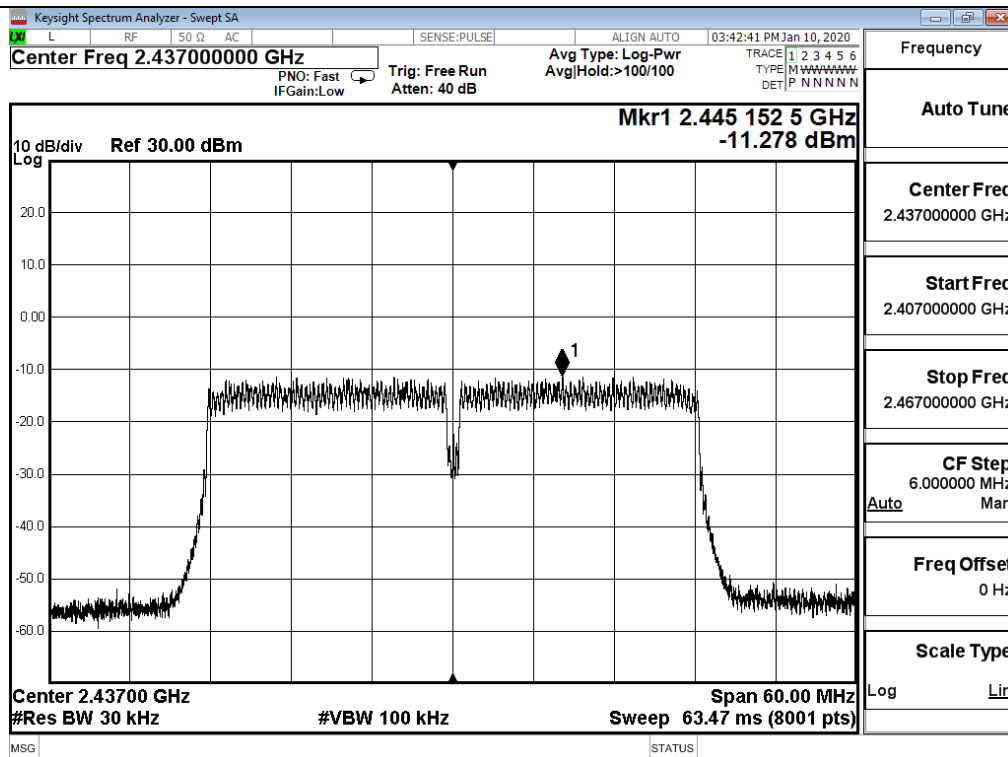
11N20SISO/HCH



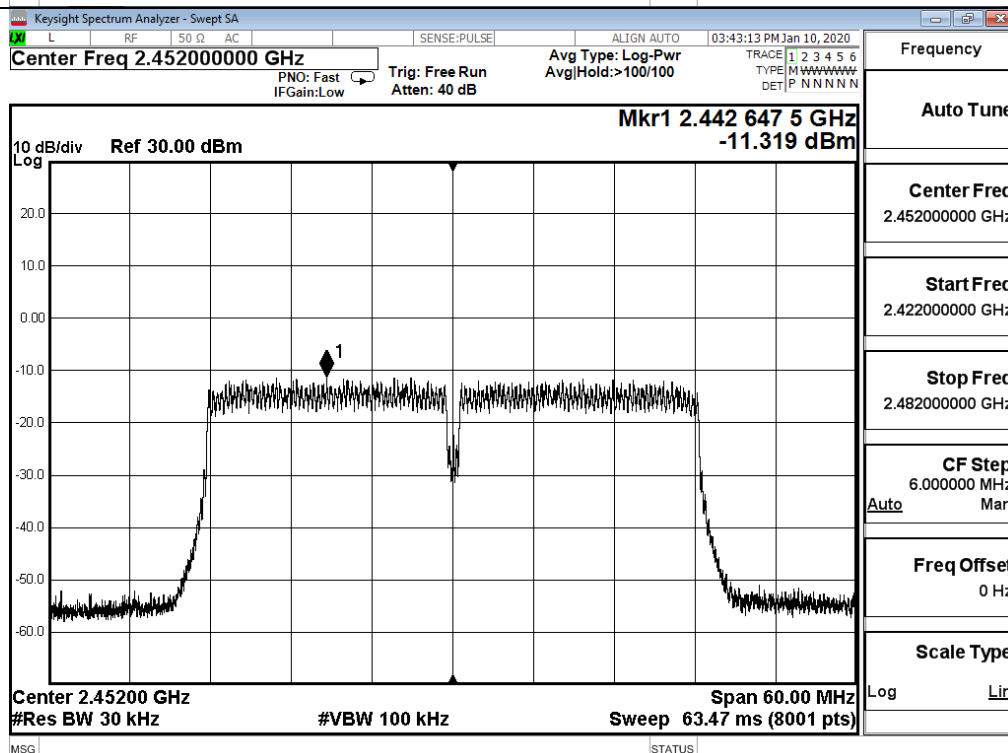
11N40SISO/LCH



11N40SISO/MCH

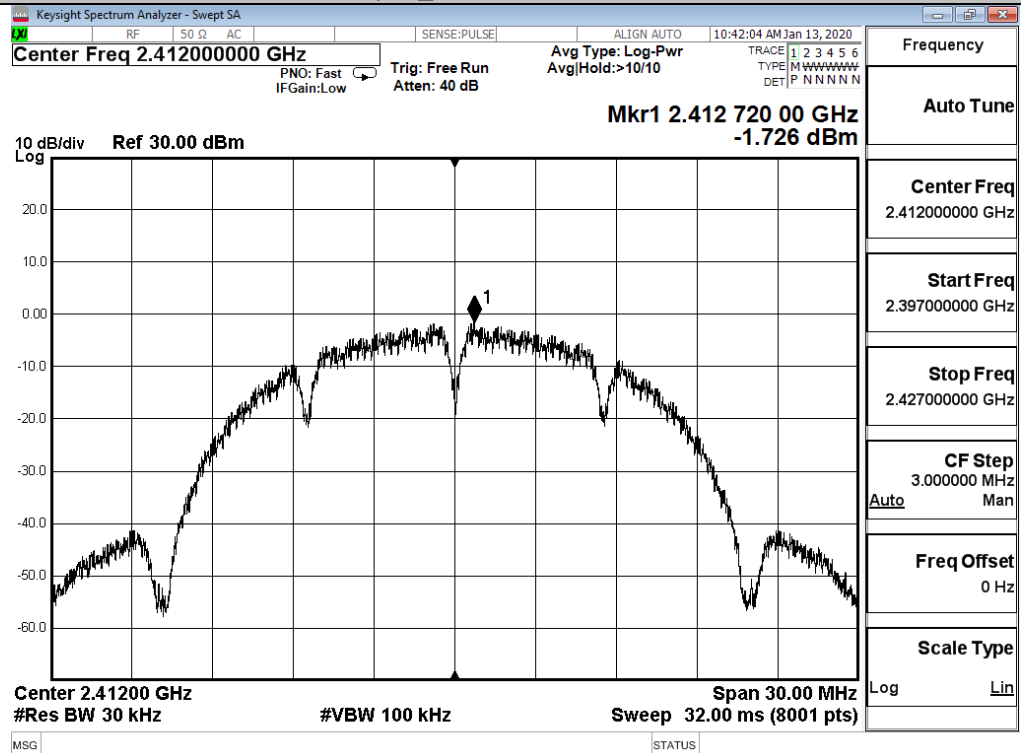


11N40SISO/HCH

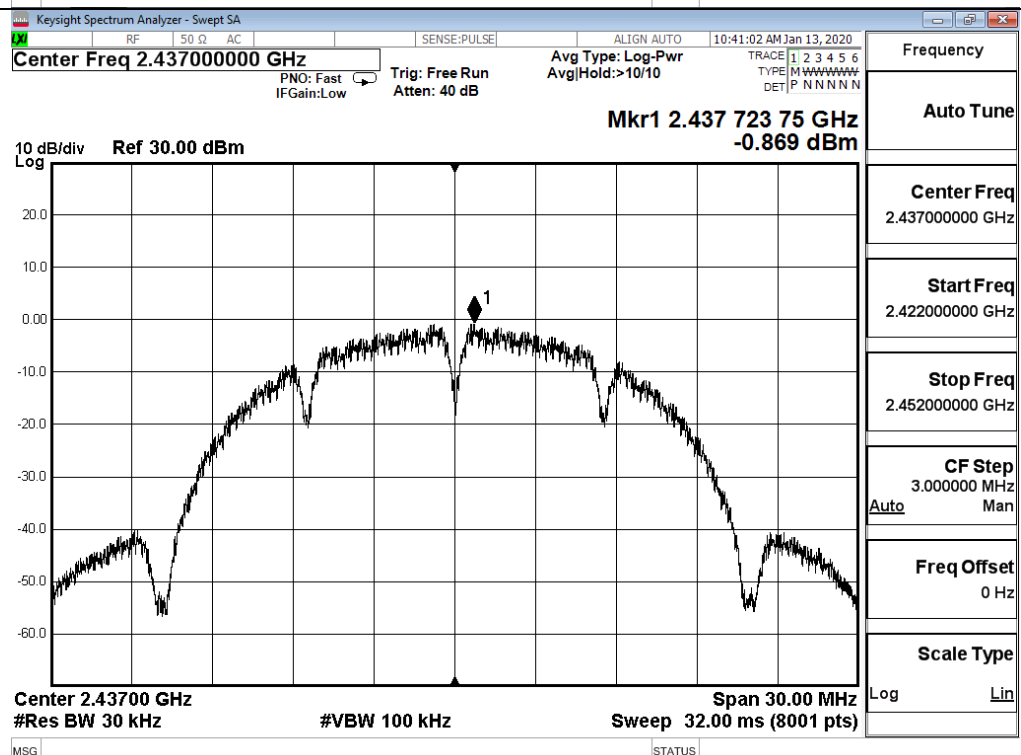


Test Graphs_ Ant2

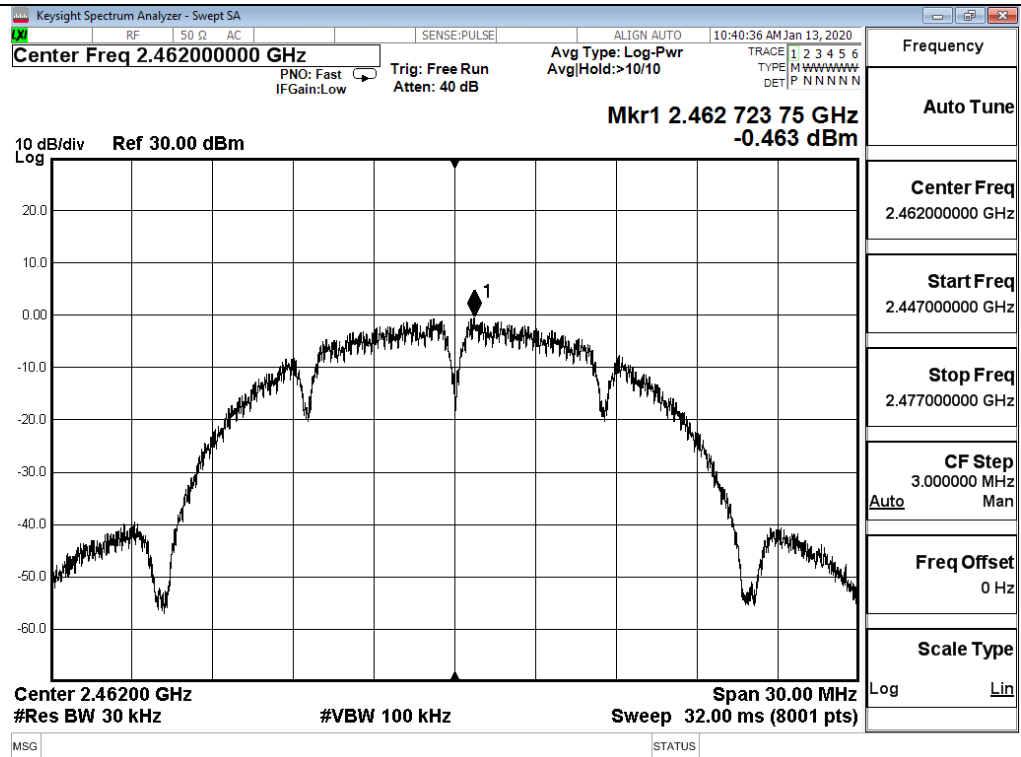
11B/LCH



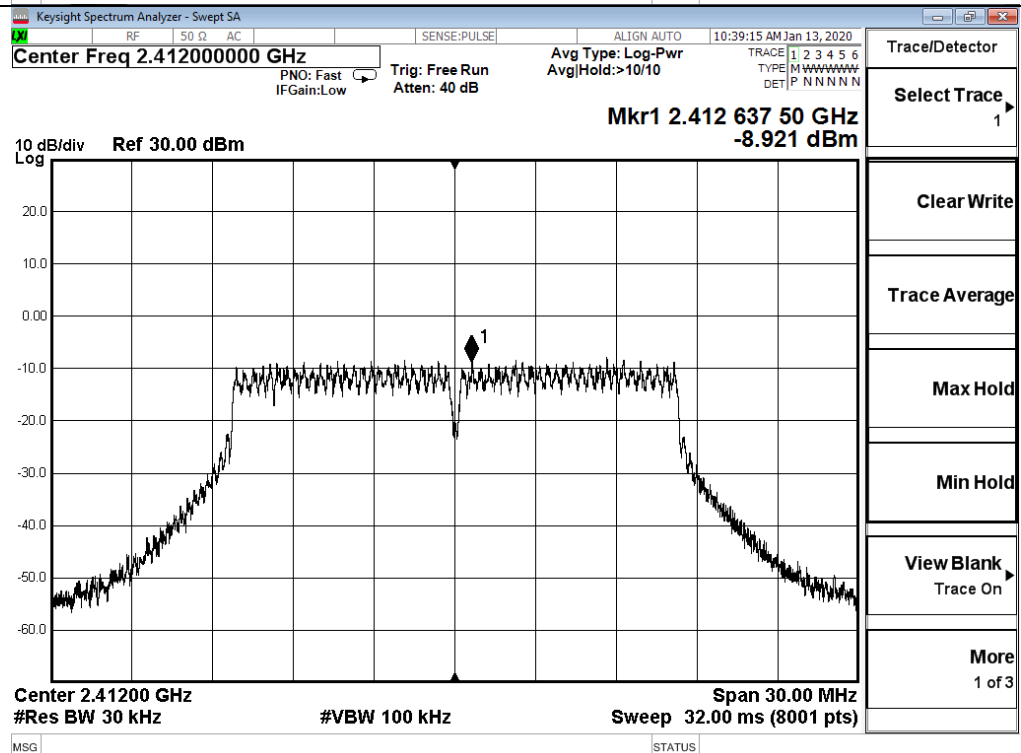
11B/MCH



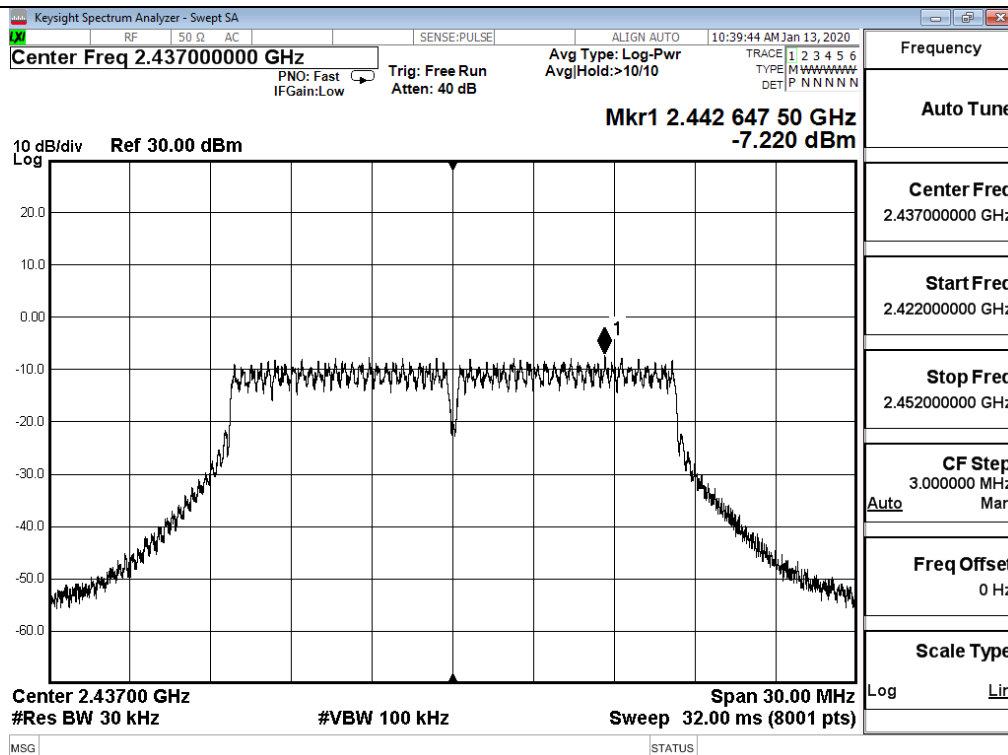
11B/HCH



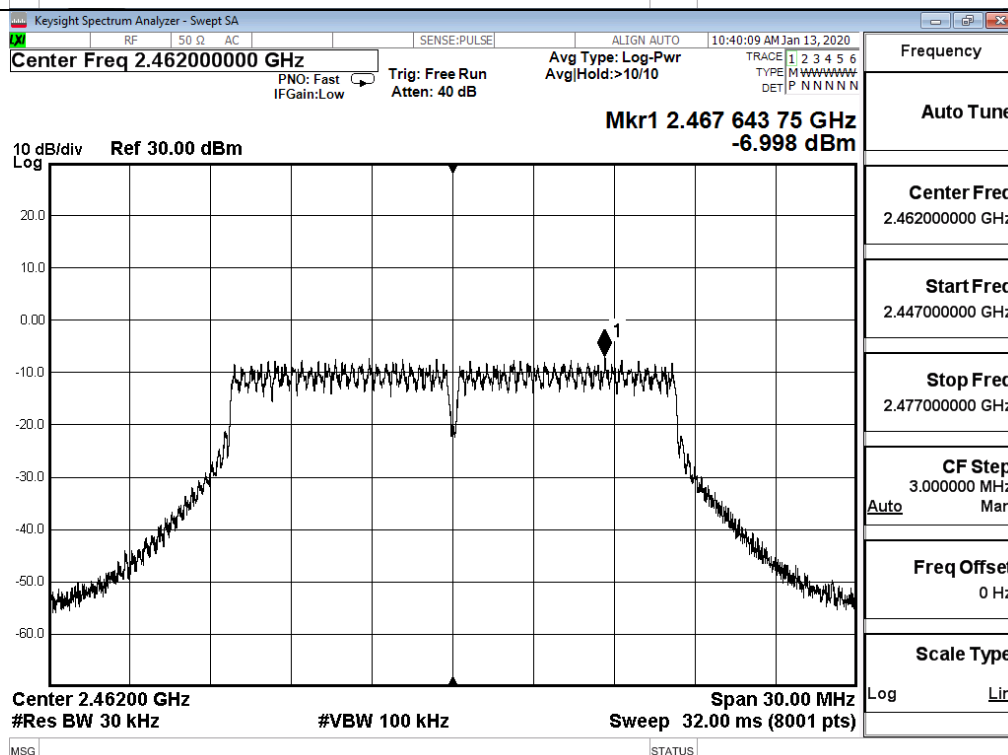
11G/LCH



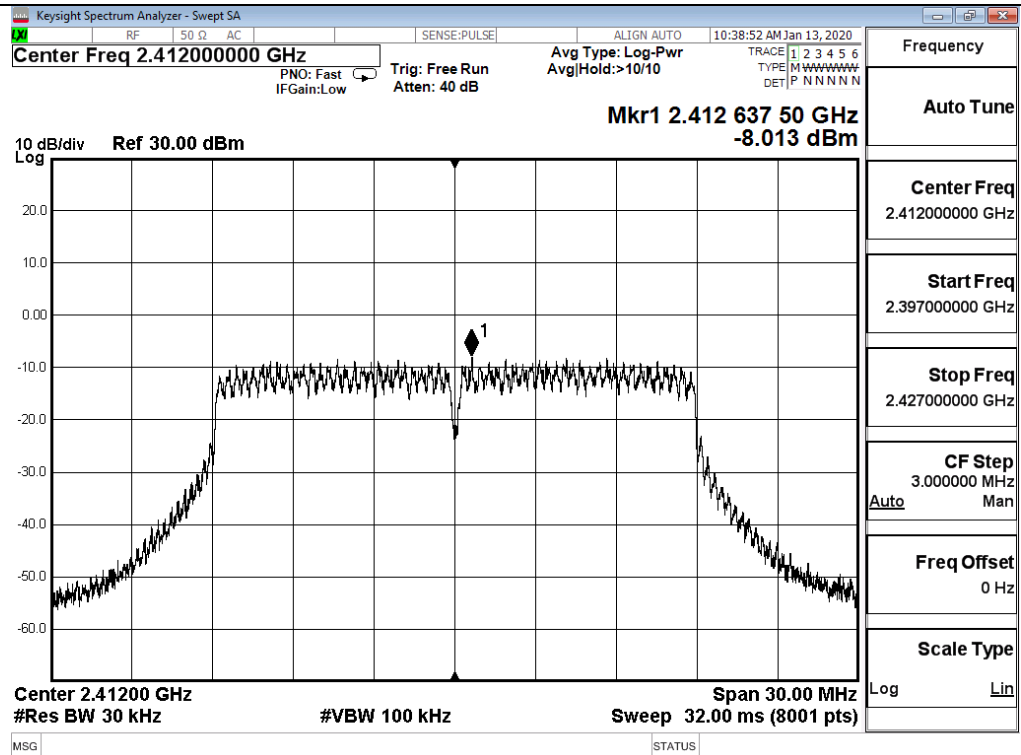
11G/MCH



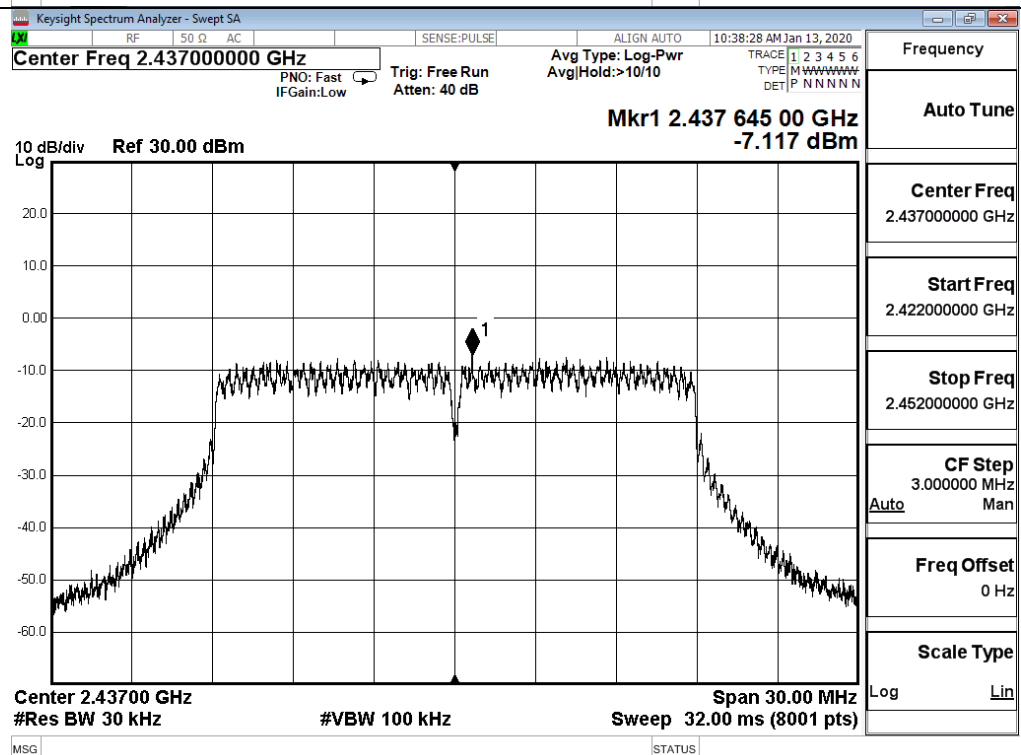
11G/HCH



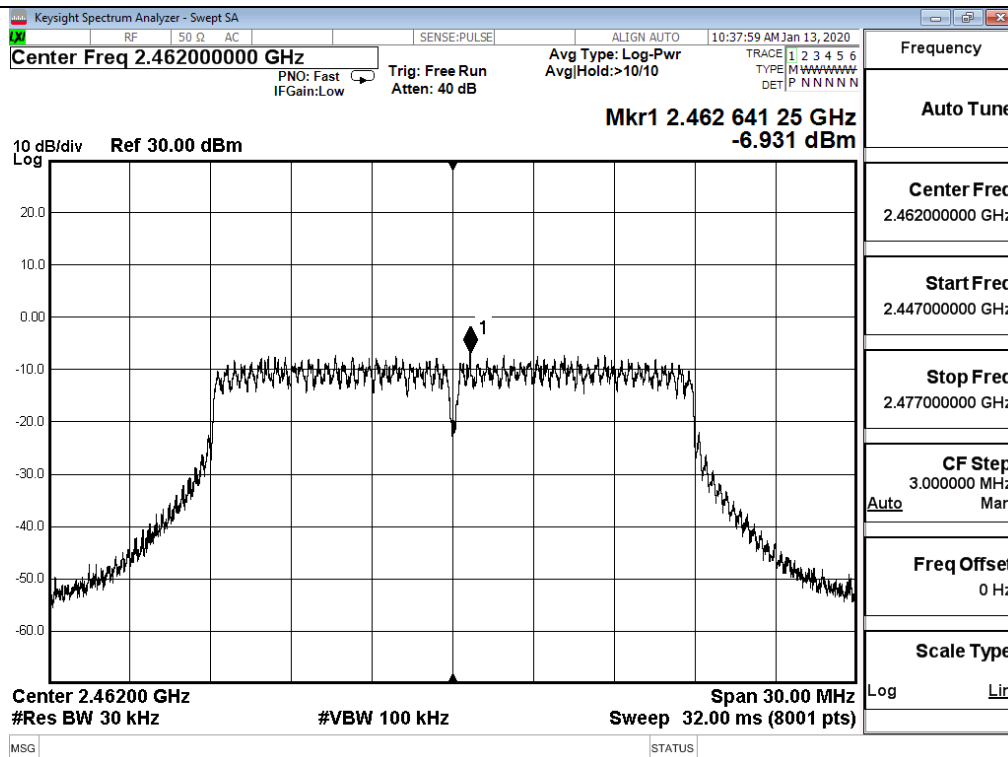
11N20SISO/LCH



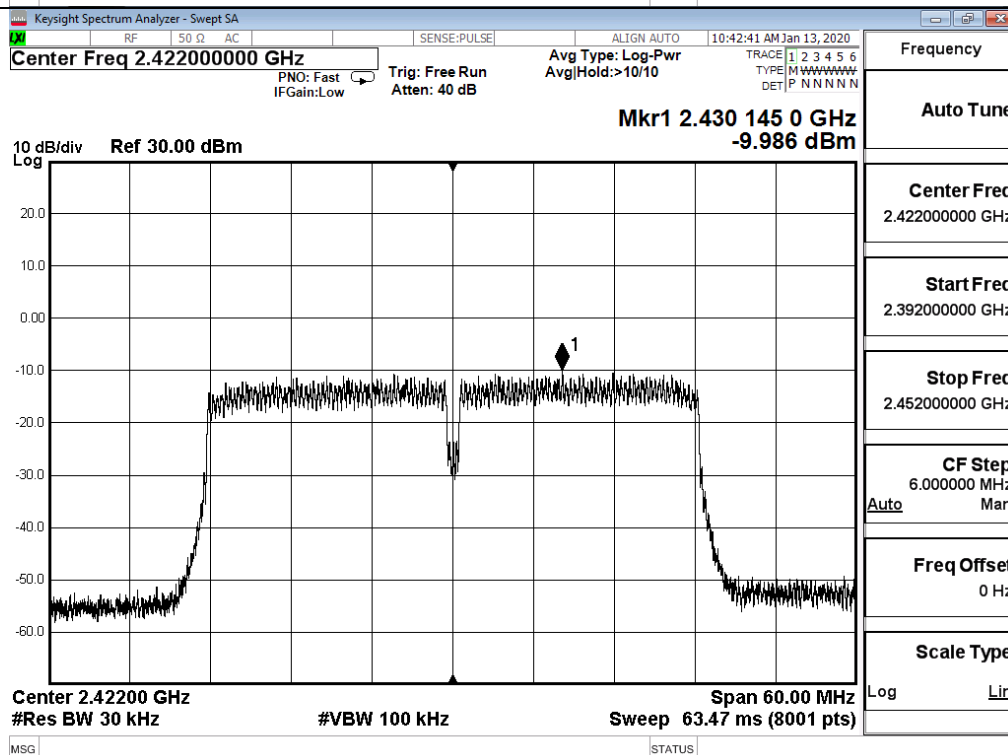
11N20SISO/MCH



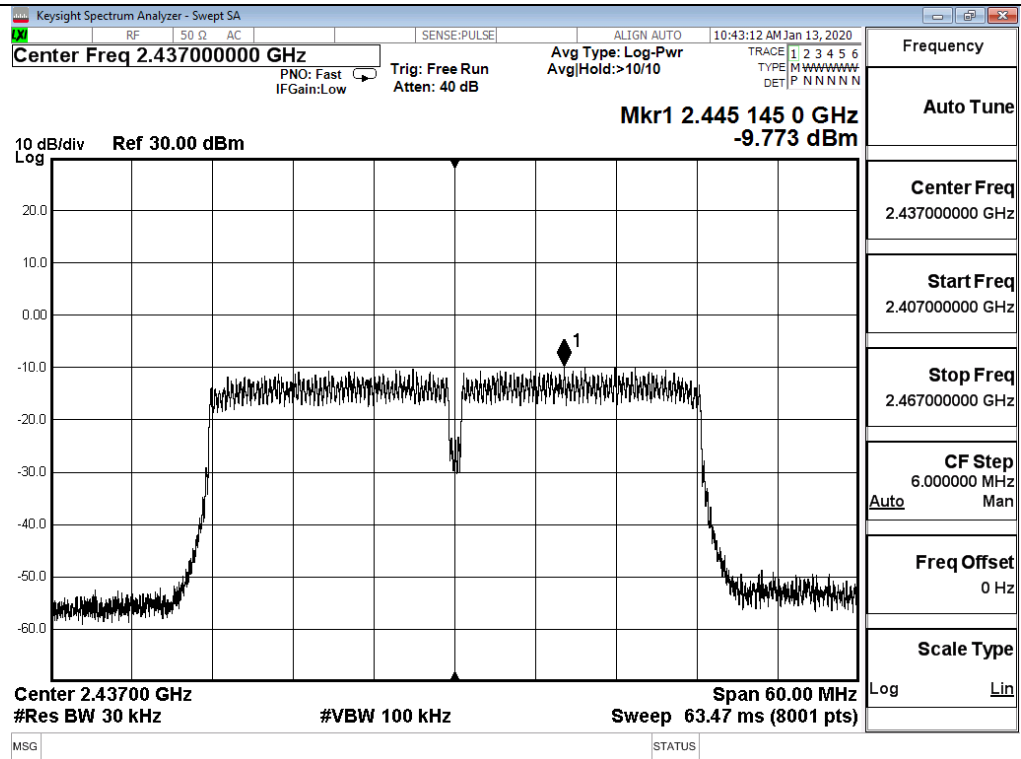
11N20SISO/HCH



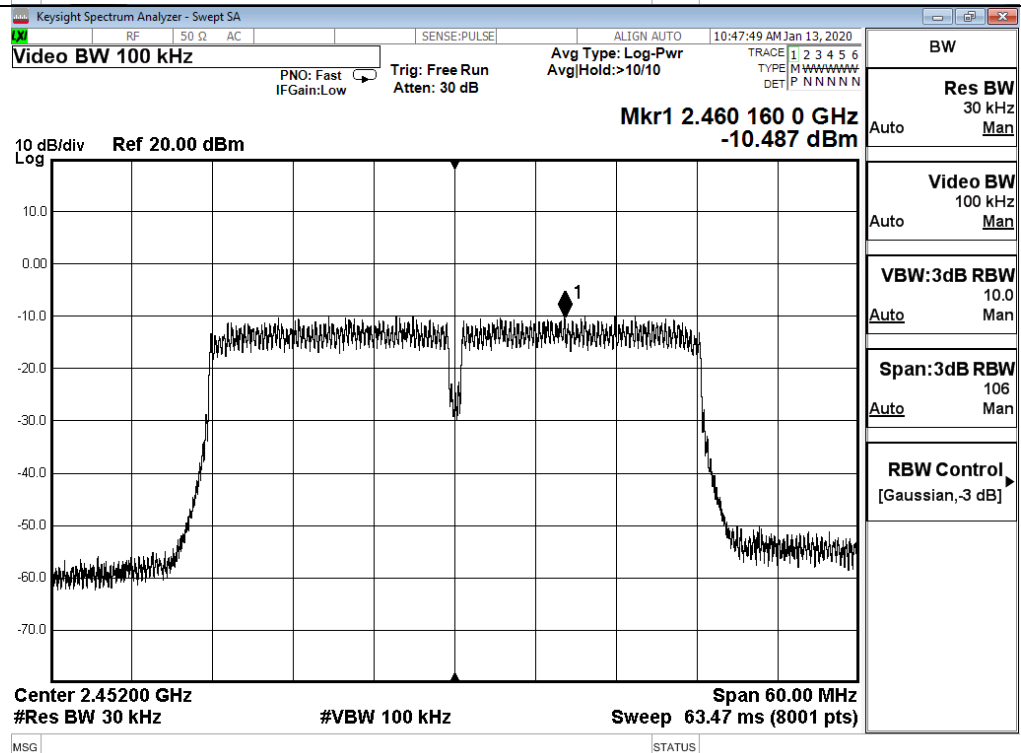
11N40SISO/LCH



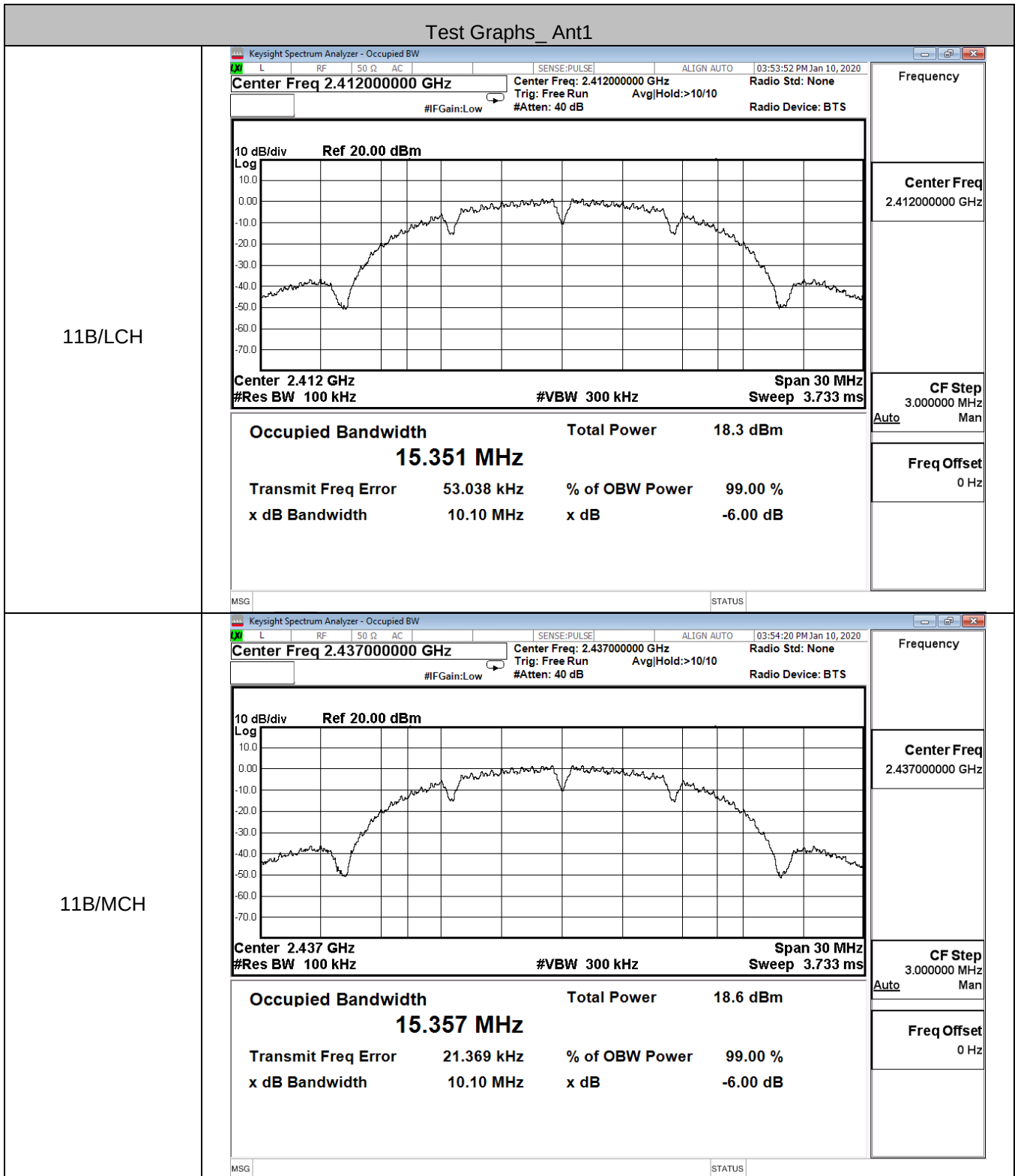
11N40SISO/MCH



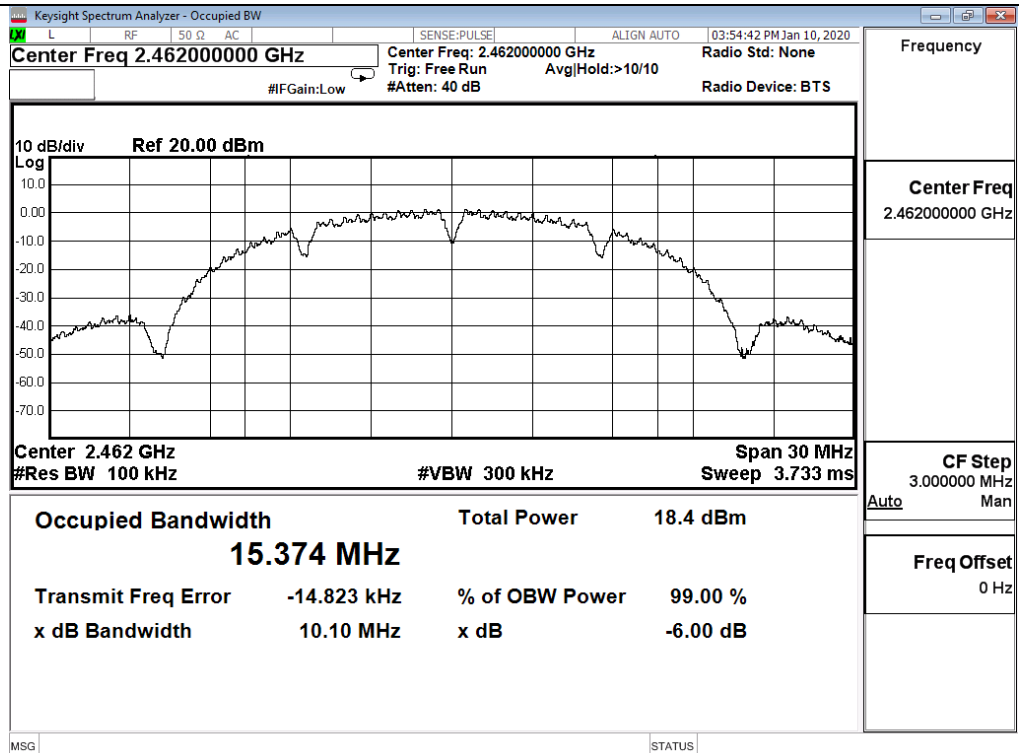
11N40SISO/HCH



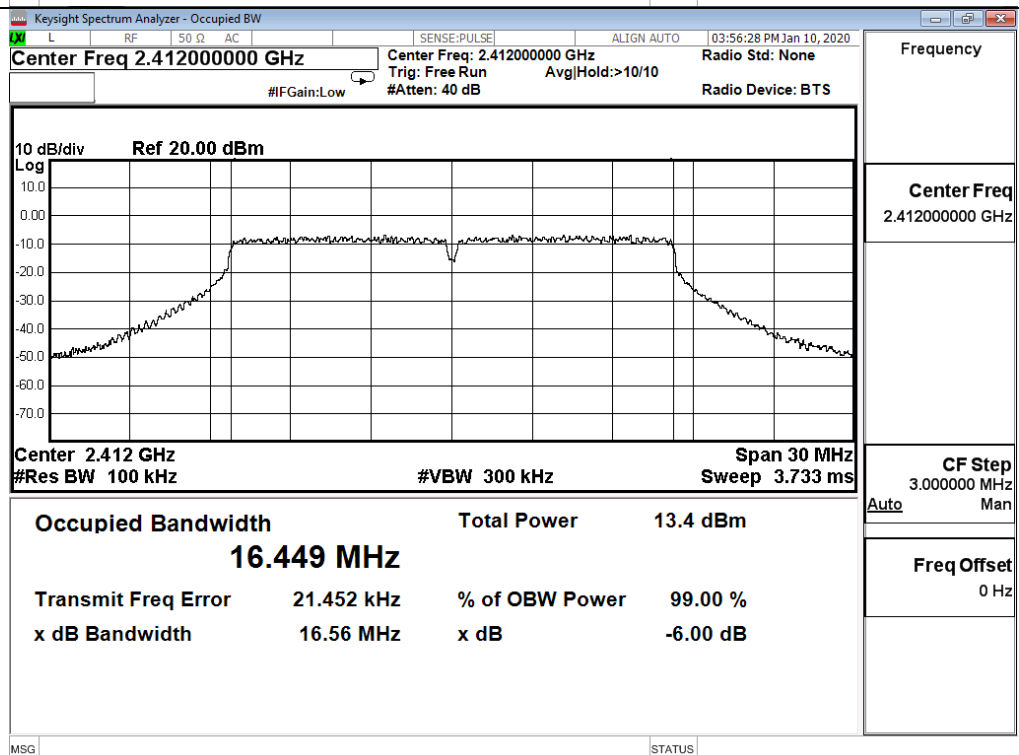
A.3 6dB Bandwidth



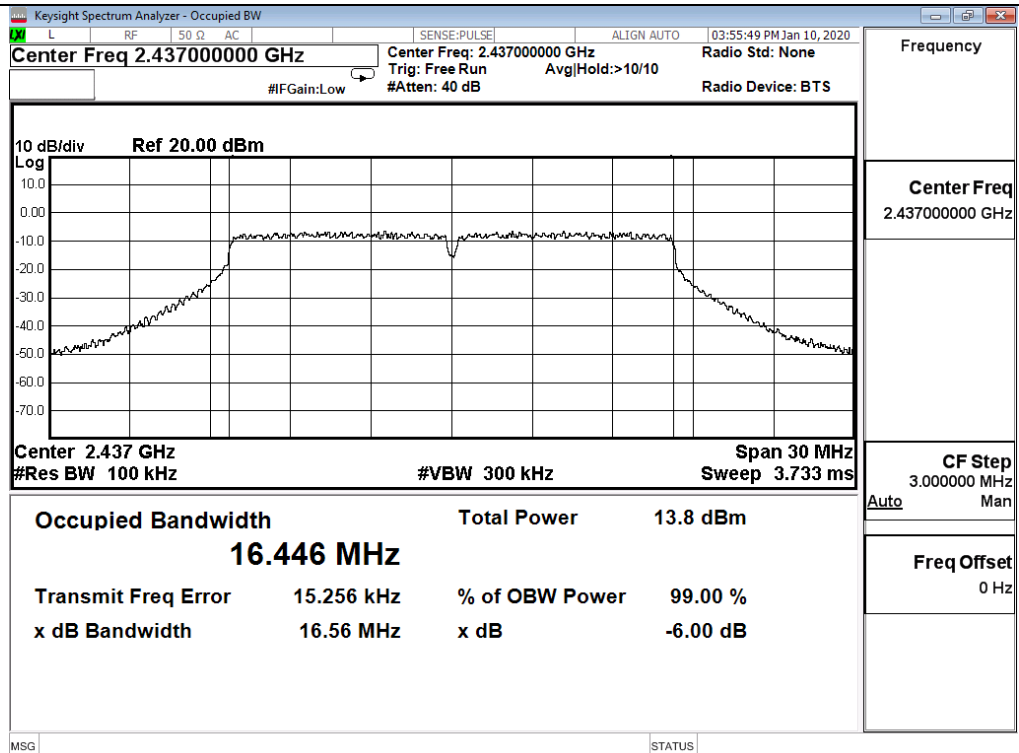
11B/HCH



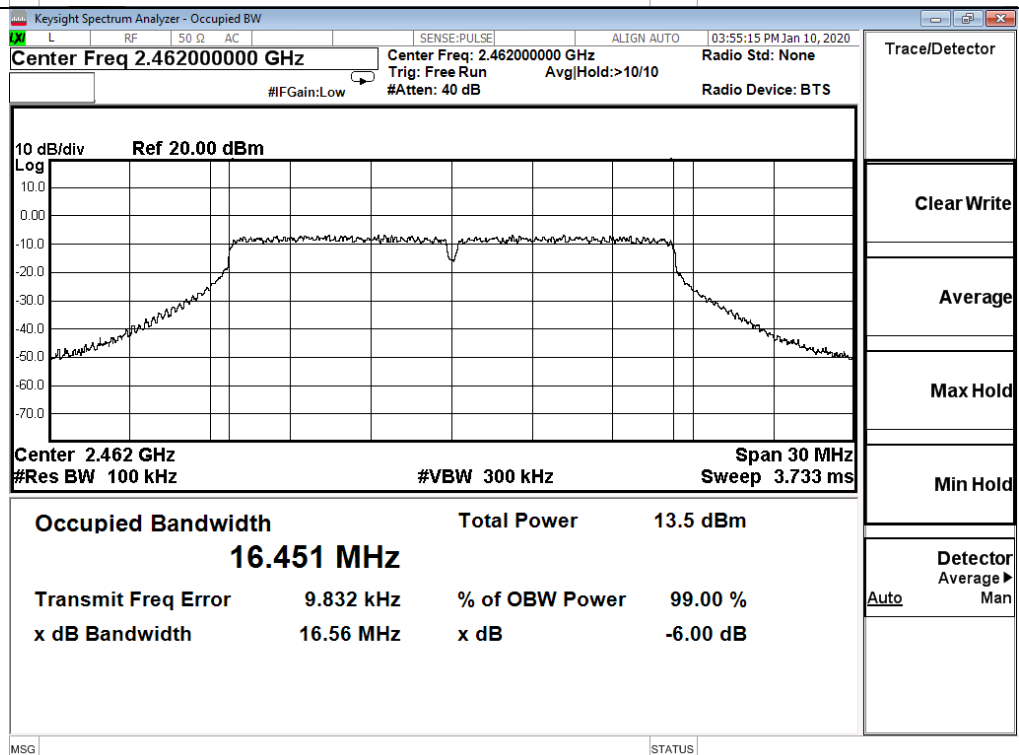
11G/LCH



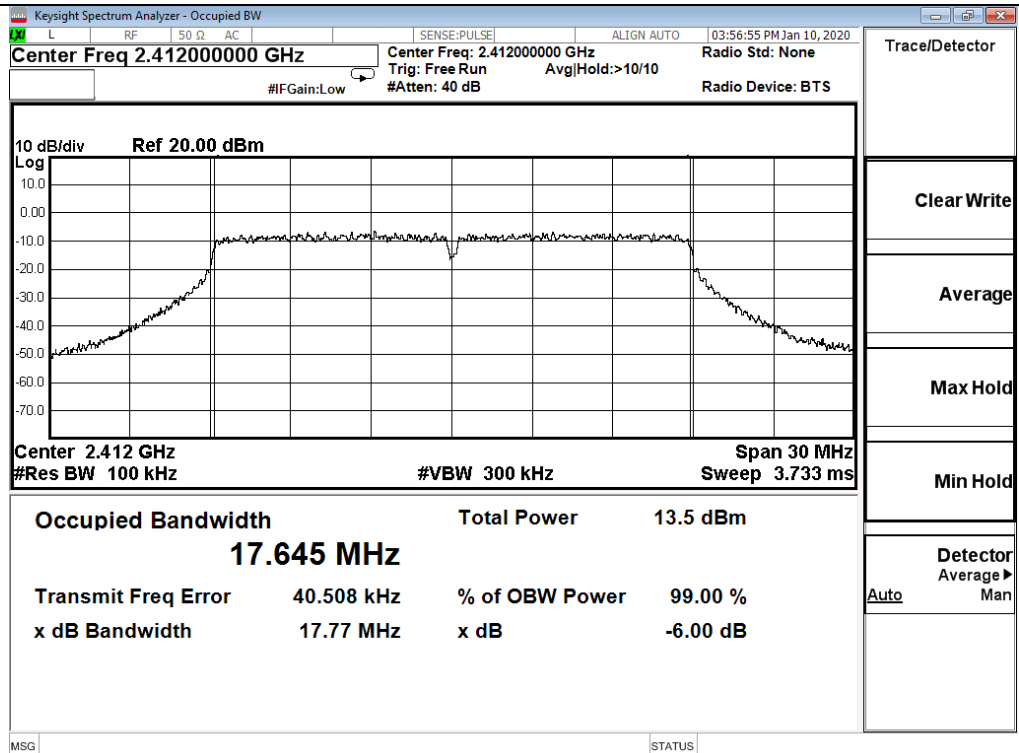
11G/MCH



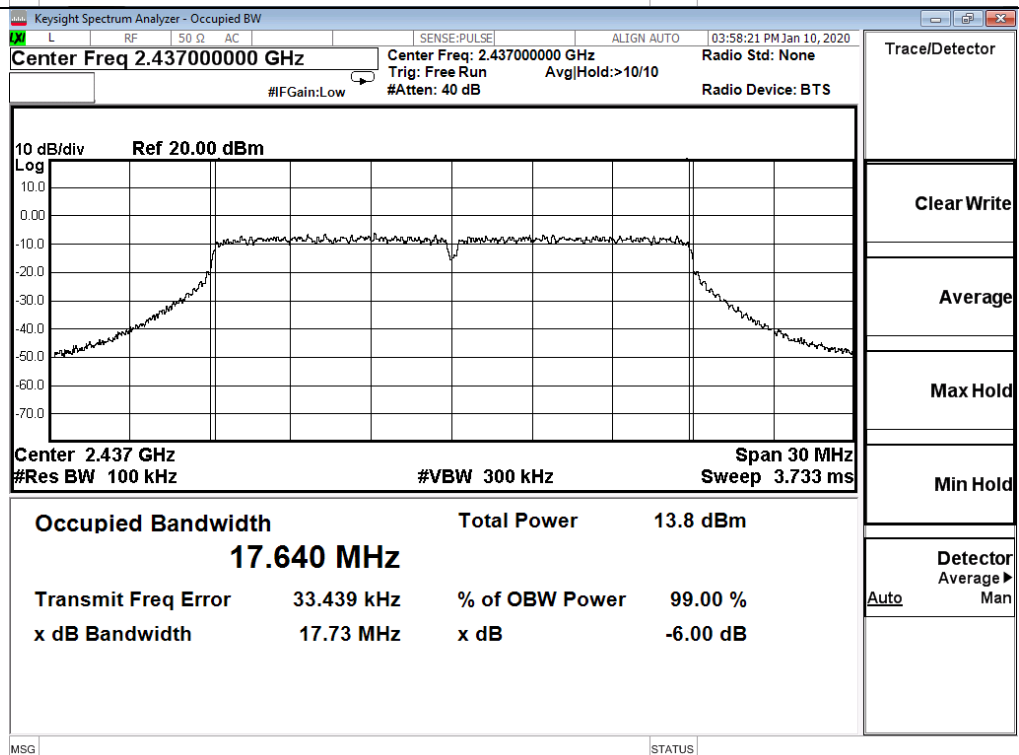
11G/HCH



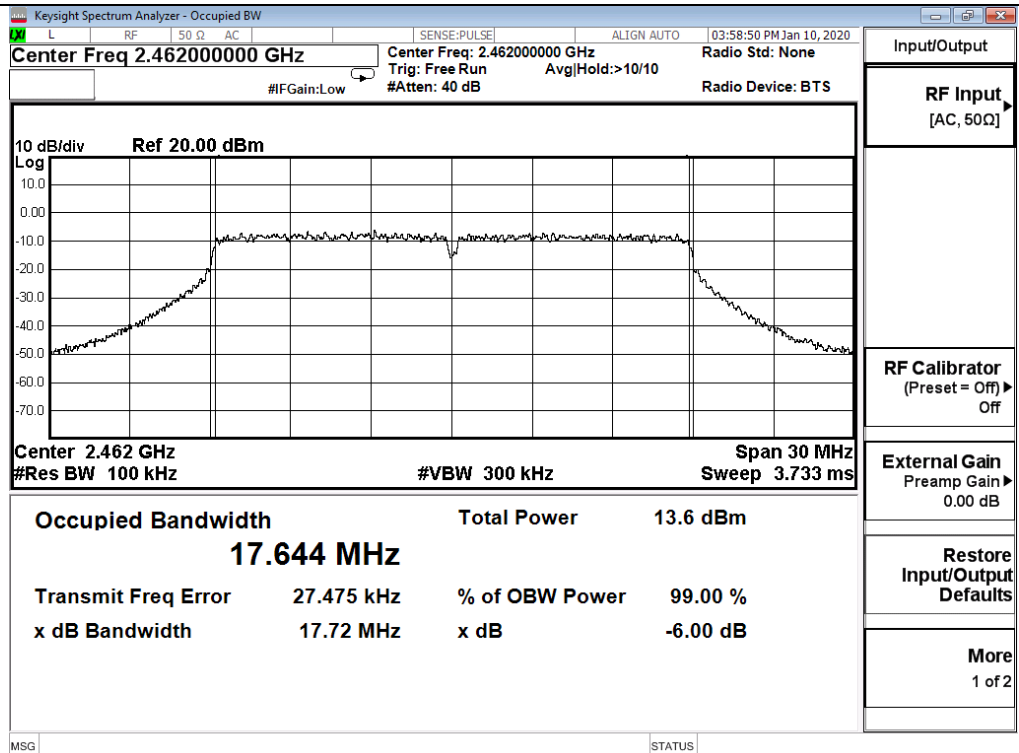
11N20SISO/LCH



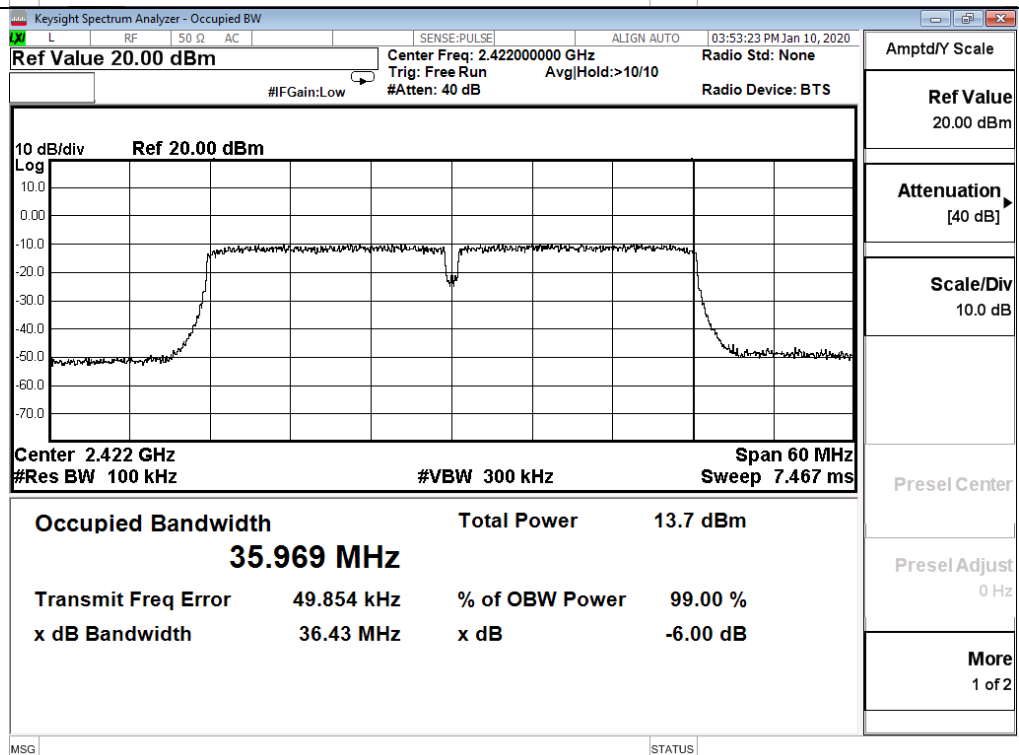
11N20SISO/MCH



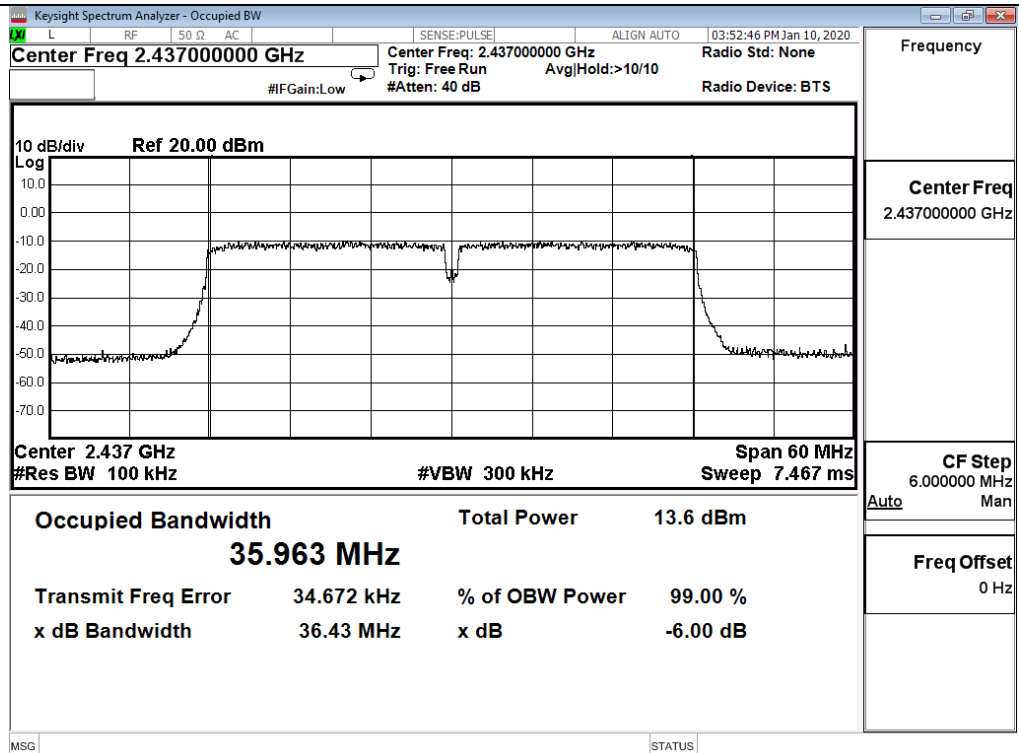
11N20SISO/HCH



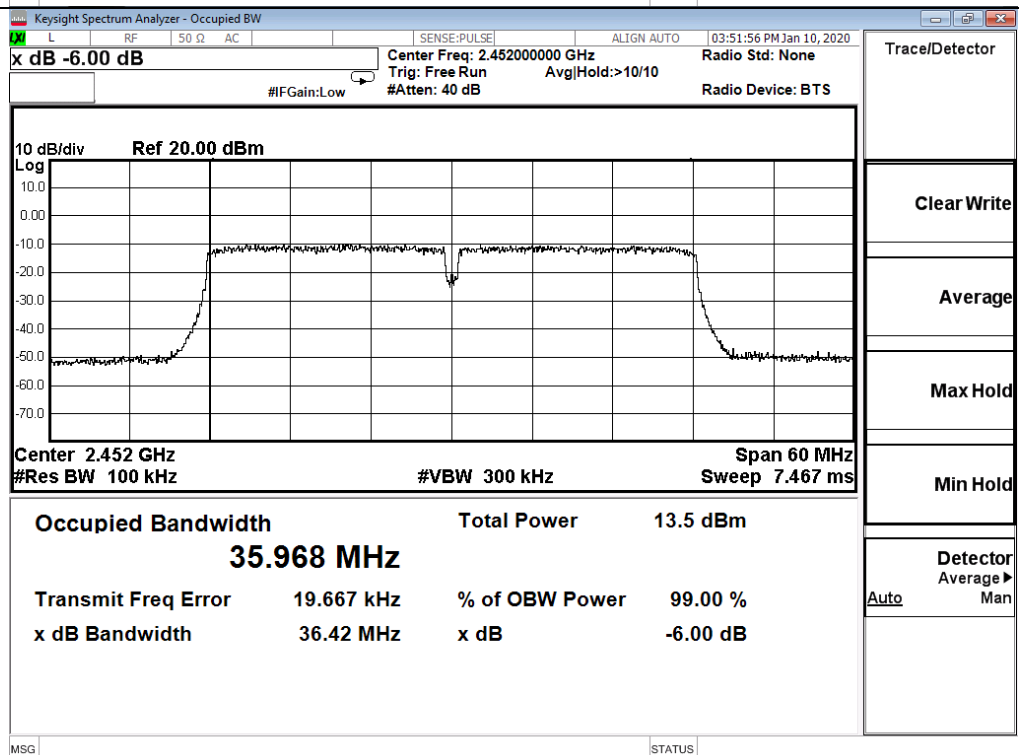
11N40SISO/LCH



11N40SISO/MCH

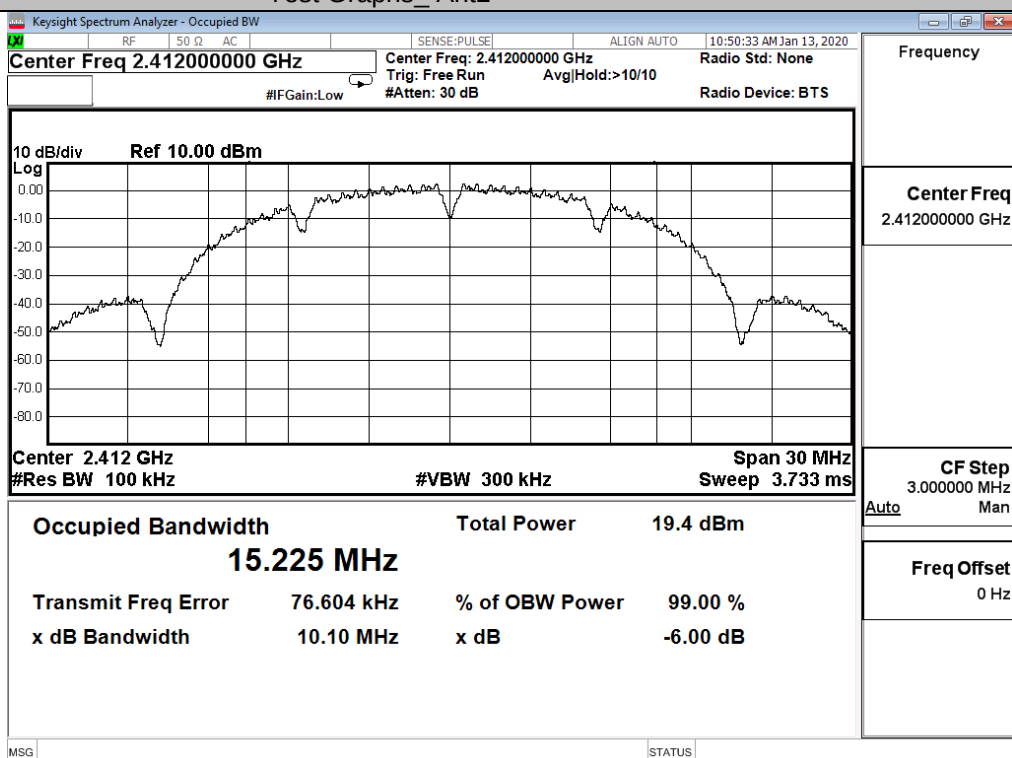


11N40SISO/HCH

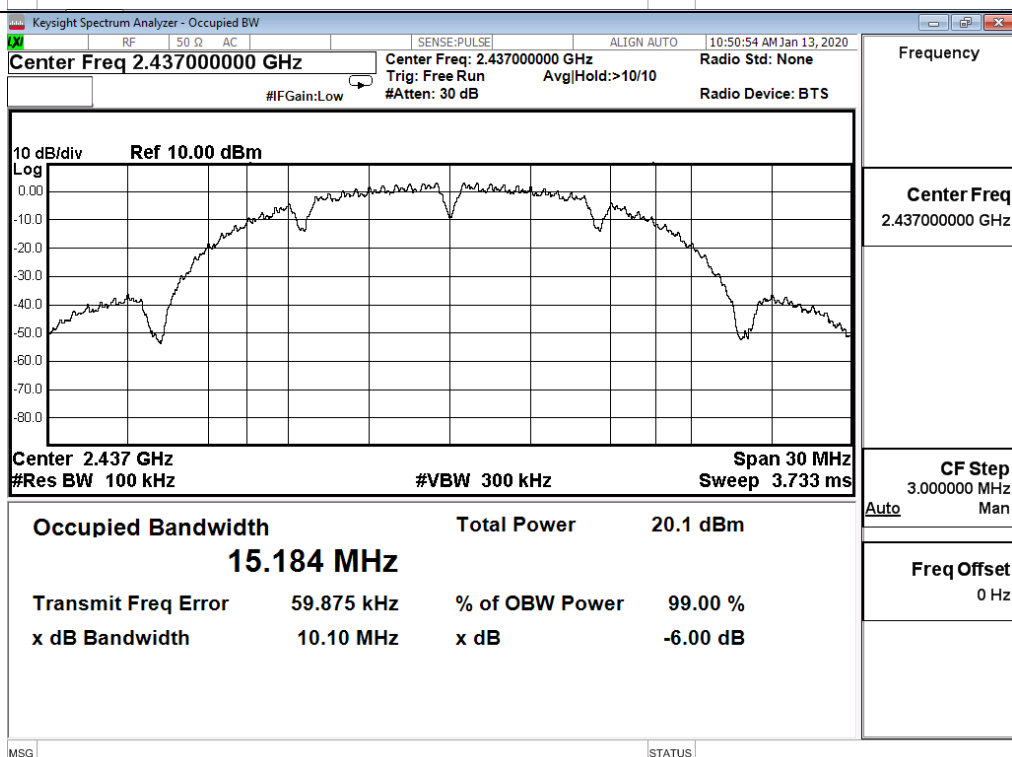


Test Graphs_Ant2

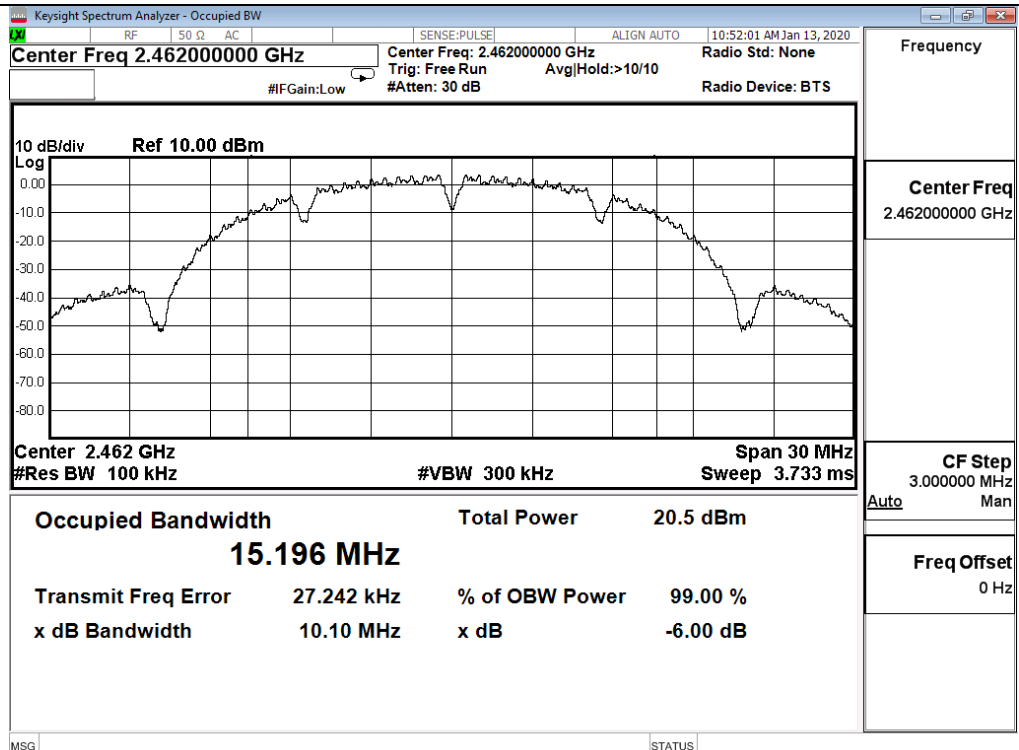
11B/LCH



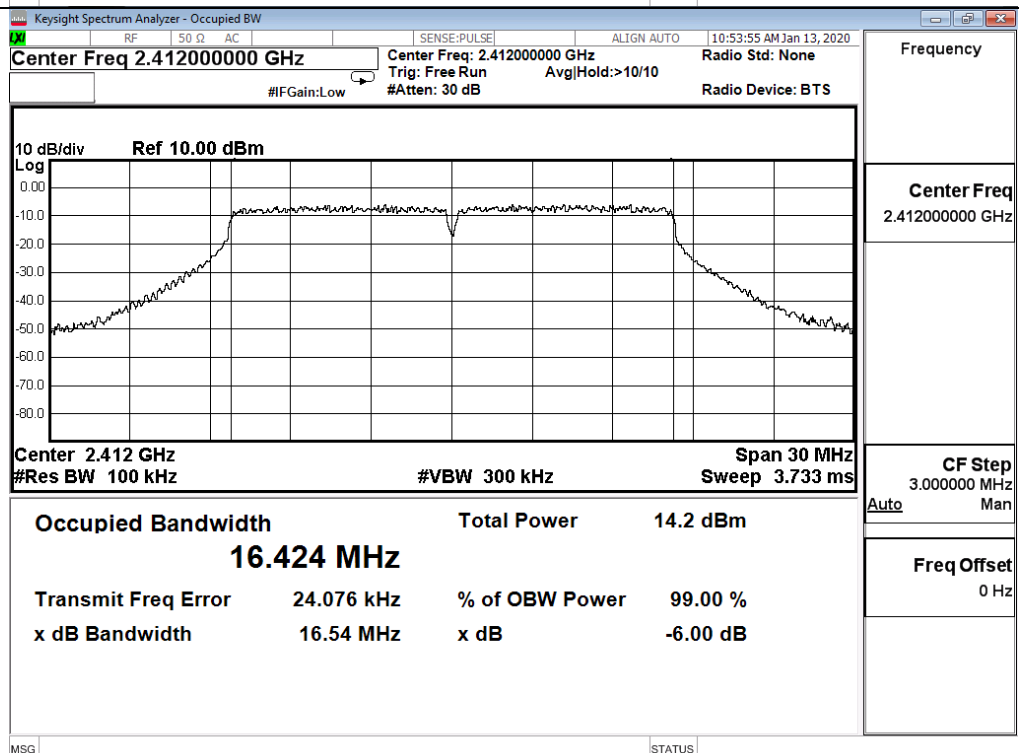
11B/MCH



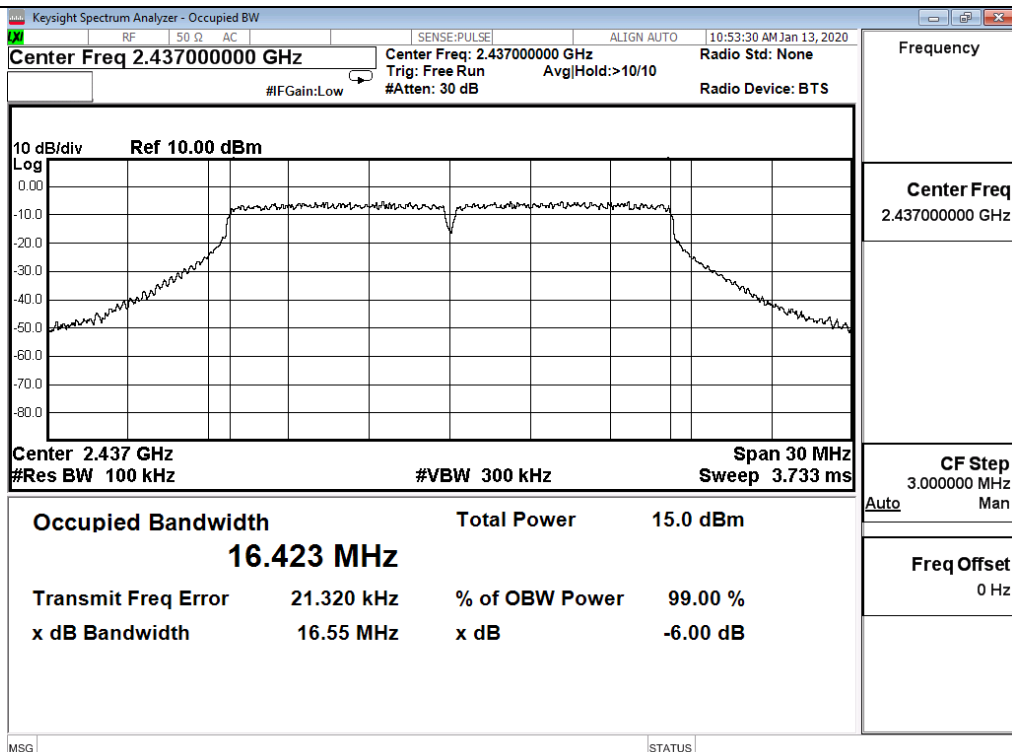
11B/HCH



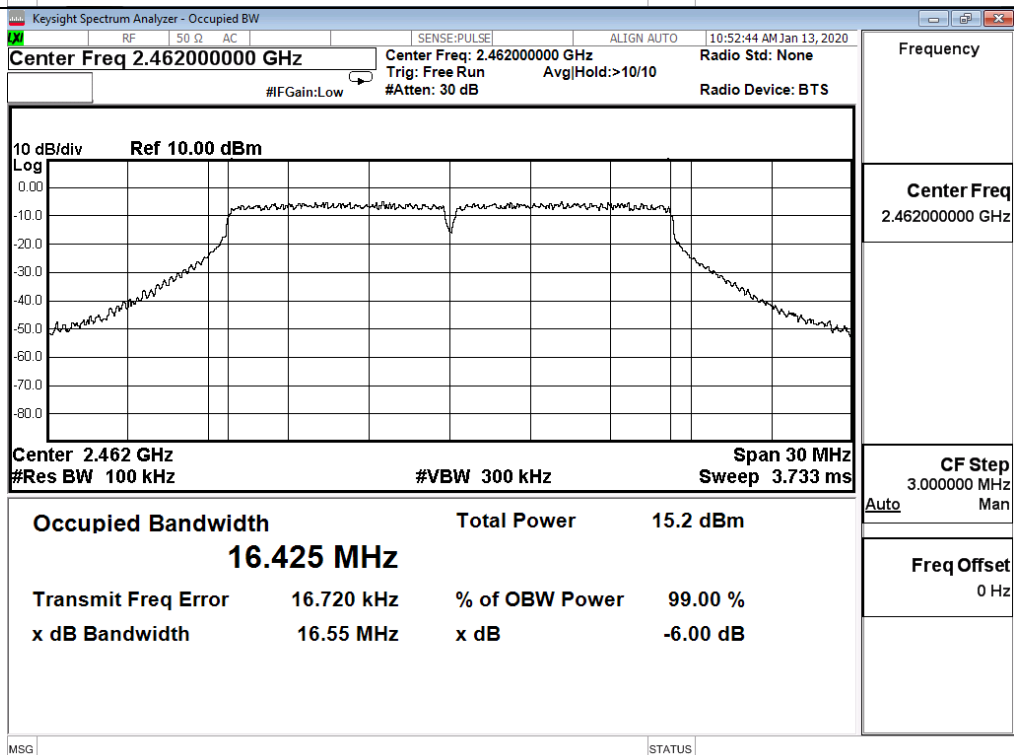
11G/LCH



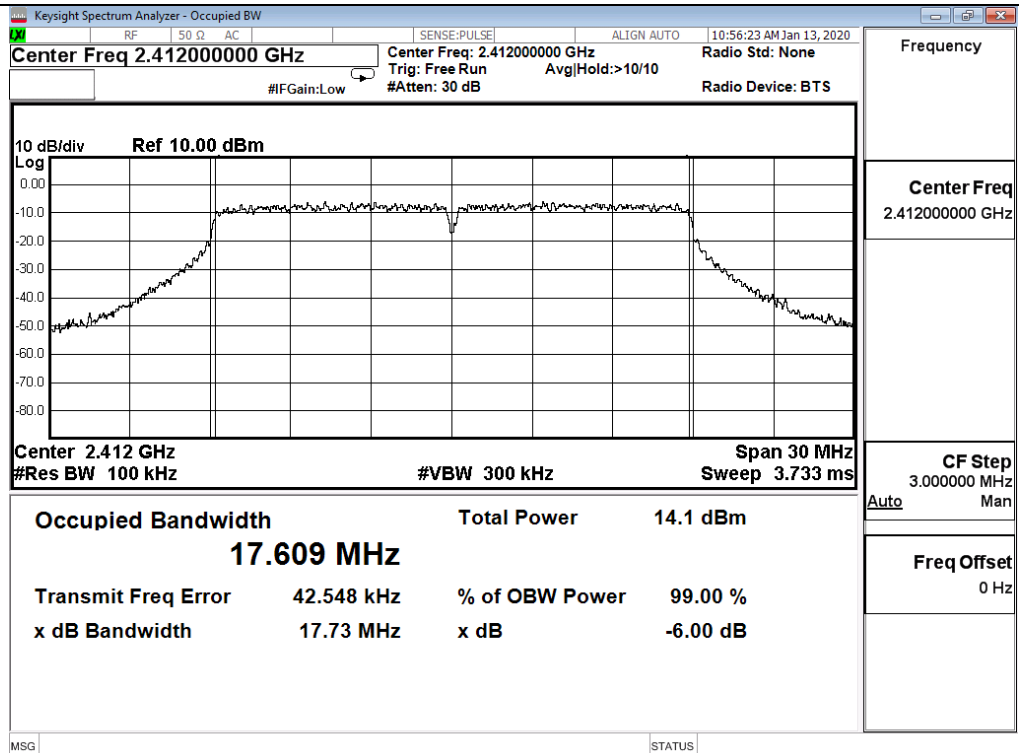
11G/MCH



11G/HCH



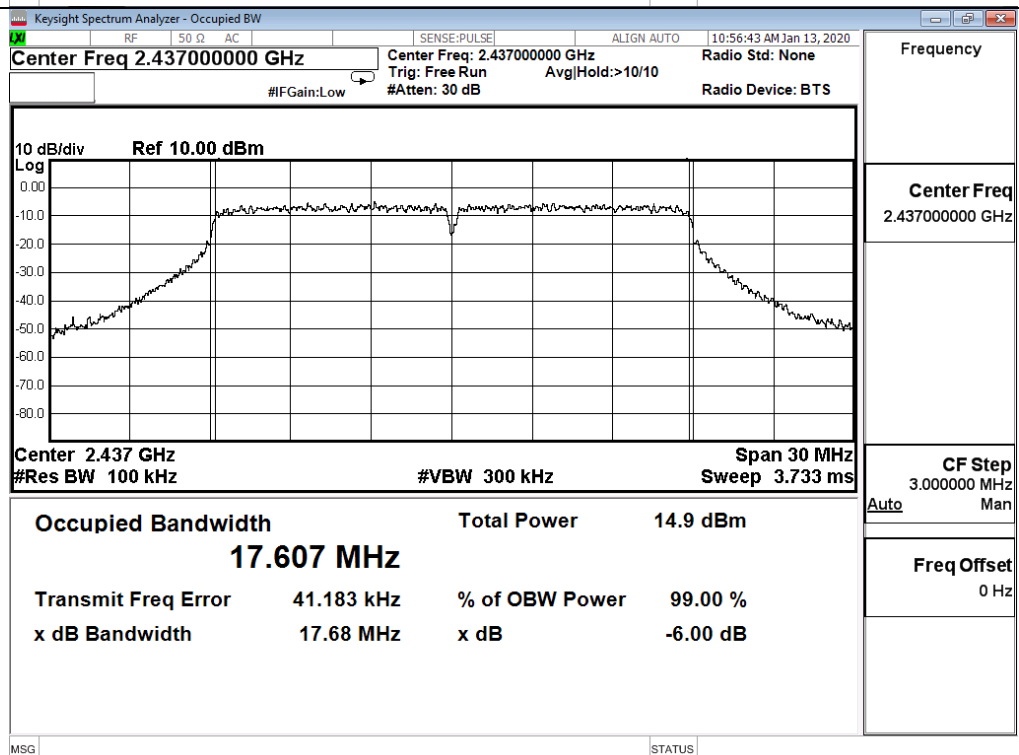
11N20SISO/LCH



Frequency

Center Freq
2.41200000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

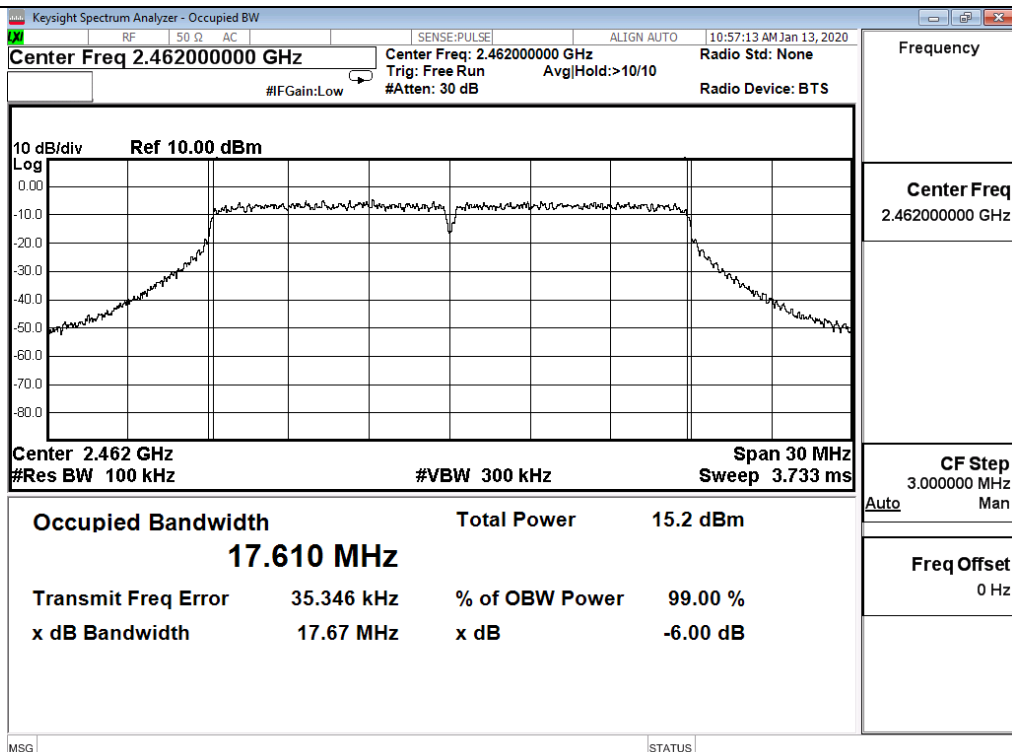
11N20SISO/MCH



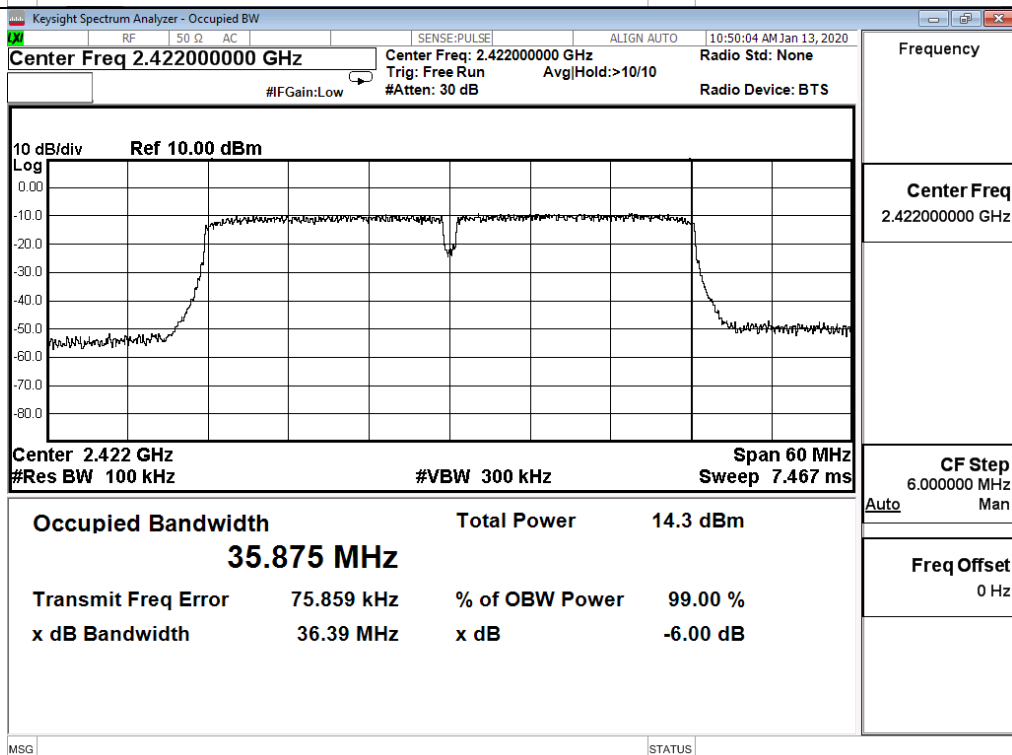
Frequency

Center Freq
2.43700000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

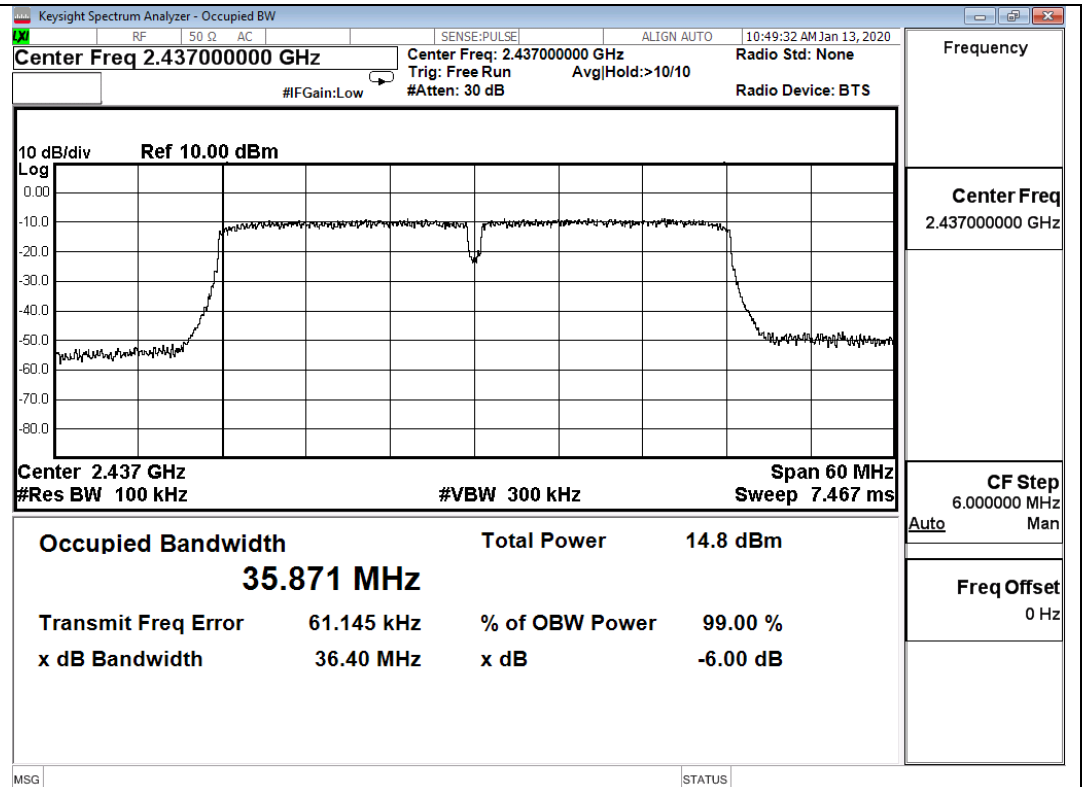
11N20SISO/HCH



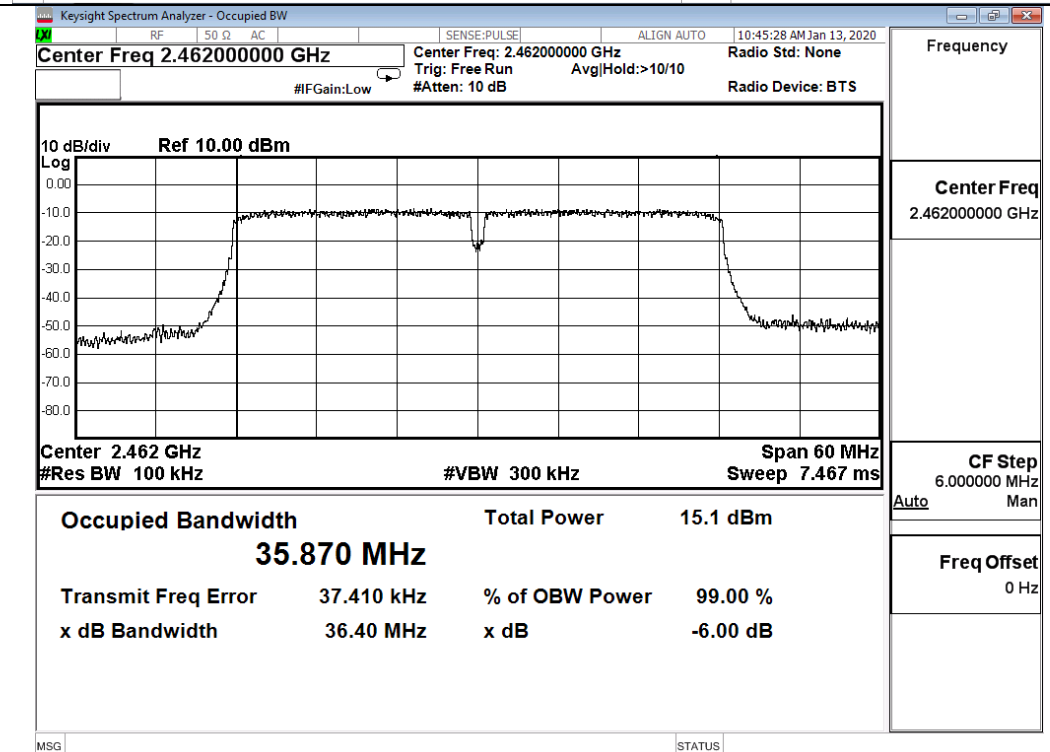
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH

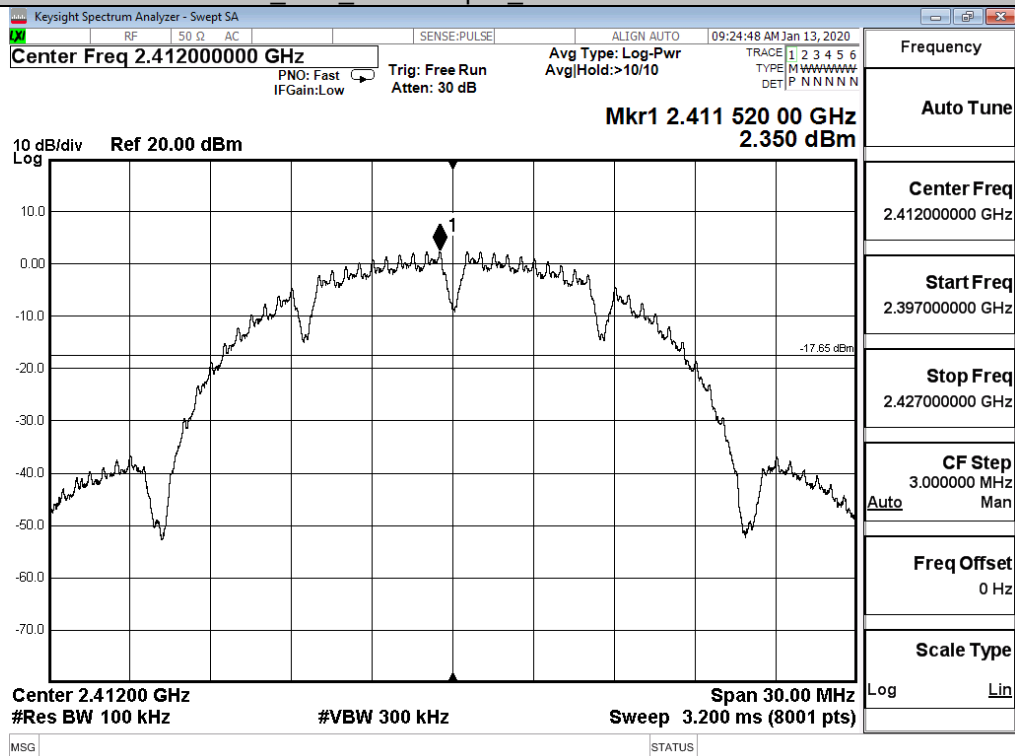


A.4 RF Conducted Spurious Emissions

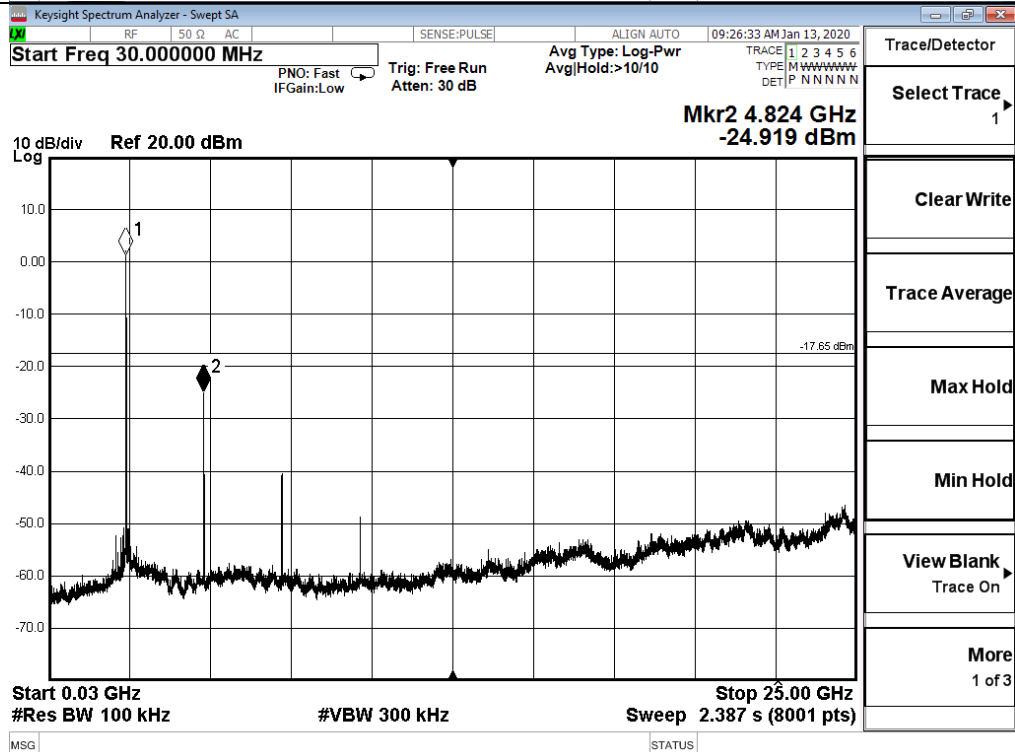
Mode	Channel	Antenna	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	Ant1	2.350	-24.919	-17.65	PASS
	MCH	Ant1	2.562	-27.250	-17.44	PASS
	HCH	Ant1	2.339	-32.736	-17.66	PASS
11G	LCH	Ant1	-5.982	-41.866	-25.98	PASS
	MCH	Ant1	-5.784	-45.975	-28.78	PASS
	HCH	Ant1	-5.869	-48.505	-25.87	PASS
11N20SISO	LCH	Ant1	-5.531	-41.789	-25.53	PASS
	MCH	Ant1	-5.231	-45.085	-25.23	PASS
	HCH	Ant1	-5.724	-48.701	-25.72	PASS
11N40SISO	LCH	Ant1	-8.480	-45.611	-28.48	PASS
	MCH	Ant1	-8.552	-44.751	-28.55	PASS
	HCH	Ant1	-8.598	-47.040	-28.60	PASS
11B	LCH	Ant2	3.313	-21.812	-16.69	PASS
	MCH	Ant2	4.013	-23.199	-15.99	PASS
	HCH	Ant2	4.408	-22.669	-15.59	PASS
11G	LCH	Ant2	-5.169	-41.297	-25.17	PASS
	MCH	Ant2	-4.838	-38.959	-24.84	PASS
	HCH	Ant2	-4.209	-37.285	-24.21	PASS
11N20SISO	LCH	Ant2	-4.949	-43.158	-24.95	PASS
	MCH	Ant2	-4.151	-38.779	-24.15	PASS
	HCH	Ant2	-3.816	-40.899	-23.82	PASS
11N40SISO	LCH	Ant2	-7.440	-35.065	-27.44	PASS
	MCH	Ant2	-6.872	-36.510	-26.87	PASS
	HCH	Ant2	-6.868	-35.802	-26.87	PASS

11B_LCH_Test Graphs_Ant1

Pref/11B/LCH

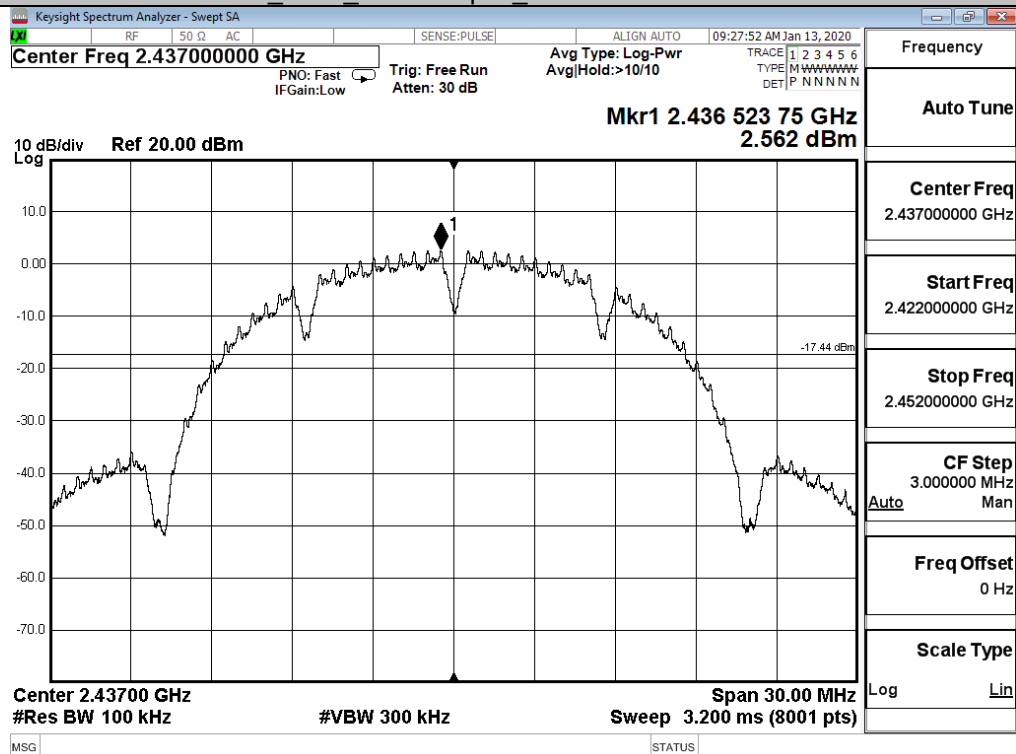


Puw/11B/LCH

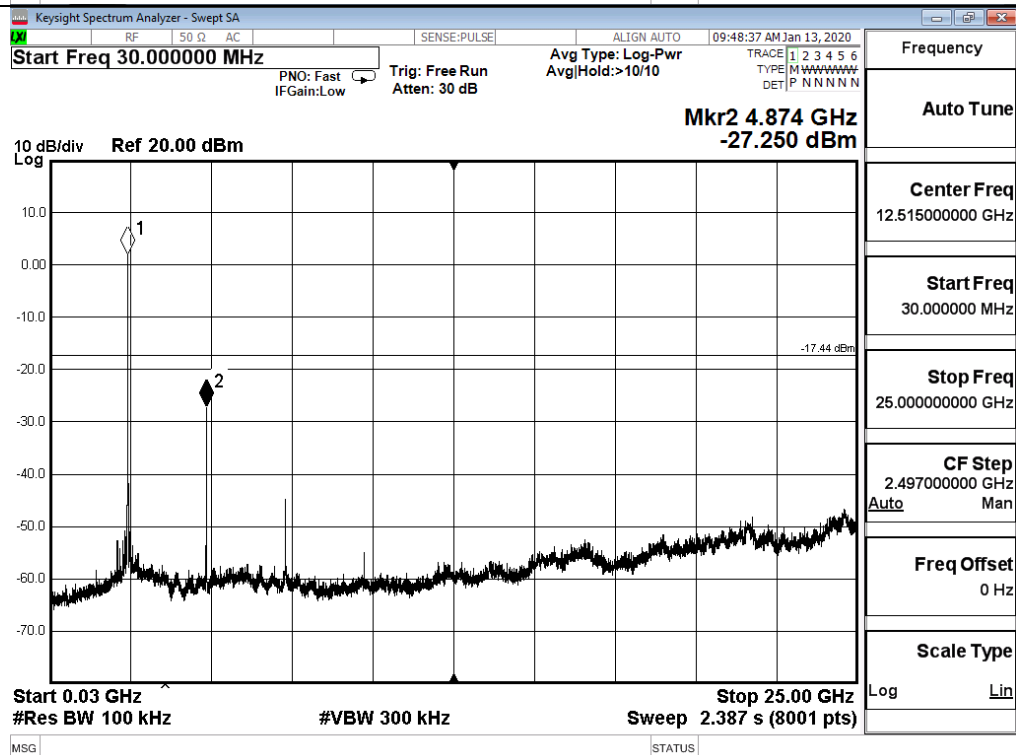


11B_MCH_Test Graphs_Ant1

Pref/11B/MCH

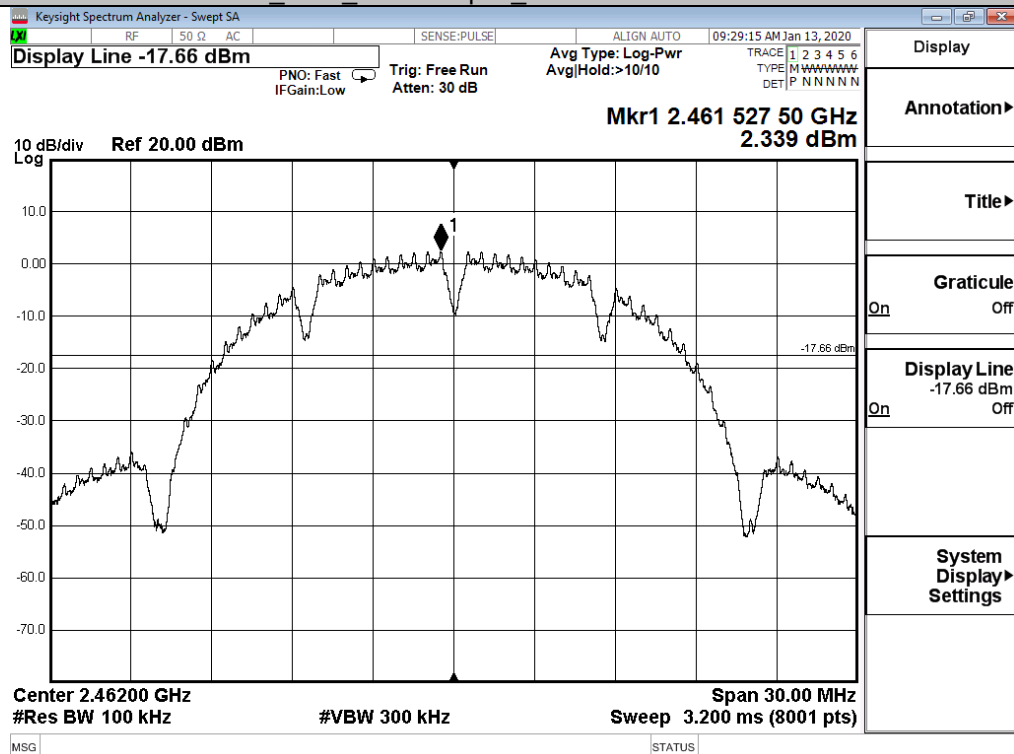


Puw/11B/MCH

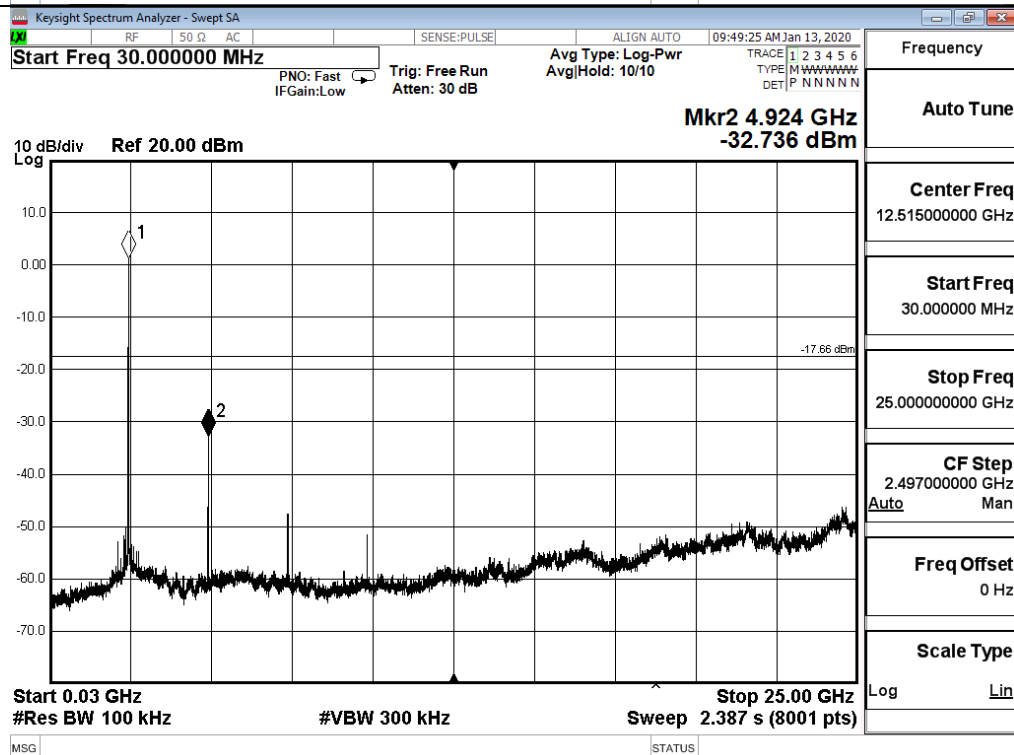


11B_HCH Test Graphs_Ant1

Pref/11B/HCH

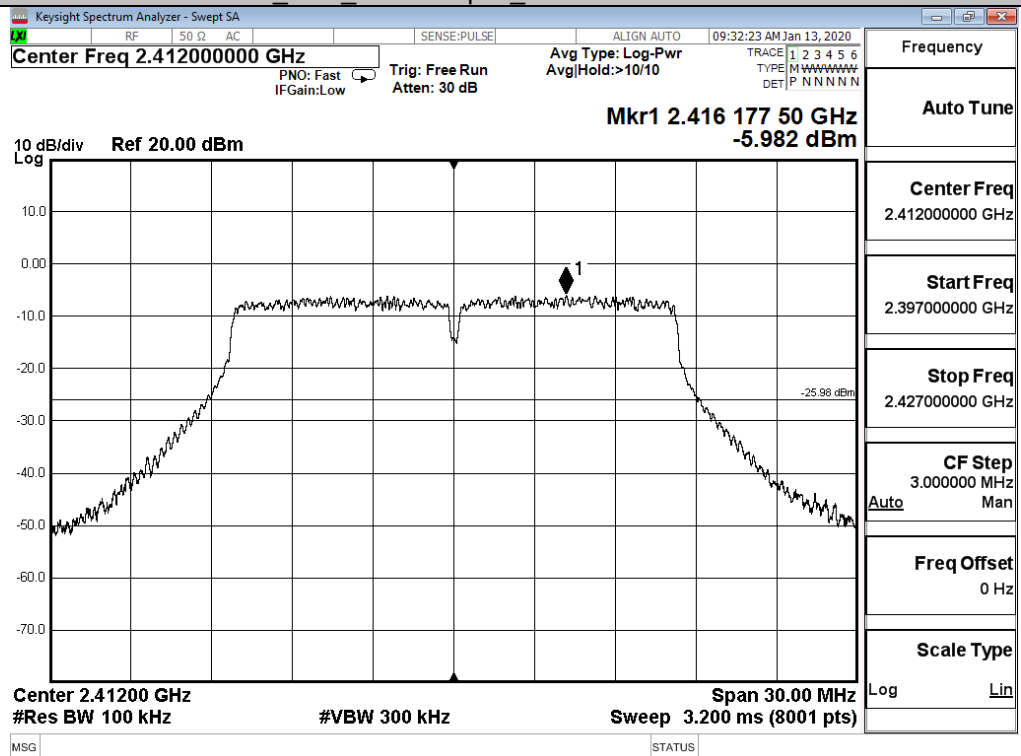


Puw/11B/HCH

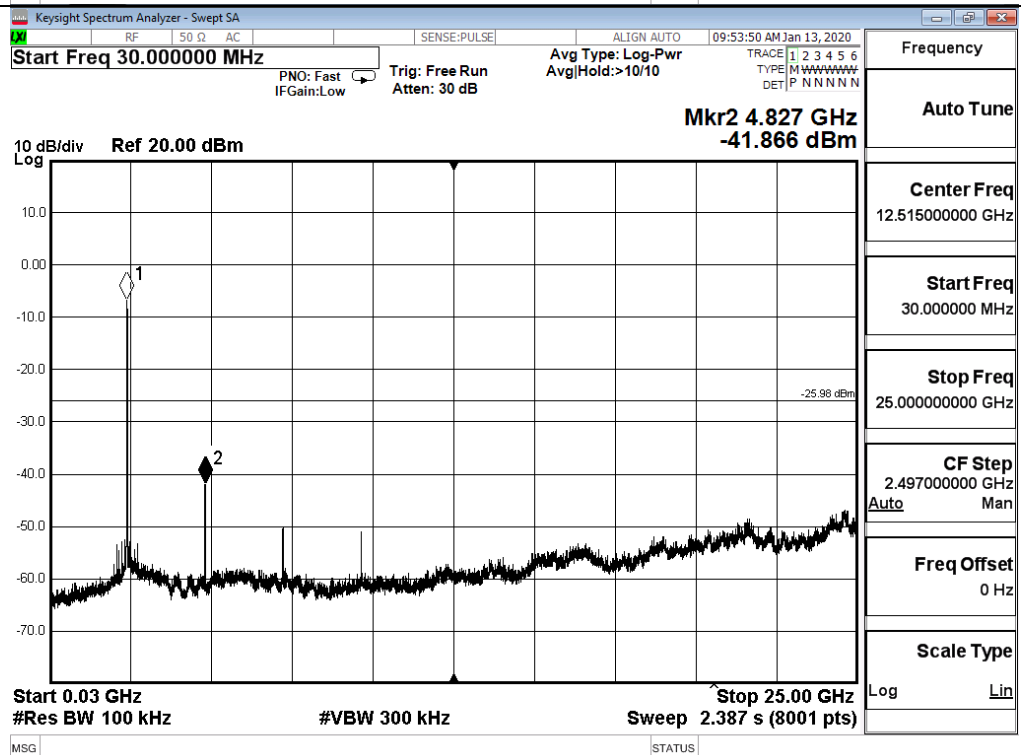


11G_LCH_Test Graphs_Ant1

Pref/11G/LCH

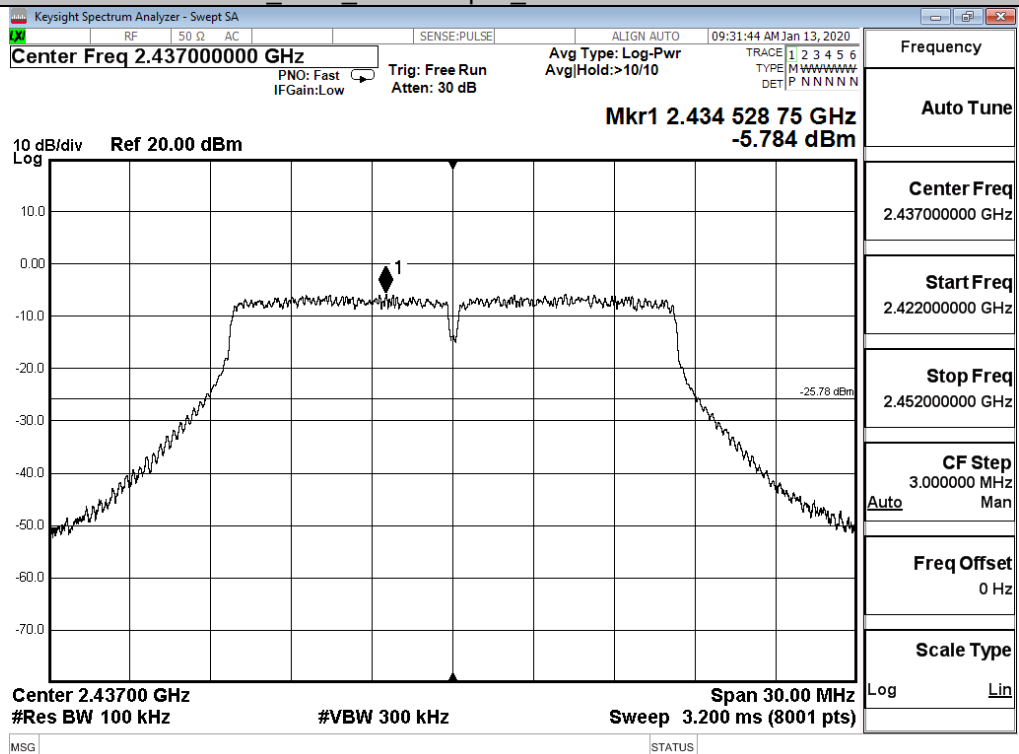


Puw/11G/LCH

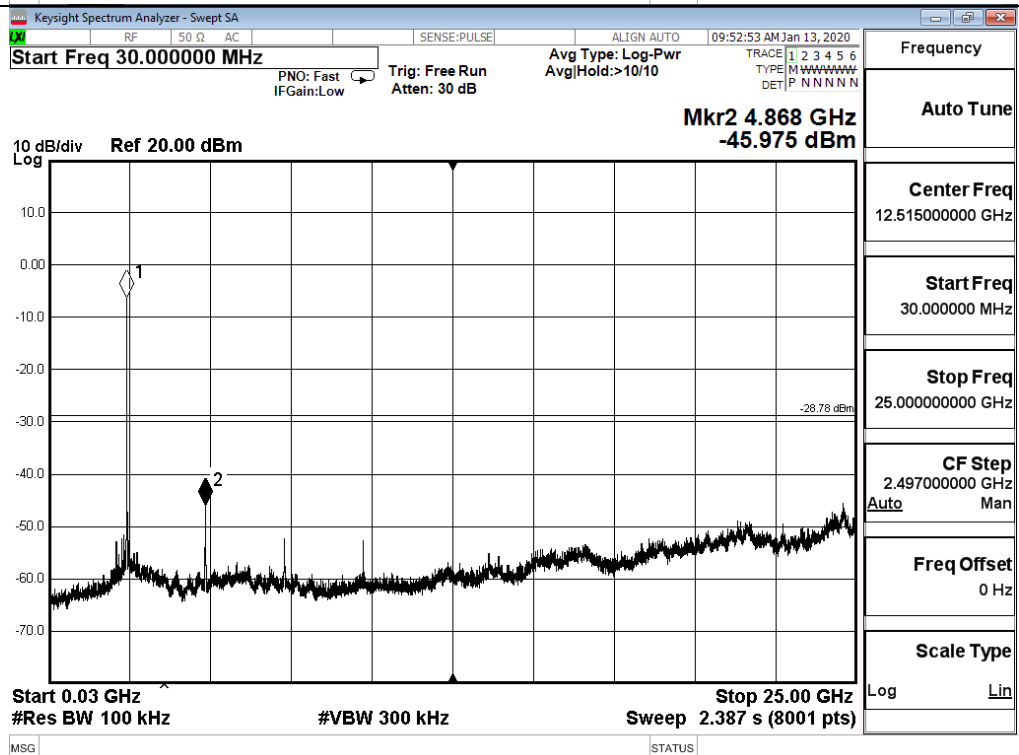


11G_MCH_Test Graphs_Ant1

Pref/11G/MCH

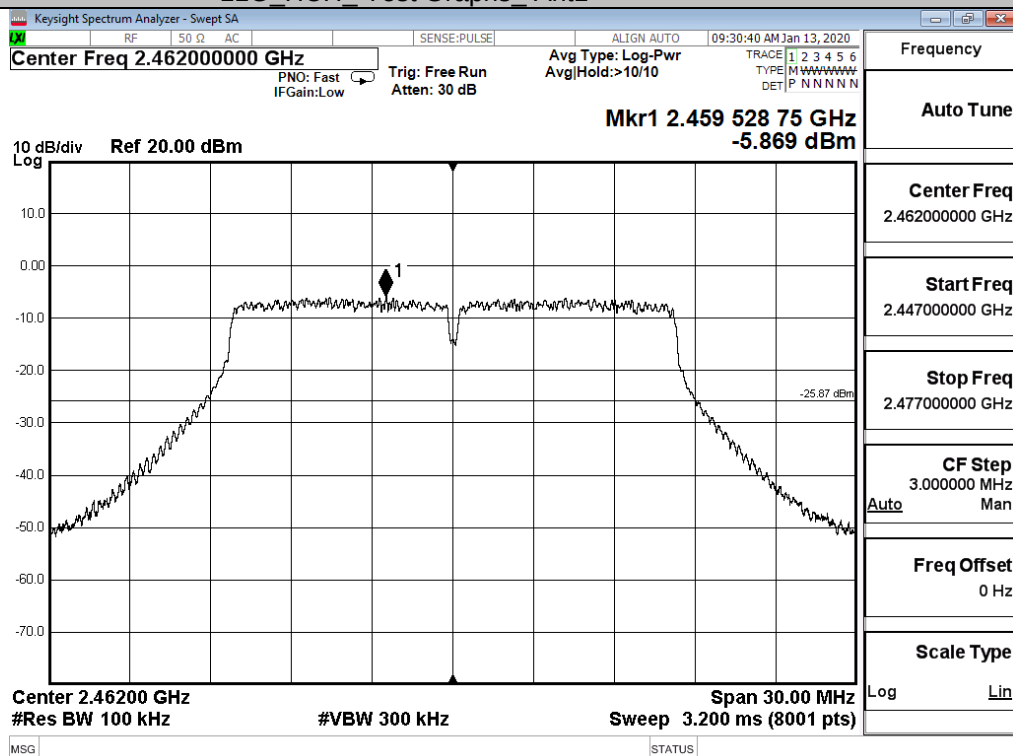


Puw/11G/MCH

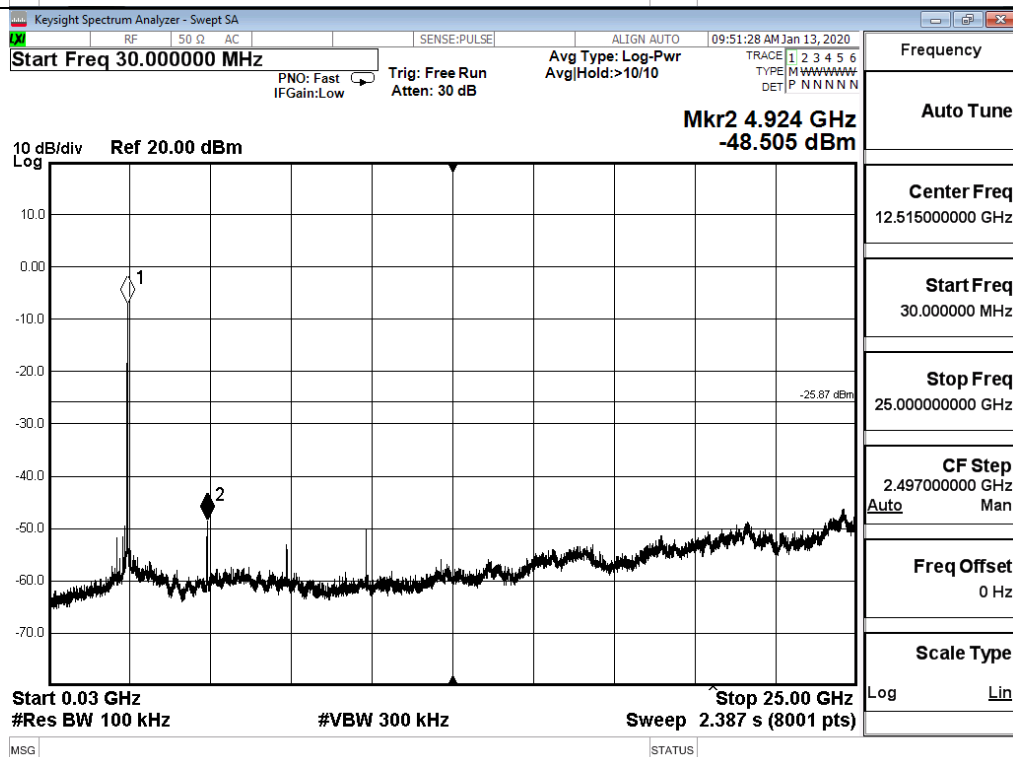


11G_HCH_Test Graphs_Ant1

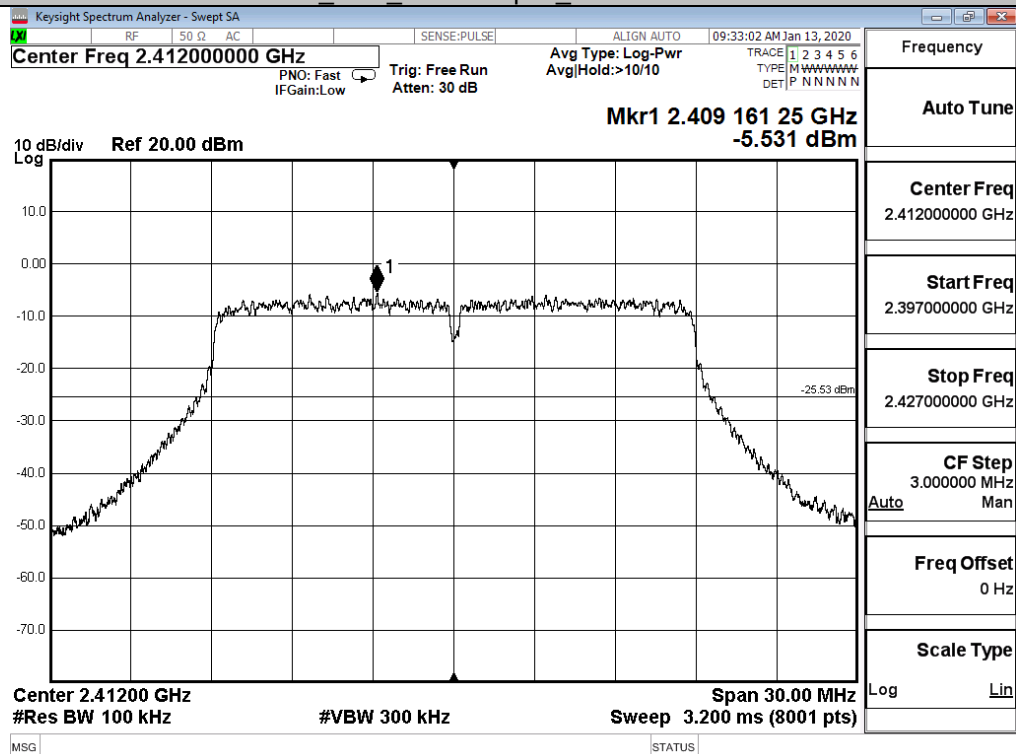
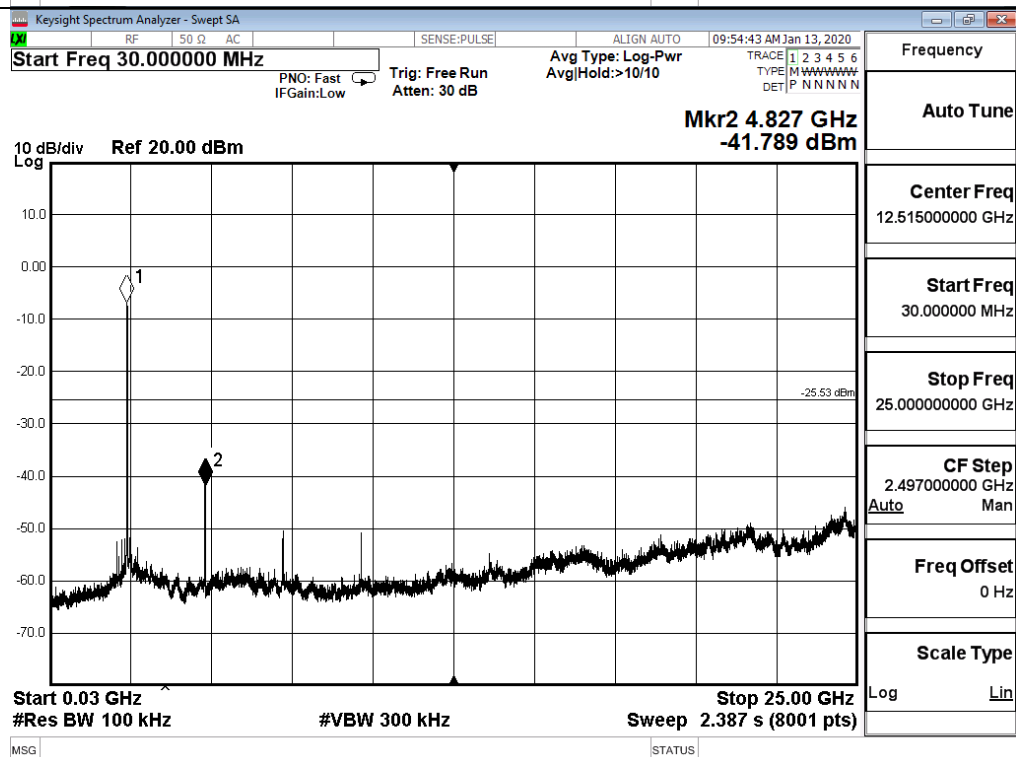
Pref/11G/HCH



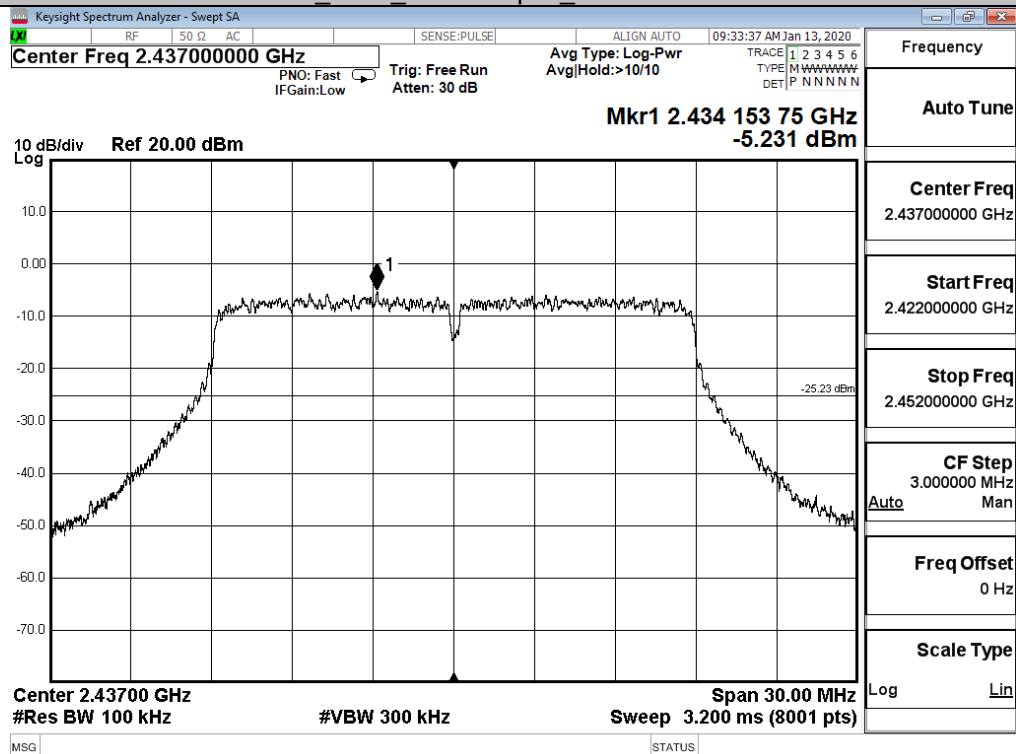
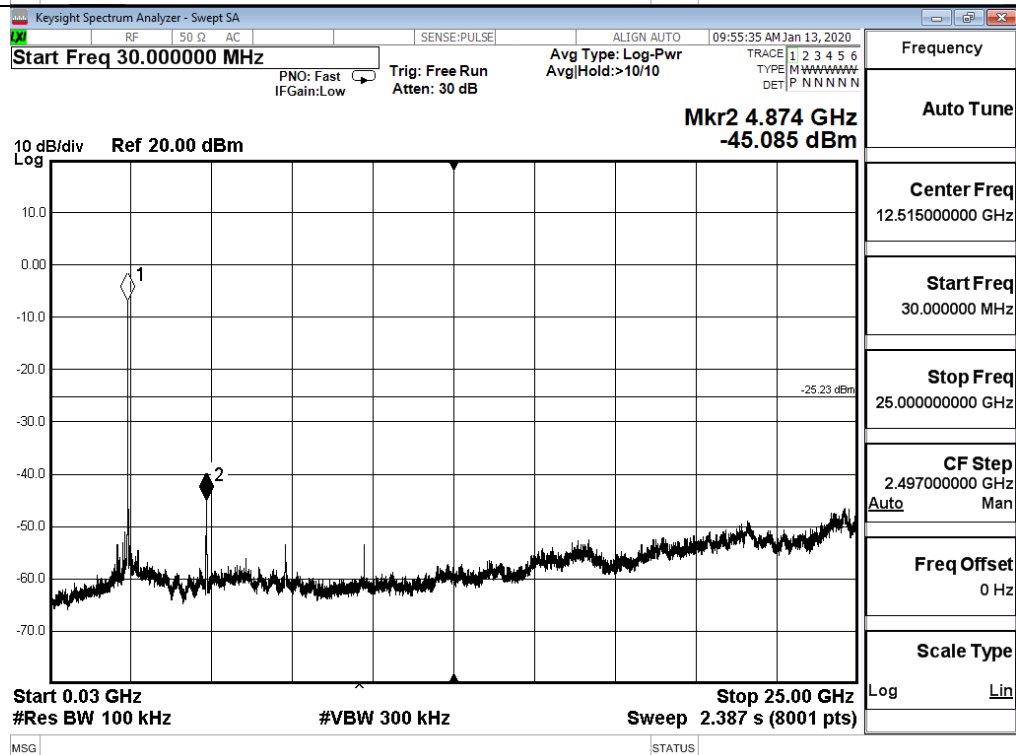
Puw/11G/HCH



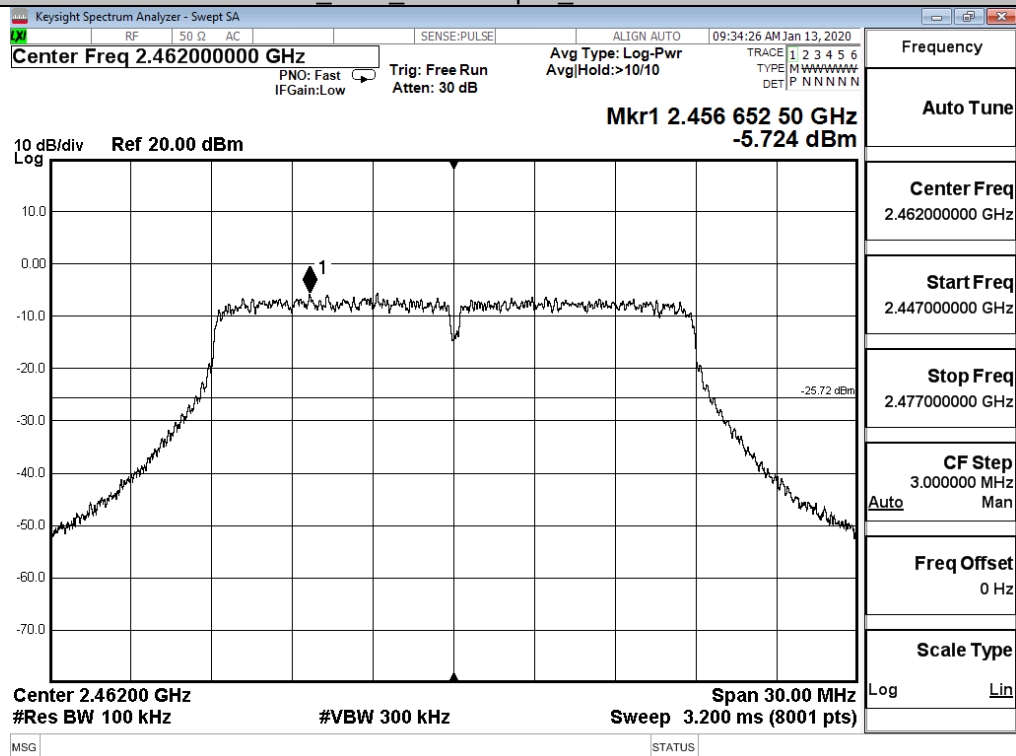
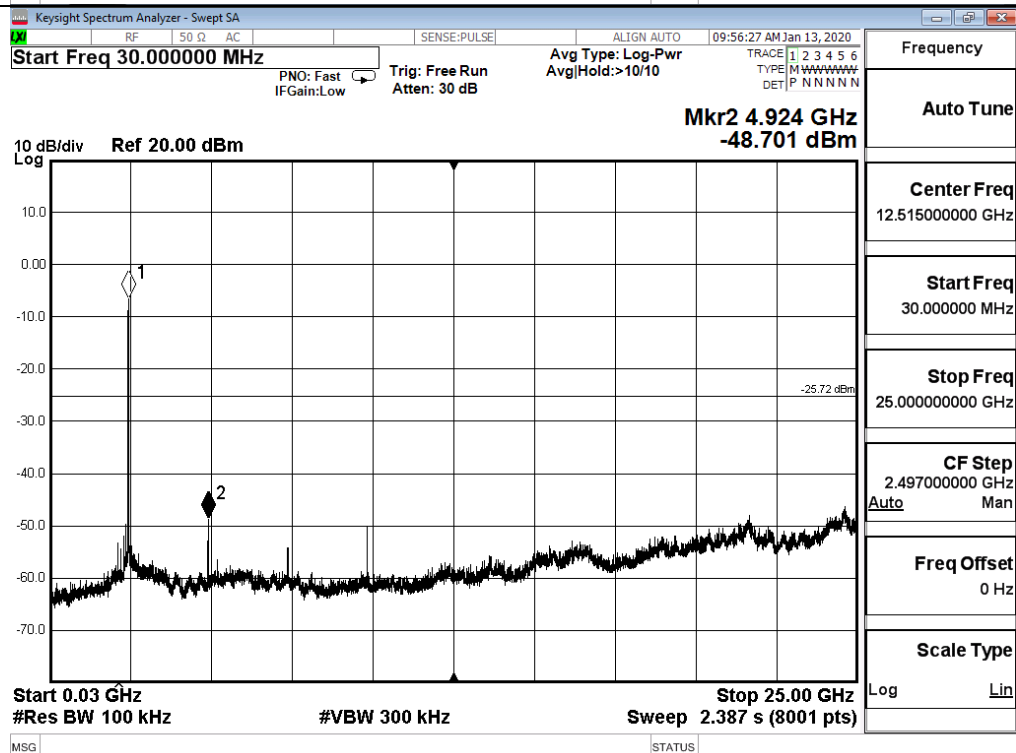
11N20SISO_LCH_Test Graphs_Ant1

Pref/11N20SIS
O/LCHPuw/11N20
SISO/LCH

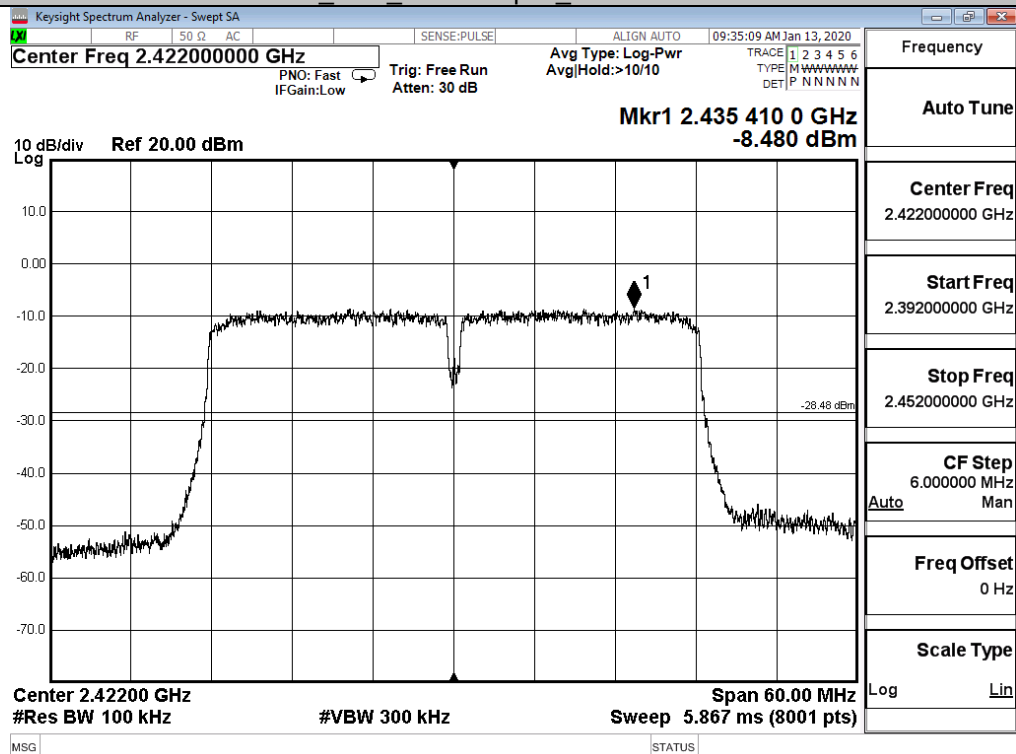
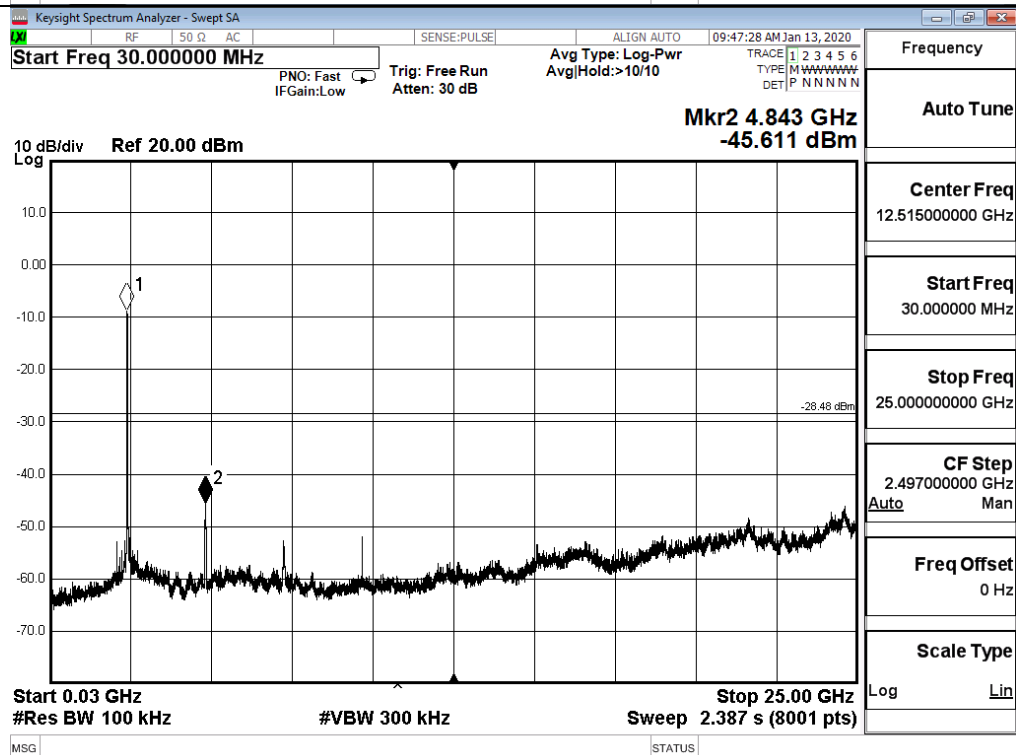
11N20SISO_MCH Test Graphs_Ant1

Pref/11N20
SISO/MCHPuw/11N20
SISO/MCH

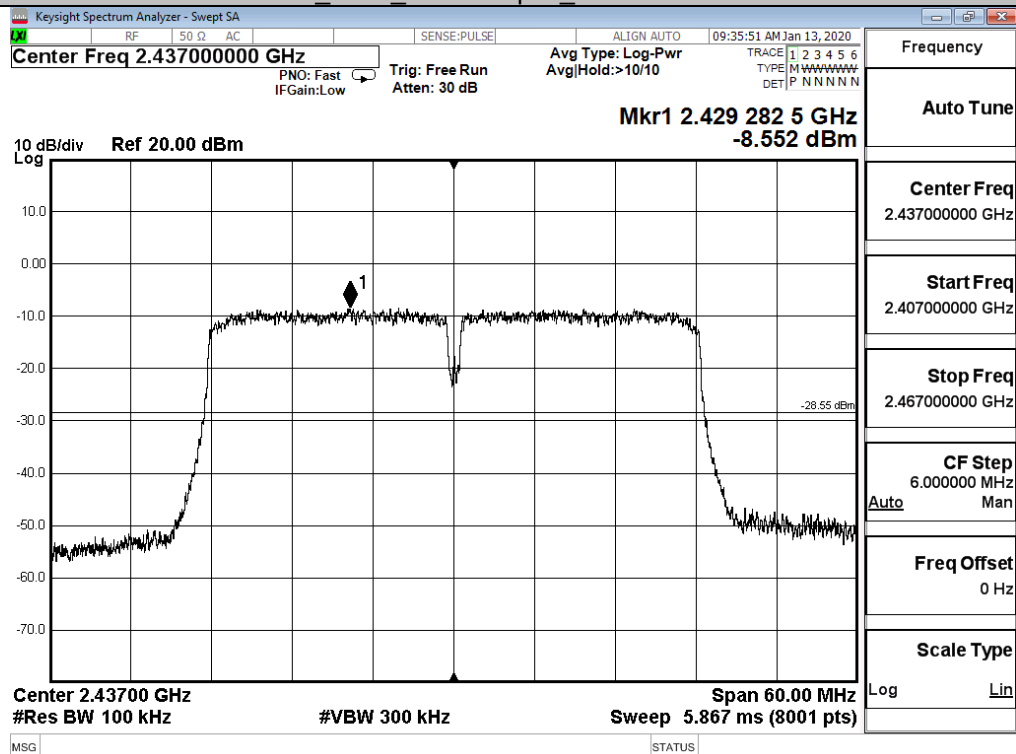
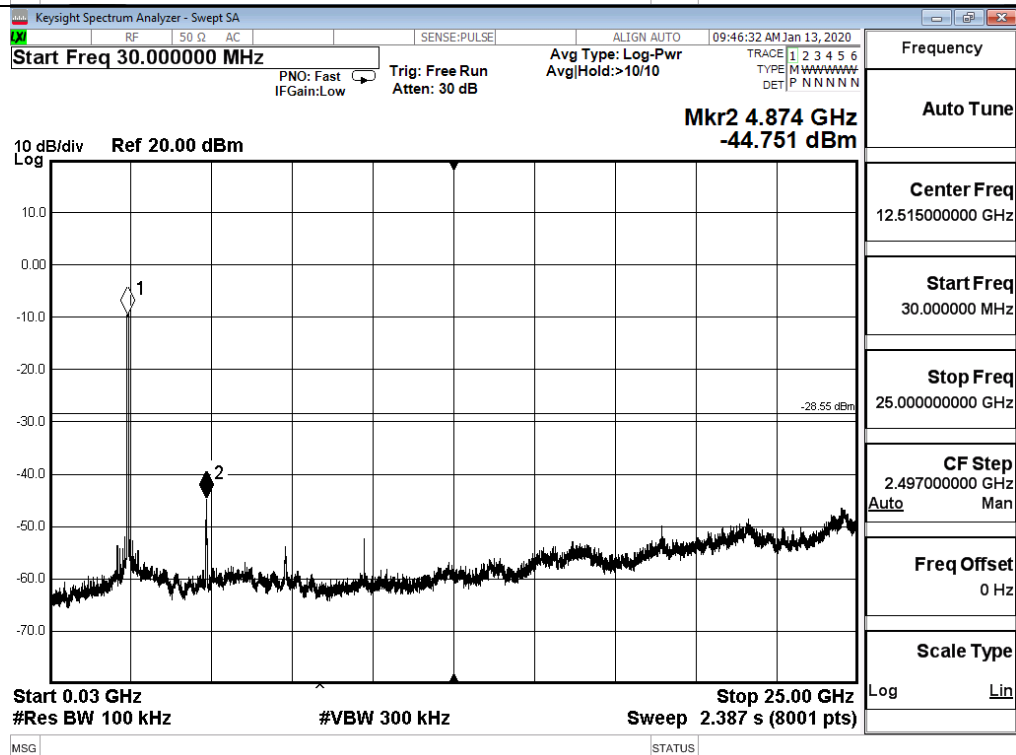
11N20SISO_HCH_Test Graphs_Ant1

Pref/11N20
SISO/HCHPuw/11N20
SISO/HCH

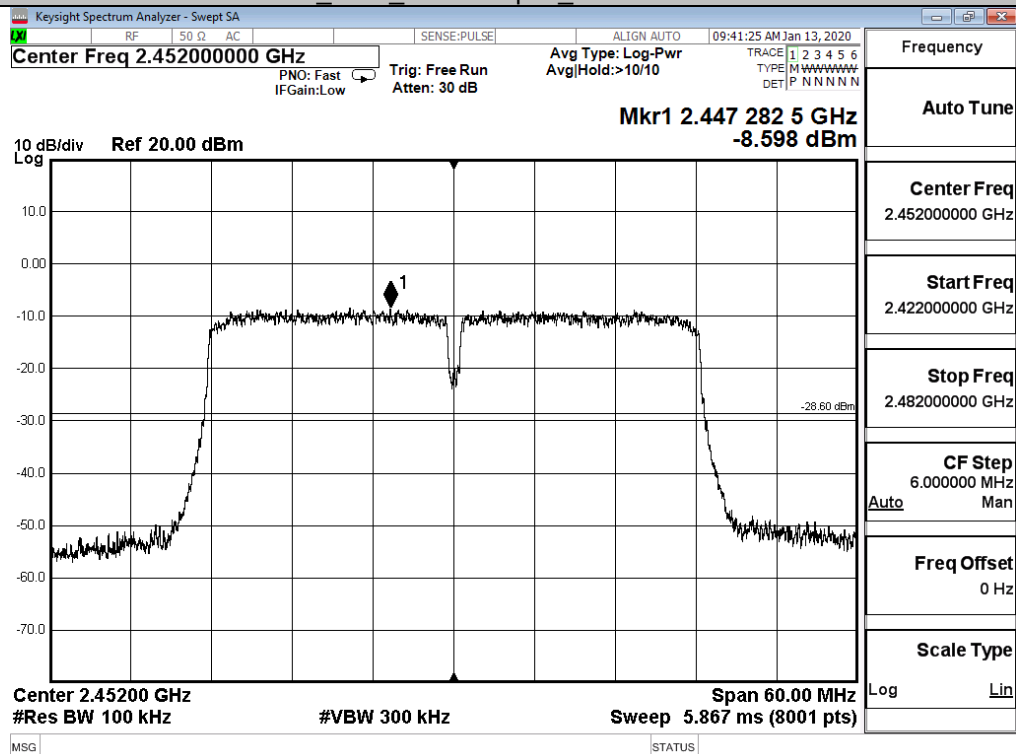
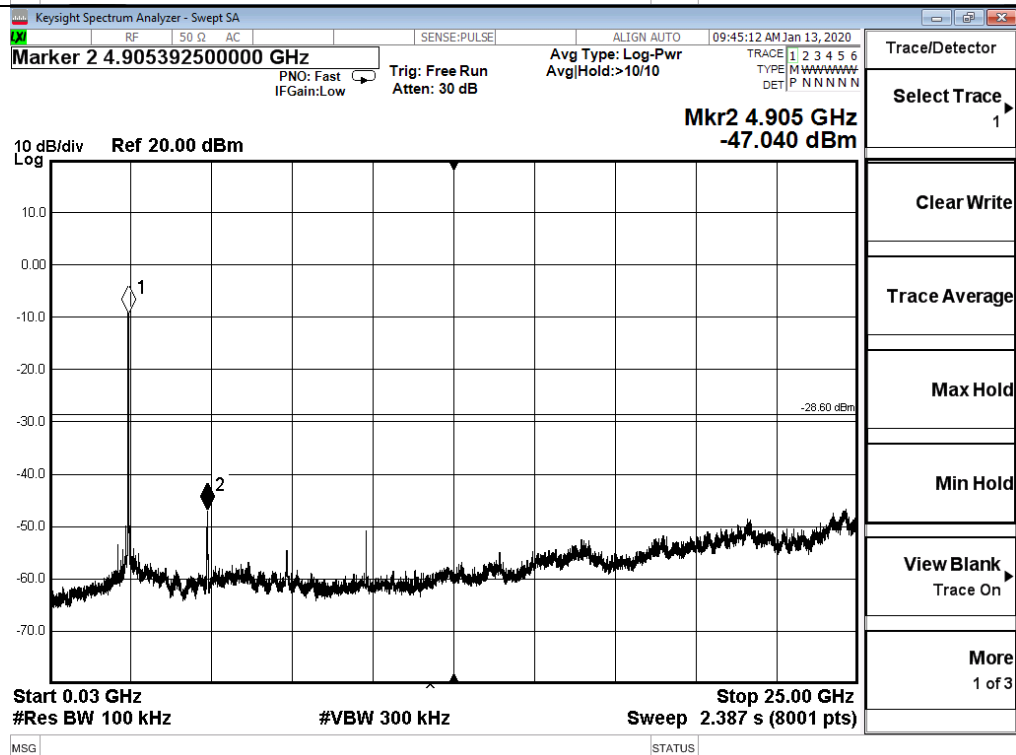
11N40SISO_LCH_Test Graphs_Ant1

Pref/11N40
SISO/LCHPuw/11N40
SISO/LCH

11N40SISO_MCH Test Graphs_Ant1

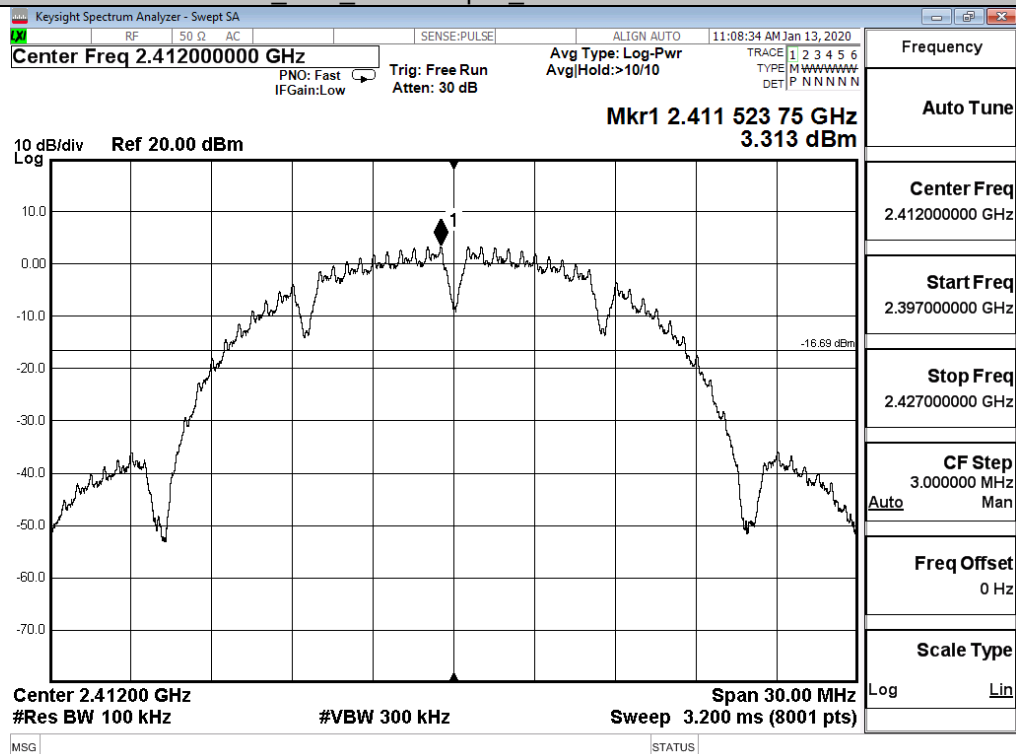
Pref/11N40
SISO/MCHPuw/11N40
SISO/MCH

11N40SISO_HCH_Test Graphs_Ant1

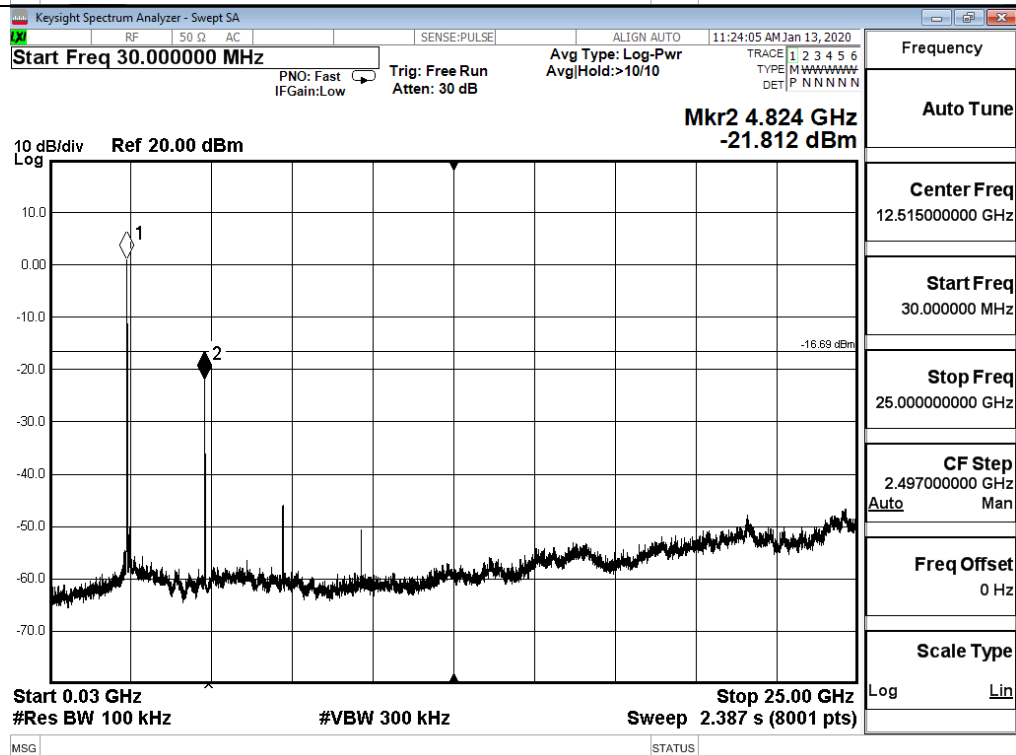
Pref/11N40
SISO/HCHPuw/11N40
SISO/HCH

11B_LCH_Test Graphs_Ant2

Pref/11B/LCH

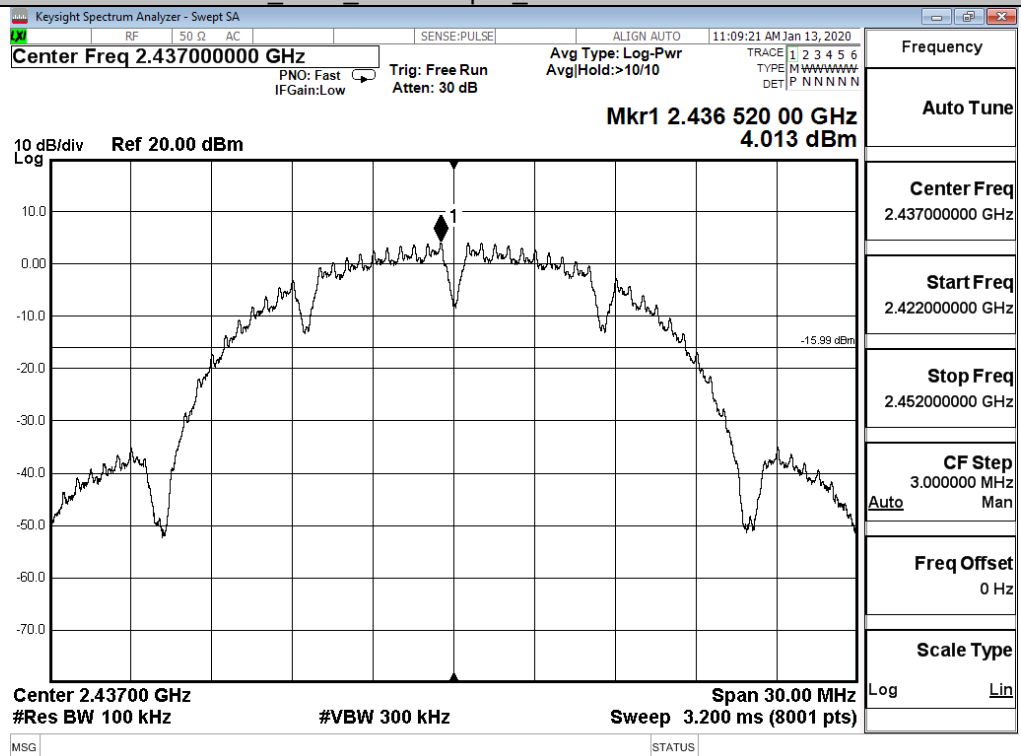


Puw/11B/LCH

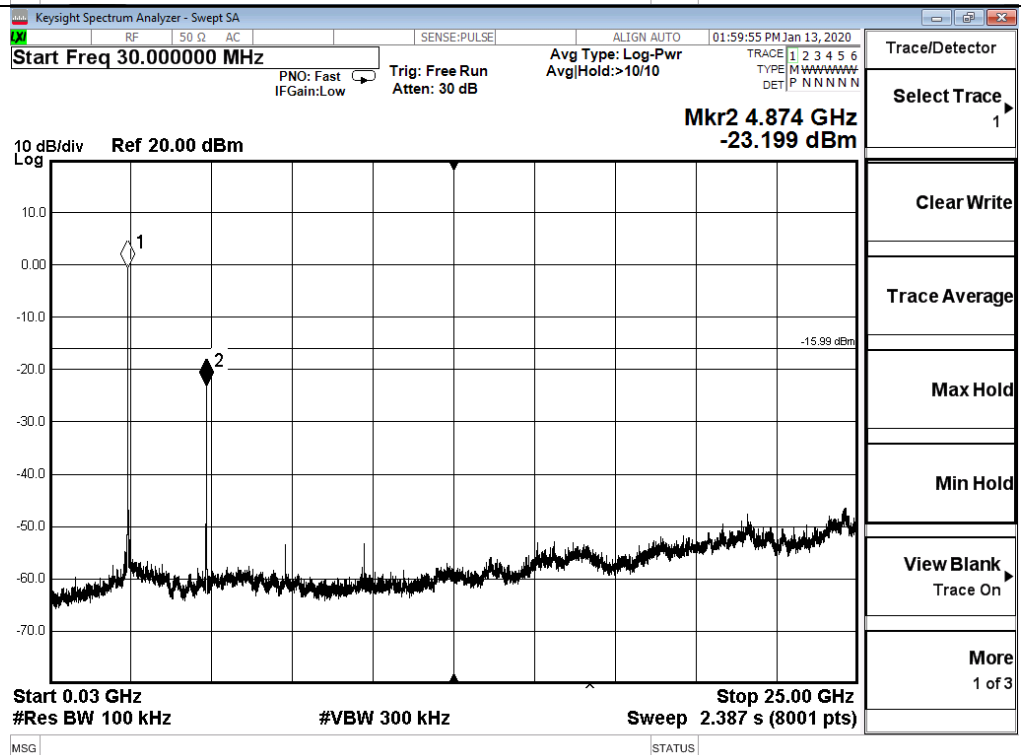


11B_MCH_Test Graphs_Ant2

Pref/11B/MCH

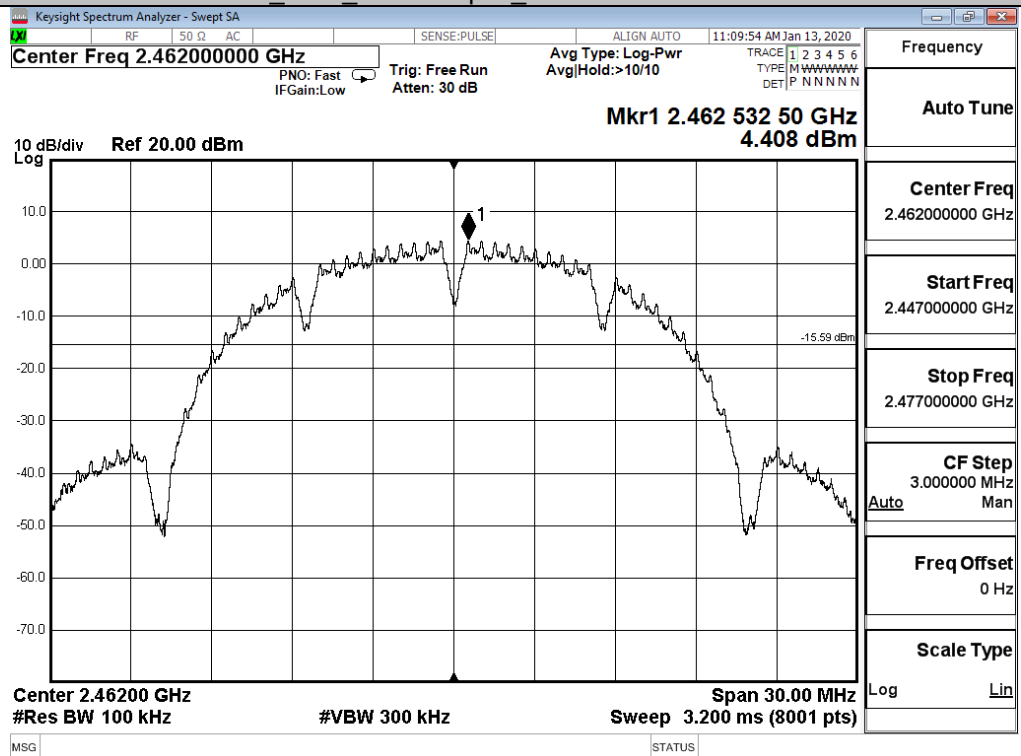


Puw/11B/MCH

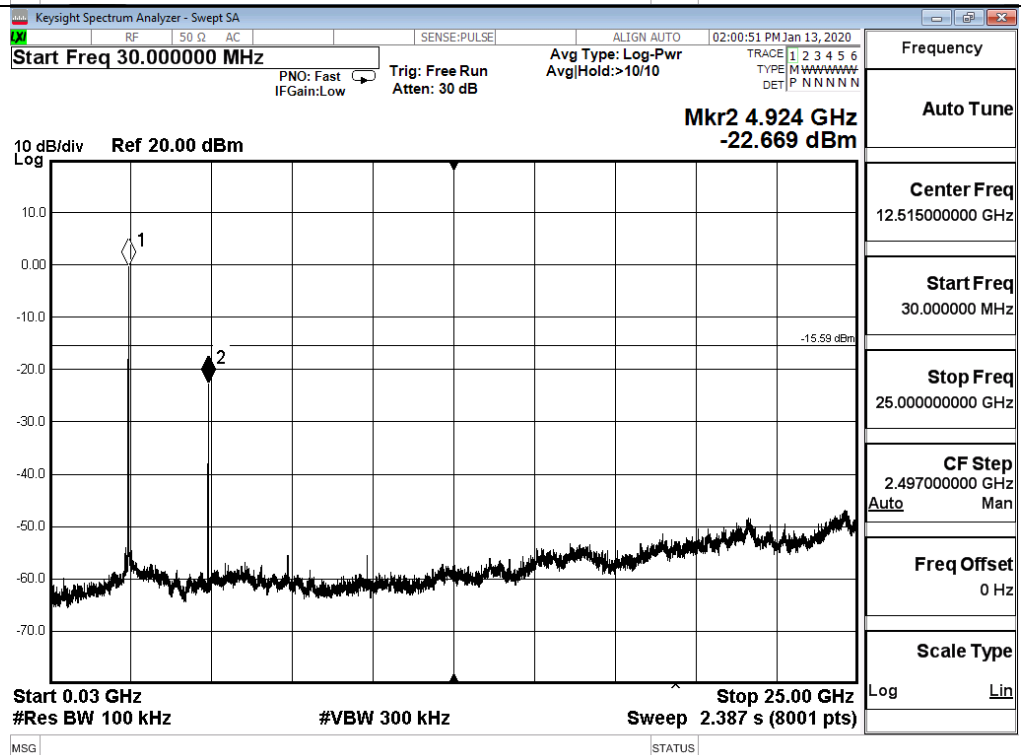


11B_HCH Test Graphs_Ant2

Pref/11B/HCH

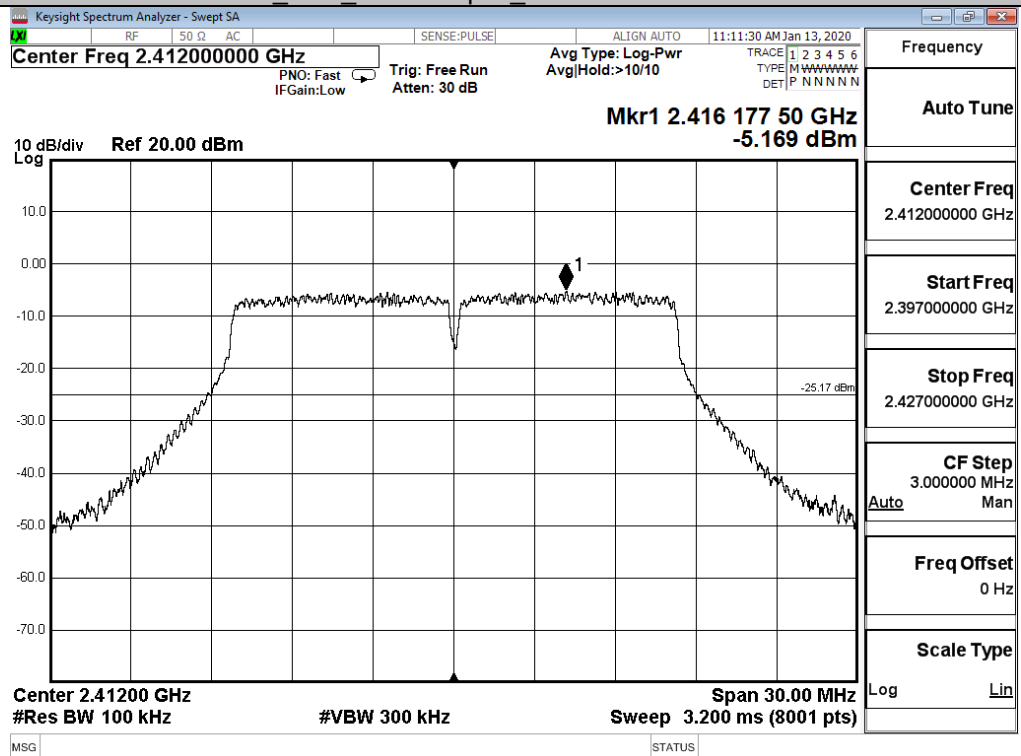


Puw/11B/HCH

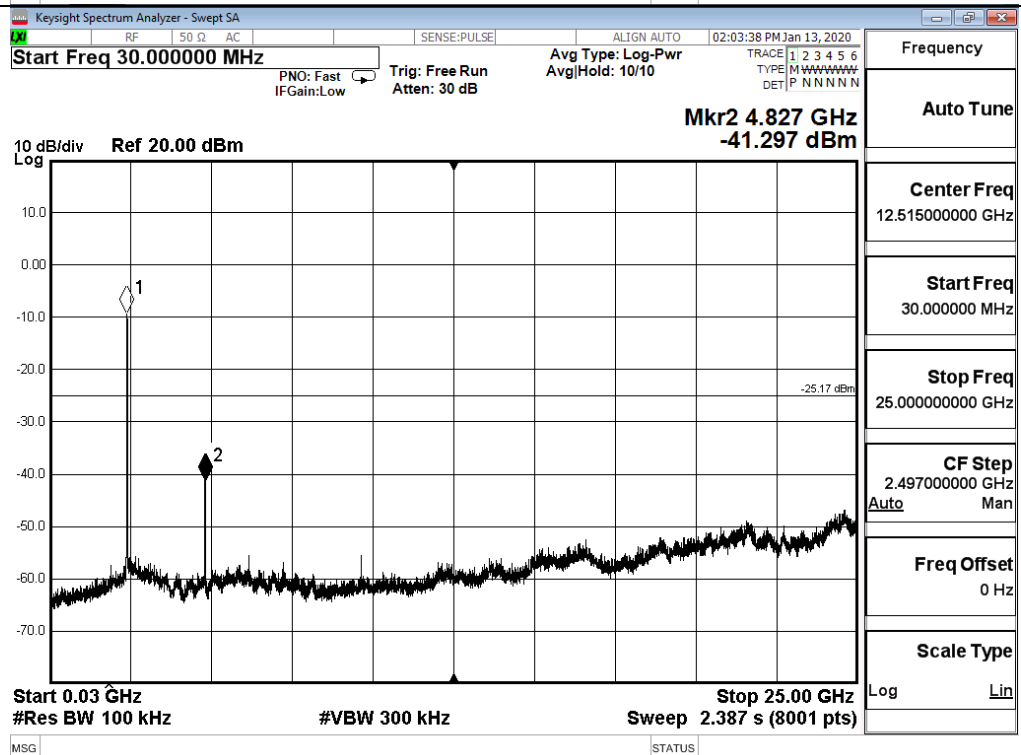


11G_LCH_Test Graphs_Ant2

Pref/11G/LCH

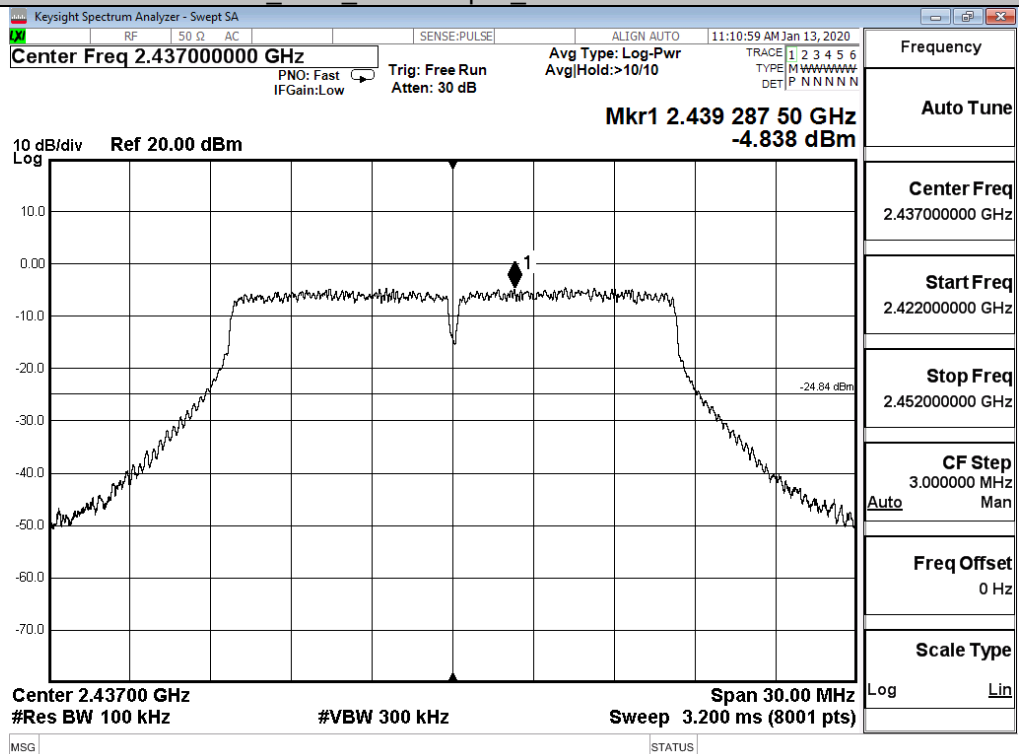


Puw/11G/LCH

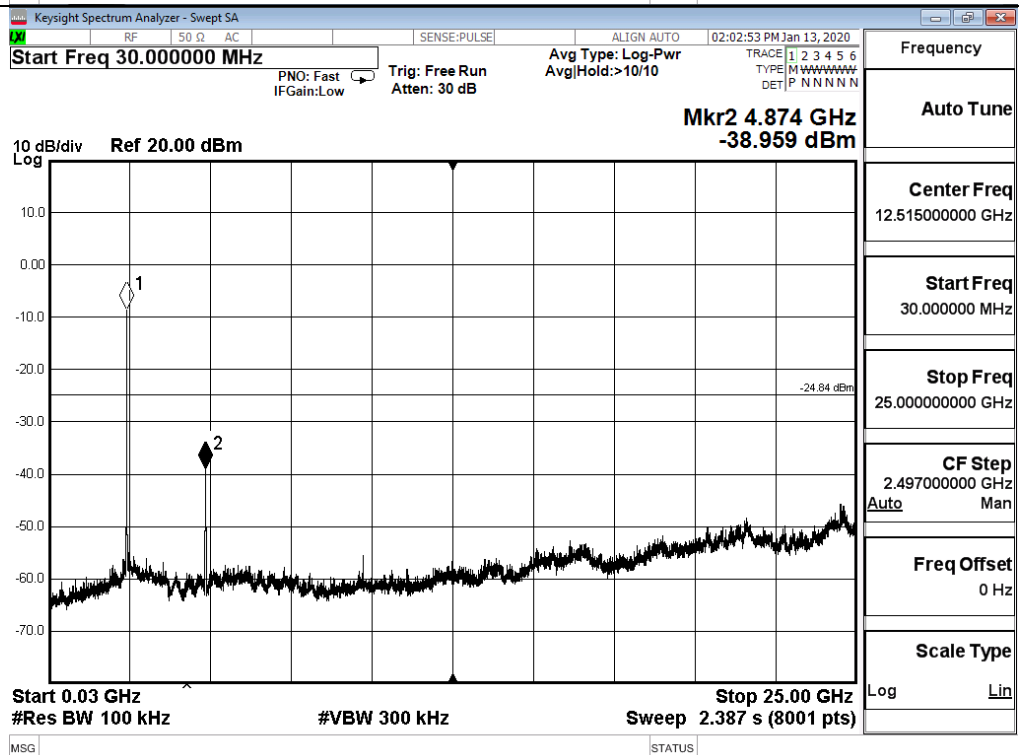


11G_MCH_Test Graphs_Ant2

Pref/11G/MCH

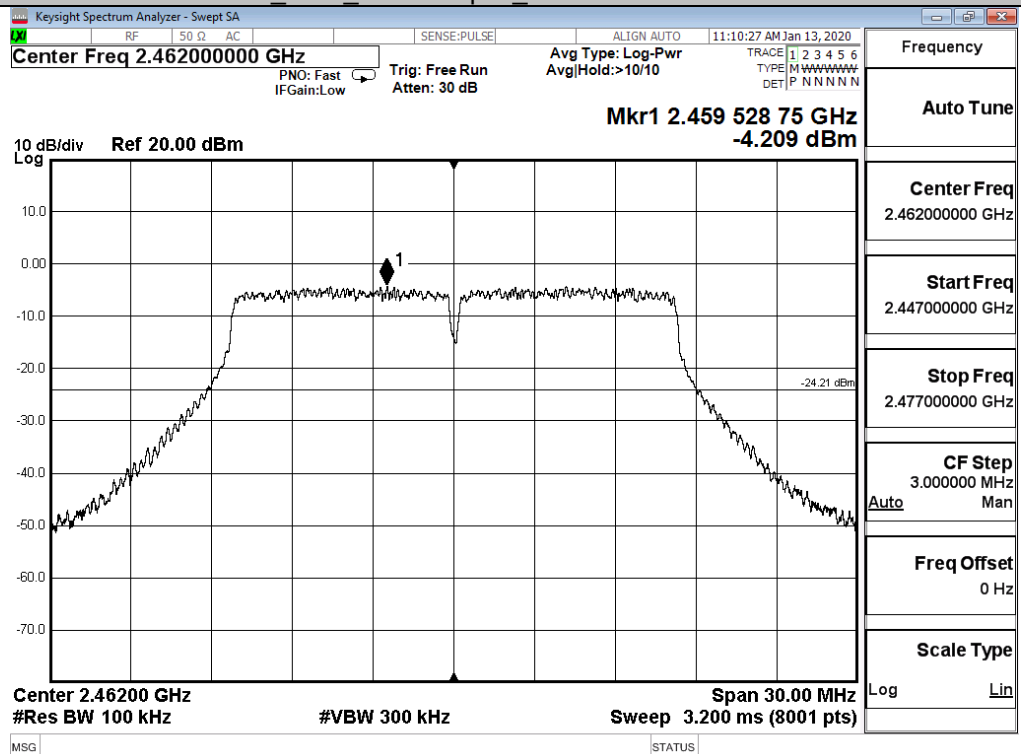


Puw/11G/MCH

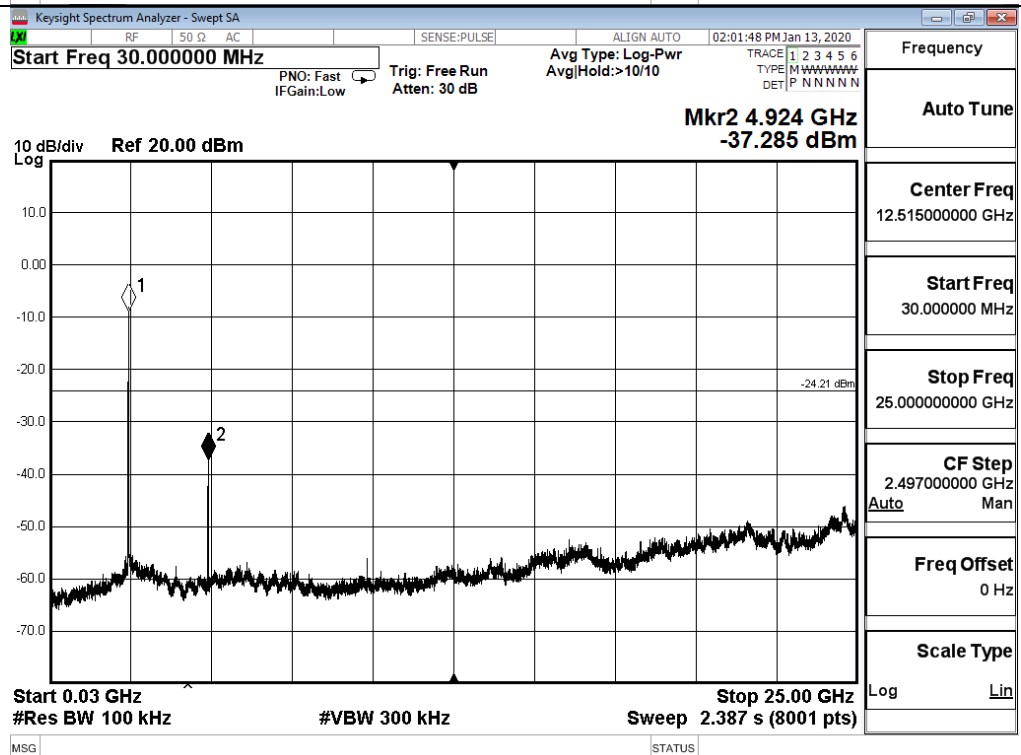


11G_HCH_Test Graphs_Ant2

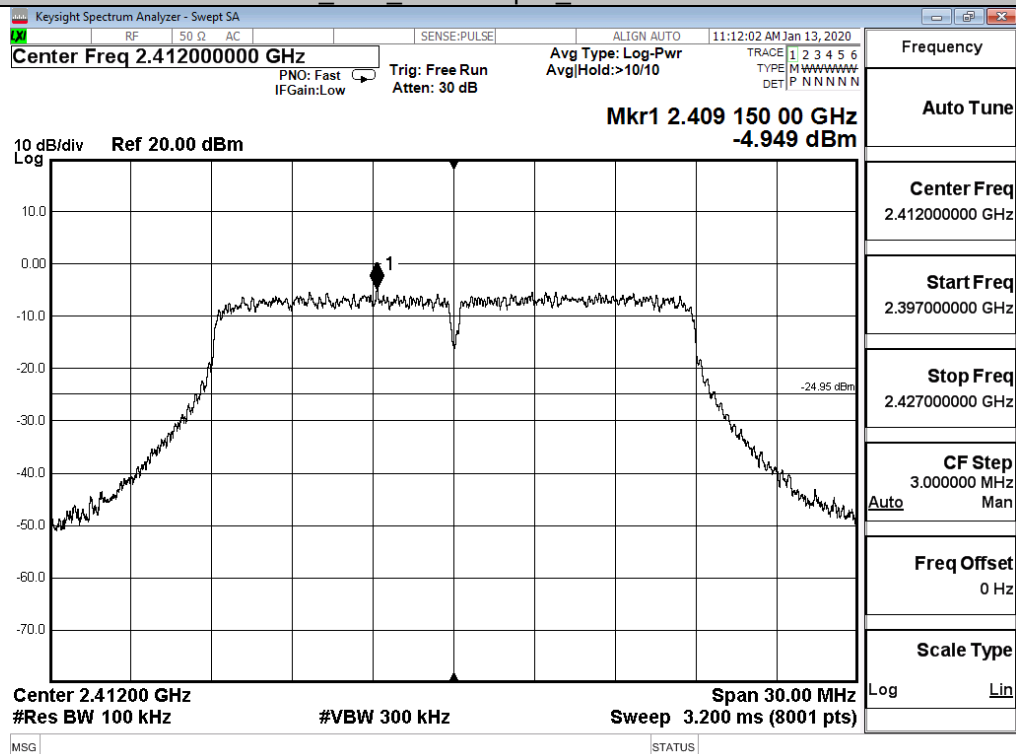
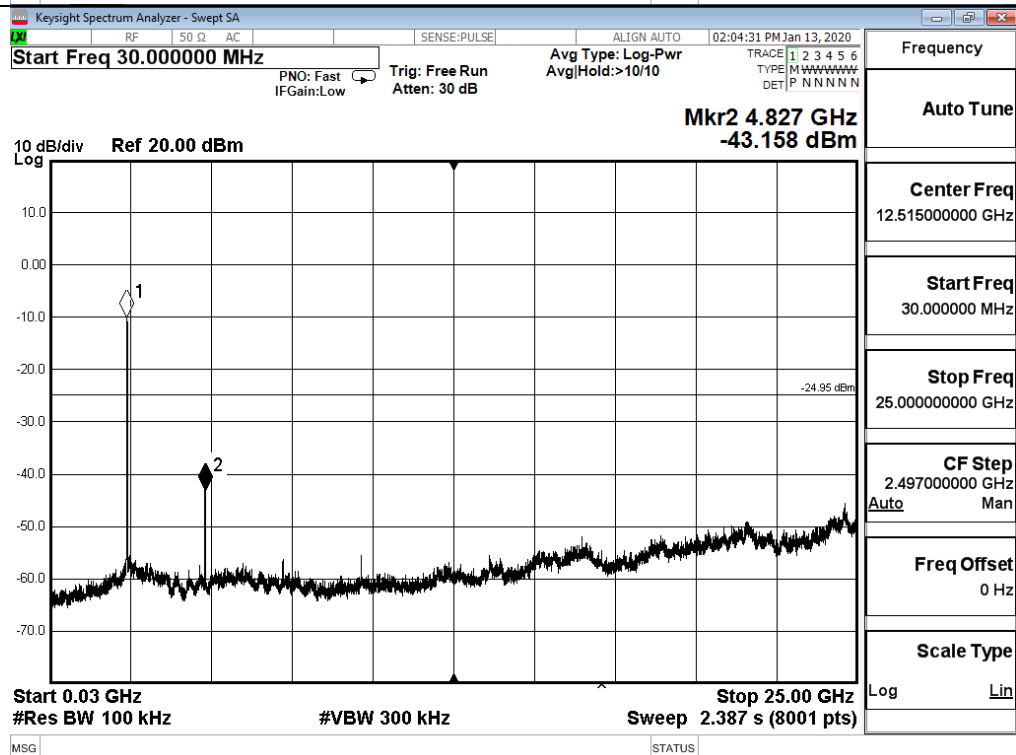
Pref/11G/HCH



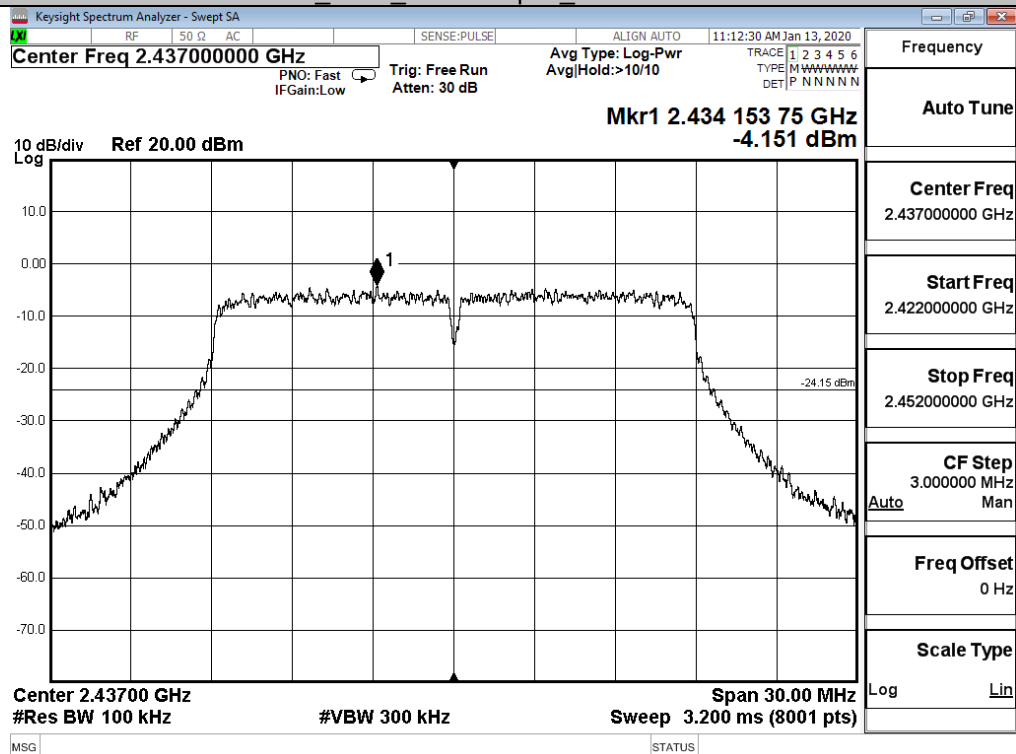
Puw/11G/HCH



11N20SISO_LCH_Test Graphs_Ant2

Pref/11N20SIS
O/LCHPuw/11N20
SISO/LCH

11N20SISO_MCH Test Graphs_Ant2

Pref/11N20
SISO/MCHPuw/11N20
SISO/MCH