

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

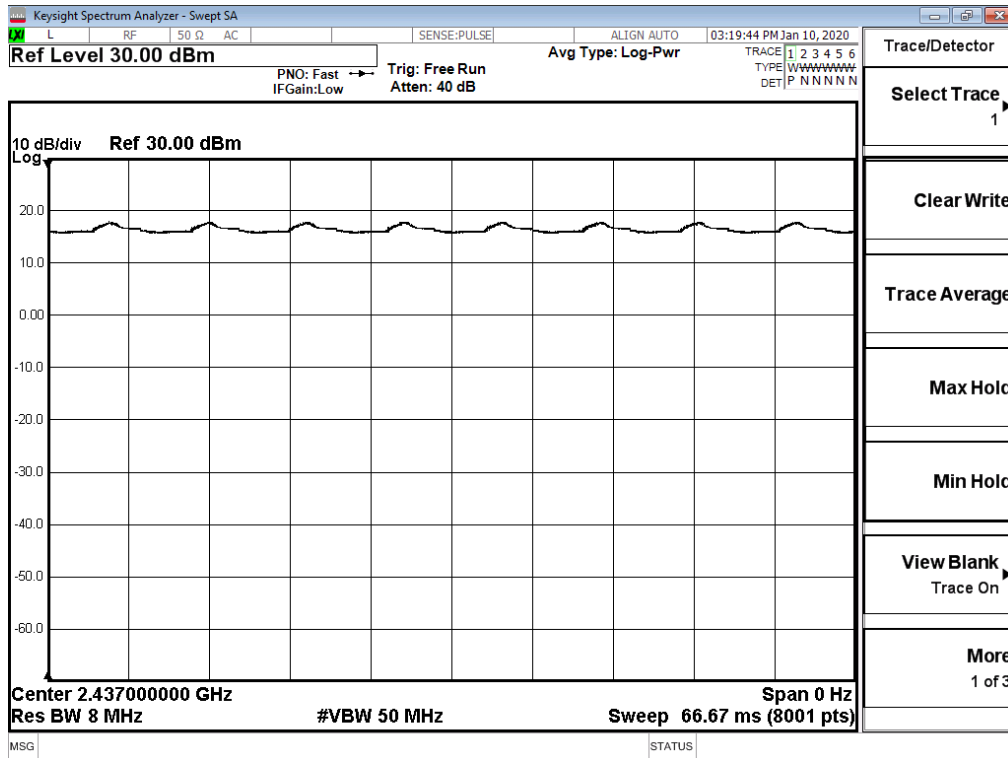
ANT1

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

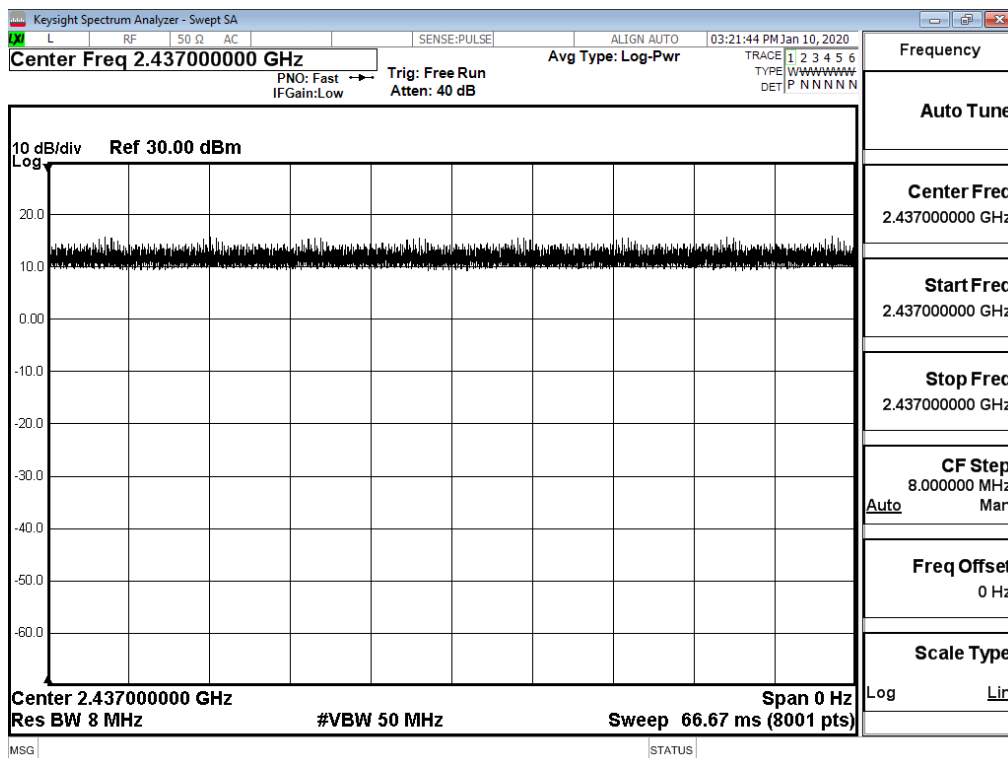
ANT2

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

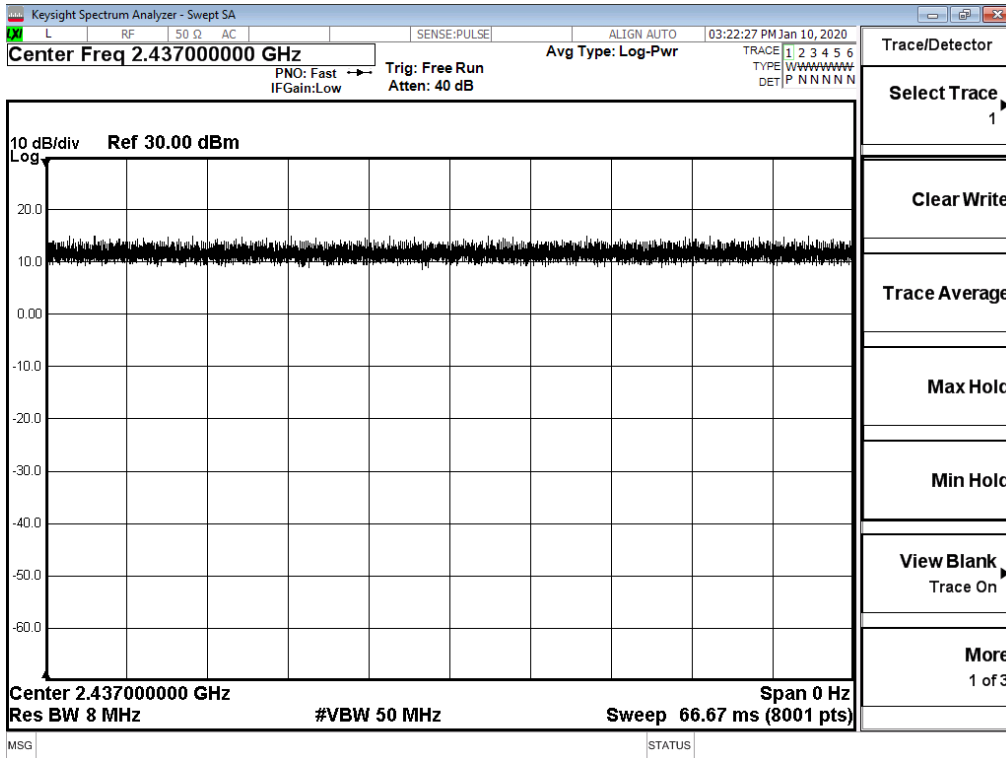
Duty Cycle_11B_2437_Ant1



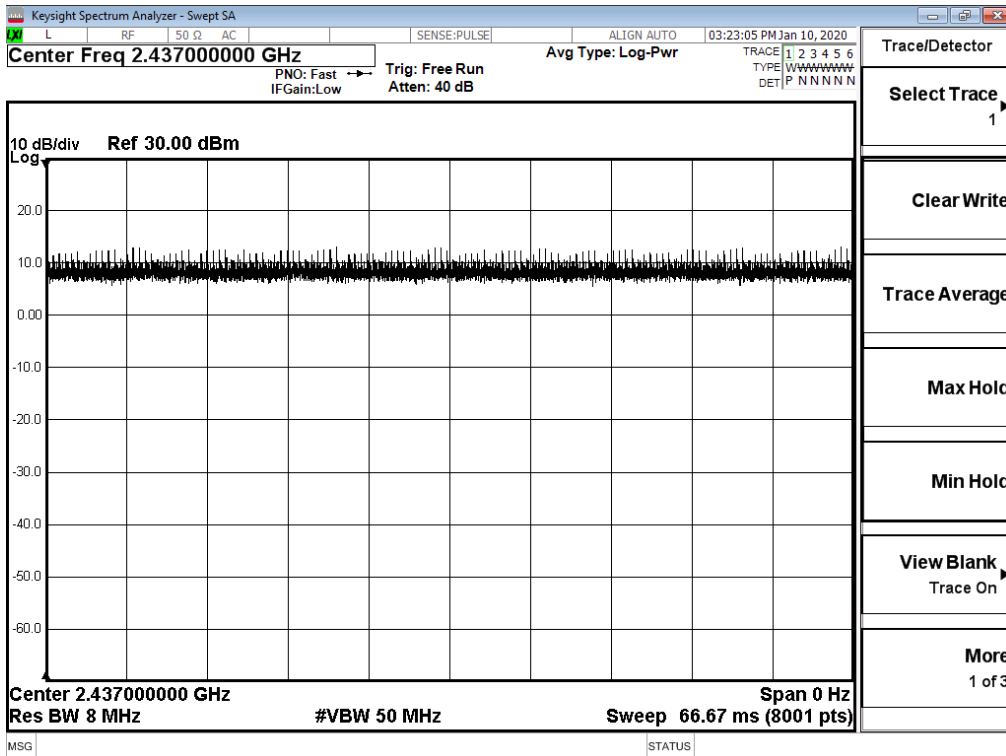
Duty Cycle_11G_2437_Ant1



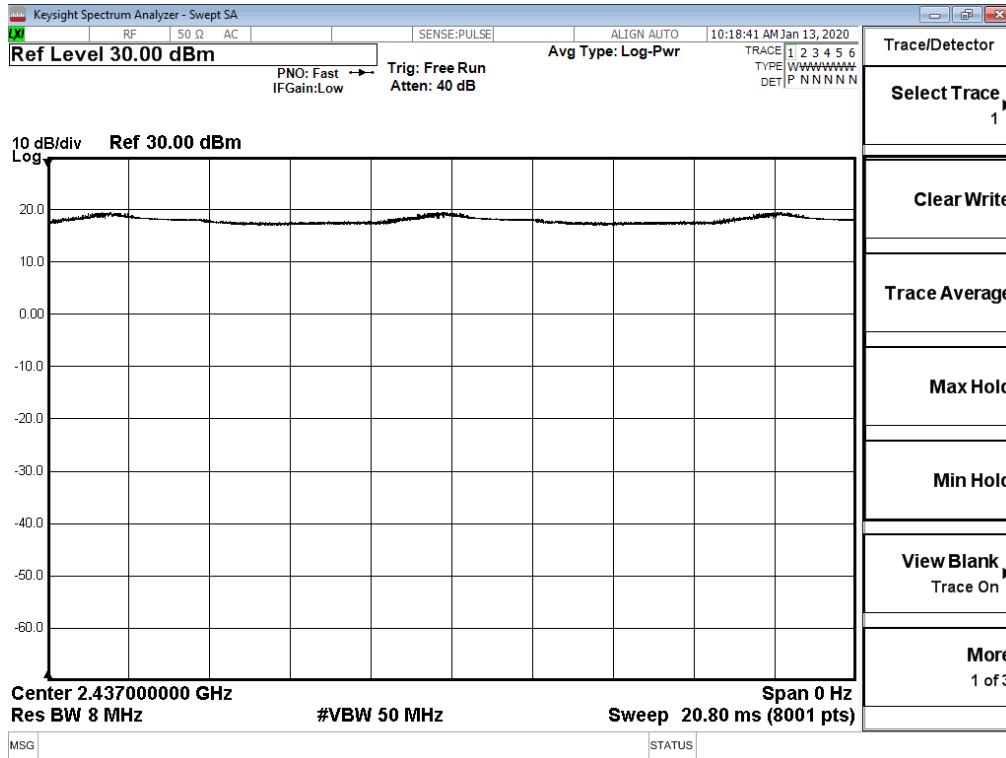
Duty Cycle_11N20SISO_2437_Ant1



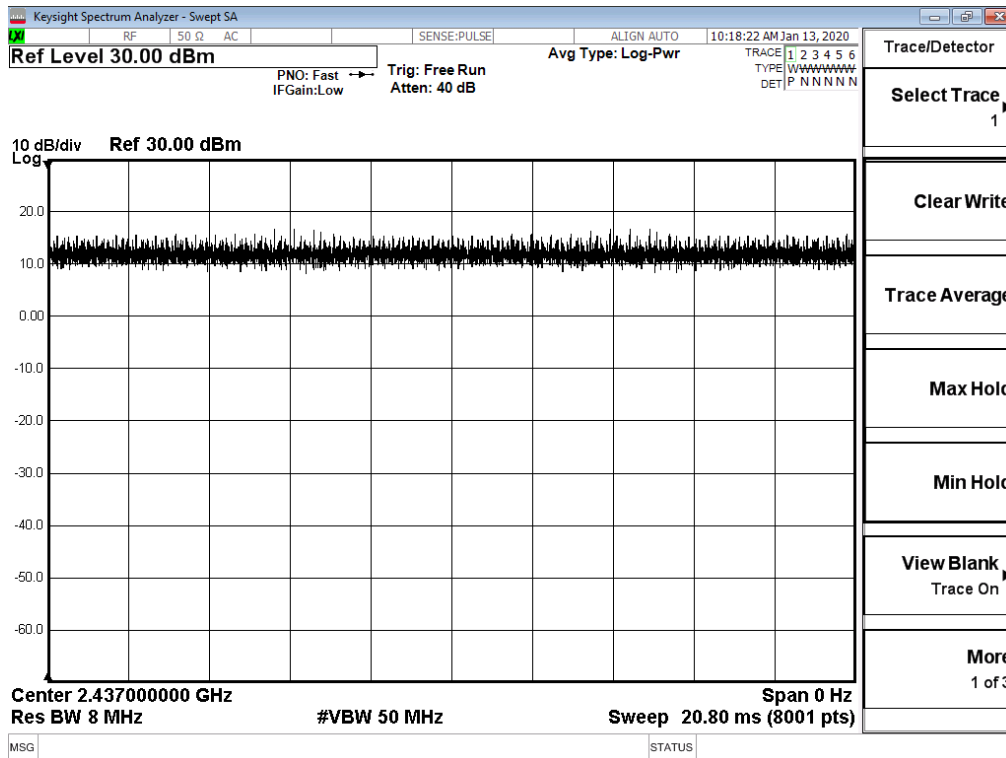
Duty Cycle_11N40SISO_2437_Ant1



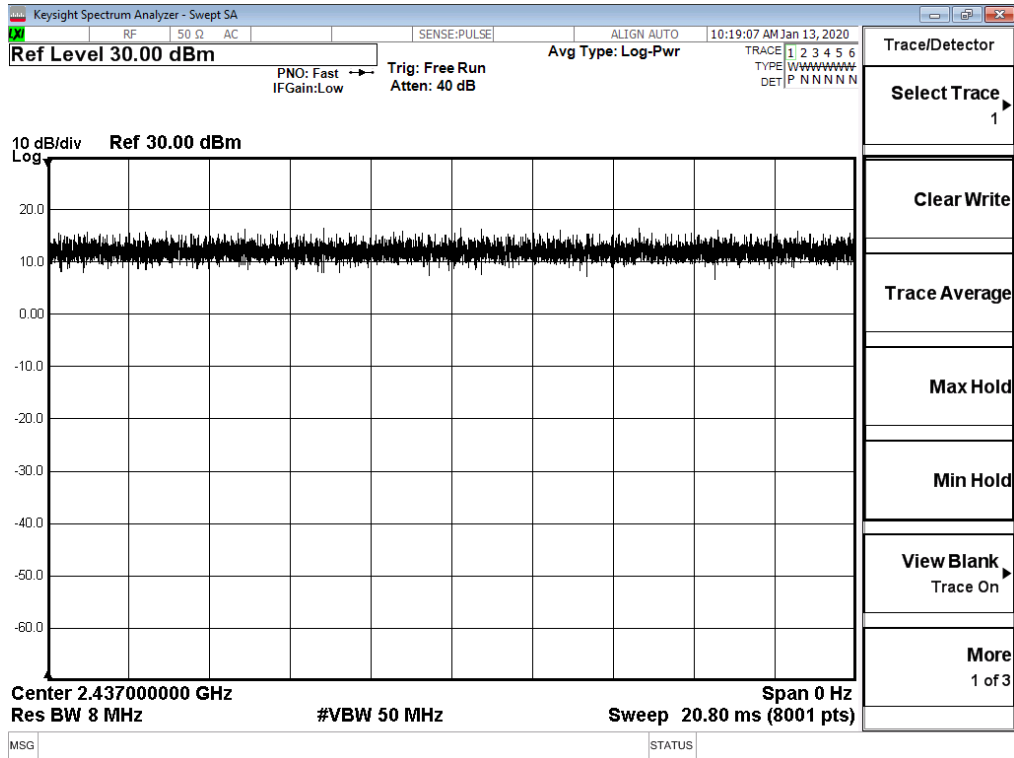
Duty Cycle_11B_2437_Ant2



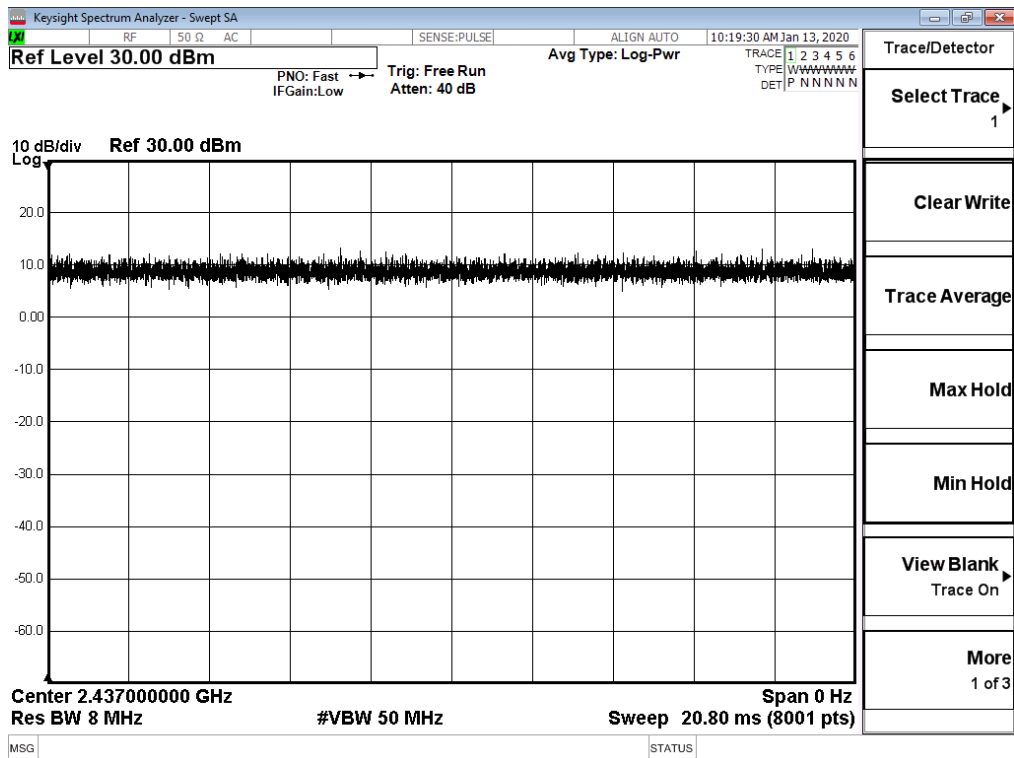
Duty Cycle_11G_2437_Ant2



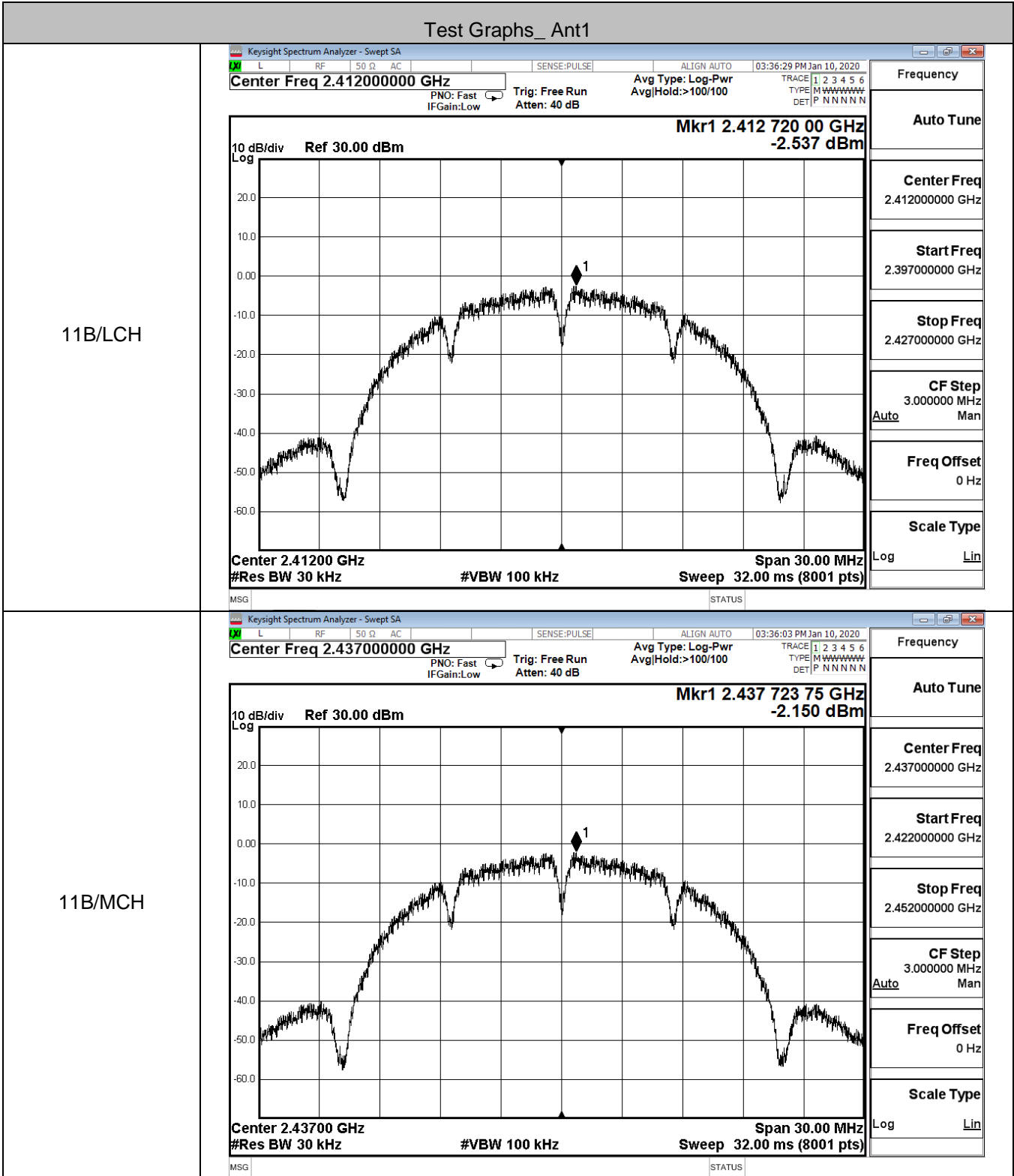
Duty Cycle_11N20SISO_2437_Ant2



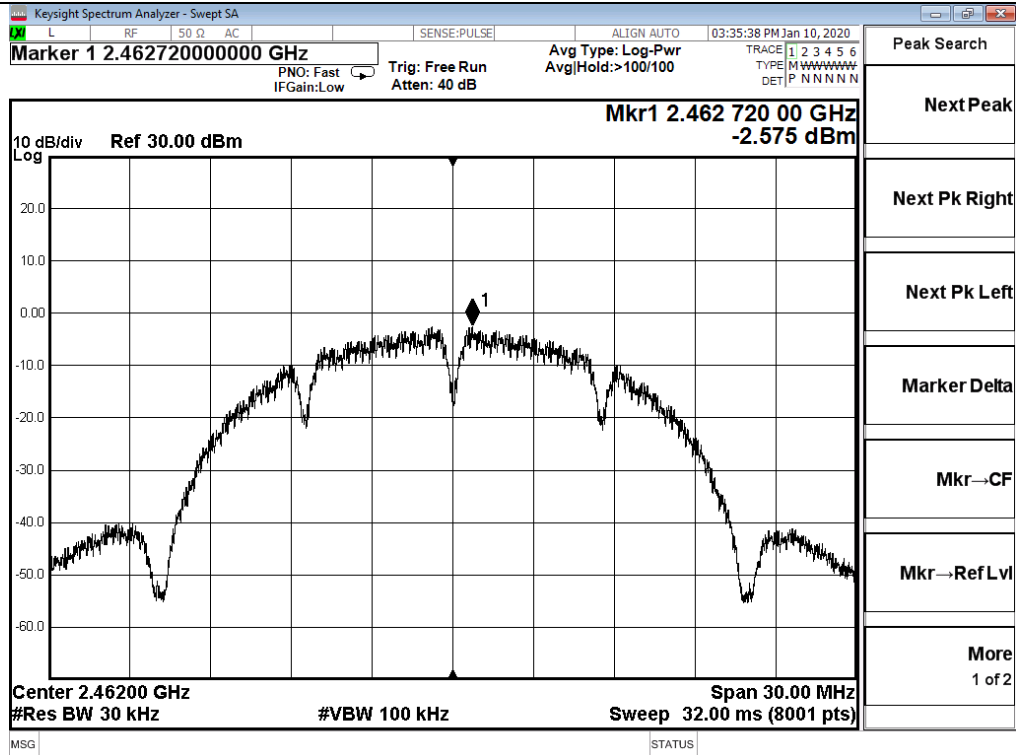
Duty Cycle_11N40SISO_2437_Ant2



A.2 Maximum Power Spectral Density

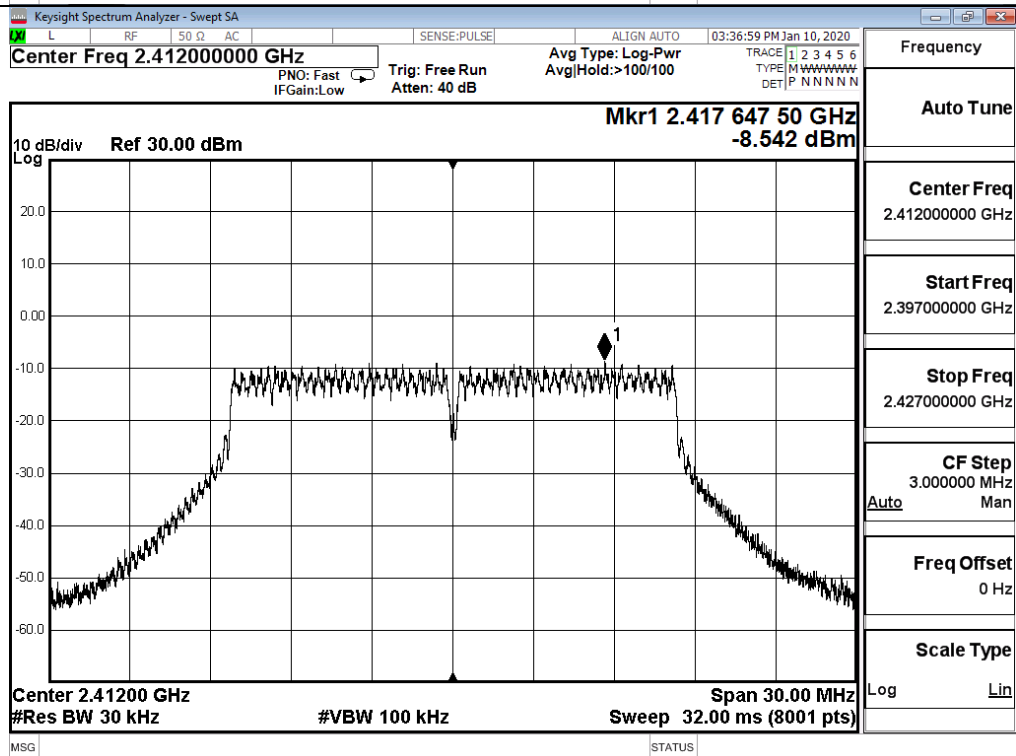


11B/HCH



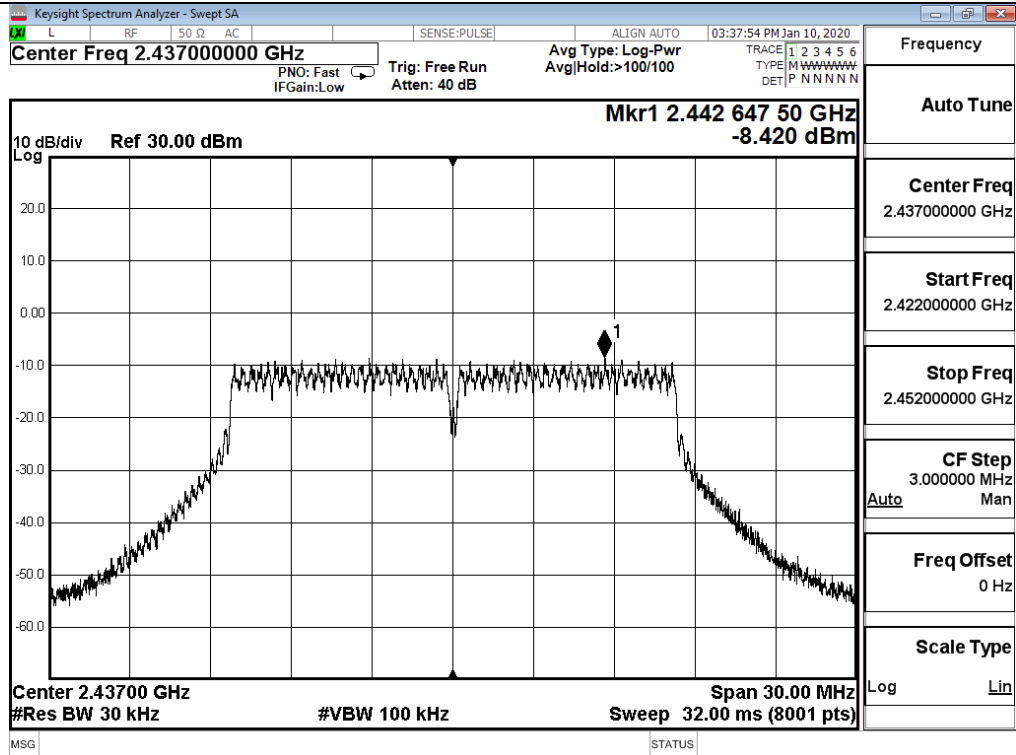
- Peak Search
- Next Peak
- Next Pk Right
- Next Pk Left
- Marker Delta
- Mkr→CF
- Mkr→Ref Lvl
- More
1 of 2

11G/LCH



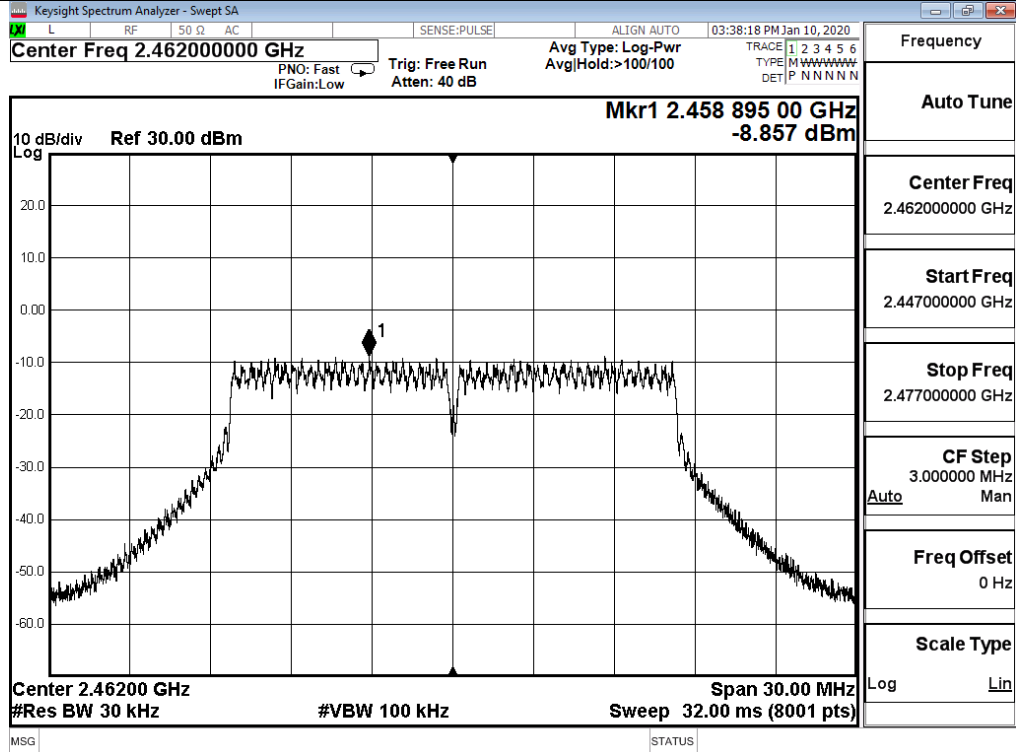
- Frequency
- Auto Tune
- Center Freq
2.412000000 GHz
- Start Freq
2.397000000 GHz
- Stop Freq
2.427000000 GHz
- CF Step
3.000000 MHz
Auto Man
- Freq Offset
0 Hz
- Scale Type
Log Lin

11G/MCH



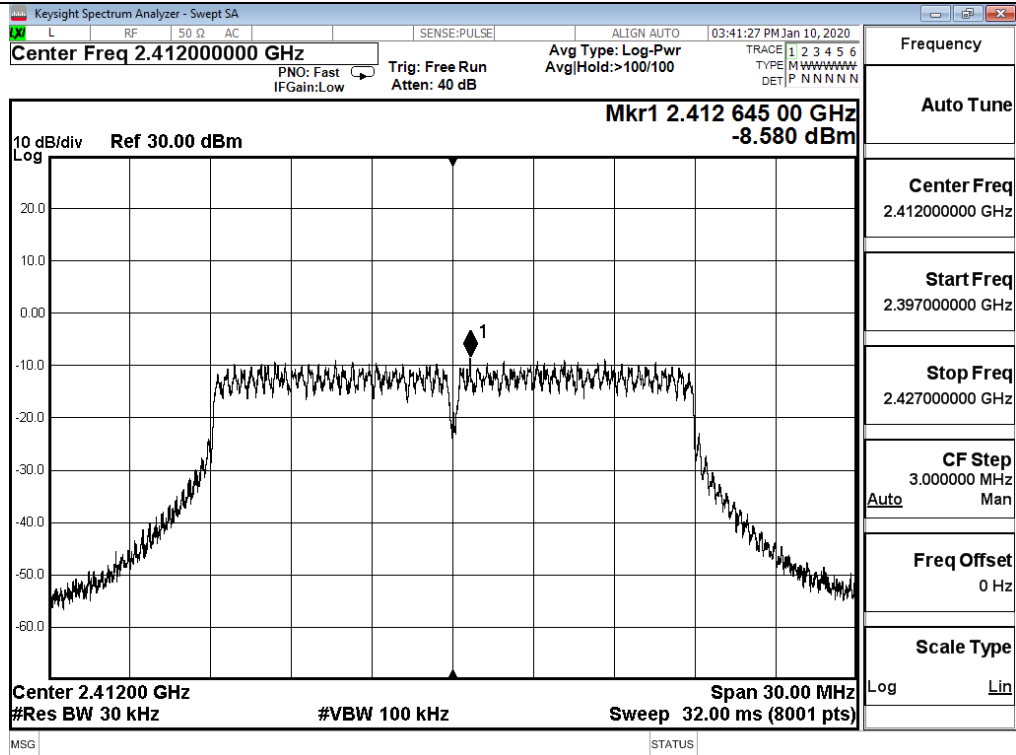
Frequency	
Auto Tune	
Center Freq	2.437000000 GHz
Start Freq	2.422000000 GHz
Stop Freq	2.452000000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz
Scale Type	Log Lin

11G/HCH

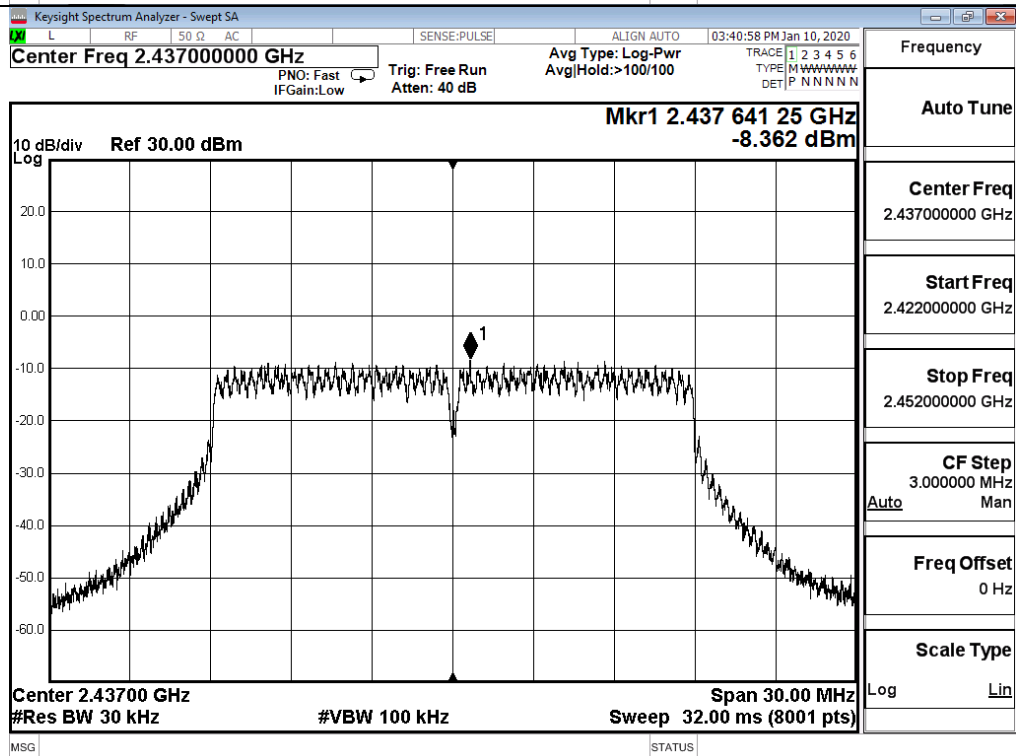


Frequency	
Auto Tune	
Center Freq	2.462000000 GHz
Start Freq	2.447000000 GHz
Stop Freq	2.477000000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz
Scale Type	Log Lin

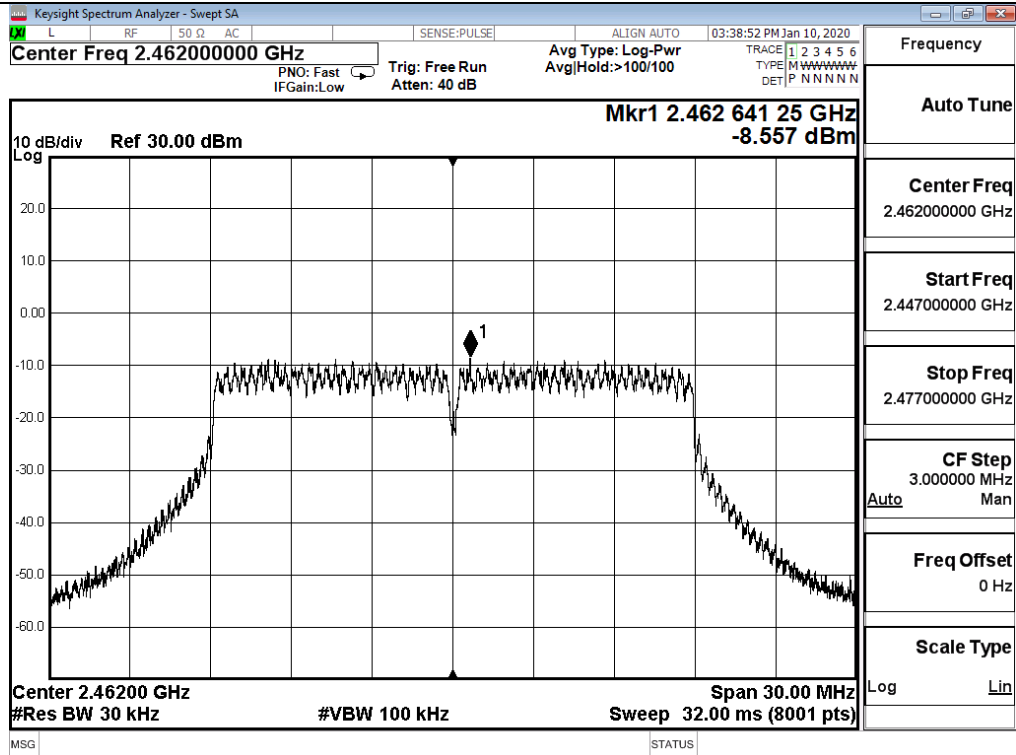
11N20SISO/LCH



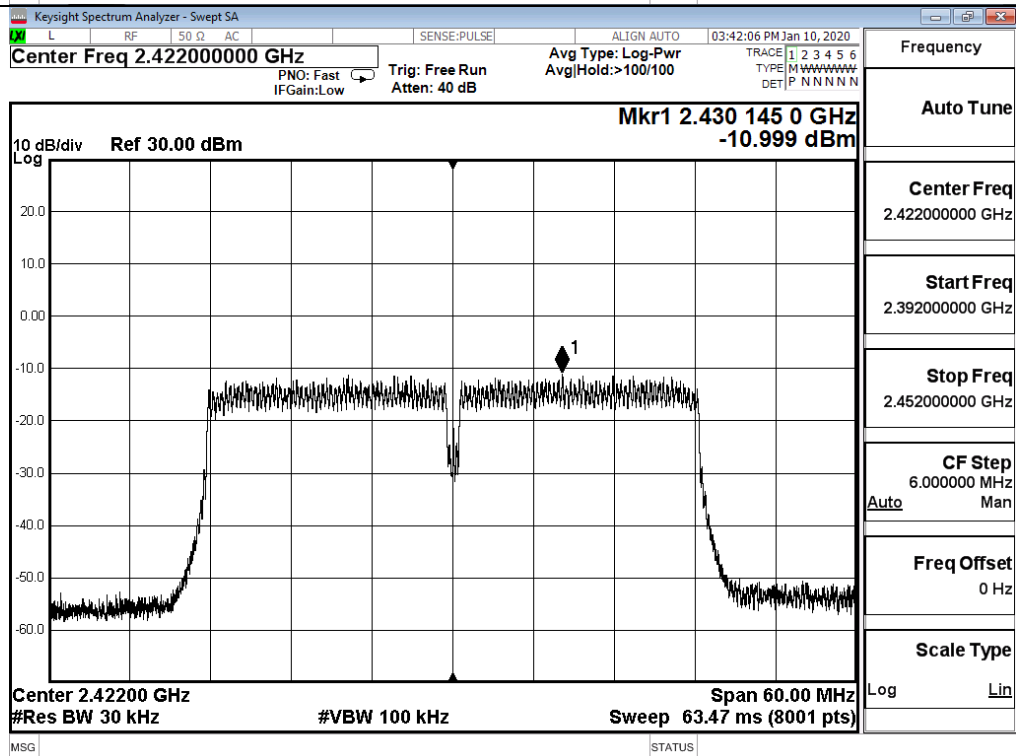
11N20SISO/MCH



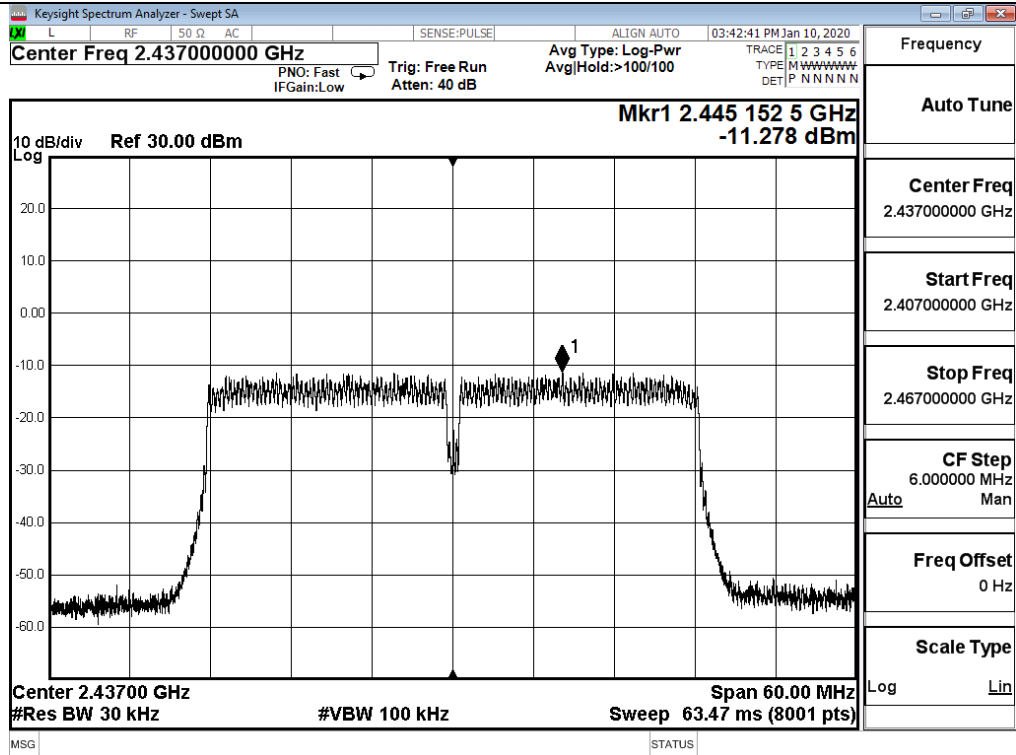
11N20SISO/HCH



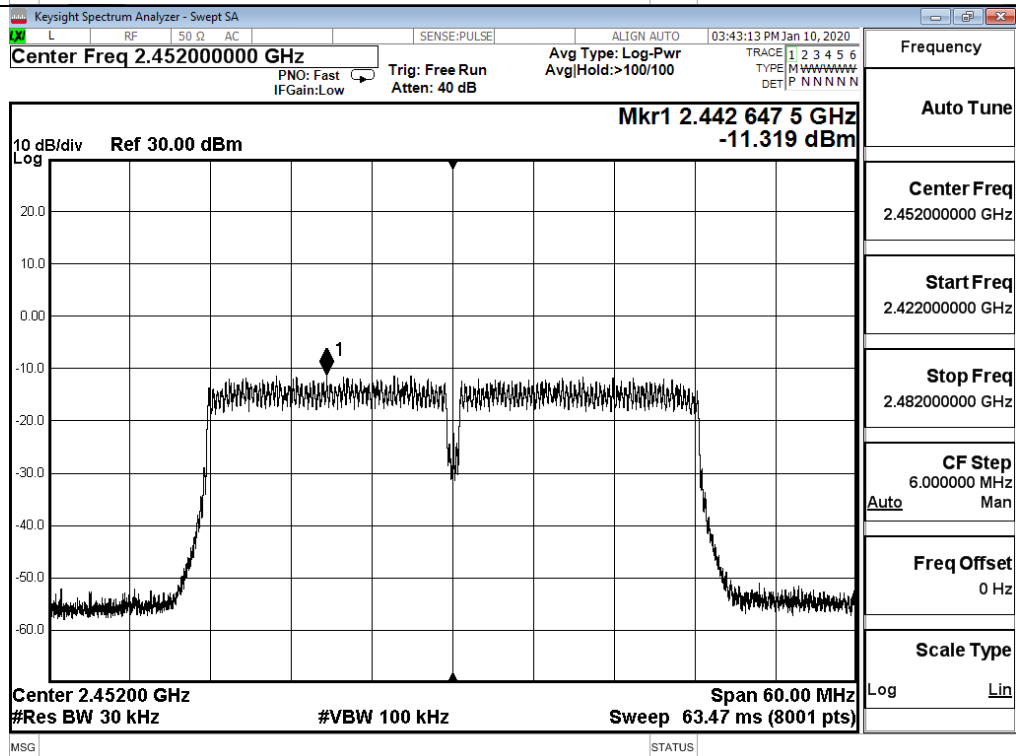
11N40SISO/LCH



11N40SISO/MCH

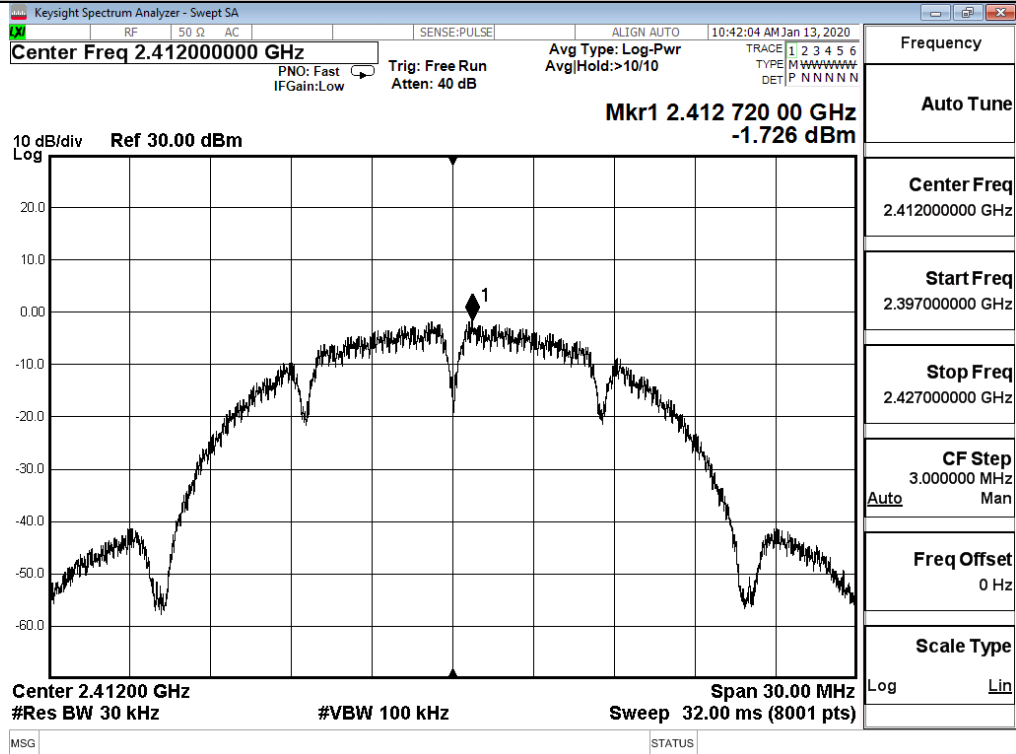


11N40SISO/HCH

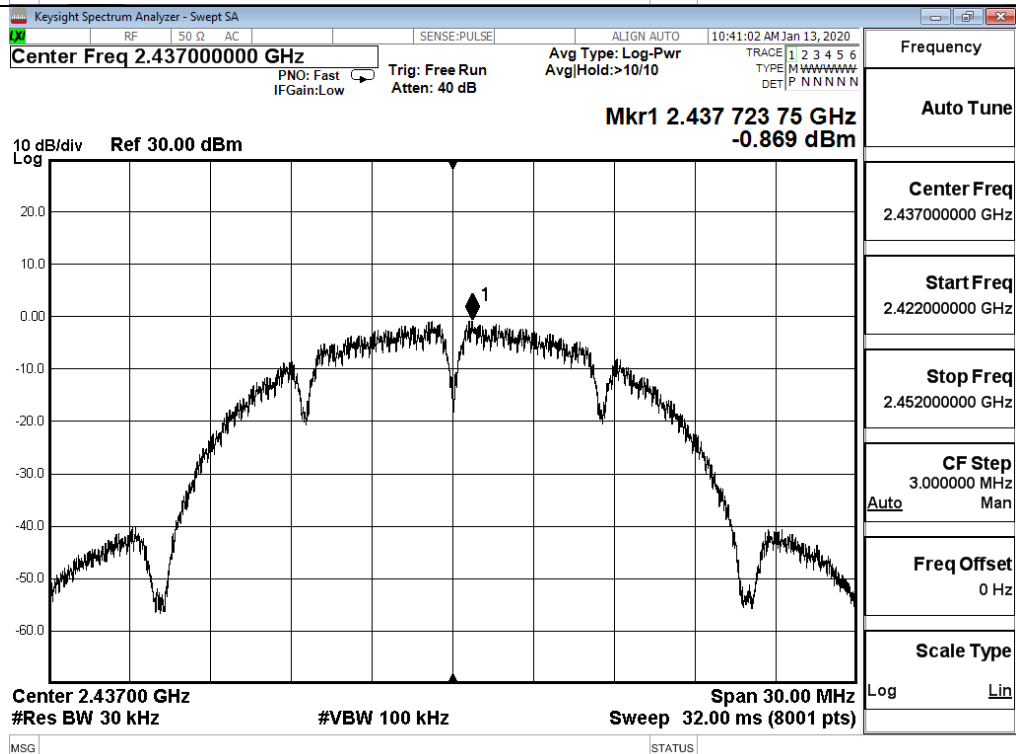


Test Graphs_ Ant2

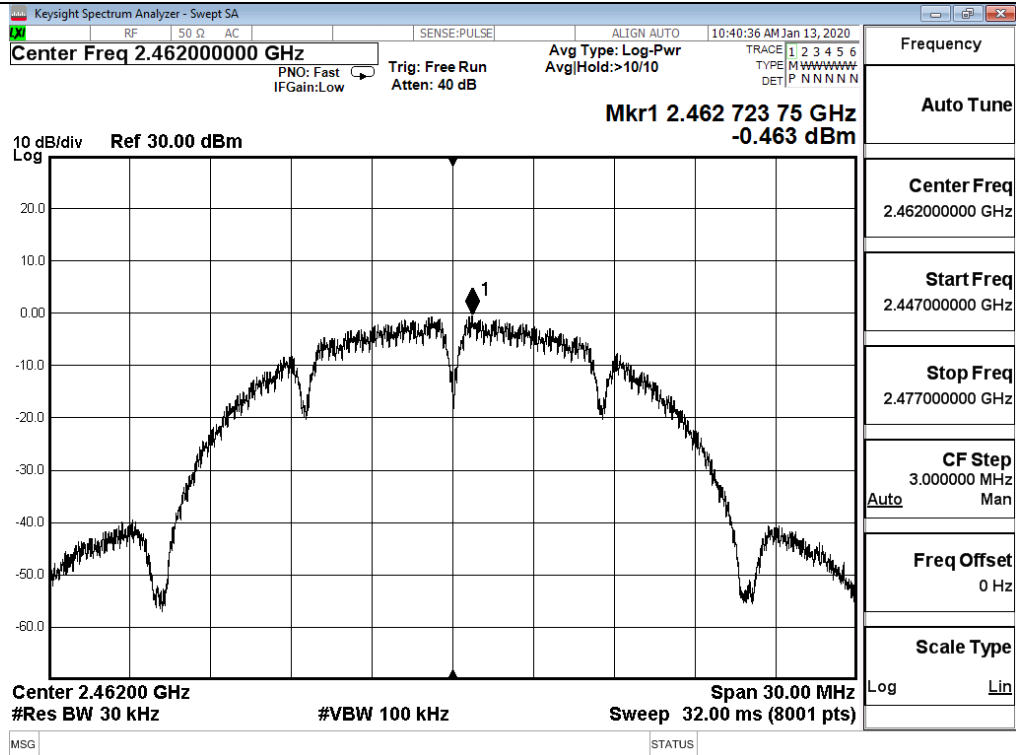
11B/LCH



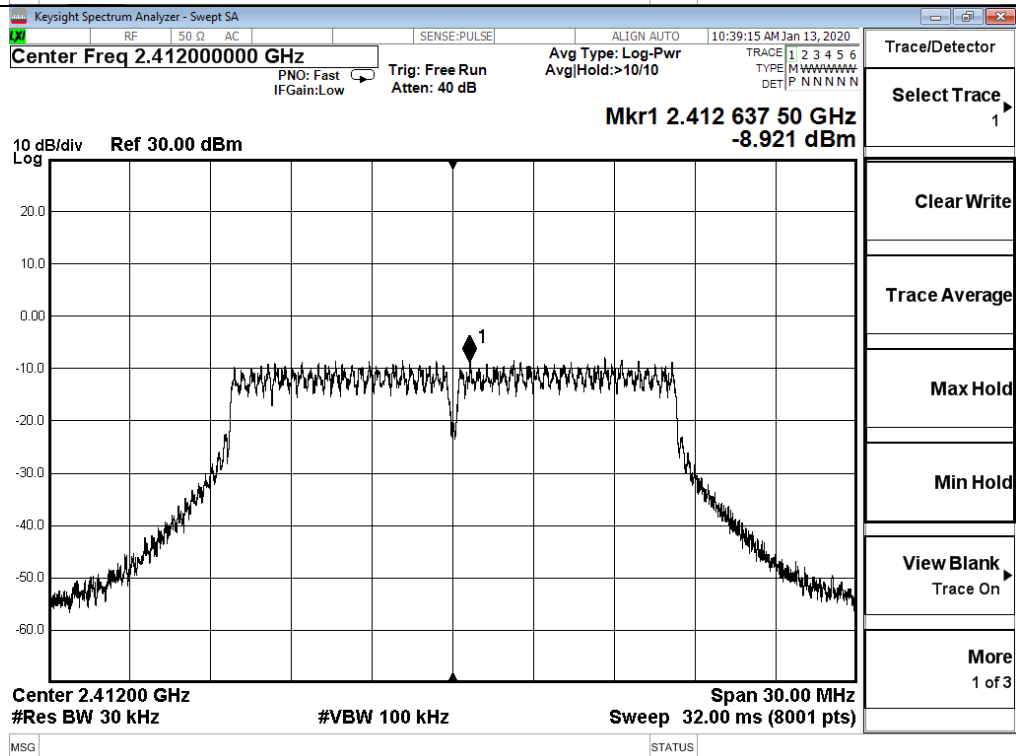
11B/MCH



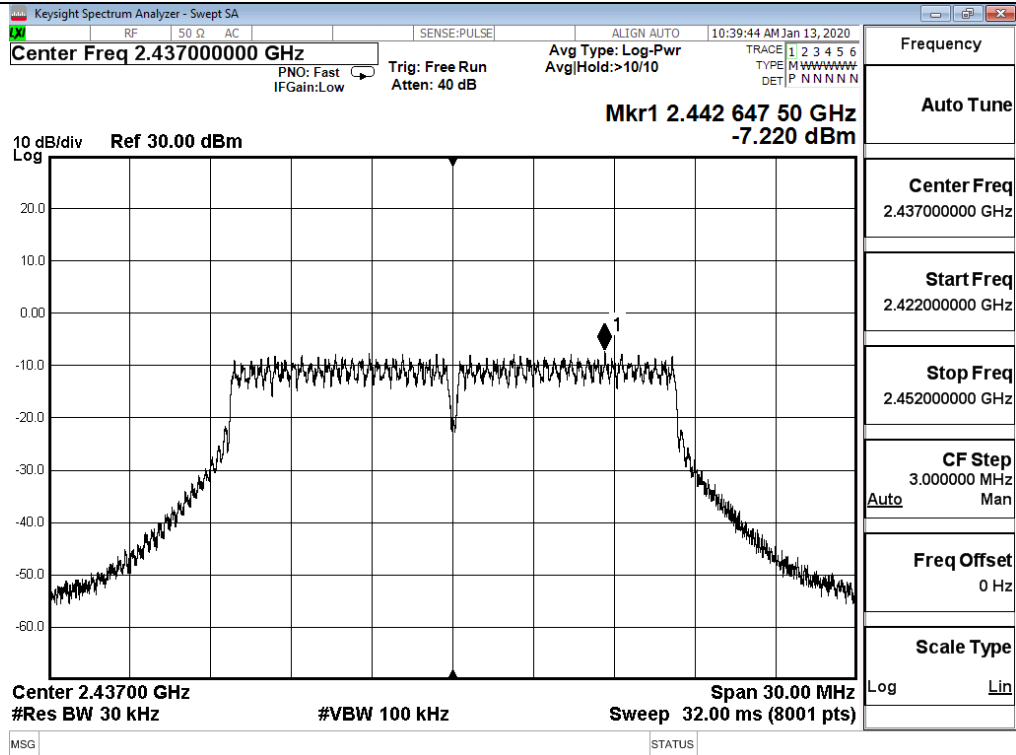
11B/HCH



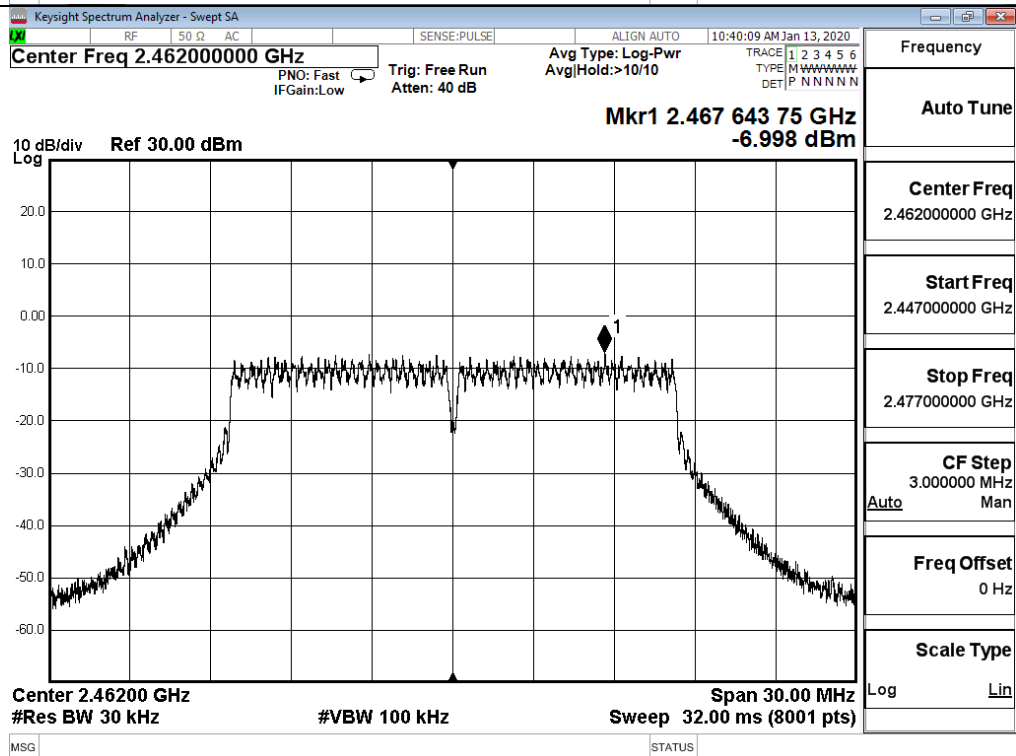
11G/LCH



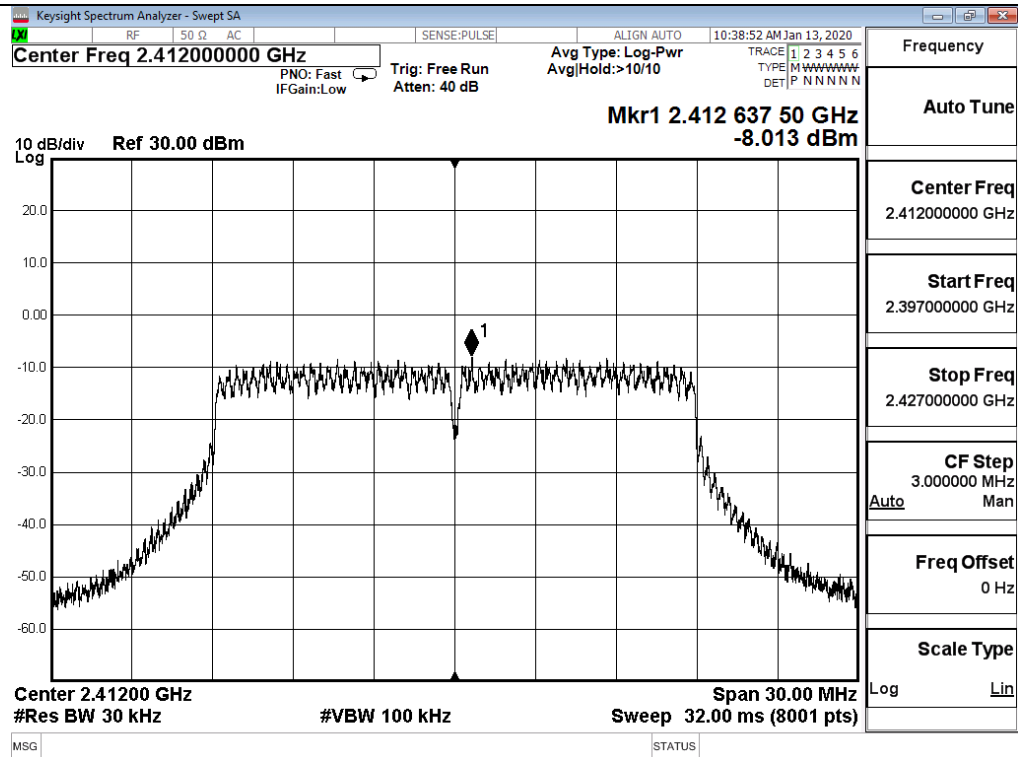
11G/MCH



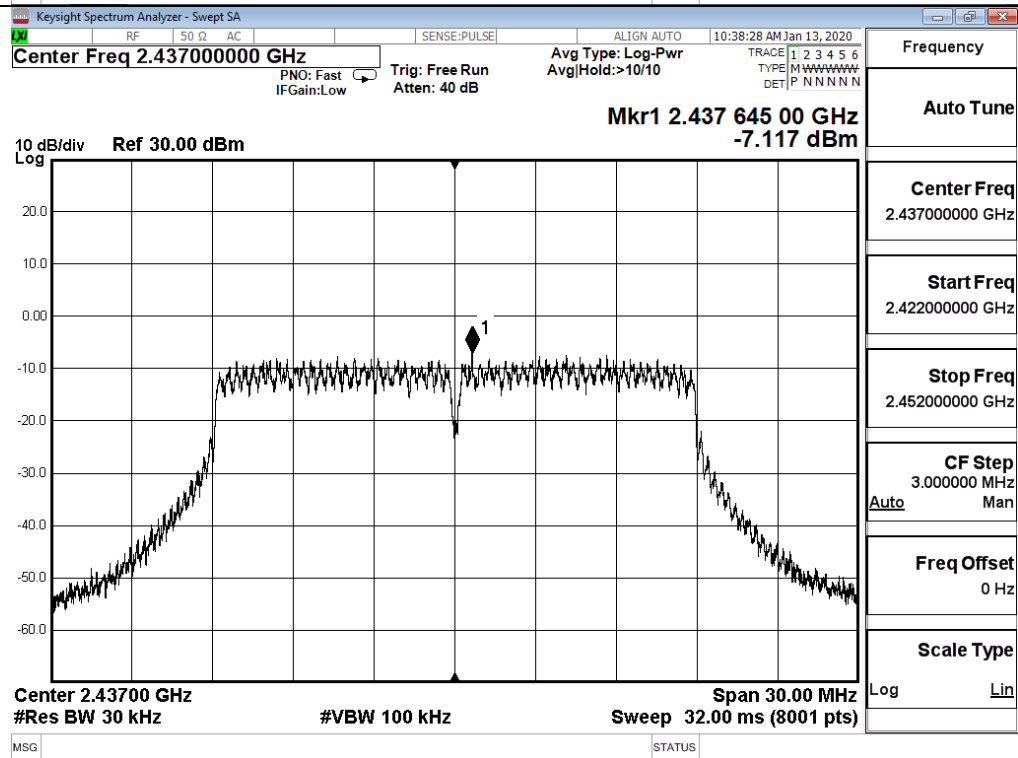
11G/HCH



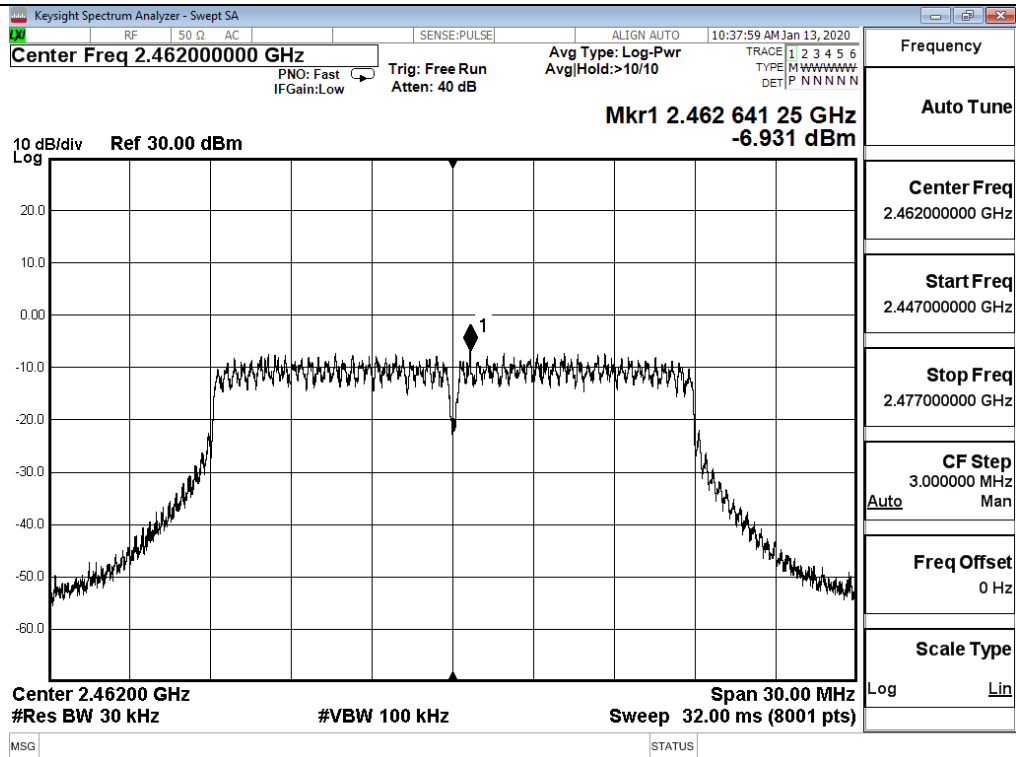
11N20SISO/LCH



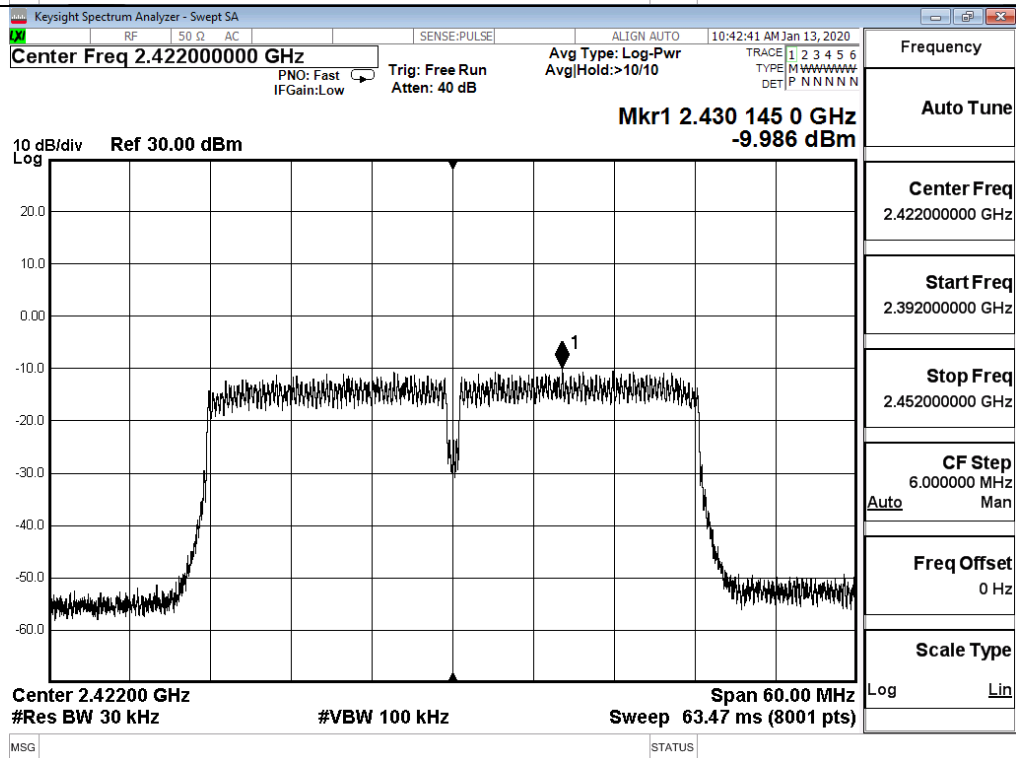
11N20SISO/MCH

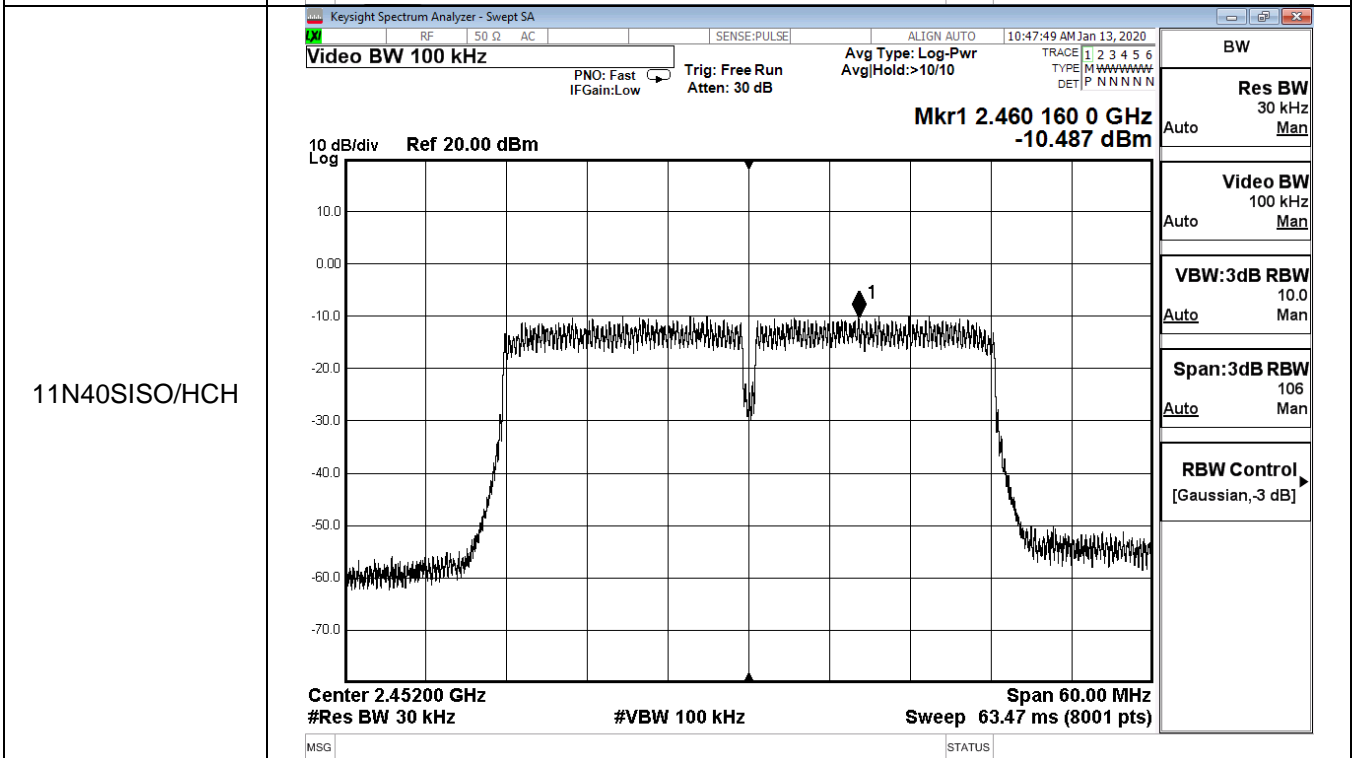
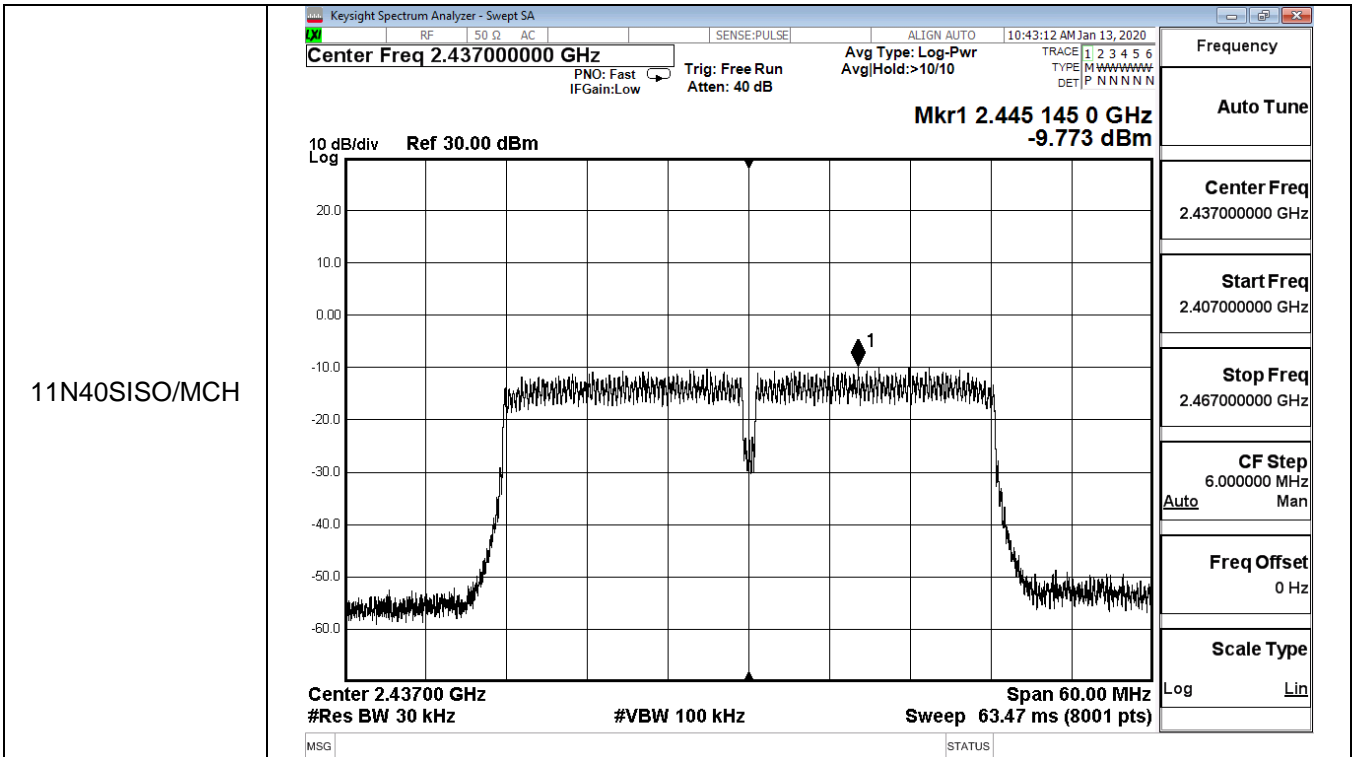


11N20SISO/HCH



11N40SISO/LCH

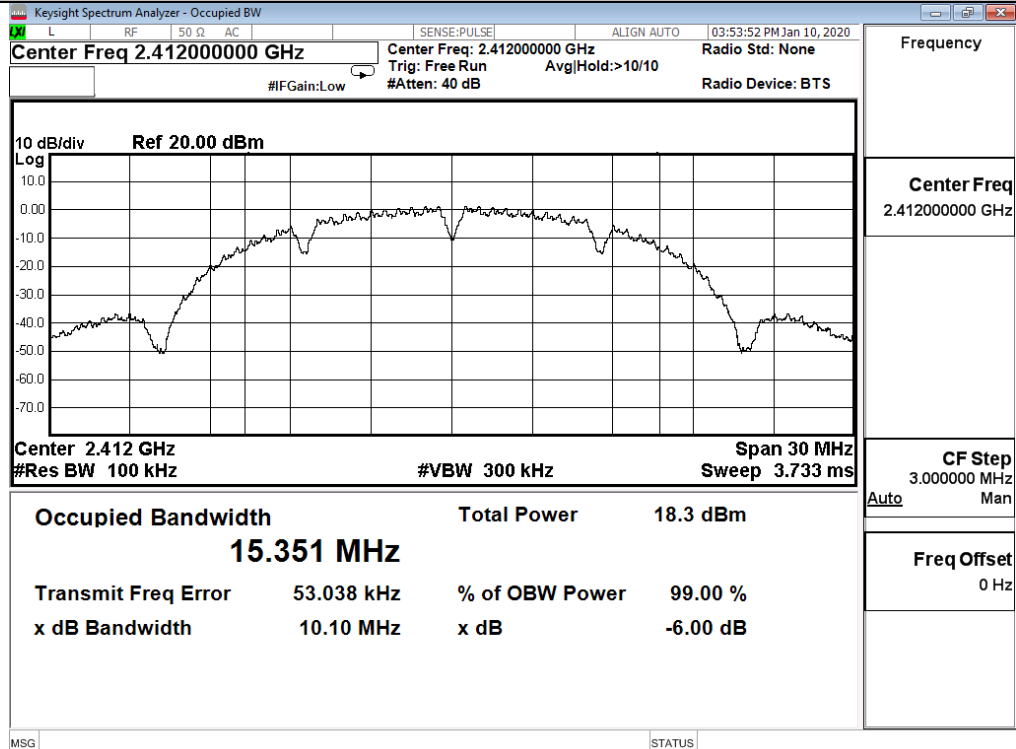




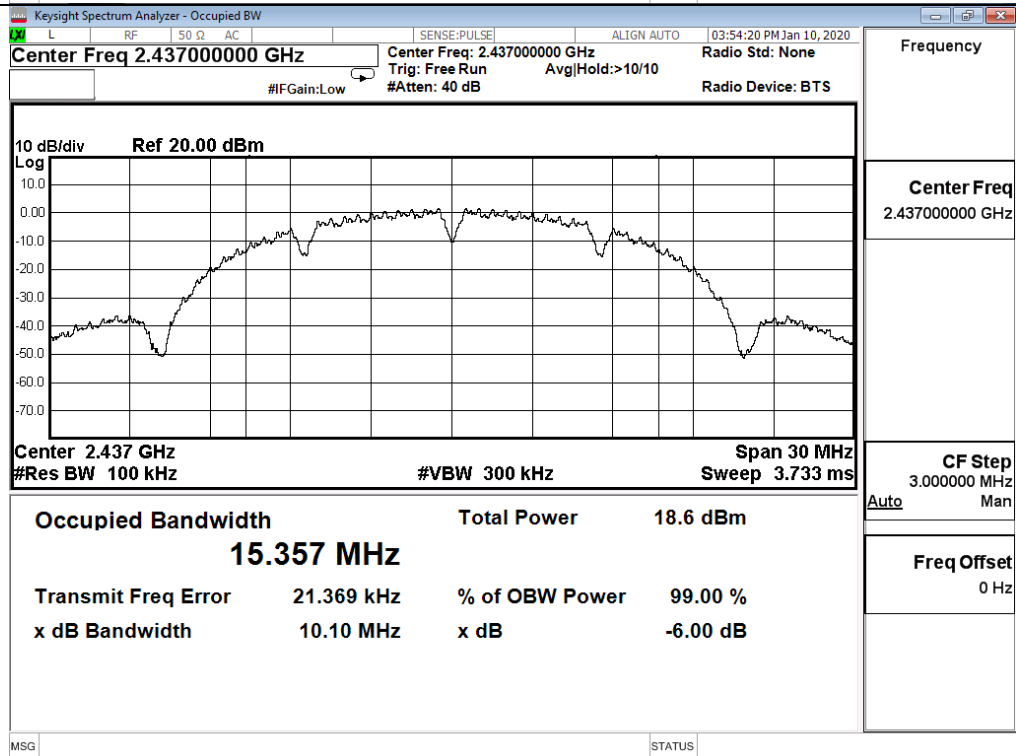
A.3 6dB Bandwidth

Test Graphs_ Ant1

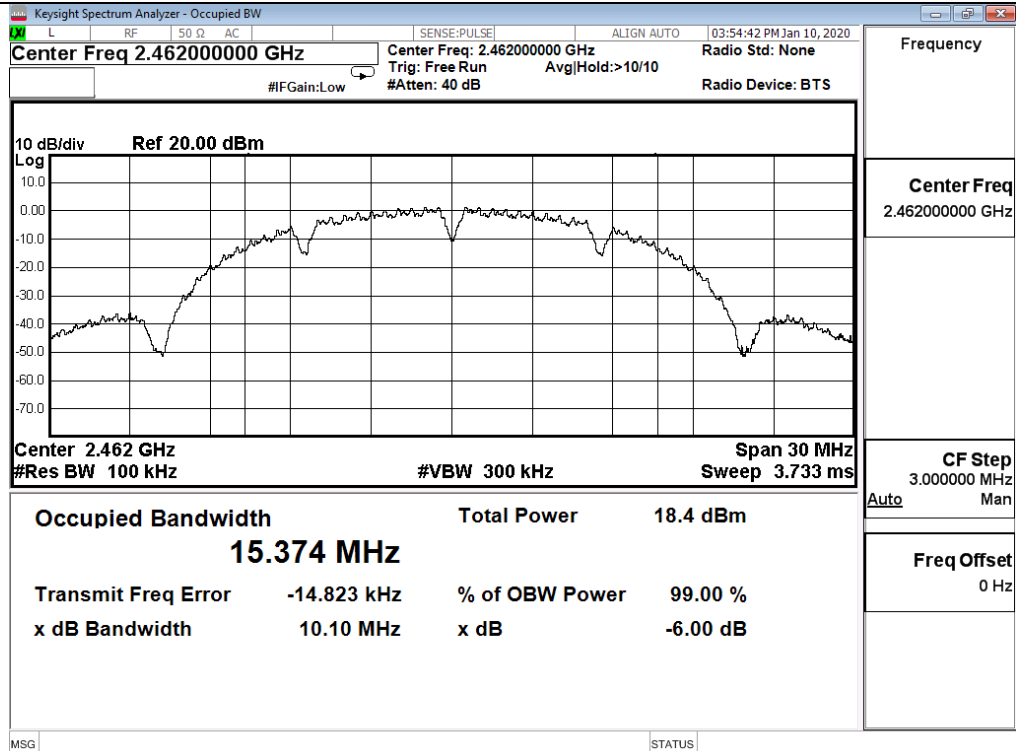
11B/LCH



11B/MCH

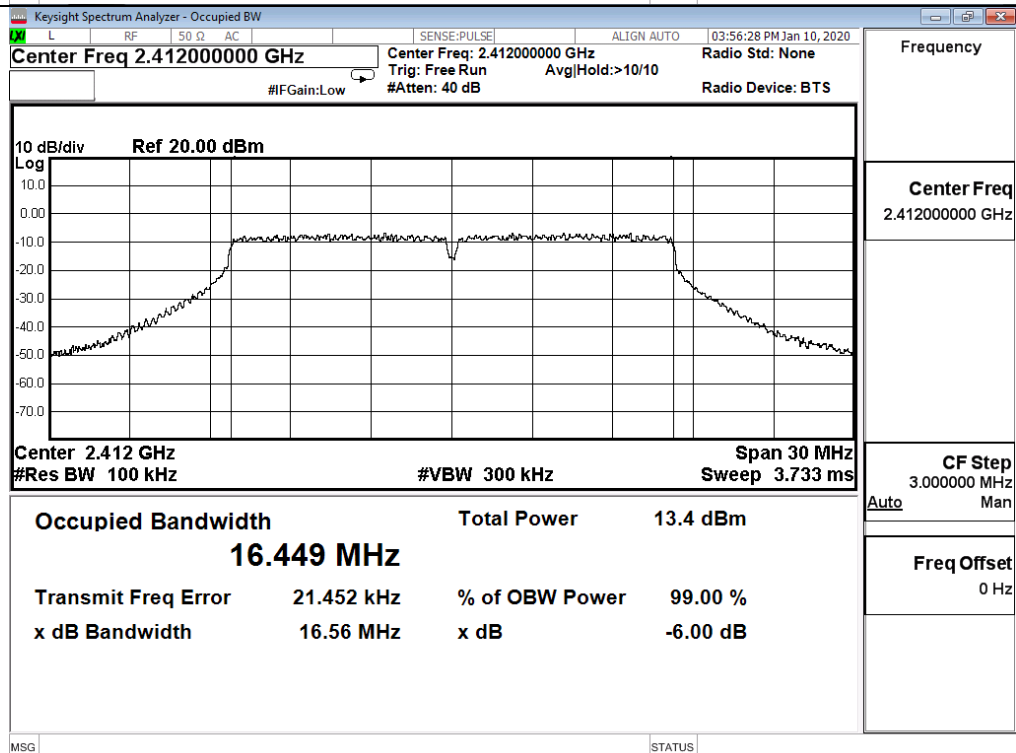


11B/HCH



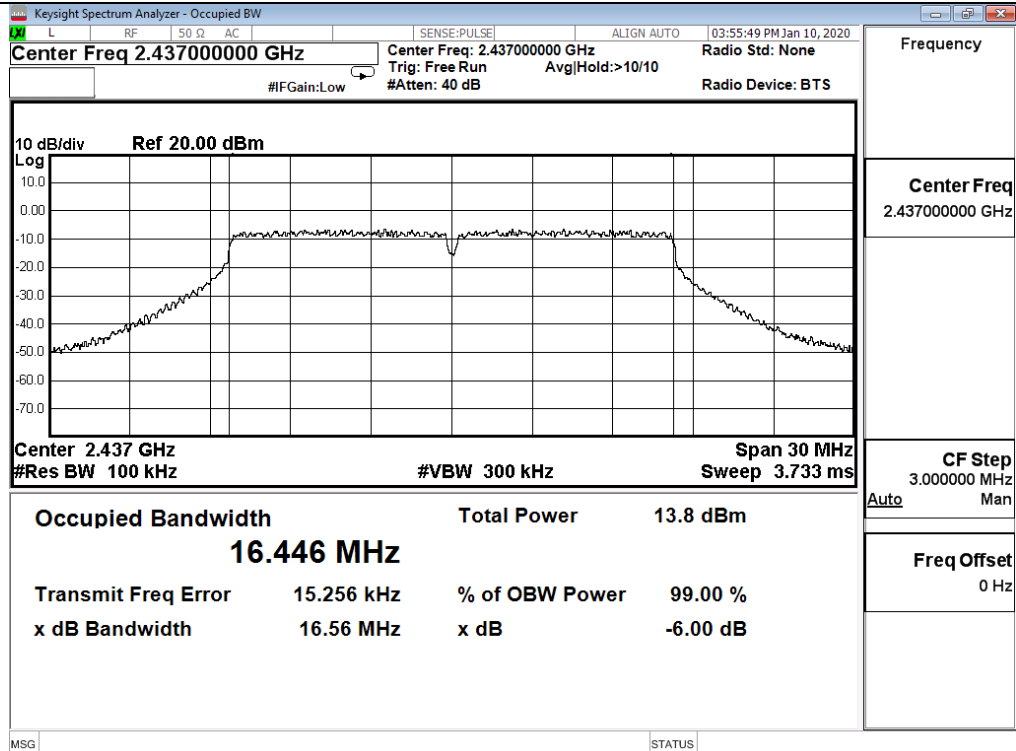
Frequency	2.46200000 GHz
Center Freq	2.46200000 GHz
CF Step	3.000000 MHz
Auto Man	
Freq Offset	0 Hz

11G/LCH

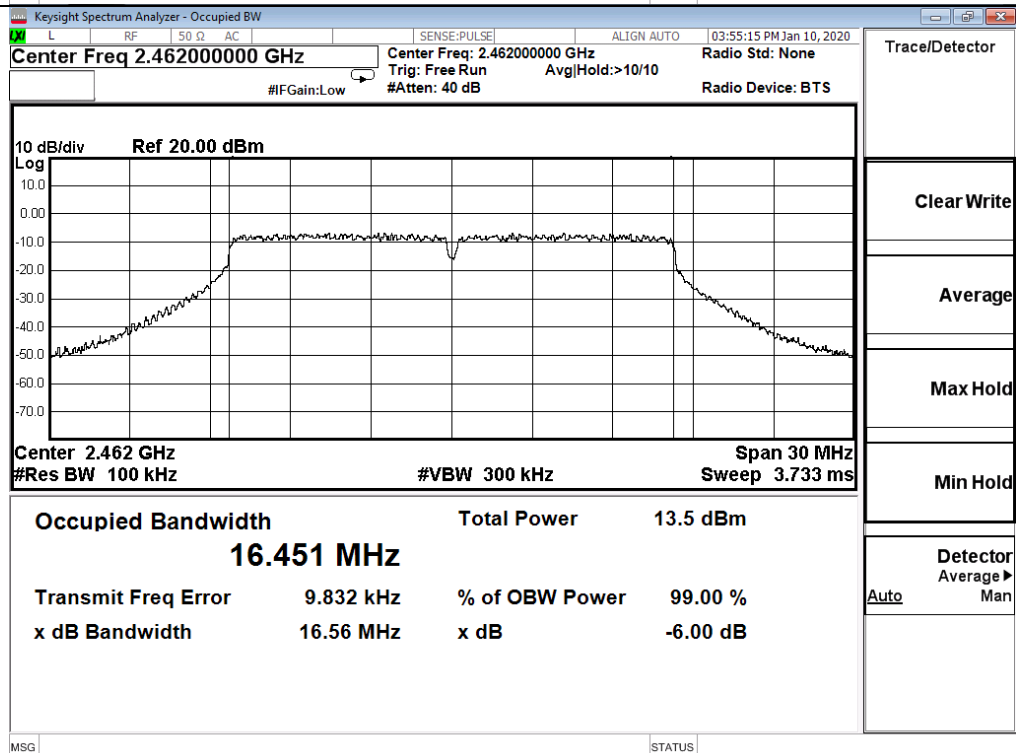


Frequency	2.41200000 GHz
Center Freq	2.41200000 GHz
CF Step	3.000000 MHz
Auto Man	
Freq Offset	0 Hz

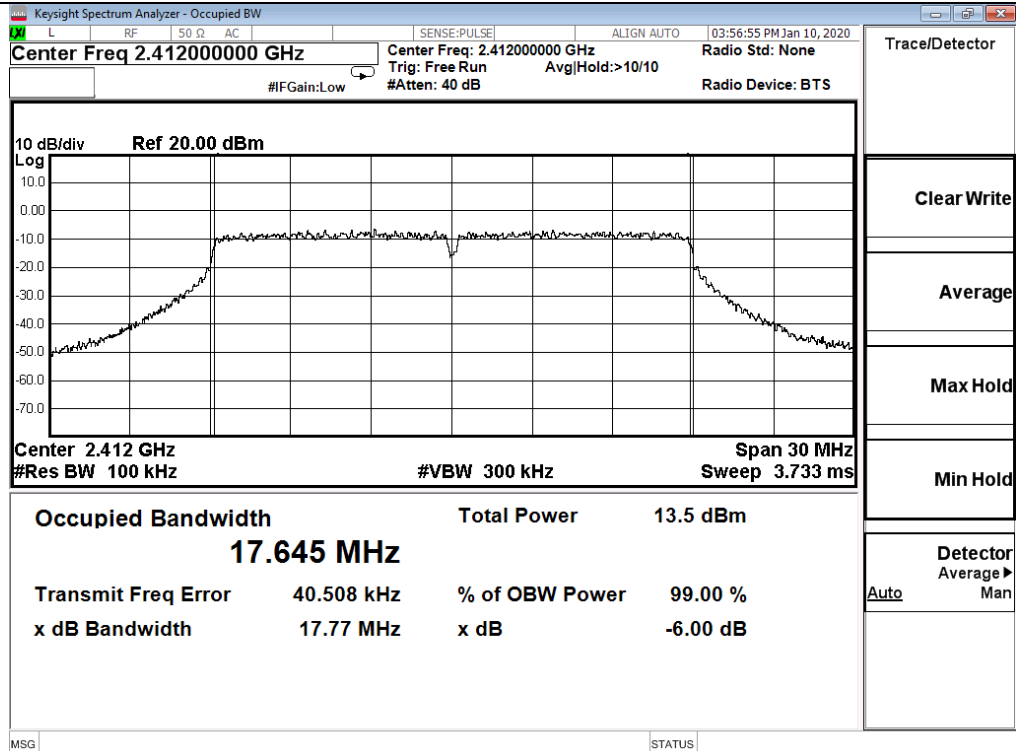
11G/MCH



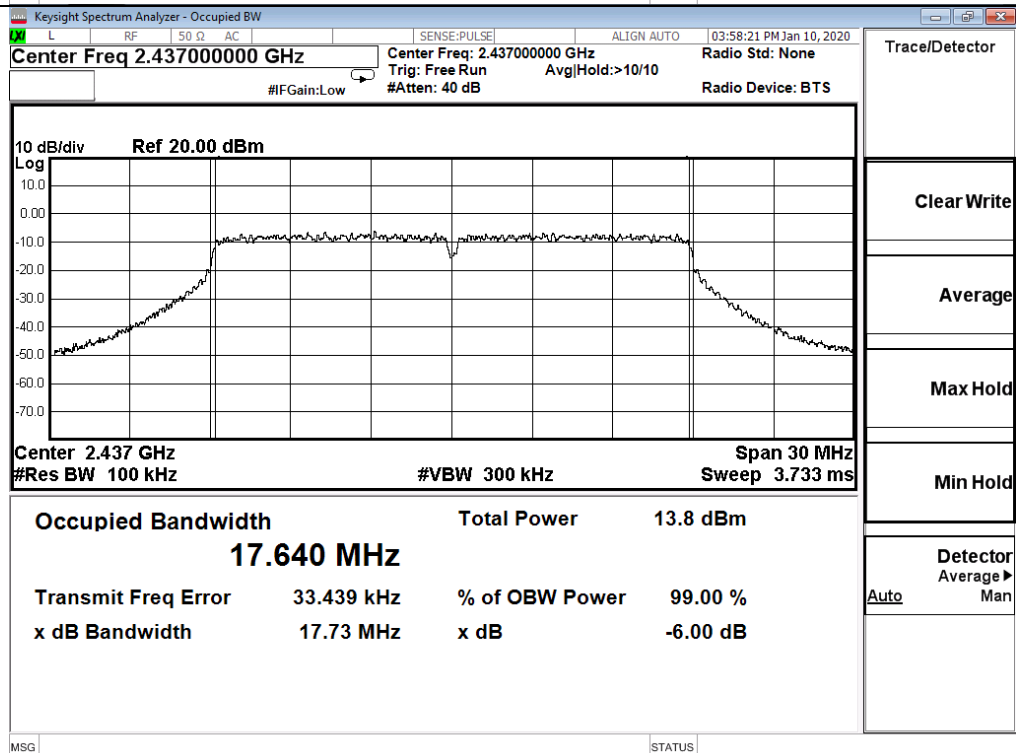
11G/HCH



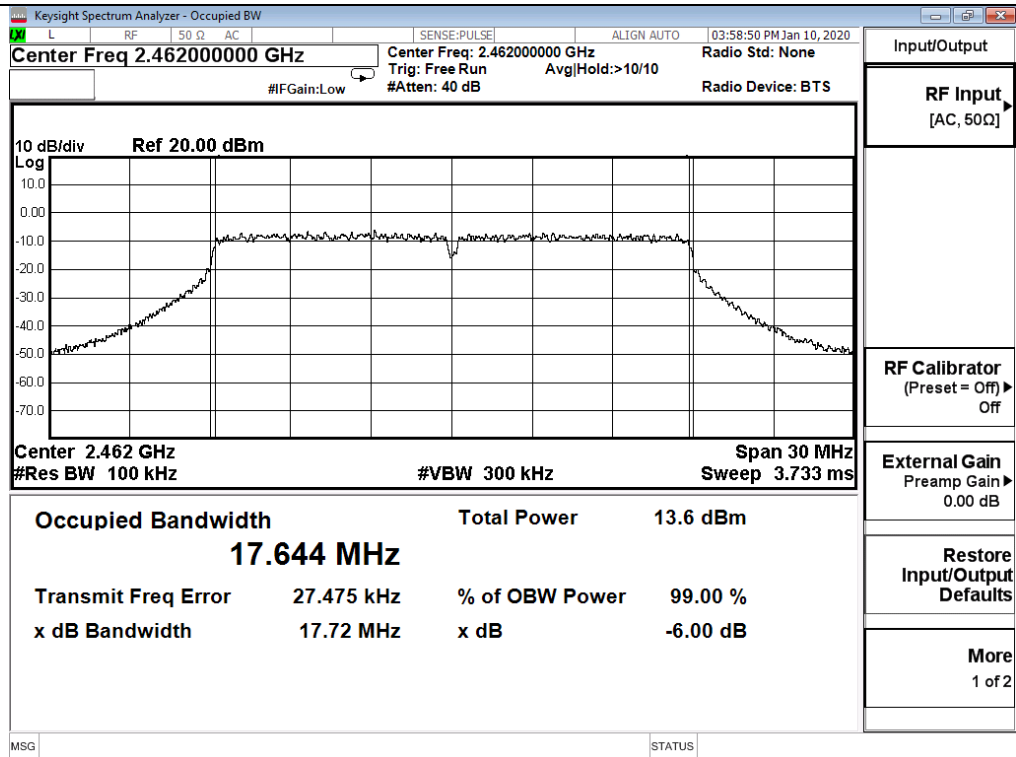
11N20SISO/LCH



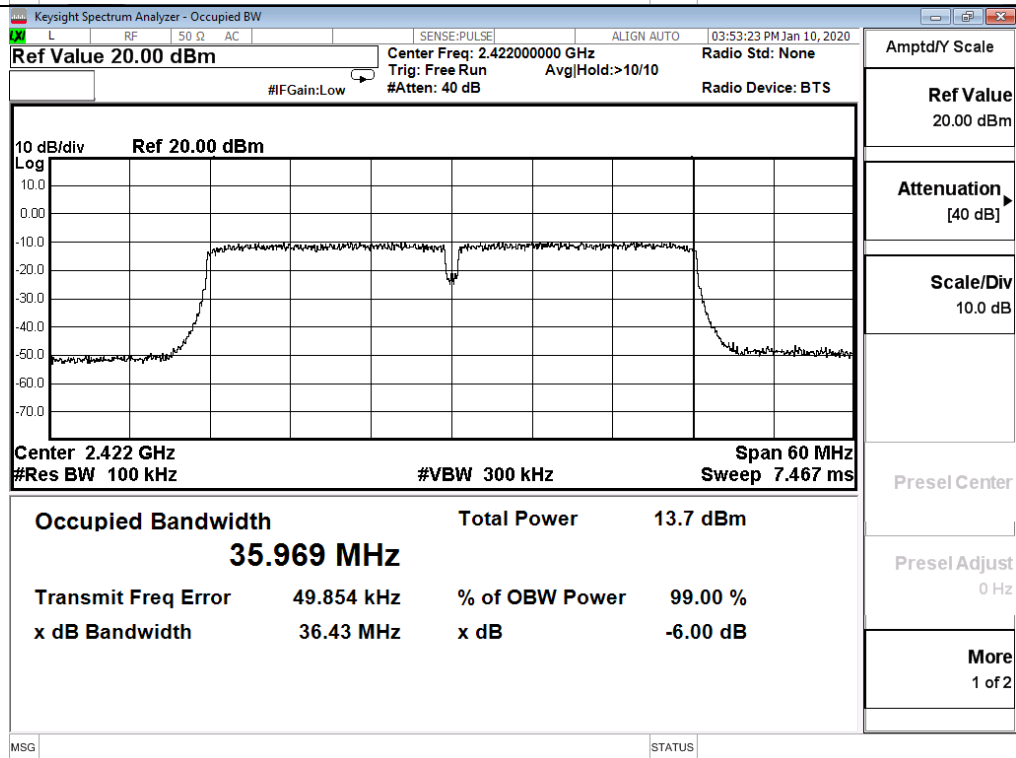
11N20SISO/MCH



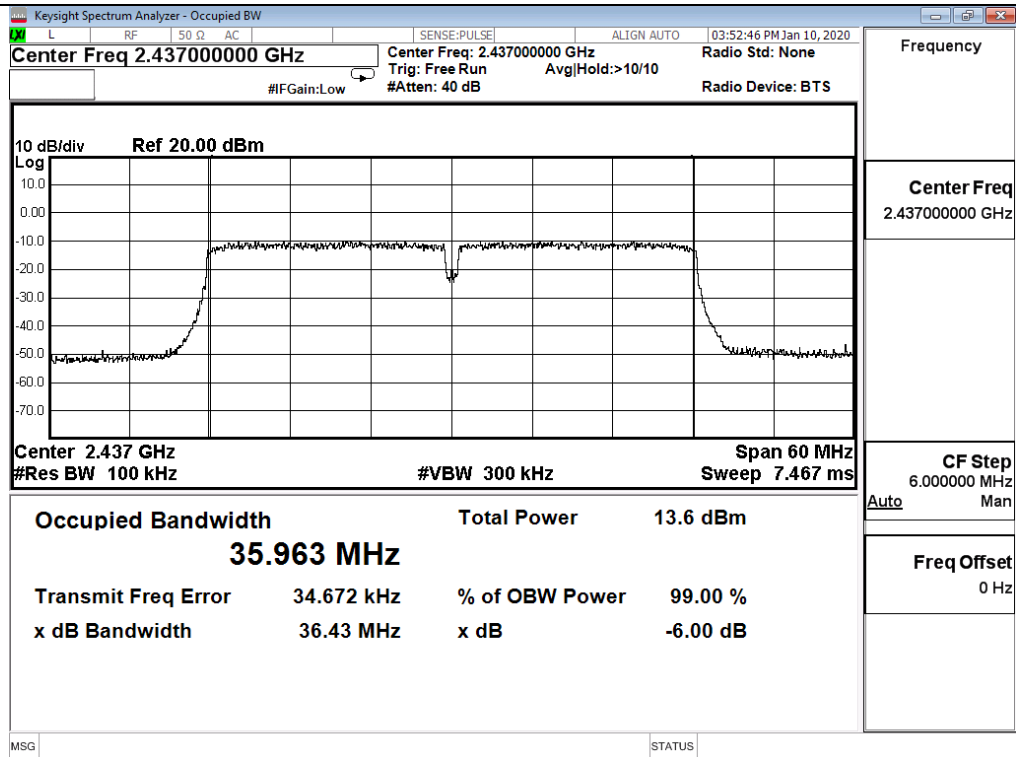
11N20SISO/HCH



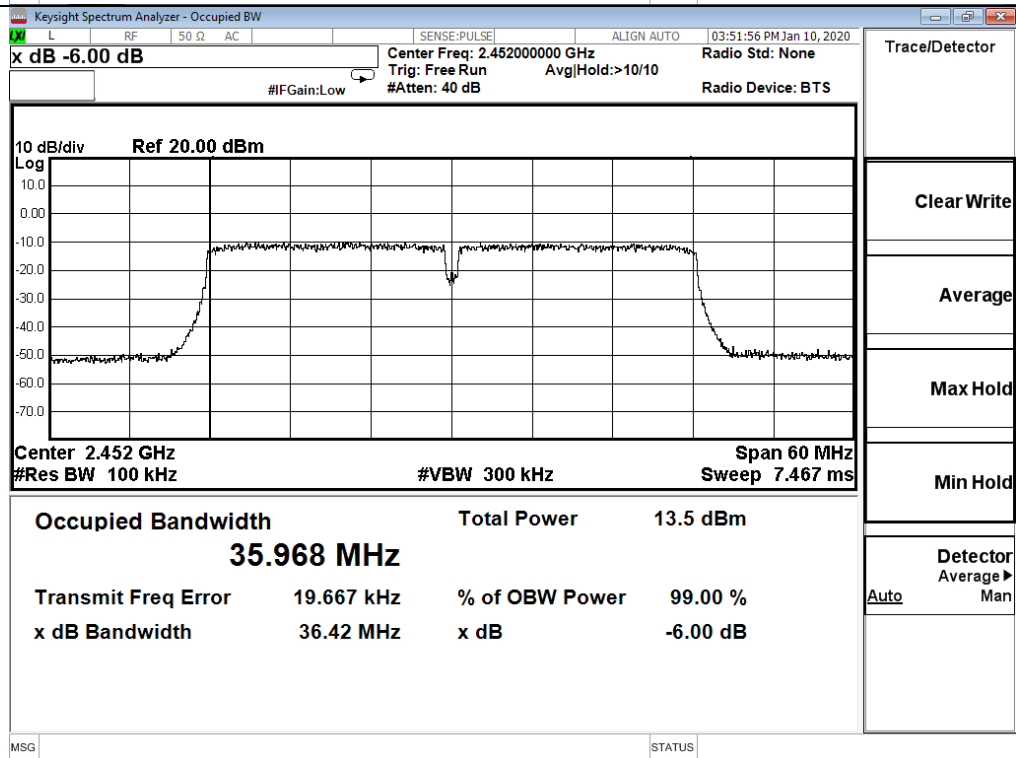
11N40SISO/LCH



11N40SISO/MCH

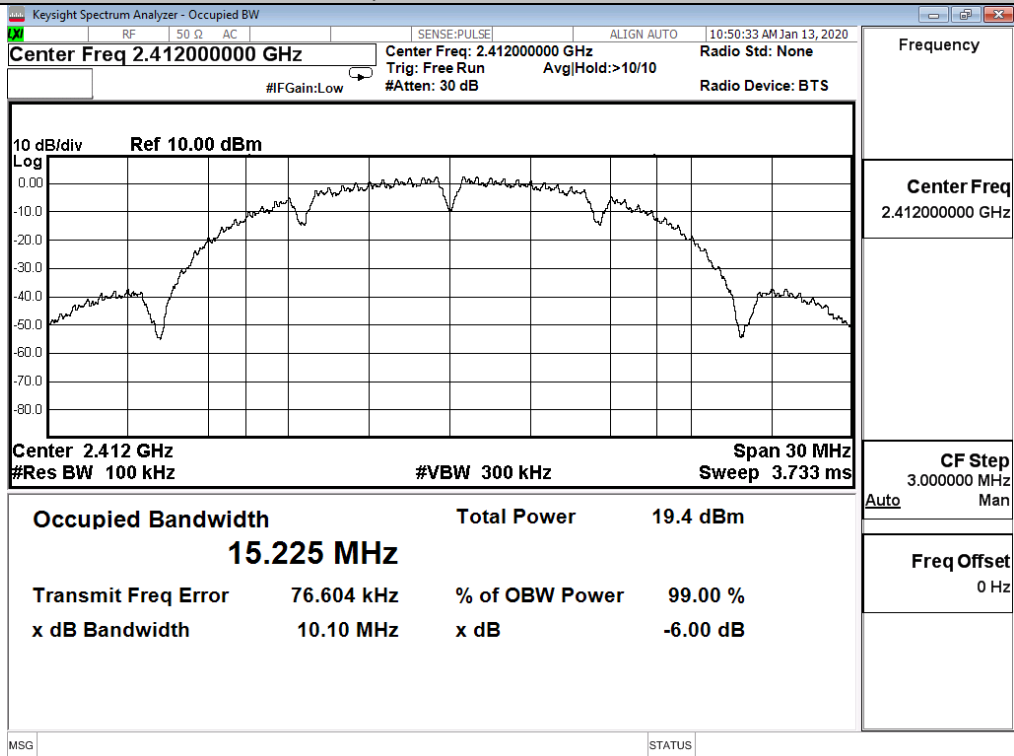


11N40SISO/HCH

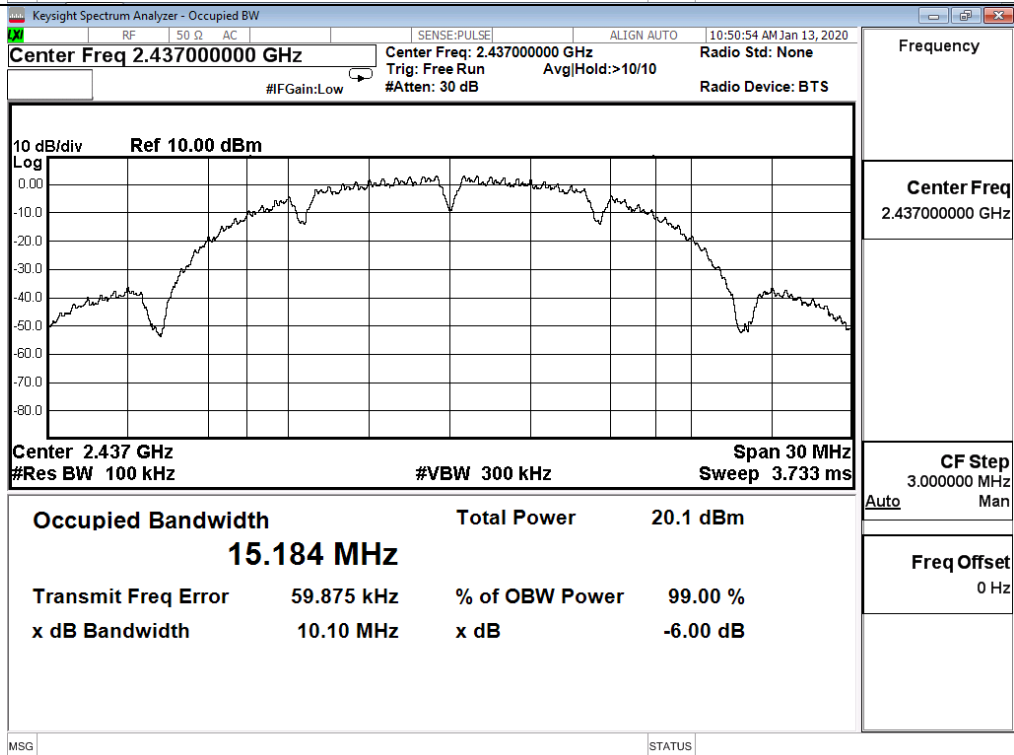


Test Graphs_Ant2

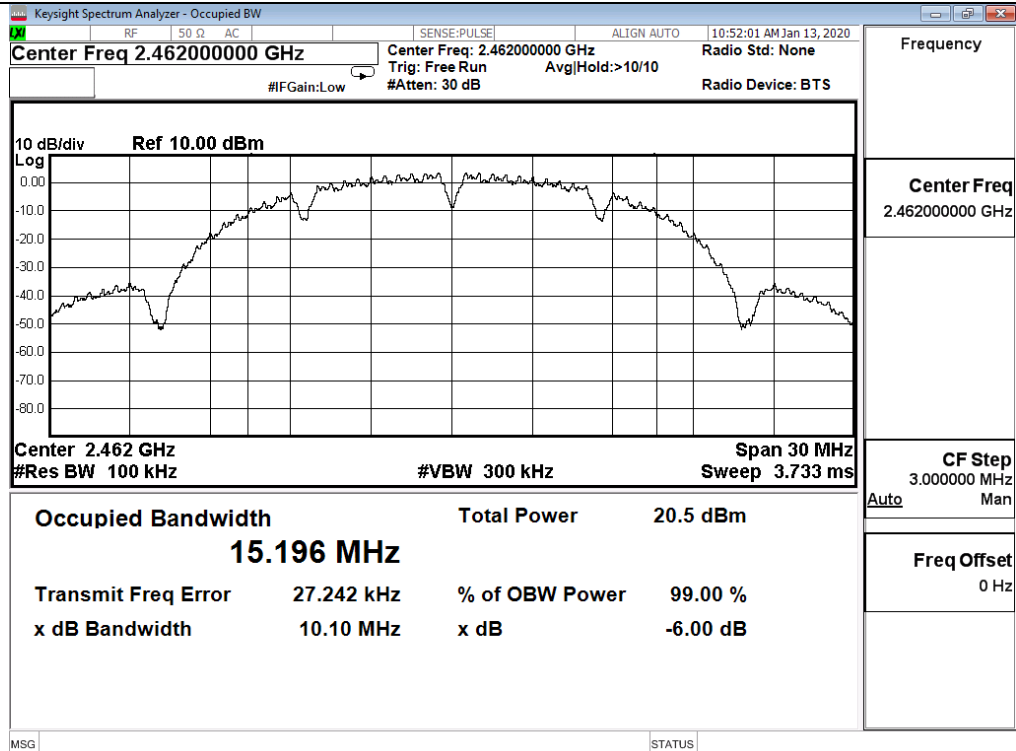
11B/LCH



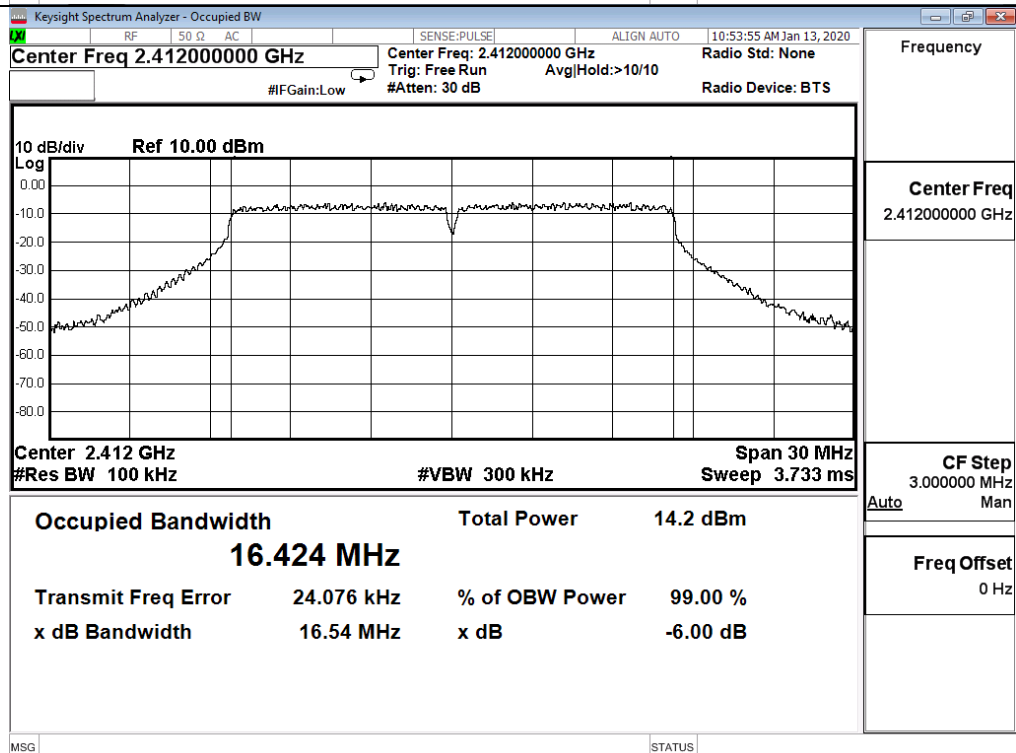
11B/MCH



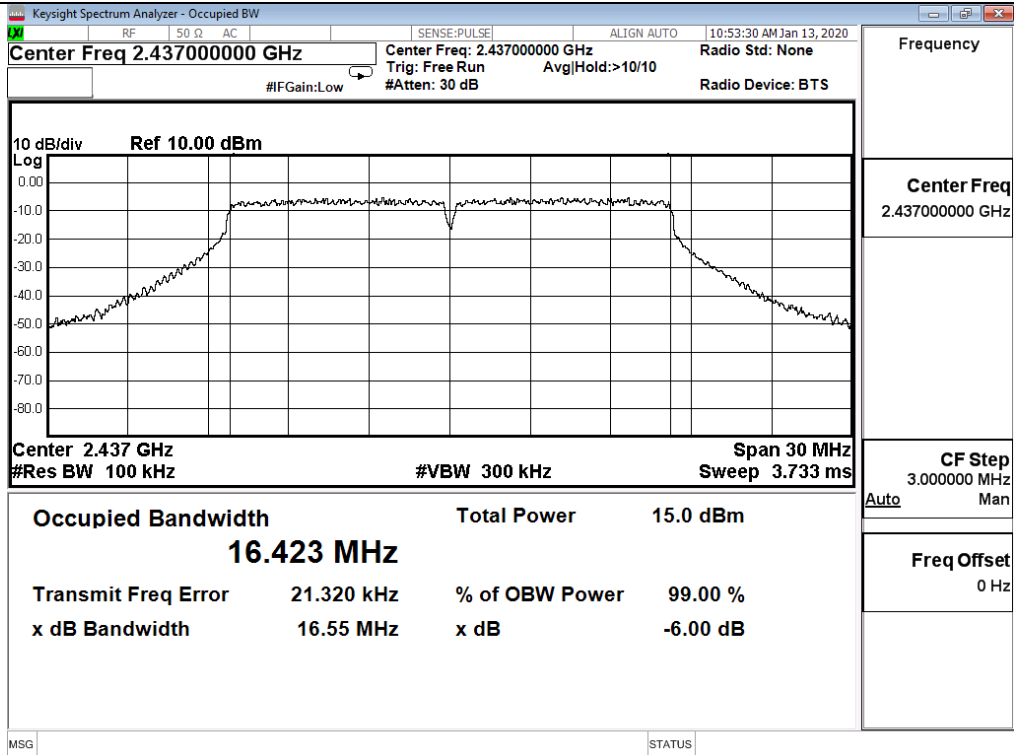
11B/HCH



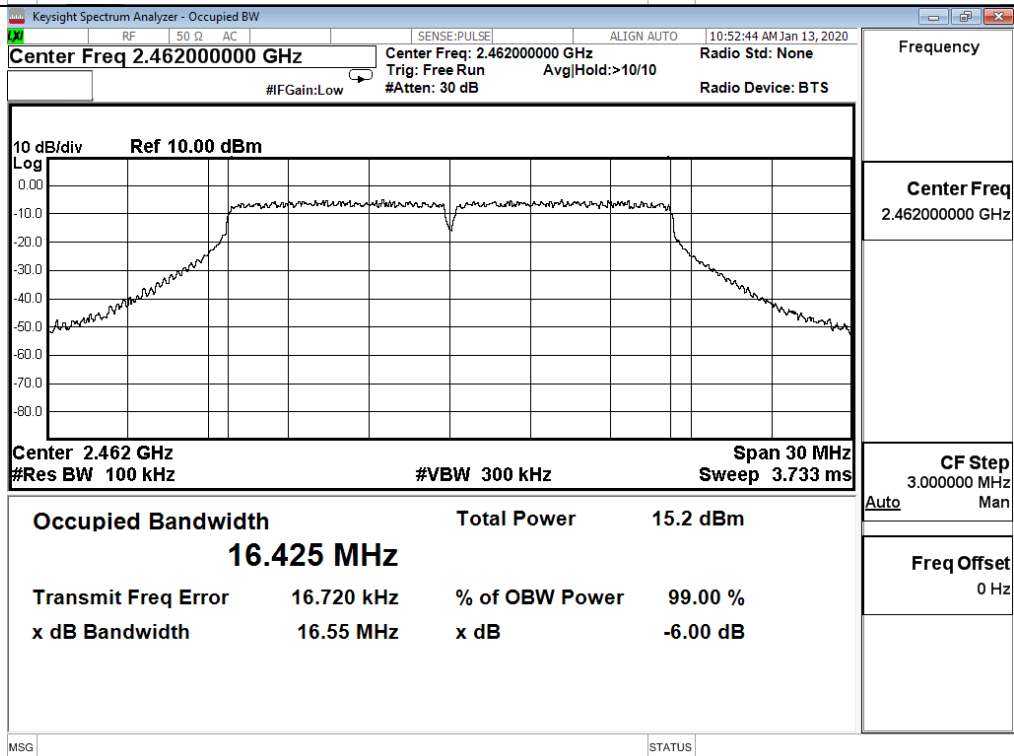
11G/LCH



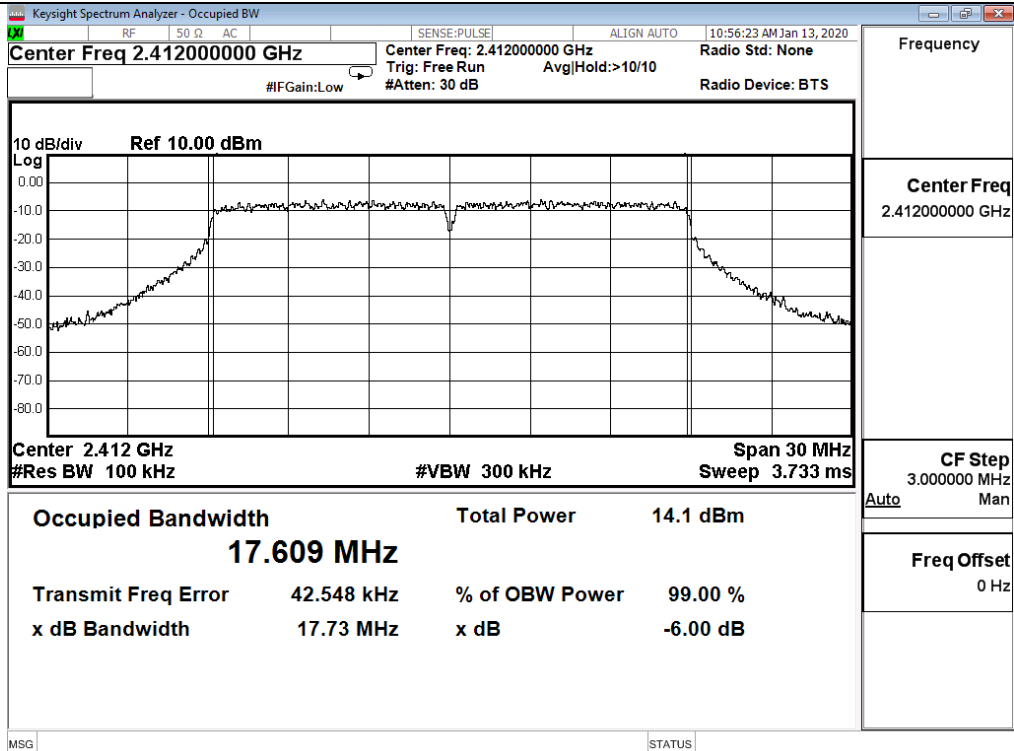
11G/MCH



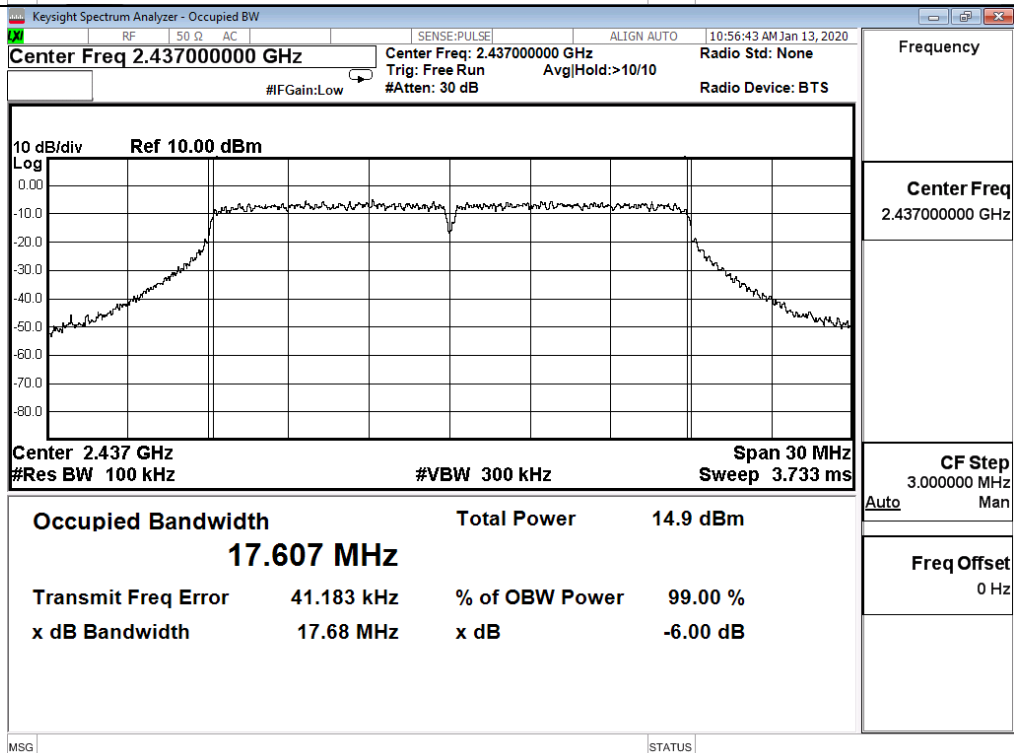
11G/HCH



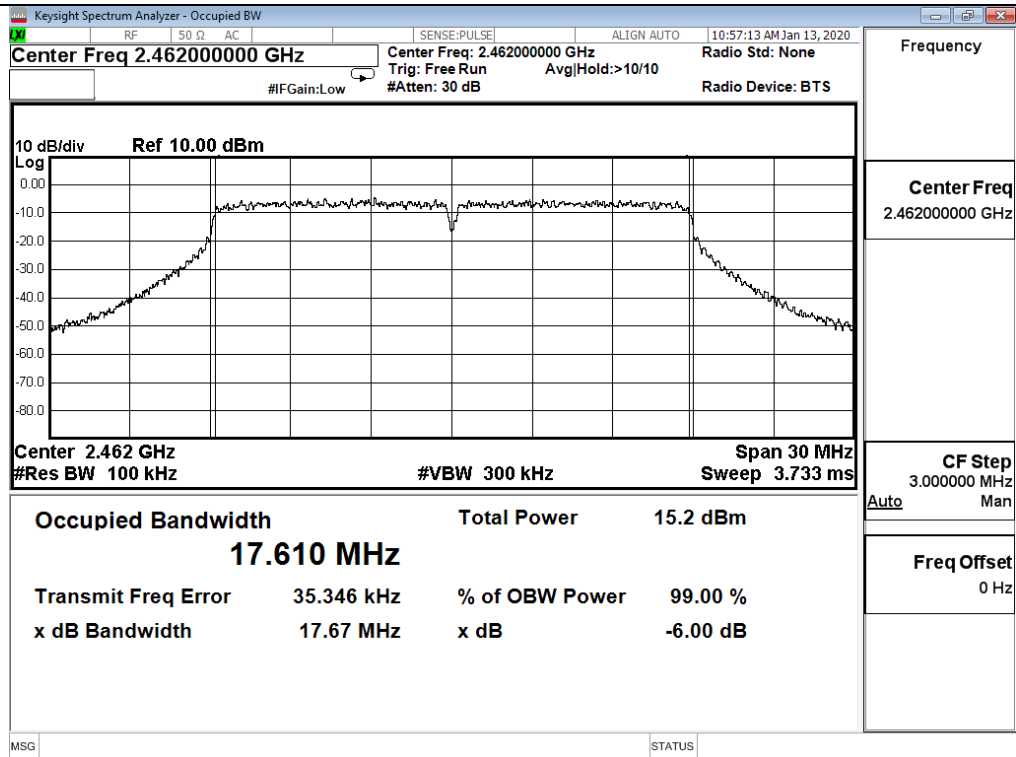
11N20SISO/LCH



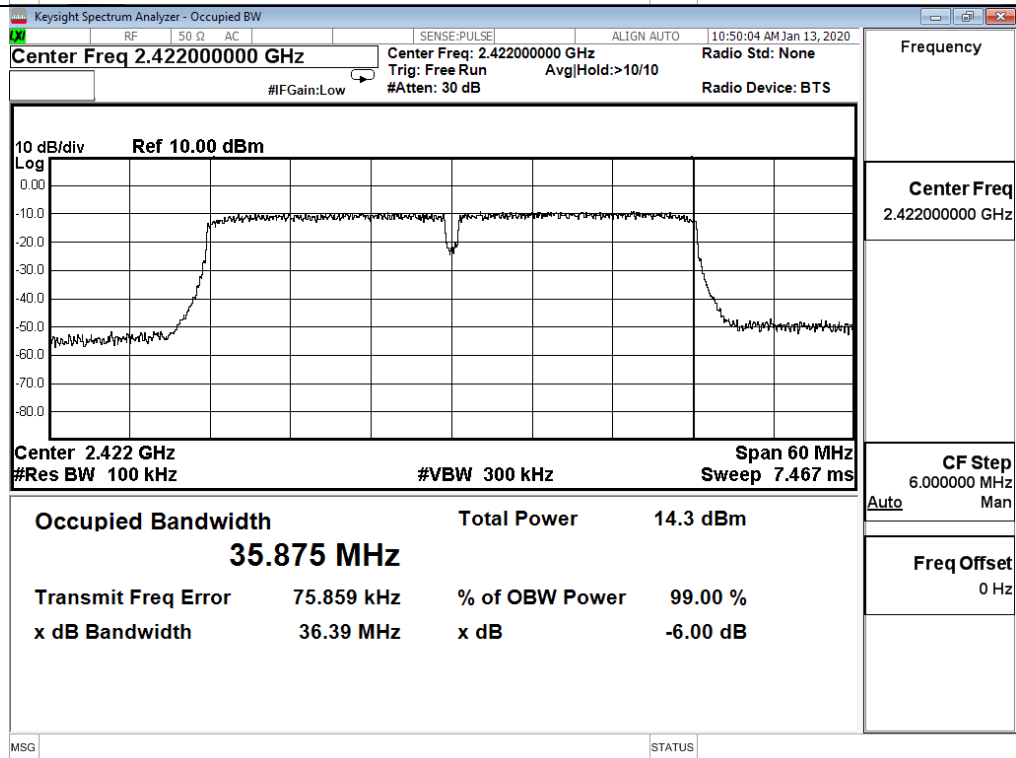
11N20SISO/MCH



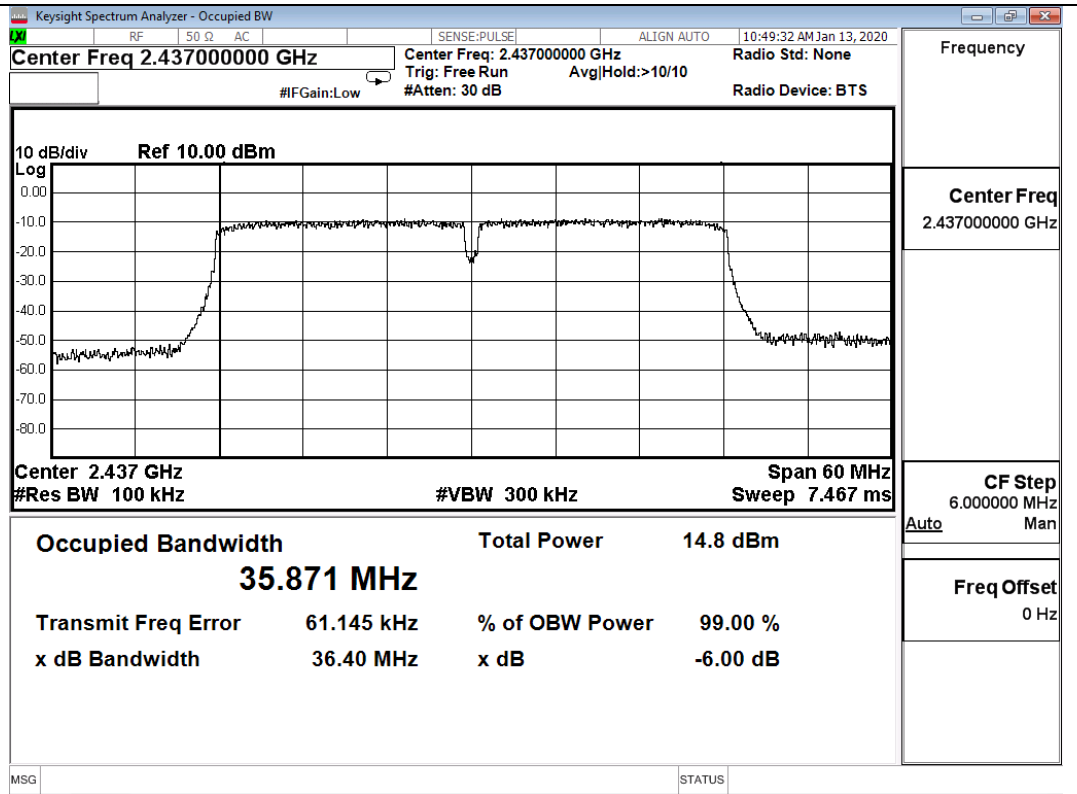
11N20SISO/HCH



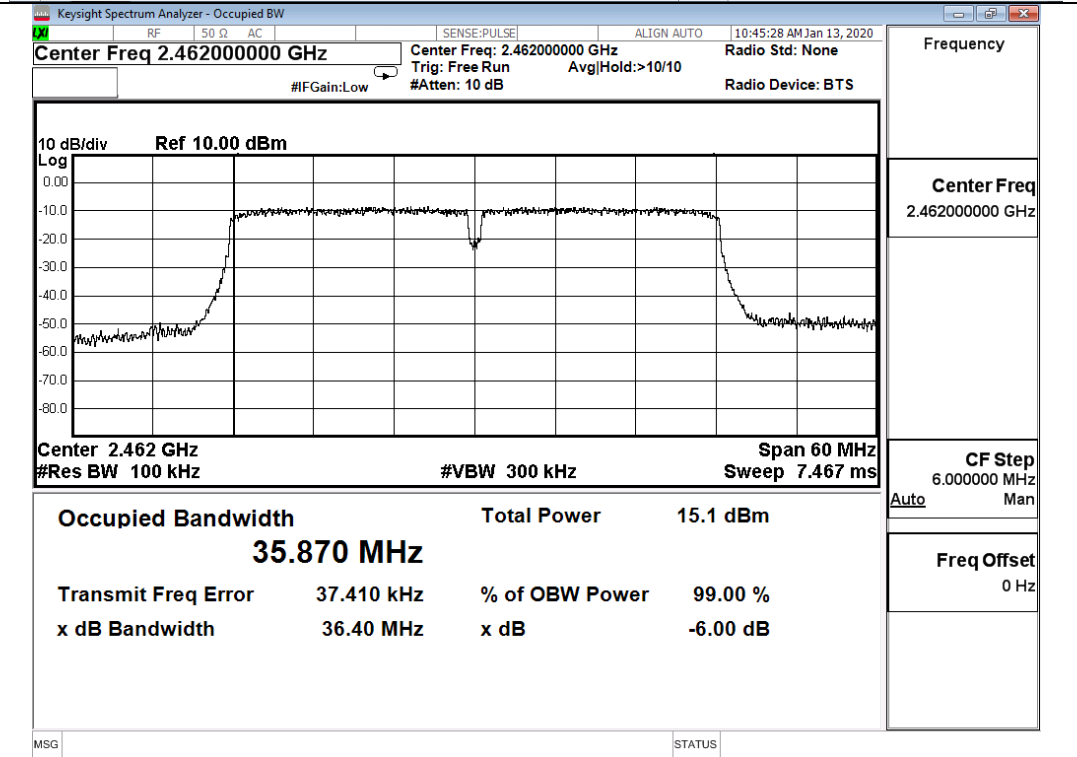
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH

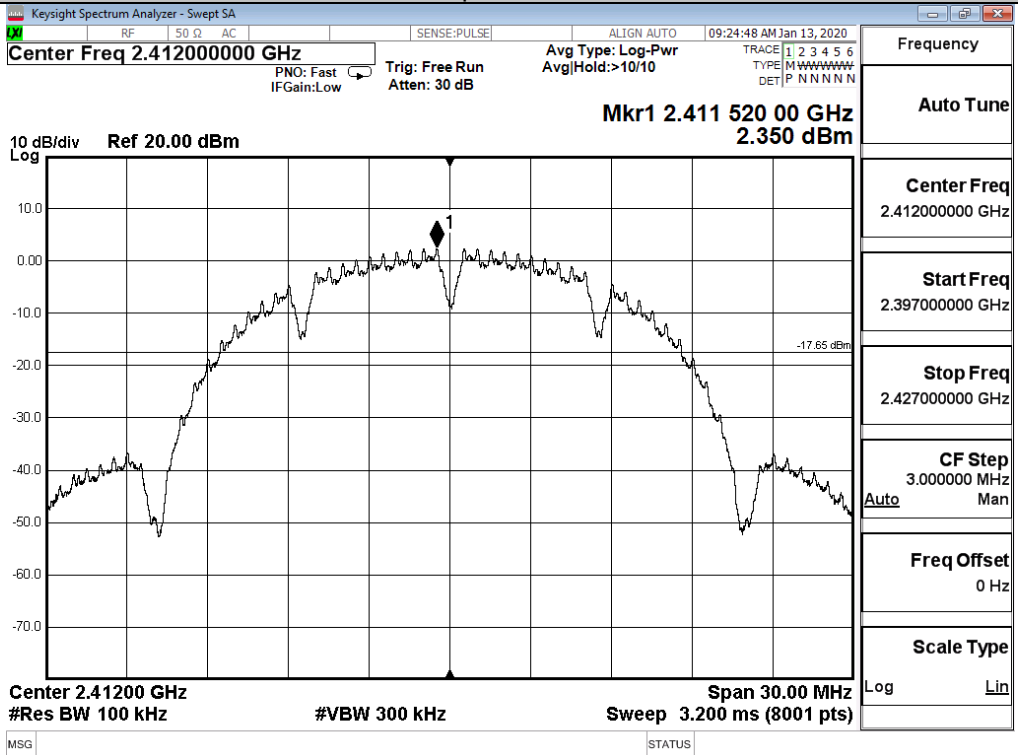


A.4 RF Conducted Spurious Emissions

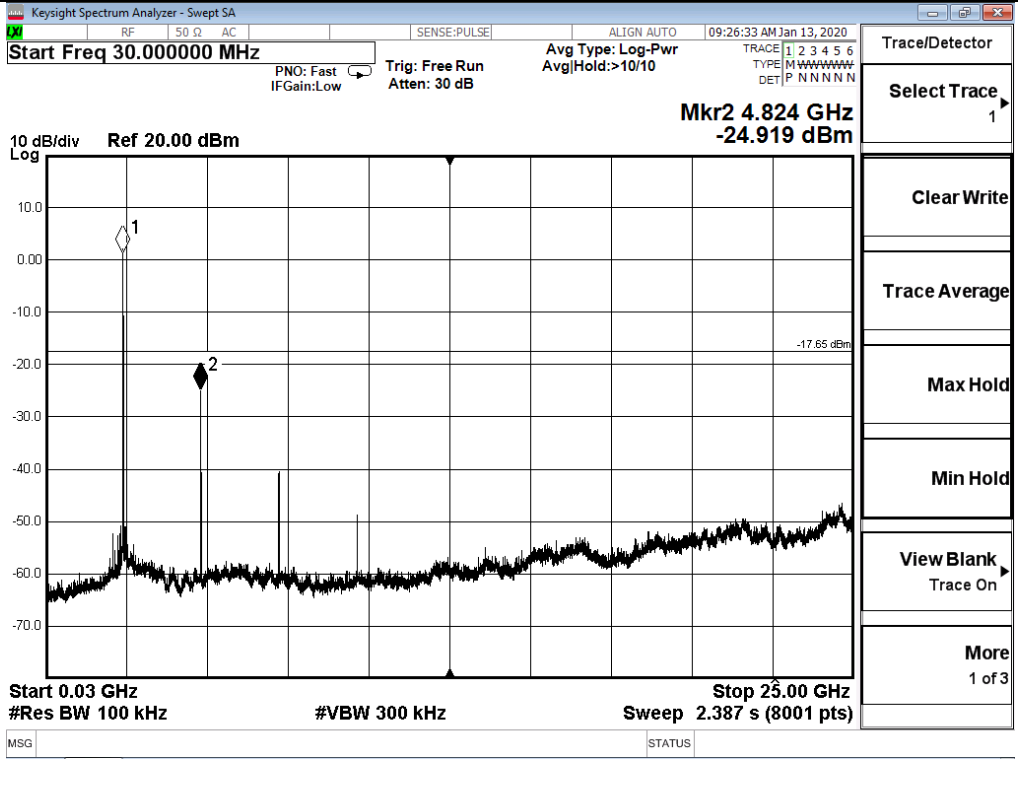
Mode	Channel	Antenna	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	Ant1	2.350	-24.919	-17.65	PASS
	MCH	Ant1	2.562	-27.250	-17.44	PASS
	HCH	Ant1	2.339	-32.736	-17.66	PASS
11G	LCH	Ant1	-5.982	-41.866	-25.98	PASS
	MCH	Ant1	-5.784	-45.975	-28.78	PASS
	HCH	Ant1	-5.869	-48.505	-25.87	PASS
11N20SISO	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

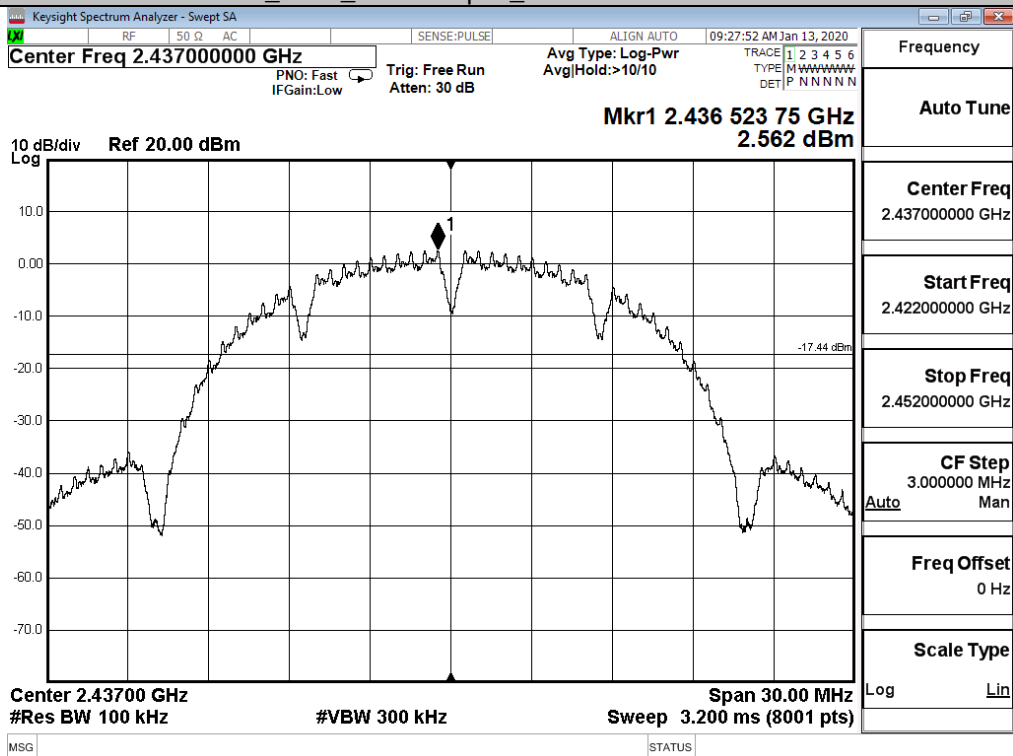


Puw/11B/LCH

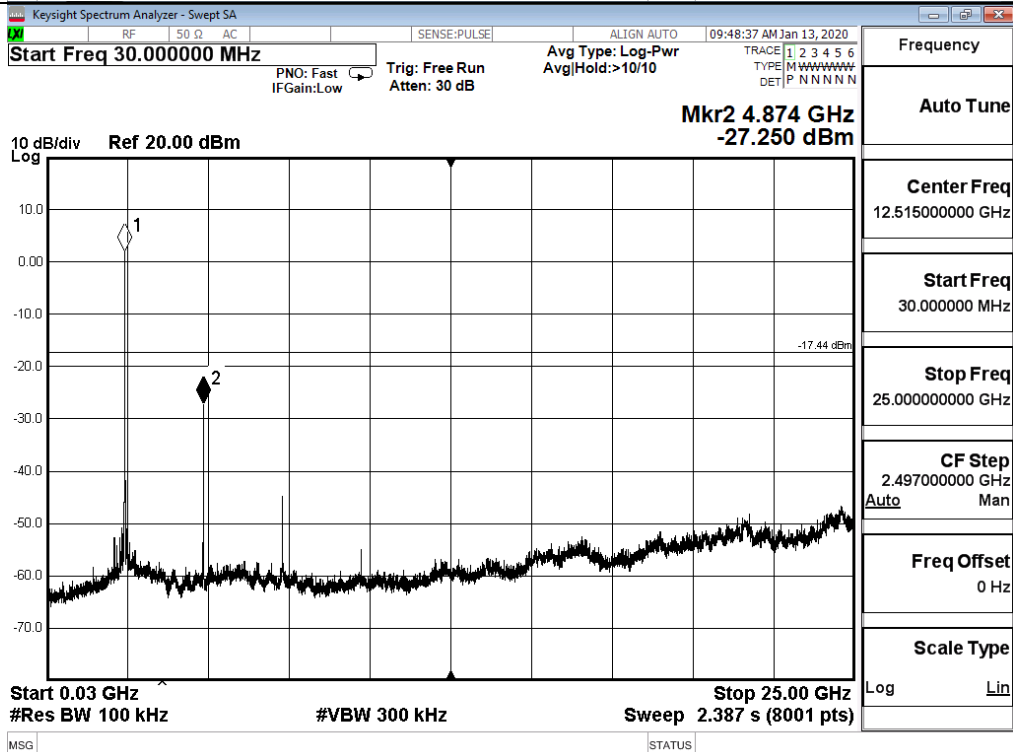


11B_MCH_Test Graphs_Ant1

Pref/11B/MCH

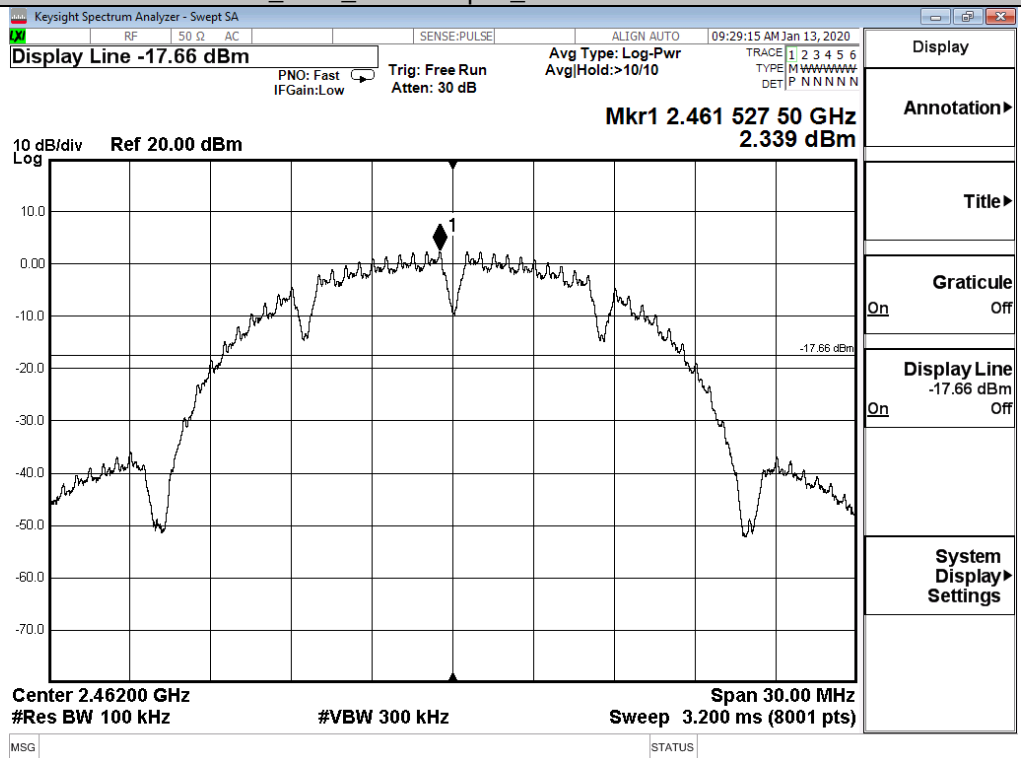


Puw/11B/MCH

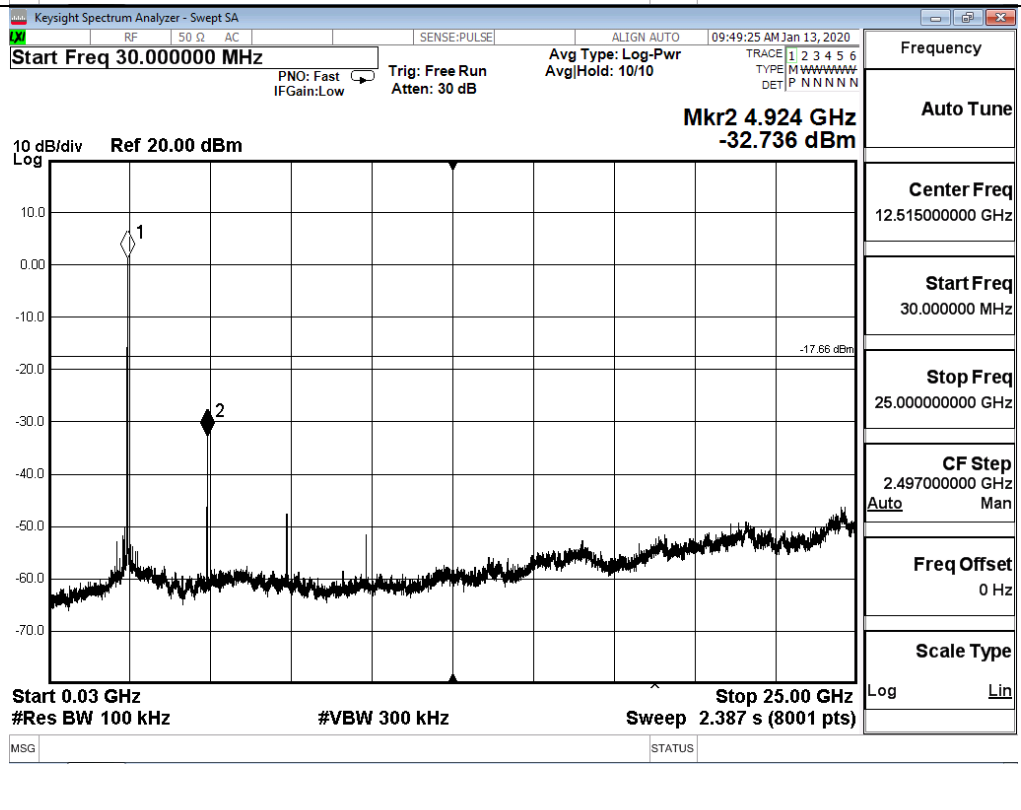


11B_HCH_Test Graphs_Ant1

Pref/11B/HCH



Puw/11B/HCH

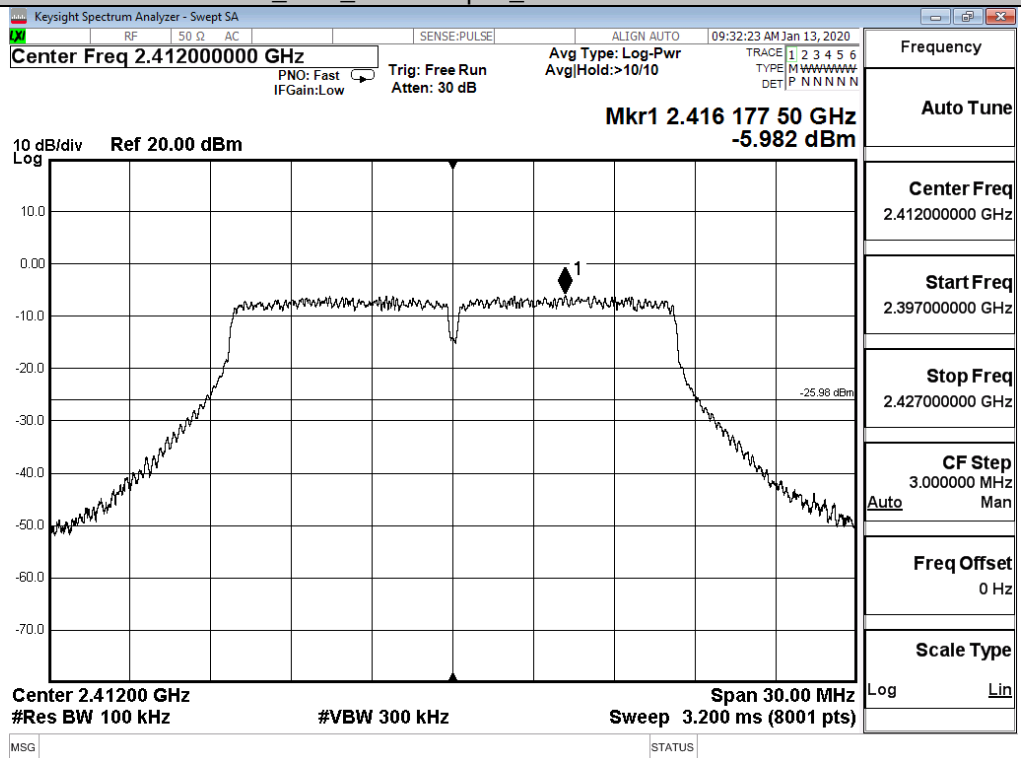


Display	
Annotation	
Title	
Graticule	On Off
Display Line	On Off
System Display Settings	

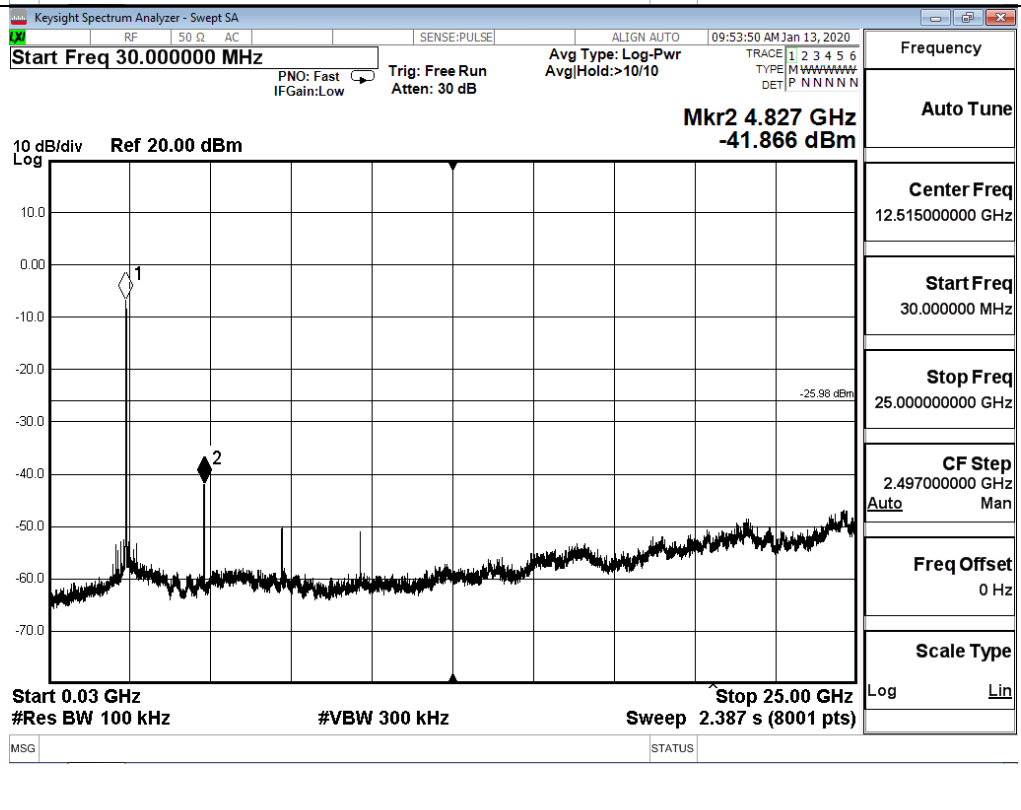
Frequency	
Auto Tune	
Center Freq	12.515000000 GHz
Start Freq	30.000000 MHz
Stop Freq	25.000000000 GHz
CF Step	2.497000000 GHz
Auto	Man
Freq Offset	0 Hz
Scale Type	Log Lin

11G_LCH_Test Graphs_Ant1

Pref/11G/LCH

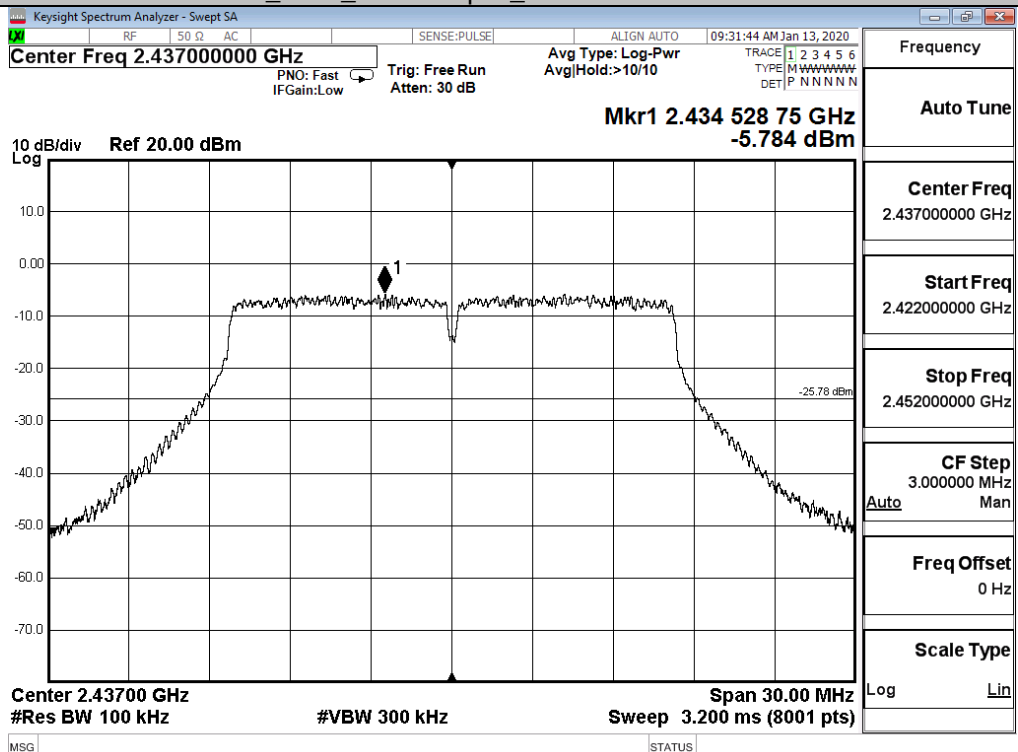


Puw/11G/LCH

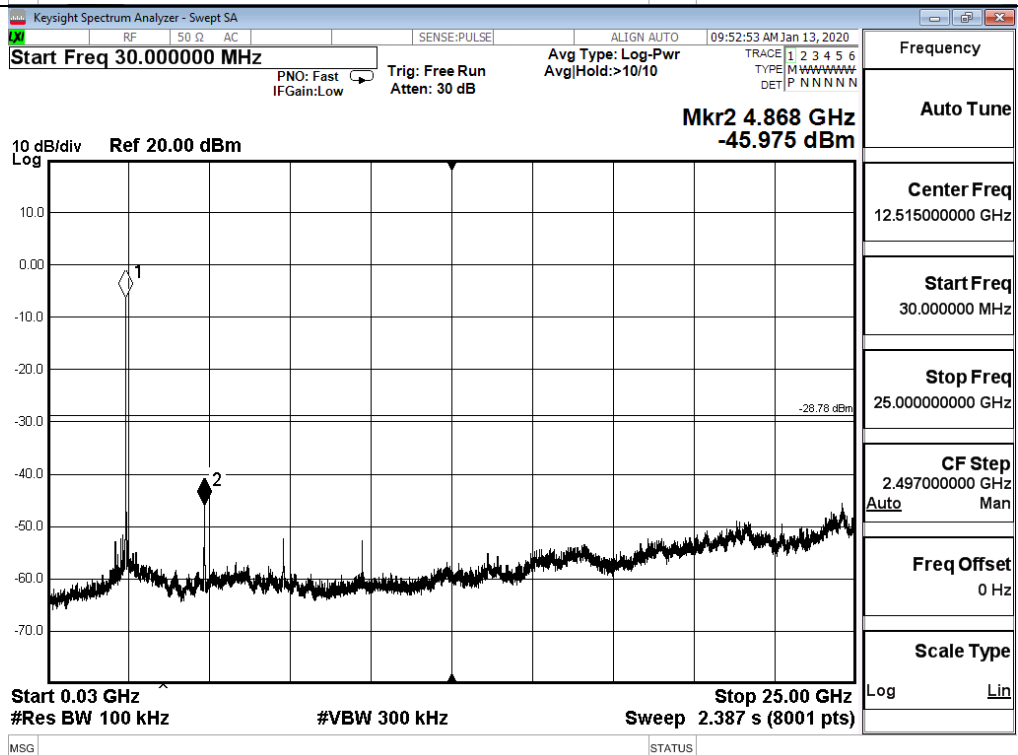


11G_MCH_Test Graphs_Ant1

Pref/11G/MCH

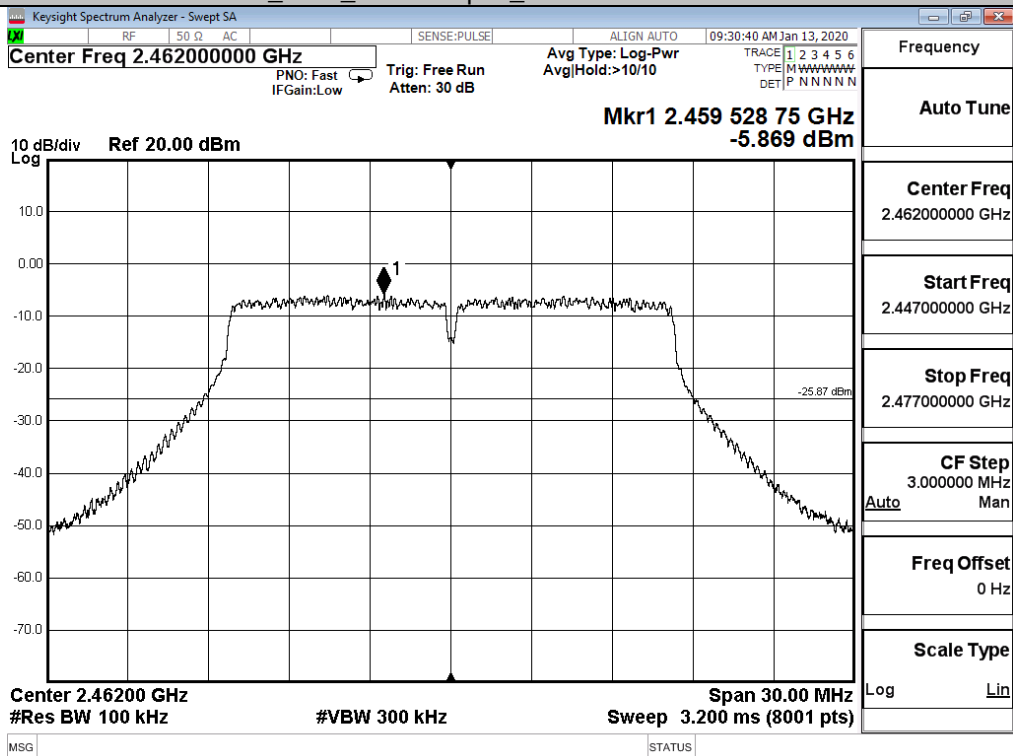


Puw/11G/MCH

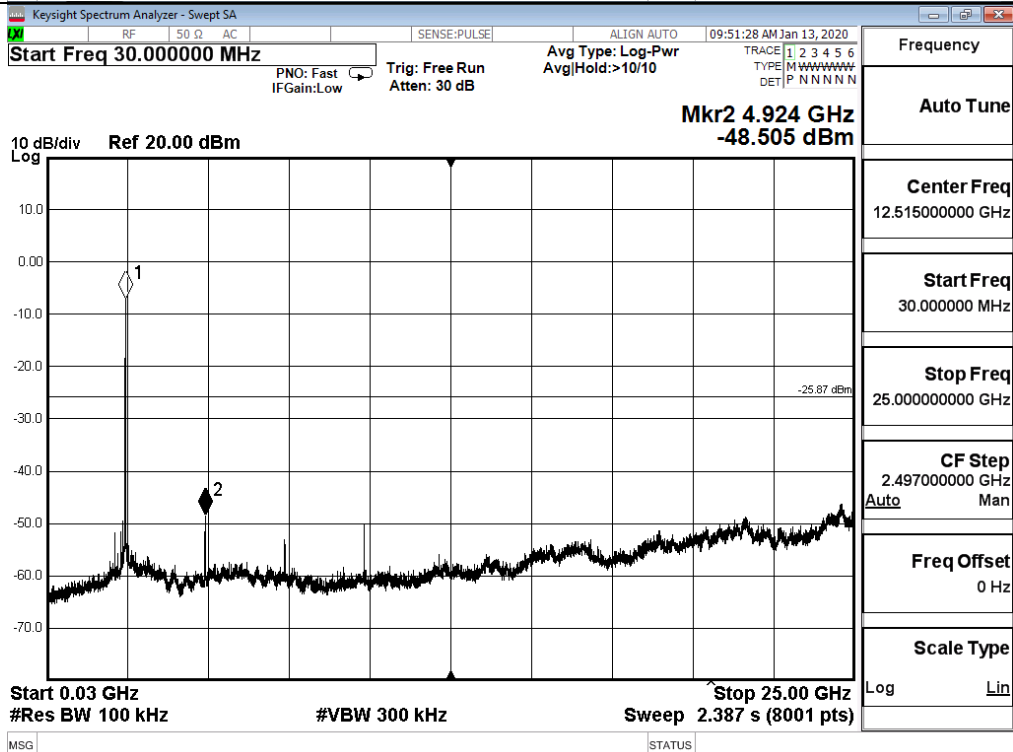


11G_HCH_Test Graphs_Ant1

Pref/11G/HCH

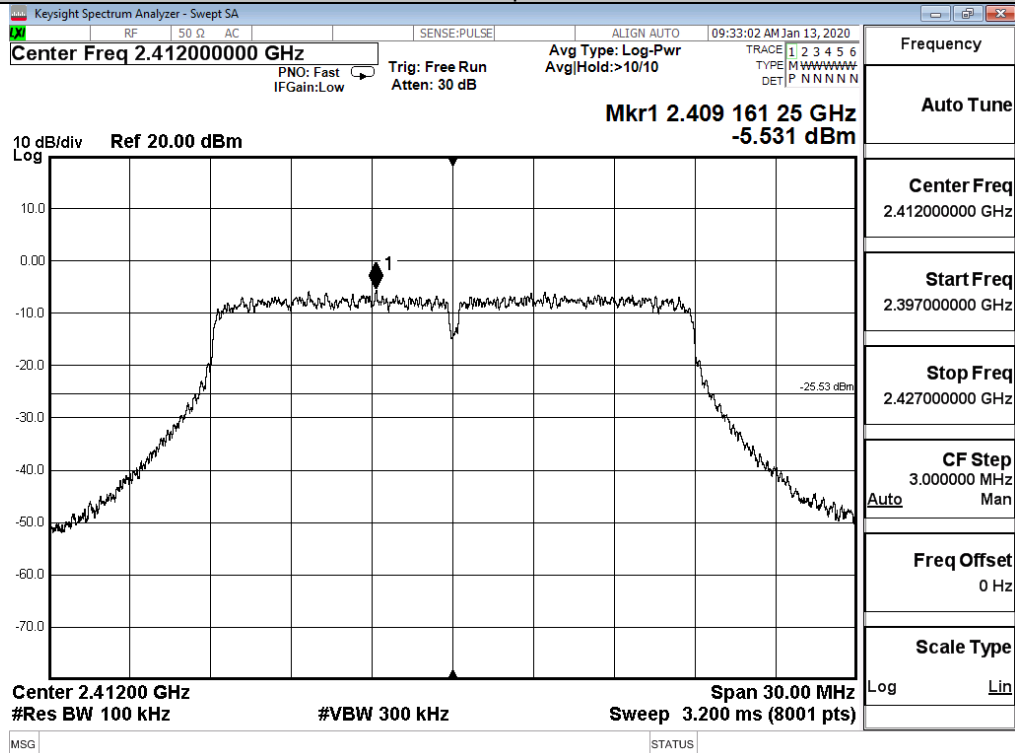


Puw/11G/HCH

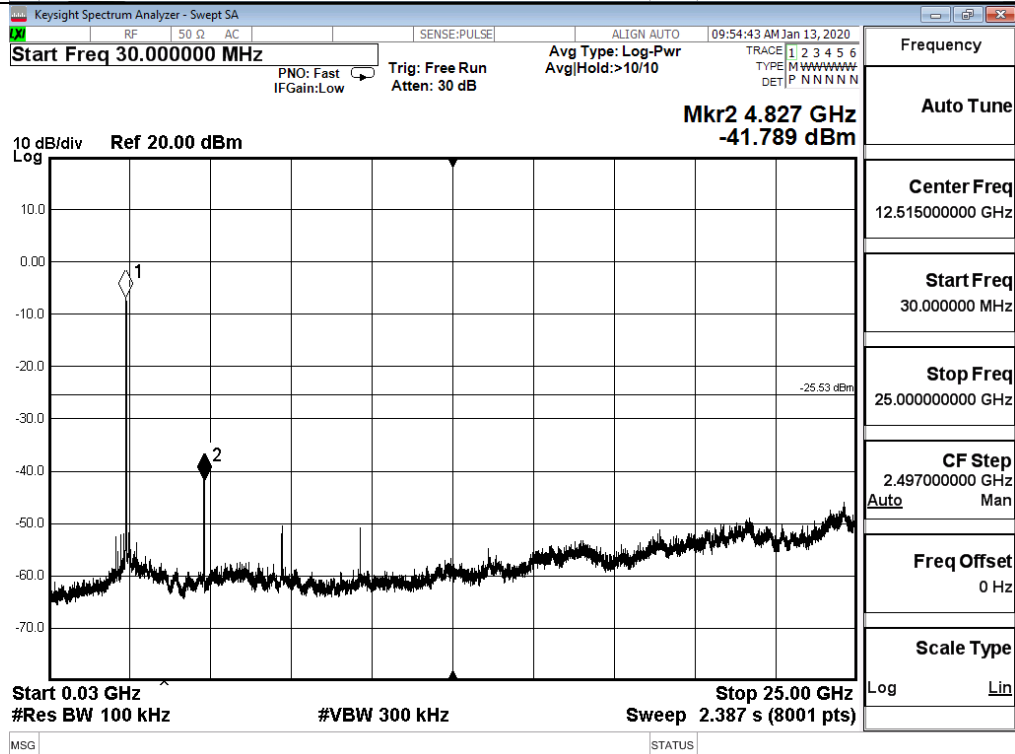


11N20SISO_LCH_Test Graphs_Ant1

Pref/11N20SIS
O/LCH

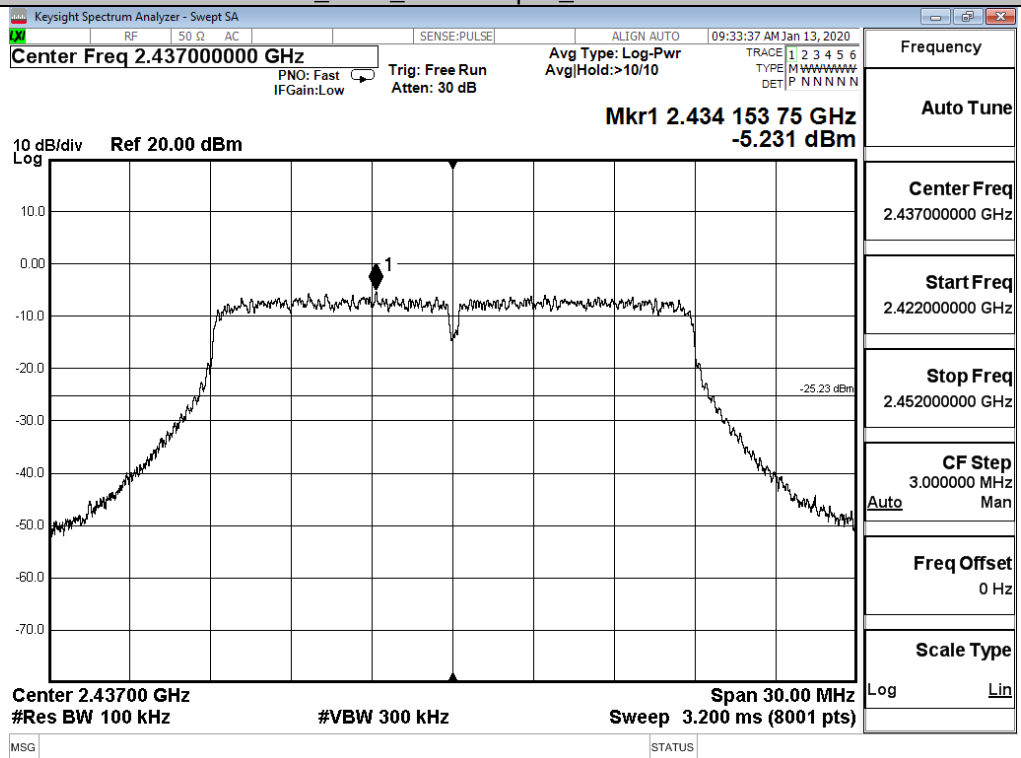


Puw/11N20
SISO/LCH

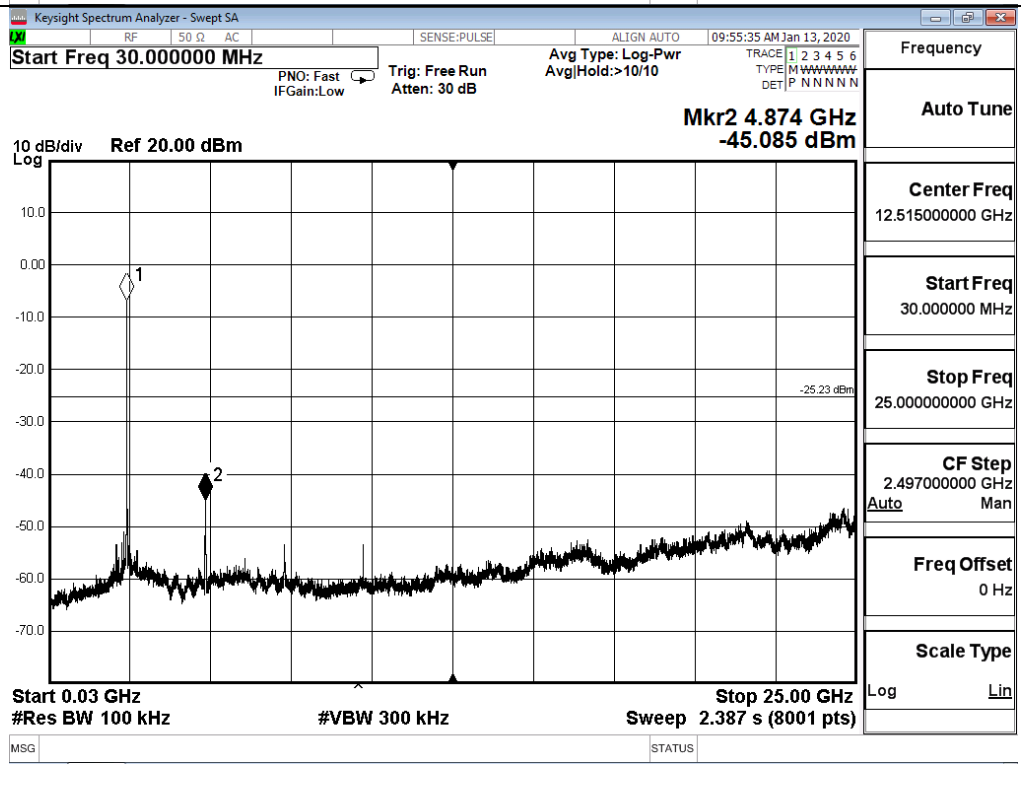


11N20SISO_MCH_Test Graphs_Ant1

Pref/11N20
SISO/MCH

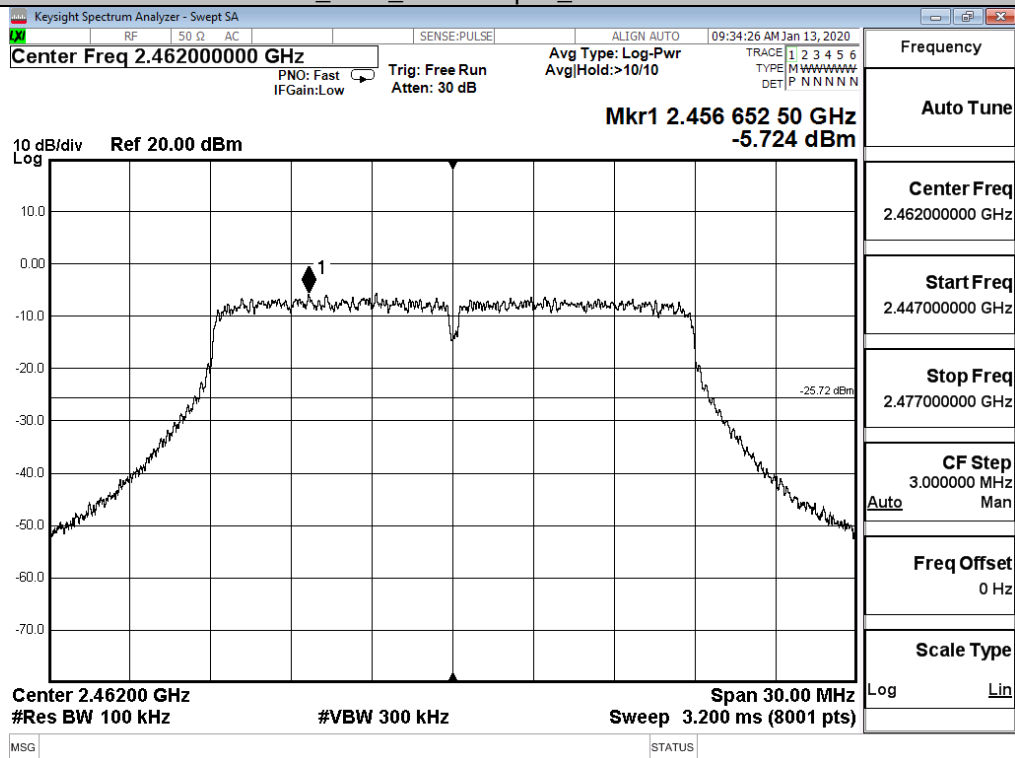


Puw/11N20
SISO/MCH

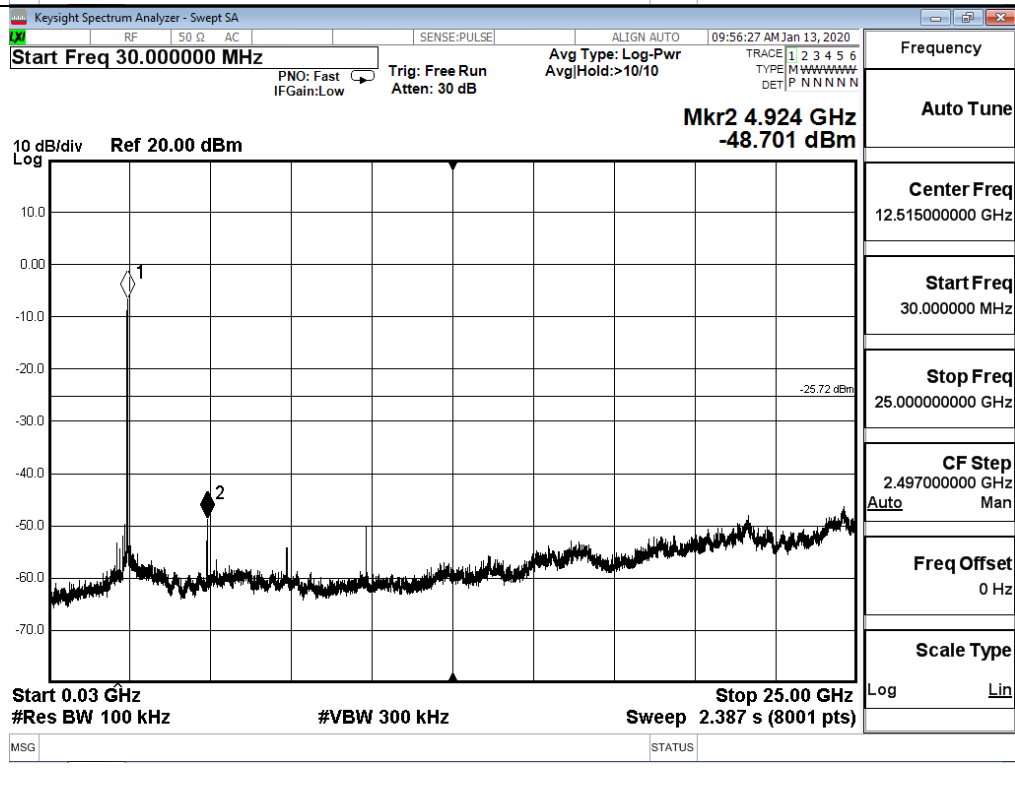


11N20SISO_HCH_Test Graphs_Ant1

Pref/11N20
SISO/HCH

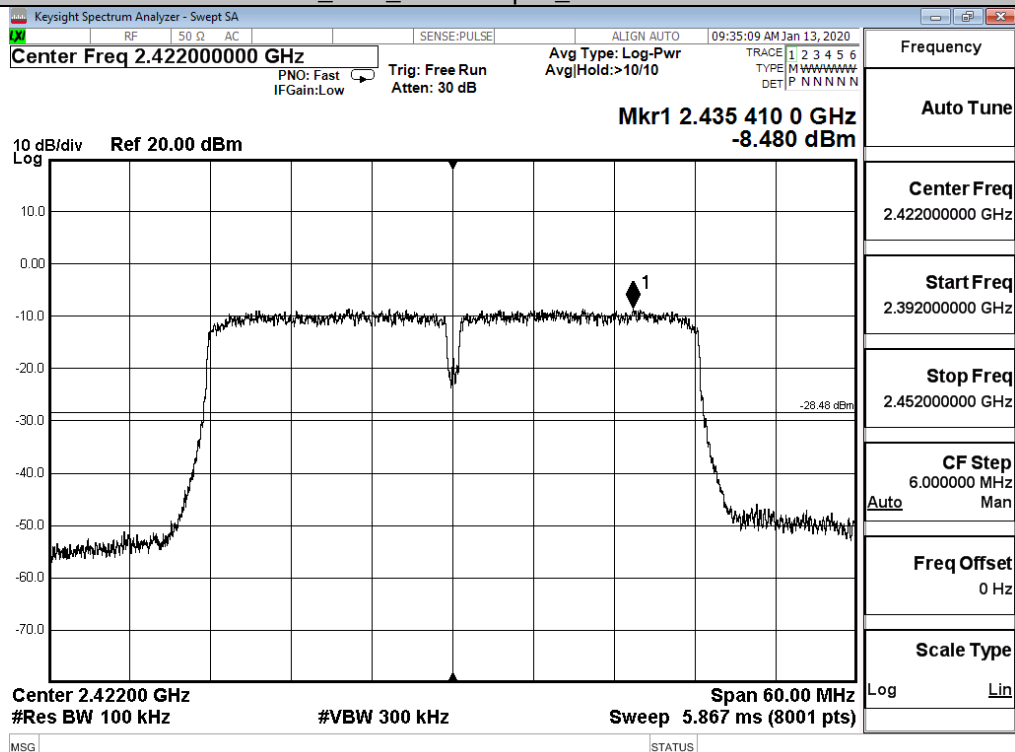


Puw/11N20
SISO/HCH

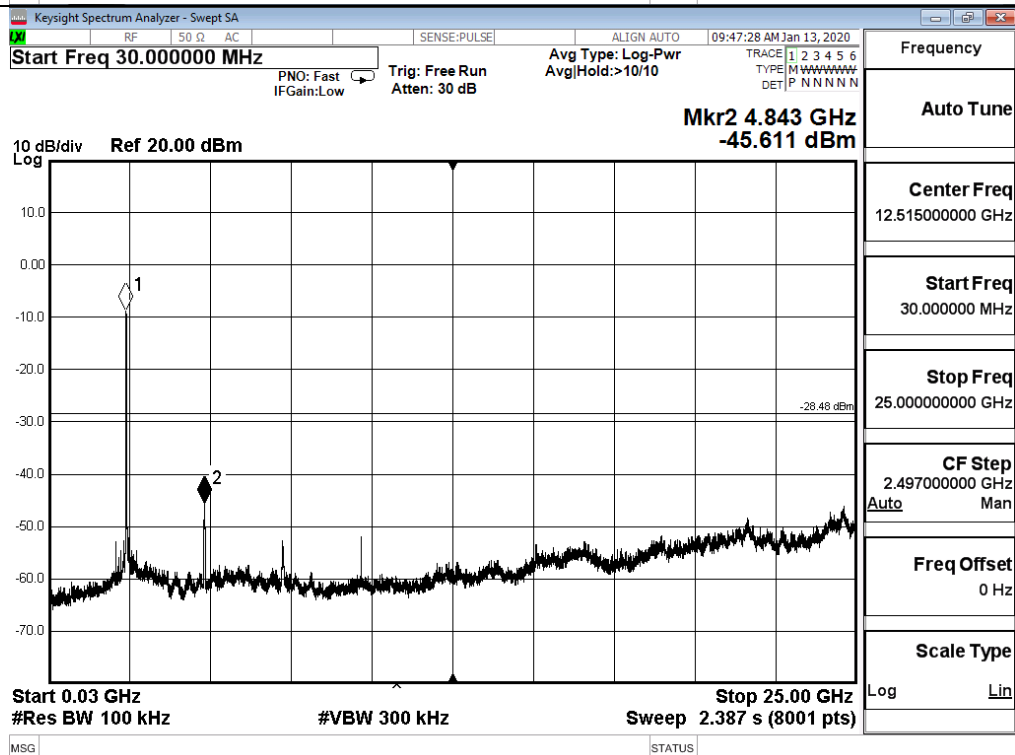


11N40SISO_LCH_Test Graphs_Ant1

Pref/11N40
SISO/LCH

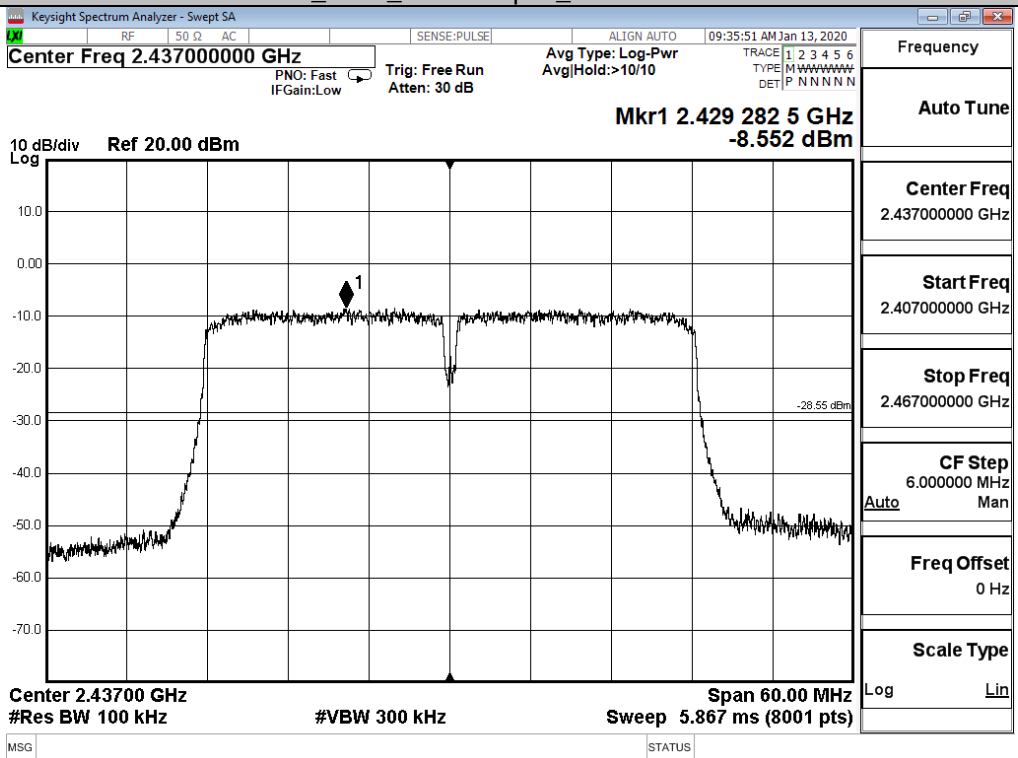


Puw/11N40
SISO/LCH

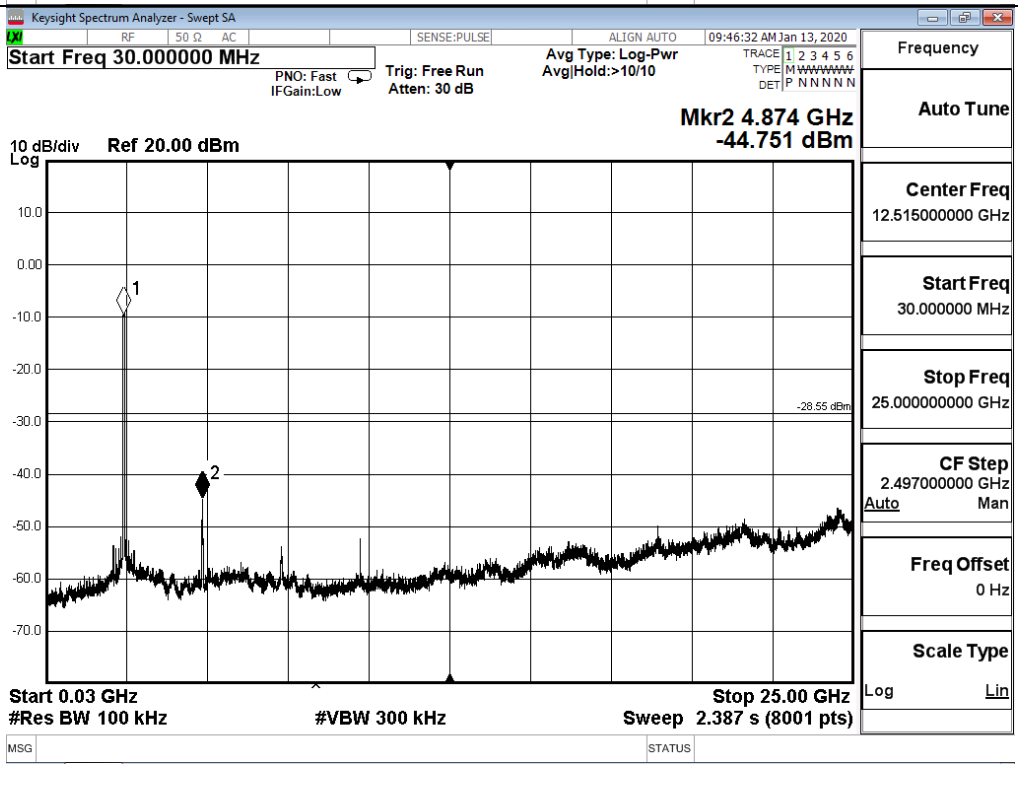


11N40SISO_MCH_Test Graphs_Ant1

Pref/11N40
SISO/MCH

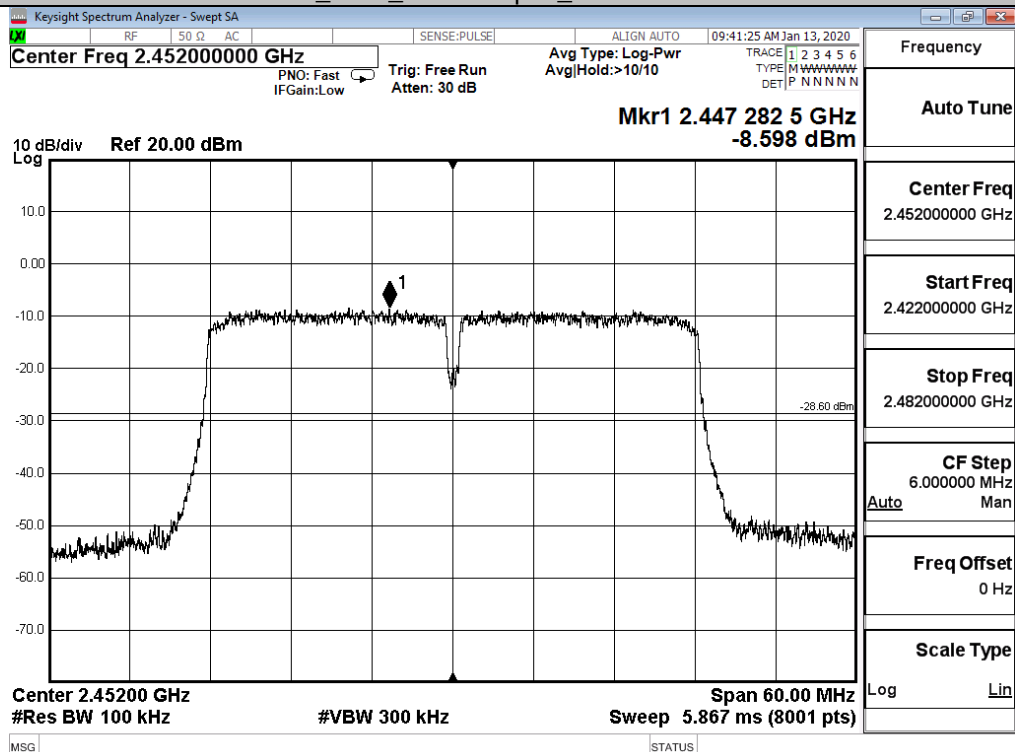


Puw/11N40
SISO/MCH

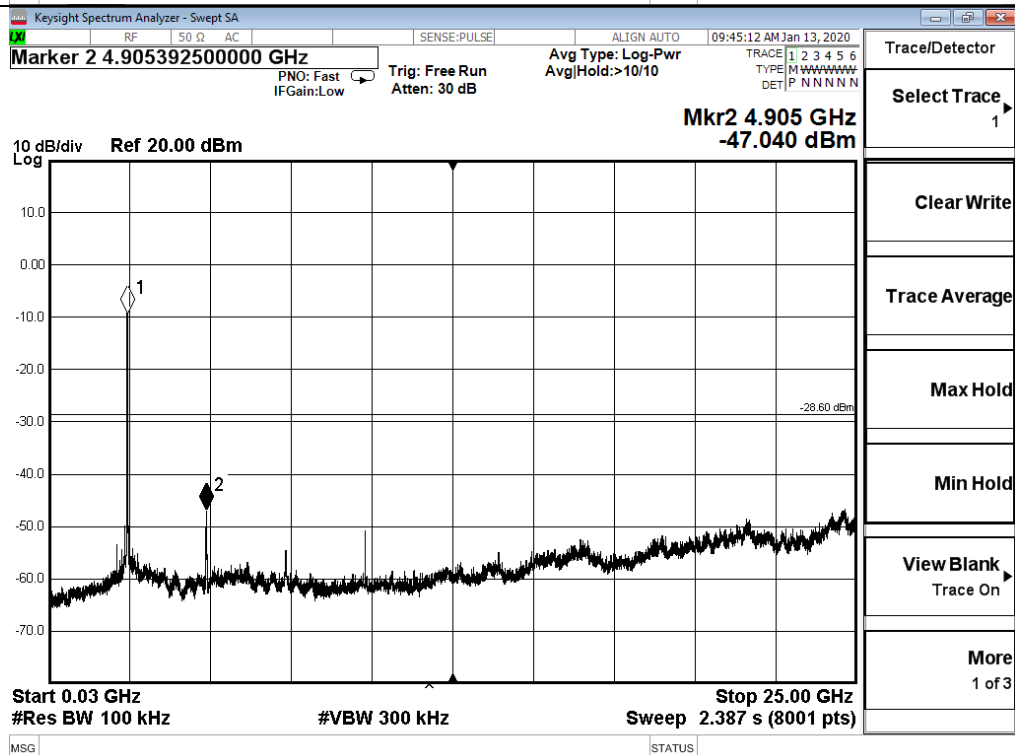


11N40SISO_HCH_Test Graphs_Ant1

Pref/11N40
SISO/HCH

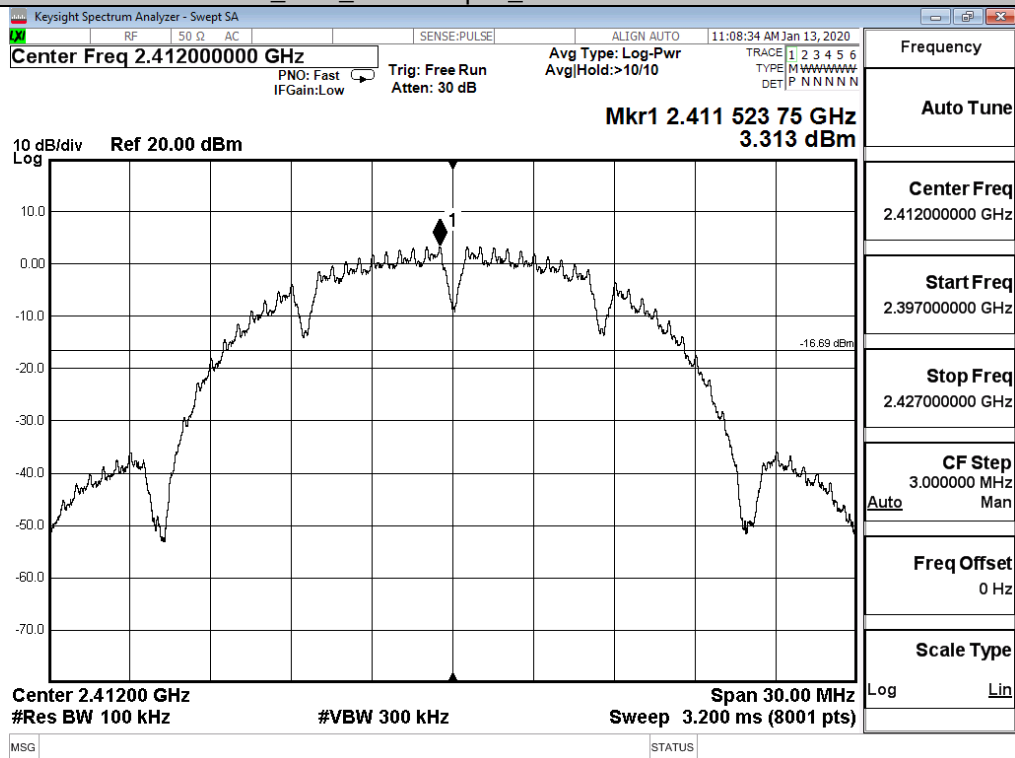


Puw/11N40
SISO/HCH

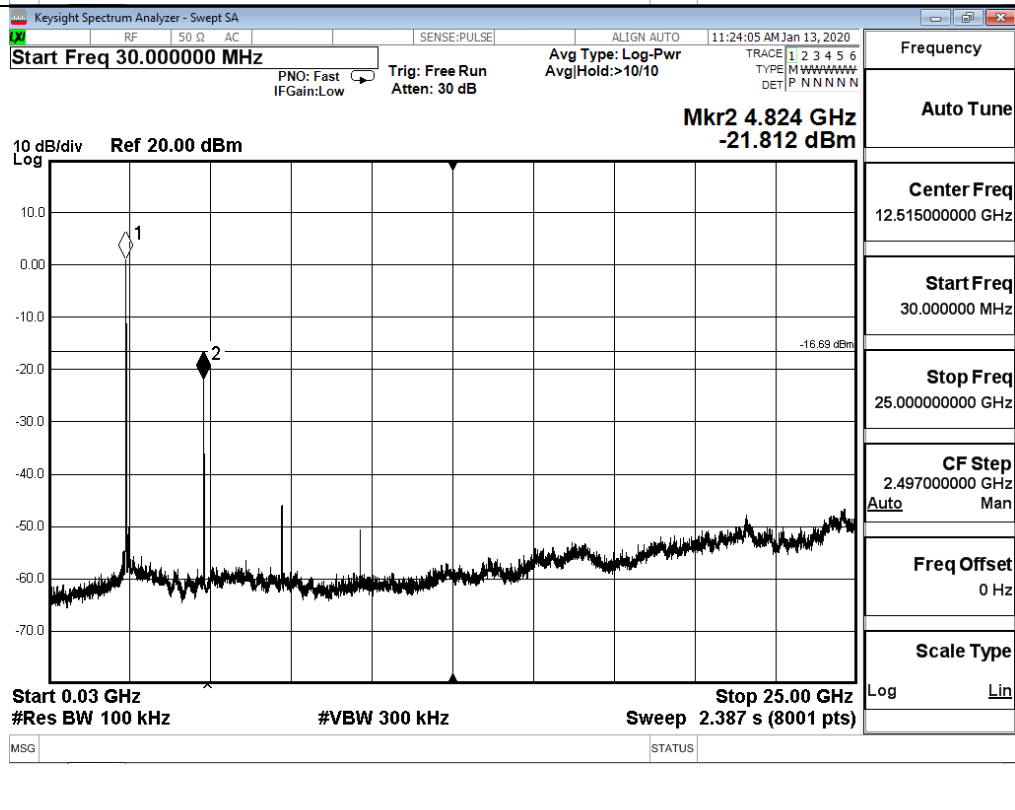


11B_LCH_Test Graphs_Ant2

Pref/11B/LCH

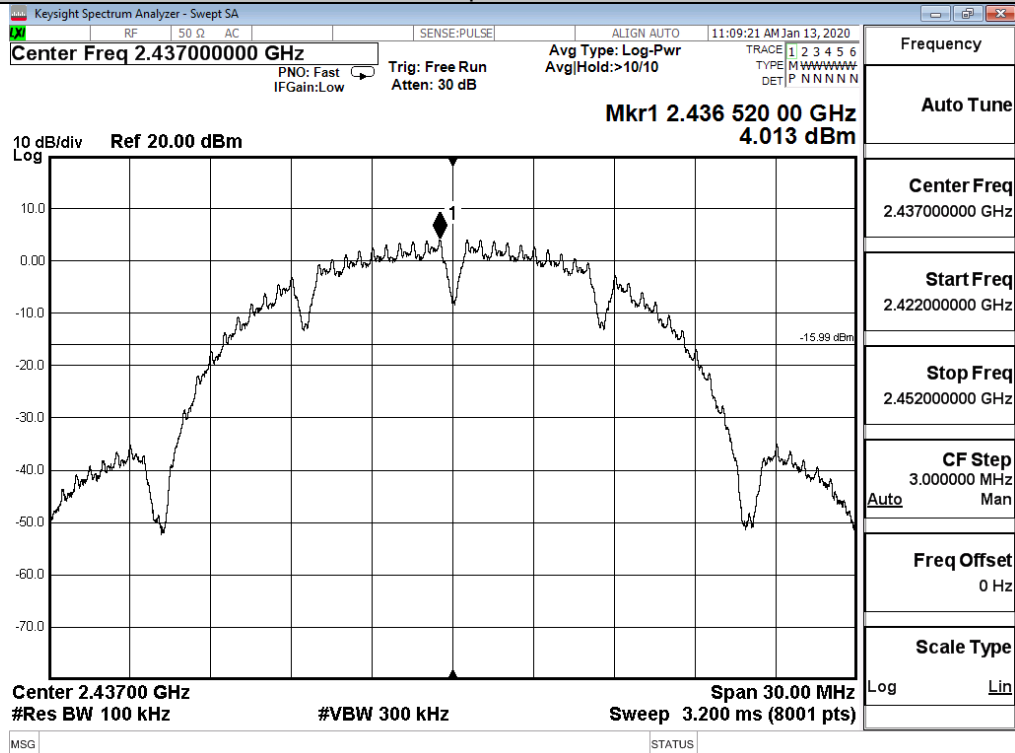


Puw/11B/LCH

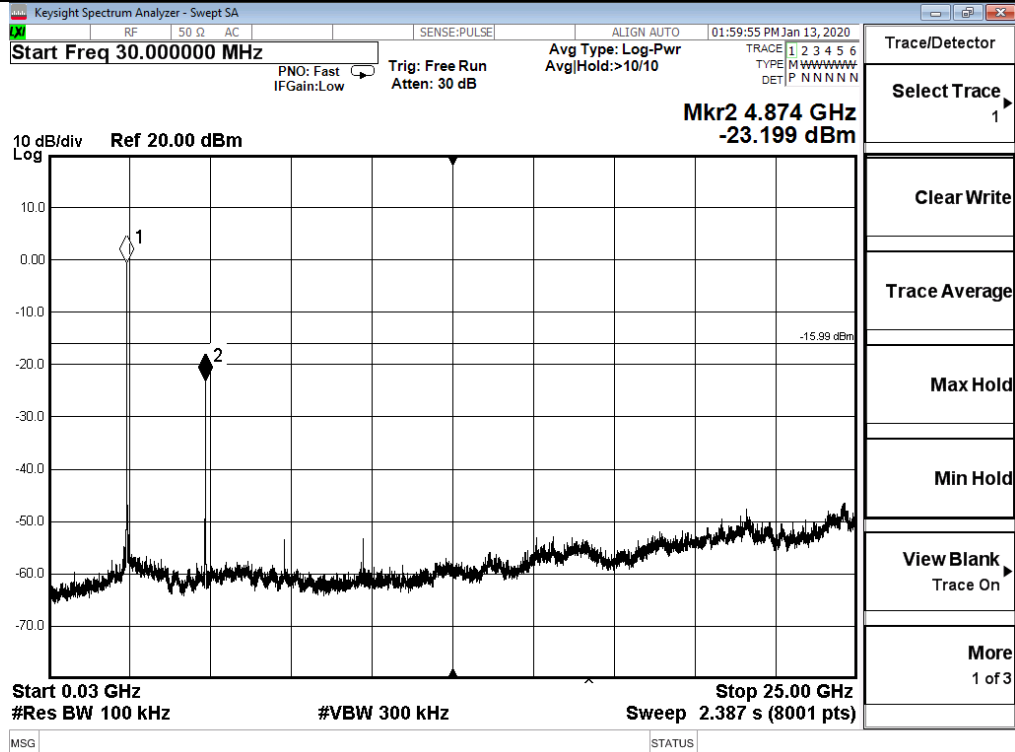


11B_MCH_Test Graphs_Ant2

Pref/11B/MCH

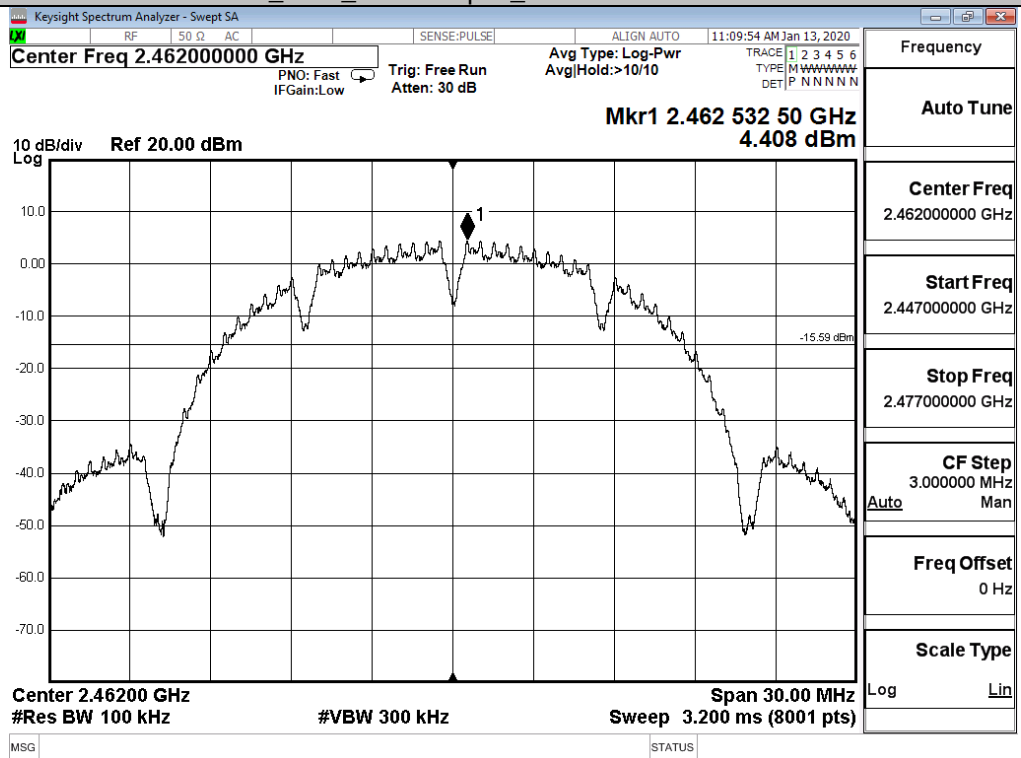


Puw/11B/MCH

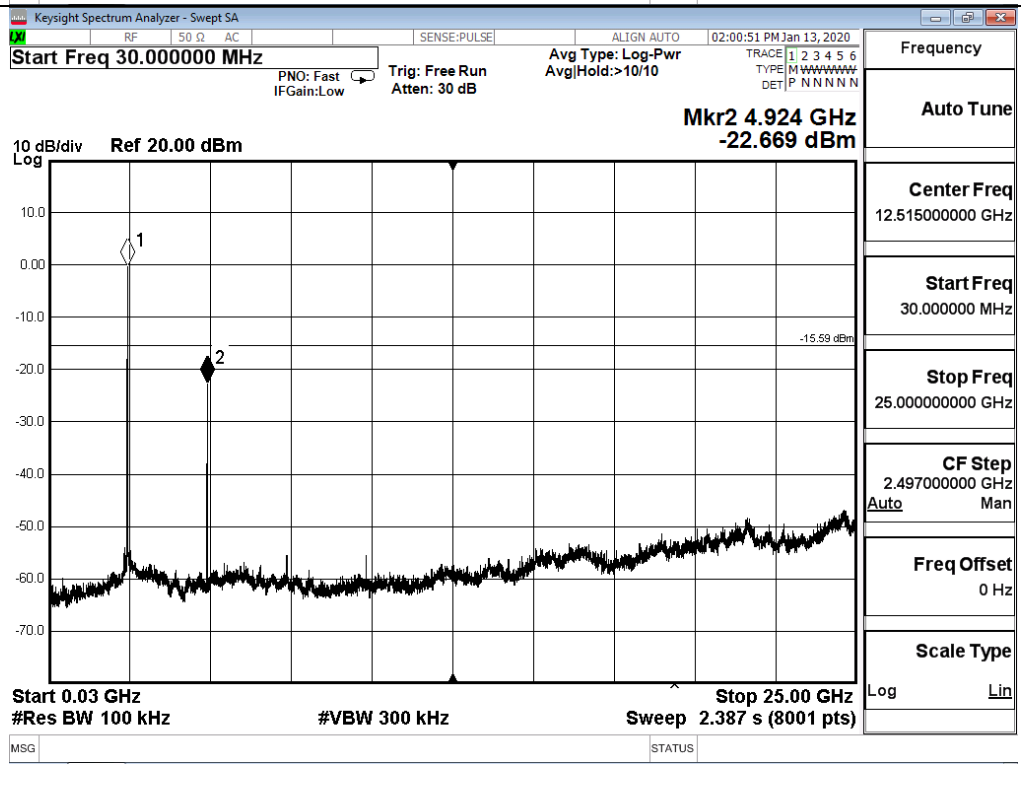


11B_HCH_Test Graphs_Ant2

Pref/11B/HCH

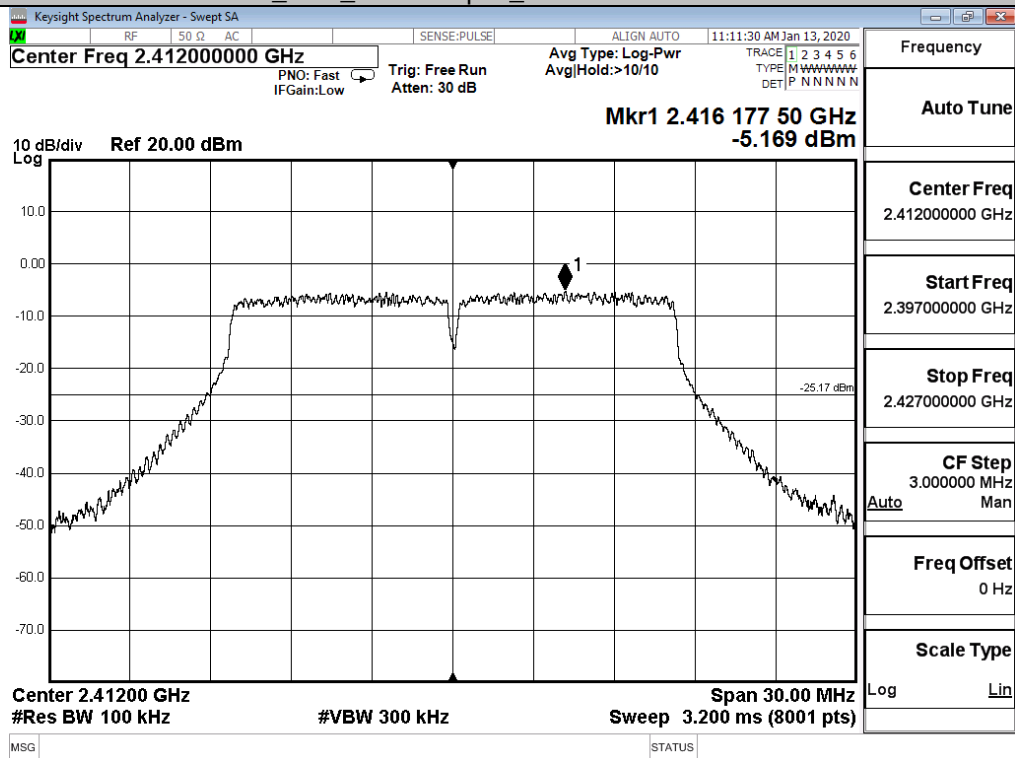


Puw/11B/HCH

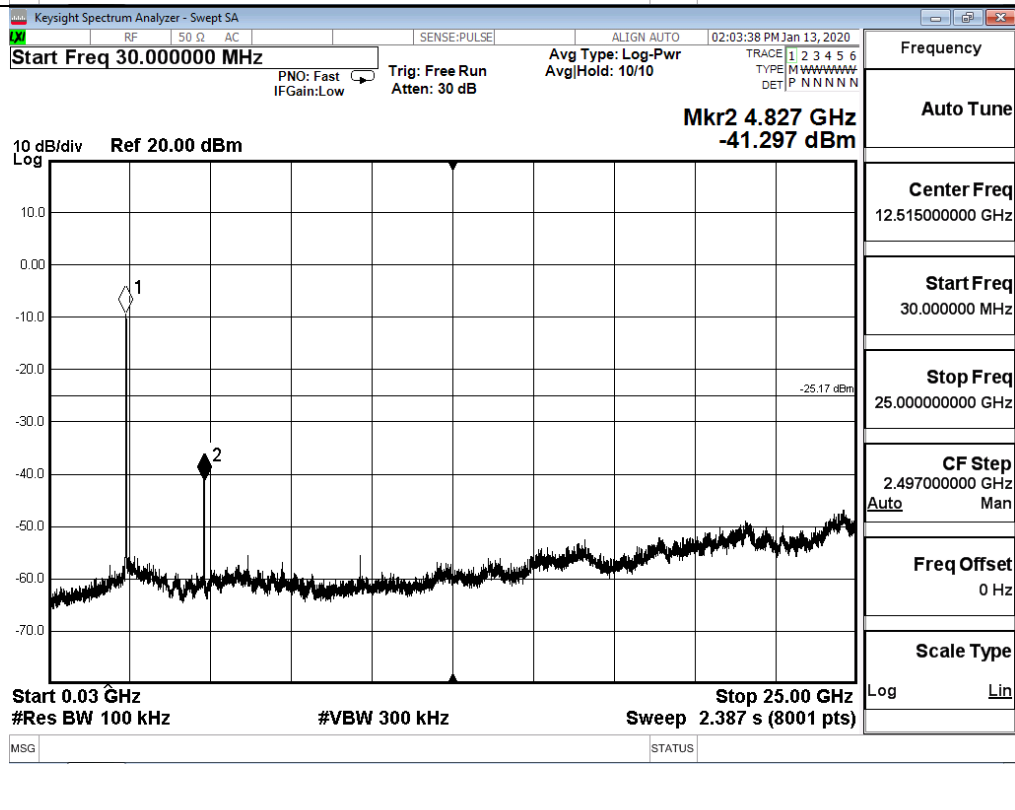


11G_LCH_Test Graphs_Ant2

Pref/11G/LCH

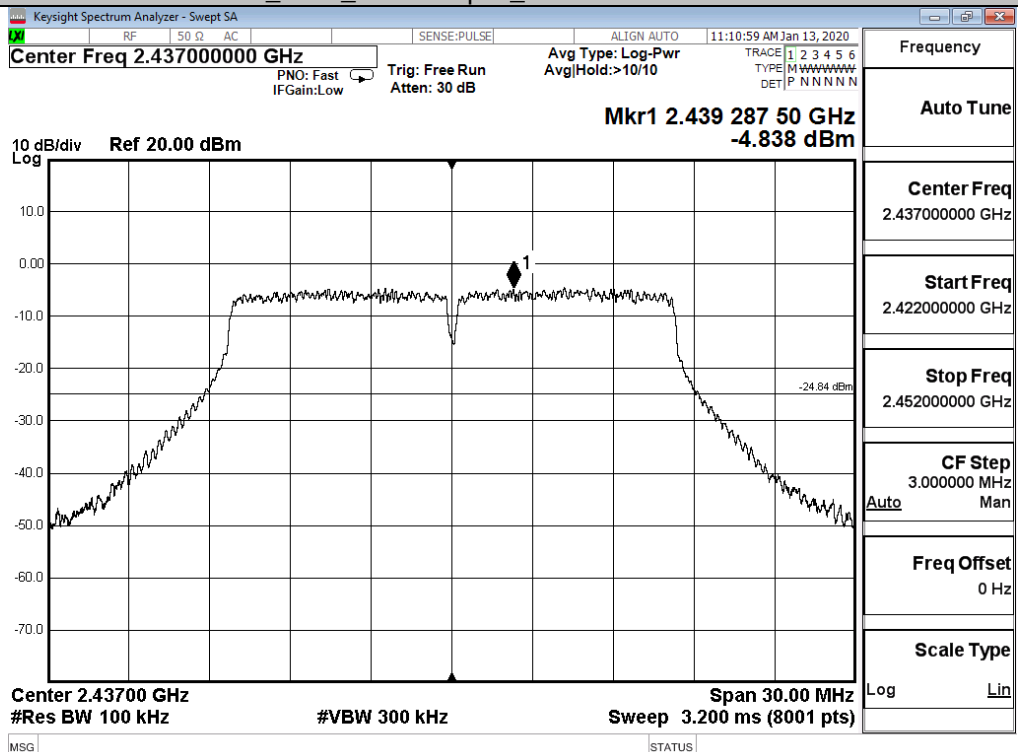


Puw/11G/LCH

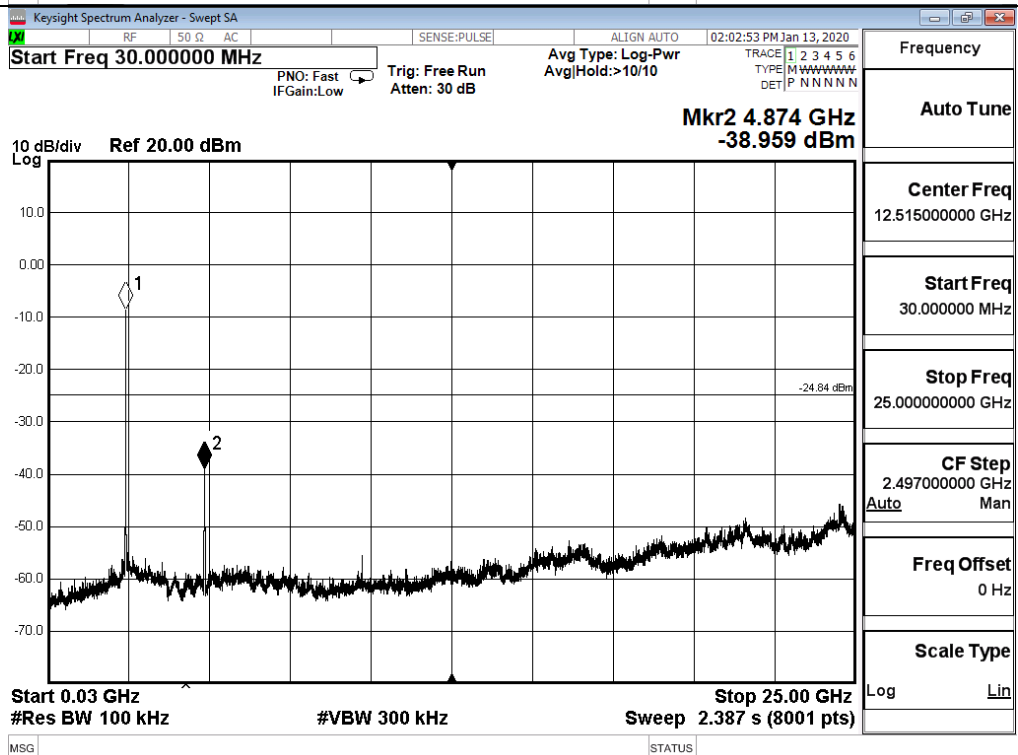


11G_MCH_Test Graphs_Ant2

Pref/11G/MCH

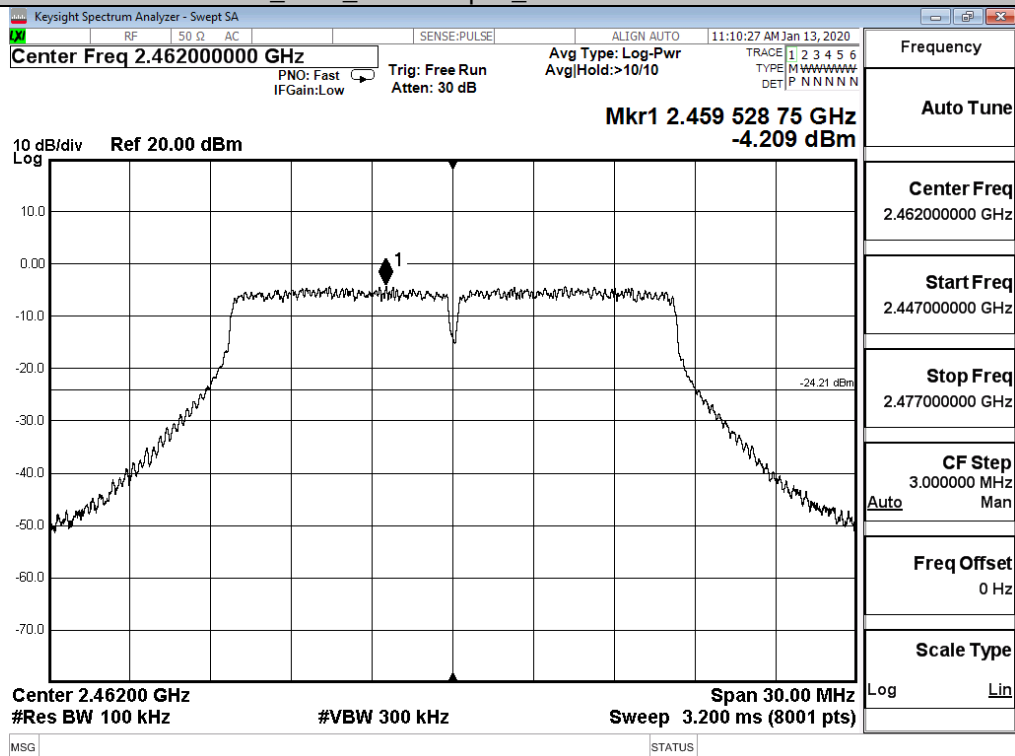


Puw/11G/MCH

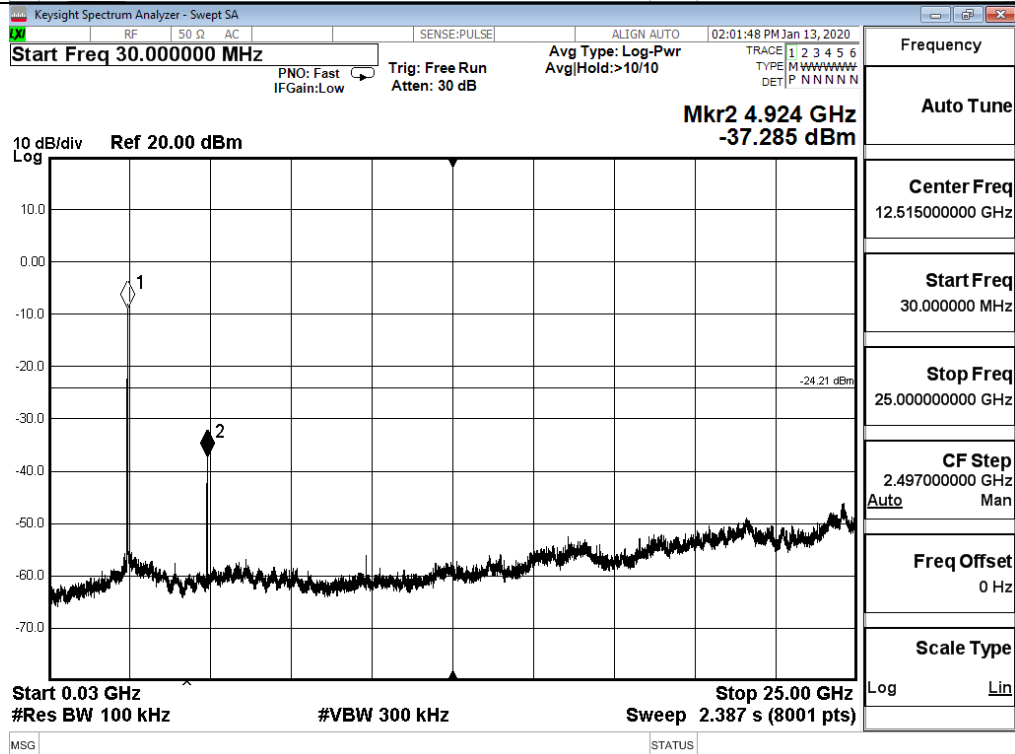


11G_HCH_Test Graphs_Ant2

Pref/11G/HCH

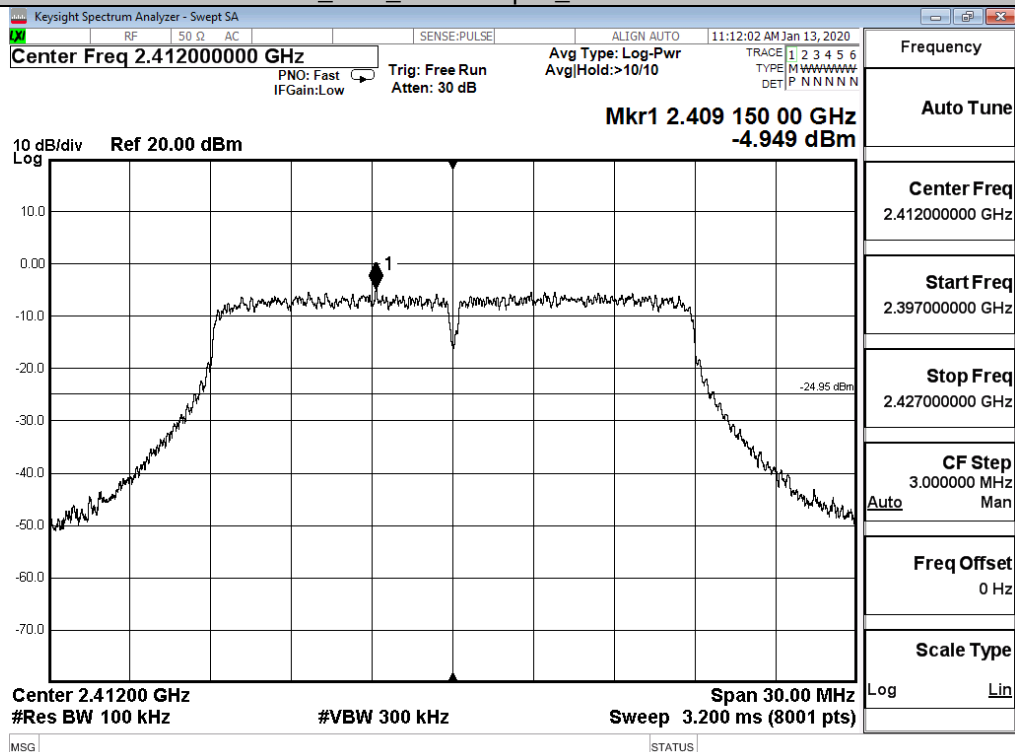


Puw/11G/HCH

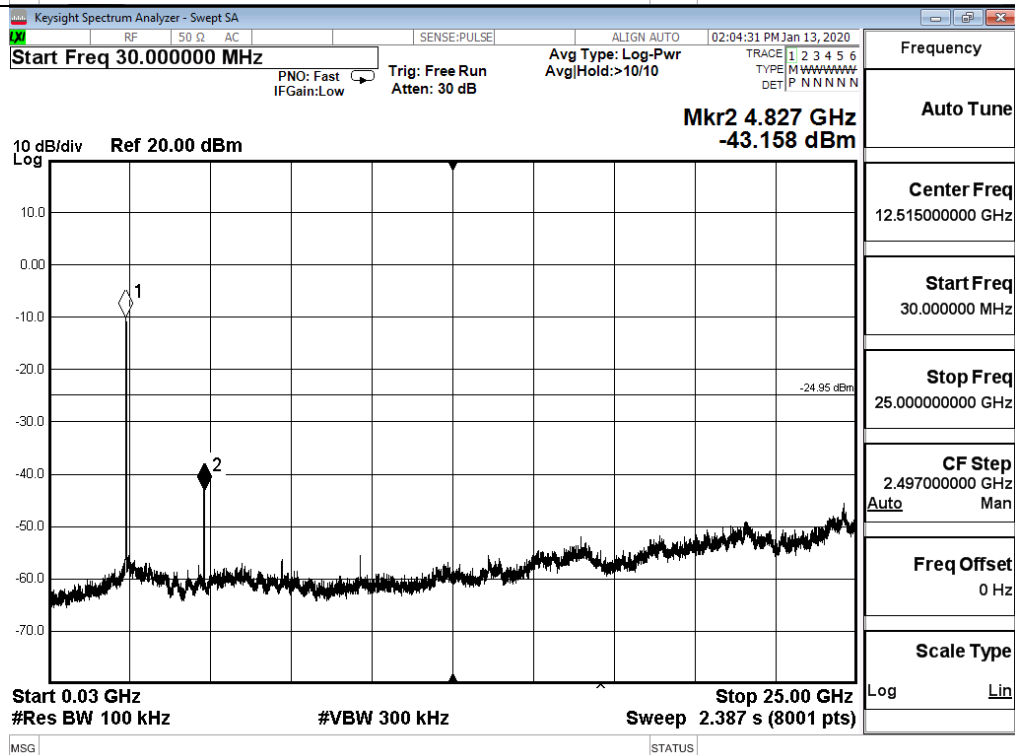


11N20SISO_LCH_Test Graphs_Ant2

Pref/11N20SIS
O/LCH

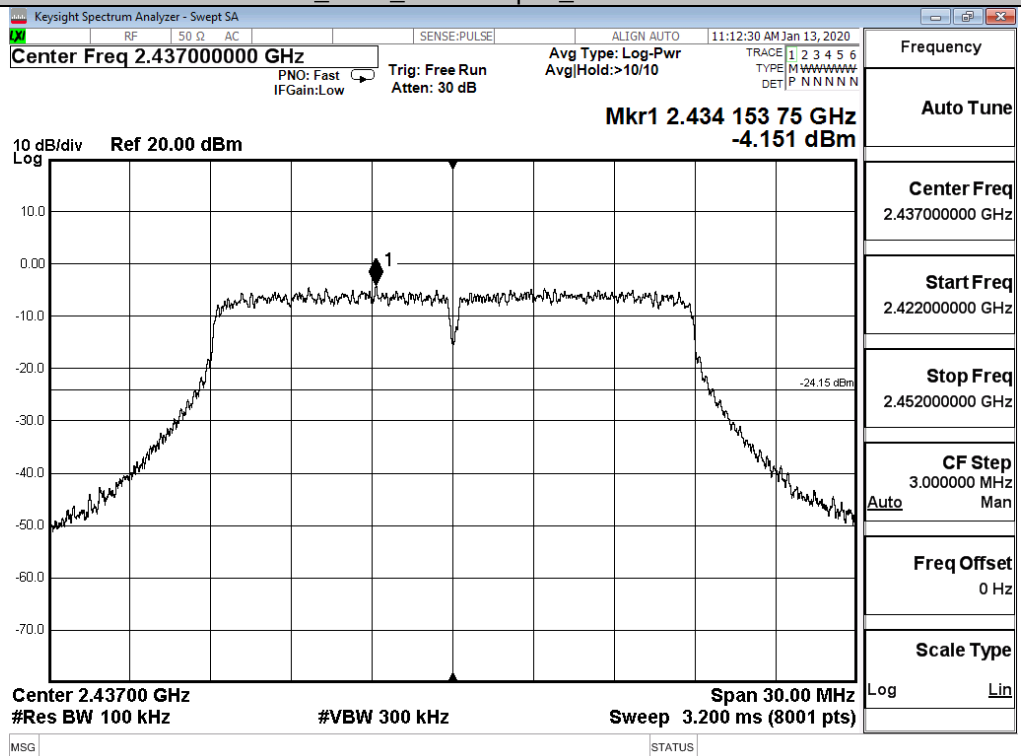


Puw/11N20
SISO/LCH



11N20SISO_MCH_Test Graphs_Ant2

Pref/11N20
SISO/MCH



Puw/11N20
SISO/MCH

