

Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Fiber Router



Trade Mark: V-SOL

Test Model: V2802GWT

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

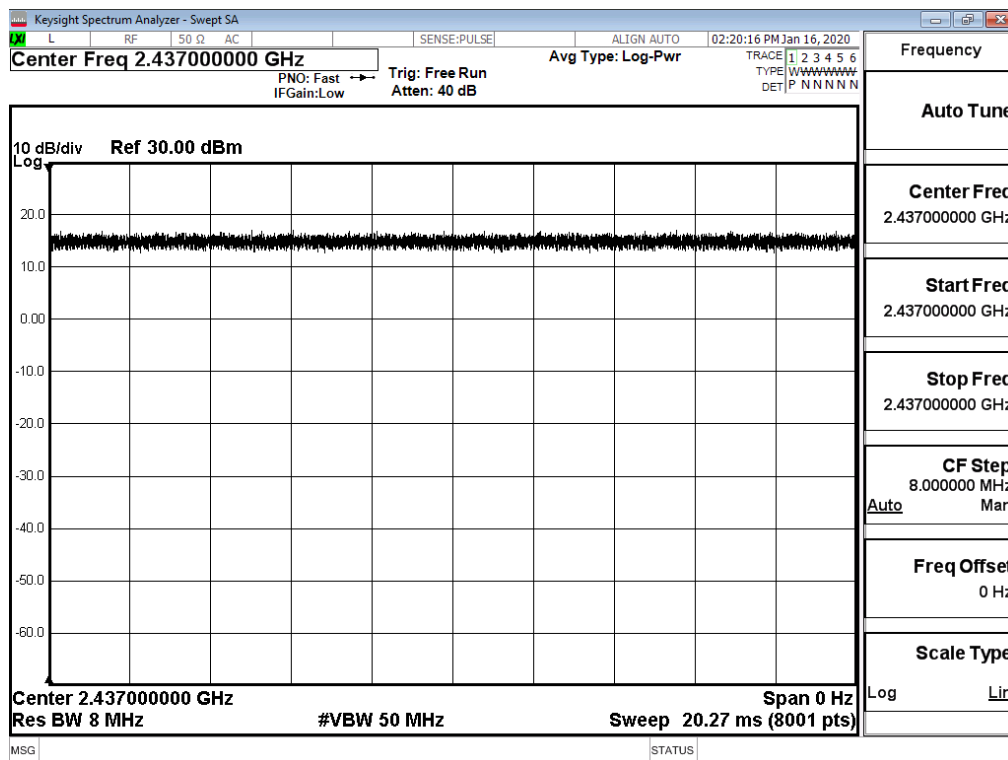
ANT1

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

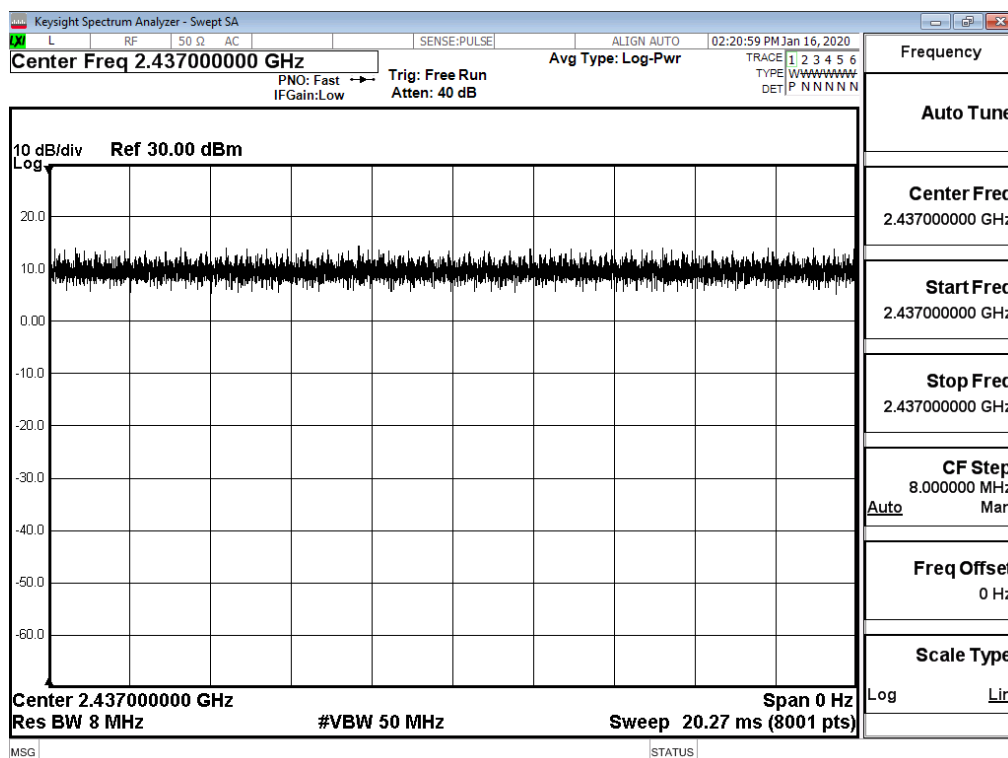
ANT2

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

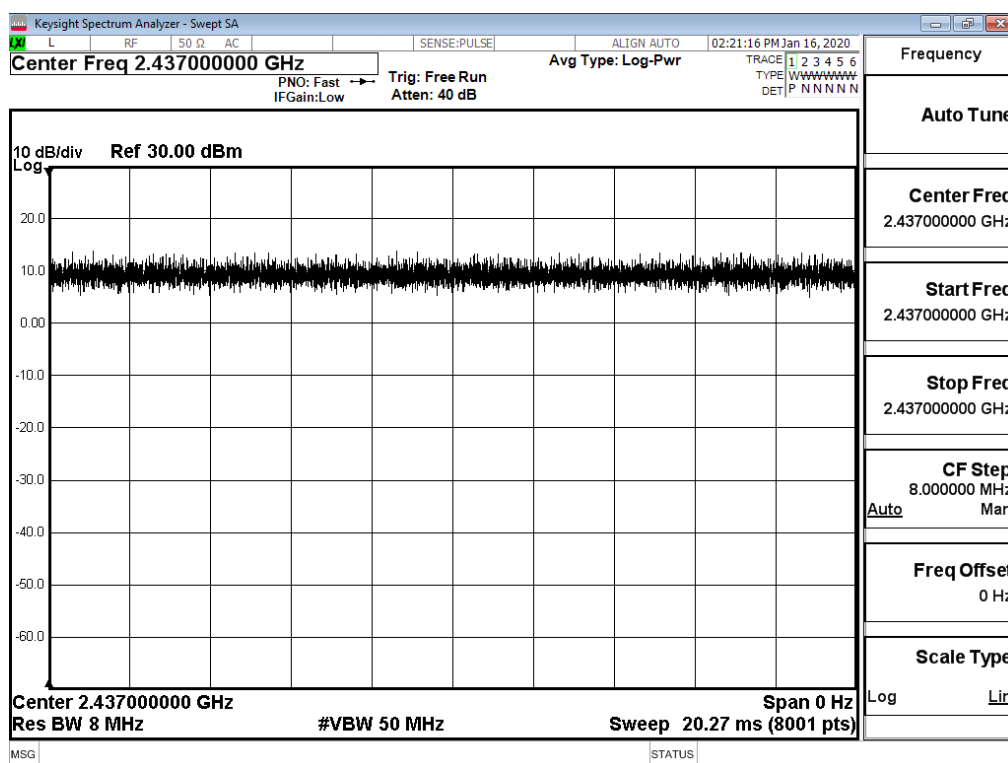
Duty Cycle_11B_2437_Ant1



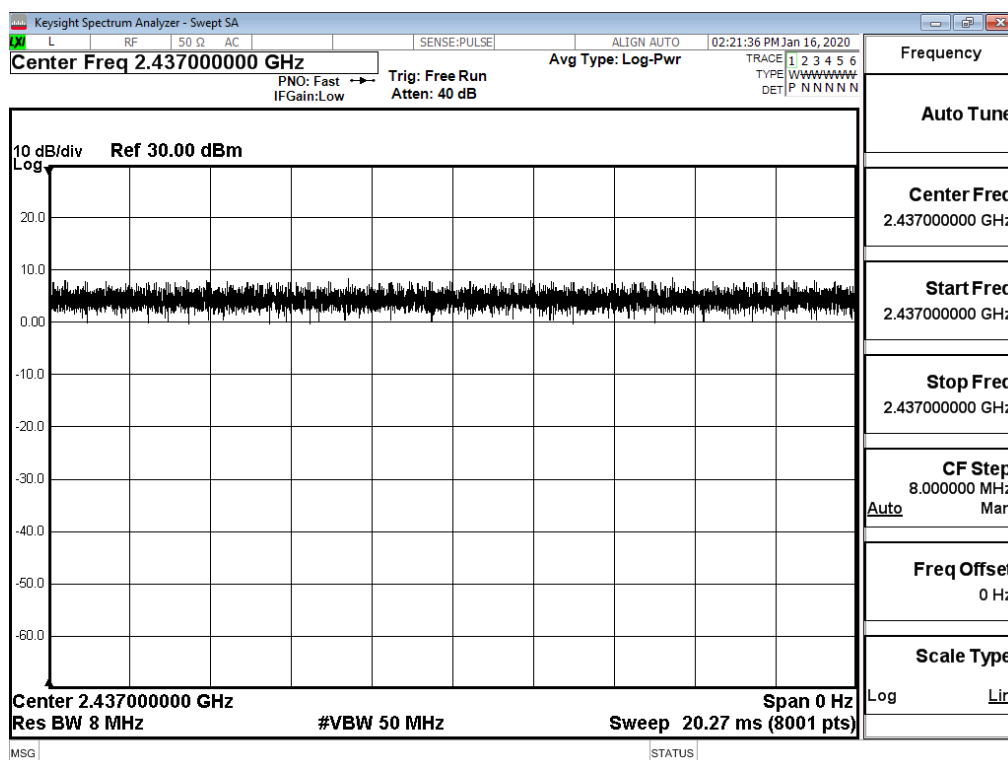
Duty Cycle_11G_2437_Ant1



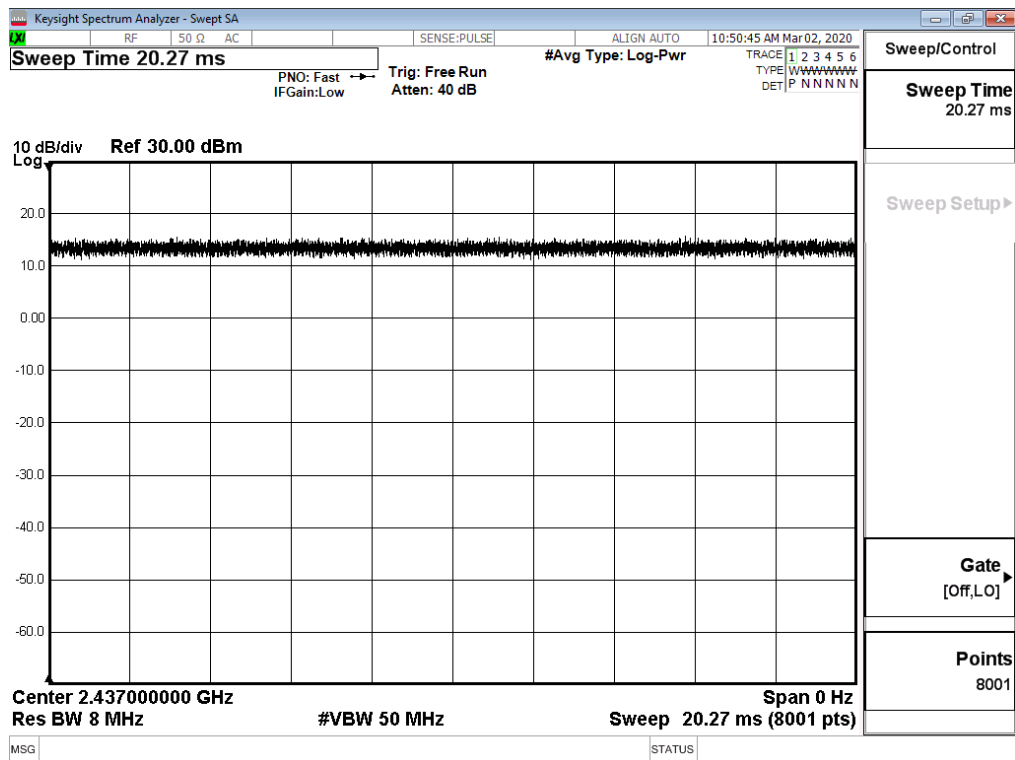
Duty Cycle_11N20SISO_2437_Ant1



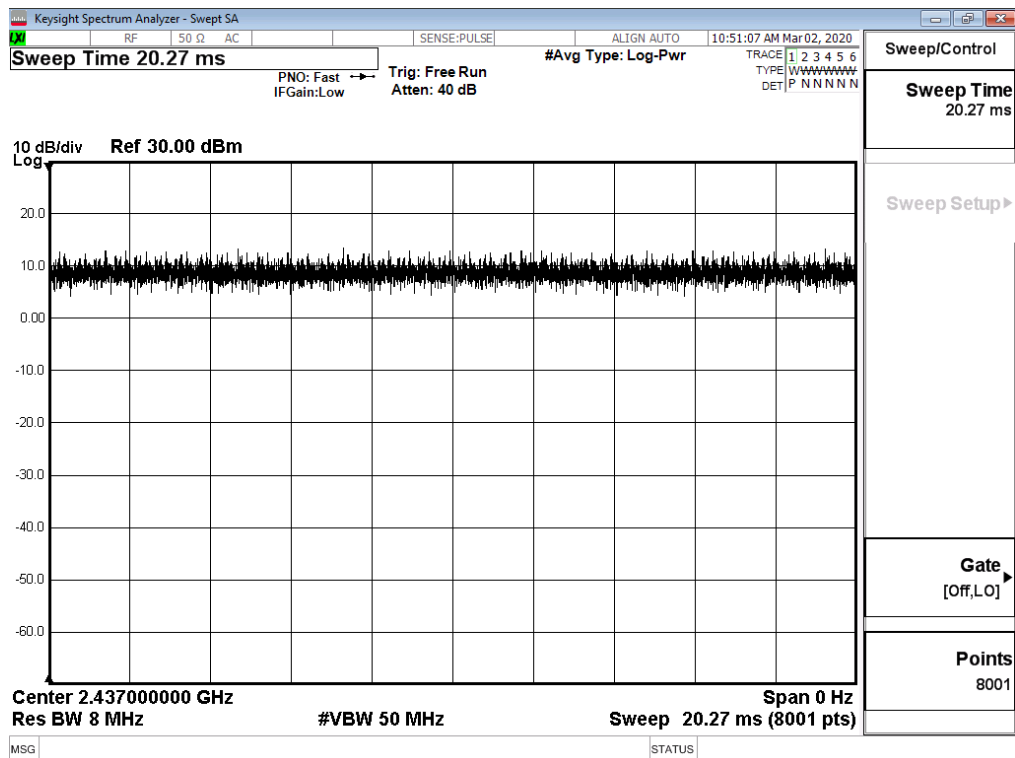
Duty Cycle_11N40SISO_2437_Ant1



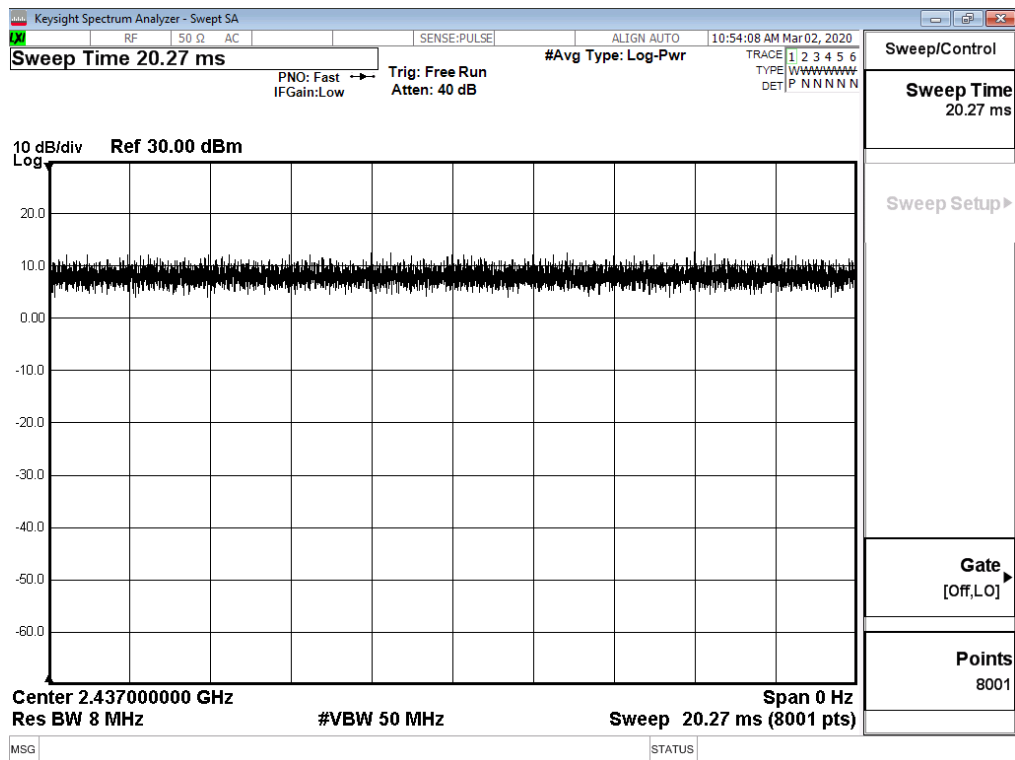
Duty Cycle_11B_2437_Ant2



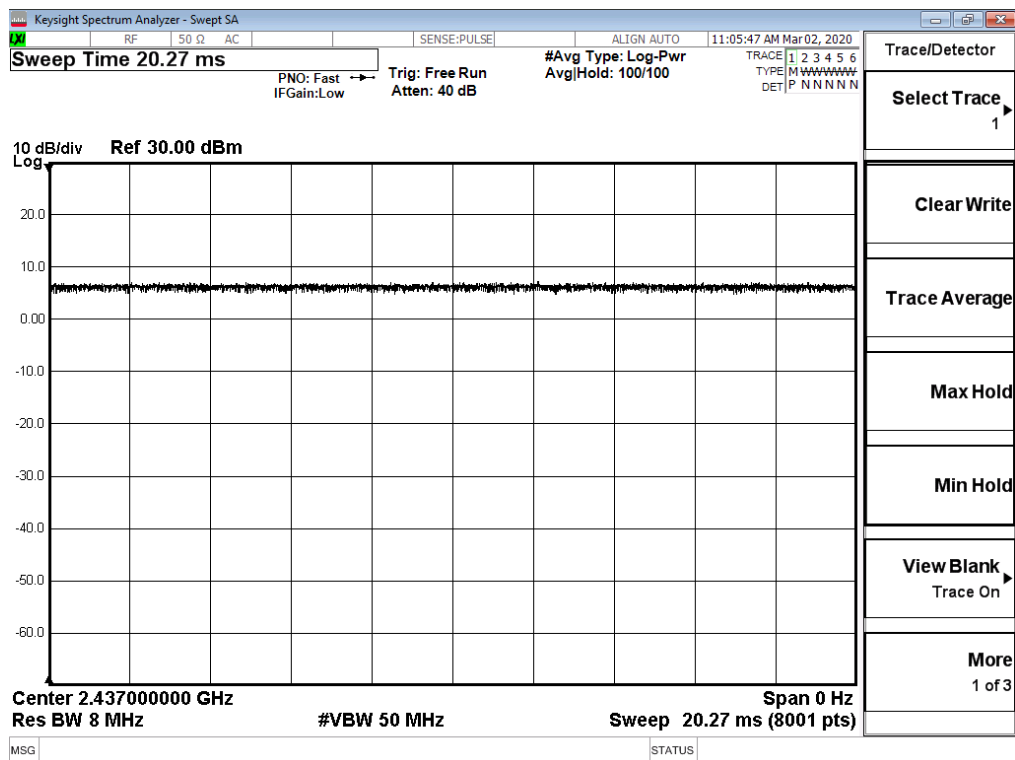
Duty Cycle_11G_2437_Ant2



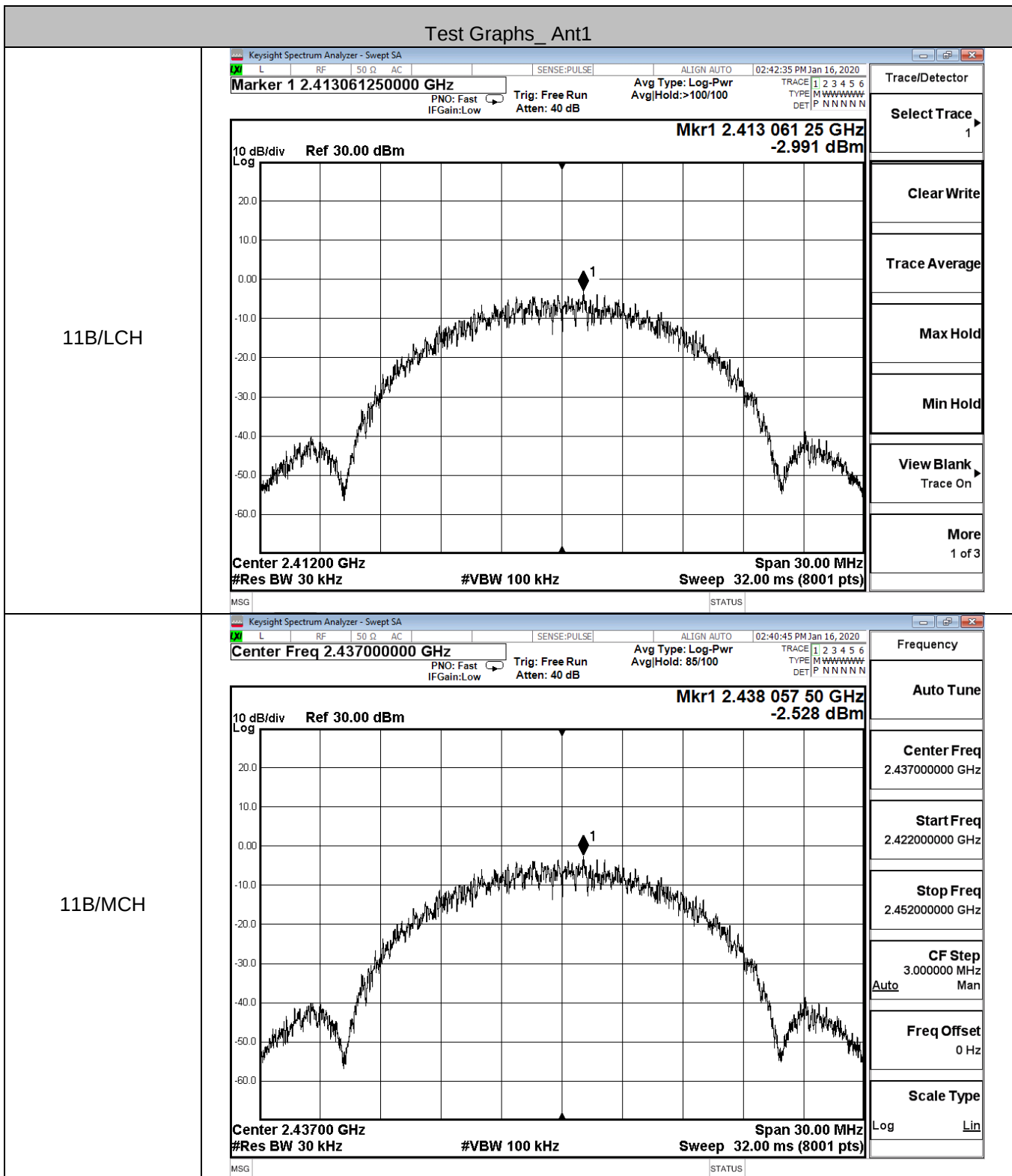
Duty Cycle_11N20SISO_2437_Ant2



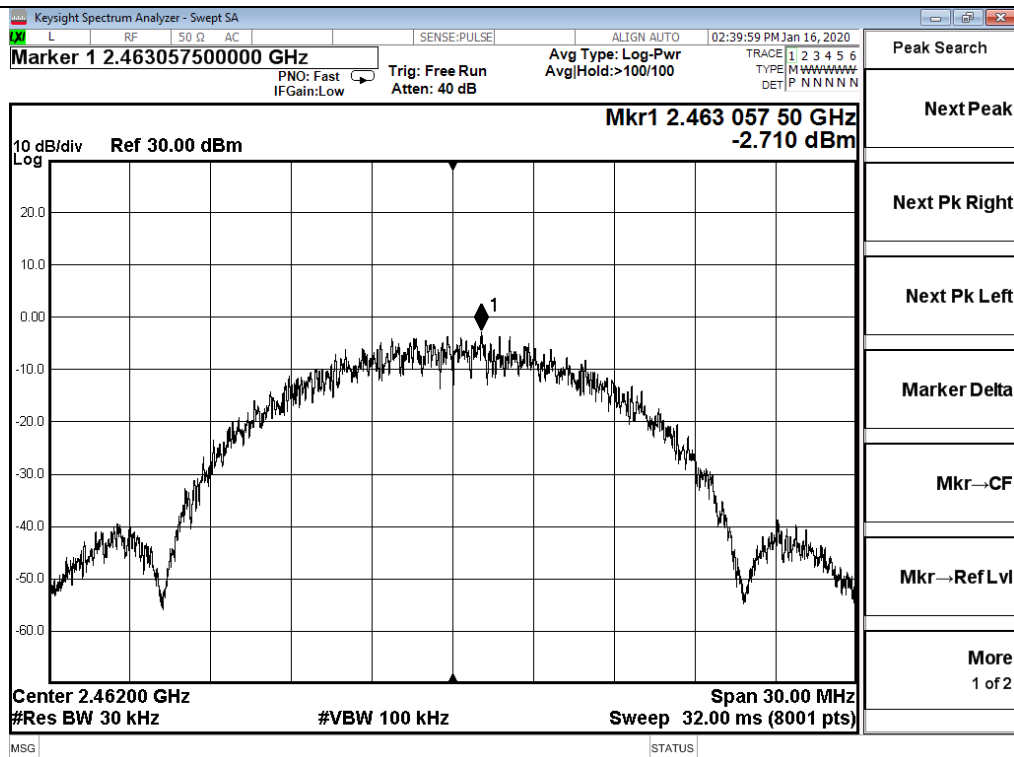
Duty Cycle_11N40SISO_2437_Ant2



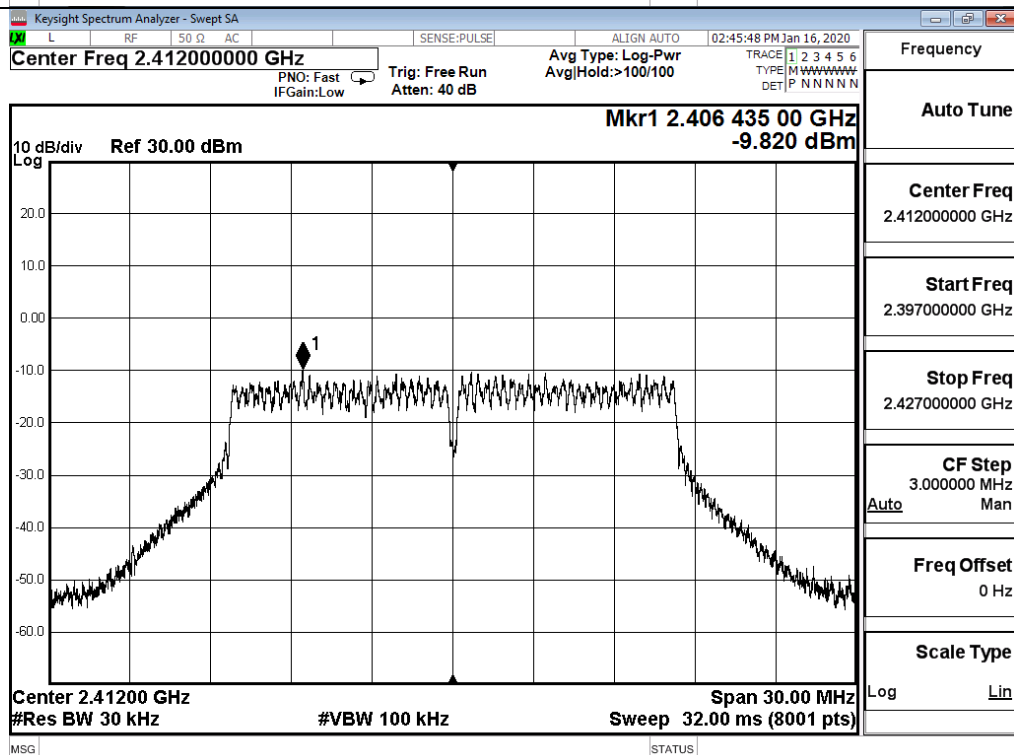
A.2 Maximum Power Spectral Density



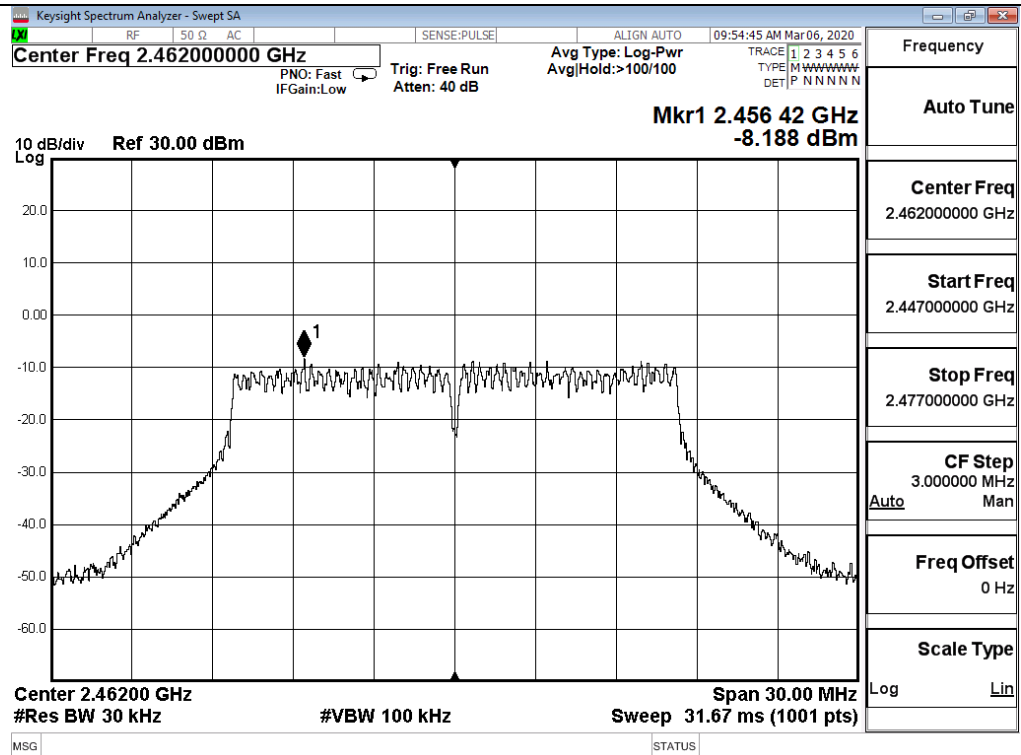
11B/HCH



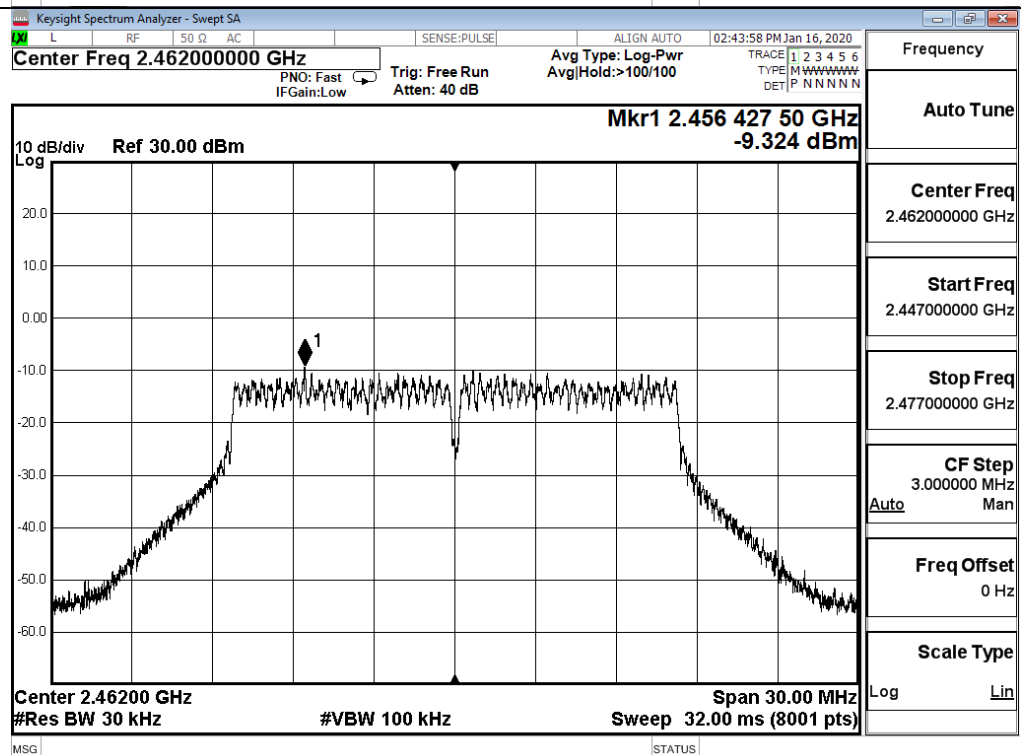
11G/LCH



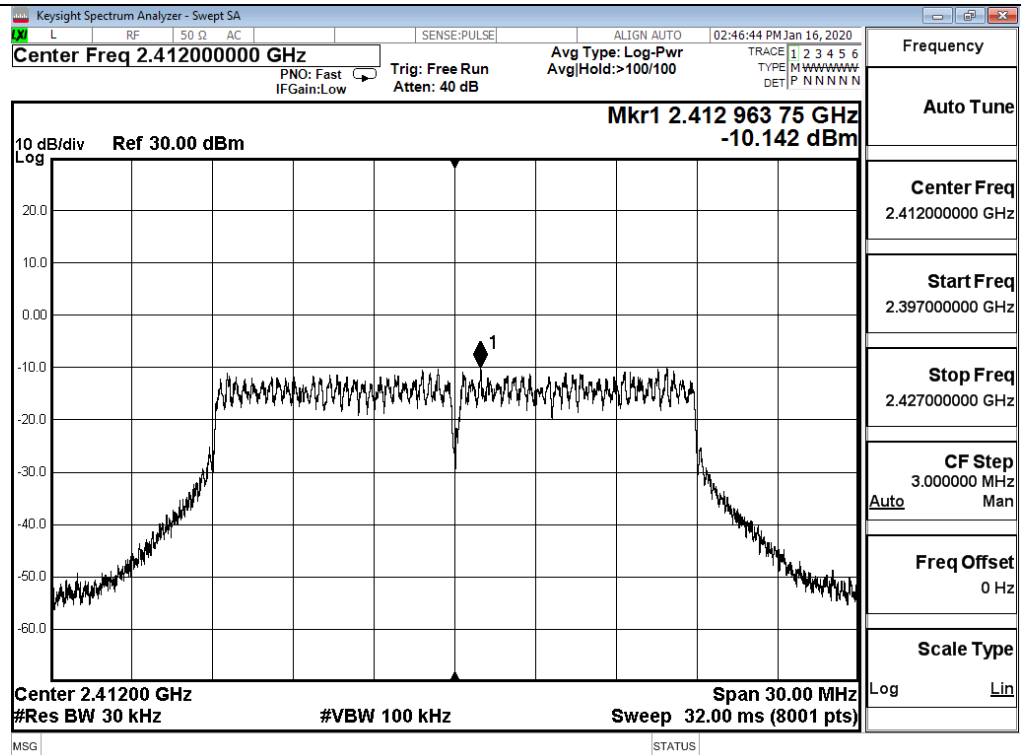
11G/MCH



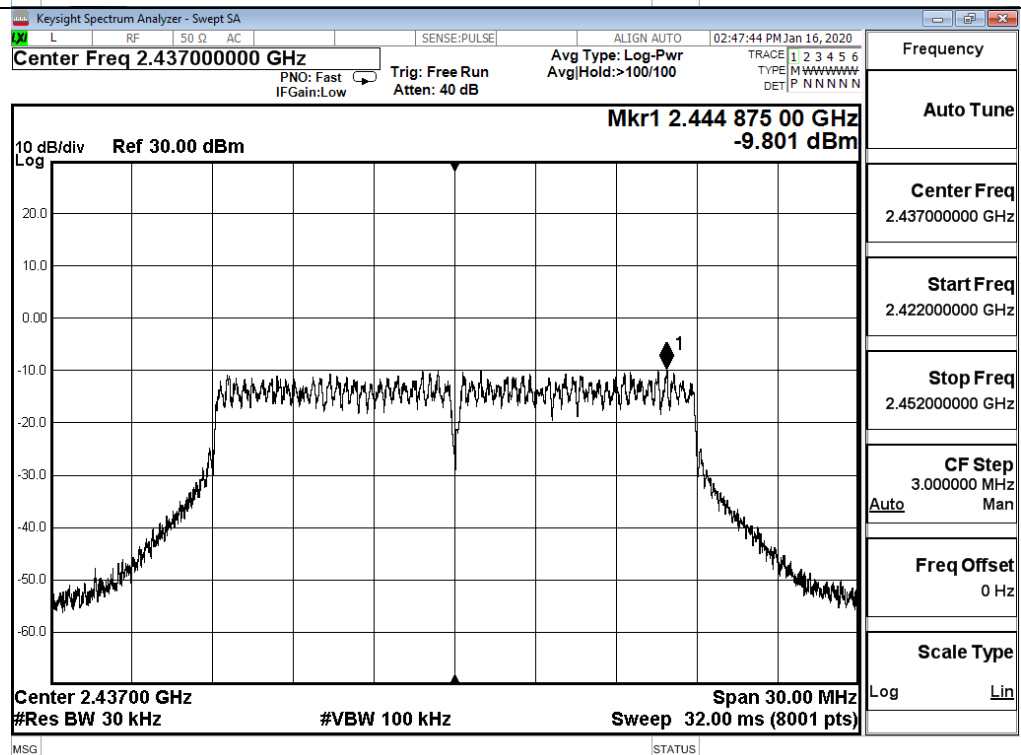
11G/HCH



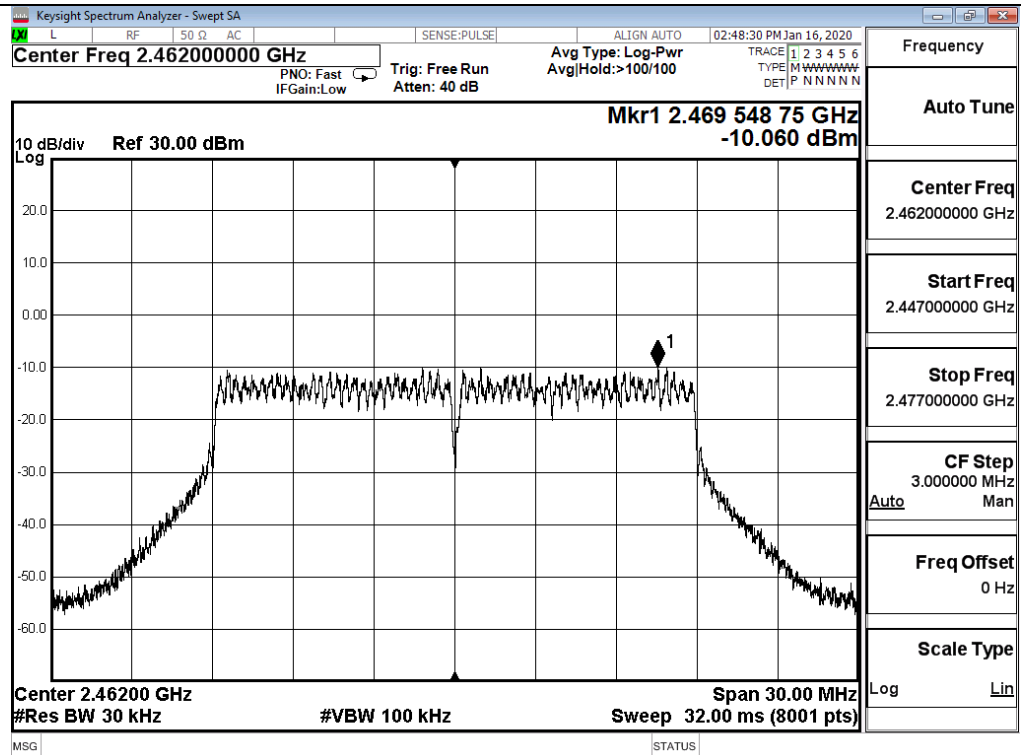
11N20SISO/LCH



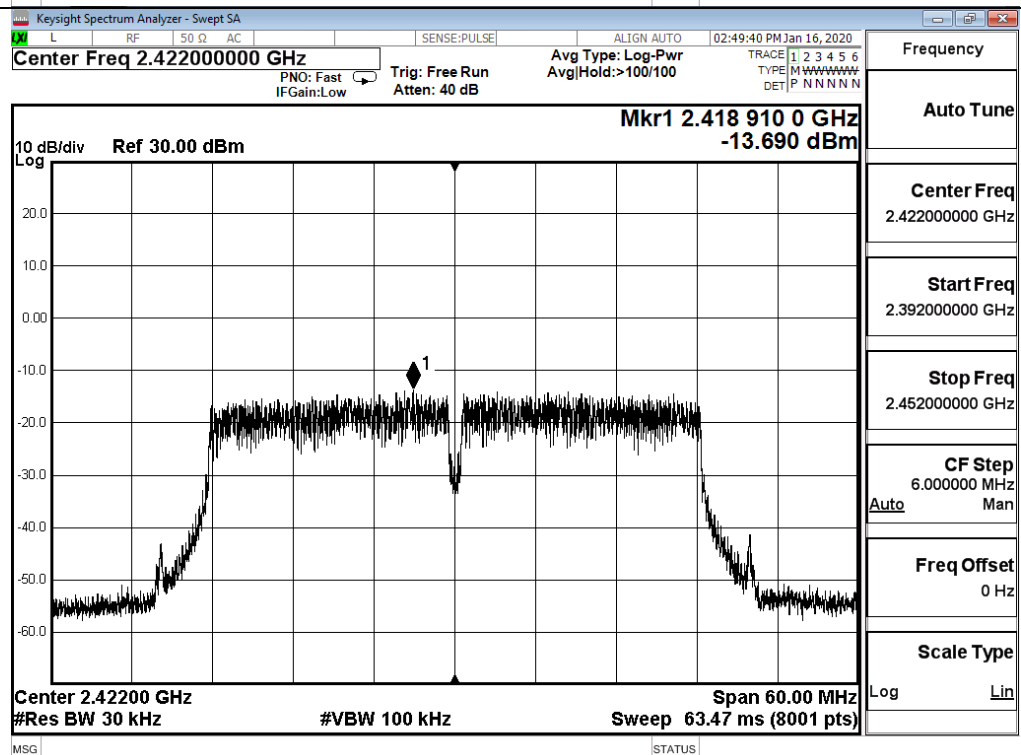
11N20SISO/MCH



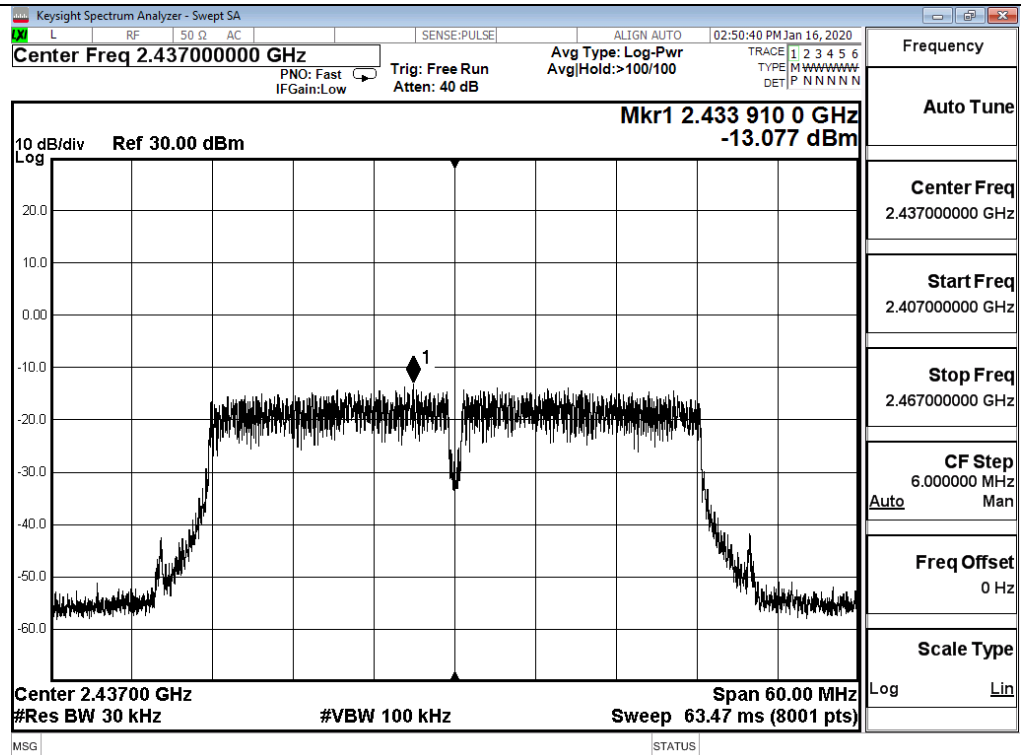
11N20SISO/HCH



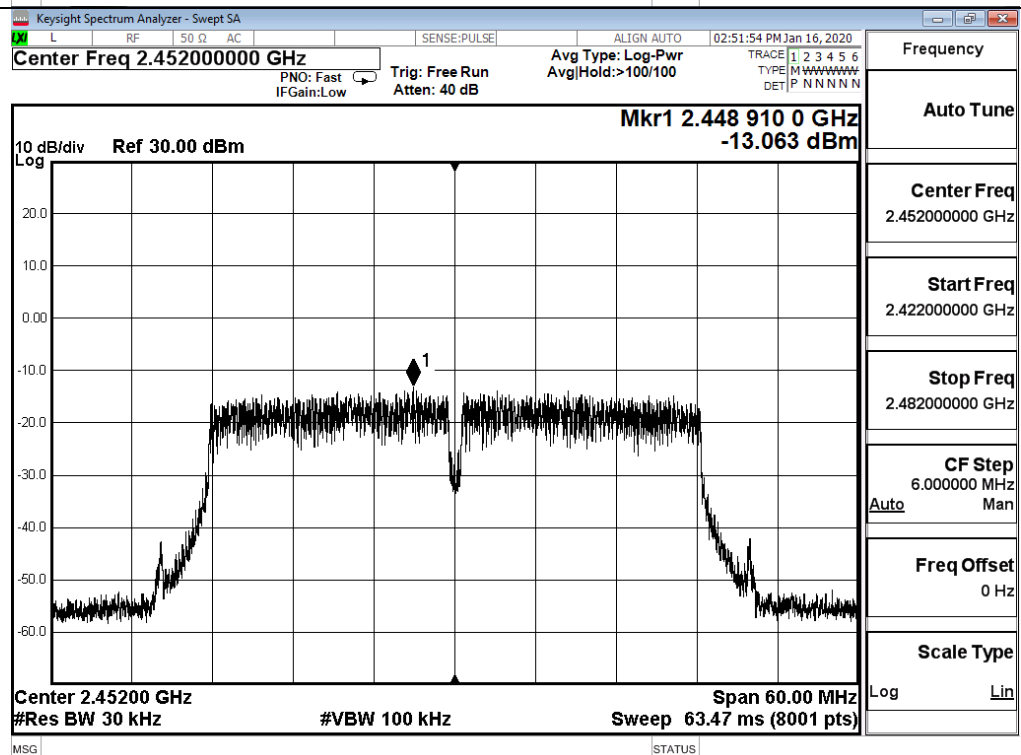
11N40SISO/LCH



11N40SISO/MCH

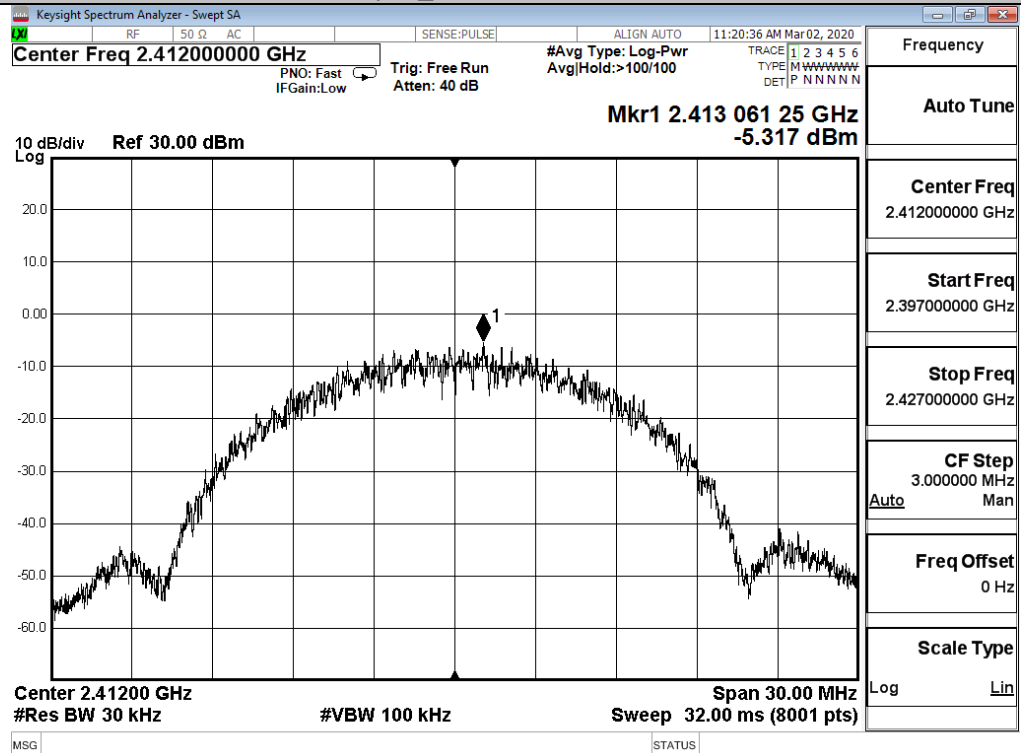


11N40SISO/HCH

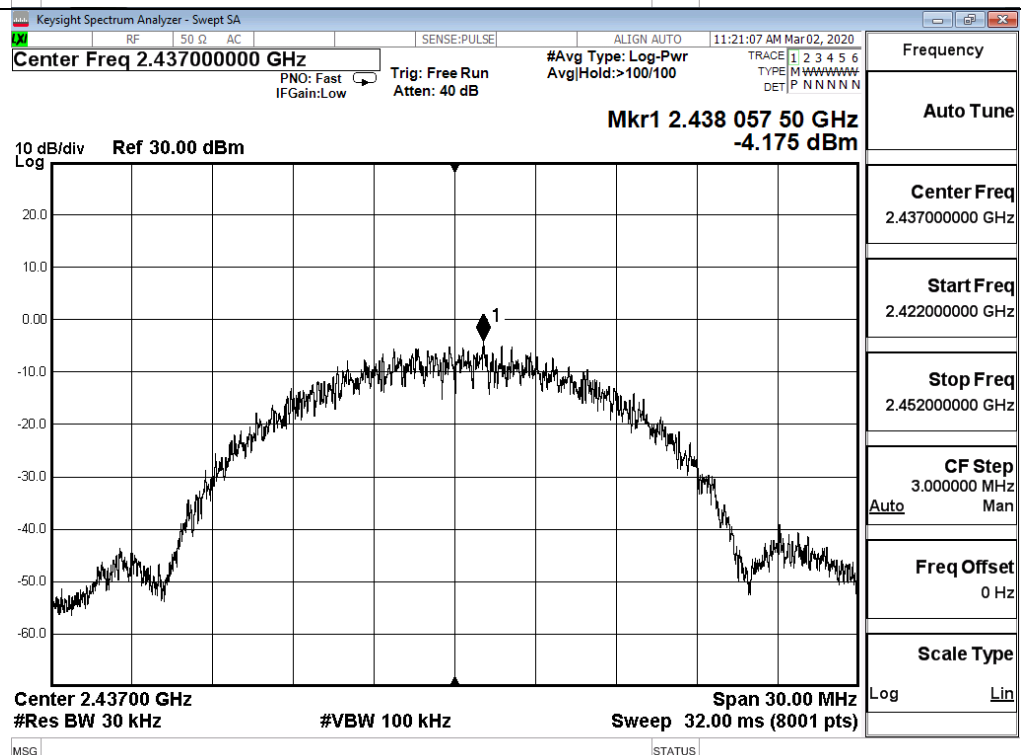


Test Graphs_Ant2

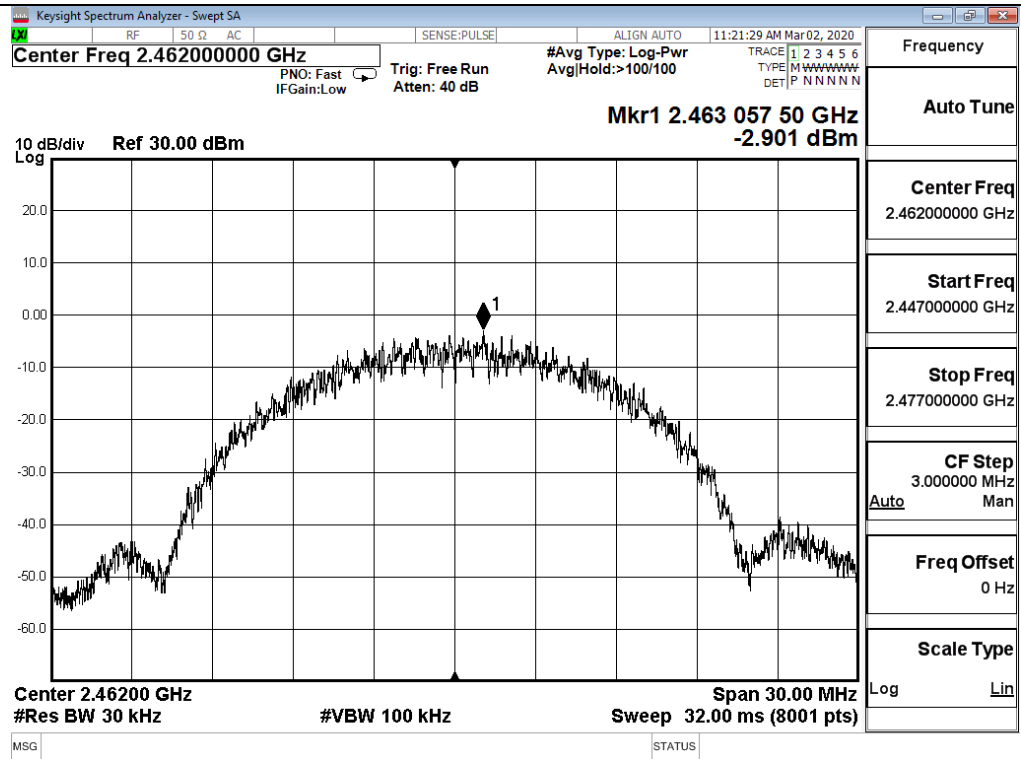
11B/LCH



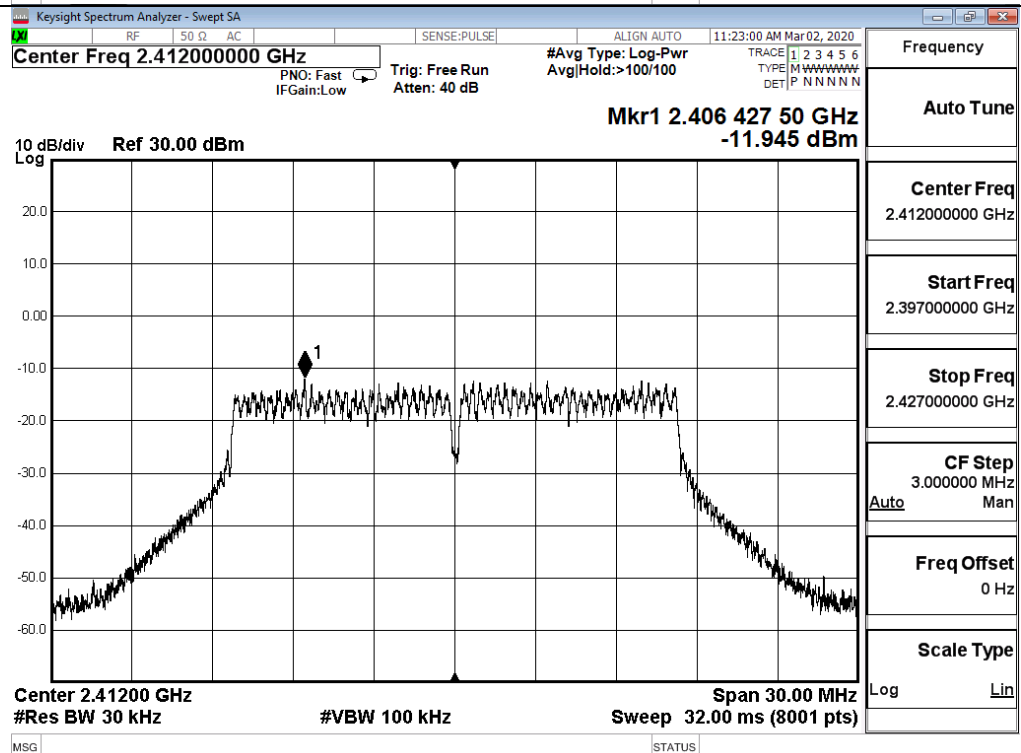
11B/MCH



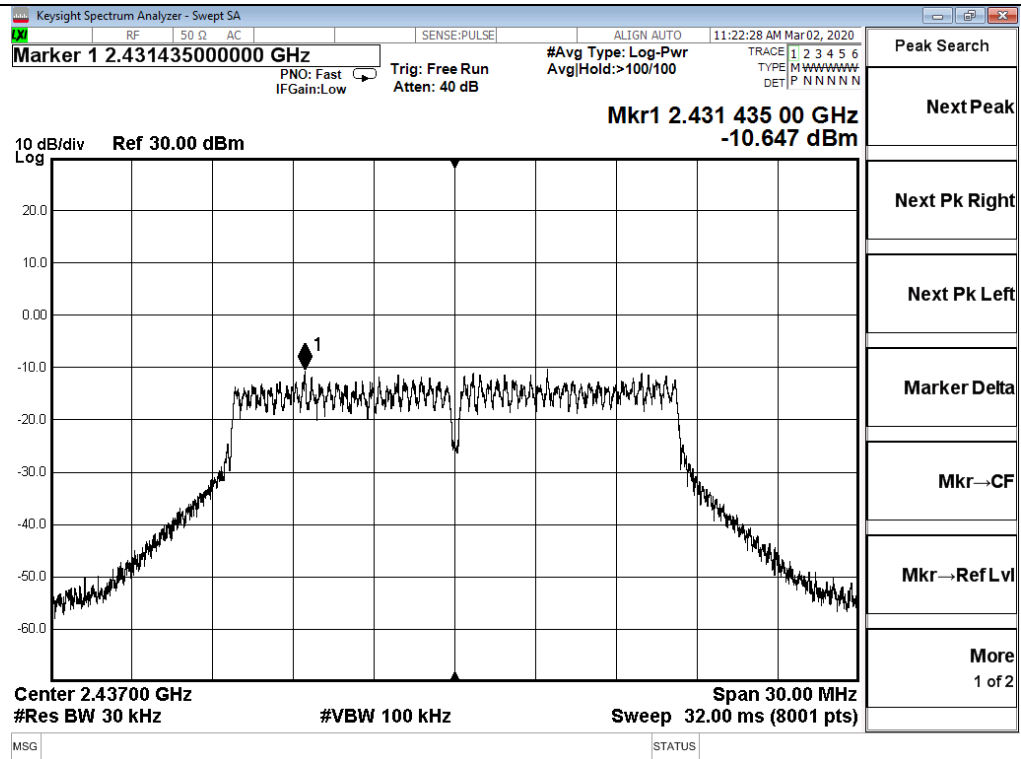
11B/HCH



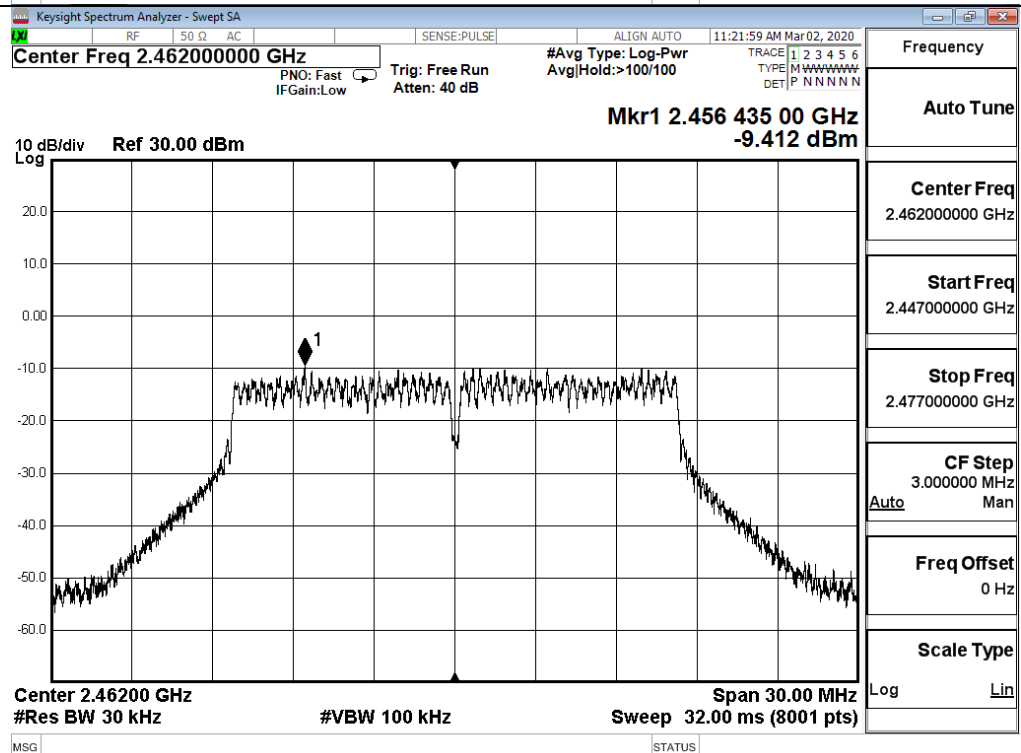
11G/LCH



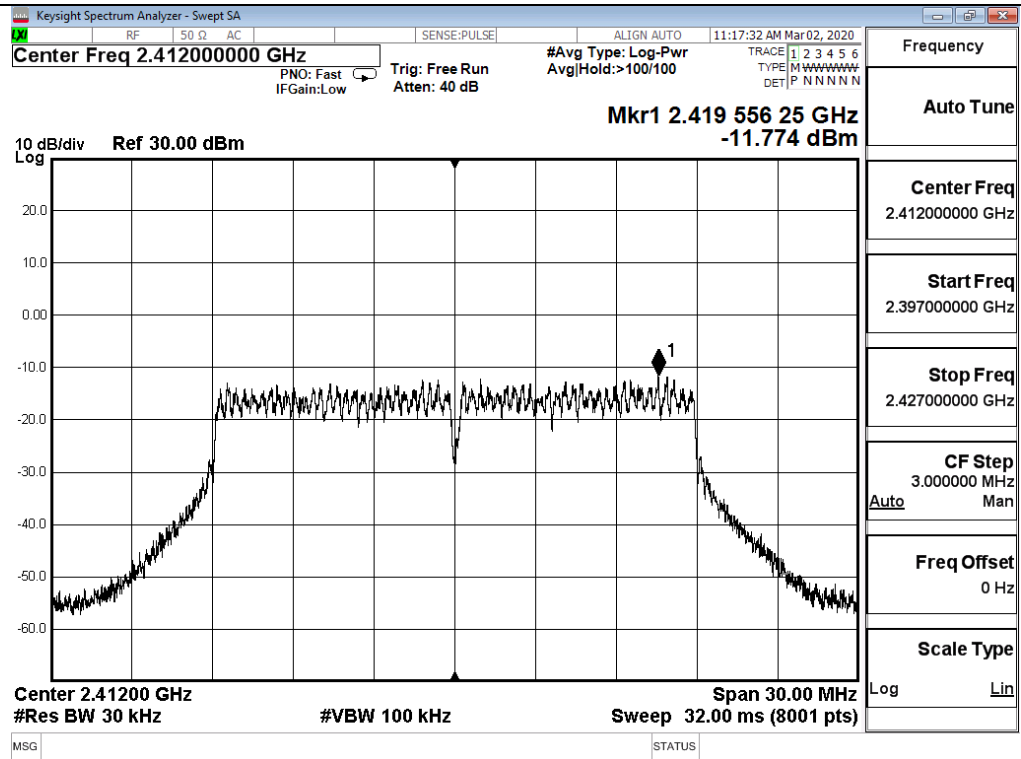
11G/MCH



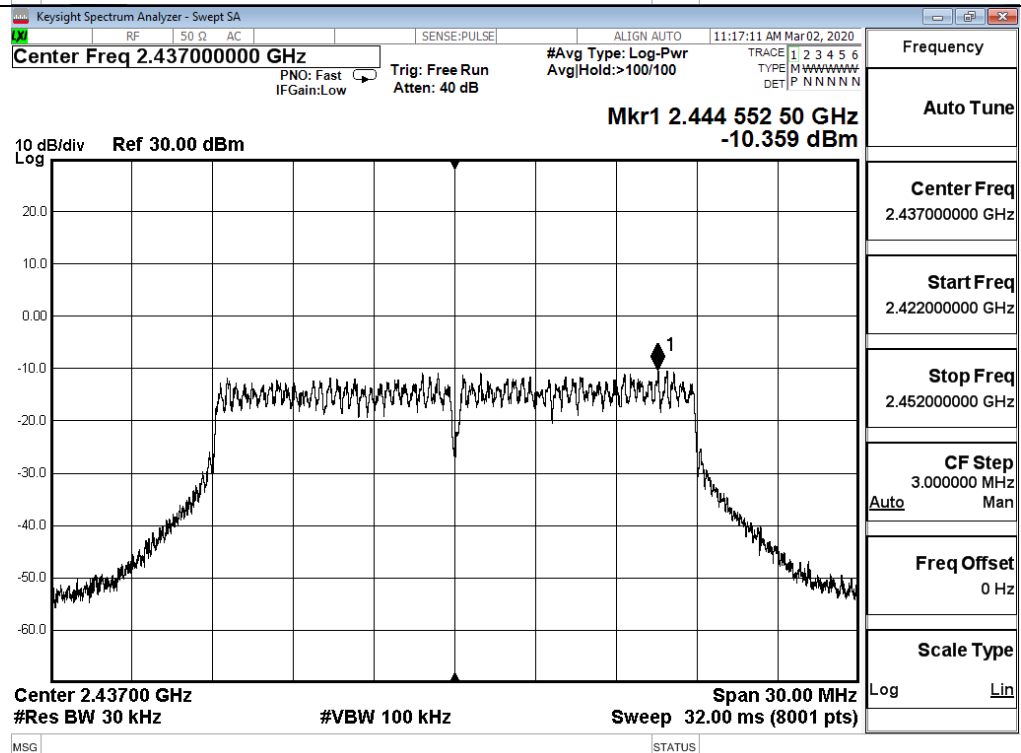
11G/HCH



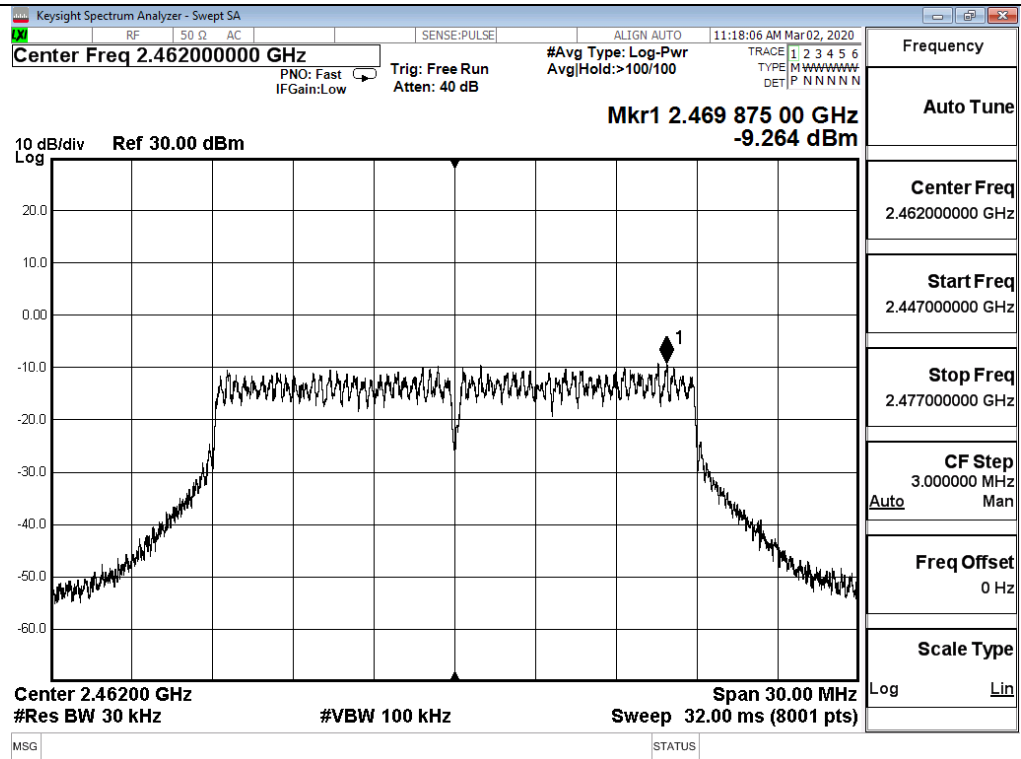
11N20SISO/LCH



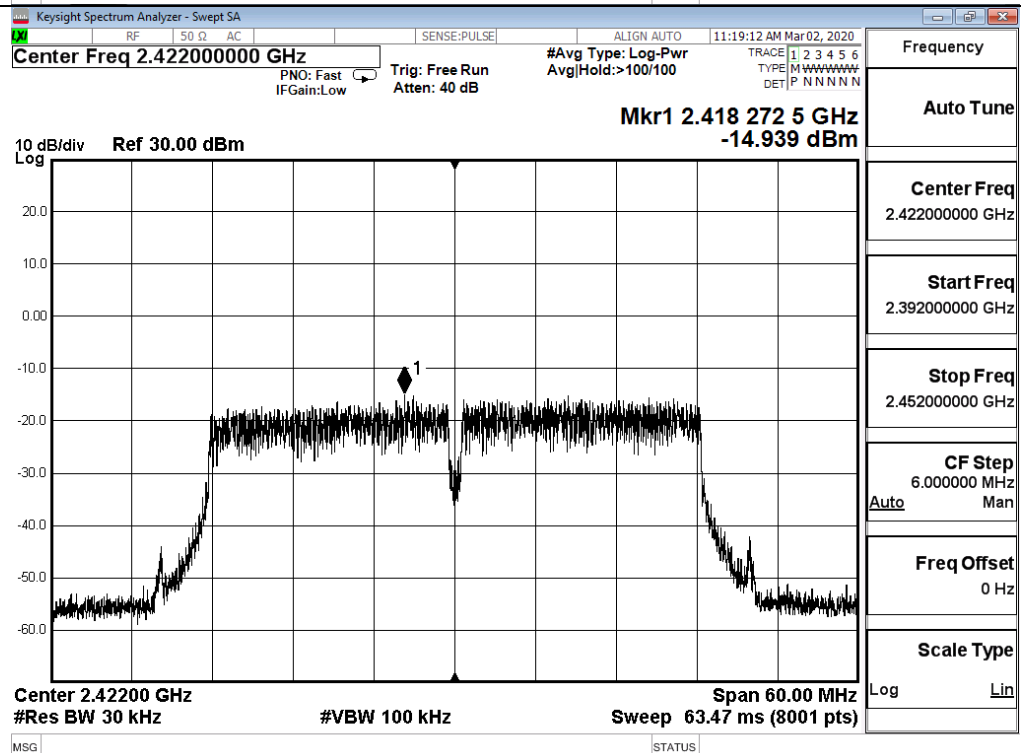
11N20SISO/MCH



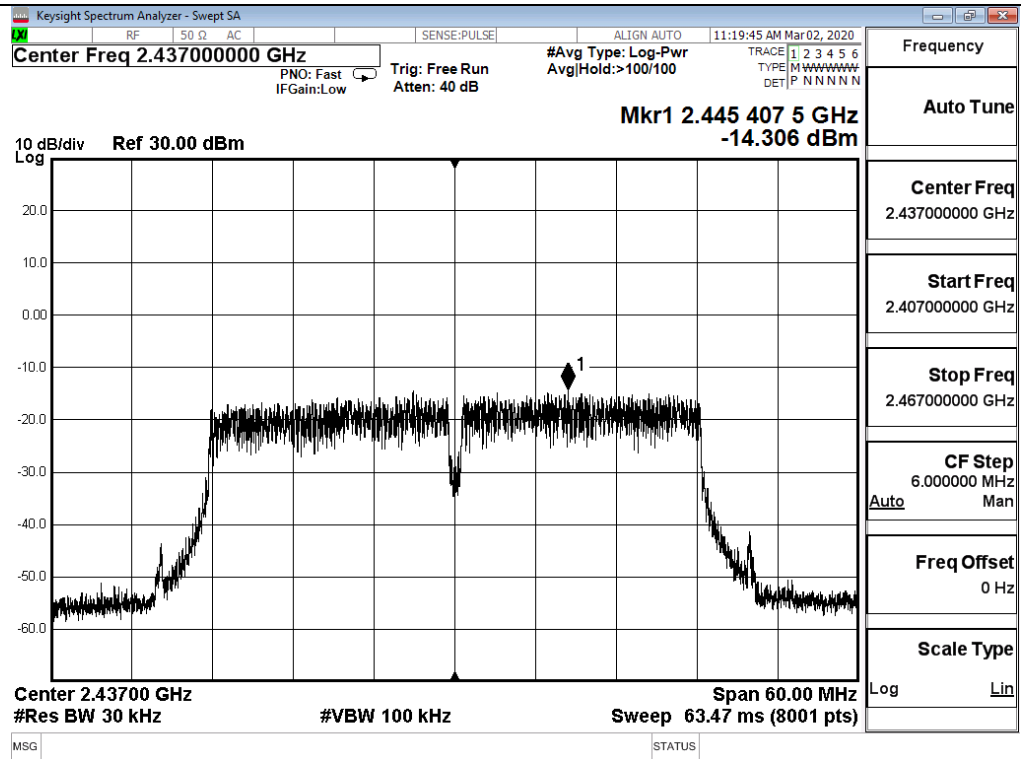
11N20SISO/HCH



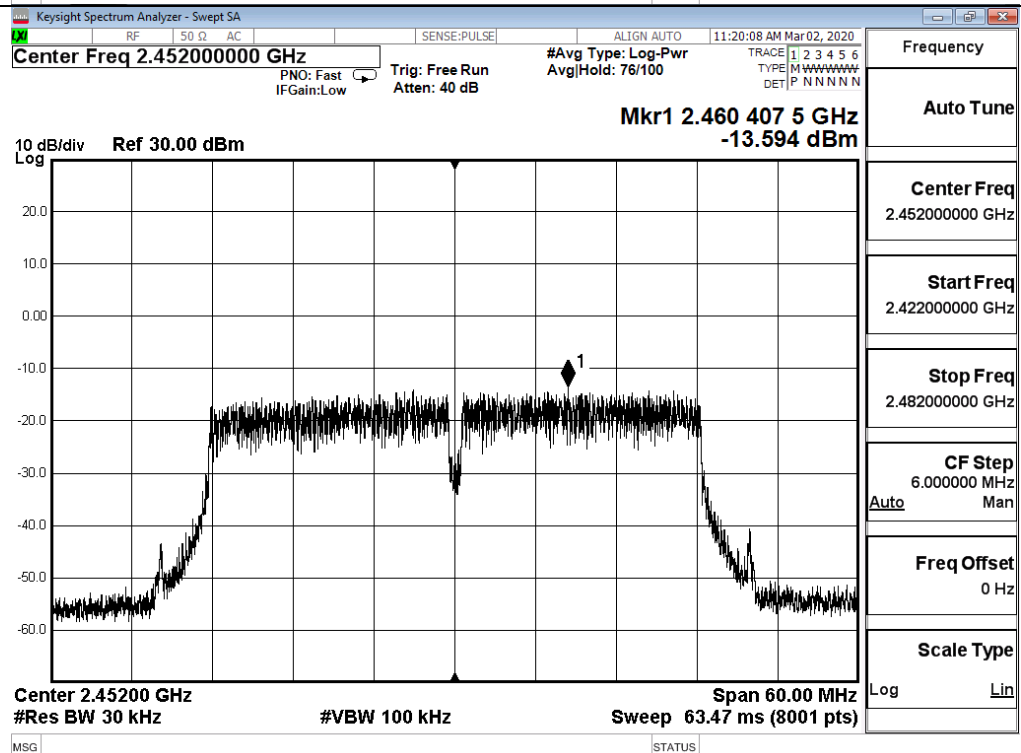
11N40SISO/LCH



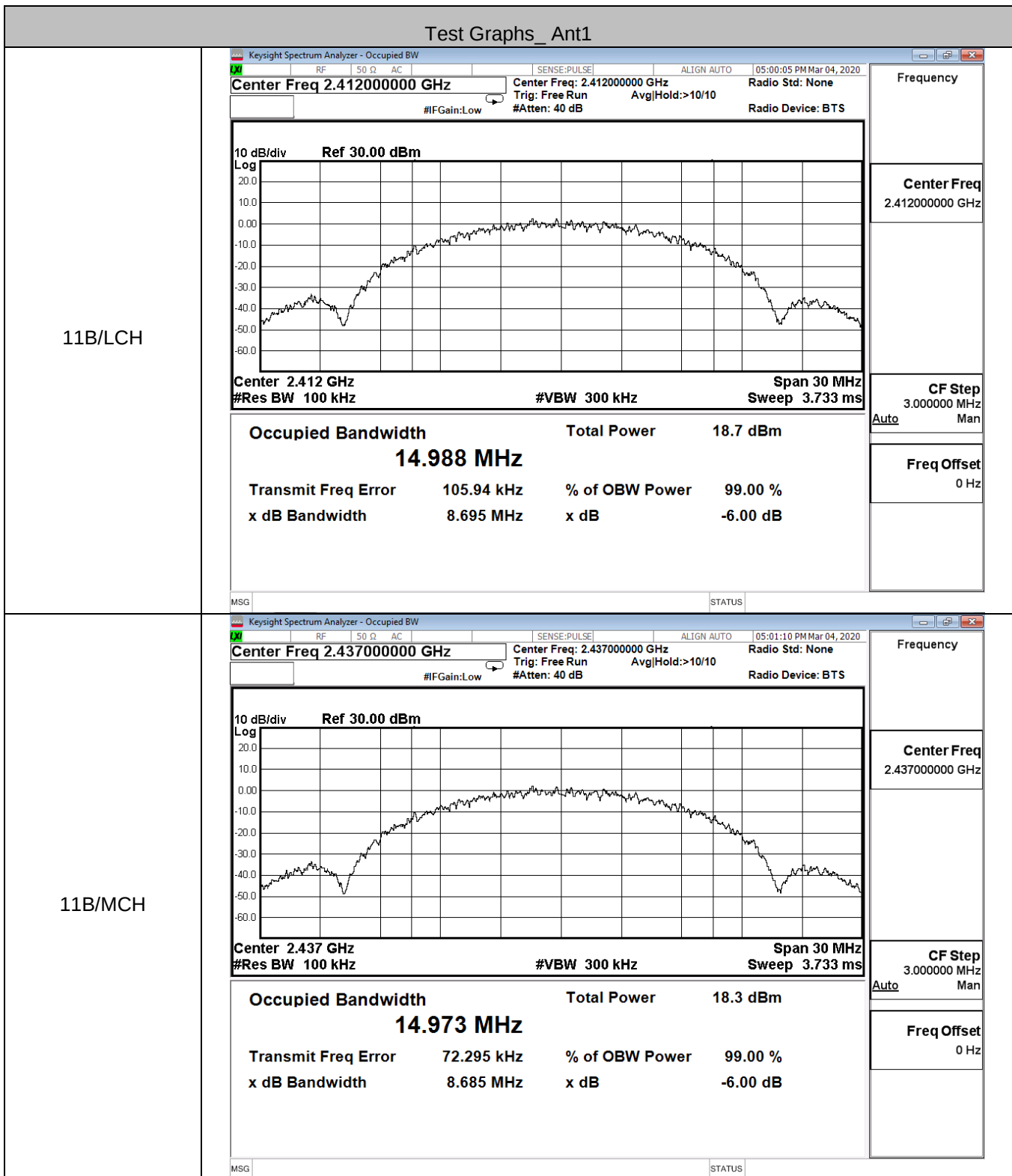
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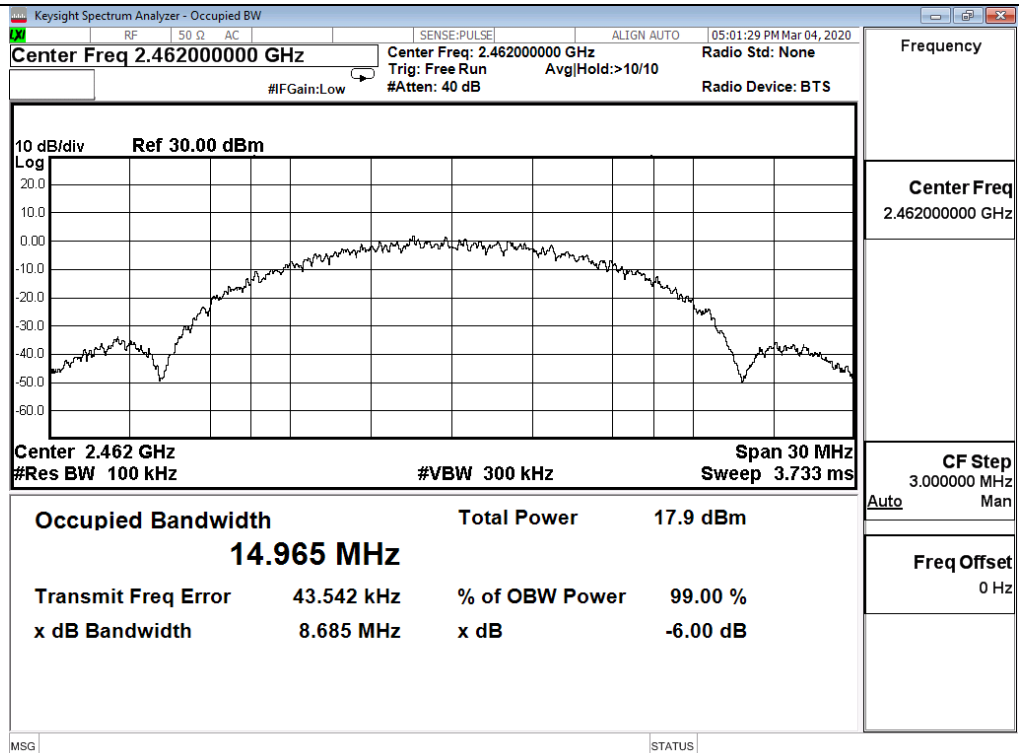
11N40SISO/HCH



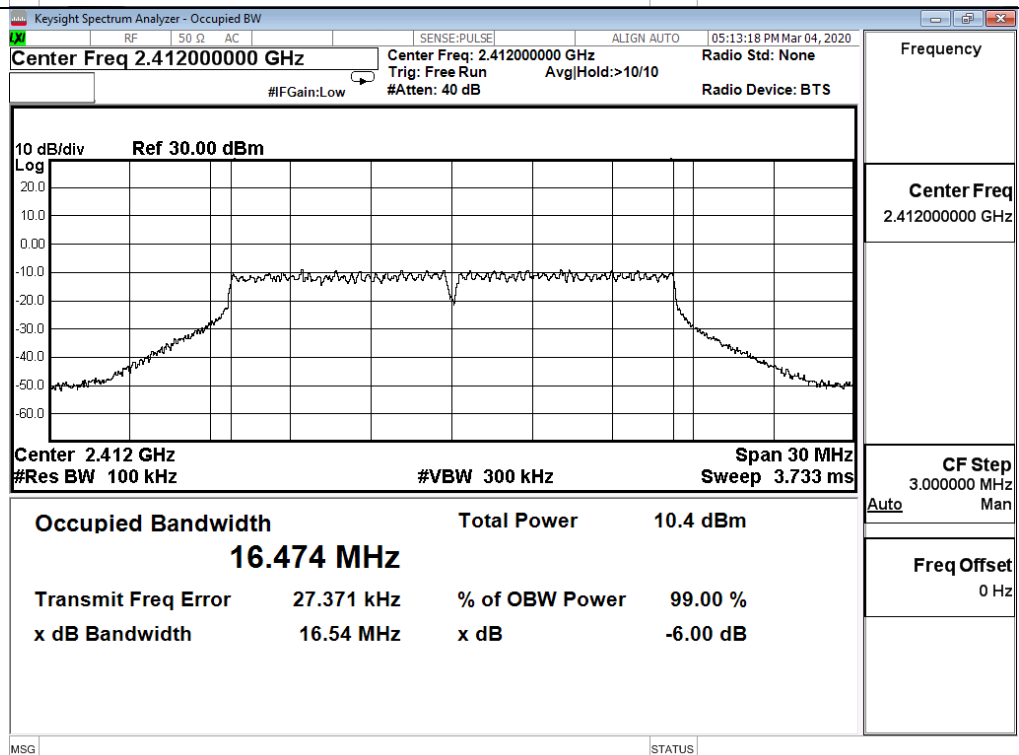
A.3 6dB Bandwidth



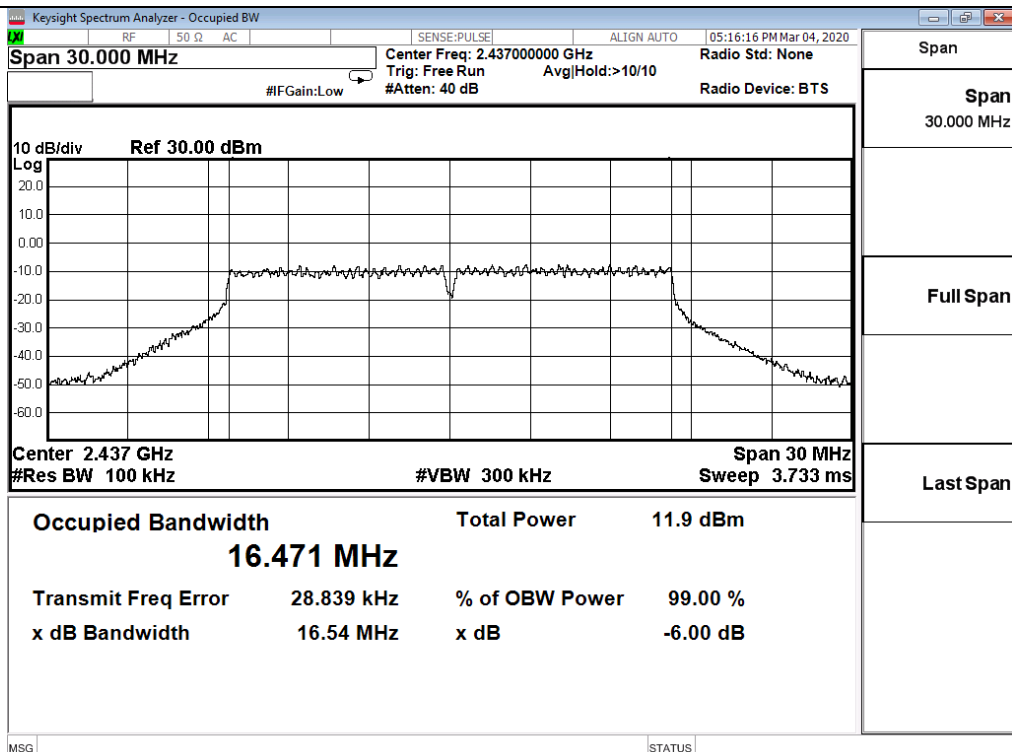
11B/HCH



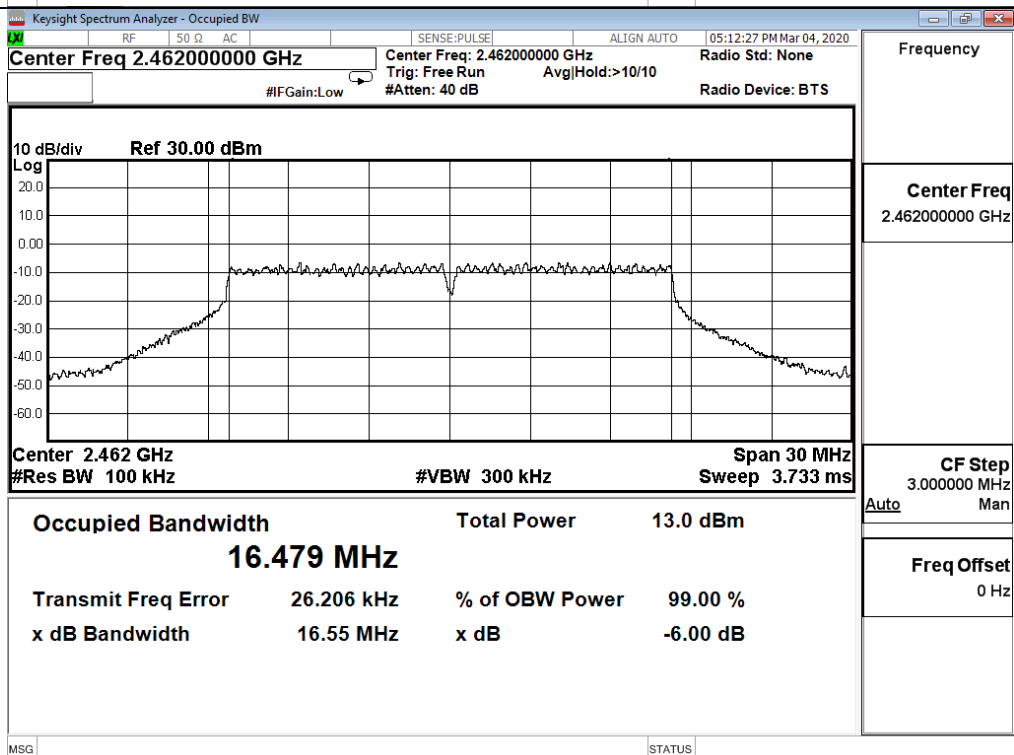
11G/LCH



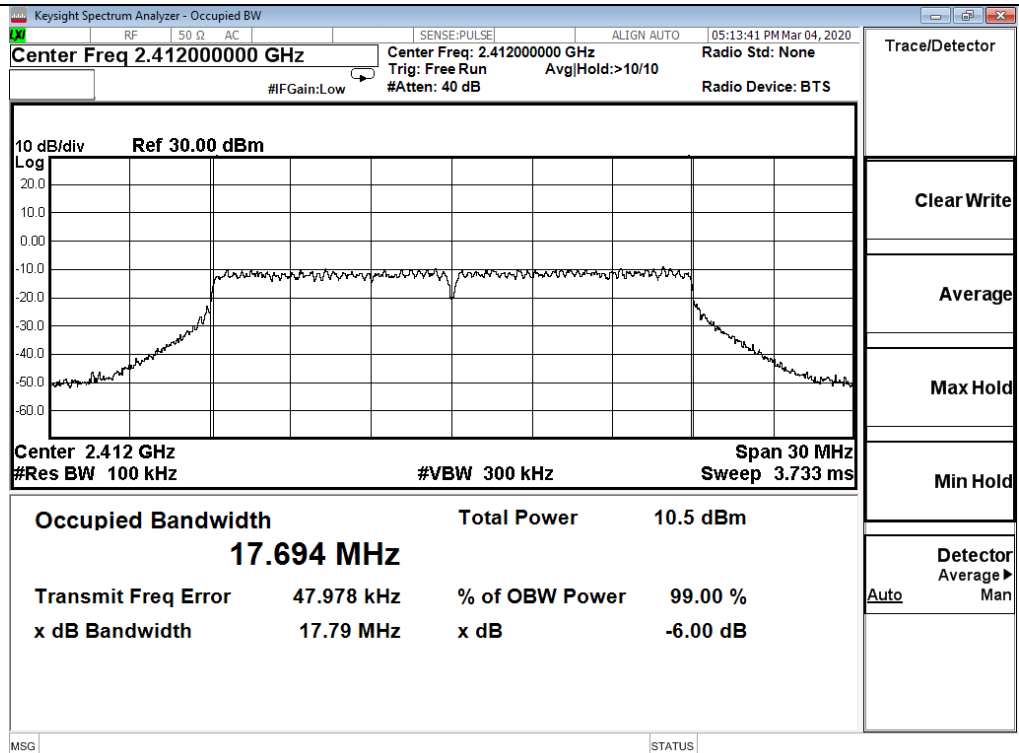
11G/MCH



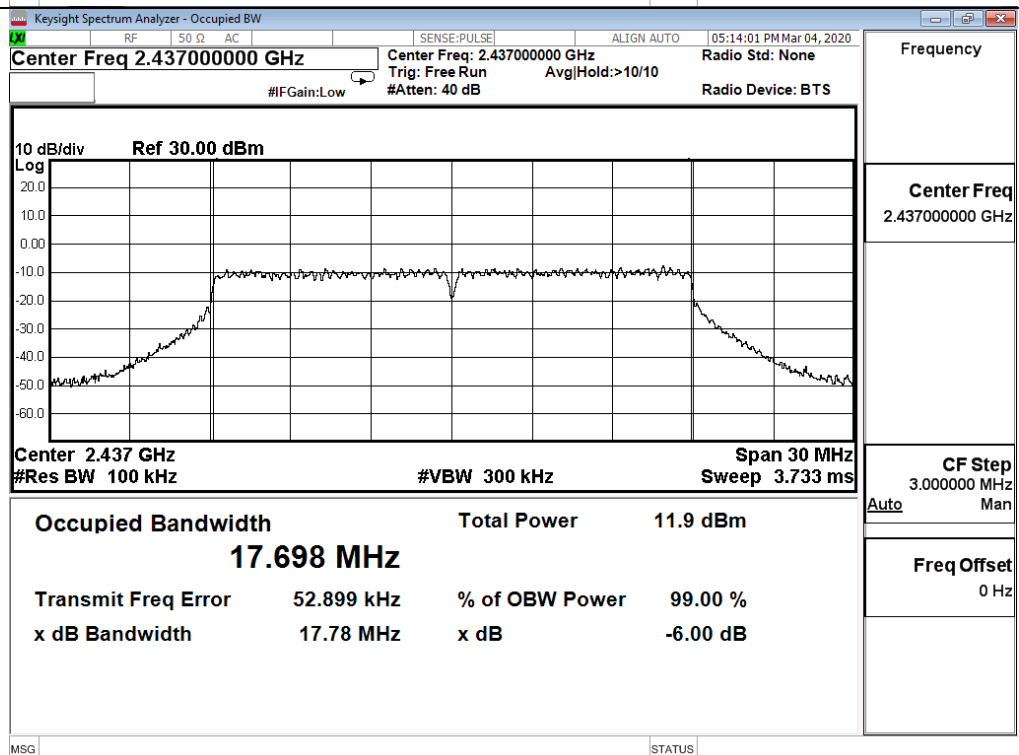
11G/HCH



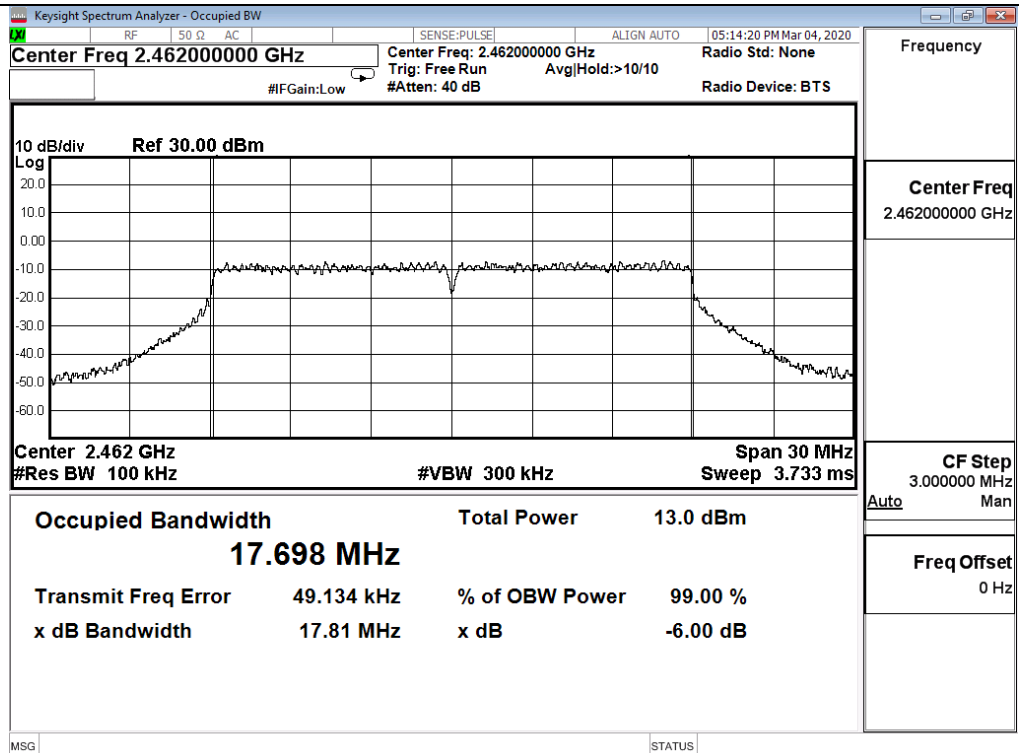
11N20SISO/LCH



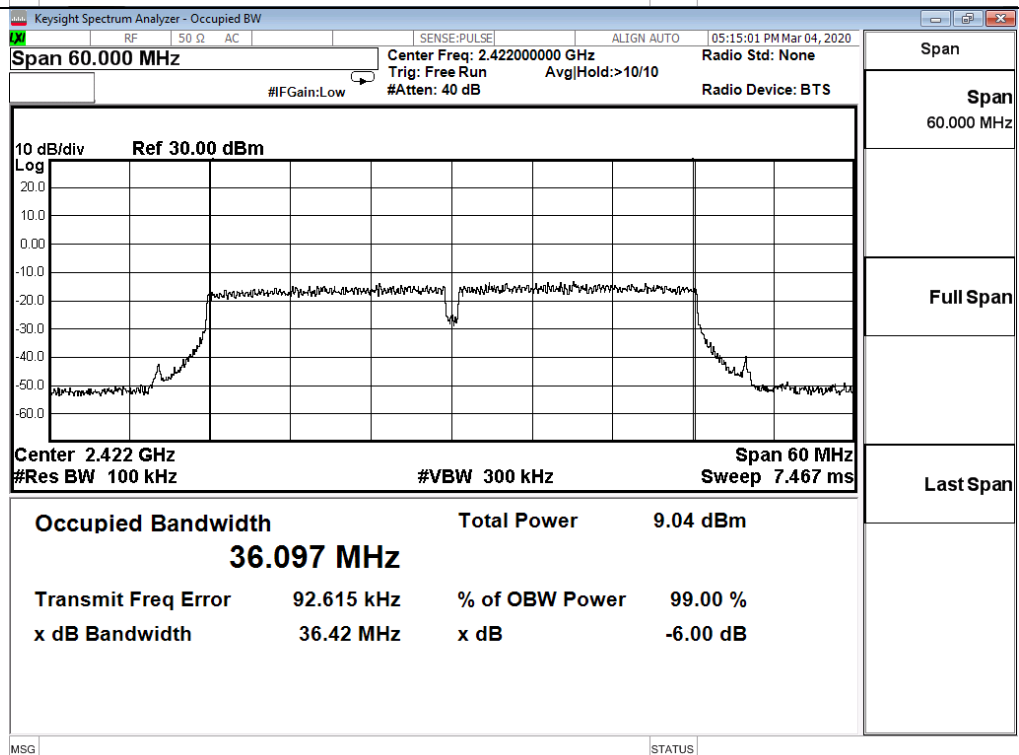
11N20SISO/MCH



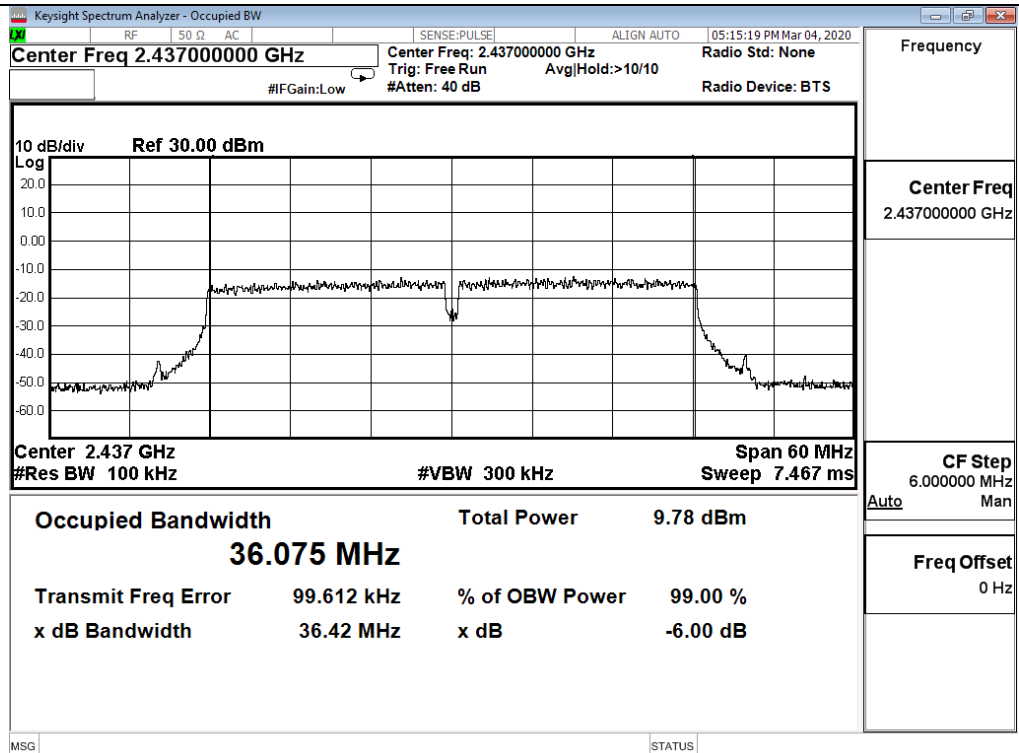
11N20SISO/HCH



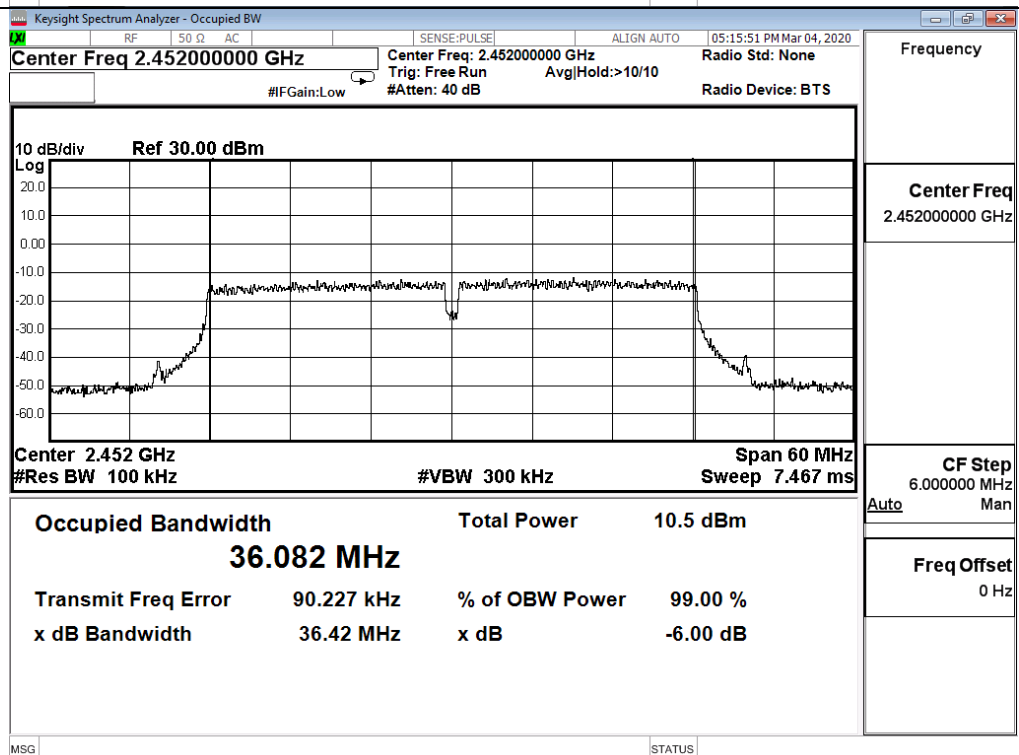
11N40SISO/LCH



11N40SISO/MCH

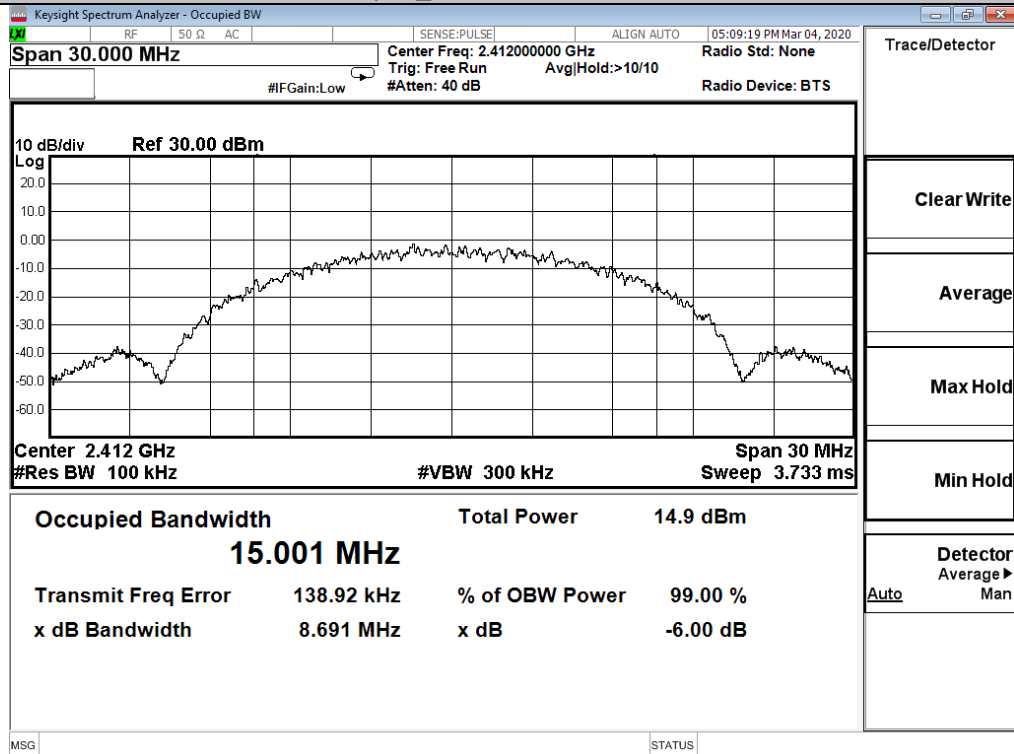


11N40SISO/HCH

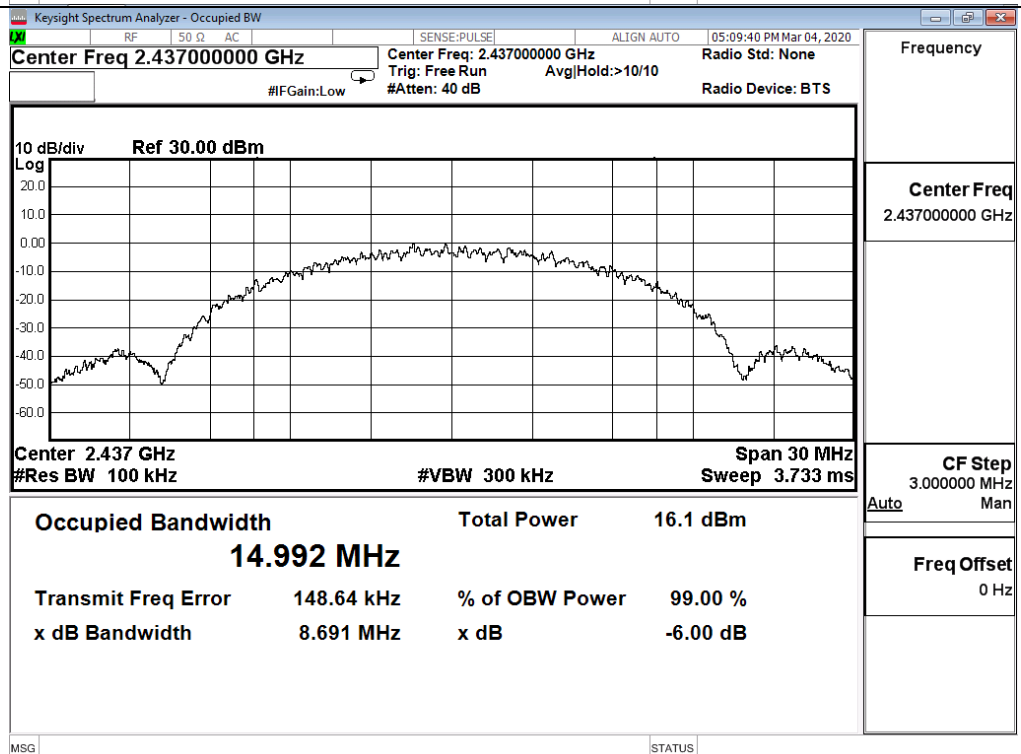


Test Graphs_Ant2

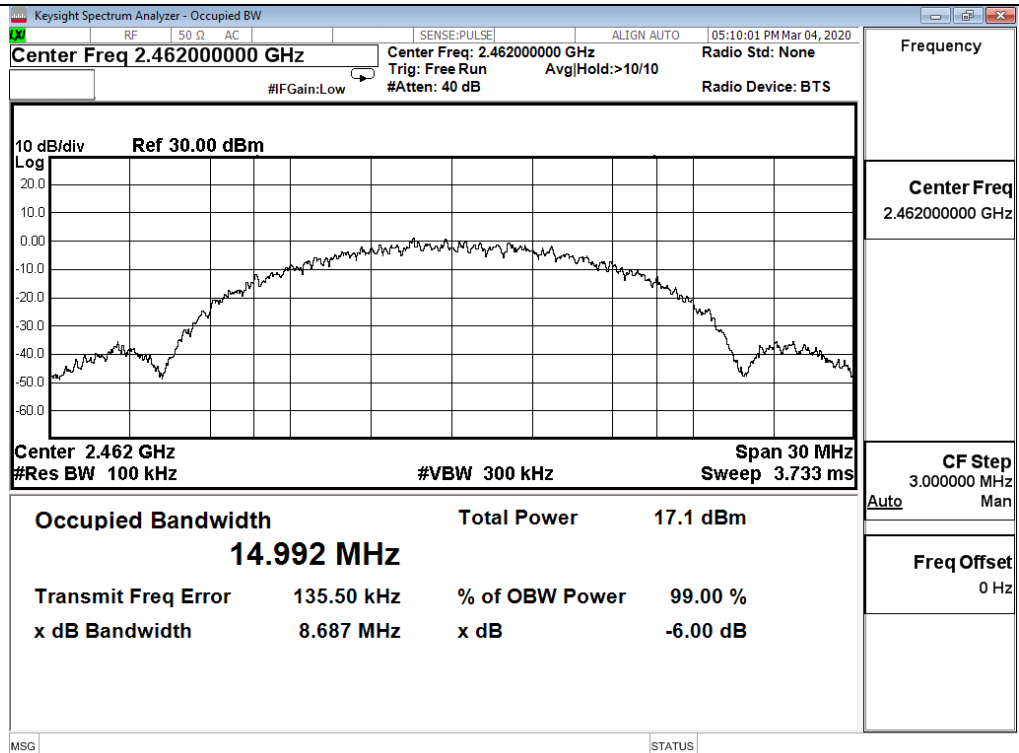
11B/LCH



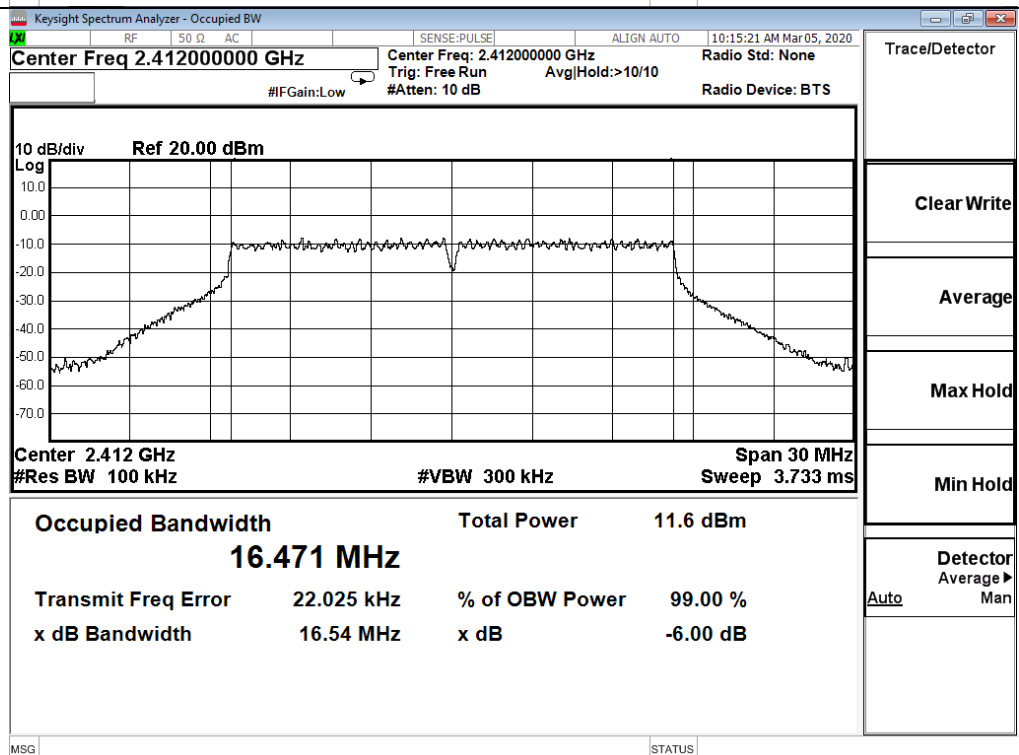
11B/MCH



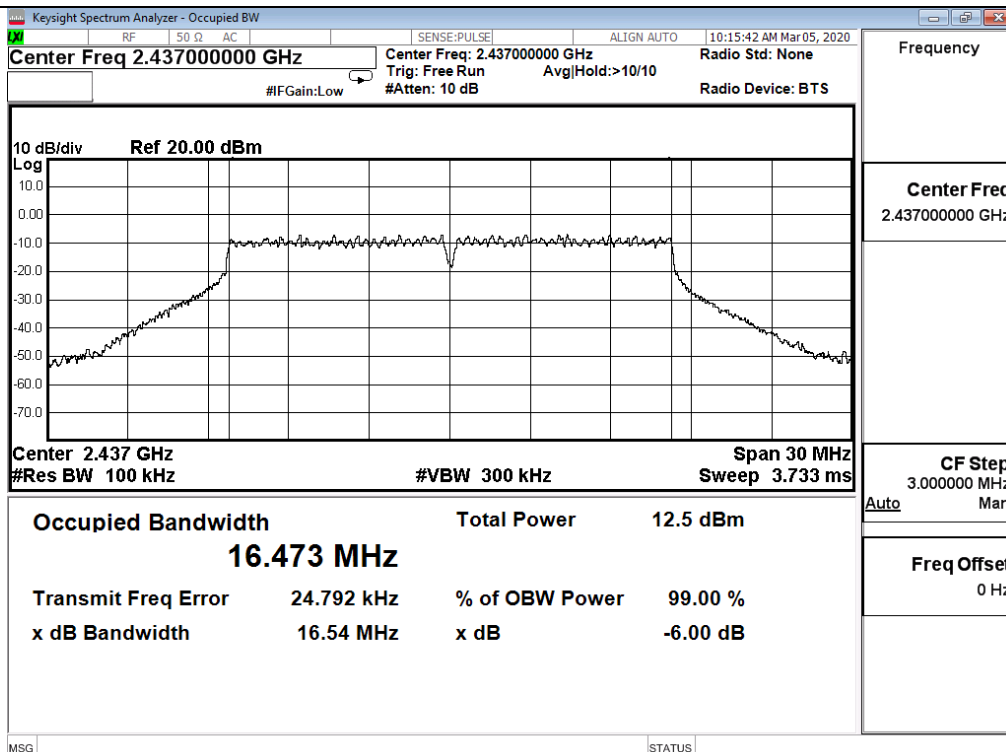
11B/HCH



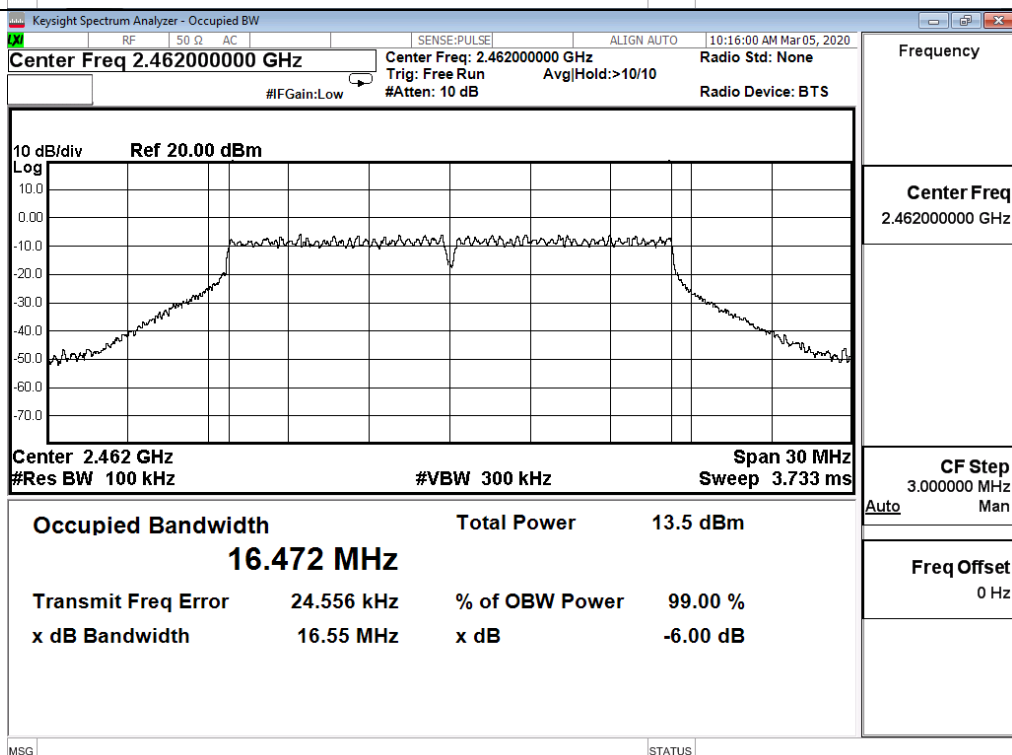
11G/LCH



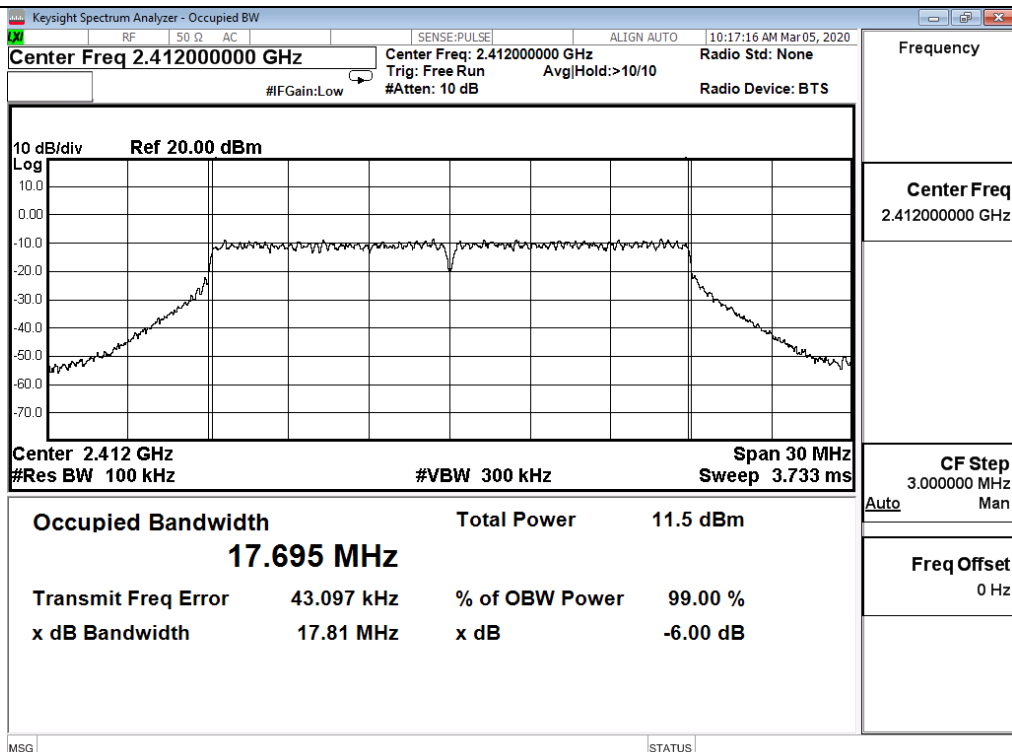
11G/MCH



11G/HCH



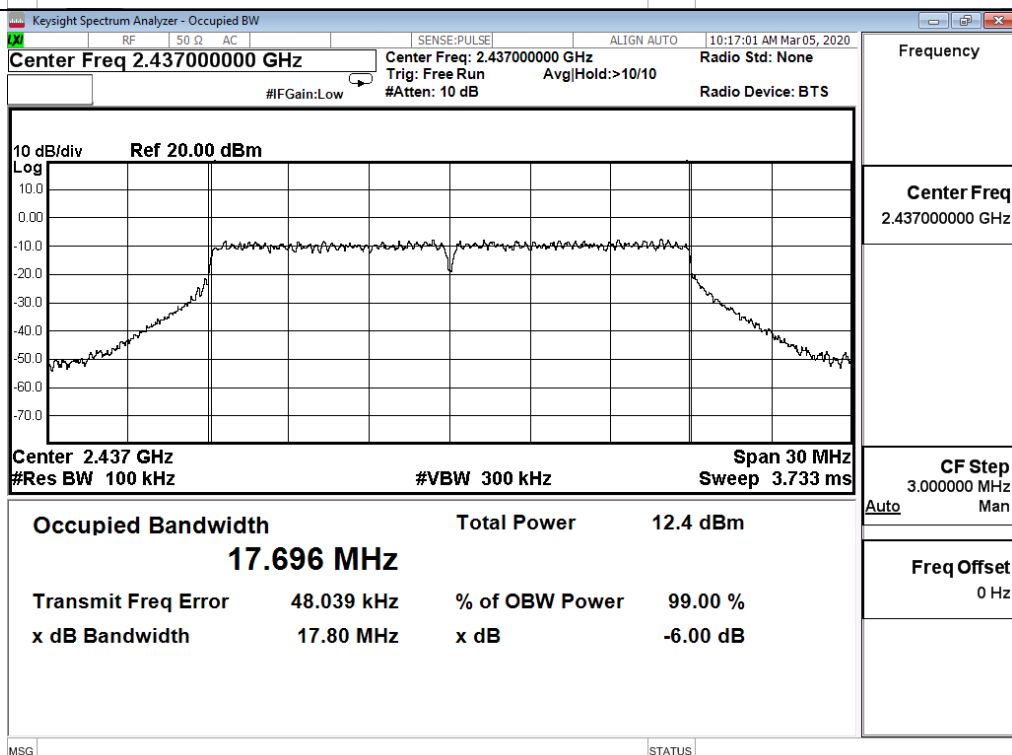
11N20SISO/LCH



Frequency

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

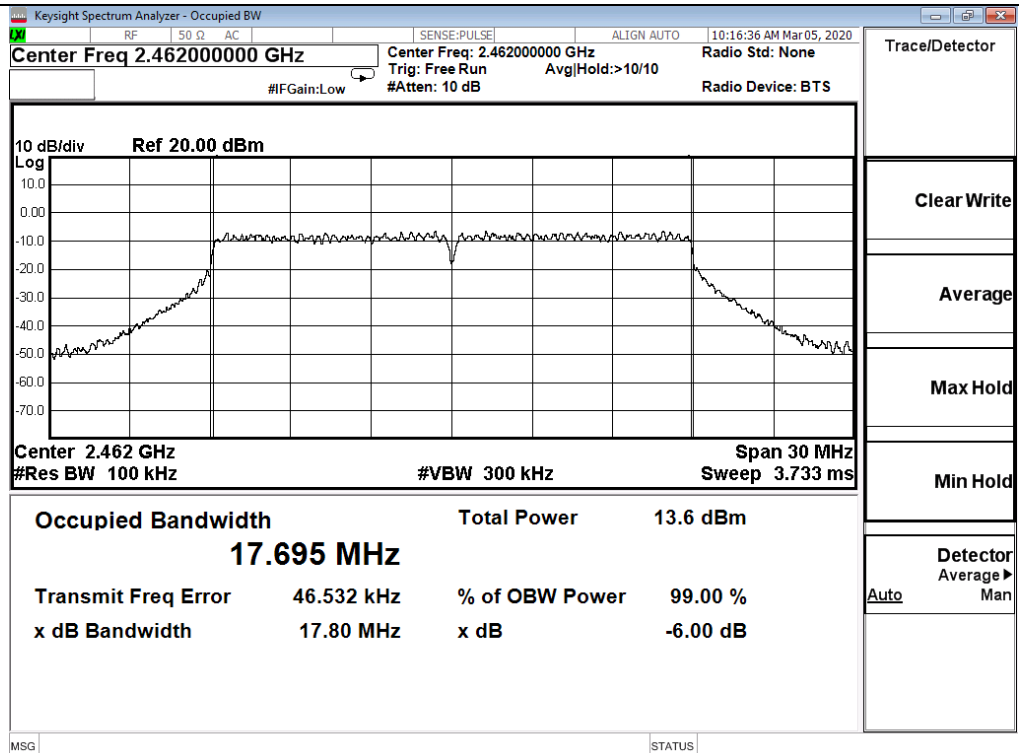
11N20SISO/MCH



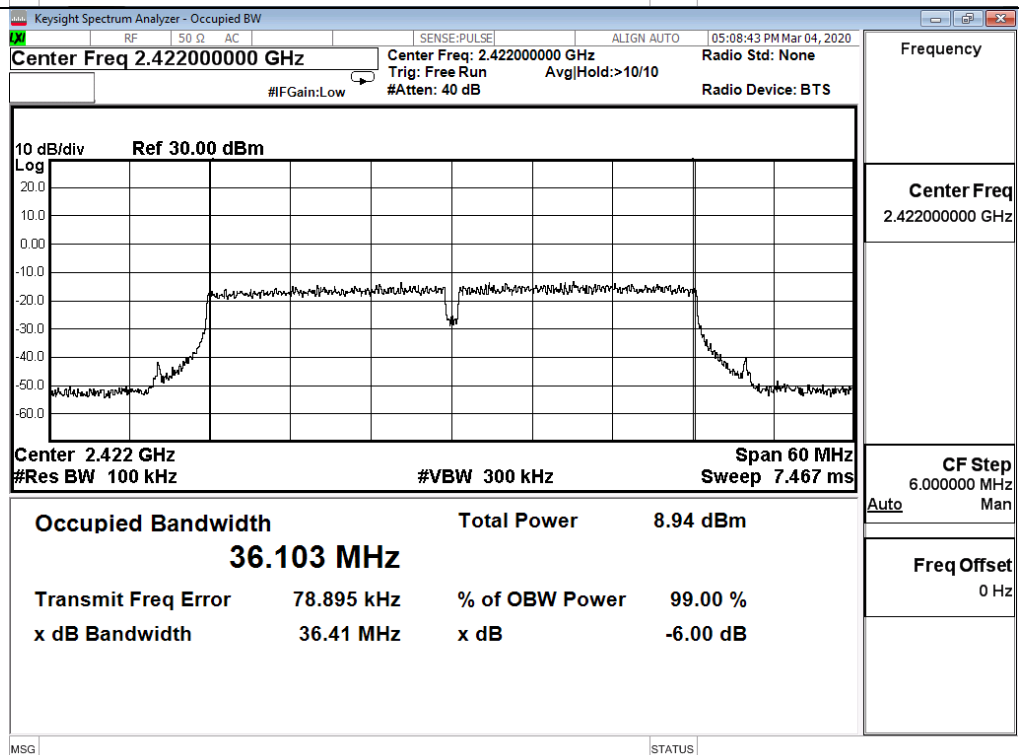
Frequency

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

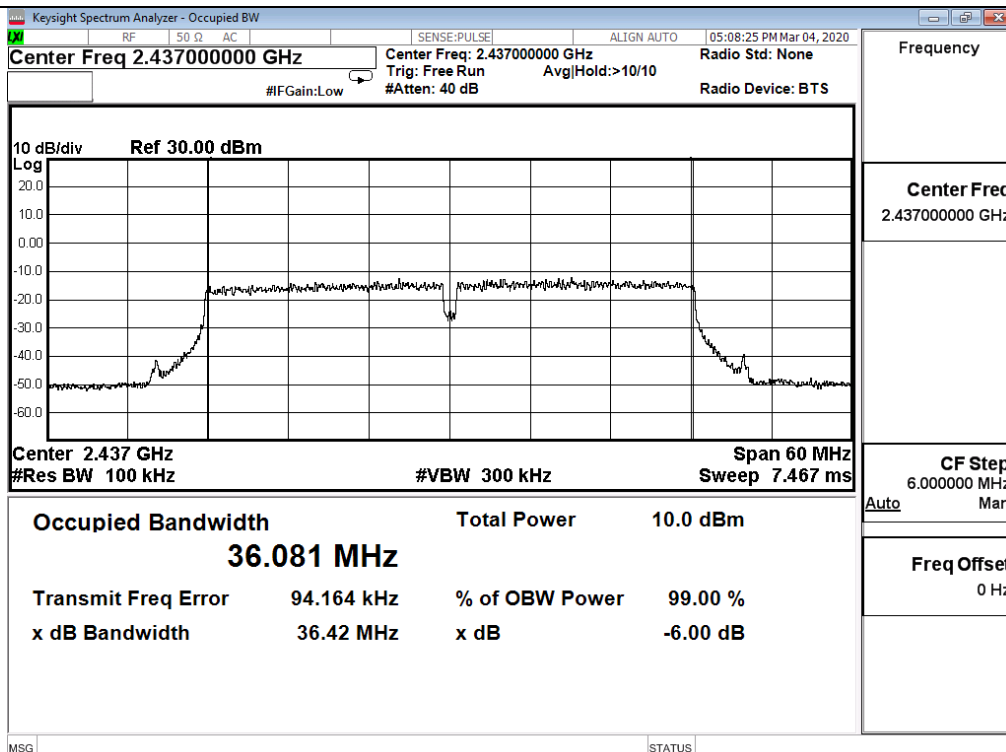
11N20SISO/HCH



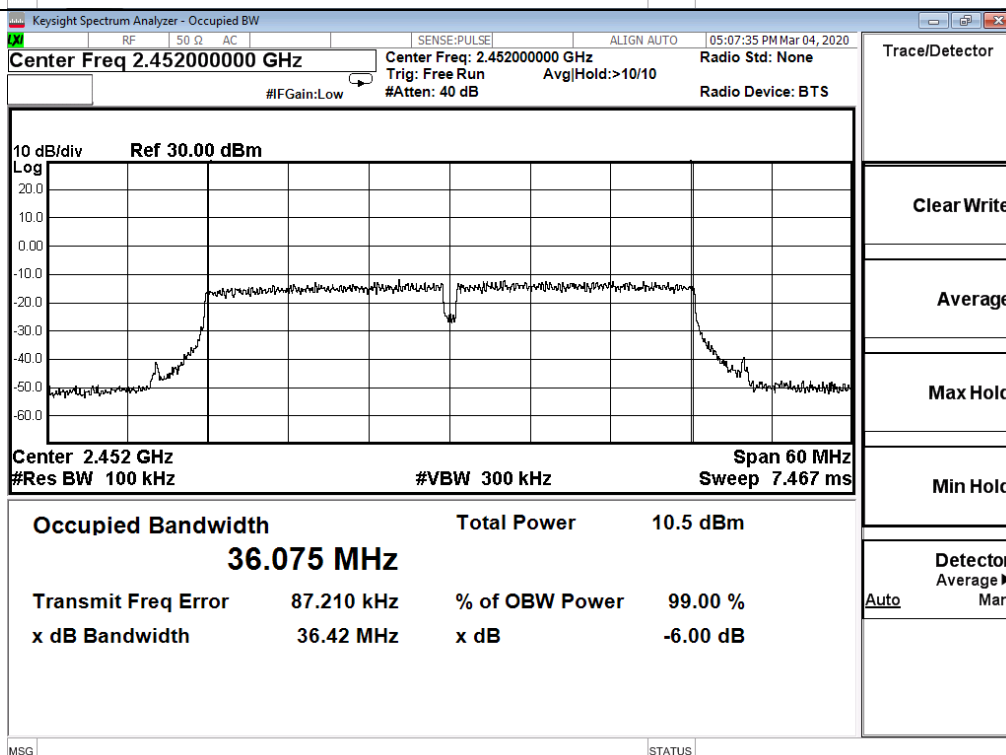
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH

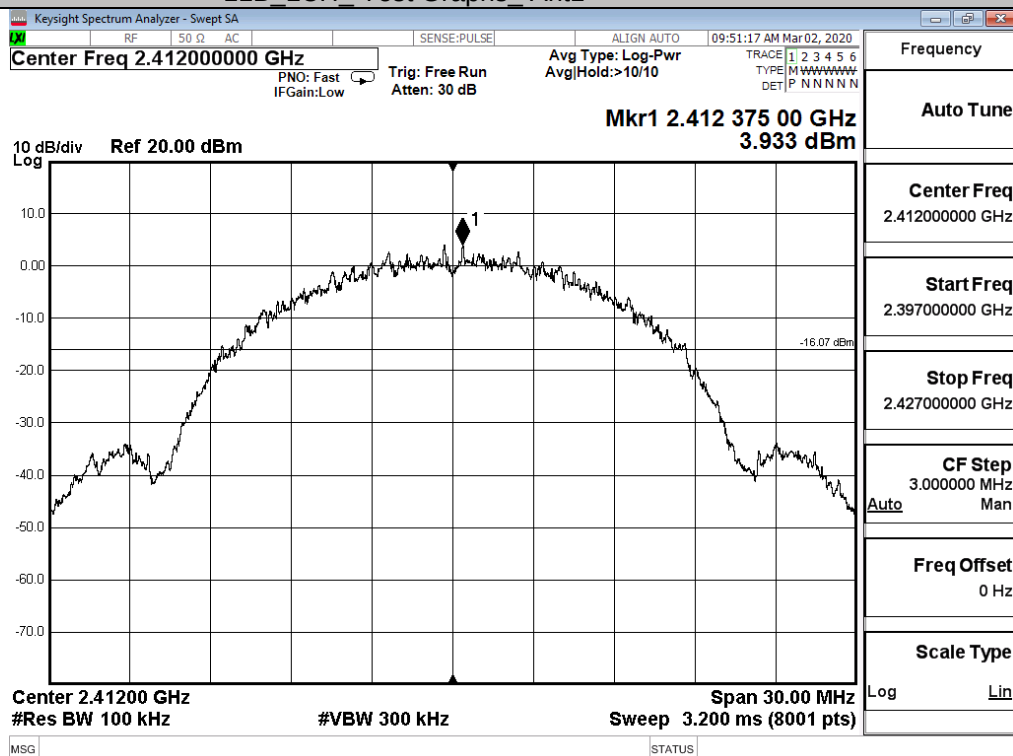


A.4 RF Conducted Spurious Emissions

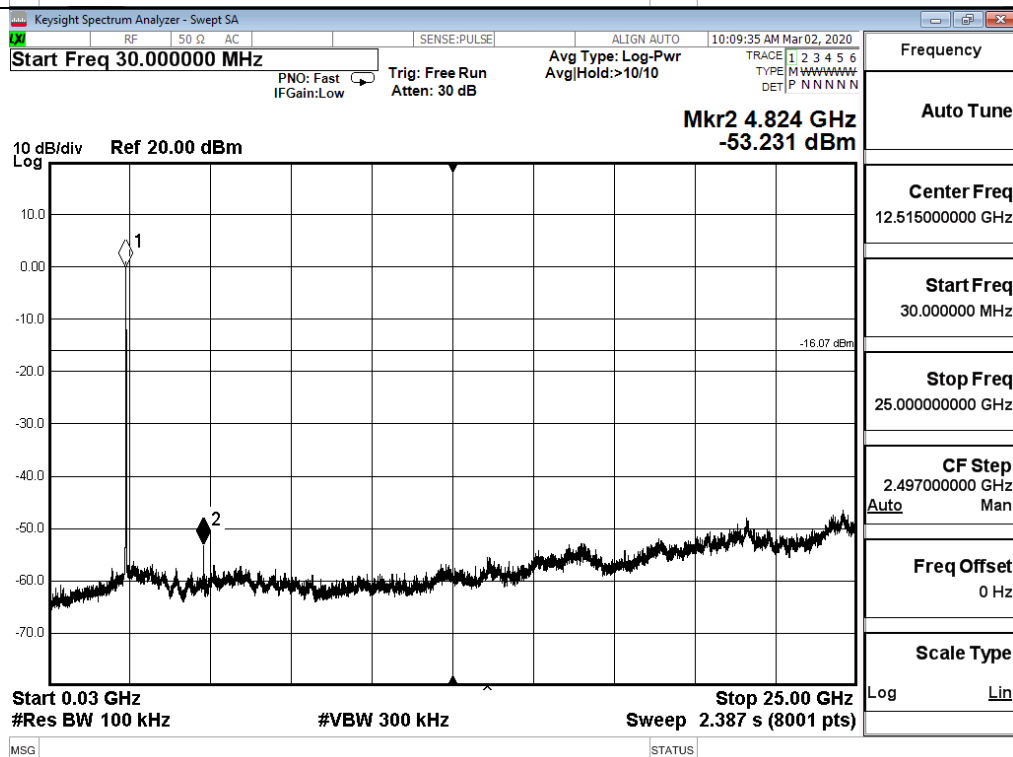
Mode	Channel	Antenna	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	Ant1	3.933	-53.231	-16.07	PASS
	MCH	Ant1	1.989	-50.527	-18.01	PASS
	HCH	Ant1	3.738	-47.901	-16.31	PASS
11G	LCH	Ant1	-3.969	-56.311	-23.97	PASS
	MCH	Ant1	-3.785	-56.512	-23.79	PASS
	HCH	Ant1	-4.086	-56.746	-24.09	PASS
11N20SISO	LCH	Ant1	-3.943	-55.351	-23.94	PASS
	MCH	Ant1	-3.766	-56.438	-23.77	PASS
	HCH	Ant1	-3.983	-57.291	-23.98	PASS
11N40SISO	LCH	Ant1	-9.098	-56.408	-29.10	PASS
	MCH	Ant1	-7.762	-57.482	-27.77	PASS
	HCH	Ant1	-7.717	-55.765	-27.72	PASS
11B	LCH	Ant2	-0.739	-51.175	-20.74	PASS
	MCH	Ant2	0.443	-52.373	-19.56	PASS
	HCH	Ant2	1.694	-1.514	-18.31	PASS
11G	LCH	Ant2	-8.239	-51.423	-28.24	PASS
	MCH	Ant2	-6.995	-51.764	-26.98	PASS
	HCH	Ant2	-5.833	-53.247	-25.83	PASS
11N20SISO	LCH	Ant2	-8.669	-51.343	-28.67	PASS
	MCH	Ant2	-7.423	-53.292	-27.42	PASS
	HCH	Ant2	-6.222	-53.259	-26.22	PASS
11N40SISO	LCH	Ant2	-11.983	-51.501	-31.98	PASS
	MCH	Ant2	-11.097	-52.116	-31.10	PASS
	HCH	Ant2	-10.414	-54.324	-30.41	PASS

11B_LCH_Test Graphs_Ant1

Pref/11B/LCH

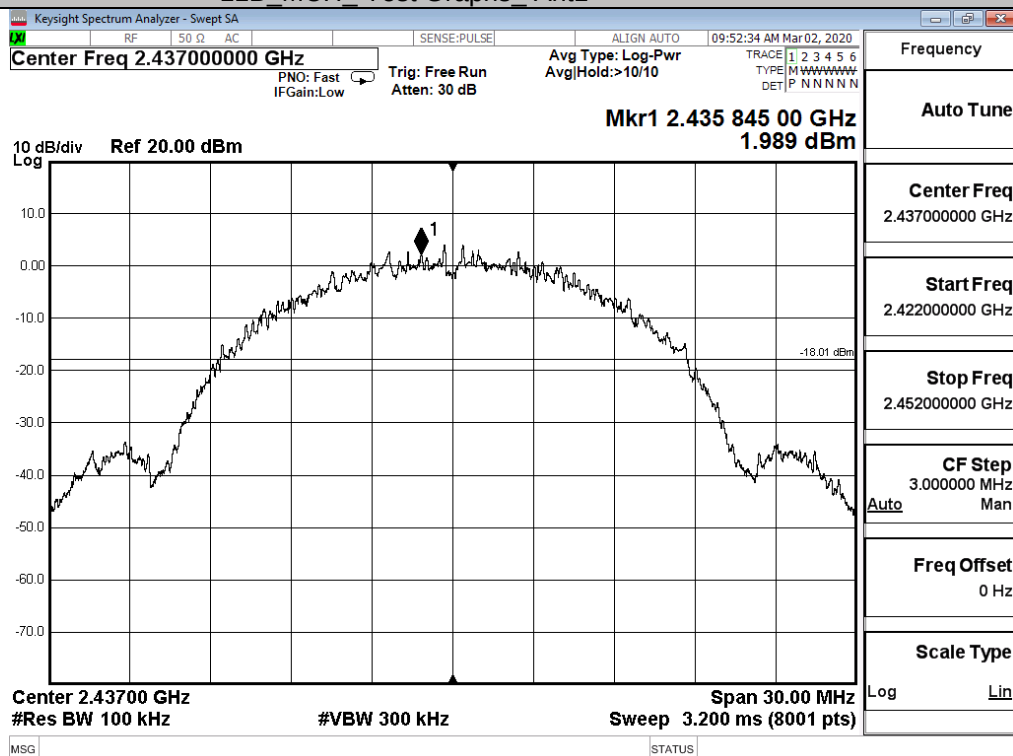


Puw/11B/LCH

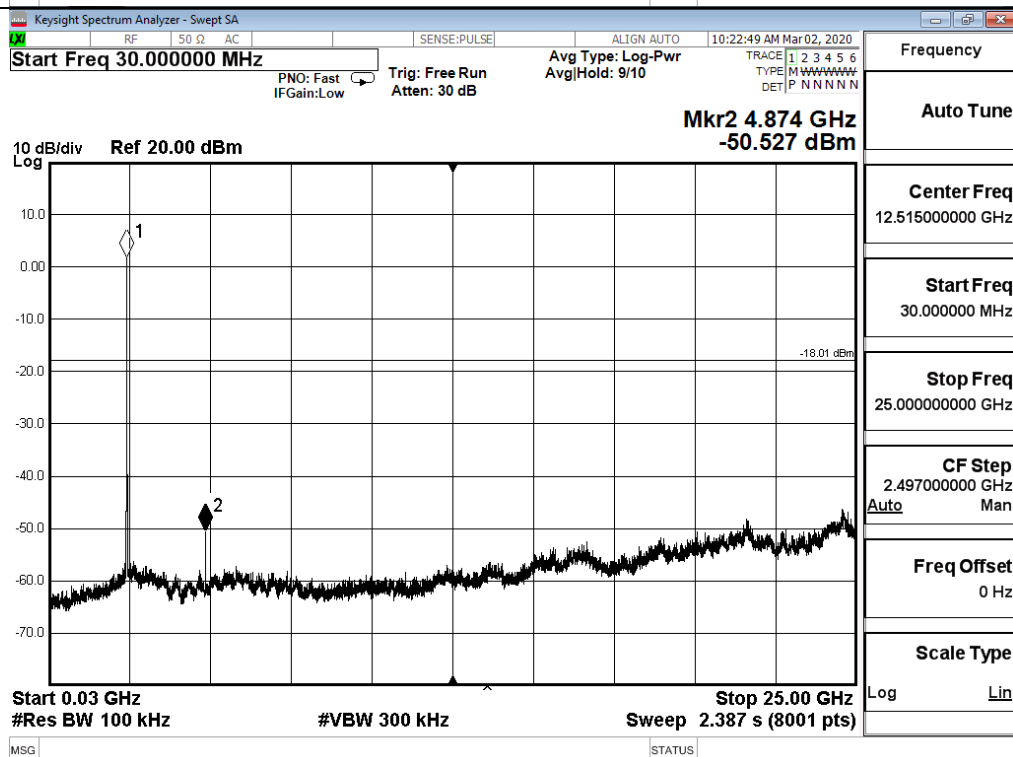


11B_MCH_Test Graphs_Ant1

Pref/11B/MCH

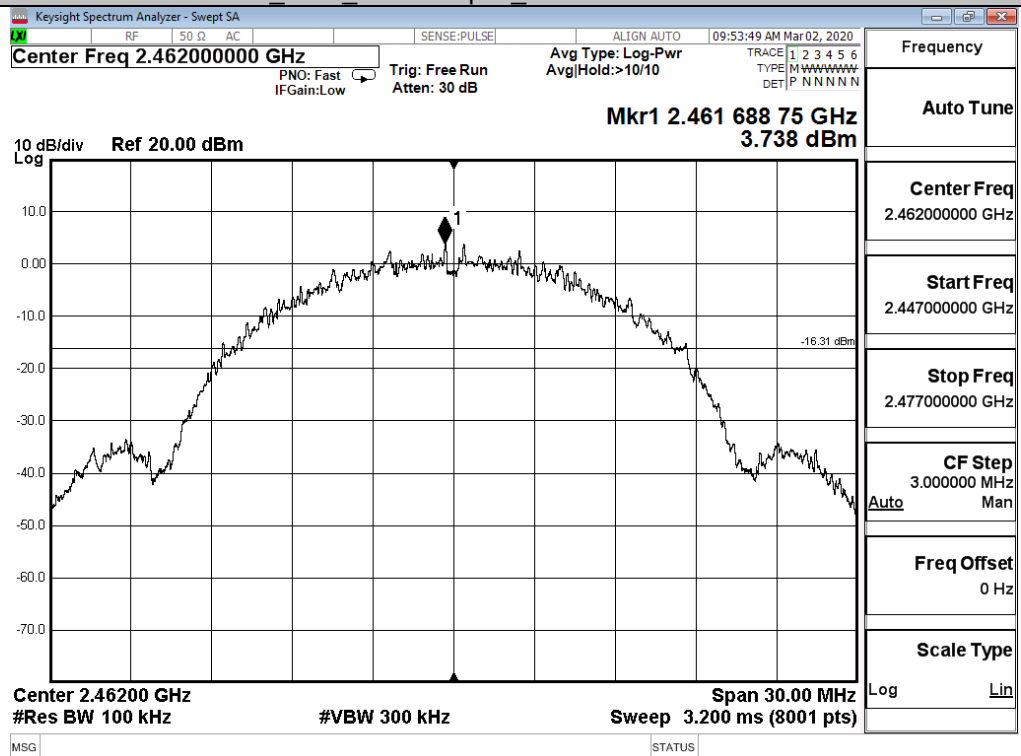


Puw/11B/MCH

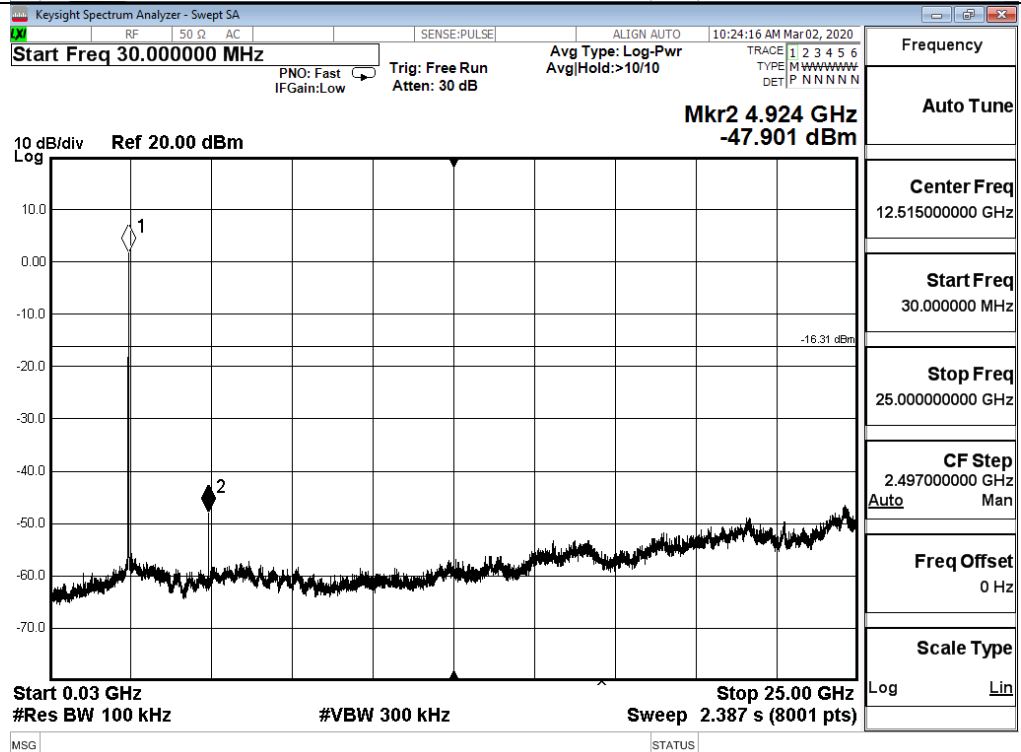


11B_HCH Test Graphs_Ant1

Pref/11B/HCH

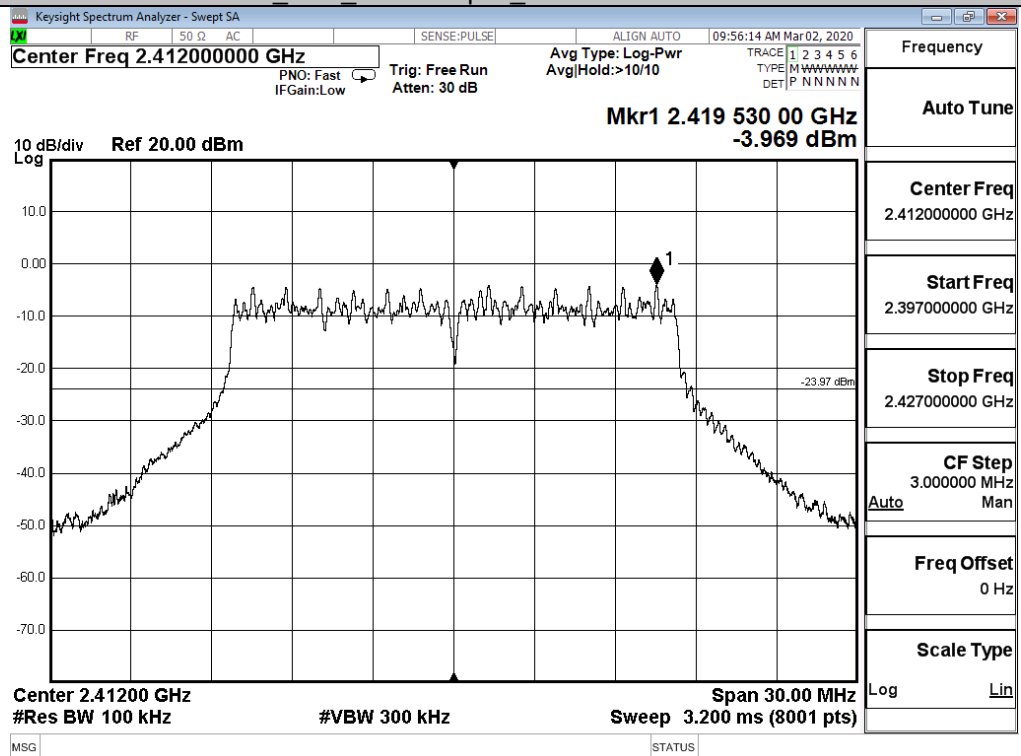


Puw/11B/HCH

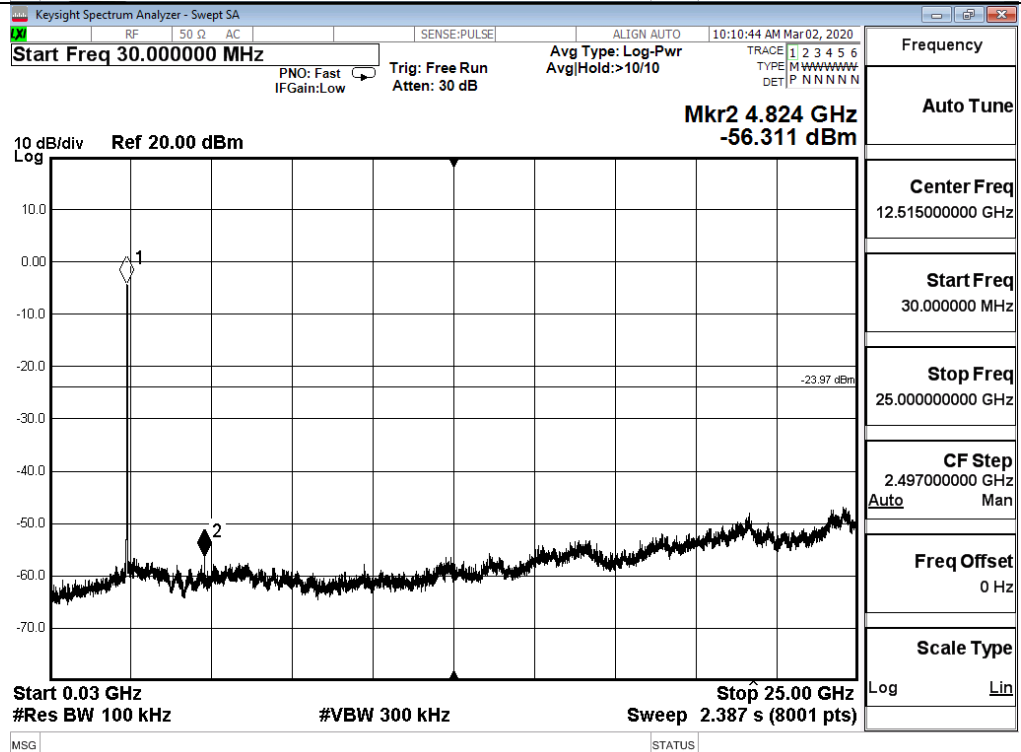


11G_LCH_Test Graphs_Ant1

Pref/11G/LCH

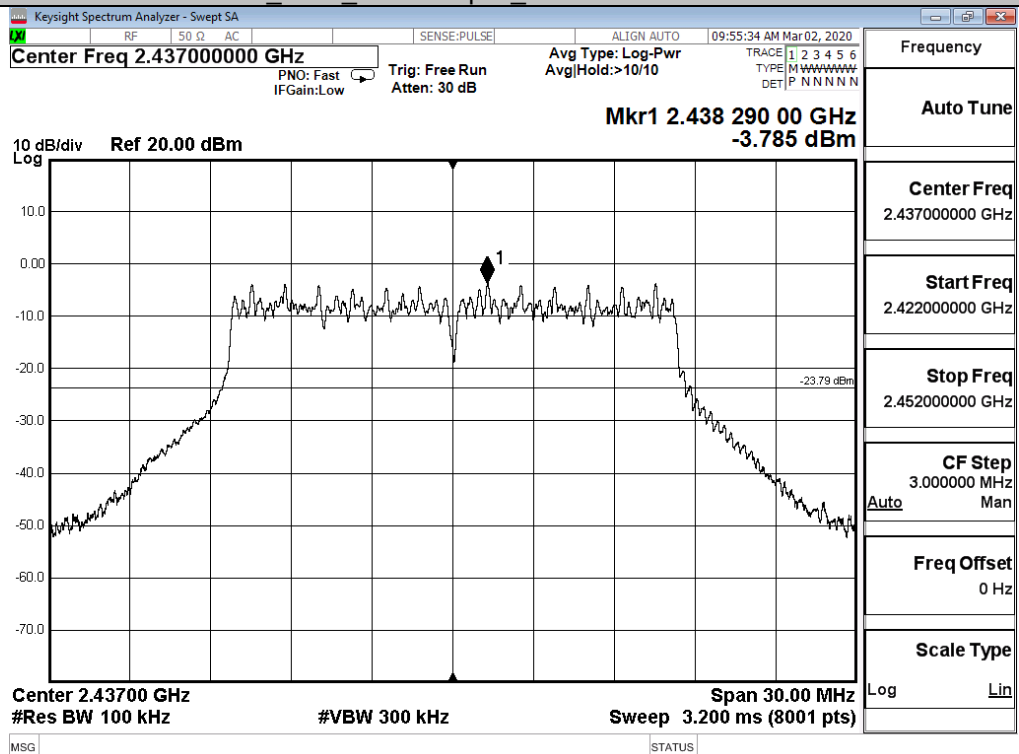


Puw/11G/LCH

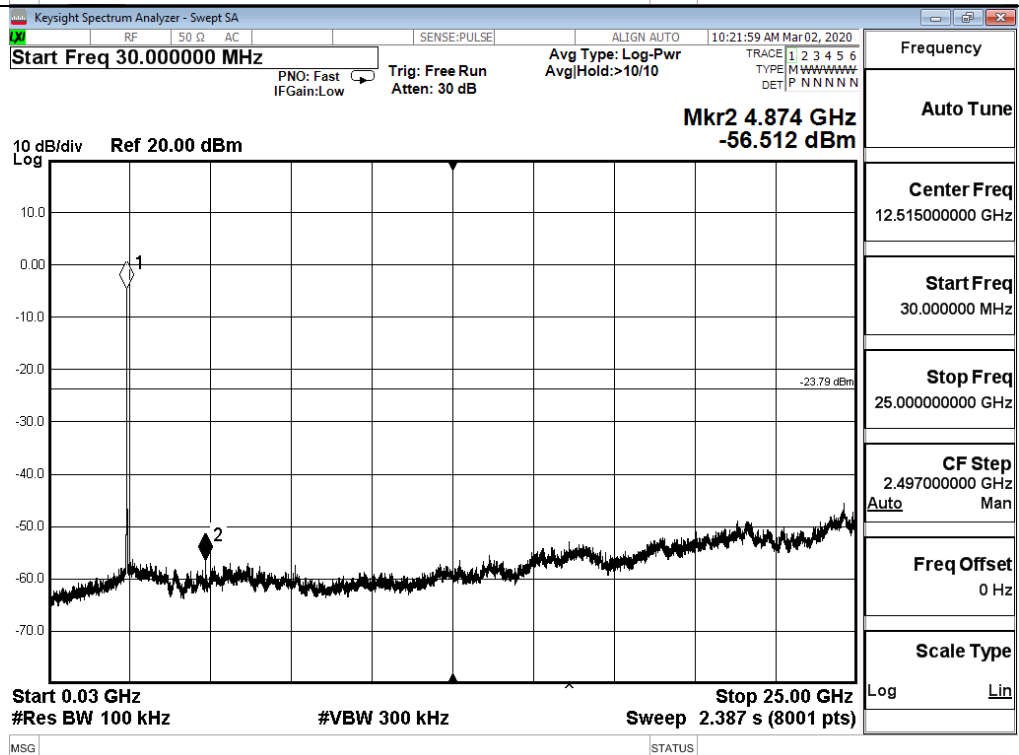


11G_MCH_Test Graphs_Ant1

Pref/11G/MCH

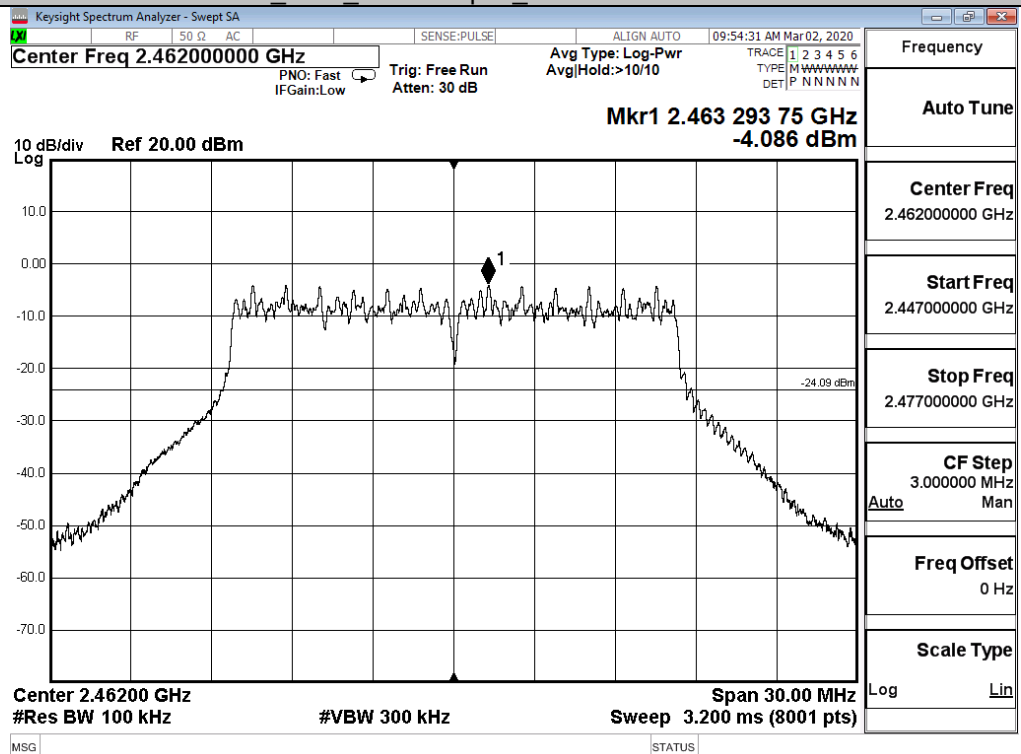


Puw/11G/MCH

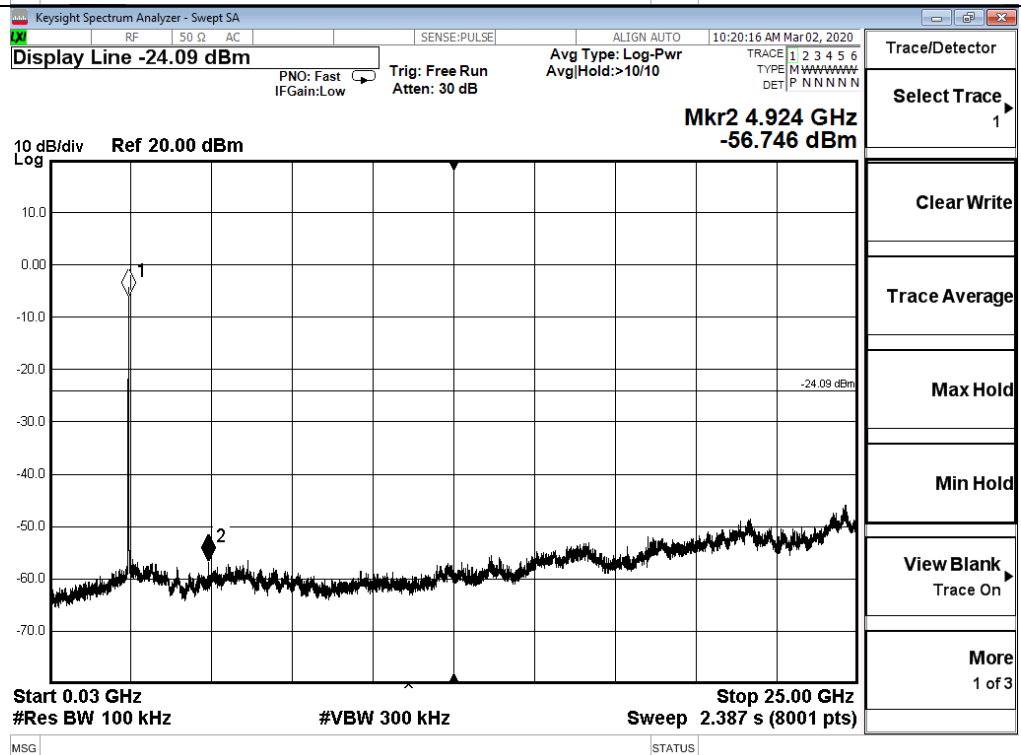


11G_HCH_Test Graphs_Ant1

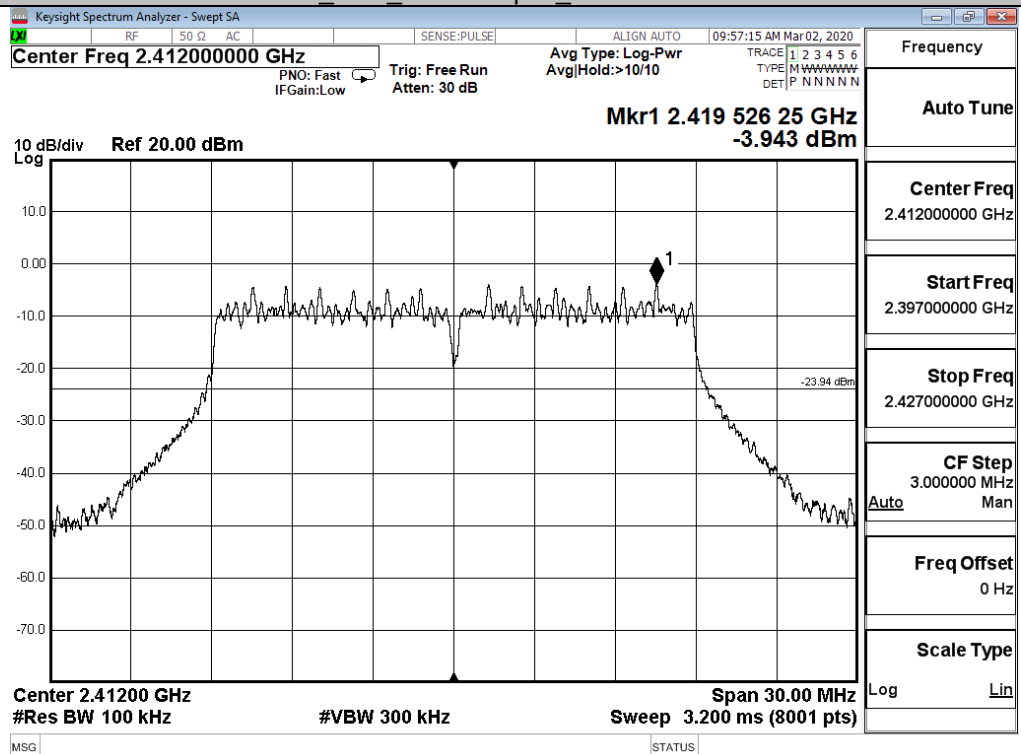
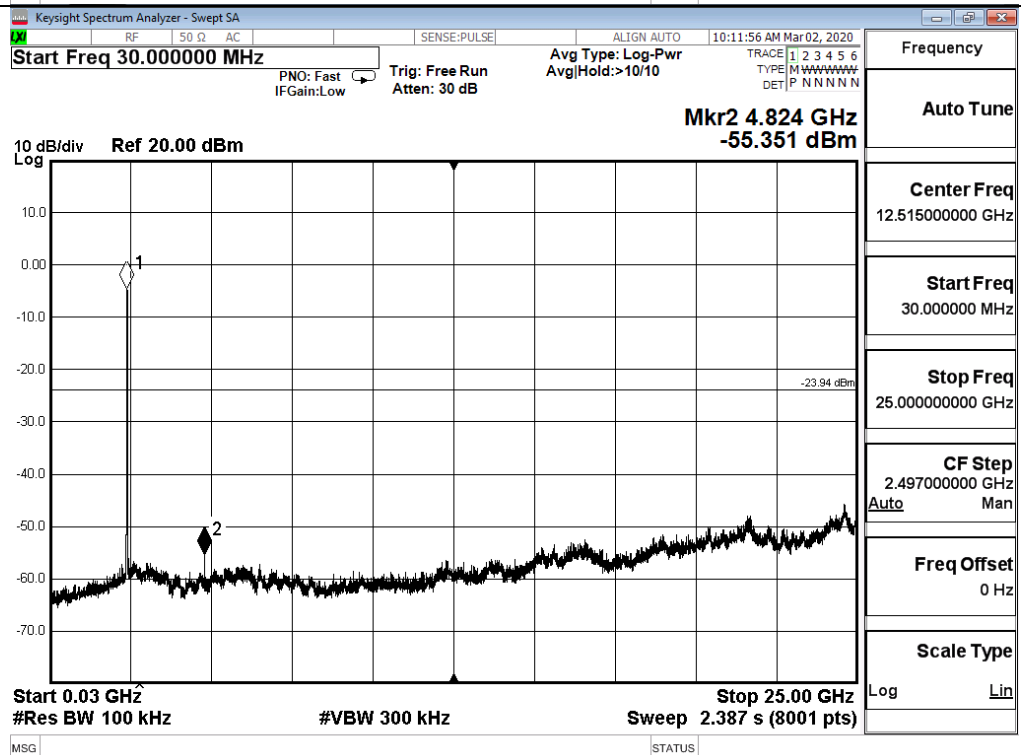
Pref/11G/HCH



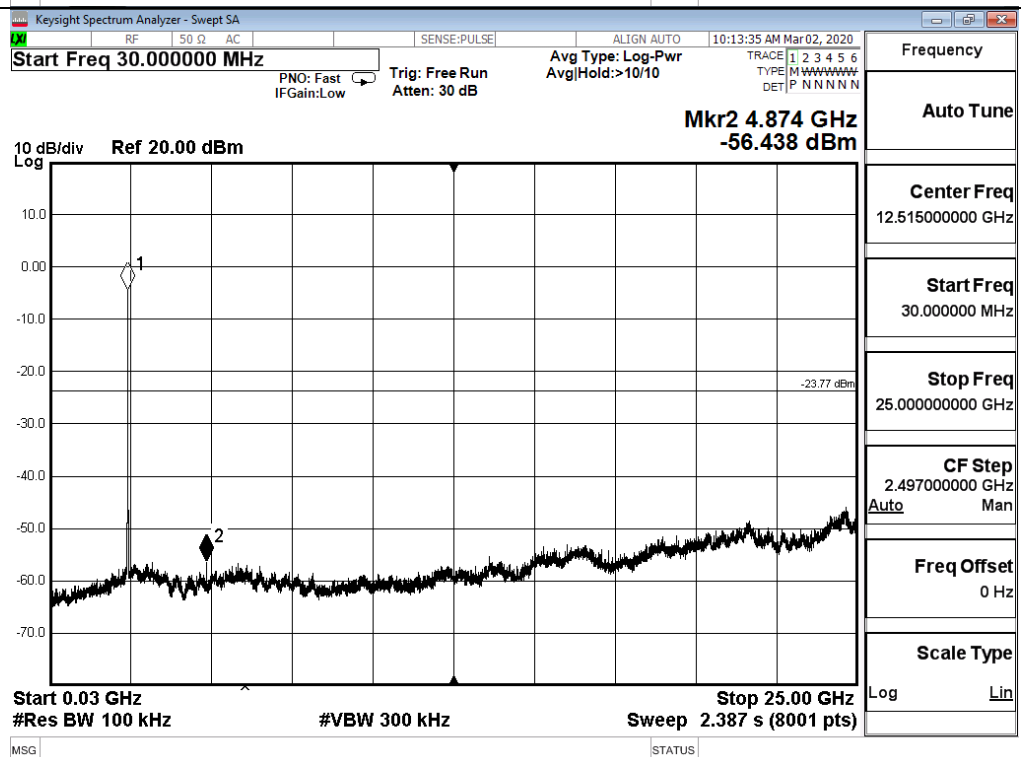
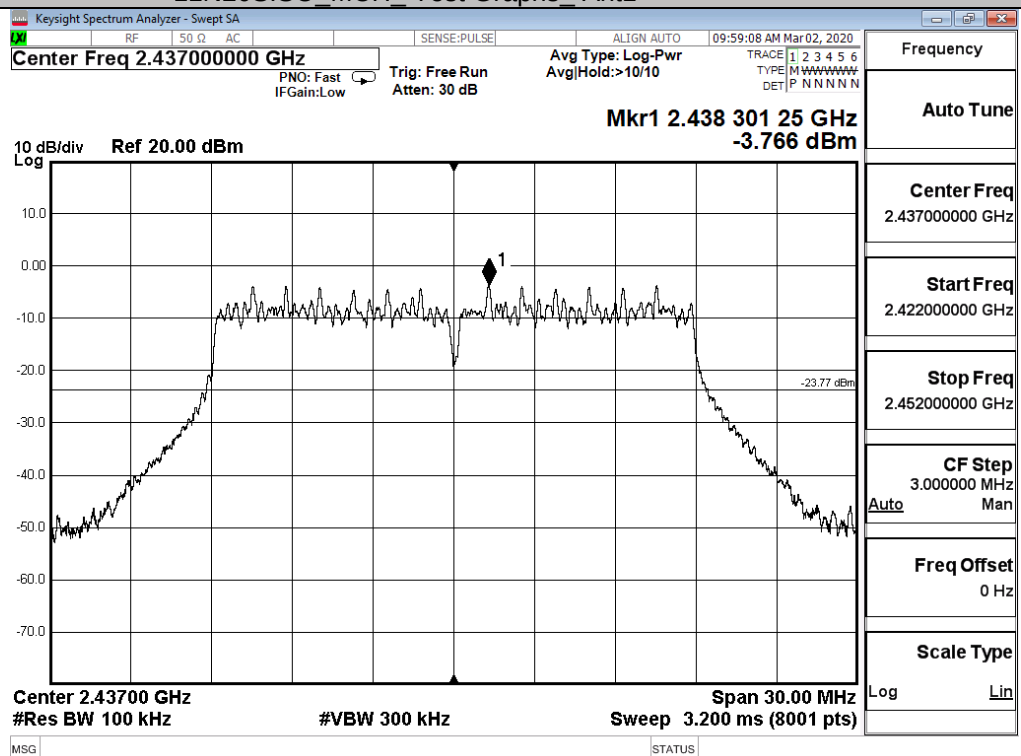
Puw/11G/HCH



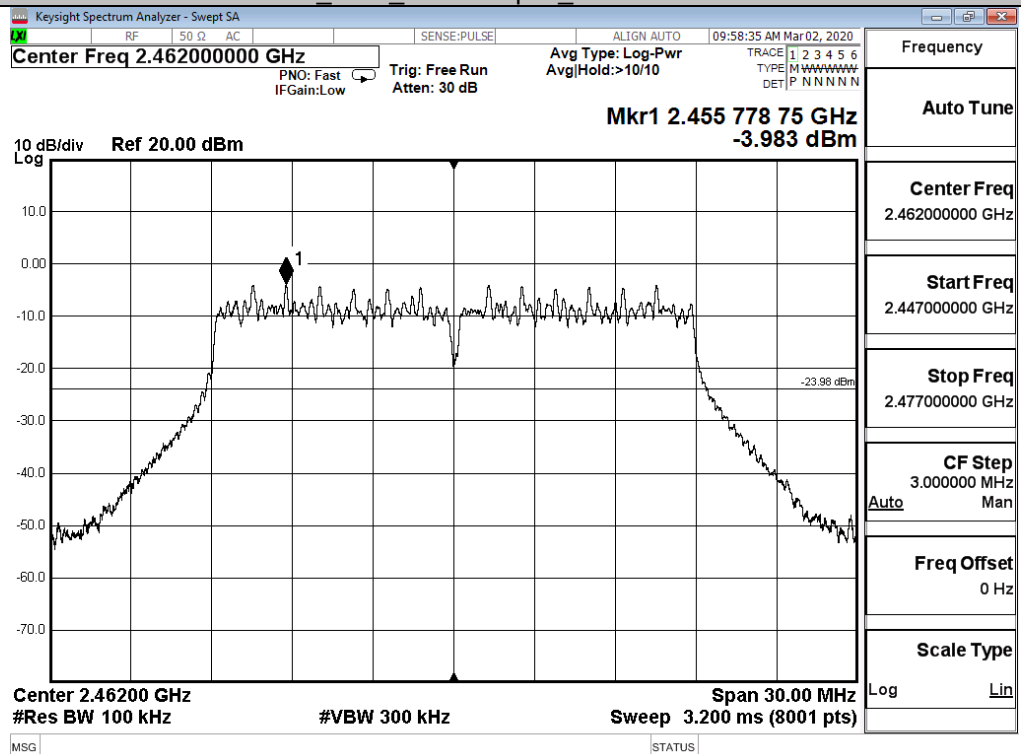
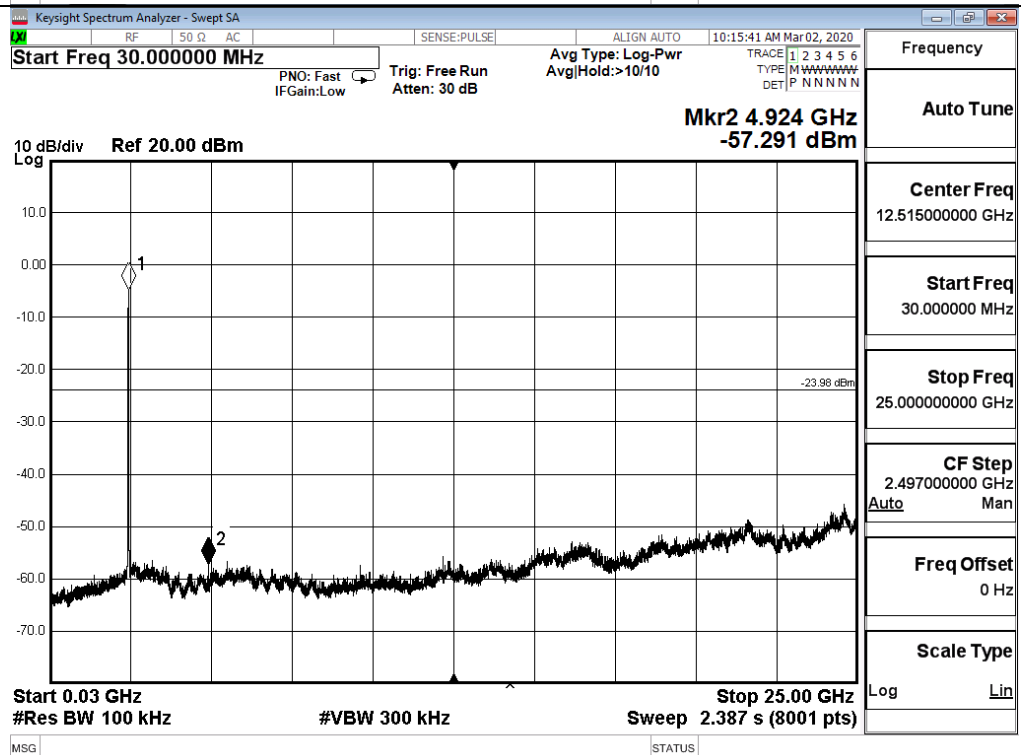
11N20SISO_LCH_Test Graphs_Ant1

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

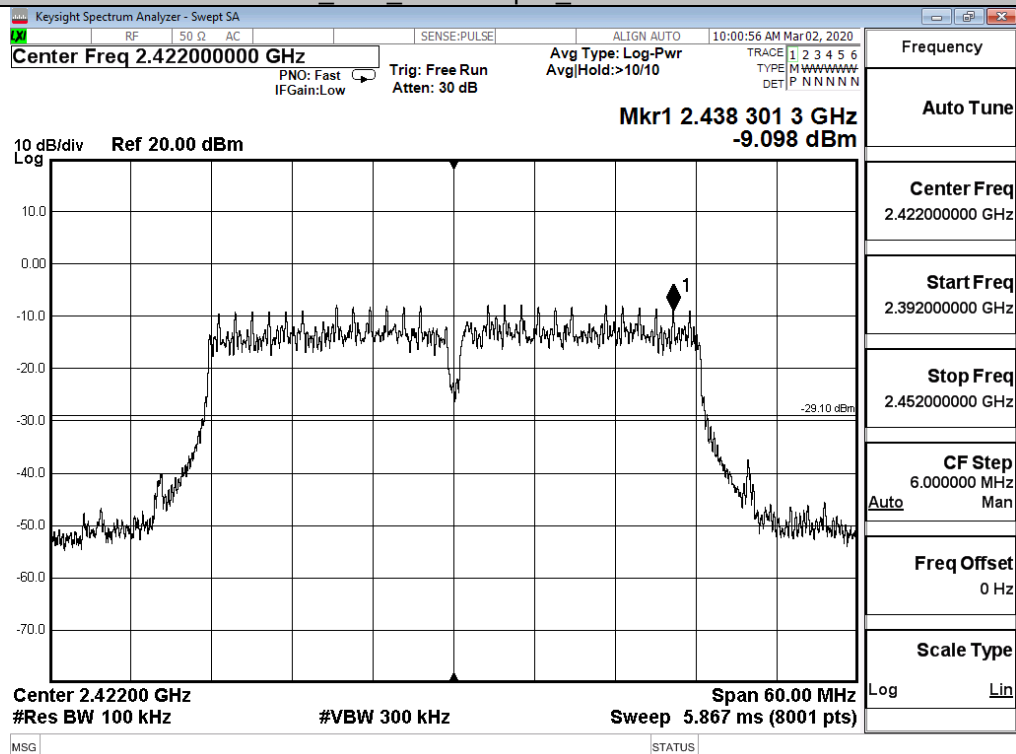
11N20SISO_MCH_Test Graphs_Ant1



11N20SISO_HCH_Test Graphs_Ant1

Pref/11N20
SISO/HCHPuW/11N20
SISO/HCH

11N40SISO_LCH_Test Graphs_Ant1

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