

Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: 3D Printer

Trade Mark: 
Test Model: Adventurer 3 Lite

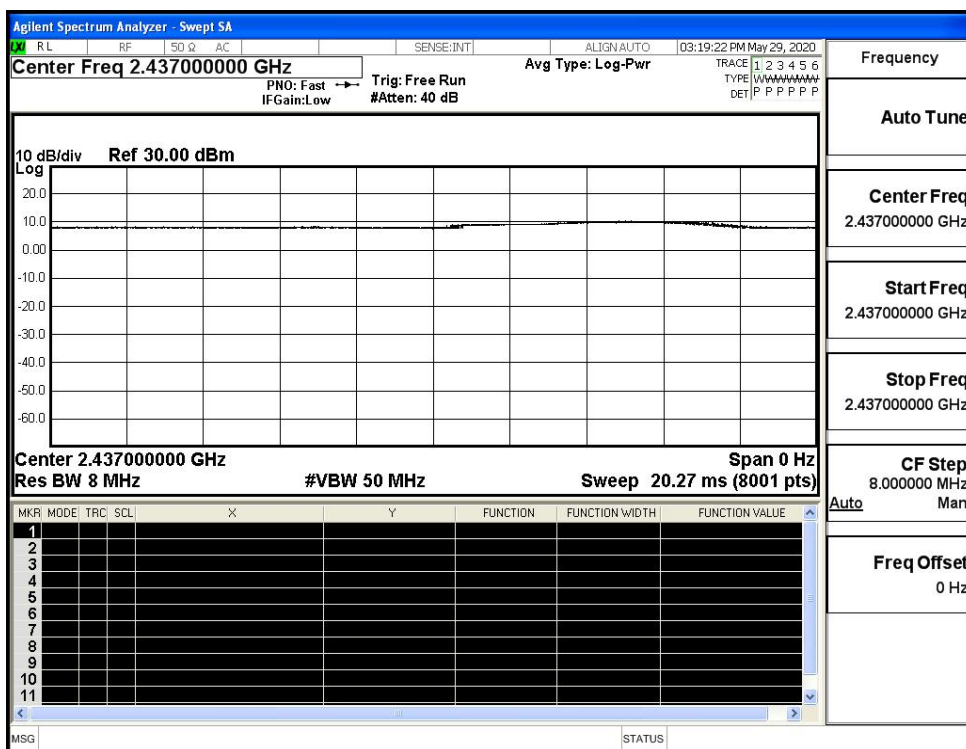
Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

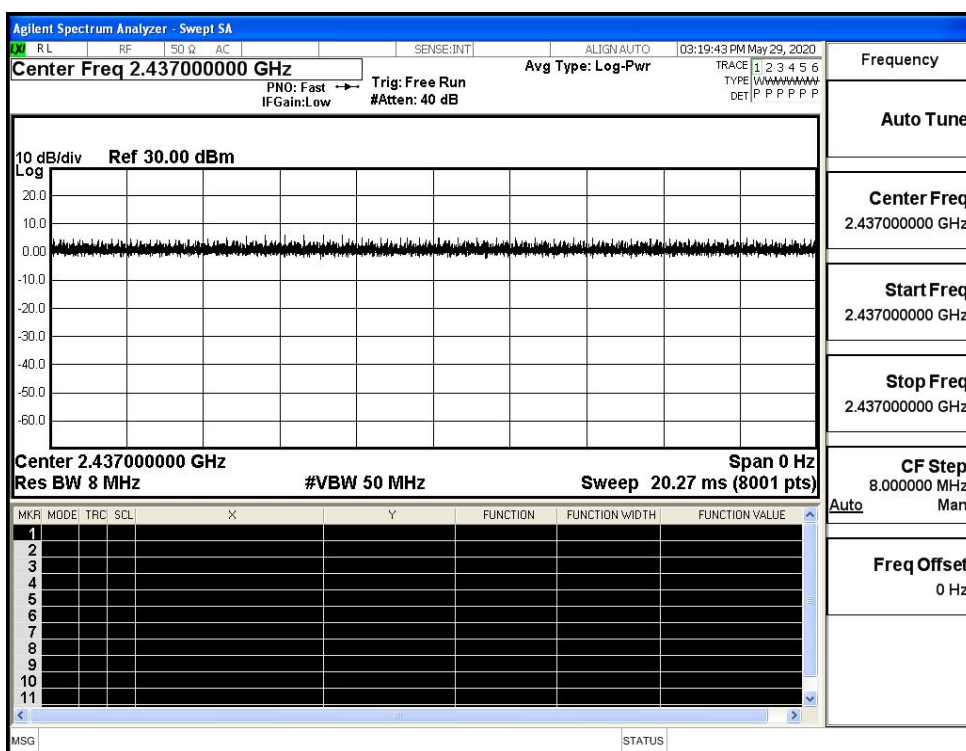
A.1 Duty Cycle

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

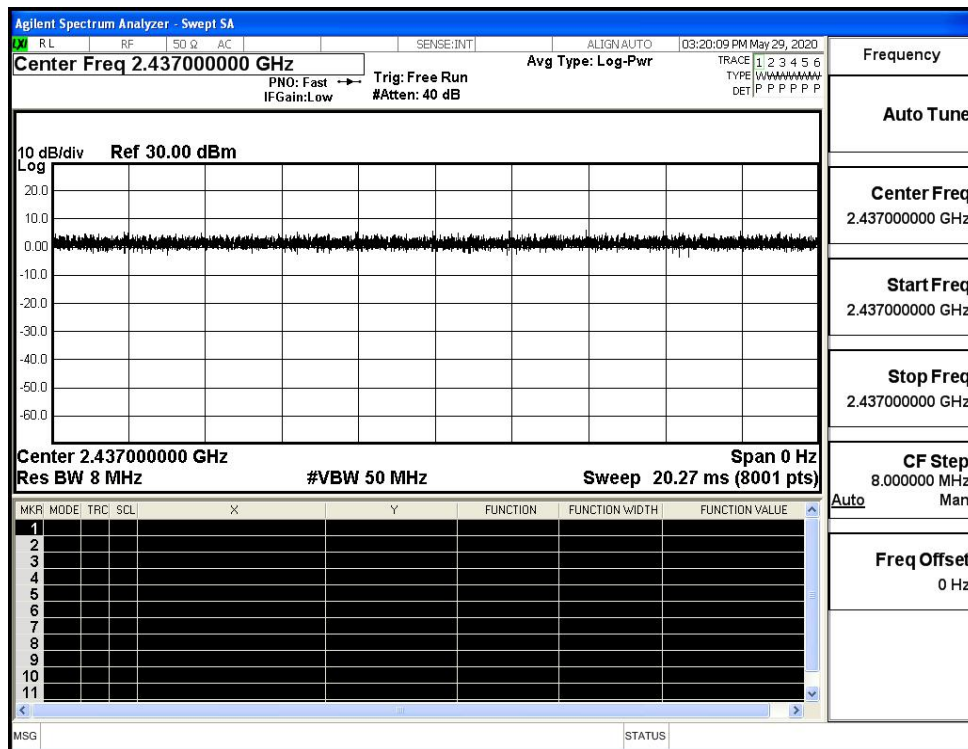
Duty Cycle_11B_2437_Ant1



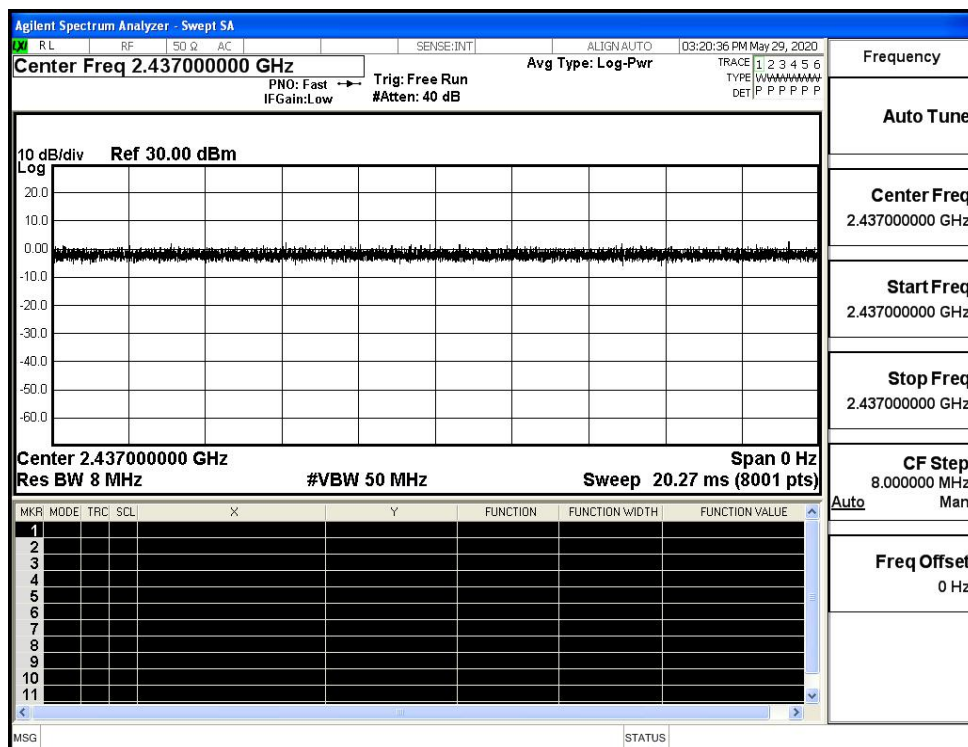
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1

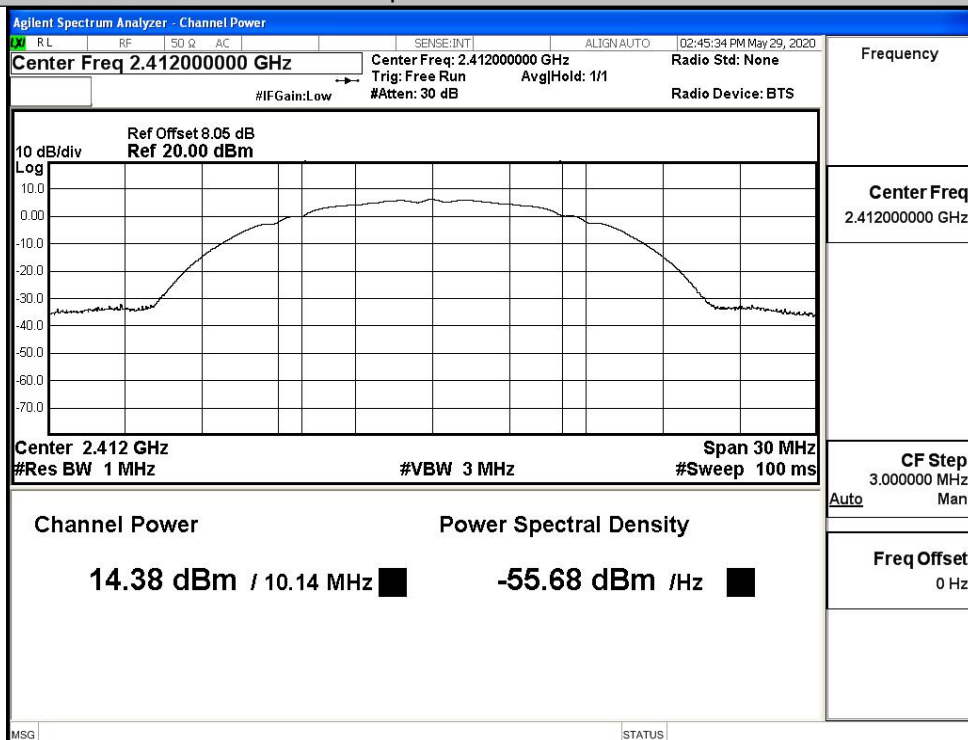


A.2 Maximum Conducted Output Power

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	14.38	30	PASS
	MCH	14.47	30	PASS
	HCH	14.06	30	PASS
11G	LCH	13.44	30	PASS
	MCH	14.12	30	PASS
	HCH	14.21	30	PASS
11N20SISO	LCH	13.69	30	PASS
	MCH	13.83	30	PASS
	HCH	13.46	30	PASS
11N40SISO	LCH	13.32	30	PASS
	MCH	13.00	30	PASS
	HCH	12.69	30	PASS

Test Graphs

11B/LCH



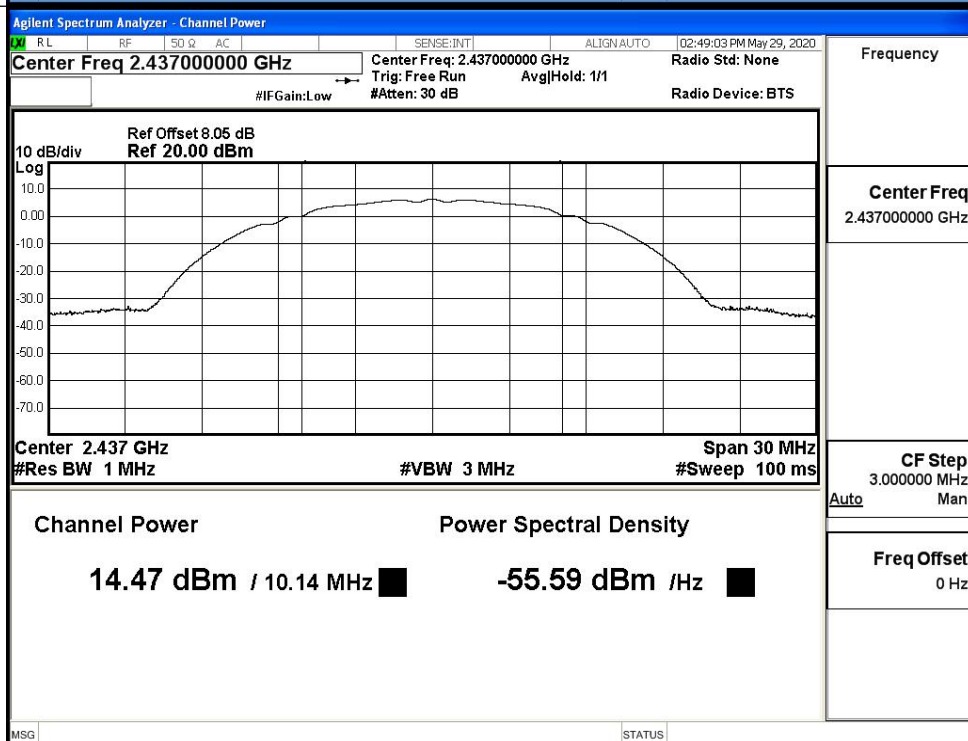
Frequency

Center Freq
2.41200000 GHz

CF Step
3.000000 MHz
Auto Man

Freq Offset
0 Hz

11B/MCH



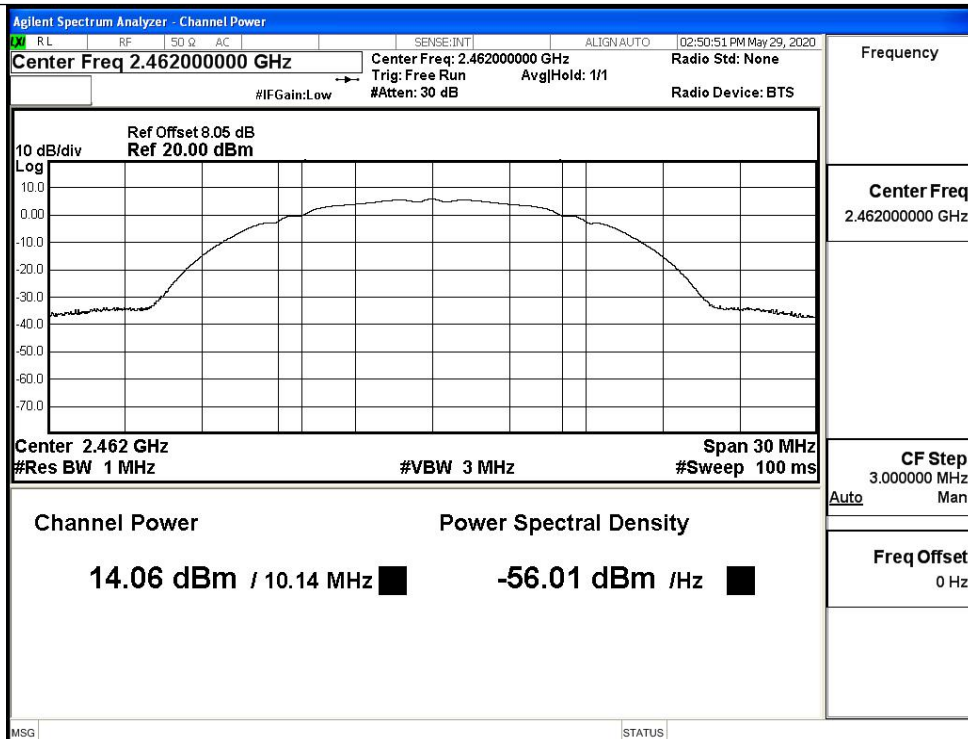
Frequency

Center Freq
2.437000000 GHz

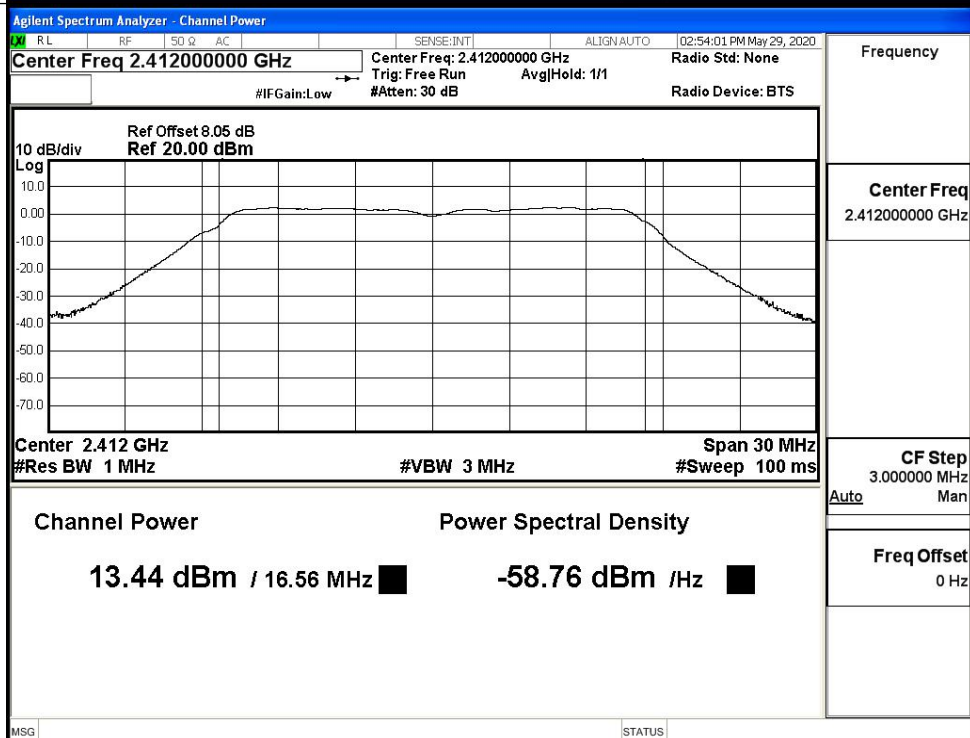
CF Step
3.000000 MHz
Auto Man

Freq Offset
0 Hz

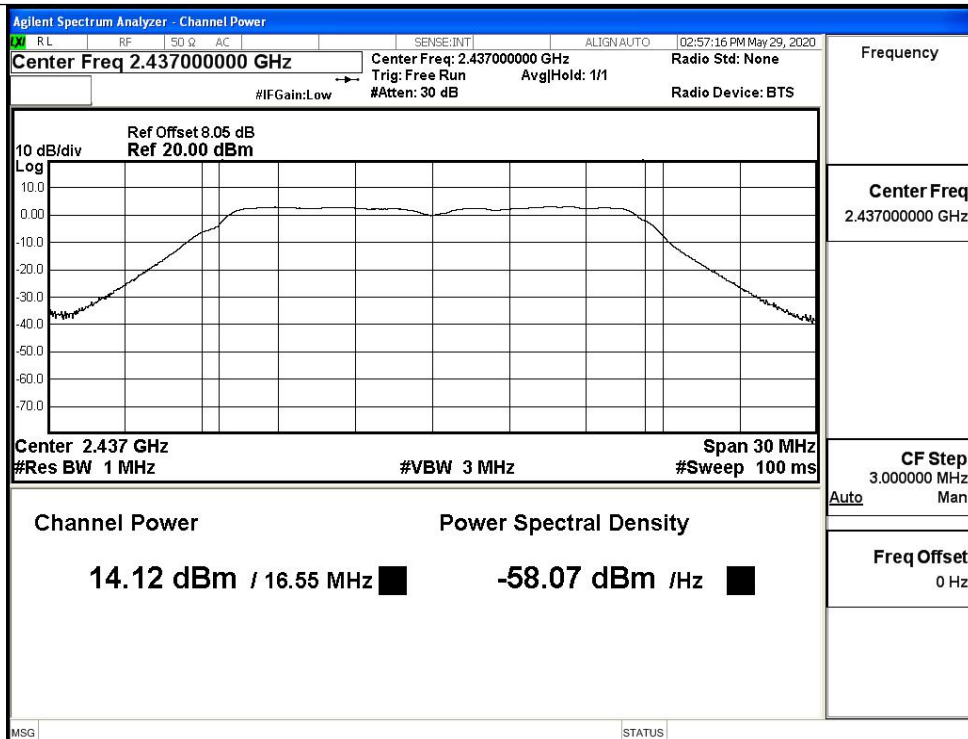
11B/HCH



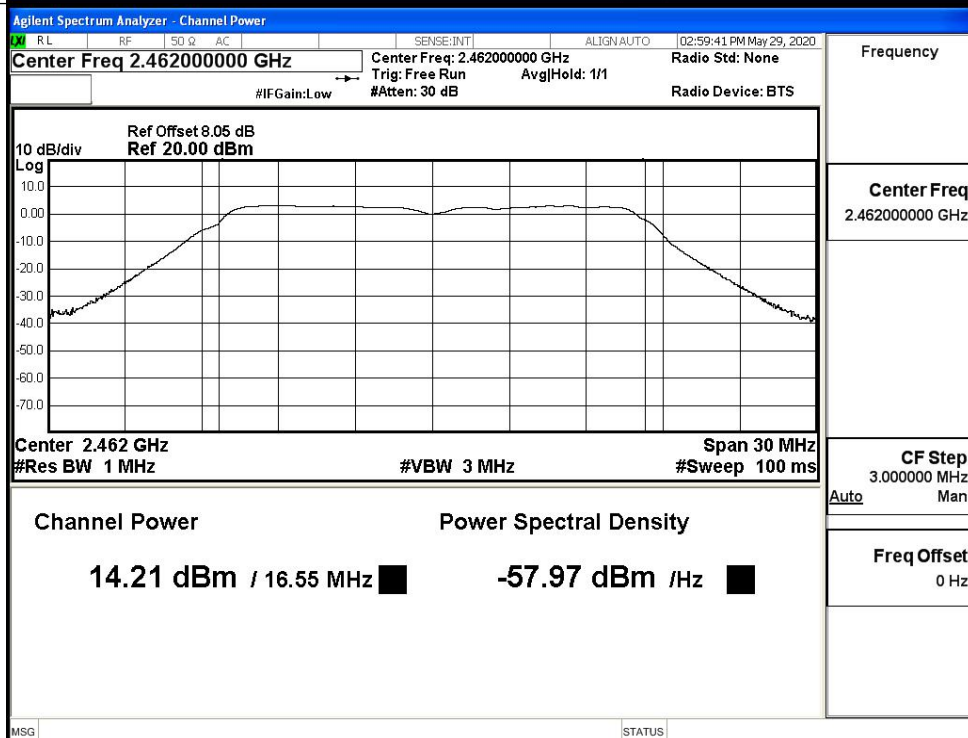
11G/LCH



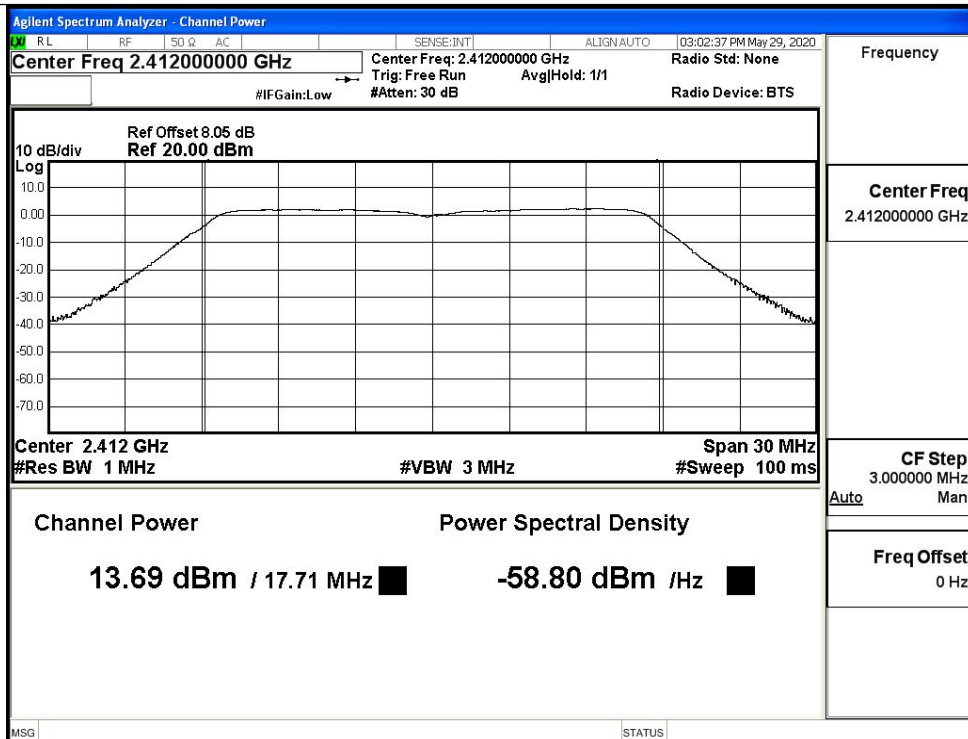
11G/MCH



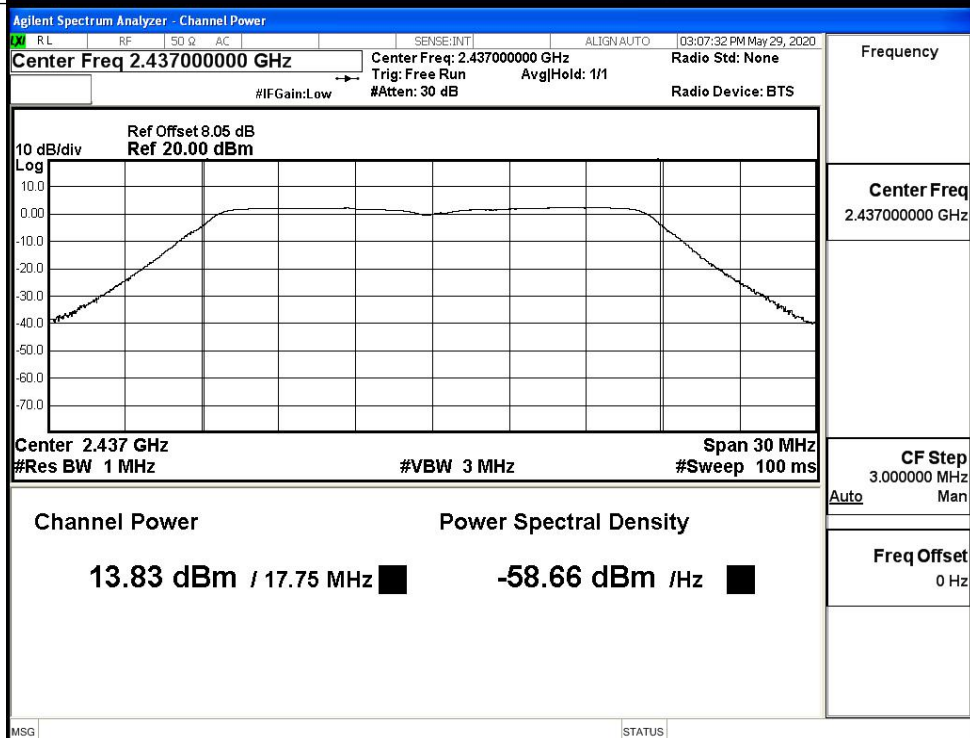
11G/HCH

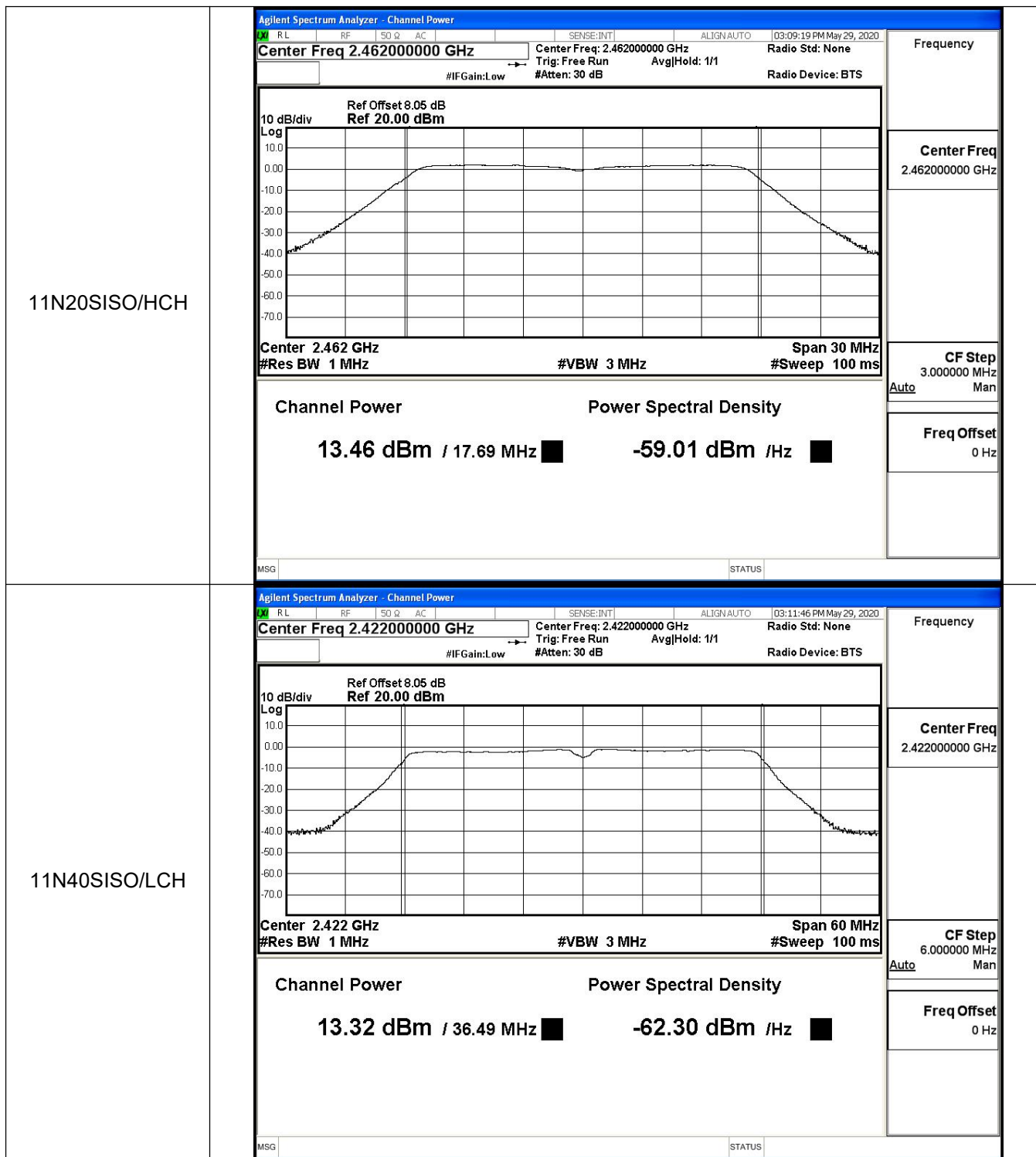


11N20SISO/LCH

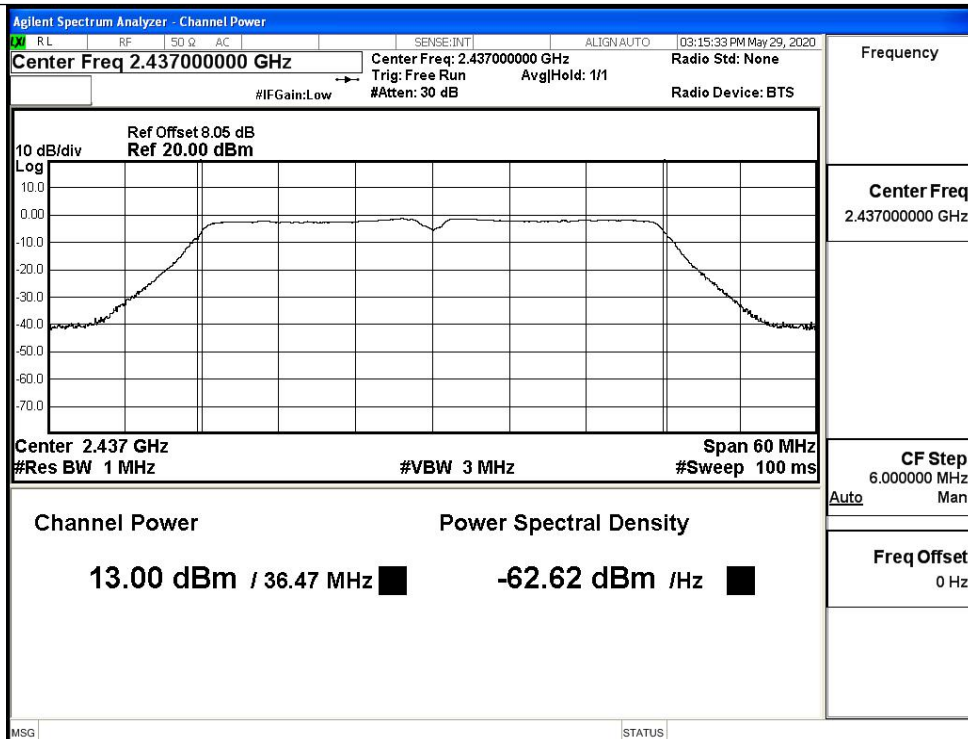


11N20SISO/MCH

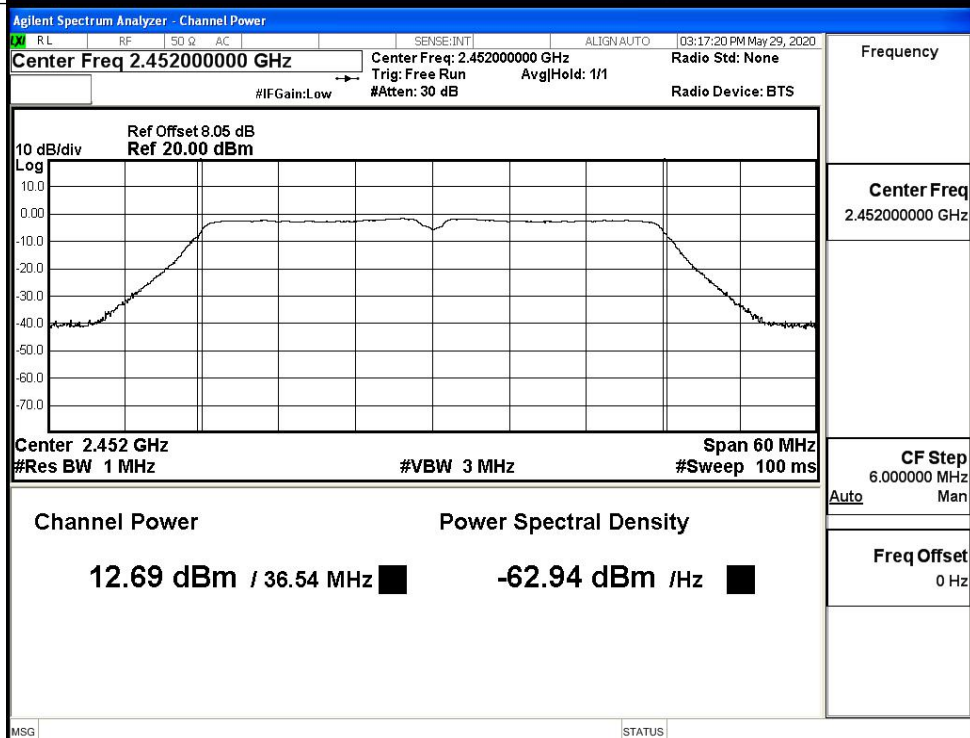




11N40SISO/MCH



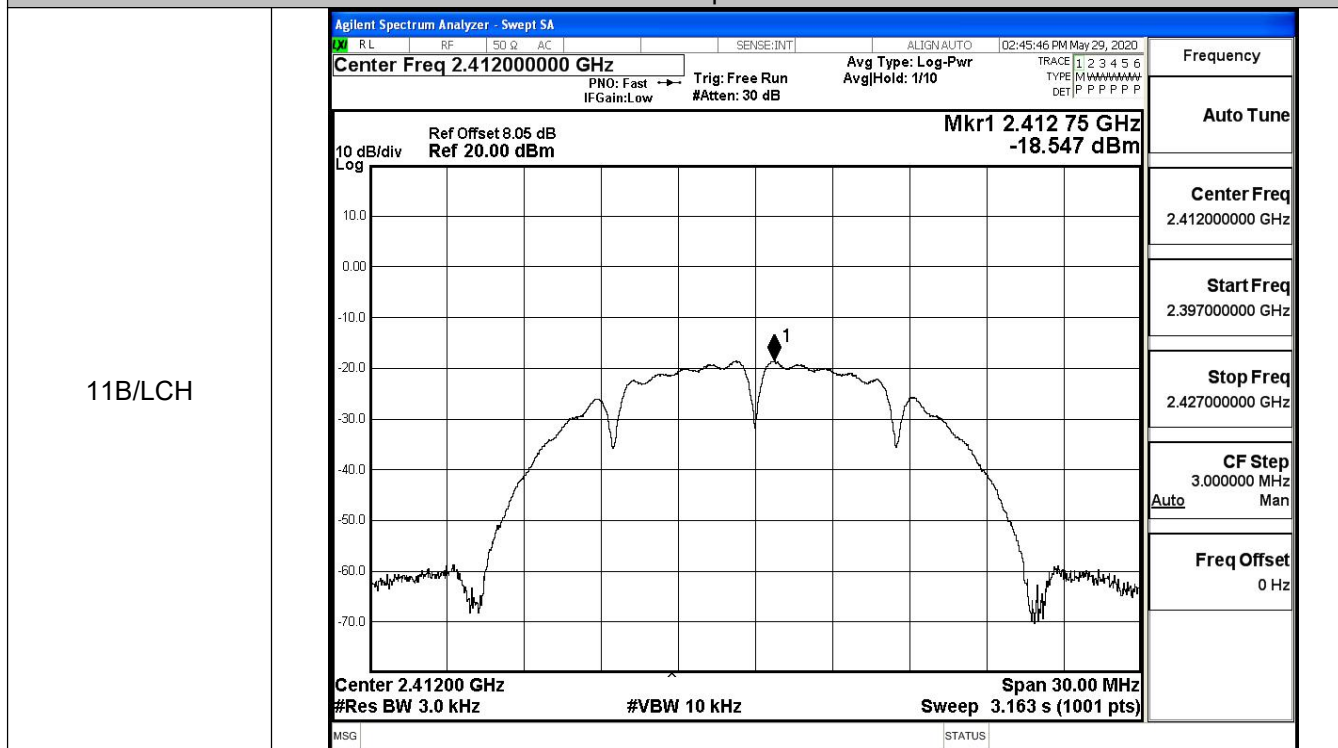
11N40SISO/HCH



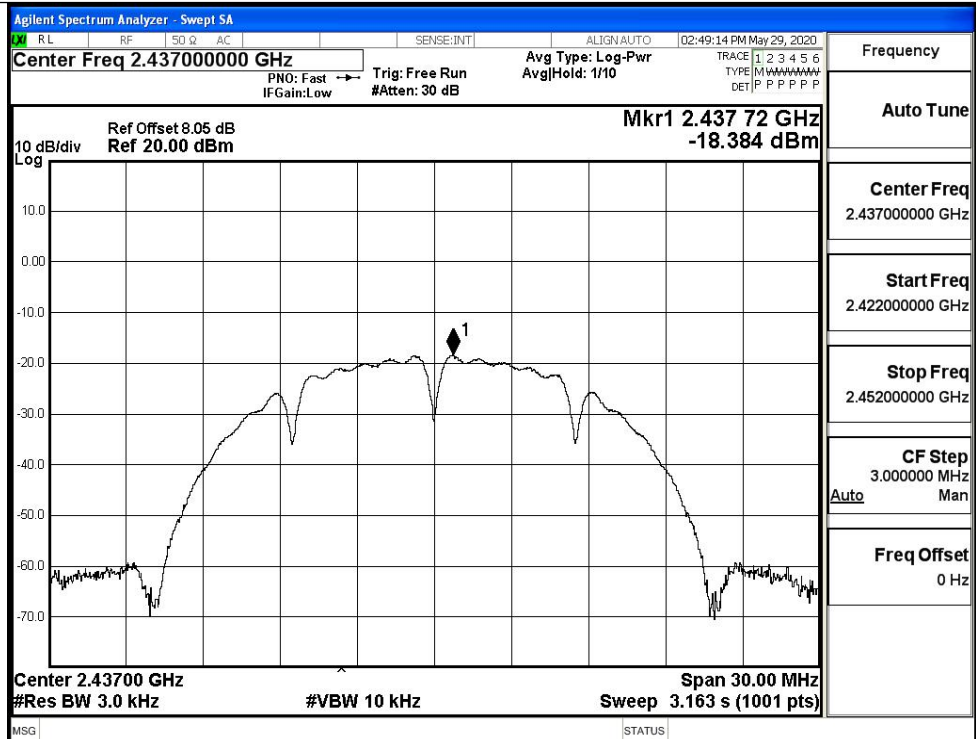
A.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-18.547	8	PASS
	MCH	-18.384	8	PASS
	HCH	-18.732	8	PASS
11G	LCH	-22.520	8	PASS
	MCH	-22.173	8	PASS
	HCH	-22.240	8	PASS
11N20SISO	LCH	-22.401	8	PASS
	MCH	-22.562	8	PASS
	HCH	-22.682	8	PASS
11N40SISO	LCH	-25.086	8	PASS
	MCH	-23.268	8	PASS
	HCH	-25.115	8	PASS

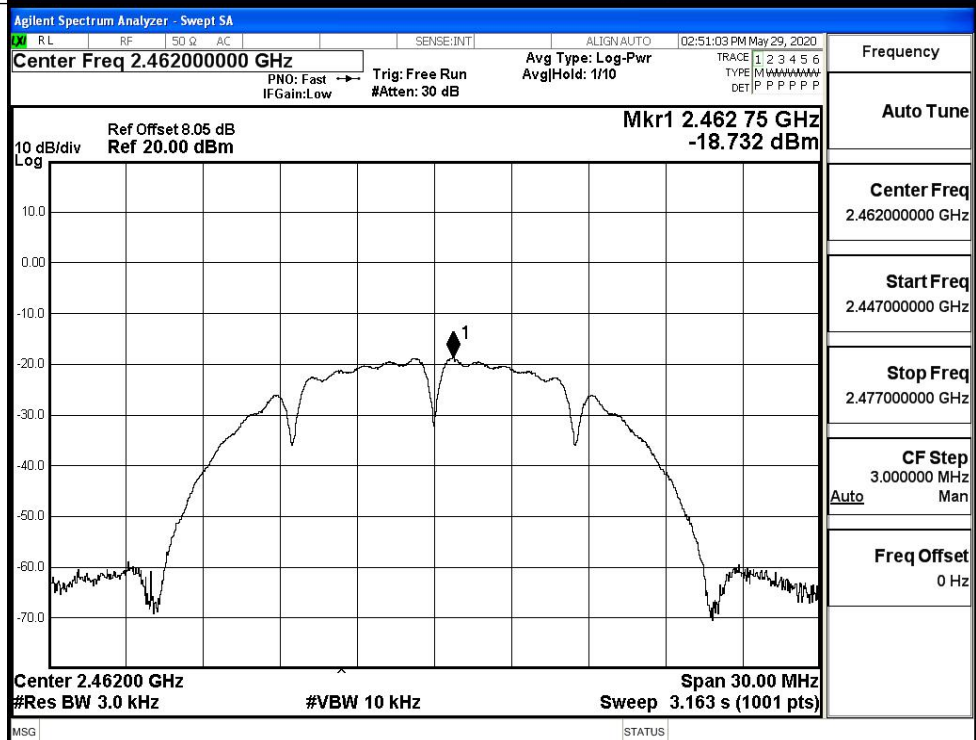
Test Graphs



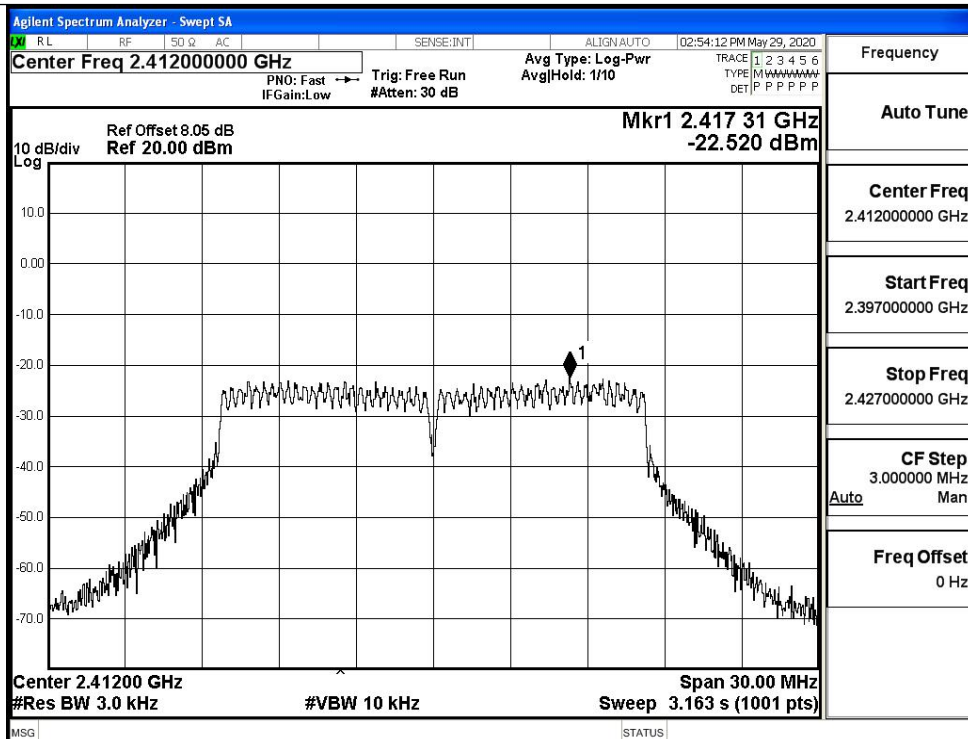
11B/MCH



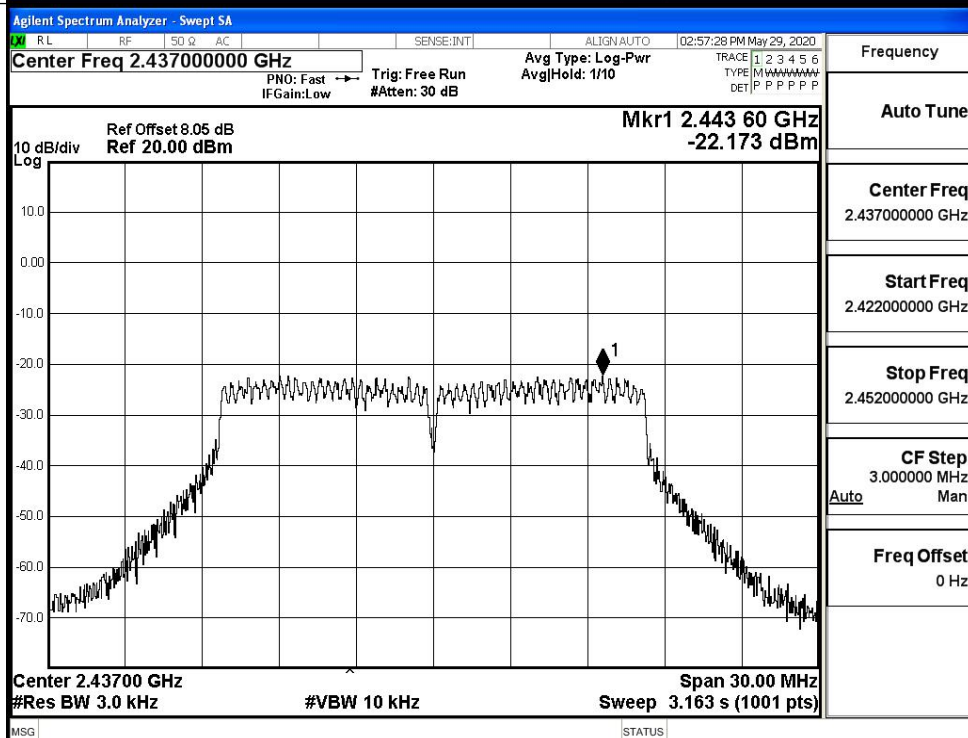
11B/HCH



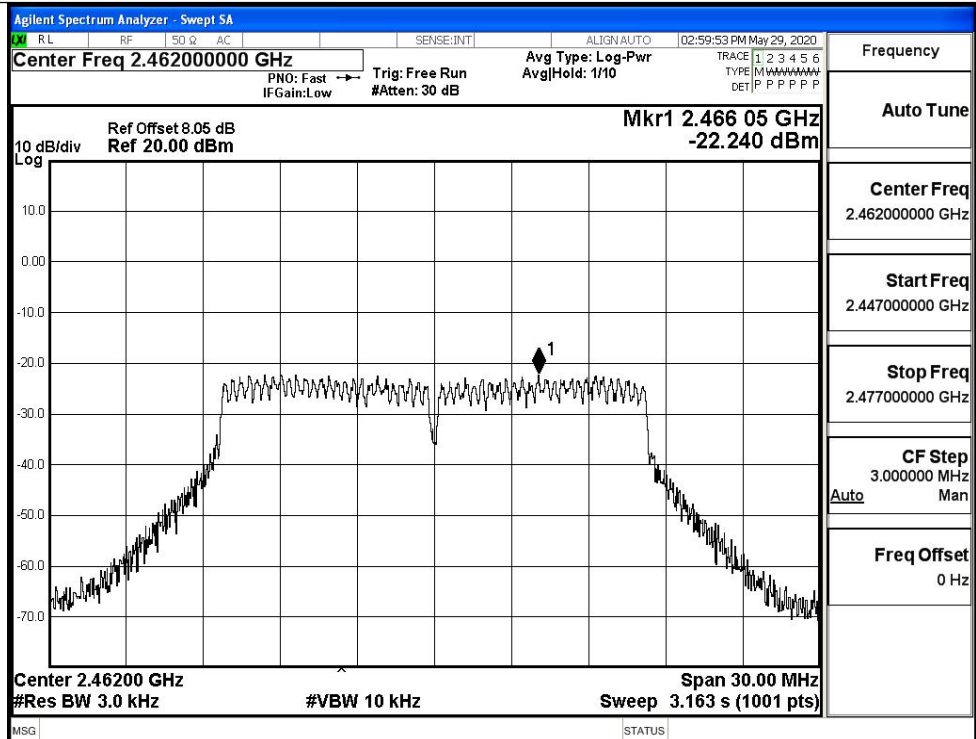
11G/LCH



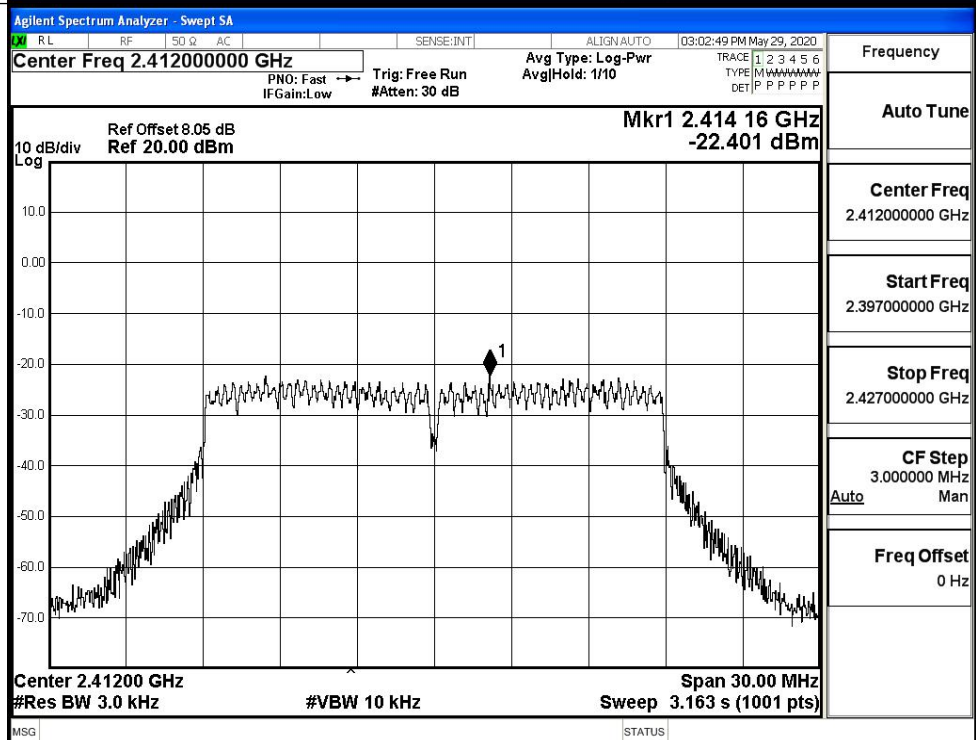
11G/MCH



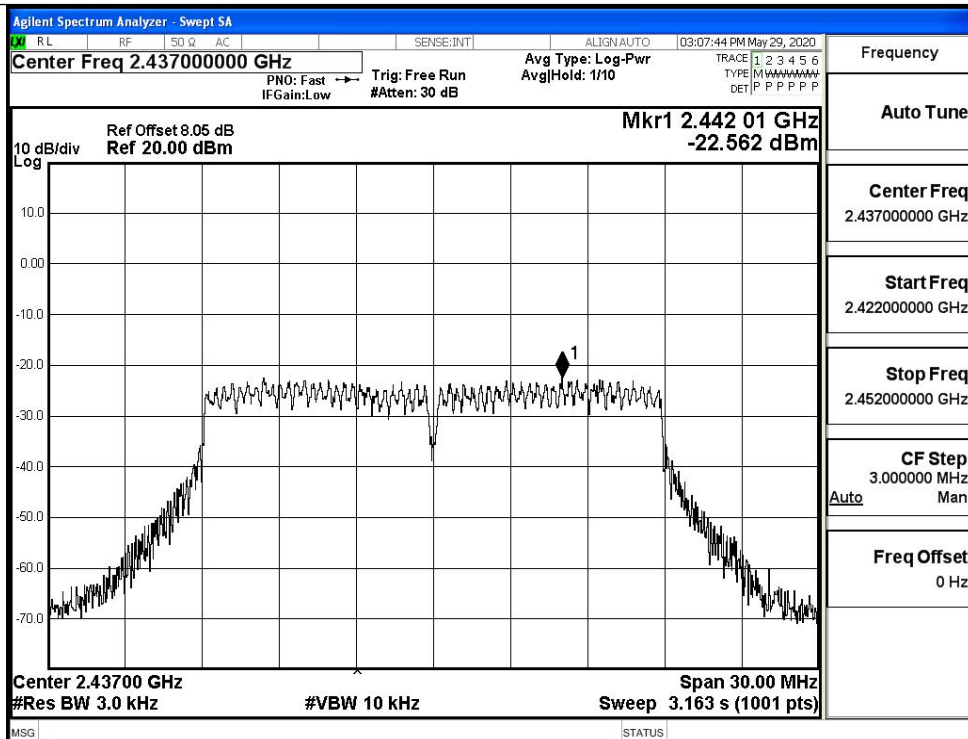
11G/HCH



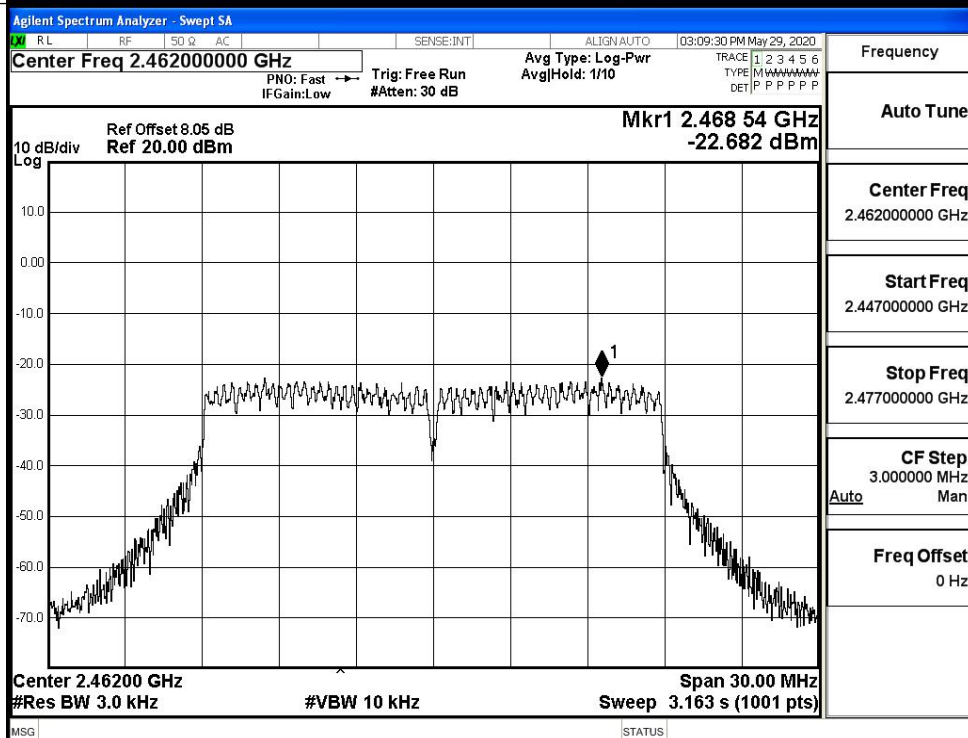
11N20SISO/LCH



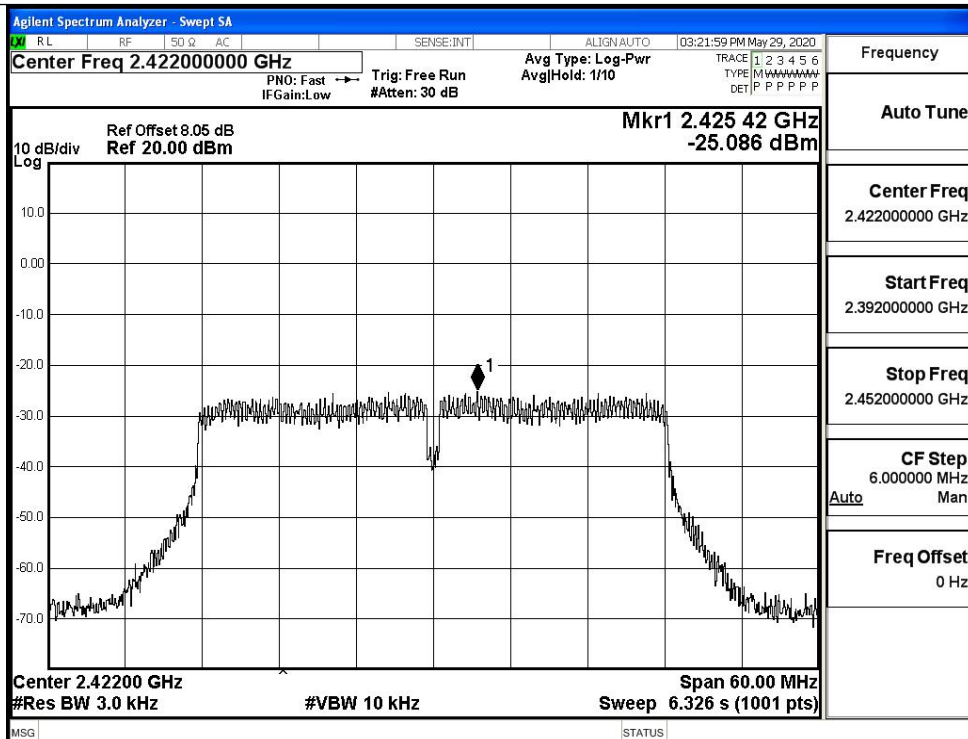
11N20SISO/MCH



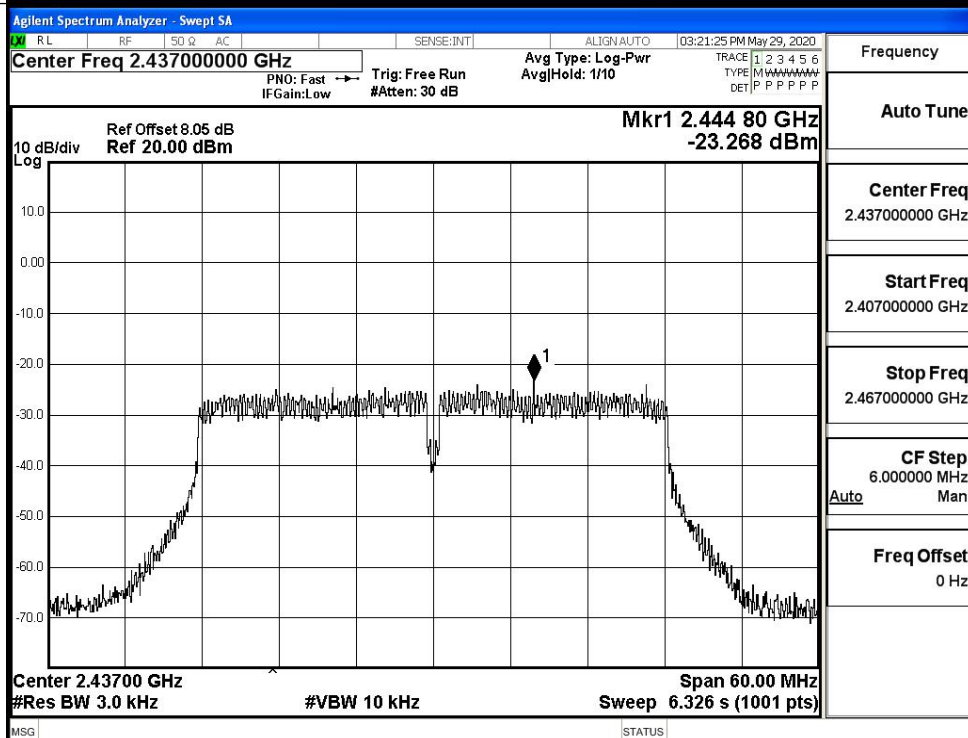
11N20SISO/HCH



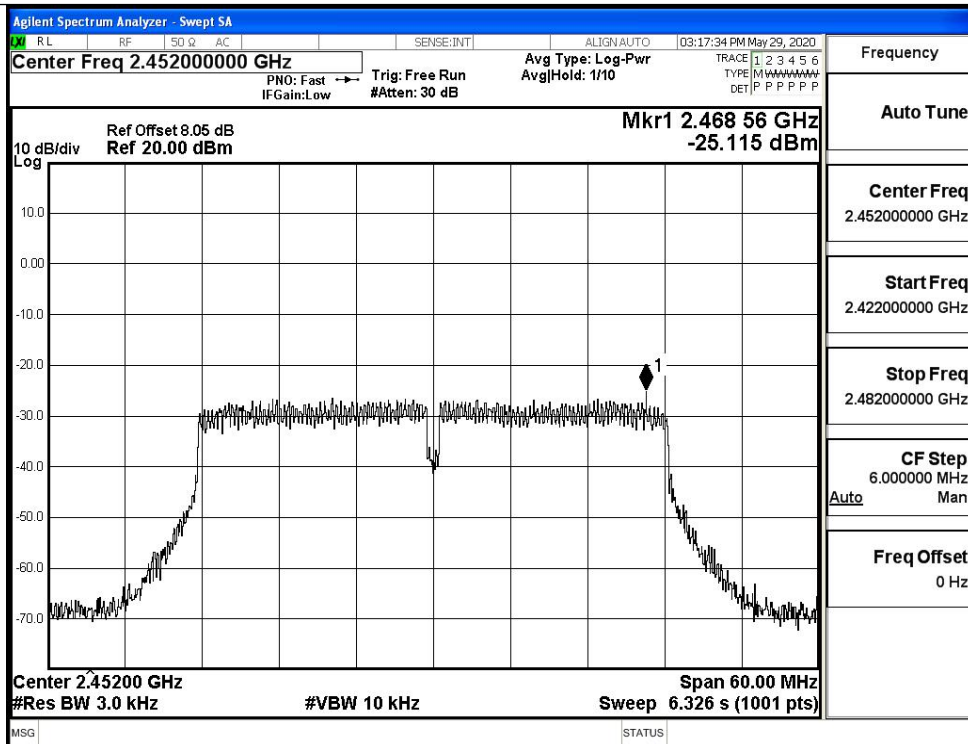
11N40SISO/LCH



11N40SISO/MCH

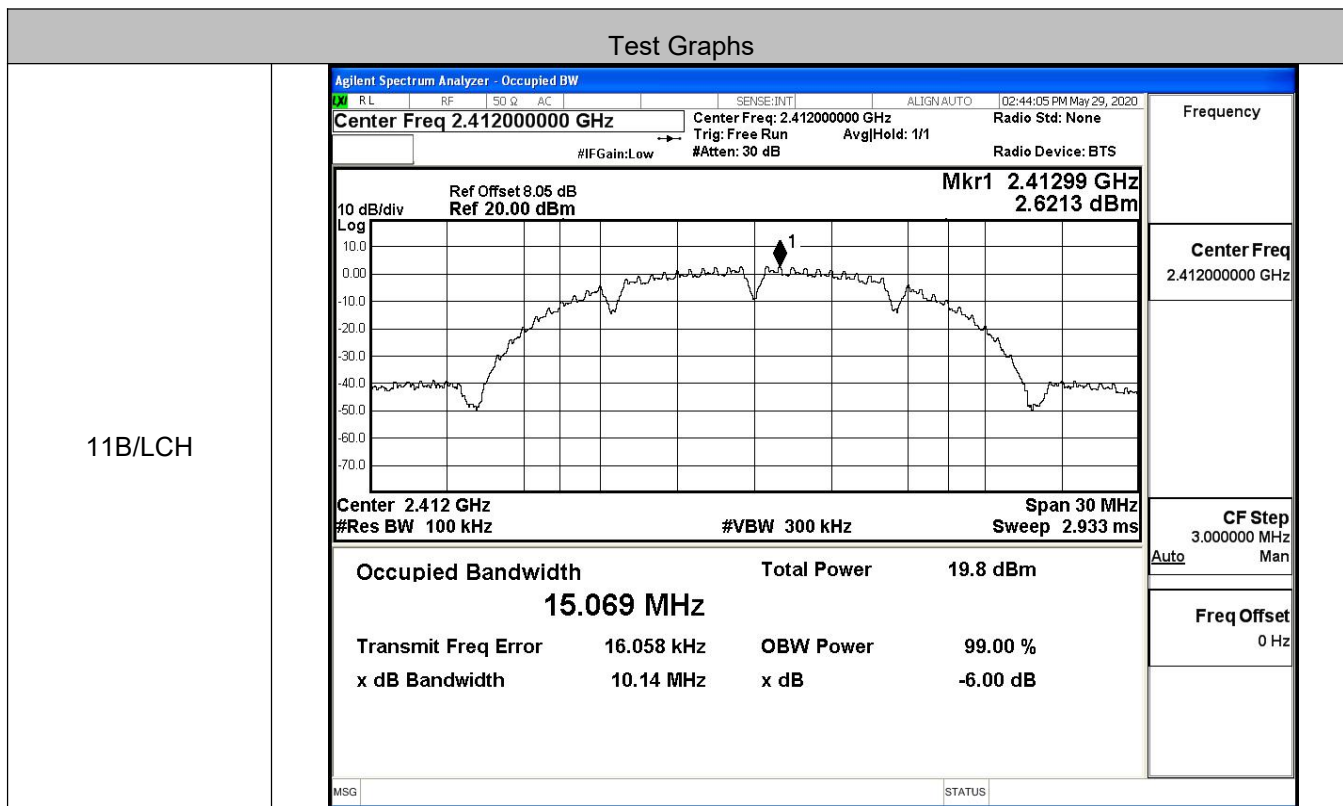


11N40SISO/HCH

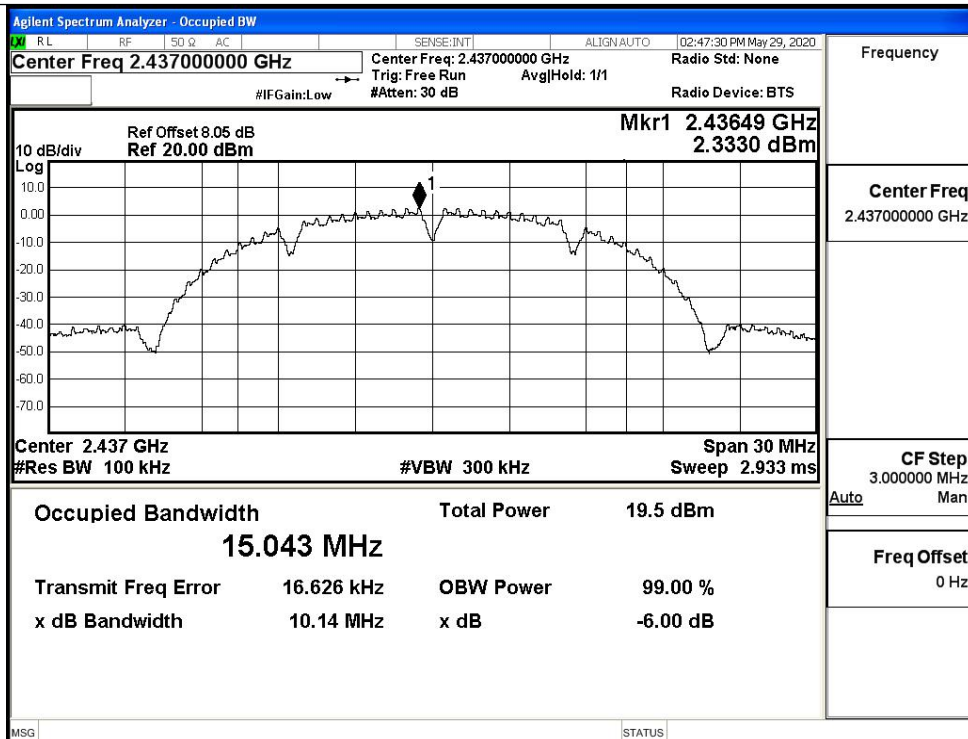


A.4 6dB Bandwidth

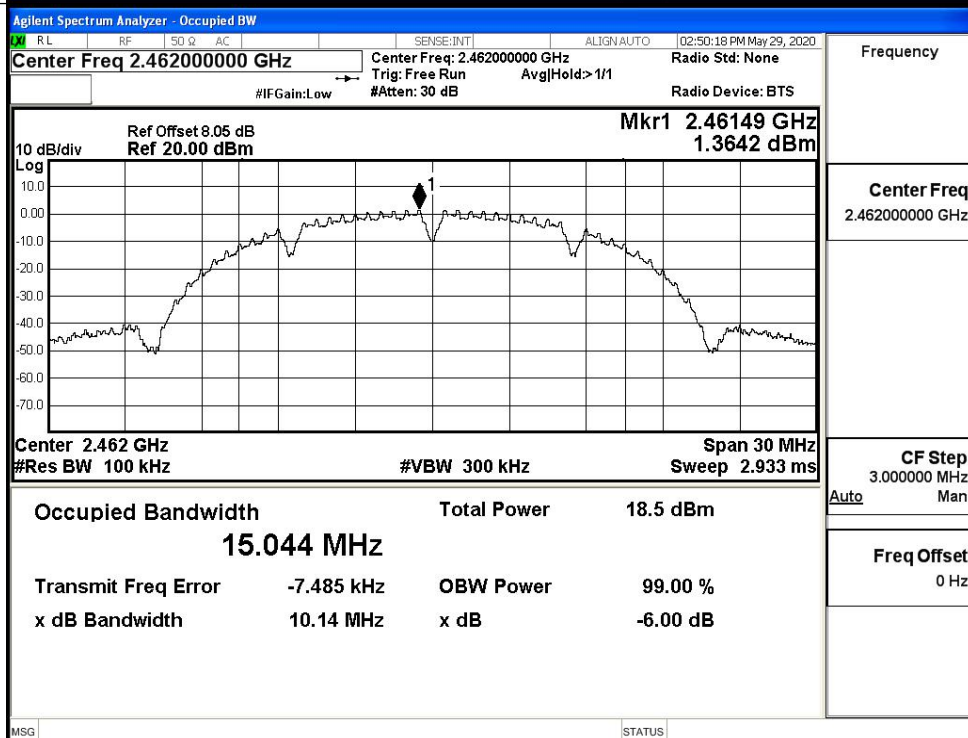
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	10.14	≥ 0.5	PASS
	MCH	10.14	≥ 0.5	PASS
	HCH	10.14	≥ 0.5	PASS
11G	LCH	16.56	≥ 0.5	PASS
	MCH	16.55	≥ 0.5	PASS
	HCH	16.55	≥ 0.5	PASS
11N20SISO	LCH	17.71	≥ 0.5	PASS
	MCH	17.75	≥ 0.5	PASS
	HCH	17.69	≥ 0.5	PASS
11N40SISO	LCH	36.49	≥ 0.5	PASS
	MCH	36.47	≥ 0.5	PASS
	HCH	36.54	≥ 0.5	PASS



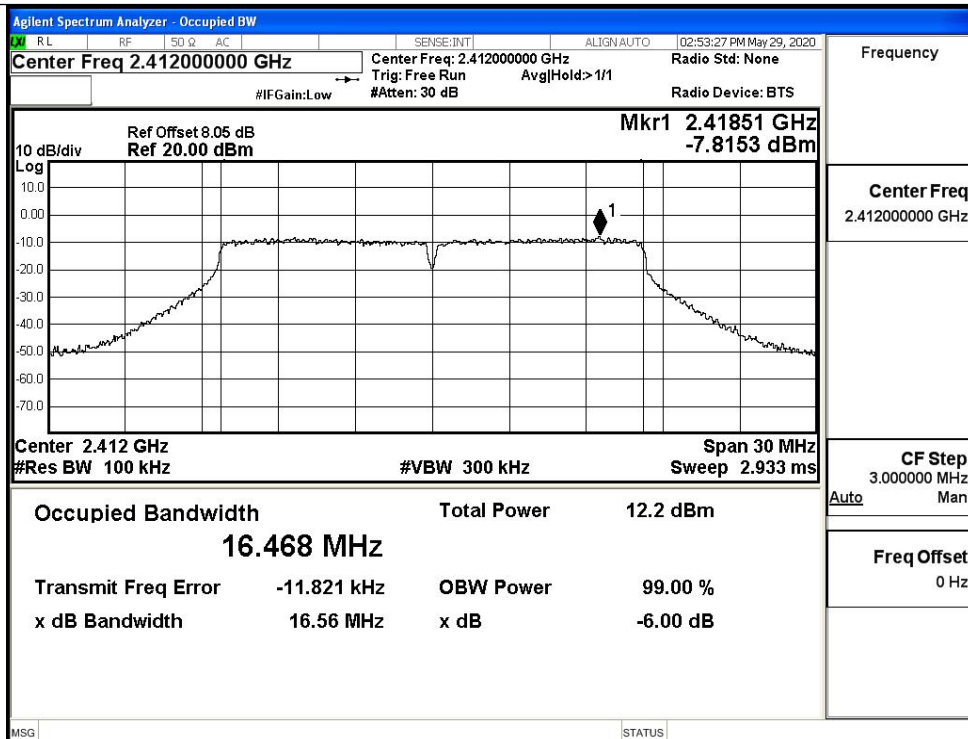
11B/MCH



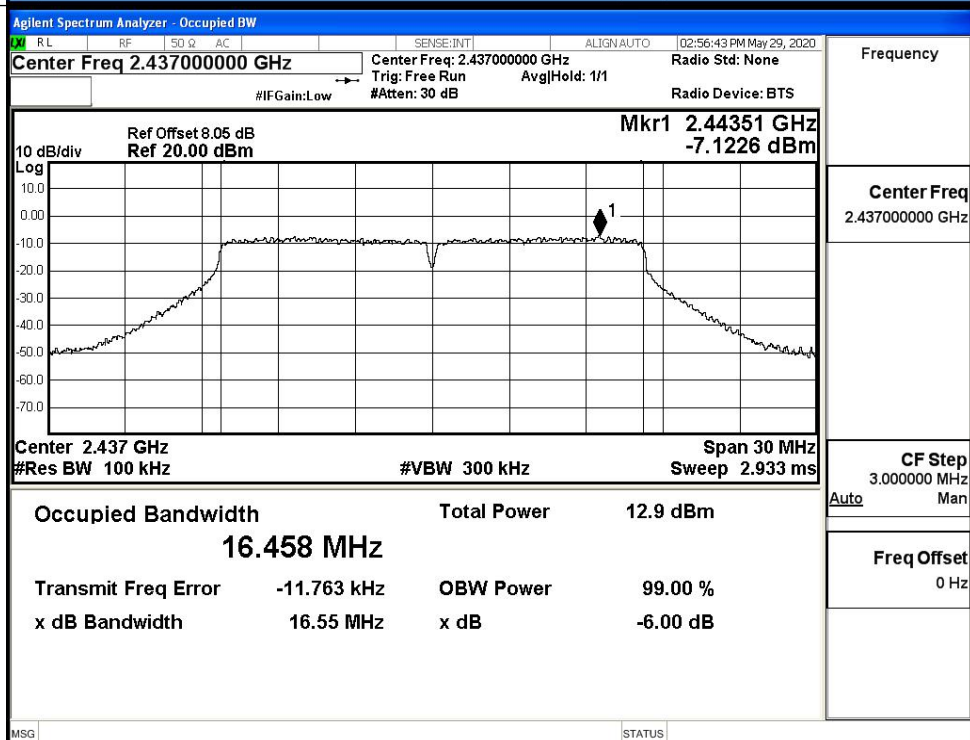
11B/HCH



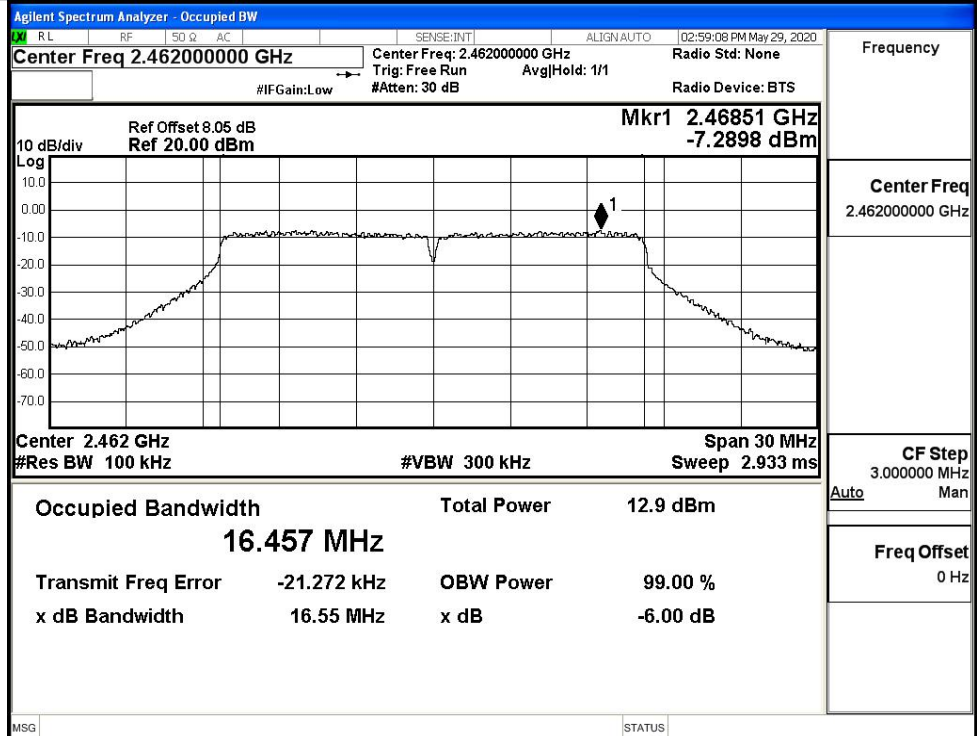
11G/LCH



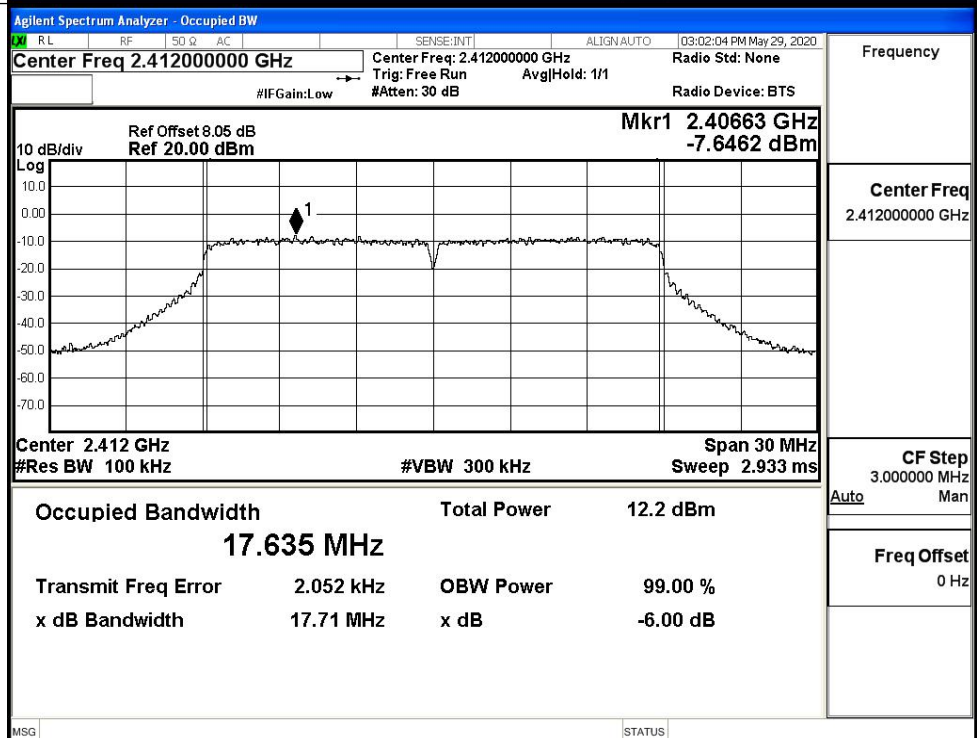
11G/MCH



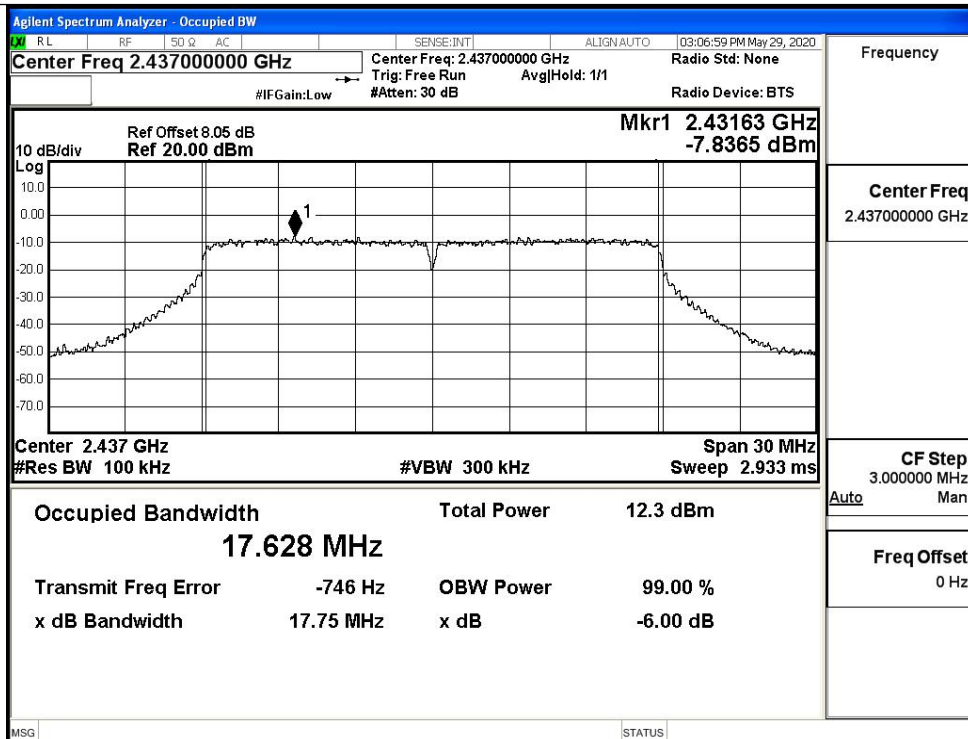
11G/HCH



11N20SISO/LCH



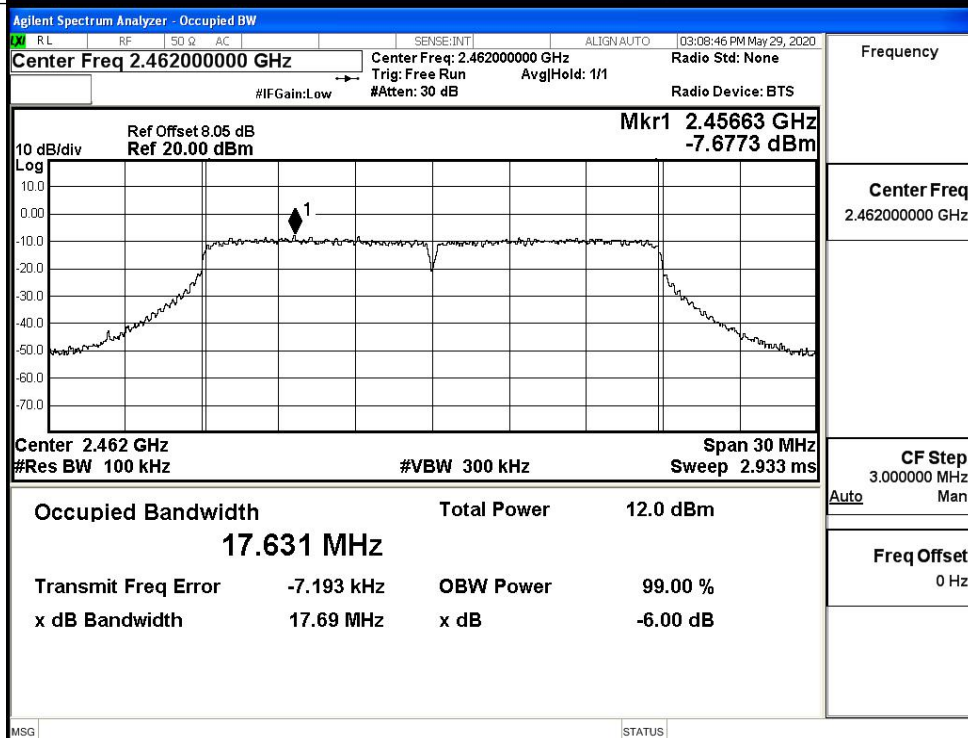
11N20SISO/MCH



Frequency

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

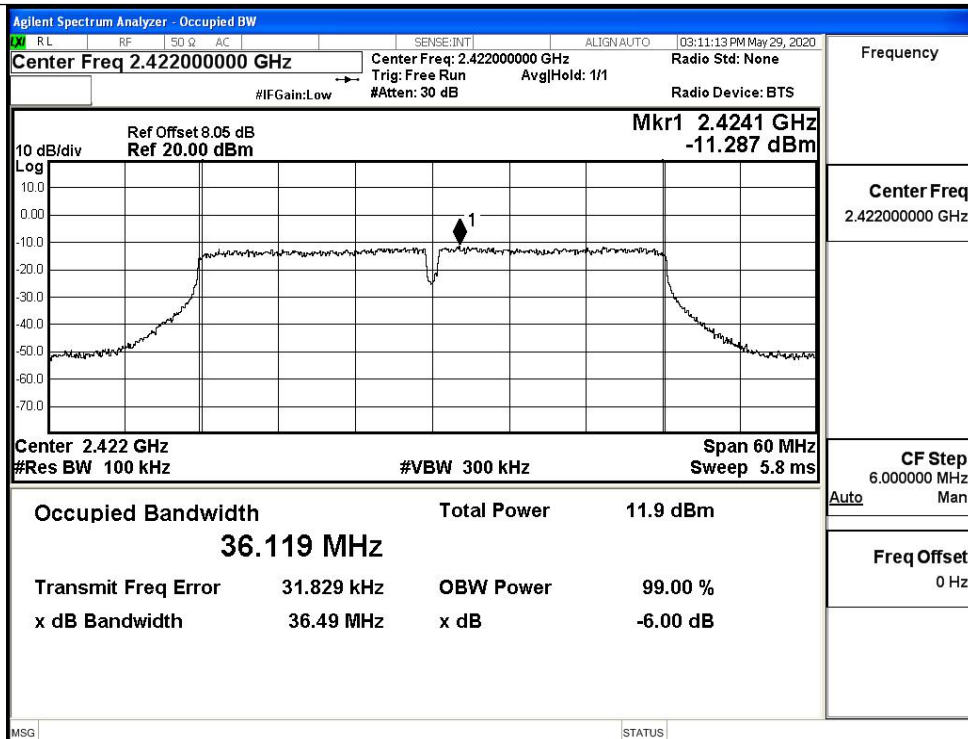
11N20SISO/HCH



Frequency

Center Freq
2.46200000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

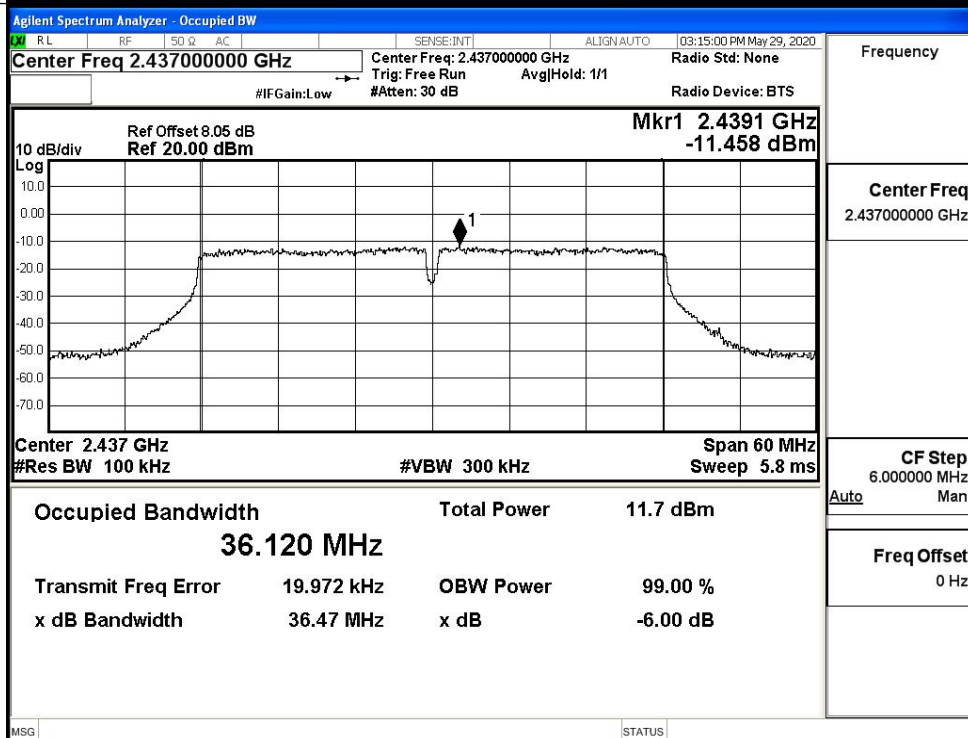
11N40SISO/LCH



Frequency

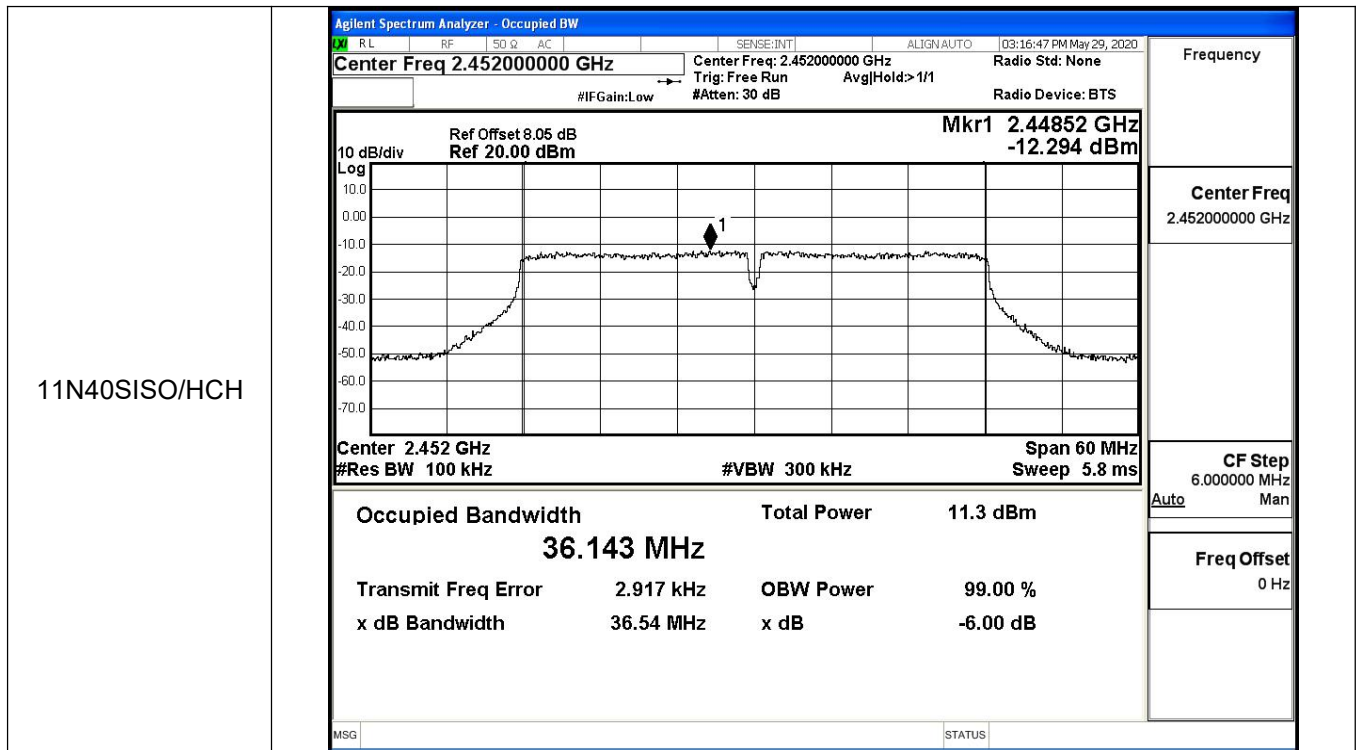
Center Freq
2.422000000 GHzCF Step
6.000000 MHz
Auto ManFreq Offset
0 Hz

11N40SISO/MCH



Frequency

Center Freq
2.437000000 GHzCF Step
6.000000 MHz
Auto ManFreq Offset
0 Hz

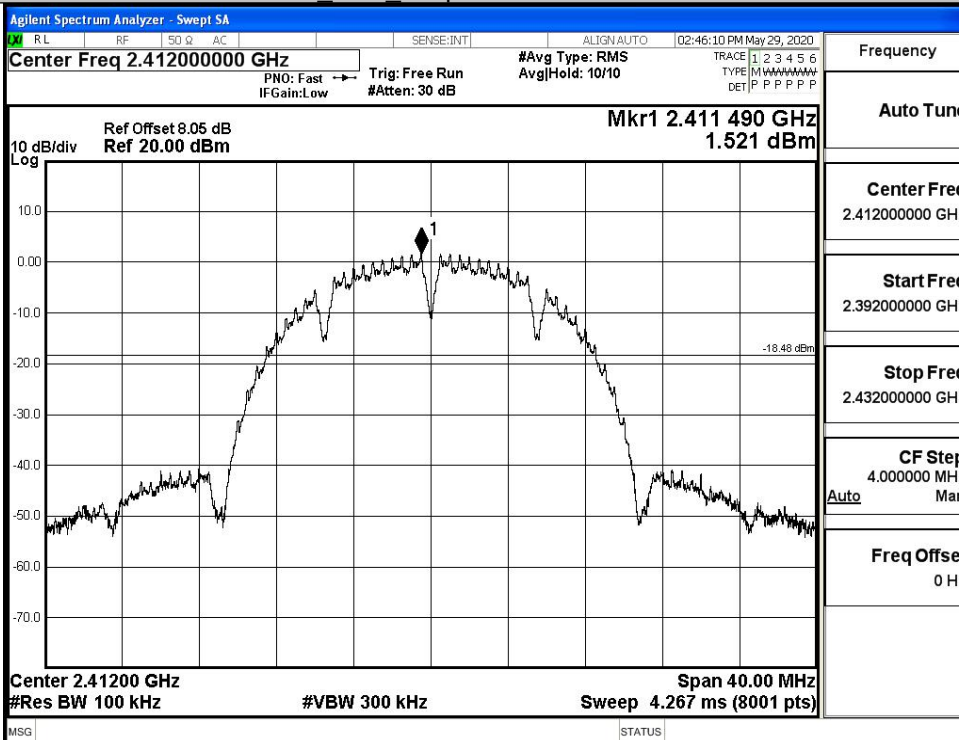


A.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	1.521	-38.324	-18.479	PASS
	MCH	1.587	-37.913	-18.413	PASS
	HCH	1.275	-38.579	-18.725	PASS
11G	LCH	-7.963	-37.116	-27.963	PASS
	MCH	-7.34	-37.768	-27.340	PASS
	HCH	-7.565	-37.970	-27.565	PASS
11N20 SISO	LCH	-7.889	-38.826	-27.889	PASS
	MCH	-8.026	-37.933	-28.026	PASS
	HCH	-8.195	-37.627	-28.195	PASS
11N40 SISO	LCH	-11.294	-38.439	-31.294	PASS
	MCH	-11.798	-37.968	-31.798	PASS
	HCH	-12.597	-37.969	-32.597	PASS

11B LCH Graphs

Pref/11B/LCH



Puw/11B/LCH

