Appendix A
RF Test Data for 2.4G WIFI (Conducted Measurement)
Product Name: Smart WIFI Strip Light Kit
Trade Mark: N/A
Test Model: AC1275-RWF-24LFW-G

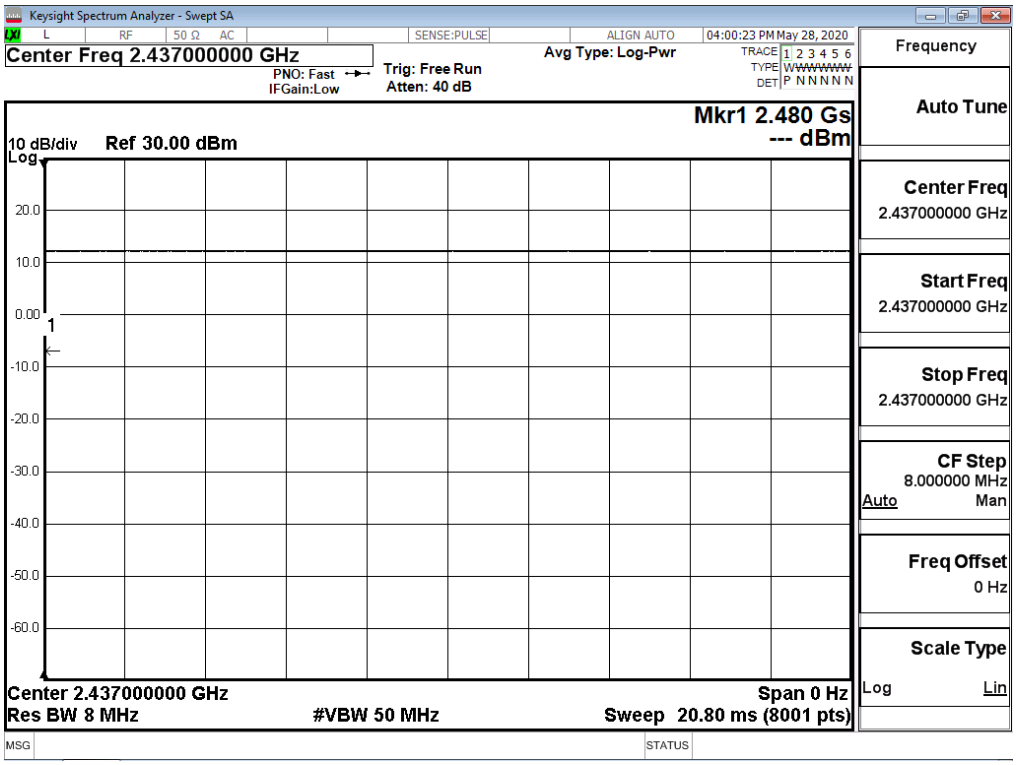
Environmental Conditions

Temperature:	23.7 ° C
Relative Humidity:	53.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan

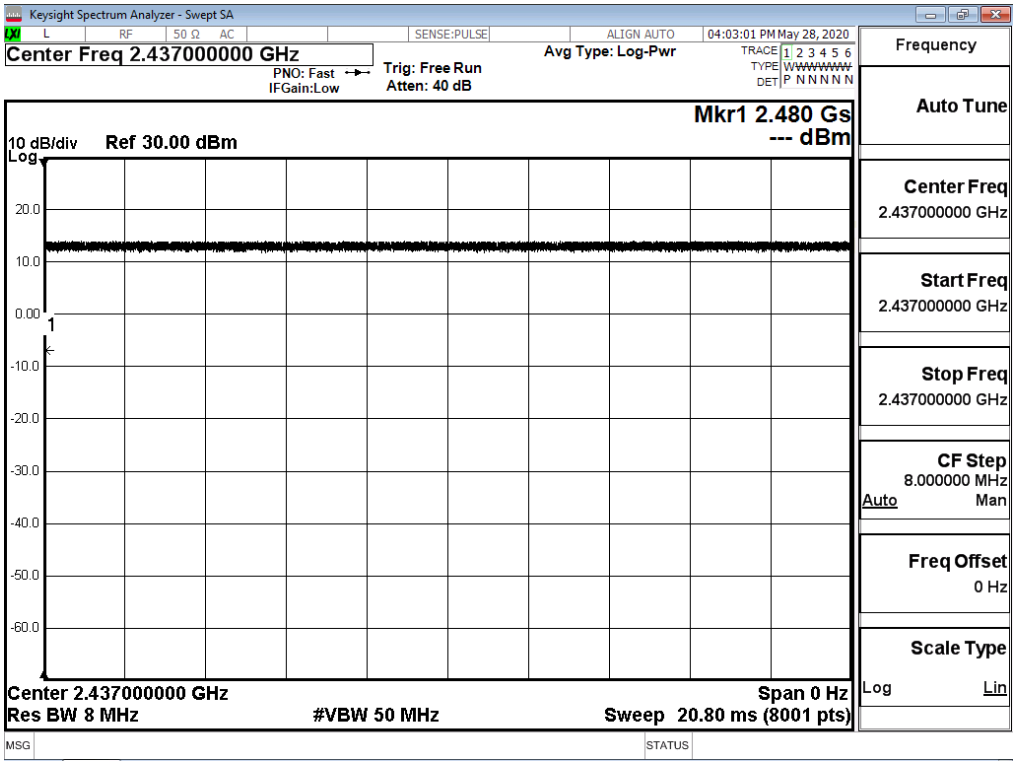
A.1 Duty Cycle

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

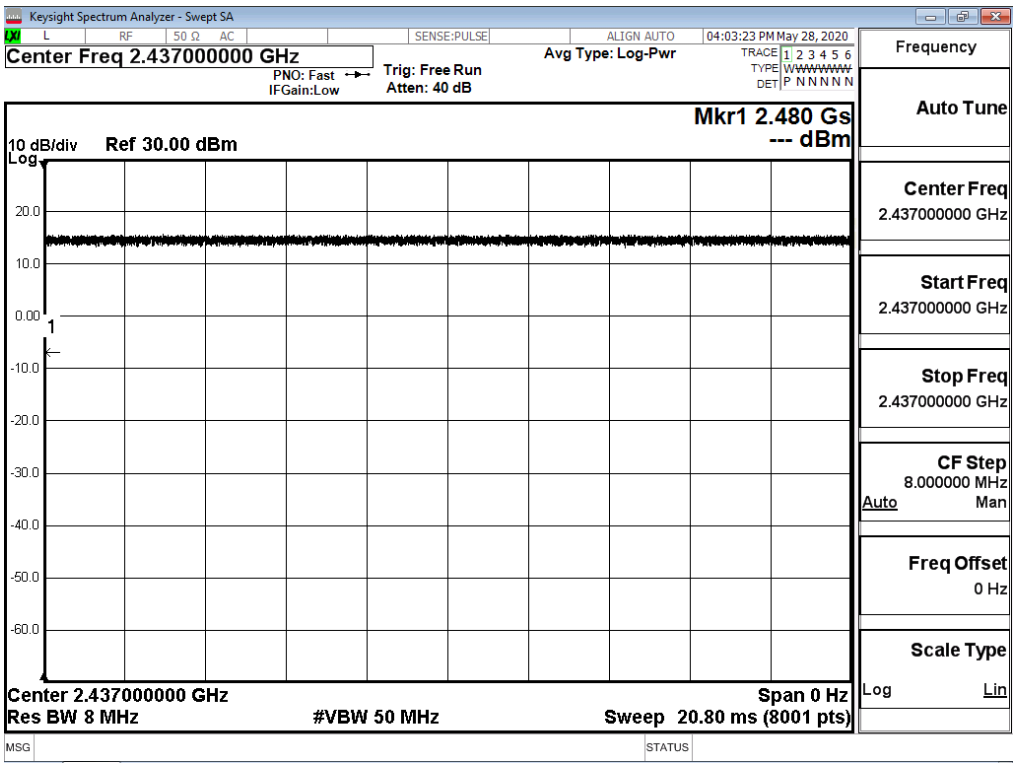
Duty Cycle_11B_2437_Ant1



Duty Cycle_11G_2437_Ant1

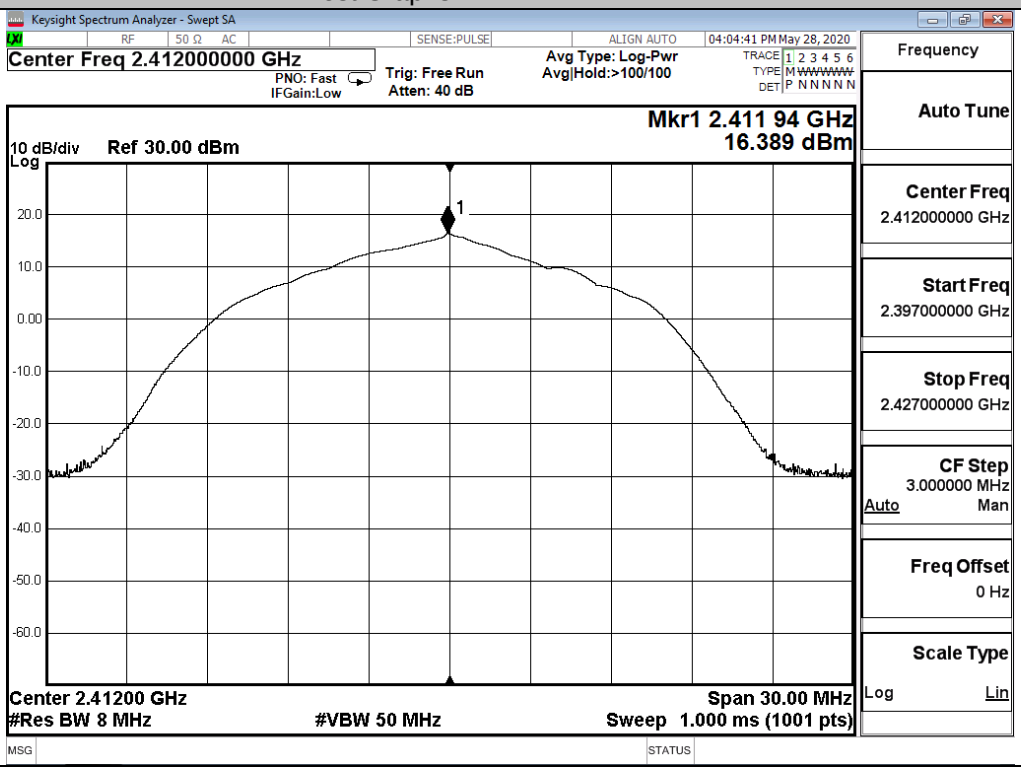


Duty Cycle_11N20SISO_2437_Ant1

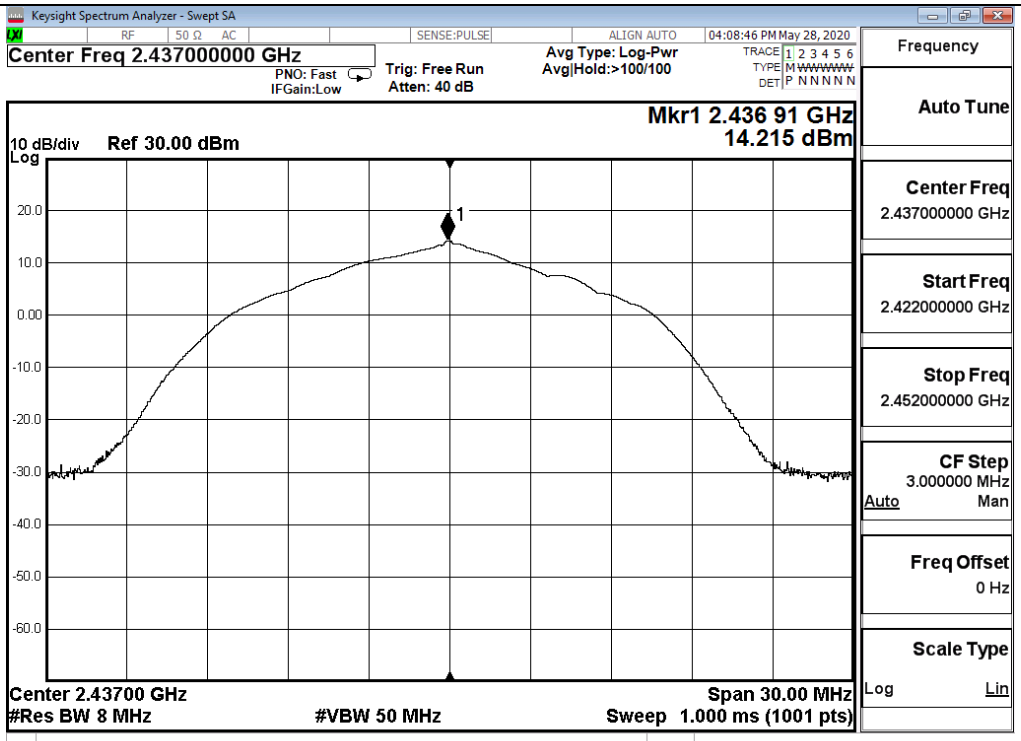


A.2 Maximum Conducted Output Power

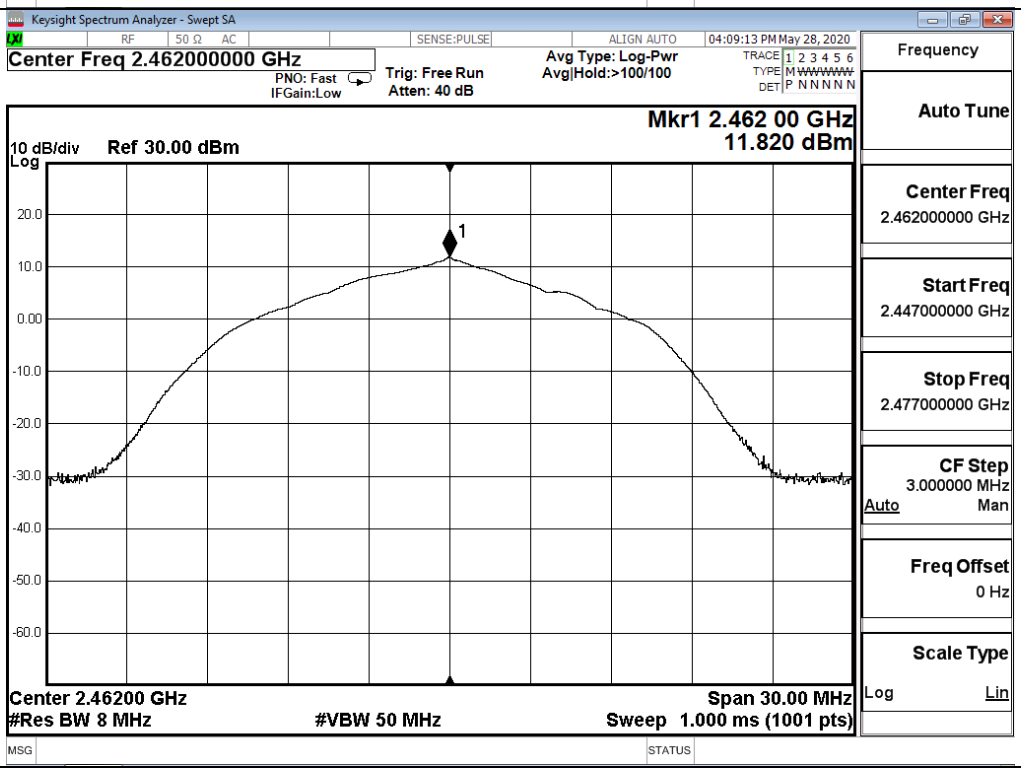
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	16.389	30	PASS
	MCH	14.215	30	PASS
	HCH	11.820	30	PASS
11G	LCH	17.646	30	PASS
	MCH	15.835	30	PASS
	HCH	13.790	30	PASS
11N20SISO	LCH	17.670	30	PASS
	MCH	16.082	30	PASS
	HCH	13.940	30	PASS

Test Graphs	
11B/LCH	

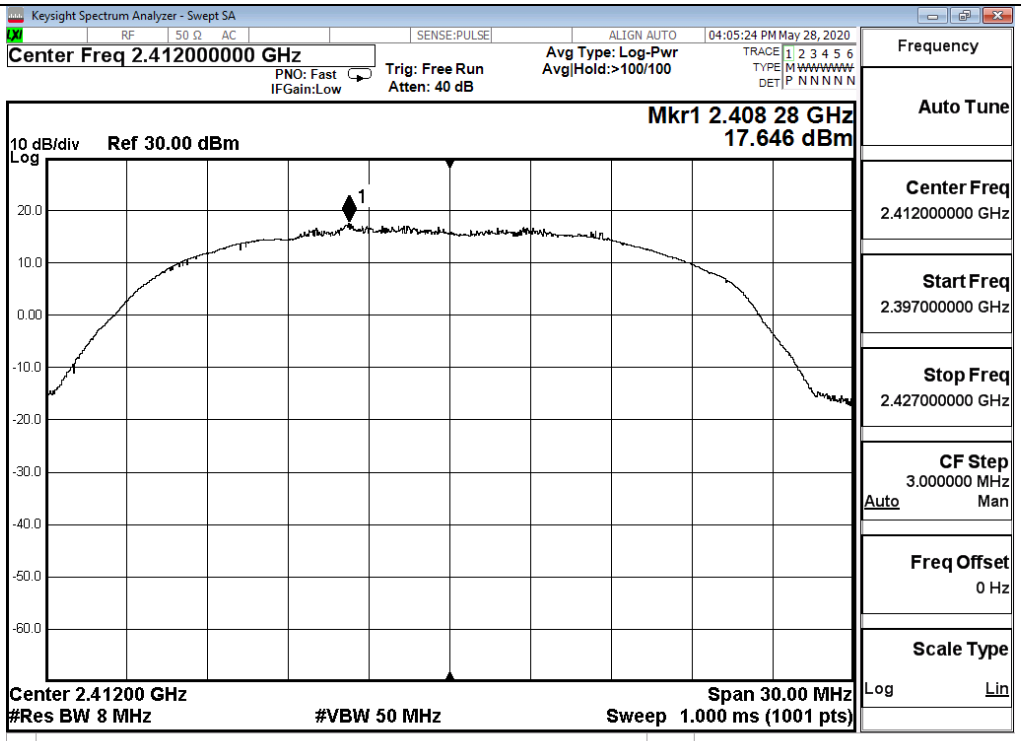
11B/MCH



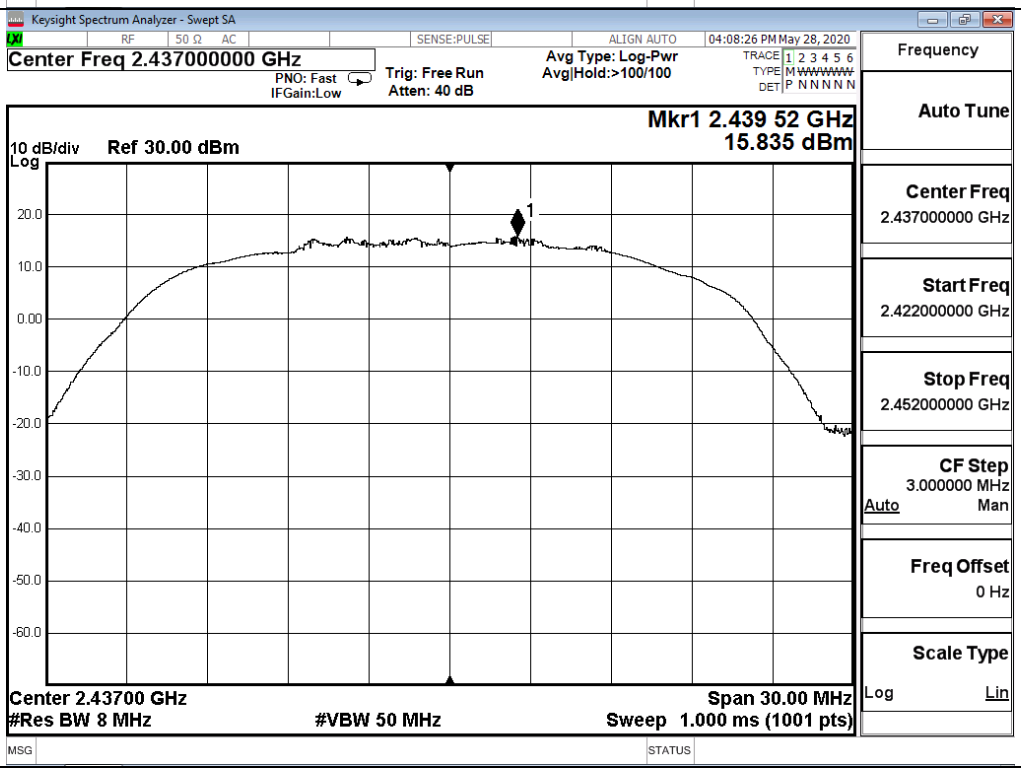
11B/HCH



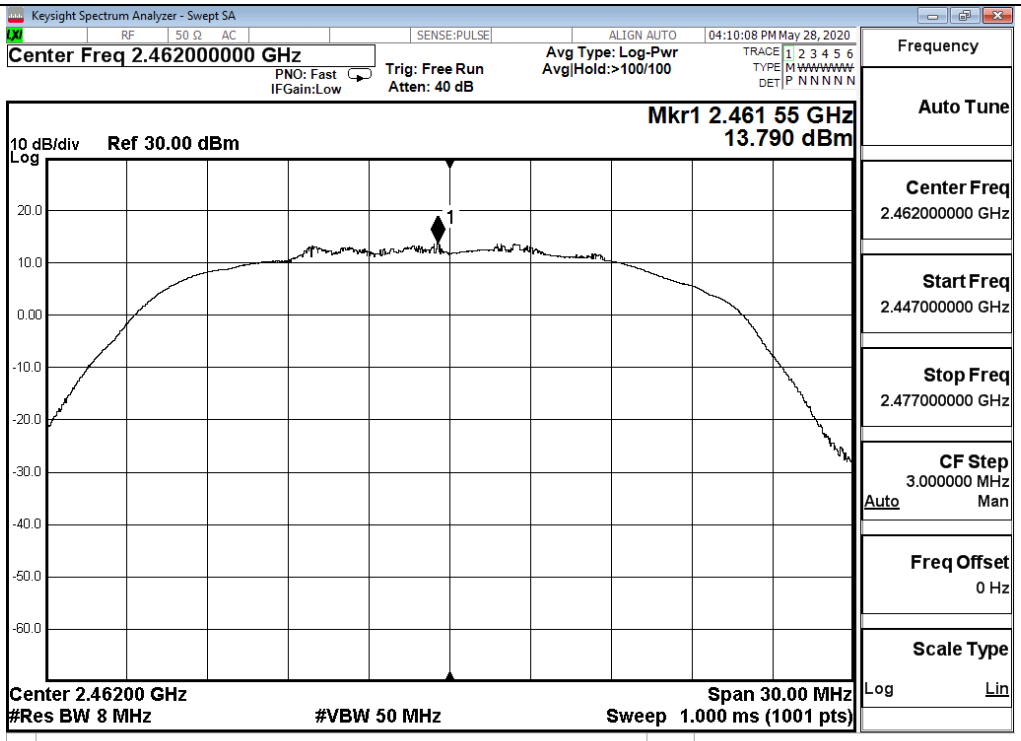
11G/LCH



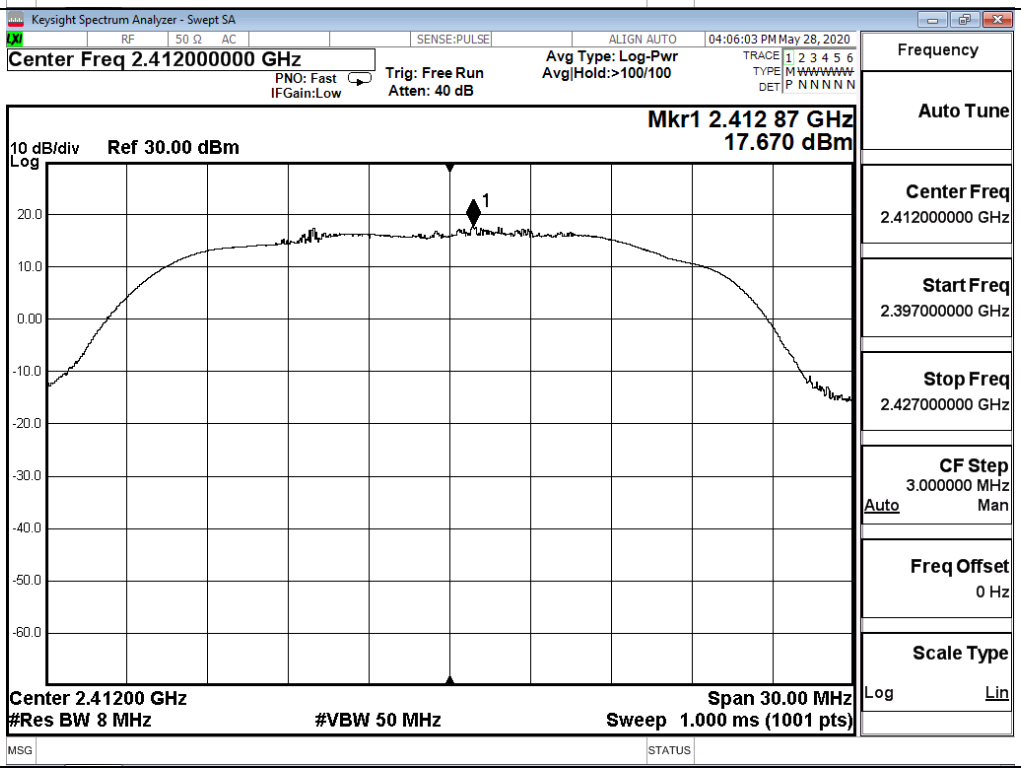
11G/MCH

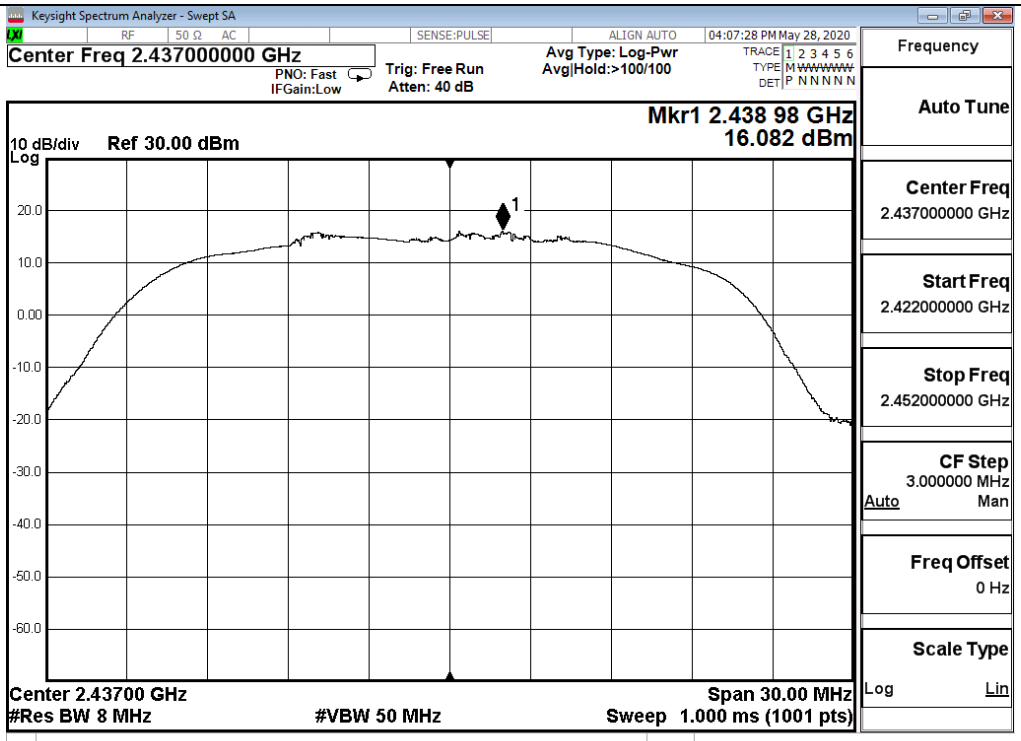
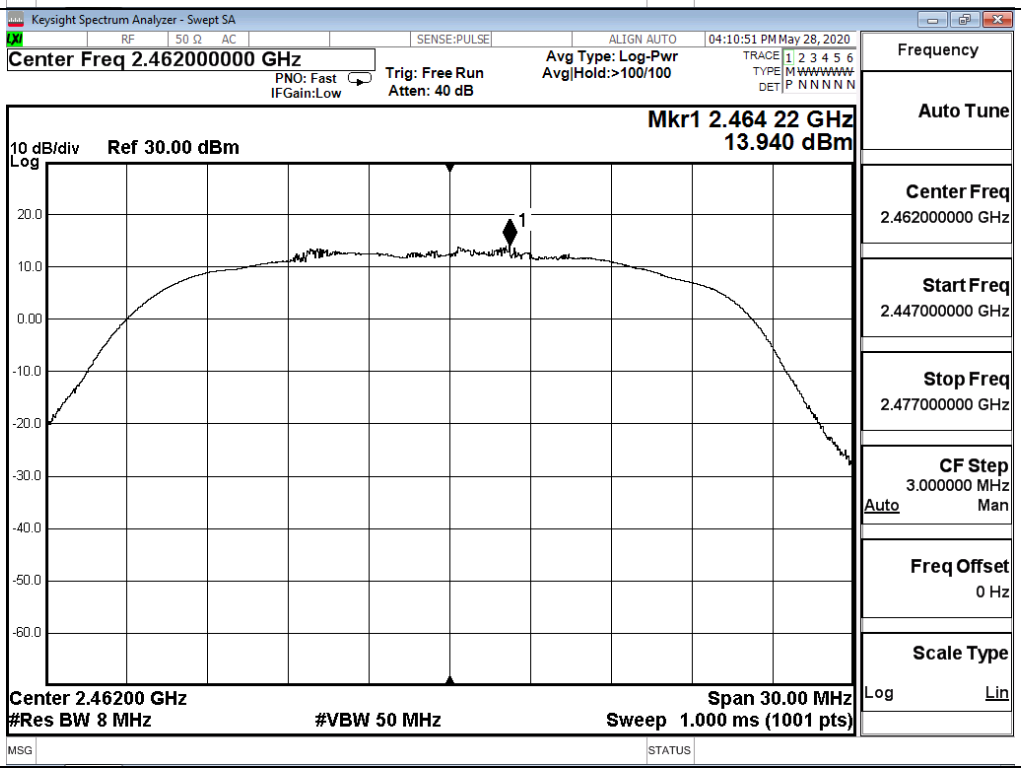


11G/HCH



11N20SISO/LCH

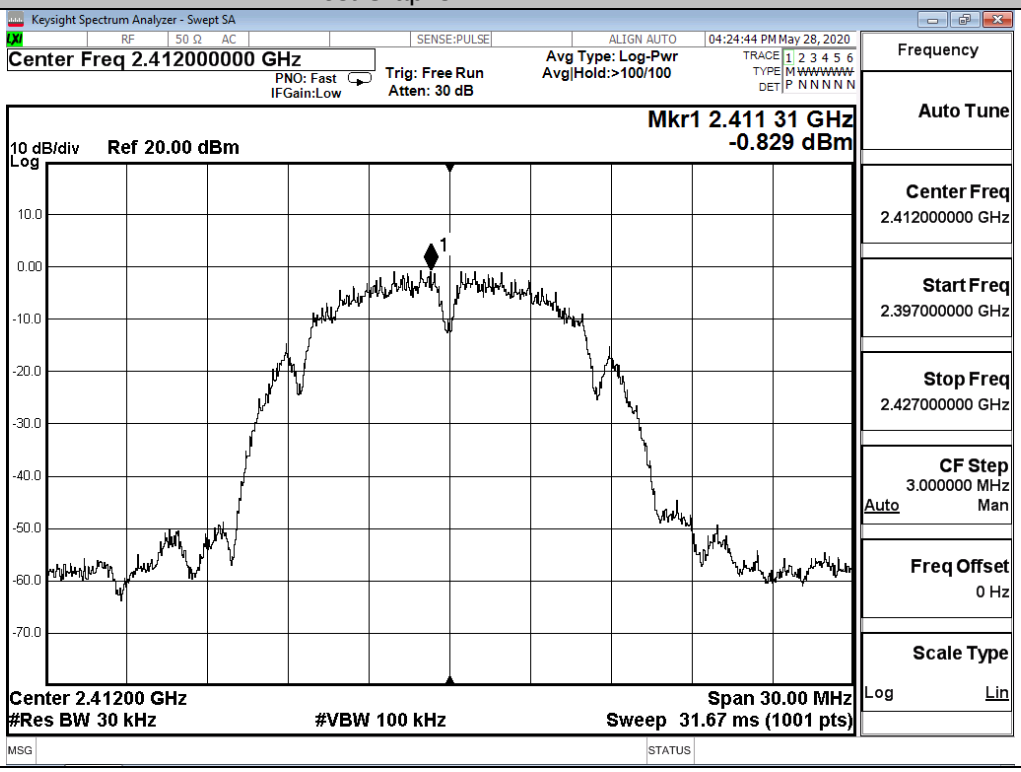


11N20SISO/MCH	
11N20SISO/HCH	

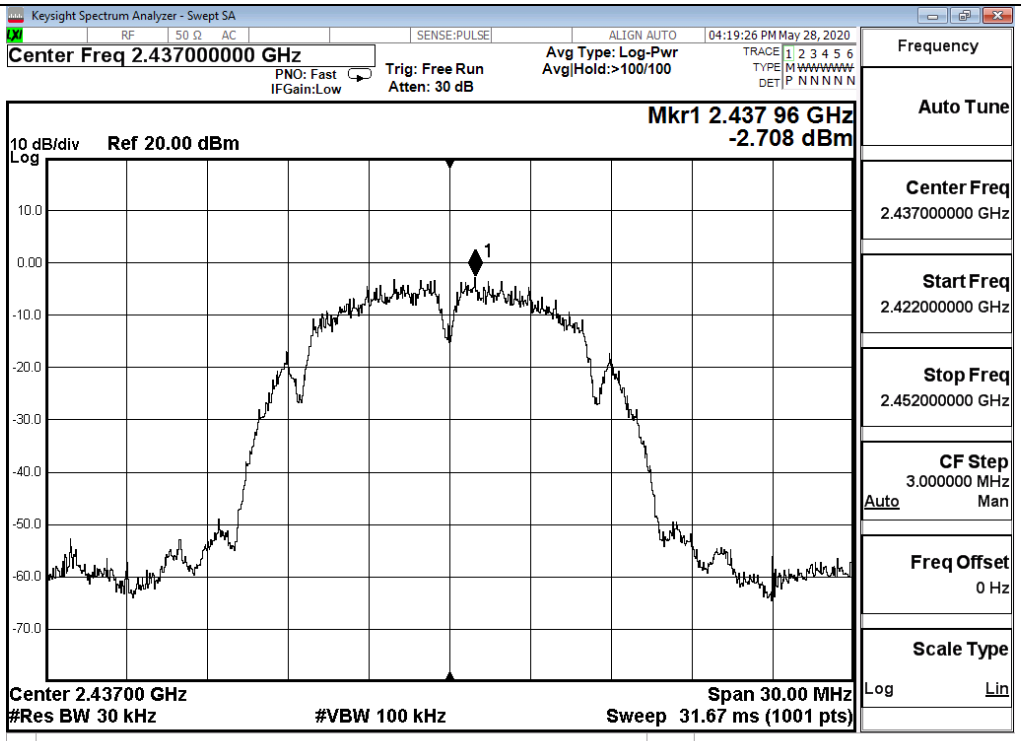
A.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-0.829	-10.829	8	PASS
	MCH	-2.708	-12.708	8	PASS
	HCH	-5.020	-15.020	8	PASS
11G	LCH	-5.583	-15.583	8	PASS
	MCH	-7.863	-17.863	8	PASS
	HCH	-10.221	-20.221	8	PASS
11N20SISO	LCH	-5.089	-15.089	8	PASS
	MCH	-7.259	-17.259	8	PASS
	HCH	-9.513	-19.513	8	PASS

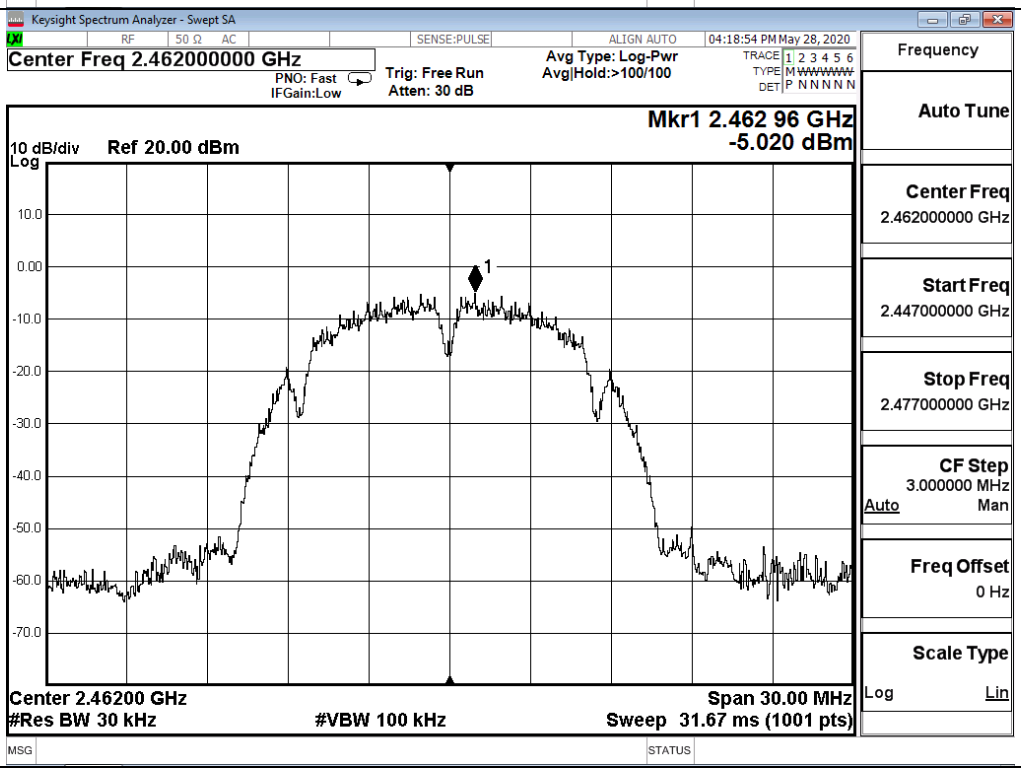
Note: **Meas.Level [dBm/3KHz] = Meas.Level [dBm/30KHz] -10 log(30 / 3)**

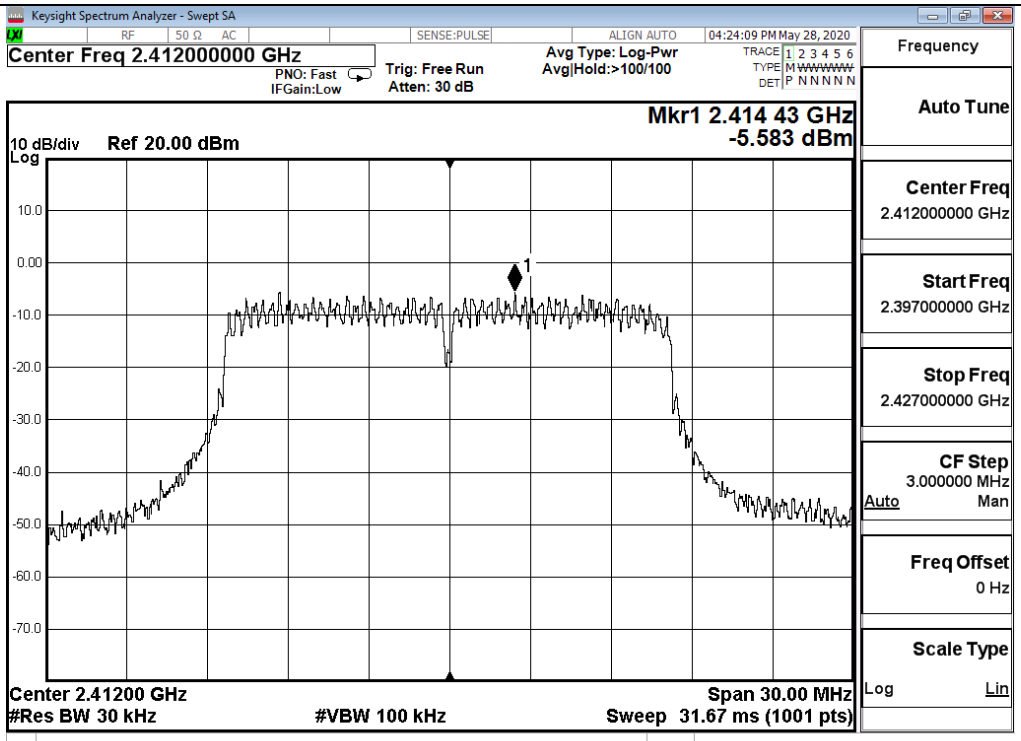
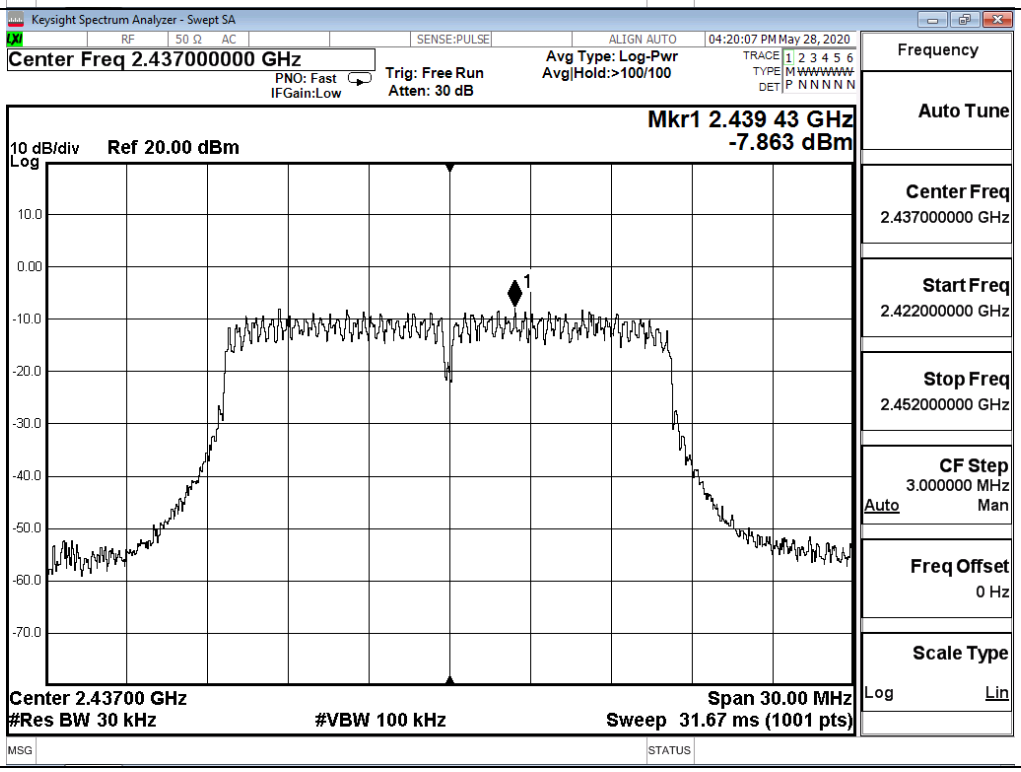
Test Graphs	
11B/LCH	

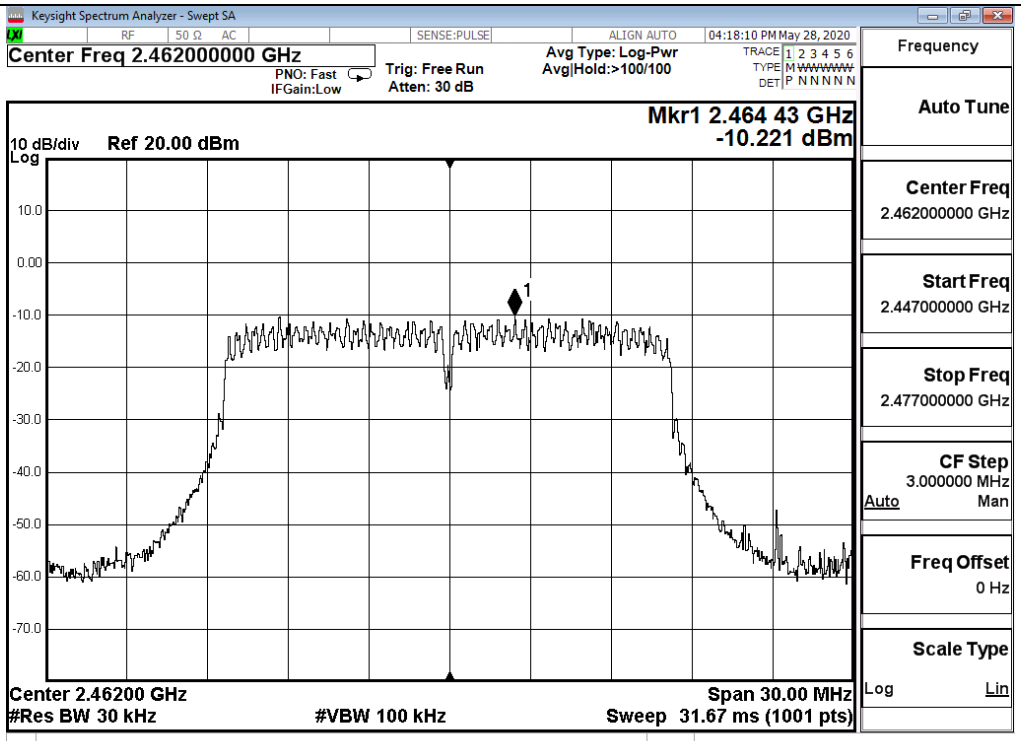
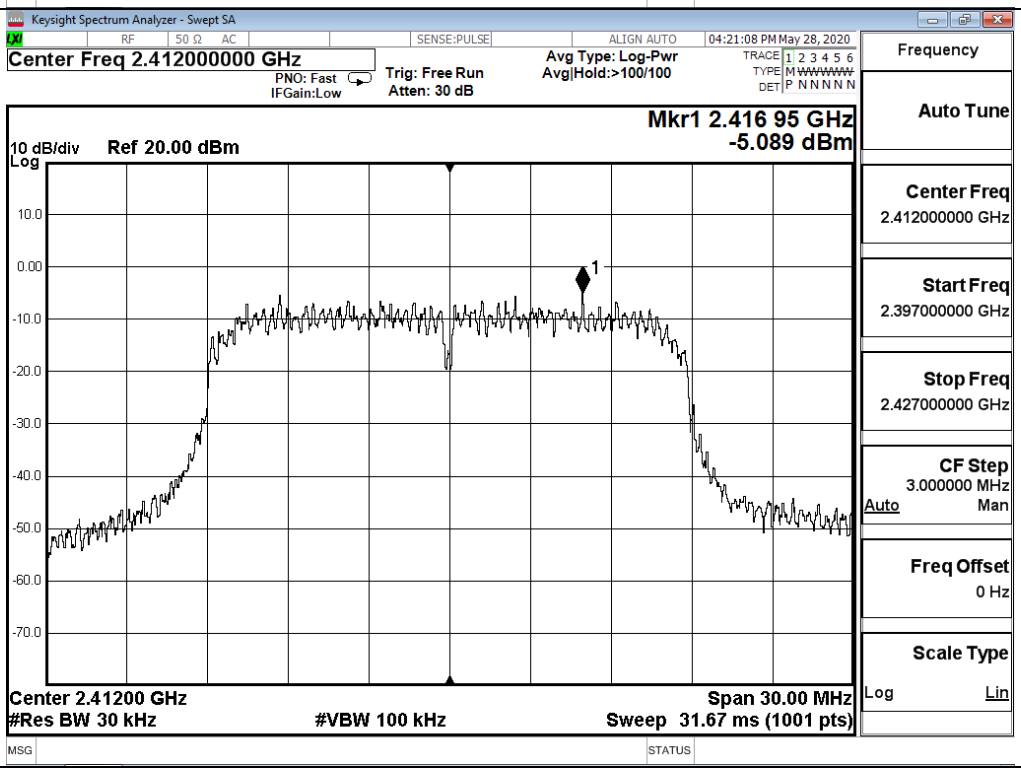
11B/MCH

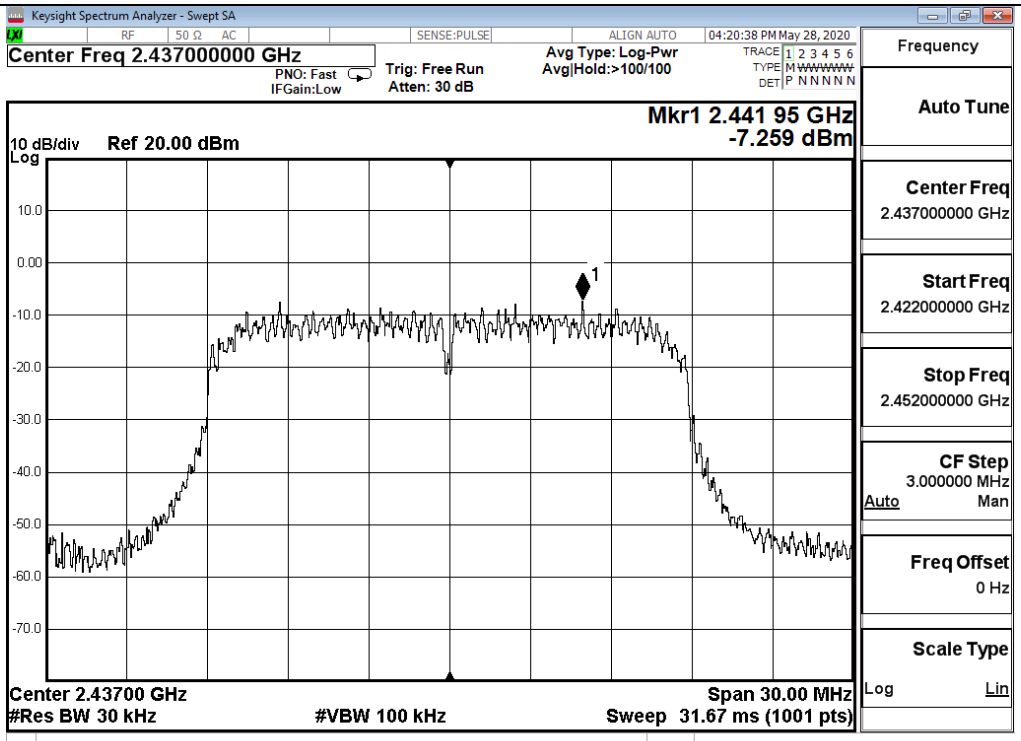
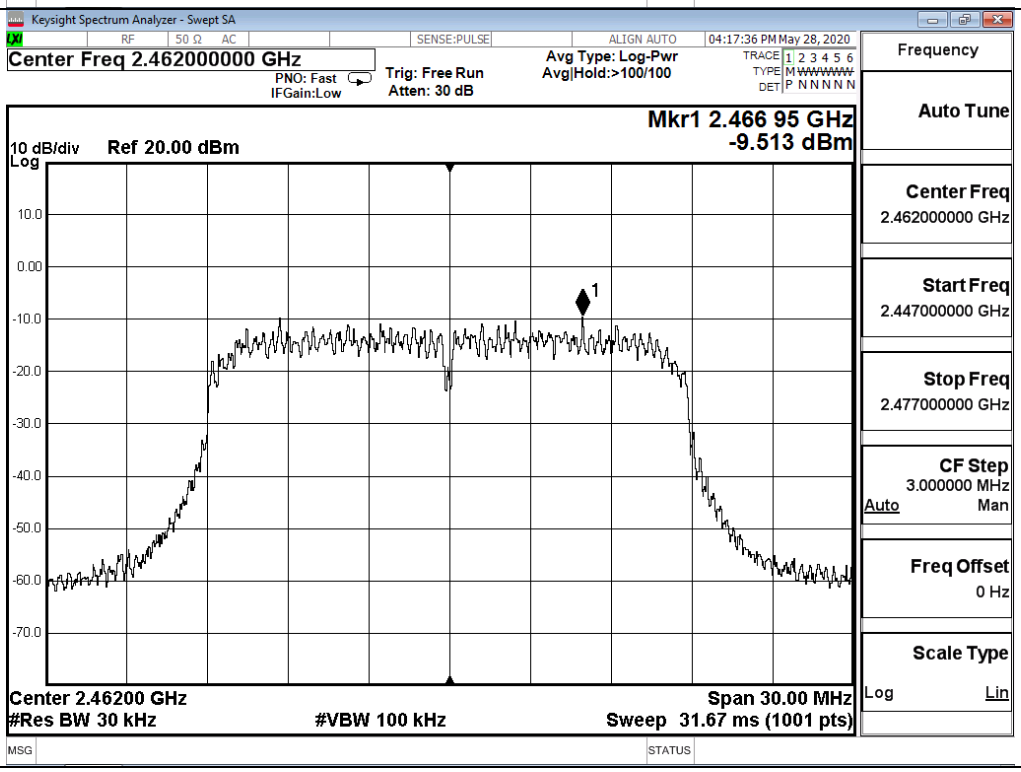


11B/HCH



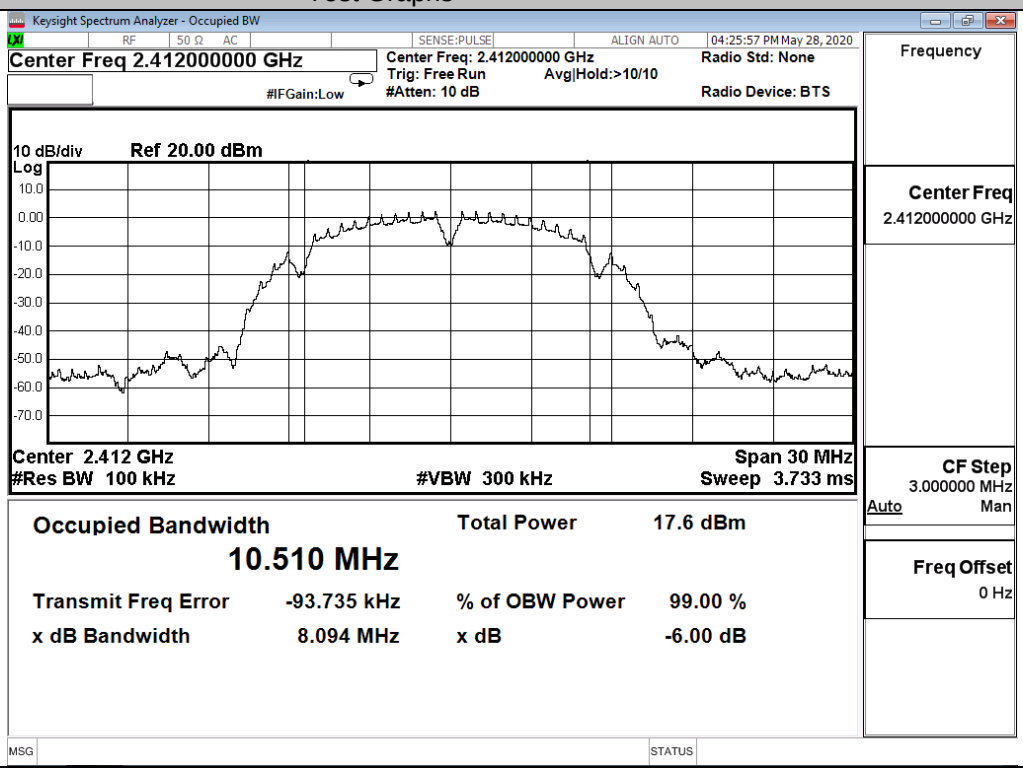
11G/LCH	
11G/MCH	

11G/HCH	
11N20SISO/LCH	

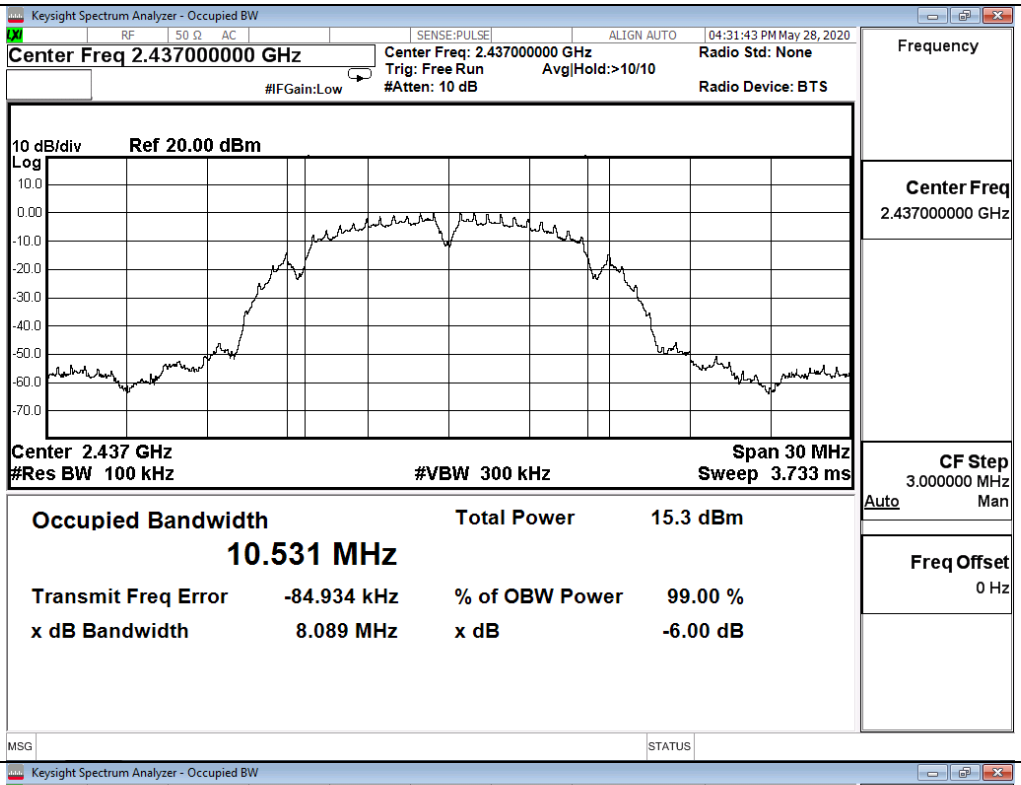
11N20SISO/MCH	
11N20SISO/HCH	

A.4 6dB Bandwidth

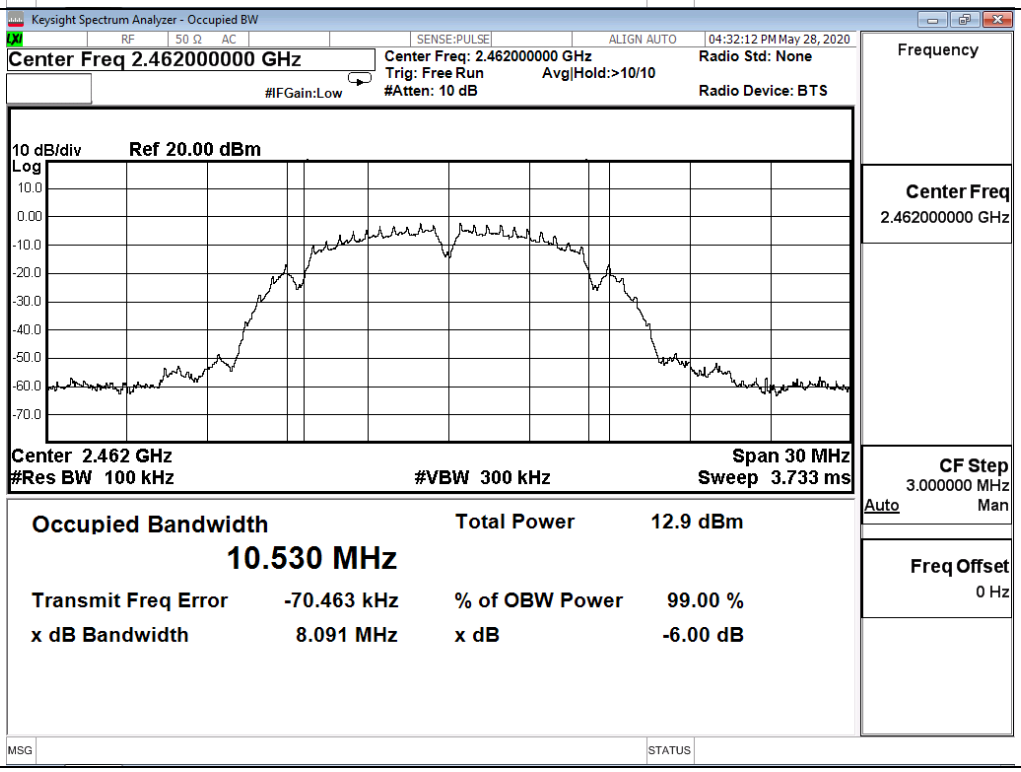
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	8.094	≥0.5	PASS
	MCH	8.089	≥0.5	PASS
	HCH	8.091	≥0.5	PASS
11G	LCH	15.36	≥0.5	PASS
	MCH	15.66	≥0.5	PASS
	HCH	15.66	≥0.5	PASS
11N20SISO	LCH	15.65	≥0.5	PASS
	MCH	15.66	≥0.5	PASS
	HCH	15.66	≥0.5	PASS

Test Graphs	
11B/LCH	

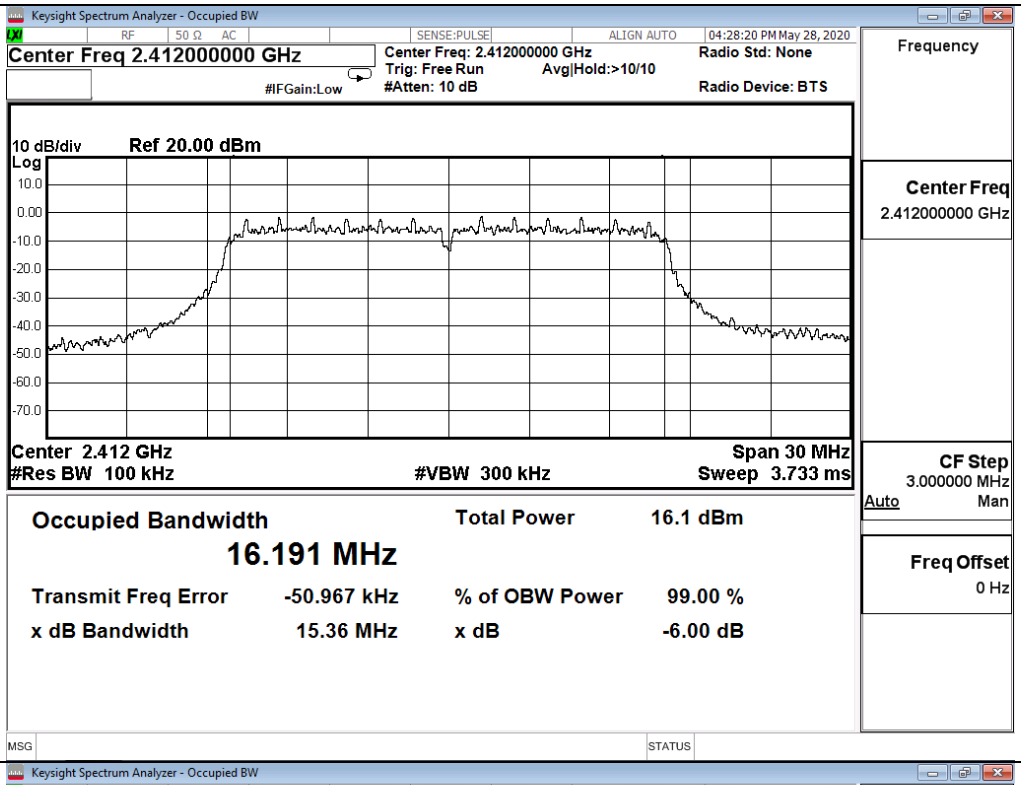
11B/MCH



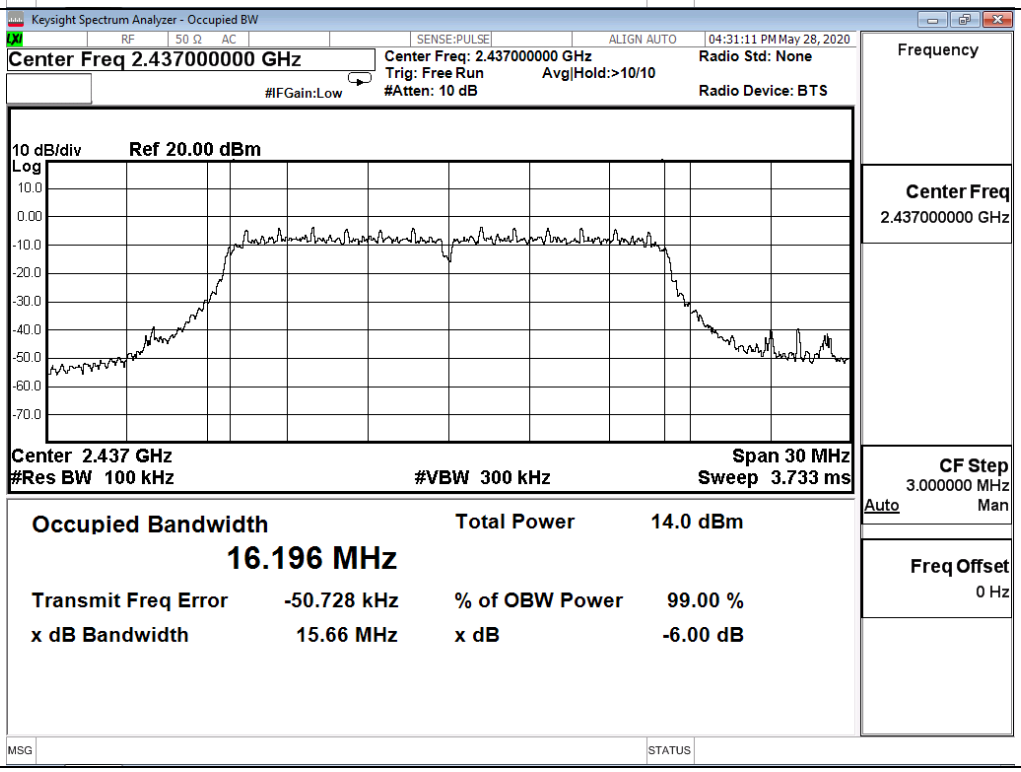
11B/HCH



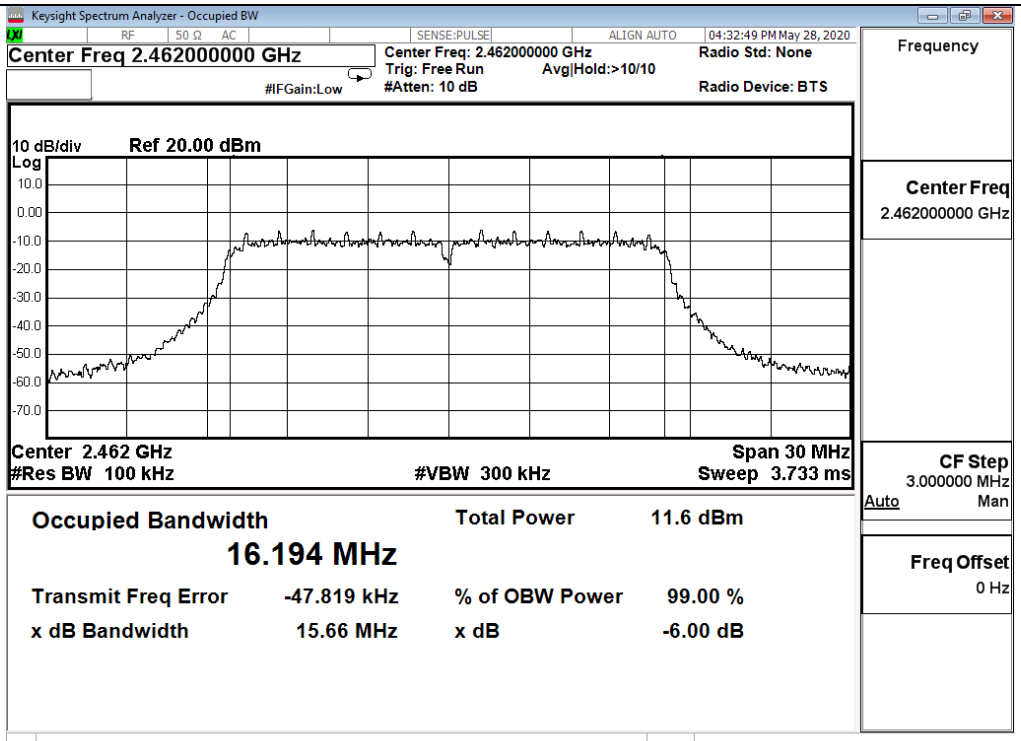
11G/LCH



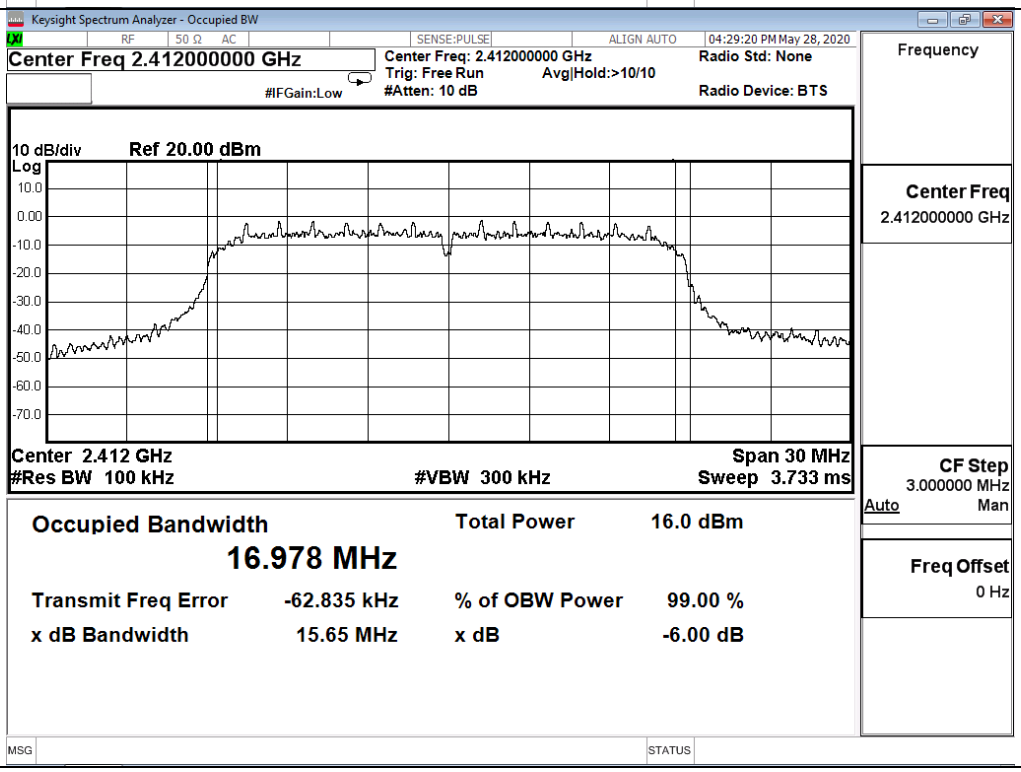
11G/MCH

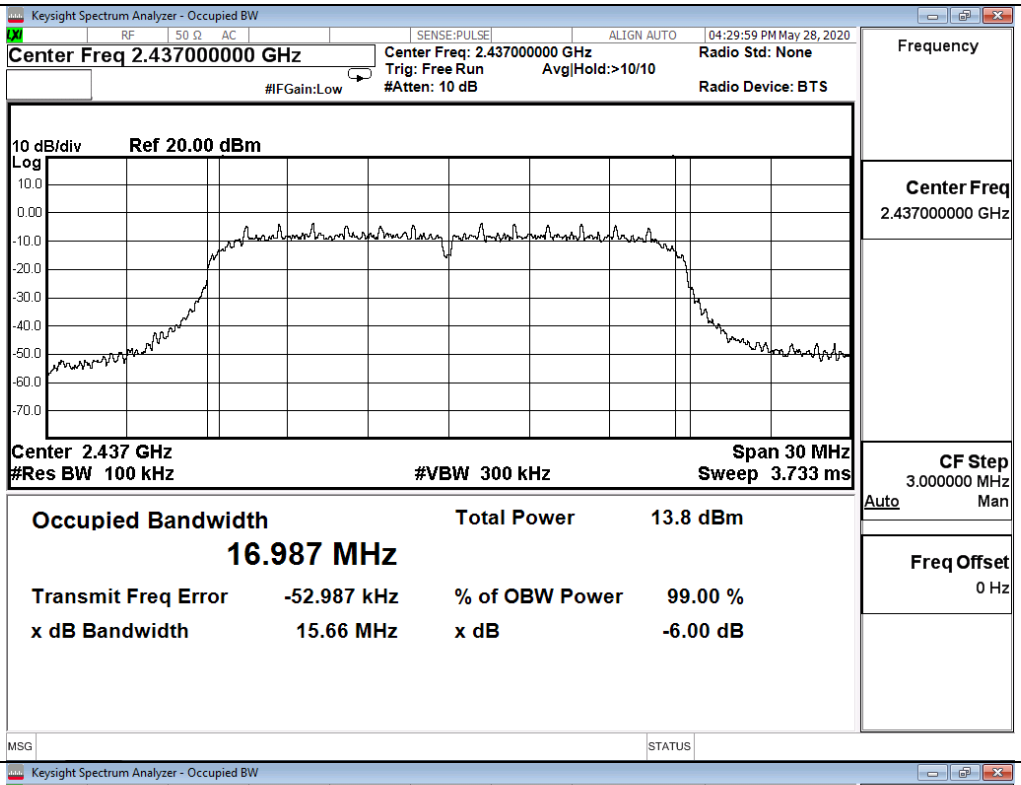
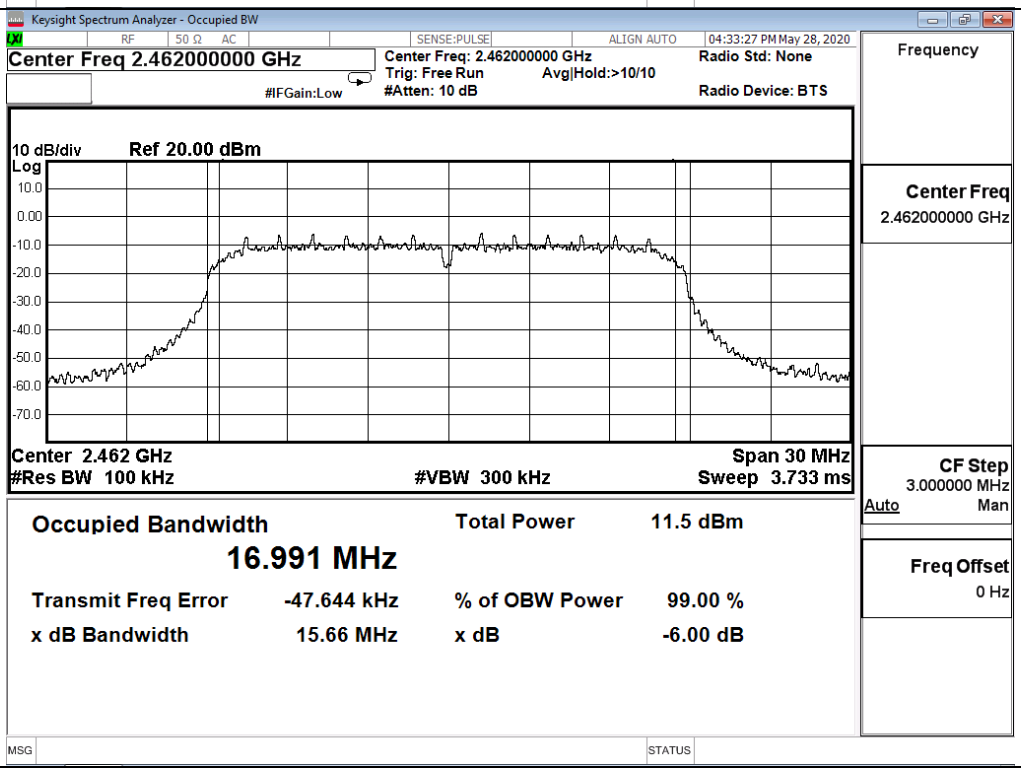


11G/HCH



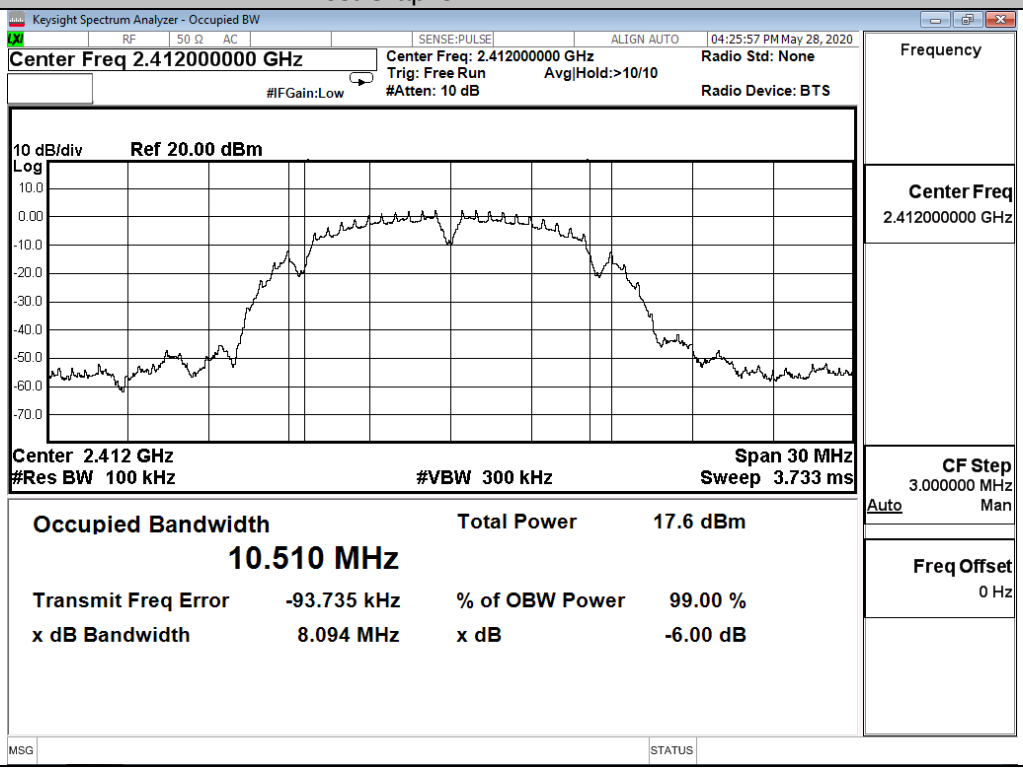
11N20SISO/LCH



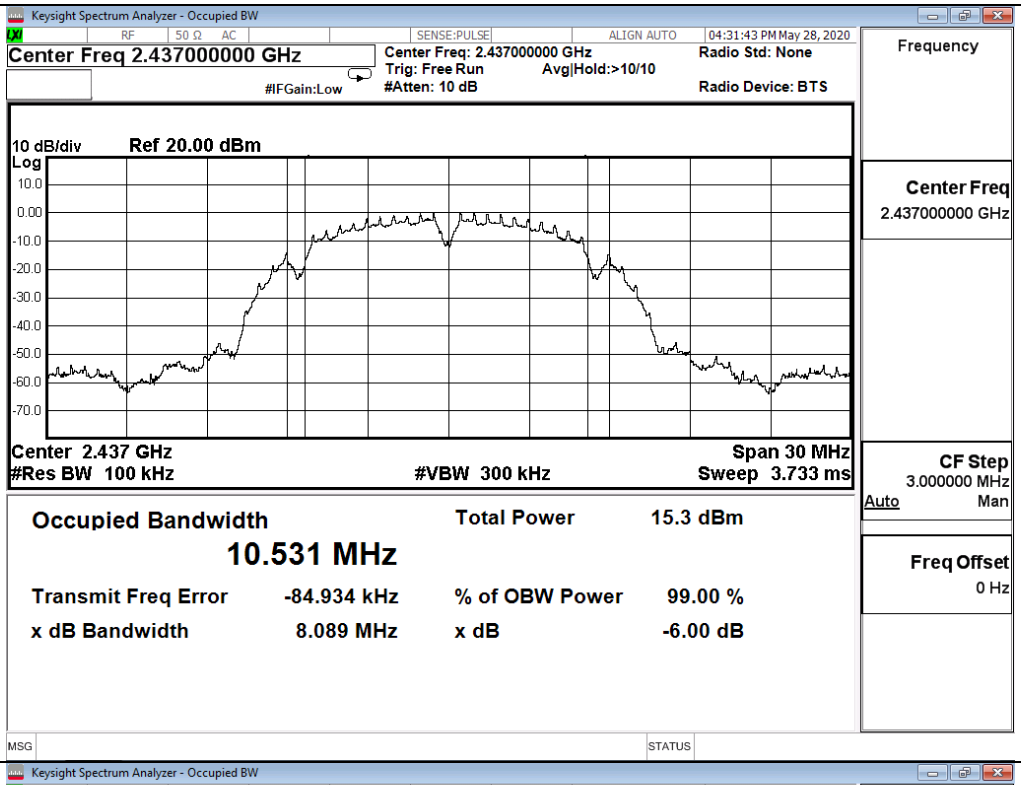
11N20SISO/MCH	
11N20SISO/HCH	

A.5 Occupied Bandwidth

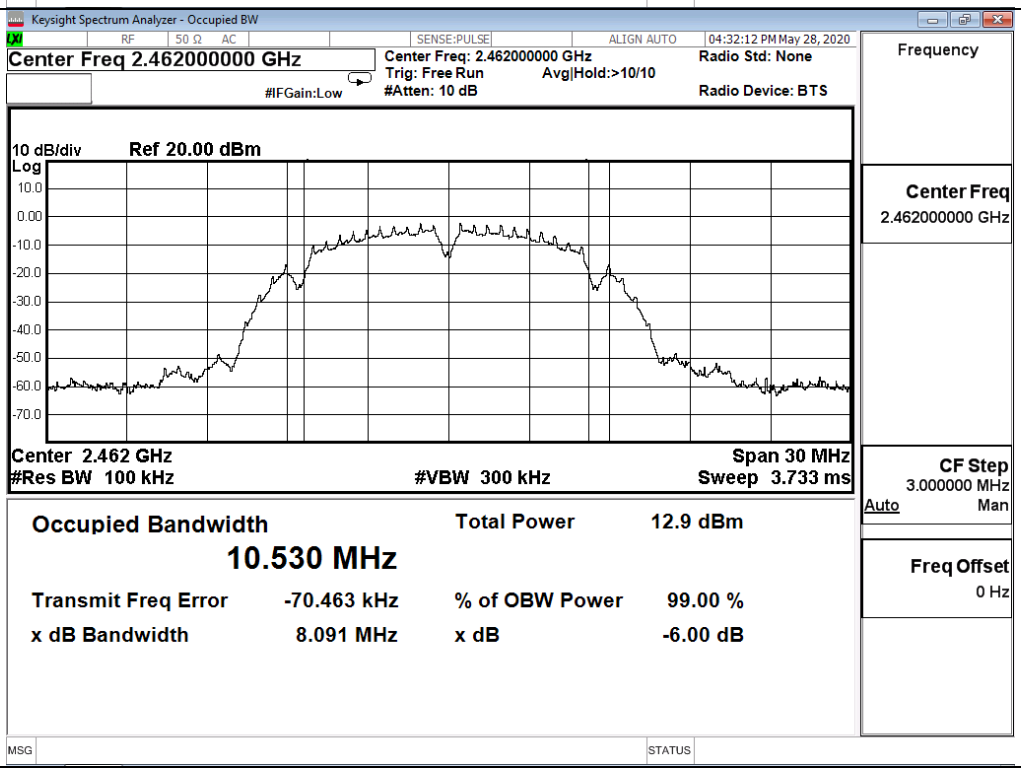
Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	10.510	⩾0.5	PASS
	MCH	10.531	⩾0.5	PASS
	HCH	10.530	⩾0.5	PASS
11G	LCH	16.191	⩾0.5	PASS
	MCH	16.196	⩾0.5	PASS
	HCH	16.194	⩾0.5	PASS
11N20SISO	LCH	16.978	⩾0.5	PASS
	MCH	16.987	⩾0.5	PASS
	HCH	16.991	⩾0.5	PASS

Test Graphs	
11B/LCH	

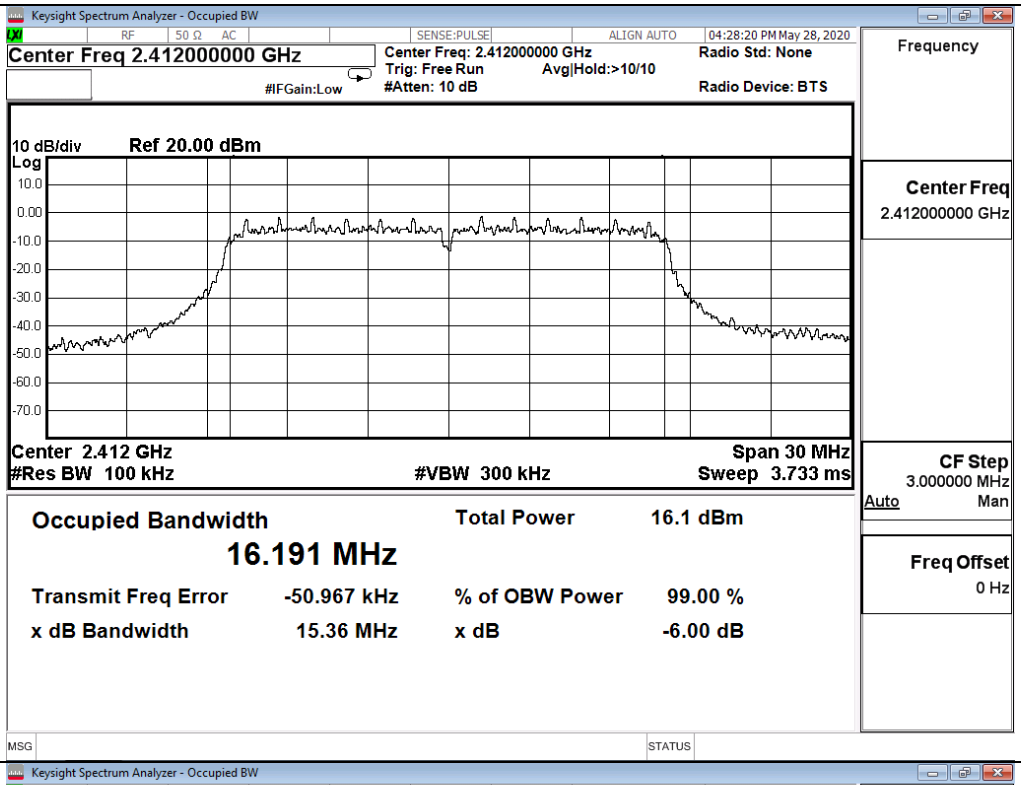
11B/MCH



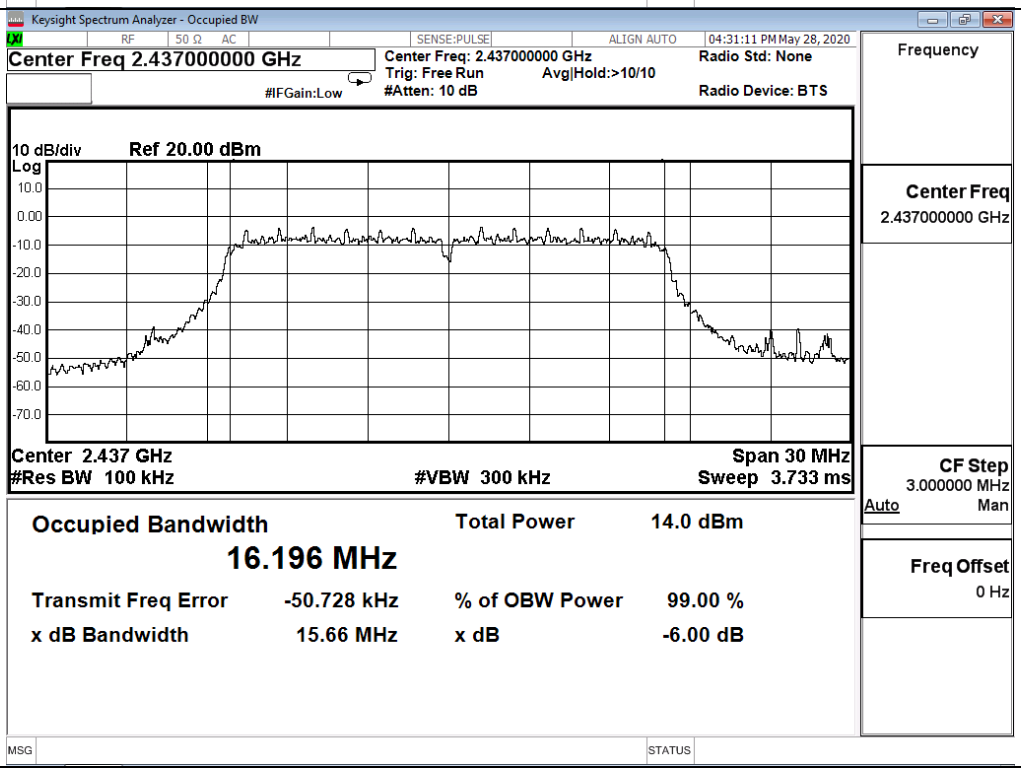
11B/HCH

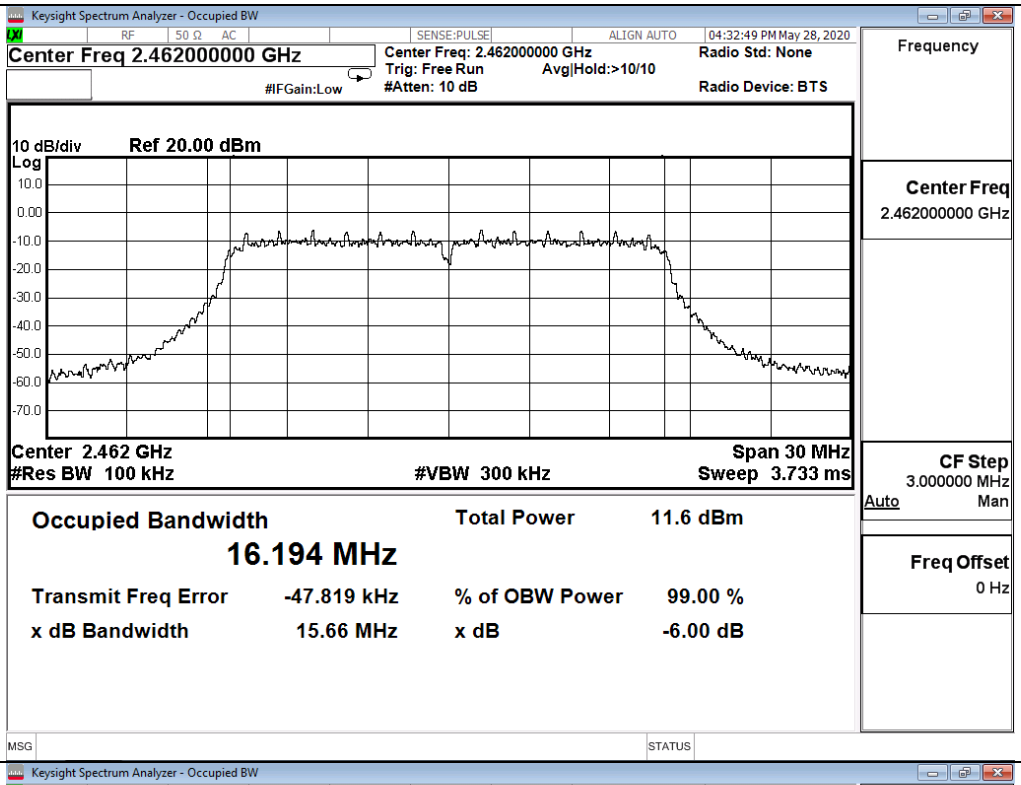
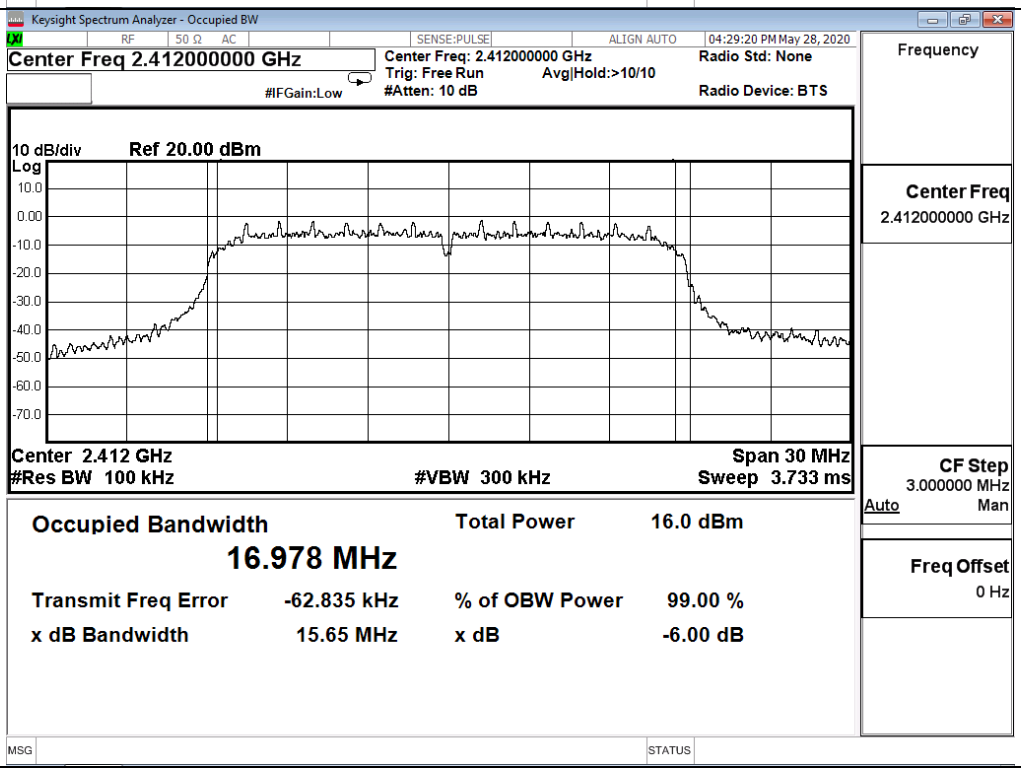


11G/LCH

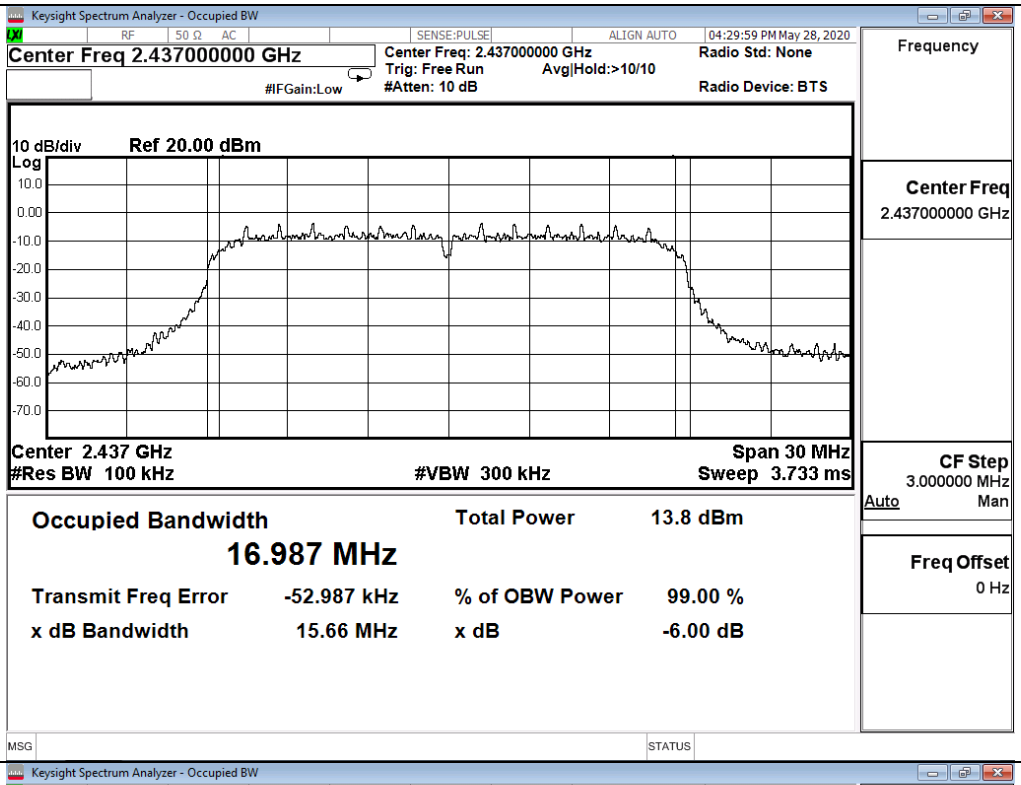


11G/MCH

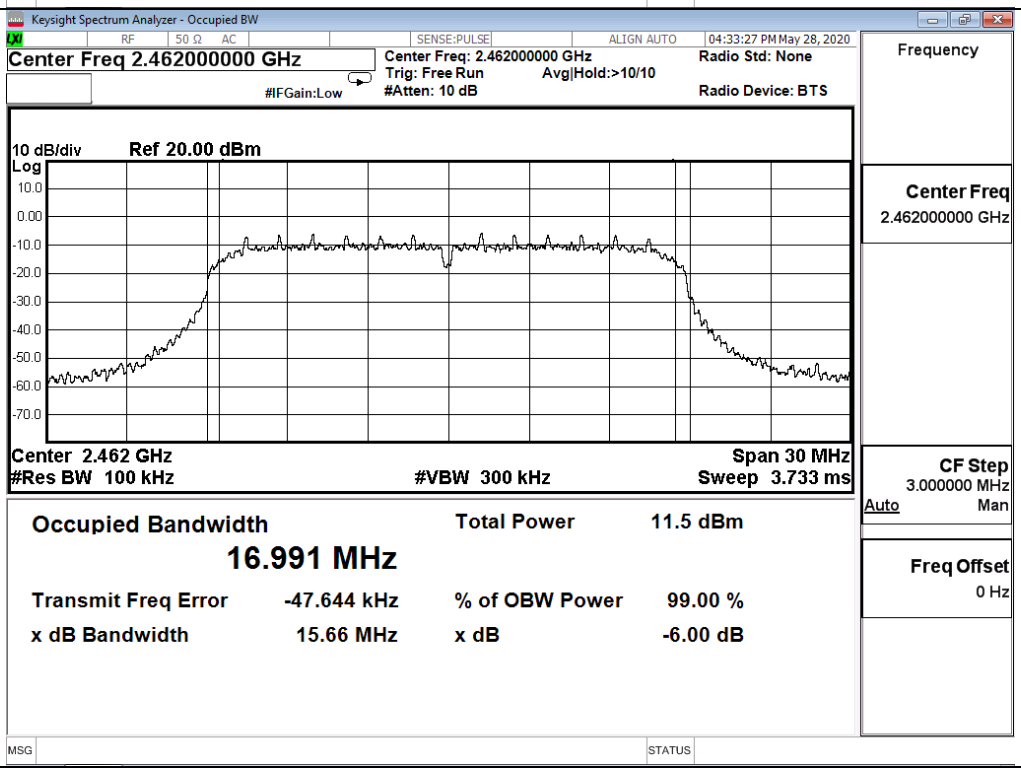


11G/HCH	
11N20SISO/LCH	

11N20SISO/MCH

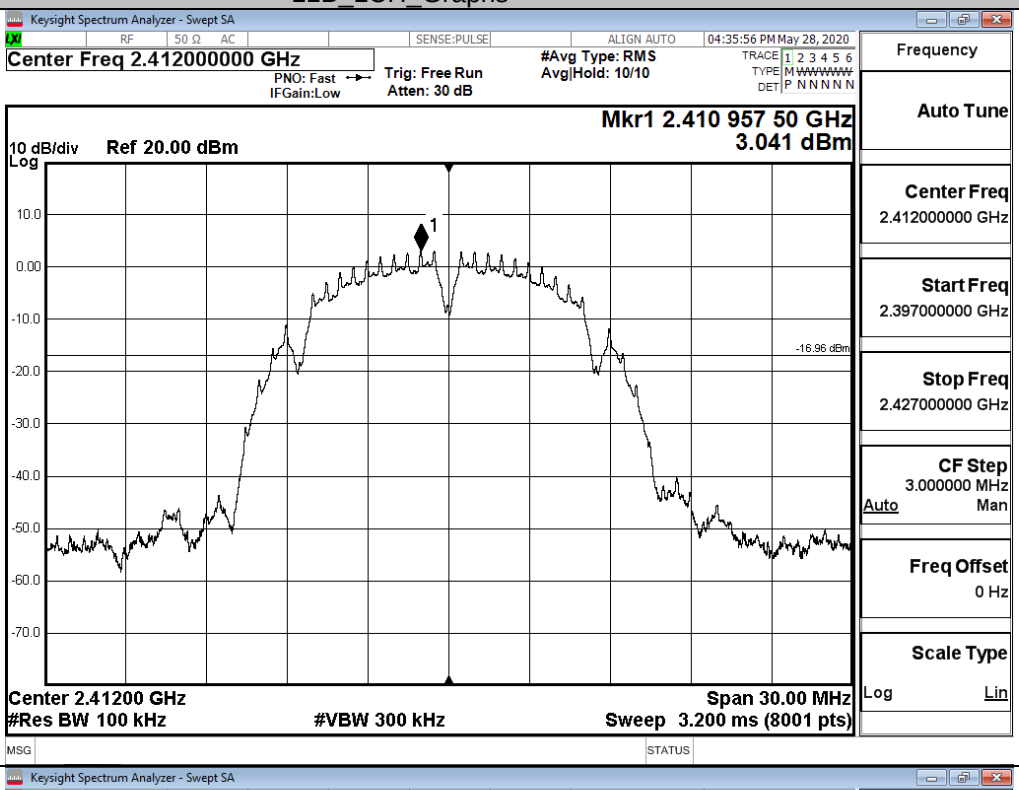
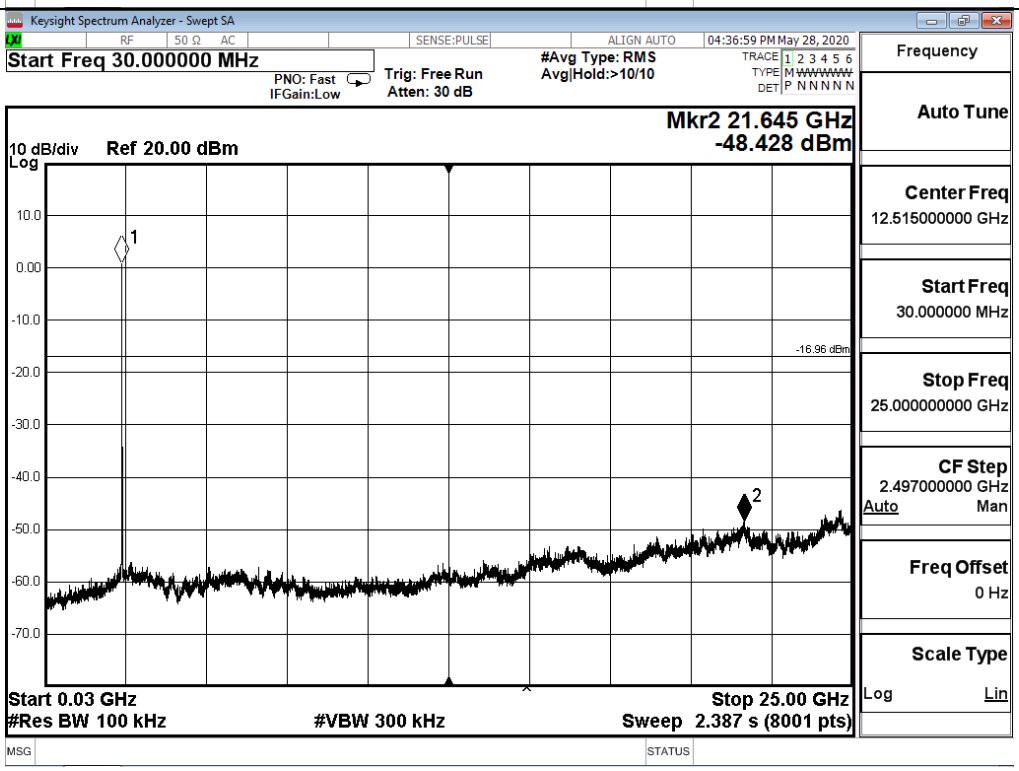


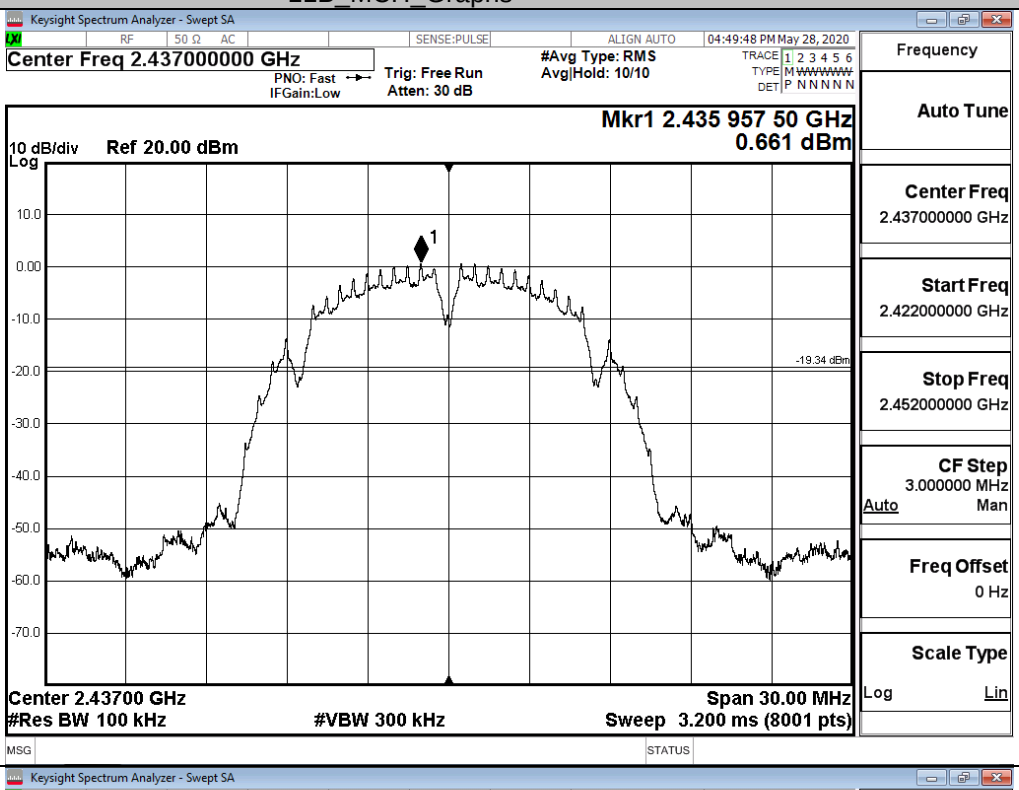
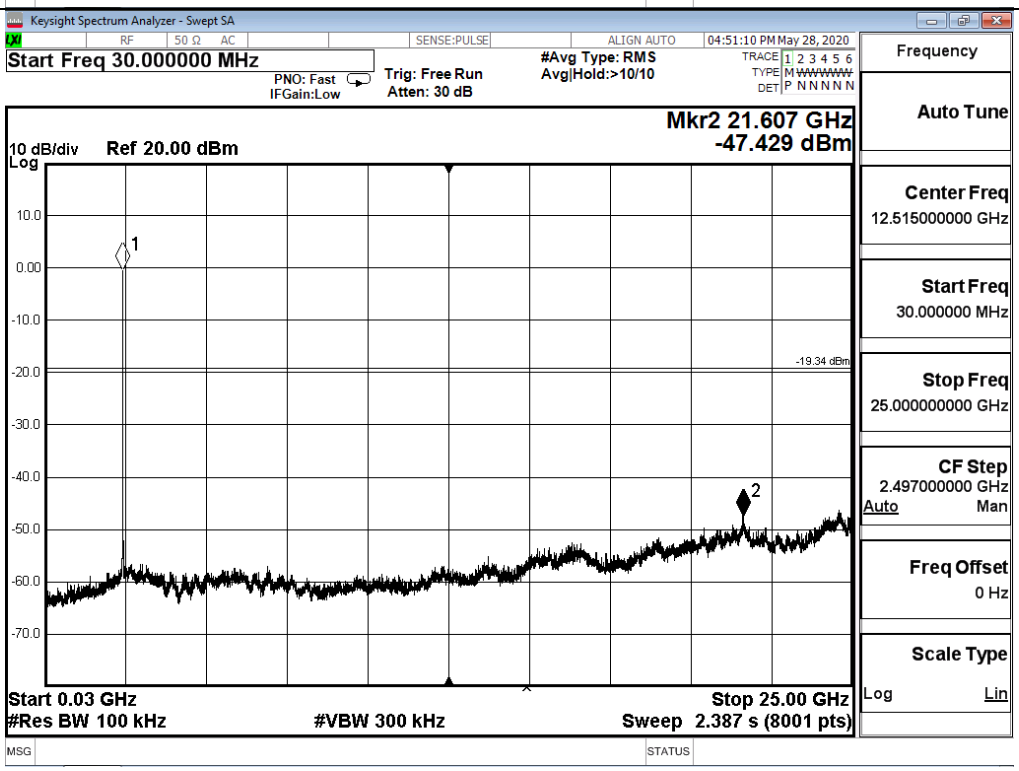
11N20SISO/HCH

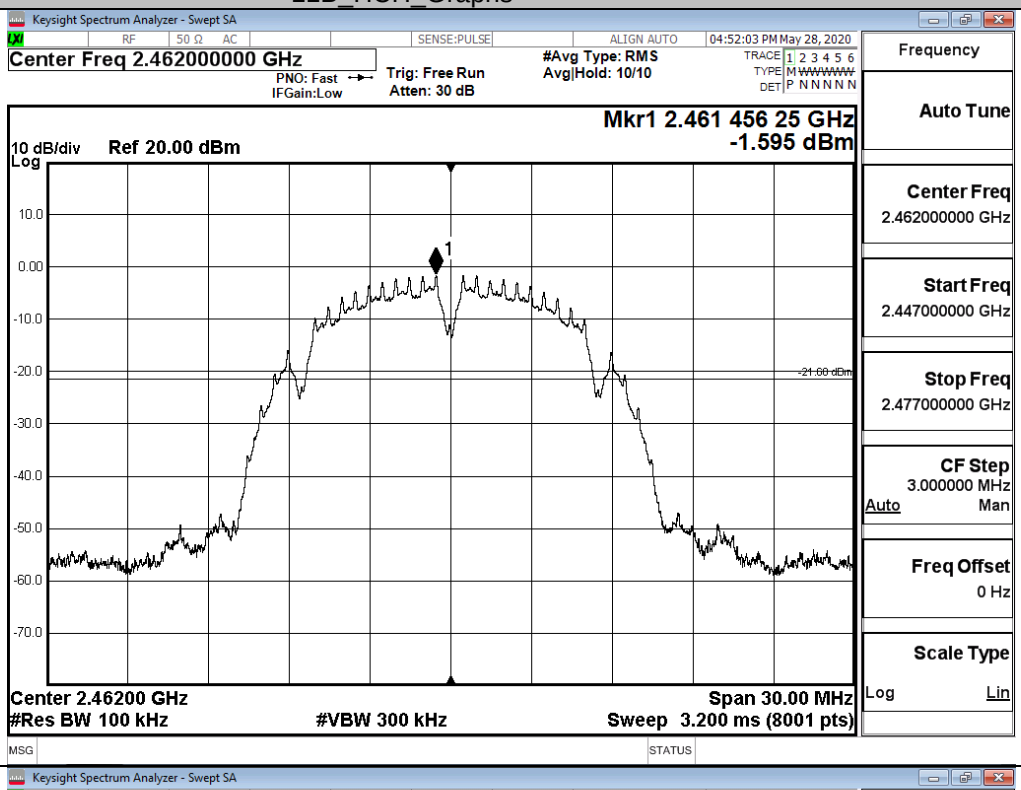
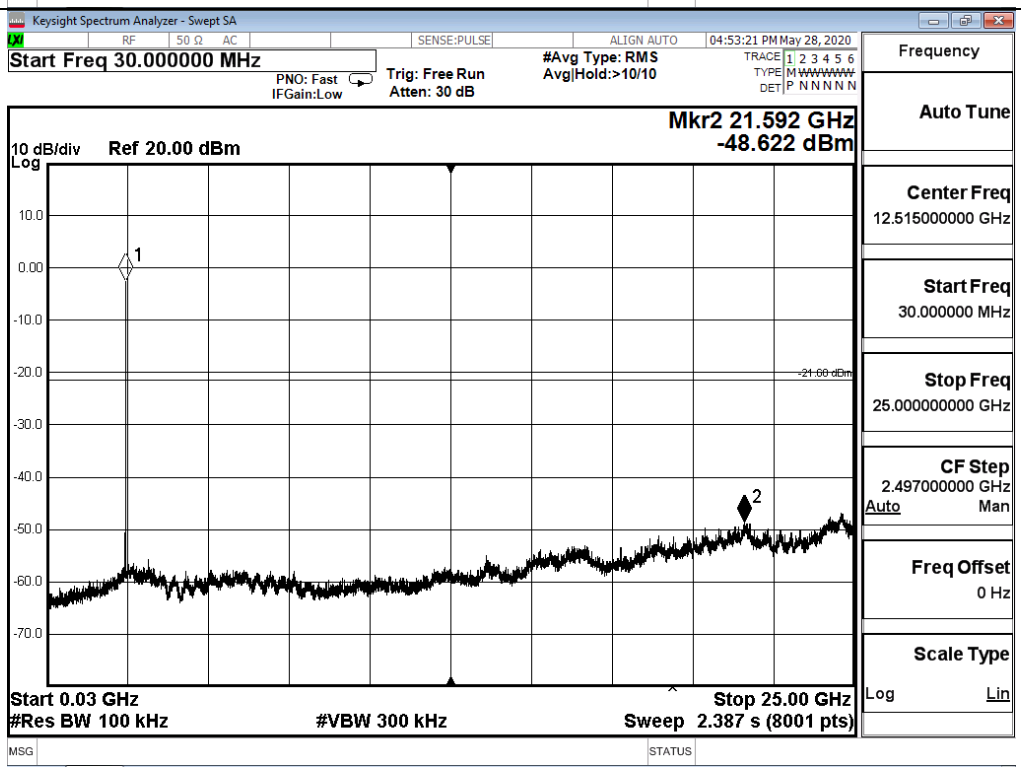


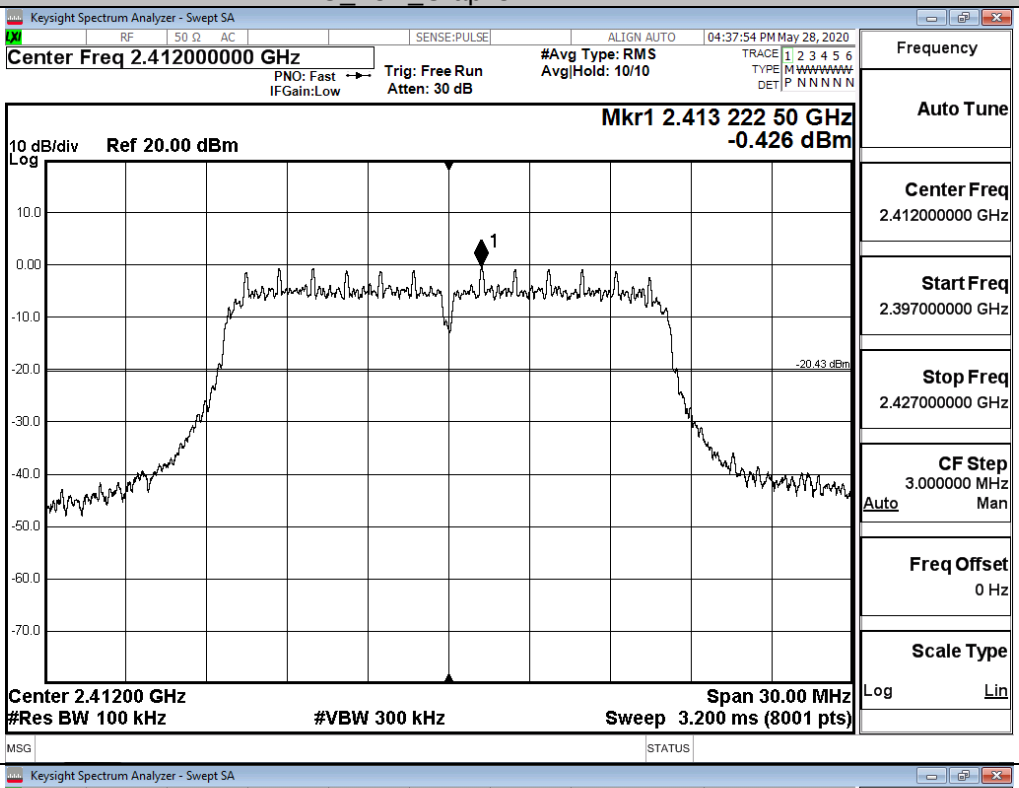
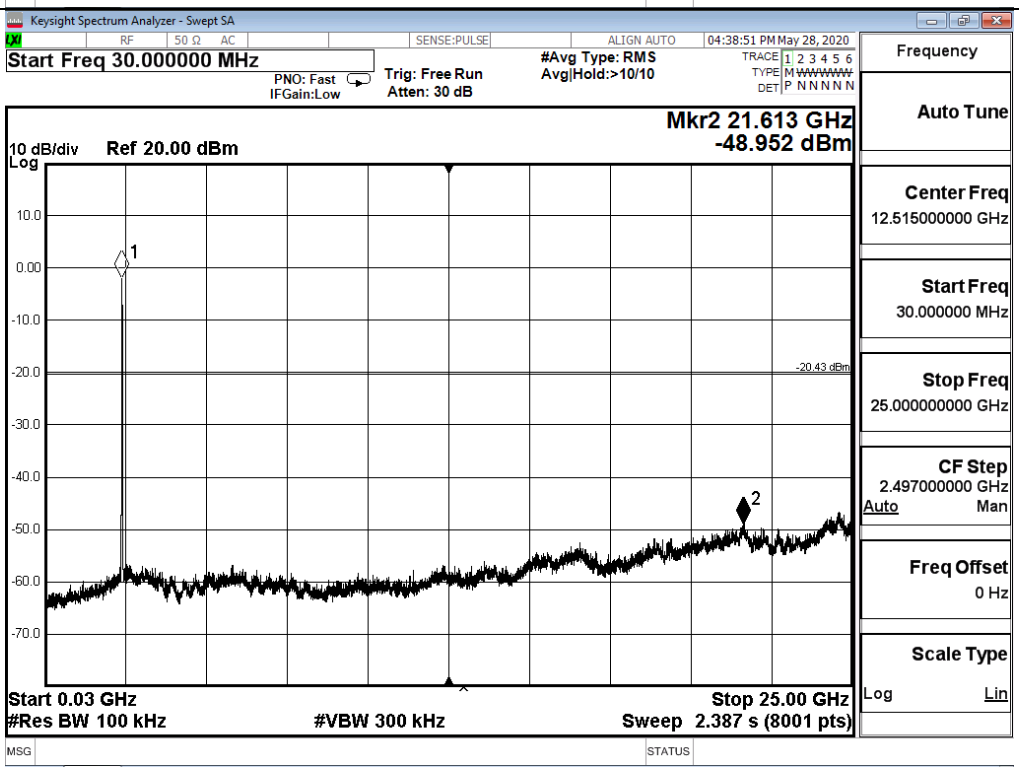
A.6 RF Conducted Spurious Emissions

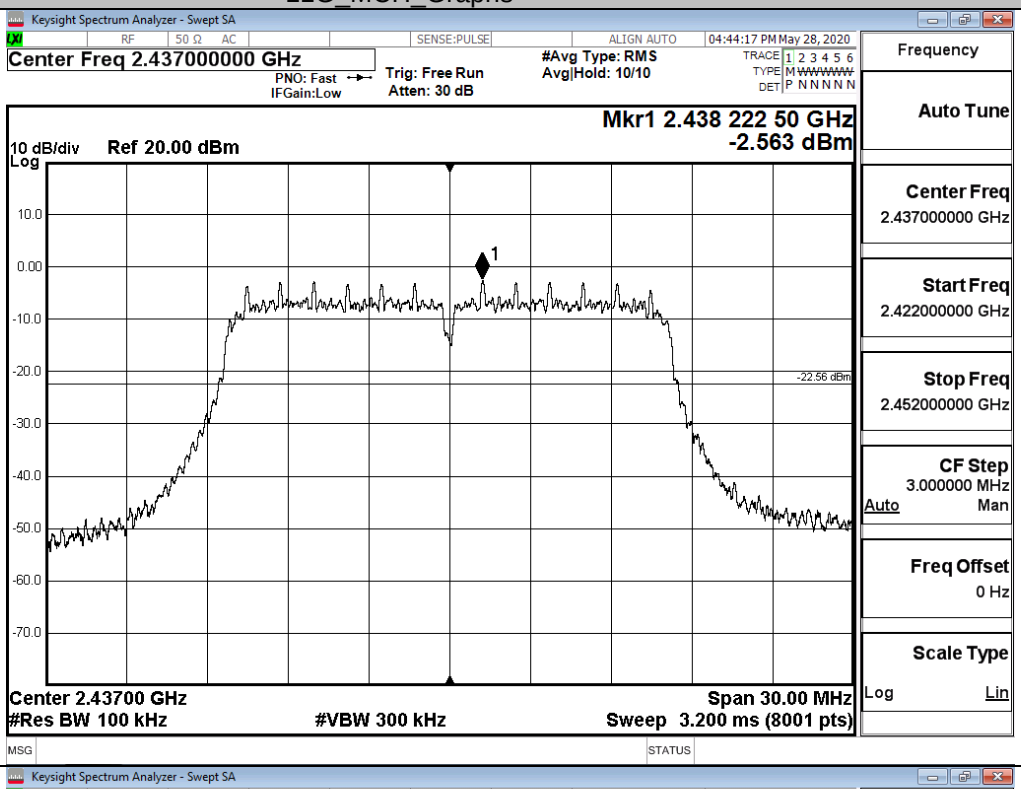
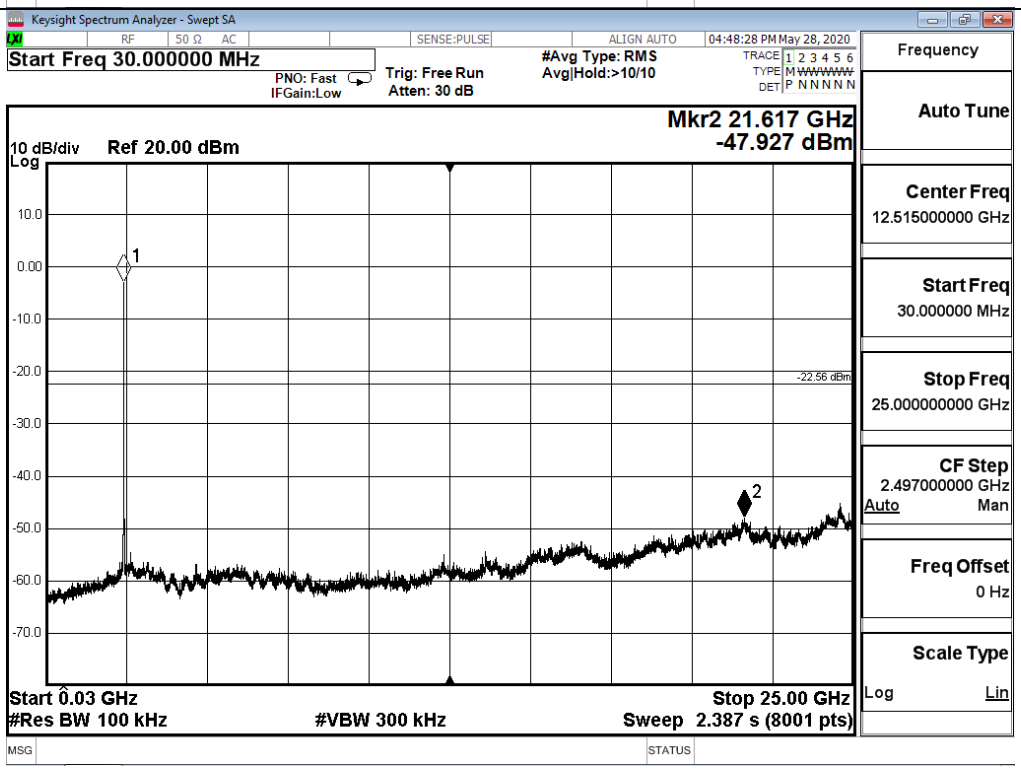
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	3.041	-48.428	-16.96	PASS
	MCH	0.661	-47.429	-19.34	PASS
	HCH	-1.595	-48.622	-21.00	PASS
11G	LCH	-0.426	-48.952	-20.43	PASS
	MCH	-2.563	-47.927	-22.56	PASS
	HCH	-4.946	-48.766	-24.95	PASS
11N20 SISO	LCH	-0.355	-48.930	-20.36	PASS
	MCH	-2.570	-48.635	-22.57	PASS
	HCH	-4.968	-49.123	-24.97	PASS

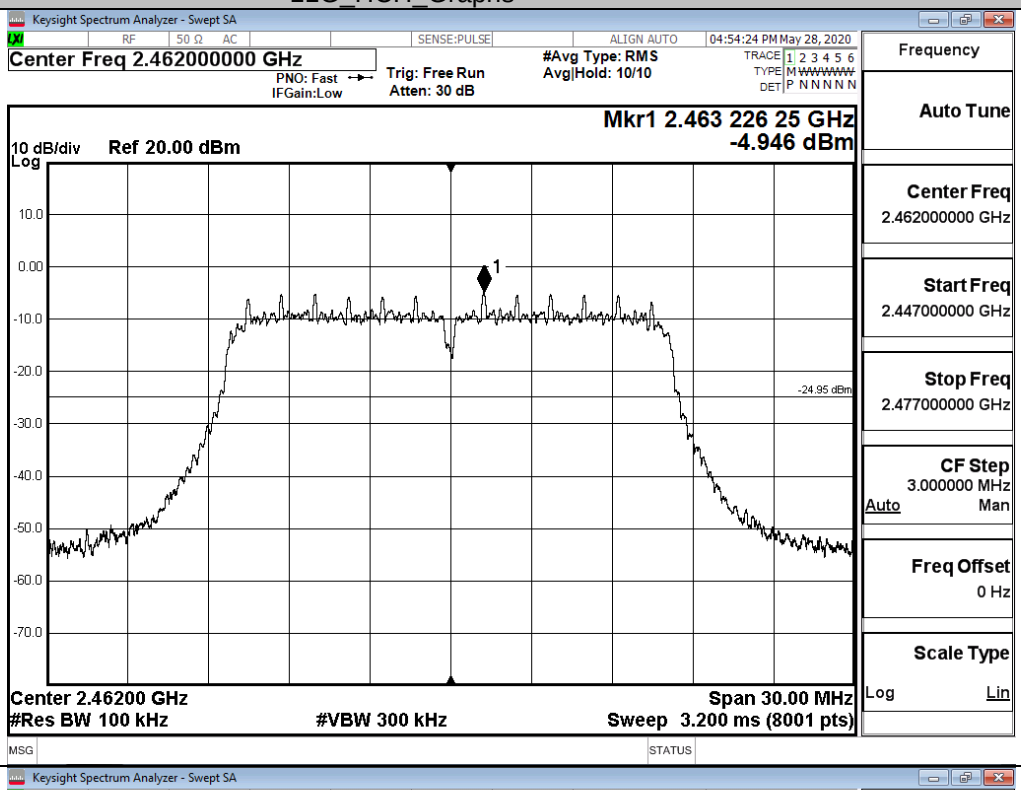
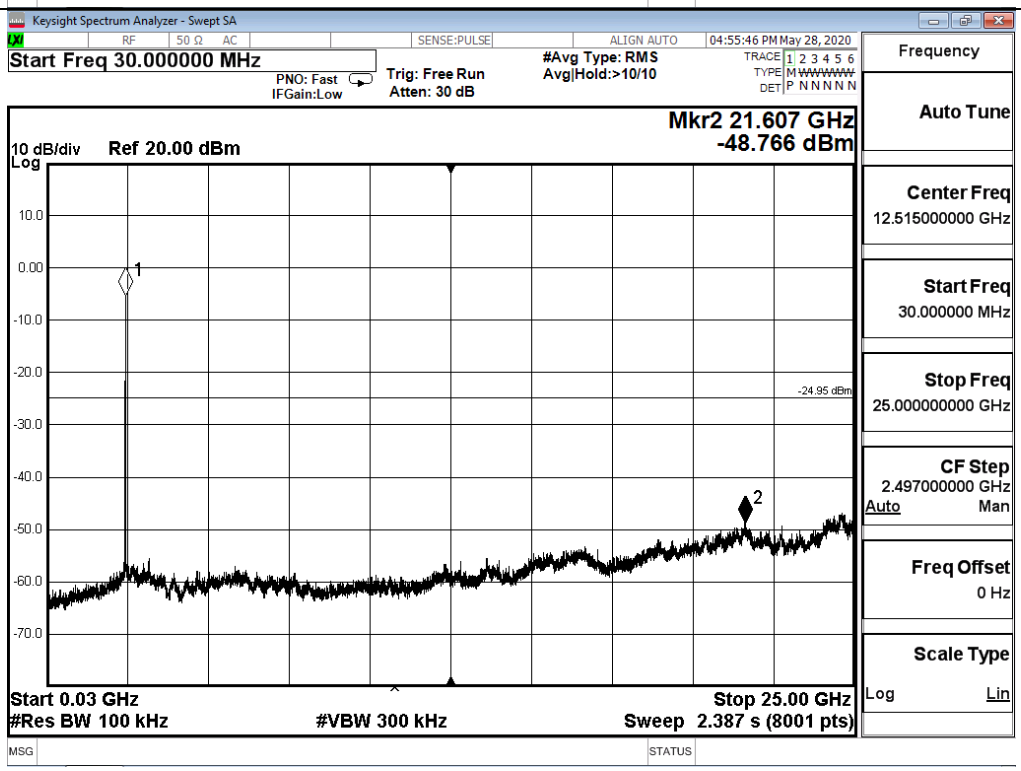
11B_LCH_Graphs	
Pref/11B/LCH	
Puw/11B/LCH	

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	

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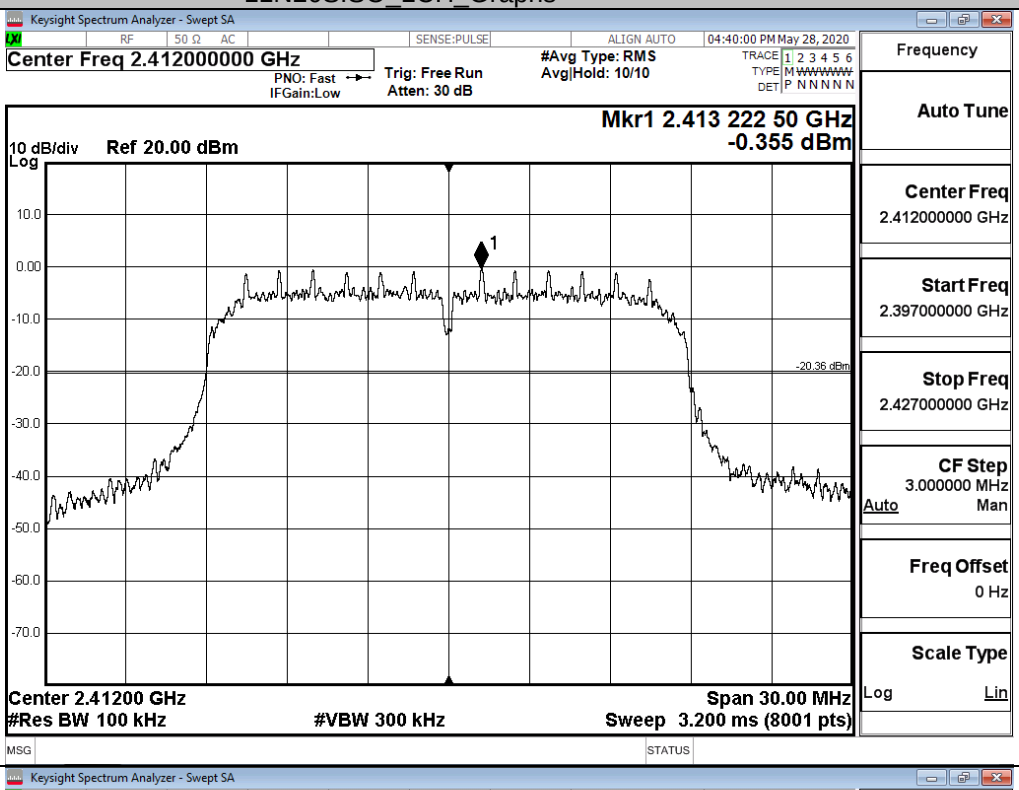
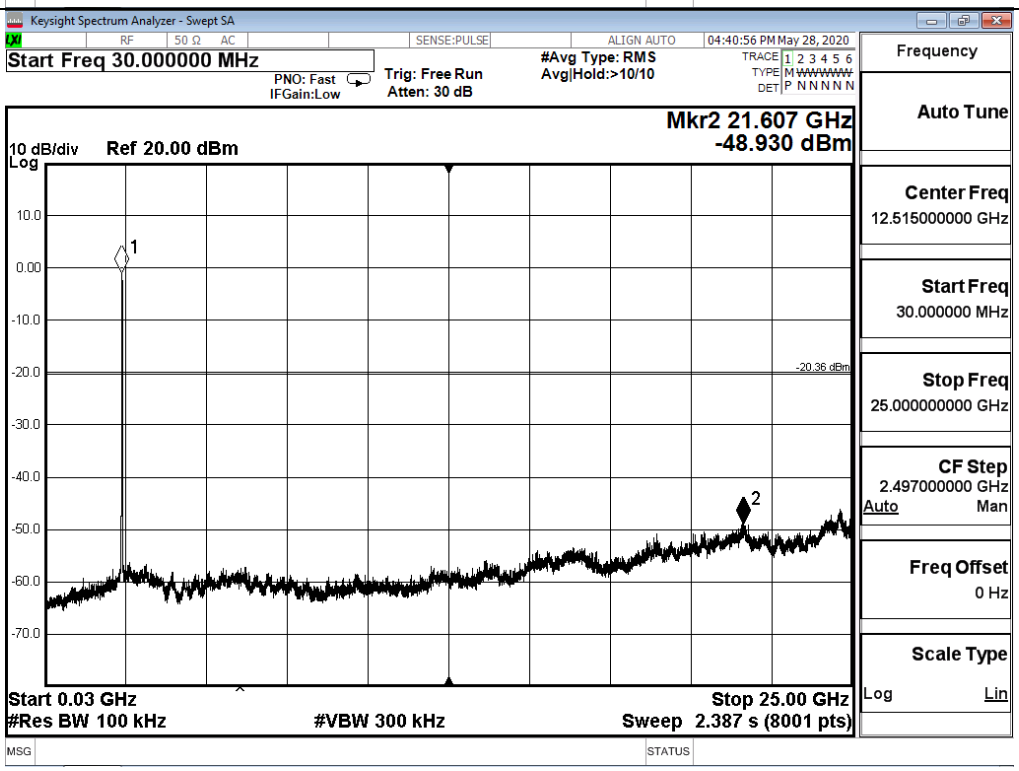
Pref/11N20SISO/LCH	
Puw/11N20 SISO/LCH	

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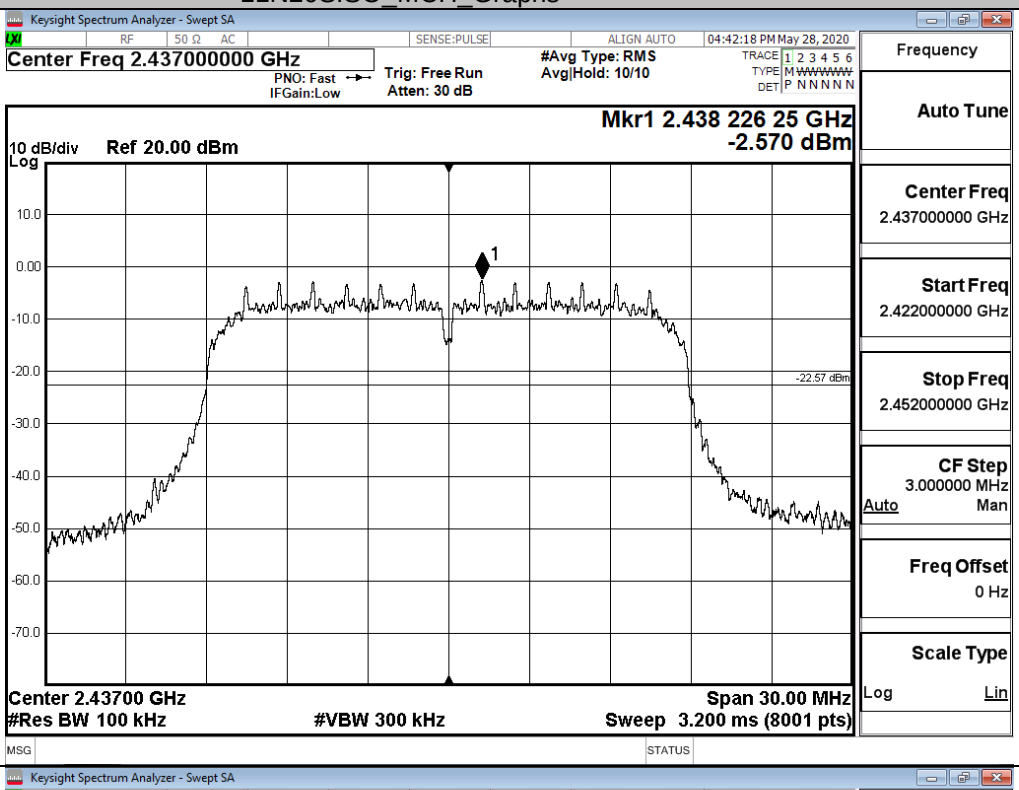
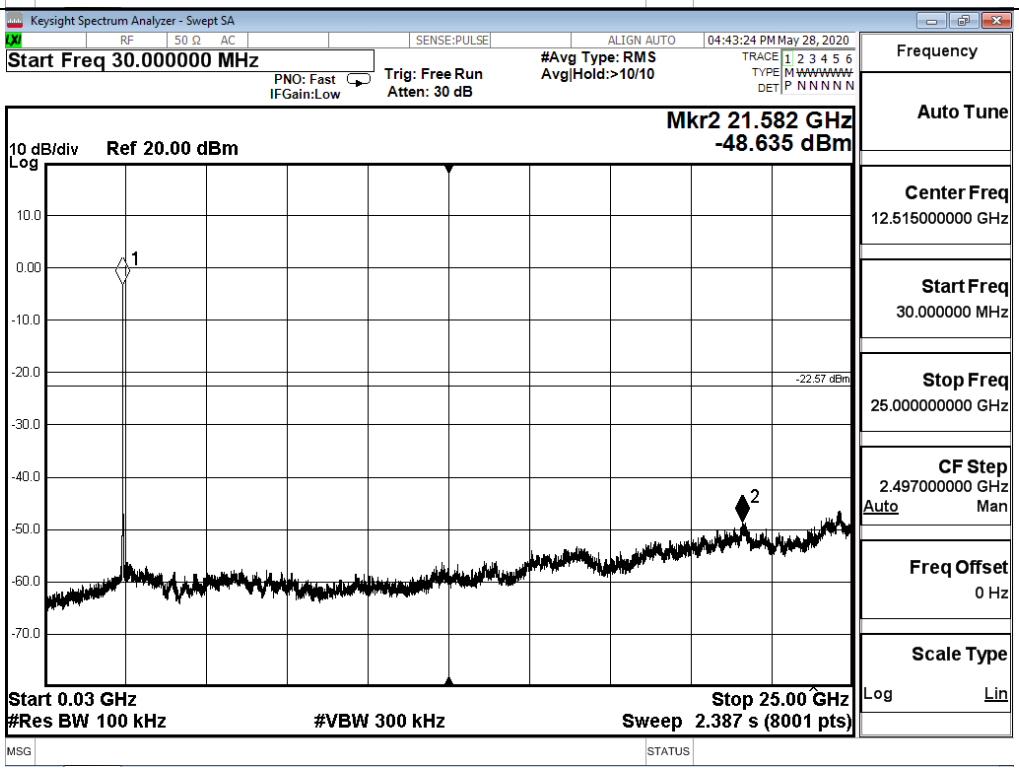
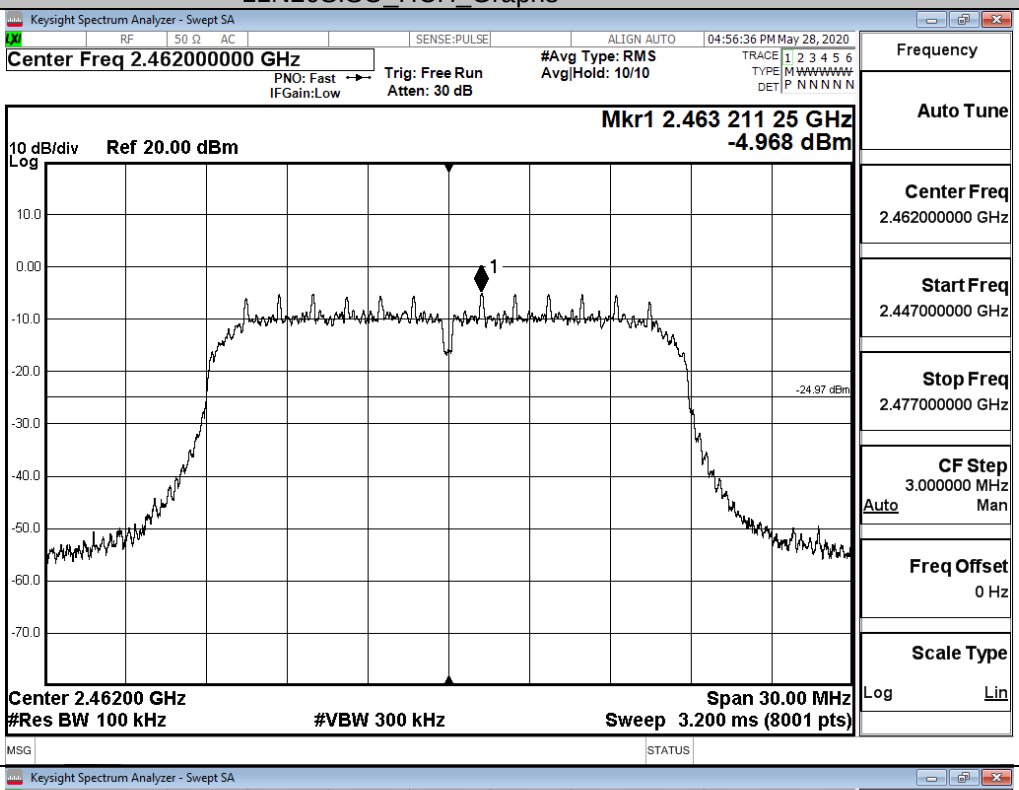
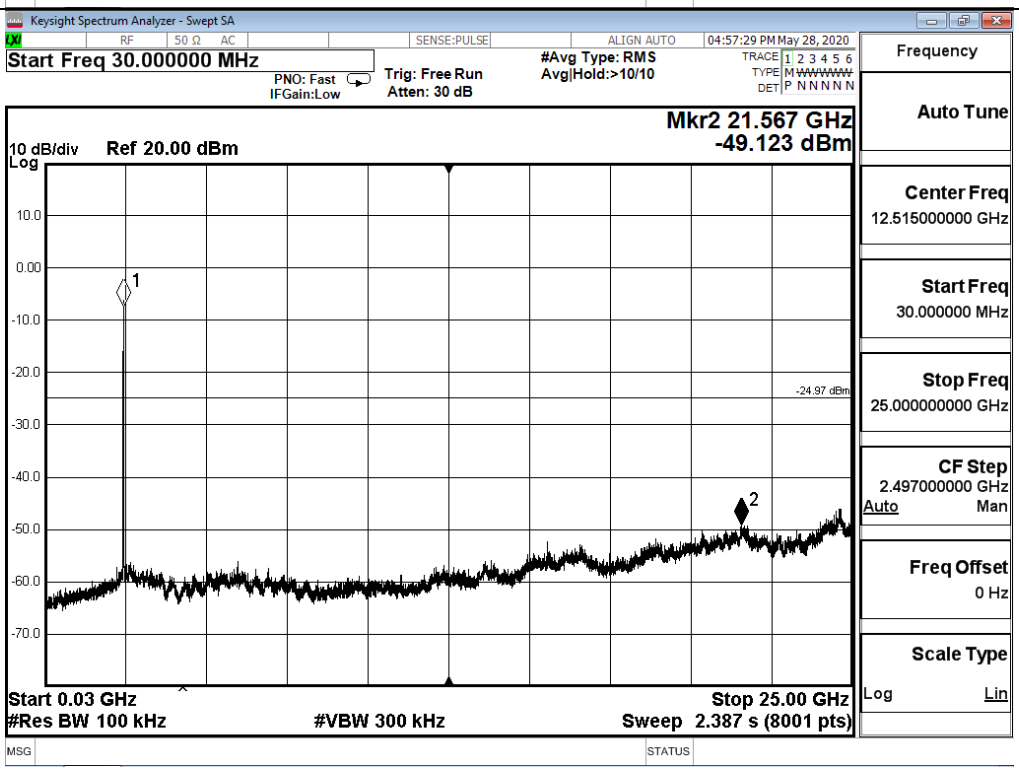
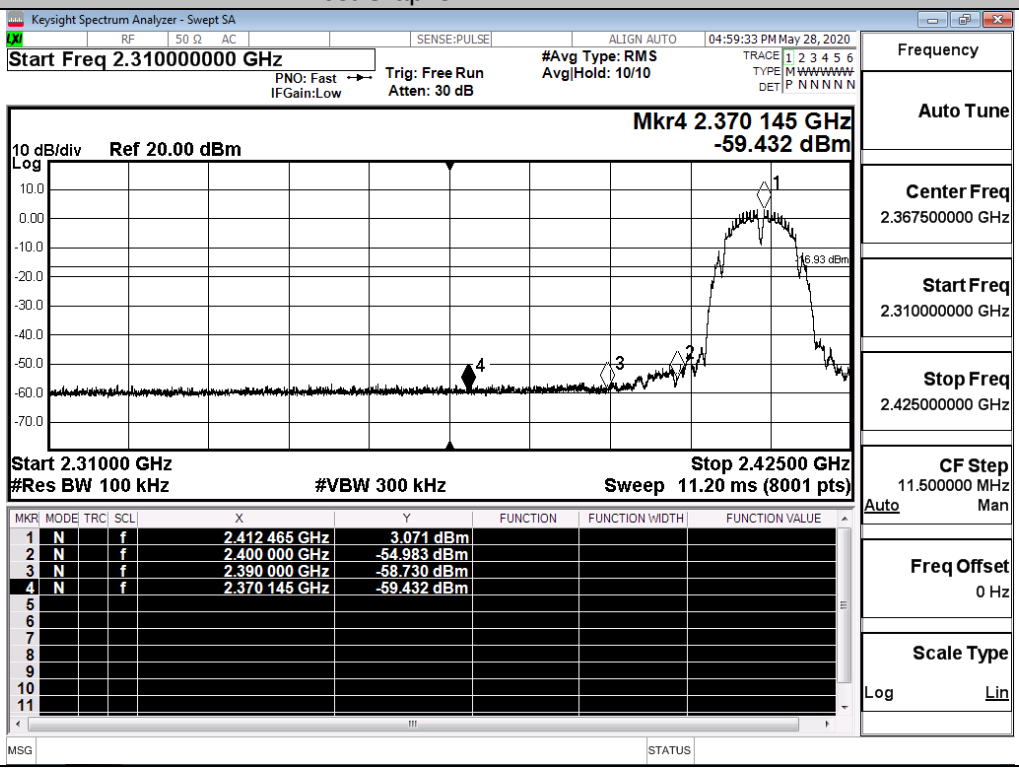
Pref/11N20 SISO/MCH	
Puw/11N20 SISO/MCH	

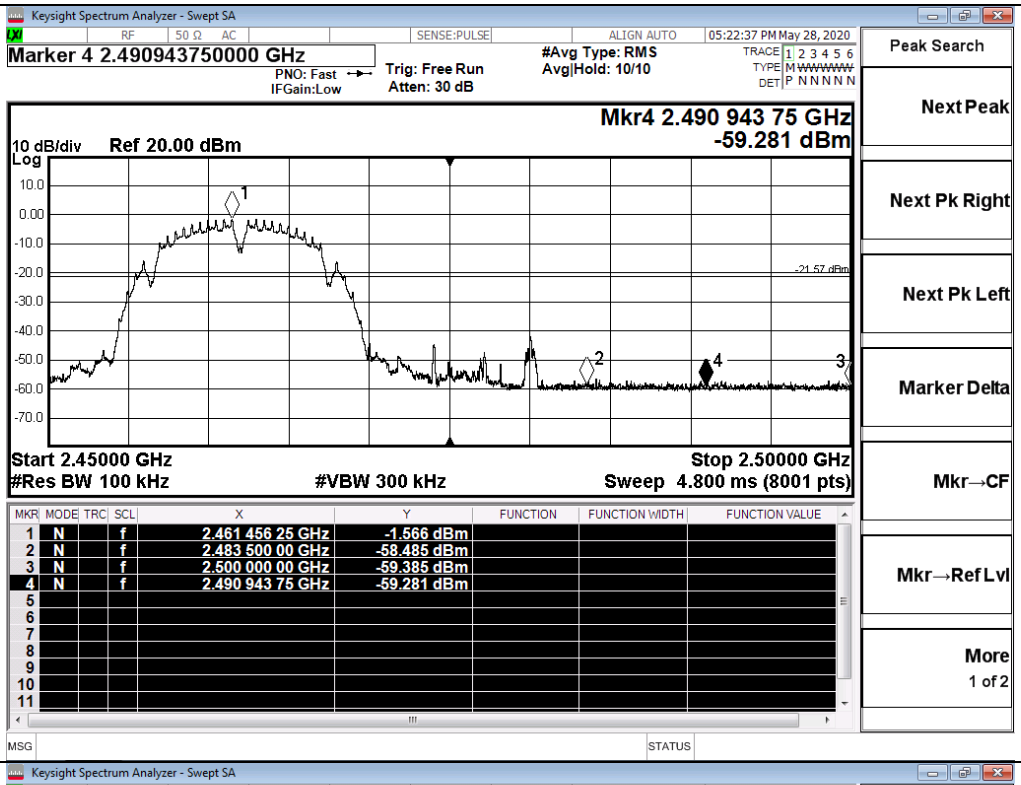
11N20SISO_HCH_Graphs	
Pref/11N20 SISO/HCH	
Puw/11N20 SISO/HCH	

A.7 Band-edge for RF Conducted Emissions

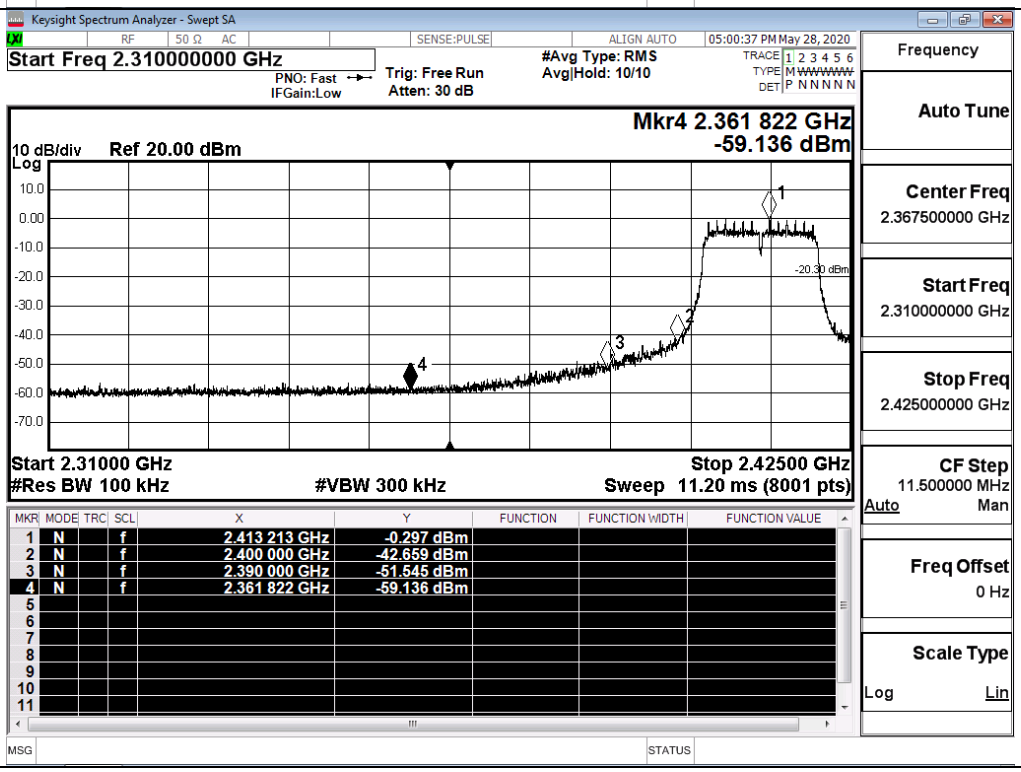
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	3.071	-59.432	-16.93	PASS
	HCH	-1.566	-59.281	-21.57	PASS
11G	LCH	-0.297	-59.136	-20.30	PASS
	HCH	-3.575	-55.992	-23.58	PASS
11N20SISO	LCH	-0.196	-56.280	-20.20	PASS
	HCH	-5.007	-56.569	-25.01	PASS

Test Graphs	
11B/LCH	

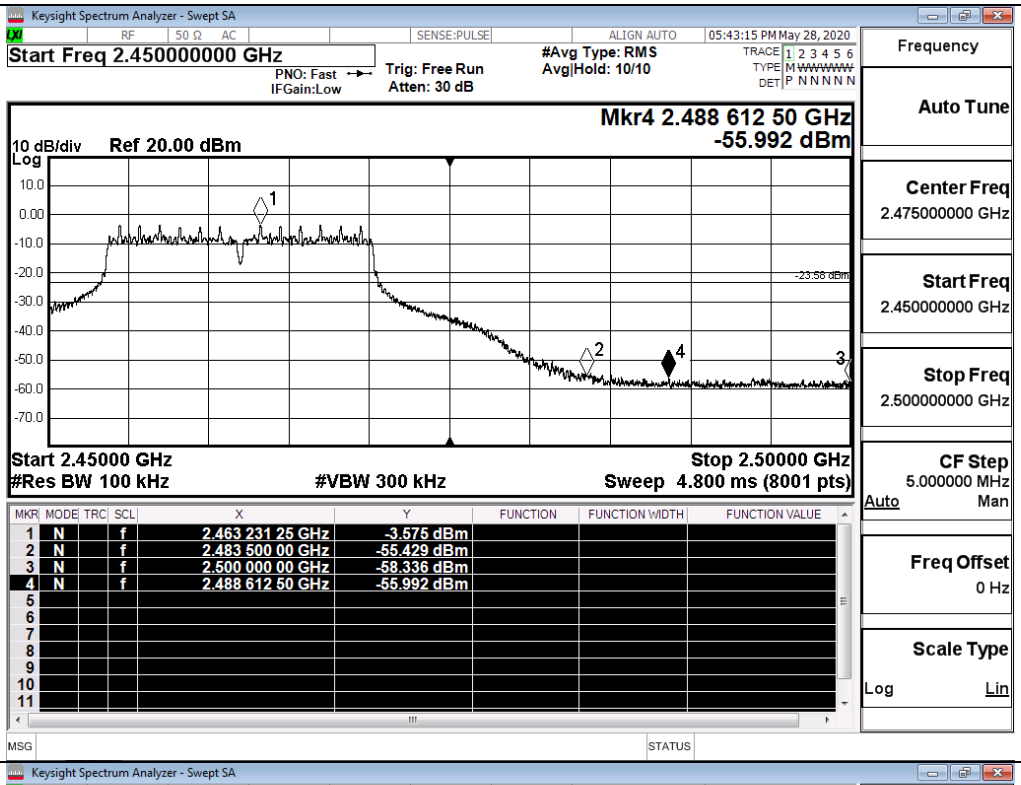
11B/HCH



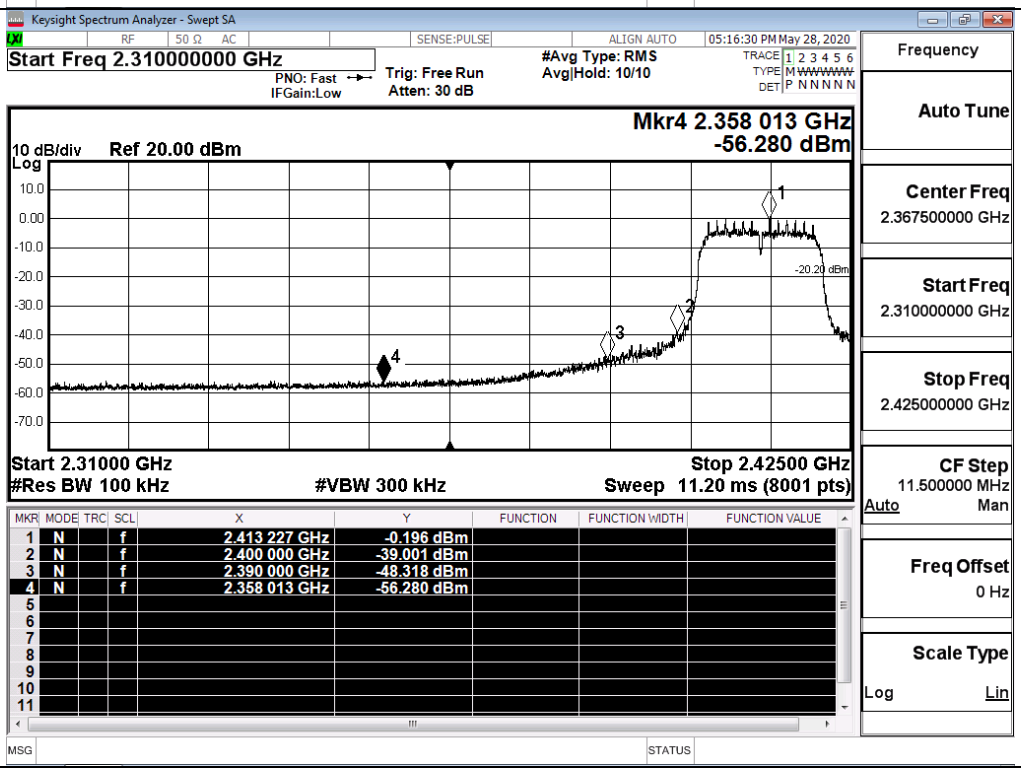
11G/LCH



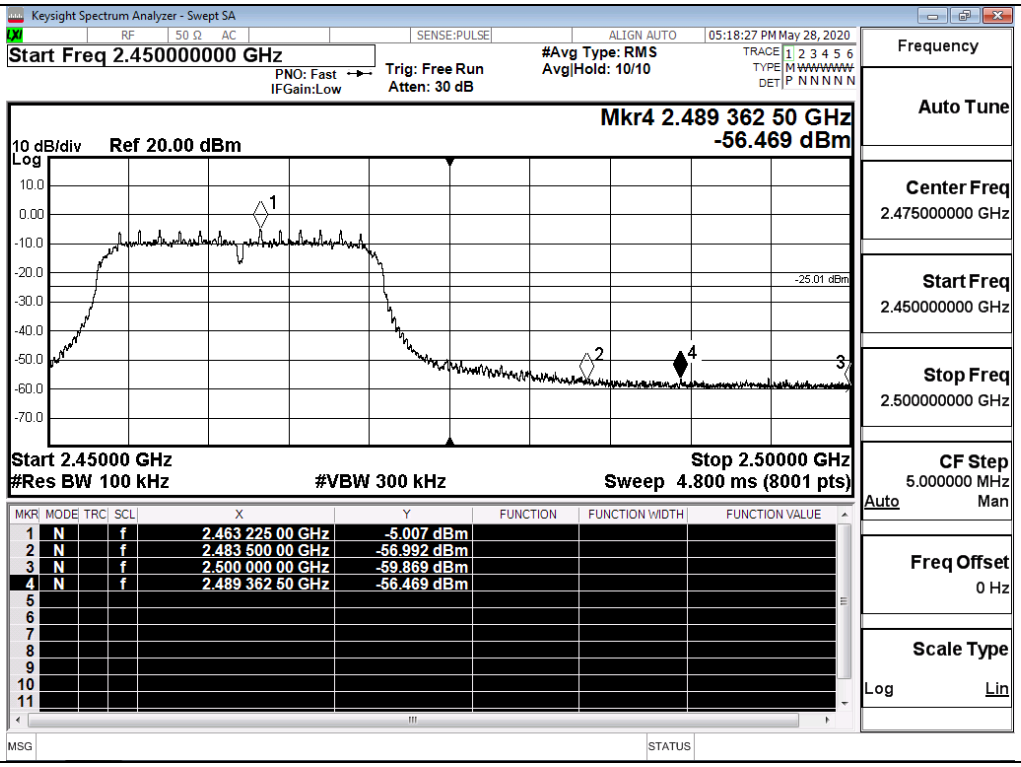
11G/HCH



11N20SISO/LCH



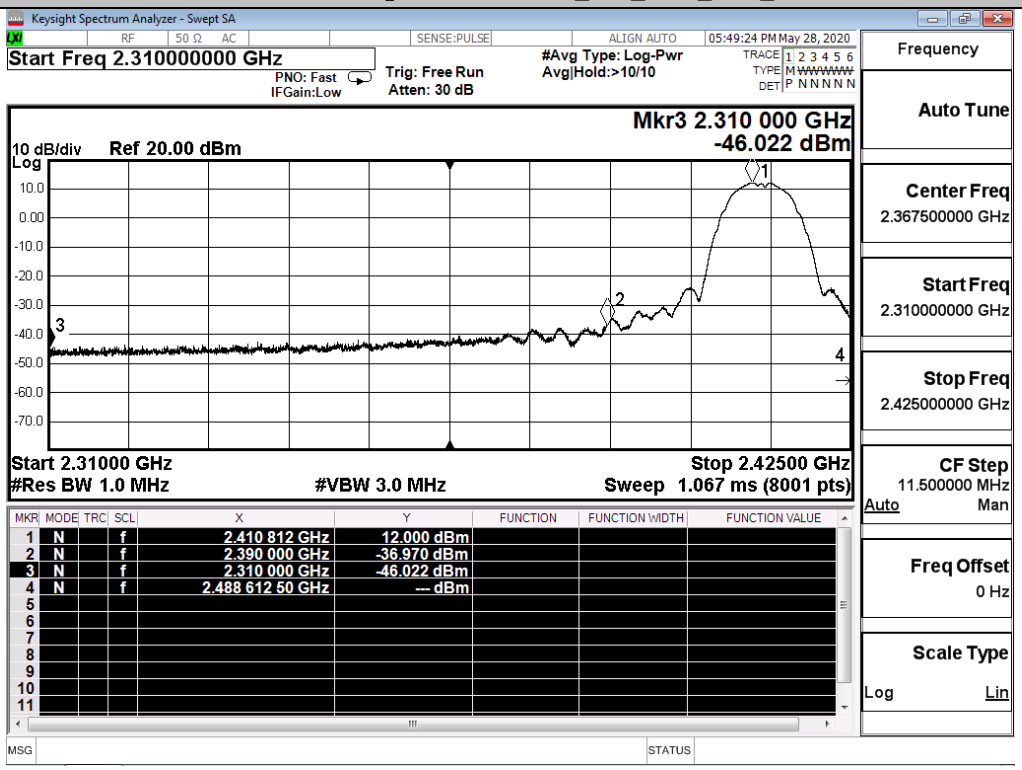
11N20SISO/HCH



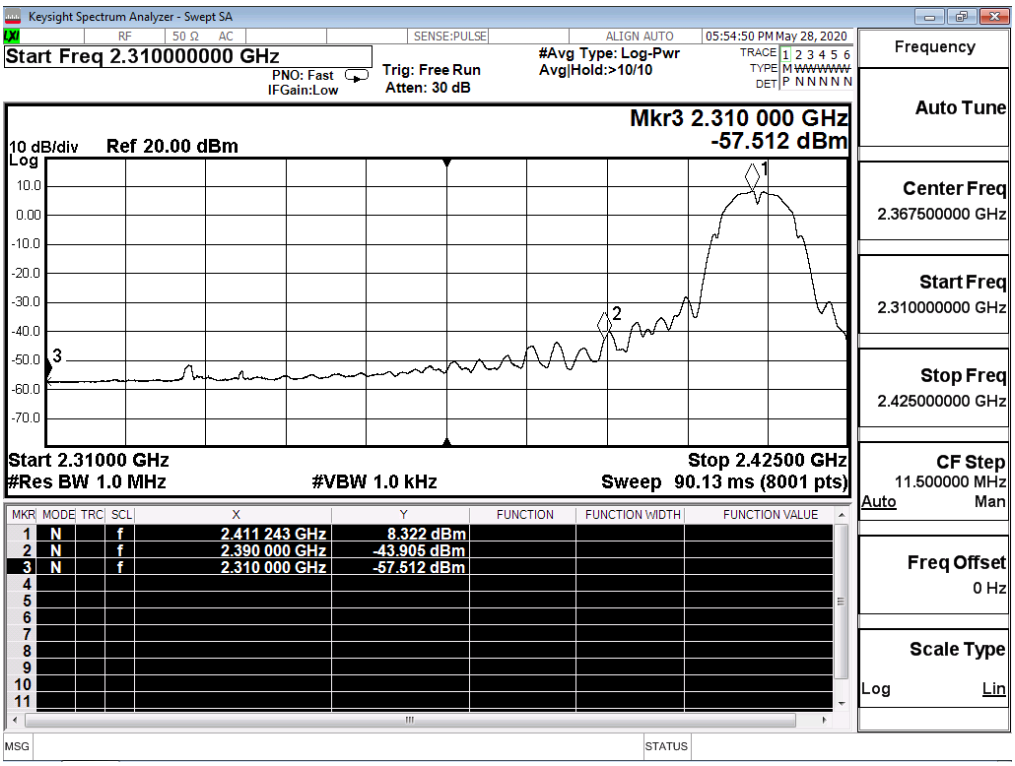
A.8 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-46.022	2.5	0	51.74	PEAK	74	PASS
	2412	Ant1	2310.0	-57.512	2.5	0	40.25	AV	54	PASS
	2412	Ant1	2390.0	-36.970	2.5	0	60.79	PEAK	74	PASS
	2412	Ant1	2390.0	-43.905	2.5	0	53.86	AV	54	PASS
	2462	Ant1	2483.5	-46.025	2.5	0	51.74	PEAK	74	PASS
	2462	Ant1	2483.5	-55.637	2.5	0	42.12	AV	54	PASS
	2462	Ant1	2500.0	-46.287	2.5	0	51.47	PEAK	74	PASS
	2462	Ant1	2500.0	-56.170	2.5	0	41.59	AV	54	PASS
11G	2412	Ant1	2310.0	-47.194	2.5	0	50.57	PEAK	74	PASS
	2412	Ant1	2310.0	-57.585	2.5	0	40.18	AV	54	PASS
	2412	Ant1	2390.0	-24.480	2.5	0	73.28	PEAK	74	PASS
	2412	Ant1	2390.0	-44.279	2.5	0	53.48	AV	54	PASS
	2462	Ant1	2483.5	-25.673	2.5	0	72.09	PEAK	74	PASS
	2462	Ant1	2483.5	-44.864	2.5	0	52.90	AV	54	PASS
	2462	Ant1	2500.0	-37.674	2.5	0	60.09	PEAK	74	PASS
	2462	Ant1	2500.0	-54.219	2.5	0	43.54	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-46.463	2.5	0	51.30	PEAK	74	PASS
	2412	Ant1	2310.0	-57.582	2.5	0	40.18	AV	54	PASS
	2412	Ant1	2390.0	-24.533	2.5	0	73.23	PEAK	74	PASS
	2412	Ant1	2390.0	-44.031	2.5	0	53.73	AV	54	PASS
	2462	Ant1	2483.5	-23.957	2.5	0	73.80	PEAK	74	PASS
	2462	Ant1	2483.5	-44.950	2.5	0	52.81	AV	54	PASS
	2462	Ant1	2500.0	-35.307	2.5	0	62.45	PEAK	74	PASS
	2462	Ant1	2500.0	-54.536	2.5	0	43.22	AV	54	PASS

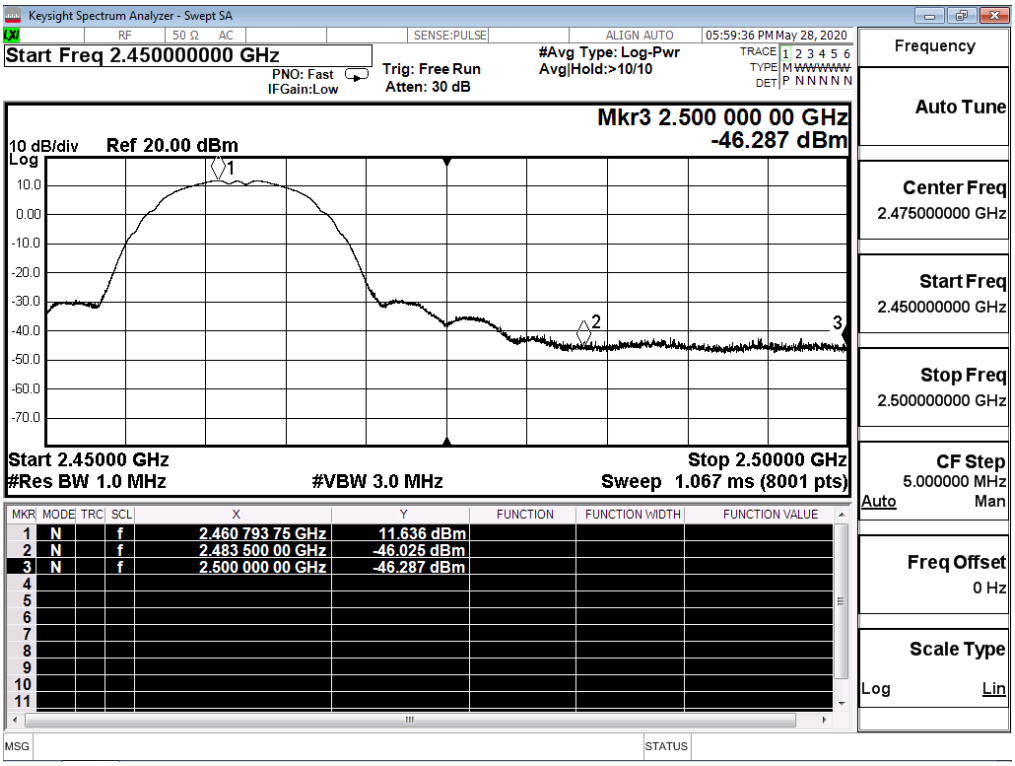
Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



Restrict-band band-edge measurements_11B_2412_Ant1_AV



Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



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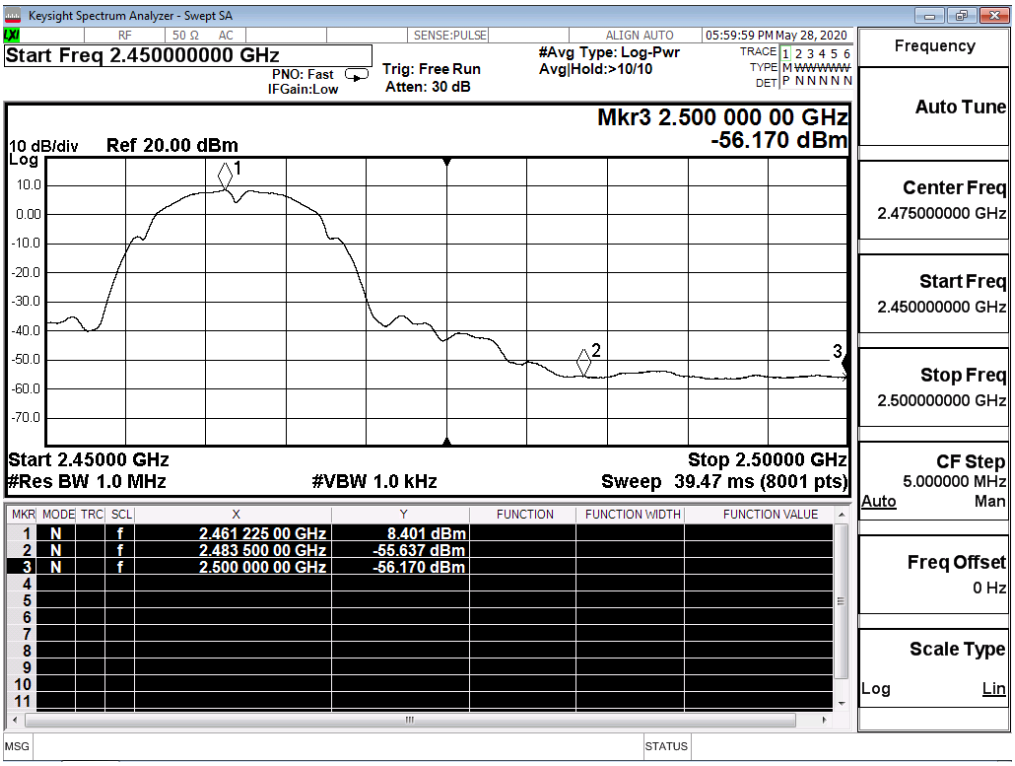

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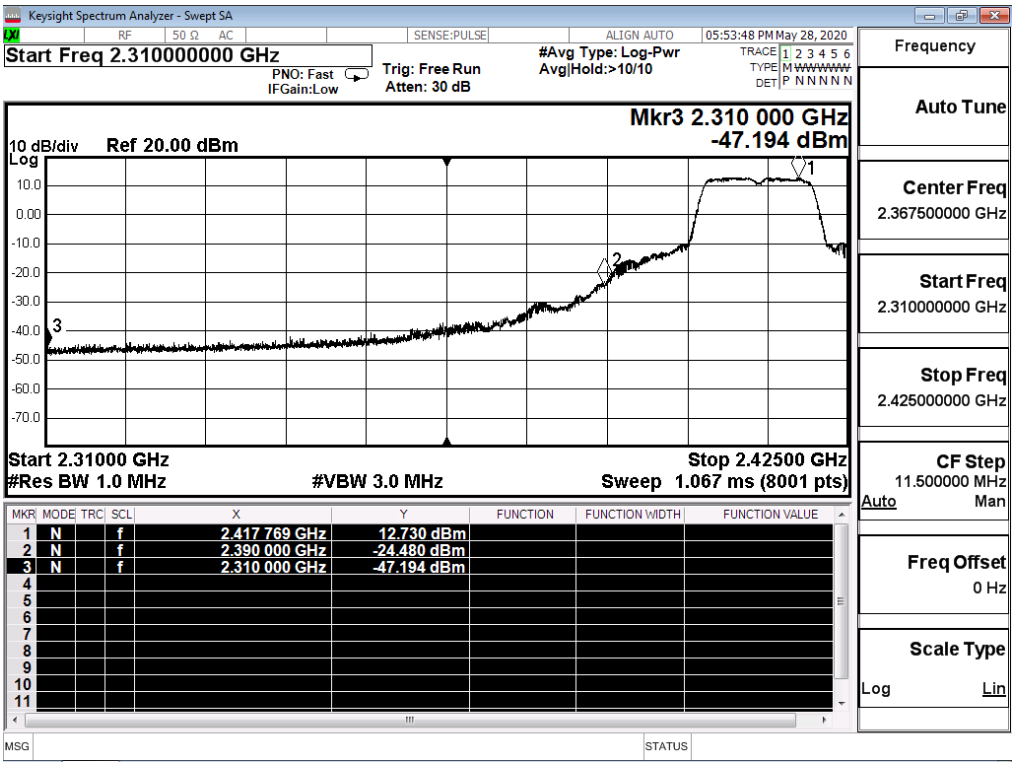

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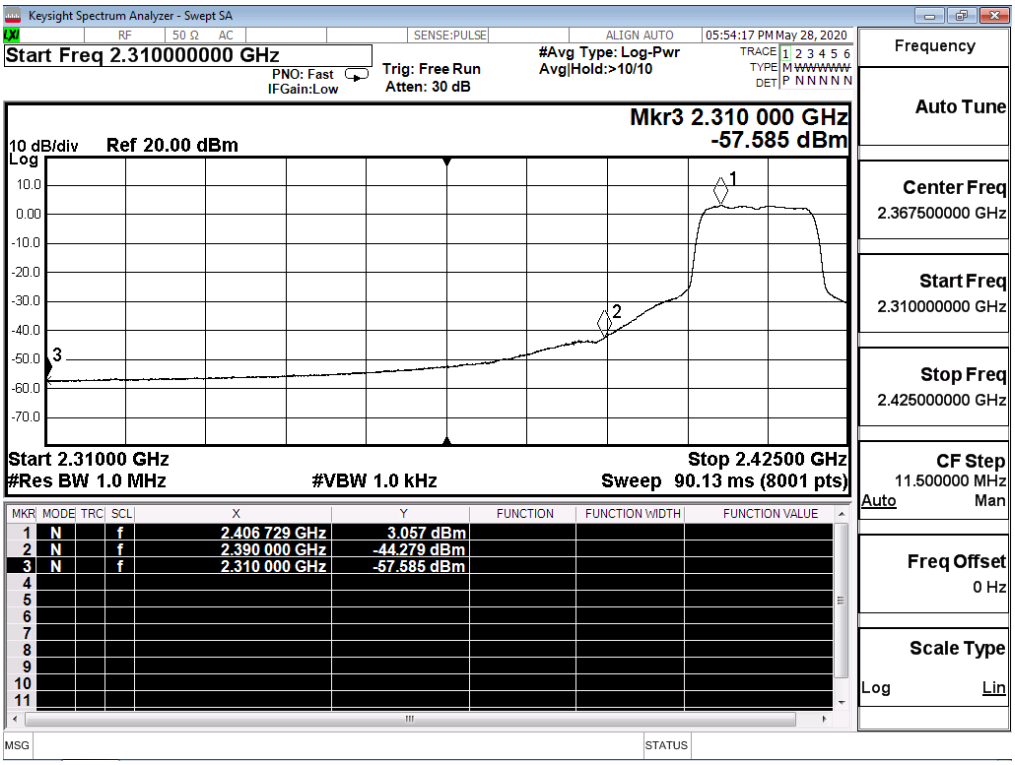

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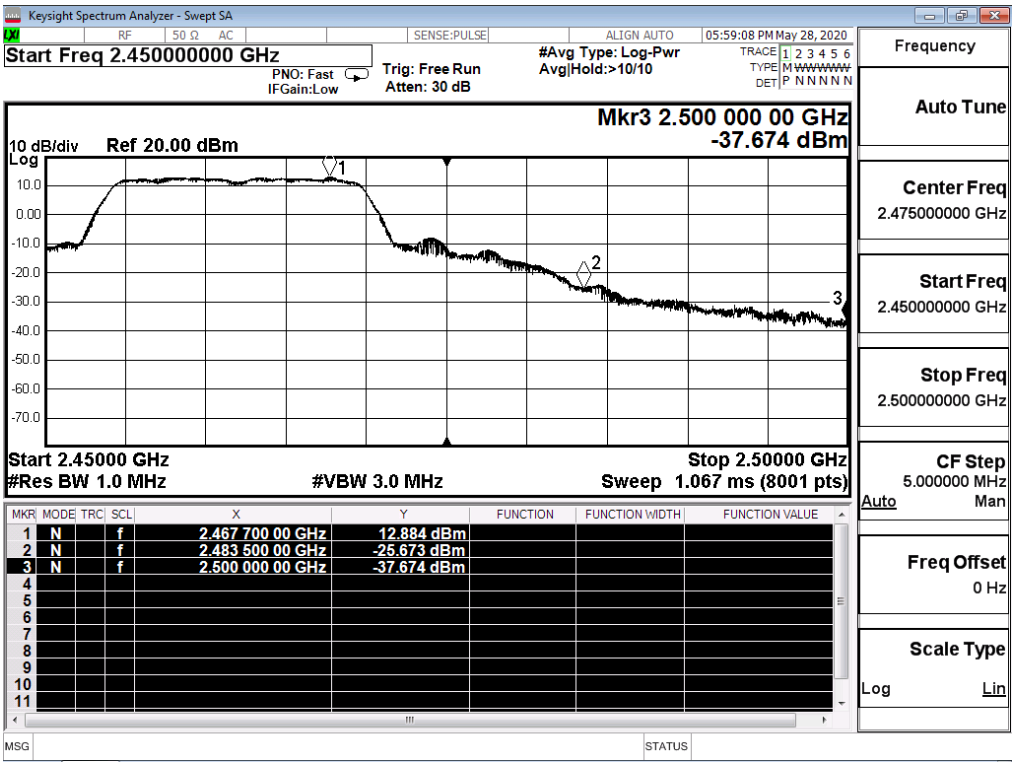

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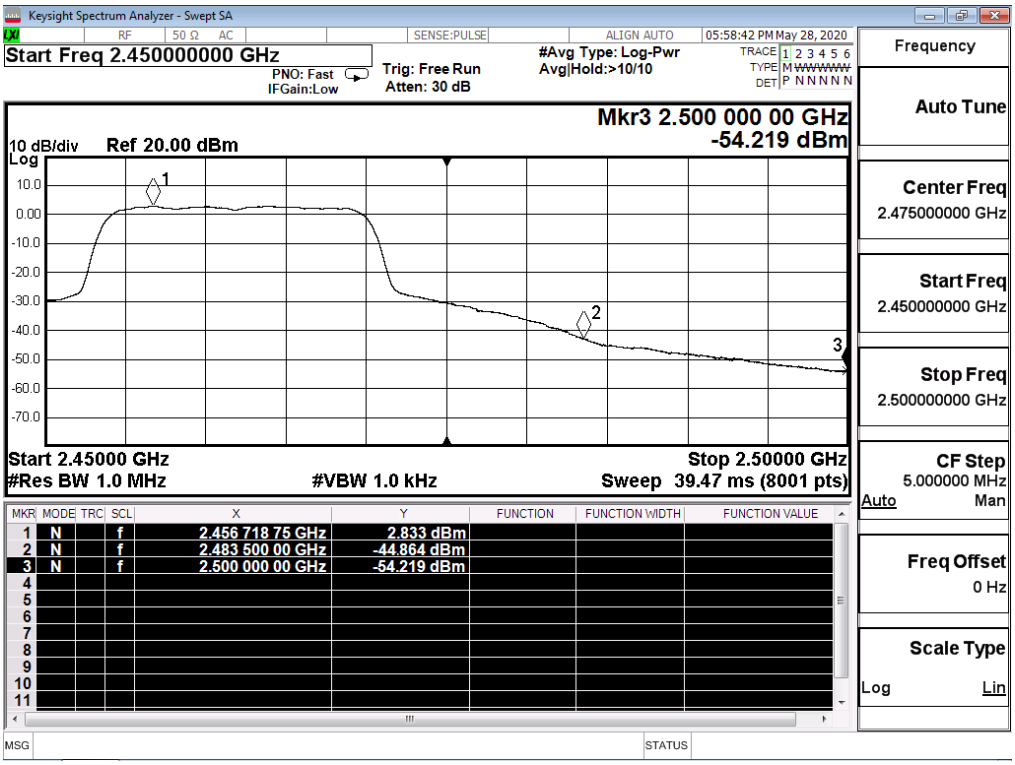

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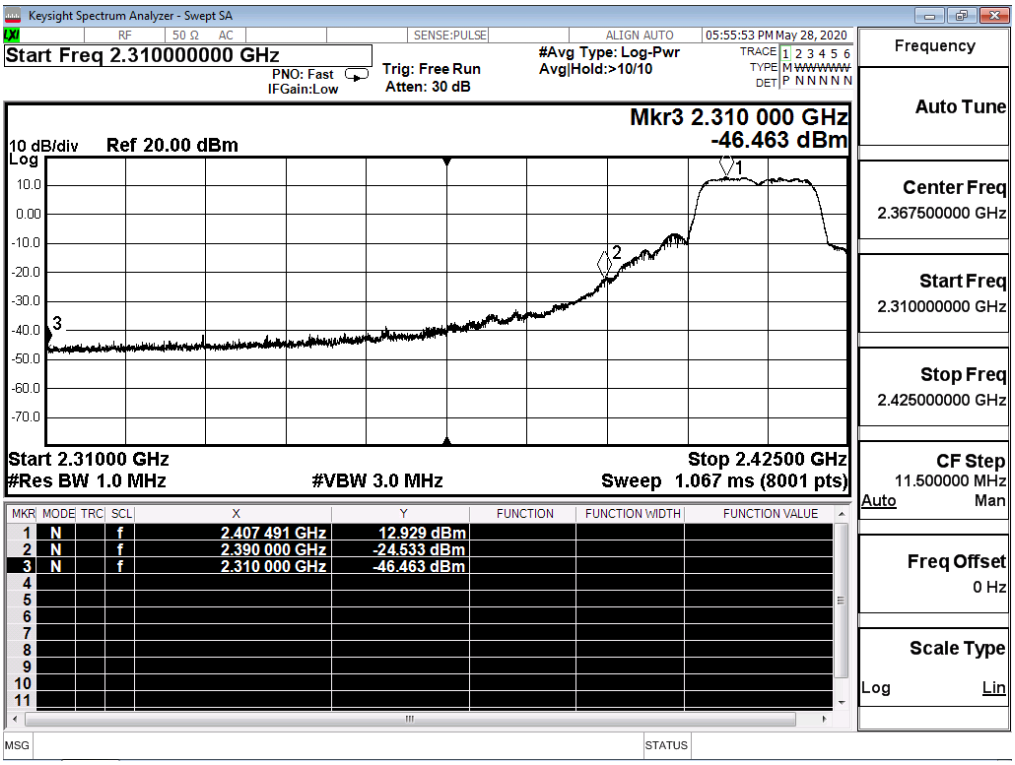

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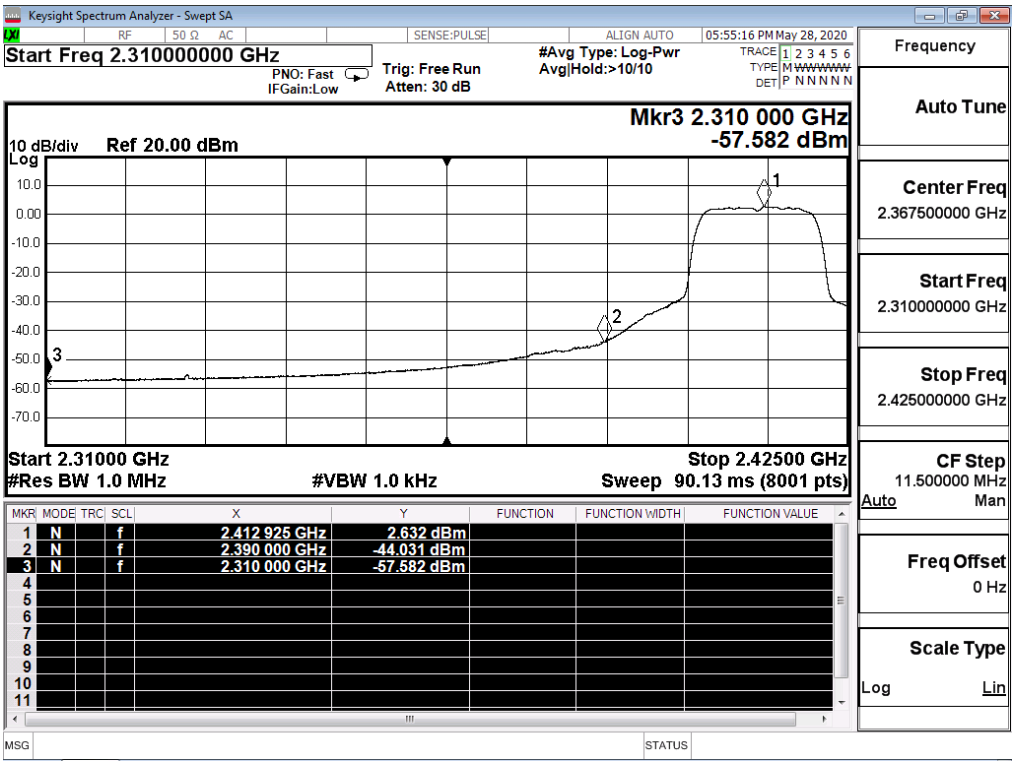

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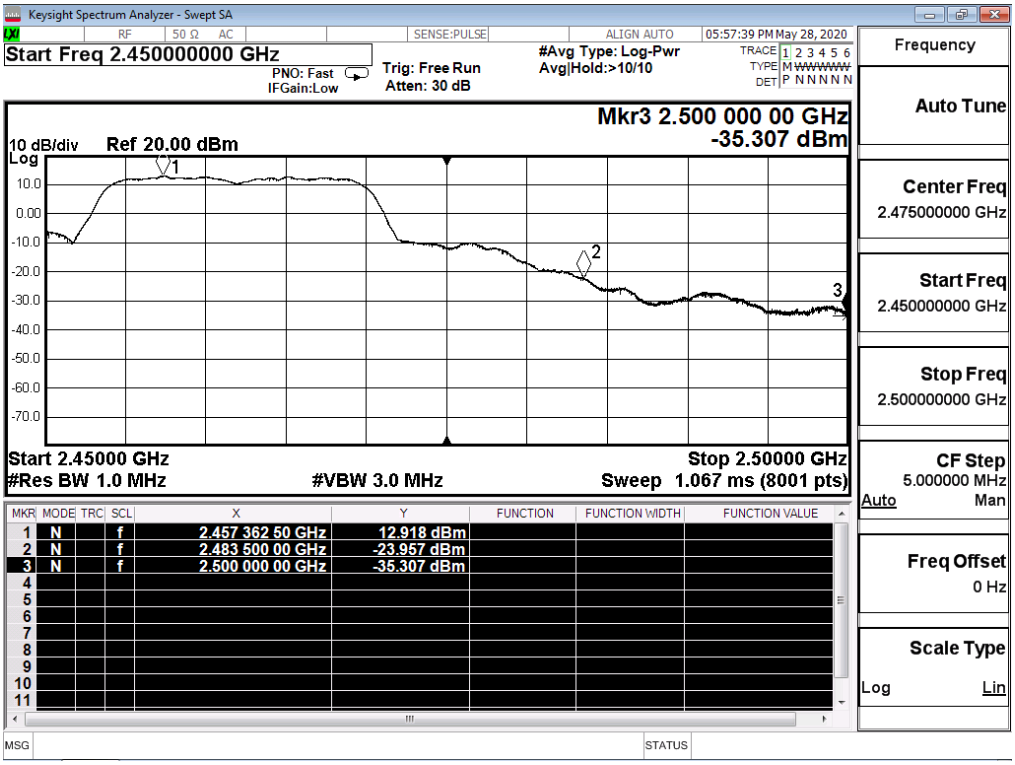
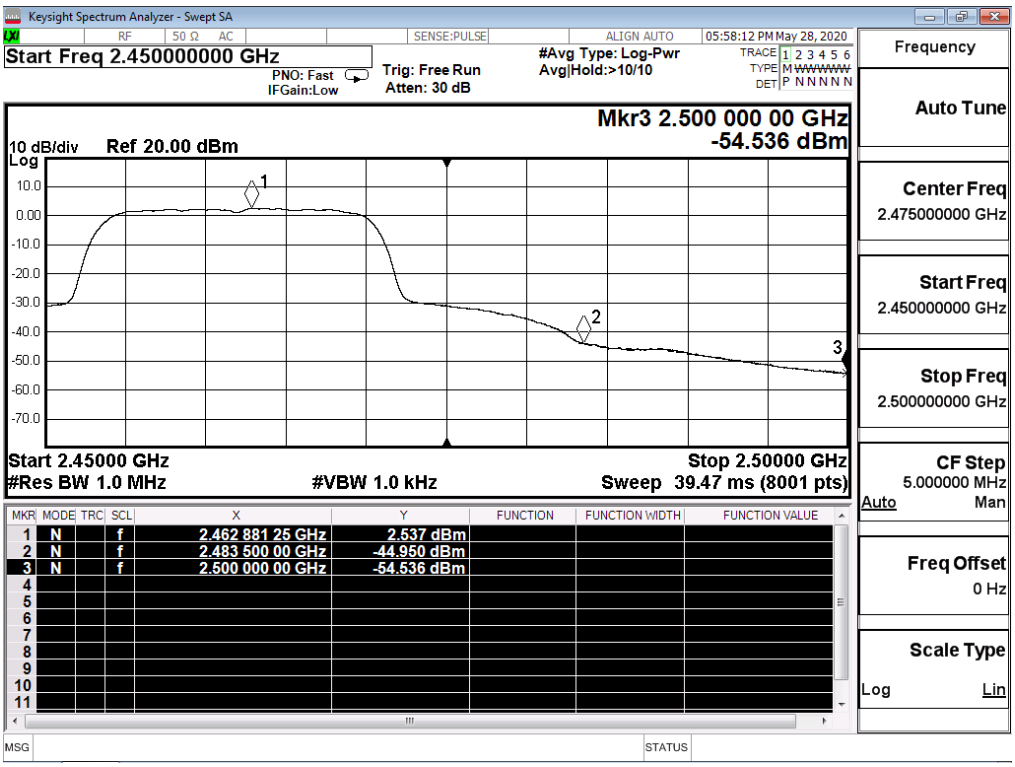
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