

Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: 4G LTE Wireless Router

Trade Mark: GL.iNET

Test Model: GL-XE300C6

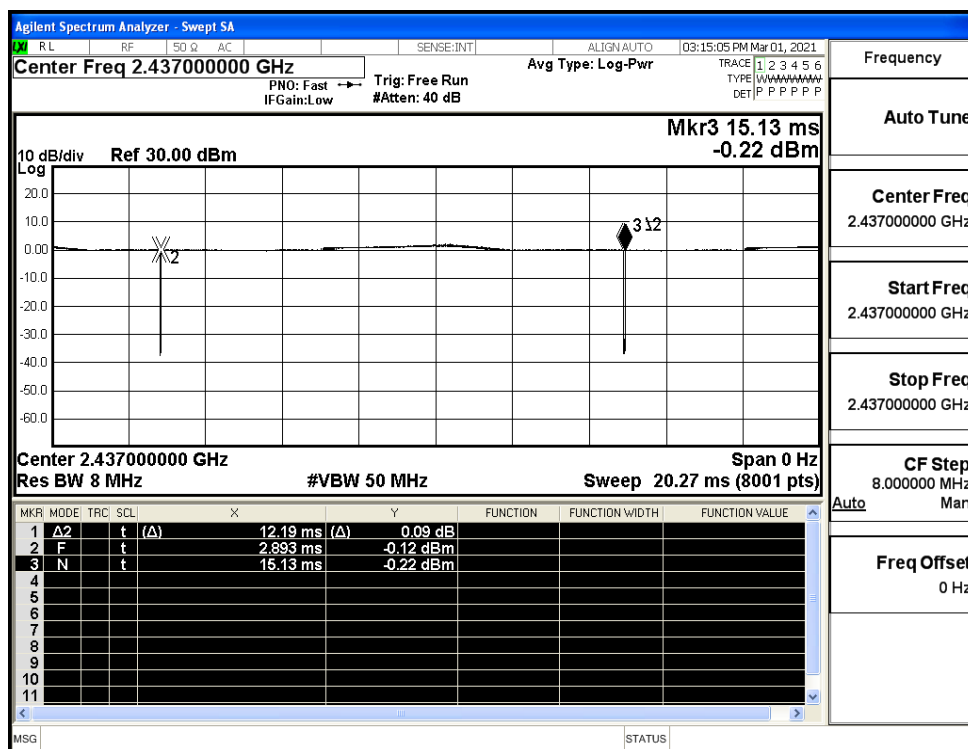
Environmental Conditions

Temperature:	24.2° C
Relative Humidity:	57.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay He
Supervised by:	Li Huan

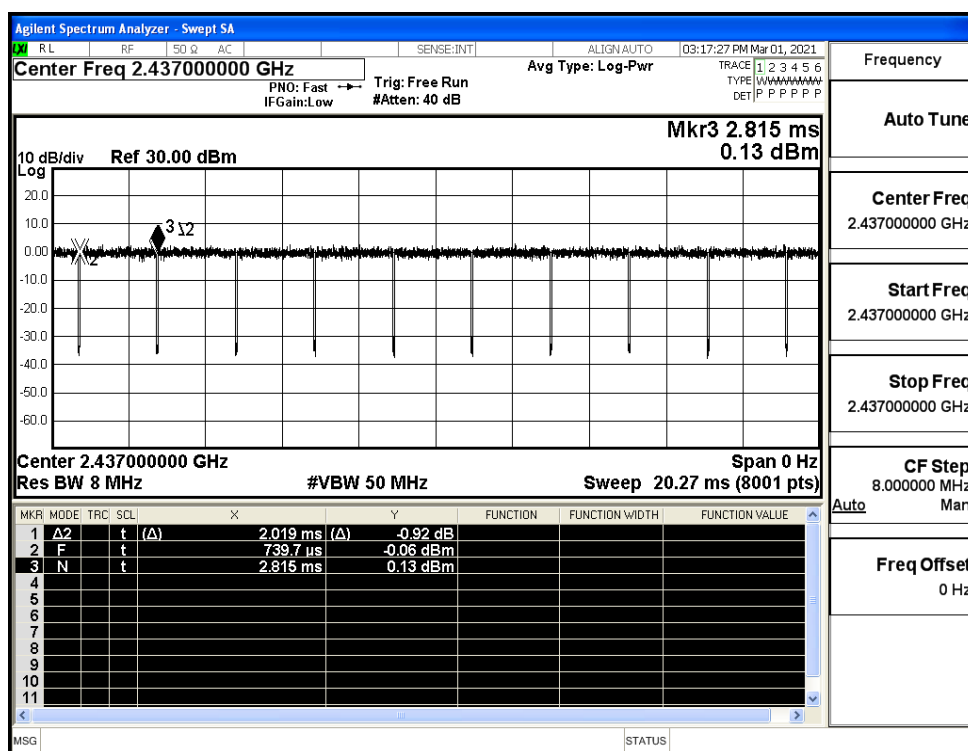
A.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	1/T Minimum VBW(KHz)
11B	2437	Ant0	99.59	/
11G	2437	Ant0	97.31	0.482
11N20SISO	2437	Ant0	97.12	0.516
11N40SISO	2437	Ant0	95.55	1.033
11B	2437	Ant1	99.59	/
11G	2437	Ant1	97.31	0.482
11N20SISO	2437	Ant1	97.12	0.515
11N40SISO	2437	Ant1	95.55	1.033

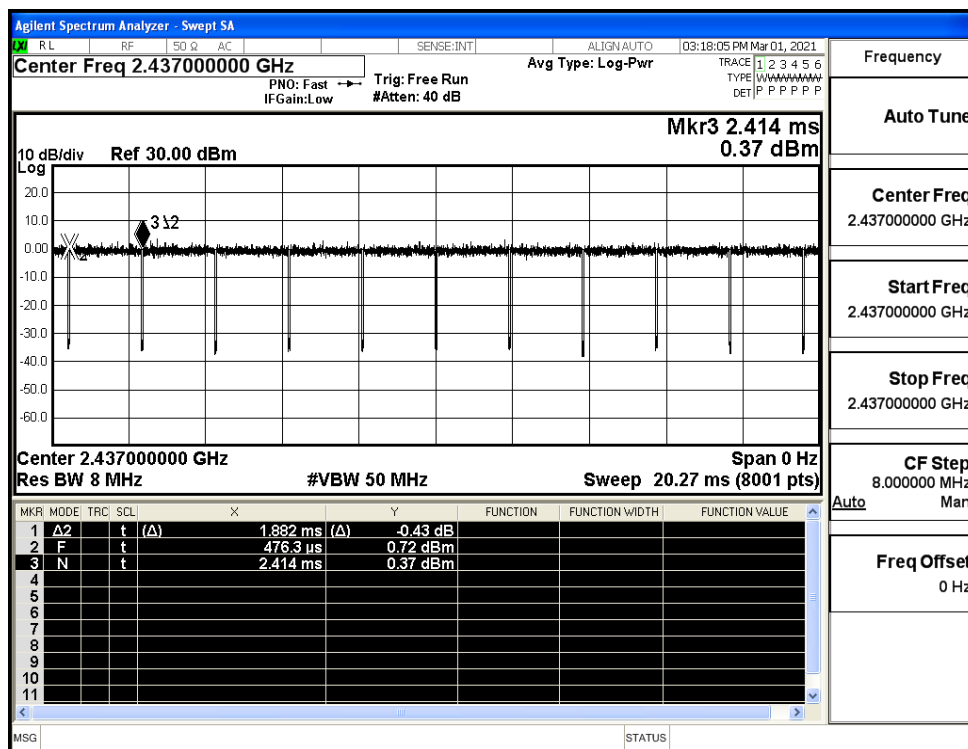
Duty Cycle_11B_2437_Ant0



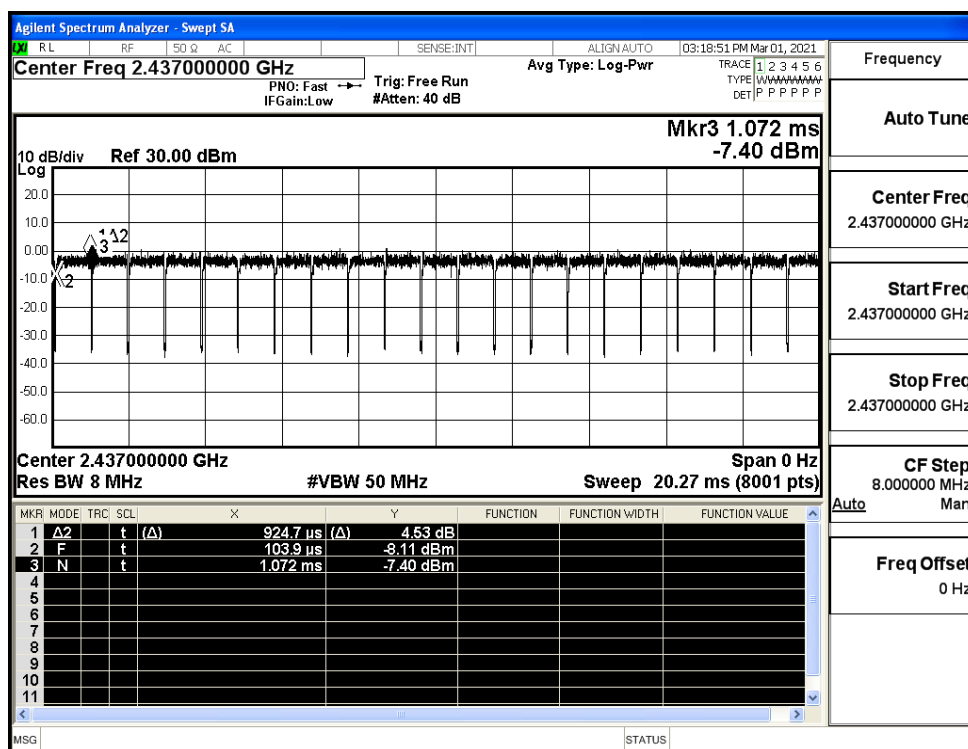
Duty Cycle_11G_2437_Ant0



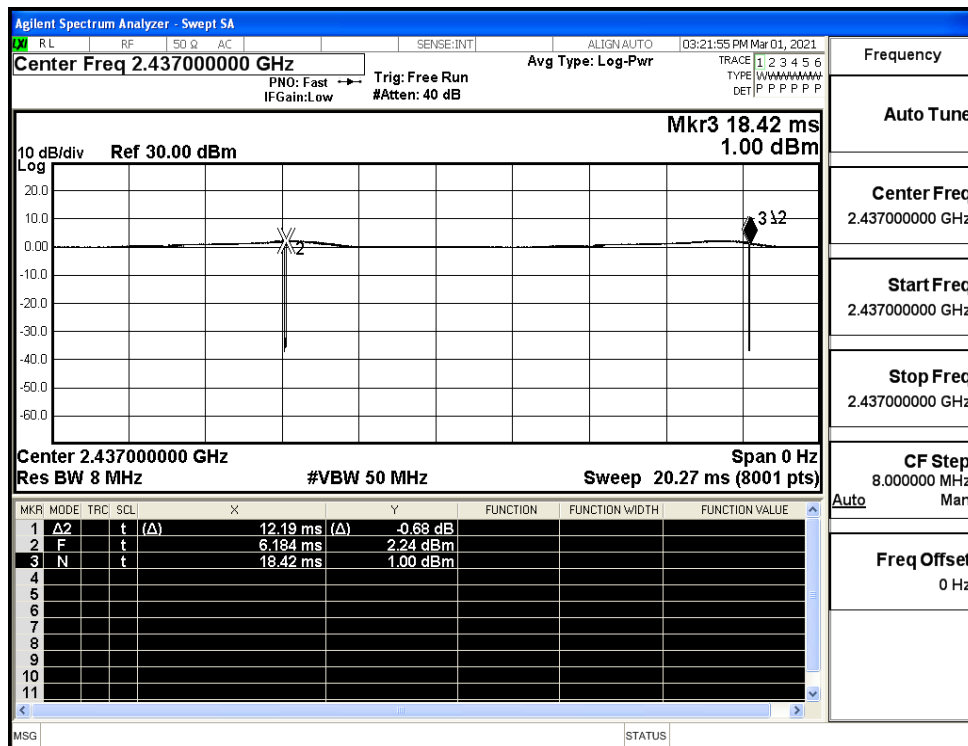
Duty Cycle_11N20SISO_2437_Ant0



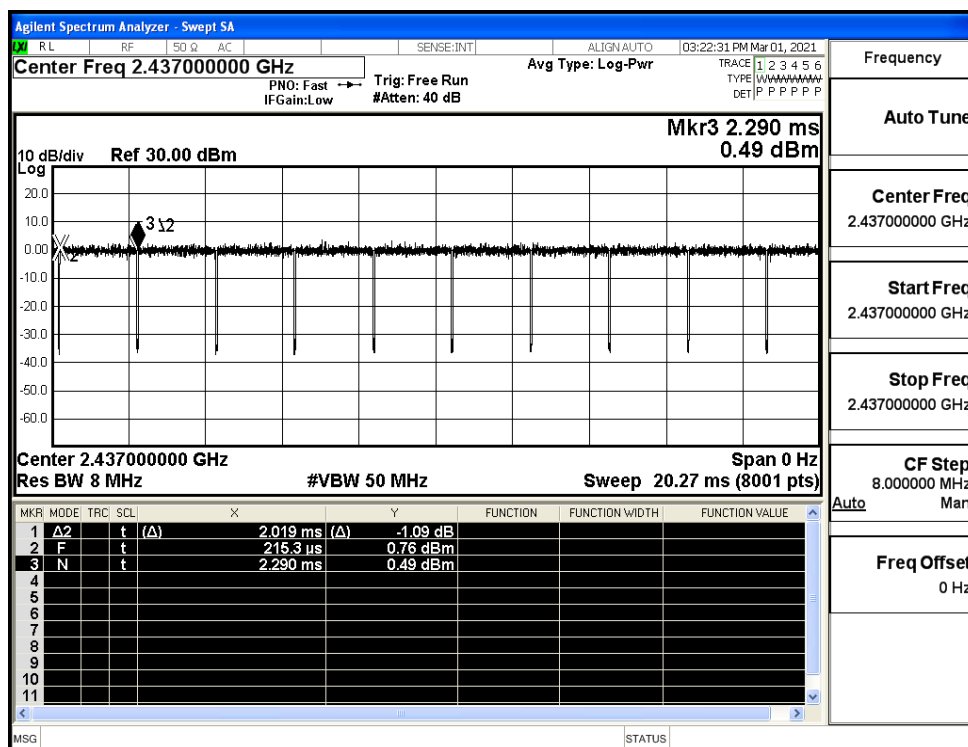
Duty Cycle_11N40SISO_2437_Ant0



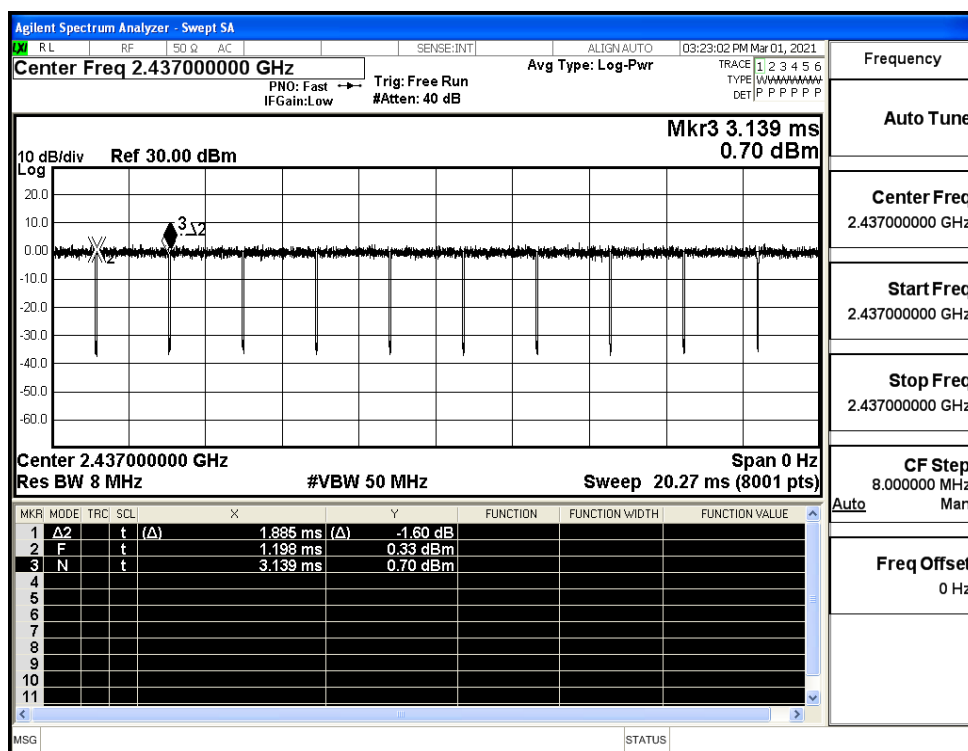
Duty Cycle_11B_2437_Ant1



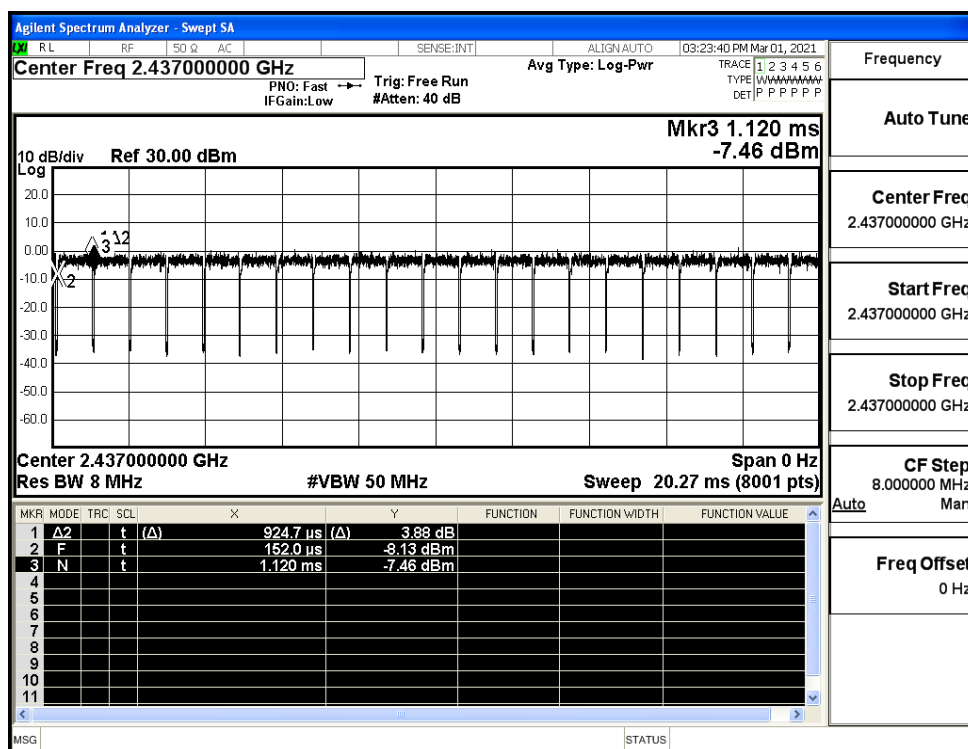
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1



A.2 Maximum Conducted Output Power

Mode	Channel	Peak Power [dBm]			Limit [dBm]	Verdict
		Ant 0	Ant 1	Sum		
11B	LCH	17.73	17.95	/	30	PASS
	MCH	21.28	21.08	/	30	PASS
	HCH	17.03	17.52	/	30	PASS
11G	LCH	17.84	16.91	/	30	PASS
	MCH	21.83	21.81	/	30	PASS
	HCH	17.63	16.75	/	30	PASS
11N20	LCH	17.89	17.36	20.64	30	PASS
	MCH	20.87	21.16	24.03	30	PASS
	HCH	17.61	16.77	20.22	30	PASS
11N40	LCH	18.76	17.72	21.28	30	PASS
	MCH	21.05	21.17	24.12	30	PASS
	HCH	17.16	17.63	20.41	30	PASS

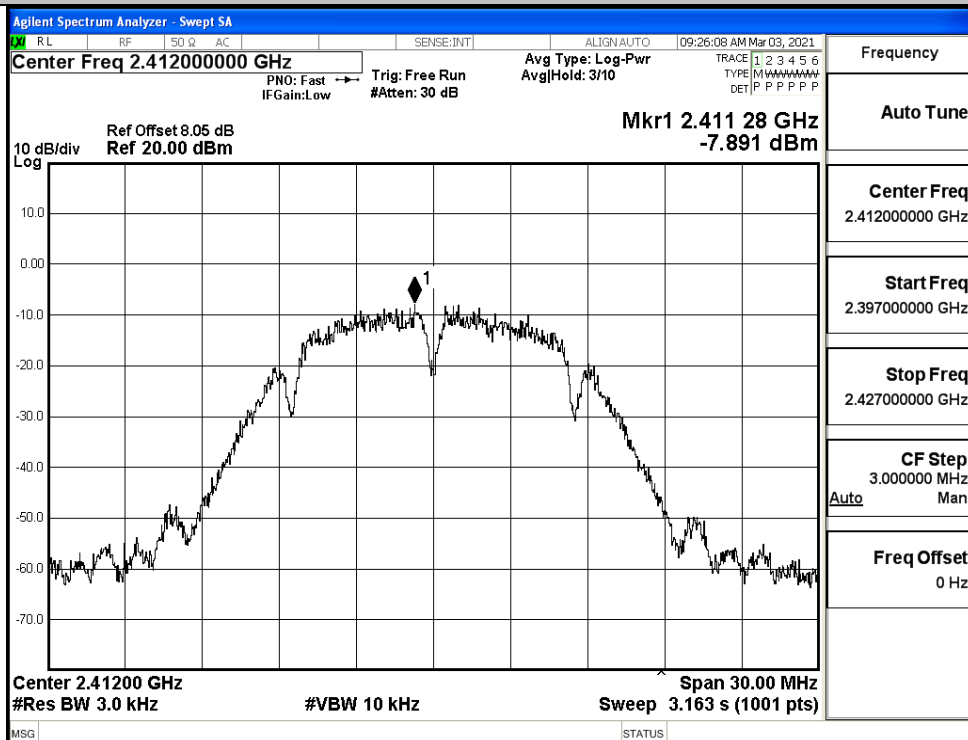
A.3 Maximum Power Spectral Density

Mode	Channel	PSD Level [dBm/3KHz]		Limit [dBm/3KHz]	Verdict
		Ant 0	Ant 1		
11B	LCH	-7.891	-8.698	8	PASS
	MCH	-5.511	-5.723	8	PASS
	HCH	-8.412	-8.806	8	PASS
11G	LCH	-16.642	-17.022	8	PASS
	MCH	-10.381	-11.562	8	PASS
	HCH	-15.464	-13.259	8	PASS
11N20	LCH	-16.172	-16.696	8	PASS
	MCH	-11.408	-12.576	8	PASS
	HCH	-16.557	-16.697	8	PASS
11N40	LCH	-17.775	-18.494	8	PASS
	MCH	-15.709	-13.259	8	PASS
	HCH	-18.695	-18.876	8	PASS

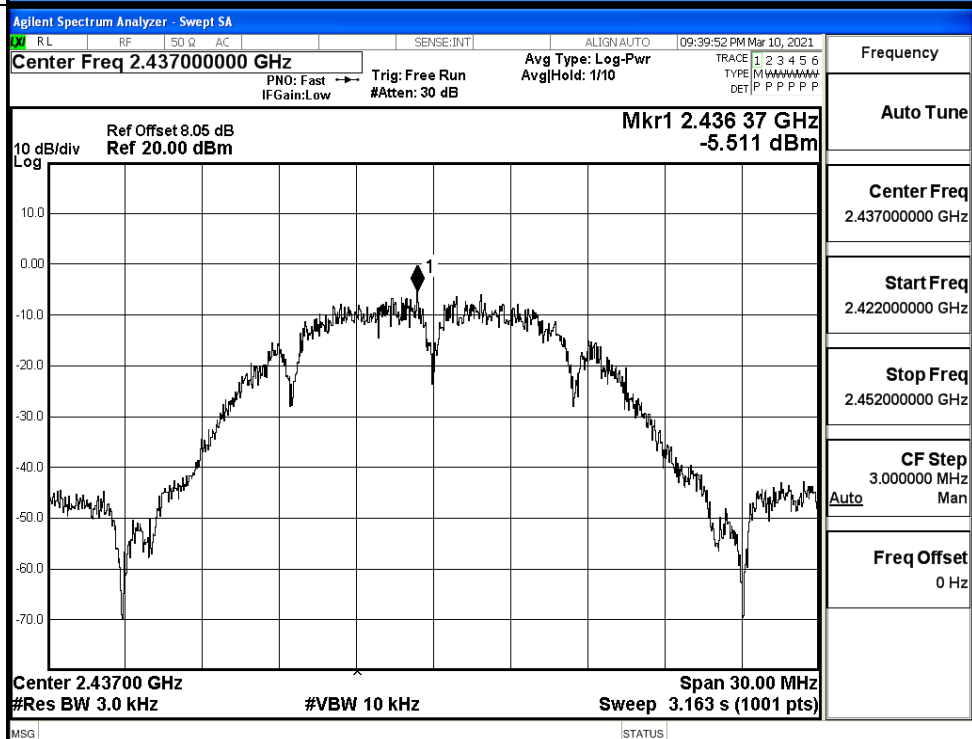
Mode	Channel	MIMO PSD [dBm/3KHz]			Limit [dBm/3KHz]	Verdict
		Ant 0	Ant 1	Sum		
11N20	LCH	-16.172	-16.696	-13.42	8	PASS
	MCH	-11.408	-12.576	-8.94	8	PASS
	HCH	-16.557	-16.697	-13.62	8	PASS
11N40	LCH	-17.775	-18.494	-15.11	8	PASS
	MCH	-15.709	-13.259	-11.30	8	PASS
	HCH	-18.695	-18.876	-15.77	8	PASS

Test Graphs_Ant0

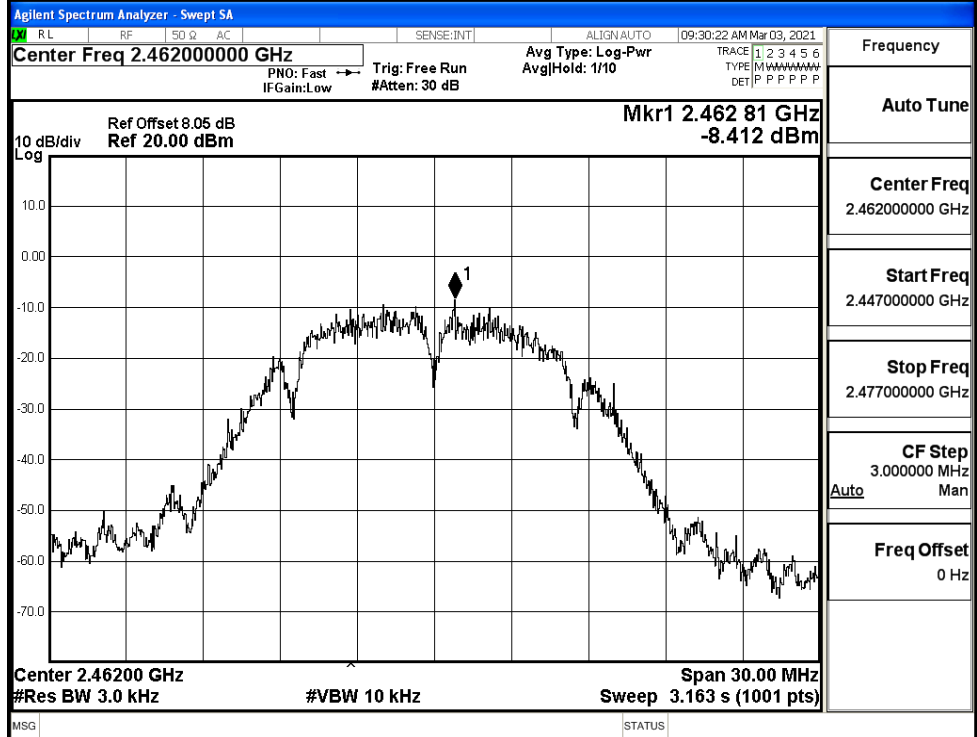
11B/LCH



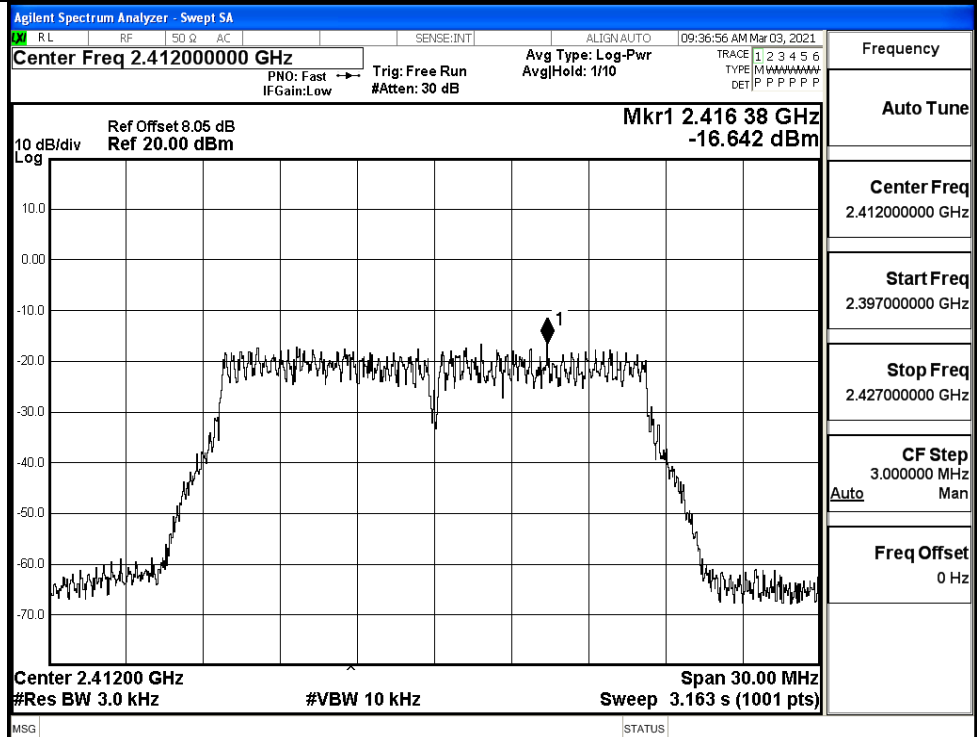
11B/MCH



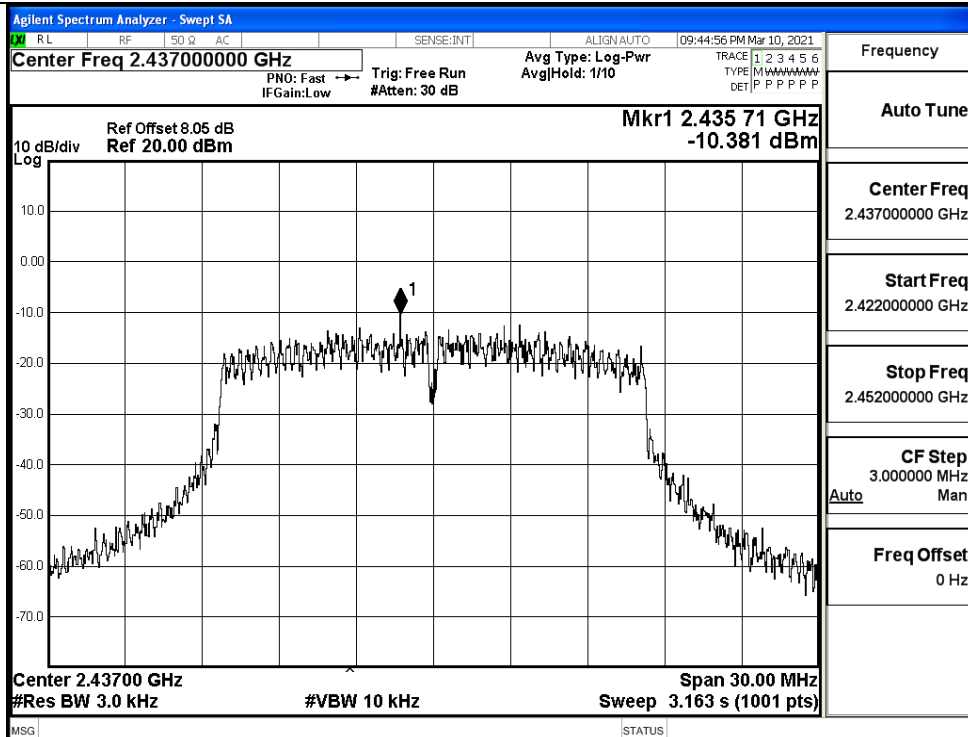
11B/HCH



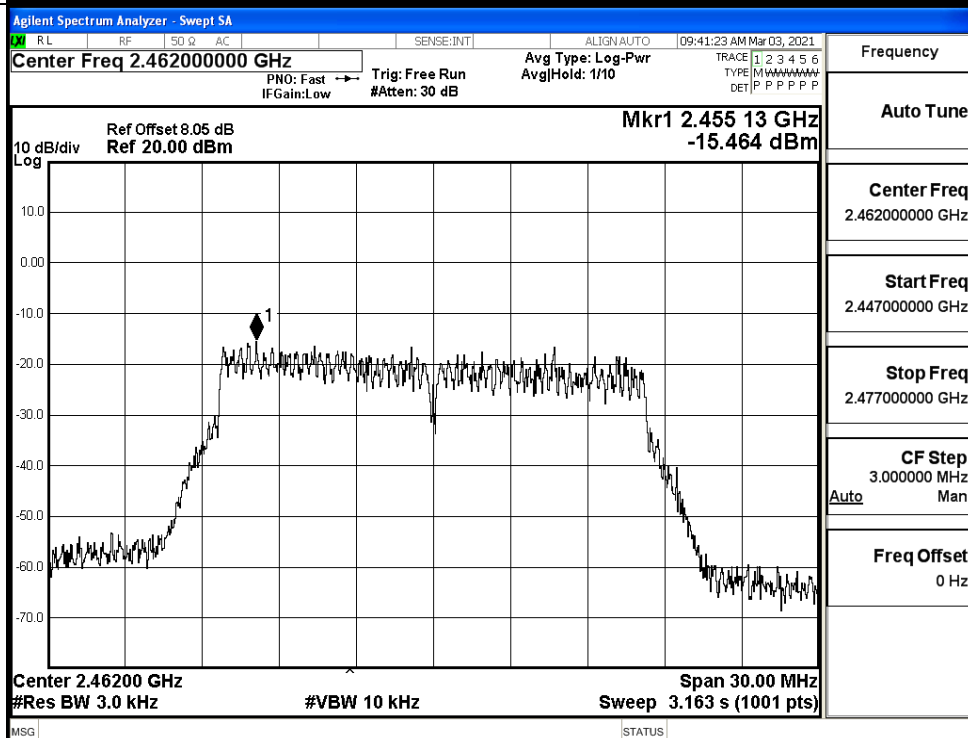
11G/LCH



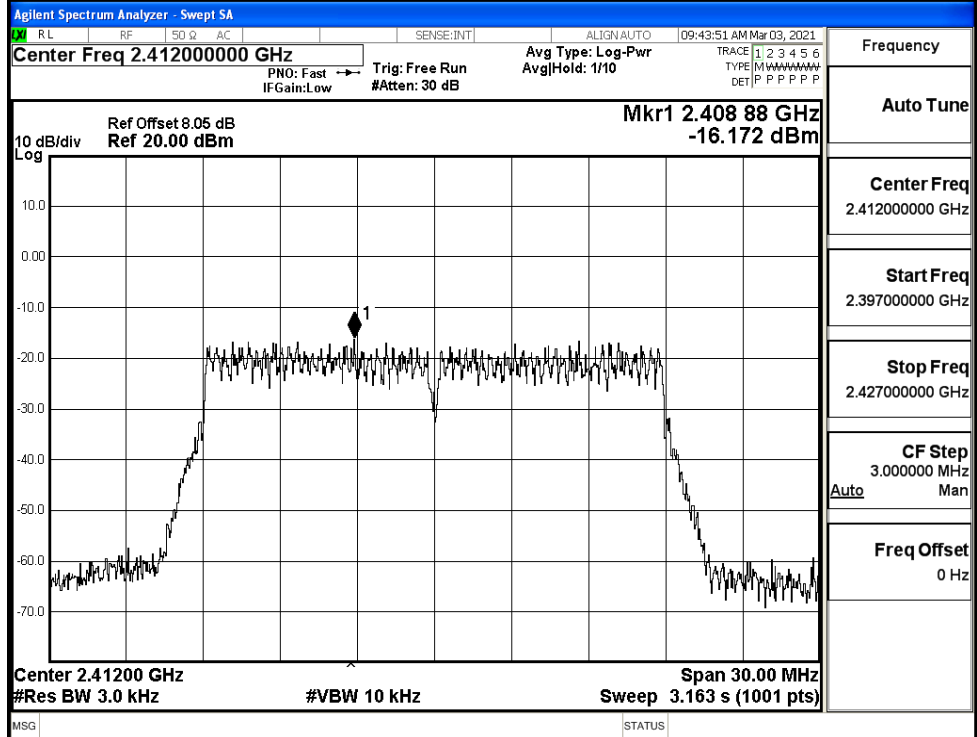
11G/MCH



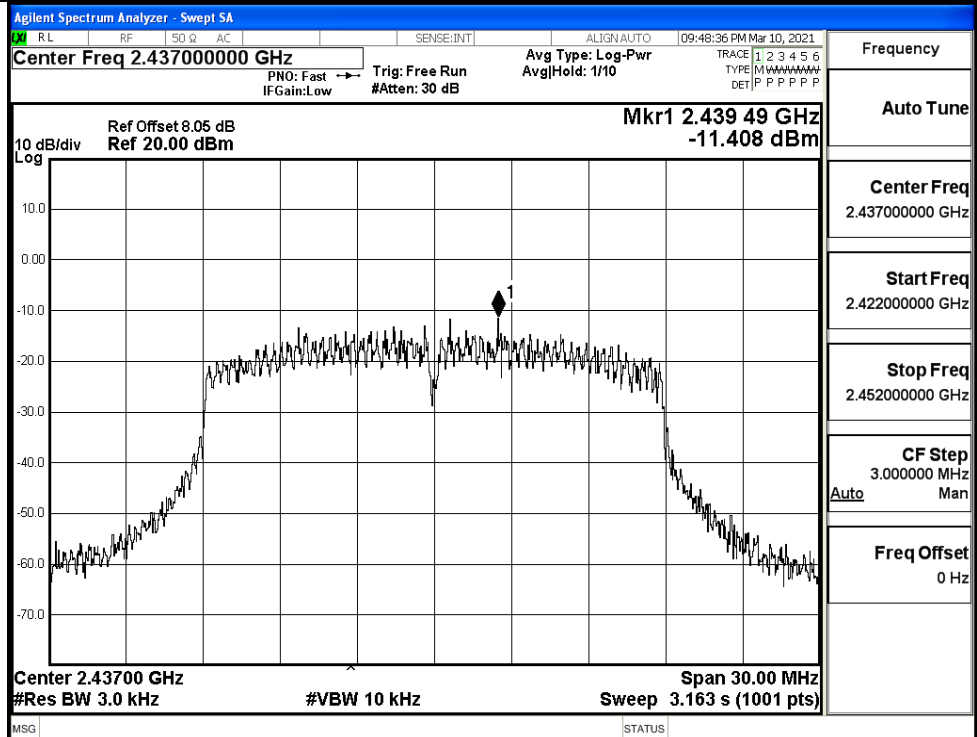
11G/HCH



11N20SISO/LCH

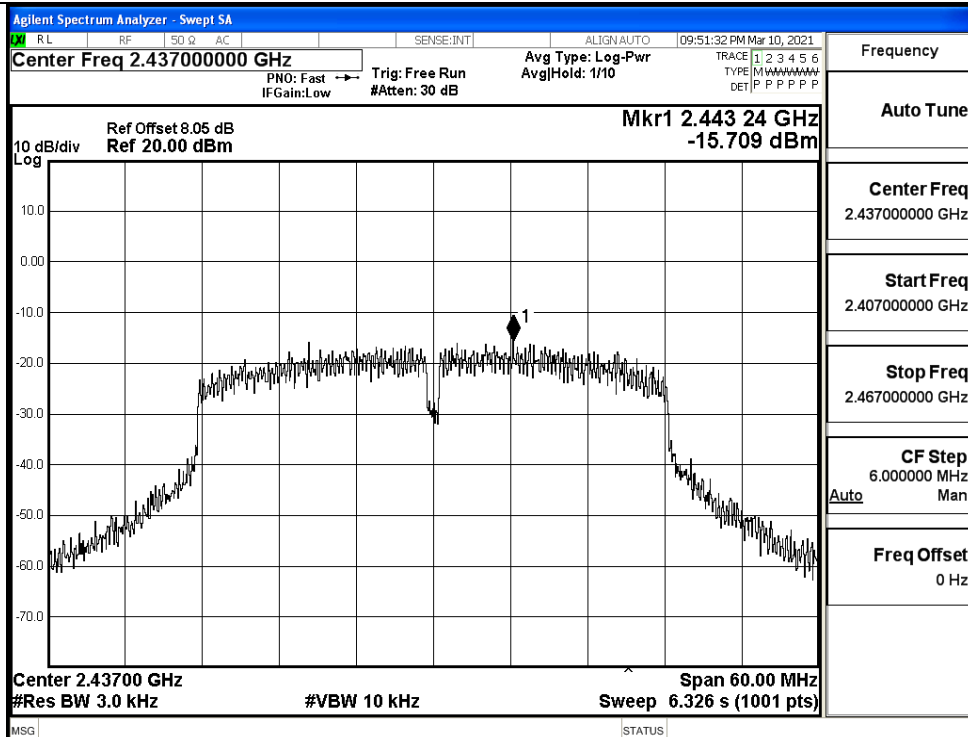


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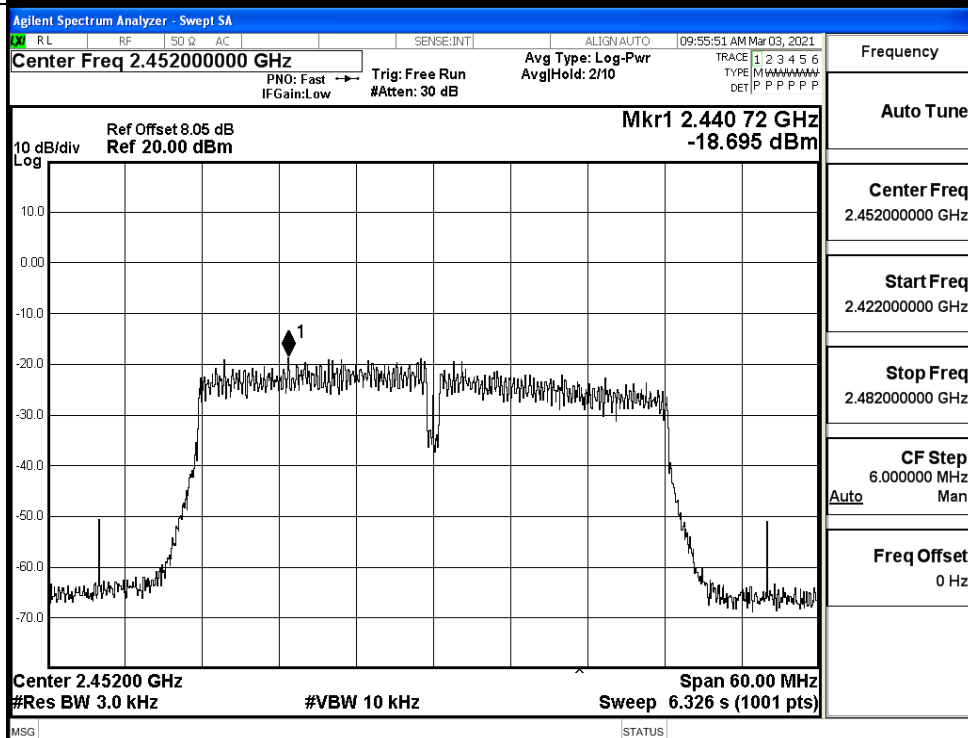


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11N40SISO/MCH

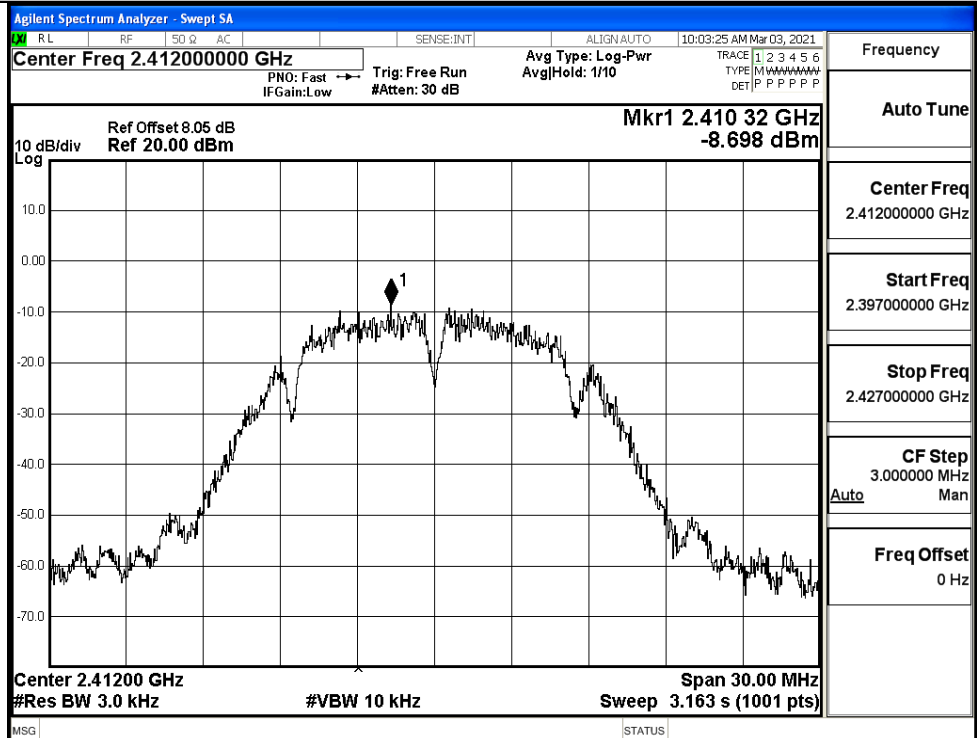


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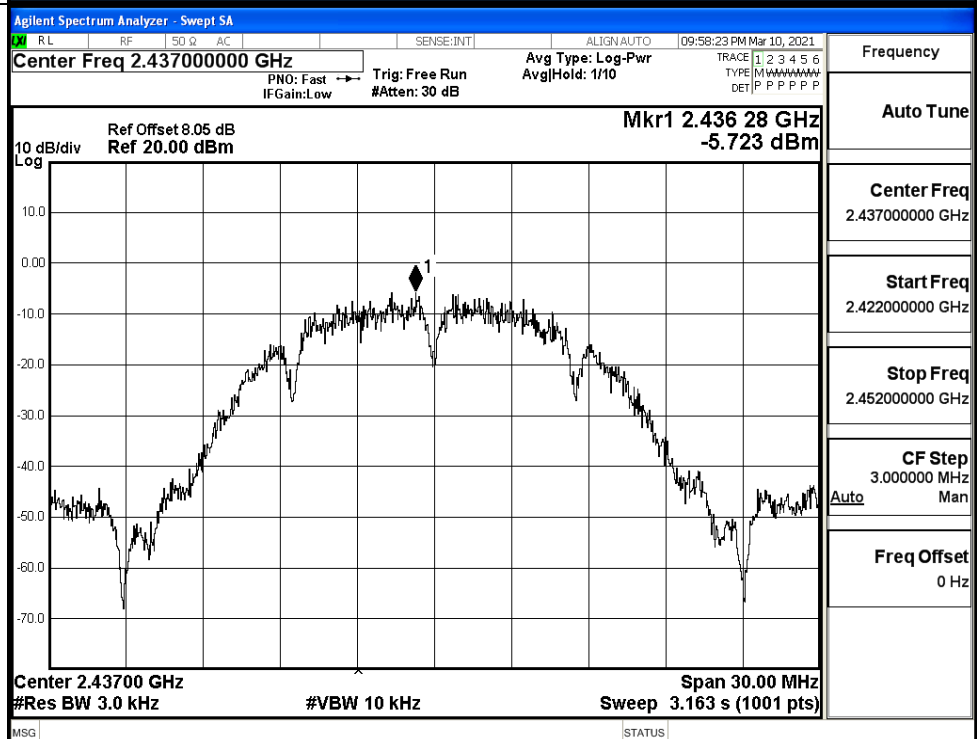


Test Graphs_Ant1

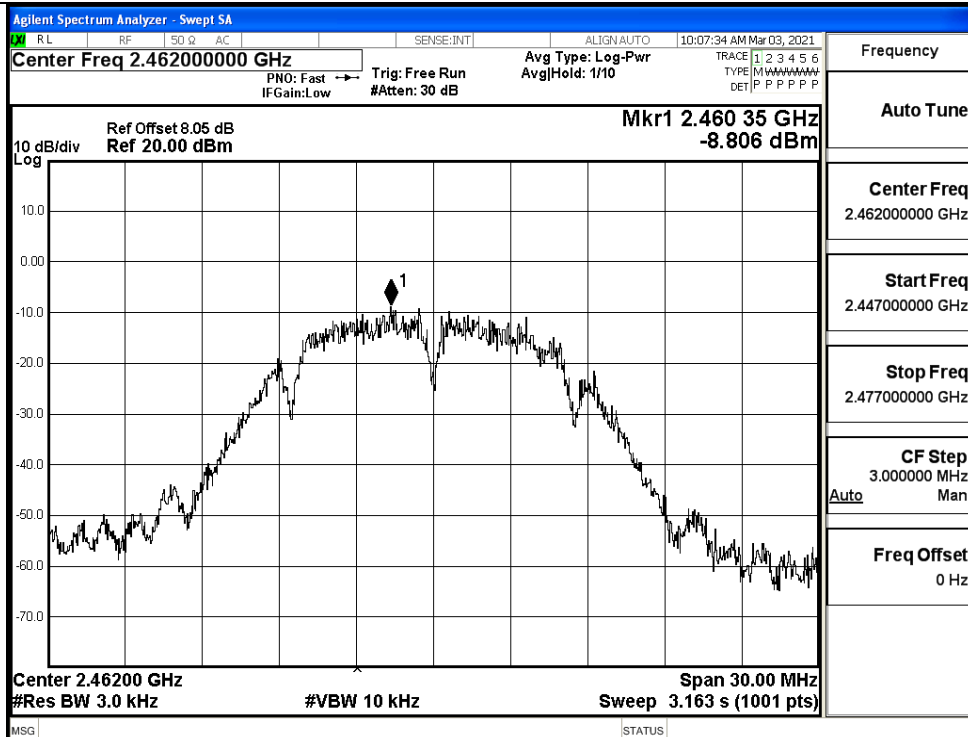
11B/LCH



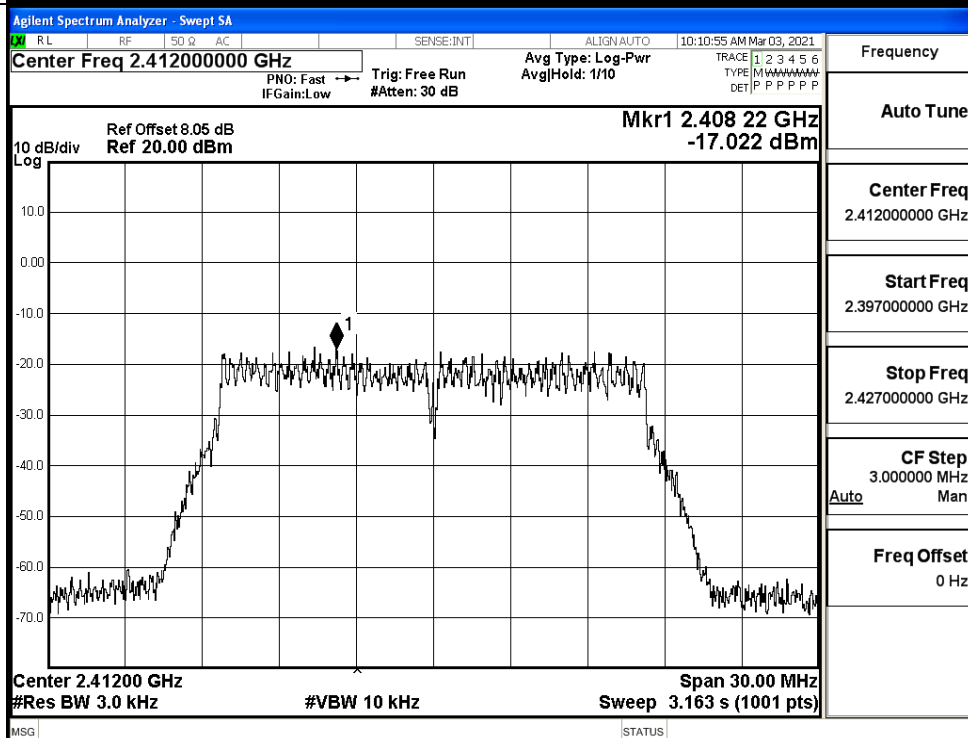
11B/MCH



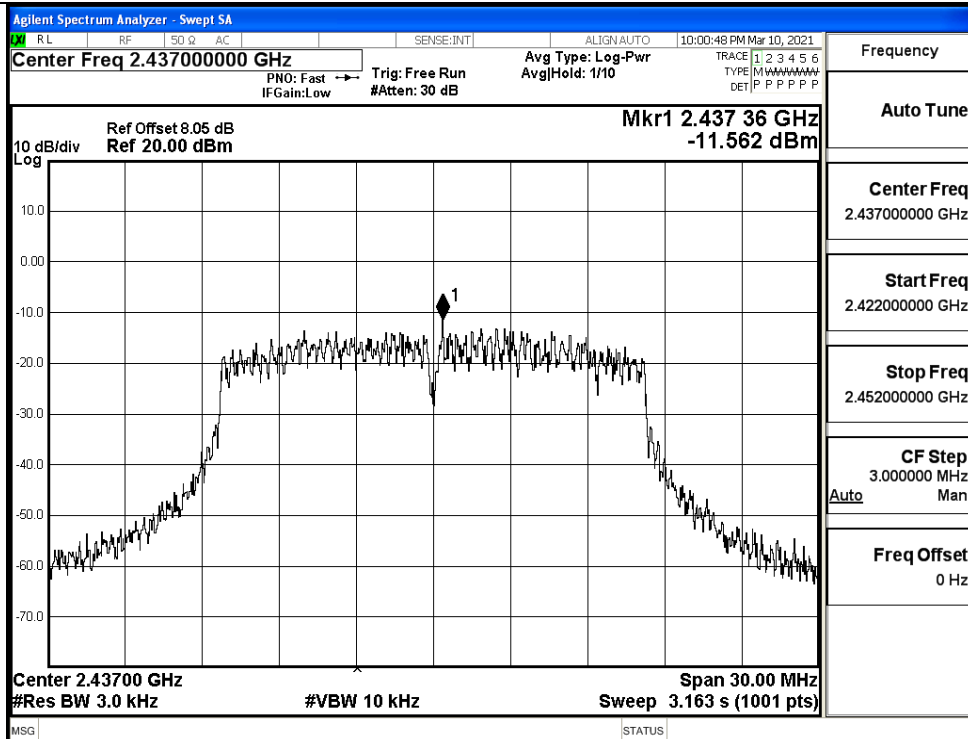
11B/HCH



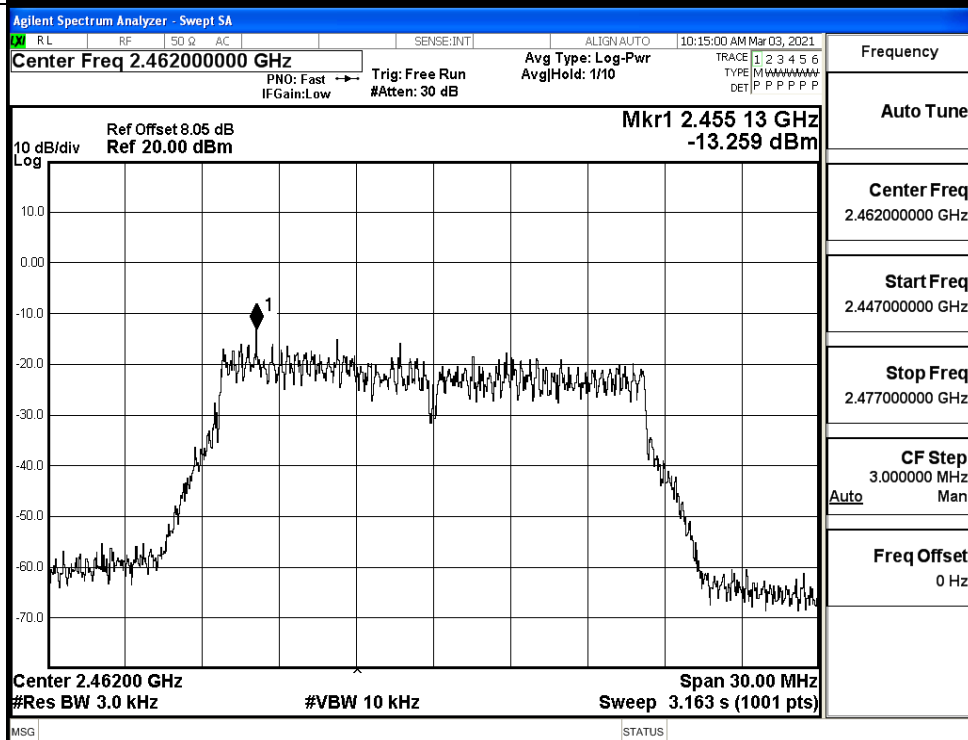
11G/LCH



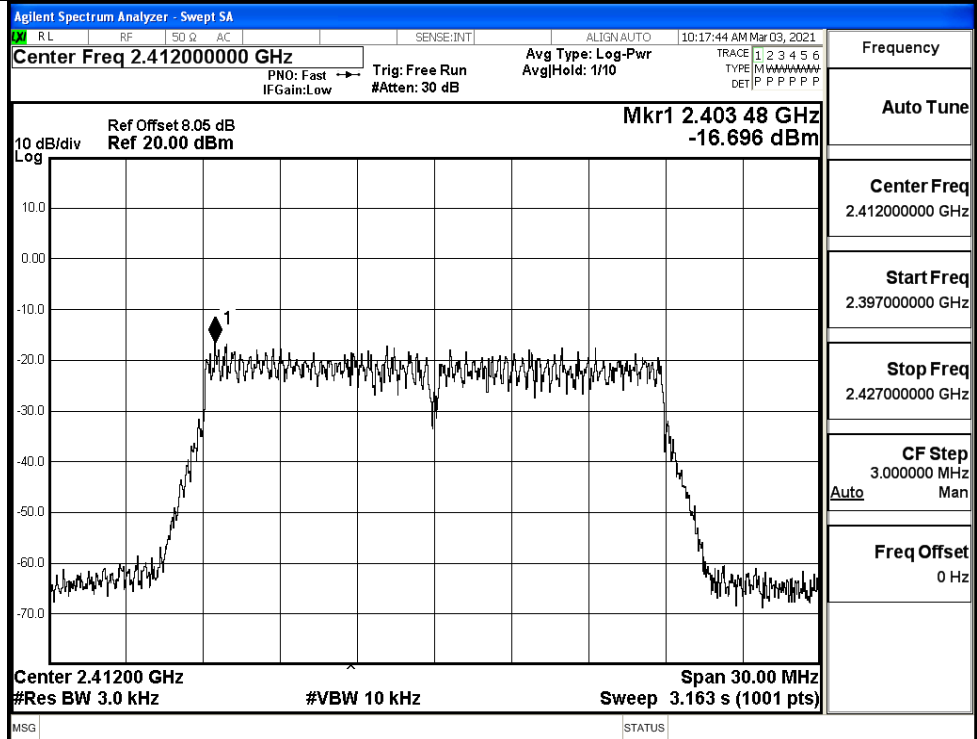
11G/MCH



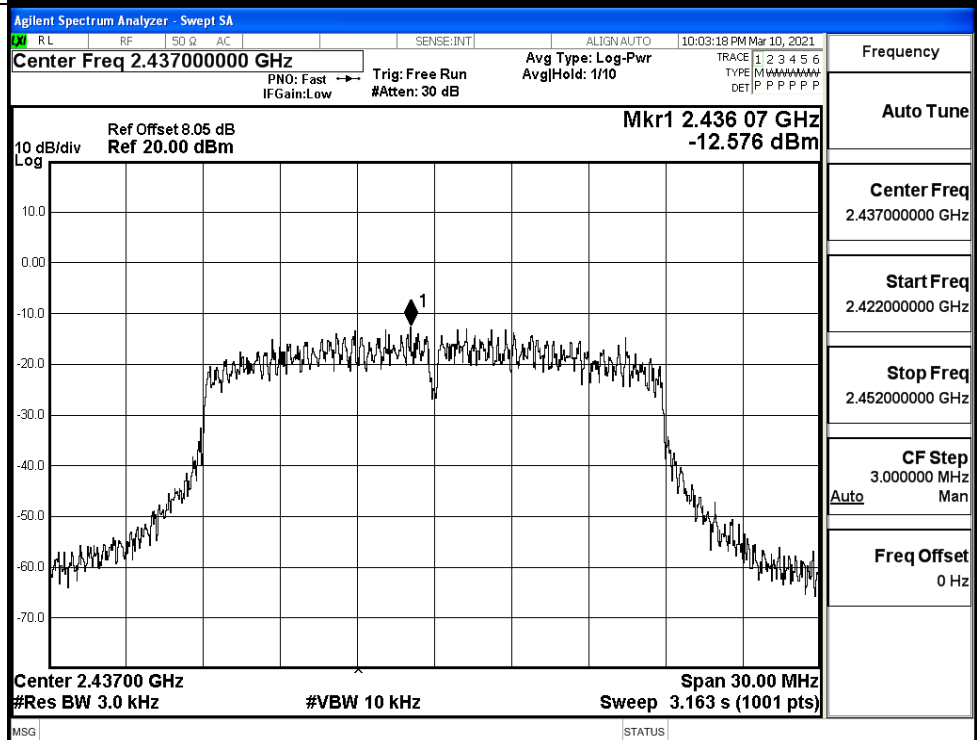
11G/HCH



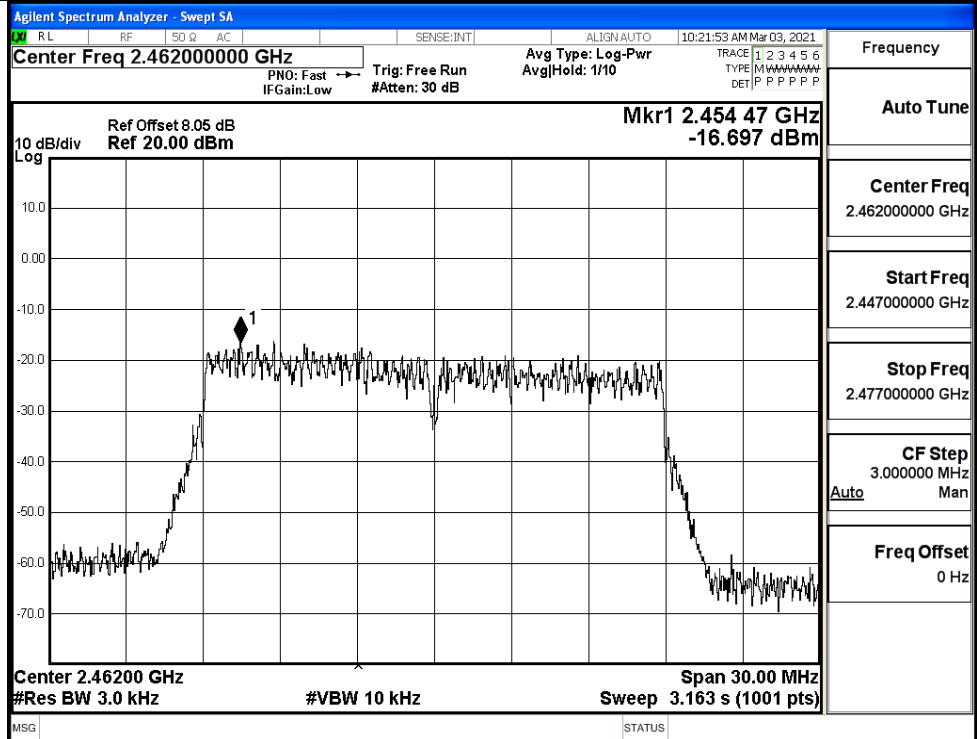
11N20SISO/LCH



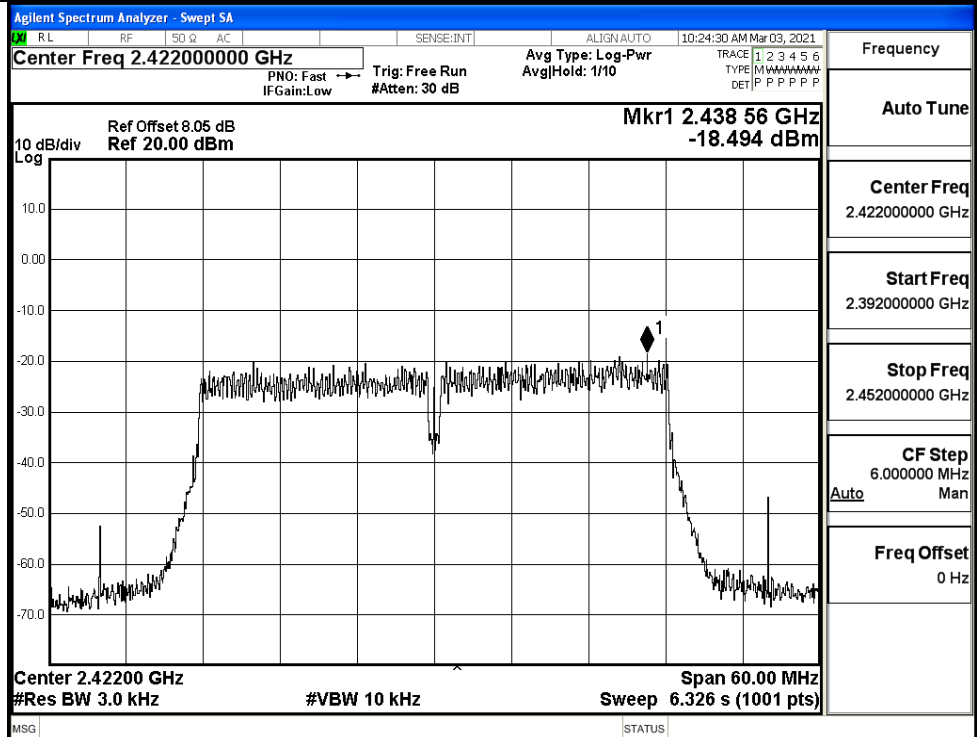
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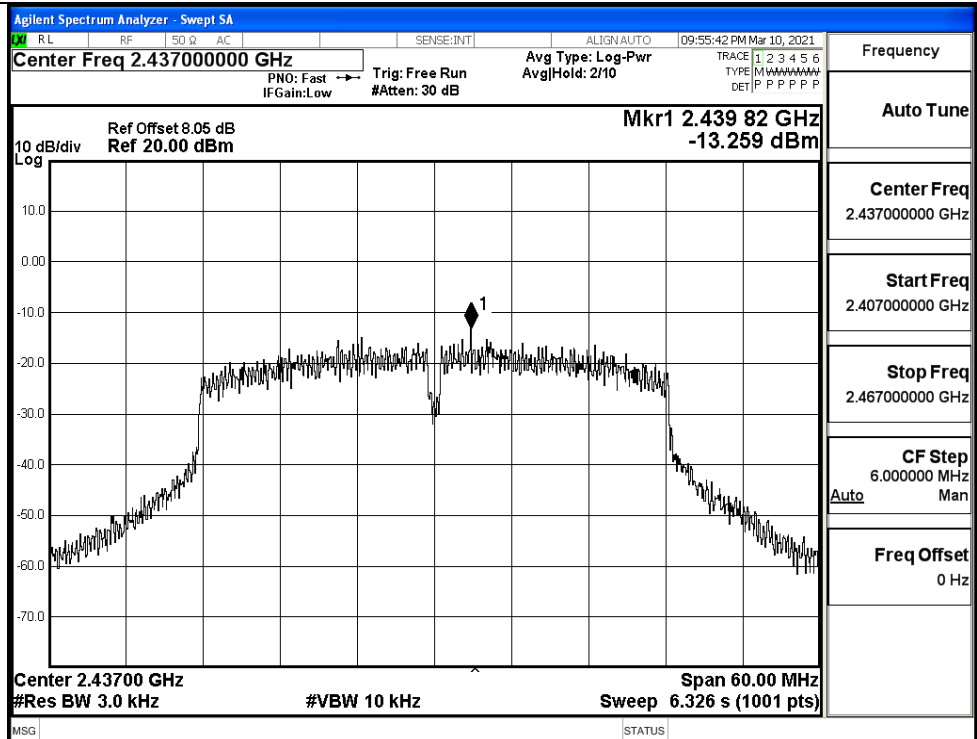
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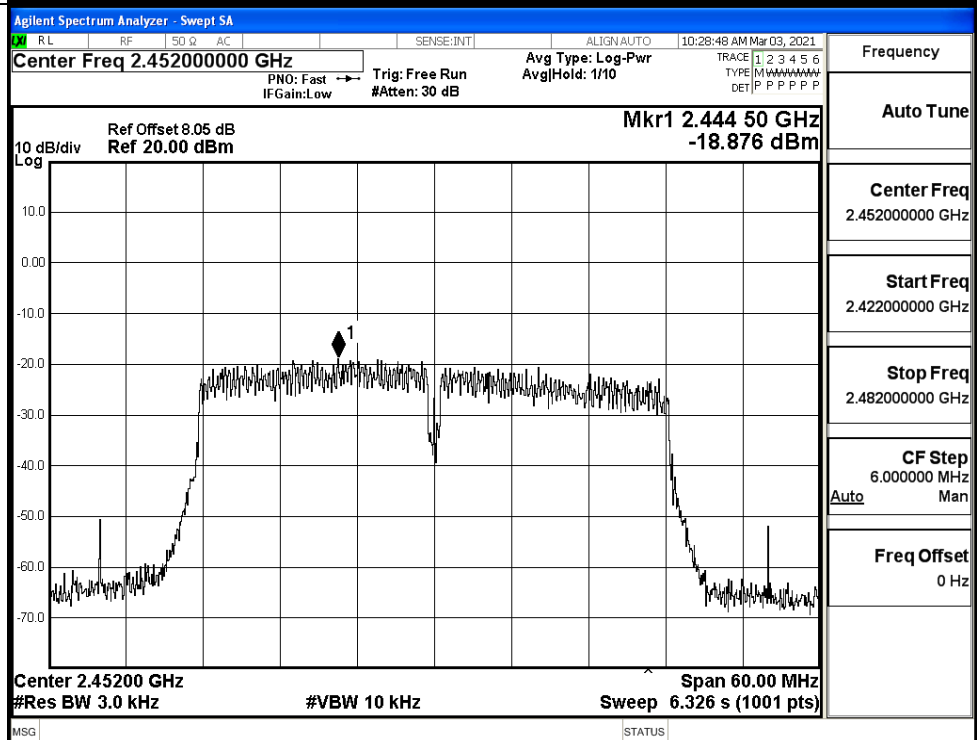
11N40SISO/LCH



11N40SISO/MCH

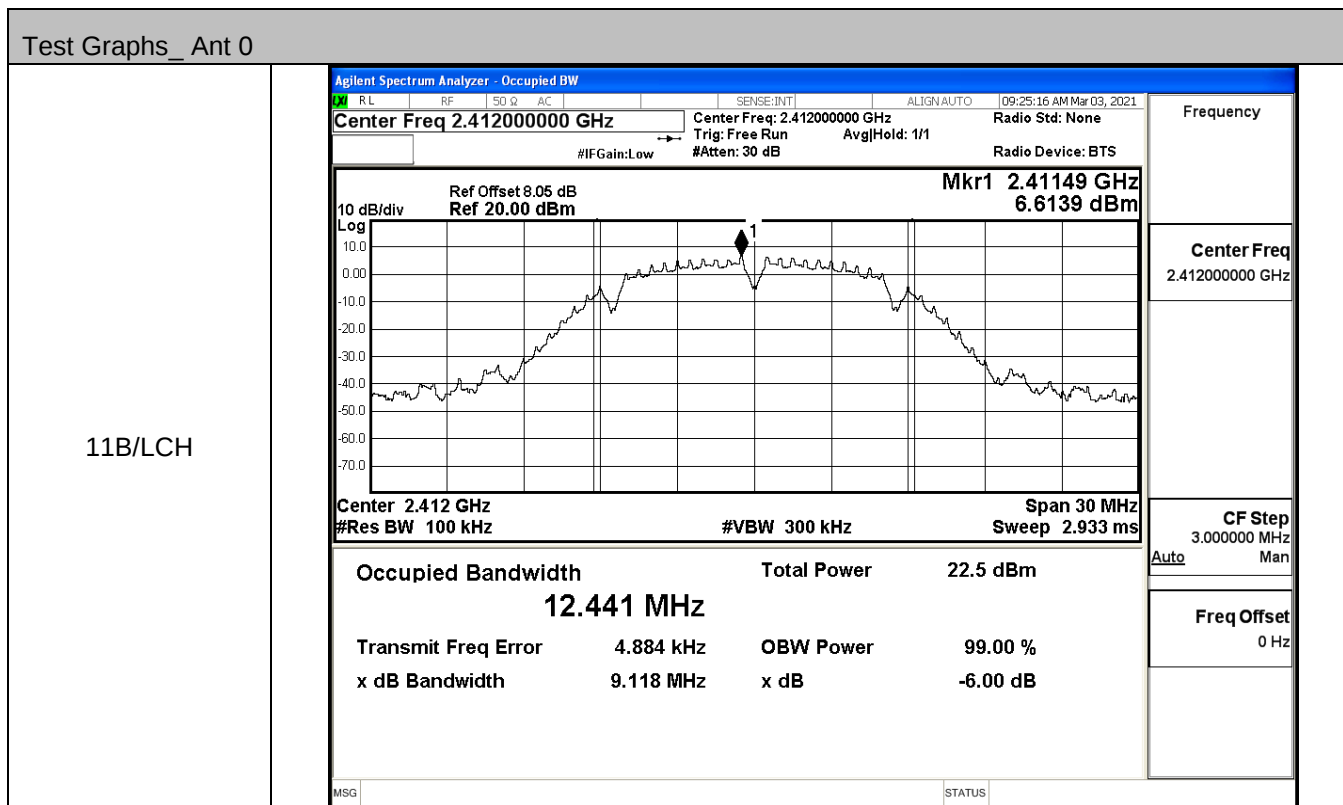


11N40SISO/HCH

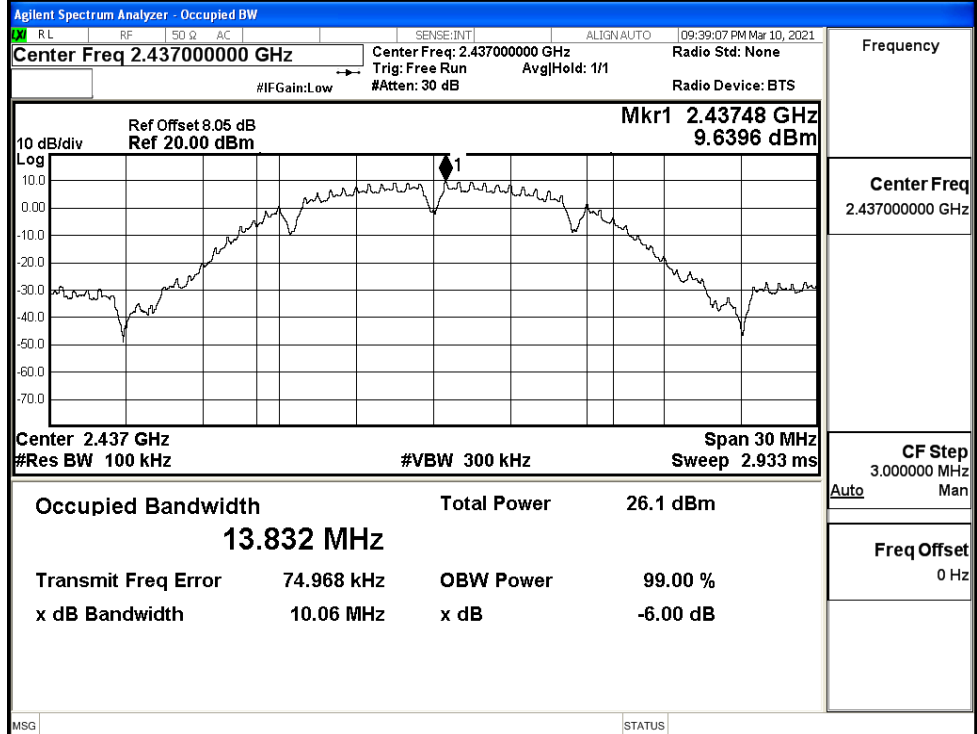


A.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]		Limit [MHz]	Verdict
		Ant 0	Ant 1		
11B	LCH	9.118	10.05	≥ 0.5	PASS
	MCH	10.06	10.04	≥ 0.5	PASS
	HCH	9.583	9.558	≥ 0.5	PASS
11G	LCH	16.42	16.41	≥ 0.5	PASS
	MCH	15.10	15.08	≥ 0.5	PASS
	HCH	15.81	16.00	≥ 0.5	PASS
11N20SISO	LCH	17.65	17.65	≥ 0.5	PASS
	MCH	15.13	15.12	≥ 0.5	PASS
	HCH	16.41	17.20	≥ 0.5	PASS
11N40SISO	LCH	35.78	35.75	≥ 0.5	PASS
	MCH	32.62	33.86	≥ 0.5	PASS
	HCH	35.45	35.35	≥ 0.5	PASS



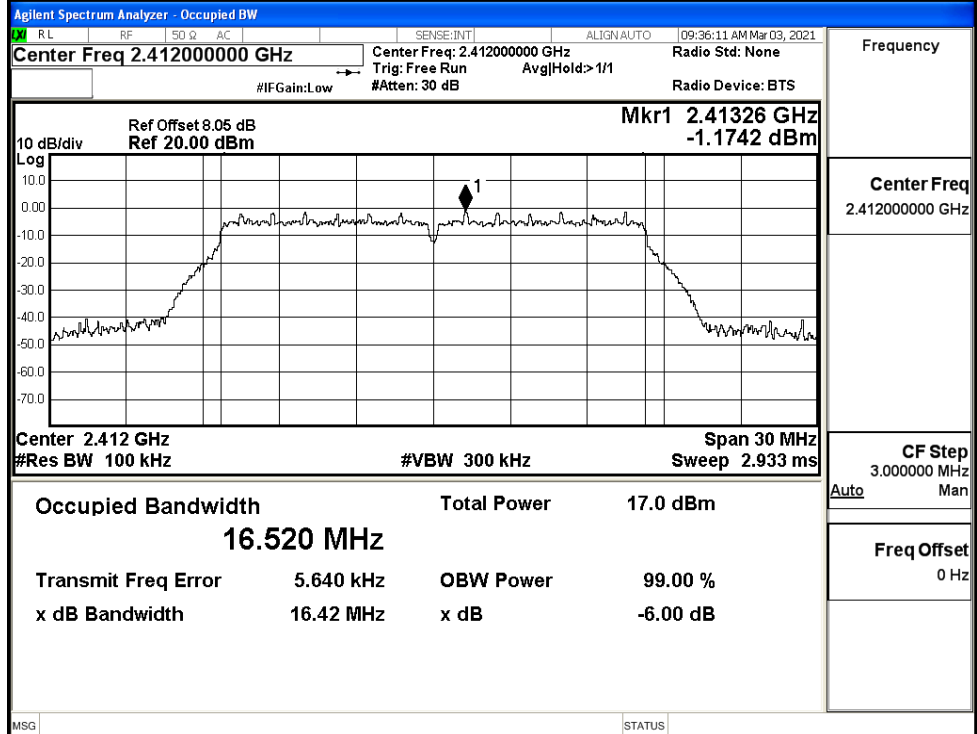
11B/MCH



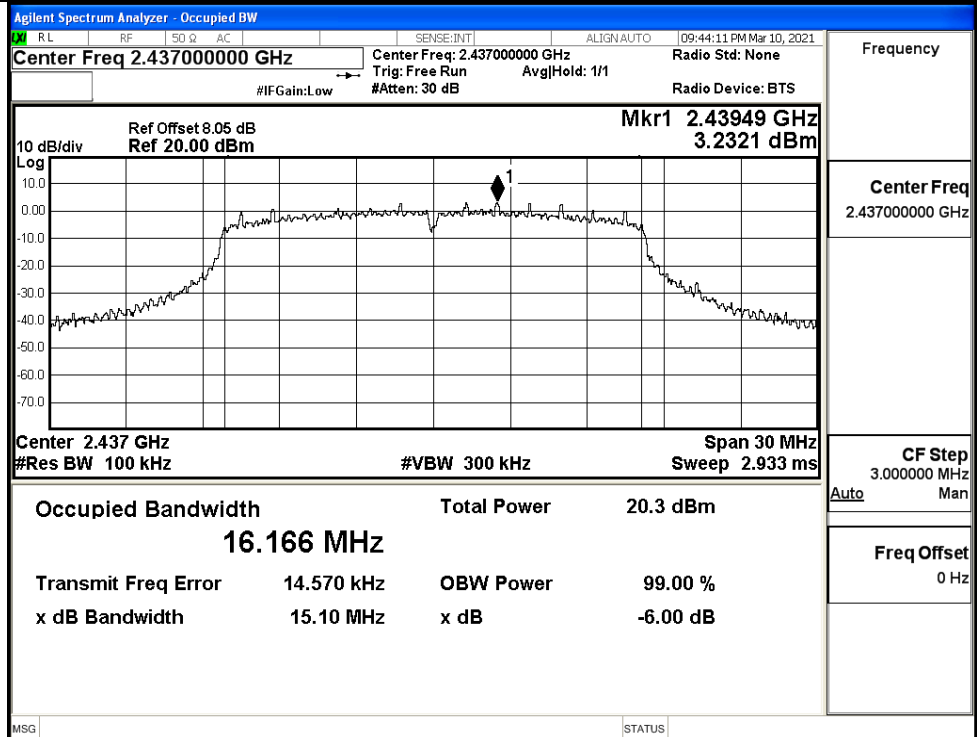
11B/HCH



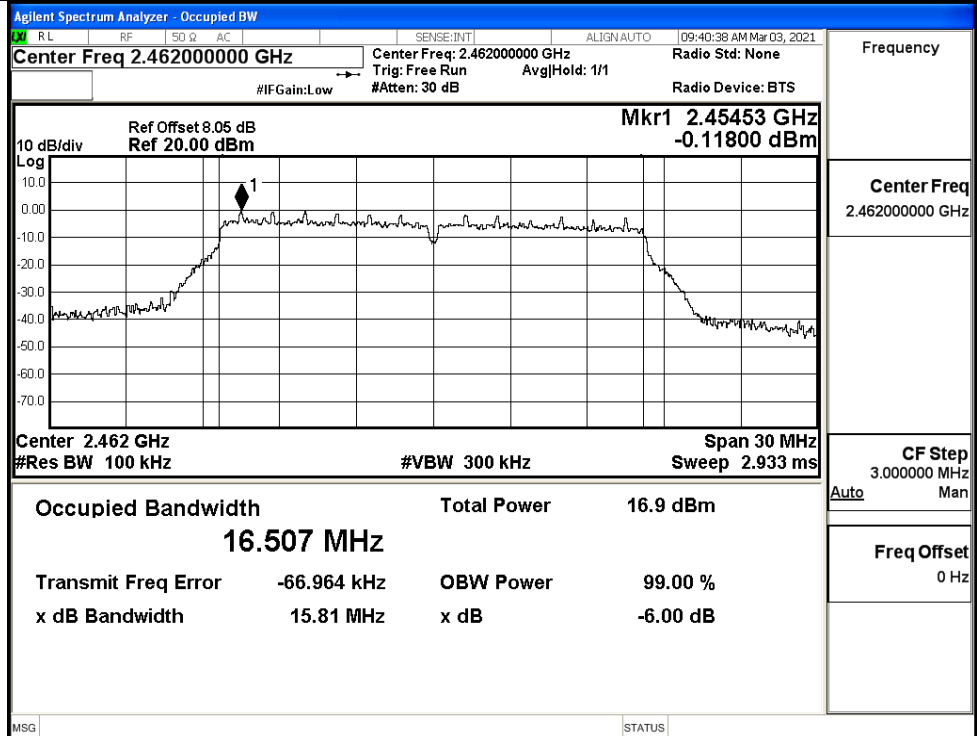
11G/LCH



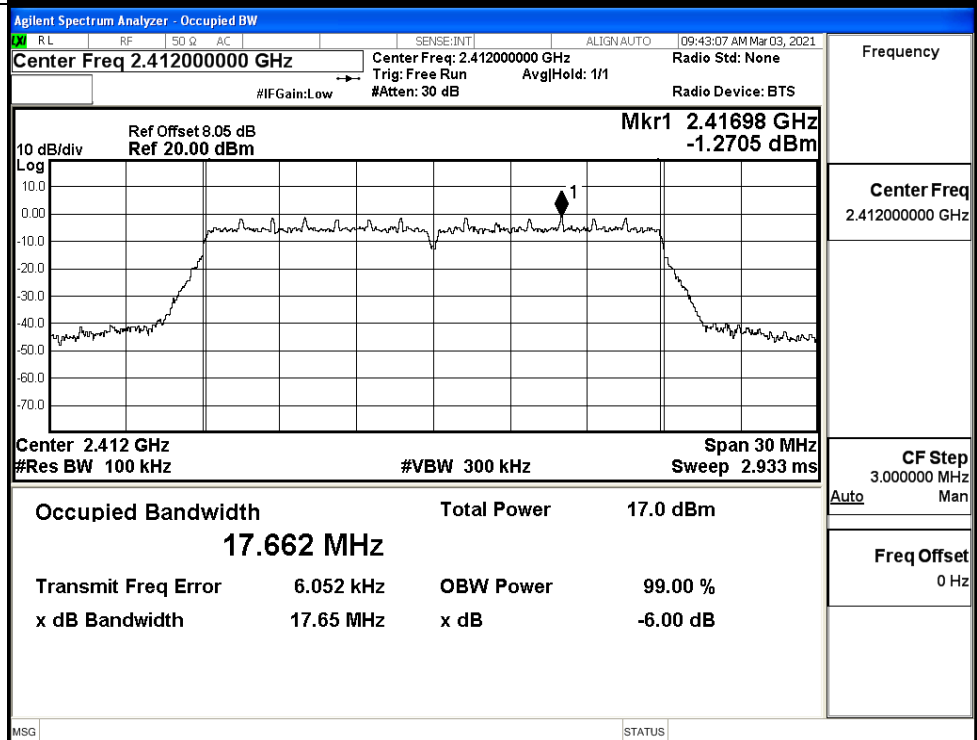
11G/MCH



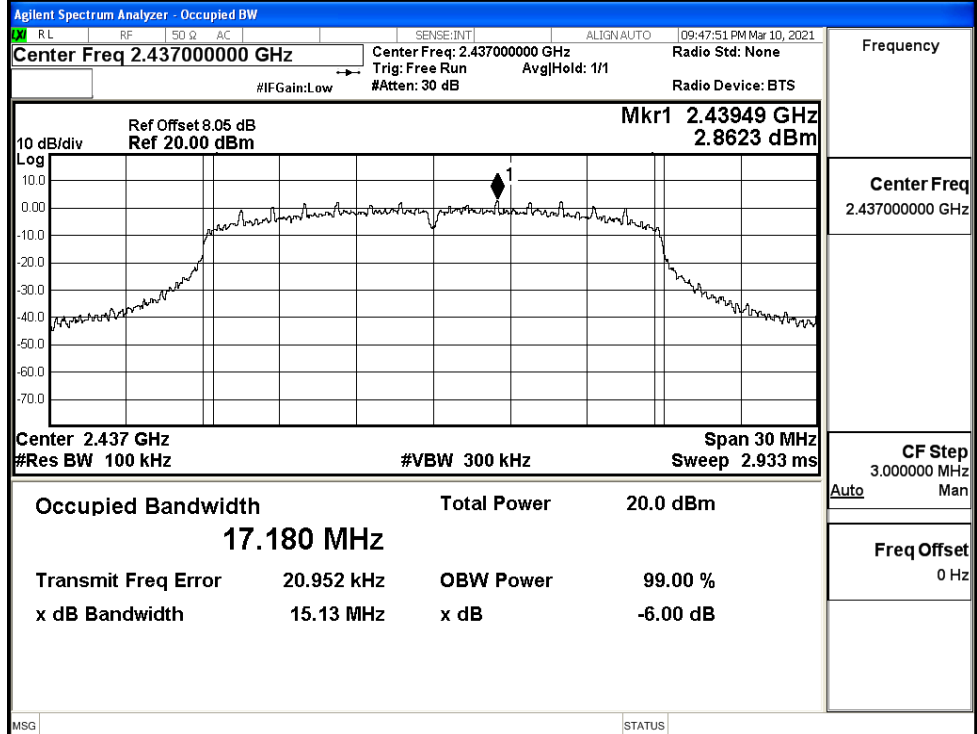
11G/HCH



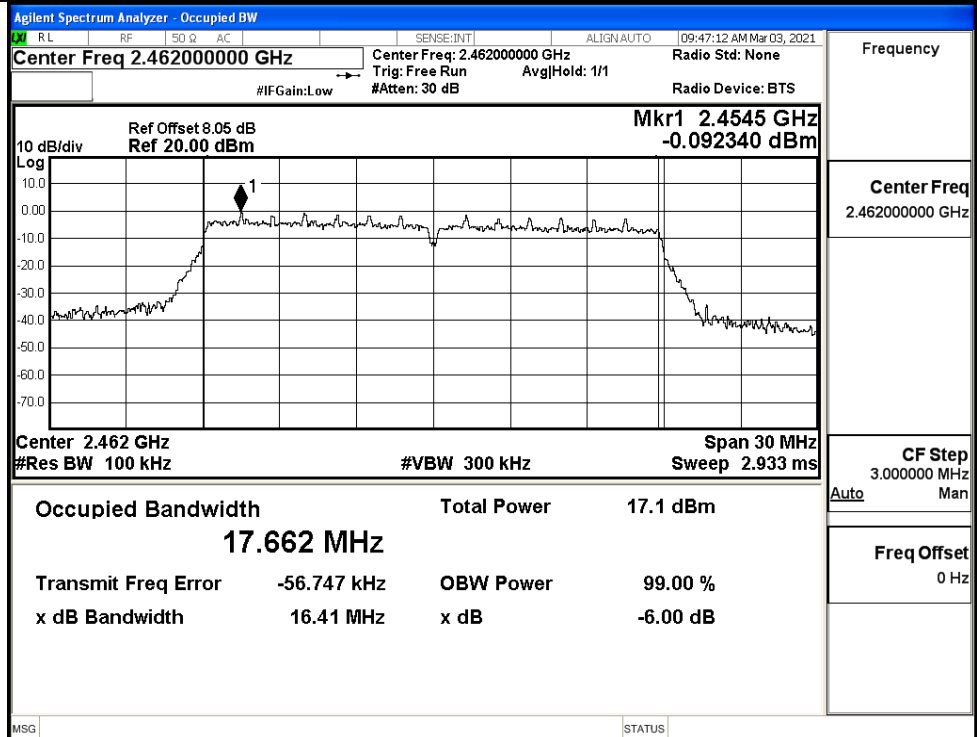
11N20SISO/LCH



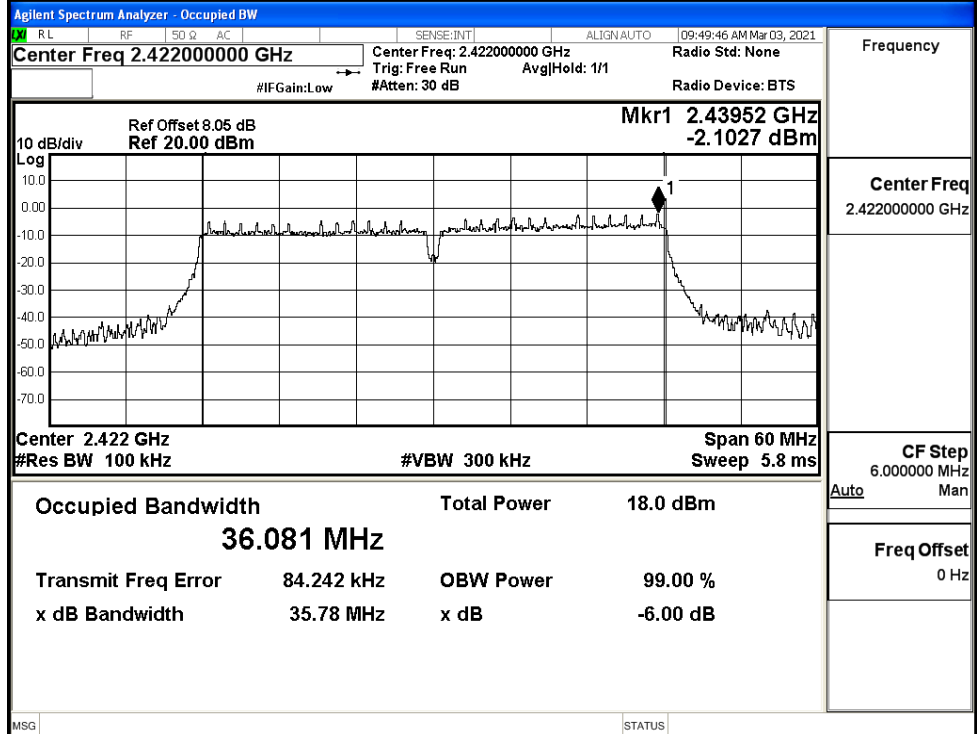
11N20SISO/MCH



11N20SISO/HCH



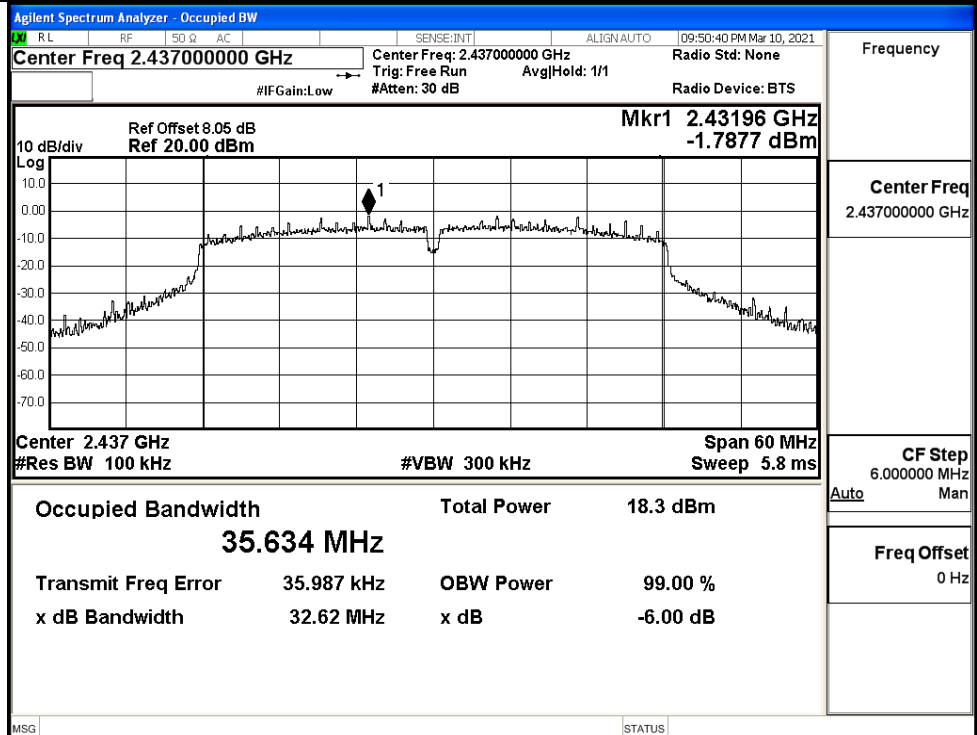
11N40SISO/LCH



Frequency

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

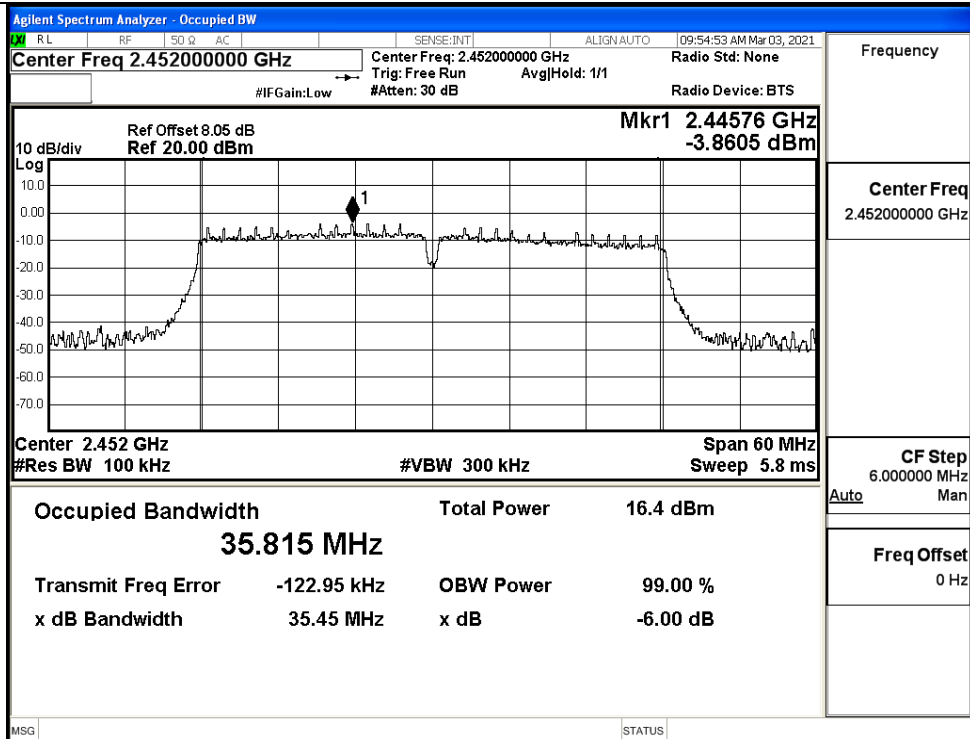
11N40SISO/MCH



Frequency

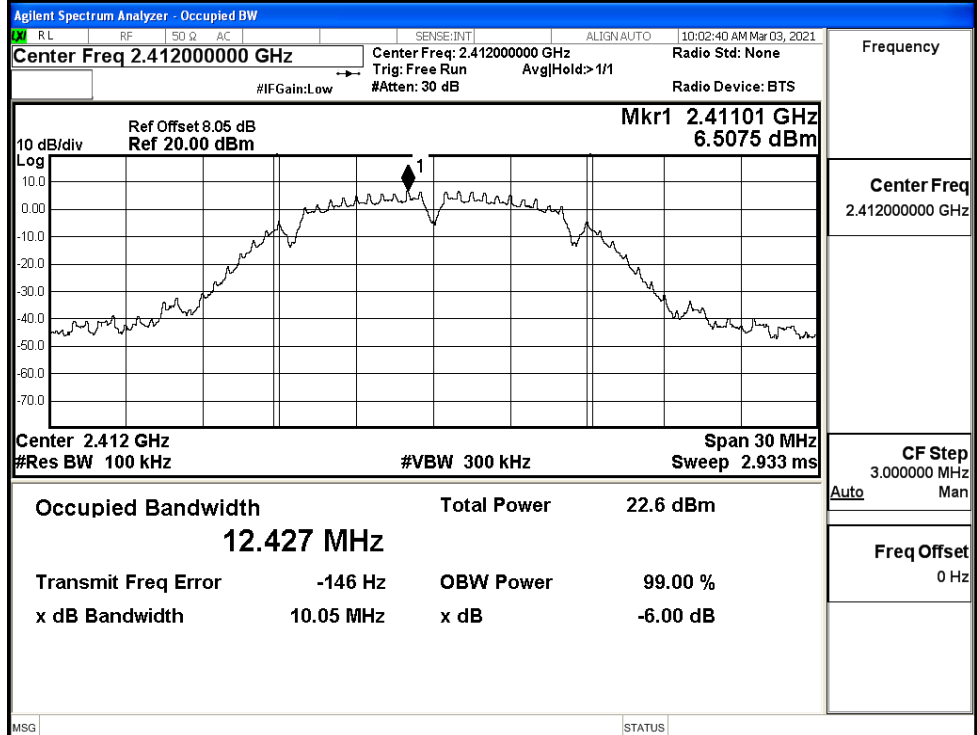
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6.000000 MHz
Auto ManFreq Offset
0 Hz

11N40SISO/HCH

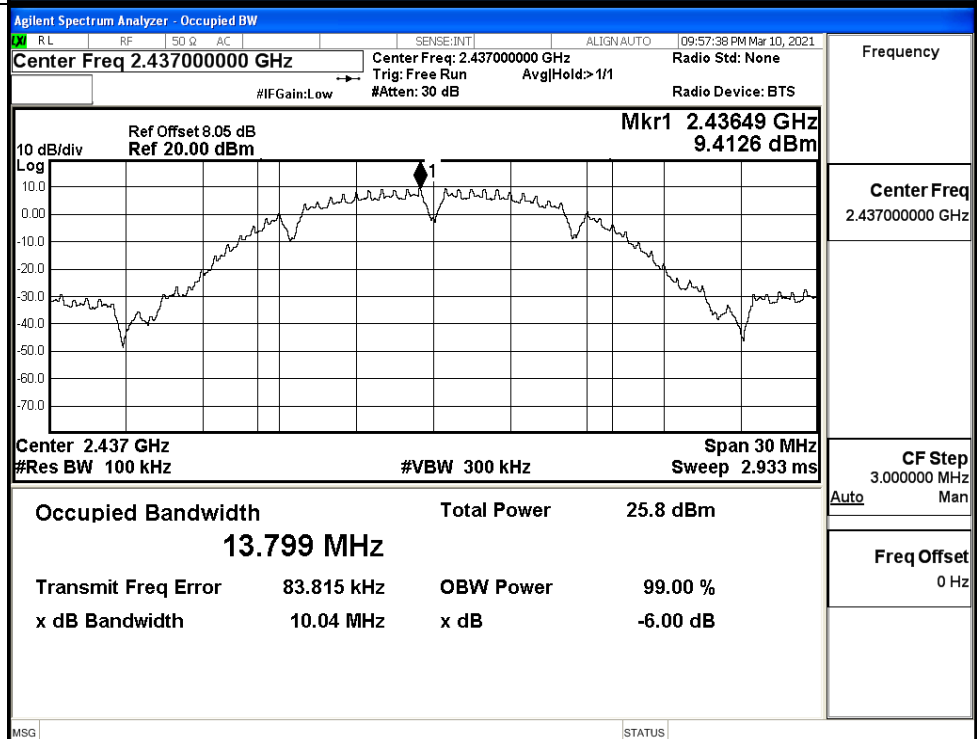


Test Graphs_ Ant 1

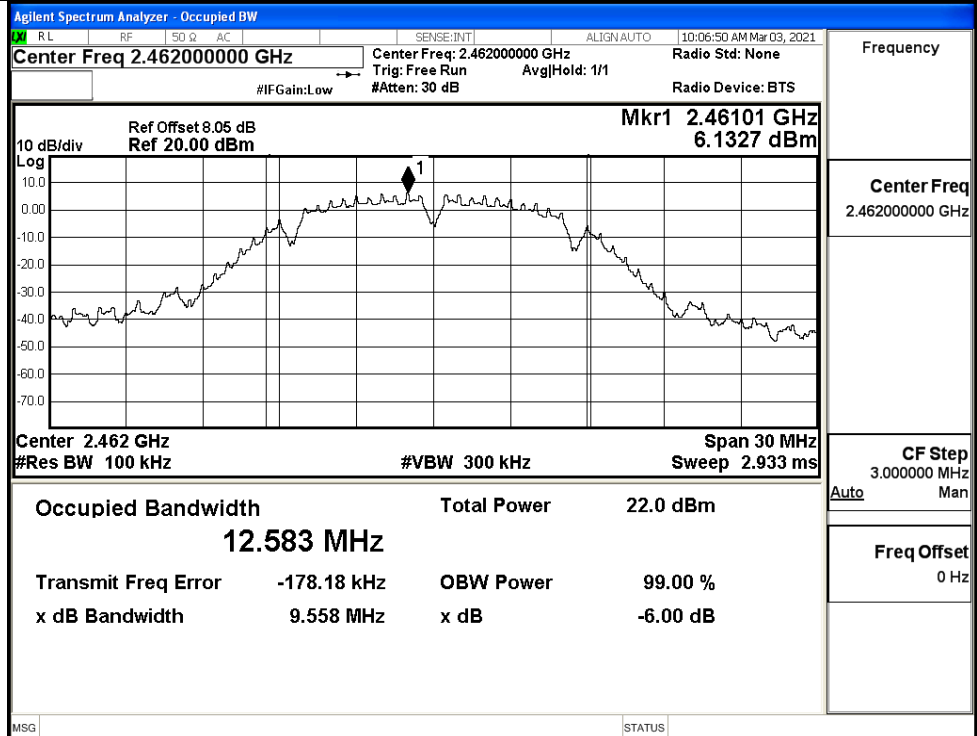
11B/LCH



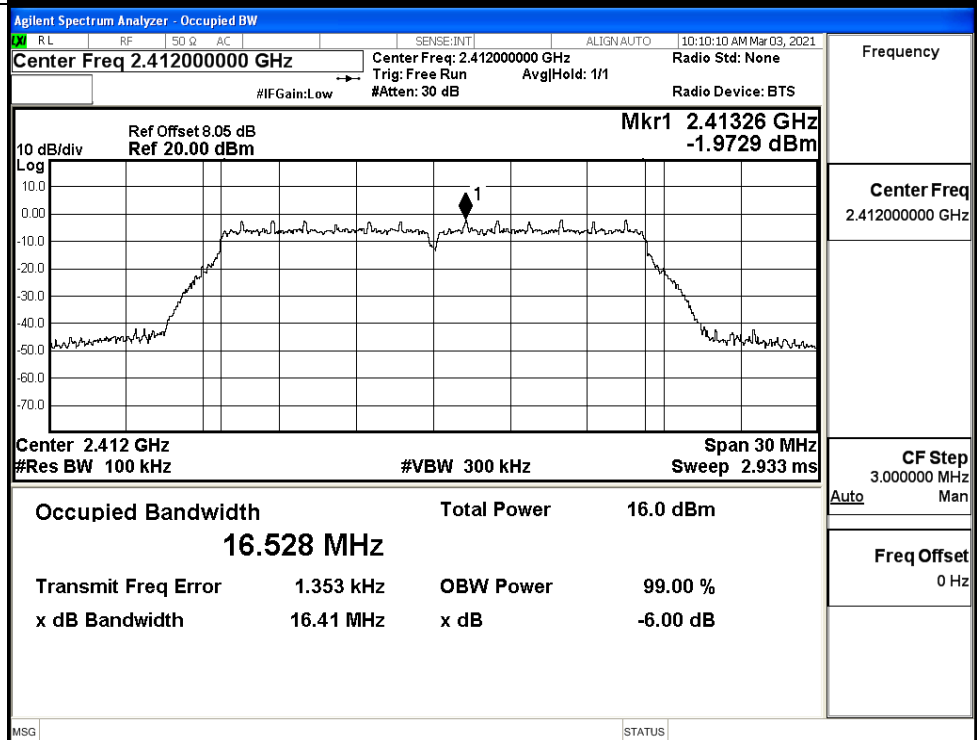
11B/MCH



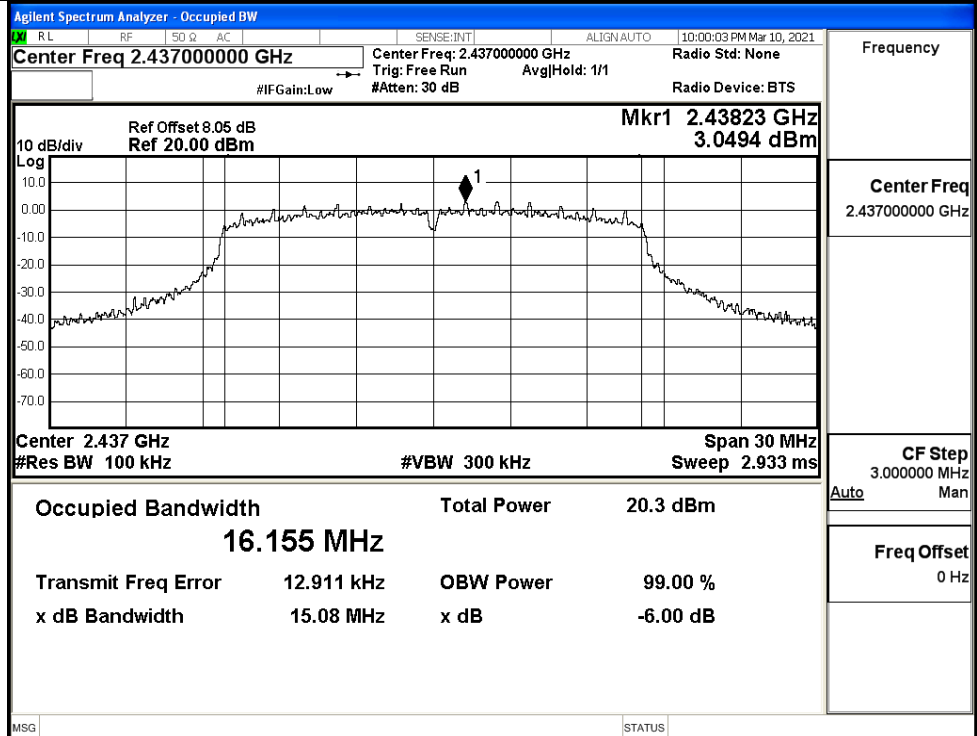
11B/HCH



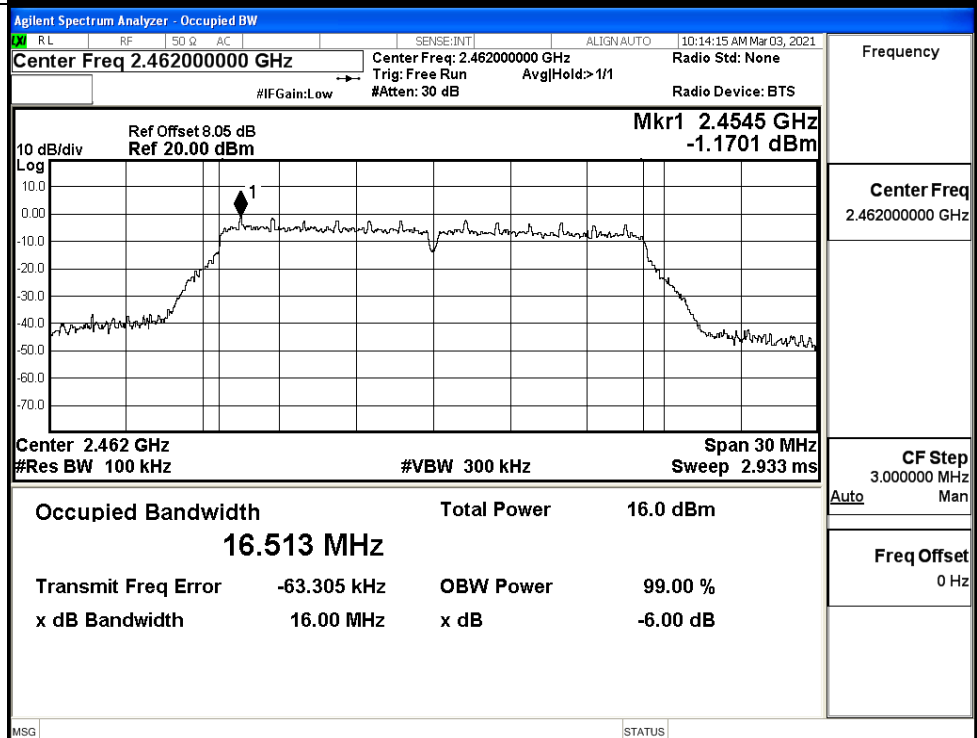
11G/LCH



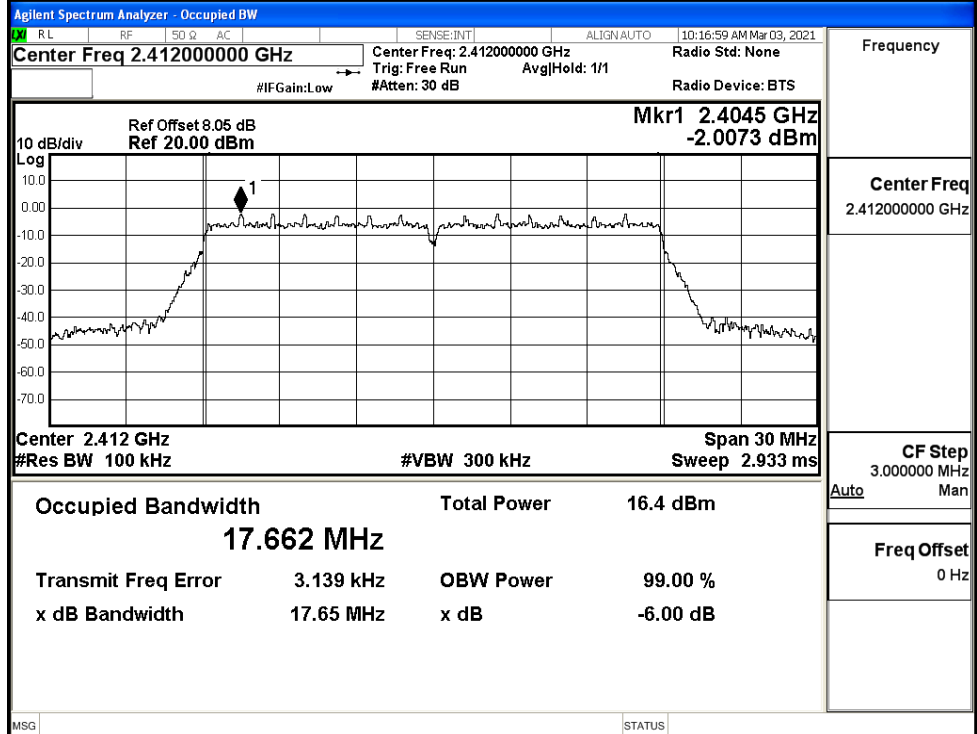
11G/MCH



11G/HCH



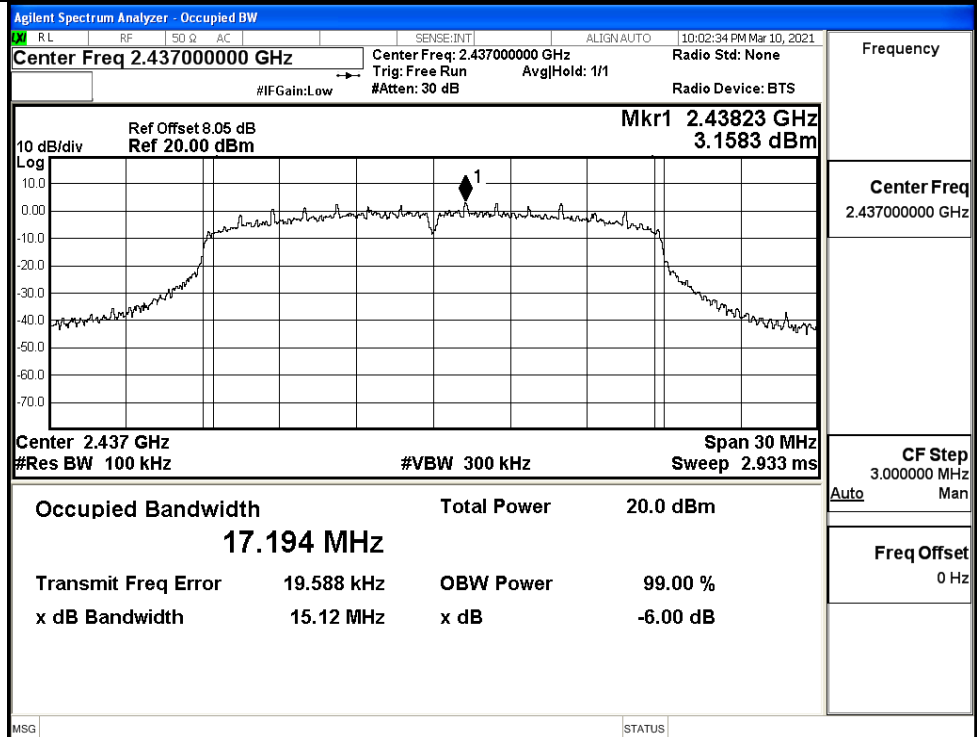
11N20SISO/LCH



Frequency

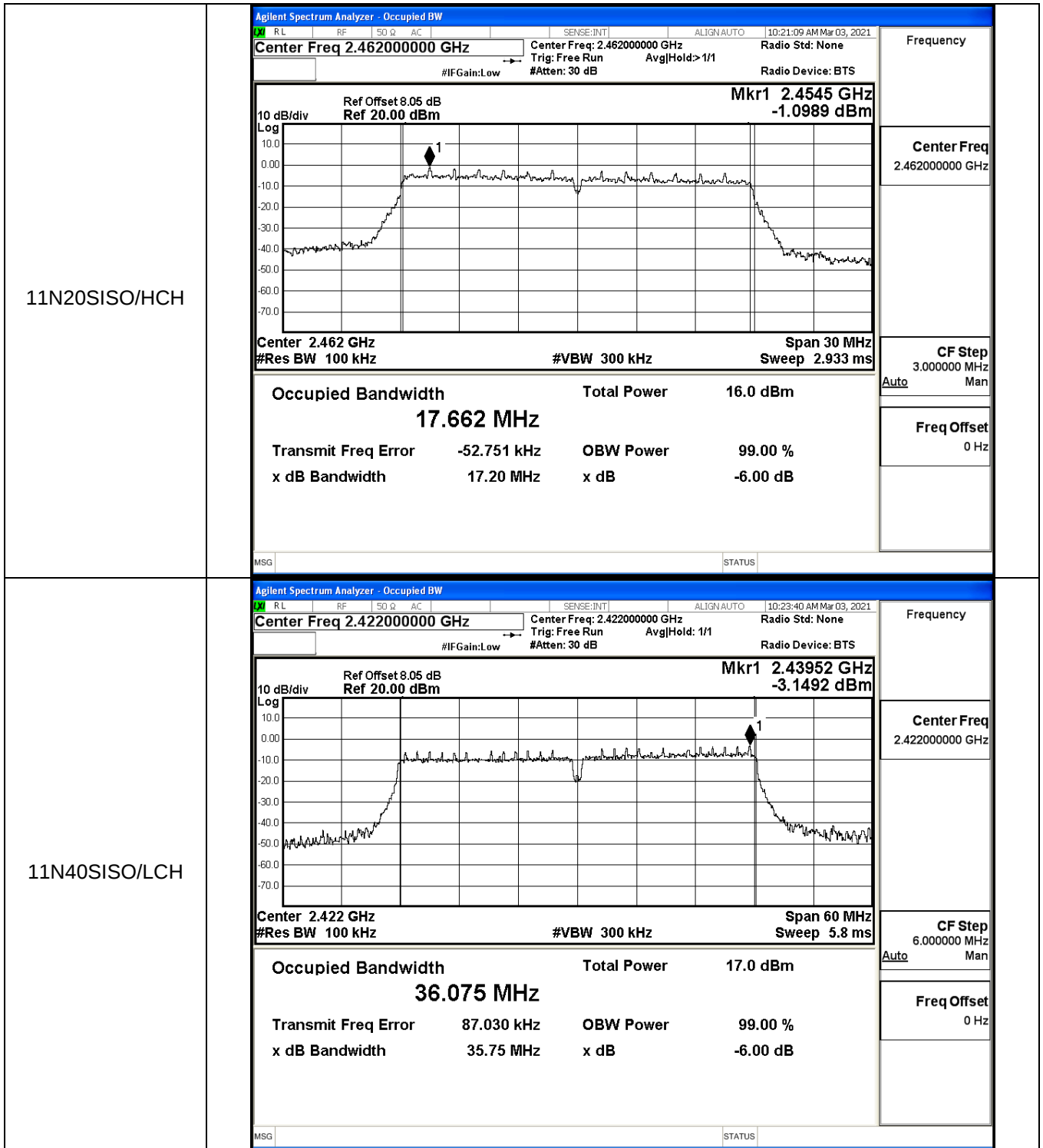
Center Freq
2.41200000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

11N20SISO/MCH

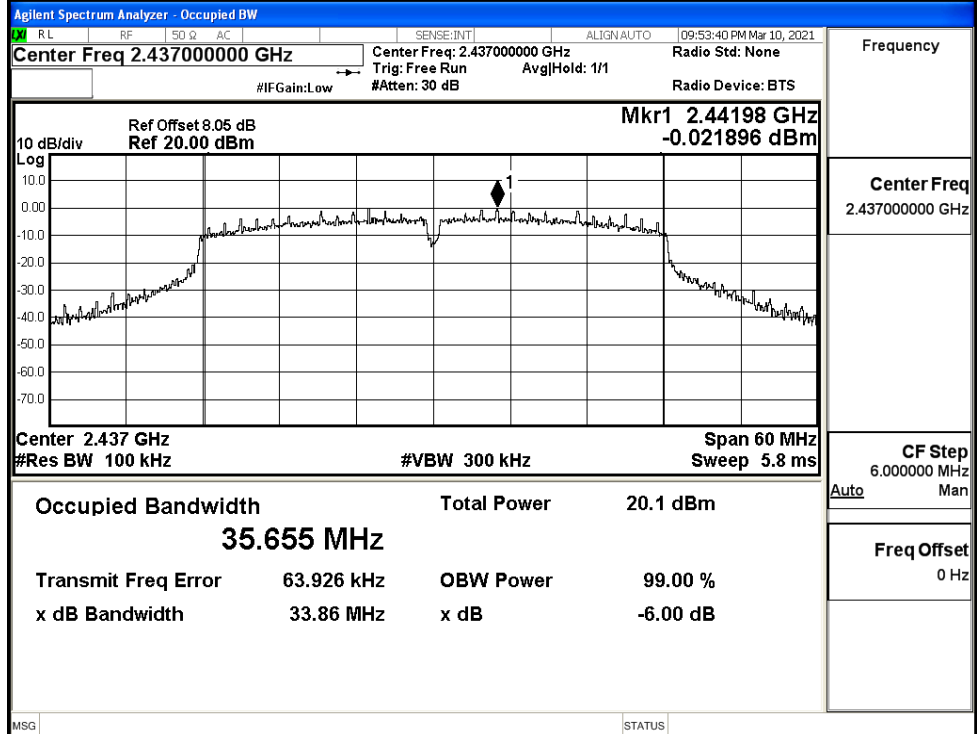


Frequency

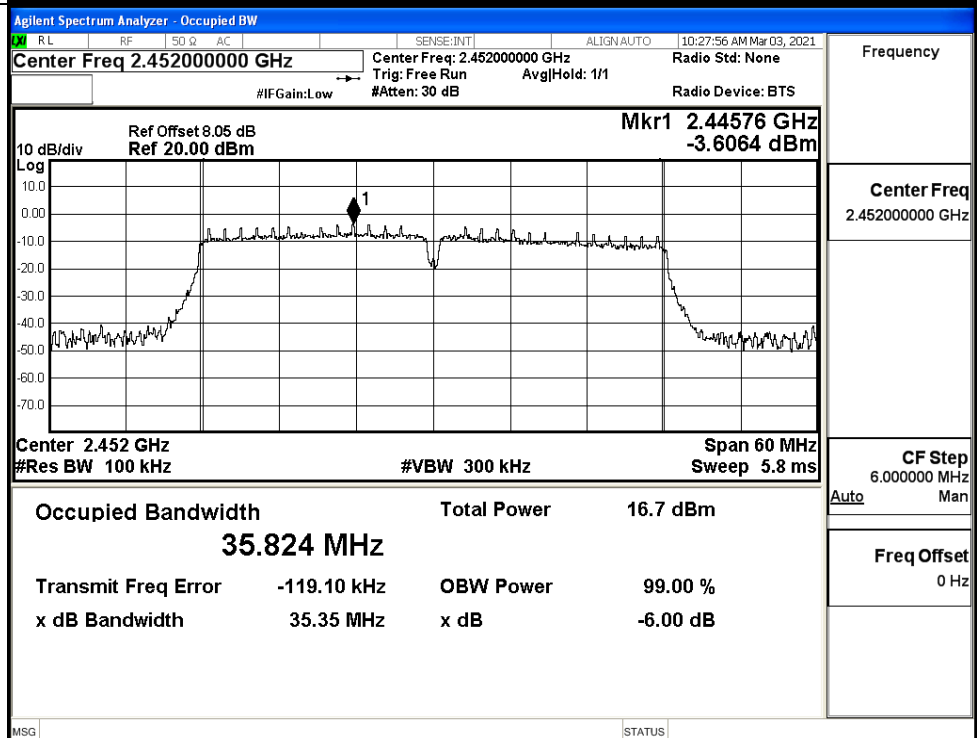
Center Freq
2.43700000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz



11N40SISO/MCH



11N40SISO/HCH



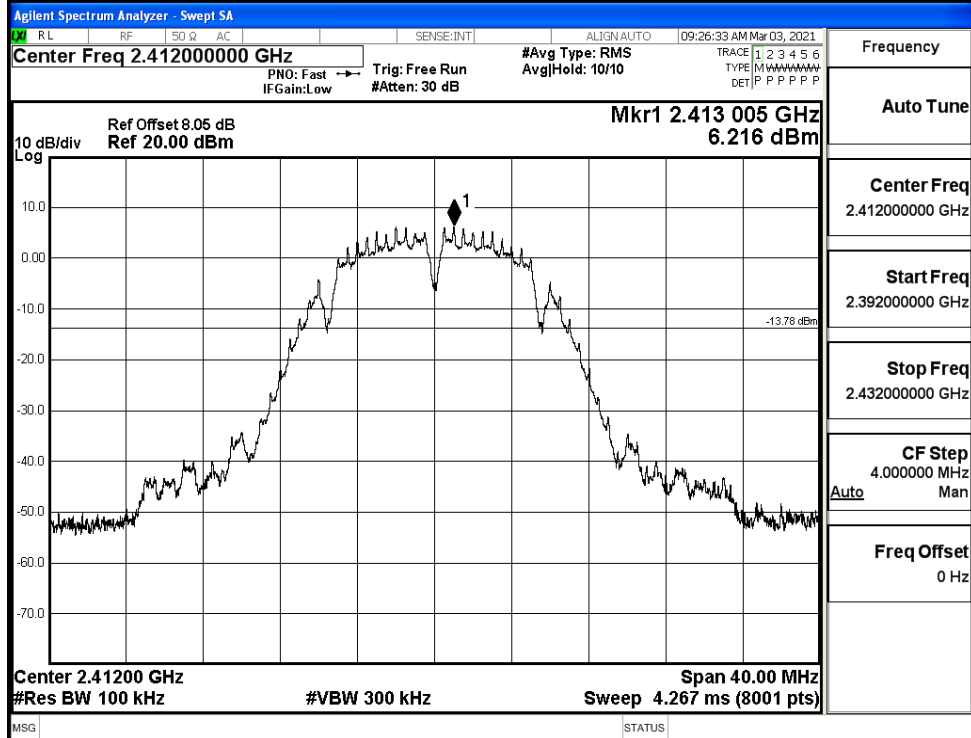
A.5 RF Conducted Spurious Emissions

ANT 0

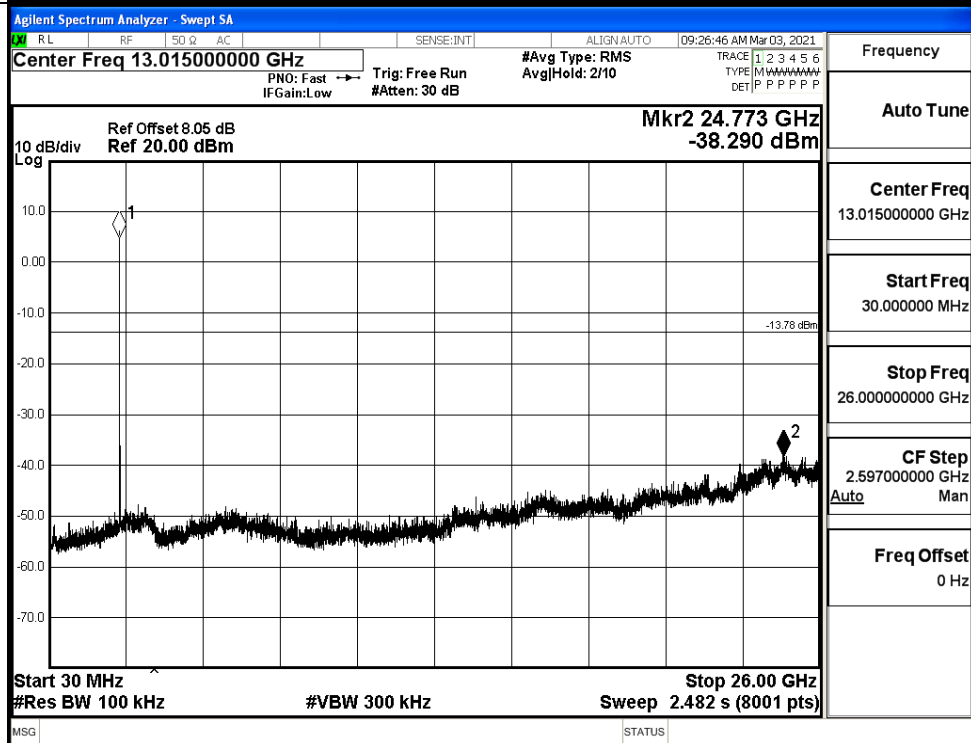
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	6.216	-38.290	-13.784	PASS
	MCH	9.37	-32.118	-10.630	PASS
	HCH	5.512	-38.049	-14.488	PASS
11G	LCH	-1.244	-38.343	-21.244	PASS
	MCH	2.333	-37.283	-17.667	PASS
	HCH	-0.3	-37.931	-20.300	PASS
11N20 SISO	LCH	-1.151	-37.382	-21.151	PASS
	MCH	2.886	-38.102	-17.114	PASS
	HCH	-0.142	-38.128	-20.142	PASS
11N40 SISO	LCH	-2.048	-37.318	-22.048	PASS
	MCH	-0.102	-37.887	-20.102	PASS
	HCH	-4.081	-38.079	-24.081	PASS

11B LCH Graphs

Pref/11B/LCH

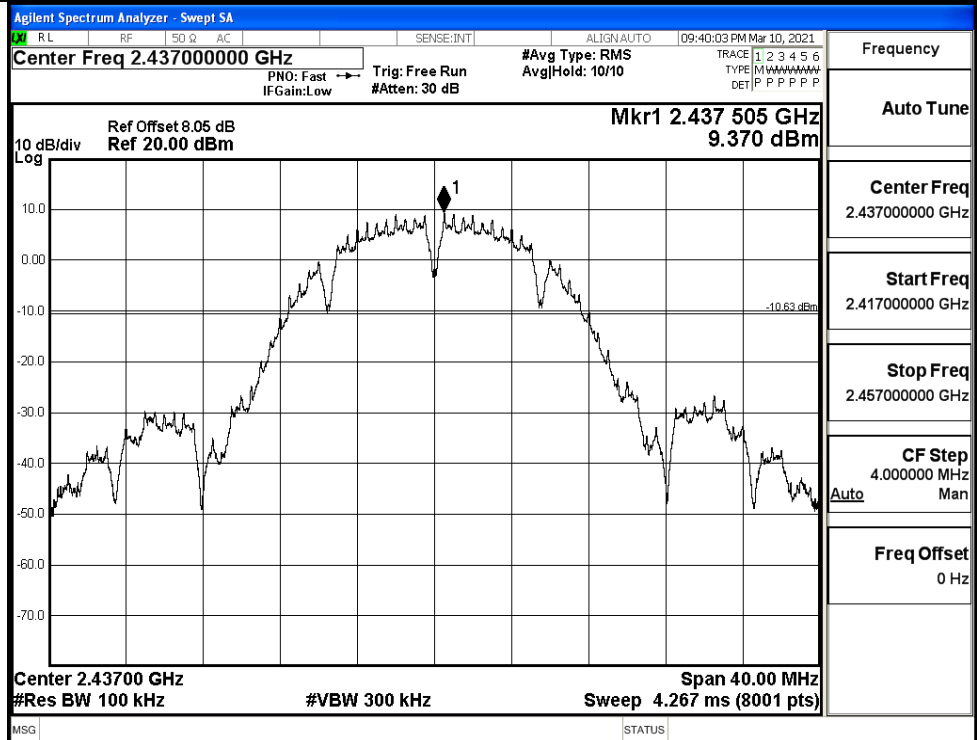


Puw/11B/LCH

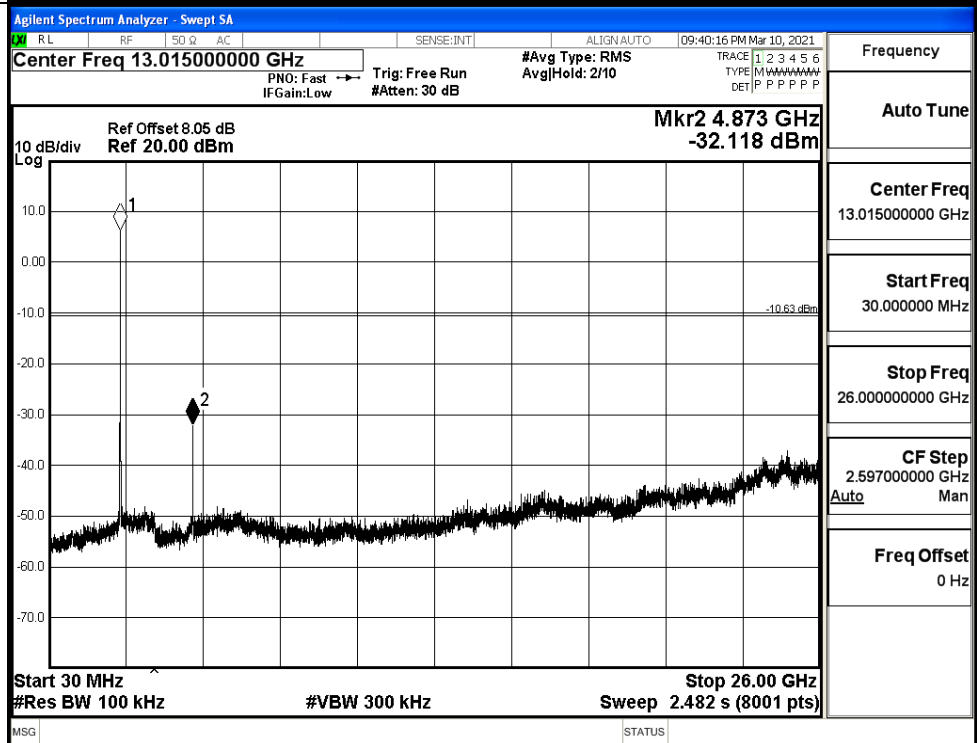


11B MCH Graphs

Pref/11B/MCH

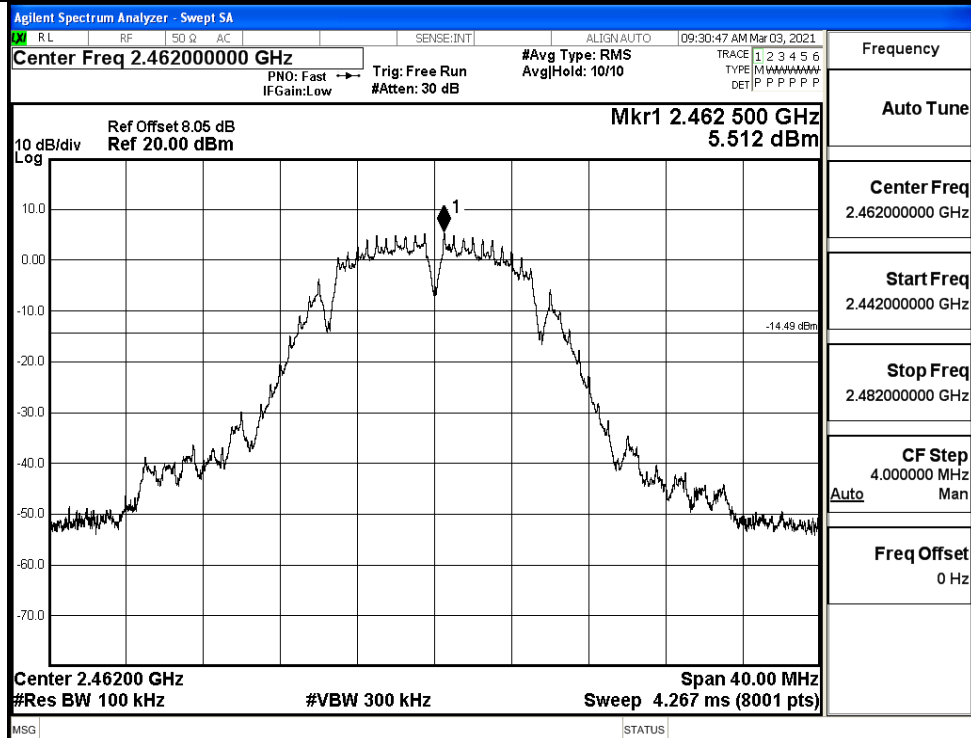


Puw/11B/MCH

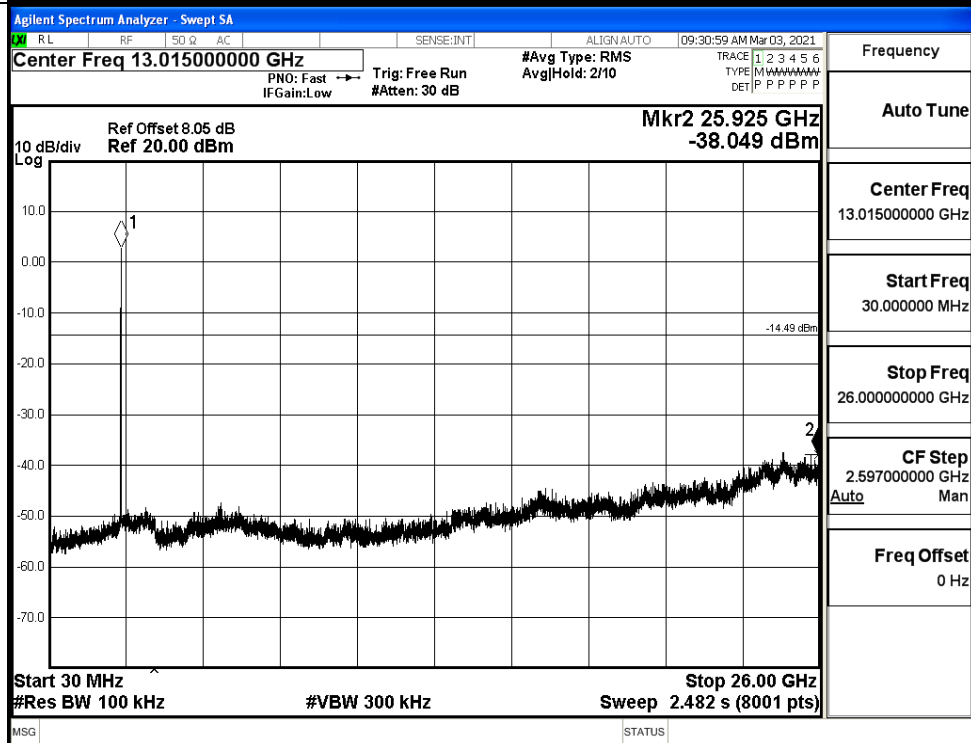


11B HCH Graphs

Pref/11B/HCH

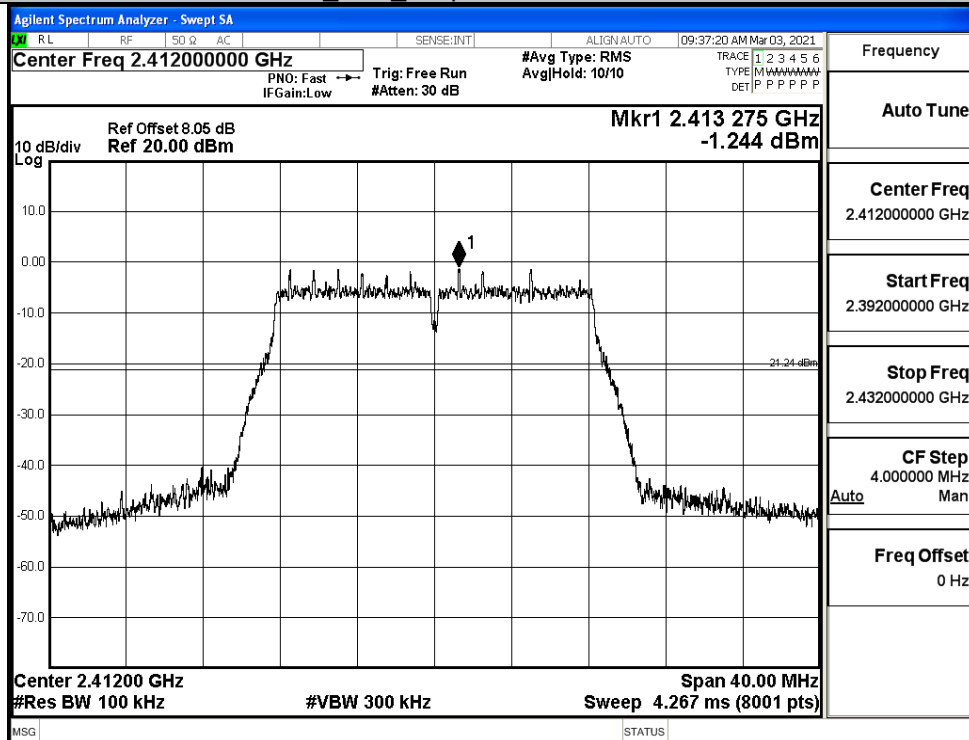


Puw/11B/HCH

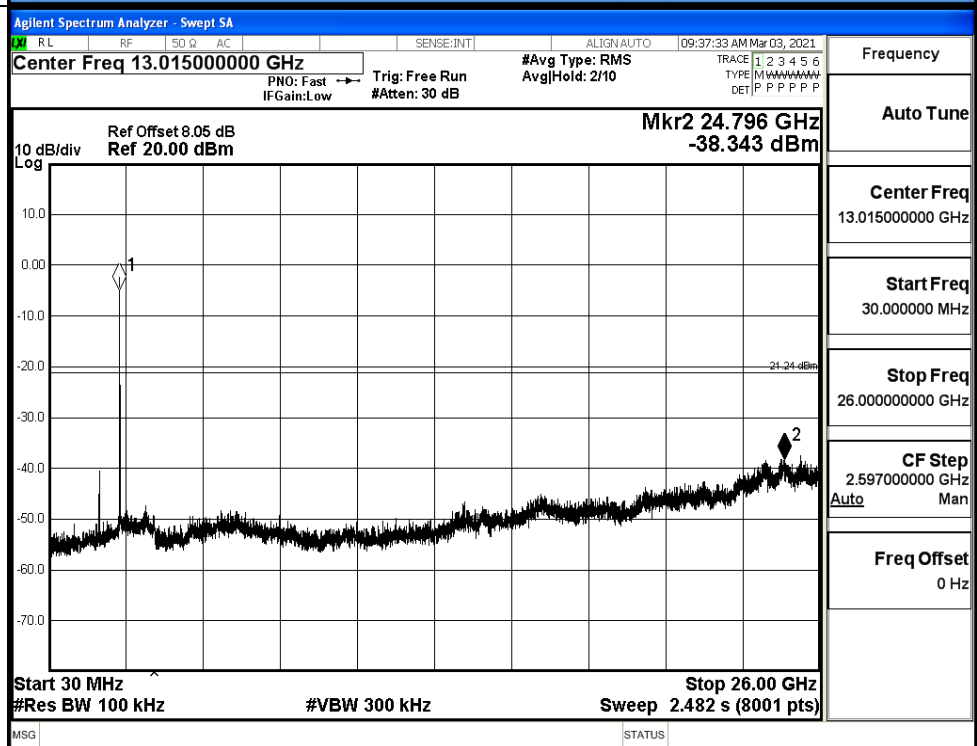


11G LCH Graphs

Pref/11G/LCH

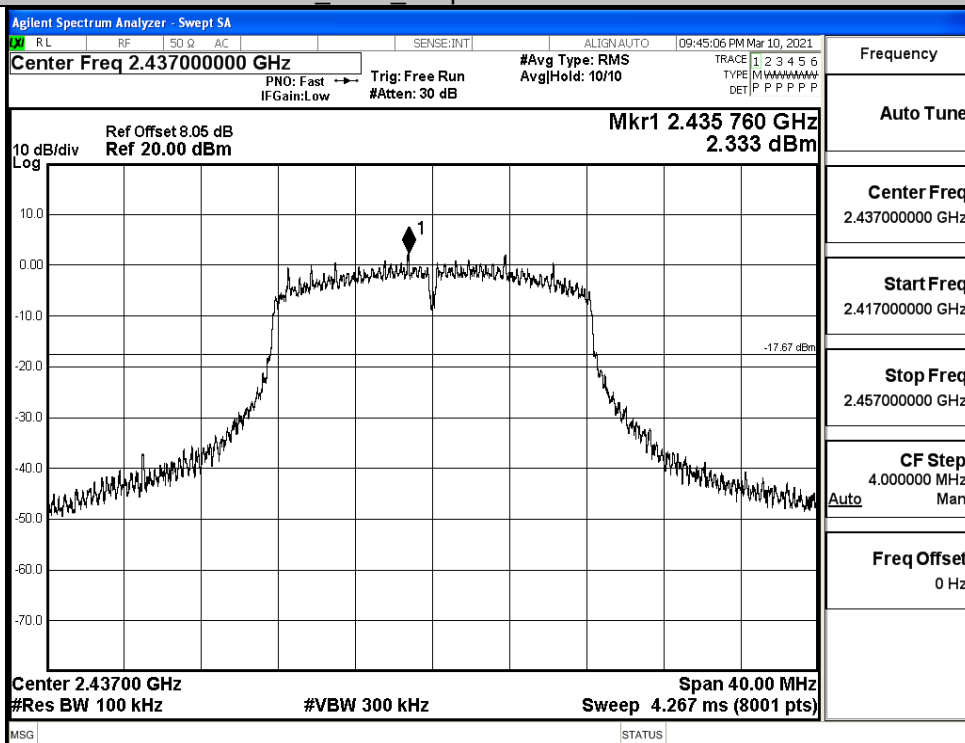


Puw/11G/LCH

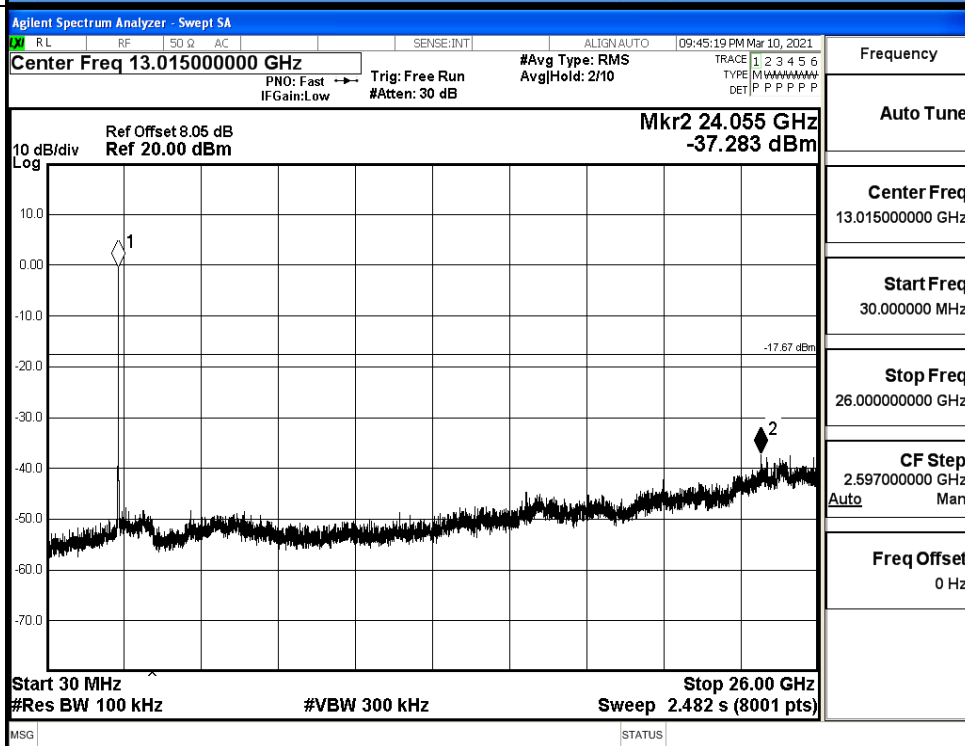


11G MCH Graphs

Pref/11G/MCH

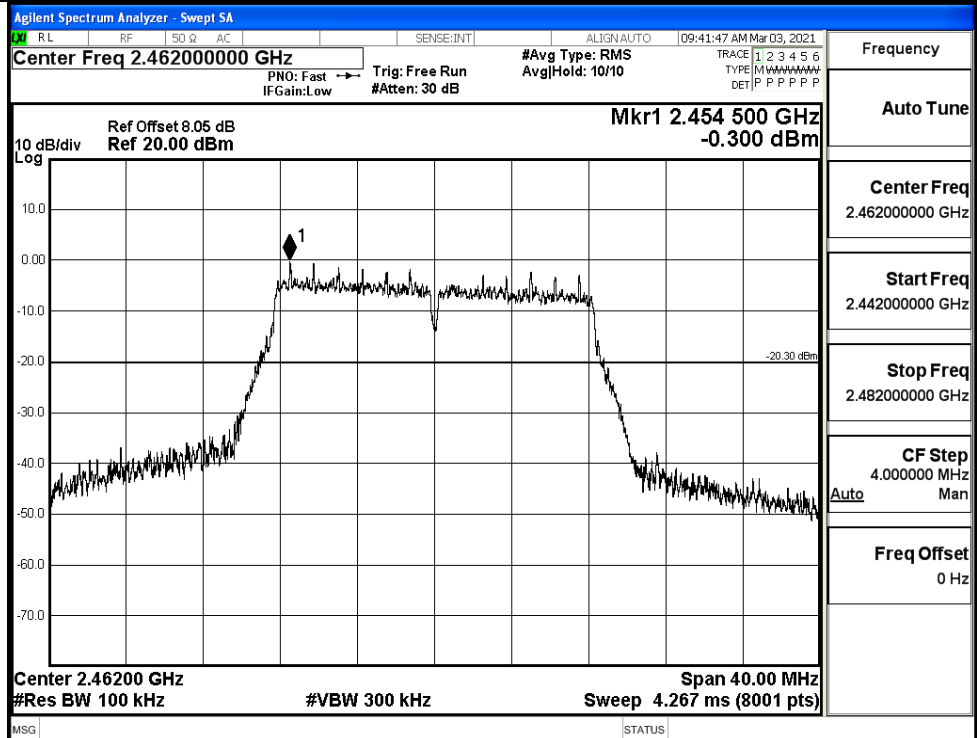


Puw/11G/MCH

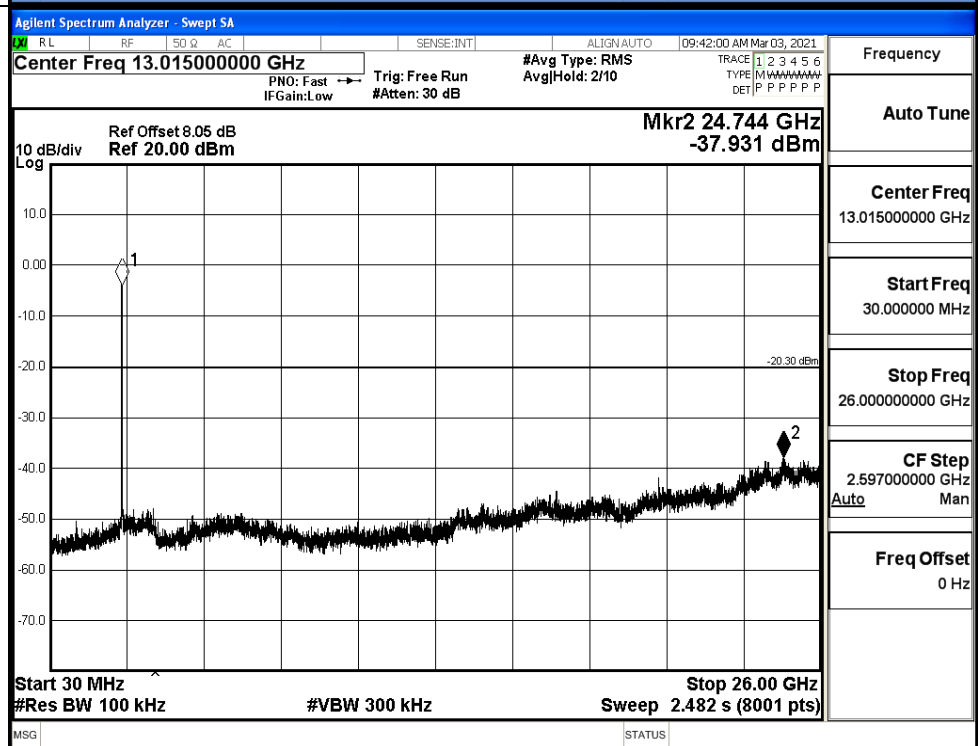


11G HCH Graphs

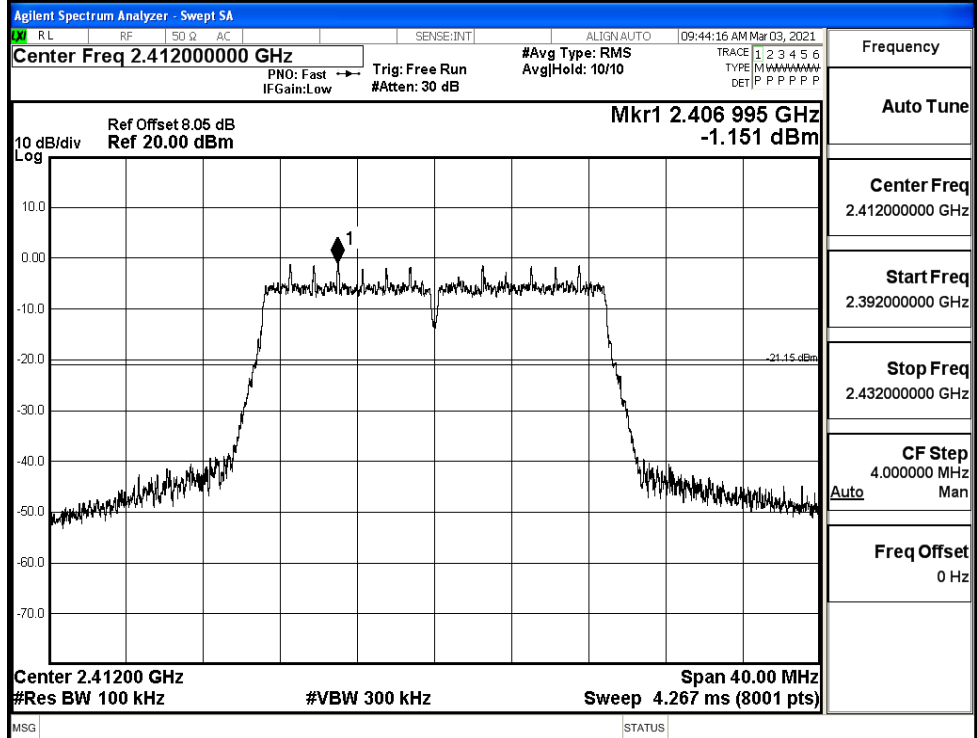
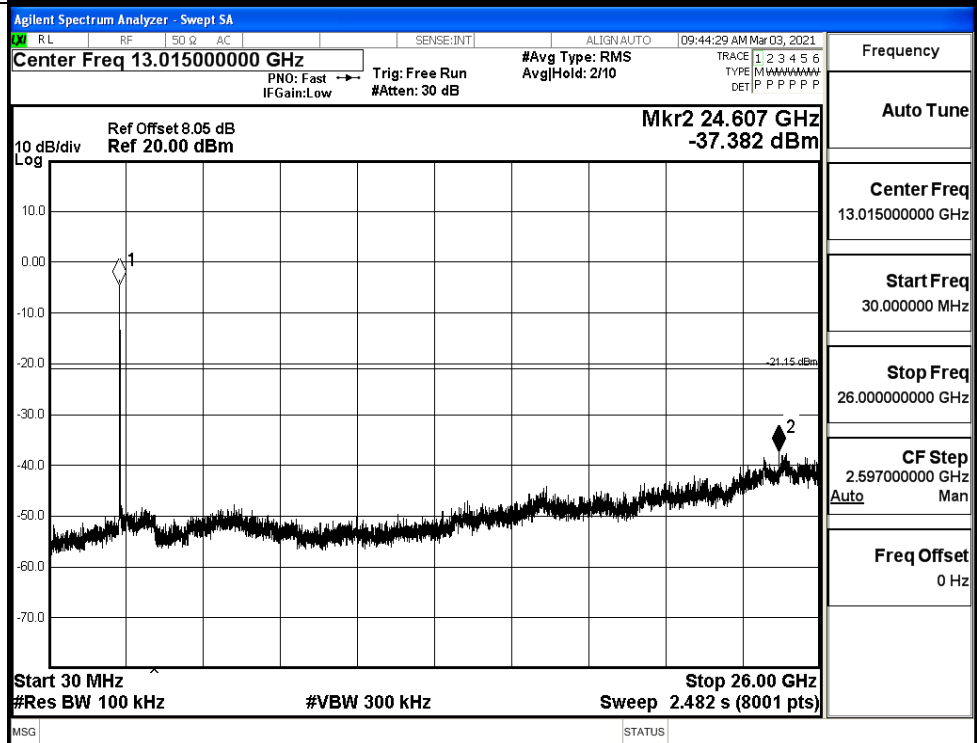
Pref/11G/HCH



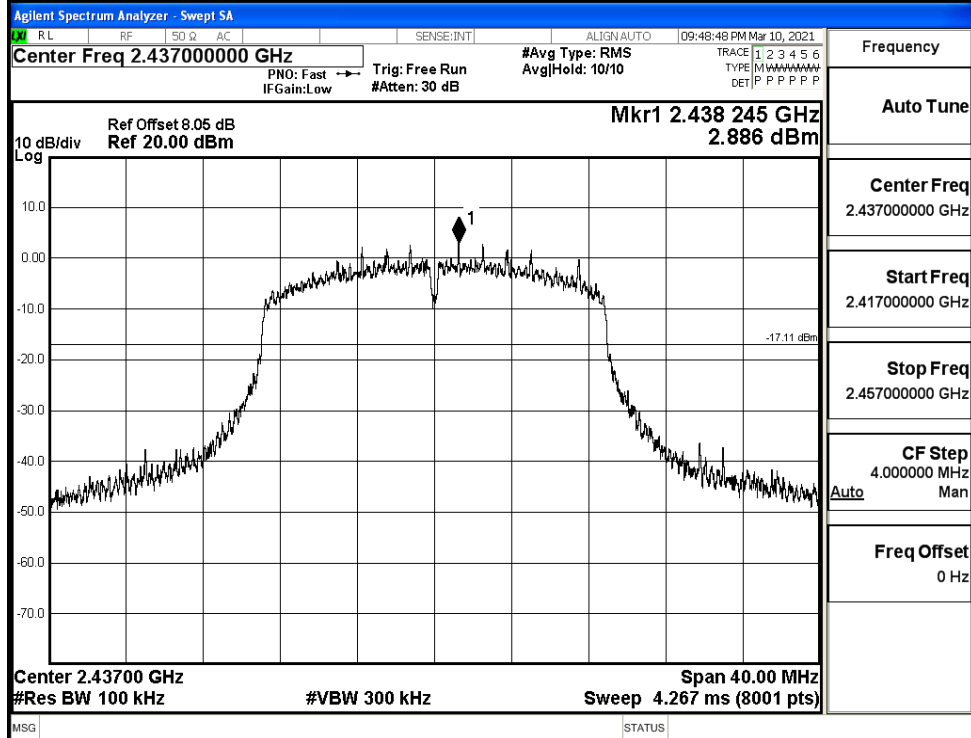
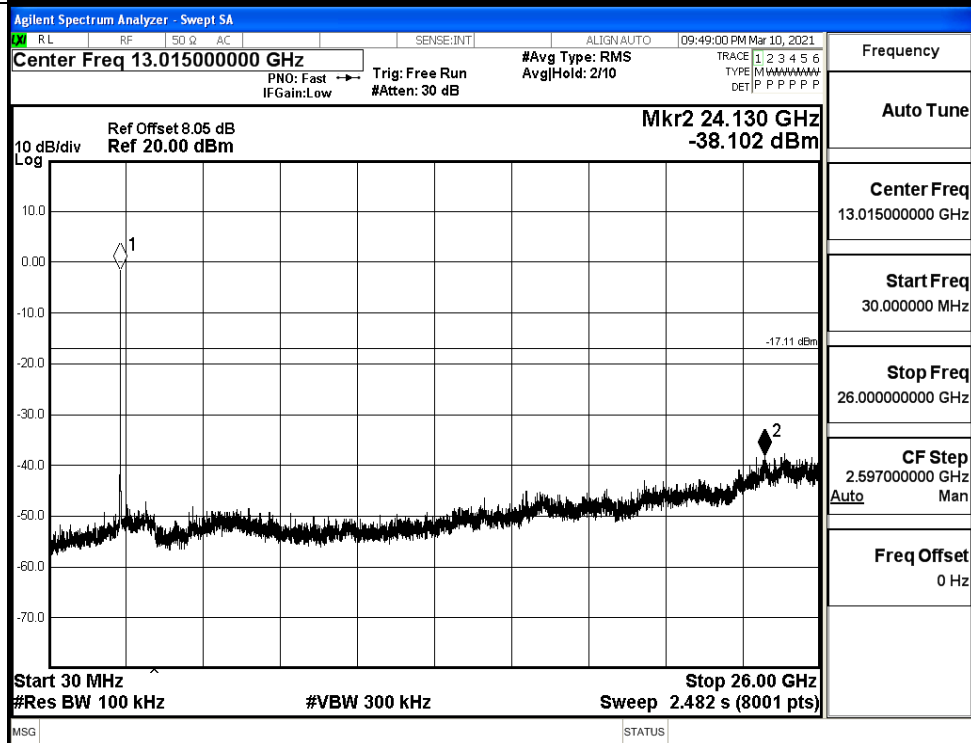
Puw/11G/HCH



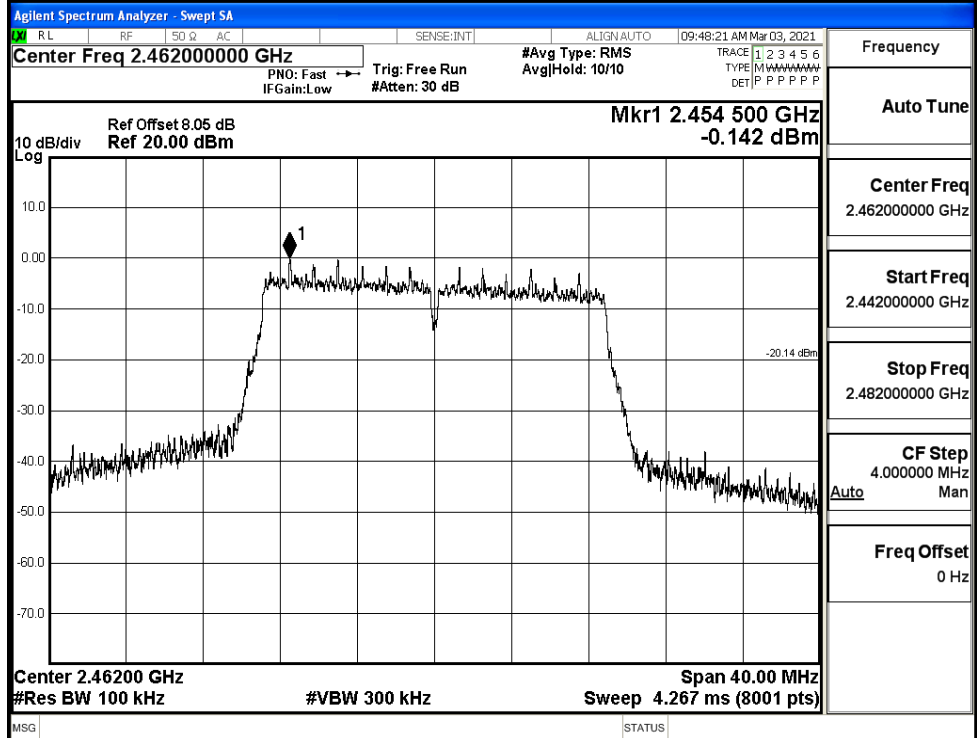
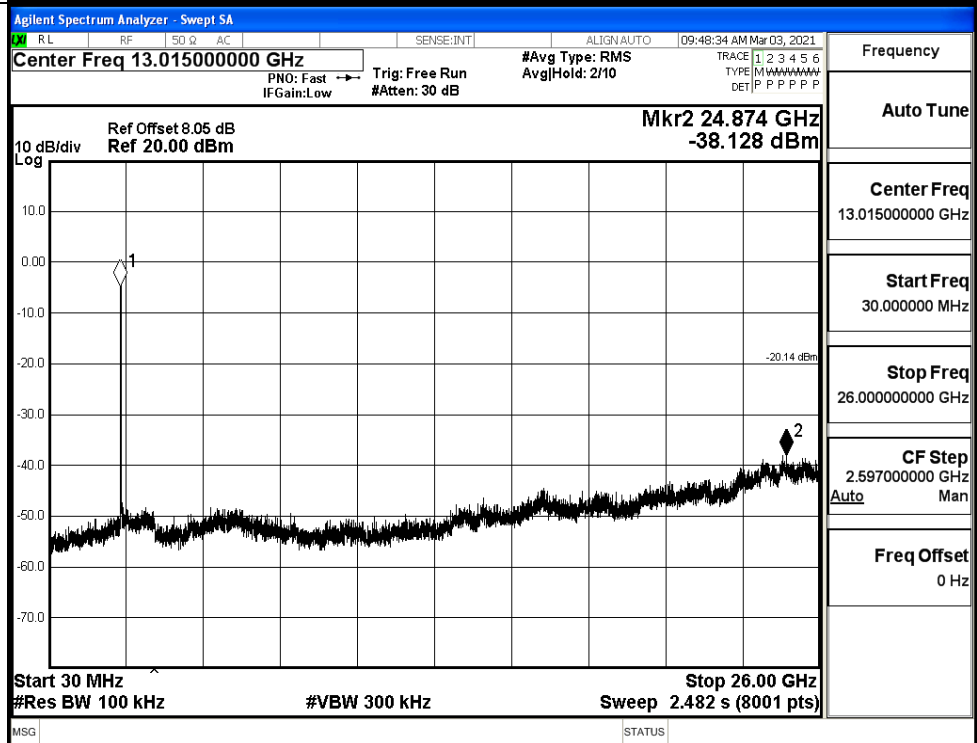
11N20SISO LCH Graphs

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

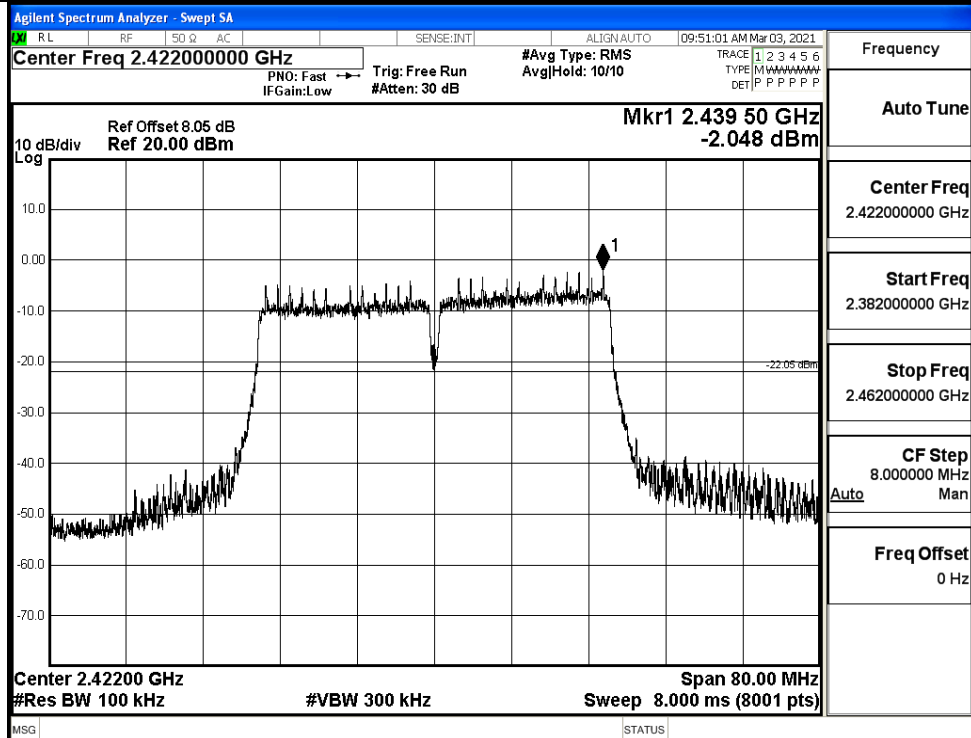
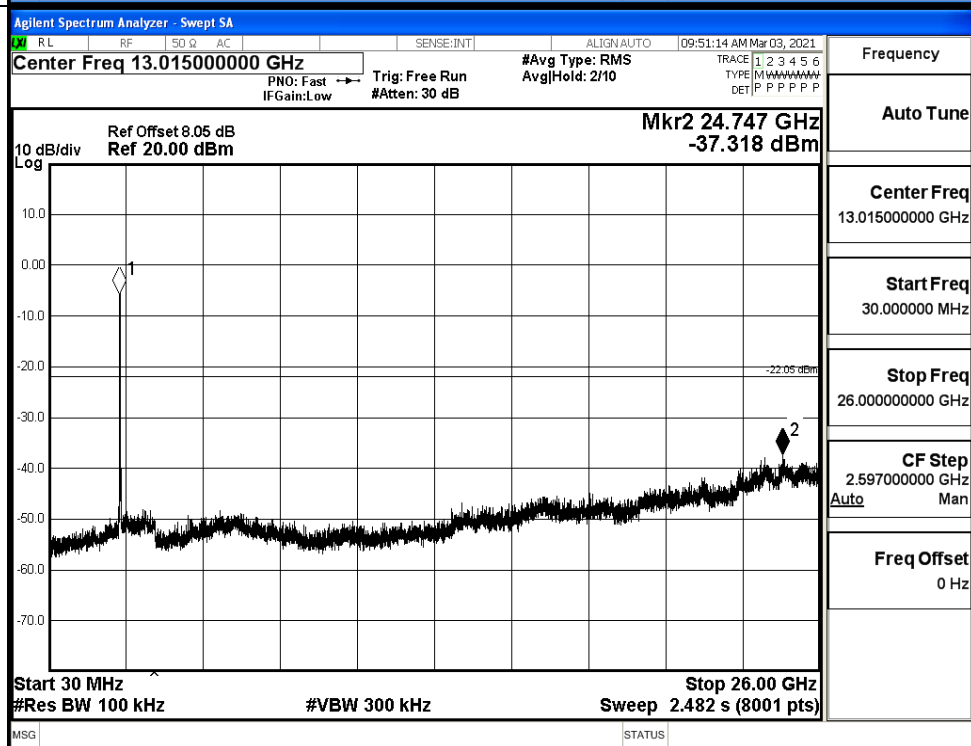
11N20SISO_MCH_Graphs

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

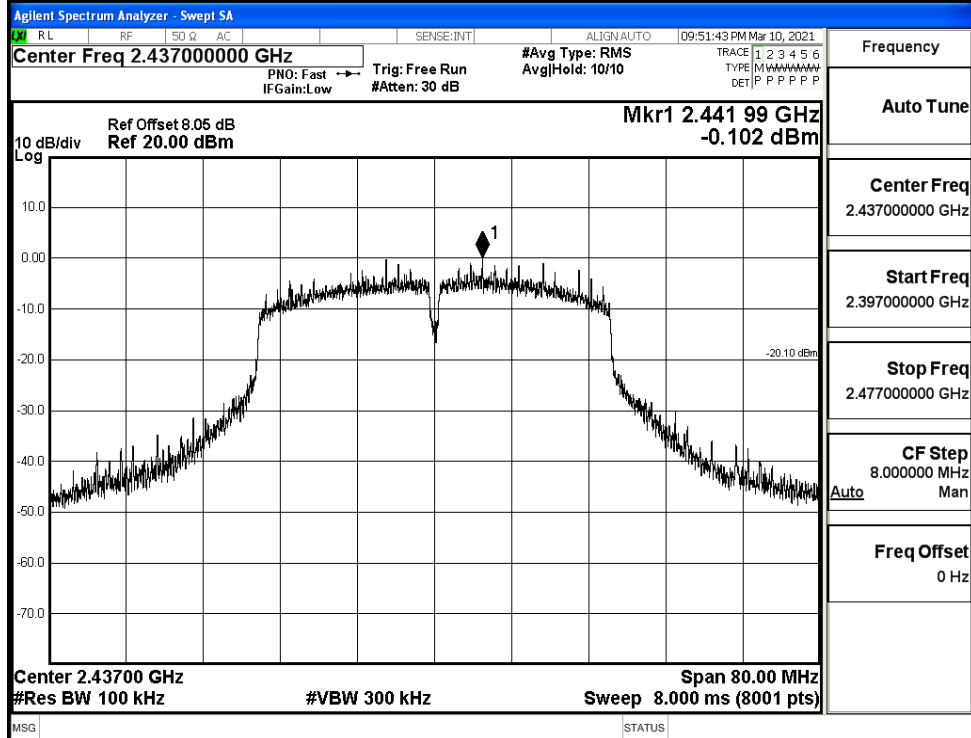
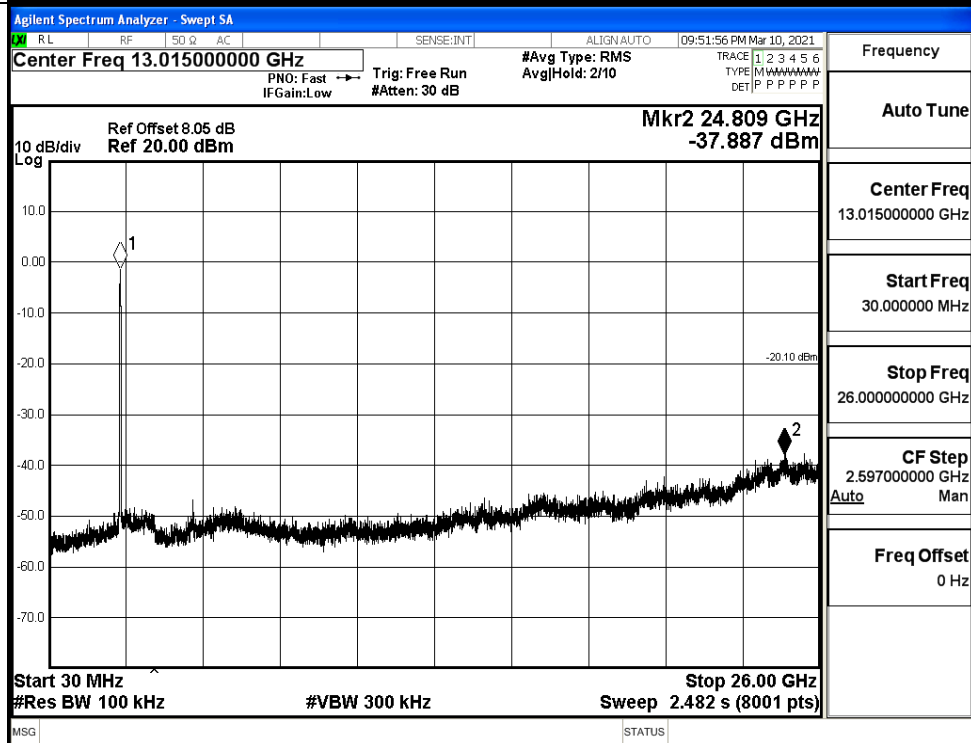
11N20SISO HCH Graphs

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

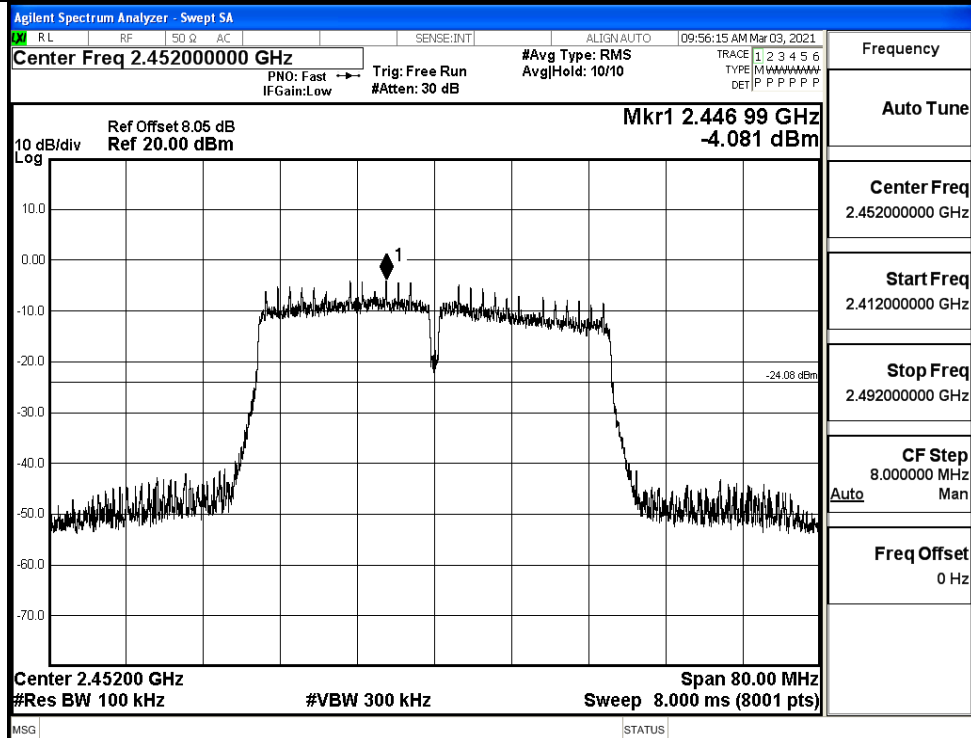
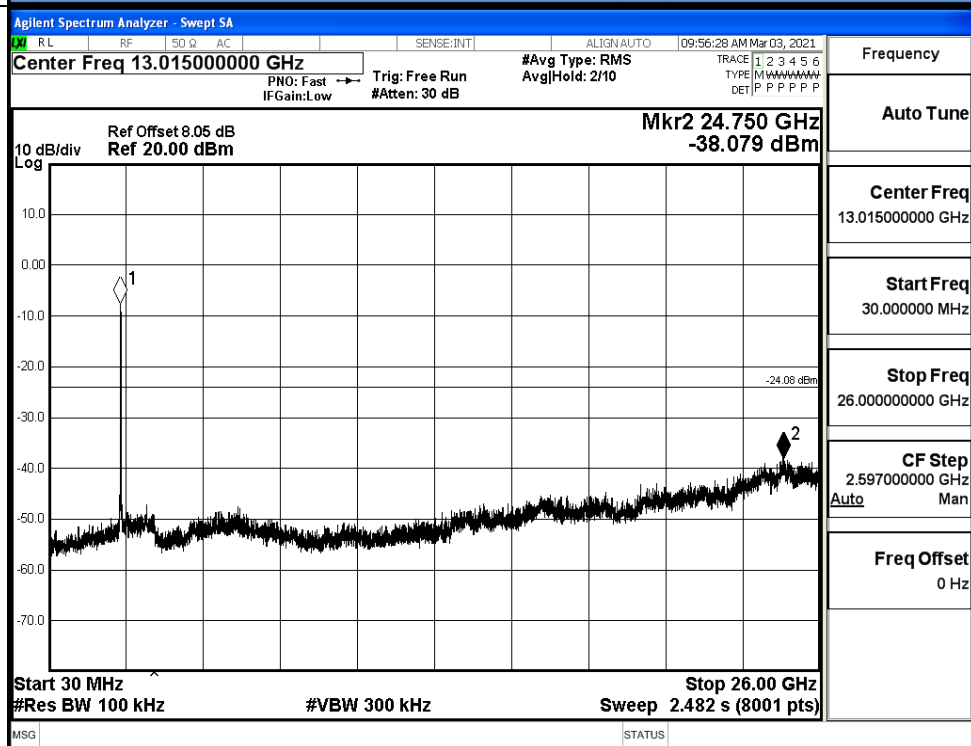
11N40SISO LCH Graphs

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

11N40SISO_MCH_Graphs

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

11N40SISO HCH Graphs

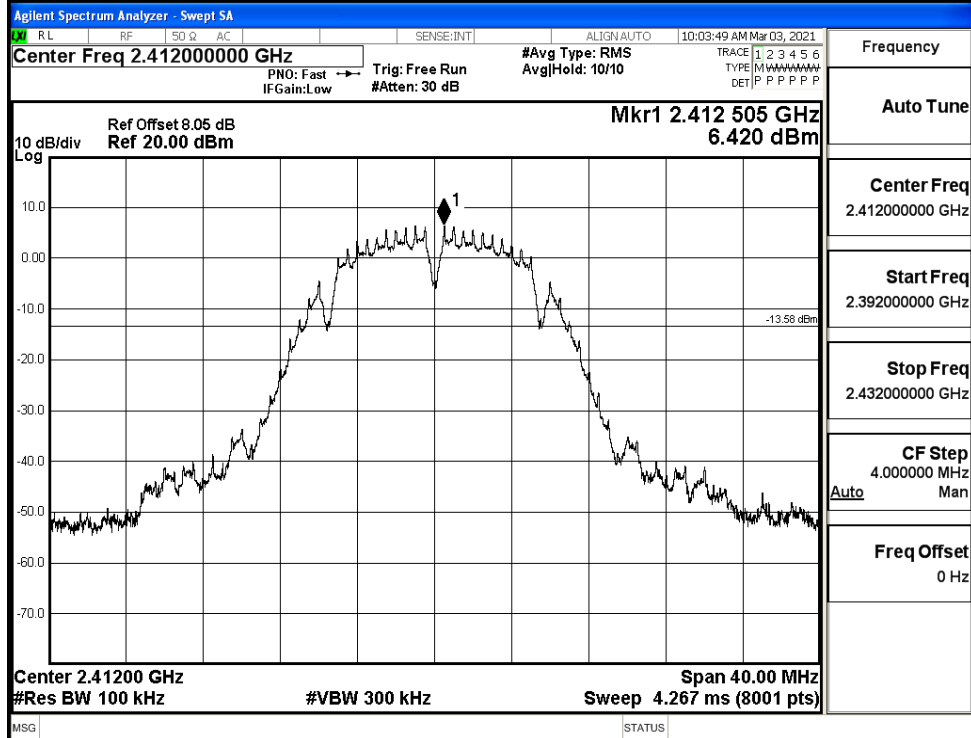
Pref/11N40
SISO/HCHPuw/11N40
SISO/HCH

ANT 1

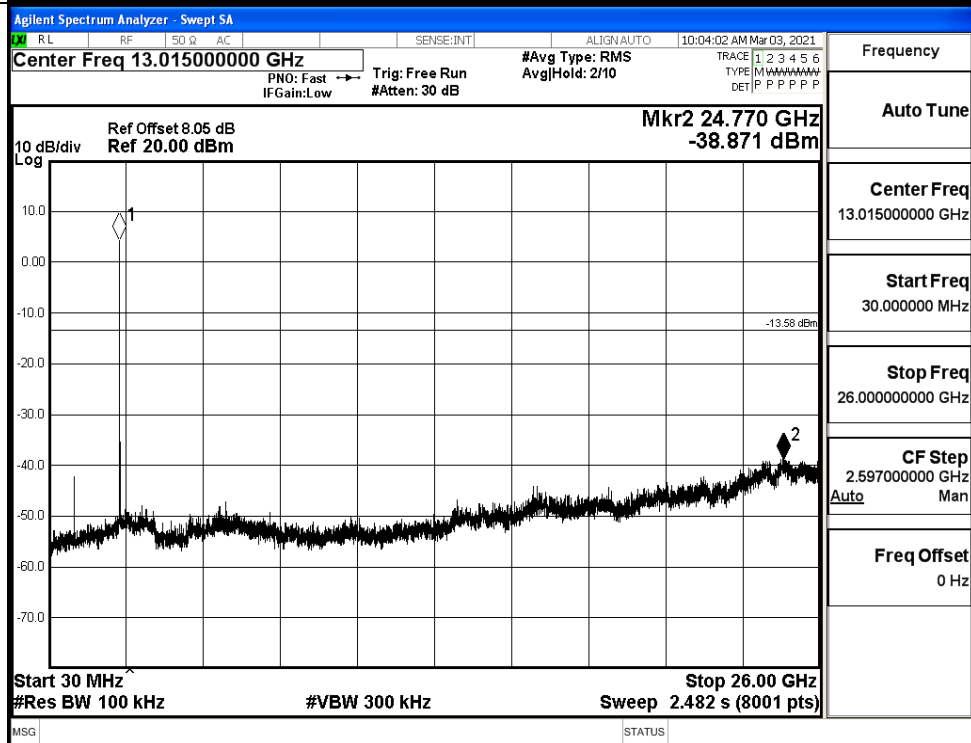
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	6.42	-38.871	-13.580	PASS
	MCH	8.778	-32.276	-11.222	PASS
	HCH	6.258	-37.188	-13.742	PASS
11G	LCH	-2.089	-38.569	-22.089	PASS
	MCH	2.785	-38.268	-17.215	PASS
	HCH	-0.991	-38.061	-20.991	PASS
11N20 SISO	LCH	-1.707	-37.615	-21.707	PASS
	MCH	3.469	-36.664	-16.531	PASS
	HCH	-1.234	-38.364	-21.234	PASS
11N40 SISO	LCH	-3.178	-37.678	-23.178	PASS
	MCH	-0.169	-38.605	-20.169	PASS
	HCH	-3.512	-38.266	-23.512	PASS

11B LCH Graphs

Pref/11B/LCH

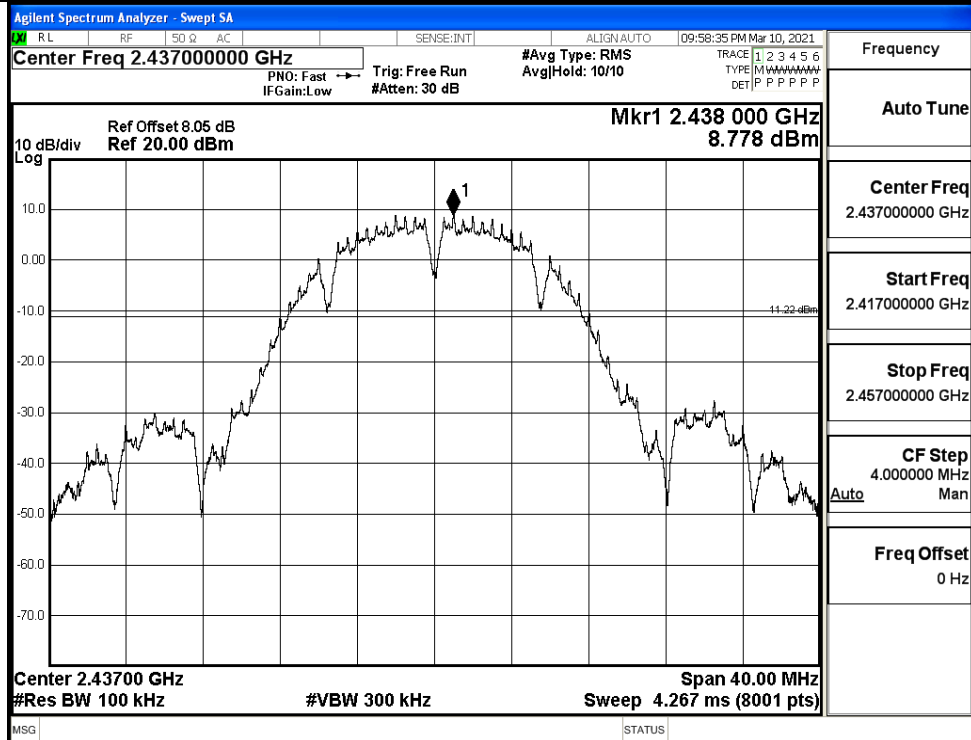


Puw/11B/LCH

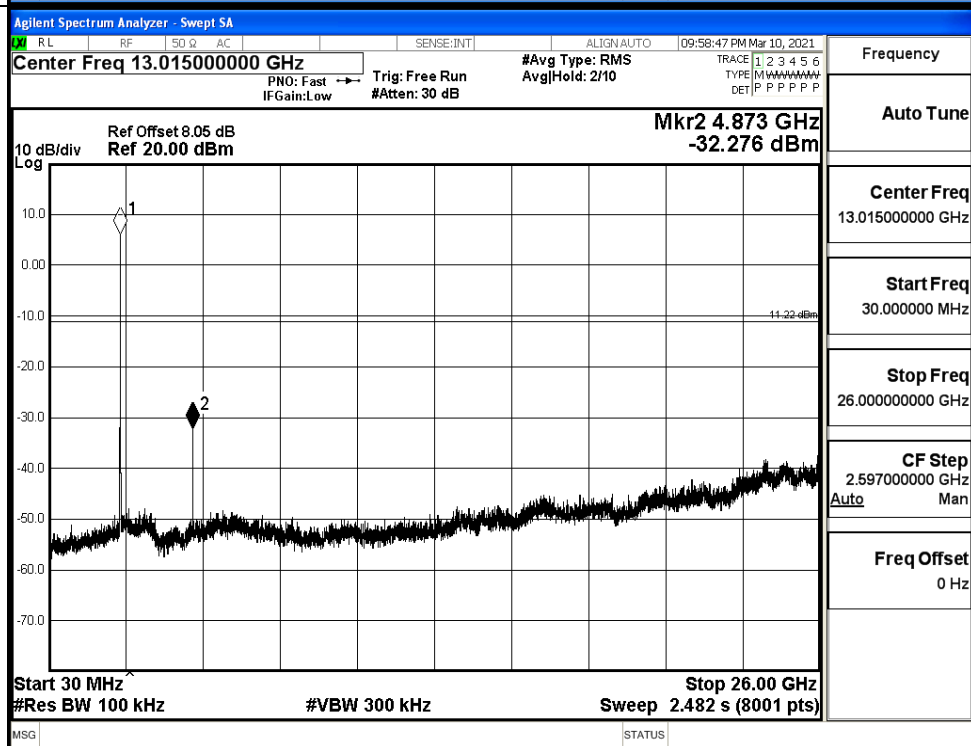


11B MCH Graphs

Pref/11B/MCH

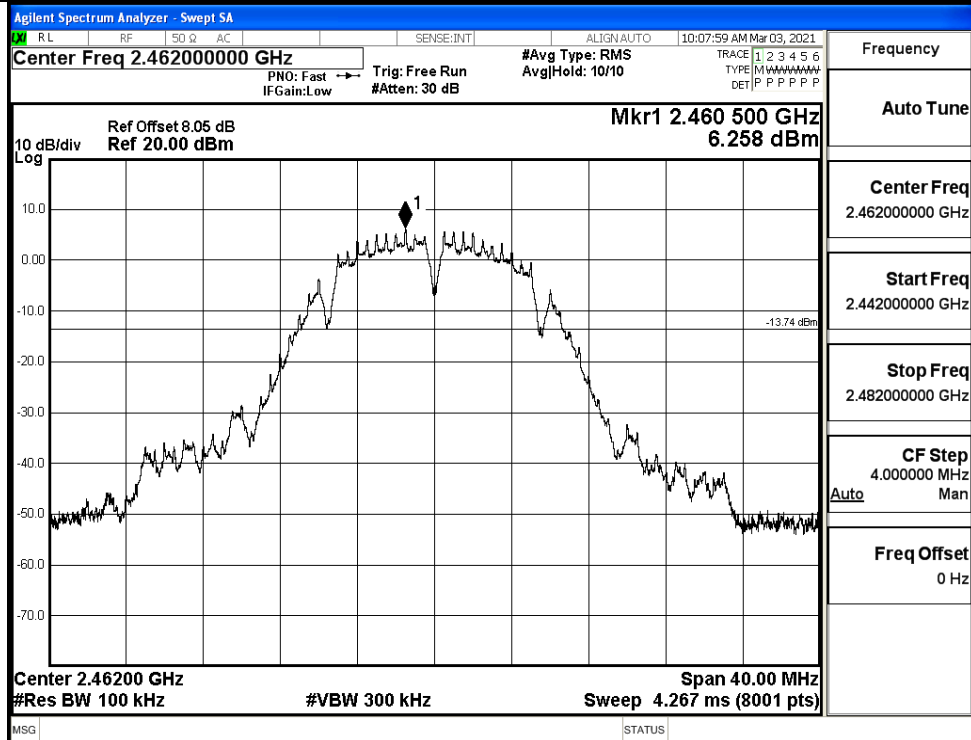


Puw/11B/MCH

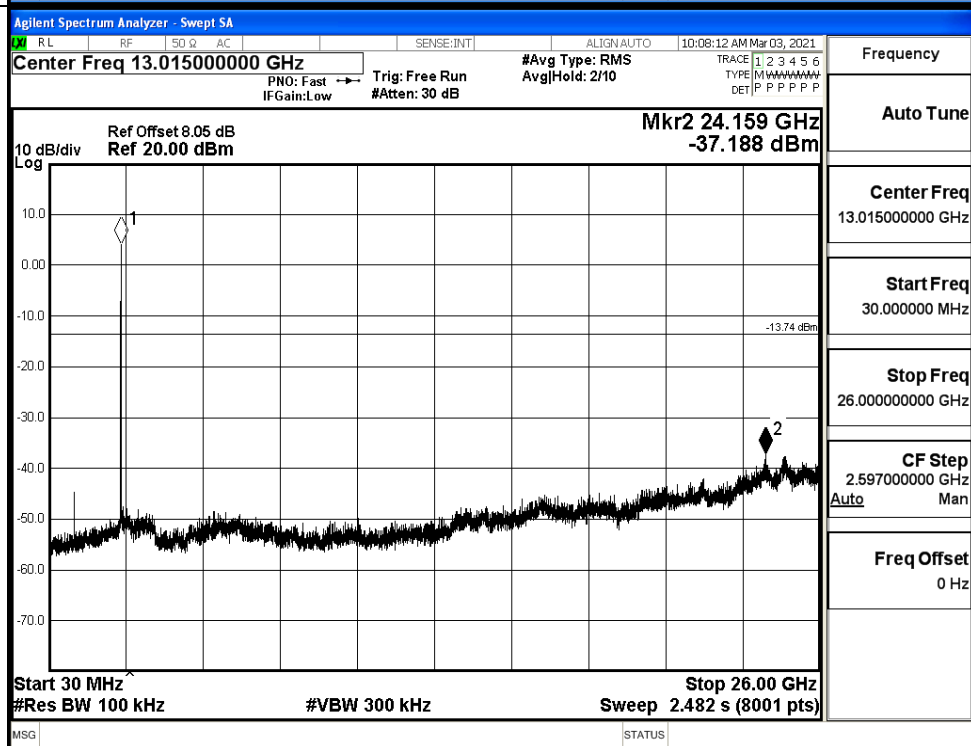


11B HCH Graphs

Pref/11B/HCH

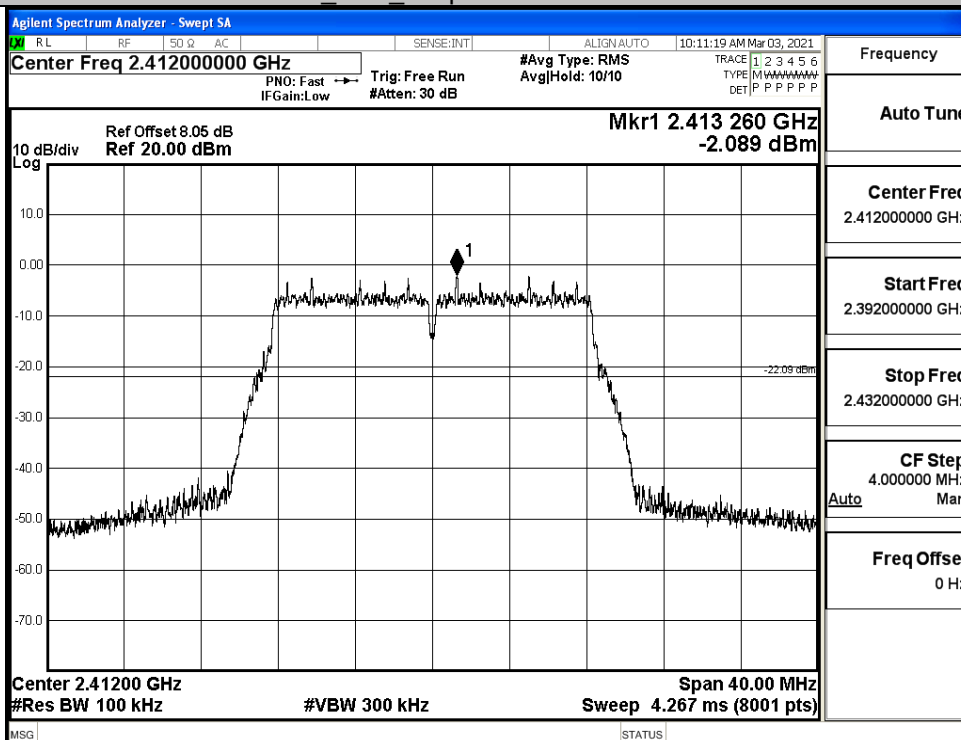


Puw/11B/HCH



11G_LCH_Graphs

Pref/11G/LCH



Puw/11G/LCH

