

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Laptop

Trade Mark: N/A

Test Model: ACL1

Environmental Conditions

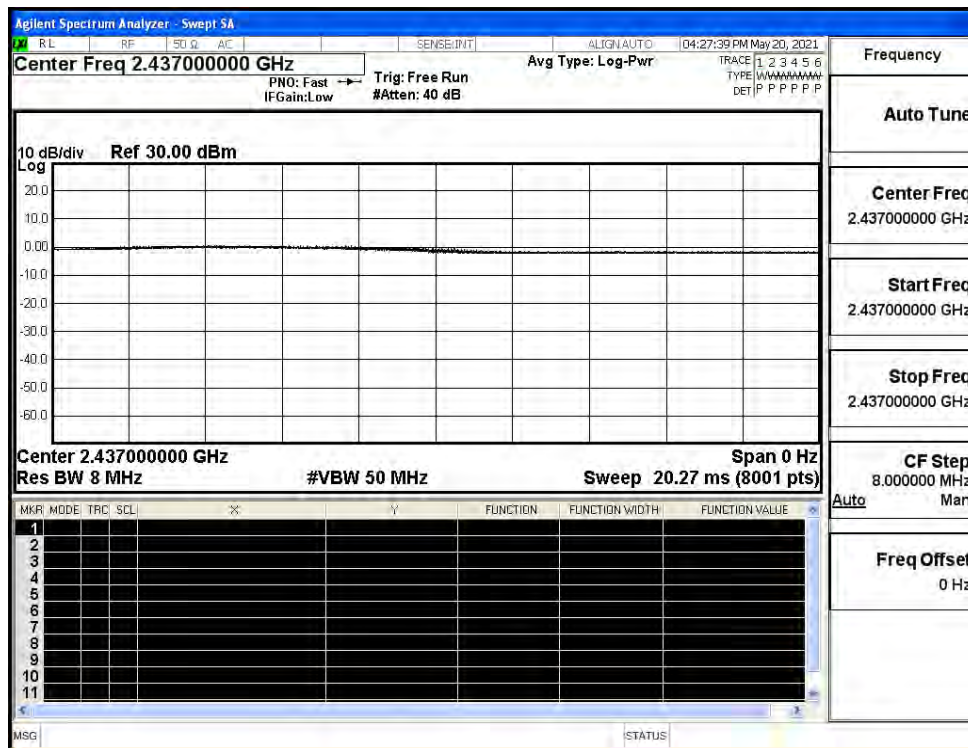
Temperature:	24.6° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan

C.1 Duty Cycle

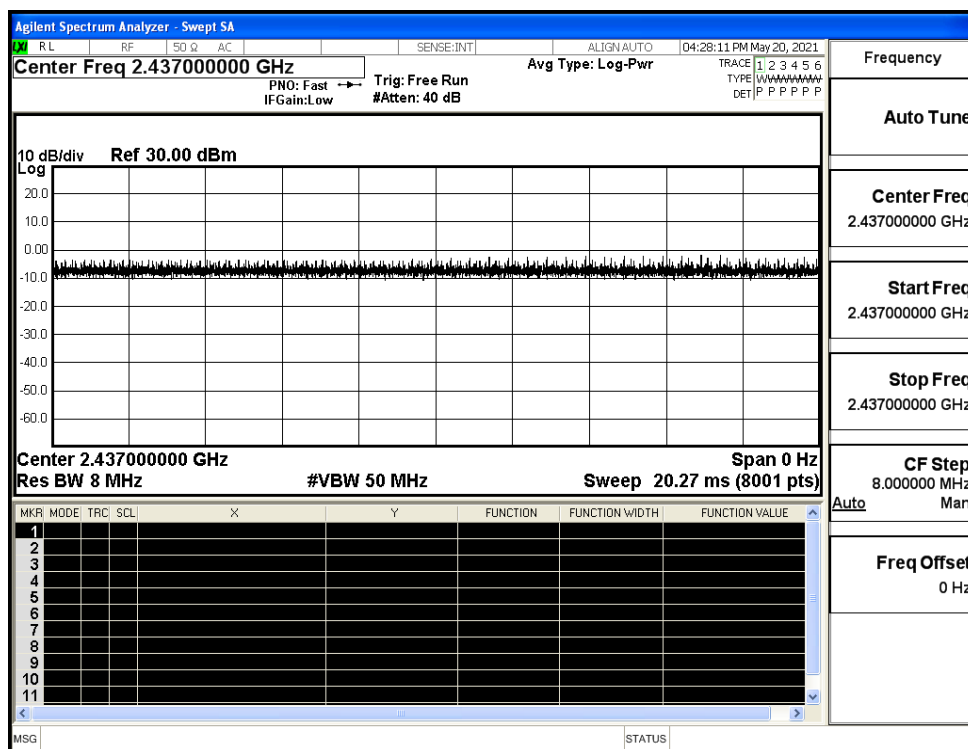
ANT0

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

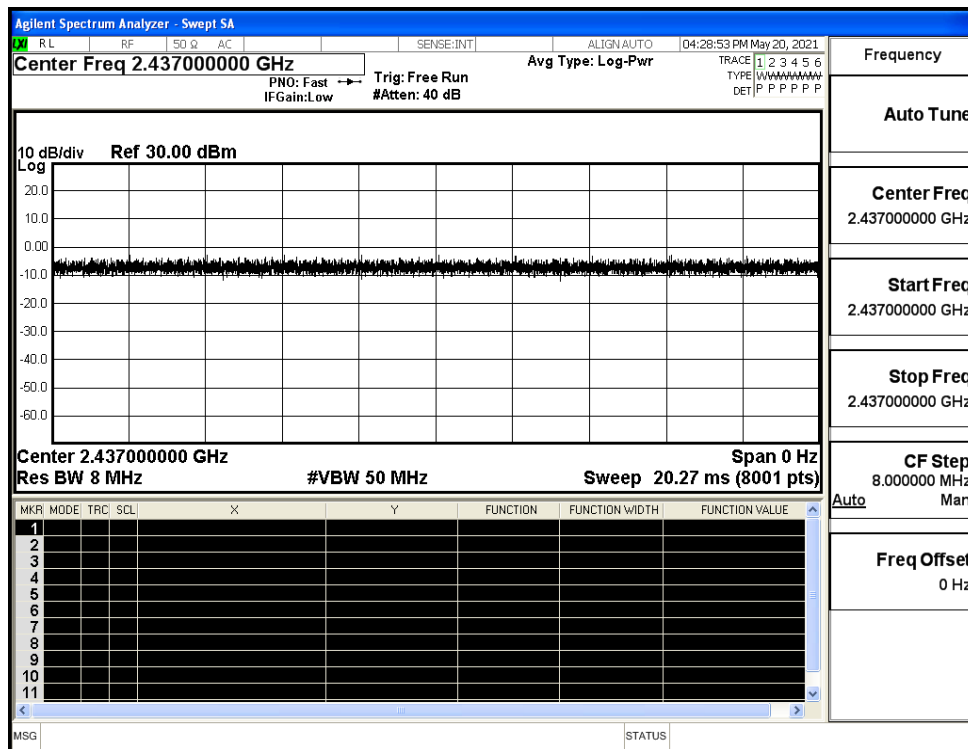
Duty Cycle_11B_2437_Ant1



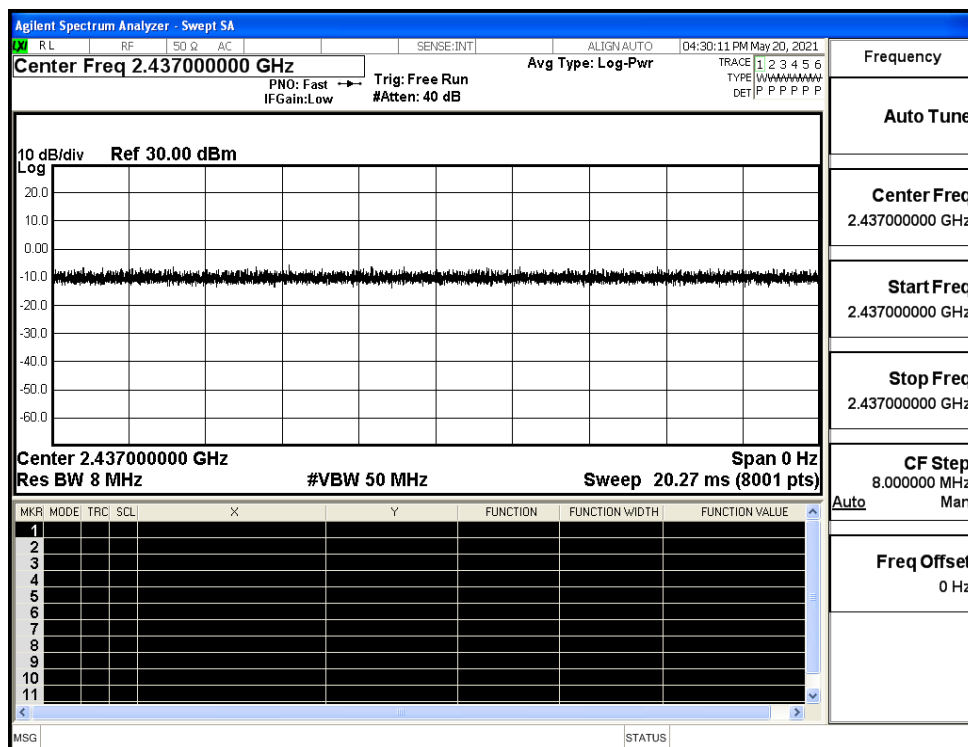
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



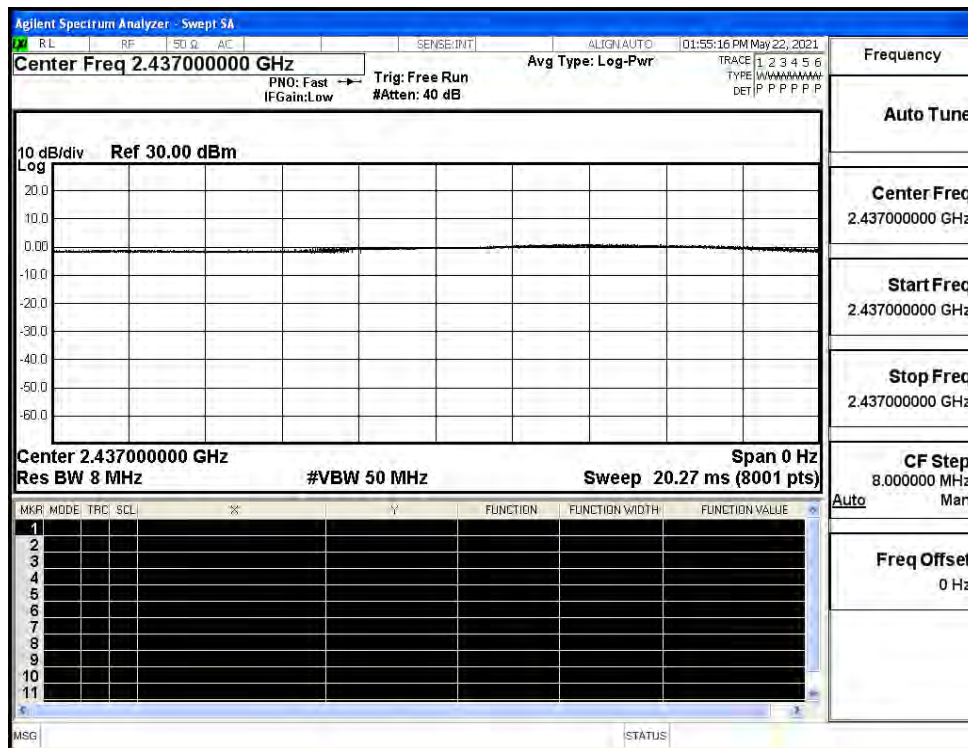
Duty Cycle_11N40SISO_2437_Ant1



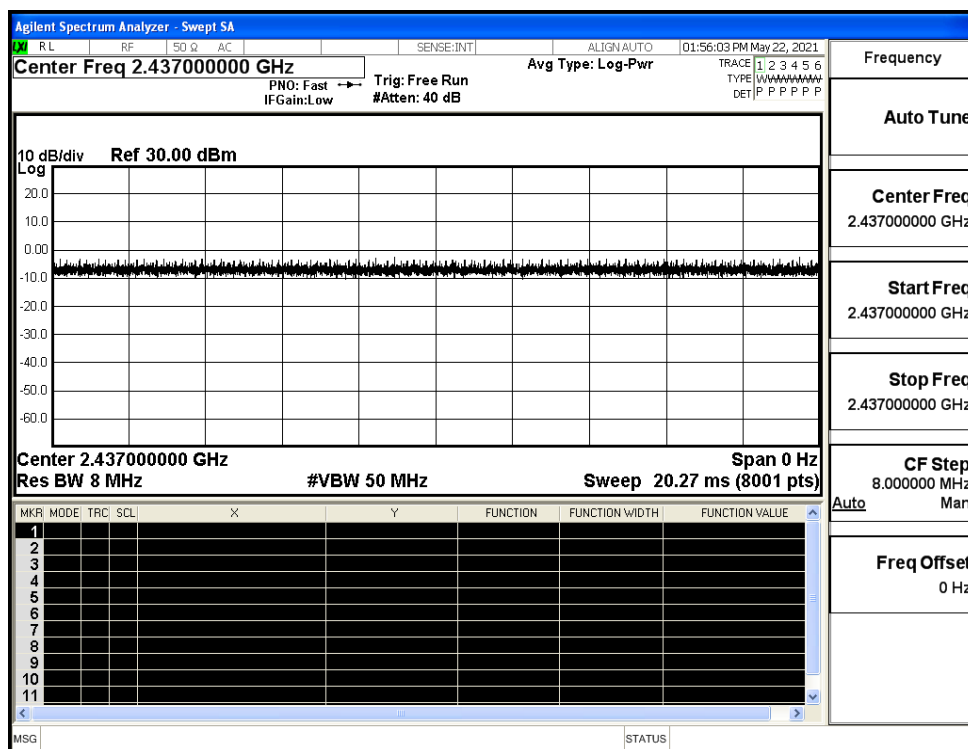
ANT1

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

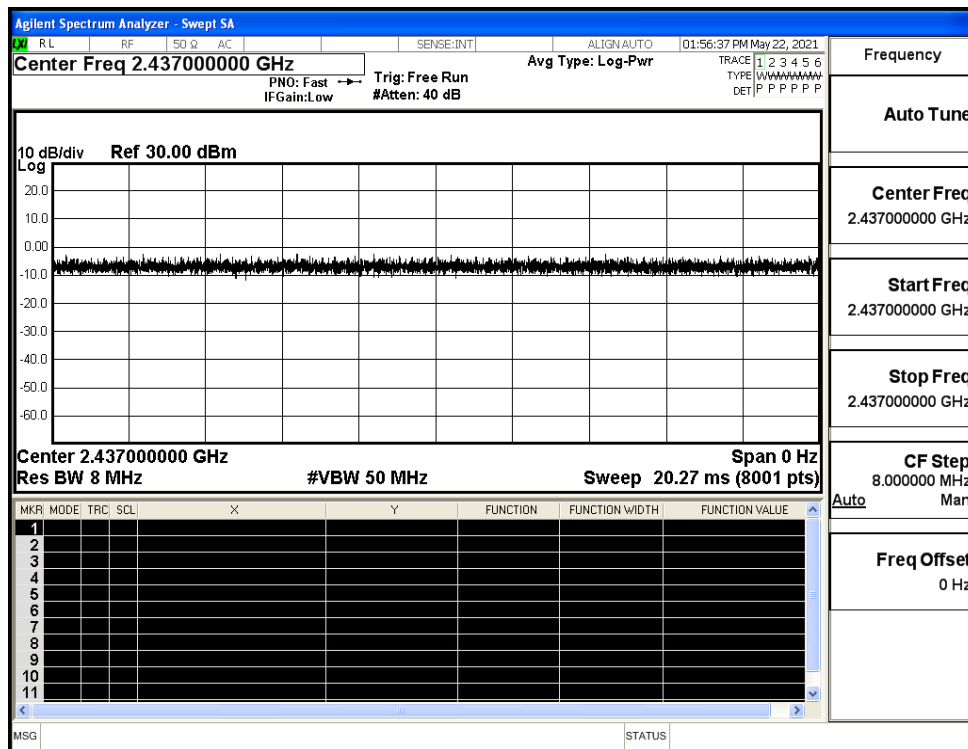
Duty Cycle_11B_2437_Ant1



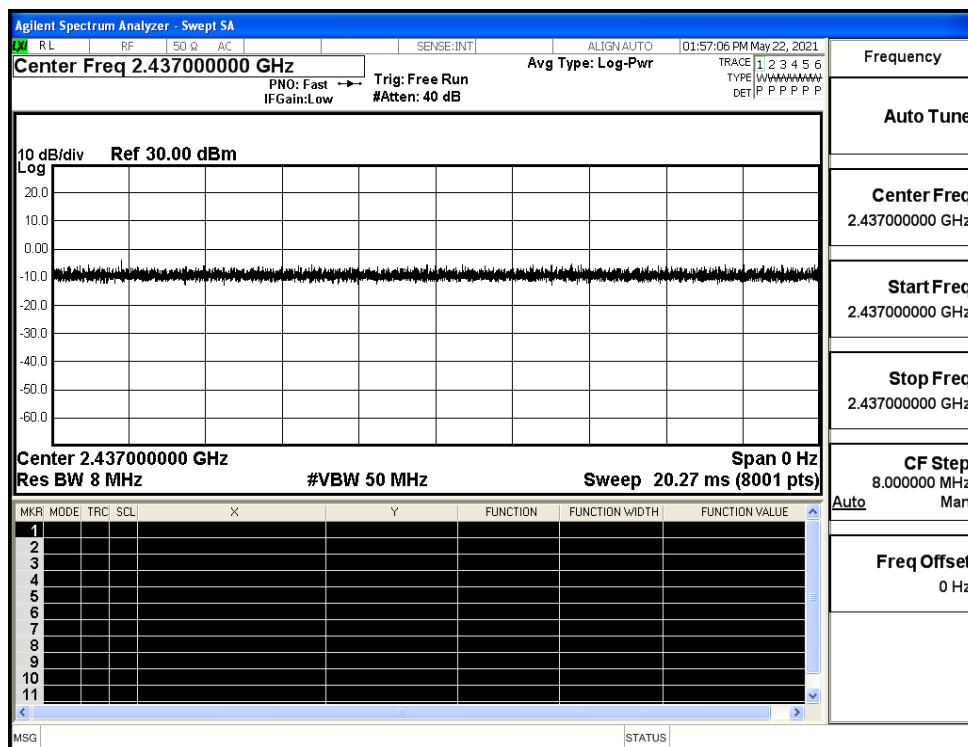
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1



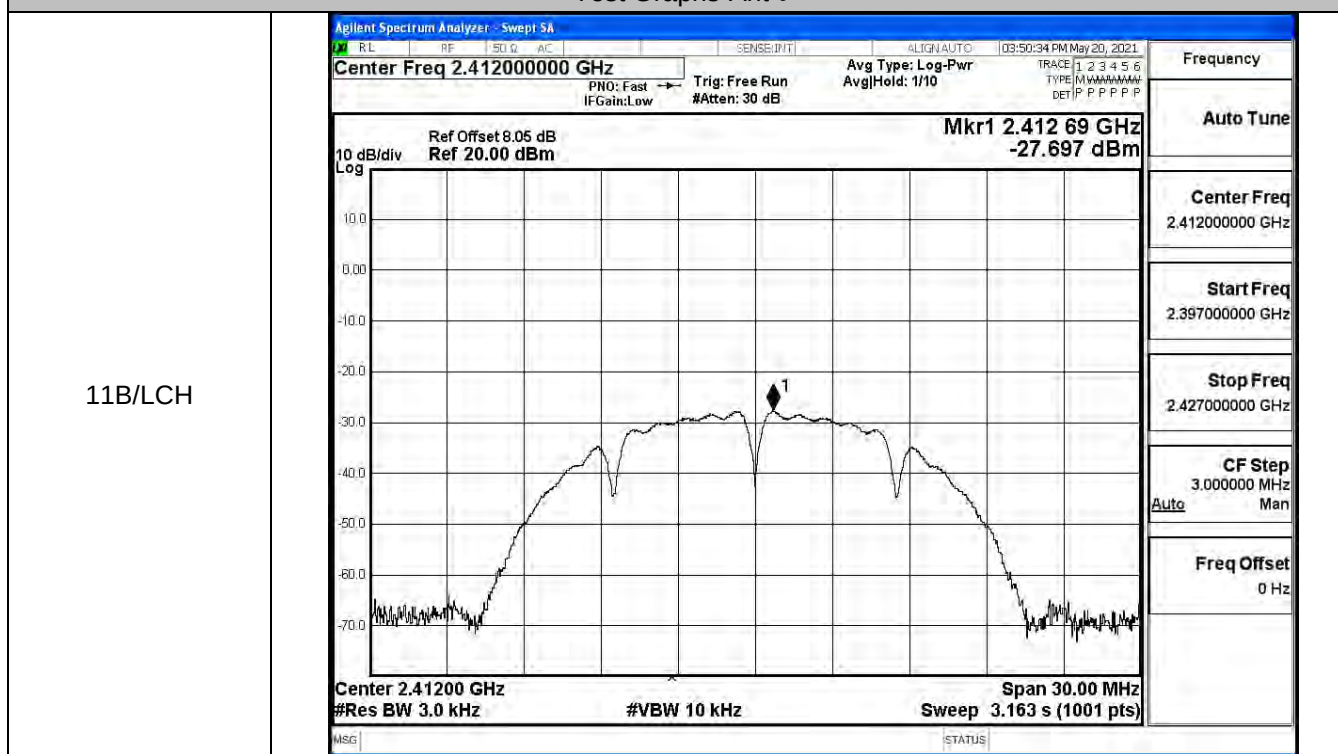
C.2 Maximum Conducted Output Power

Mode	Channel	Meas.Level [dBm]			Limit [dBm]	Verdict
		Ant 1	Ant 2	Sum		
11B	LCH	5.28	5.73	/	30	PASS
	MCH	5.64	5.63	/	30	PASS
	HCH	5.38	5.41	/	30	PASS
11G	LCH	5.68	5.69	/	30	PASS
	MCH	5.96	5.51	/	30	PASS
	HCH	5.73	5.27	/	30	PASS
11N20SISO	LCH	5.81	5.32	8.58	30	PASS
	MCH	5.68	5.67	8.69	30	PASS
	HCH	5.49	5.47	8.49	30	PASS
11N40SISO	LCH	5.3	5.79	8.56	30	PASS
	MCH	5.36	5.81	8.60	30	PASS
	HCH	5.3	5.72	8.53	30	PASS

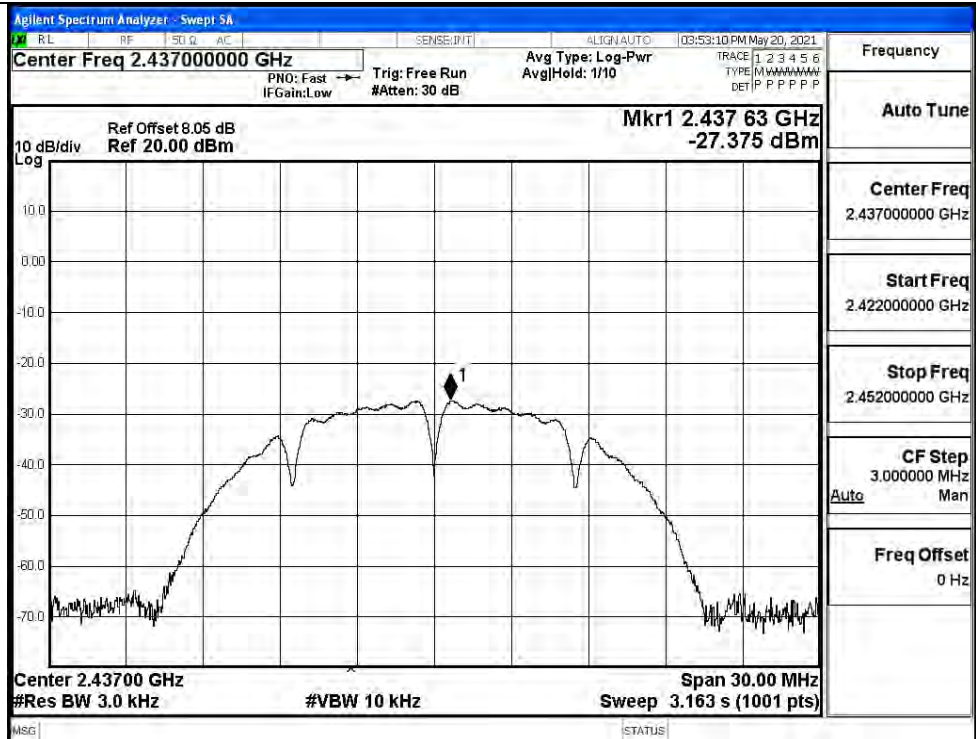
C.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/3KHz]			Limit [dBm/3KHz]	Verdict
		Ant_1	Ant_2	Sum		
11B	LCH	-27.697	-27.133	/	8	PASS
	MCH	-27.375	-27.215	/	8	PASS
	HCH	-27.590	-27.479	/	8	PASS
11G	LCH	-30.830	-30.621	/	8	PASS
	MCH	-30.241	-30.795	/	8	PASS
	HCH	-29.966	-30.563	/	8	PASS
11N20SISO	LCH	-30.474	-29.797	-27.112	8	PASS
	MCH	-30.759	-30.690	-27.714	8	PASS
	HCH	-30.402	-31.157	-27.753	8	PASS
11N40SISO	LCH	-32.904	-32.156	-29.504	8	PASS
	MCH	-29.546	-32.537	-27.779	8	PASS
	HCH	-33.075	-32.545	-29.792	8	PASS

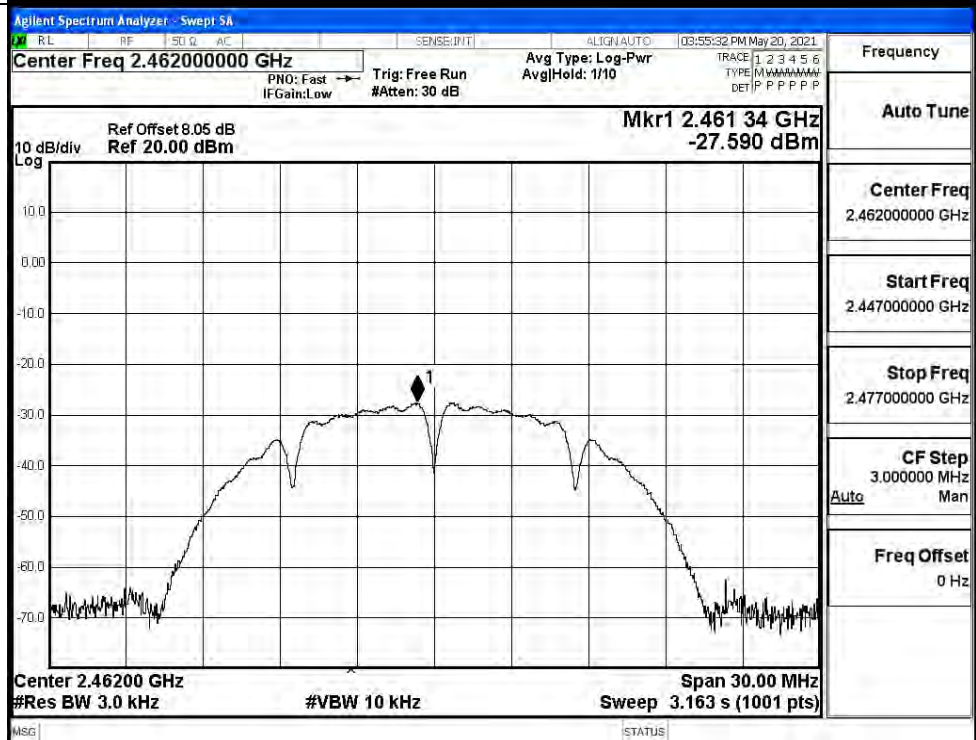
Test Graphs-Ant 0



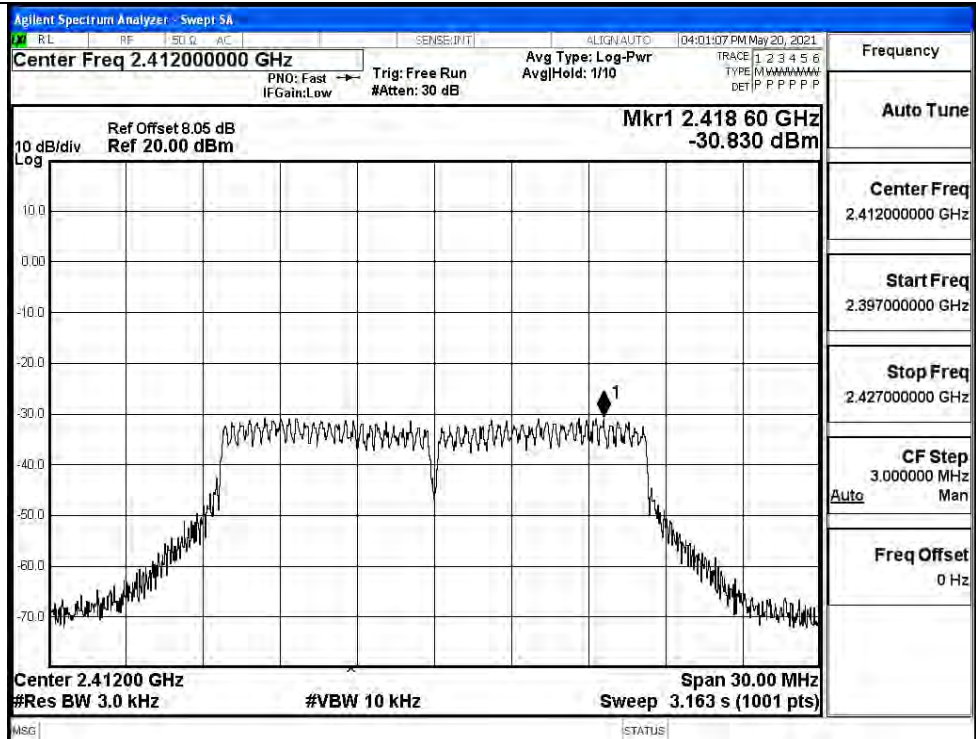
11B/MCH



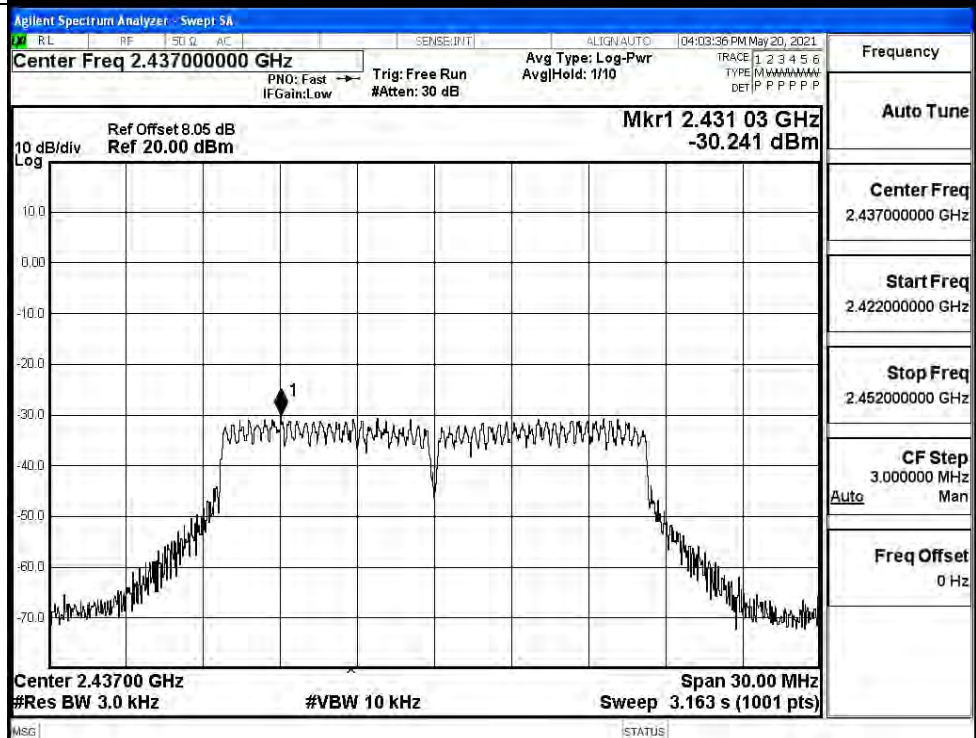
11B/HCH



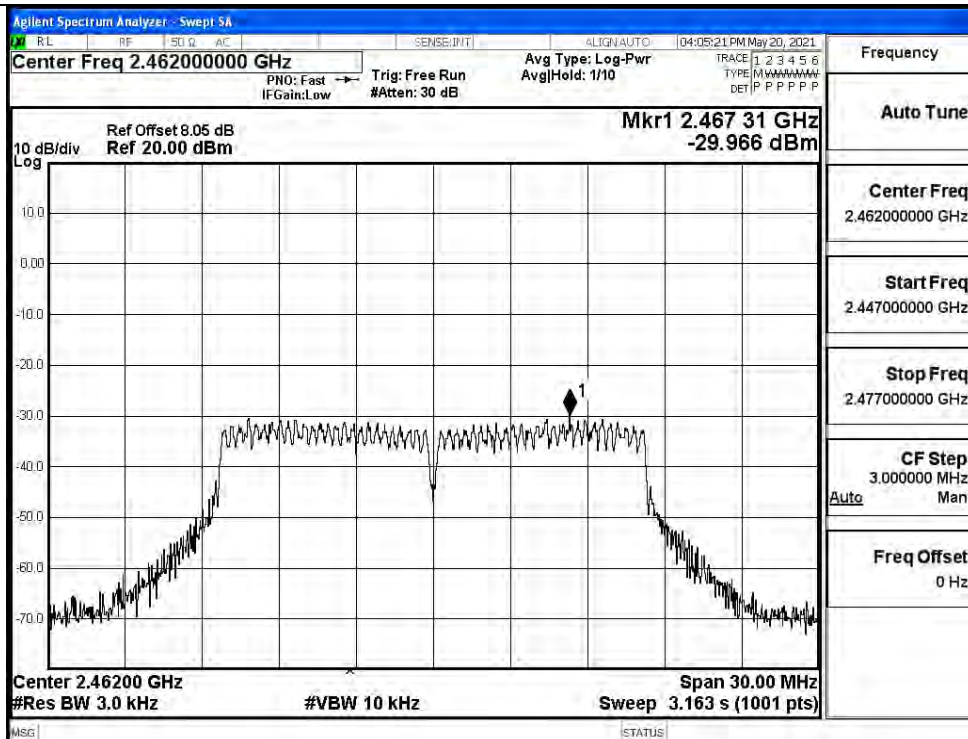
11G/LCH



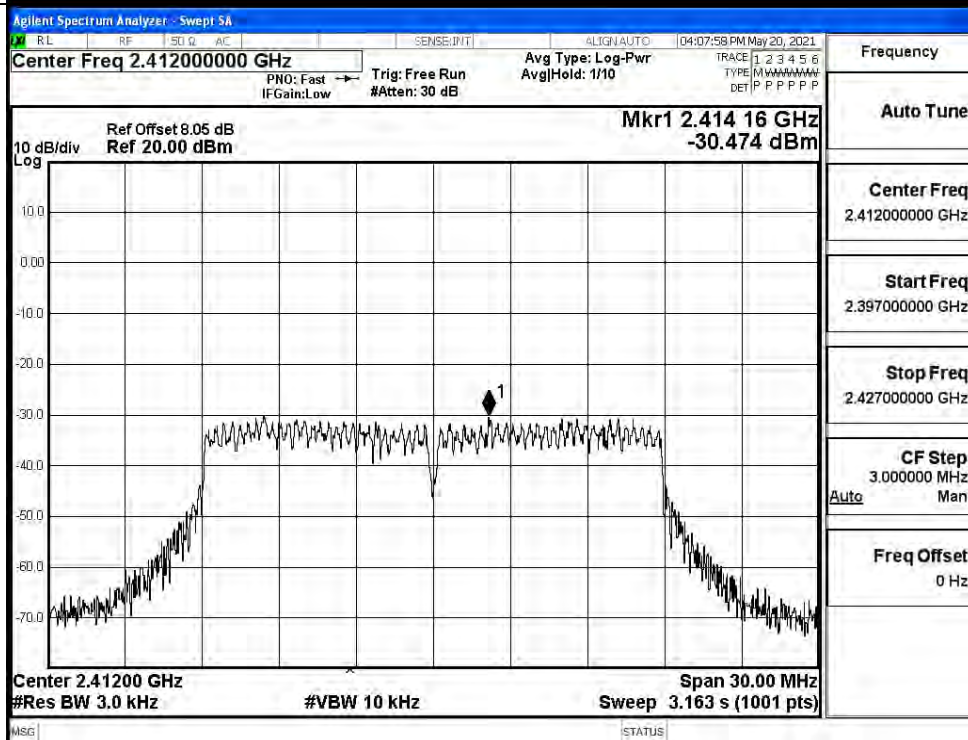
11G/MCH



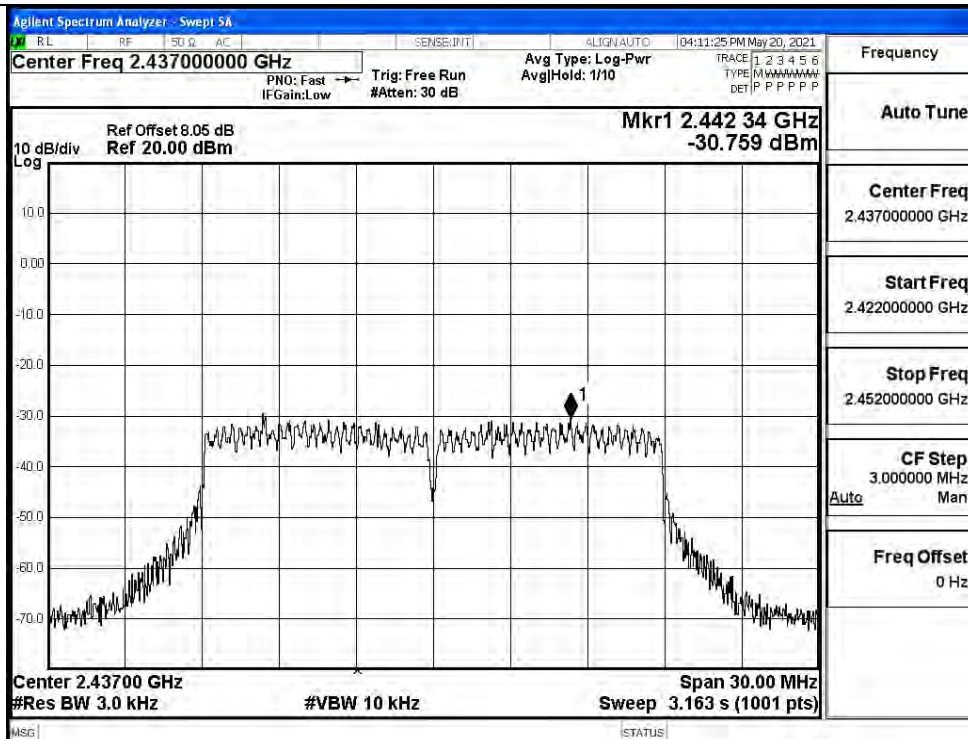
11G/HCH



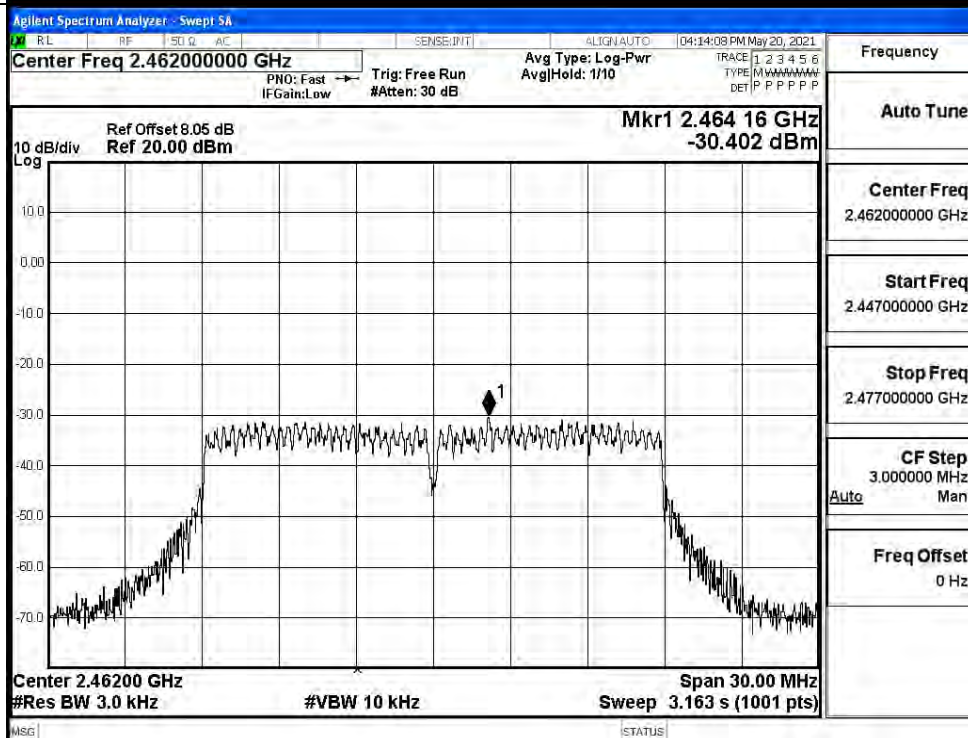
11N20SISO/LCH



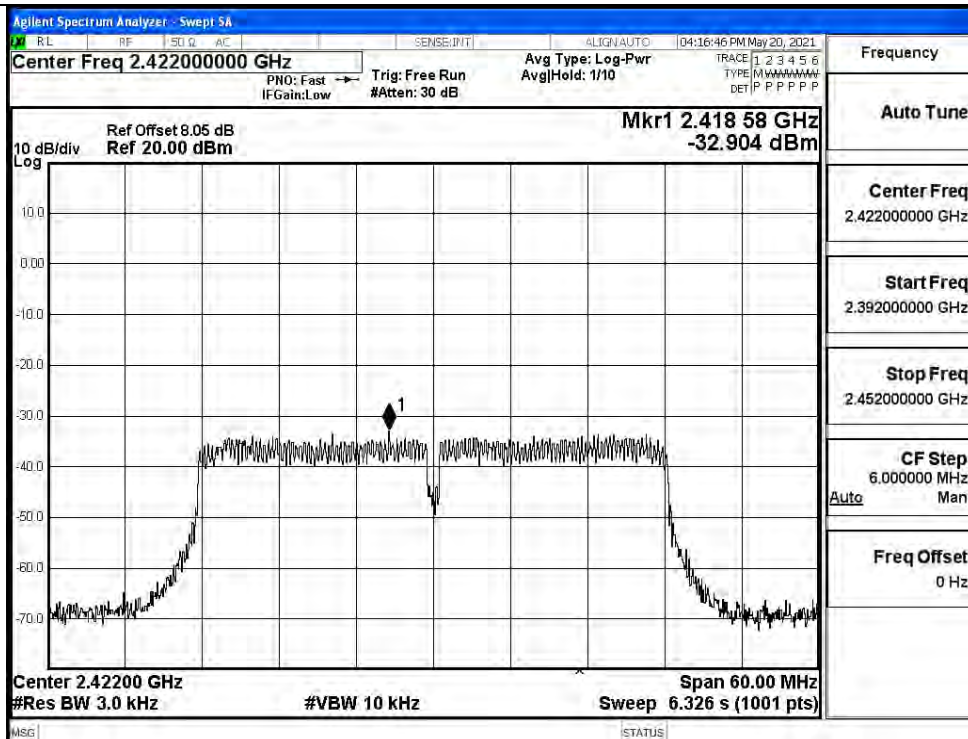
11N20SISO/MCH



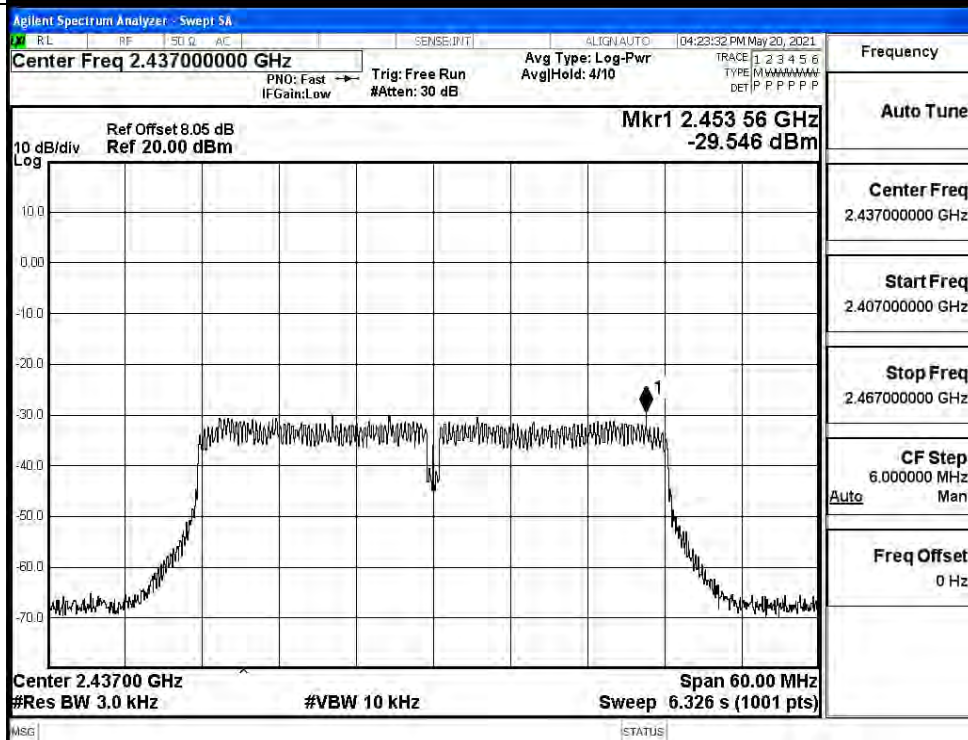
11N20SISO/HCH



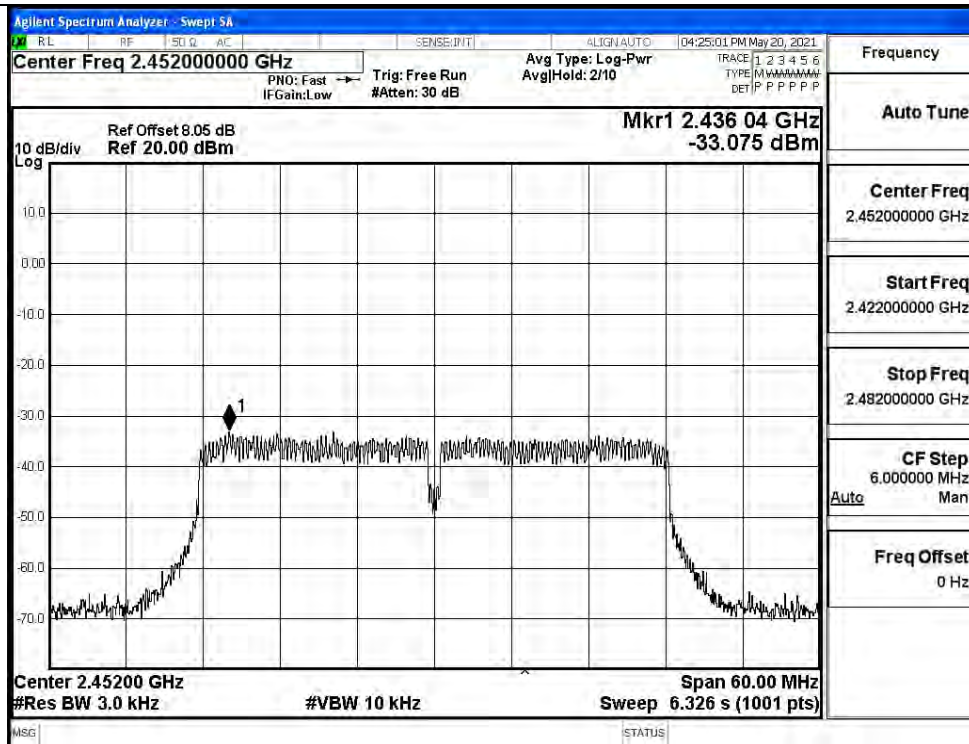
11N40SISO/LCH



11N40SISO/MCH

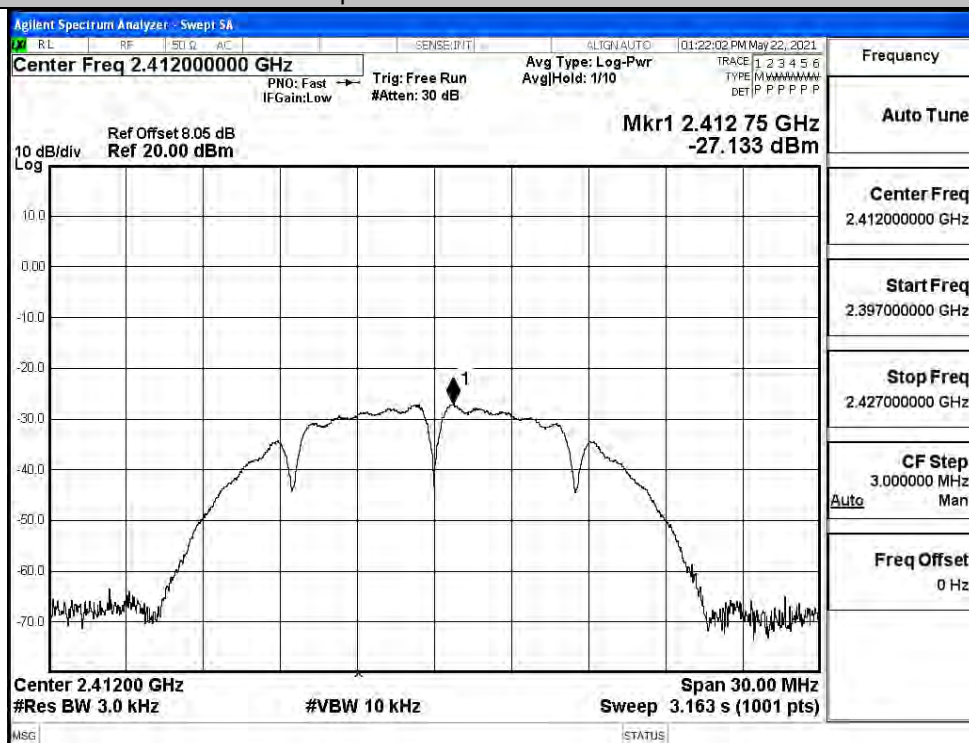


11N40SISO/HCH

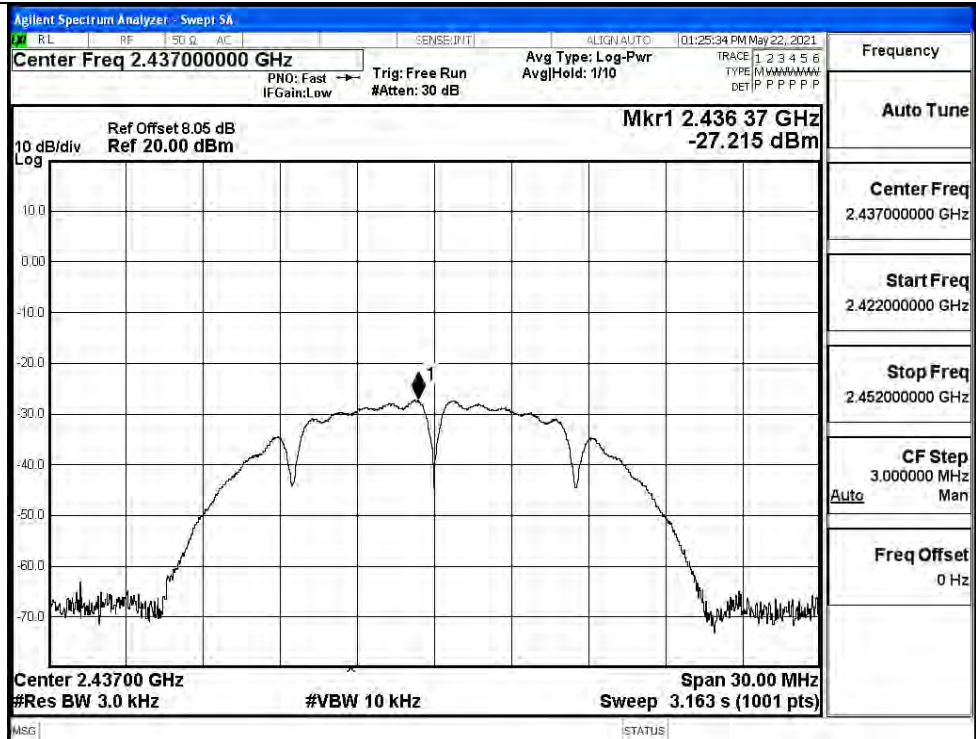


st Graphs-Ant 1

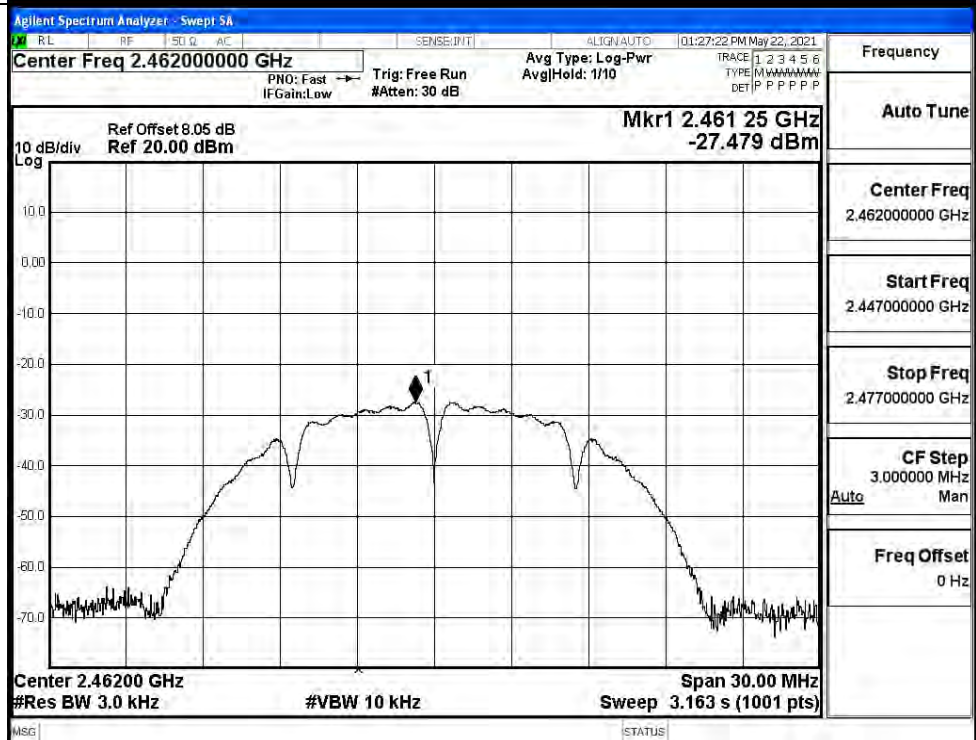
11B/LCH



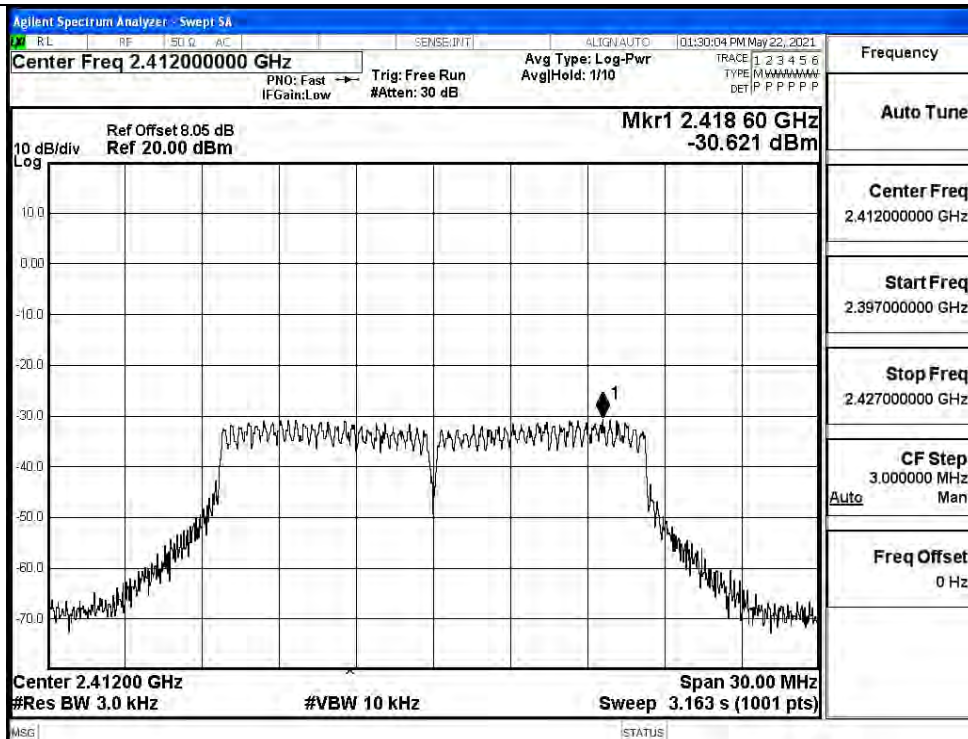
11B/MCH



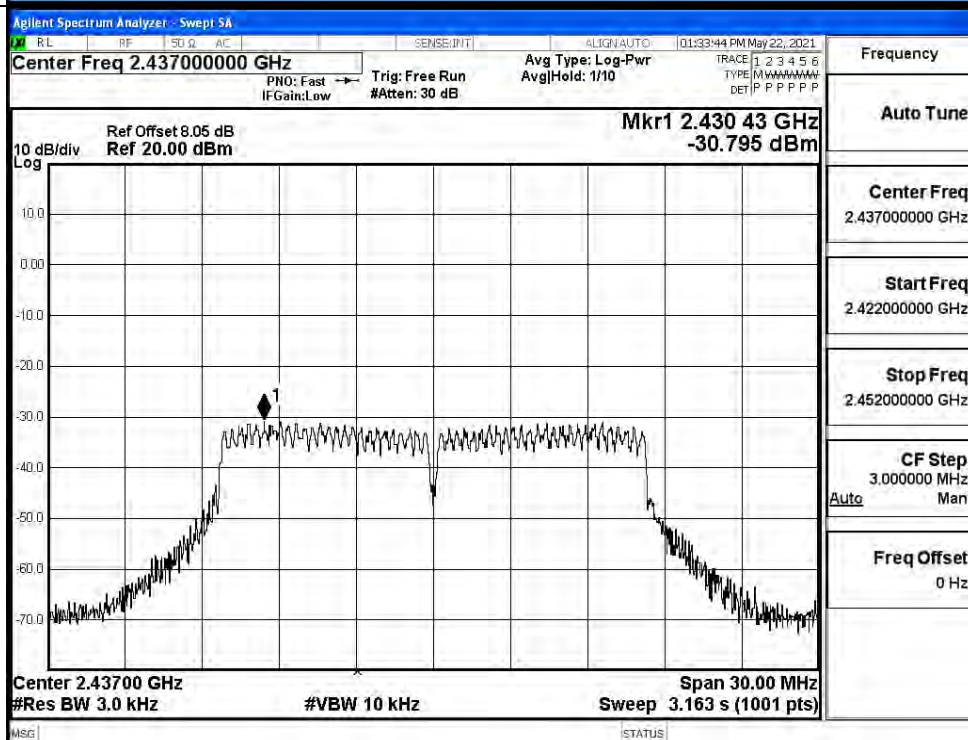
11B/HCH



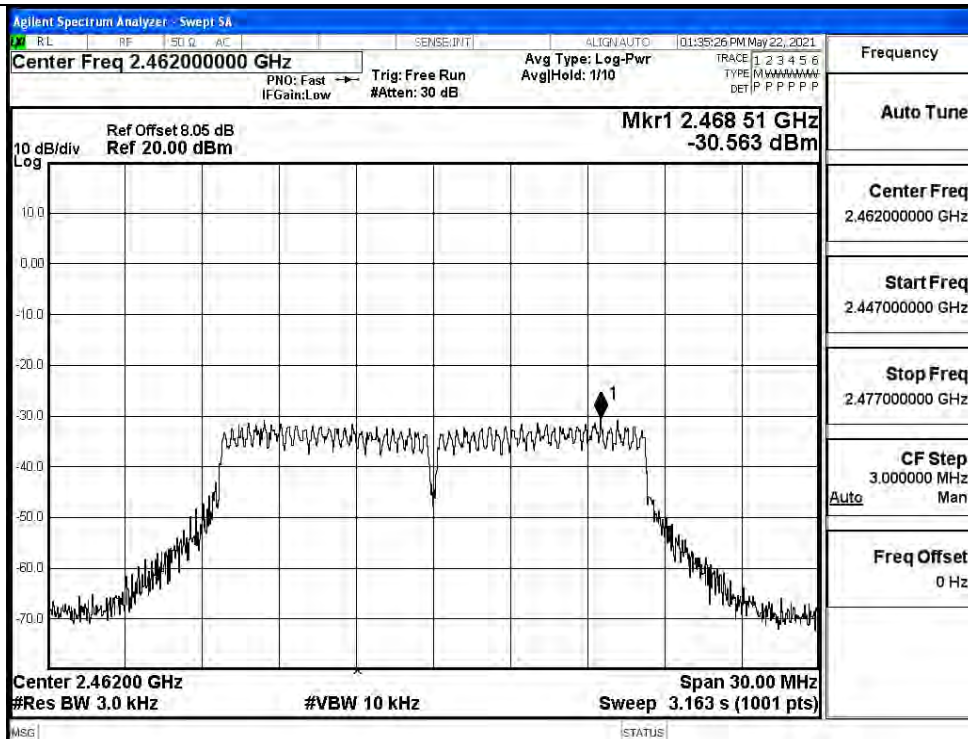
11G/LCH



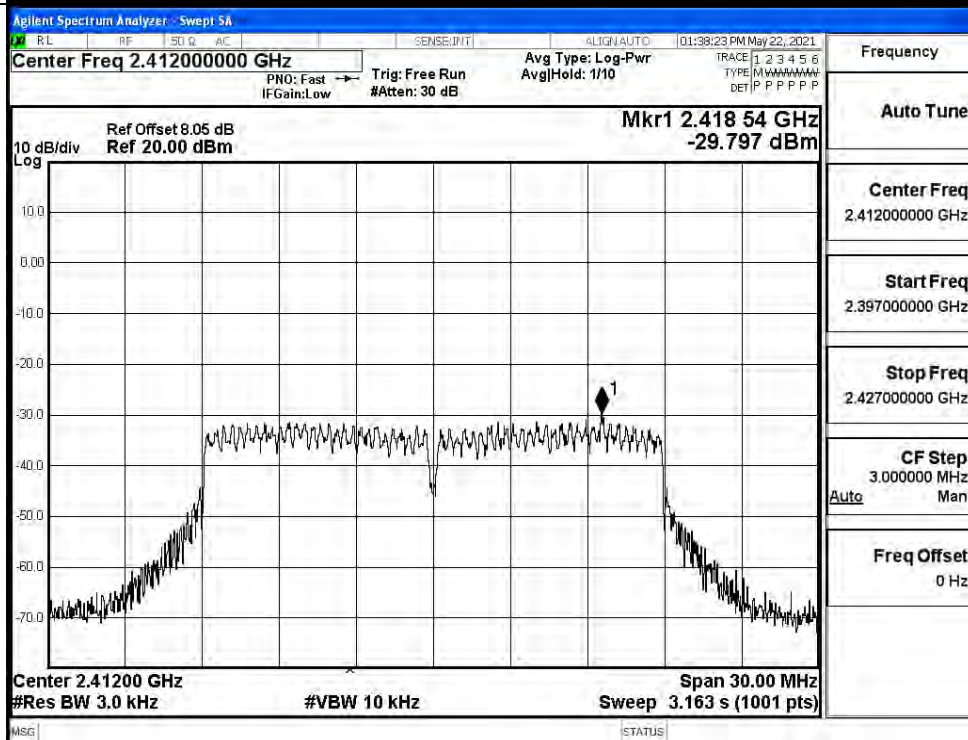
11G/MCH



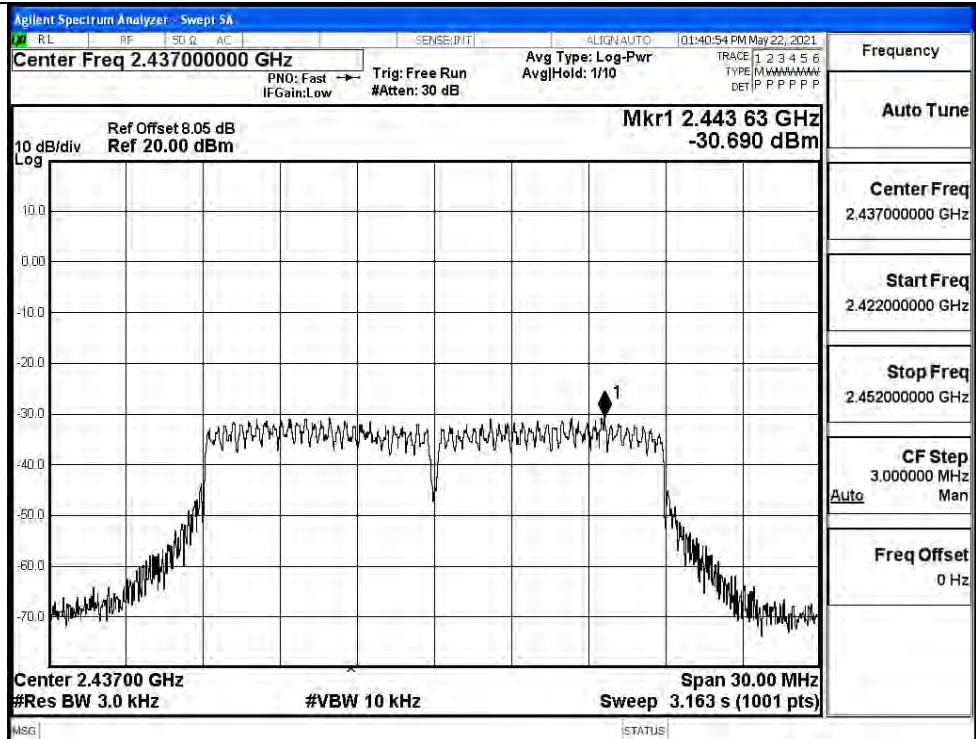
11G/HCH



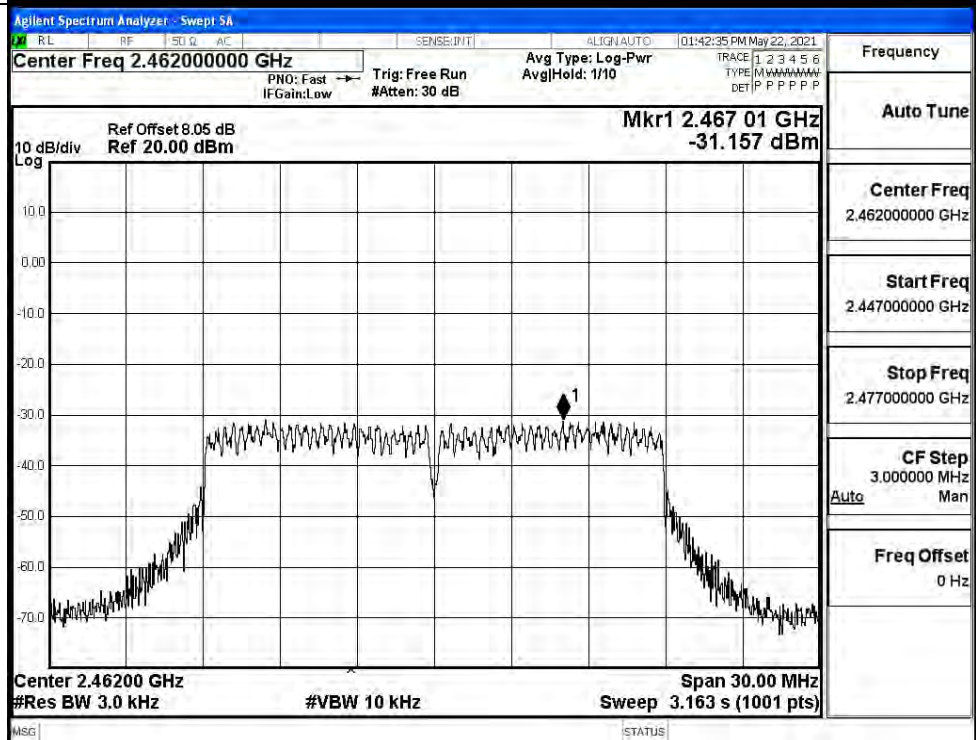
11N20SISO/LCH



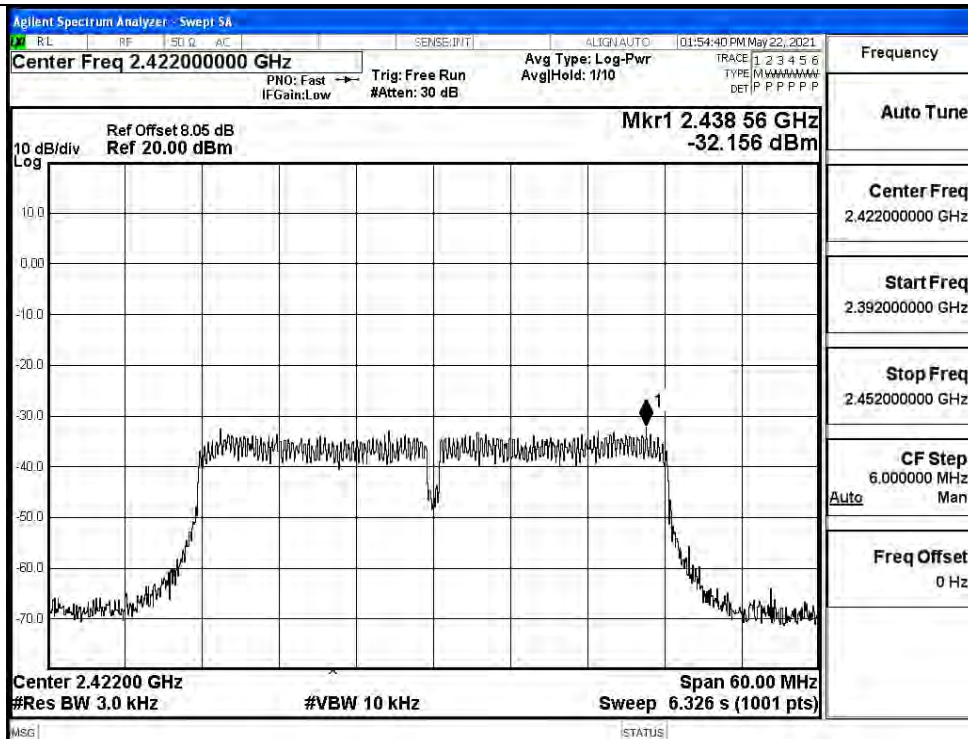
11N20SISO/MCH



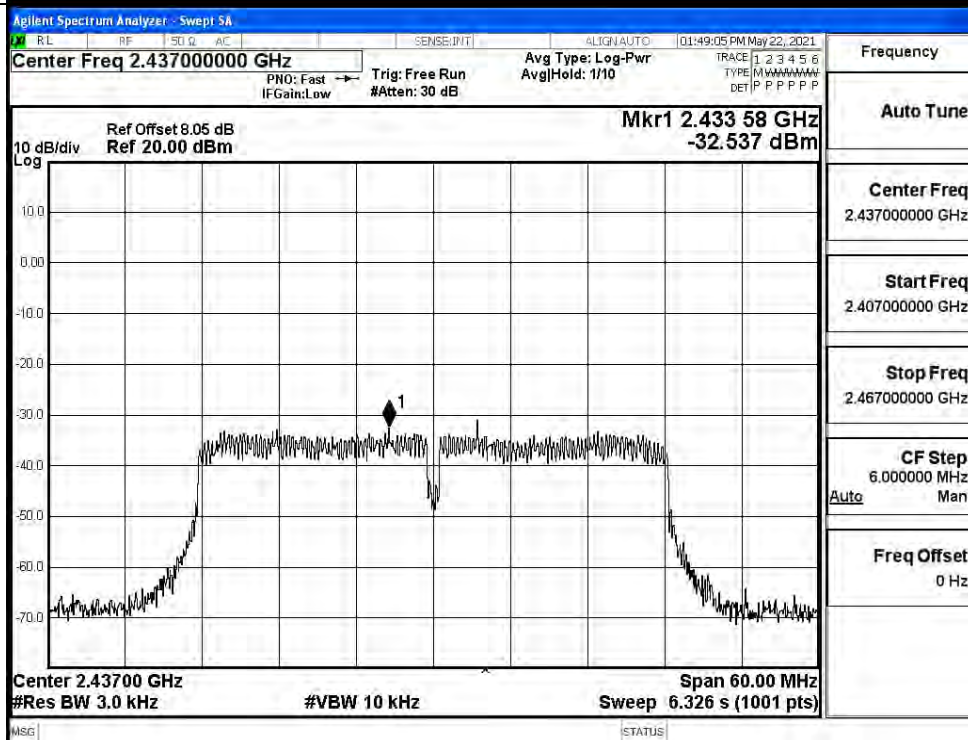
11N20SISO/HCH



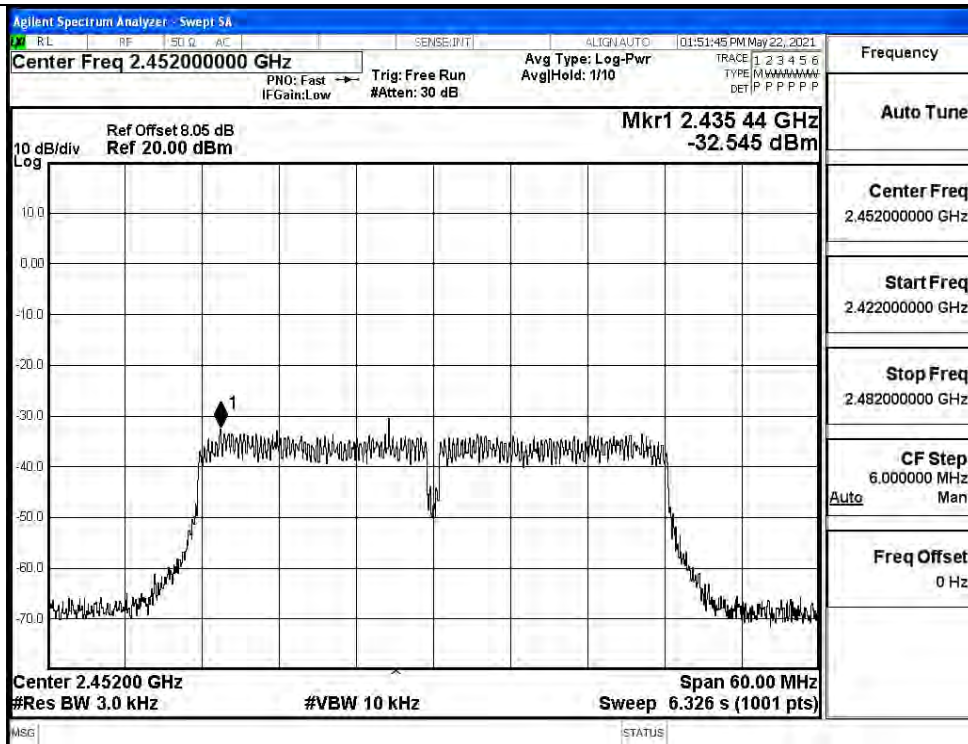
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH



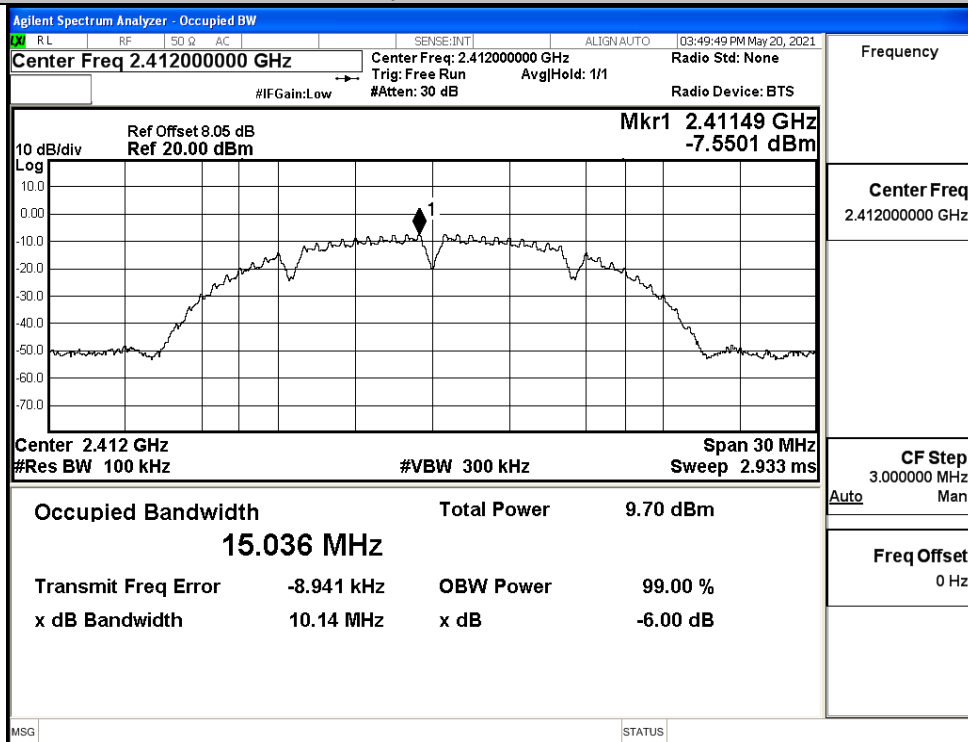
C.4 6dB Bandwidth

ANT0

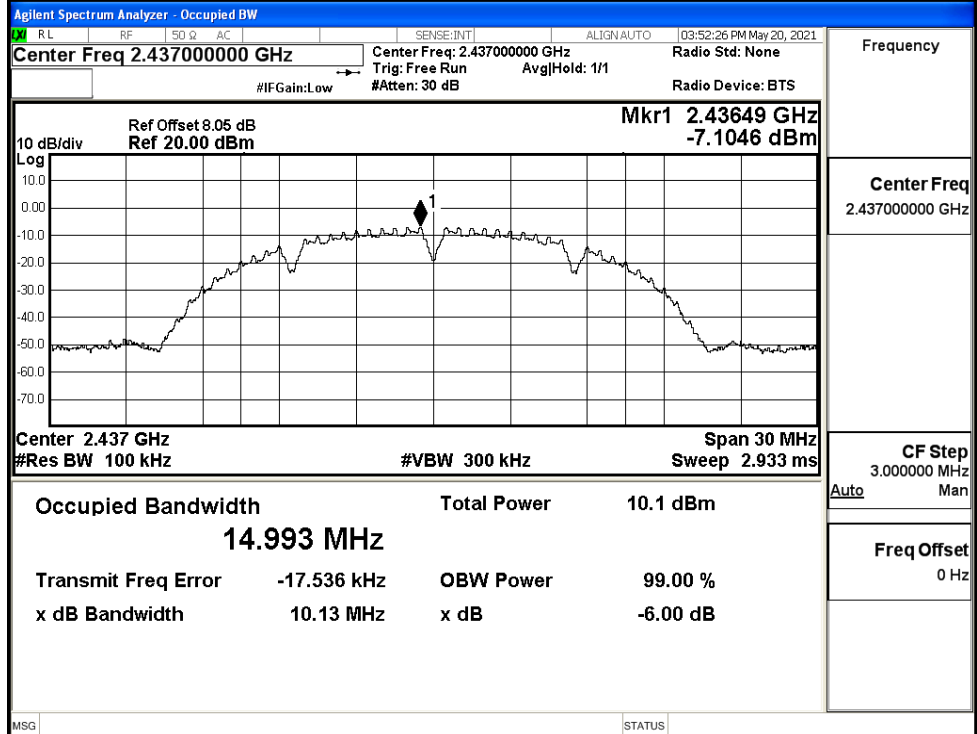
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	10.14	≥ 0.5	PASS
	MCH	10.13	≥ 0.5	PASS
	HCH	10.14	≥ 0.5	PASS
11G	LCH	16.58	≥ 0.5	PASS
	MCH	16.57	≥ 0.5	PASS
	HCH	16.57	≥ 0.5	PASS
11N20SISO	LCH	17.76	≥ 0.5	PASS
	MCH	17.71	≥ 0.5	PASS
	HCH	17.76	≥ 0.5	PASS
11N40SISO	LCH	36.50	≥ 0.5	PASS
	MCH	36.53	≥ 0.5	PASS
	HCH	36.55	≥ 0.5	PASS

Test Graphs

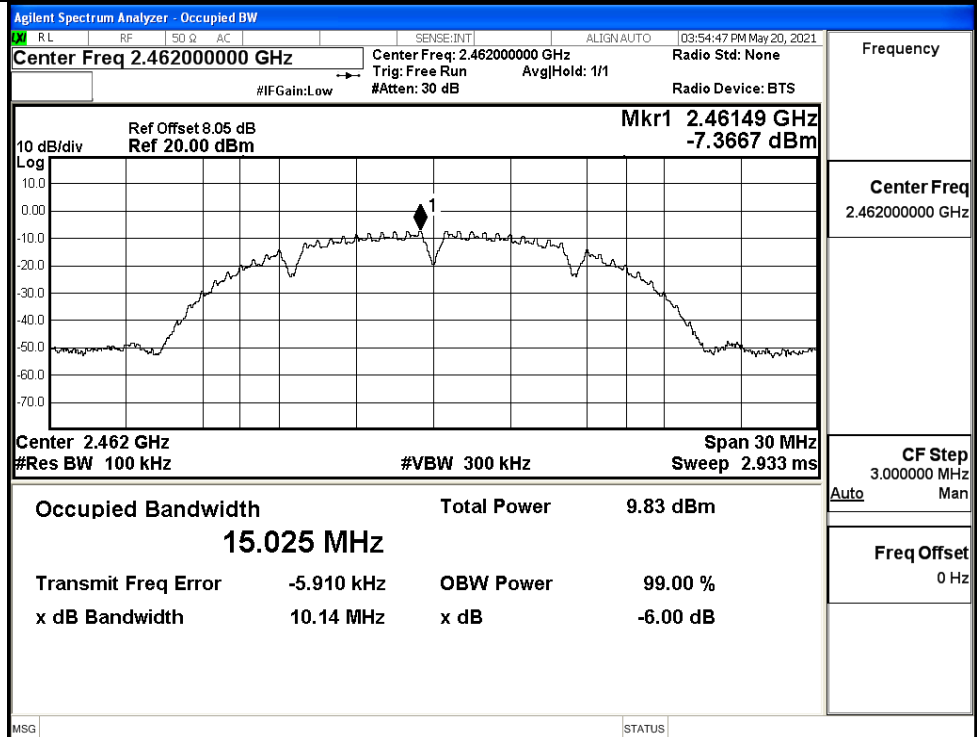
11B/LCH



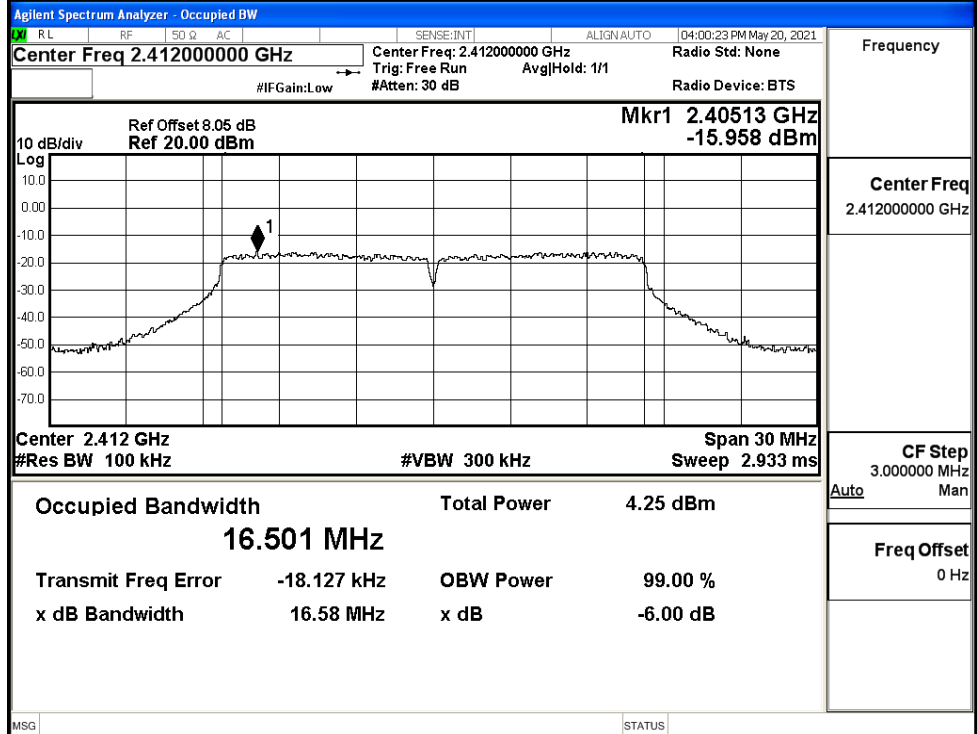
11B/MCH



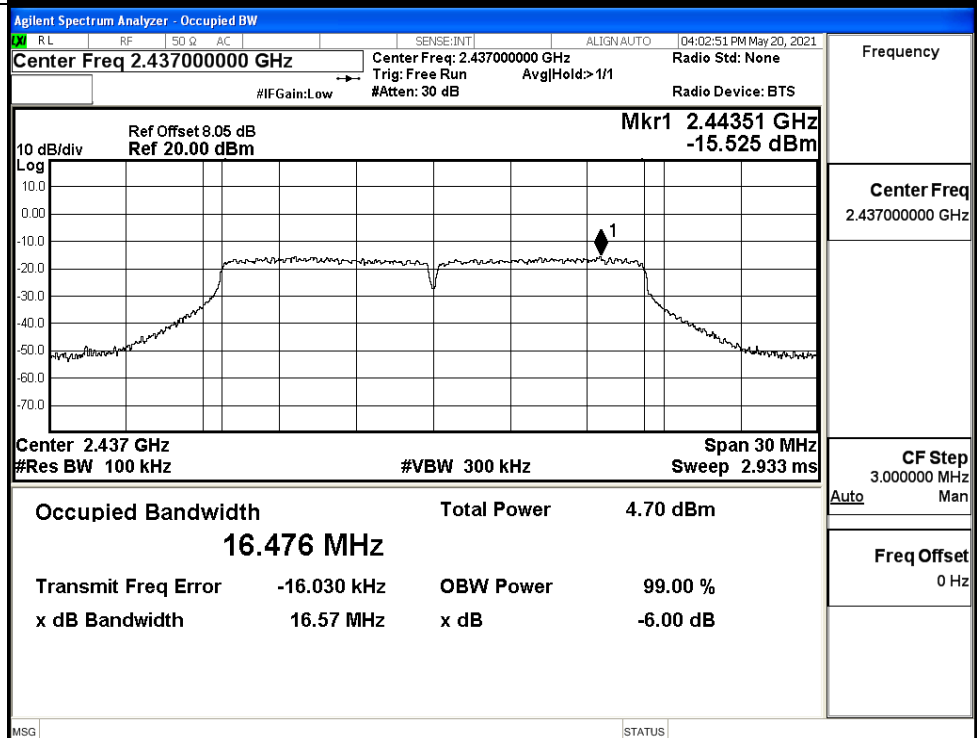
11B/HCH



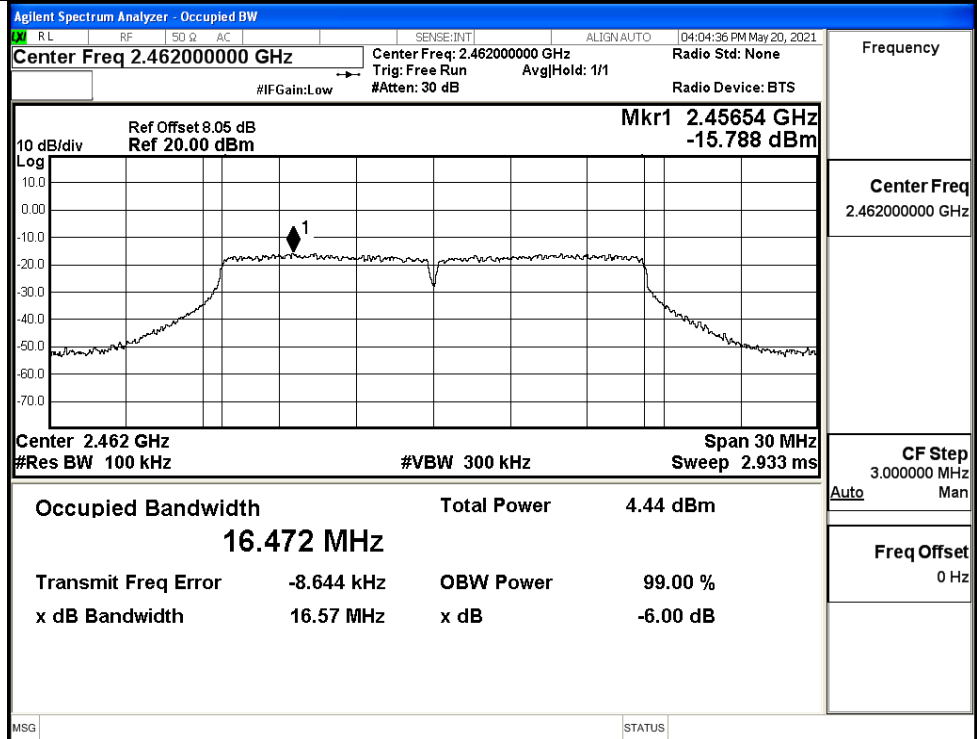
11G/LCH



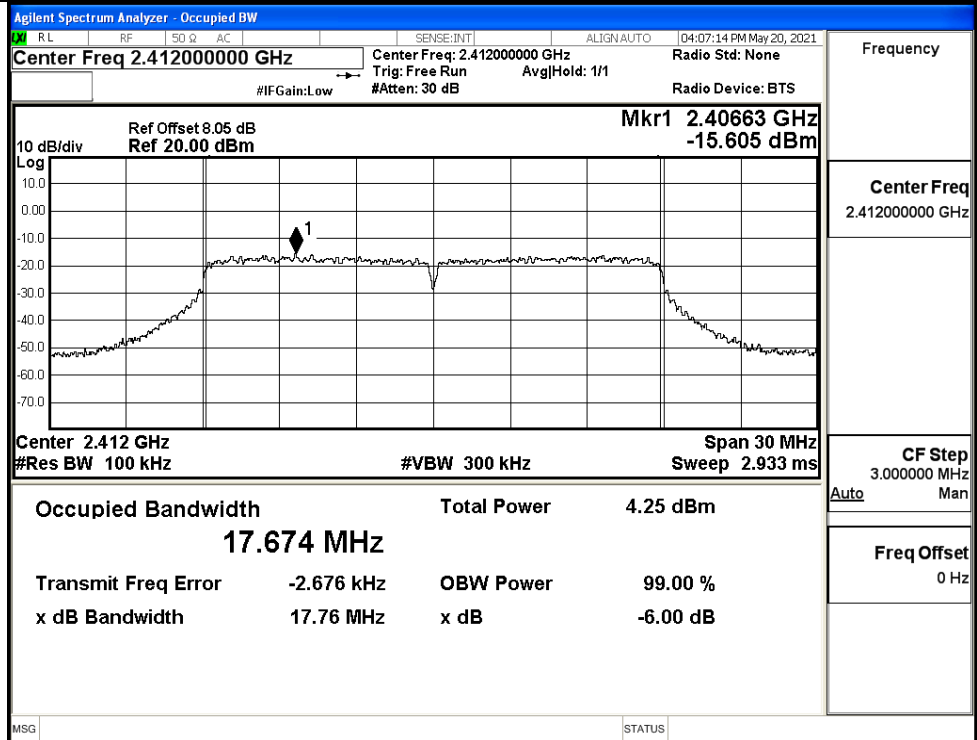
11G/MCH



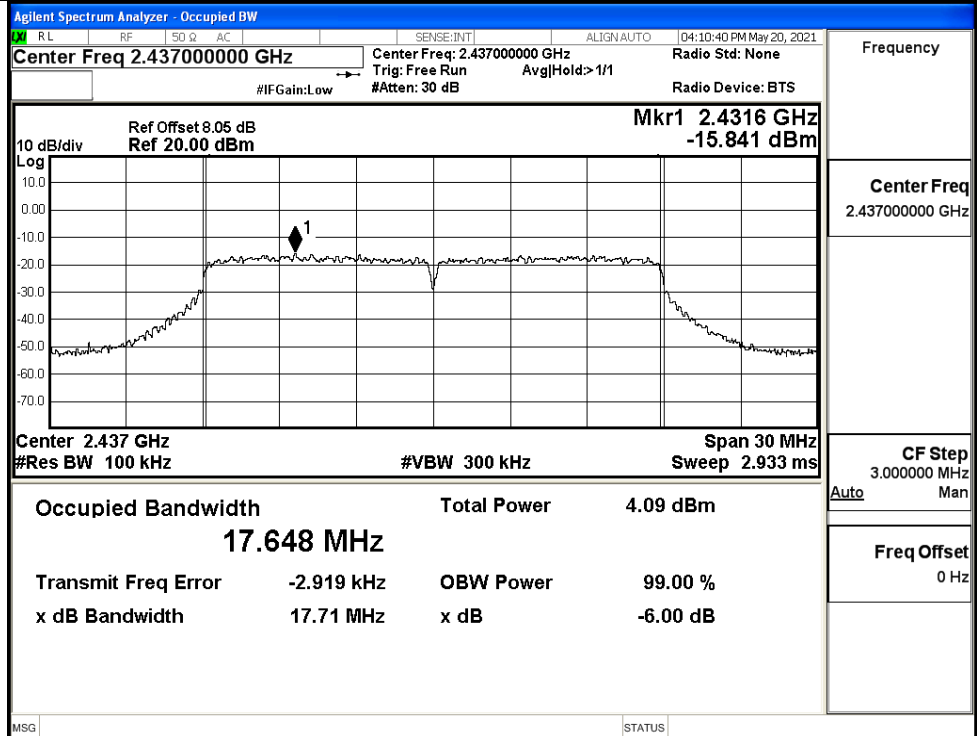
11G/HCH



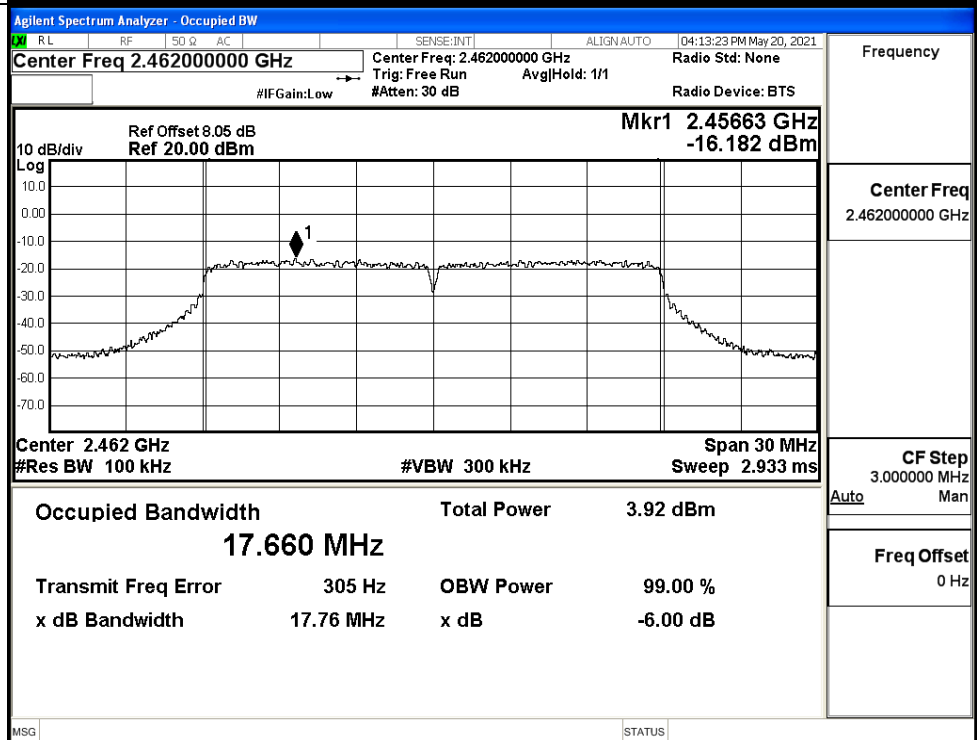
11N20SISO/LCH



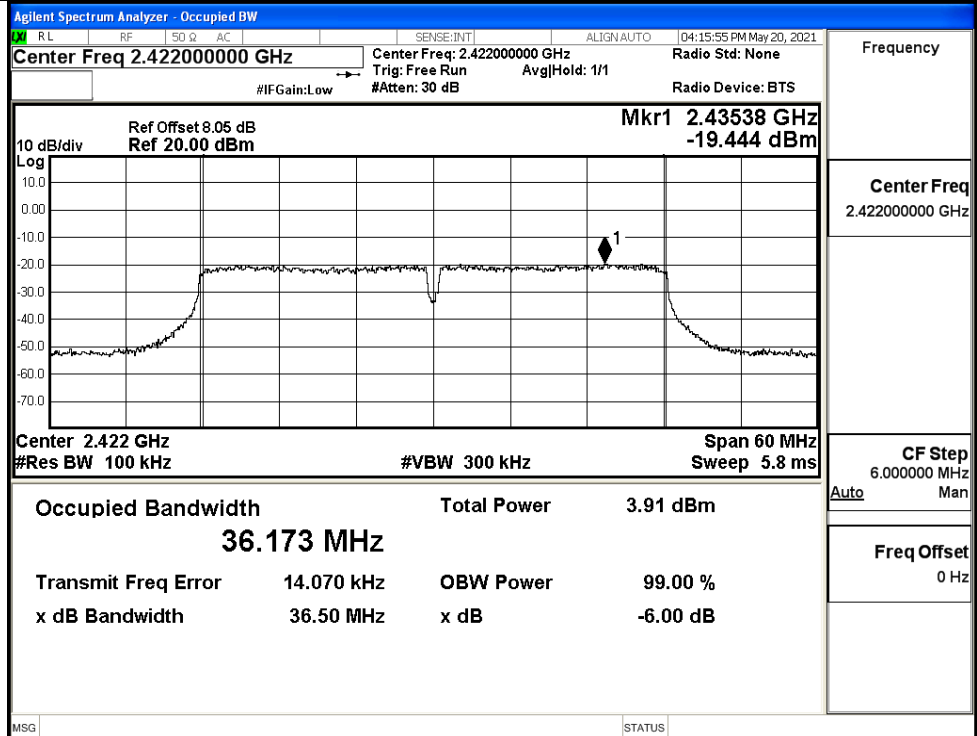
11N20SISO/MCH



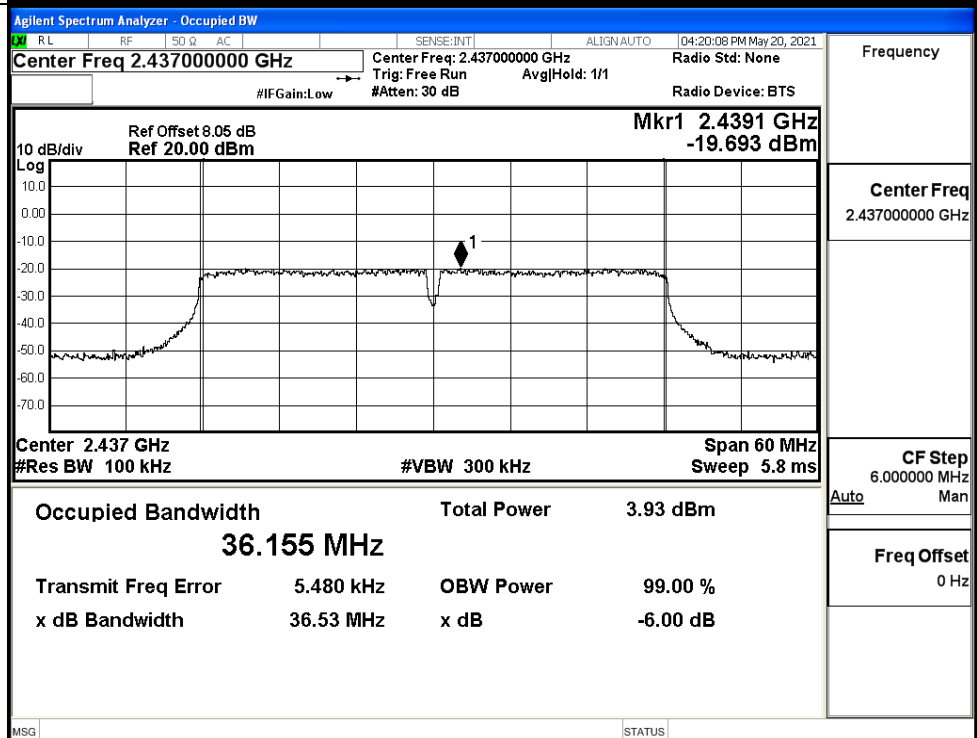
11N20SISO/HCH

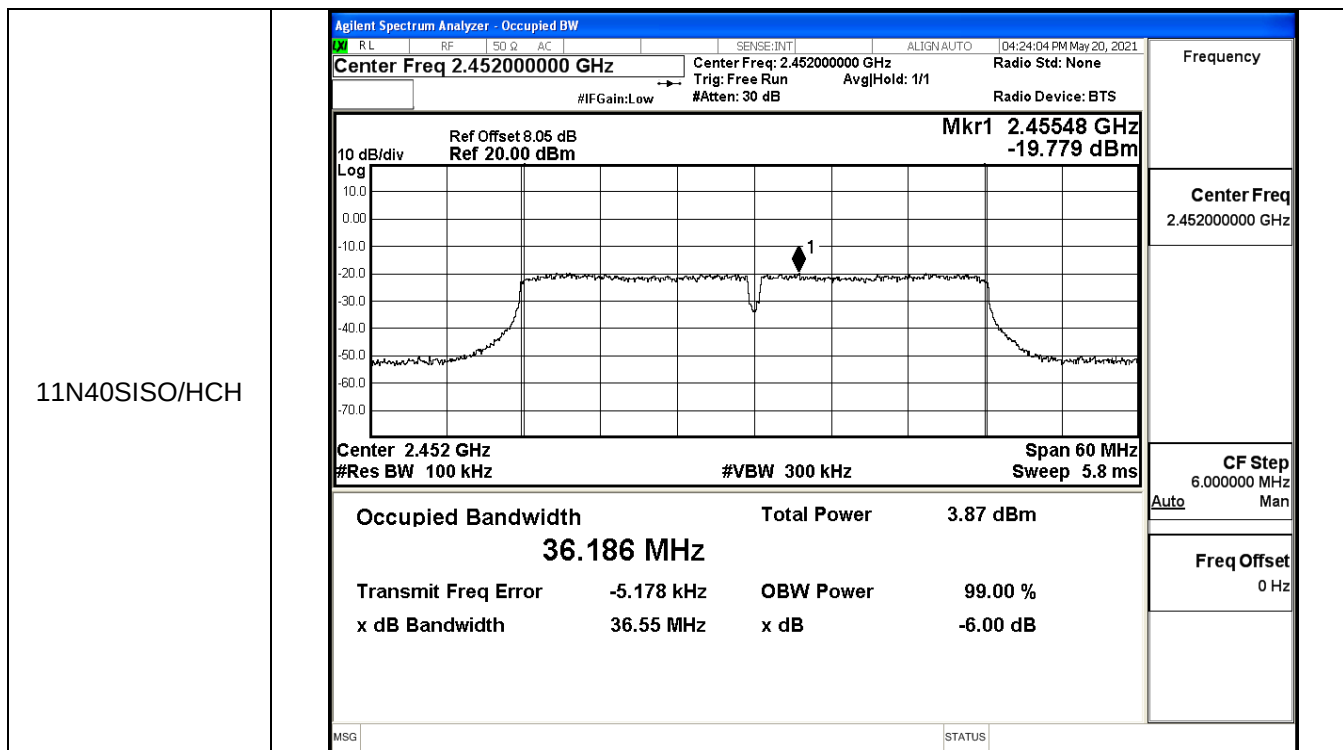


11N40SISO/LCH



11N40SISO/MCH



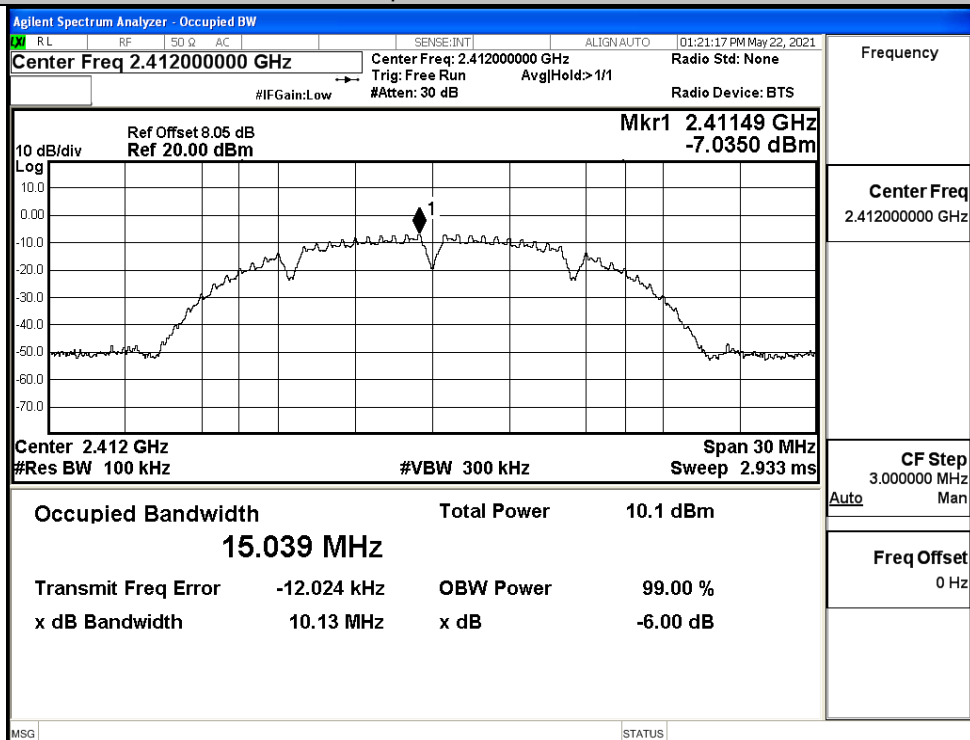


ANT1

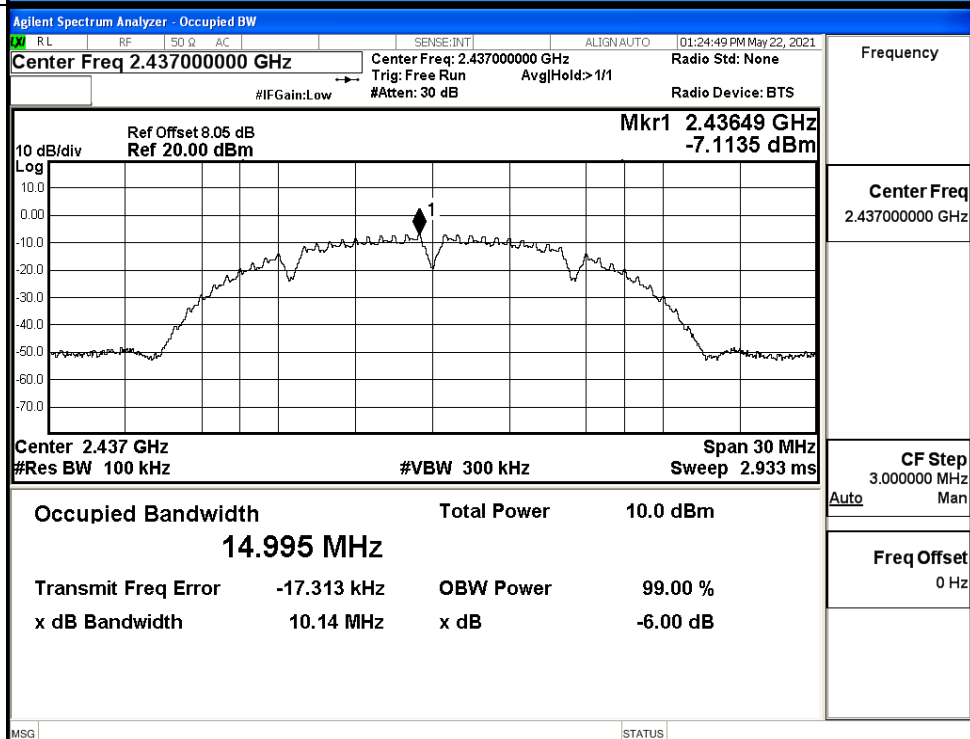
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	10.13	≥ 0.5	PASS
	MCH	10.14	≥ 0.5	PASS
	HCH	10.14	≥ 0.5	PASS
11G	LCH	16.56	≥ 0.5	PASS
	MCH	16.58	≥ 0.5	PASS
	HCH	16.58	≥ 0.5	PASS
11N20SISO	LCH	17.71	≥ 0.5	PASS
	MCH	17.71	≥ 0.5	PASS
	HCH	17.75	≥ 0.5	PASS
11N40SISO	LCH	36.52	≥ 0.5	PASS
	MCH	36.50	≥ 0.5	PASS
	HCH	36.54	≥ 0.5	PASS

Test Graphs

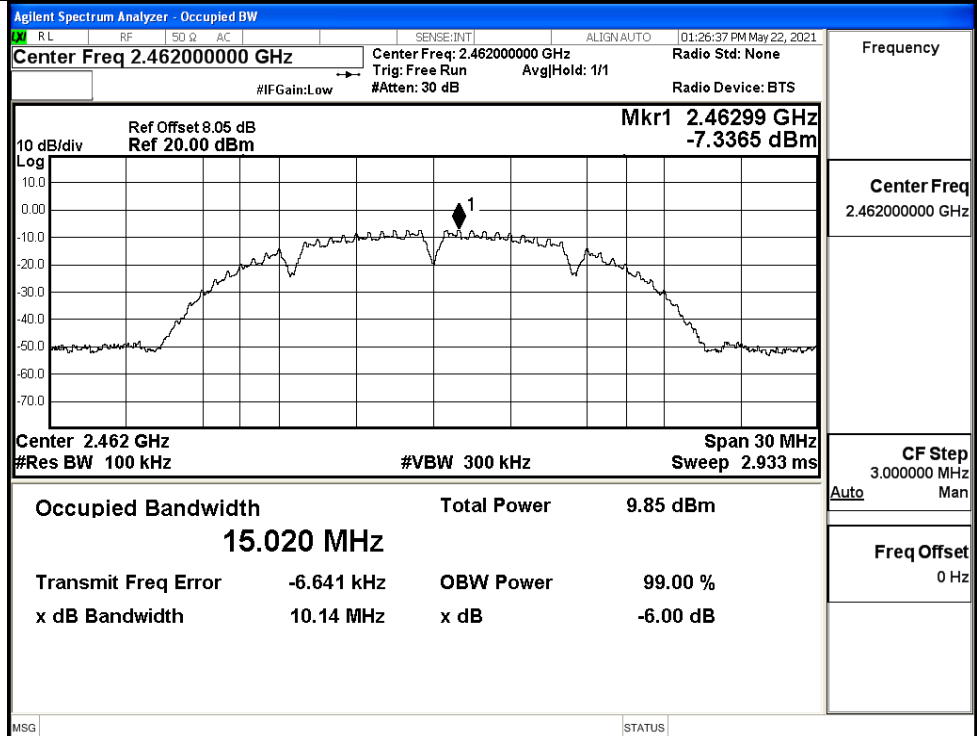
11B/LCH



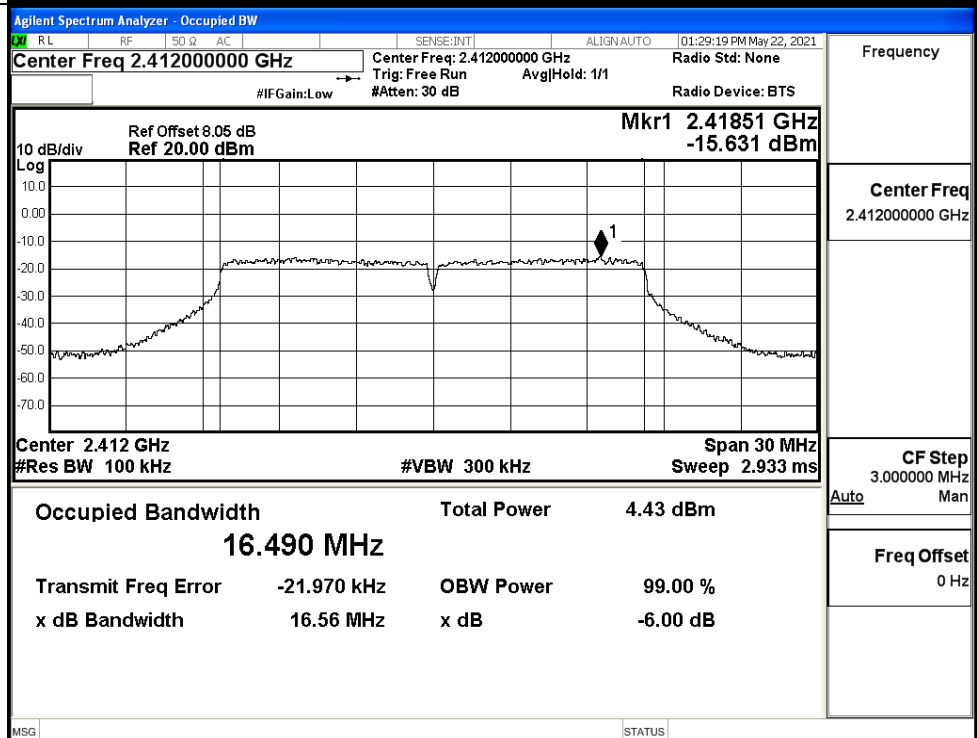
11B/MCH



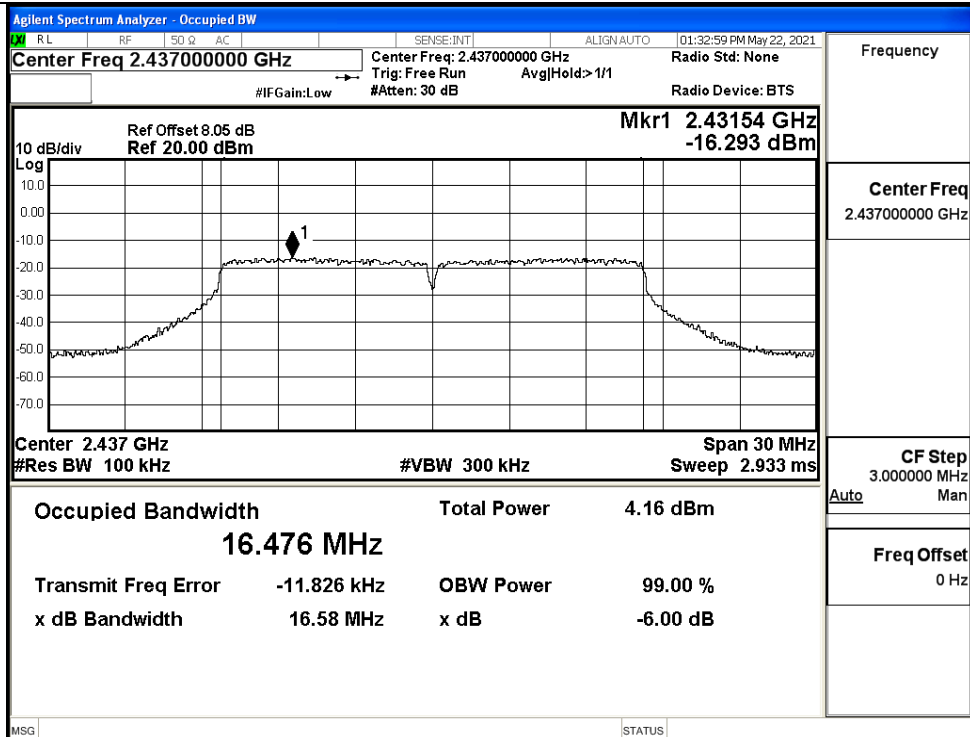
11B/HCH



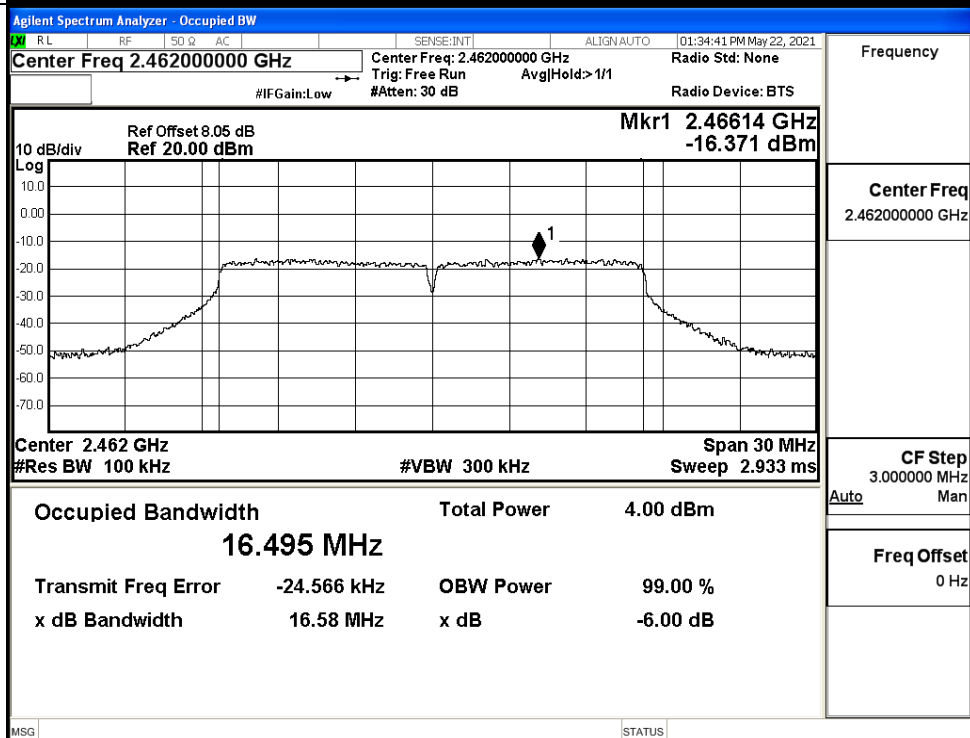
11G/LCH



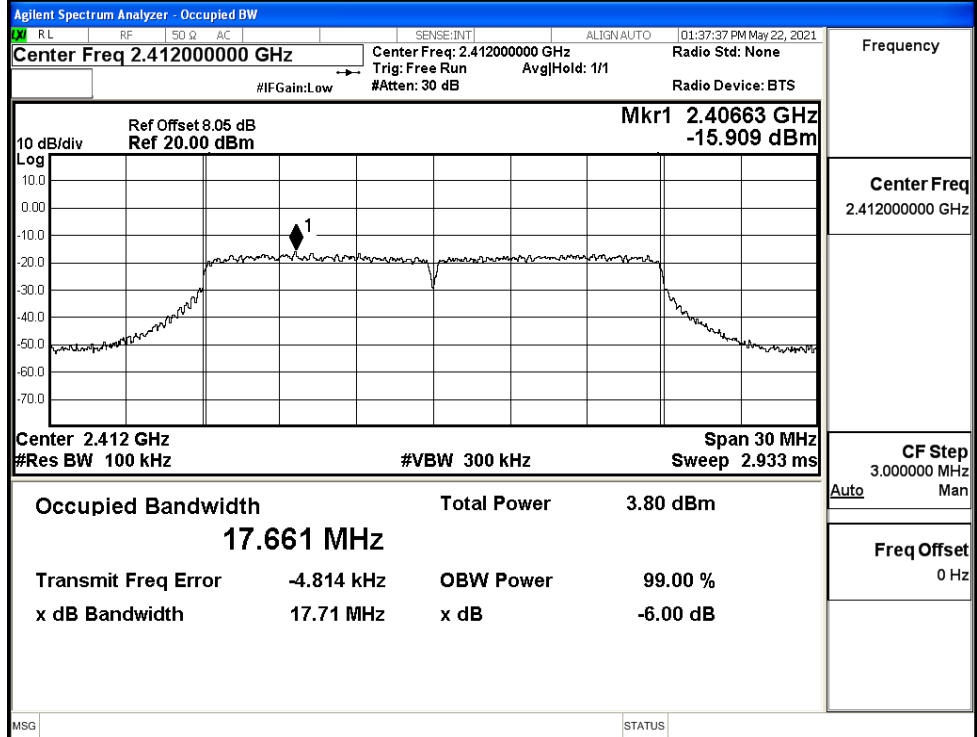
11G/MCH



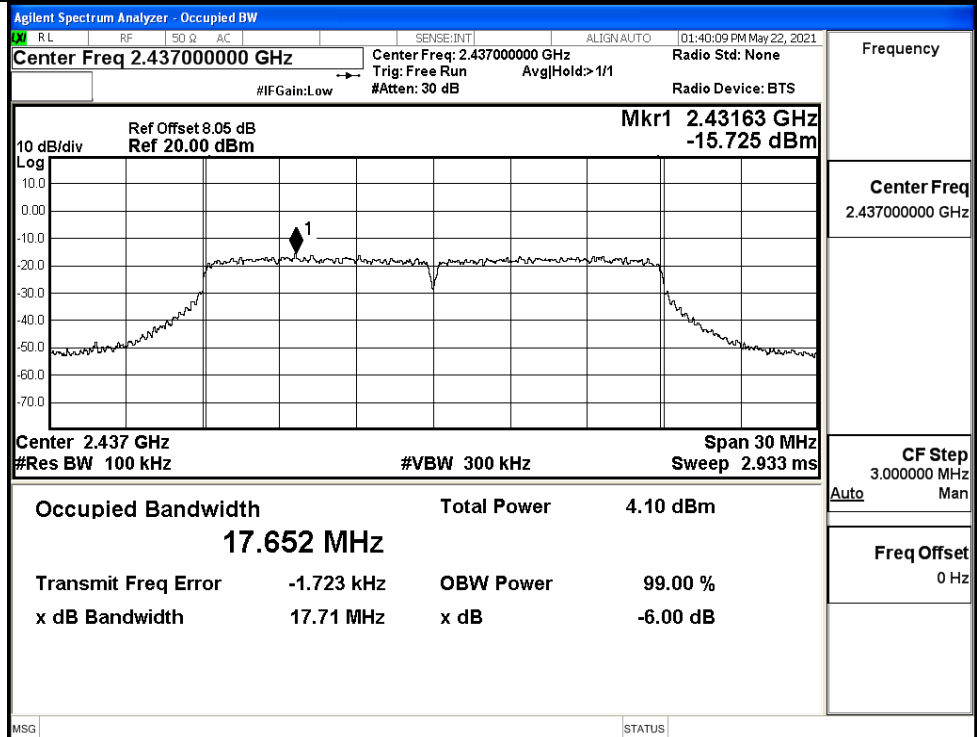
11G/HCH



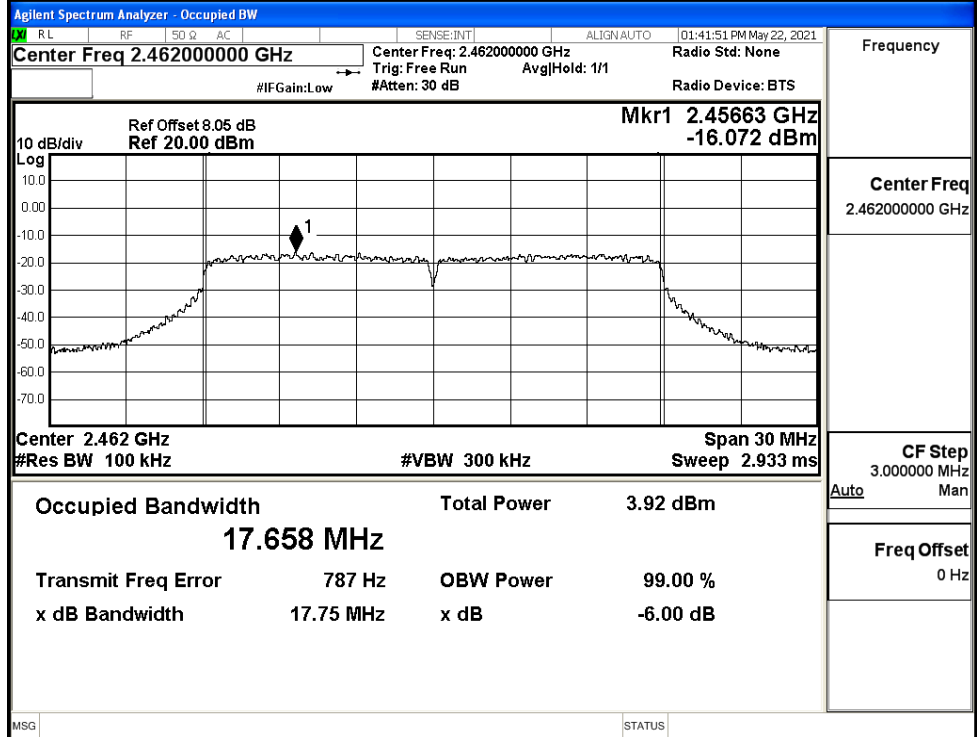
11N20SISO/LCH



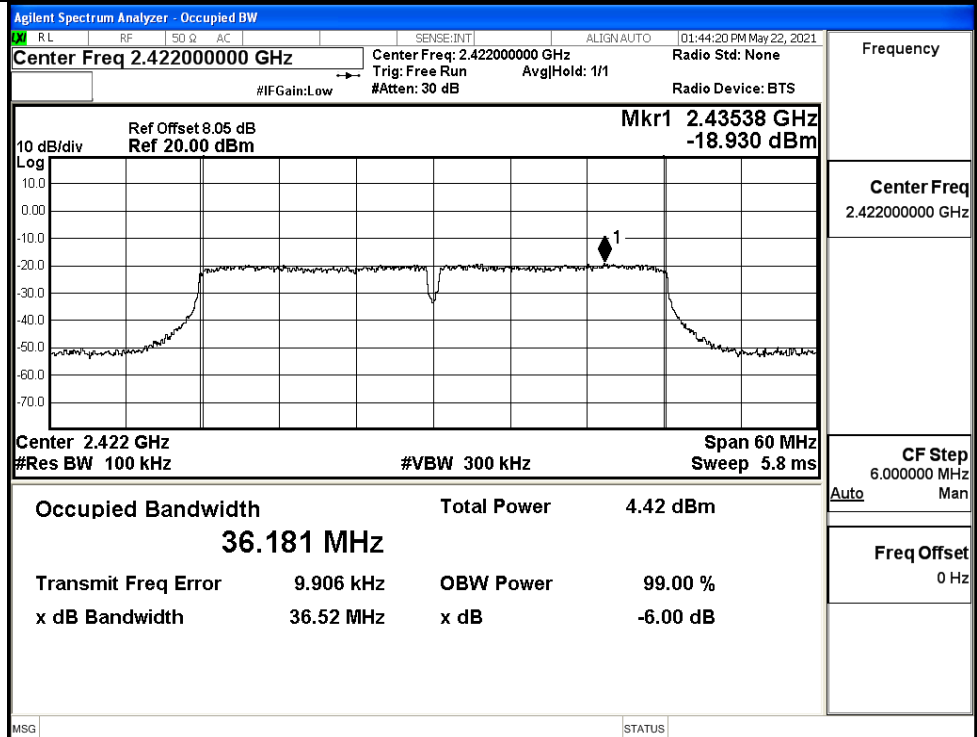
11N20SISO/MCH



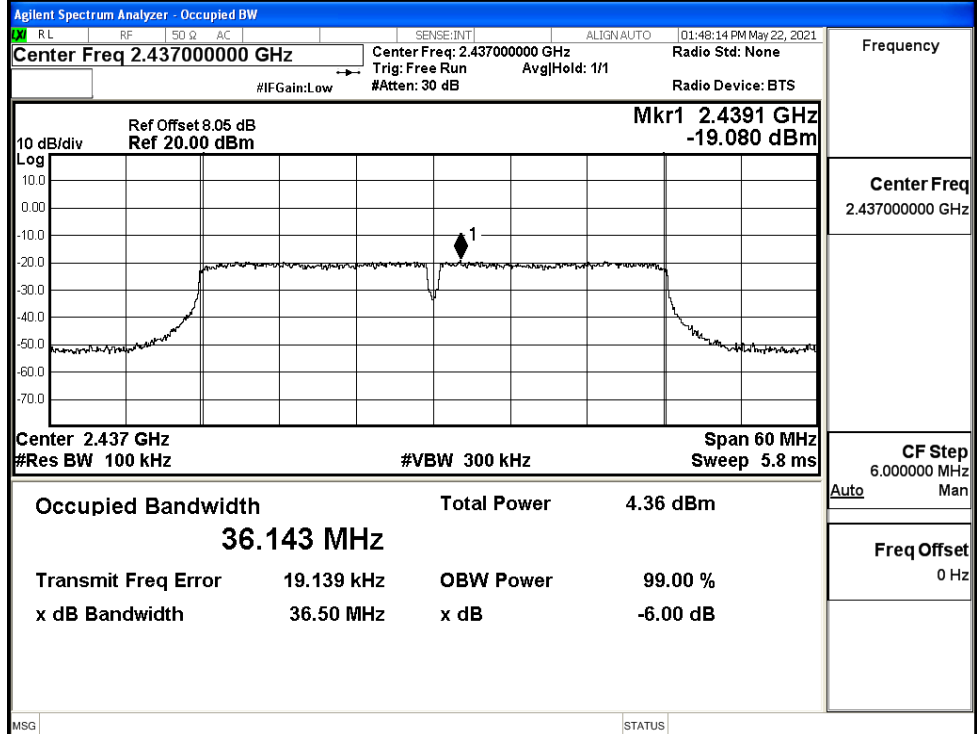
11N20SISO/HCH



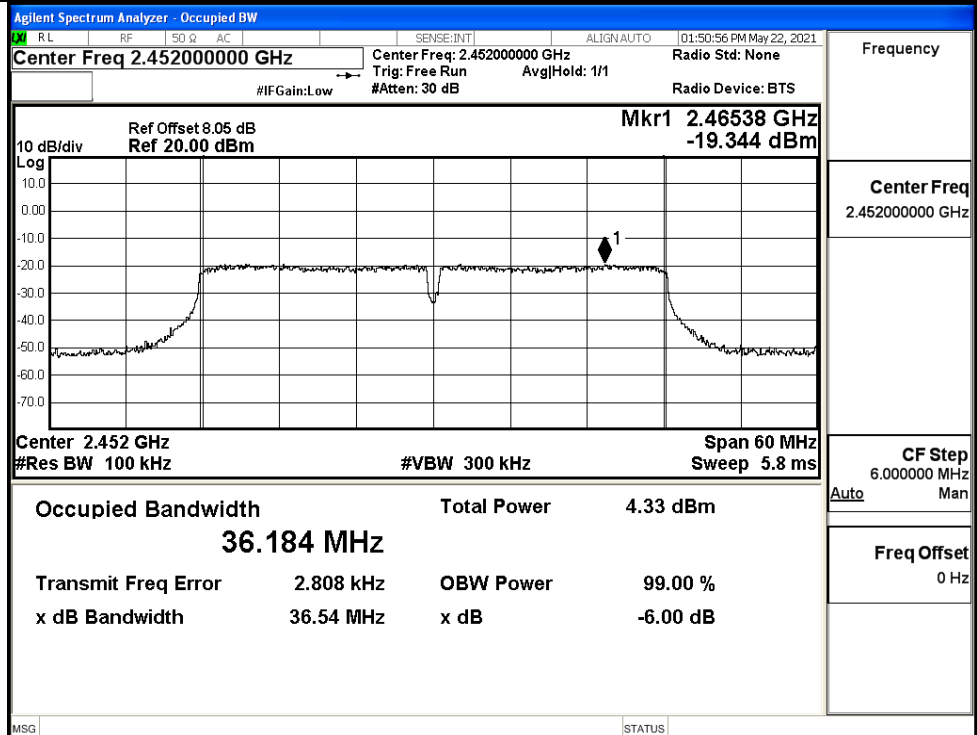
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH



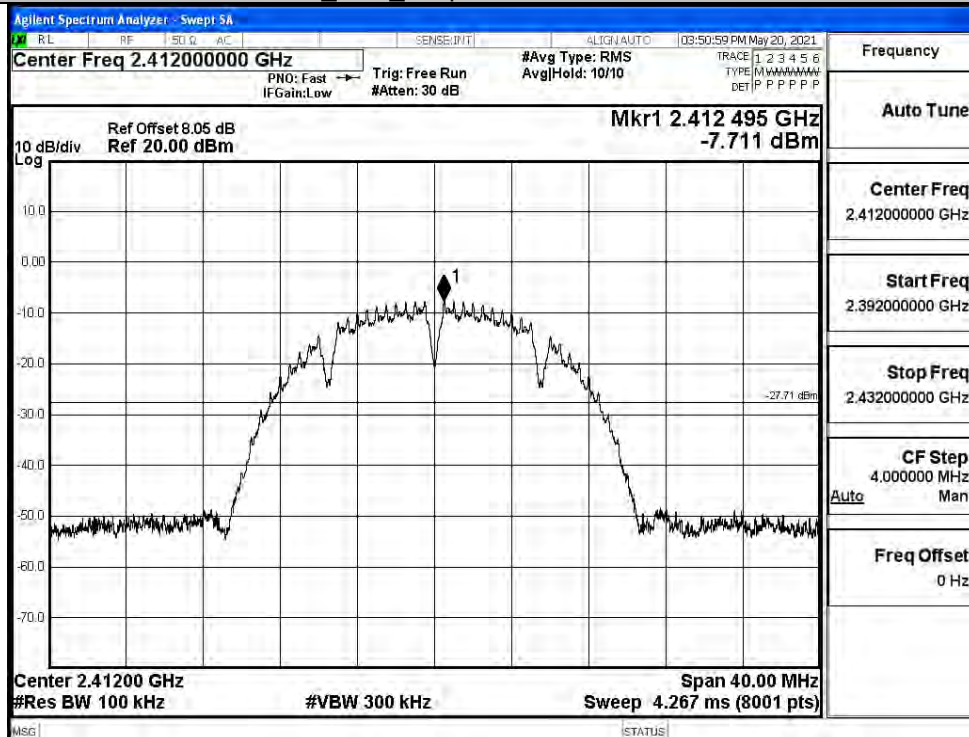
C.5 RF Conducted Spurious Emissions

ANT0

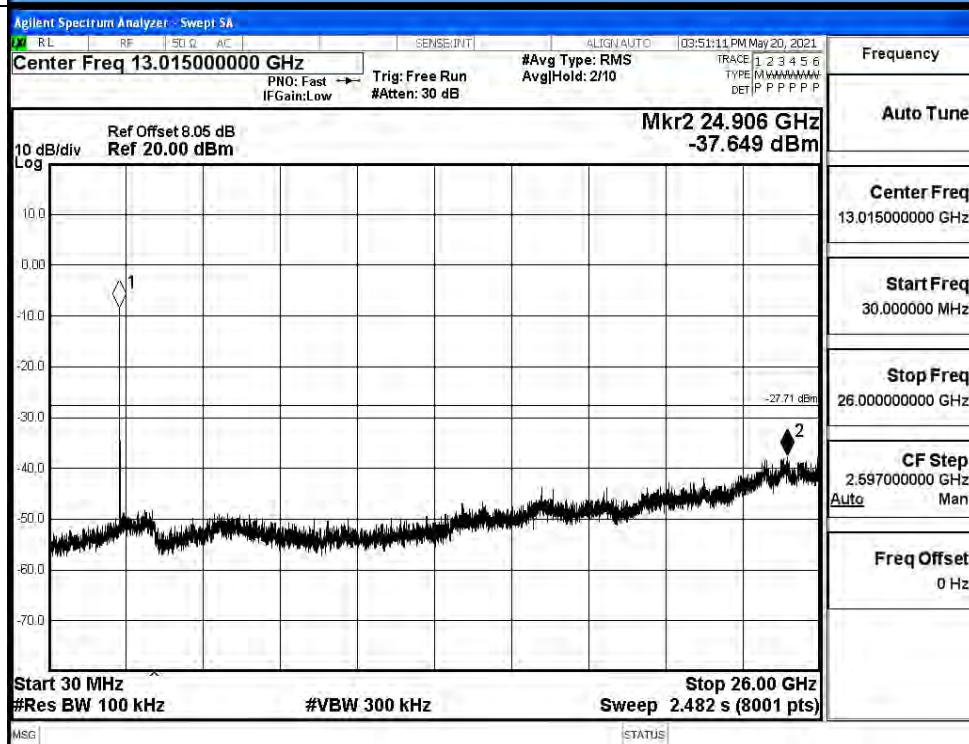
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-7.711	-37.649	-27.711	PASS
	MCH	-7.284	-38.022	-27.284	PASS
	HCH	-7.568	-37.875	-27.568	PASS
11G	LCH	-16.143	-37.698	-36.143	PASS
	MCH	-15.717	-38.832	-35.717	PASS
	HCH	-16.049	-38.452	-36.049	PASS
11N20 SISO	LCH	-15.923	-38.271	-35.923	PASS
	MCH	-16.196	-38.022	-36.196	PASS
	HCH	-16.387	-38.250	-36.387	PASS
11N40 SISO	LCH	-16.577	-38.433	-36.577	PASS
	MCH	-16.914	-38.308	-36.914	PASS
	HCH	-16.958	-38.444	-36.958	PASS

11B LCH Graphs

Pref/11B/LCH

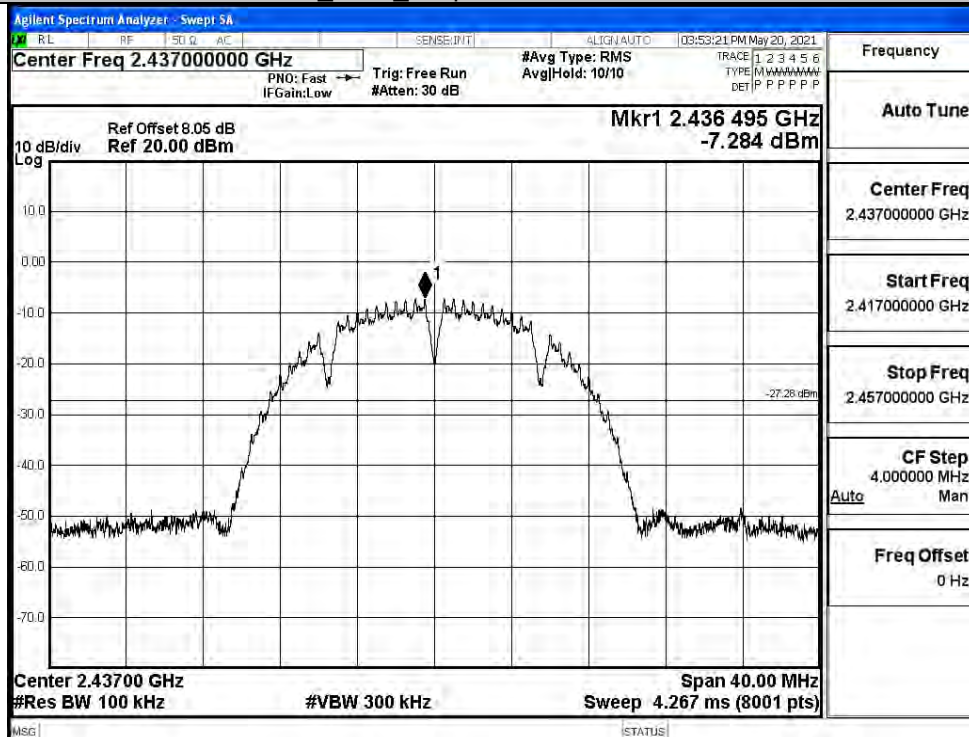


Puw/11B/LCH

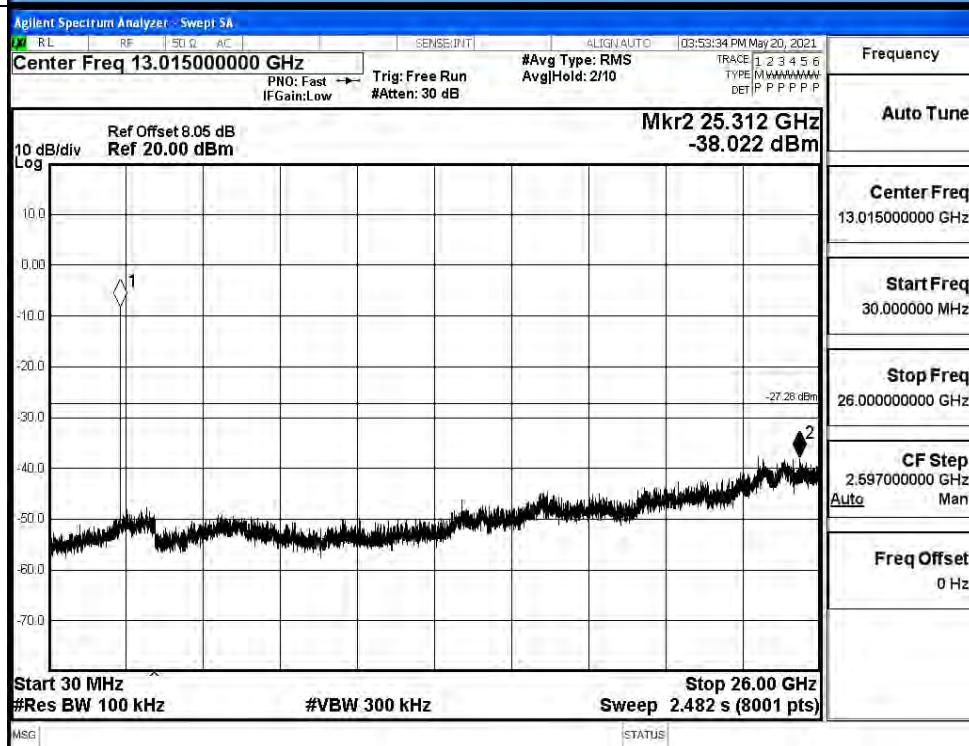


11B MCH Graphs

Pref/11B/MCH

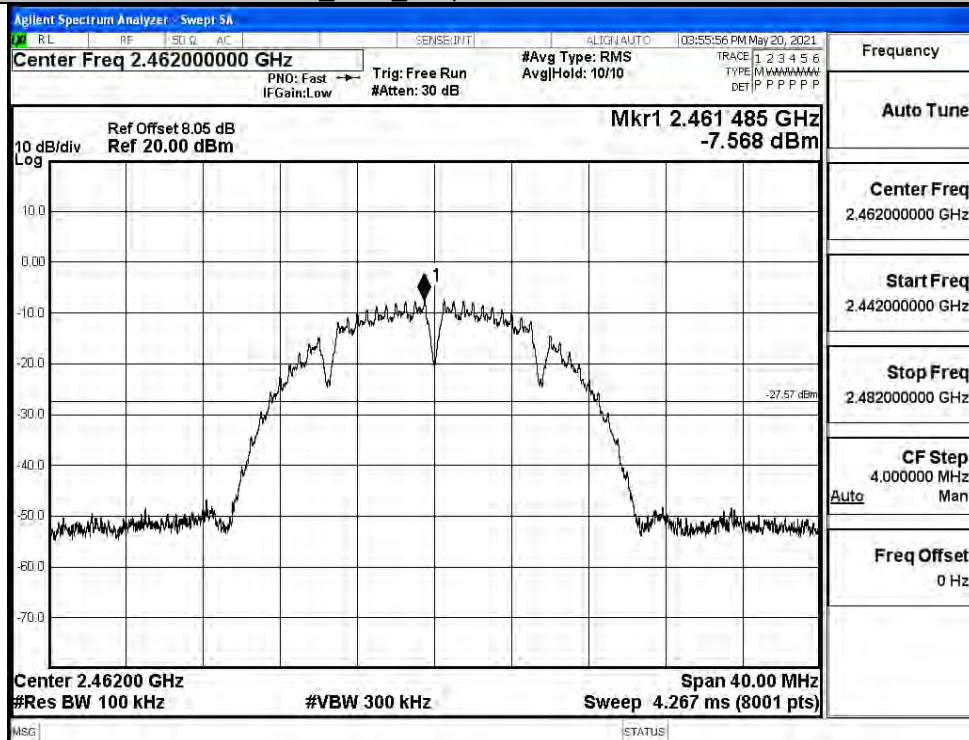


Puw/11B/MCH

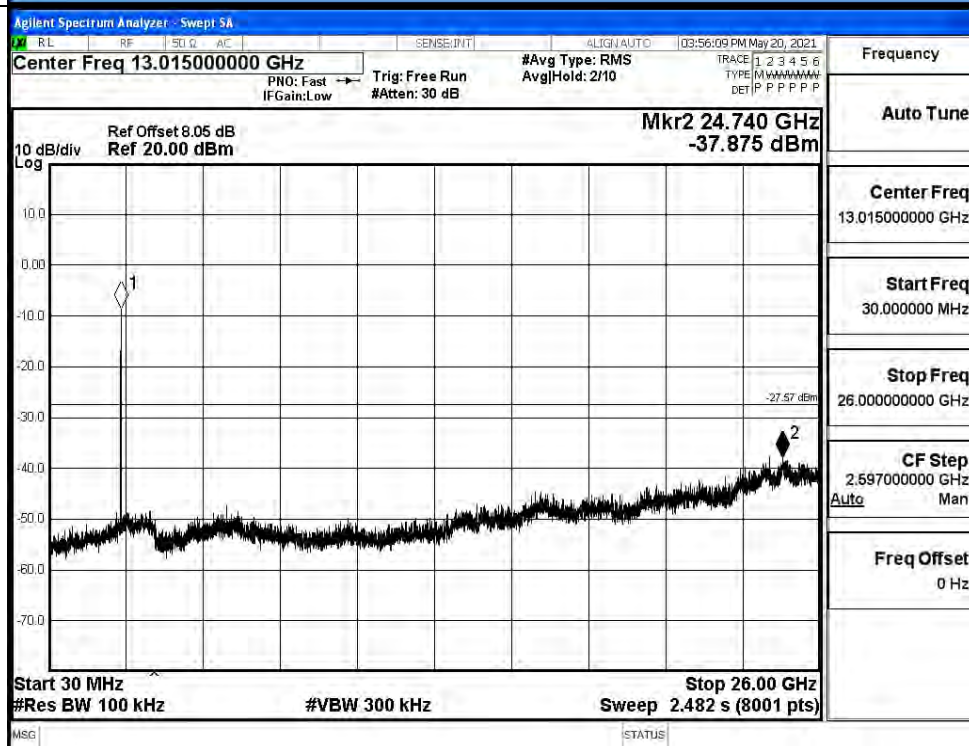


11B HCH Graphs

Pref/11B/HCH

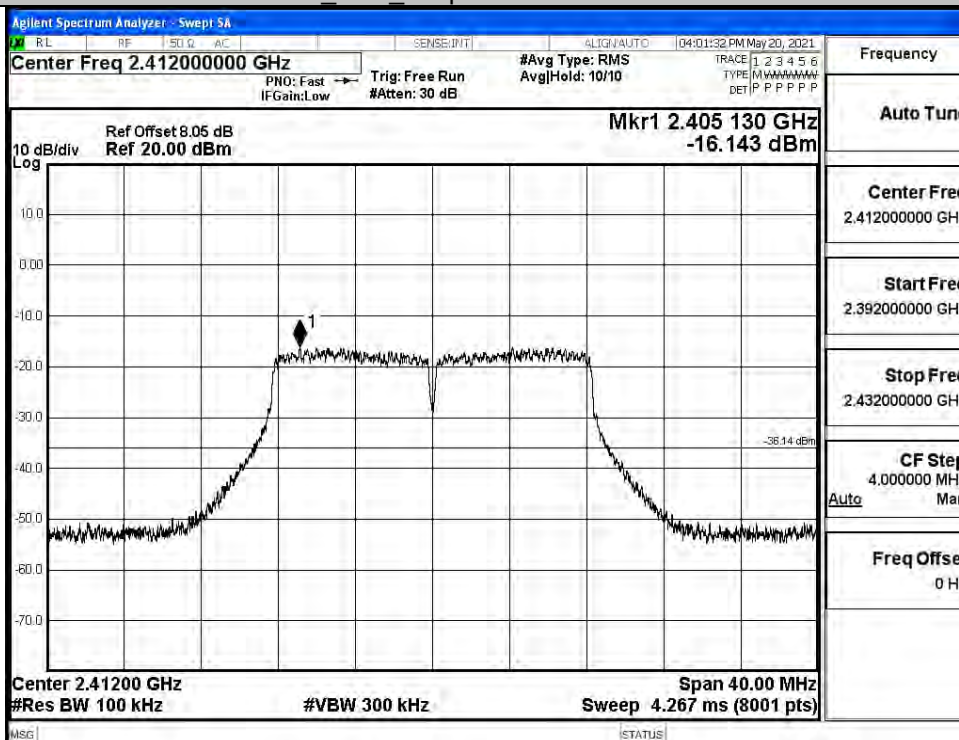


Puw/11B/HCH

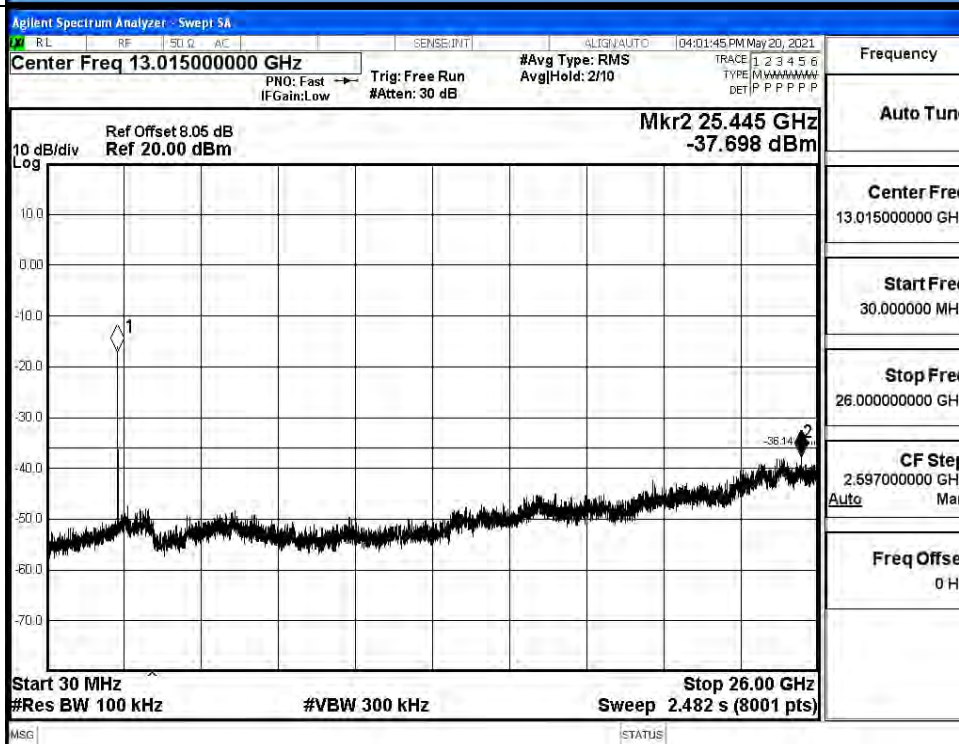


11G LCH Graphs

Pref/11G/LCH

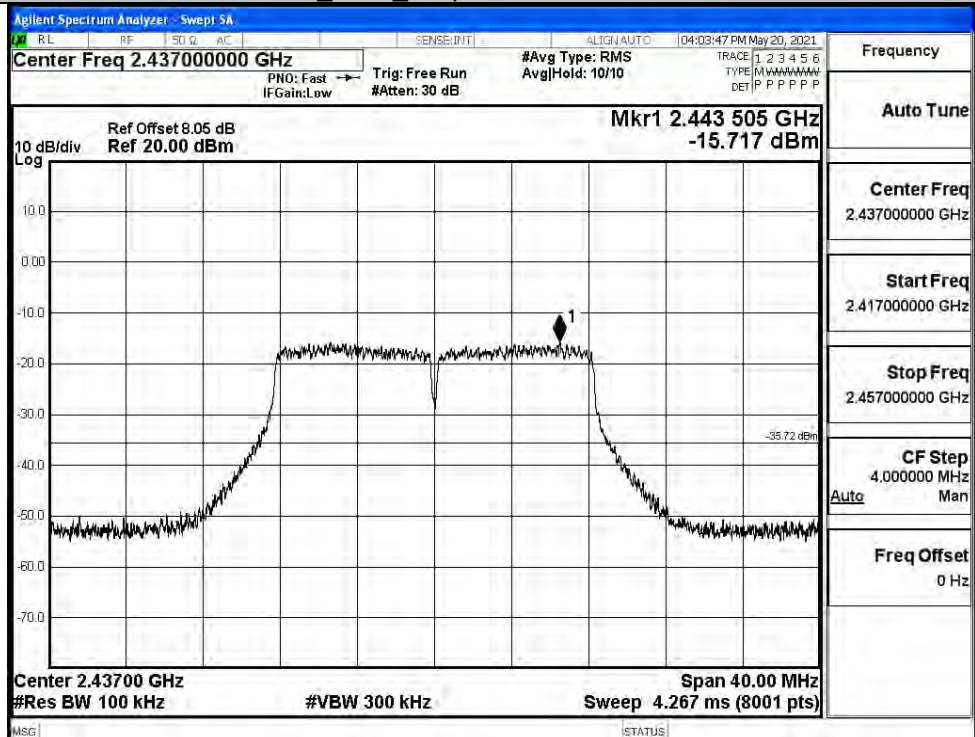


Puw/11G/LCH



11G MCH Graphs

Pref/11G/MCH

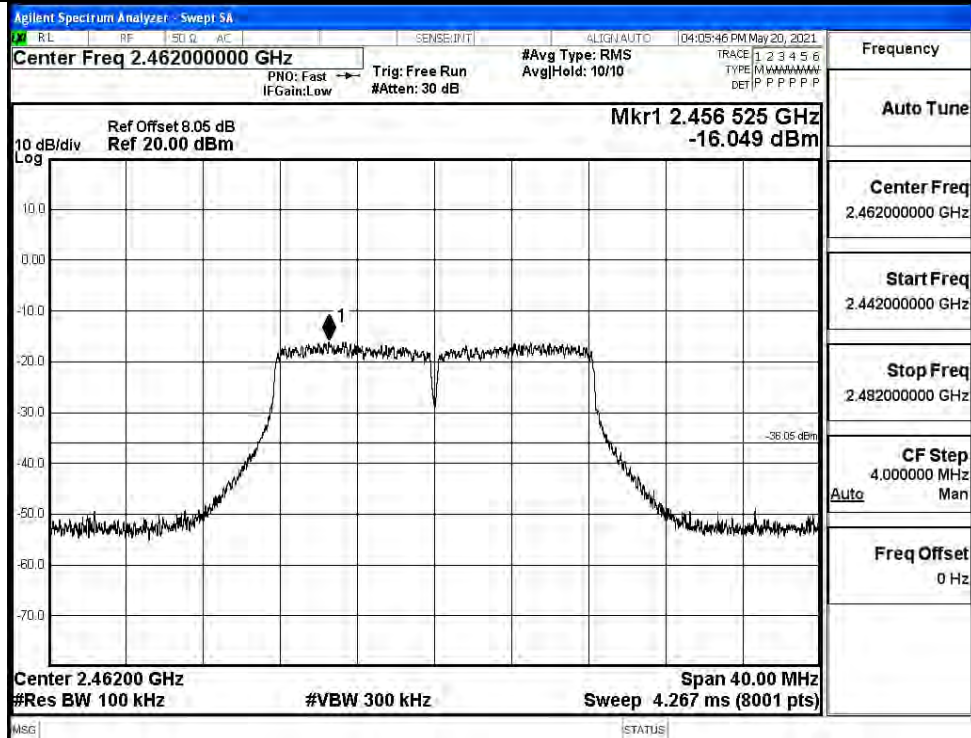


Puw/11G/MCH

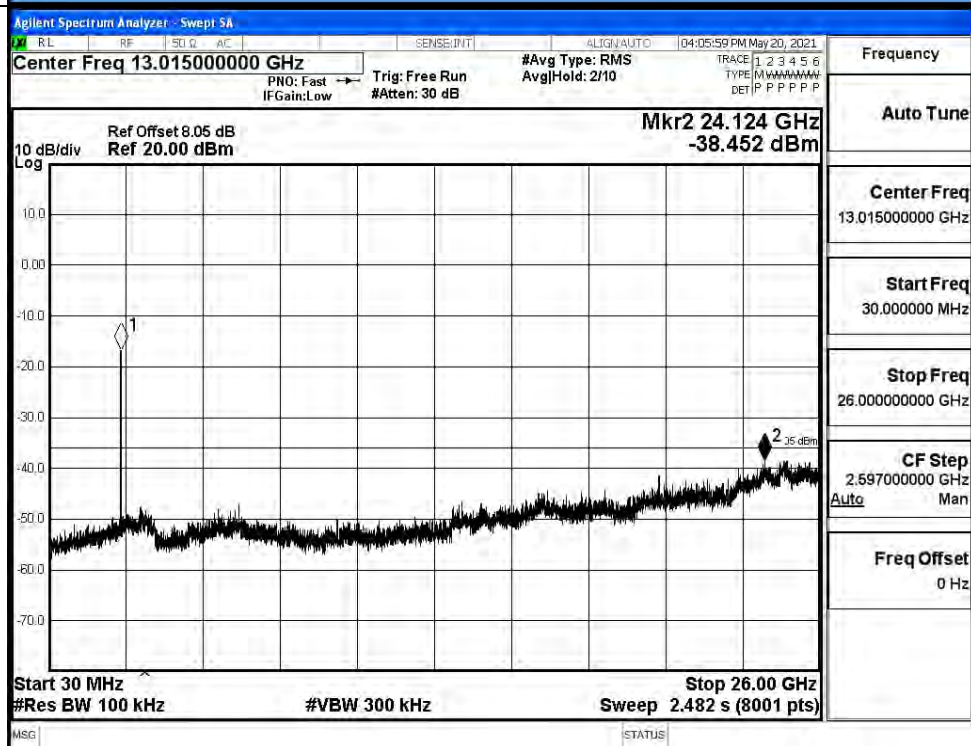


11G HCH Graphs

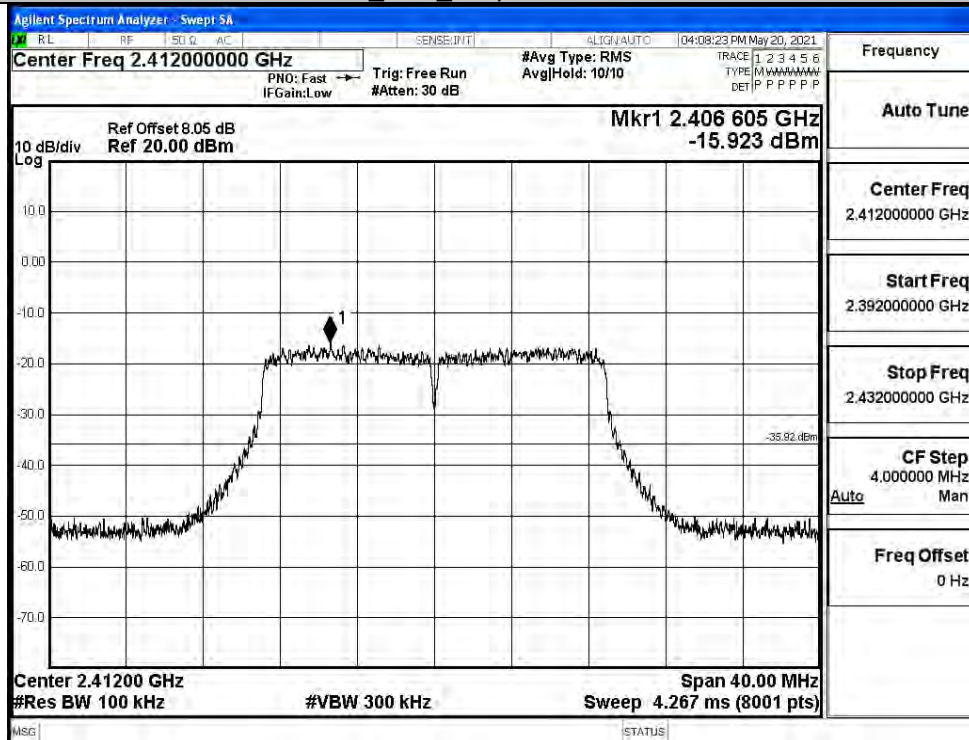
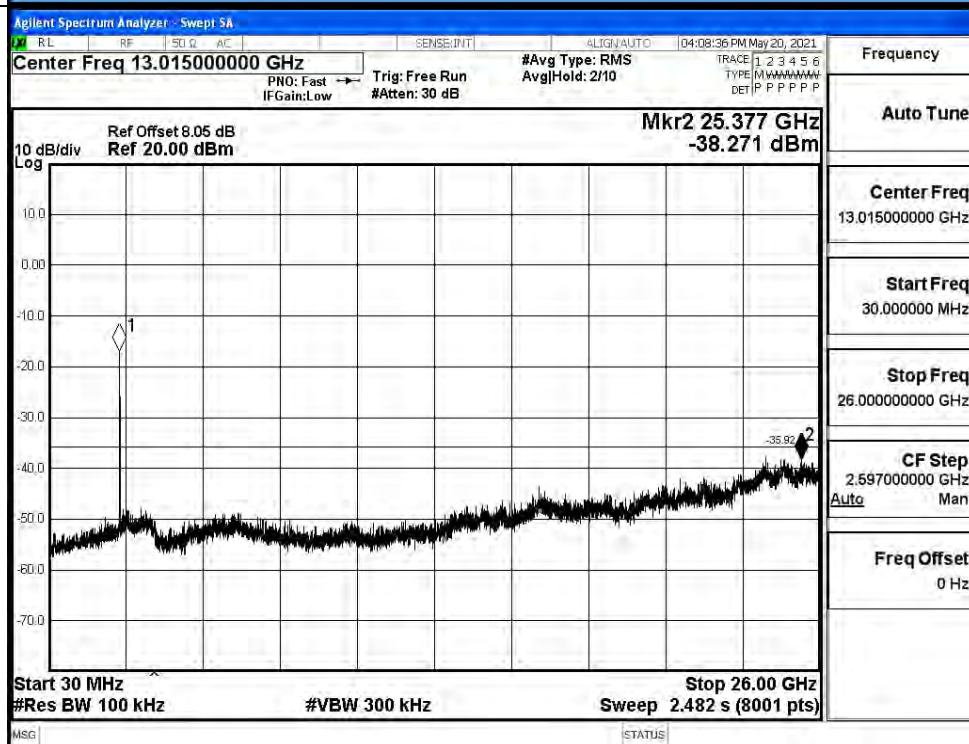
Pref/11G/HCH



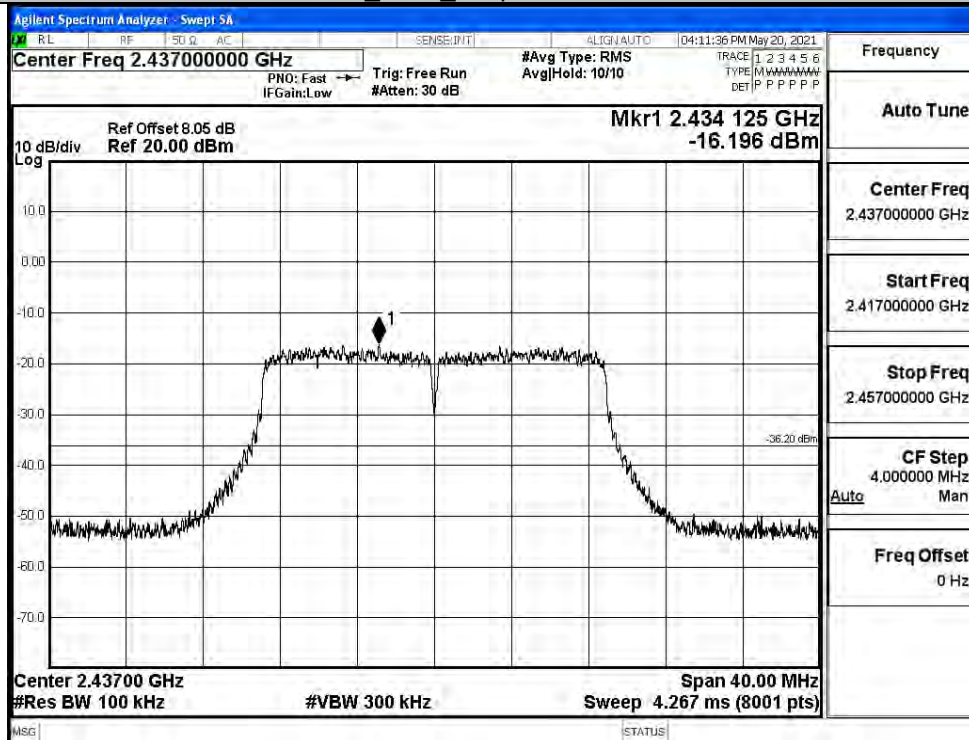
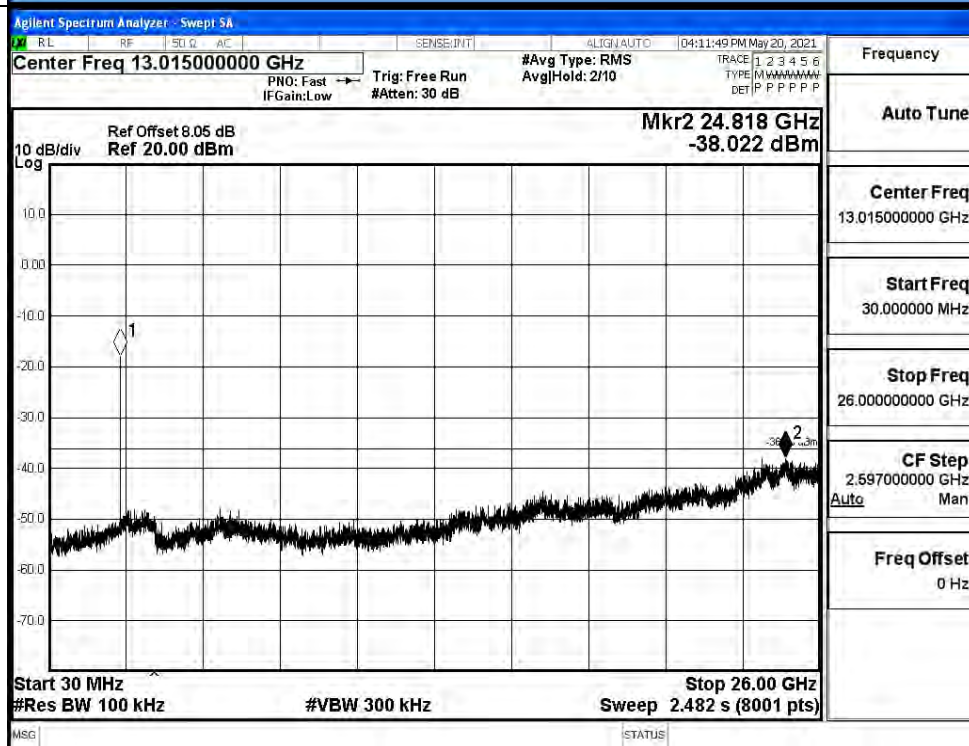
Puw/11G/HCH



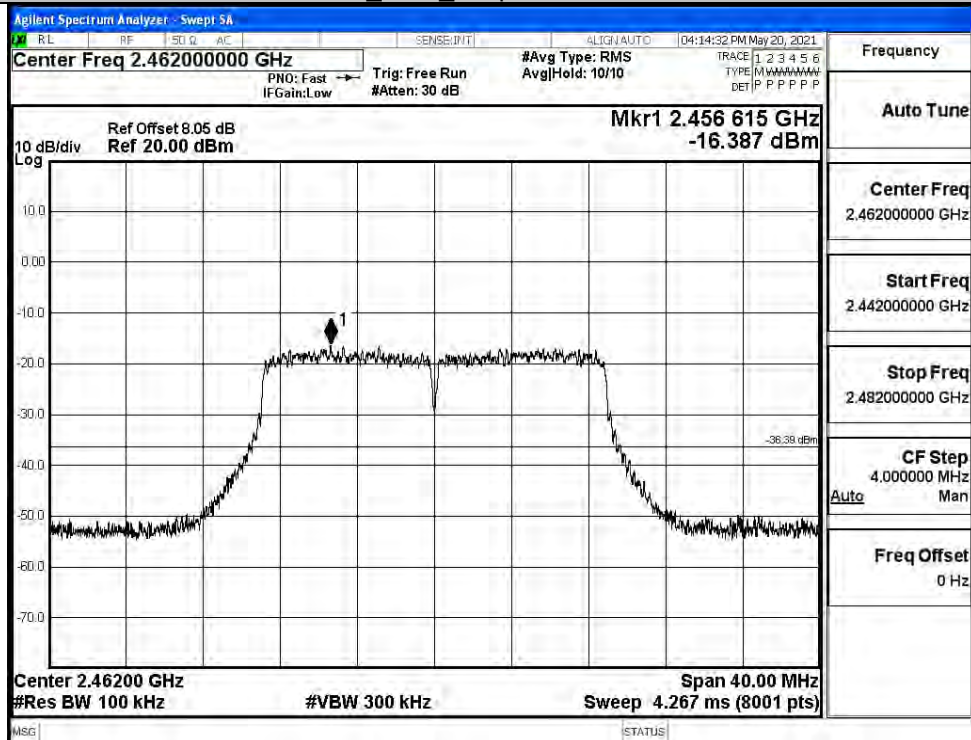
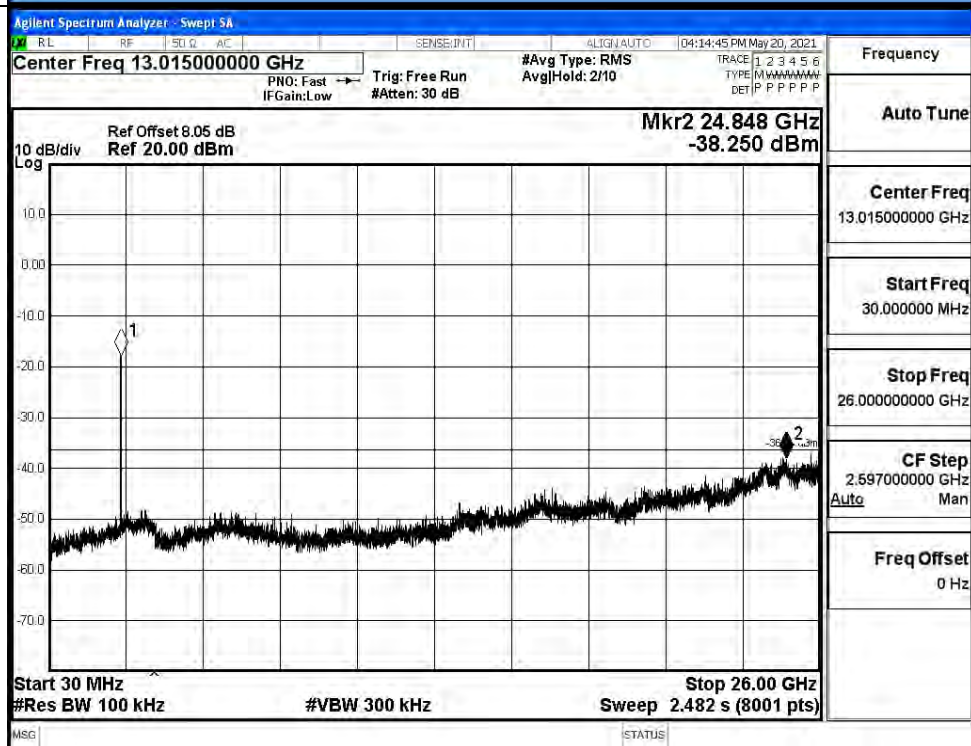
11N20SISO LCH Graphs

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

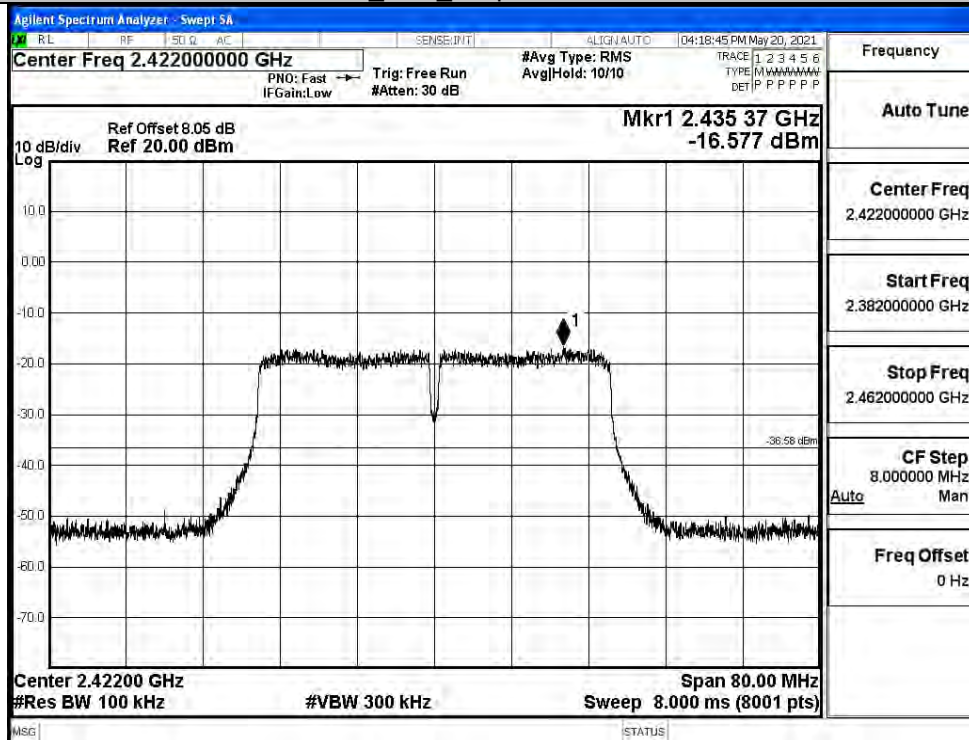
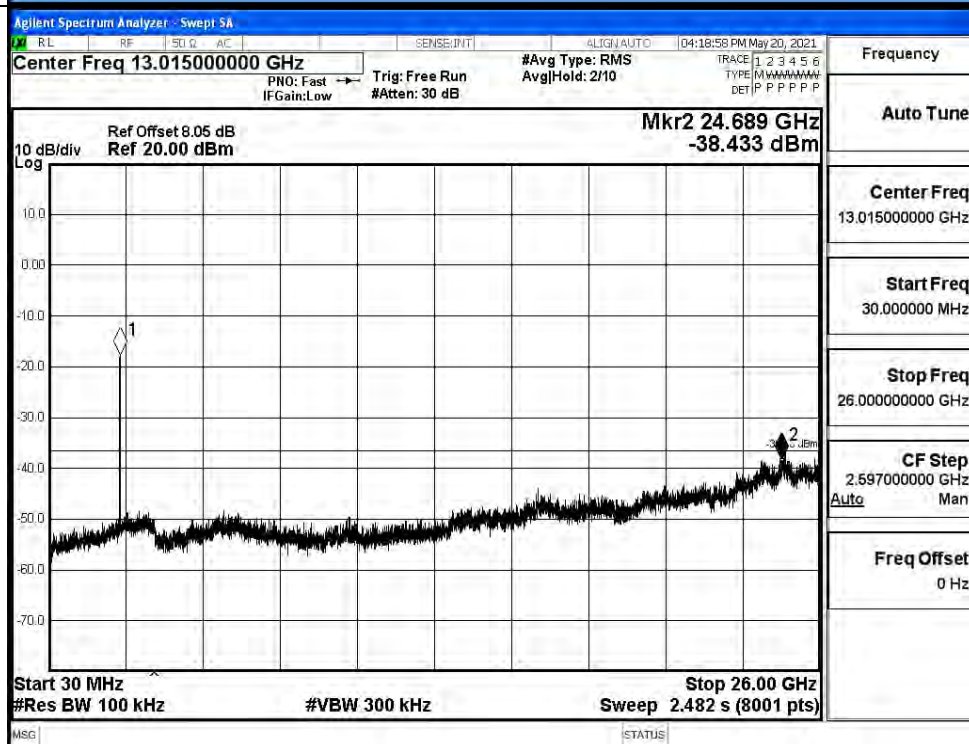
11N20SISO_MCH_Graphs

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

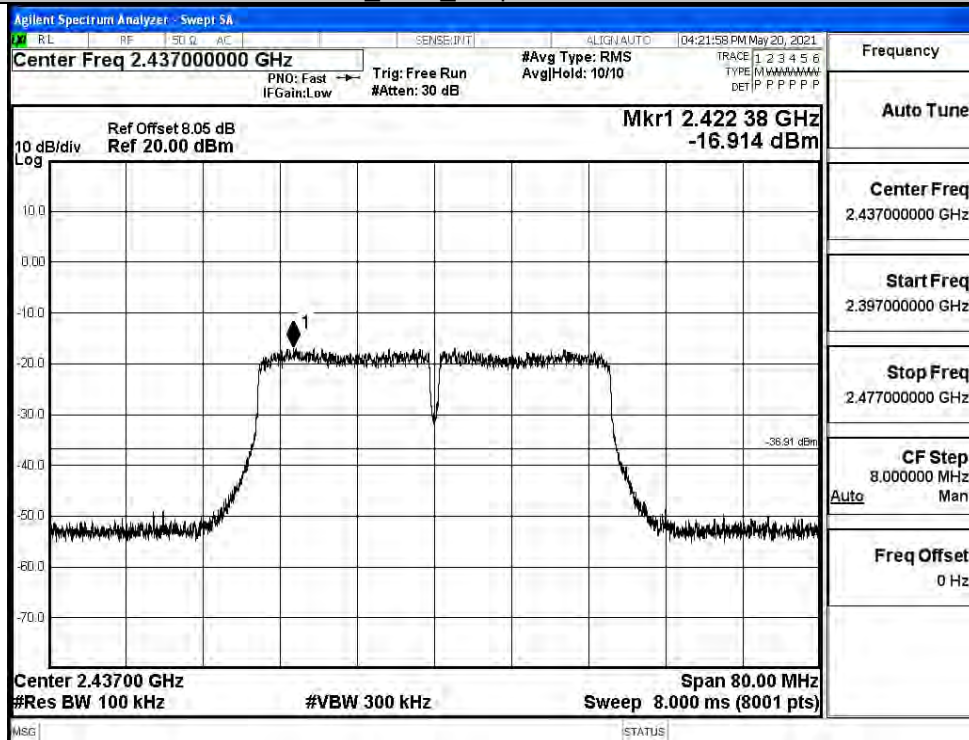
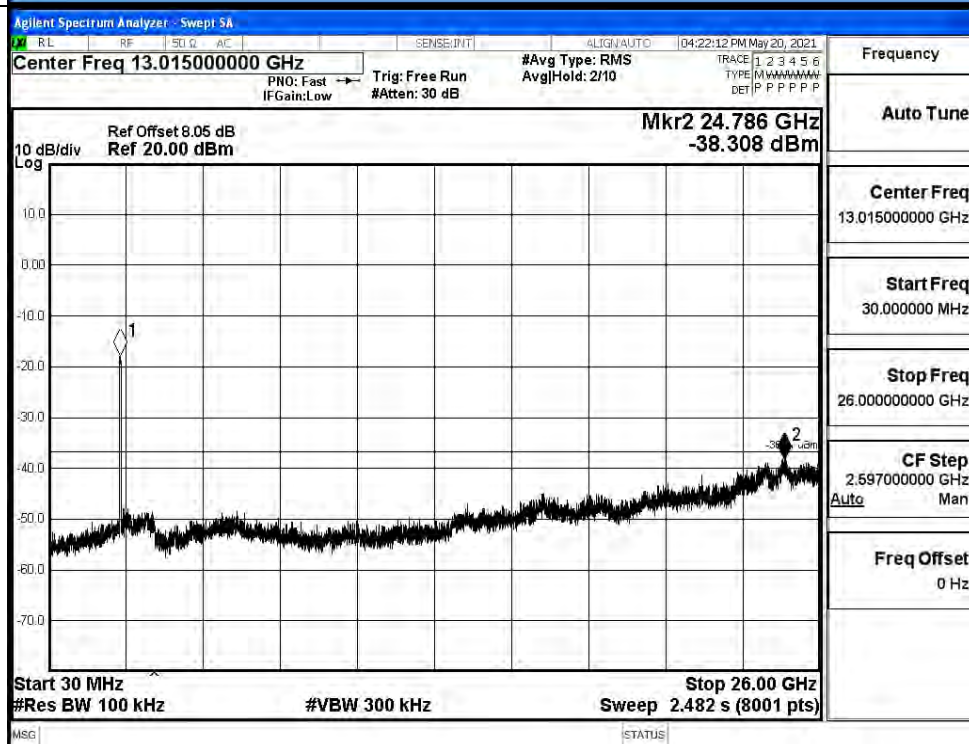
11N20SISO HCH Graphs

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

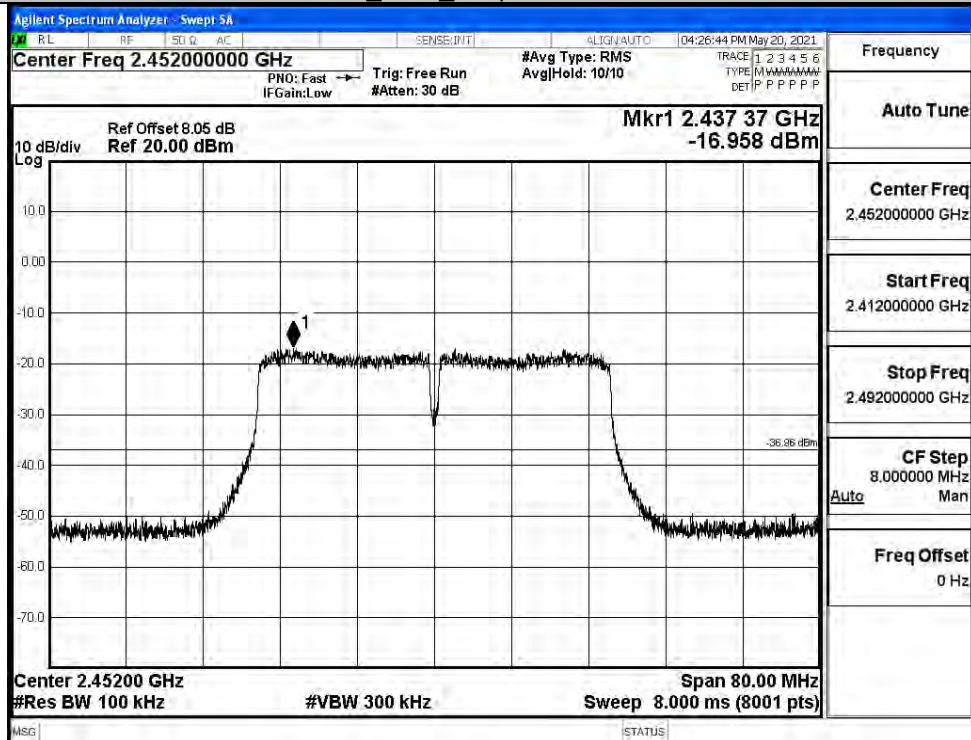
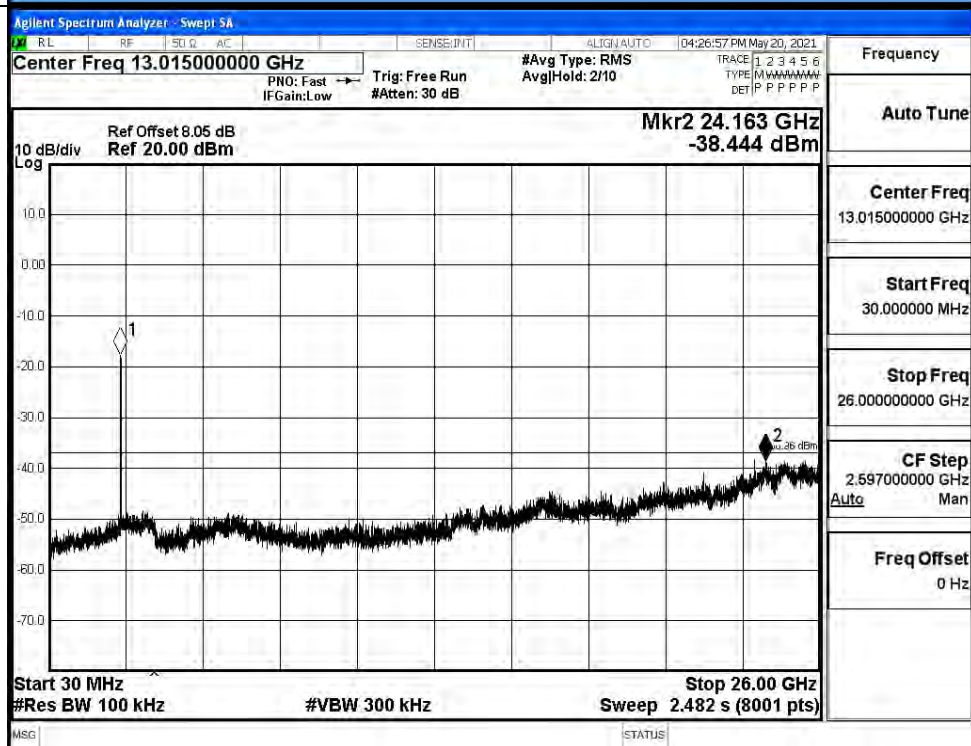
11N40SISO LCH Graphs

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

11N40SISO_MCH_Graphs

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

11N40SISO HCH Graphs

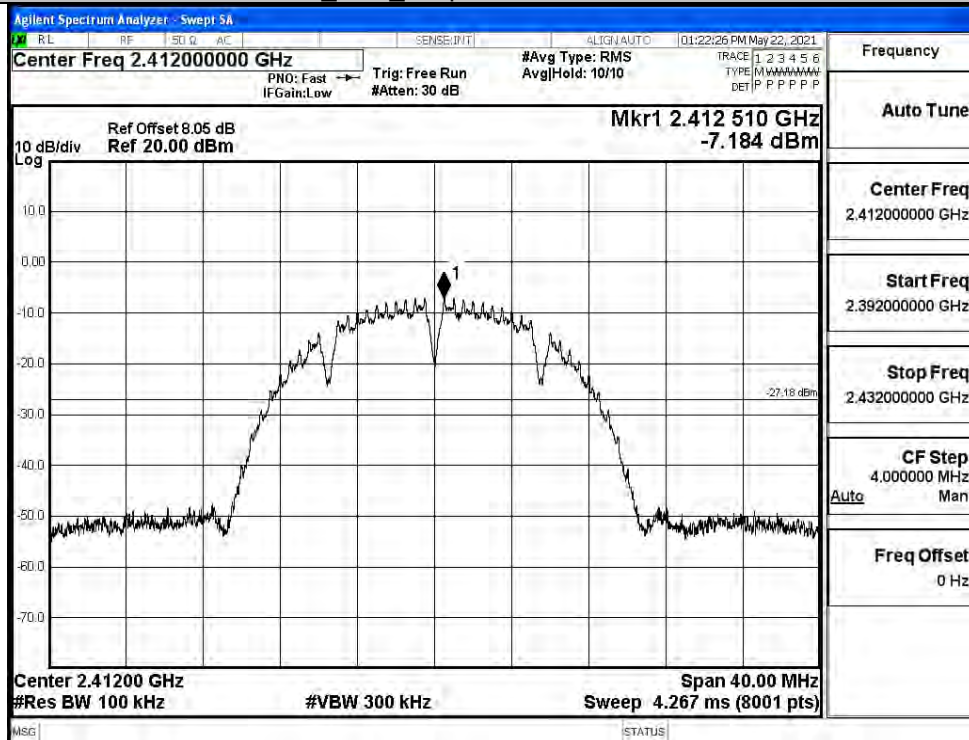
Pref/11N40
SISO/HCHPuw/11N40
SISO/HCH

ANT1

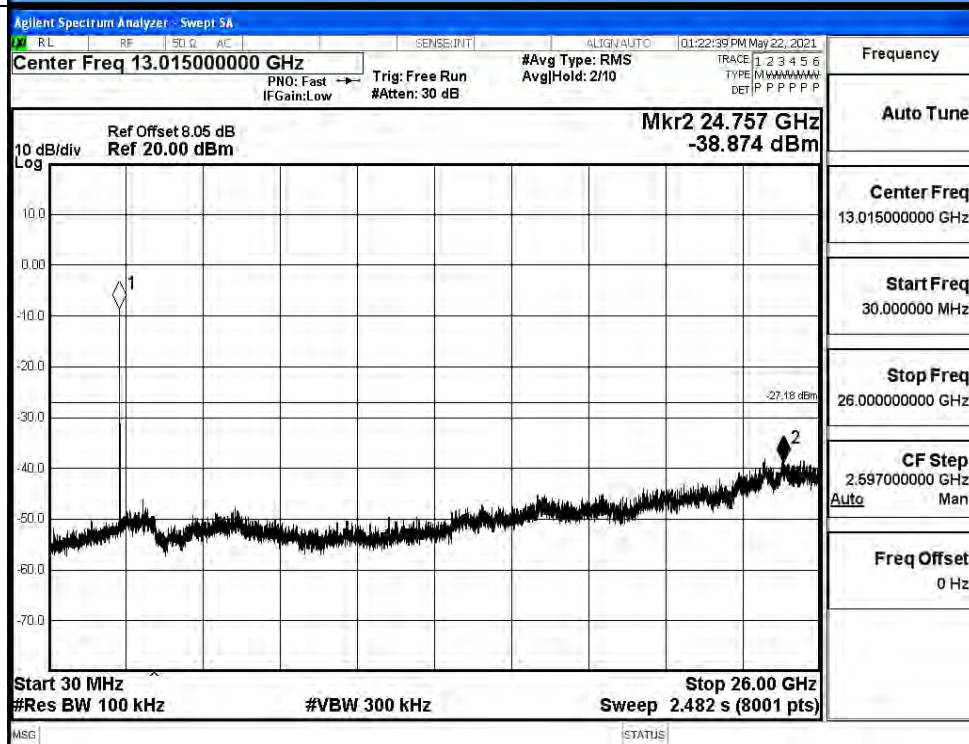
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-7.184	-38.874	-27.184	PASS
	MCH	-7.269	-37.402	-27.269	PASS
	HCH	-7.471	-38.584	-27.471	PASS
11G	LCH	-16.107	-38.218	-36.107	PASS
	MCH	-16.287	-37.539	-36.287	PASS
	HCH	-16.526	-36.910	-36.526	PASS
11N20 SISO	LCH	-16.553	-38.271	-36.553	PASS
	MCH	-15.845	-37.212	-35.845	PASS
	HCH	-16.236	-37.744	-36.236	PASS
11N40 SISO	LCH	-16.129	-38.014	-36.129	PASS
	MCH	-16.557	-38.264	-36.557	PASS
	HCH	-16.516	-38.315	-36.516	PASS

11B LCH Graphs

Pref/11B/LCH

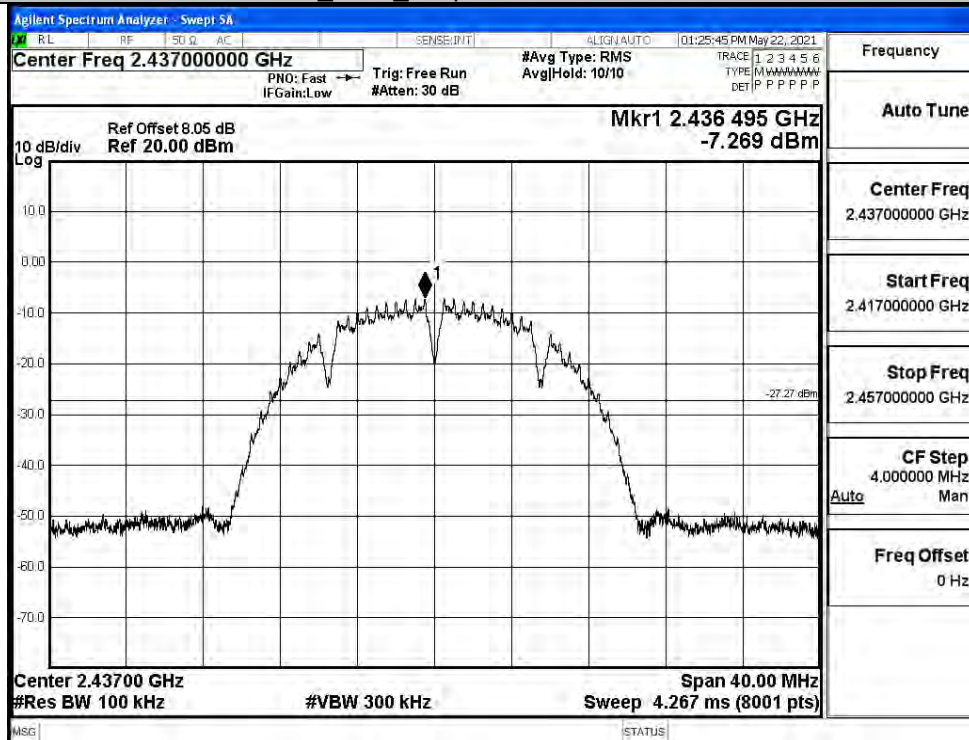


Puw/11B/LCH

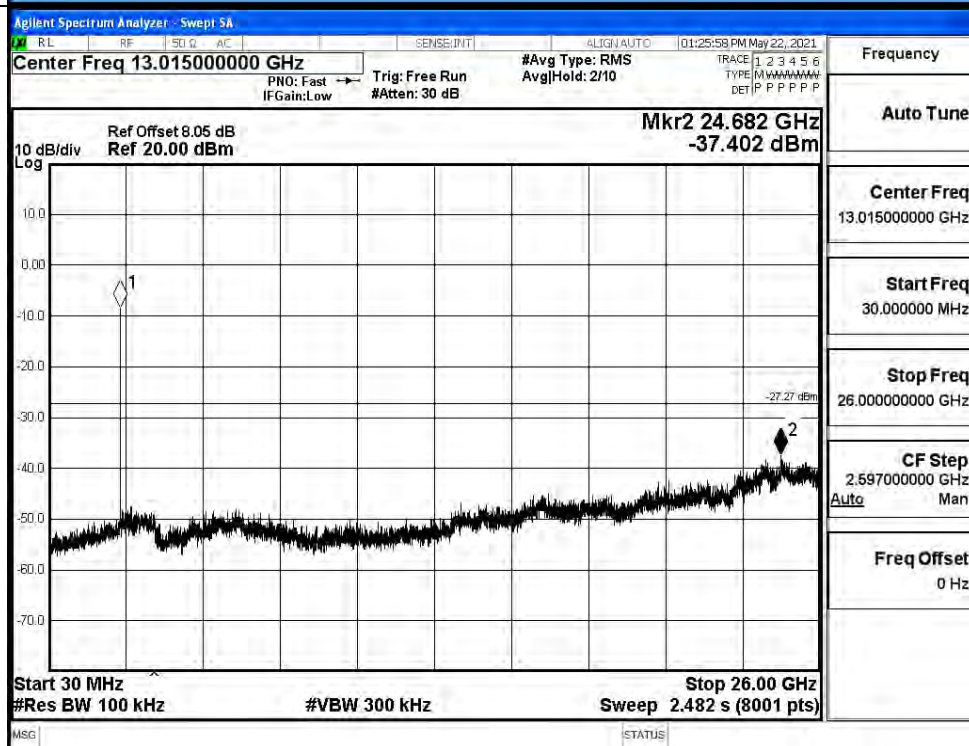


11B MCH Graphs

Pref/11B/MCH

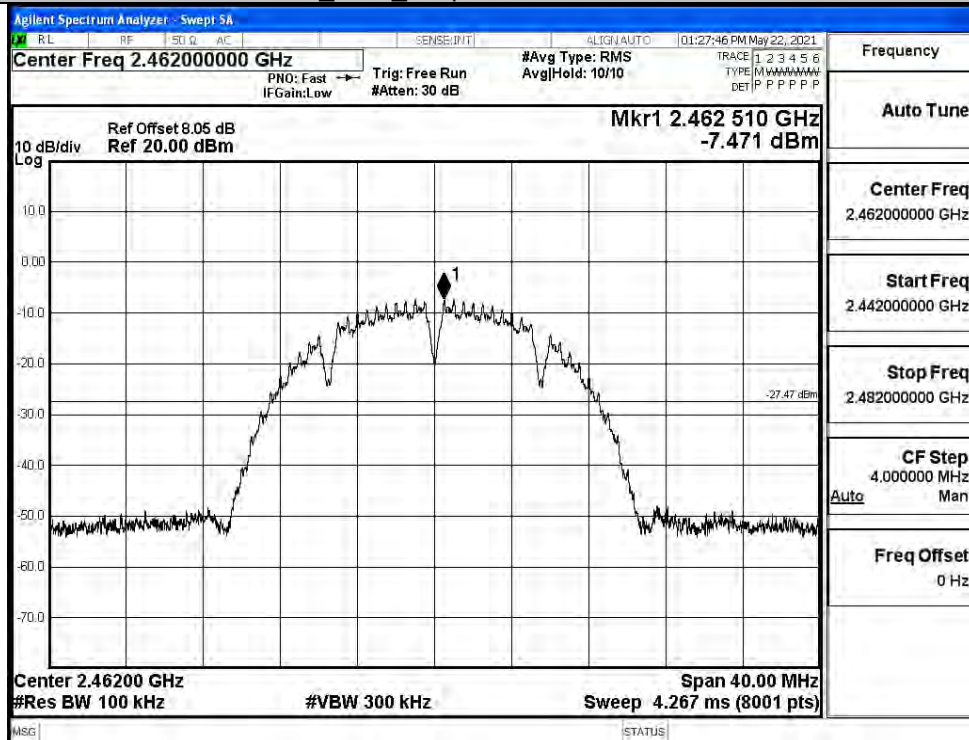


Puw/11B/MCH



11B HCH Graphs

Pref/11B/HCH

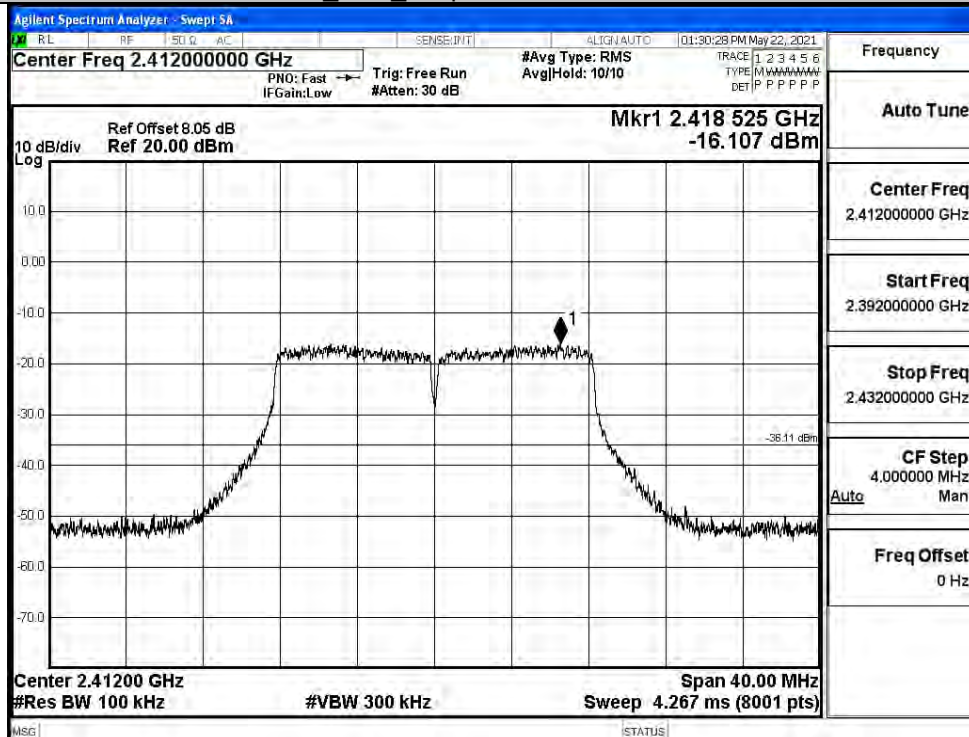


Puw/11B/HCH

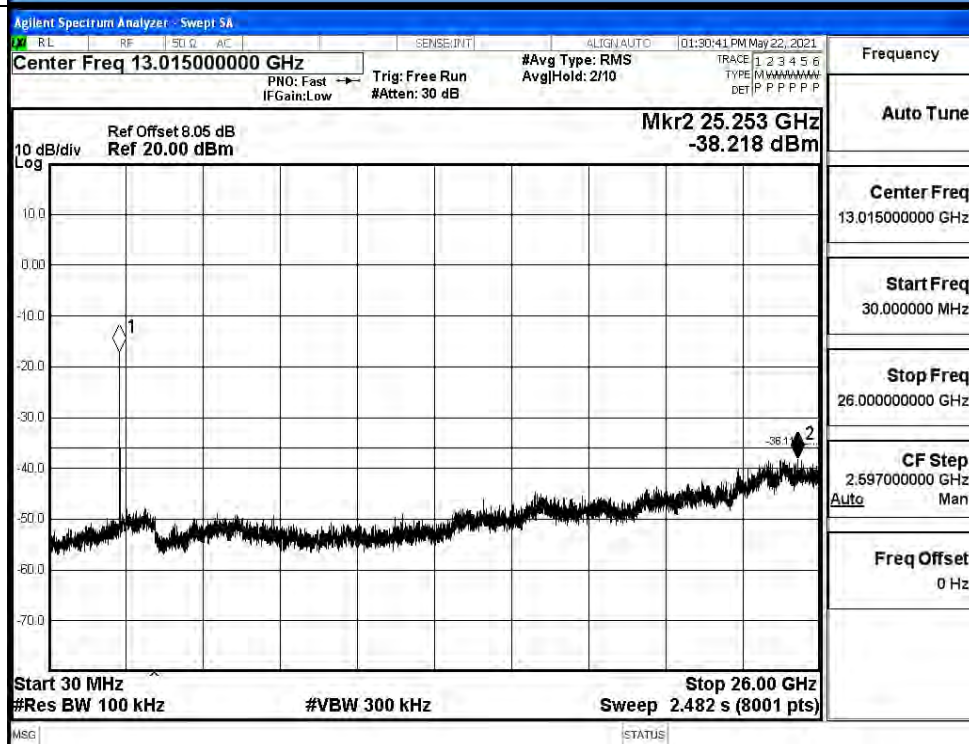


11G LCH Graphs

Pref/11G/LCH

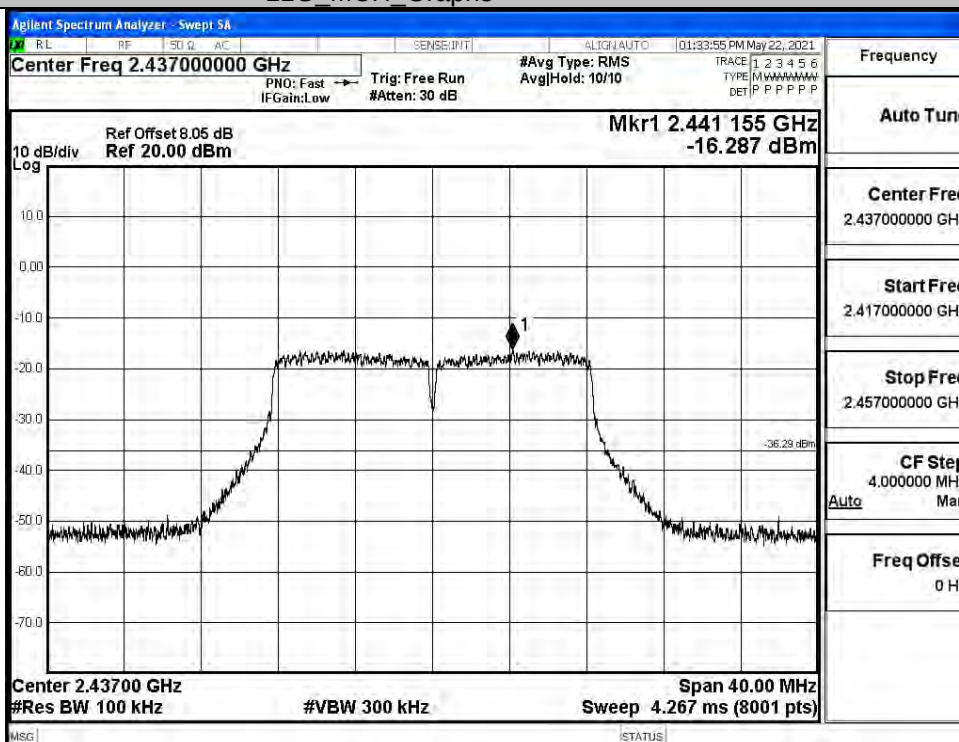


Puw/11G/LCH

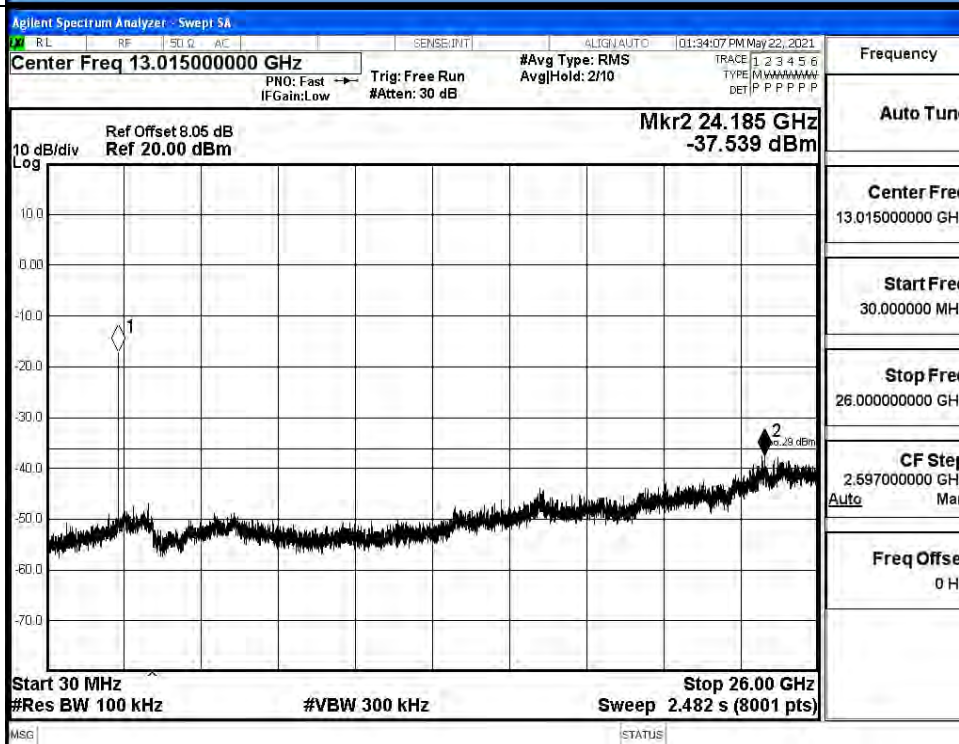


11G MCH Graphs

Pref/11G/MCH

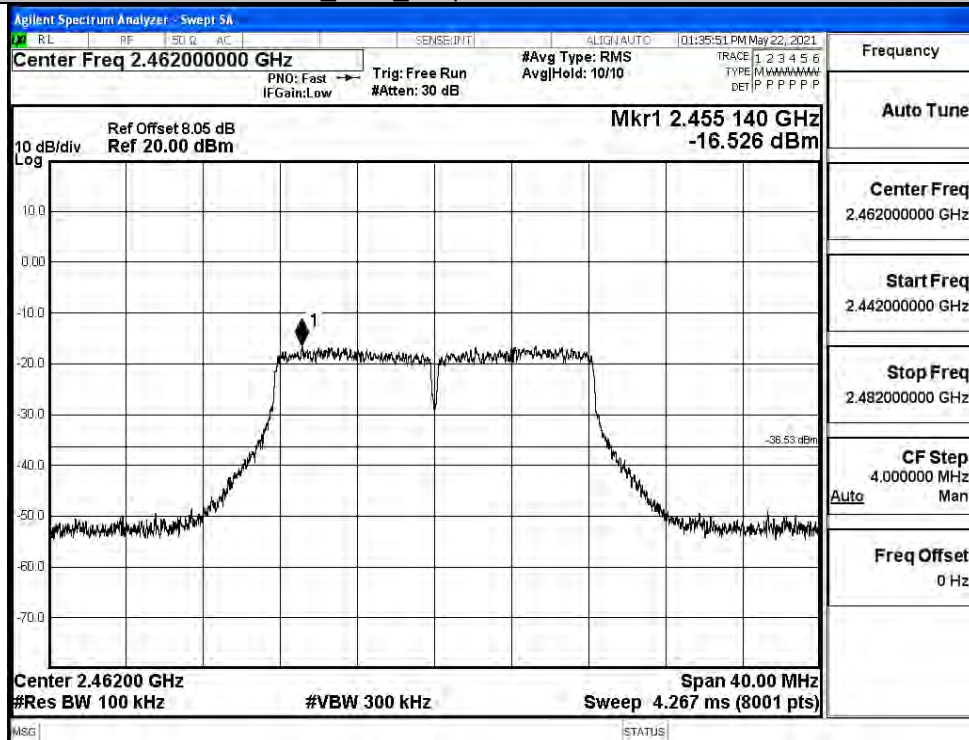


Puw/11G/MCH

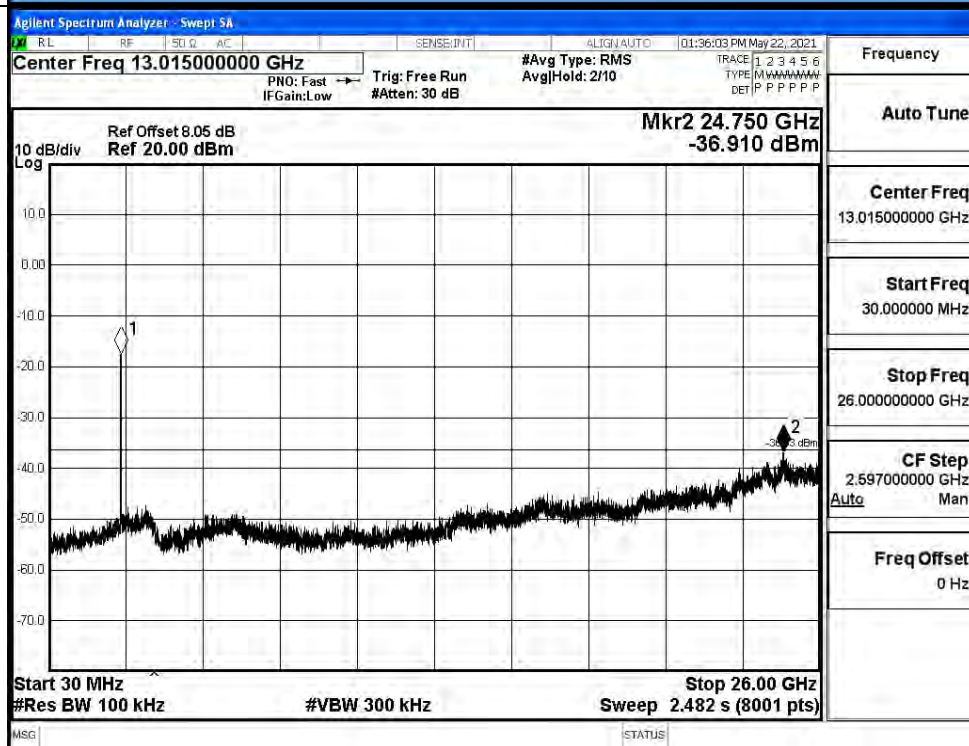


11G HCH Graphs

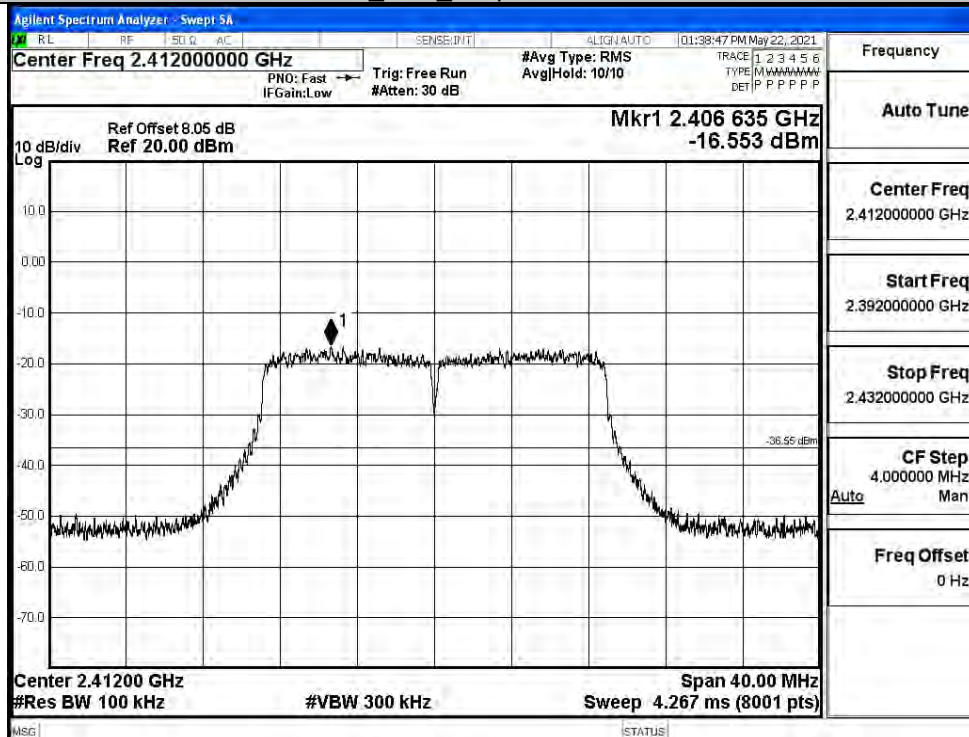
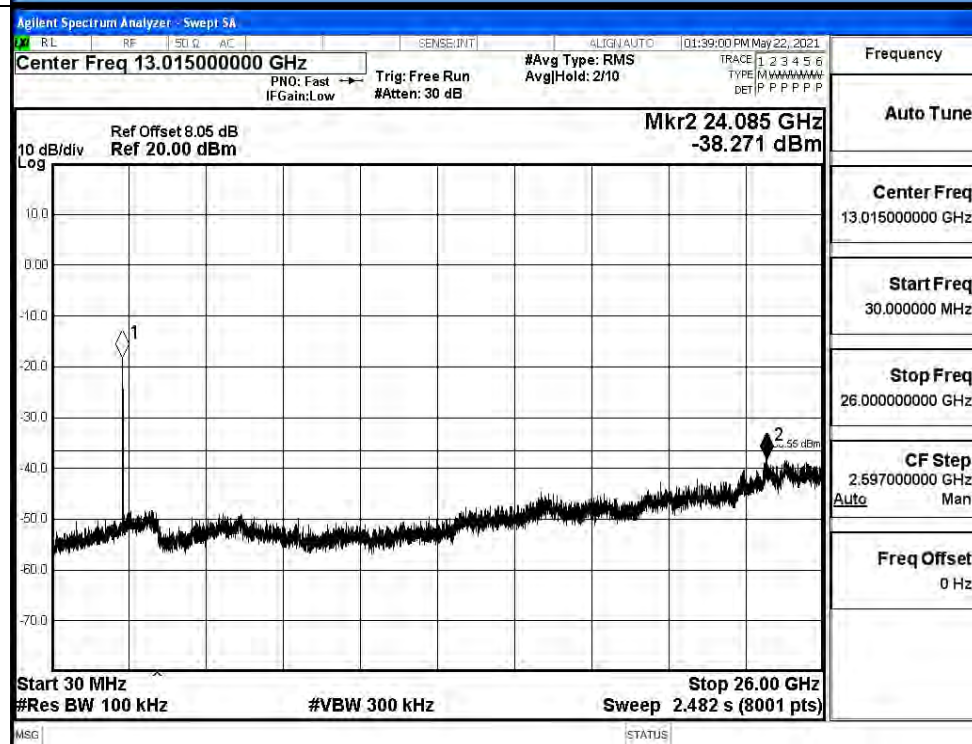
Pref/11G/HCH



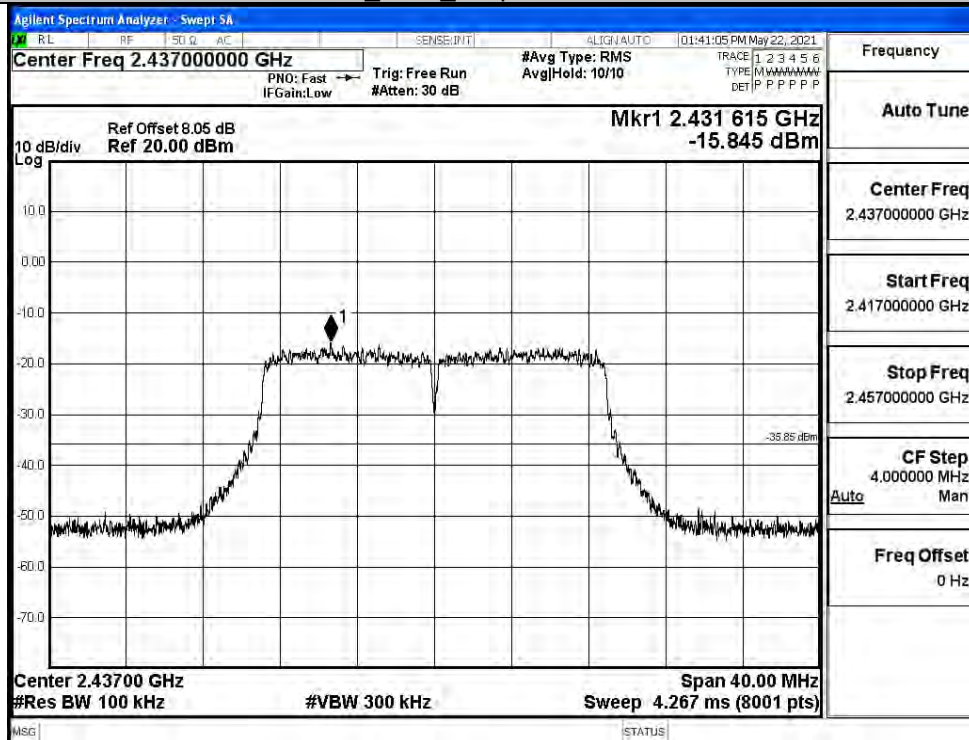
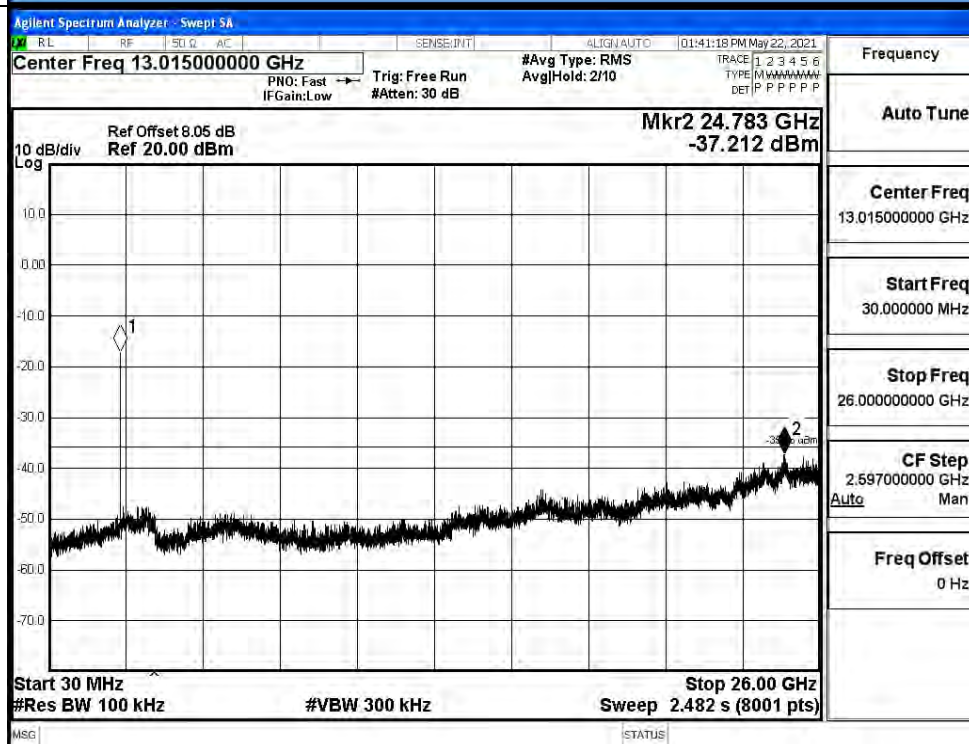
Puw/11G/HCH



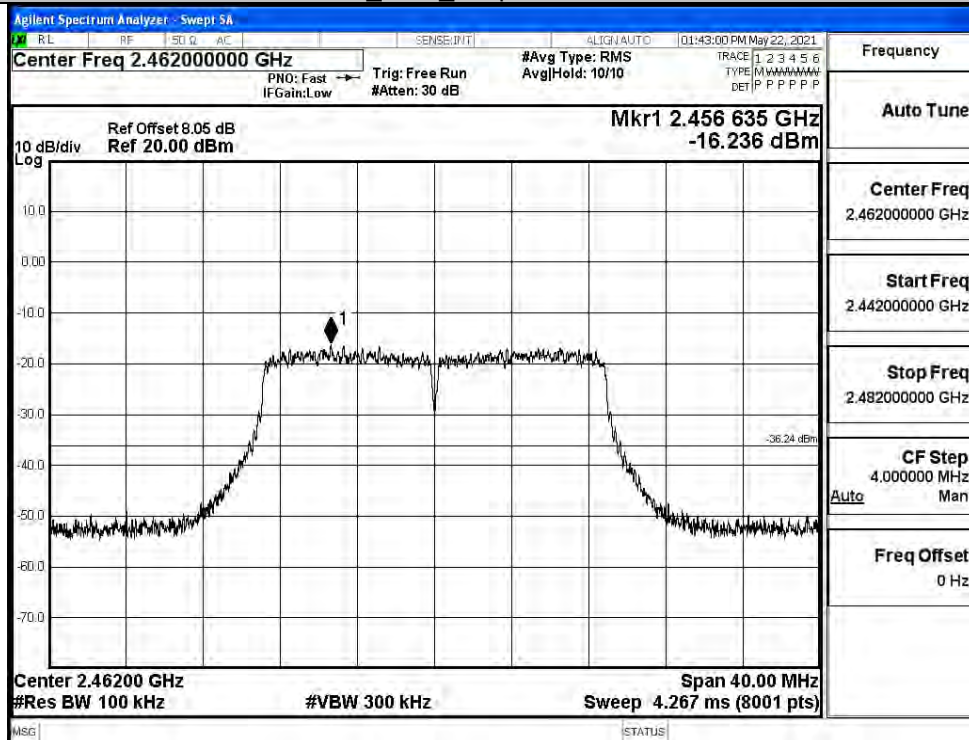
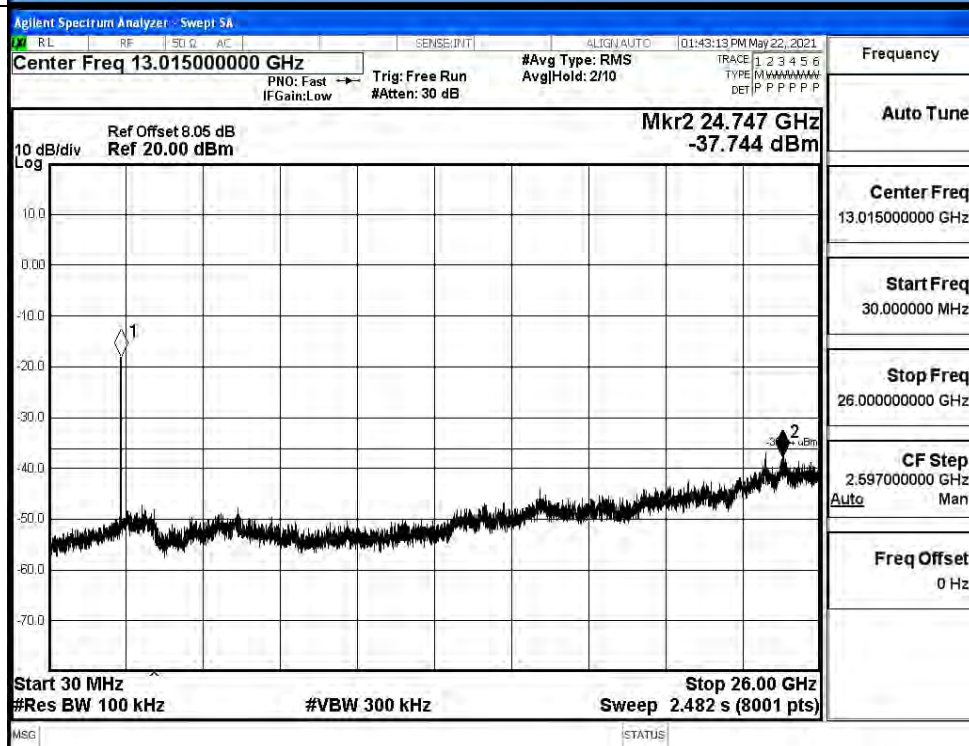
11N20SISO LCH Graphs

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

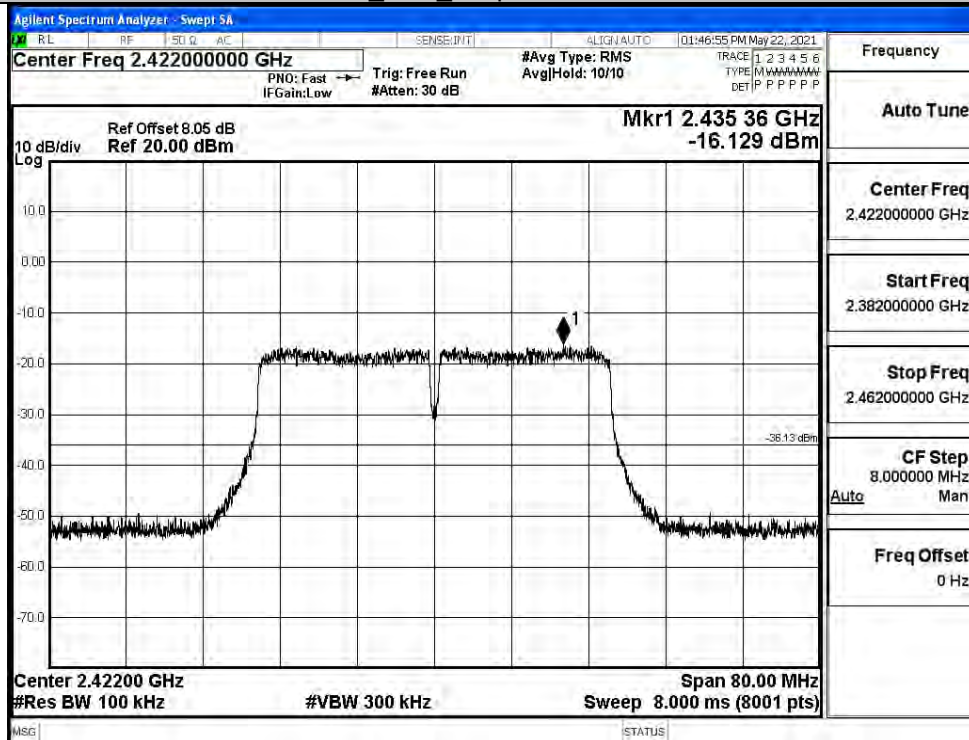
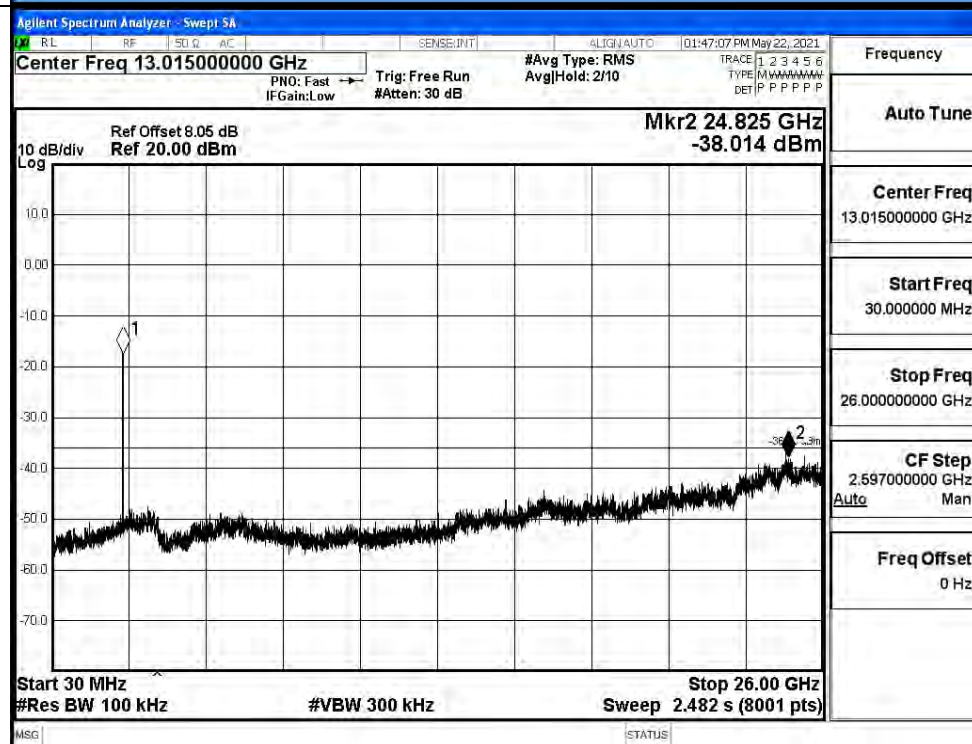
11N20SISO_MCH_Graphs

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

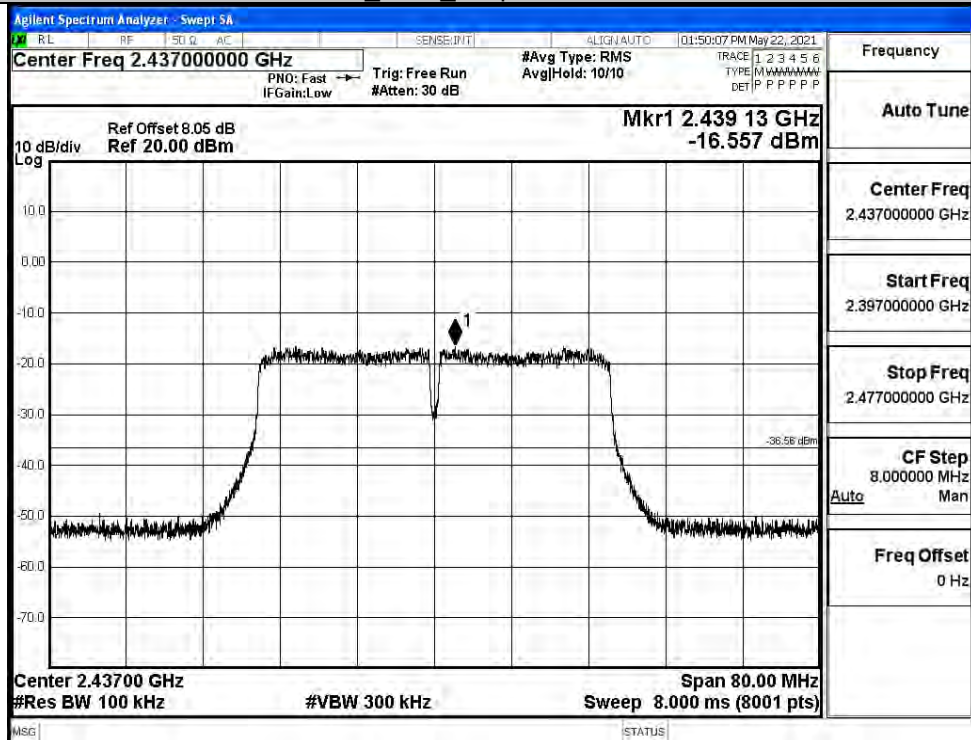
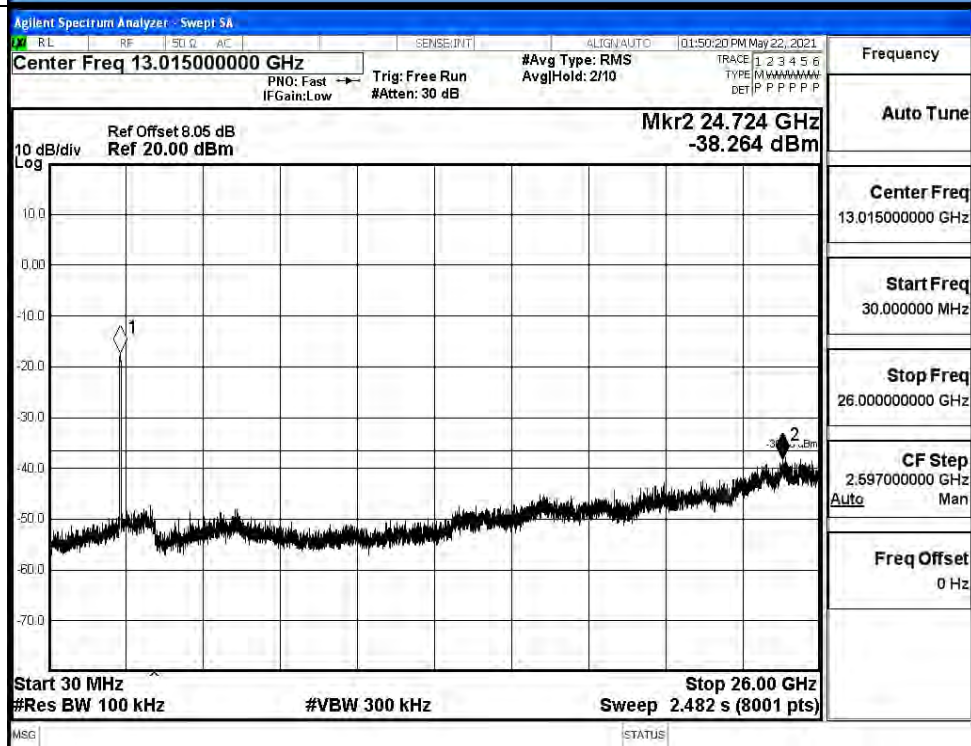
11N20SISO HCH Graphs

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

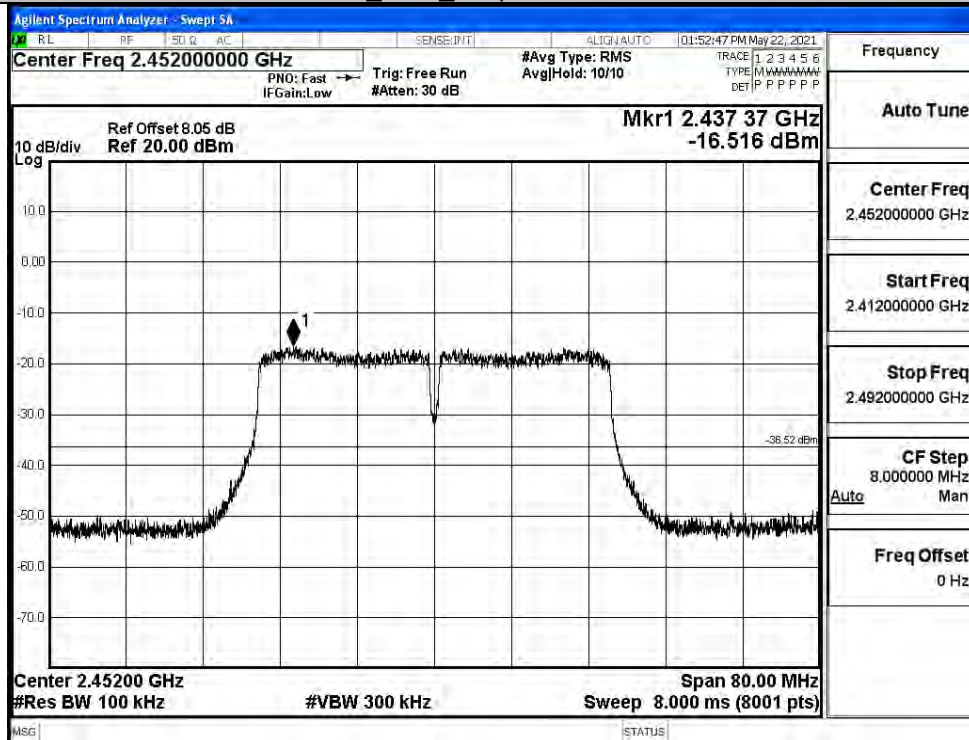
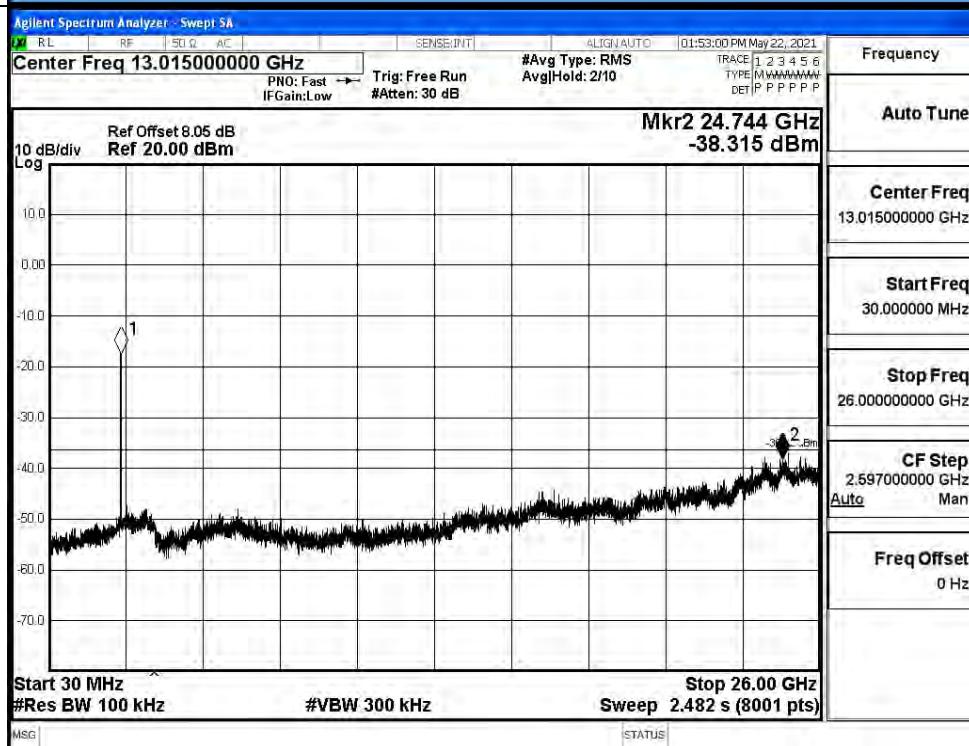
11N40SISO LCH Graphs

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

11N40SISO_MCH_Graphs

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

11N40SISO HCH Graphs

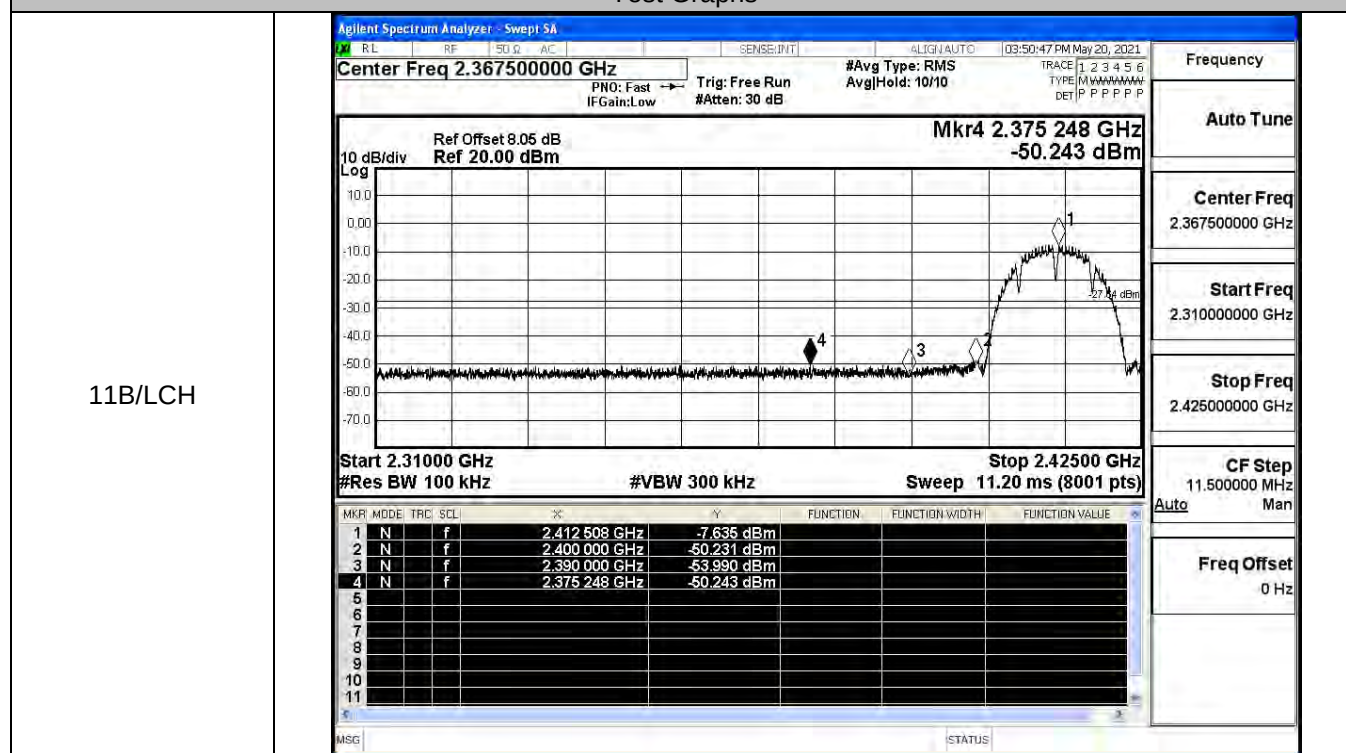
Pref/11N40
SISO/HCHPuw/11N40
SISO/HCH

C.6 Band-edge for RF Conducted Emissions

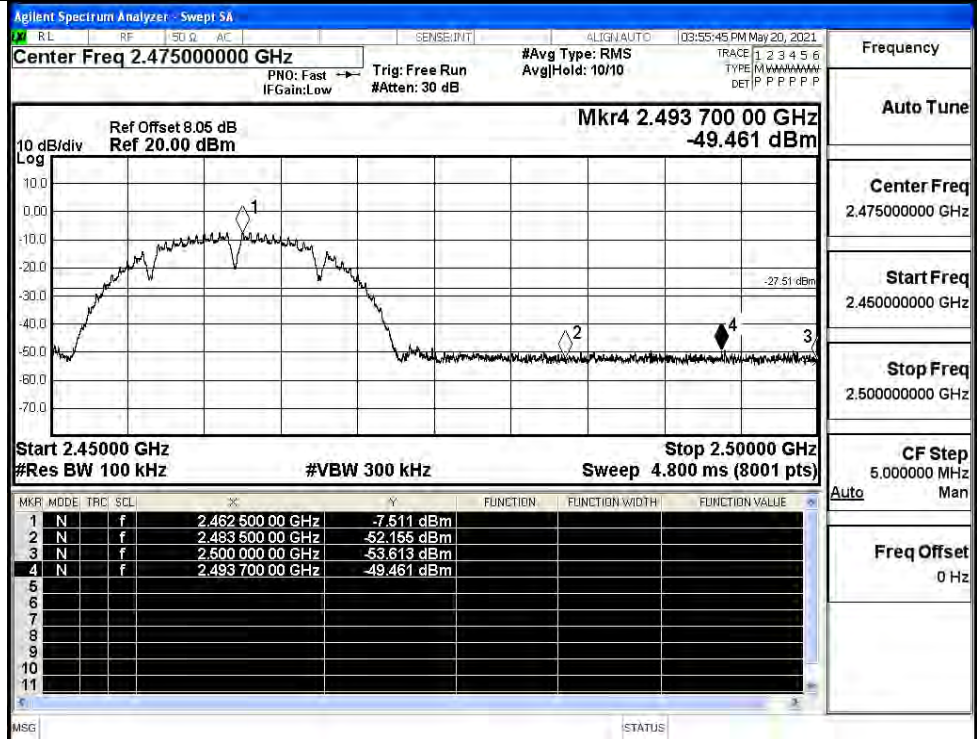
ANT0

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-7.635	-50.243	-27.64	PASS
	HCH	-7.511	-49.461	-27.51	PASS
11G	LCH	-16.119	-49.554	-36.12	PASS
	HCH	-15.951	-49.149	-35.95	PASS
11N20SISO	LCH	-16.254	-49.879	-36.25	PASS
	HCH	-16.158	-48.783	-36.16	PASS
11N40SISO	LCH	-19.539	-49.128	-39.54	PASS
	HCH	-19.647	-49.143	-39.65	PASS

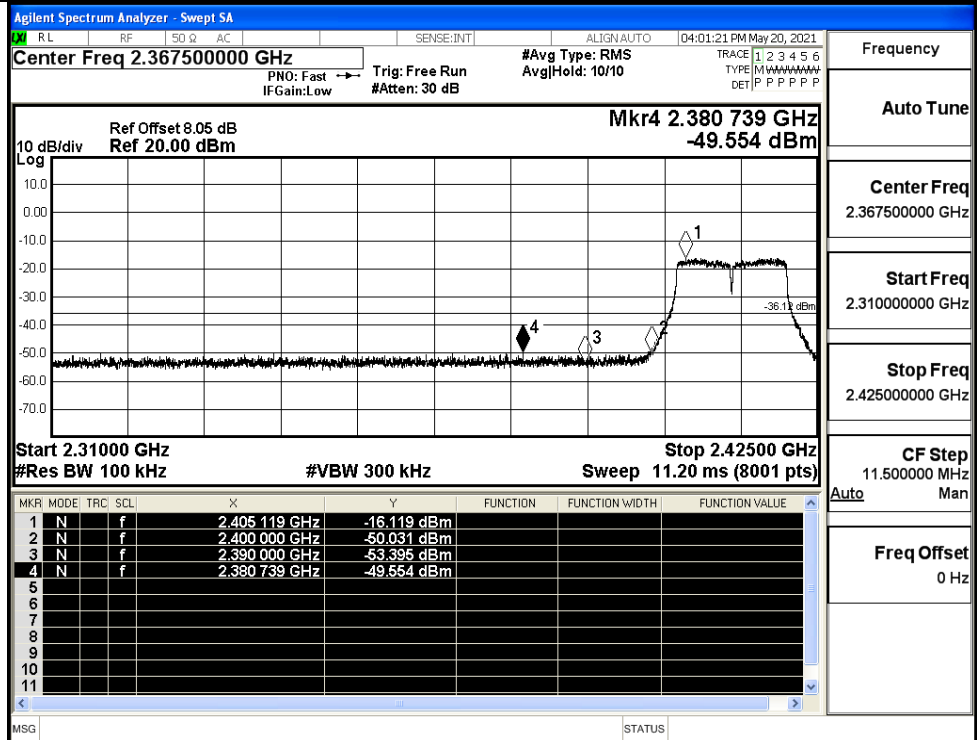
Test Graphs



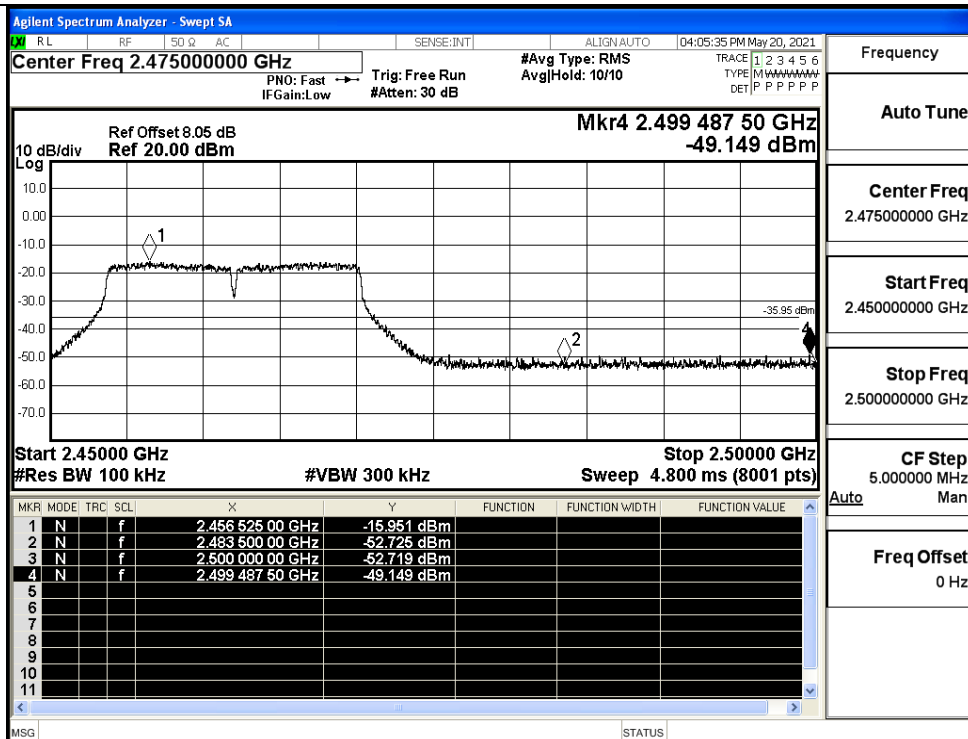
11B/HCH



11G/LCH



11G/HCH



Frequency

Auto Tune

Center Freq
2.475000000 GHz

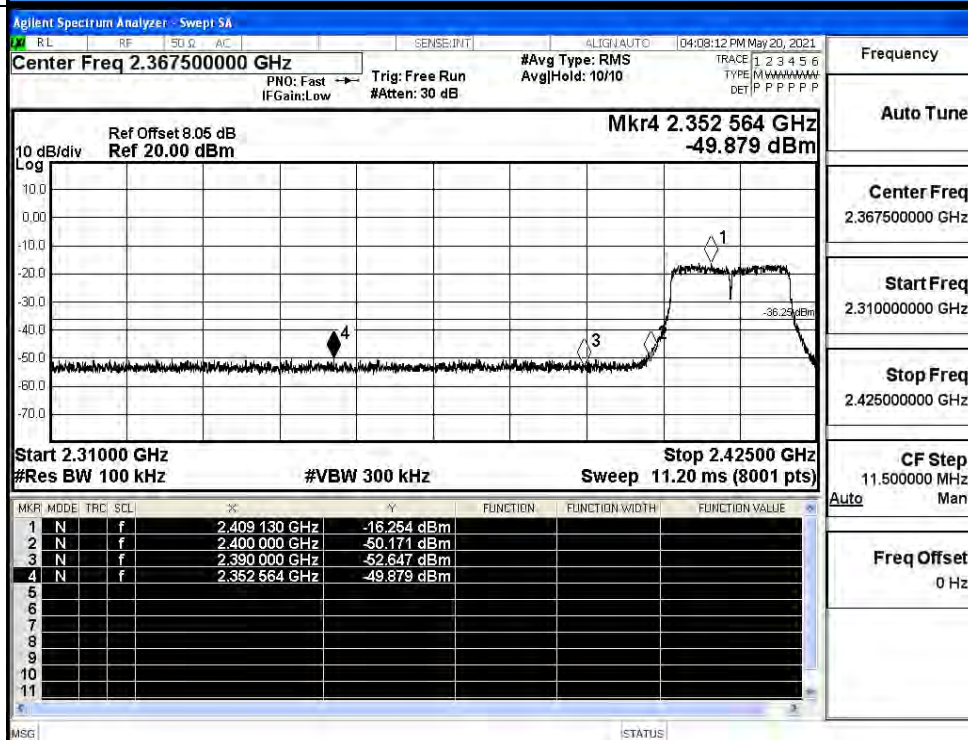
Start Freq
2.450000000 GHz

Stop Freq
2.500000000 GHz

CF Step
5.000000 MHz

Freq Offset
0 Hz

11N20SISO/LCH



Frequency

Auto Tune

Center Freq
2.367500000 GHz

Start Freq
2.310000000 GHz

Stop Freq
2.425000000 GHz

CF Step
11.500000 MHz

Freq Offset
0 Hz