

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Wi-Fi Adapter

Trade Mark: N/A

Test Model: AP0100

Environmental Conditions

Temperature:	23.8 °C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Wang.Chuang
Supervised by:	Tom.Liu

C.1 Duty Cycle

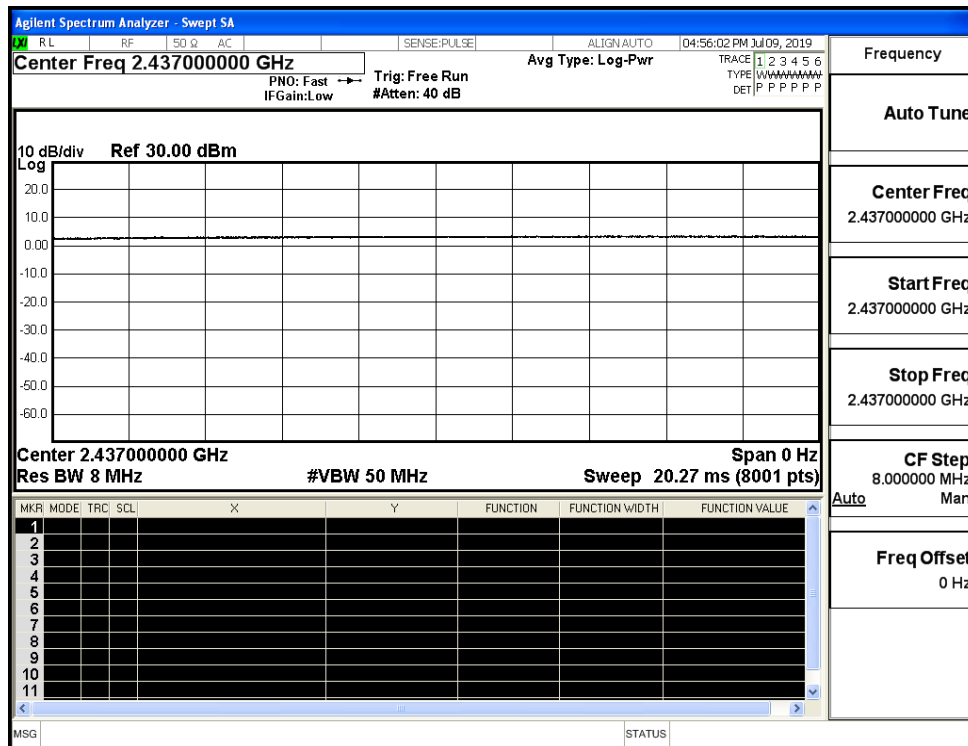
Antenna 0

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant0	100	PASS
11G	2437	Ant0	100	PASS
11N20SISO	2437	Ant0	100	PASS
11N40SISO	2437	Ant0	100	PASS

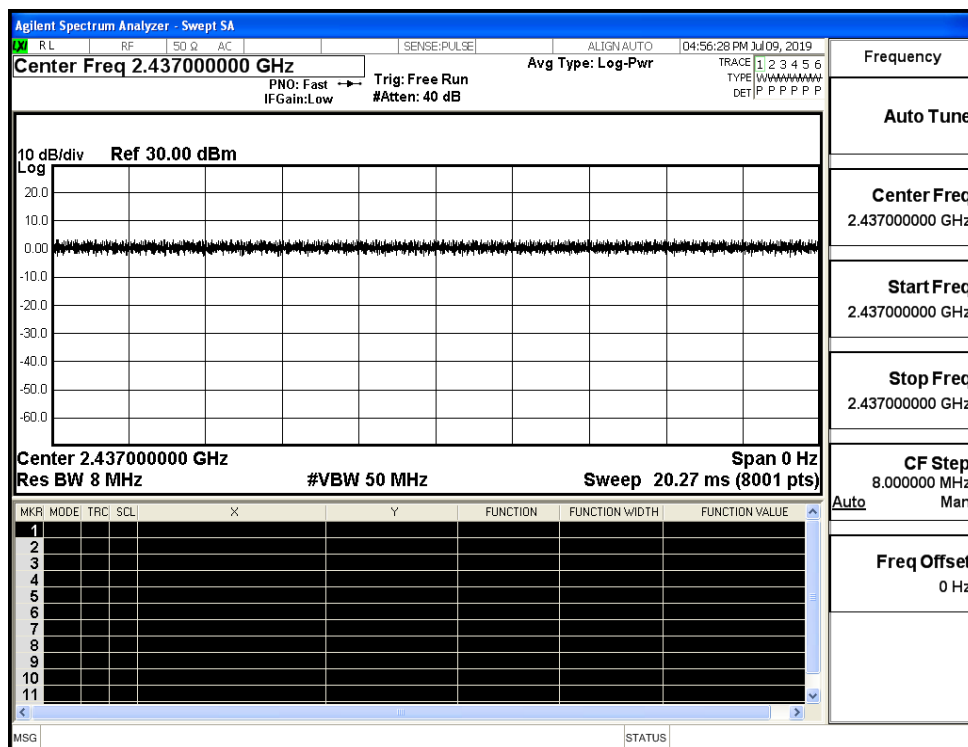
Antenna 1

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

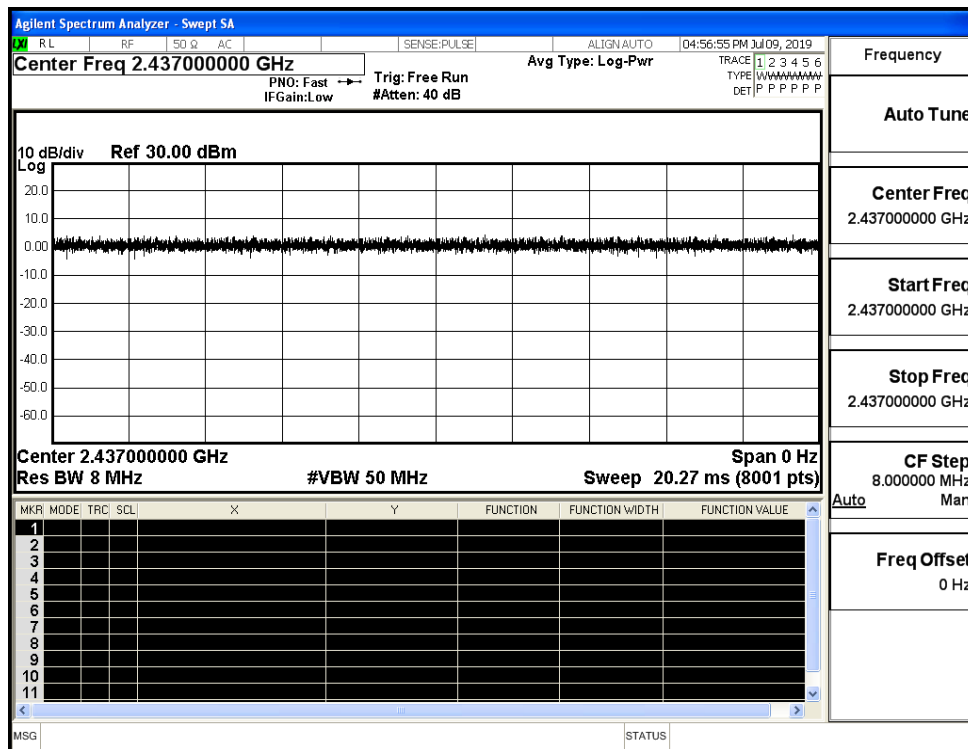
Duty Cycle_11B_2437_Ant0



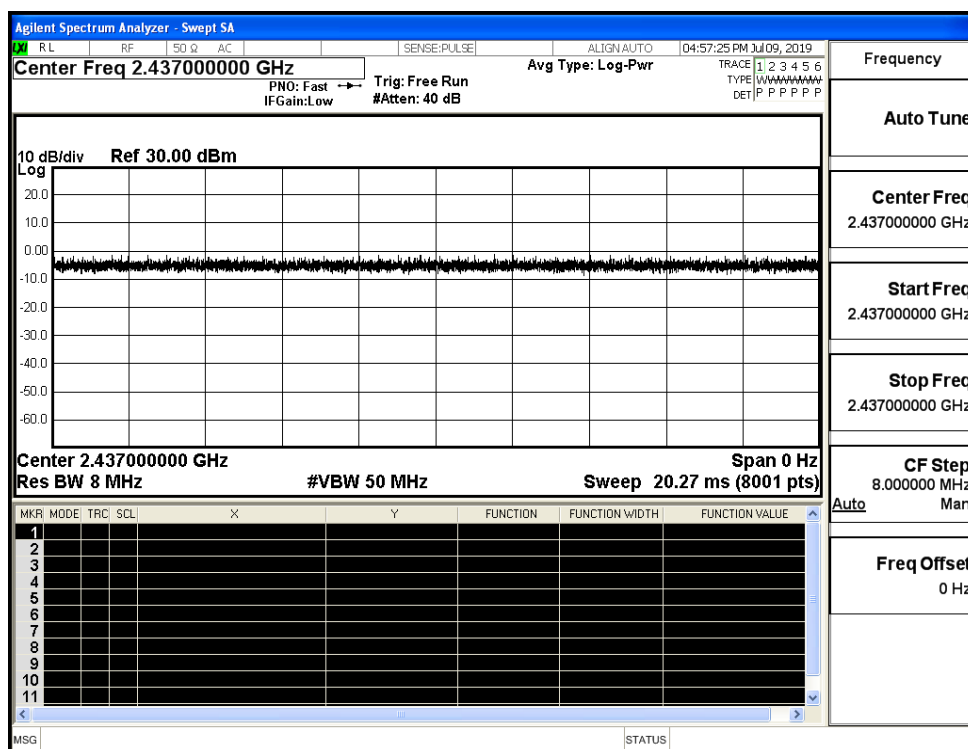
Duty Cycle_11G_2437_Ant0



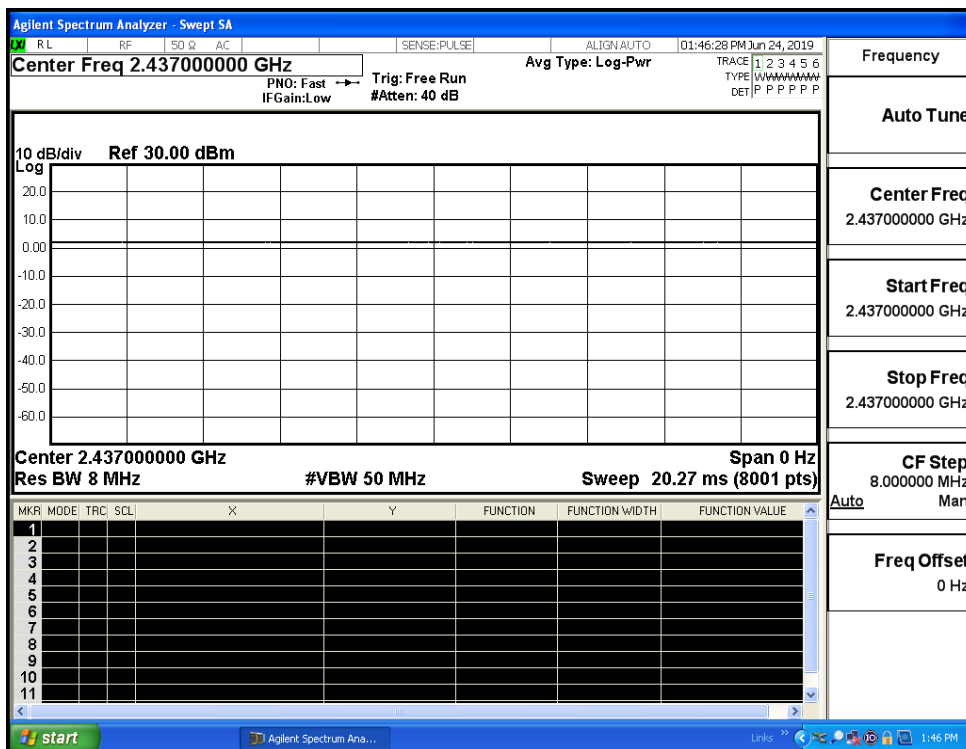
Duty Cycle_11N20SISO_2437_Ant0



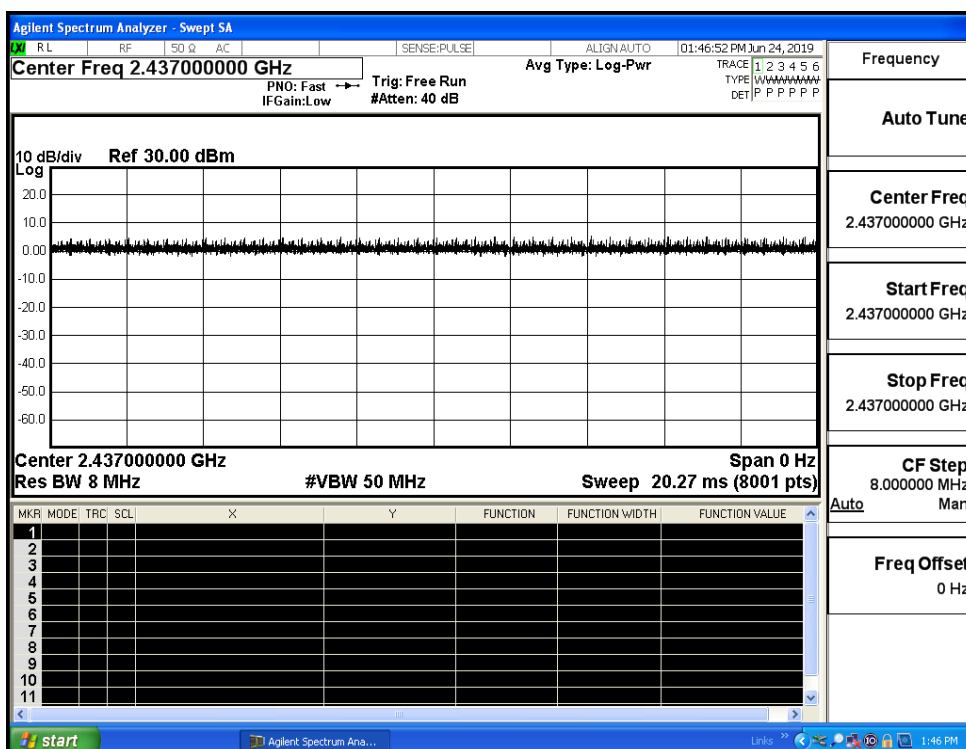
Duty Cycle_11N40SISO_2437_Ant0



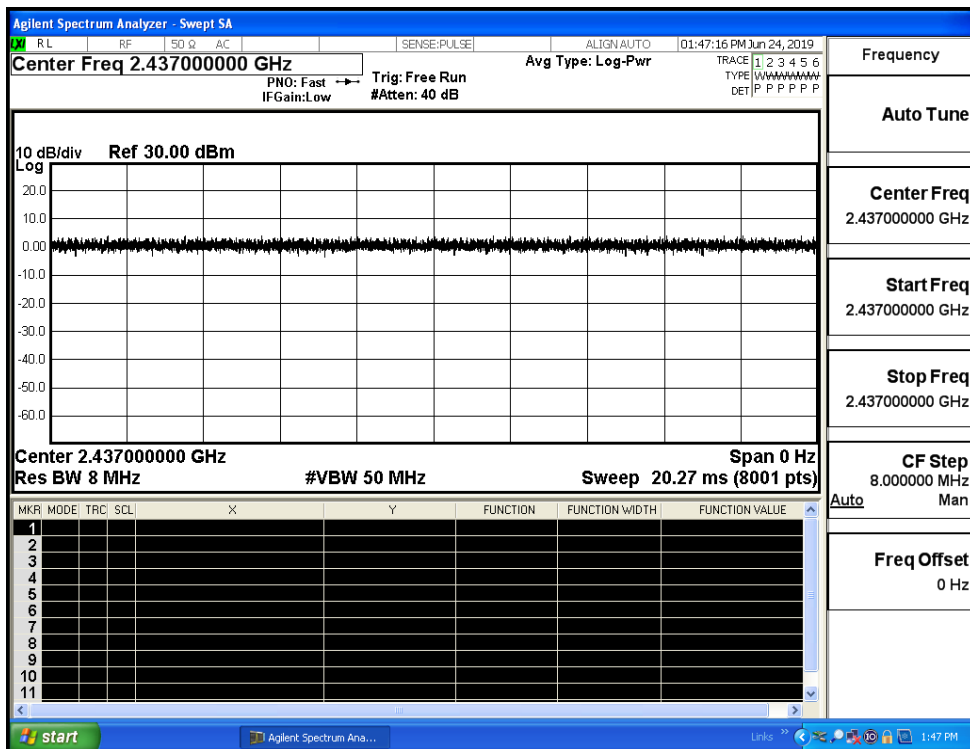
Duty Cycle_11B_2437_Ant1



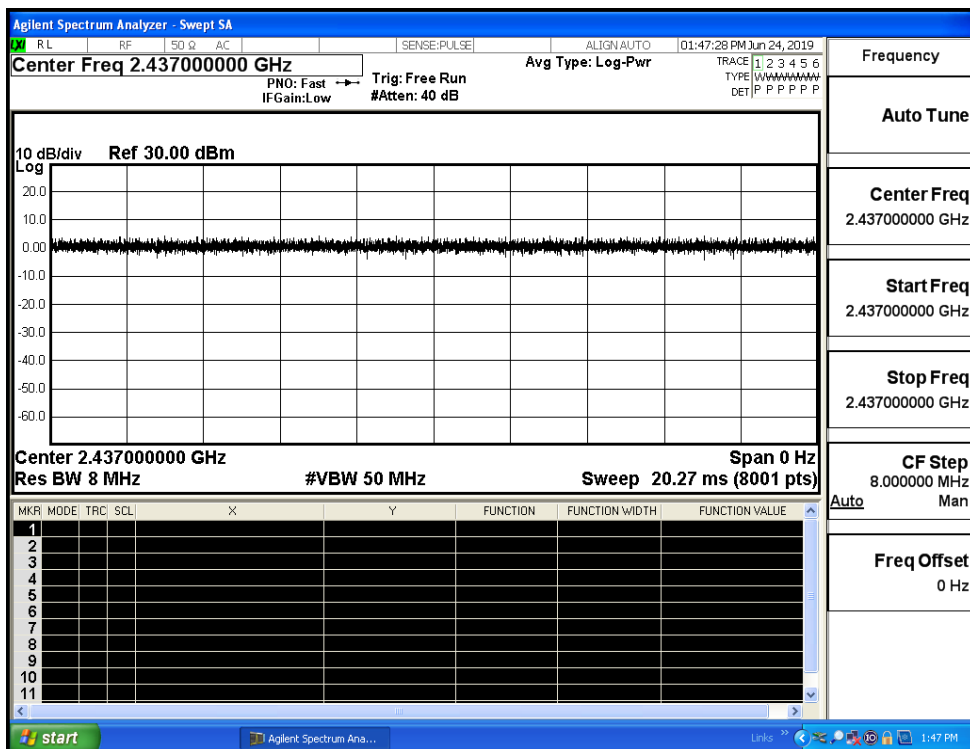
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1



C.2 Maximum Conducted Output Power

Antenna 0

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	17.76	30	PASS
	MCH	17.19	30	PASS
	HCH	17.69	30	PASS
11G	LCH	16.29	30	PASS
	MCH	16.96	30	PASS
	HCH	16.06	30	PASS
11N20SISO	LCH	15.63	30	PASS
	MCH	15.89	30	PASS
	HCH	15.36	30	PASS
11N40SISO	LCH	14.98	30	PASS
	MCH	14.51	30	PASS
	HCH	14.82	30	PASS

Antenna 1

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	17.29	30	PASS
	MCH	17.95	30	PASS
	HCH	17.02	30	PASS
11G	LCH	16.75	30	PASS
	MCH	16.88	30	PASS
	HCH	16.86	30	PASS
11N20SISO	LCH	15.18	30	PASS
	MCH	15.37	30	PASS
	HCH	15.26	30	PASS
11N40SISO	LCH	14.19	30	PASS
	MCH	14.17	30	PASS
	HCH	14.21	30	PASS

ANT0+ANT1:

Test Mode	Channel	Frequency (MHz)	Measured Peak Output Power (dBm)			Limits (dBm)	Verdict
			Chain 0	Chain 1	Sum		
IEEE 802.11n HT20	1	2412	15.63	15.18	18.42	30	PASS
	6	2437	15.89	15.37	18.65		
	11	2462	15.36	15.26	18.32		
IEEE 802.11n HT40	3	2422	14.98	14.19	17.61	30	PASS
	6	2437	14.51	14.17	17.35		
	9	2452	14.82	14.21	17.54		

C.3 Maximum Power Spectral Density

Antenna 0

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-8.964	8	PASS
	MCH	-8.769	8	PASS
	HCH	-10.219	8	PASS
11G	LCH	-12.492	8	PASS
	MCH	-11.343	8	PASS
	HCH	-11.846	8	PASS
11N20SISO	LCH	-12.384	8	PASS
	MCH	-10.981	8	PASS
	HCH	-10.826	8	PASS
11N40SISO	LCH	-13.279	8	PASS
	MCH	-12.970	8	PASS
	HCH	-13.129	8	PASS

Antenna 1

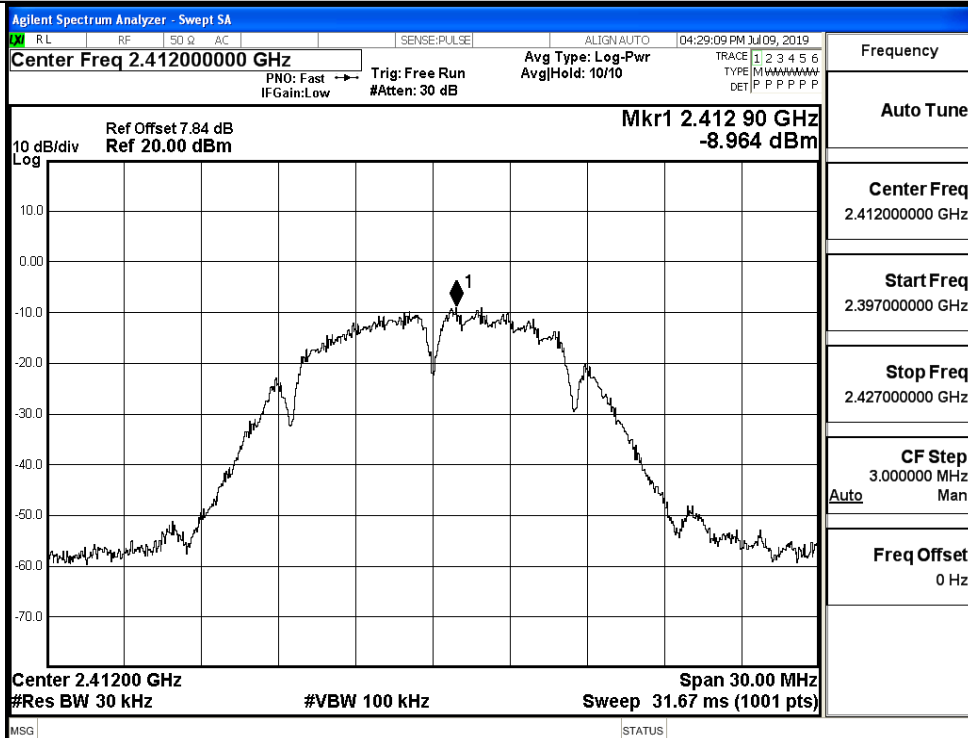
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-1.974	8	PASS
	MCH	-5.627	8	PASS
	HCH	-6.132	8	PASS
11G	LCH	-12.100	8	PASS
	MCH	-11.062	8	PASS
	HCH	-11.324	8	PASS
11N20SISO	LCH	-12.226	8	PASS
	MCH	-10.623	8	PASS
	HCH	-11.736	8	PASS
11N40SISO	LCH	-12.916	8	PASS
	MCH	-13.774	8	PASS
	HCH	-12.483	8	PASS

ANT0+ANT1:

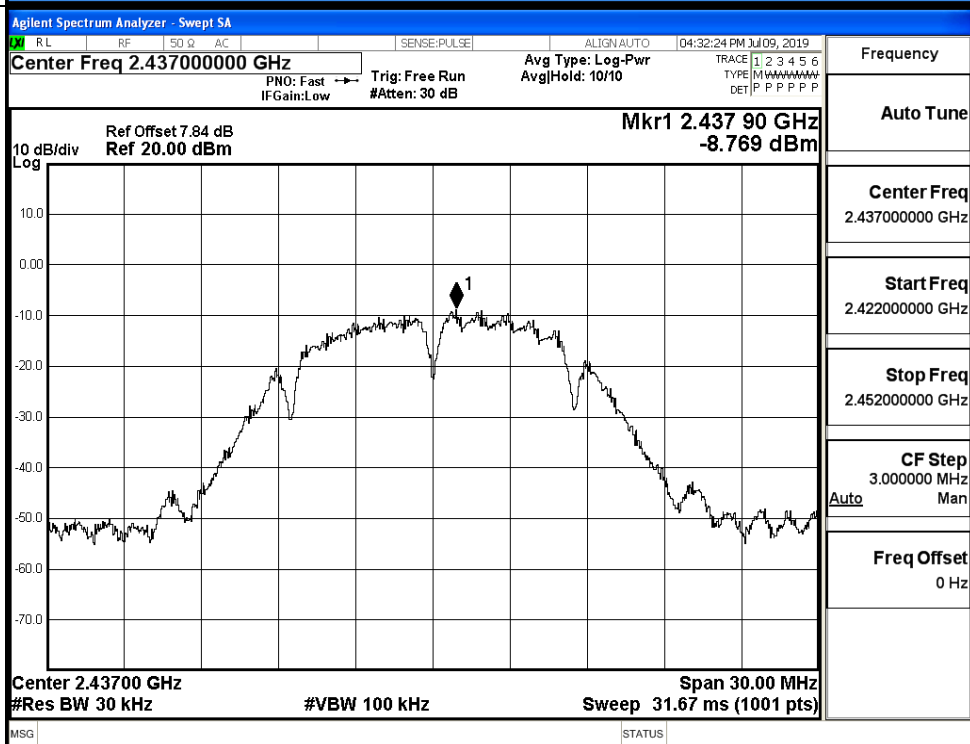
Test Mode	Channel	Frequency (MHz)	Meas.Level [dBm/30KHz]			Limit [dBm/3KHz]	Verdict
			Chain 0	Chain 1	Sum		
IEEE 802.11n HT20	1	2412	-12.384	-12.226	-9.294	8	PASS
	6	2437	-10.981	-10.623	-7.788		
	11	2462	-10.826	-11.736	-8.247		
IEEE 802.11n HT40	3	2422	-13.279	-12.916	-10.083	8	PASS
	6	2437	-12.970	-13.774	-10.343		
	9	2452	-13.129	-12.483	-9.784		

Test Graphs Ant 0

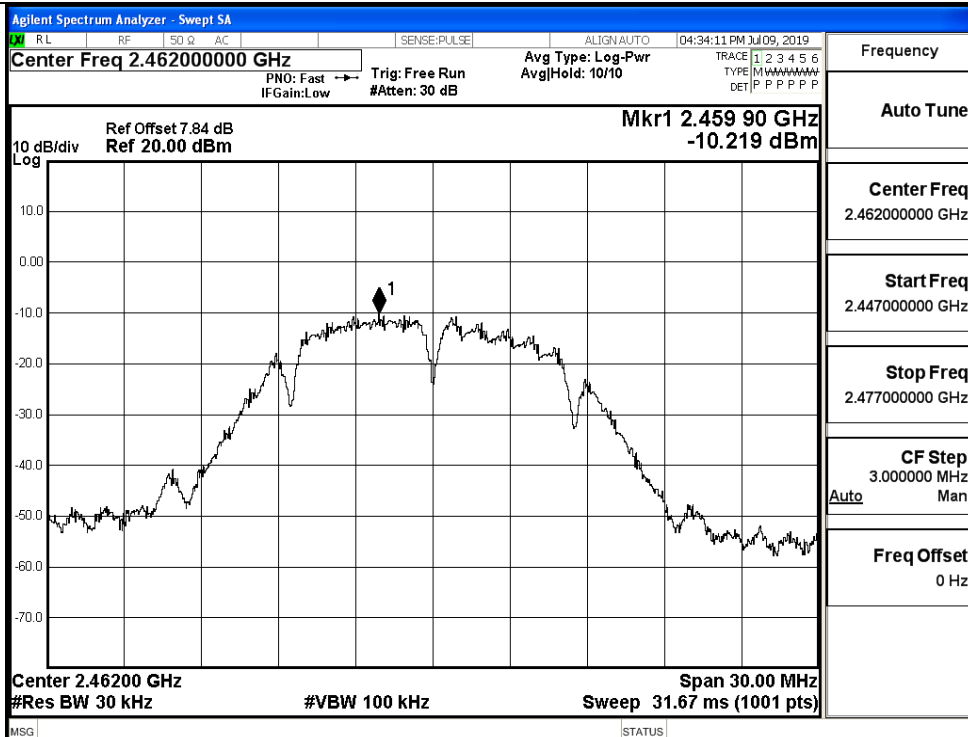
11B/LCH



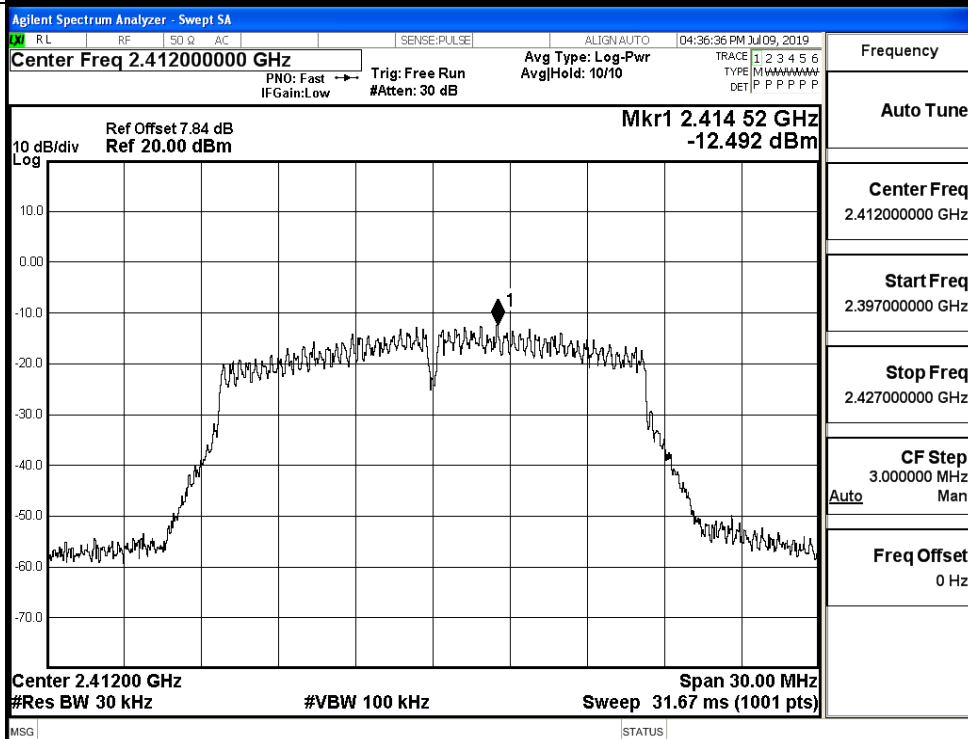
11B/MCH



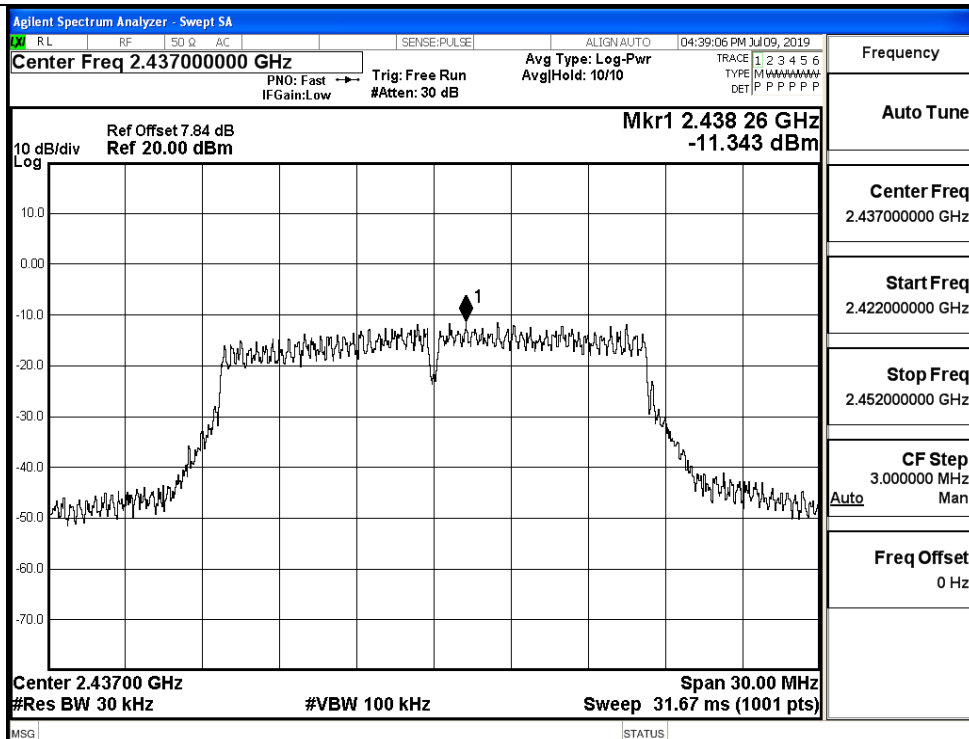
11B/HCH



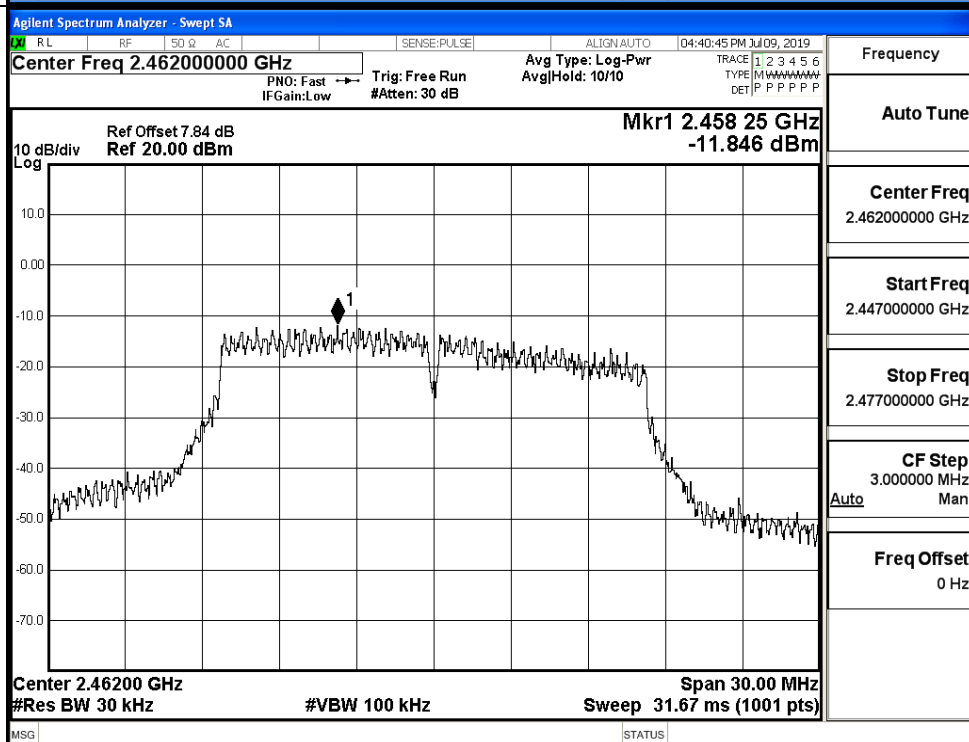
11G/LCH



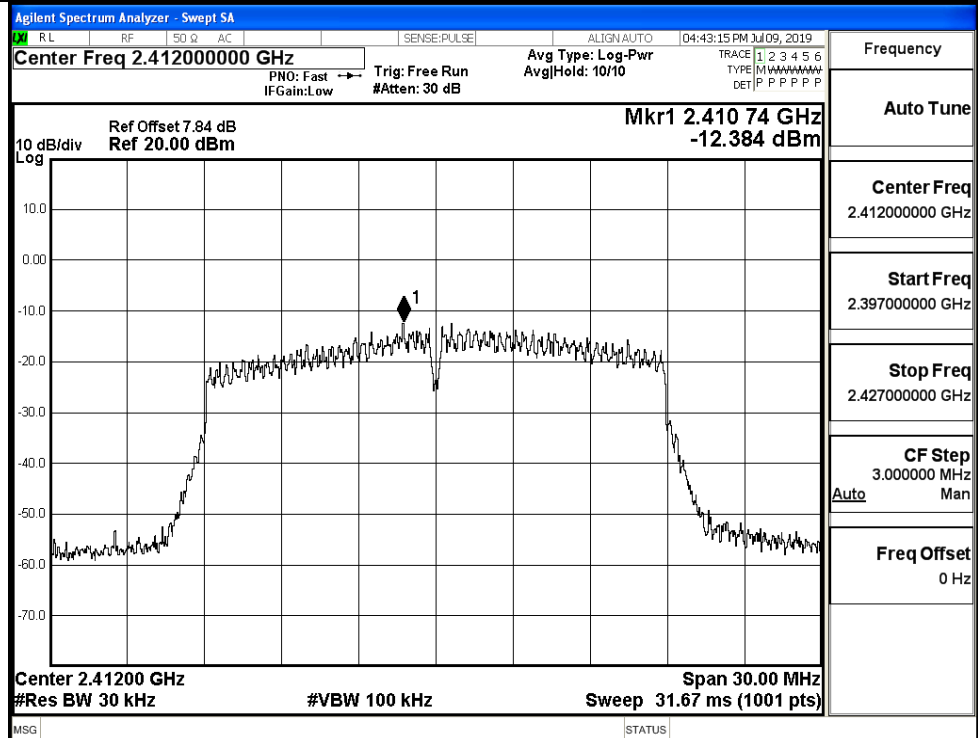
11G/MCH



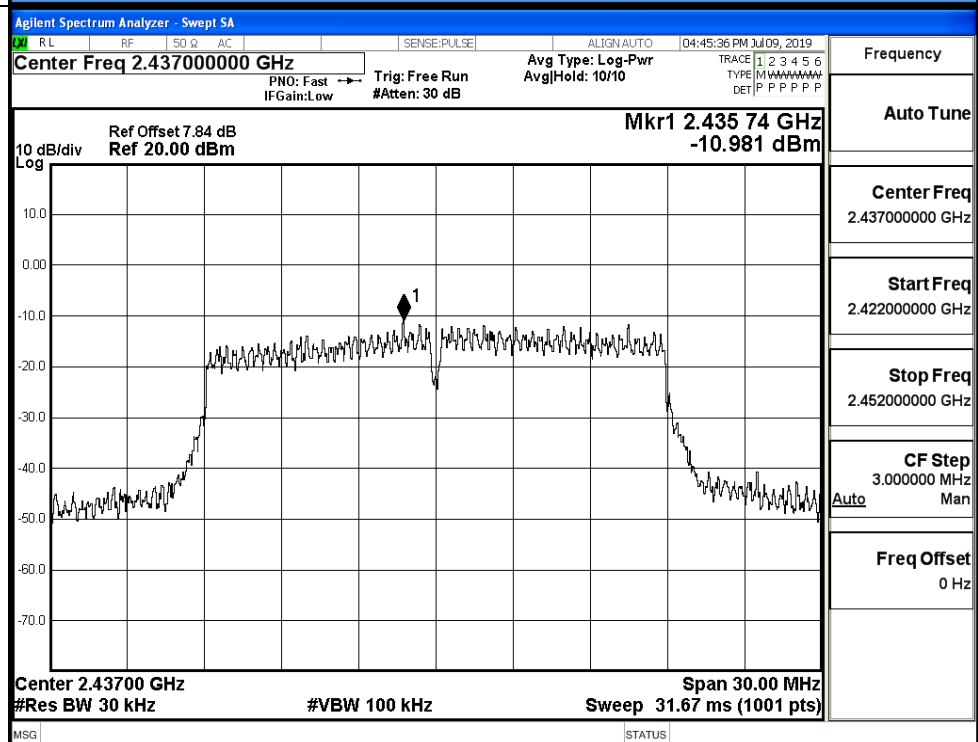
11G/HCH



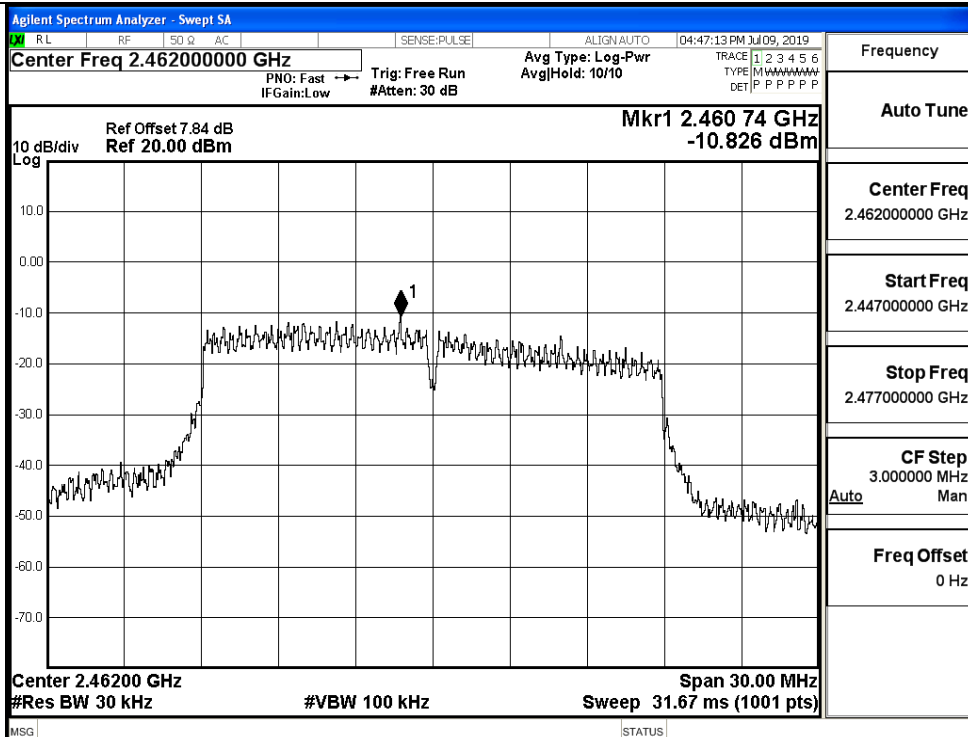
11N20SISO/LCH



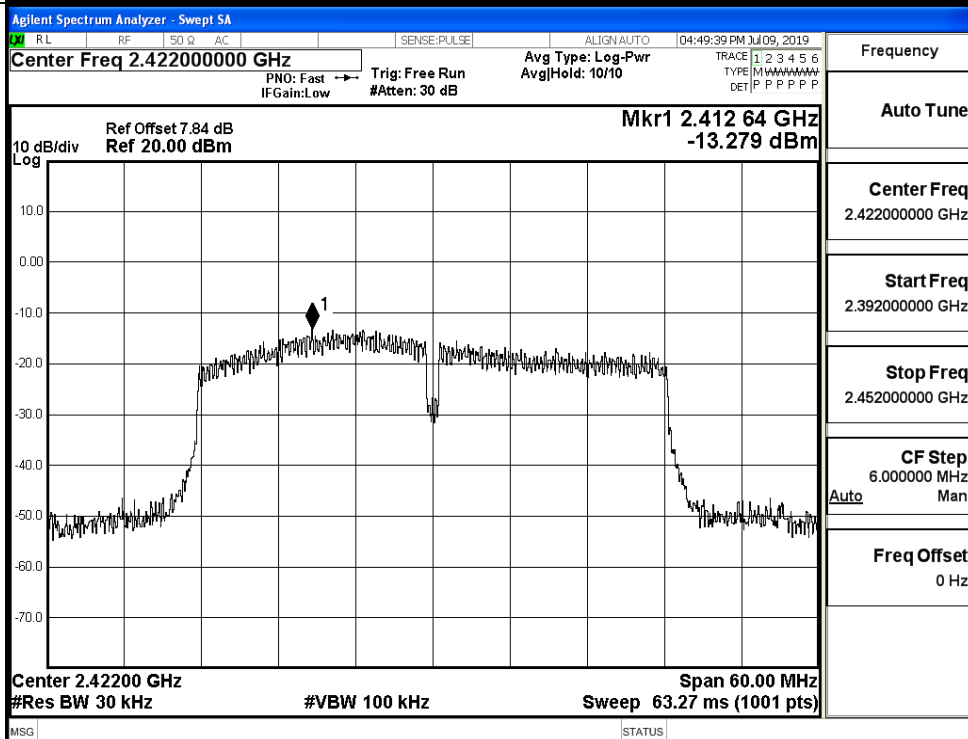
11N20SISO/MCH



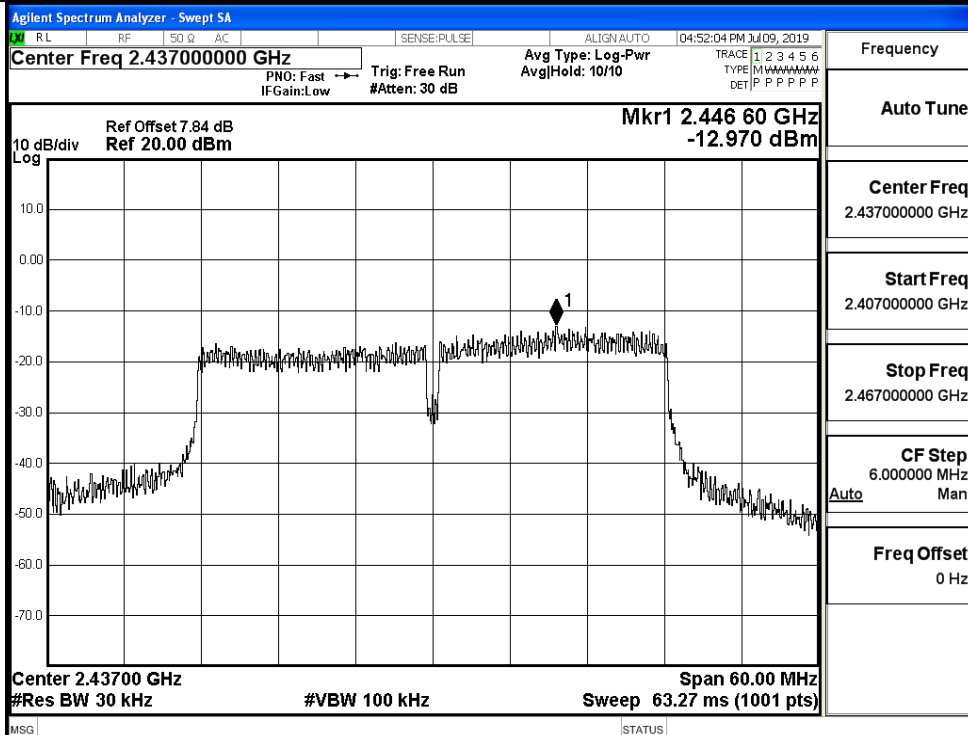
11N20SISO/HCH



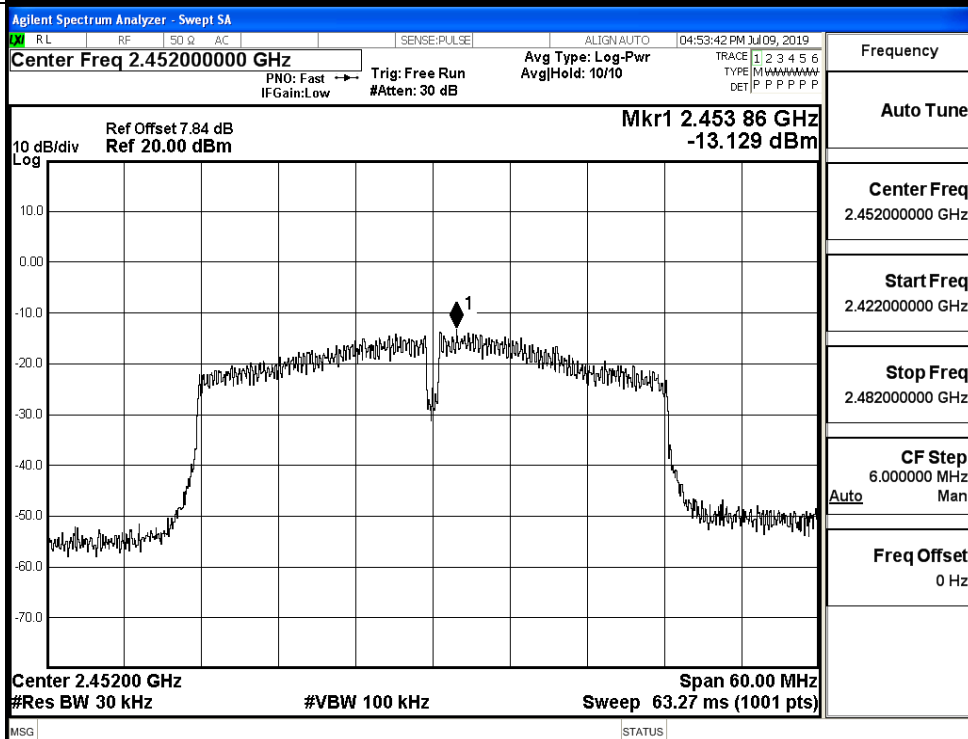
11N40SISO/LCH



11N40SISO/MCH

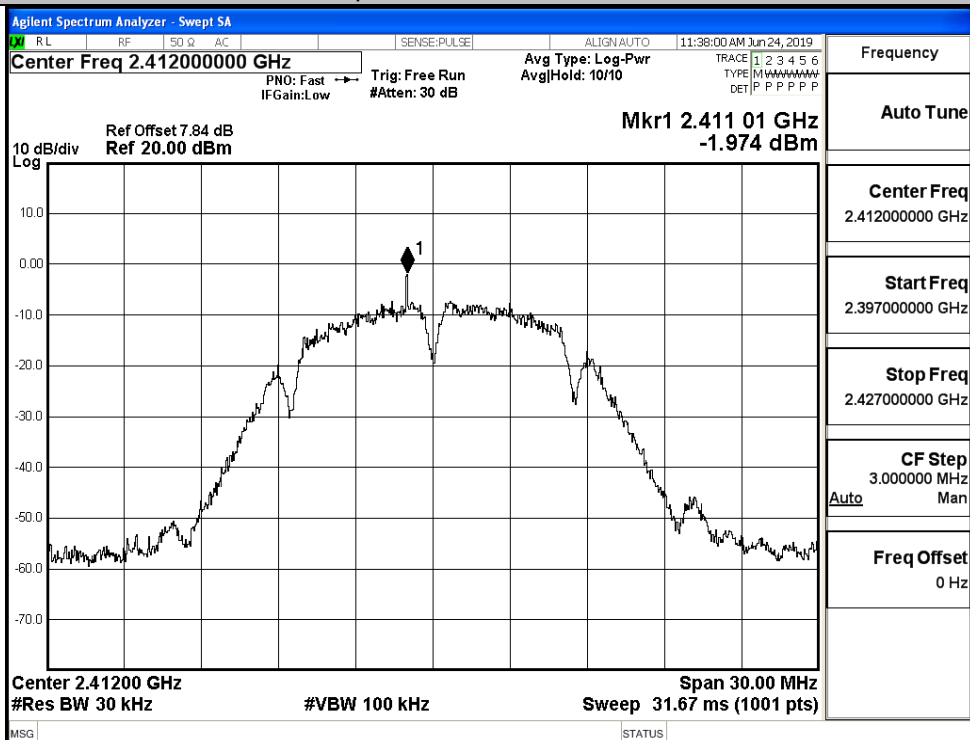


11N40SISO/HCH

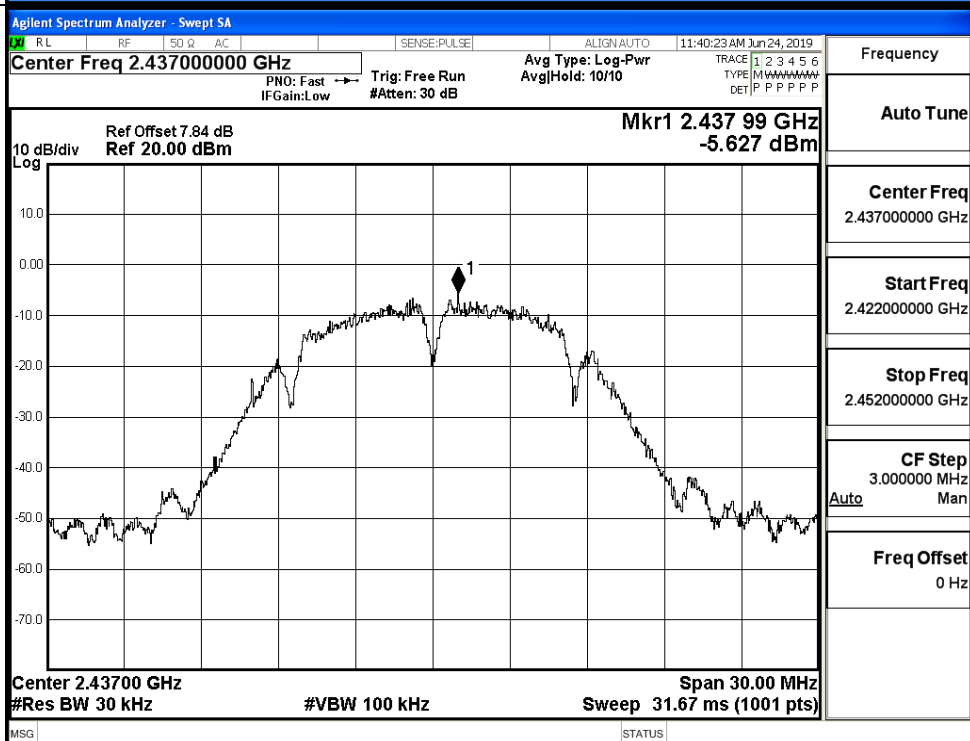


Test Graphs Ant 1

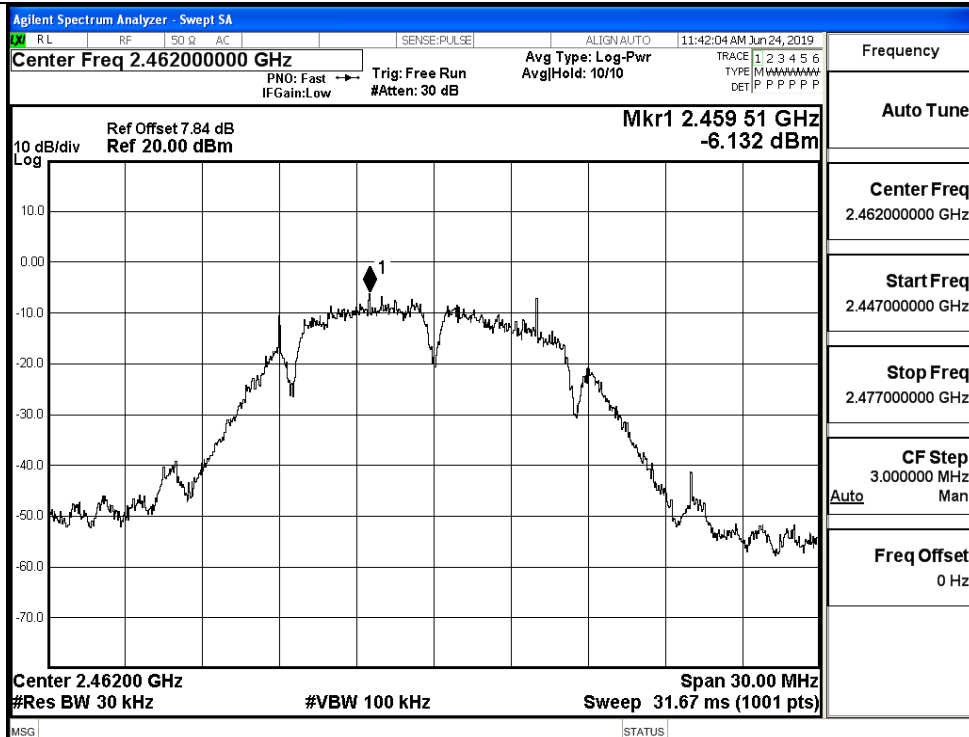
11B/LCH



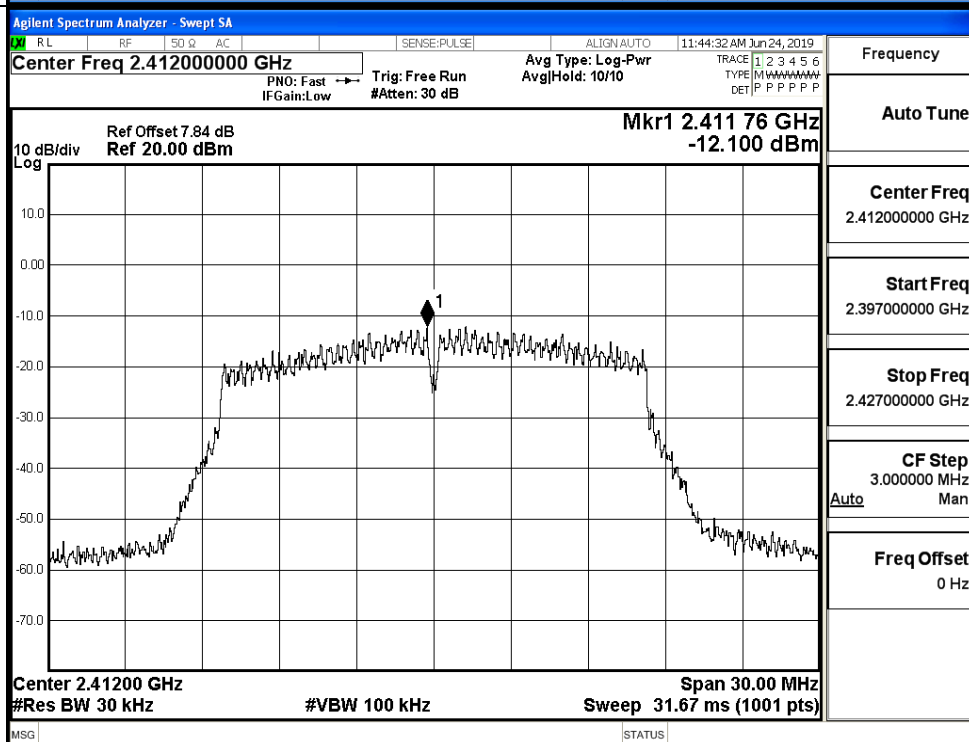
11B/MCH



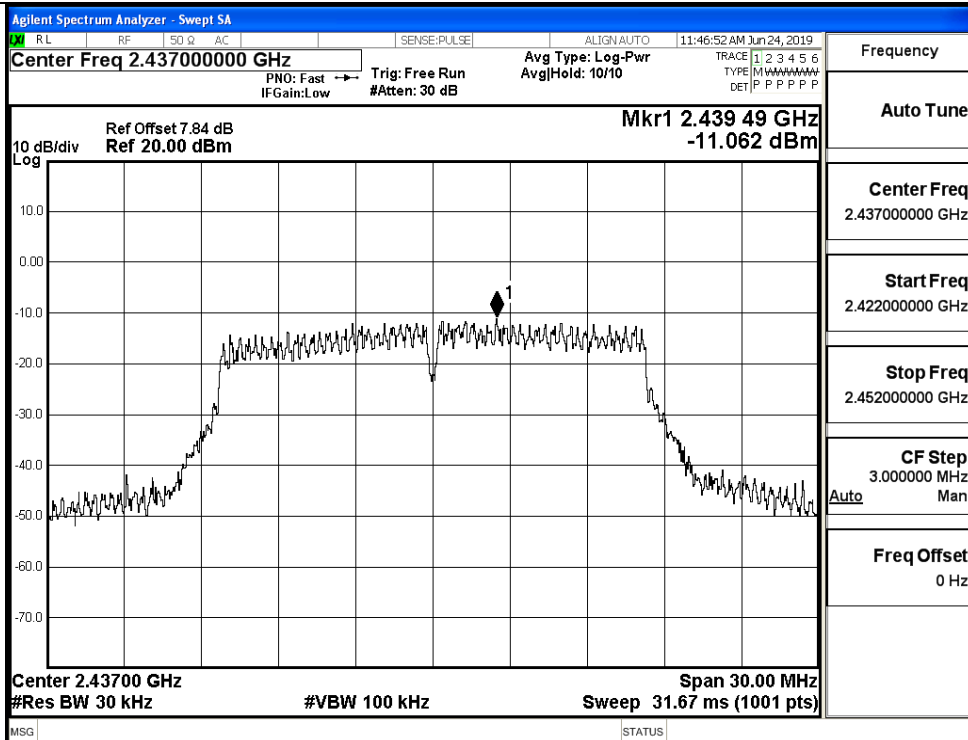
11B/HCH



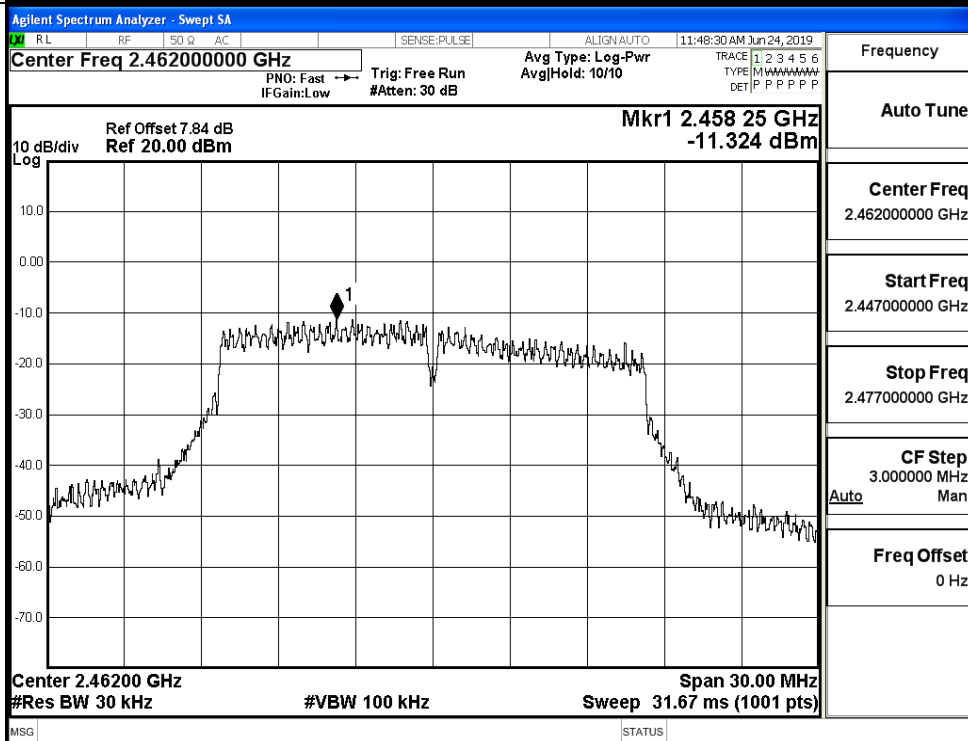
11G/LCH



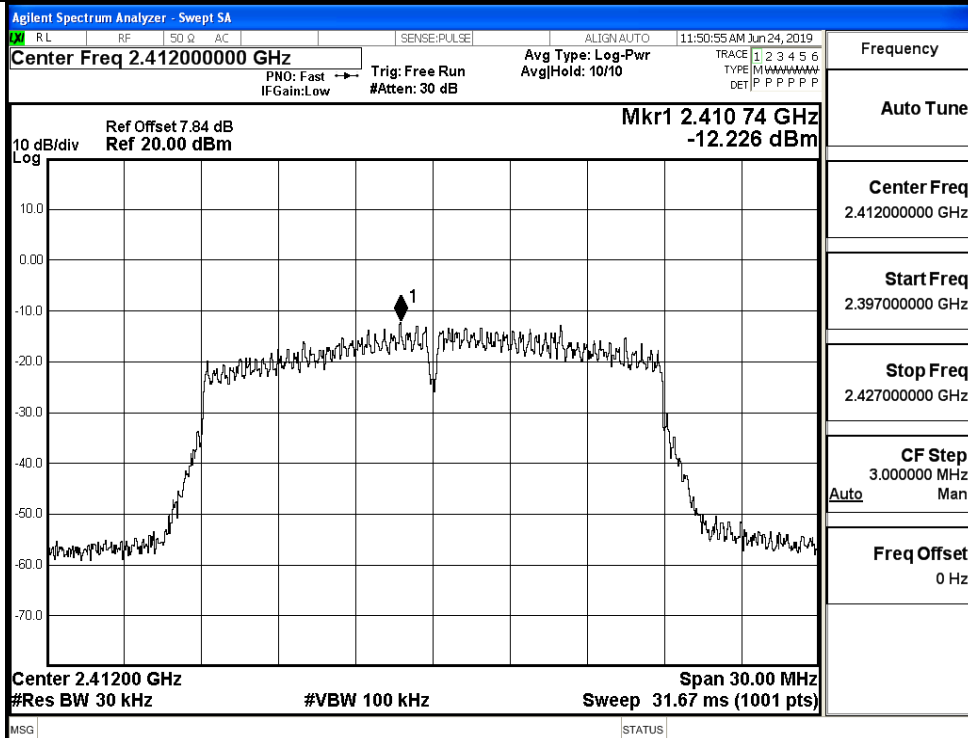
11G/MCH



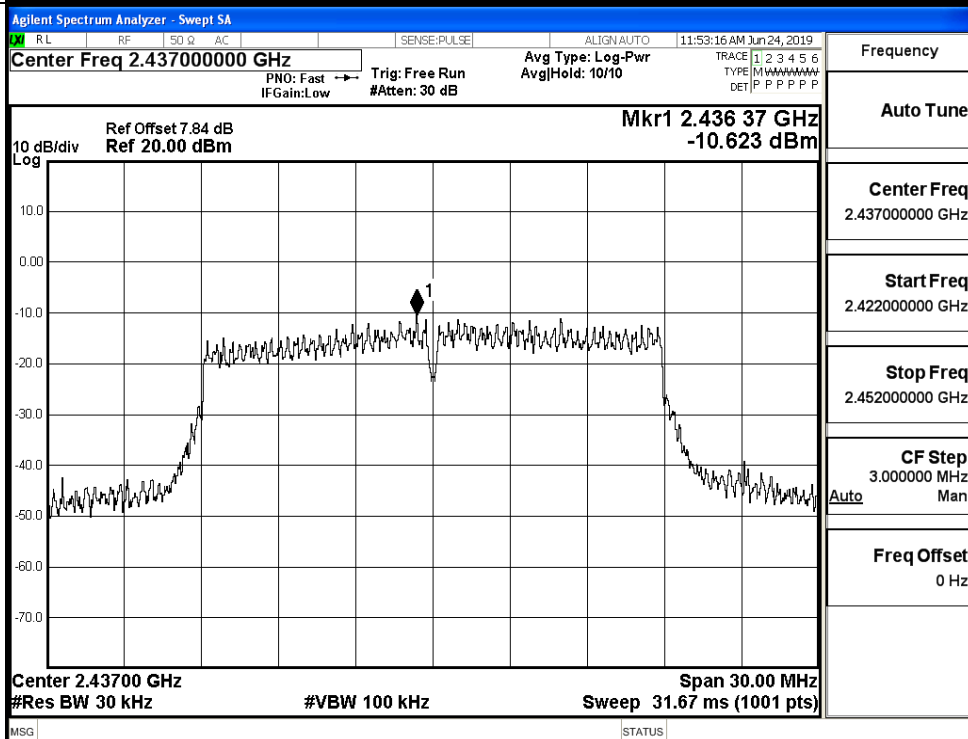
11G/HCH



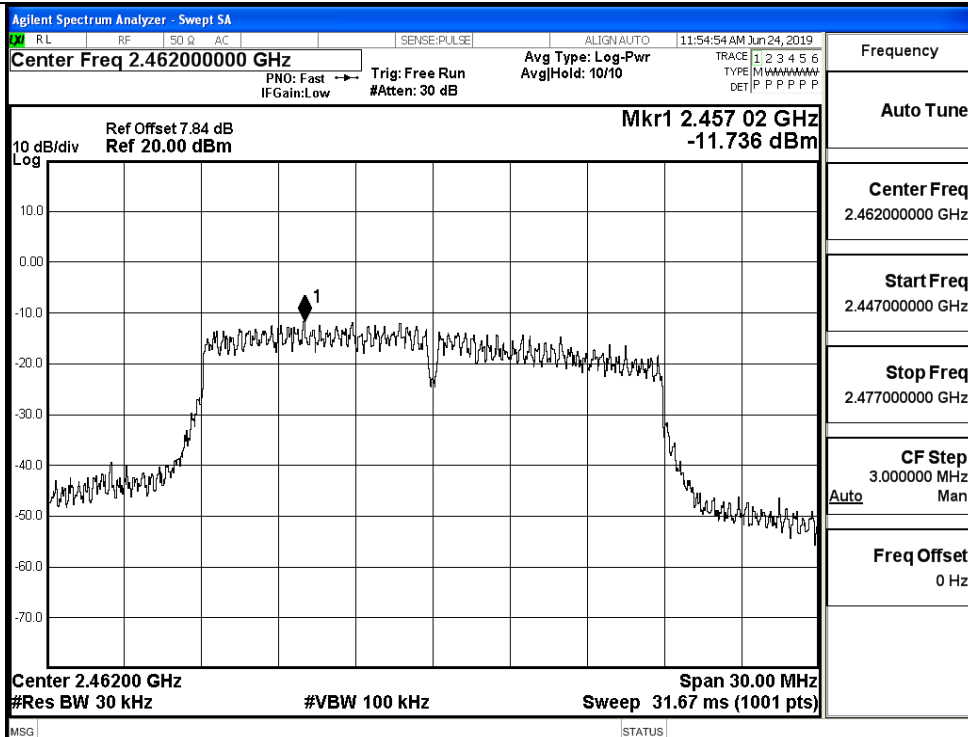
11N20SISO/LCH



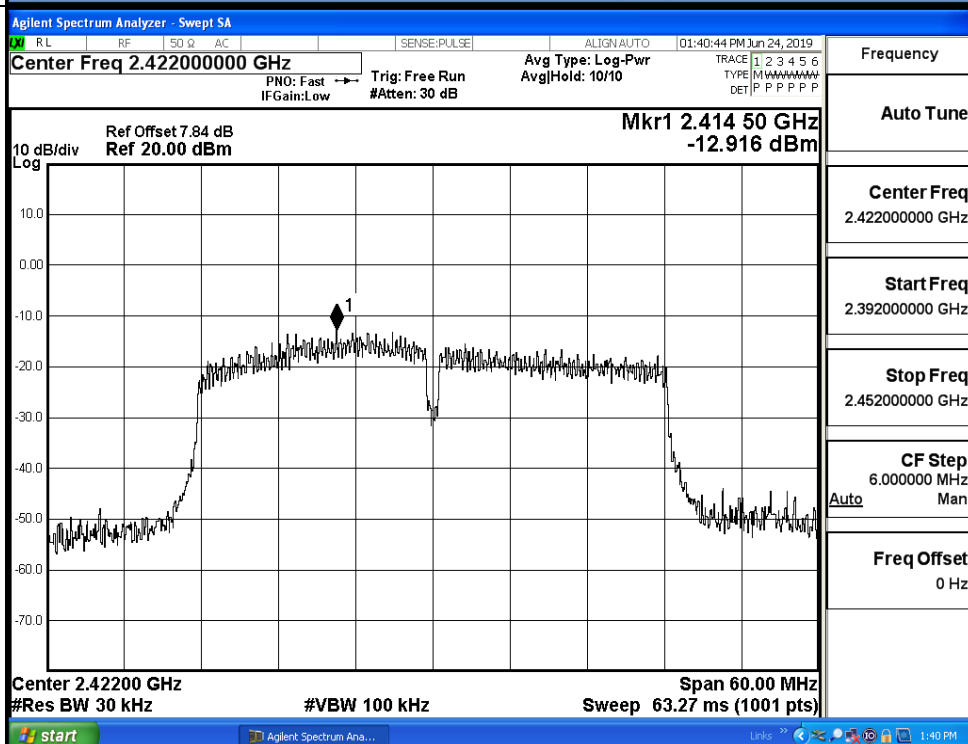
11N20SISO/MCH



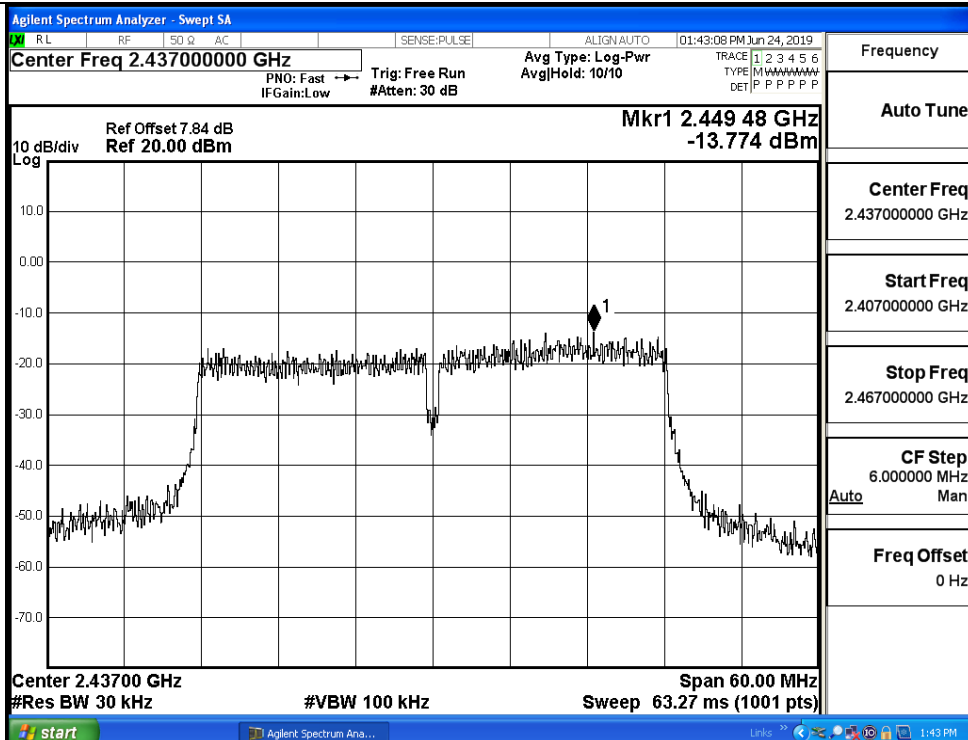
11N20SISO/HCH



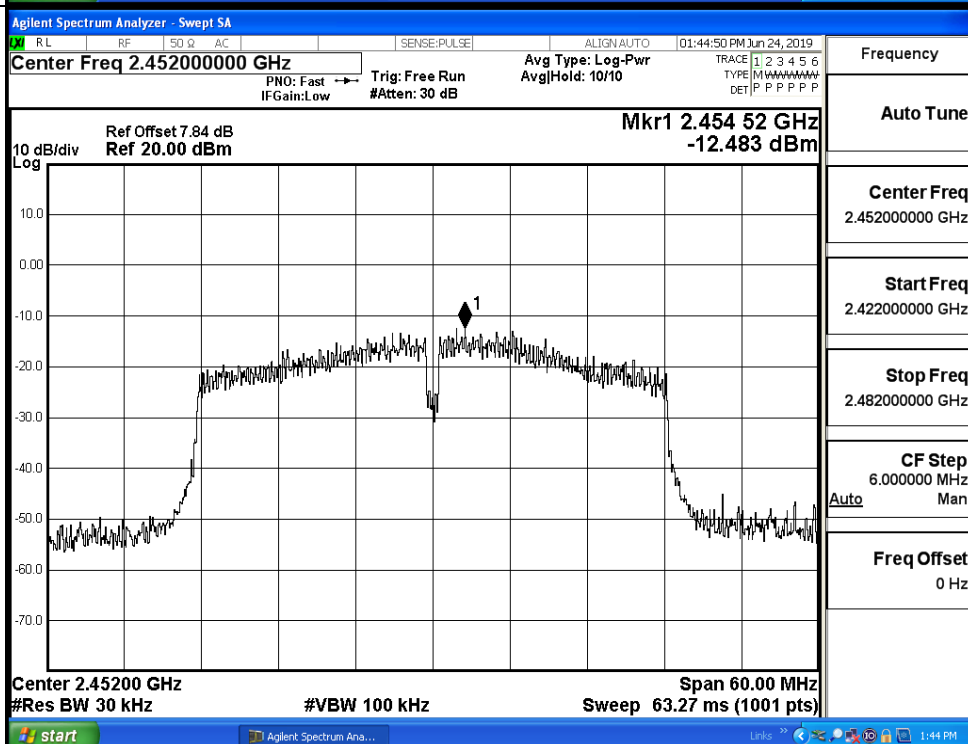
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH



C.4 6dB Bandwidth

Antenna 0

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	8.555	≥ 0.5	PASS
	MCH	9.504	≥ 0.5	PASS
	HCH	8.634	≥ 0.5	PASS
11G	LCH	13.87	≥ 0.5	PASS
	MCH	15.75	≥ 0.5	PASS
	HCH	15.71	≥ 0.5	PASS
11N20SISO	LCH	13.86	≥ 0.5	PASS
	MCH	16.29	≥ 0.5	PASS
	HCH	16.30	≥ 0.5	PASS
11N40SISO	LCH	34.18	≥ 0.5	PASS
	MCH	36.44	≥ 0.5	PASS
	HCH	24.71	≥ 0.5	PASS

Antenna 1

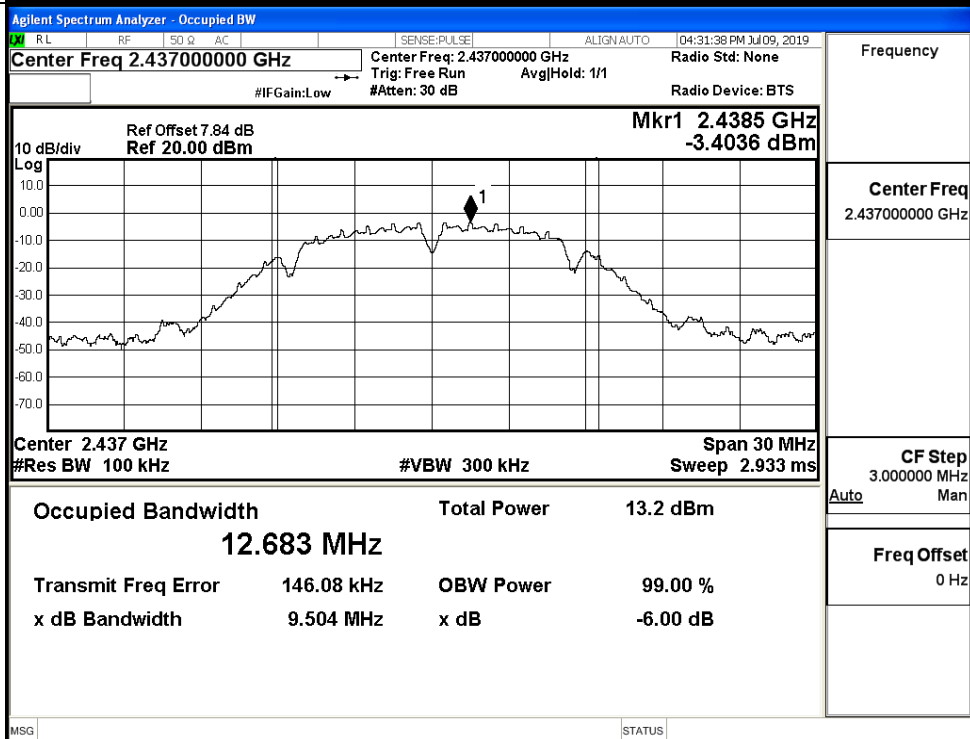
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.035	≥ 0.5	PASS
	MCH	9.584	≥ 0.5	PASS
	HCH	8.629	≥ 0.5	PASS
11G	LCH	13.88	≥ 0.5	PASS
	MCH	15.71	≥ 0.5	PASS
	HCH	15.72	≥ 0.5	PASS
11N20SISO	LCH	13.82	≥ 0.5	PASS
	MCH	16.34	≥ 0.5	PASS
	HCH	16.34	≥ 0.5	PASS
11N40SISO	LCH	33.89	≥ 0.5	PASS
	MCH	35.53	≥ 0.5	PASS
	HCH	24.71	≥ 0.5	PASS

Test Graphs Ant 0

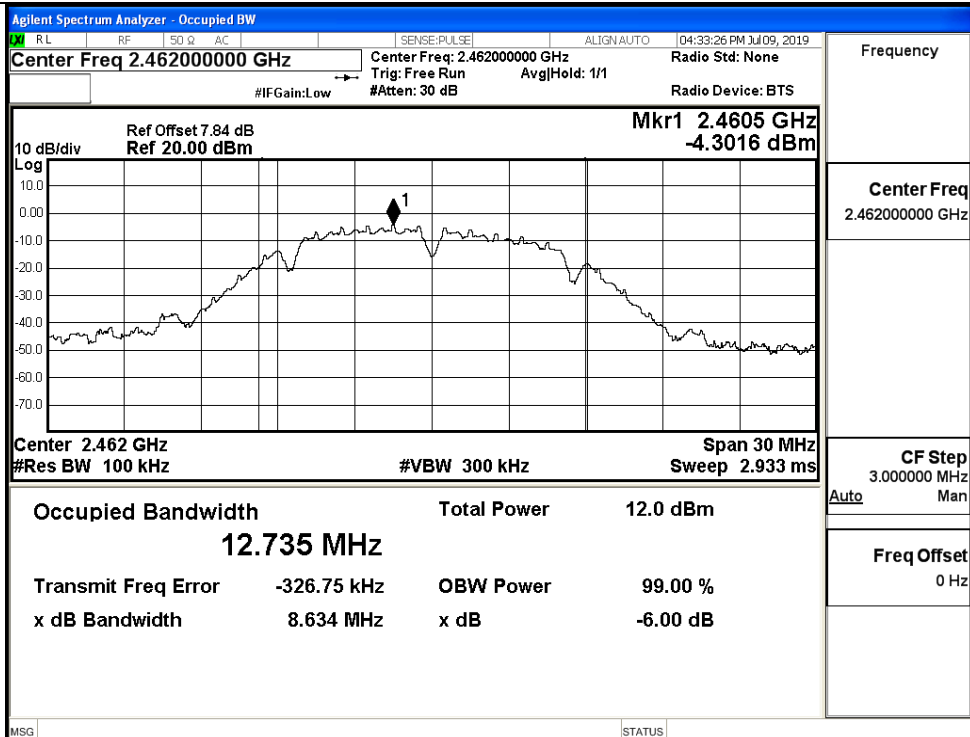
11B/LCH



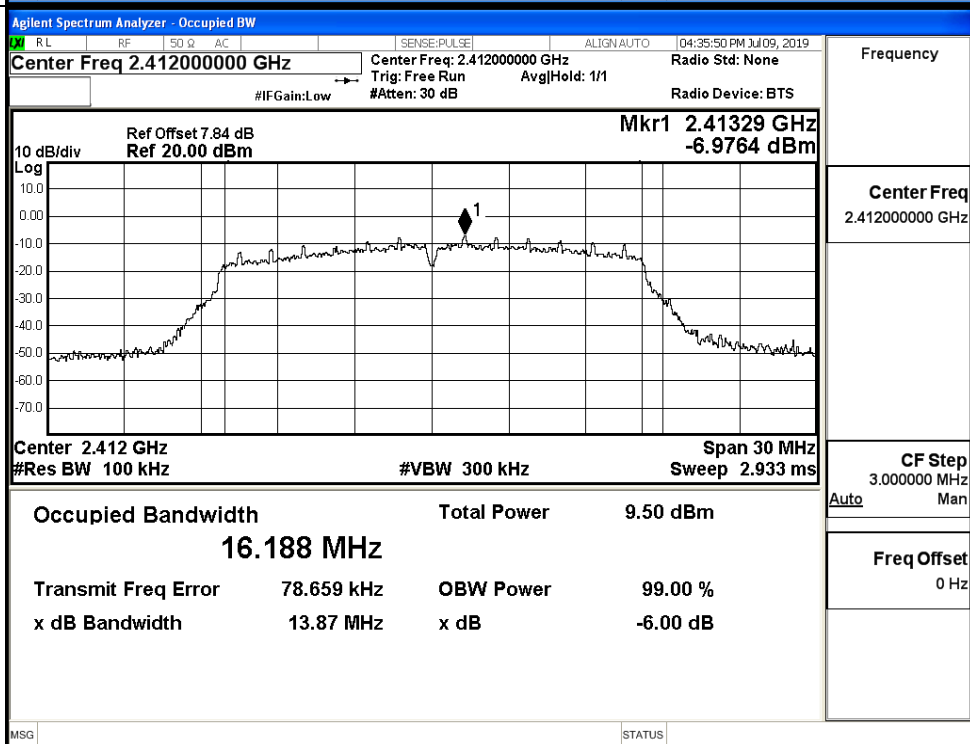
11B/MCH



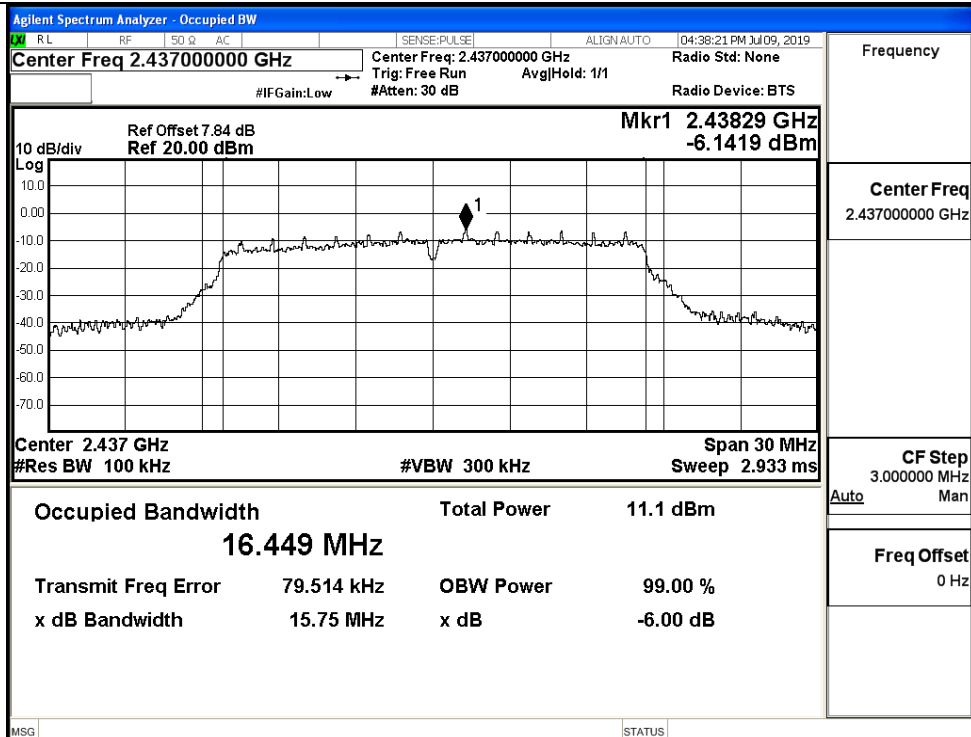
11B/HCH



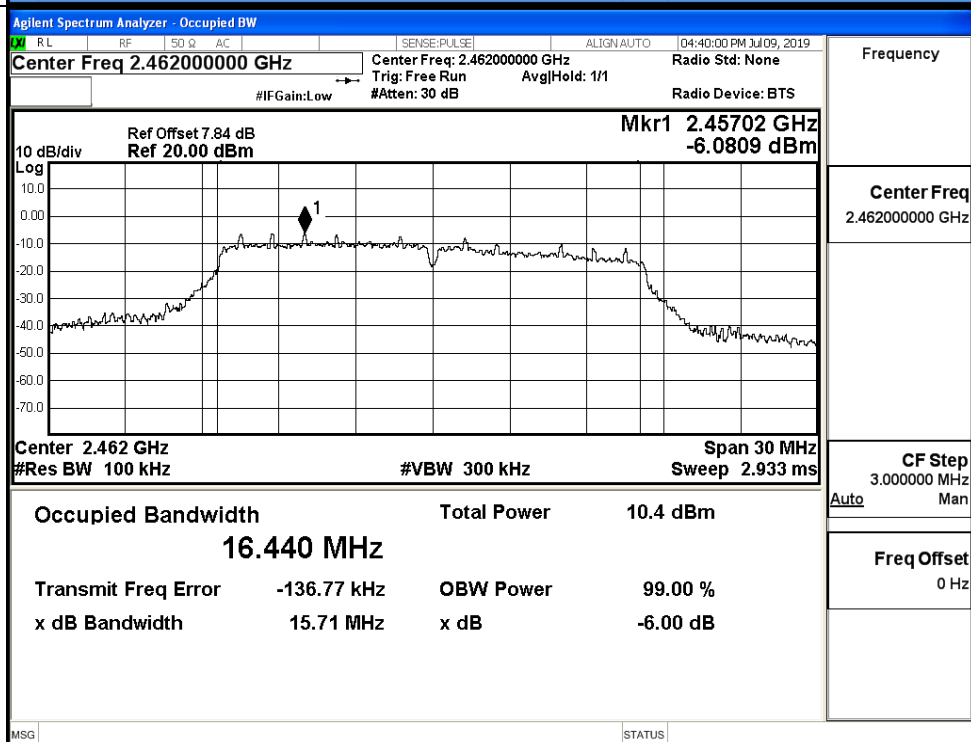
11G/LCH



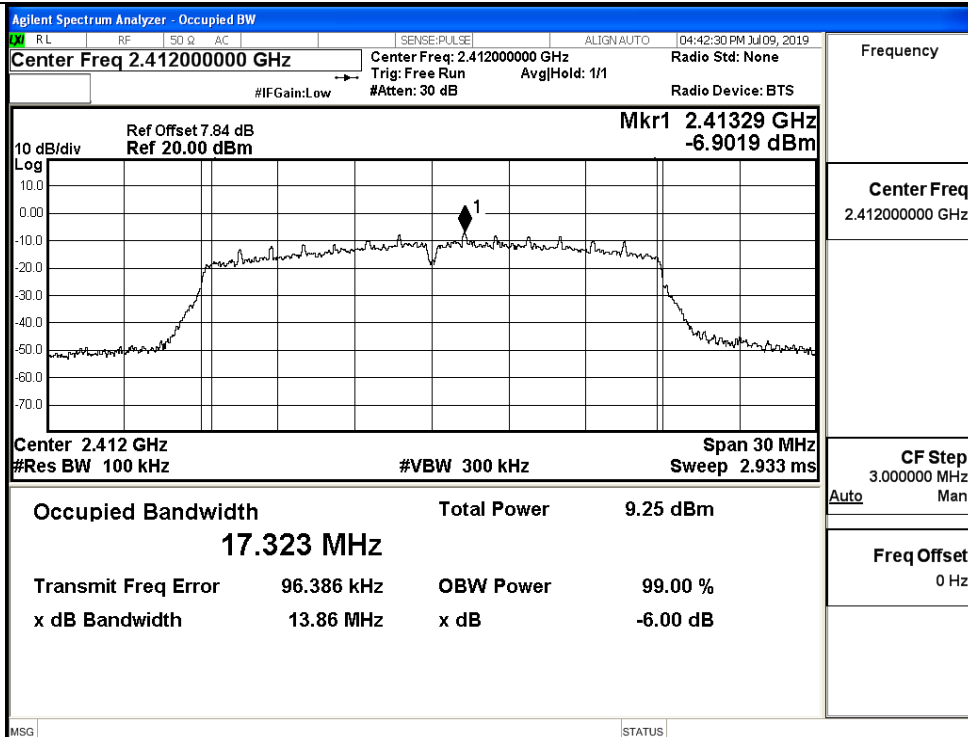
11G/MCH



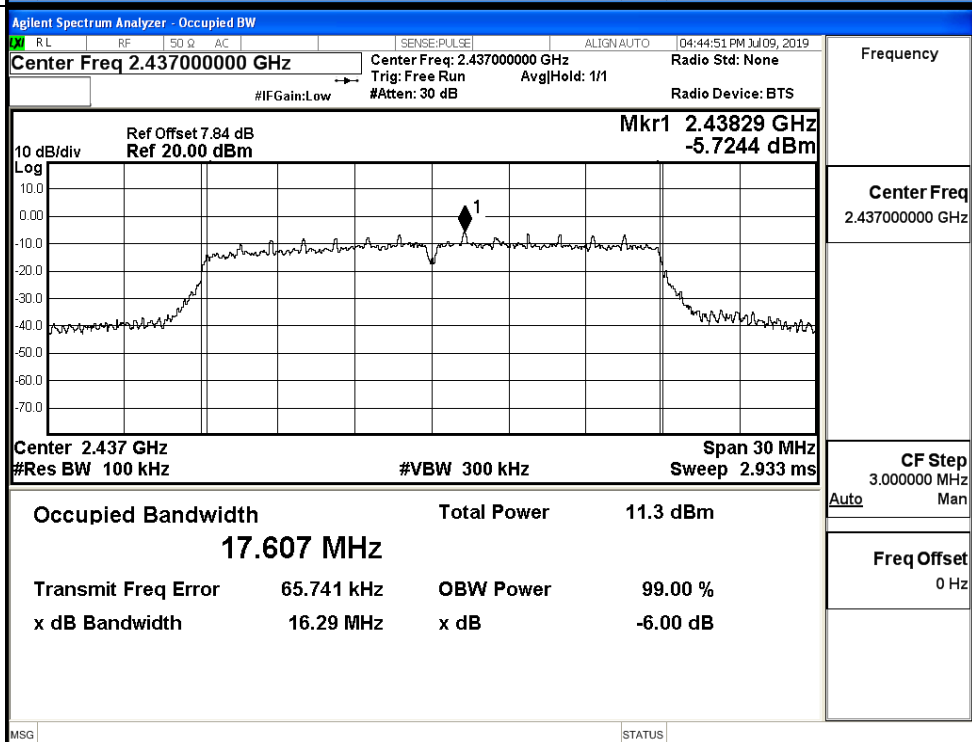
11G/HCH



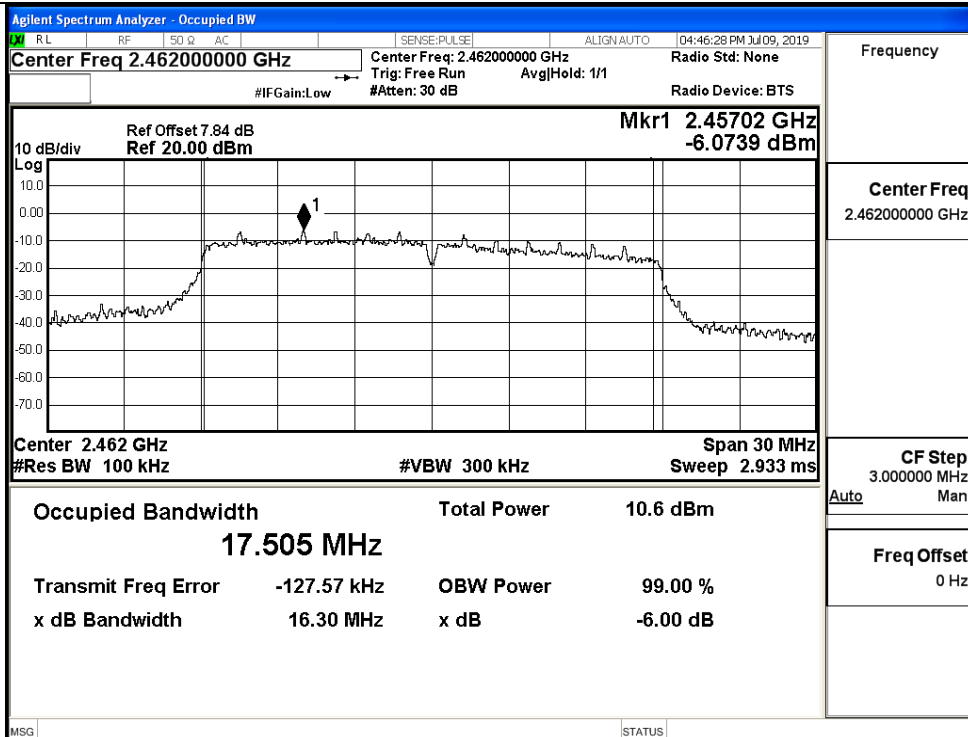
11N20SISO/LCH



11N20SISO/MCH



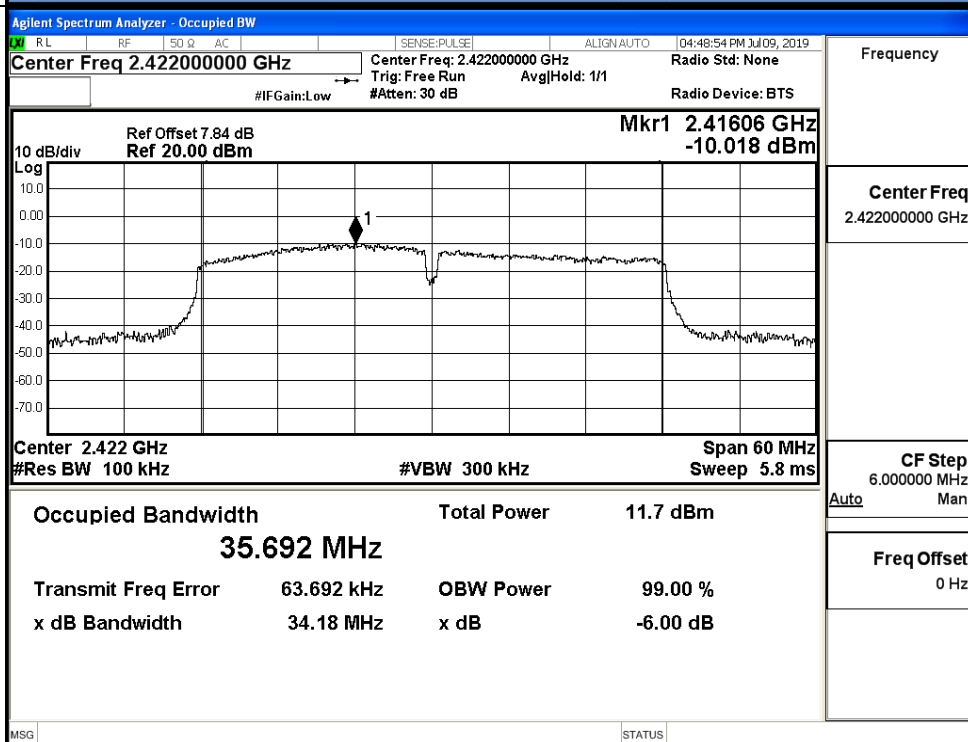
11N20SISO/HCH



Frequency

Center Freq
2.462000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

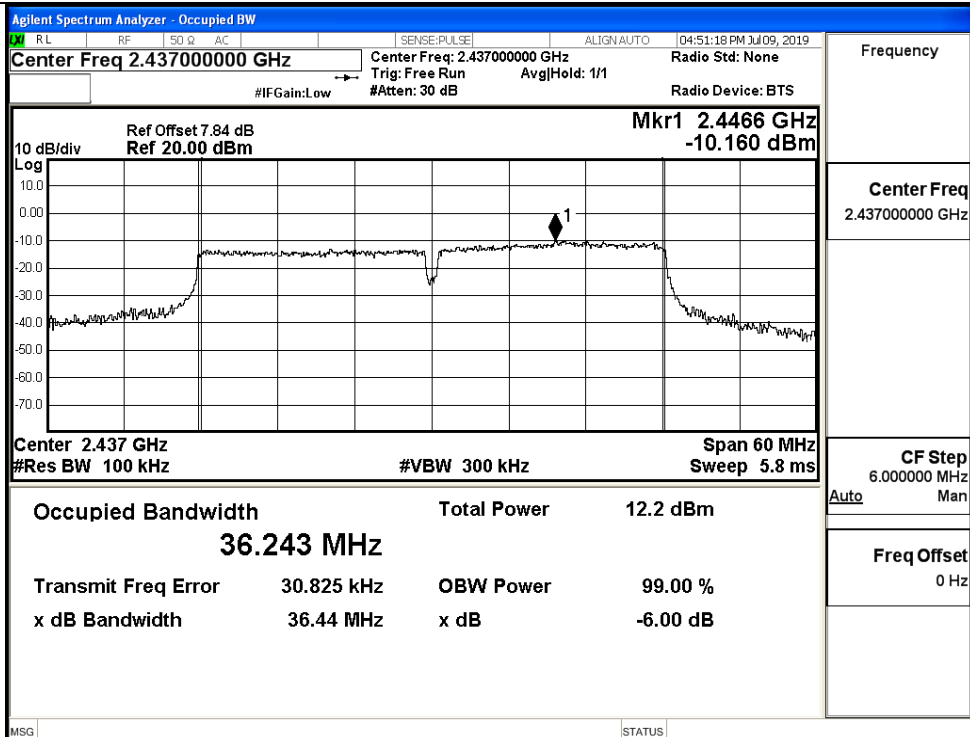
11N40SISO/LCH



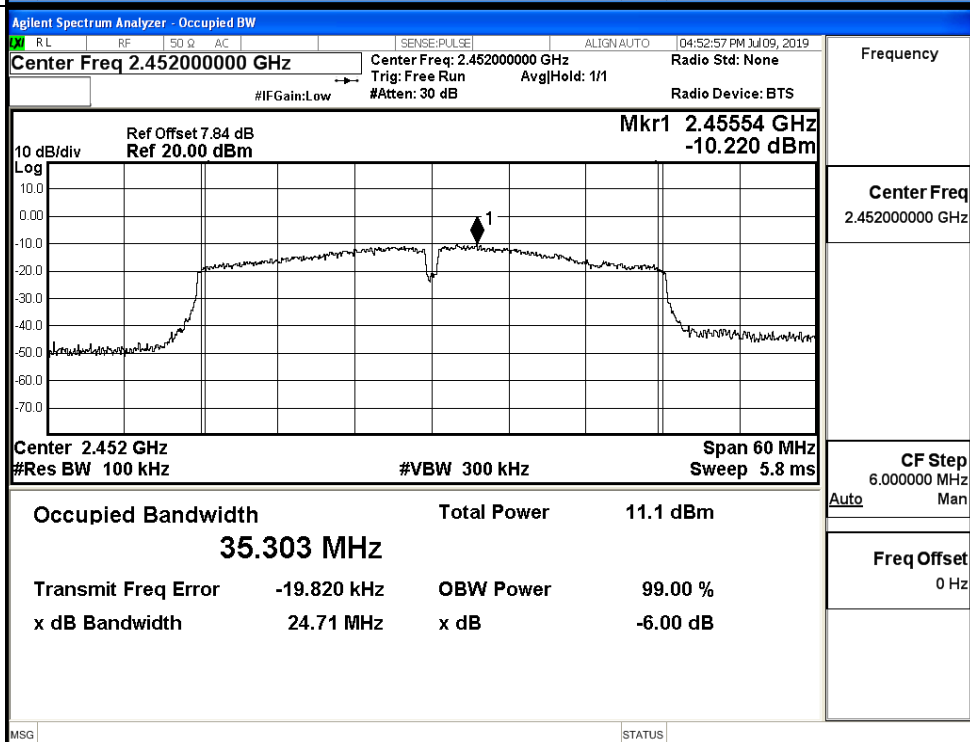
Frequency

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

11N40SISO/MCH



11N40SISO/HCH

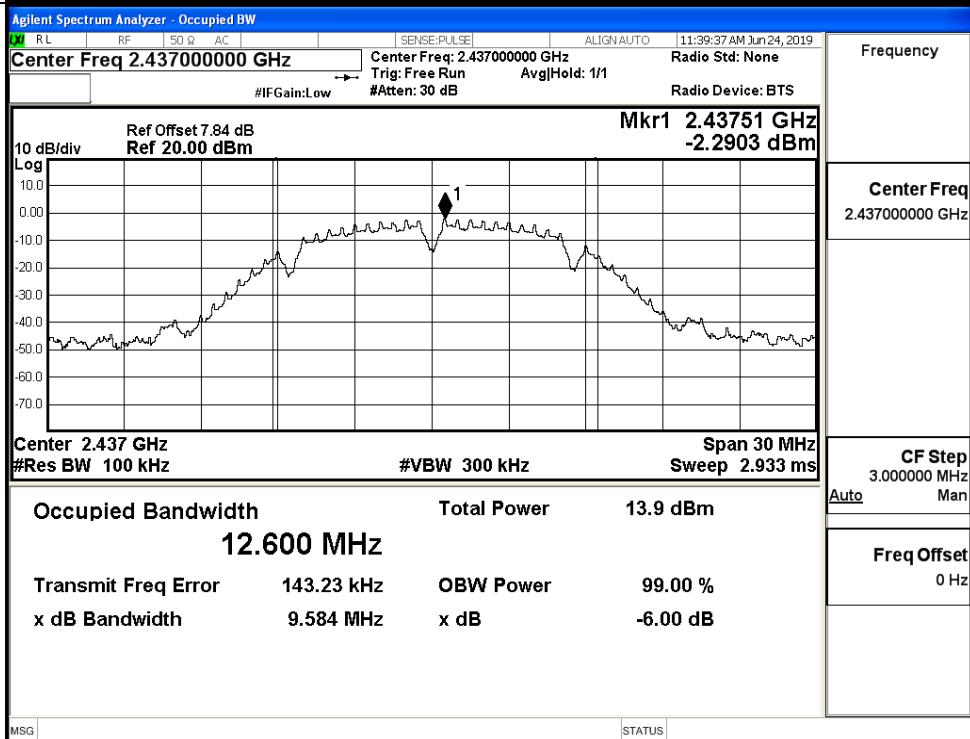


Test Graphs Ant 1

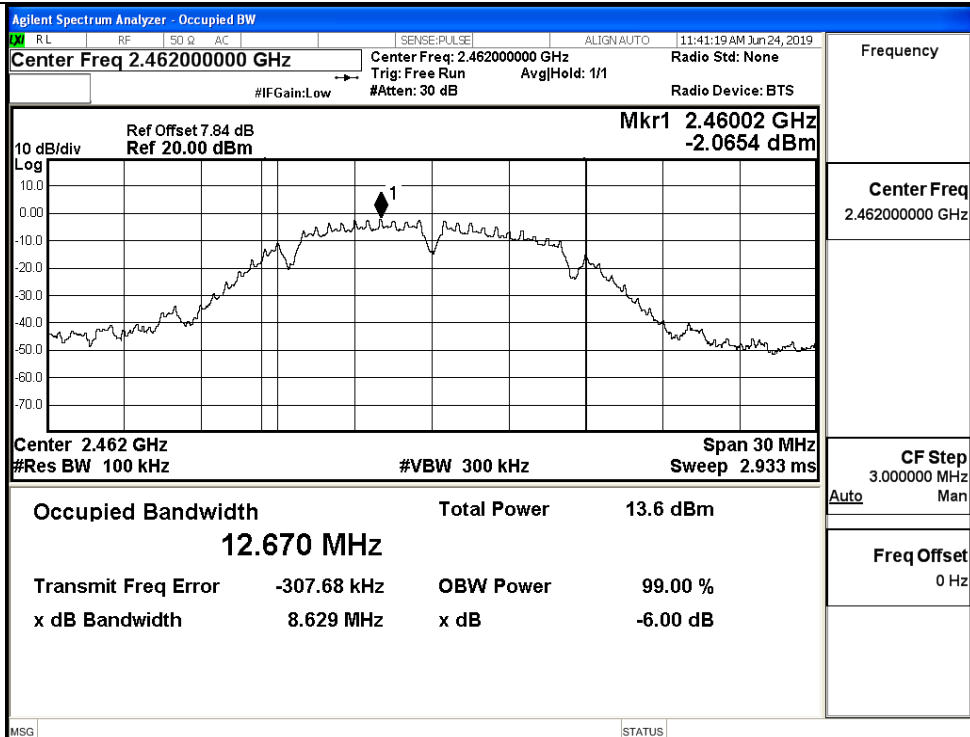
11B/LCH



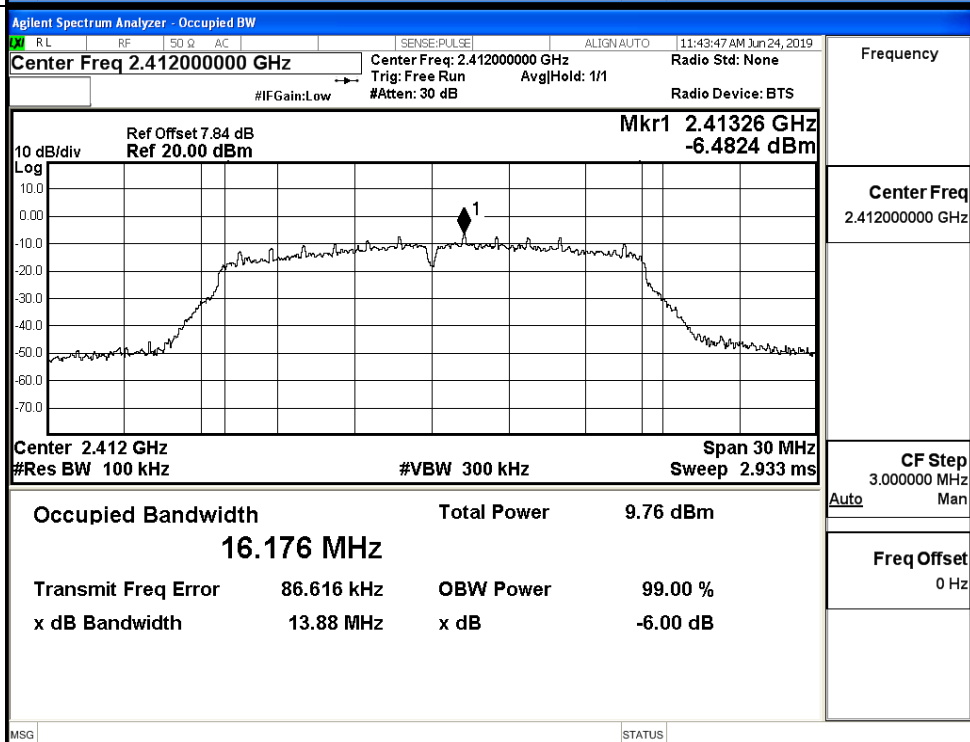
11B/MCH



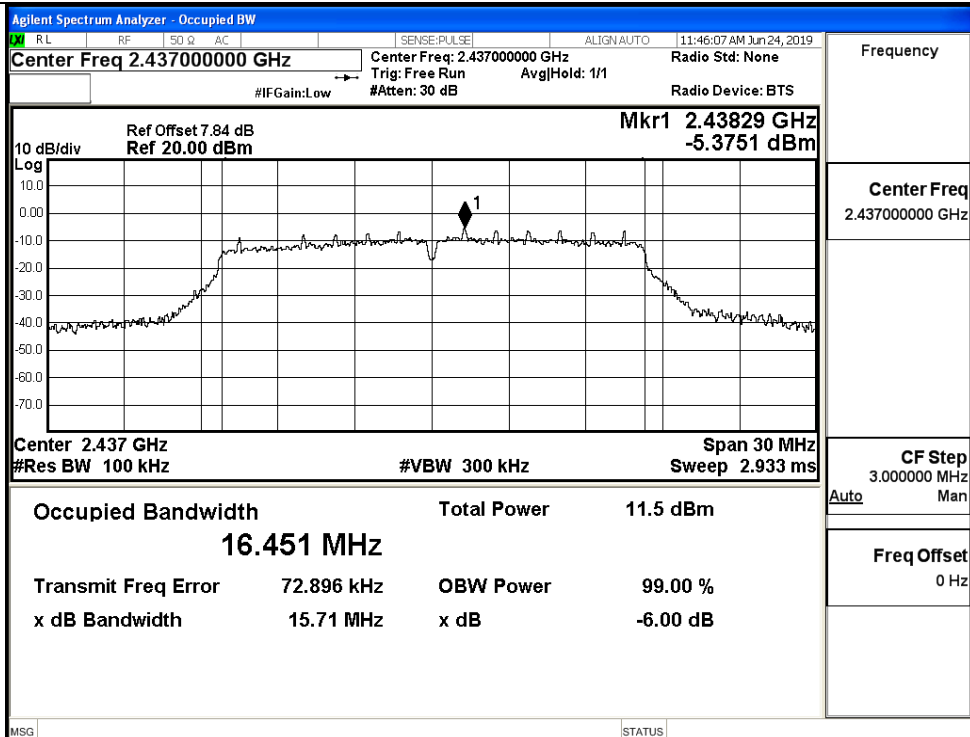
11B/HCH



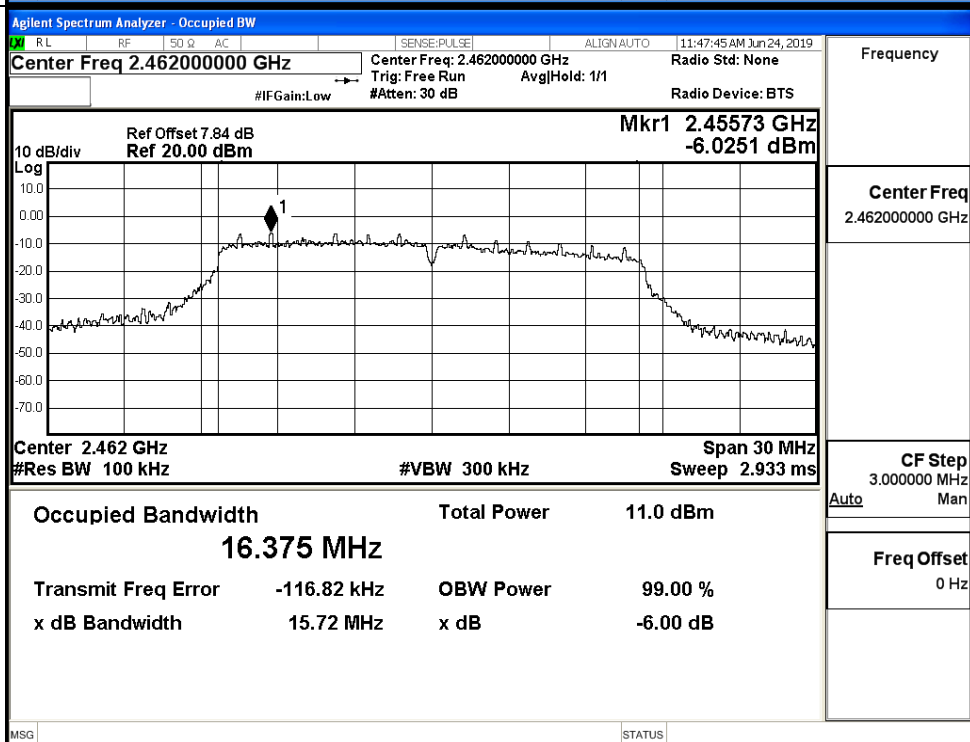
11G/LCH



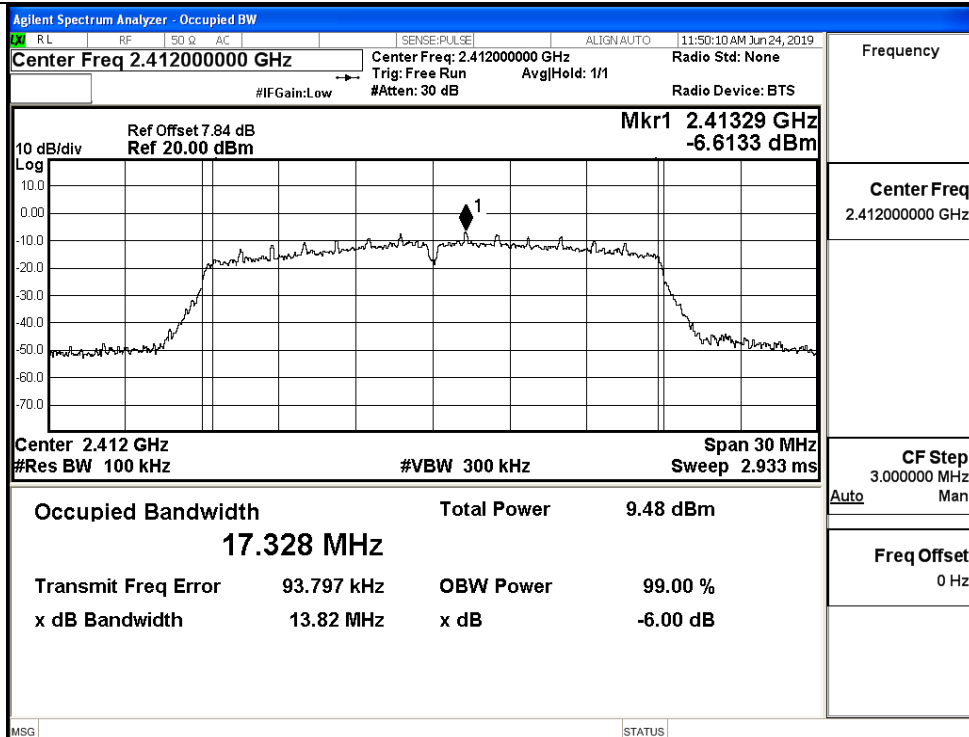
11G/MCH



11G/HCH



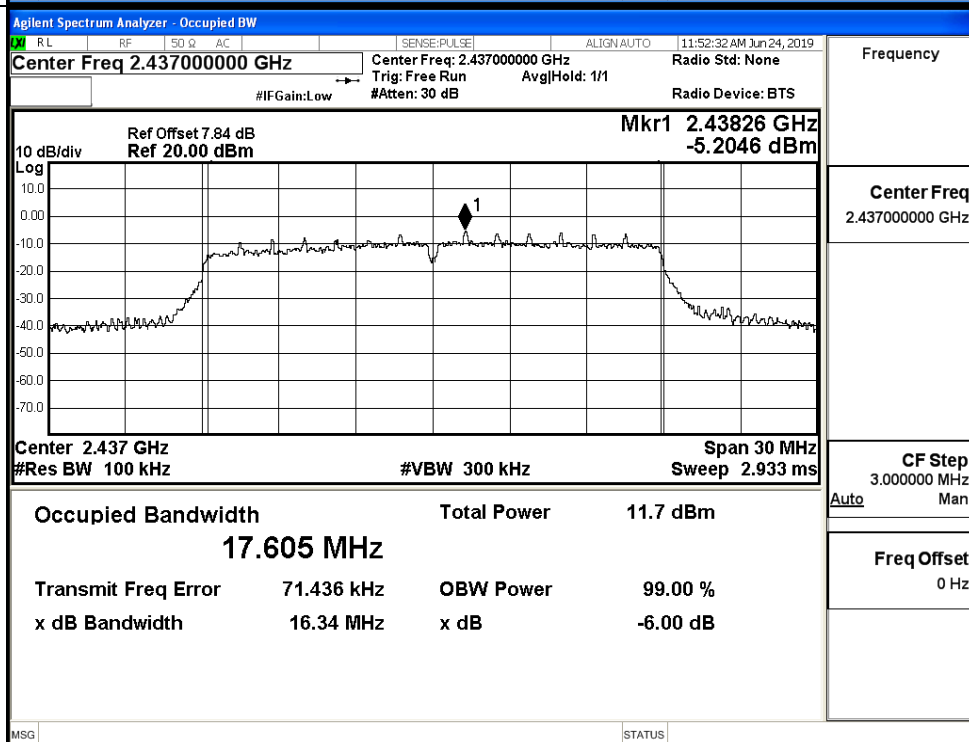
11N20SISO/LCH



Frequency

Center Freq
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3.000000 MHz
Auto ManFreq Offset
0 Hz

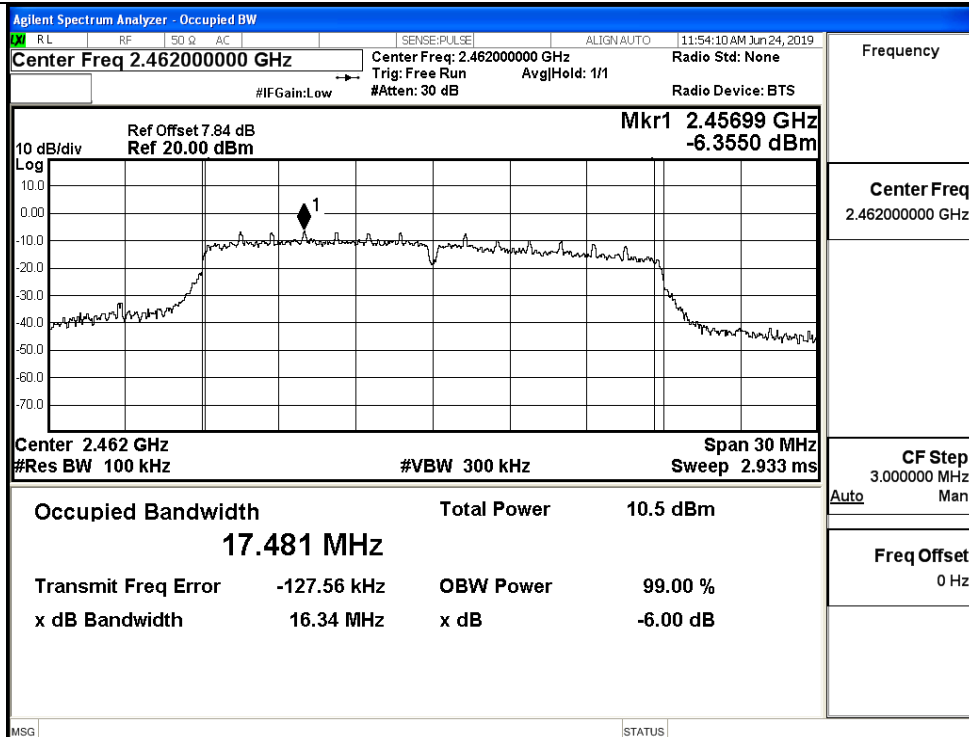
11N20SISO/MCH



Frequency

Center Freq
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3.000000 MHz
Auto ManFreq Offset
0 Hz

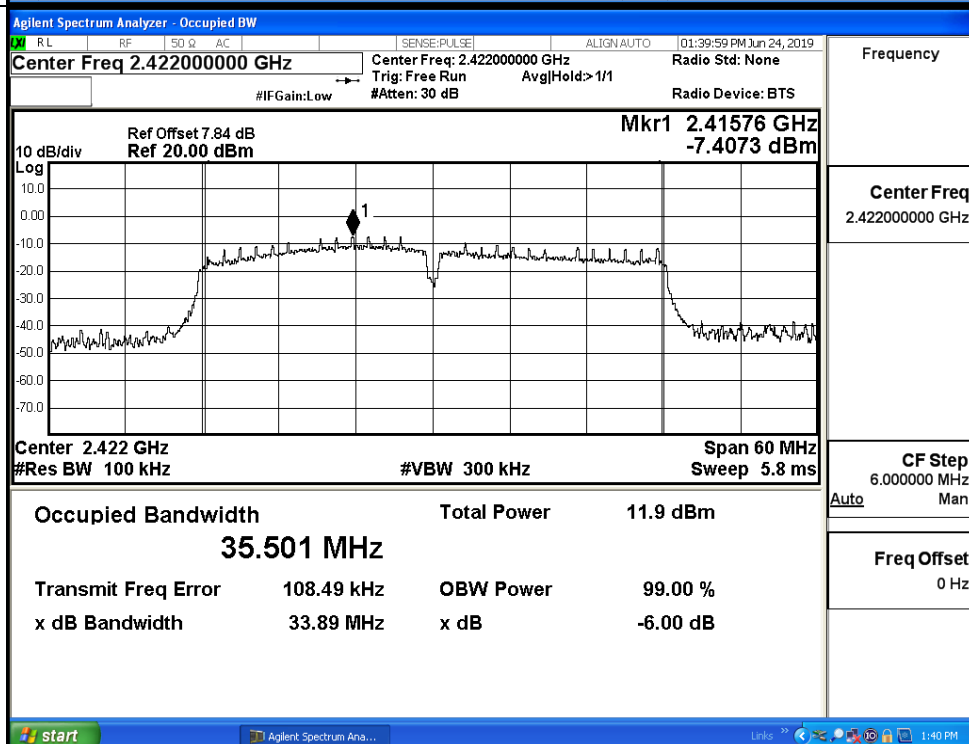
11N20SISO/HCH



Frequency

Center Freq
2.462000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

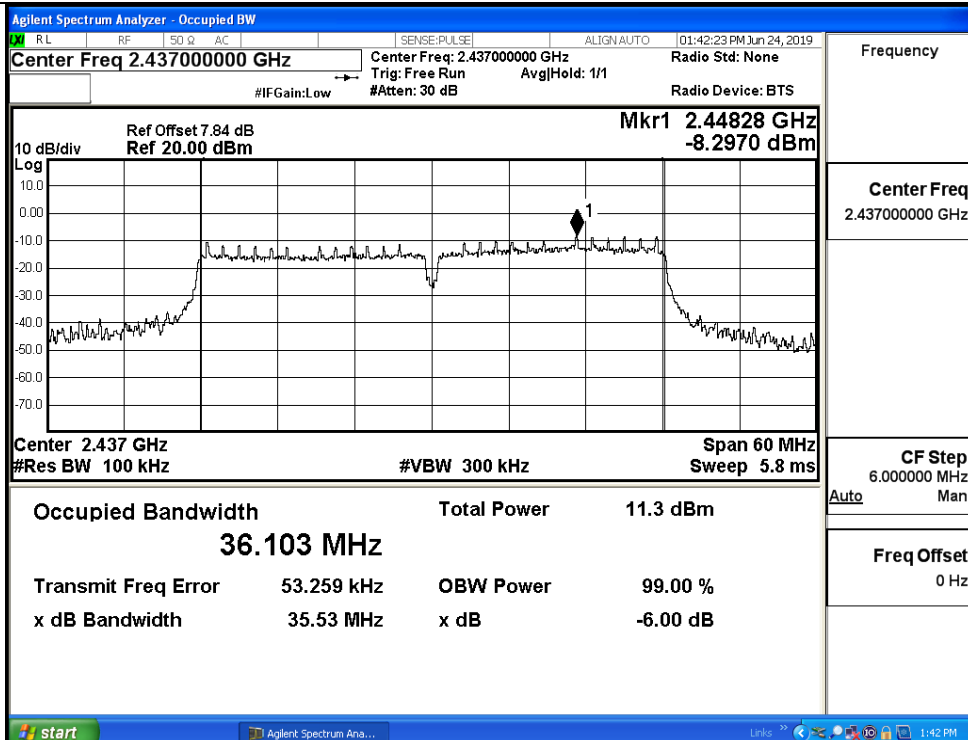
11N40SISO/LCH



Frequency

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

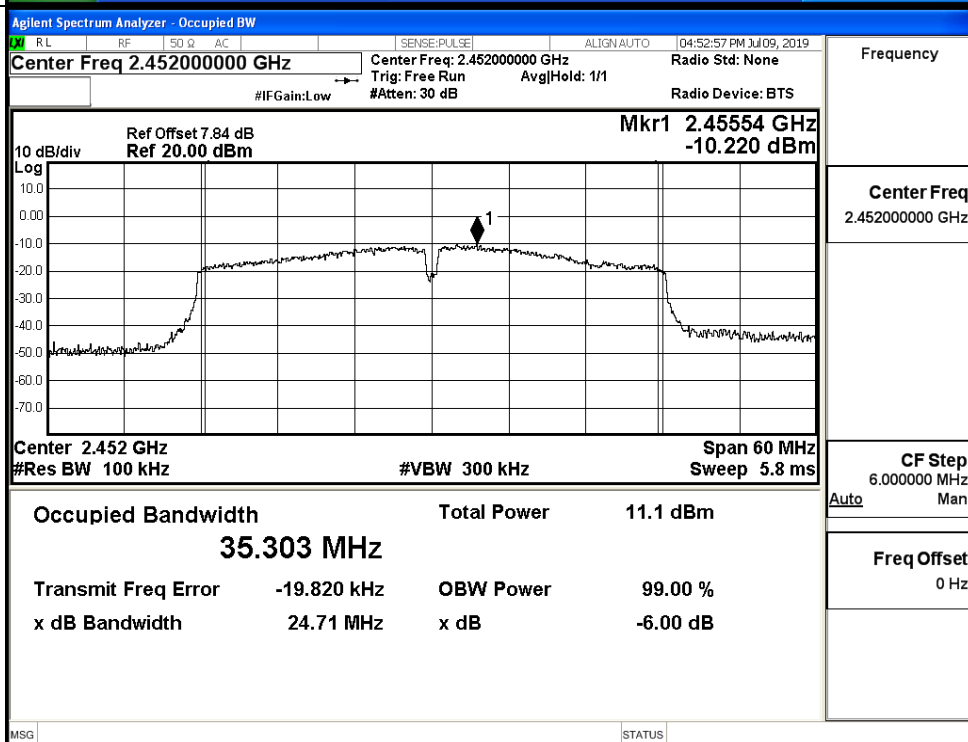
11N40SISO/MCH



Frequency

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

11N40SISO/HCH



Frequency

Center Freq
2.452000000 GHzCF Step
6.000000 MHz
Auto ManFreq Offset
0 Hz

C.5 Occupied Bandwidth

Antenna 0

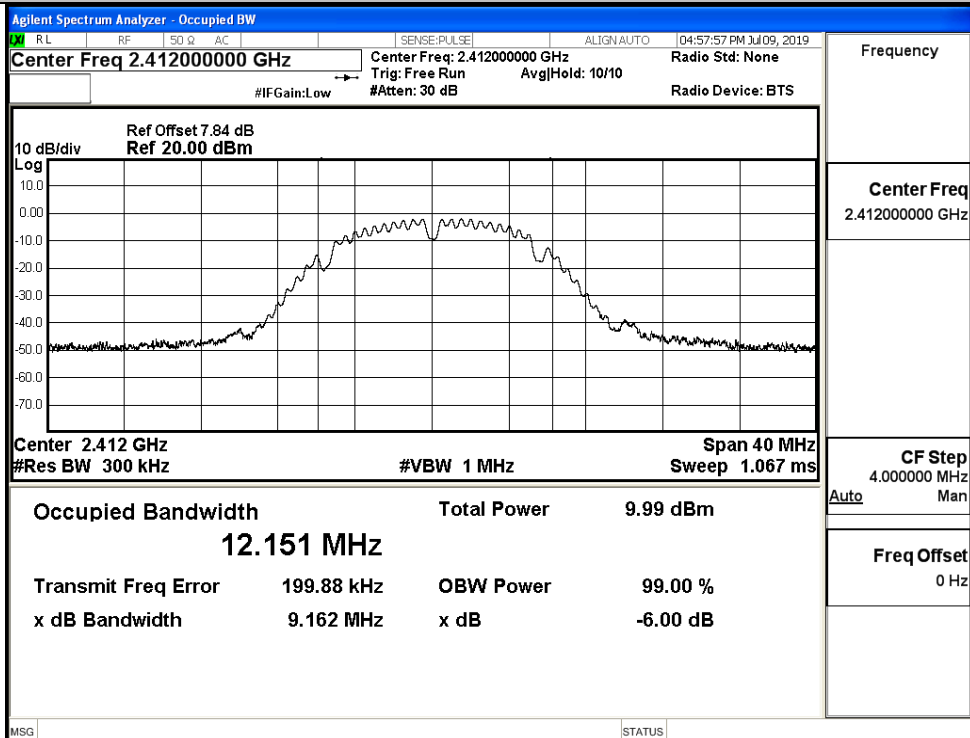
Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	12.151	No Limits	PASS
	MCH	12.672	No Limits	PASS
	HCH	12.799	No Limits	PASS
11G	LCH	16.356	No Limits	PASS
	MCH	16.806	No Limits	PASS
	HCH	16.737	No Limits	PASS
11N20SISO	LCH	17.387	No Limits	PASS
	MCH	17.808	No Limits	PASS
	HCH	17.675	No Limits	PASS
11N40SISO	LCH	35.710	No Limits	PASS
	MCH	36.402	No Limits	PASS
	HCH	35.351	No Limits	PASS

Antenna 1

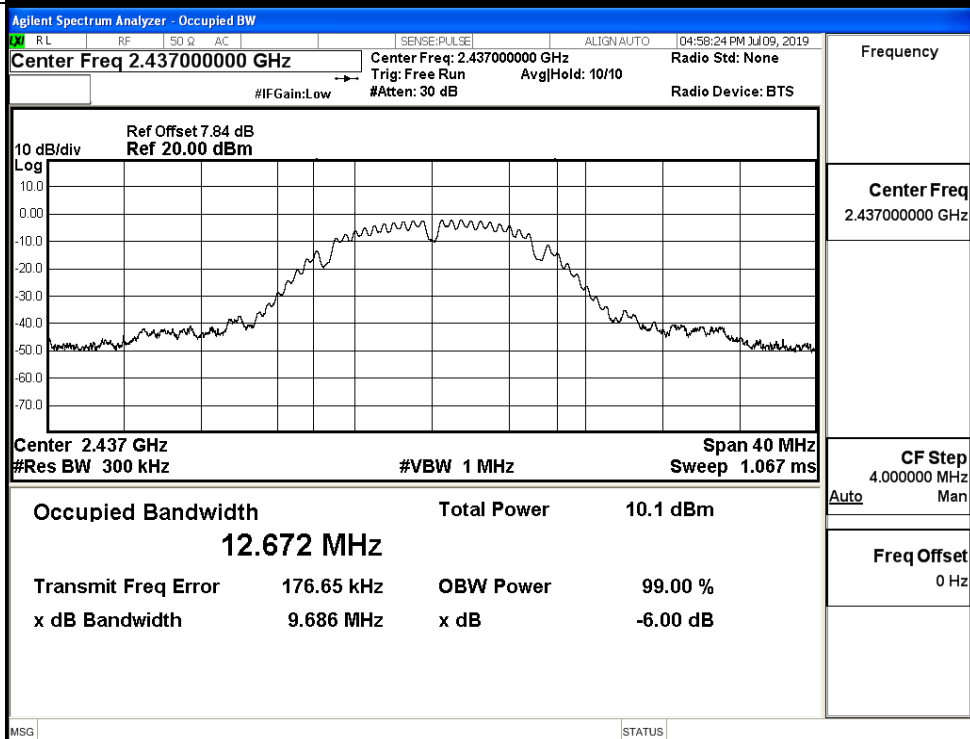
Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	12.180	No Limits	PASS
	MCH	12.663	No Limits	PASS
	HCH	12.662	No Limits	PASS
11G	LCH	16.373	No Limits	PASS
	MCH	16.807	No Limits	PASS
	HCH	16.690	No Limits	PASS
11N20SISO	LCH	17.388	No Limits	PASS
	MCH	17.827	No Limits	PASS
	HCH	17.659	No Limits	PASS
11N40SISO	LCH	35.755	No Limits	PASS
	MCH	36.465	No Limits	PASS
	HCH	35.417	No Limits	PASS

Test Graphs Ant 0

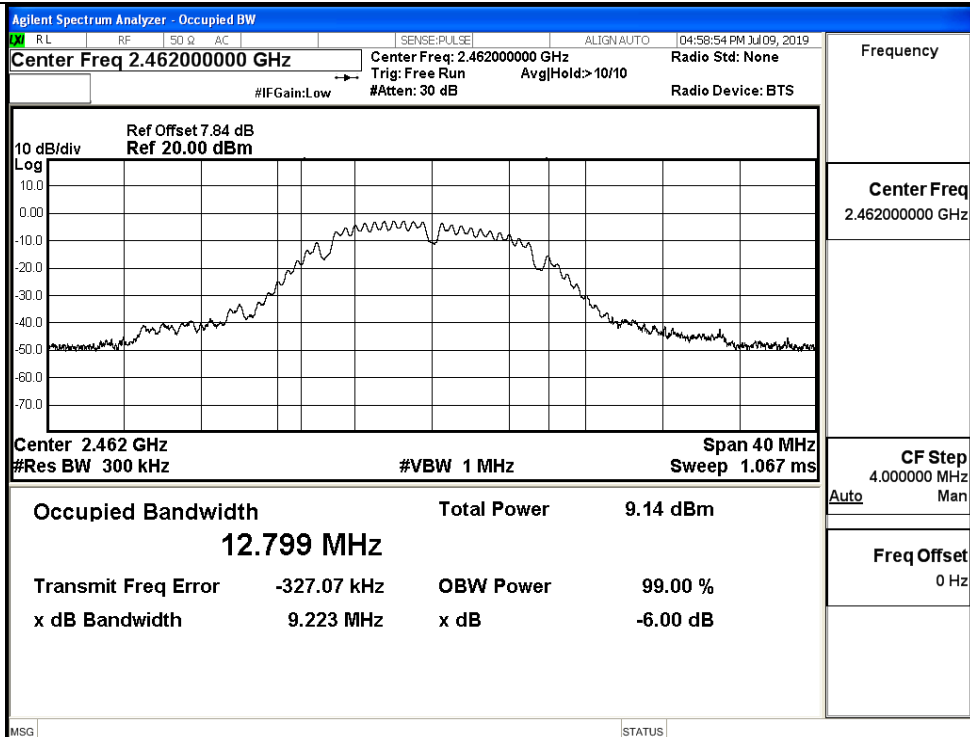
11B/LCH



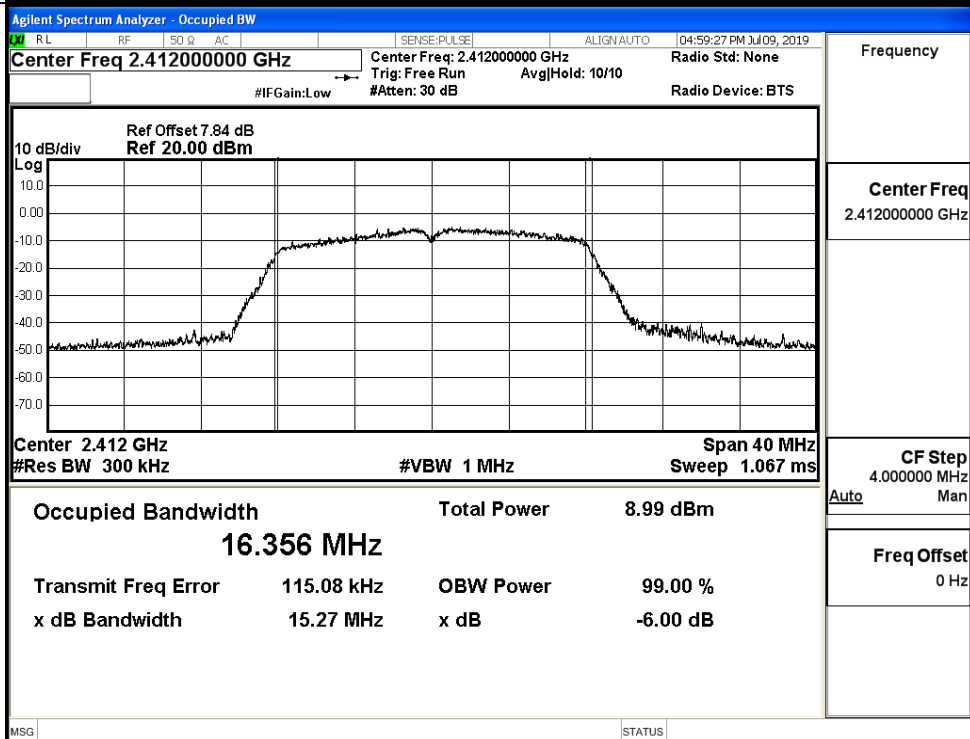
11B/MCH



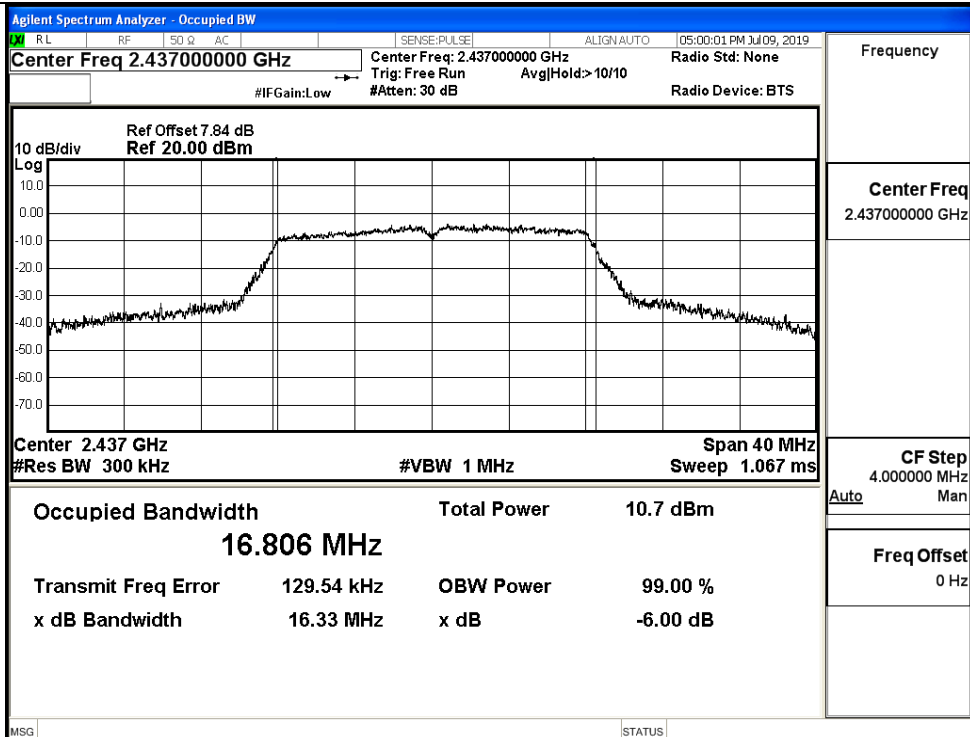
11B/HCH



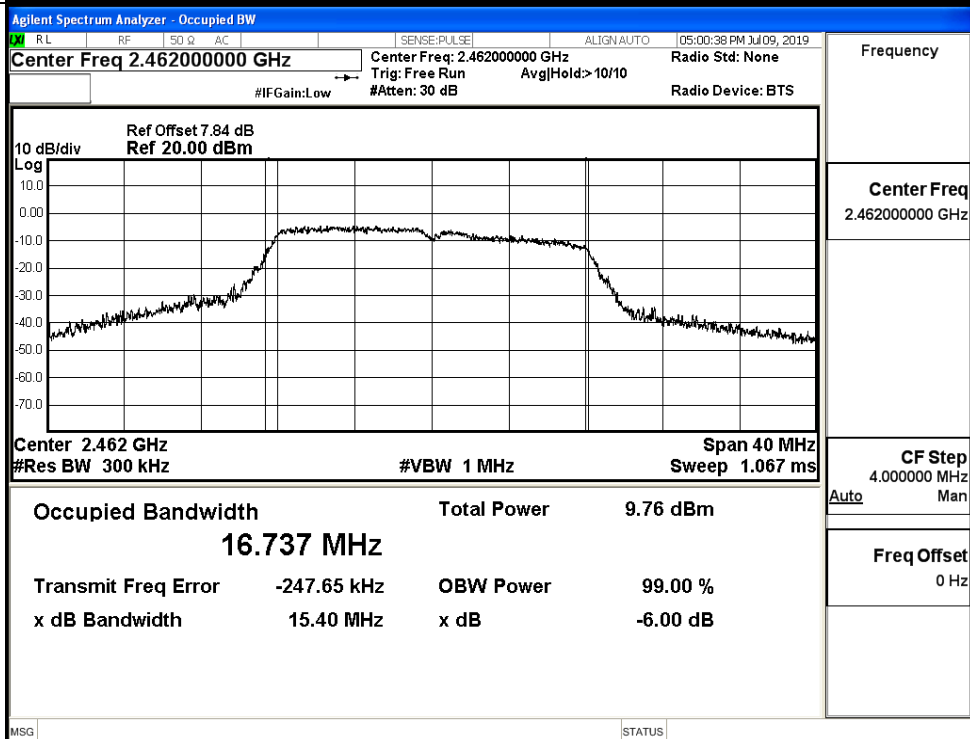
11G/LCH



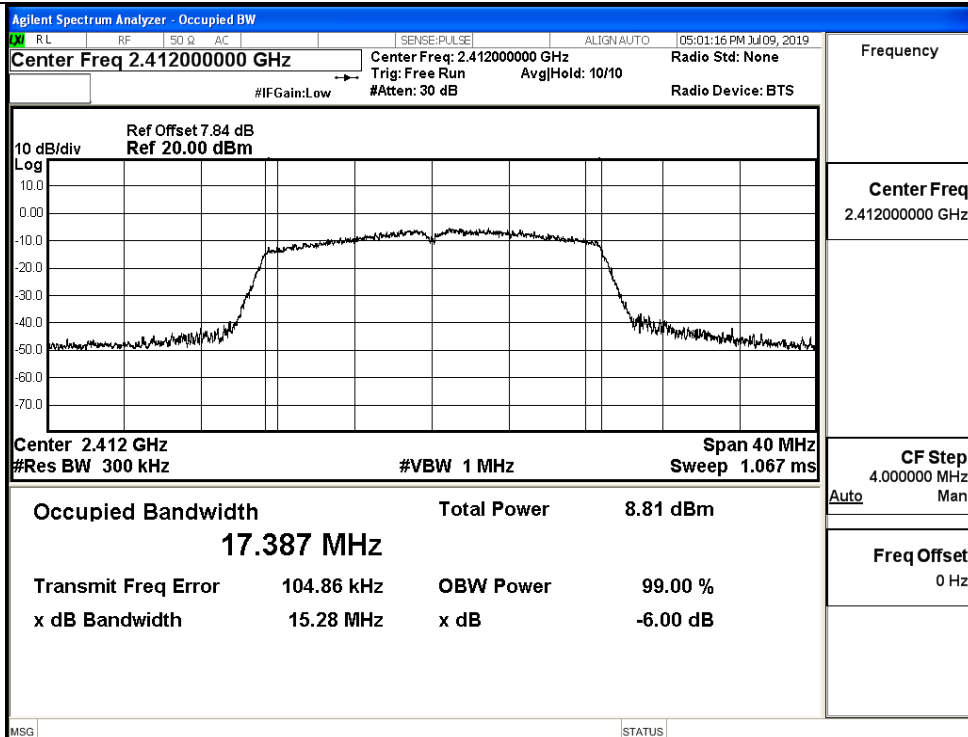
11G/MCH



11G/HCH



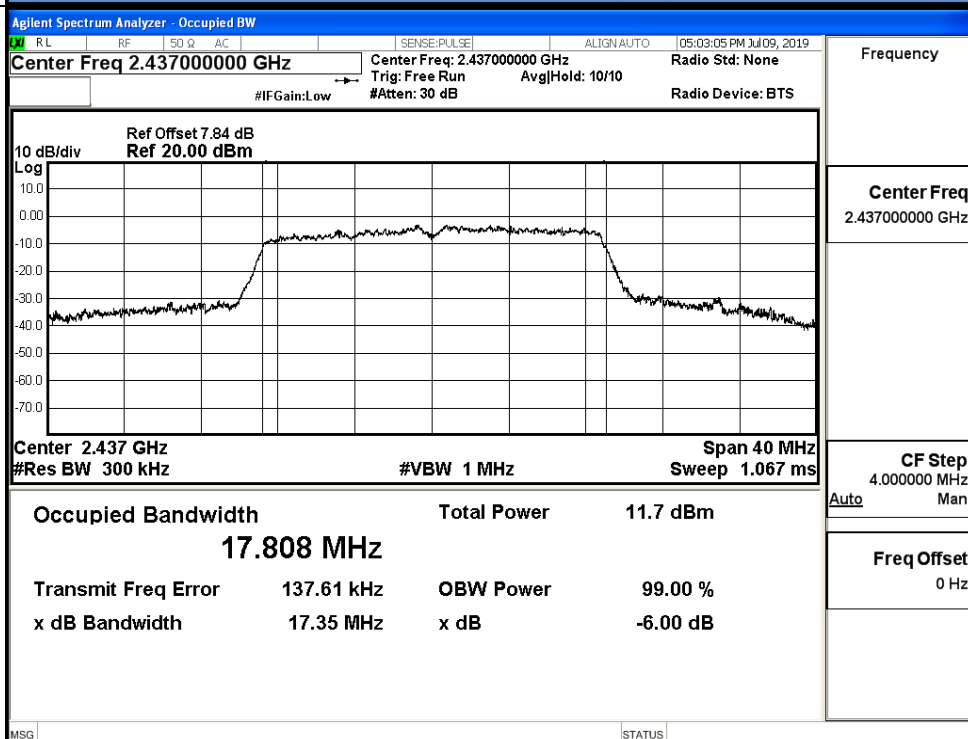
11N20SISO/LCH



Frequency

Center Freq
2.412000000 GHzCF Step
4.000000 MHz
Auto ManFreq Offset
0 Hz

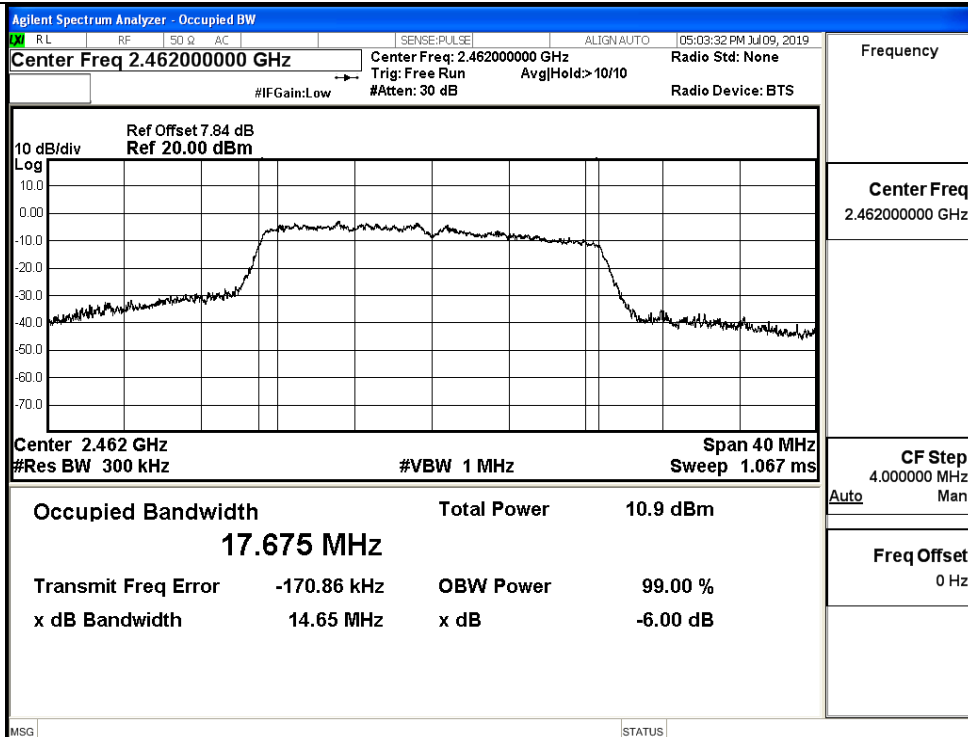
11N20SISO/MCH



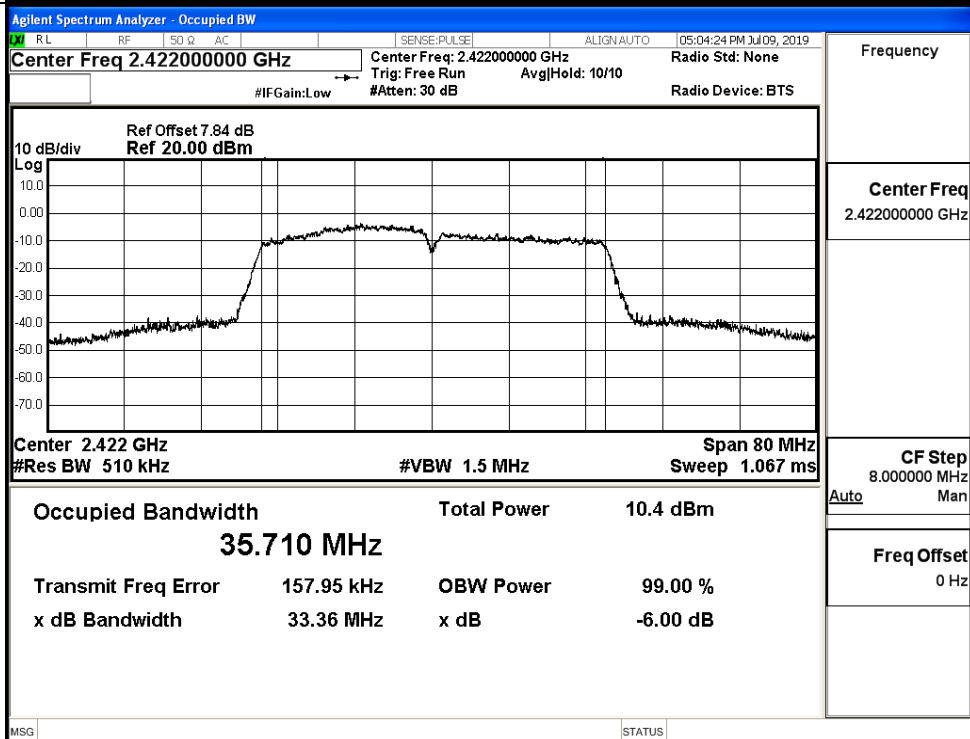
Frequency

Center Freq
2.437000000 GHzCF Step
4.000000 MHz
Auto ManFreq Offset
0 Hz

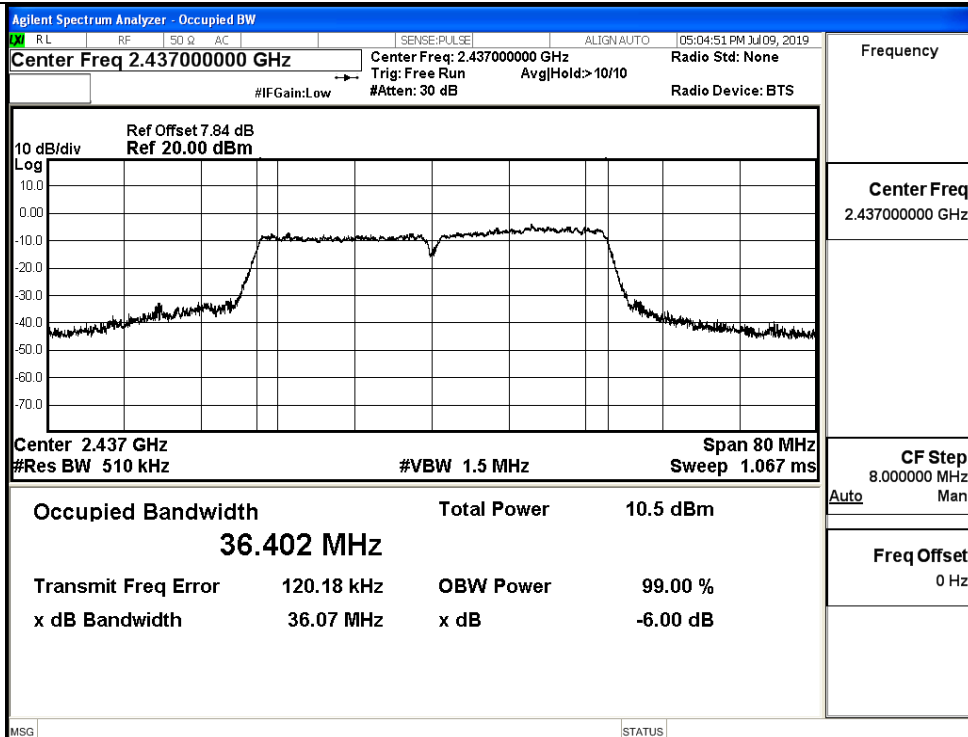
11N20SISO/HCH



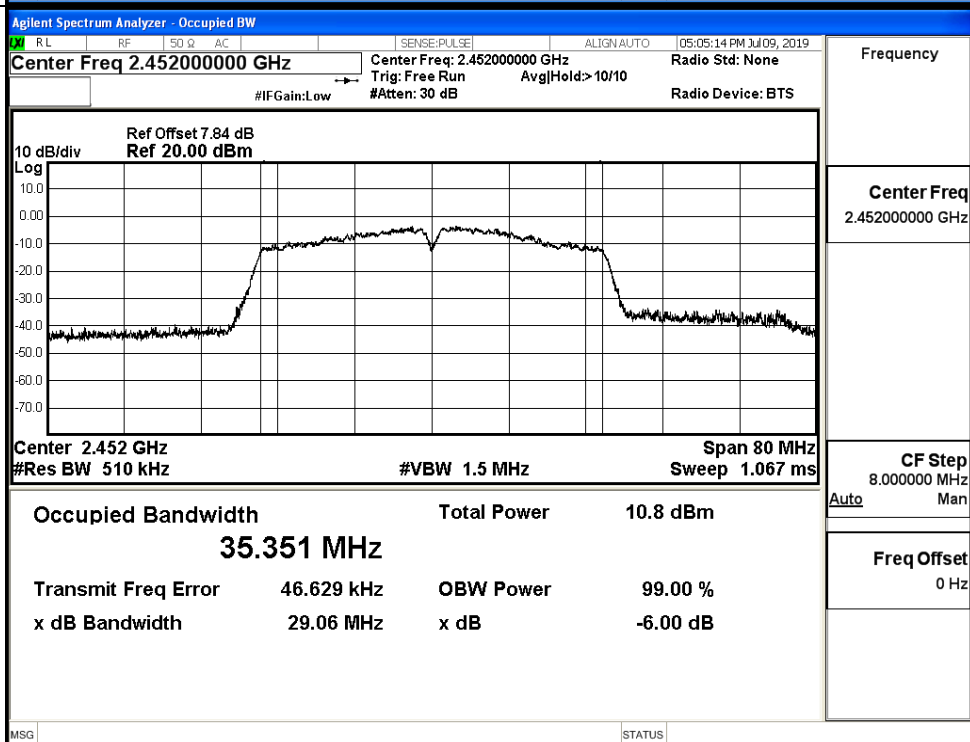
11N40SISO/LCH



11N40SISO/MCH

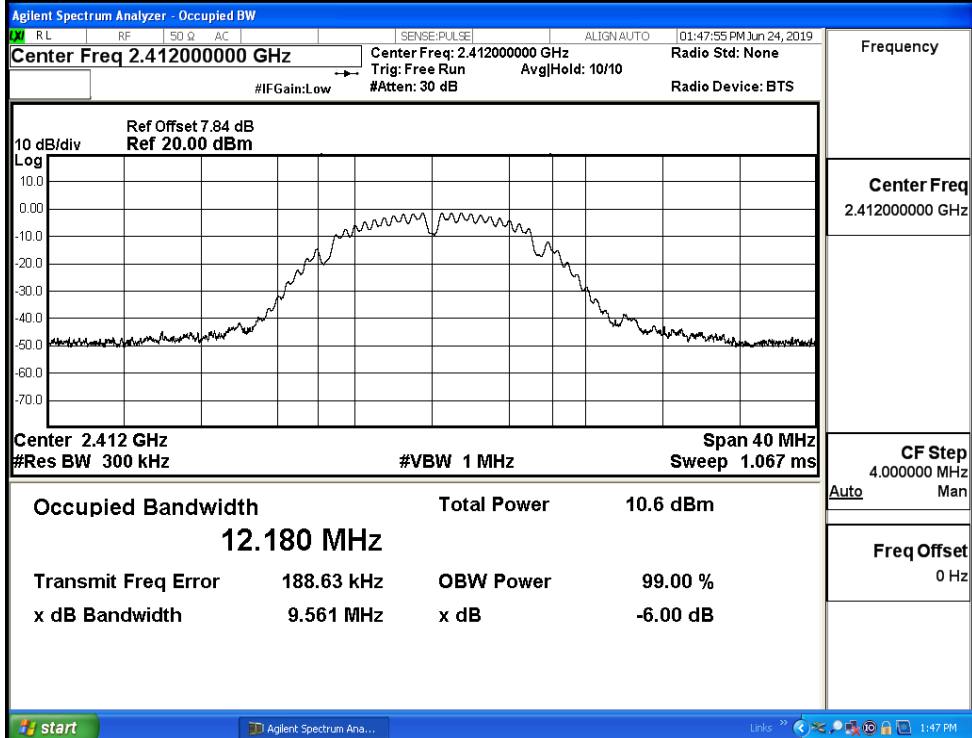


11N40SISO/HCH

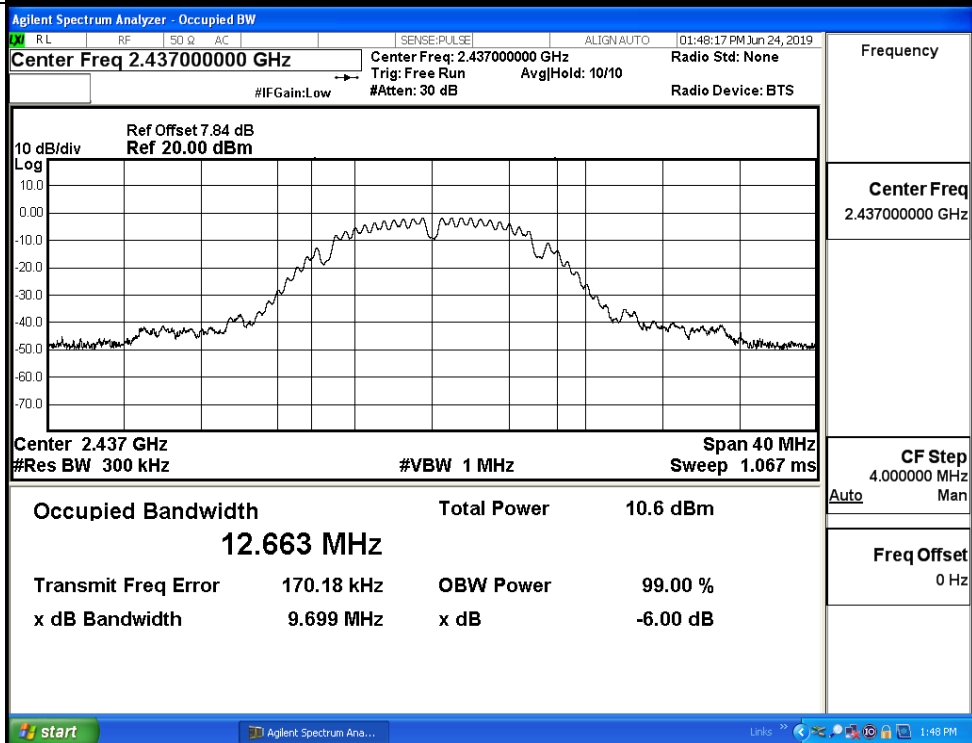


Test Graphs Ant 1

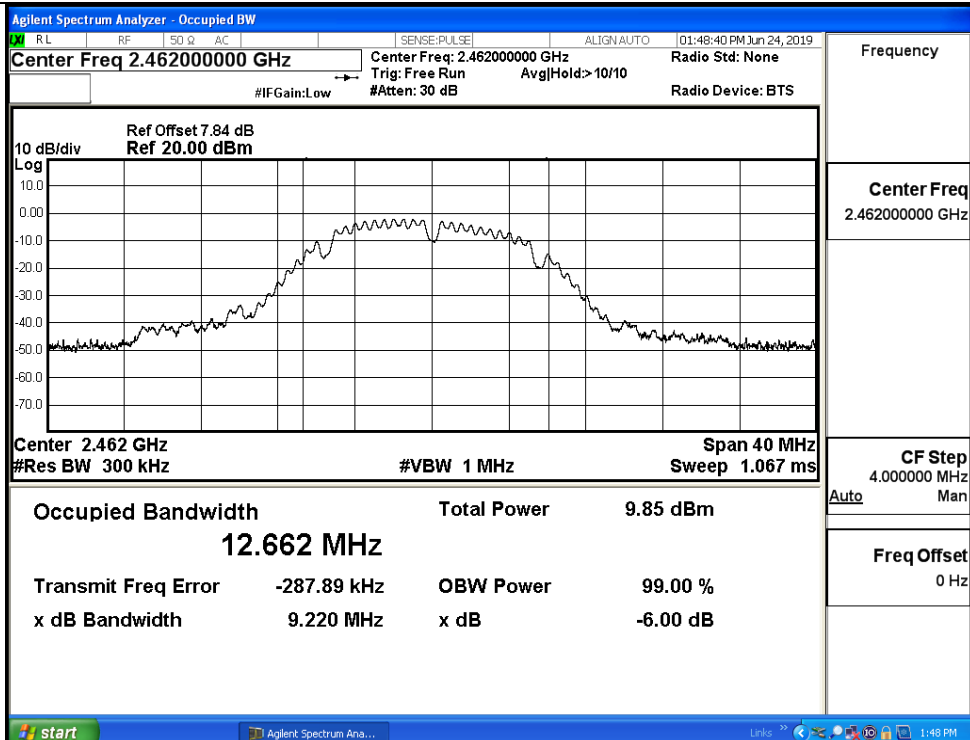
11B/LCH



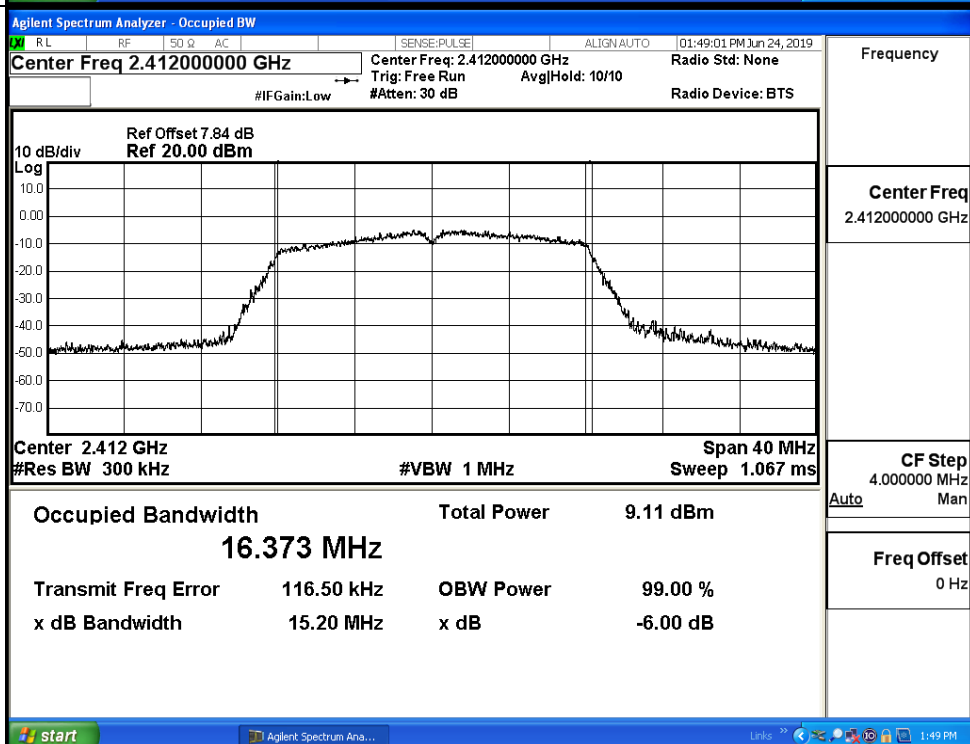
11B/MCH



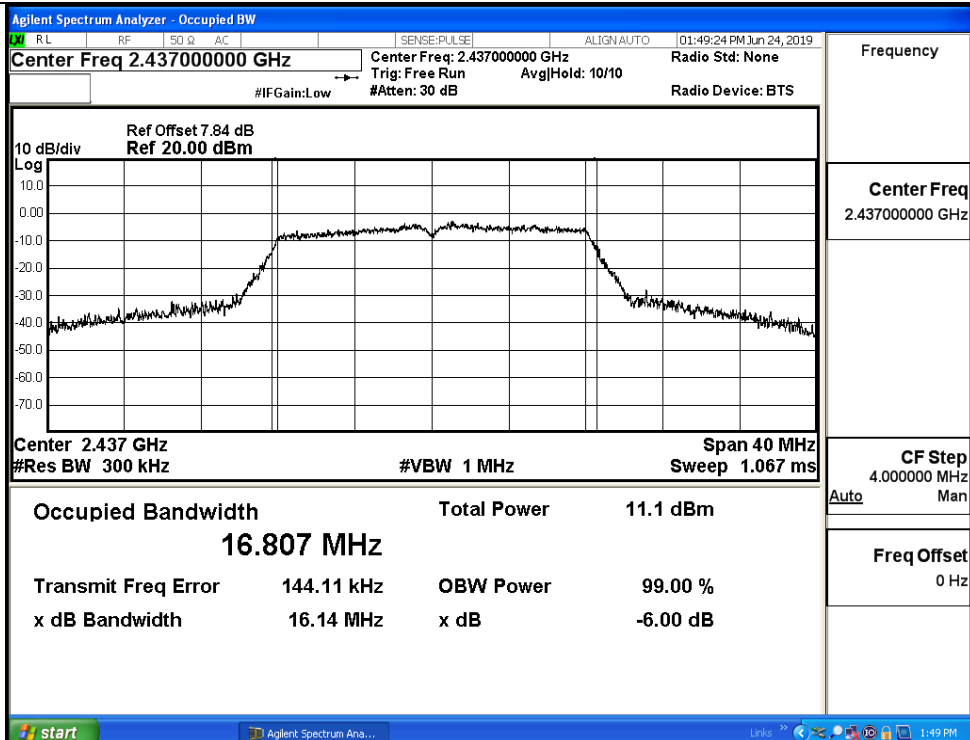
11B/HCH



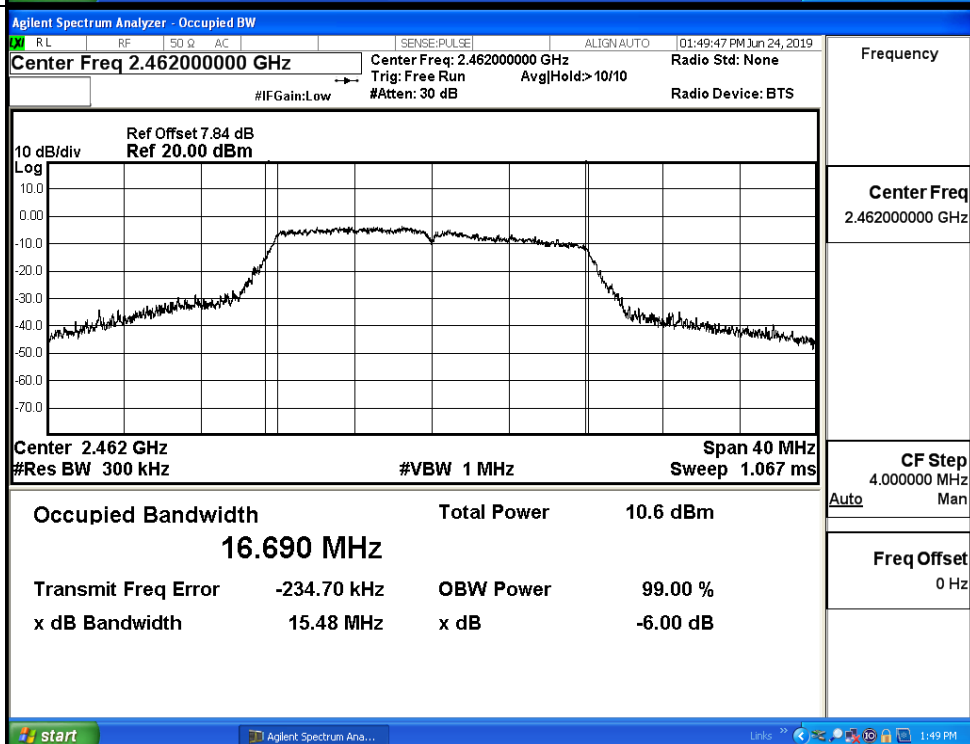
11G/LCH



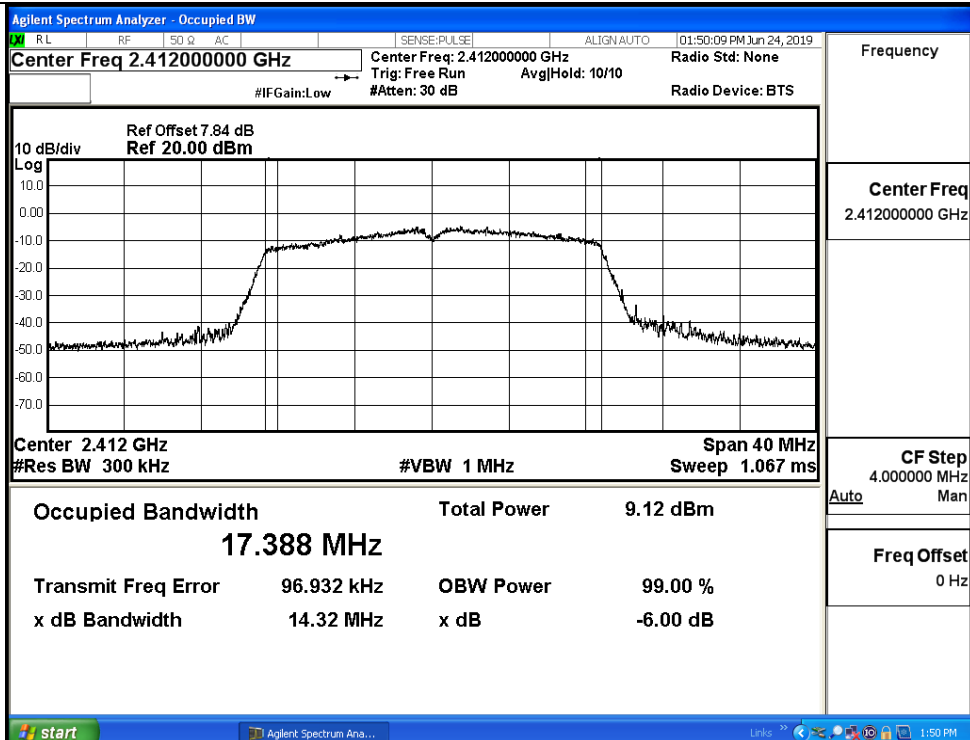
11G/MCH



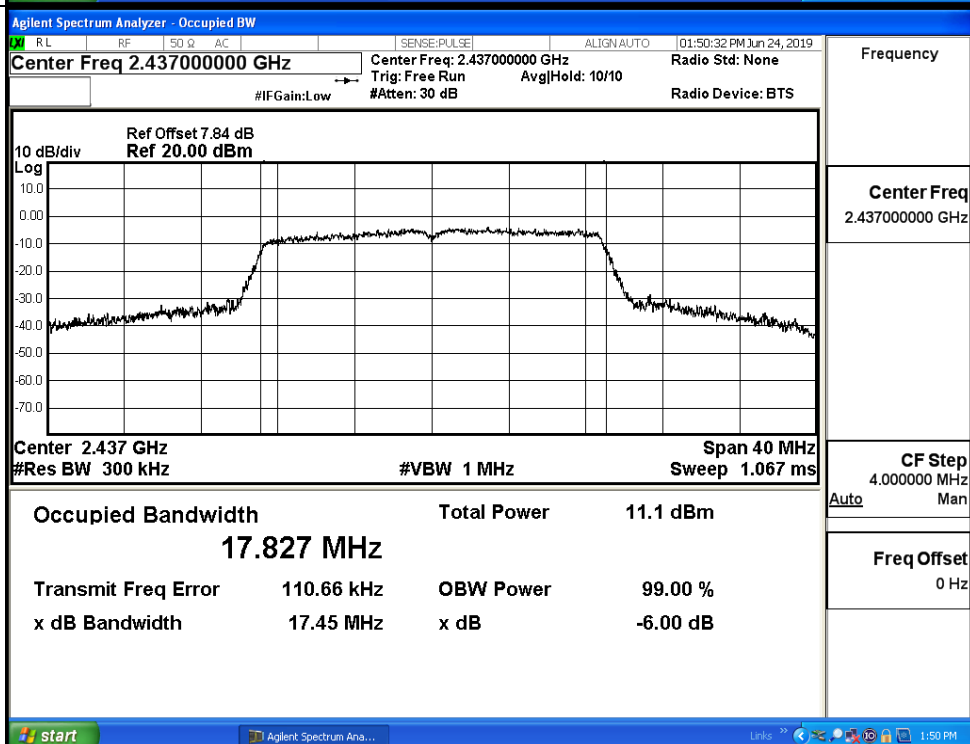
11G/HCH



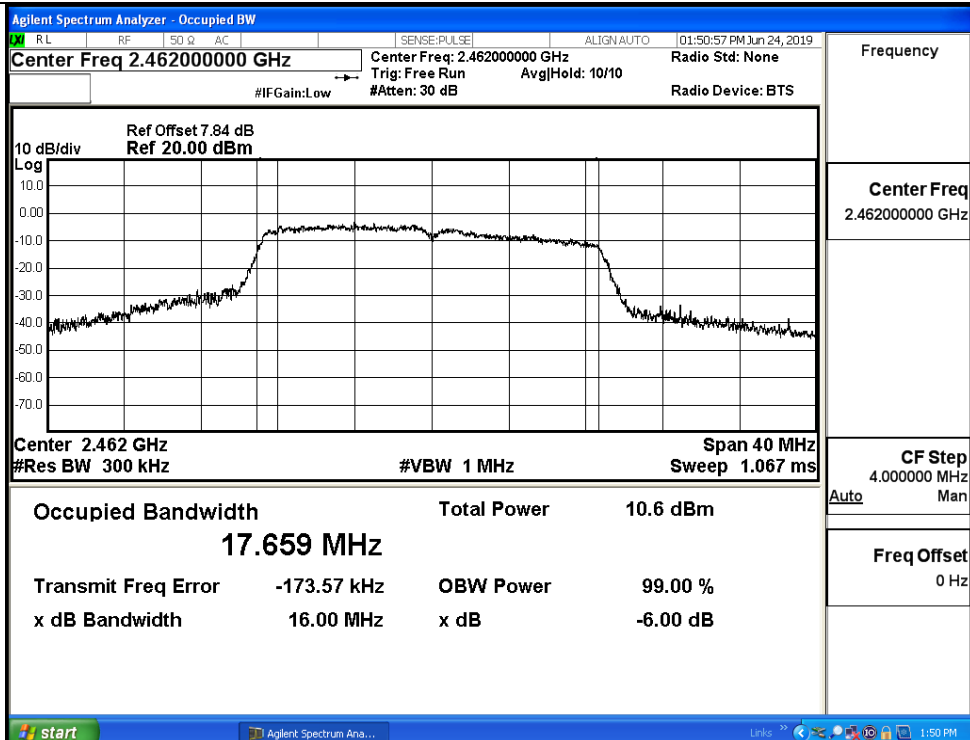
11N20SISO/LCH



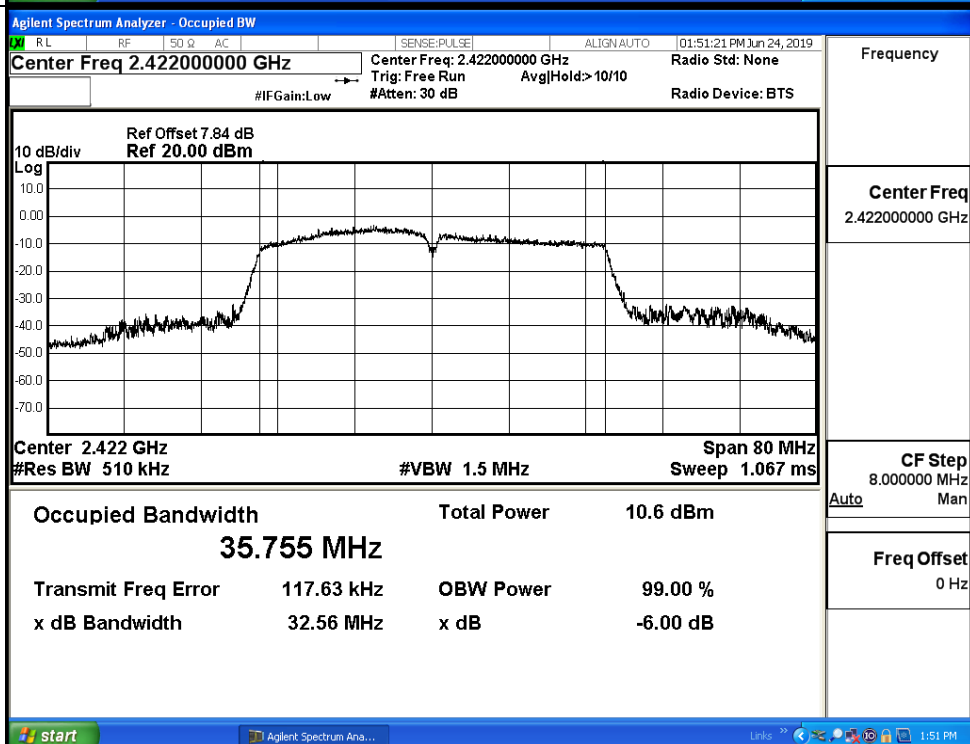
11N20SISO/MCH



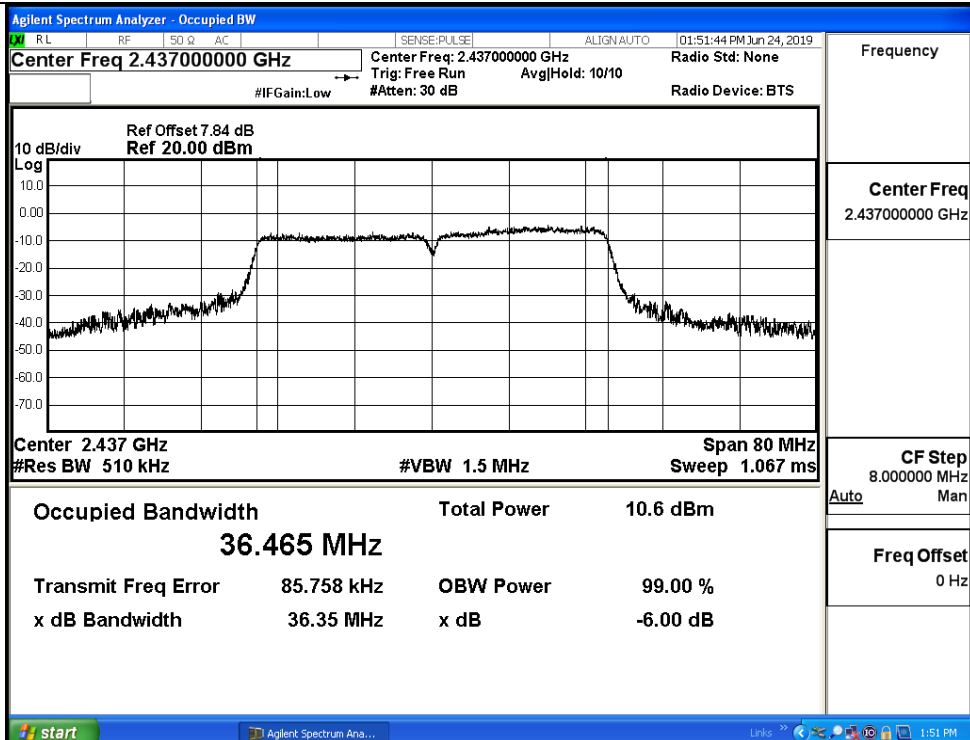
11N20SISO/HCH



11N40SISO/LCH



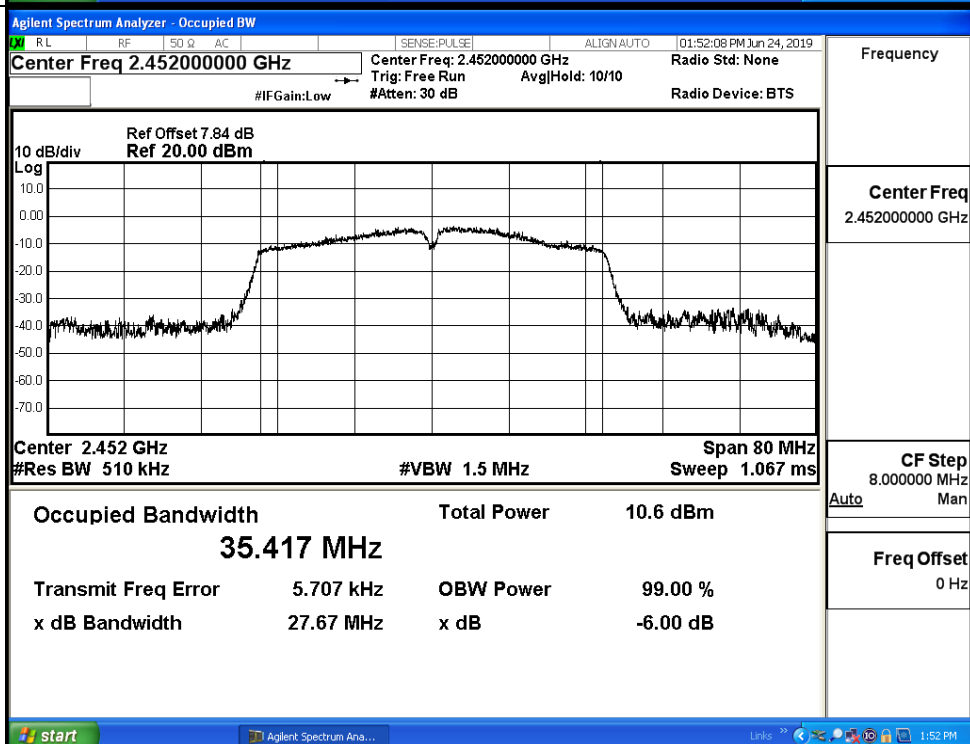
11N40SISO/MCH



Frequency

Center Freq
2.437000000 GHzCF Step
8.000000 MHz
Auto ManFreq Offset
0 Hz

11N40SISO/HCH



Frequency

Center Freq
2.452000000 GHzCF Step
8.000000 MHz
Auto ManFreq Offset
0 Hz

C.6 RF Conducted Spurious Emissions

Antenna 0

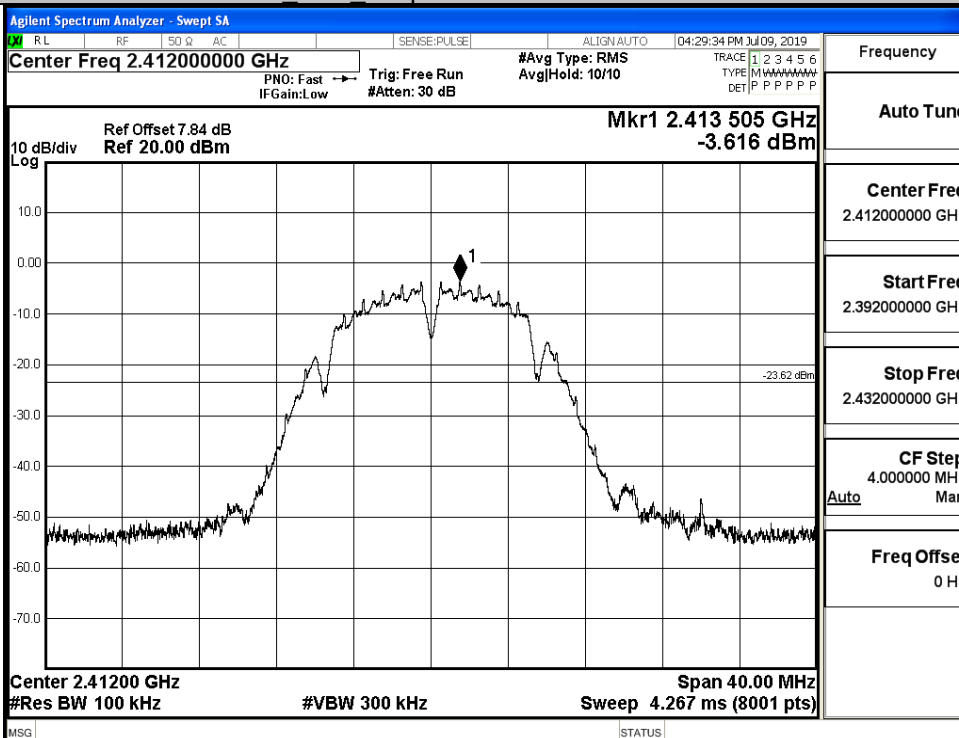
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-3.616	-43.679	-23.616	PASS
	MCH	-3.604	-44.340	-23.604	PASS
	HCH	-4.374	-43.143	-24.374	PASS
11G	LCH	-6.809	-43.243	-26.809	PASS
	MCH	-6.395	-43.189	-26.395	PASS
	HCH	-6.17	-44.502	-26.170	PASS
11N20 SISO	LCH	-7.128	-44.288	-27.128	PASS
	MCH	-5.77	-43.478	-25.770	PASS
	HCH	-5.964	-44.415	-25.964	PASS
11N40 SISO	LCH	-10.164	-44.431	-30.164	PASS
	MCH	-10.365	-44.647	-30.365	PASS
	HCH	-10.155	-44.224	-30.155	PASS

Antenna 1

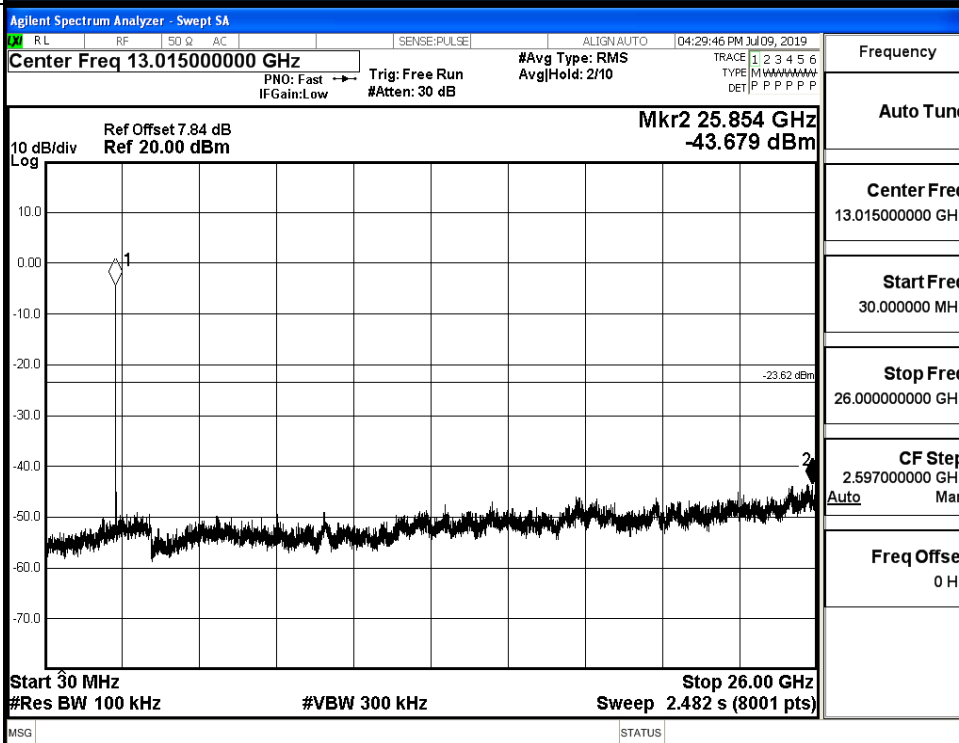
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-2.091	-43.832	-22.091	PASS
	MCH	-2.137	-44.129	-22.137	PASS
	HCH	-2.319	-41.099	-22.319	PASS
11G	LCH	-6.615	-44.018	-26.615	PASS
	MCH	-6.249	-44.012	-26.249	PASS
	HCH	-5.869	-44.321	-25.869	PASS
11N20 SISO	LCH	-7.781	-43.649	-27.781	PASS
	MCH	-5.665	-43.816	-25.665	PASS
	HCH	-5.794	-44.044	-25.794	PASS
11N40 SISO	LCH	-7.481	-41.934	-27.481	PASS
	MCH	-8.688	-43.918	-28.688	PASS
	HCH	-7.011	-44.298	-27.011	PASS

11B LCH Graphs Ant 0

Pref/11B/LCH

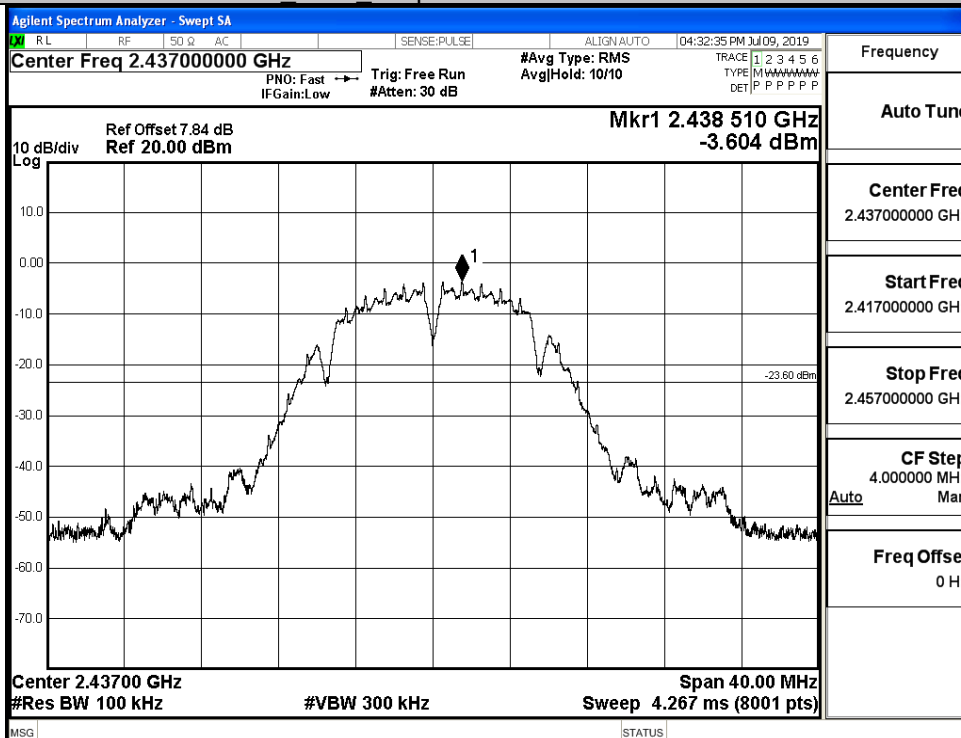


Puw/11B/LCH

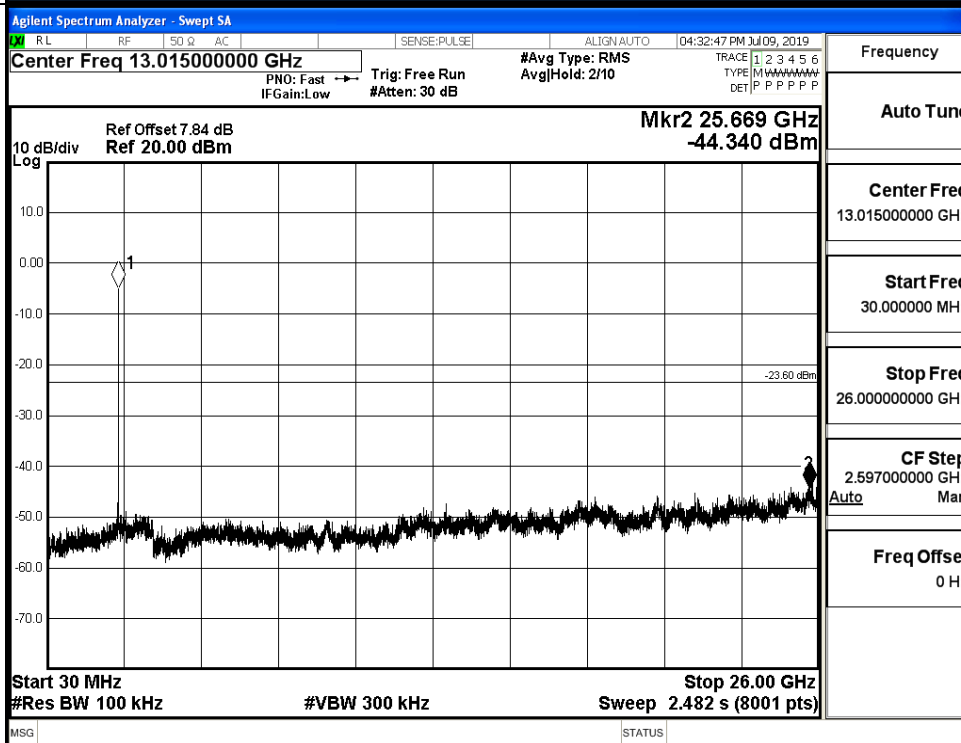


11B MCH Graphs Ant 0

Pref/11B/MCH

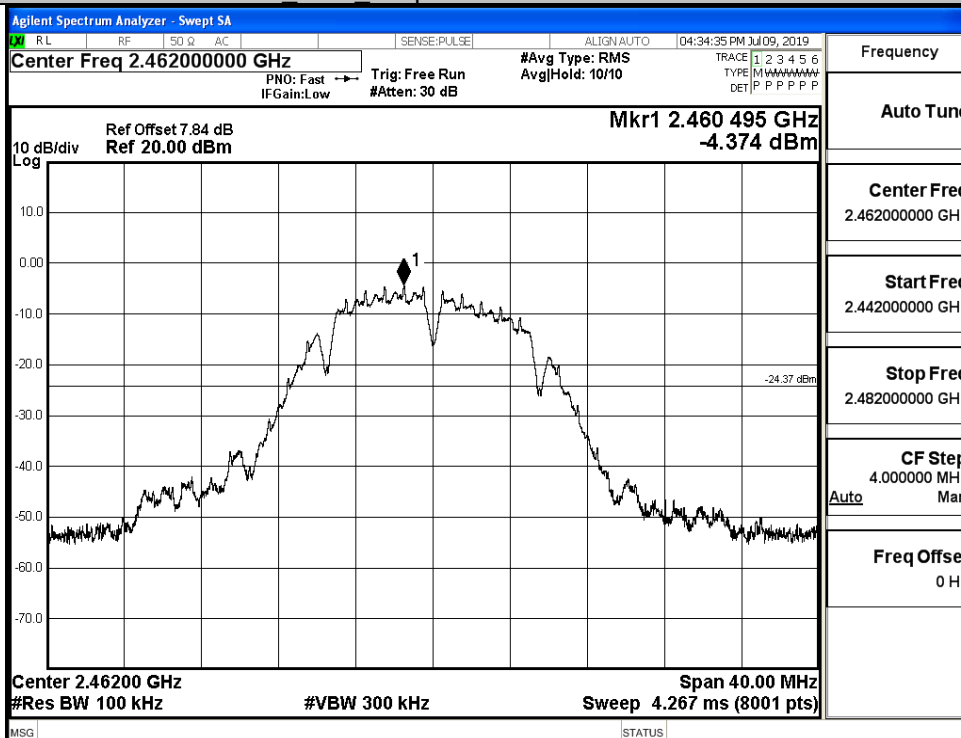


Puw/11B/MCH

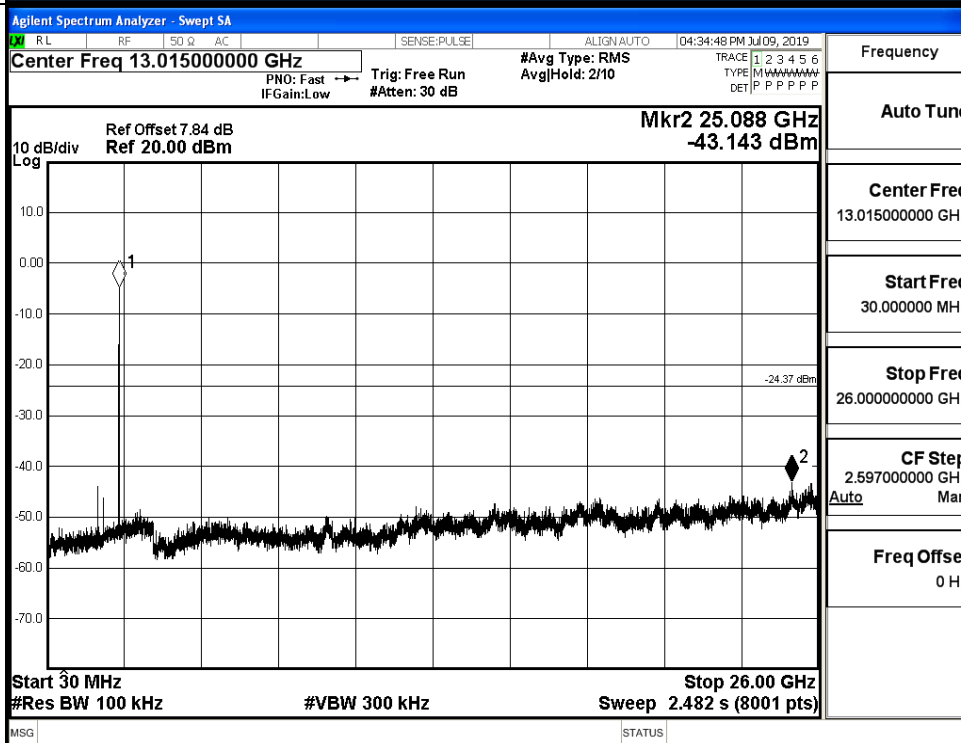


11B HCH Graphs Ant 0

Pref/11B/HCH

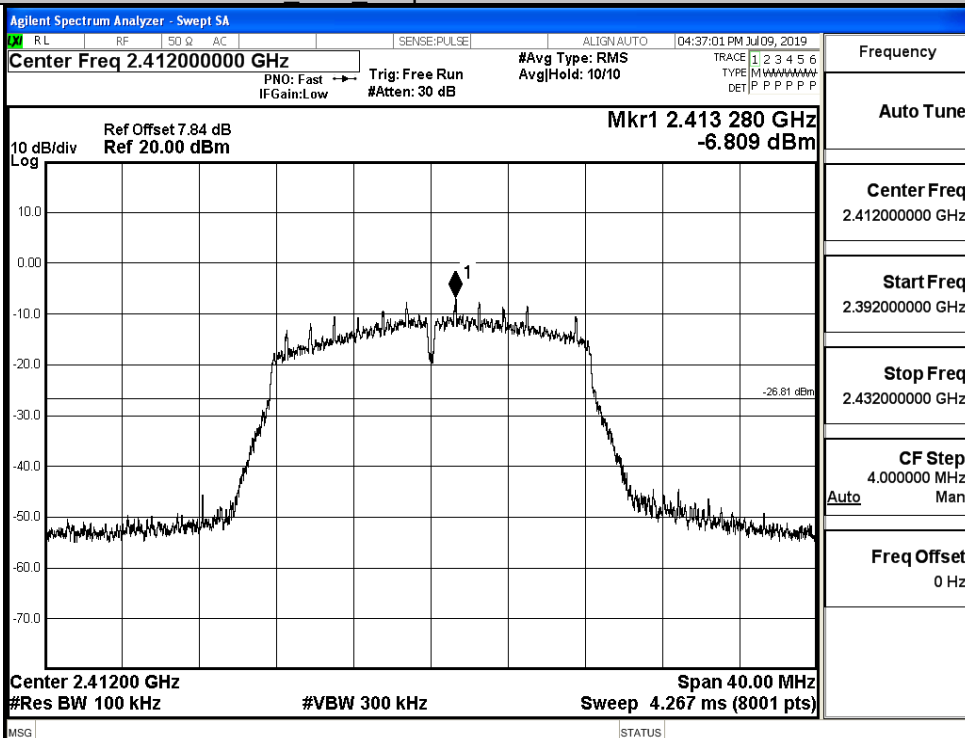


Puw/11B/HCH

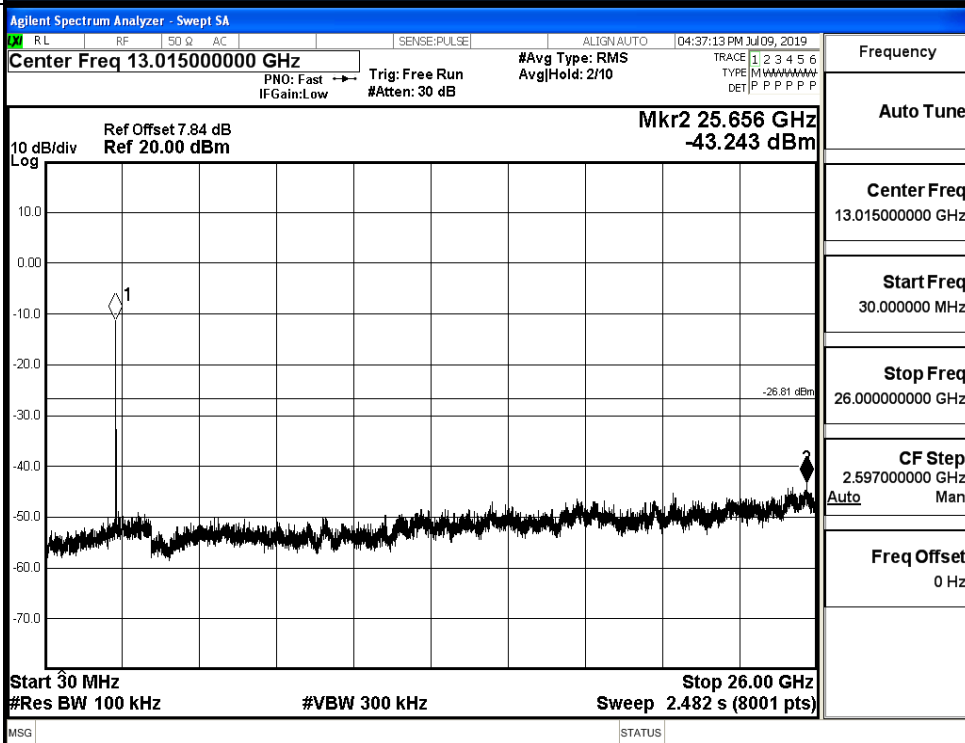


11G LCH Graphs Ant 0

Pref/11G/LCH

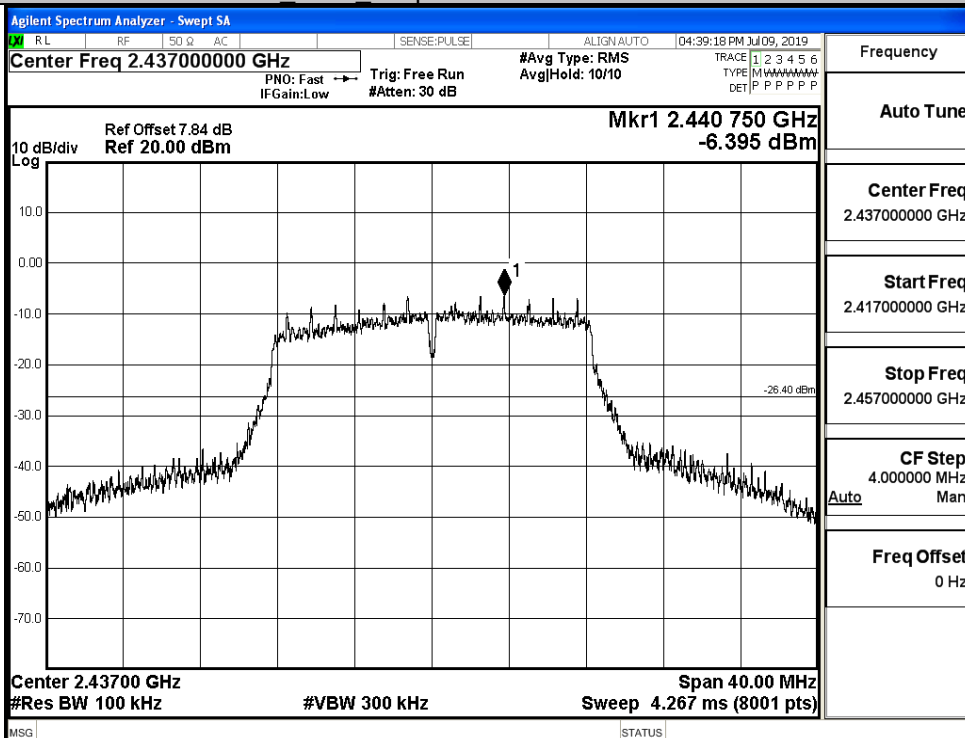


Puw/11G/LCH

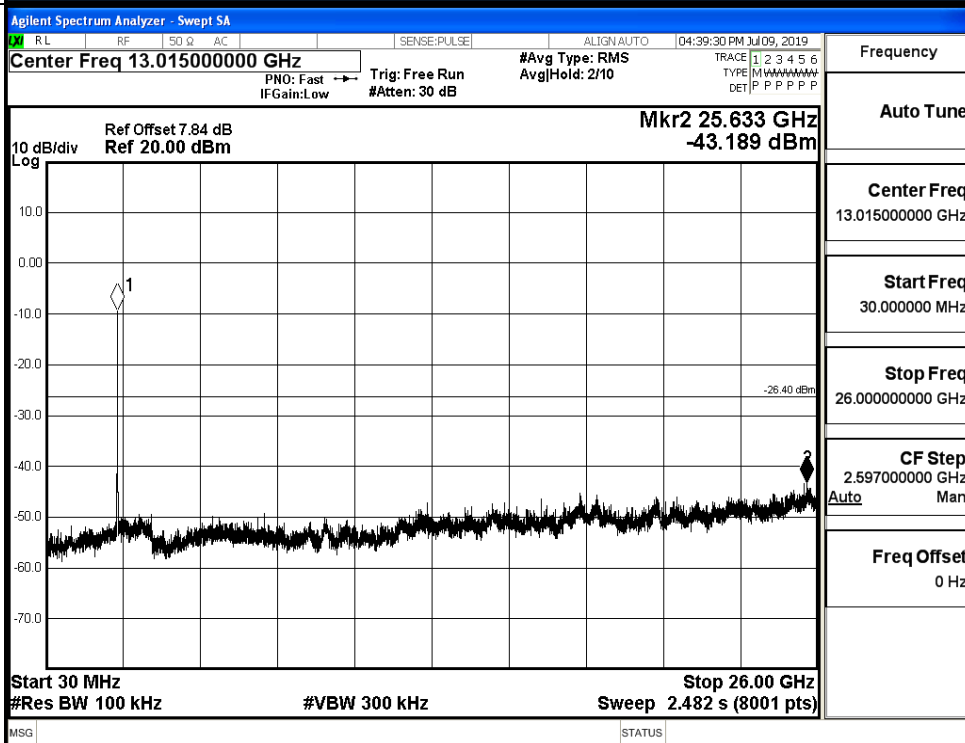


11G MCH Graphs Ant 0

Pref/11G/MCH

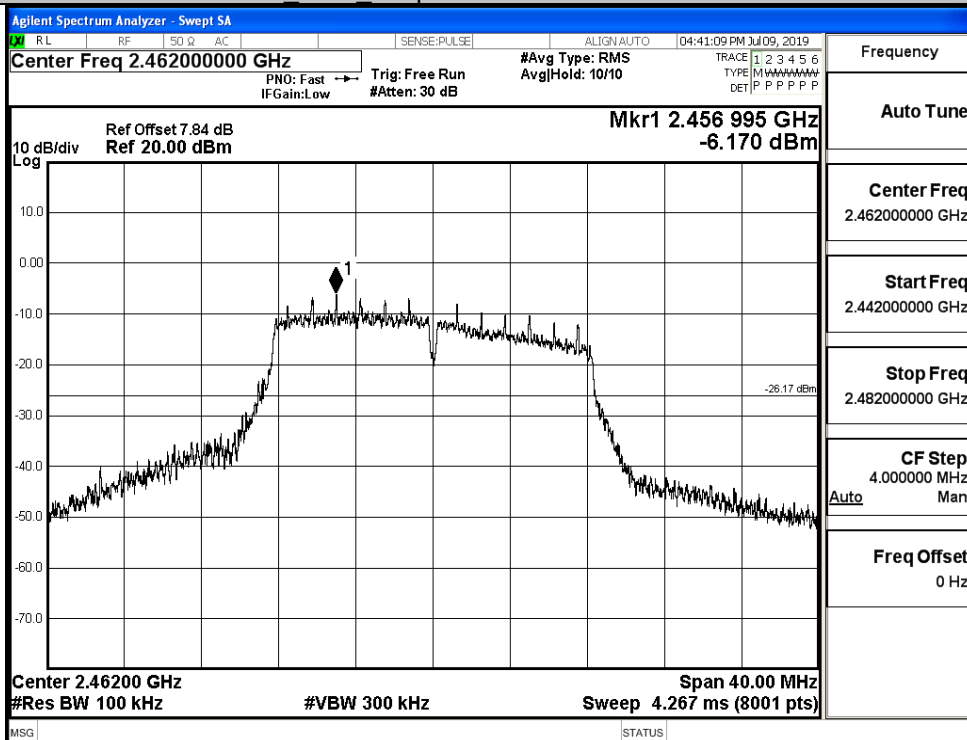


Puw/11G/MCH

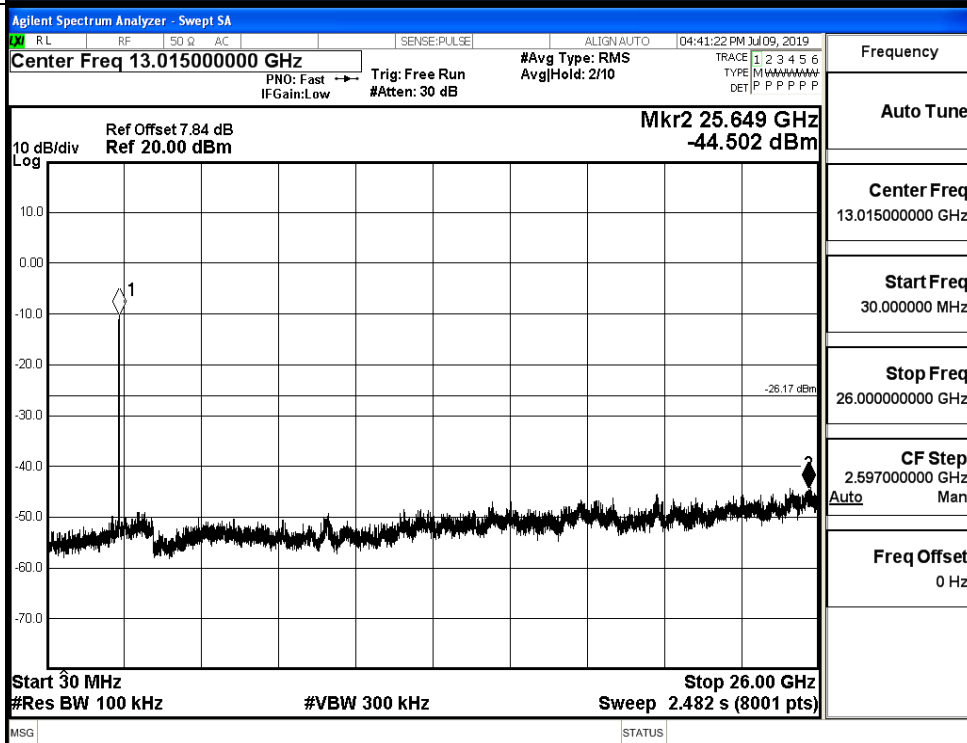


11G HCH Graphs Ant 0

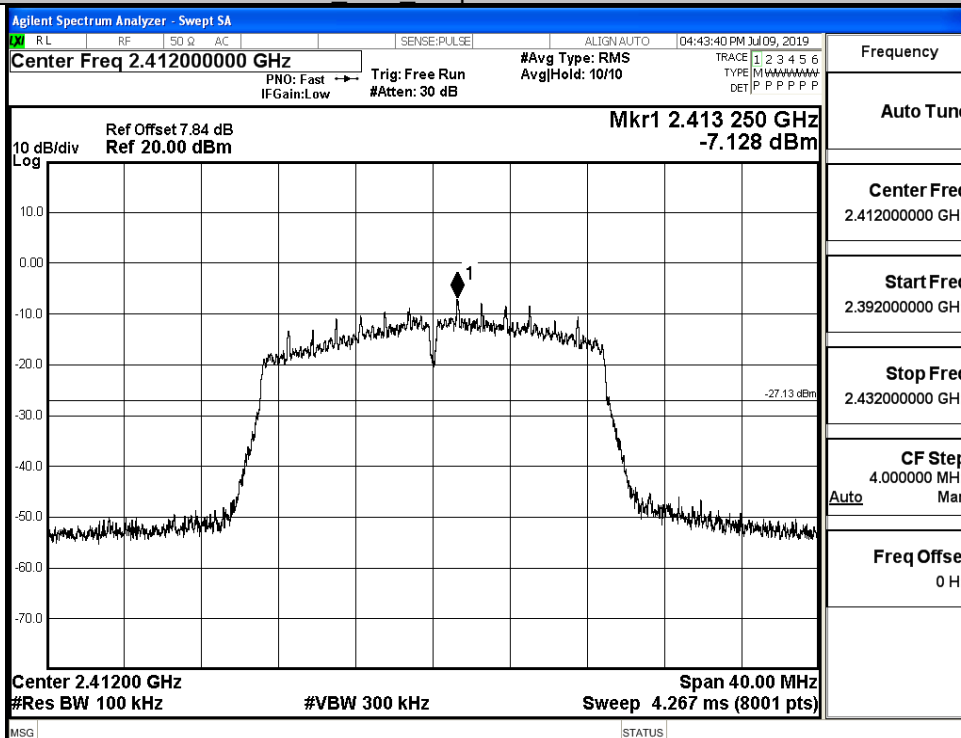
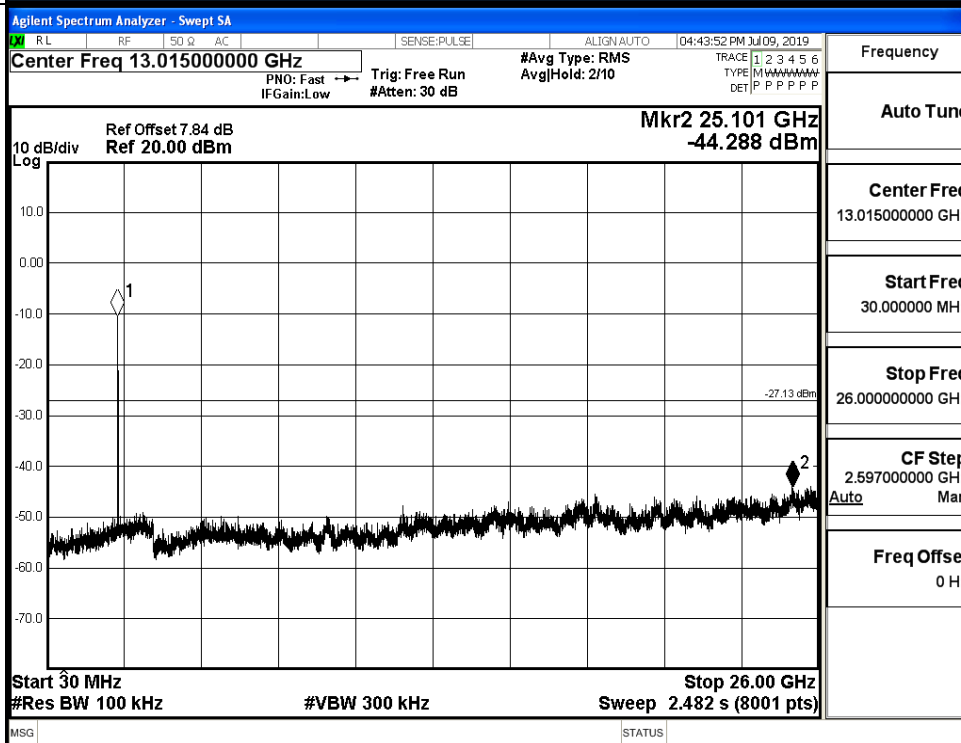
Pref/11G/HCH



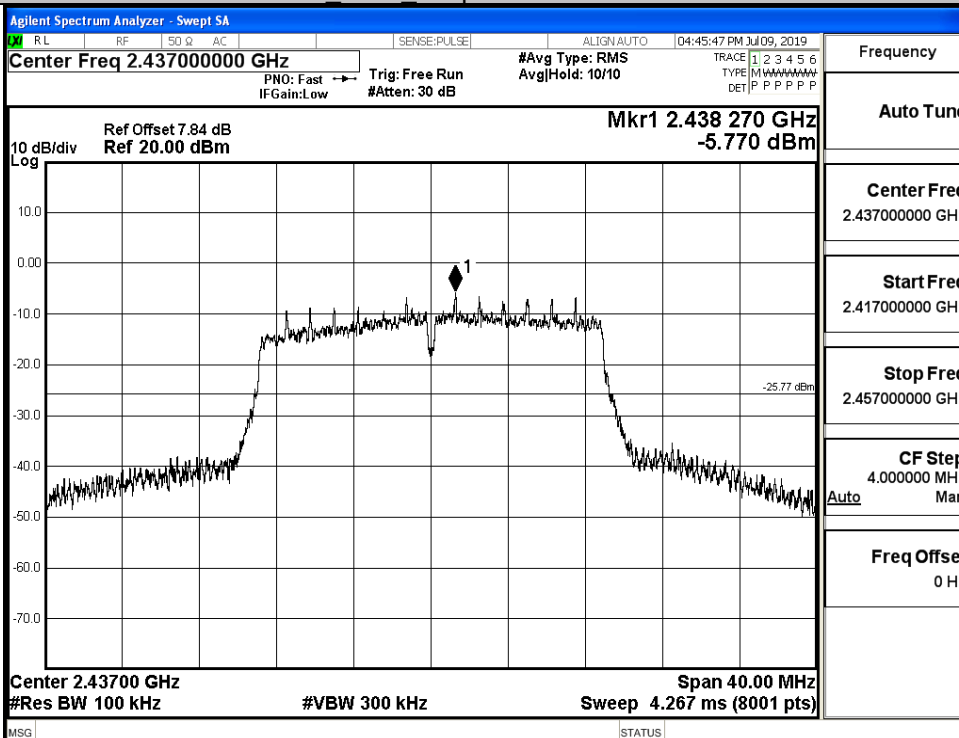
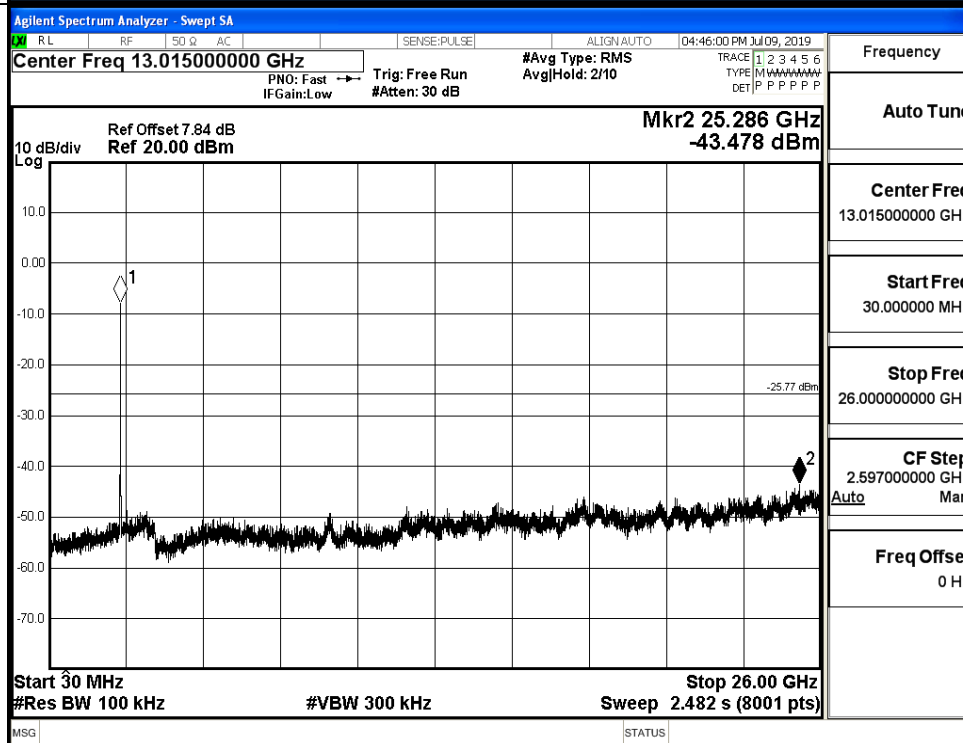
Puw/11G/HCH



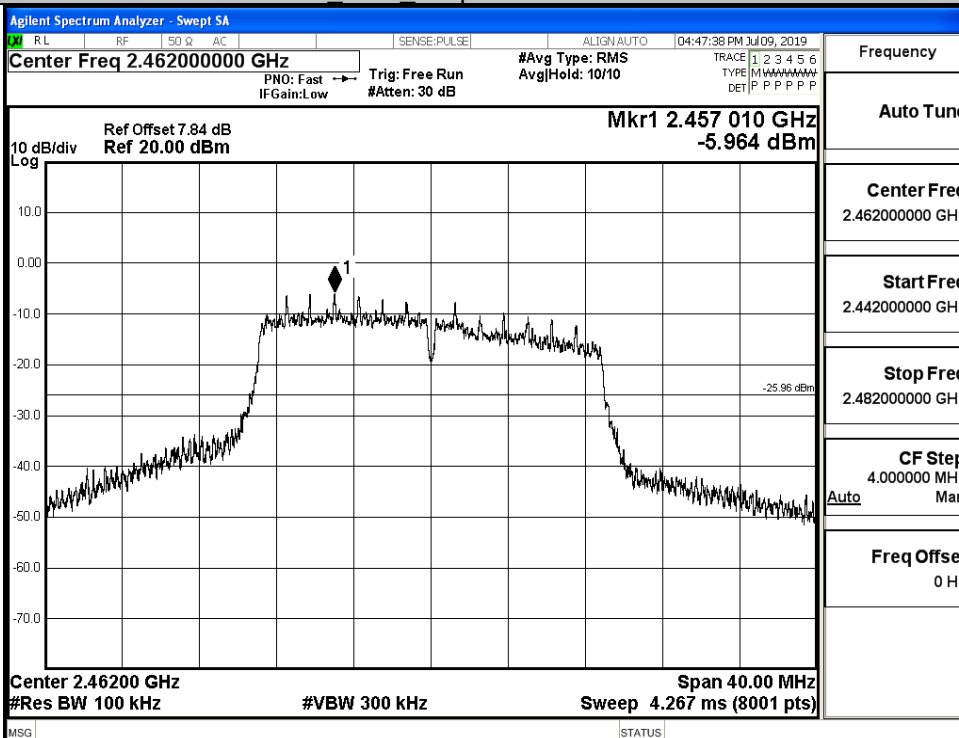
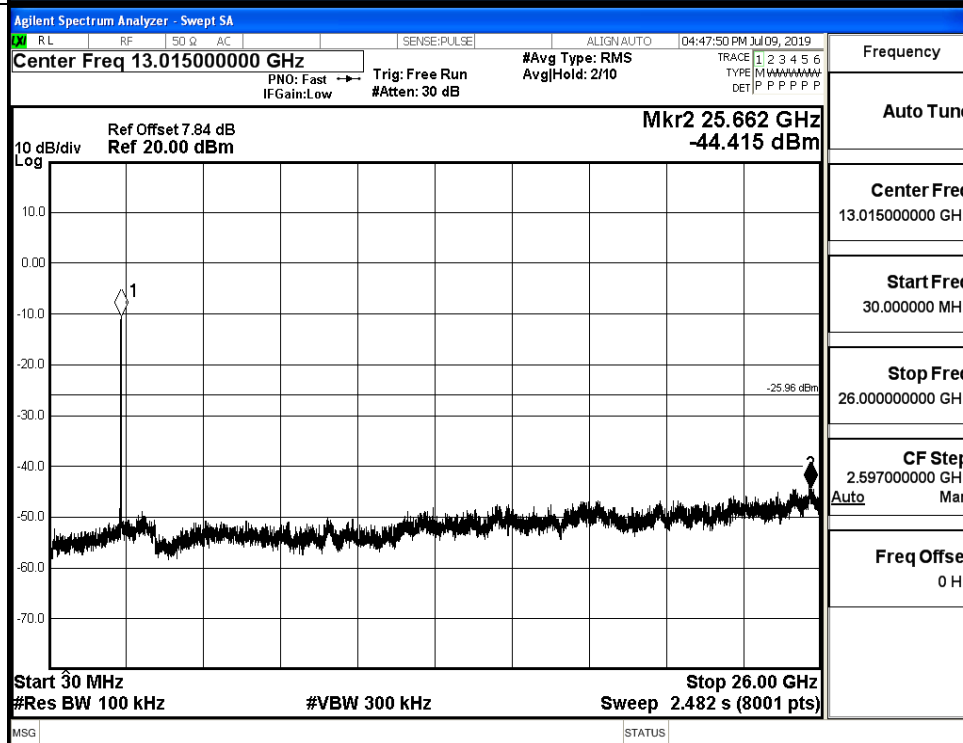
11N20SISO LCH Graphs Ant 0

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

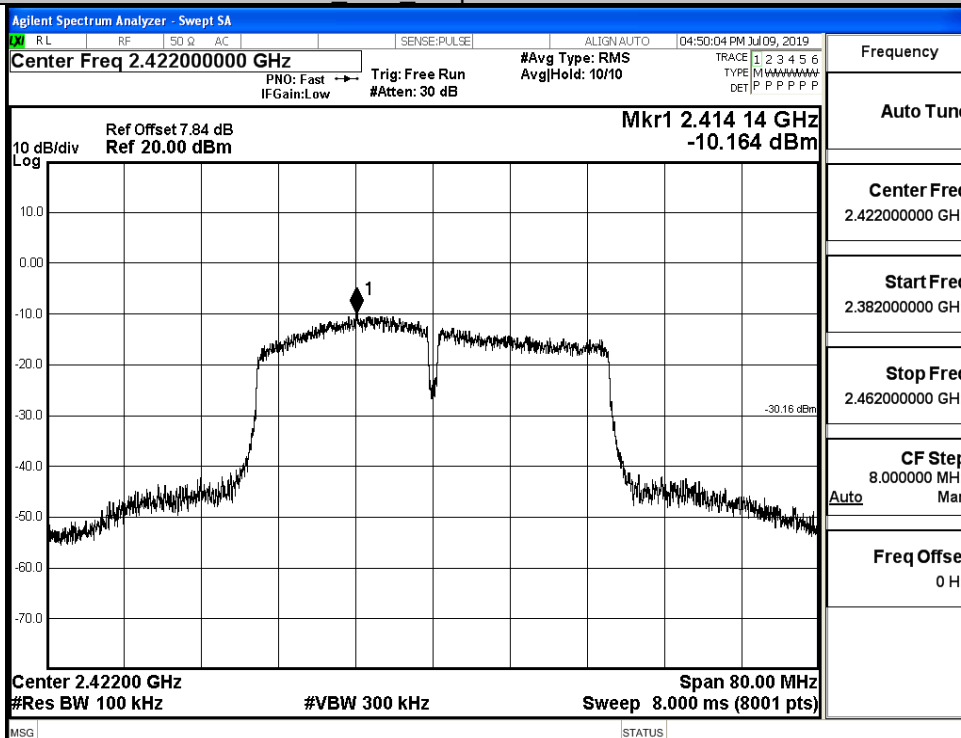
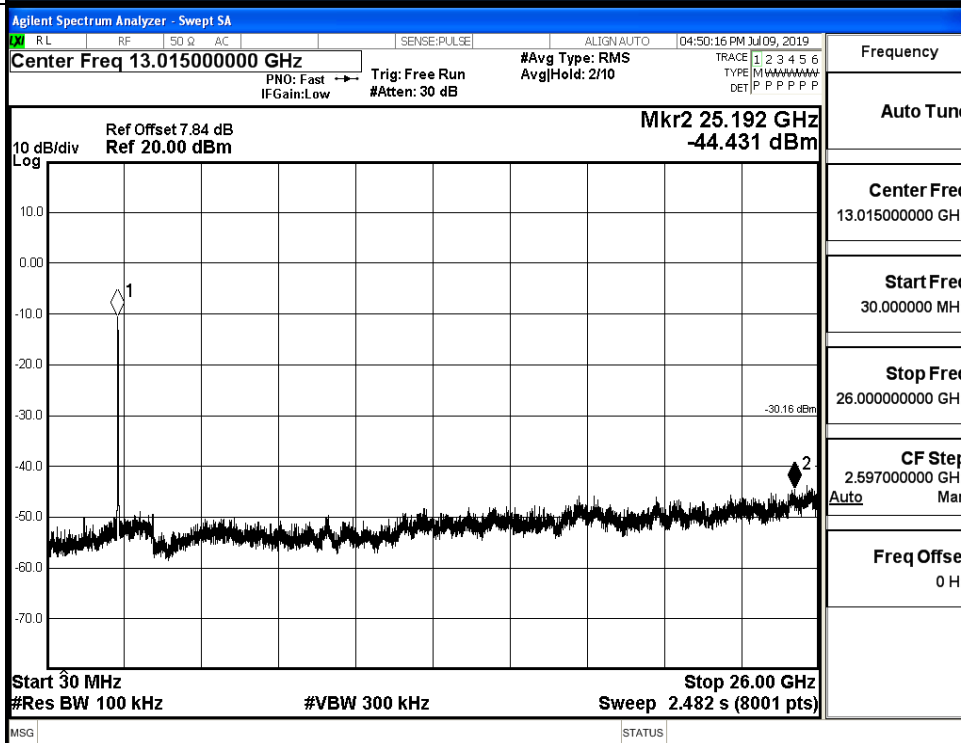
11N20SISO MCH Graphs Ant 0

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

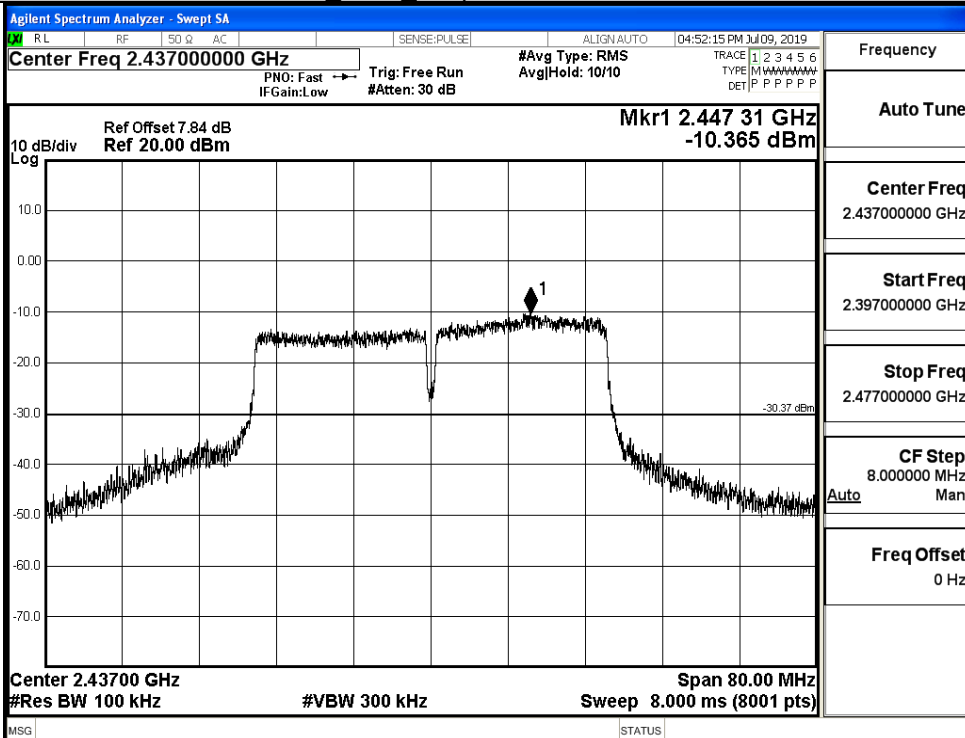
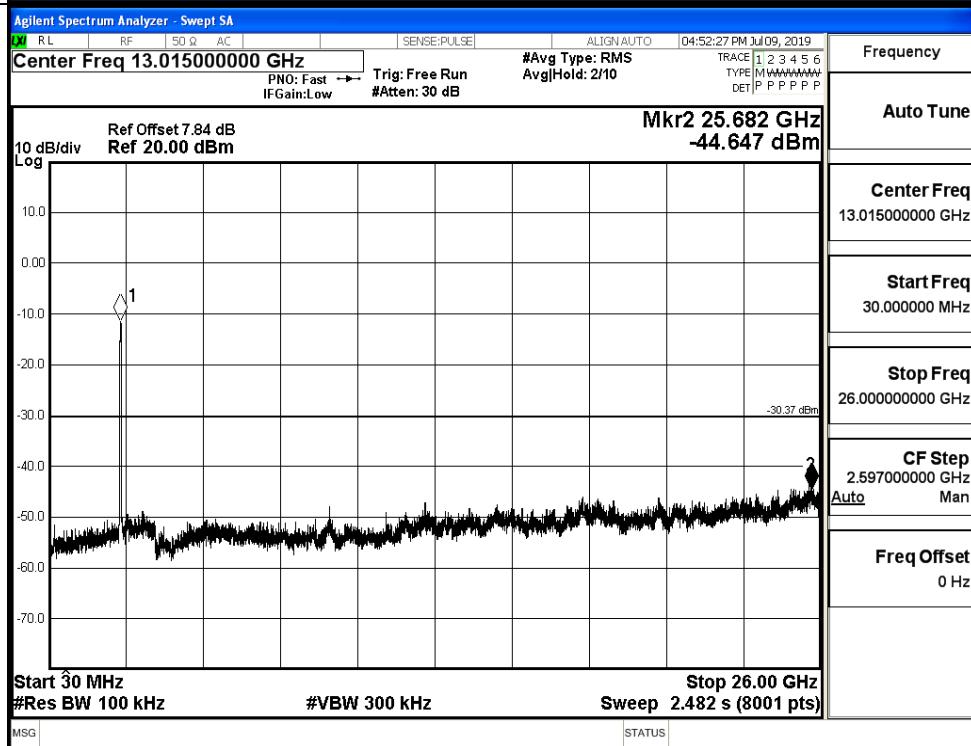
11N20SISO HCH Graphs Ant 0

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

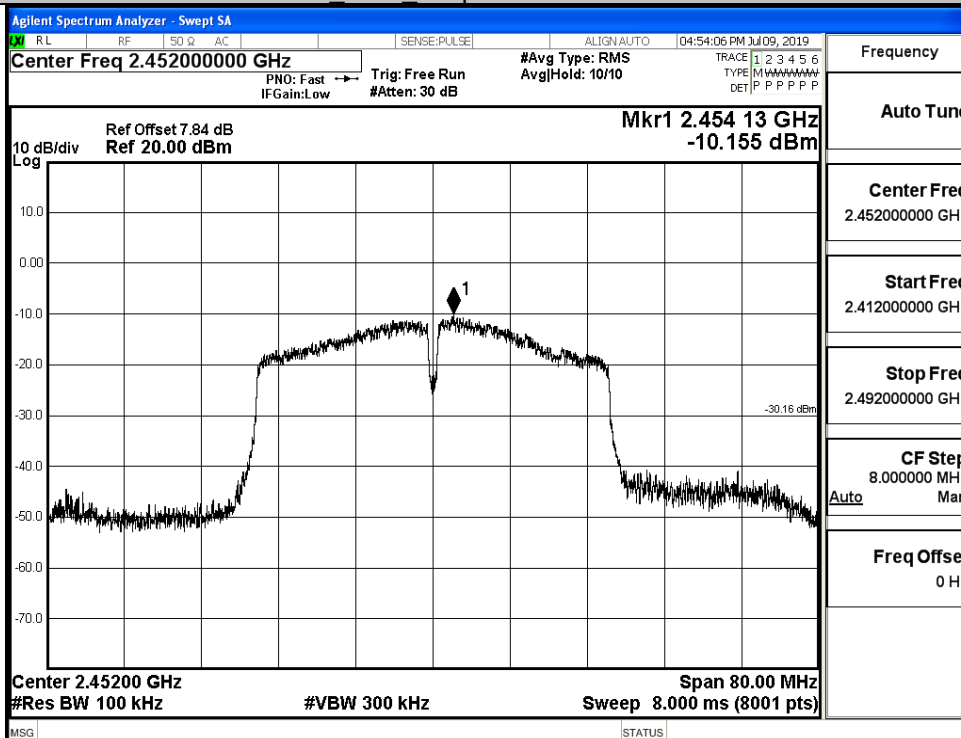
11N40SISO LCH Graphs Ant 0

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

11N40SISO MCH Graphs Ant 0

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

11N40SISO HCH Graphs Ant 0

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