Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Smart phone
Trade Mark: N/A
Test Model: Smooth 5.0

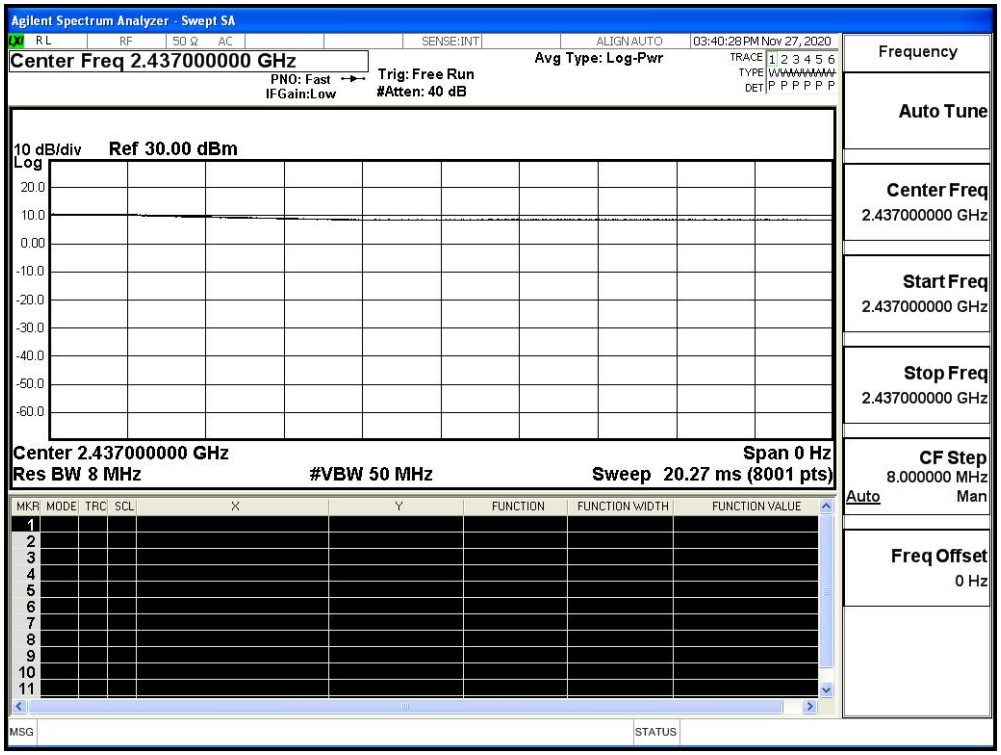
Environmental Conditions

Temperature:	22.3° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

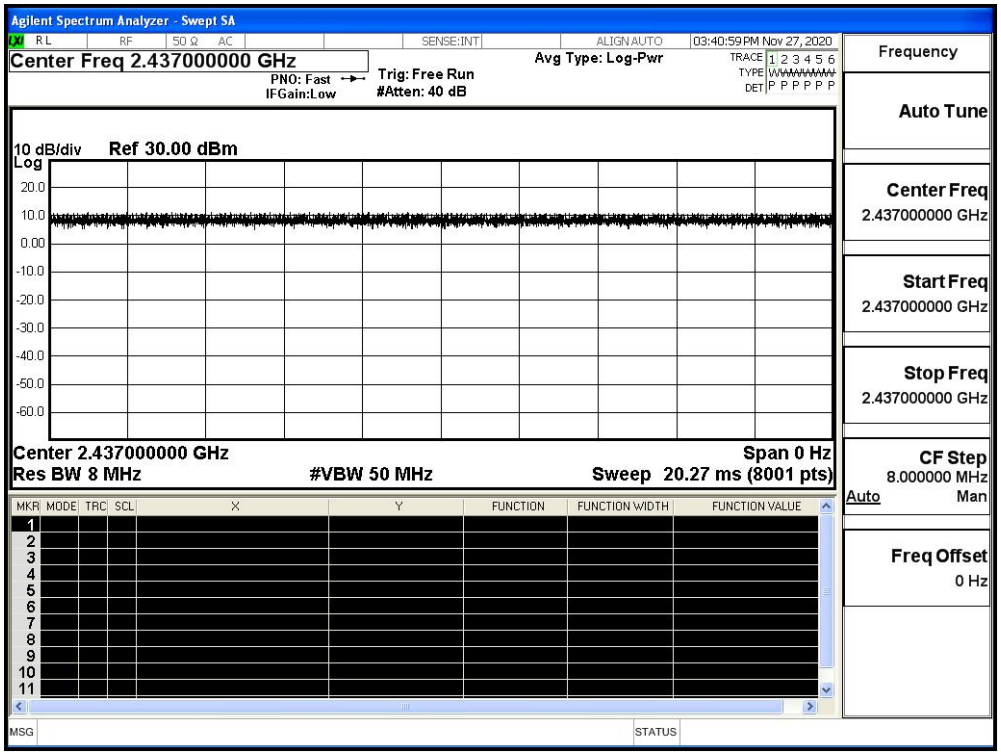
C.1 Duty Cycle

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

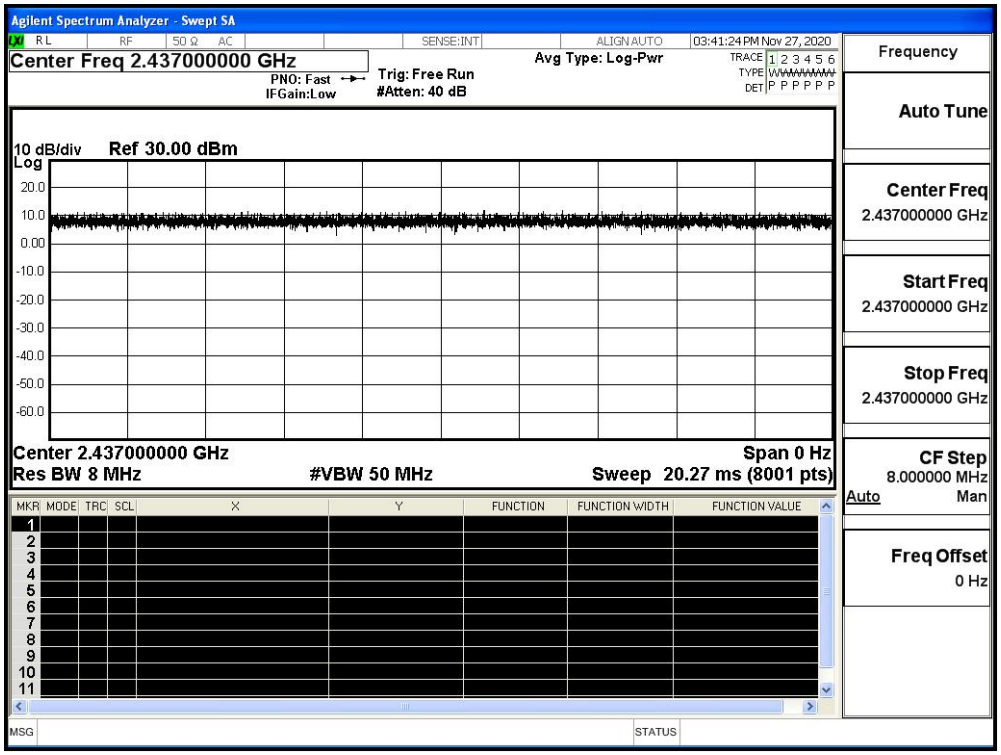
Duty Cycle_11B_2437_Ant1



Duty Cycle_11G_2437_Ant1

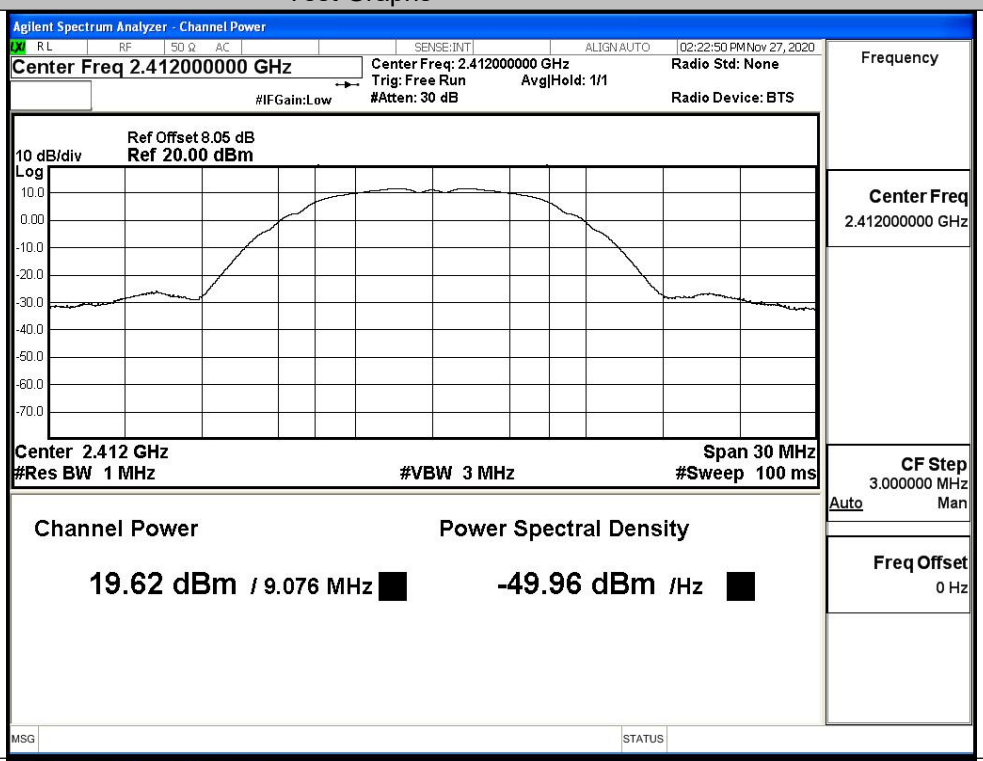
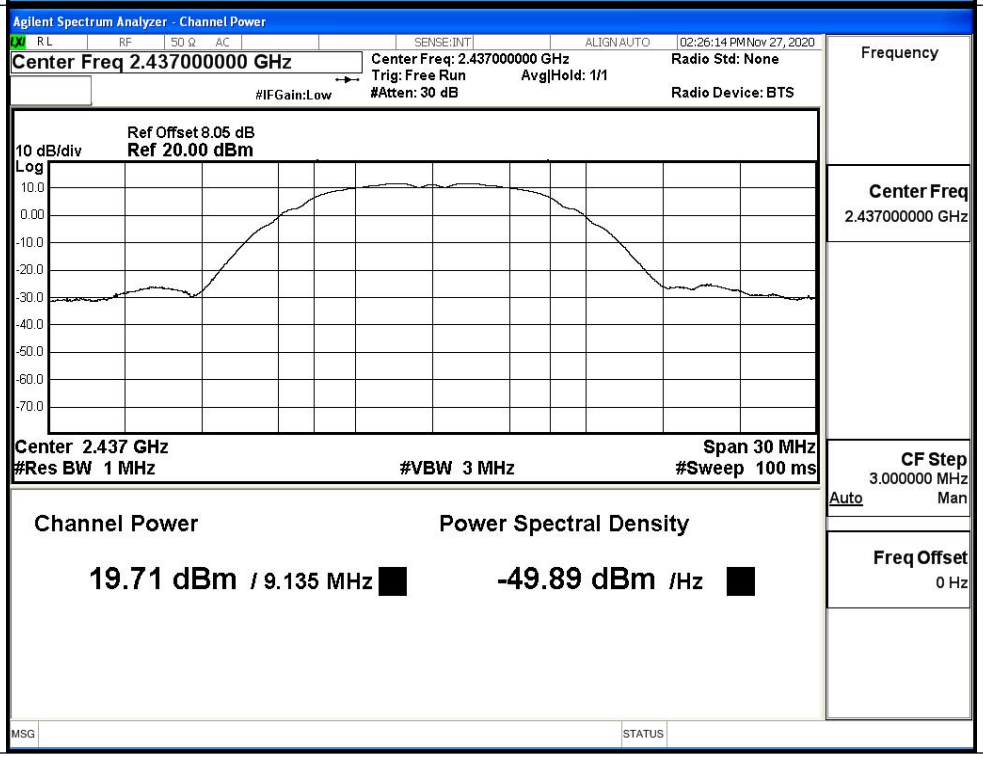


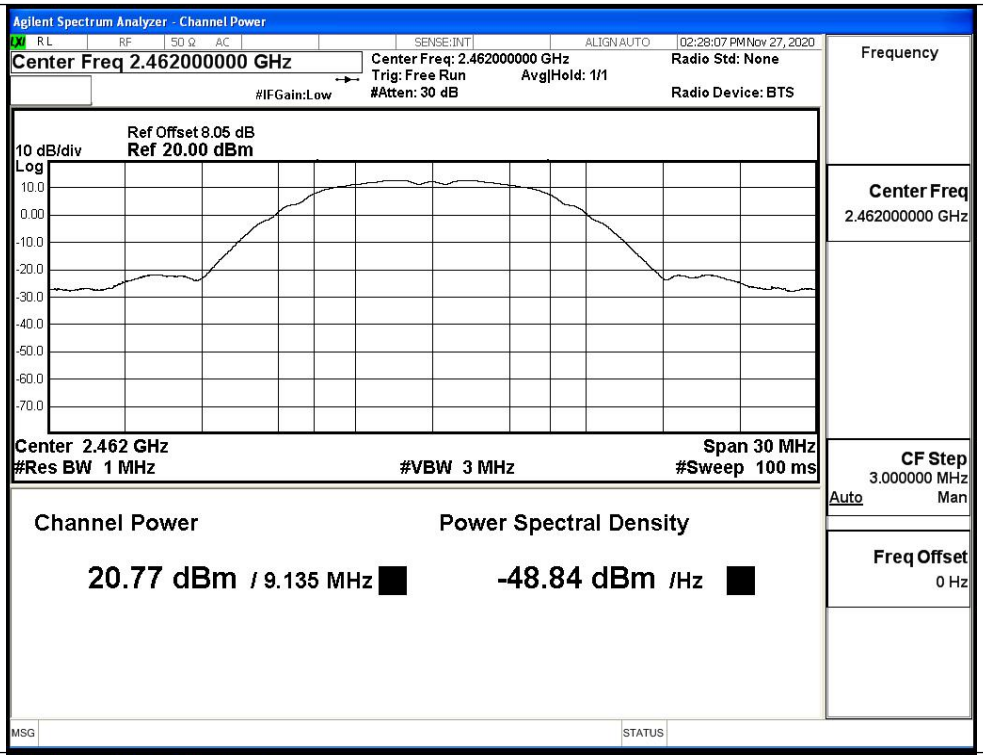
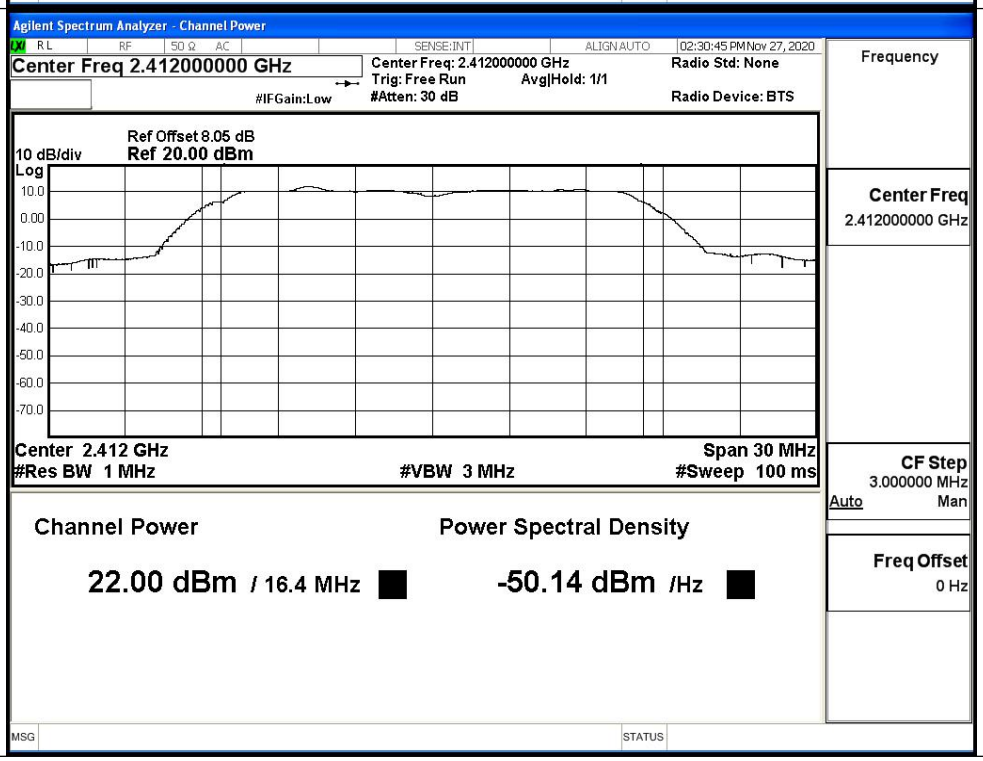
Duty Cycle_11N20SISO_2437_Ant1

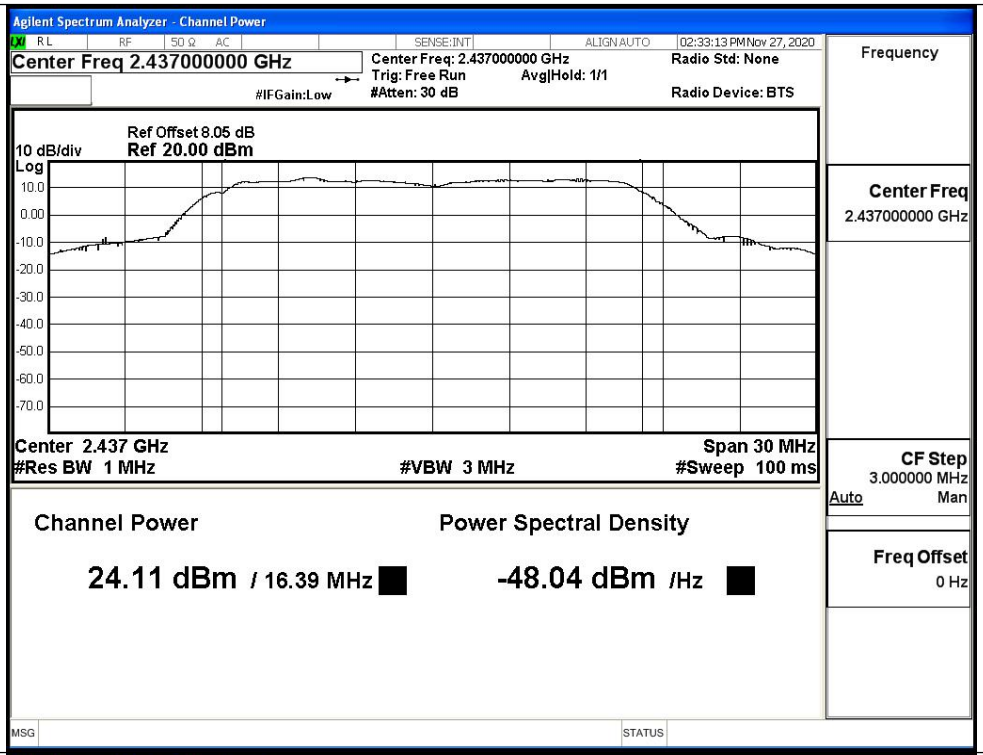
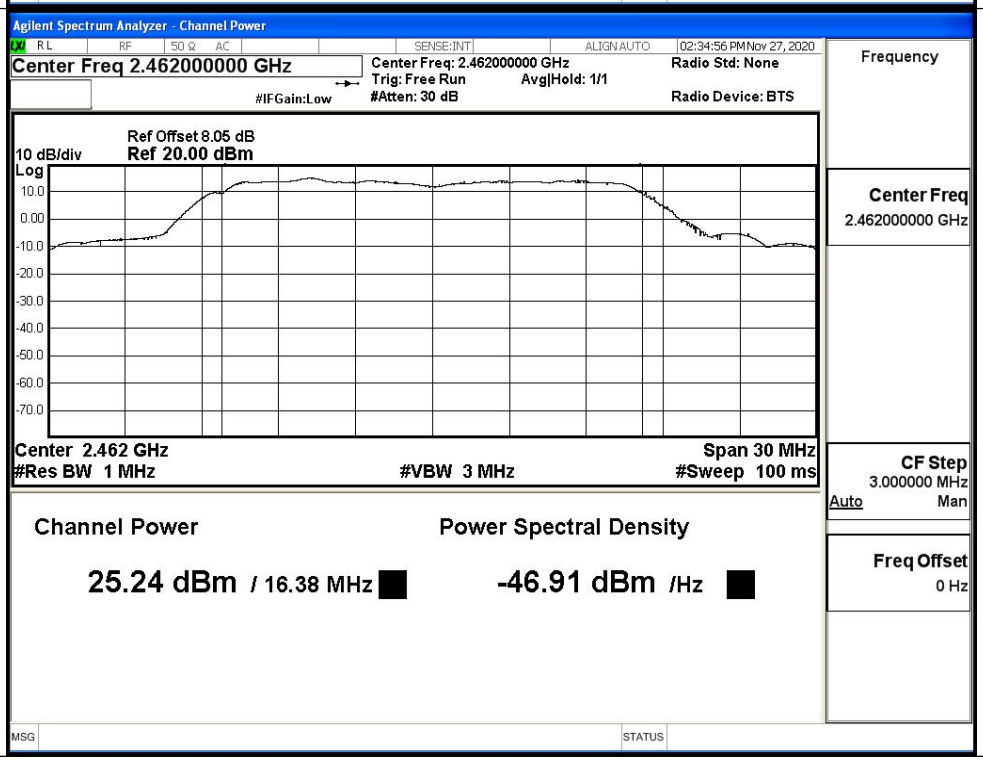


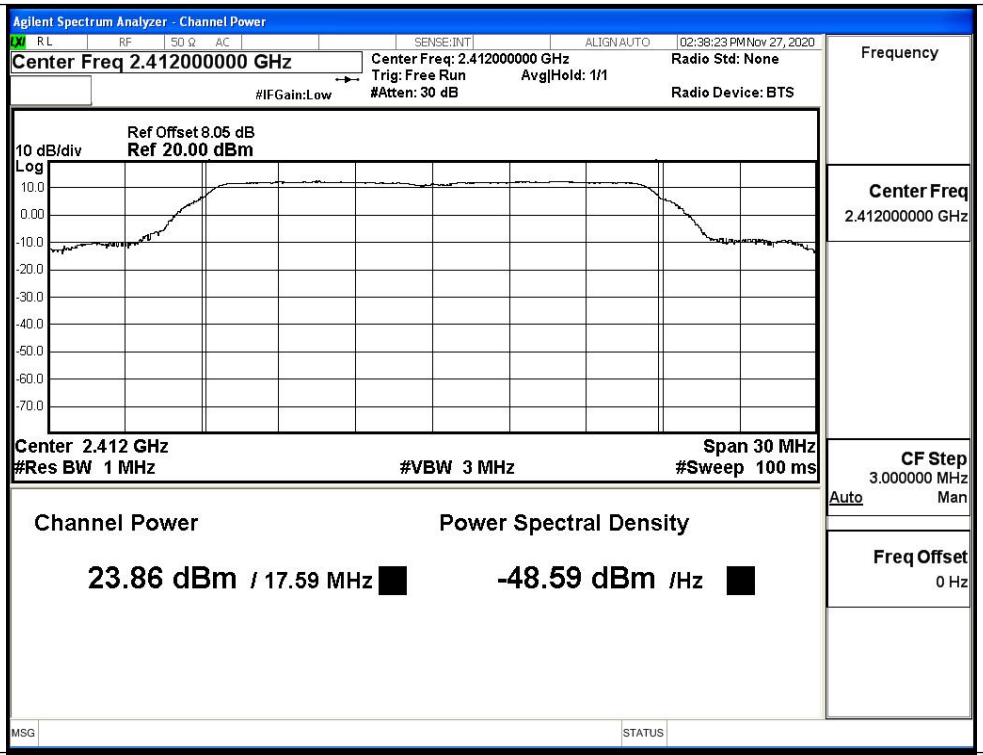
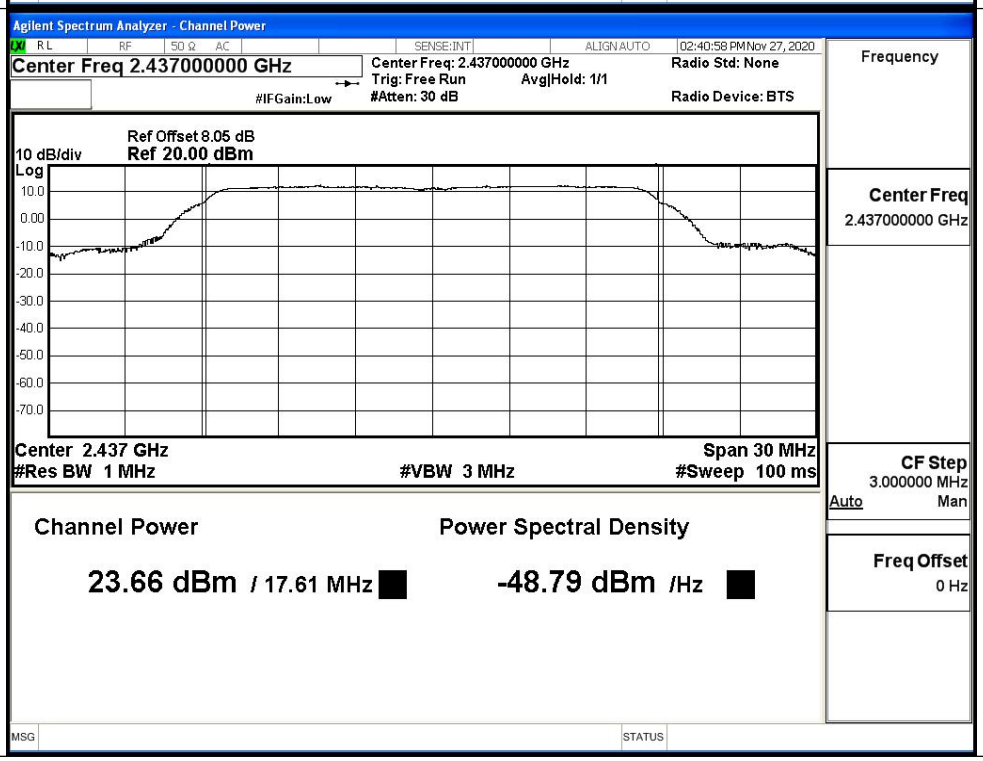
C.2 Maximum Conducted Output Power

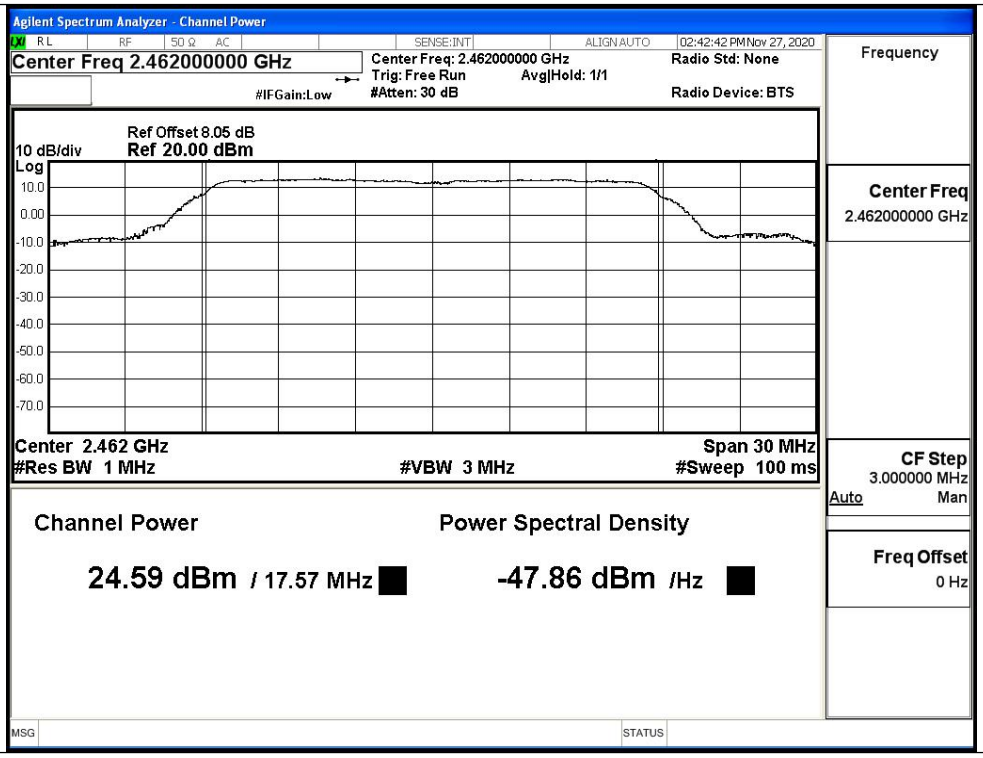
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	19.62	30	PASS
	MCH	19.71	30	PASS
	HCH	20.77	30	PASS
11G	LCH	22.00	30	PASS
	MCH	24.11	30	PASS
	HCH	25.24	30	PASS
11N20SISO	LCH	23.86	30	PASS
	MCH	23.66	30	PASS
	HCH	24.59	30	PASS

Test Graphs		
11B/LCH		
11B/MCH		

11B/HCH		
11G/LCH		

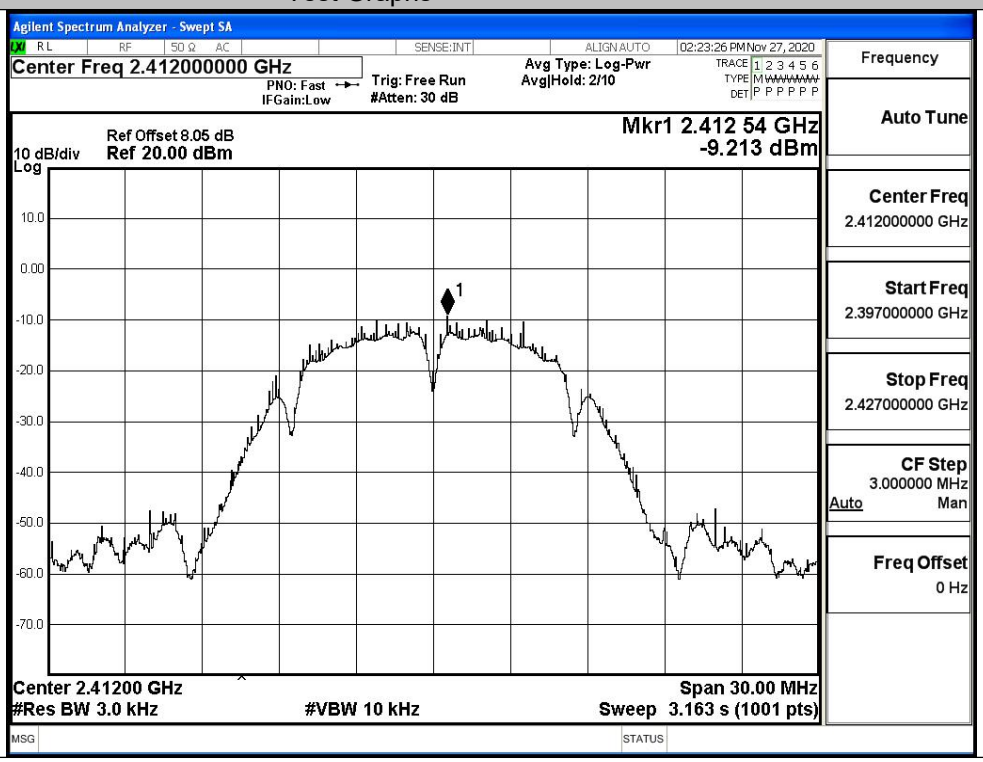
11G/MCH	
11G/HCH	

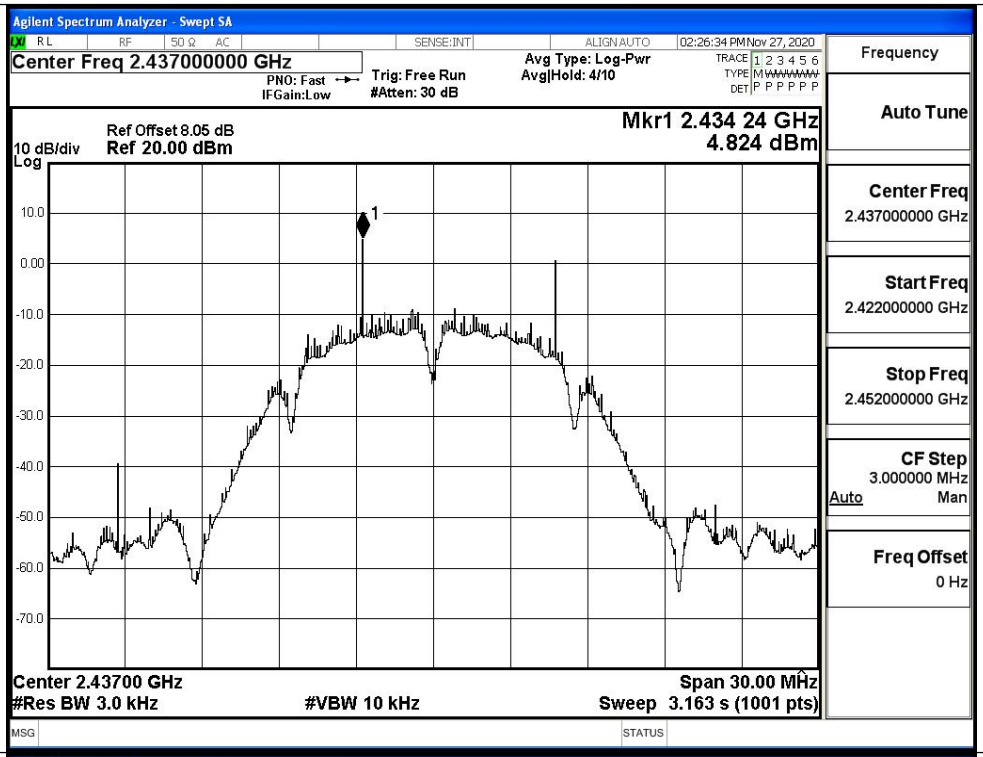
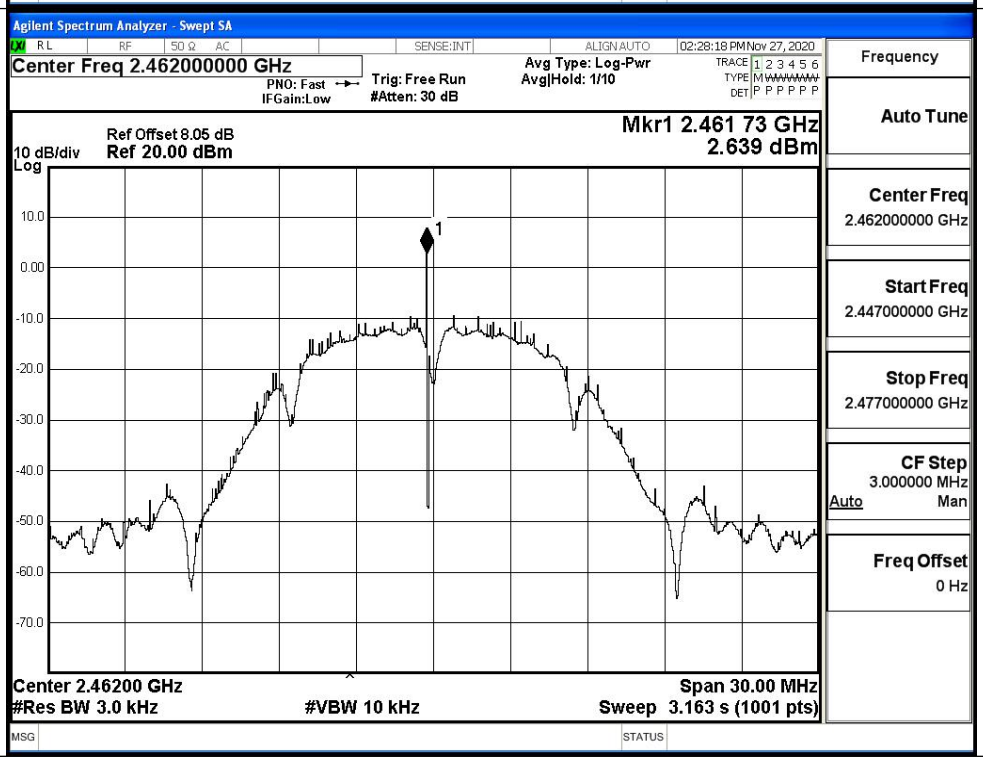
11N20SISO/LCH		
11N20SISO/MCH		

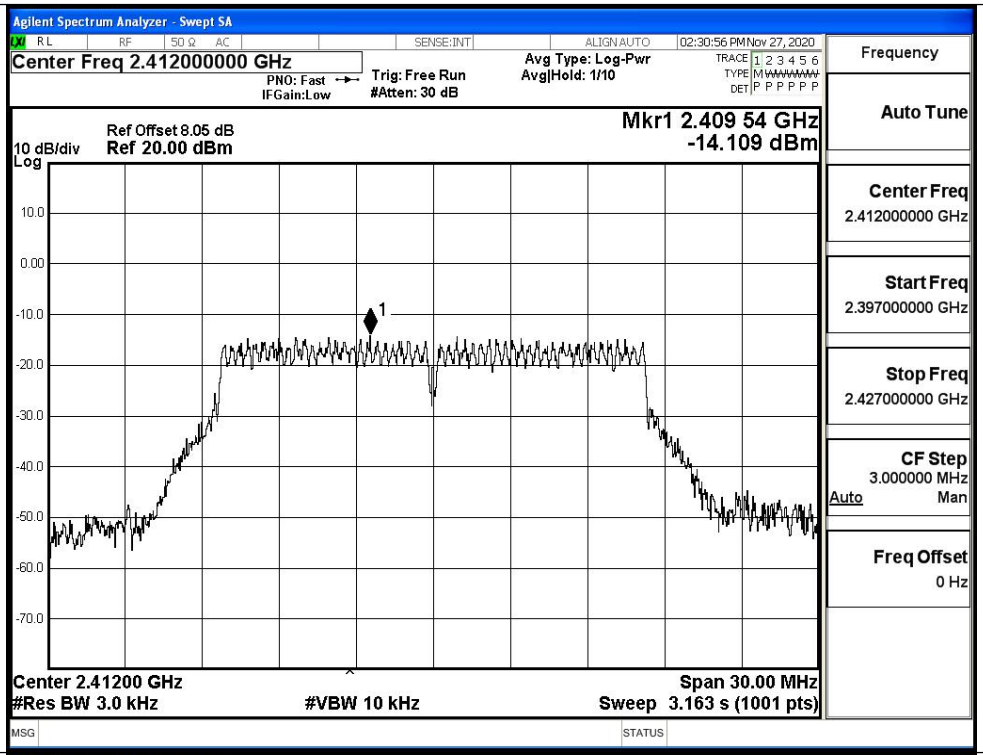
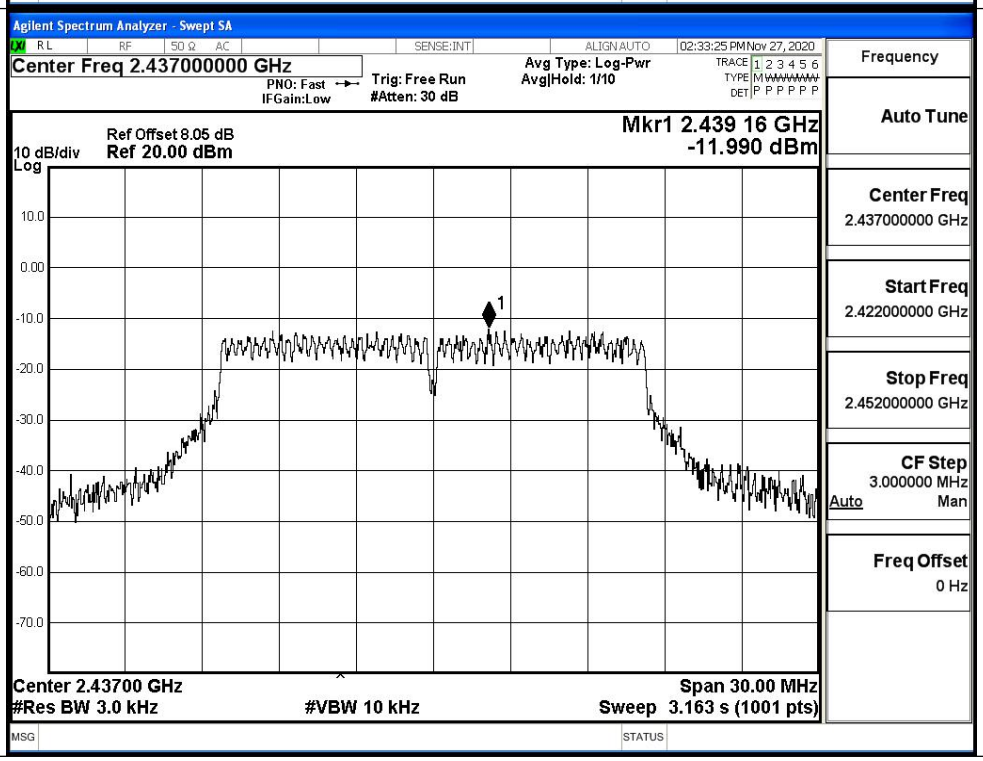
11N20SISO/HCH		

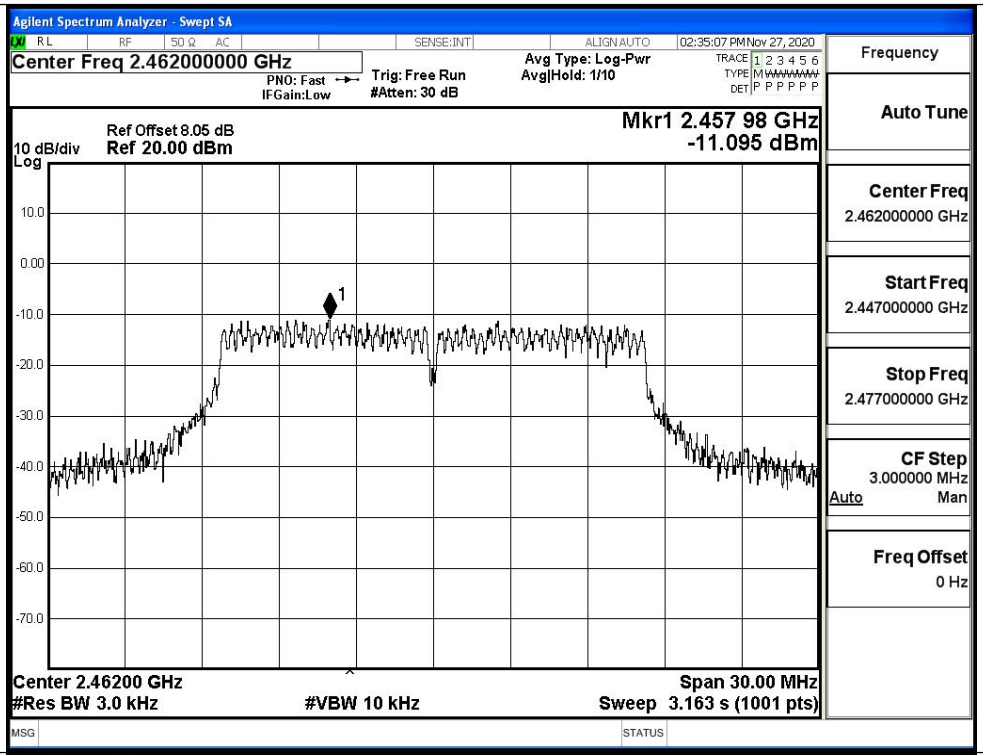
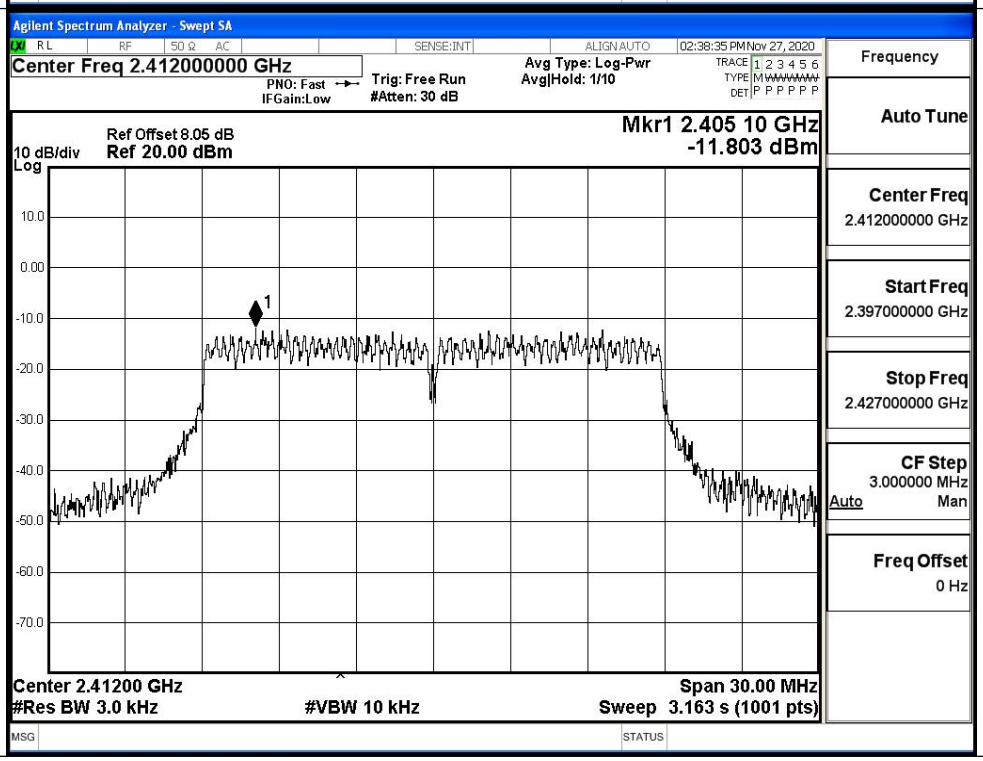
C.3 Maximum Power Spectral Density

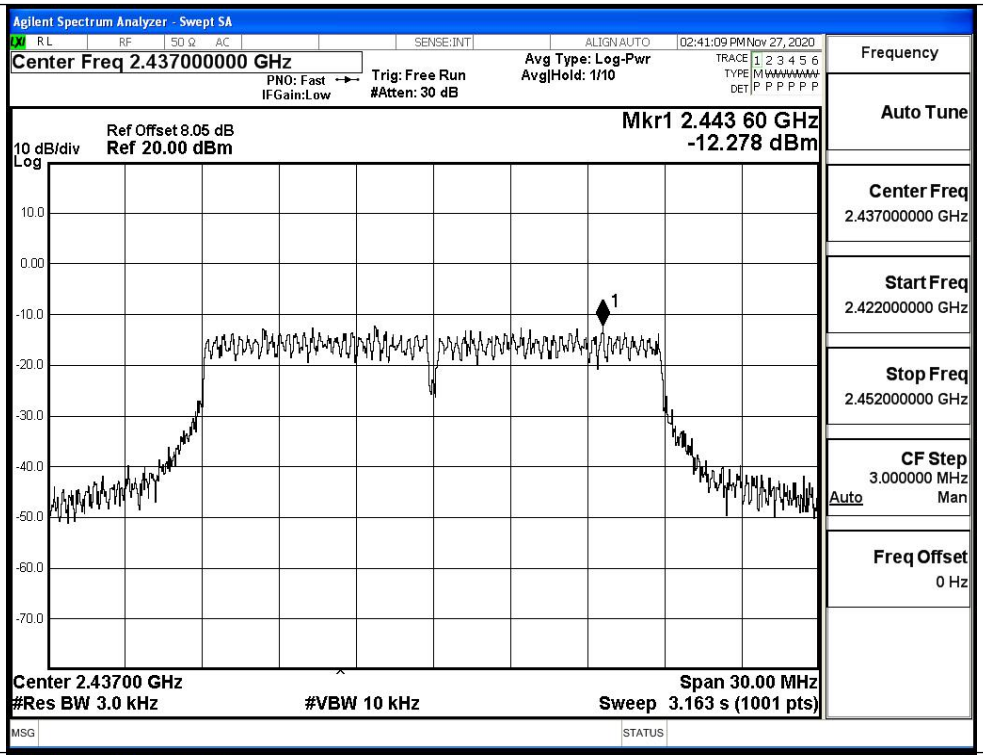
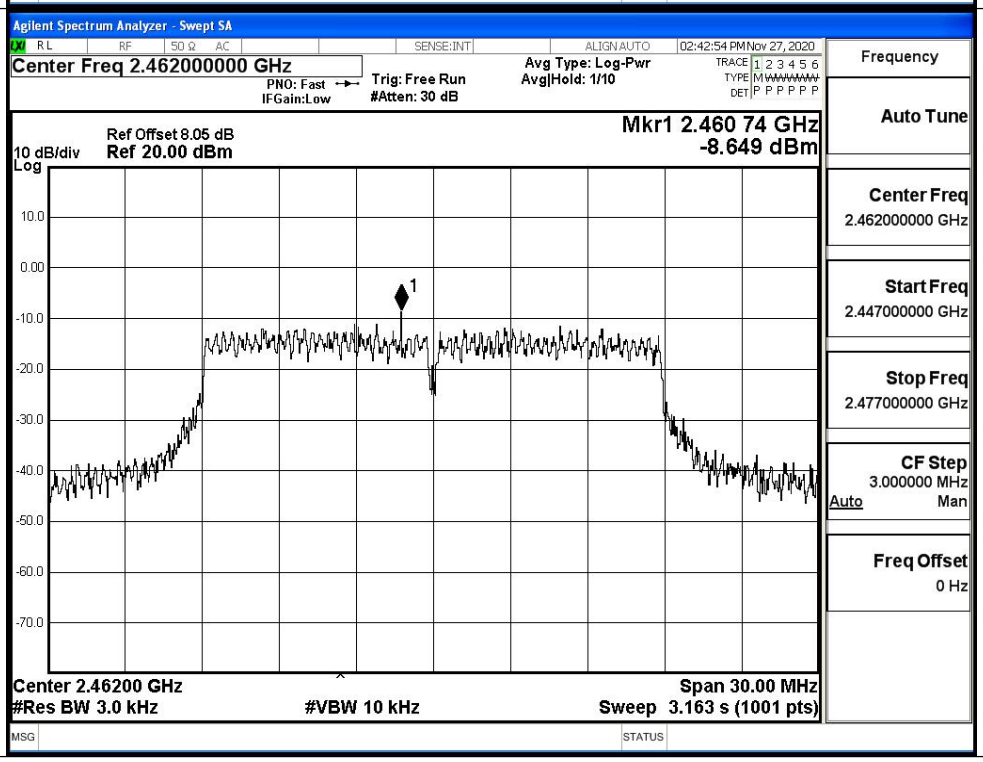
Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-9.213	8	PASS
	MCH	4.824	8	PASS
	HCH	2.639	8	PASS
11G	LCH	-14.109	8	PASS
	MCH	-11.990	8	PASS
	HCH	-11.095	8	PASS
11N20SISO	LCH	-11.803	8	PASS
	MCH	-12.278	8	PASS
	HCH	-8.649	8	PASS

Test Graphs		
11B/LCH		

11B/MCH		
11B/HCH		

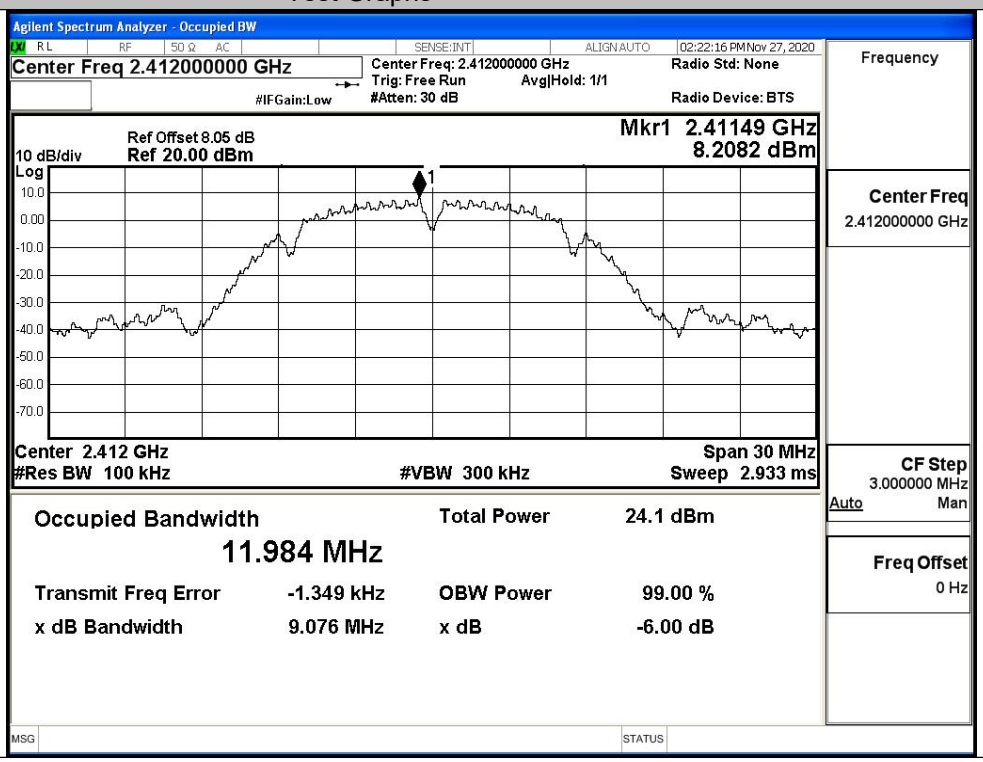
11G/LCH		
11G/MCH		

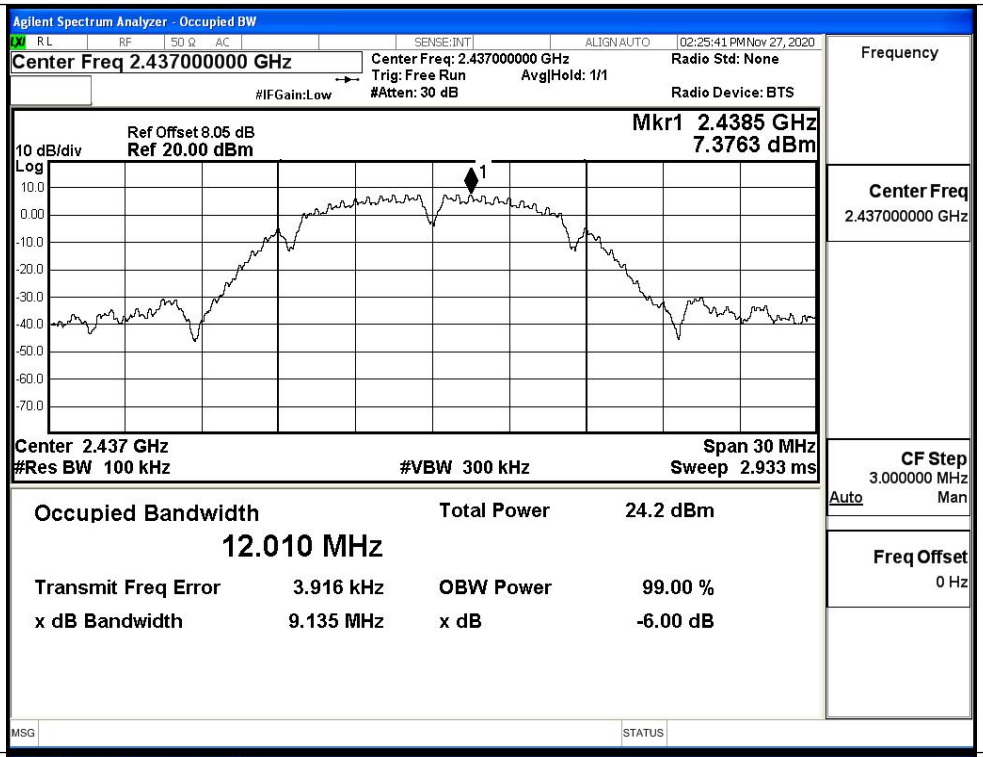
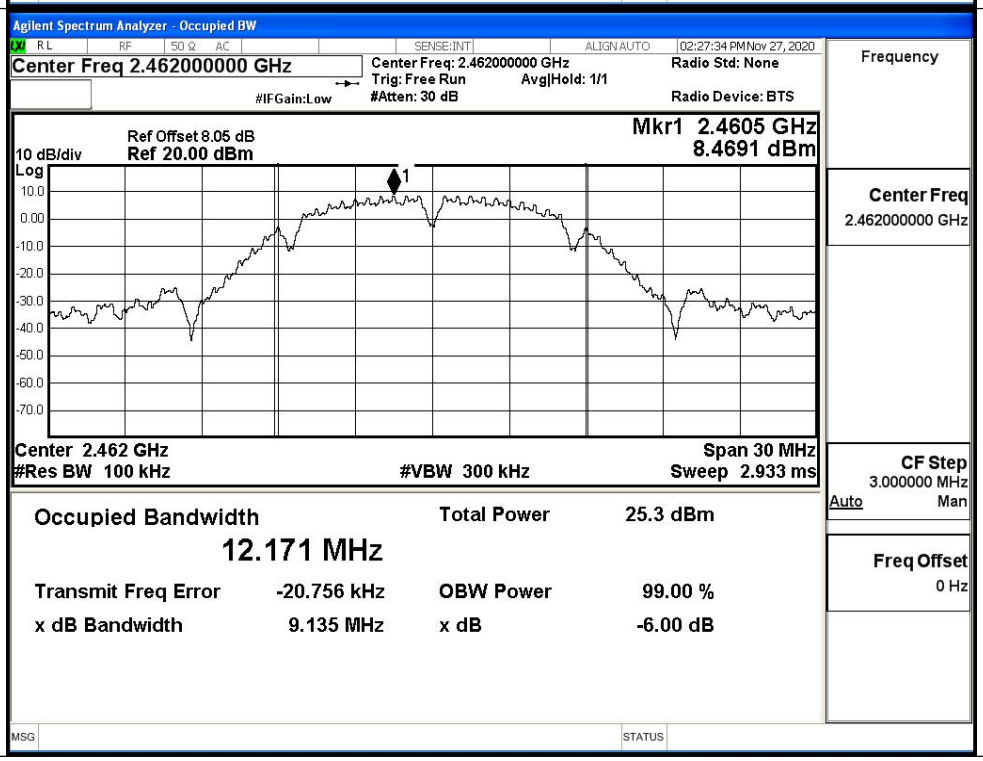
11G/HCH		
11N20SISO/LCH		

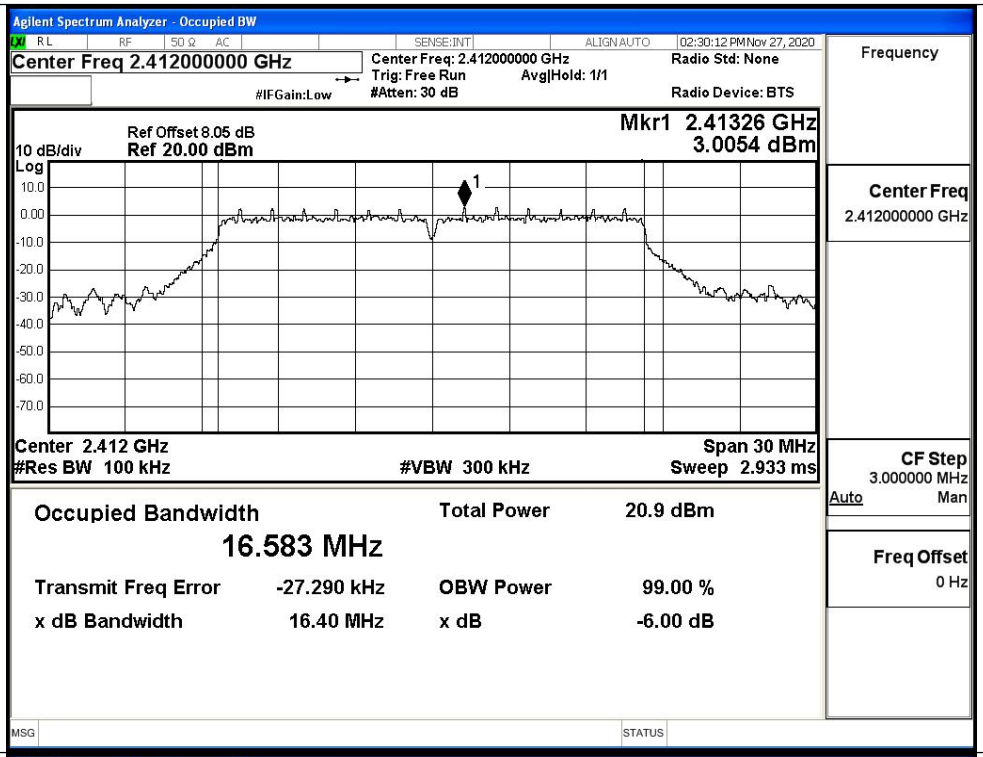
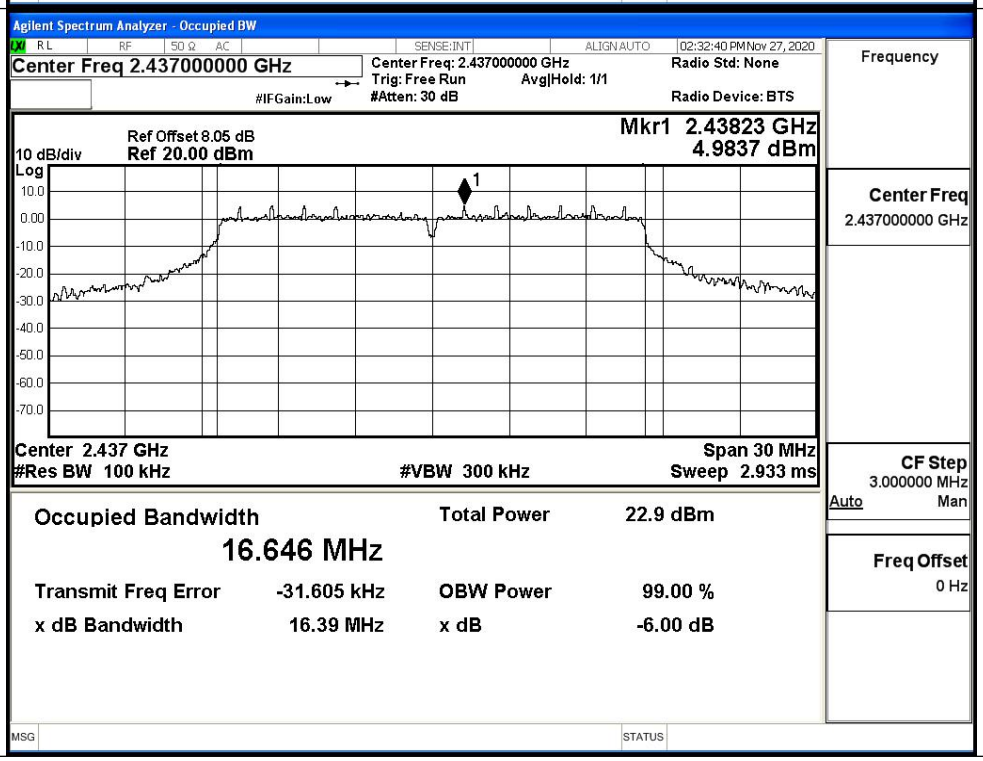
11N20SISO/MCH		
11N20SISO/HCH		

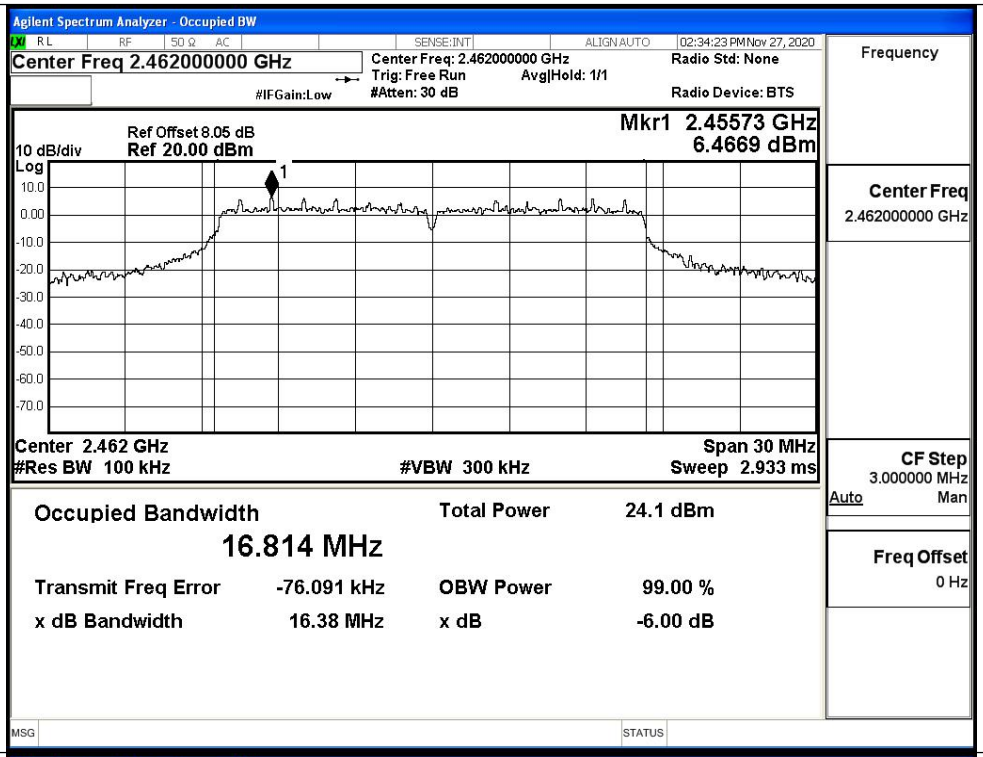
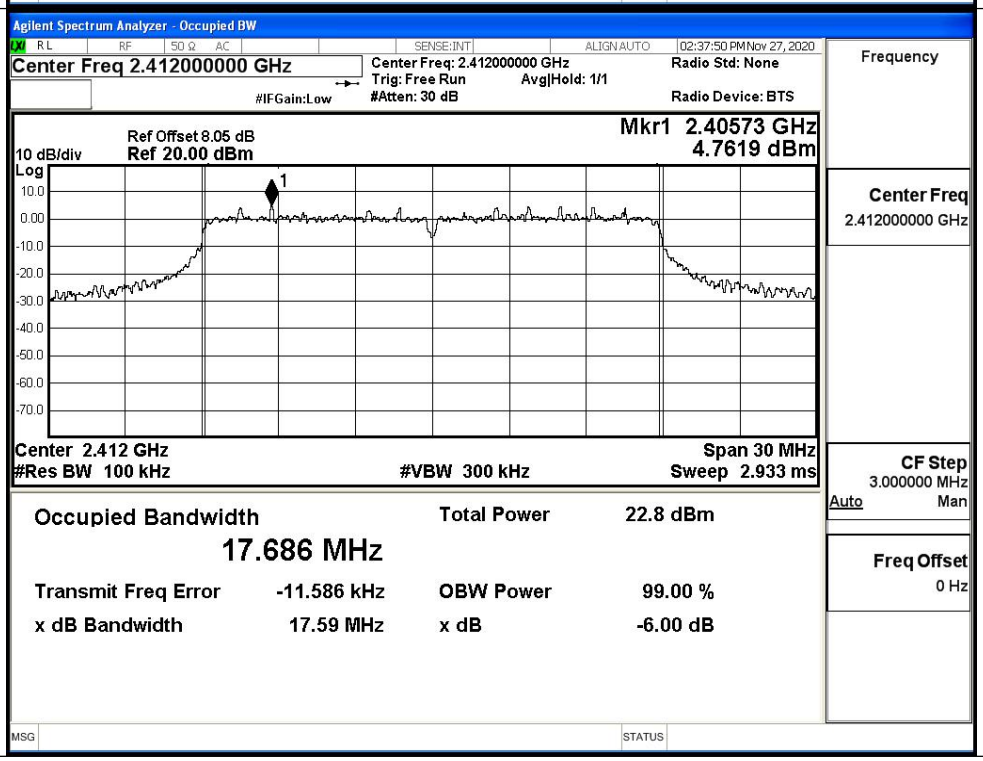
C.4 6dB Bandwidth

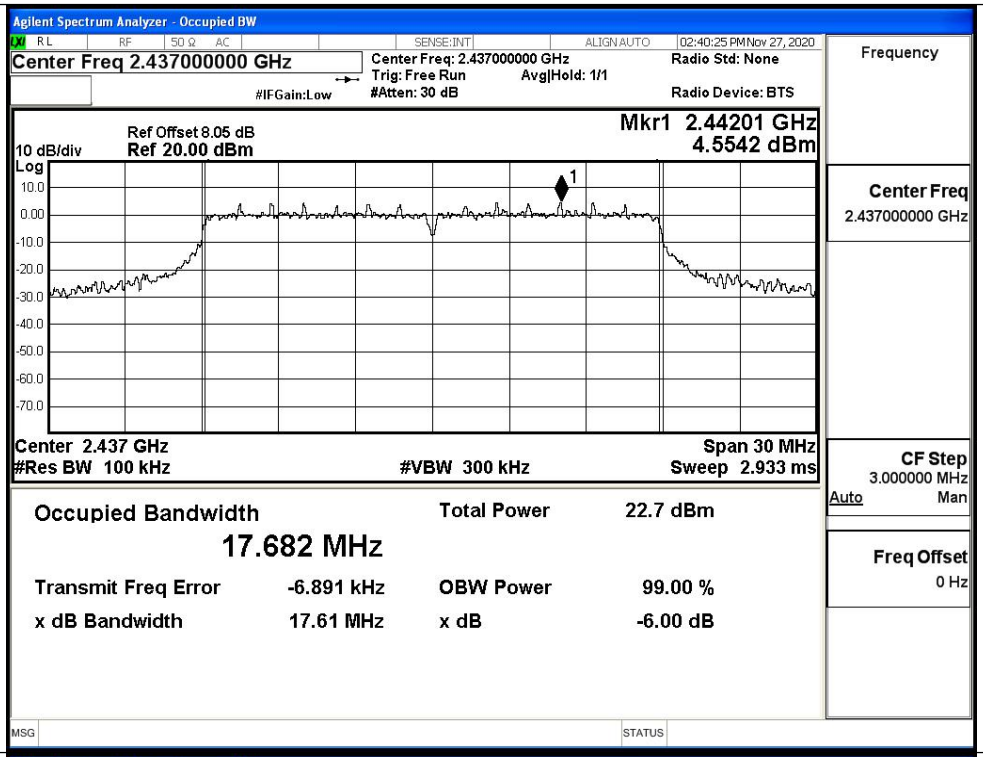
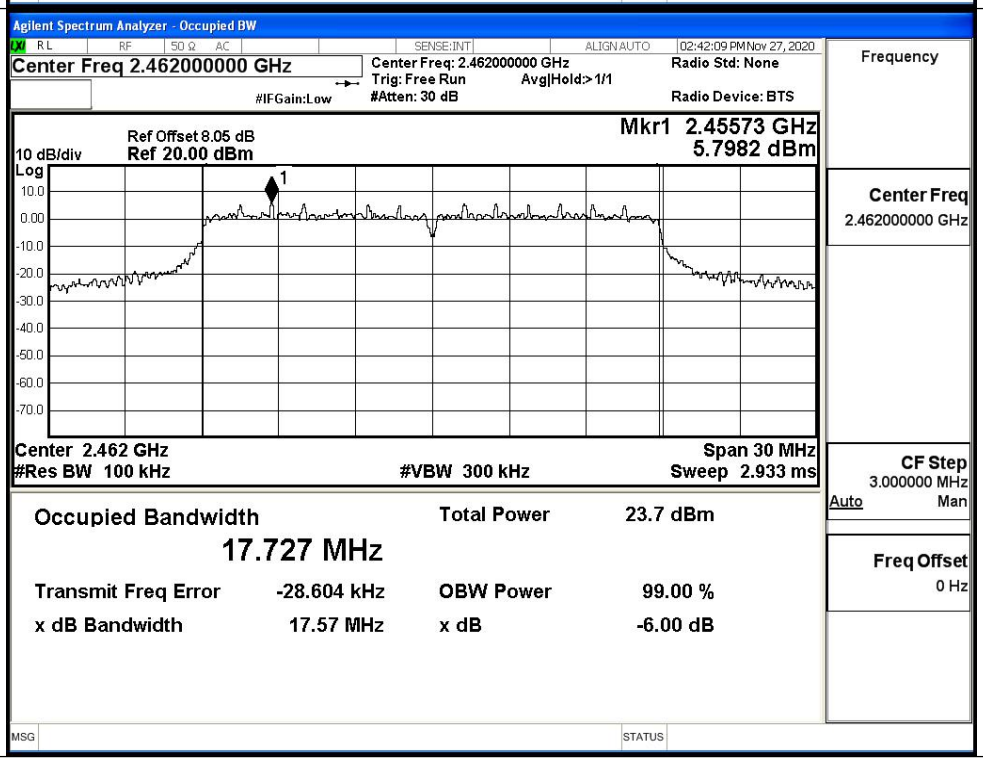
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.076	⩾0.5	PASS
	MCH	9.135	⩾0.5	PASS
	HCH	9.135	⩾0.5	PASS
11G	LCH	16.40	⩾0.5	PASS
	MCH	16.39	⩾0.5	PASS
	HCH	16.38	⩾0.5	PASS
11N20SISO	LCH	17.59	⩾0.5	PASS
	MCH	17.61	⩾0.5	PASS
	HCH	17.57	⩾0.5	PASS

Test Graphs	
11B/LCH	

11B/MCH	
11B/HCH	

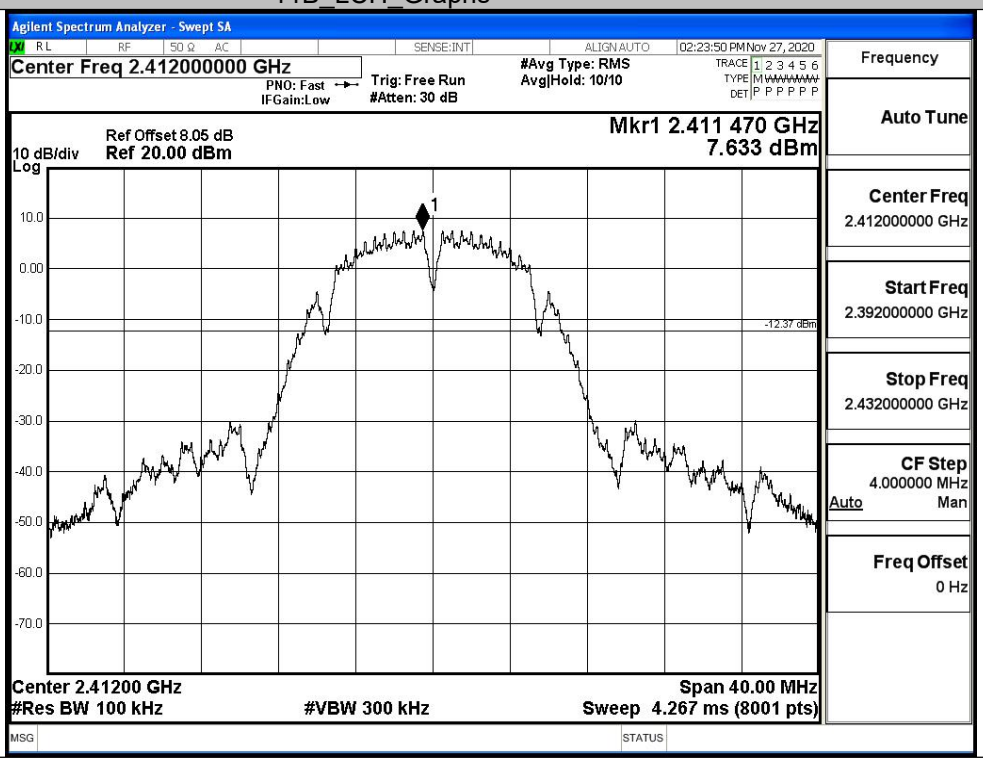
11G/LCH		
11G/MCH		

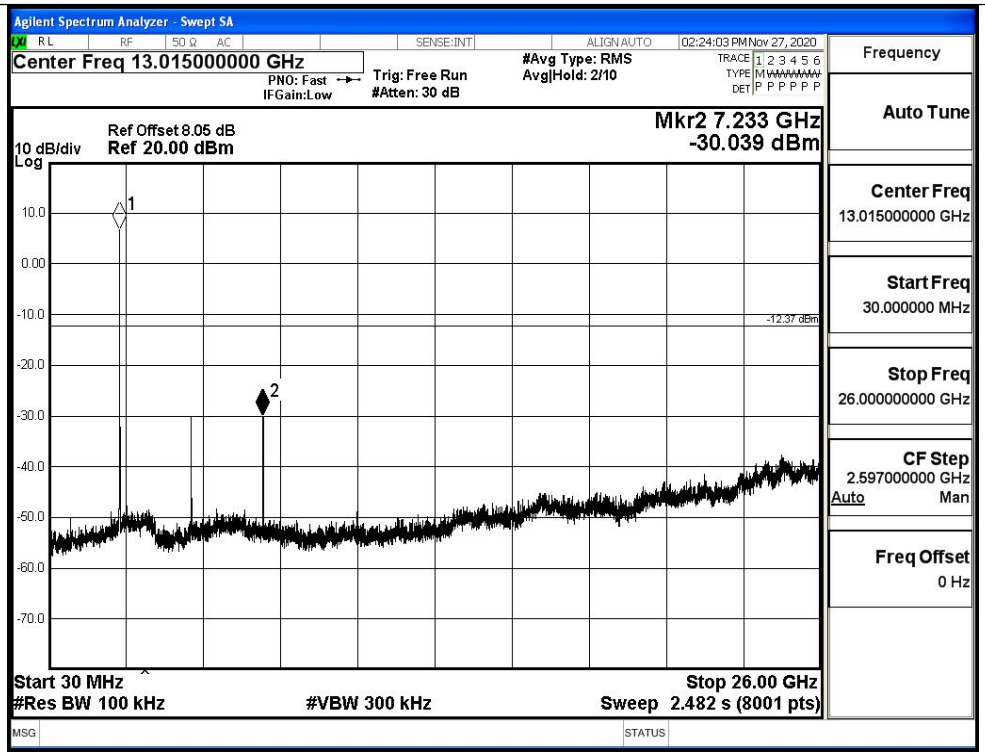
11G/HCH		
11N20SISO/LCH		

11N20SISO/MCH		
11N20SISO/HCH		

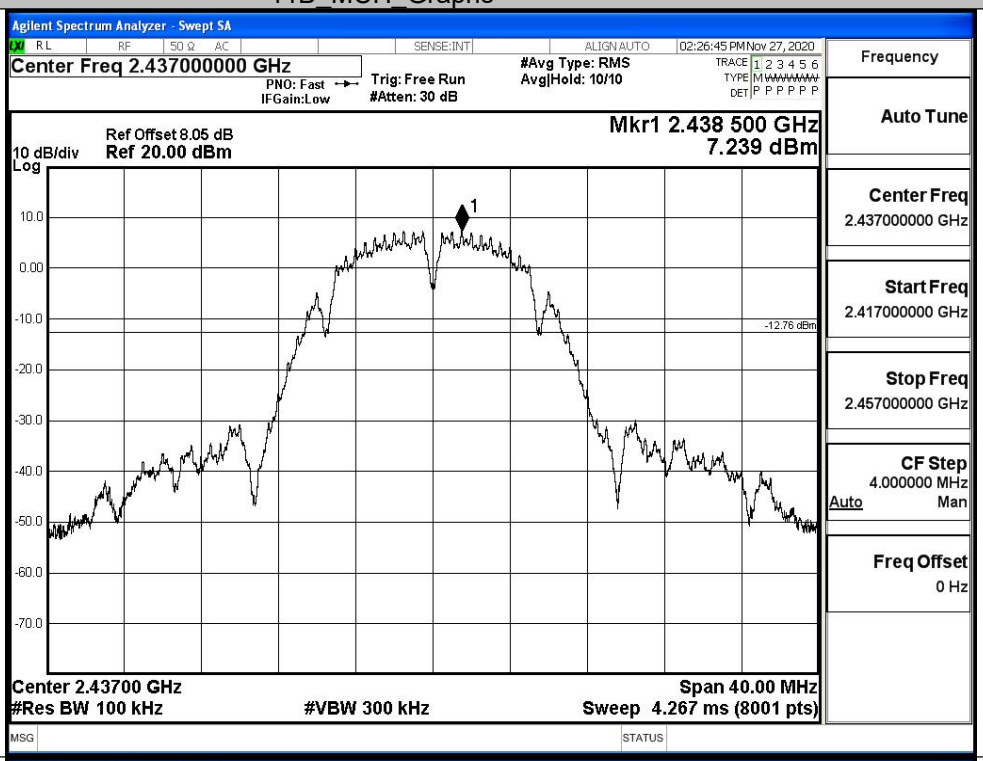
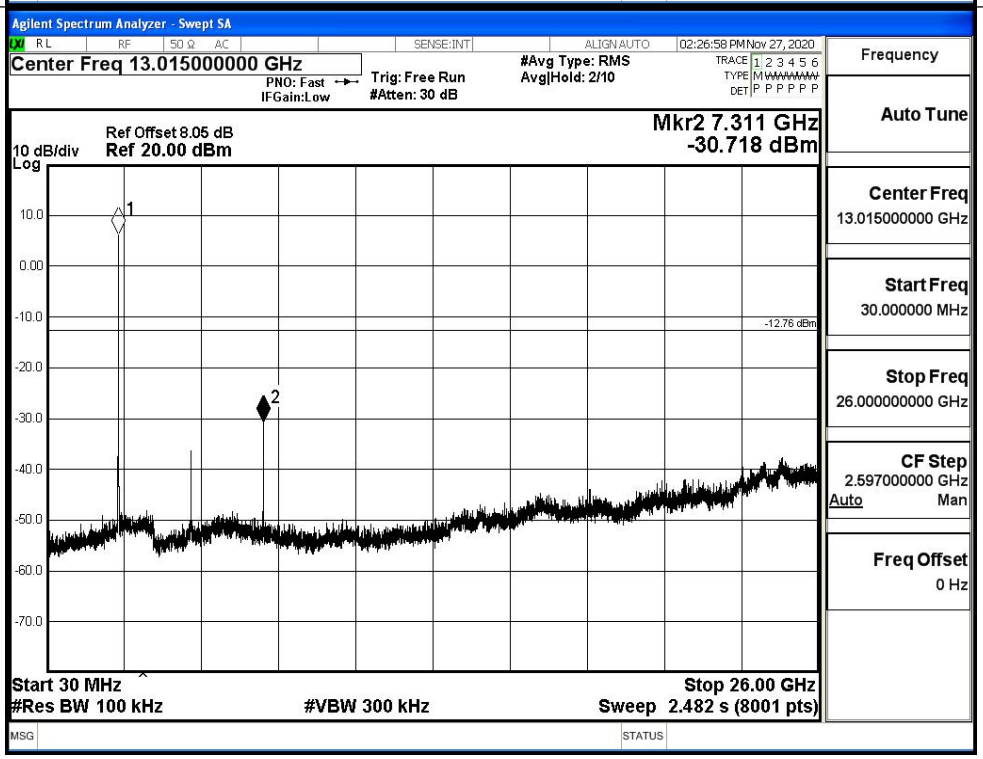
C.5 RF Conducted Spurious Emissions

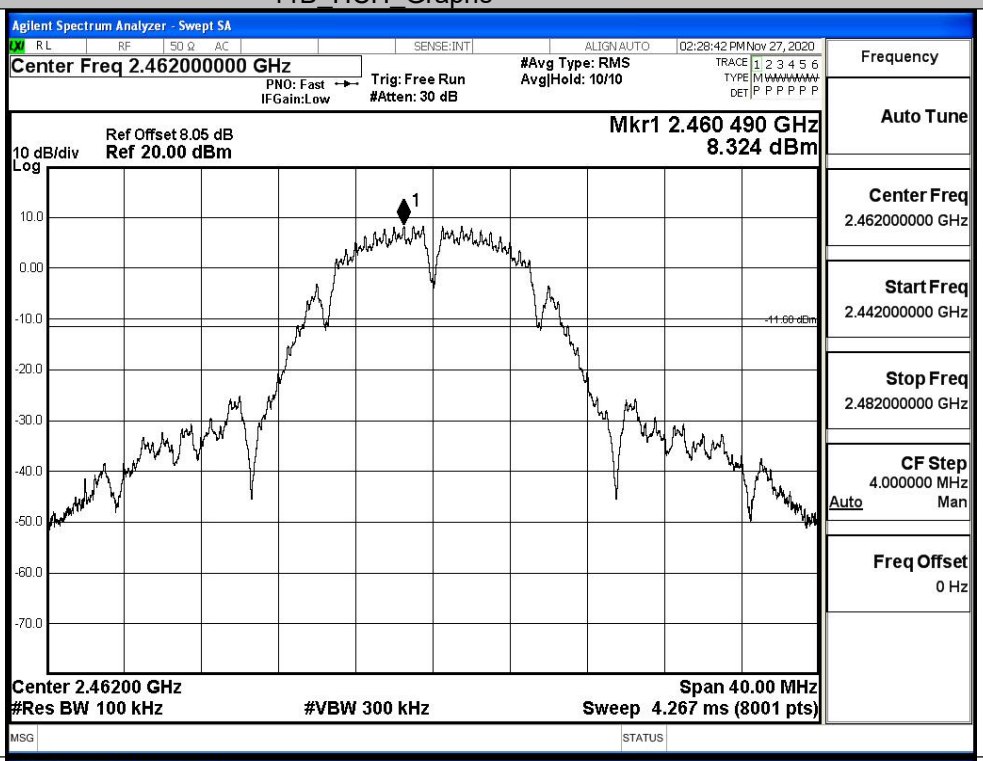
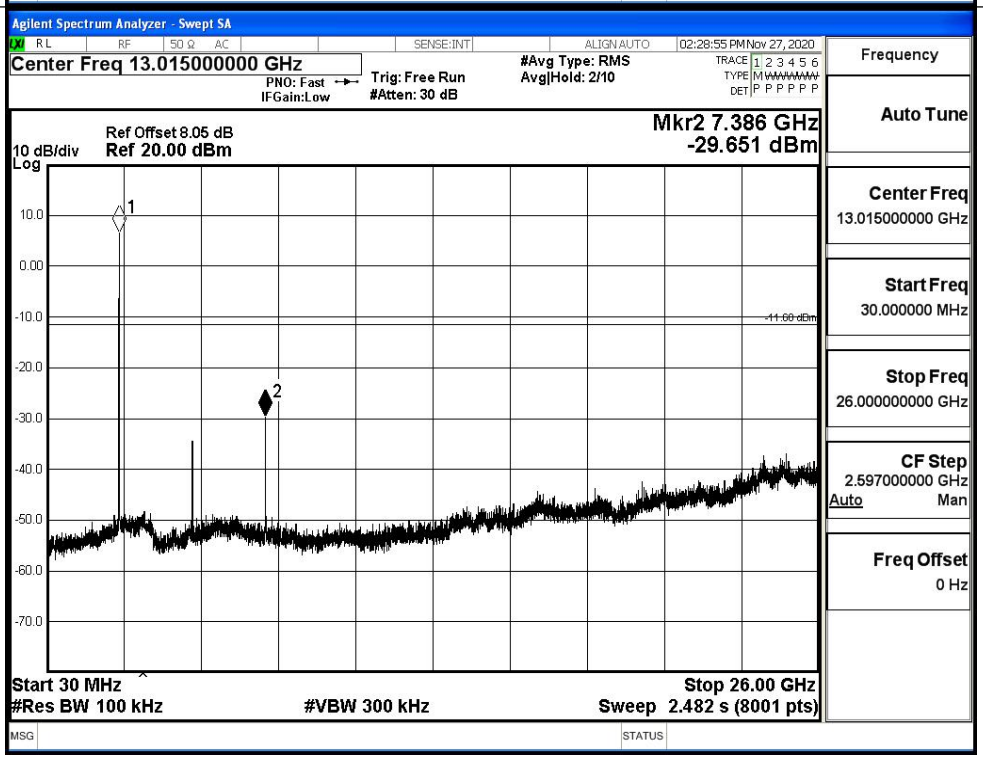
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	7.633	-30.039	-12.367	PASS
	MCH	7.239	-30.718	-12.761	PASS
	HCH	8.324	-29.651	-11.676	PASS
11G	LCH	2.593	-37.427	-17.407	PASS
	MCH	4.868	-33.975	-15.132	PASS
	HCH	6.201	-32.827	-13.799	PASS
11N20 SISO	LCH	4.76	-33.693	-15.240	PASS
	MCH	4.779	-35.842	-15.221	PASS
	HCH	5.732	-33.962	-14.268	PASS

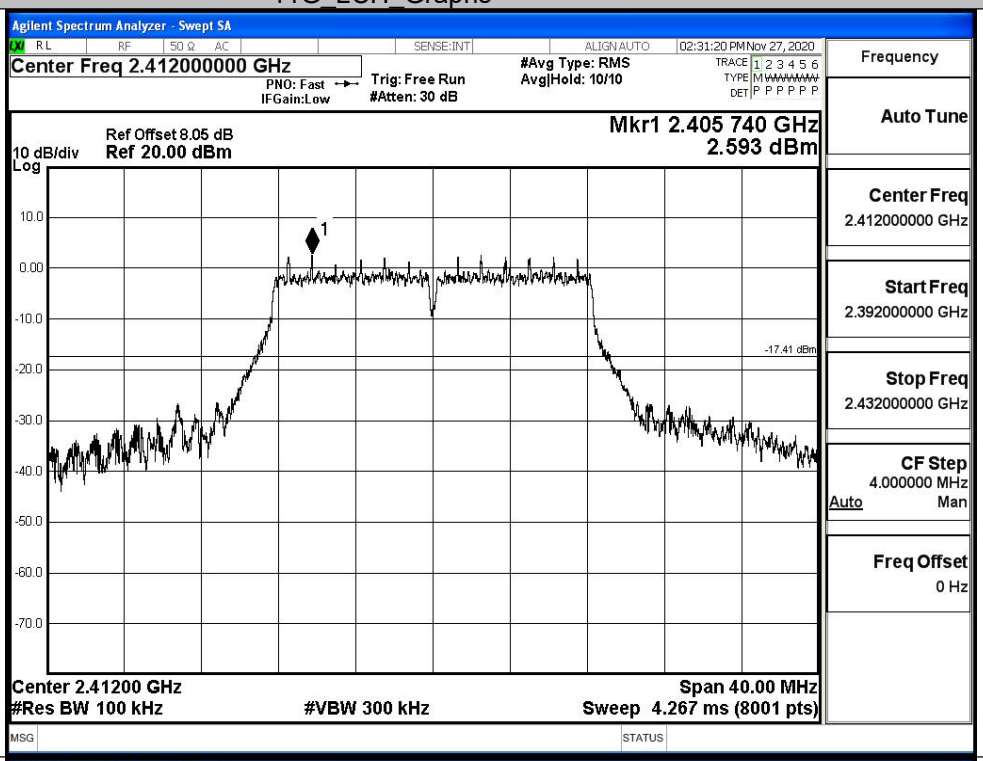
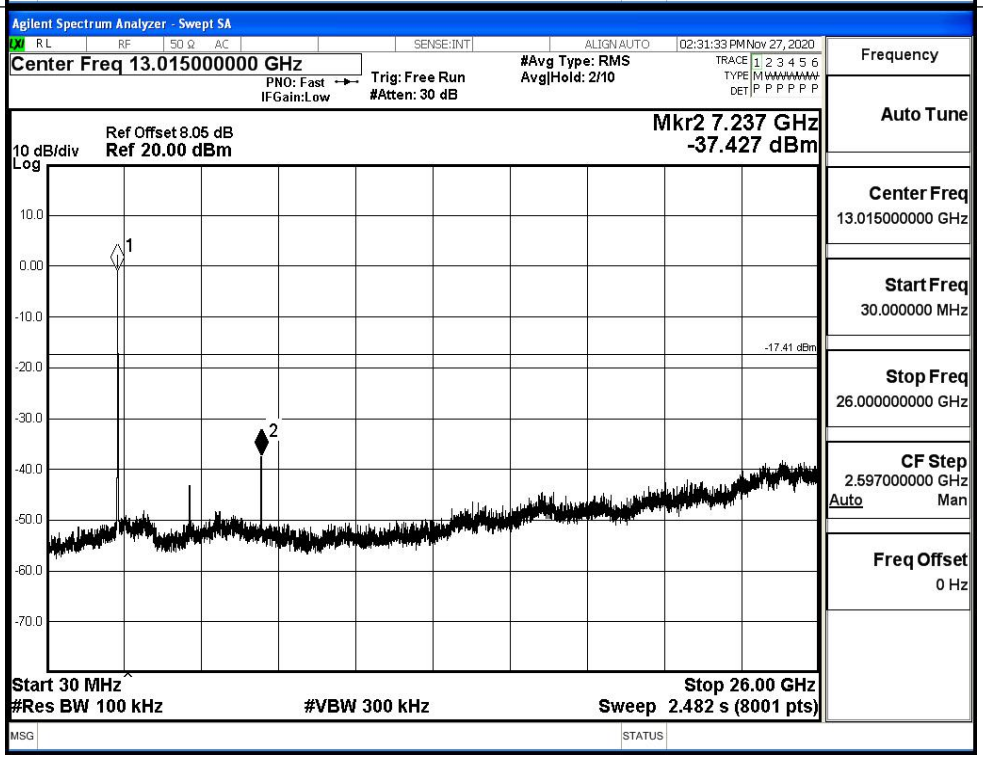
11B_LCH_Graphs		
Pref/11B/LCH		

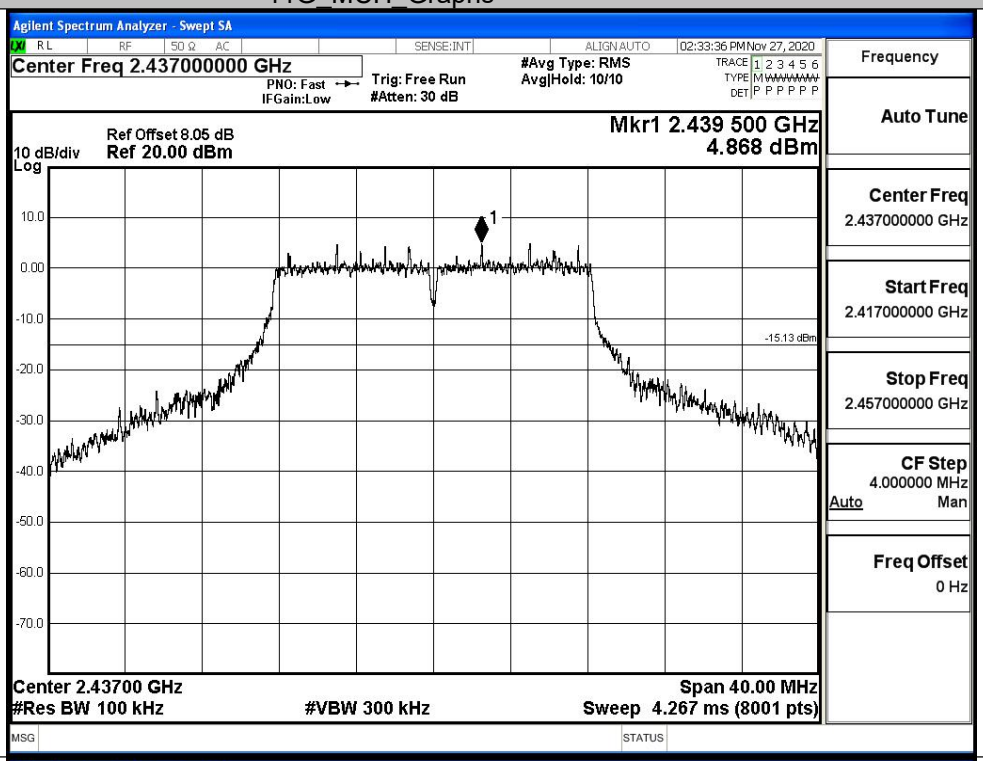
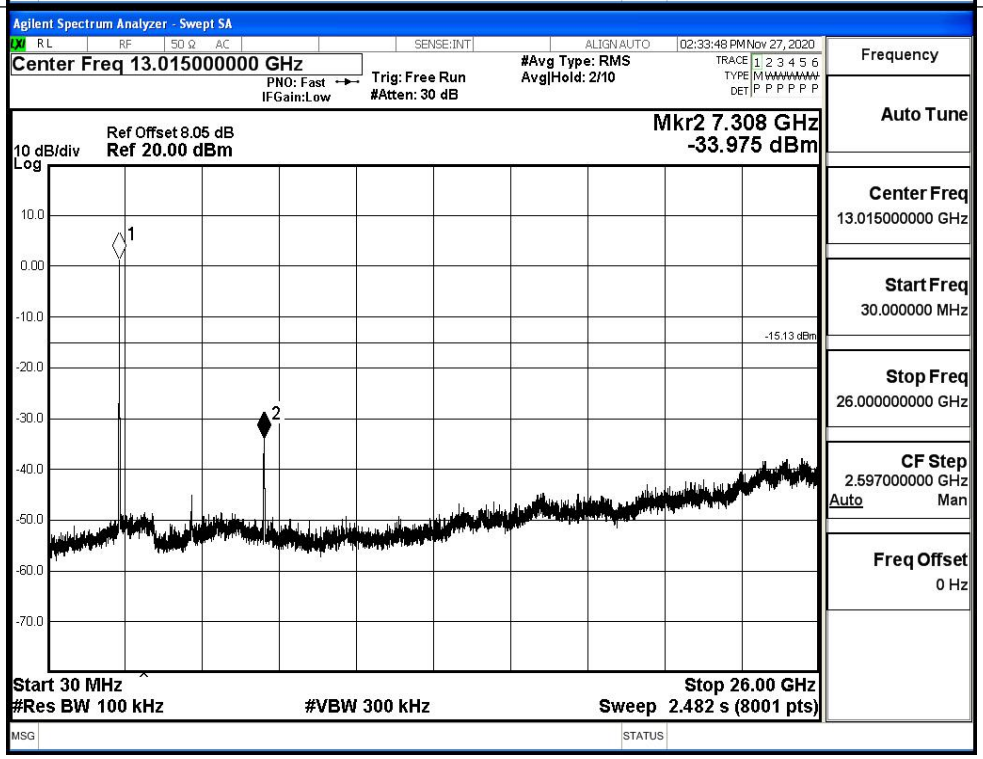
Puw/11B/LCH	

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 2/10
02:24:03 PM Nov 27, 2020
Ref Offset 8.05 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr2 7.233 GHz
-30.039 dBm
-12.37 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 26.00 GHz
Sweep 2.482 s (8001 pts)
Frequency
Auto Tune
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz

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		

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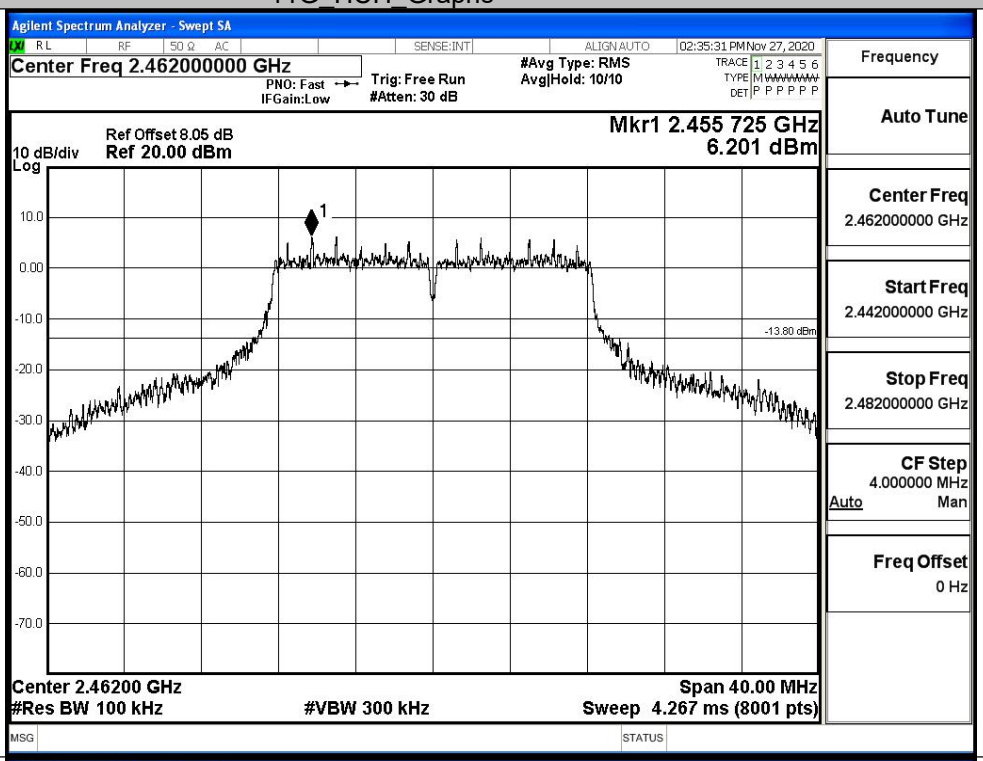
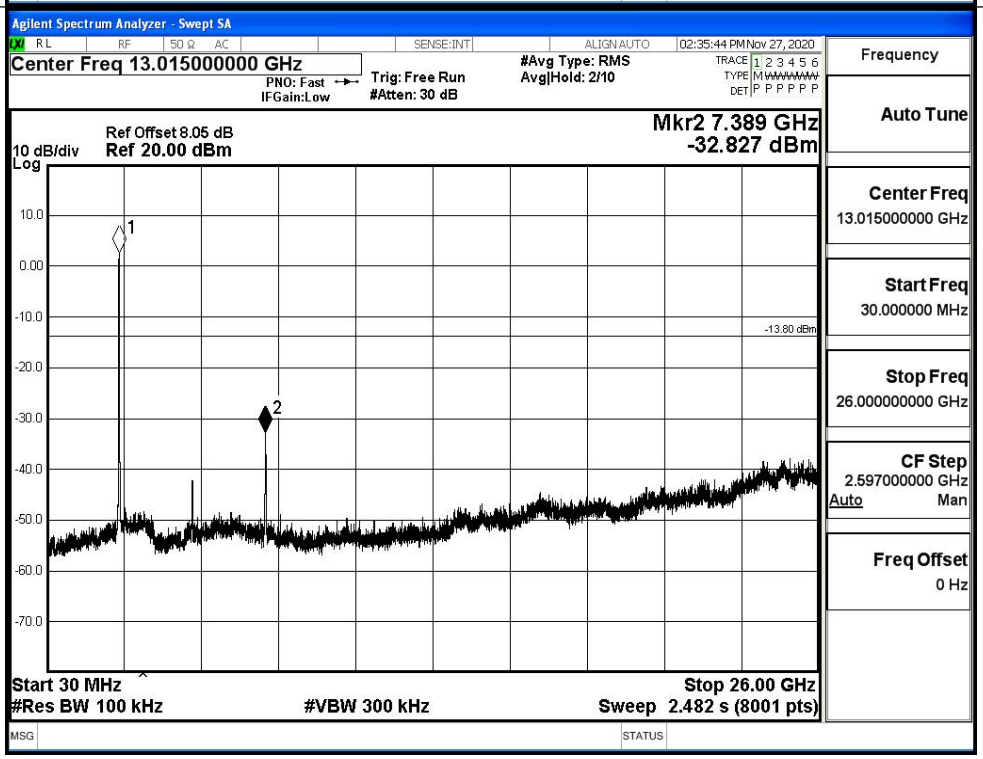
Pref/11G/HCH		
Puw/11G/HCH