Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Diagnosis System

Trade Mark: XTOOL

Test Model: H6 Elite

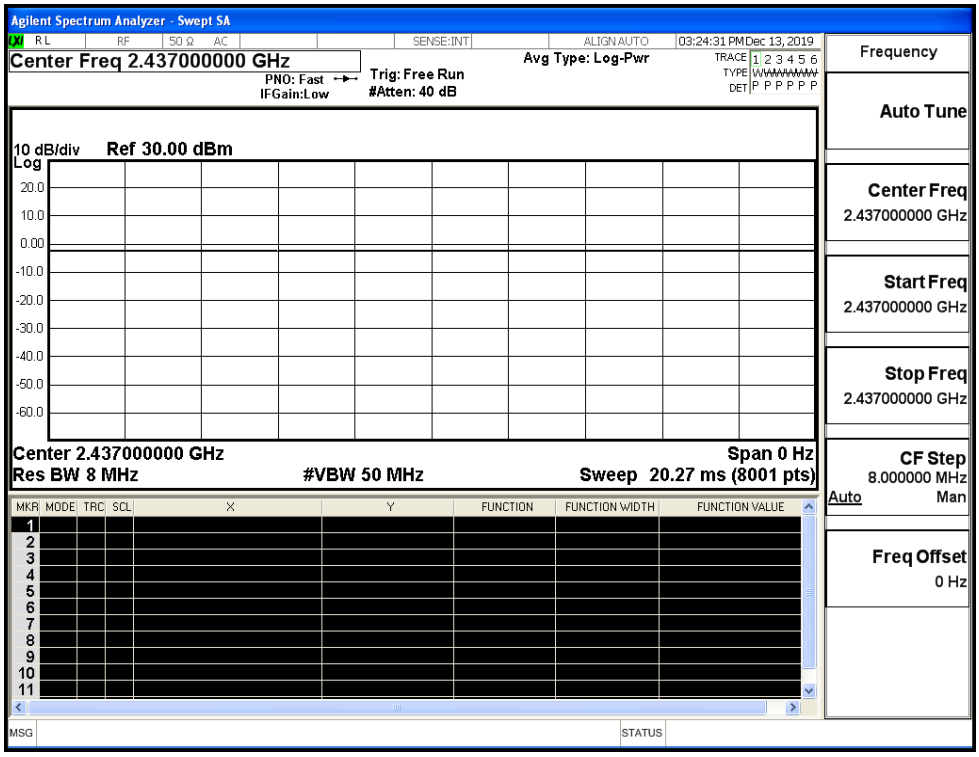
Environmental Conditions

Temperature:	24.3 ° C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	ZHUO ZHUO
Supervised by:	TOM LIU

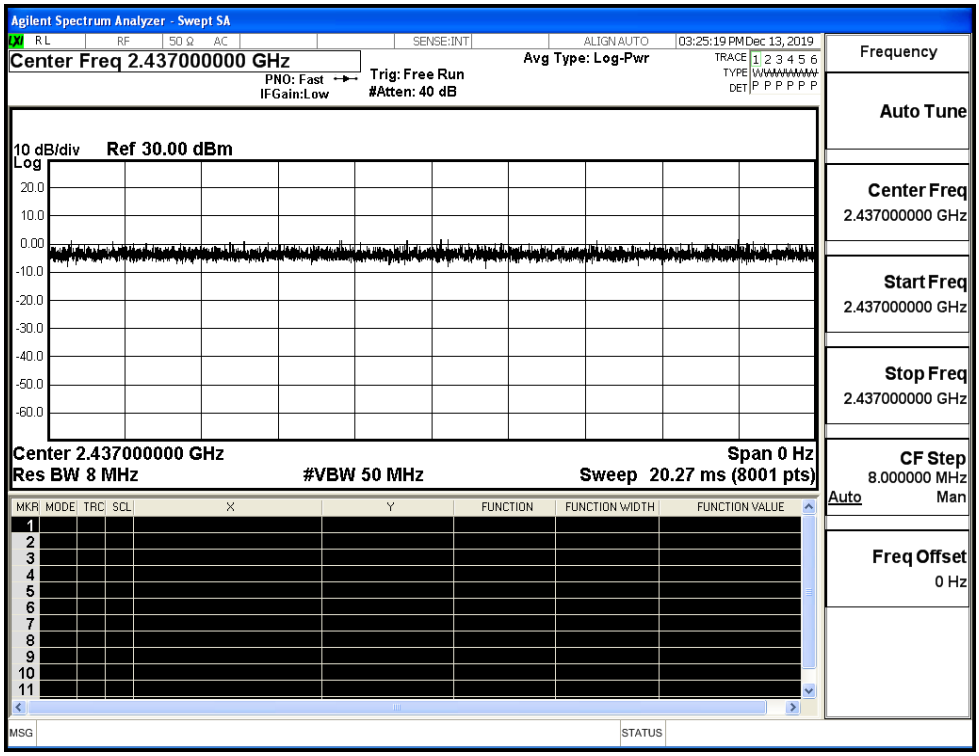
C.1 Duty Cycle

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

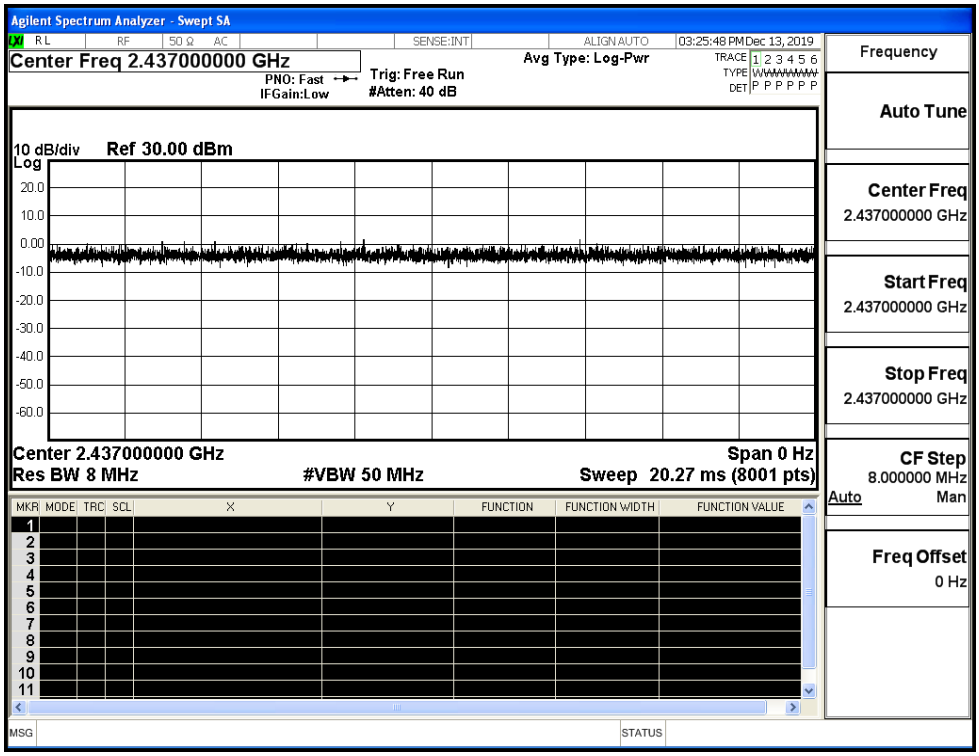
Duty Cycle_11B_2437_Ant1



Duty Cycle_11G_2437_Ant1

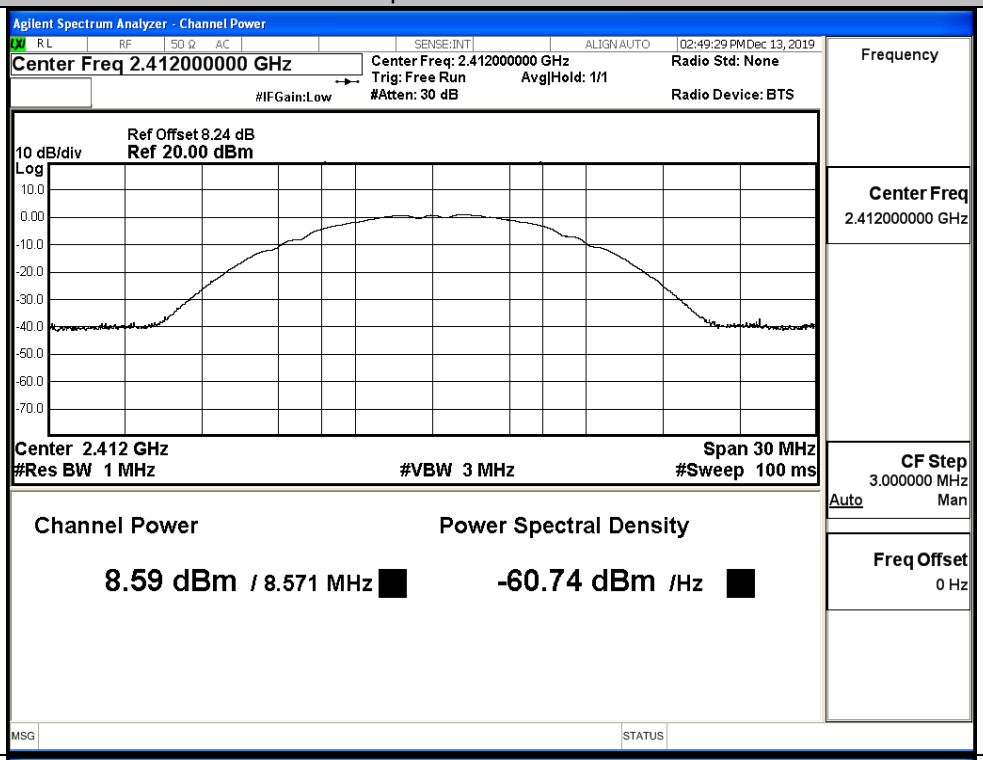
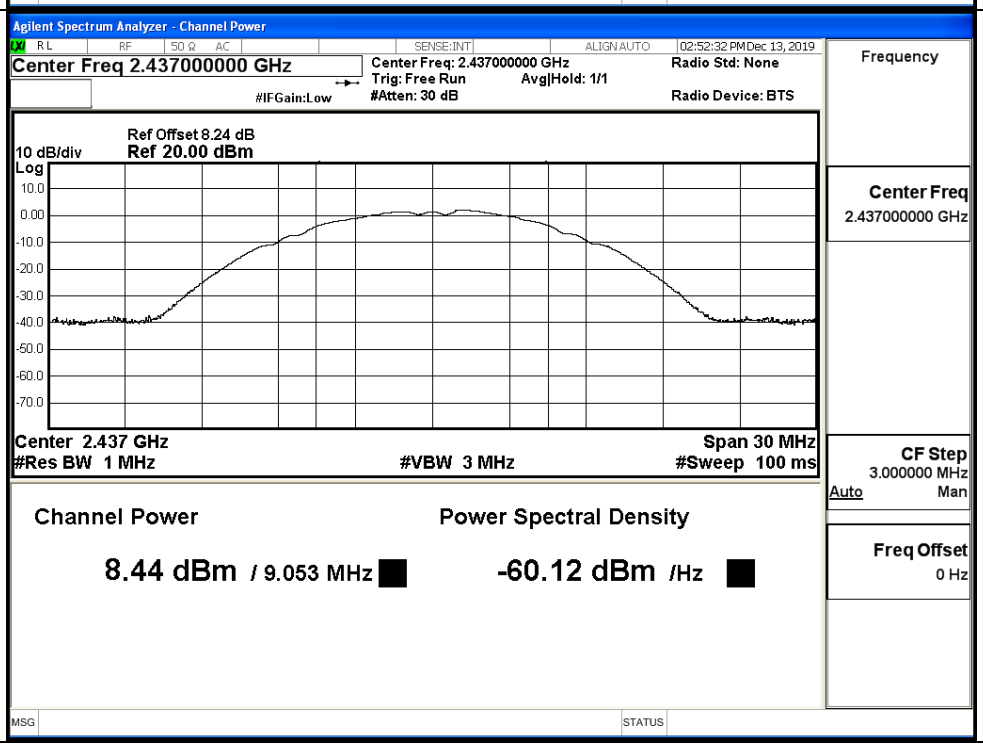


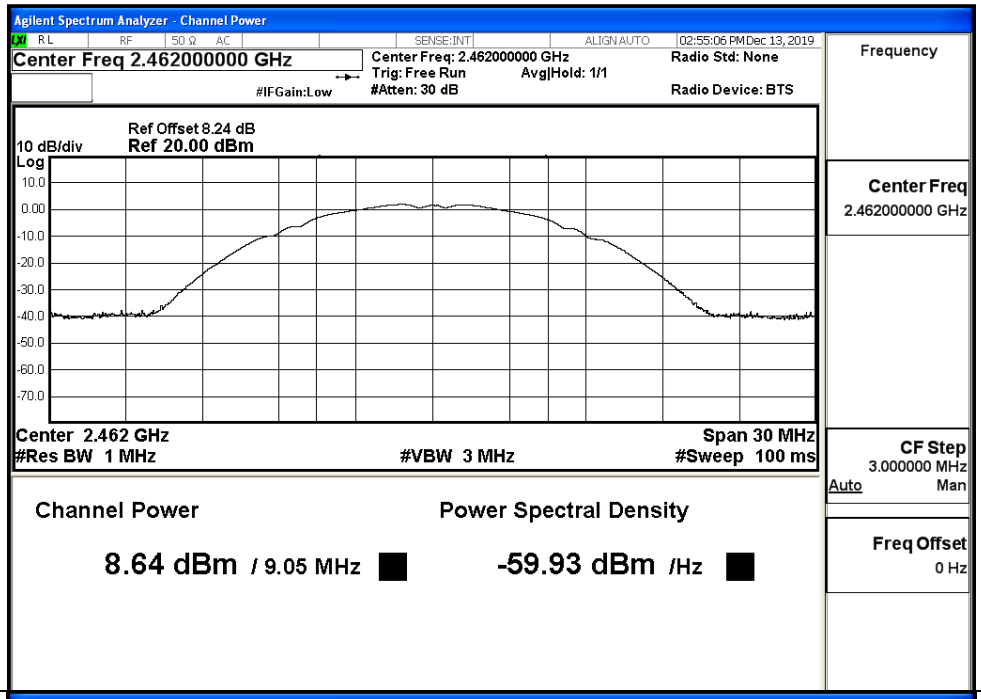
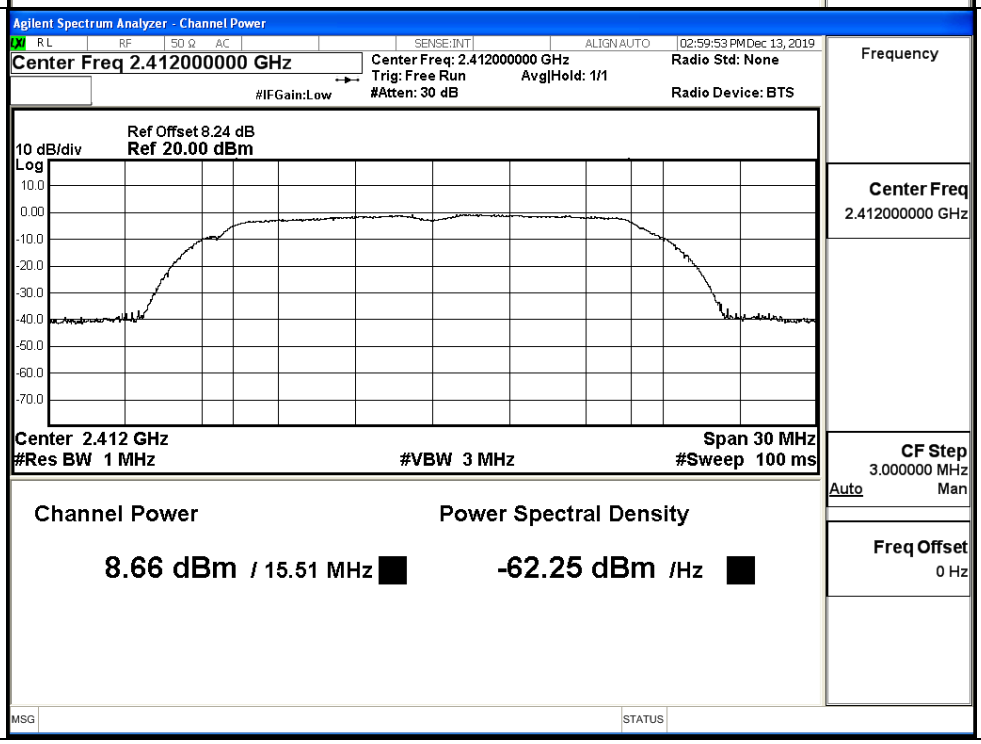
Duty Cycle_11N20SISO_2437_Ant1

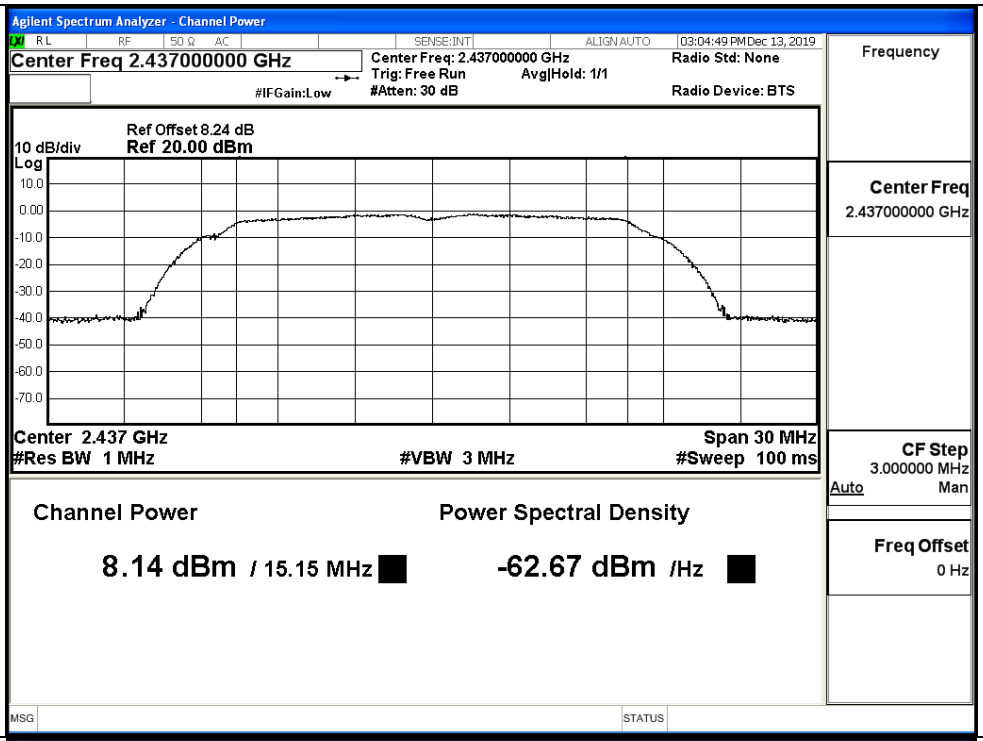
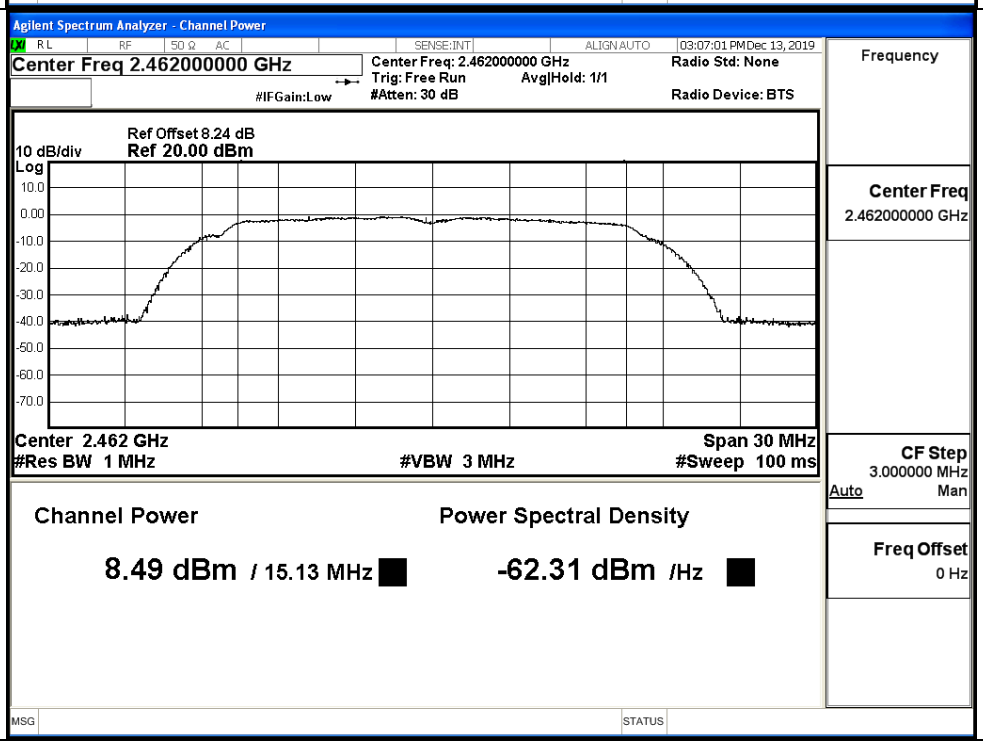


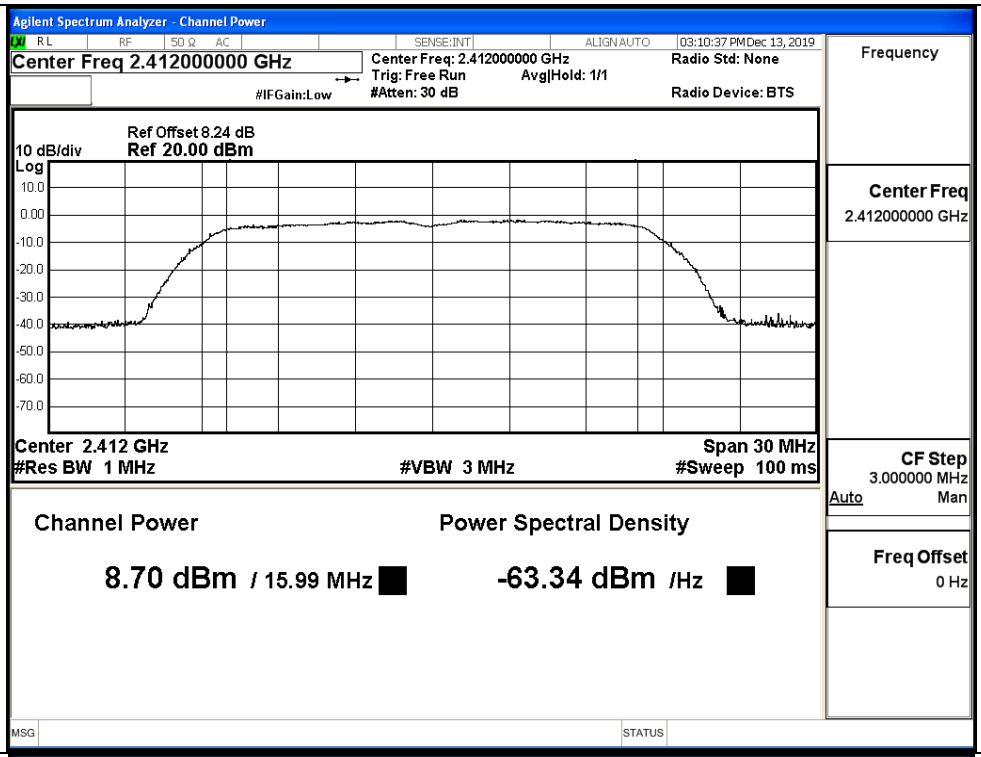
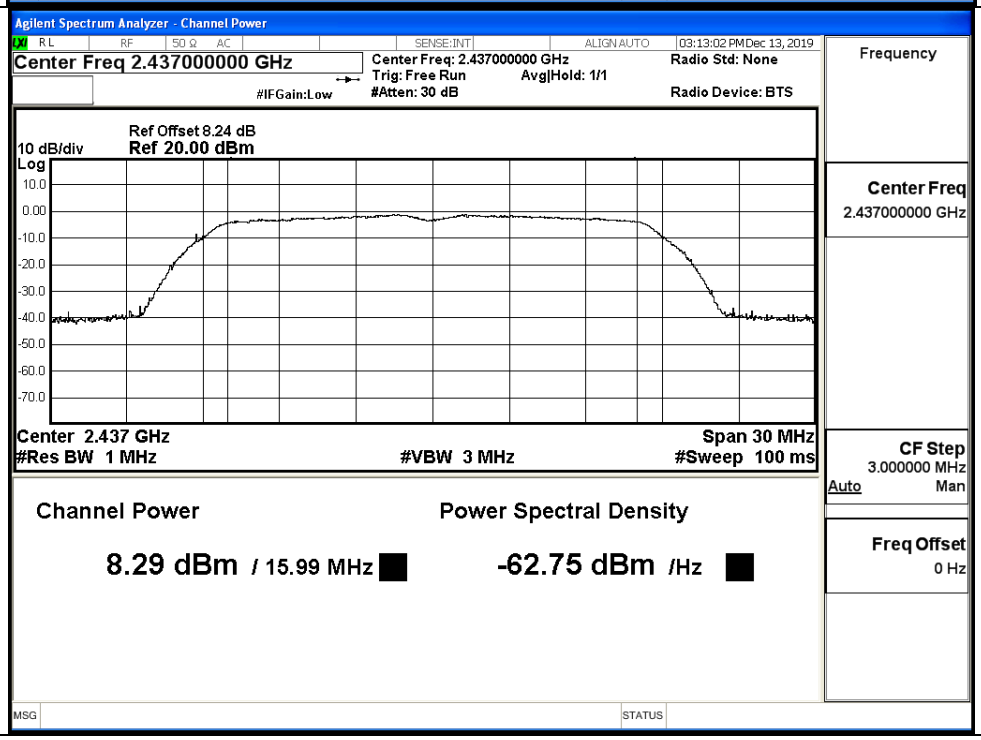
C.2 Maximum Conducted Output Power

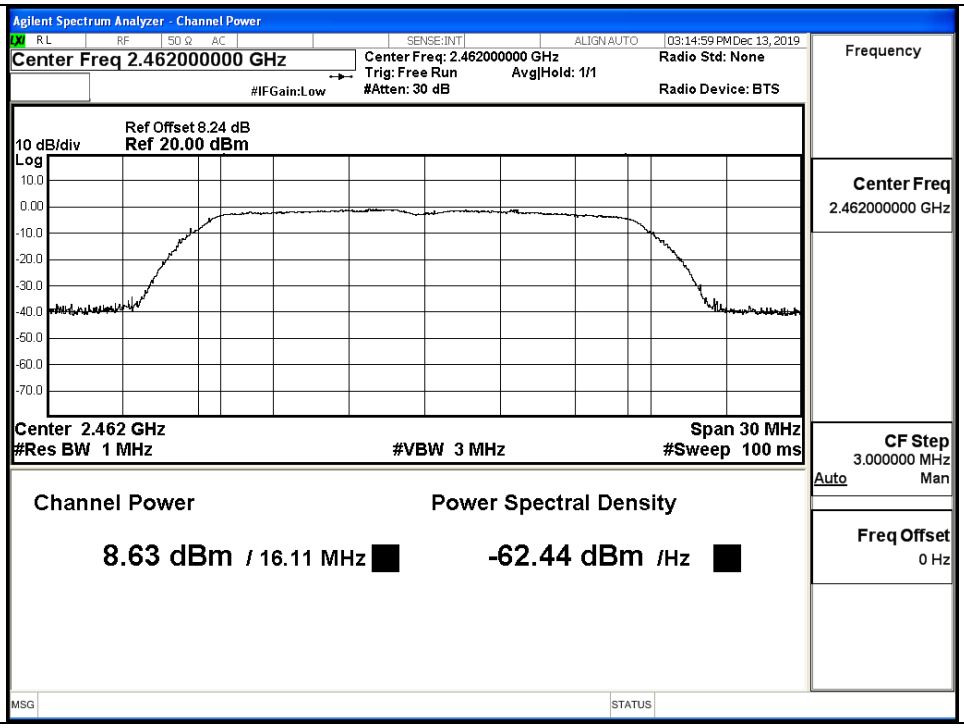
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	8.59	30	PASS
	MCH	8.44	30	PASS
	HCH	8.64	30	PASS
11G	LCH	8.66	30	PASS
	MCH	8.14	30	PASS
	HCH	8.49	30	PASS
11N20SISO	LCH	8.7	30	PASS
	MCH	8.29	30	PASS
	HCH	8.63	30	PASS

Test Graphs		
11B/LCH		
11B/MCH		

11B/HCH	
11G/LCH	

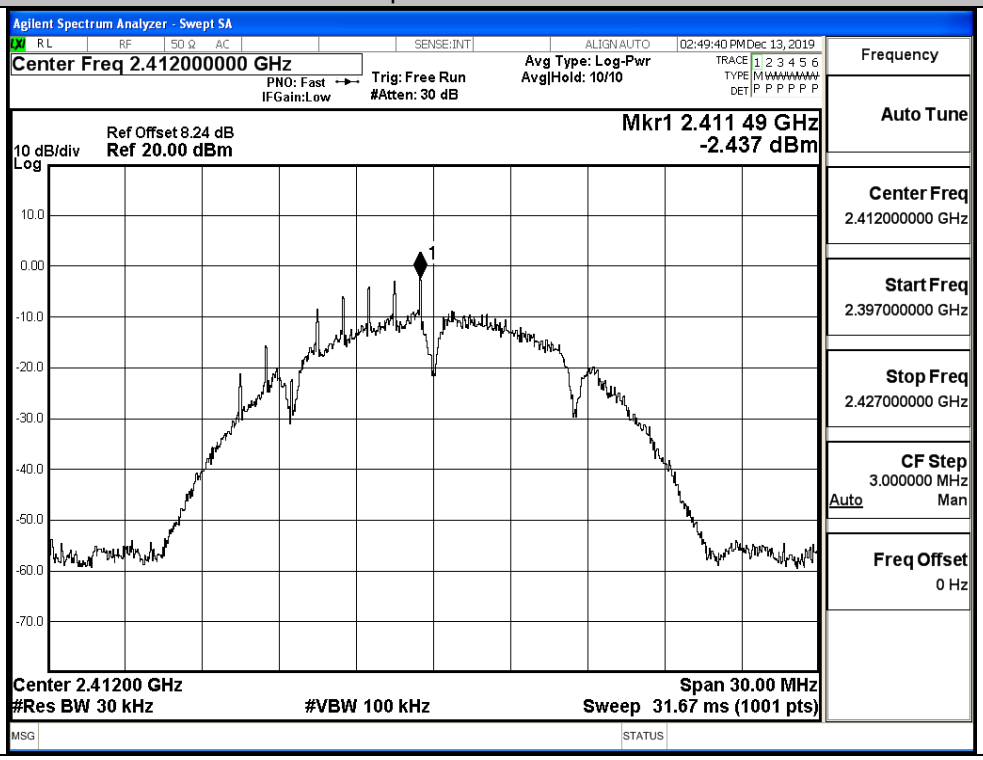
11G/MCH	
11G/HCH	

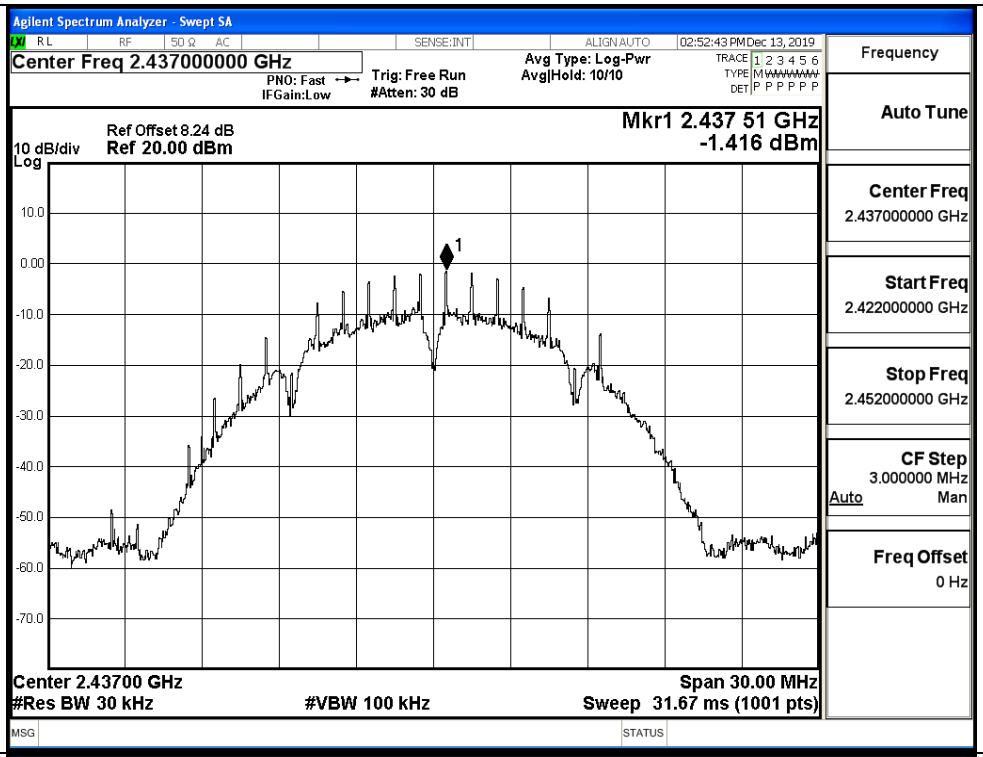
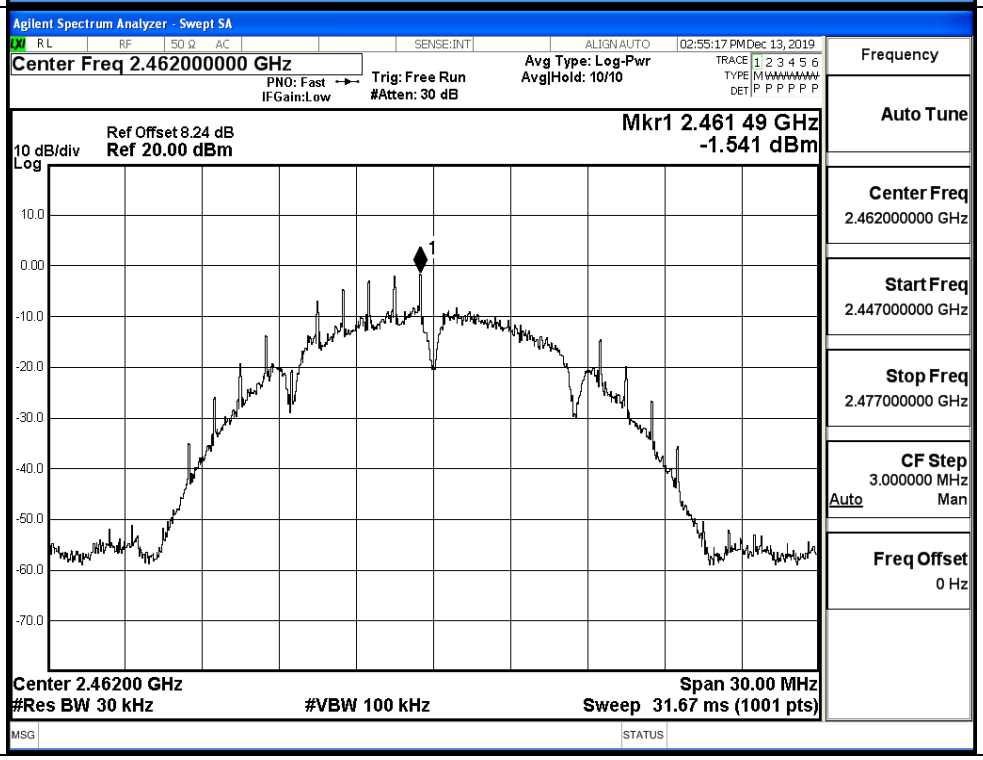
11N20SISO/LCH	
11N20SISO/MCH	

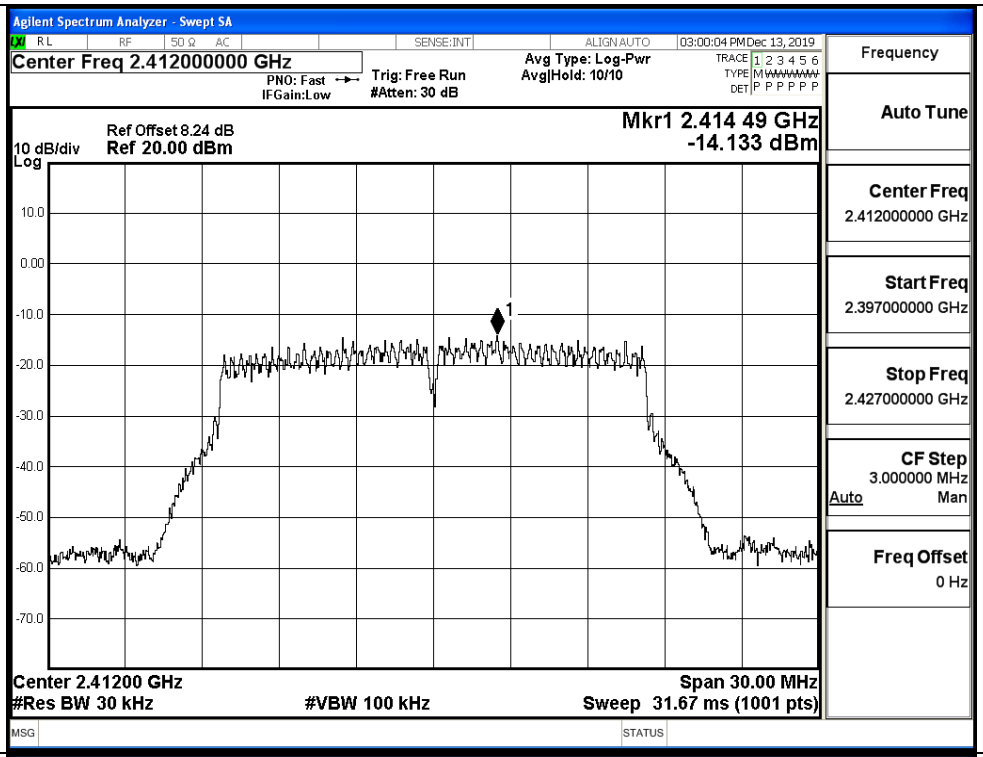
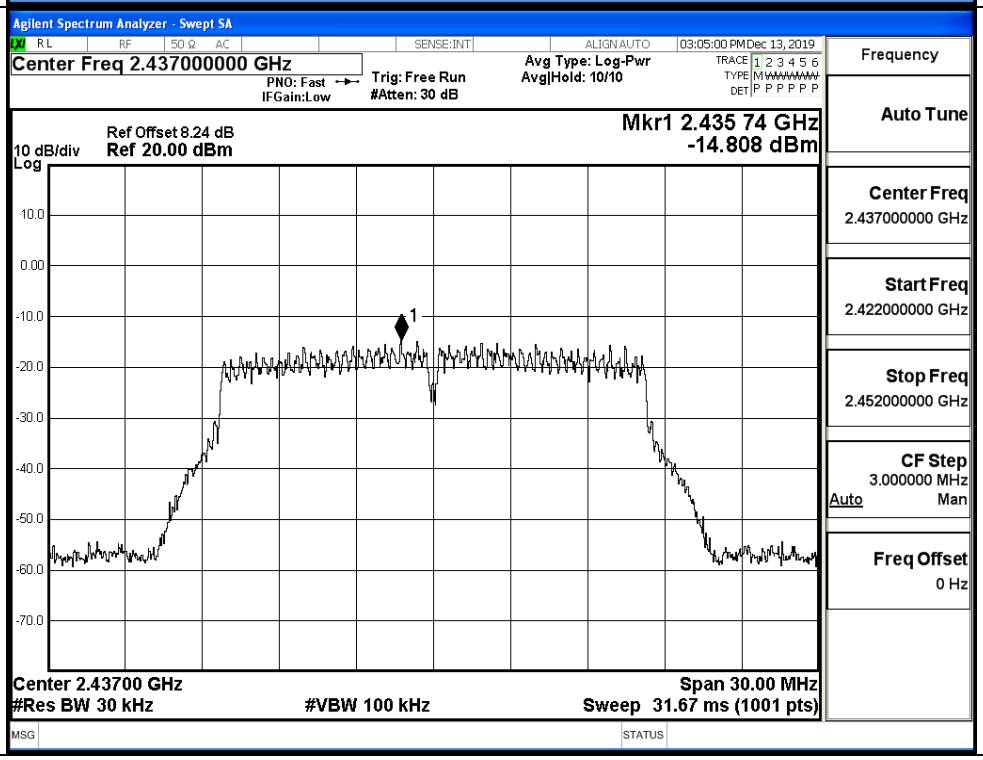
11N20SISO/HCH	

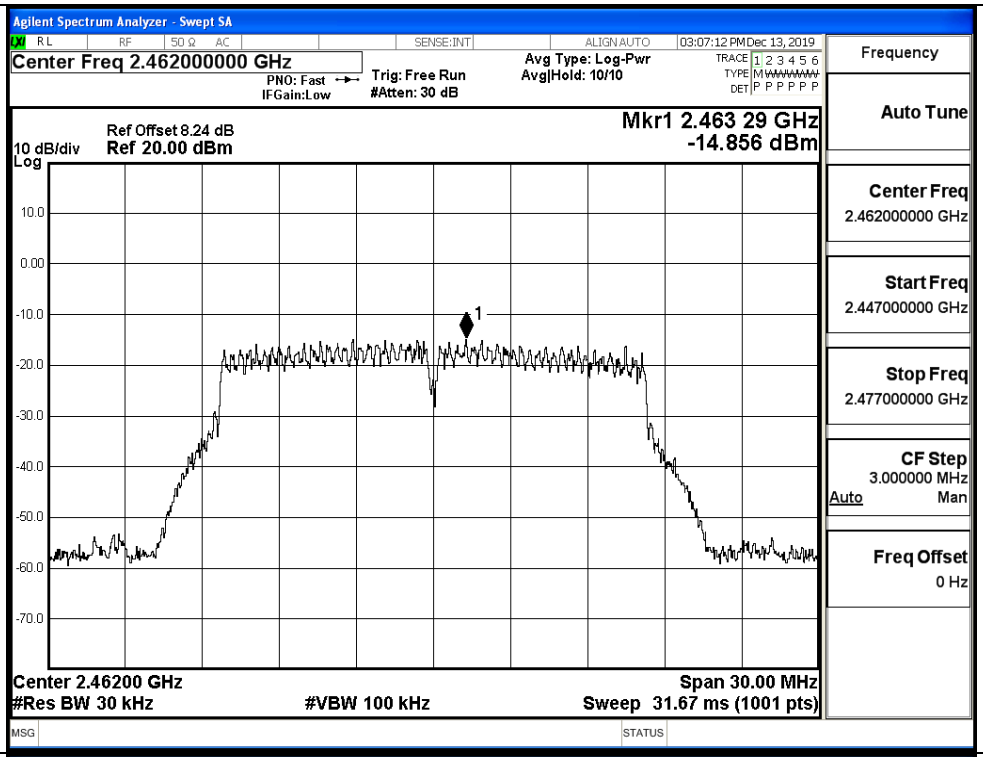
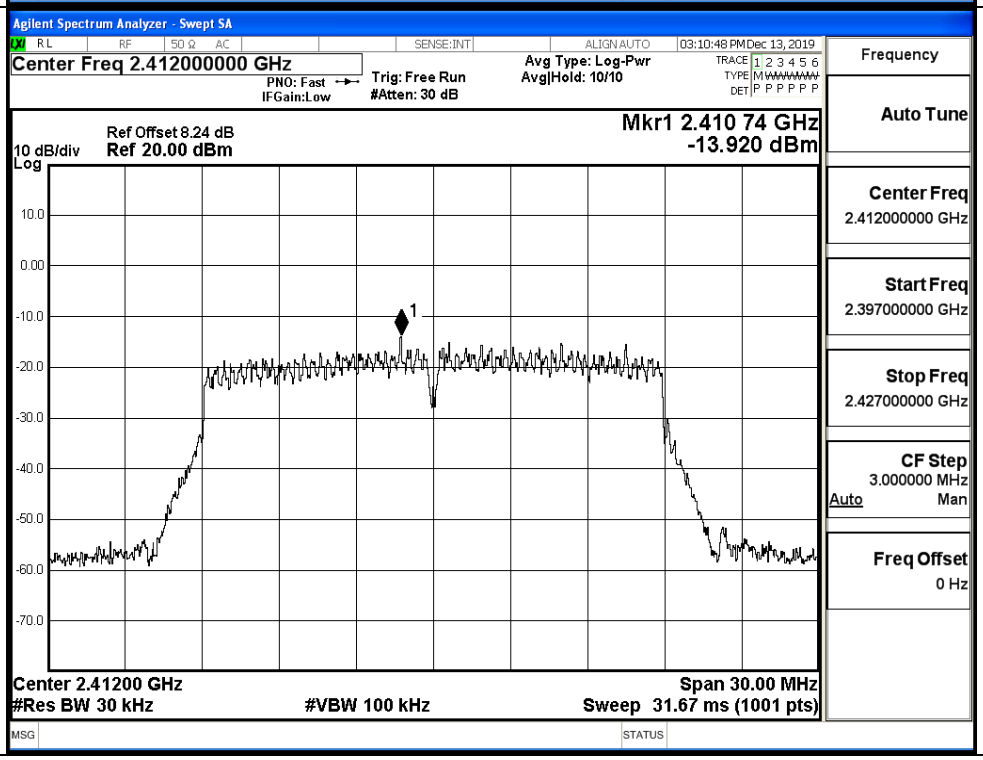
C.3 Maximum Power Spectral Density

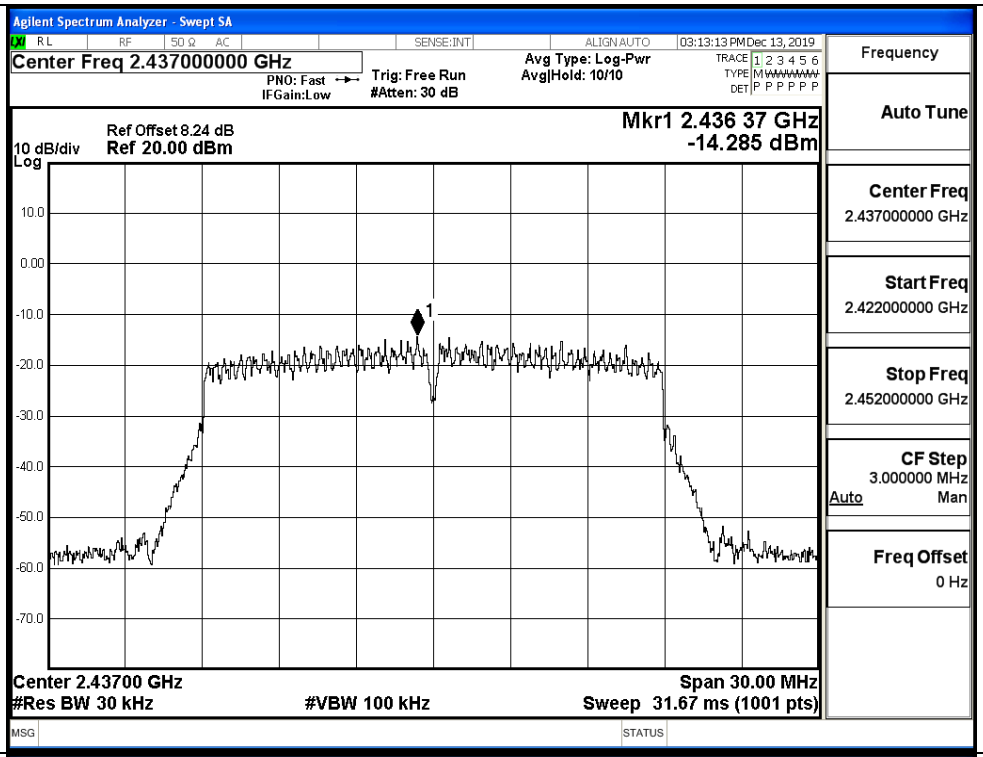
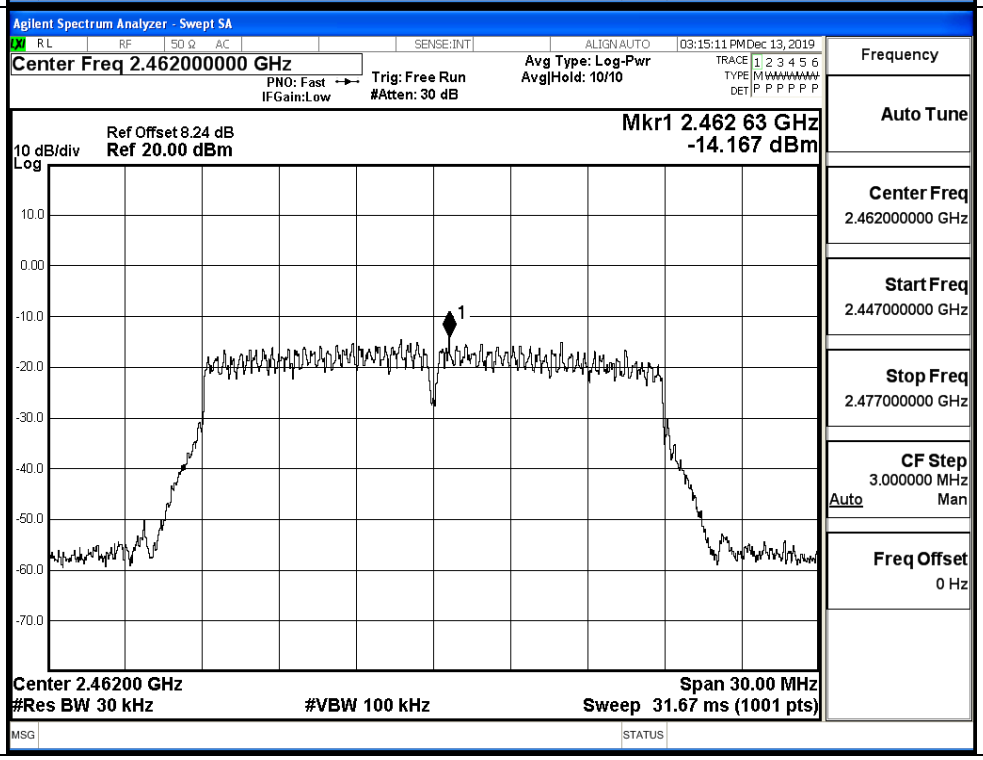
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-2.437	8	PASS
	MCH	-1.416	8	PASS
	HCH	-1.541	8	PASS
11G	LCH	-14.133	8	PASS
	MCH	-14.808	8	PASS
	HCH	-14.856	8	PASS
11N20SISO	LCH	-13.920	8	PASS
	MCH	-14.285	8	PASS
	HCH	-14.167	8	PASS

Test Graphs	
11B/LCH	

11B/MCH	
11B/HCH	

11G/LCH		
11G/MCH		

11G/HCH	
11N20SISO/LCH	

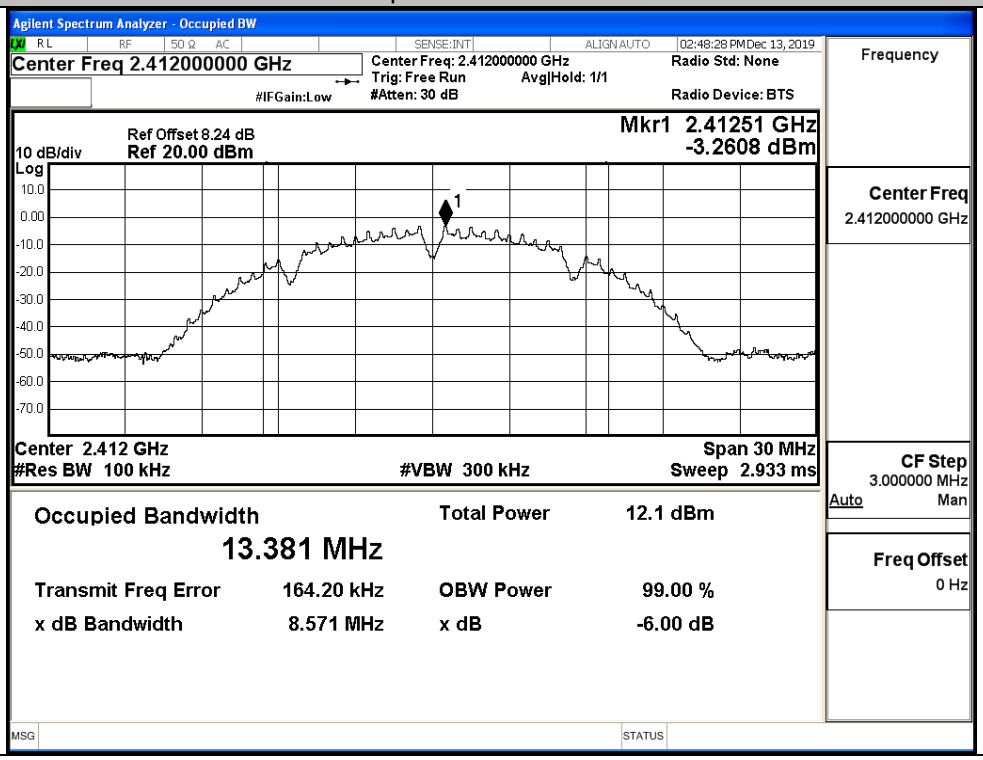
11N20SISO/MCH		
11N20SISO/HCH		

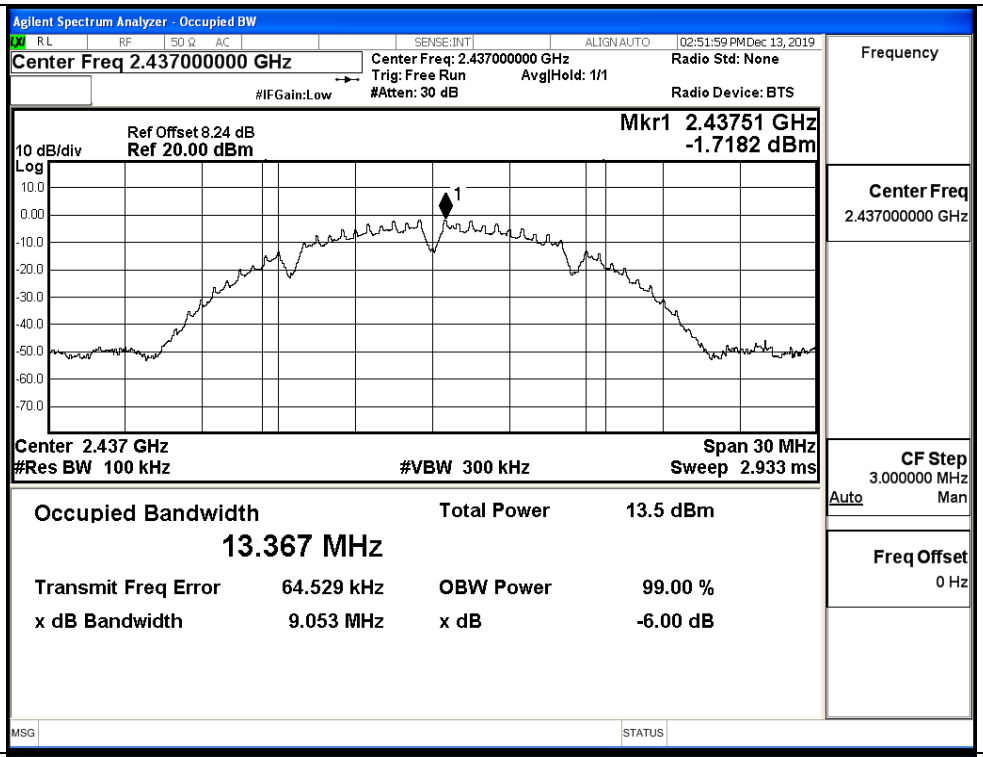
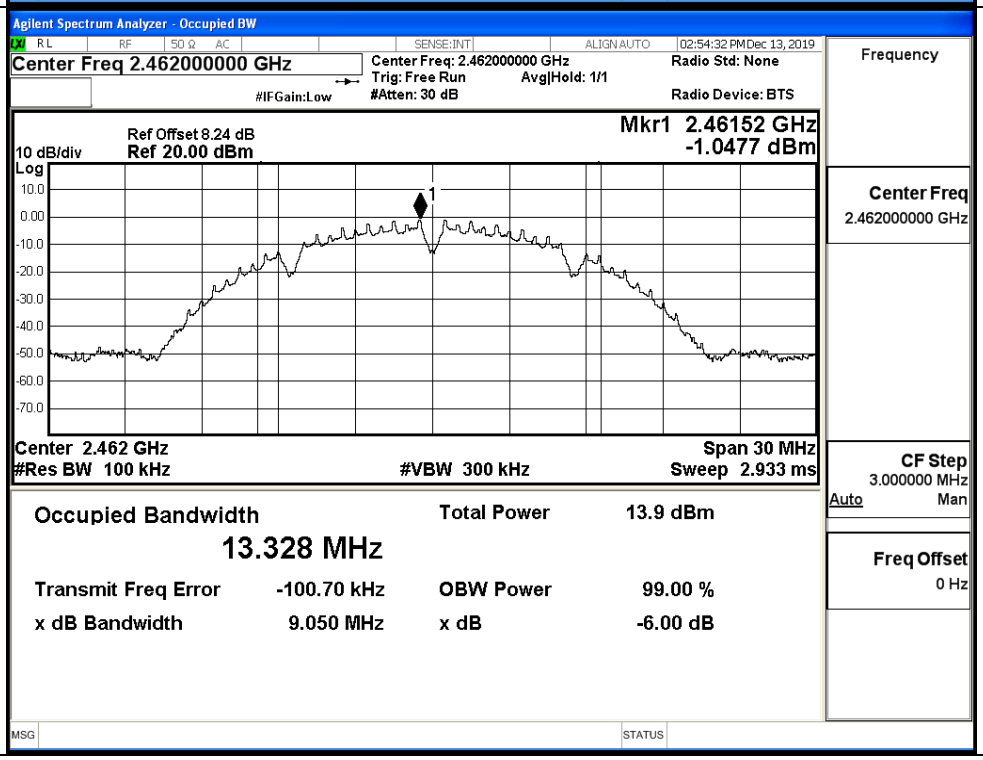
C.4 6dB Bandwidth

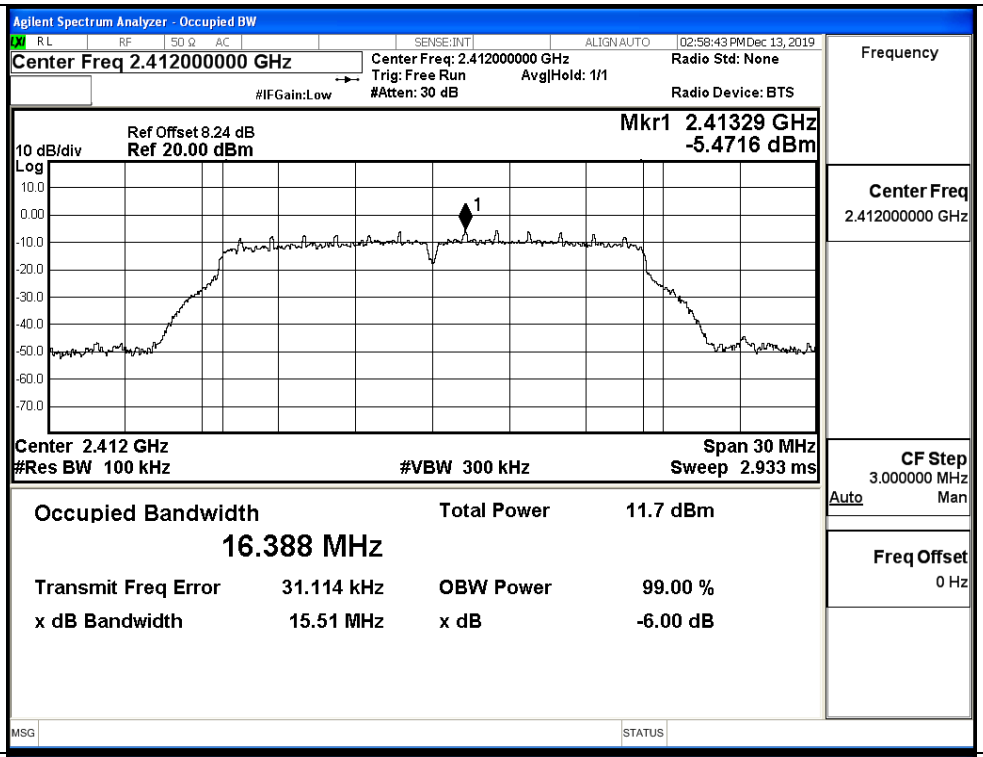
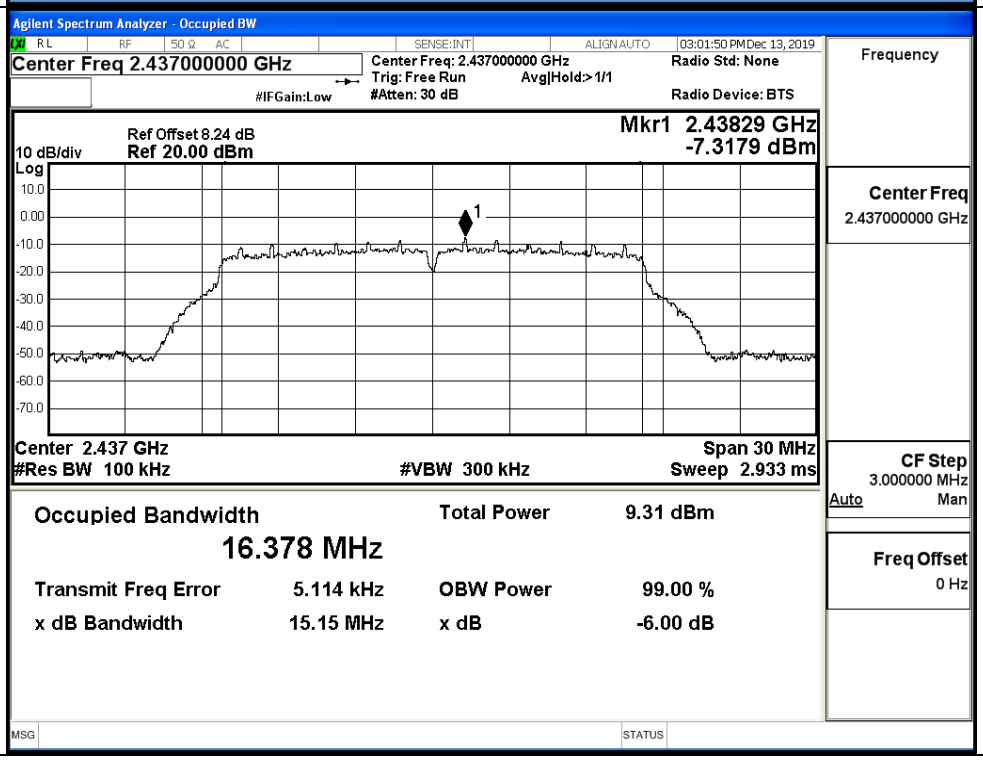
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	8.571	≥0.5	PASS
	MCH	9.053	≥0.5	PASS
	HCH	9.050	≥0.5	PASS
11G	LCH	15.51	≥0.5	PASS
	MCH	15.15	≥0.5	PASS
	HCH	15.13	≥0.5	PASS
11N20SISO	LCH	15.99	≥0.5	PASS
	MCH	15.99	≥0.5	PASS
	HCH	16.11	≥0.5	PASS

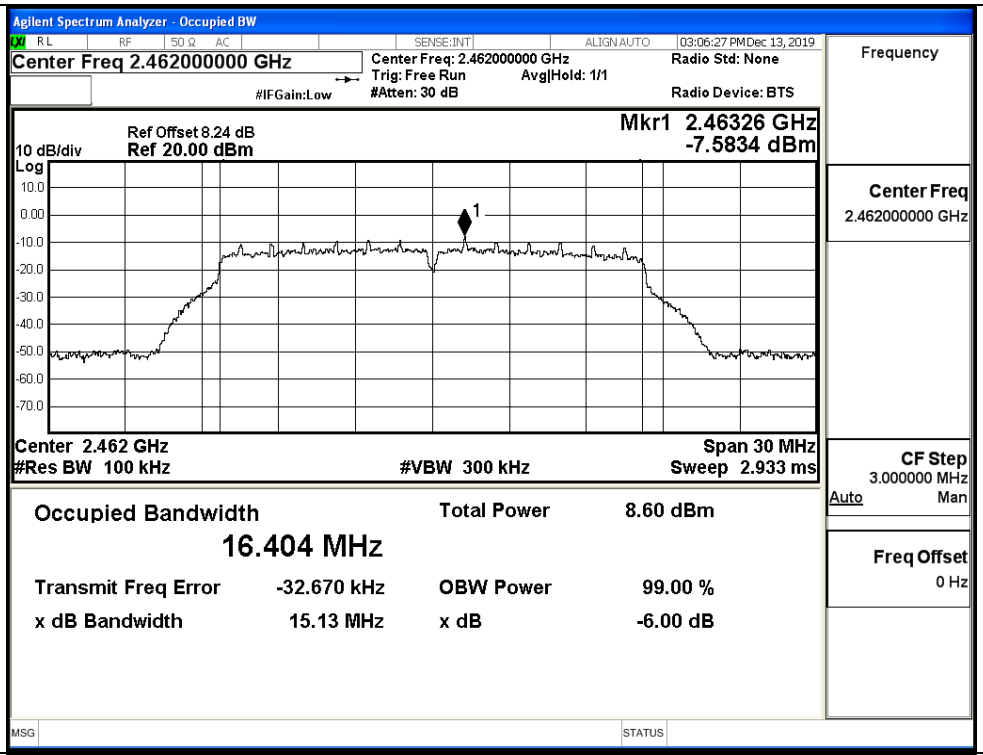
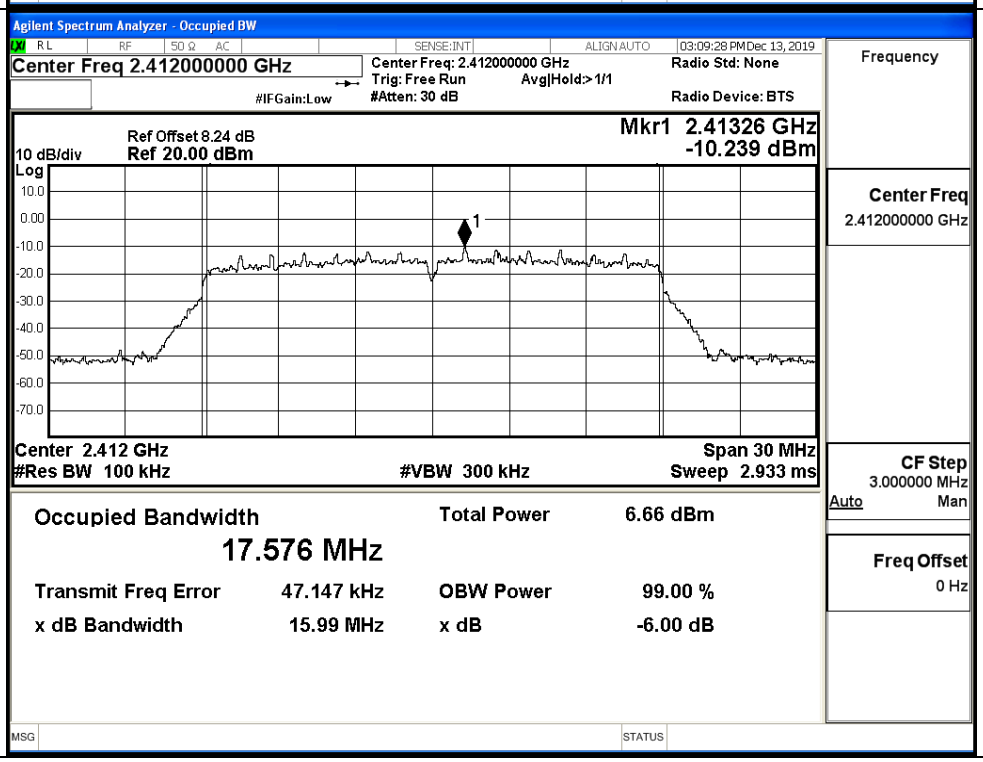
Test Graphs

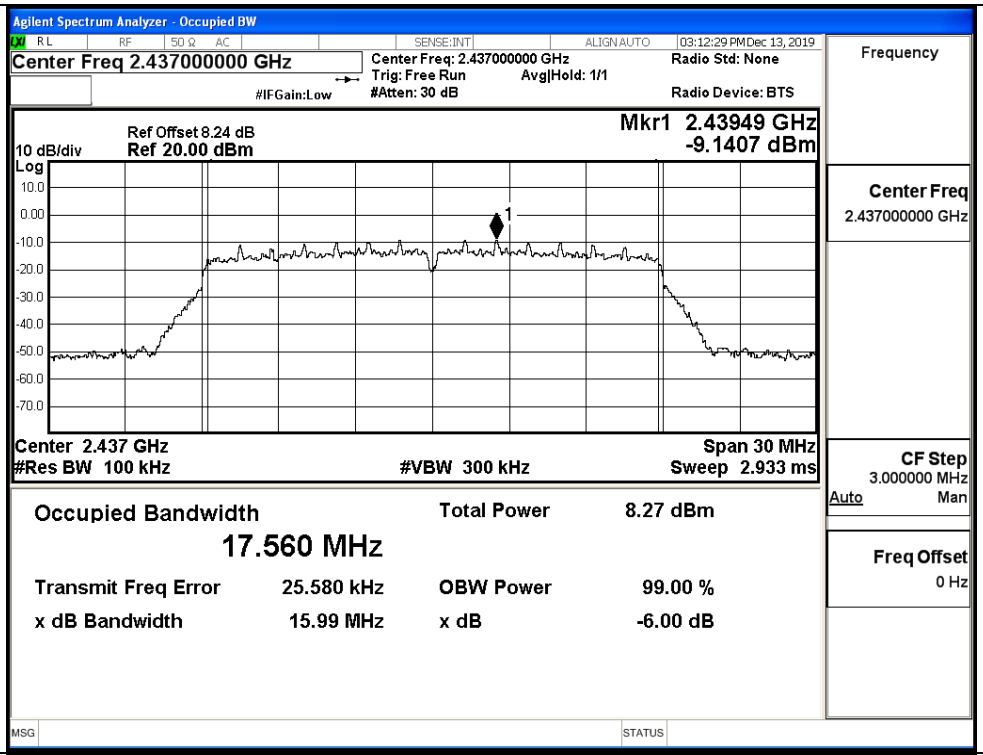
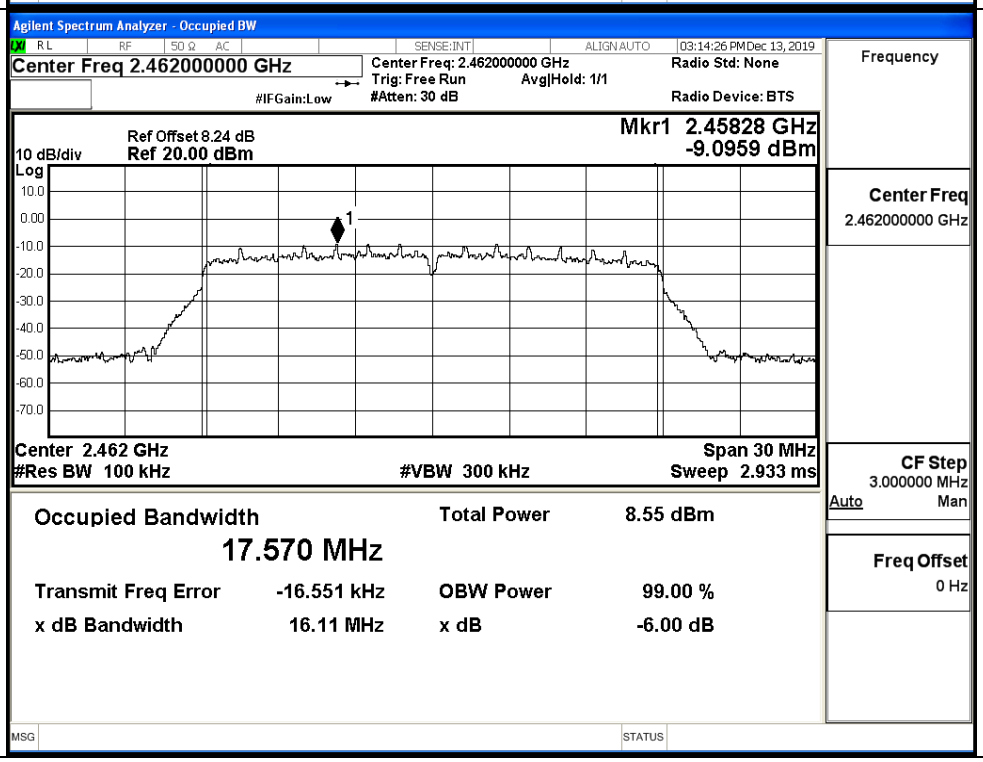
11B/LCH



11B/MCH	
11B/HCH	

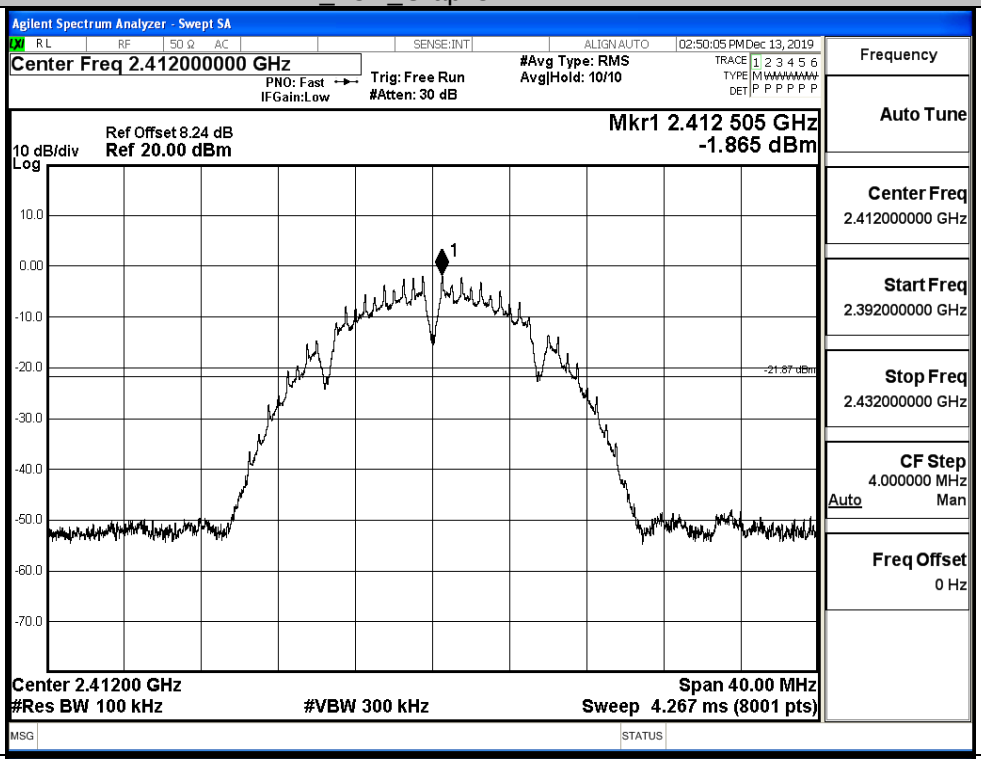
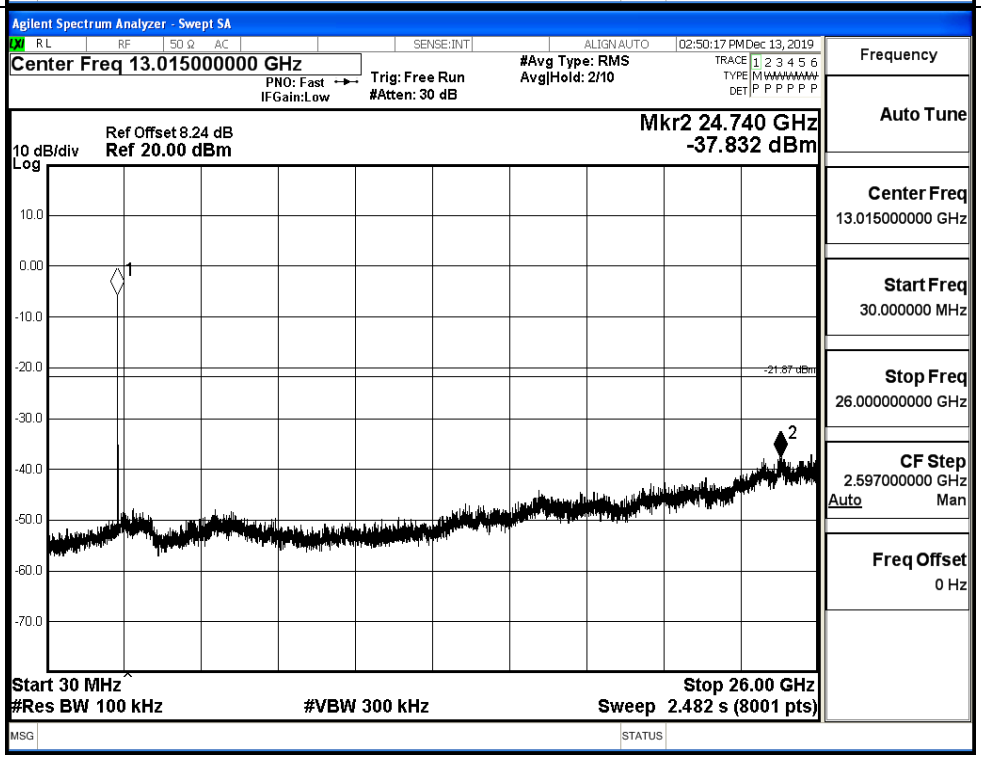
11G/LCH	
11G/MCH	

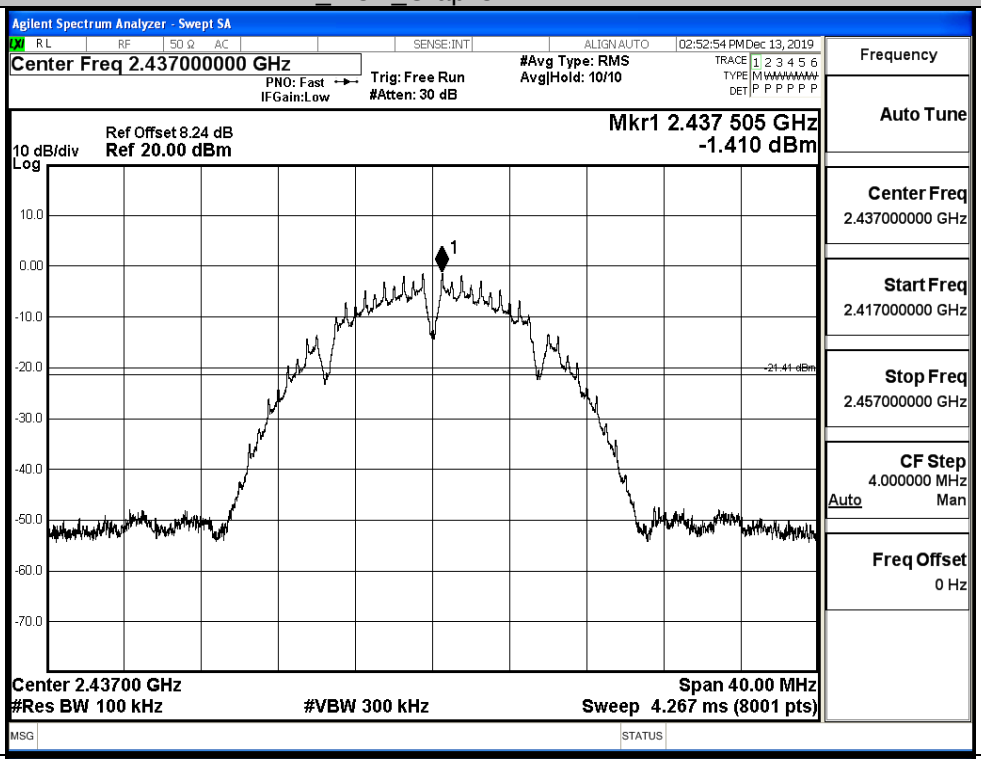
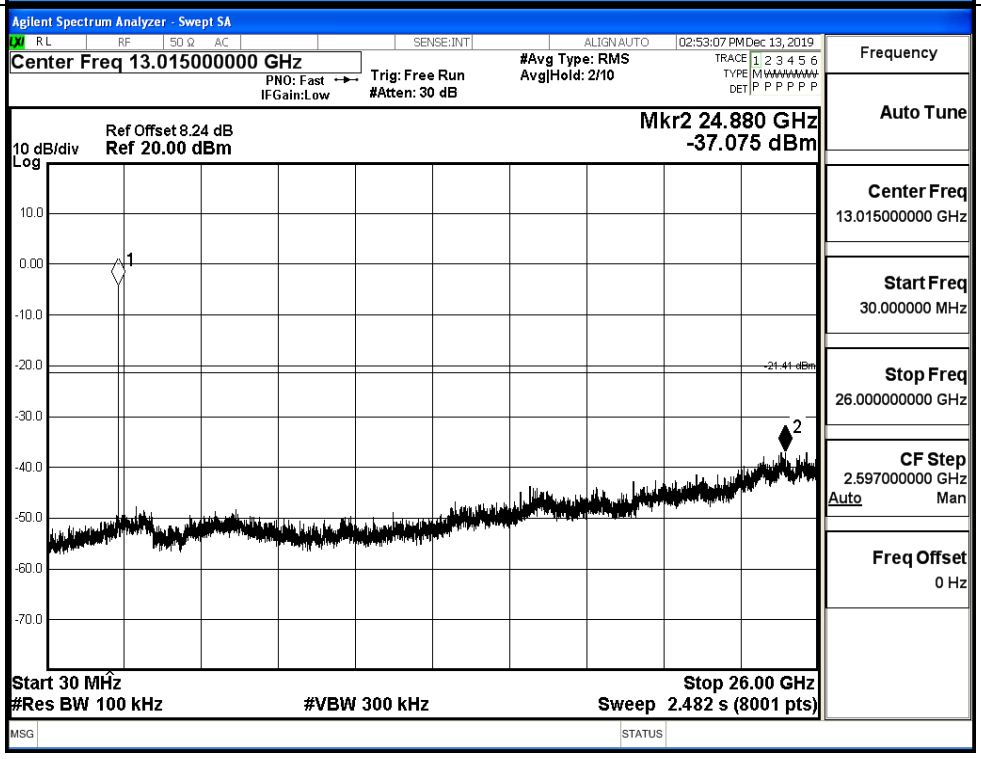
11G/HCH	
11N20SISO/LCH	

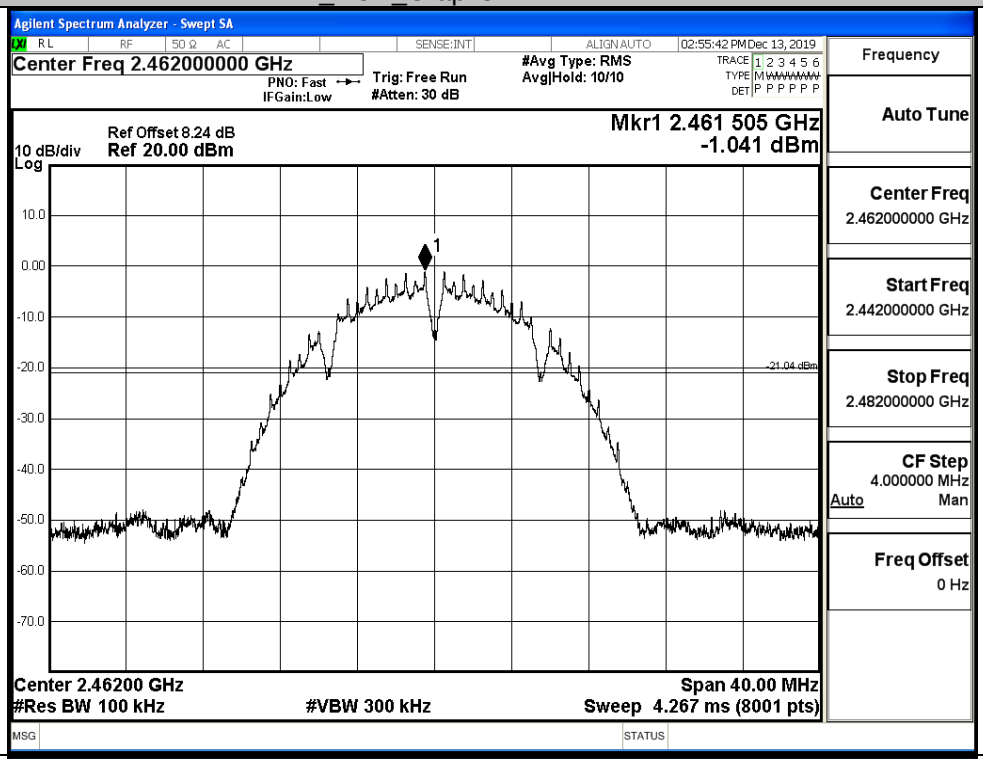
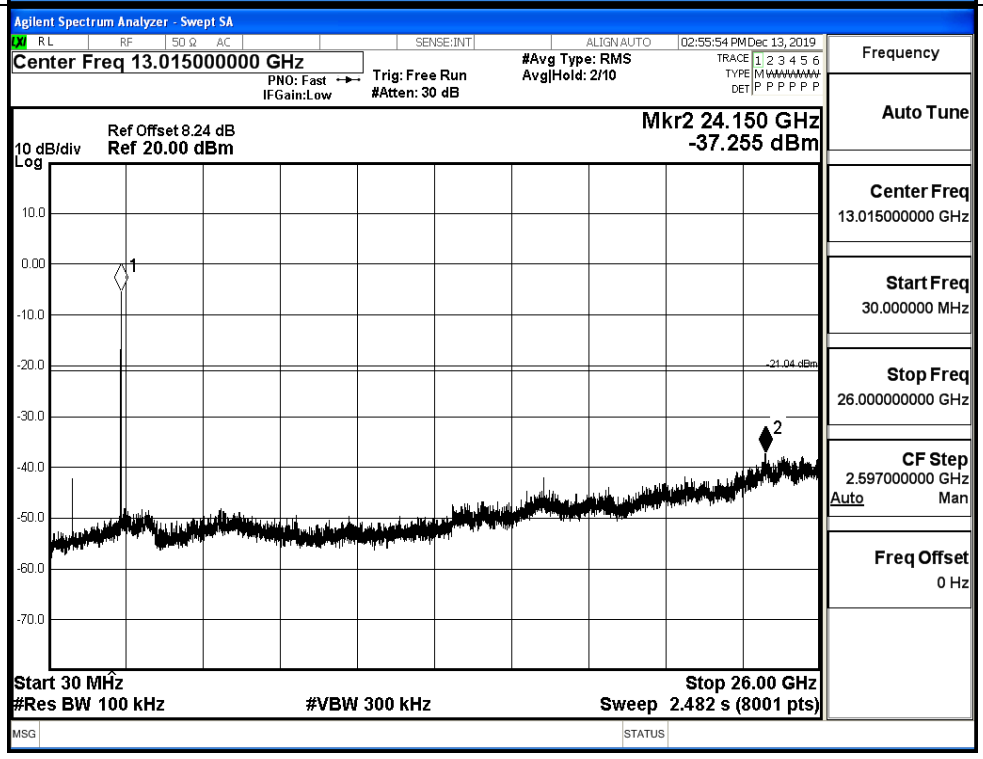
11N20SISO/MCH	
11N20SISO/HCH	

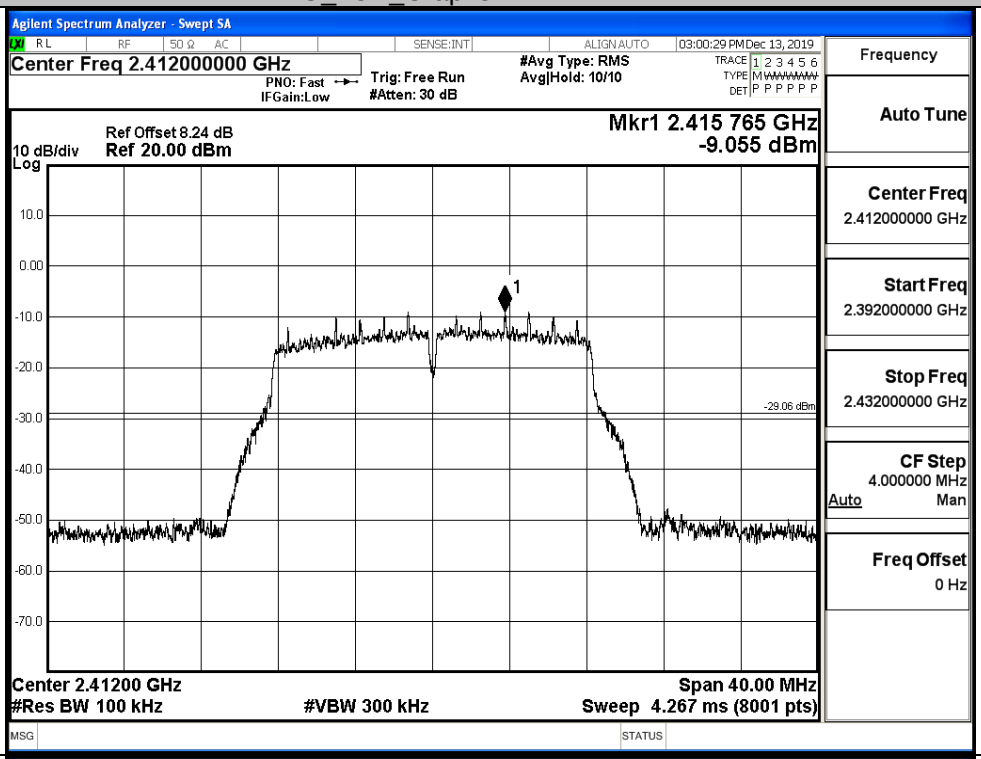
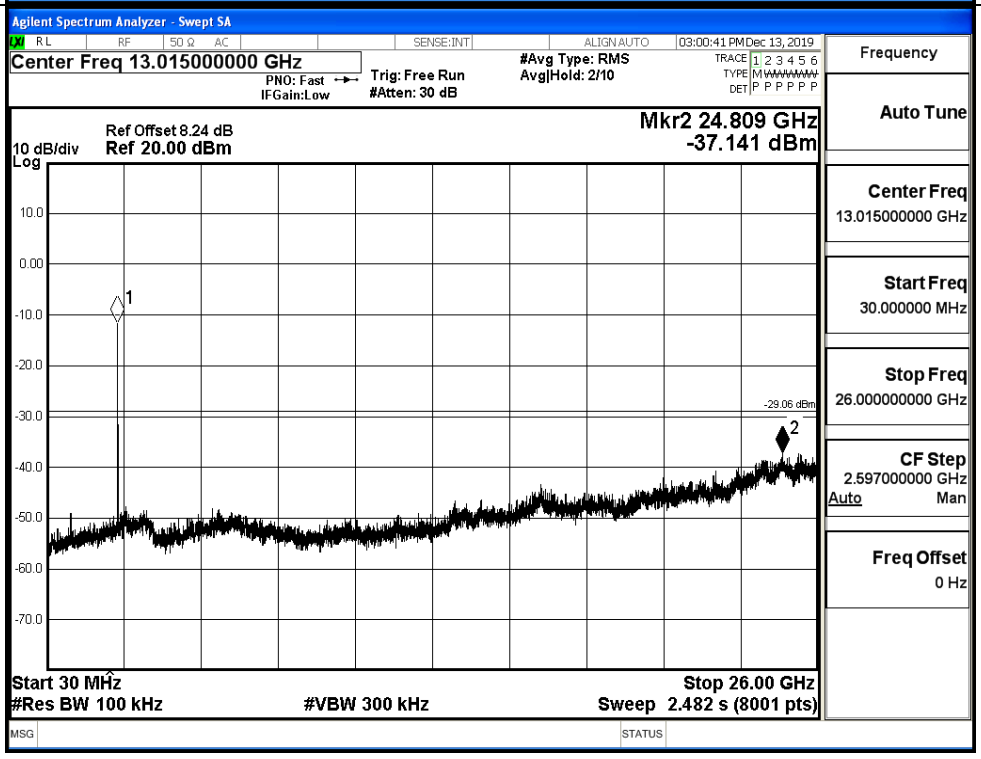
C.5 RF Conducted Spurious Emissions

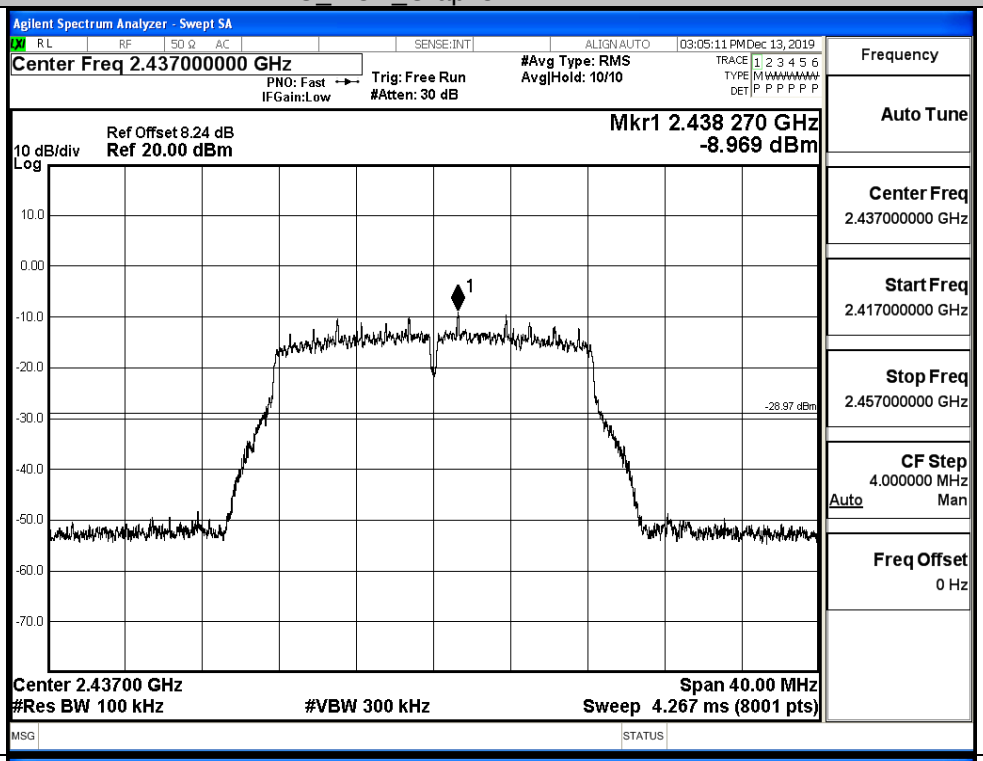
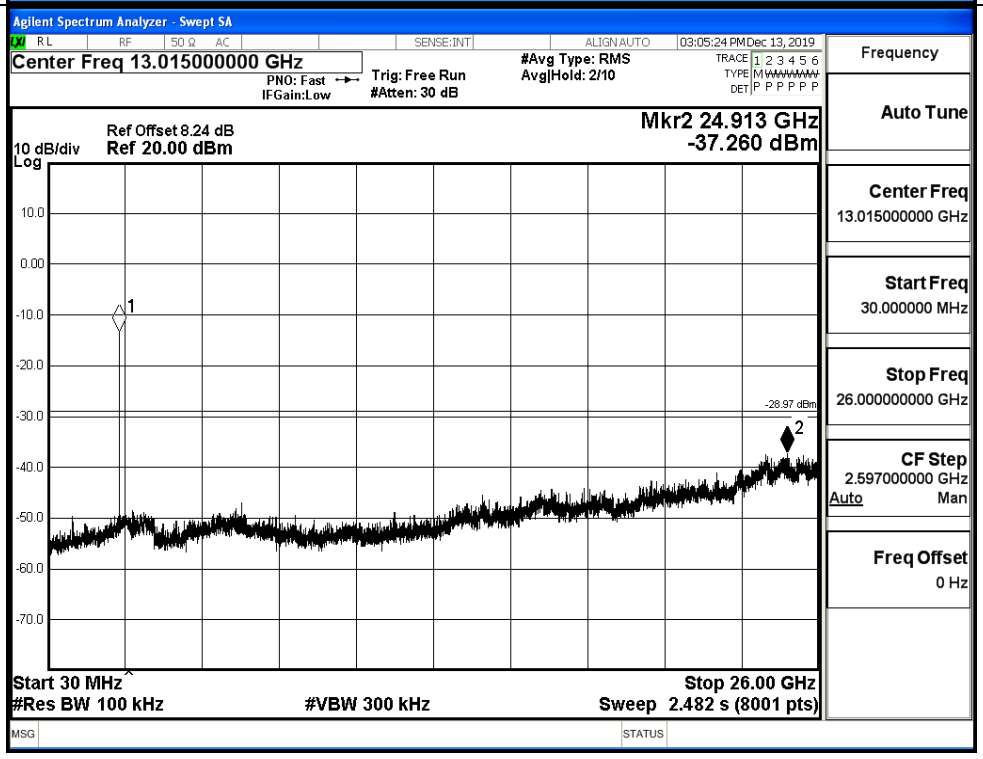
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-1.865	-37.832	-21.865	PASS
	MCH	-1.41	-37.075	-21.410	PASS
	HCH	-1.041	-37.255	-21.041	PASS
11G	LCH	-9.055	-37.141	-29.055	PASS
	MCH	-8.969	-37.260	-28.969	PASS
	HCH	-9.322	-38.013	-29.322	PASS
11N20 SISO	LCH	-9.682	-37.817	-29.682	PASS
	MCH	-9.232	-37.163	-29.232	PASS
	HCH	-9.434	-37.300	-29.434	PASS

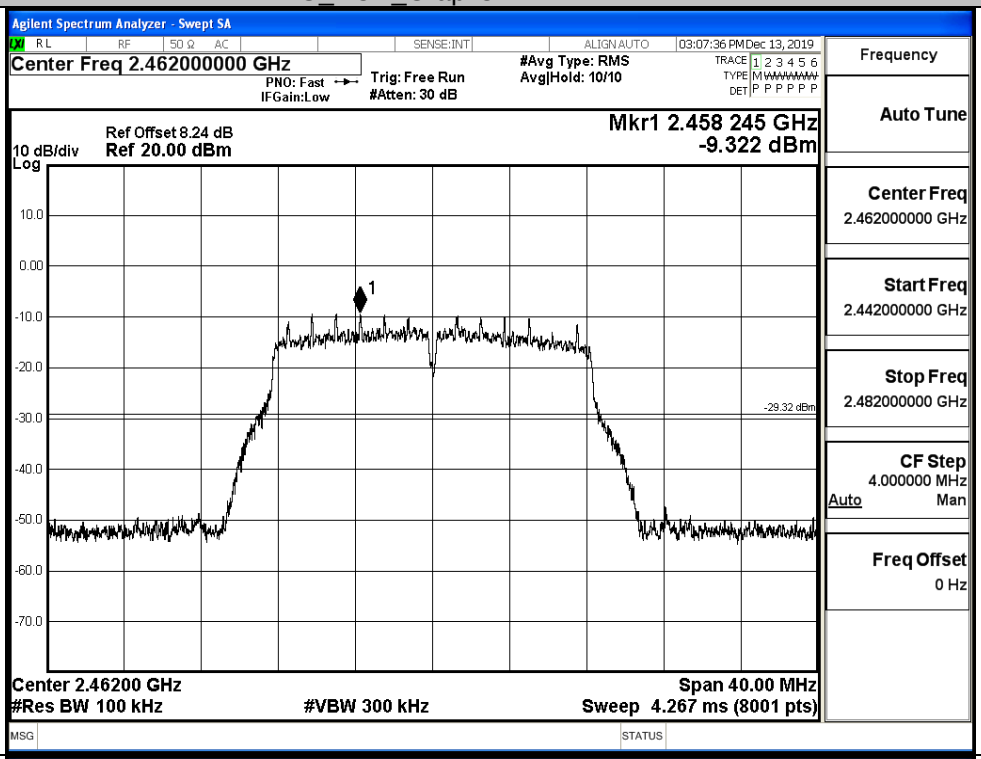
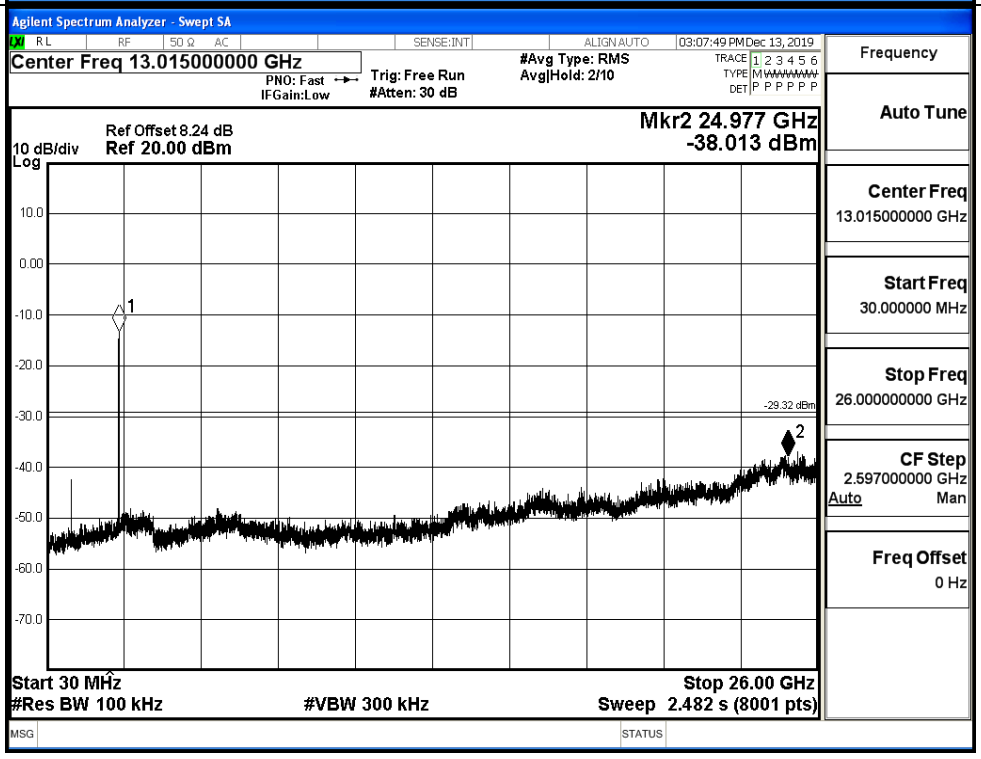
11B_LCH_Graphs	
Pref/11B/LCH	
Puw/11B/LCH	

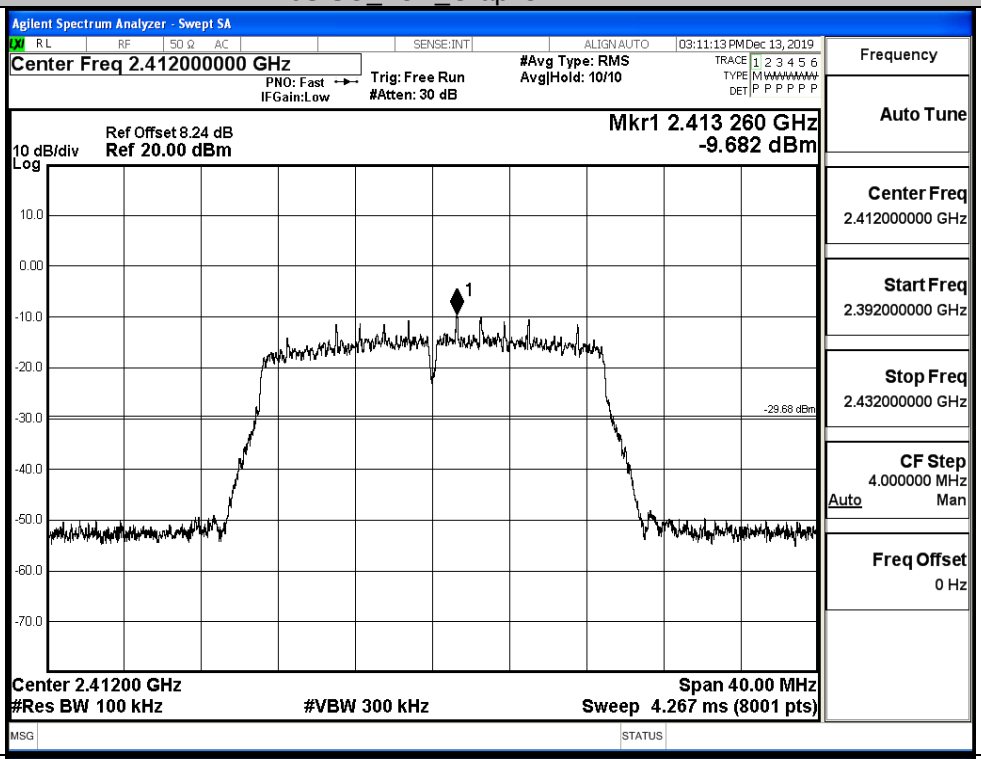
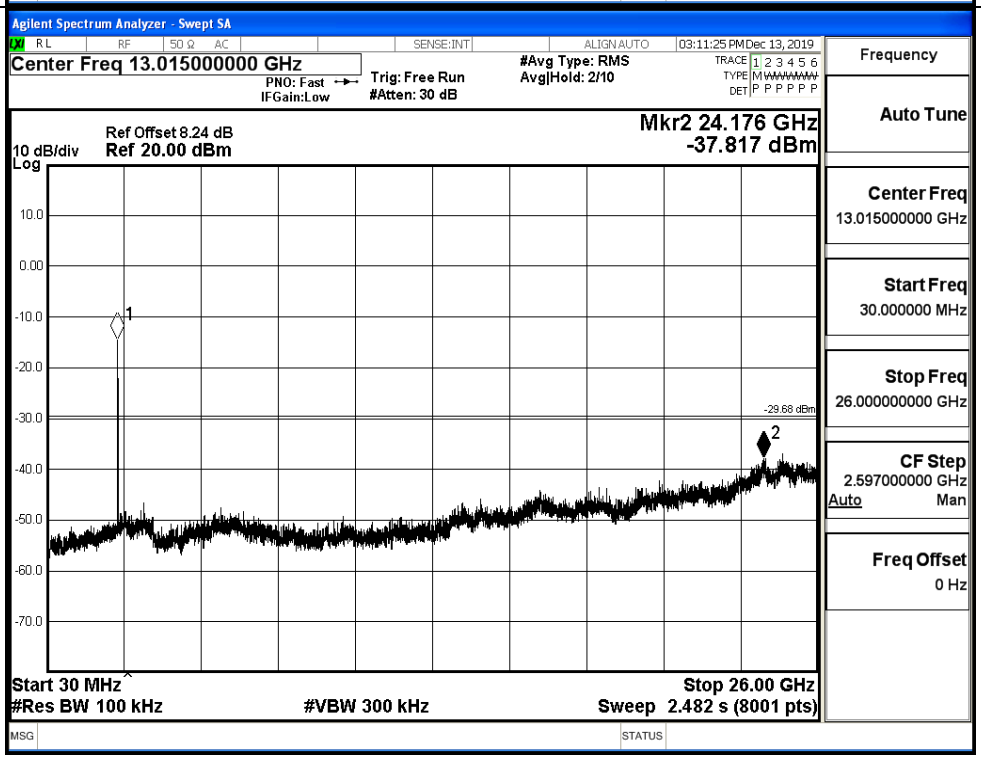
11B_MCH_Graphs	
Pref/11B/MCH	
Puw/11B/MCH	

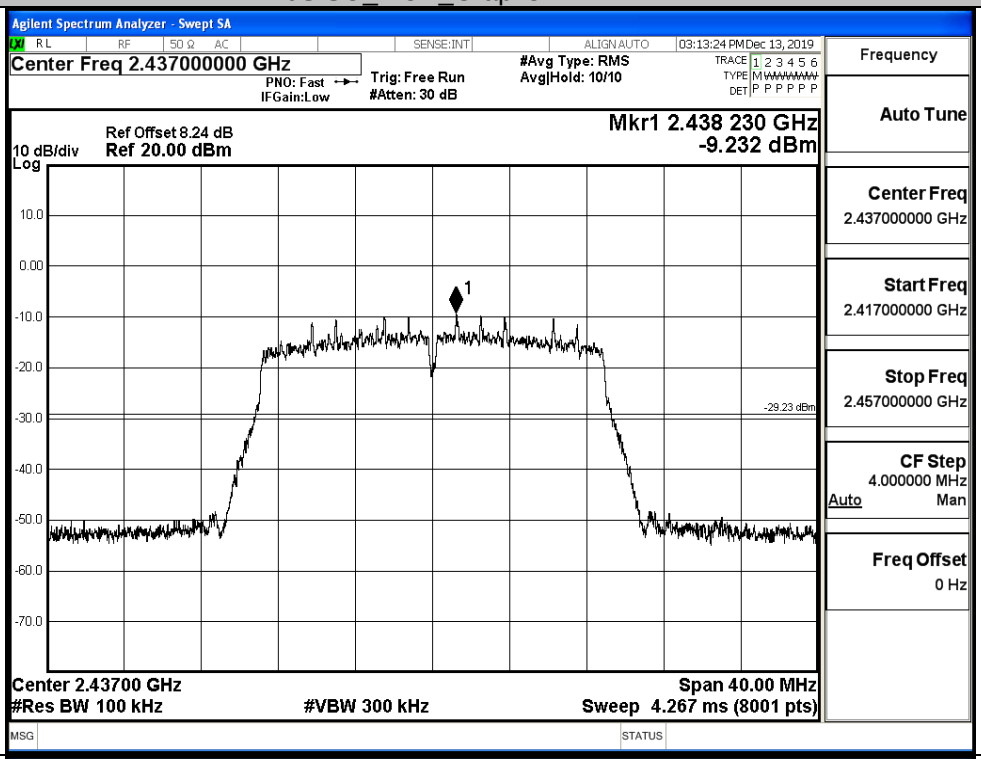
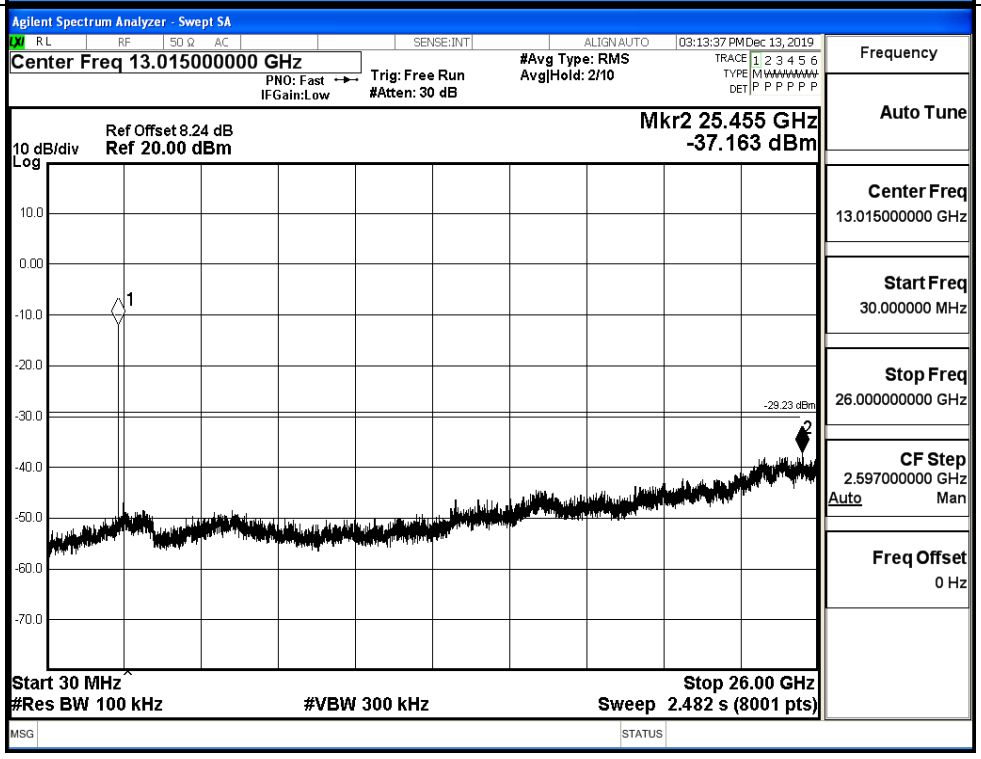
11B_HCH_Graphs	
Pref/11B/HCH	
Puw/11B/HCH	

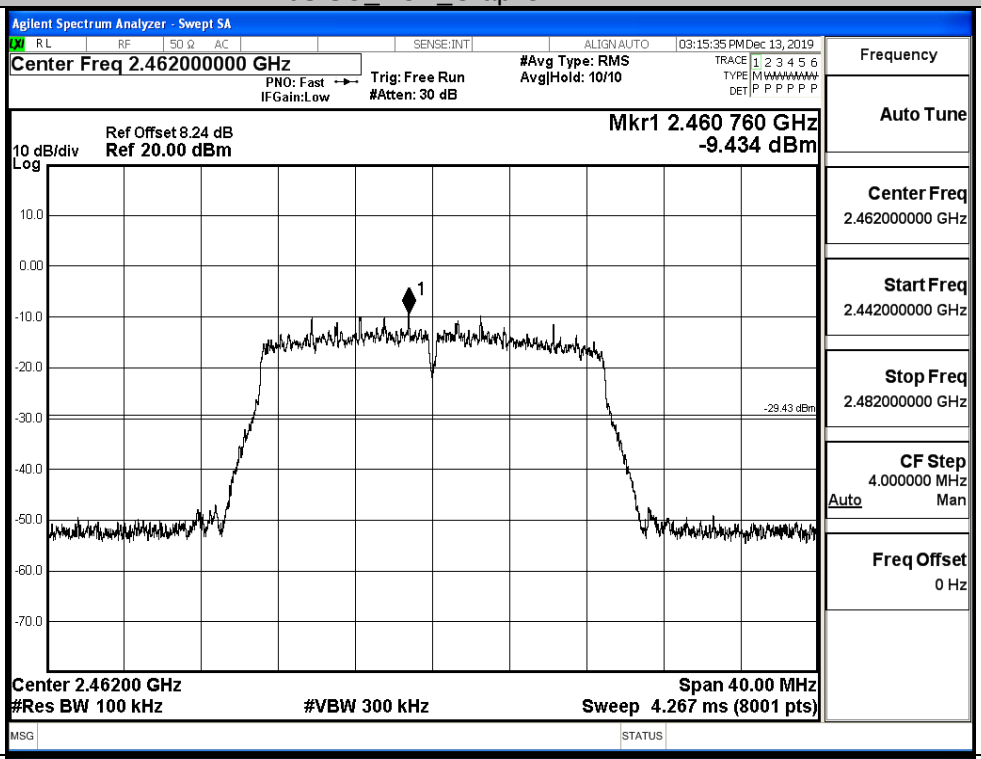
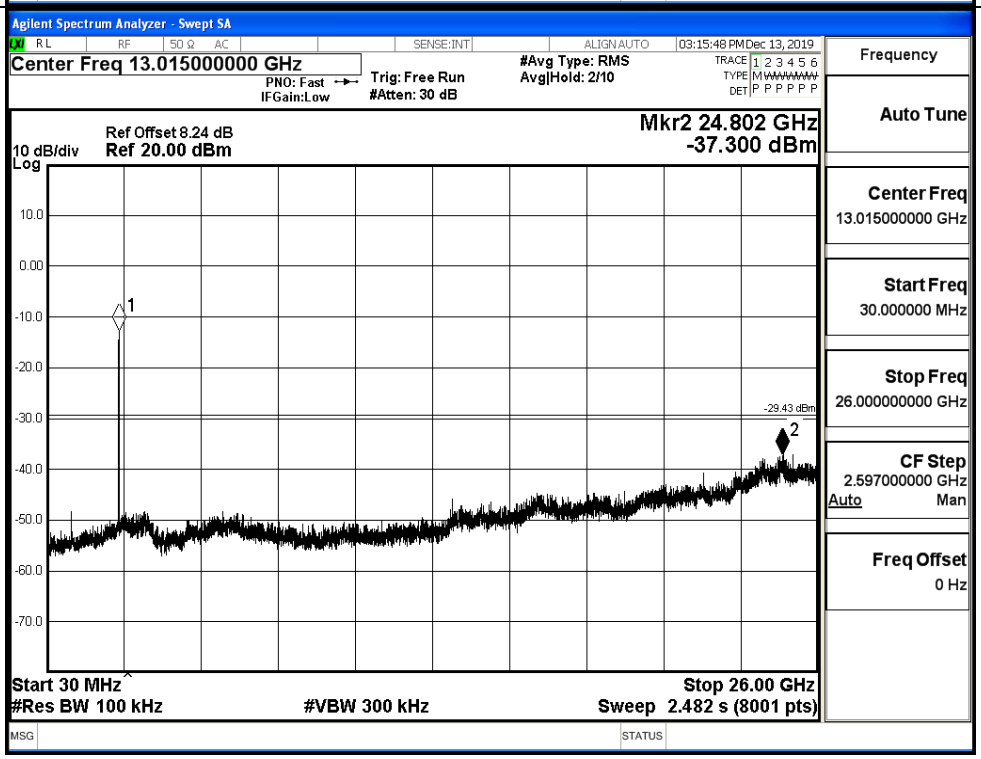
11G_LCH_Graphs	
Pref/11G/LCH	
Puw/11G/LCH	

11G_MCH_Graphs	
Pref/11G/MCH	
Puw/11G/MCH	

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

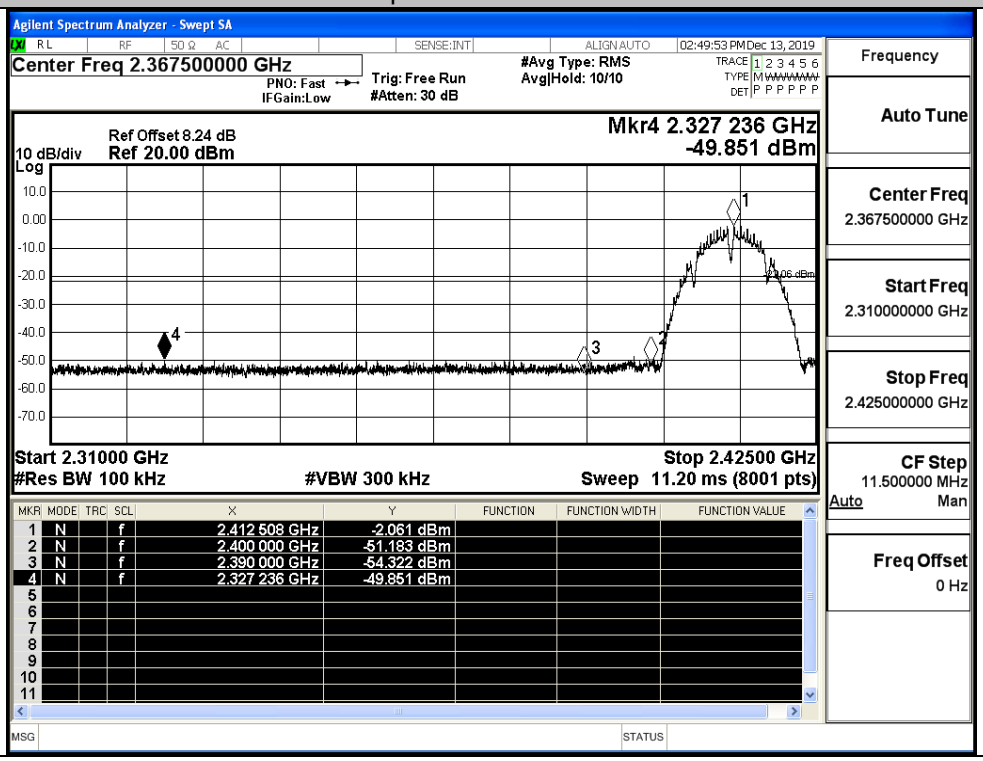
11N20SISO_LCH_Graphs	
Pref/11N20SISO/LCH	
Puw/11N20SISO/LCH	

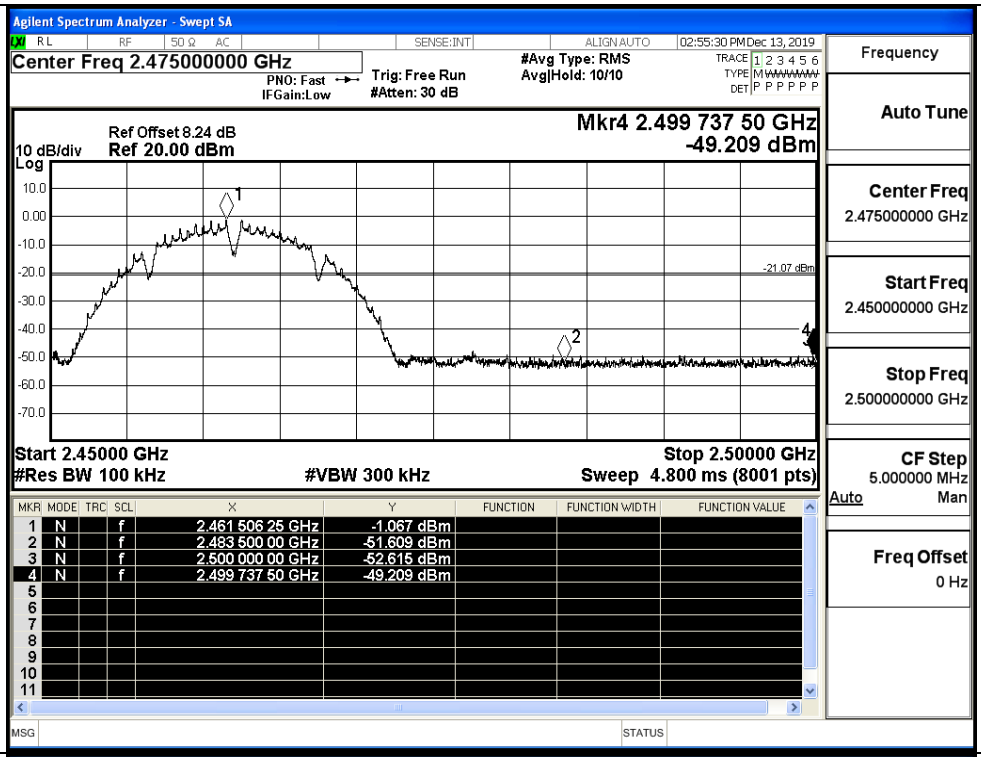
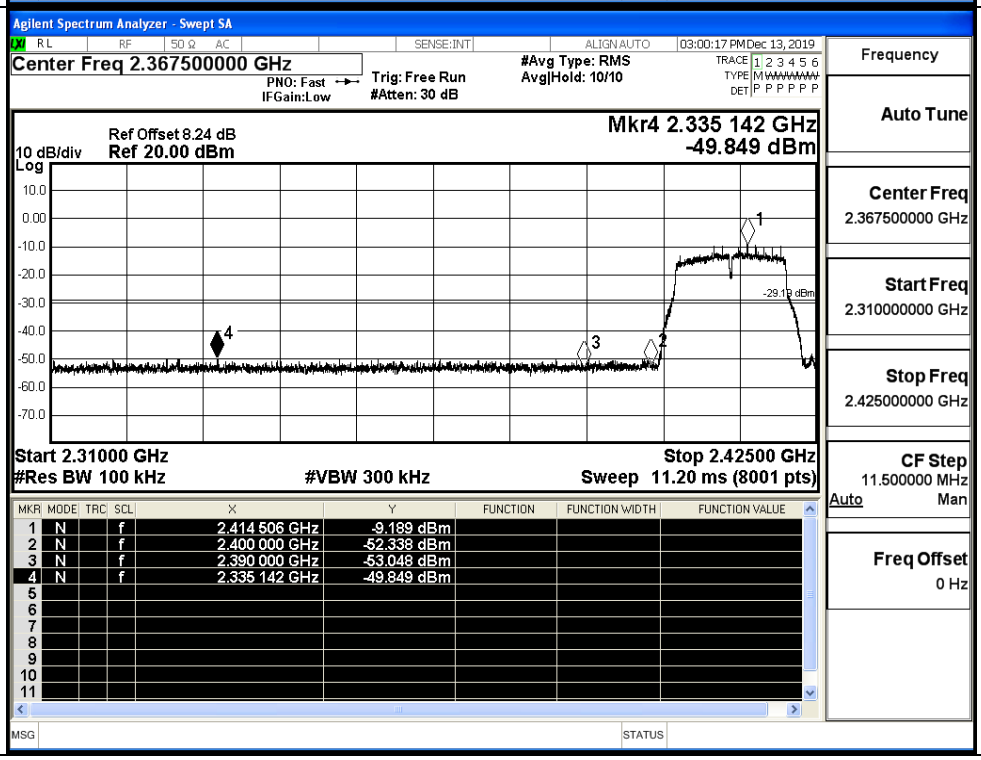
11N20SISO_MCH_Graphs	
Pref/11N20 SISO/MCH	
Puw/11N20 SISO/MCH	

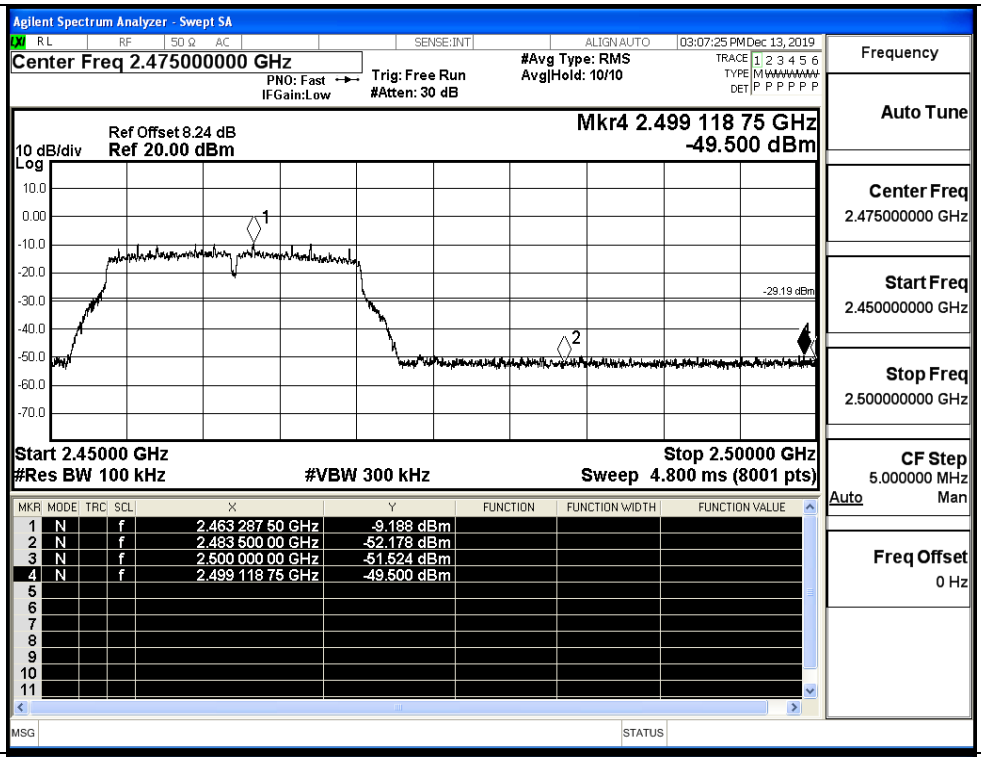
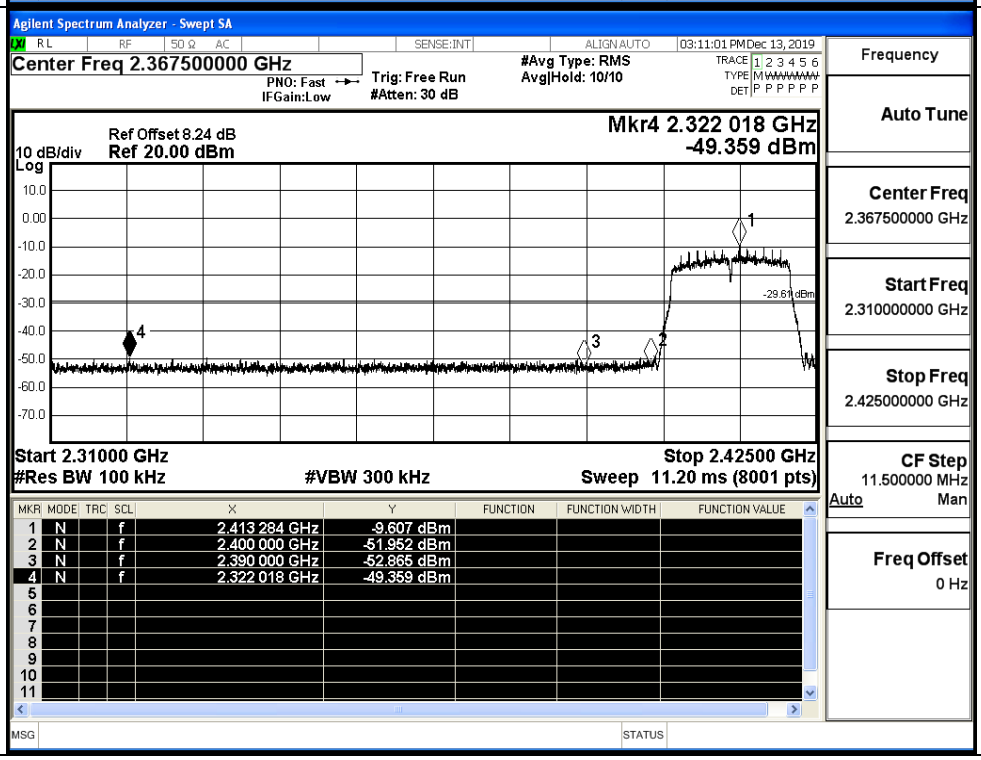
11N20SISO_HCH_Graphs	
Pref/11N20 SISO/HCH	
Puw/11N20 SISO/HCH	

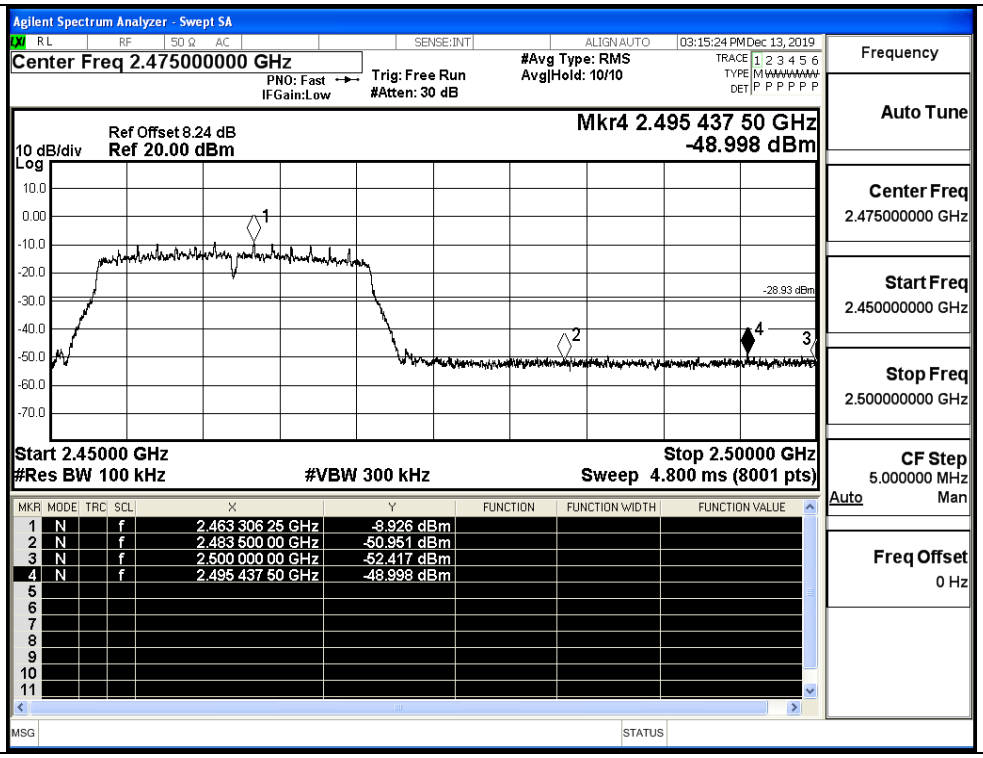
C.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-2.061	-49.851	-22.06	PASS
	HCH	-1.067	-49.209	-21.07	PASS
11G	LCH	-9.189	-49.849	-29.19	PASS
	HCH	-9.188	-49.500	-29.19	PASS
11N20SISO	LCH	-9.607	-49.359	-29.61	PASS
	HCH	-8.926	-48.998	-28.93	PASS

Test Graphs	
11B/LCH	

11B/HCH	
11G/LCH	

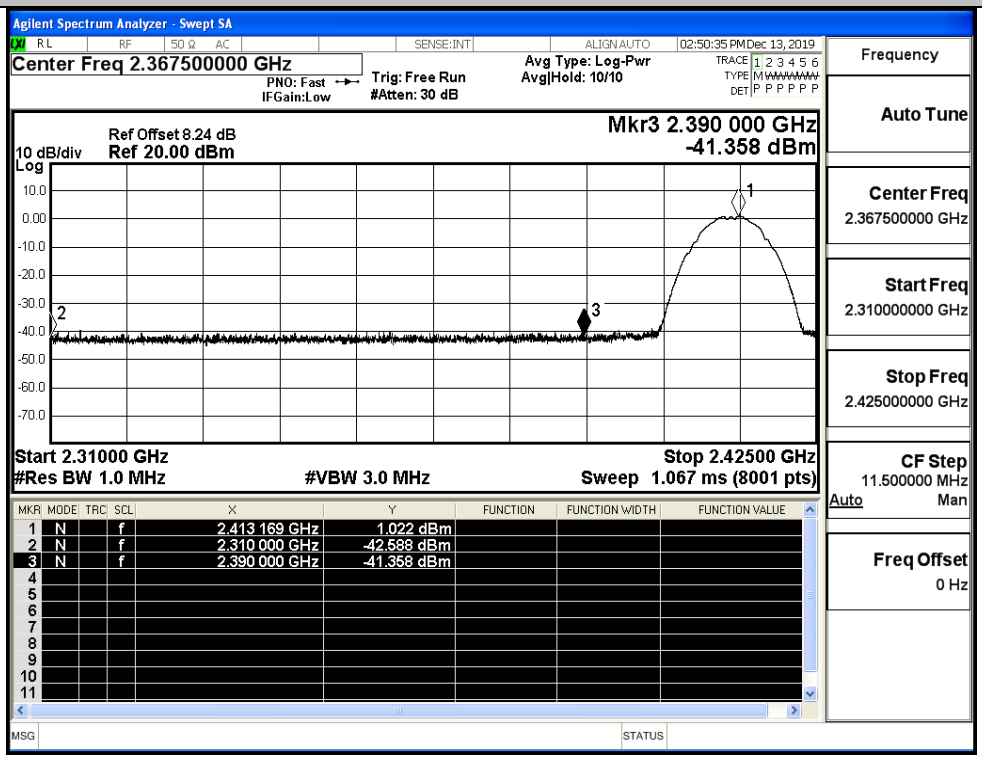
11G/HCH	
11N20SISO/LCH	

11N20SISO/HCH	

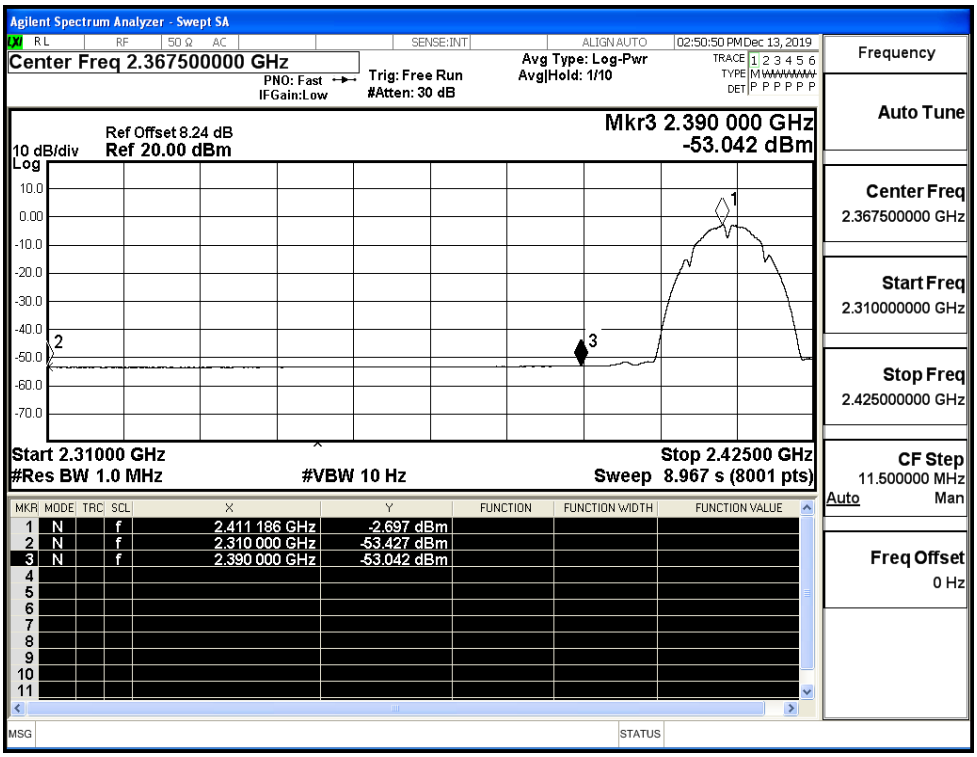
C.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-42.59	2.0	0	52.67	PEAK	74	PASS
	2412	Ant1	2310.0	-53.43	2.0	0	41.83	AV	54	PASS
	2412	Ant1	2390.0	-41.36	2.0	0	53.90	PEAK	74	PASS
	2412	Ant1	2390.0	-53.04	2.0	0	42.22	AV	54	PASS
	2462	Ant1	2483.5	-42.09	2.0	0	53.17	PEAK	74	PASS
	2462	Ant1	2483.5	-52.69	2.0	0	42.57	AV	54	PASS
	2462	Ant1	2500.0	-42.81	2.0	0	52.45	PEAK	74	PASS
	2462	Ant1	2500.0	-52.46	2.0	0	42.80	AV	54	PASS
11G	2412	Ant1	2310.0	-42.75	2.0	0	52.51	PEAK	74	PASS
	2412	Ant1	2310.0	-53.41	2.0	0	41.85	AV	54	PASS
	2412	Ant1	2390.0	-42.52	2.0	0	52.74	PEAK	74	PASS
	2412	Ant1	2390.0	-53.00	2.0	0	42.26	AV	54	PASS
	2462	Ant1	2483.5	-42.19	2.0	0	53.07	PEAK	74	PASS
	2462	Ant1	2483.5	-52.61	2.0	0	42.65	AV	54	PASS
	2462	Ant1	2500.0	-41.84	2.0	0	53.41	PEAK	74	PASS
	2462	Ant1	2500.0	-52.42	2.0	0	42.84	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-43.08	2.0	0	52.18	PEAK	74	PASS
	2412	Ant1	2310.0	-53.45	2.0	0	41.81	AV	54	PASS
	2412	Ant1	2390.0	-42.61	2.0	0	52.64	PEAK	74	PASS
	2412	Ant1	2390.0	-53.08	2.0	0	42.18	AV	54	PASS
	2462	Ant1	2483.5	-41.63	2.0	0	53.63	PEAK	74	PASS
	2462	Ant1	2483.5	-52.65	2.0	0	42.61	AV	54	PASS
	2462	Ant1	2500.0	-42.57	2.0	0	52.69	PEAK	74	PASS
	2462	Ant1	2500.0	-52.46	2.0	0	42.80	AV	54	PASS

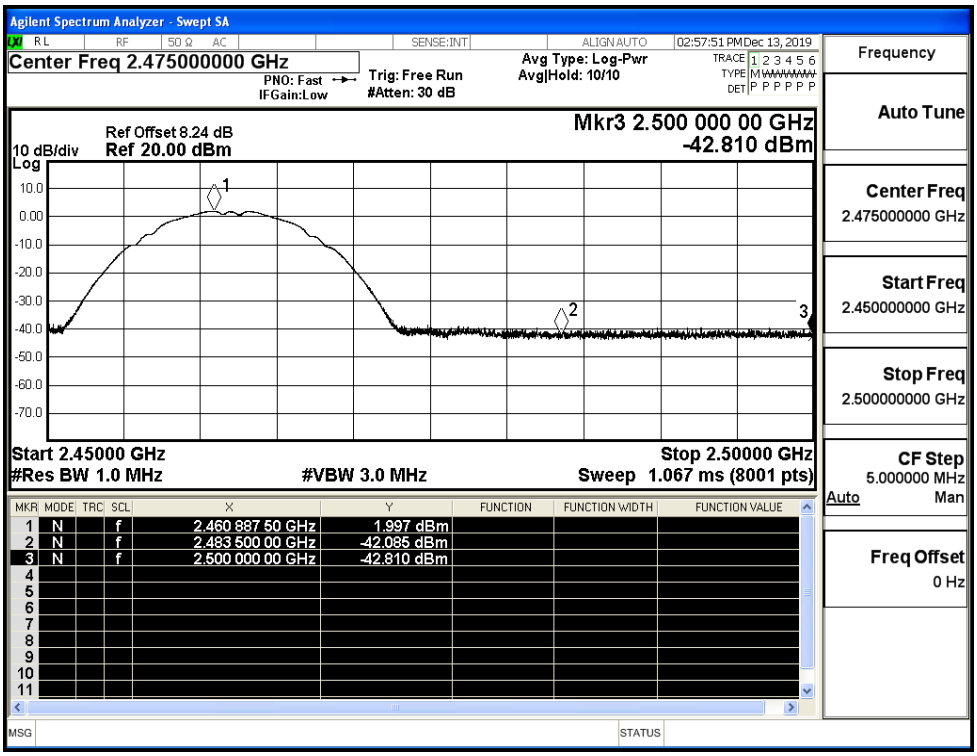
Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



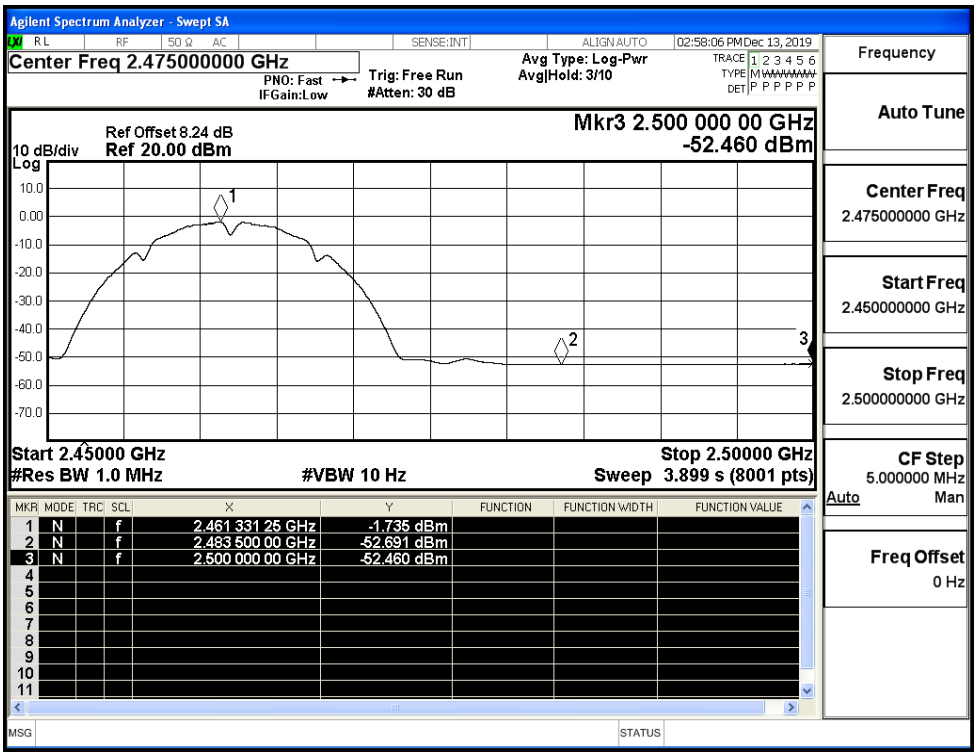
Restrict-band band-edge measurements_11B_2412_Ant1_AV



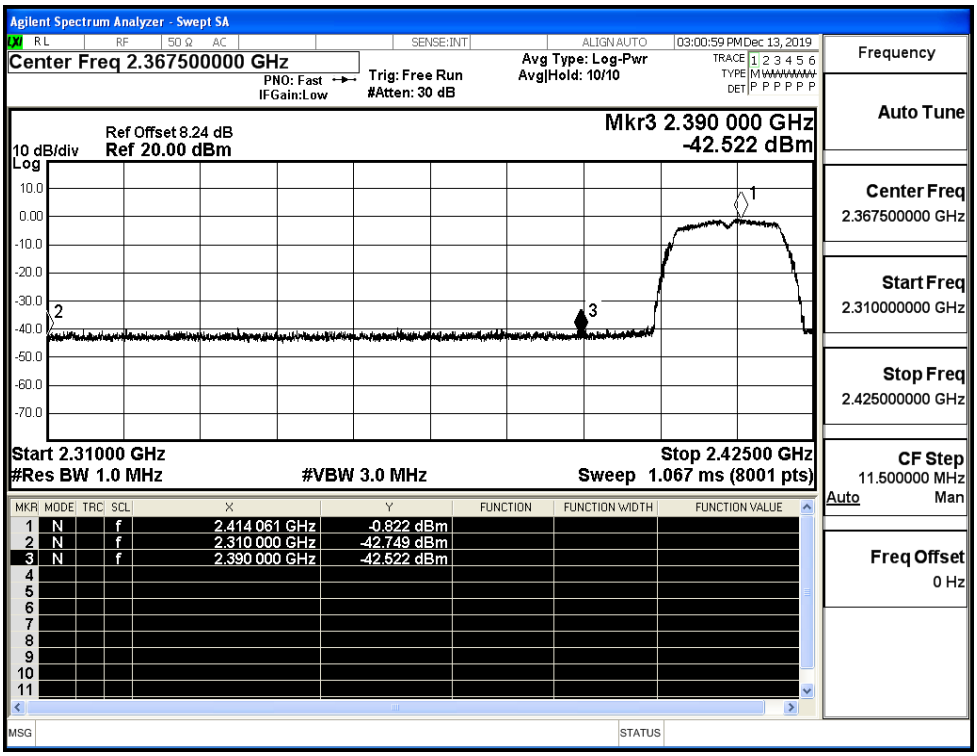
Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



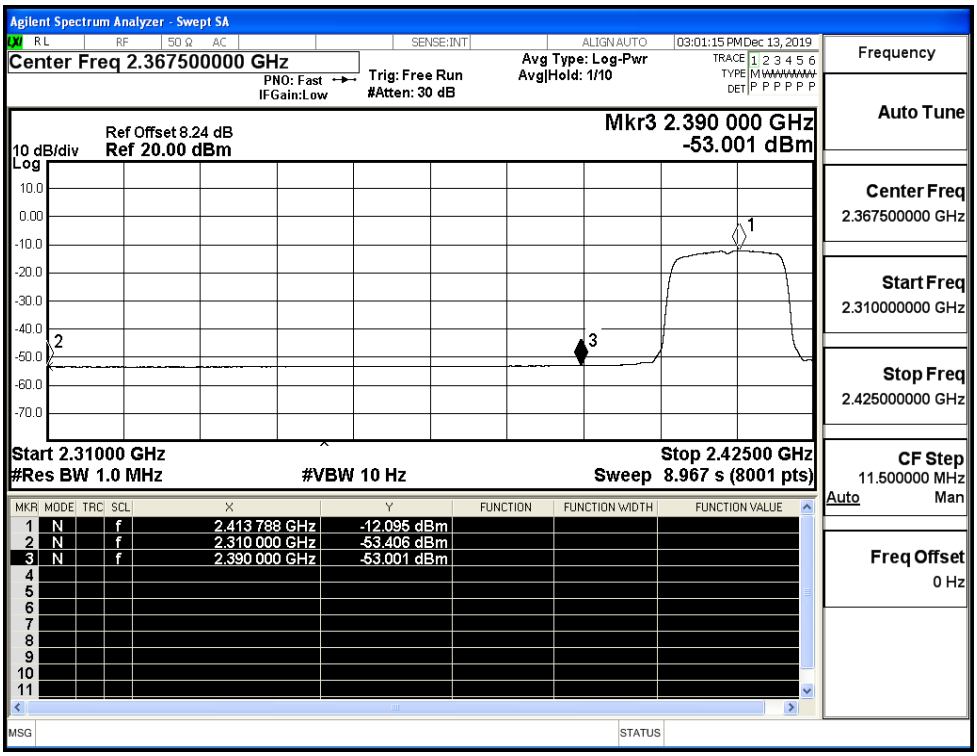
Restrict-band band-edge measurements_11B_2462_Ant1_AV



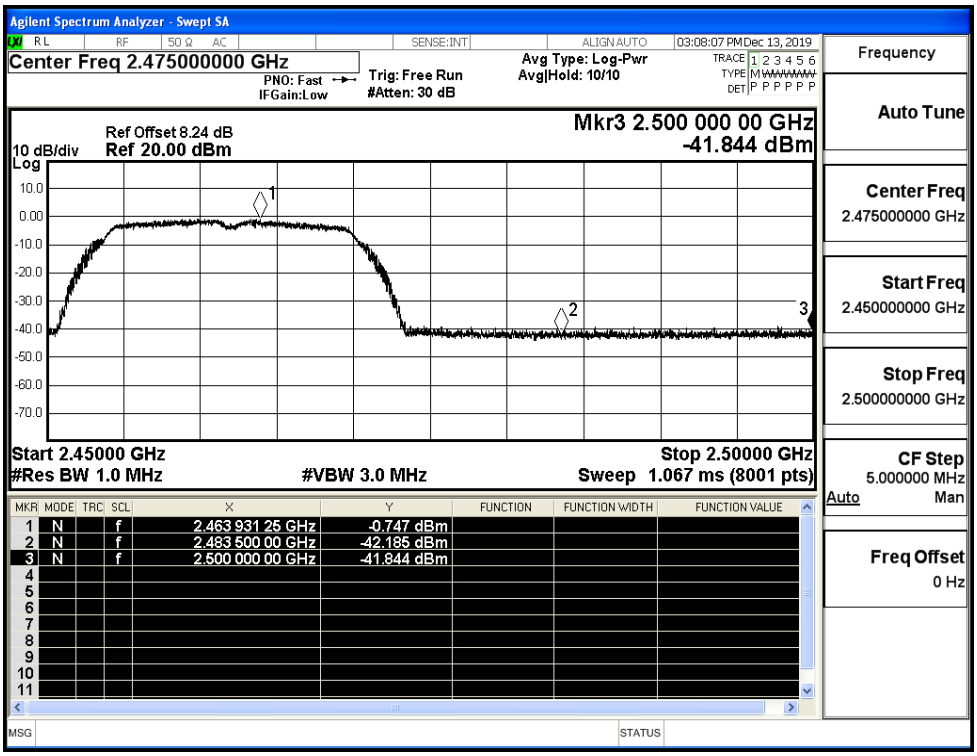
Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



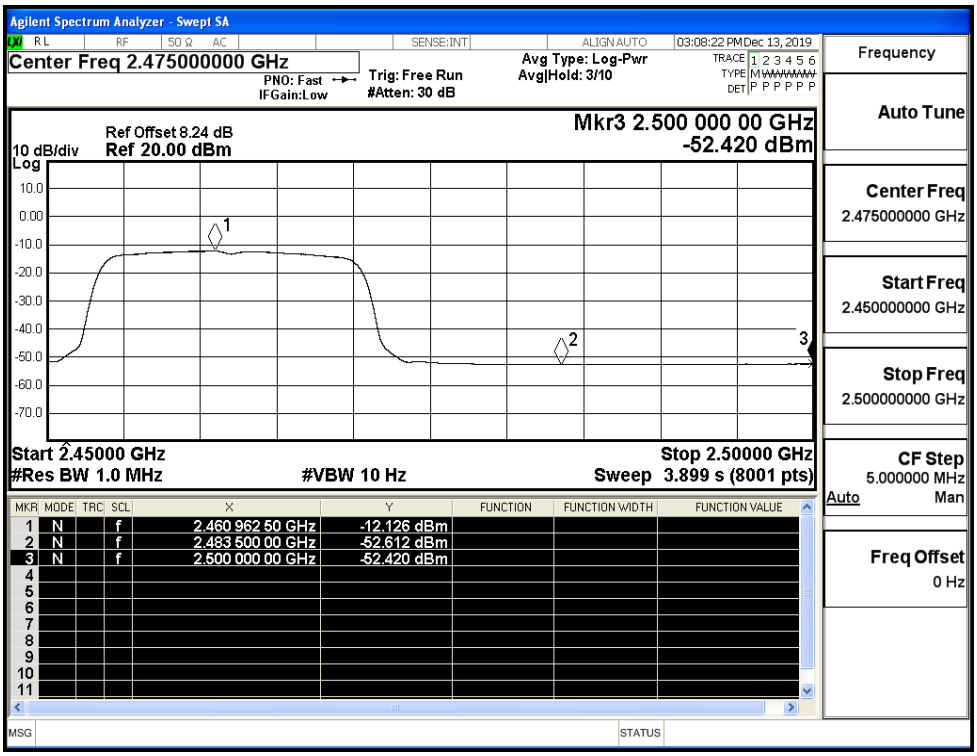
Restrict-band band-edge measurements_11G_2412_Ant1_AV



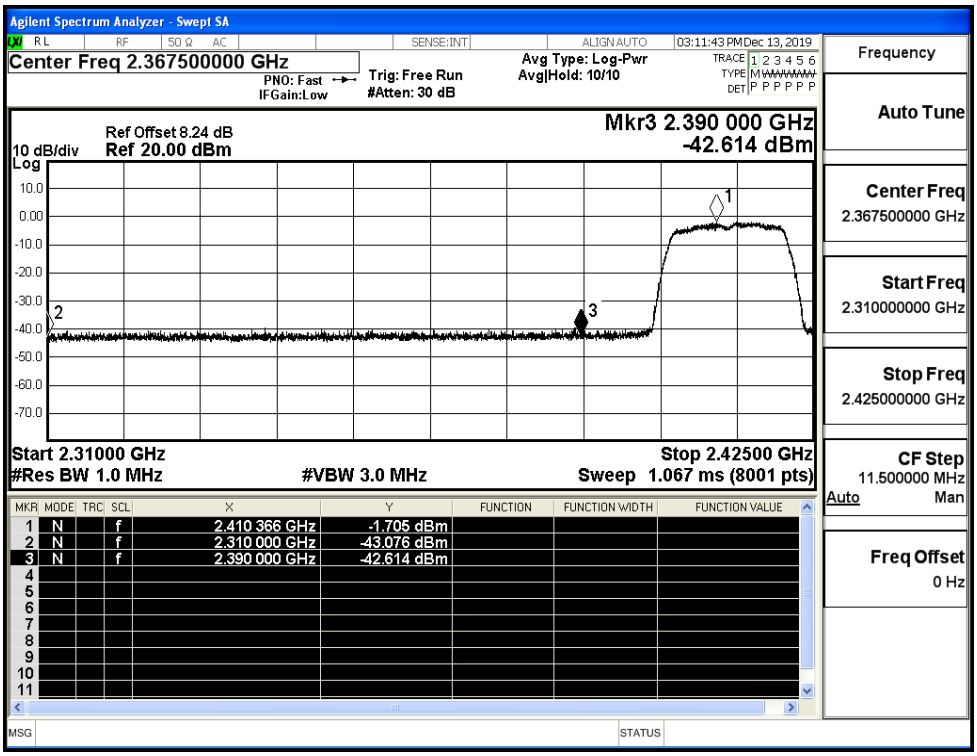
Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



Restrict-band band-edge measurements_11G_2462_Ant1_AV



Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



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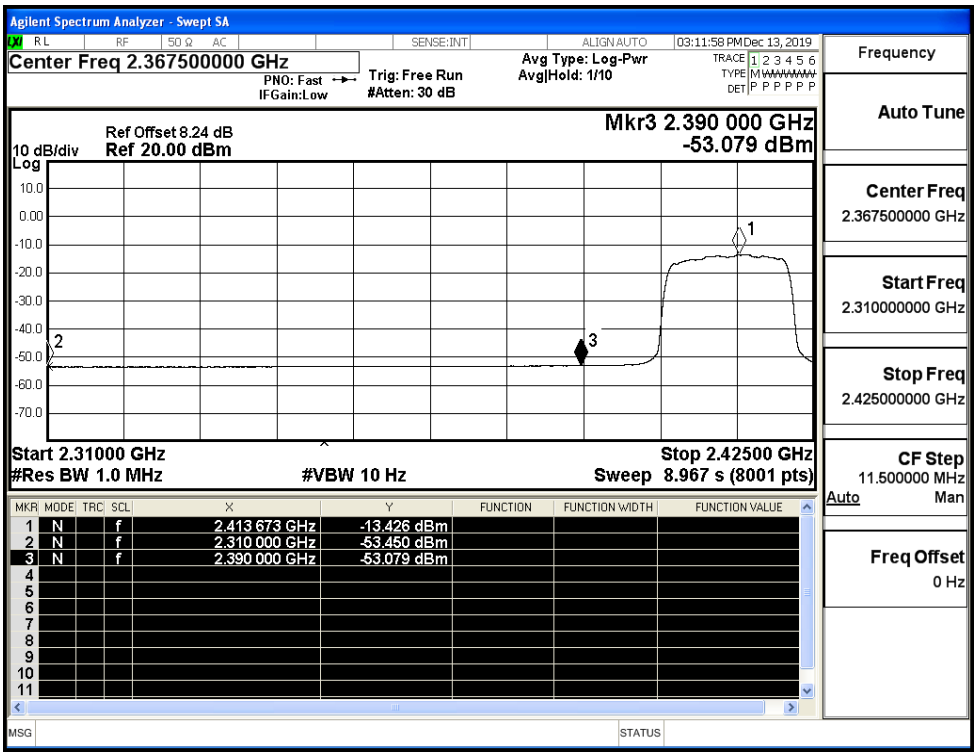
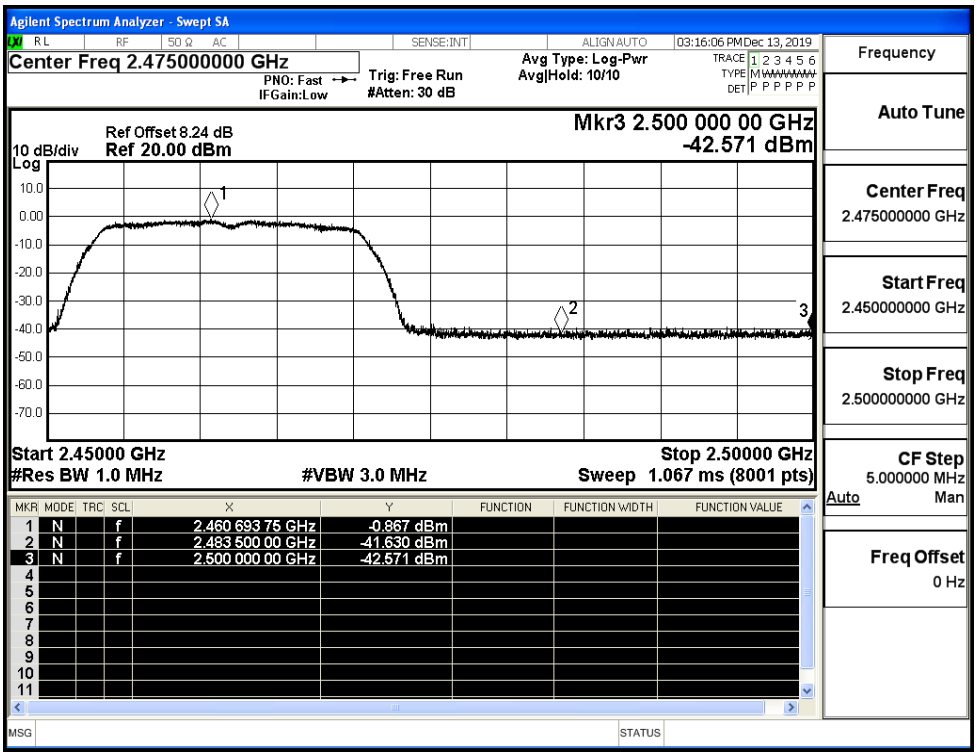
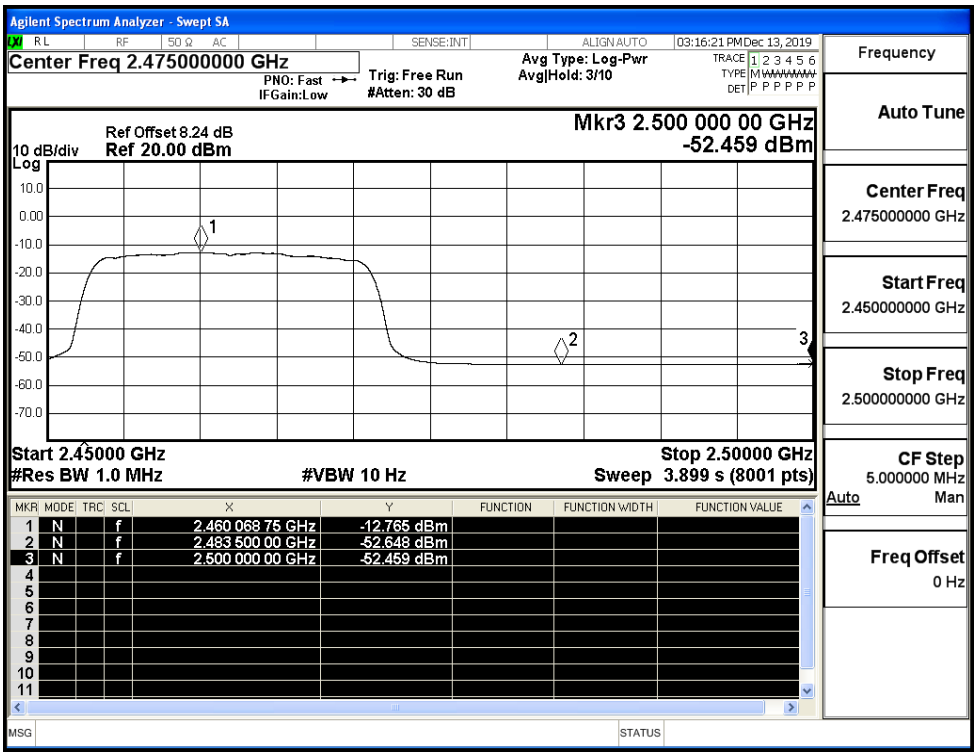


Restrict-band band-edge measurements_11N20SISO_2462_Ant1_PEAK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