Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: 6.5-inch 4G Smart Phone
Trade Mark: LOGIC, iSWAG, UNONU
Test Model: L65

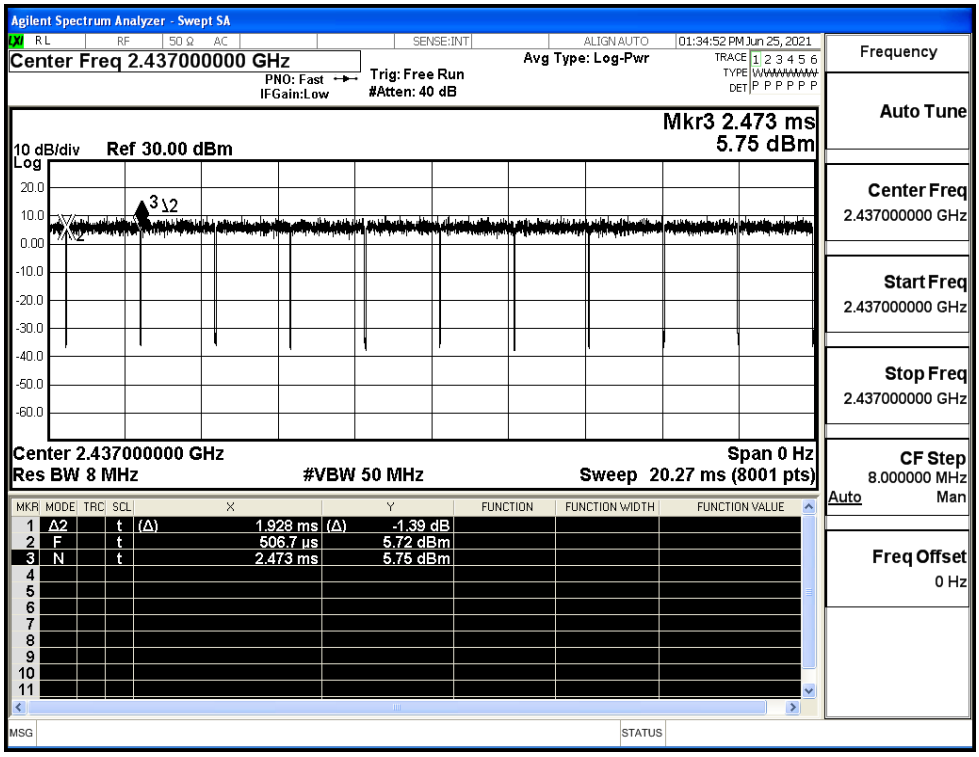
Environmental Conditions

Temperature:	21.6° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Ken He
Supervised by:	Li Huan

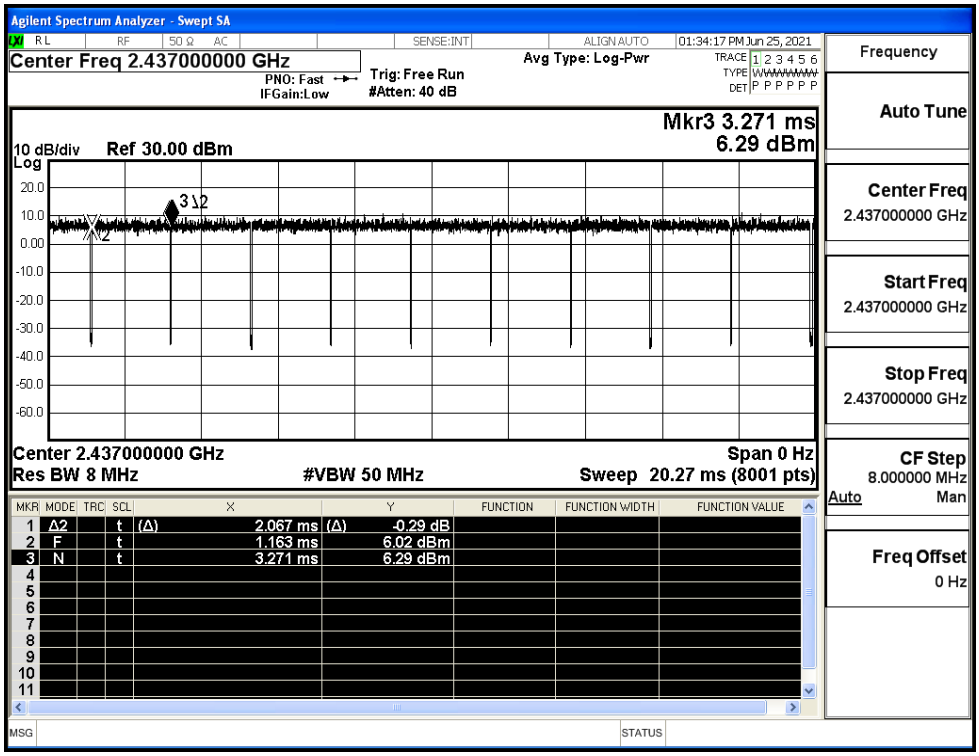
C.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	98.07	PASS
11G	2437	Ant1	98.08	PASS
11N20SISO	2437	Ant1	98.07	PASS

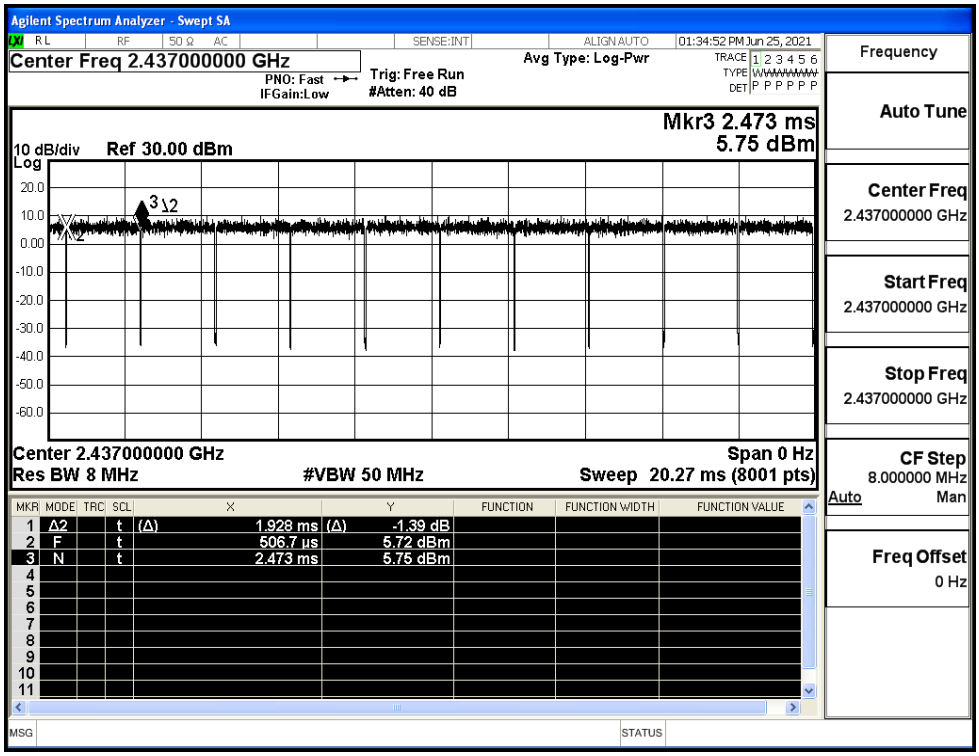
Duty Cycle_11B_2437_Ant1



Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1

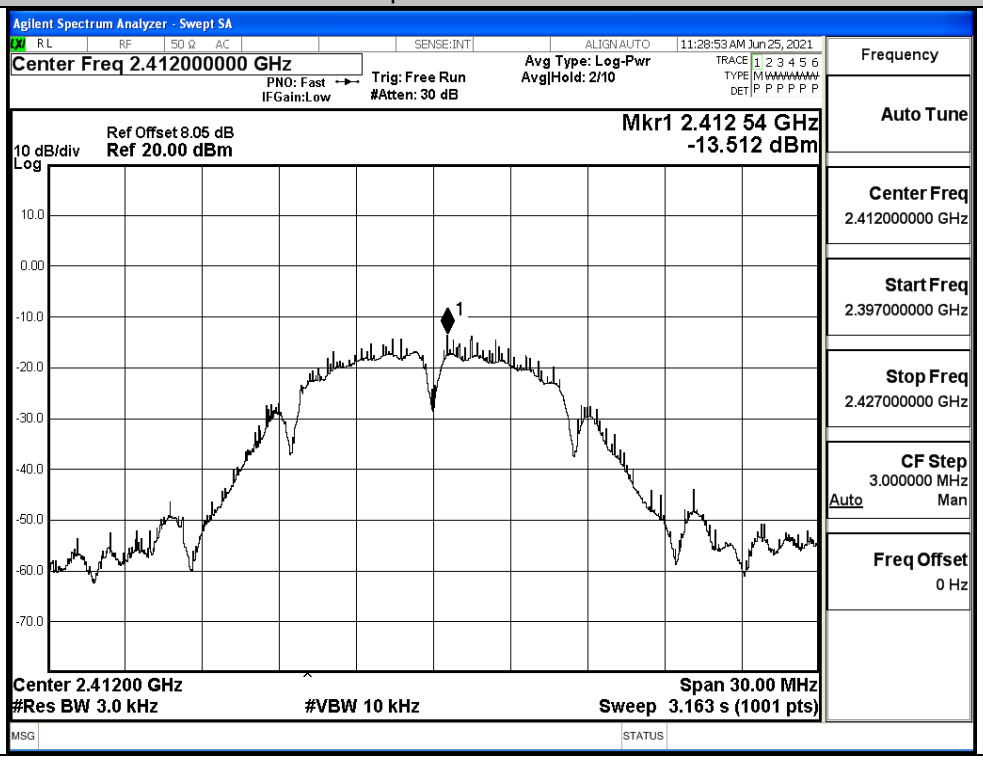


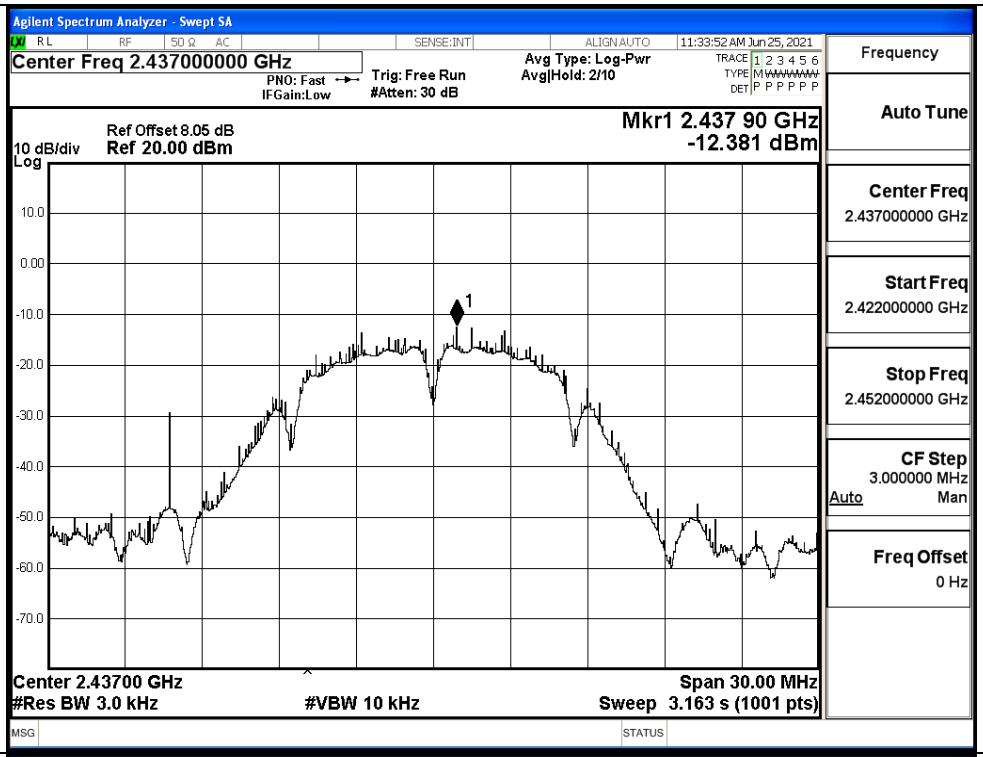
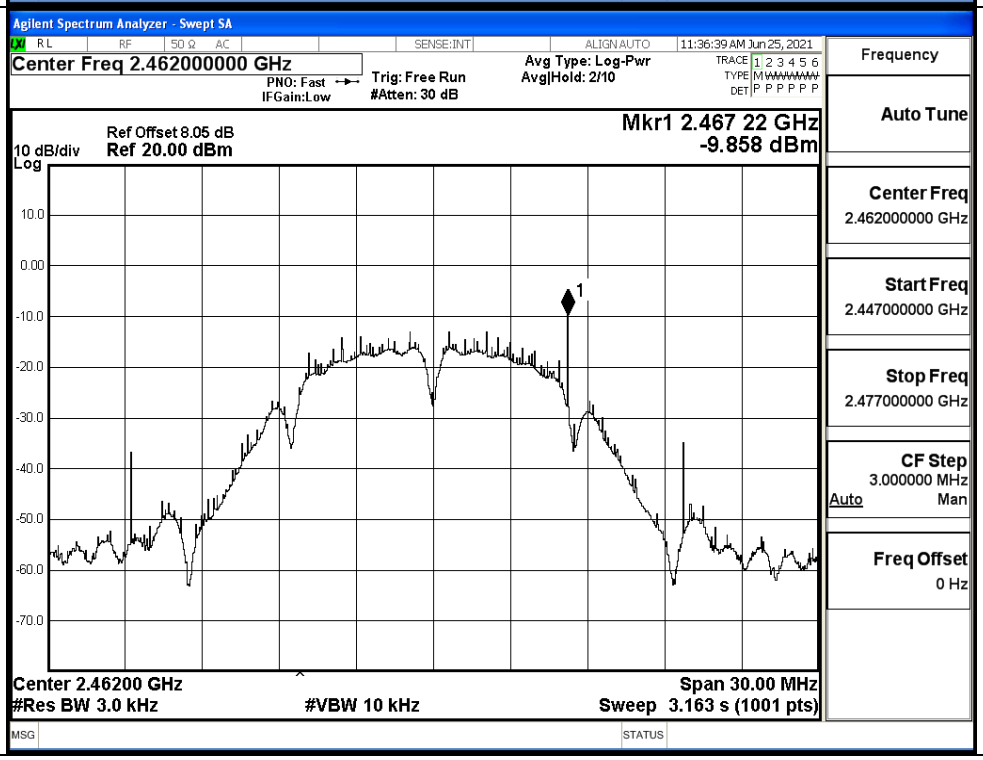
C.2 Maximum Conducted Output Power

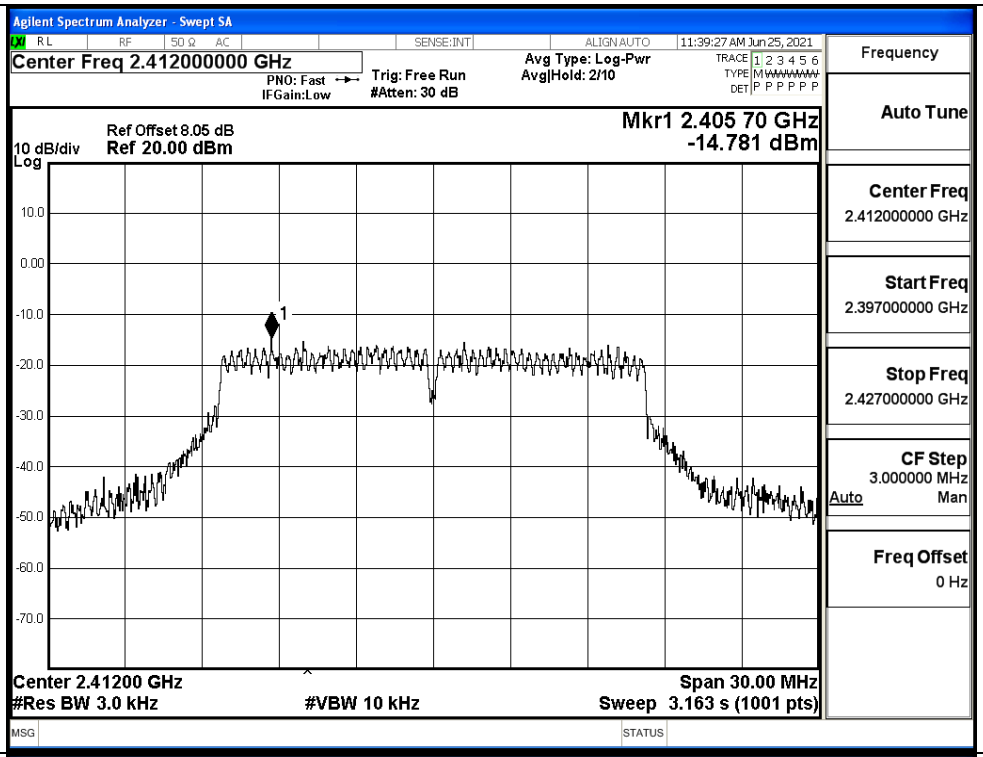
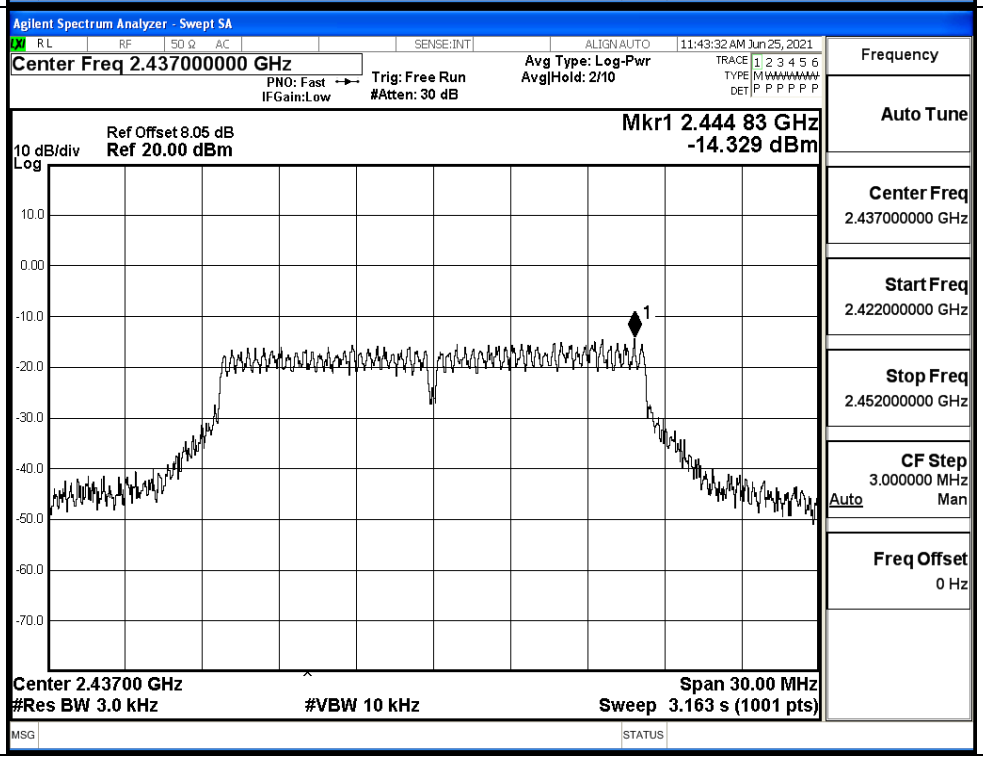
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	15.42	30	PASS
	MCH	16.29	30	PASS
	HCH	16.36	30	PASS
11G	LCH	17.20	30	PASS
	MCH	18.13	30	PASS
	HCH	17.41	30	PASS
11N20SISO	LCH	18.49	30	PASS
	MCH	17.45	30	PASS
	HCH	17.08	30	PASS

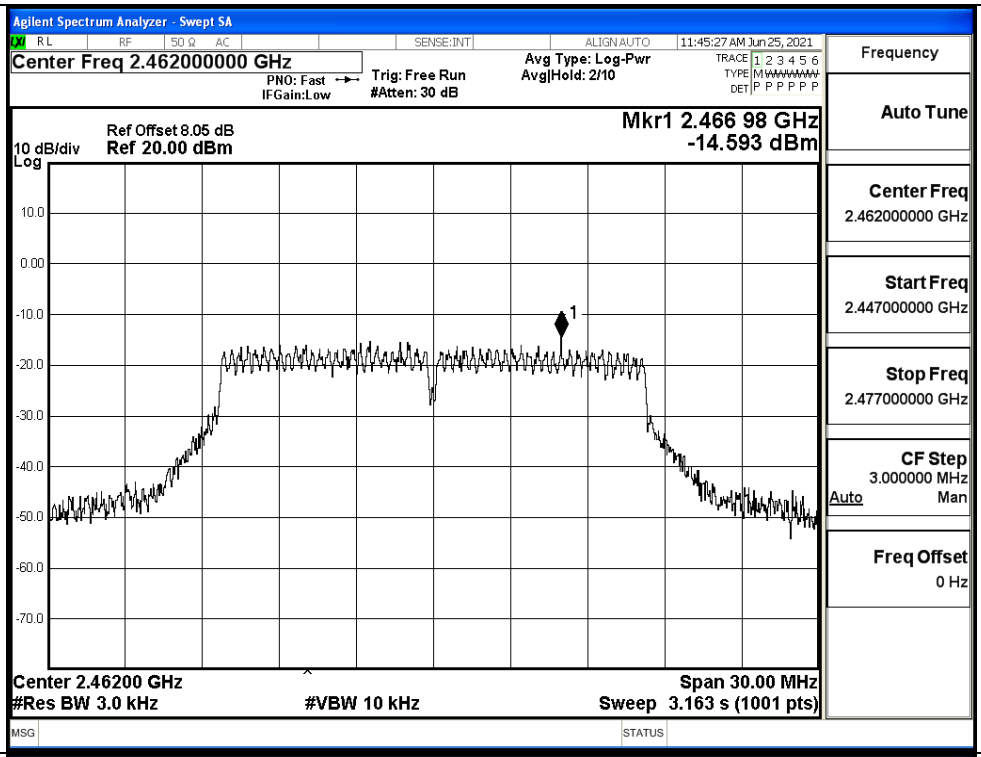
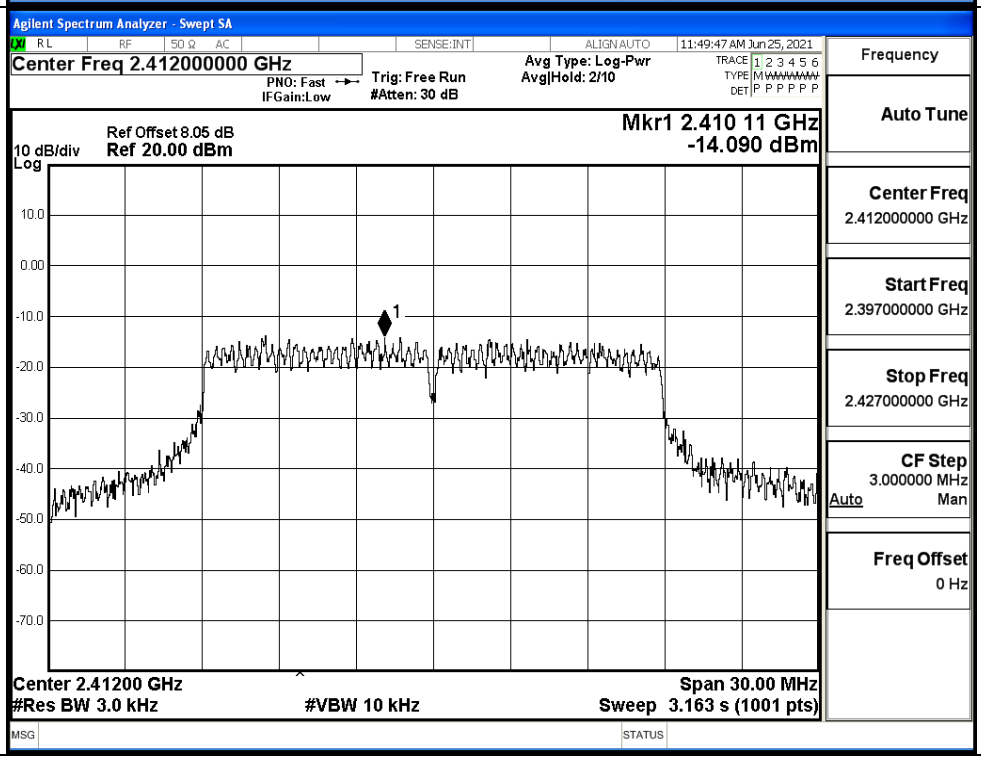
C.3 Maximum Power Spectral Density

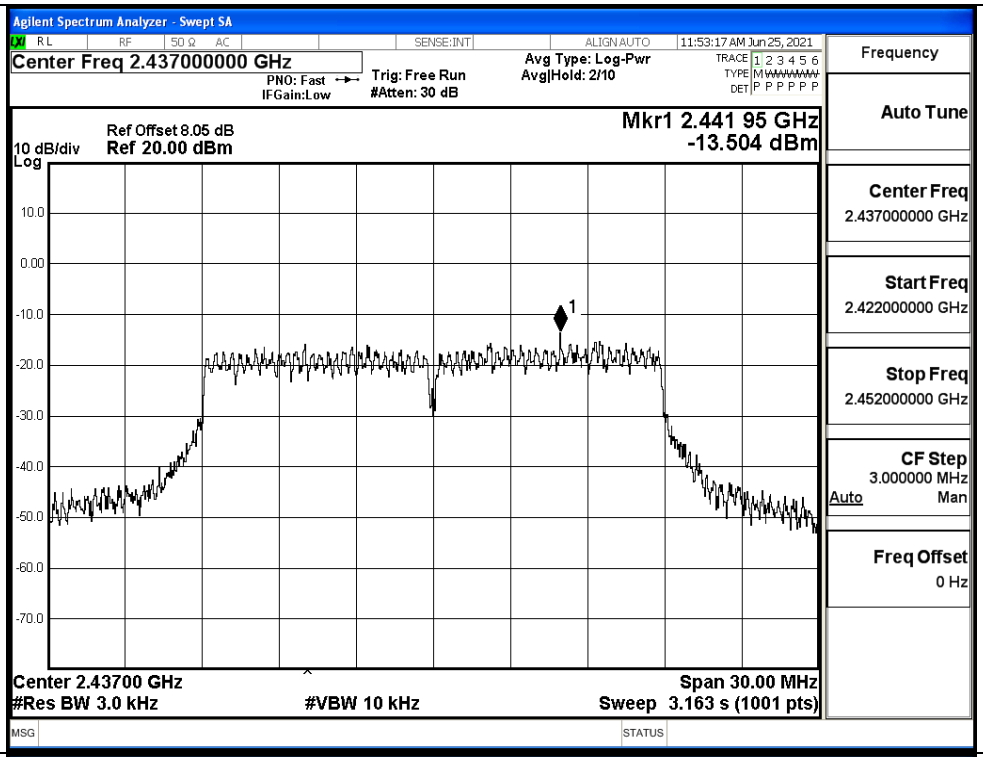
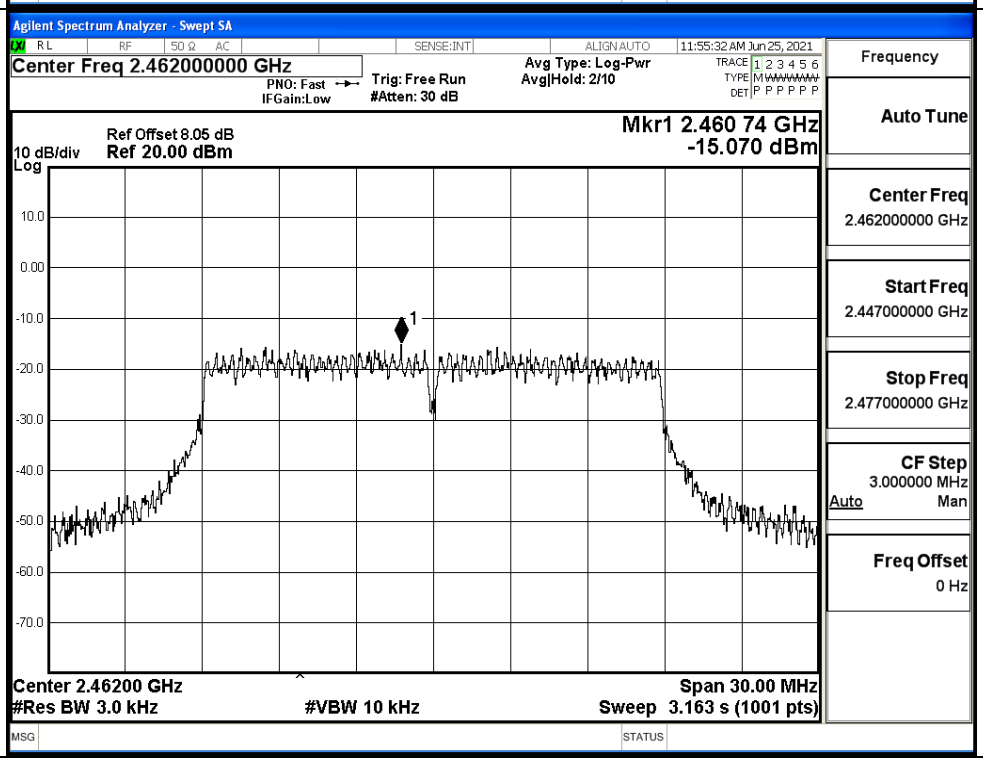
Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-13.512	8	PASS
	MCH	-12.381	8	PASS
	HCH	-9.858	8	PASS
11G	LCH	-14.781	8	PASS
	MCH	-14.329	8	PASS
	HCH	-14.593	8	PASS
11N20SISO	LCH	-14.090	8	PASS
	MCH	-13.504	8	PASS
	HCH	-15.070	8	PASS

Test Graphs	
11B/LCH	

11B/MCH		
11B/HCH		

11G/LCH	
11G/MCH	

11G/HCH		
11N20SISO/LCH		

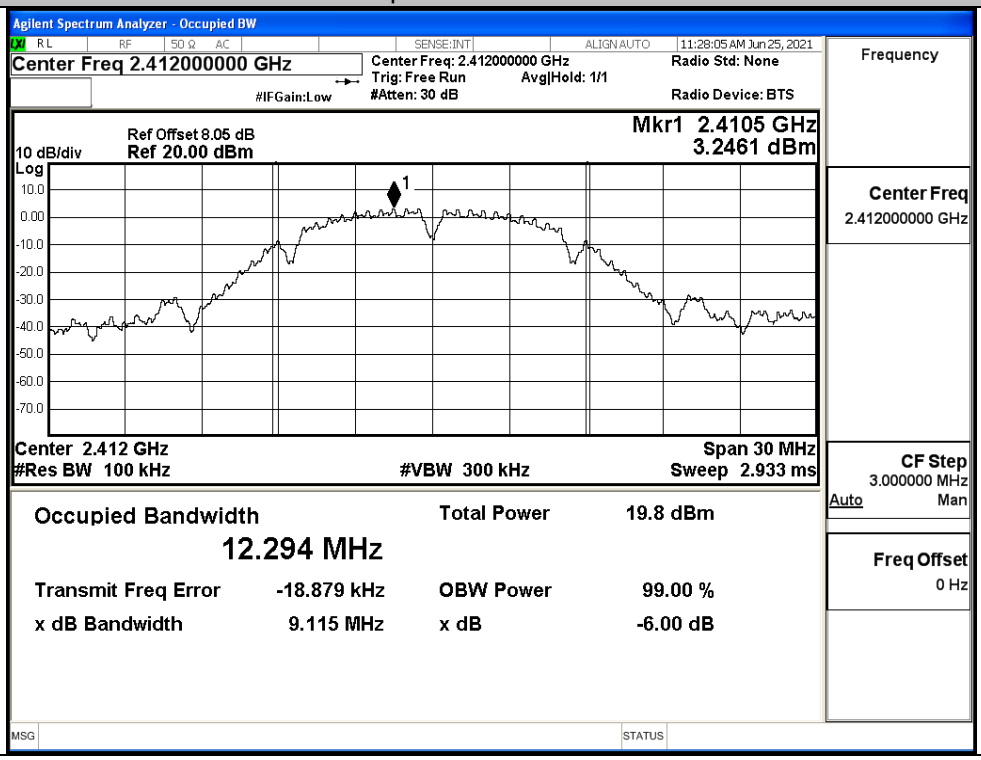
11N20SISO/MCH		
11N20SISO/HCH		

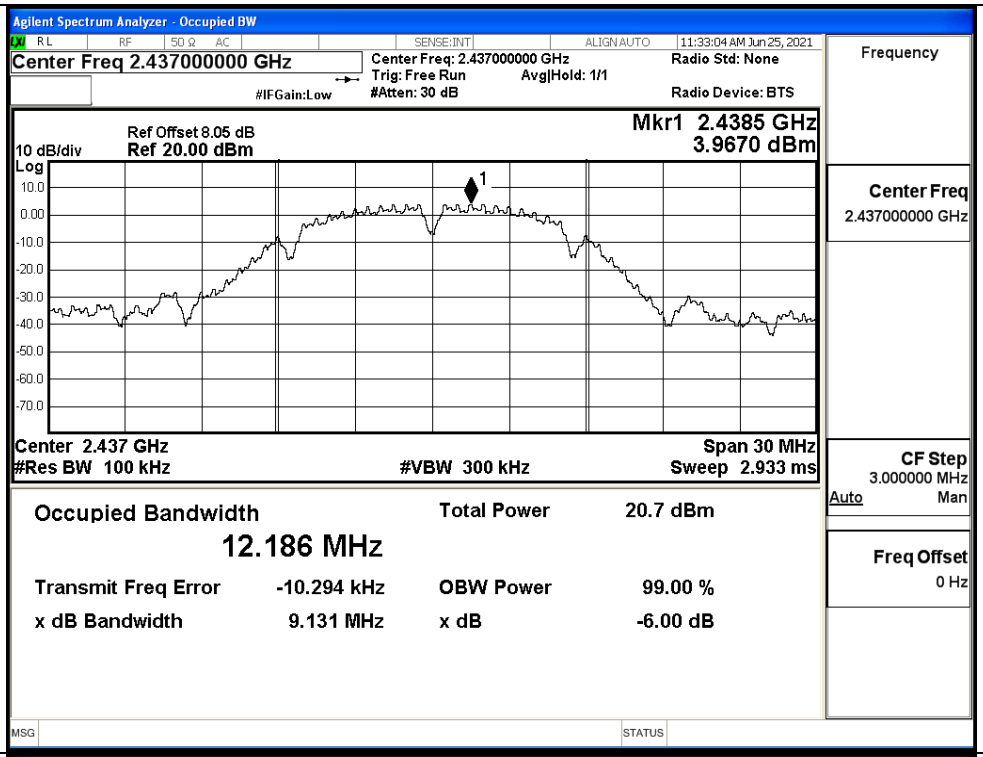
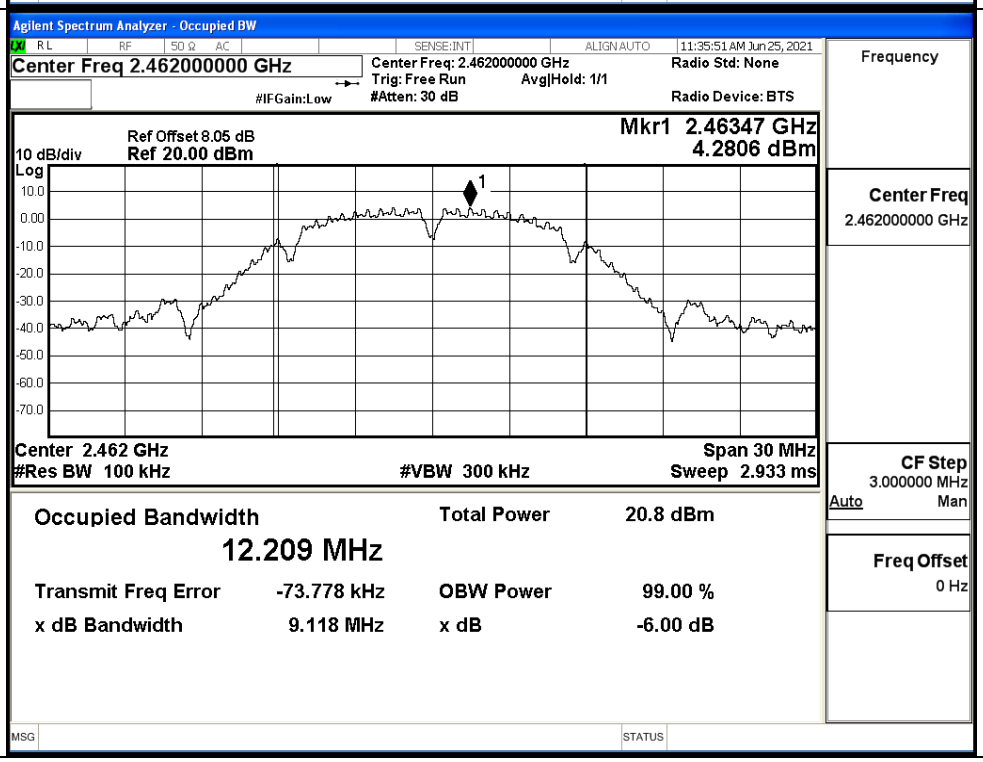
C.4 6dB Bandwidth

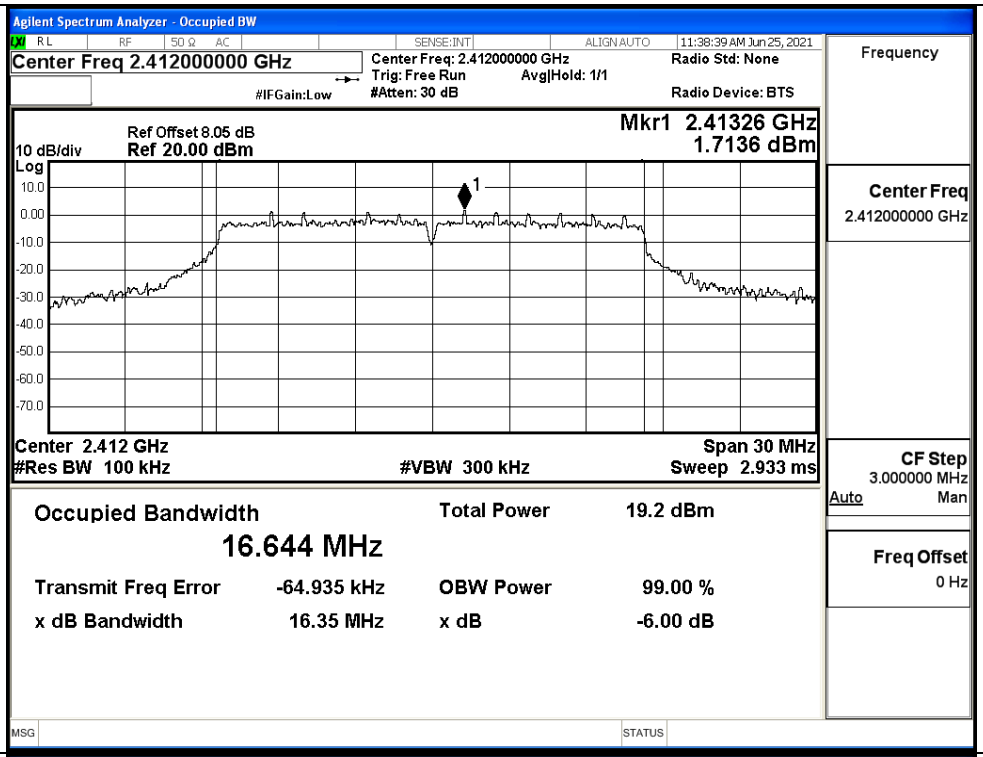
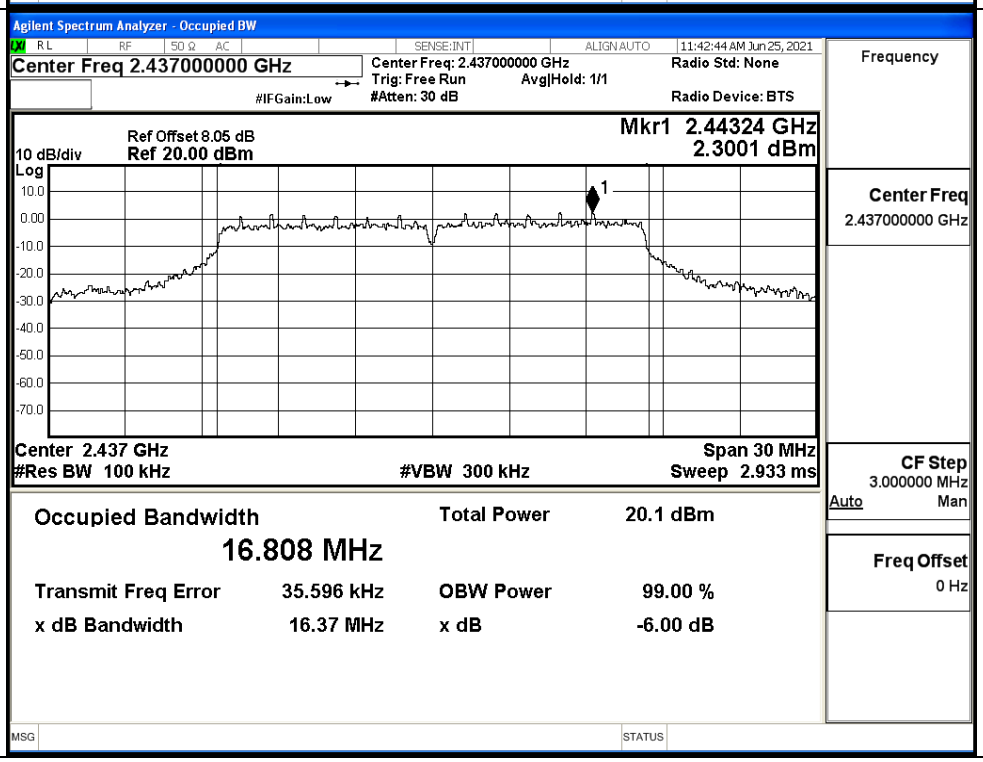
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.115	≥0.5	PASS
	MCH	9.131	≥0.5	PASS
	HCH	9.118	≥0.5	PASS
11G	LCH	16.35	≥0.5	PASS
	MCH	16.37	≥0.5	PASS
	HCH	16.39	≥0.5	PASS
11N20SISO	LCH	17.31	≥0.5	PASS
	MCH	17.60	≥0.5	PASS
	HCH	17.32	≥0.5	PASS

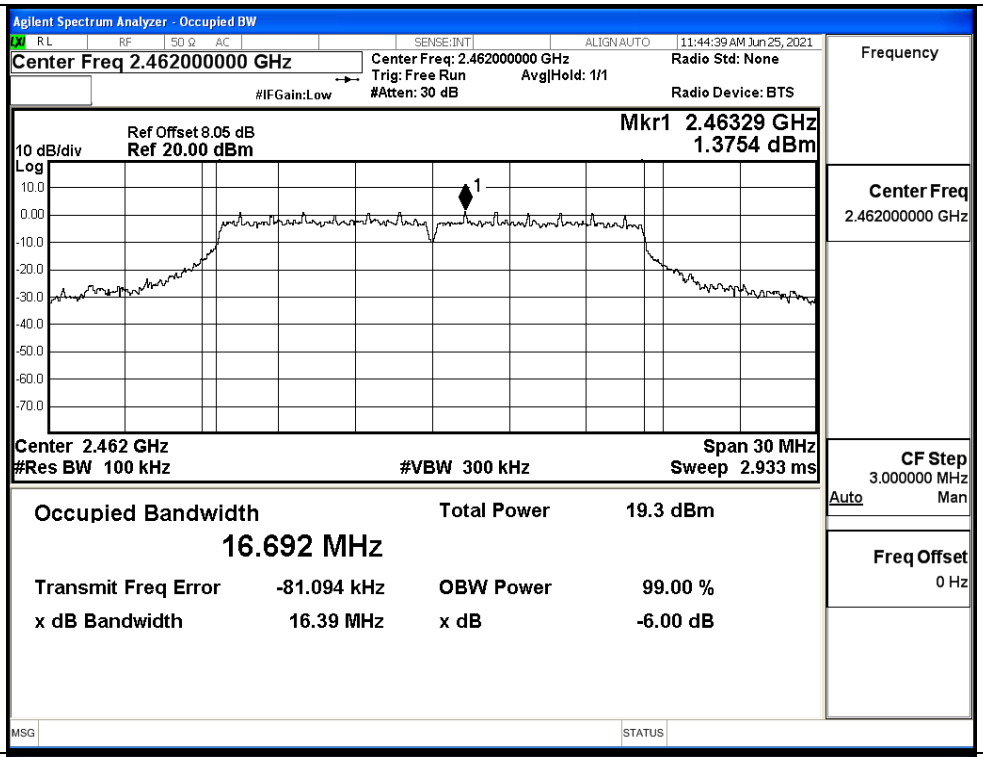
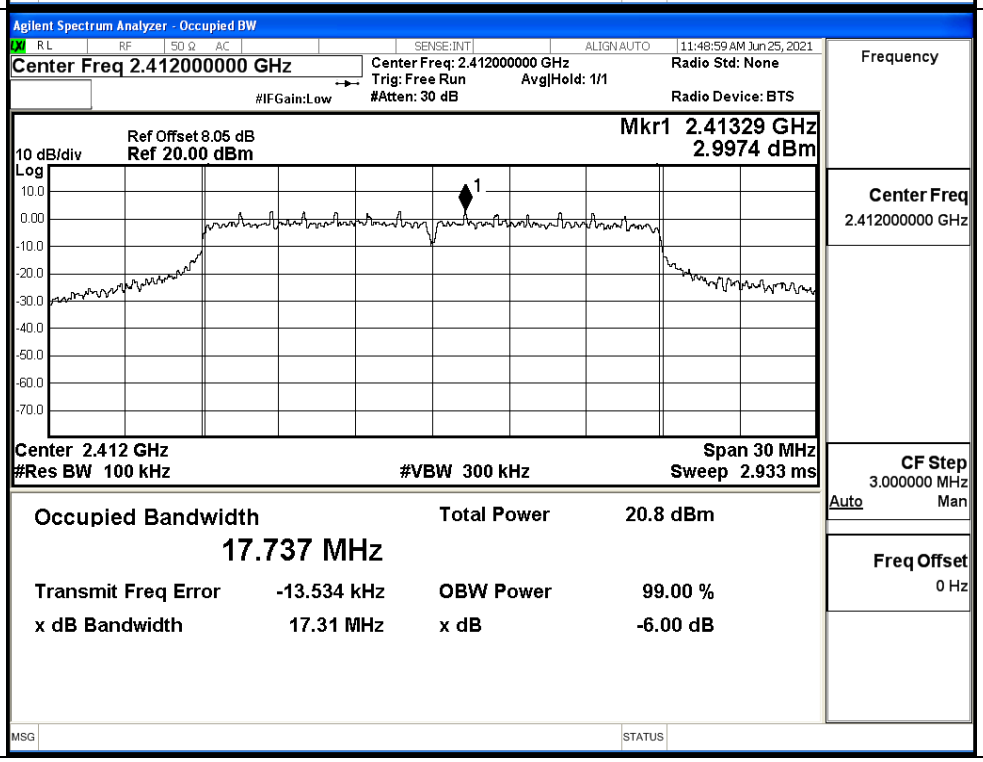
Test Graphs

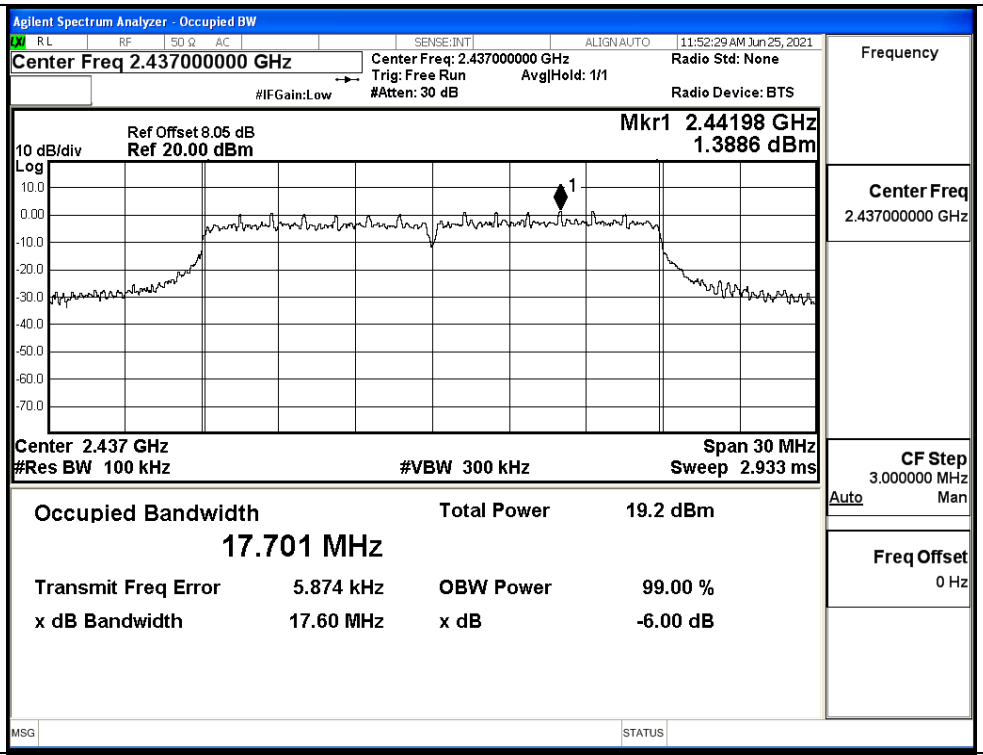
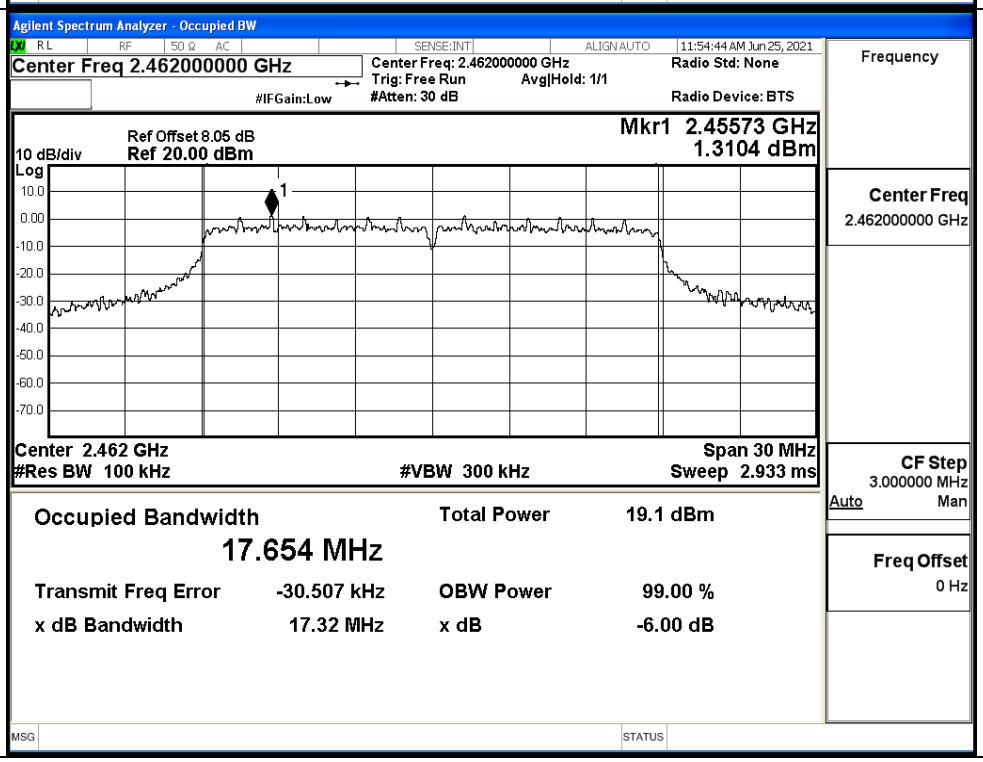
11B/LCH



11B/MCH	
11B/HCH	

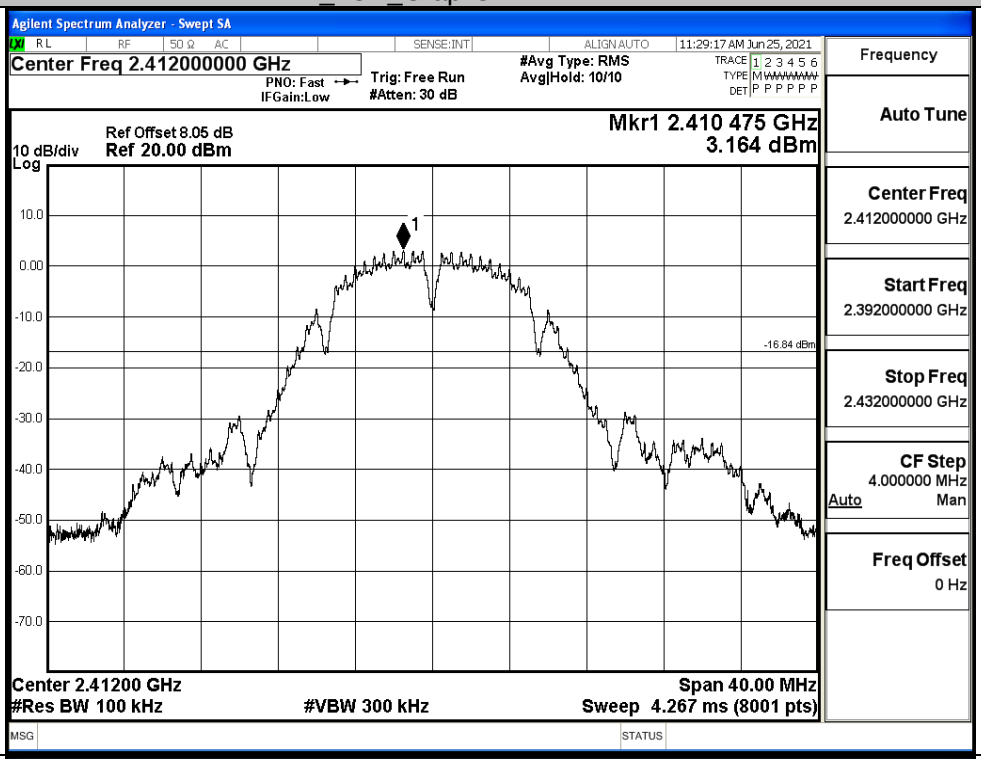
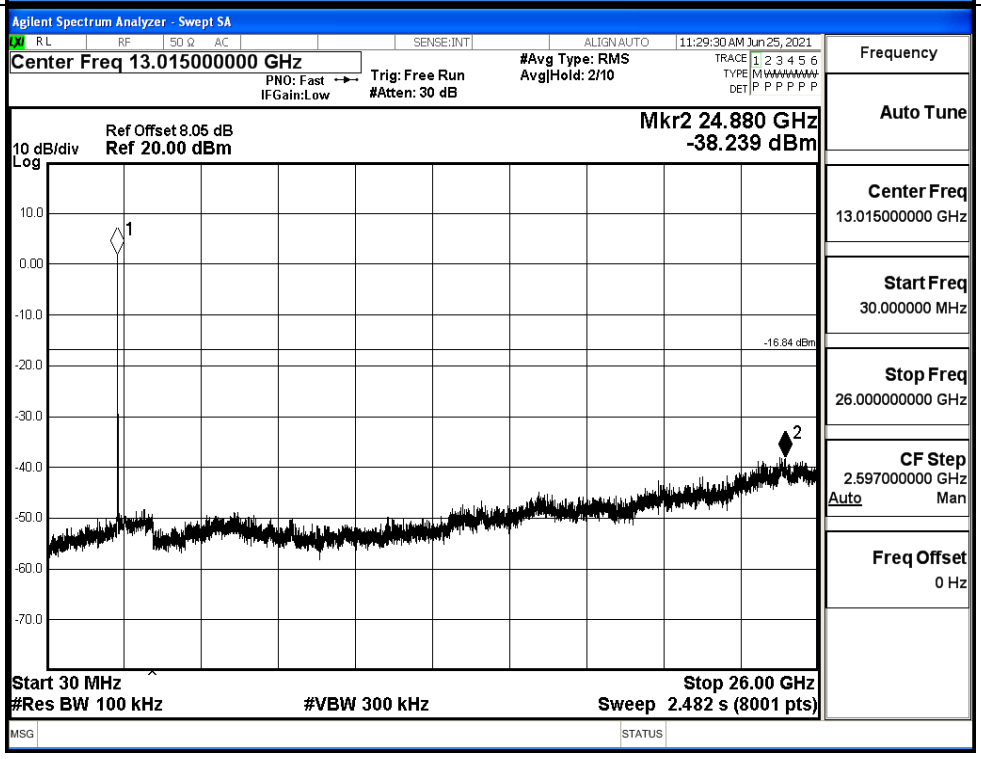
11G/LCH	
11G/MCH	

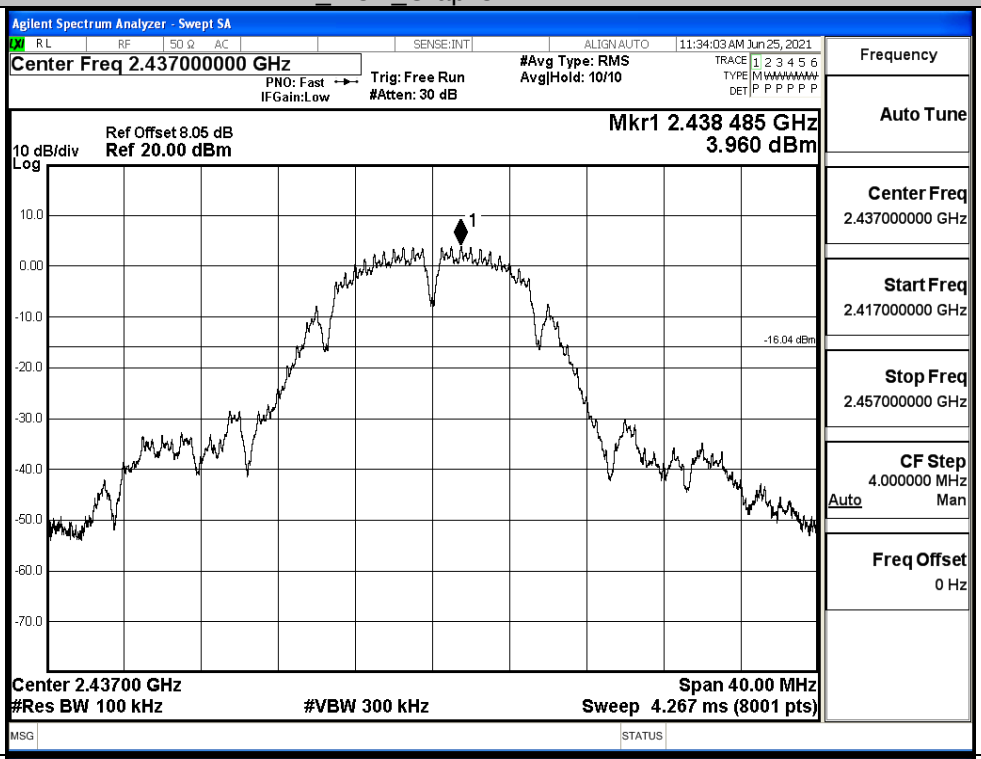
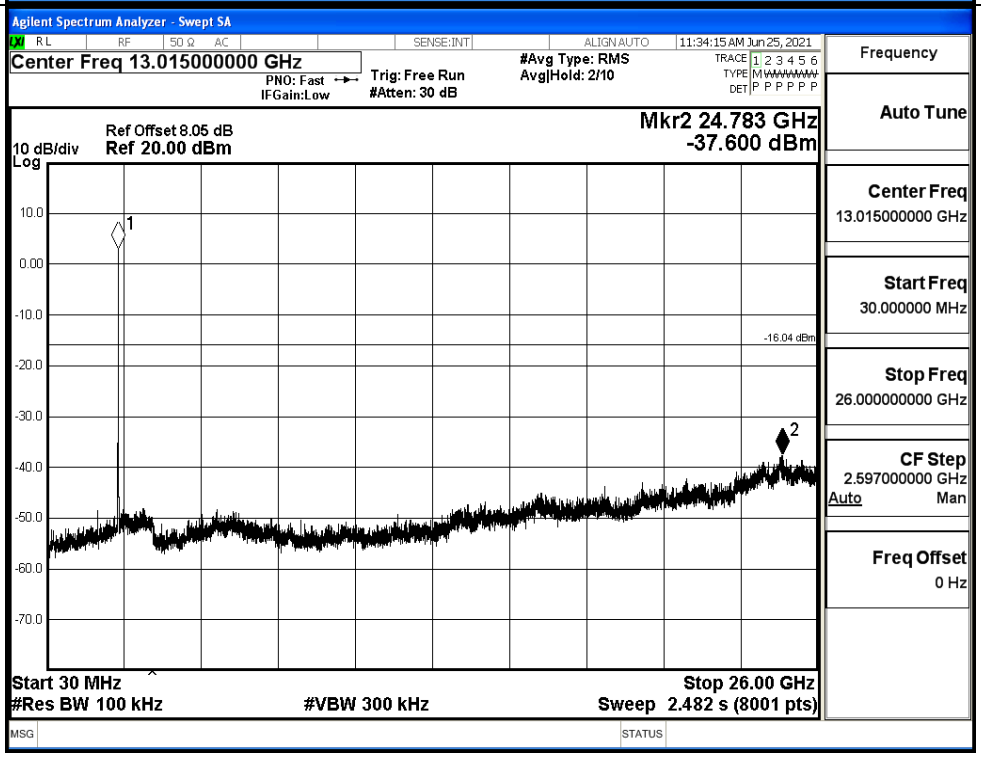
11G/HCH	
11N20SISO/LCH	

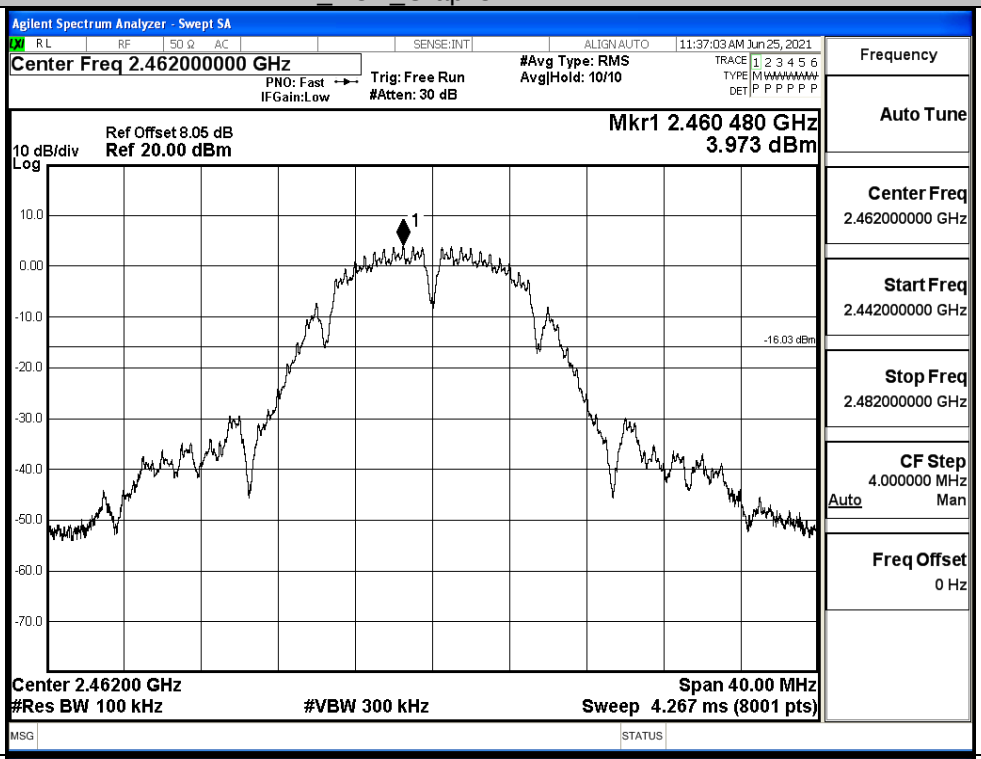
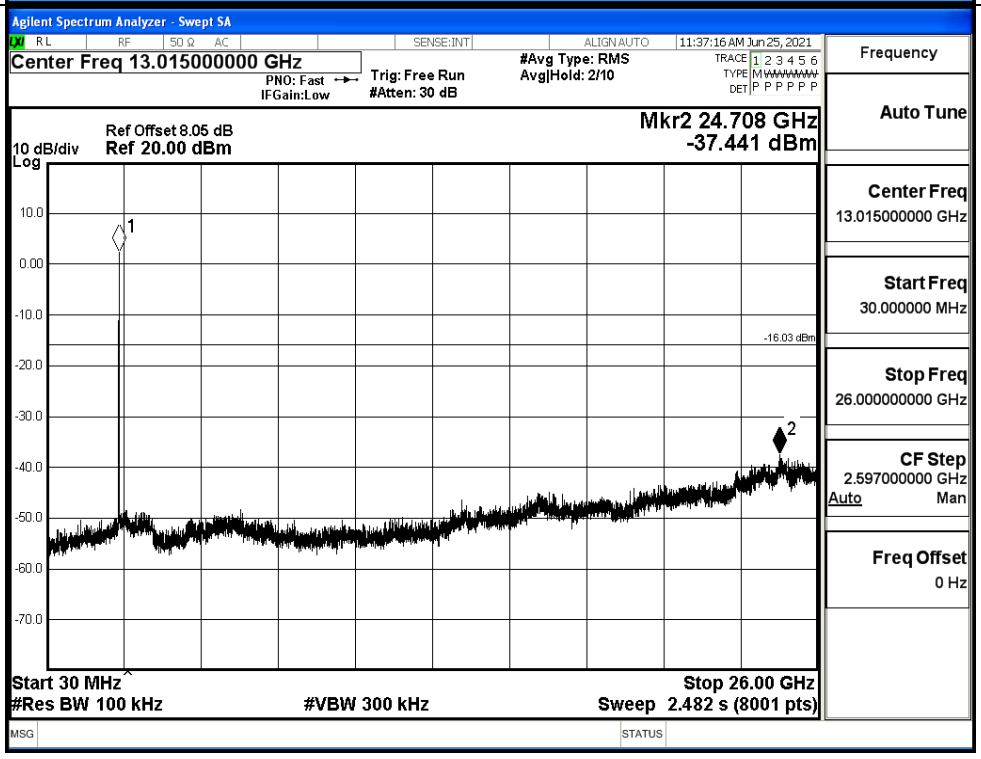
11N20SISO/MCH		
11N20SISO/HCH		

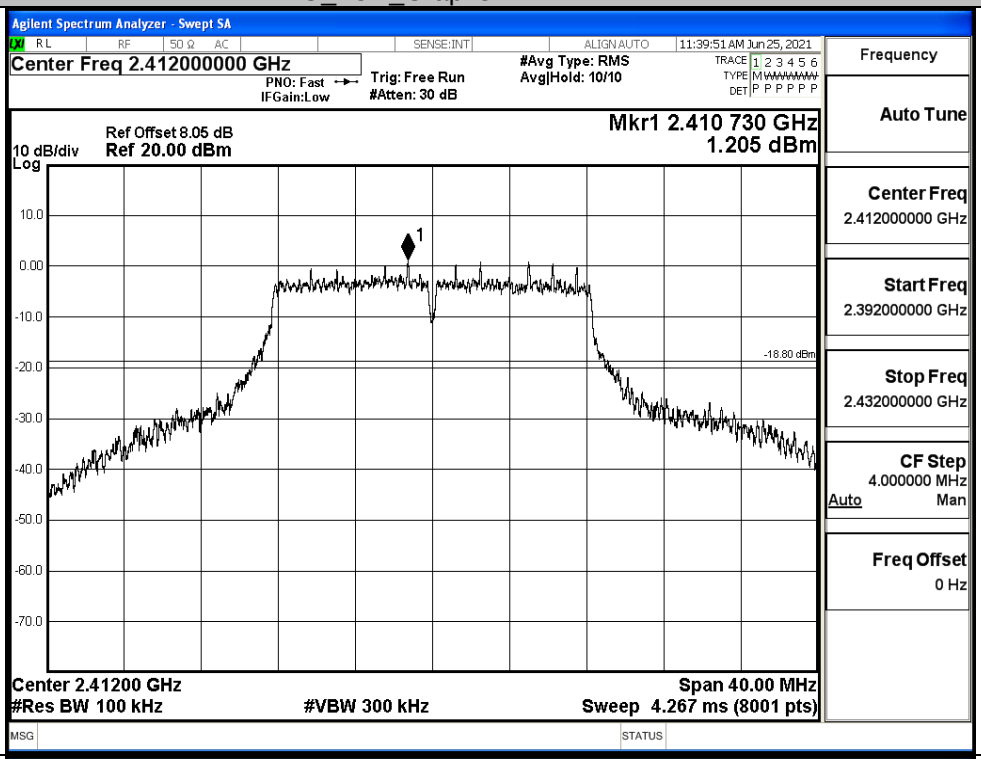
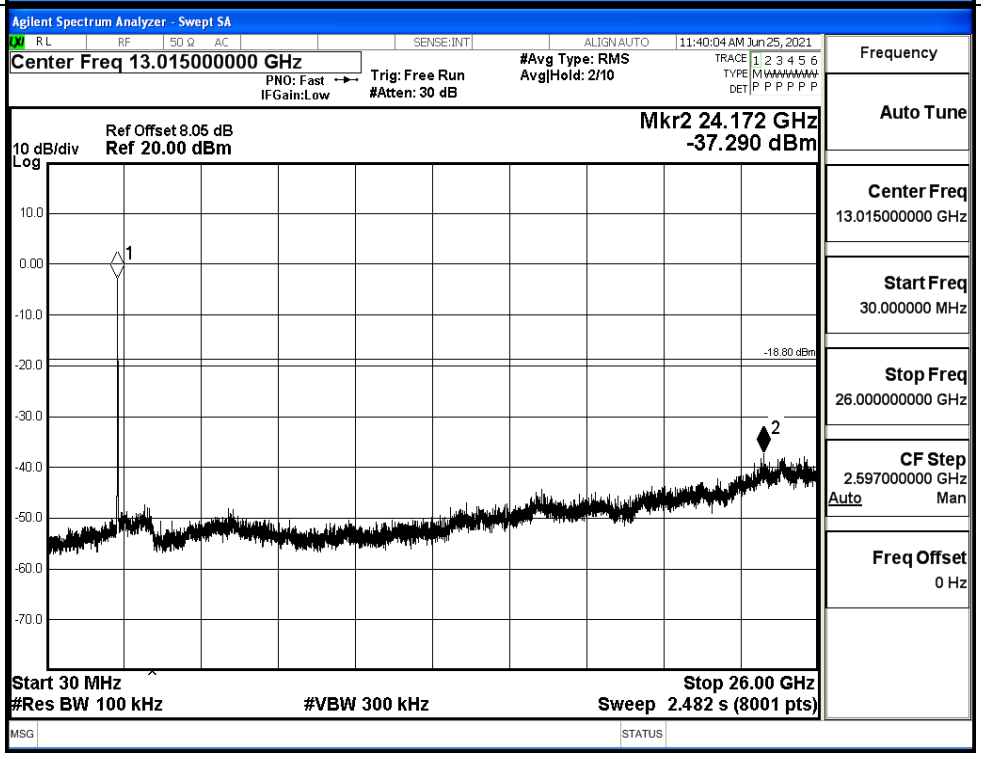
C.5 RF Conducted Spurious Emissions

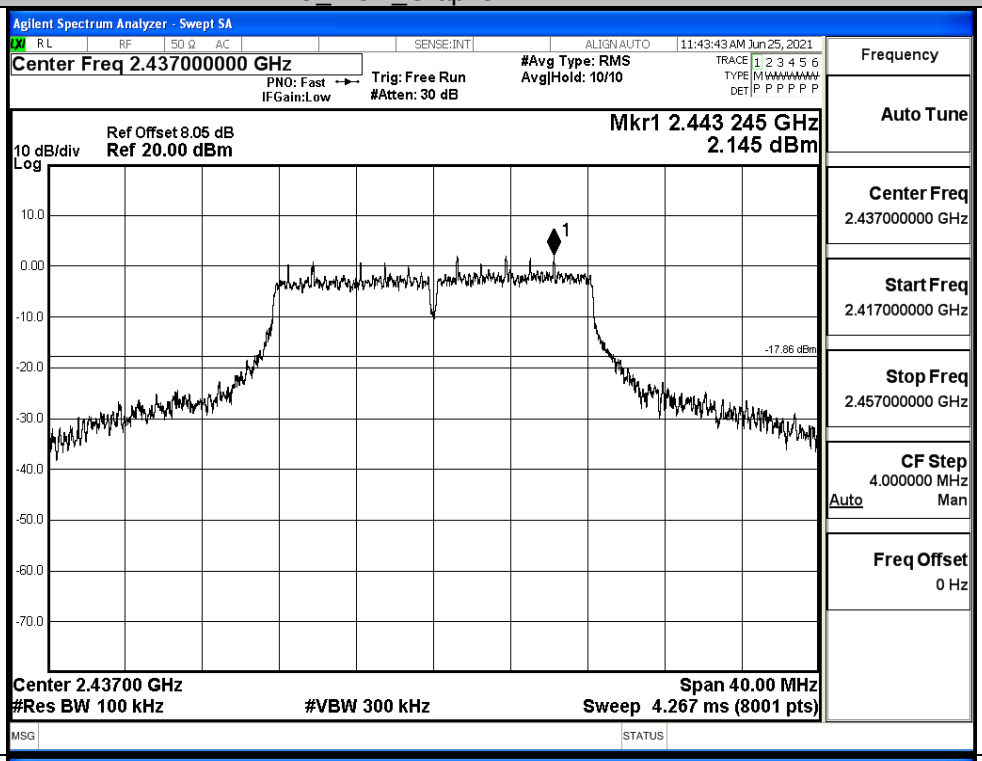
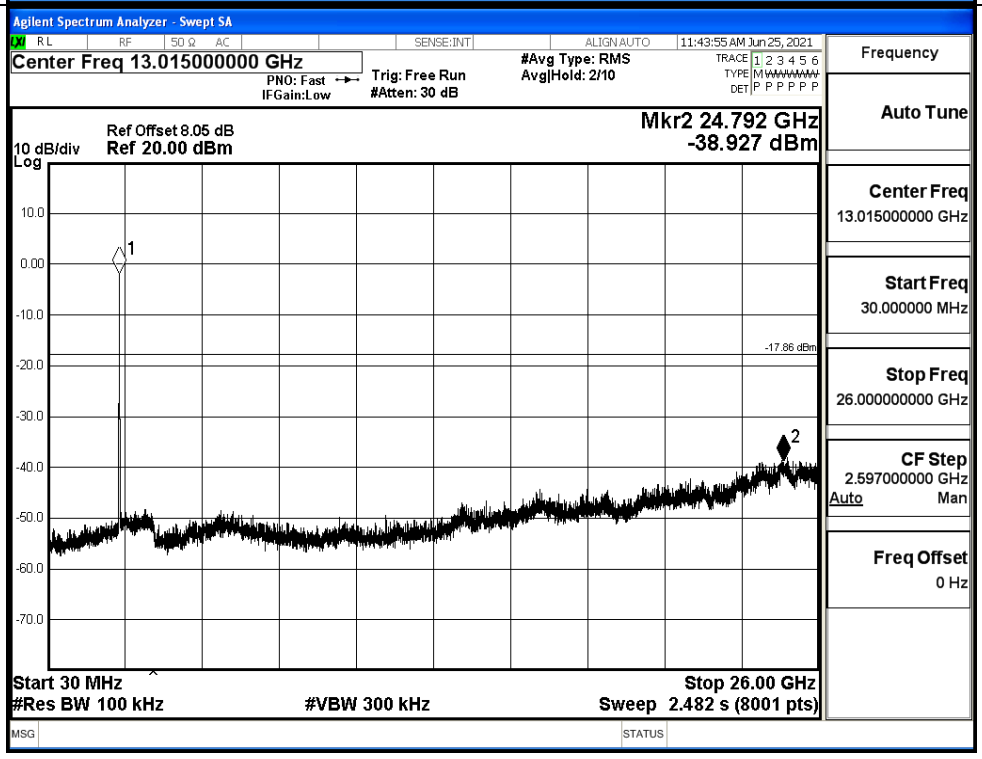
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	3.164	-38.239	-16.836	PASS
	MCH	3.96	-37.600	-16.040	PASS
	HCH	3.973	-37.441	-16.027	PASS
11G	LCH	1.205	-37.290	-18.795	PASS
	MCH	2.145	-38.927	-17.855	PASS
	HCH	1.364	-37.771	-18.636	PASS
11N20 SISO	LCH	3.111	-37.537	-16.889	PASS
	MCH	1.285	-38.227	-18.715	PASS
	HCH	0.581	-38.020	-19.419	PASS

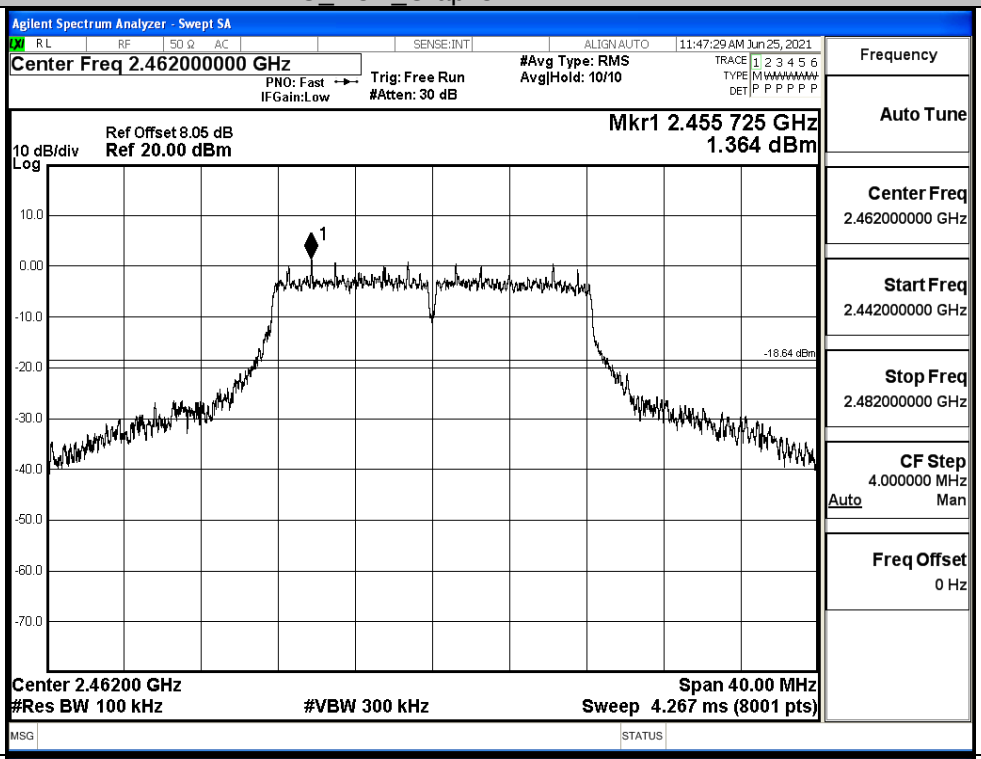
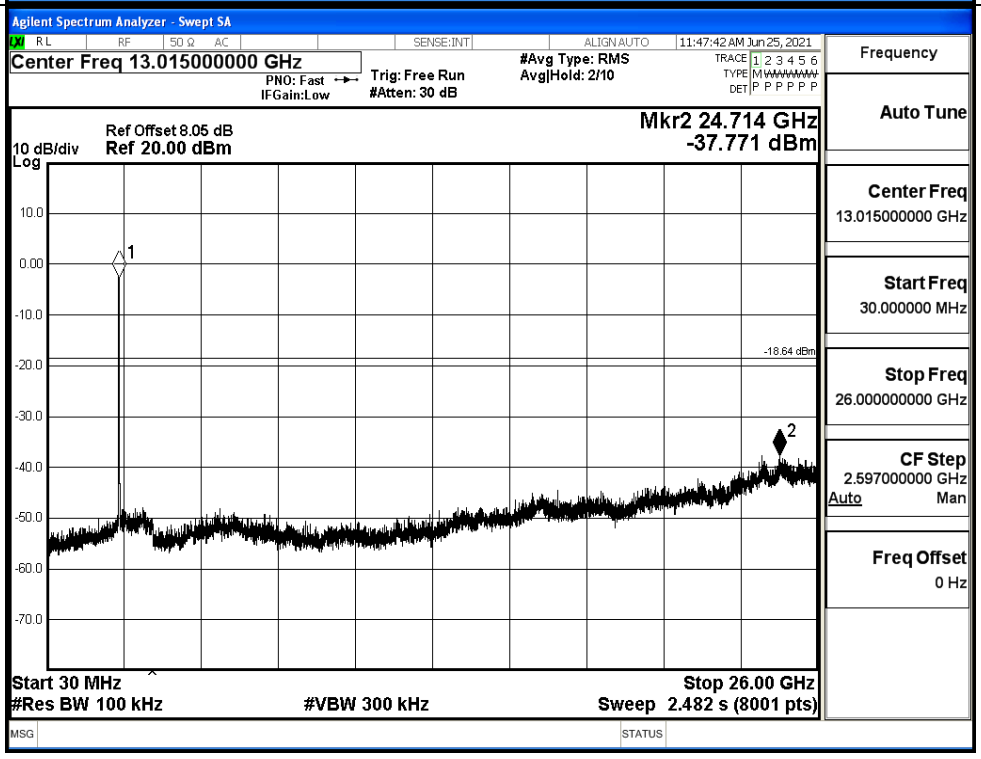
11B_LCH_Graphs	
Pref/11B/LCH	
Puw/11B/LCH	

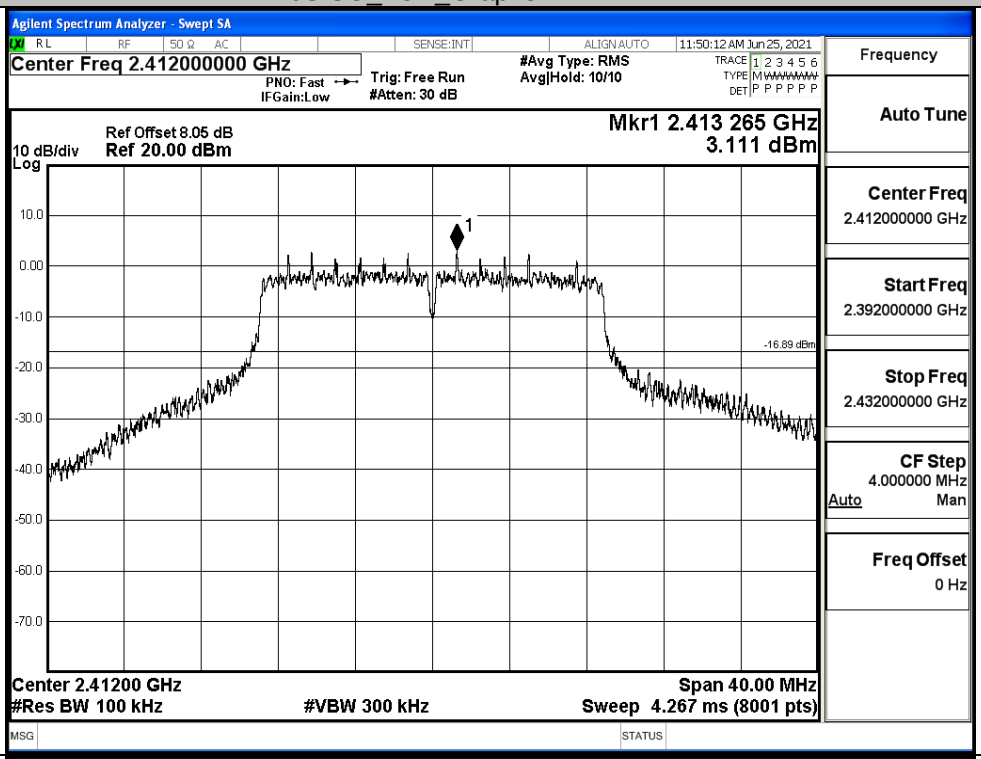
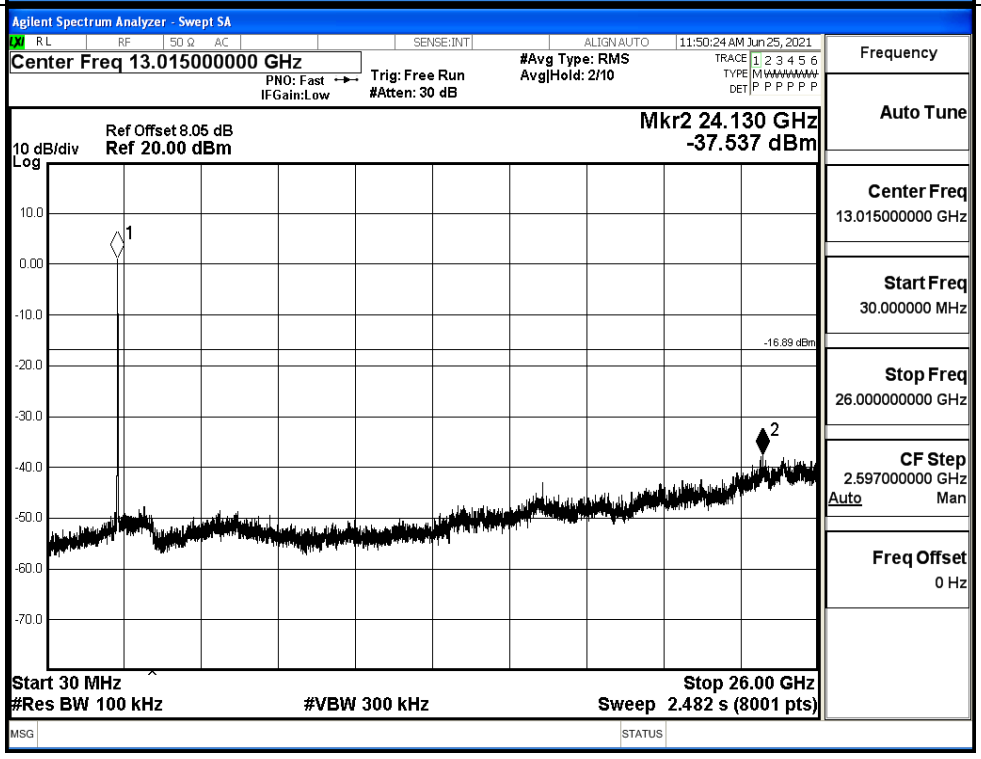
11B_MCH_Graphs	
Pref/11B/MCH	
Puw/11B/MCH	

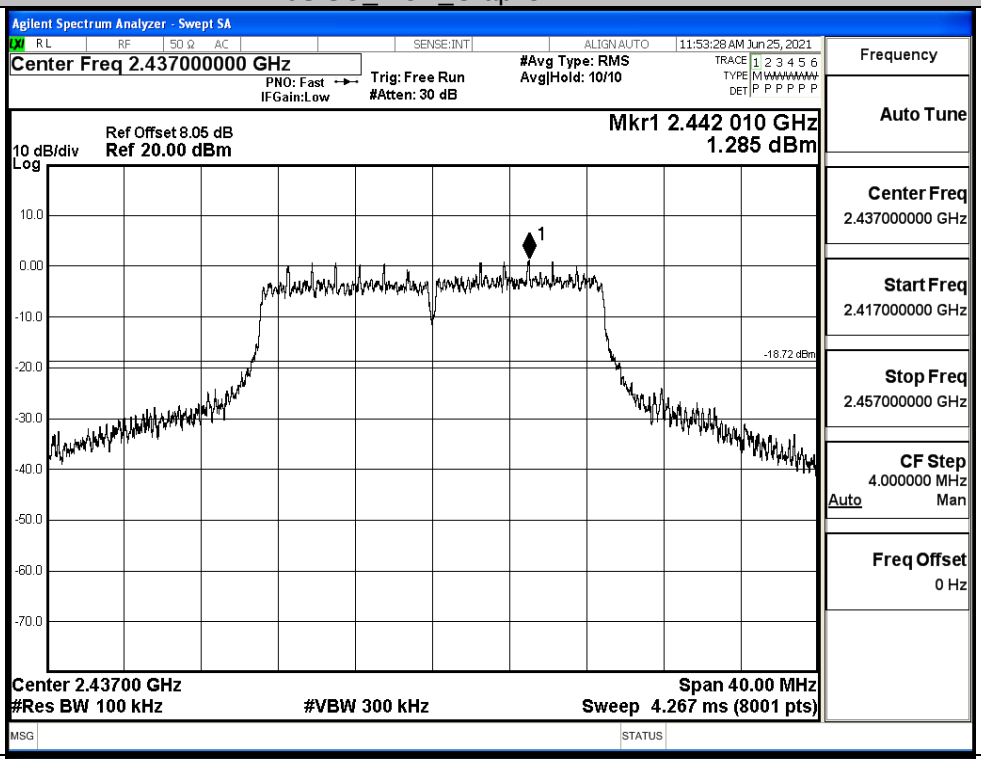
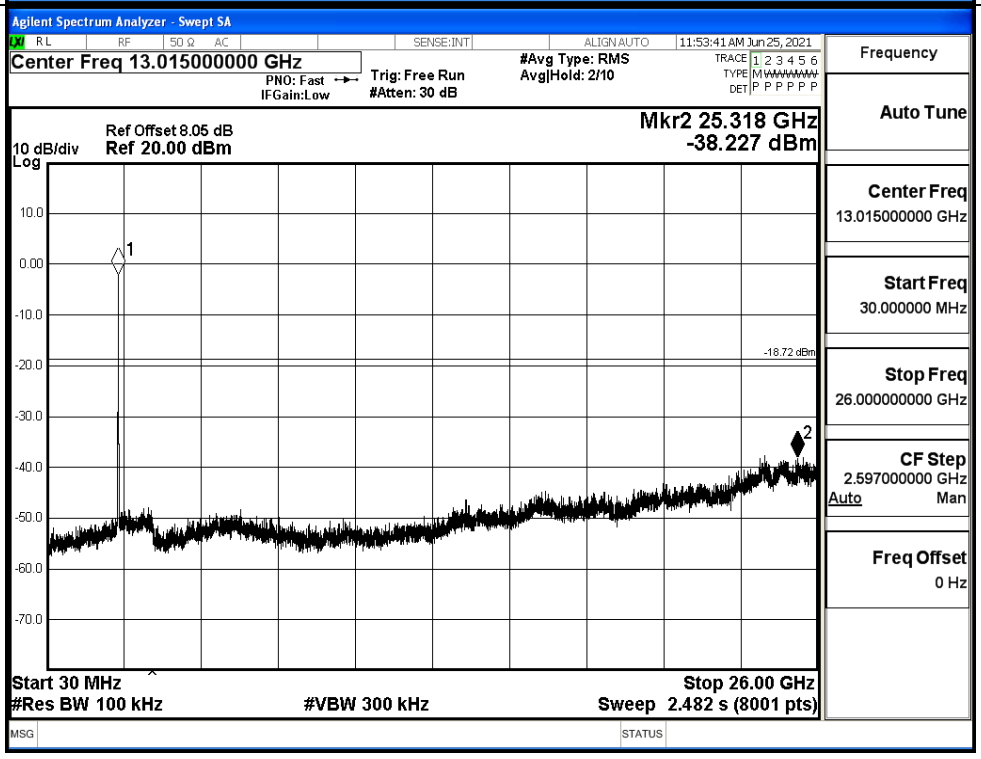
11B_HCH_Graphs	
Pref/11B/HCH	
Puw/11B/HCH	

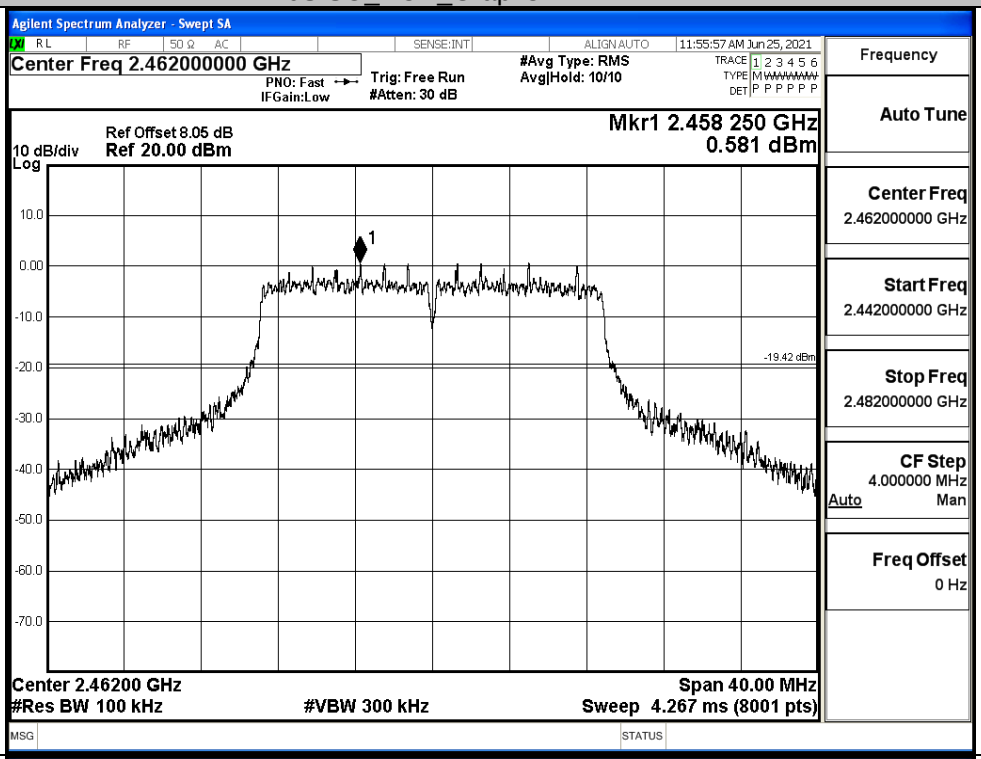
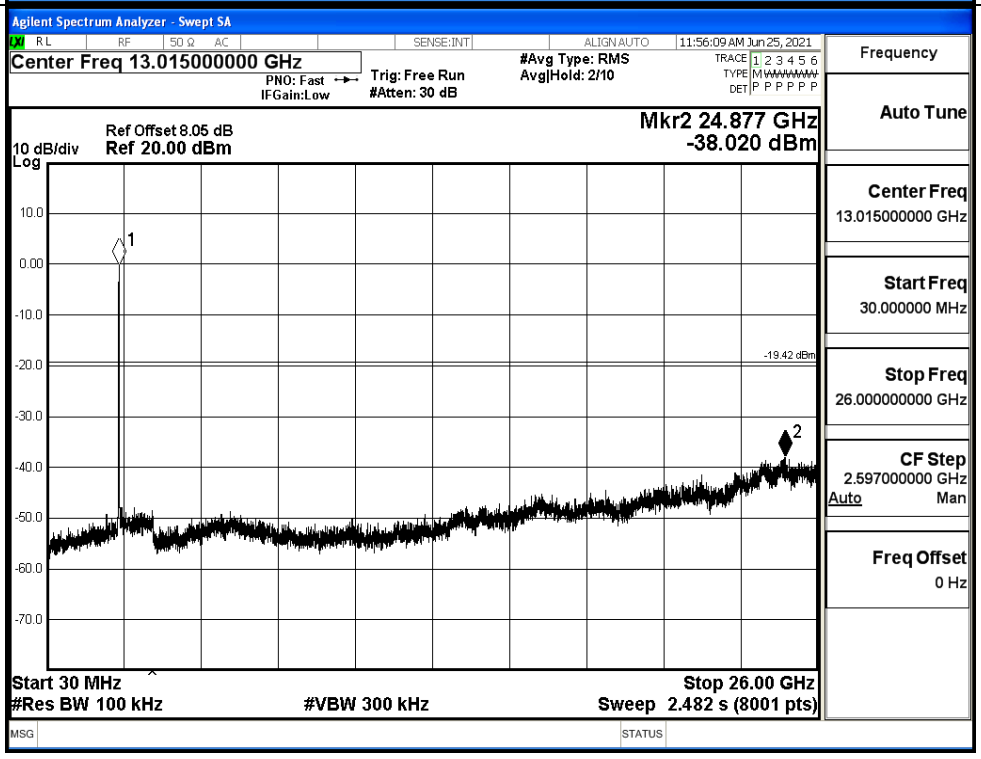
11G_LCH_Graphs	
Pref/11G/LCH	
Puw/11G/LCH	

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

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

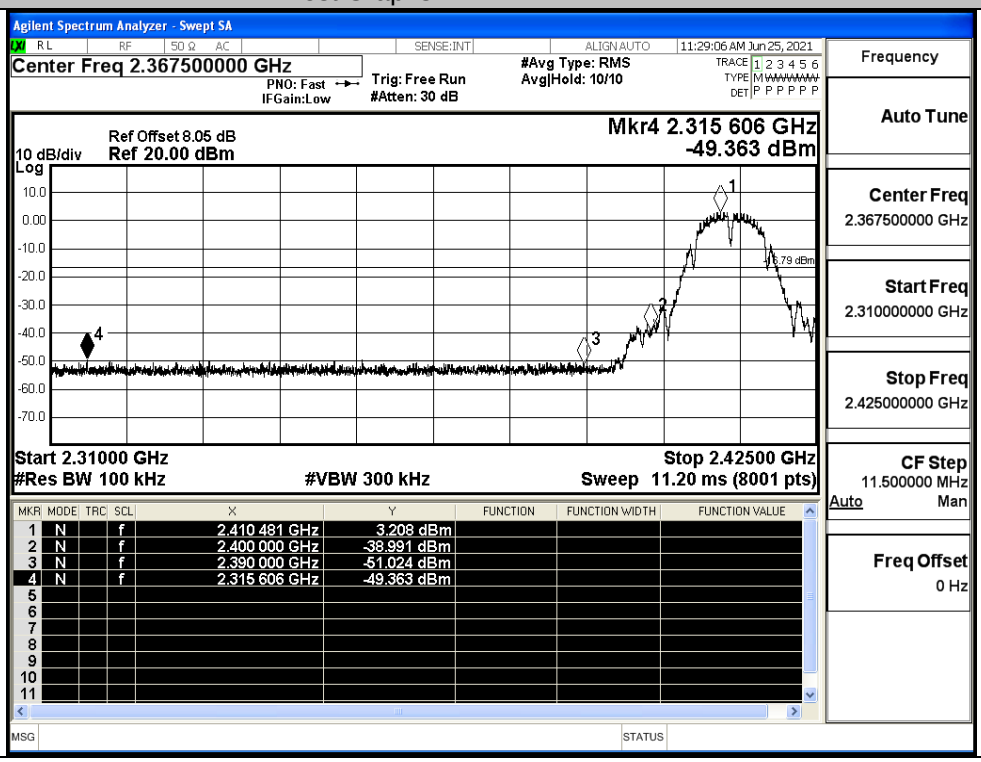
11N20SISO_LCH_Graphs	
Pref/11N20SISO/LCH	
Puw/11N20 SISO/LCH	

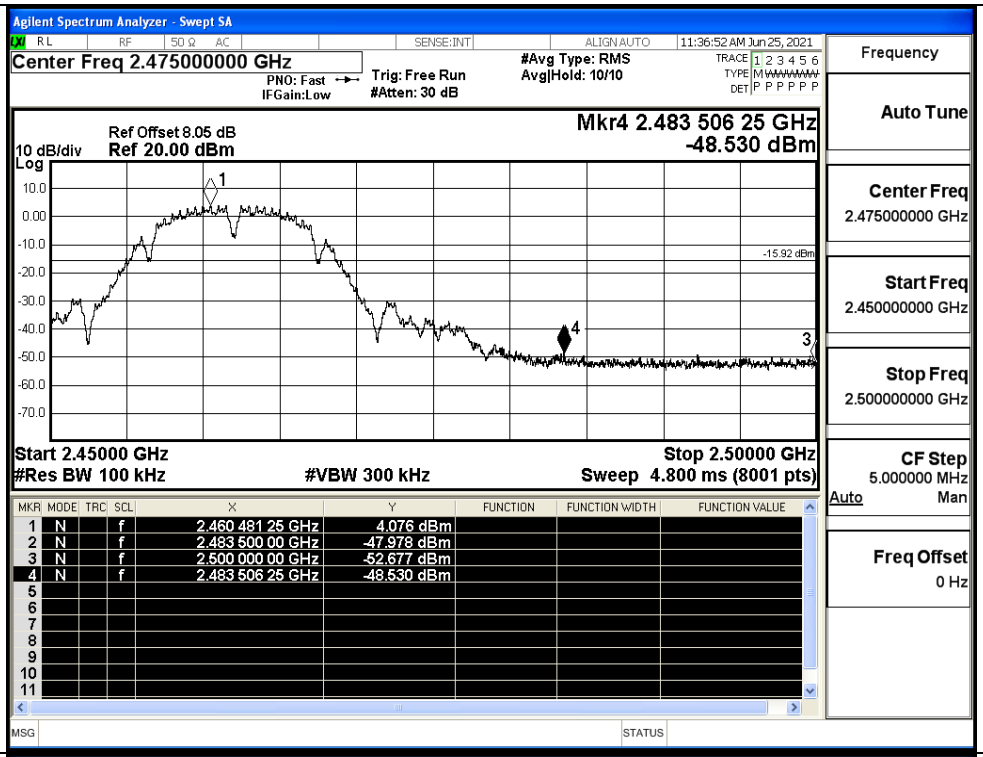
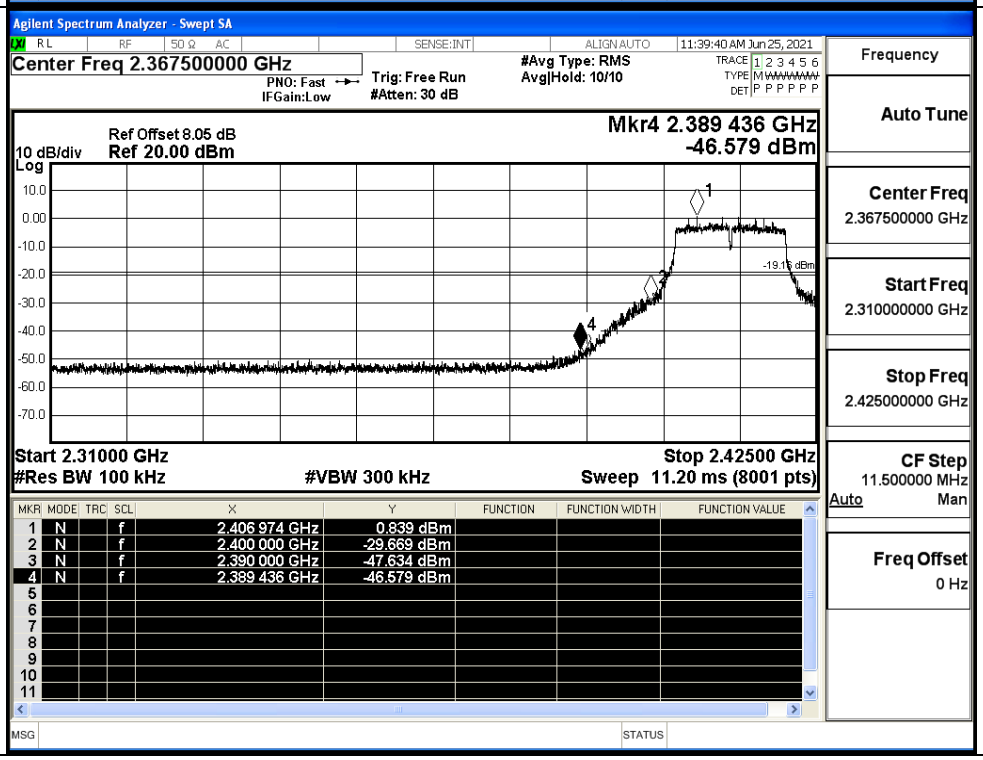
11N20SISO_MCH_Graphs	
Pref/11N20 SISO/MCH	
Puw/11N20 SISO/MCH	

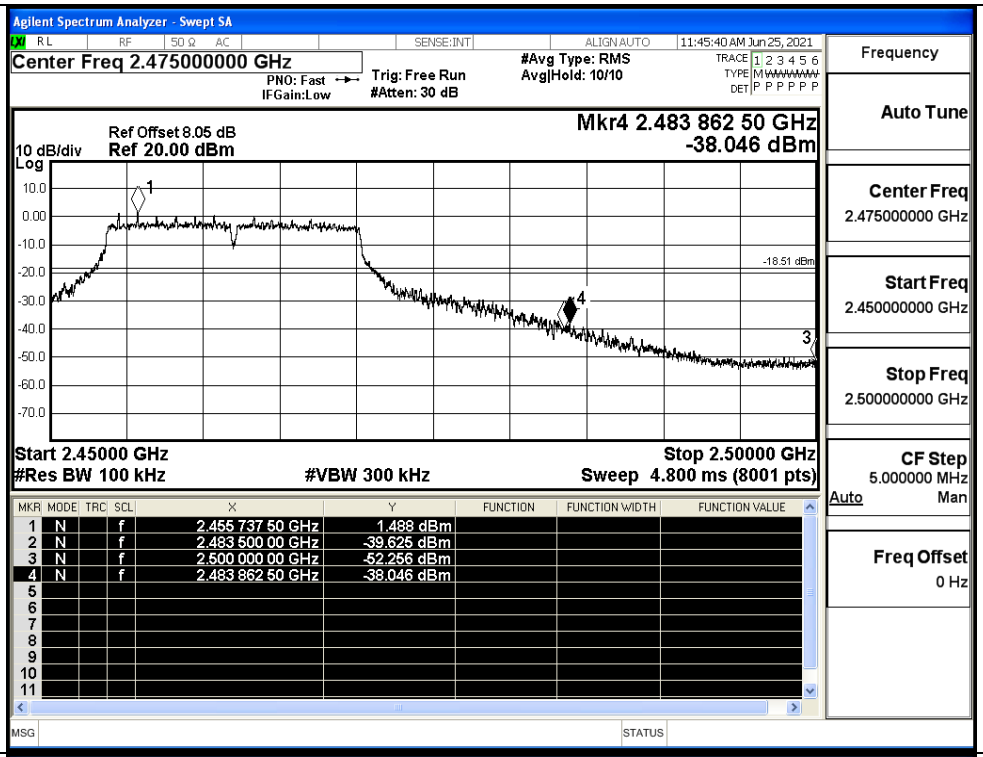
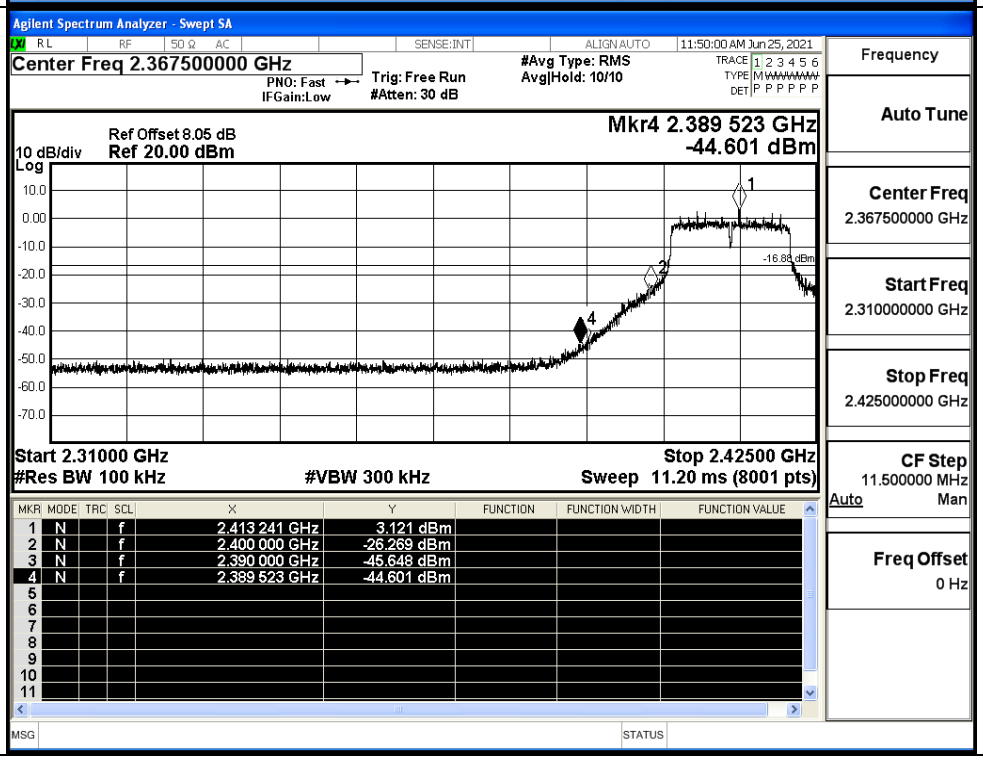
11N20SISO_HCH_Graphs	
Pref/11N20 SISO/HCH	
Puw/11N20 SISO/HCH	

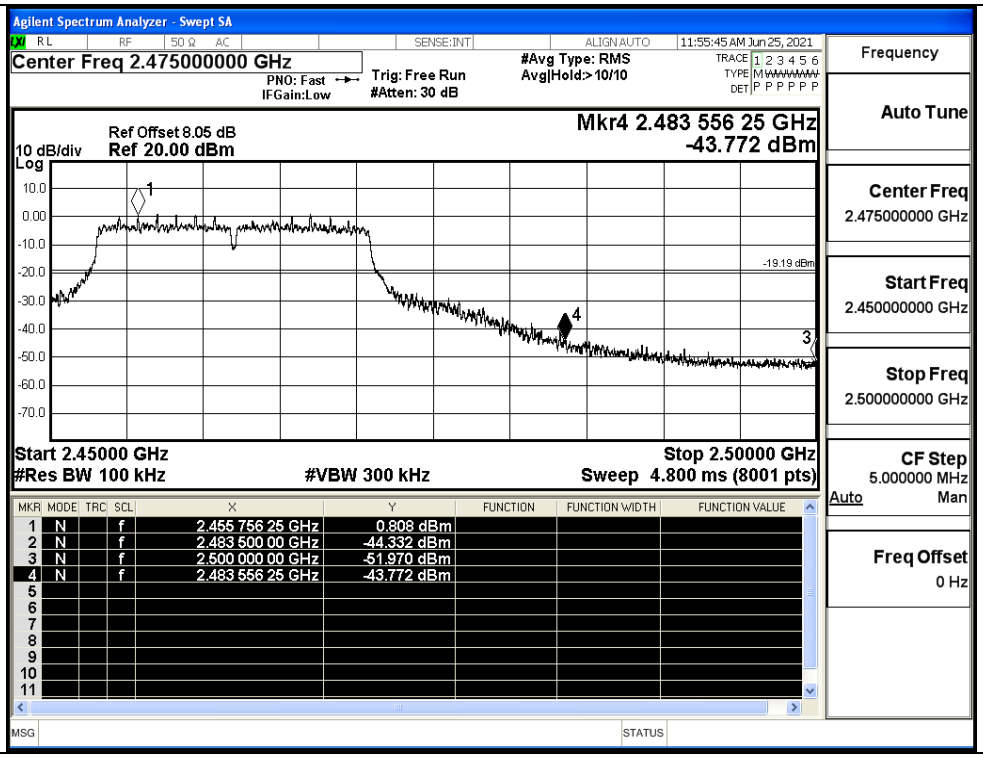
C.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	3.208	-49.363	-16.79	PASS
	HCH	4.076	-48.530	-15.92	PASS
11G	LCH	0.839	-46.579	-19.16	PASS
	HCH	1.488	-38.046	-18.51	PASS
11N20SISO	LCH	3.121	-44.601	-16.88	PASS
	HCH	0.808	-43.772	-19.19	PASS

Test Graphs	
11B/LCH	

11B/HCH	
11G/LCH	

11G/HCH	
11N20SISO/LCH	

11N20SISO/HCH		

C.7 Emissions in Restricted Bands

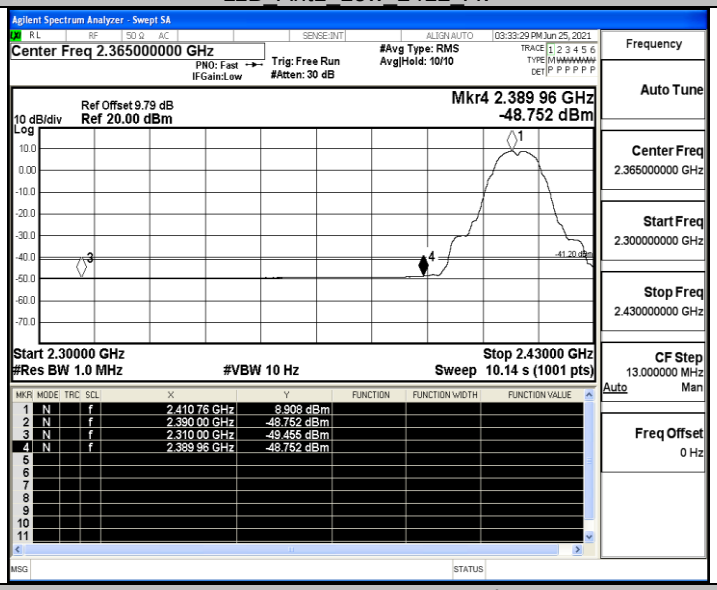
Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.46	≤-41.20	PASS
				AV	2389.960	-48.75	≤-41.20	PASS
				AV	2390.000	-48.75	≤-41.20	PASS
				Peak	2310.000	-42.18	≤-21.20	PASS
				Peak	2386.450	-40	≤-21.20	PASS
				Peak	2390.000	-44.1	≤-21.20	PASS
		High	2462	AV	2483.500	-46.09	≤-41.20	PASS
				AV	2487.740	-44.06	≤-41.20	PASS
				AV	2500.000	-48.47	≤-41.20	PASS
				Peak	2483.500	-39.57	≤-21.20	PASS
				Peak	2487.520	-38.61	≤-21.20	PASS
				Peak	2500.000	-41.92	≤-21.20	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.47	≤-41.20	PASS
				AV	2389.960	-47.7	≤-41.20	PASS
				AV	2390.000	-47.7	≤-41.20	PASS
				Peak	2310.000	-44.84	≤-21.20	PASS
				Peak	2389.310	-39.46	≤-21.20	PASS
				Peak	2390.000	-43.01	≤-21.20	PASS
		High	2462	AV	2483.500	-47.17	≤-41.20	PASS
				AV	2487.410	-47.03	≤-41.20	PASS
				AV	2500.000	-48.45	≤-41.20	PASS
				Peak	2483.500	-41.83	≤-21.20	PASS
				Peak	2489.060	-38.64	≤-21.20	PASS
				Peak	2500.000	-44.41	≤-21.20	PASS
11N20SISO	Ant1	Low	2412	AV	2310.000	-49.45	≤-41.20	PASS
				AV	2389.960	-45.17	≤-41.20	PASS
				AV	2390.000	-45.17	≤-41.20	PASS
				Peak	2310.000	-42.67	≤-21.20	PASS
				Peak	2389.960	-32.07	≤-21.20	PASS
				Peak	2390.000	-32.07	≤-21.20	PASS
		High	2462	AV	2483.500	-43.48	≤-41.20	PASS
				AV	2488.070	-42.36	≤-41.20	PASS
				AV	2500.000	-48.44	≤-41.20	PASS
				Peak	2483.500	-37.9	≤-21.20	PASS
				Peak	2486.970	-34.52	≤-21.20	PASS
				Peak	2500.000	-46.16	≤-21.20	PASS

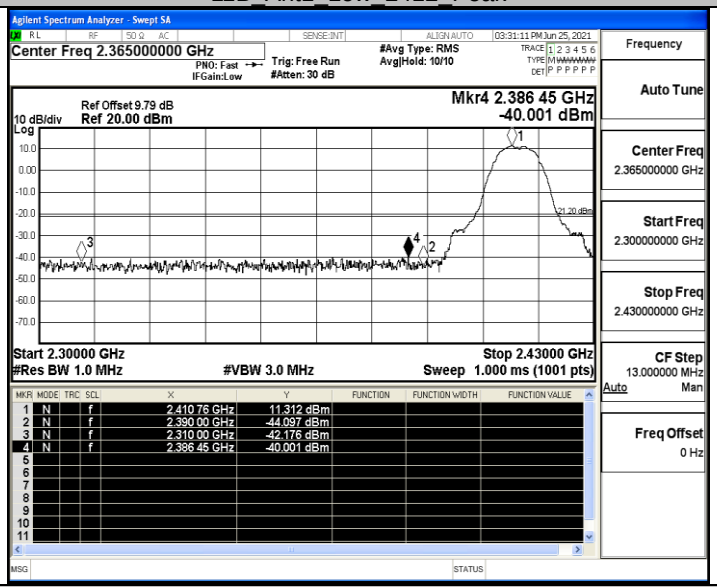
Note：
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

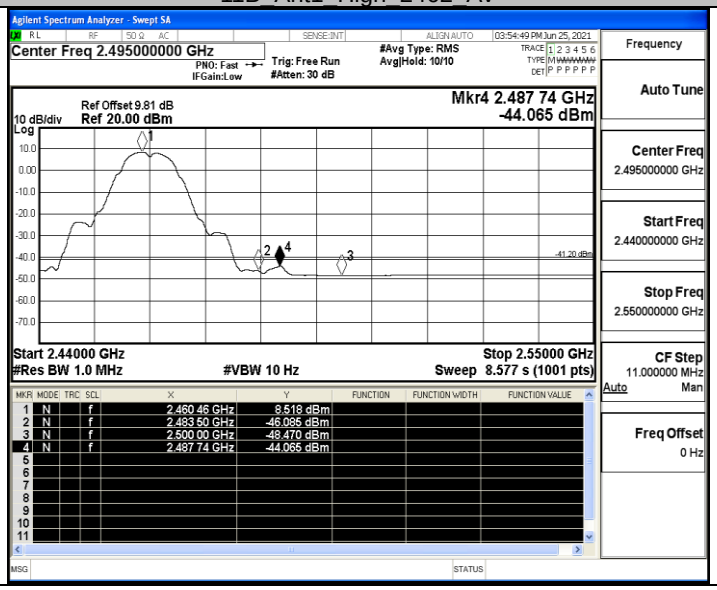
11B_Ant1_Low_2412_AV



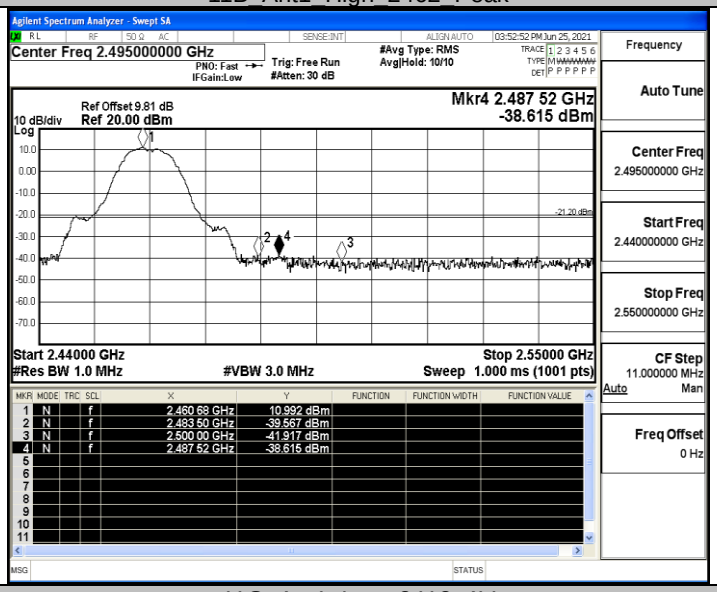
11B_Ant1_Low_2412_Peak



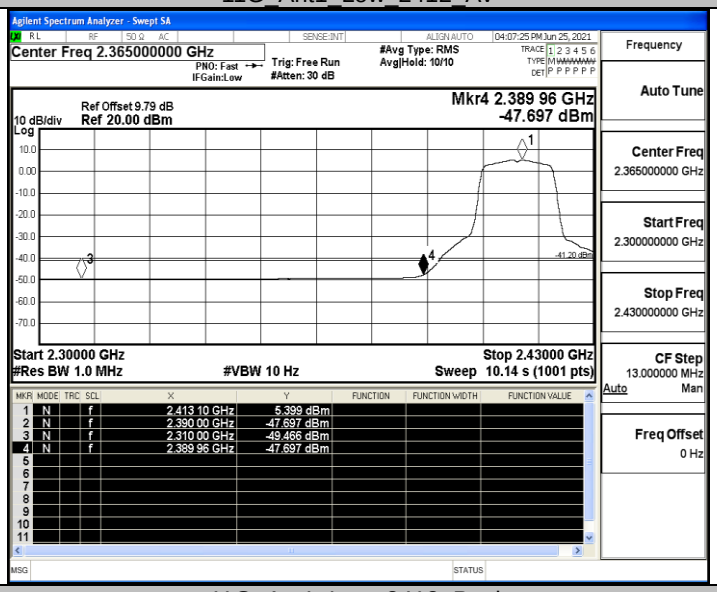
11B_Ant1_High_2462_AV



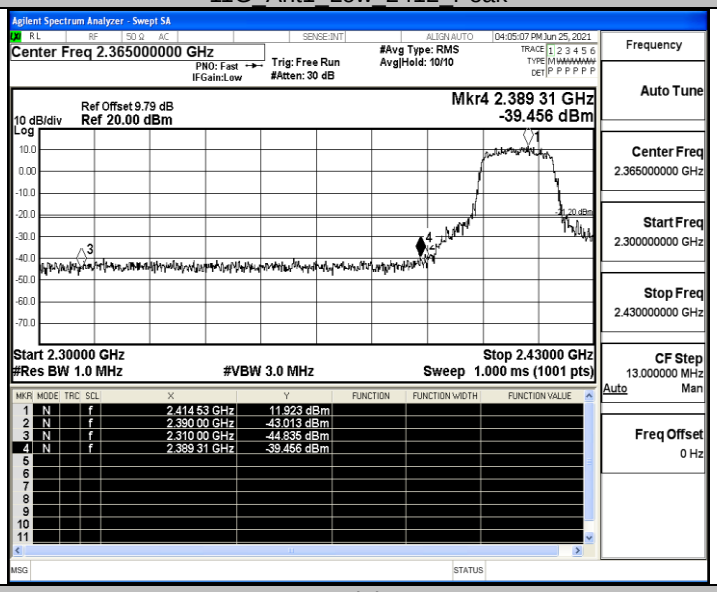
11B_Ant1_High_2462_Peak



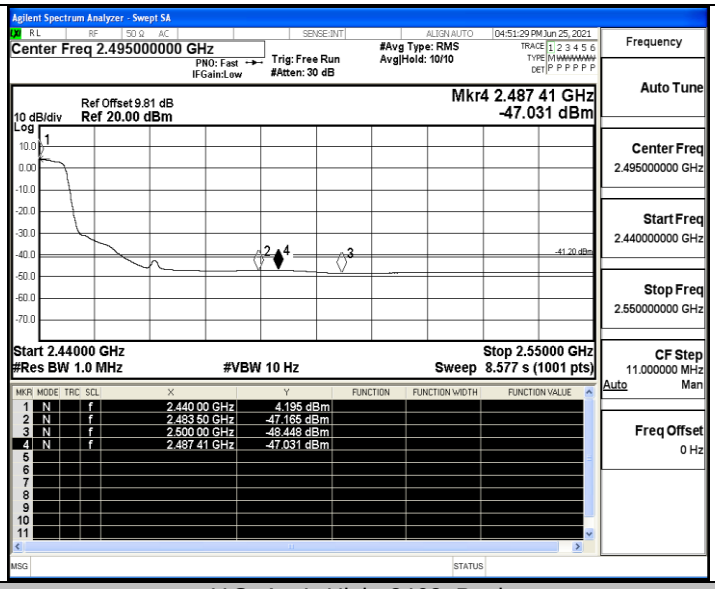
11G_Ant1_Low_2412_AV



11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV



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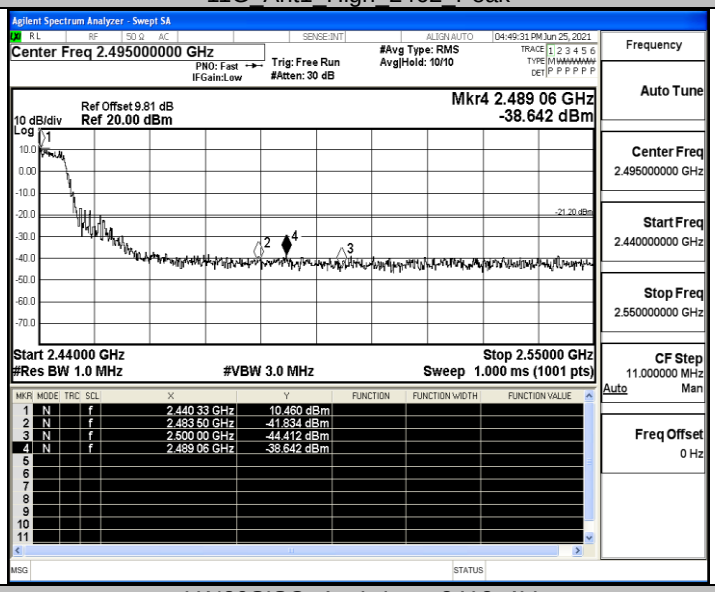
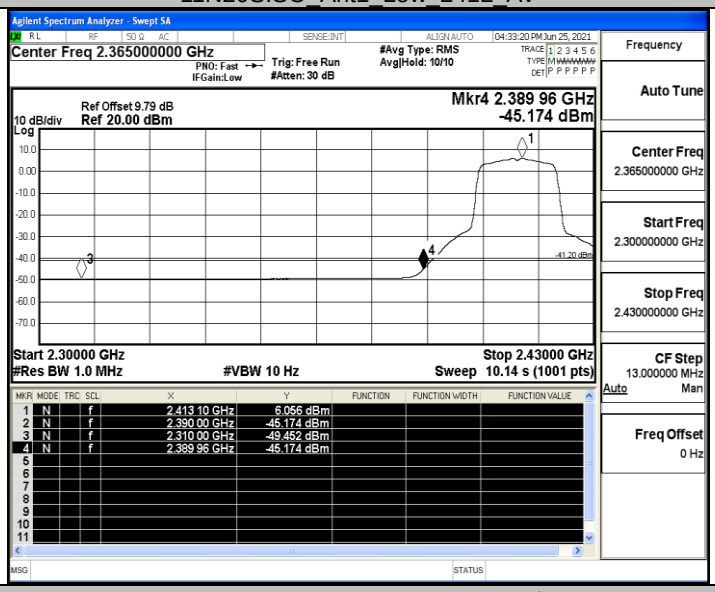


11N20SISO_Ant1_Low_2412_AV



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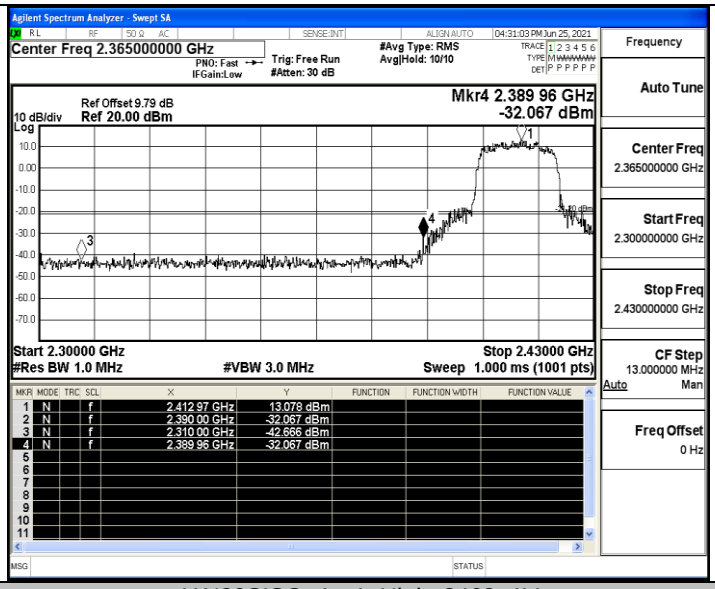

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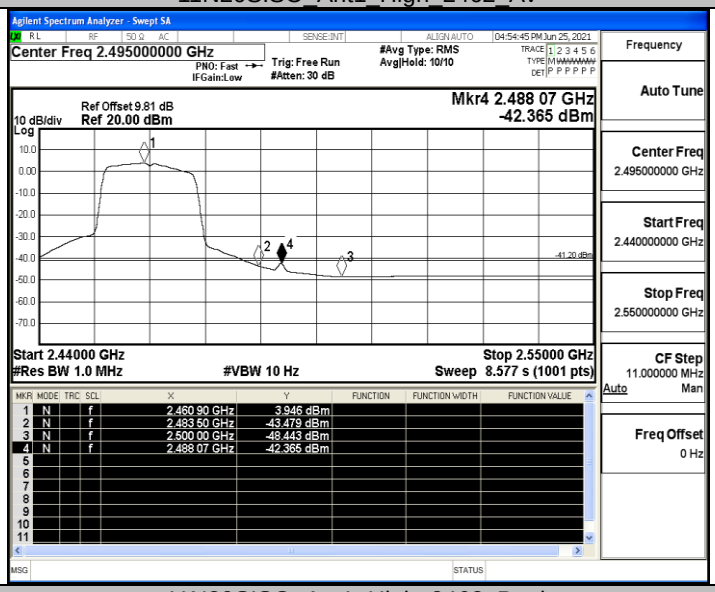

11N20SISO_Ant1_High_2462_Peak