Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Vivi Wireless Presentation

Trade Mark: Vivi

Test Model: VWP-205-16

Environmental Conditions

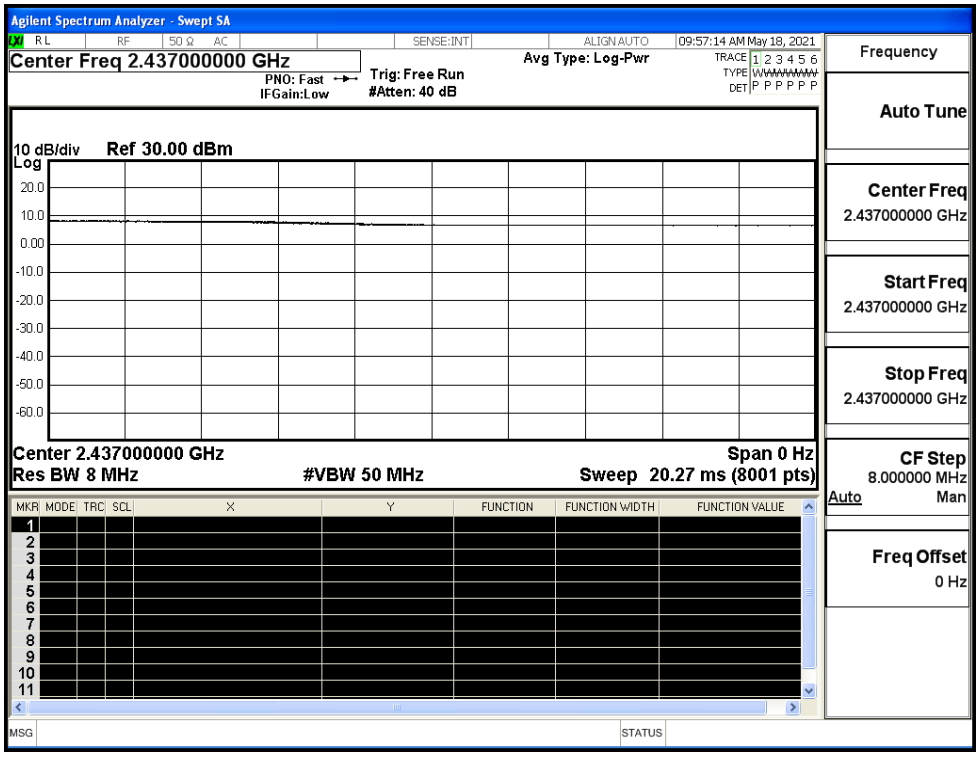
Temperature:	20.1℃
Relative Humidity:	51.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

C.1 Duty Cycle

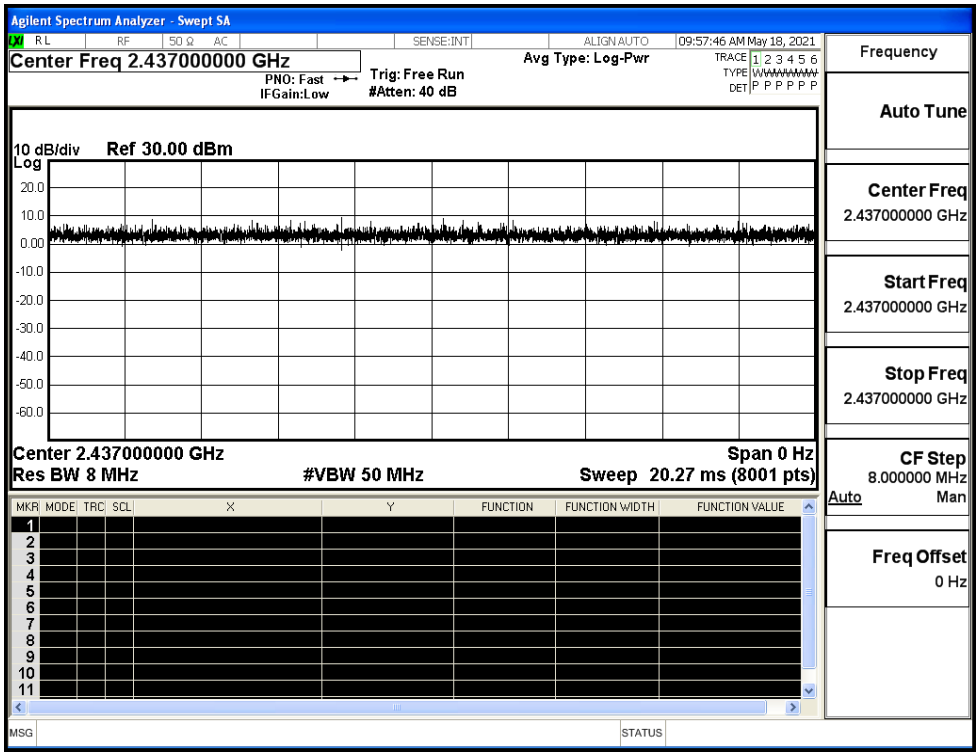
ANT0

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

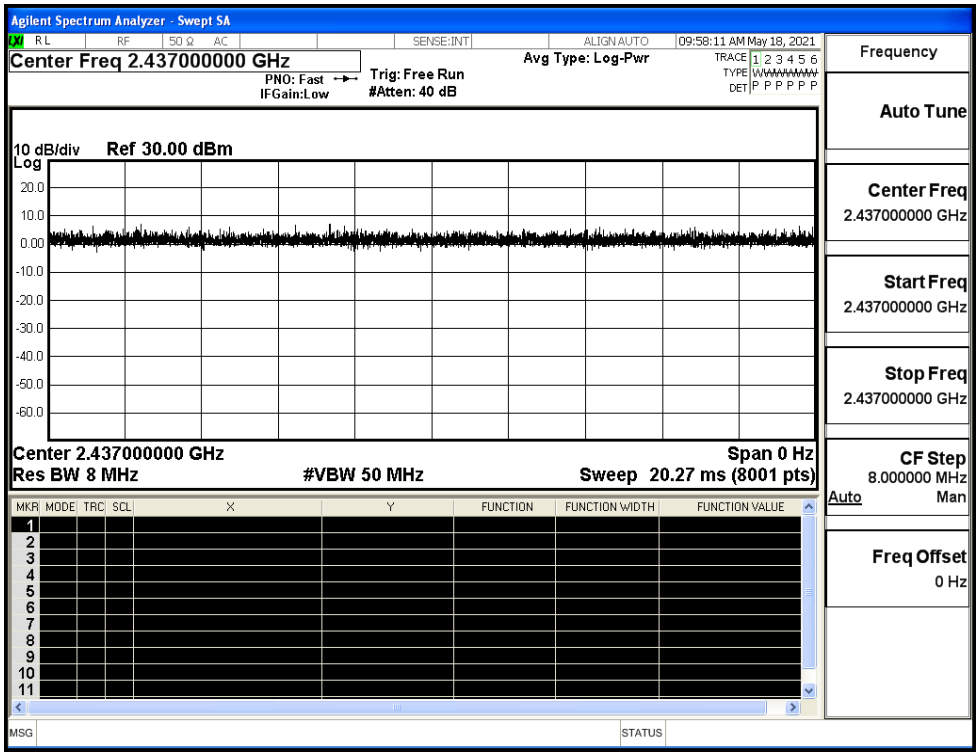
Duty Cycle_11B_2437_Ant1



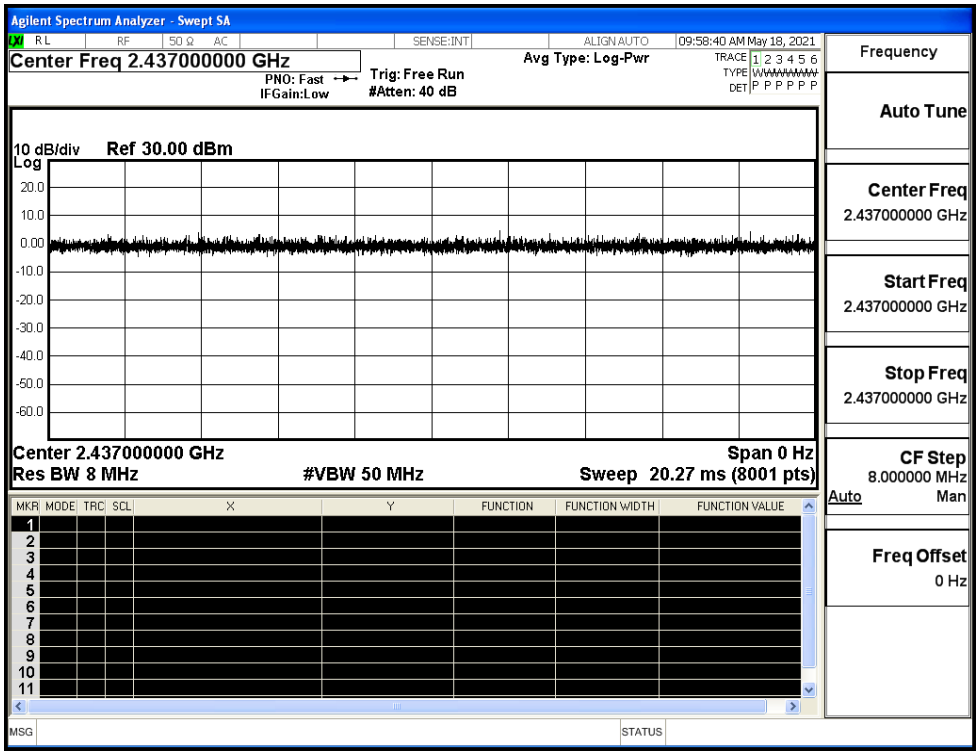
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



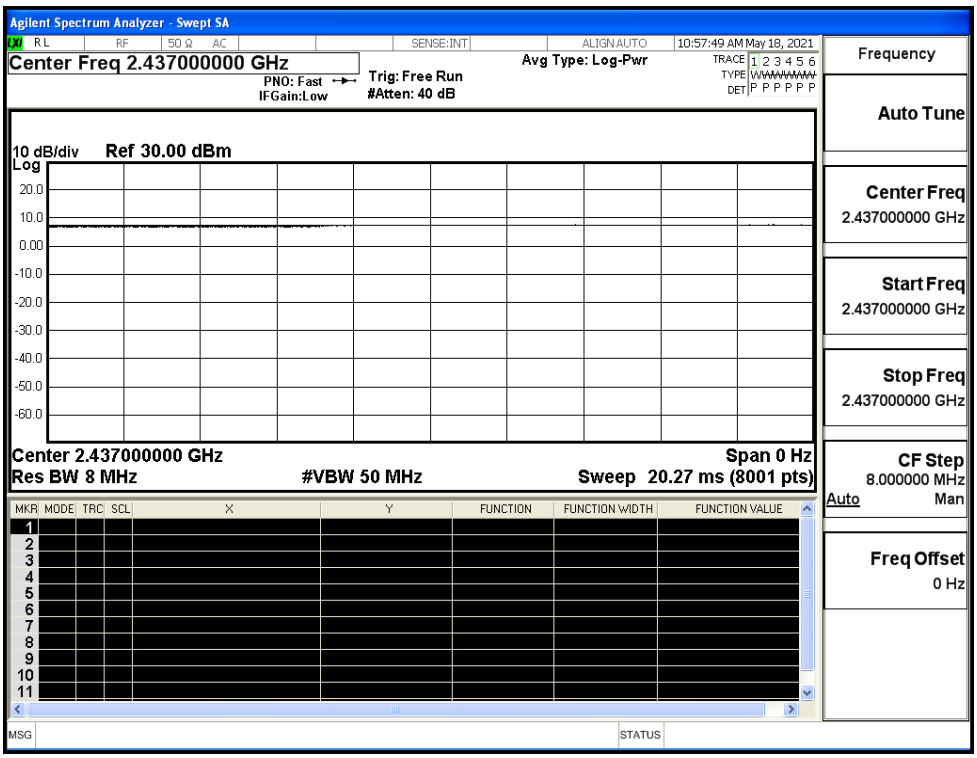
Duty Cycle_11N40SISO_2437_Ant1



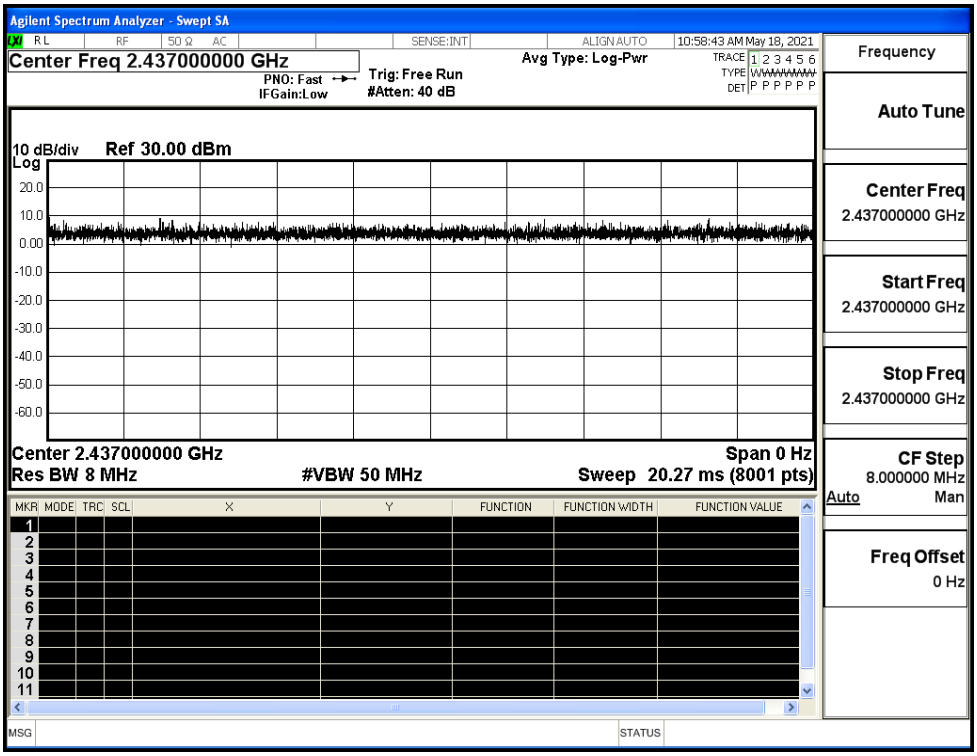
ANT1

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

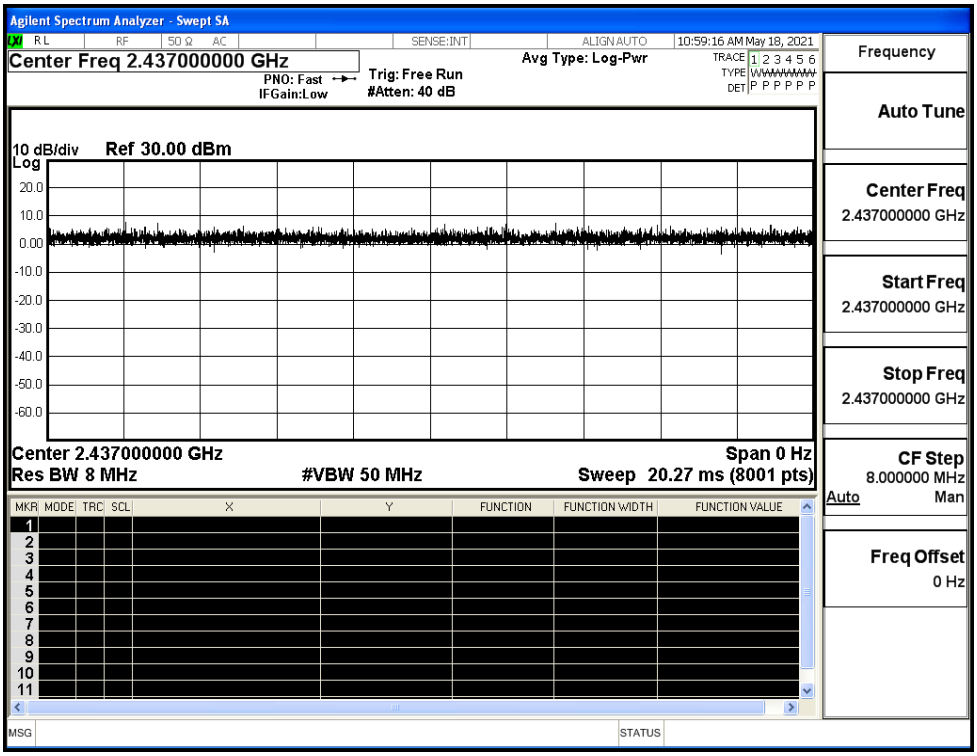
Duty Cycle_11B_2437_Ant1



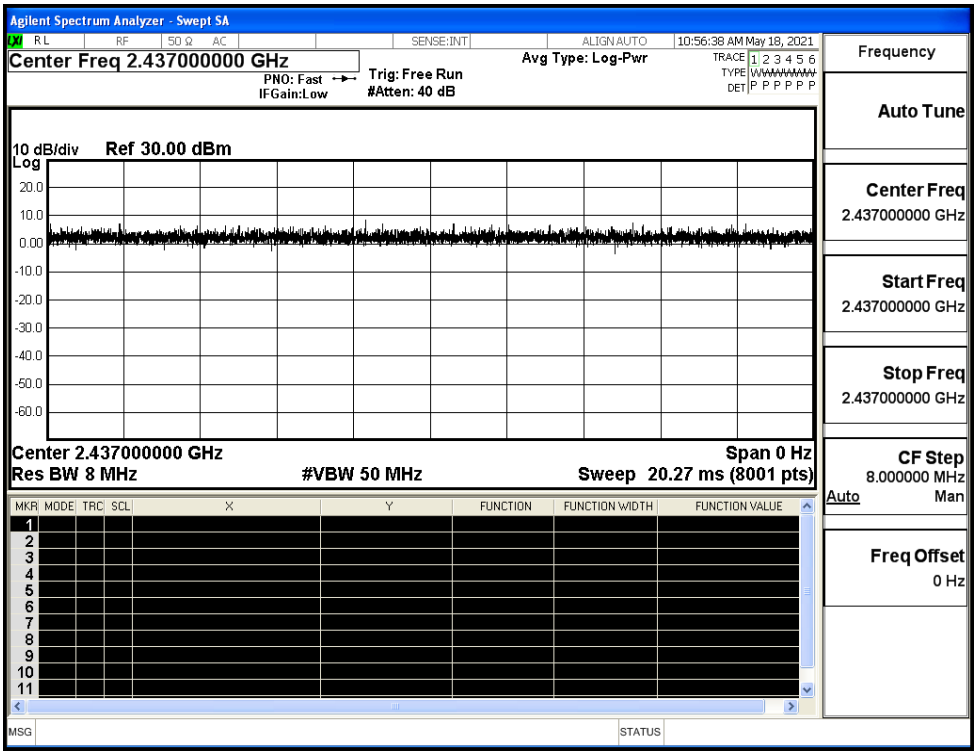
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1



C.2 Maximum Conducted Output Power

ANT0

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	13.64	30	PASS
	MCH	14.7	30	PASS
	HCH	14.27	30	PASS
11G	LCH	15.5	30	PASS
	MCH	15.44	30	PASS
	HCH	15.16	30	PASS
11N20SISO	LCH	15.43	30	PASS
	MCH	15.57	30	PASS
	HCH	15.05	30	PASS
11N40SISO	LCH	14.74	30	PASS
	MCH	14.58	30	PASS
	HCH	14.55	30	PASS

ANT1

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	13.55	30	PASS
	MCH	13.65	30	PASS
	HCH	13.25	30	PASS
11G	LCH	15.52	30	PASS
	MCH	14.48	30	PASS
	HCH	13.55	30	PASS
11N20SISO	LCH	14.48	30	PASS
	MCH	14.34	30	PASS
	HCH	14.31	30	PASS
11N40SISO	LCH	14.98	30	PASS
	MCH	14.88	30	PASS
	HCH	16.31	30	PASS

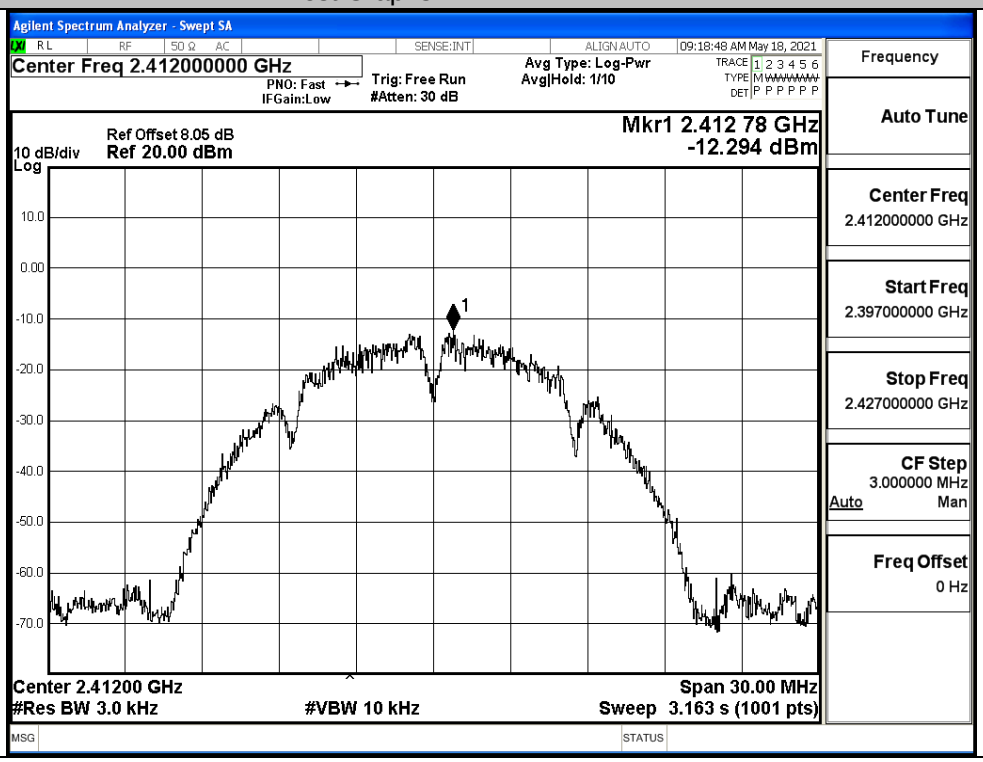
MIMO

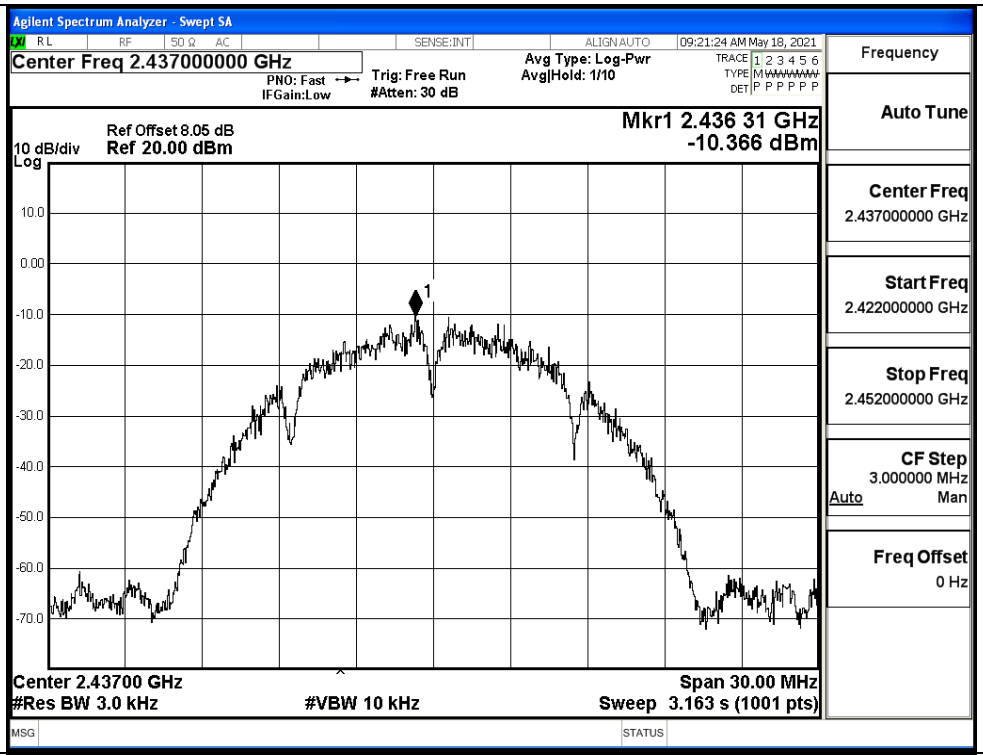
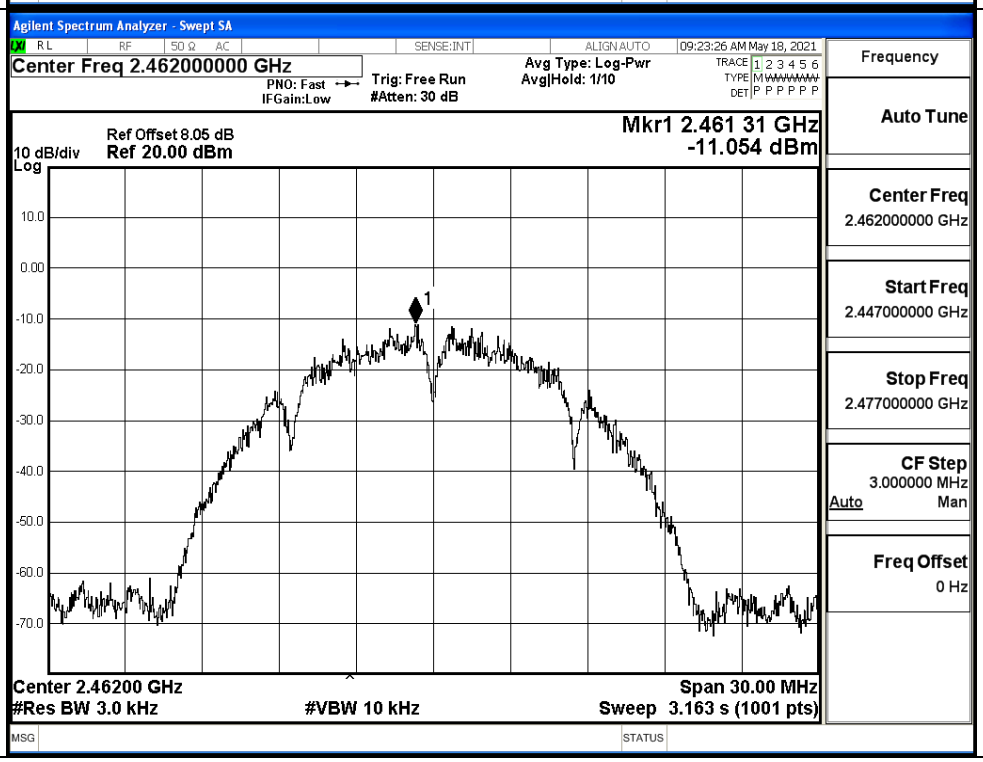
Mode	Channel	ANT 0 [dBm]	ANT 1 [dBm]	MIMO [dBm]	Limit [dBm]	Verdict
11N20	LCH	15.43	14.48	17.99	29.99	PASS
	MCH	15.57	14.34	18.01	29.99	PASS
	HCH	15.05	14.31	17.71	29.99	PASS
11N40	LCH	14.74	14.98	17.87	29.99	PASS
	MCH	14.58	14.88	17.74	29.99	PASS
	HCH	14.55	16.31	18.53	29.99	PASS

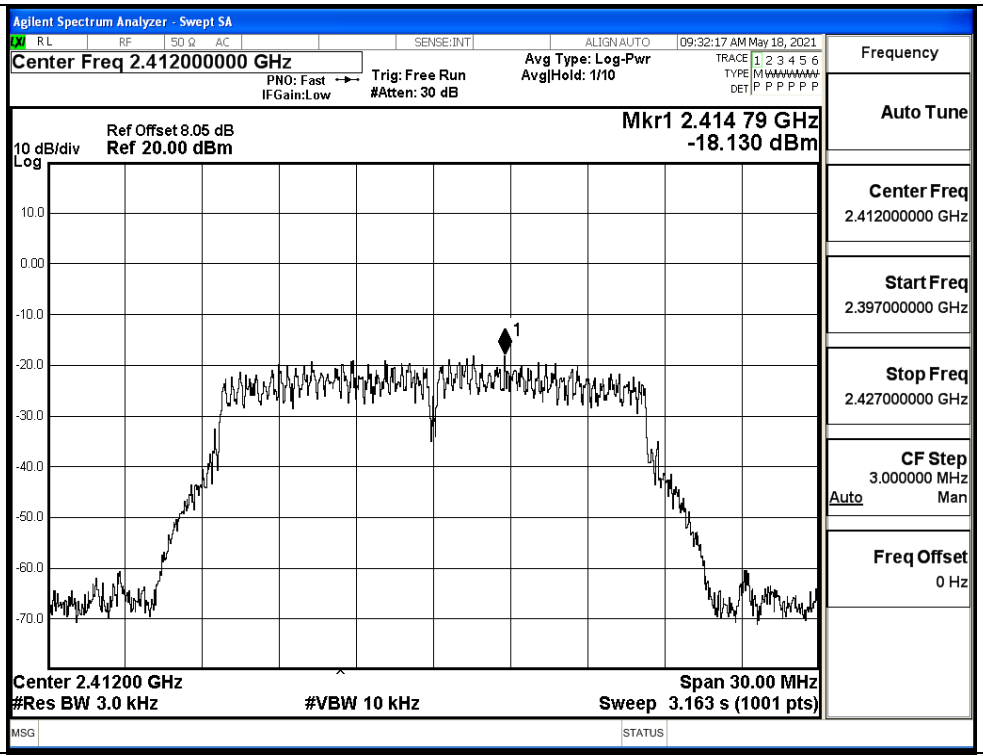
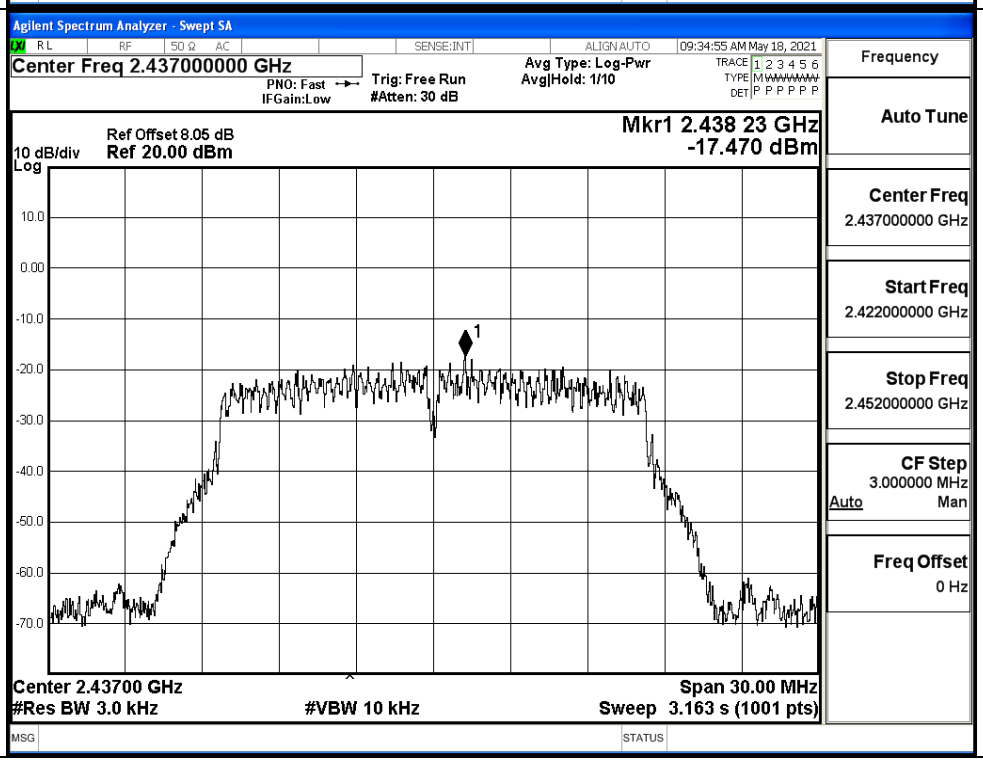
C.3 Maximum Power Spectral Density

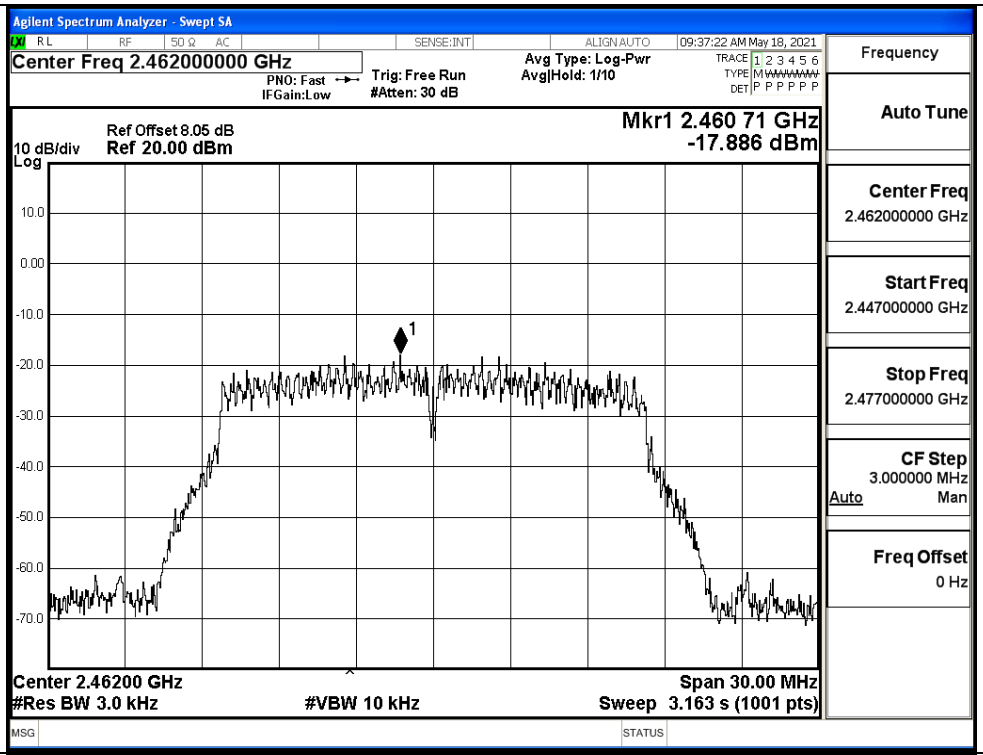
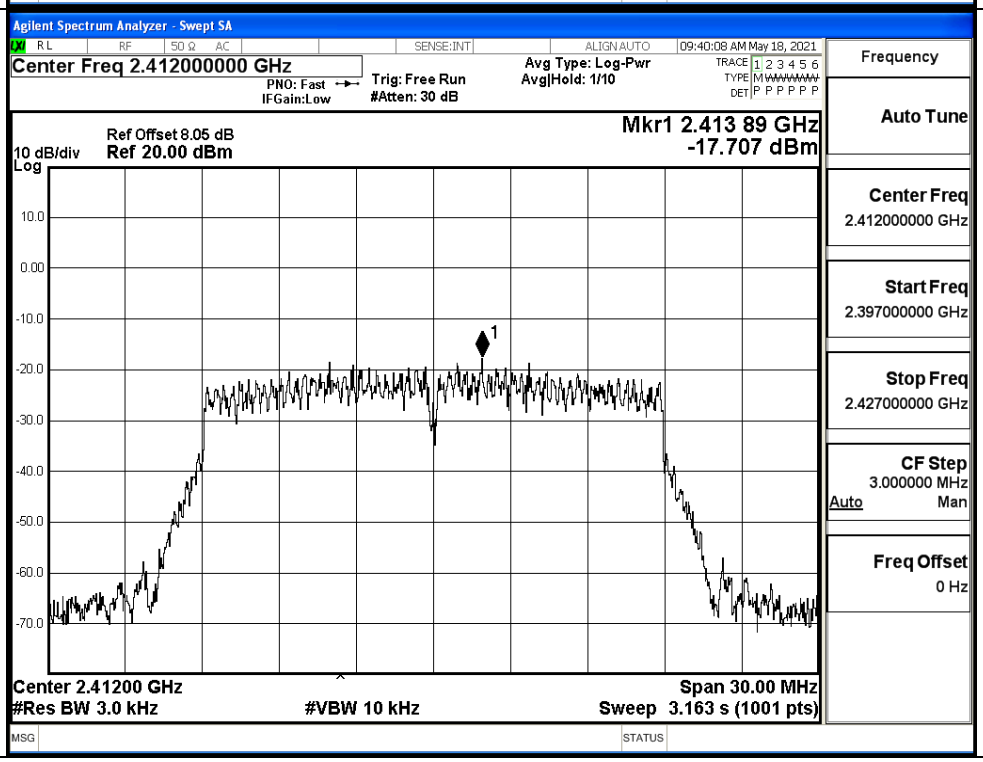
ANT0

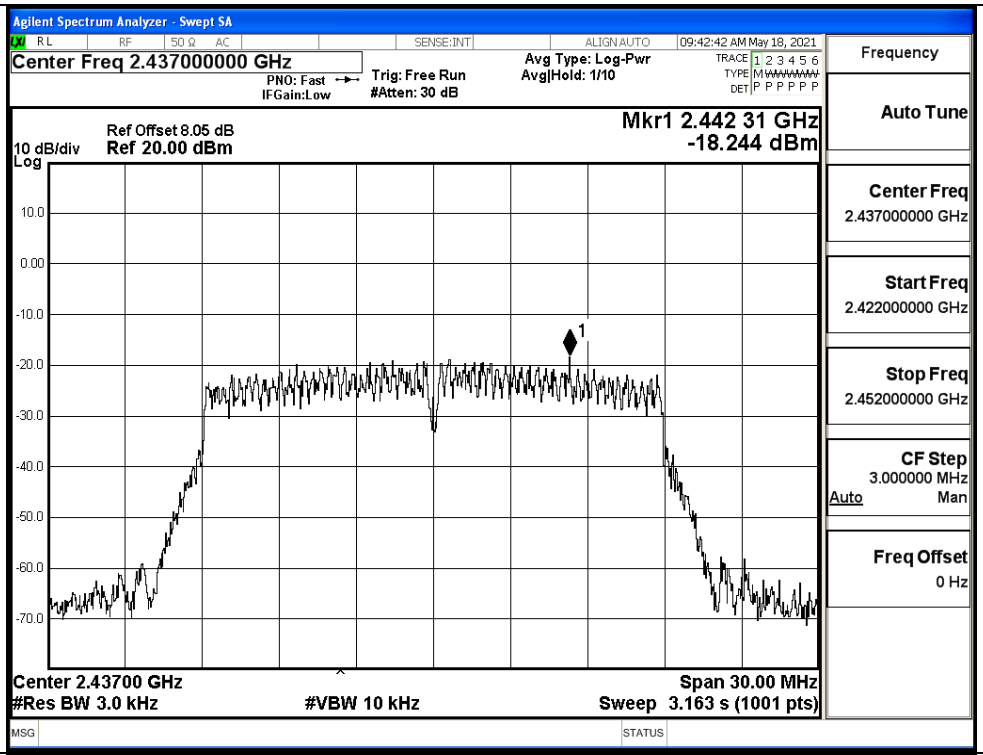
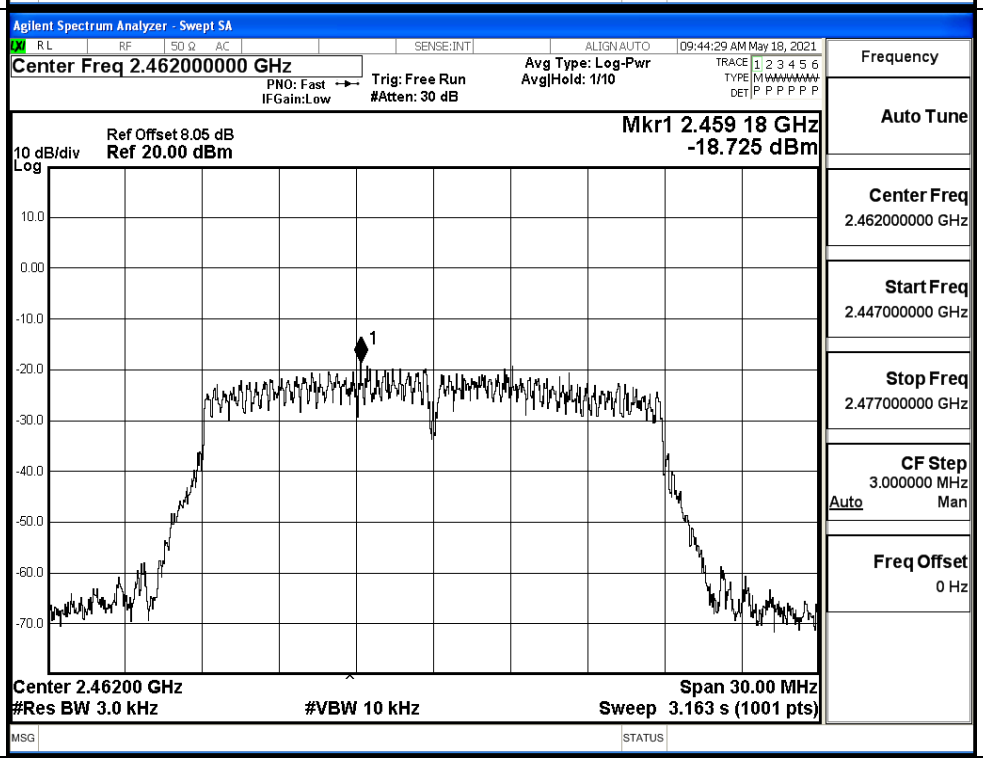
Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-12.294	8	PASS
	MCH	-10.366	8	PASS
	HCH	-11.054	8	PASS
11G	LCH	-18.130	8	PASS
	MCH	-17.470	8	PASS
	HCH	-17.886	8	PASS
11N20SISO	LCH	-17.707	8	PASS
	MCH	-18.244	8	PASS
	HCH	-18.725	8	PASS
11N40SISO	LCH	-21.165	8	PASS
	MCH	-21.118	8	PASS
	HCH	-21.205	8	PASS

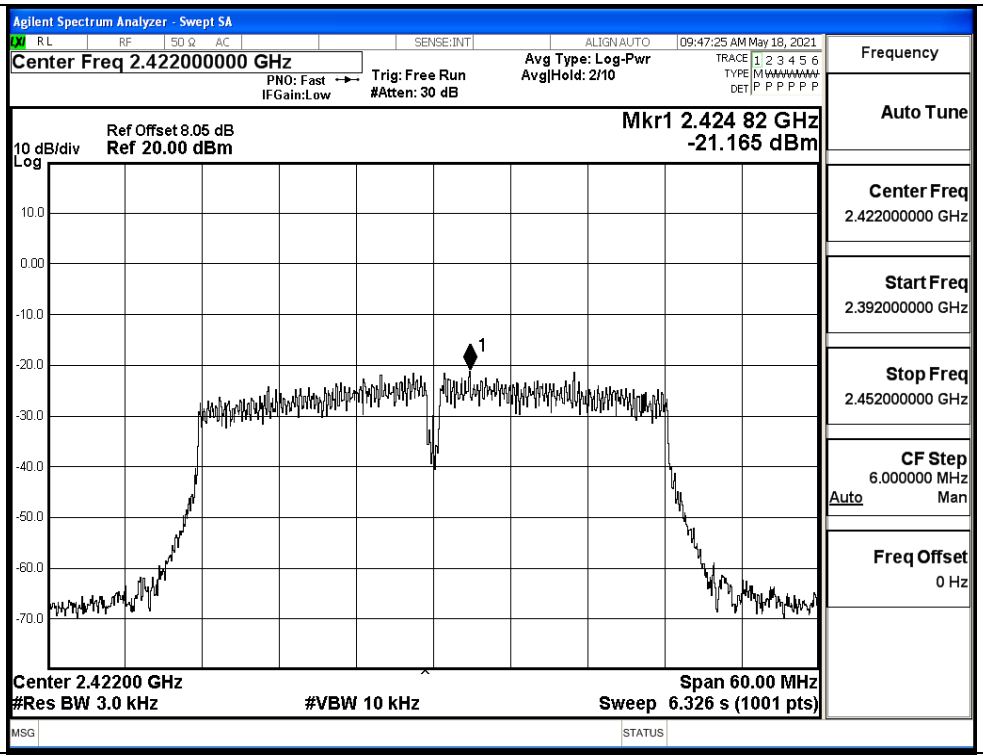
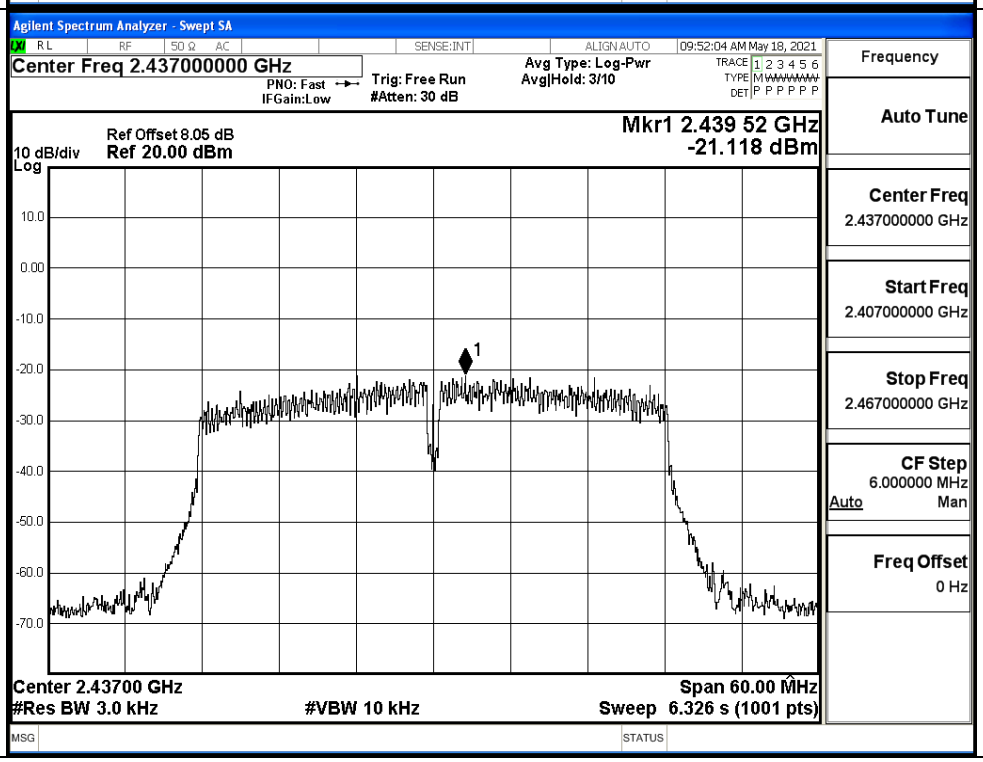
Test Graphs	
11B/LCH	

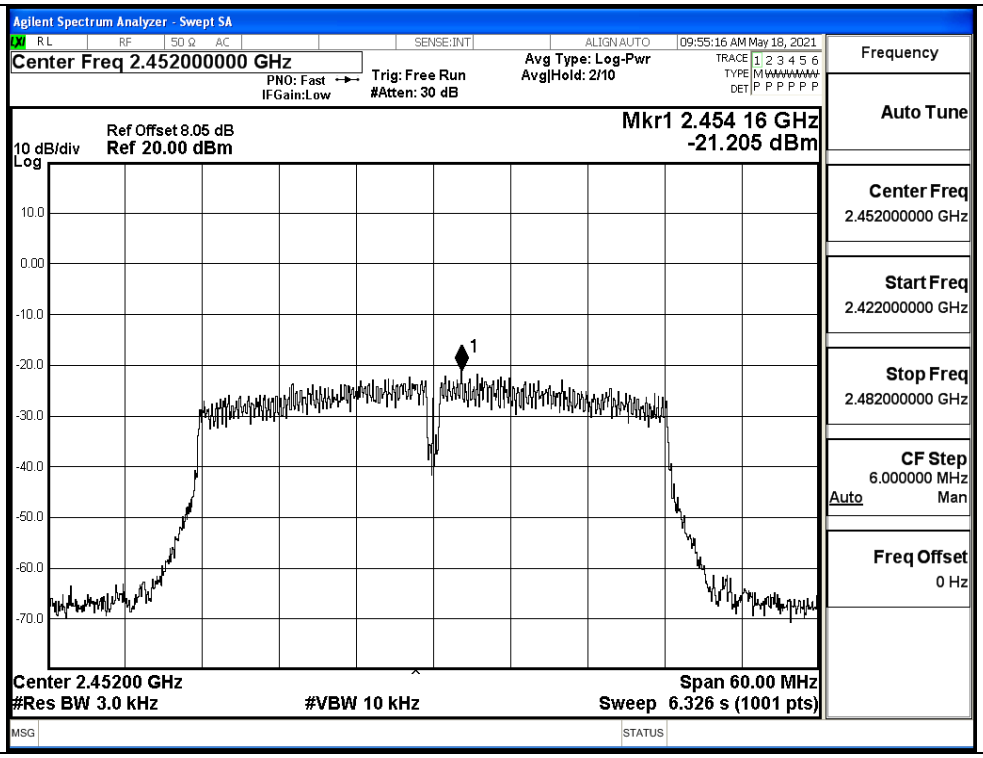
11B/MCH		
11B/HCH		

11G/LCH		
11G/MCH		

11G/HCH		
11N20SISO/LCH		

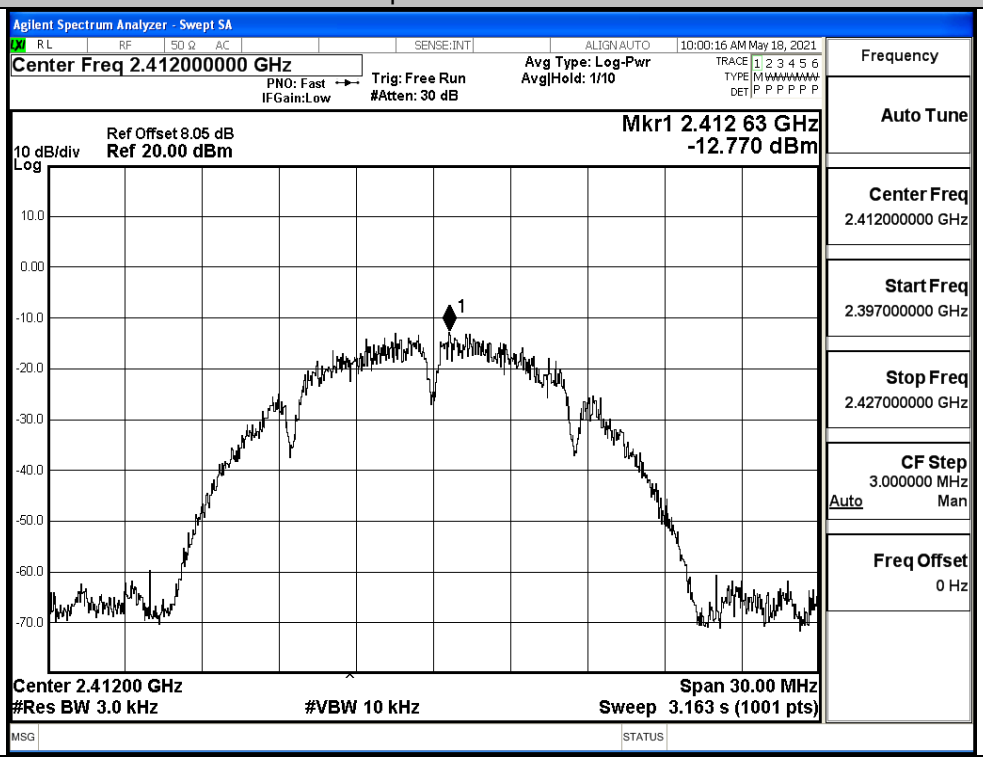
11N20SISO/MCH		
11N20SISO/HCH		

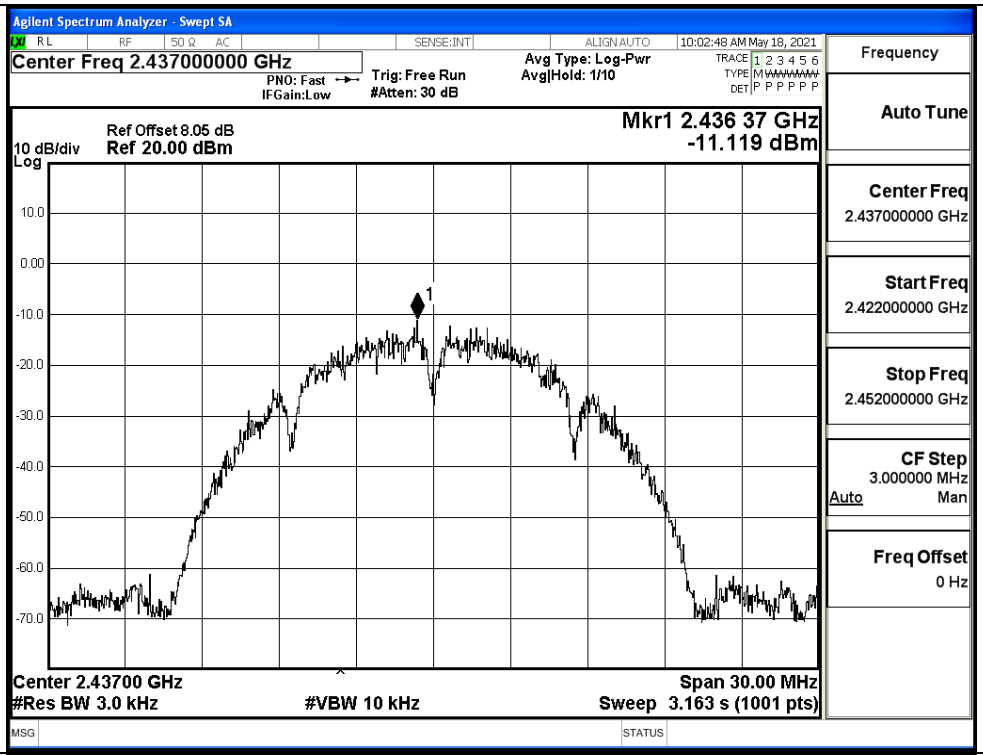
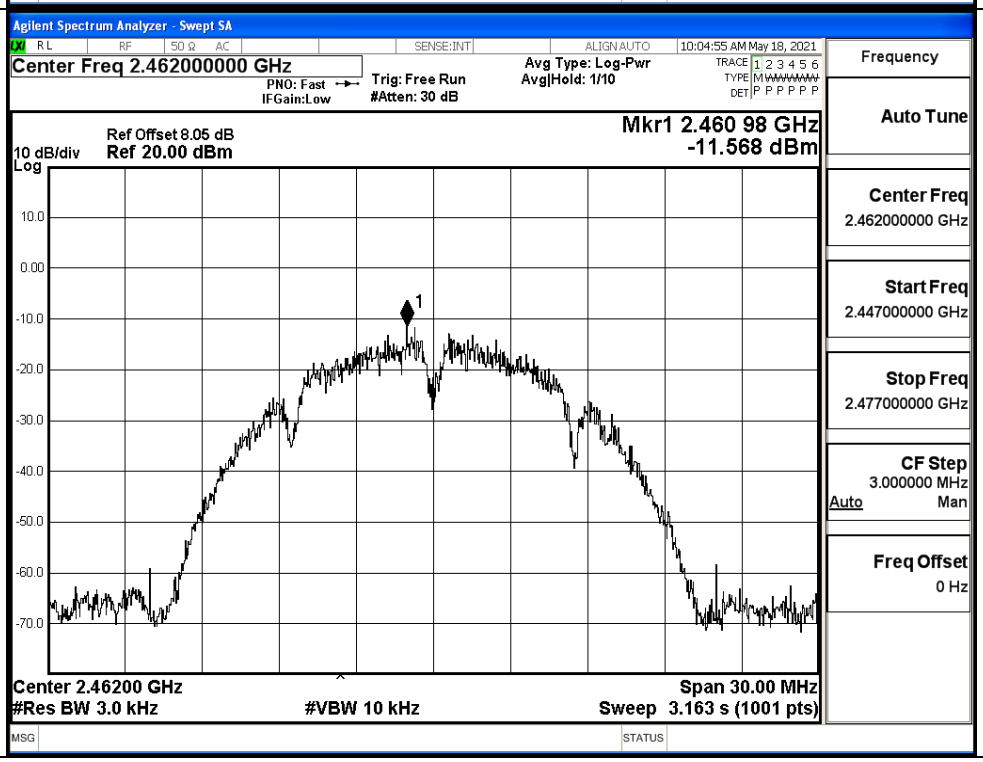
11N40SISO/LCH		
11N40SISO/MCH		

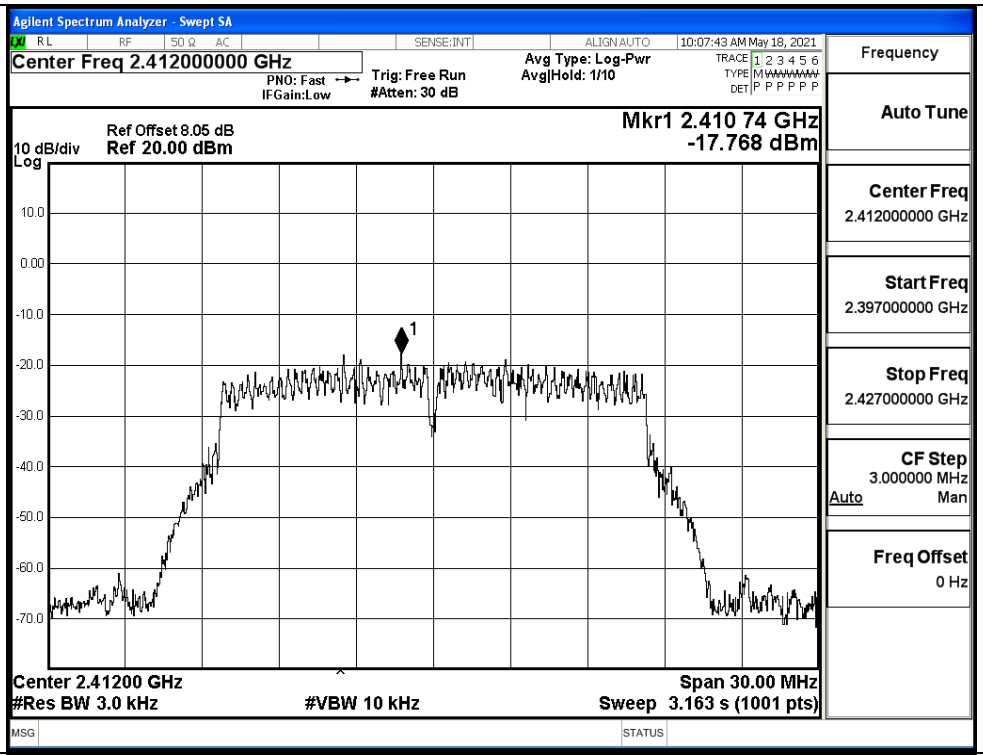
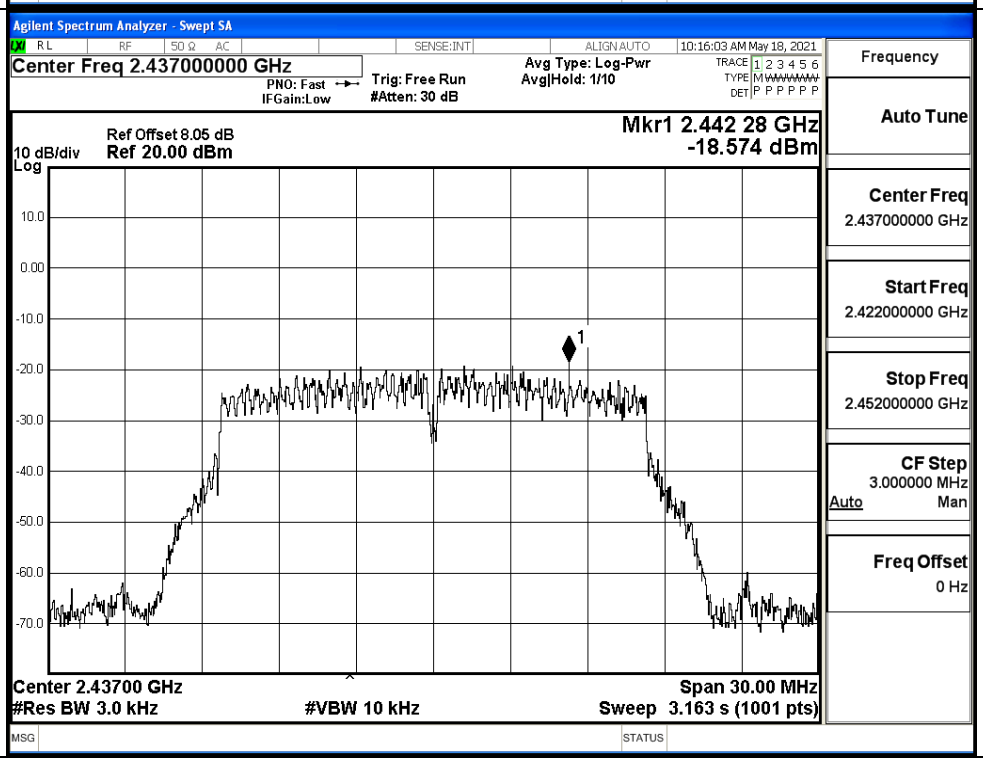
11N40SISO/HCH		

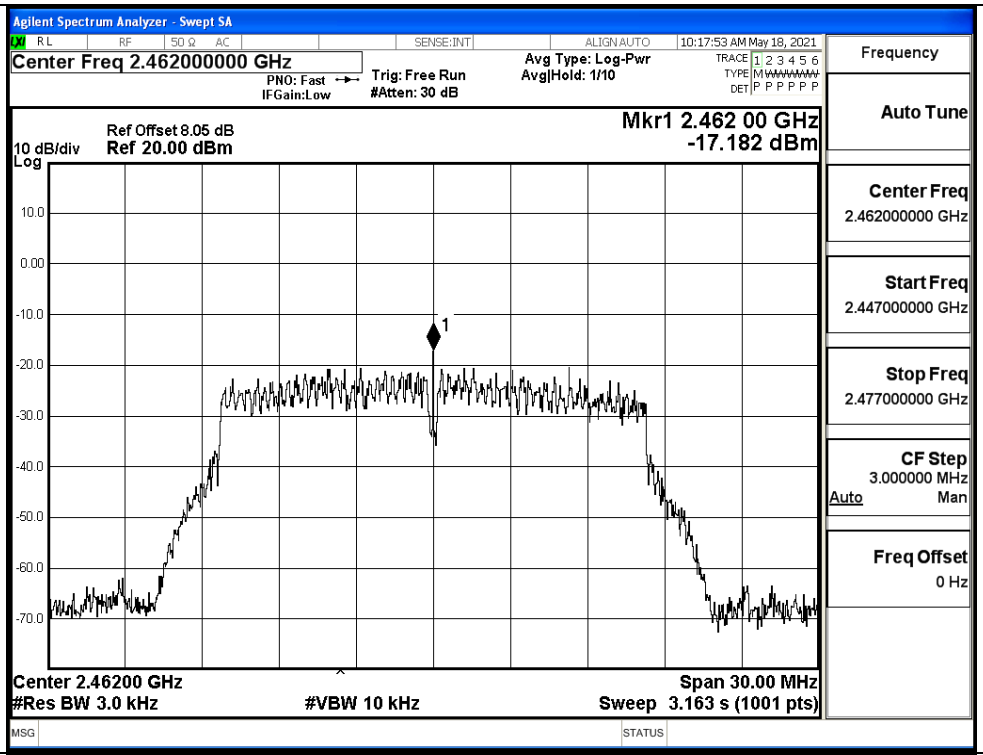
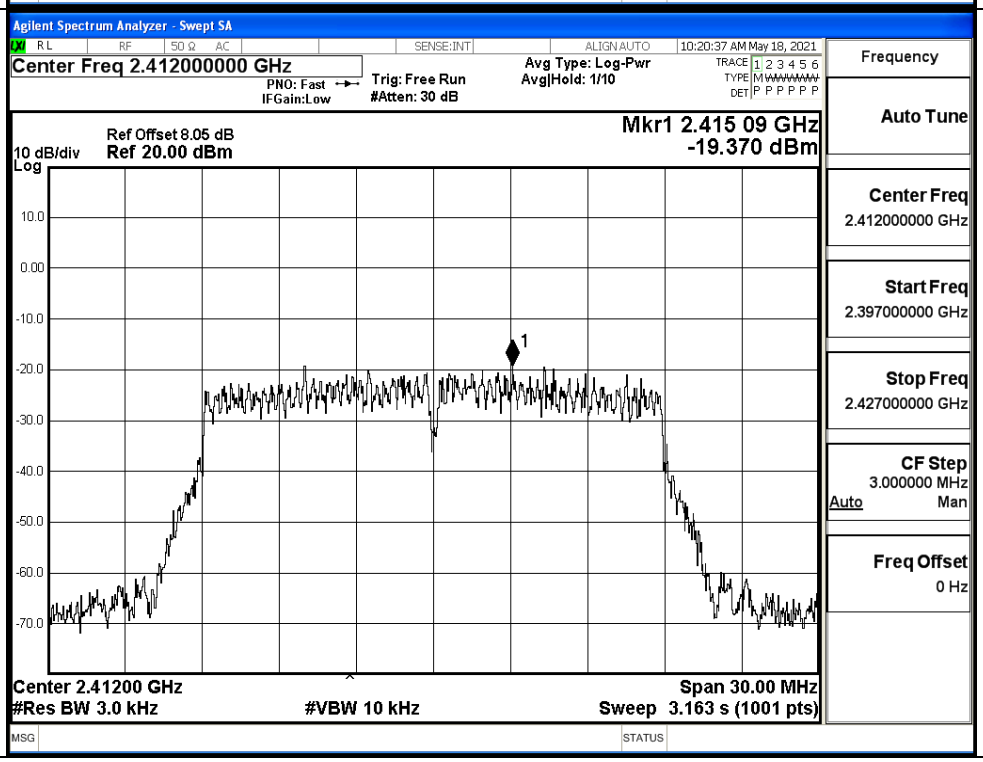
ANT1

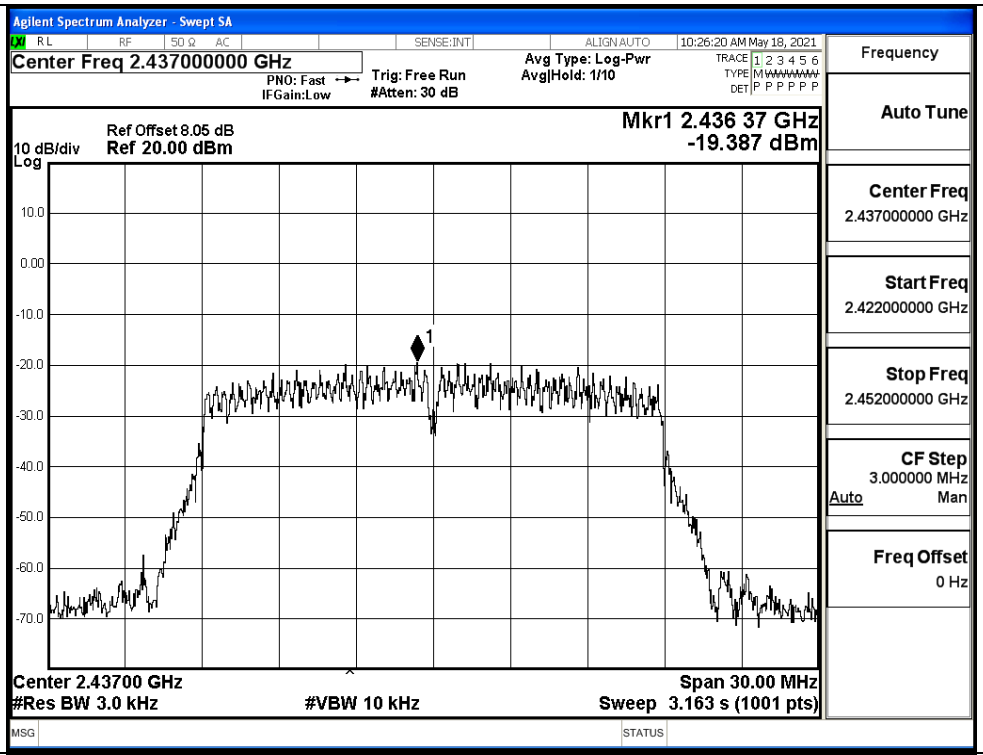
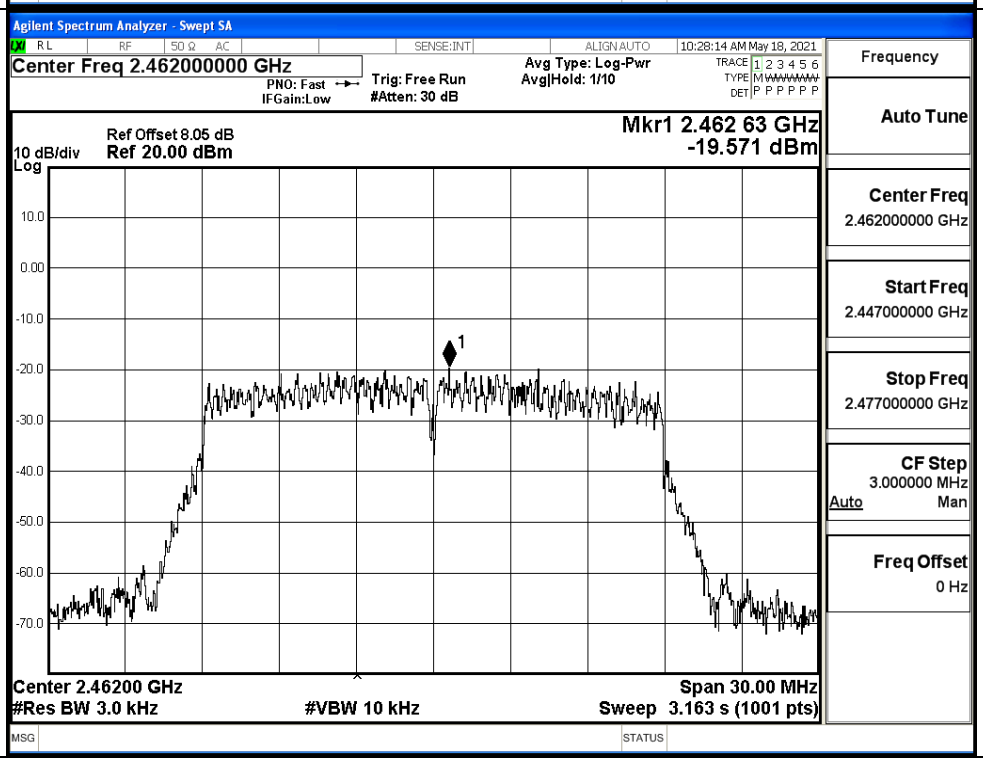
Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-12.770	8	PASS
	MCH	-11.119	8	PASS
	HCH	-11.568	8	PASS
11G	LCH	-17.768	8	PASS
	MCH	-18.574	8	PASS
	HCH	-17.182	8	PASS
11N20SISO	LCH	-19.370	8	PASS
	MCH	-19.387	8	PASS
	HCH	-19.571	8	PASS
11N40SISO	LCH	-20.551	8	PASS
	MCH	-20.910	8	PASS
	HCH	-20.008	8	PASS

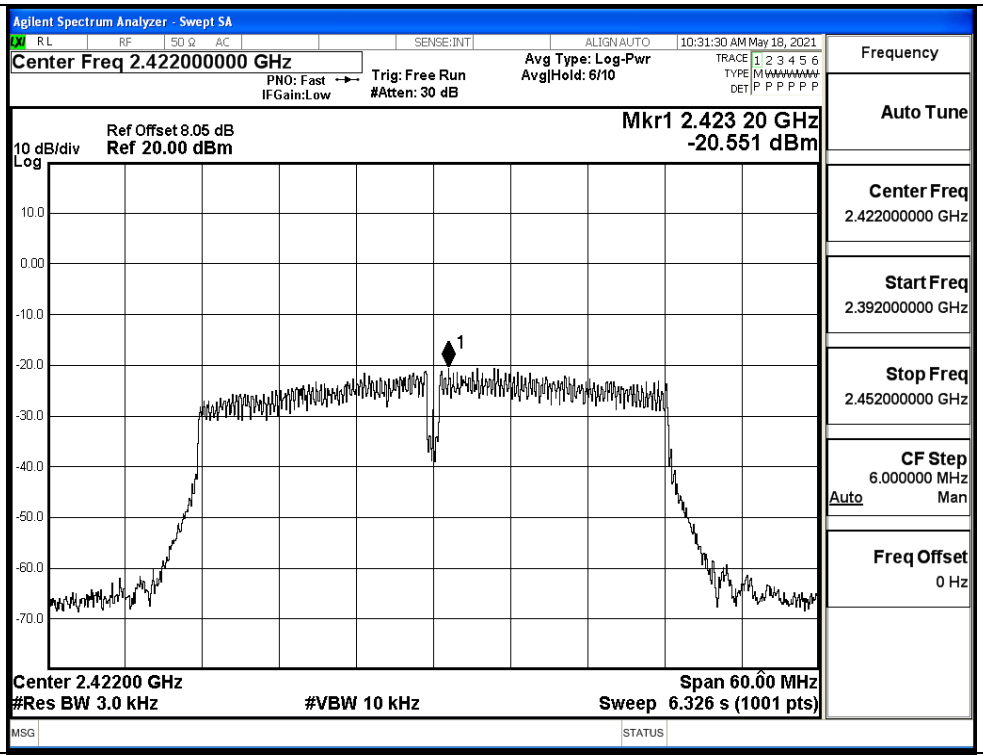
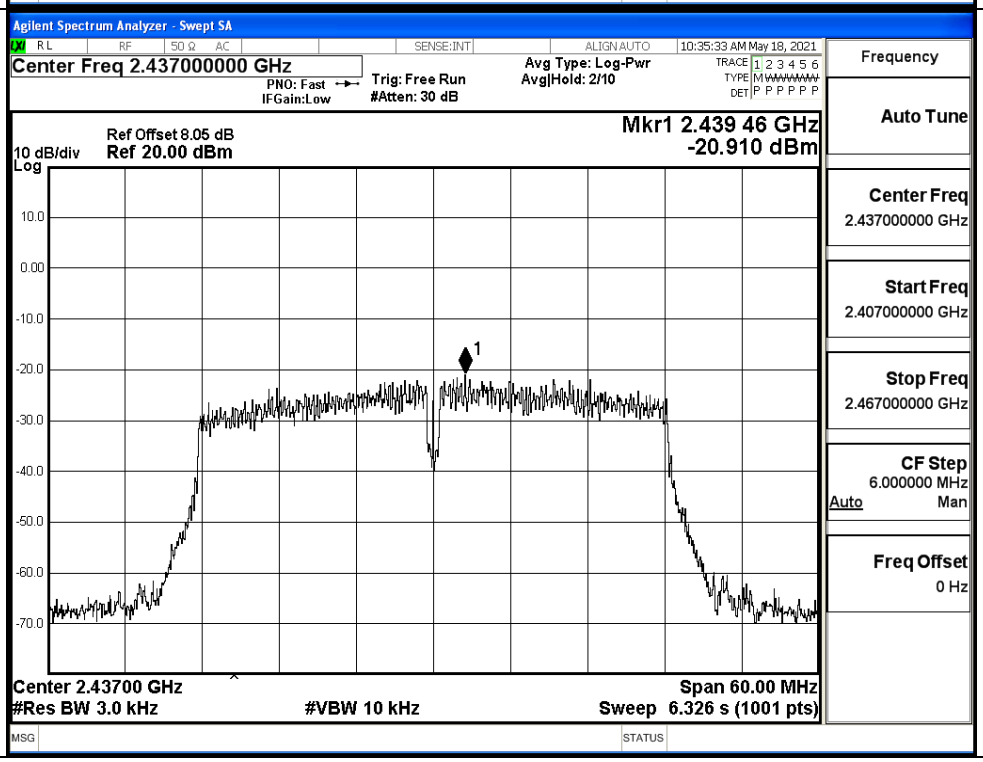
Test Graphs		
11B/LCH		

11B/MCH		
11B/HCH		

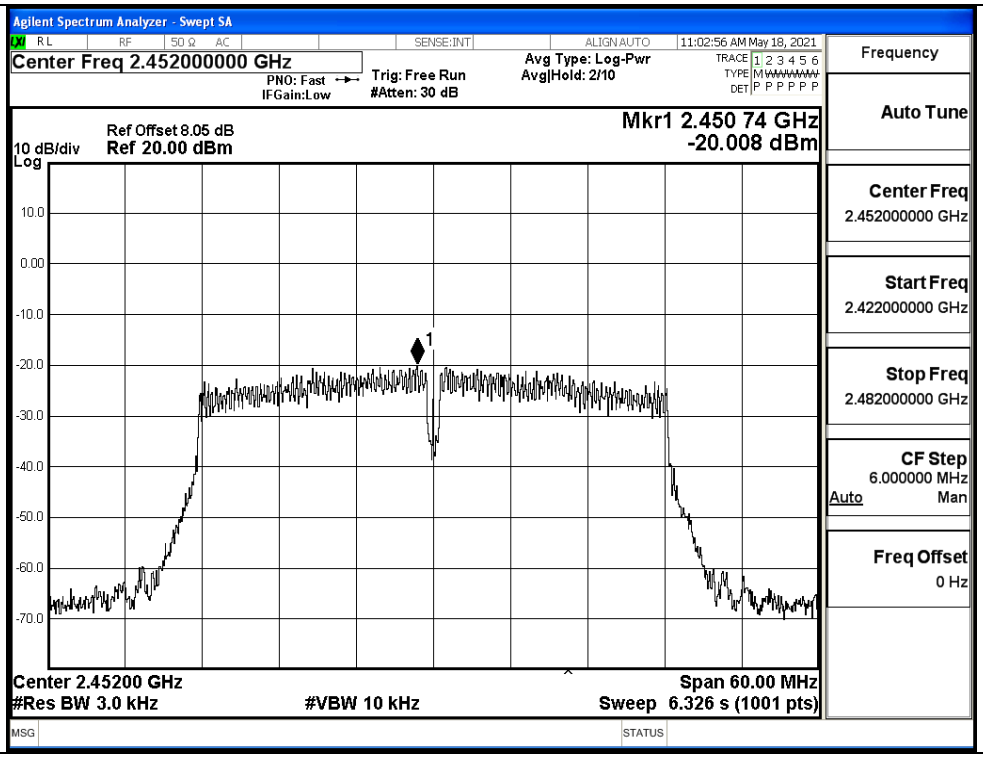
11G/LCH		
11G/MCH		

11G/HCH		
11N20SISO/LCH		

11N20SISO/MCH		
11N20SISO/HCH		

11N40SISO/LCH		
11N40SISO/MCH		

11N40SISO/HCH



MIMO

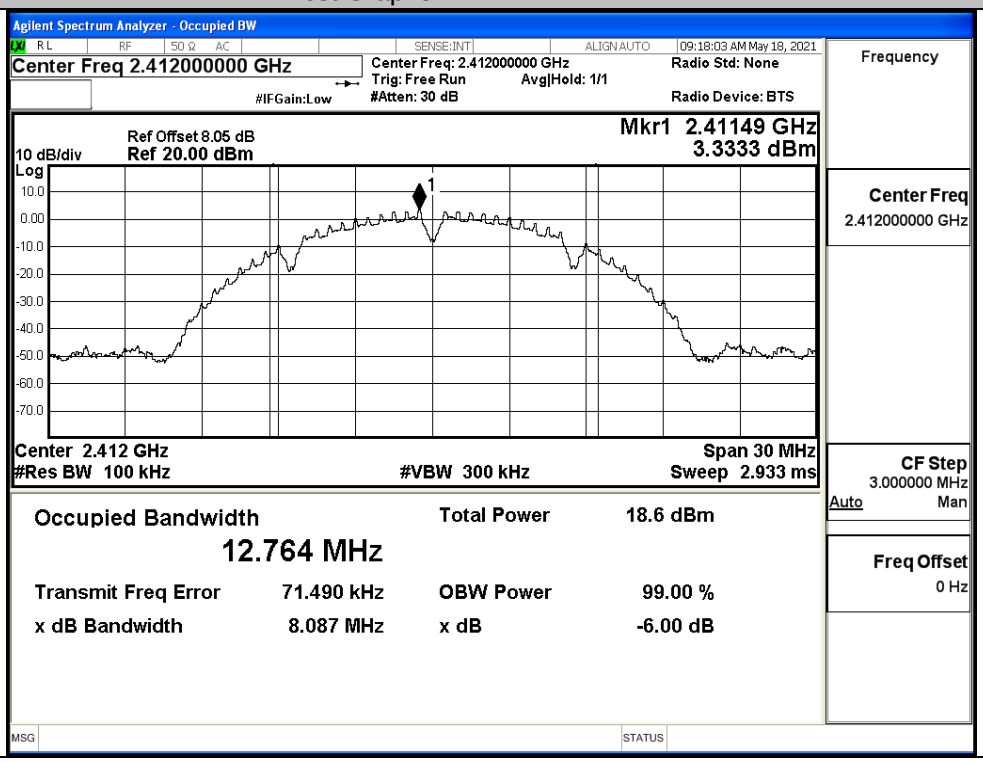
Mode	Channel	ANT 0 [dBm/3KHz]	ANT 1 [dBm/3KHz]	MIMO [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11N20	LCH	-17.707	-19.370	-15.45	7.99	PASS
	MCH	-18.244	-19.387	-15.77	7.99	PASS
	HCH	-18.725	-19.571	-16.12	7.99	PASS
11N40	LCH	-21.165	-20.551	-17.84	7.99	PASS
	MCH	-21.118	-20.910	-18.00	7.99	PASS
	HCH	-21.205	-20.008	-17.56	7.99	PASS

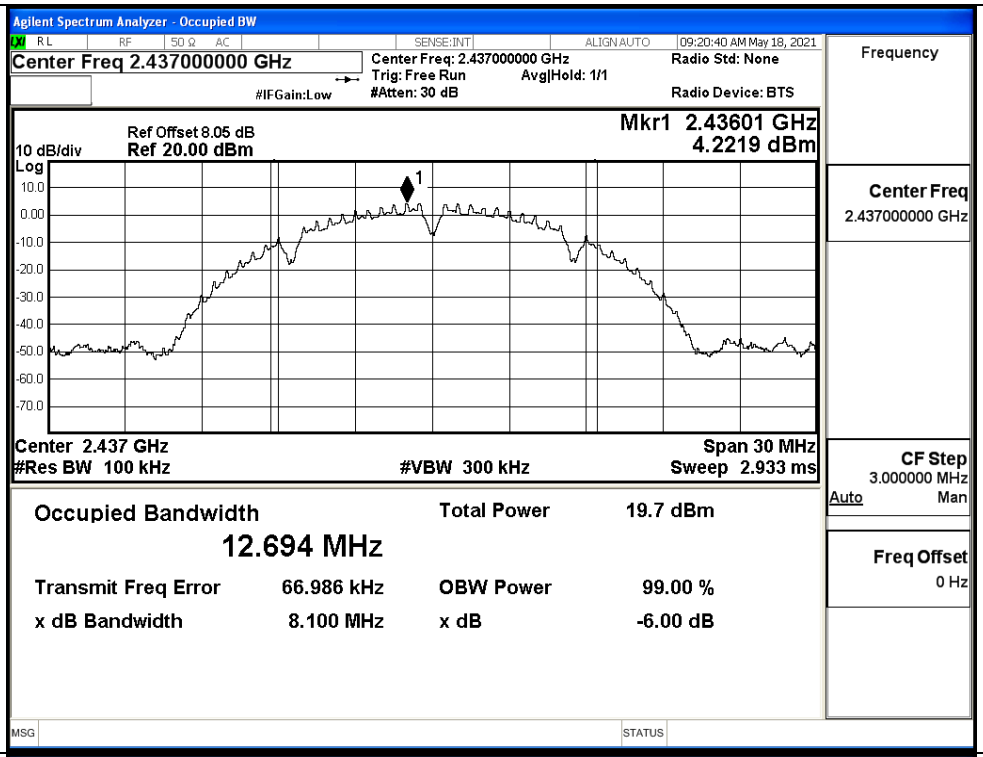
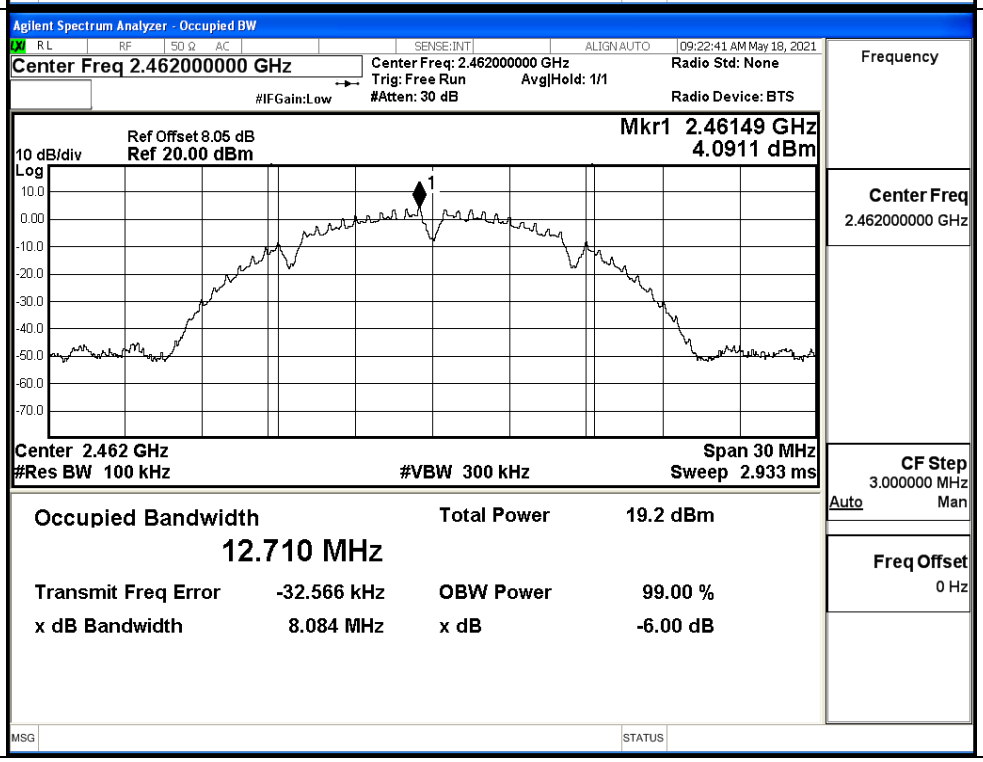
Directional gain=3dBi+10 log (2) = 6.01dBi > 6dBi, So the power density limit shall be reduced to 8-(6.01-6) = 7.99

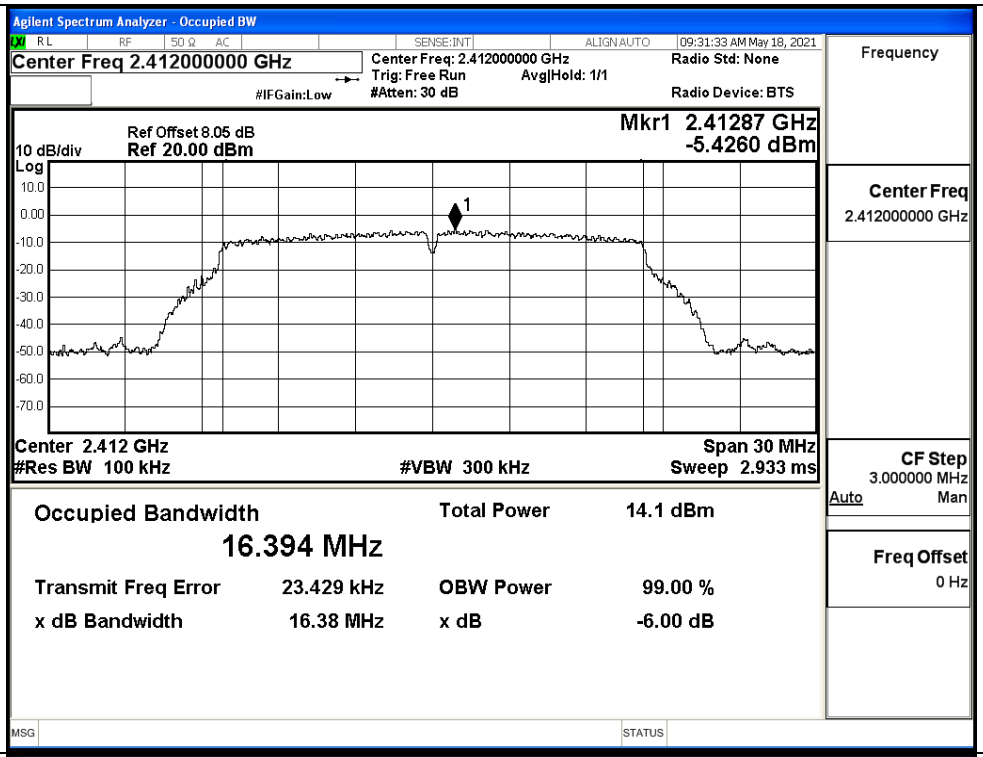
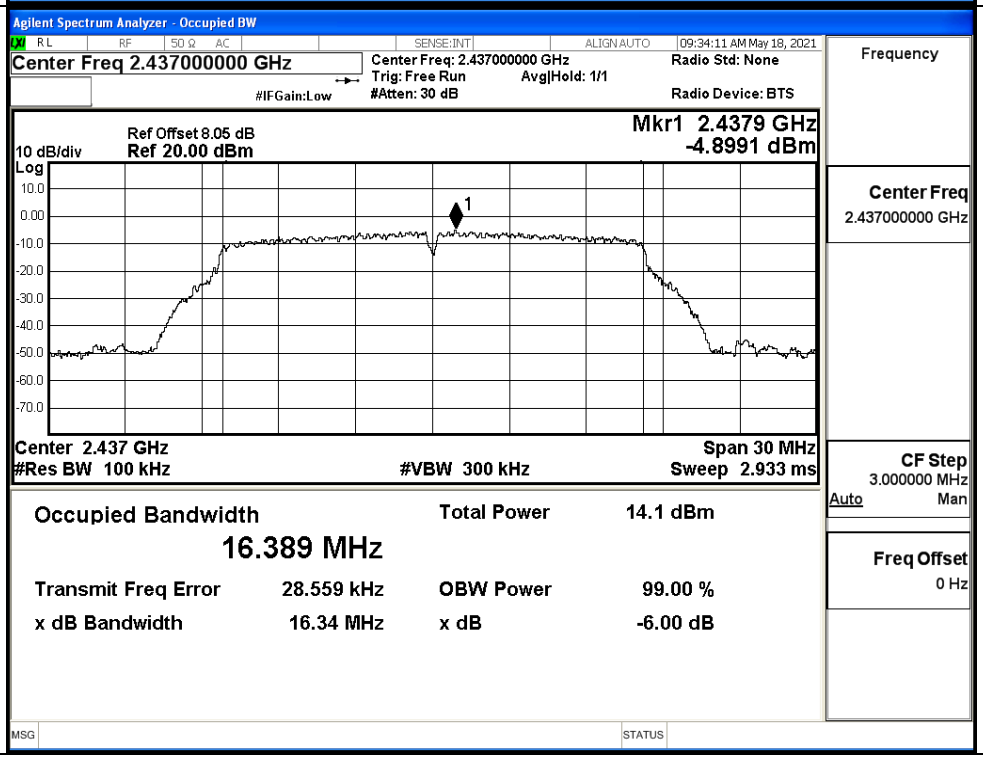
C.4 6dB Bandwidth

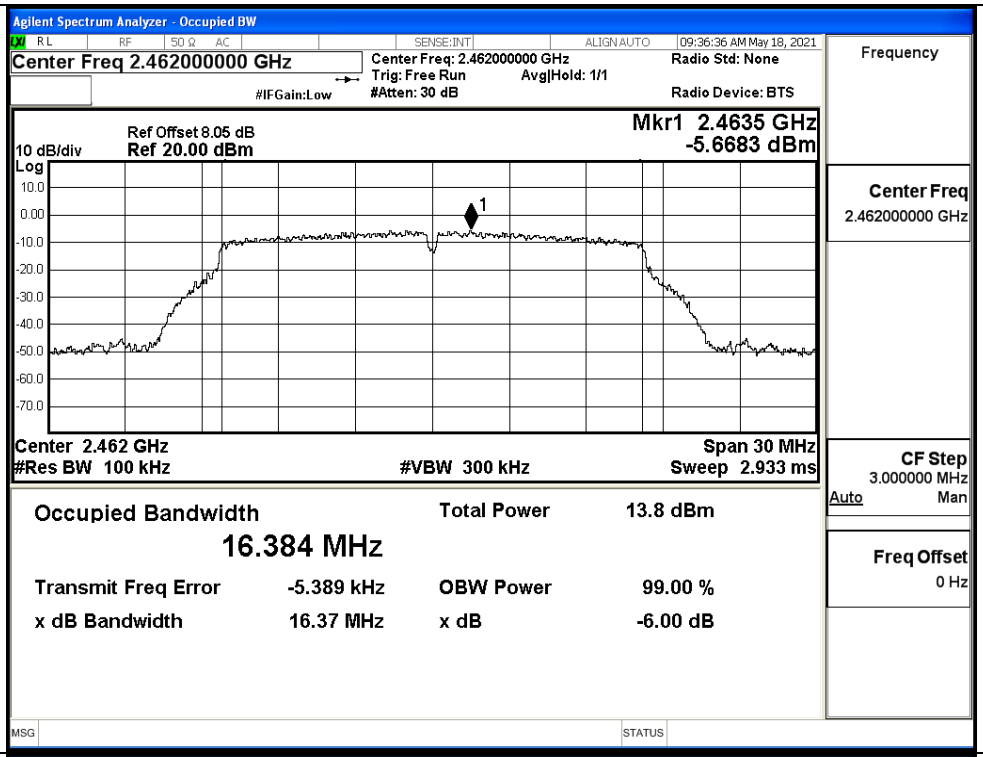
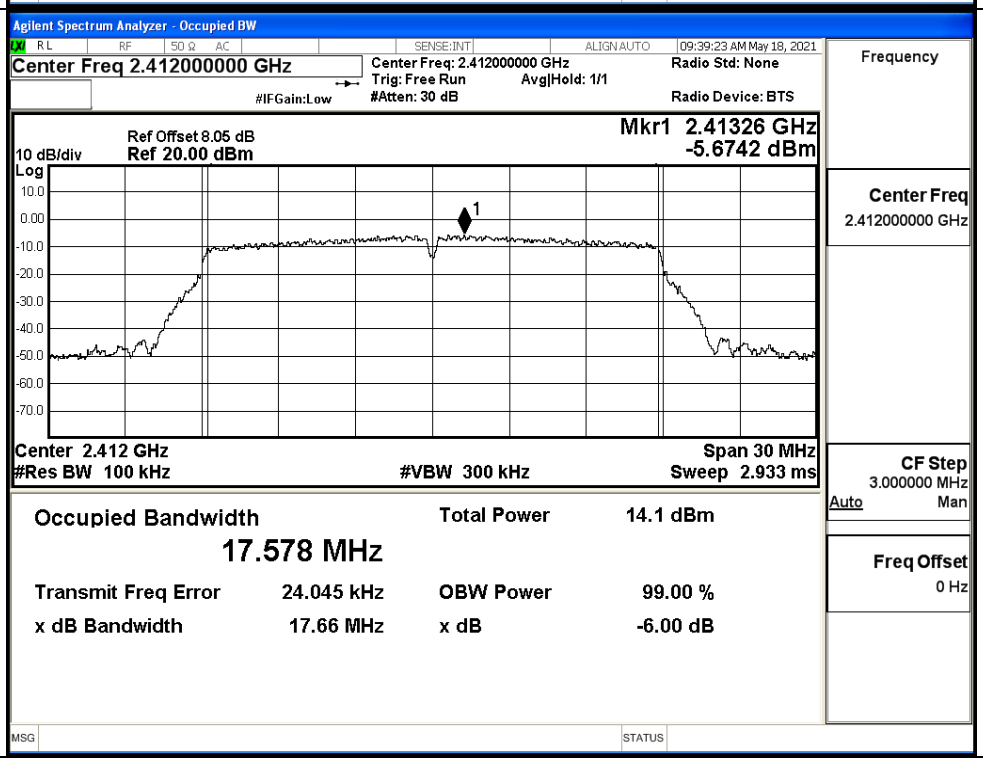
ANT0

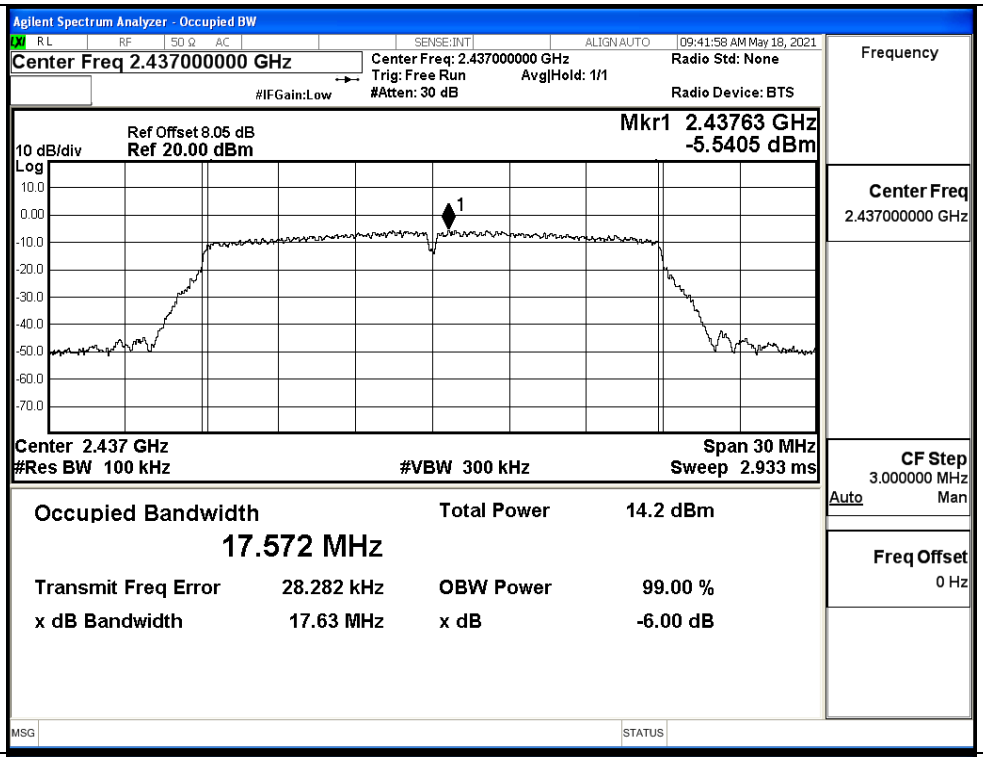
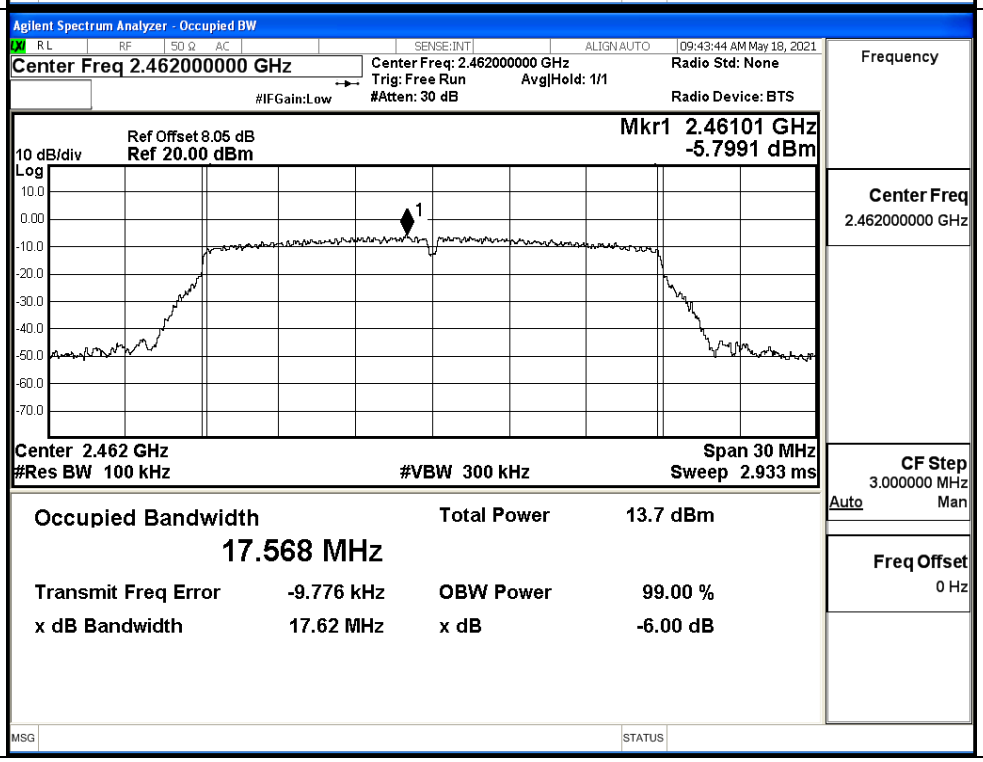
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	8.087	⩾0.5	PASS
	MCH	8.100	⩾0.5	PASS
	HCH	8.084	⩾0.5	PASS
11G	LCH	16.38	⩾0.5	PASS
	MCH	16.34	⩾0.5	PASS
	HCH	16.37	⩾0.5	PASS
11N20SISO	LCH	17.66	⩾0.5	PASS
	MCH	17.63	⩾0.5	PASS
	HCH	17.62	⩾0.5	PASS
11N40SISO	LCH	35.54	⩾0.5	PASS
	MCH	35.47	⩾0.5	PASS
	HCH	34.85	⩾0.5	PASS

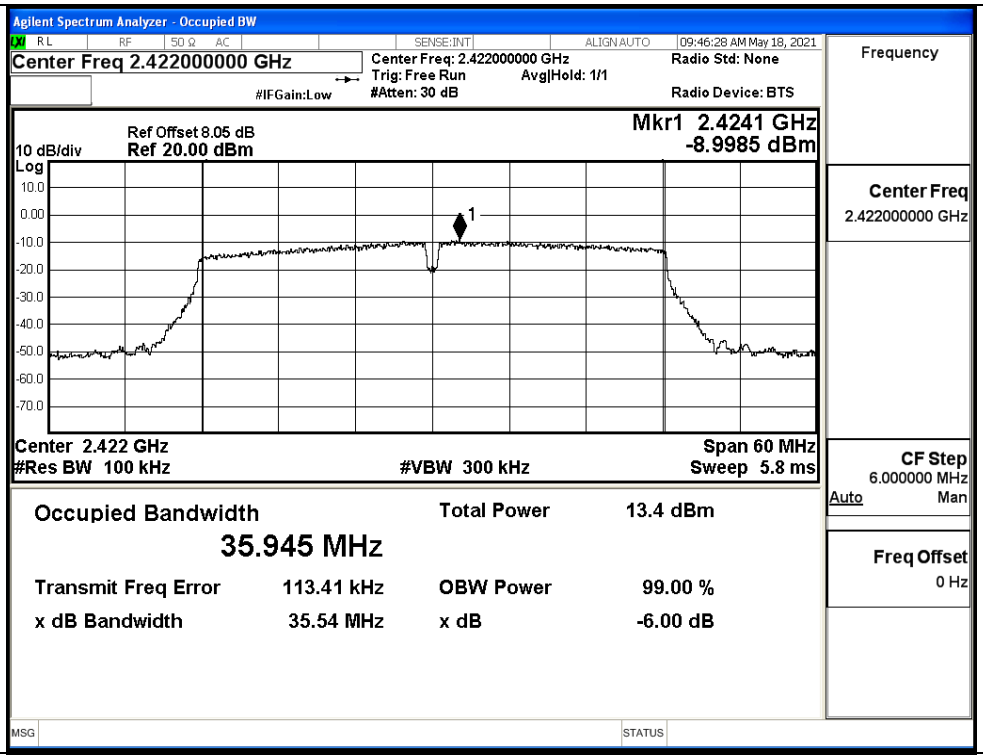
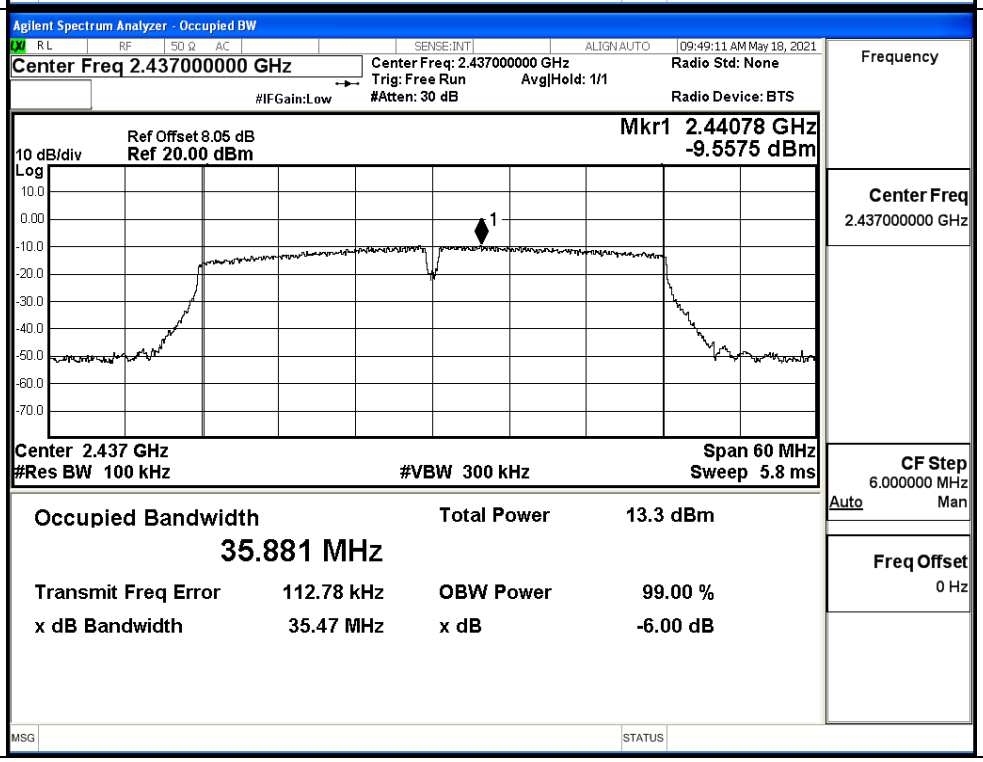
Test Graphs	
11B/LCH	

11B/MCH		
11B/HCH		

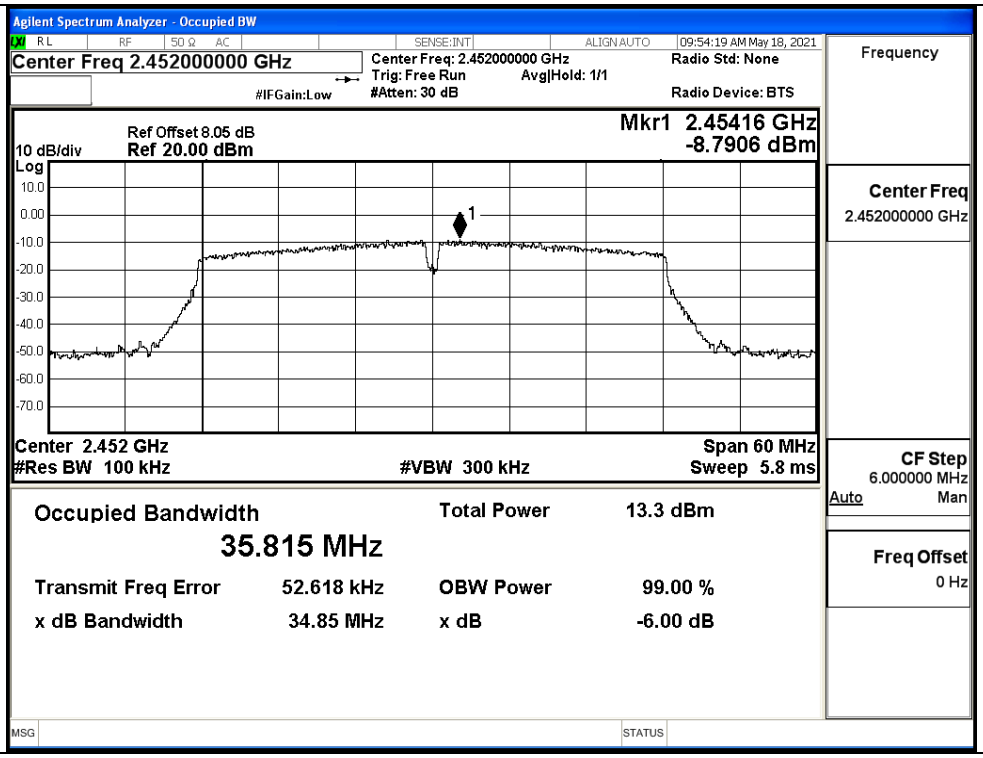
11G/LCH		
11G/MCH		

11G/HCH		
11N20SISO/LCH		

11N20SISO/MCH		
11N20SISO/HCH		

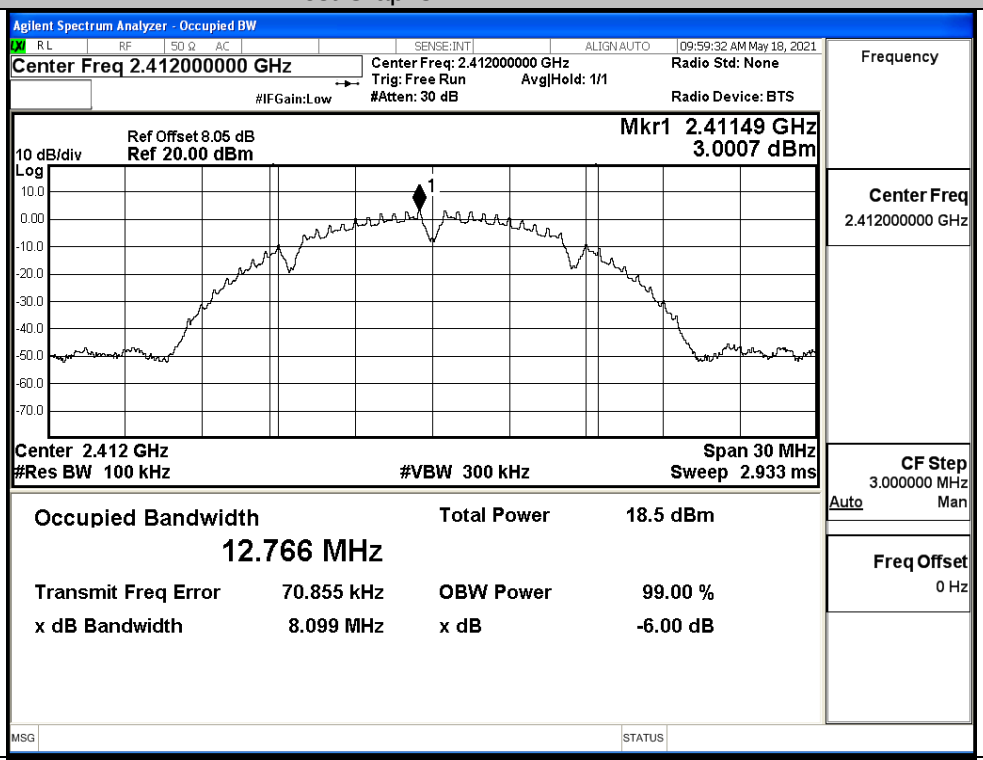
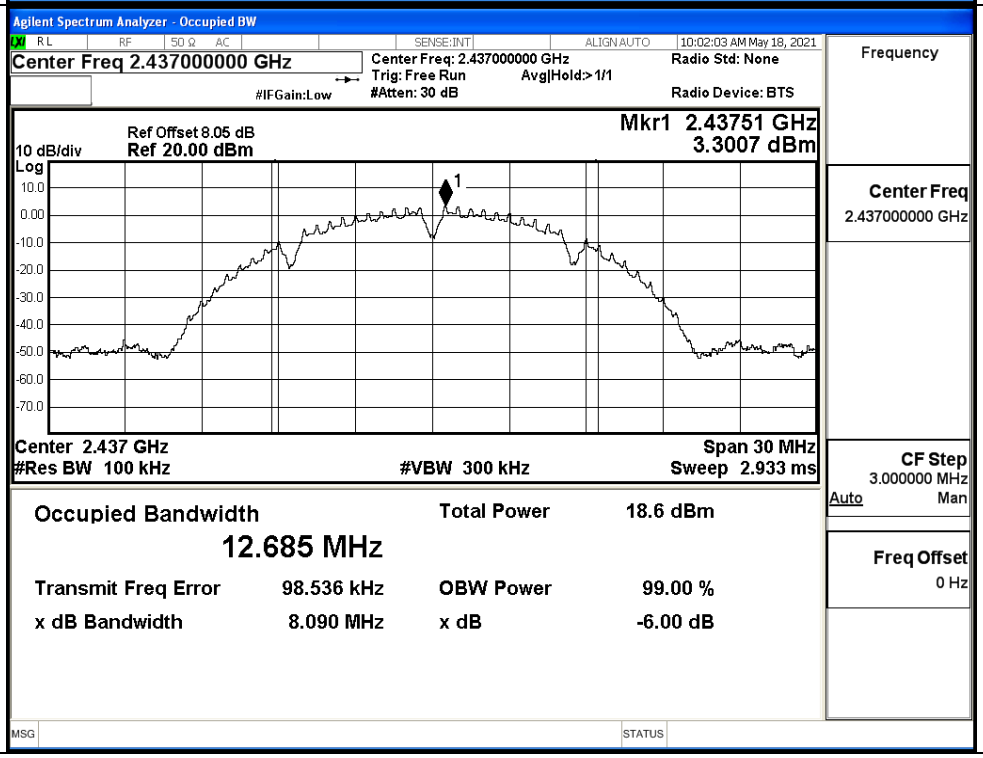
11N40SISO/LCH		
11N40SISO/MCH		

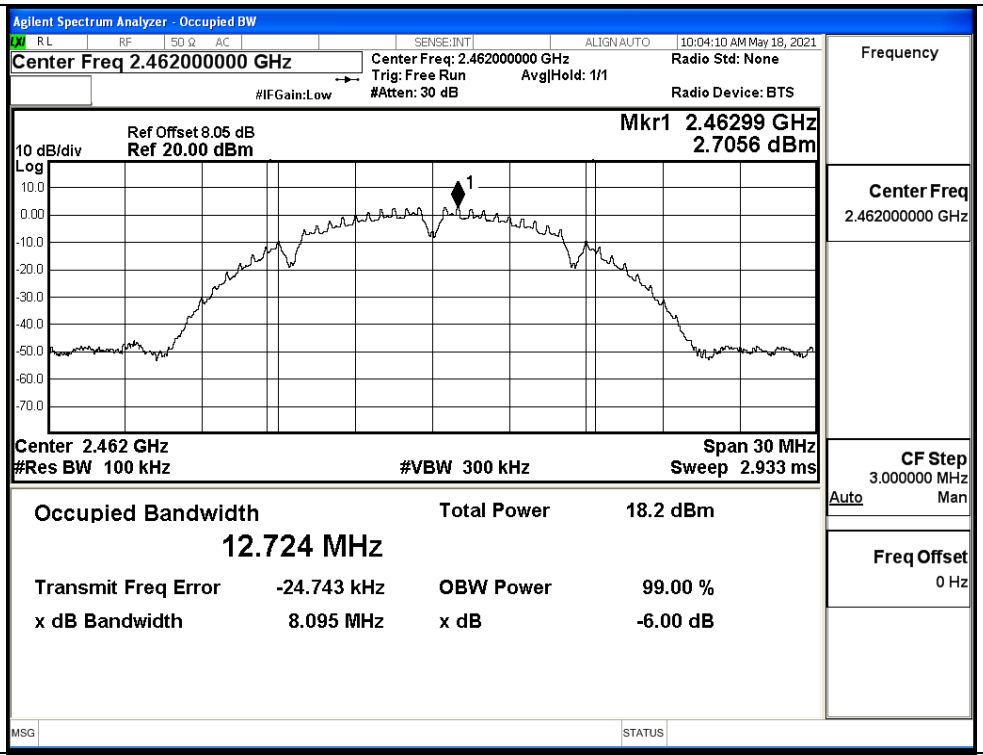
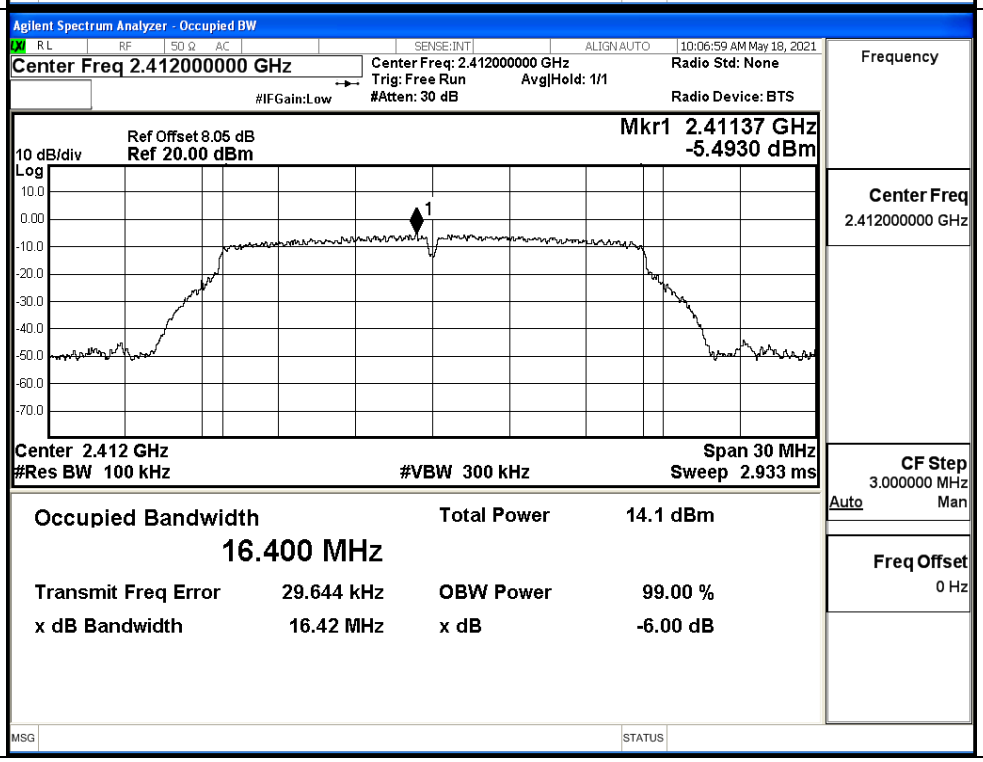
11N40SISO/HCH

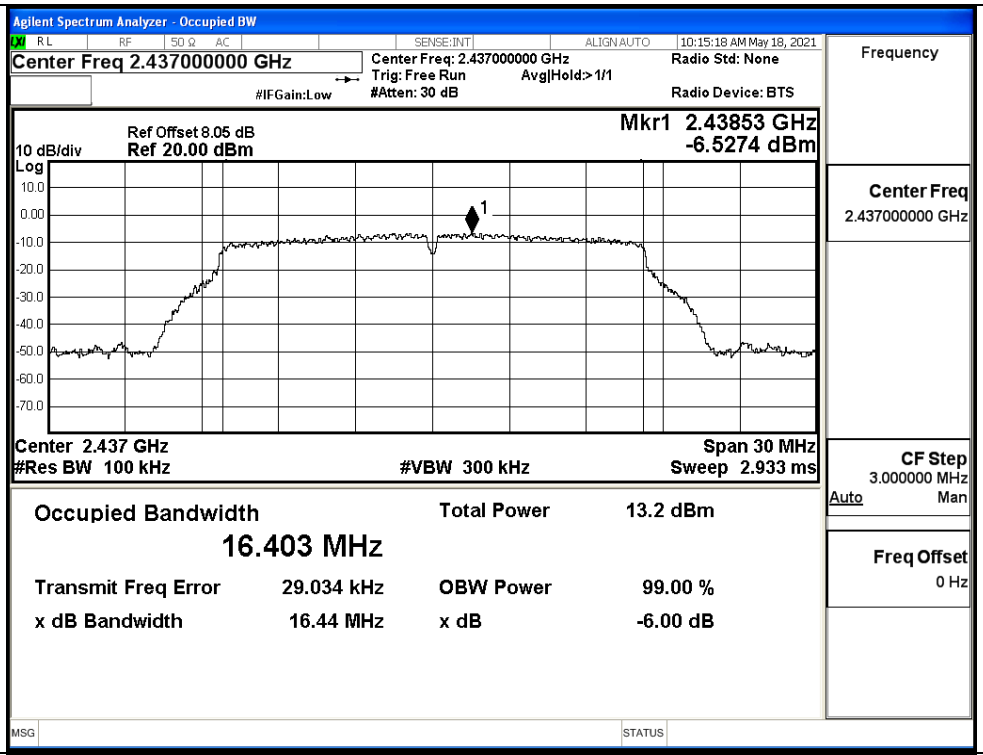
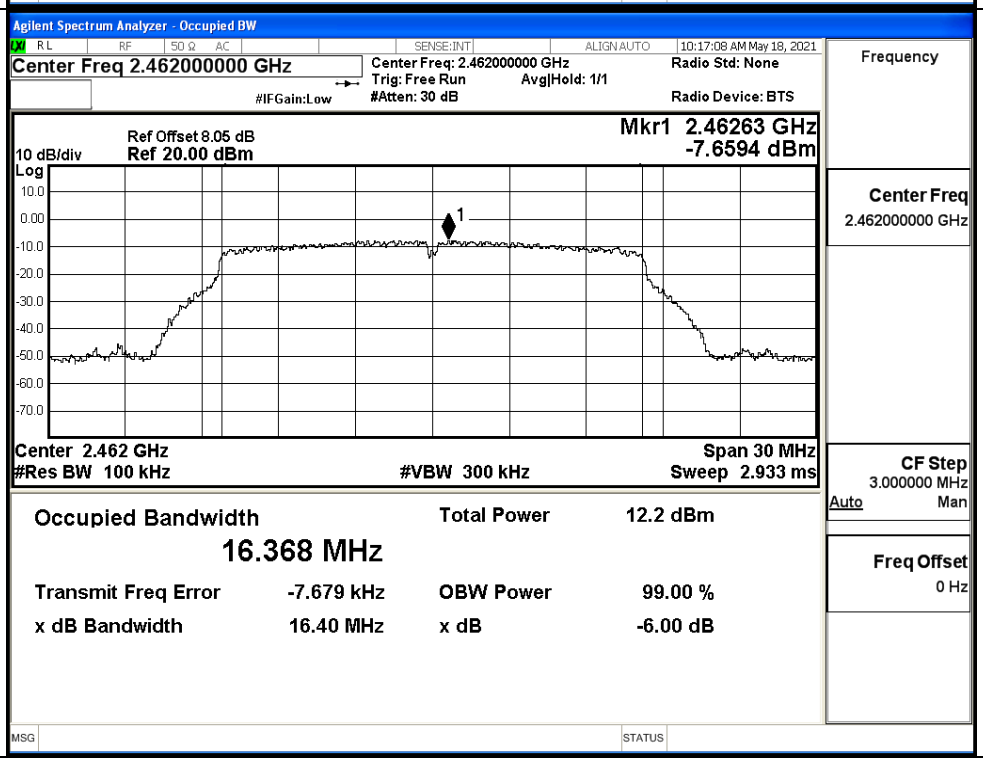


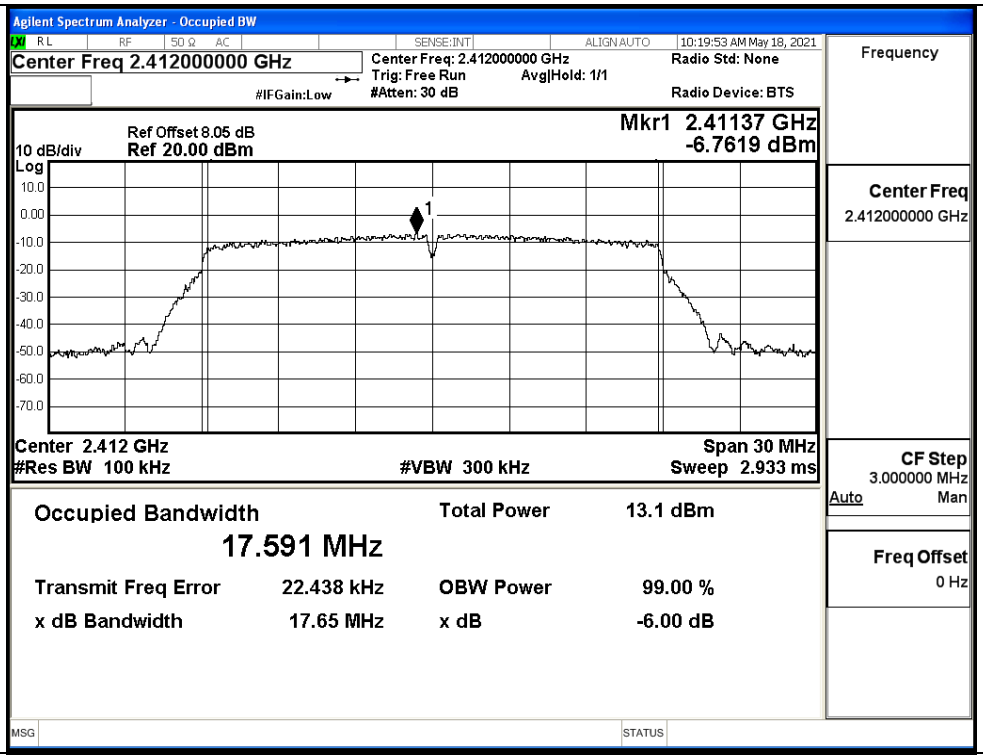
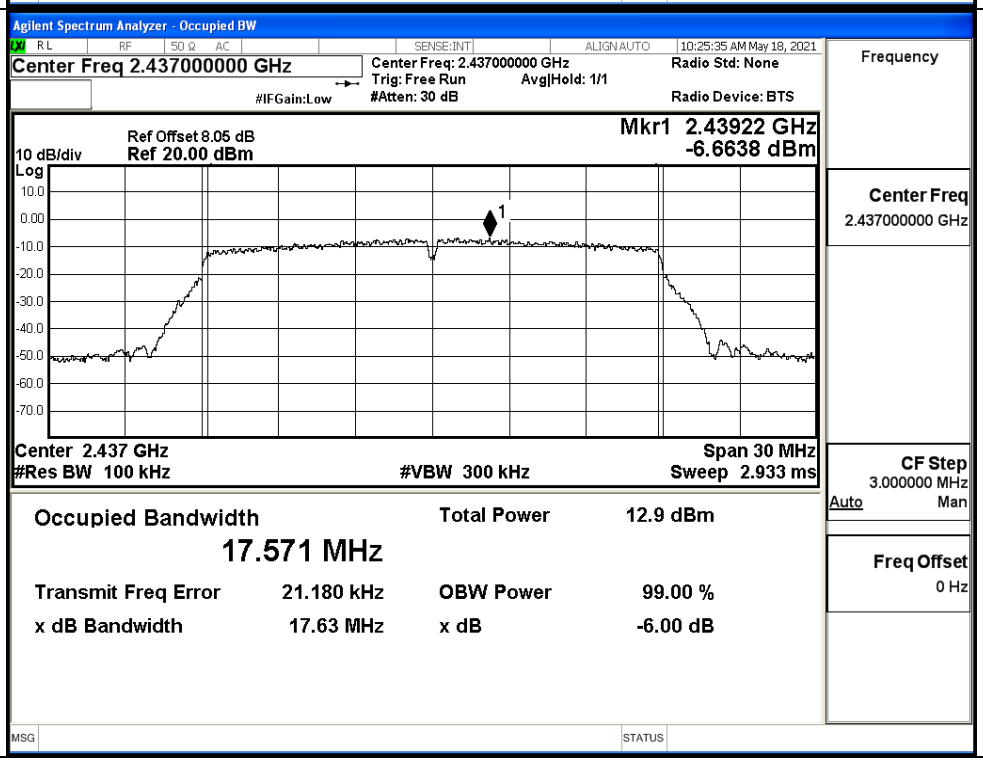
ANT1

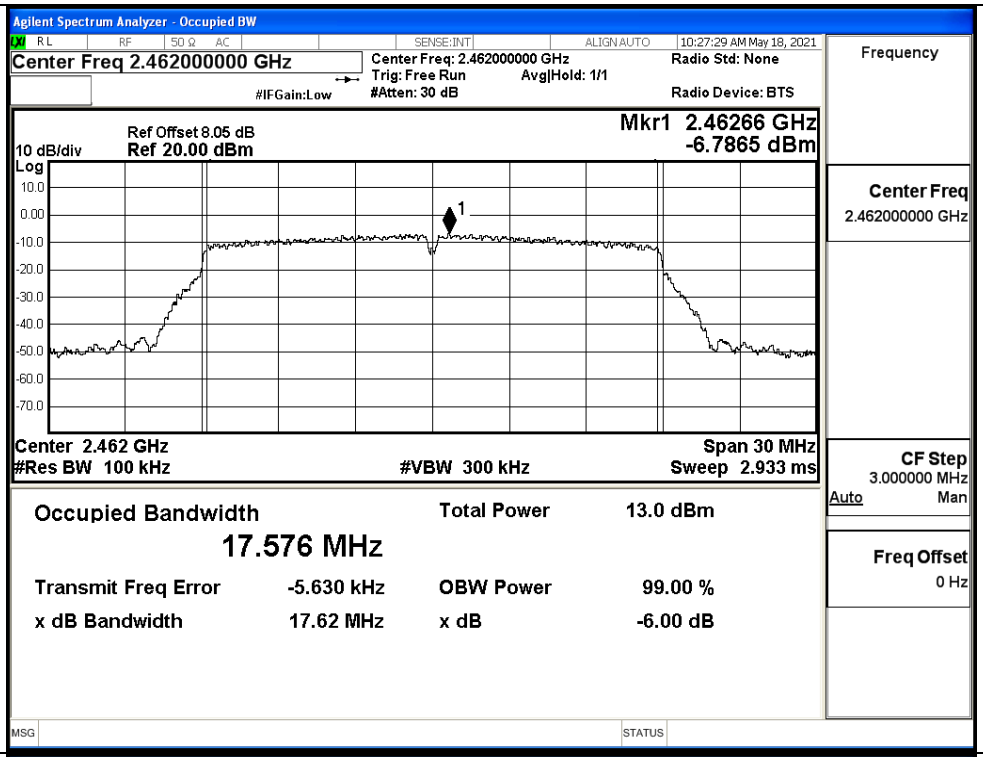
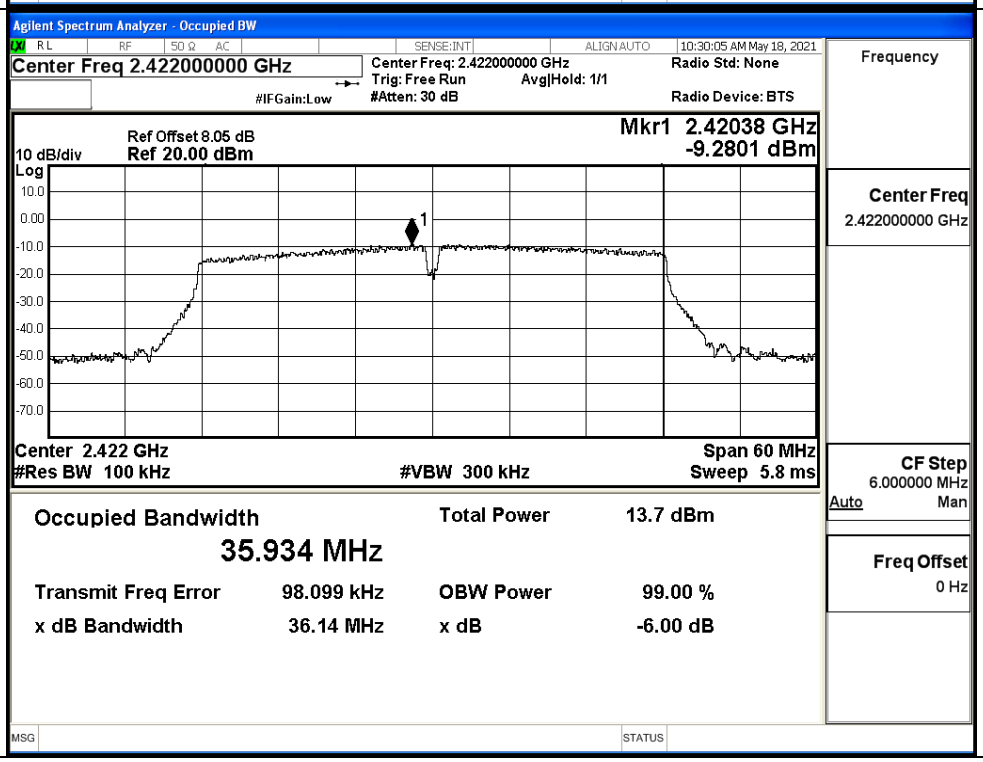
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	8.099	⩾0.5	PASS
	MCH	8.090	⩾0.5	PASS
	HCH	8.095	⩾0.5	PASS
11G	LCH	16.42	⩾0.5	PASS
	MCH	16.44	⩾0.5	PASS
	HCH	16.40	⩾0.5	PASS
11N20SISO	LCH	17.65	⩾0.5	PASS
	MCH	17.63	⩾0.5	PASS
	HCH	17.62	⩾0.5	PASS
11N40SISO	LCH	36.14	⩾0.5	PASS
	MCH	36.16	⩾0.5	PASS
	HCH	36.30	⩾0.5	PASS

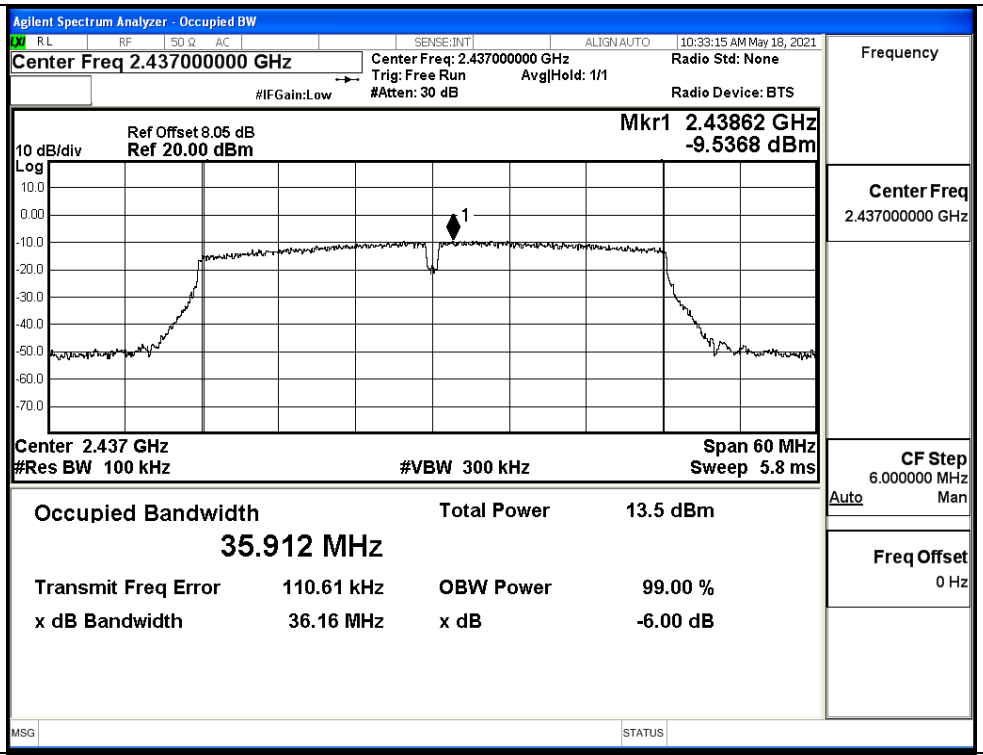
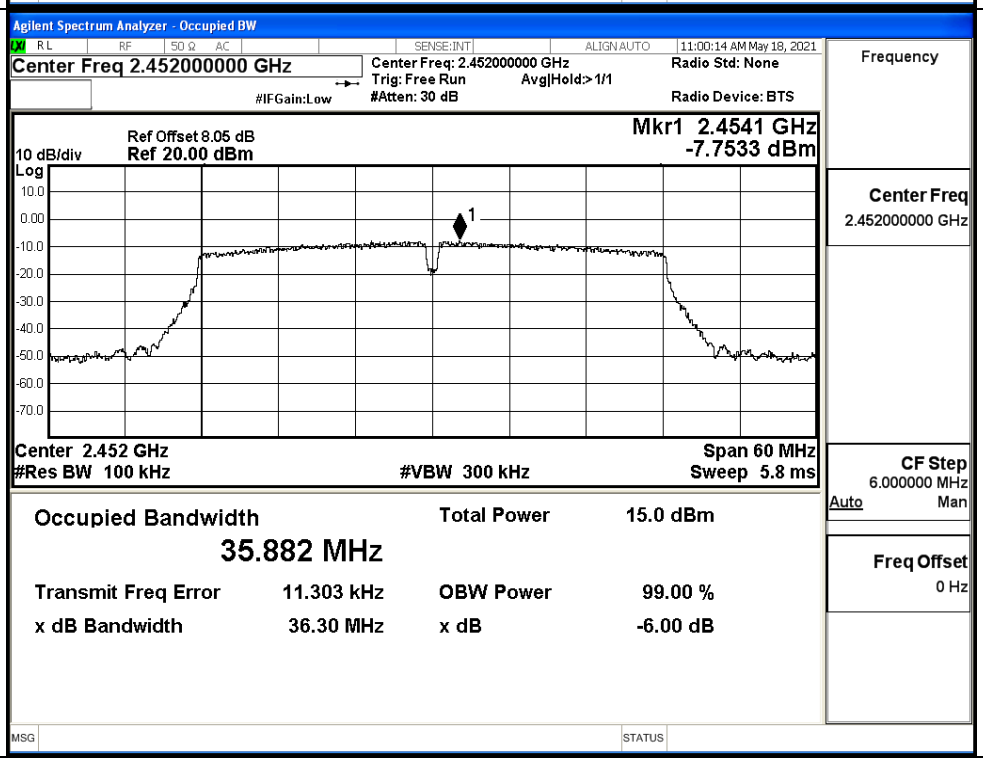
Test Graphs		
11B/LCH		
11B/MCH		

11B/HCH		
11G/LCH		

11G/MCH	
11G/HCH	

11N20SISO/LCH		
11N20SISO/MCH		

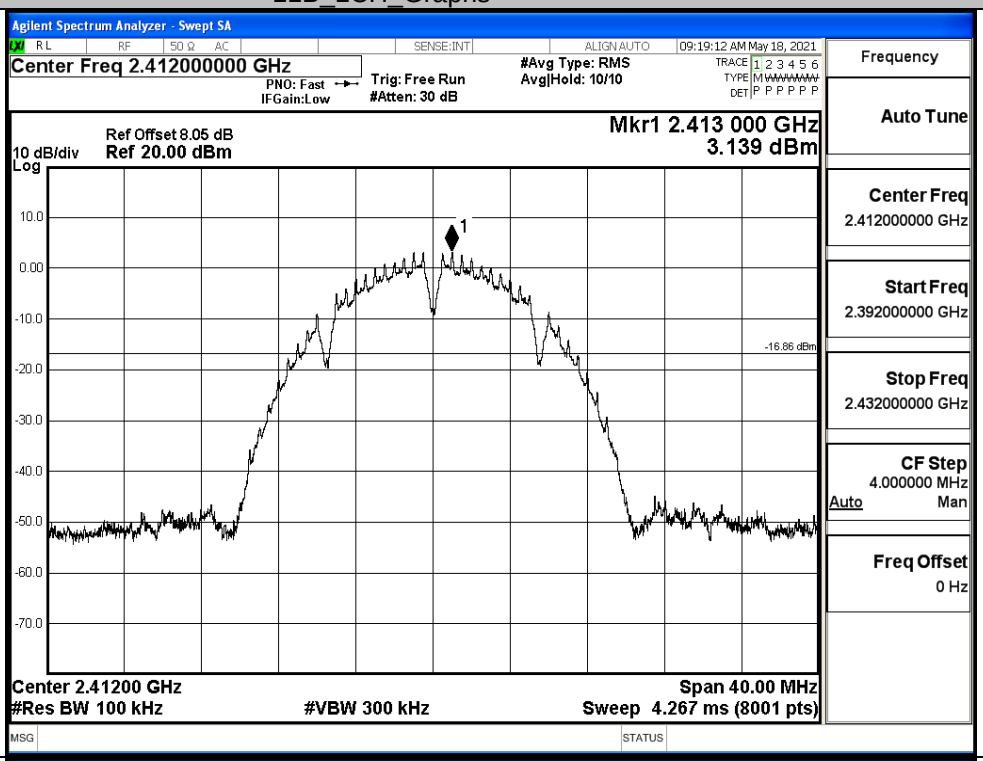
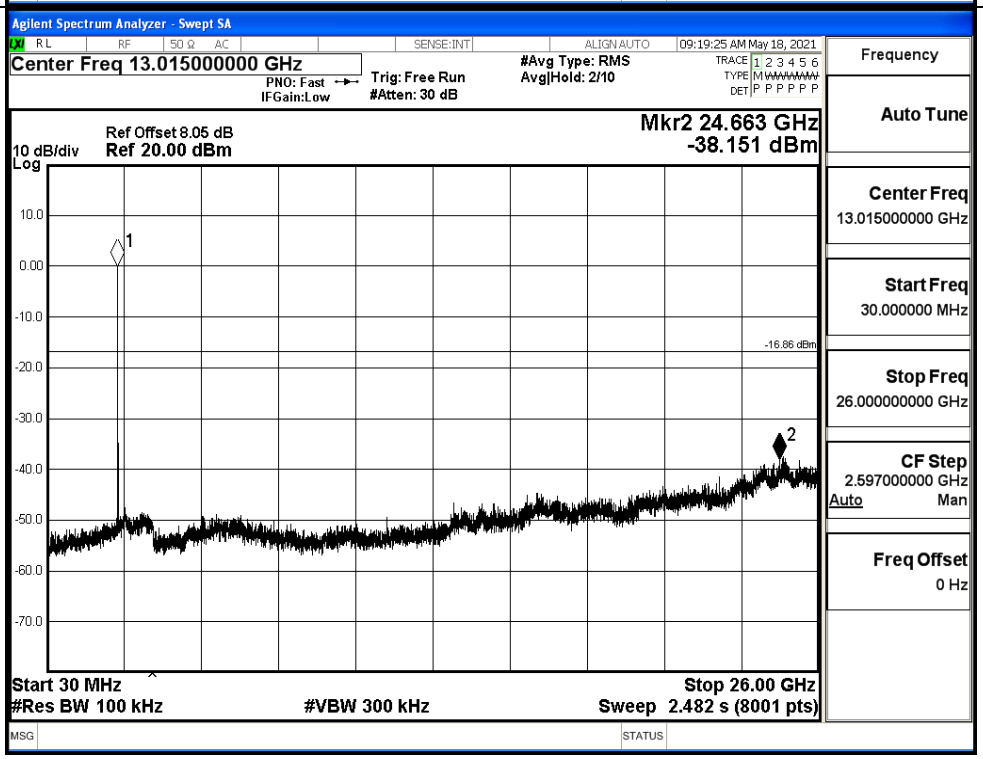
11N20SISO/HCH		
11N40SISO/LCH		

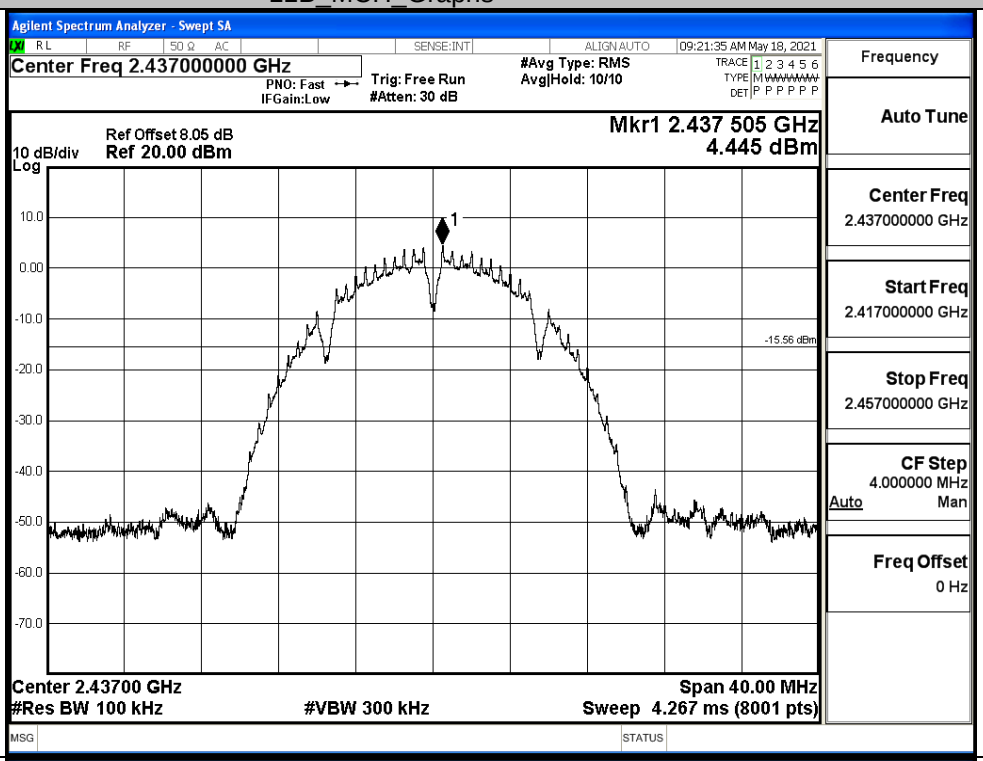
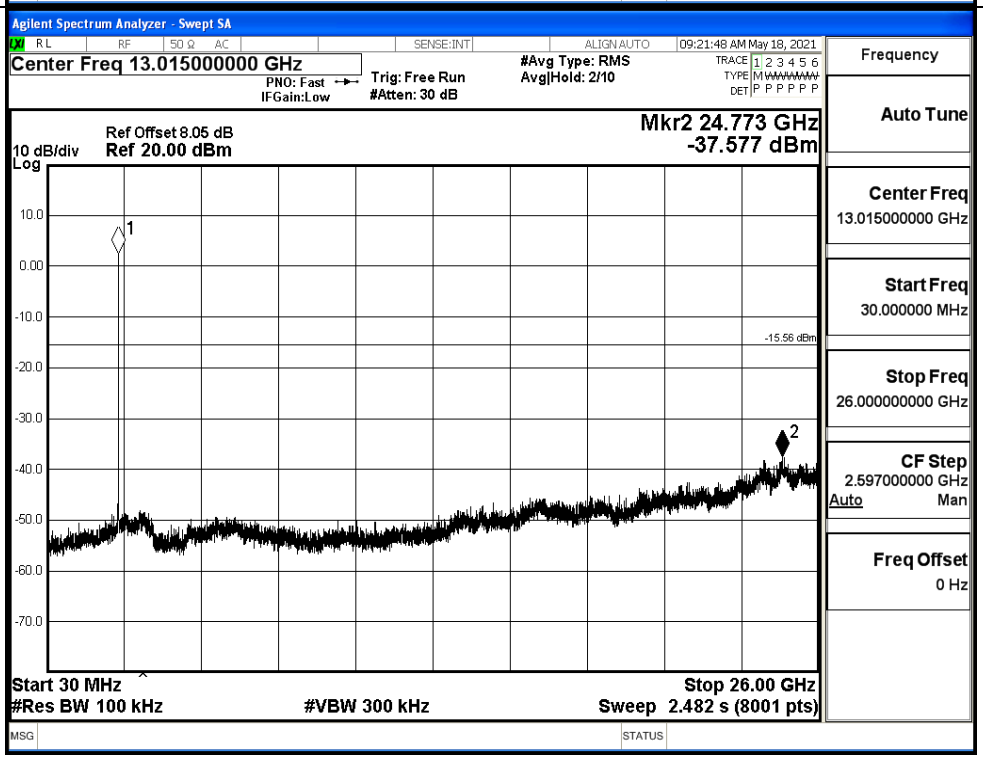
11N40SISO/MCH		
11N40SISO/HCH		

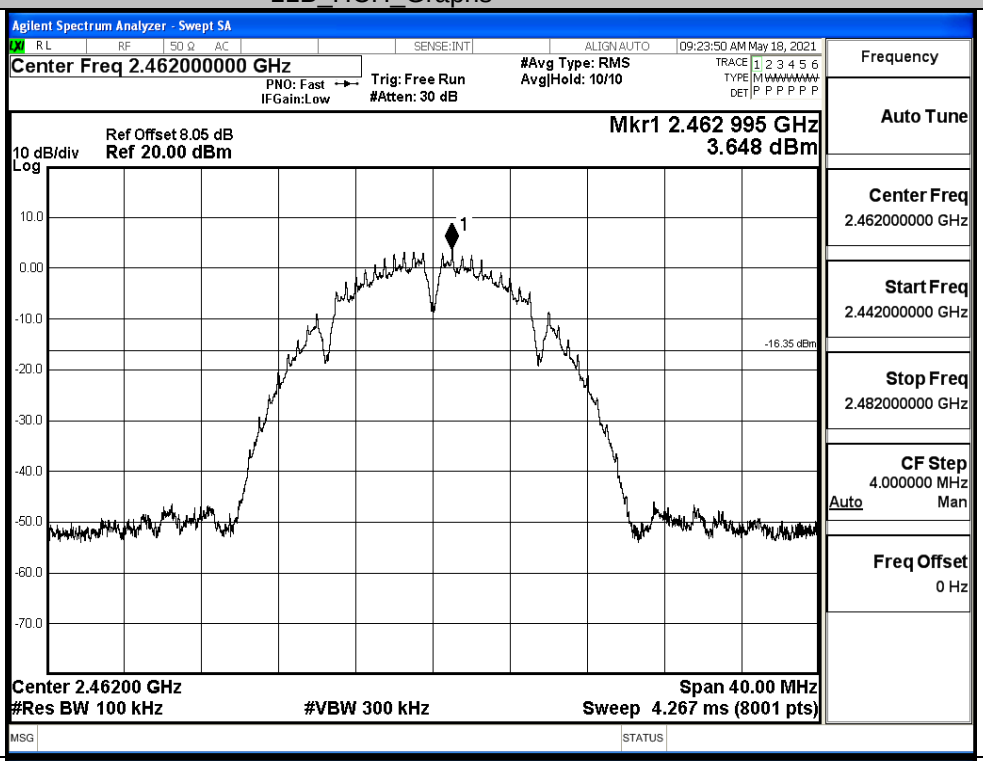
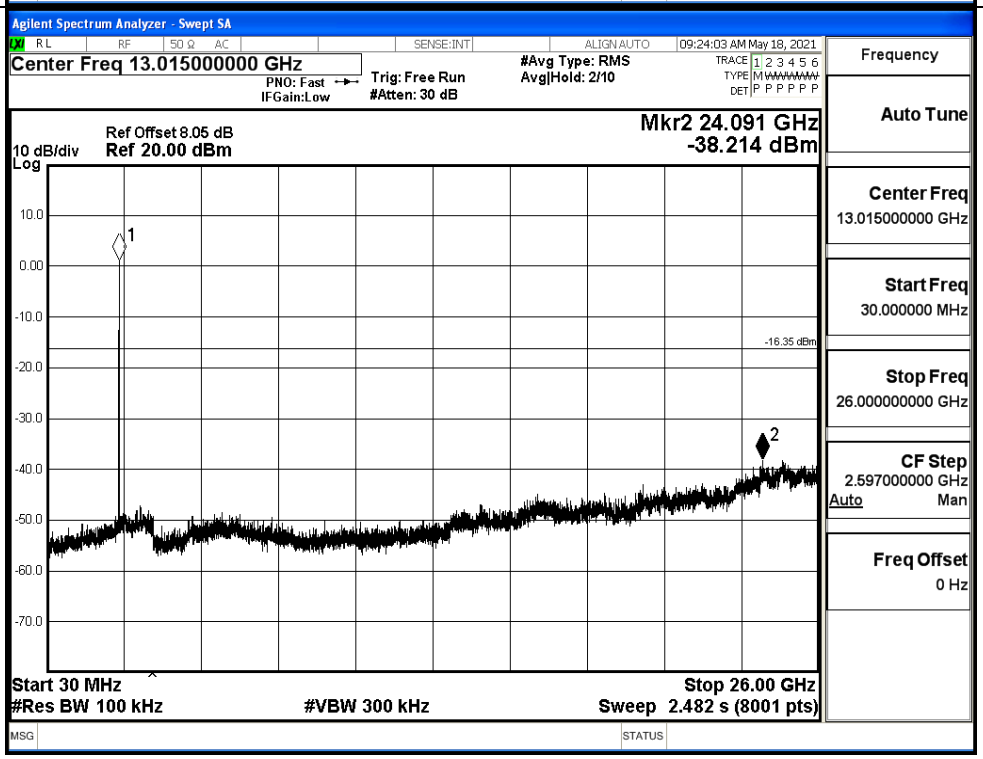
C.5 RF Conducted Spurious Emissions

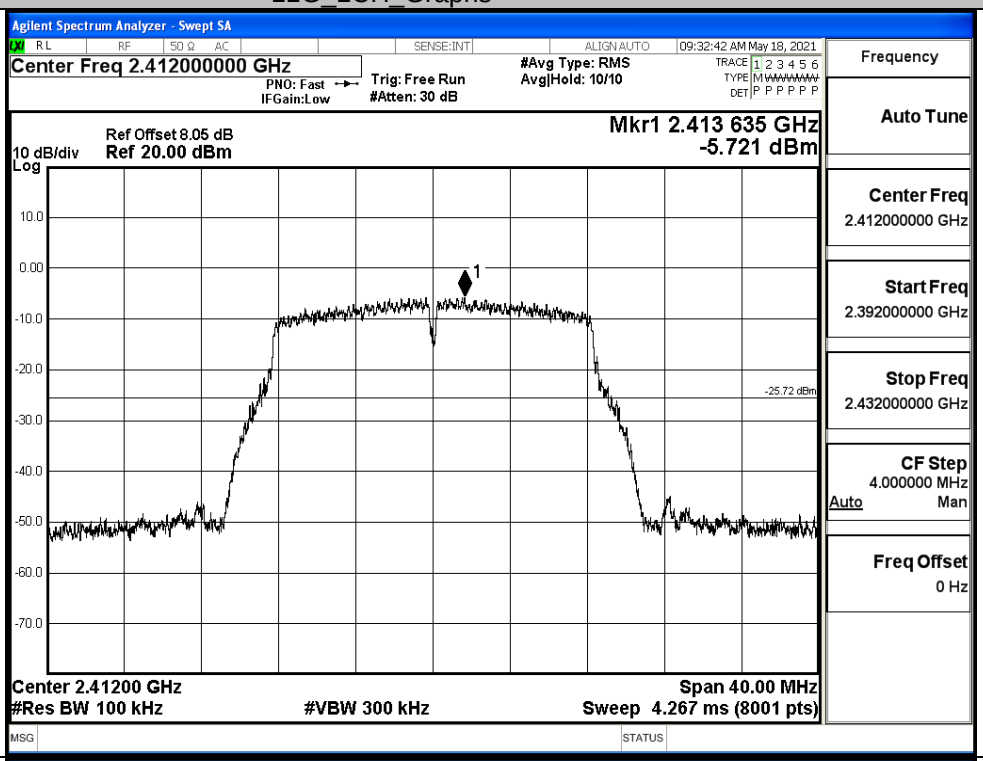
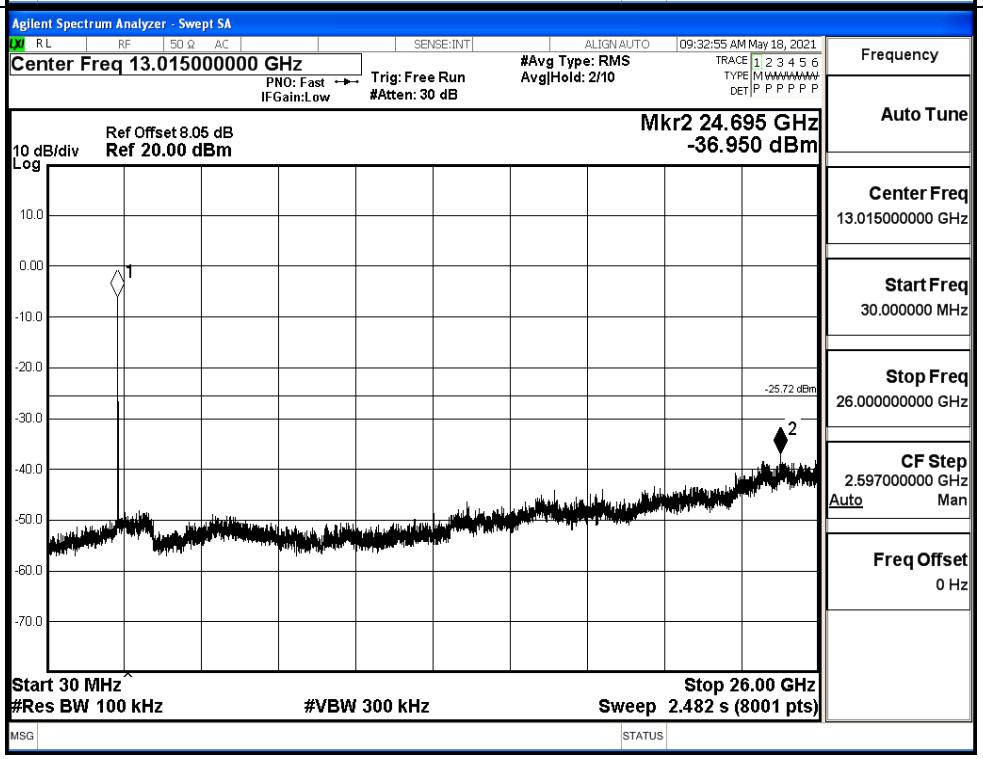
ANT0

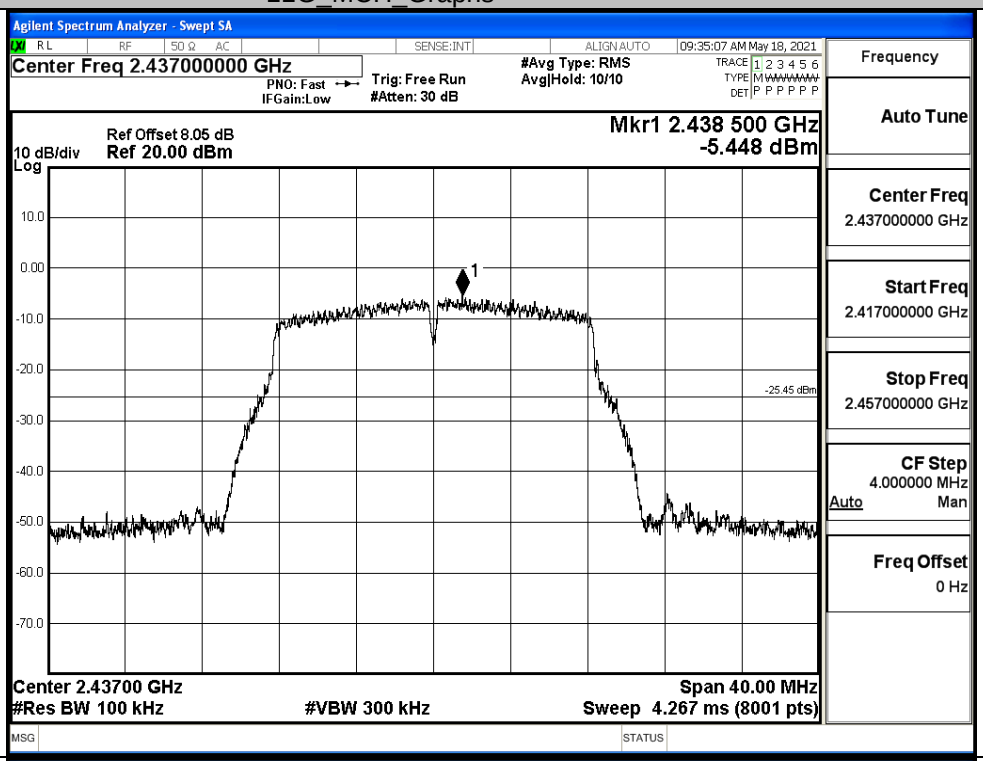
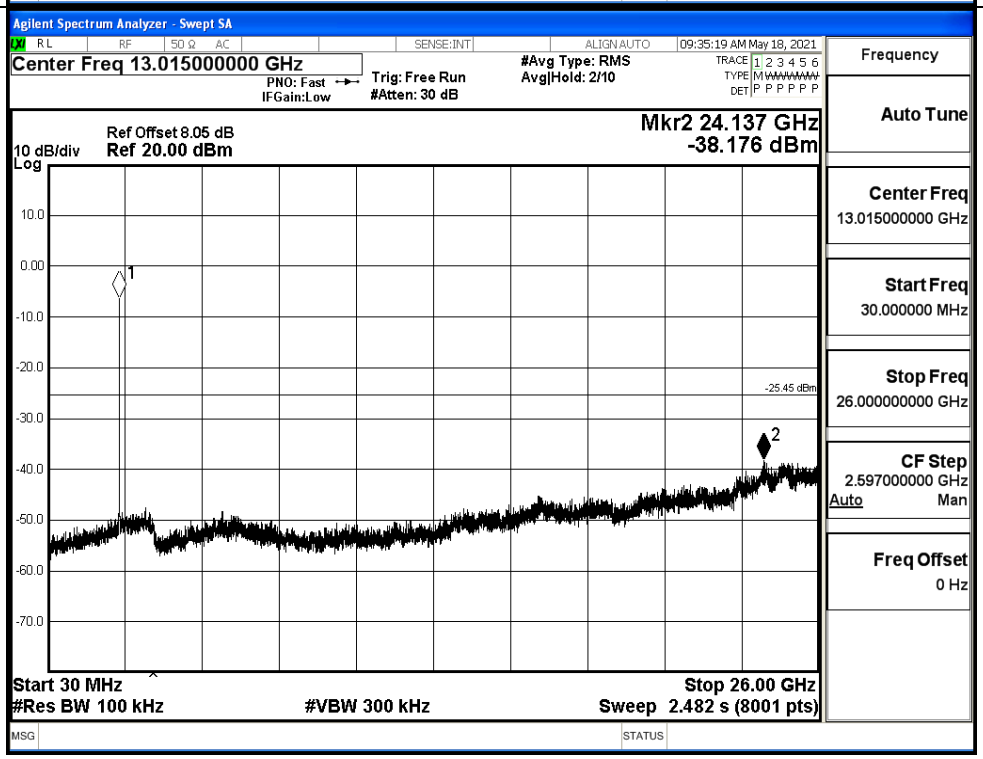
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	3.139	-38.151	-16.861	PASS
	MCH	4.445	-37.577	-15.555	PASS
	HCH	3.648	-38.214	-16.352	PASS
11G	LCH	-5.721	-36.950	-25.721	PASS
	MCH	-5.448	-38.176	-25.448	PASS
	HCH	-5.977	-37.950	-25.977	PASS
11N20 SISO	LCH	-5.957	-37.905	-25.957	PASS
	MCH	-5.809	-37.245	-25.809	PASS
	HCH	-6.102	-38.166	-26.102	PASS
11N40 SISO	LCH	-9.561	-37.658	-29.561	PASS
	MCH	-9.15	-38.343	-29.150	PASS
	HCH	-9.477	-38.214	-29.477	PASS

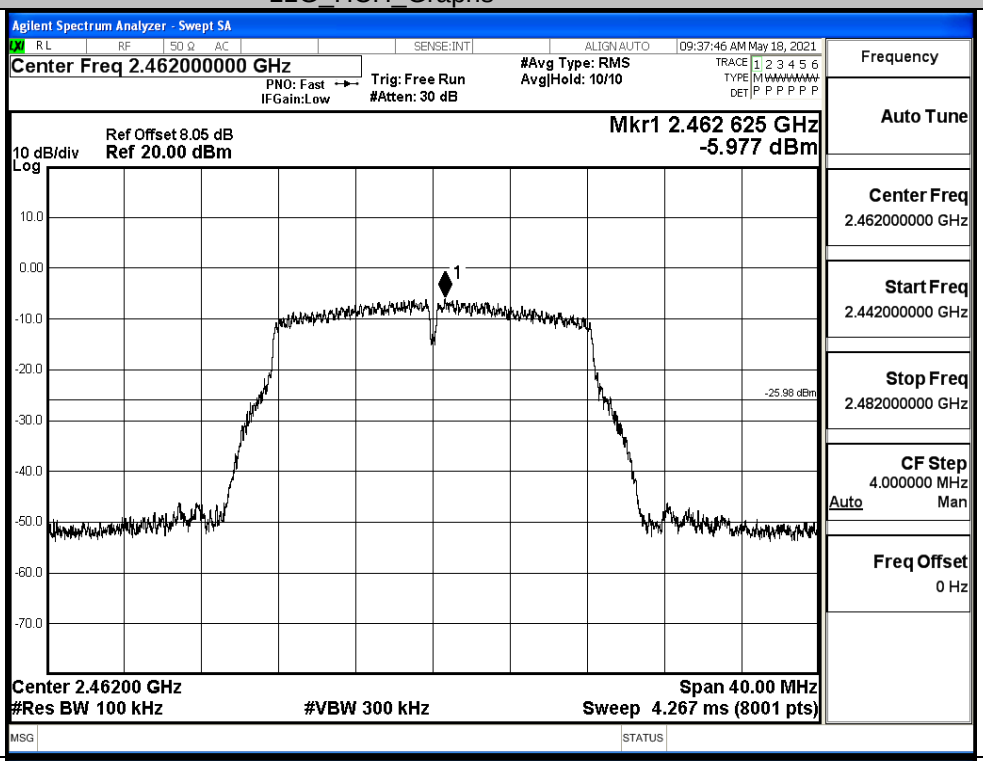
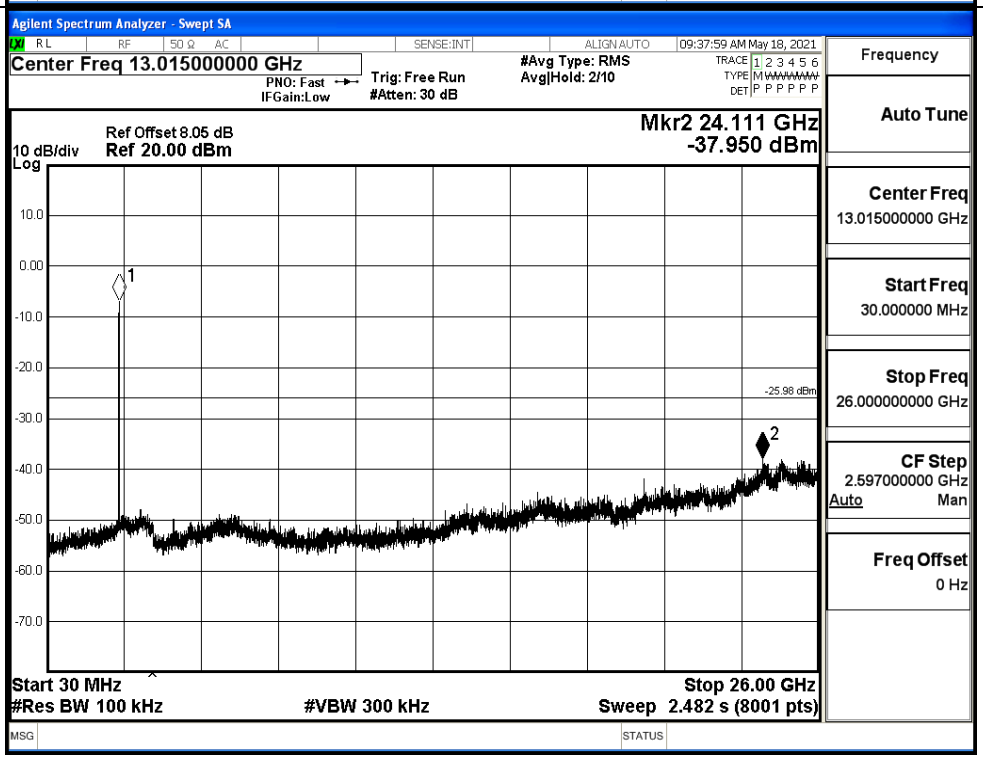
11B_LCH_Graphs		
Pref/11B/LCH		
Puw/11B/LCH		

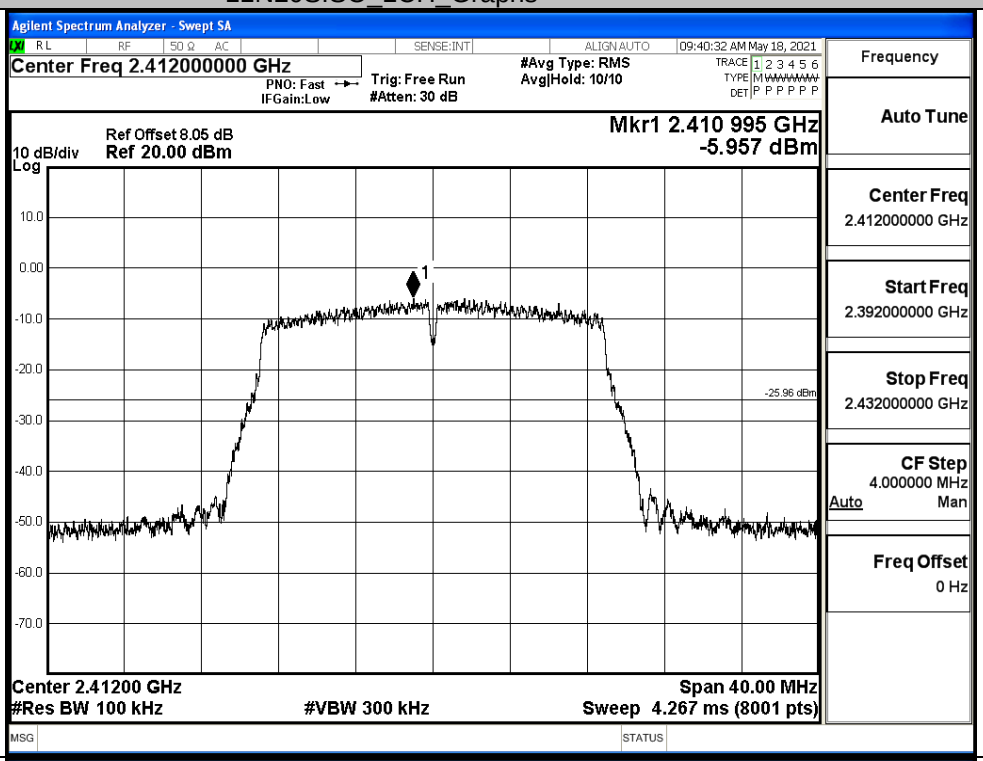
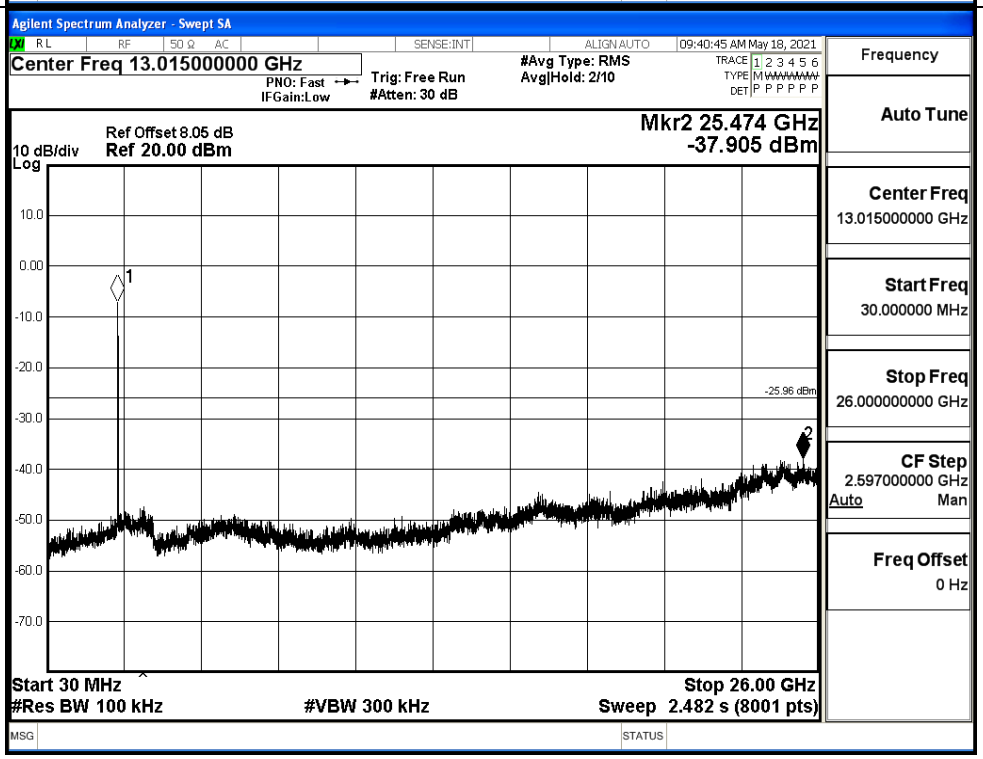
11B_MCH_Graphs	
Pref/11B/MCH	
Puw/11B/MCH	

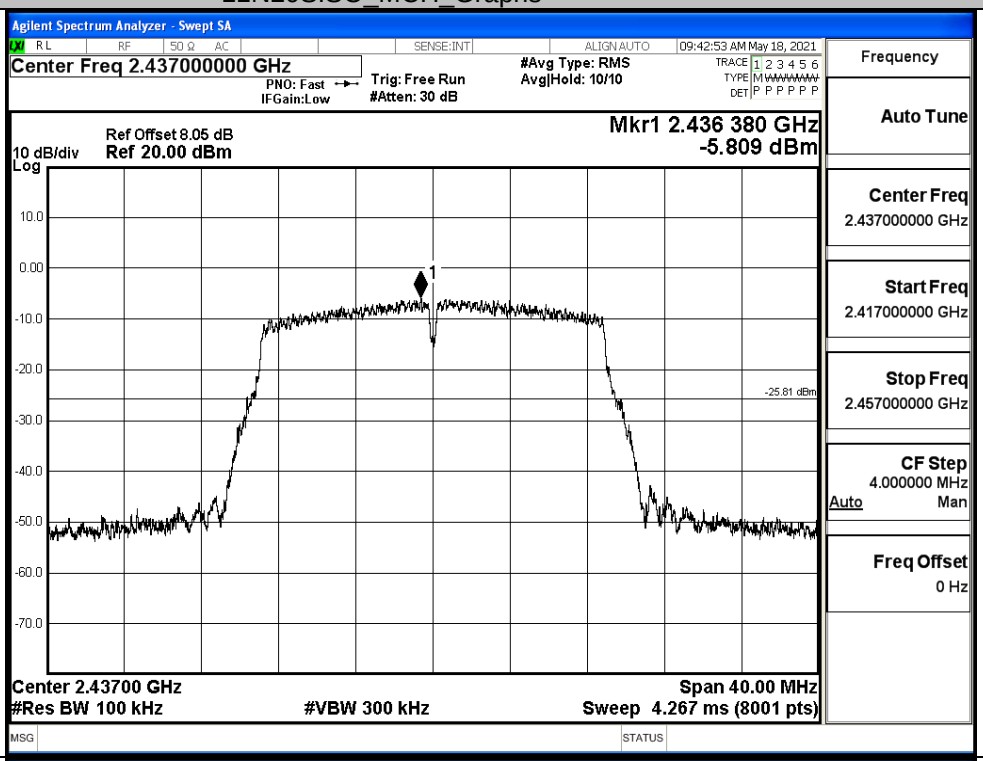
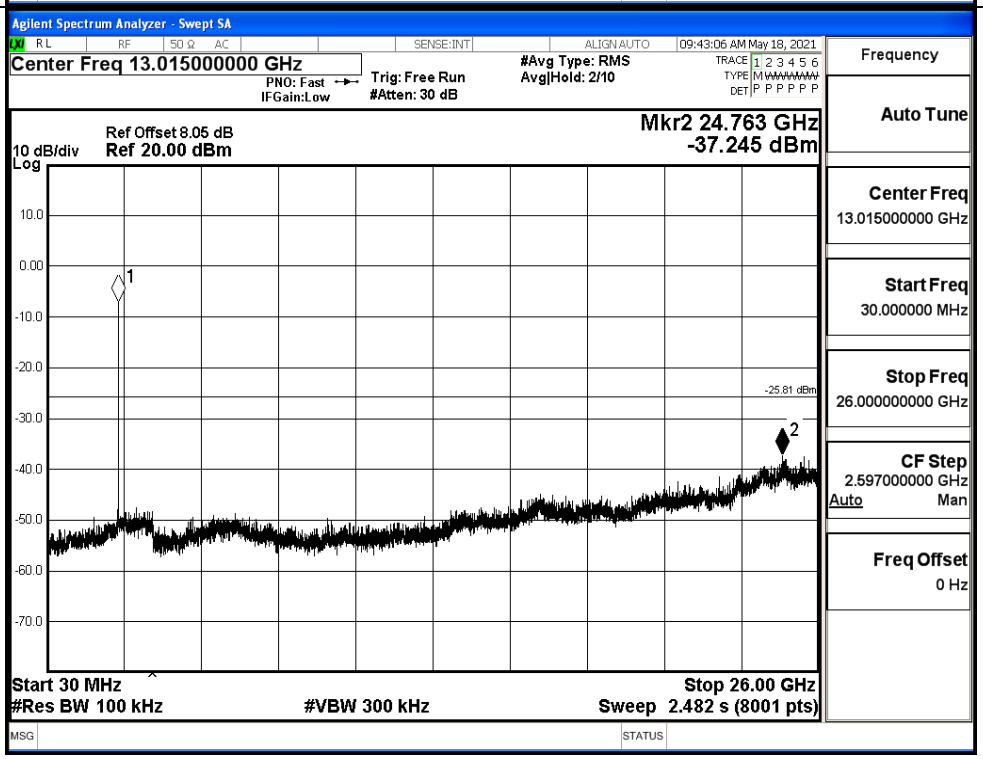
11B_HCH_Graphs		
Pref/11B/HCH		
Puw/11B/HCH		

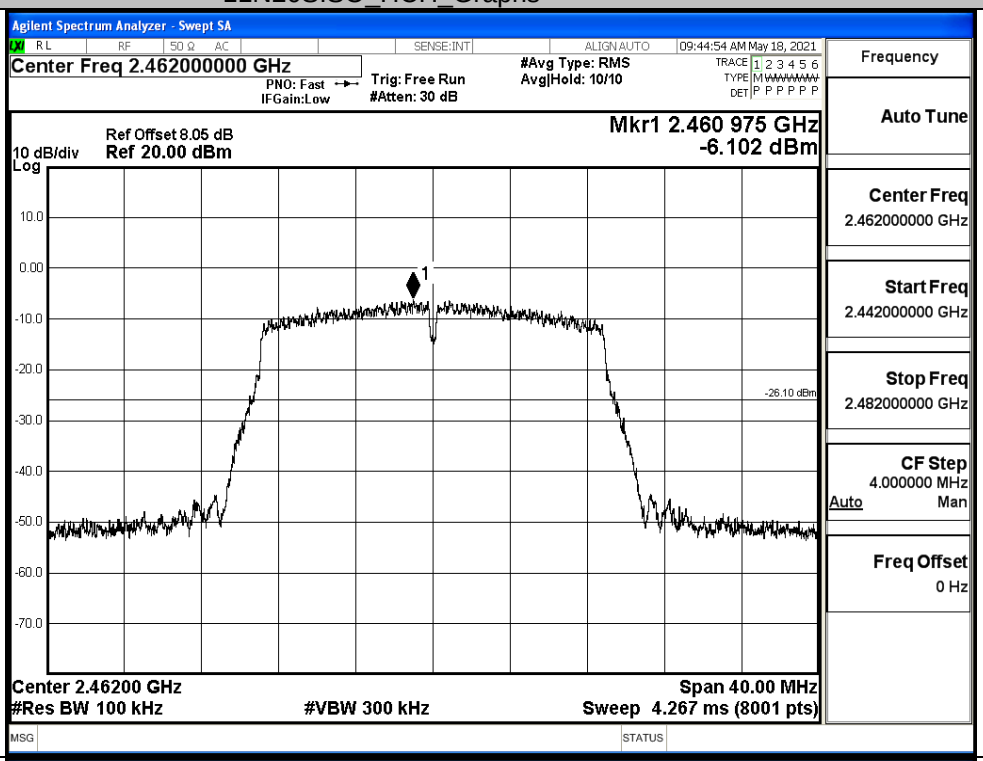
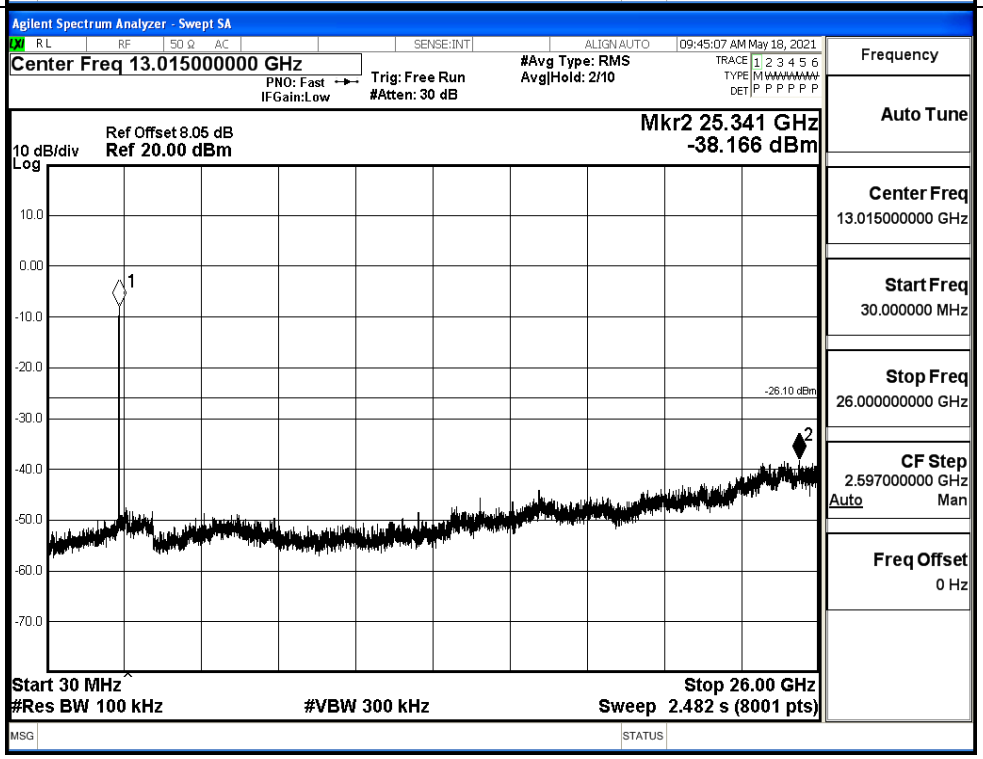
11G_LCH_Graphs		
Pref/11G/LCH		
Puw/11G/LCH		

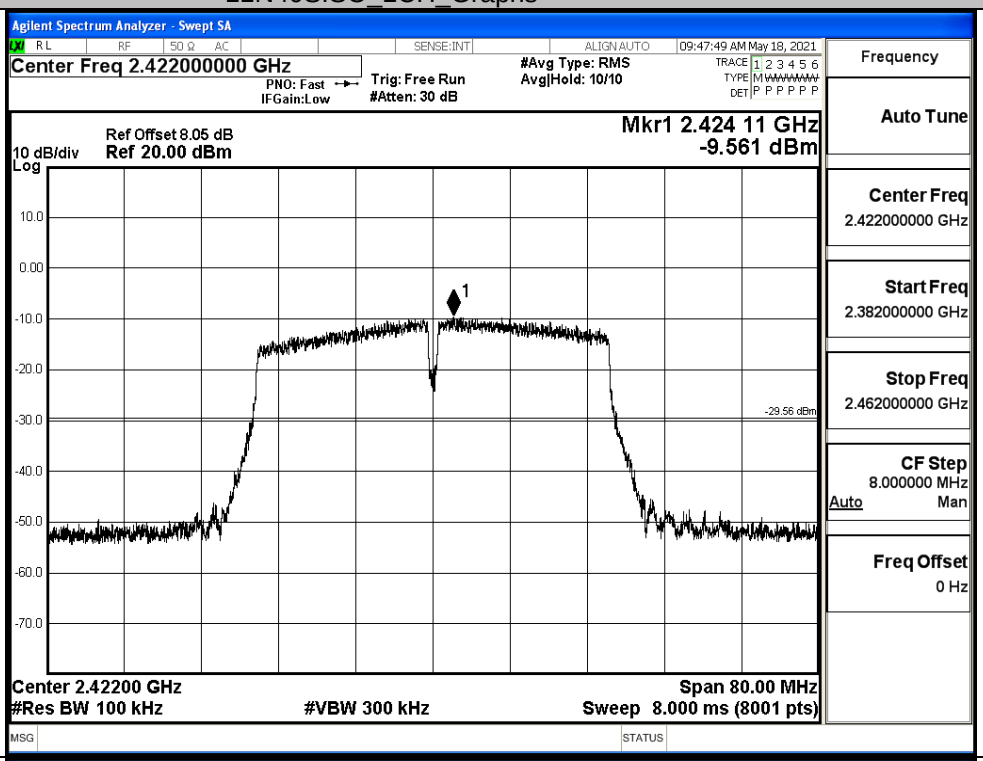
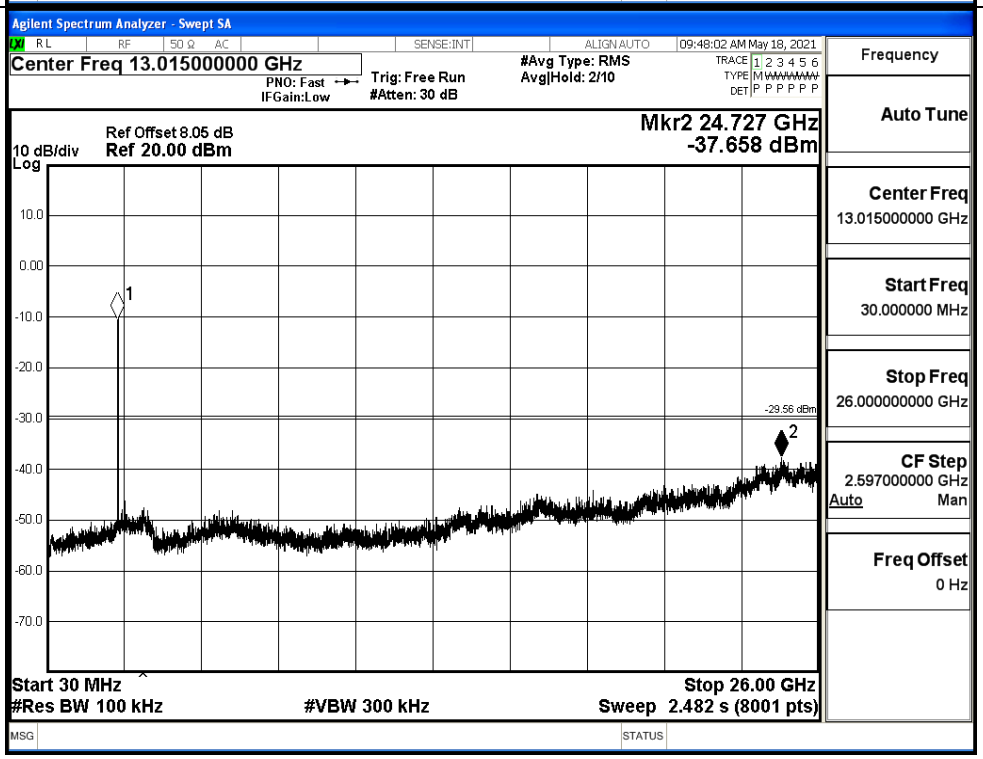
11G_MCH_Graphs	
Pref/11G/MCH	
Puw/11G/MCH	

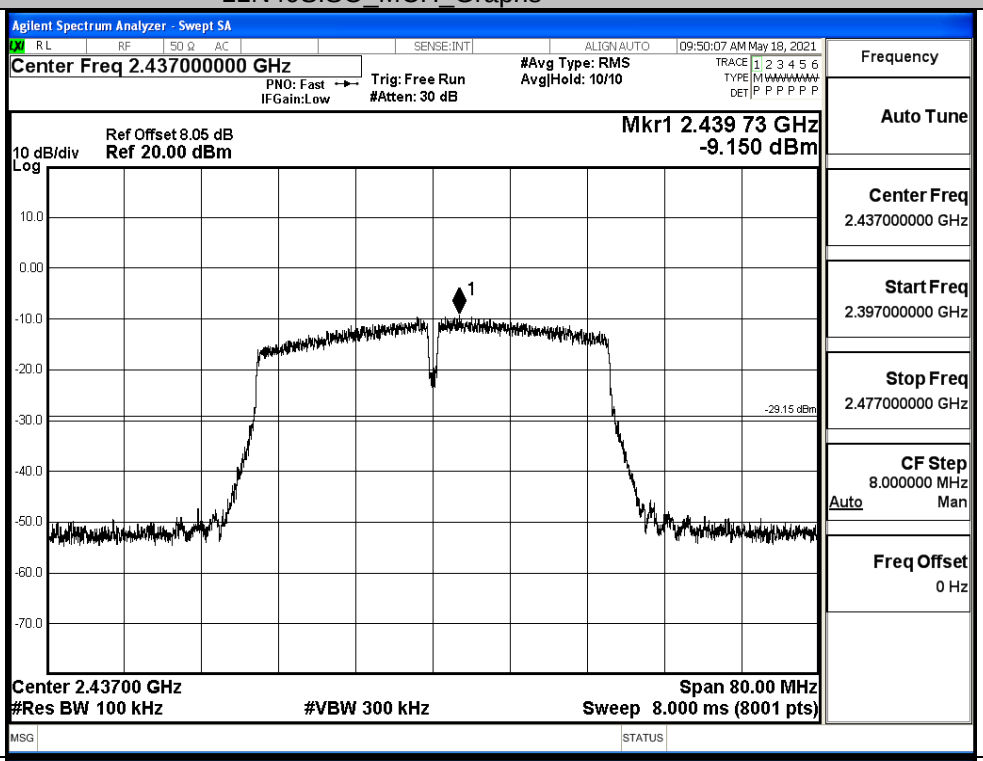
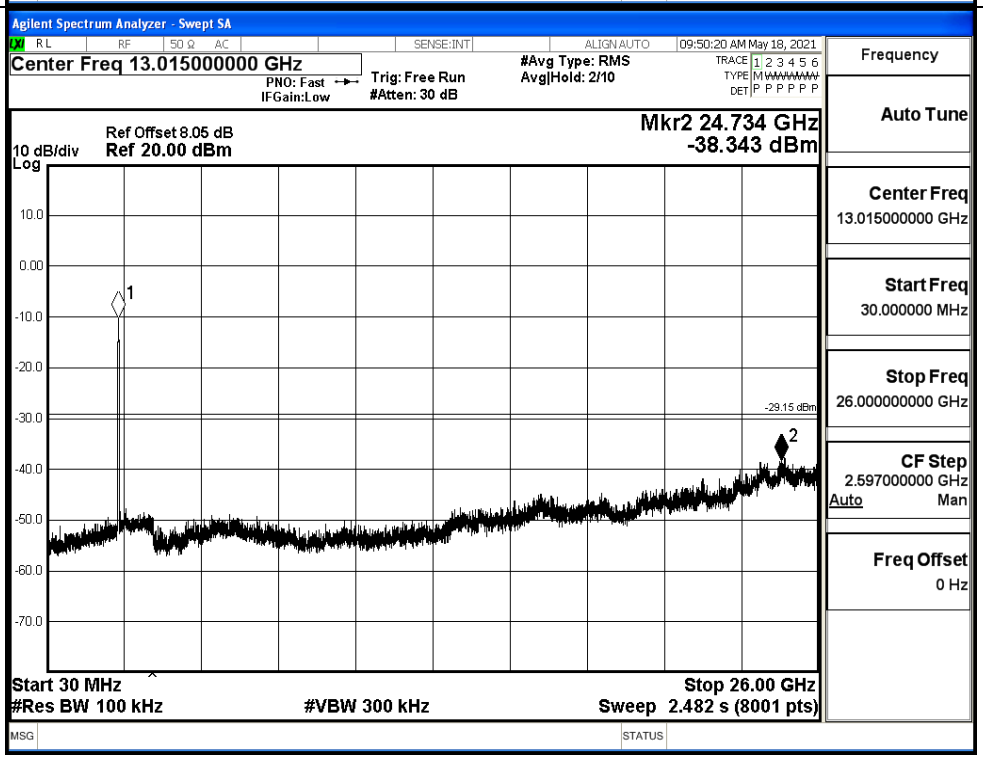
11G_HCH_Graphs		
Pref/11G/HCH		
Puw/11G/HCH		

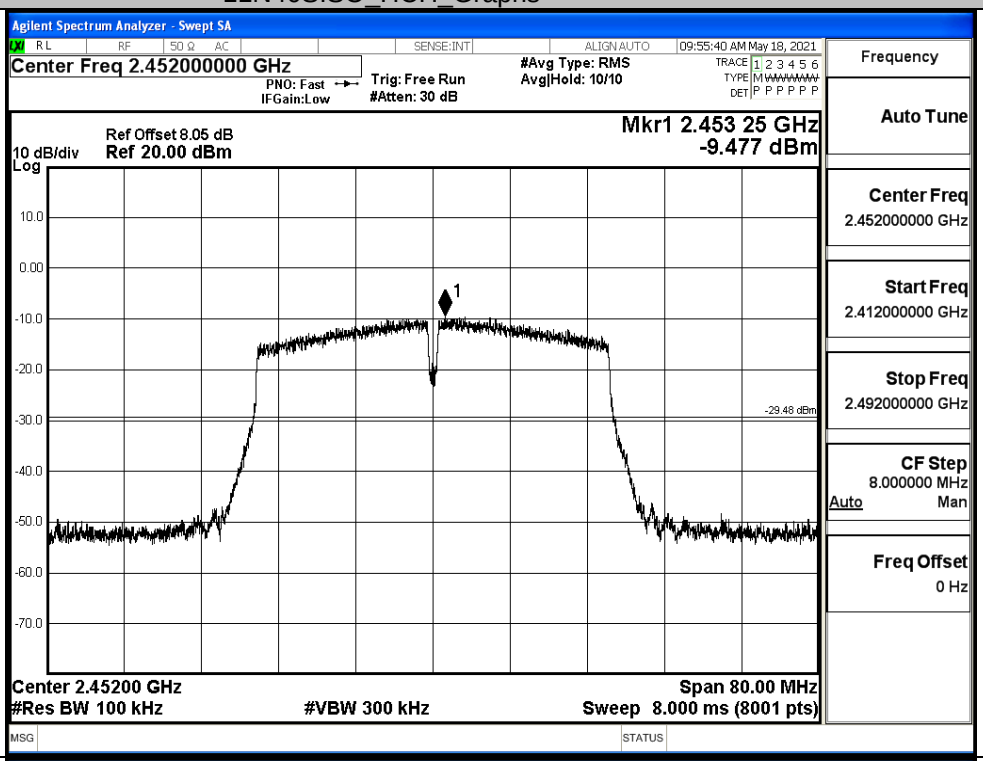
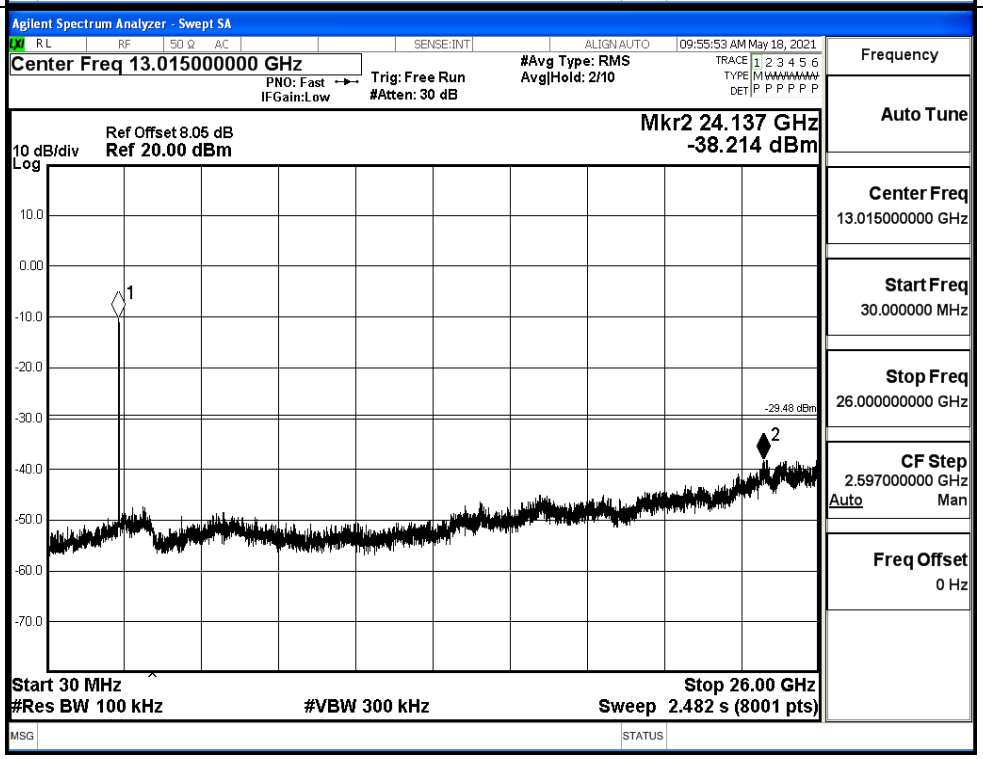
11N20SISO_LCH_Graphs	
Pref/11N20SISO/LCH	
Puw/11N20SISO/LCH	

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

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

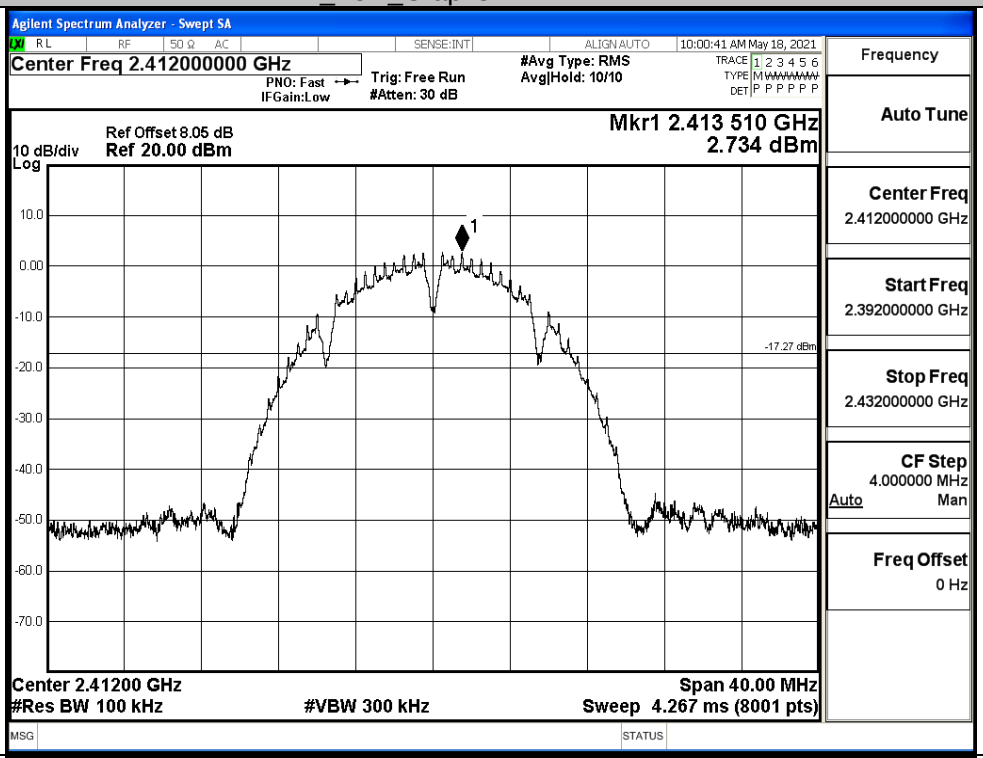
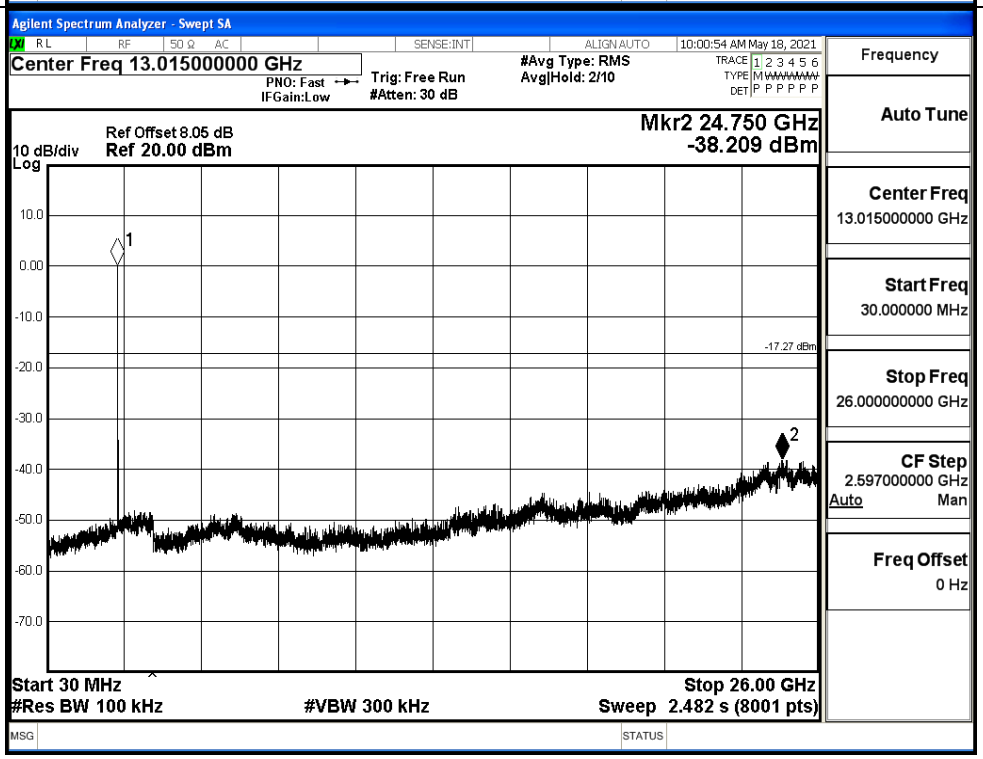
11N40SISO_LCH_Graphs	
Pref/11N40 SISO/LCH	
Puw/11N40 SISO/LCH	

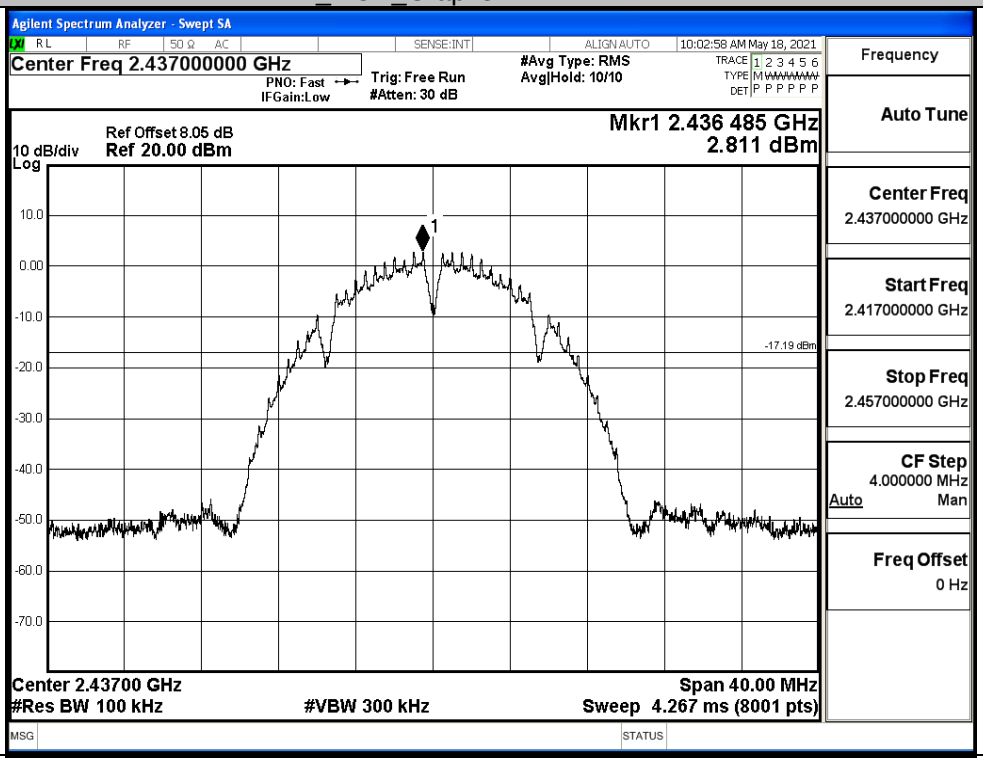
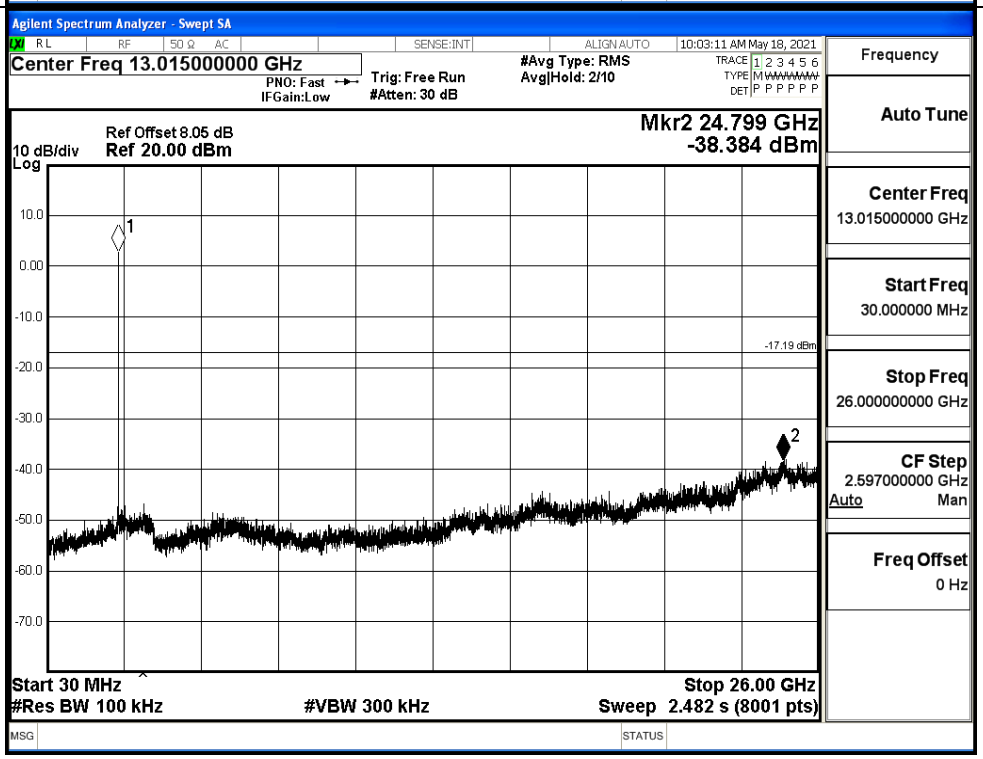
11N40SISO_MCH_Graphs	
Pref/11N40 SISO/MCH	
Puw/11N40 SISO/MCH	

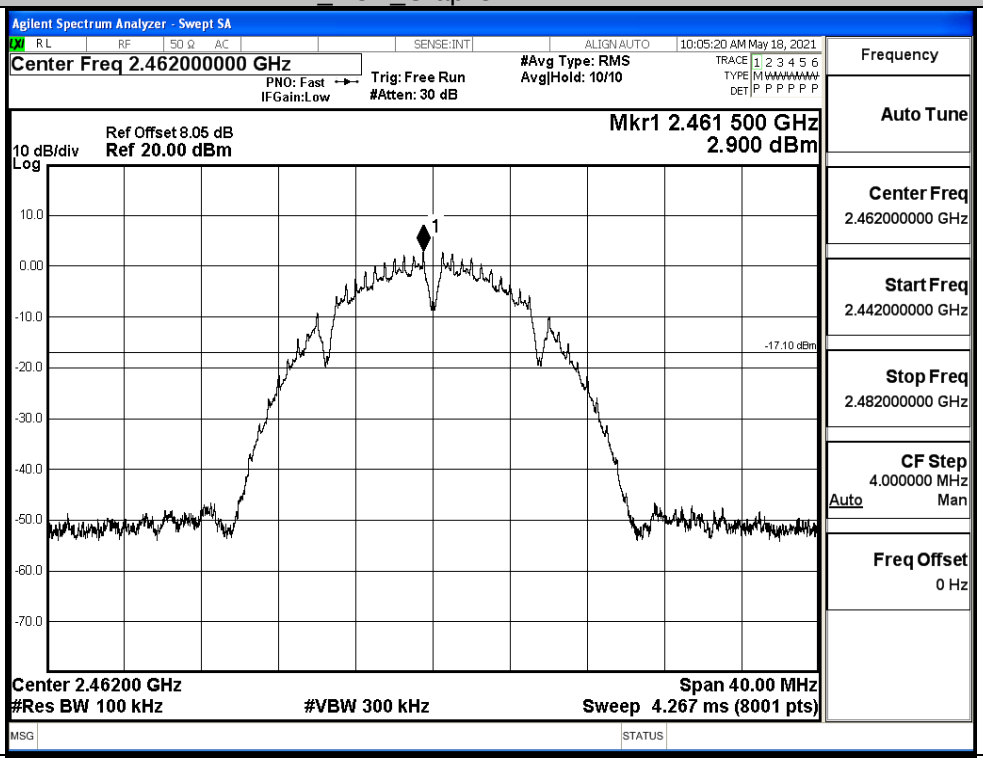
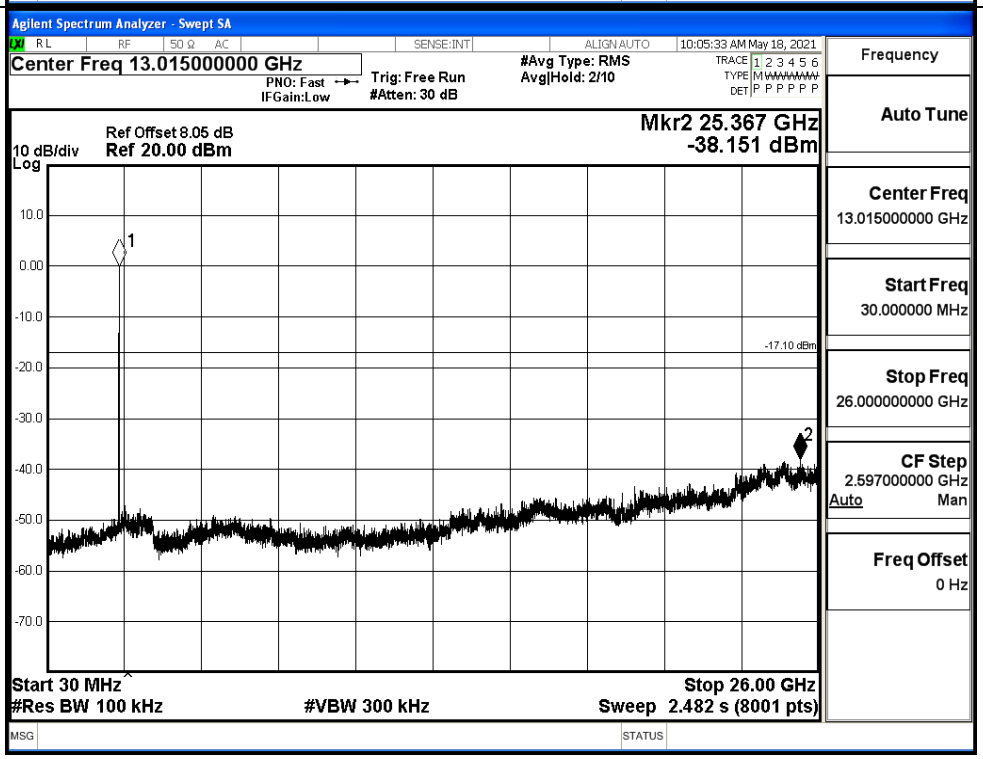
11N40SISO_HCH_Graphs	
Pref/11N40 SISO/HCH	
Puw/11N40 SISO/HCH	

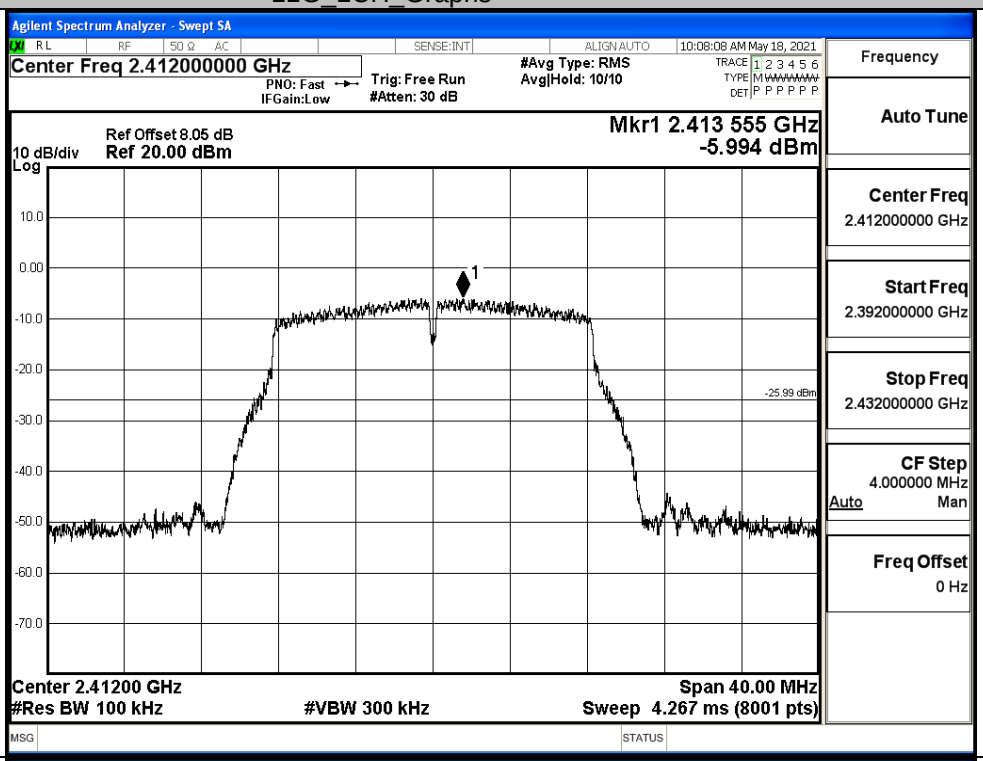
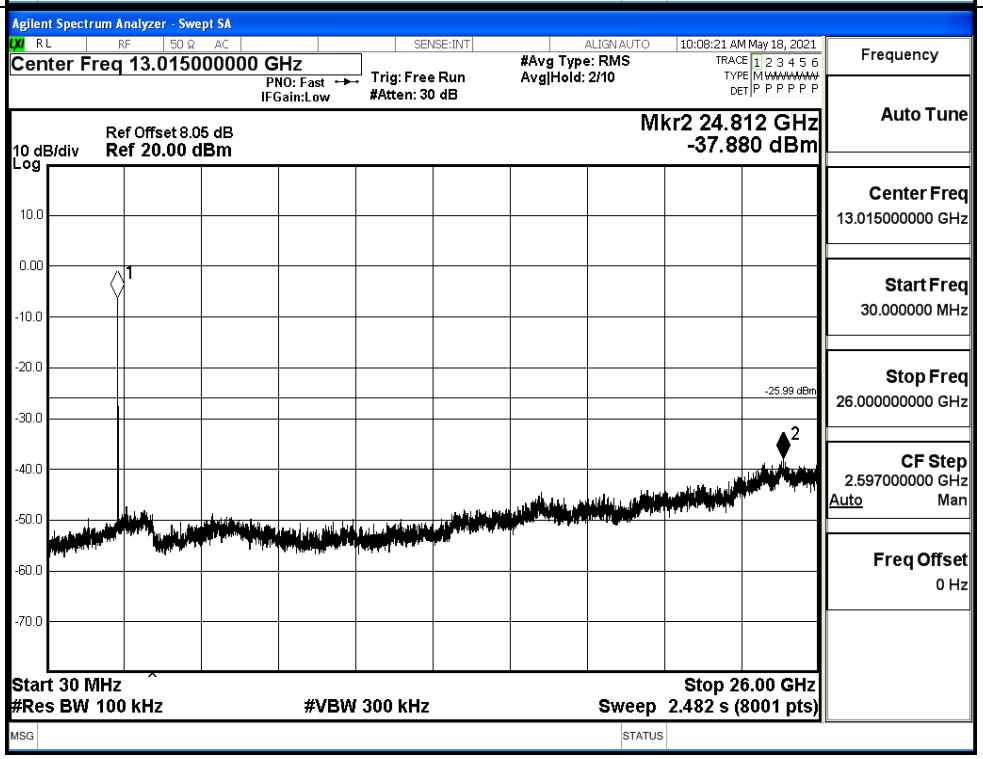
ANT1

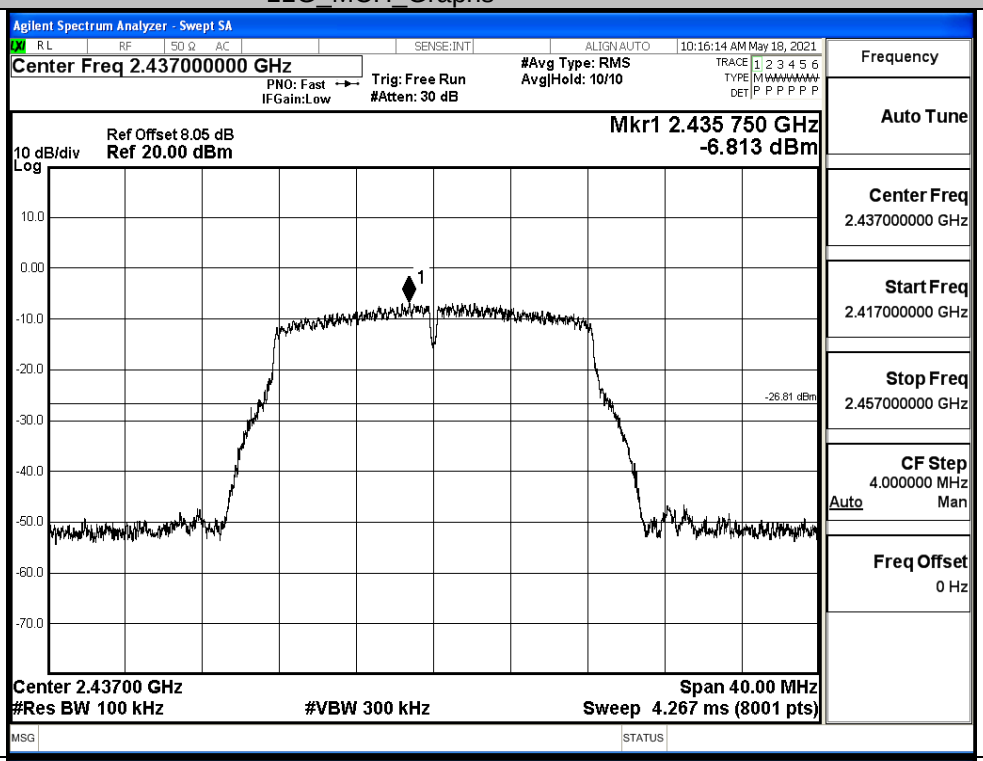
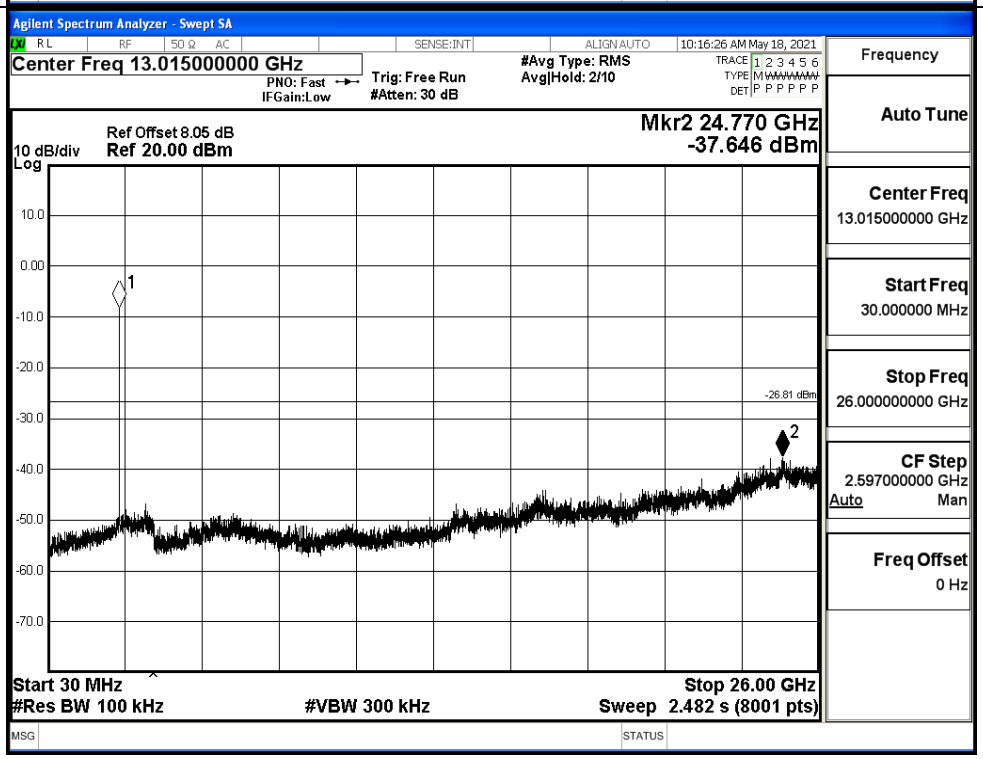
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	2.734	-38.209	-17.266	PASS
	MCH	2.811	-38.384	-17.189	PASS
	HCH	2.9	-38.151	-17.100	PASS
11G	LCH	-5.994	-37.880	-25.994	PASS
	MCH	-6.813	-37.646	-26.813	PASS
	HCH	-7.851	-38.863	-27.851	PASS
11N20 SISO	LCH	-6.866	-37.944	-26.866	PASS
	MCH	-6.581	-38.176	-26.581	PASS
	HCH	-6.968	-37.647	-26.968	PASS
11N40 SISO	LCH	-9.371	-37.661	-29.371	PASS
	MCH	-9.53	-37.967	-29.530	PASS
	HCH	-7.967	-38.264	-27.967	PASS

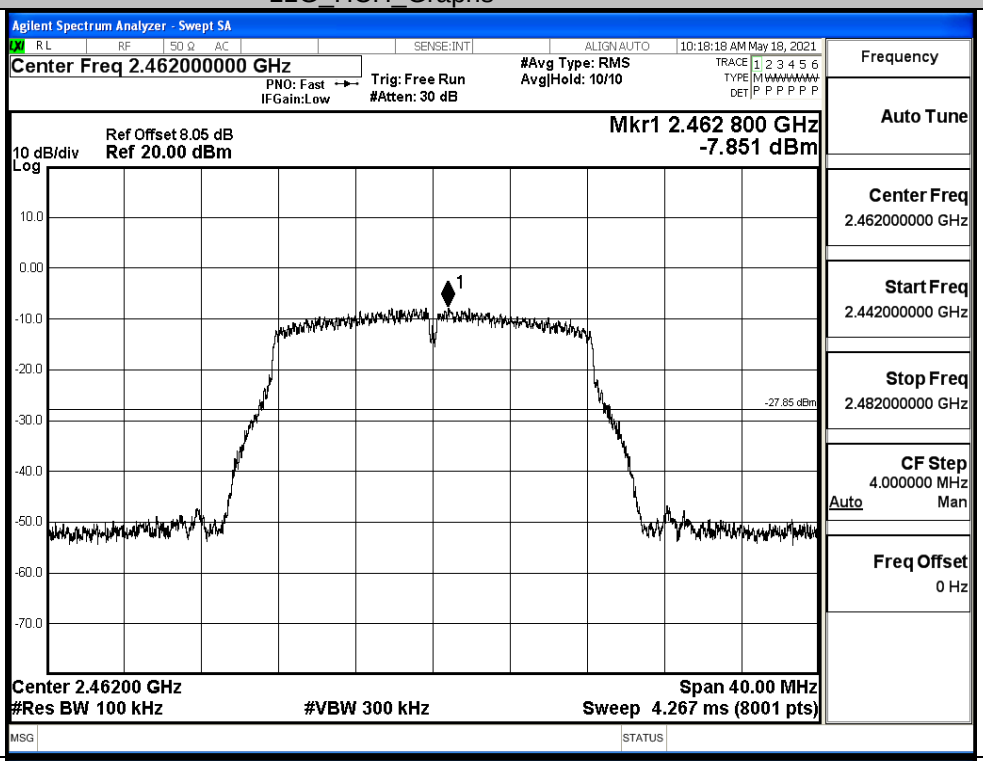
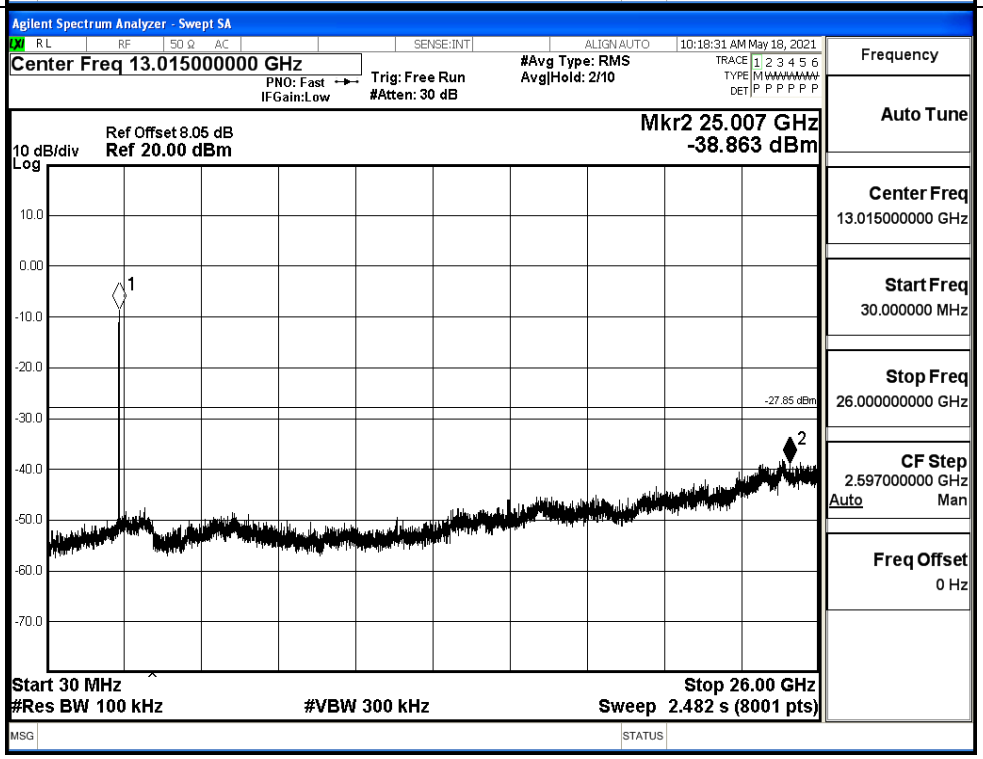
11B_LCH_Graphs		
Pref/11B/LCH		
Puw/11B/LCH		

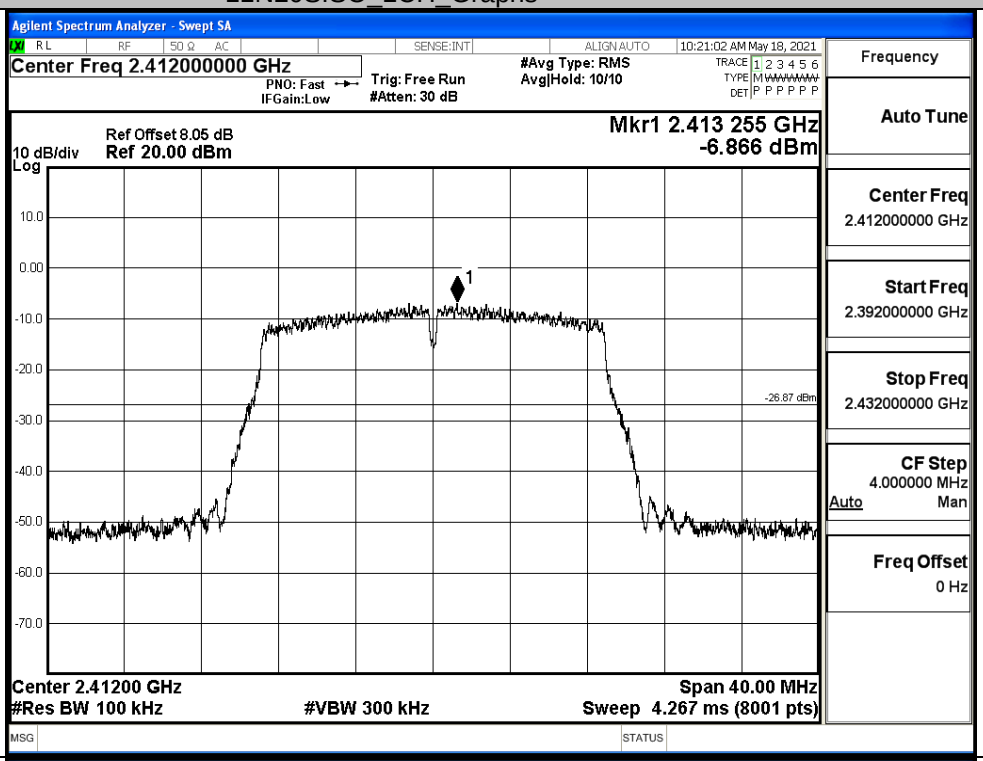
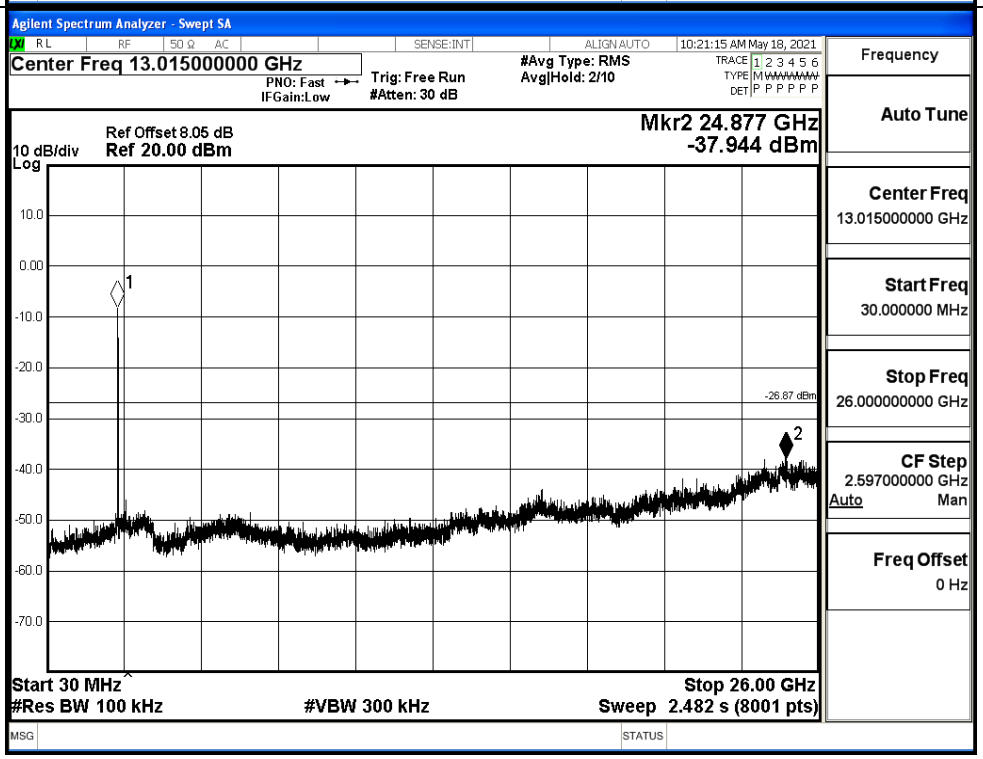
11B_MCH_Graphs		
Pref/11B/MCH		
Puw/11B/MCH		

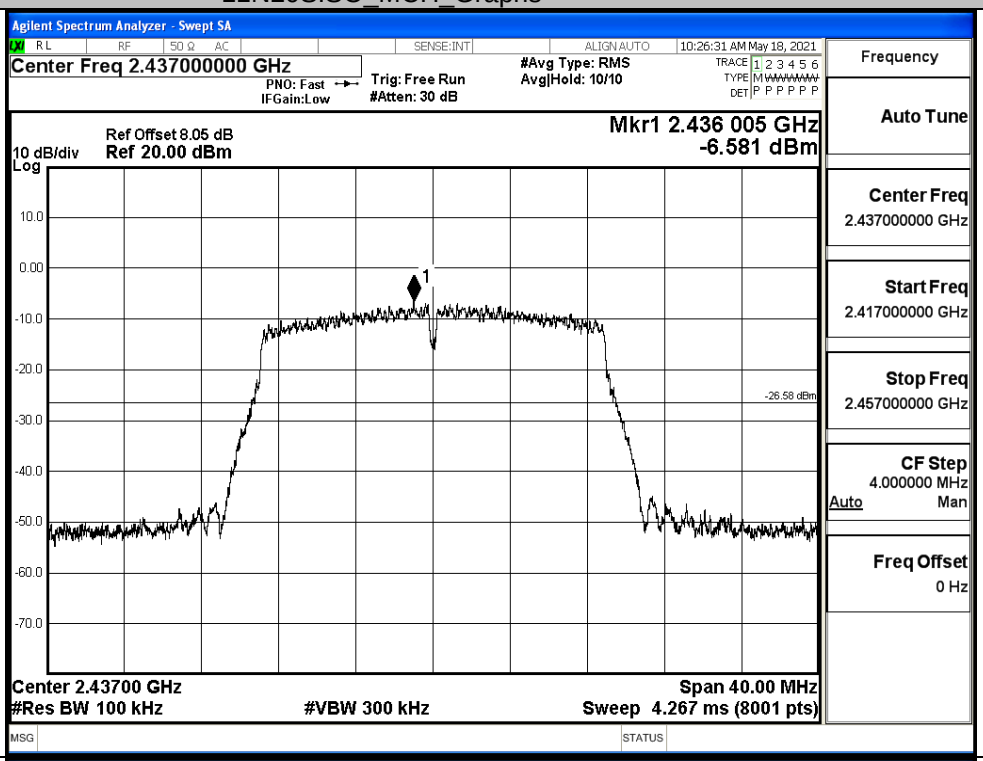
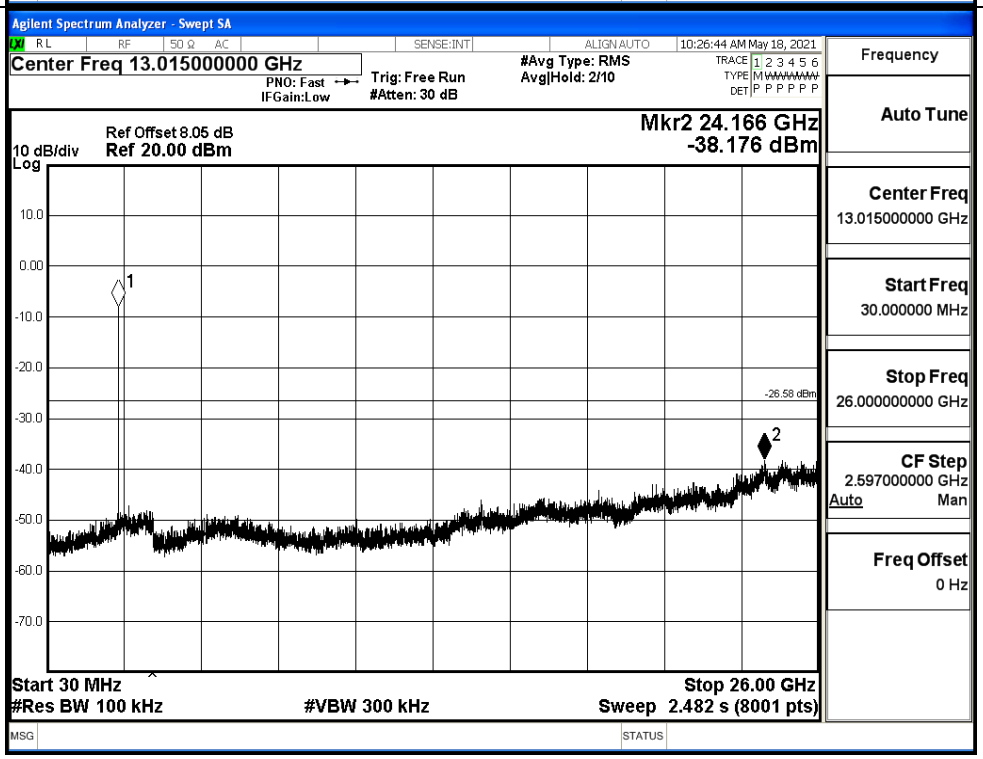
11B_HCH_Graphs		
Pref/11B/HCH		
Puw/11B/HCH		

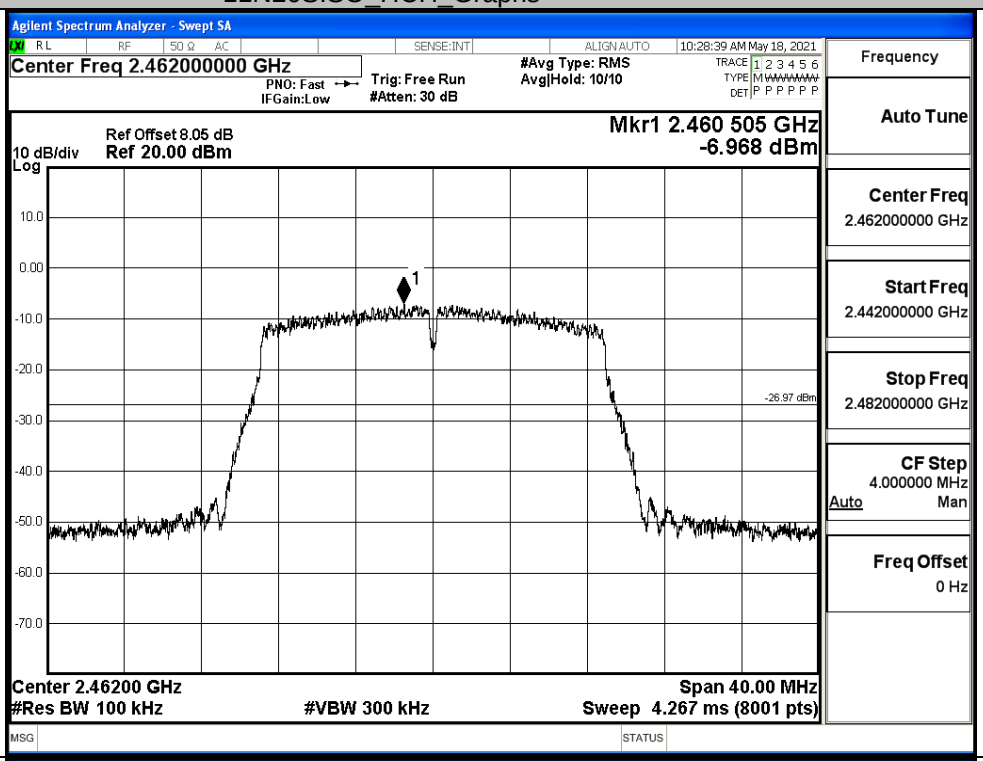
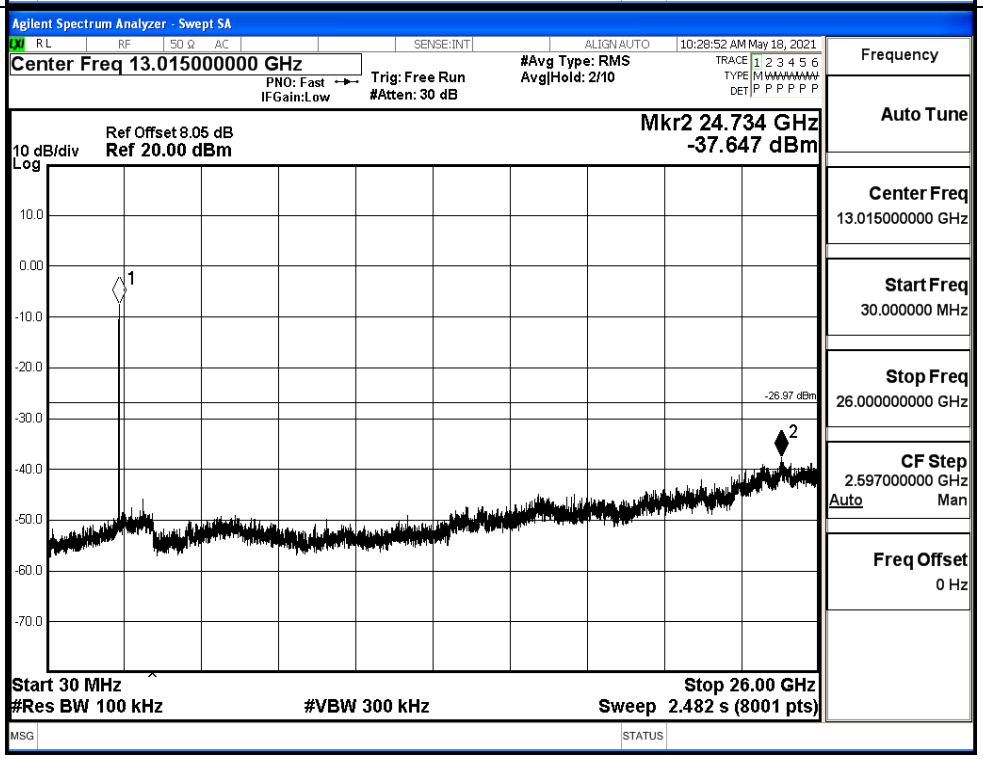
11G_LCH_Graphs		
Pref/11G/LCH		
Puw/11G/LCH		

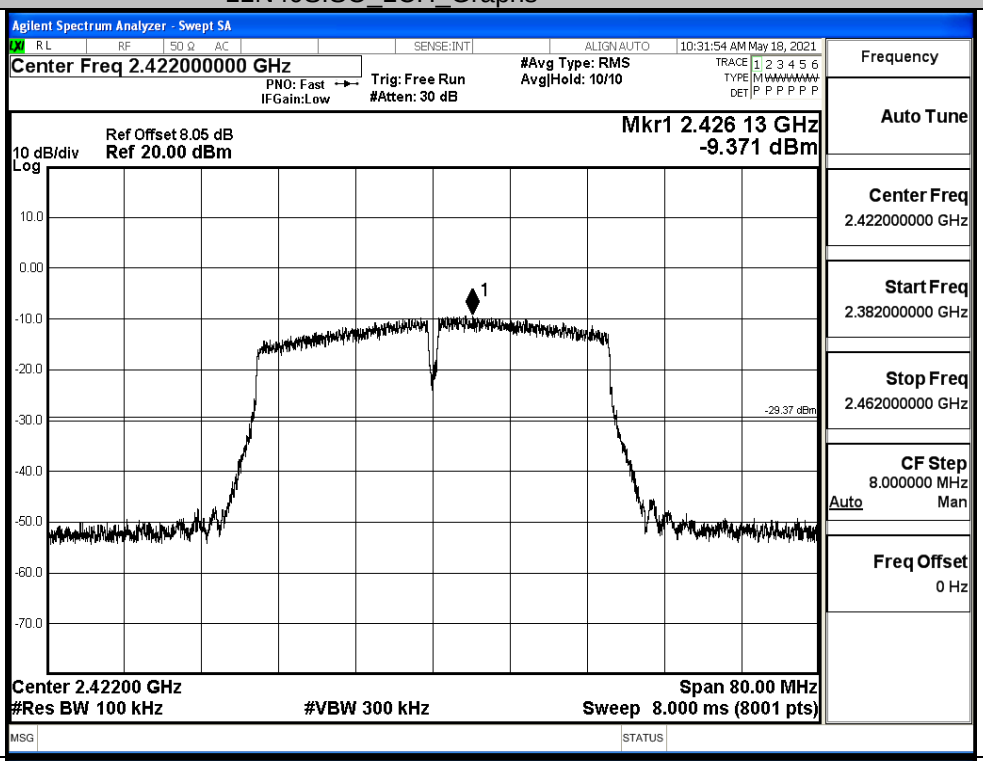
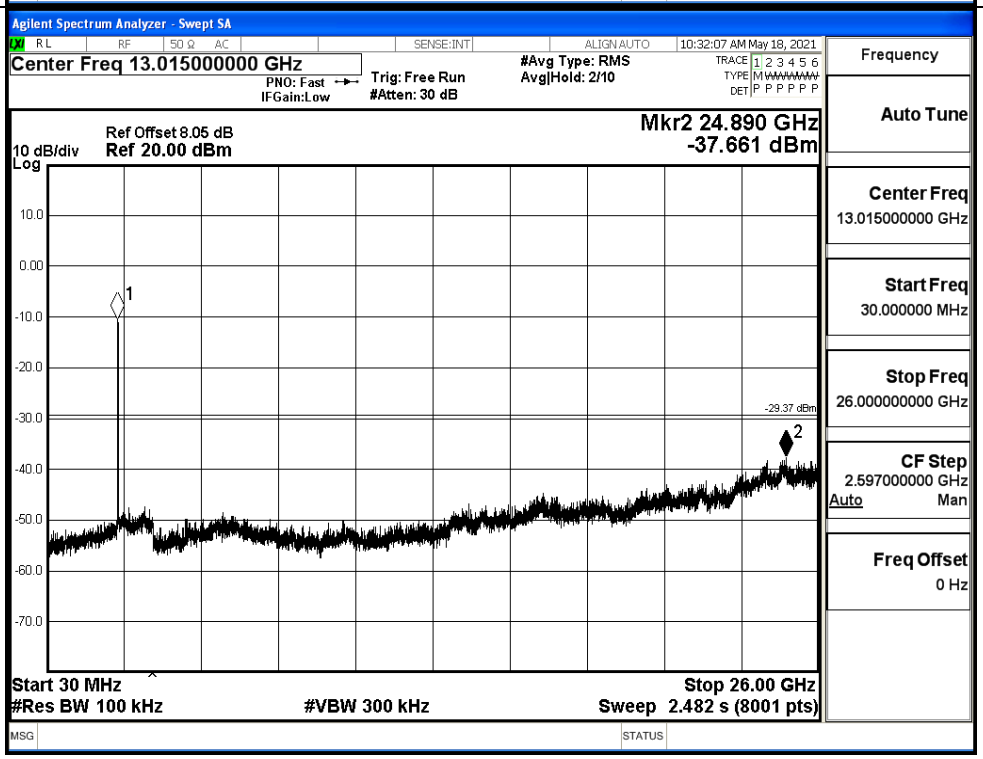
11G_MCH_Graphs	
Pref/11G/MCH	
Puw/11G/MCH	

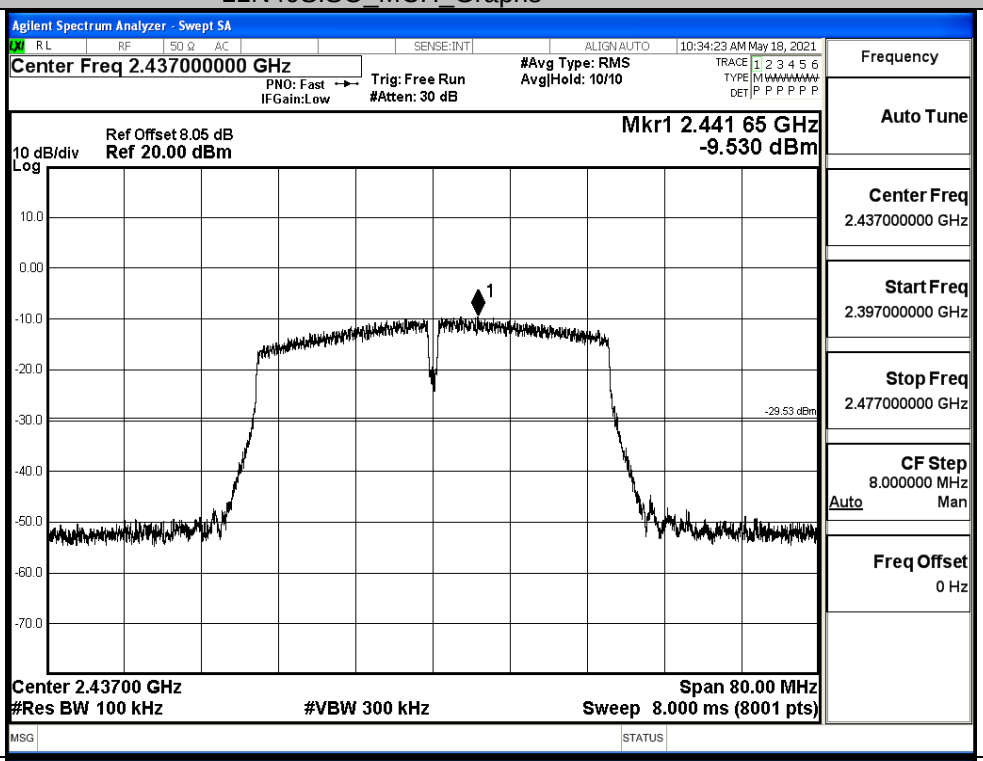
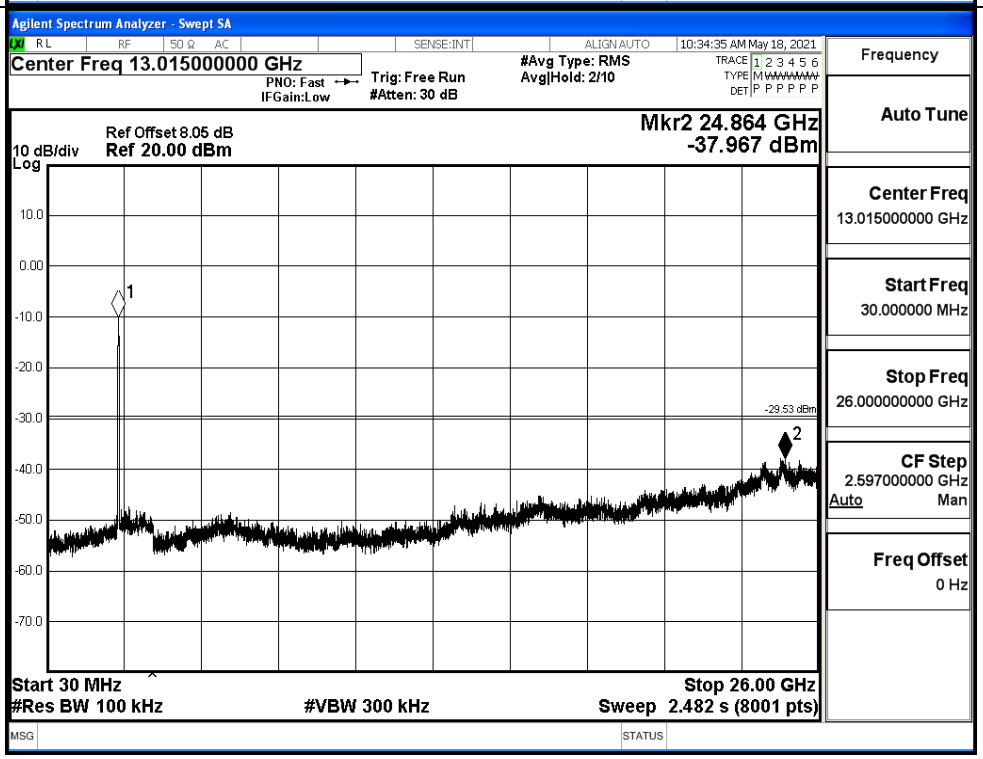
11G_HCH_Graphs		
Pref/11G/HCH		
Puw/11G/HCH		

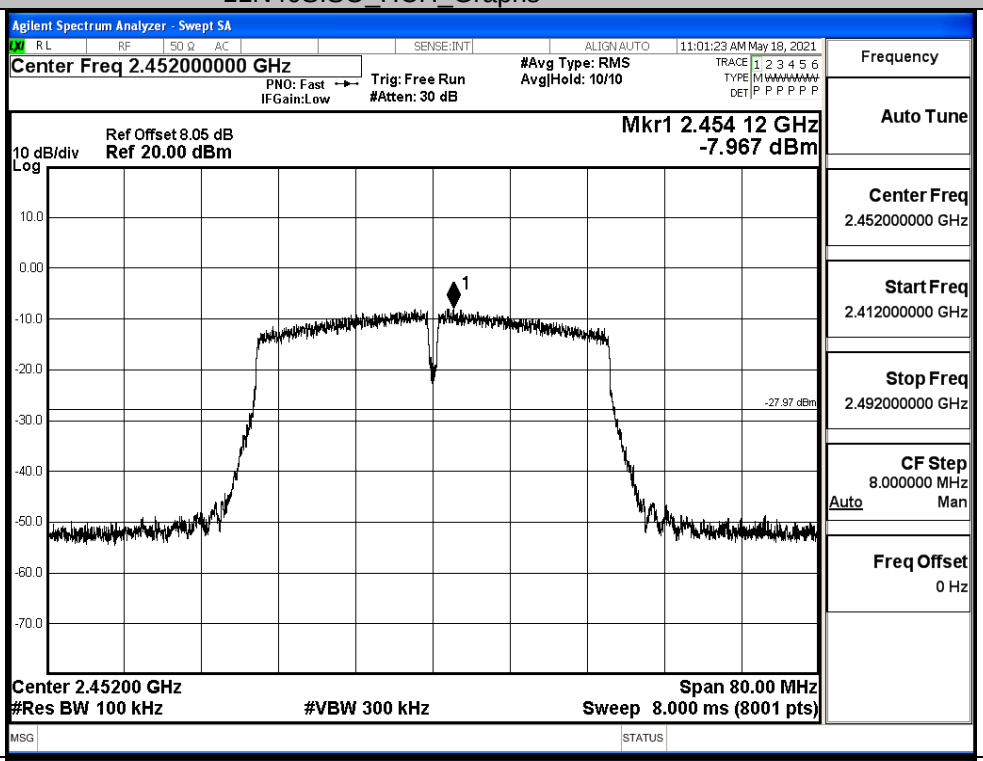
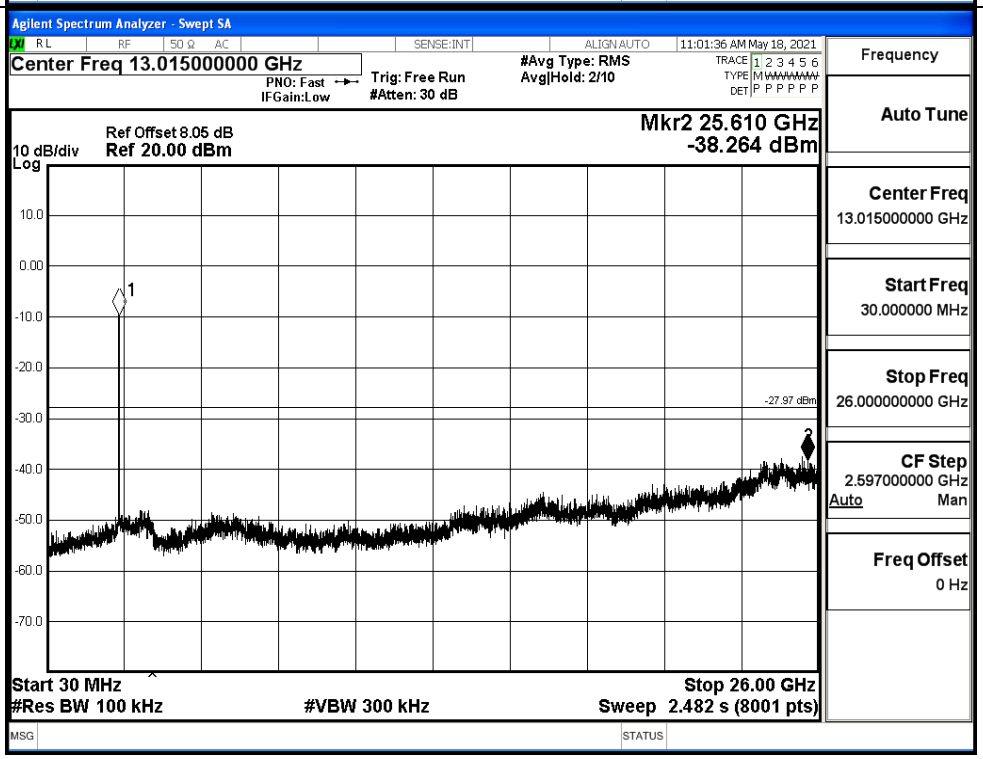
11N20SISO_LCH_Graphs		
Pref/11N20SISO/LCH		
Puw/11N20SISO/LCH		

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

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

11N40SISO_LCH_Graphs	
Pref/11N40 SISO/LCH	
Puw/11N40 SISO/LCH	

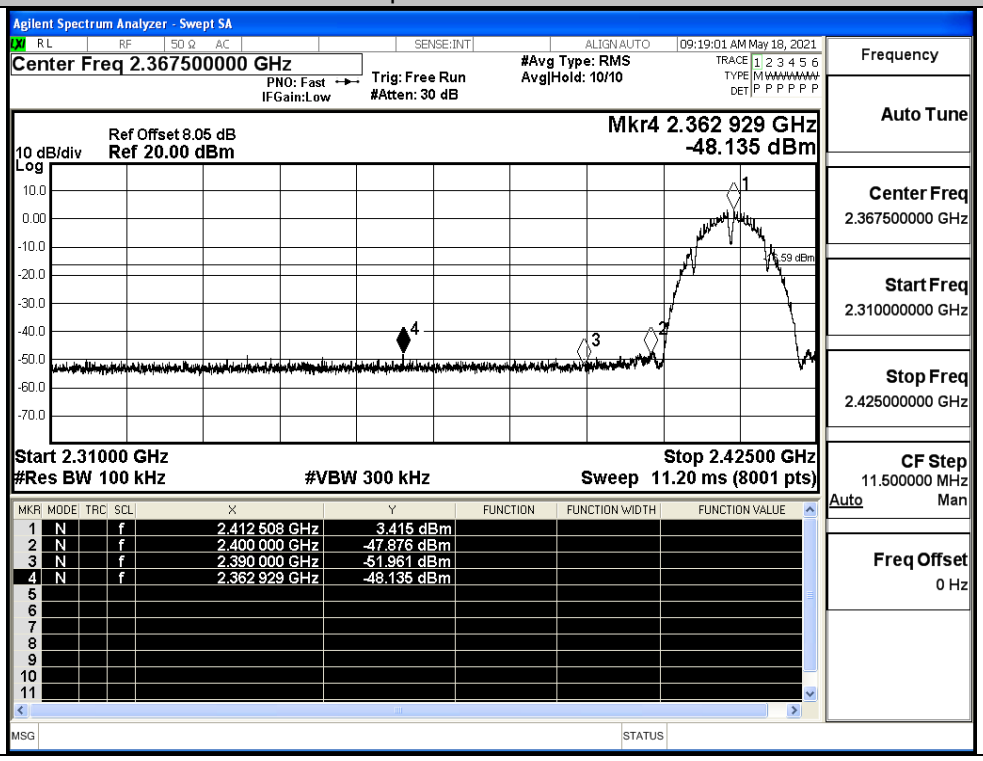
11N40SISO_MCH_Graphs	
Pref/11N40 SISO/MCH	
Puw/11N40 SISO/MCH	

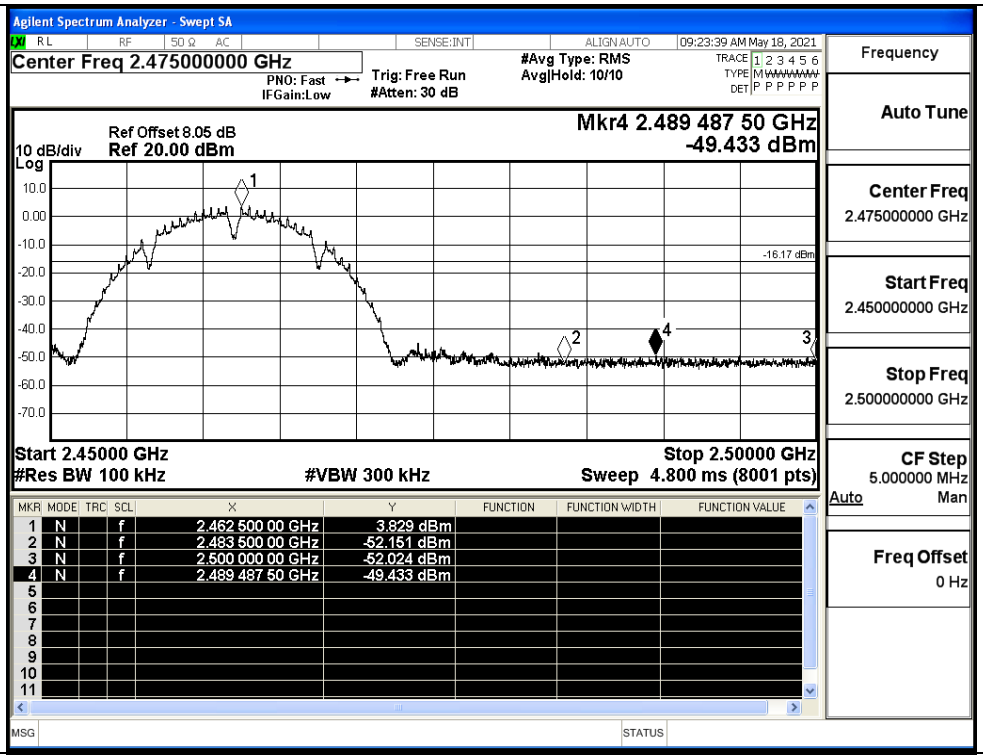
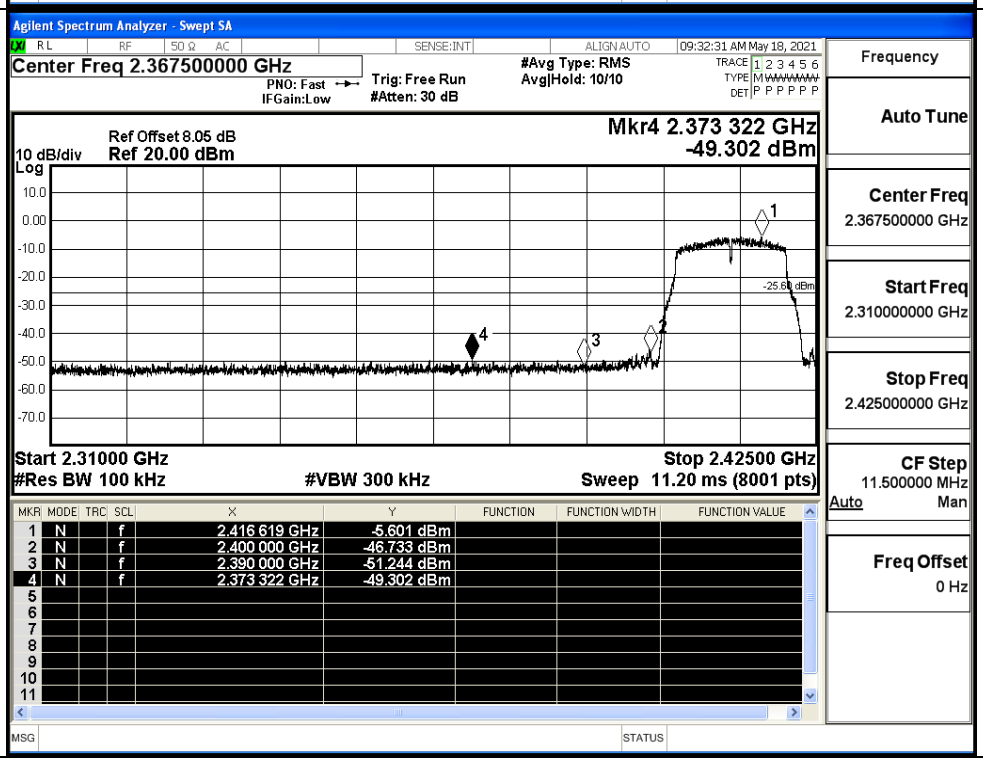
11N40SISO_HCH_Graphs	
Pref/11N40 SISO/HCH	
Puw/11N40 SISO/HCH	

C.6 Band-edge for RF Conducted Emissions

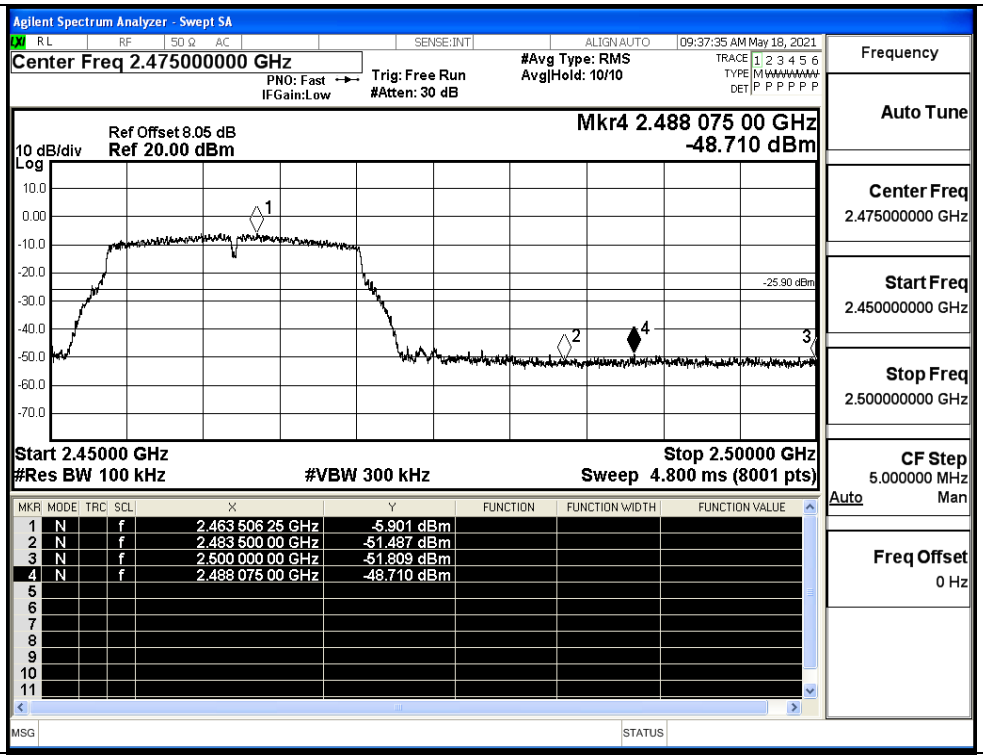
ANT0

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	3.415	-48.135	-16.59	PASS
	HCH	3.829	-49.433	-16.17	PASS
11G	LCH	-5.601	-49.302	-25.6	PASS
	HCH	-5.901	-48.710	-25.9	PASS
11N20SISO	LCH	-5.845	-48.881	-25.85	PASS
	HCH	-6.399	-49.024	-26.4	PASS
11N40SISO	LCH	-9.220	-49.307	-29.22	PASS
	HCH	-9.560	-48.384	-29.56	PASS

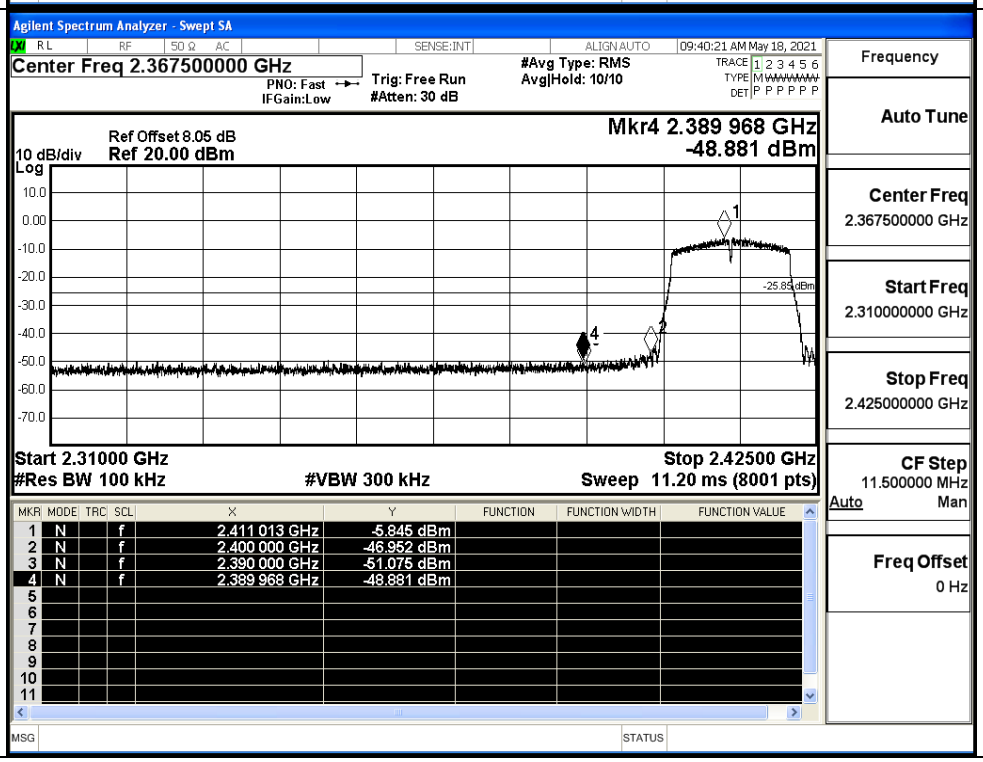
Test Graphs	
11B/LCH	

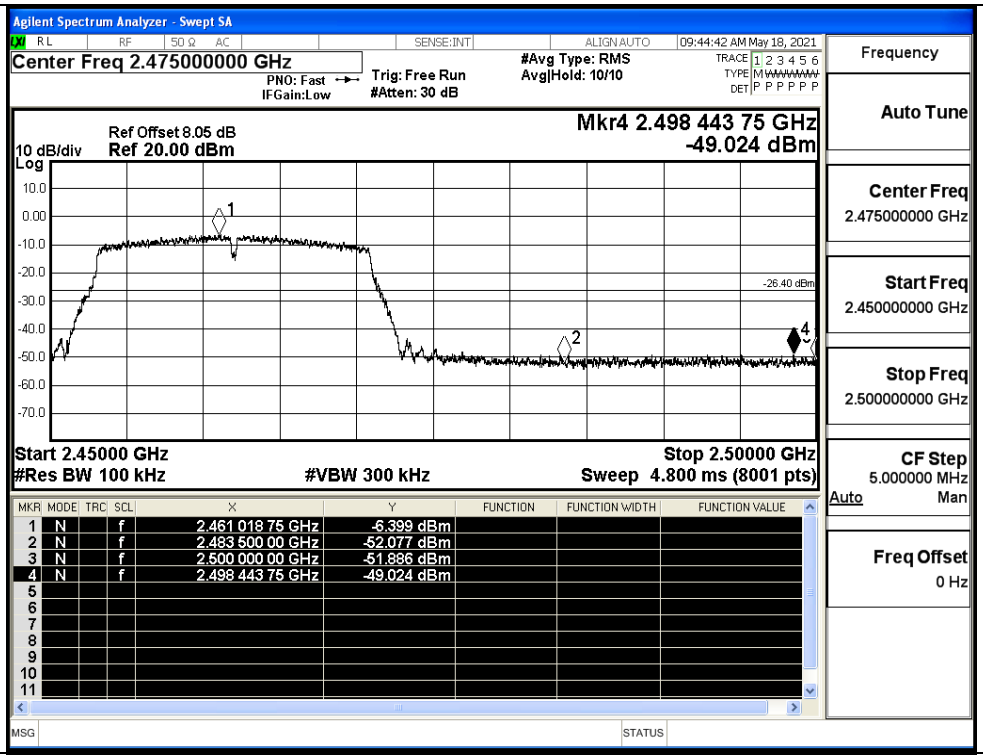
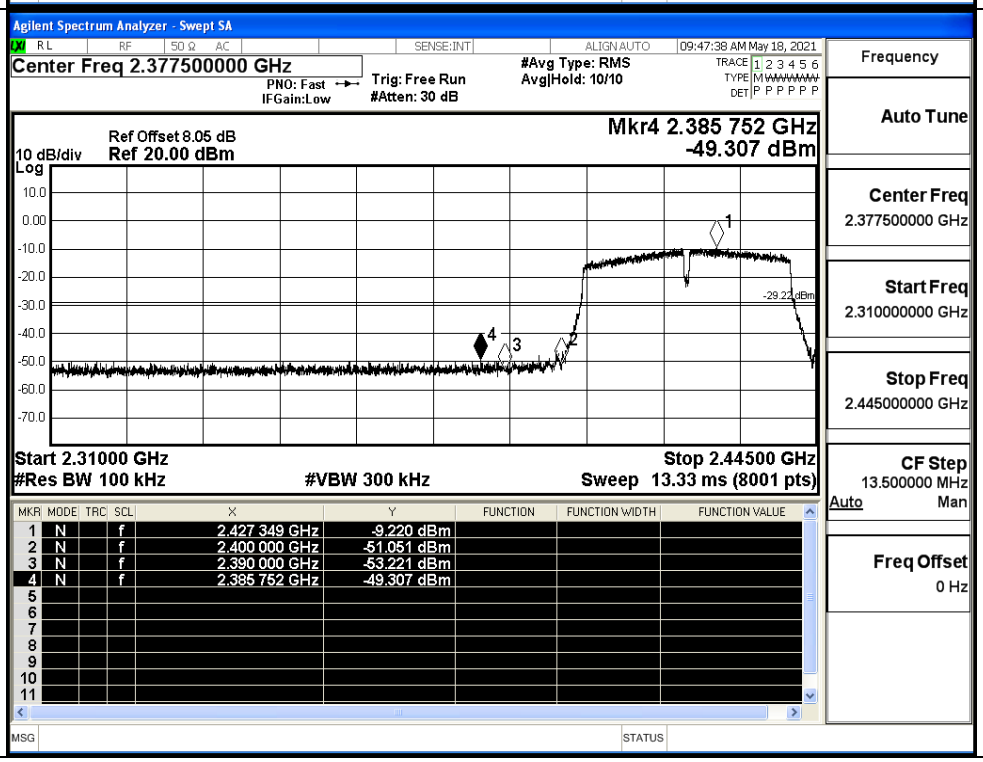
11B/HCH		
11G/LCH		

11G/HCH

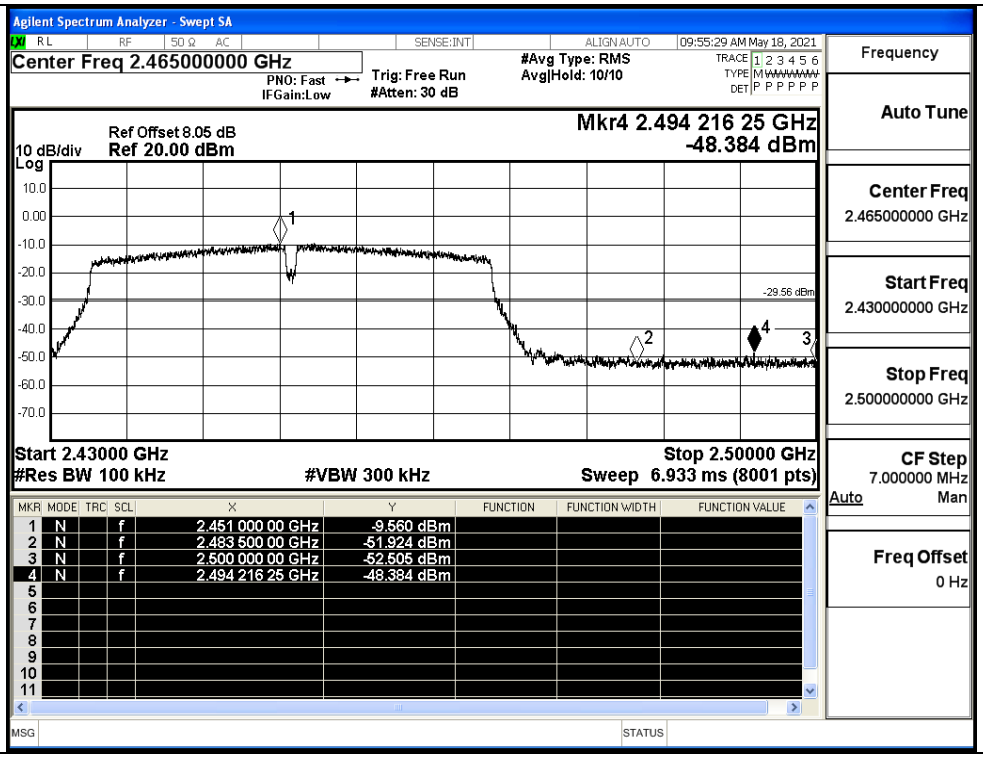


11N20SISO/LCH



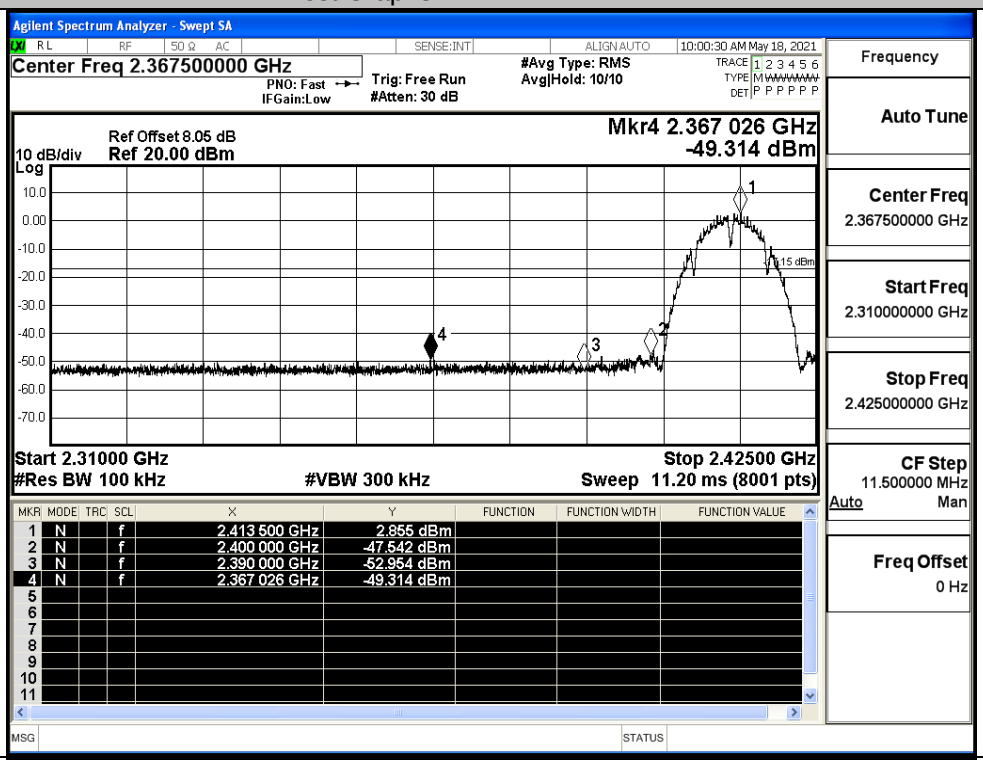
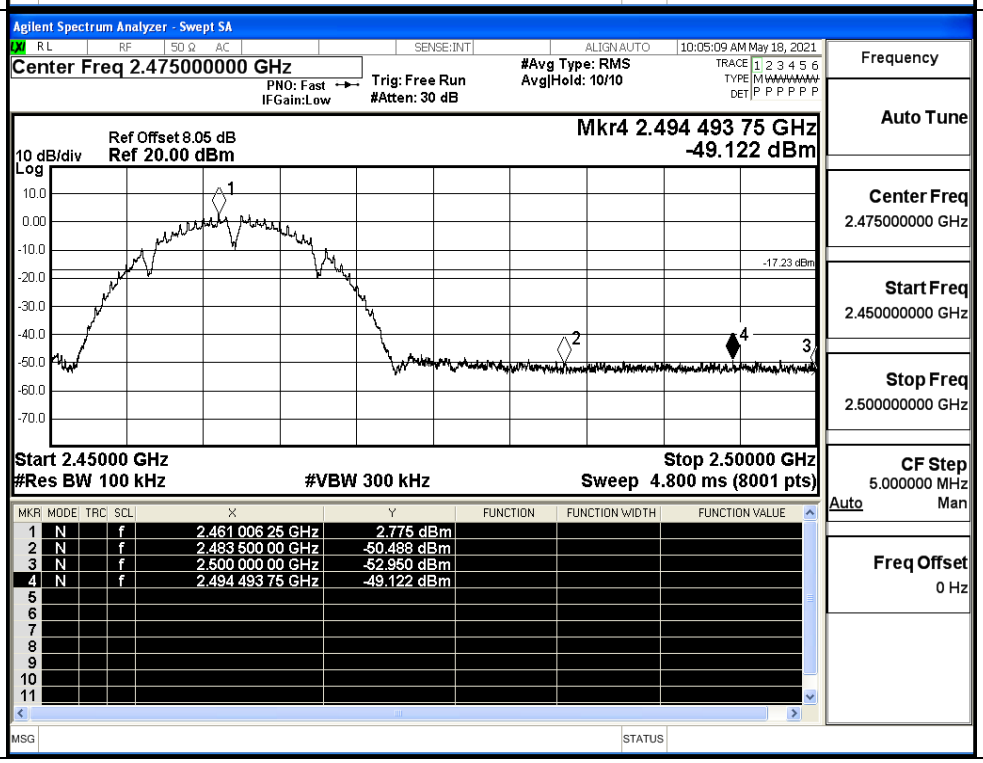
11N20SISO/HCH		
11N40SISO/LCH		

11N40SISO/HCH

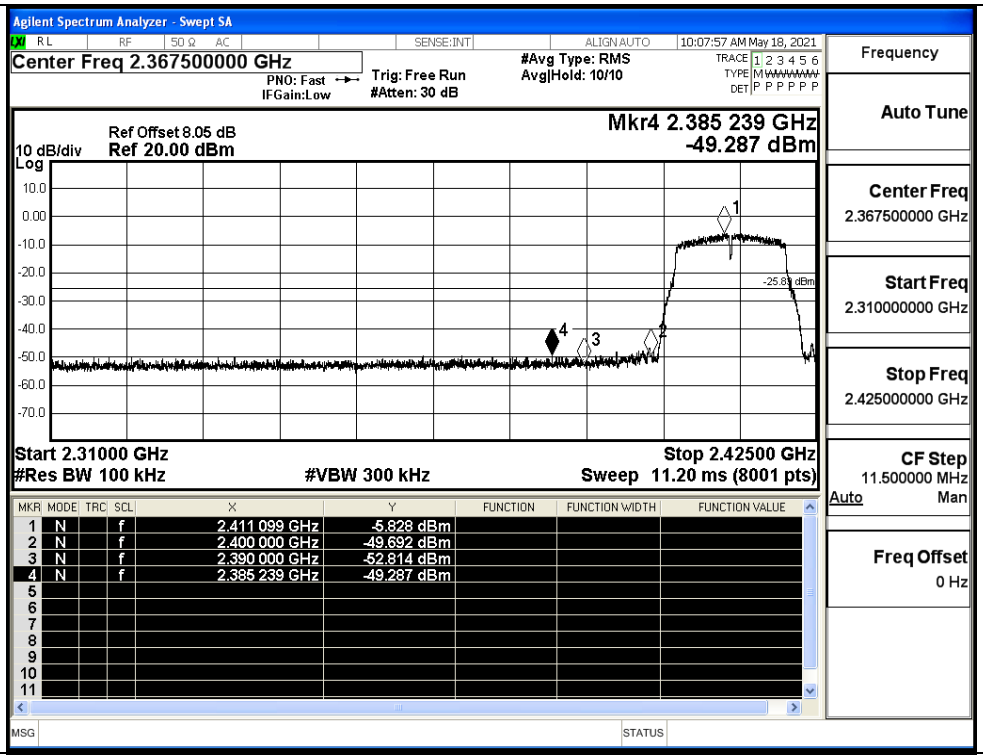


ANT1

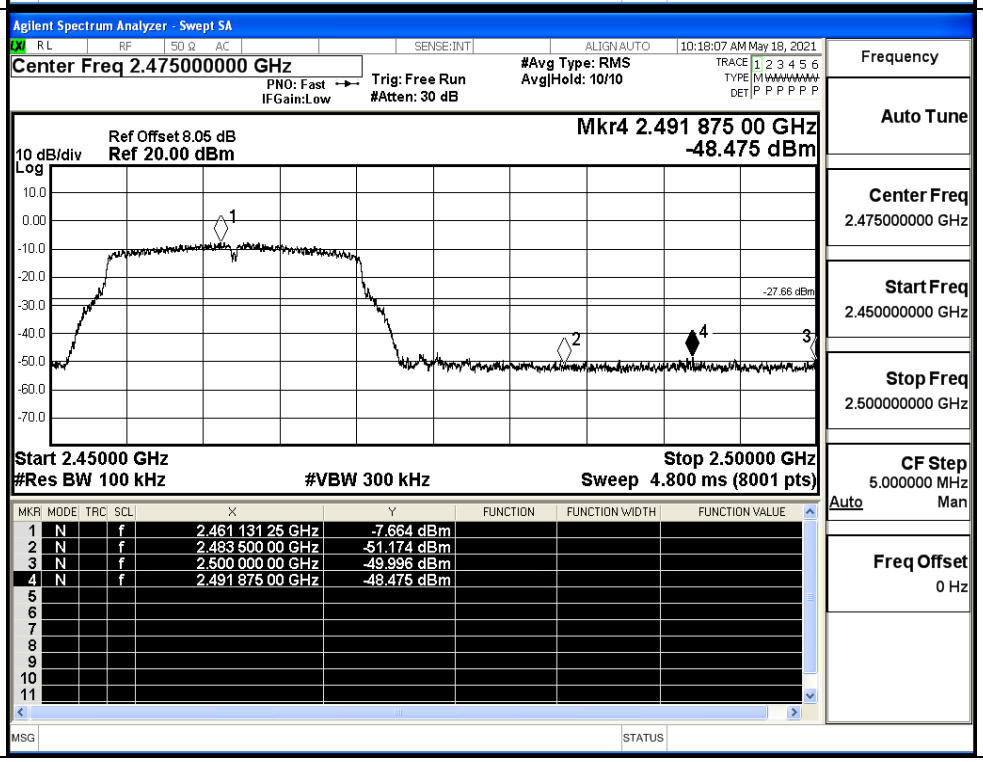
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	2.855	-49.314	-17.15	PASS
	HCH	2.775	-49.122	-17.23	PASS
11G	LCH	-5.828	-49.287	-25.83	PASS
	HCH	-7.664	-48.475	-27.66	PASS
11N20SISO	LCH	-7.191	-48.822	-27.19	PASS
	HCH	-6.862	-48.800	-26.86	PASS
11N40SISO	LCH	-9.269	-48.349	-29.27	PASS
	HCH	-7.553	-48.638	-27.55	PASS

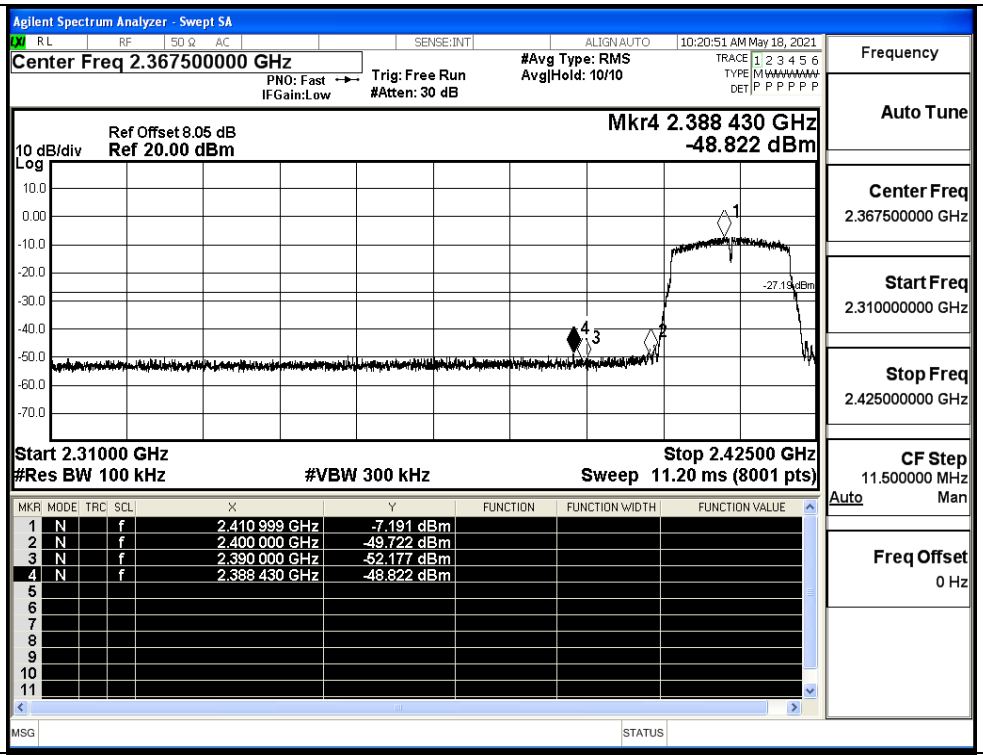
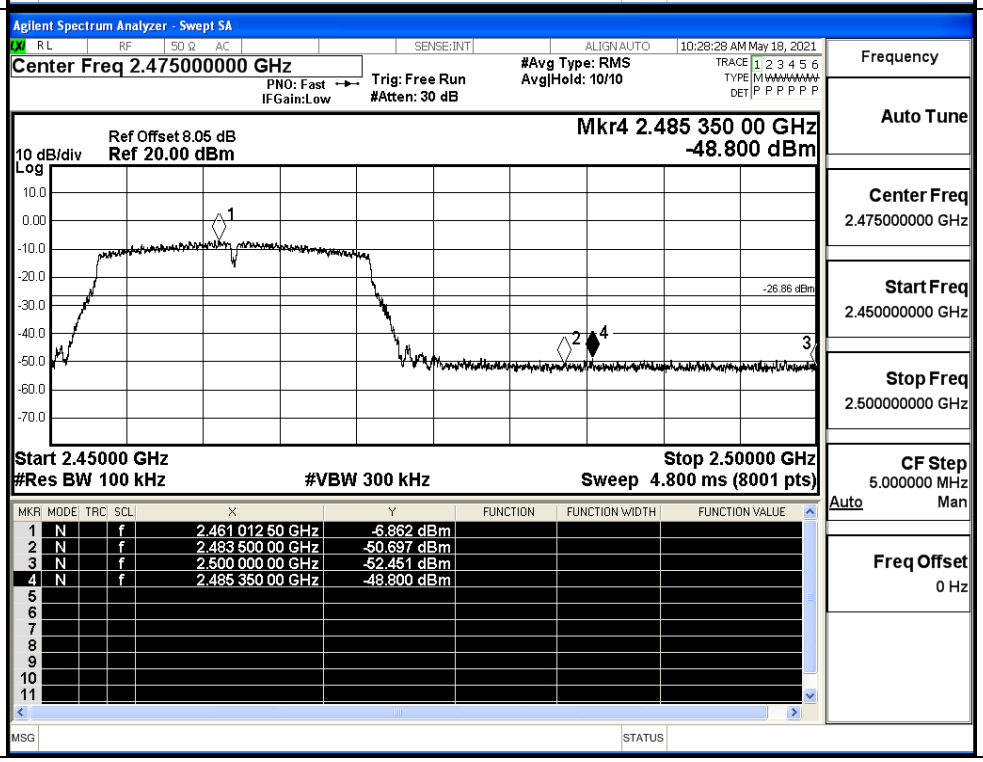
Test Graphs		
11B/LCH		
11B/HCH		

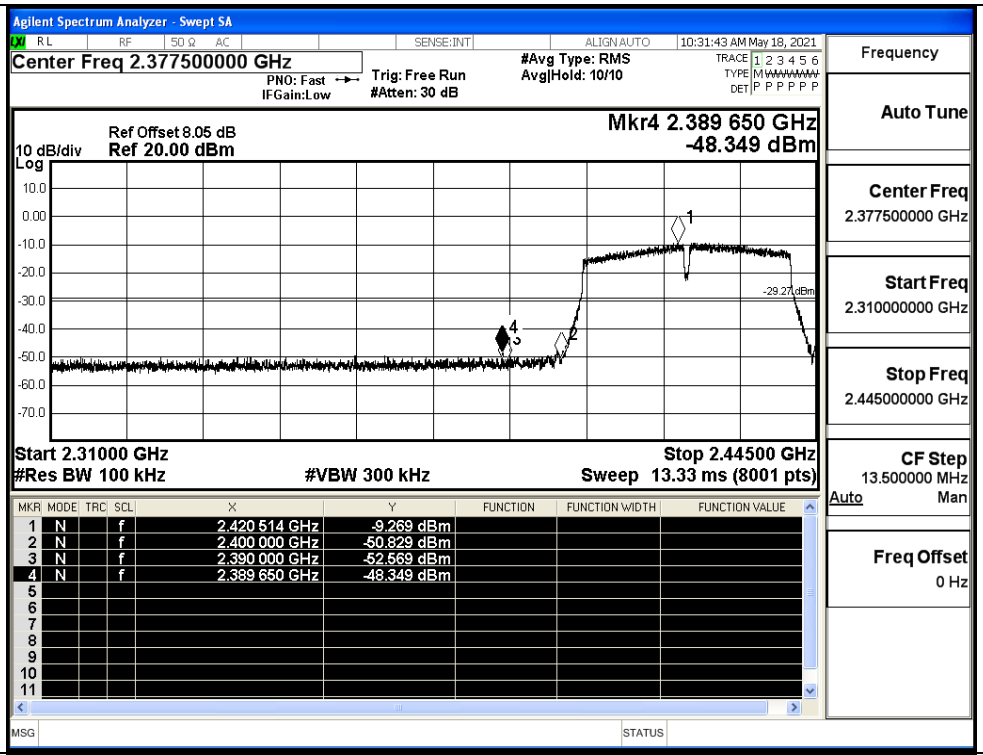
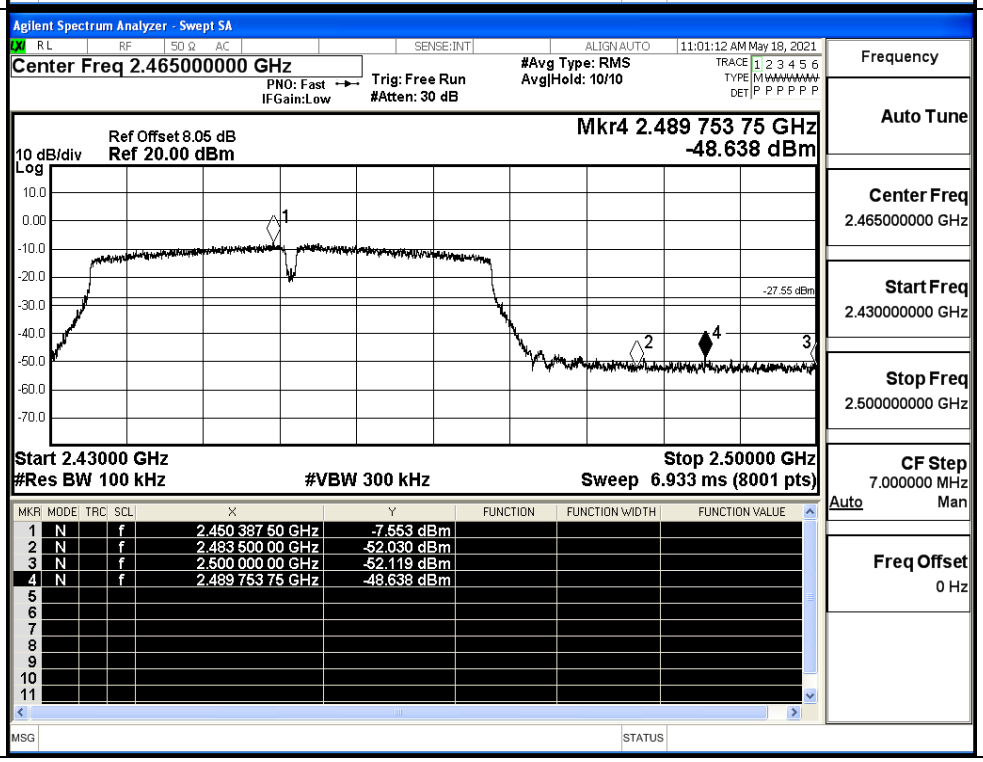
11G/LCH



11G/HCH



11N20SISO/LCH		
11N20SISO/HCH		

11N40SISO/LCH		
11N40SISO/HCH		

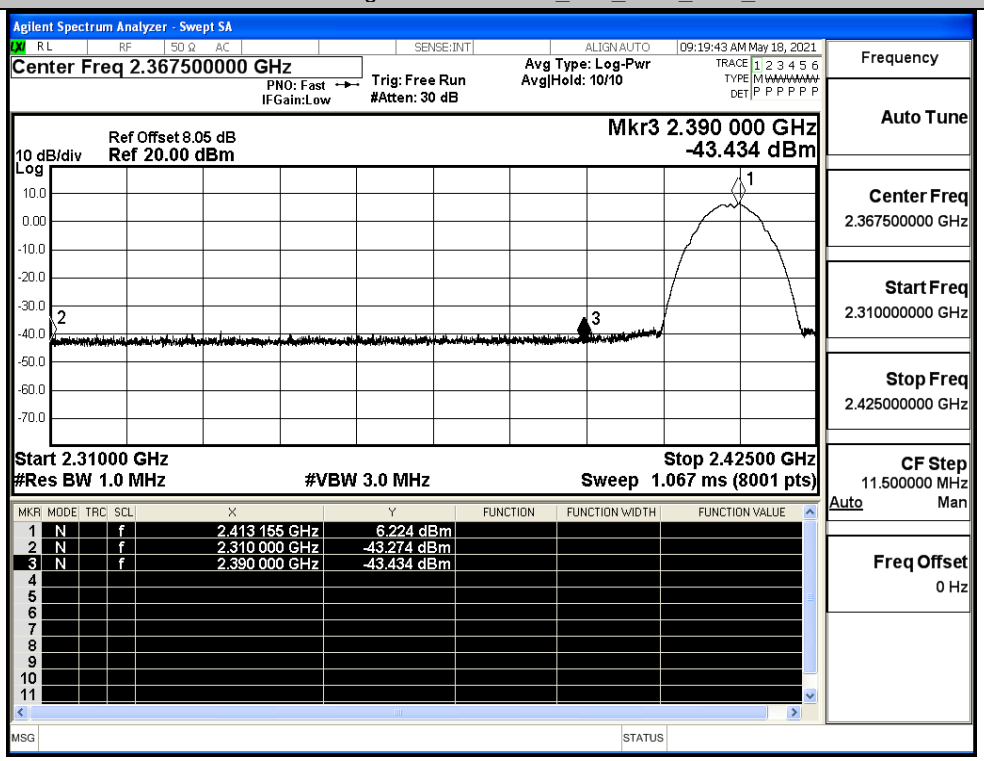
C.7 Restrict-band band-edge measurements

ANT0

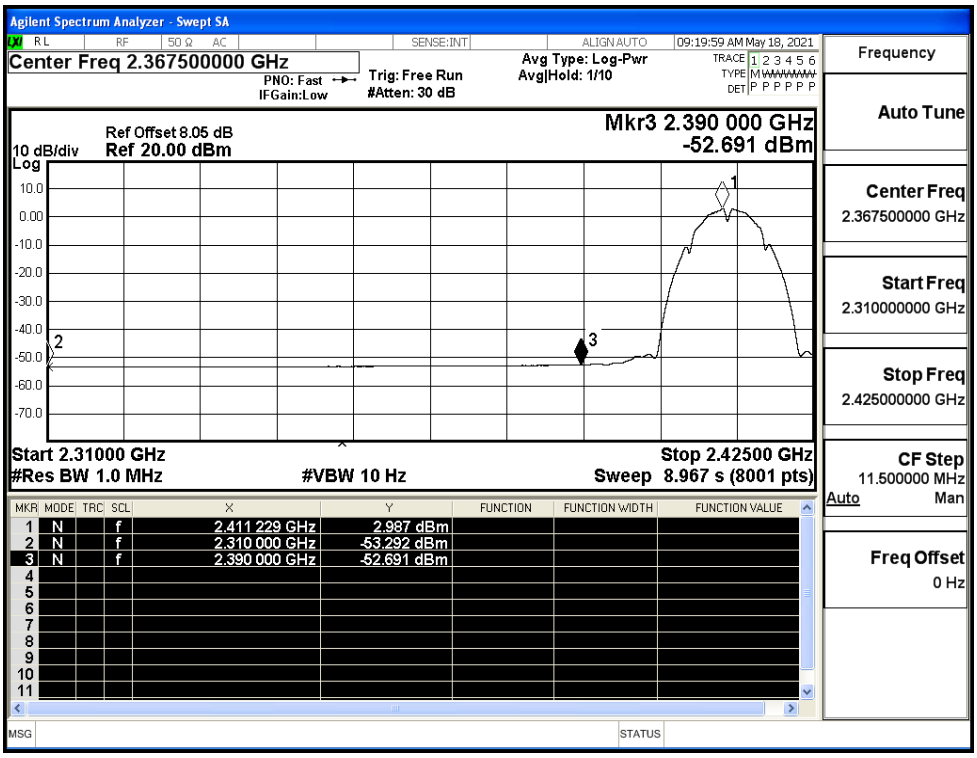
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-43.27	3.0	0	54.96	PEAK	74	PASS
	2412	Ant1	2310.0	-53.29	3.0	0	44.94	AV	54	PASS
	2412	Ant1	2390.0	-43.43	3.0	0	54.80	PEAK	74	PASS
	2412	Ant1	2390.0	-52.69	3.0	0	45.54	AV	54	PASS
	2462	Ant1	2483.5	-42.50	3.0	0	55.73	PEAK	74	PASS
	2462	Ant1	2483.5	-52.32	3.0	0	45.91	AV	54	PASS
	2462	Ant1	2500.0	-41.14	3.0	0	57.09	PEAK	74	PASS
	2462	Ant1	2500.0	-52.16	3.0	0	46.07	AV	54	PASS
11G	2412	Ant1	2310.0	-42.21	3.0	0	56.02	PEAK	74	PASS
	2412	Ant1	2310.0	-53.30	3.0	0	44.93	AV	54	PASS
	2412	Ant1	2390.0	-41.21	3.0	0	57.02	PEAK	74	PASS
	2412	Ant1	2390.0	-52.39	3.0	0	45.84	AV	54	PASS
	2462	Ant1	2483.5	-41.36	3.0	0	56.87	PEAK	74	PASS
	2462	Ant1	2483.5	-52.22	3.0	0	46.01	AV	54	PASS
	2462	Ant1	2500.0	-41.99	3.0	0	56.24	PEAK	74	PASS
	2462	Ant1	2500.0	-52.18	3.0	0	46.05	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-42.75	3.0	0	55.48	PEAK	74	PASS
	2412	Ant1	2310.0	-53.35	3.0	0	44.88	AV	54	PASS
	2412	Ant1	2390.0	-42.50	3.0	0	55.73	PEAK	74	PASS
	2412	Ant1	2390.0	-52.36	3.0	0	45.87	AV	54	PASS
	2462	Ant1	2483.5	-40.92	3.0	0	57.31	PEAK	74	PASS
	2462	Ant1	2483.5	-52.18	3.0	0	46.05	AV	54	PASS
	2462	Ant1	2500.0	-41.49	3.0	0	56.74	PEAK	74	PASS
	2462	Ant1	2500.0	-52.16	3.0	0	46.07	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-42.08	3.0	0	56.15	PEAK	74	PASS
	2422	Ant1	2310.0	-53.30	3.0	0	44.93	AV	54	PASS

	2422	Ant1	2390.0	-41.10	3.0	0	57.13	PEAK	74	PASS
	2422	Ant1	2390.0	-52.36	3.0	0	45.87	AV	54	PASS
	2452	Ant1	2483.5	-40.94	3.0	0	57.29	PEAK	74	PASS
	2452	Ant1	2483.5	-52.09	3.0	0	46.14	AV	54	PASS
	2452	Ant1	2500.0	-42.84	3.0	0	55.39	PEAK	74	PASS
	2452	Ant1	2500.0	-52.19	3.0	0	46.04	AV	54	PASS

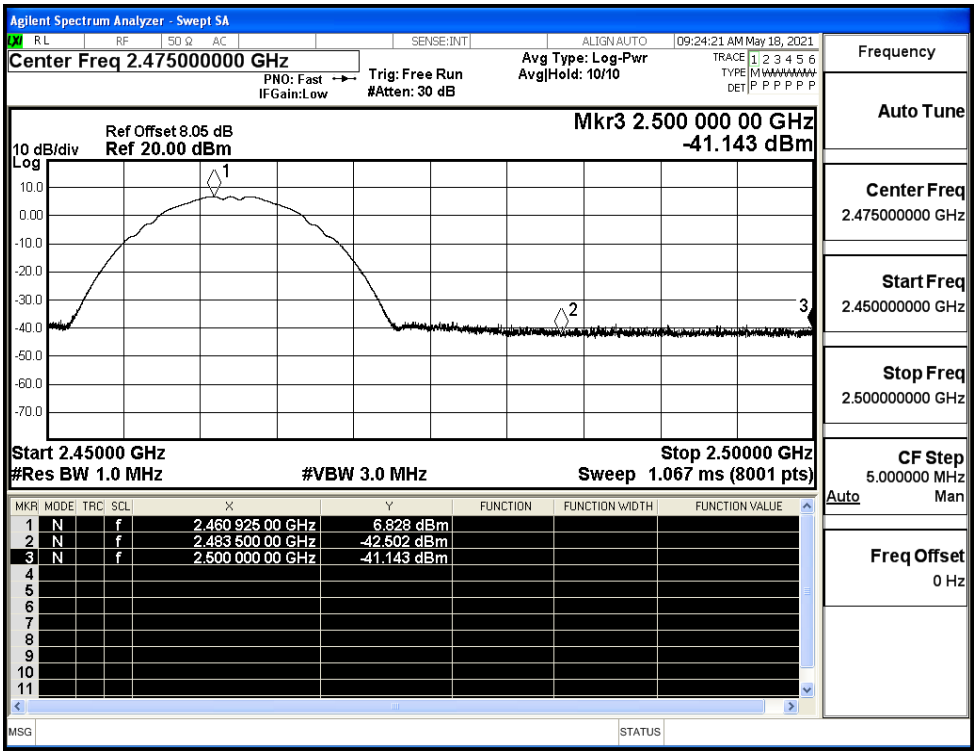
Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



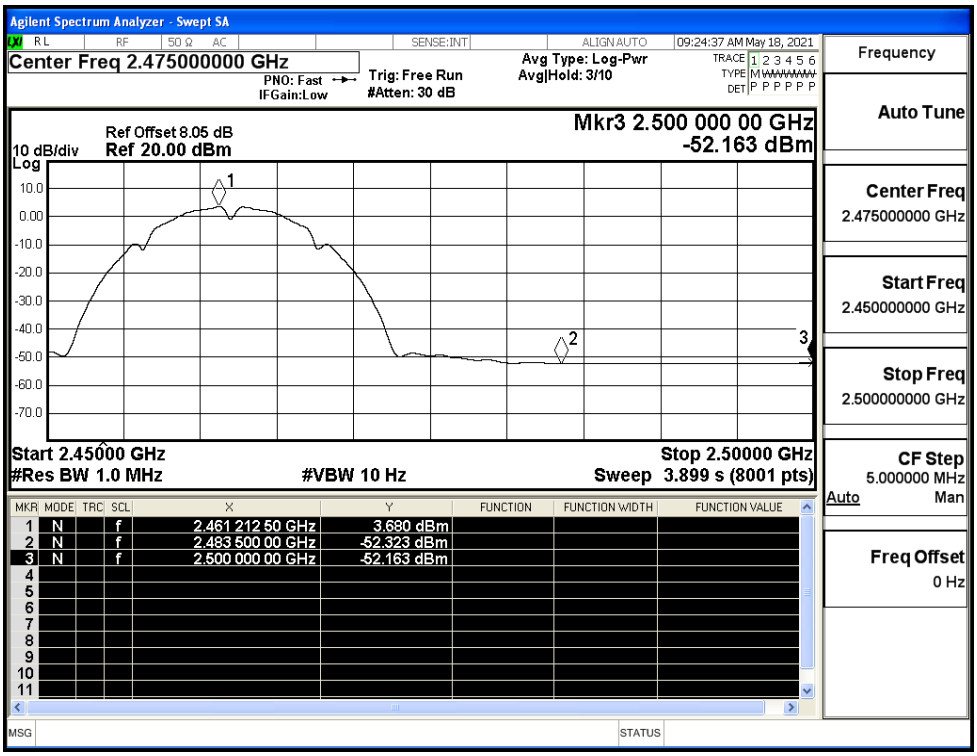
Restrict-band band-edge measurements_11B_2412_Ant1_AV



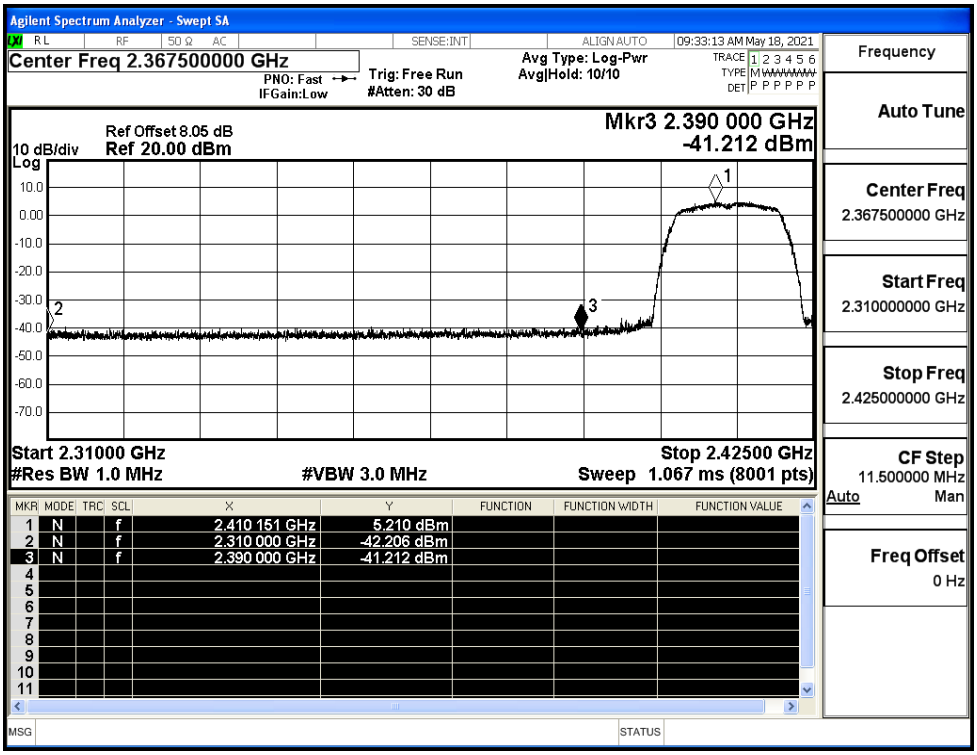
Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



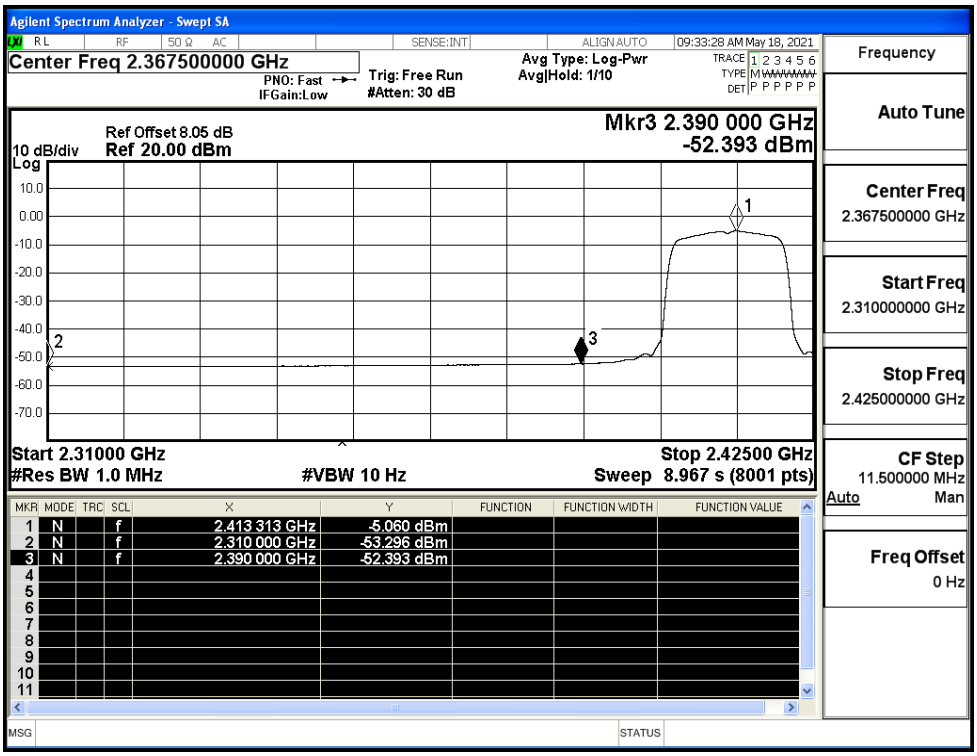
Restrict-band band-edge measurements_11B_2462_Ant1_AV



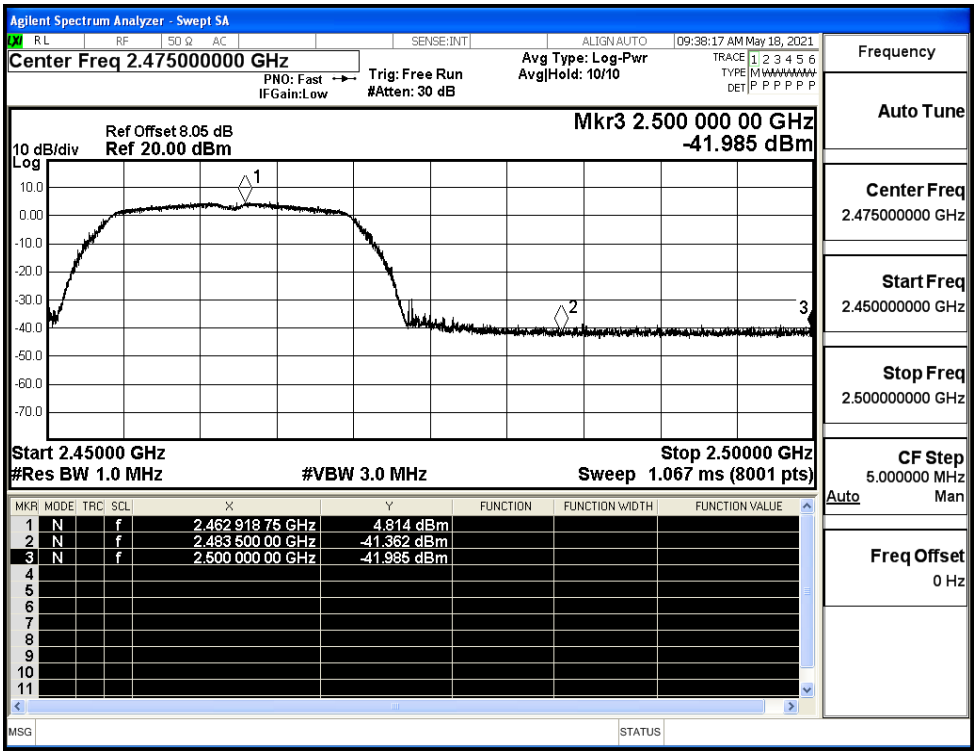
Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



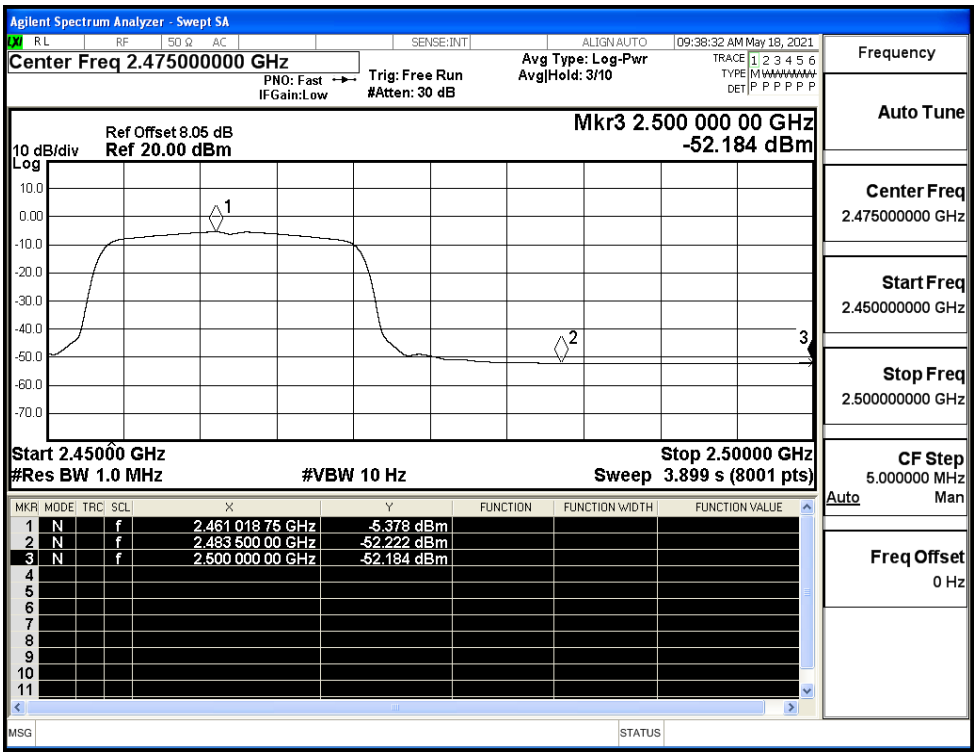
Restrict-band band-edge measurements_11G_2412_Ant1_AV



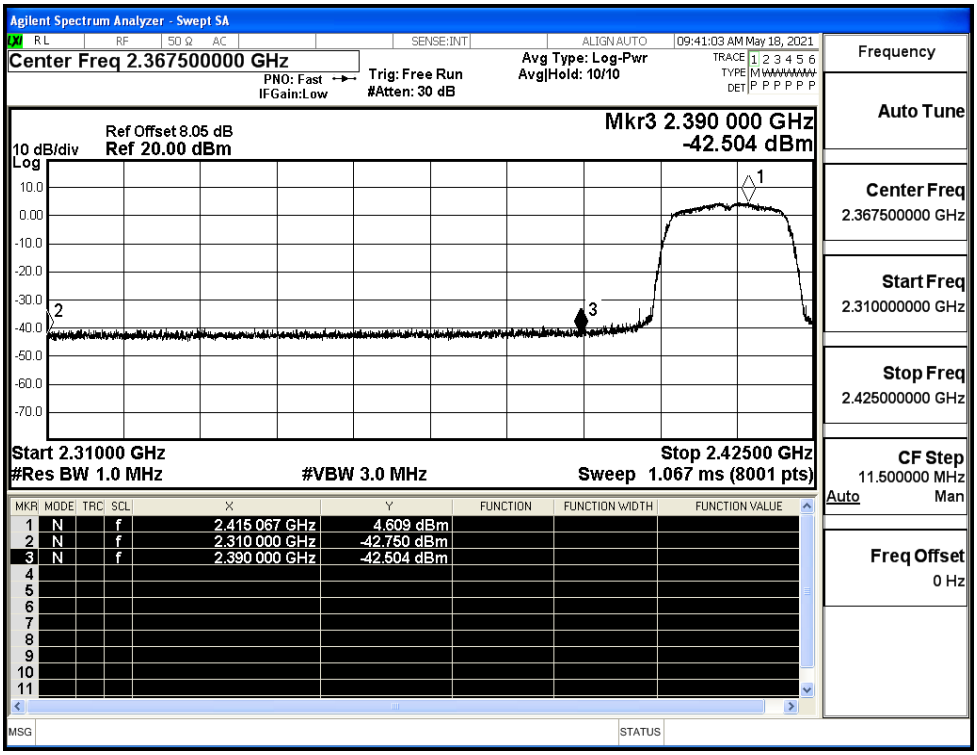
Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



Restrict-band band-edge measurements_11G_2462_Ant1_AV



Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



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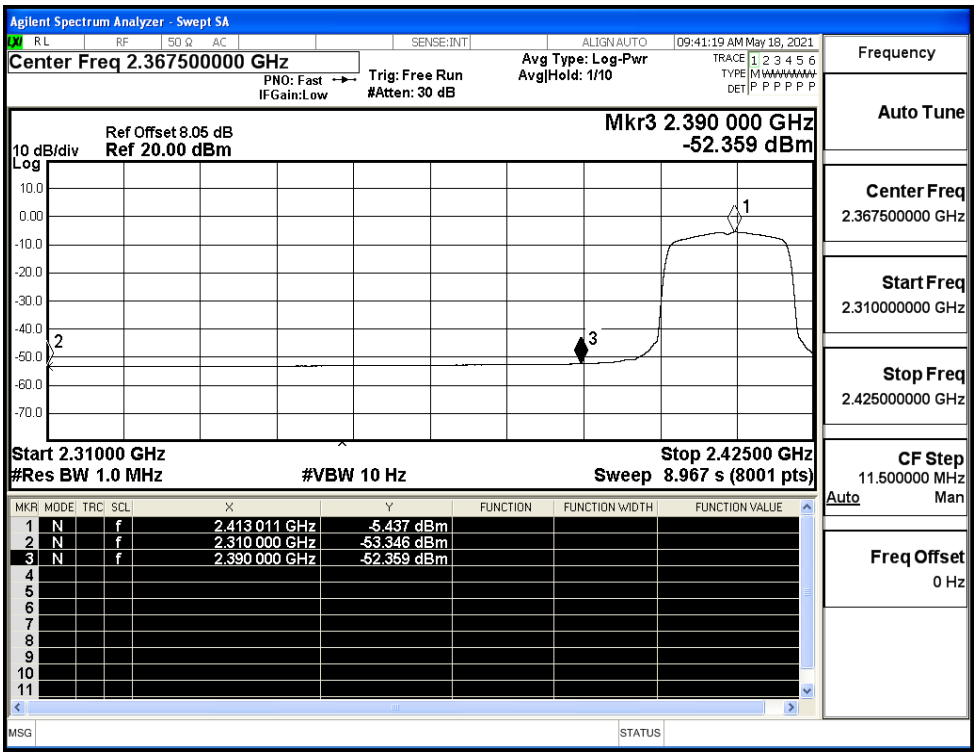

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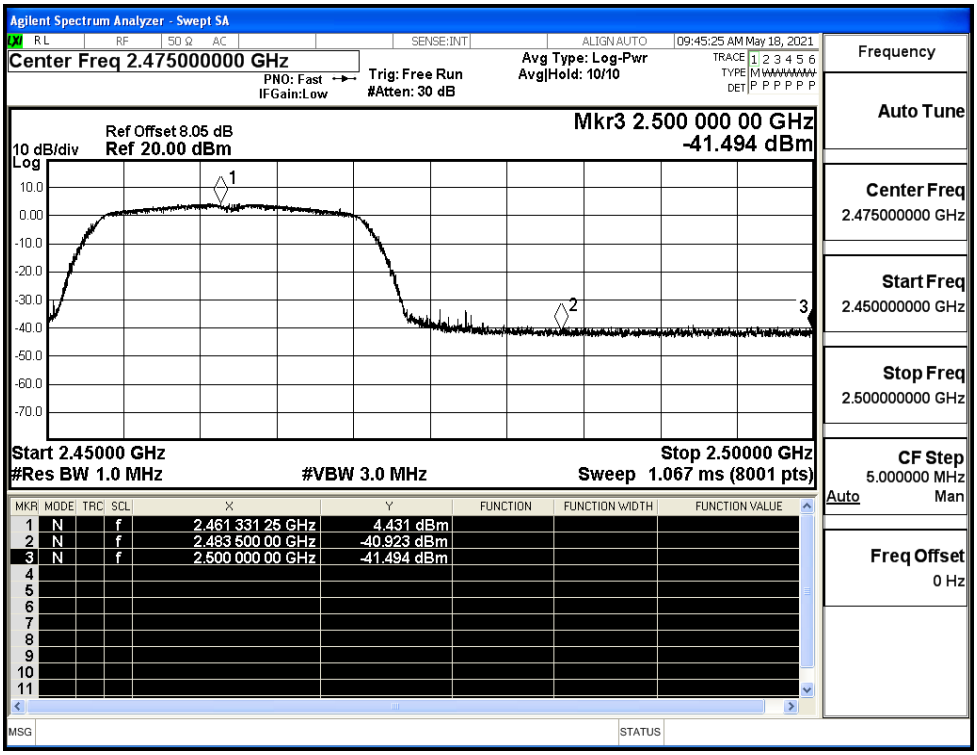
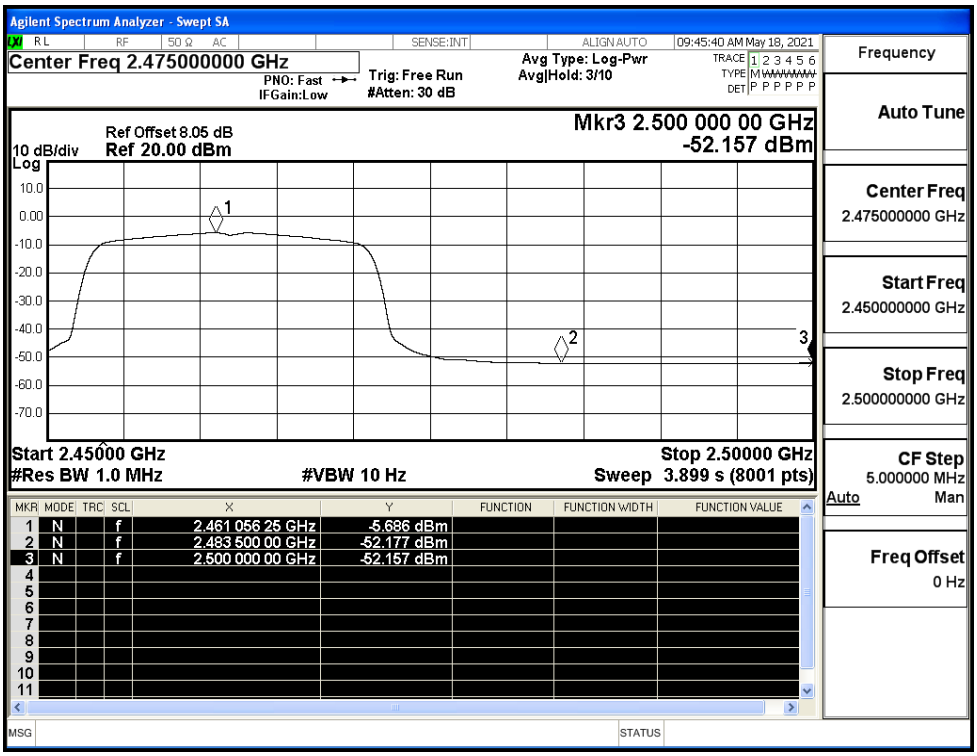


Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV



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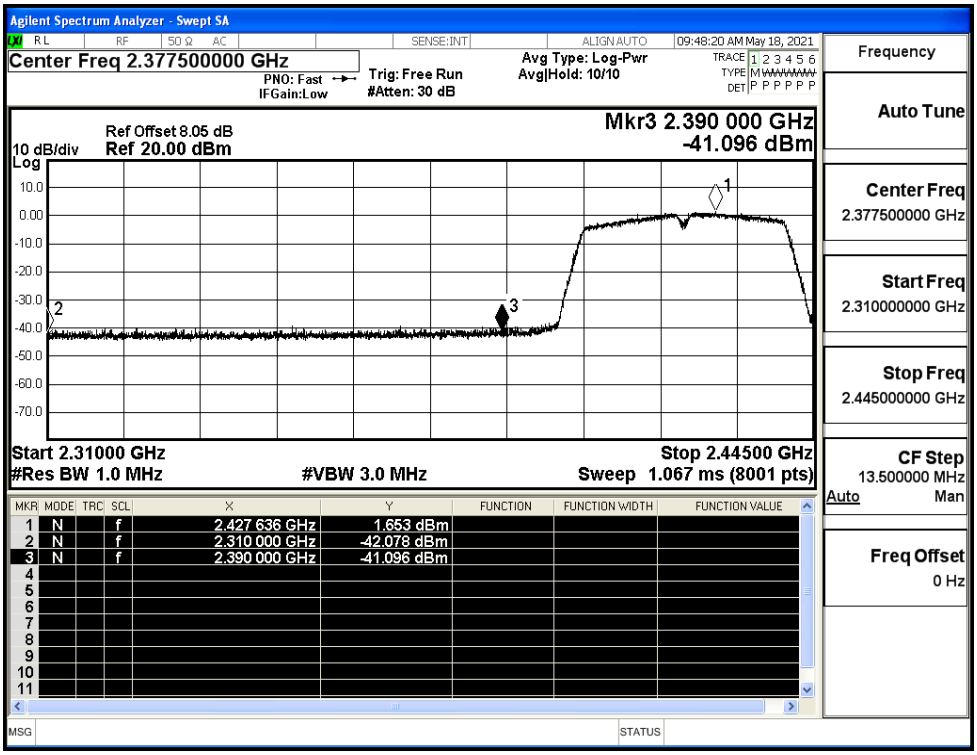
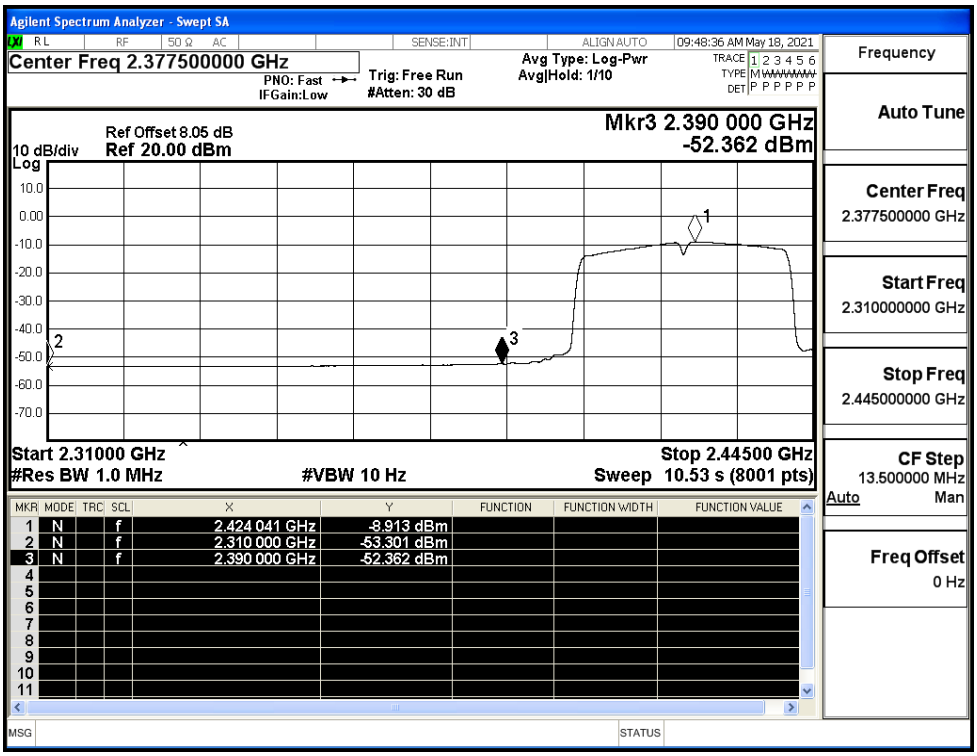


Restrict-band band-edge measurements_11N40SISO_2422_Ant1_AV



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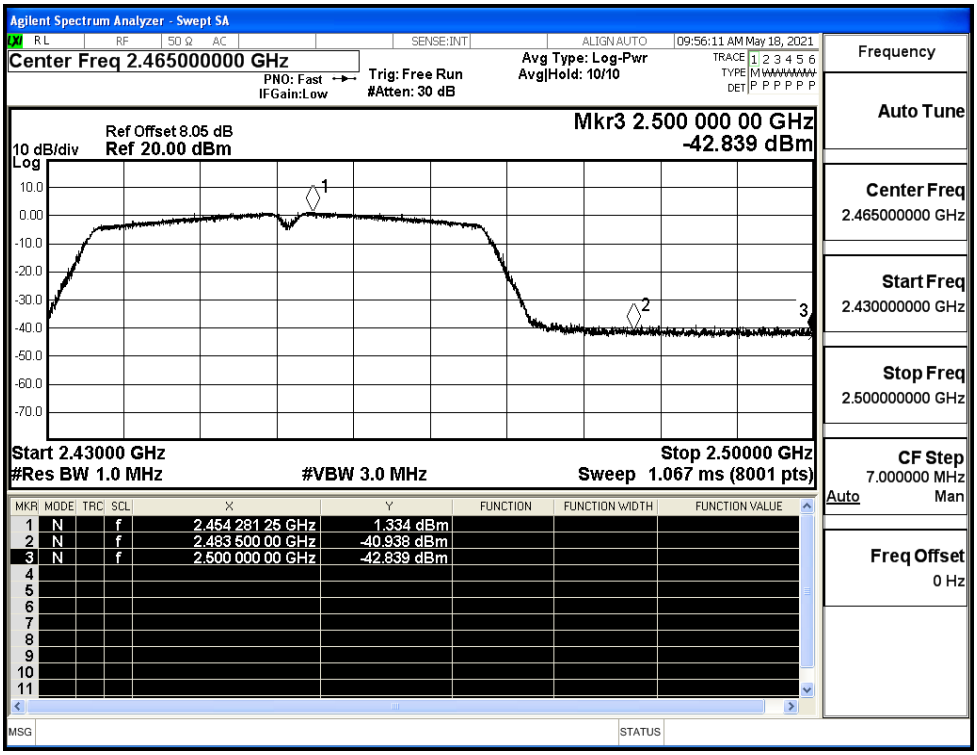

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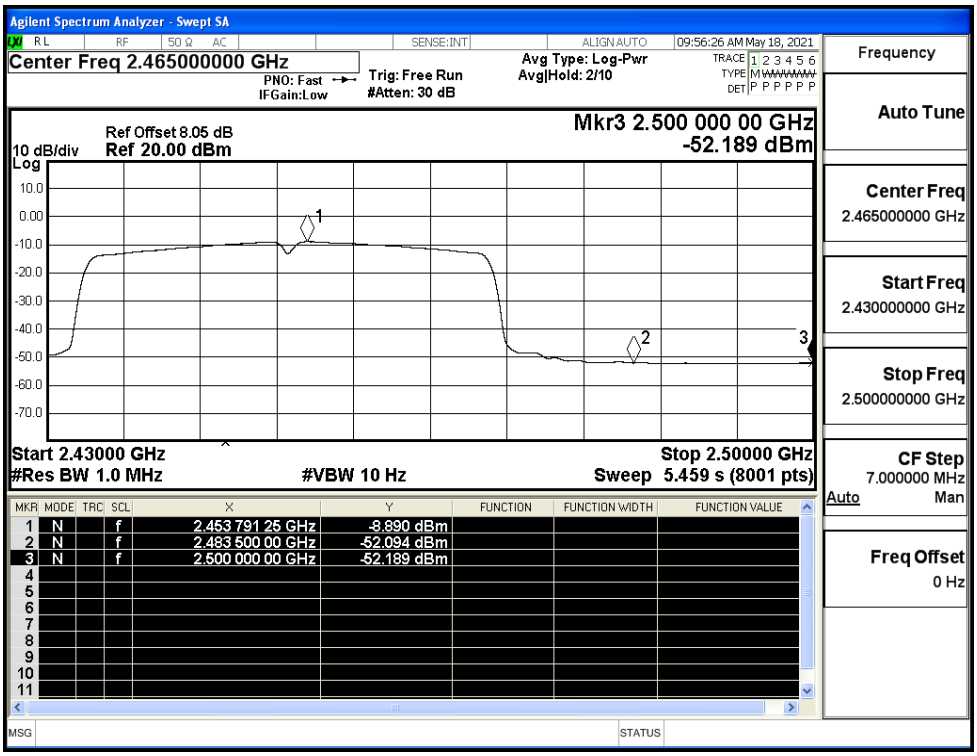
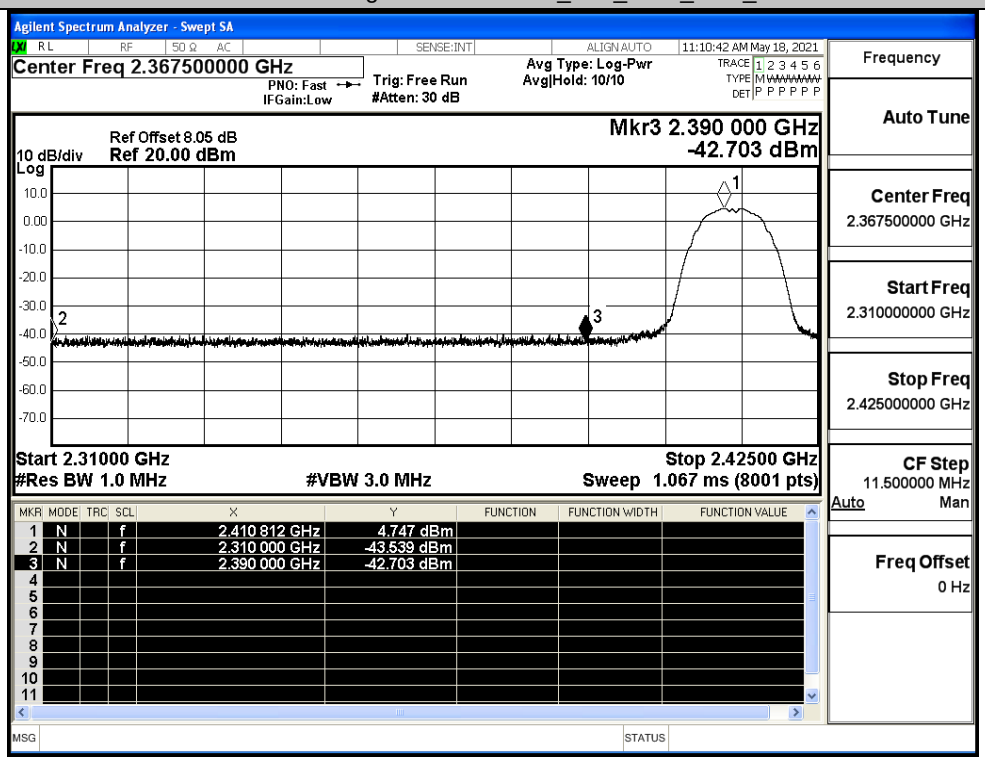


ANT1

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-43.54	3.0	0	54.69	PEAK	74	PASS
	2412	Ant1	2310.0	-53.59	3.0	0	44.64	AV	54	PASS
	2412	Ant1	2390.0	-42.70	3.0	0	55.53	PEAK	74	PASS
	2412	Ant1	2390.0	-53.17	3.0	0	45.06	AV	54	PASS
	2462	Ant1	2483.5	-41.69	3.0	0	56.54	PEAK	74	PASS
	2462	Ant1	2483.5	-52.14	3.0	0	46.09	AV	54	PASS
	2462	Ant1	2500.0	-42.80	3.0	0	55.43	PEAK	74	PASS
	2462	Ant1	2500.0	-52.57	3.0	0	45.66	AV	54	PASS
11G	2412	Ant1	2310.0	-42.55	3.0	0	55.68	PEAK	74	PASS
	2412	Ant1	2310.0	-53.55	3.0	0	44.68	AV	54	PASS
	2412	Ant1	2390.0	-42.14	3.0	0	56.09	PEAK	74	PASS
	2412	Ant1	2390.0	-52.88	3.0	0	45.35	AV	54	PASS
	2462	Ant1	2483.5	-39.76	3.0	0	58.47	PEAK	74	PASS
	2462	Ant1	2483.5	-50.63	3.0	0	47.60	AV	54	PASS
	2462	Ant1	2500.0	-42.51	3.0	0	55.72	PEAK	74	PASS
	2462	Ant1	2500.0	-52.56	3.0	0	45.67	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-43.59	3.0	0	54.64	PEAK	74	PASS
	2412	Ant1	2310.0	-53.58	3.0	0	44.65	AV	54	PASS
	2412	Ant1	2390.0	-43.18	3.0	0	55.05	PEAK	74	PASS
	2412	Ant1	2390.0	-52.82	3.0	0	45.41	AV	54	PASS
	2462	Ant1	2483.5	-33.79	3.0	0	64.44	PEAK	74	PASS
	2462	Ant1	2483.5	-50.05	3.0	0	48.18	AV	54	PASS
	2462	Ant1	2500.0	-42.39	3.0	0	55.84	PEAK	74	PASS
	2462	Ant1	2500.0	-52.63	3.0	0	45.60	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-43.82	3.0	0	54.41	PEAK	74	PASS
	2422	Ant1	2310.0	-53.60	3.0	0	44.63	AV	54	PASS
	2422	Ant1	2390.0	-41.77	3.0	0	56.46	PEAK	74	PASS
	2422	Ant1	2390.0	-52.89	3.0	0	45.34	AV	54	PASS

	2452	Ant1	2483.5	-28.79	3.0	0	69.44	PEAK	74	PASS
	2452	Ant1	2483.5	-49.54	3.0	0	48.69	AV	54	PASS
	2452	Ant1	2500.0	-43.48	3.0	0	54.75	PEAK	74	PASS
	2452	Ant1	2500.0	-52.56	3.0	0	45.67	AV	54	PASS

Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



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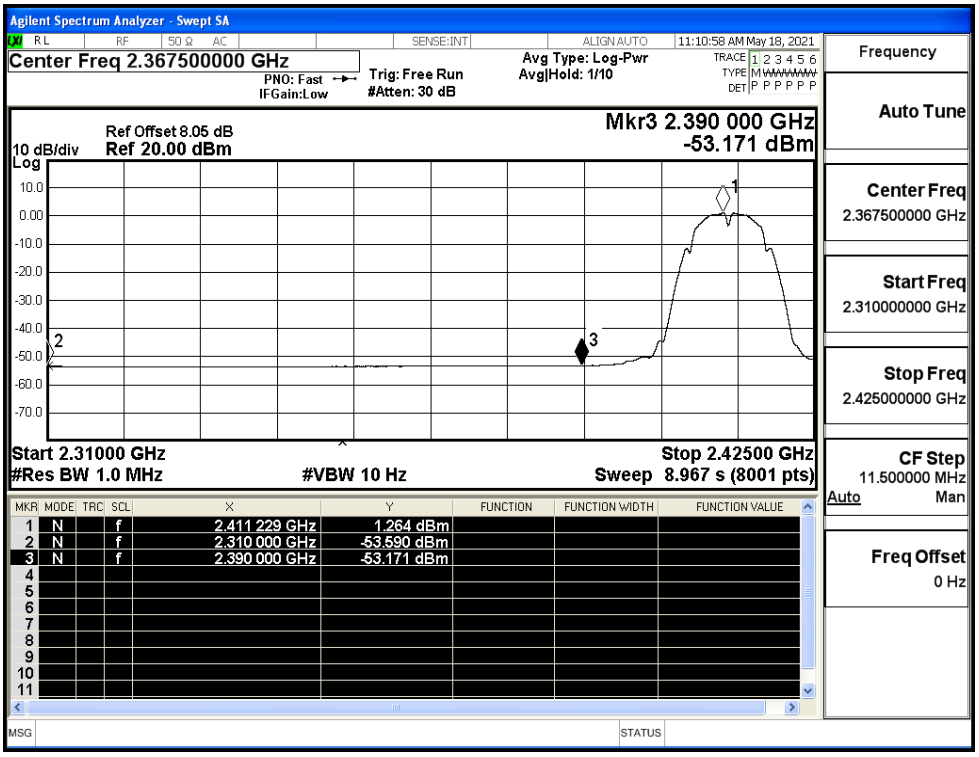
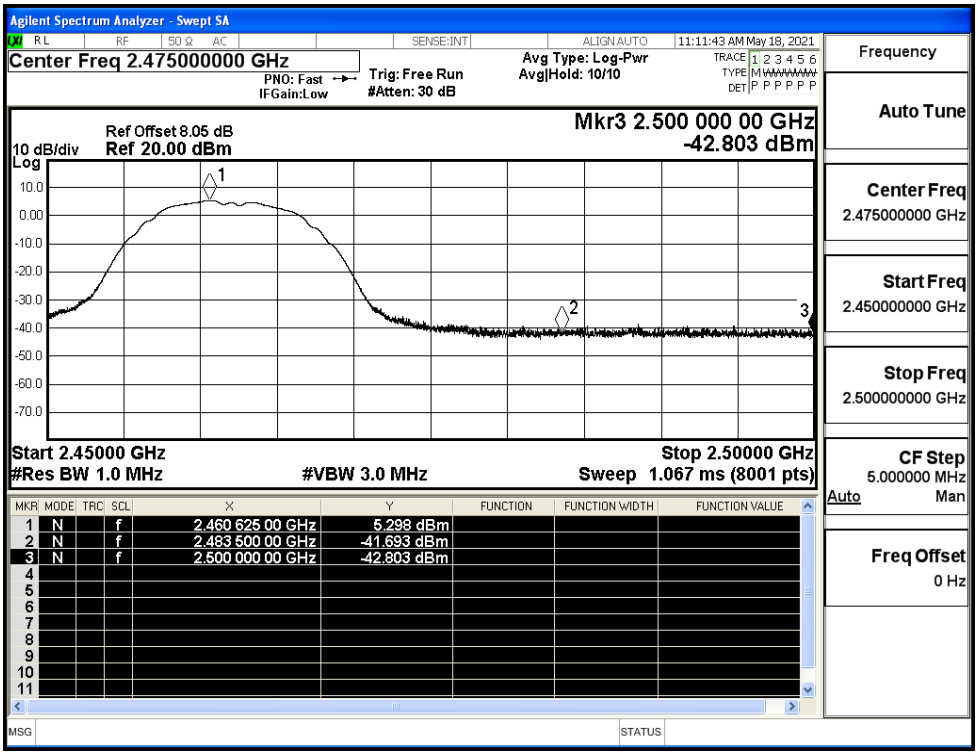
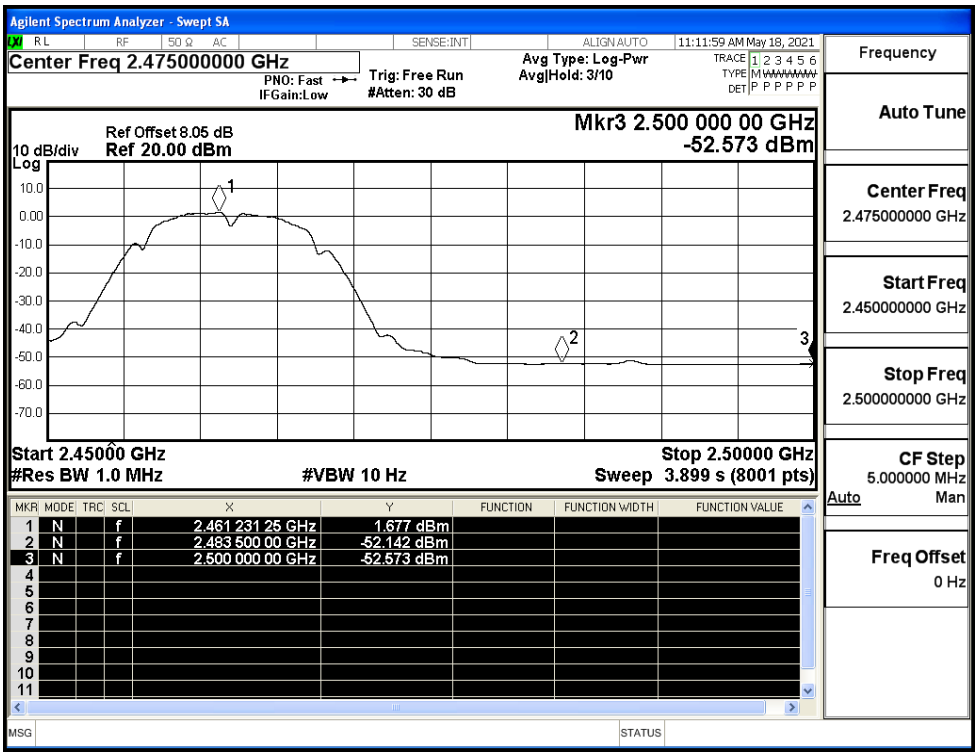


Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



Restrict-band band-edge measurements_11B_2462_Ant1_AV



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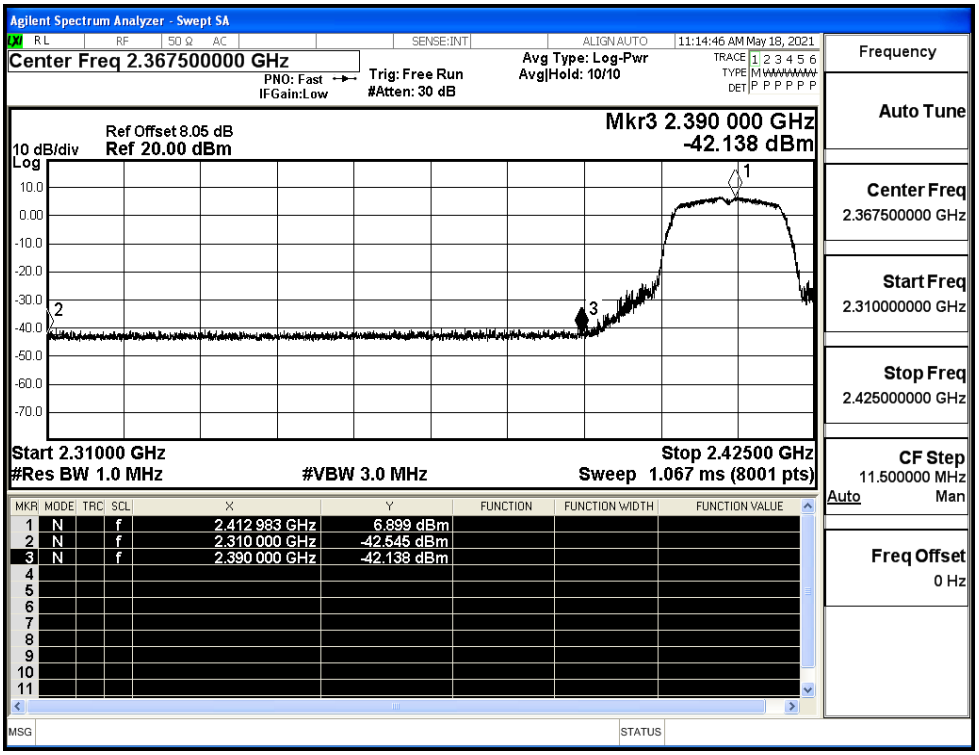
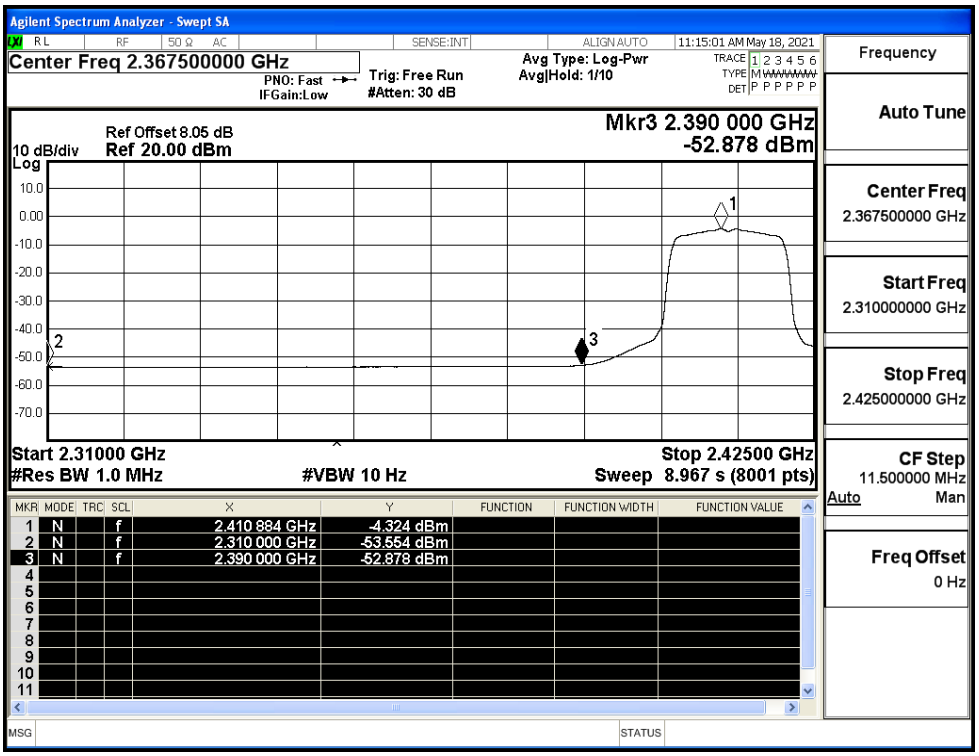


Restrict-band band-edge measurements_11G_2412_Ant1_AV



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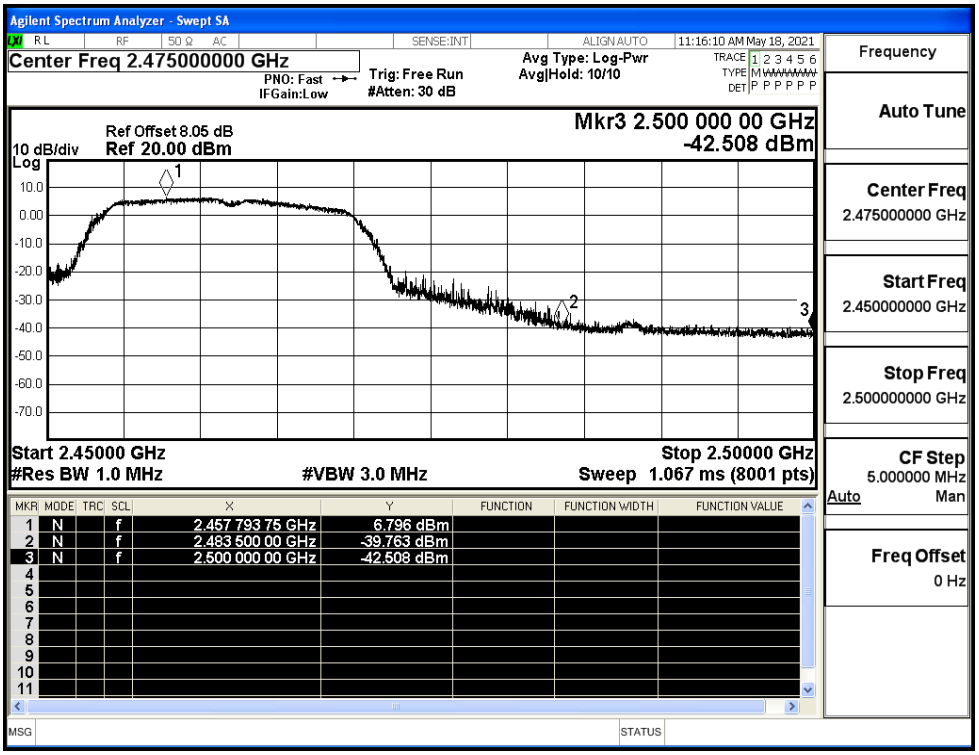

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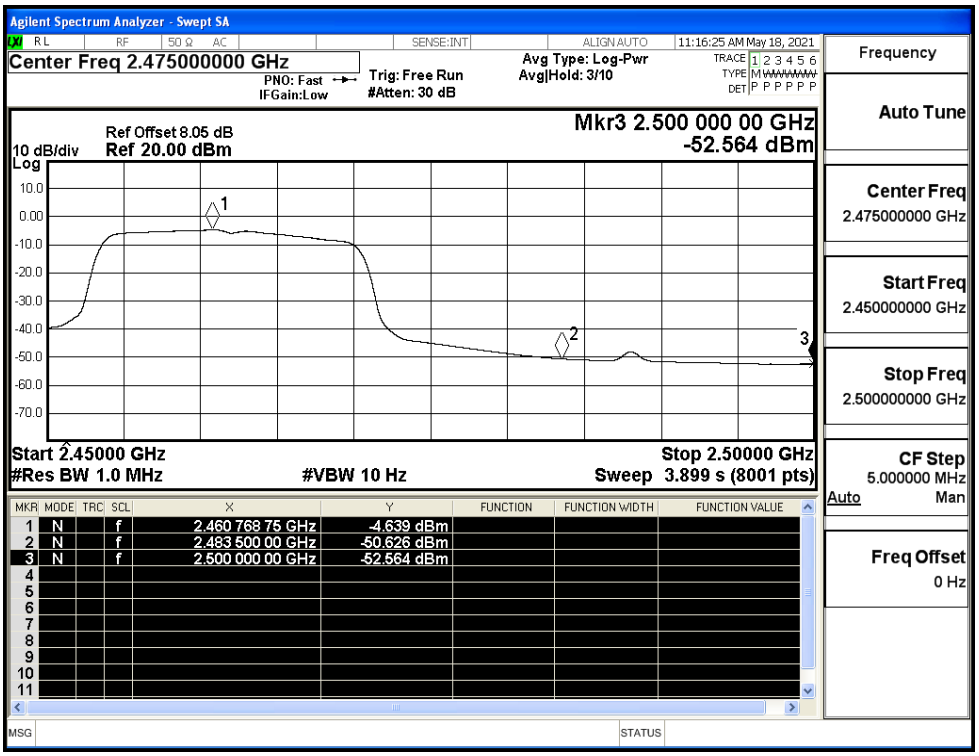
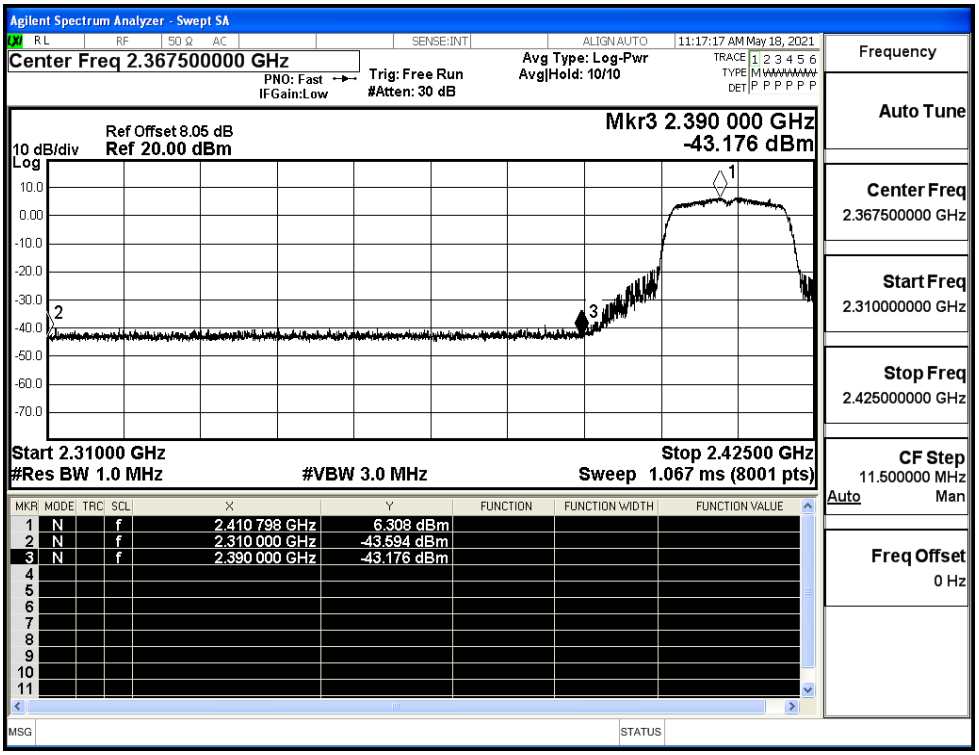


Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



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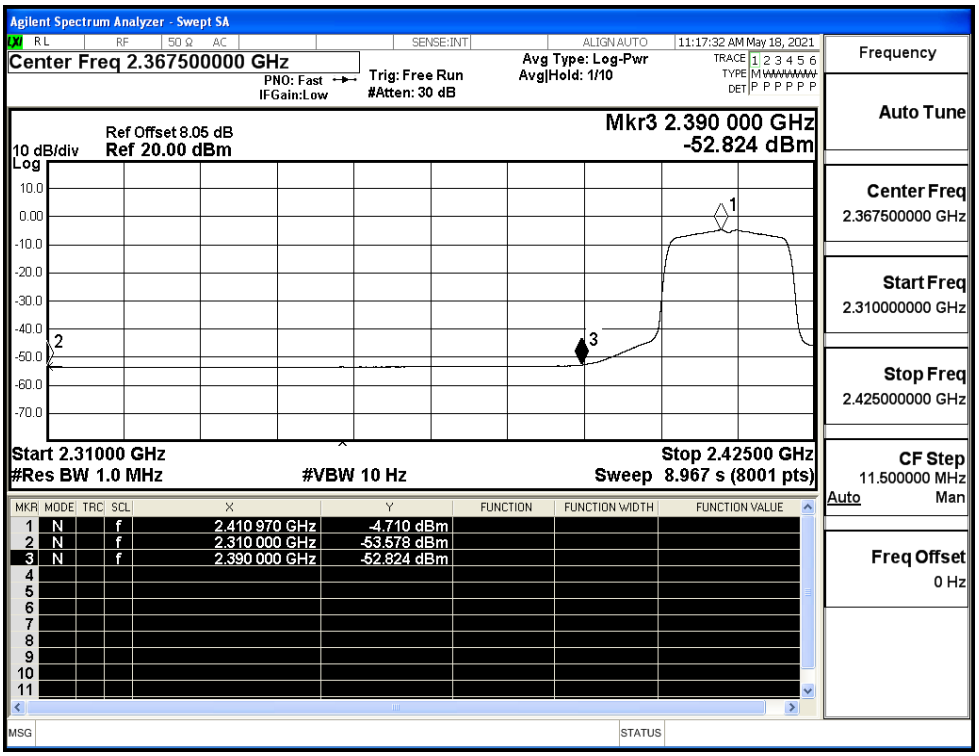
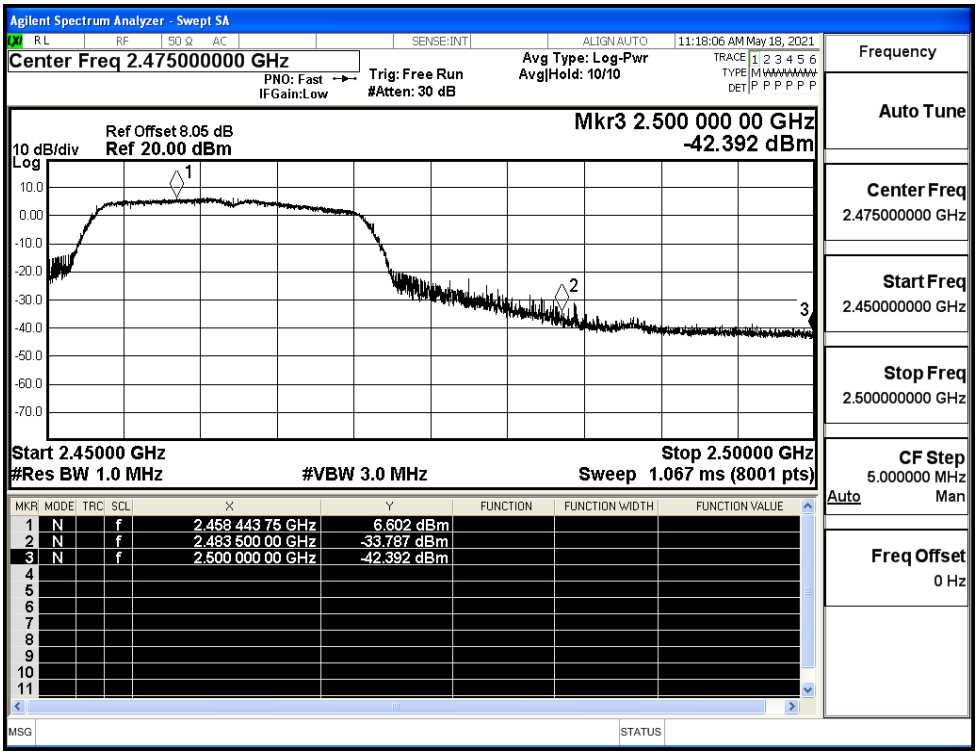
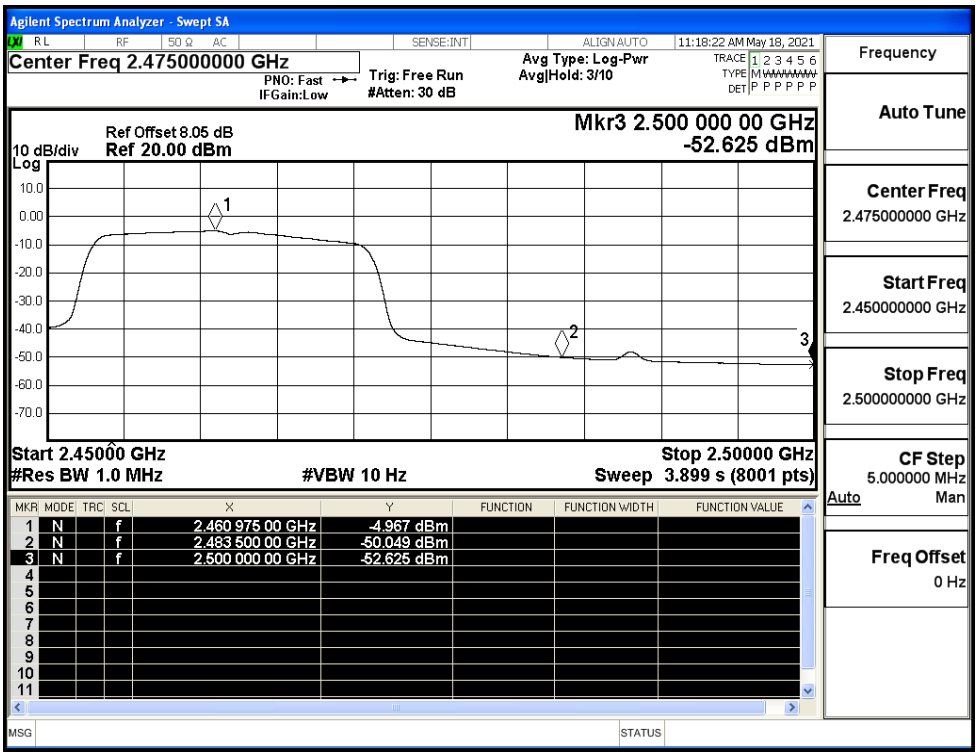


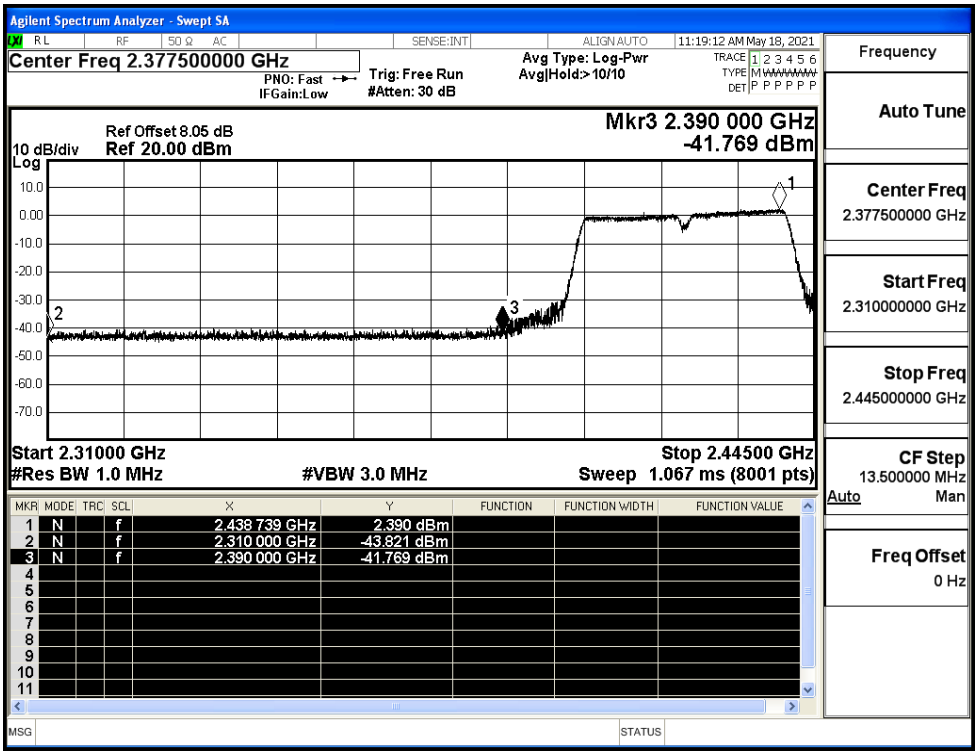
Restrict-band band-edge measurements_11N20SISO_2462_Ant1_PEAK



Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV



Restrict-band band-edge measurements_11N40SISO_2422_Ant1_PEAK



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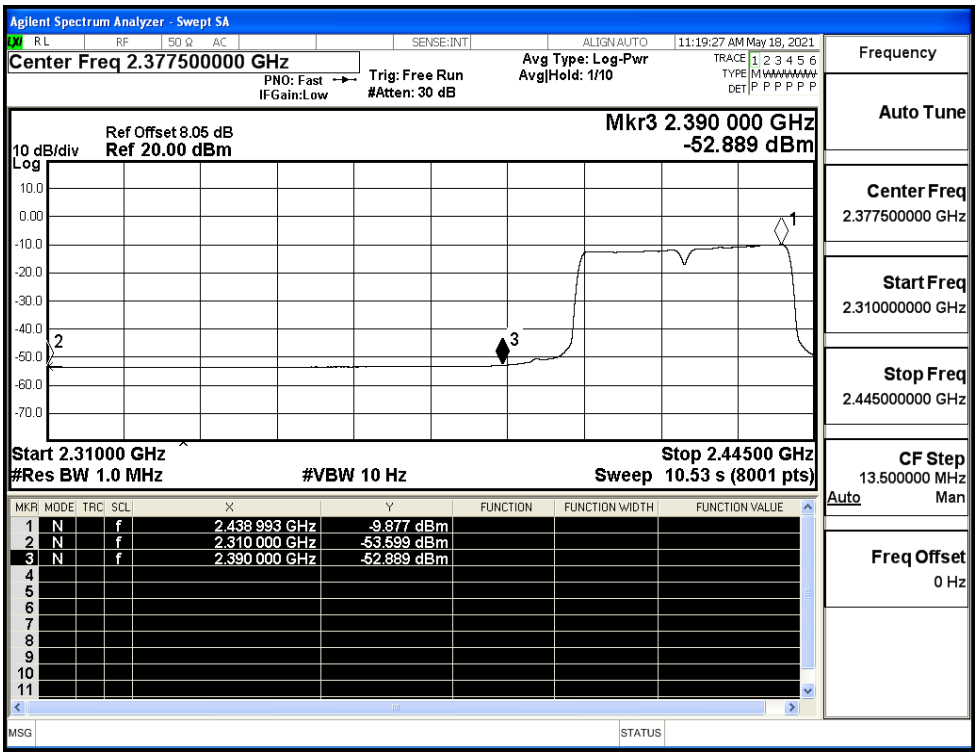
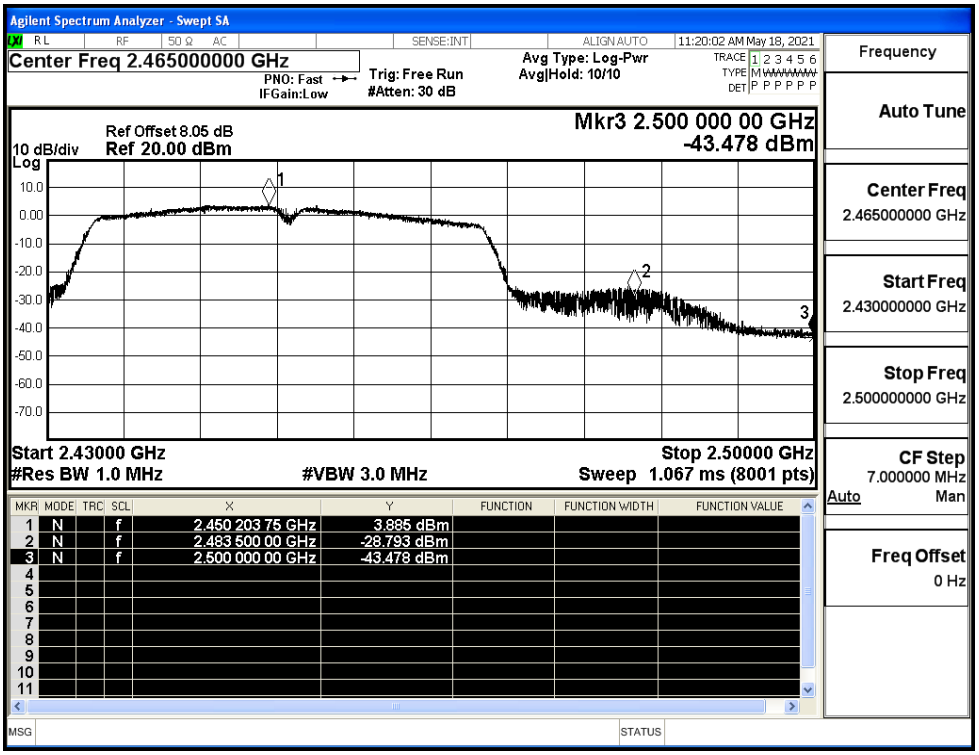
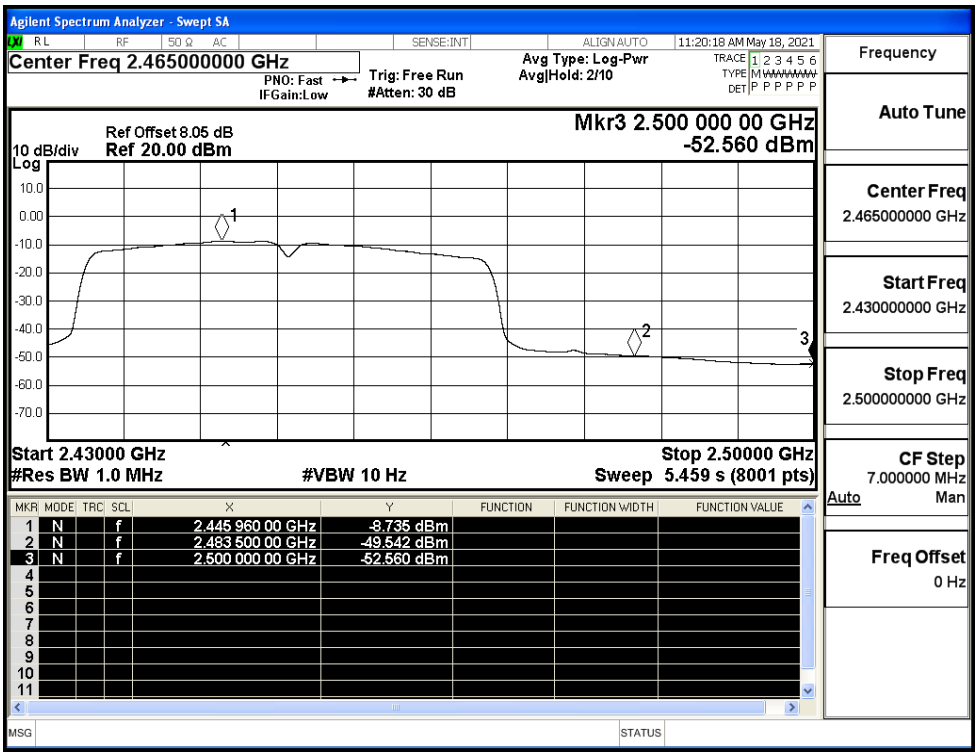


Restrict-band band-edge measurements_11N40SISO_2452_Ant1_PEAK



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_AV



MIMO

Test Mode	Test Channel	Freq.	ANT 0 Power [dBm]	ANT 1 Power [dBm]	MIMO Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11N20	2412	2310.0	-42.75	-43.59	-40.14	6.01	0	61.10	PEAK	74	PASS
	2412	2310.0	-53.35	-53.58	-50.45	6.01	0	50.79	AV	54	PASS
	2412	2390.0	-42.5	-43.18	-39.82	6.01	0	61.42	PEAK	74	PASS
	2412	2390.0	-52.36	-52.82	-49.57	6.01	0	51.67	AV	54	PASS
	2462	2483.5	-40.92	-33.79	-33.02	6.01	0	68.22	PEAK	74	PASS
	2462	2483.5	-52.18	-50.05	-47.98	6.01	0	53.26	AV	54	PASS
	2462	2500.0	-41.49	-42.39	-38.91	6.01	0	62.33	PEAK	74	PASS
	2462	2500.0	-52.16	-52.63	-49.38	6.01	0	51.86	AV	54	PASS
11N40	2422	2310.0	-42.08	-43.82	-39.85	6.01	0	61.39	PEAK	74	PASS
	2422	2310.0	-53.3	-53.6	-50.44	6.01	0	50.80	AV	54	PASS
	2422	2390.0	-41.1	-41.77	-38.41	6.01	0	62.83	PEAK	74	PASS
	2422	2390.0	-52.36	-52.89	-49.61	6.01	0	51.63	AV	54	PASS
	2452	2483.5	-40.94	-28.79	-28.53	6.01	0	72.71	PEAK	74	PASS
	2452	2483.5	-52.09	-49.54	-47.62	6.01	0	53.62	AV	54	PASS
	2452	2500.0	-42.84	-43.48	-40.14	6.01	0	61.10	PEAK	74	PASS
	2452	2500.0	-52.19	-52.56	-49.36	6.01	0	51.88	AV	54	PASS

The upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands or 2 dBi, whichever is greater

Directional gain=3dBi+10 log (2) = 6.01dBi