Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: WiFi Pineapple

Test Model: MK7E

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Mark Chen
Supervised by:	Lihn

A.1 6dB Bandwidth

Test Result

ANT0

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant0	2412	10.000	2407.040	2417.040	0.5	PASS
		2437	10.040	2432.000	2442.040	0.5	PASS
		2462	10.080	2457.000	2467.080	0.5	PASS
11G	Ant0	2412	16.280	2403.880	2420.160	0.5	PASS
		2437	16.280	2428.880	2445.160	0.5	PASS
		2462	16.280	2453.880	2470.160	0.5	PASS
11N20SISO	Ant0	2412	17.280	2403.280	2420.560	0.5	PASS
		2437	17.040	2428.520	2445.560	0.5	PASS
		2462	17.000	2453.520	2470.520	0.5	PASS
11N40SISO	Ant0	2422	35.280	2404.320	2439.600	0.5	PASS
		2437	35.440	2419.160	2454.600	0.5	PASS
		2452	35.360	2434.240	2469.600	0.5	PASS

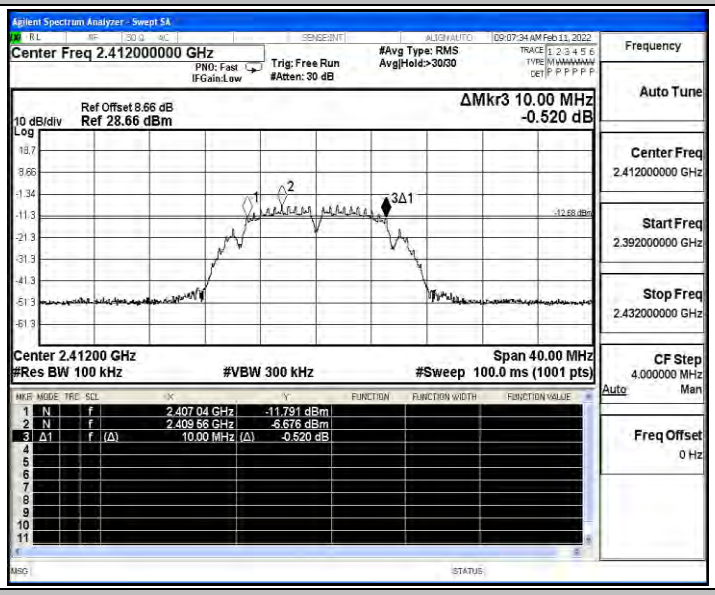
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.040	2407.000	2417.040	0.5	PASS
		2437	10.040	2432.000	2442.040	0.5	PASS
		2462	10.040	2457.000	2467.040	0.5	PASS
11G	Ant1	2412	16.280	2403.880	2420.160	0.5	PASS
		2437	16.320	2428.880	2445.200	0.5	PASS
		2462	16.280	2453.880	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.040	2403.520	2420.560	0.5	PASS
		2437	17.240	2428.280	2445.520	0.5	PASS
		2462	17.120	2453.280	2470.400	0.5	PASS
11N40SISO	Ant1	2422	35.440	2404.160	2439.600	0.5	PASS
		2437	35.440	2419.160	2454.600	0.5	PASS
		2452	35.440	2434.160	2469.600	0.5	PASS

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant2	2412	10.000	2407.040	2417.040	0.5	PASS
		2437	10.040	2432.040	2442.080	0.5	PASS
		2462	10.040	2457.000	2467.040	0.5	PASS
11G	Ant2	2412	16.320	2403.880	2420.200	0.5	PASS
		2437	16.280	2428.880	2445.160	0.5	PASS
		2462	16.280	2453.880	2470.160	0.5	PASS
11N20SISO	Ant2	2412	17.080	2403.480	2420.560	0.5	PASS
		2437	17.240	2428.280	2445.520	0.5	PASS
		2462	17.280	2453.280	2470.560	0.5	PASS
11N40SISO	Ant2	2422	35.120	2404.480	2439.600	0.5	PASS
		2437	35.360	2419.240	2454.600	0.5	PASS
		2452	35.440	2434.160	2469.600	0.5	PASS

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant3	2412	10.080	2407.000	2417.080	0.5	PASS
		2437	10.040	2432.000	2442.040	0.5	PASS
		2462	10.000	2457.040	2467.040	0.5	PASS
11G	Ant3	2412	16.280	2403.880	2420.160	0.5	PASS
		2437	16.280	2428.880	2445.160	0.5	PASS
		2462	16.080	2453.880	2469.960	0.5	PASS
11N20SISO	Ant3	2412	17.280	2403.280	2420.560	0.5	PASS
		2437	17.280	2428.280	2445.560	0.5	PASS
		2462	17.160	2453.280	2470.440	0.5	PASS
11N40SISO	Ant3	2422	35.280	2404.320	2439.600	0.5	PASS
		2437	35.360	2419.240	2454.600	0.5	PASS
		2452	35.440	2434.160	2469.600	0.5	PASS

Test Graphs

11B_Ant0_2412



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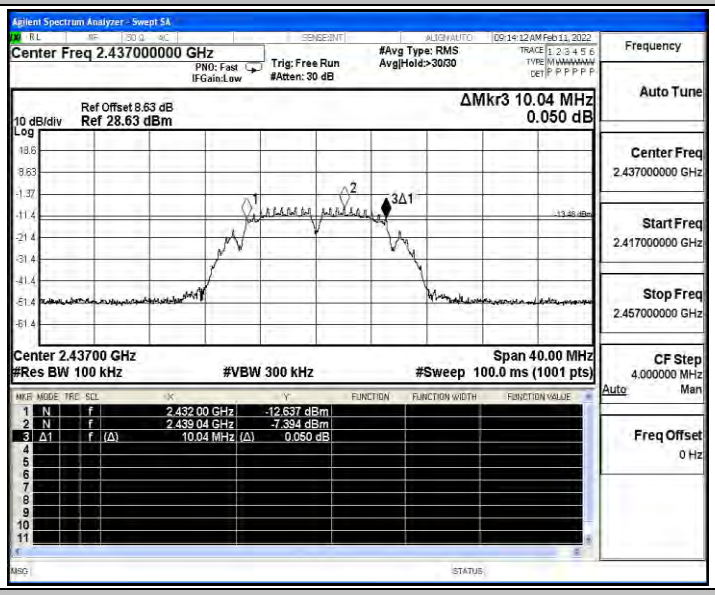

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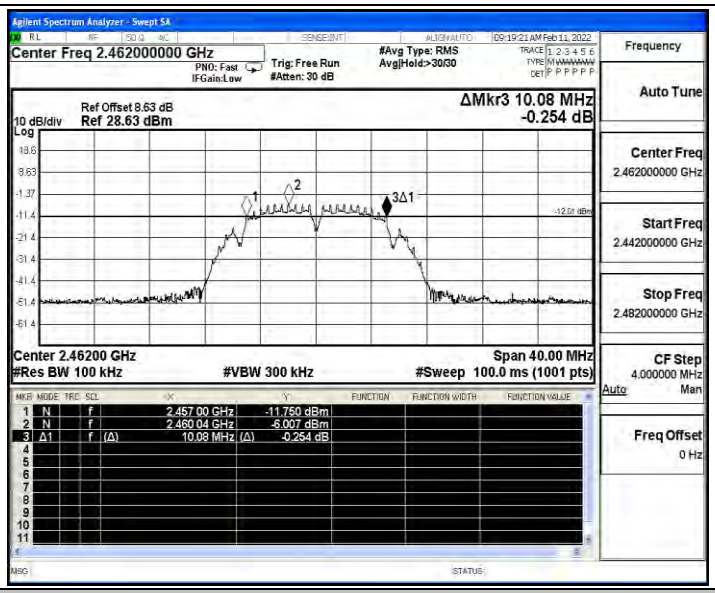

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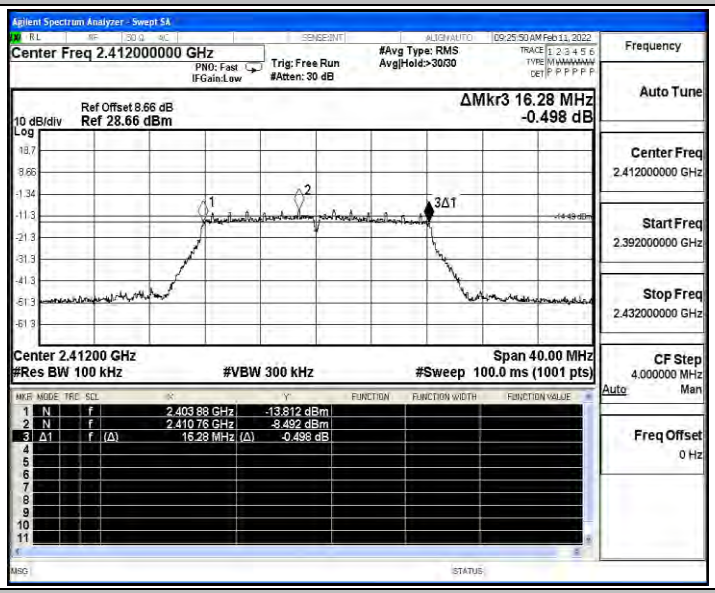

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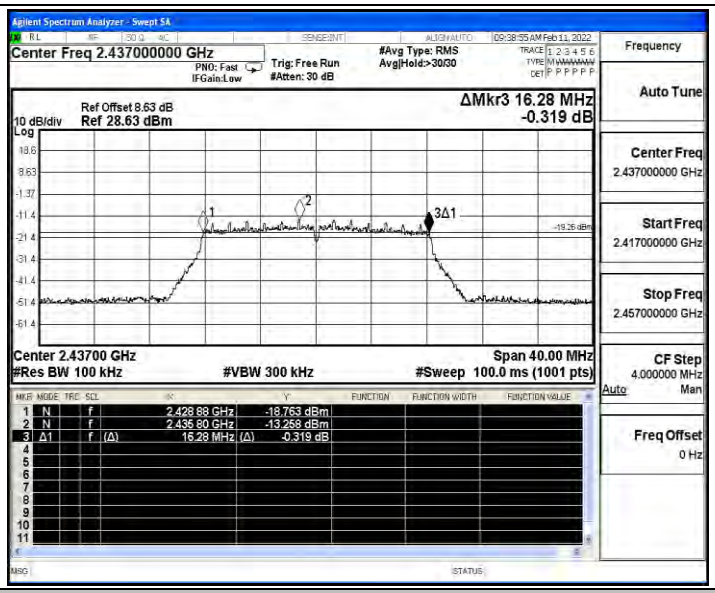

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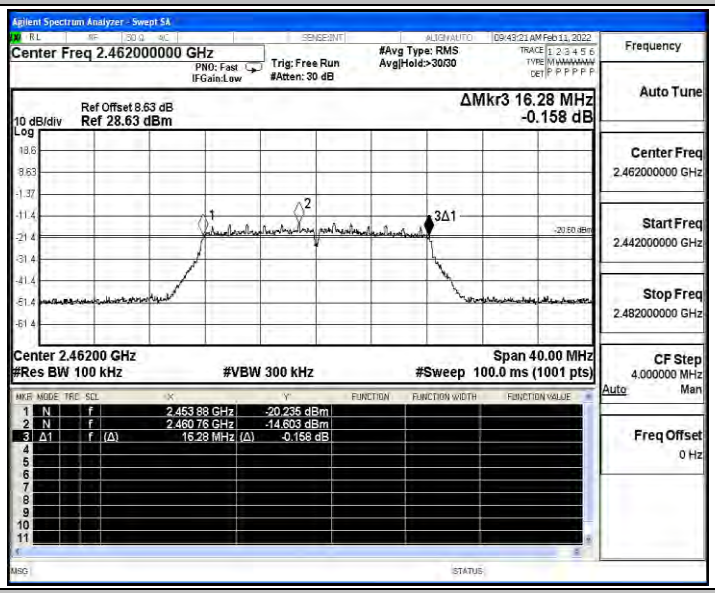

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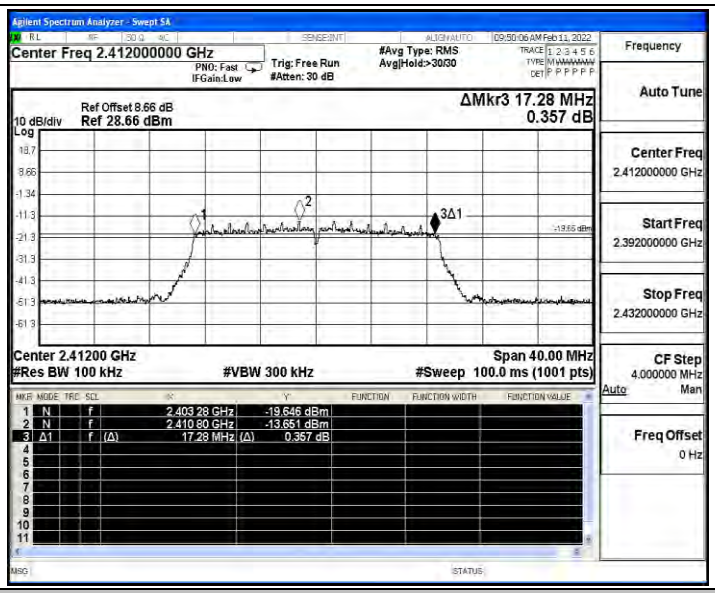

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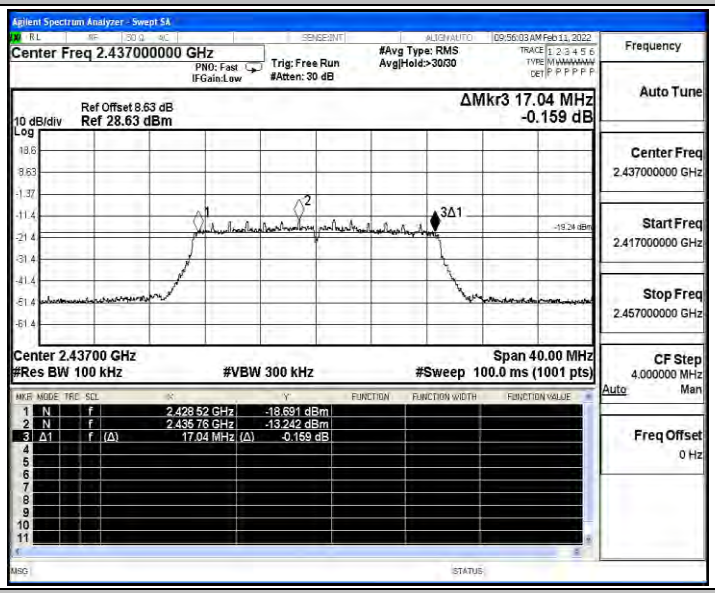

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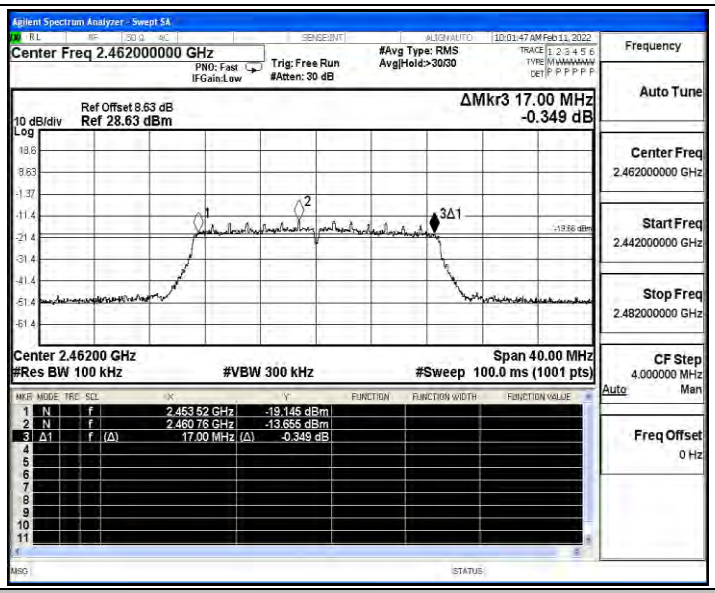

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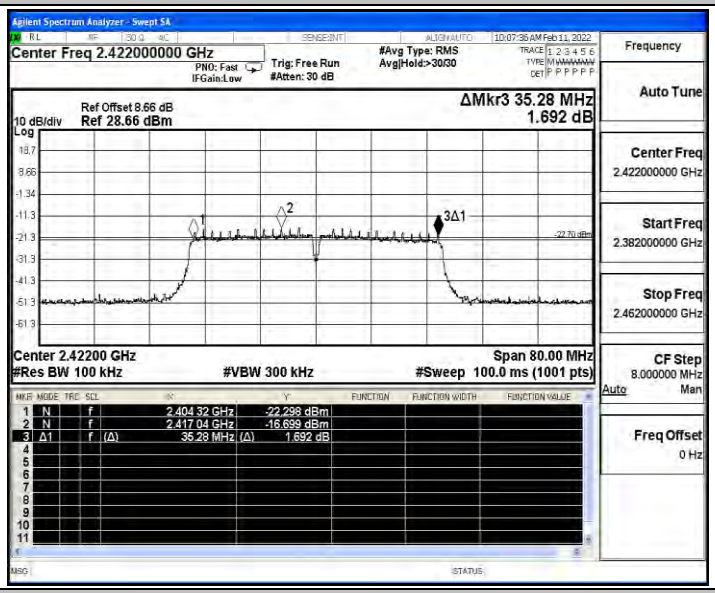

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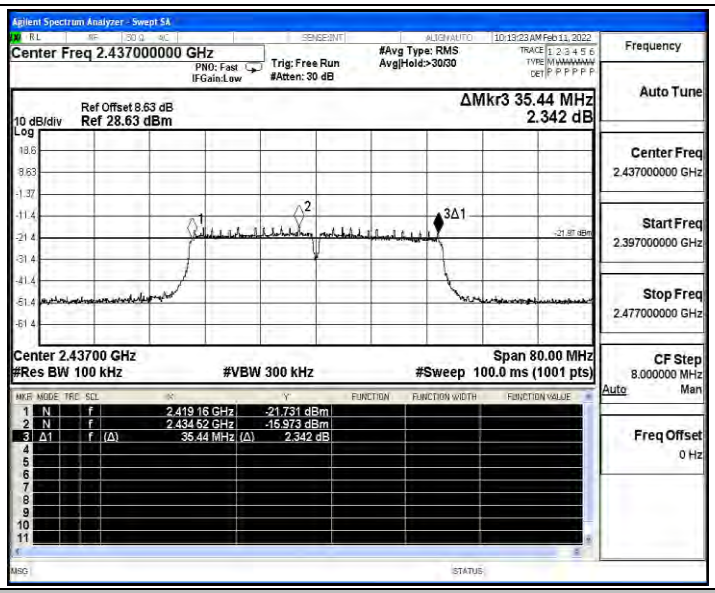

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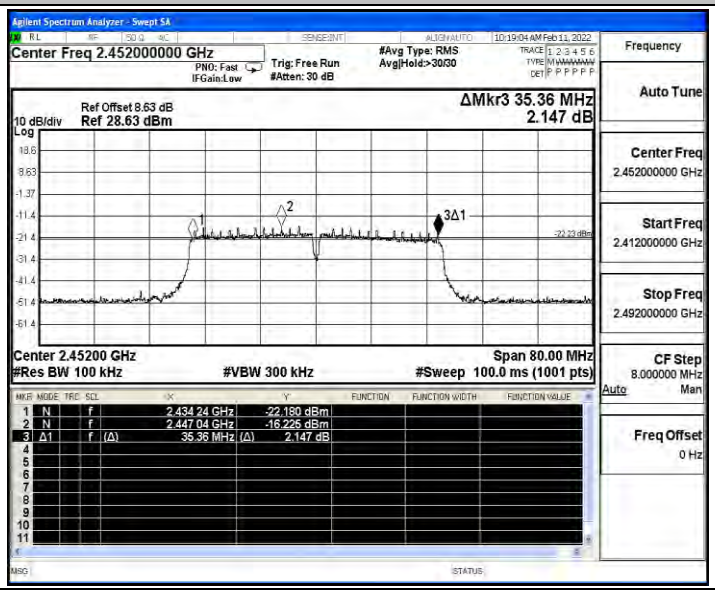

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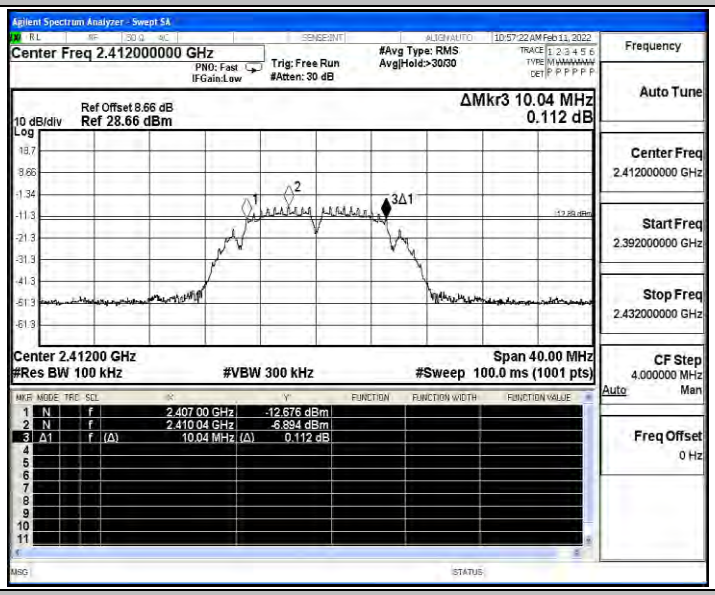

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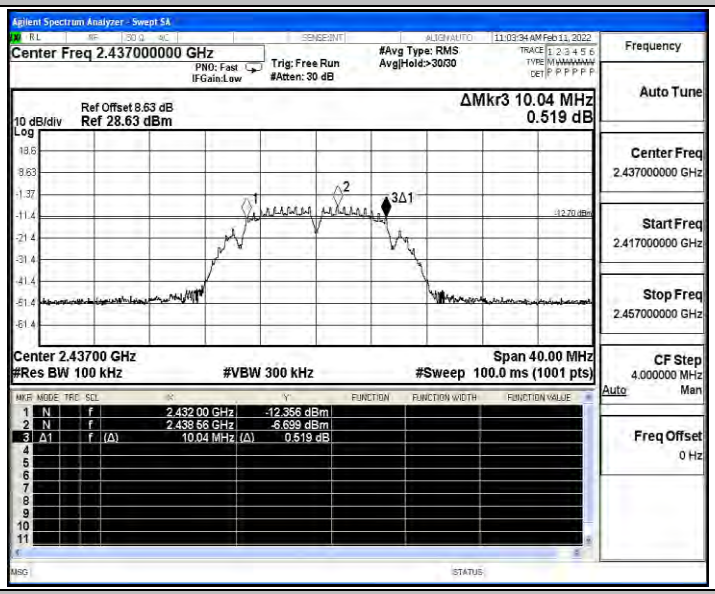

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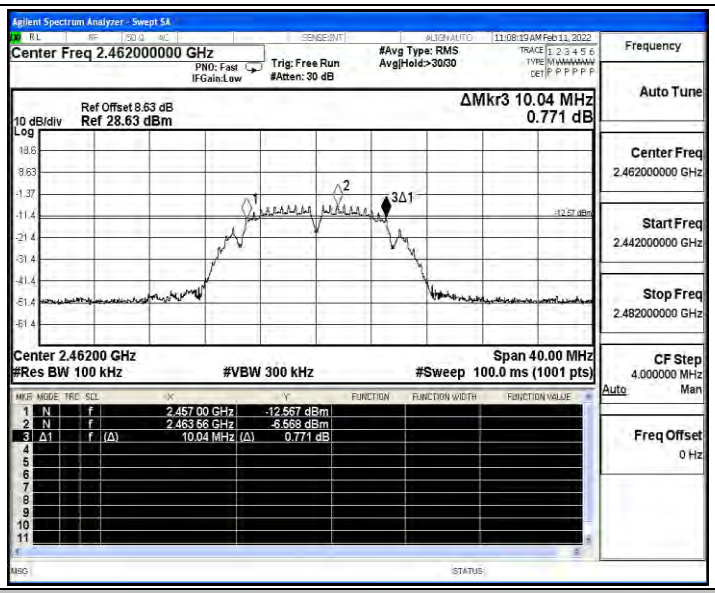

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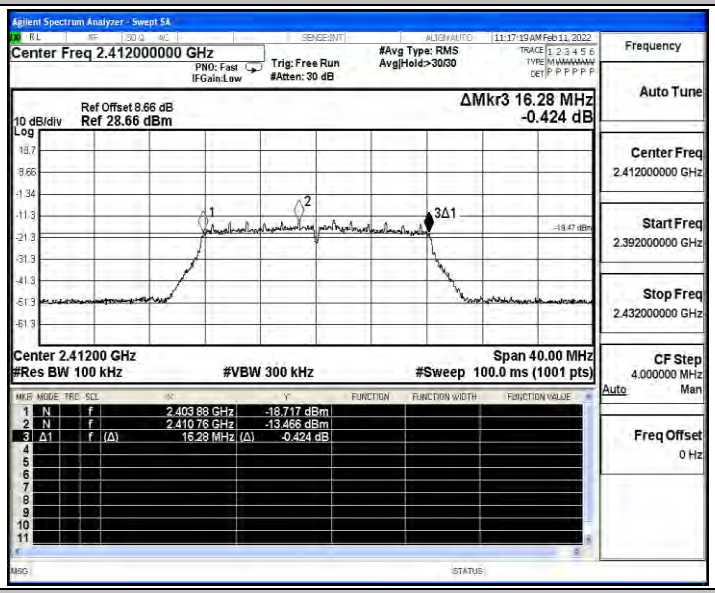

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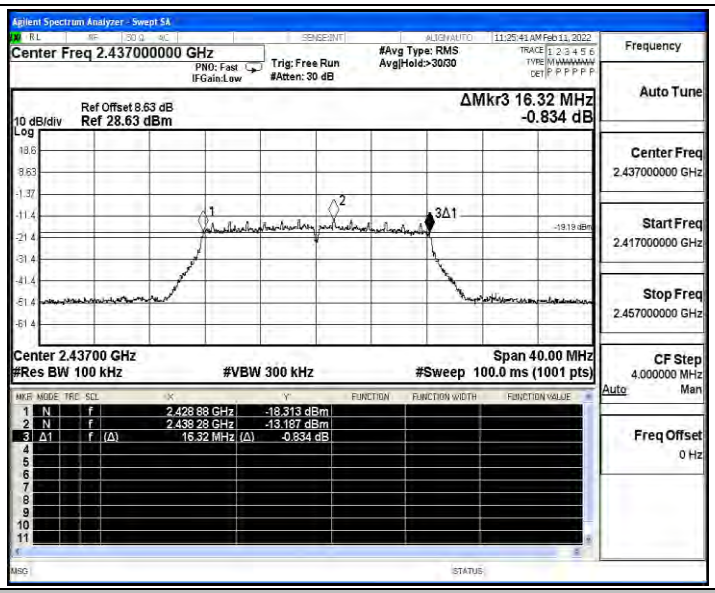

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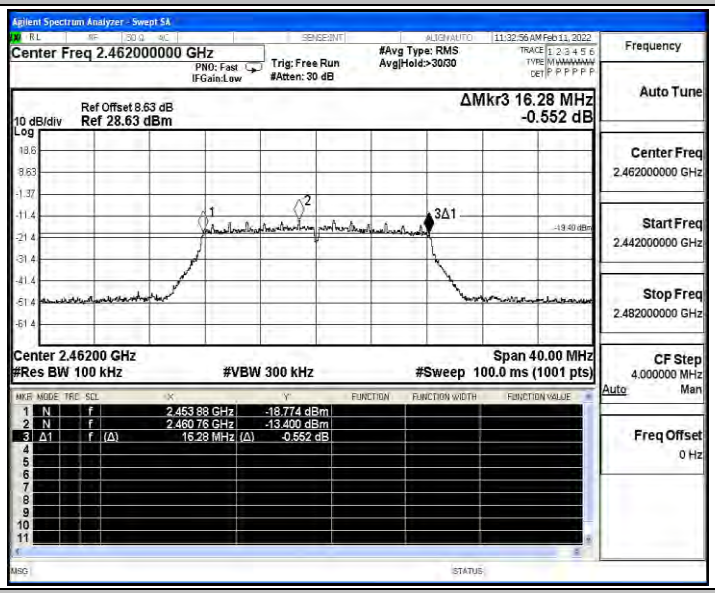

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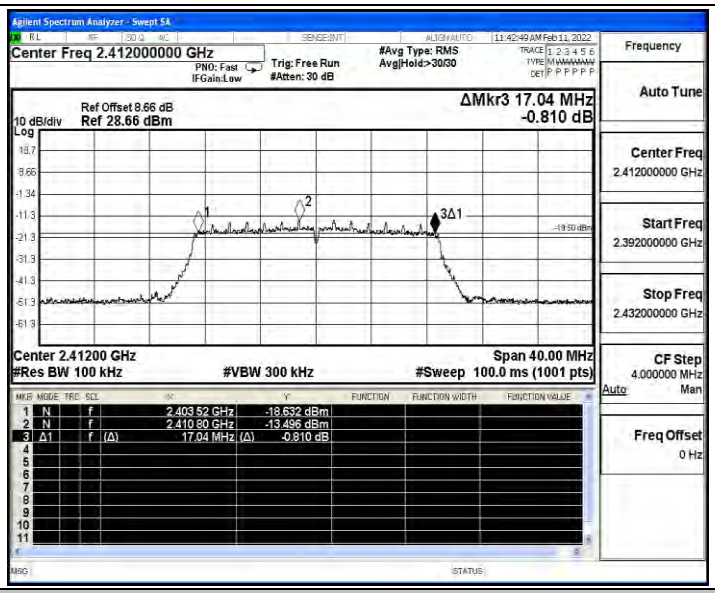

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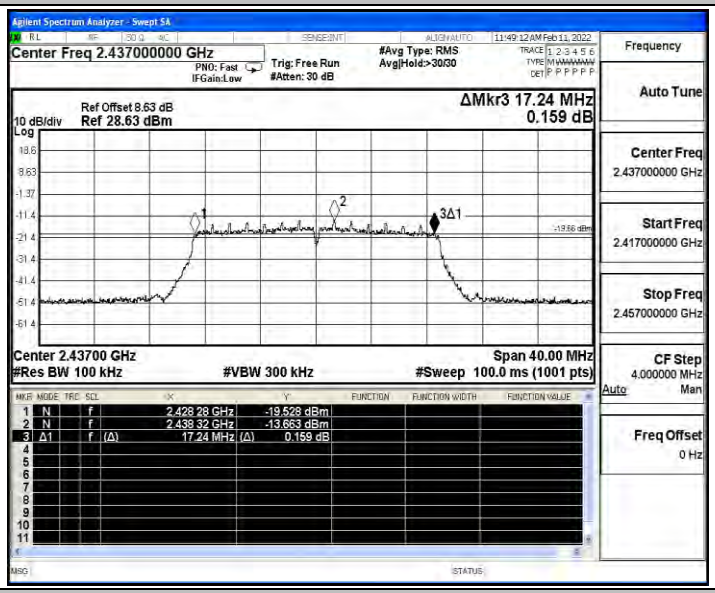

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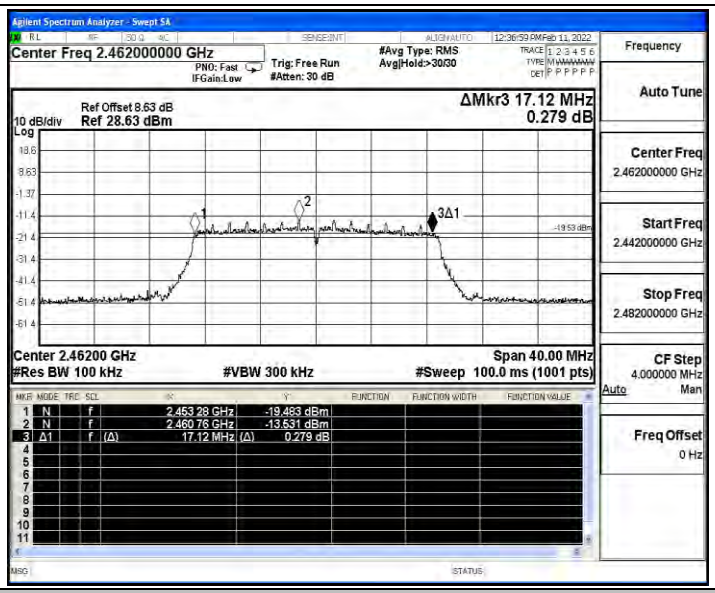

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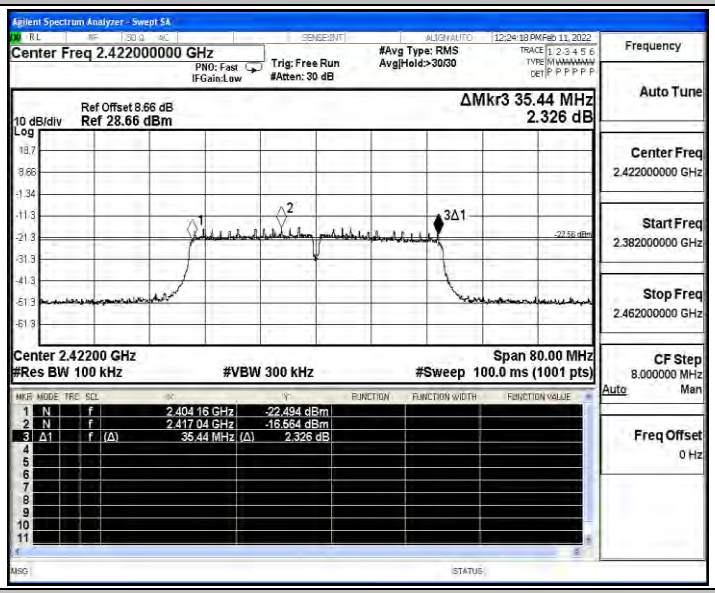

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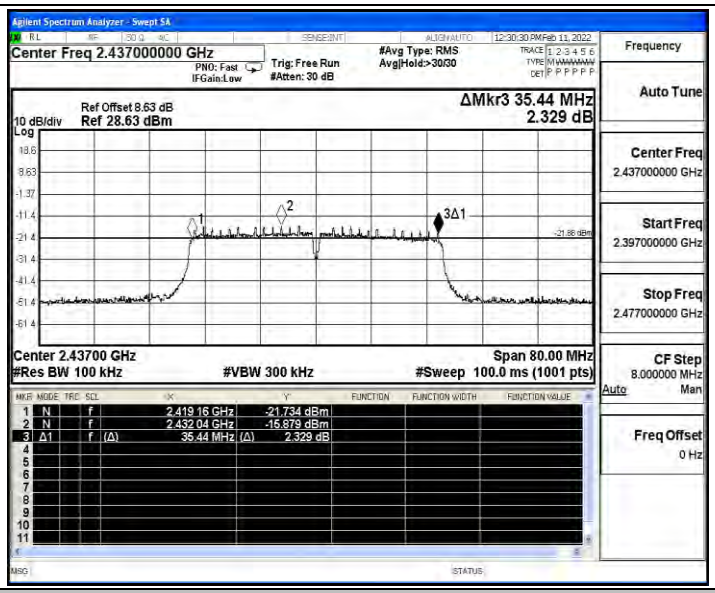

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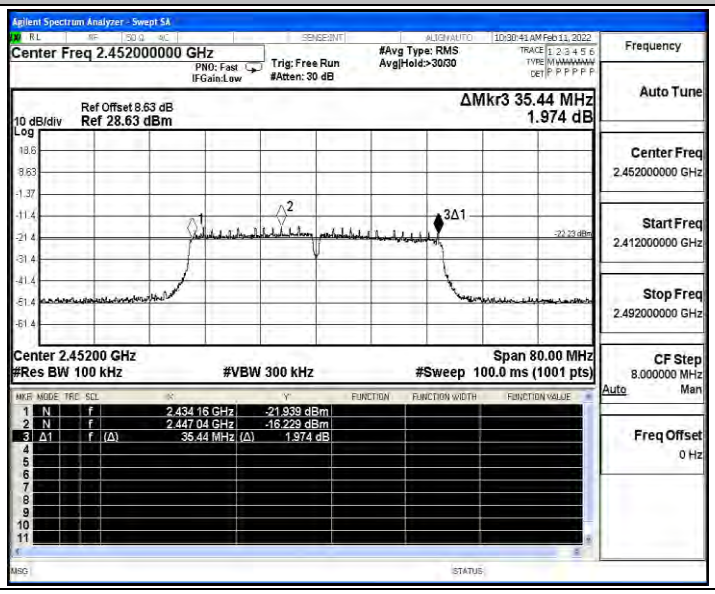
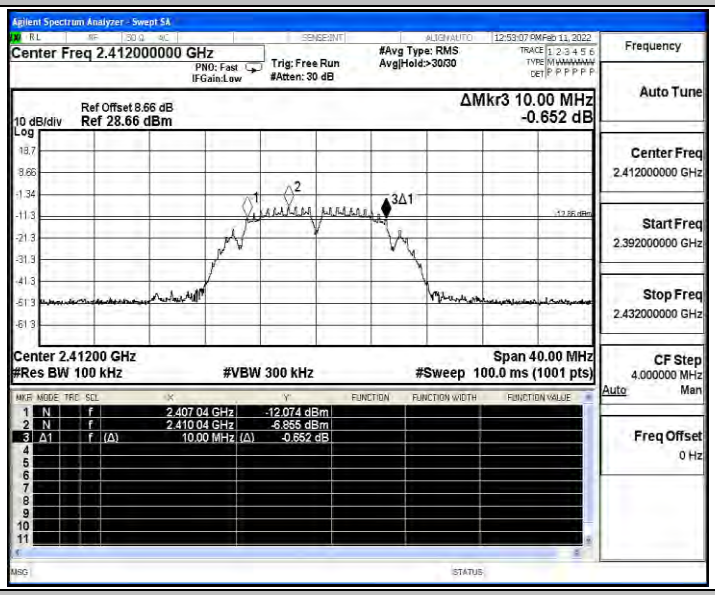


11B_Ant2_2412



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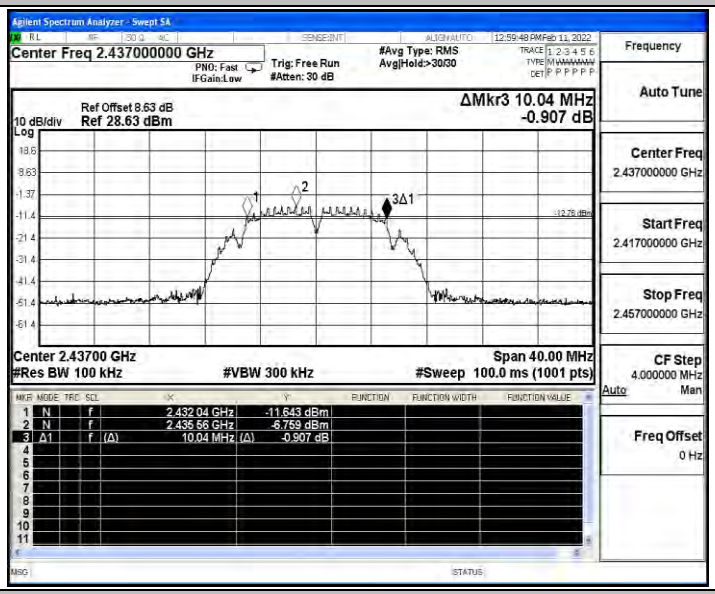

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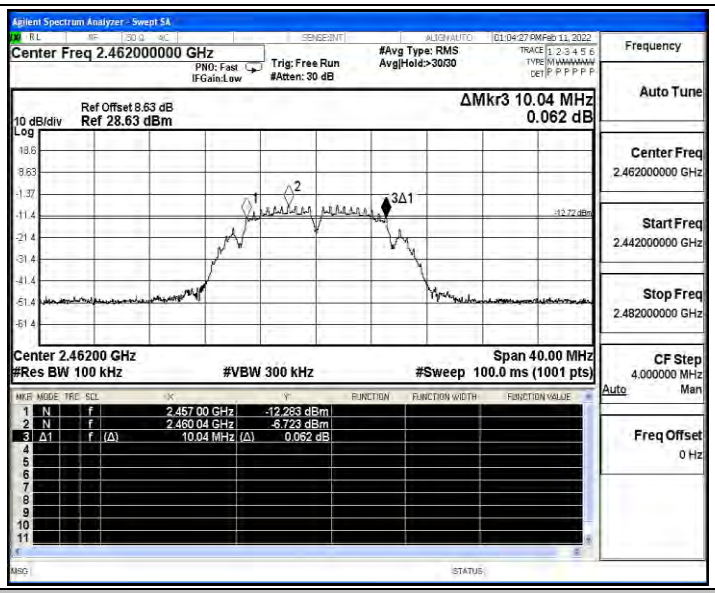

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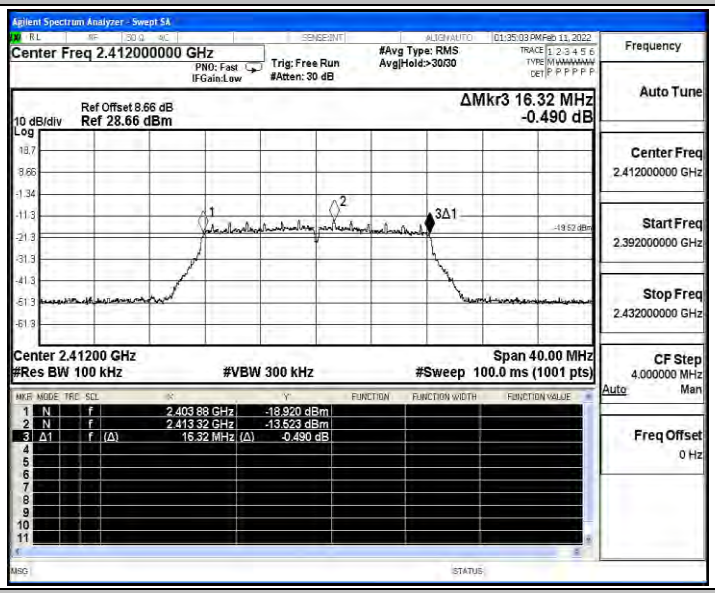

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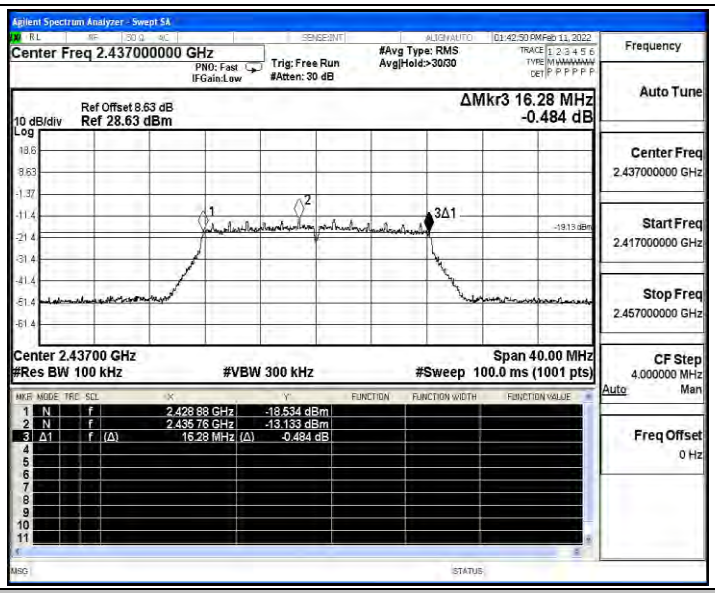

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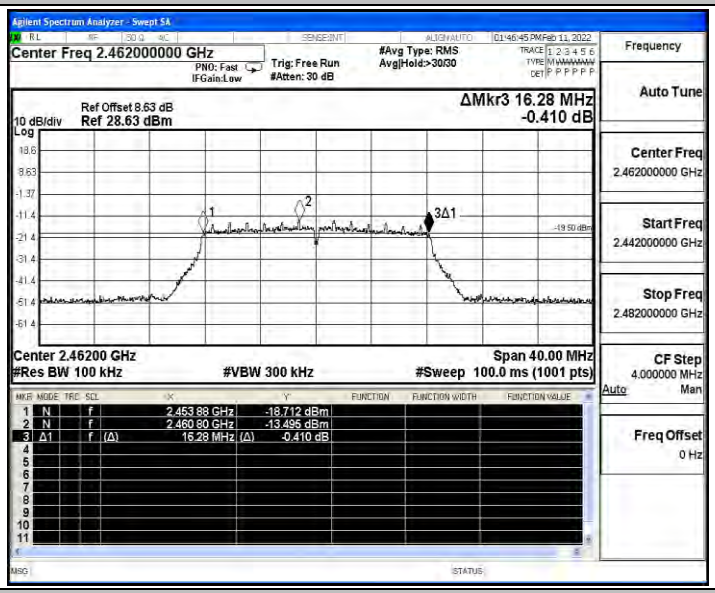

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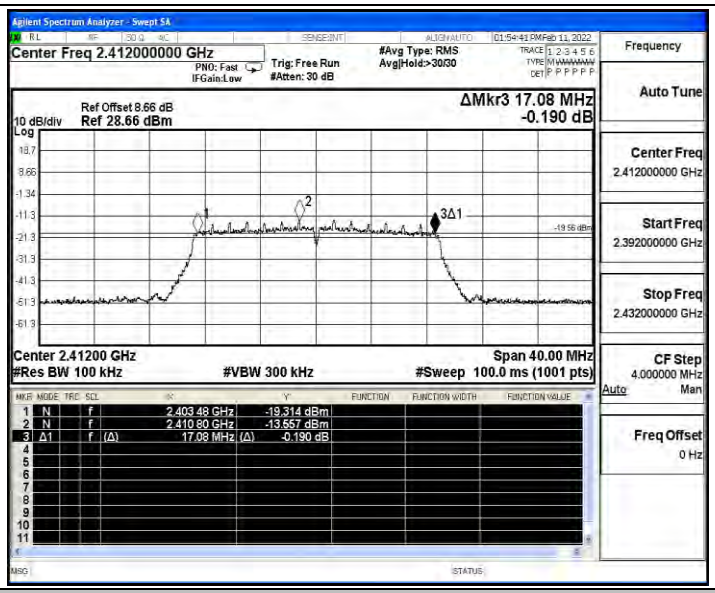

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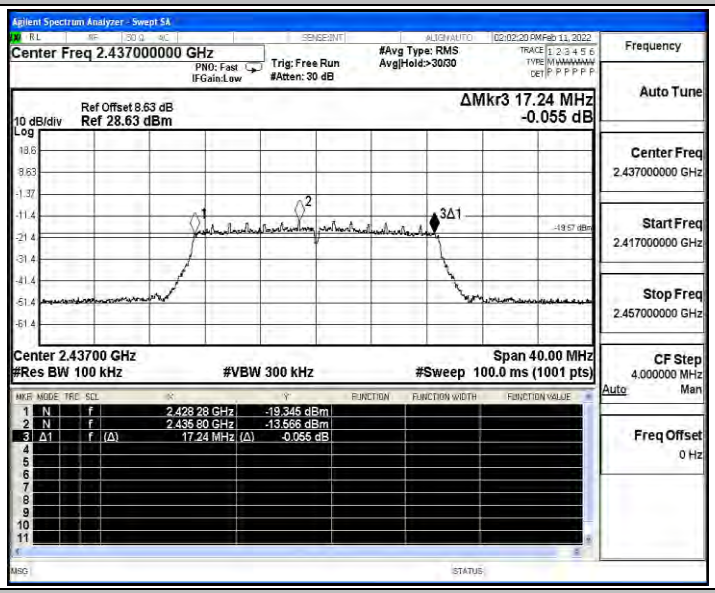

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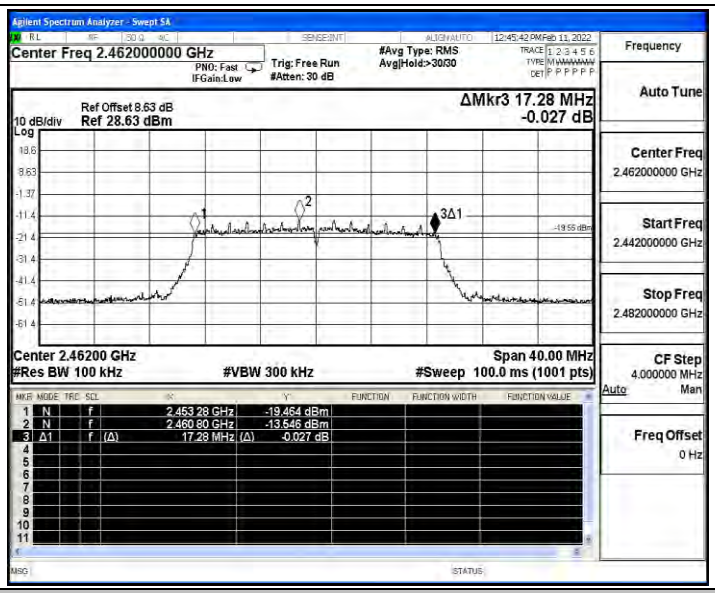

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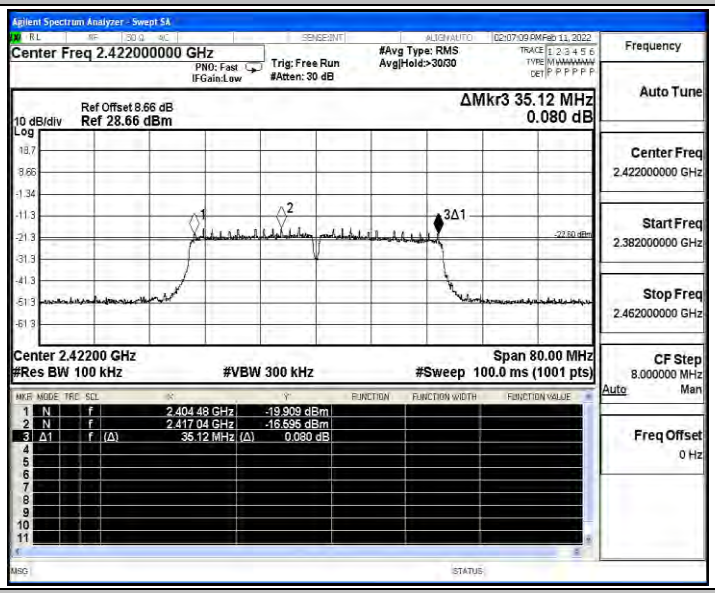

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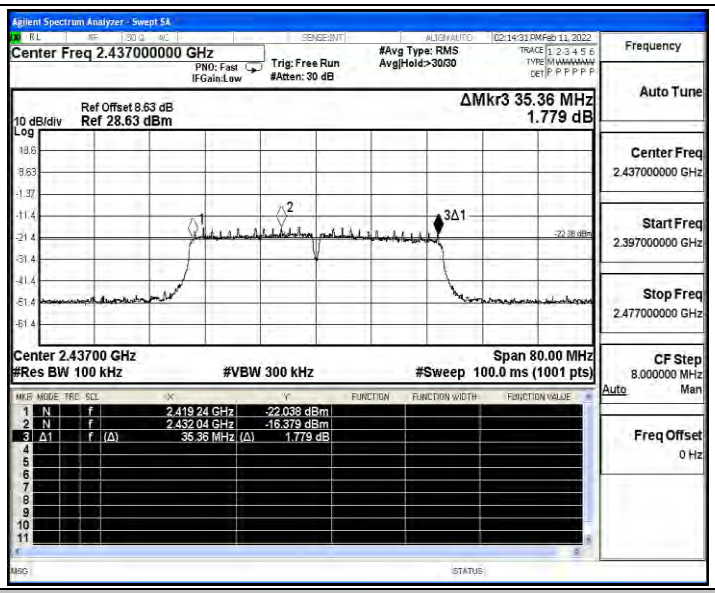

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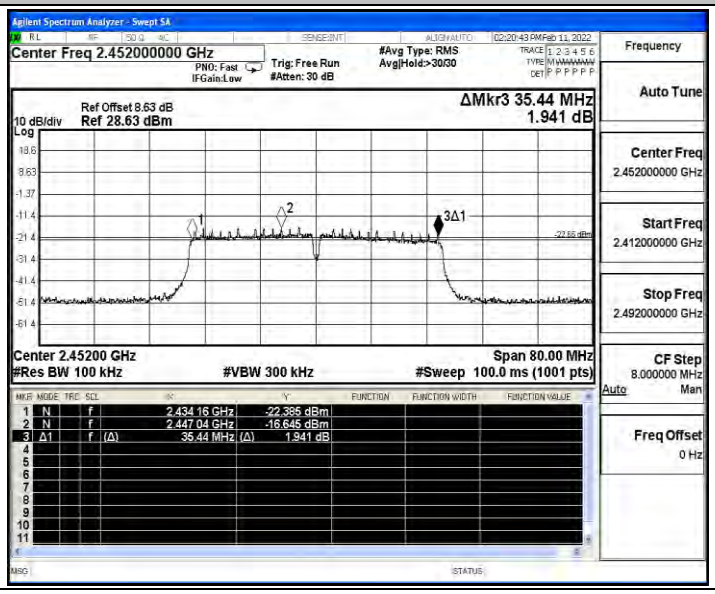

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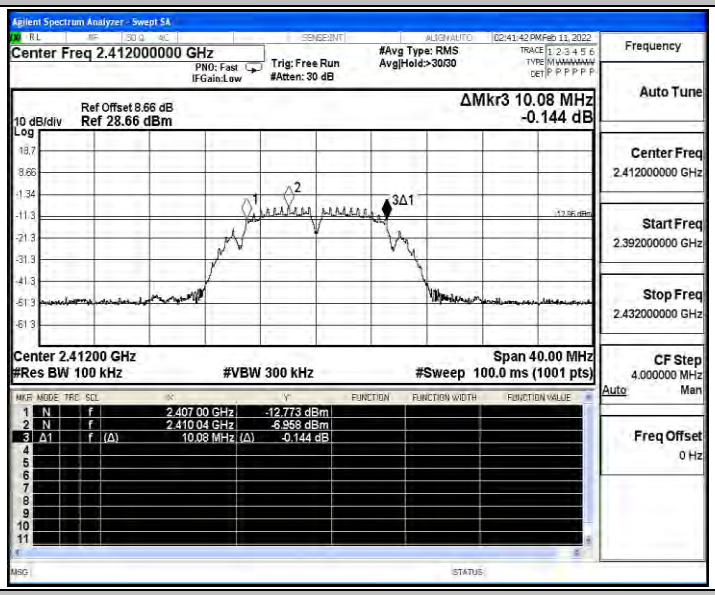

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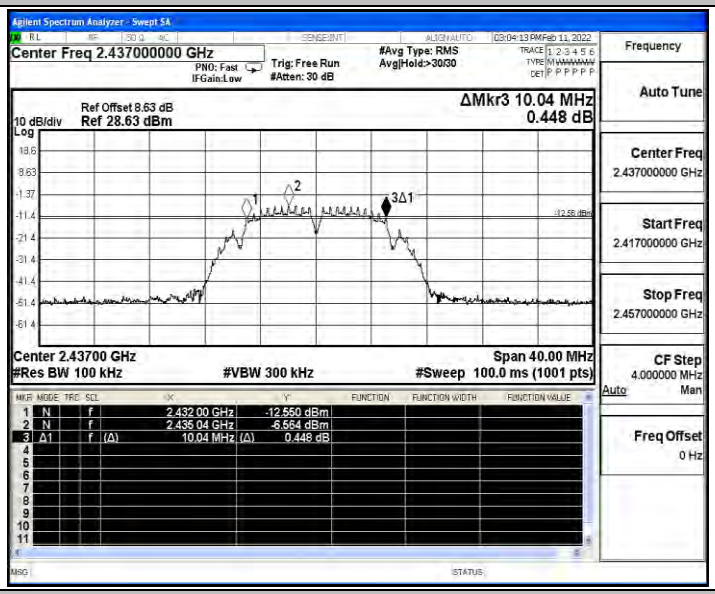

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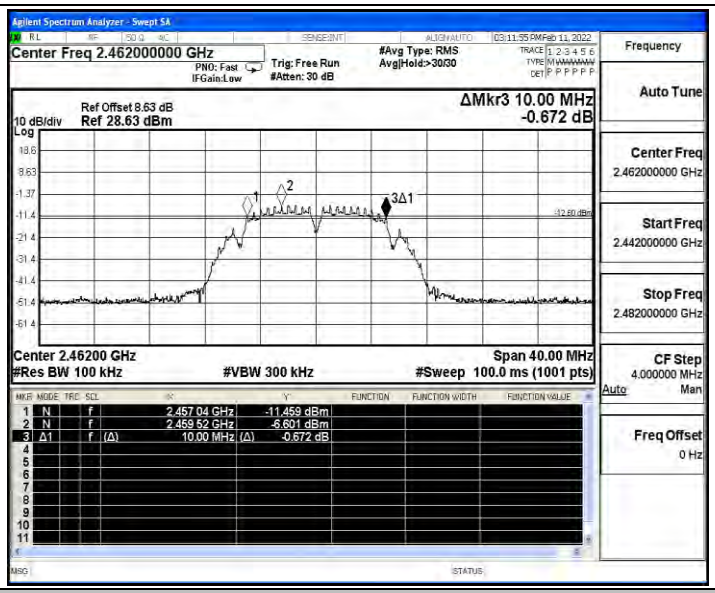

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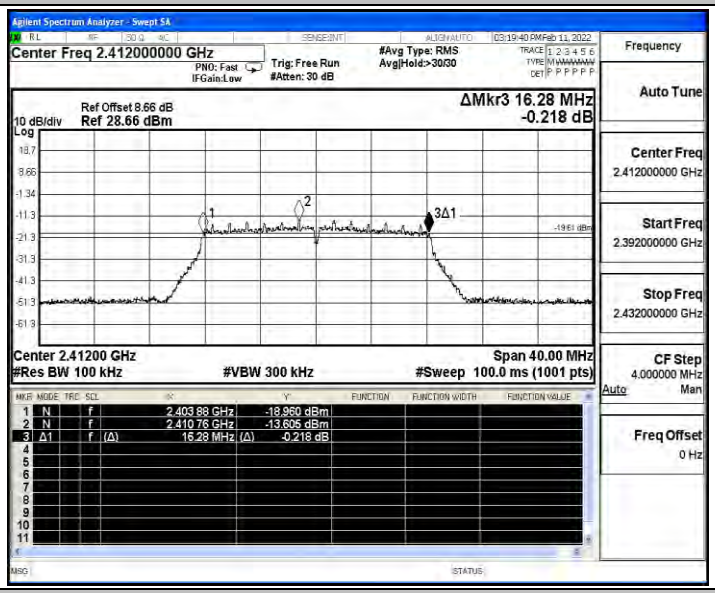

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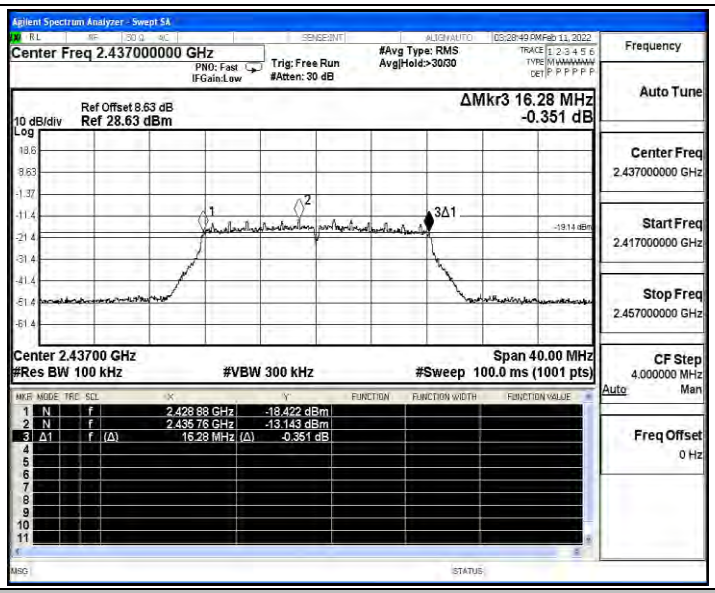

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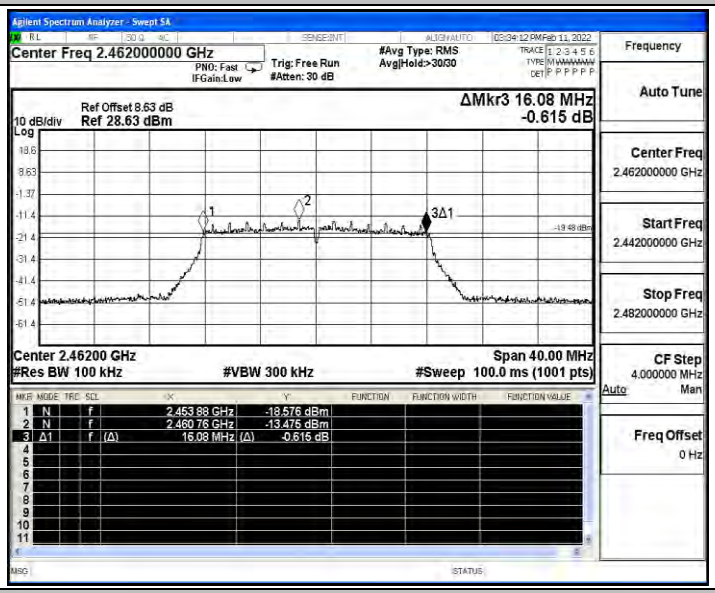

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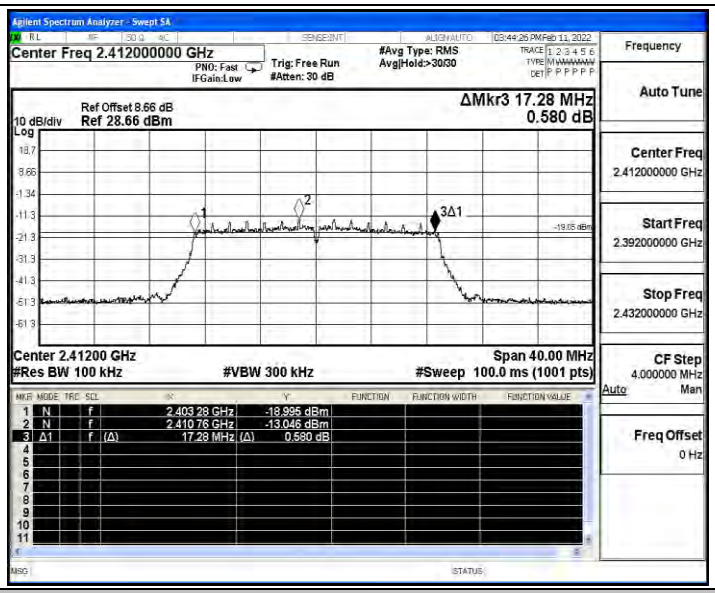

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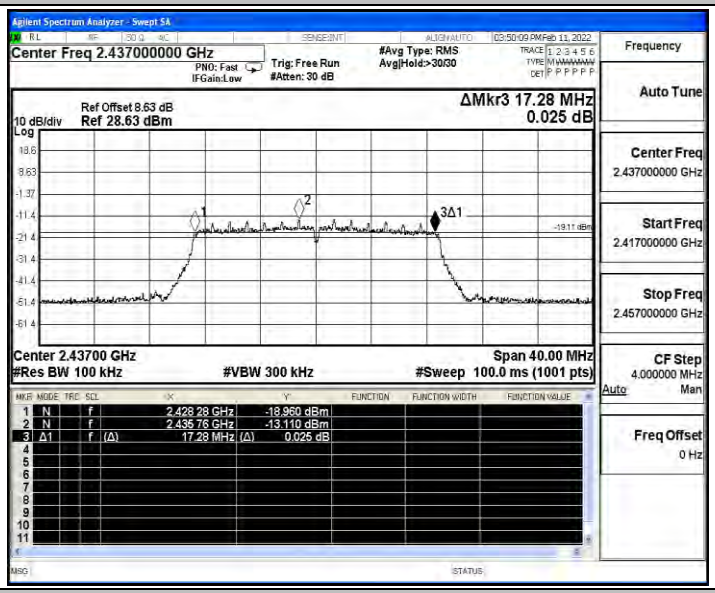

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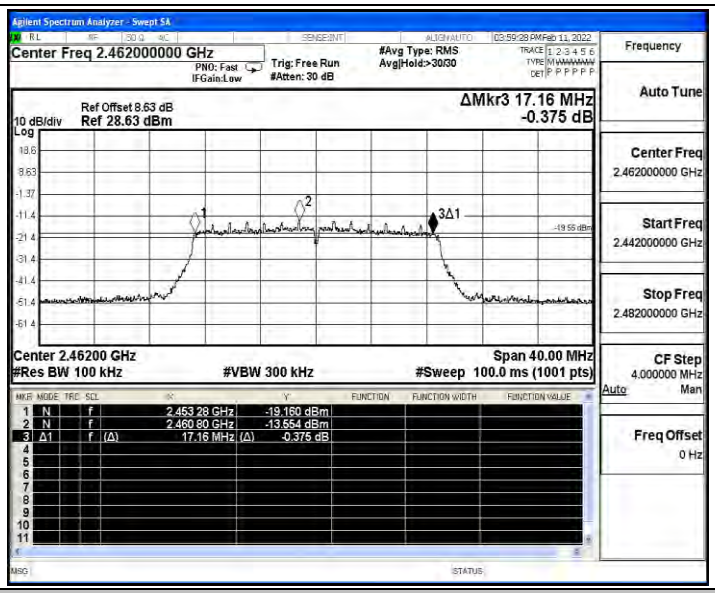

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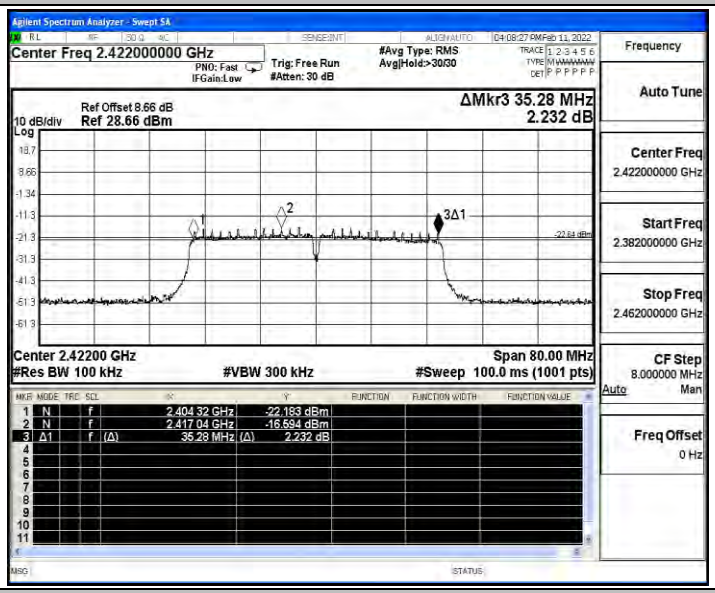

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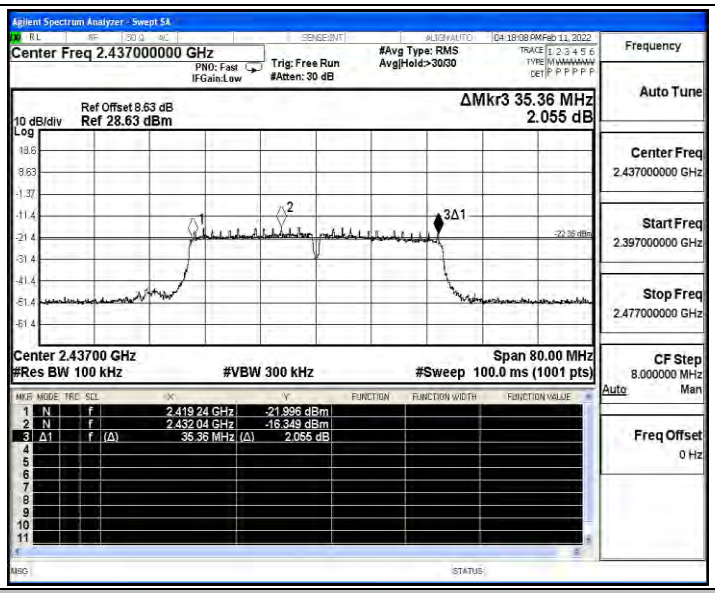

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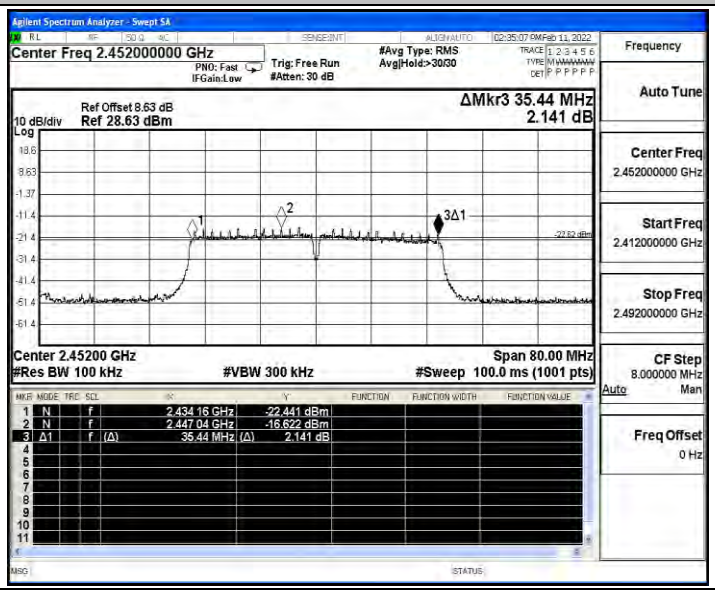


A.2 Maximum conducted output power

Test Result

Mode	Channel	Peak Power [dBm]					Limit [dBm]	Verdict
		Ant 0	Ant 1	Ant 2	Ant 3	Sum		
11B	2412	9.68	9.35	9.26	9.28	/	30	PASS
	2437	9.41	9.57	9.51	9.46	/	30	PASS
	2462	9.77	9.72	9.64	9.59	/	30	PASS
11G	2412	9.31	9.53	9.47	9.42	/	30	PASS
	2437	9.63	9.84	9.73	9.79	/	30	PASS
	2462	9.27	9.42	9.33	9.34	/	30	PASS
11N20	2412	7.62	7.84	7.77	7.91	13.81	30	PASS
	2437	7.97	7.64	7.61	7.89	13.80	30	PASS
	2462	7.49	7.67	7.62	7.65	13.63	30	PASS
11N40	2422	7.13	7.30	7.25	7.27	13.26	30	PASS
	2437	7.86	7.97	7.43	7.47	13.71	30	PASS
	2452	7.54	7.61	7.15	7.13	13.38	30	PASS

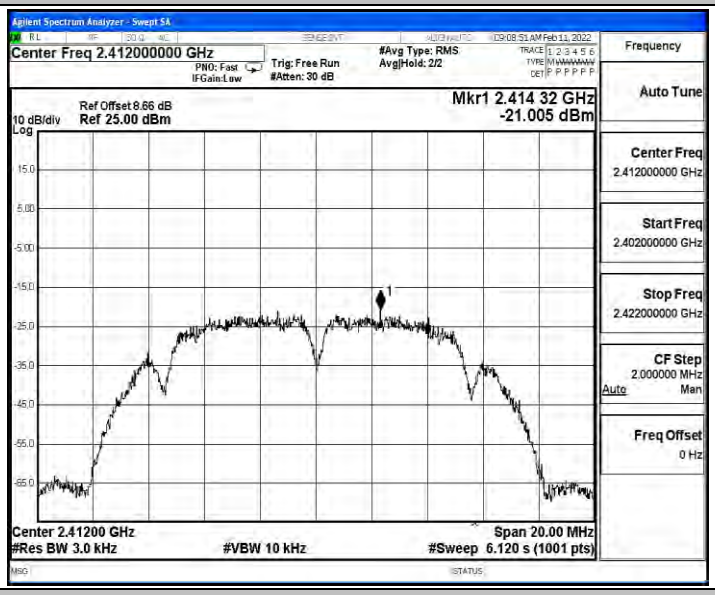
A.3 Maximum power spectral density

Test Result

Mode	Channel	PSD Level [dBm/3KHz]					Limit [dBm/3KHz]	Verdict
		Ant 0	Ant 1	Ant 2	Ant 3	MIMO		
11B	2412	-21.01	-20.33	-21.05	-20.59	/	8	PASS
	2437	-20.88	-20.67	-20.38	-19.28	/	8	PASS
	2462	-20.96	-21.14	-20.58	-20.89	/	8	PASS
11G	2412	-27.67	-28.16	-26	-27.12	/	8	PASS
	2437	-28.02	-27.67	-28.43	-27.26	/	8	PASS
	2462	-28.03	-26.41	-26.23	-27.82	/	8	PASS
11N20	2412	-28.11	-27.87	-27.03	-27.54	-21.60	2.98	PASS
	2437	-27.15	-28.49	-28.45	-26.57	-21.56	2.98	PASS
	2462	-28.99	-28.48	-27.98	-28.3	-22.40	2.98	PASS
11N40	2422	-30.64	-31.55	-31.07	-29.01	-24.44	2.98	PASS
	2437	-30.86	-30.39	-31.64	-31.26	-24.99	2.98	PASS
	2452	-30.7	-29.99	-30.19	-30	-24.19	2.98	PASS

Test Graphs

11B_Ant0_2412



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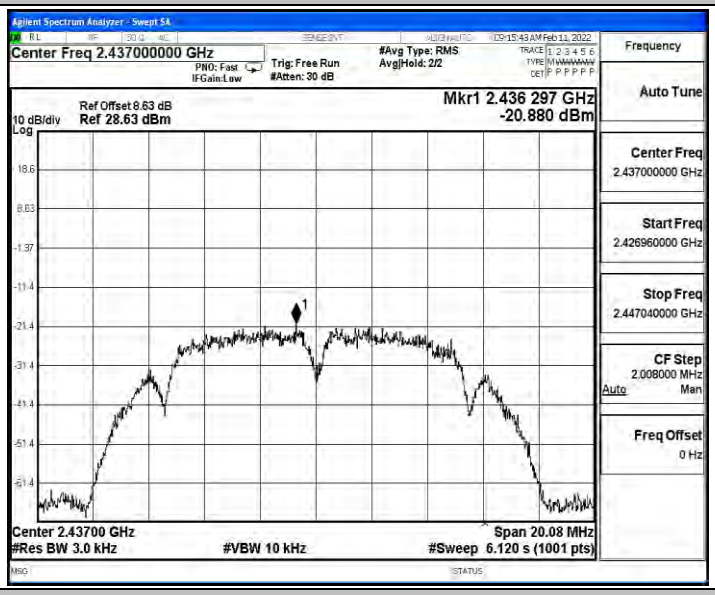

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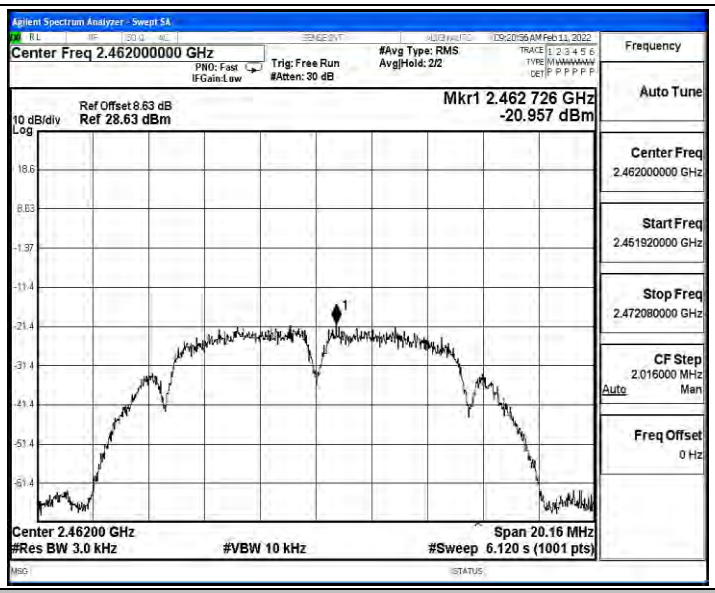

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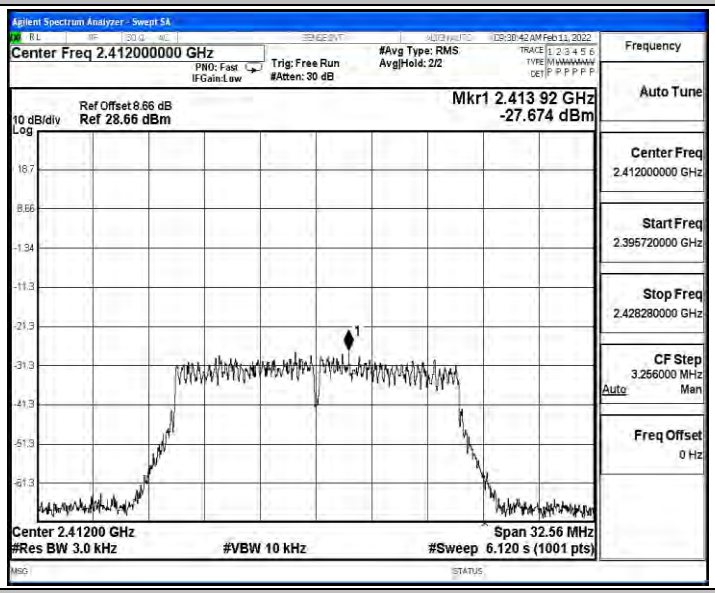

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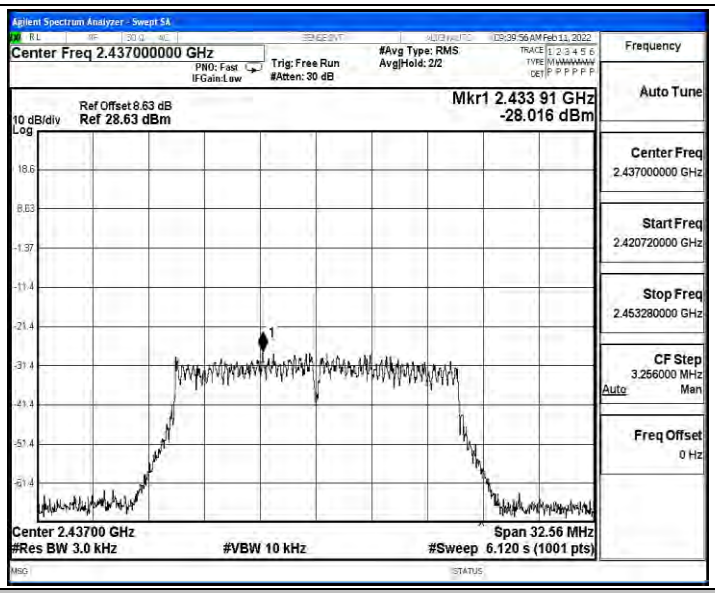

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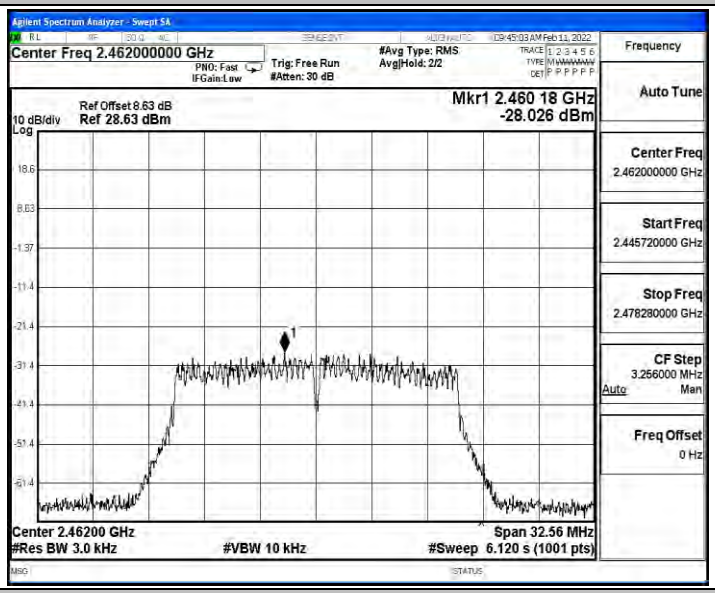

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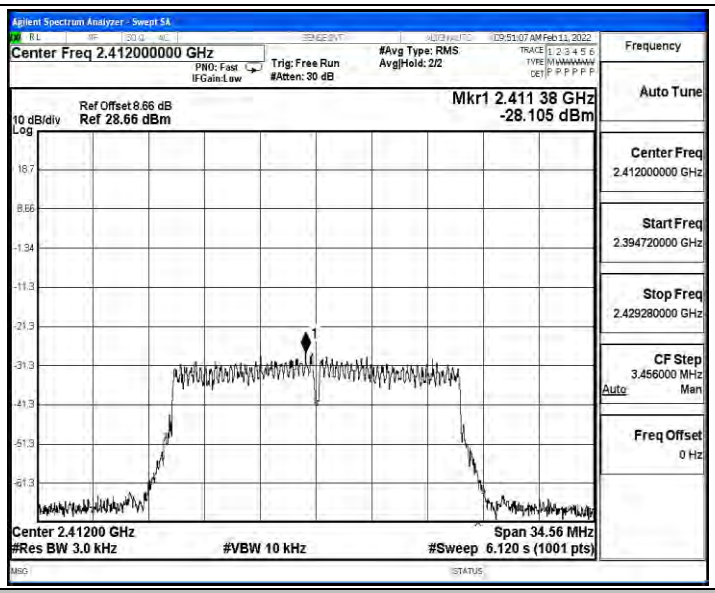

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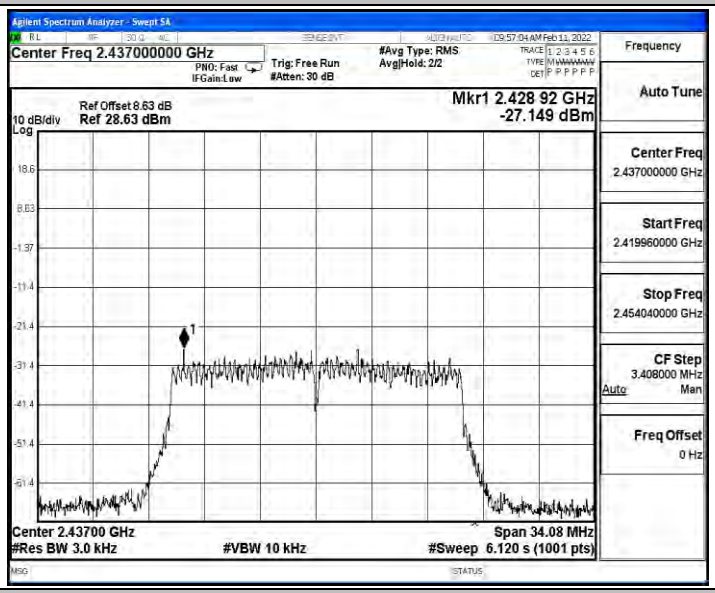

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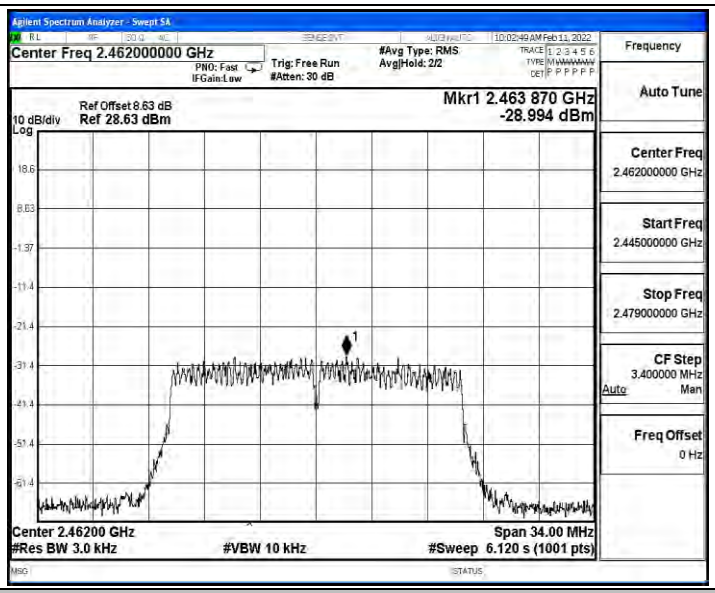

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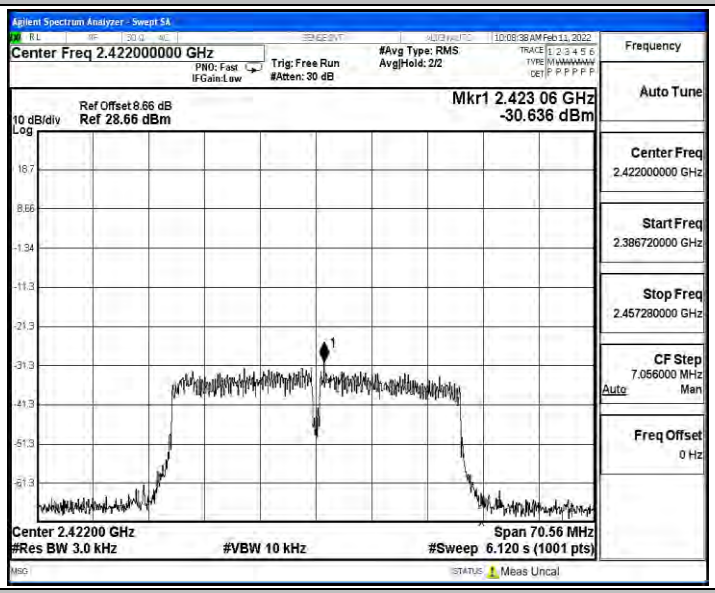

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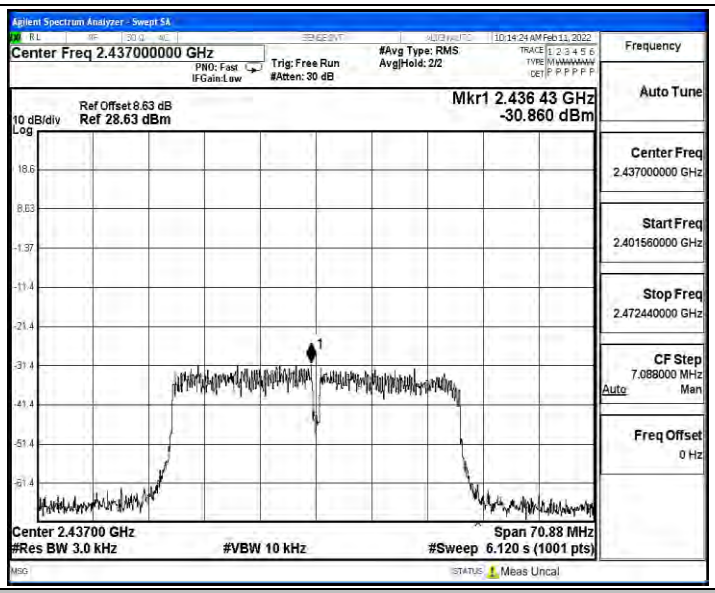

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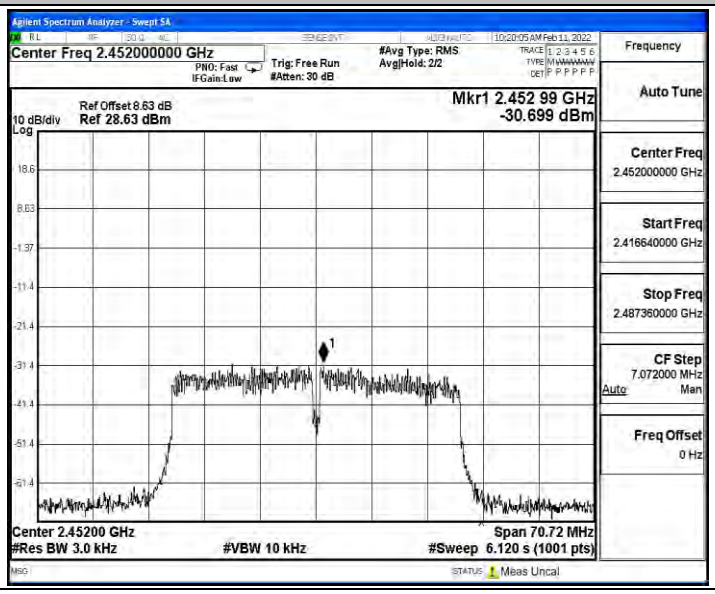

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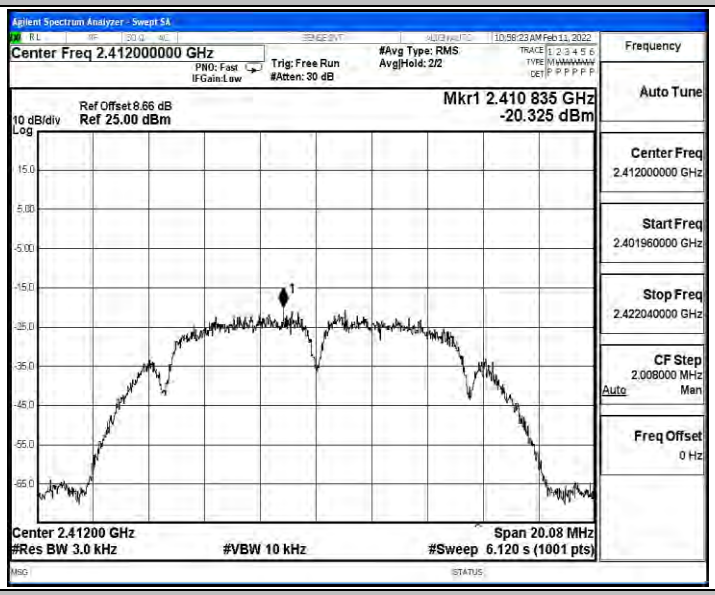

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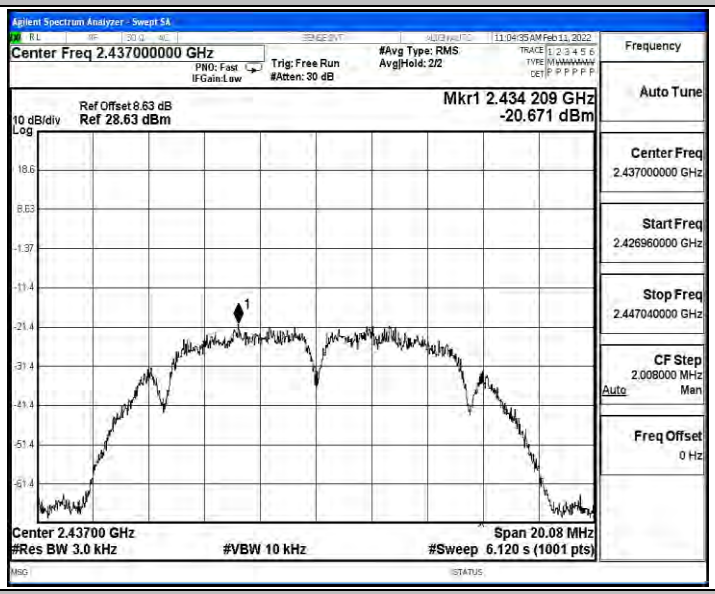

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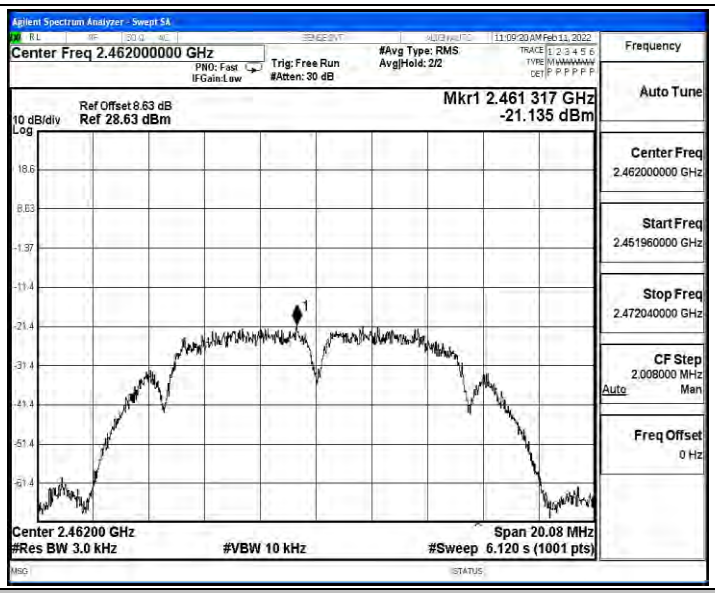

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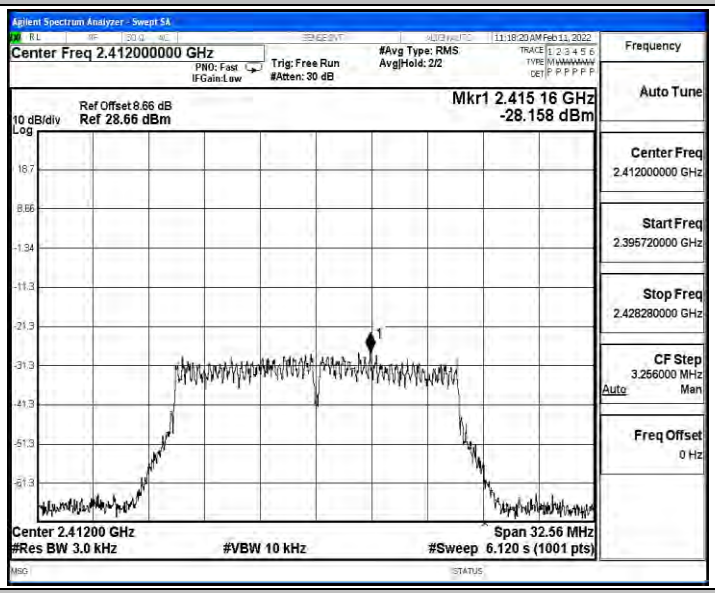

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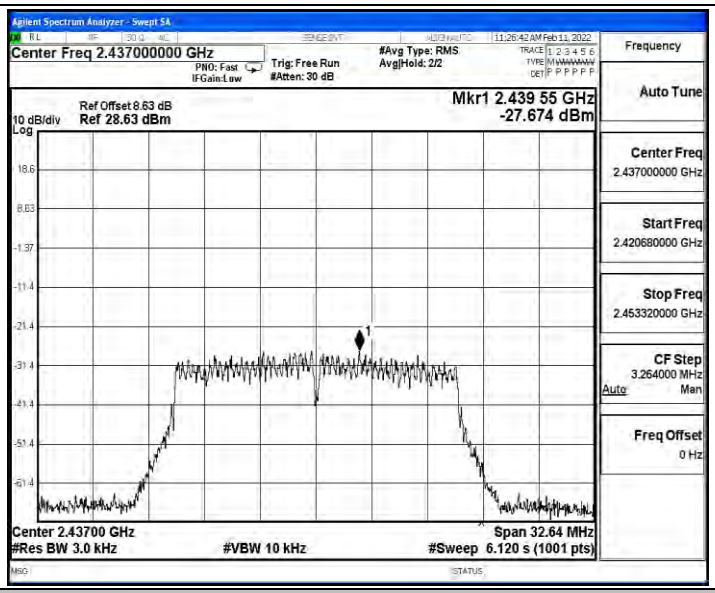

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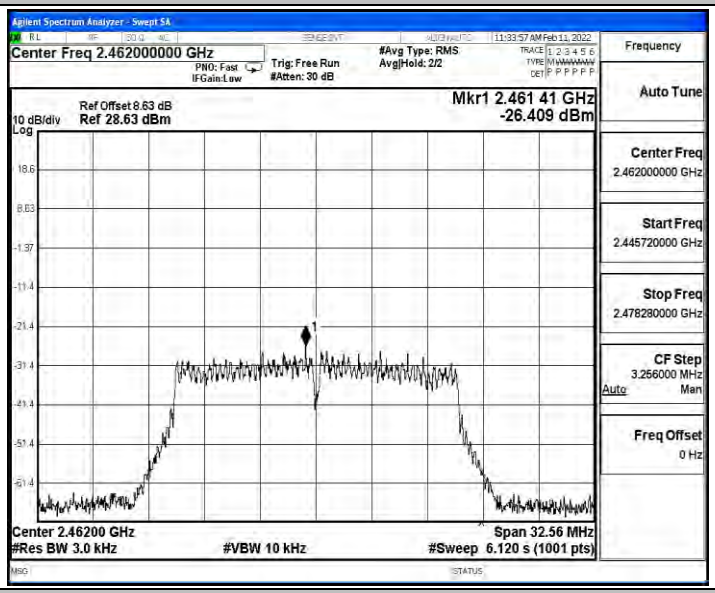

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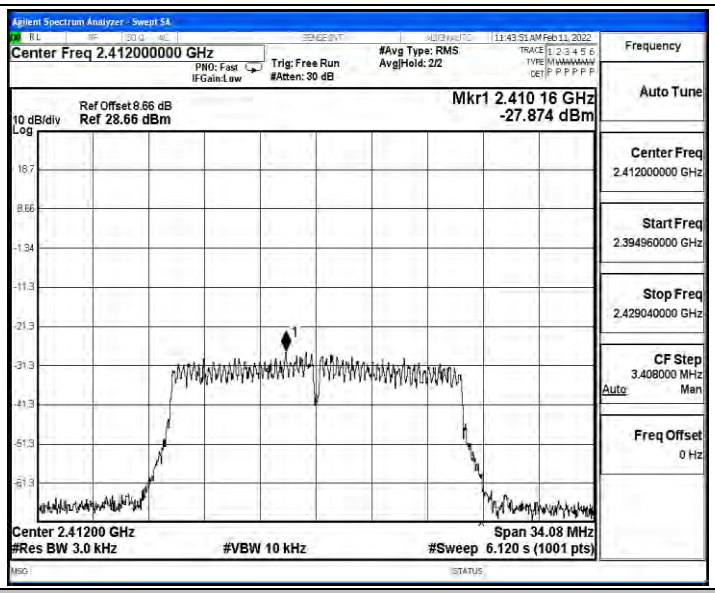

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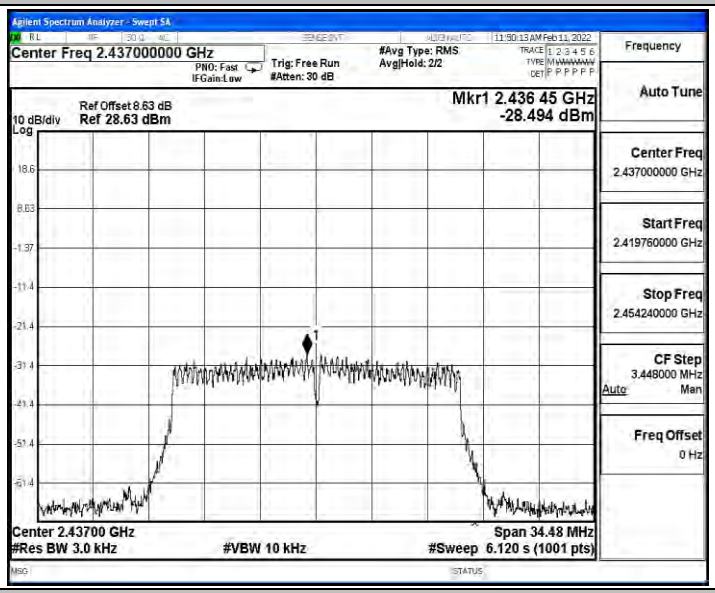

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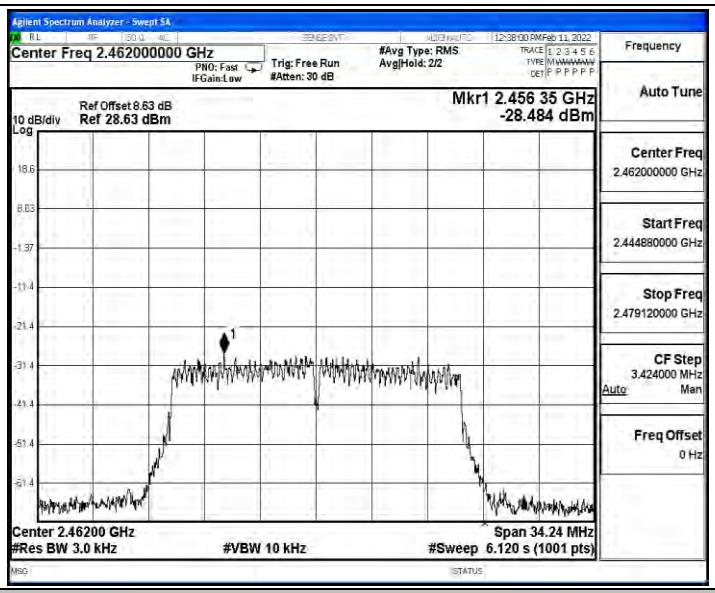

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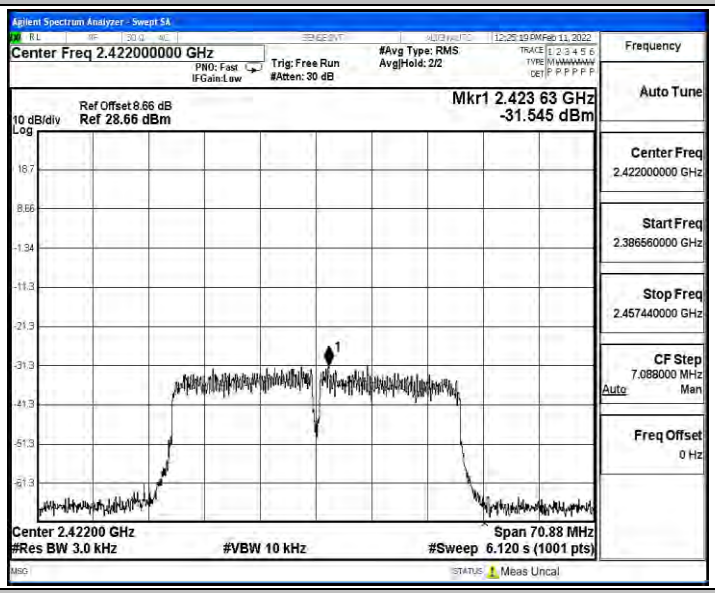

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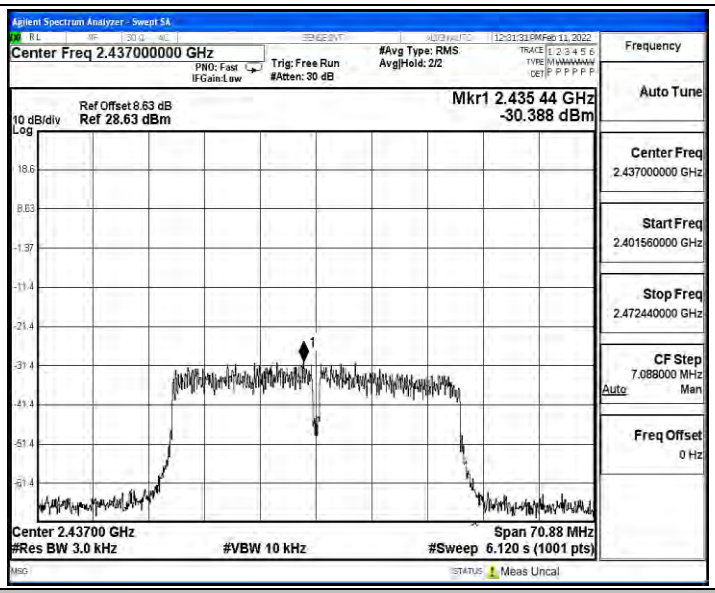

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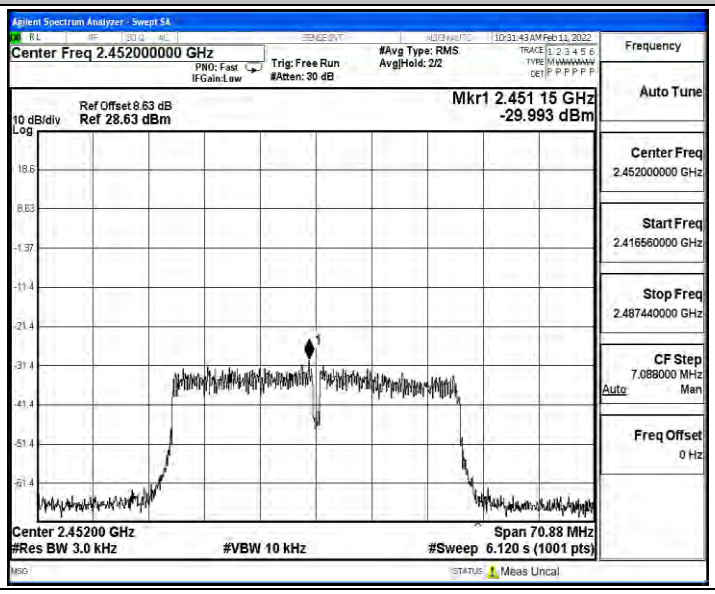

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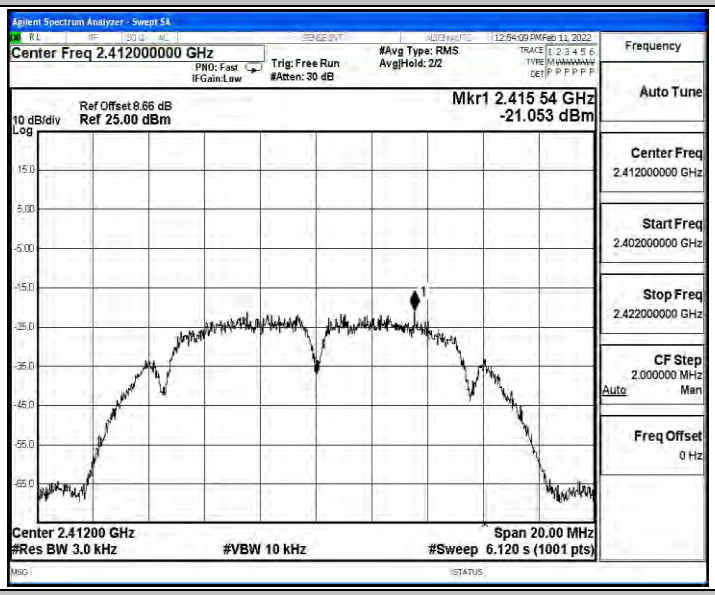

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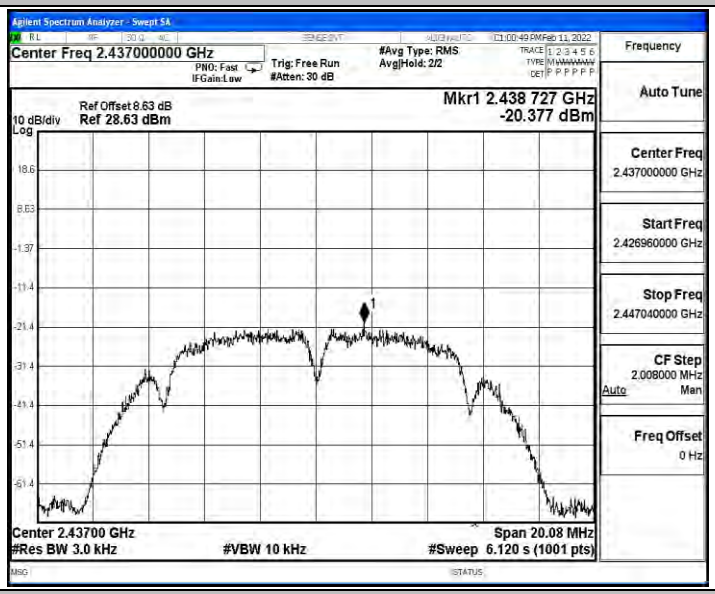

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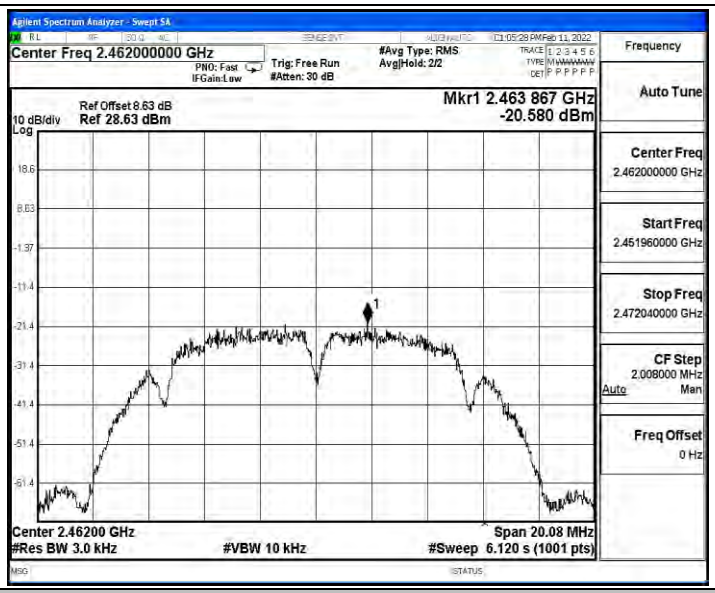

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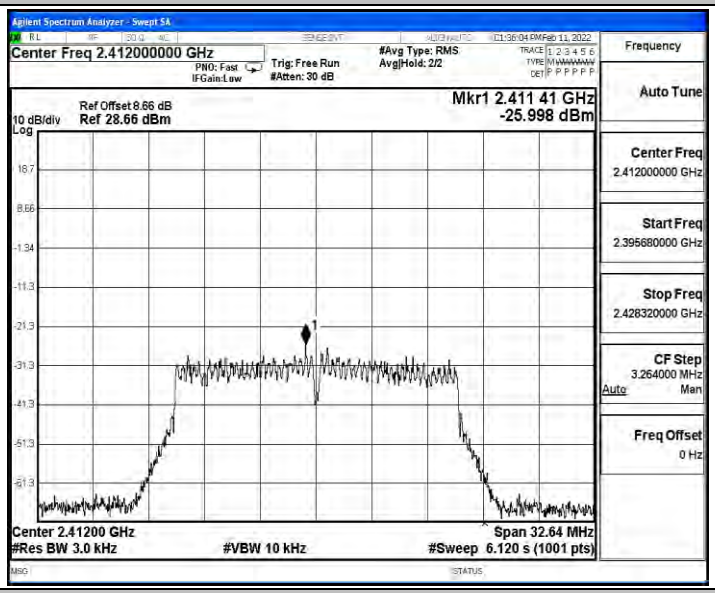

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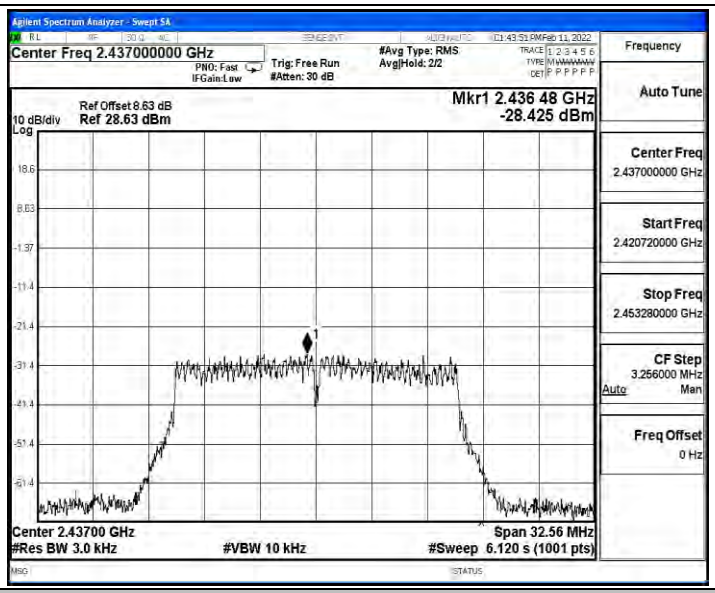

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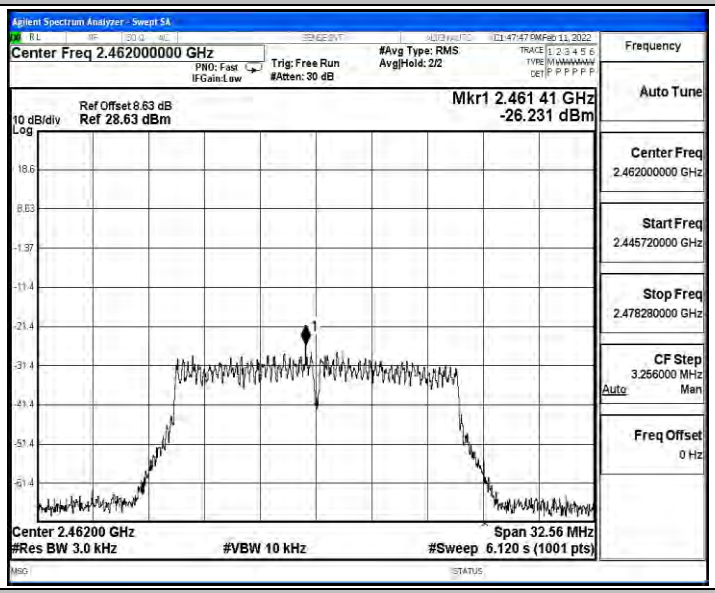

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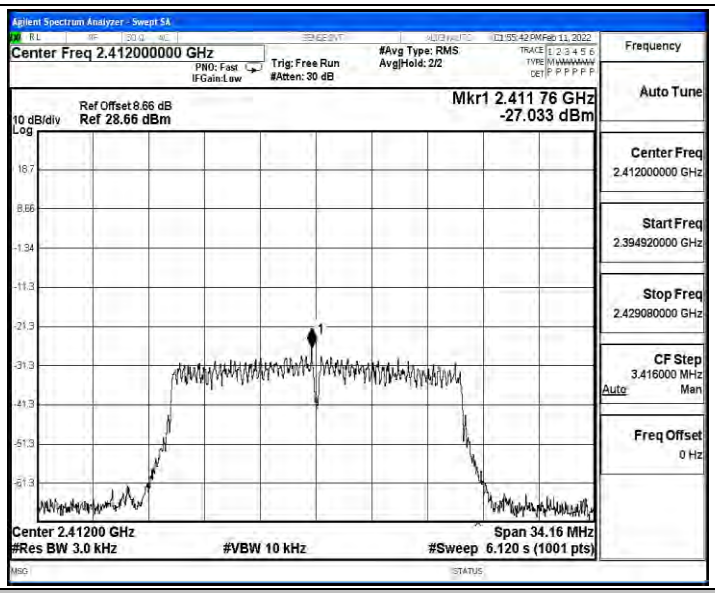

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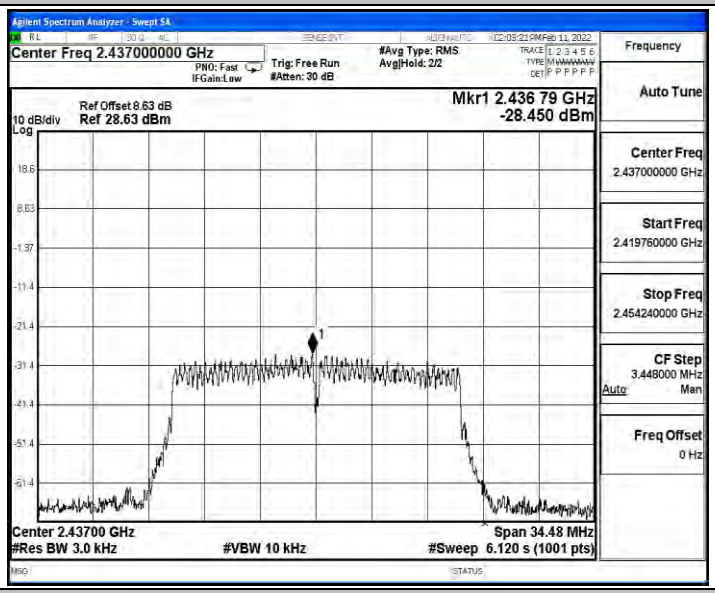

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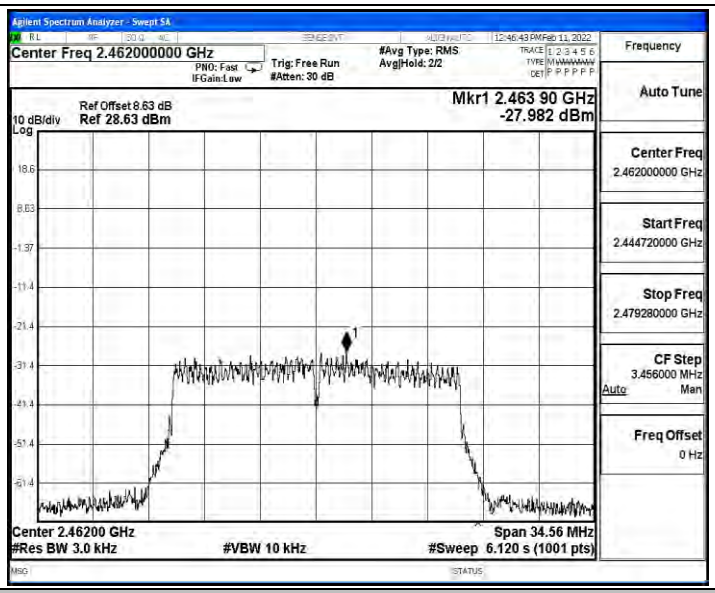

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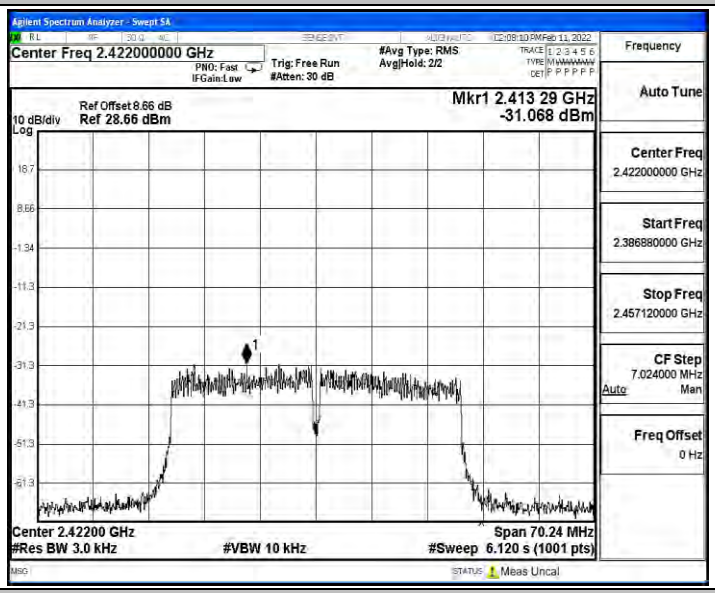

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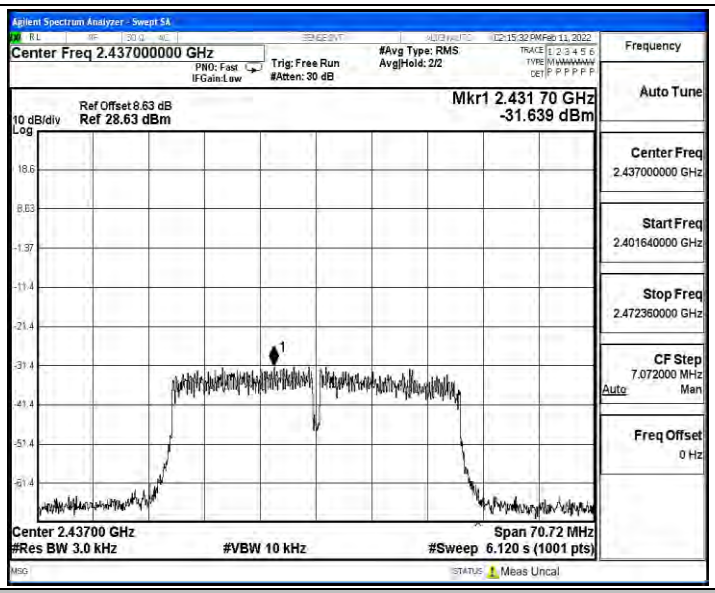

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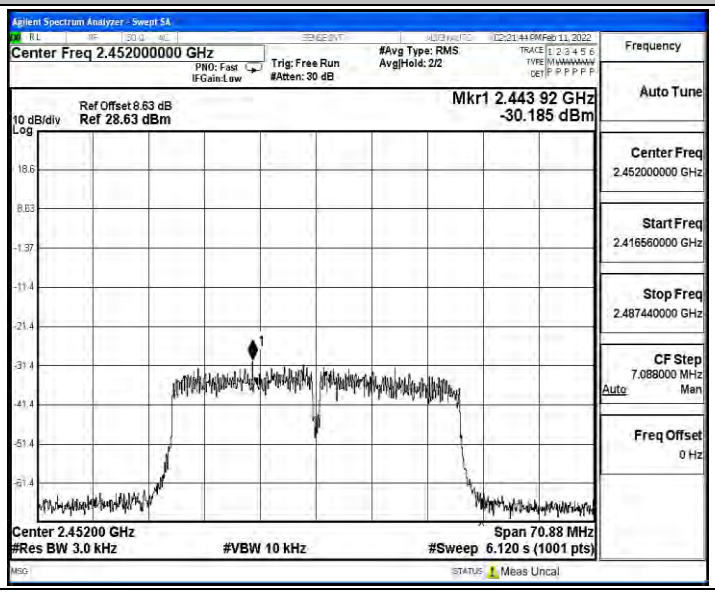

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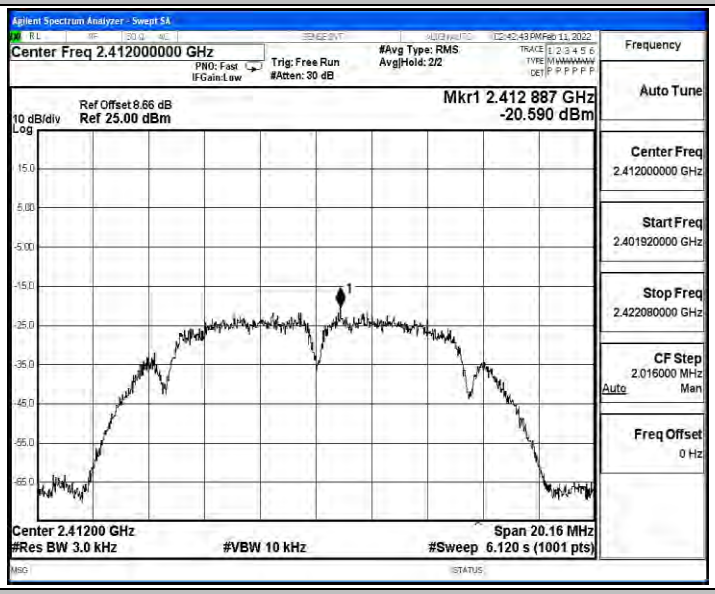

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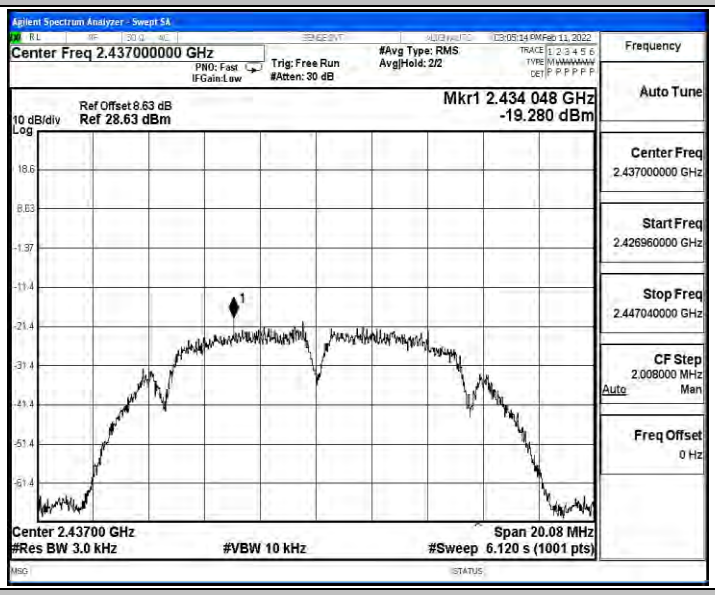

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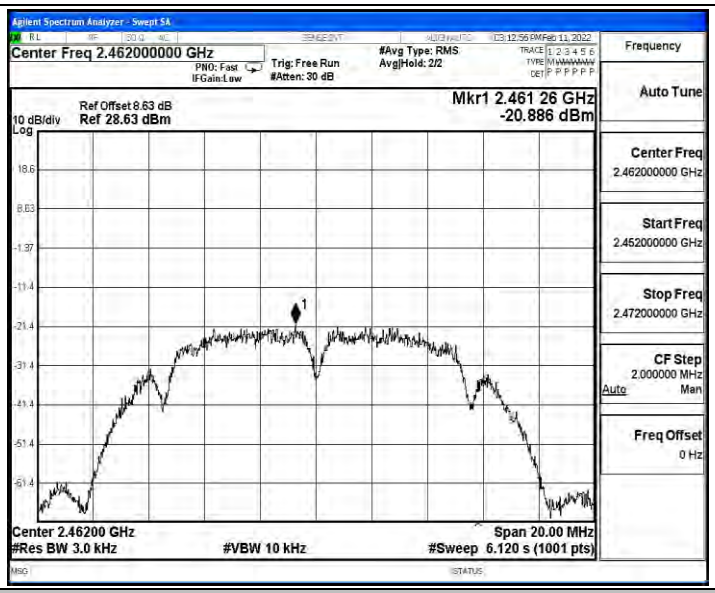

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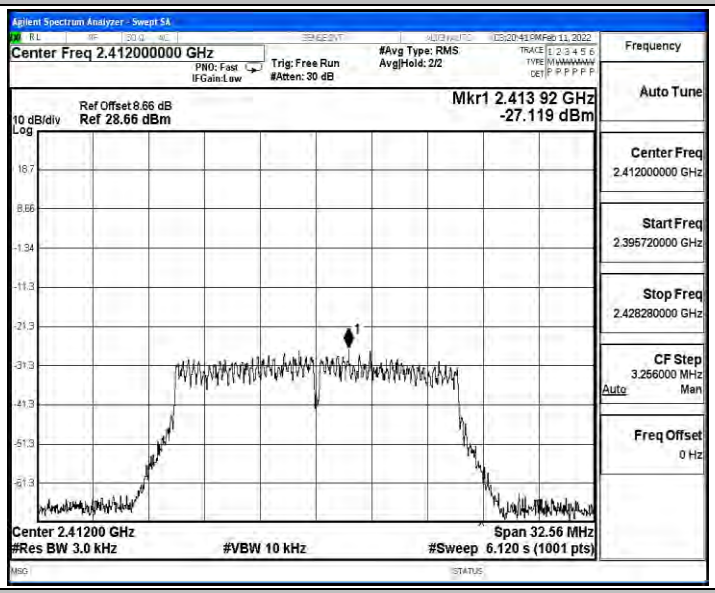

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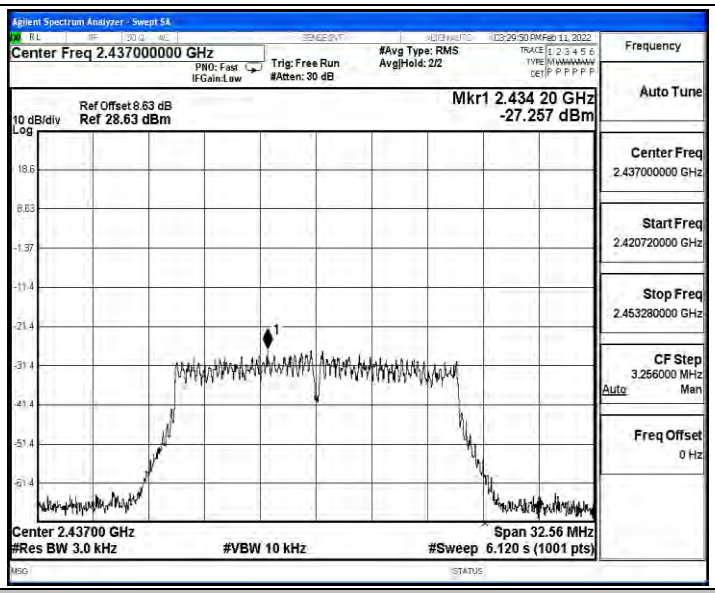

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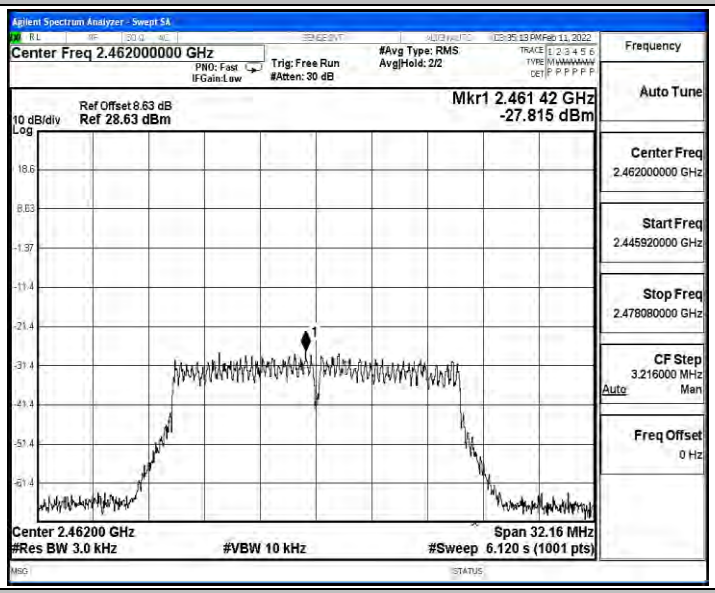
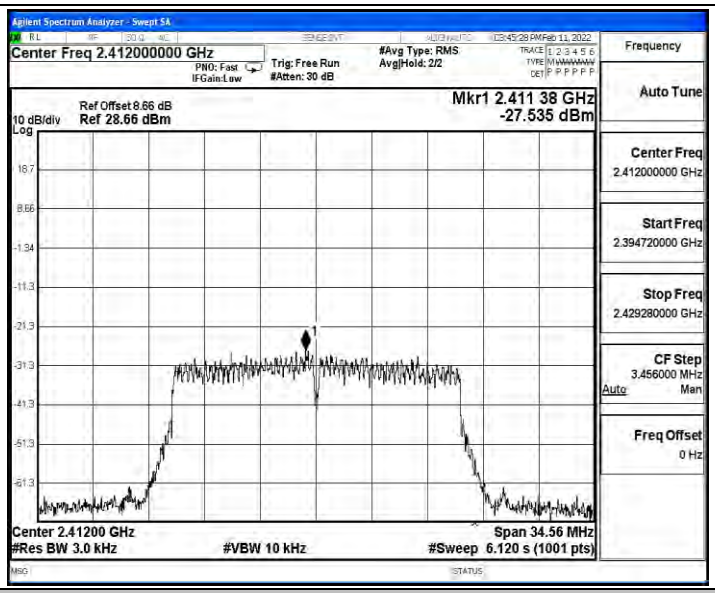
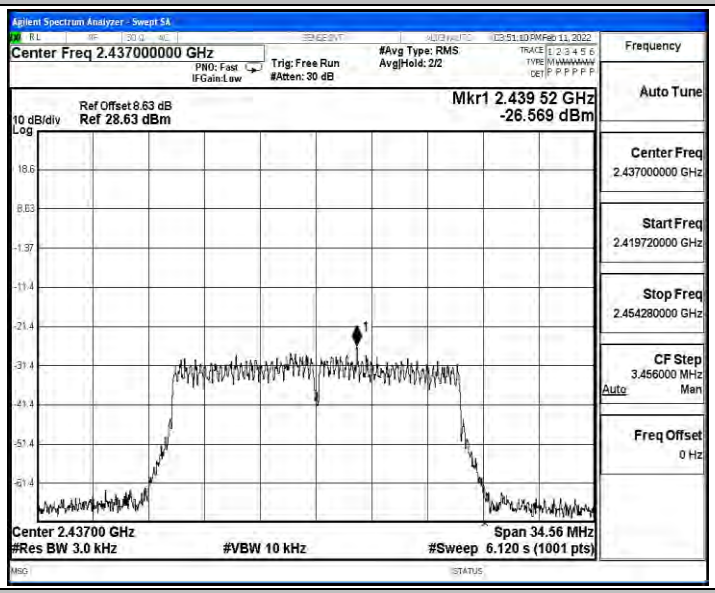


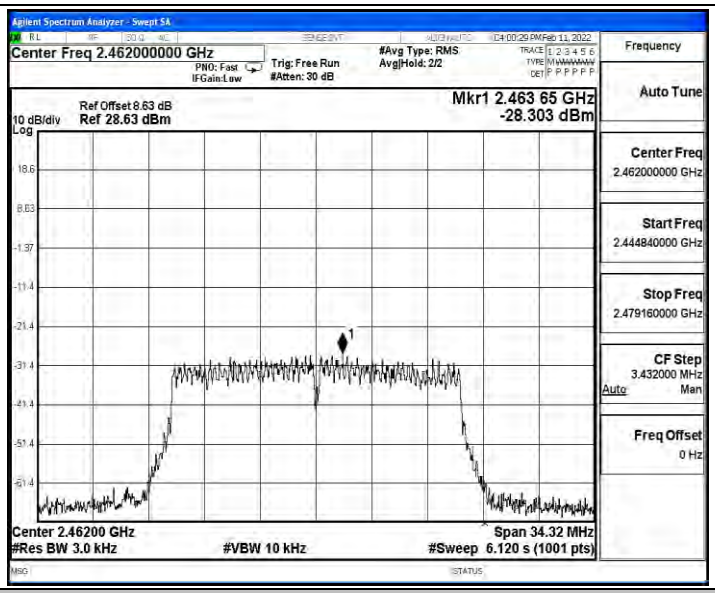
11N20SISO_Ant3_2412



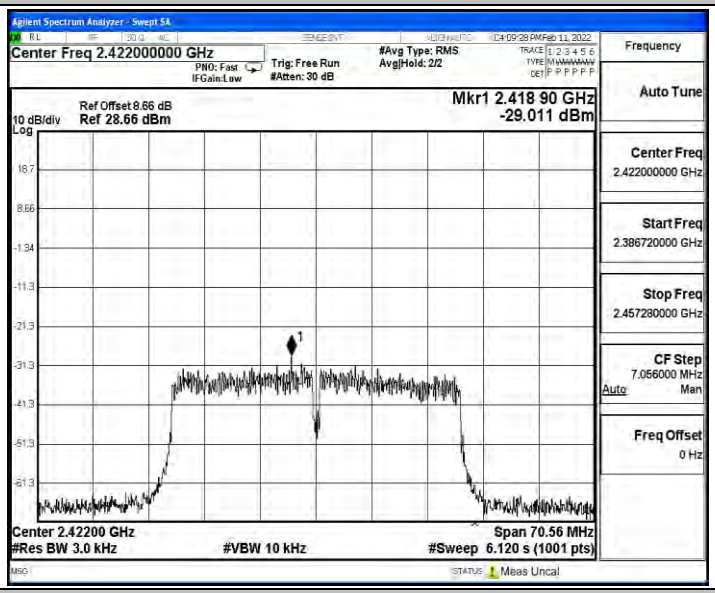
11N20SISO_Ant3_2437



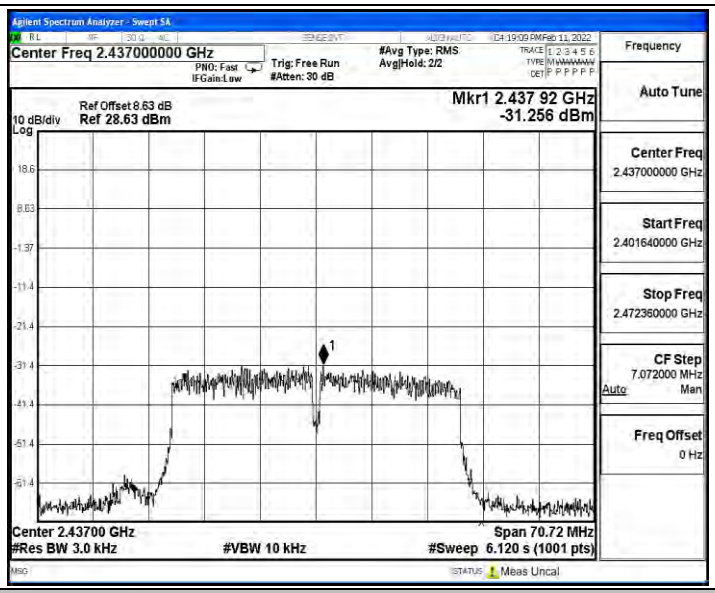
11N20SISO_Ant3_2462



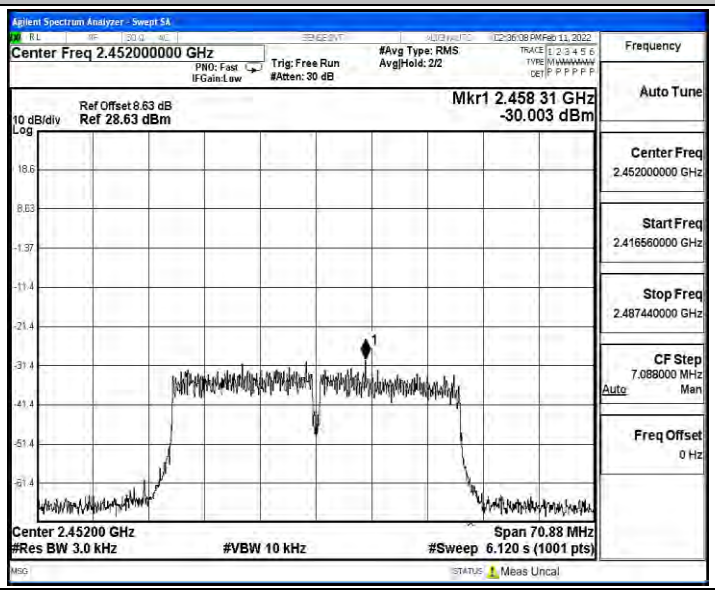
11N40SISO_Ant3_2422



11N40SISO_Ant3_2437



11N40SISO_Ant3_2452



A.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant0	Low	2412	-6.61	-52.95	≤-26.61	PASS
		High	2462	-6.48	-57.88	≤-26.48	PASS
11G	Ant0	Low	2412	-13.18	-53.48	≤-33.18	PASS
		High	2462	-13.34	-57.76	≤-33.34	PASS
11N20SISO	Ant0	Low	2412	-13.17	-54.23	≤-33.17	PASS
		High	2462	-13.34	-57.86	≤-33.34	PASS
11N40SISO	Ant0	Low	2422	-16.66	-53.01	≤-36.66	PASS
		High	2452	-16.17	-57.54	≤-36.17	PASS

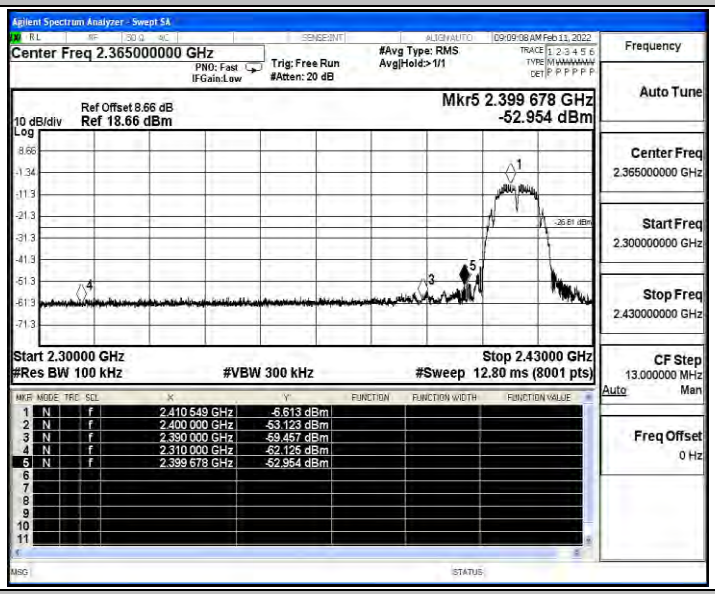
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-6.76	-52.57	≤-26.76	PASS
		High	2462	-6.43	-57.12	≤-26.43	PASS
11G	Ant1	Low	2412	-13.00	-53.81	≤-33	PASS
		High	2462	-13.88	-57.08	≤-33.88	PASS
11N20SISO	Ant1	Low	2412	-13.15	-53.18	≤-33.15	PASS
		High	2462	-13.30	-57.86	≤-33.3	PASS
11N40SISO	Ant1	Low	2422	-16.52	-52.79	≤-36.52	PASS
		High	2452	-16.15	-57.47	≤-36.15	PASS

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant2	Low	2412	-6.87	-52.06	≤-26.87	PASS
		High	2462	-6.77	-57.46	≤-26.77	PASS
11G	Ant2	Low	2412	-12.99	-51.05	≤-32.99	PASS
		High	2462	-13.28	-57.6	≤-33.28	PASS
11N20SISO	Ant2	Low	2412	-13.02	-53.27	≤-33.02	PASS
		High	2462	-13.31	-57.85	≤-33.31	PASS
11N40SISO	Ant2	Low	2422	-16.73	-52.39	≤-36.73	PASS
		High	2452	-16.61	-56.65	≤-36.61	PASS

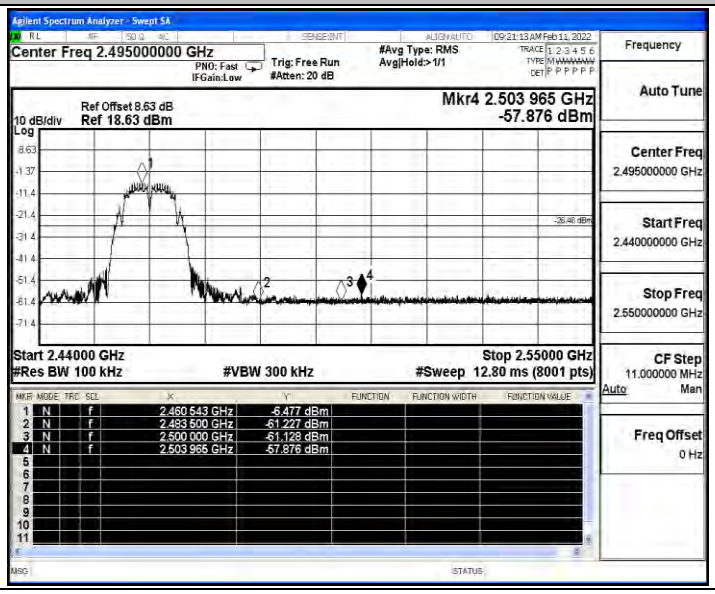
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant3	Low	2412	-7.09	-54.39	≤-27.09	PASS
		High	2462	-7.04	-57.34	≤-27.04	PASS
11G	Ant3	Low	2412	-13.22	-53.91	≤-33.22	PASS
		High	2462	-13.42	-57.22	≤-33.42	PASS
11N20SISO	Ant3	Low	2412	-12.62	-52.66	≤-32.62	PASS
		High	2462	-13.48	-57.36	≤-33.48	PASS
11N40SISO	Ant3	Low	2422	-16.64	-52.71	≤-36.64	PASS
		High	2452	-16.59	-57.43	≤-36.59	PASS

Test Graphs

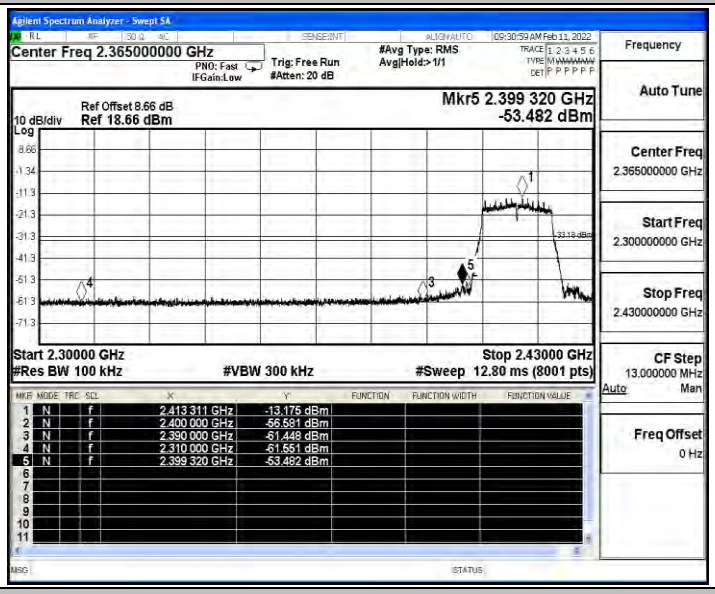
11B_Ant0_Low_2412



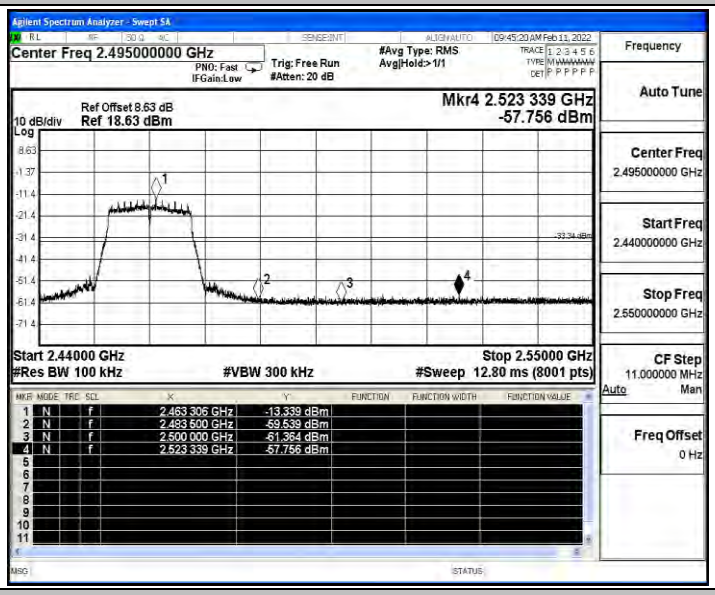
11B_Ant0_High_2462



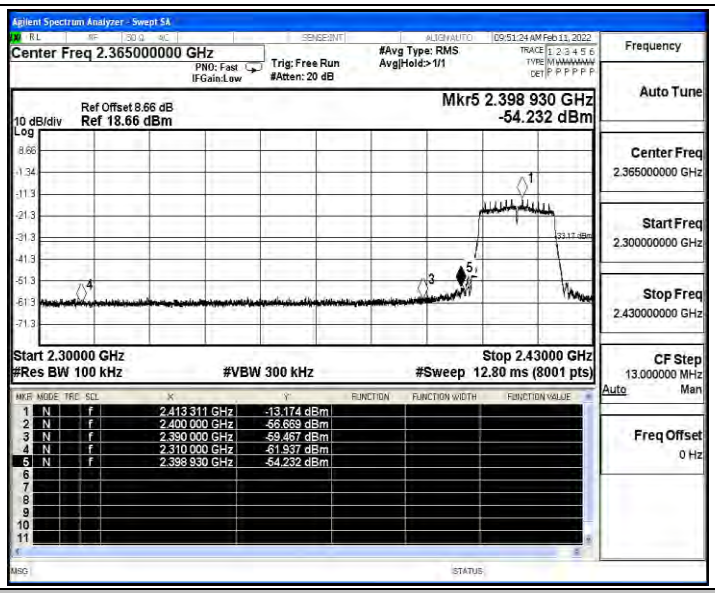
11G_Ant0_Low_2412



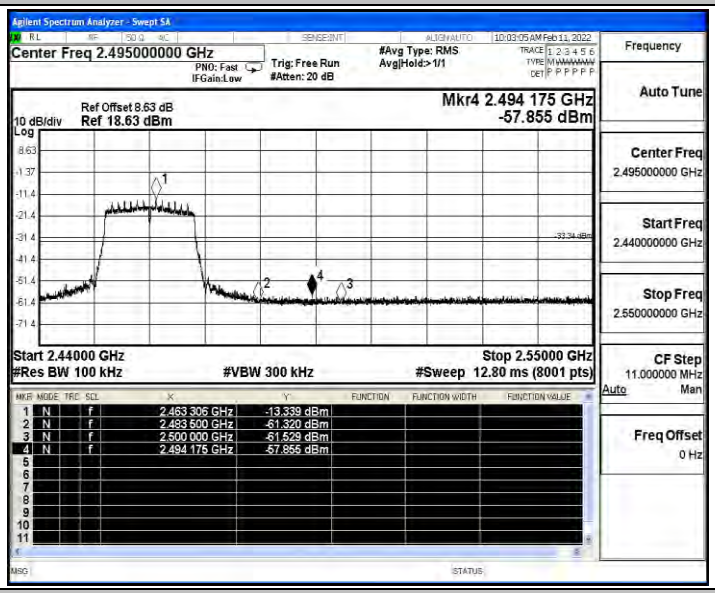
11G_Ant0_High_2462



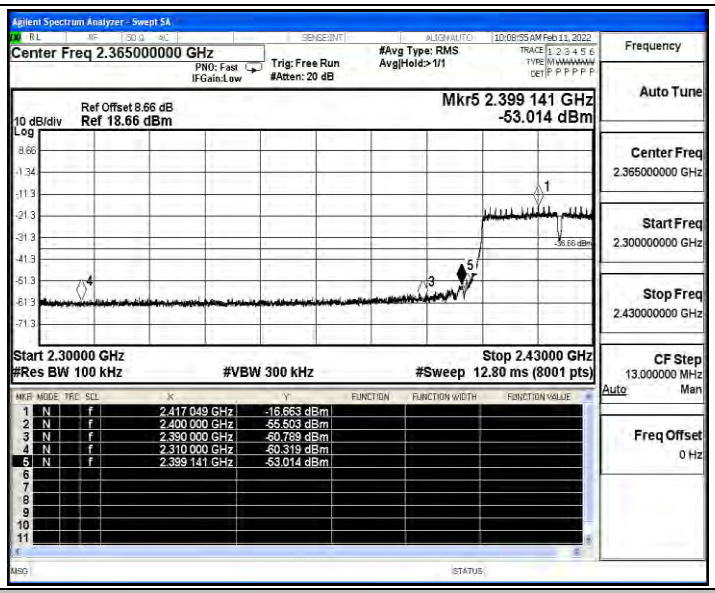
11N20SISO_Ant0_Low_2412



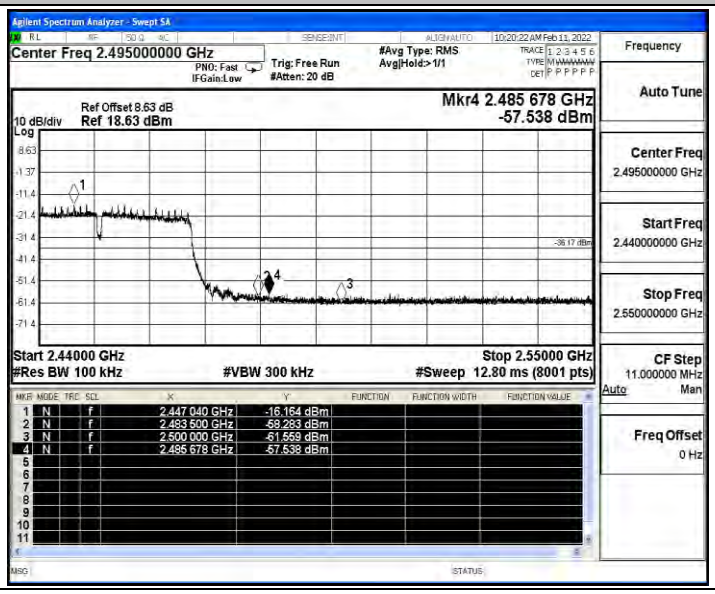
11N20SISO_Ant0_High_2462



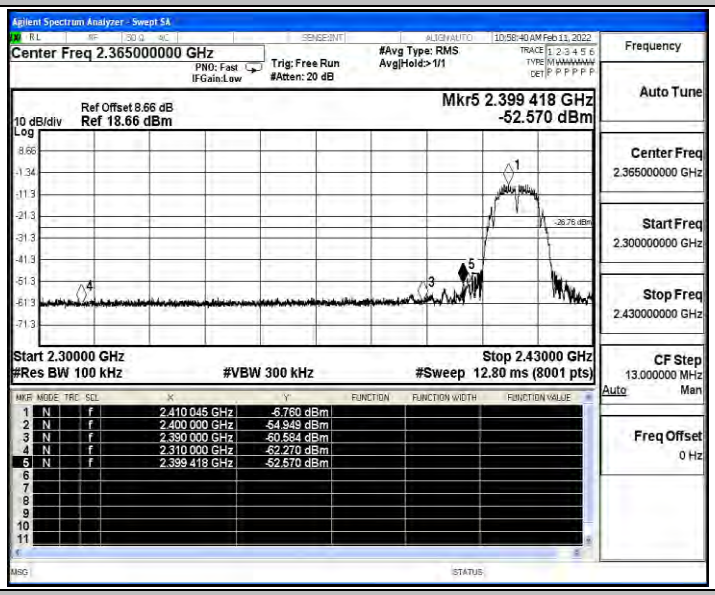
11N40SISO_Ant0_Low_2422



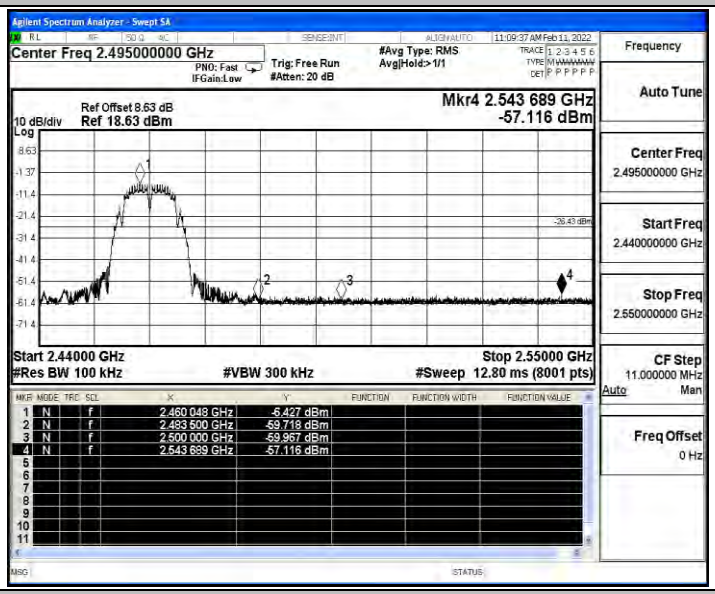
11N40SISO_Ant0_High_2452



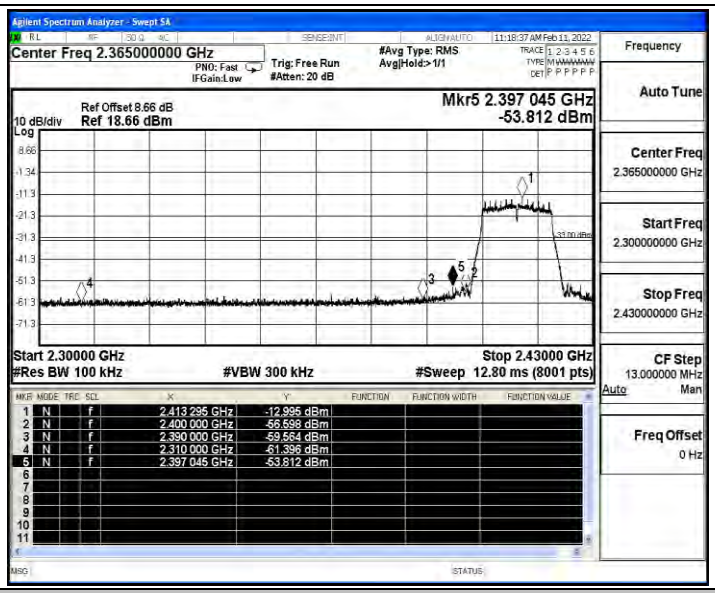
11B_Ant1_Low_2412



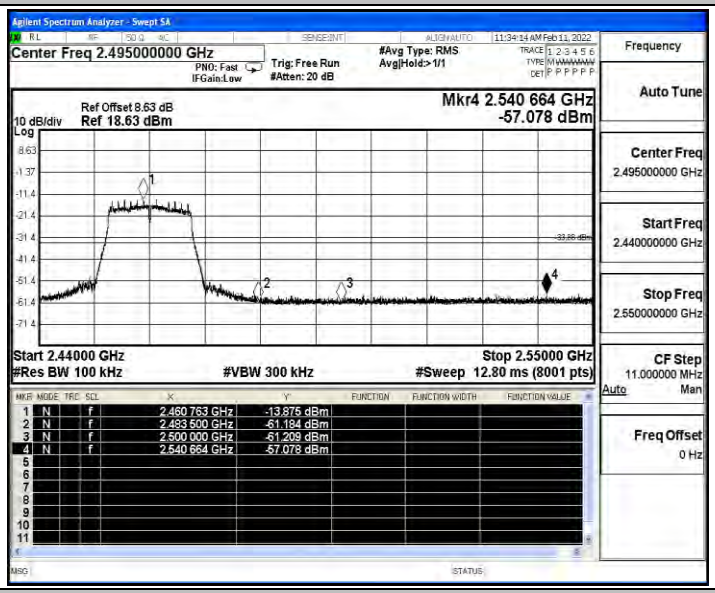
11B_Ant1_High_2462



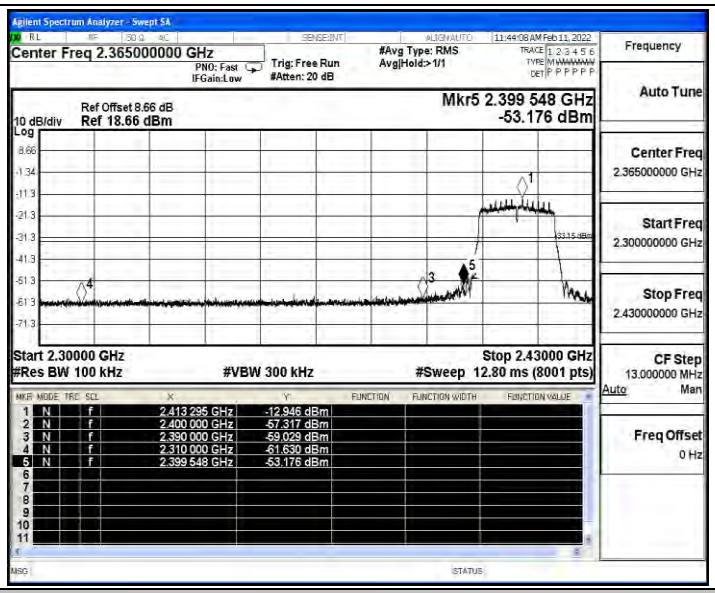
11G_Ant1_Low_2412



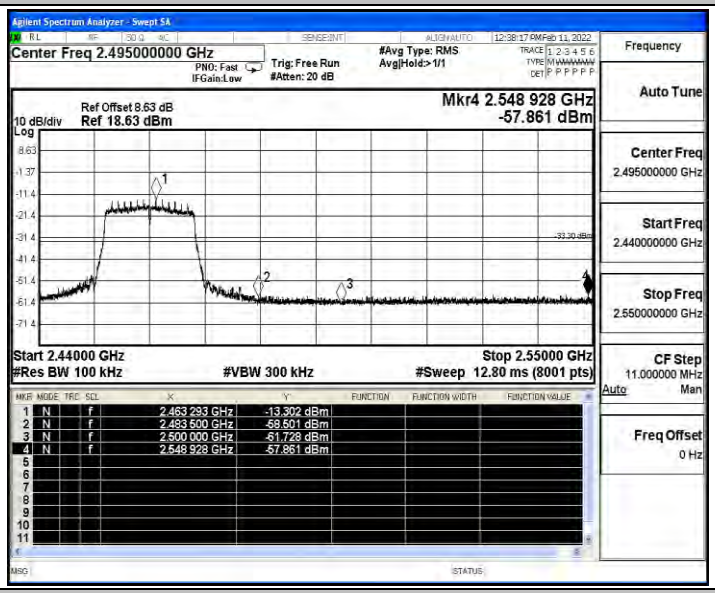
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



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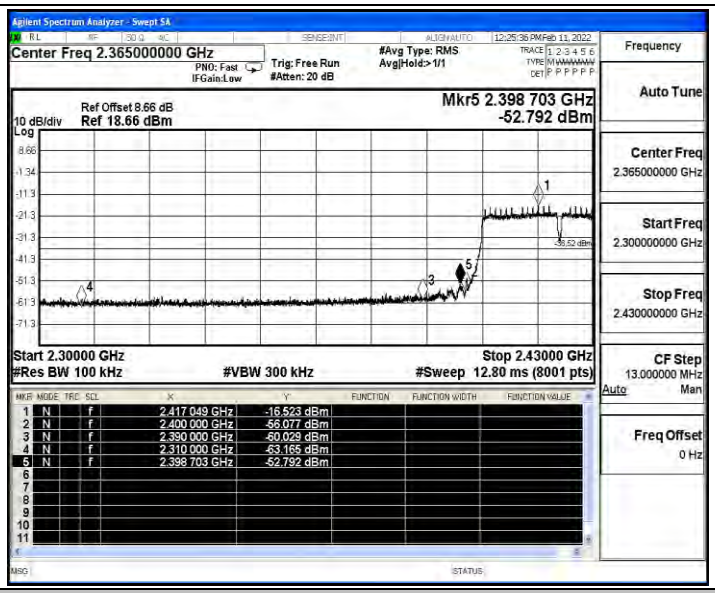
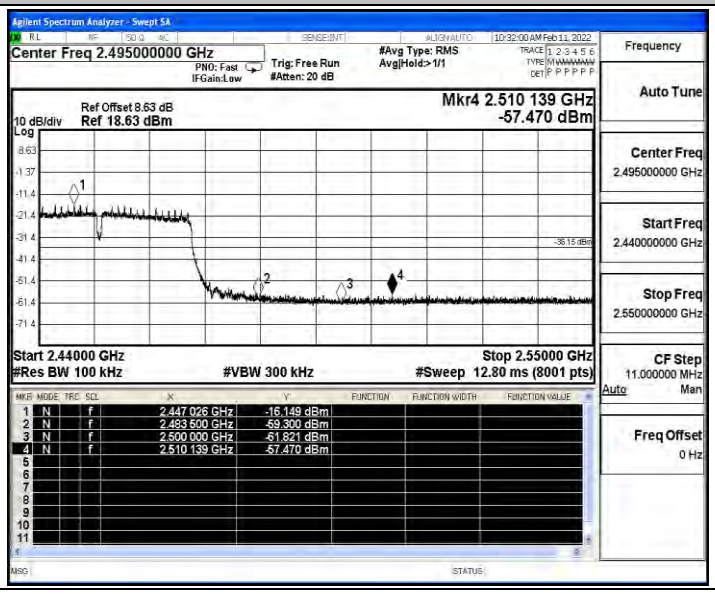
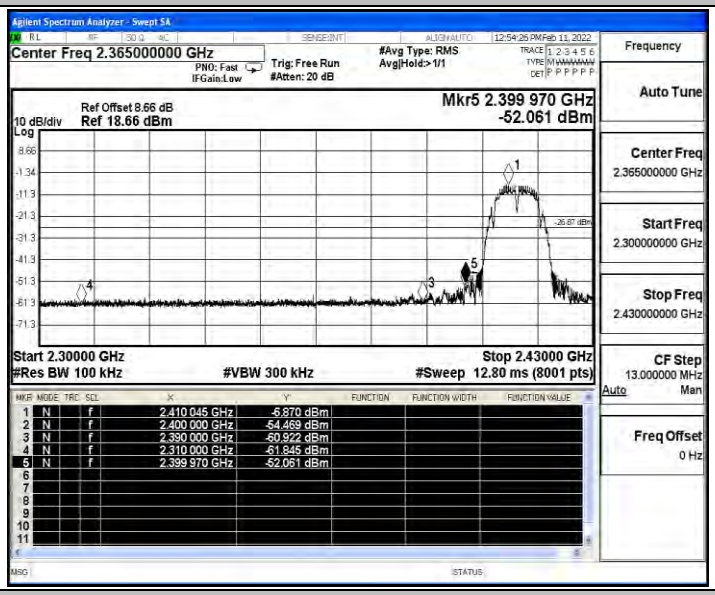


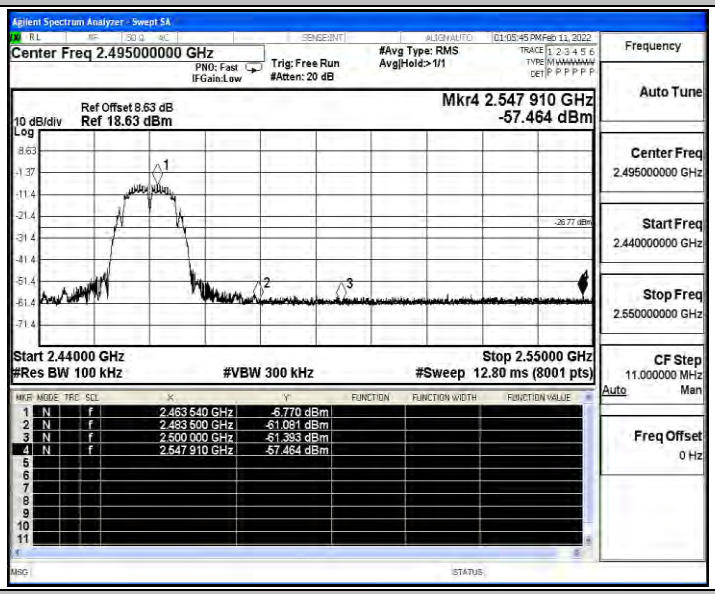
11N40SISO_Ant1_High_2452



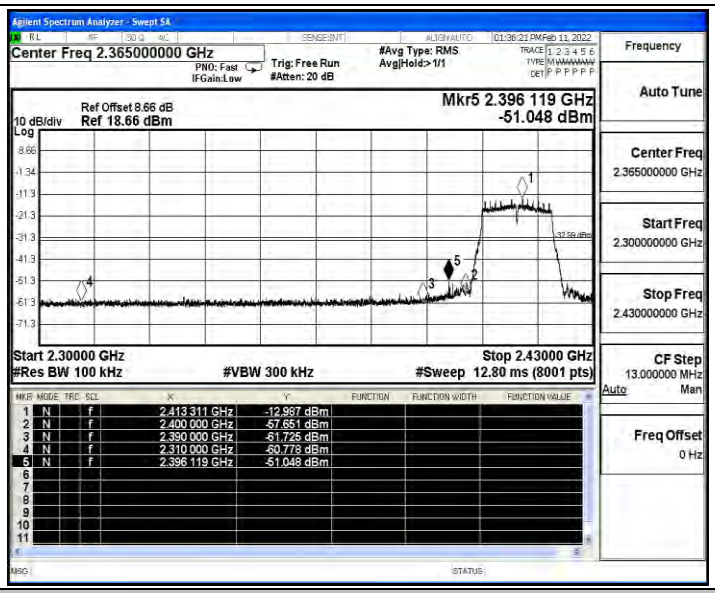
11B_Ant2_Low_2412



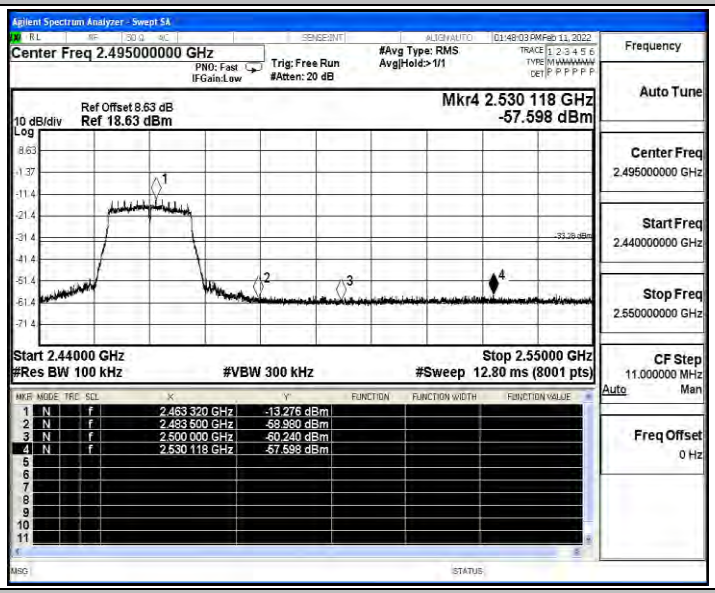
11B_Ant2_High_2462



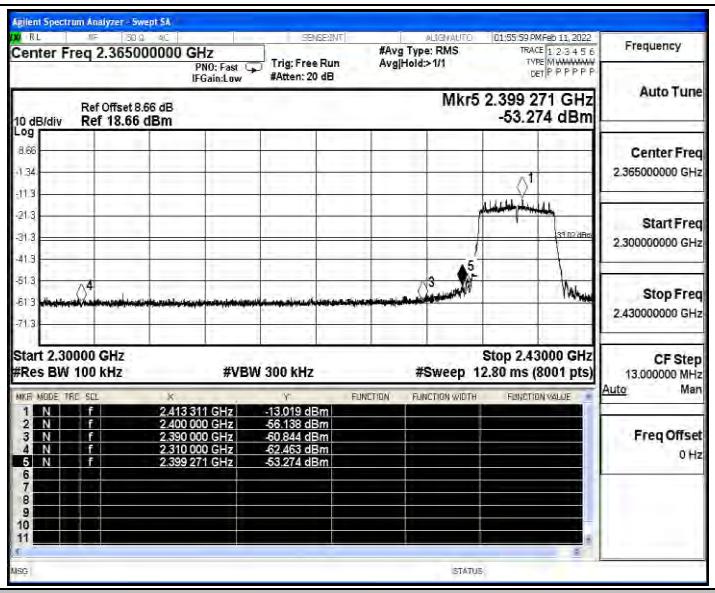
11G_Ant2_Low_2412



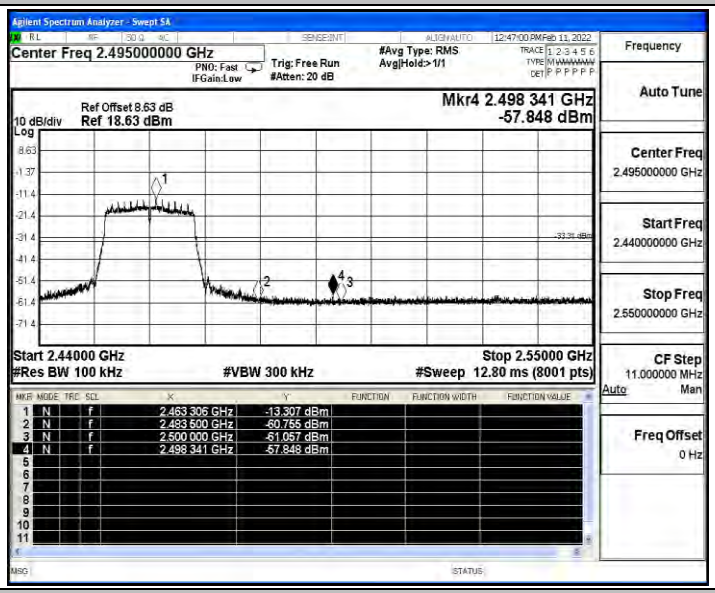
11G_Ant2_High_2462



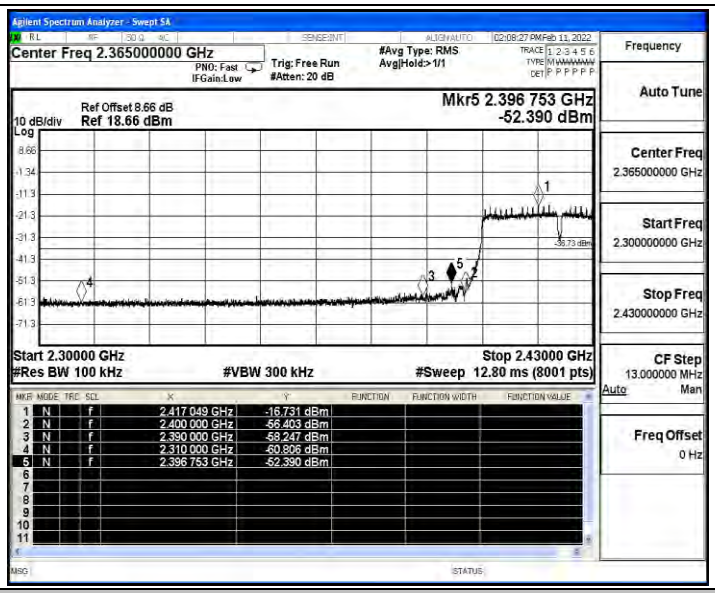
11N20SISO_Ant2_Low_2412



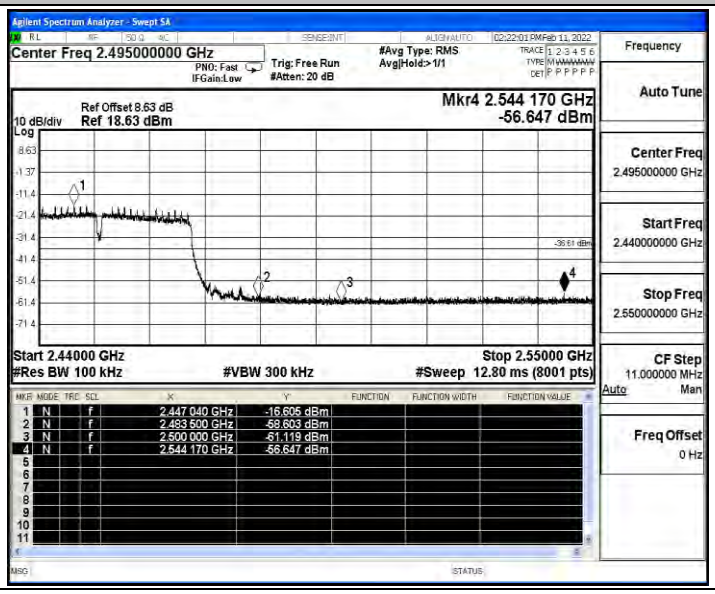
11N20SISO_Ant2_High_2462



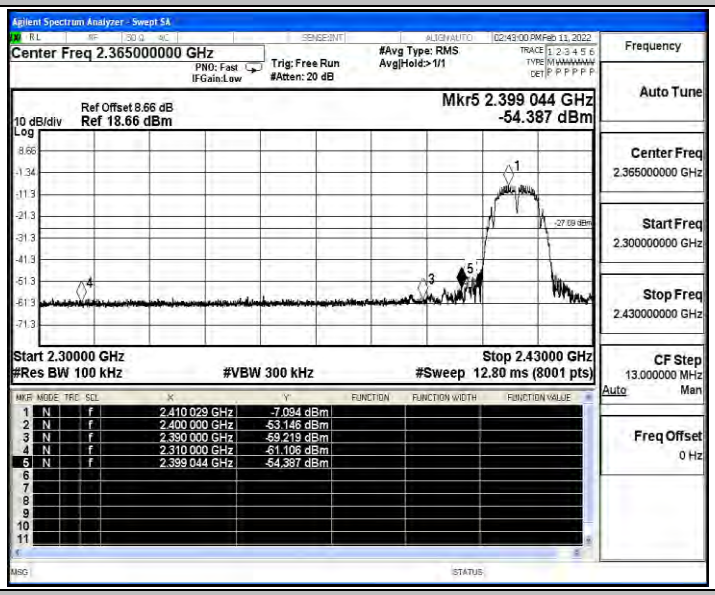
11N40SISO_Ant2_Low_2422



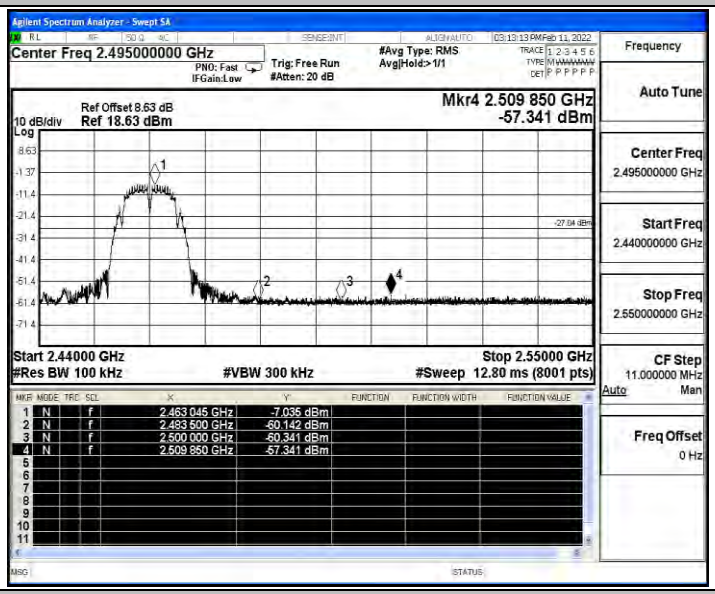
11N40SISO_Ant2_High_2452



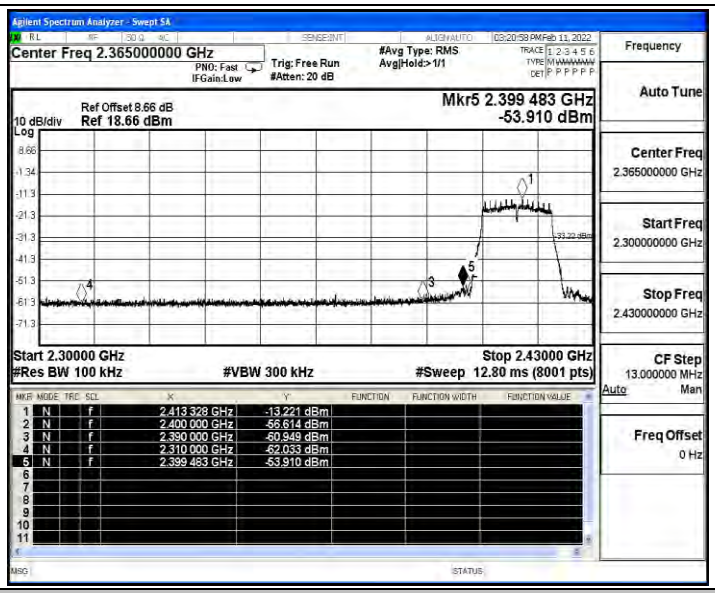
11B_Ant3_Low_2412



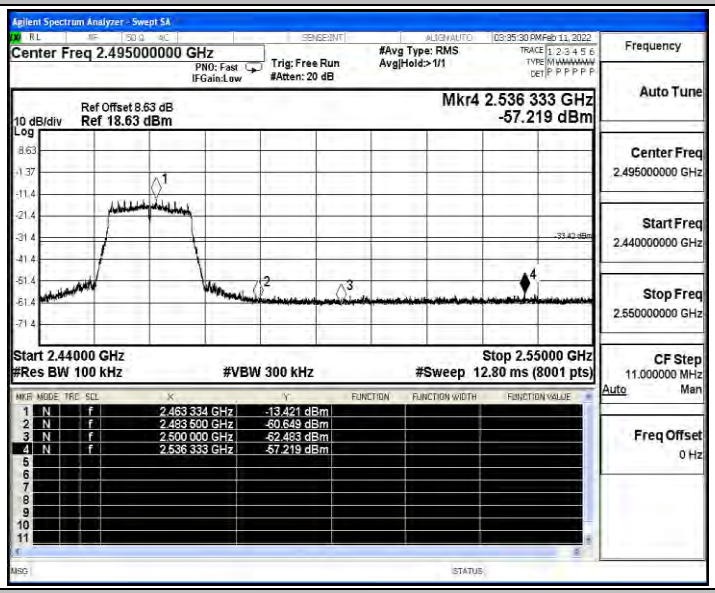
11B_Ant3_High_2462



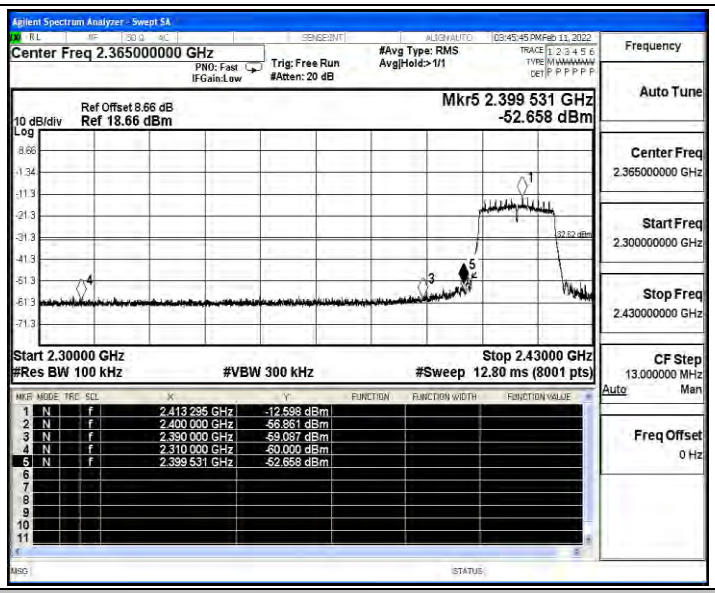
11G_Ant3_Low_2412



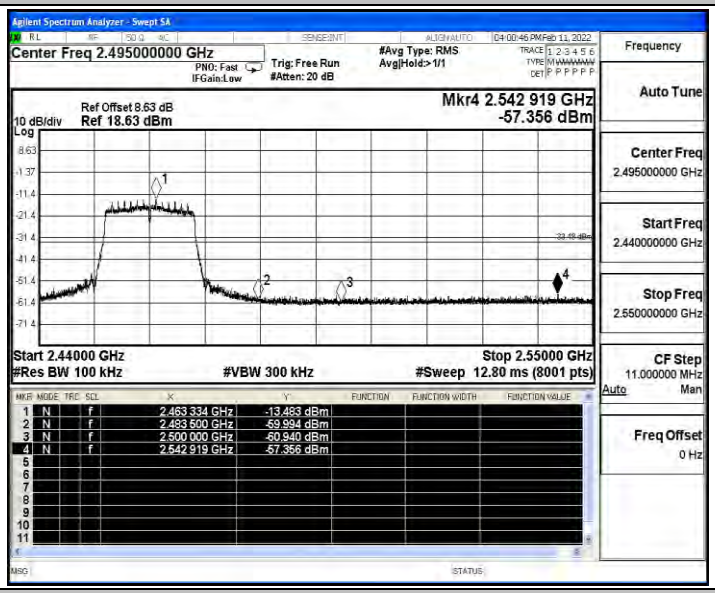
11G_Ant3_High_2462



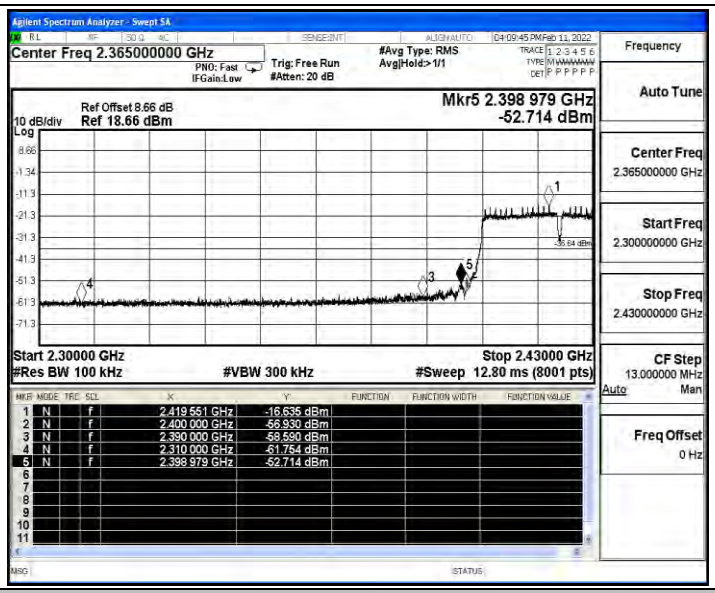
11N20SISO_Ant3_Low_2412



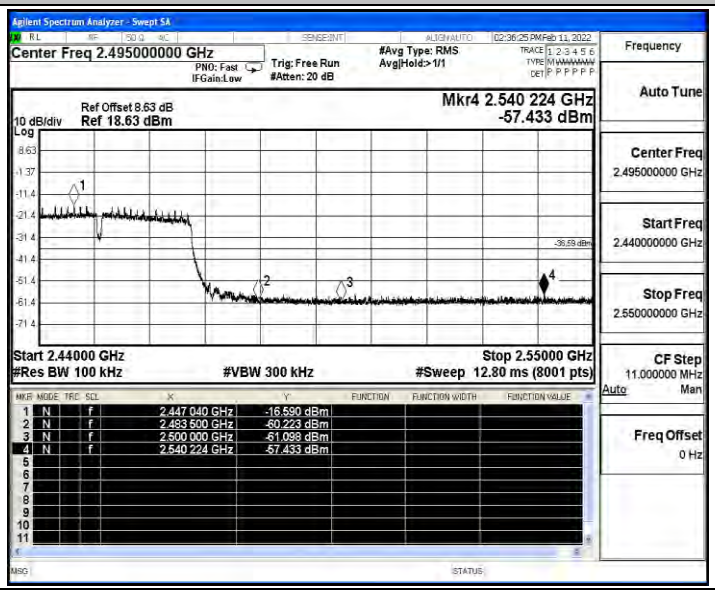
11N20SISO_Ant3_High_2462



11N40SISO_Ant3_Low_2422



11N40SISO_Ant3_High_2452



A.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant0	2412	Reference	-6.55	-6.55	---	PASS
			30~1000	-6.55	-61	≤-26.55	PASS
			1000~26500	-6.55	-46.19	≤-26.55	PASS
		2437	Reference	-6.71	-6.71	---	PASS
			30~1000	-6.71	-60.22	≤-26.71	PASS
			1000~26500	-6.71	-45.03	≤-26.71	PASS
		2462	Reference	-6.51	-6.51	---	PASS
			30~1000	-6.51	-60.6	≤-26.51	PASS
			1000~26500	-6.51	-41.83	≤-26.51	PASS
11G	Ant0	2412	Reference	-13.47	-13.47	---	PASS
			30~1000	-13.47	-60.7	≤-33.47	PASS
			1000~26500	-13.47	-46.76	≤-33.47	PASS
		2437	Reference	-13.60	-13.60	---	PASS
			30~1000	-13.60	-60.69	≤-33.6	PASS
			1000~26500	-13.60	-46.04	≤-33.6	PASS
		2462	Reference	-13.33	-13.33	---	PASS
			30~1000	-13.33	-60.52	≤-33.33	PASS
			1000~26500	-13.33	-45.69	≤-33.33	PASS
11N20SISO	Ant0	2412	Reference	-13.28	-13.28	---	PASS
			30~1000	-13.28	-60.51	≤-33.28	PASS
			1000~26500	-13.28	-46.13	≤-33.28	PASS
		2437	Reference	-13.09	-13.09	---	PASS
			30~1000	-13.09	-60.8	≤-33.09	PASS
			1000~26500	-13.09	-45.44	≤-33.09	PASS
		2462	Reference	-13.23	-13.23	---	PASS
			30~1000	-13.23	-60.55	≤-33.23	PASS
			1000~26500	-13.23	-45.76	≤-33.23	PASS
11N40SISO	Ant0	2422	Reference	-16.67	-16.67	---	PASS
			30~1000	-16.67	-60.86	≤-36.67	PASS
			1000~26500	-16.67	-46.16	≤-36.67	PASS
		2437	Reference	-15.87	-15.87	---	PASS
			30~1000	-15.87	-60.42	≤-35.87	PASS
			1000~26500	-15.87	-46.36	≤-35.87	PASS
		2452	Reference	-16.21	-16.21	---	PASS
			30~1000	-16.21	-60.72	≤-36.21	PASS
			1000~26500	-16.21	-45.95	≤-36.21	PASS

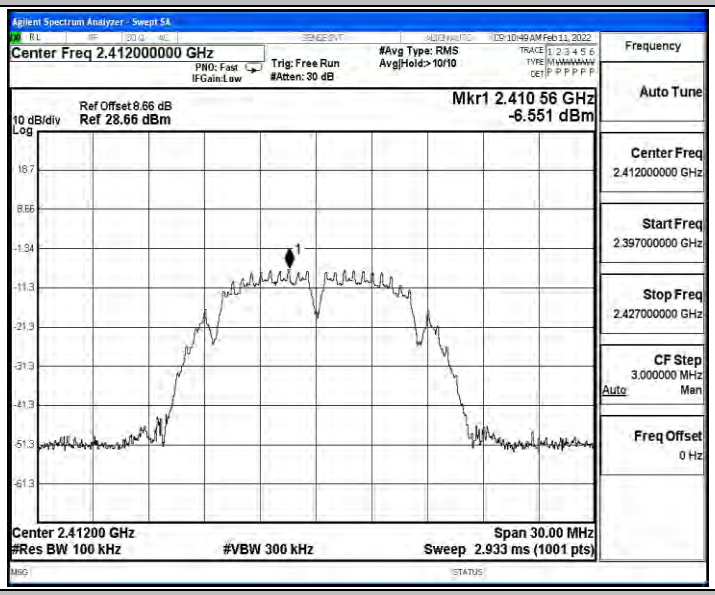
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-7.07	-7.07	---	PASS
			30~1000	-7.07	-60.19	≤-27.07	PASS
			1000~26500	-7.07	-45.48	≤-27.07	PASS
		2437	Reference	-6.60	-6.60	---	PASS
			30~1000	-6.60	-60.82	≤-26.6	PASS
			1000~26500	-6.60	-45.57	≤-26.6	PASS
		2462	Reference	-6.79	-6.79	---	PASS
			30~1000	-6.79	-60.41	≤-26.79	PASS
			1000~26500	-6.79	-46.24	≤-26.79	PASS
11G	Ant1	2412	Reference	-13.48	-13.48	---	PASS
			30~1000	-13.48	-60.52	≤-33.48	PASS
			1000~26500	-13.48	-45.8	≤-33.48	PASS
		2437	Reference	-12.55	-12.55	---	PASS
			30~1000	-12.55	-60.61	≤-32.55	PASS
			1000~26500	-12.55	-46.08	≤-32.55	PASS
		2462	Reference	-12.98	-12.98	---	PASS
			30~1000	-12.98	-60.46	≤-32.98	PASS
			1000~26500	-12.98	-46.42	≤-32.98	PASS
11N20SISO	Ant1	2412	Reference	-13.26	-13.26	---	PASS
			30~1000	-13.26	-59.87	≤-33.26	PASS
			1000~26500	-13.26	-45	≤-33.26	PASS
		2437	Reference	-13.05	-13.05	---	PASS
			30~1000	-13.05	-60.79	≤-33.05	PASS
			1000~26500	-13.05	-45.99	≤-33.05	PASS
		2462	Reference	-13.76	-13.76	---	PASS
			30~1000	-13.76	-60.7	≤-33.76	PASS
			1000~26500	-13.76	-45.8	≤-33.76	PASS
11N40SISO	Ant1	2422	Reference	-16.54	-16.54	---	PASS
			30~1000	-16.54	-59.75	≤-36.54	PASS
			1000~26500	-16.54	-46.26	≤-36.54	PASS
		2437	Reference	-15.73	-15.73	---	PASS
			30~1000	-15.73	-60.4	≤-35.73	PASS
			1000~26500	-15.73	-46.04	≤-35.73	PASS
		2452	Reference	-16.05	-16.05	---	PASS
			30~1000	-16.05	-60.57	≤-36.05	PASS
			1000~26500	-16.05	-46.04	≤-36.05	PASS

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant2	2412	Reference	-6.94	-6.94	---	PASS
			30~1000	-6.94	-60.66	≤-26.94	PASS
			1000~26500	-6.94	-46.12	≤-26.94	PASS
		2437	Reference	-6.75	-6.75	---	PASS
			30~1000	-6.75	-59.92	≤-26.75	PASS
			1000~26500	-6.75	-45.89	≤-26.75	PASS
		2462	Reference	-6.61	-6.61	---	PASS
			30~1000	-6.61	-60.44	≤-26.61	PASS
			1000~26500	-6.61	-45.2	≤-26.61	PASS
11G	Ant2	2412	Reference	-13.02	-13.02	---	PASS
			30~1000	-13.02	-59.03	≤-33.02	PASS
			1000~26500	-13.02	-45.95	≤-33.02	PASS
		2437	Reference	-12.79	-12.79	---	PASS
			30~1000	-12.79	-59.92	≤-32.79	PASS
			1000~26500	-12.79	-45.76	≤-32.79	PASS
		2462	Reference	-13.70	-13.70	---	PASS
			30~1000	-13.70	-59.89	≤-33.7	PASS
			1000~26500	-13.70	-45.82	≤-33.7	PASS
11N20SISO	Ant2	2412	Reference	-13.08	-13.08	---	PASS
			30~1000	-13.08	-60.62	≤-33.08	PASS
			1000~26500	-13.08	-46.09	≤-33.08	PASS
		2437	Reference	-13.67	-13.67	---	PASS
			30~1000	-13.67	-60.98	≤-33.67	PASS
			1000~26500	-13.67	-45.76	≤-33.67	PASS
		2462	Reference	-13.07	-13.07	---	PASS
			30~1000	-13.07	-60.47	≤-33.07	PASS
			1000~26500	-13.07	-46.5	≤-33.07	PASS
11N40SISO	Ant2	2422	Reference	-16.57	-16.57	---	PASS
			30~1000	-16.57	-60.19	≤-36.57	PASS
			1000~26500	-16.57	-45.68	≤-36.57	PASS
		2437	Reference	-16.34	-16.34	---	PASS
			30~1000	-16.34	-60.59	≤-36.34	PASS
			1000~26500	-16.34	-46.24	≤-36.34	PASS
		2452	Reference	-16.48	-16.48	---	PASS
			30~1000	-16.48	-59.97	≤-36.48	PASS
			1000~26500	-16.48	-45.92	≤-36.48	PASS

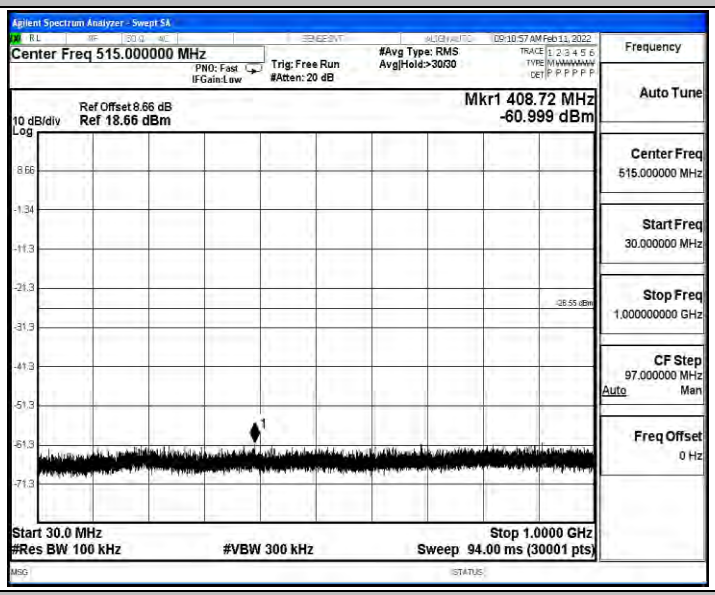
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant3	2412	Reference	-7.24	-7.24	---	PASS
			30~1000	-7.24	-60.28	≤-27.24	PASS
			1000~26500	-7.24	-46.12	≤-27.24	PASS
		2437	Reference	-6.68	-6.68	---	PASS
			30~1000	-6.68	-59.46	≤-26.68	PASS
			1000~26500	-6.68	-45.99	≤-26.68	PASS
		2462	Reference	-6.52	-6.52	---	PASS
			30~1000	-6.52	-60.02	≤-26.52	PASS
			1000~26500	-6.52	-46.36	≤-26.52	PASS
11G	Ant3	2412	Reference	-13.02	-13.02	---	PASS
			30~1000	-13.02	-60.34	≤-33.02	PASS
			1000~26500	-13.02	-45.57	≤-33.02	PASS
		2437	Reference	-13.39	-13.39	---	PASS
			30~1000	-13.39	-60.34	≤-33.39	PASS
			1000~26500	-13.39	-45.33	≤-33.39	PASS
		2462	Reference	-13.12	-13.12	---	PASS
			30~1000	-13.12	-59.51	≤-33.12	PASS
			1000~26500	-13.12	-46.63	≤-33.12	PASS
11N20SISO	Ant3	2412	Reference	-12.54	-12.54	---	PASS
			30~1000	-12.54	-60.98	≤-32.54	PASS
			1000~26500	-12.54	-46.11	≤-32.54	PASS
		2437	Reference	-12.60	-12.60	---	PASS
			30~1000	-12.60	-60.64	≤-32.6	PASS
			1000~26500	-12.60	-46.23	≤-32.6	PASS
		2462	Reference	-13.72	-13.72	---	PASS
			30~1000	-13.72	-60.41	≤-33.72	PASS
			1000~26500	-13.72	-45.65	≤-33.72	PASS
11N40SISO	Ant3	2422	Reference	-16.55	-16.55	---	PASS
			30~1000	-16.55	-60.29	≤-36.55	PASS
			1000~26500	-16.55	-46.13	≤-36.55	PASS
		2437	Reference	-16.24	-16.24	---	PASS
			30~1000	-16.24	-60.71	≤-36.24	PASS
			1000~26500	-16.24	-46.22	≤-36.24	PASS
		2452	Reference	-16.62	-16.62	---	PASS
			30~1000	-16.62	-60.59	≤-36.62	PASS
			1000~26500	-16.62	-46.11	≤-36.62	PASS

Test Graphs

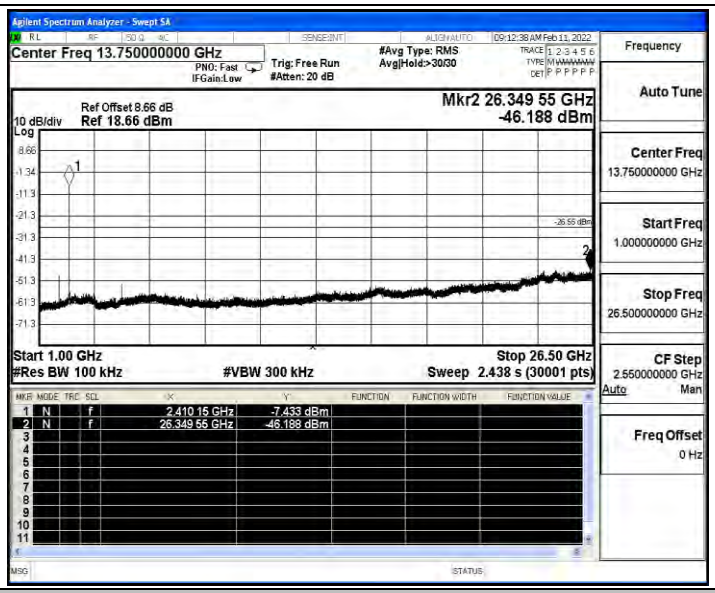
11B_Ant0_2412_0~Reference



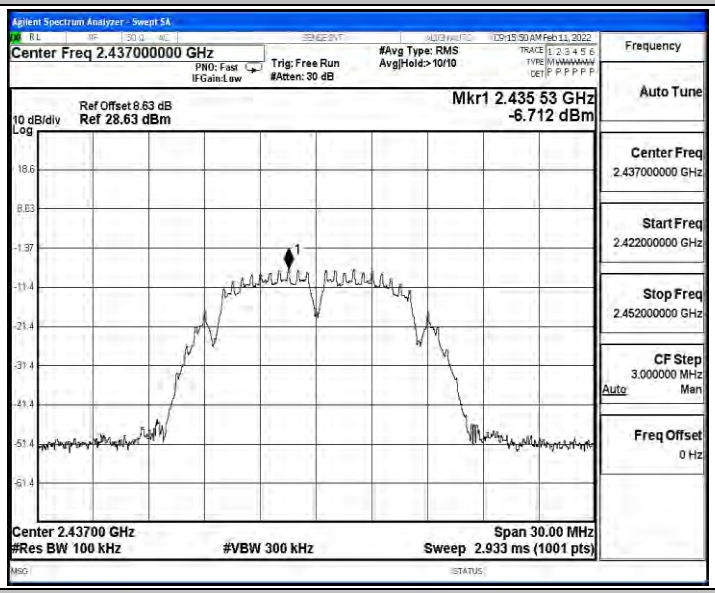
11B_Ant0_2412_30~1000



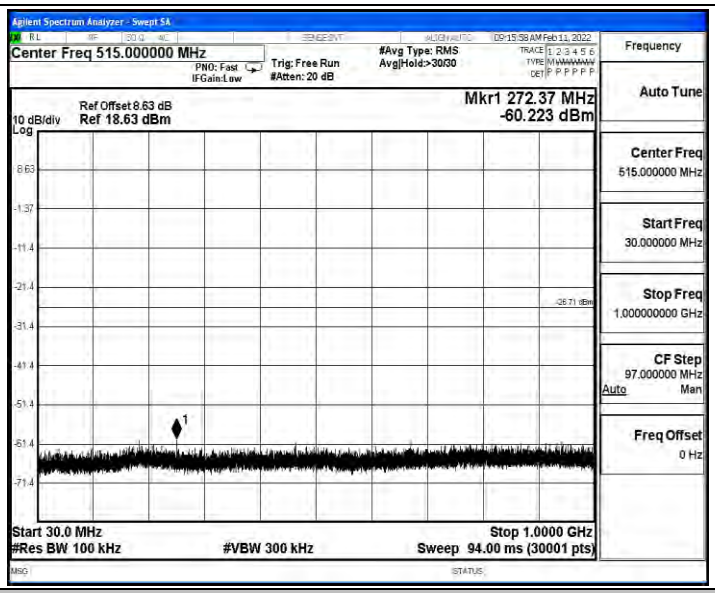
11B_Ant0_2412_1000~26500



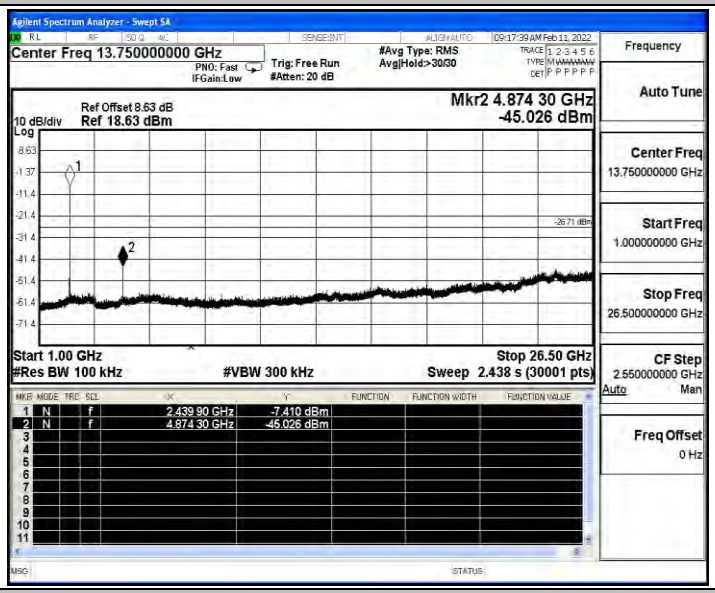
11B_Ant0_2437_0~Reference



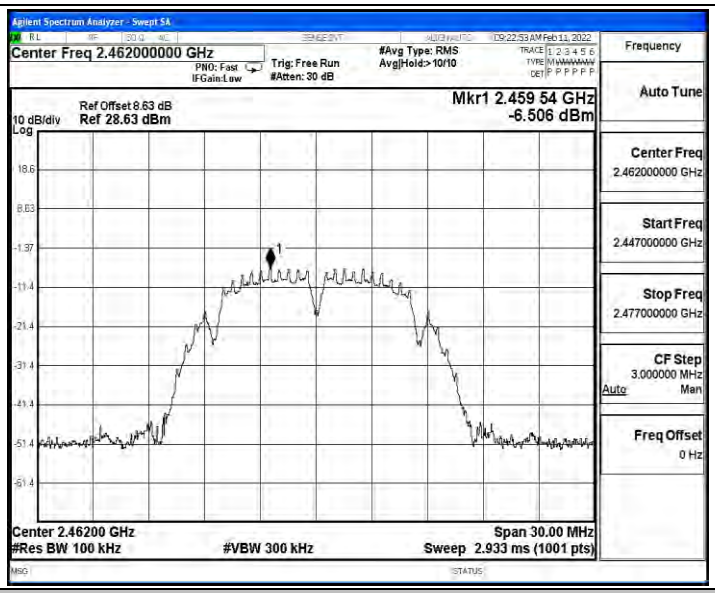
11B_Ant0_2437_30~1000



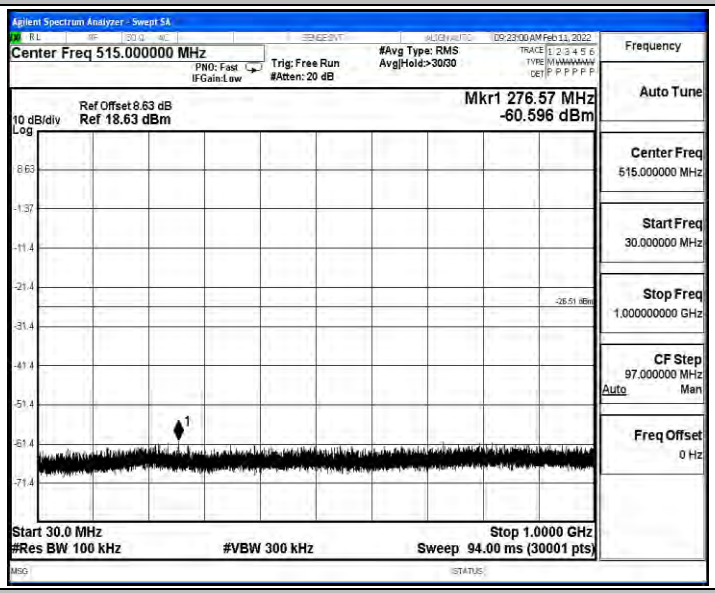
11B_Ant0_2437_1000~26500



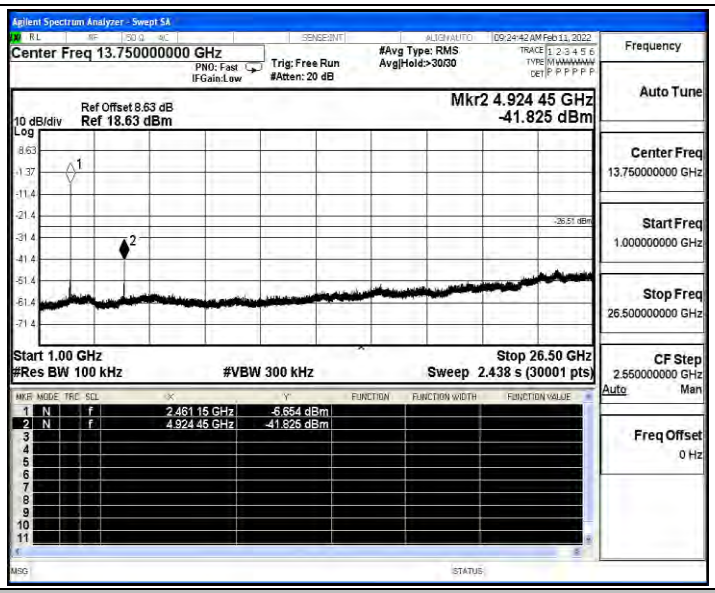
11B_Ant0_2462_0~Reference



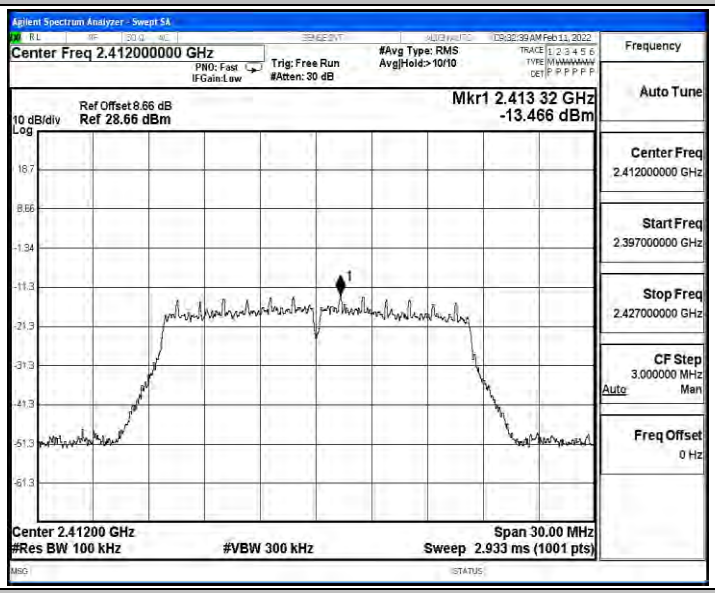
11B_Ant0_2462_30~1000



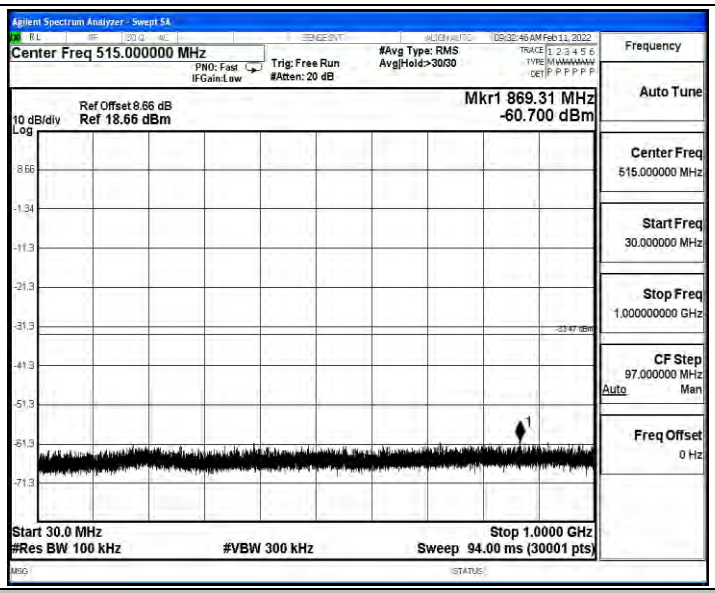
11B_Ant0_2462_1000~26500



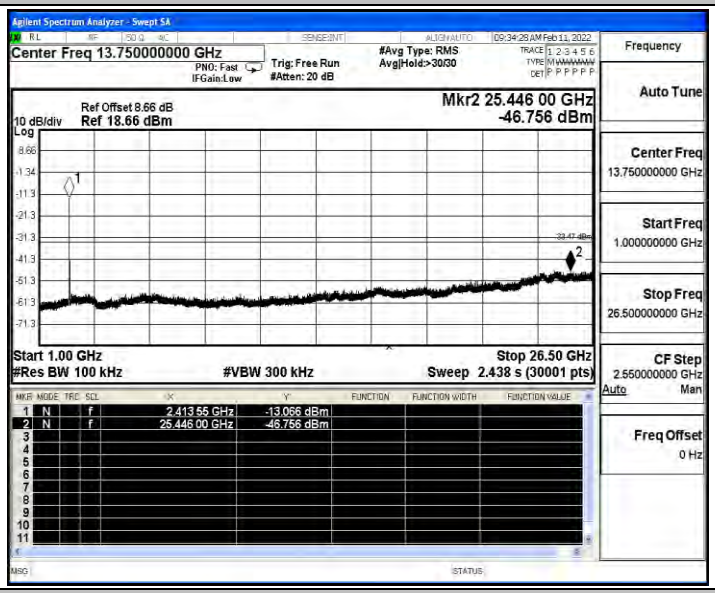
11G_Ant0_2412_0~Reference



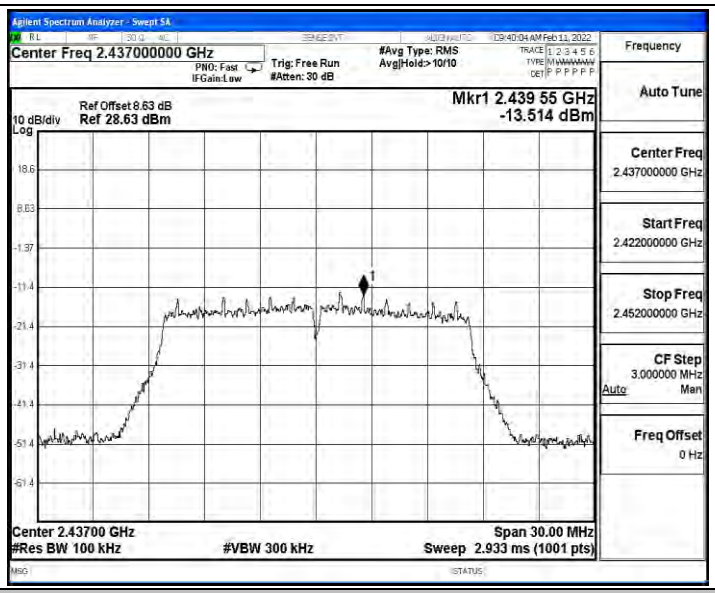
11G_Ant0_2412_30~1000



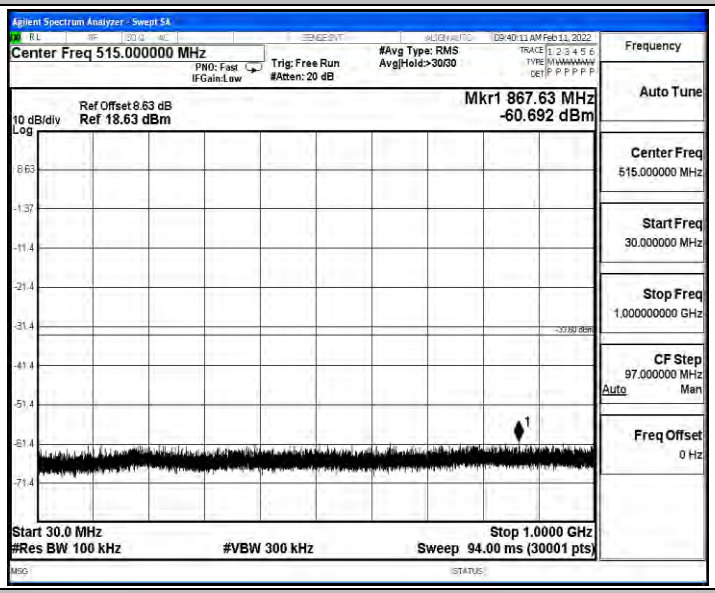
11G_Ant0_2412_1000~26500



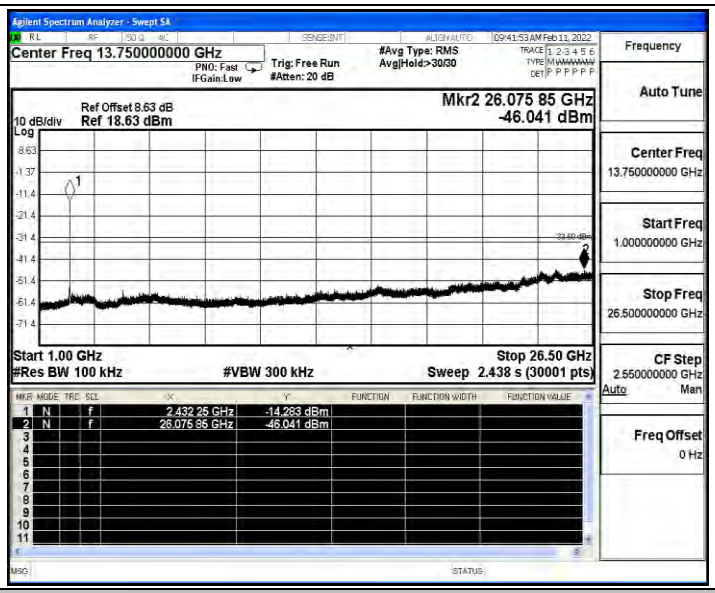
11G_Ant0_2437_0~Reference



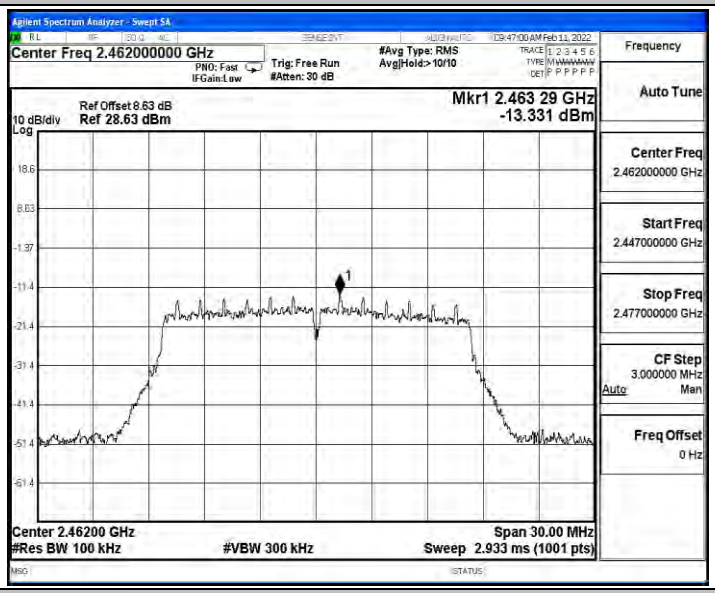
11G_Ant0_2437_30~1000



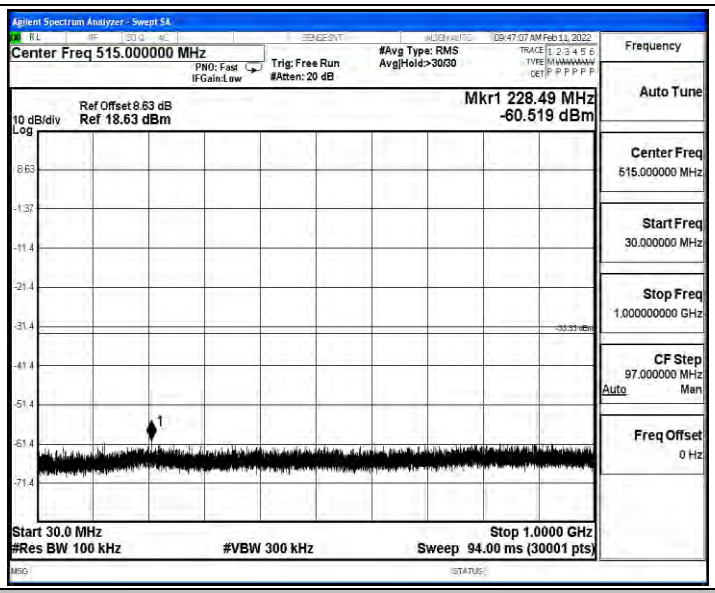
11G_Ant0_2437_1000~26500



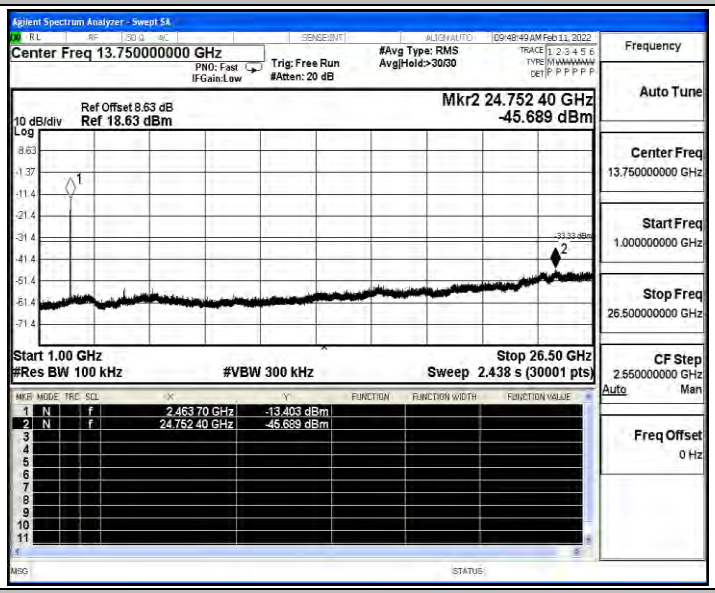
11G_Ant0_2462_0~Reference



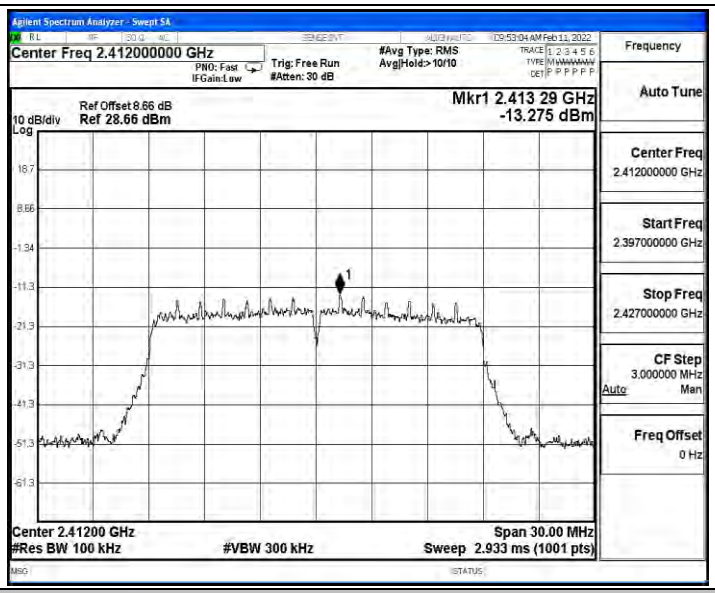
11G_Ant0_2462_30~1000



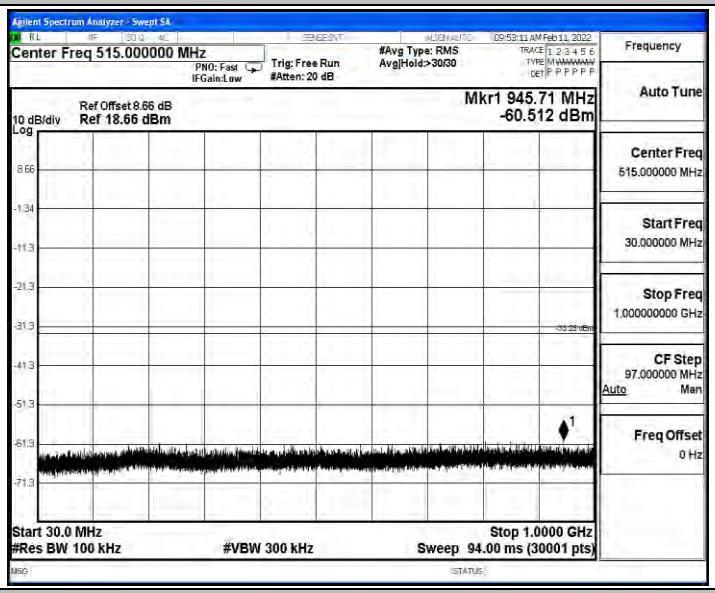
11G_Ant0_2462_1000~26500



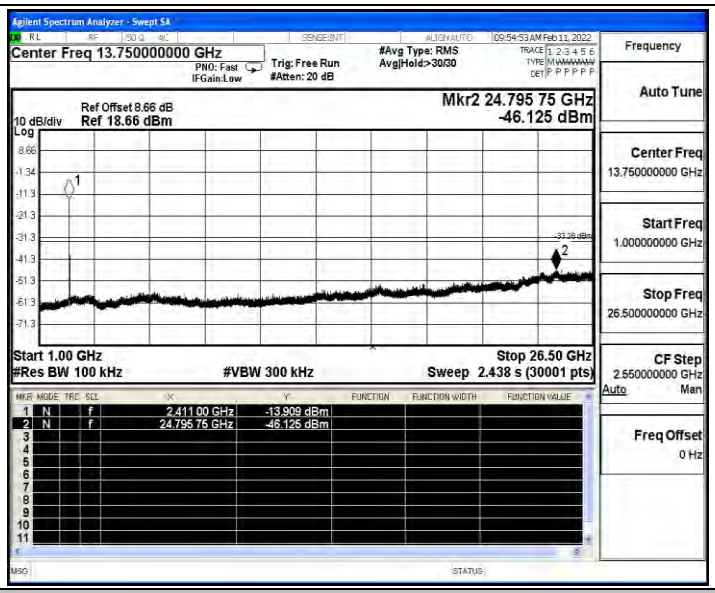
11N20SISO_Ant0_2412_0~Reference



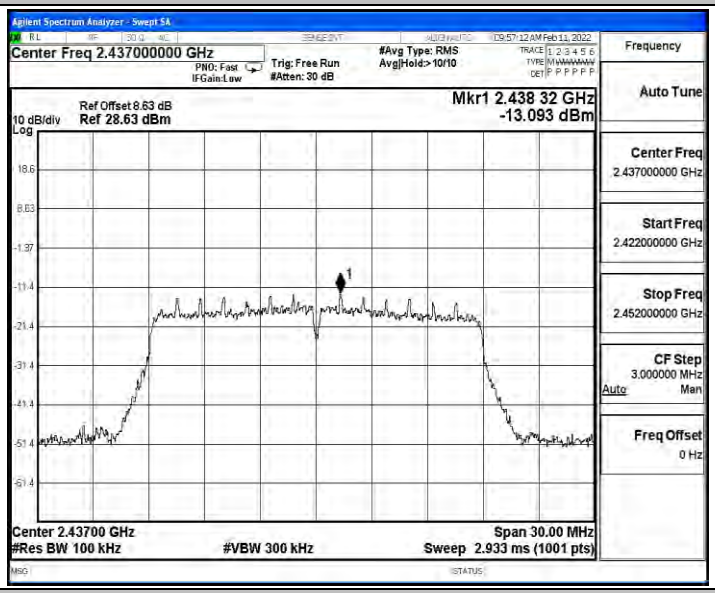
11N20SISO_Ant0_2412_30~1000



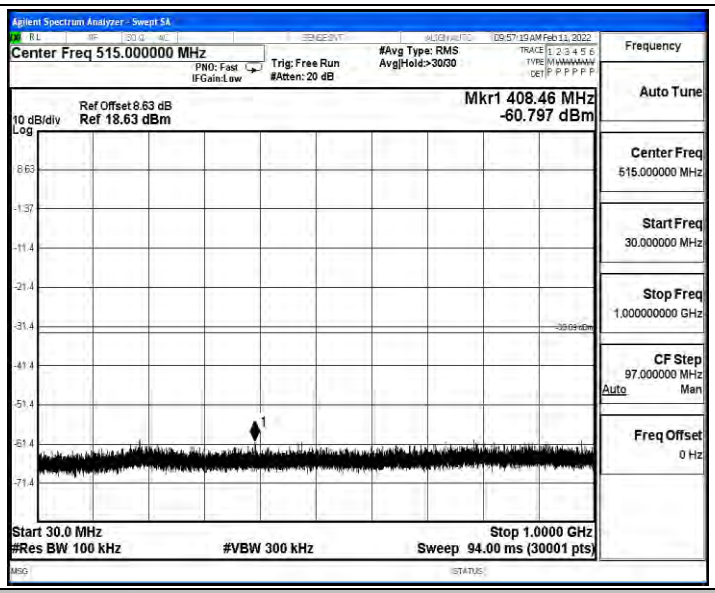
11N20SISO_Ant0_2412_1000~26500



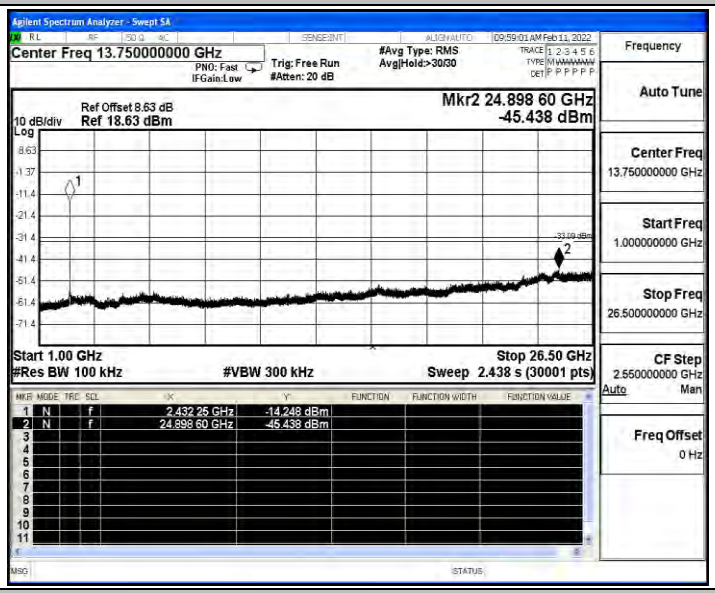
11N20SISO_Ant0_2437_0~Reference



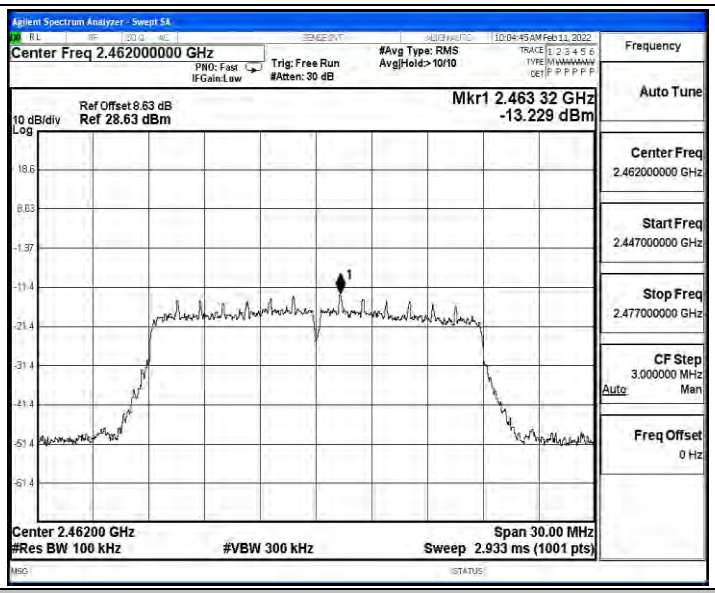
11N20SISO_Ant0_2437_30~1000



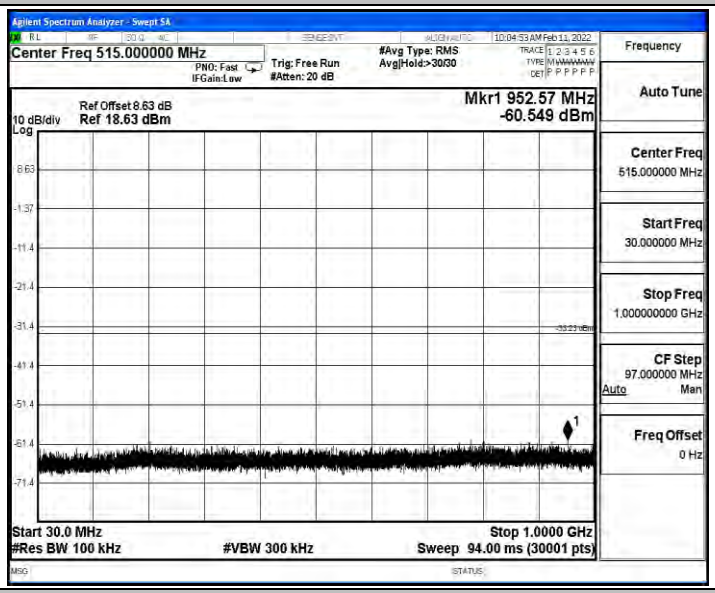
11N20SISO_Ant0_2437_1000~26500



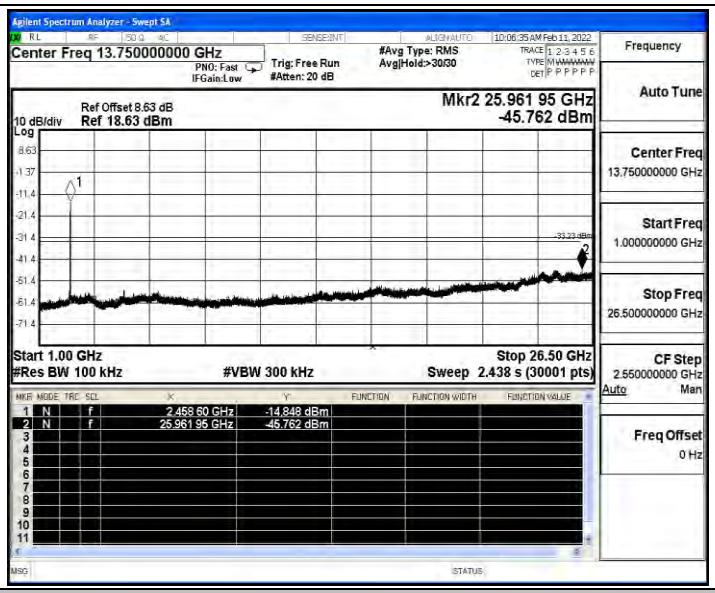
11N20SISO_Ant0_2462_0~Reference



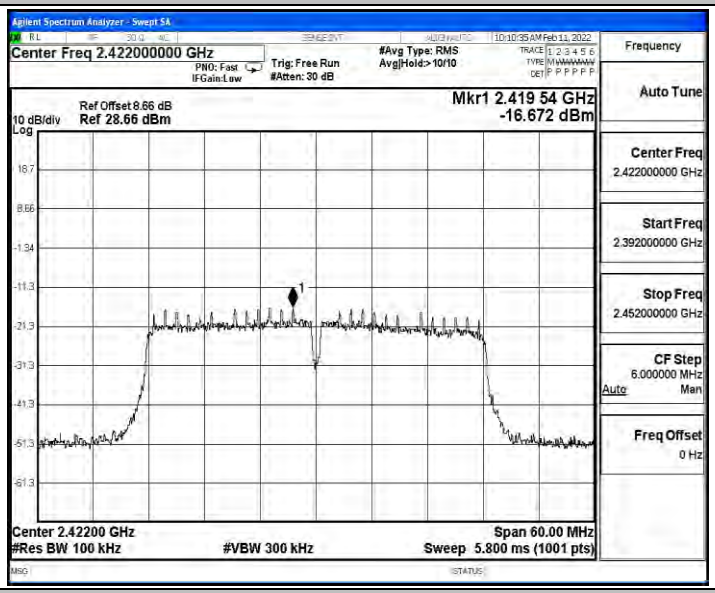
11N20SISO_Ant0_2462_30~1000



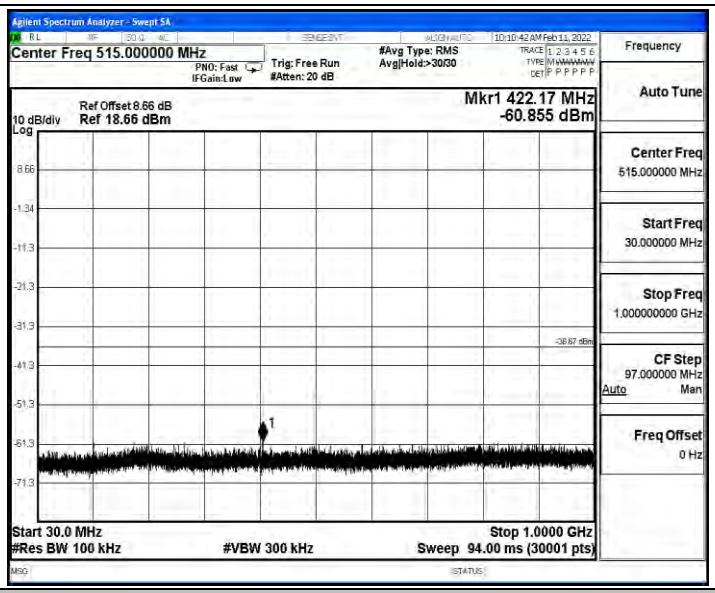
11N20SISO_Ant0_2462_1000~26500



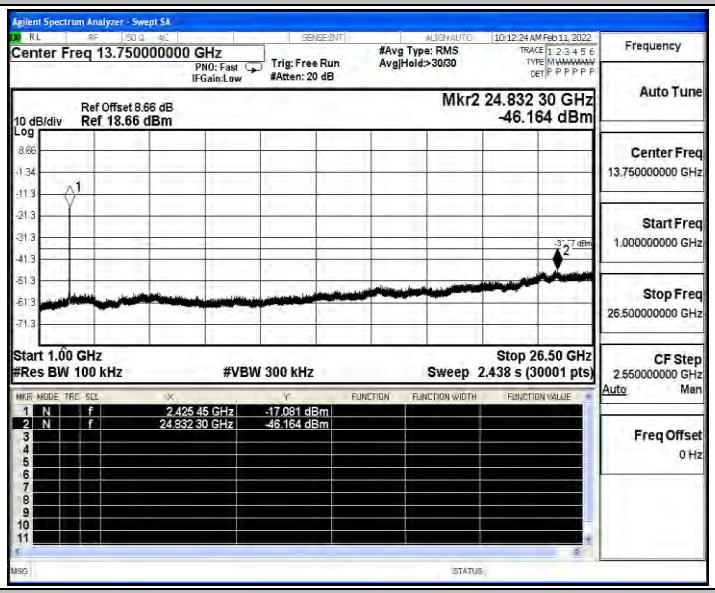
11N40SISO_Ant0_2422_0~Reference



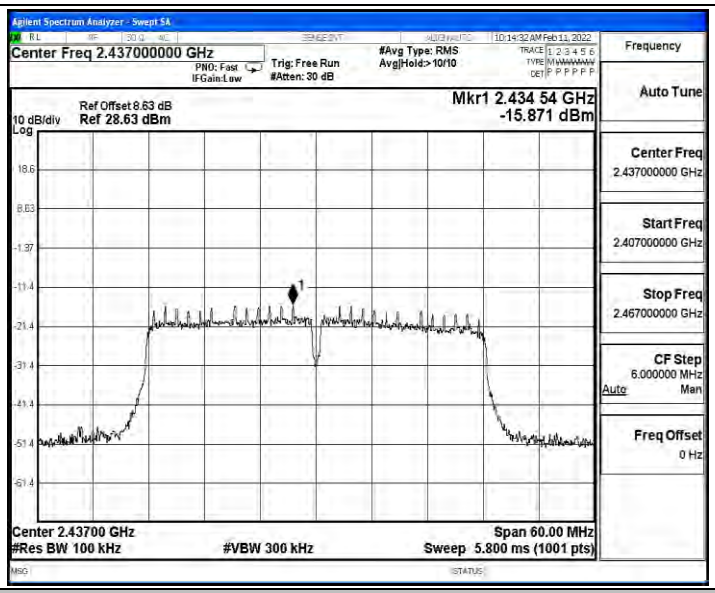
11N40SISO_Ant0_2422_30~1000



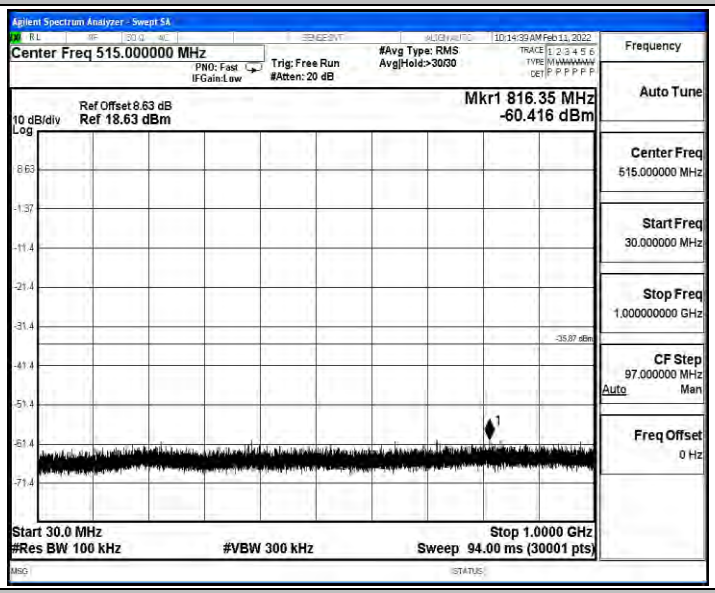
11N40SISO_Ant0_2422_1000~26500



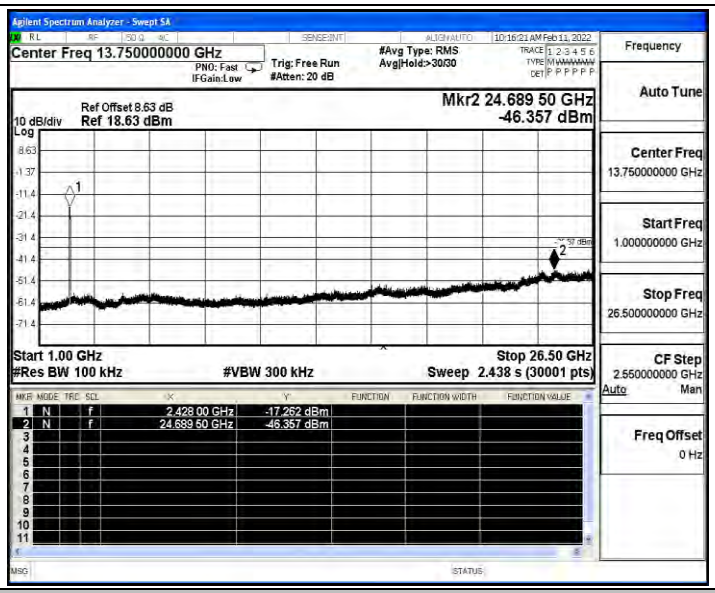
11N40SISO_Ant0_2437_0~Reference



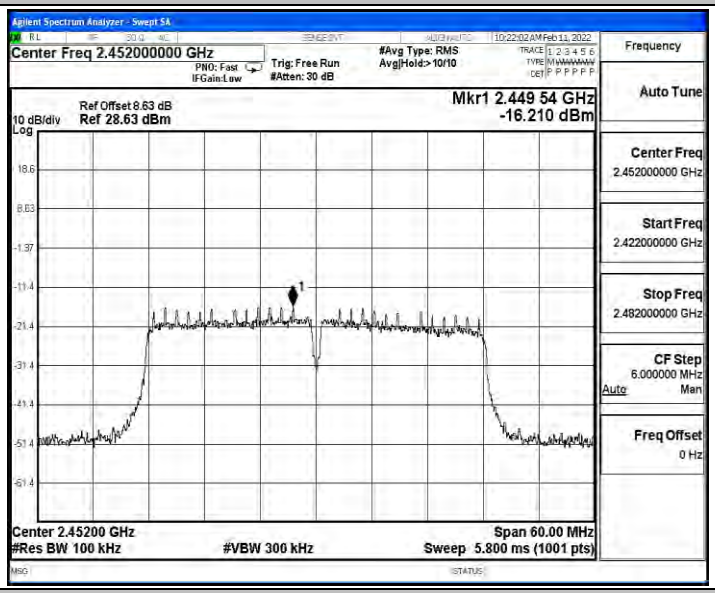
11N40SISO_Ant0_2437_30~1000



11N40SISO_Ant0_2437_1000~26500



11N40SISO_Ant0_2452_0~Reference



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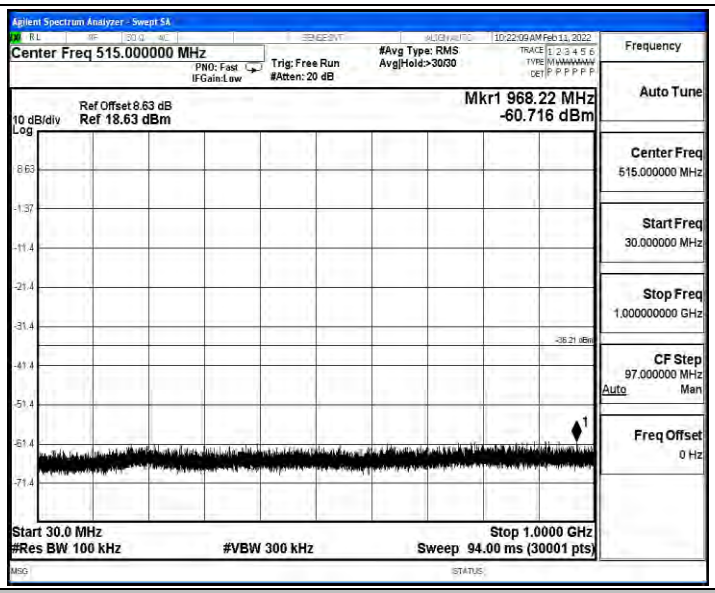

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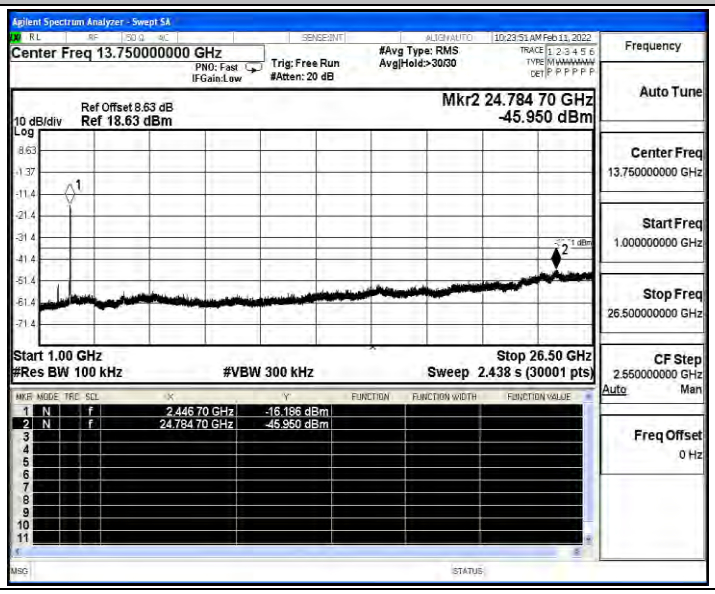
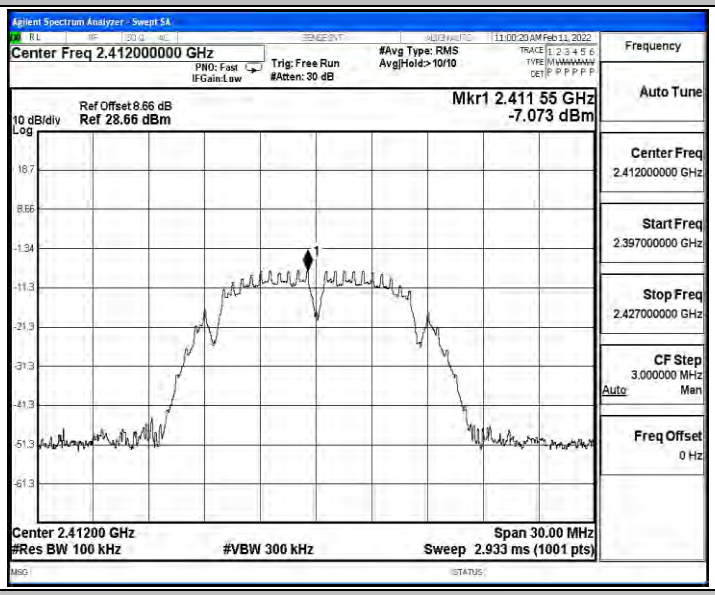


11B_Ant1_2412_0~Reference



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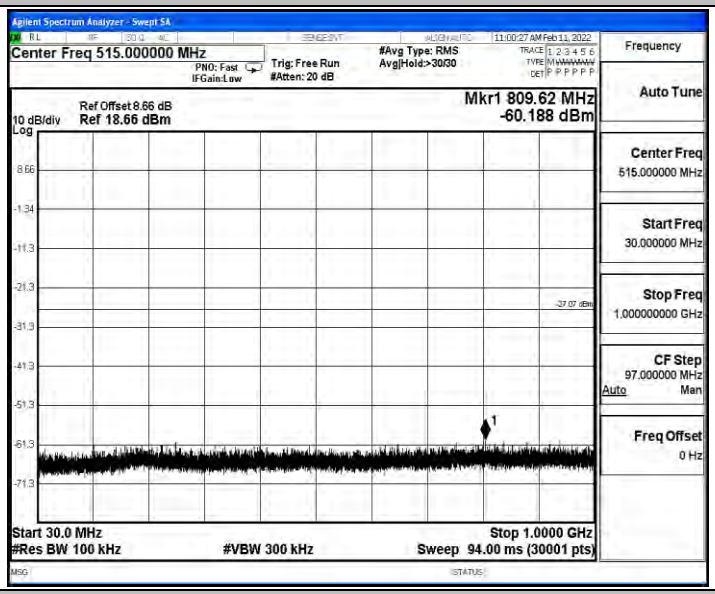

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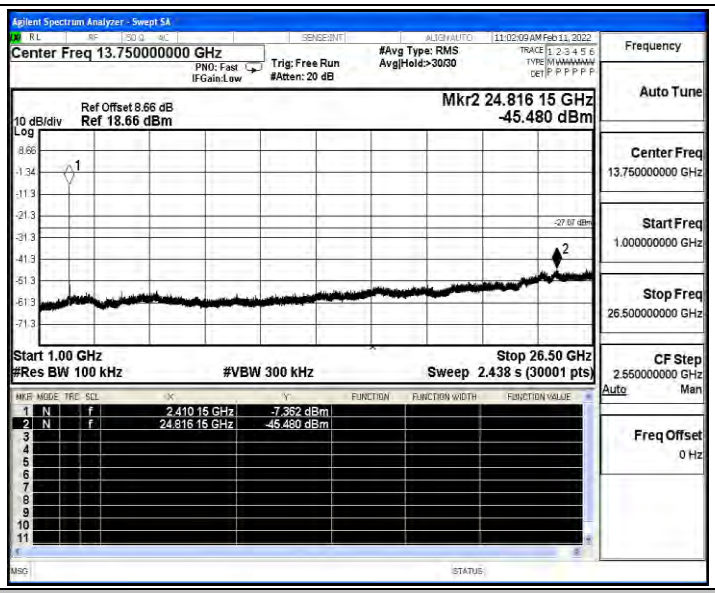

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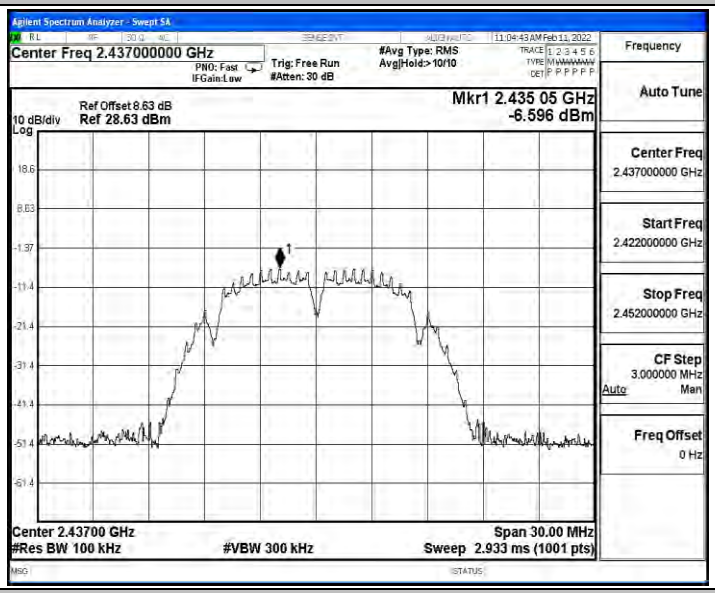

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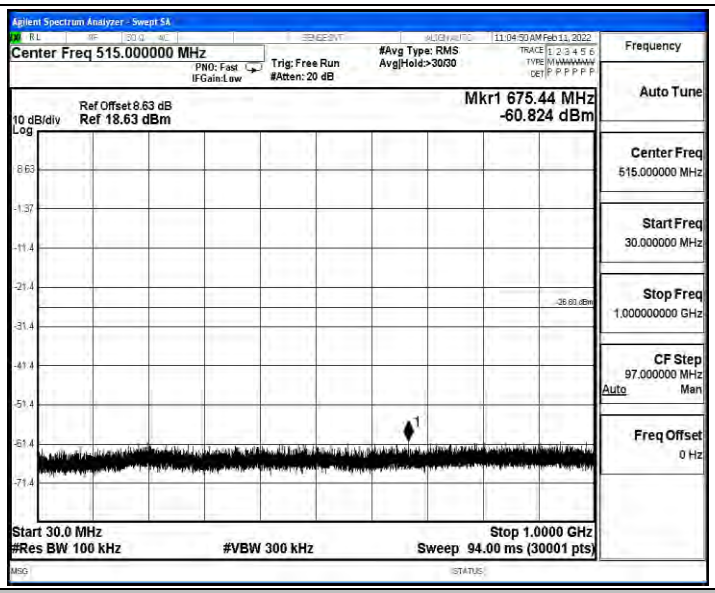

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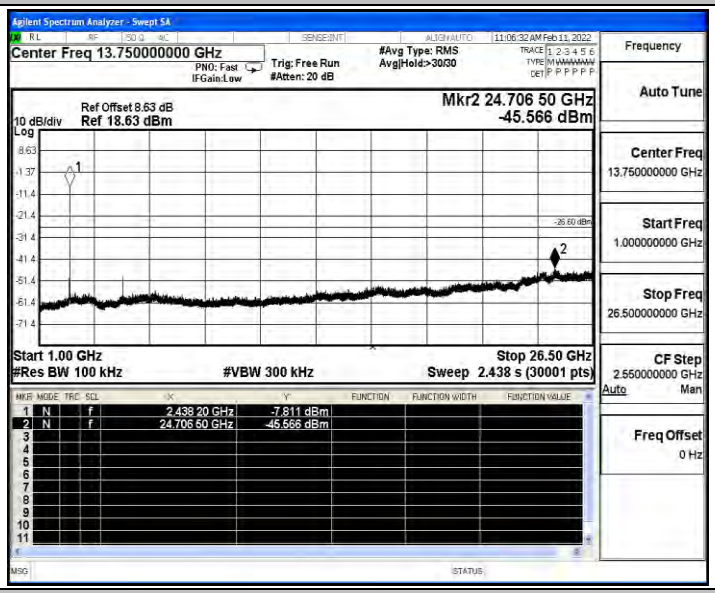

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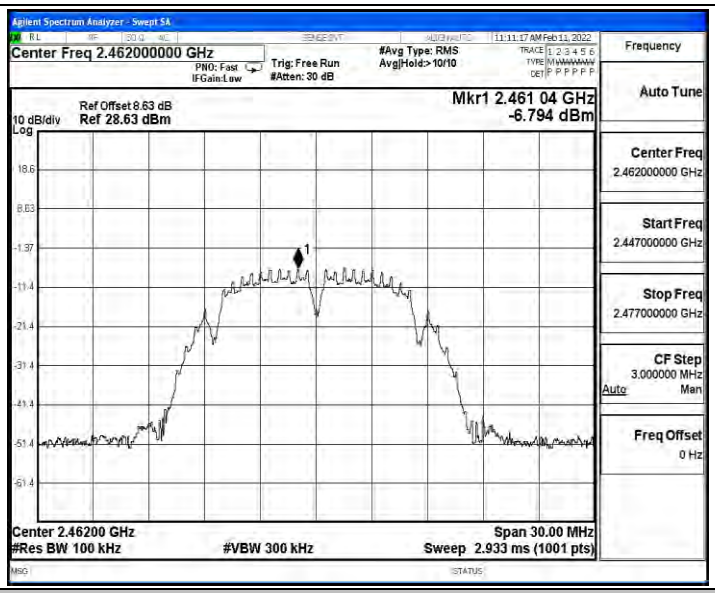

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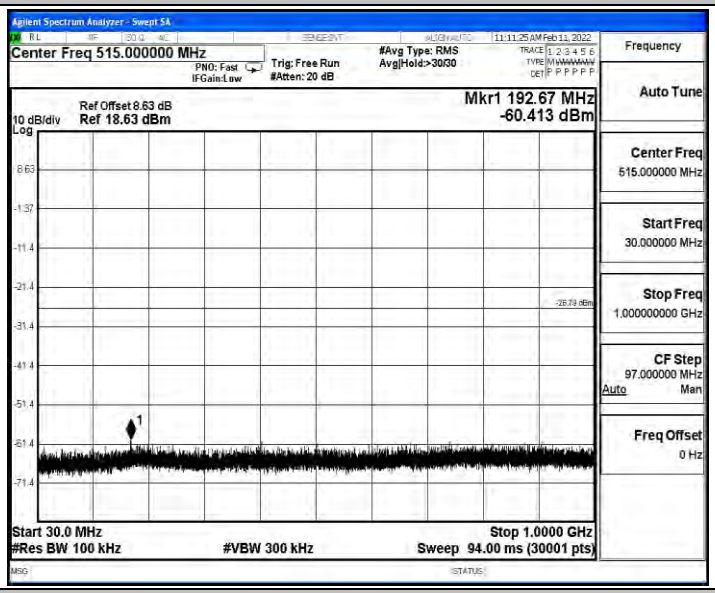

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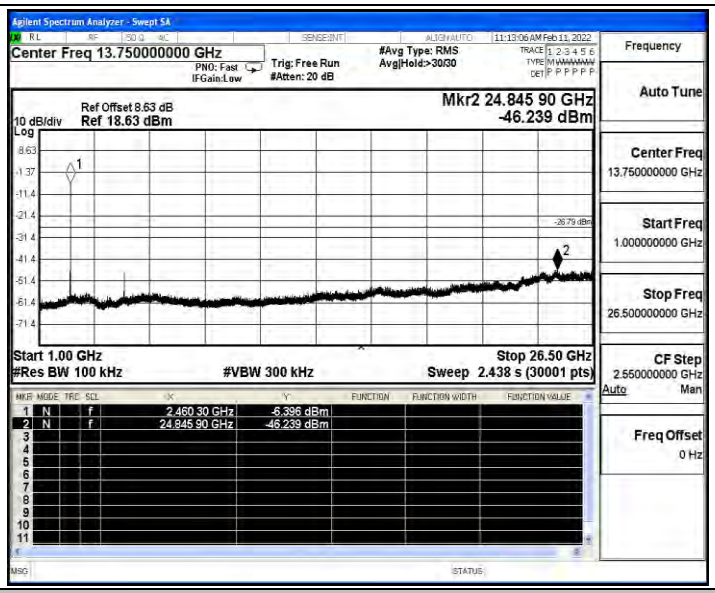

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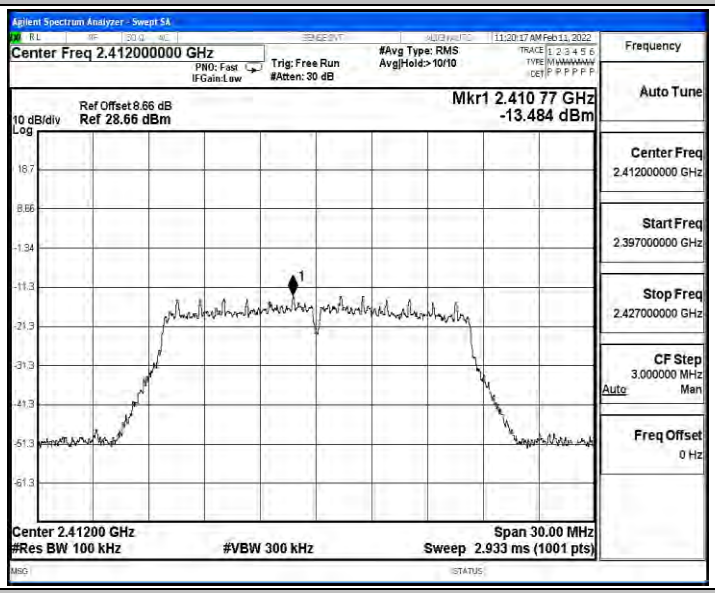

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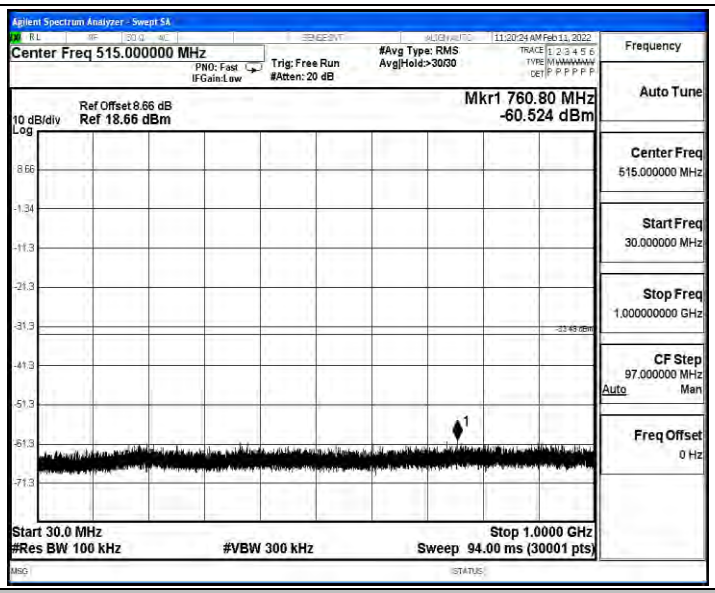

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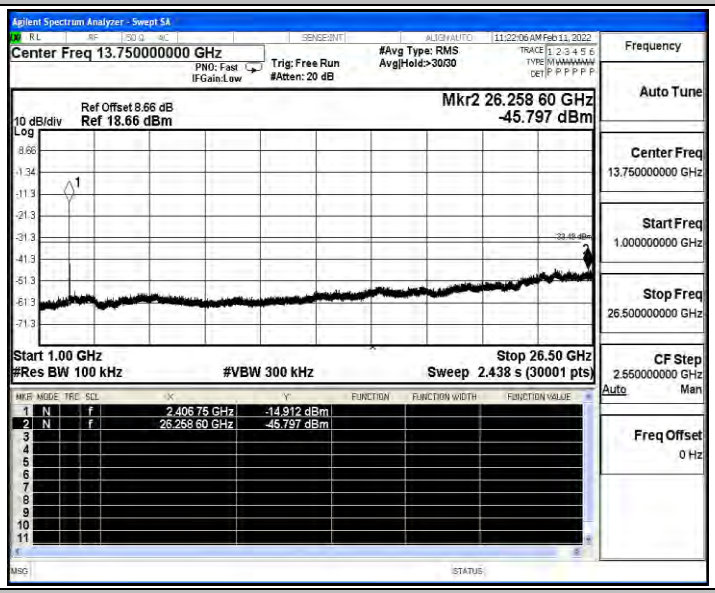

11G_Ant1_2437_0~Reference