

Case No. : <u>CTA24081600303</u>	
Ambient Condition: <u>22</u> °C, <u>53</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2024.8.19</u>	Test Engineer: <u>Lushan Kong</u>

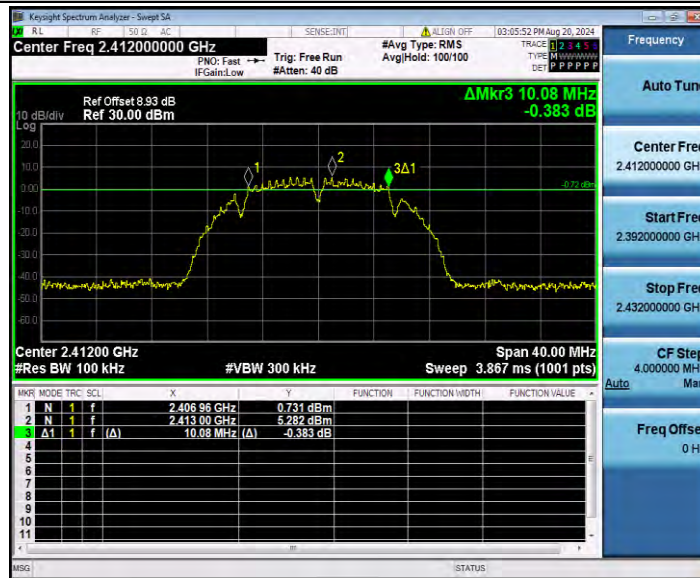
Appendix C.1: DTS Bandwidth

Test Result

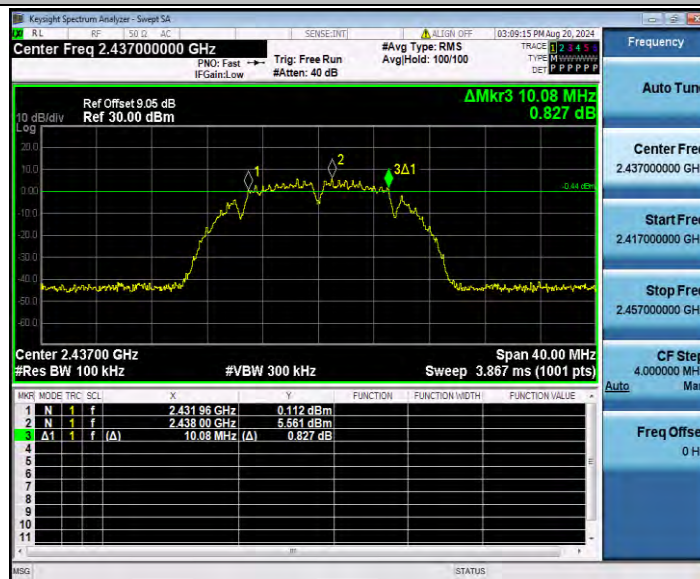
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.080	2406.960	2417.040	0.5	PASS
		2437	10.080	2431.960	2442.040	0.5	PASS
		2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.360	2428.840	2445.200	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.200	2420.760	0.5	PASS
		2437	17.520	2428.240	2445.760	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS
11N40SISO	Ant1	2422	35.680	2404.480	2440.160	0.5	PASS
		2437	35.680	2419.480	2455.160	0.5	PASS
		2452	36.320	2433.840	2470.160	0.5	PASS

Test Graphs

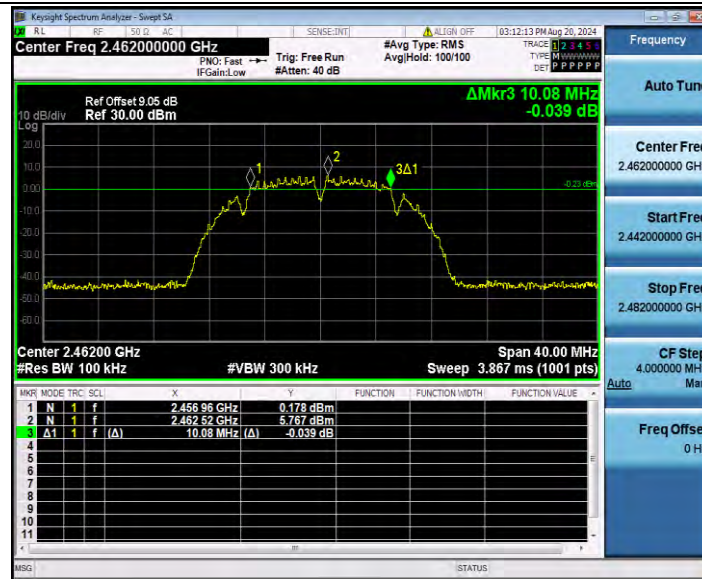
11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



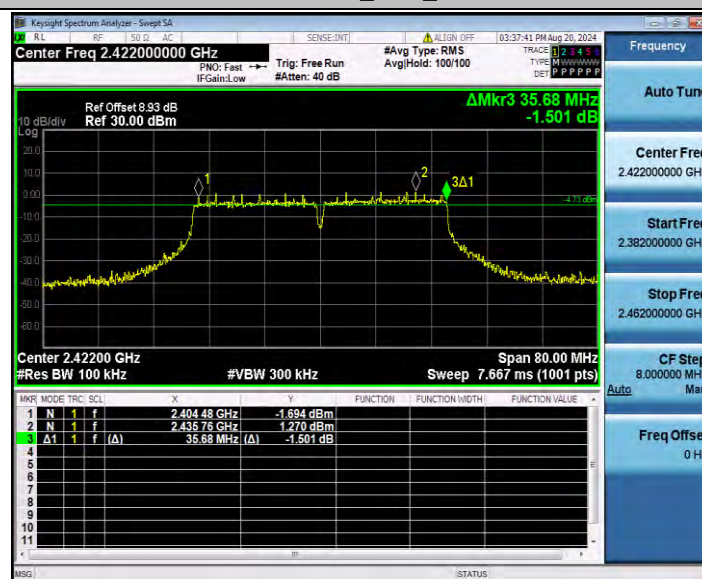
11N20SISO_Ant1_2437



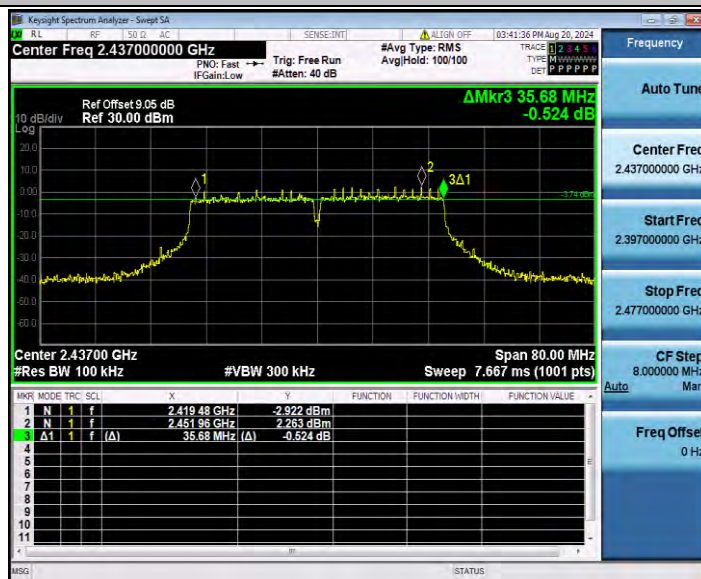
11N20SISO_Ant1_2462



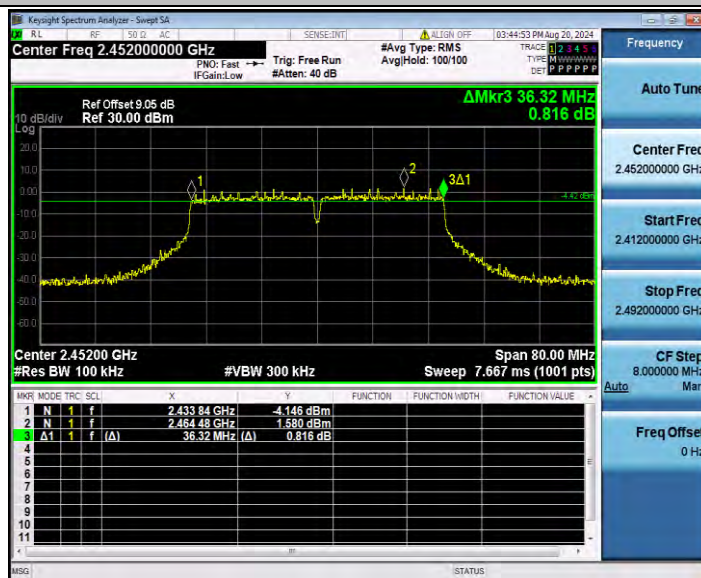
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



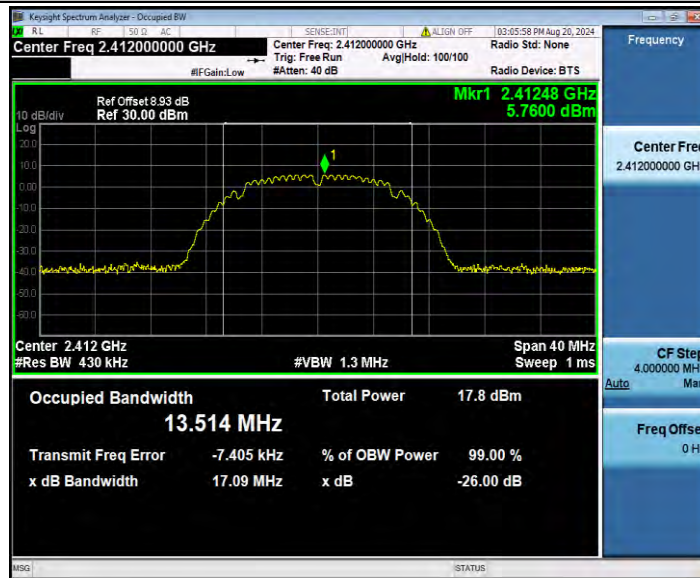
Appendix C.2: Occupied Channel Bandwidth

Test Result

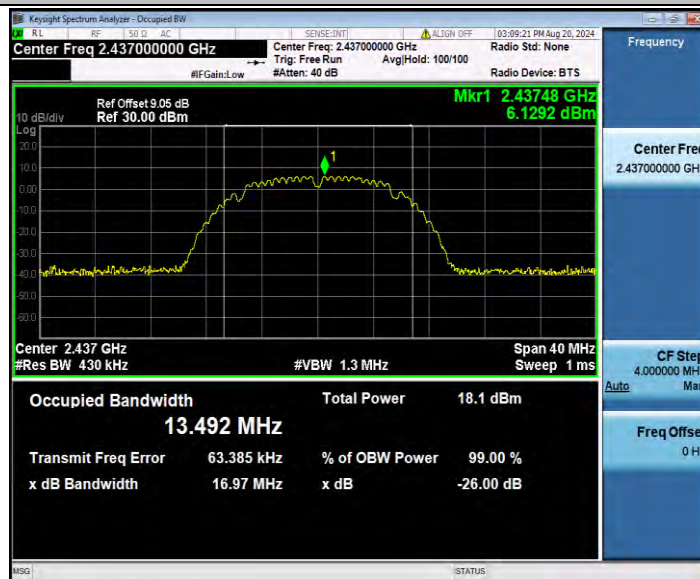
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.514	2405.2356	2418.7496	---	---
		2437	13.492	2430.3174	2443.8094	---	---
		2462	13.436	2455.3018	2468.7378	---	---
11G	Ant1	2412	17.345	2403.2872	2420.6322	---	---
		2437	17.204	2428.4743	2445.6783	---	---
		2462	17.163	2453.4641	2470.6271	---	---
11N20SISO	Ant1	2412	18.218	2402.8944	2421.1124	---	---
		2437	18.293	2427.9058	2446.1988	---	---
		2462	18.272	2452.8771	2471.1491	---	---
11N40SISO	Ant1	2422	36.763	2403.7725	2440.5355	---	---
		2437	36.670	2418.8313	2455.5013	---	---
		2452	36.618	2433.8163	2470.4343	---	---

Test Graphs

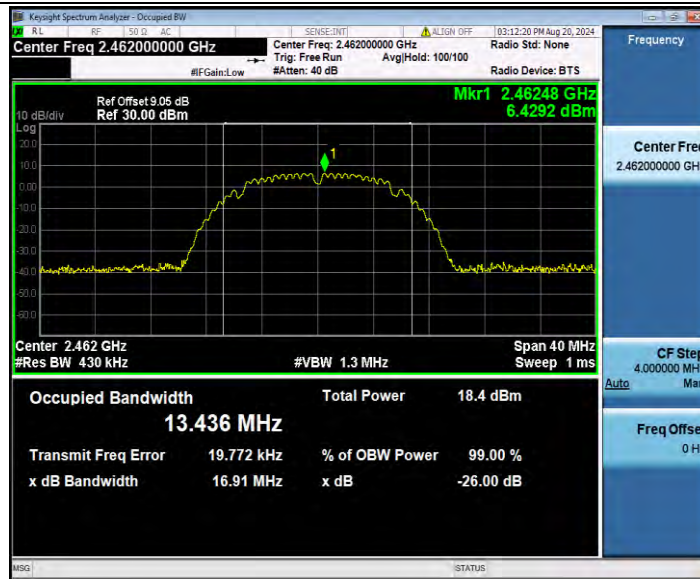
11B_Ant1_2412



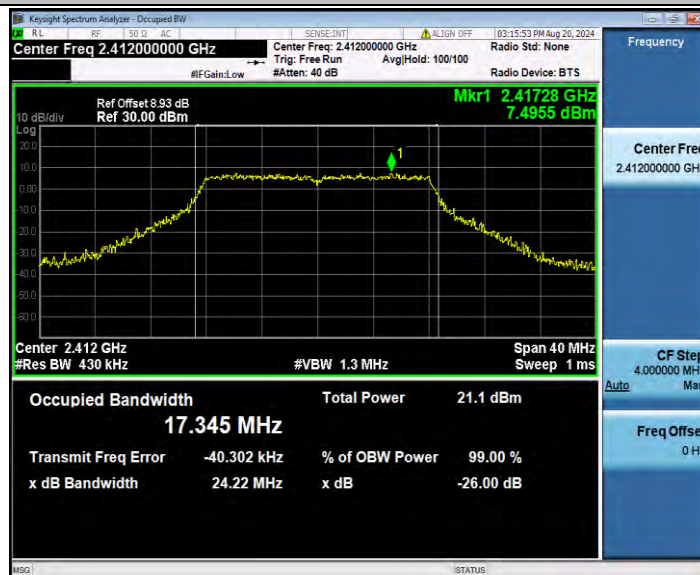
11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



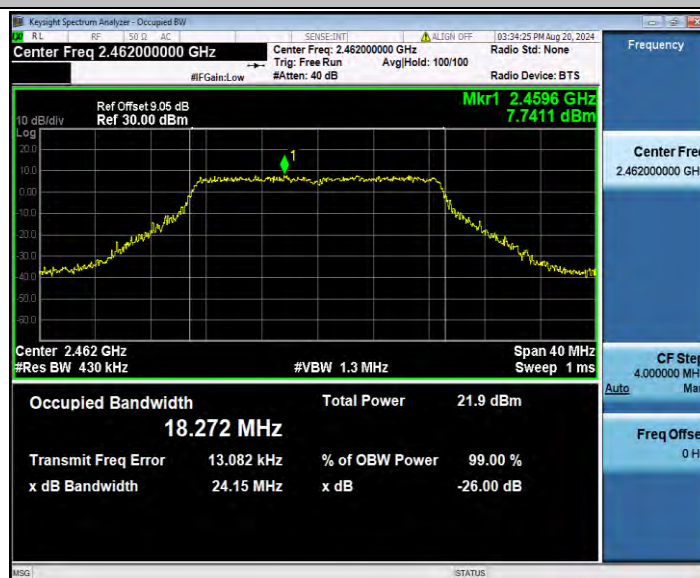
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



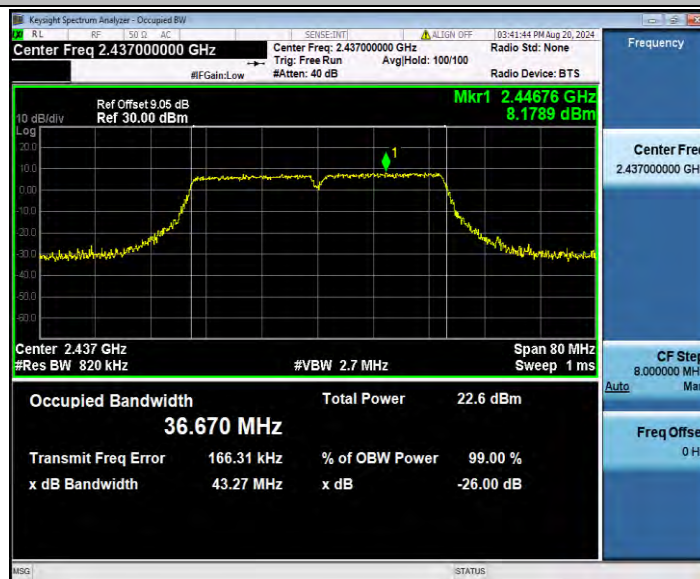
11N20SISO_Ant1_2462



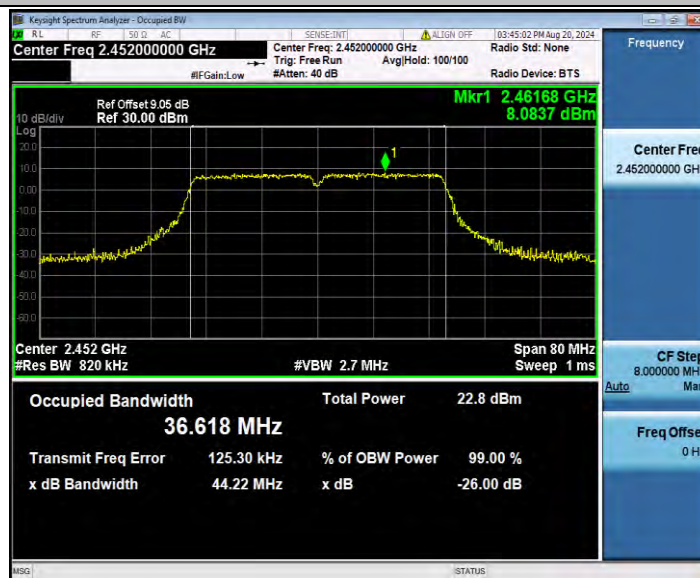
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C.3: Maximum conducted output power

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	17.79	≤30.00	PASS
		2437	18.15	≤30.00	PASS
		2462	18.47	≤30.00	PASS
11G	Ant1	2412	22.25	≤30.00	PASS
		2437	22.88	≤30.00	PASS
		2462	23.04	≤30.00	PASS
11N20SISO	Ant1	2412	22.25	≤30.00	PASS
		2437	22.85	≤30.00	PASS
		2462	23.05	≤30.00	PASS
11N40SISO	Ant1	2422	20.31	≤30.00	PASS
		2437	22.92	≤30.00	PASS
		2452	22.94	≤30.00	PASS

Appendix C.4: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.04	≤8.00	PASS
		2437	-7.78	≤8.00	PASS
		2462	-8.57	≤8.00	PASS
11G	Ant1	2412	-9.17	≤8.00	PASS
		2437	-9.30	≤8.00	PASS
		2462	-9.10	≤8.00	PASS
11N20SISO	Ant1	2412	-10.96	≤8.00	PASS
		2437	-9.56	≤8.00	PASS
		2462	-9.76	≤8.00	PASS
11N40SISO	Ant1	2422	-15.02	≤8.00	PASS
		2437	-12.32	≤8.00	PASS
		2452	-12.31	≤8.00	PASS

Note:

1. The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

11B_Ant1_2412



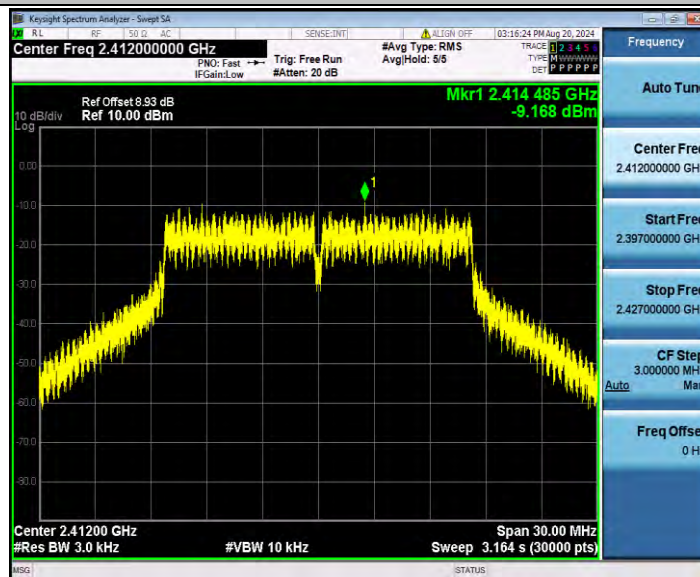
11B_Ant1_2437



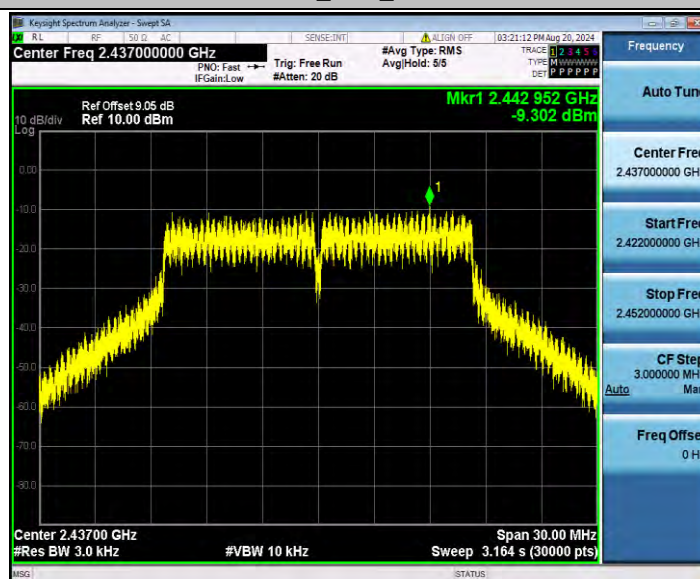
11B_Ant1_2462



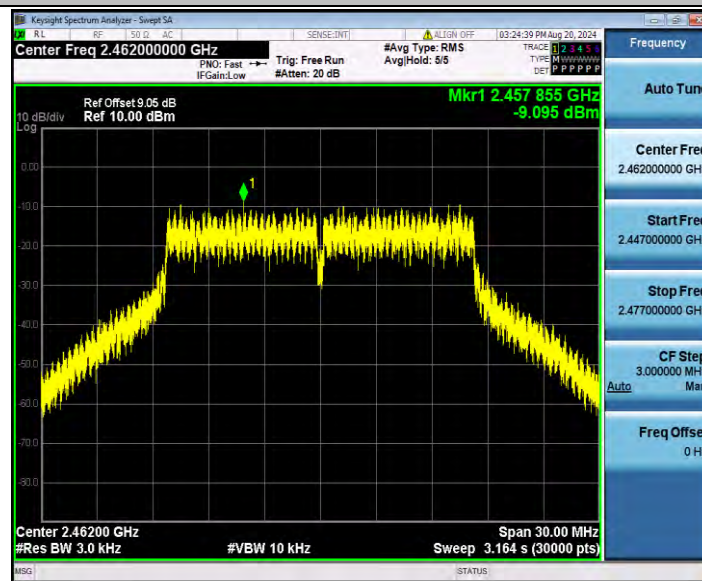
11G_Ant1_2412



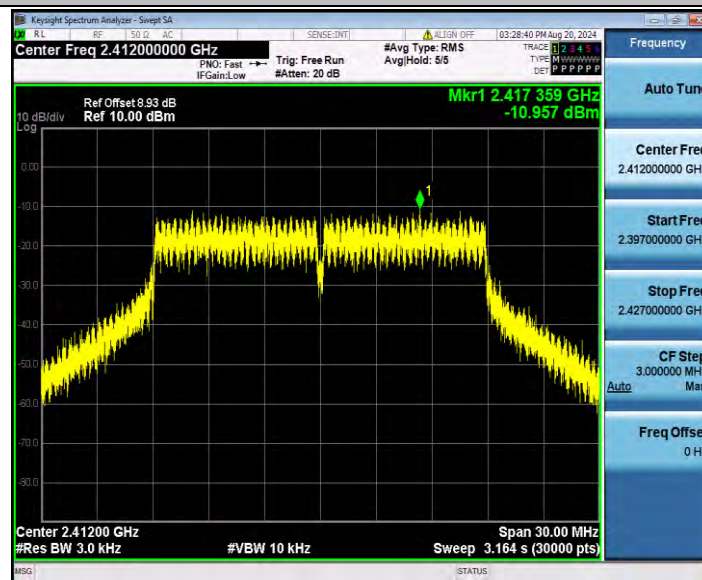
11G_Ant1_2437



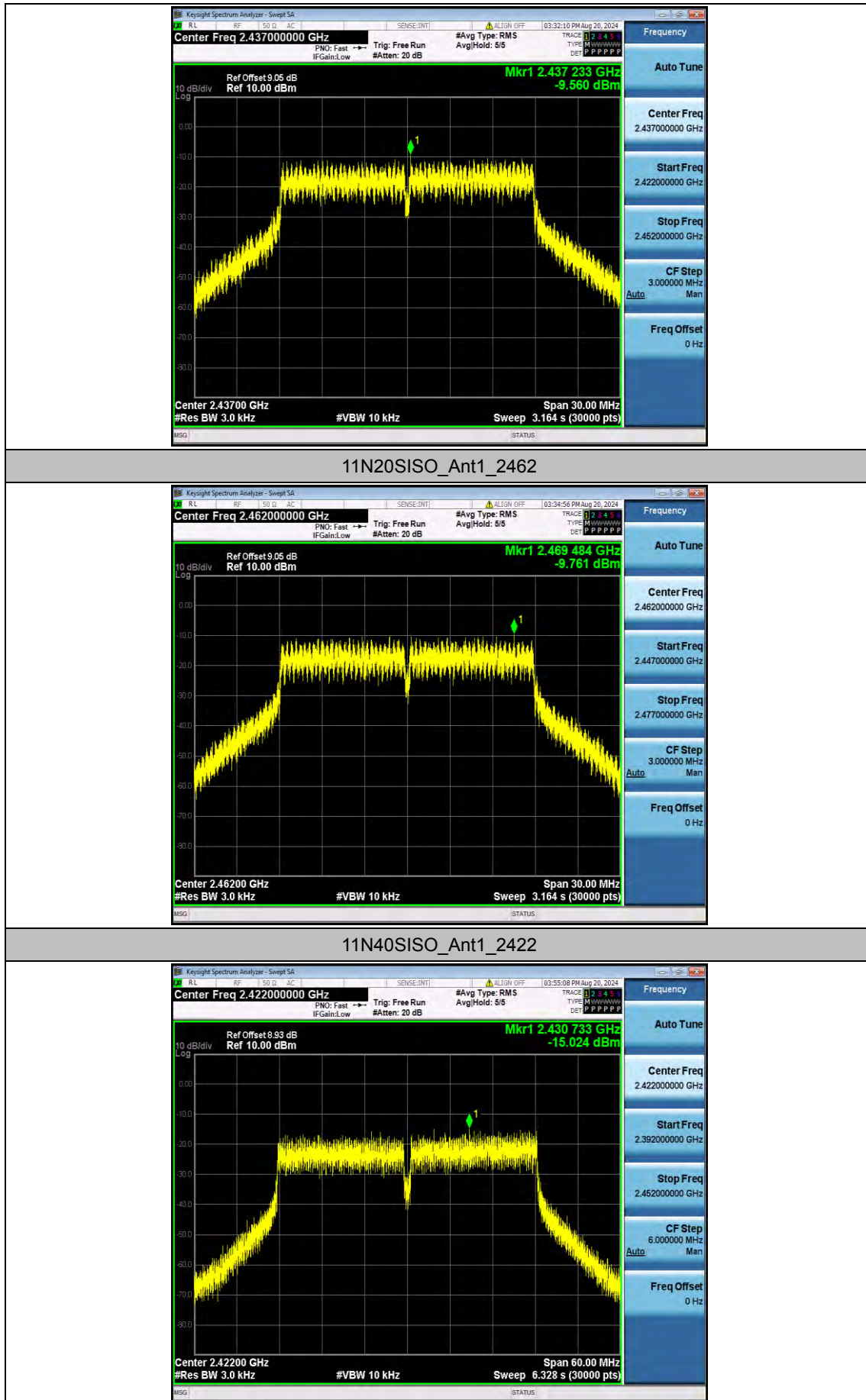
11G_Ant1_2462



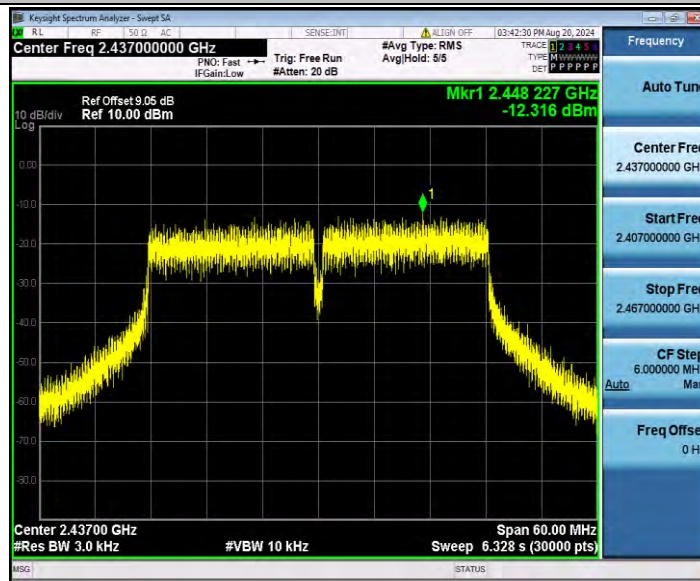
11N20SISO_Ant1_2412



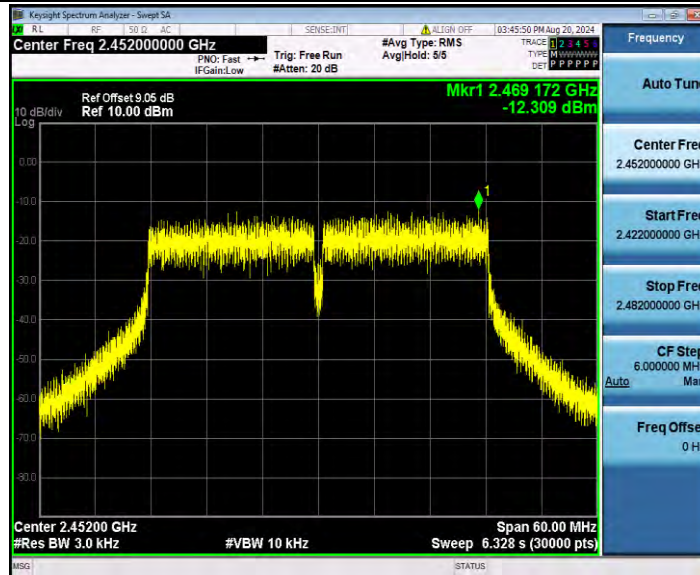
11N20SISO_Ant1_2437



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



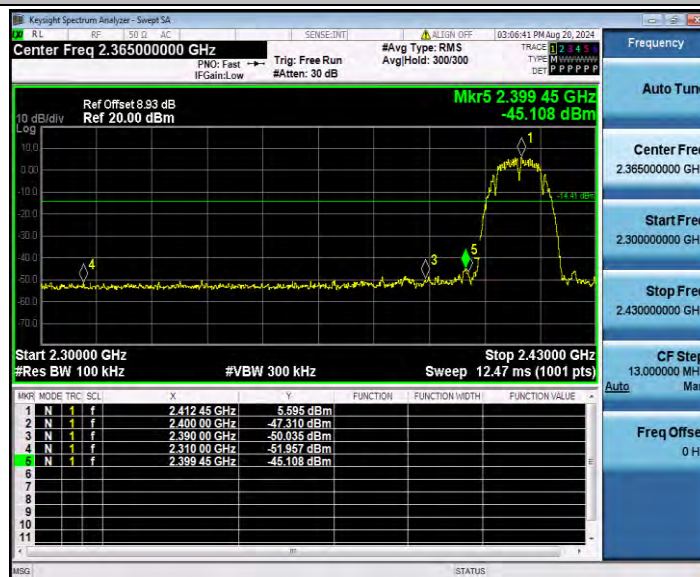
Appendix C.5: Band edge measurements

Test Result

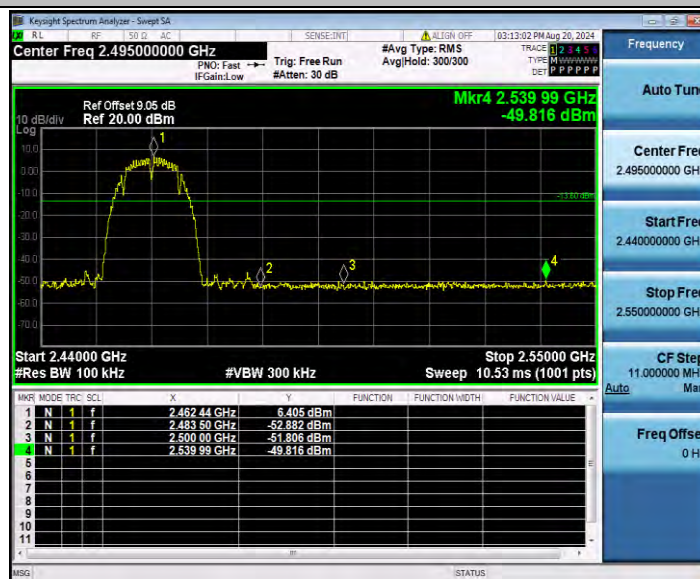
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.60	-45.11	≤ -14.41	PASS
		High	2462	6.41	-49.82	≤ -13.6	PASS
11G	Ant1	Low	2412	4.15	-24.09	≤ -15.85	PASS
		High	2462	5.51	-47.22	≤ -14.49	PASS
11N20SISO	Ant1	Low	2412	4.54	-23.49	≤ -15.46	PASS
		High	2462	5.49	-47.14	≤ -14.51	PASS
11N40SISO	Ant1	Low	2422	-0.90	-28.36	≤ -20.9	PASS
		High	2452	2.07	-38.98	≤ -17.93	PASS

Test Graphs

11B_Ant1_Low_2412



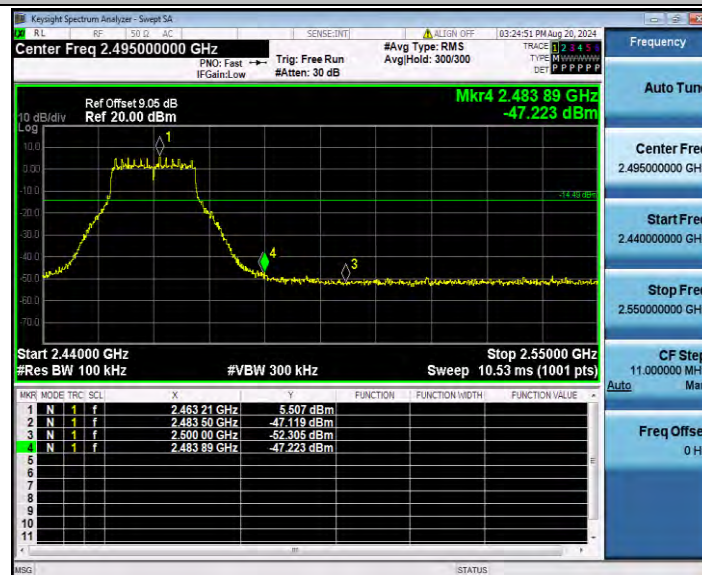
11B_Ant1_High_2462



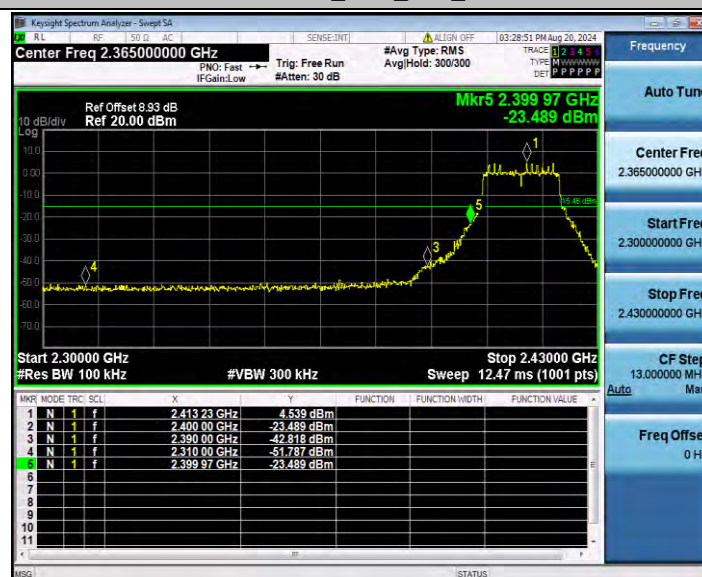
11G_Ant1_Low_2412



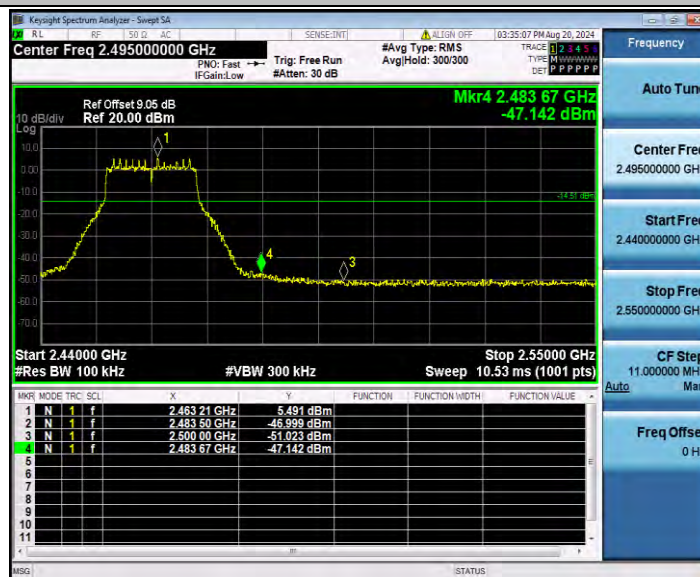
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

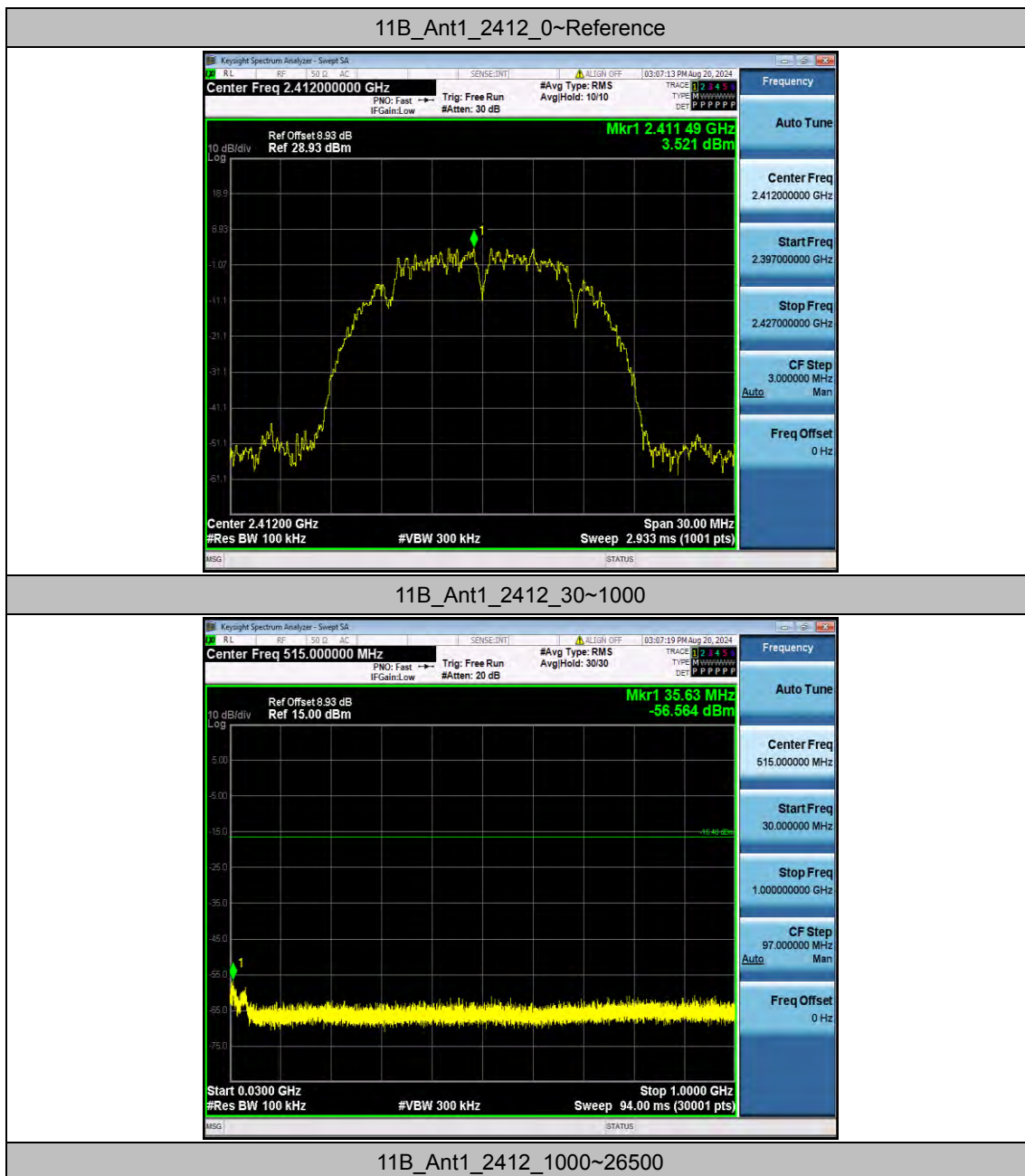


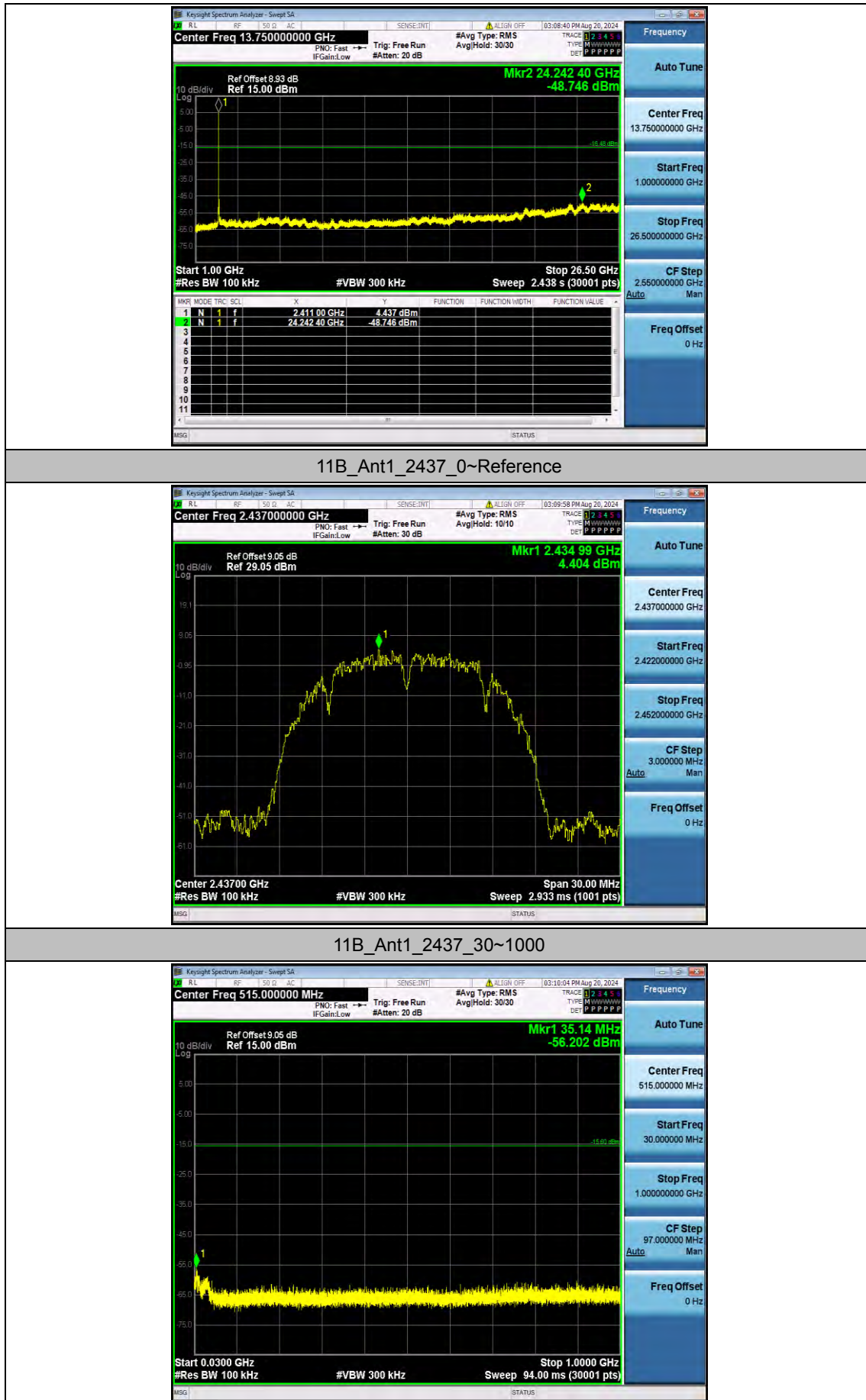
Appendix C.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.52	3.52	---	PASS
			30~1000	3.52	-56.56	≤ -16.48	PASS
			1000~26500	3.52	-48.75	≤ -16.48	PASS
		2437	Reference	4.40	4.40	---	PASS
			30~1000	4.40	-56.2	≤ -15.6	PASS
			1000~26500	4.40	-48.54	≤ -15.6	PASS
		2462	Reference	3.34	3.34	---	PASS
			30~1000	3.34	-60.76	≤ -16.66	PASS
			1000~26500	3.34	-47.77	≤ -16.66	PASS
11G	Ant1	2412	Reference	4.02	4.02	---	PASS
			30~1000	4.02	-55.31	≤ -15.98	PASS
			1000~26500	4.02	-48.31	≤ -15.98	PASS
		2437	Reference	5.39	5.39	---	PASS
			30~1000	5.39	-37.6	≤ -14.61	PASS
			1000~26500	5.39	-48.24	≤ -14.61	PASS
		2462	Reference	2.70	2.70	---	PASS
			30~1000	2.70	-49.06	≤ -17.3	PASS
			1000~26500	2.70	-48.16	≤ -17.3	PASS
11N20SISO	Ant1	2412	Reference	2.59	2.59	---	PASS
			30~1000	2.59	-53.07	≤ -17.41	PASS
			1000~26500	2.59	-47.95	≤ -17.41	PASS
		2437	Reference	4.46	4.46	---	PASS
			30~1000	4.46	-57.28	≤ -15.54	PASS
			1000~26500	4.46	-47.81	≤ -15.54	PASS
		2462	Reference	3.53	3.53	---	PASS
			30~1000	3.53	-55.52	≤ -16.47	PASS
			1000~26500	3.53	-47.76	≤ -16.47	PASS
11N40SISO	Ant1	2422	Reference	-3.18	-3.18	---	PASS
			30~1000	-3.18	-54.82	≤ -23.18	PASS
			1000~26500	-3.18	-48.31	≤ -23.18	PASS
		2437	Reference	1.29	1.29	---	PASS
			30~1000	1.29	-56.47	≤ -18.71	PASS
			1000~26500	1.29	-47.84	≤ -18.71	PASS
		2452	Reference	-0.07	-0.07	---	PASS
			30~1000	-0.07	-57.84	≤ -20.07	PASS
			1000~26500	-0.07	-48.25	≤ -20.07	PASS

Test Graphs

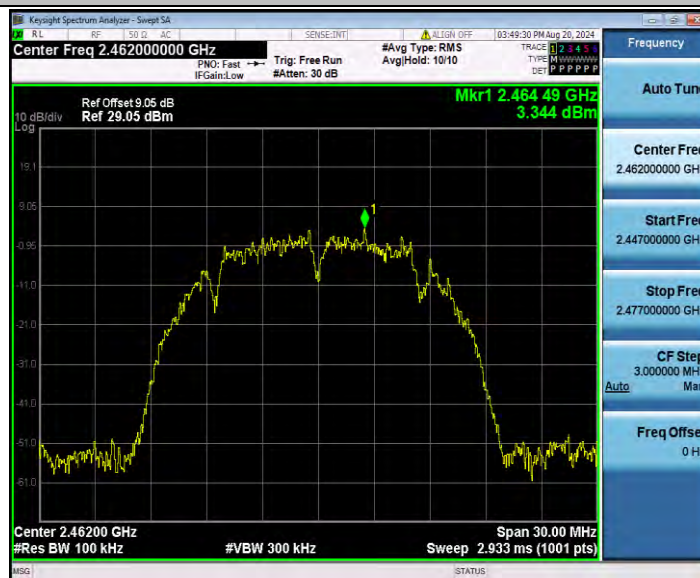




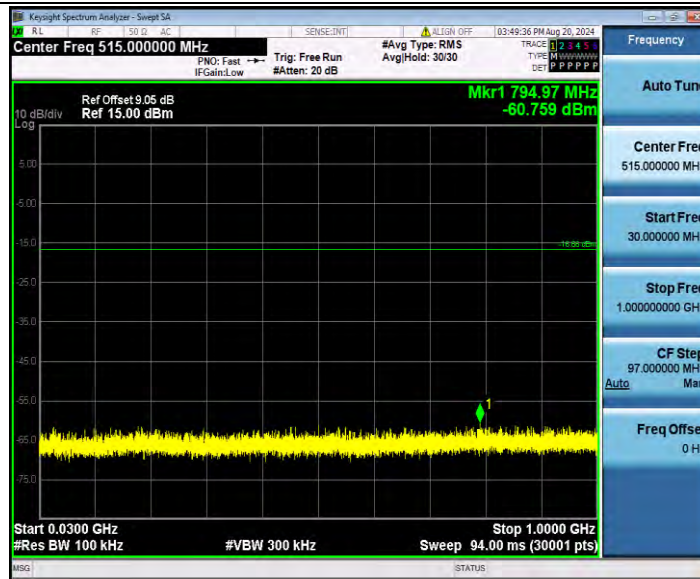
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



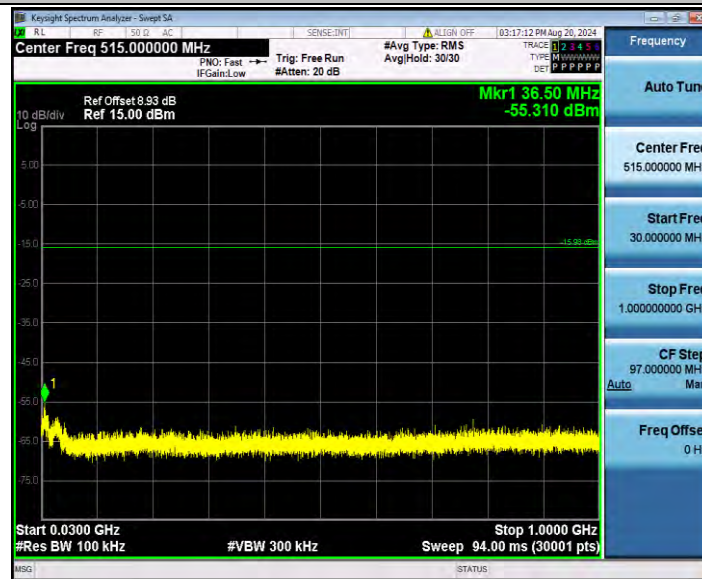
11B_Ant1_2462_1000~26500



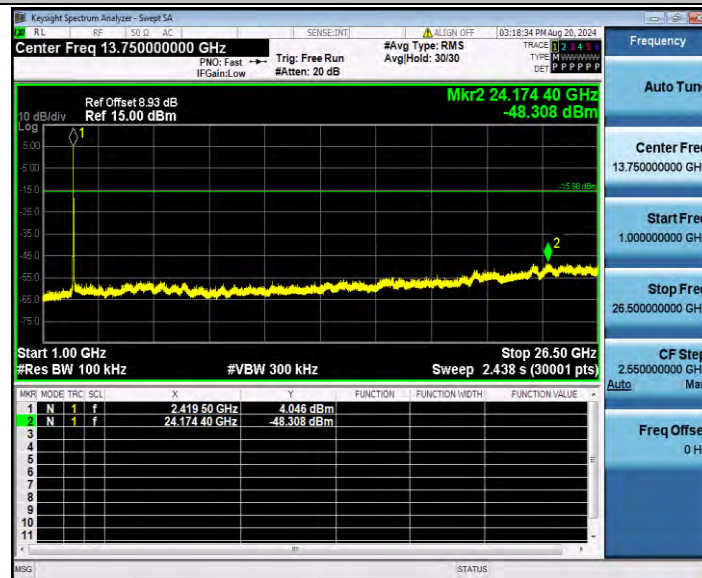
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



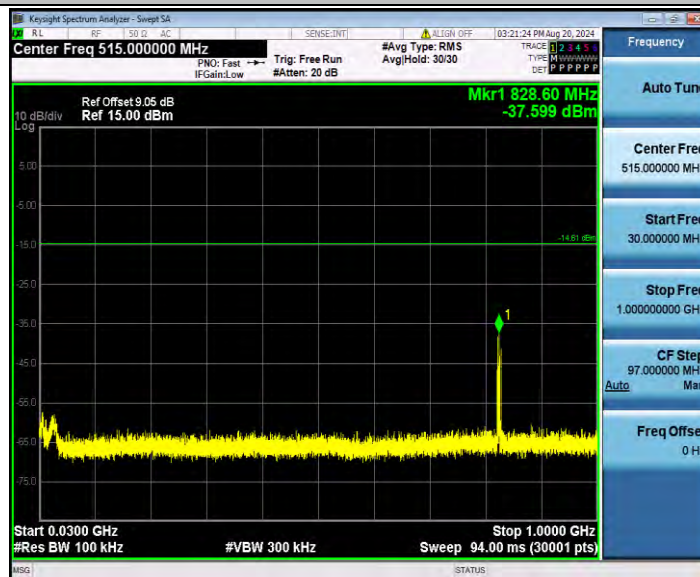
11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



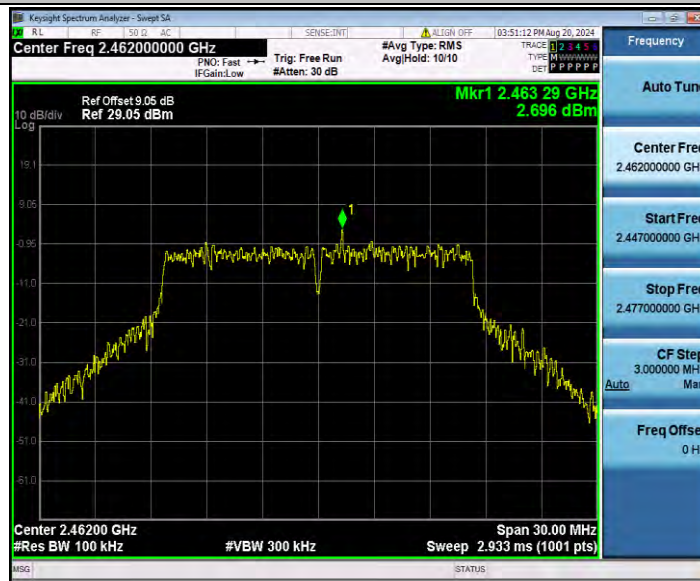
11G_Ant1_2437_30~1000



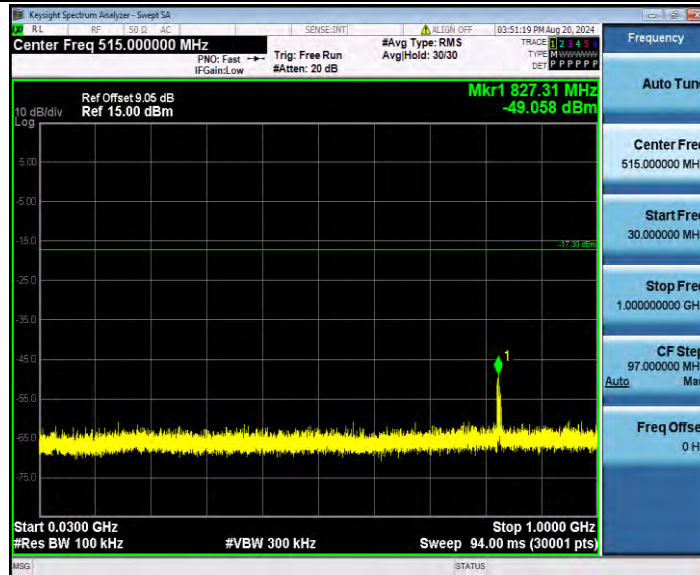
11G_Ant1_2437_1000~26500



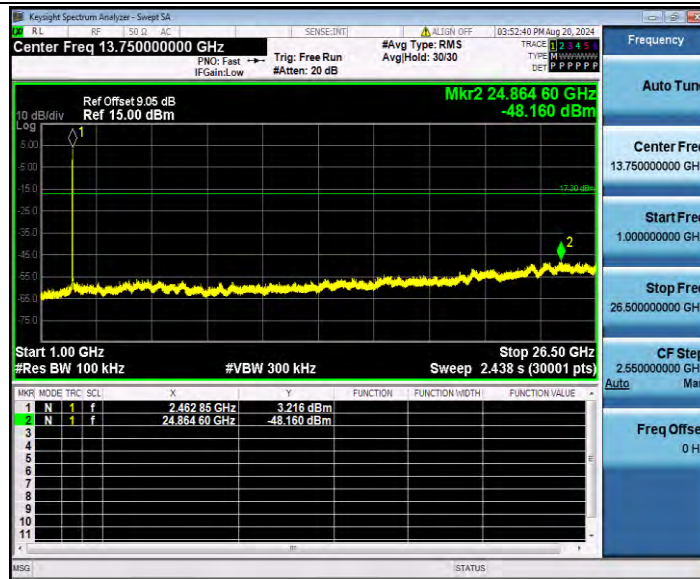
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



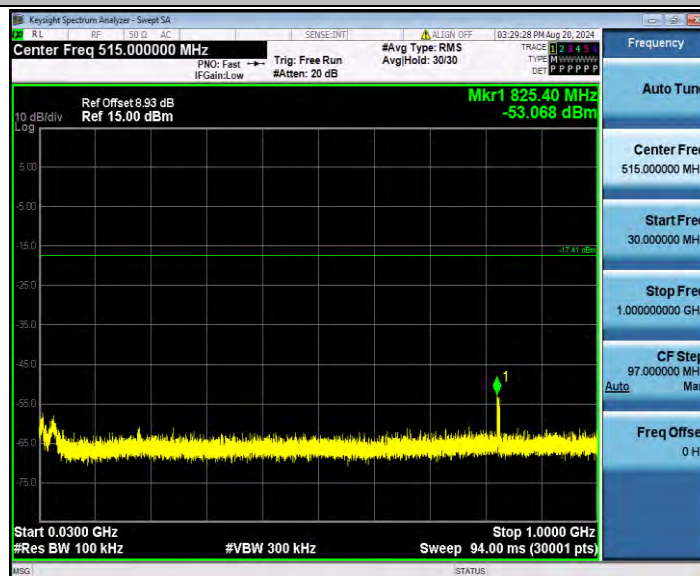
11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



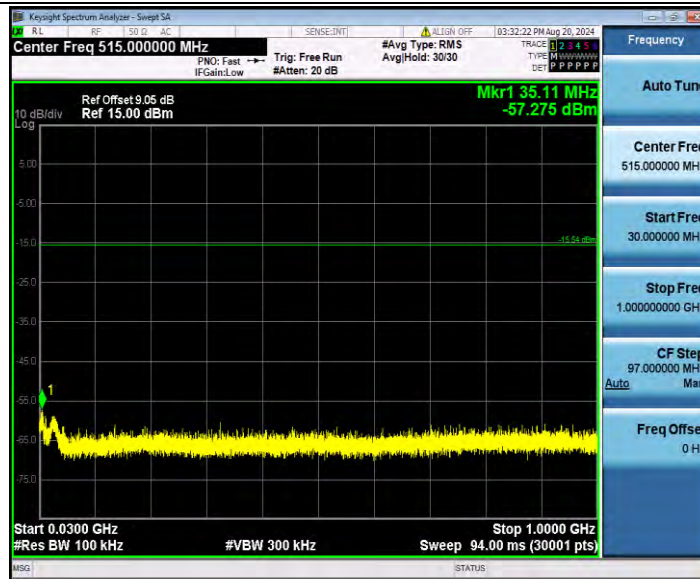
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



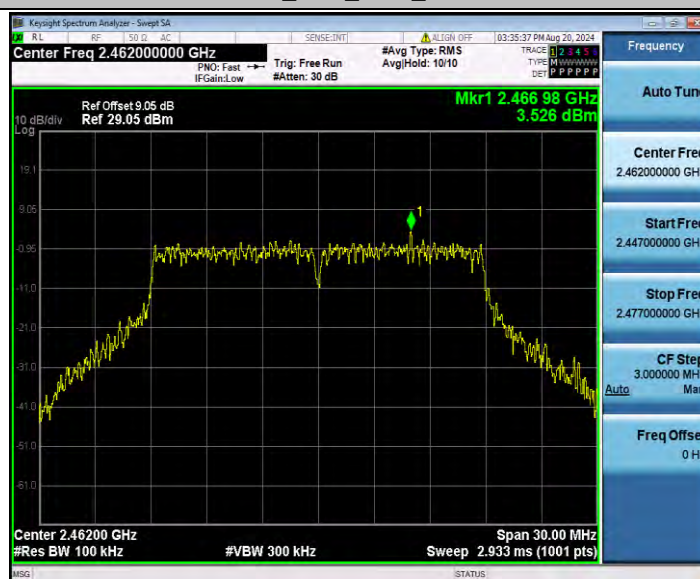
11N20SISO_Ant1_2437_30~1000



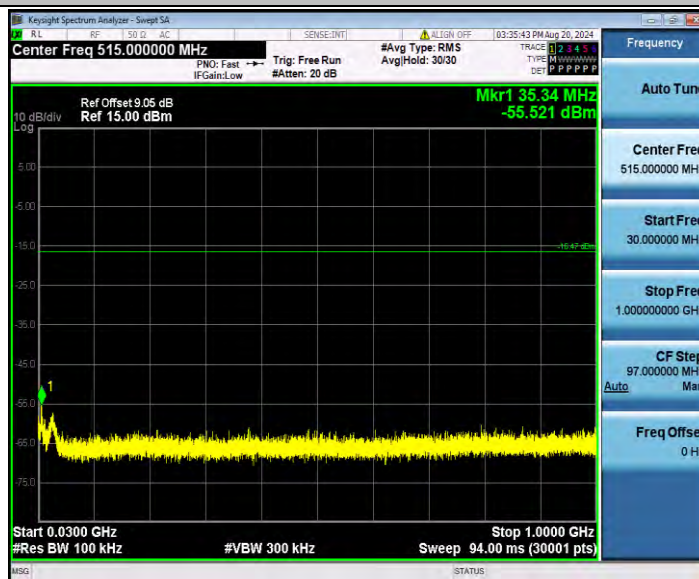
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



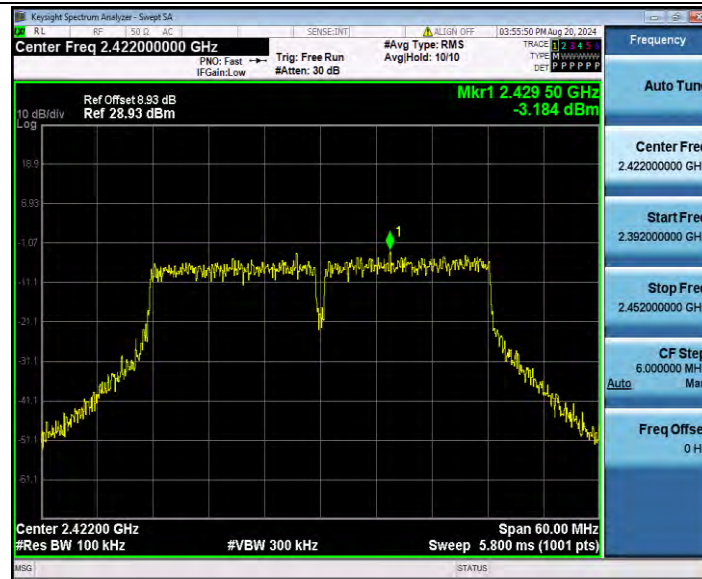
11N20SISO_Ant1_2462_30~1000



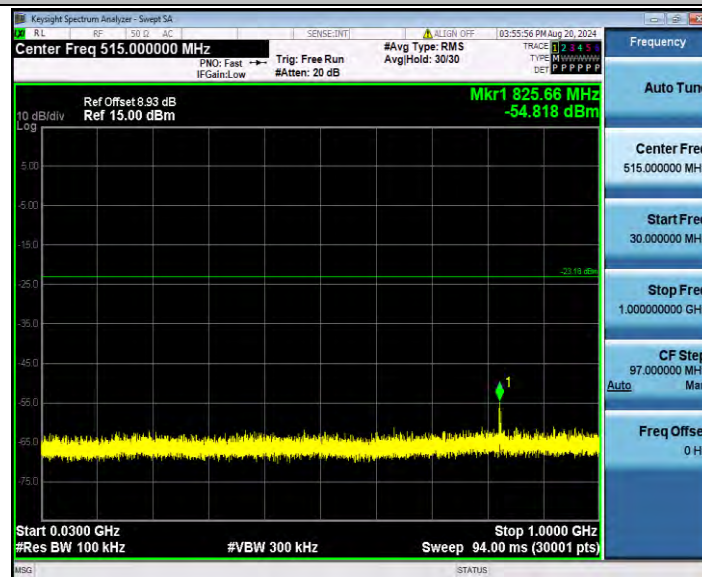
11N20SISO_Ant1_2462_1000~26500



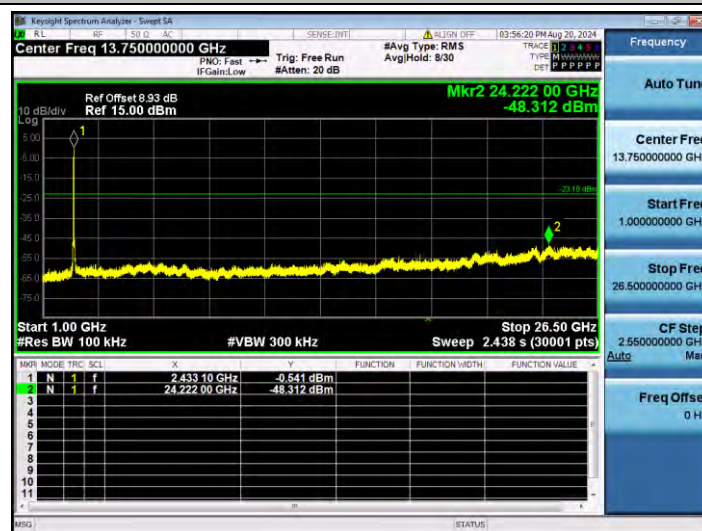
11N40SISO_Ant1_2422_0~Reference



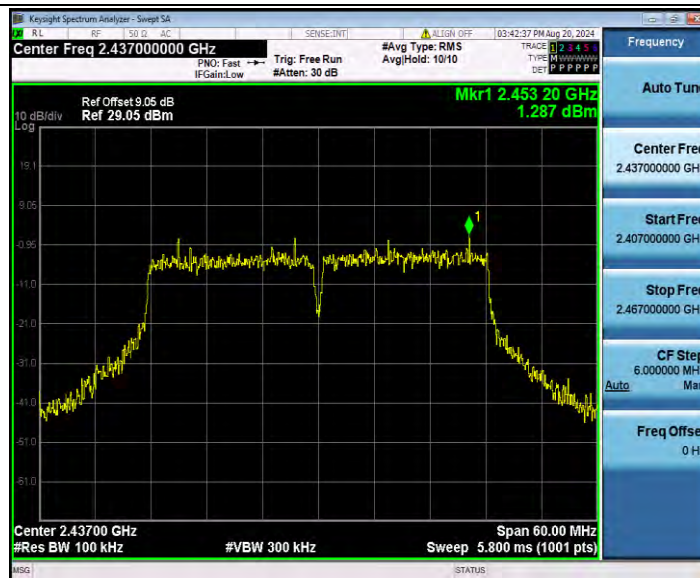
11N40SISO_Ant1_2422_30~1000



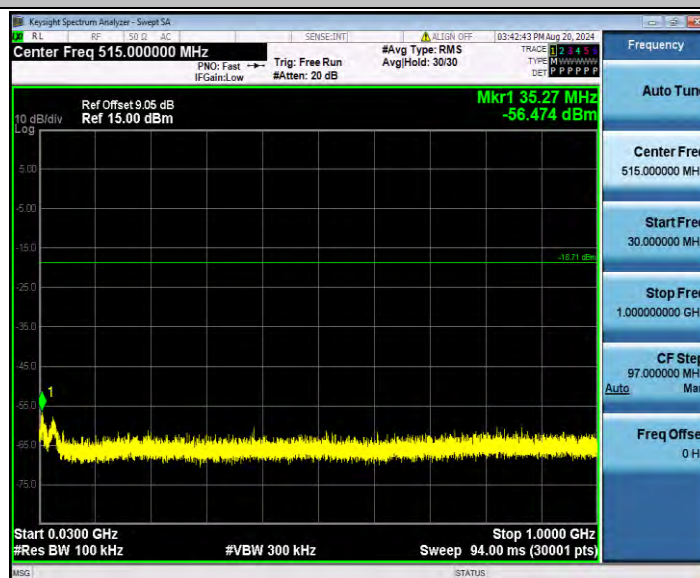
11N40SISO_Ant1_2422_1000~26500



11N40SISO_Ant1_2437_0~Reference



11N40SISO_Ant1_2437_30~1000



11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500

