

Case No. : <u>CTA24070301903</u>	
Ambient Condition: <u>23</u> °C, <u>51</u> %RH,	
Test Date: <u>2024.7.9</u>	Test Engineer: <u>Lushan Kong</u>

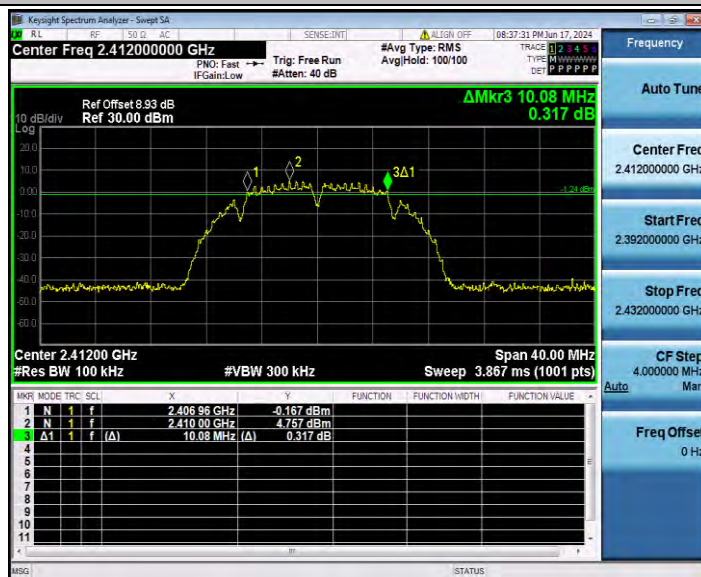
Appendix C.1: DTS Bandwidth

Test Result

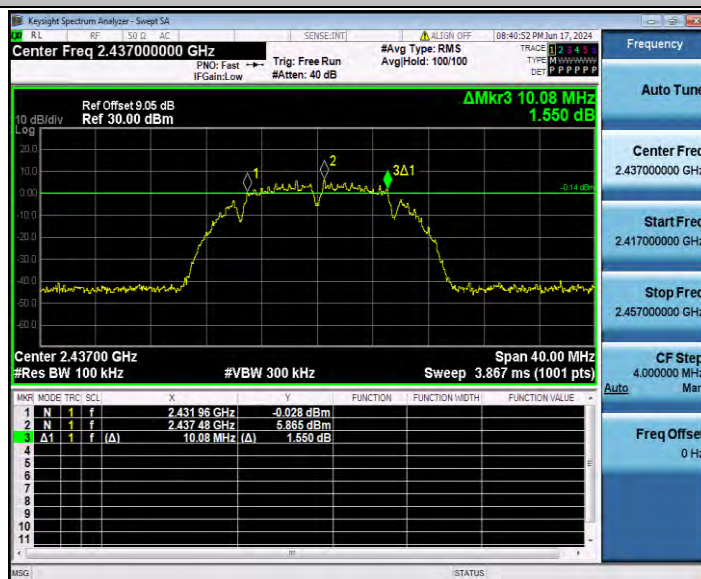
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant2	2412	10.080	2406.960	2417.040	0.5	PASS
		2437	10.080	2431.960	2442.040	0.5	PASS
		2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant2	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.400	2428.800	2445.200	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant2	2412	17.560	2403.200	2420.760	0.5	PASS
		2437	17.560	2428.240	2445.800	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS
11N40SISO	Ant2	2422	35.760	2404.400	2440.160	0.5	PASS
		2437	35.760	2419.400	2455.160	0.5	PASS
		2452	35.760	2434.400	2470.160	0.5	PASS

Test Graphs

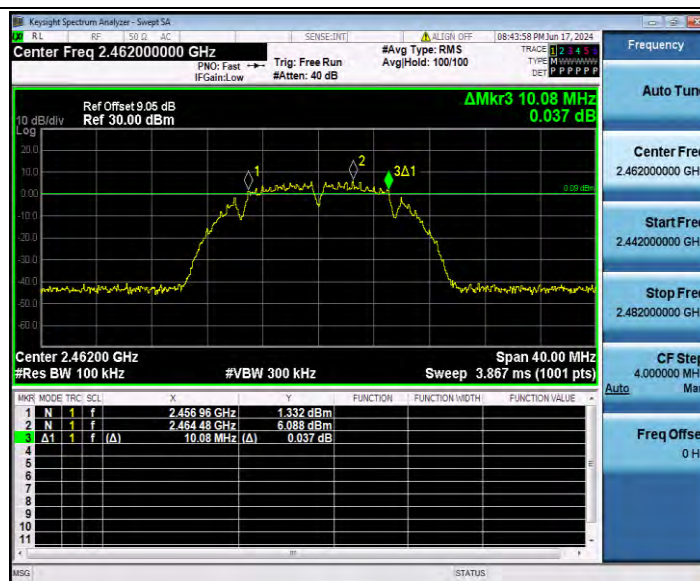
11B_Ant2_2412



11B_Ant2_2437



11B_Ant2_2462



11G_Ant2_2412



11G_Ant2_2437



11G_Ant2_2462



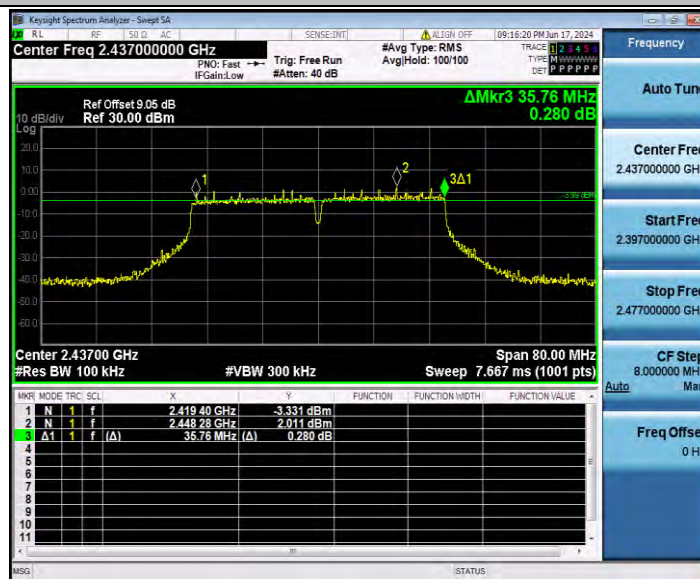
11N20SISO_Ant2_2412



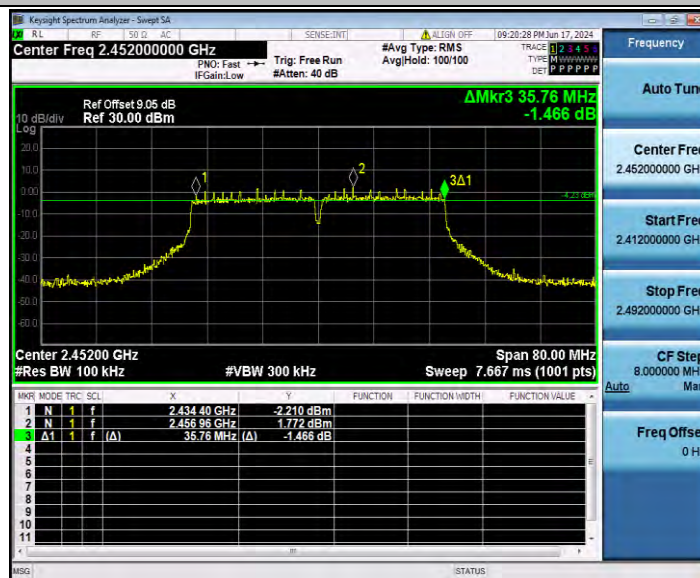
11N20SISO_Ant2_2437



11N40SISO_Ant2_2437



11N40SISO_Ant2_2452



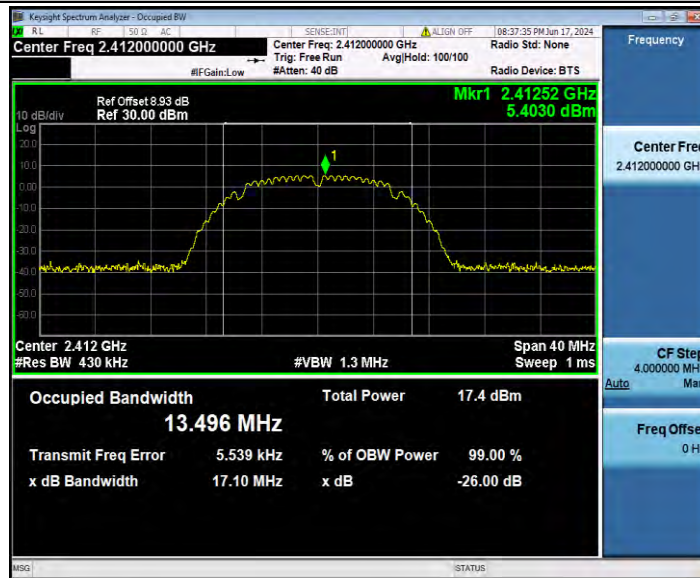
Appendix C.2: Occupied Channel Bandwidth

Test Result

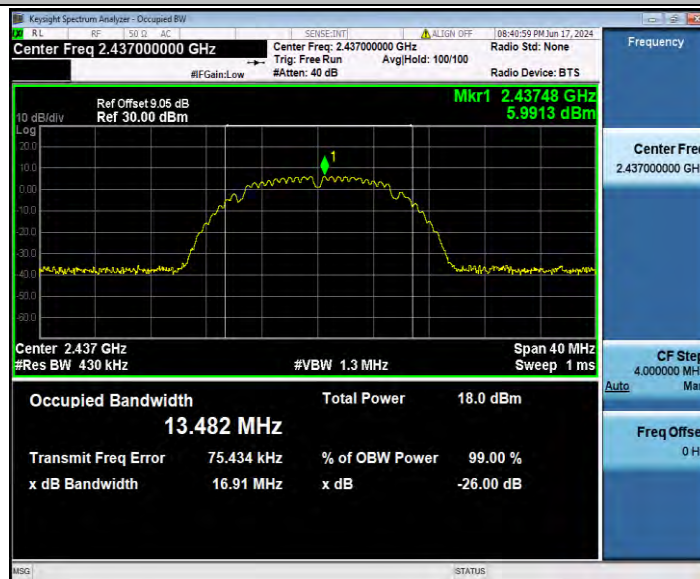
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant2	2412	13.496	2405.2575	2418.7535
		2437	13.482	2430.3344	2443.8164
		2462	13.458	2455.2856	2468.7436
11G	Ant2	2412	17.208	2403.4084	2420.6164
		2437	17.131	2428.4896	2445.6206
		2462	17.200	2453.4305	2470.6305
11N20SISO	Ant2	2412	18.343	2402.8519	2421.1949
		2437	18.282	2427.9056	2446.1876
		2462	18.285	2452.8703	2471.1553
11N40SISO	Ant2	2422	36.716	2403.8213	2440.5373
		2437	36.561	2418.8382	2455.3992
		2452	36.511	2433.8595	2470.3705

Test Graphs

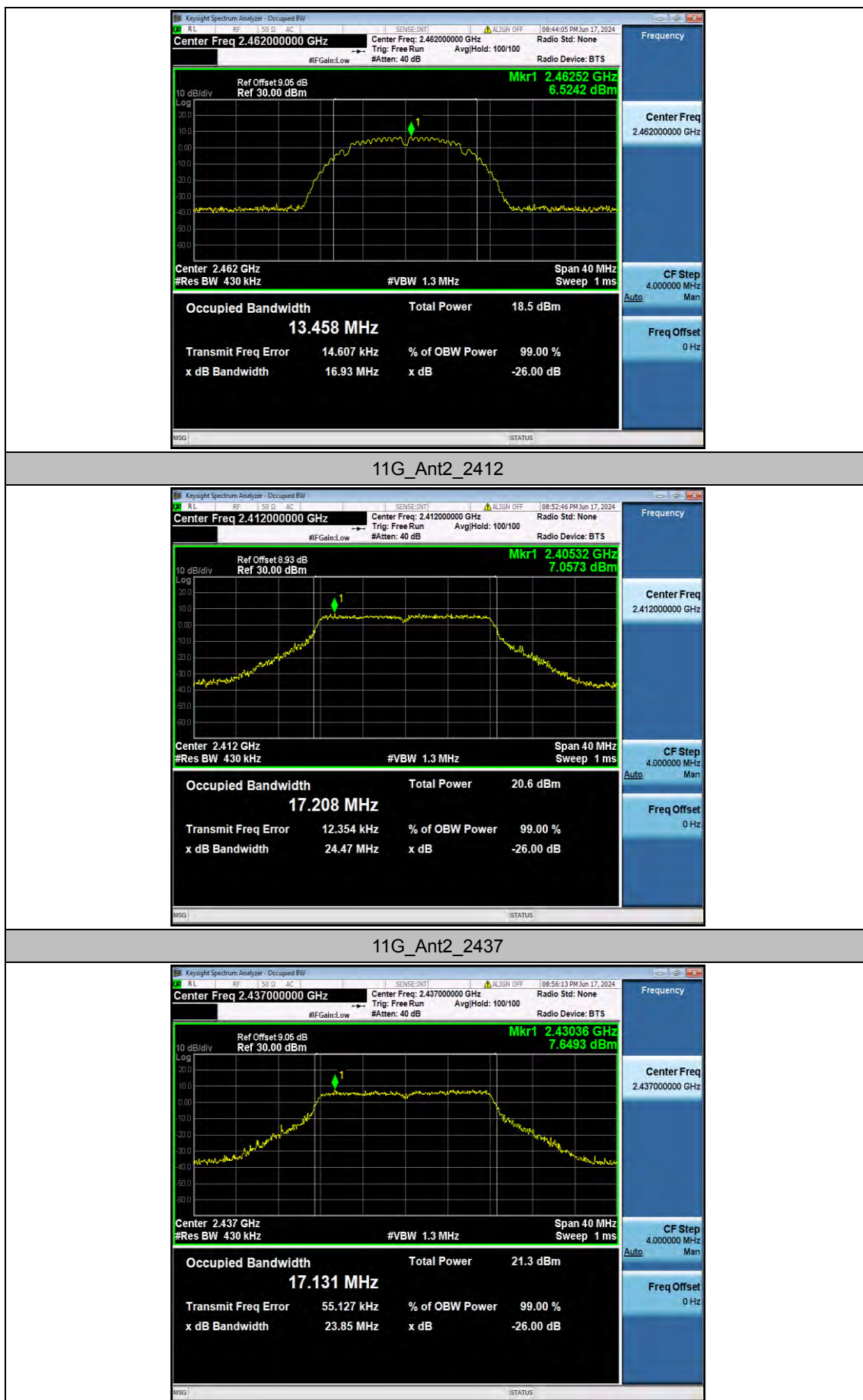
11B_Ant2_2412



11B_Ant2_2437



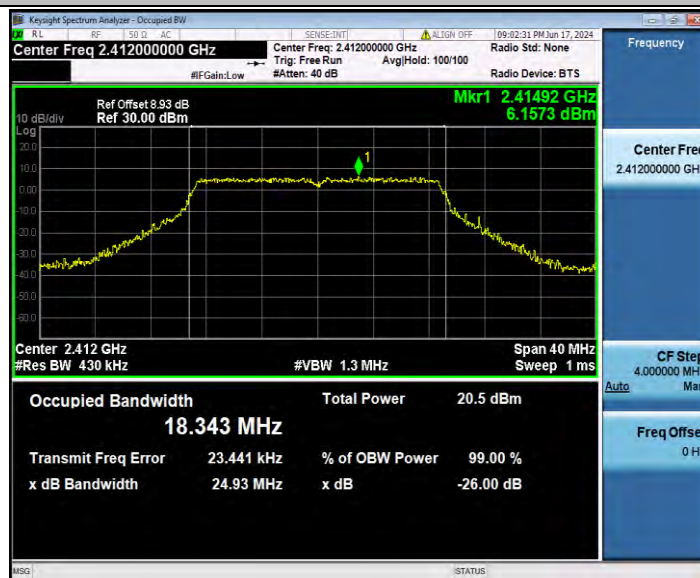
11B_Ant2_2462



11G_Ant2_2462



11N20SISO_Ant2_2412



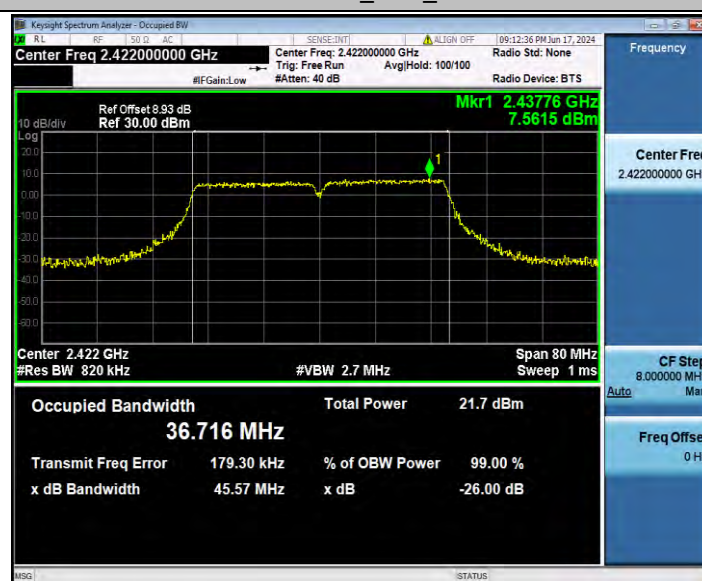
11N20SISO_Ant2_2437



11N20SISO_Ant2_2462



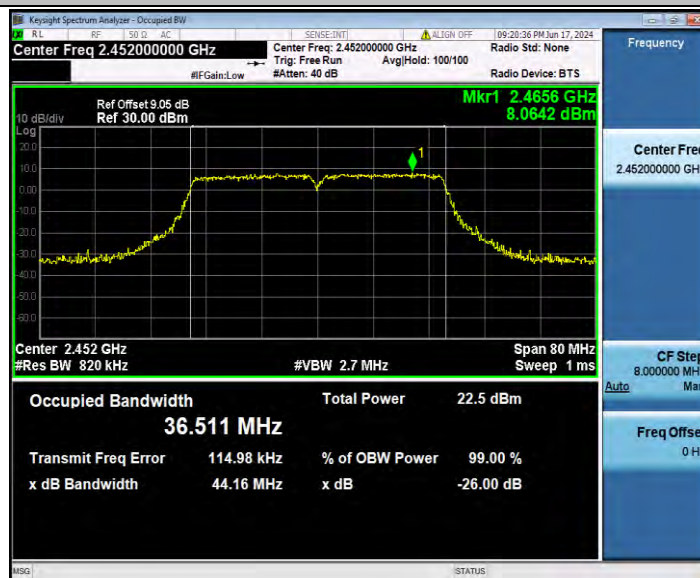
11N40SISO_Ant2_2422



11N40SISO_Ant2_2437



11N40SISO_Ant2_2452



Appendix C.3: Maximum conducted output power

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant2	2412	17.45	≤30.00	PASS
		2437	18.00	≤30.00	PASS
		2462	18.55	≤30.00	PASS
11G	Ant2	2412	21.69	≤30.00	PASS
		2437	22.35	≤30.00	PASS
		2462	22.83	≤30.00	PASS
11N20SISO	Ant2	2412	21.57	≤30.00	PASS
		2437	22.25	≤30.00	PASS
		2462	22.83	≤30.00	PASS
11N40SISO	Ant2	2422	21.95	≤30.00	PASS
		2437	22.53	≤30.00	PASS
		2452	22.69	≤30.00	PASS

Note:

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

Appendix C.4: Maximum power spectral density

Test Result

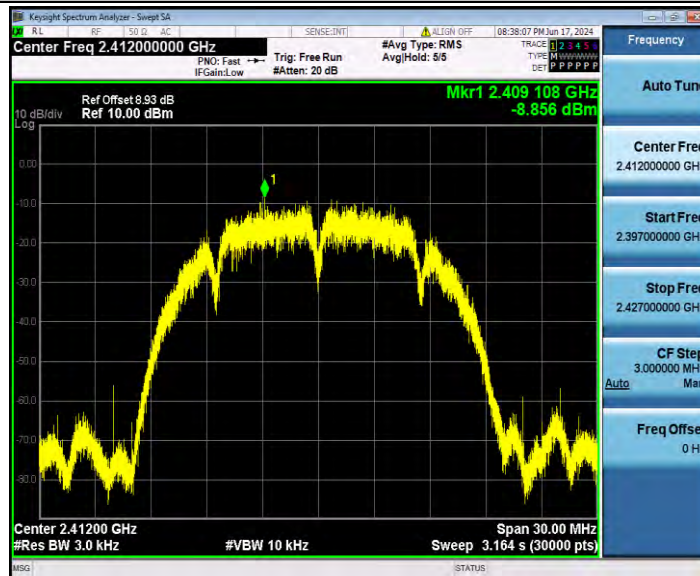
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant2	2412	-8.86	≤8.00	PASS
		2437	-7.61	≤8.00	PASS
		2462	-7.31	≤8.00	PASS
11G	Ant2	2412	-11.57	≤8.00	PASS
		2437	-9.41	≤8.00	PASS
		2462	-10.08	≤8.00	PASS
11N20SISO	Ant2	2412	-10.77	≤8.00	PASS
		2437	-10.41	≤8.00	PASS
		2462	-9.74	≤8.00	PASS
11N40SISO	Ant2	2422	-13.10	≤8.00	PASS
		2437	-12.94	≤8.00	PASS
		2452	-13.37	≤8.00	PASS

Note:

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

Test Graphs

11B_Ant2_2412



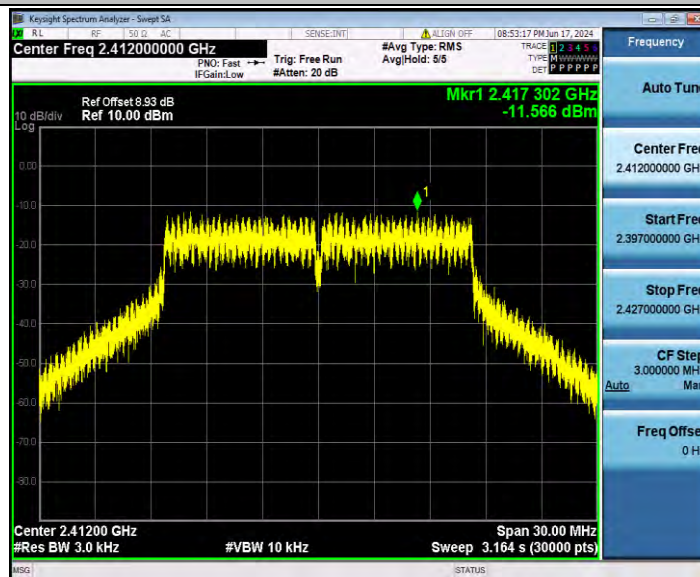
11B_Ant2_2437



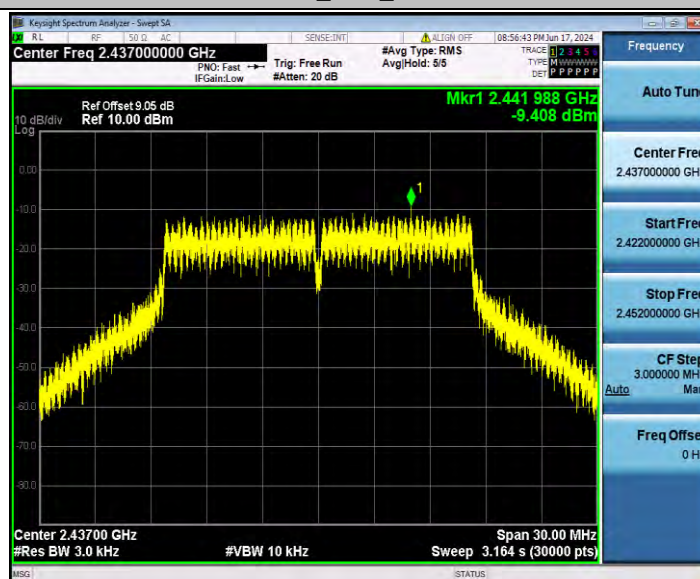
11B_Ant2_2462



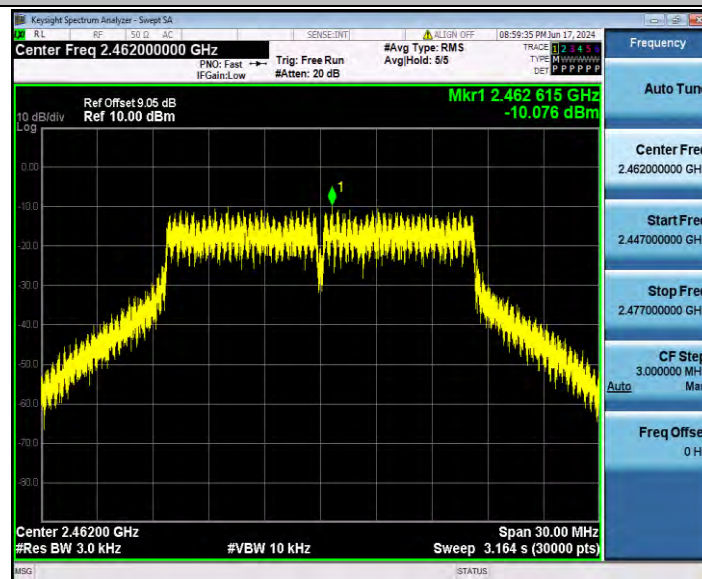
11G_Ant2_2412



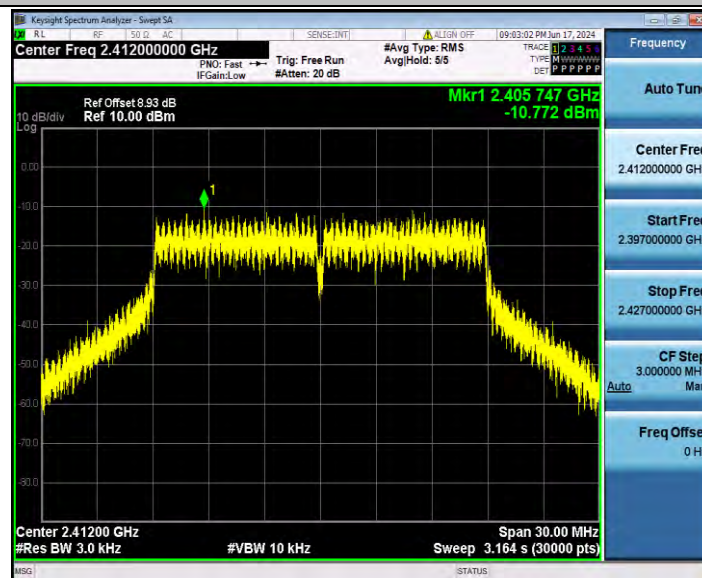
11G_Ant2_2437



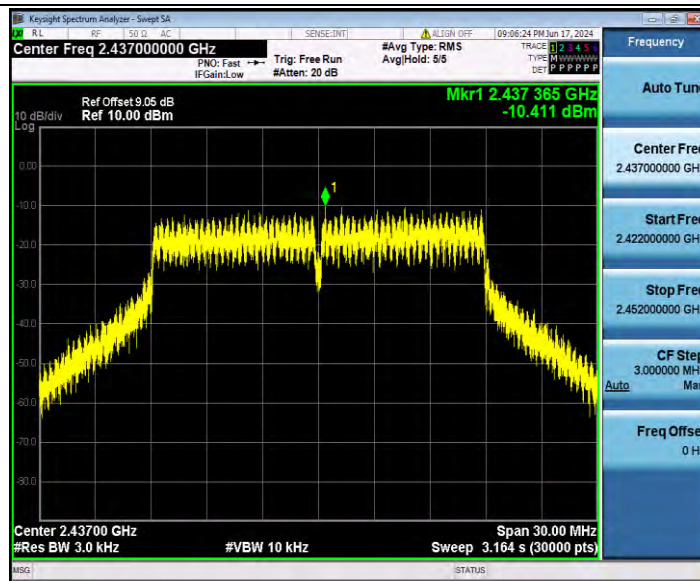
11G_Ant2_2462



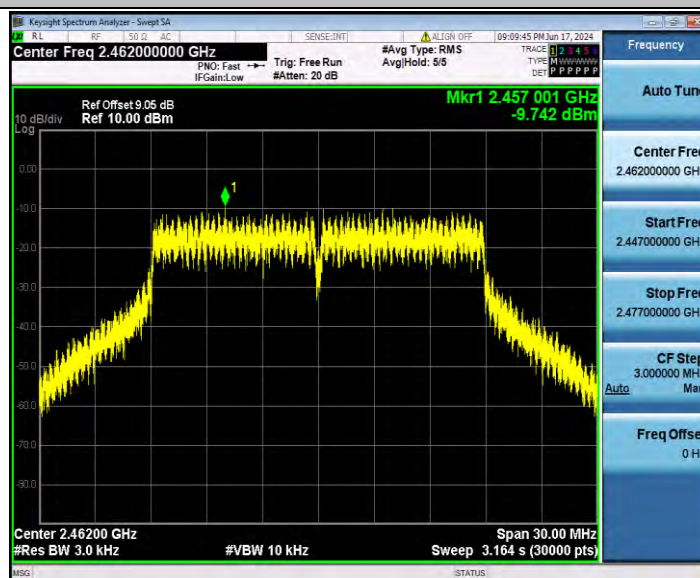
11N20SISO_Ant2_2412



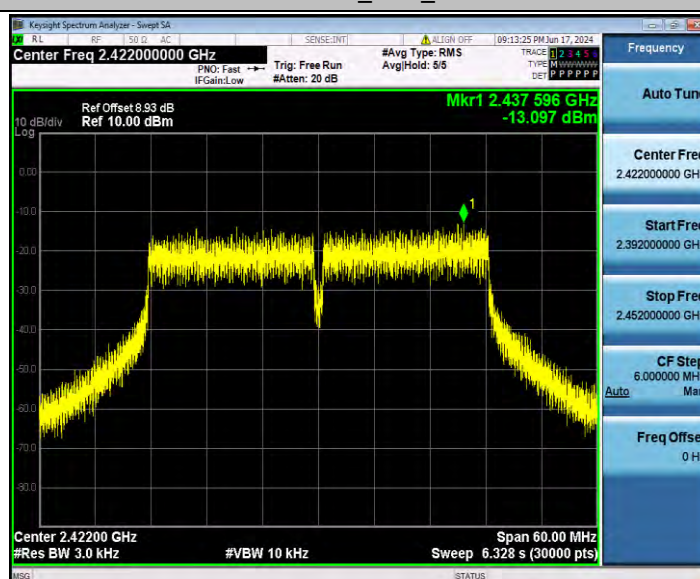
11N20SISO_Ant2_2437



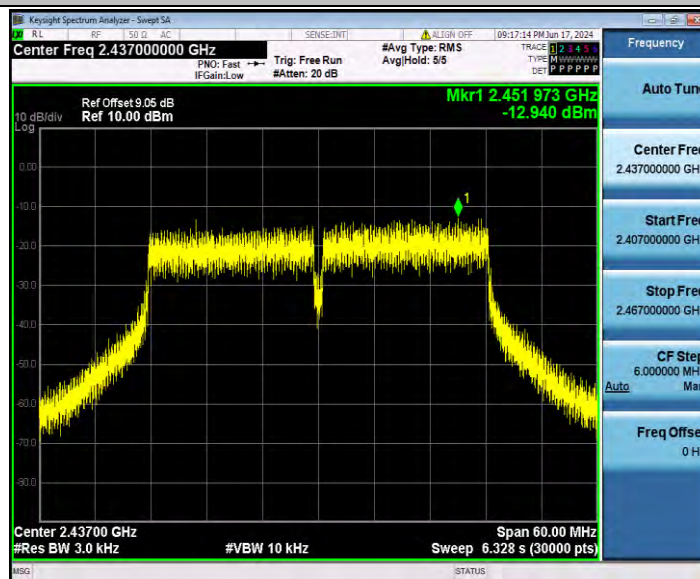
11N20SISO_Ant2_2462



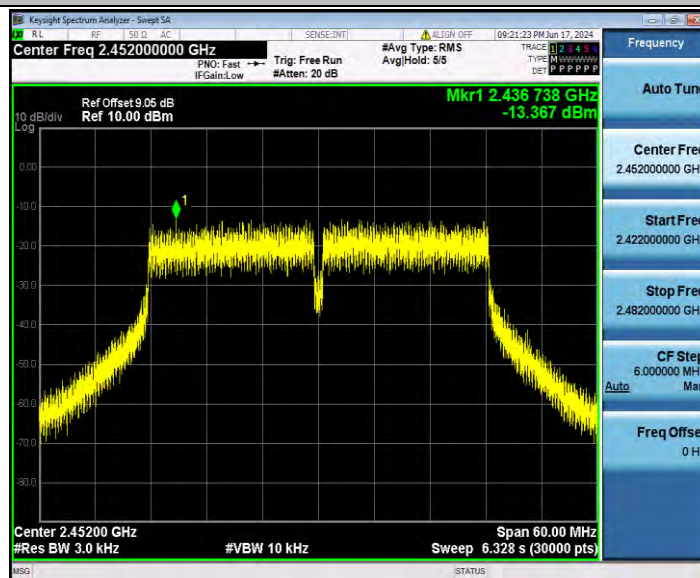
11N40SISO_Ant2_2422



11N40SISO_Ant2_2437



11N40SISO_Ant2_2452



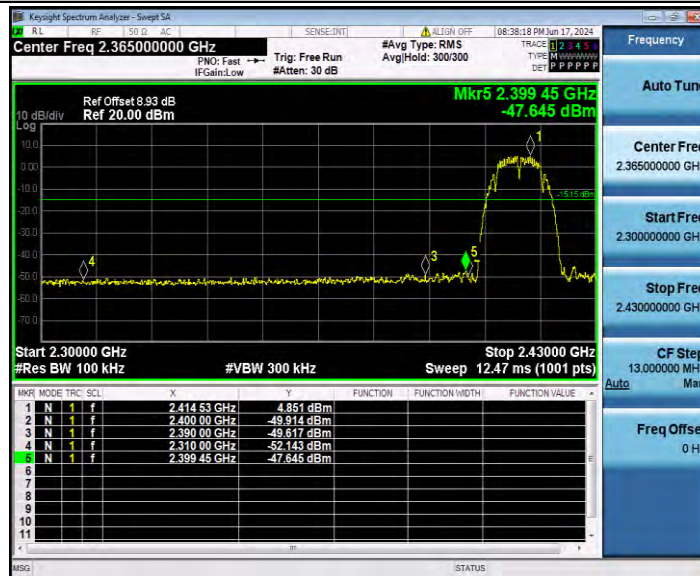
Appendix C.5: Band edge measurements

Test Result

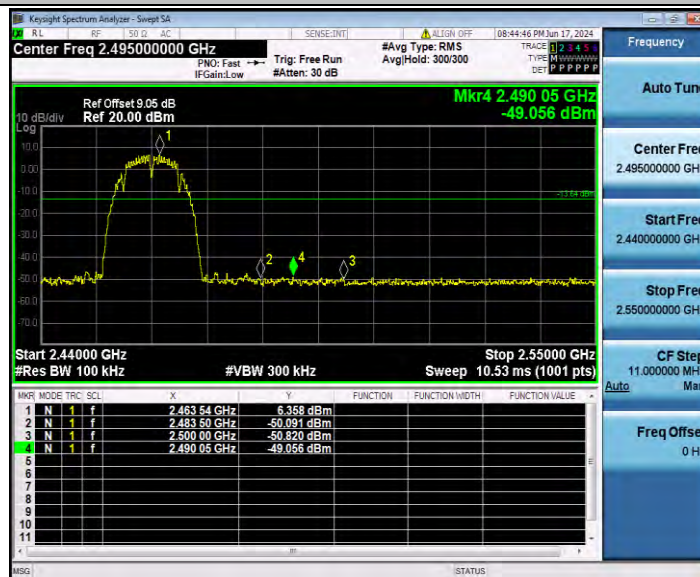
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant2	Low	2412	4.85	-47.65	≤ -15.15	PASS
		High	2462	6.36	-49.06	≤ -13.64	PASS
11G	Ant2	Low	2412	3.76	-24.49	≤ -16.25	PASS
		High	2462	5.13	-48.25	≤ -14.87	PASS
11N20SISO	Ant2	Low	2412	3.72	-22.63	≤ -16.28	PASS
		High	2462	4.89	-46.22	≤ -15.11	PASS
11N40SISO	Ant2	Low	2422	0.74	-26.41	≤ -19.26	PASS
		High	2452	1.94	-39.48	≤ -18.06	PASS

Test Graphs

11B_Ant2_Low_2412



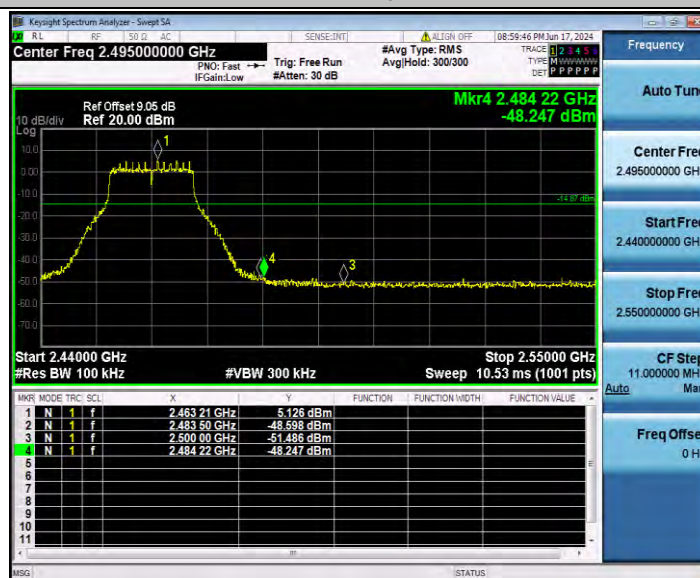
11B_Ant2_High_2462



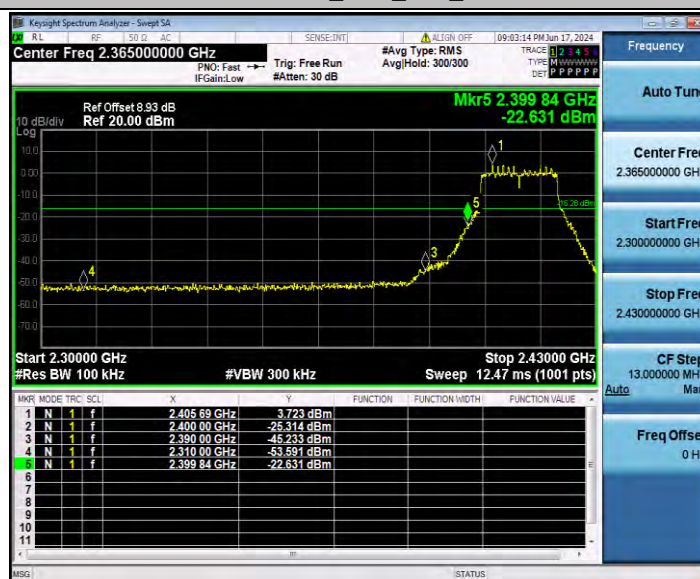
11G_Ant2_Low_2412



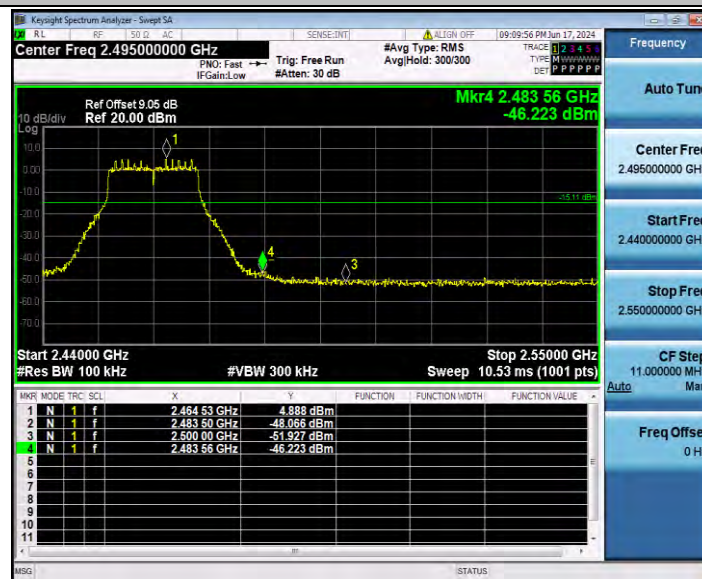
11G_Ant2_High_2462



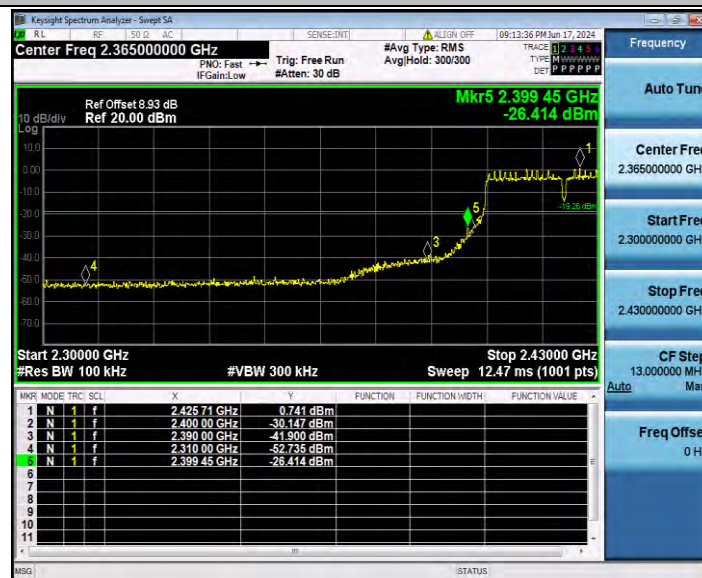
11N20SISO_Ant2_Low_2412



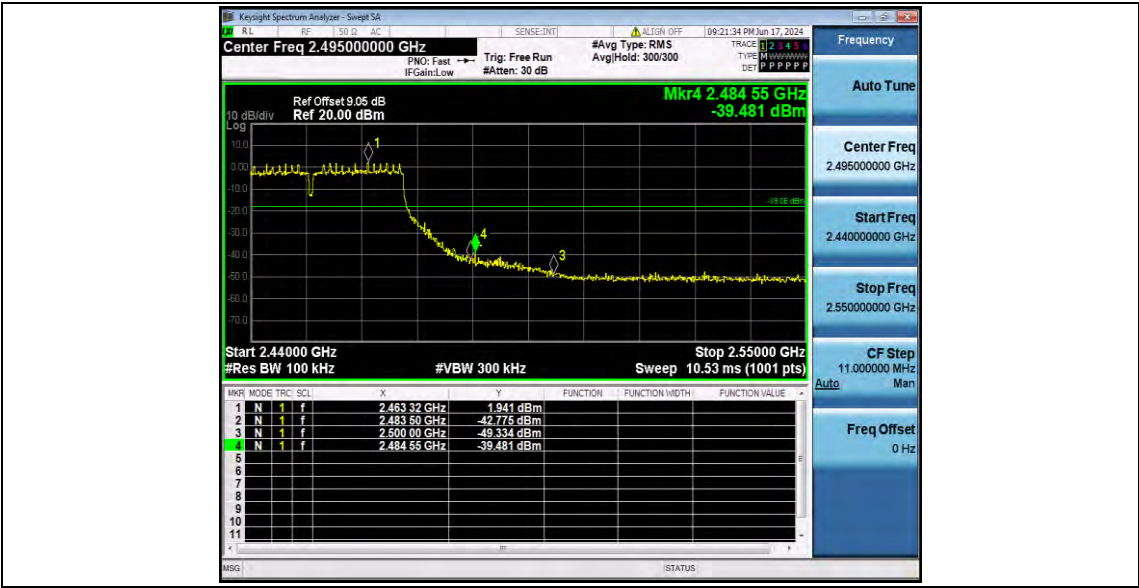
11N20SISO_Ant2_High_2462



11N40SISO_Ant2_Low_2422



11N40SISO_Ant2_High_2452

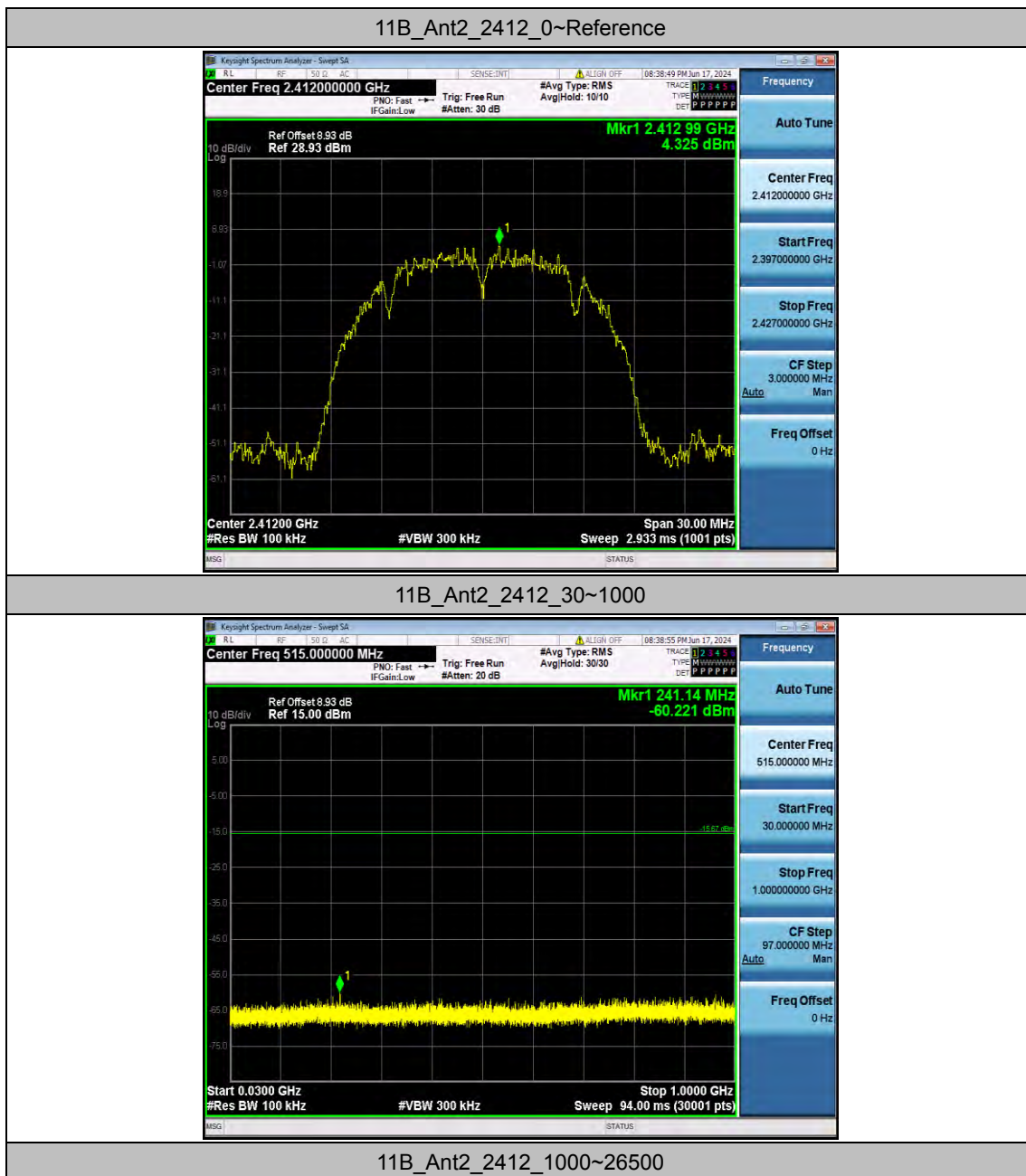


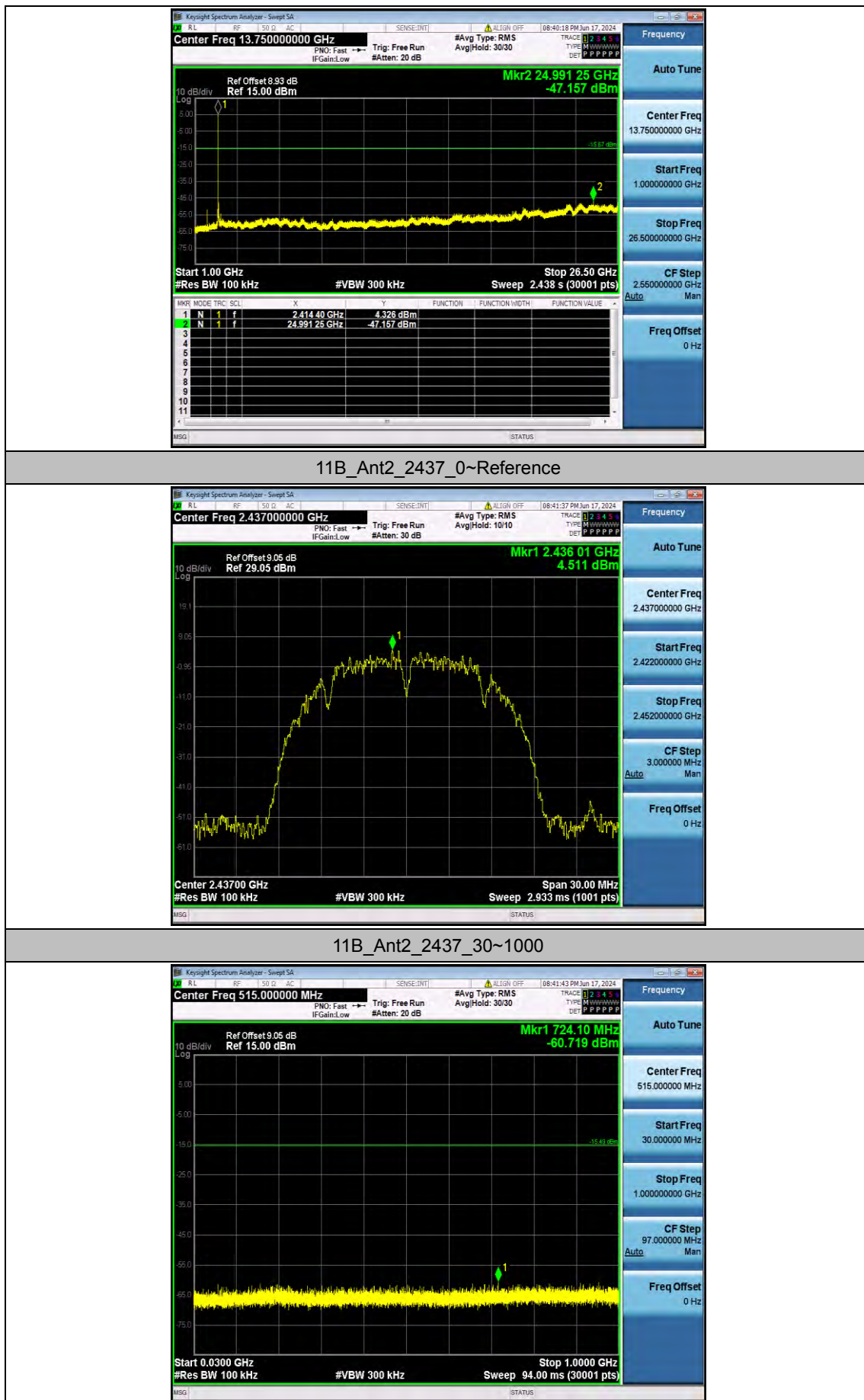
Appendix C.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant2	2412	Reference	4.33	4.33	---	PASS
			30~1000	4.33	-60.22	≤ -15.67	PASS
			1000~26500	4.33	-47.16	≤ -15.67	PASS
		2437	Reference	4.51	4.51	---	PASS
			30~1000	4.51	-60.72	≤ -15.49	PASS
			1000~26500	4.51	-48.12	≤ -15.49	PASS
		2462	Reference	4.62	4.62	---	PASS
			30~1000	4.62	-44.22	≤ -15.38	PASS
			1000~26500	4.62	-47.9	≤ -15.38	PASS
11G	Ant2	2412	Reference	3.11	3.11	---	PASS
			30~1000	3.11	-60.12	≤ -16.89	PASS
			1000~26500	3.11	-48.05	≤ -16.89	PASS
		2437	Reference	4.29	4.29	---	PASS
			30~1000	4.29	-47.64	≤ -15.71	PASS
			1000~26500	4.29	-38.51	≤ -15.71	PASS
		2462	Reference	4.00	4.00	---	PASS
			30~1000	4.00	-60.21	≤ -16	PASS
			1000~26500	4.00	-35.03	≤ -16	PASS
11N20SISO	Ant2	2412	Reference	0.95	0.95	---	PASS
			30~1000	0.95	-60.69	≤ -19.05	PASS
			1000~26500	0.95	-48.07	≤ -19.05	PASS
		2437	Reference	1.21	1.21	---	PASS
			30~1000	1.21	-60.1	≤ -18.79	PASS
			1000~26500	1.21	-47.9	≤ -18.79	PASS
		2462	Reference	1.27	1.27	---	PASS
			30~1000	1.27	-60.59	≤ -18.73	PASS
			1000~26500	1.27	-47.9	≤ -18.73	PASS
11N40SISO	Ant2	2422	Reference	-0.08	-0.08	---	PASS
			30~1000	-0.08	-60.82	≤ -20.08	PASS
			1000~26500	-0.08	-46.92	≤ -20.08	PASS
		2437	Reference	1.27	1.27	---	PASS
			30~1000	1.27	-60.54	≤ -18.73	PASS
			1000~26500	1.27	-47.83	≤ -18.73	PASS
		2452	Reference	-0.18	-0.18	---	PASS
			30~1000	-0.18	-60.27	≤ -20.18	PASS
			1000~26500	-0.18	-48.07	≤ -20.18	PASS

Test Graphs





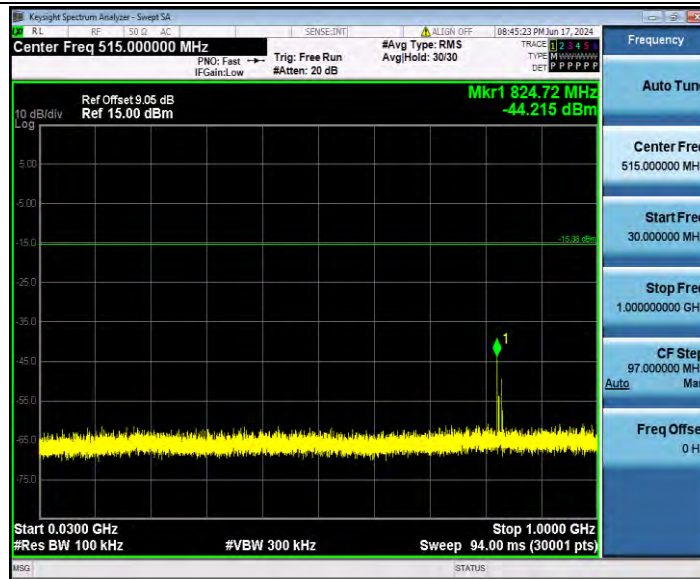
11B_Ant2_2437_1000~26500



11B_Ant2_2462_0~Reference



11B_Ant2_2462_30~1000



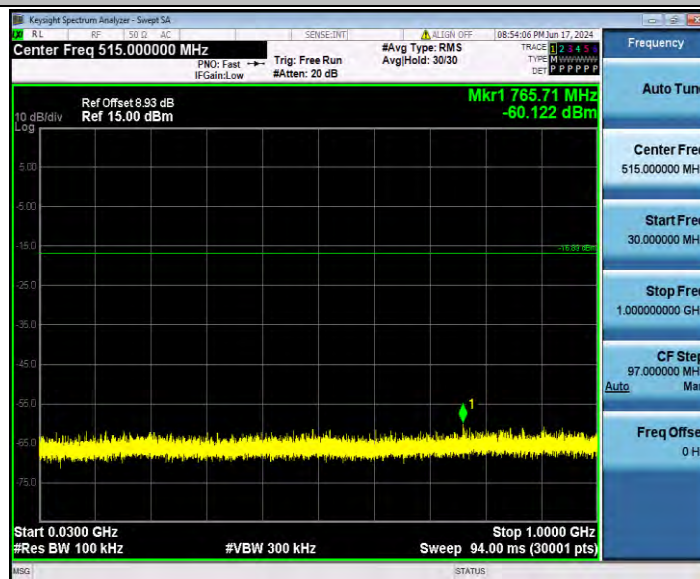
11B_Ant2_2462_1000~26500



11G_Ant2_2412_0~Reference



11G_Ant2_2412_30~1000



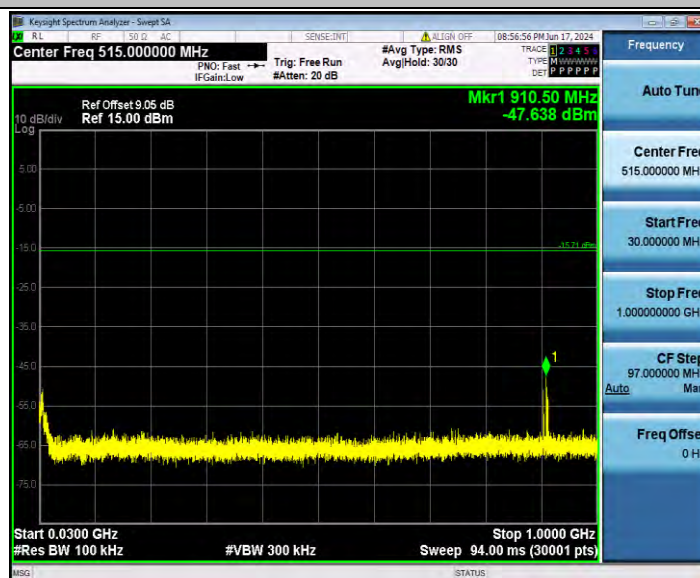
11G_Ant2_2412_1000~26500



11G_Ant2_2437_0~Reference



11G_Ant2_2437_30~1000



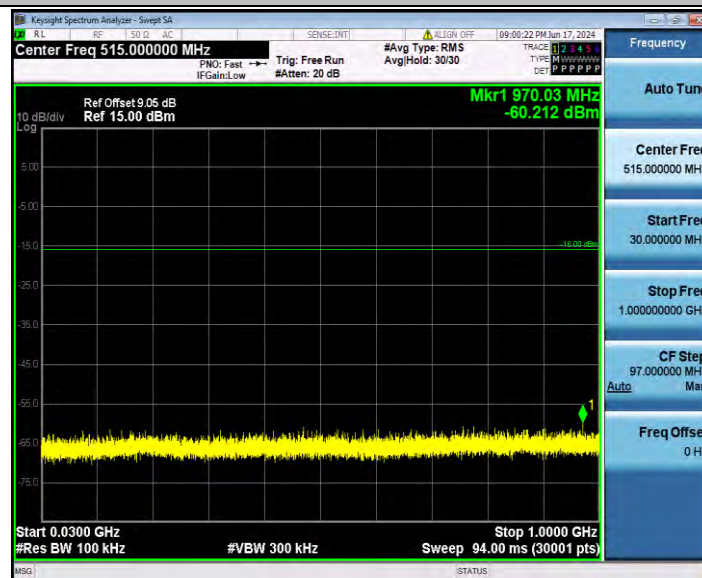
11G_Ant2_2437_1000~26500



11G_Ant2_2462_0~Reference

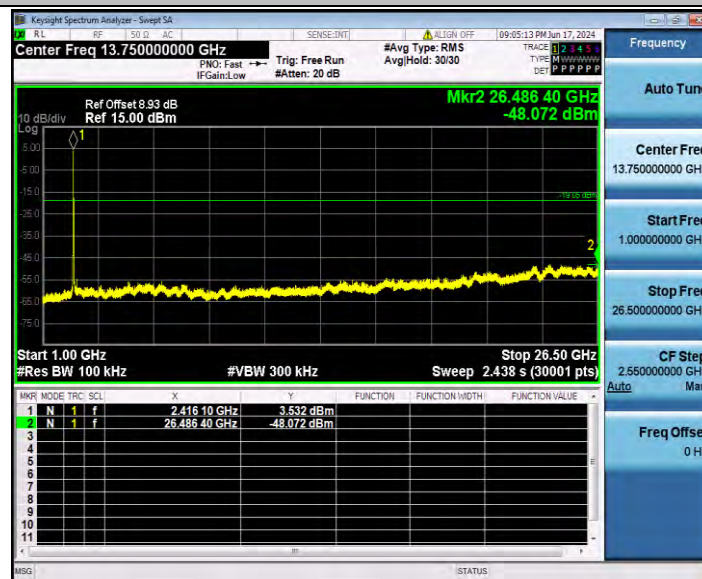


11G_Ant2_2462_30~1000



11G_Ant2_2462_1000~26500

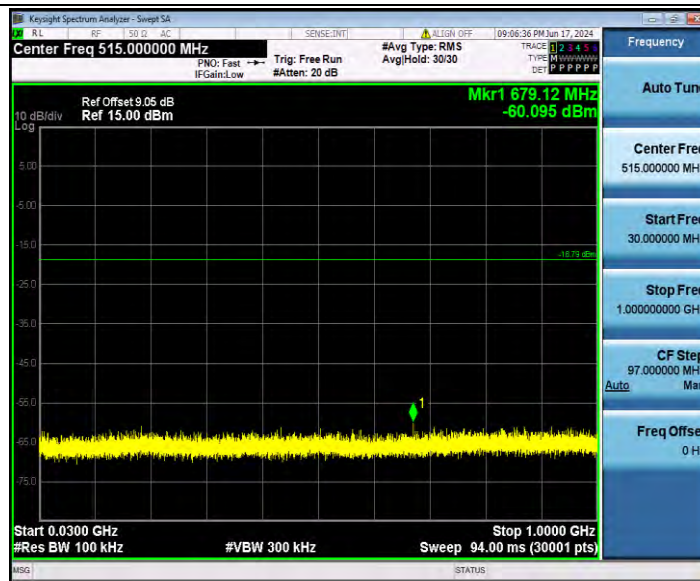
11N20SISO_Ant2_2412_1000~26500



11N20SISO_Ant2_2437_0~Reference



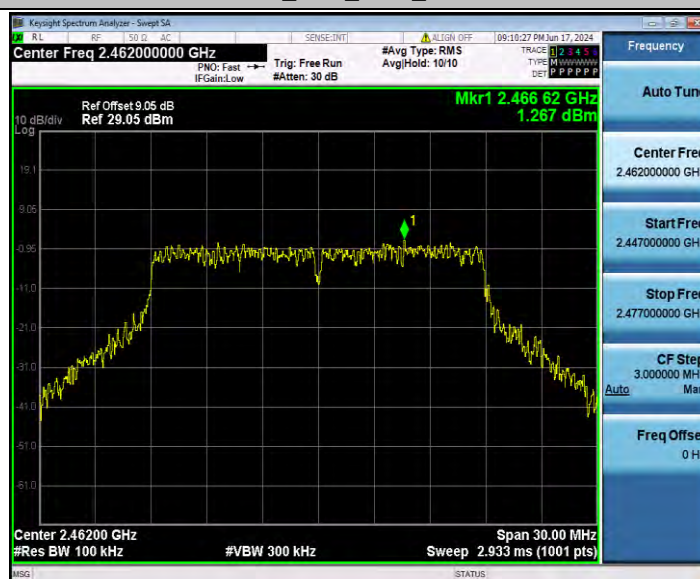
11N20SISO_Ant2_2437_30~1000



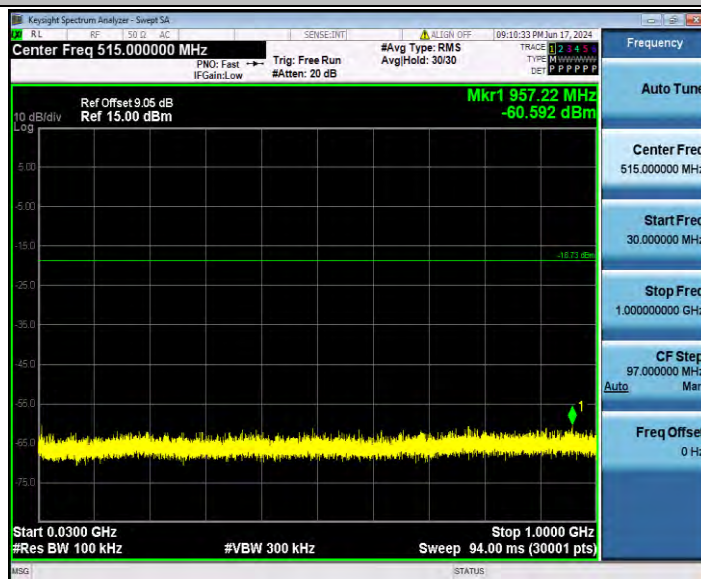
11N20SISO_Ant2_2437_1000~26500



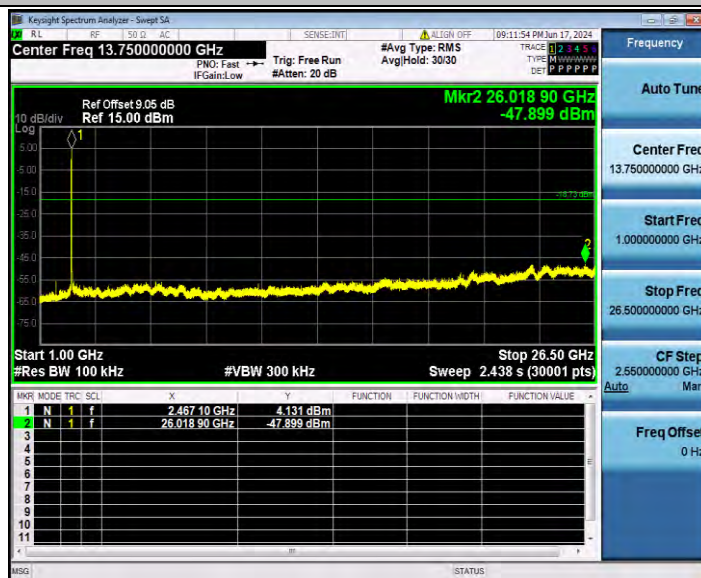
11N20SISO_Ant2_2462_0~Reference



11N20SISO_Ant2_2462_30~1000



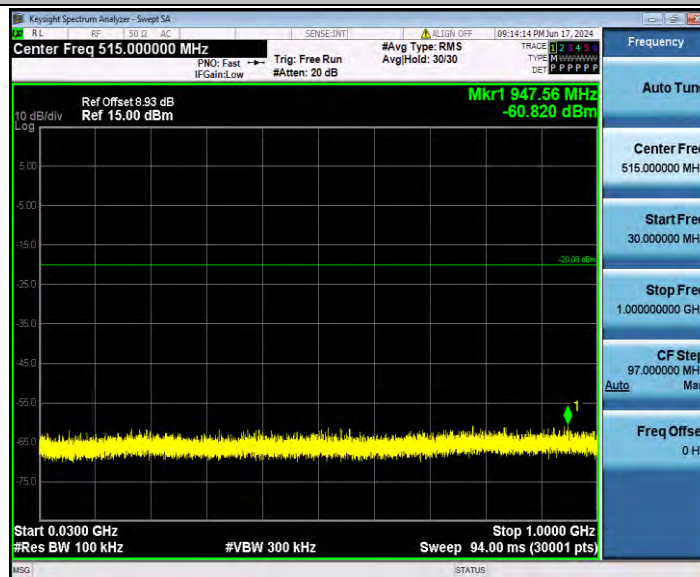
11N20SISO_Ant2_2462_1000~26500



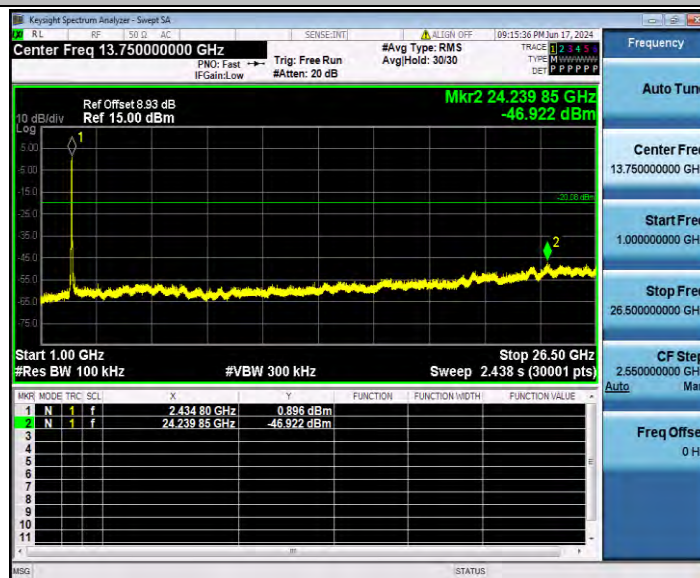
11N40SISO_Ant2_2422_0~Reference



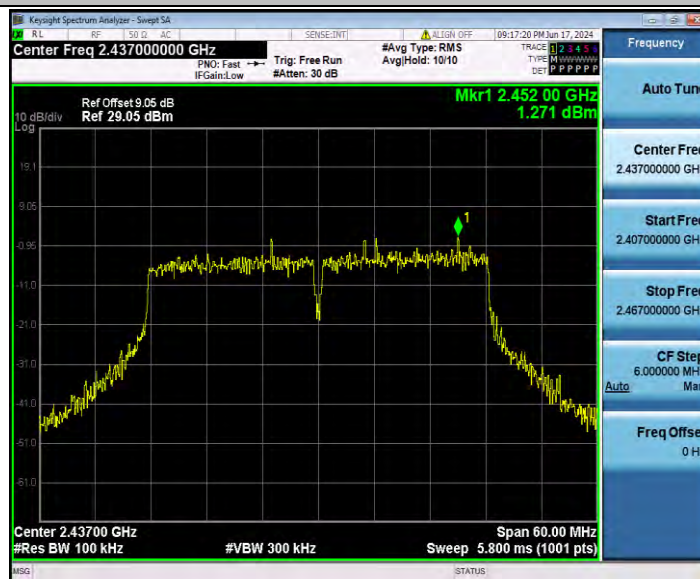
11N40SISO_Ant2_2422_30~1000



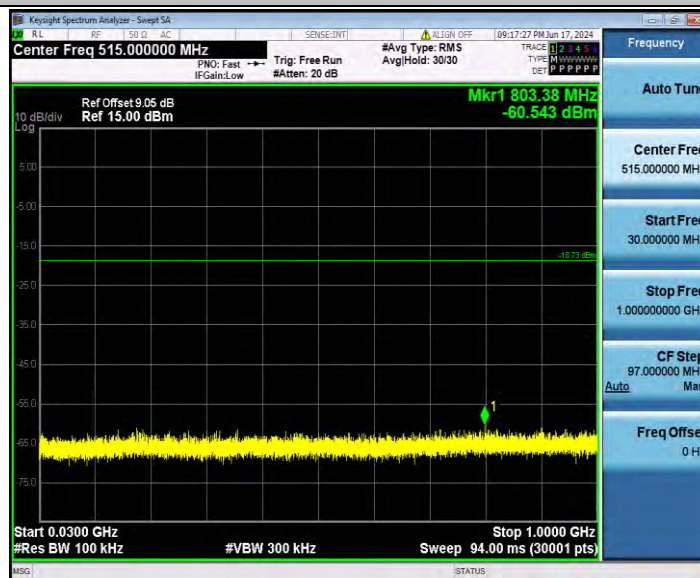
11N40SISO_Ant2_2422_1000~26500



11N40SISO_Ant2_2437_0~Reference



11N40SISO_Ant2_2437_30~1000



11N40SISO_Ant2_2437_1000~26500

