

Case No. : <u>GTS20250304004-1-03</u>	
Ambient Condition: <u>22</u> °C, <u>56</u> %RH,	
Test Date: <u>2025.3.6</u>	Test Engineer: <u>Evan ouyang</u>

Appendix A.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	10.120	2456.920	2467.040	0.5	PASS
11G	Ant1	2412	15.120	2404.440	2419.560	0.5	PASS
		2437	15.120	2429.440	2444.560	0.5	PASS
		2462	15.080	2454.480	2469.560	0.5	PASS
11N20SISO	Ant1	2412	15.080	2404.440	2419.520	0.5	PASS
		2437	15.120	2429.440	2444.560	0.5	PASS
		2462	15.120	2454.440	2469.560	0.5	PASS
11N40SISO	Ant1	2422	35.040	2404.480	2439.520	0.5	PASS
		2437	35.040	2419.480	2454.520	0.5	PASS
		2452	35.040	2434.480	2469.520	0.5	PASS

Test Graphs



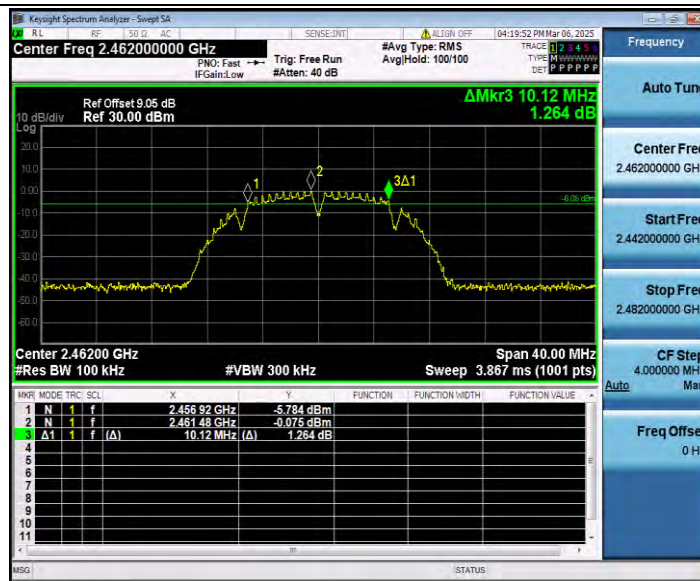
11B_Ant1_2437

Frequency

Auto Tune

Center Freq
2.437000000 GHzStart Freq
2.417000000 GHzStop Freq
2.457000000 GHzCF Step
4.000000 MHz
Auto ManFreq Offset
0 Hz

11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



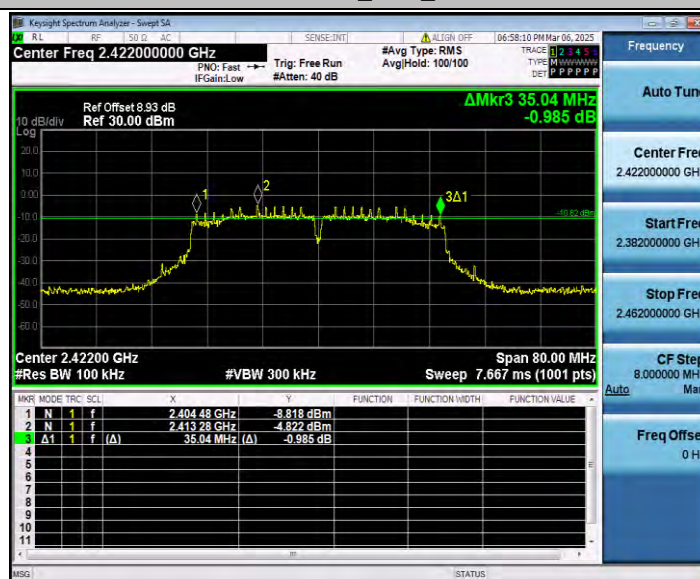
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422





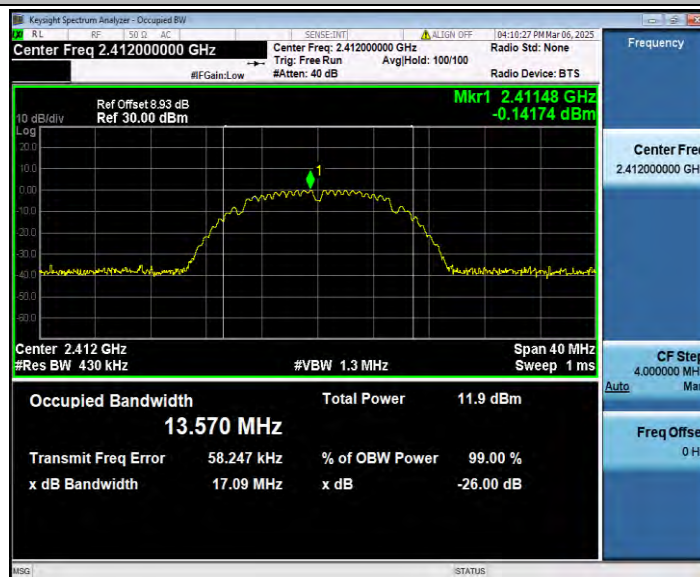
Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.570	2405.2733	2418.8433	---	---
		2437	13.498	2430.3258	2443.8238	---	---
		2462	13.473	2455.2779	2468.7509	---	---
11G	Ant1	2412	16.835	2403.6482	2420.4832	---	---
		2437	16.790	2428.6600	2445.4500	---	---
		2462	16.801	2453.6605	2470.4615	---	---
11N20SISO	Ant1	2412	17.996	2403.0396	2421.0356	---	---
		2437	17.976	2428.0396	2446.0156	---	---
		2462	17.895	2453.0199	2470.9149	---	---
11N40SISO	Ant1	2422	36.108	2403.9091	2440.0171	---	---
		2437	36.097	2418.9981	2455.0951	---	---
		2452	36.126	2434.0124	2470.1384	---	---

Test Graphs

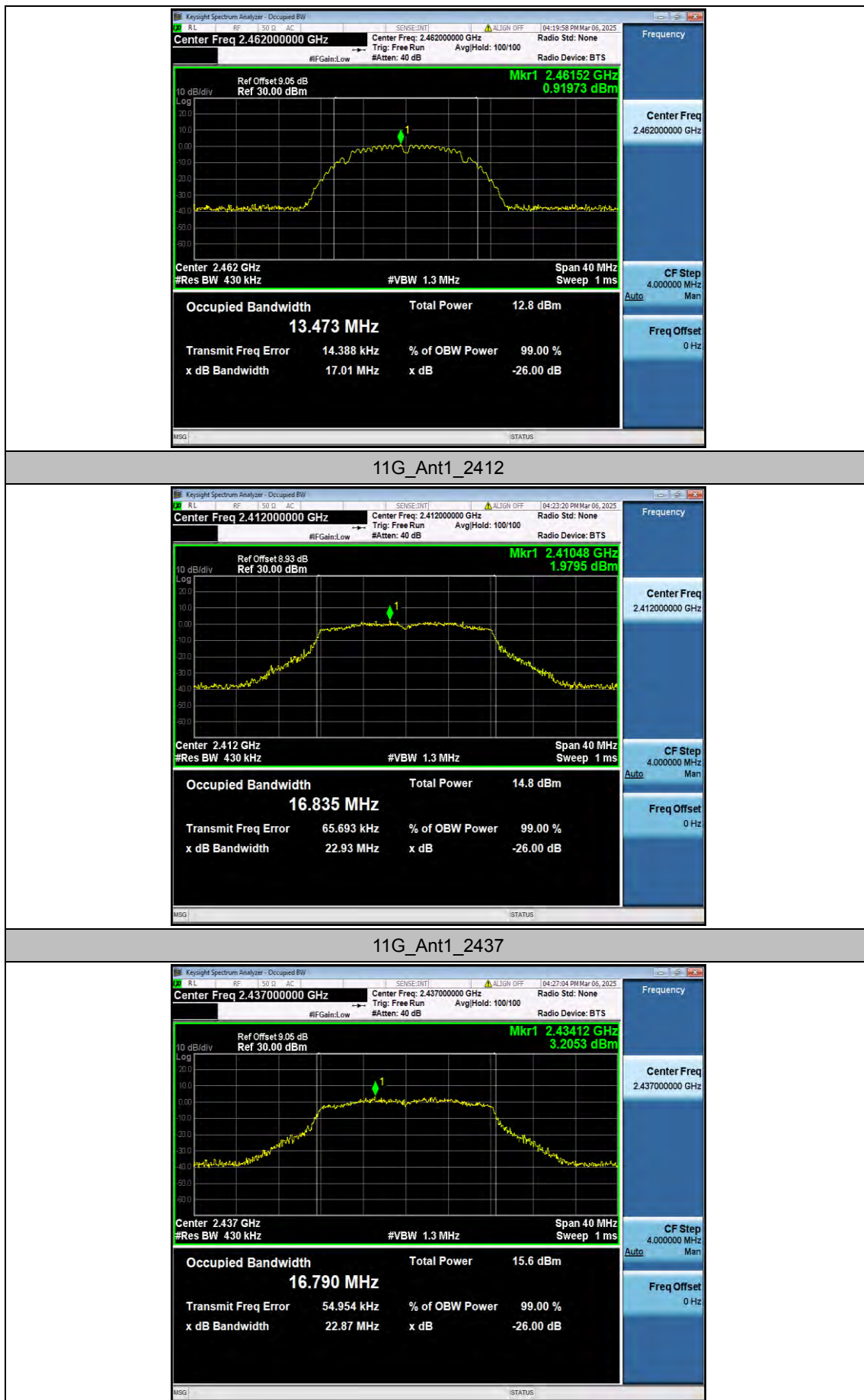
11B_Ant1_2412



11B_Ant1_2437



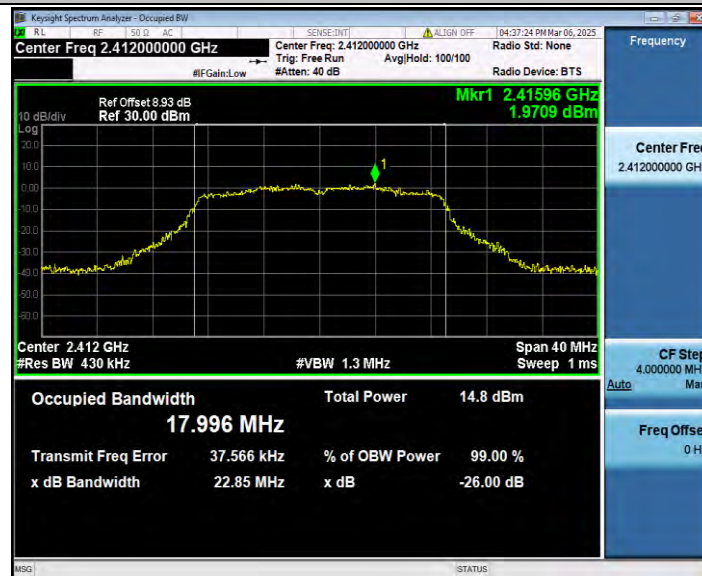
11B_Ant1_2462



11G_Ant1_2462



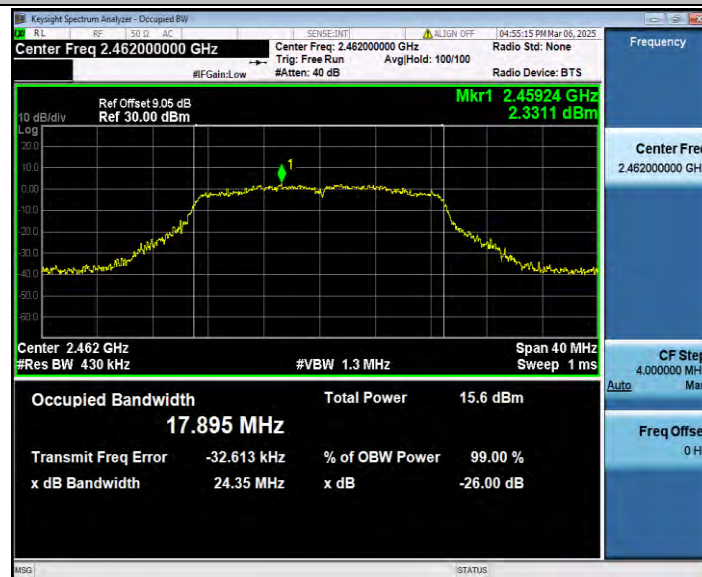
11N20SISO_Ant1_2412



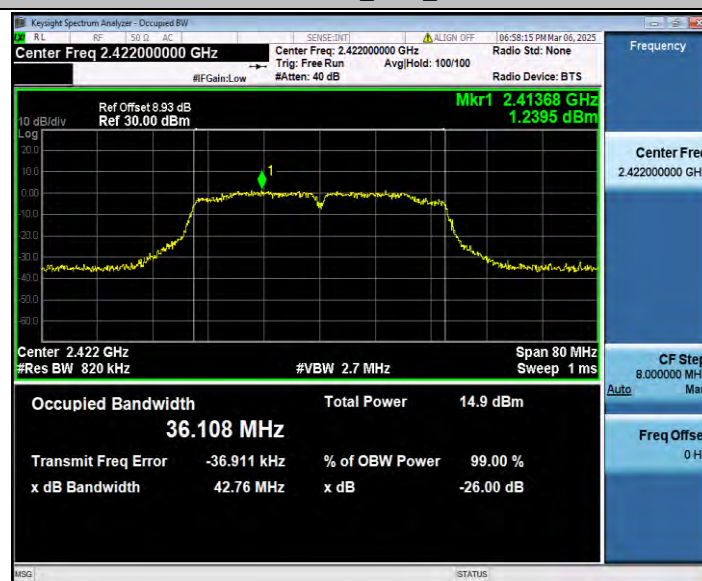
11N20SISO_Ant1_2437



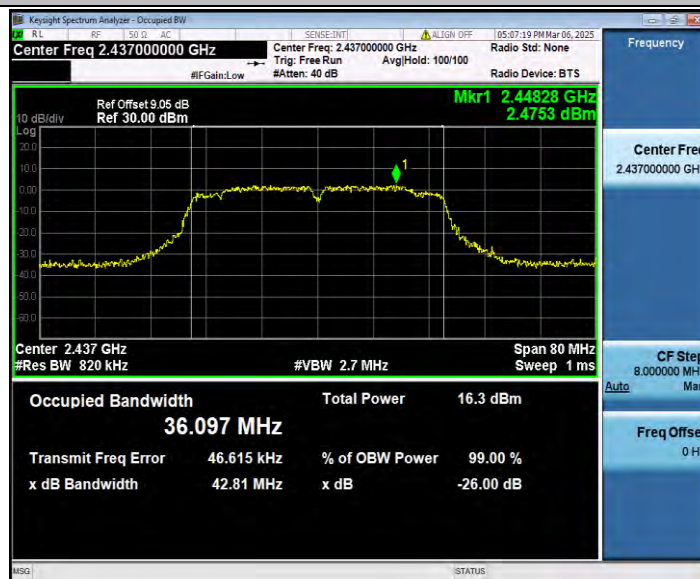
11N20SISO_Ant1_2462



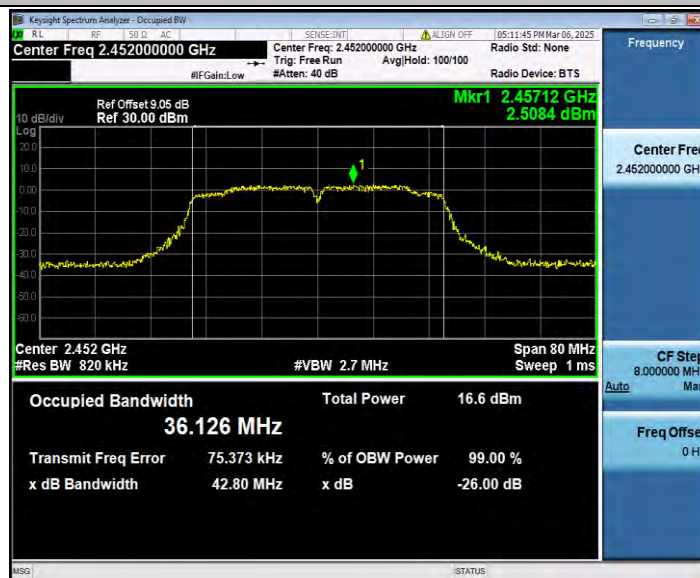
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix A.3: Maximum conducted output power

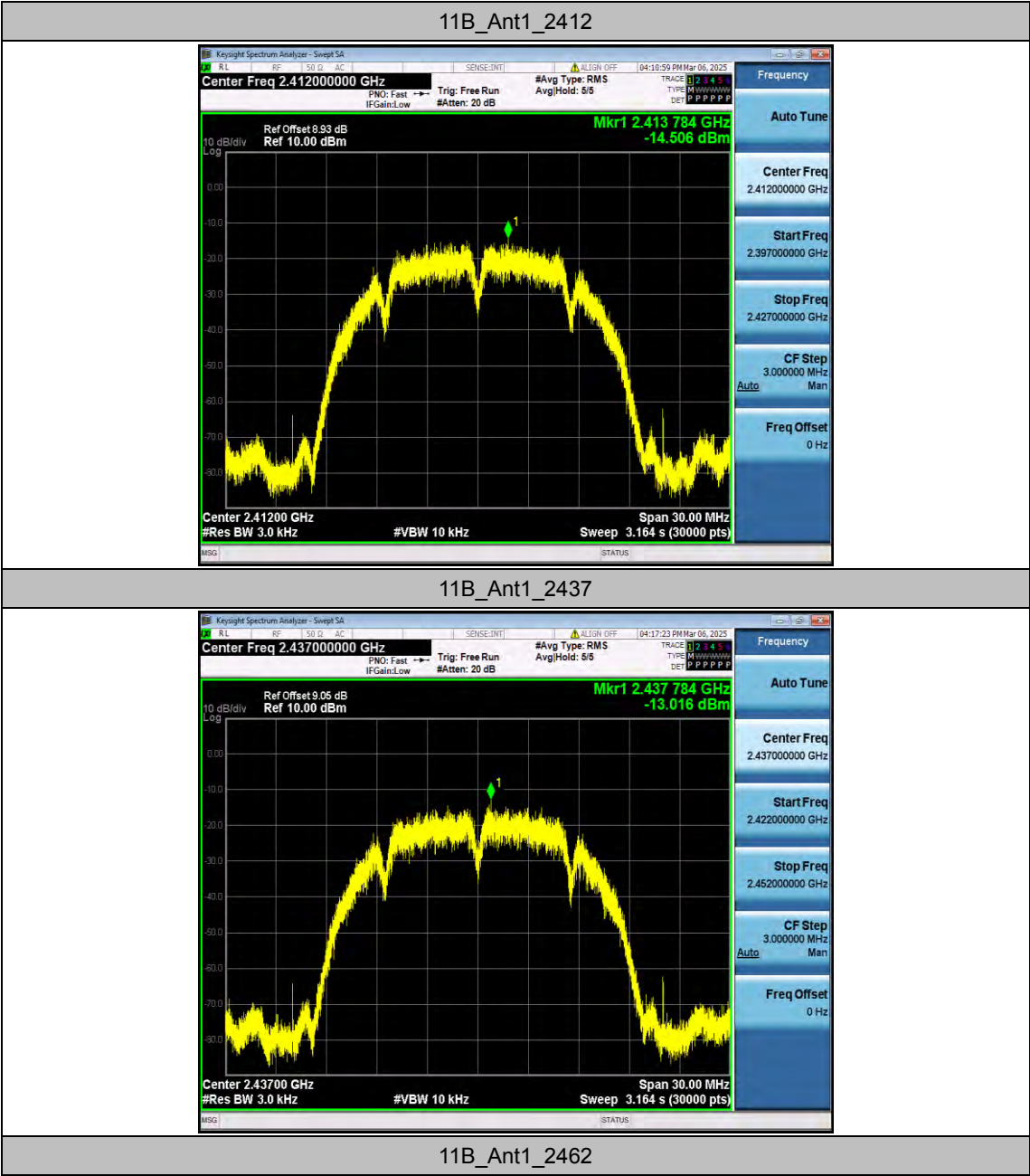
Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	12.02	≤30.00	PASS
		2437	12.56	≤30.00	PASS
		2462	12.92	≤30.00	PASS
11G	Ant1	2412	15.85	≤30.00	PASS
		2437	16.50	≤30.00	PASS
		2462	16.84	≤30.00	PASS
11N20SISO	Ant1	2412	15.73	≤30.00	PASS
		2437	16.40	≤30.00	PASS
		2462	16.68	≤30.00	PASS
11N40SISO	Ant1	2422	15.19	≤30.00	PASS
		2437	16.51	≤30.00	PASS
		2452	16.73	≤30.00	PASS

Appendix A.4: Maximum power spectral density

Test Result

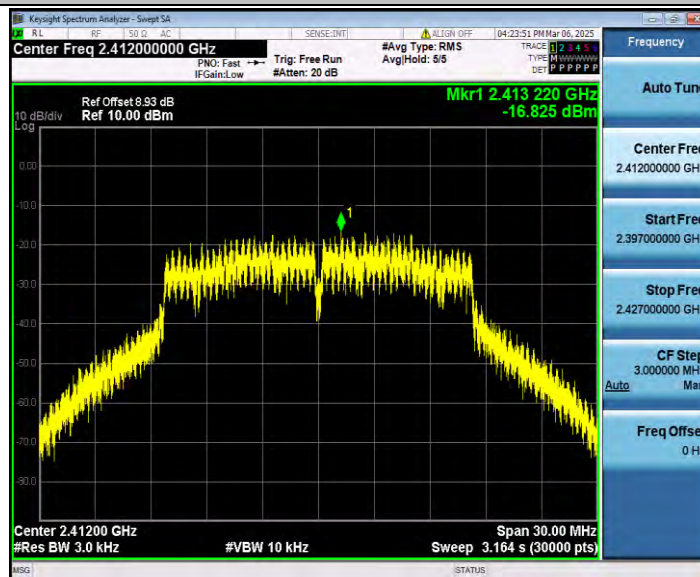
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-14.51	≤8.00	PASS
		2437	-13.02	≤8.00	PASS
		2462	-13.18	≤8.00	PASS
11G	Ant1	2412	-16.83	≤8.00	PASS
		2437	-14.96	≤8.00	PASS
		2462	-15.54	≤8.00	PASS
11N20SISO	Ant1	2412	-15.34	≤8.00	PASS
		2437	-14.44	≤8.00	PASS
		2462	-14.82	≤8.00	PASS
11N40SISO	Ant1	2422	-18.91	≤8.00	PASS
		2437	-18.83	≤8.00	PASS
		2452	-17.98	≤8.00	PASS

Test Graphs

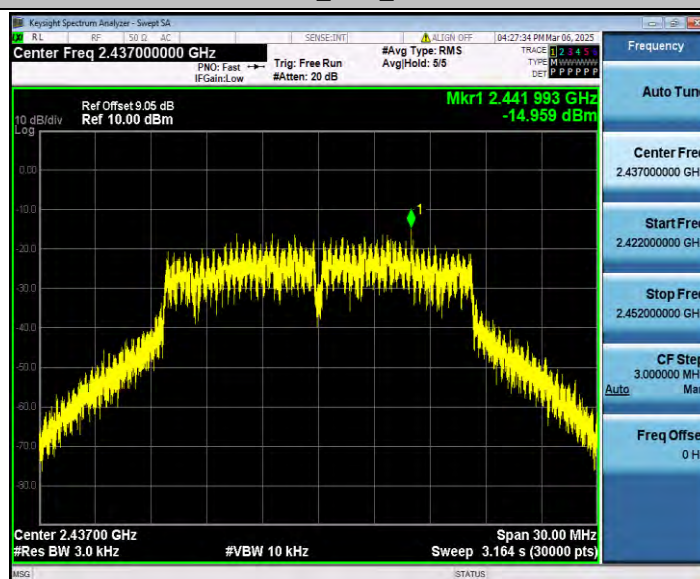




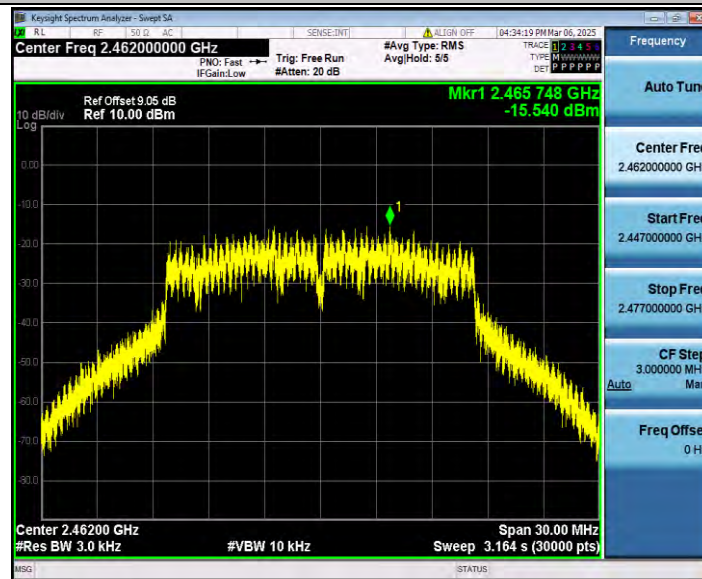
11G_Ant1_2412



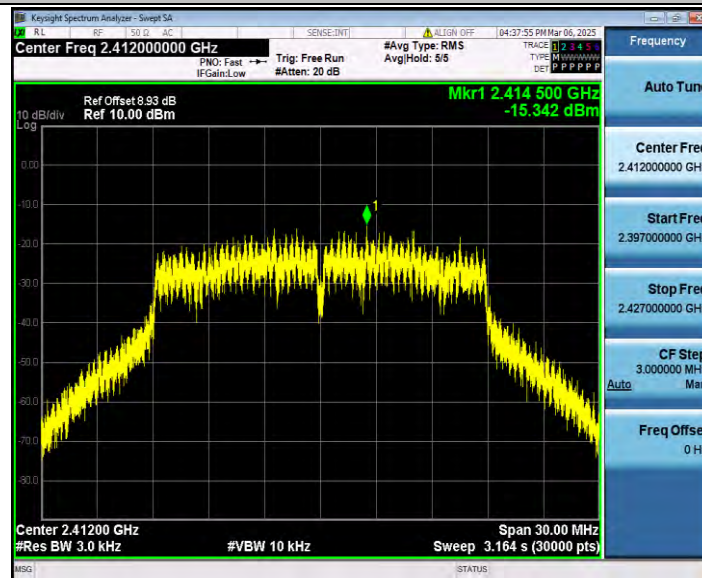
11G_Ant1_2437



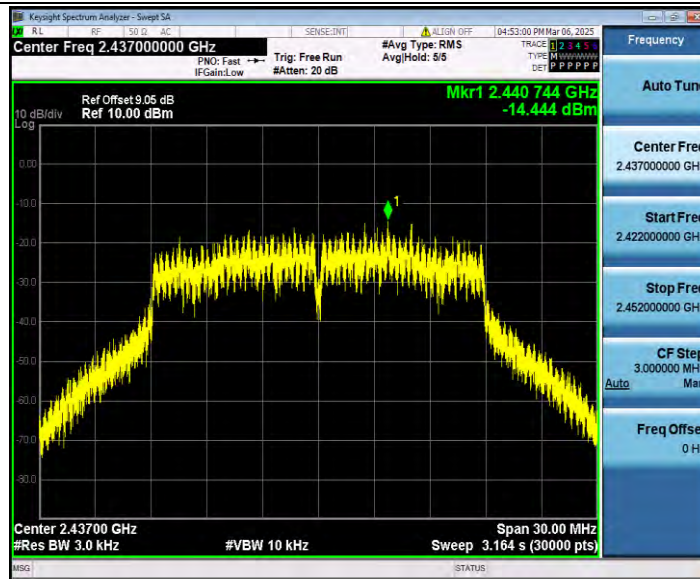
11G_Ant1_2462



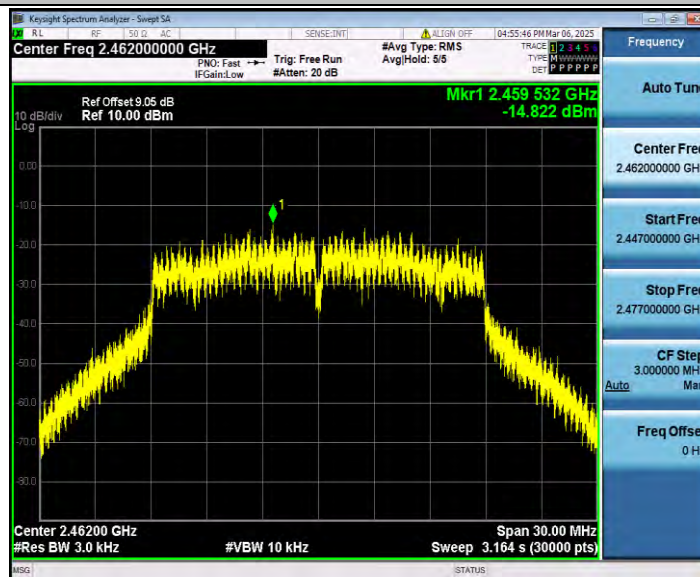
11N20SISO_Ant1_2412



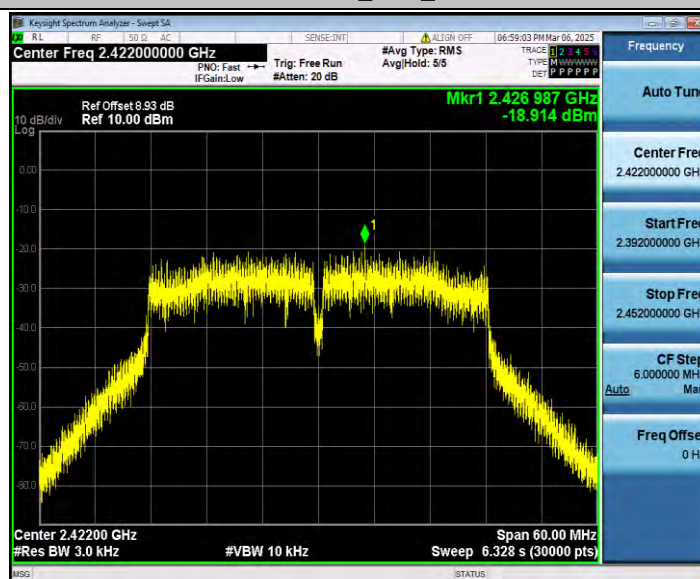
11N20SISO_Ant1_2437



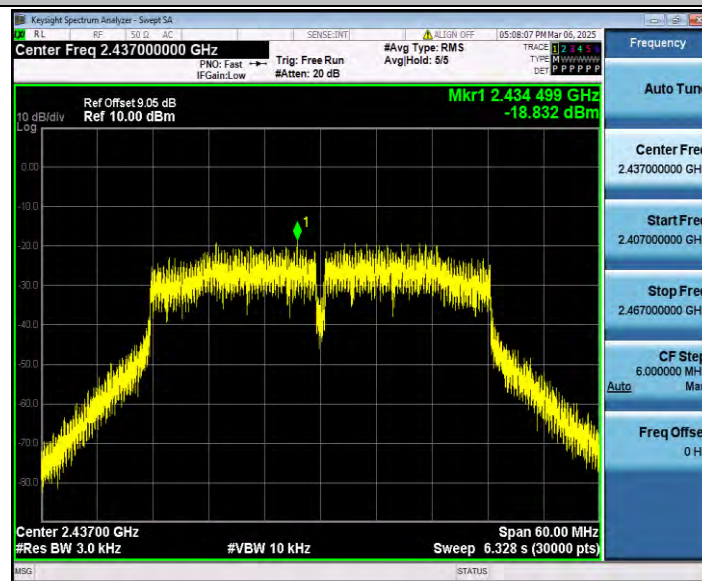
11N20SISO_Ant1_2462



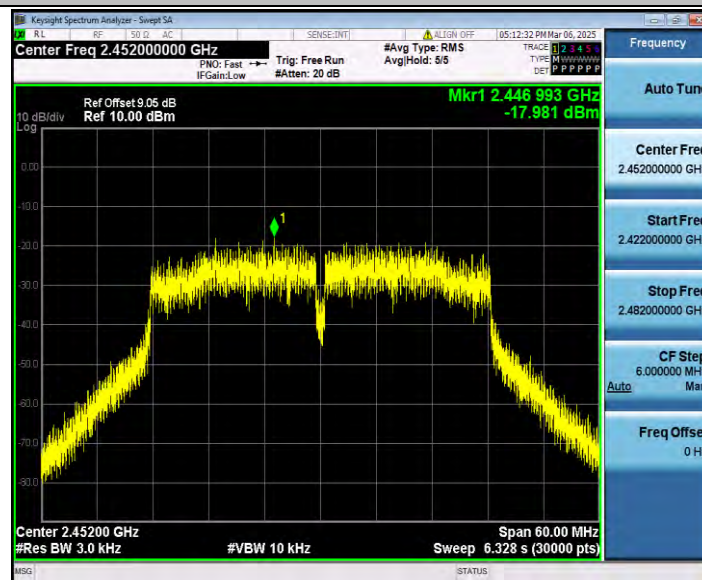
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



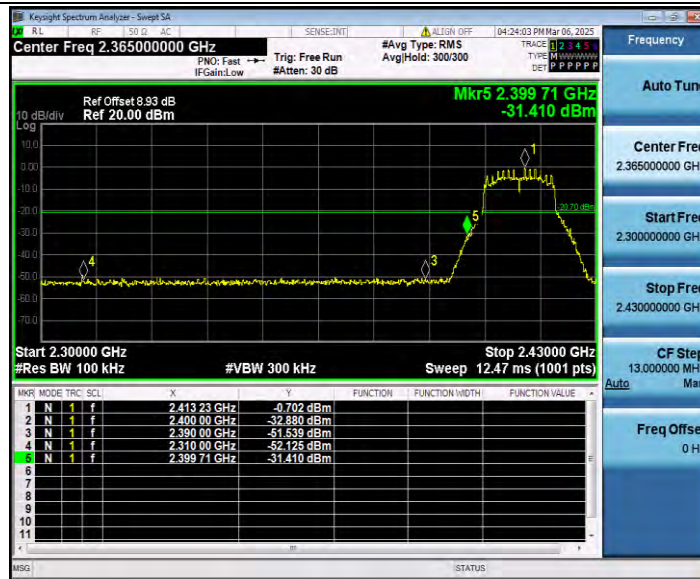
Appendix A.5: Band edge measurements

Test Result

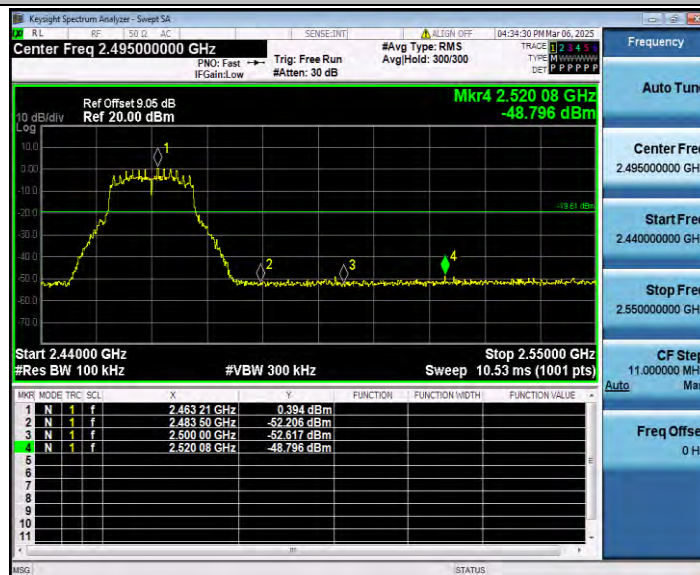
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-0.48	-49.05	≤-20.48	PASS
		High	2462	0.47	-49.26	≤-19.53	PASS
11G	Ant1	Low	2412	-0.70	-31.41	≤-20.7	PASS
		High	2462	0.39	-48.8	≤-19.61	PASS
11N20SISO	Ant1	Low	2412	-0.76	-31.47	≤-20.76	PASS
		High	2462	0.31	-49.36	≤-19.69	PASS
11N40SISO	Ant1	Low	2422	-4.79	-31.65	≤-24.79	PASS
		High	2452	-3.19	-47.19	≤-23.19	PASS

Test Graphs

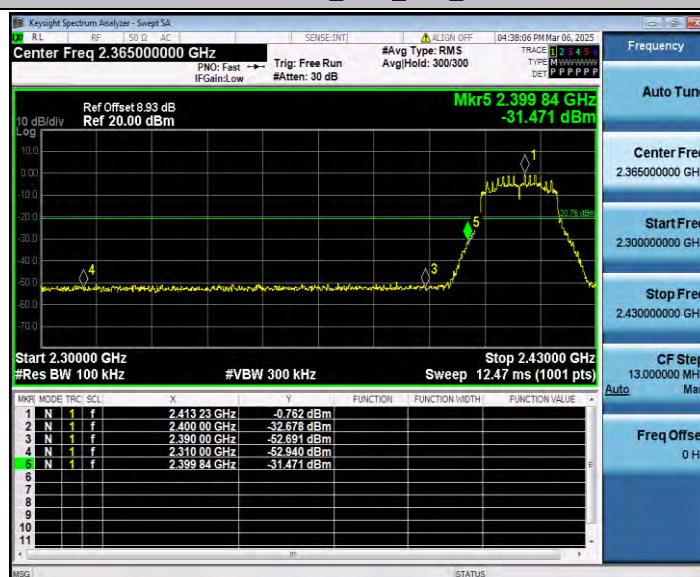




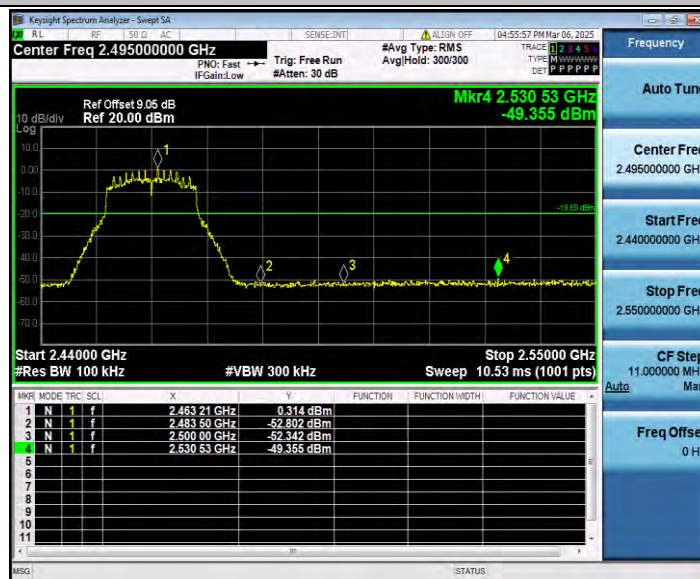
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



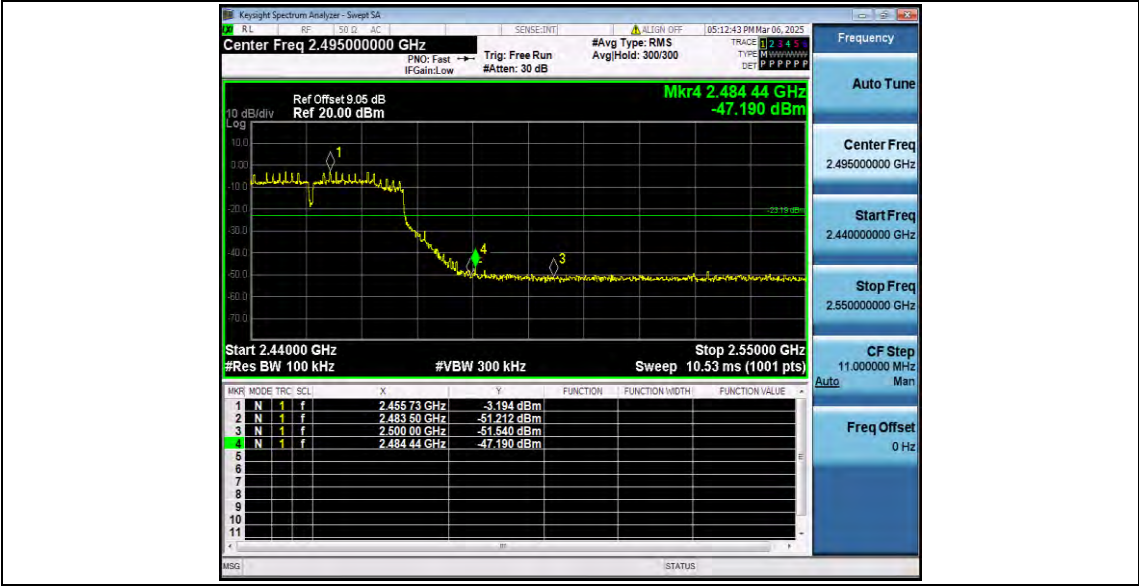
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

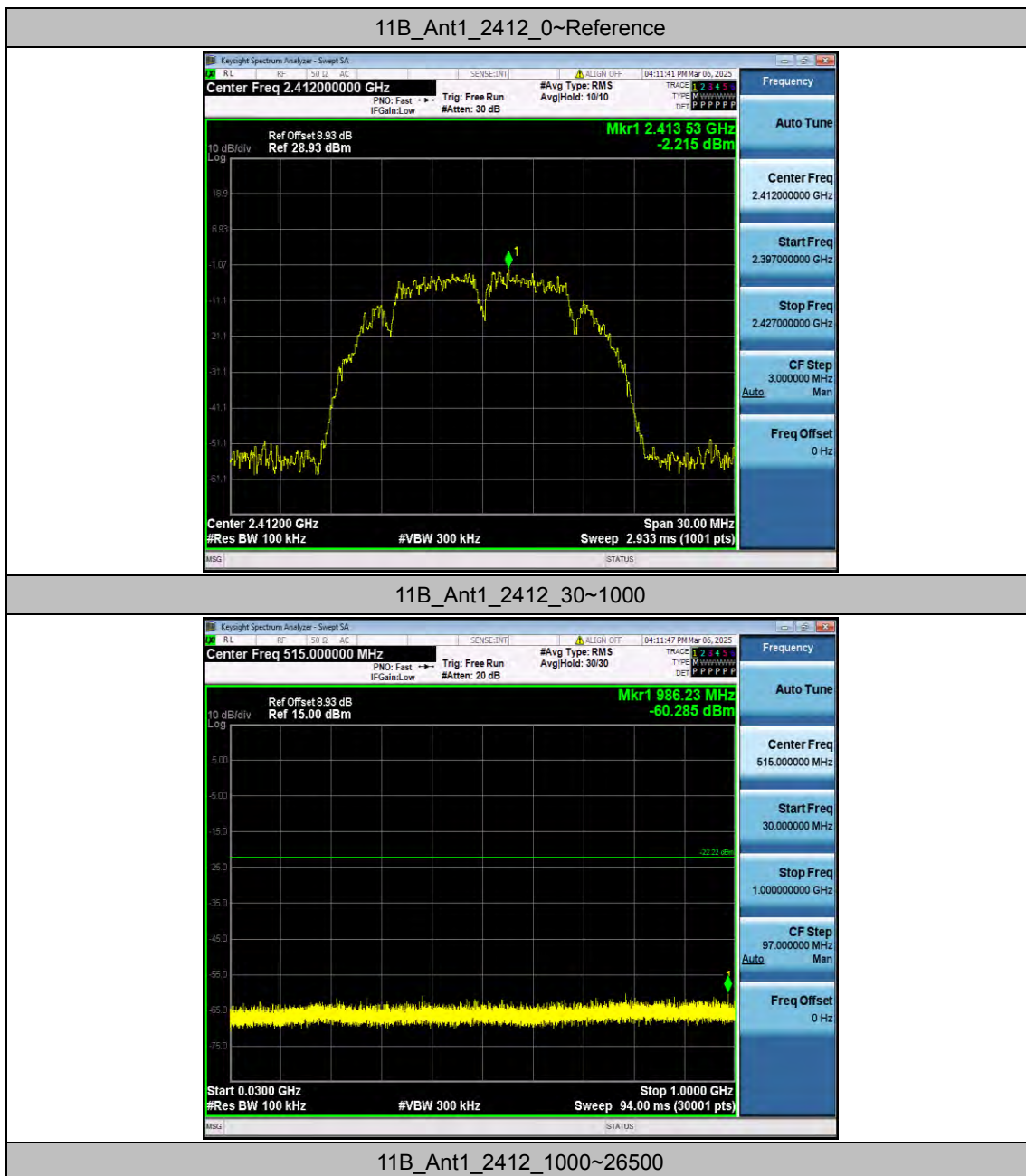


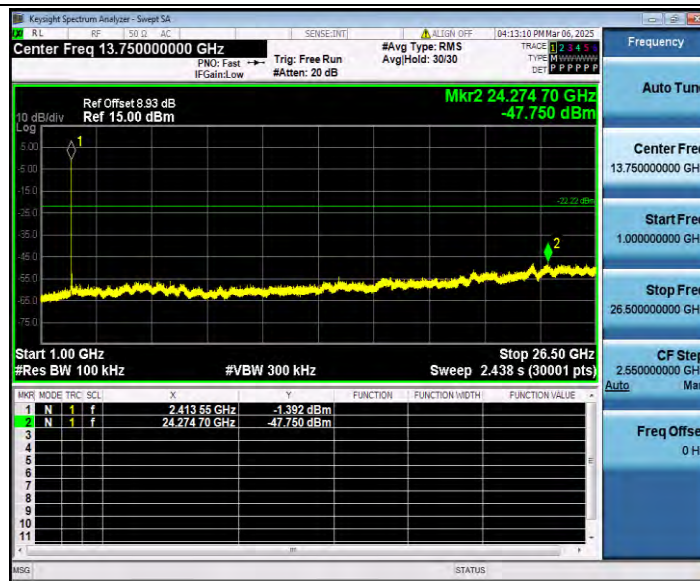
Appendix A.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-2.22	-2.22	---	PASS
			30~1000	-2.22	-60.29	≤ -22.22	PASS
			1000~26500	-2.22	-47.75	≤ -22.22	PASS
		2437	Reference	-0.35	-0.35	---	PASS
			30~1000	-0.35	-60.47	≤ -20.35	PASS
			1000~26500	-0.35	-47.75	≤ -20.35	PASS
		2462	Reference	-0.71	-0.71	---	PASS
			30~1000	-0.71	-59.89	≤ -20.71	PASS
			1000~26500	-0.71	-47.59	≤ -20.71	PASS
11G	Ant1	2412	Reference	-1.03	-1.03	---	PASS
			30~1000	-1.03	-60	≤ -21.03	PASS
			1000~26500	-1.03	-47.84	≤ -21.03	PASS
		2437	Reference	-0.31	-0.31	---	PASS
			30~1000	-0.31	-60.7	≤ -20.31	PASS
			1000~26500	-0.31	-47.85	≤ -20.31	PASS
		2462	Reference	0.40	0.40	---	PASS
			30~1000	0.40	-60.74	≤ -19.6	PASS
			1000~26500	0.40	-47.06	≤ -19.6	PASS
11N20SISO	Ant1	2412	Reference	-0.78	-0.78	---	PASS
			30~1000	-0.78	-56.58	≤ -20.78	PASS
			1000~26500	-0.78	-48.21	≤ -20.78	PASS
		2437	Reference	-0.41	-0.41	---	PASS
			30~1000	-0.41	-60.56	≤ -20.41	PASS
			1000~26500	-0.41	-47.63	≤ -20.41	PASS
		2462	Reference	-1.13	-1.13	---	PASS
			30~1000	-1.13	-61.07	≤ -21.13	PASS
			1000~26500	-1.13	-47.45	≤ -21.13	PASS
11N40SISO	Ant1	2422	Reference	-4.95	-4.95	---	PASS
			30~1000	-4.95	-60.84	≤ -24.95	PASS
			1000~26500	-4.95	-48.28	≤ -24.95	PASS
		2437	Reference	-3.79	-3.79	---	PASS
			30~1000	-3.79	-60.56	≤ -23.79	PASS
			1000~26500	-3.79	-47.63	≤ -23.79	PASS
		2452	Reference	-3.40	-3.40	---	PASS
			30~1000	-3.40	-60.2	≤ -23.4	PASS
			1000~26500	-3.40	-47.85	≤ -23.4	PASS

Test Graphs

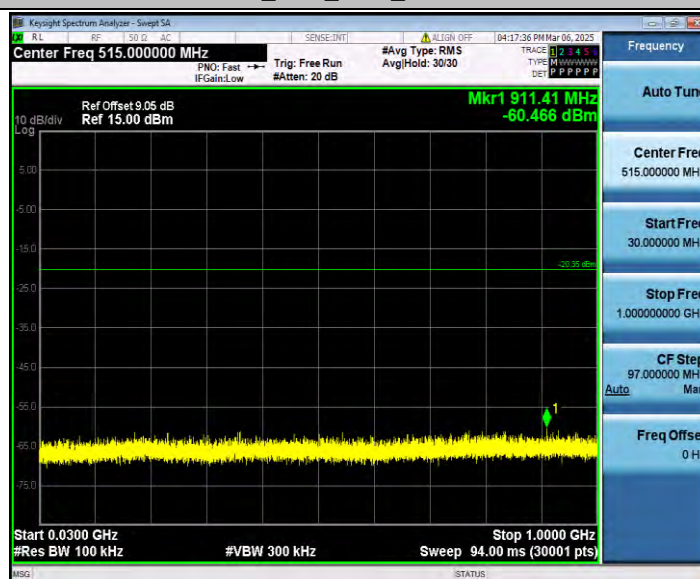




11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



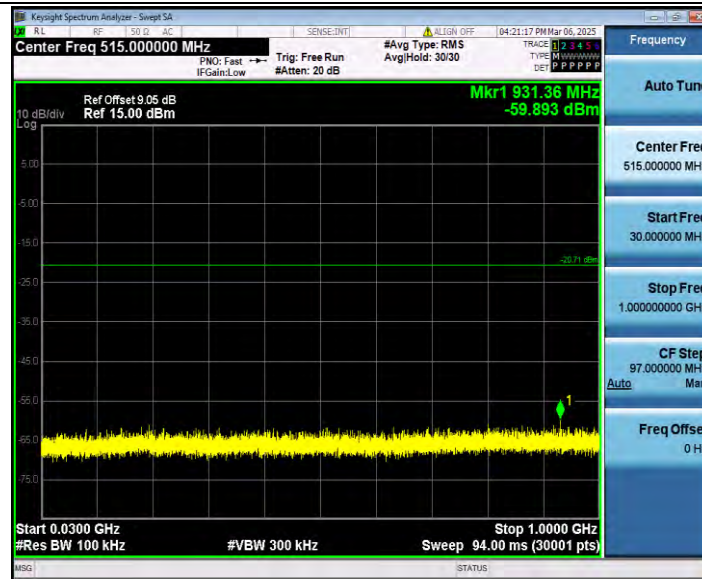
11B_Ant1_2437_1000~26500



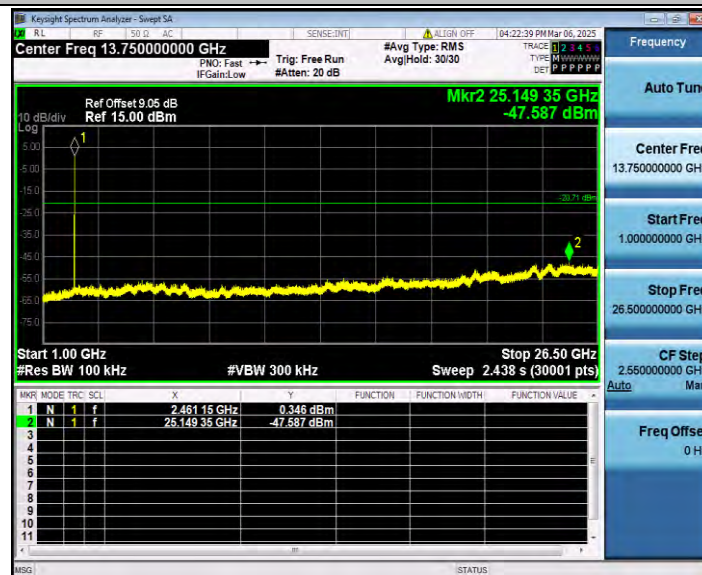
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



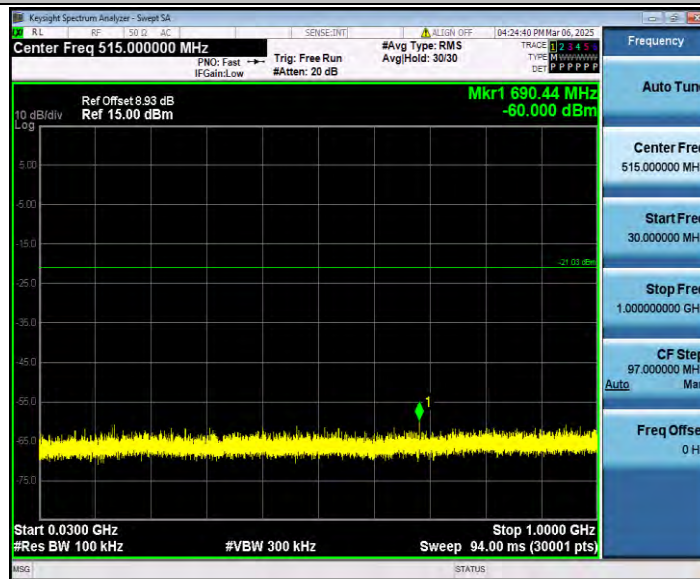
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



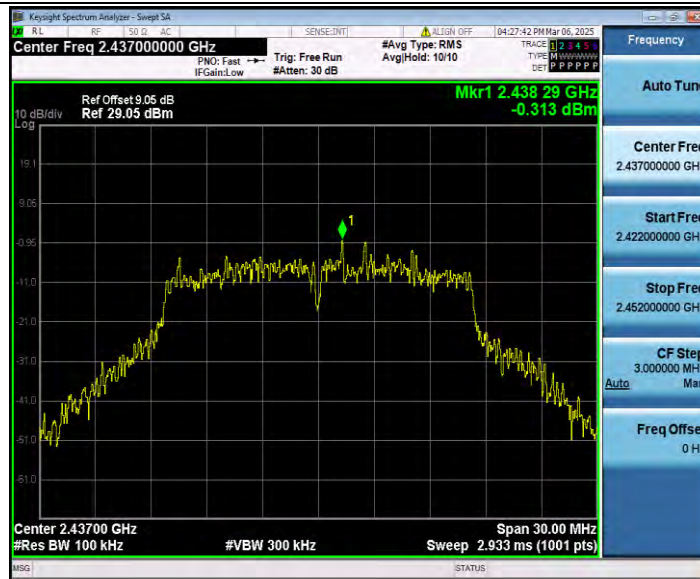
11G_Ant1_2412_30~1000



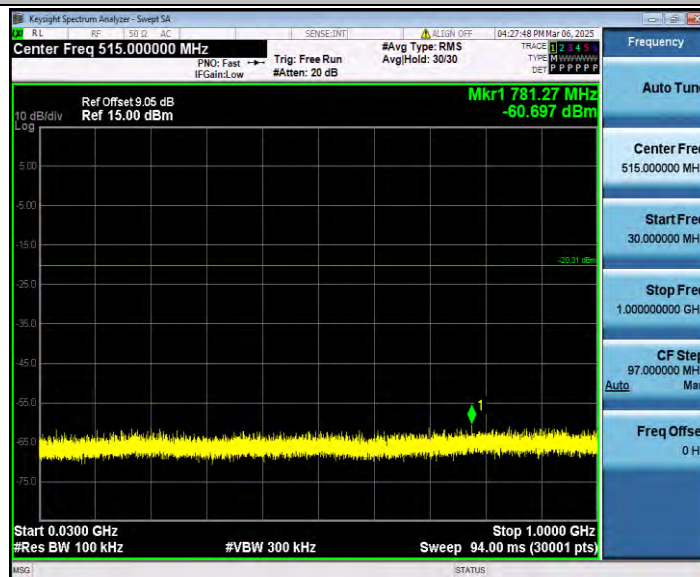
11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



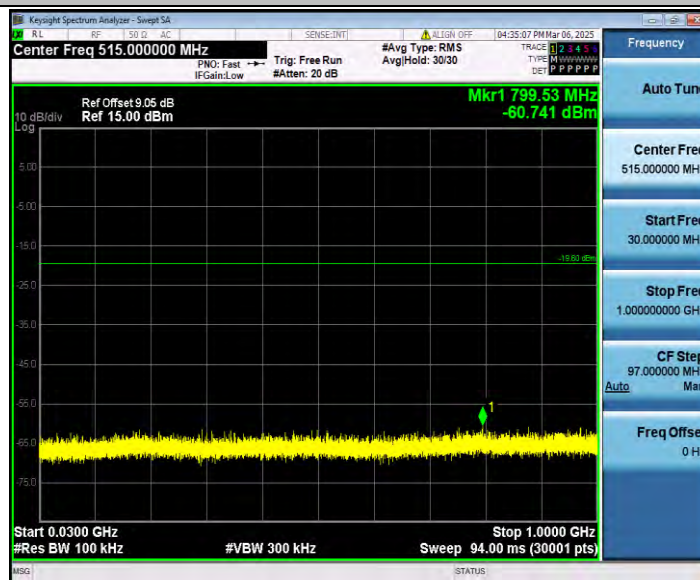
11G_Ant1_2437_1000~26500



11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



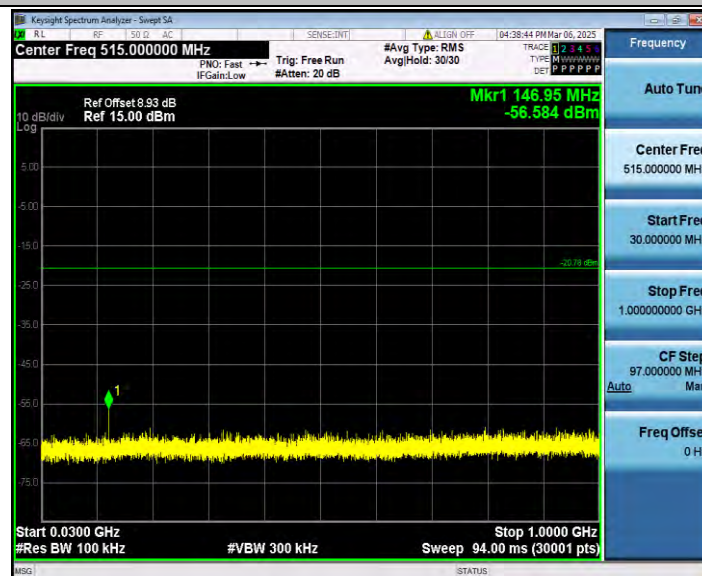
11G_Ant1_2462_1000~26500



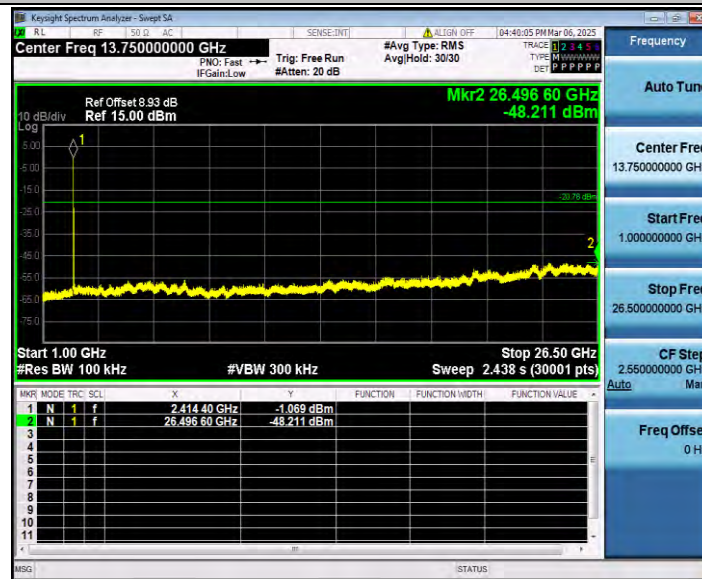
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



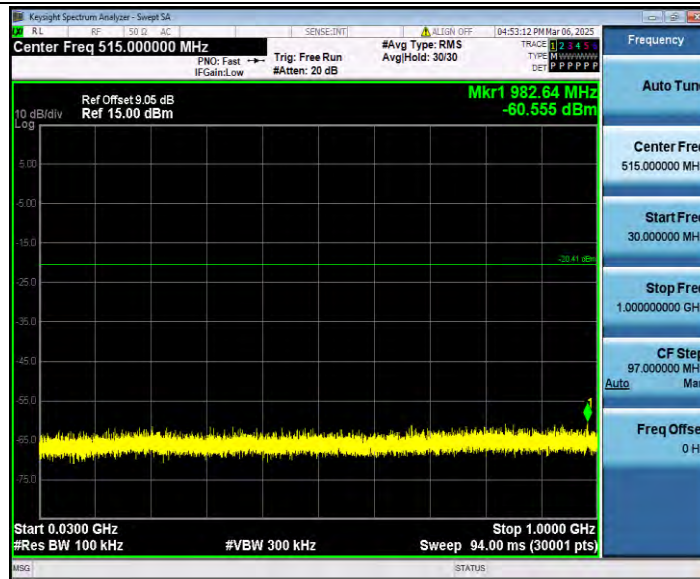
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



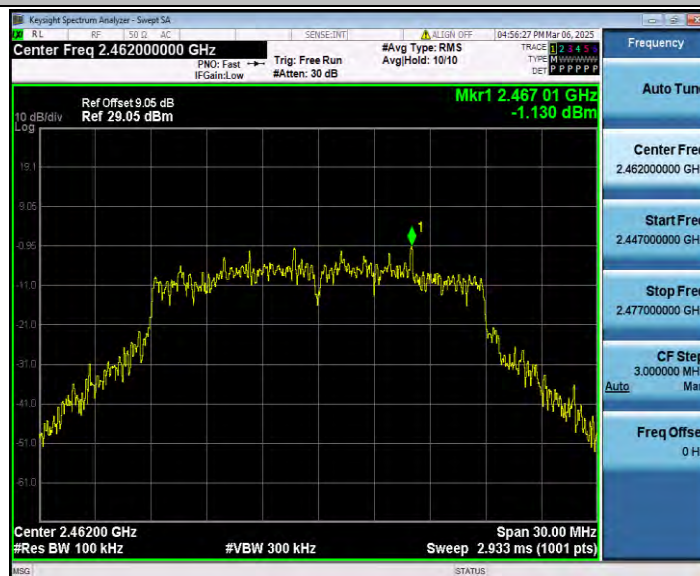
11N20SISO_Ant1_2437_30~1000



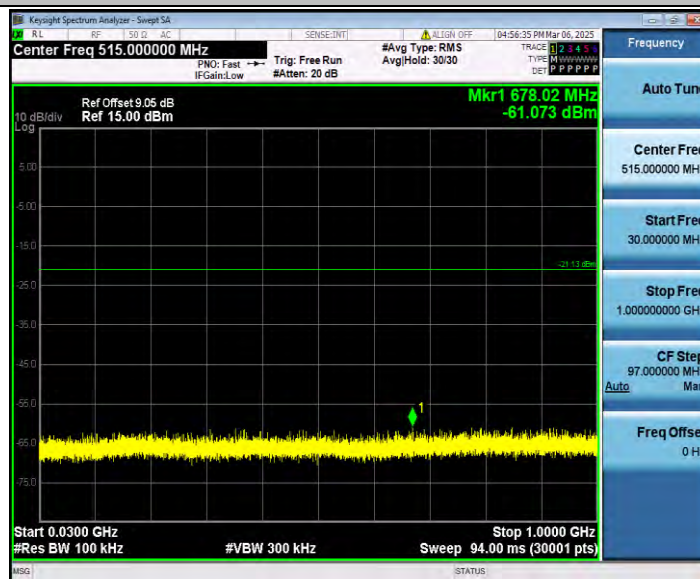
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



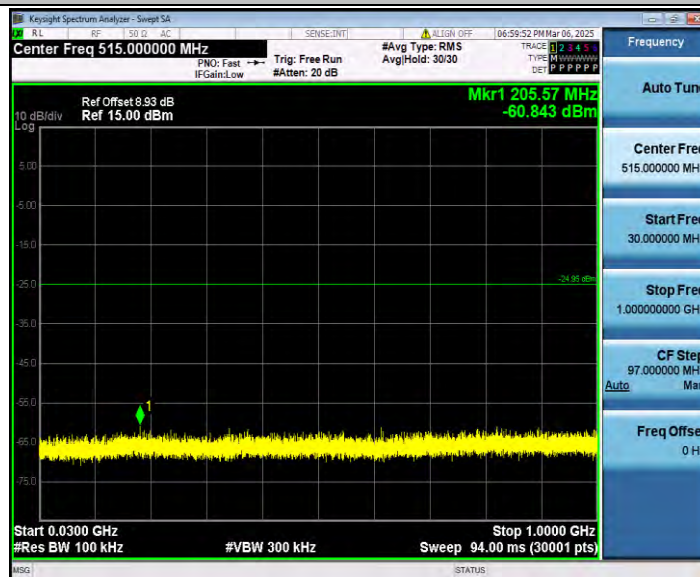
11N20SISO_Ant1_2462_1000~26500



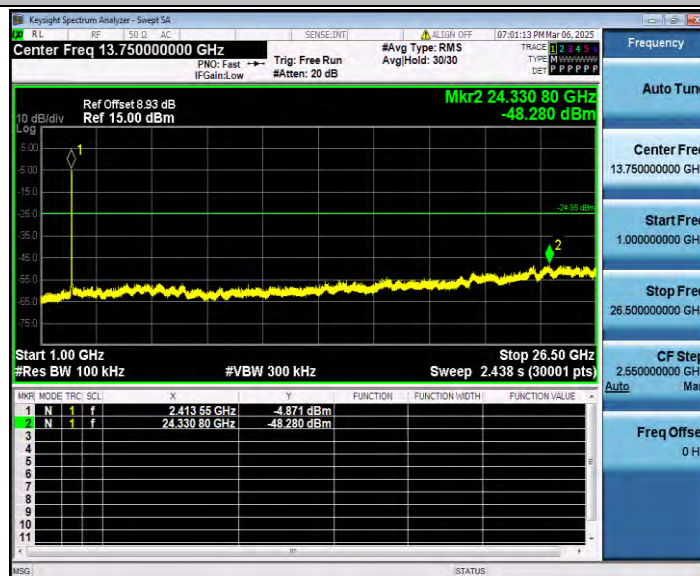
11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000



11N40SISO_Ant1_2422_1000~26500



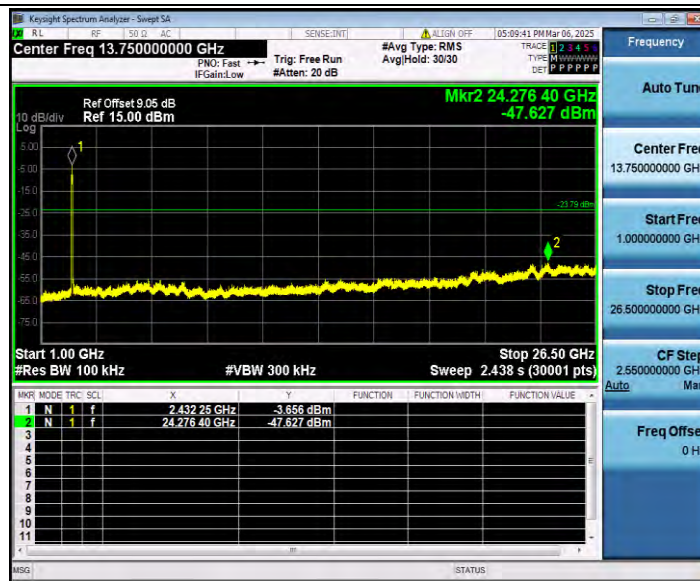
11N40SISO_Ant1_2437_0~Reference



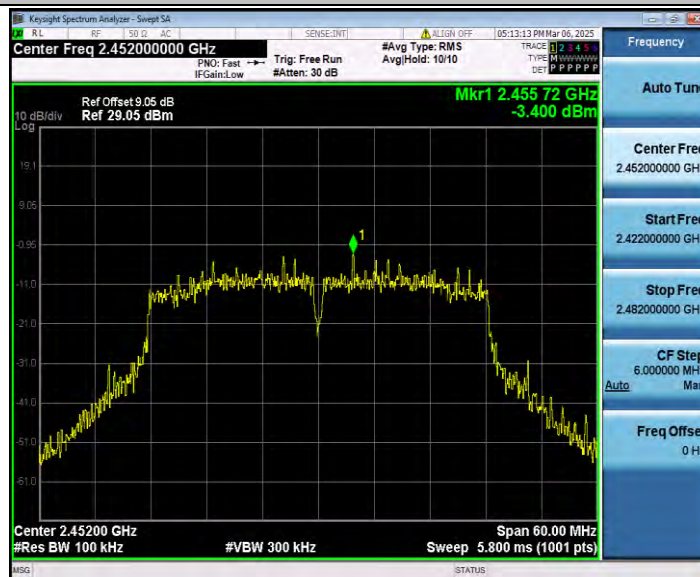
11N40SISO_Ant1_2437_30~1000



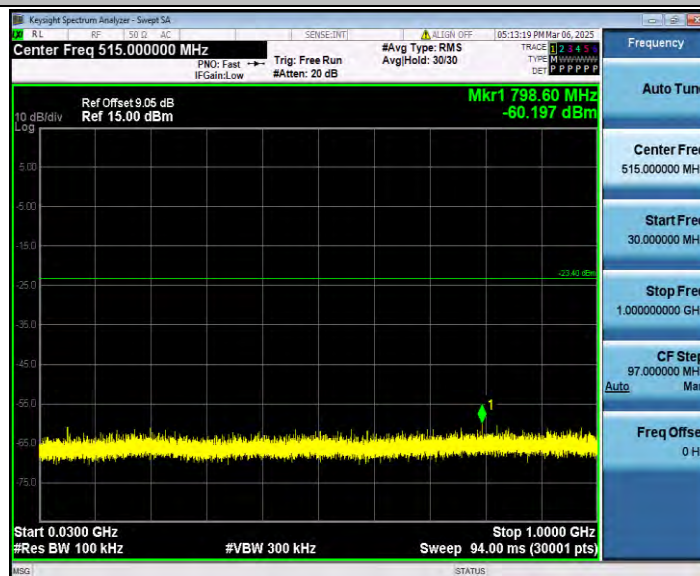
11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000





Appendix A.7: Emissions in Restricted Bands

Test Result

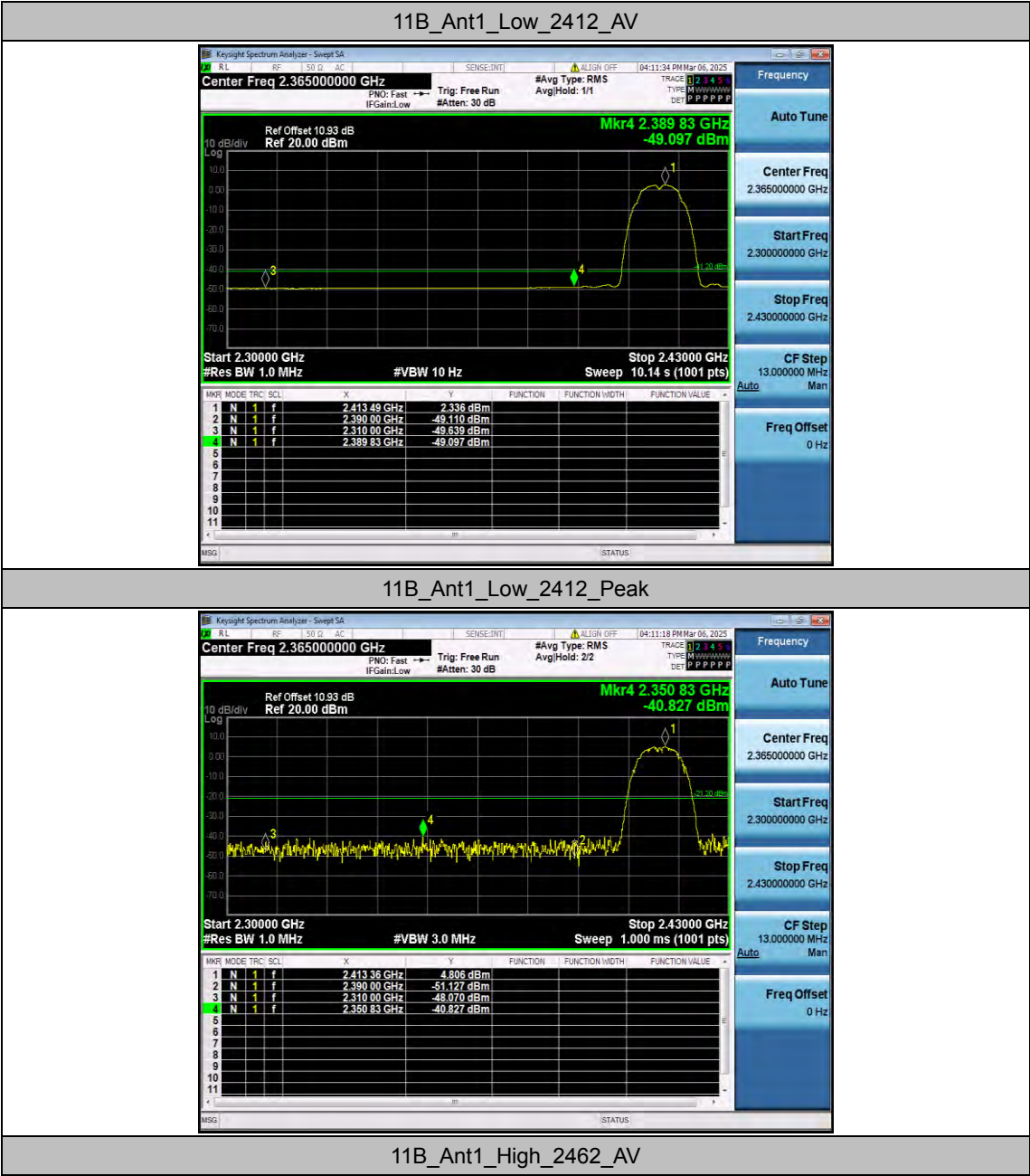
TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.64	≤-41.20	45.56	≤54	PASS
				AV	2389.830	-49.1	≤-41.20	46.10	≤54	PASS
				AV	2390.000	-49.11	≤-41.20	46.09	≤54	PASS
				Peak	2310.000	-48.07	≤-21.20	47.13	≤74	PASS
				Peak	2350.830	-40.83	≤-21.20	54.37	≤74	PASS
				Peak	2390.000	-51.13	≤-21.20	44.07	≤74	PASS
		High	2462	AV	2483.500	-49	≤-41.20	46.20	≤54	PASS
				AV	2499.400	-48.82	≤-41.20	46.38	≤54	PASS
				AV	2500.000	-48.86	≤-41.20	46.34	≤54	PASS
				Peak	2483.500	-45.96	≤-21.20	49.24	≤74	PASS
				Peak	2498.520	-40.94	≤-21.20	54.26	≤74	PASS
				Peak	2500.000	-46.26	≤-21.20	48.94	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.59	≤-41.20	45.61	≤54	PASS
				AV	2389.440	-49.19	≤-41.20	46.01	≤54	PASS
				AV	2390.000	-49.2	≤-41.20	46.00	≤54	PASS
				Peak	2310.000	-48.52	≤-21.20	46.68	≤74	PASS
				Peak	2347.840	-41.03	≤-21.20	54.17	≤74	PASS
				Peak	2390.000	-46.58	≤-21.20	48.62	≤74	PASS
		High	2462	AV	2483.500	-49.07	≤-41.20	46.13	≤54	PASS
				AV	2498.850	-48.83	≤-41.20	46.37	≤54	PASS
				AV	2500.000	-48.88	≤-41.20	46.32	≤54	PASS
				Peak	2483.500	-47.02	≤-21.20	48.18	≤74	PASS
				Peak	2499.510	-40.29	≤-21.20	54.91	≤74	PASS
				Peak	2500.000	-41.94	≤-21.20	53.26	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.64	≤-41.20	45.56	≤54	PASS
				AV	2389.960	-49.15	≤-41.20	46.05	≤54	PASS
				AV	2390.000	-49.16	≤-41.20	46.04	≤54	PASS
				Peak	2310.000	-45.68	≤-21.20	49.52	≤74	PASS
				Peak	2364.480	-40.34	≤-21.20	54.86	≤74	PASS
				Peak	2390.000	-42.68	≤-21.20	52.52	≤74	PASS
		High	2462	AV	2483.500	-49.05	≤-41.20	46.15	≤54	PASS
				AV	2498.300	-48.87	≤-41.20	46.33	≤54	PASS
				AV	2500.000	-48.89	≤-41.20	46.31	≤54	PASS
				Peak	2483.500	-45.4	≤-21.20	49.80	≤74	PASS
				Peak	2492.470	-40.37	≤-21.20	54.83	≤74	PASS
				Peak	2500.000	-44.59	≤-21.20	50.61	≤74	PASS

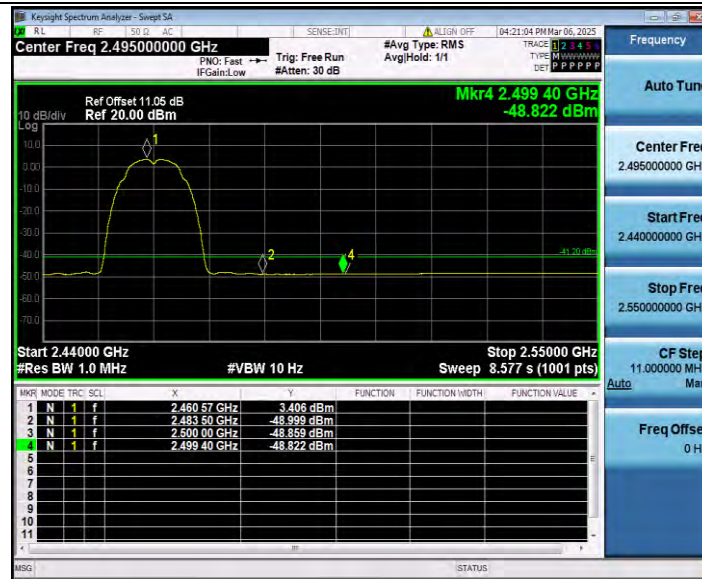
11N40SIS O	Ant1	Low	2422	AV	2310.000	-49.67	≤-41.20	45.53	≤54	PASS
				AV	2389.960	-48.91	≤-41.20	46.29	≤54	PASS
				AV	2390.000	-48.91	≤-41.20	46.29	≤54	PASS
				Peak	2310.000	-46.31	≤-21.20	48.89	≤74	PASS
				Peak	2363.310	-40.34	≤-21.20	54.86	≤74	PASS
				Peak	2390.000	-44.41	≤-21.20	50.79	≤74	PASS
		High	2452	AV	2483.500	-46.98	≤-41.20	48.22	≤54	PASS
				AV	2483.560	-46.92	≤-41.20	48.28	≤54	PASS
				AV	2500.000	-48.5	≤-41.20	46.70	≤54	PASS
				Peak	2483.500	-43.53	≤-21.20	51.67	≤74	PASS
				Peak	2494.450	-40.42	≤-21.20	54.78	≤74	PASS
				Peak	2500.000	-46.42	≤-21.20	48.78	≤74	PASS

Note:

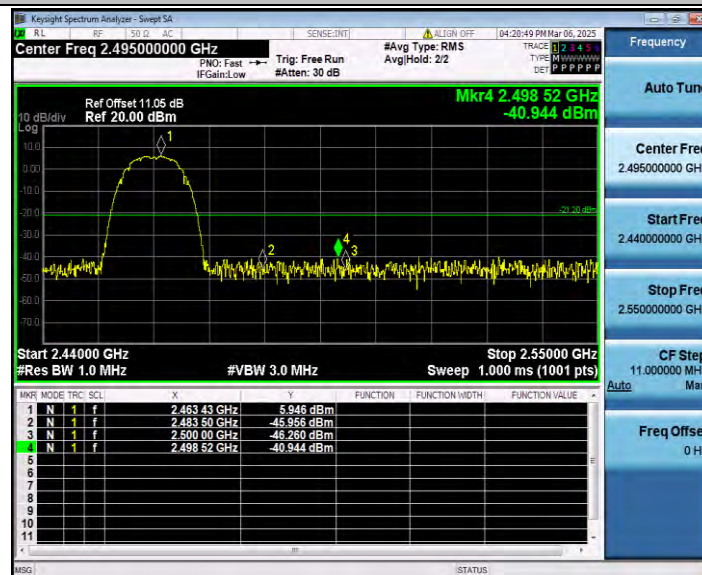
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

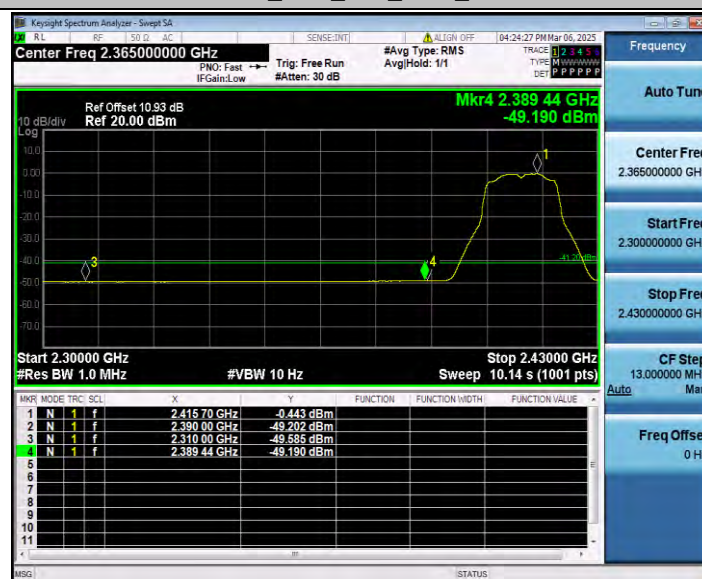




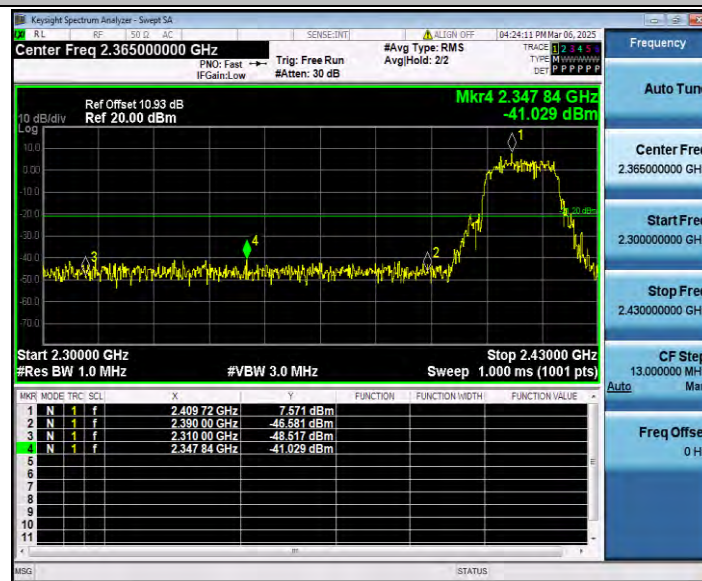
11B_Ant1_High_2462_Peak



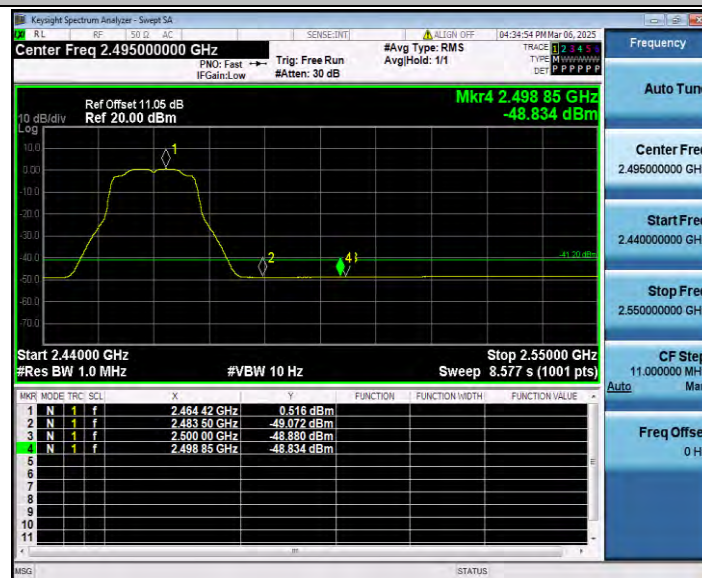
11G_Ant1_Low_2412_AV



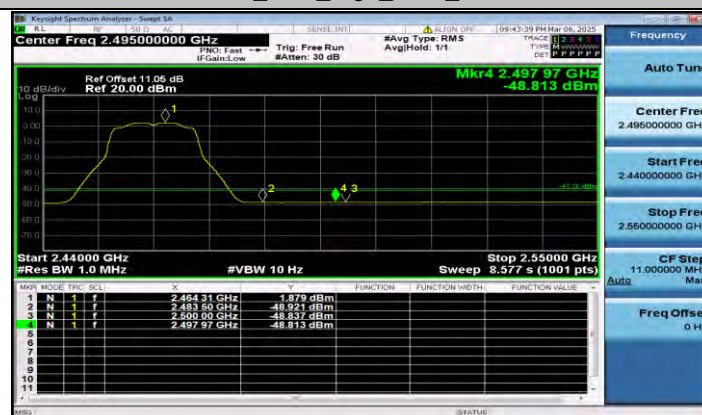
11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV



11G_Ant1_High_2462_Peak



11N20SISO_Ant1_Low_2412_AV



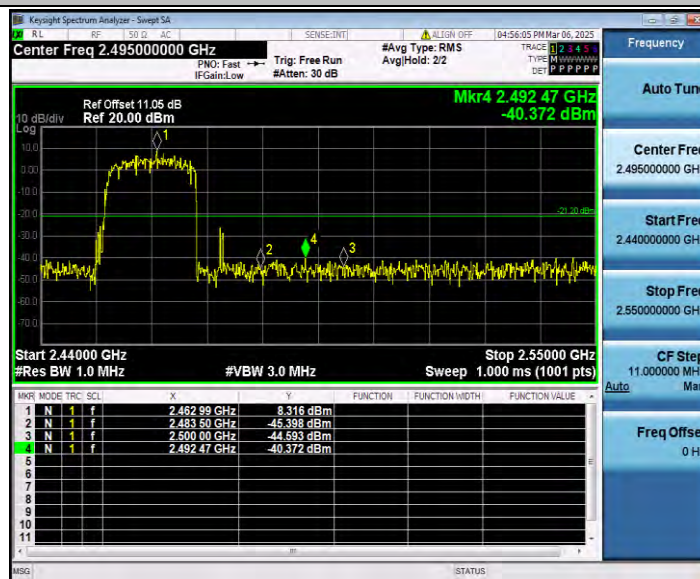
11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



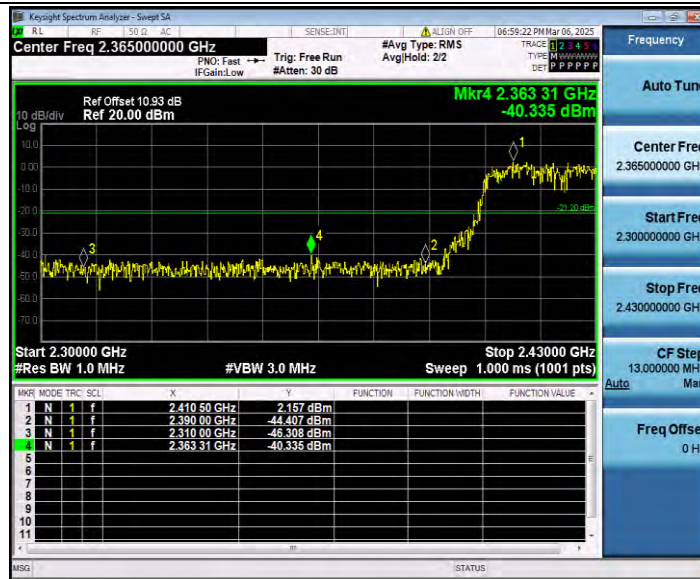
11N20SISO_Ant1_High_2462_Peak



11N40SISO_Ant1_Low_2422_AV



11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV



11N40SISO_Ant1_High_2452_Peak

