

Case No. : <u>GTS20250623010-1-02</u>	
Ambient Condition: <u>22</u> °C, <u>53</u> %RH,	
Test Date: <u>2025.7.5-2025.7.21</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	9.520	2407.480	2417.000	0.5	PASS
		2437	10.080	2431.960	2442.040	0.5	PASS
		2462	9.520	2456.960	2466.480	0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	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	17.280	2403.520	2420.800	0.5	PASS
		2437	17.640	2428.200	2445.840	0.5	PASS
		2462	17.520	2453.280	2470.800	0.5	PASS

Test Graphs

11B_Ant1_2412



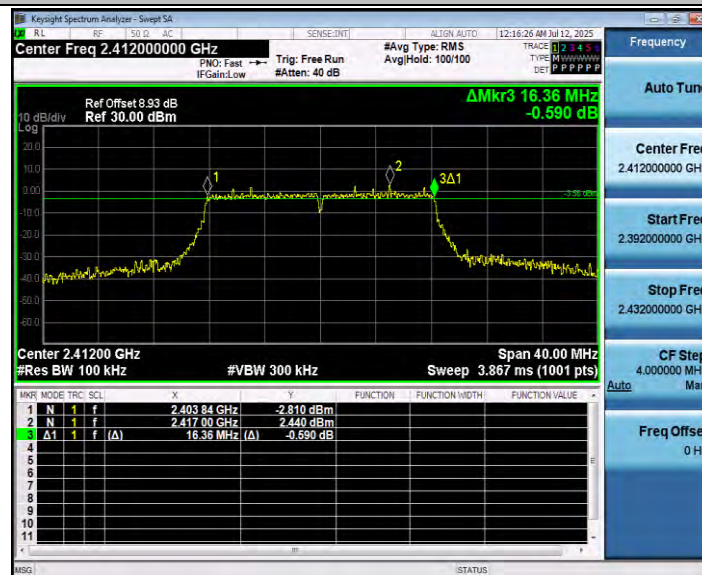
11B_Ant1_2437



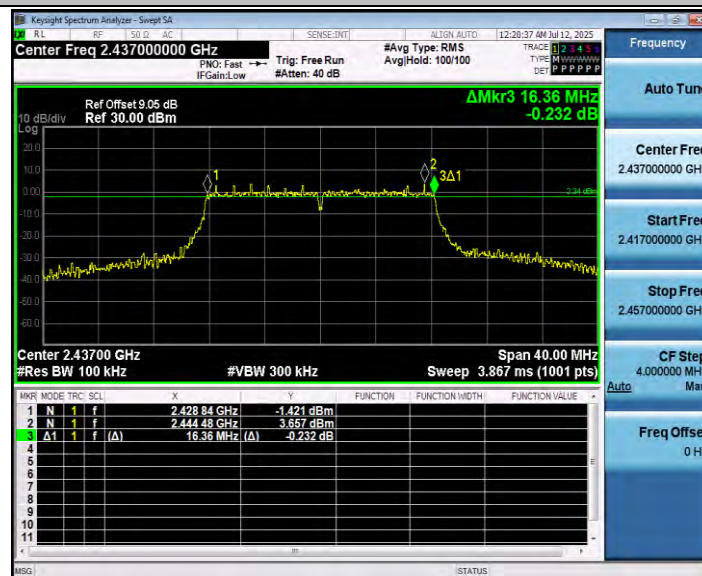
11B_Ant1_2462

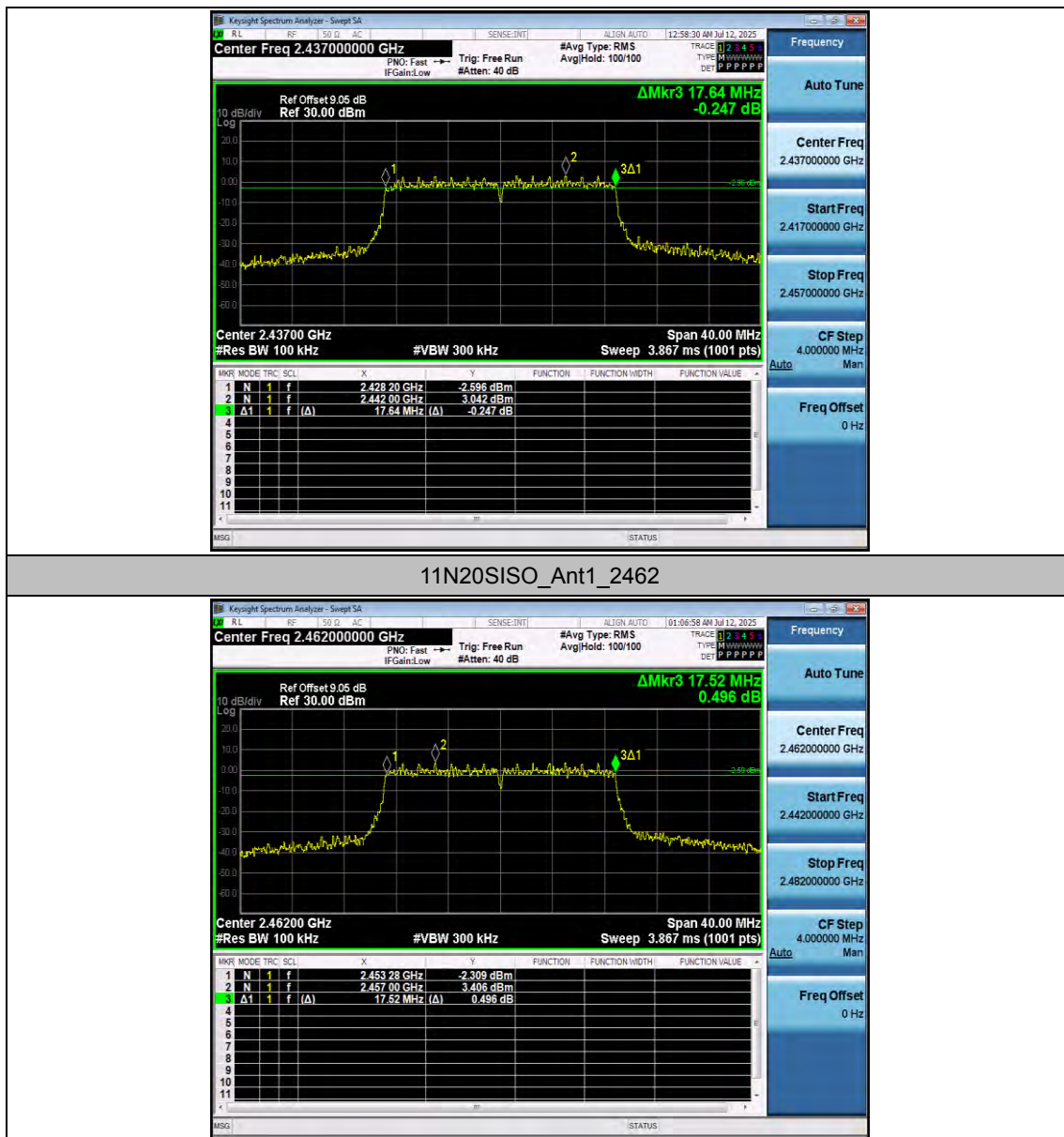


11G_Ant1_2412



11G_Ant1_2437



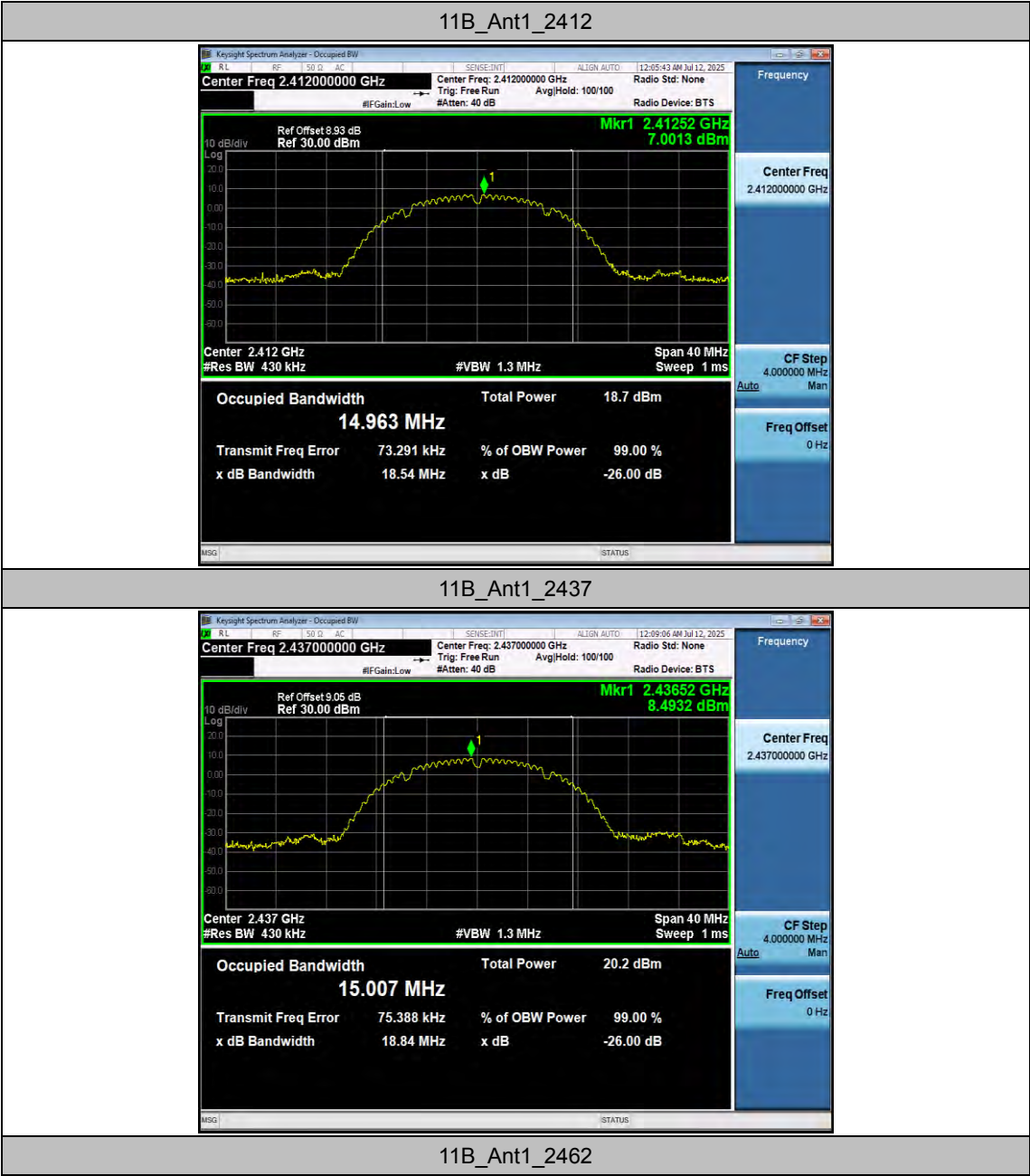


Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.963	2404.5918	2419.5548	---	---
		2437	15.007	2429.5719	2444.5789	---	---
		2462	14.989	2454.5369	2469.5259	---	---
11G	Ant1	2412	16.833	2403.6234	2420.4564	---	---
		2437	16.943	2428.5870	2445.5300	---	---
		2462	16.896	2453.6001	2470.4961	---	---
11N20SISO	Ant1	2412	17.698	2403.1526	2420.8506	---	---
		2437	17.695	2428.1797	2445.8747	---	---
		2462	17.673	2453.1771	2470.8501	---	---

Test Graphs

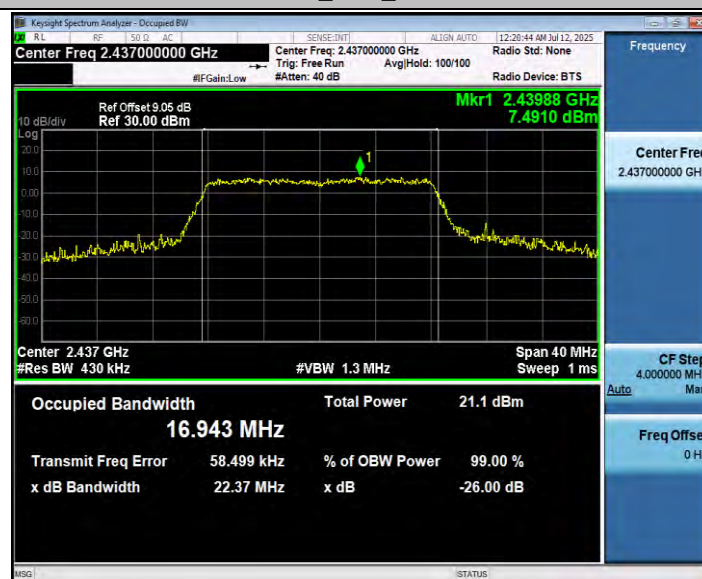




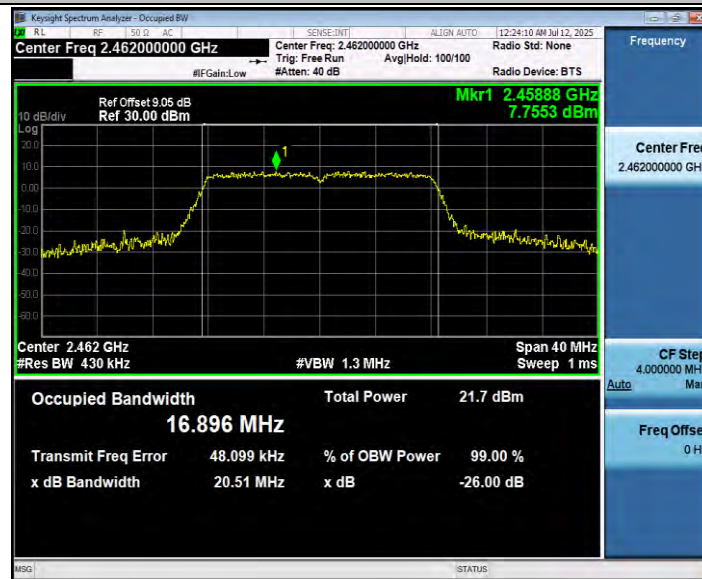
11G_Ant1_2412



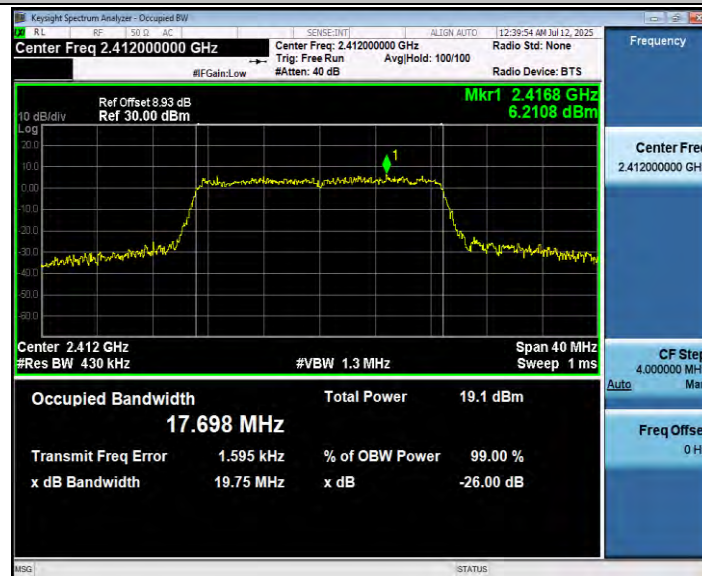
11G_Ant1_2437



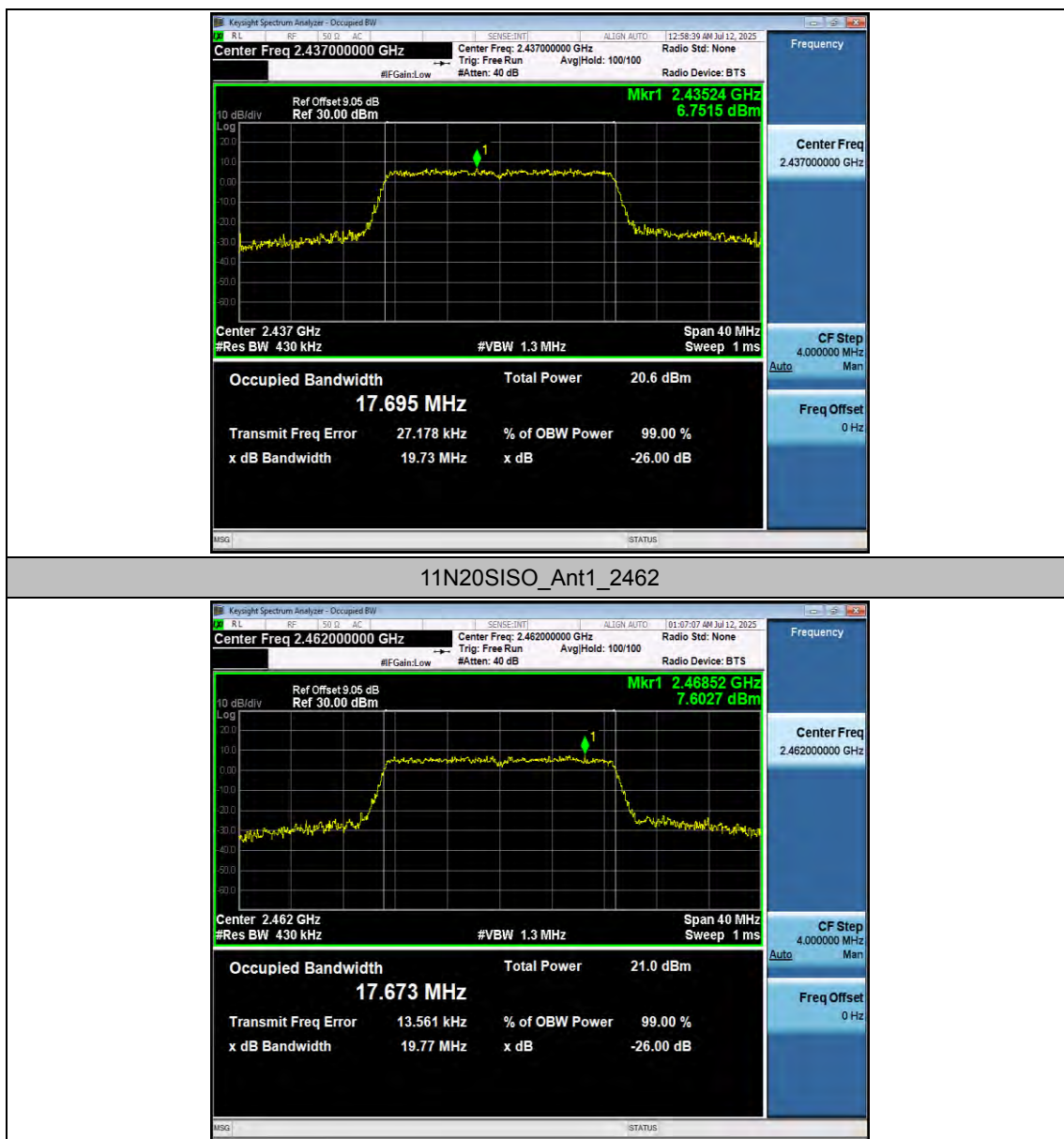
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



Appendix A.3: Maximum conducted output power

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	18.70	≤30.00	PASS
		2437	20.23	≤30.00	PASS
		2462	20.67	≤30.00	PASS
11G	Ant1	2412	20.65	≤30.00	PASS
		2437	22.28	≤30.00	PASS
		2462	22.76	≤30.00	PASS
11N20SISO	Ant1	2412	19.92	≤30.00	PASS
		2437	21.35	≤30.00	PASS
		2462	21.88	≤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	-8.00	≤8.00	PASS
		2437	-6.64	≤8.00	PASS
		2462	-5.63	≤8.00	PASS
11G	Ant1	2412	-12.00	≤8.00	PASS
		2437	-10.46	≤8.00	PASS
		2462	-9.56	≤8.00	PASS
11N20SISO	Ant1	2412	-12.80	≤8.00	PASS
		2437	-12.27	≤8.00	PASS
		2462	-11.12	≤8.00	PASS

Test Graphs

11B_Ant1_2412



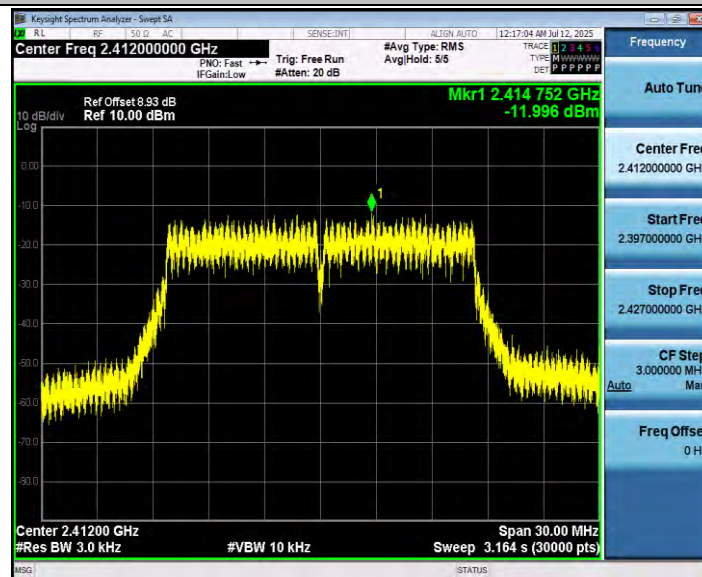
11B_Ant1_2437



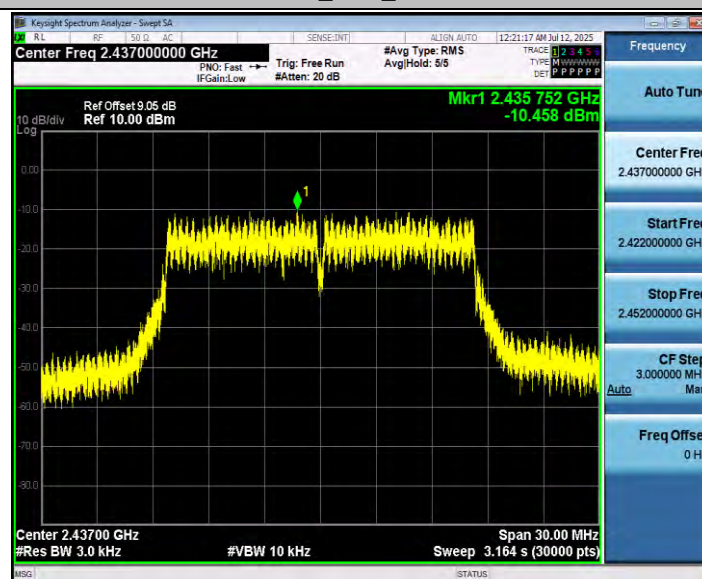
11B_Ant1_2462



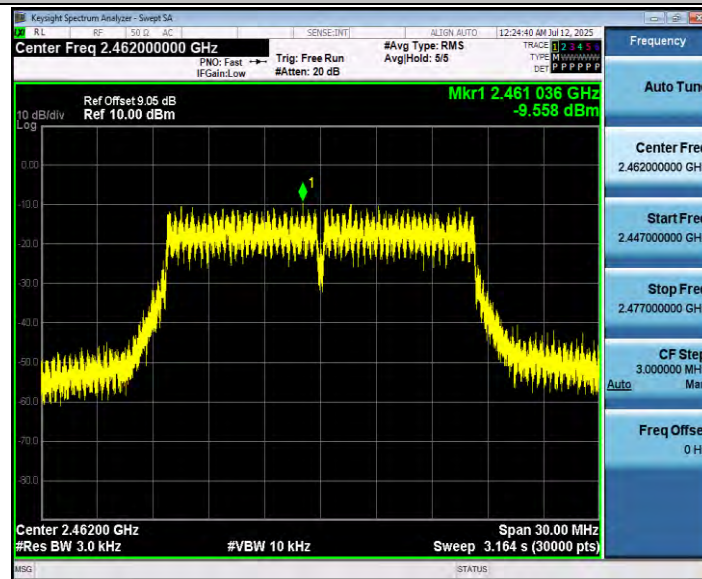
11G_Ant1_2412



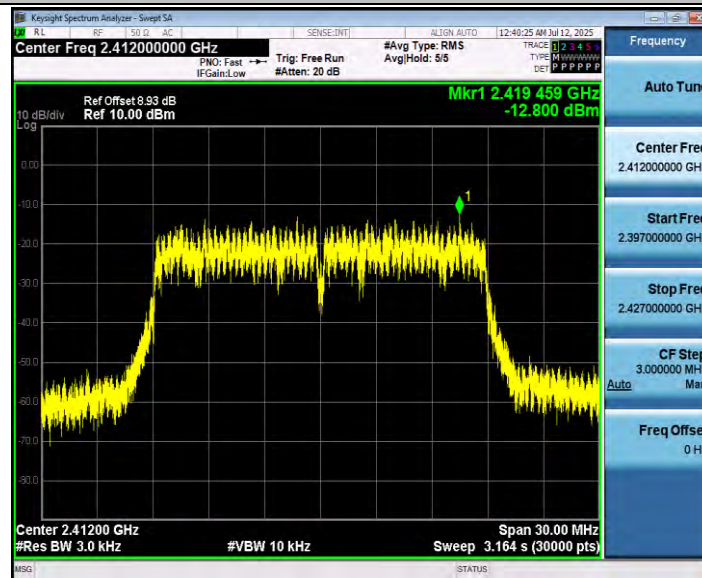
11G_Ant1_2437



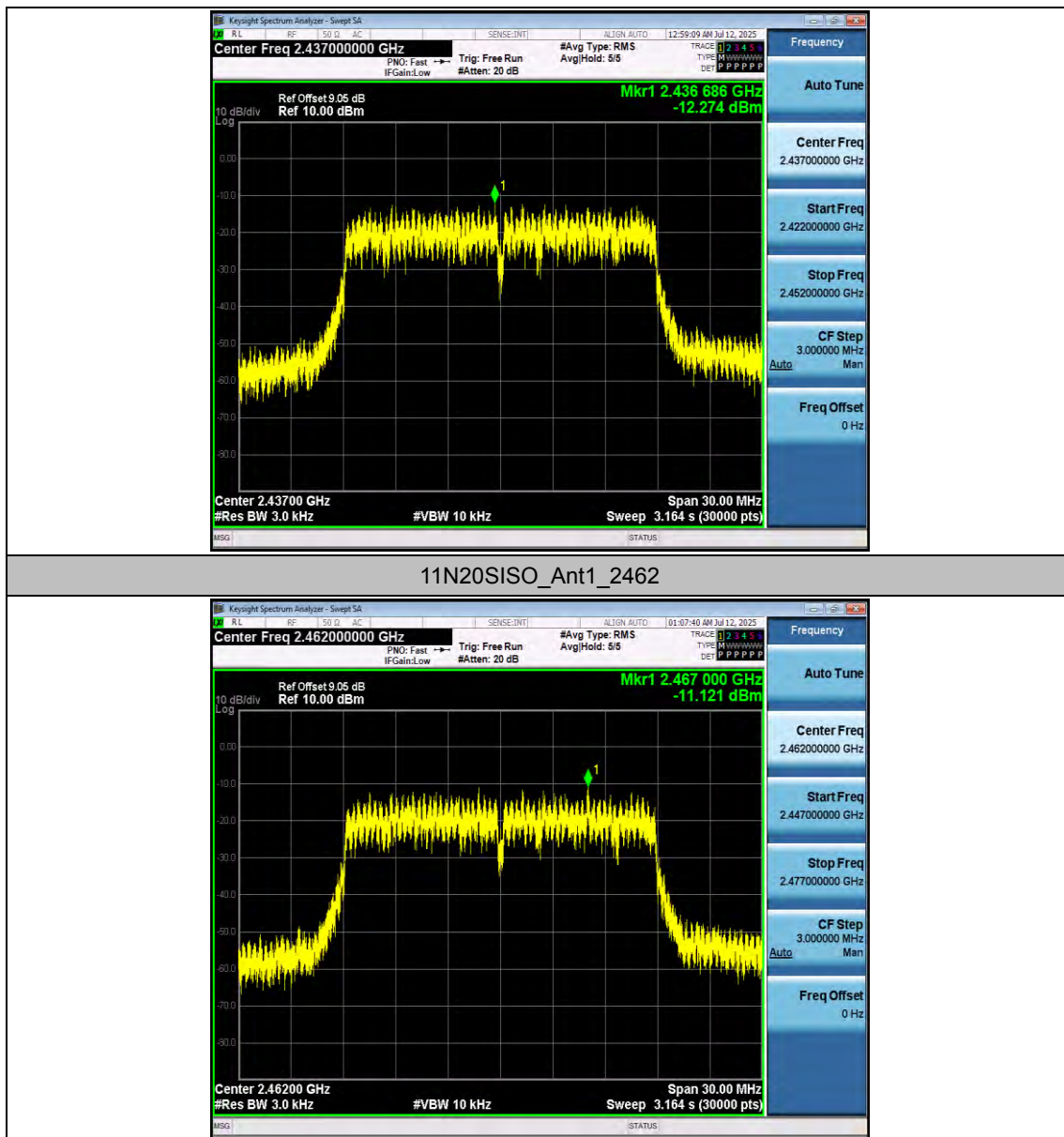
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

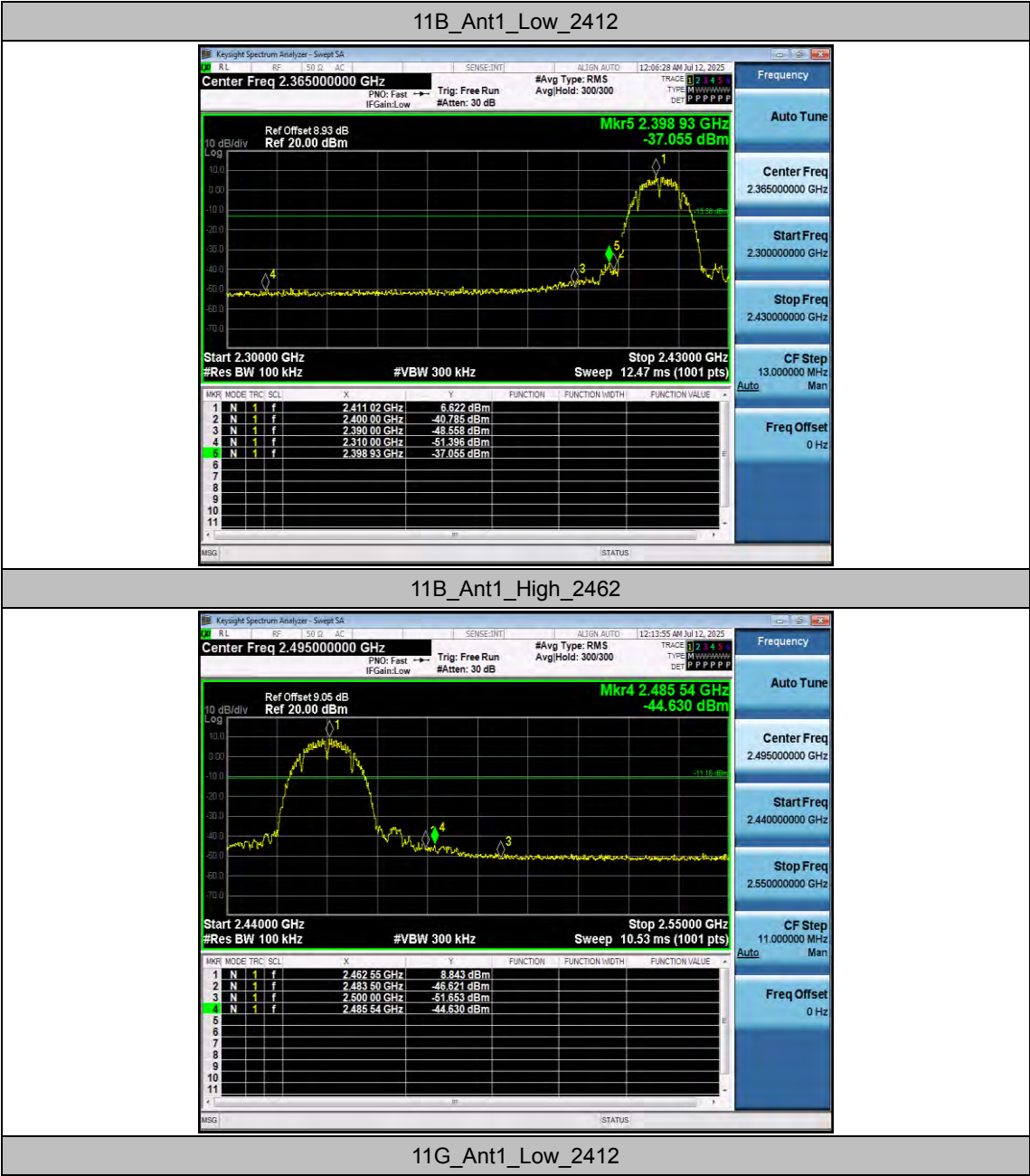


Appendix A.5: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.62	-37.06	≤ -13.38	PASS
		High	2462	8.84	-44.63	≤ -11.16	PASS
11G	Ant1	Low	2412	2.29	-32.58	≤ -17.71	PASS
		High	2462	4.51	-36.89	≤ -15.5	PASS
11N20SISO	Ant1	Low	2412	1.54	-34.72	≤ -18.46	PASS
		High	2462	3.53	-39.86	≤ -16.47	PASS

Test Graphs



11B_Ant1_High_2462

Frequency

Auto Tune

Center Freq
2.495000000 GHzStart Freq
2.440000000 GHzStop Freq
2.550000000 GHzCF Step
11.000000 MHz
AutoFreq Offset
0 Hz

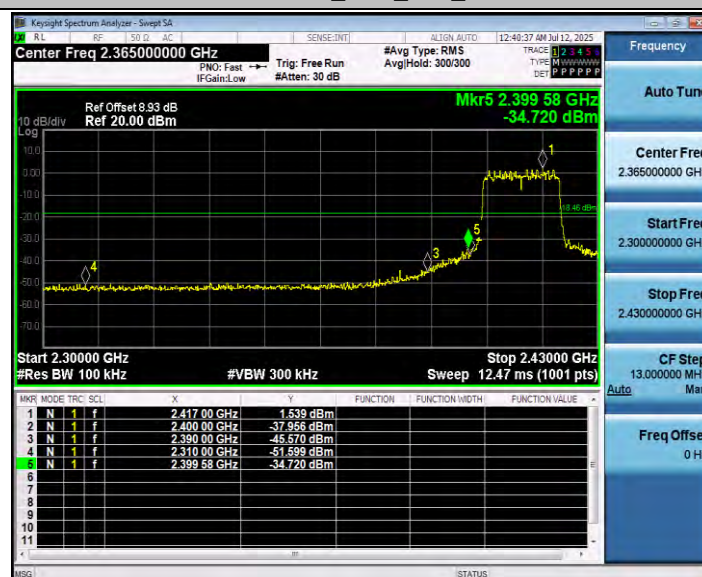
11G_Ant1_Low_2412

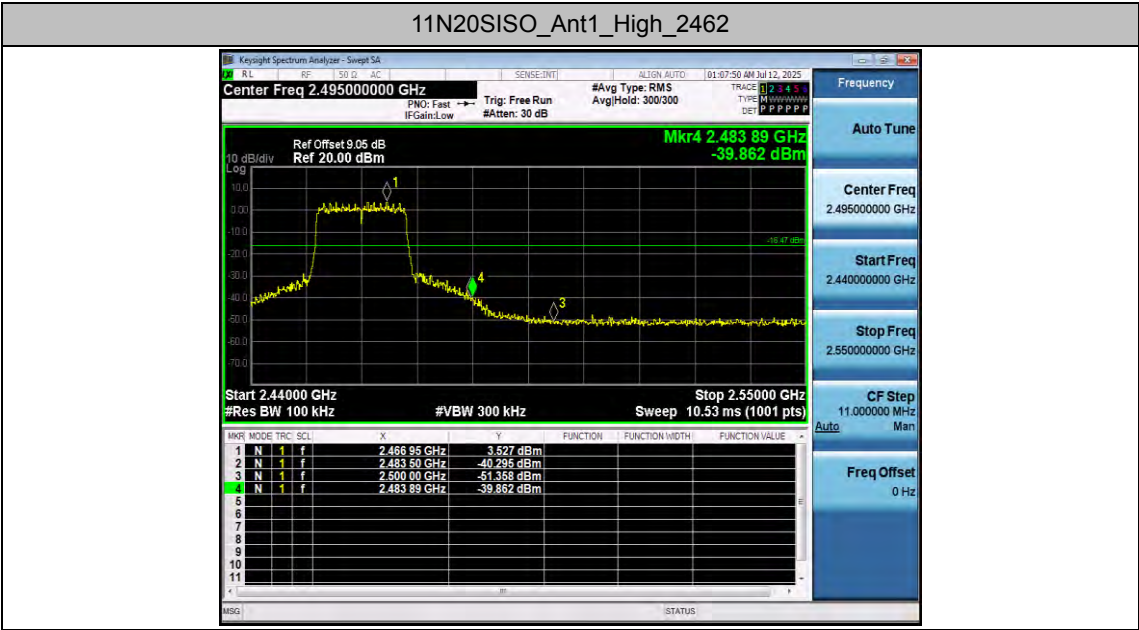


11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



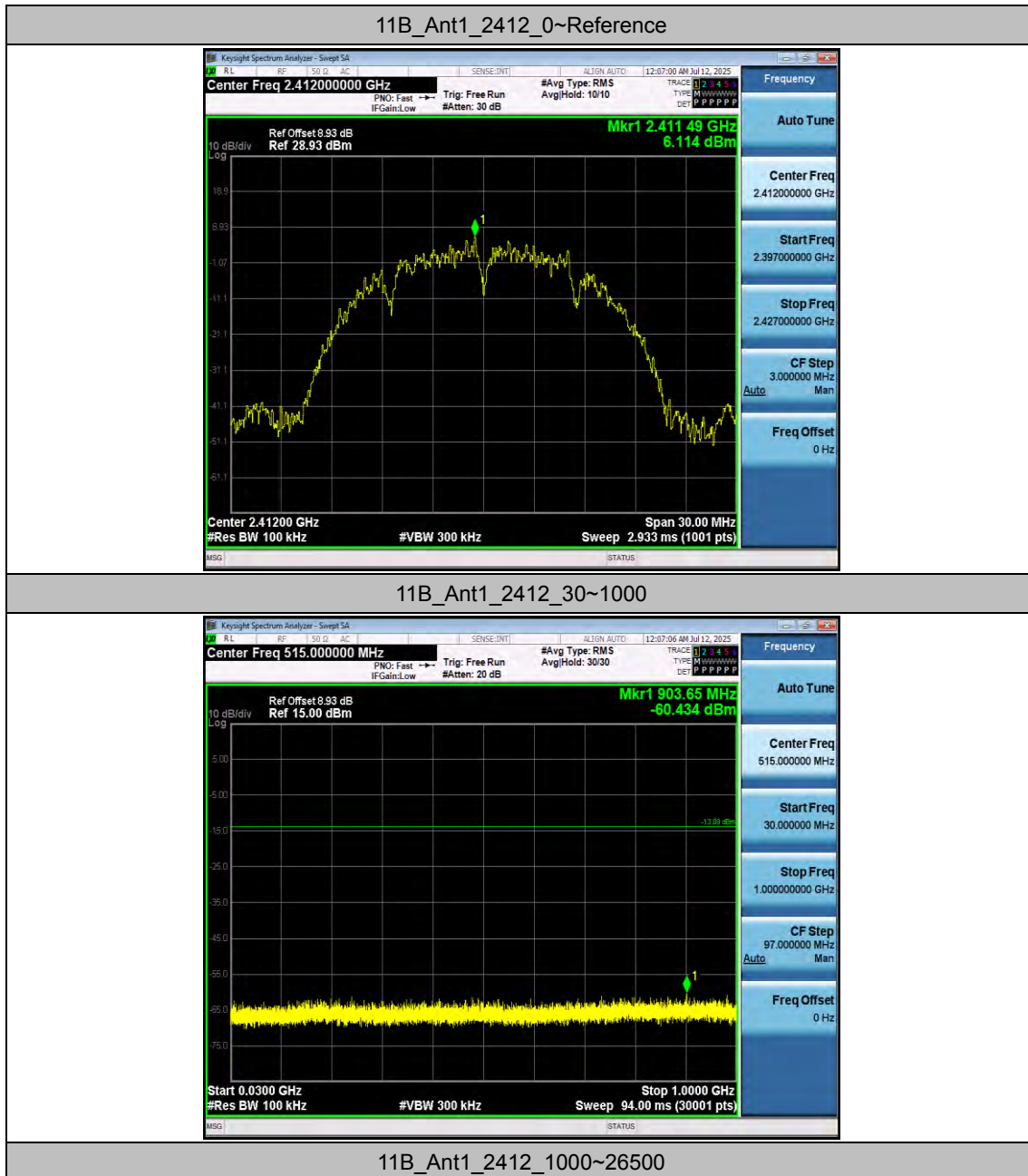


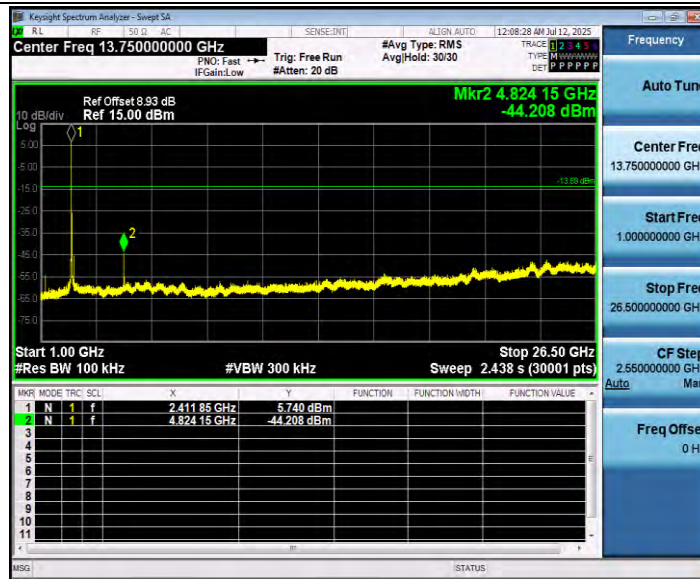
Appendix A.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	6.11	6.11	---	PASS
			30~1000	6.11	-60.43	≤ -13.89	PASS
			1000~26500	6.11	-44.21	≤ -13.89	PASS
		2437	Reference	6.52	6.52	---	PASS
			30~1000	6.52	-60.11	≤ -13.48	PASS
			1000~26500	6.52	-43.36	≤ -13.48	PASS
		2462	Reference	7.36	7.36	---	PASS
			30~1000	7.36	-60.47	≤ -12.64	PASS
			1000~26500	7.36	-41.6	≤ -12.64	PASS
11G	Ant1	2412	Reference	1.42	1.42	---	PASS
			30~1000	1.42	-60.93	≤ -18.58	PASS
			1000~26500	1.42	-47.61	≤ -18.58	PASS
		2437	Reference	0.42	0.42	---	PASS
			30~1000	0.42	-60.39	≤ -19.58	PASS
			1000~26500	0.42	-47.83	≤ -19.58	PASS
		2462	Reference	3.73	3.73	---	PASS
			30~1000	3.73	-60.35	≤ -16.27	PASS
			1000~26500	3.73	-47.39	≤ -16.27	PASS
11N20SISO	Ant1	2412	Reference	0.74	0.74	---	PASS
			30~1000	0.74	-60.34	≤ -19.26	PASS
			1000~26500	0.74	-47.53	≤ -19.26	PASS
		2437	Reference	2.73	2.73	---	PASS
			30~1000	2.73	-55.56	≤ -17.27	PASS
			1000~26500	2.73	-47.47	≤ -17.27	PASS
		2462	Reference	3.52	3.52	---	PASS
			30~1000	3.52	-60.5	≤ -16.48	PASS
			1000~26500	3.52	-47.64	≤ -16.48	PASS

Test Graphs

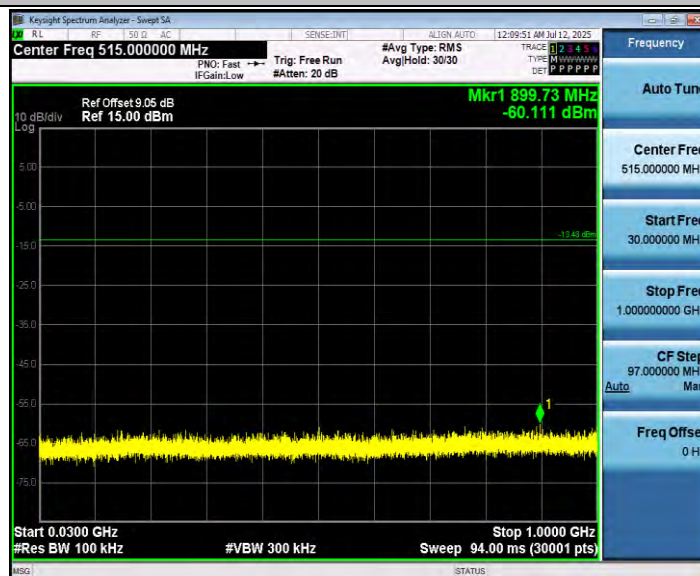




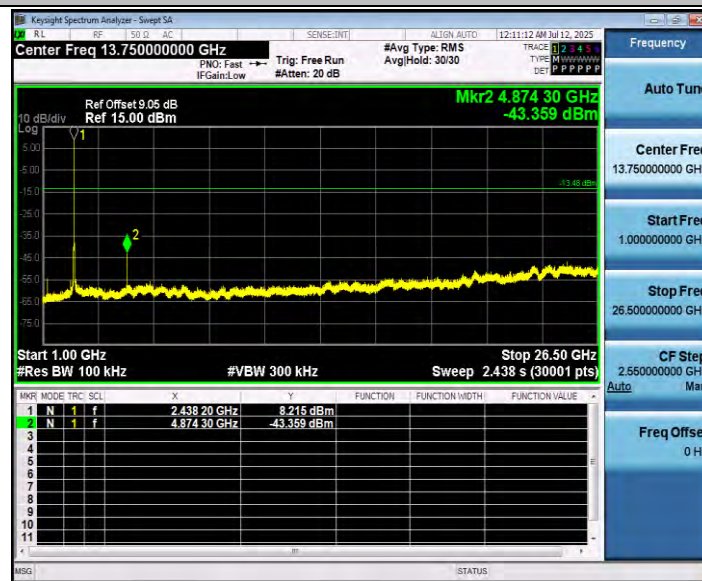
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



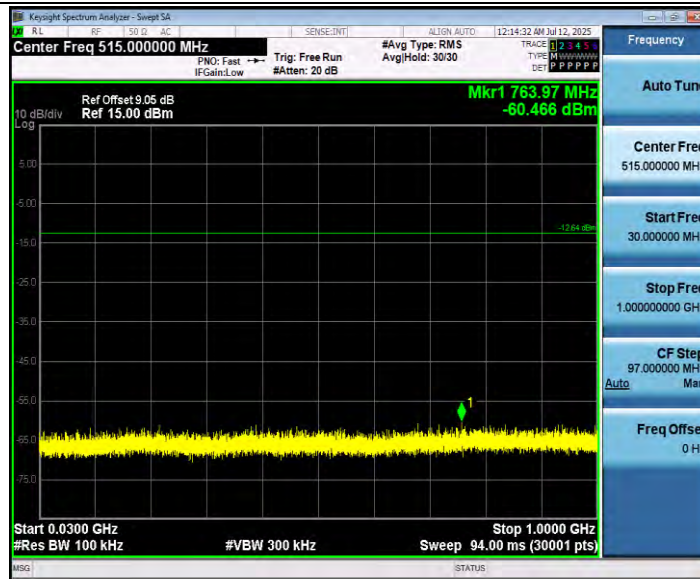
11B_Ant1_2437_1000~26500



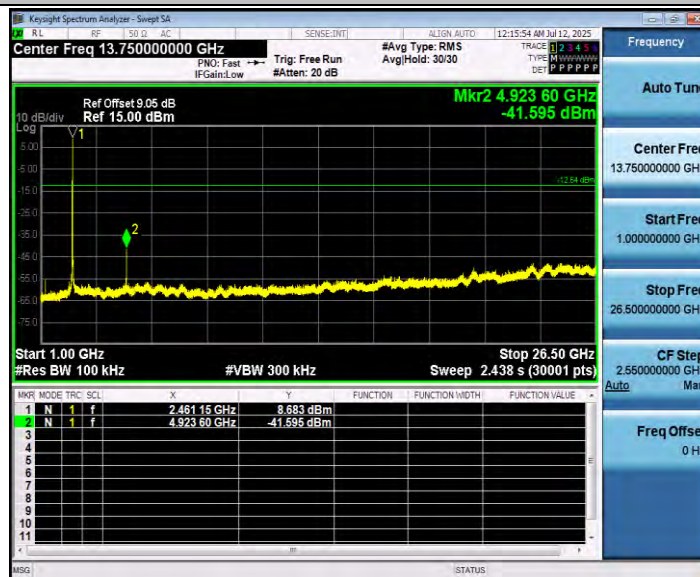
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000

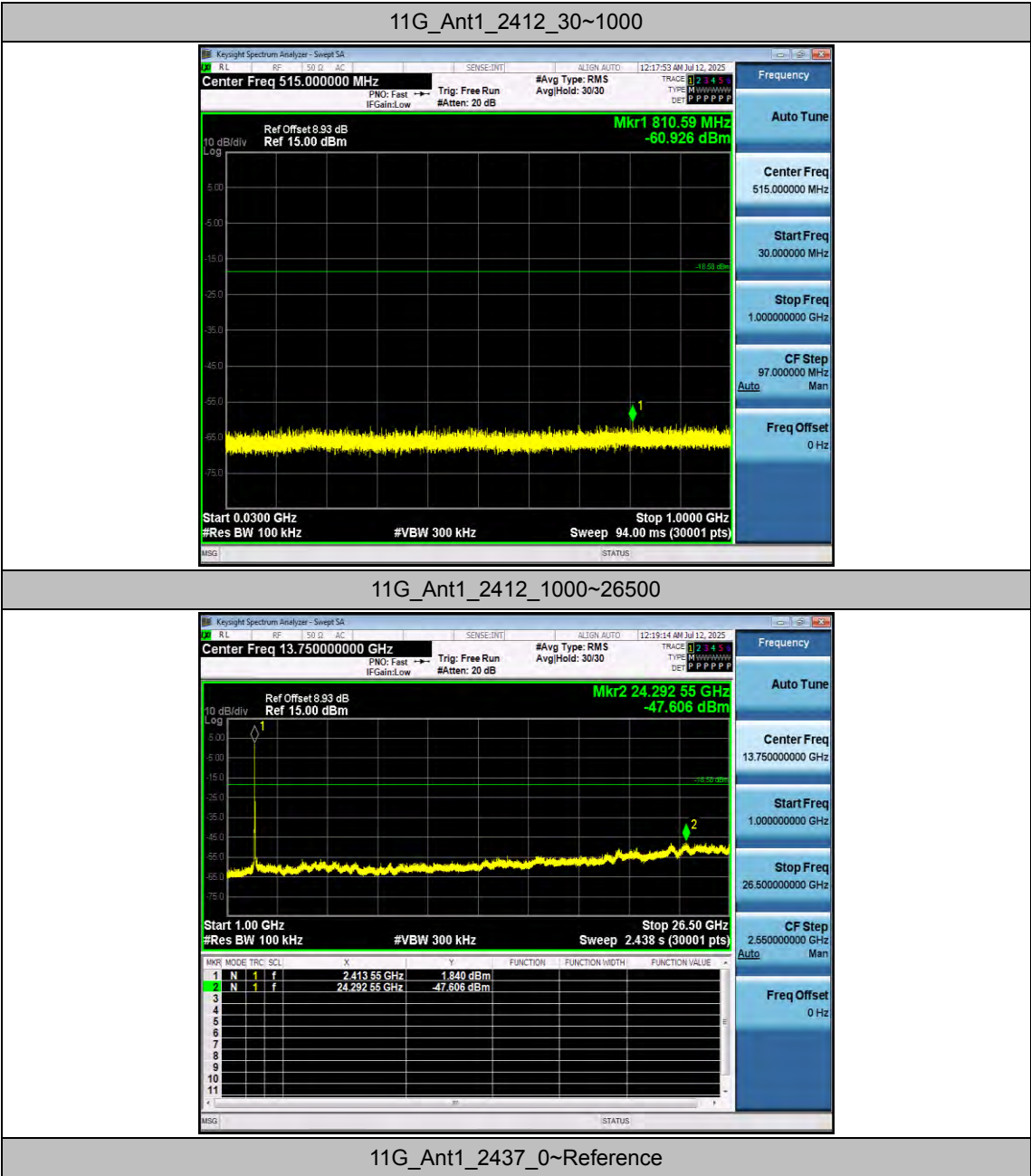


11B_Ant1_2462_1000~26500



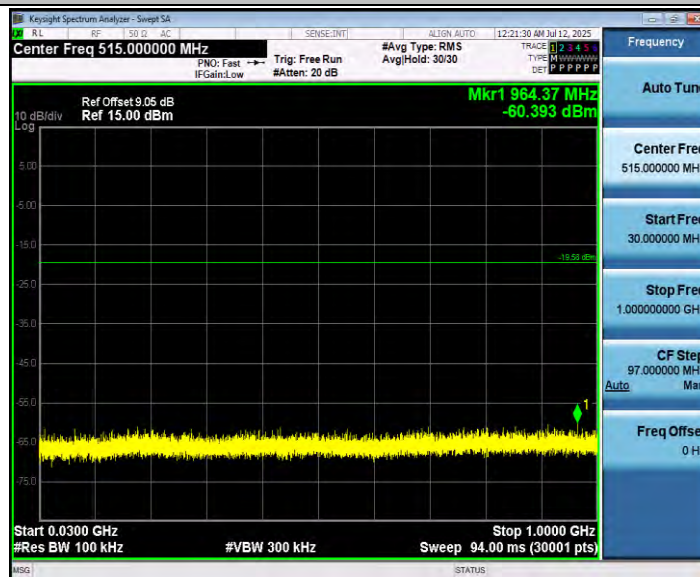
11G_Ant1_2412_0~Reference







11G_Ant1_2437_30~1000



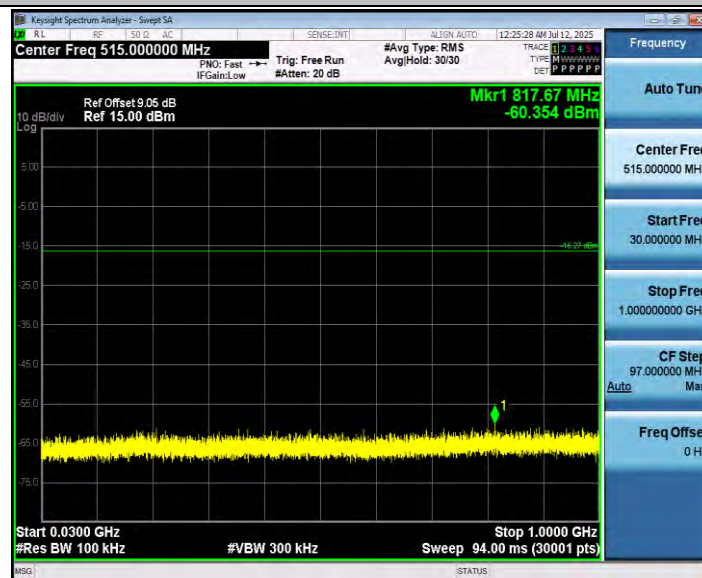
11G_Ant1_2437_1000~26500



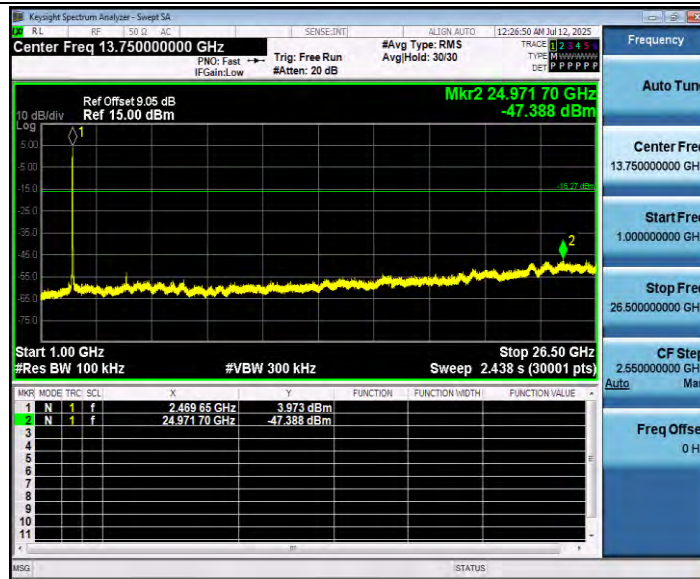
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



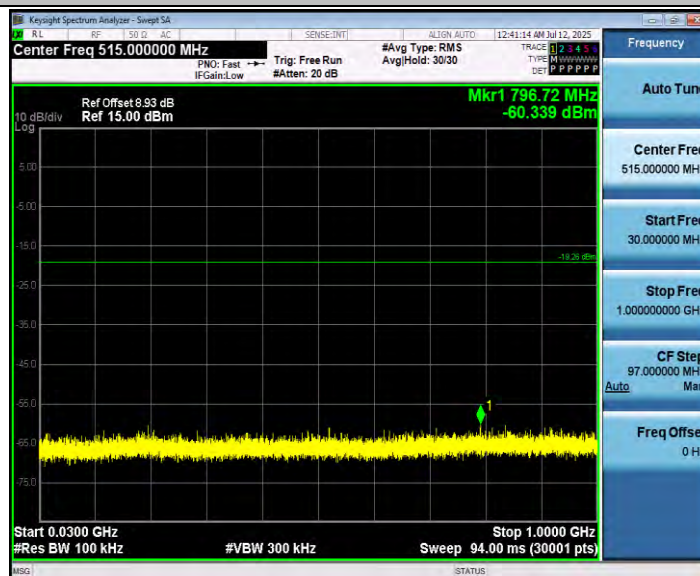
11G_Ant1_2462_1000~26500



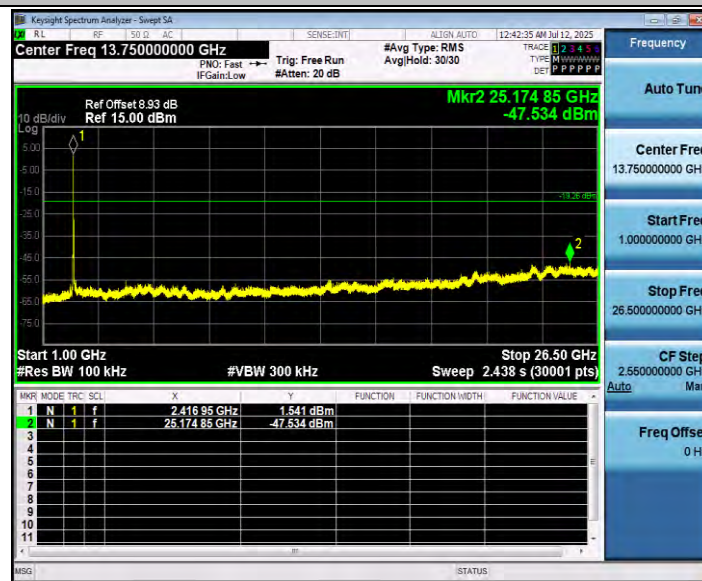
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



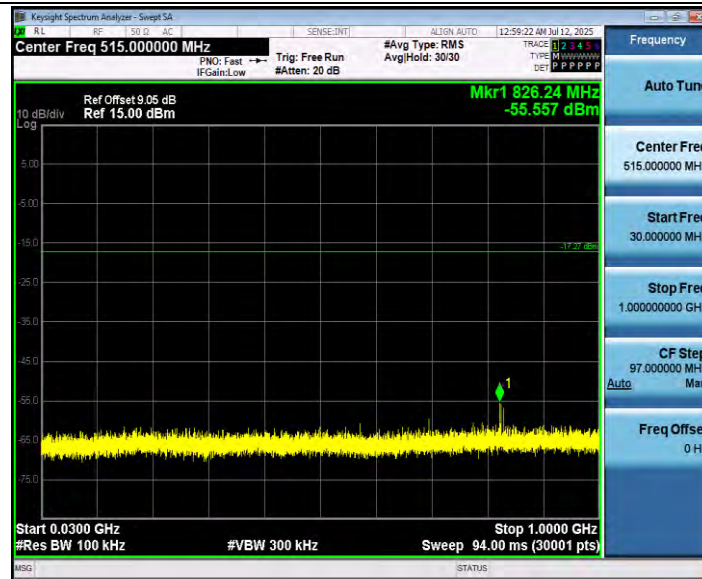
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

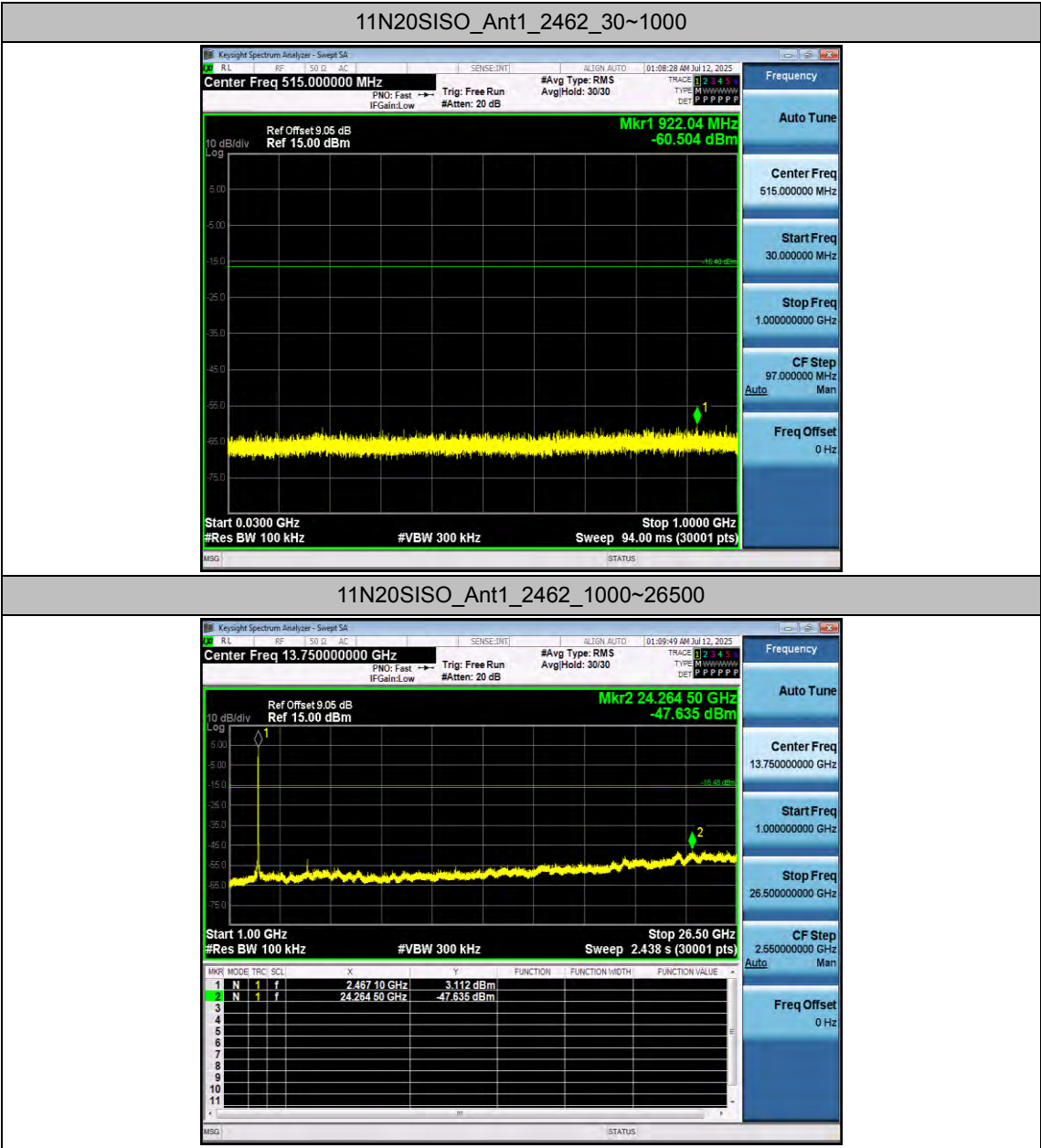


11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



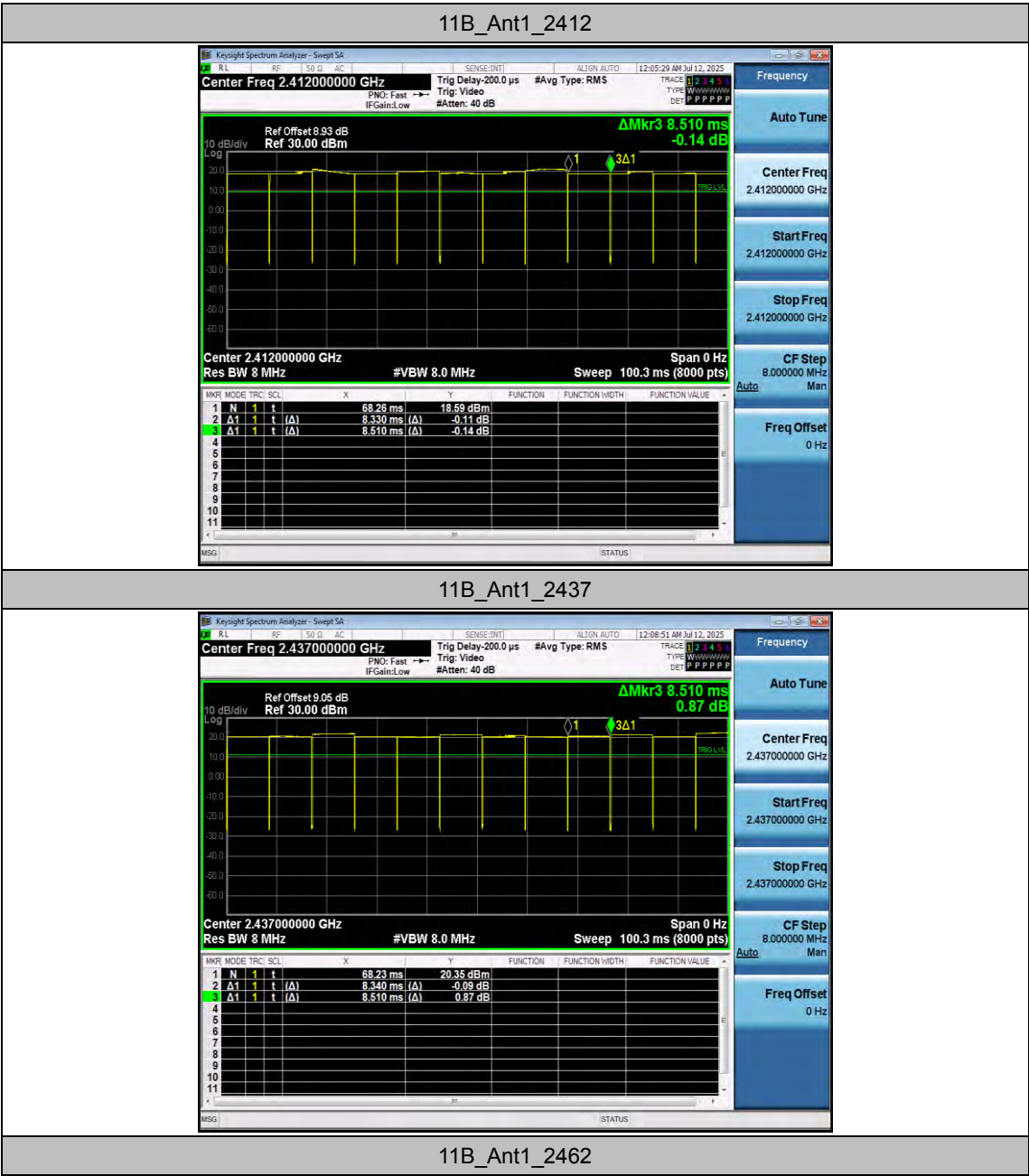


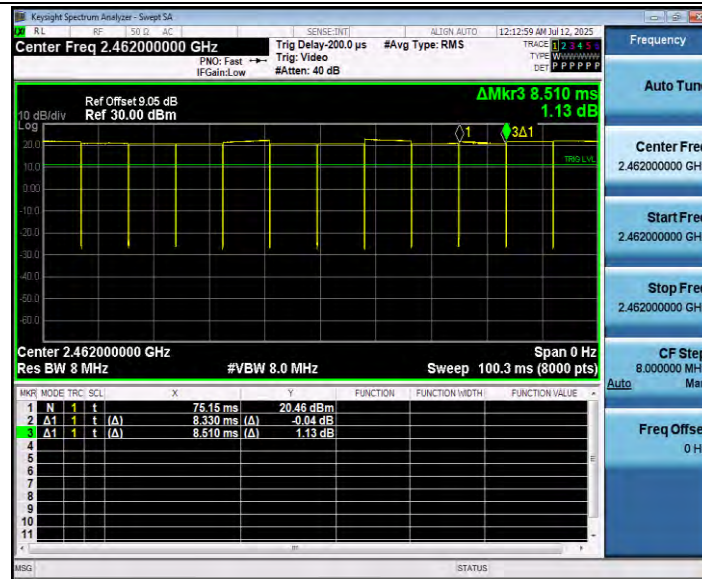
Appendix A.7: Duty Cycle

Test Result

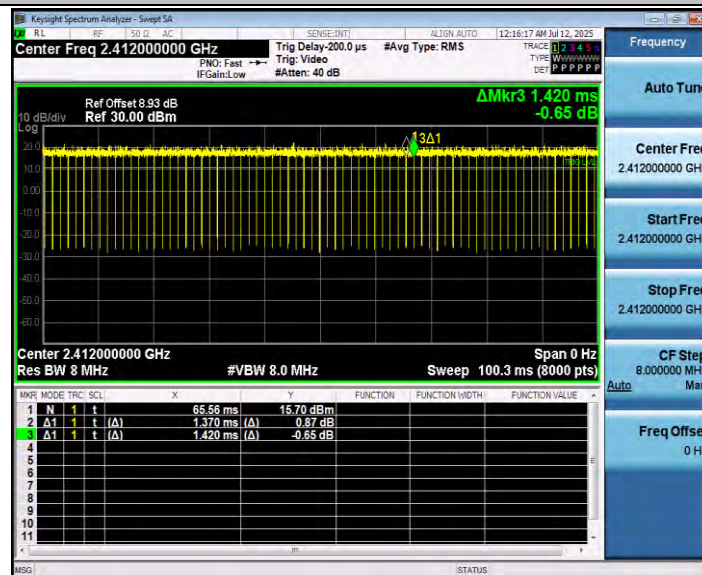
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11B	Ant1	2412	8.33	8.51	97.88	0.09	0.12
		2437	8.34	8.51	98.00	0.09	0.12
		2462	8.33	8.51	97.88	0.09	0.12
11G	Ant1	2412	1.37	1.42	96.48	0.16	0.73
		2437	1.37	1.42	96.48	0.16	0.73
		2462	1.36	1.41	96.45	0.16	0.74
11N20SISO	Ant1	2412	1.46	2.01	72.64	1.39	0.68
		2437	1.46	1.70	85.88	0.66	0.68
		2462	1.46	1.70	85.88	0.66	0.68

Test Graphs

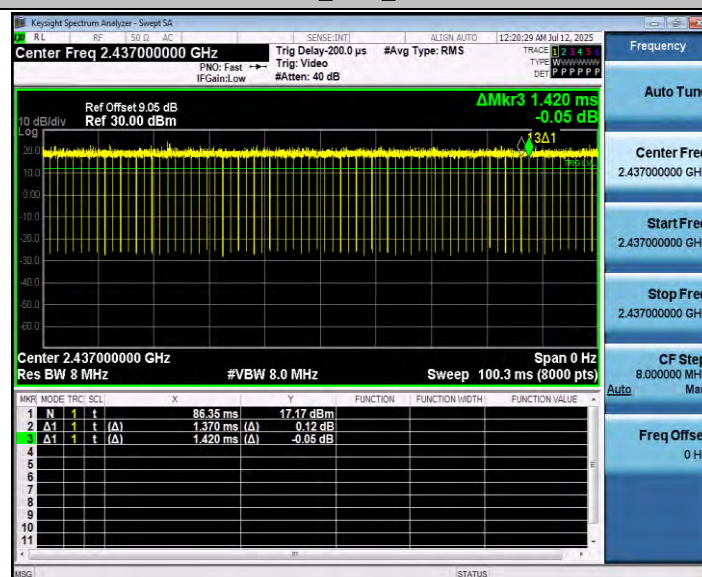




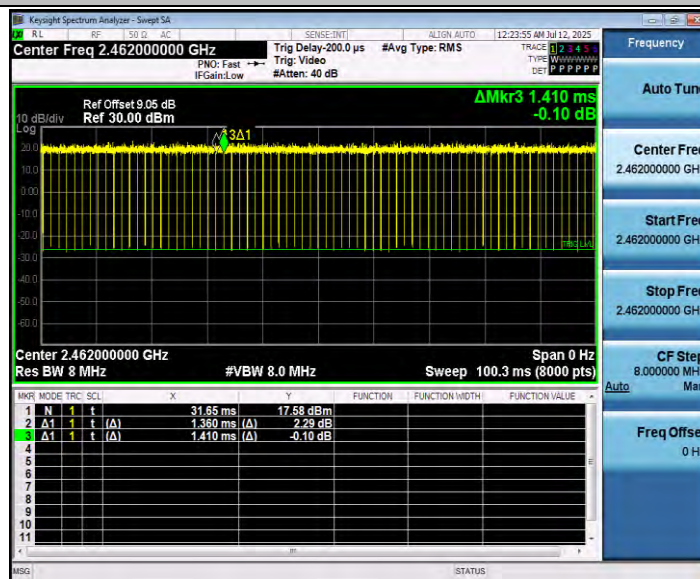
11G_Ant1_2412



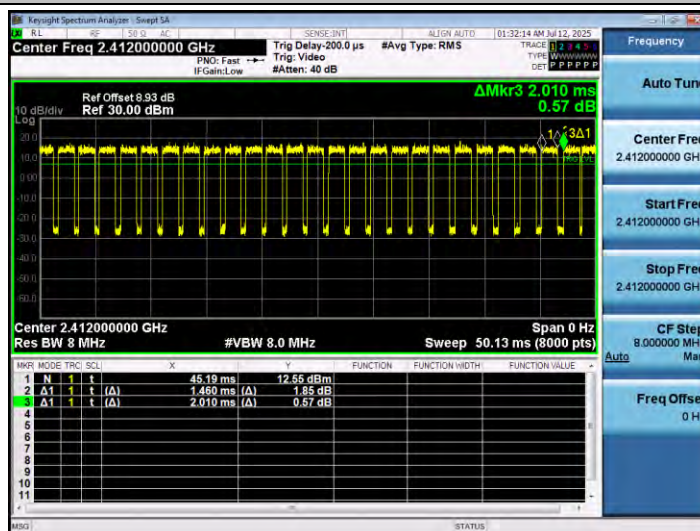
11G_Ant1_2437



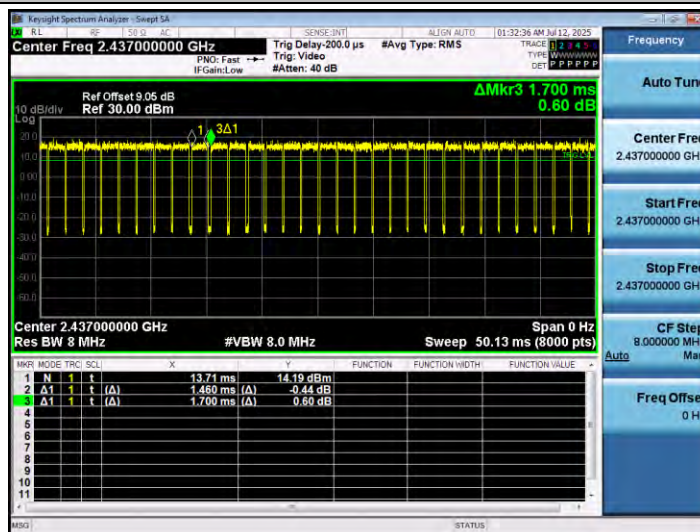
11G_Ant1_2462



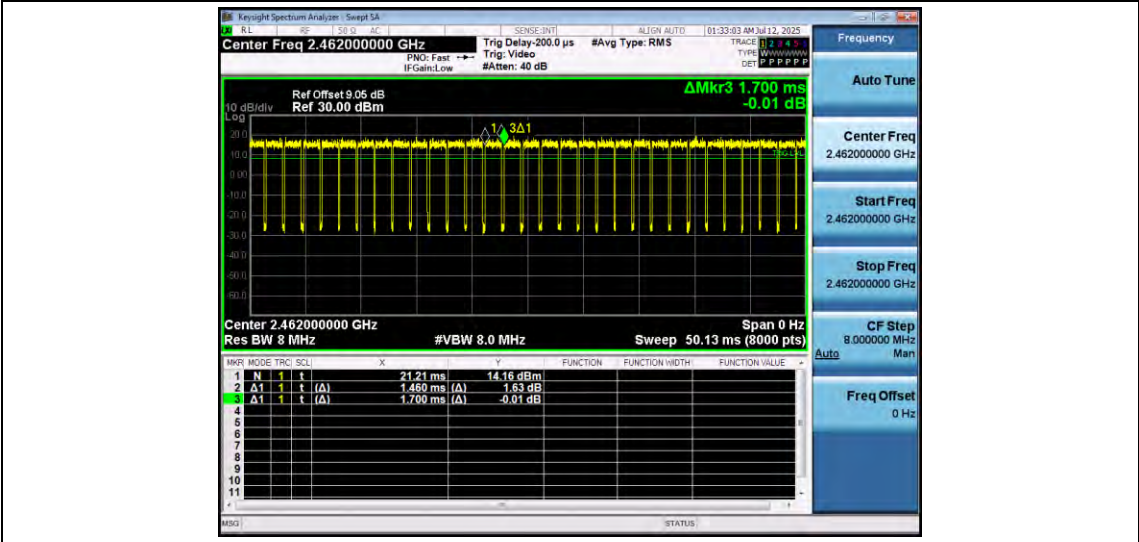
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix A.8: Emissions in Restricted Bands

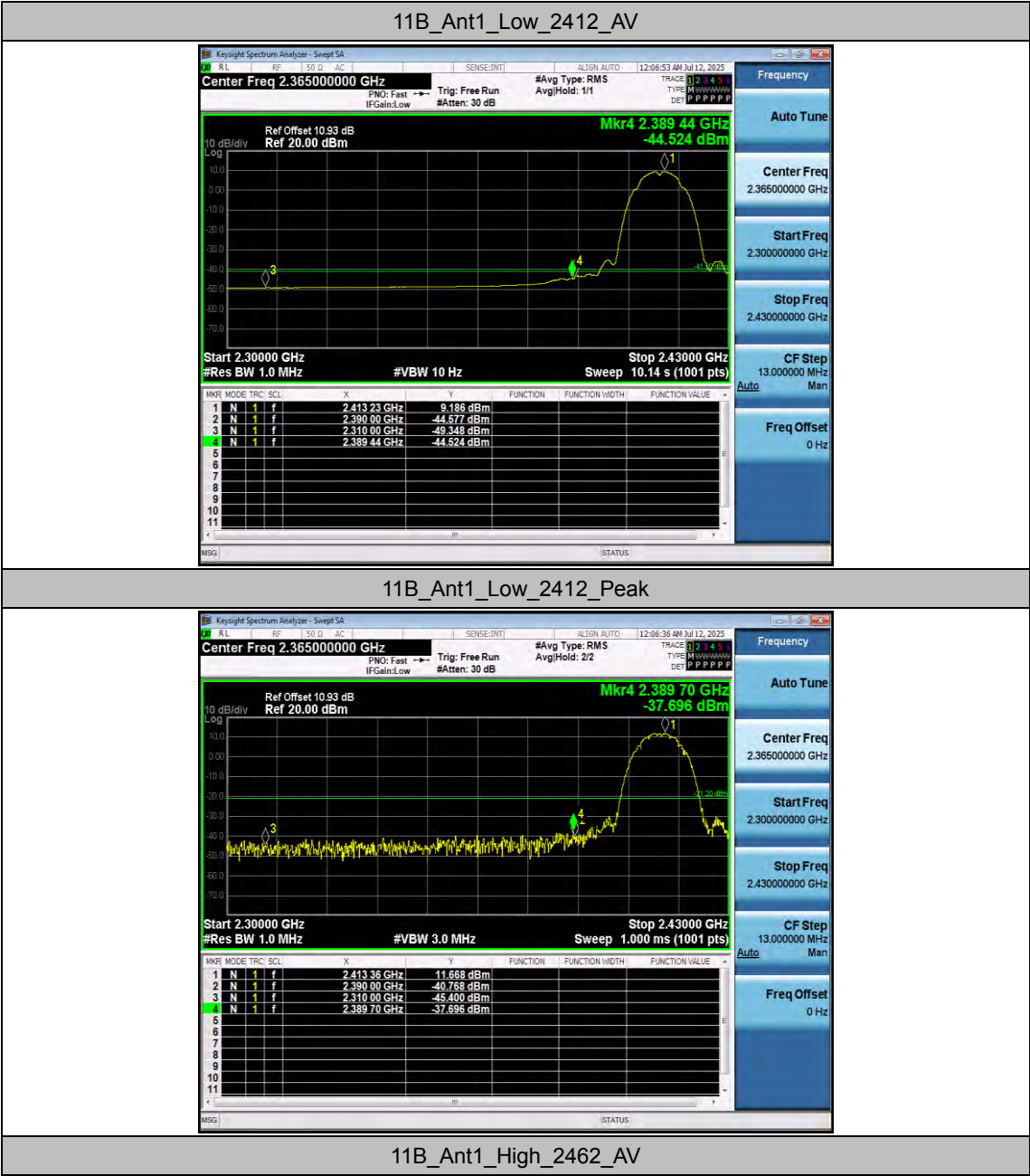
Test Result

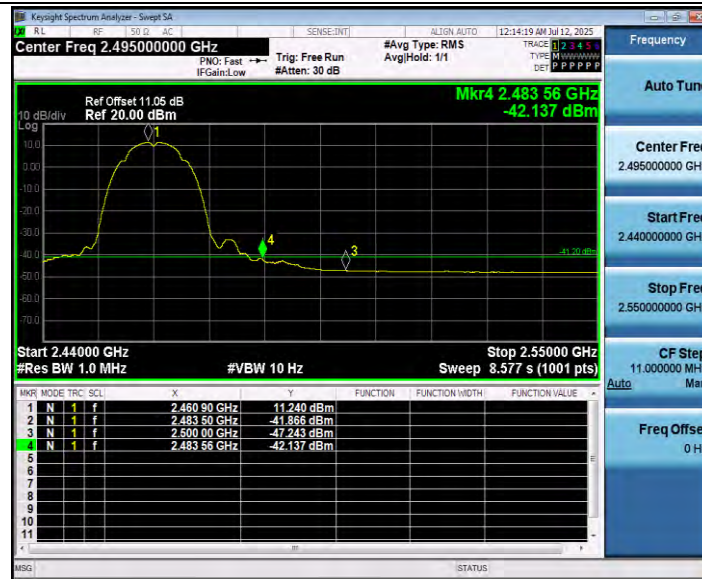
TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.35	≤-41.20	45.85	≤54	PASS
				AV	2389.440	-44.52	≤-41.20	50.68	≤54	PASS
				AV	2390.000	-44.58	≤-41.20	50.62	≤54	PASS
				Peak	2310.000	-45.4	≤-21.20	49.80	≤74	PASS
				Peak	2389.700	-37.7	≤-21.20	57.50	≤74	PASS
				Peak	2390.000	-40.77	≤-21.20	54.43	≤74	PASS
		High	2462	AV	2483.500	-41.87	≤-41.20	53.33	≤54	PASS
				AV	2483.560	-42.14	≤-41.20	53.06	≤54	PASS
				AV	2500.000	-47.24	≤-41.20	47.96	≤54	PASS
				Peak	2483.500	-41.15	≤-21.20	54.05	≤74	PASS
				Peak	2484.220	-36.23	≤-21.20	58.97	≤74	PASS
				Peak	2500.000	-42.24	≤-21.20	52.96	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.67	≤-41.20	45.53	≤54	PASS
				AV	2389.960	-46.78	≤-41.20	48.42	≤54	PASS
				AV	2390.000	-46.78	≤-41.20	48.42	≤54	PASS
				Peak	2310.000	-45.42	≤-21.20	49.78	≤74	PASS
				Peak	2329.770	-40.4	≤-21.20	54.80	≤74	PASS
				Peak	2390.000	-45.61	≤-21.20	49.59	≤74	PASS
		High	2462	AV	2483.500	-43.44	≤-41.20	51.76	≤54	PASS
				AV	2483.560	-43.64	≤-41.20	51.56	≤54	PASS
				AV	2500.000	-48.73	≤-41.20	46.47	≤54	PASS
				Peak	2483.500	-38.92	≤-21.20	56.28	≤74	PASS
				Peak	2486.310	-34.12	≤-21.20	61.08	≤74	PASS
				Peak	2500.000	-46.53	≤-21.20	48.67	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.53	≤-41.20	45.67	≤54	PASS
				AV	2389.960	-43.31	≤-41.20	51.89	≤54	PASS
				AV	2390.000	-43.31	≤-41.20	51.89	≤54	PASS
				Peak	2310.000	-48.51	≤-21.20	46.69	≤74	PASS
				Peak	2384.240	-35.09	≤-21.20	60.11	≤74	PASS
				Peak	2390.000	-40.8	≤-21.20	54.40	≤74	PASS
		High	2462	AV	2483.500	-45.24	≤-41.20	49.96	≤54	PASS
				AV	2483.560	-45.33	≤-41.20	49.87	≤54	PASS
				AV	2500.000	-48.82	≤-41.20	46.38	≤54	PASS
				Peak	2483.500	-39.09	≤-21.20	56.11	≤74	PASS
				Peak	2483.560	-37.66	≤-21.20	57.54	≤74	PASS
				Peak	2500.000	-44.87	≤-21.20	50.33	≤74	PASS

Note:

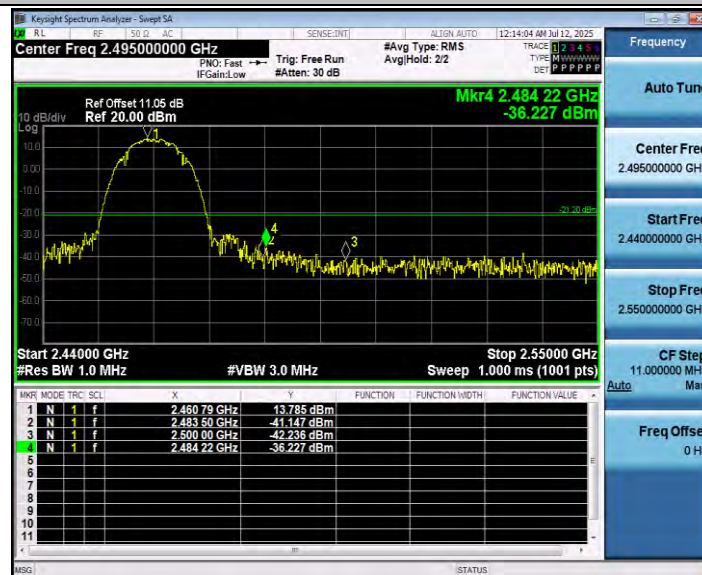
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs





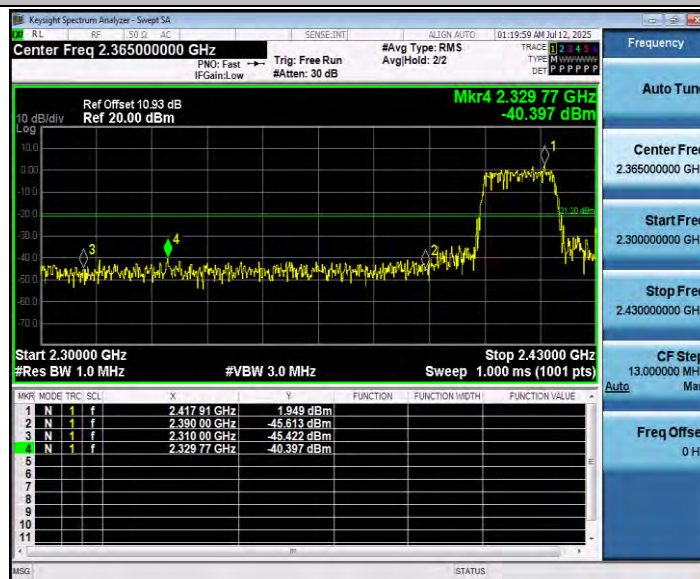
11B_Ant1_High_2462_Peak



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

