

Case No. : <u>GTS20250806018-1-01</u>	
Ambient Condition: <u>22°C, 53%RH,</u>	
Test Date: <u>2025.9.5-2025.9.29</u>	Test Engineer: <u>Evan ouyang</u>

AppendixA.1: DTS Bandwidth

Test Result

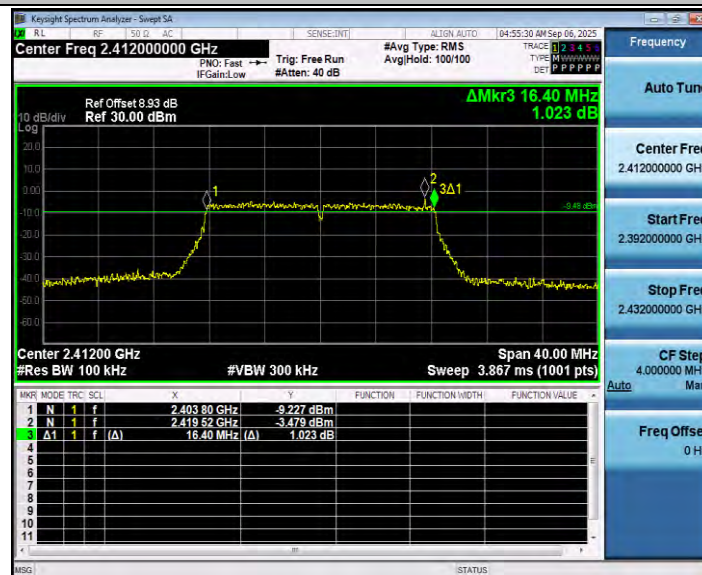
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.720	2407.120	2416.840	0.5	PASS
		2437	9.720	2432.160	2441.880	0.5	PASS
		2462	9.760	2457.120	2466.880	0.5	PASS
11G	Ant1	2412	16.400	2403.800	2420.200	0.5	PASS
		2437	16.400	2428.800	2445.200	0.5	PASS
		2462	16.360	2453.800	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.240	2420.800	0.5	PASS
		2437	17.320	2428.240	2445.560	0.5	PASS
		2462	17.200	2453.240	2470.440	0.5	PASS

Test Graphs





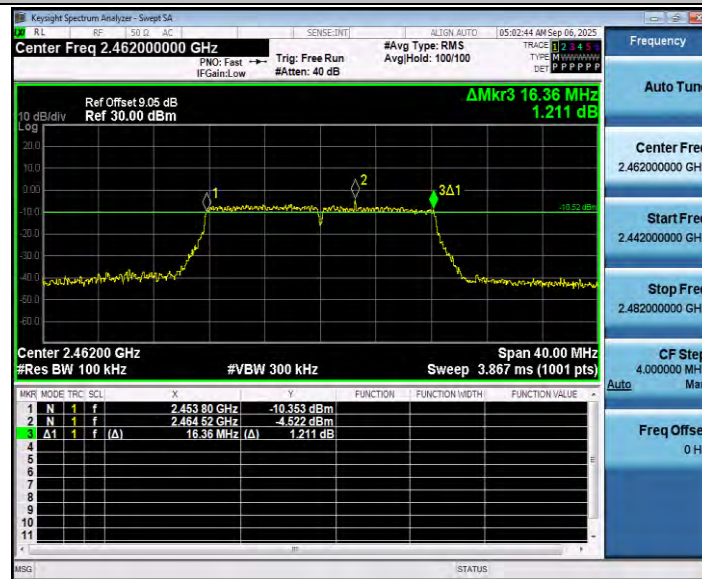
11G_Ant1_2412



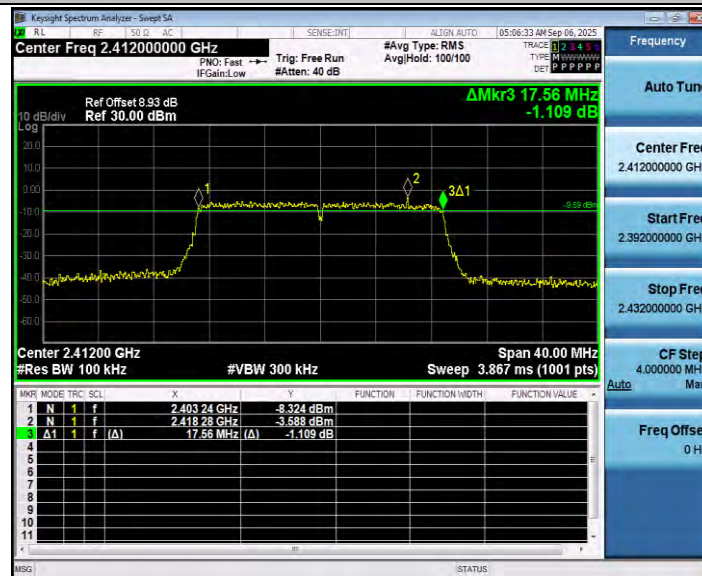
11G_Ant1_2437



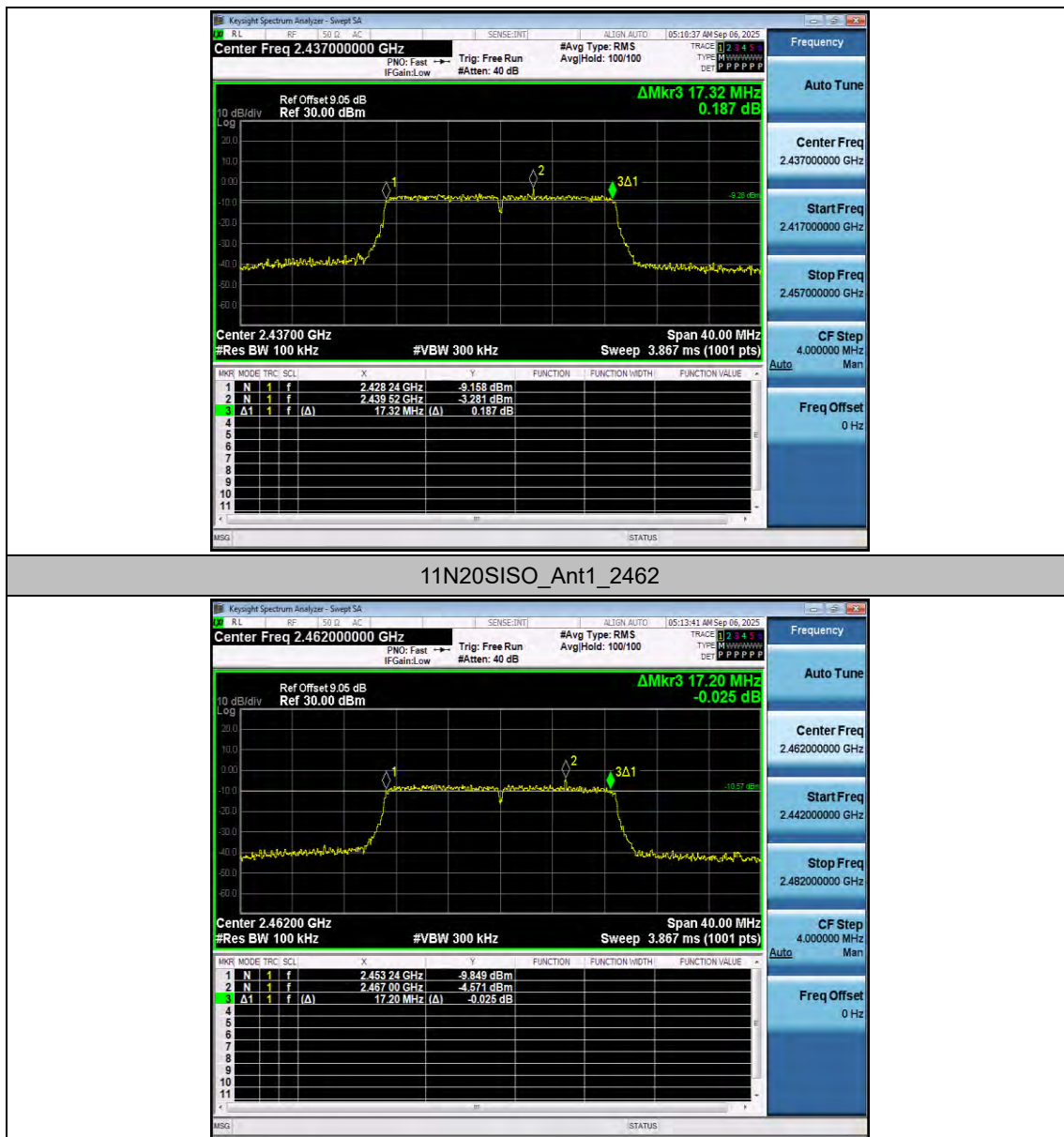
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

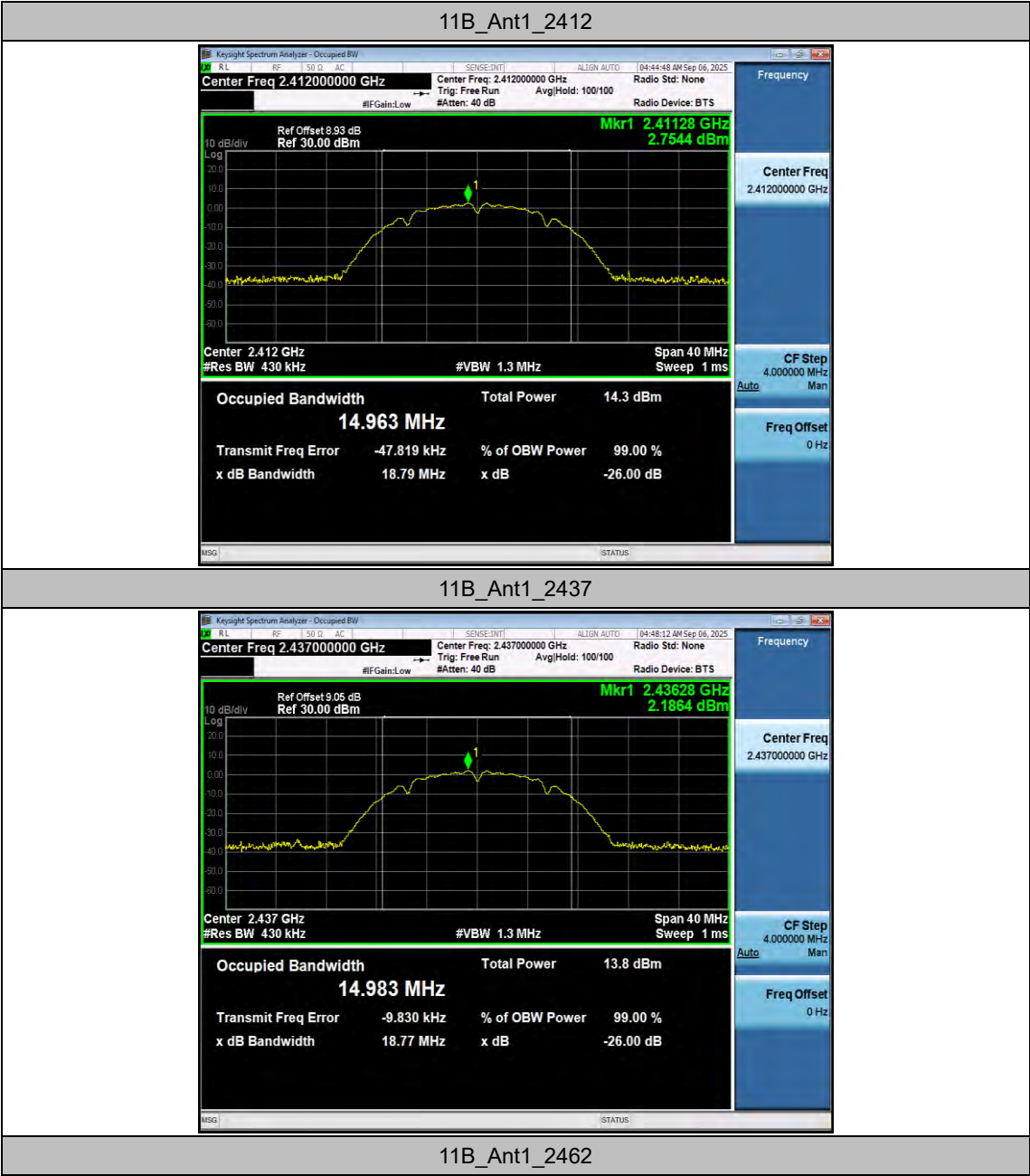


AppendixA.2: Occupied Channel Bandwidth

Test Result

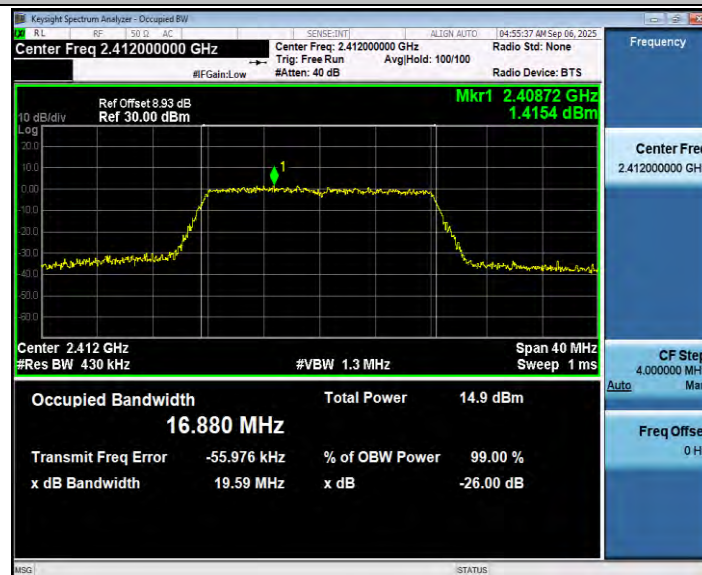
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.963	2404.4707	2419.4337	---	---
		2437	14.983	2429.4987	2444.4817	---	---
		2462	14.999	2454.4408	2469.4398	---	---
11G	Ant1	2412	16.880	2403.5040	2420.3840	---	---
		2437	16.845	2428.5670	2445.4120	---	---
		2462	16.808	2453.5668	2470.3748	---	---
11N20SISO	Ant1	2412	17.648	2403.1591	2420.8071	---	---
		2437	17.682	2428.1444	2445.8264	---	---
		2462	17.692	2453.1404	2470.8324	---	---

Test Graphs





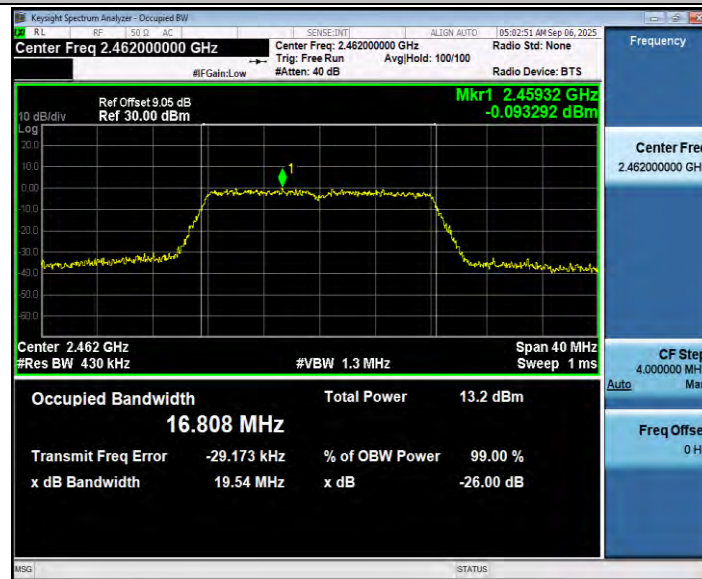
11G_Ant1_2412



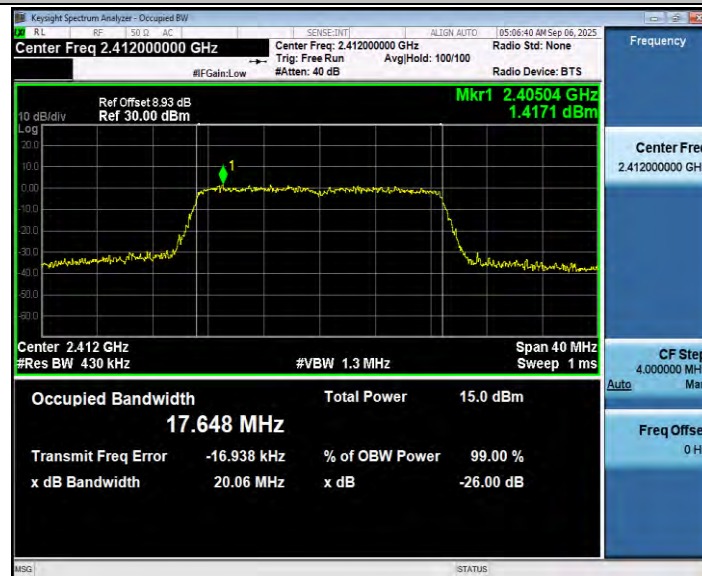
11G_Ant1_2437



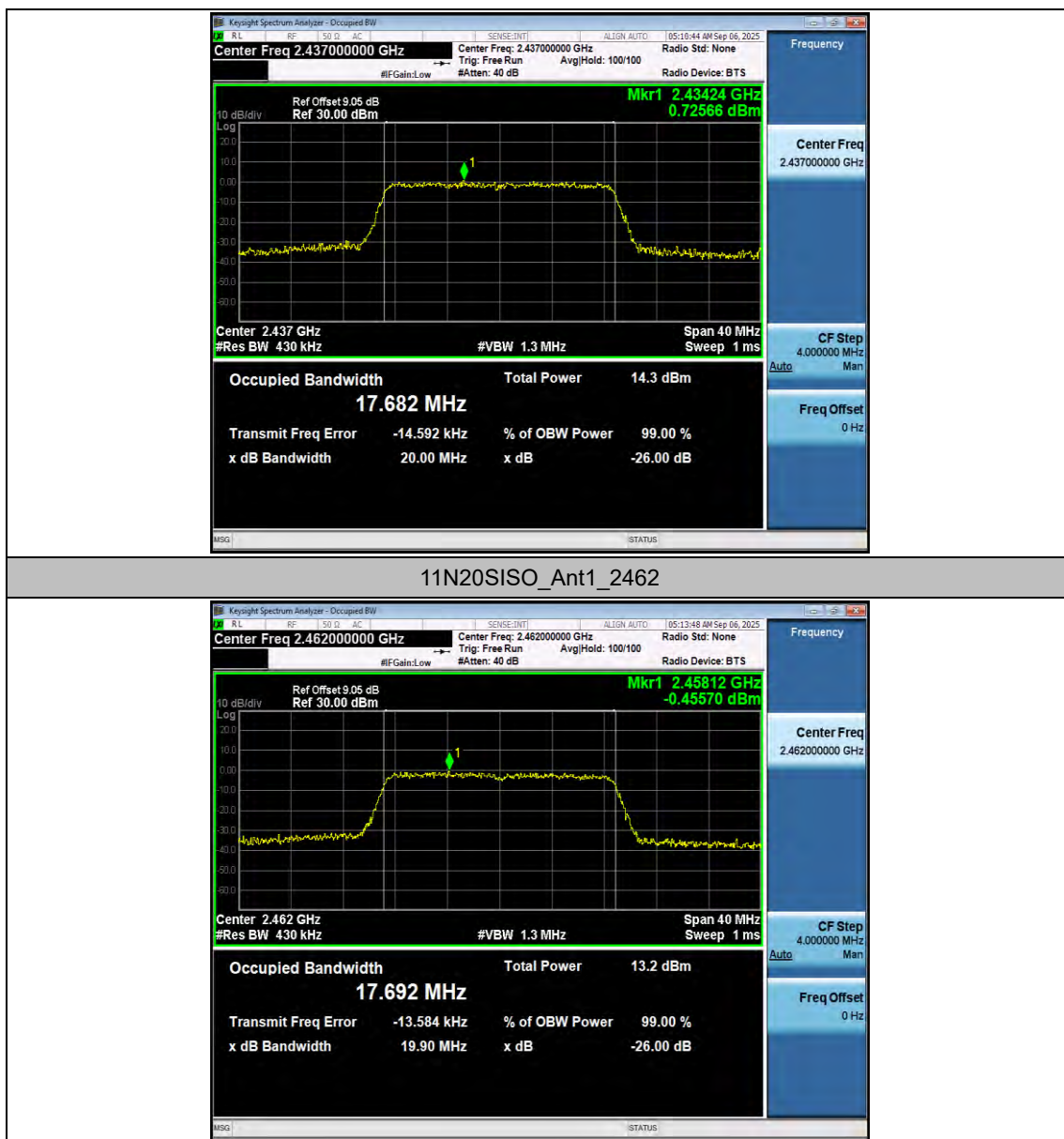
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



AppendixA.3: Maximum conducted output power

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.91	≤30.00	PASS
		2437	13.41	≤30.00	PASS
		2462	12.24	≤30.00	PASS
11G	Ant1	2412	16.09	≤30.00	PASS
		2437	15.70	≤30.00	PASS
		2462	14.43	≤30.00	PASS
11N20SISO	Ant1	2412	16.19	≤30.00	PASS
		2437	15.65	≤30.00	PASS
		2462	14.31	≤30.00	PASS

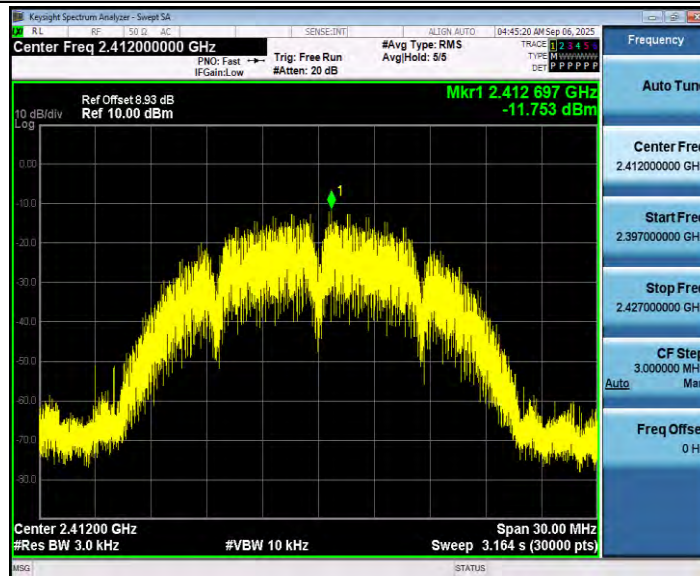
AppendixA.4: Maximum power spectral density

Test Result

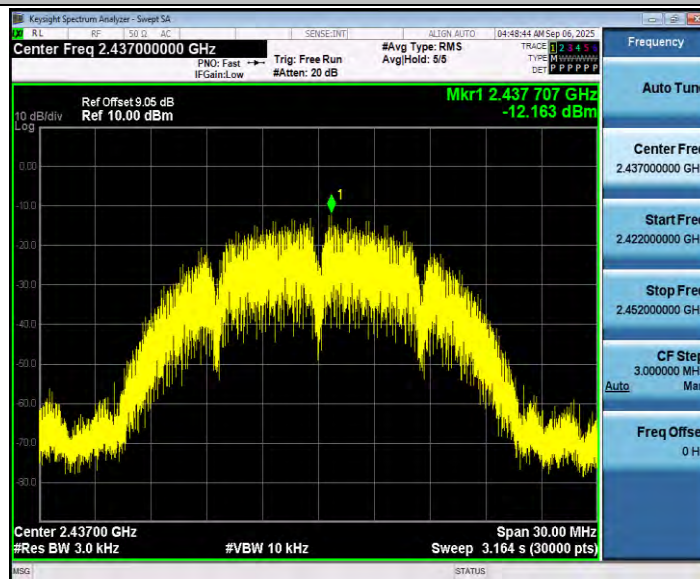
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.75	≤8.00	PASS
		2437	-12.16	≤8.00	PASS
		2462	-13.34	≤8.00	PASS
11G	Ant1	2412	-16.17	≤8.00	PASS
		2437	-17.13	≤8.00	PASS
		2462	-18.09	≤8.00	PASS
11N20SISO	Ant1	2412	-15.16	≤8.00	PASS
		2437	-17.42	≤8.00	PASS
		2462	-18.82	≤8.00	PASS

Test Graphs

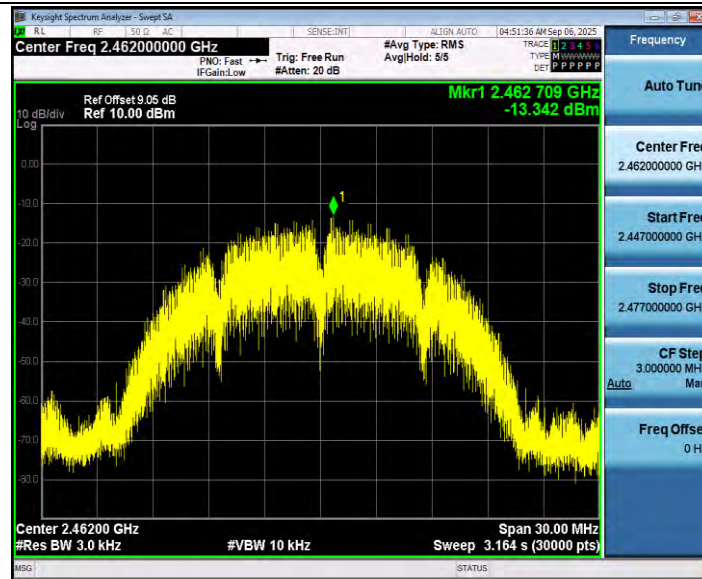
11B_Ant1_2412



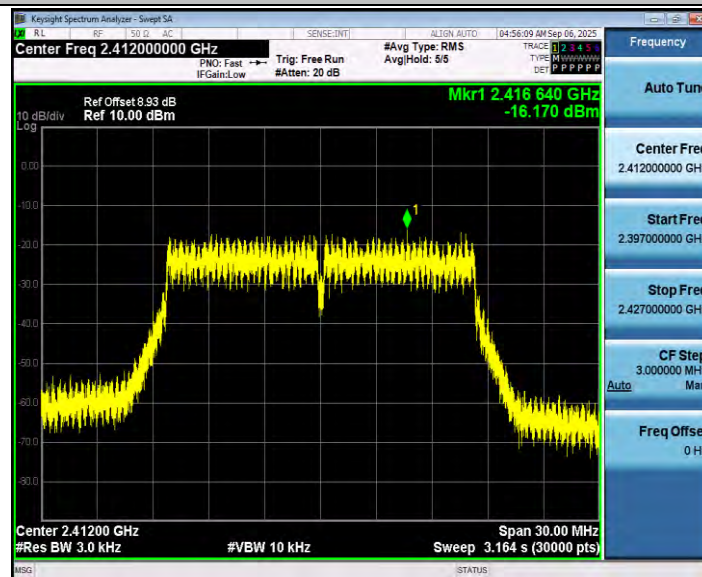
11B_Ant1_2437



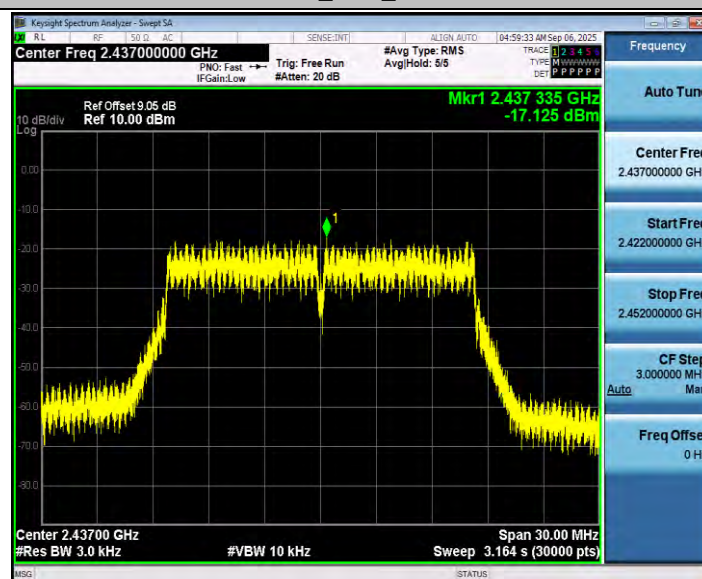
11B_Ant1_2462



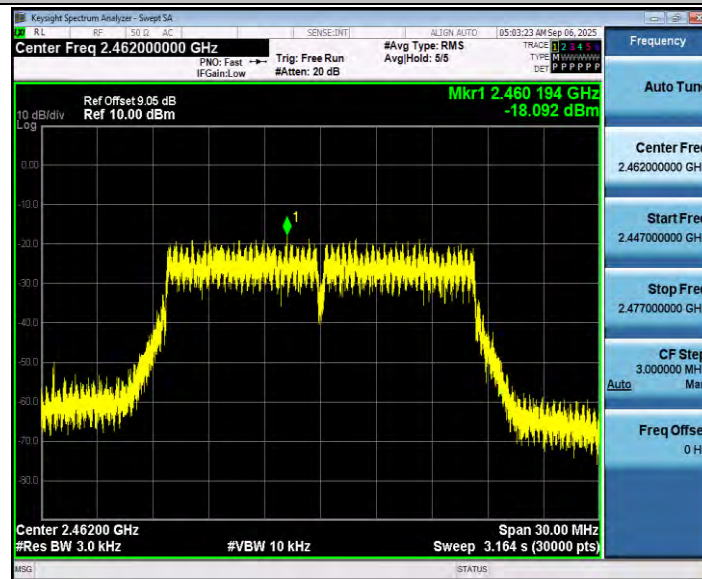
11G_Ant1_2412



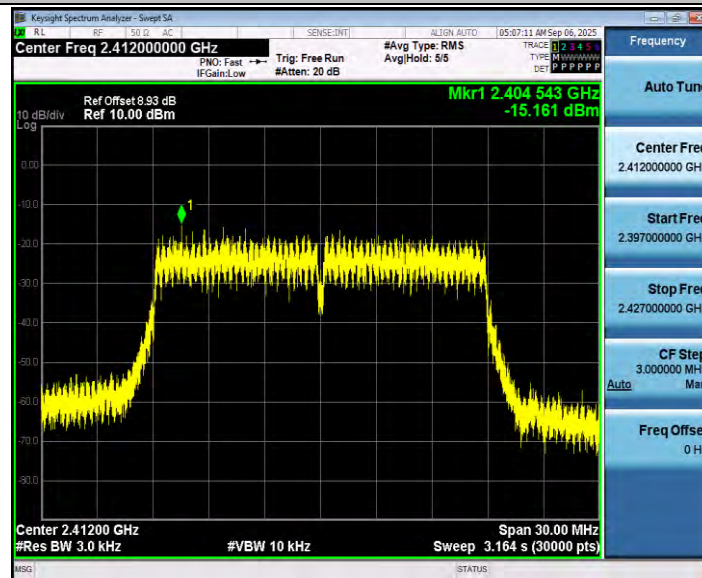
11G_Ant1_2437



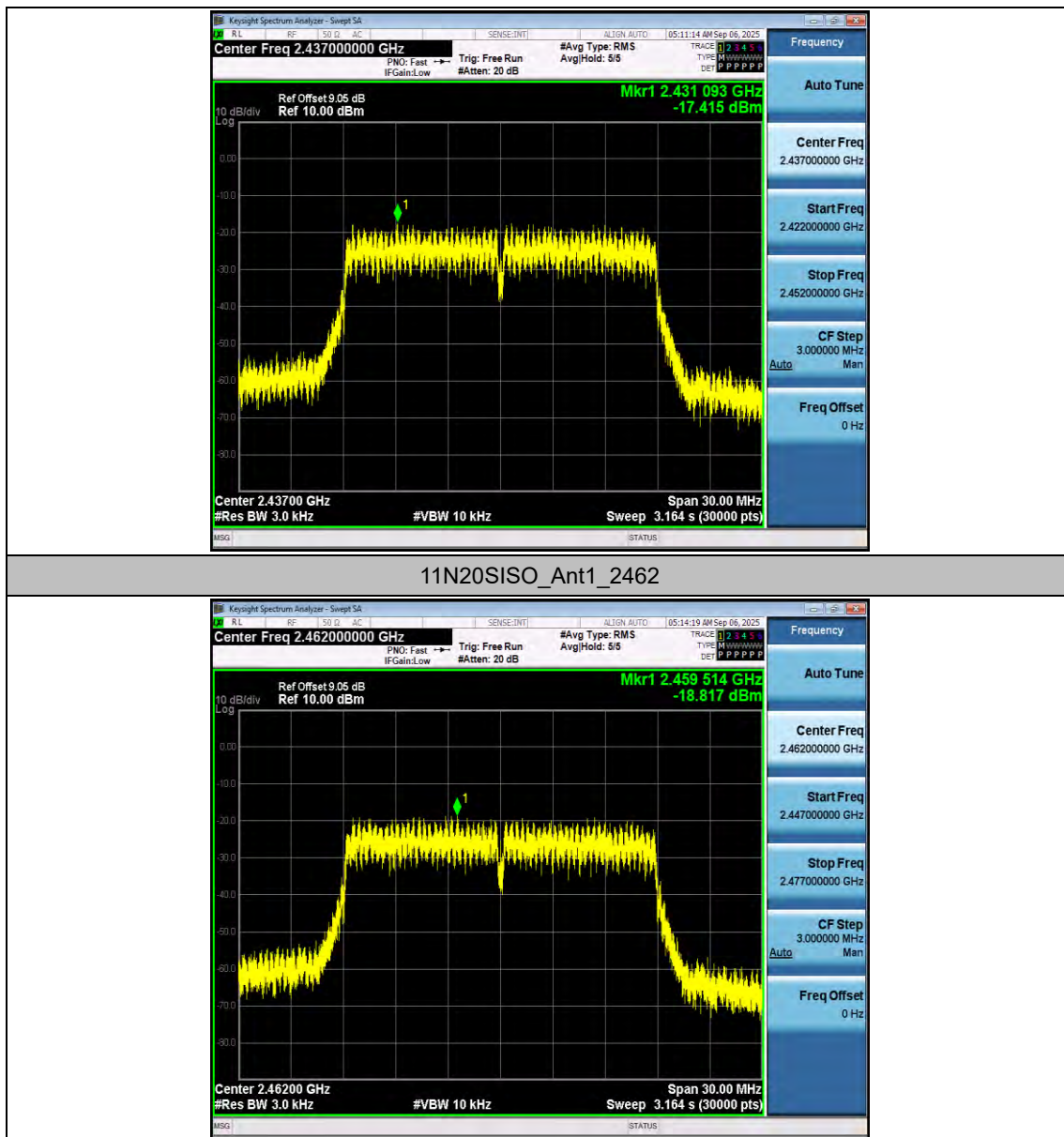
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

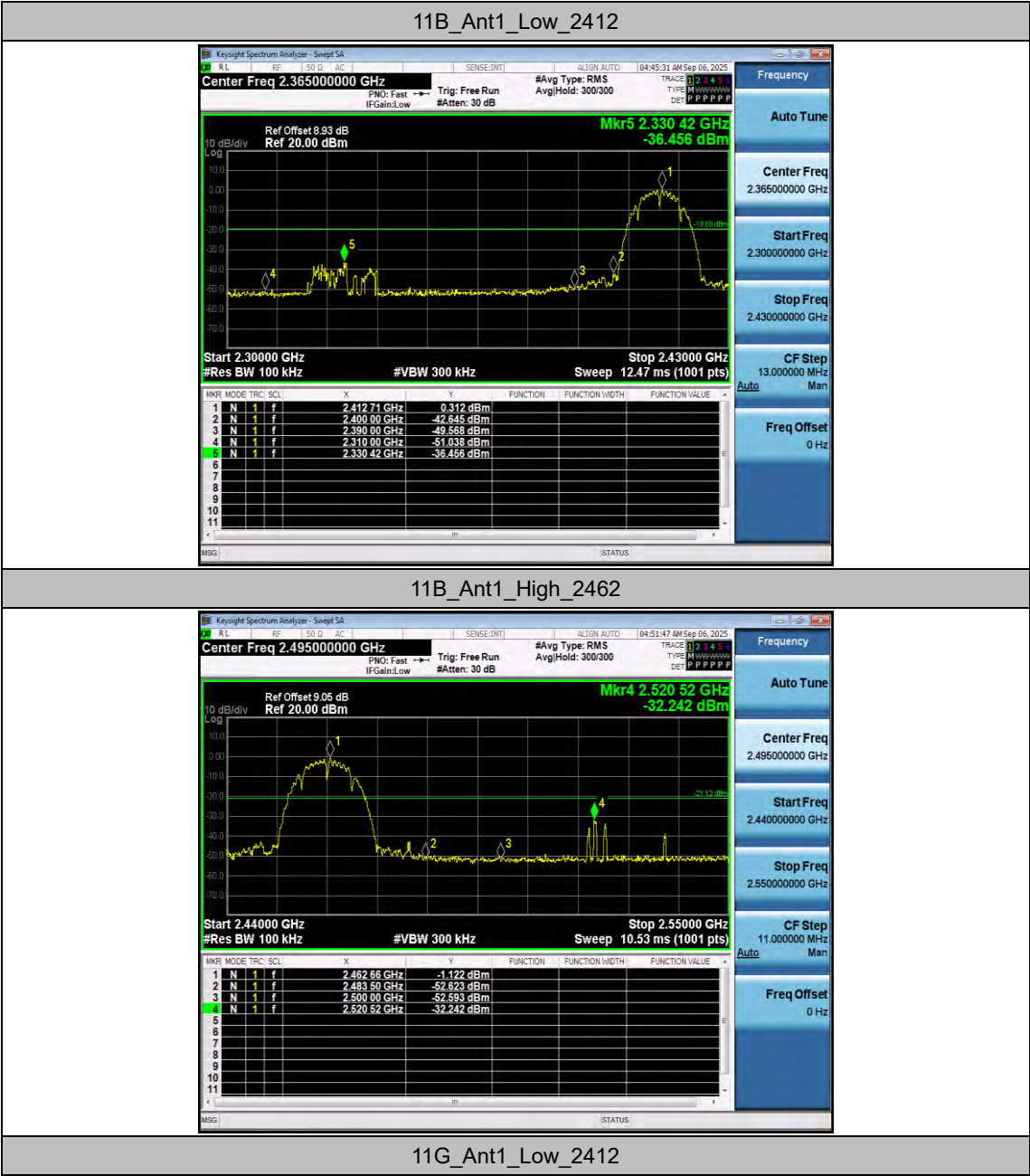


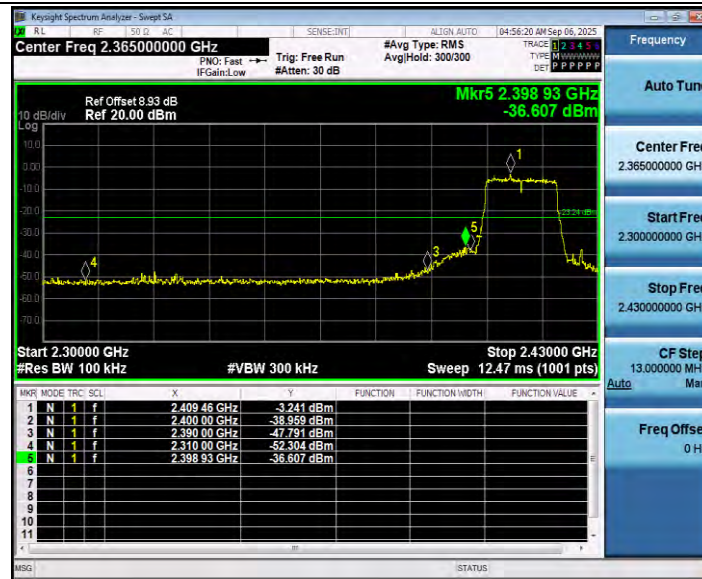
Appendix A.5: Band edge measurements

Test Result

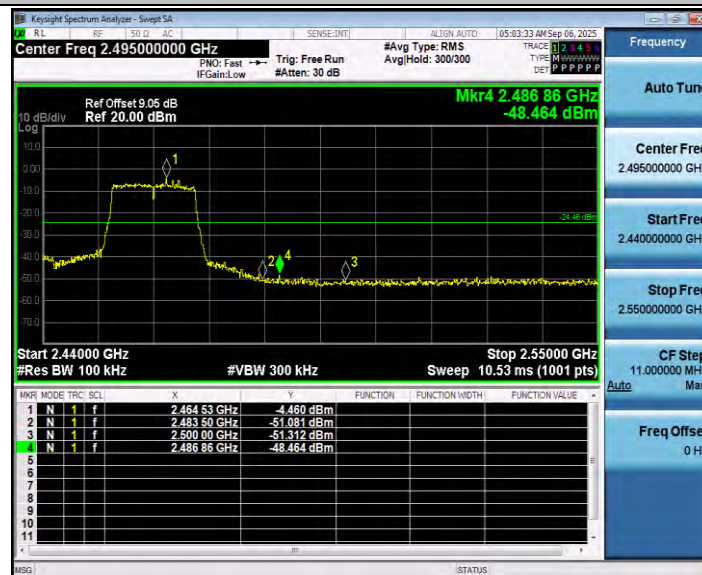
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	0.31	-36.46	≤ -19.69	PASS
		High	2462	-1.12	-32.24	≤ -21.12	PASS
11G	Ant1	Low	2412	-3.24	-36.61	≤ -23.24	PASS
		High	2462	-4.46	-48.46	≤ -24.46	PASS
11N20SISO	Ant1	Low	2412	-3.32	-36.19	≤ -23.32	PASS
		High	2462	-4.52	-30.83	≤ -24.52	PASS

Test Graphs

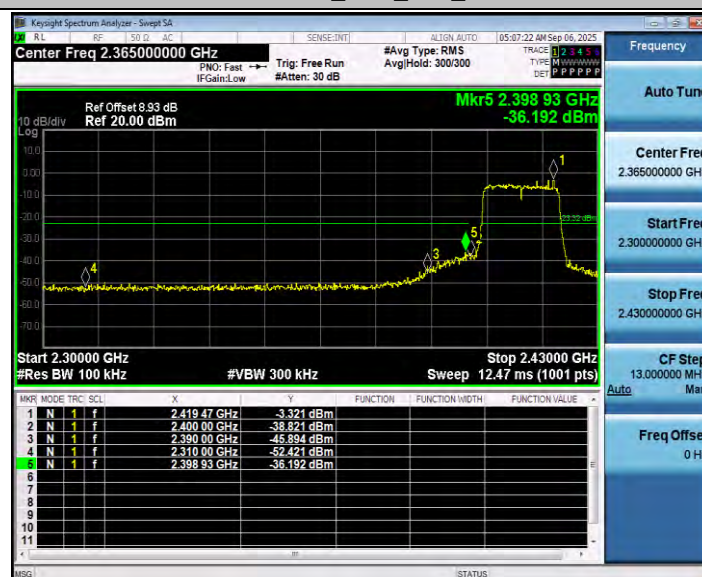


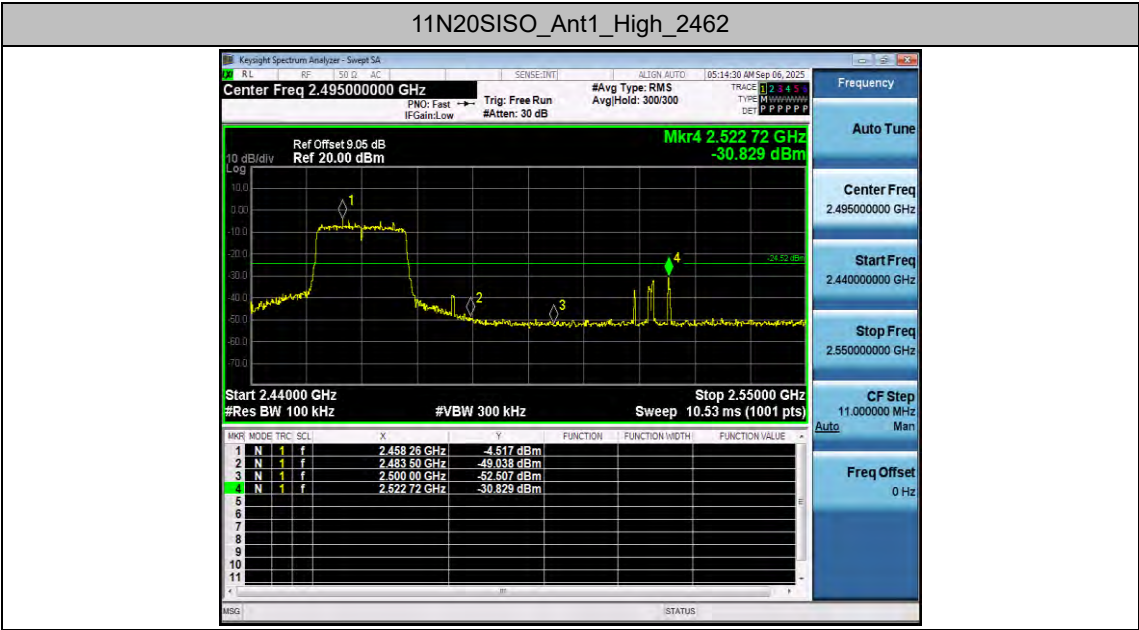


11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



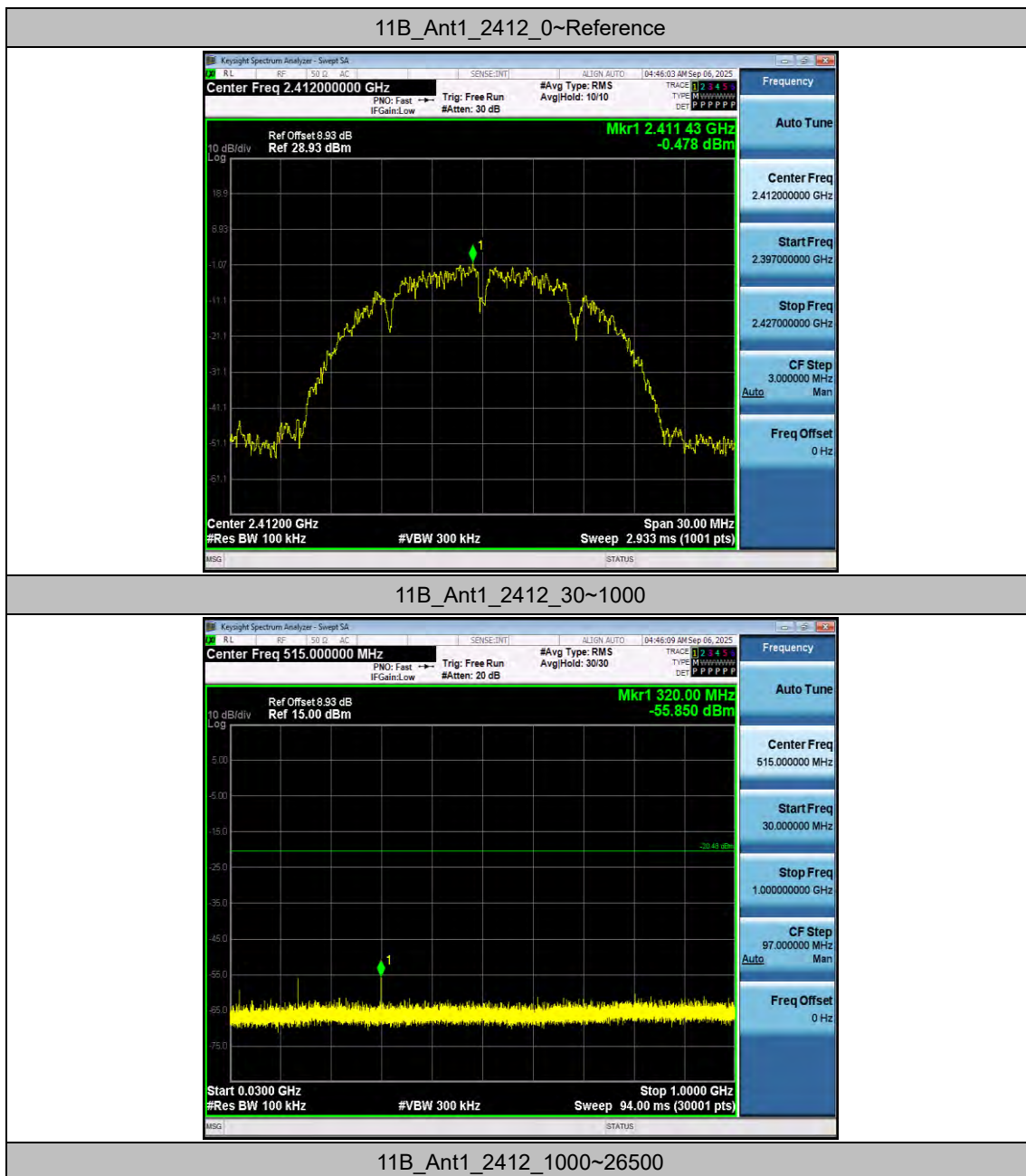


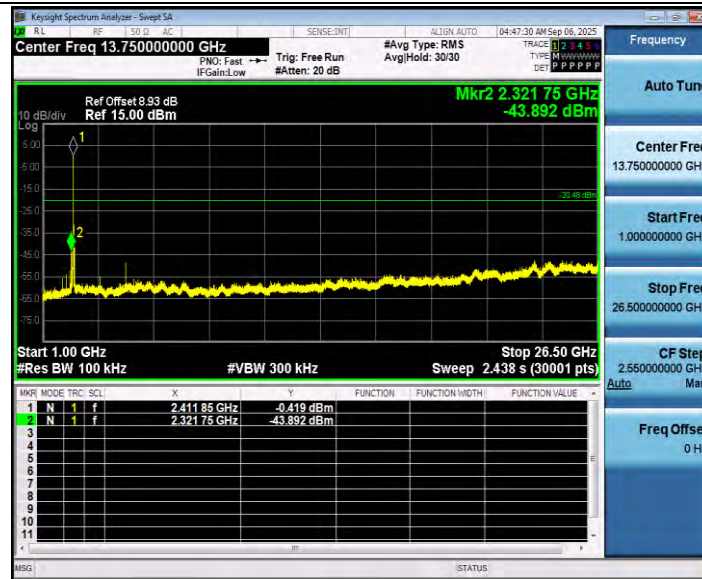
Appendix A.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-0.48	-0.48	---	PASS
			30~1000	-0.48	-55.85	≤ -20.48	PASS
			1000~26500	-0.48	-43.89	≤ -20.48	PASS
		2437	Reference	-0.46	-0.46	---	PASS
			30~1000	-0.46	-55.13	≤ -20.46	PASS
			1000~26500	-0.46	-38.63	≤ -20.46	PASS
		2462	Reference	-1.66	-1.66	---	PASS
			30~1000	-1.66	-56.58	≤ -21.66	PASS
			1000~26500	-1.66	-36.24	≤ -21.66	PASS
11G	Ant1	2412	Reference	-5.64	-5.64	---	PASS
			30~1000	-5.64	-59.92	≤ -25.64	PASS
			1000~26500	-5.64	-47.64	≤ -25.64	PASS
		2437	Reference	-6.08	-6.08	---	PASS
			30~1000	-6.08	-59.57	≤ -26.08	PASS
			1000~26500	-6.08	-28.67	≤ -26.08	PASS
		2462	Reference	-7.60	-7.60	---	PASS
			30~1000	-7.60	-57.88	≤ -27.6	PASS
			1000~26500	-7.60	-44.59	≤ -27.6	PASS
11N20SISO	Ant1	2412	Reference	-3.10	-3.10	---	PASS
			30~1000	-3.10	-58.86	≤ -23.1	PASS
			1000~26500	-3.10	-47.01	≤ -23.1	PASS
		2437	Reference	-6.54	-6.54	---	PASS
			30~1000	-6.54	-57.53	≤ -26.54	PASS
			1000~26500	-6.54	-41.37	≤ -26.54	PASS
		2462	Reference	-7.41	-7.41	---	PASS
			30~1000	-7.41	-59.14	≤ -27.41	PASS
			1000~26500	-7.41	-27.86	≤ -27.41	PASS

Test Graphs

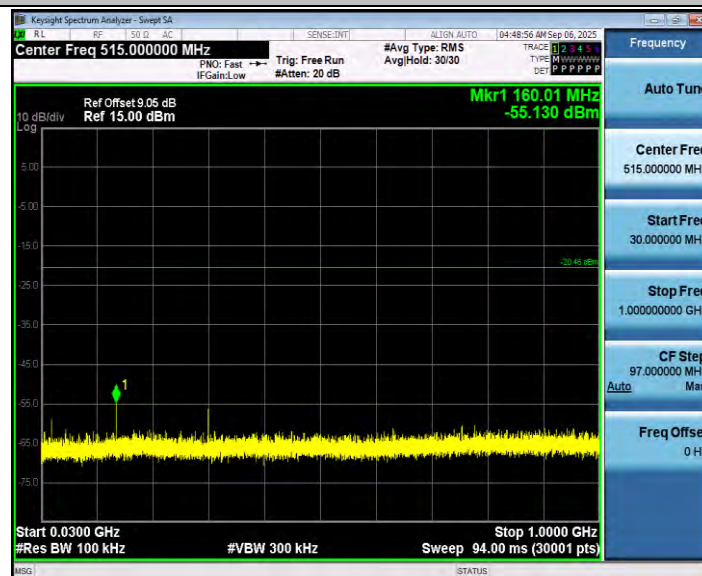




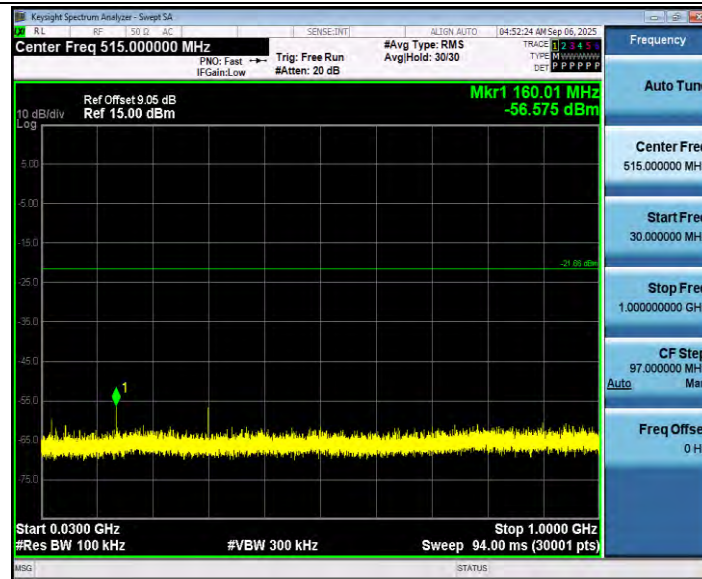
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000





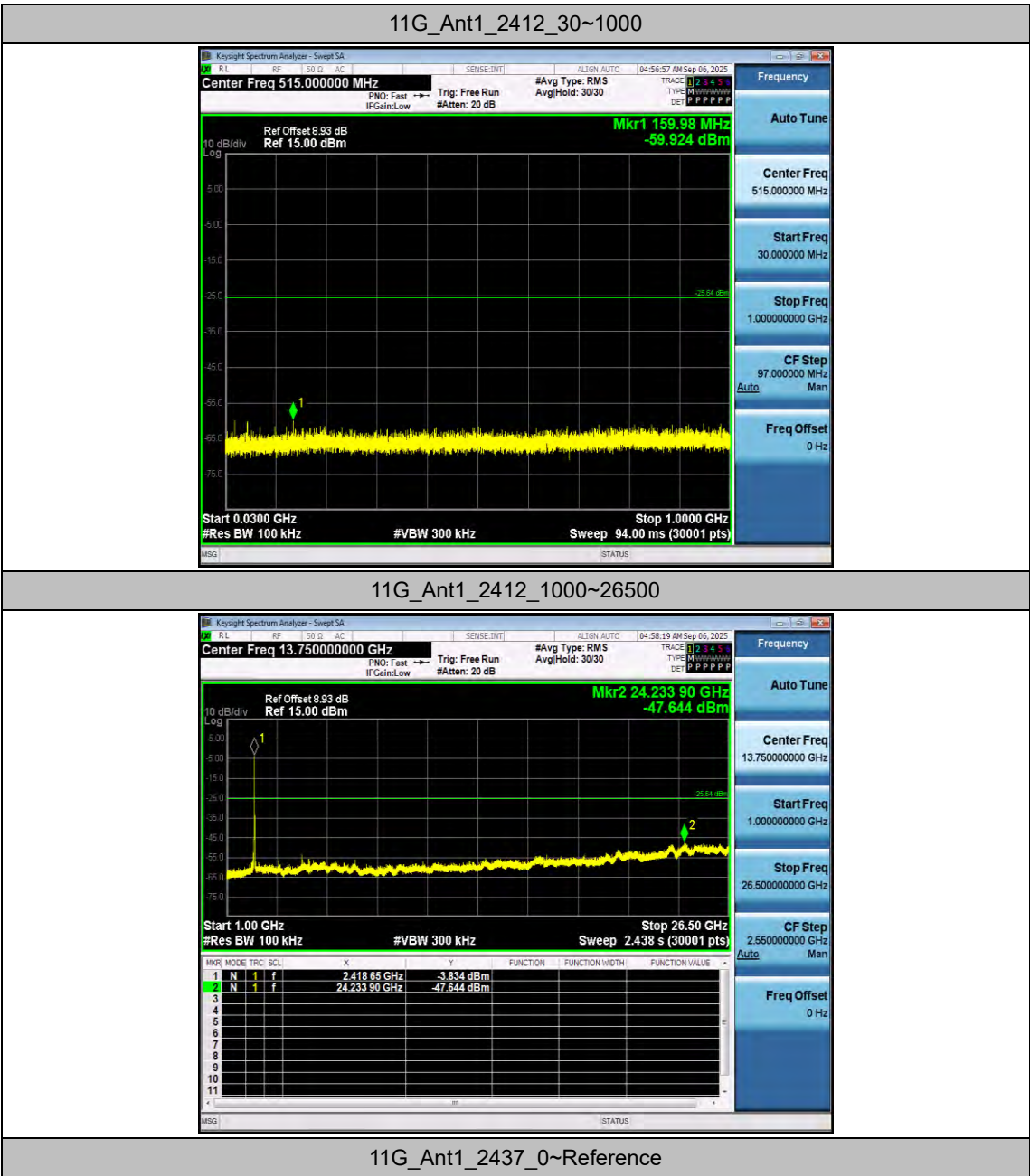


11B_Ant1_2462_1000~26500



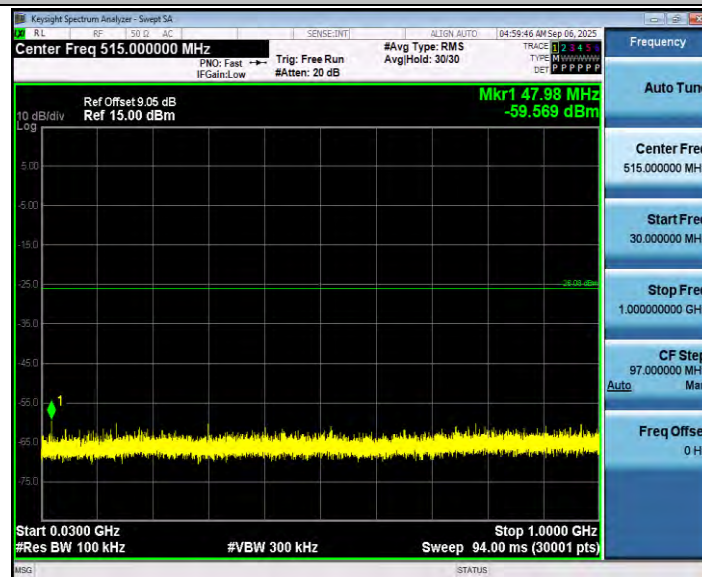
11G_Ant1_2412_0~Reference



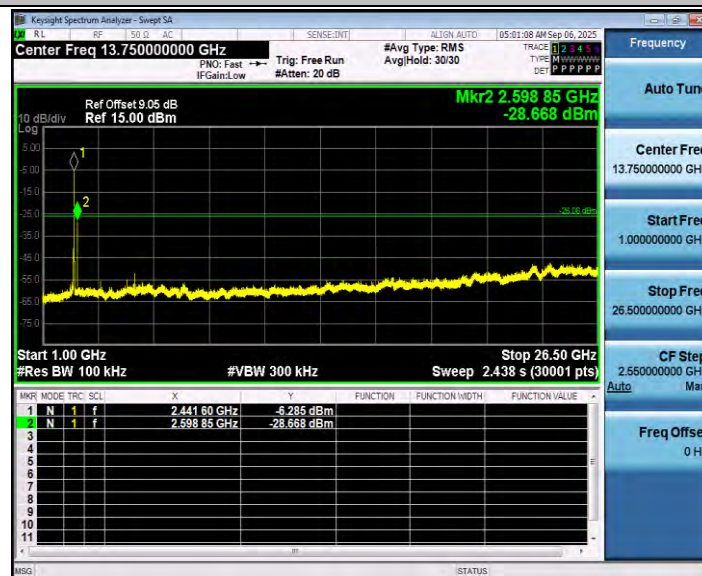




11G_Ant1_2437_30~1000



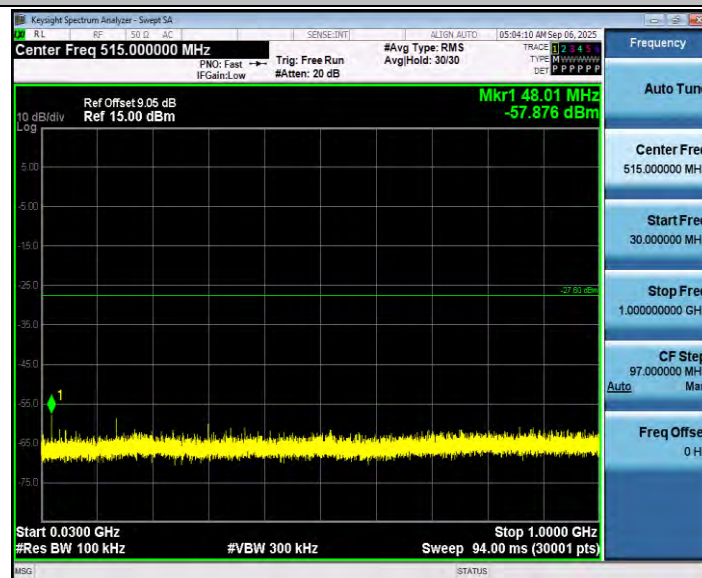
11G_Ant1_2437_1000~26500



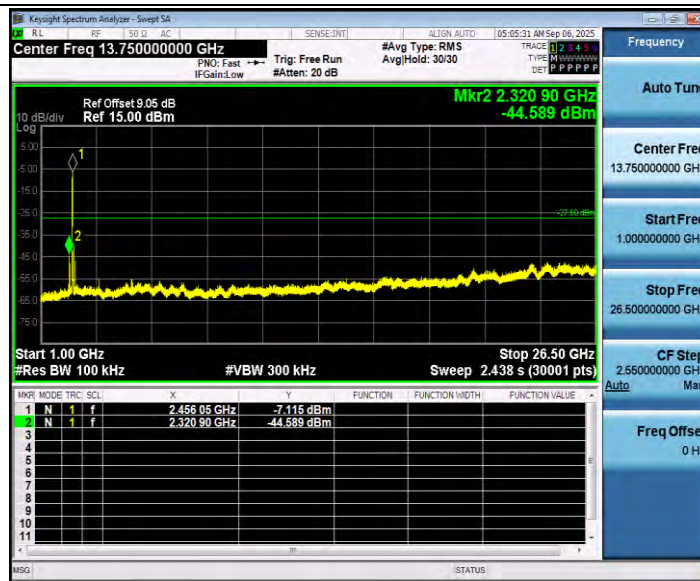
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



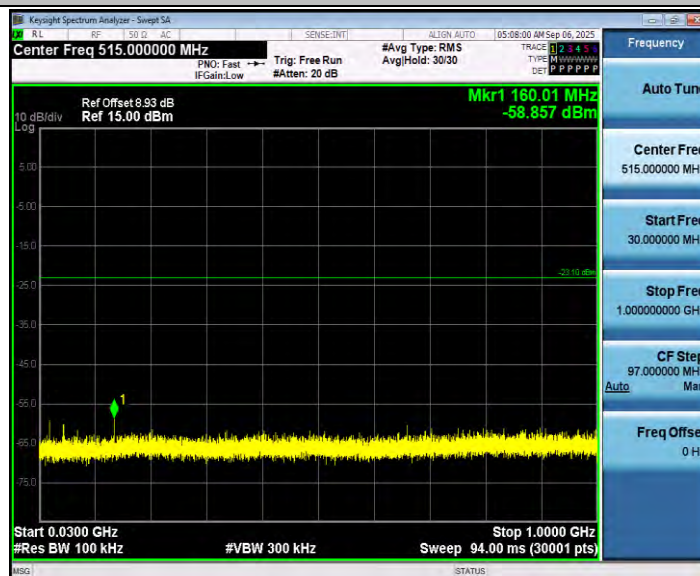
11G_Ant1_2462_1000~26500



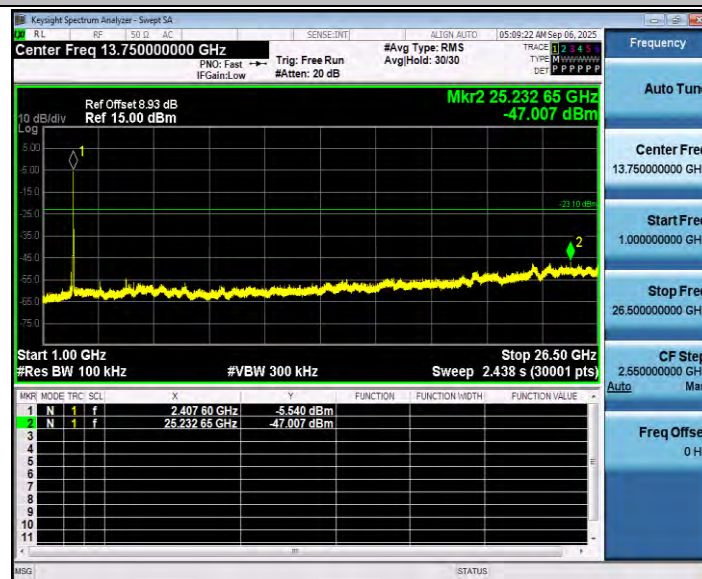
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



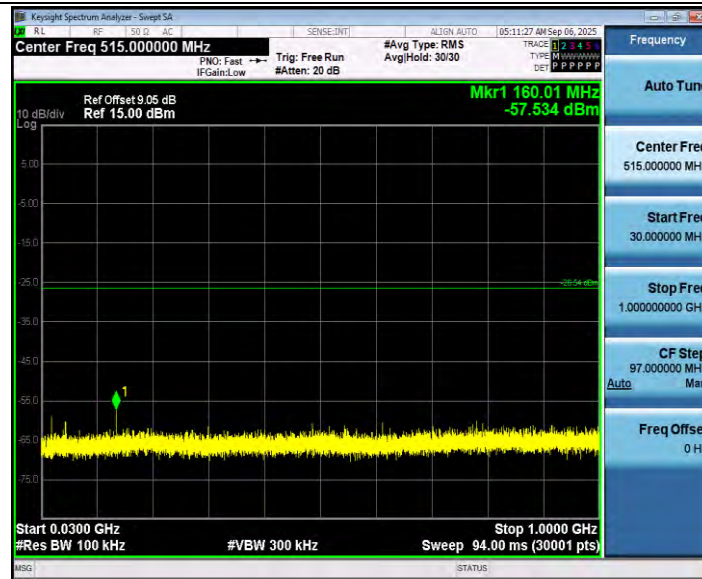
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

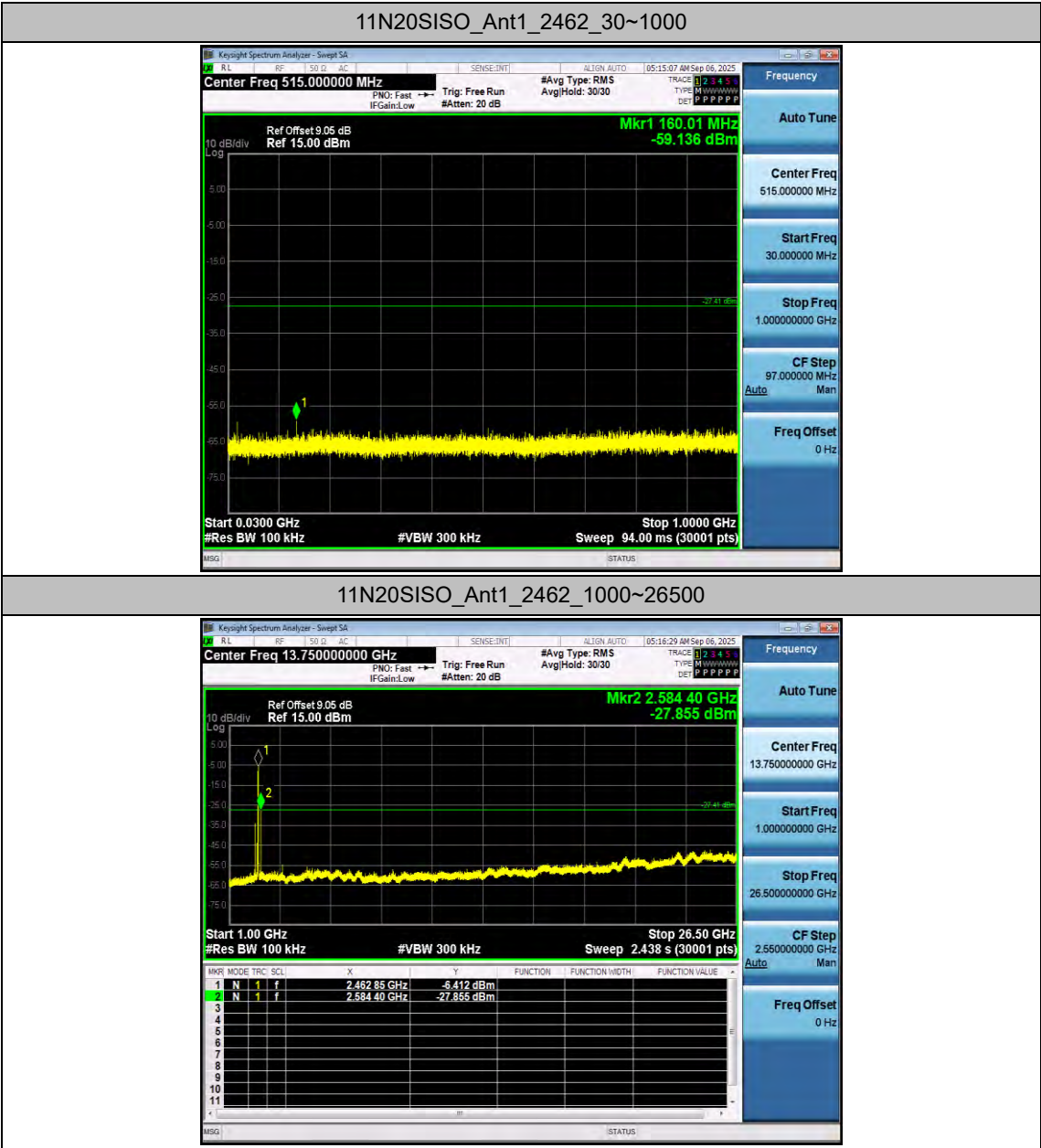


11N20SISO_Ant1_2437_1000~26500



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	11.39	14.21	80.15	0.96	0.09
		2437	11.40	18.09	63.02	2.01	0.09
		2462	11.39	14.22	80.10	0.96	0.09
11G	Ant1	2412	1.89	2.39	79.08	1.02	0.53
		2437	1.89	2.39	79.08	1.02	0.53
		2462	1.89	2.39	79.08	1.02	0.53
11N20SISO	Ant1	2412	1.76	2.22	79.28	1.01	0.57
		2437	1.77	2.23	79.37	1.00	0.56
		2462	1.76	2.22	79.28	1.01	0.57

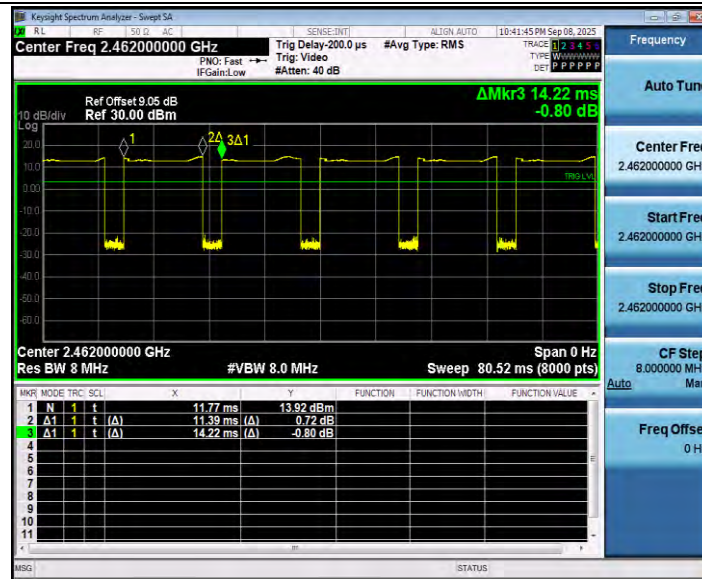
Test Graphs



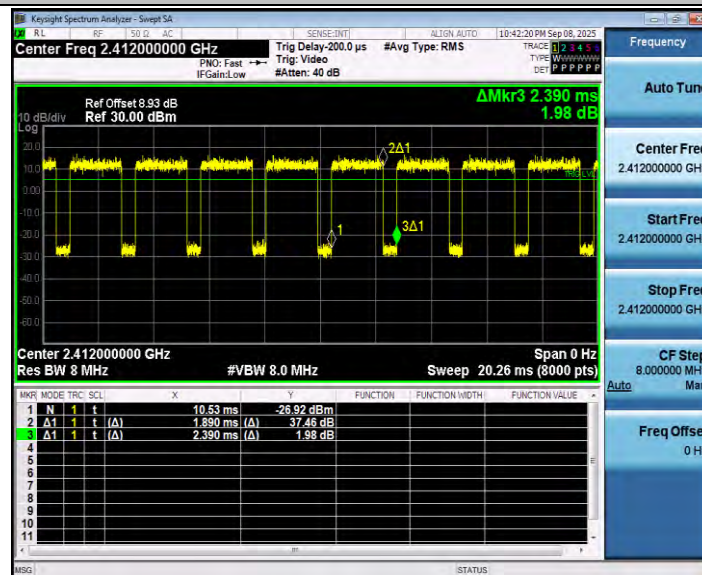
11B_Ant1_2437

Frequency
Auto Tune
Center Freq 2.437000000 GHz
Start Freq 2.437000000 GHz
Stop Freq 2.437000000 GHz
CF Step 8.000000 MHz
Freq Offset 0 Hz

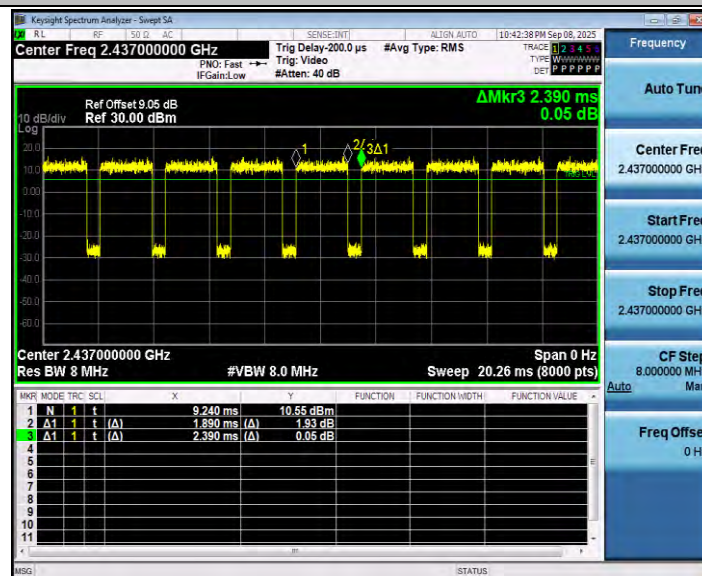
11B_Ant1_2462



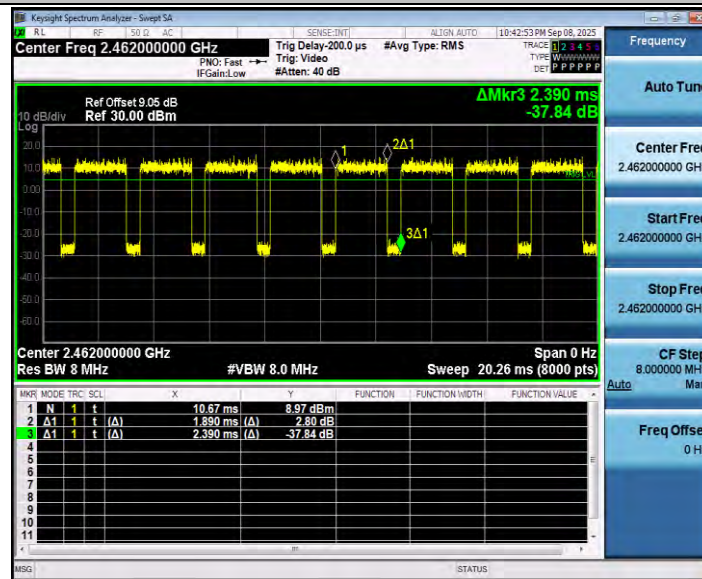
11G_Ant1_2412



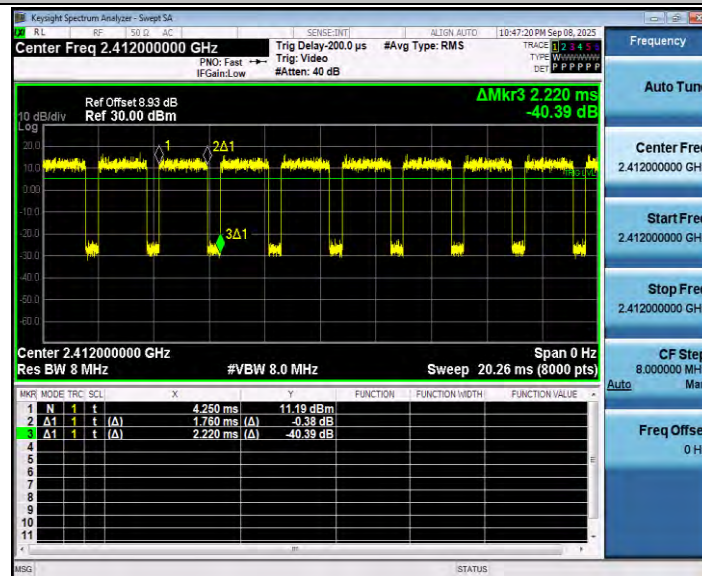
11G_Ant1_2437



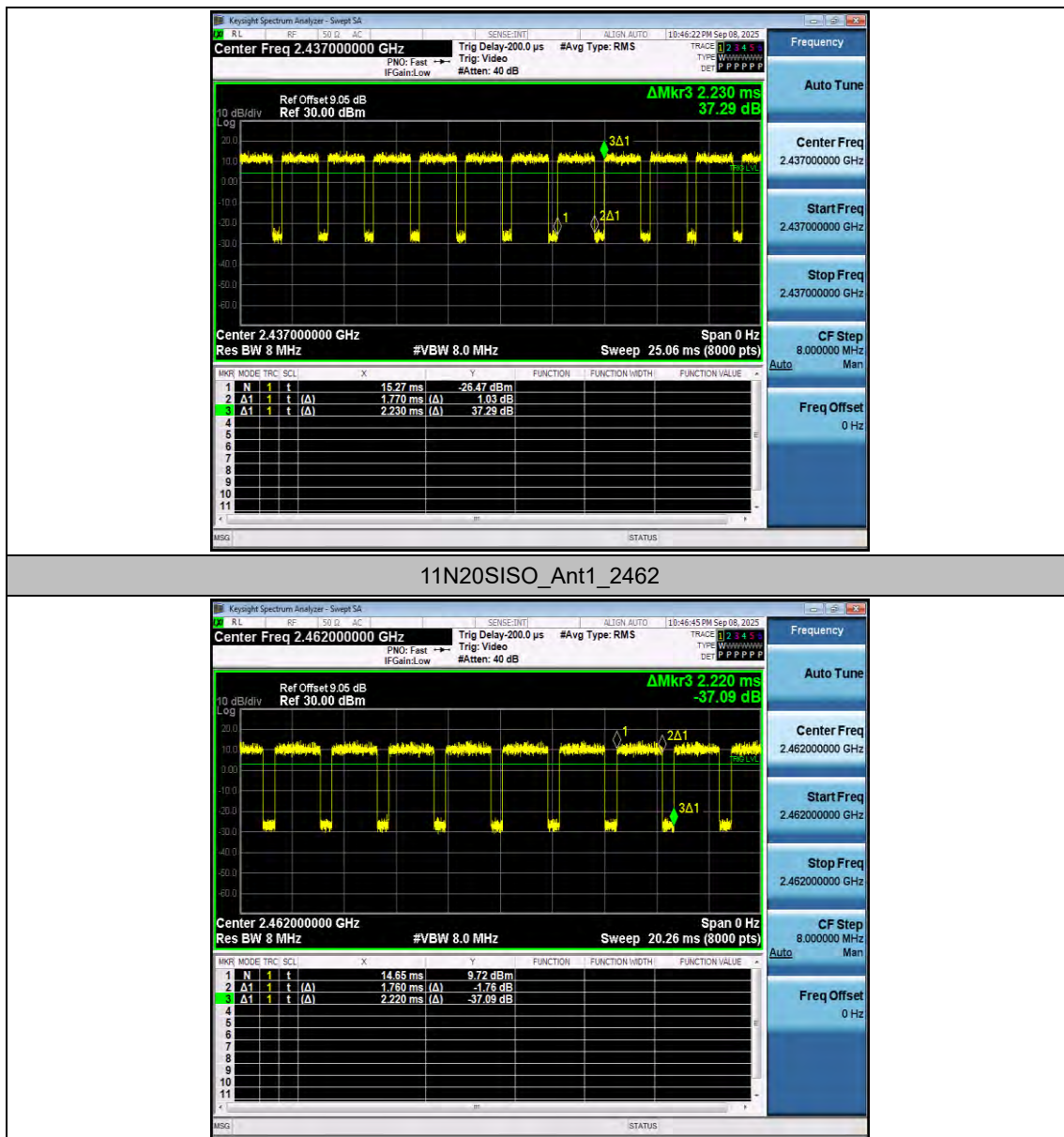
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



Appendix A.8: Emissions in Restricted Bands

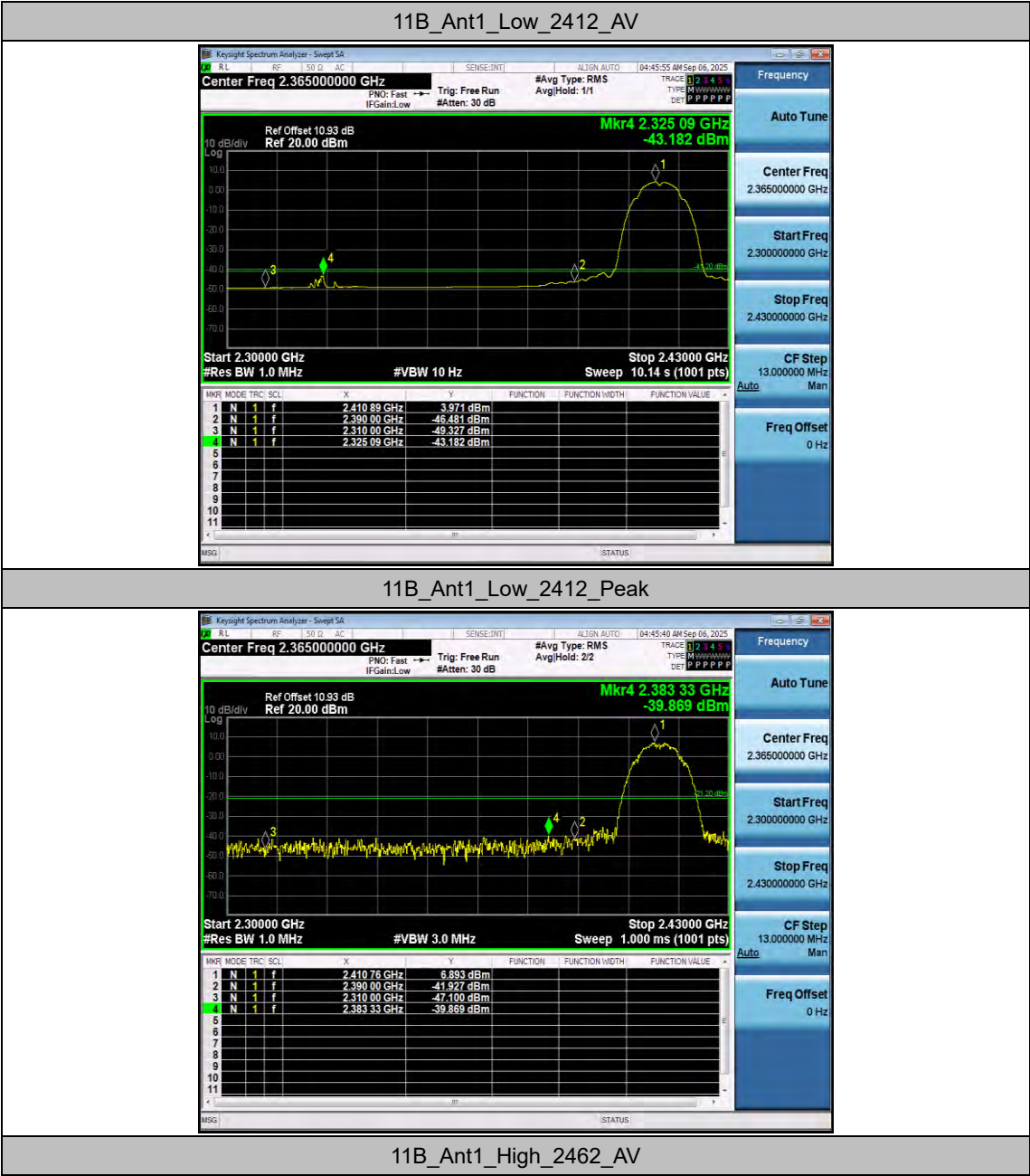
Test Result

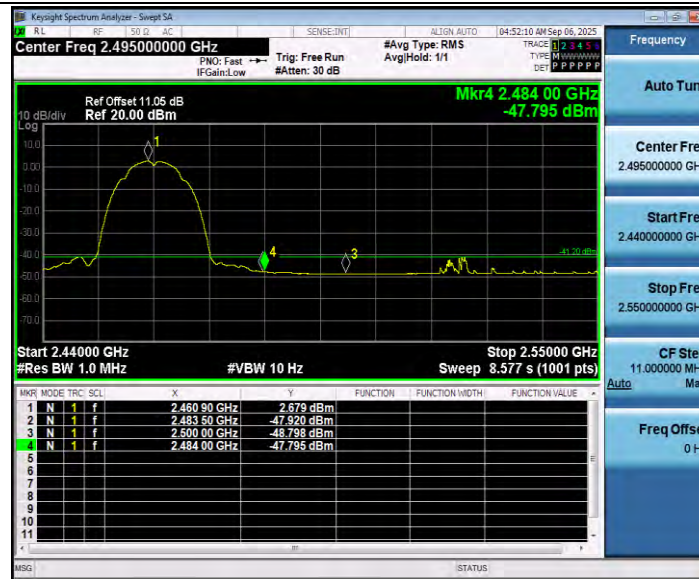
TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.33	≤-41.20	45.87	≤54	PASS
				AV	2325.090	-43.18	≤-41.20	52.02	≤54	PASS
				AV	2390.000	-46.48	≤-41.20	48.72	≤54	PASS
				Peak	2310.000	-47.1	≤-21.20	48.10	≤74	PASS
				Peak	2383.330	-39.87	≤-21.20	55.33	≤74	PASS
				Peak	2390.000	-41.93	≤-21.20	53.27	≤74	PASS
		High	2462	AV	2483.500	-47.92	≤-41.20	47.28	≤54	PASS
				AV	2484.000	-47.8	≤-41.20	47.40	≤54	PASS
				AV	2500.000	-48.8	≤-41.20	46.40	≤54	PASS
				Peak	2483.500	-46.7	≤-21.20	48.50	≤74	PASS
				Peak	2487.300	-41.23	≤-21.20	53.97	≤74	PASS
				Peak	2500.000	-44.57	≤-21.20	50.63	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.44	≤-41.20	45.76	≤54	PASS
				AV	2326.000	-41.97	≤-41.20	53.23	≤54	PASS
				AV	2390.000	-44.26	≤-41.20	50.94	≤54	PASS
				Peak	2310.000	-46.79	≤-21.20	48.41	≤74	PASS
				Peak	2389.830	-38.07	≤-21.20	57.13	≤74	PASS
				Peak	2390.000	-38.18	≤-21.20	57.02	≤74	PASS
		High	2462	AV	2483.500	-47.24	≤-41.20	47.96	≤54	PASS
				AV	2483.560	-47.29	≤-41.20	47.91	≤54	PASS
				AV	2500.000	-48.84	≤-41.20	46.36	≤54	PASS
				Peak	2483.500	-44.22	≤-21.20	50.98	≤74	PASS
				Peak	2486.860	-39.96	≤-21.20	55.24	≤74	PASS
				Peak	2500.000	-48.92	≤-21.20	46.28	≤74	PASS
11N20SISO	Ant1	Low	2412	AV	2310.000	-49.48	≤-41.20	45.72	≤54	PASS
				AV	2389.960	-42.93	≤-41.20	52.27	≤54	PASS
				AV	2390.000	-42.93	≤-41.20	52.27	≤54	PASS
				Peak	2310.000	-46.36	≤-21.20	48.84	≤74	PASS
				Peak	2389.310	-38.57	≤-21.20	56.63	≤74	PASS
				Peak	2390.000	-38.8	≤-21.20	56.40	≤74	PASS
		High	2462	AV	2483.500	-46.76	≤-41.20	48.44	≤54	PASS
				AV	2483.560	-46.82	≤-41.20	48.38	≤54	PASS
				AV	2500.000	-48.83	≤-41.20	46.37	≤54	PASS
				Peak	2483.500	-41.67	≤-21.20	53.53	≤74	PASS
				Peak	2495.330	-40.38	≤-21.20	54.82	≤74	PASS
				Peak	2500.000	-46.69	≤-21.20	48.51	≤74	PASS

Note:

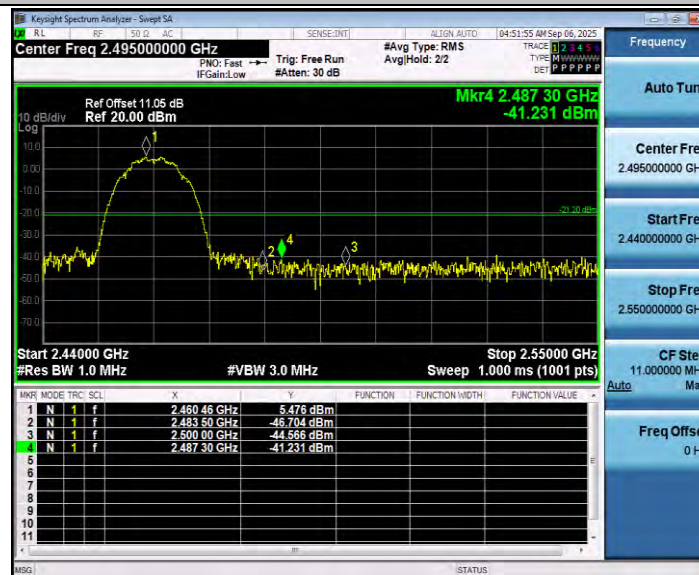
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs





11B_Ant1_High_2462_Peak



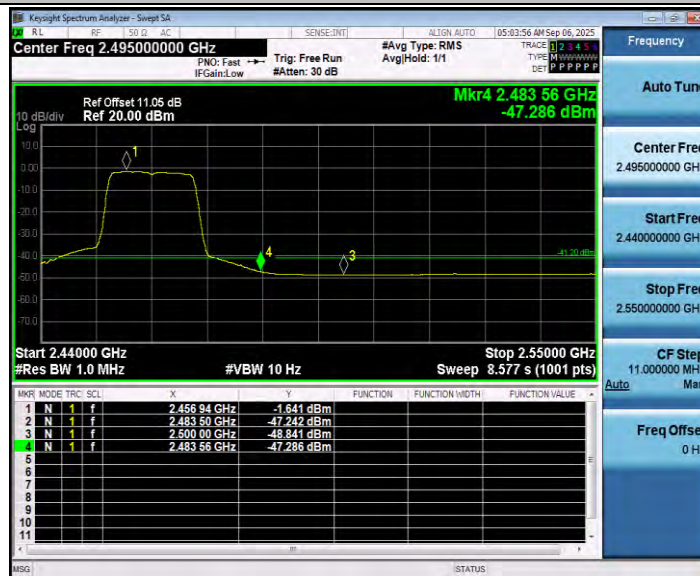
11G_Ant1_Low_2412_AV



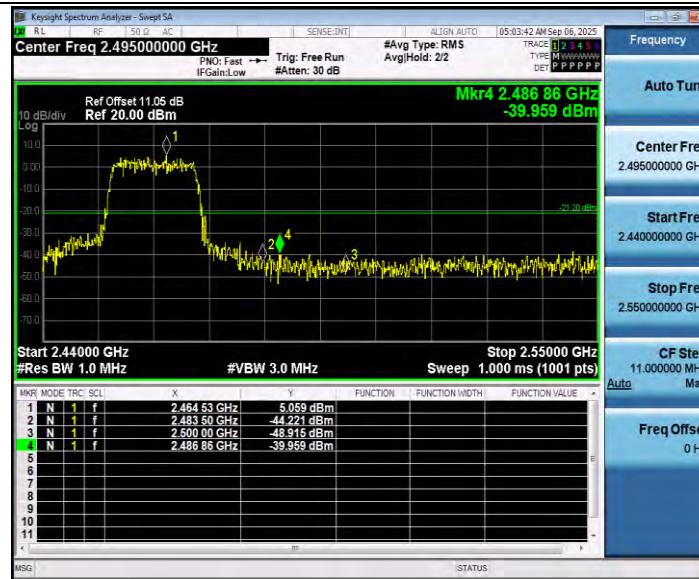
11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV



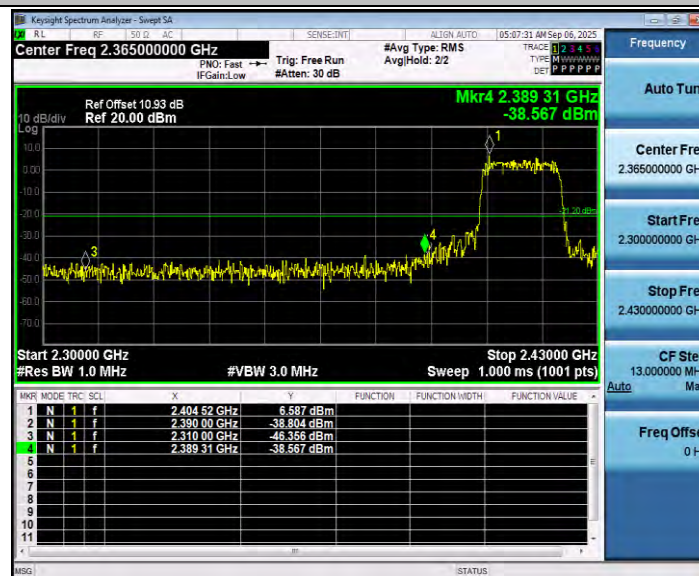
11G_Ant1_High_2462_Peak



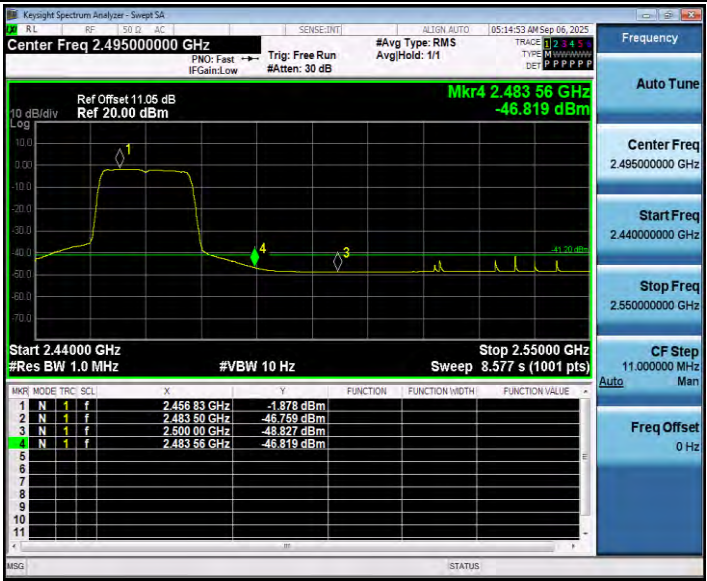
11N20SISO_Ant1_Low_2412_AV



11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak

