

Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BRV5-GDC269-87

Company : Zhejiang New Lianyu Electronics Co., Ltd.

EUT : Instrument & multimedia dual screen

Model Number : GDC269-87-0052

Report No. : CTA25071600503

Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.560	2407.960	2416.520	0.5	PASS
		2437	9.080	2432.480	2441.560	0.5	PASS
		2462	7.880	2458.200	2466.080	0.5	PASS
11G	Ant1	2412	15.720	2404.440	2420.160	0.5	PASS
		2437	16.120	2428.880	2445.000	0.5	PASS
		2462	16.120	2454.040	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.000	2404.400	2420.400	0.5	PASS
		2437	16.840	2428.520	2445.360	0.5	PASS
		2462	16.560	2453.720	2470.280	0.5	PASS
11N40SISO	Ant1	2422	35.520	2404.080	2439.600	0.5	PASS
		2437	35.200	2419.400	2454.600	0.5	PASS
		2452	35.200	2434.400	2469.600	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



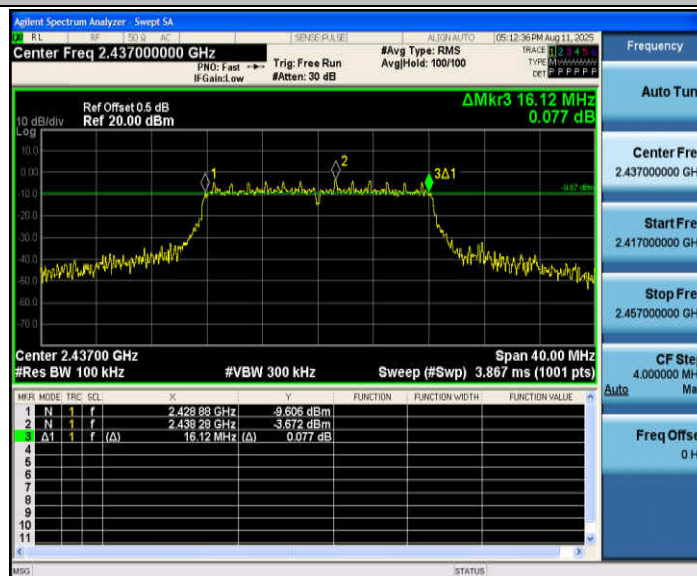
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



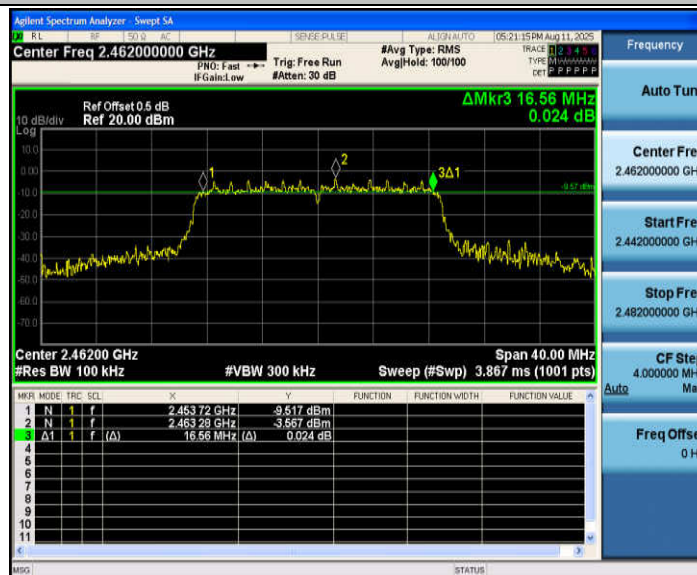
11N20SISO_Ant1_2412



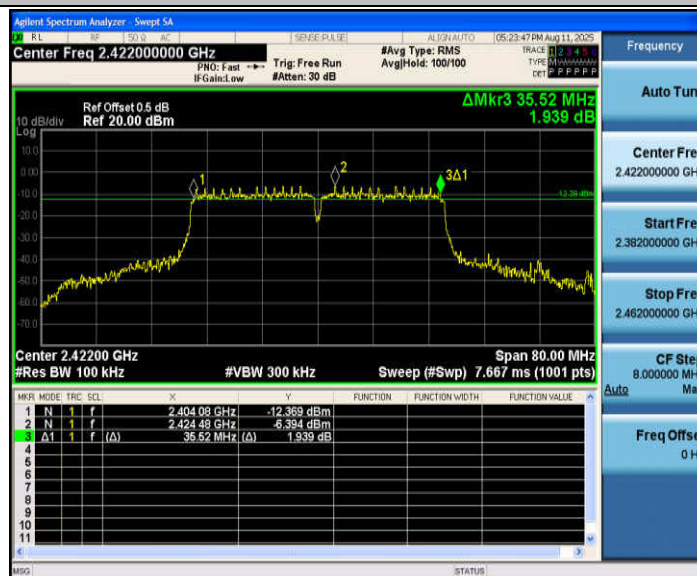
11N20SISO_Ant1_2437



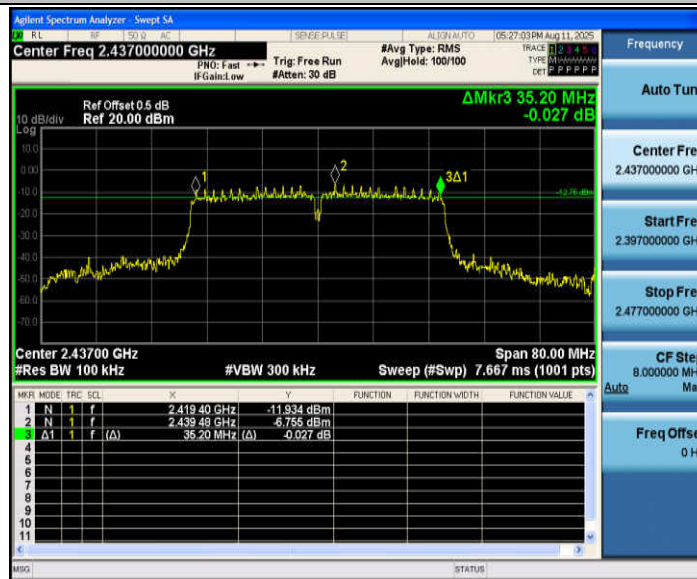
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



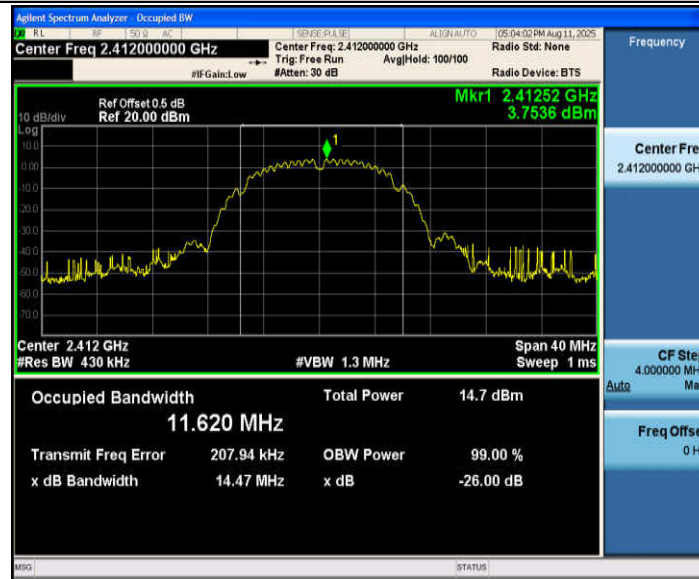
Appendix B: Occupied Channel Bandwidth

Test Result

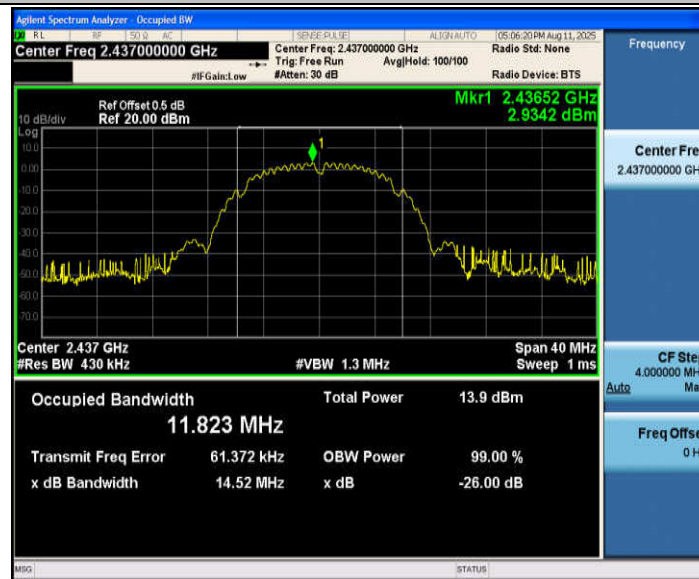
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.620	2406.3979	2418.0179	---	---
		2437	11.823	2431.1499	2442.9729	---	---
		2462	11.787	2456.1715	2467.9585	---	---
11G	Ant1	2412	16.658	2403.7880	2420.4460	---	---
		2437	16.786	2428.6275	2445.4135	---	---
		2462	16.714	2453.7006	2470.4146	---	---
11N20SISO	Ant1	2412	17.617	2403.3337	2420.9507	---	---
		2437	17.722	2428.1357	2445.8577	---	---
		2462	17.633	2453.2431	2470.8761	---	---
11N40SISO	Ant1	2422	36.180	2404.0330	2440.2130	---	---
		2437	36.275	2418.9108	2455.1858	---	---
		2452	36.118	2433.9585	2470.0765	---	---

Test Graphs

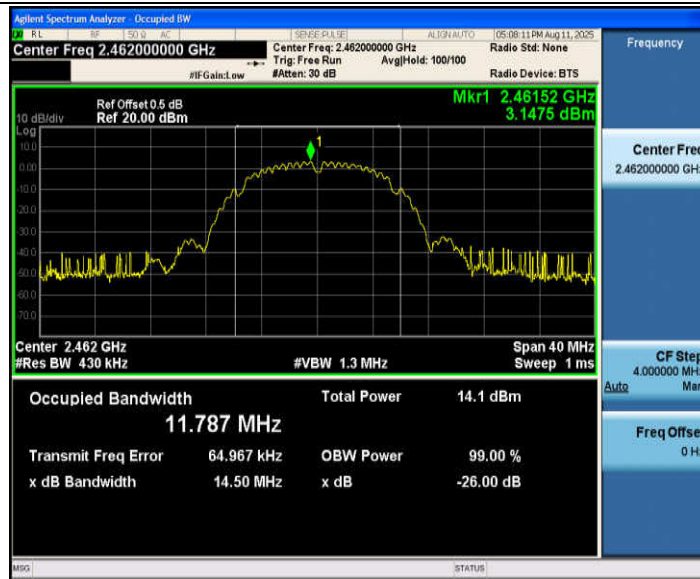
11B_Ant1_2412



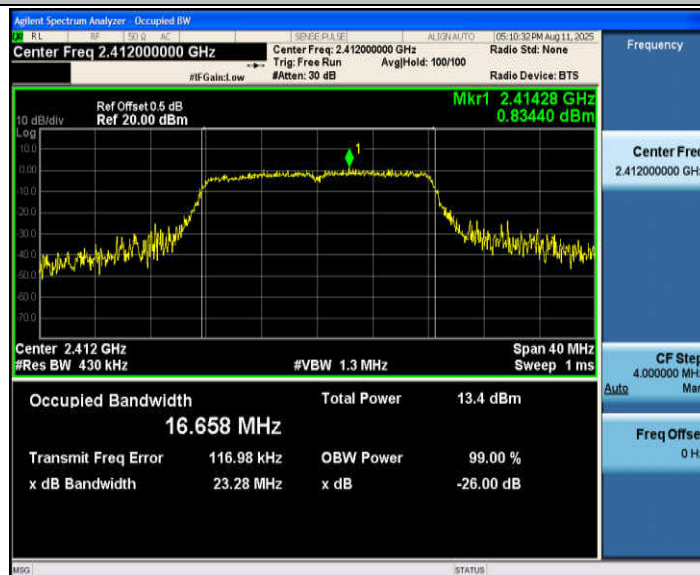
11B_Ant1_2437



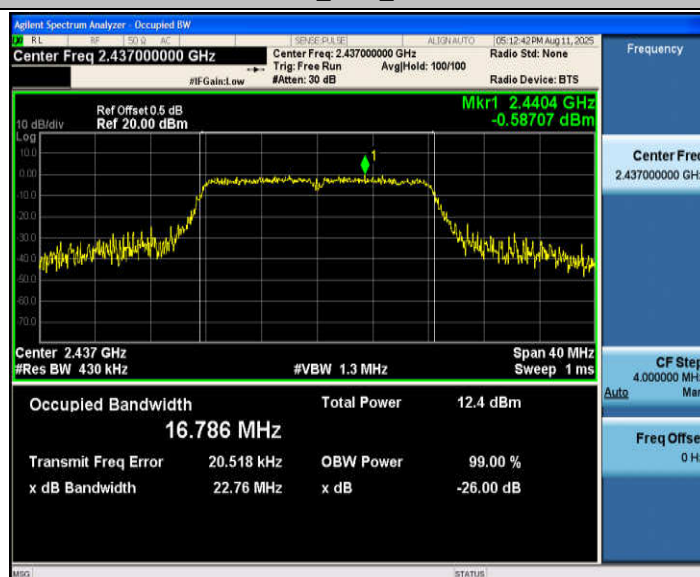
11B_Ant1_2462



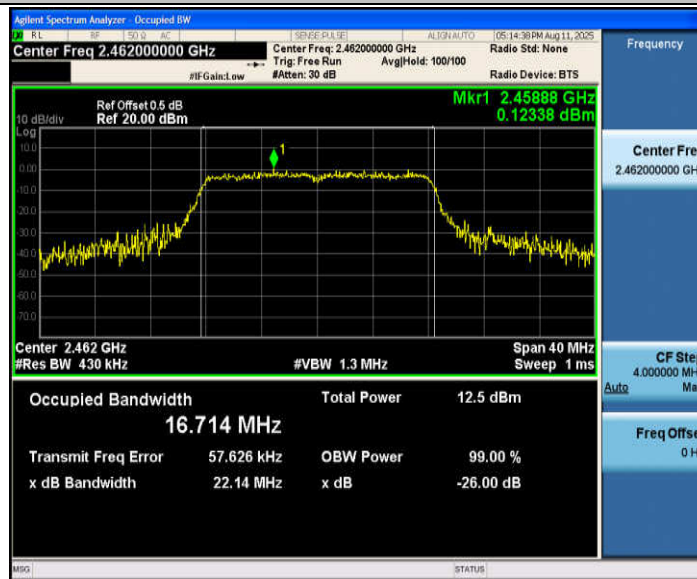
11G_Ant1_2412



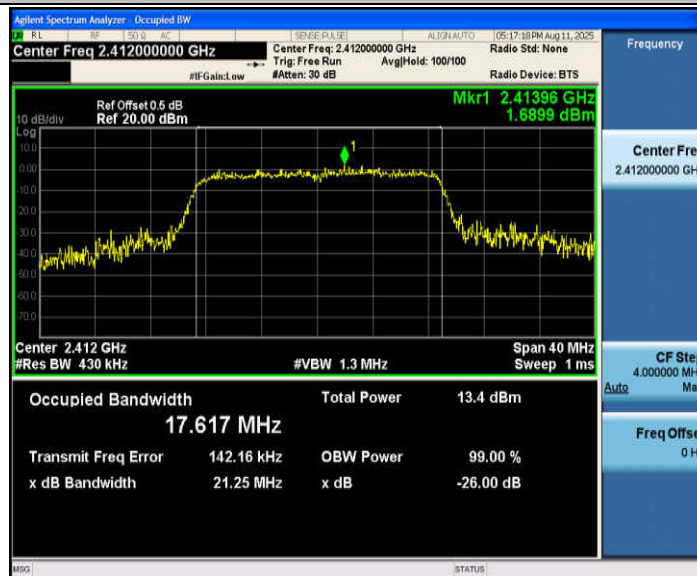
11G_Ant1_2437



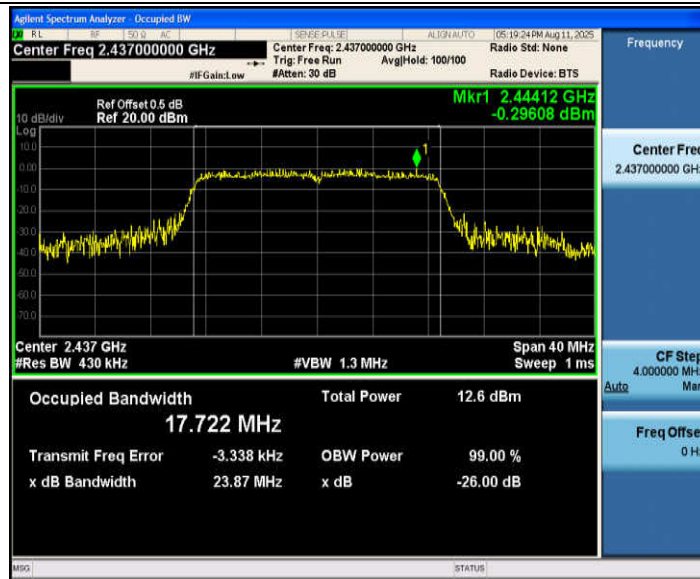
11G_Ant1_2462



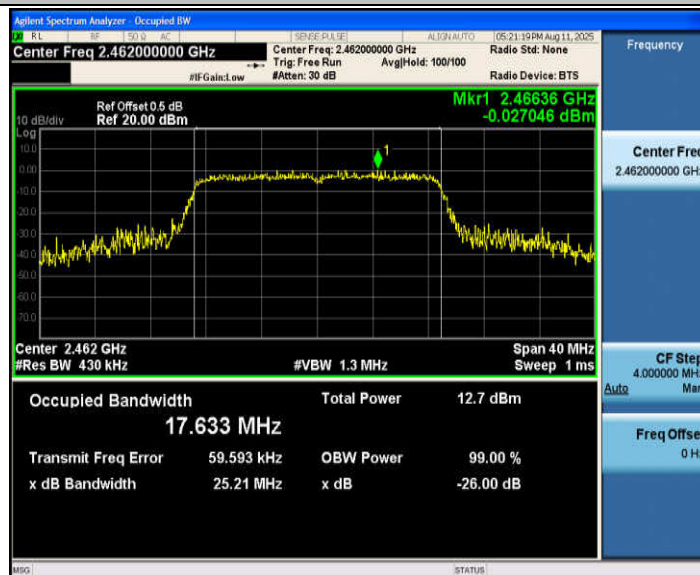
11N20SISO_Ant1_2412



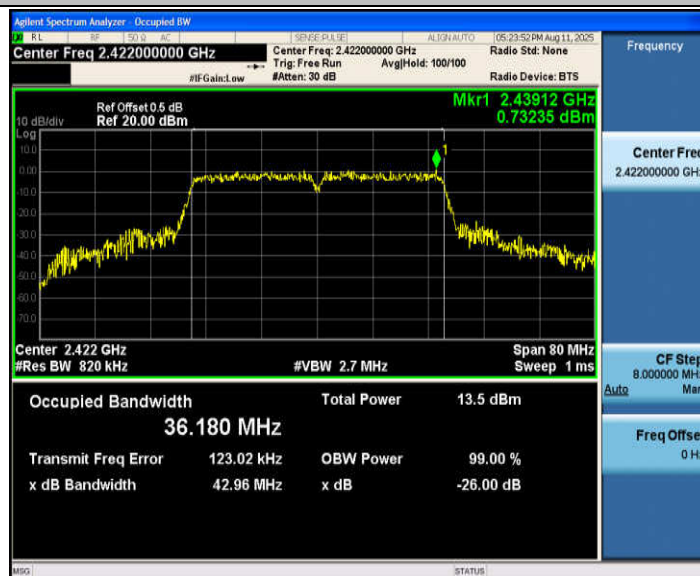
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



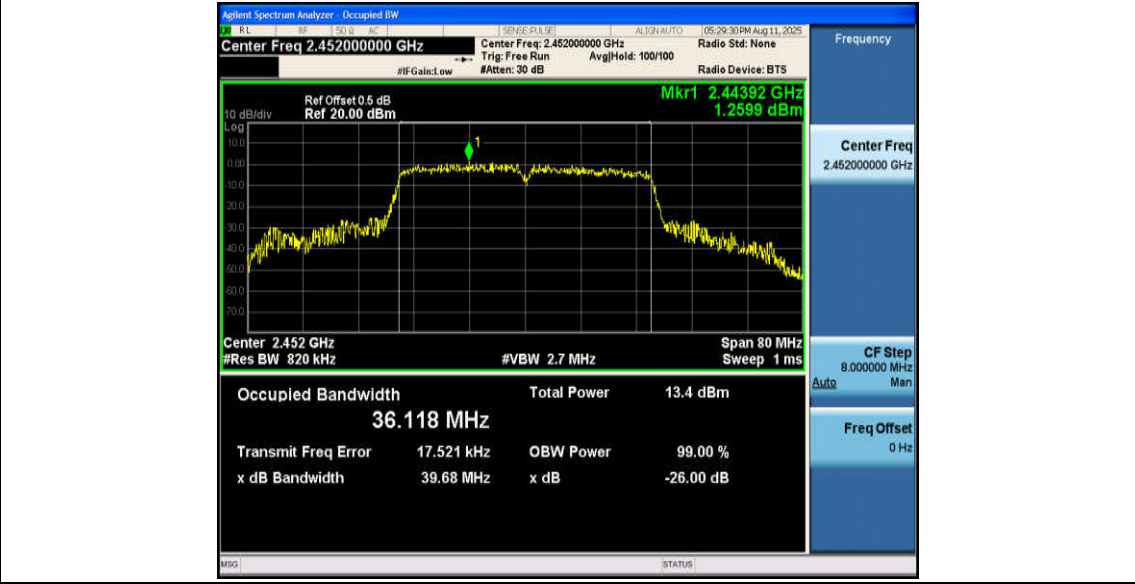
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.51	≤30.00	PASS
		2437	13.84	≤30.00	PASS
		2462	13.68	≤30.00	PASS
11G	Ant1	2412	14.21	≤30.00	PASS
		2437	13.16	≤30.00	PASS
		2462	13.20	≤30.00	PASS
11N20SISO	Ant1	2412	14.10	≤30.00	PASS
		2437	13.36	≤30.00	PASS
		2462	13.55	≤30.00	PASS
11N40SISO	Ant1	2422	13.69	≤30.00	PASS
		2437	12.81	≤30.00	PASS
		2452	13.68	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.11	≤8.00	PASS
		2437	-10.47	≤8.00	PASS
		2462	-11.54	≤8.00	PASS
11G	Ant1	2412	-17.23	≤8.00	PASS
		2437	-18.18	≤8.00	PASS
		2462	-19.07	≤8.00	PASS
11N20SISO	Ant1	2412	-18.21	≤8.00	PASS
		2437	-18.11	≤8.00	PASS
		2462	-18.89	≤8.00	PASS
11N40SISO	Ant1	2422	-21.13	≤8.00	PASS
		2437	-21.65	≤8.00	PASS
		2452	-19.57	≤8.00	PASS

Test Graphs

11B_Ant1_2412



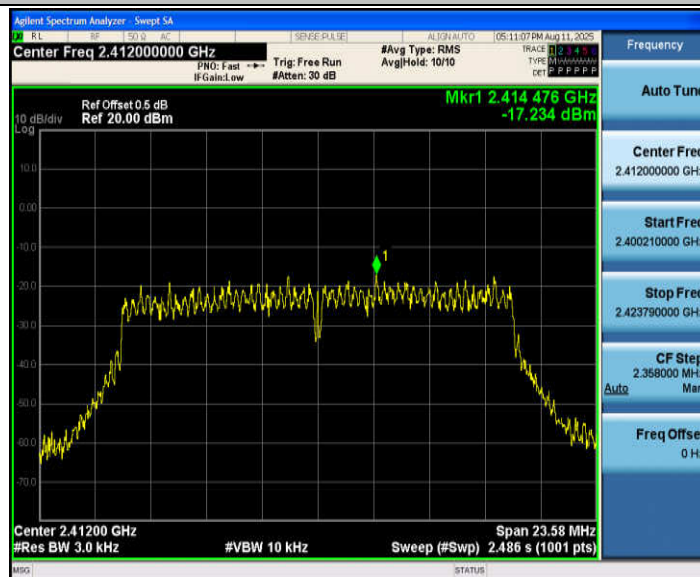
11B_Ant1_2437



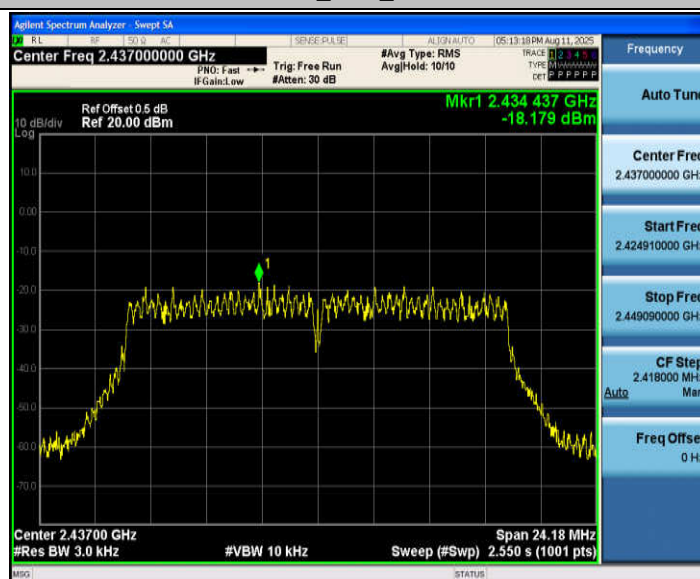
11B_Ant1_2462



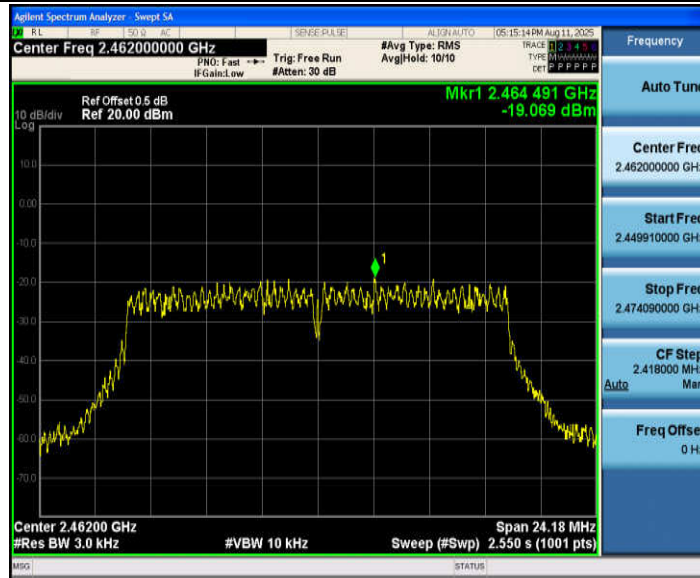
11G_Ant1_2412



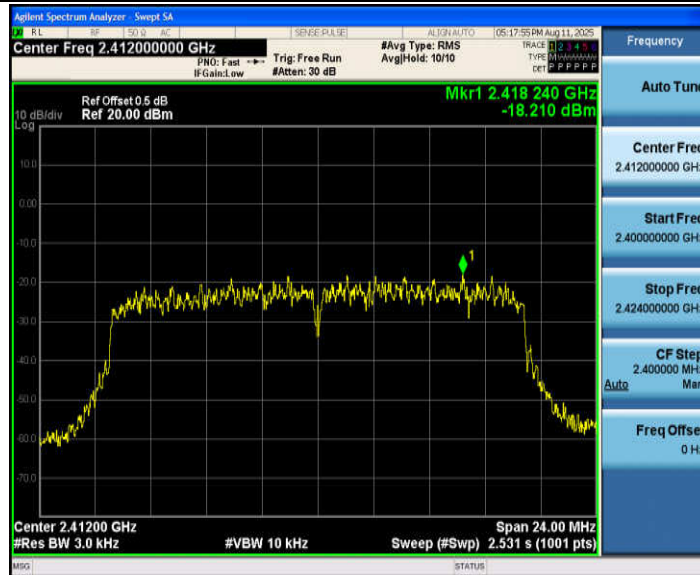
11G_Ant1_2437



11G_Ant1_2462



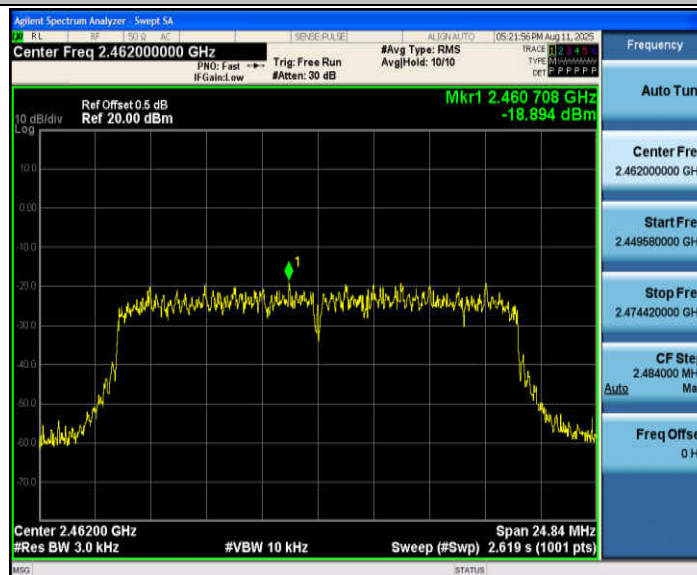
11N20SISO_Ant1_2412



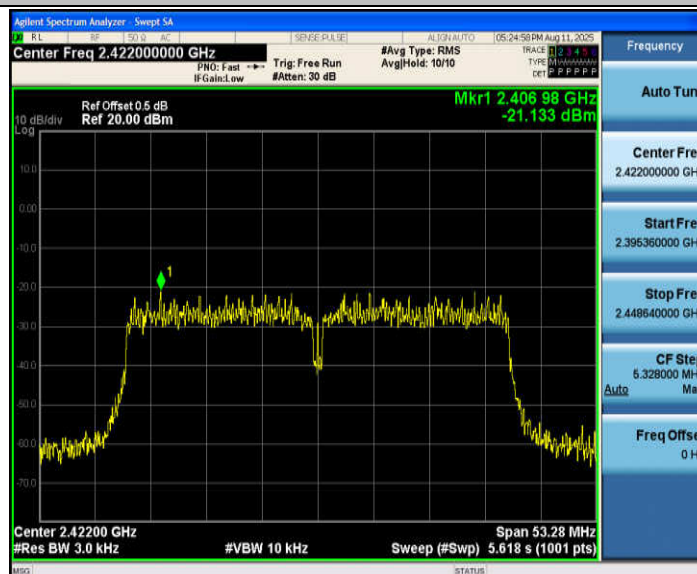
11N20SISO_Ant1_2437



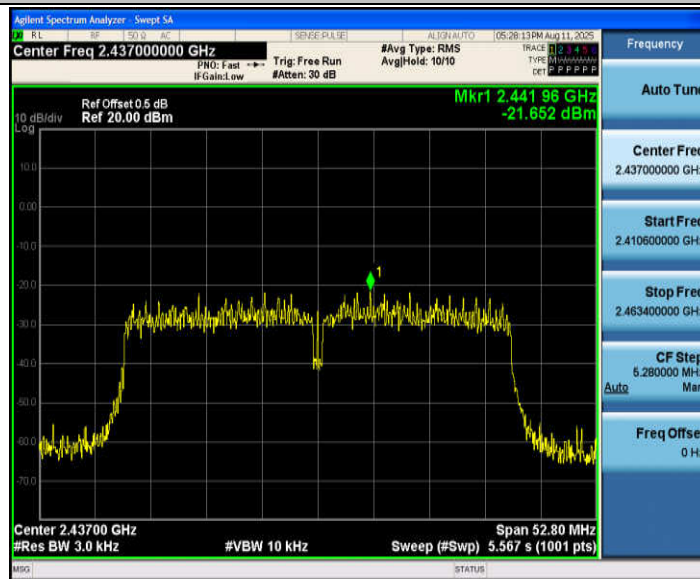
11N20SISO_Ant1_2462



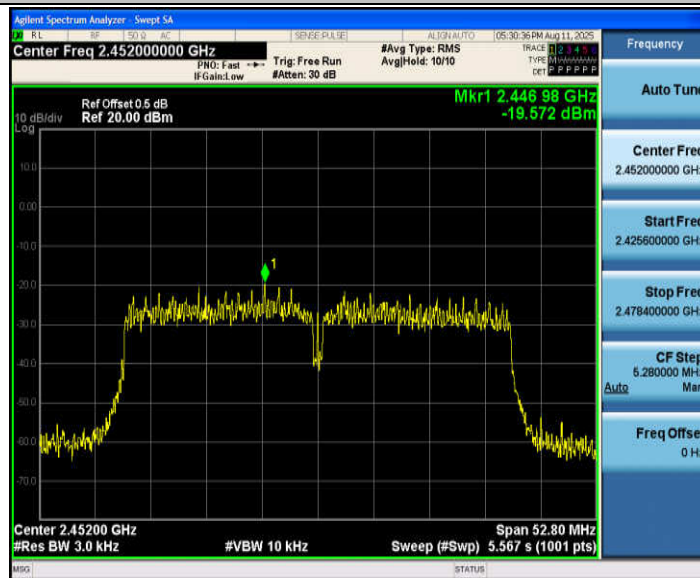
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



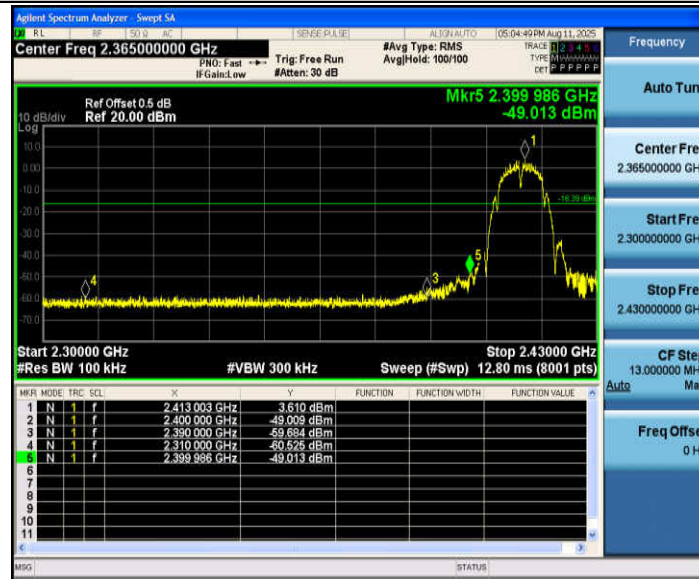
Appendix E: Band edge measurements

Test Result

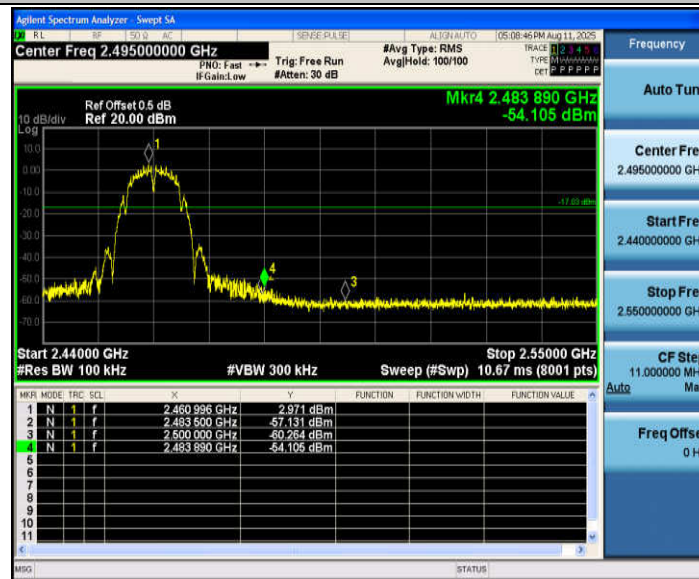
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.61	-49.01	≤-16.39	PASS
		High	2462	2.97	-54.11	≤-17.03	PASS
11G	Ant1	Low	2412	-2.49	-36.84	≤-22.49	PASS
		High	2462	-3.57	-49.45	≤-23.57	PASS
11N20SISO	Ant1	Low	2412	-2.56	-38.57	≤-22.56	PASS
		High	2462	-3.56	-44.95	≤-23.56	PASS
11N40SISO	Ant1	Low	2422	-6.34	-39.19	≤-26.34	PASS
		High	2452	-5.88	-48.33	≤-25.88	PASS

Test Graphs

11B_Ant1_Low_2412



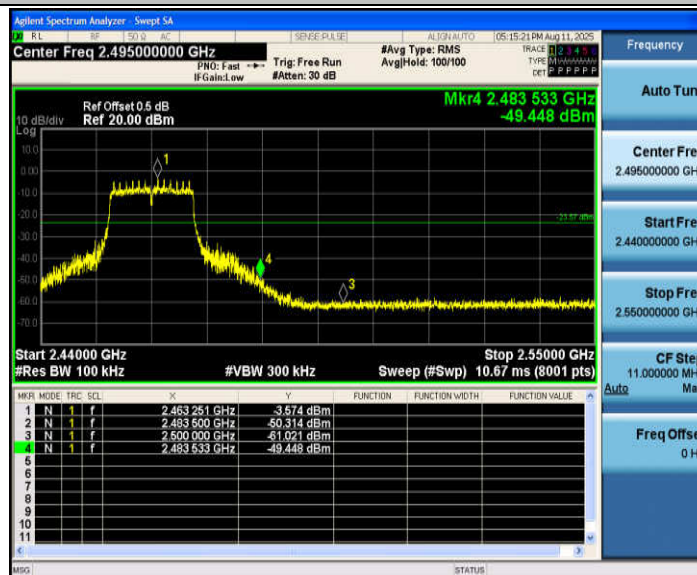
11B_Ant1_High_2462



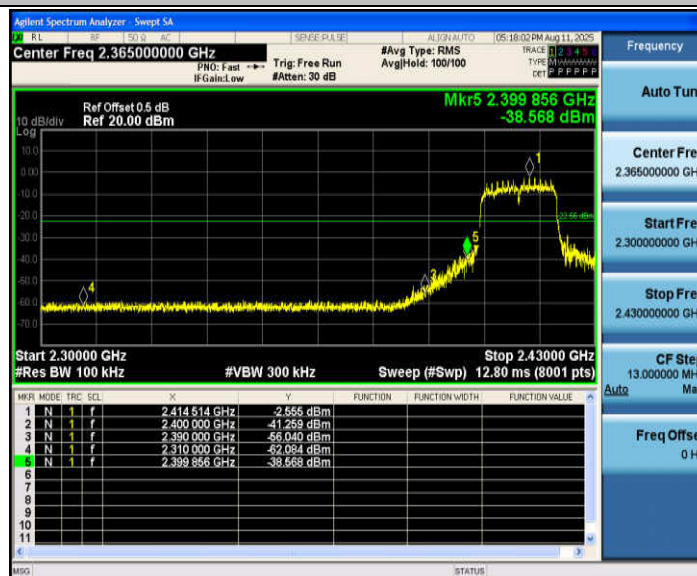
11G_Ant1_Low_2412



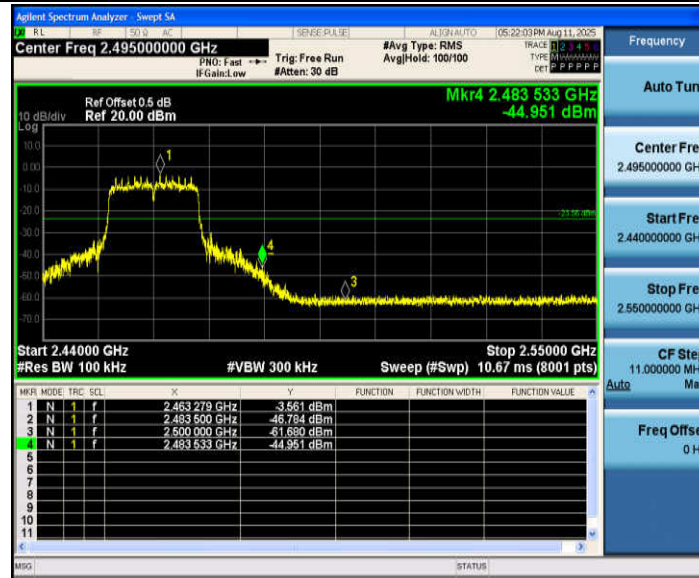
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

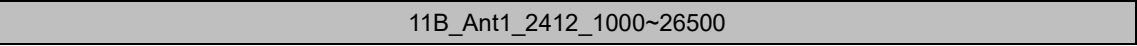
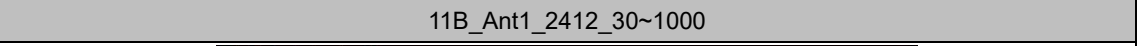


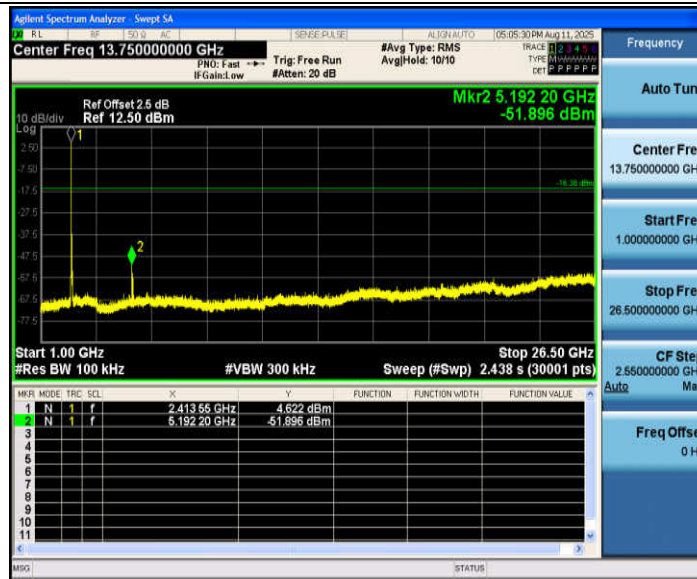
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.62	3.62	---	PASS
			30~1000	3.62	-67.48	≤-16.38	PASS
			1000~26500	3.62	-51.9	≤-16.38	PASS
		2437	Reference	1.06	1.06	---	PASS
			30~1000	1.06	-68	≤-18.94	PASS
			1000~26500	1.06	-52.07	≤-18.94	PASS
		2462	Reference	0.92	0.92	---	PASS
			30~1000	0.92	-67.74	≤-19.08	PASS
			1000~26500	0.92	-53.5	≤-19.08	PASS
11G	Ant1	2412	Reference	-3.45	-3.45	---	PASS
			30~1000	-3.45	-67.79	≤-23.45	PASS
			1000~26500	-3.45	-51.56	≤-23.45	PASS
		2437	Reference	-3.97	-3.97	---	PASS
			30~1000	-3.97	-67.57	≤-23.97	PASS
			1000~26500	-3.97	-54.15	≤-23.97	PASS
		2462	Reference	-4.71	-4.71	---	PASS
			30~1000	-4.71	-66.25	≤-24.71	PASS
			1000~26500	-4.71	-50.52	≤-24.71	PASS
11N20SISO	Ant1	2412	Reference	-2.49	-2.49	---	PASS
			30~1000	-2.49	-67.03	≤-22.49	PASS
			1000~26500	-2.49	-55.08	≤-22.49	PASS
		2437	Reference	-4.00	-4.00	---	PASS
			30~1000	-4.00	-58.58	≤-24	PASS
			1000~26500	-4.00	-50.06	≤-24	PASS
		2462	Reference	-4.15	-4.15	---	PASS
			30~1000	-4.15	-56.9	≤-24.15	PASS
			1000~26500	-4.15	-49.39	≤-24.15	PASS
11N40SISO	Ant1	2422	Reference	-6.67	-6.67	---	PASS
			30~1000	-6.67	-67.79	≤-26.67	PASS
			1000~26500	-6.67	-45.88	≤-26.67	PASS
		2437	Reference	-6.92	-6.92	---	PASS
			30~1000	-6.92	-60.15	≤-26.92	PASS
			1000~26500	-6.92	-48.76	≤-26.92	PASS
		2452	Reference	-6.17	-6.17	---	PASS
			30~1000	-6.17	-61.96	≤-26.17	PASS
			1000~26500	-6.17	-51.52	≤-26.17	PASS

11B_Ant1_2412_0~Reference

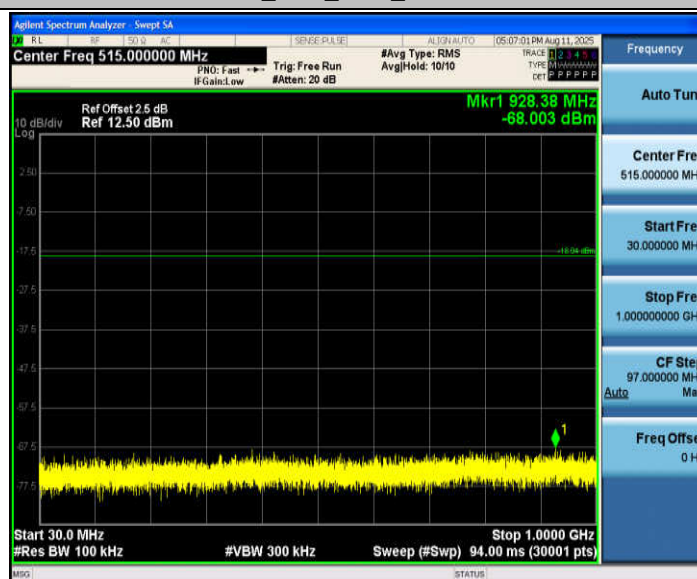




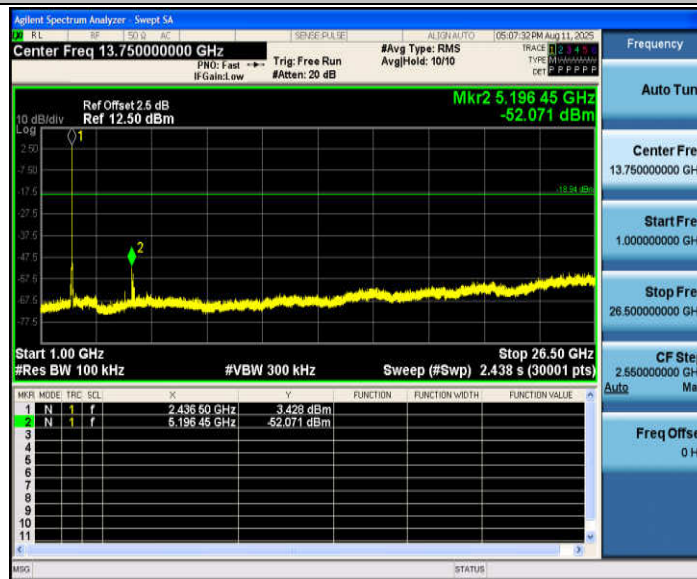
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



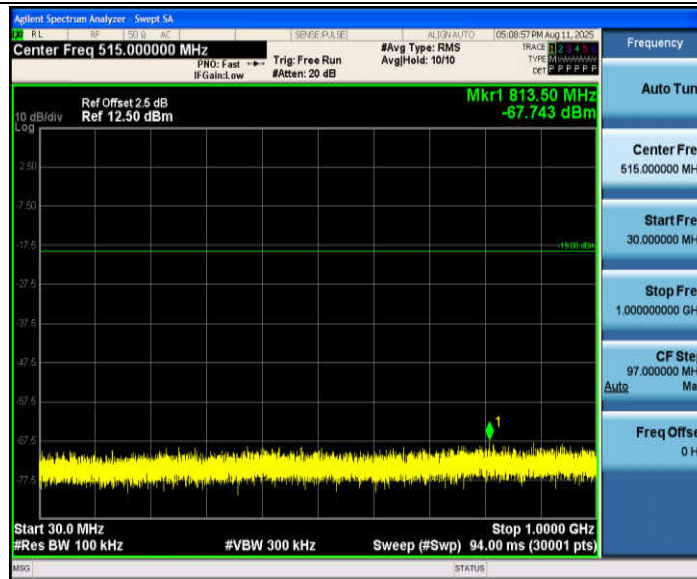
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



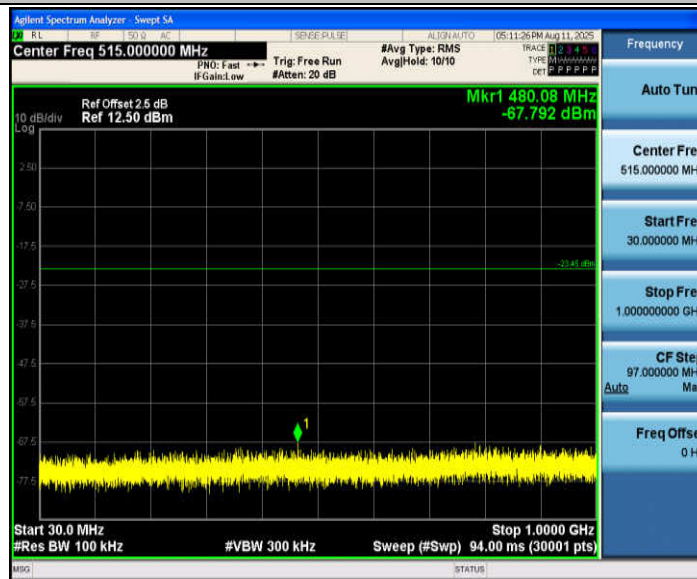
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



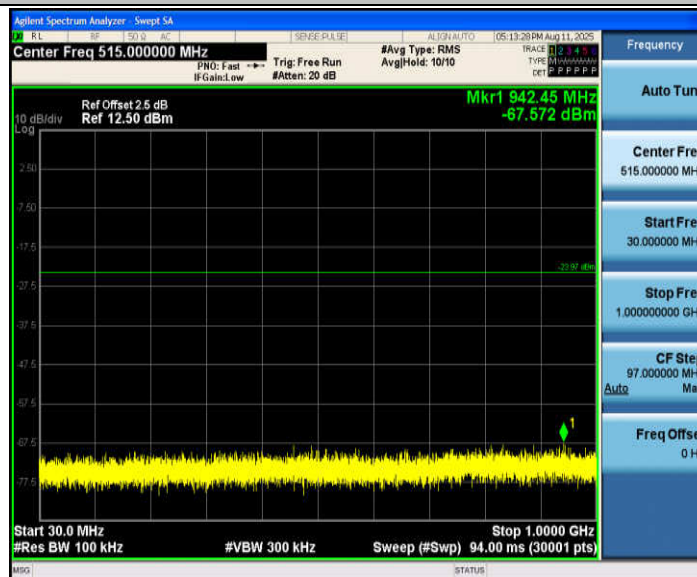
11G_Ant1_2412_1000~26500



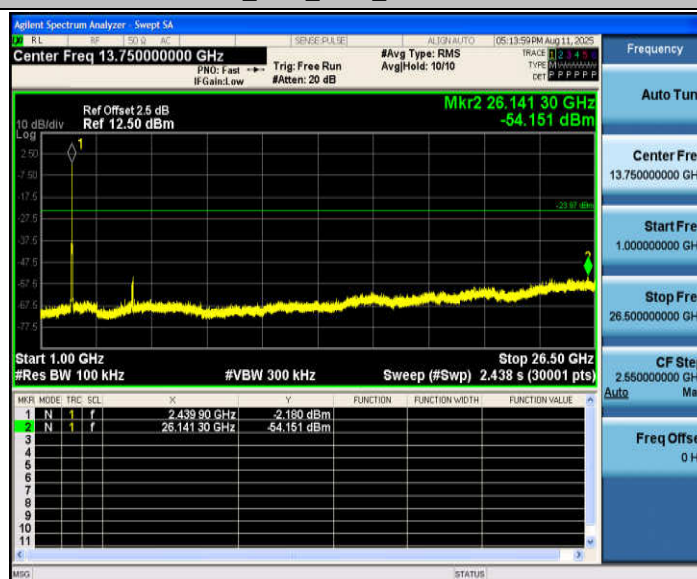
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



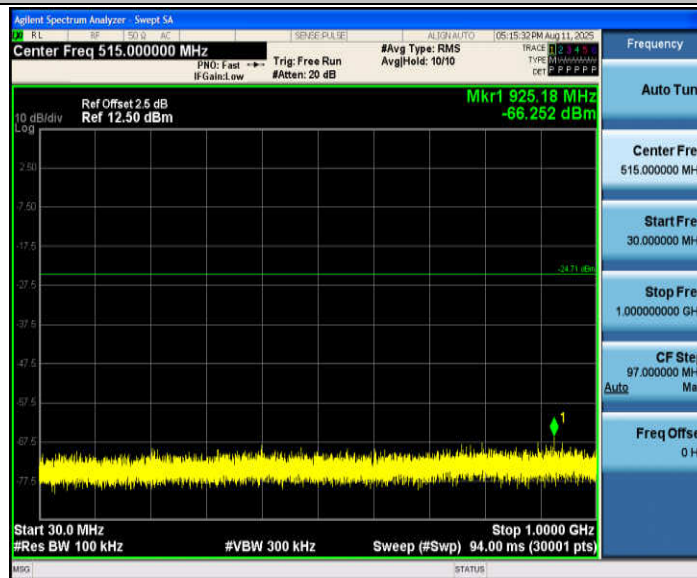
11G_Ant1_2437_1000~26500



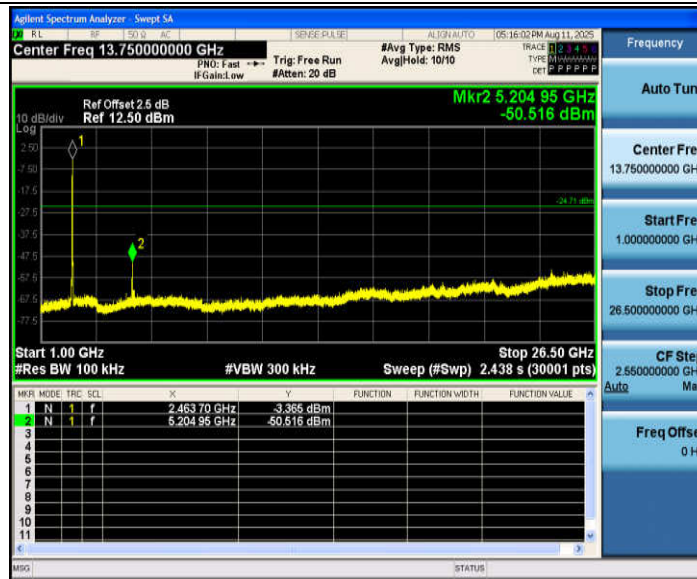
11G_Ant1_2462_0~Reference



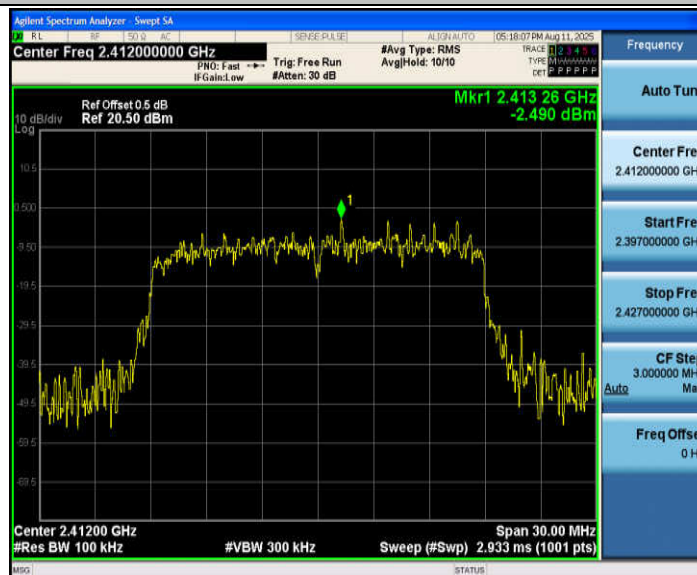
11G_Ant1_2462_30~1000



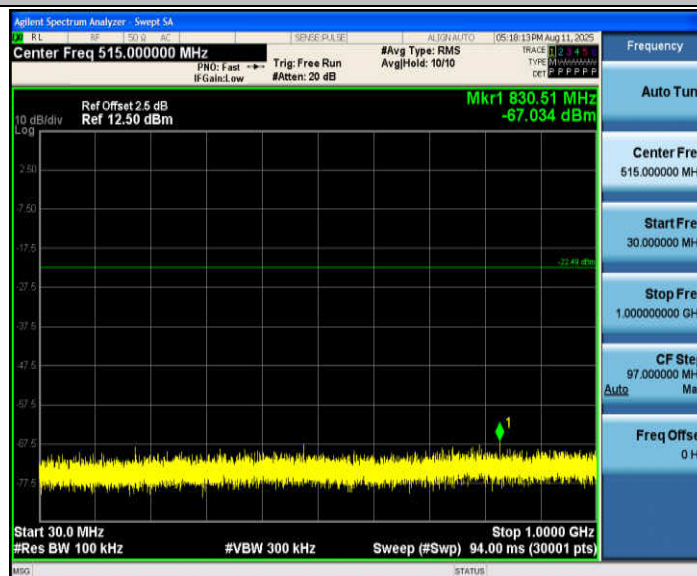
11G_Ant1_2462_1000~26500



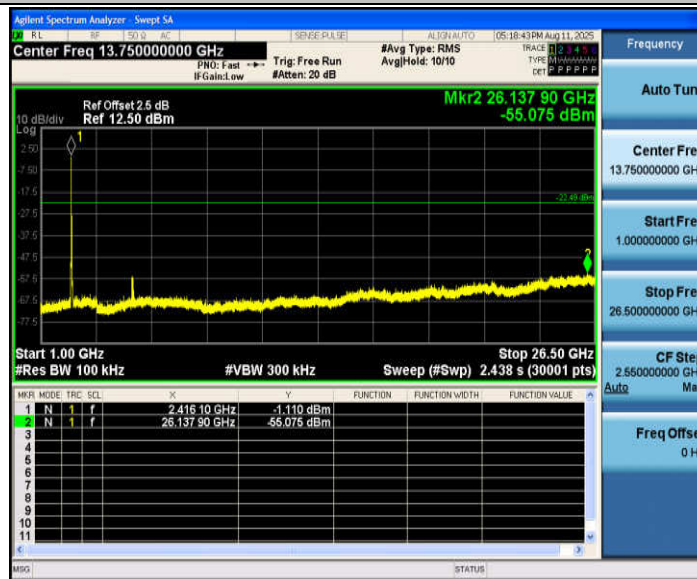
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



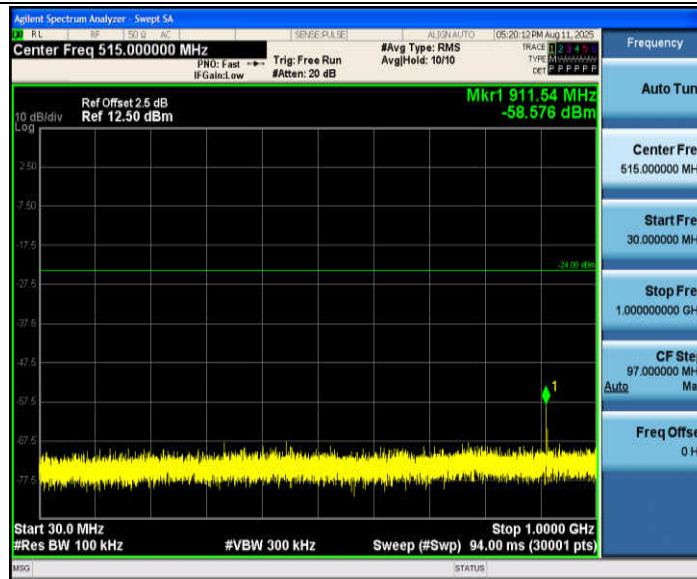
11N20SISO_Ant1_2412_1000~26500



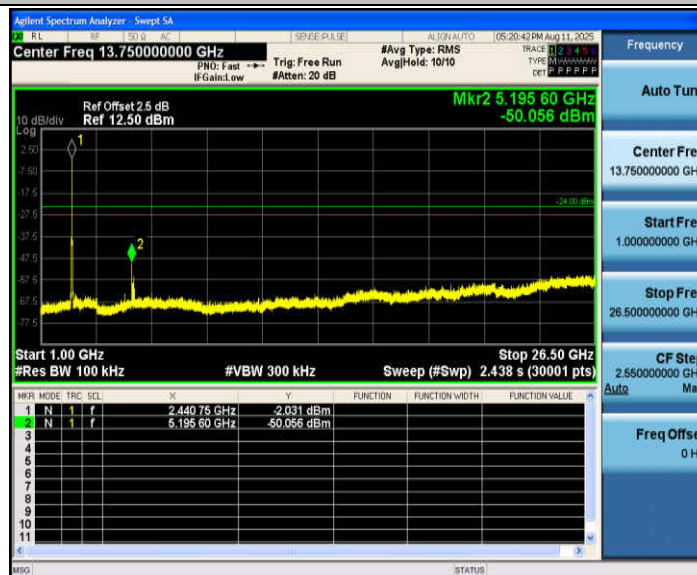
11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



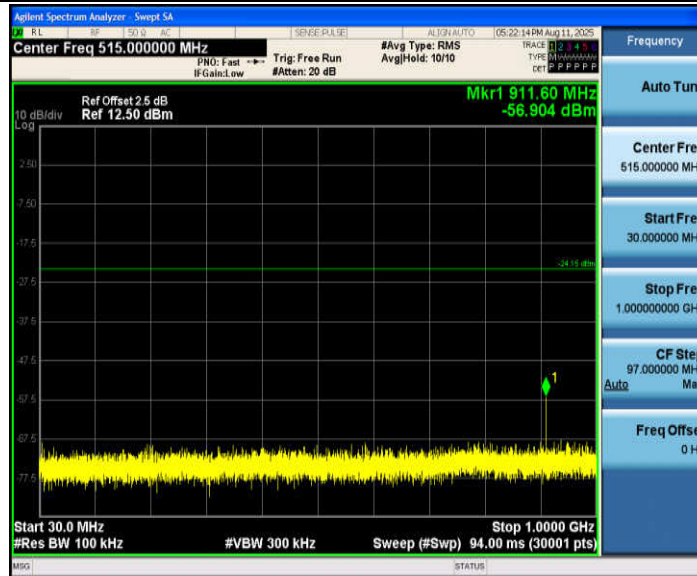
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



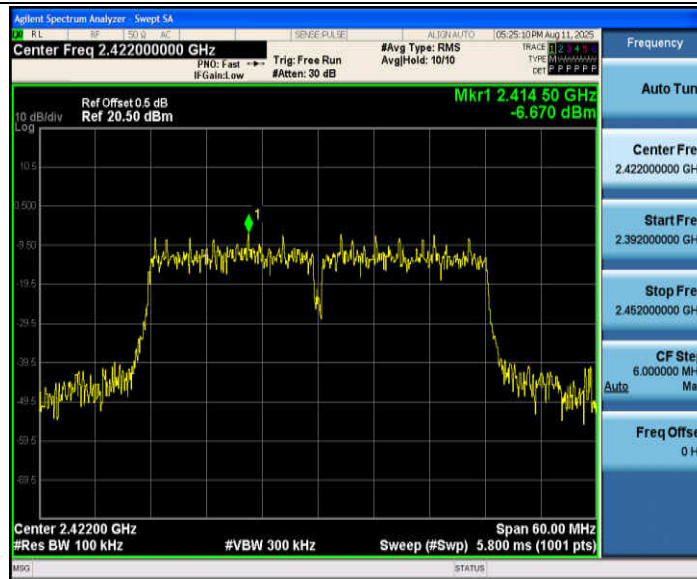
11N20SISO_Ant1_2462_30~1000



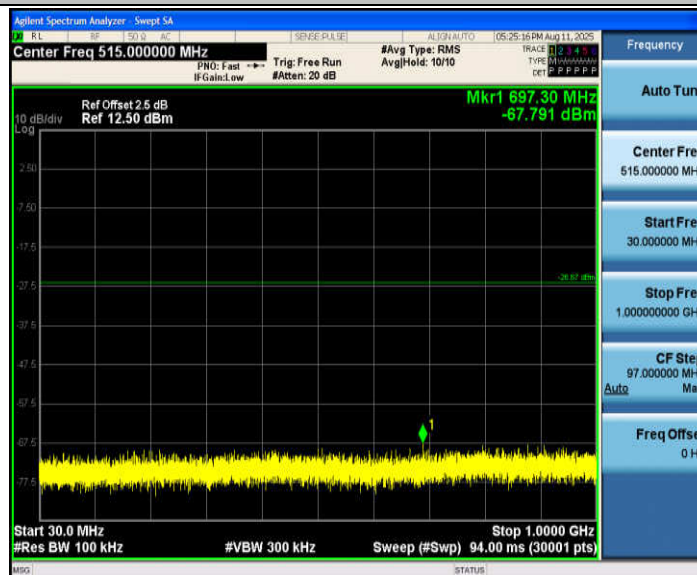
11N20SISO_Ant1_2462_1000~26500



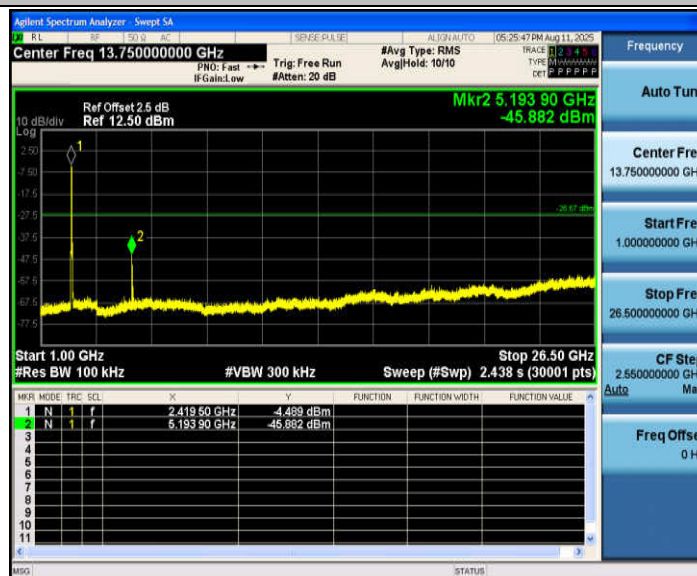
11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000



11N40SISO_Ant1_2422_1000~26500



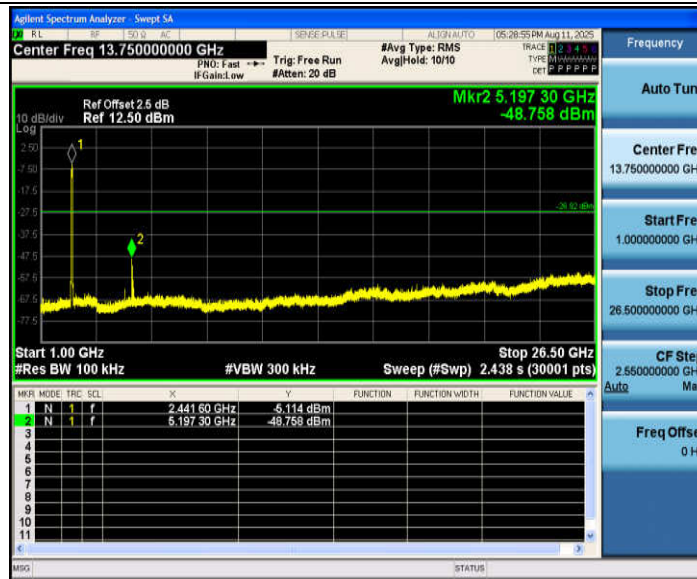
11N40SISO_Ant1_2437_0~Reference



11N40SISO_Ant1_2437_30~1000



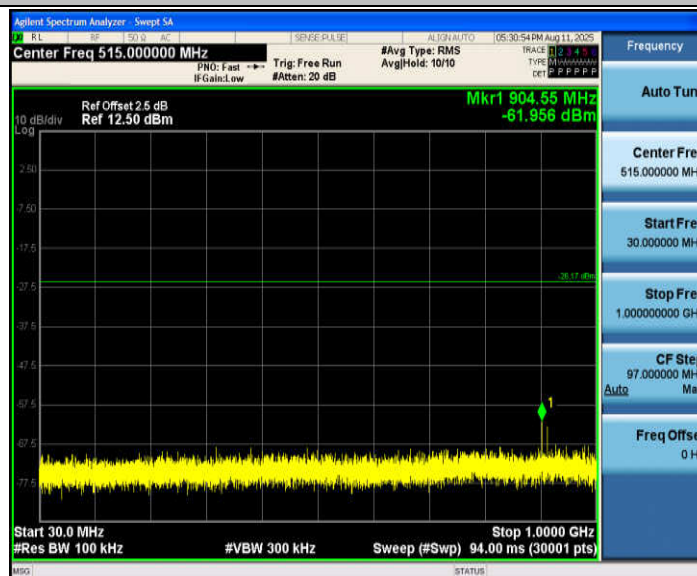
11N40SISO_Ant1_2437_1000~26500



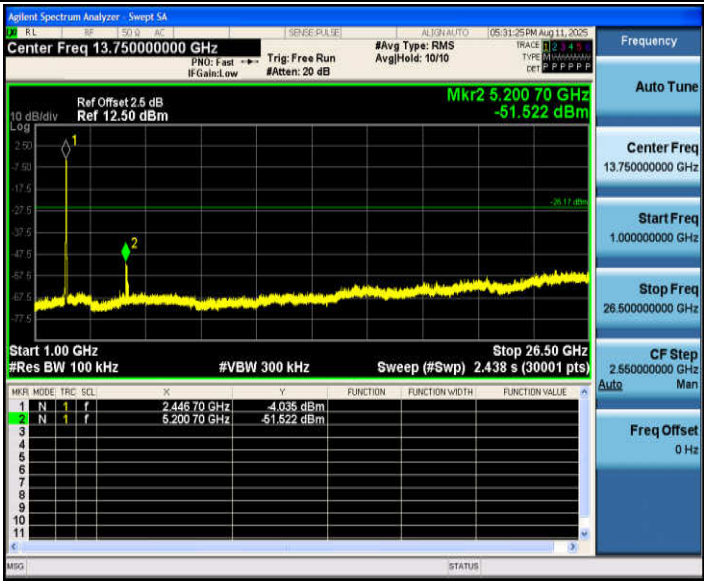
11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500



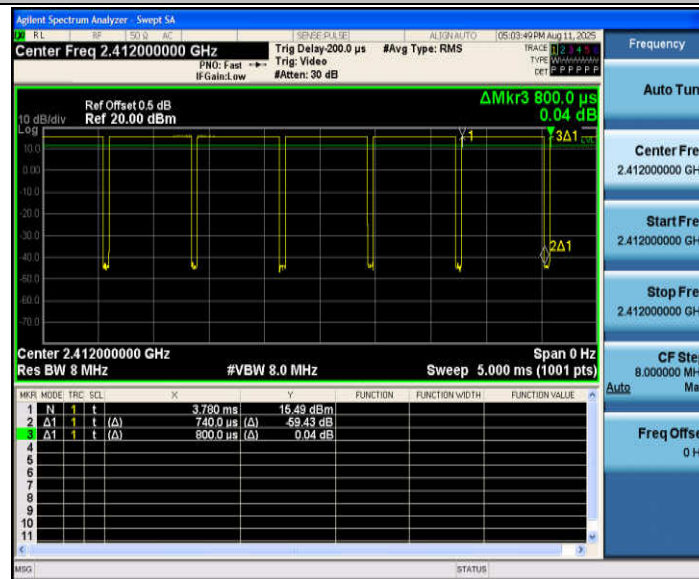
Appendix G: Duty Cycle

Test Result

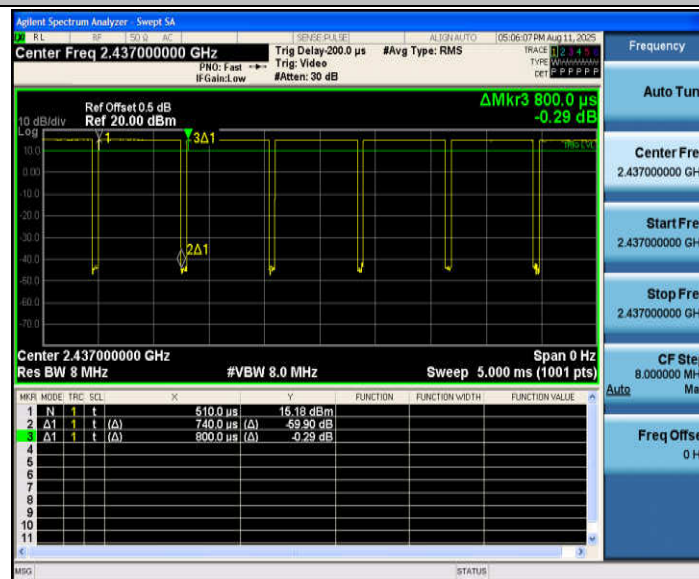
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	0.74	0.80	92.50
		2437	0.74	0.80	92.50
		2462	0.73	0.79	92.41
11G	Ant1	2412	0.11	0.18	61.11
		2437	0.11	0.18	61.11
		2462	0.12	0.18	66.67
11N20SISO	Ant1	2412	0.11	0.18	61.11
		2437	0.12	0.18	66.67
		2462	0.12	0.18	66.67
11N40SISO	Ant1	2422	0.07	0.14	50.00
		2437	0.07	0.14	50.00
		2452	0.07	0.14	50.00

Test Graphs

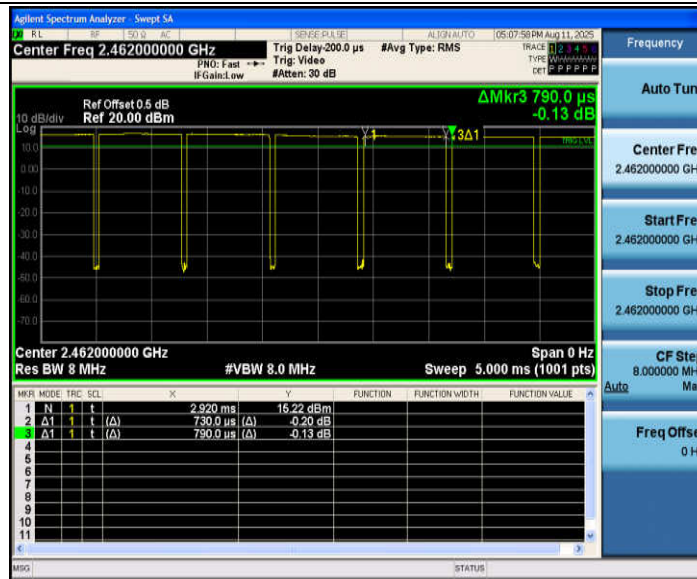
11B_Ant1_2412



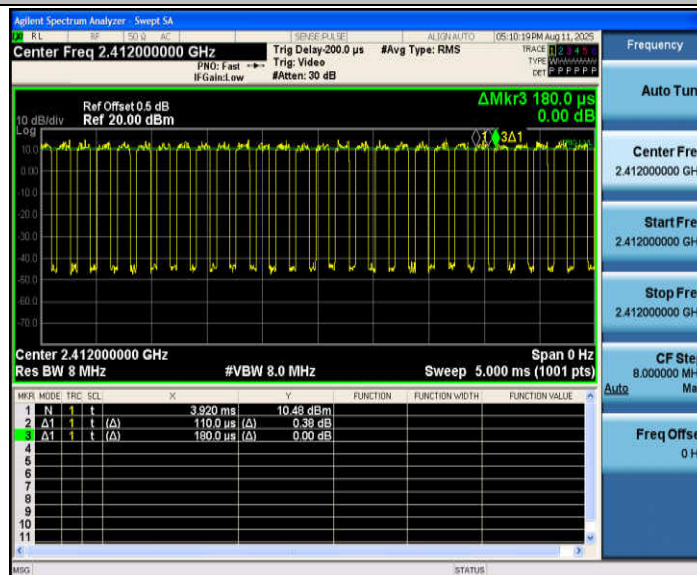
11B_Ant1_2437



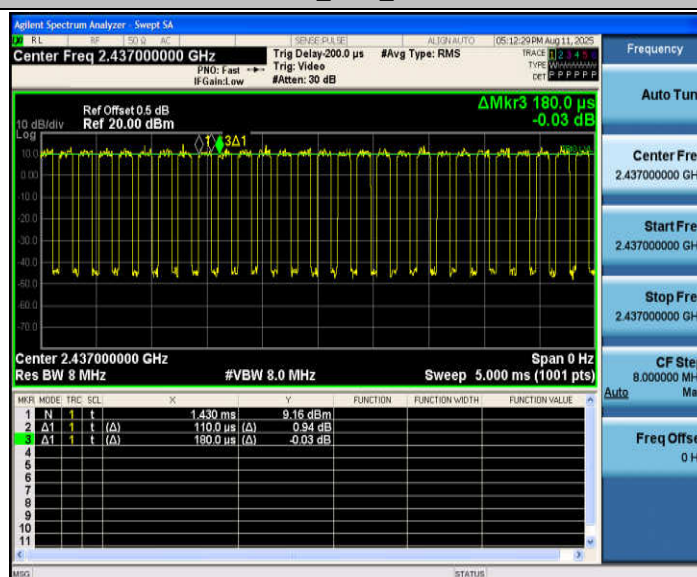
11B_Ant1_2462



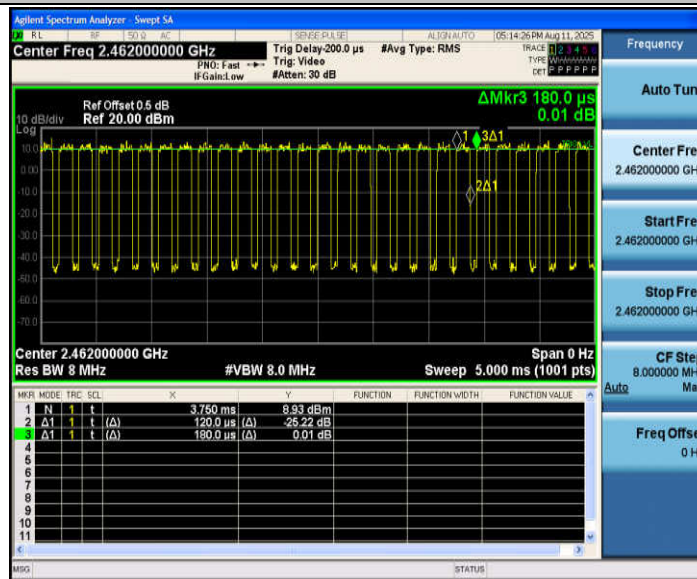
11G_Ant1_2412



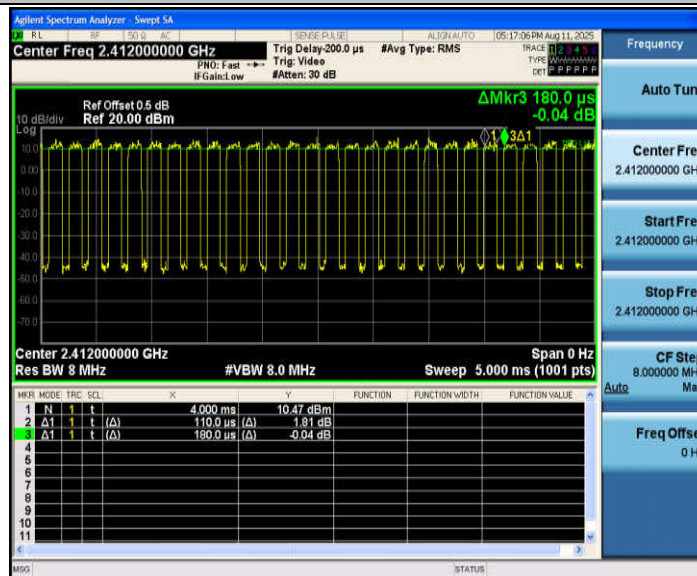
11G_Ant1_2437



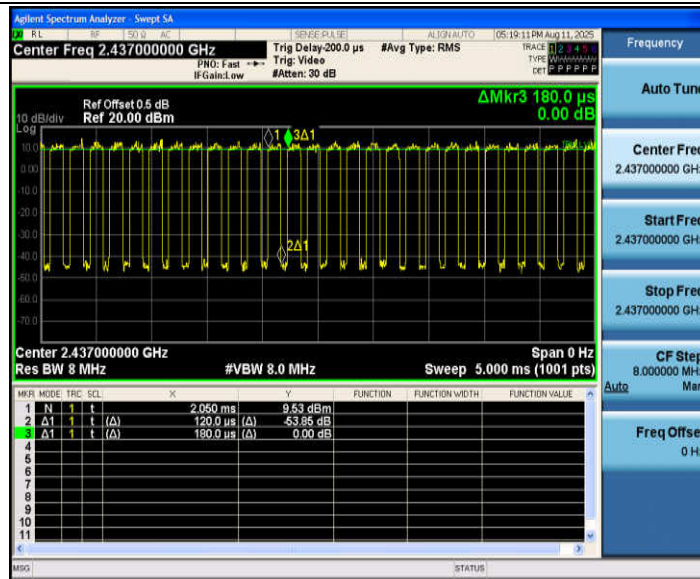
11G_Ant1_2462



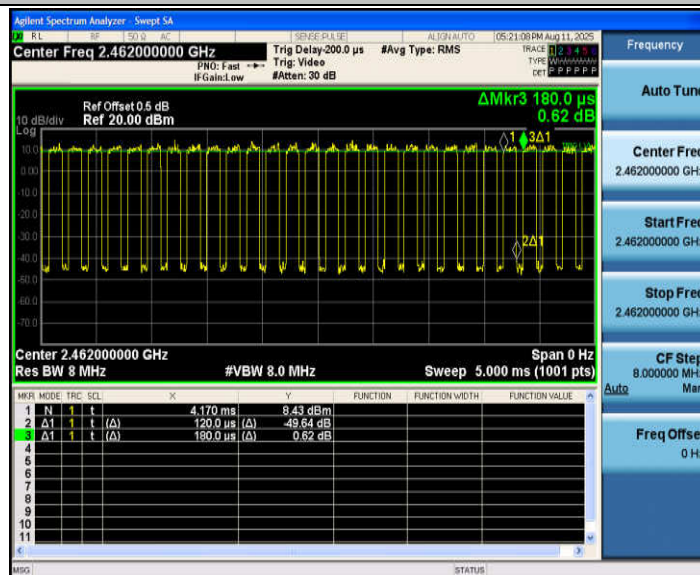
11N20SISO_Ant1_2412



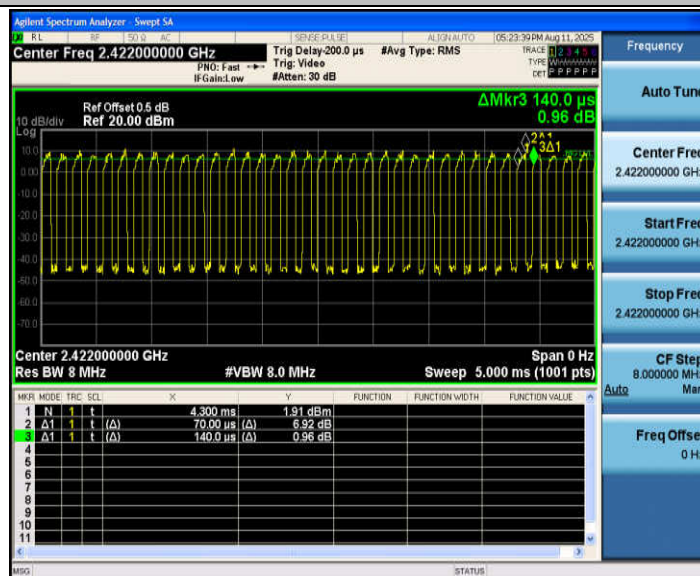
11N20SISO_Ant1_2437



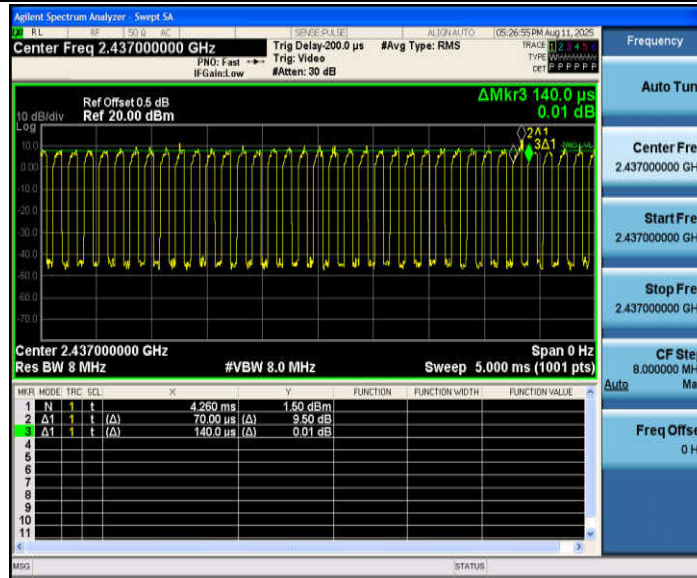
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

