

Appendix I WIFI 2.4G Test Data**Applicant:** Shenzhen Xin An Zhuo Technology Co.,Ltd.**Report No:** DLE-250709003R**EUT:** Recorder**M/N:** S3**Standard:**FCC Part15 Subpart C, Section 15.247**Test Power Supply:** DC 5V/3A from Car Charger**Ambient Condition:** 24.7 °C, 52 %RH, 101.325 kPa**Test Date:** 2025.07.08**Test Engineer:** Ken Tan*Ken Tan*

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.000	2407.040	2417.040	0.5	PASS
		2437	10.000	2432.040	2442.040	0.5	PASS
		2462	9.520	2457.520	2467.040	0.5	PASS
11G	Ant1	2412	16.280	2403.920	2420.200	0.5	PASS
		2437	16.040	2429.160	2445.200	0.5	PASS
		2462	16.280	2453.920	2470.200	0.5	PASS
11N20SISO	Ant1	2412	16.520	2403.920	2420.440	0.5	PASS
		2437	16.600	2428.920	2445.520	0.5	PASS
		2462	16.880	2453.680	2470.560	0.5	PASS
11N40SISO	Ant1	2422	35.040	2404.560	2439.600	0.5	PASS
		2437	35.040	2419.560	2454.600	0.5	PASS
		2452	35.120	2434.480	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



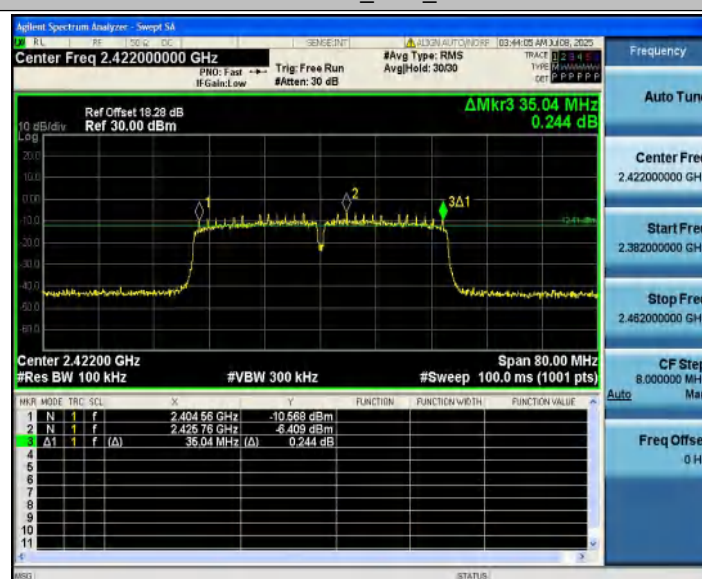
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



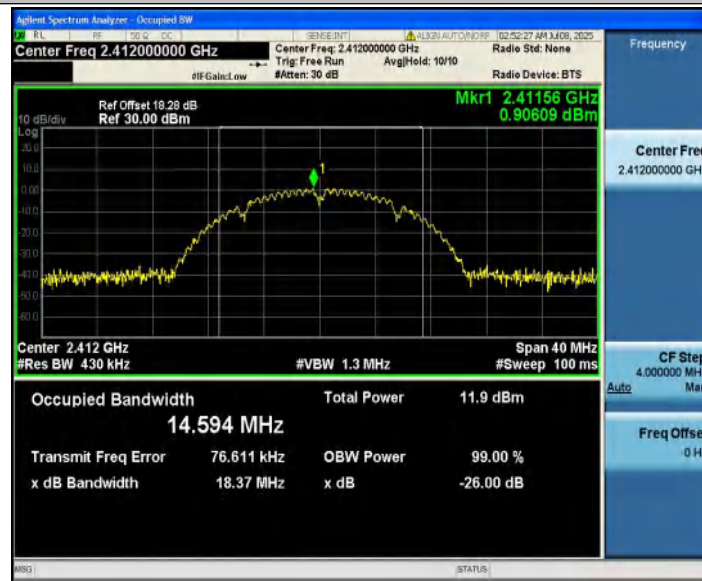
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.594	2404.7796	2419.3736	---	---
		2437	14.547	2429.7869	2444.3339	---	---
		2462	14.505	2454.7727	2469.2777	---	---
11G	Ant1	2412	16.495	2403.7653	2420.2603	---	---
		2437	16.615	2428.7256	2445.3406	---	---
		2462	16.572	2453.7242	2470.2962	---	---
11N20SISO	Ant1	2412	17.628	2403.1835	2420.8115	---	---
		2437	17.693	2428.1837	2445.8767	---	---
		2462	17.700	2453.1997	2470.8997	---	---
11N40SISO	Ant1	2422	35.983	2404.1086	2440.0916	---	---
		2437	35.849	2419.2226	2455.0716	---	---
		2452	35.929	2434.1077	2470.0367	---	---

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



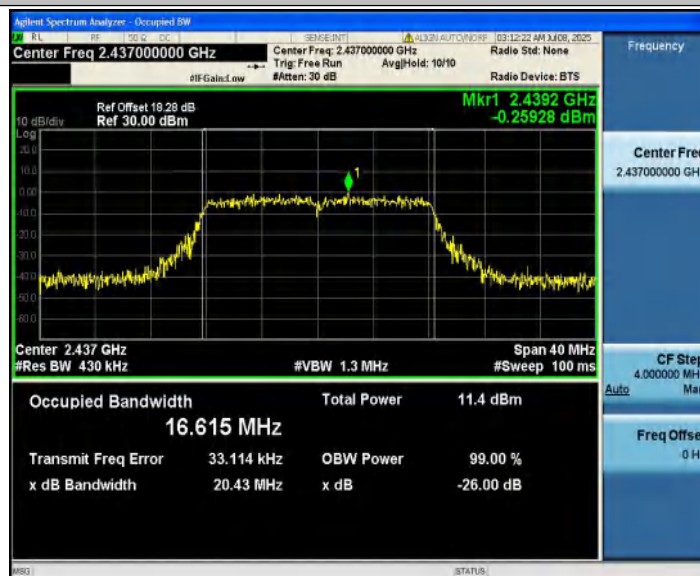
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



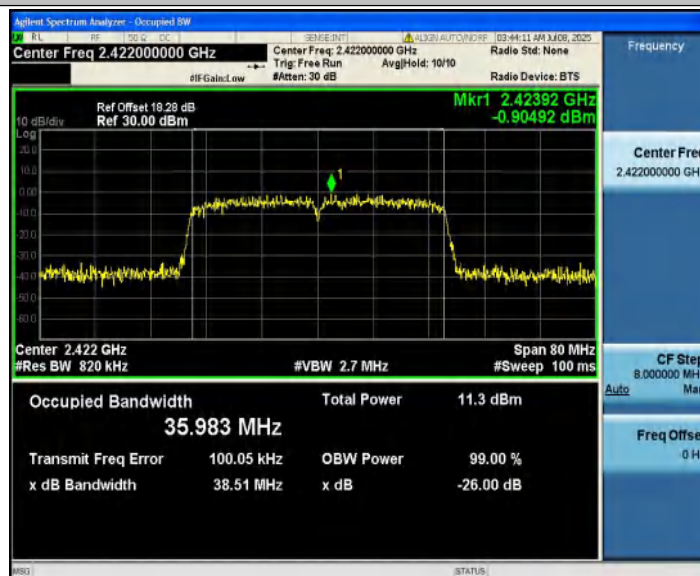
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Channel	Set Power	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	---	12.24	≤30.00
		2437	---	12.79	≤30.00
		2462	---	12.91	≤30.00
11G	Ant1	2412	---	15.60	≤30.00
		2437	---	15.61	≤30.00
		2462	---	15.72	≤30.00
11N20SISO	Ant1	2412	---	15.28	≤30.00
		2437	---	15.48	≤30.00
		2462	---	16.11	≤30.00
11N40SISO	Ant1	2422	---	15.38	≤30.00
		2437	---	15.54	≤30.00
		2452	---	15.53	≤30.00

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-12.25	≤8.00	PASS
		2437	-11.75	≤8.00	PASS
		2462	-10.88	≤8.00	PASS
11G	Ant1	2412	-13.11	≤8.00	PASS
		2437	-16.19	≤8.00	PASS
		2462	-16.68	≤8.00	PASS
11N20SISO	Ant1	2412	-14.82	≤8.00	PASS
		2437	-16.31	≤8.00	PASS
		2462	-15.74	≤8.00	PASS
11N40SISO	Ant1	2422	-20.01	≤8.00	PASS
		2437	-20.48	≤8.00	PASS
		2452	-20.07	≤8.00	PASS

Test Graphs

11B_Ant1_2412



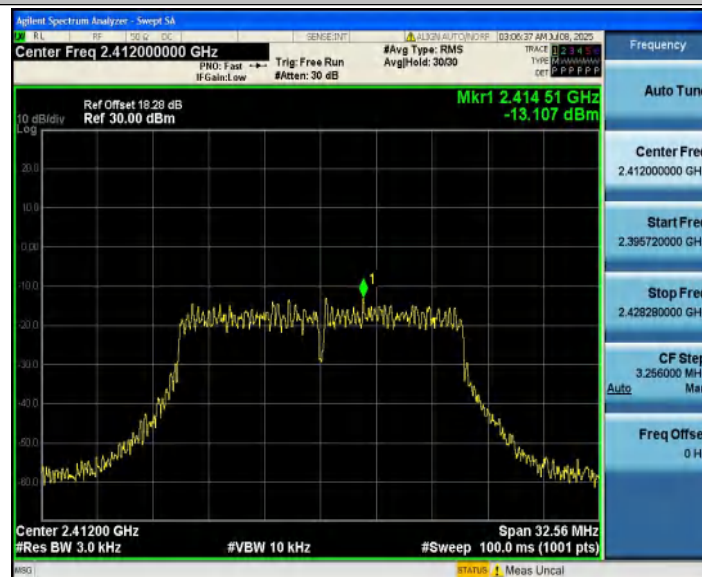
11B_Ant1_2437



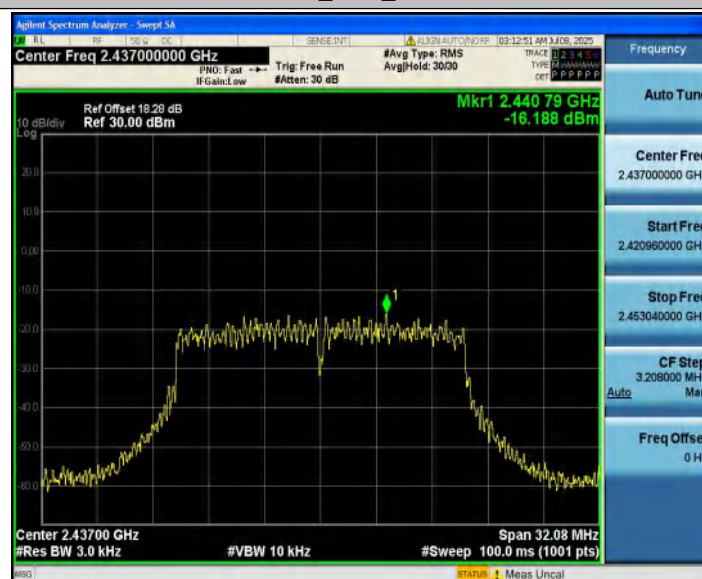
11B_Ant1_2462



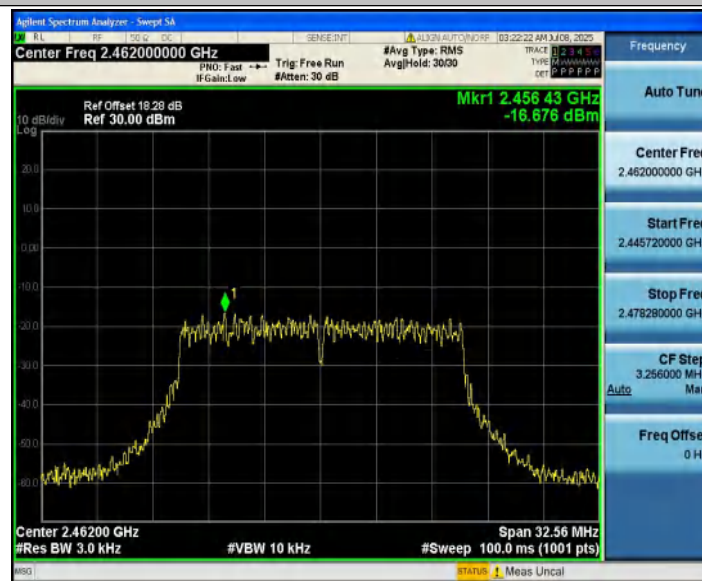
11G_Ant1_2412



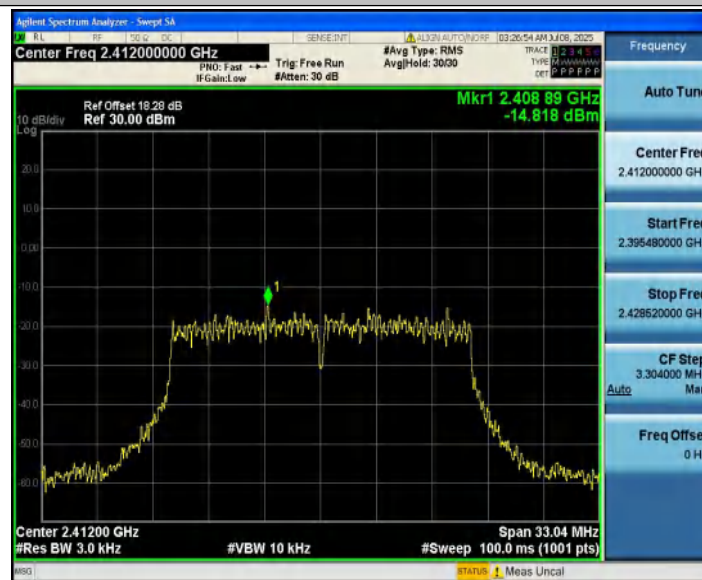
11G_Ant1_2437



11G_Ant1_2462



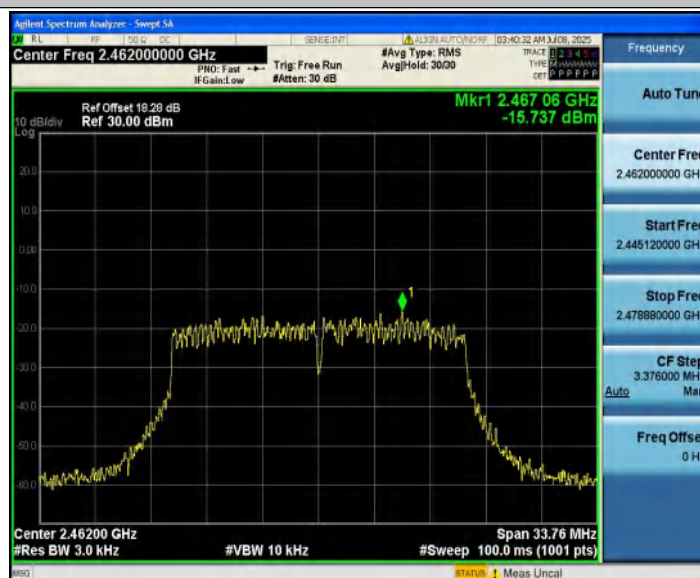
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



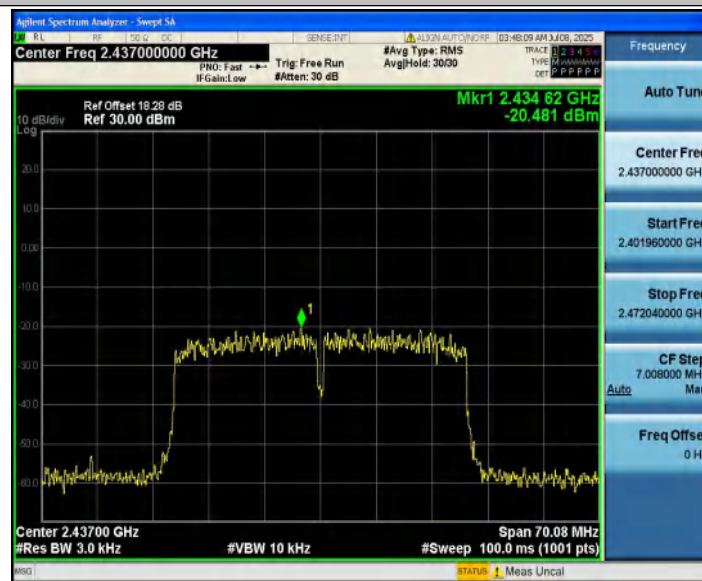
11N20SISO_Ant1_2462



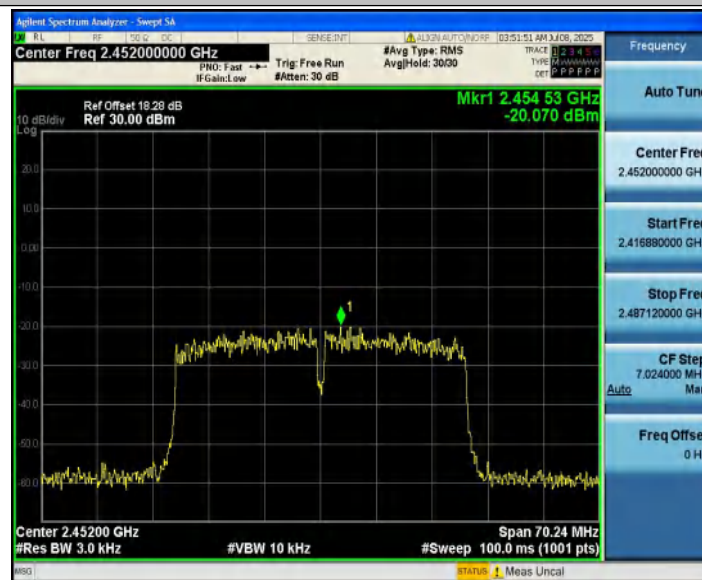
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



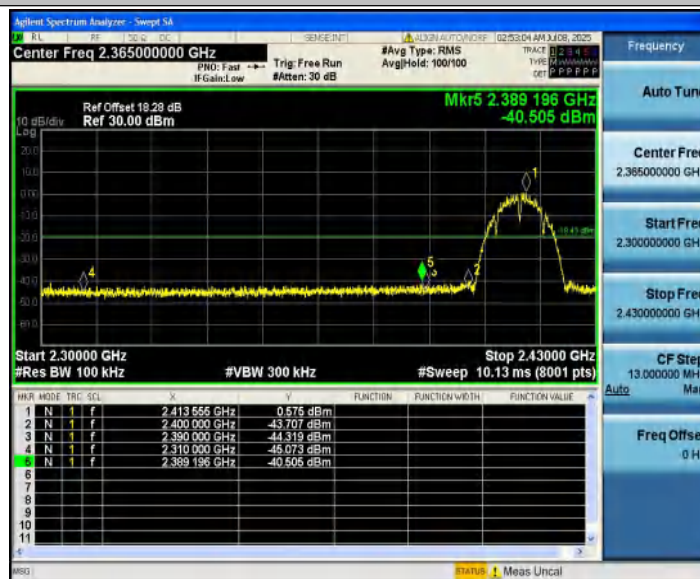
Appendix E: Band edge measurements

Test Result

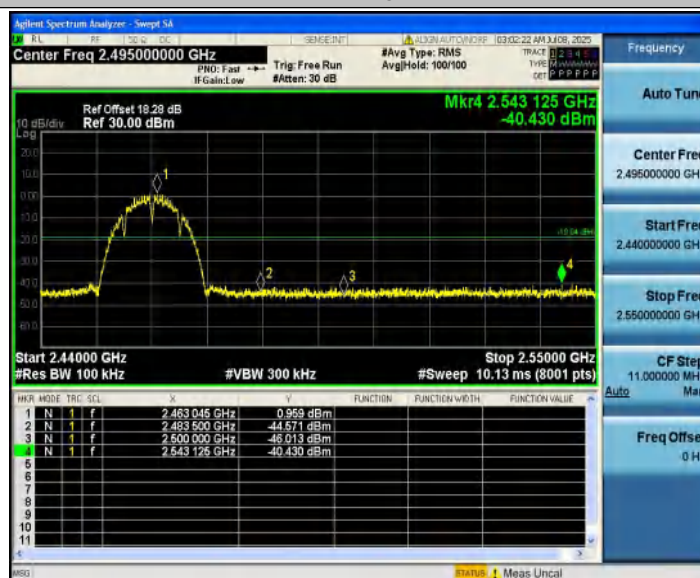
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	0.58	-40.51	≤ -19.43	PASS
		High	2462	0.96	-40.43	≤ -19.04	PASS
11G	Ant1	Low	2412	-0.73	-37.83	≤ -20.73	PASS
		High	2462	-3.50	-41.52	≤ -23.5	PASS
11N20SISO	Ant1	Low	2412	-3.63	-39.47	≤ -23.63	PASS
		High	2462	-3.17	-39.49	≤ -23.17	PASS
11N40SISO	Ant1	Low	2422	-6.78	-39.96	≤ -26.78	PASS
		High	2452	-6.12	-41.2	≤ -26.12	PASS

Test Graphs

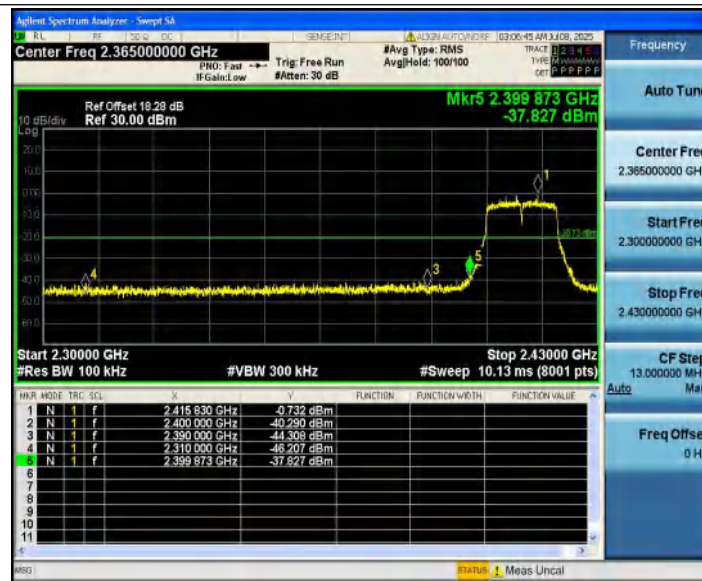
11B_Ant1_Low_2412



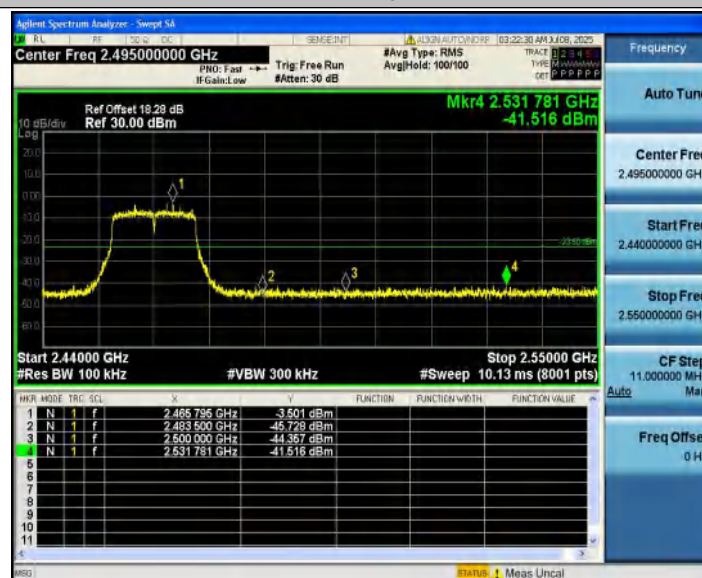
11B_Ant1_High_2462



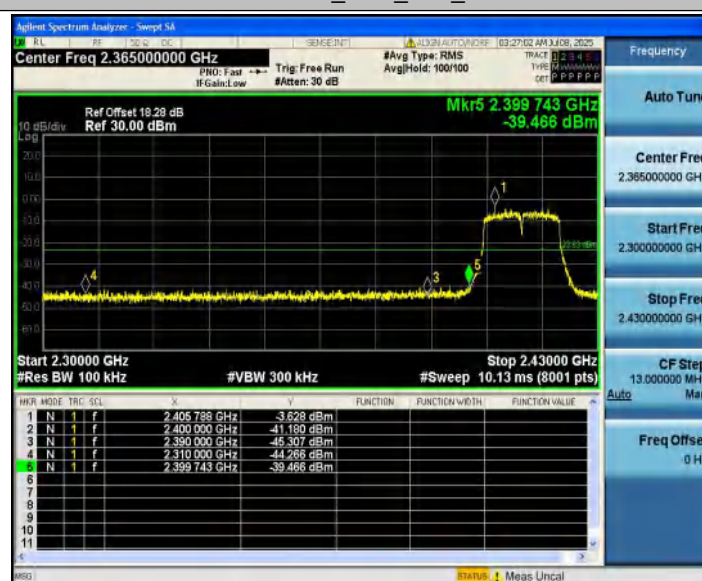
11G_Ant1_Low_2412



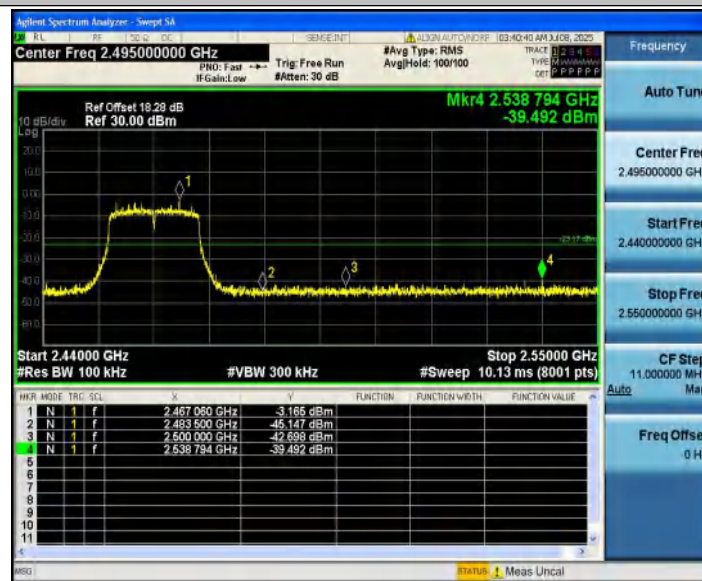
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

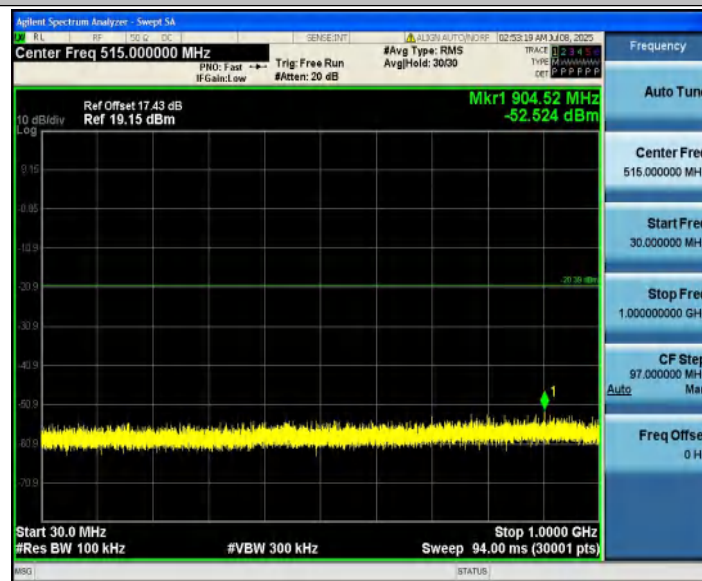
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-0.39	-0.39	---	PASS
			30~1000	-0.39	-52.52	≤-20.39	PASS
			1000~26500	-0.39	-38.8	≤-20.39	PASS
		2437	Reference	0.90	0.90	---	PASS
			30~1000	0.90	-52.88	≤-19.1	PASS
			1000~26500	0.90	-38.18	≤-19.1	PASS
		2462	Reference	-0.29	-0.29	---	PASS
			30~1000	-0.29	-53.07	≤-20.29	PASS
			1000~26500	-0.29	-38.48	≤-20.29	PASS
11G	Ant1	2412	Reference	-3.74	-3.74	---	PASS
			30~1000	-3.74	-52.58	≤-23.74	PASS
			1000~26500	-3.74	-38.23	≤-23.74	PASS
		2437	Reference	-4.24	-4.24	---	PASS
			30~1000	-4.24	-52.12	≤-24.24	PASS
			1000~26500	-4.24	-38.63	≤-24.24	PASS
		2462	Reference	-4.63	-4.63	---	PASS
			30~1000	-4.63	-52.95	≤-24.63	PASS
			1000~26500	-4.63	-38.24	≤-24.63	PASS
11N20SISO	Ant1	2412	Reference	-4.84	-4.84	---	PASS
			30~1000	-4.84	-53.28	≤-24.84	PASS
			1000~26500	-4.84	-38.44	≤-24.84	PASS
		2437	Reference	-7.18	-7.18	---	PASS
			30~1000	-7.18	-52.37	≤-27.18	PASS
			1000~26500	-7.18	-38.55	≤-27.18	PASS
		2462	Reference	-5.03	-5.03	---	PASS
			30~1000	-5.03	-52.91	≤-25.03	PASS
			1000~26500	-5.03	-37.8	≤-25.03	PASS
11N40SISO	Ant1	2422	Reference	-7.04	-7.04	---	PASS
			30~1000	-7.04	-52.94	≤-27.04	PASS
			1000~26500	-7.04	-38.38	≤-27.04	PASS
		2437	Reference	-7.34	-7.34	---	PASS
			30~1000	-7.34	-53.06	≤-27.34	PASS
			1000~26500	-7.34	-38.35	≤-27.34	PASS
		2452	Reference	-7.99	-7.99	---	PASS
			30~1000	-7.99	-53.23	≤-27.99	PASS
			1000~26500	-7.99	-38.36	≤-27.99	PASS

Test Graphs

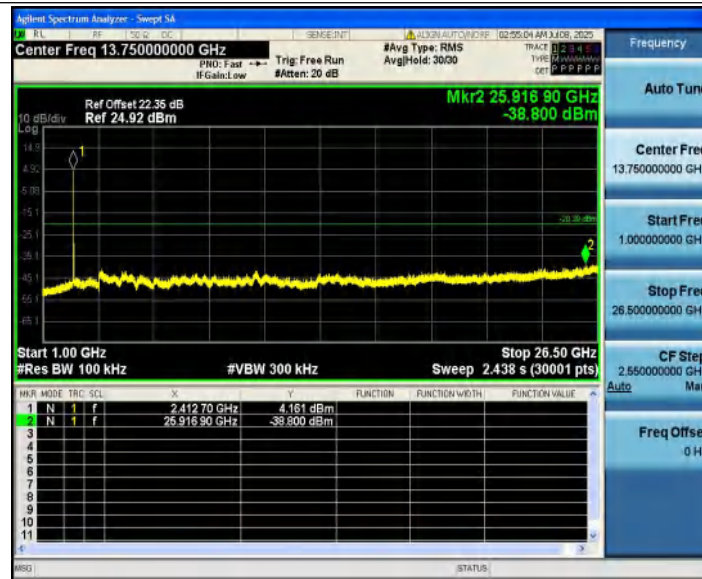
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



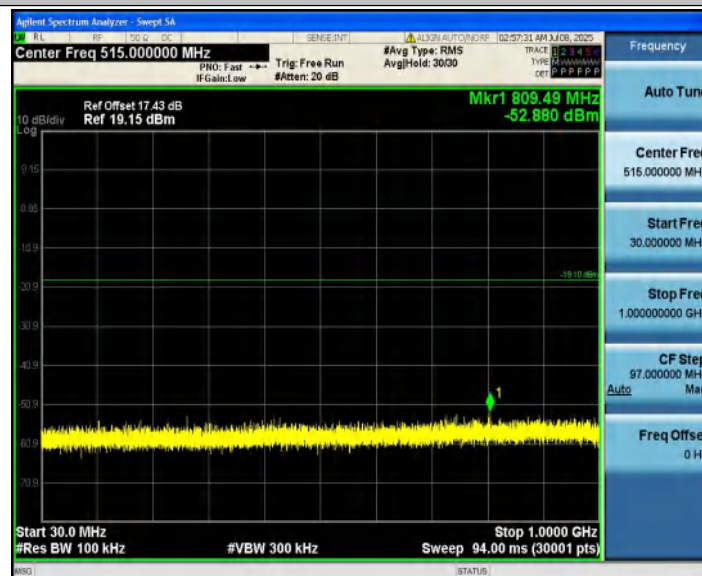
11B_Ant1_2412_1000~26500



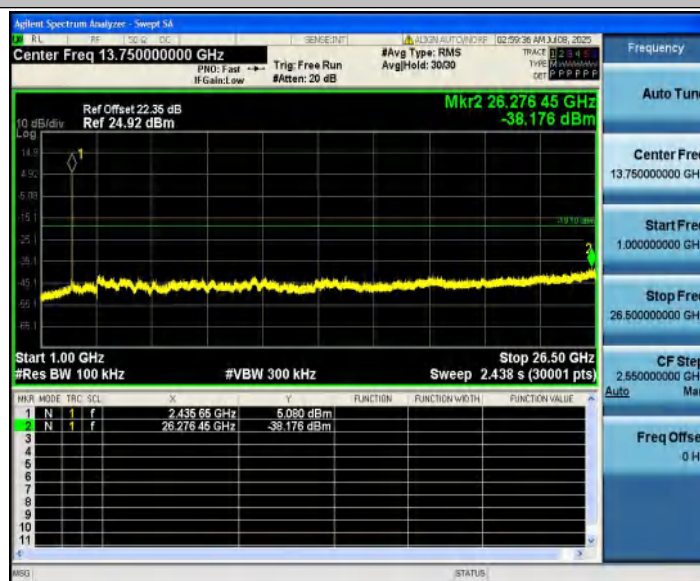
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



11B_Ant1_2437_1000~26500



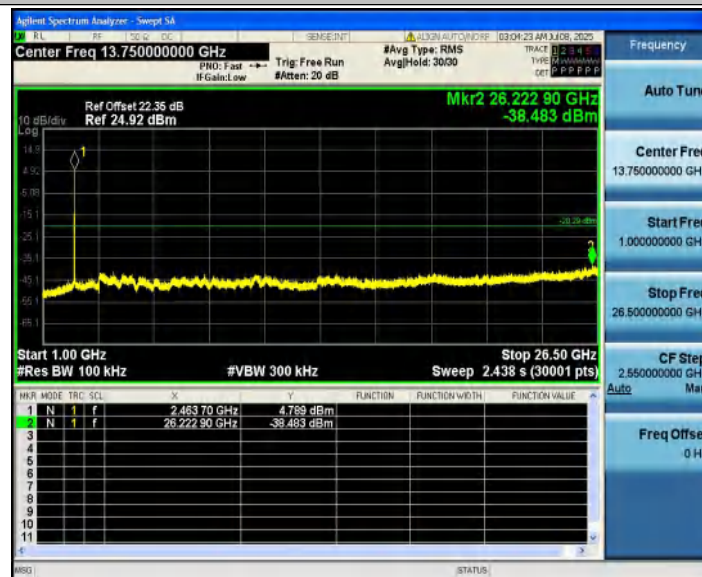
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



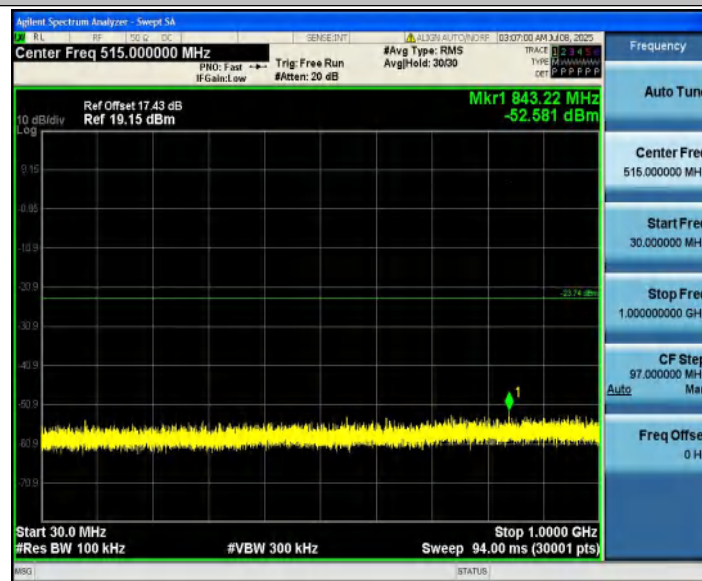
11B_Ant1_2462_1000~26500



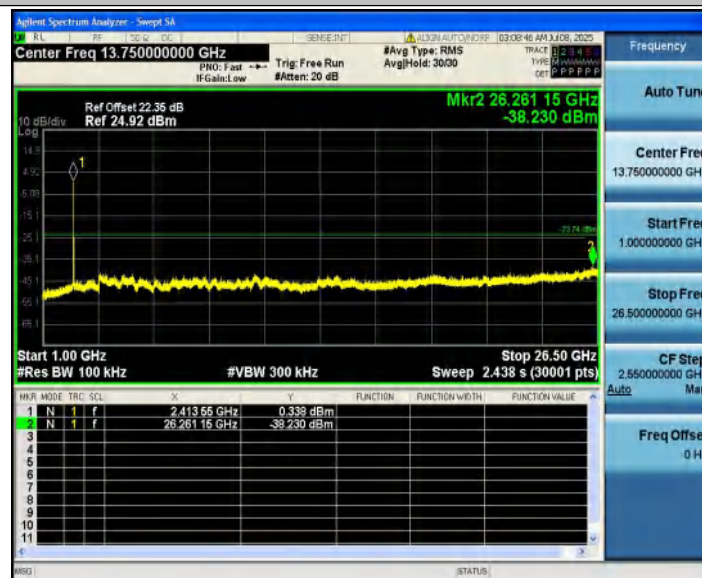
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



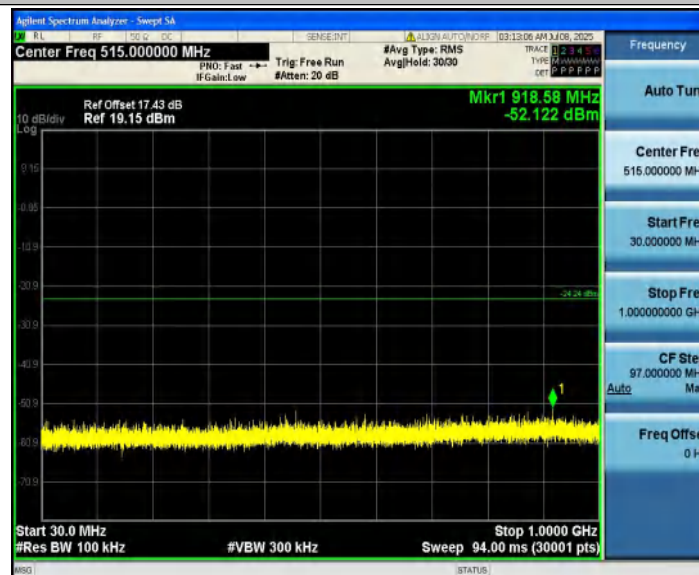
11G_Ant1_2412_1000~26500



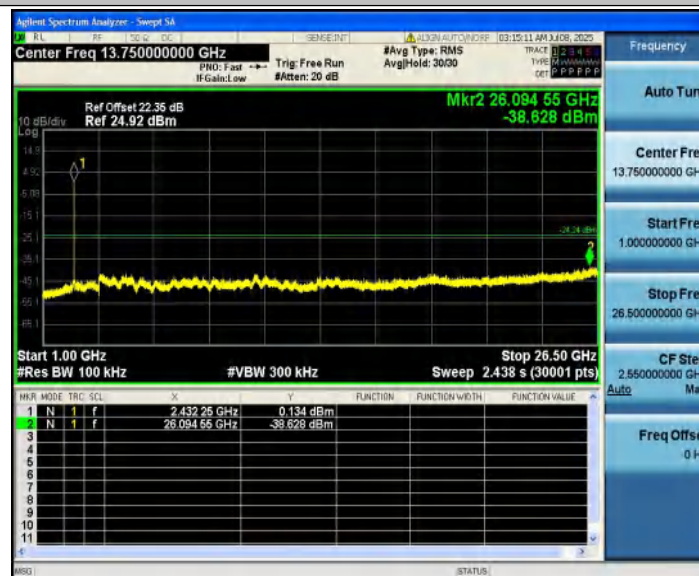
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



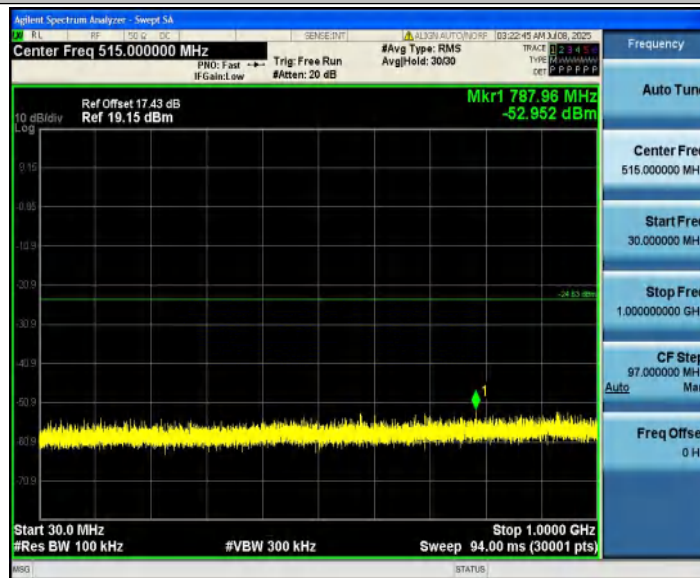
11G_Ant1_2437_1000~26500



11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



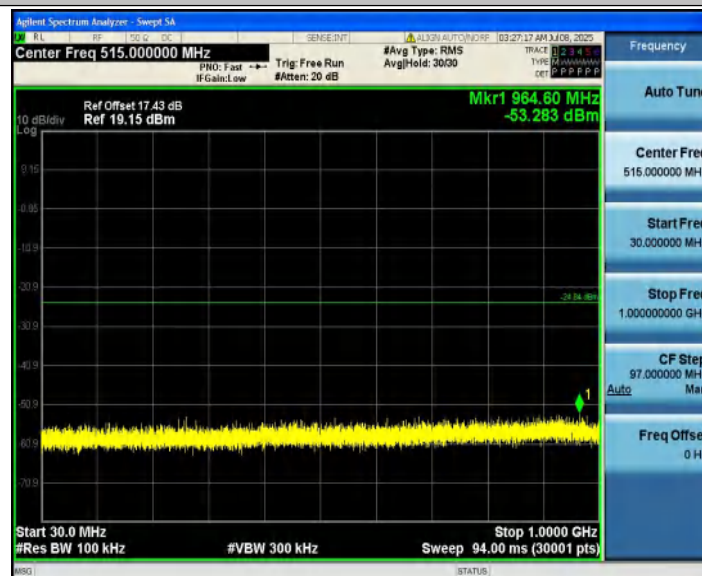
11G_Ant1_2462_1000~26500



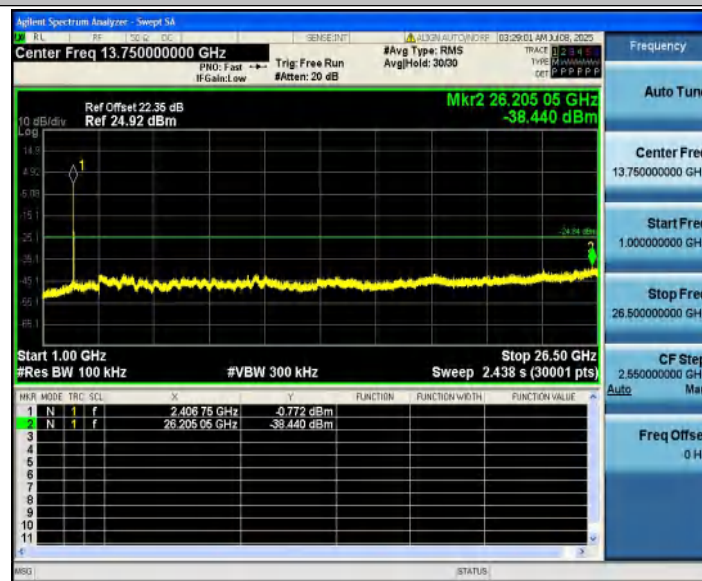
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



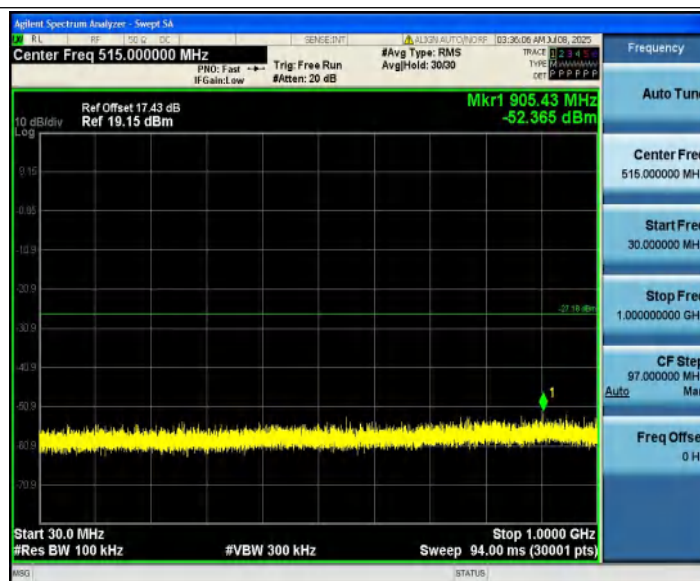
11N20SISO_Ant1_2412_1000~26500



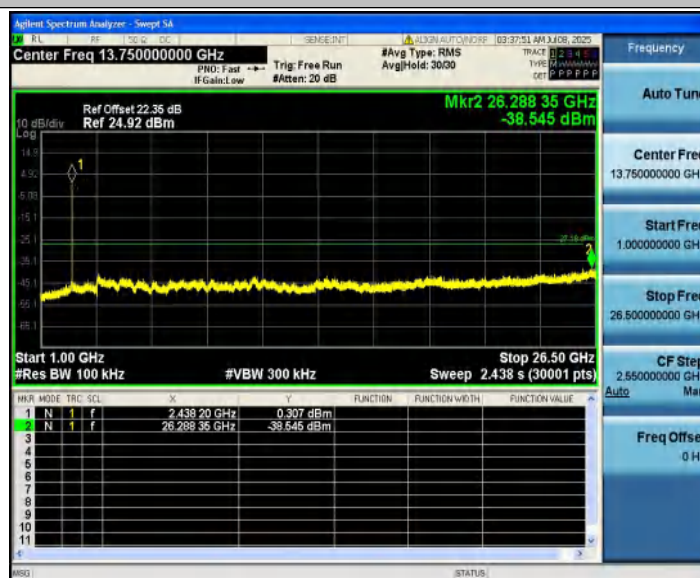
11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



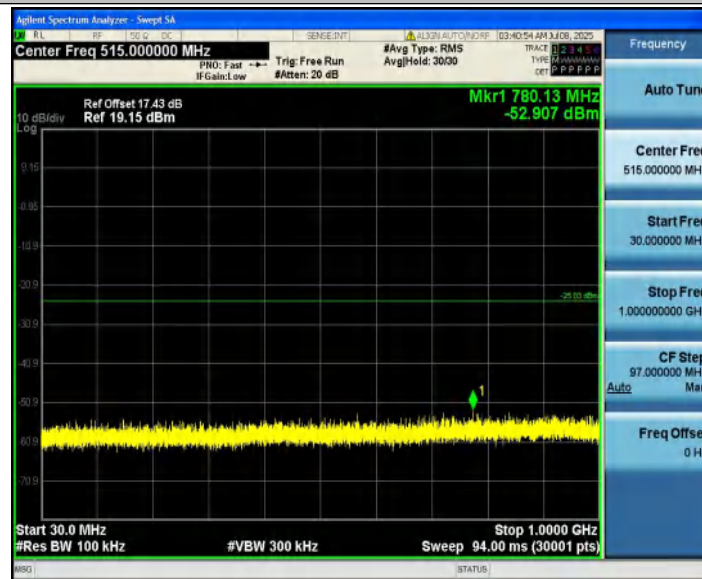
11N20SISO_Ant1_2437_1000~26500



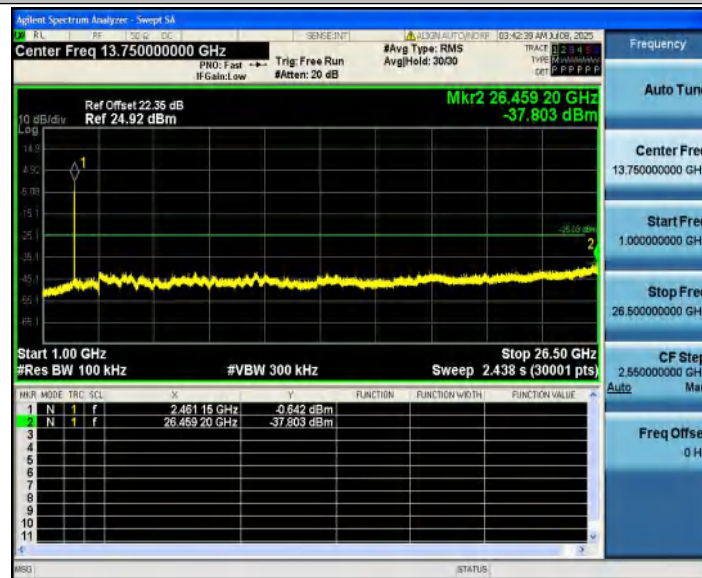
11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



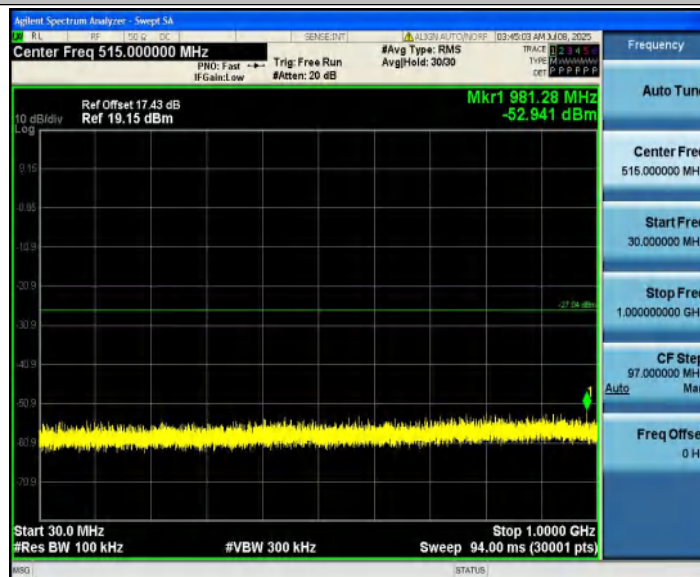
11N20SISO_Ant1_2462_1000~26500



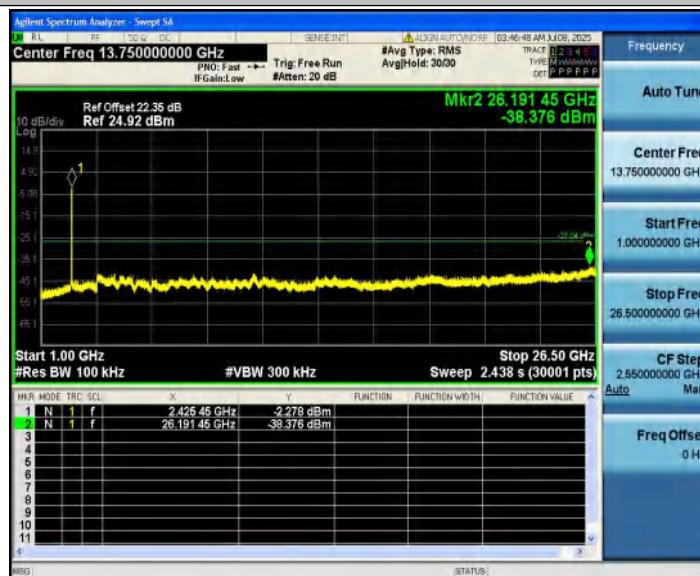
11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000



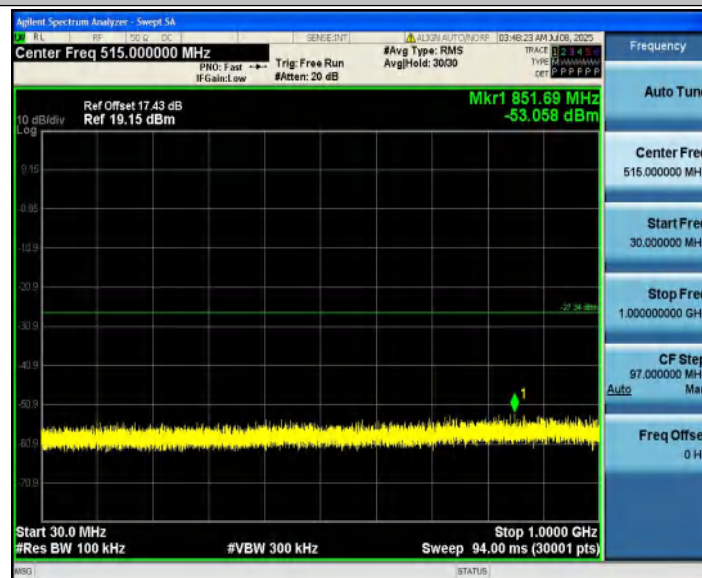
11N40SISO_Ant1_2422_1000~26500



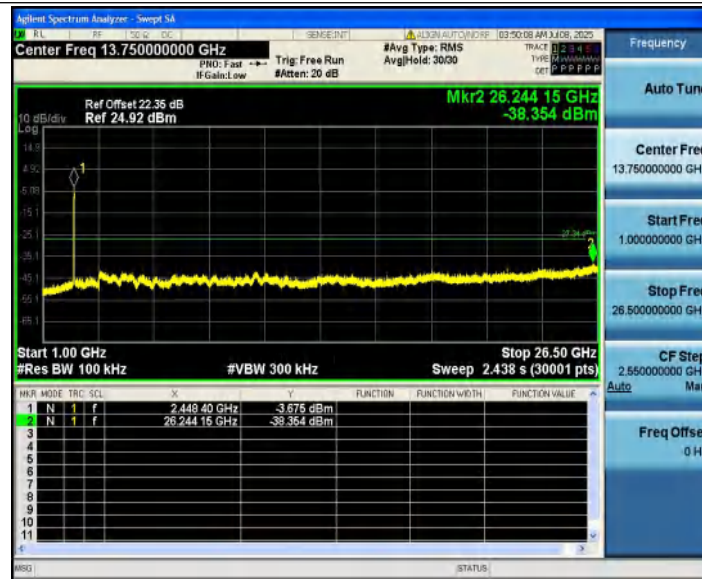
11N40SISO_Ant1_2437_0~Reference



11N40SISO_Ant1_2437_30~1000



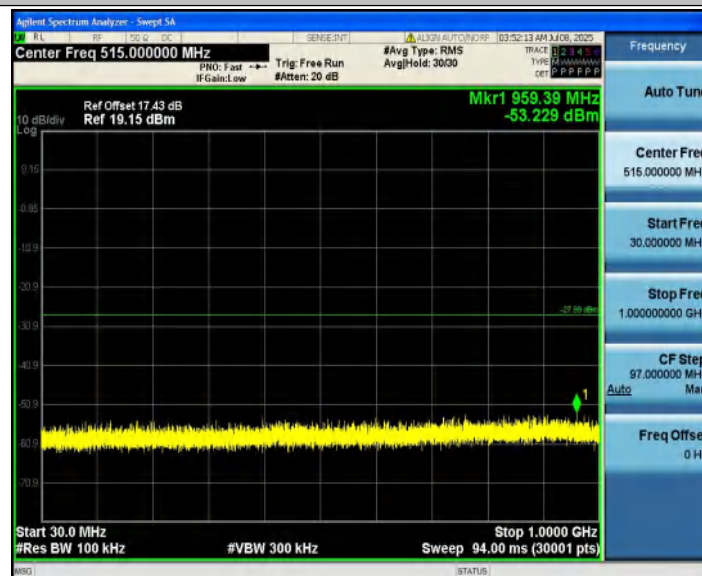
11N40SISO_Ant1_2437_1000~26500



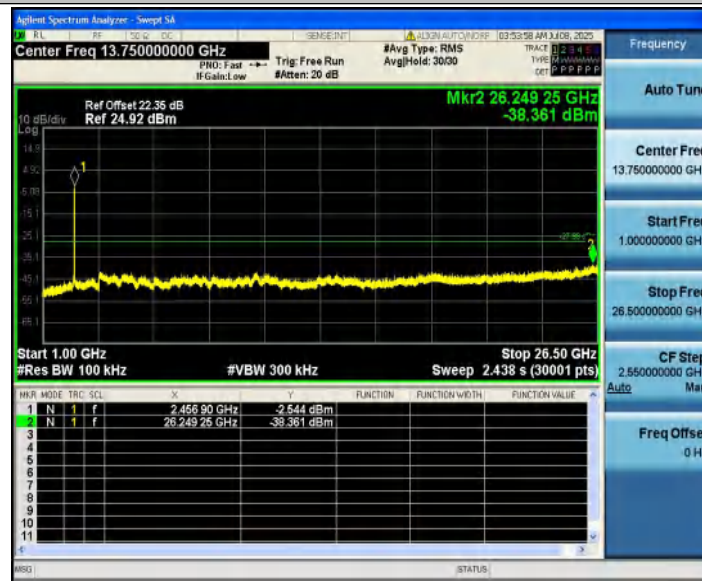
11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500



Appendix G: Duty Cycle

Test Result

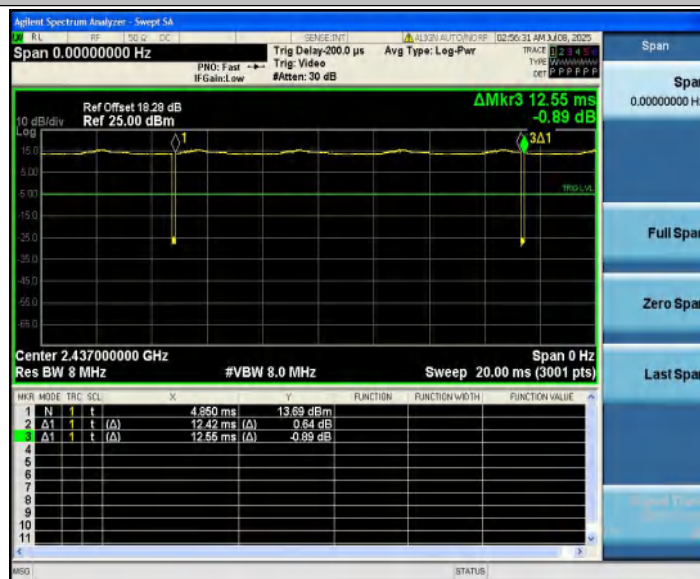
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	12.42	12.54	99.04	---	---
		2437	12.42	12.55	98.96	---	---
		2462	12.41	12.54	98.96	---	---
11G	Ant1	2412	2.07	2.20	94.09	---	---
		2437	2.07	2.20	94.09	---	---
		2462	2.06	2.19	94.06	---	---
11N20SISO	Ant1	2412	1.92	2.05	93.66	---	---
		2437	1.92	2.05	93.66	---	---
		2462	1.92	2.05	93.66	---	---
11N40SISO	Ant1	2422	0.94	1.07	87.85	---	---
		2437	0.94	1.07	87.85	---	---
		2452	0.94	1.07	87.85	---	---

Test Graphs

11B_Ant1_2412



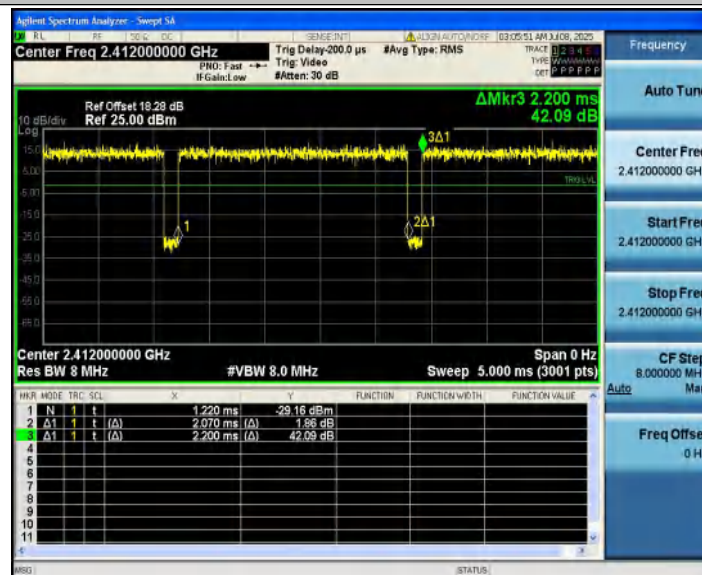
11B_Ant1_2437



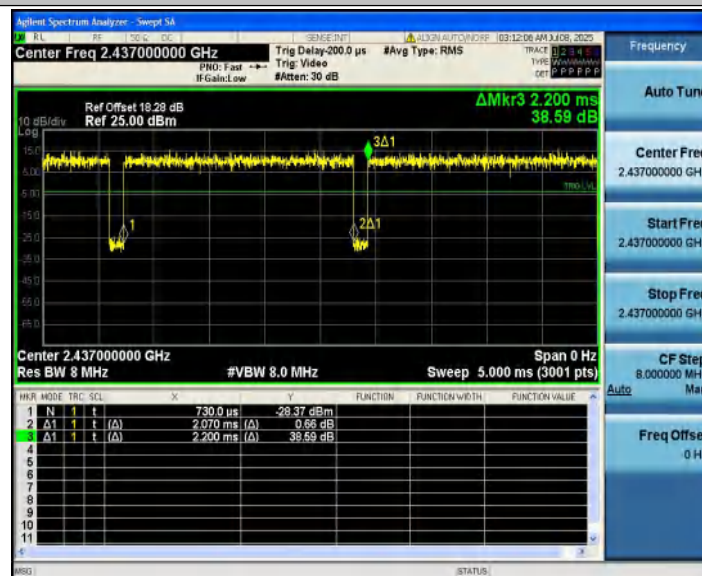
11B_Ant1_2462

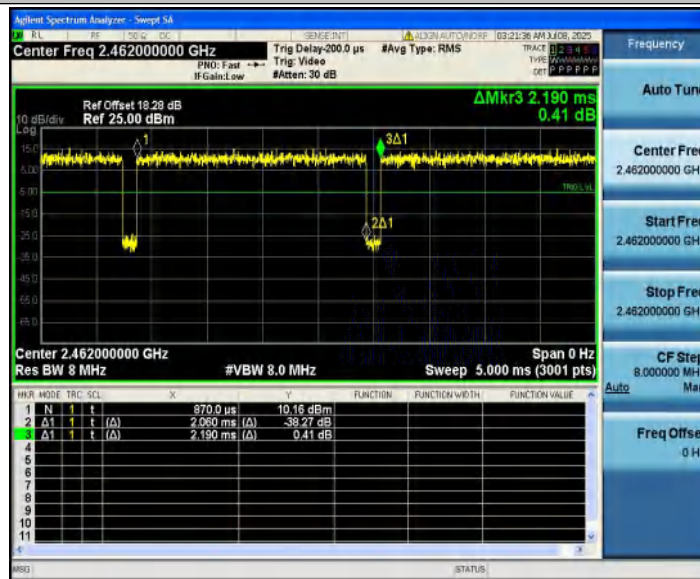


11G_Ant1_2412



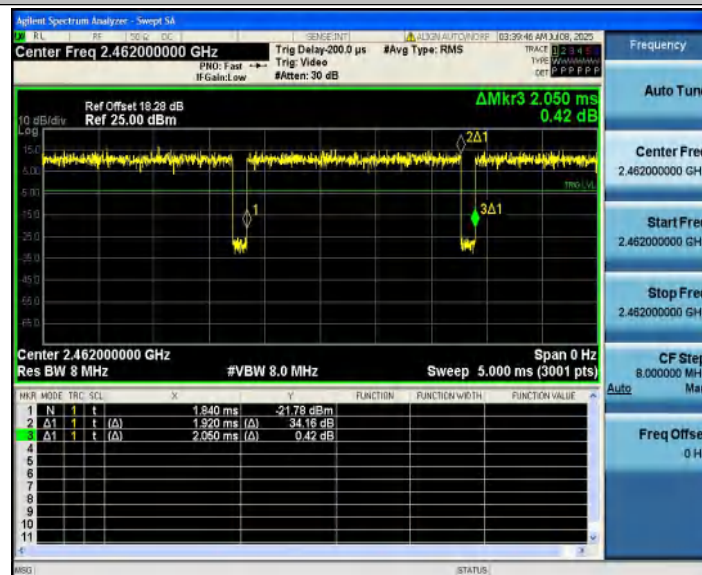
11G_Ant1_2437



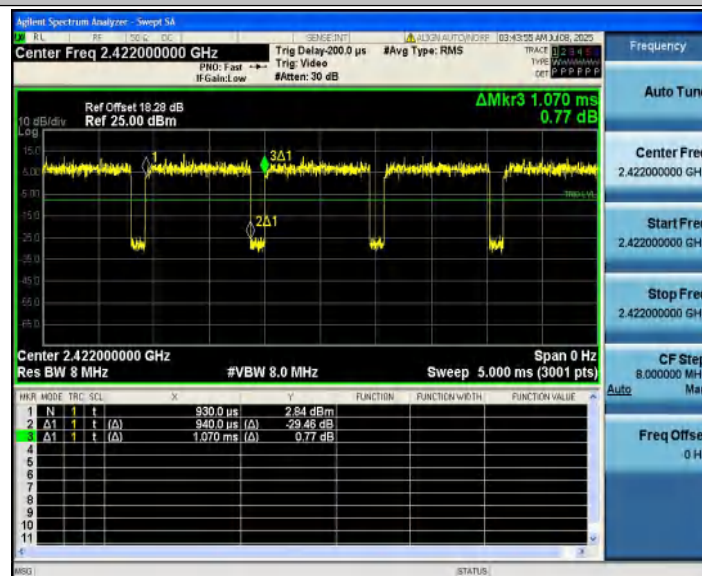




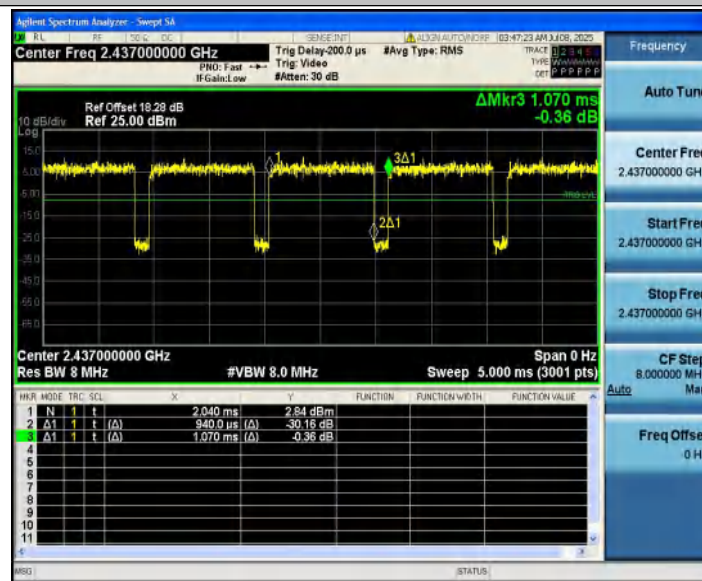
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

