

Applicant: Lexiangzhe Technology (Shenzhen) Co., LTD

Case No. : TH2406287-C01

EUT: Wireless Transmitter & Receiver kit

M/N: WTR21

Standard: FCC PART 15 C 15.247

Test Power Supply: NA

Ambient Condition: 24.8 °C, 41 %RH, 101.325 kPa

Test Date: #tdvalue

Test Engineer: #tevalue

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.520	2407.000	2416.520	0.5	PASS
		2437	10.000	2432.000	2442.000	0.5	PASS
		2462	10.000	2457.000	2467.000	0.5	PASS
11G	Ant1	2412	15.040	2404.480	2419.520	0.5	PASS
		2437	15.080	2429.440	2444.520	0.5	PASS
		2462	15.080	2454.480	2469.560	0.5	PASS
11N20SISO	Ant1	2412	15.040	2404.480	2419.520	0.5	PASS
		2437	15.080	2429.480	2444.560	0.5	PASS
		2462	15.080	2454.480	2469.560	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



Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.097	2404.9631	2419.0601	---	---
		2437	14.227	2429.8728	2444.0998	---	---
		2462	14.239	2454.8723	2469.1113	---	---
11G	Ant1	2412	16.566	2403.7215	2420.2875	---	---
		2437	16.633	2428.7096	2445.3426	---	---
		2462	16.521	2453.7345	2470.2555	---	---
11N20SISO	Ant1	2412	17.666	2403.1748	2420.8408	---	---
		2437	17.644	2428.2052	2445.8492	---	---
		2462	17.720	2453.1633	2470.8833	---	---

Test Graphs

11B_Ant1_2412



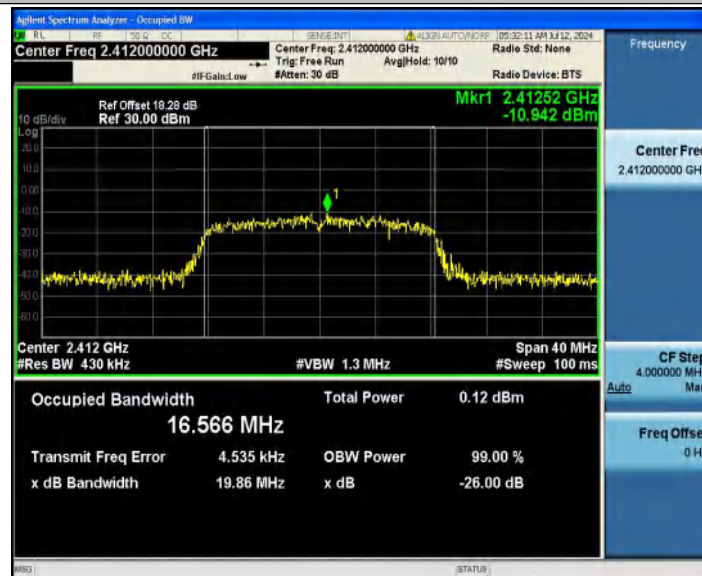
11B_Ant1_2437



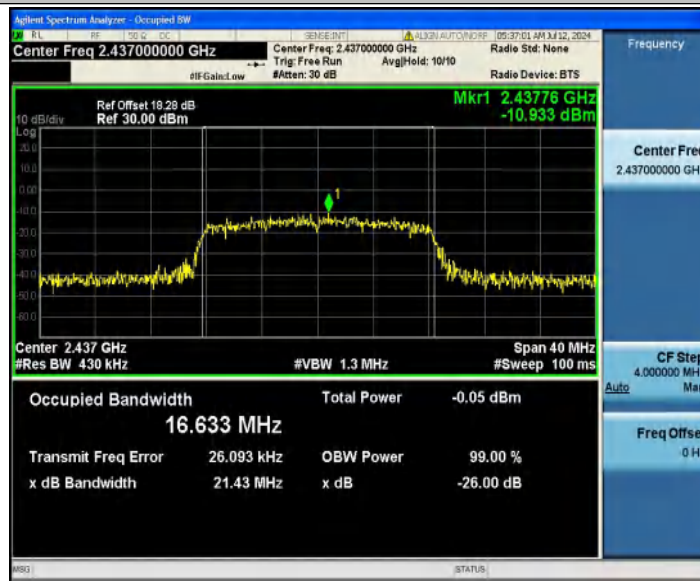
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



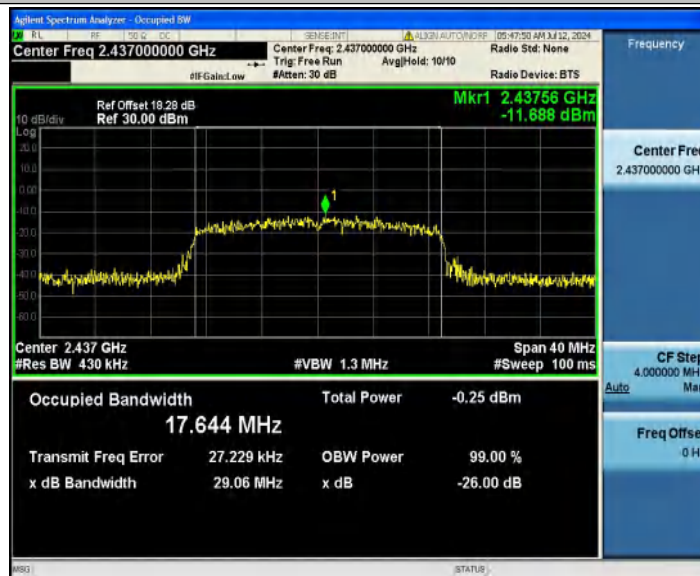
11G_Ant1_2462



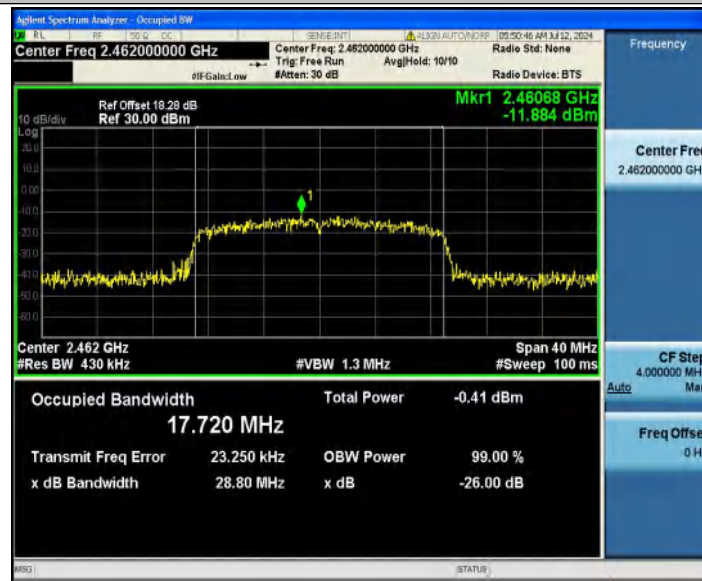
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Channel	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	EIRP [dBm]	EIRP Limit[dBm]	Verdict
11B	Ant1	2412	---	4.23	≤30.00	4.23	≤36.00	PASS
		2437	---	4.02	≤30.00	4.02	≤36.00	PASS
		2462	---	3.34	≤30.00	3.34	≤36.00	PASS
11G	Ant1	2412	---	4.50	≤30.00	4.50	≤36.00	PASS
		2437	---	4.48	≤30.00	4.48	≤36.00	PASS
		2462	---	4.12	≤30.00	4.12	≤36.00	PASS
11N20SIS O	Ant1	2412	---	4.18	≤30.00	4.18	≤36.00	PASS
		2437	---	4.10	≤30.00	4.10	≤36.00	PASS
		2462	---	3.93	≤30.00	3.93	≤36.00	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-19.94	≤8.00	PASS
		2437	-20.8	≤8.00	PASS
		2462	-21.71	≤8.00	PASS
11G	Ant1	2412	-27.56	≤8.00	PASS
		2437	-26.13	≤8.00	PASS
		2462	-27.18	≤8.00	PASS
11N20SISO	Ant1	2412	-26.71	≤8.00	PASS
		2437	-27.91	≤8.00	PASS
		2462	-27.2	≤8.00	PASS

Test Graphs

11B_Ant1_2412



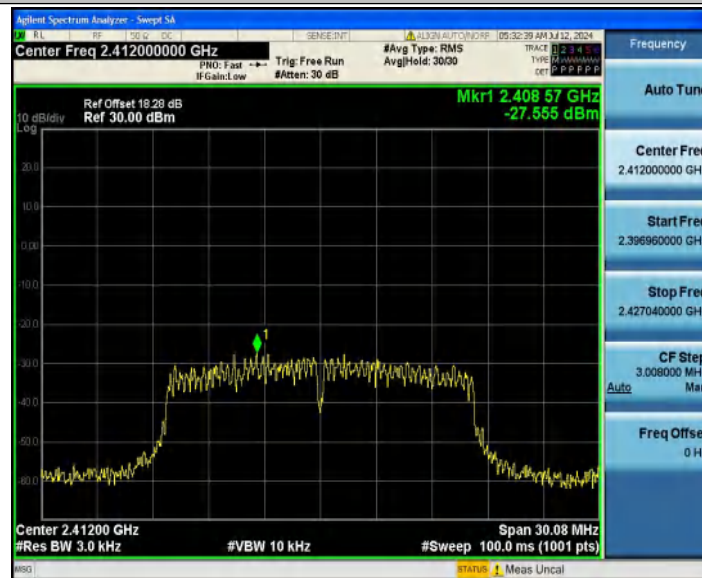
11B_Ant1_2437



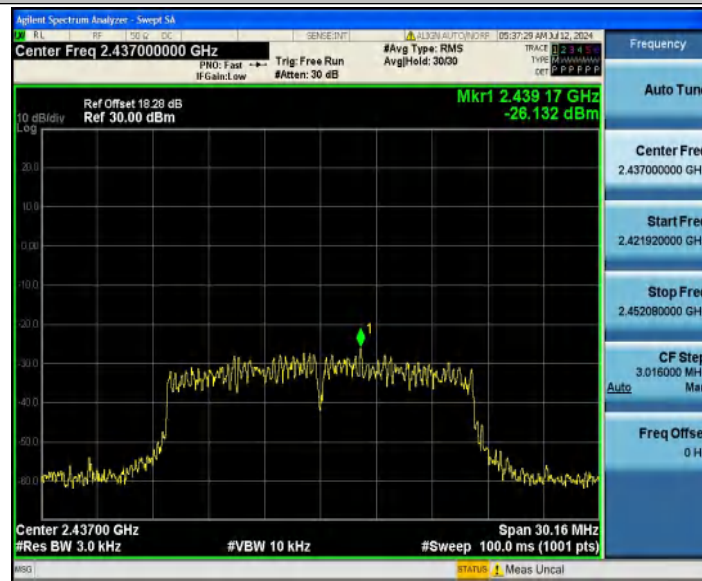
11B_Ant1_2462



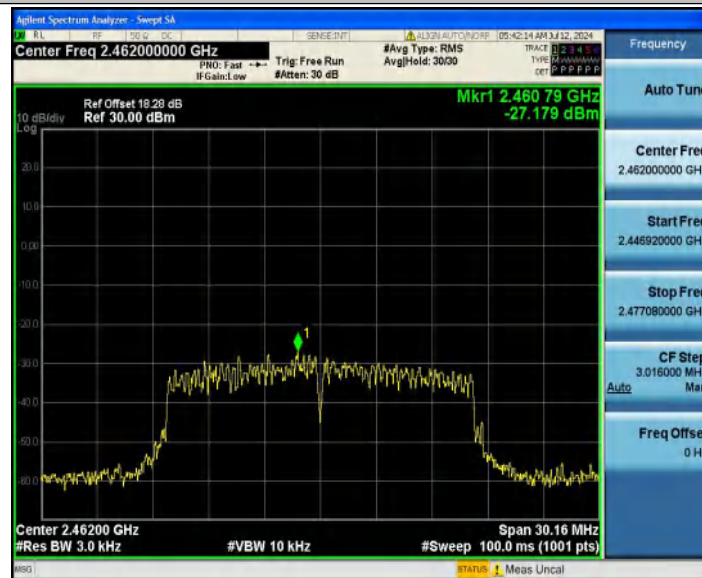
11G_Ant1_2412



11G_Ant1_2437



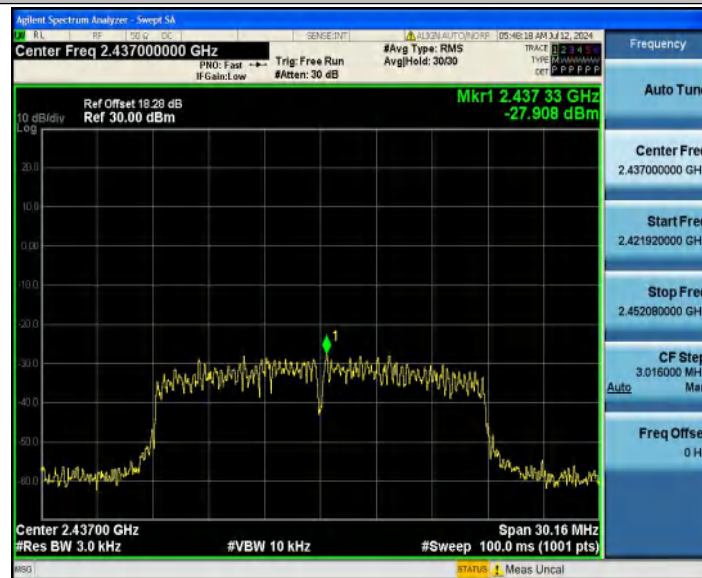
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



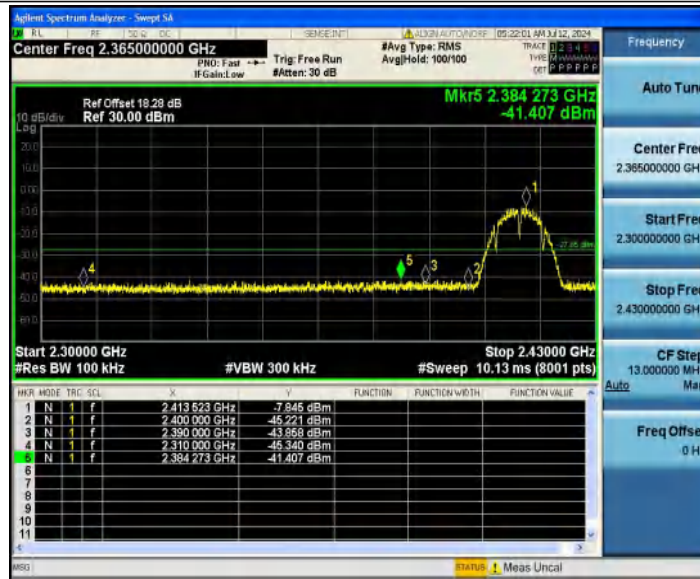
Appendix E: Band edge measurements

Test Result

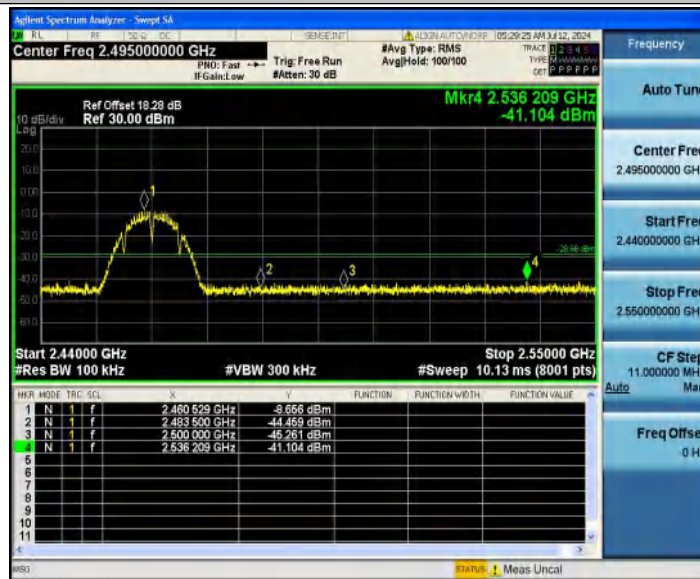
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-7.85	-41.41	≤ -27.85	PASS
		High	2462	-8.66	-41.1	≤ -28.66	PASS
11G	Ant1	Low	2412	-14.80	-41.64	≤ -34.8	PASS
		High	2462	-15.37	-41.35	≤ -35.37	PASS
11N20SISO	Ant1	Low	2412	-13.99	-39.88	≤ -33.99	PASS
		High	2462	-14.87	-40.81	≤ -34.87	PASS

Test Graphs

11B_Ant1_Low_2412



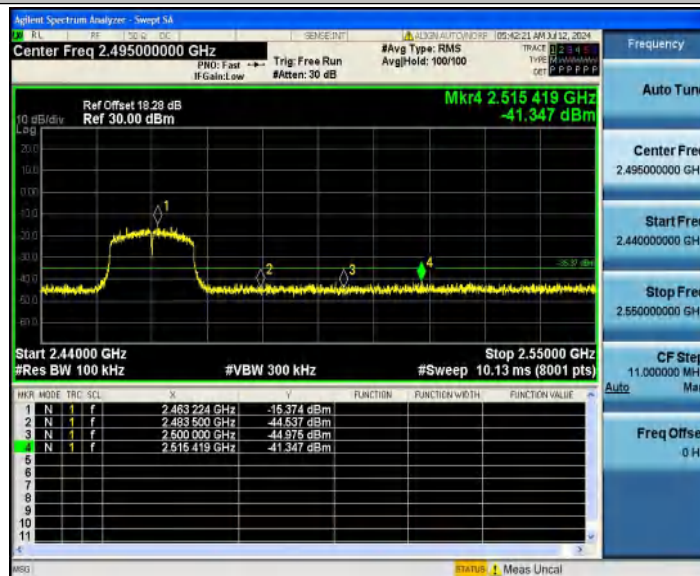
11B_Ant1_High_2462



11G_Ant1_Low_2412



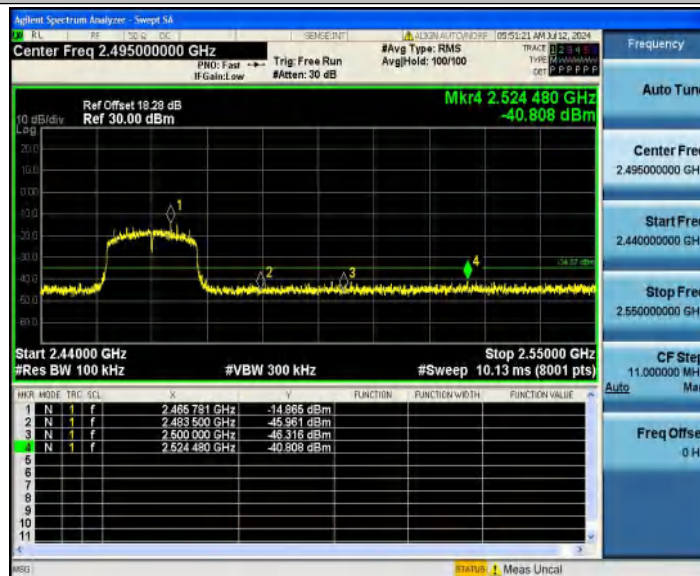
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

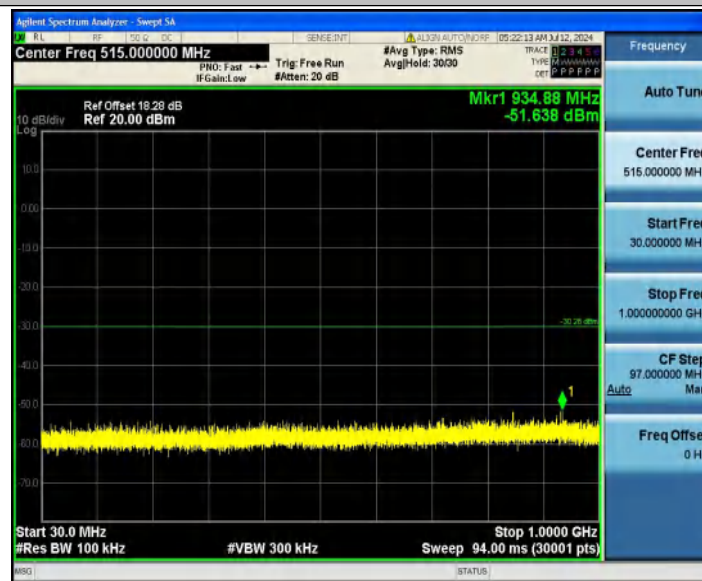
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-10.28	-10.28	---	PASS
			30~1000	-10.28	-51.64	≤-30.28	PASS
			1000~26500	-10.28	-42.6	≤-30.28	PASS
		2437	Reference	-9.07	-9.07	---	PASS
			30~1000	-9.07	-52.17	≤-29.07	PASS
			1000~26500	-9.07	-42.76	≤-29.07	PASS
		2462	Reference	-10.29	-10.29	---	PASS
			30~1000	-10.29	-51.65	≤-30.29	PASS
			1000~26500	-10.29	-42.5	≤-30.29	PASS
11G	Ant1	2412	Reference	-17.68	-17.68	---	PASS
			30~1000	-17.68	-52.4	≤-37.68	PASS
			1000~26500	-17.68	-42.81	≤-37.68	PASS
		2437	Reference	-15.95	-15.95	---	PASS
			30~1000	-15.95	-52.71	≤-35.95	PASS
			1000~26500	-15.95	-42.55	≤-35.95	PASS
		2462	Reference	-18.03	-18.03	---	PASS
			30~1000	-18.03	-52.62	≤-38.03	PASS
			1000~26500	-18.03	-42.21	≤-38.03	PASS
11N20SISO	Ant1	2412	Reference	-16.07	-16.07	---	PASS
			30~1000	-16.07	-52.44	≤-36.07	PASS
			1000~26500	-16.07	-41.73	≤-36.07	PASS
		2437	Reference	-16.46	-16.46	---	PASS
			30~1000	-16.46	-52.03	≤-36.46	PASS
			1000~26500	-16.46	-42.82	≤-36.46	PASS
		2462	Reference	-15.51	-15.51	---	PASS
			30~1000	-15.51	-52.42	≤-35.51	PASS
			1000~26500	-15.51	-42.18	≤-35.51	PASS

Test Graphs

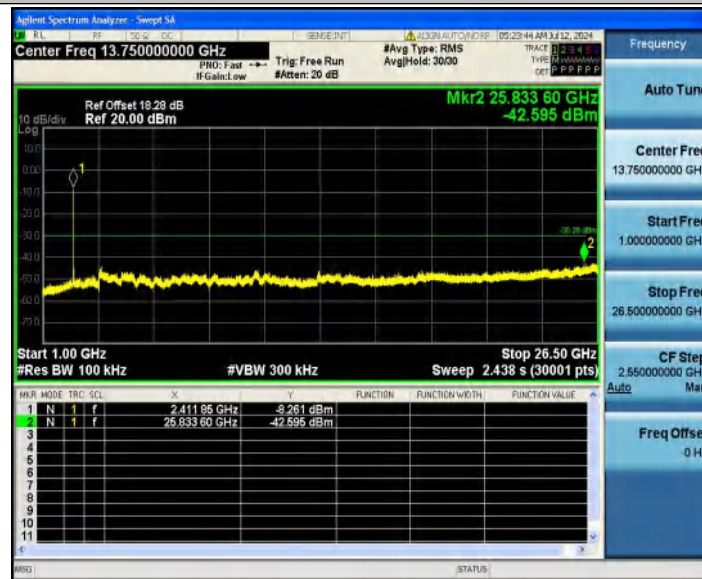
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



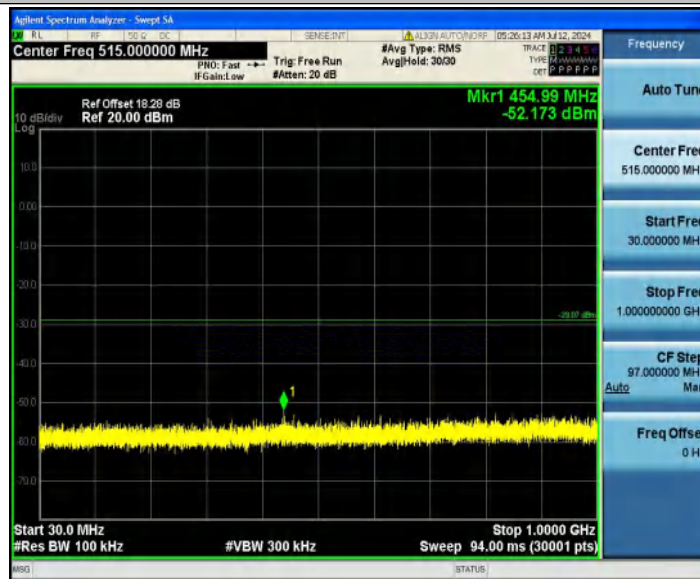
11B_Ant1_2412_1000~26500



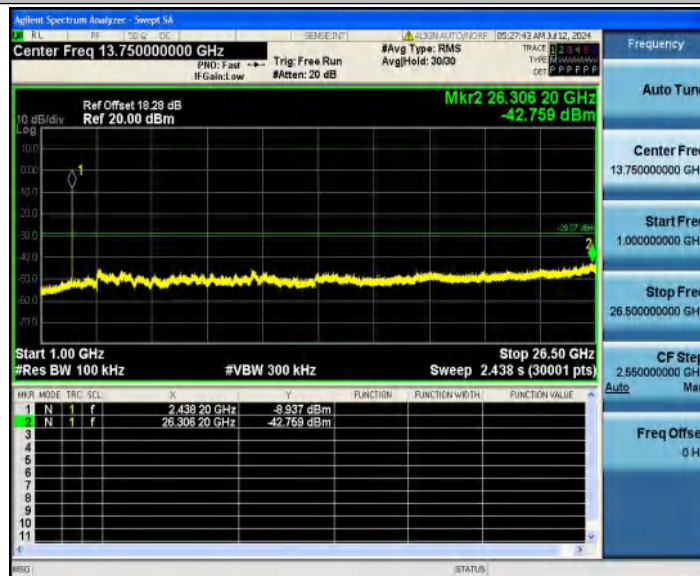
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



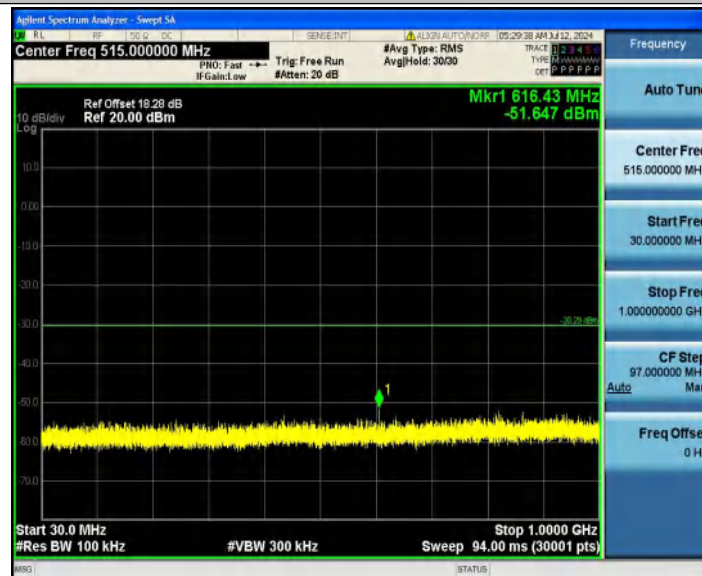
11B_Ant1_2437_1000~26500



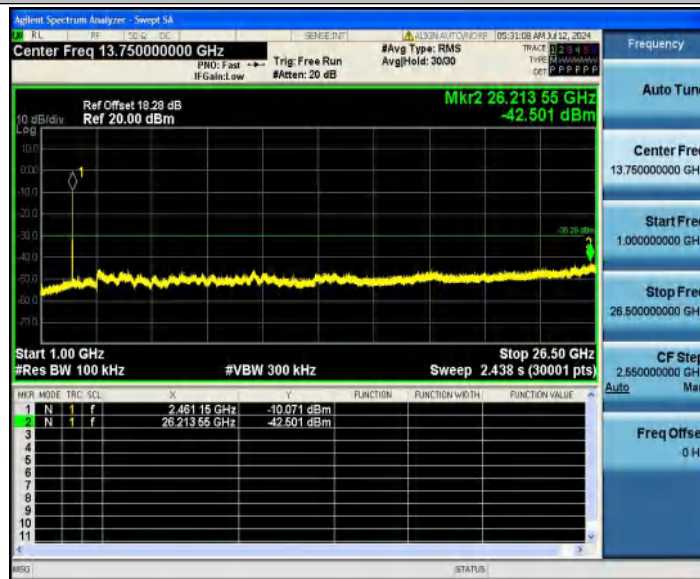
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500



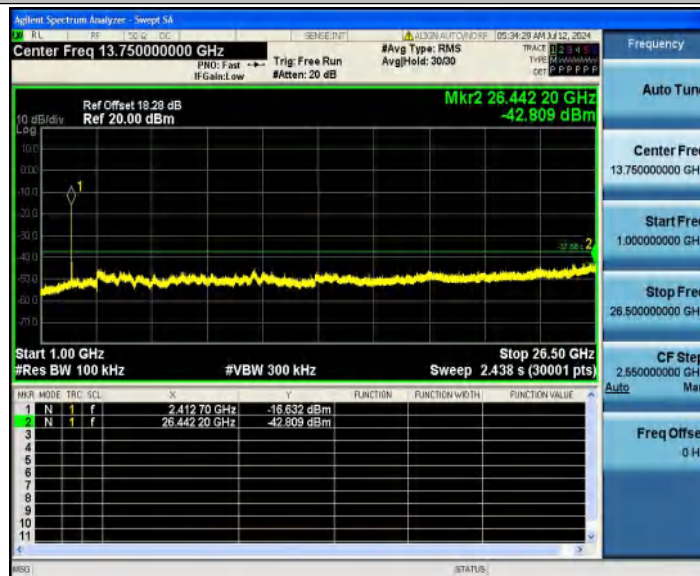
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



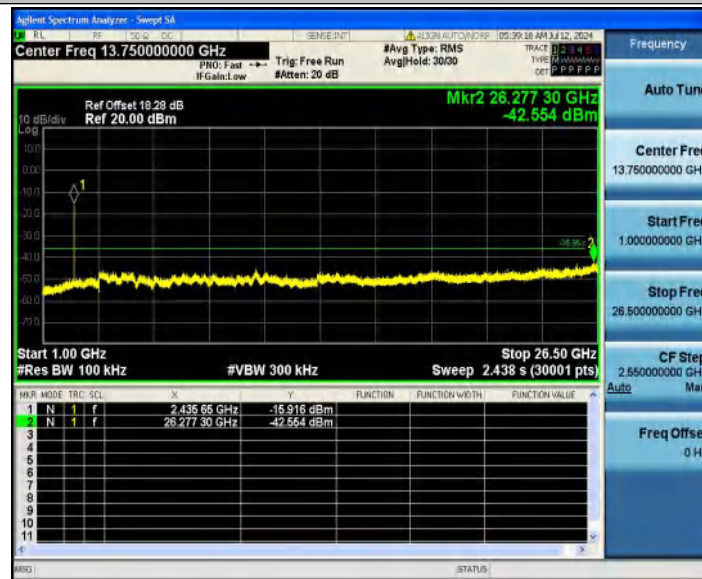
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



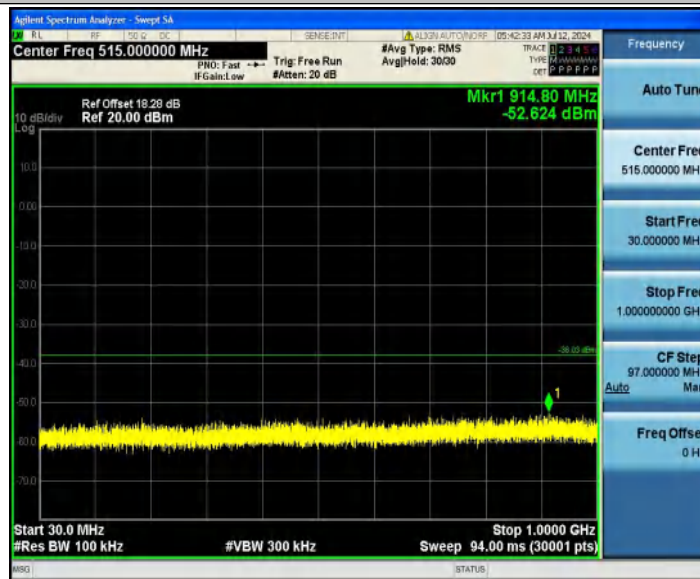
11G_Ant1_2437_1000~26500



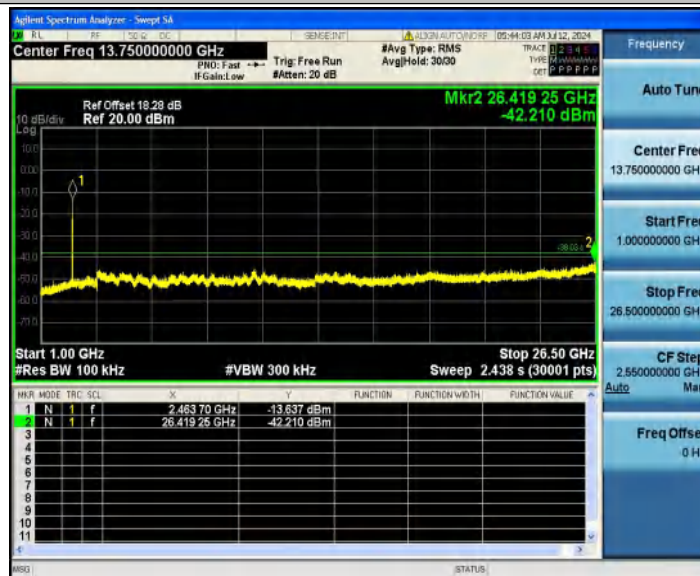
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



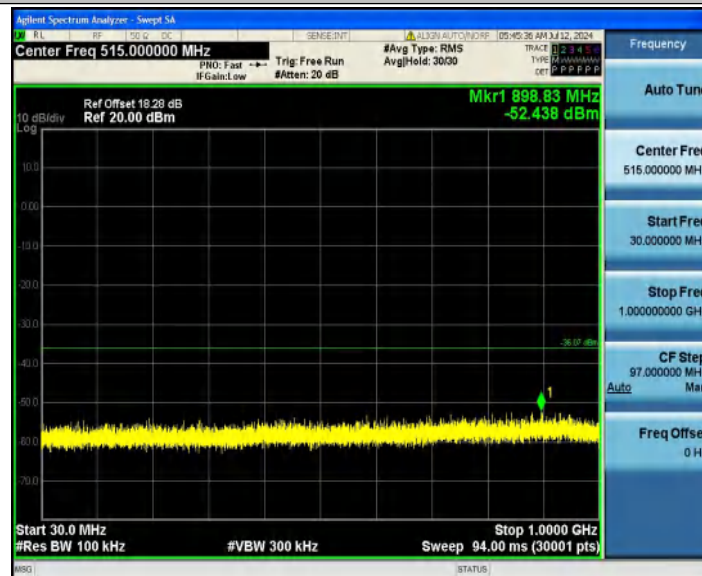
11G_Ant1_2462_1000~26500



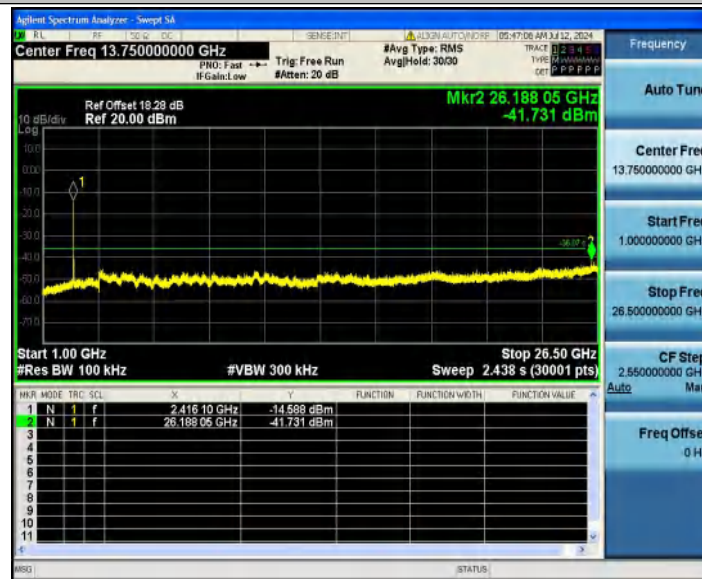
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



11N20SISO_Ant1_2412_1000~26500



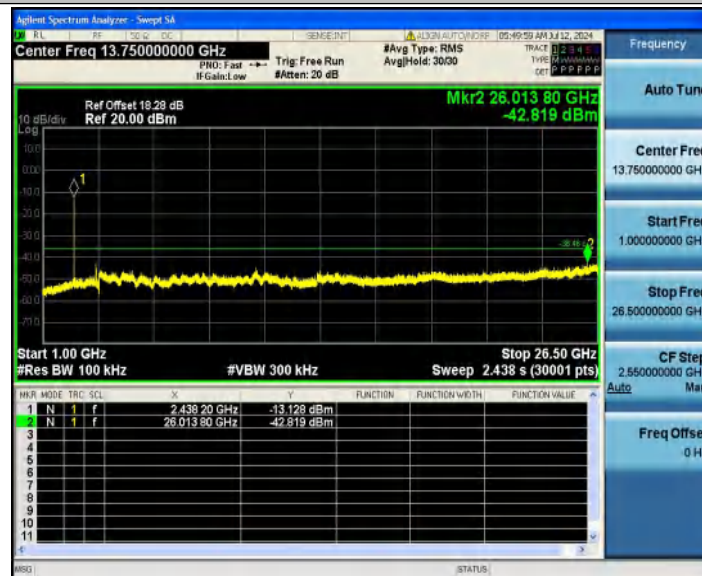
11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



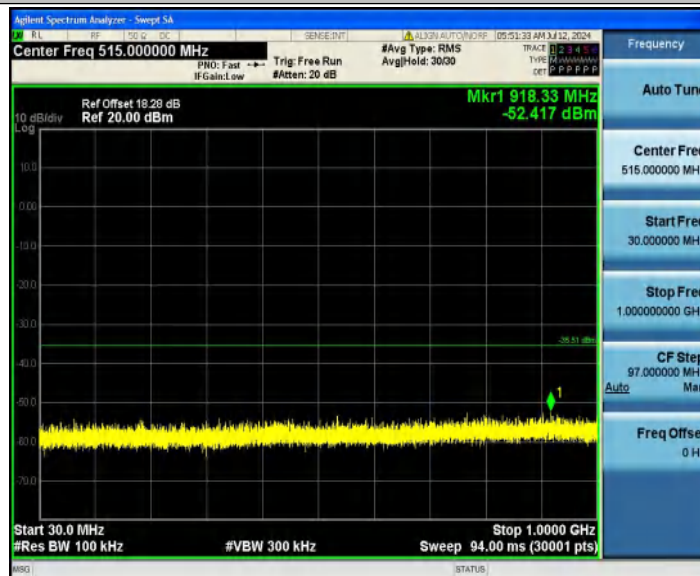
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



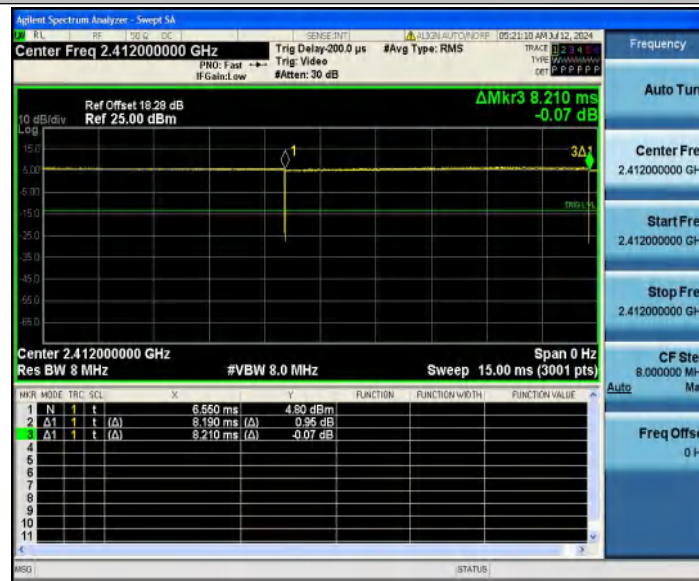
Appendix G: Duty Cycle

Test Result

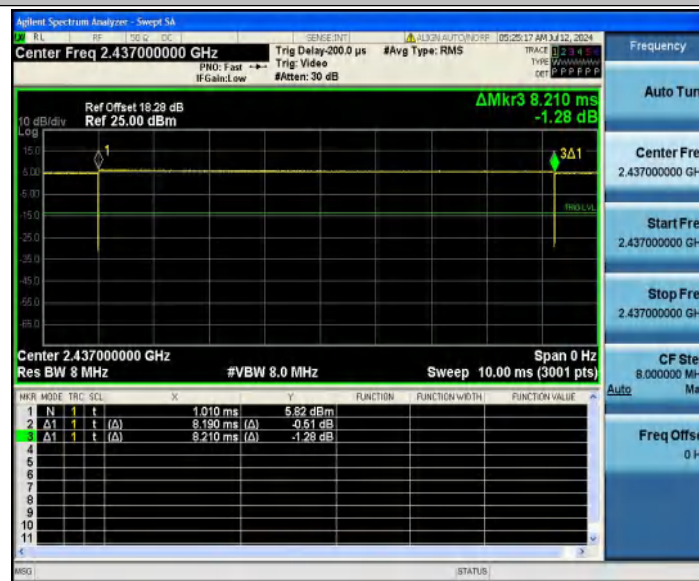
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	DC Factor [dBm]
11B	Ant1	2412	8.19	8.21	99.76	---	1.36
		2437	8.19	8.21	99.76	---	1.39
		2462	8.19	8.21	99.76	---	1.39
11G	Ant1	2412	1.36	1.86	73.12	---	1.47
		2437	1.36	1.86	73.12	---	1.44
		2462	1.36	1.86	73.12	---	1.43
11N20SISO	Ant1	2412	1.27	1.77	71.75	---	1.36
		2437	1.28	1.78	71.91	---	1.39
		2462	1.27	1.78	71.35	---	1.39

Test Graphs

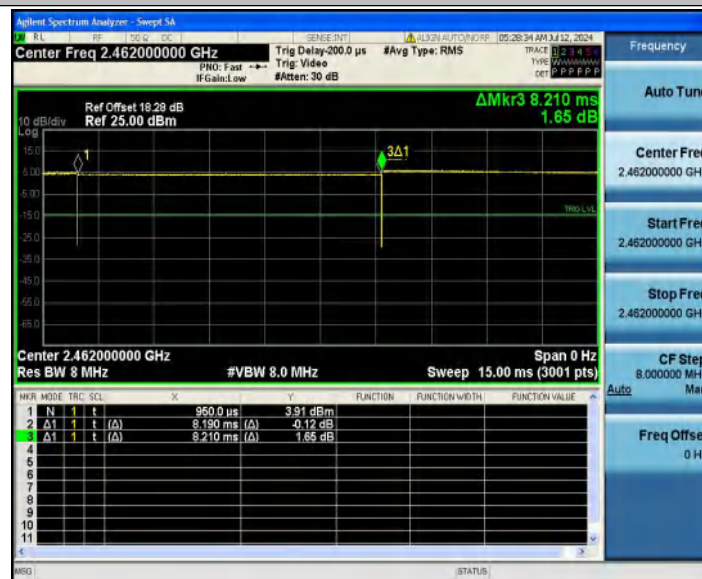
11B_Ant1_2412



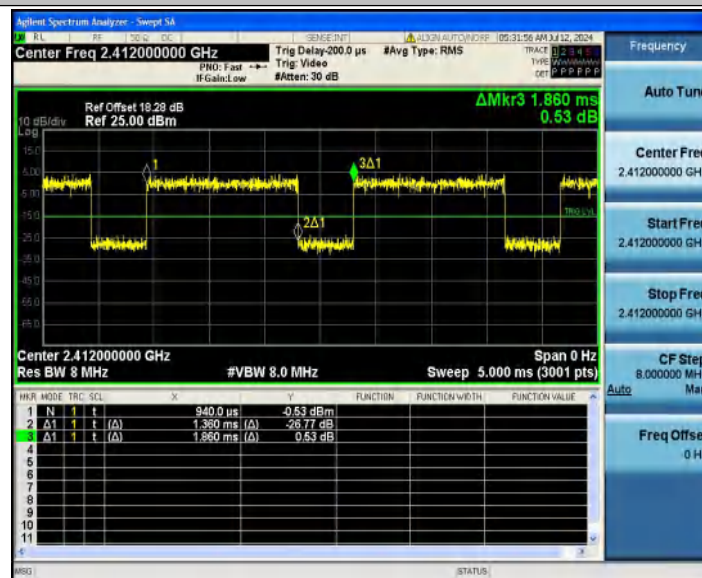
11B_Ant1_2437



11B_Ant1_2462



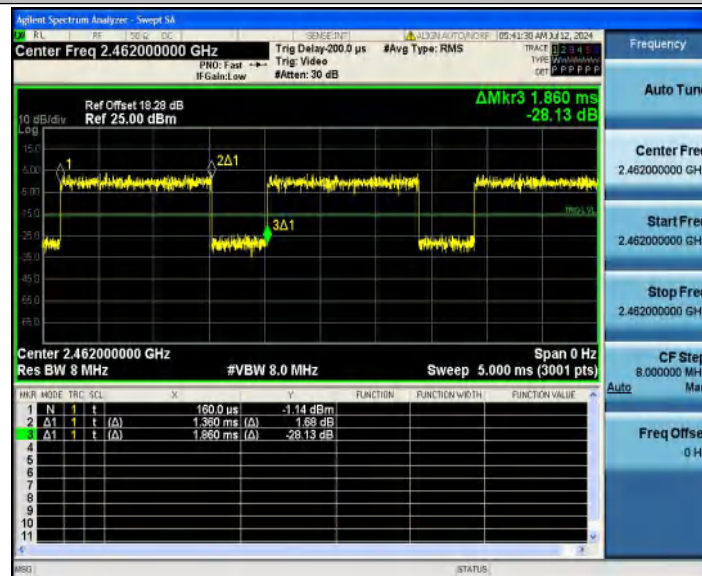
11G_Ant1_2412



11G_Ant1_2437



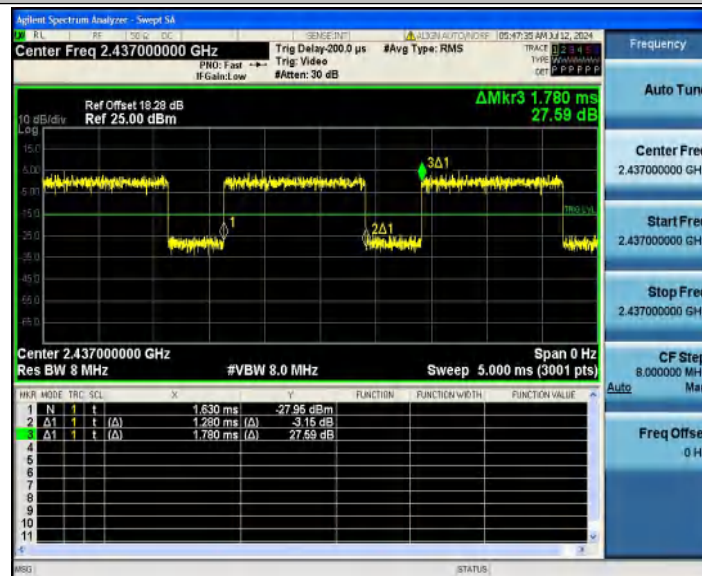
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

