

Applicant: Shenzhen Anboqi Technology Co., Ltd.

Case No. : TH2409439-C04

EUT: Battery camera

M/N: ABQ-Q9

Standard: FCC PART 15 C 15.247

Test Power Supply: NA

Ambient Condition: 25.4 °C, 41 %RH, 101.325 kPa

Test Date: 2024.10.11

Test Engineer: Blue

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.520	2407.520	2417.040	0.5	PASS
		2437	10.000	2432.040	2442.040	0.5	PASS
		2462	10.000	2457.040	2467.040	0.5	PASS
11G	Ant1	2412	16.040	2404.160	2420.200	0.5	PASS
		2437	16.280	2428.920	2445.200	0.5	PASS
		2462	16.280	2453.920	2470.200	0.5	PASS
11N20SISO	Ant1	2412	16.640	2403.920	2420.560	0.5	PASS
		2437	16.520	2428.920	2445.440	0.5	PASS
		2462	16.760	2453.640	2470.400	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

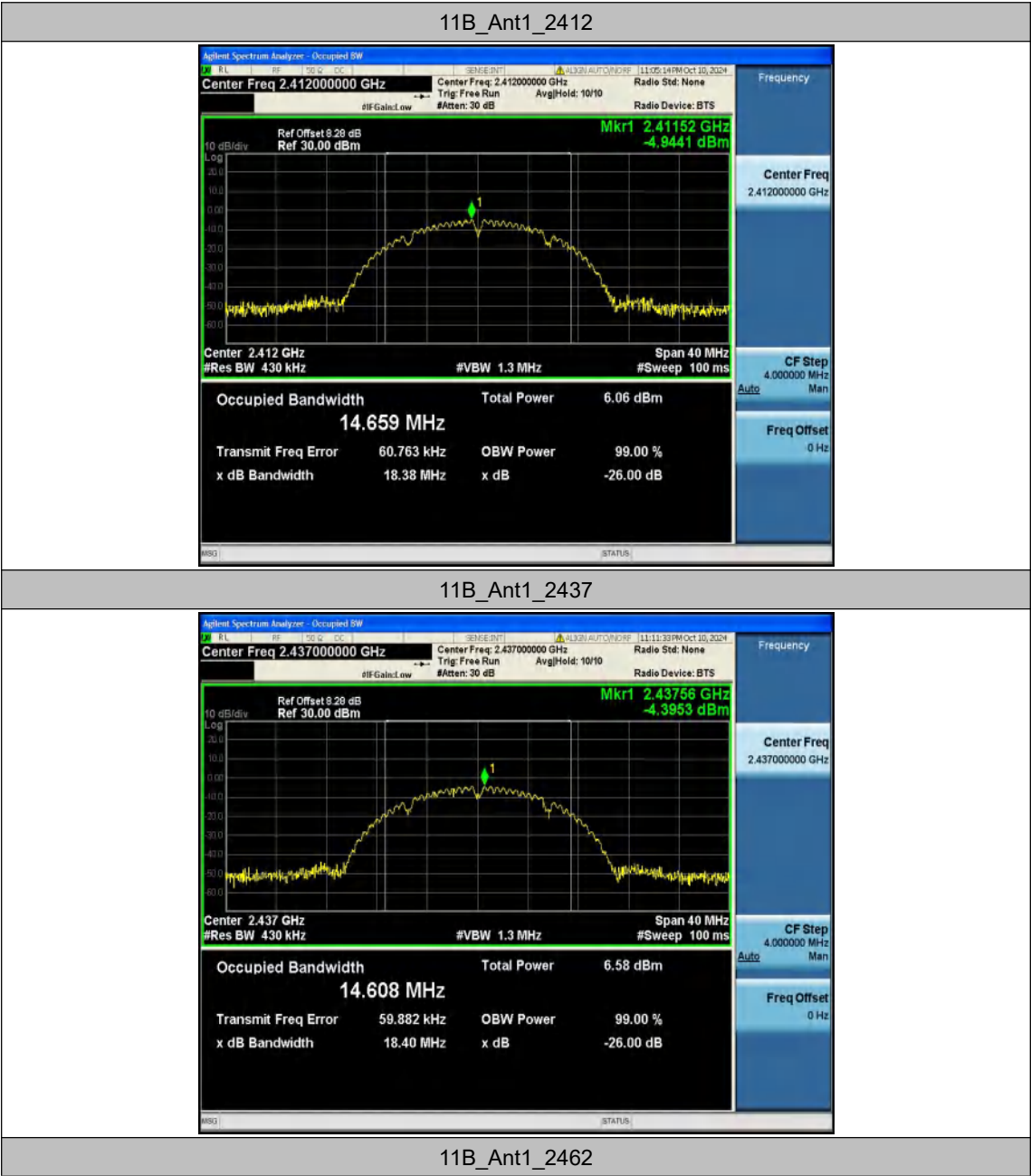


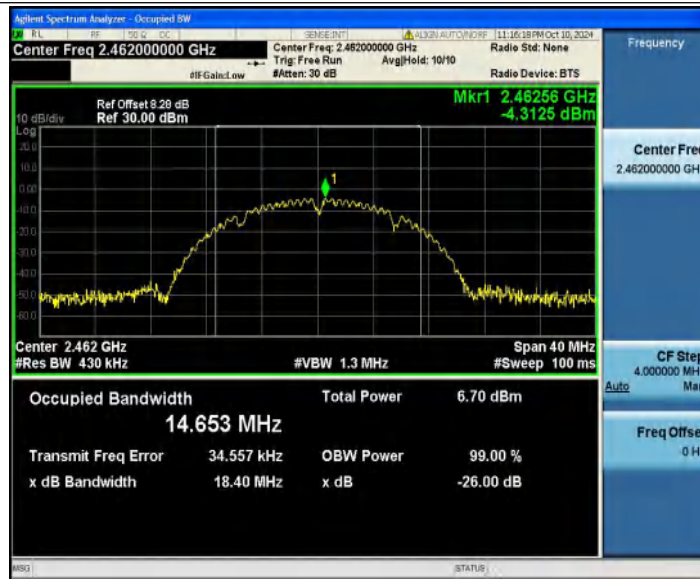
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.659	2404.7313	2419.3903	---	---
		2437	14.608	2429.7559	2444.3639	---	---
		2462	14.653	2454.7081	2469.3611	---	---
11G	Ant1	2412	16.514	2403.7929	2420.3069	---	---
		2437	16.657	2428.7151	2445.3721	---	---
		2462	16.714	2453.6461	2470.3601	---	---
11N20SISO	Ant1	2412	17.640	2403.2294	2420.8694	---	---
		2437	17.624	2428.2299	2445.8539	---	---
		2462	17.623	2453.2457	2470.8687	---	---

Test Graphs

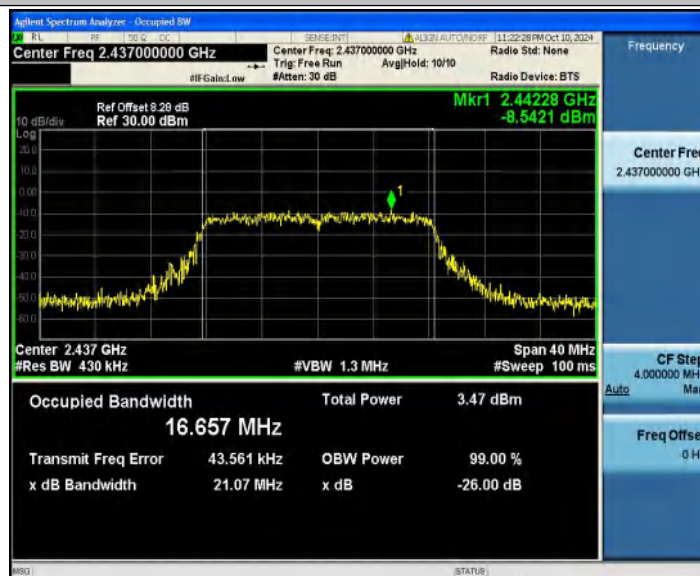




11G_Ant1_2412



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]	Verdict
11B	Ant1	2412	---	6.44	≤30.00	PASS
		2437	---	5.85	≤30.00	PASS
		2462	---	6.01	≤30.00	PASS
11G	Ant1	2412	---	6.74	≤30.00	PASS
		2437	---	6.78	≤30.00	PASS
		2462	---	6.07	≤30.00	PASS
11N20SISO	Ant1	2412	---	6.03	≤30.00	PASS
		2437	---	6.74	≤30.00	PASS
		2462	---	6.45	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-17.37	≤8.00	PASS
		2437	-16.99	≤8.00	PASS
		2462	-17.62	≤8.00	PASS
11G	Ant1	2412	-24.89	≤8.00	PASS
		2437	-24.7	≤8.00	PASS
		2462	-22.57	≤8.00	PASS
11N20SISO	Ant1	2412	-24.88	≤8.00	PASS
		2437	-23.85	≤8.00	PASS
		2462	-24.47	≤8.00	PASS

Test Graphs

11B_Ant1_2412



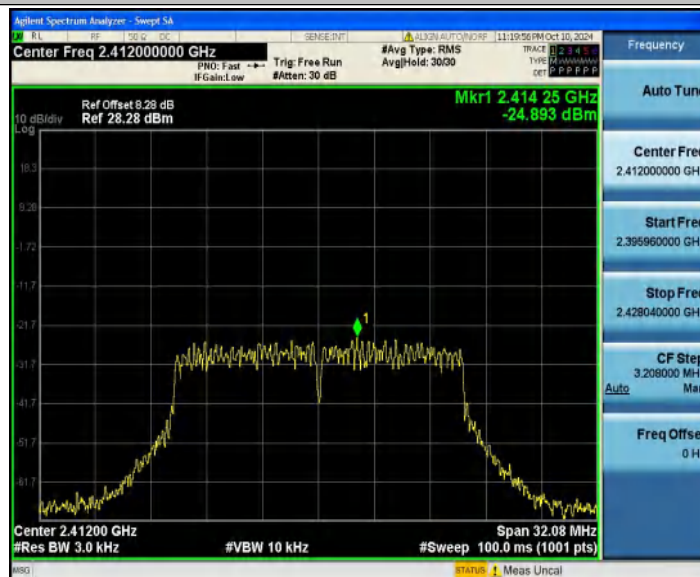
11B_Ant1_2437



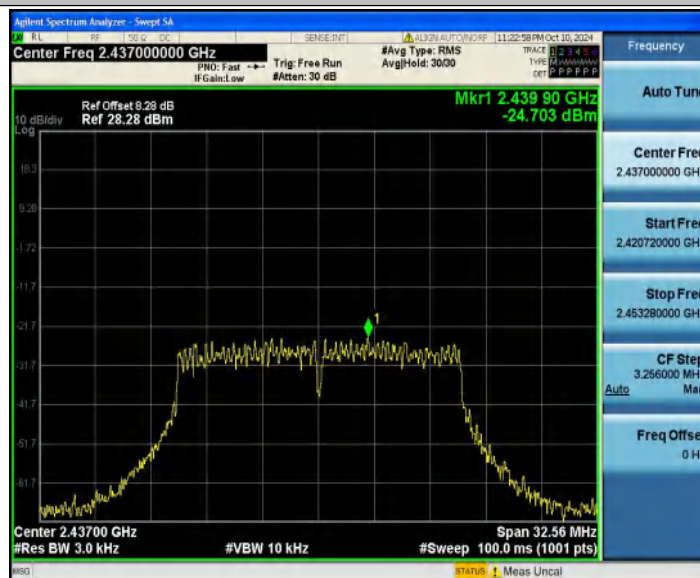
11B_Ant1_2462



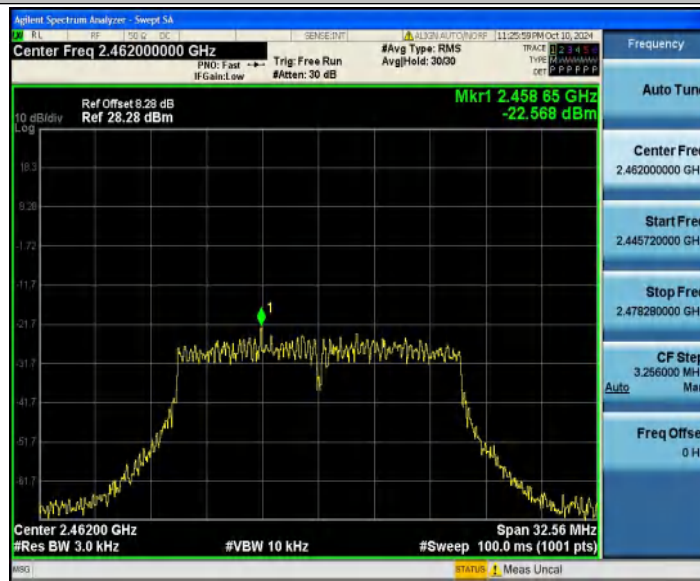
11G_Ant1_2412



11G_Ant1_2437



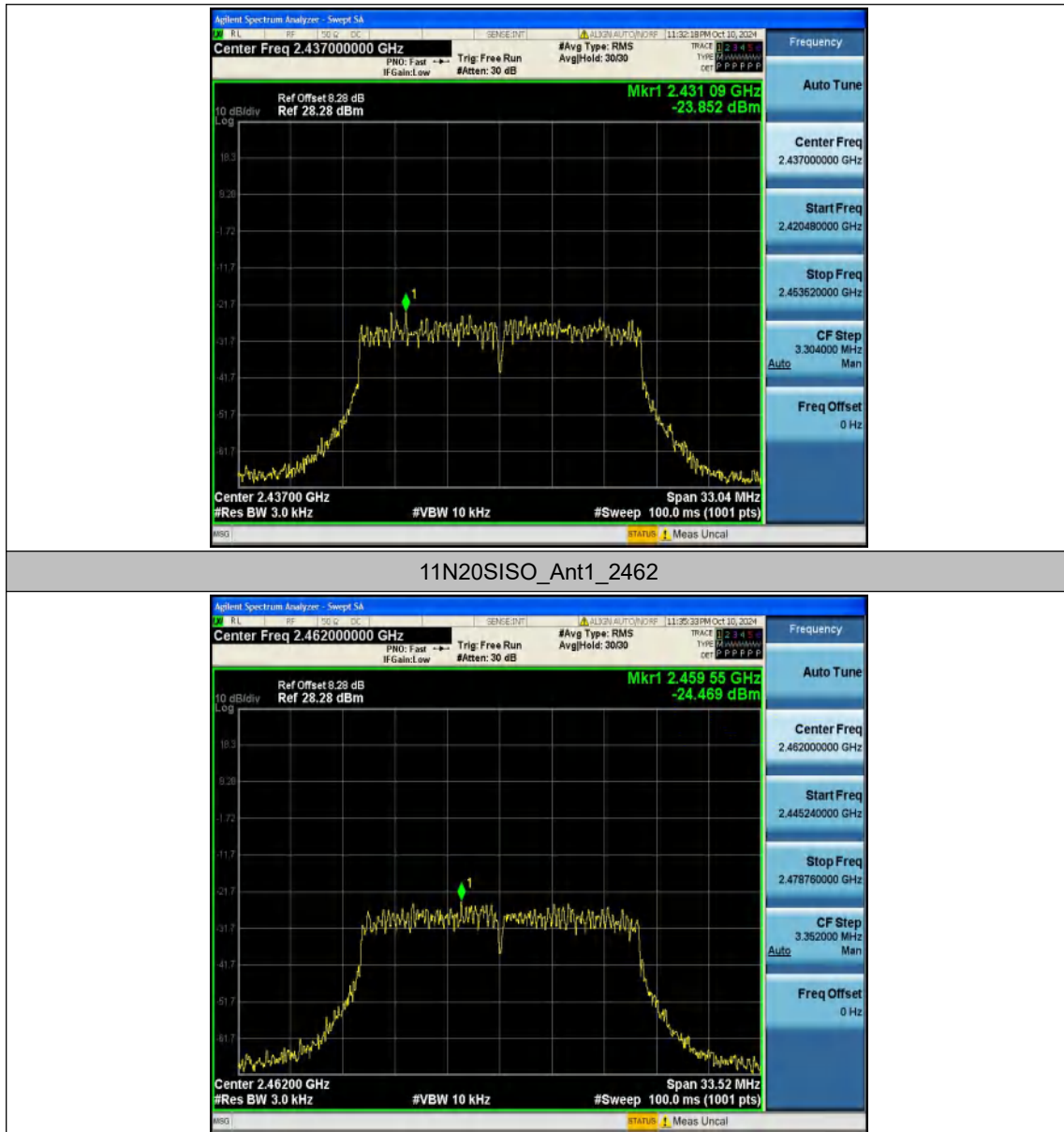
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

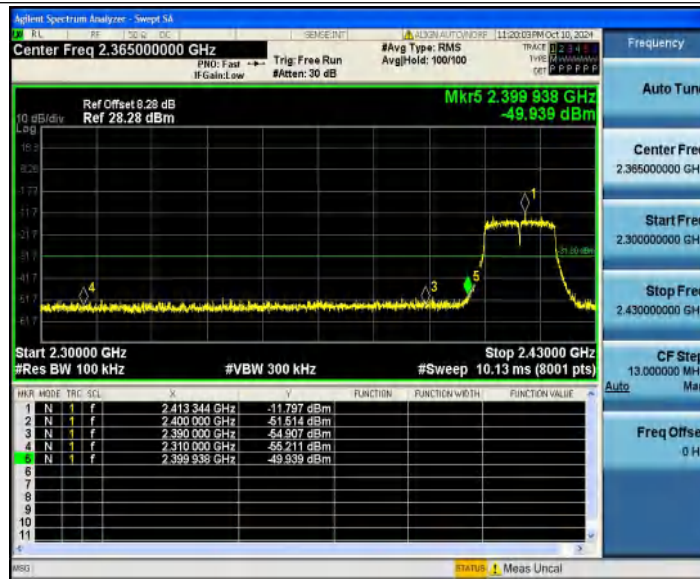


Appendix E: Band edge measurements

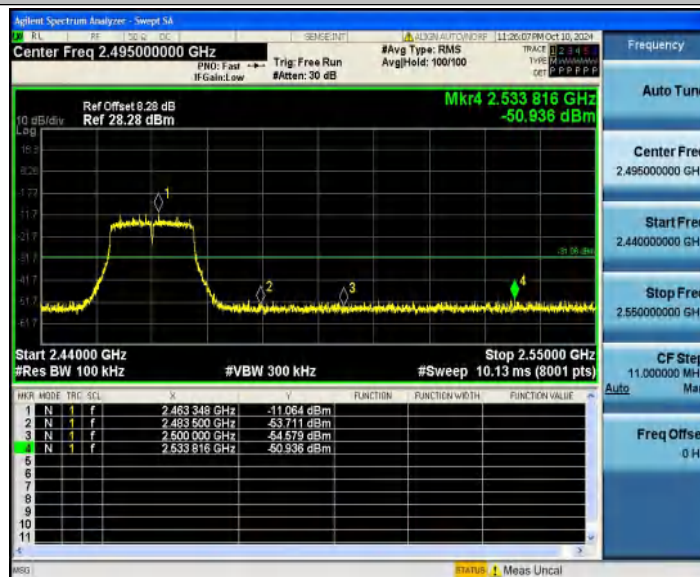
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-5.66	-49.22	≤ -25.66	PASS
		High	2462	-4.35	-50.57	≤ -24.35	PASS
11G	Ant1	Low	2412	-11.80	-49.94	≤ -31.8	PASS
		High	2462	-11.06	-50.94	≤ -31.06	PASS
11N20SISO	Ant1	Low	2412	-12.11	-47.99	≤ -32.11	PASS
		High	2462	-12.22	-50.58	≤ -32.22	PASS

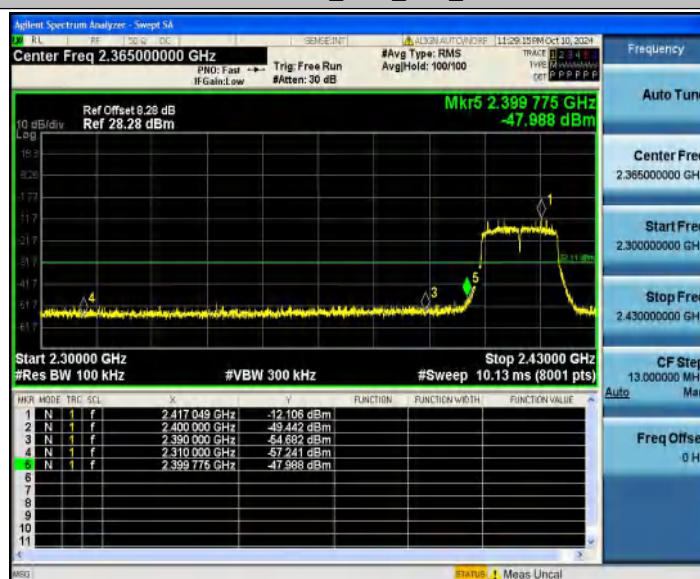




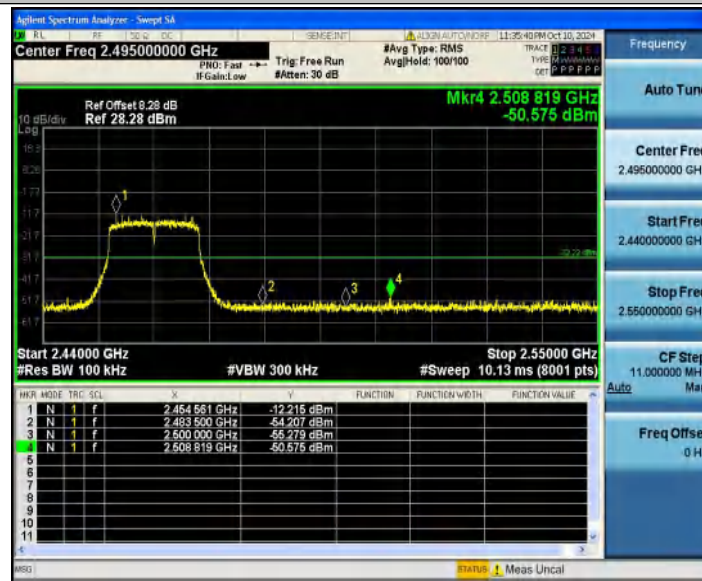
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

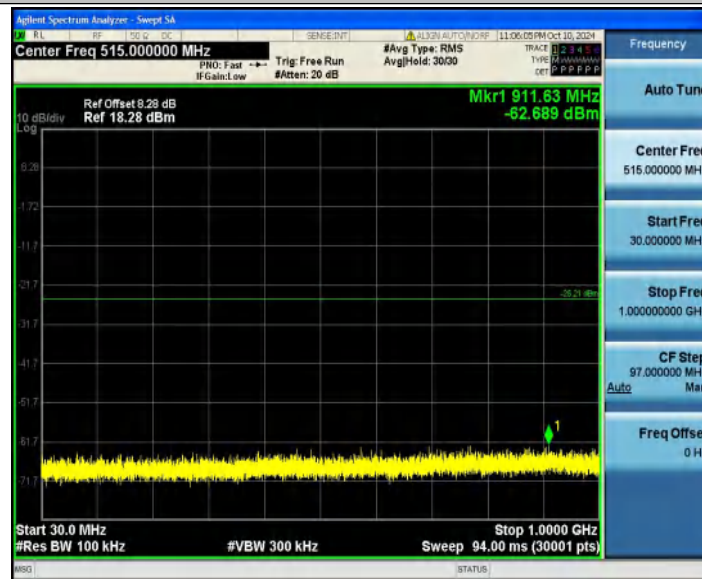
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-5.21	-5.21	---	PASS
			30~1000	-5.21	-62.69	≤-25.21	PASS
			1000~26500	-5.21	-52.08	≤-25.21	PASS
		2437	Reference	-5.99	-5.99	---	PASS
			30~1000	-5.99	-62.38	≤-25.99	PASS
			1000~26500	-5.99	-52.43	≤-25.99	PASS
		2462	Reference	-5.43	-5.43	---	PASS
			30~1000	-5.43	-62.54	≤-25.43	PASS
			1000~26500	-5.43	-53.19	≤-25.43	PASS
11G	Ant1	2412	Reference	-13.90	-13.90	---	PASS
			30~1000	-13.90	-62.39	≤-33.9	PASS
			1000~26500	-13.90	-51.81	≤-33.9	PASS
		2437	Reference	-12.78	-12.78	---	PASS
			30~1000	-12.78	-62.25	≤-32.78	PASS
			1000~26500	-12.78	-52.3	≤-32.78	PASS
		2462	Reference	-14.03	-14.03	---	PASS
			30~1000	-14.03	-62.48	≤-34.03	PASS
			1000~26500	-14.03	-52.45	≤-34.03	PASS
11N20SISO	Ant1	2412	Reference	-14.10	-14.10	---	PASS
			30~1000	-14.10	-62.87	≤-34.1	PASS
			1000~26500	-14.10	-52.65	≤-34.1	PASS
		2437	Reference	-11.40	-11.40	---	PASS
			30~1000	-11.40	-62.58	≤-31.4	PASS
			1000~26500	-11.40	-52.15	≤-31.4	PASS
		2462	Reference	-13.41	-13.41	---	PASS
			30~1000	-13.41	-62.8	≤-33.41	PASS
			1000~26500	-13.41	-52.47	≤-33.41	PASS

Test Graphs

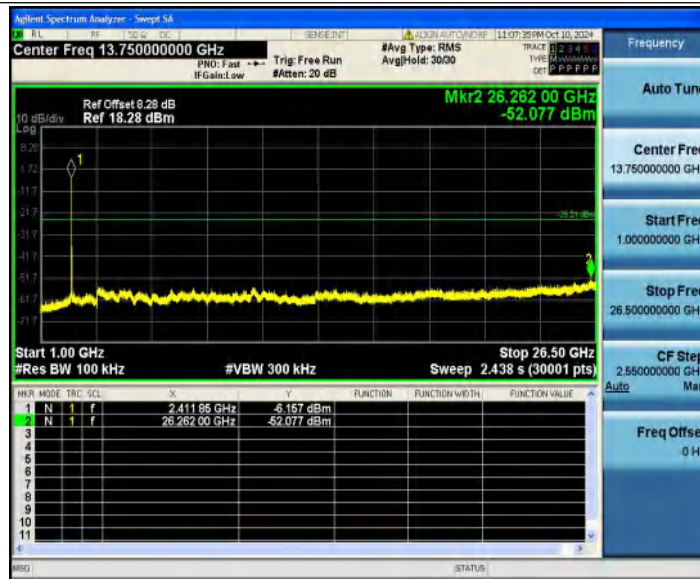
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



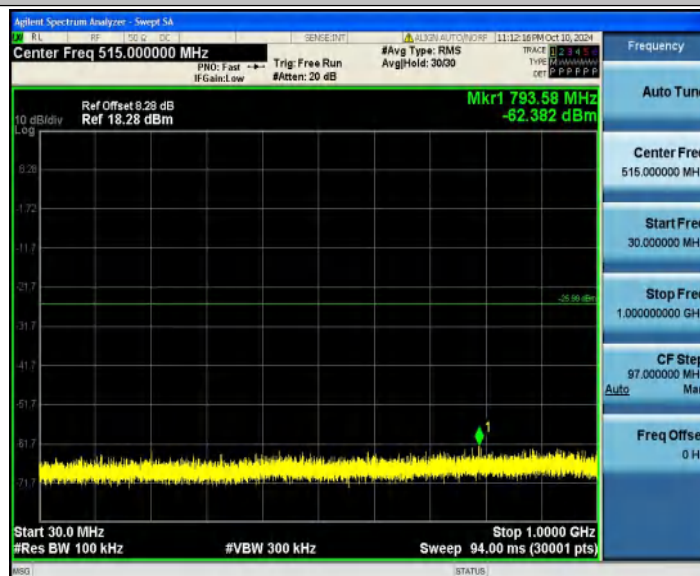
11B_Ant1_2412_1000~26500



11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



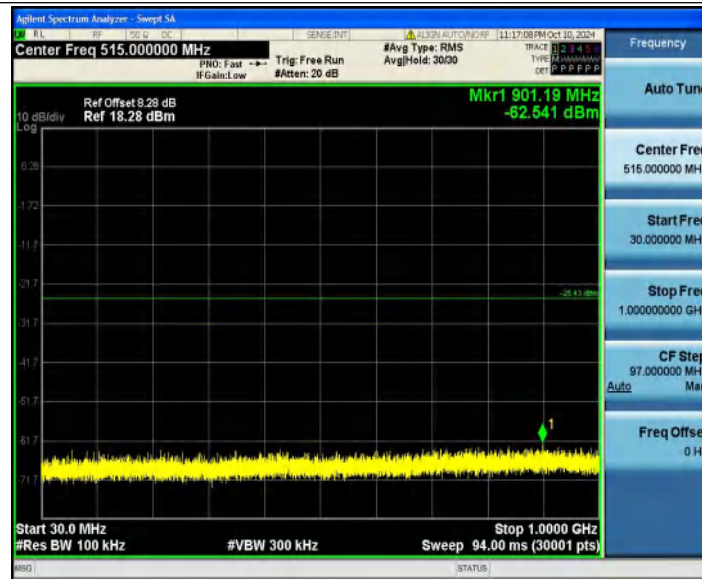
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



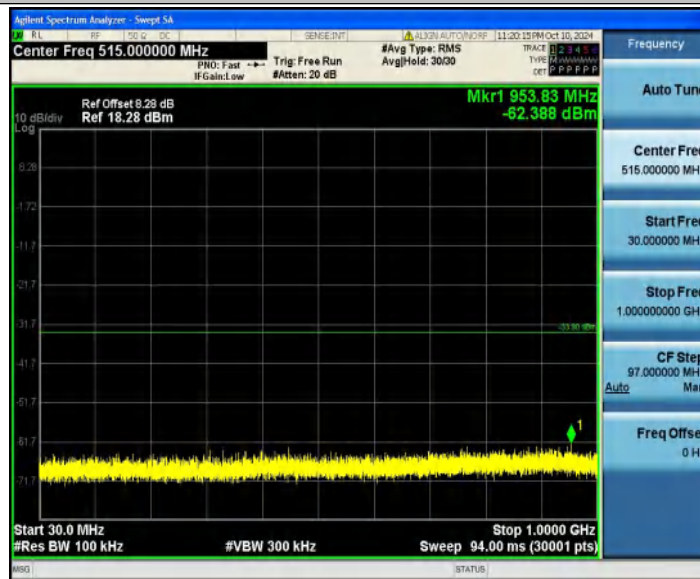
11B_Ant1_2462_1000~26500



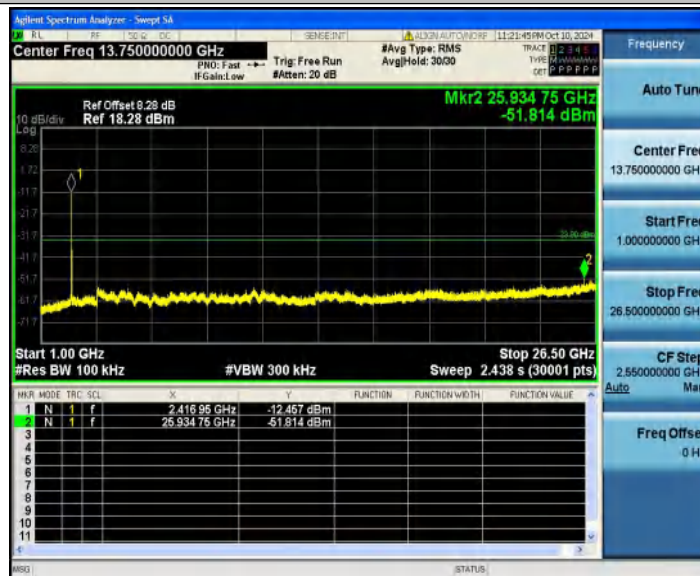
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500

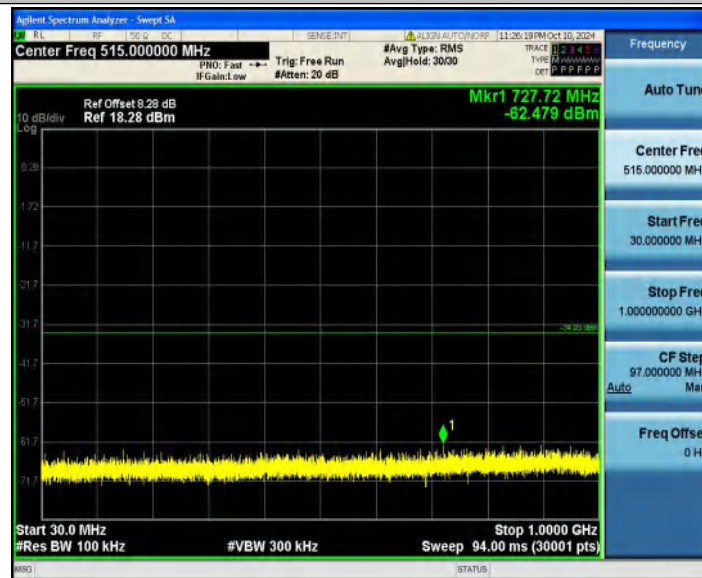


11G_Ant1_2437_0~Reference

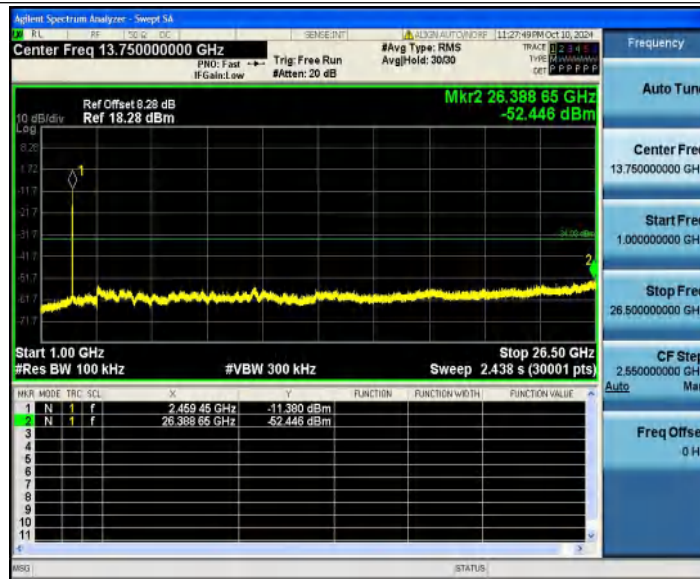
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



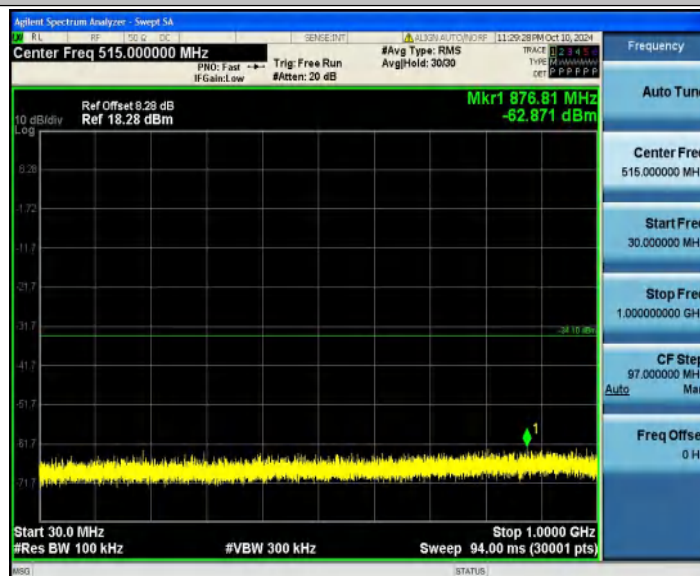
11G_Ant1_2462_1000~26500



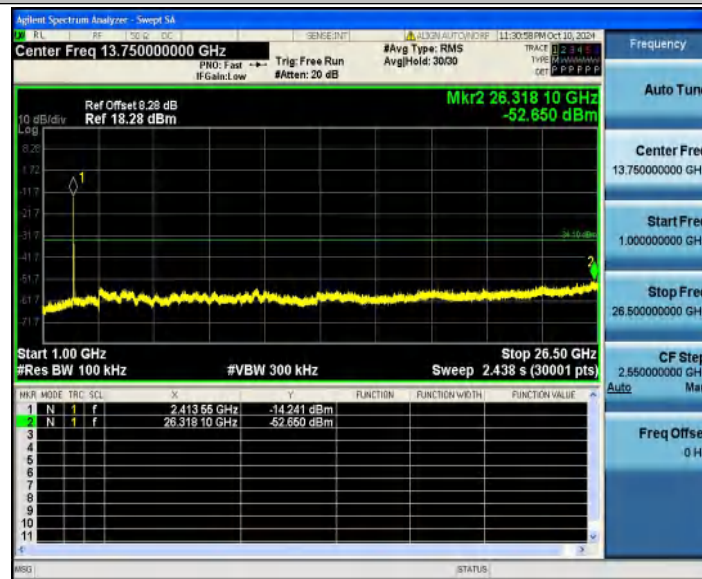
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



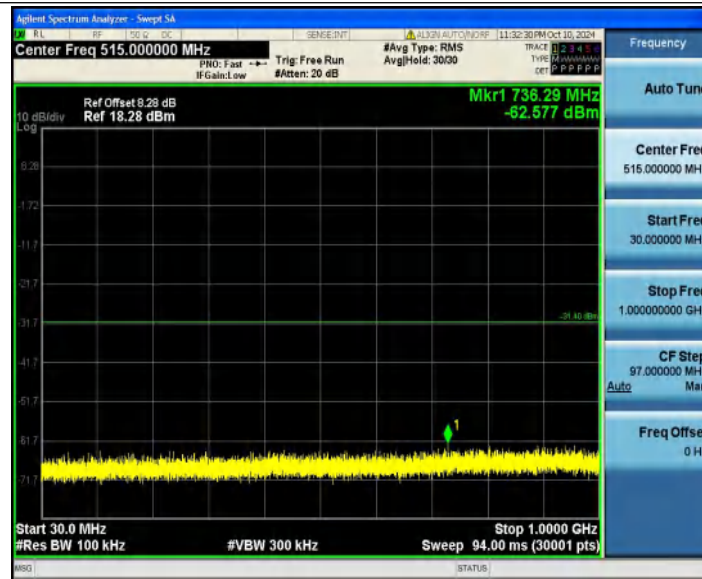
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



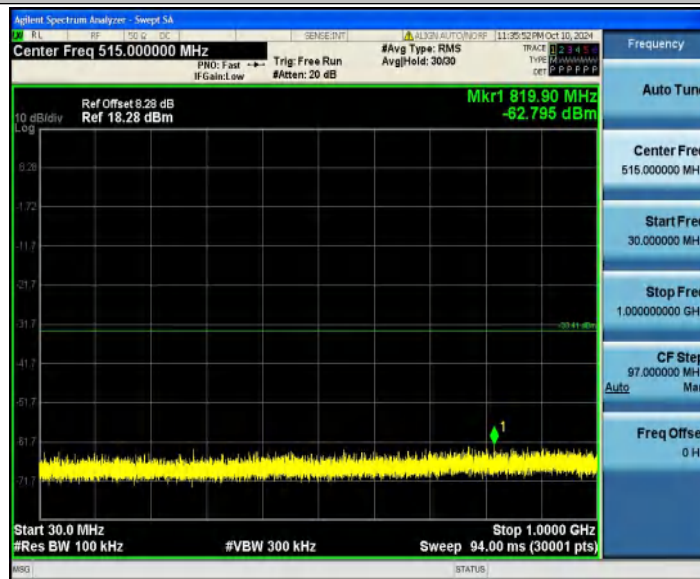
11N20SISO_Ant1_2437_1000~26500



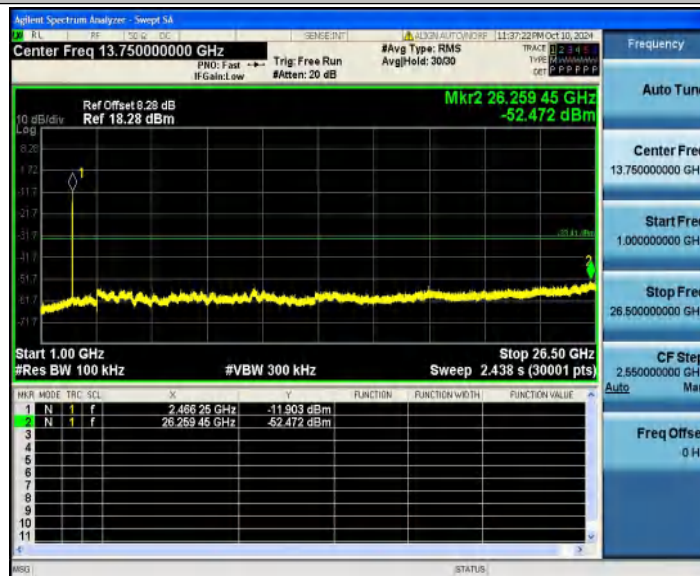
11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



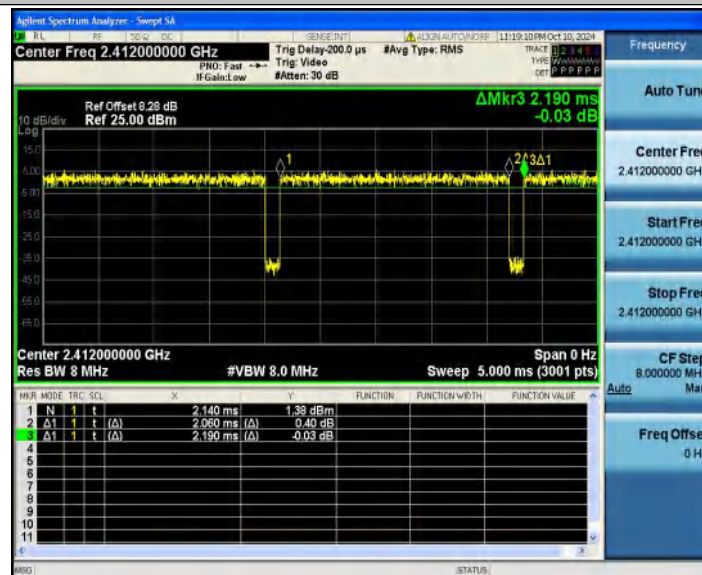
Appendix G: Duty Cycle

Test Result

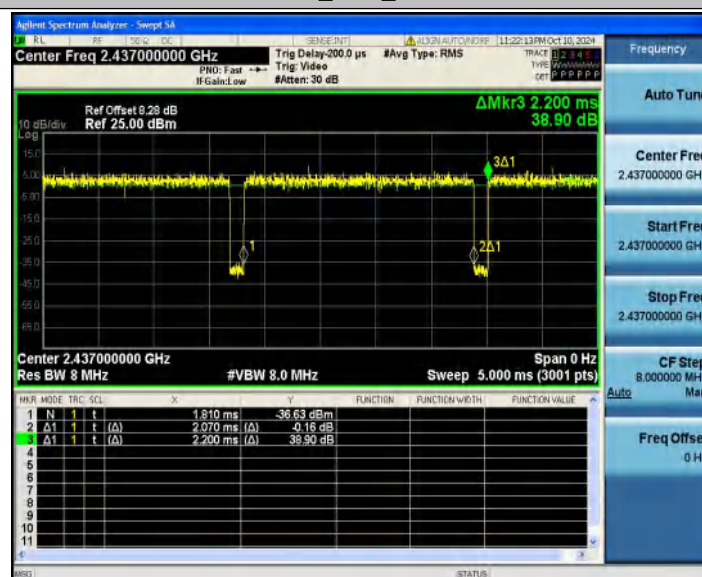
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	12.42	12.54	99.04	---	PASS
		2437	12.41	12.54	98.96	---	PASS
		2462	12.42	12.55	98.96	---	PASS
11G	Ant1	2412	2.06	2.19	94.06	---	PASS
		2437	2.07	2.20	94.09	---	PASS
		2462	2.06	2.19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



11G_Ant1_2412



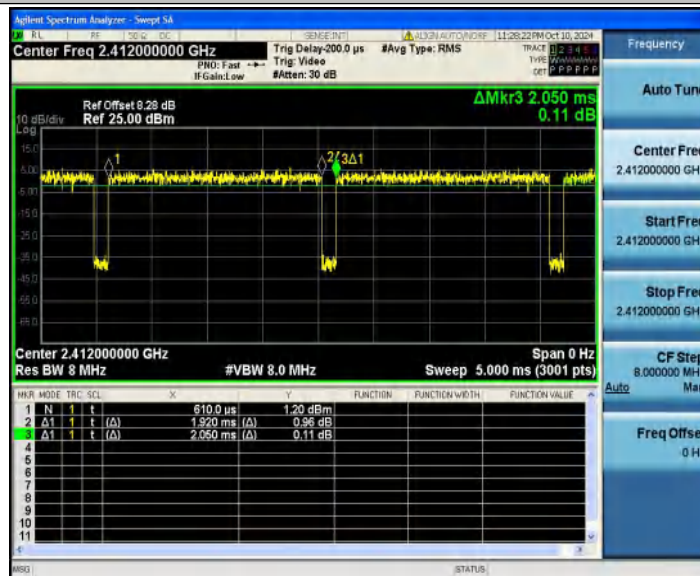
11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

