

Appendix: 2.4G WIFI

Contents

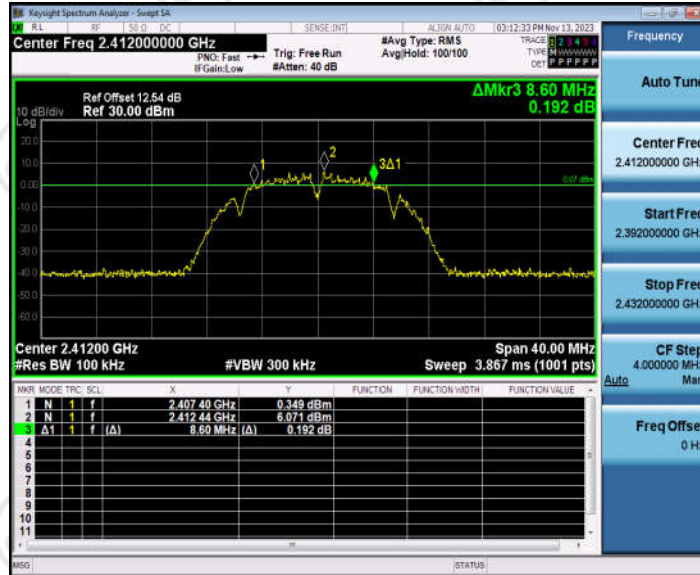
Appendix A: DTS Bandwidth	3
Test Result	3
Test Graphs	4
Appendix B: Occupied Channel Bandwidth	9
Test Result	9
Test Graphs	10
Appendix C: Maximum conducted output power	15
Test Result	15
Appendix D: Maximum power spectral density	16
Test Result	16
Test Graphs	17
Appendix E: Band edge measurements	22
Test Result	22
Test Graphs	23
Appendix F: Conducted Spurious Emission	26
Test Result	26
Test Graphs	28
Appendix G: Duty Cycle	42
Test Result	42
Test Graphs	43

Appendix A: DTS Bandwidth**Test Result**

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.600	2407.400	2416.000	0.5	PASS
		2437	9.560	2431.920	2441.480	0.5	PASS
		2462	10.040	2456.880	2466.920	0.5	PASS
11G	Ant1	2412	15.040	2404.040	2419.080	0.5	PASS
		2437	15.120	2429.400	2444.520	0.5	PASS
		2462	15.040	2454.160	2469.200	0.5	PASS
11N20SI SO	Ant1	2412	15.040	2404.400	2419.440	0.5	PASS
		2437	15.040	2429.440	2444.480	0.5	PASS
		2462	15.000	2454.480	2469.480	0.5	PASS

Test Graphs

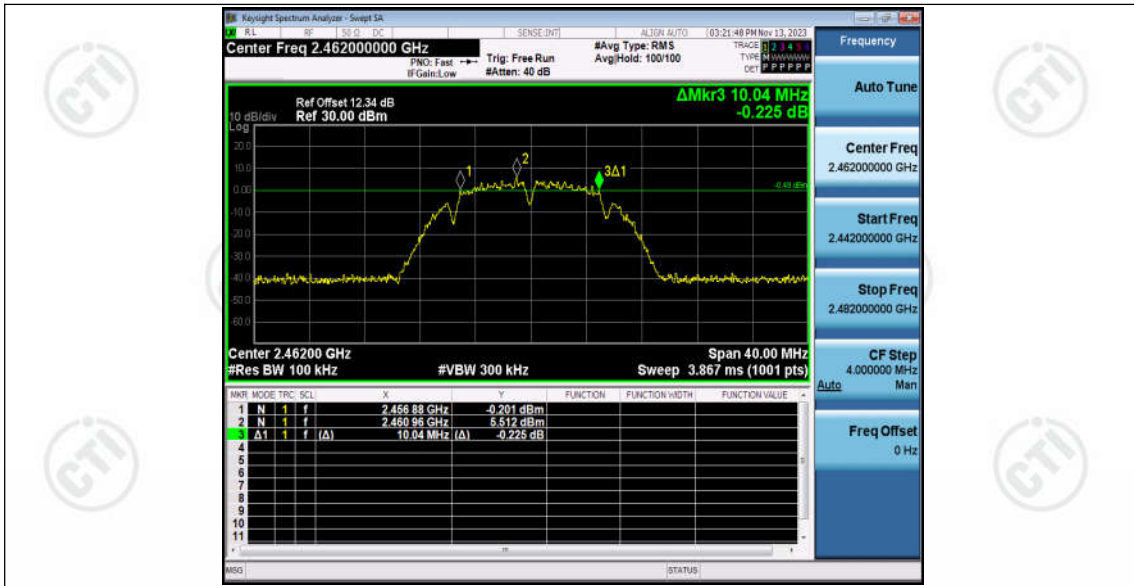
11B_Ant1_2412



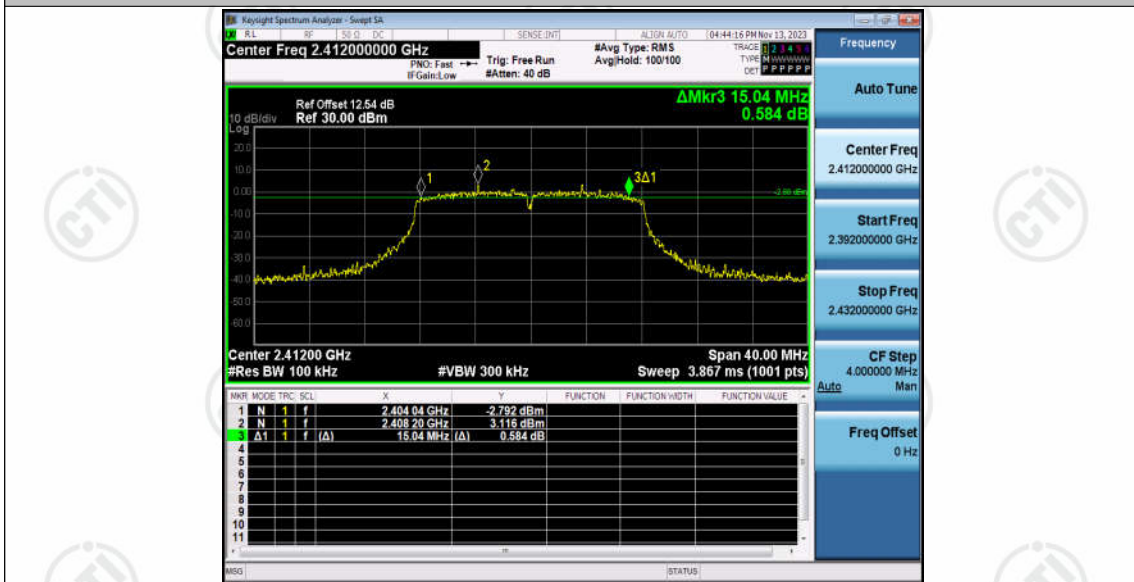
11B_Ant1_2437



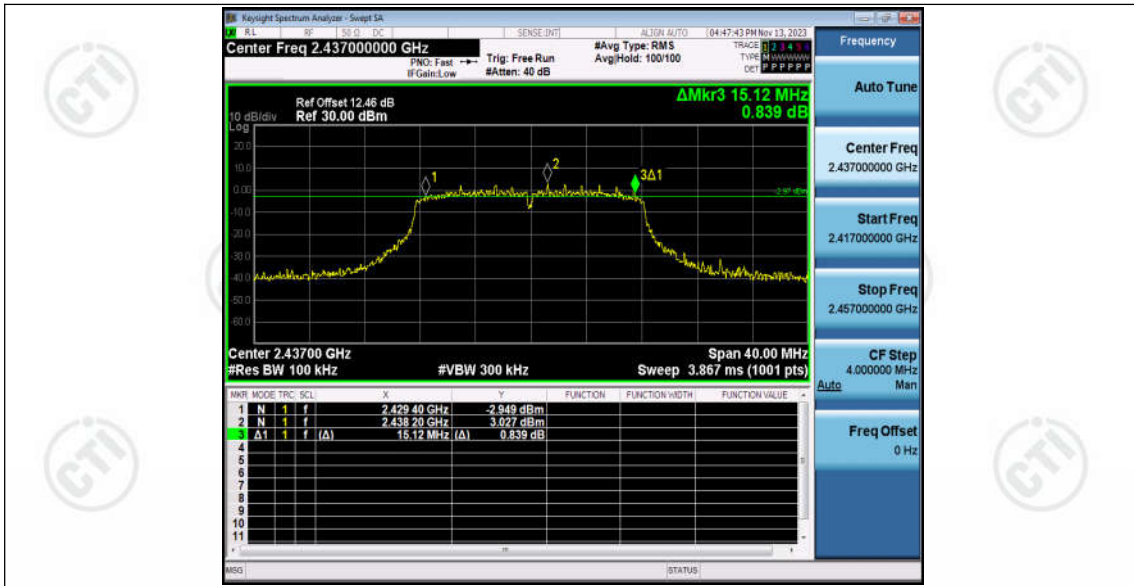
11B_Ant1_2462



11G_Ant1_2412



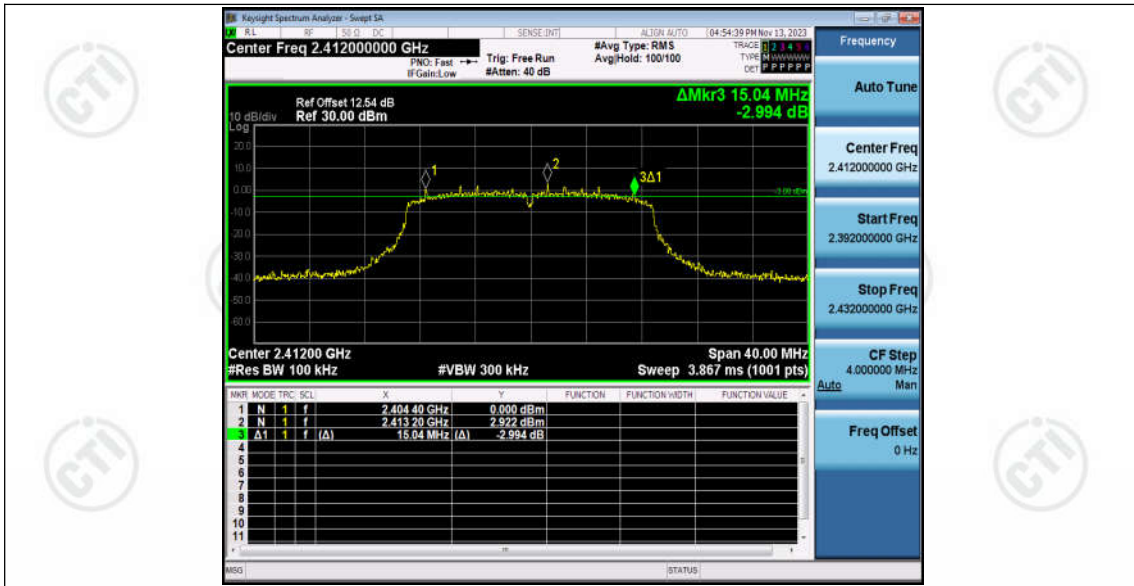
11G_Ant1_2437



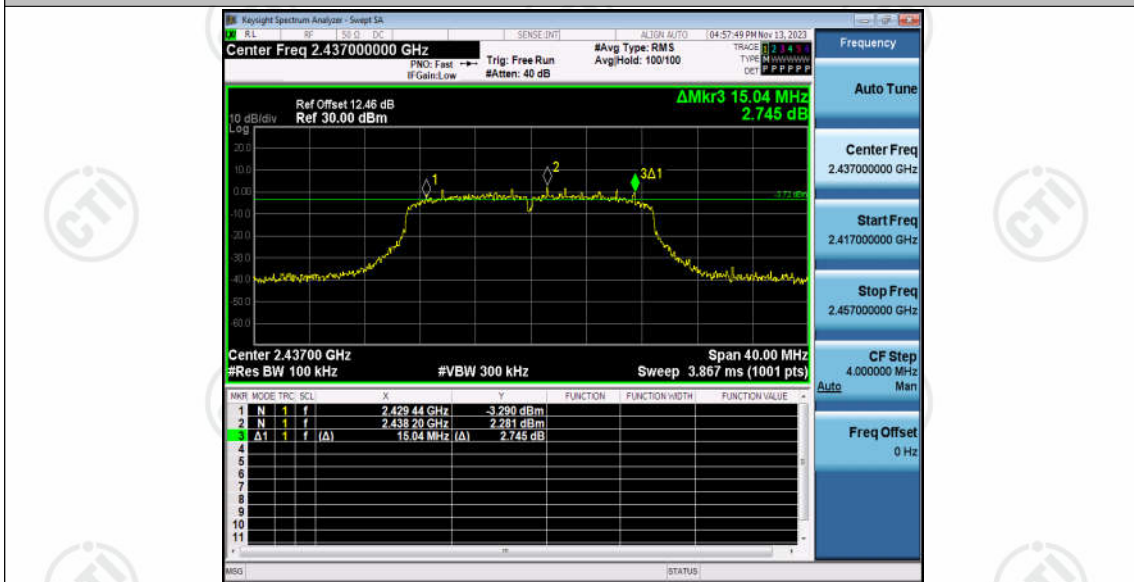
11G_Ant1_2462



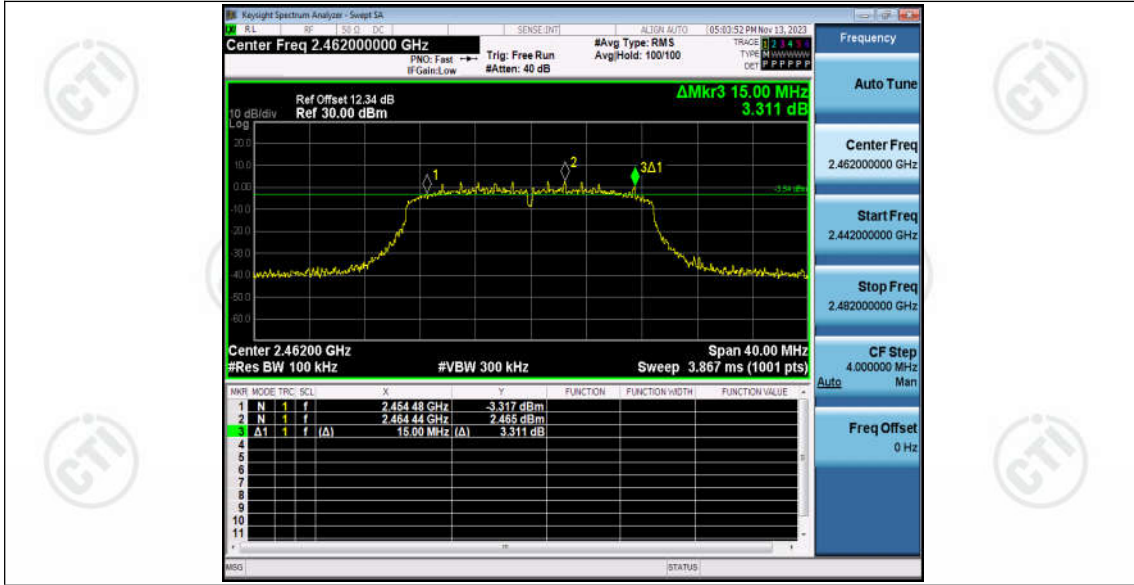
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

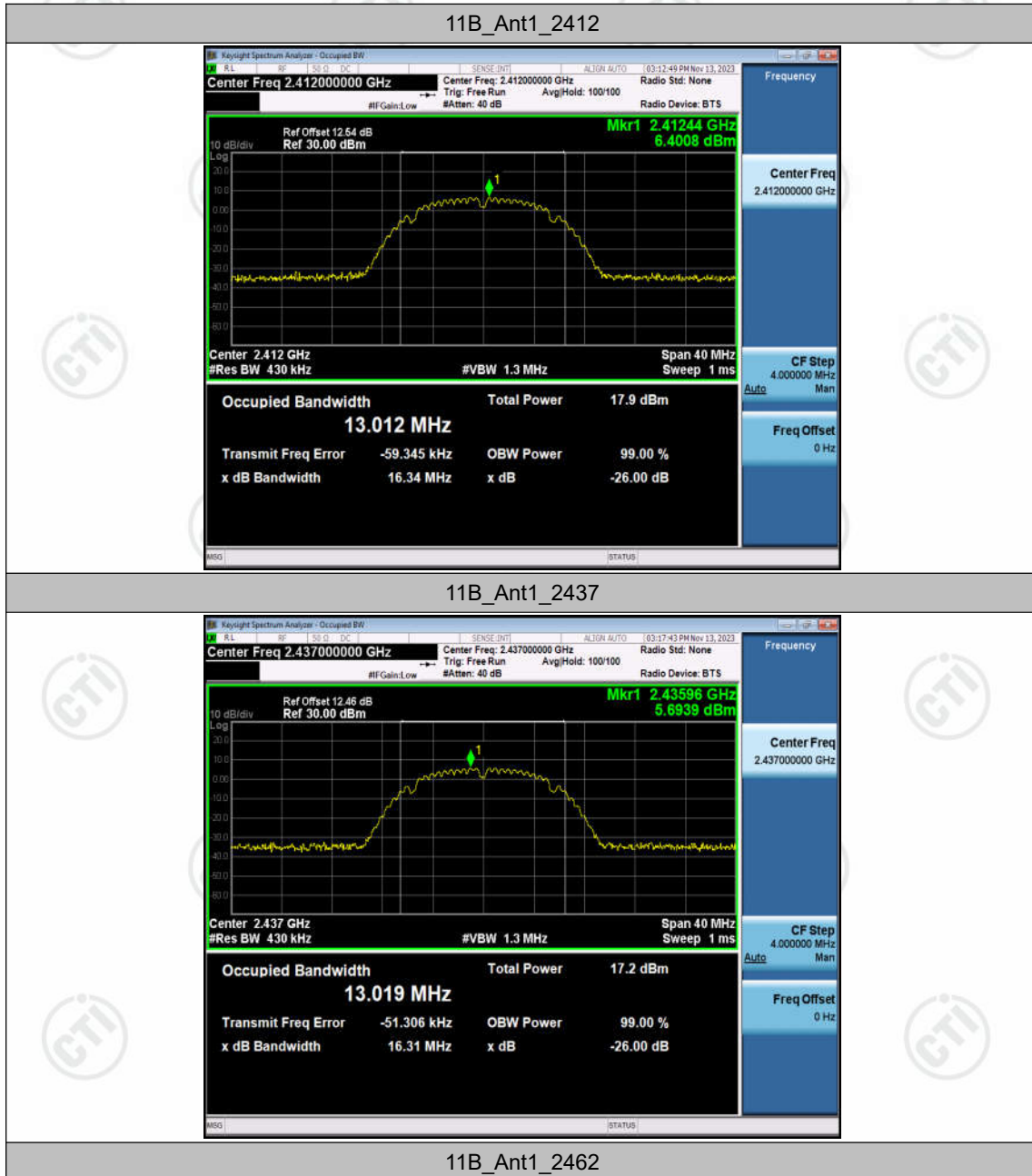


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.012	2405.4347	2418.4467	---	---
		2437	13.019	2430.4392	2443.4582	---	---
		2462	12.995	2455.4488	2468.4438	---	---
11G	Ant1	2412	16.389	2403.7000	2420.0890	---	---
		2437	16.451	2428.7029	2445.1539	---	---
		2462	16.429	2453.7537	2470.1827	---	---
11N20SI SO	Ant1	2412	17.450	2403.2200	2420.6700	---	---
		2437	17.438	2428.2357	2445.6737	---	---
		2462	17.593	2453.1481	2470.7411	---	---

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**

TestMode	Antenna	Frequency [MHz]	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	---	14.66	≤30.00	PASS
		2437	---	14.43	≤30.00	PASS
		2462	---	14.48	≤30.00	PASS
11G	Ant1	2412	---	14.52	≤30.00	PASS
		2437	---	14.23	≤30.00	PASS
		2462	---	14.25	≤30.00	PASS
11N20SIS O	Ant1	2412	---	13.75	≤30.00	PASS
		2437	---	13.53	≤30.00	PASS
		2462	---	13.56	≤30.00	PASS

Appendix D: Maximum power spectral density**Test Result**

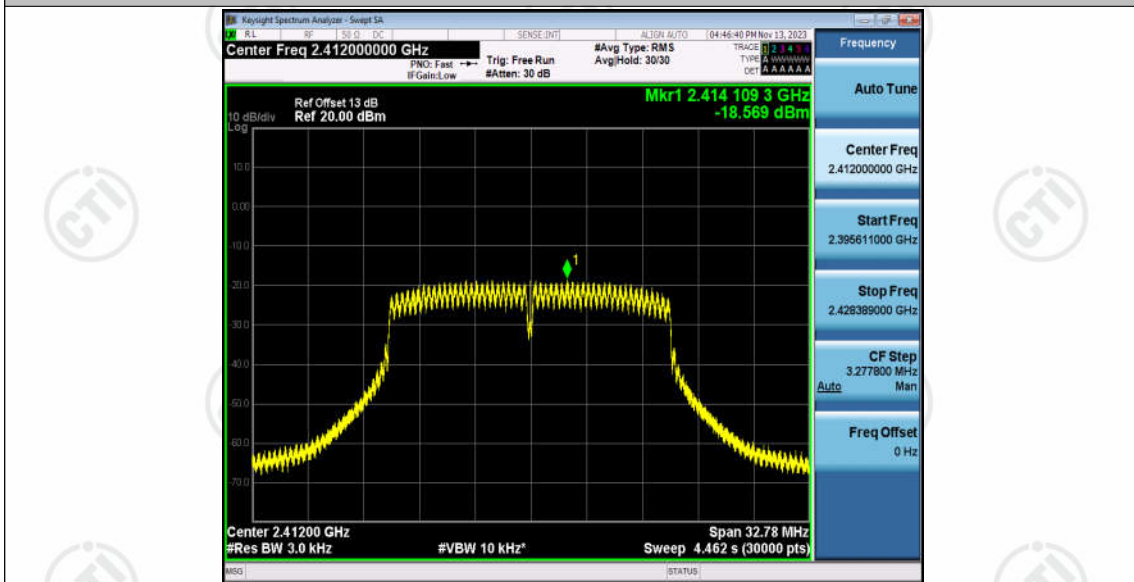
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-15.35	≤8.00	PASS
		2437	-15.77	≤8.00	PASS
		2462	-14.32	≤8.00	PASS
11G	Ant1	2412	-18.57	≤8.00	PASS
		2437	-18.95	≤8.00	PASS
		2462	-18.27	≤8.00	PASS
11N20SISO	Ant1	2412	-19.29	≤8.00	PASS
		2437	-19.91	≤8.00	PASS
		2462	-19.28	≤8.00	PASS

Test Graphs

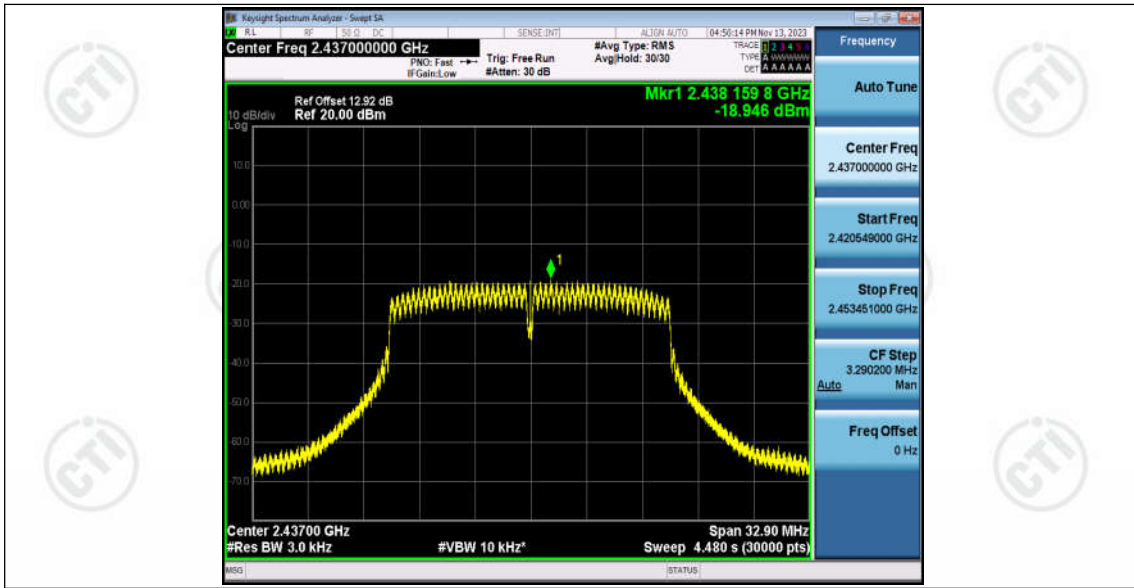




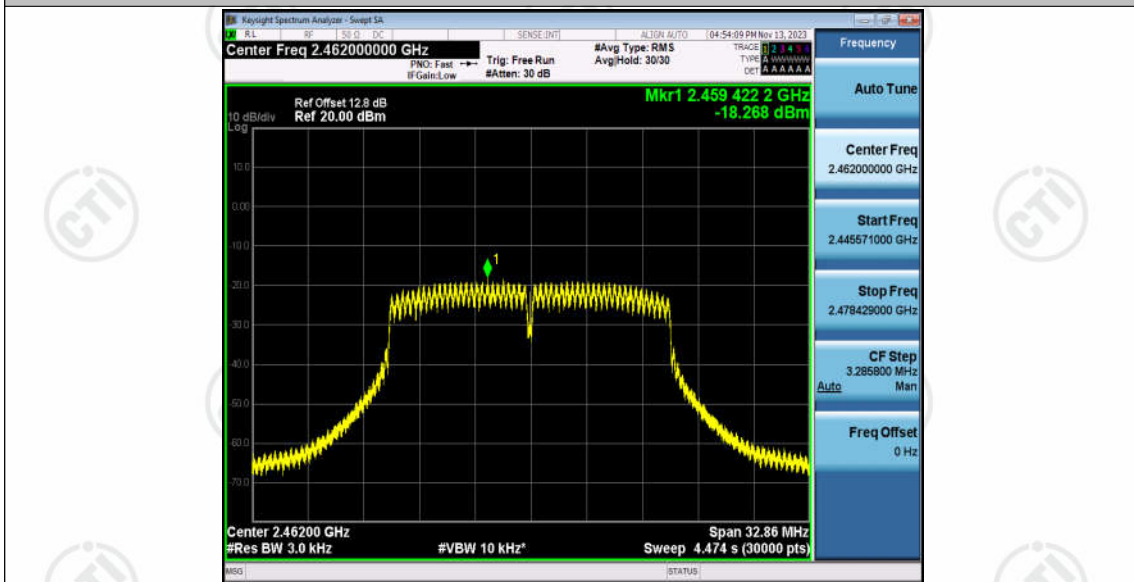
11G_Ant1_2412



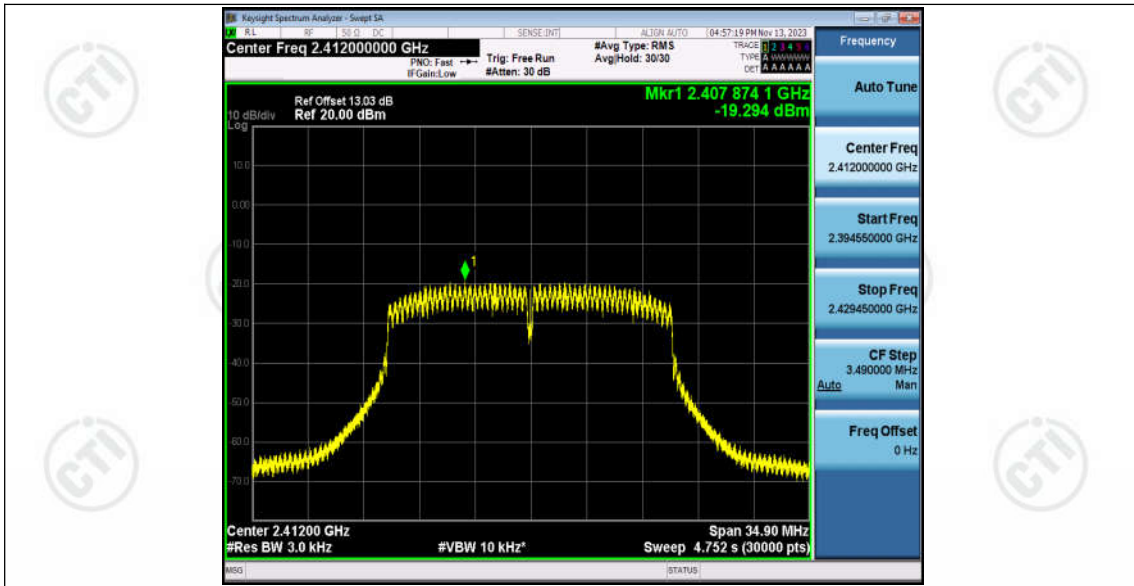
11G_Ant1_2437



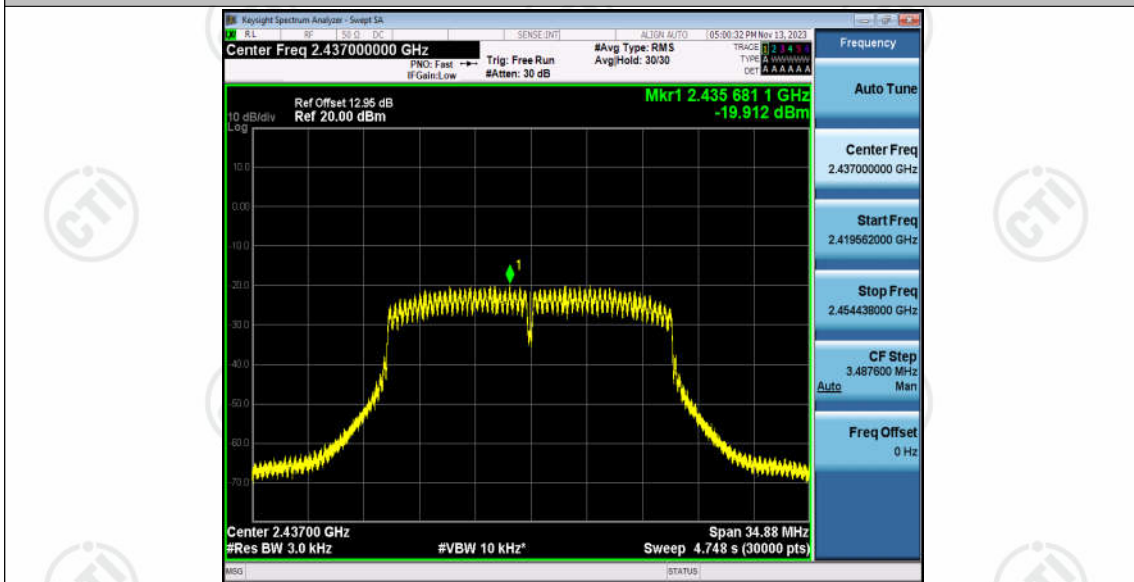
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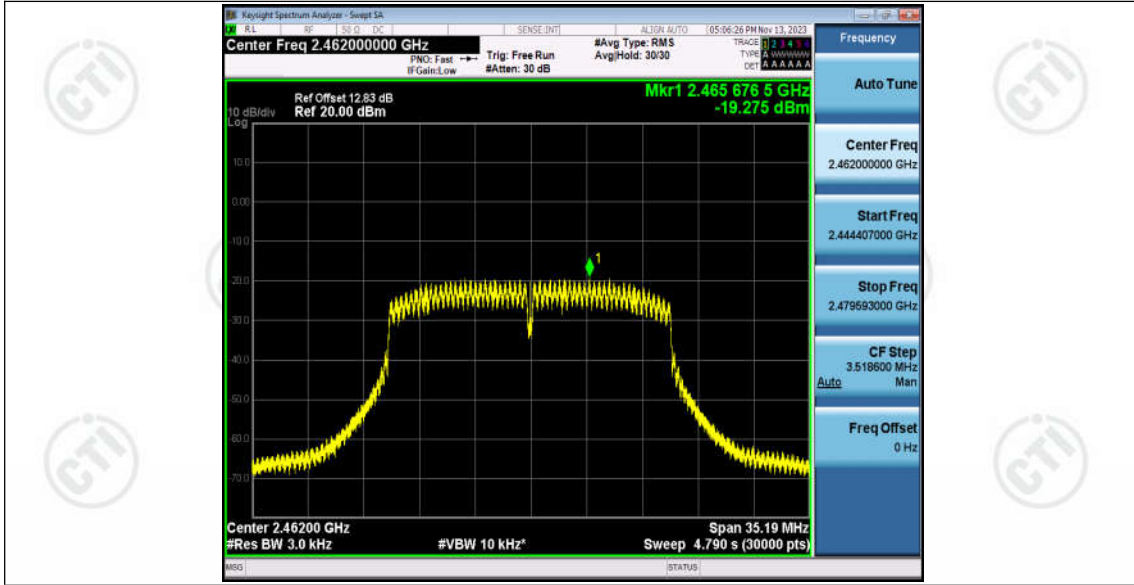
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



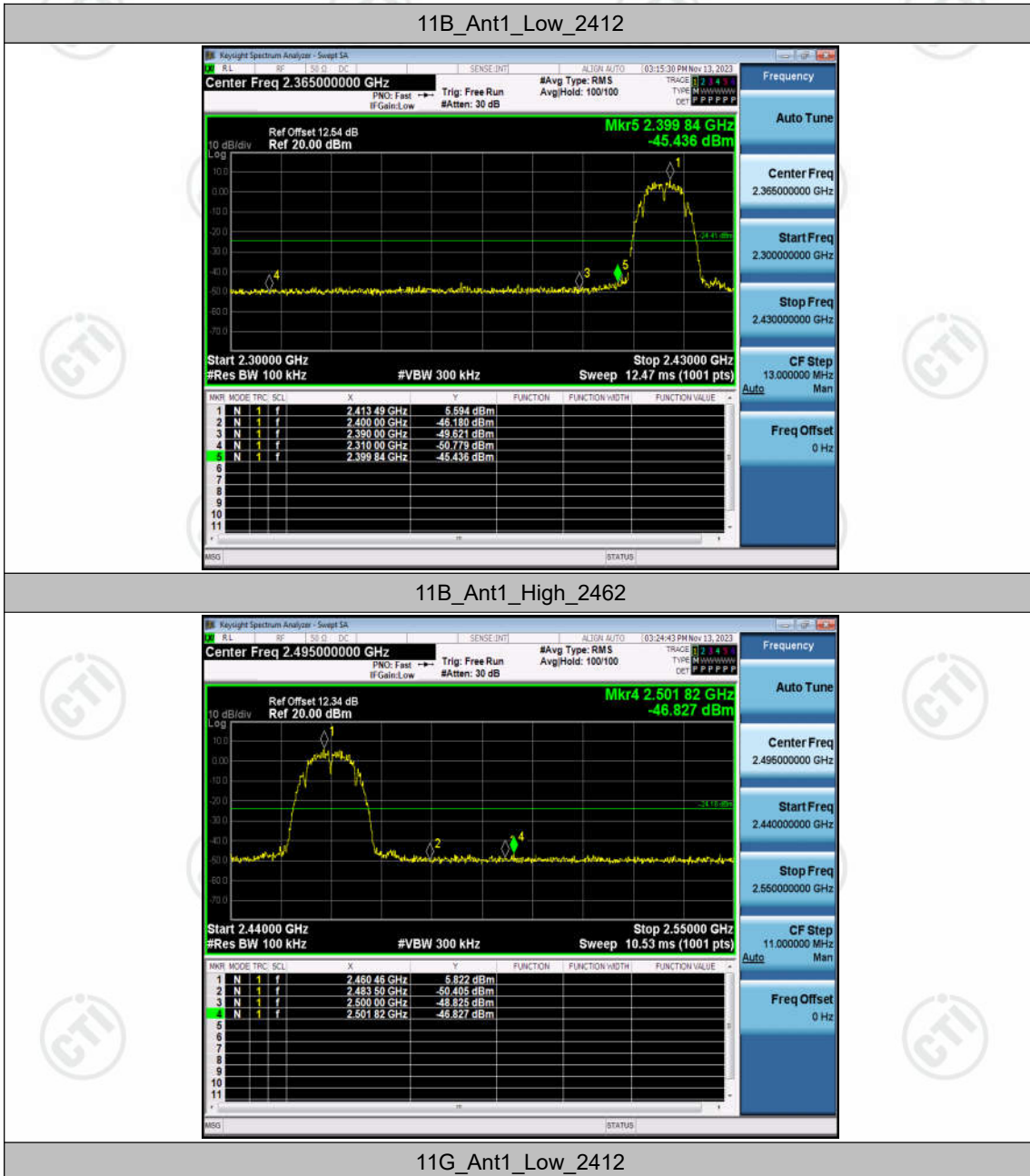
11N20SISO_Ant1_2462

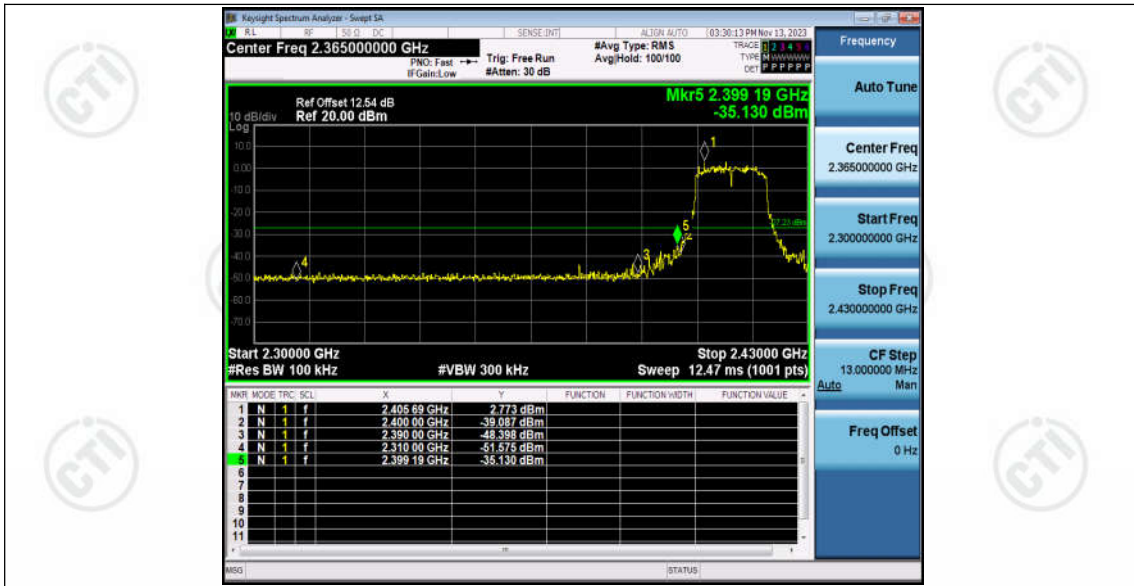


Appendix E: Band edge measurements**Test Result**

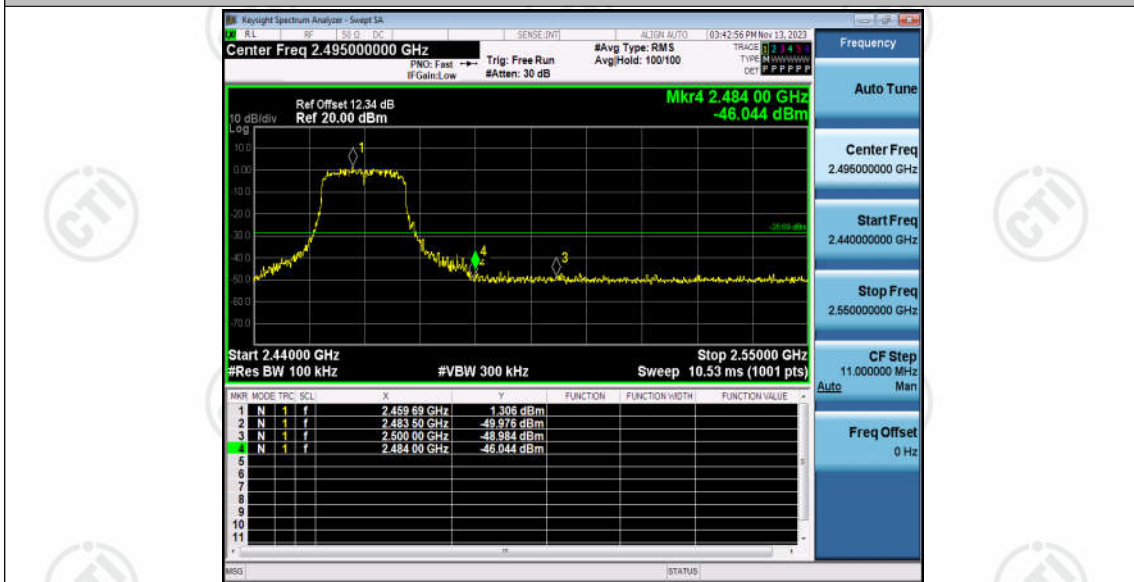
TestMode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	5.59	-45.44	≤-24.41	PASS
		High	2462	5.82	-46.83	≤-24.18	PASS
11G	Ant1	Low	2412	2.77	-35.13	≤-27.23	PASS
		High	2462	1.31	-46.04	≤-28.69	PASS
11N20SIS O	Ant1	Low	2412	0.92	-34.59	≤-29.08	PASS
		High	2462	2.70	-45.72	≤-27.3	PASS

Test Graphs

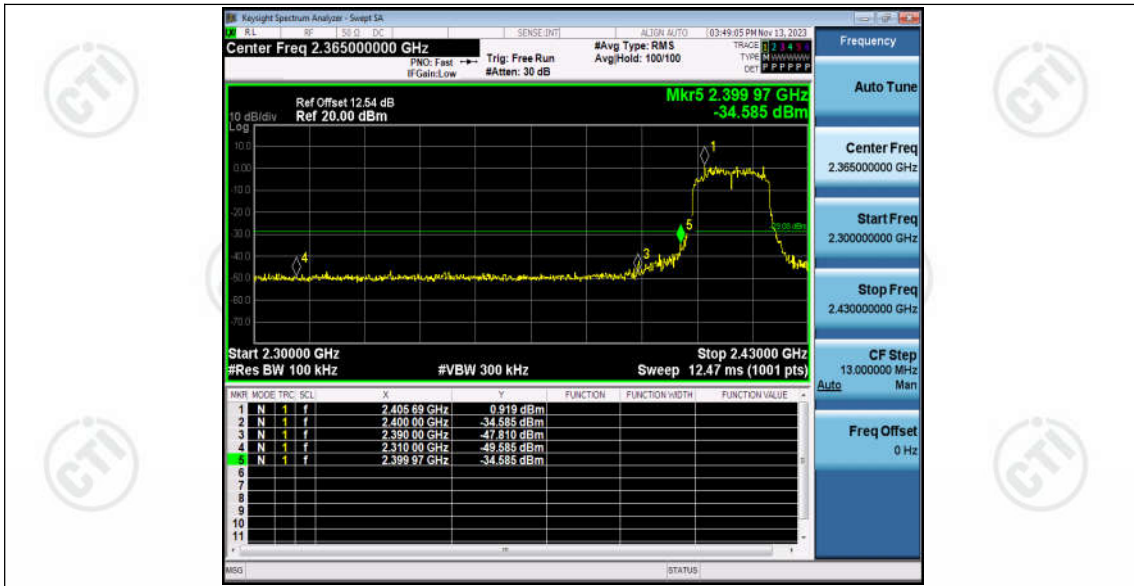




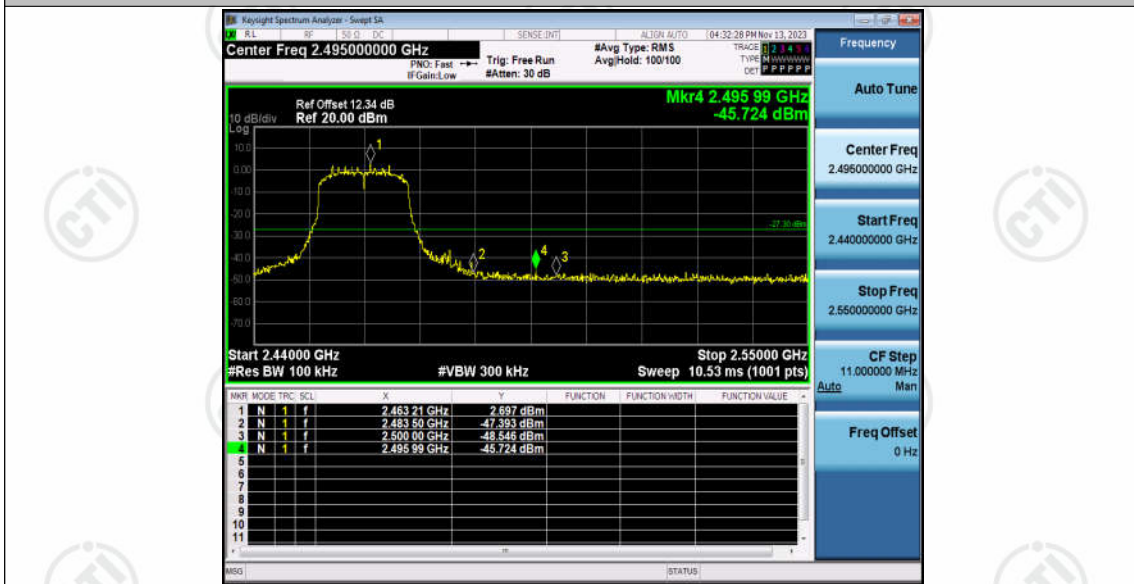
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



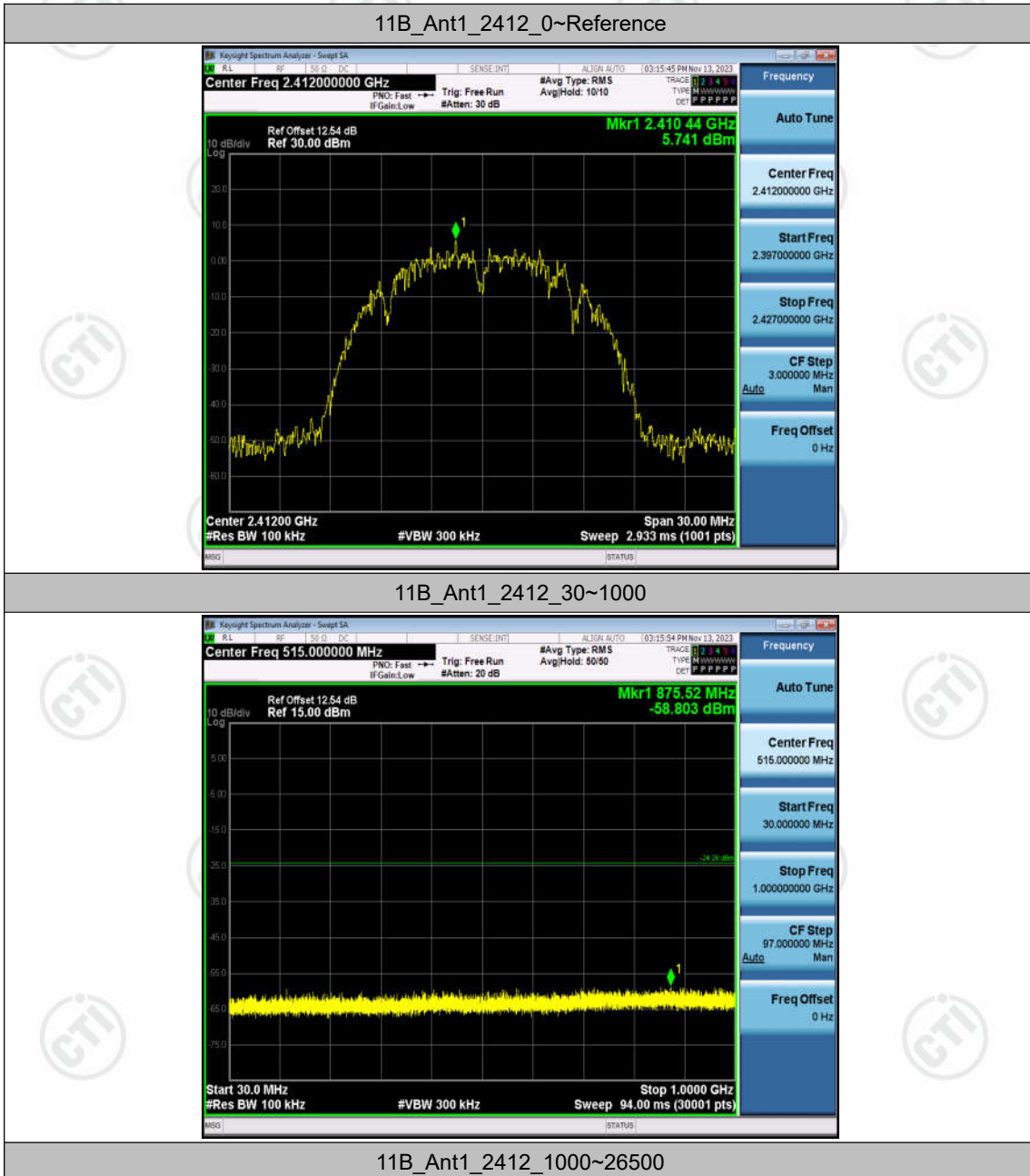
Appendix F: Conducted Spurious Emission

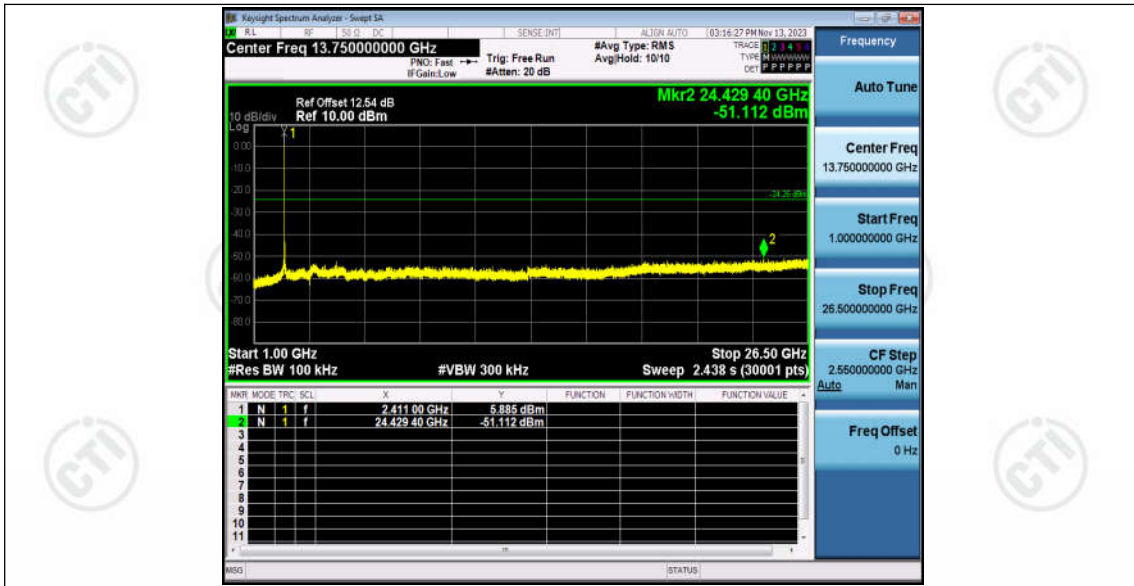
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	5.74	5.74	---	PASS
			30~1000	5.74	-58.8	≤-24.26	PASS
			1000~2650 0	5.74	-51.11	≤-24.26	PASS
		2437	Reference	3.19	3.19	---	PASS
			30~1000	3.19	-57.35	≤-26.81	PASS
			1000~2650 0	3.19	-50.45	≤-26.81	PASS
		2462	Reference	5.35	5.35	---	PASS
			30~1000	5.35	-58.59	≤-24.65	PASS
			1000~2650 0	5.35	-50.67	≤-24.65	PASS
11G	Ant1	2412	Reference	4.43	4.43	---	PASS
			30~1000	4.43	-58.32	≤-25.57	PASS
			1000~2650 0	4.43	-50.92	≤-25.57	PASS
		2437	Reference	3.33	3.33	---	PASS
			30~1000	3.33	-58.49	≤-26.67	PASS
			1000~2650 0	3.33	-51.09	≤-26.67	PASS
		2462	Reference	3.52	3.52	---	PASS
			30~1000	3.52	-58.32	≤-26.48	PASS
			1000~2650 0	3.52	-50.88	≤-26.48	PASS
11N20SI SO	Ant1	2412	Reference	-0.39	-0.39	---	PASS
			30~1000	-0.39	-58.53	≤-30.39	PASS
			1000~2650 0	-0.39	-50.22	≤-30.39	PASS
		2437	Reference	3.34	3.34	---	PASS
			30~1000	3.34	-57.83	≤-26.66	PASS
			1000~2650 0	3.34	-51.2	≤-26.66	PASS
		2462	Reference	3.01	3.01	---	PASS
			30~1000	3.01	-58	≤-26.99	PASS
			1000~2650	3.01	-51.02	≤-26.99	PASS

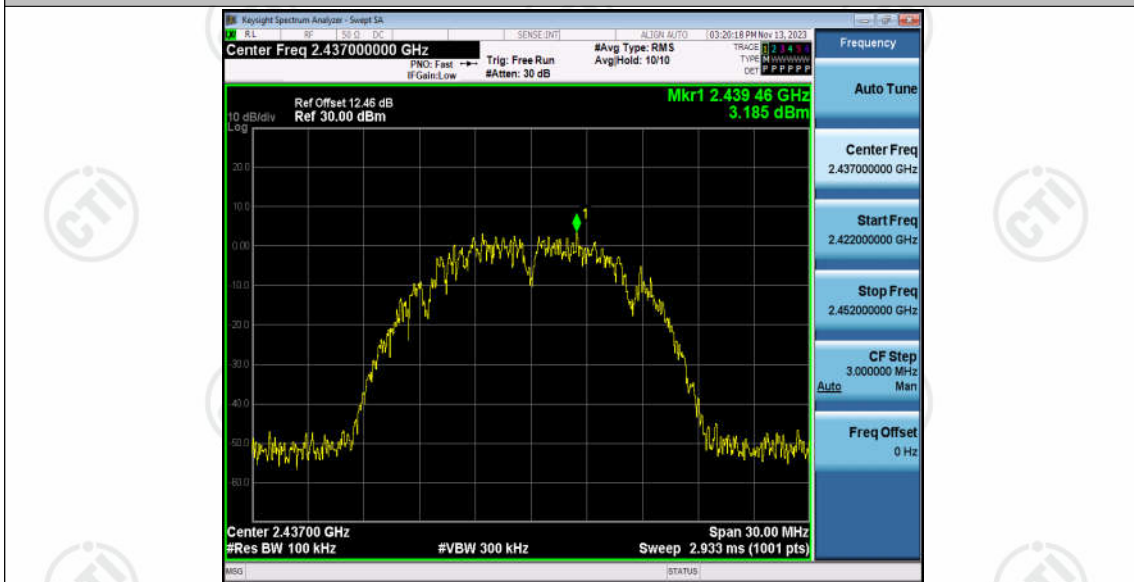
			0				
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Test Graphs

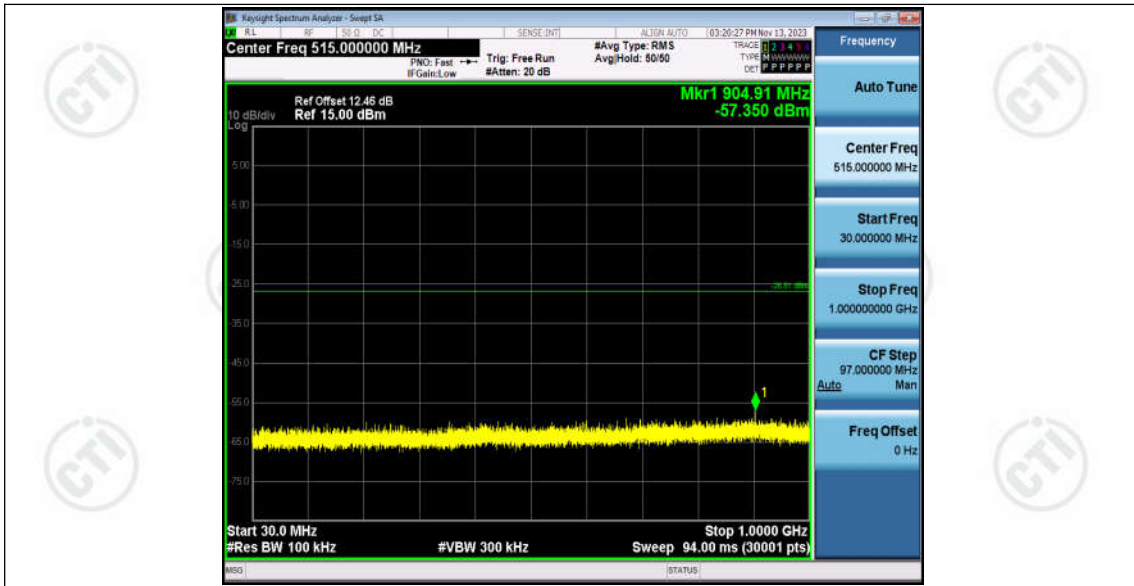




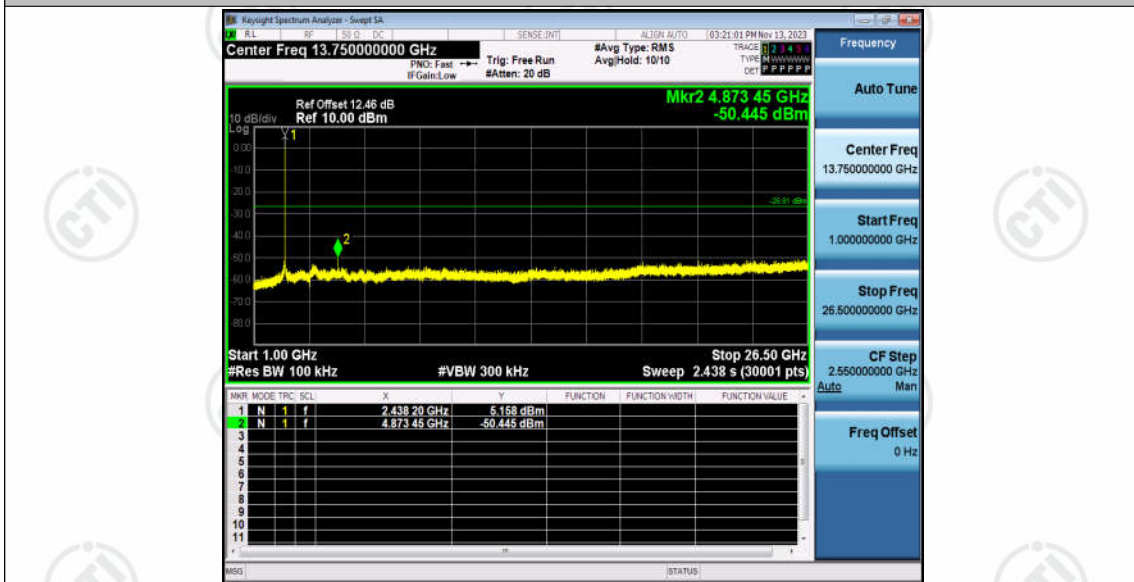
11B_Ant1_2437_0~Reference



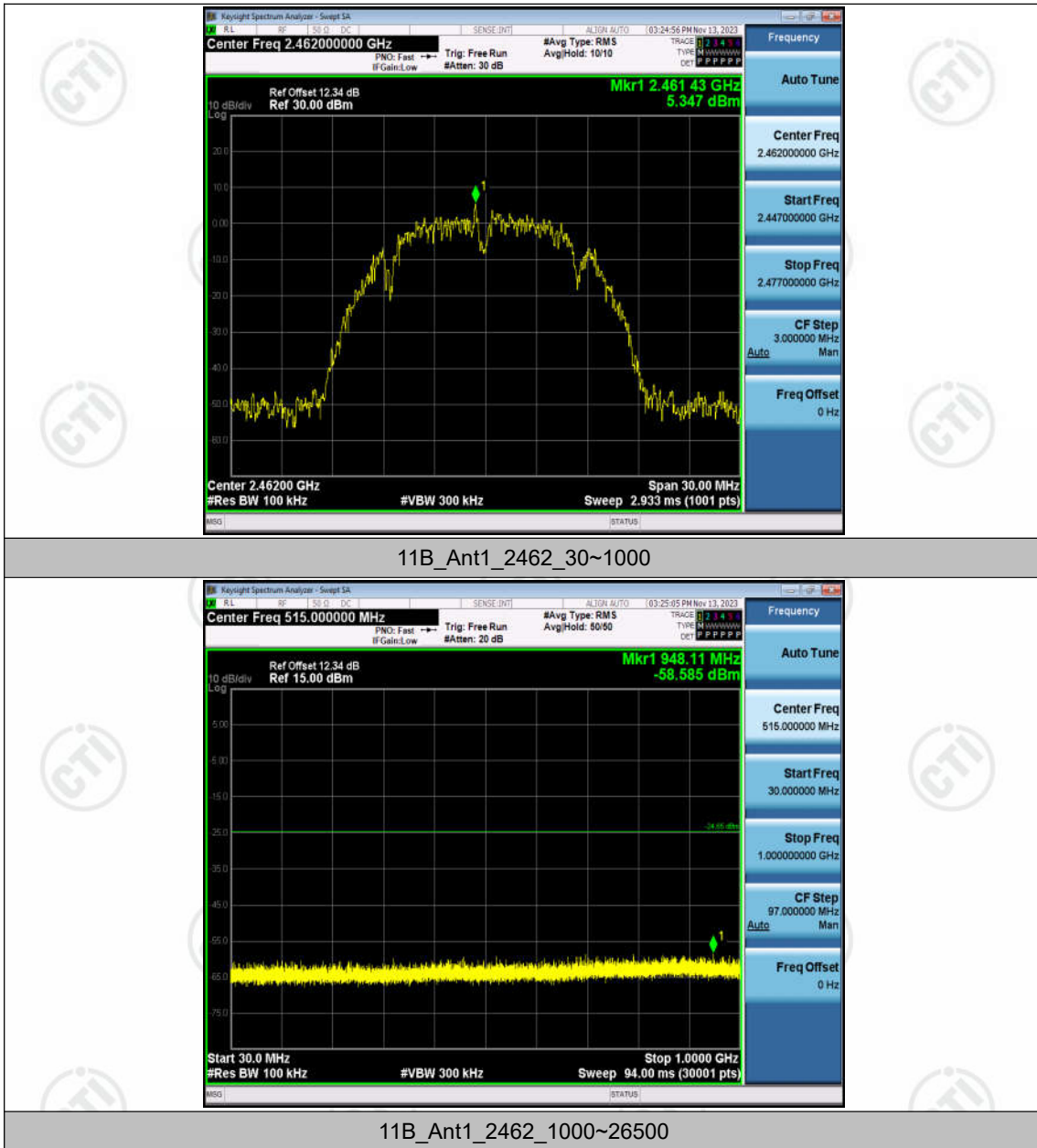
11B_Ant1_2437_30~1000

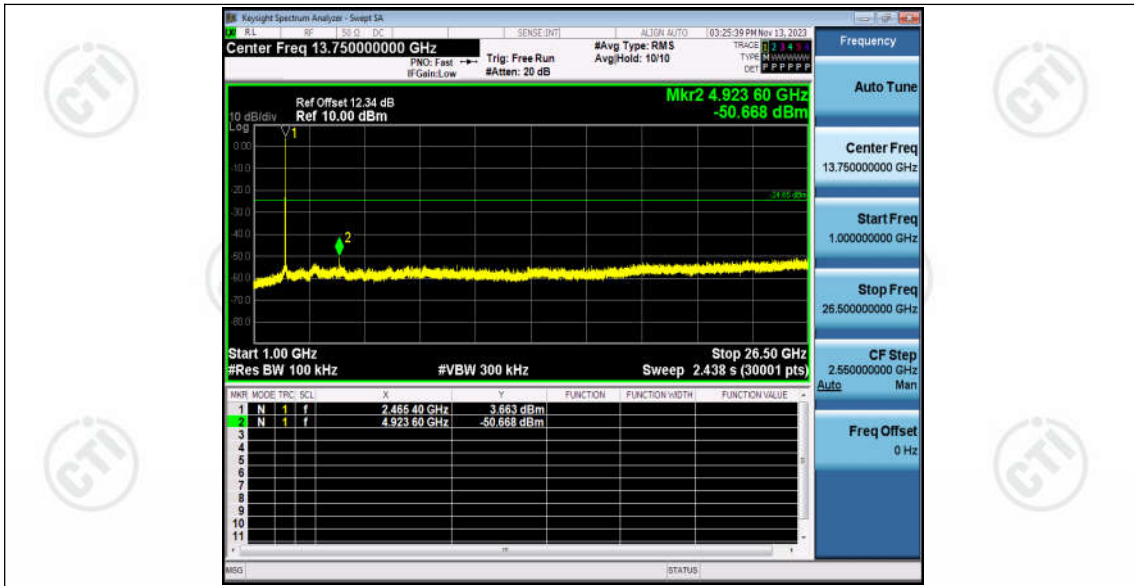


11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference

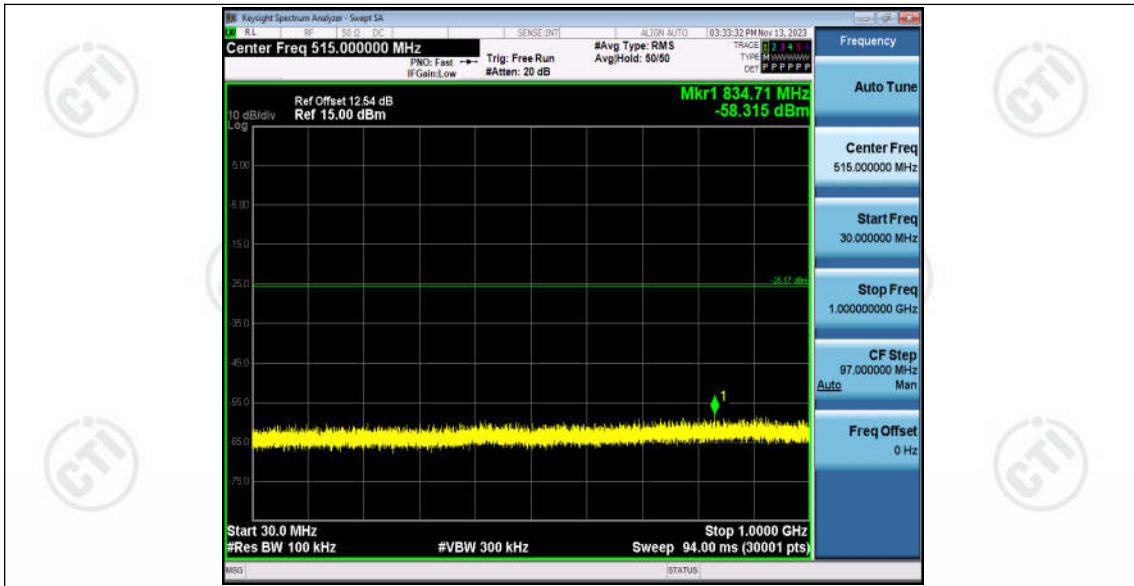




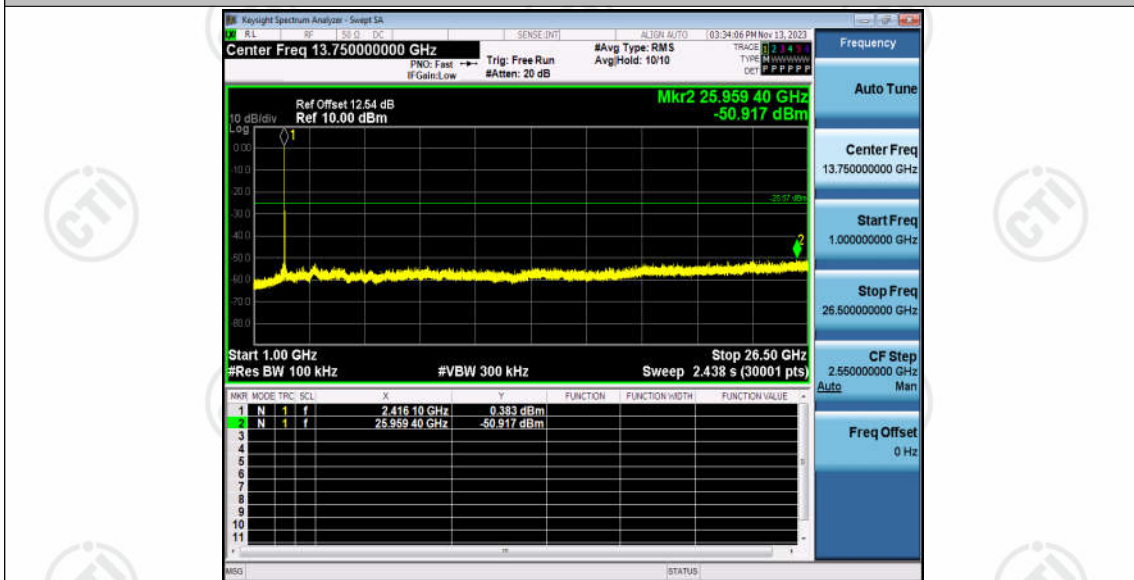
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



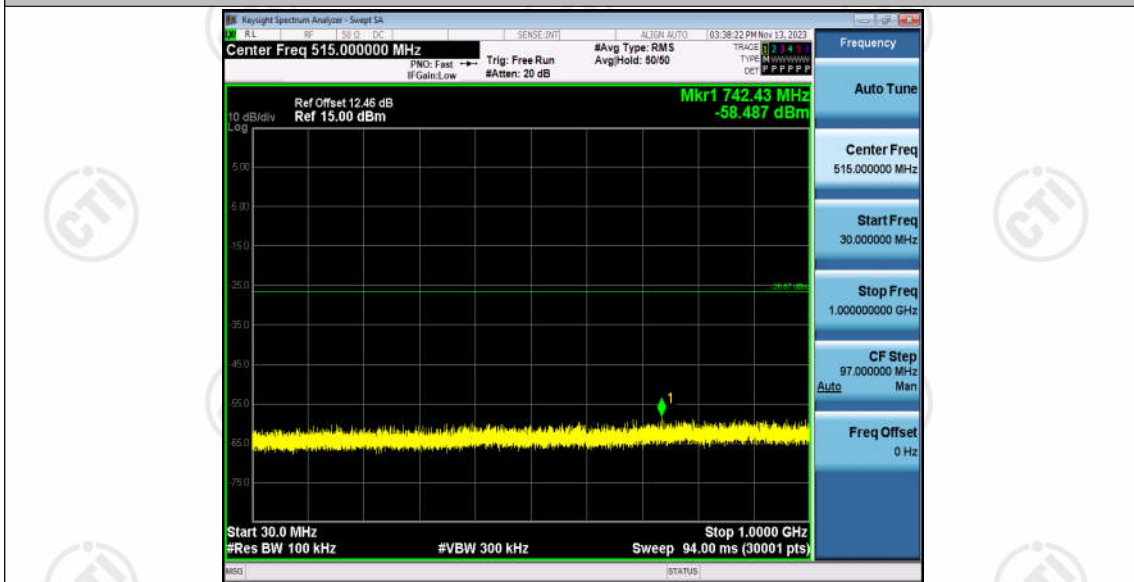
11G_Ant1_2412_1000~26500



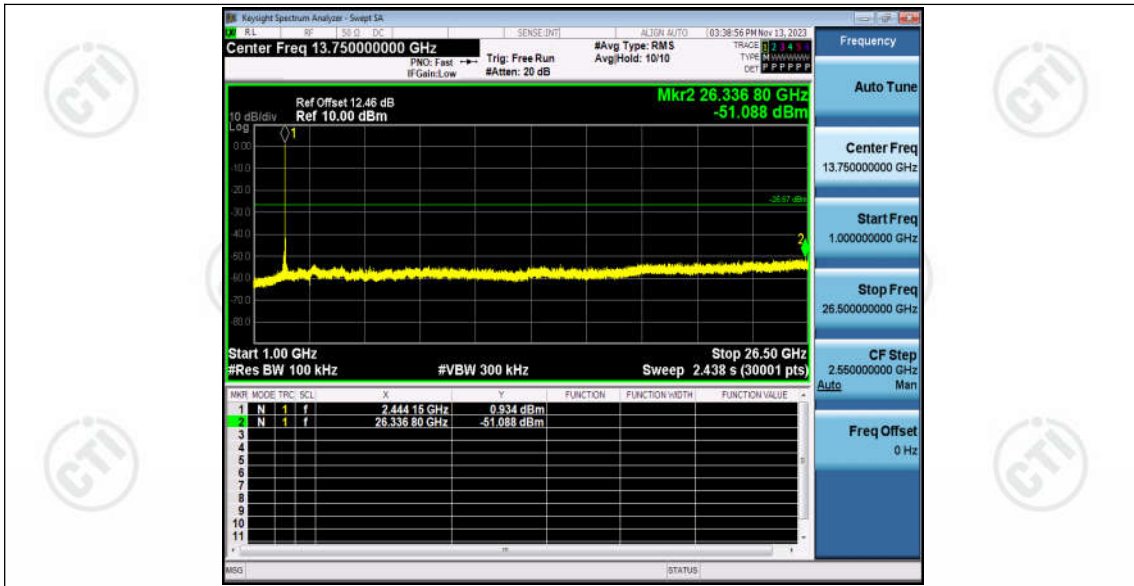
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



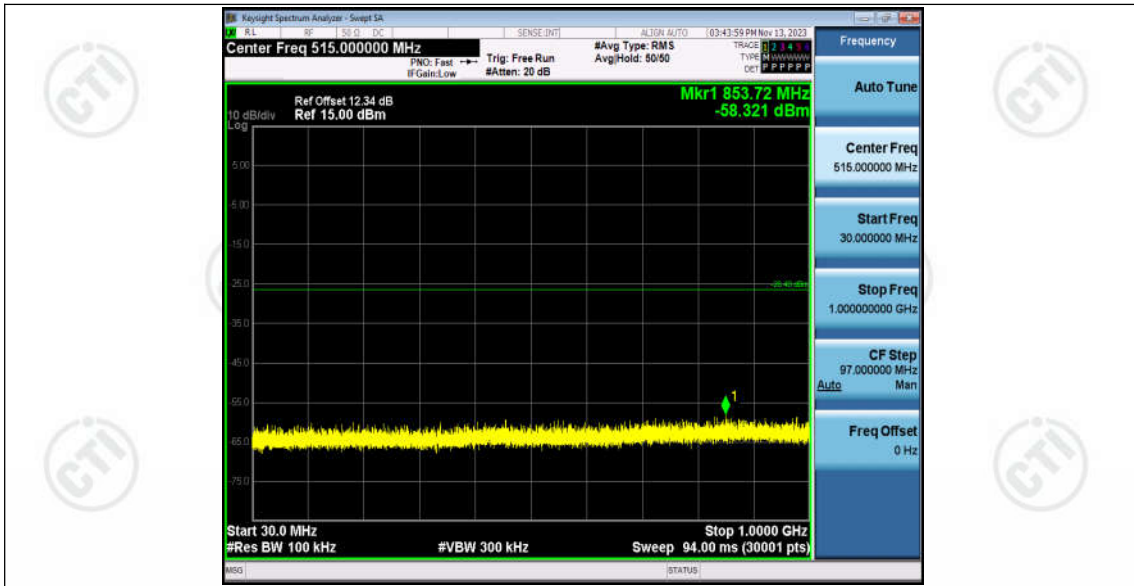
11G_Ant1_2437_1000~26500



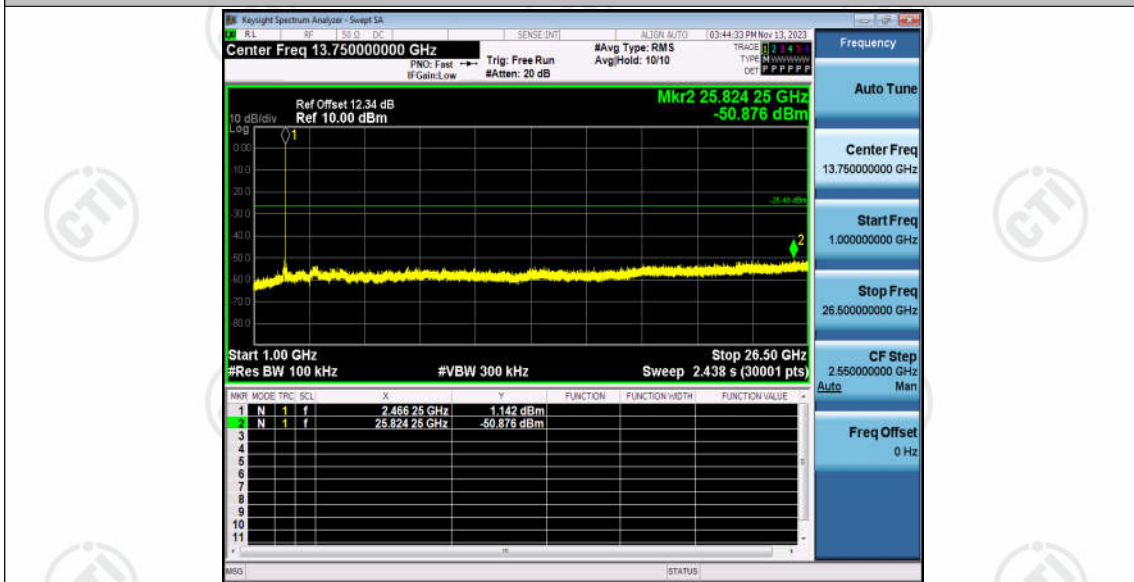
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



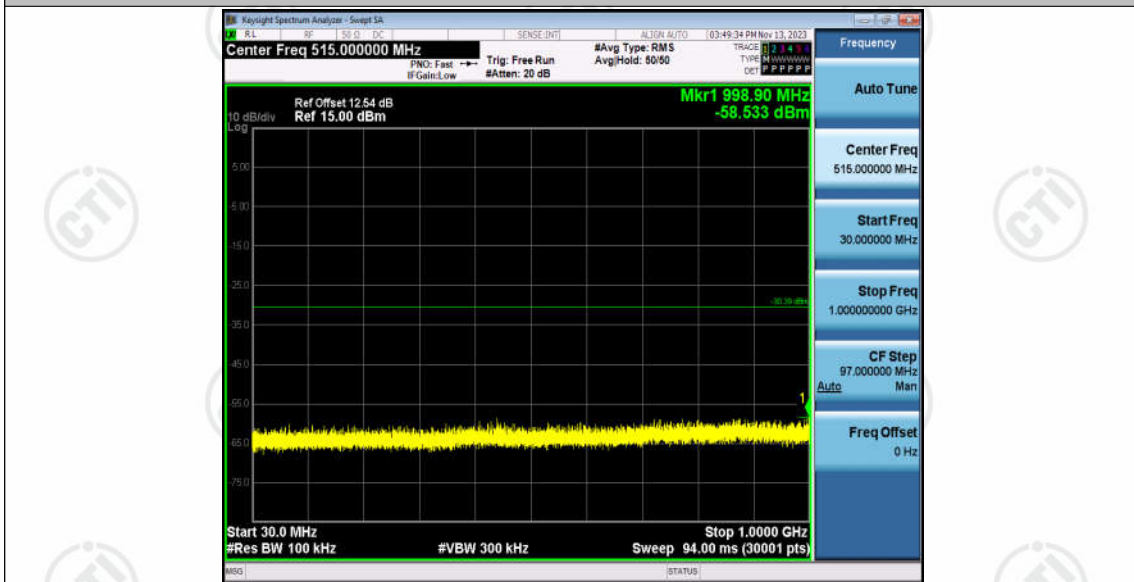
11G_Ant1_2462_1000~26500



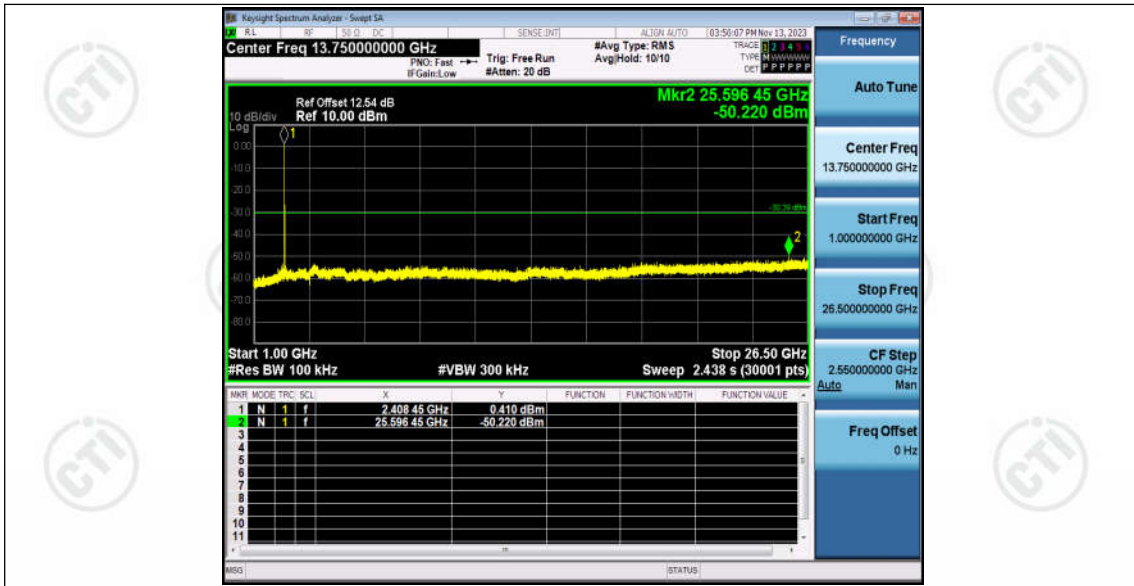
11N20SISO_Ant1_2412_0~Reference



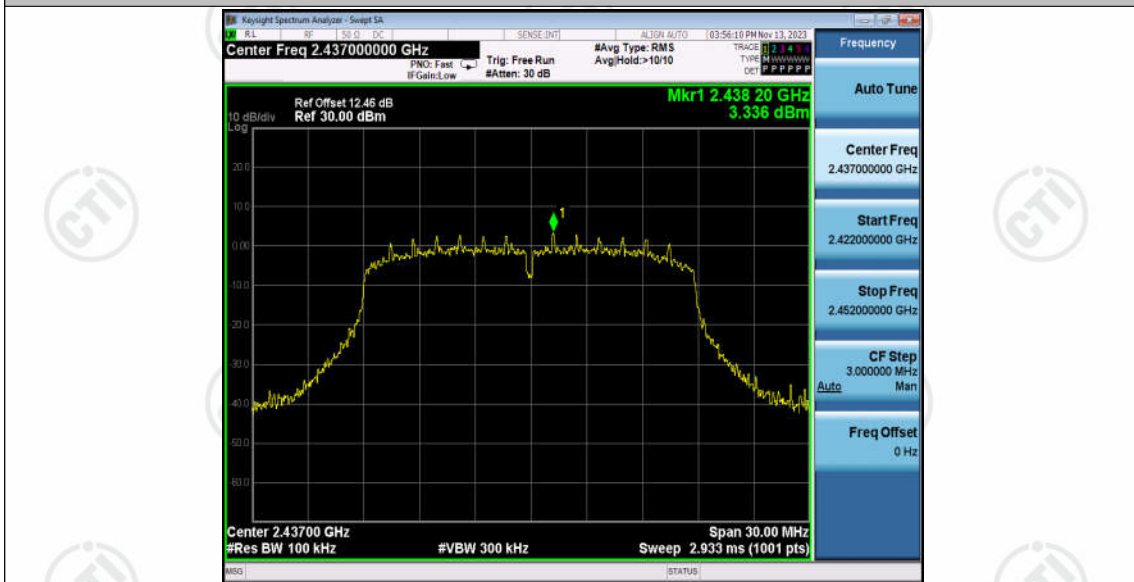
11N20SISO_Ant1_2412_30~1000



11N20SISO_Ant1_2412_1000~26500



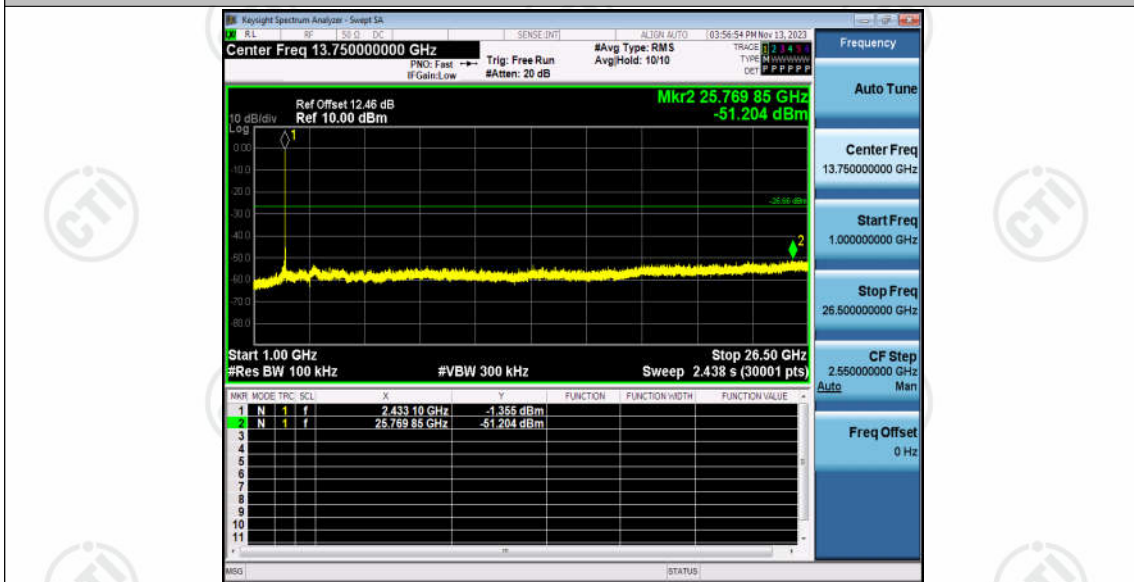
11N20SISO_Ant1_2437_0~Reference



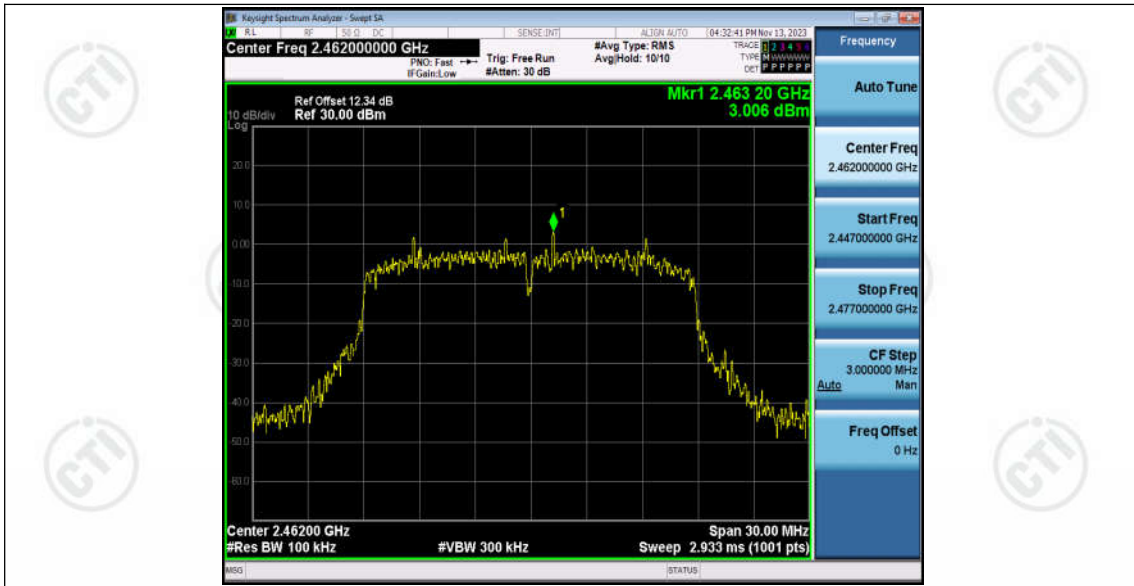
11N20SISO_Ant1_2437_30~1000



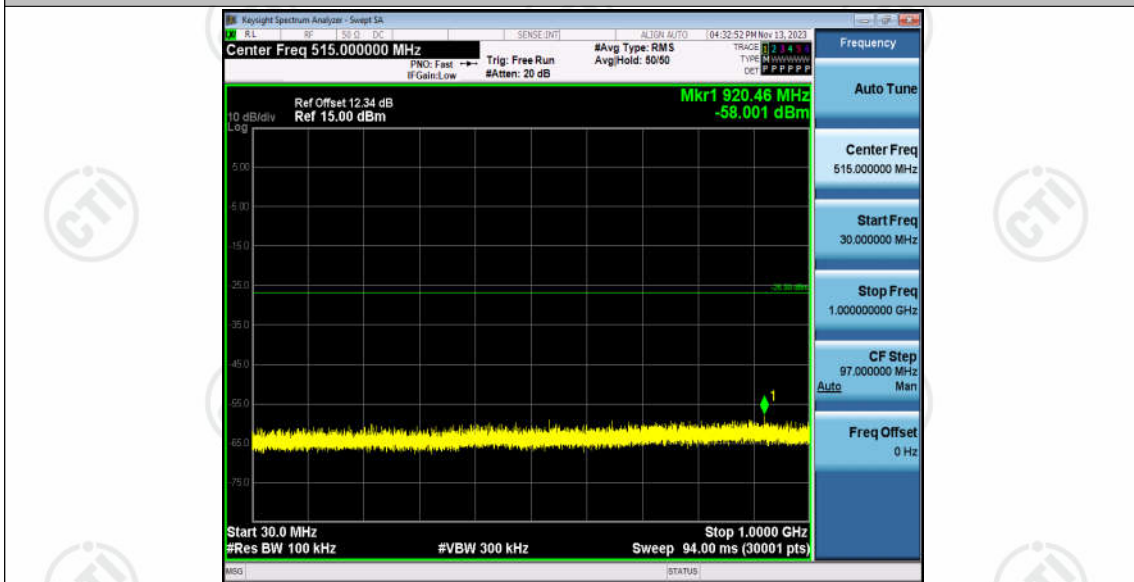
11N20SISO_Ant1_2437_1000~26500



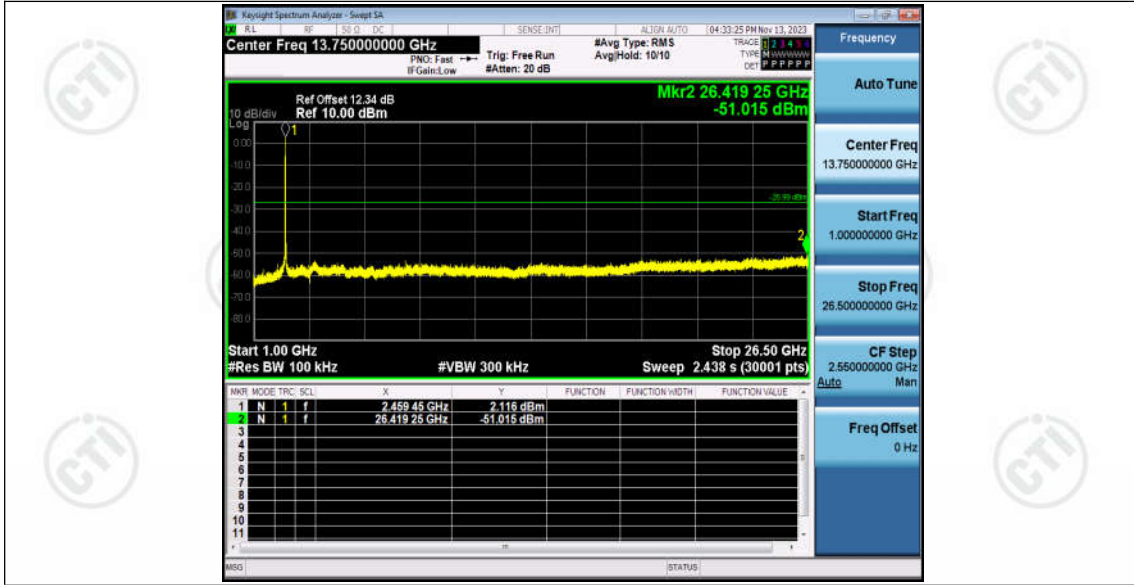
11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



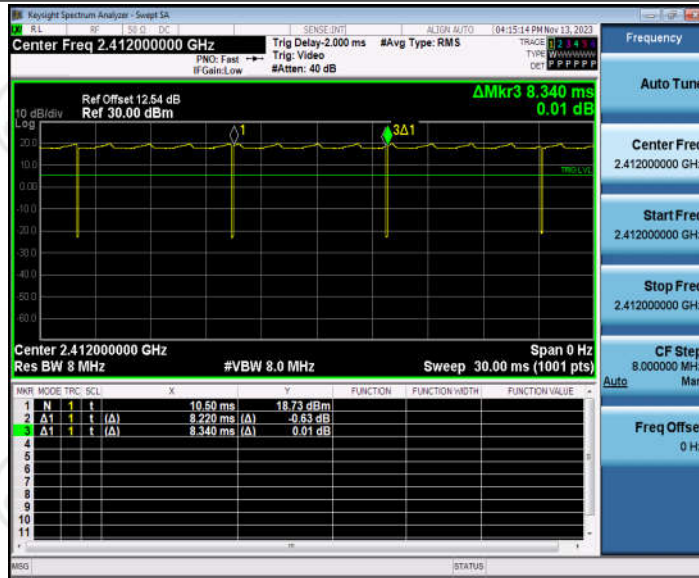
Appendix G: Duty Cycle

Test Result

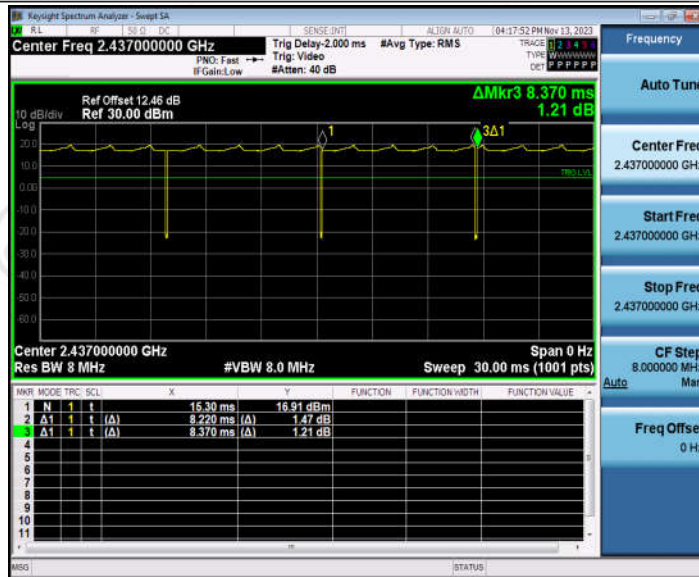
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.22	8.34	98.56	0.06
		2437	8.22	8.37	98.21	0.08
		2462	8.22	8.37	98.21	0.08
11G	Ant1	2412	1.35	1.50	90.00	0.46
		2437	1.35	1.50	90.00	0.46
		2462	1.35	1.50	90.00	0.46
11N20SIS O	Ant1	2412	1.26	1.41	89.36	0.49
		2437	1.26	1.41	89.36	0.49
		2462	1.26	1.41	89.36	0.49

Test Graphs

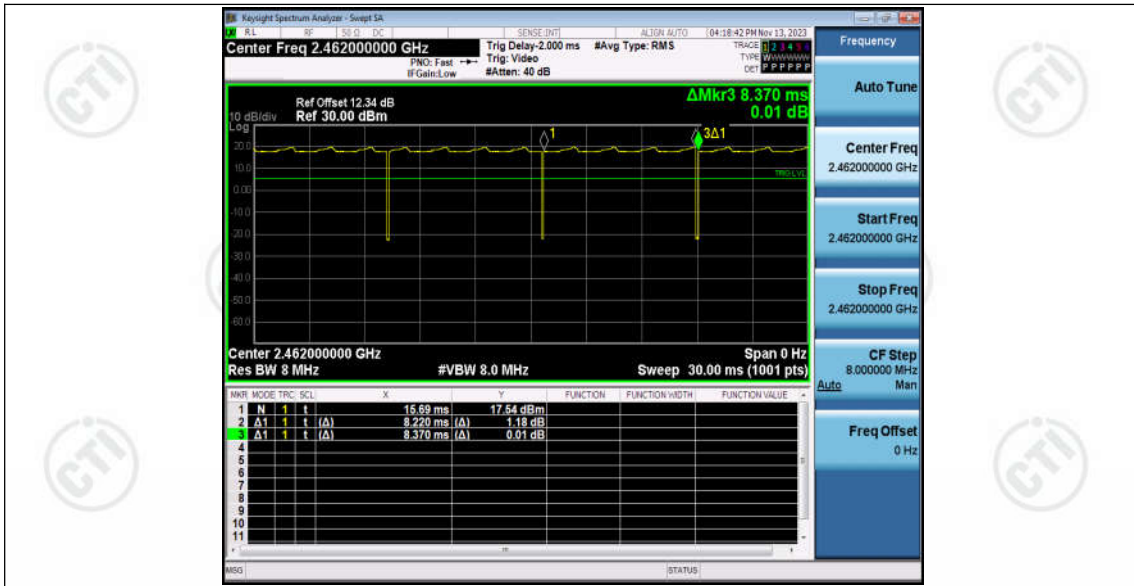
11B_Ant1_2412



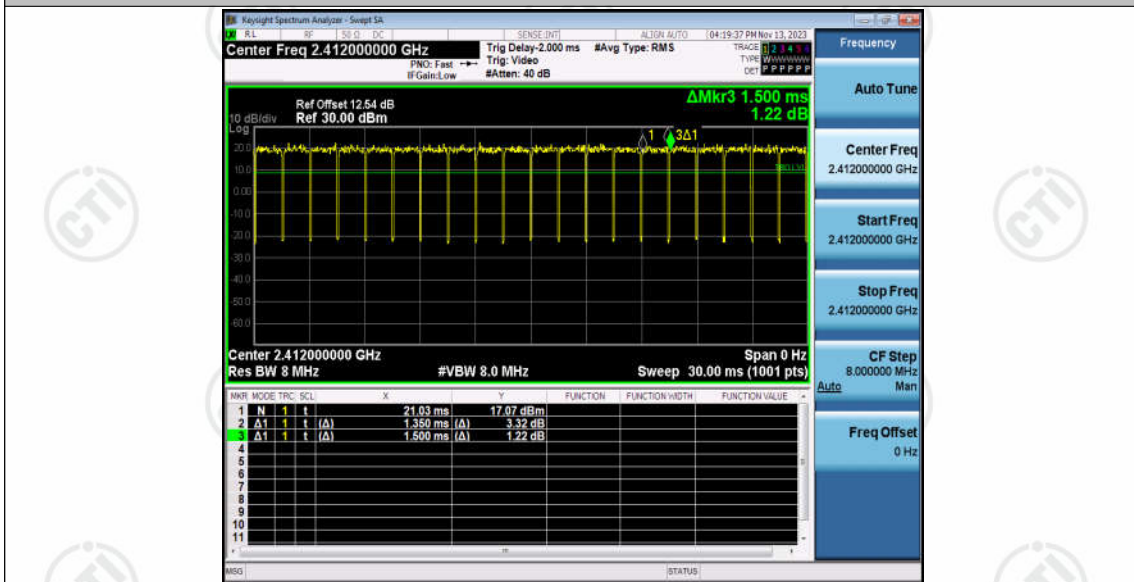
11B_Ant1_2437



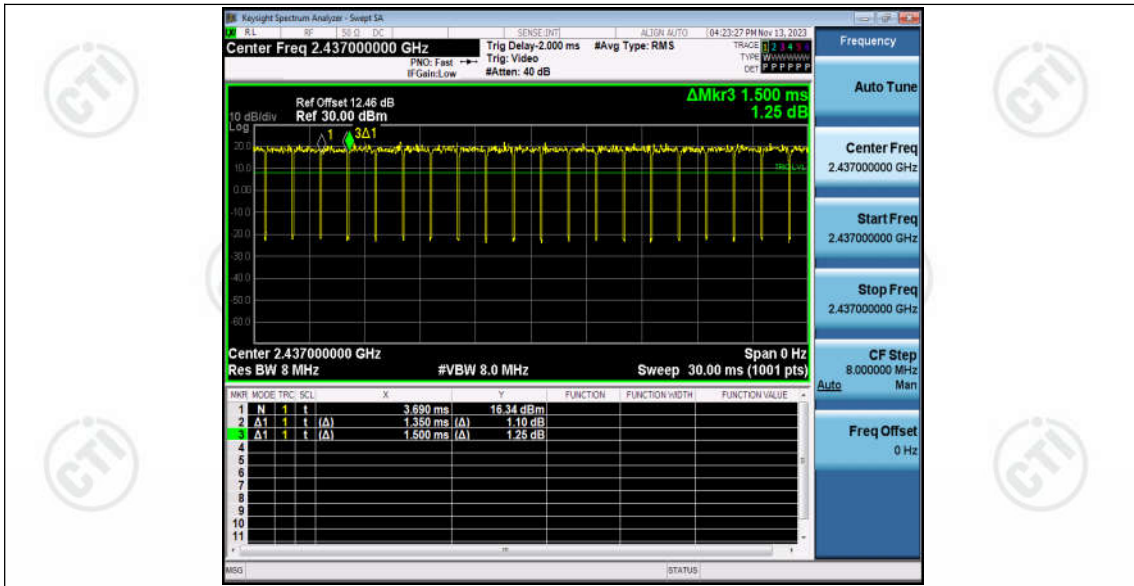
11B_Ant1_2462



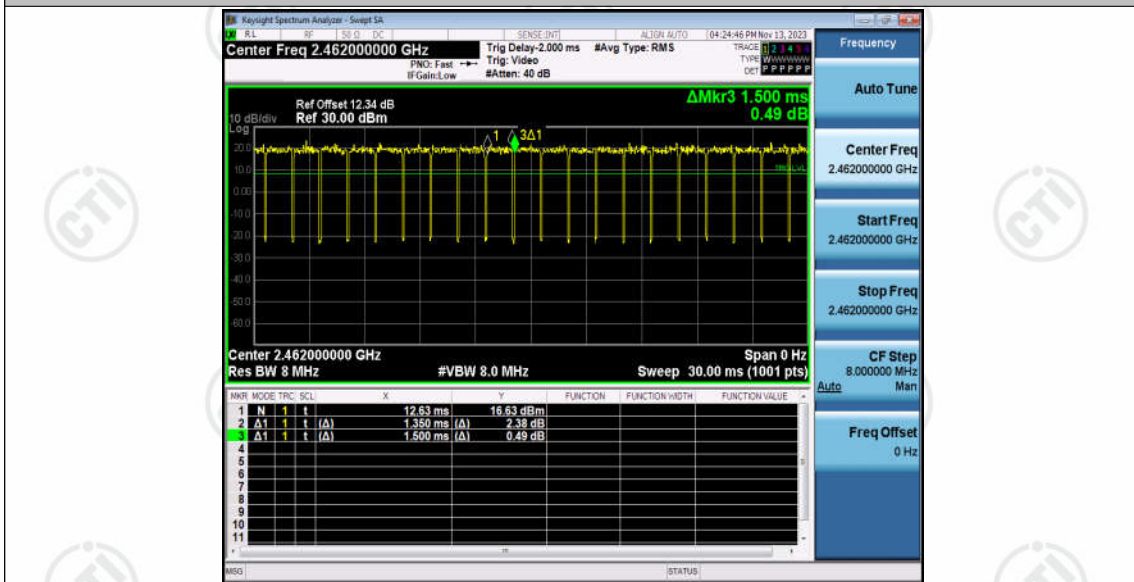
11G_Ant1_2412



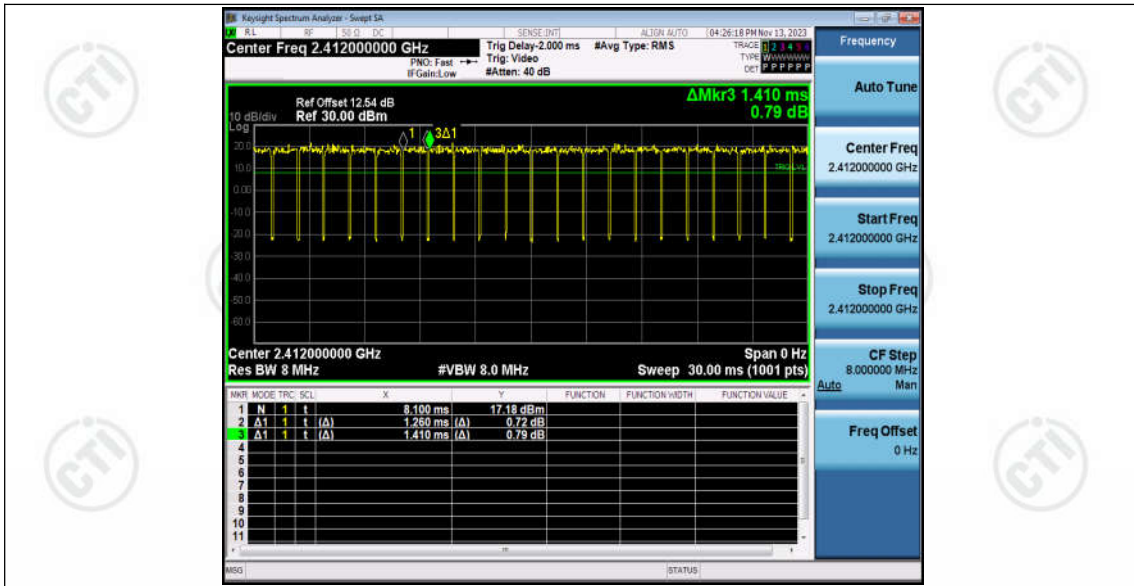
11G_Ant1_2437



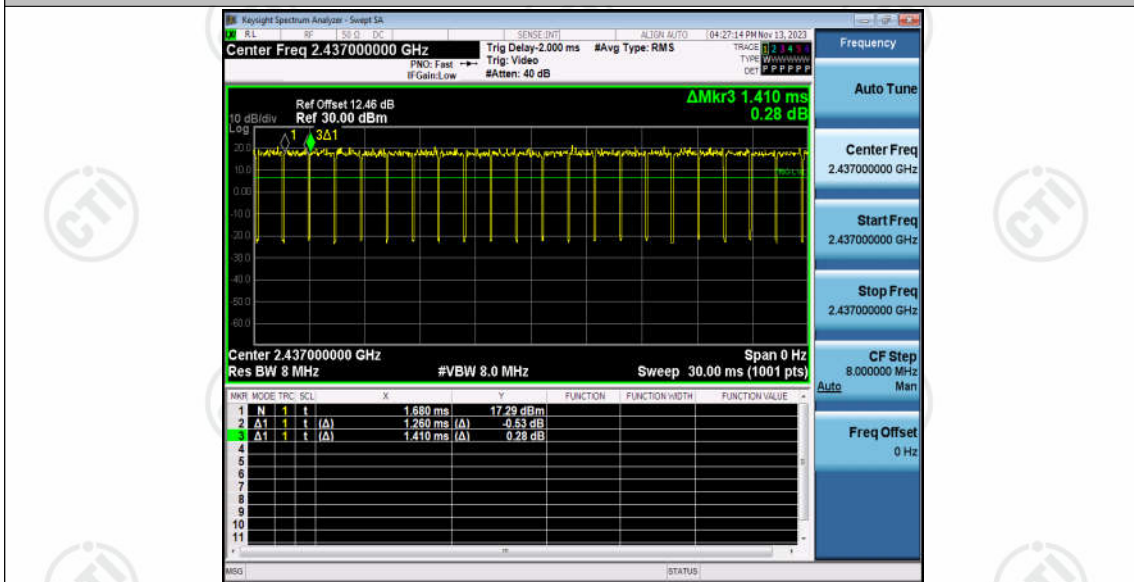
11G_Ant1_2462



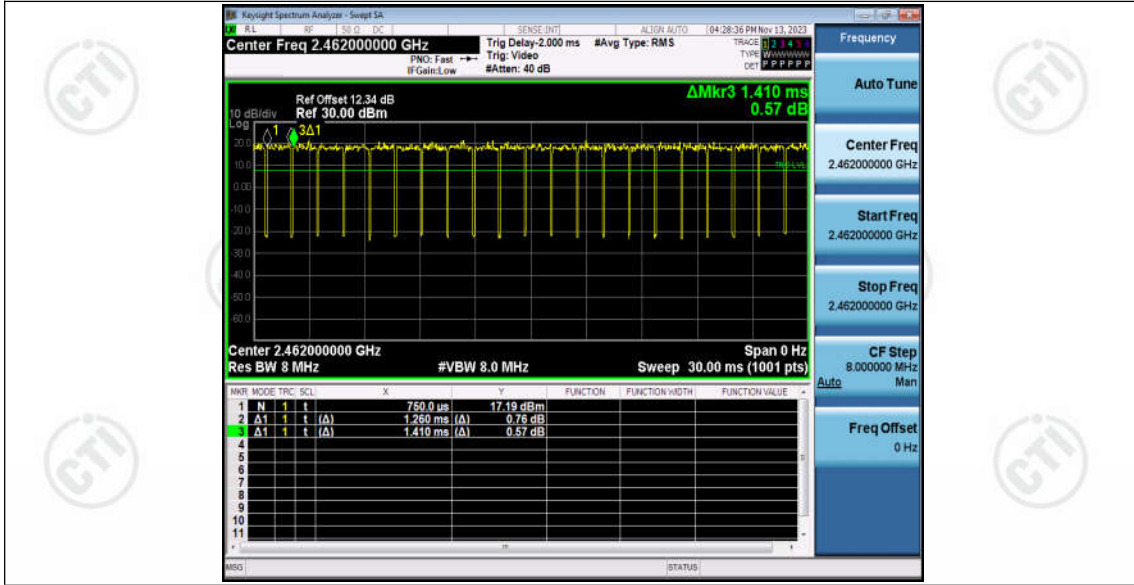
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



*** End of Report ***