

Appendix: 2.4G WIFI

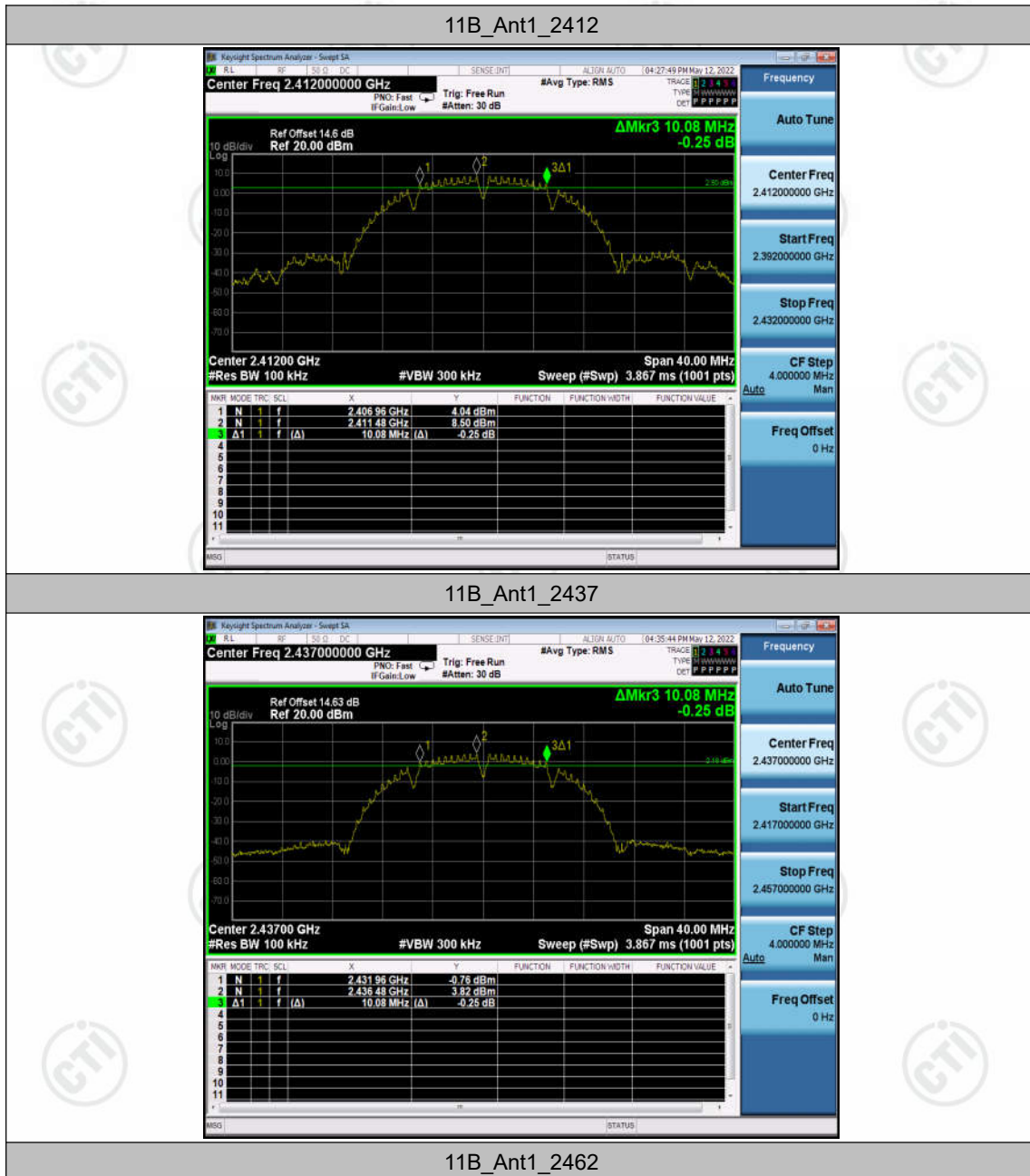
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**Appendix A: DTS Bandwidth****Test Result**

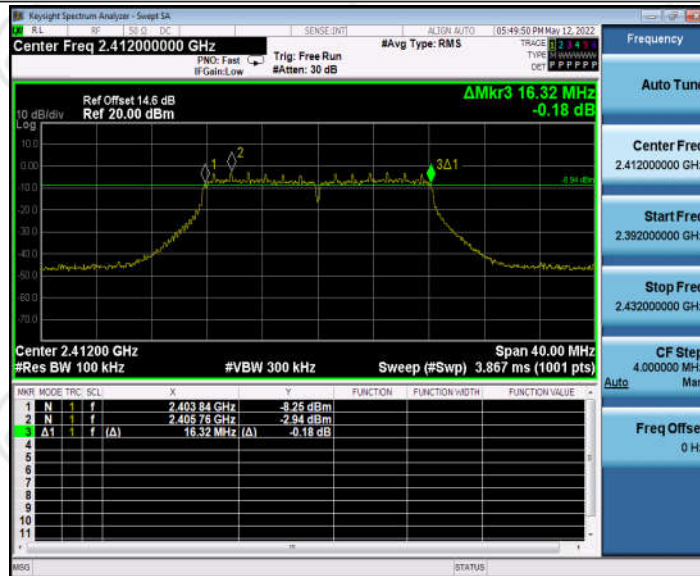
Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.080	2406.960	2417.040	0.5	PASS
		2437	10.080	2431.960	2442.040	0.5	PASS
		2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SI SO	Ant1	2412	17.040	2403.480	2420.520	0.5	PASS
		2437	17.040	2428.480	2445.520	0.5	PASS
		2462	17.040	2453.480	2470.520	0.5	PASS
11N40SI SO	Ant1	2422	35.440	2404.400	2439.840	0.5	PASS
		2437	35.680	2419.080	2454.760	0.5	PASS
		2452	35.680	2434.080	2469.760	0.5	PASS

## Test Graphs

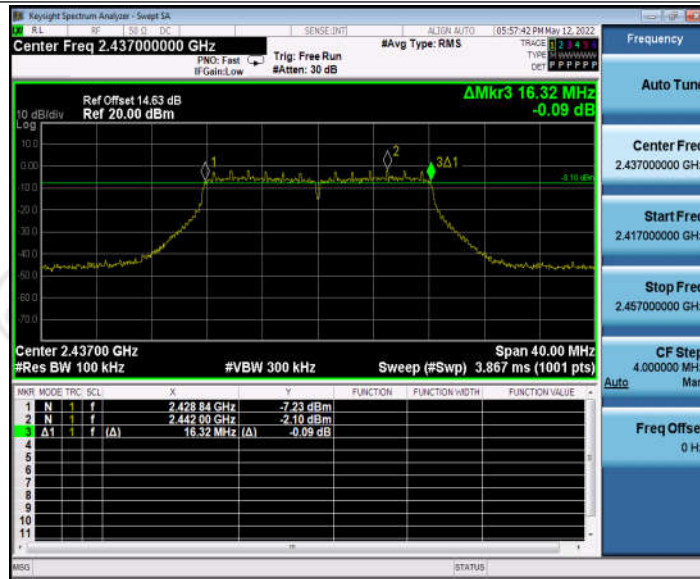




11G\_Ant1\_2412



11G\_Ant1\_2437



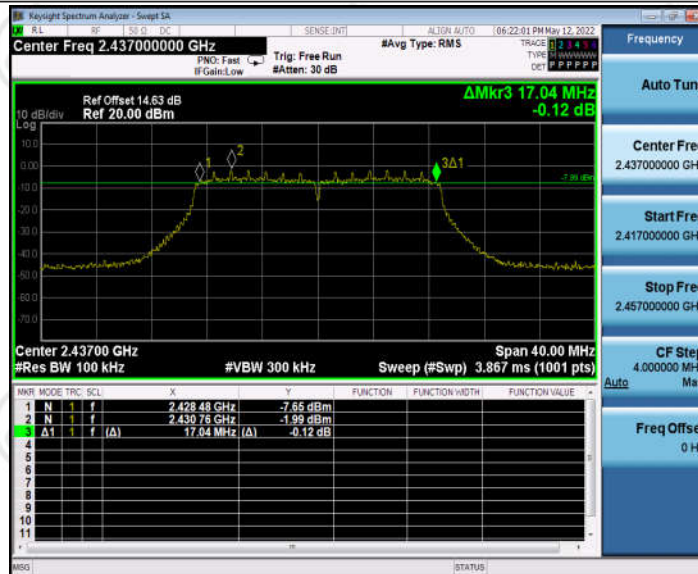
11G\_Ant1\_2462



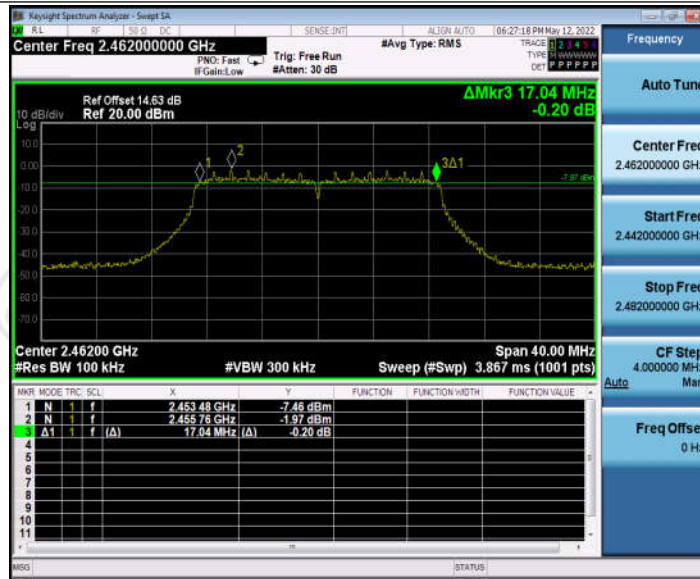
11N20SISO\_Ant1\_2412



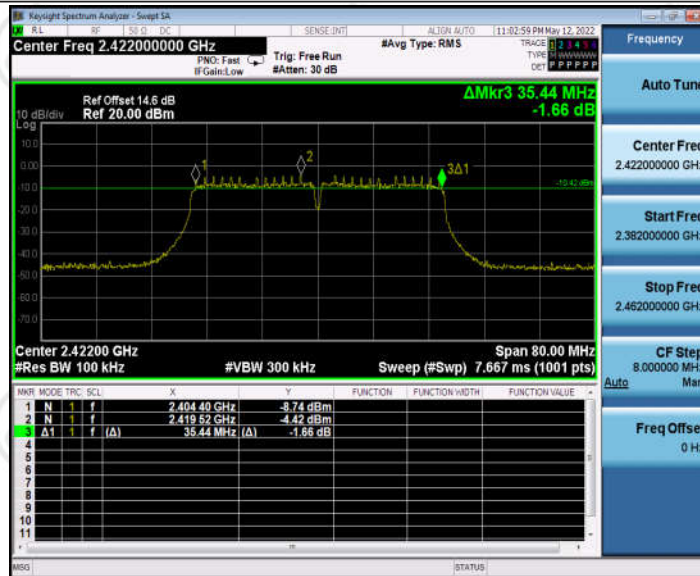
11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462

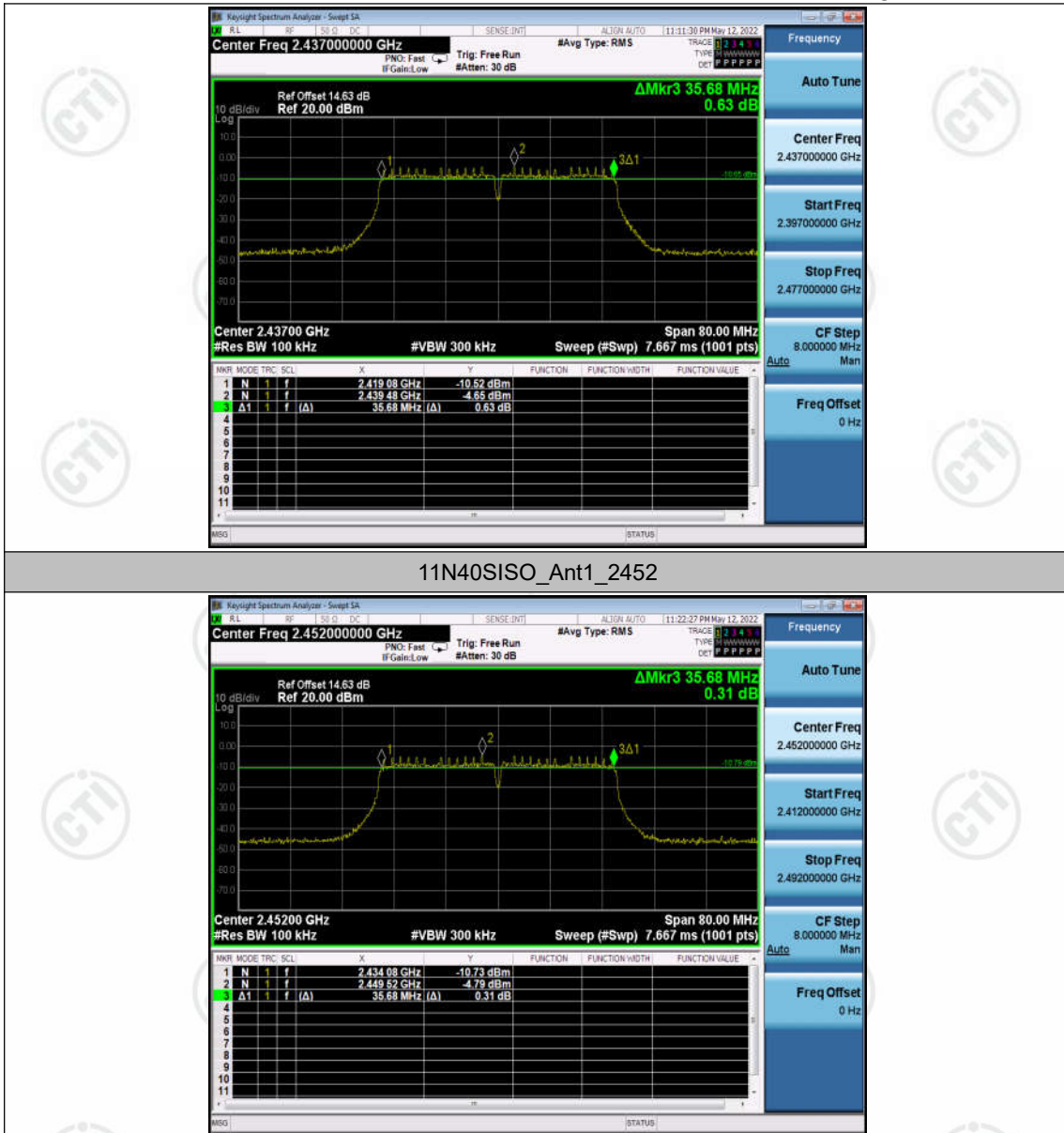


11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437



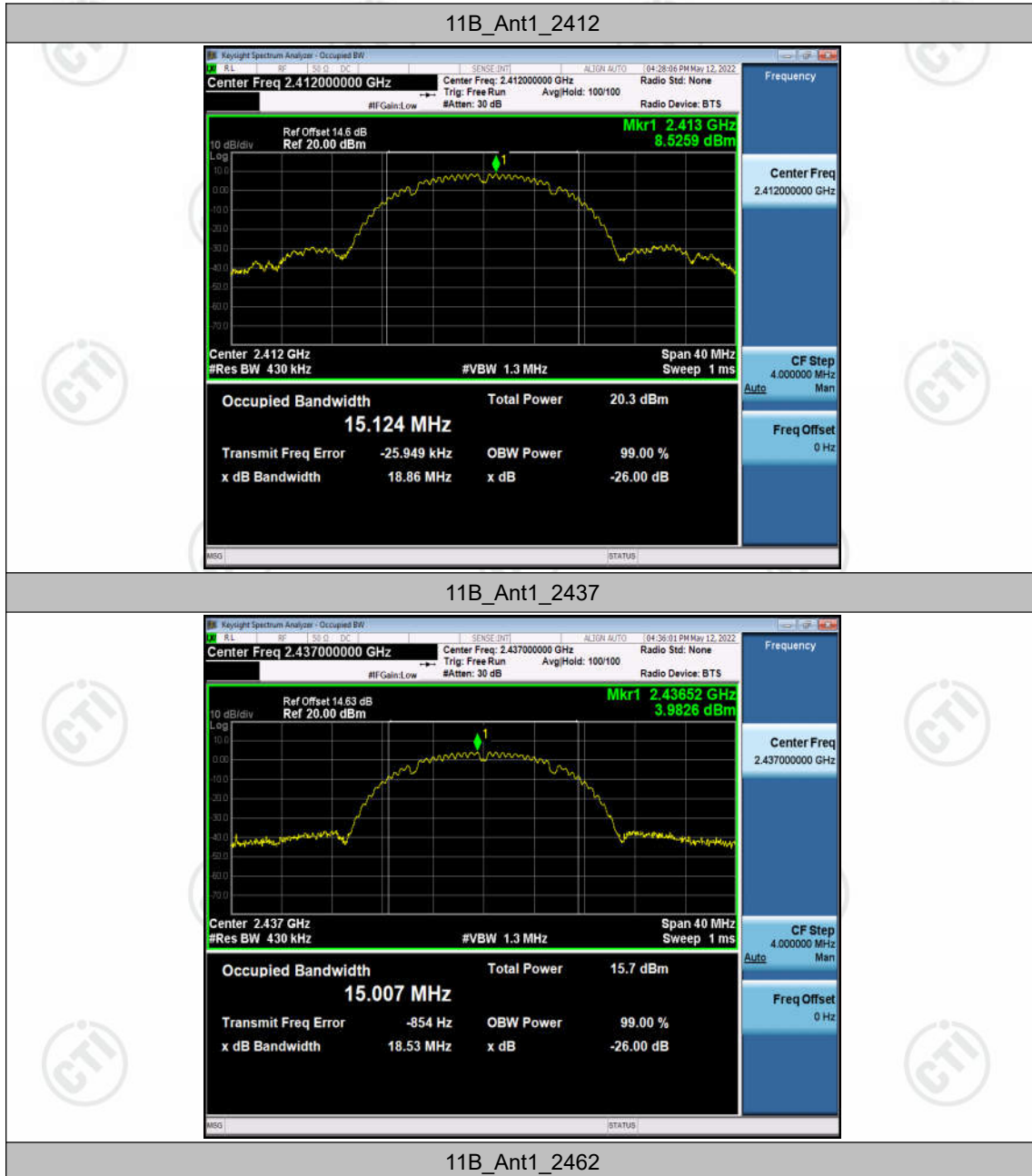


## Appendix B: Occupied Channel Bandwidth

### Test Result

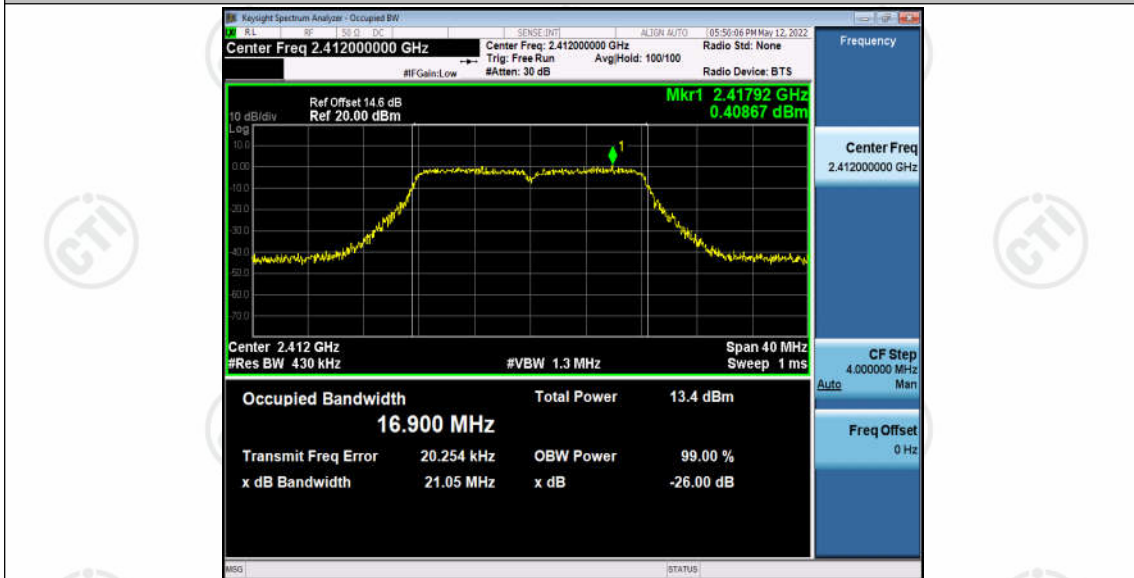
Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.124	2404.412	2419.536	---	---
		2437	15.007	2429.496	2444.503	---	---
		2462	14.991	2454.483	2469.474	---	---
11G	Ant1	2412	16.900	2403.570	2420.470	---	---
		2437	16.783	2428.578	2445.361	---	---
		2462	16.883	2453.535	2470.418	---	---
11N20SI SO	Ant1	2412	17.813	2403.104	2420.917	---	---
		2437	17.868	2428.053	2445.921	---	---
		2462	17.857	2453.060	2470.917	---	---
11N40SI SO	Ant1	2422	36.160	2403.953	2440.113	---	---
		2437	36.198	2418.882	2455.080	---	---
		2452	36.144	2433.921	2470.065	---	---

## Test Graphs

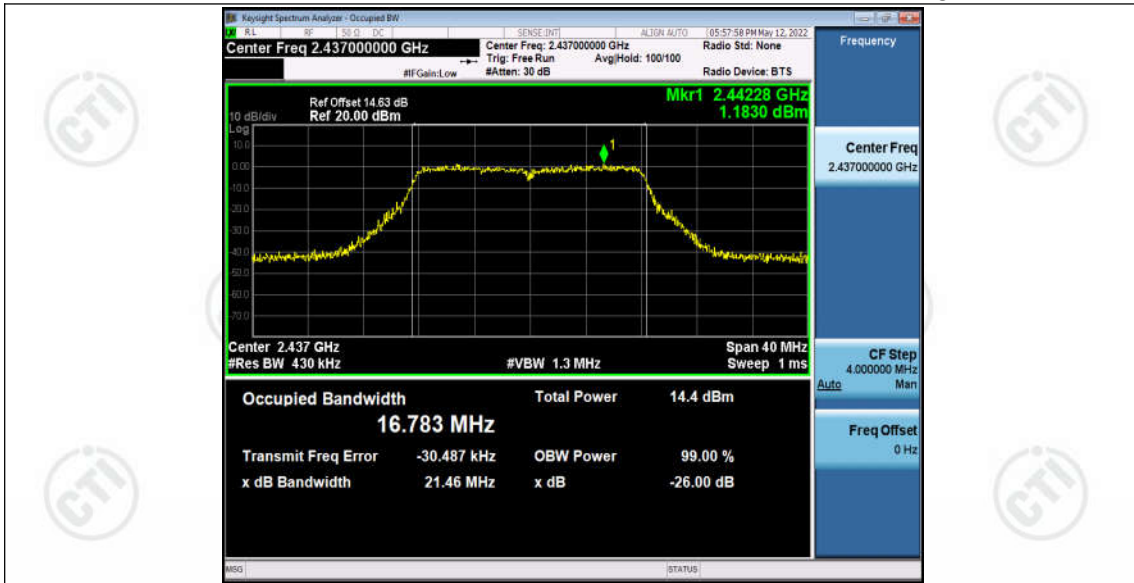




11G\_Ant1\_2412



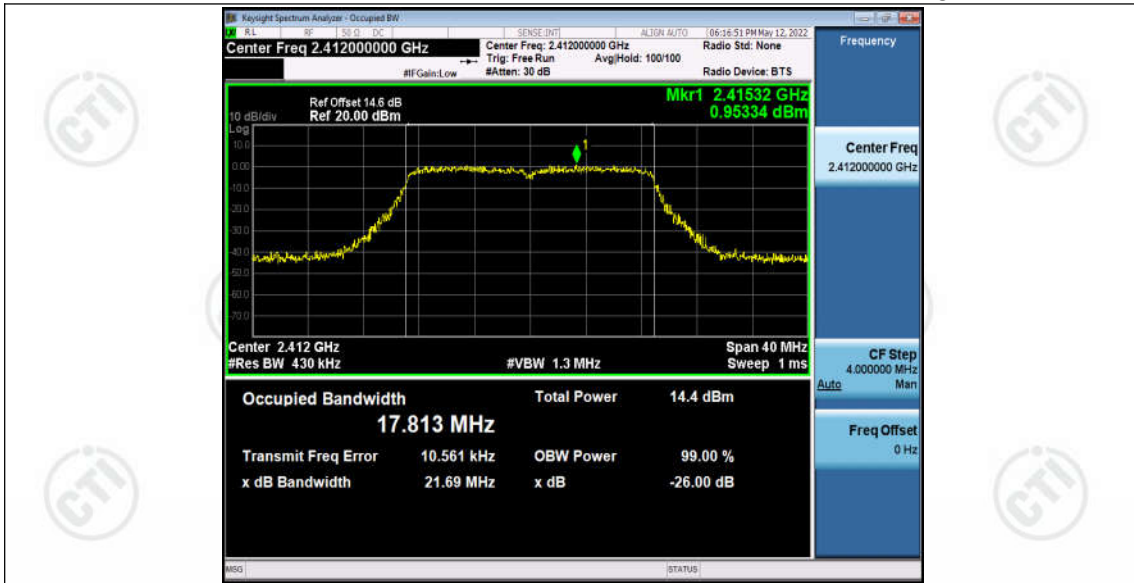
11G\_Ant1\_2437



11G\_Ant1\_2462



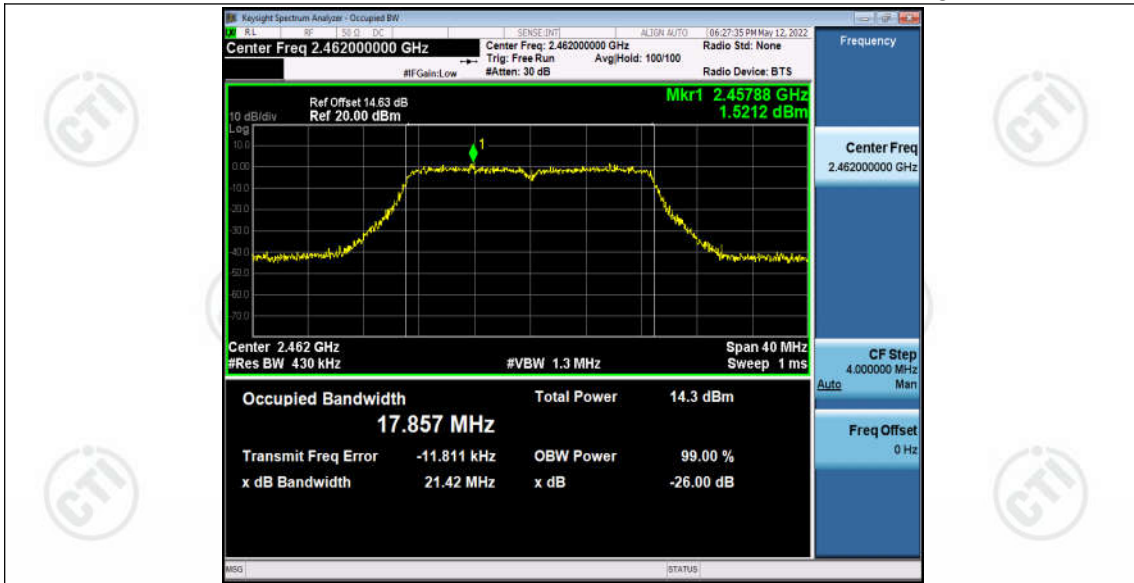
11N20SISO\_Ant1\_2412



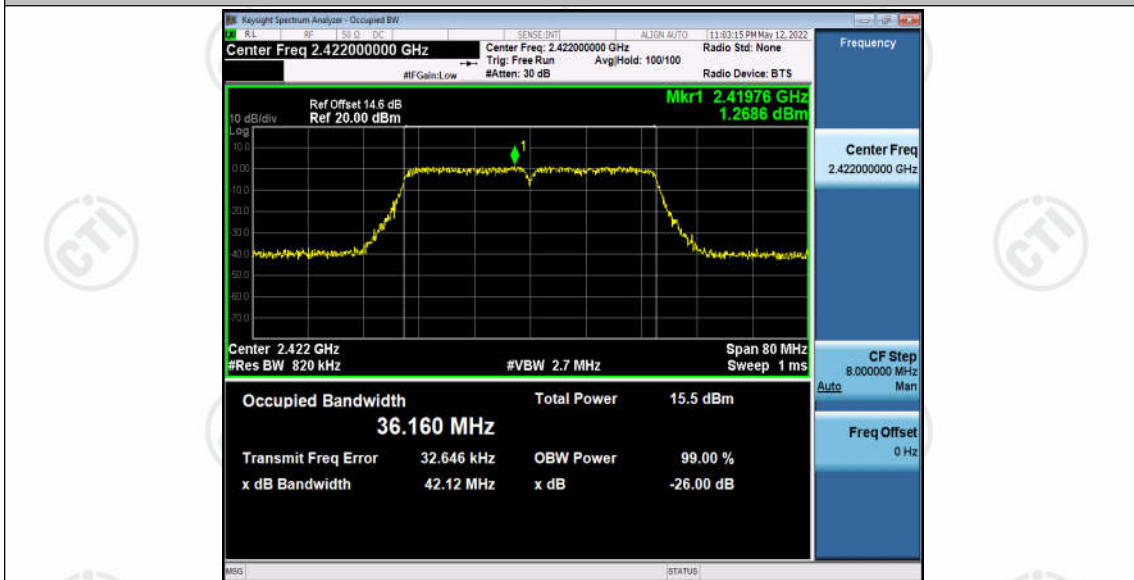
11N20SISO\_Ant1\_2437



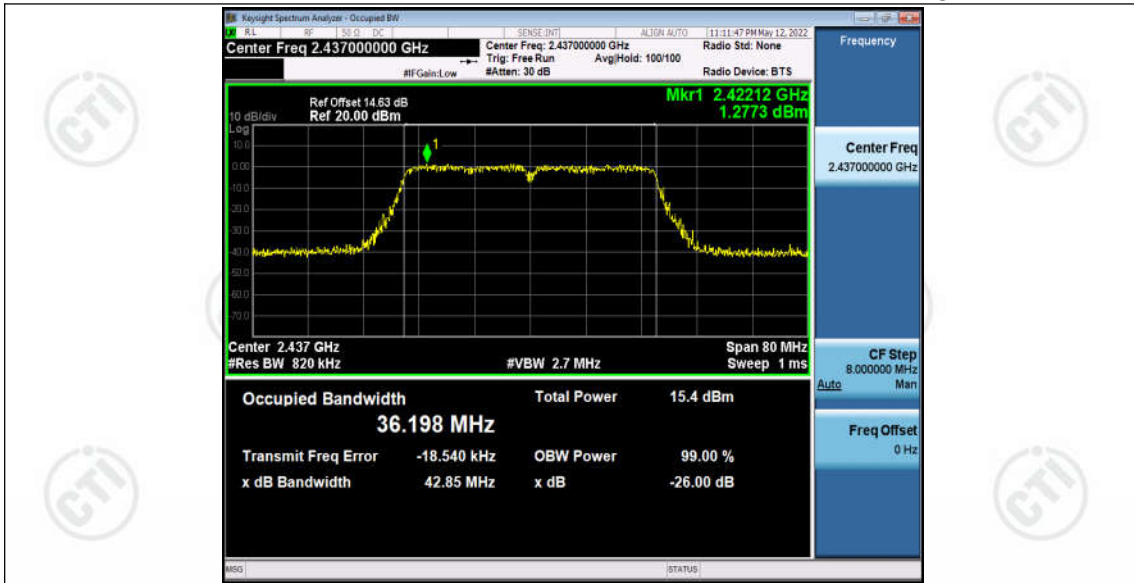
11N20SISO\_Ant1\_2462



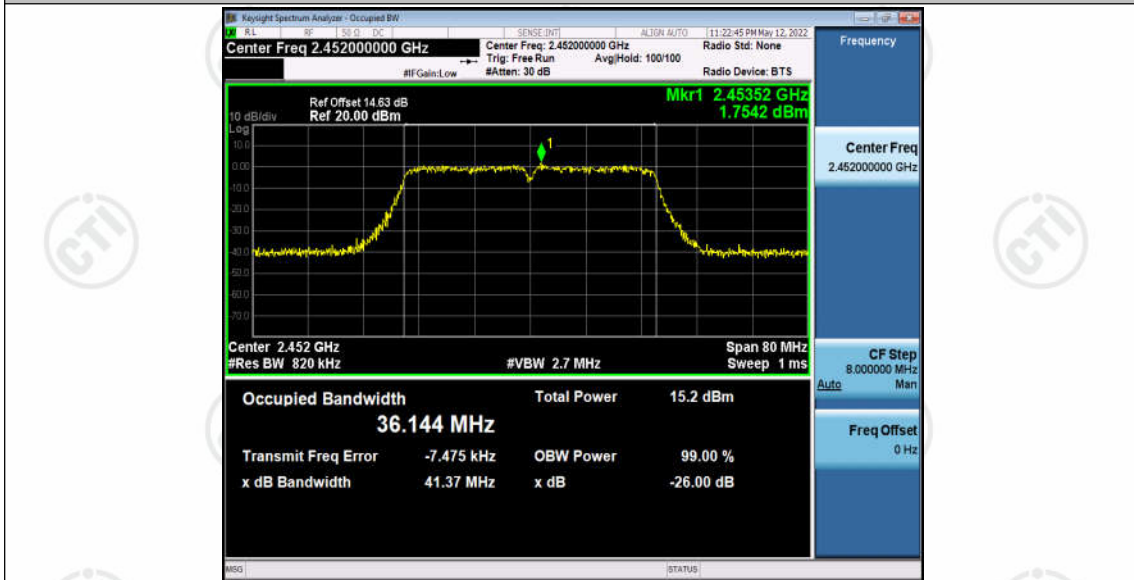
11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452





## Appendix C: Maximum conducted output power

### Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Set Power	Peak Power [dBm]	Conducted Limit [dBm]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11B	Ant1	2412	---	15.55	≤30.00	15.55	≤36.00	PASS
		2437	---	15.47	≤30.00	15.47	≤36.00	PASS
		2462	---	15.22	≤30.00	15.22	≤36.00	PASS
11G	Ant1	2412	---	15.28	≤30.00	15.28	≤36.00	PASS
		2437	---	15.19	≤30.00	15.19	≤36.00	PASS
		2462	---	15.17	≤30.00	15.17	≤36.00	PASS
11N20SIS O	Ant1	2412	---	15.22	≤30.00	15.22	≤36.00	PASS
		2437	---	15.14	≤30.00	15.14	≤36.00	PASS
		2462	---	15.07	≤30.00	15.07	≤36.00	PASS
11N40SIS O	Ant1	<b>2422</b>	---	<b>15.79</b>	≤30.00	15.79	≤36.00	PASS
		2437	---	15.68	≤30.00	15.68	≤36.00	PASS
		2452	---	15.51	≤30.00	15.51	≤36.00	PASS

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

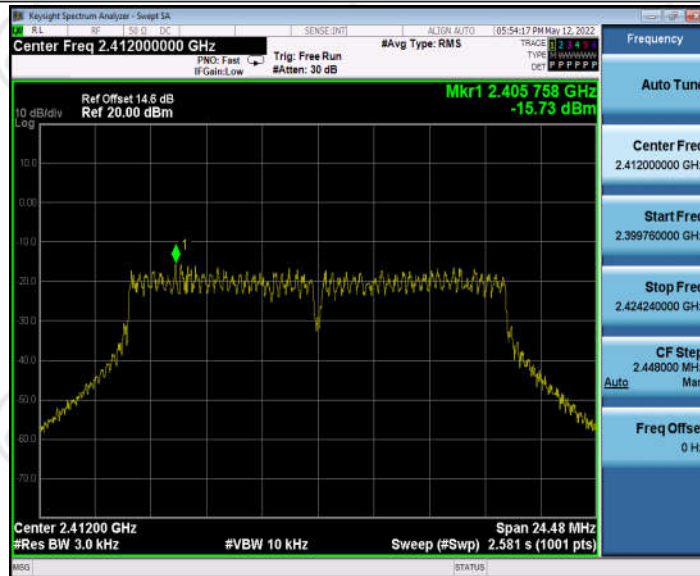
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.75	≤8.00	PASS
		2437	-9.05	≤8.00	PASS
		2462	-9.95	≤8.00	PASS
11G	Ant1	2412	-15.73	≤8.00	PASS
		2437	-15.37	≤8.00	PASS
		2462	-16	≤8.00	PASS
11N20SISO	Ant1	2412	-15.88	≤8.00	PASS
		2437	-15.59	≤8.00	PASS
		2462	-16.59	≤8.00	PASS
11N40SISO	Ant1	2422	-18.67	≤8.00	PASS
		2437	-18.25	≤8.00	PASS
		2452	-19.36	≤8.00	PASS

## Test Graphs

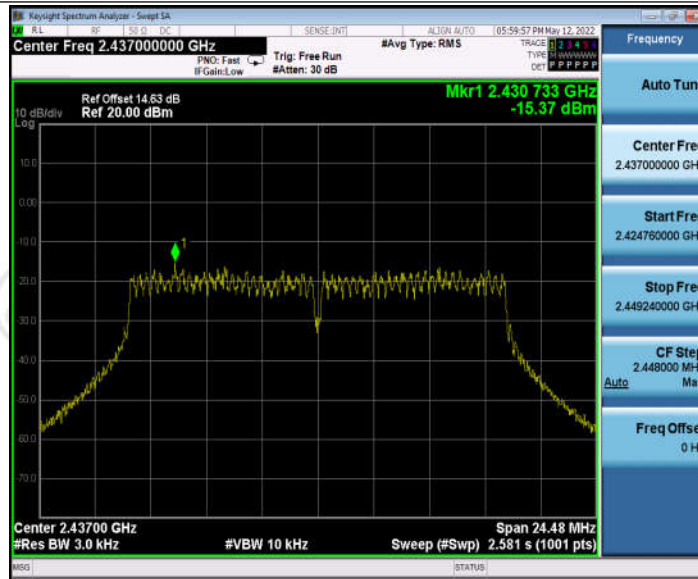




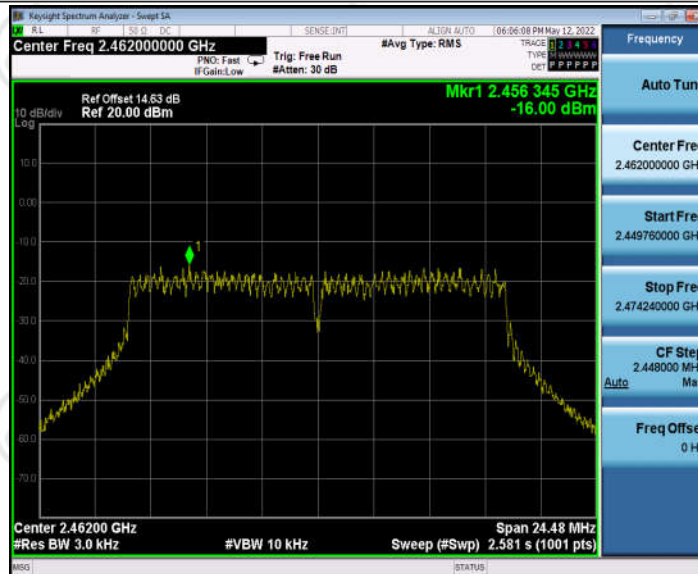
11G\_Ant1\_2412



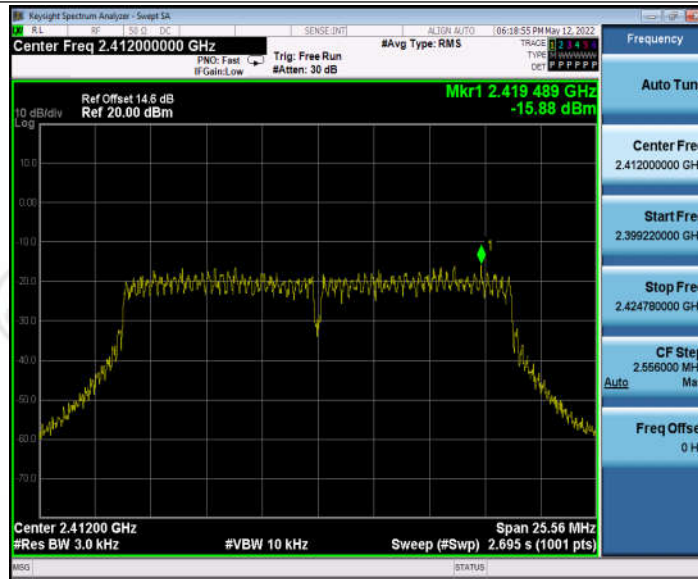
11G\_Ant1\_2437



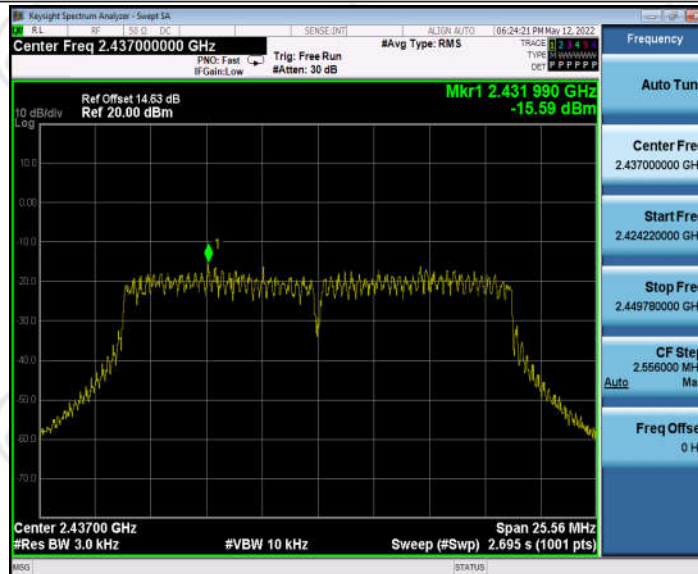
11G\_Ant1\_2462



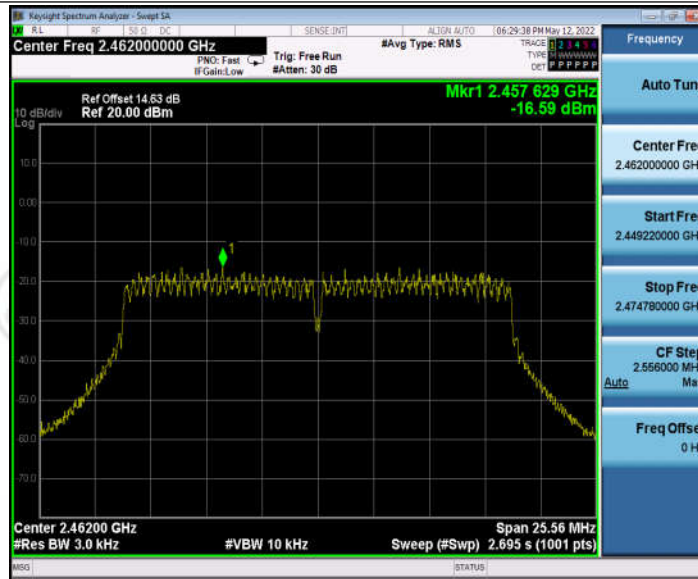
11N20SISO\_Ant1\_2412



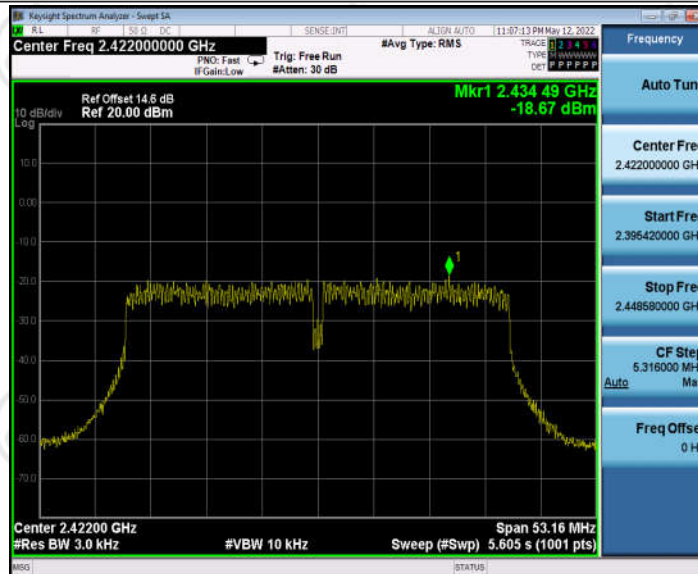
11N20SISO\_Ant1\_2437



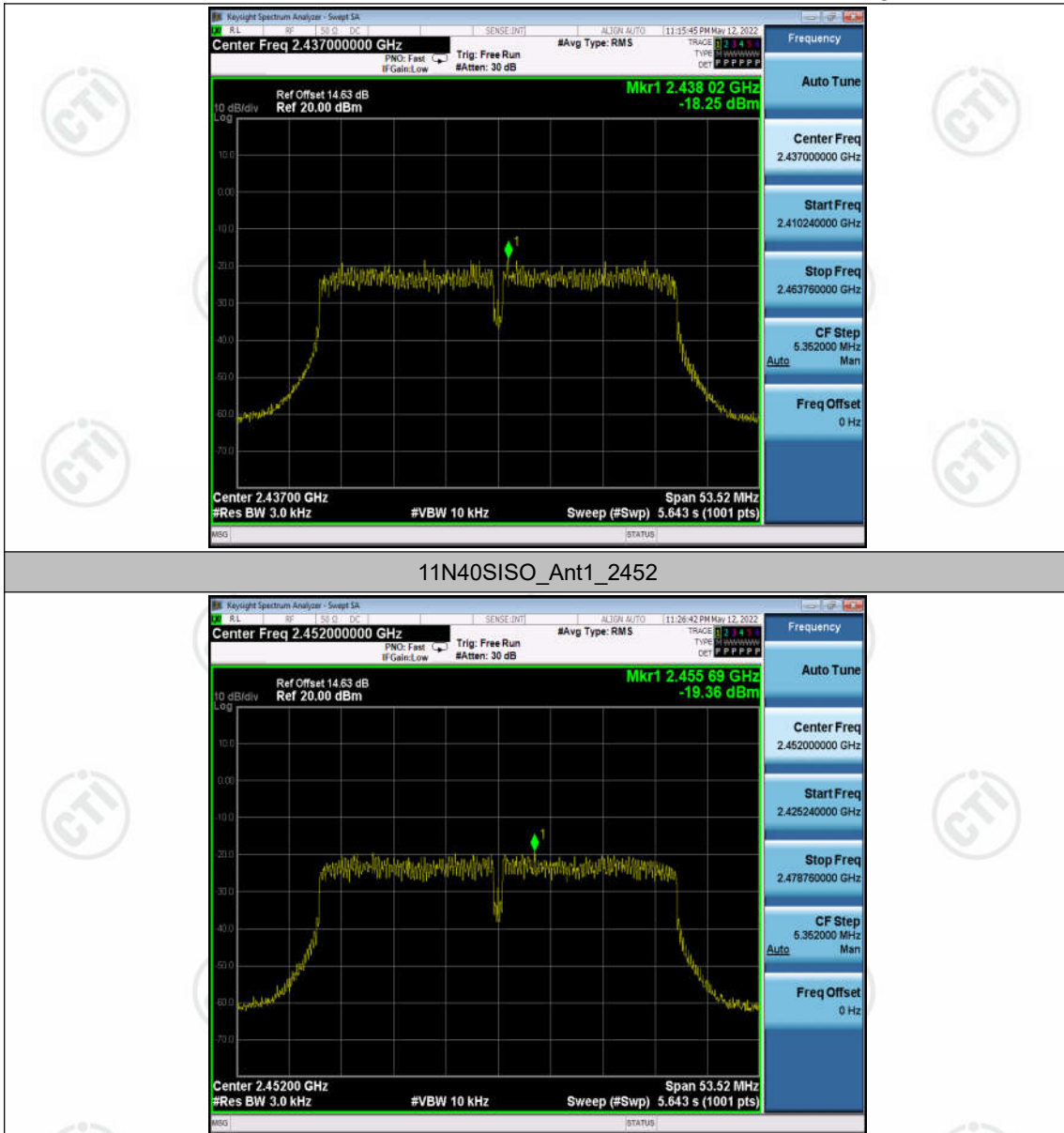
11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437

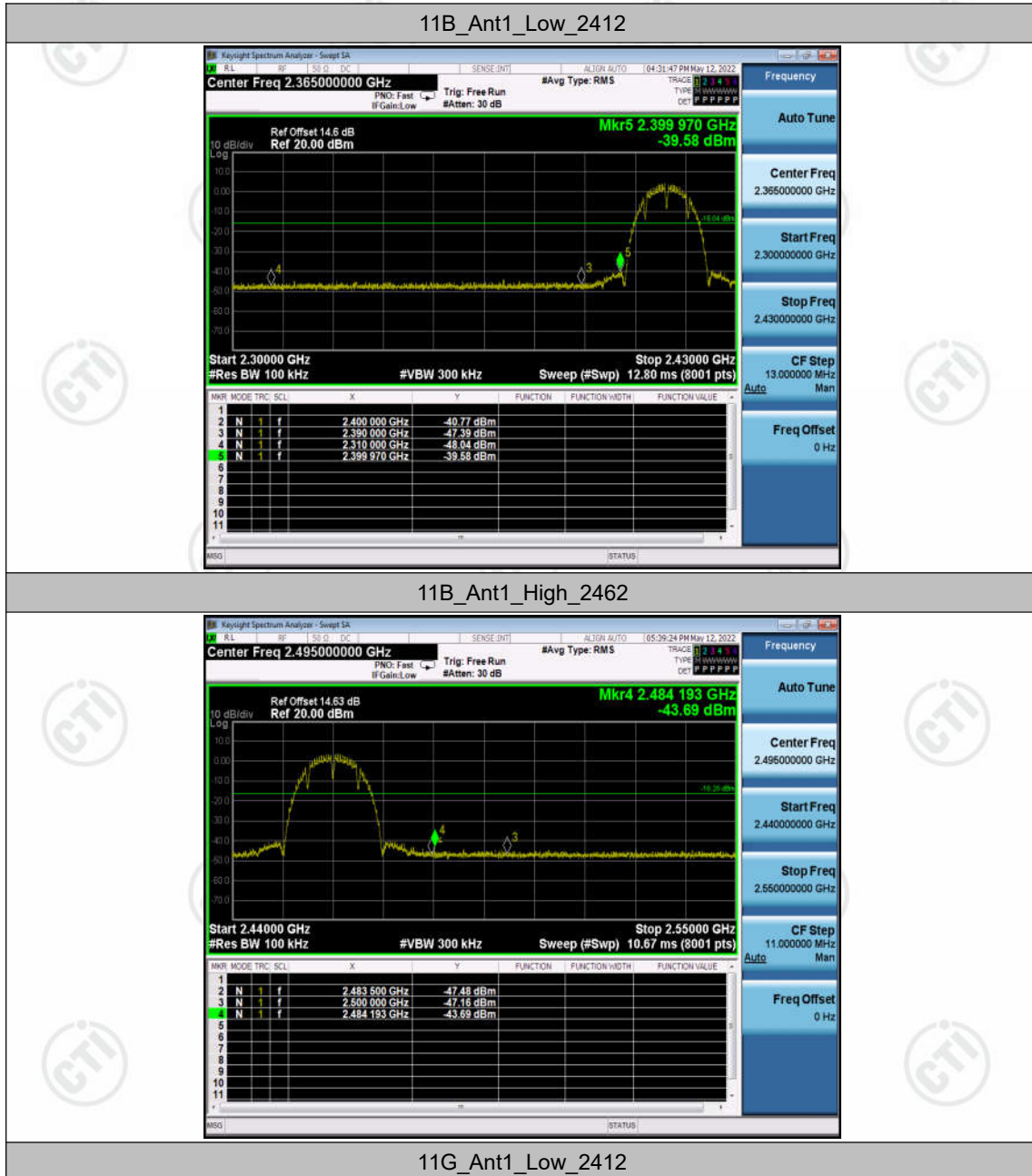


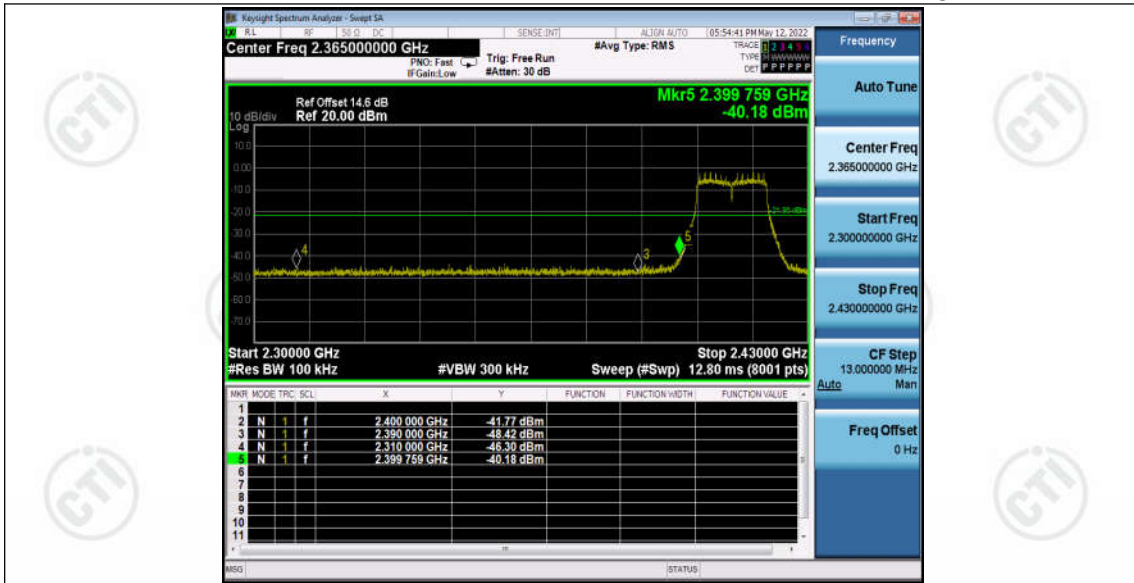


**Appendix E: Band edge measurements****Test Result**

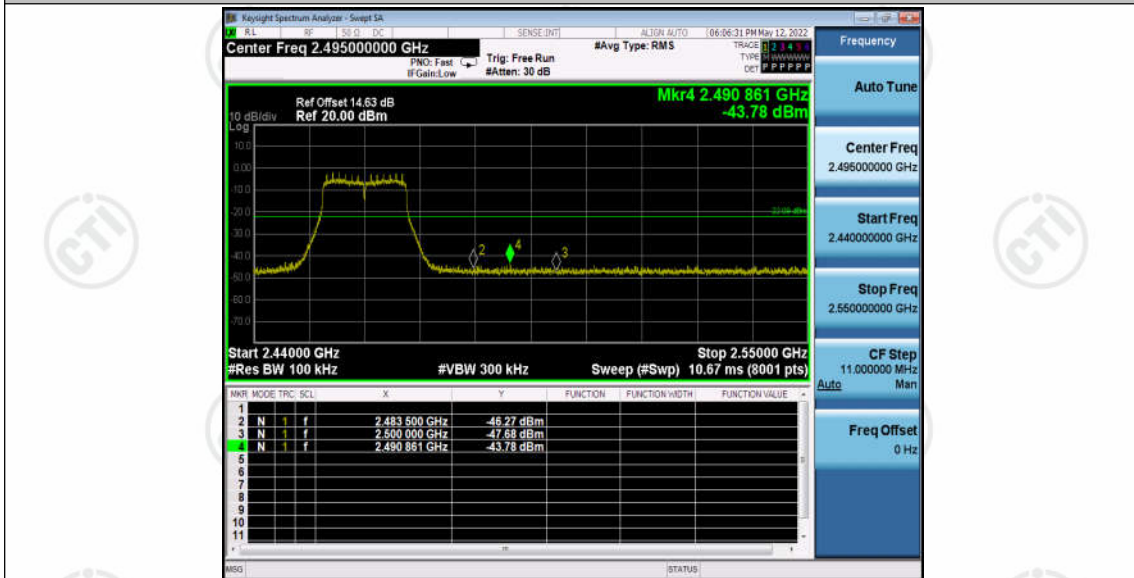
Test Mode	Antenna	Channel Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	3.96	-39.58	≤-16.04	PASS
		High	2462	3.72	-43.69	≤-16.28	PASS
11G	Ant1	Low	2412	-1.95	-40.18	≤-21.95	PASS
		High	2462	-2.09	-43.78	≤-22.09	PASS
11N20SI SO	Ant1	Low	2412	-2.00	-39.39	≤-22	PASS
		High	2462	-2.06	-44.06	≤-22.06	PASS
11N40SI SO	Ant1	Low	2422	-4.55	-39.86	≤-24.55	PASS
		High	2452	-4.79	-43.34	≤-24.79	PASS

## Test Graphs

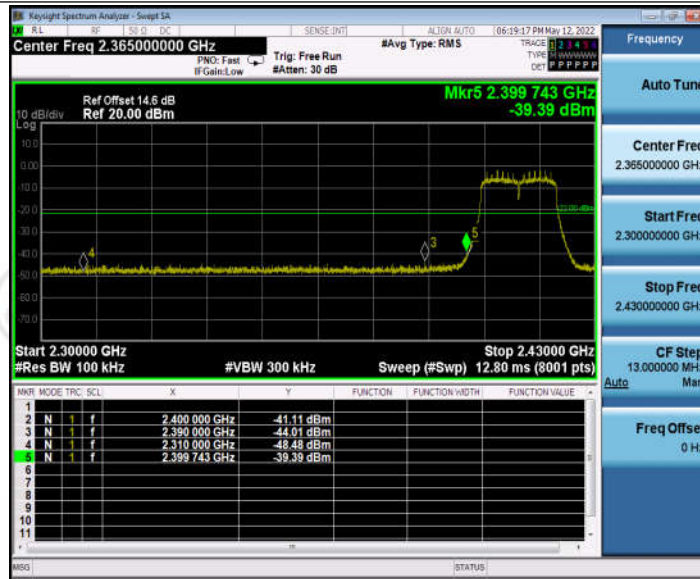




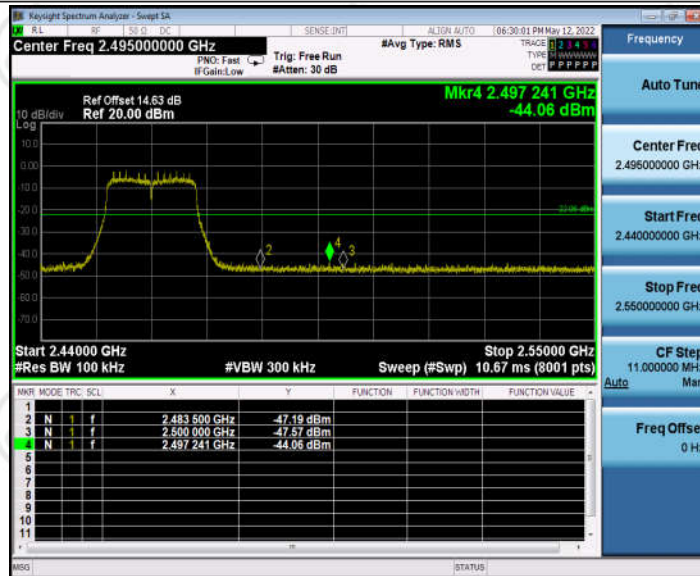
11G\_Ant1\_High\_2462



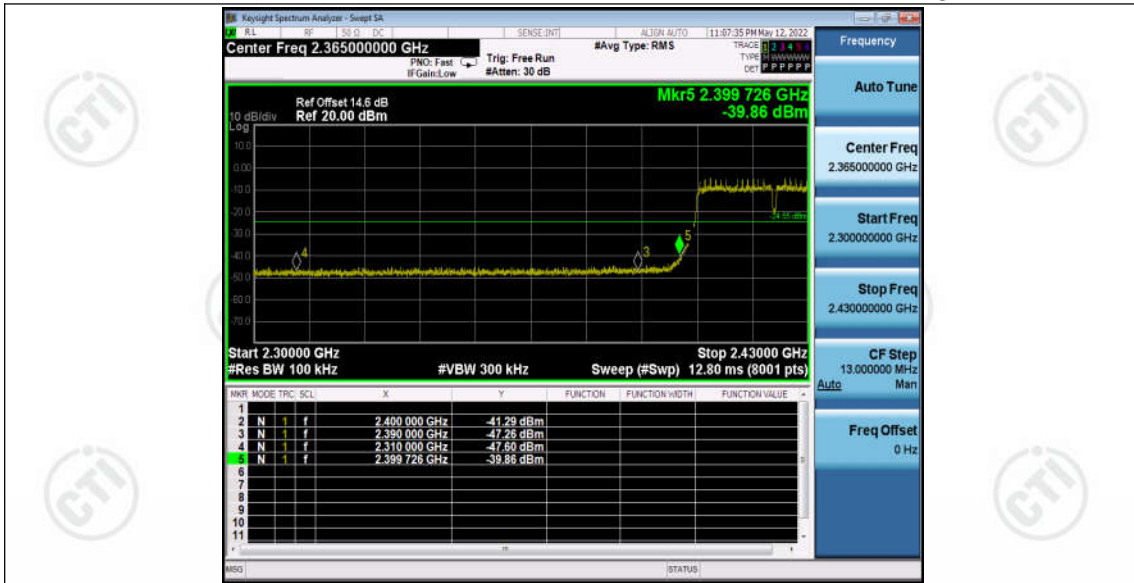
11N20SISO\_Ant1\_Low\_2412



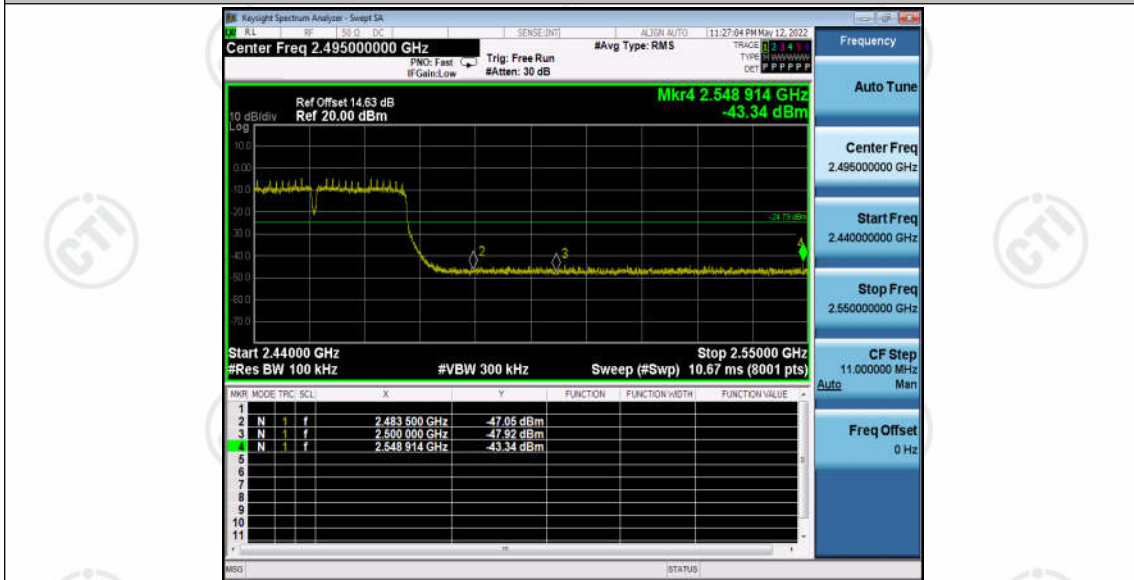
11N20SISO\_Ant1\_High\_2462



11N40SISO\_Ant1\_Low\_2422



11N40SISO\_Ant1\_High\_2452

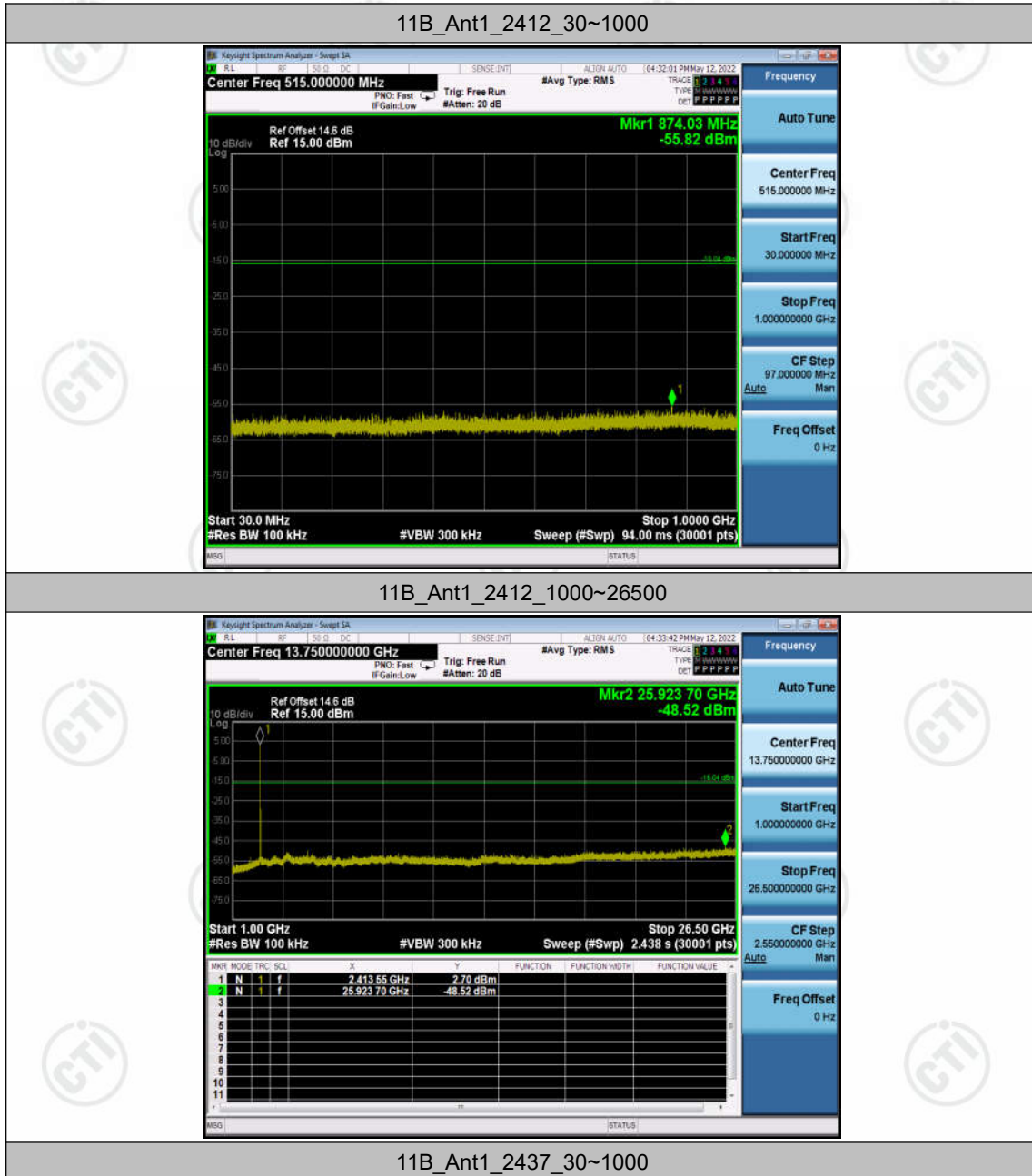


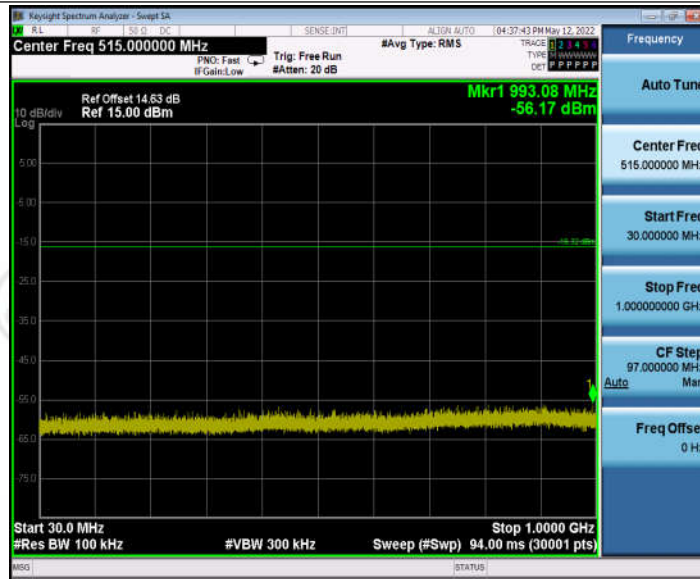
## Appendix F: Conducted Spurious Emission

### Test Result

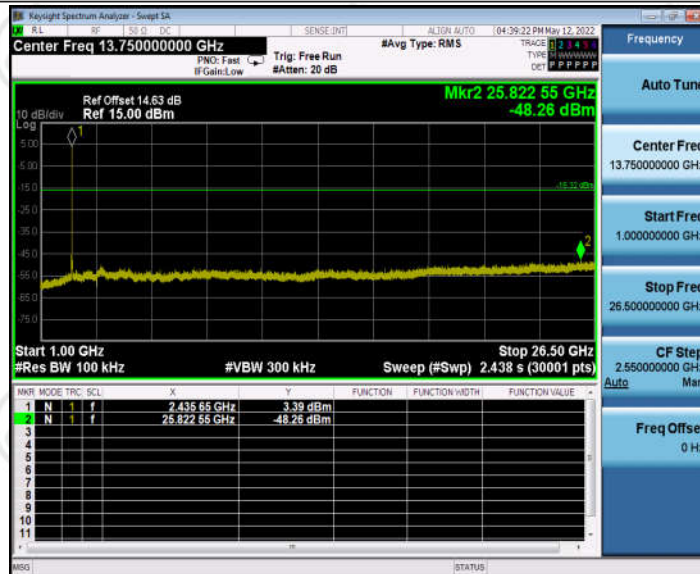
Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	3.96	-55.82	≤-16.04	PASS
			1000~2650 0	3.96	-48.52	≤-16.04	PASS
		2437	30~1000	3.68	-56.17	≤-16.32	PASS
			1000~2650 0	3.68	-48.26	≤-16.32	PASS
		2462	30~1000	3.72	-55.64	≤-16.28	PASS
			1000~2650 0	3.72	-47.51	≤-16.28	PASS
11G	Ant1	2412	30~1000	-1.95	-54.56	≤-21.95	PASS
			1000~2650 0	-1.95	-48.2	≤-21.95	PASS
		2437	30~1000	-1.97	-55.89	≤-21.97	PASS
			1000~2650 0	-1.97	-47.86	≤-21.97	PASS
		2462	30~1000	-2.09	-55.99	≤-22.09	PASS
			1000~2650 0	-2.09	-46.51	≤-22.09	PASS
11N20SI SO	Ant1	2412	30~1000	-2.00	-55.85	≤-22	PASS
			1000~2650 0	-2.00	-48.42	≤-22	PASS
		2437	30~1000	-2.28	-55.64	≤-22.28	PASS
			1000~2650 0	-2.28	-46.9	≤-22.28	PASS
		2462	30~1000	-2.06	-55.25	≤-22.06	PASS
			1000~2650 0	-2.06	-47.69	≤-22.06	PASS
11N40SI SO	Ant1	2422	30~1000	-4.55	-55.37	≤-24.55	PASS
			1000~2650 0	-4.55	-47.6	≤-24.55	PASS
		2437	30~1000	-4.78	-54.52	≤-24.78	PASS
			1000~2650 0	-4.78	-48.34	≤-24.78	PASS
		2452	30~1000	-4.79	-55.49	≤-24.79	PASS
			1000~2650 0	-4.79	-47.91	≤-24.79	PASS

## Test Graphs



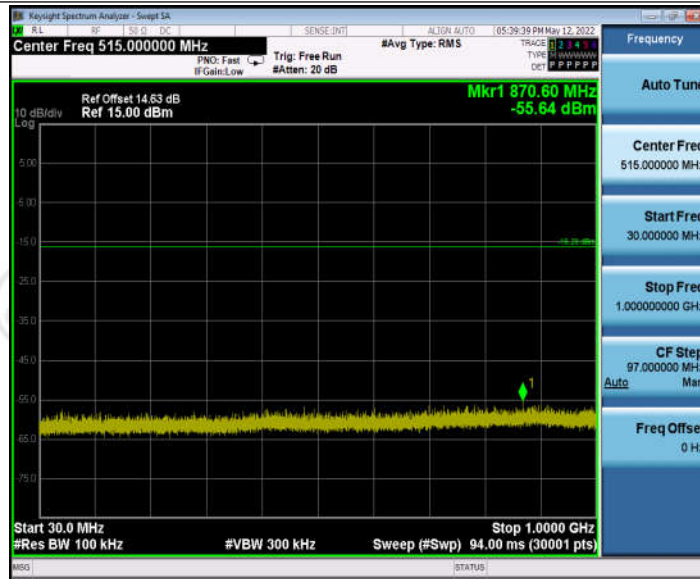


11B\_Ant1\_2437\_1000~26500

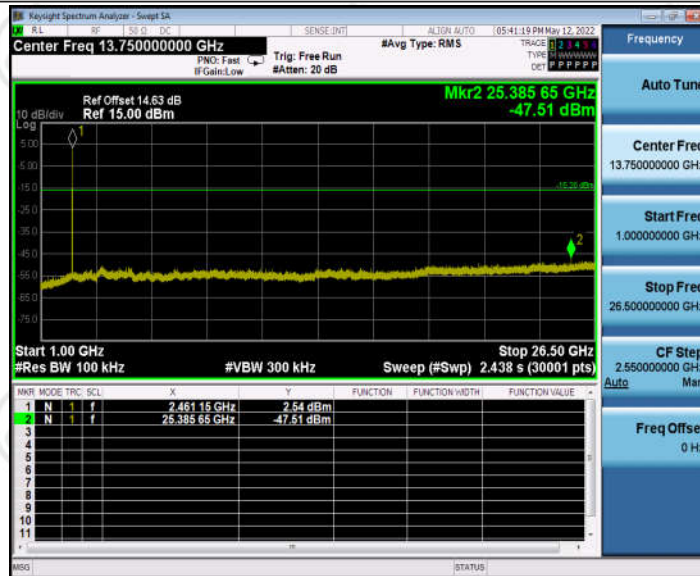


11B\_Ant1\_2462\_30~1000

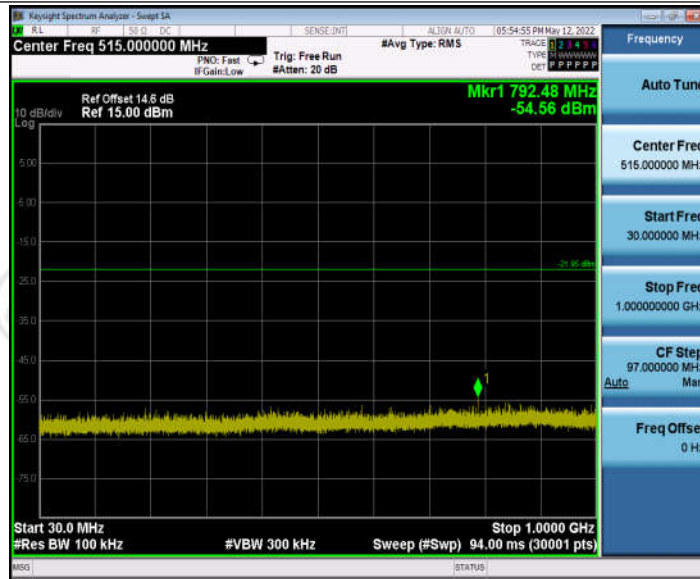




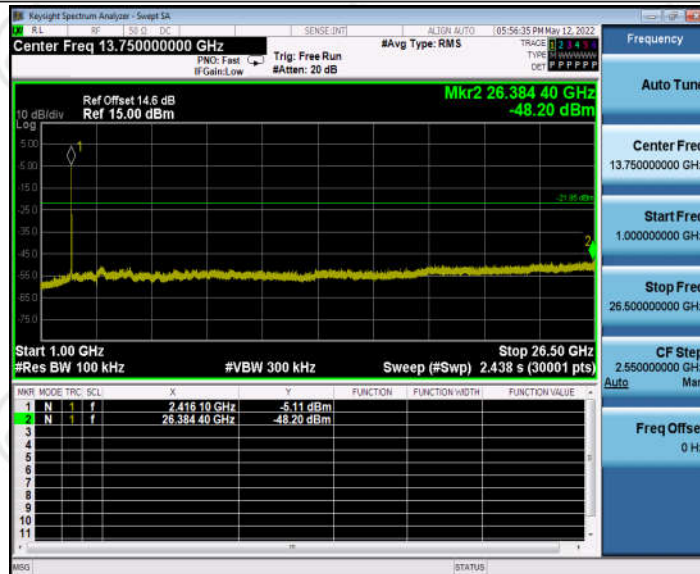
11B\_Ant1\_2462\_1000~26500



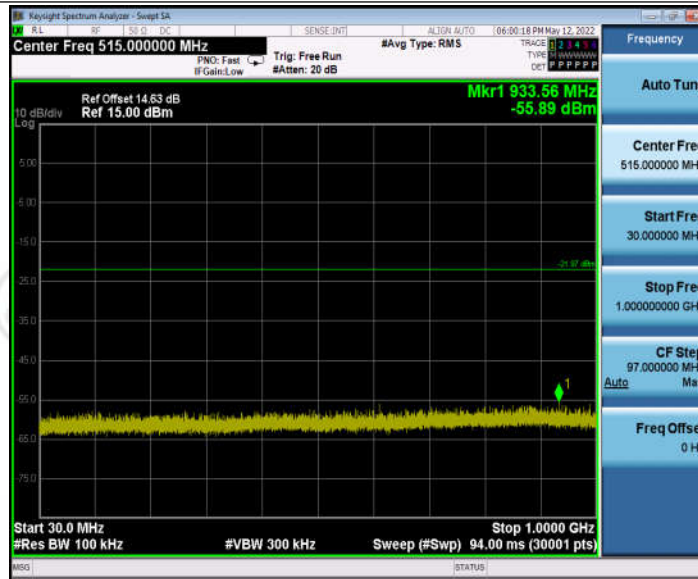
11G\_Ant1\_2412\_30~1000



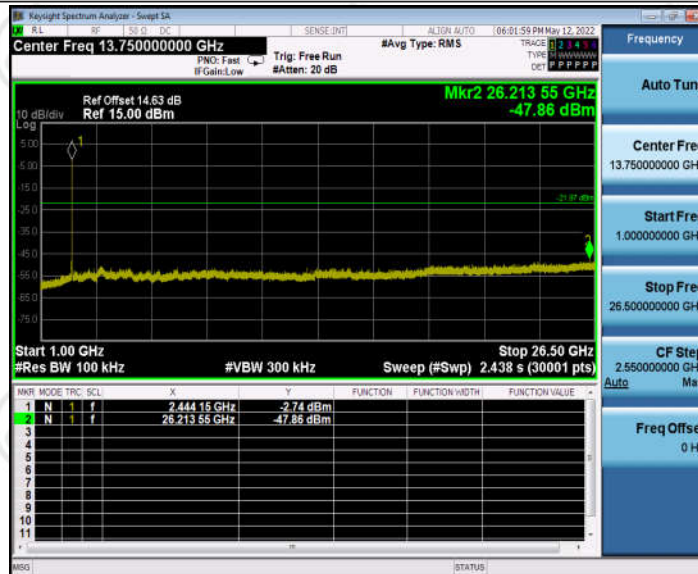
11G\_Ant1\_2412\_1000~26500



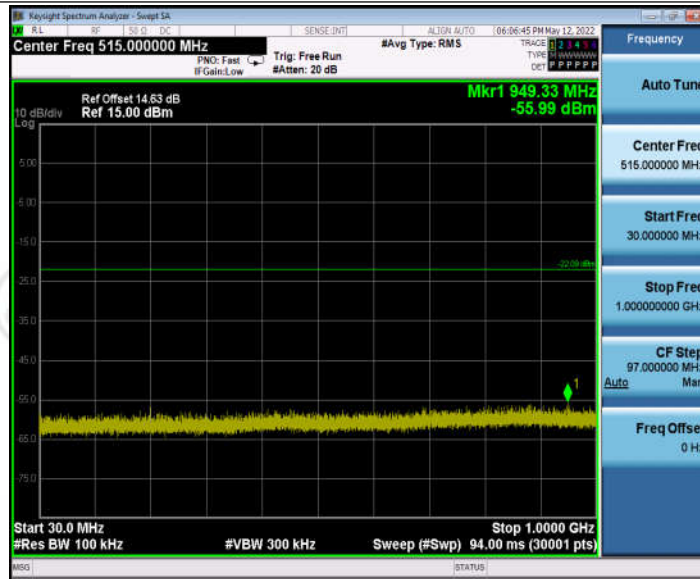
11G\_Ant1\_2437\_30~1000



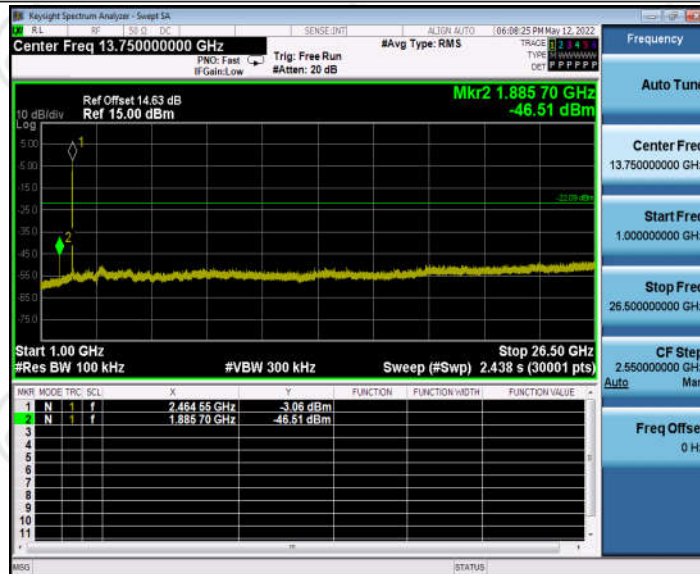
11G\_Ant1\_2437\_1000~26500



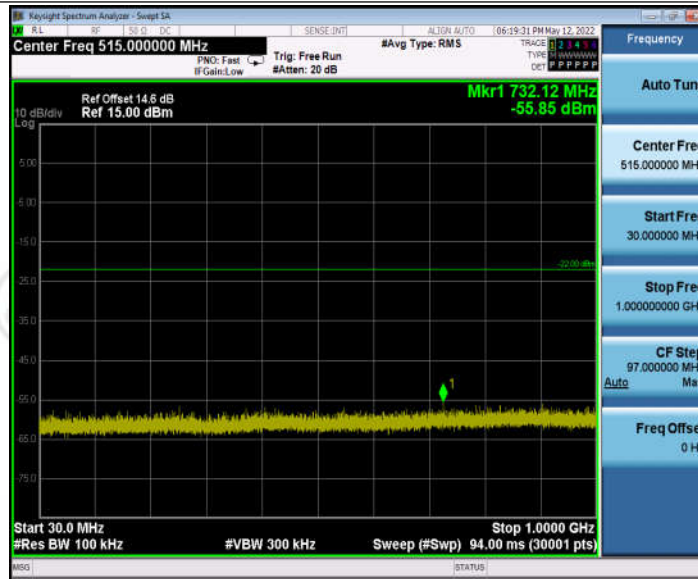
11G\_Ant1\_2462\_30~1000



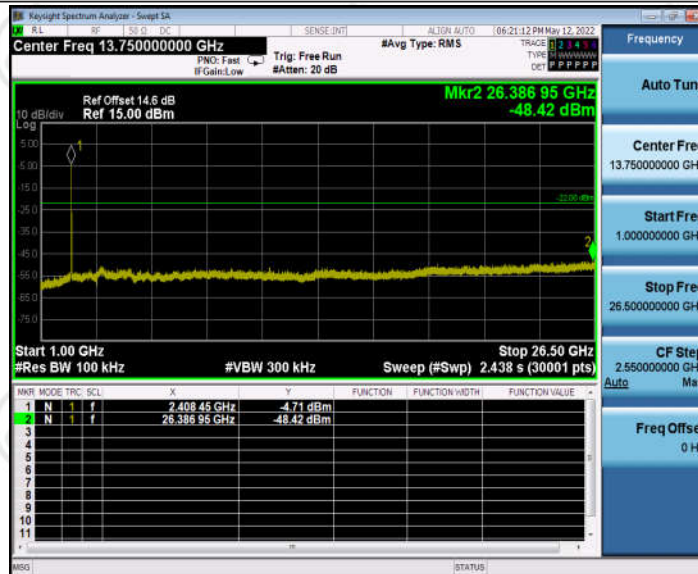
11G\_Ant1\_2462\_1000~26500



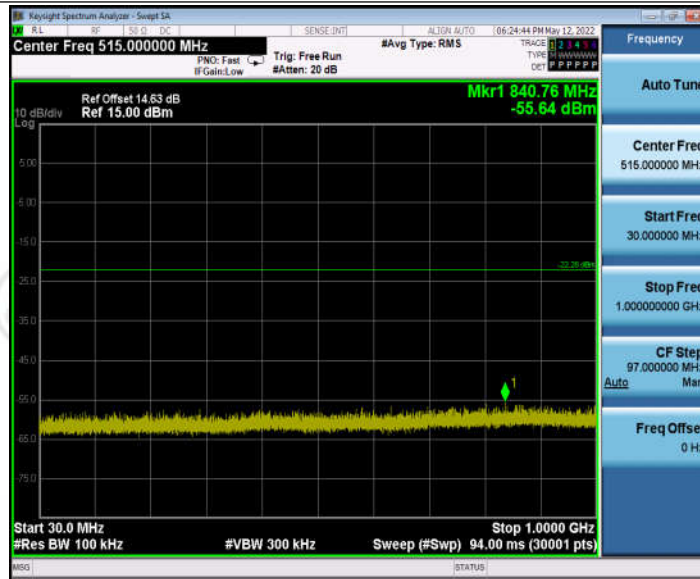
11N20SISO\_Ant1\_2412\_30~1000



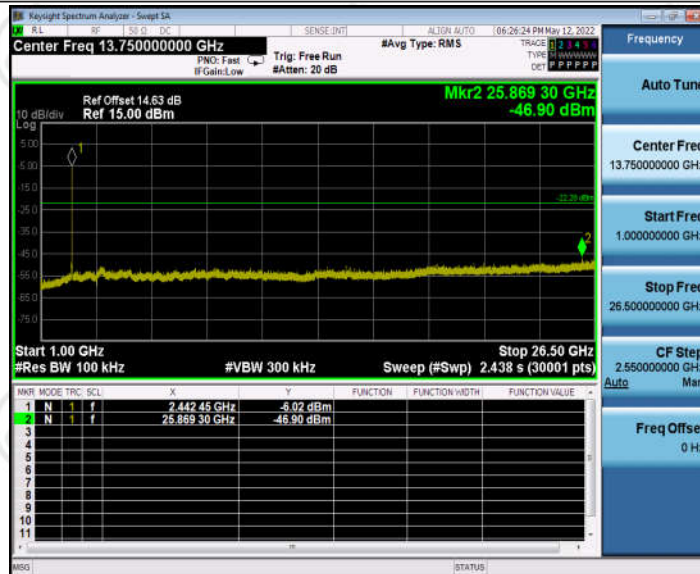
11N20SISO\_Ant1\_2412\_1000~26500



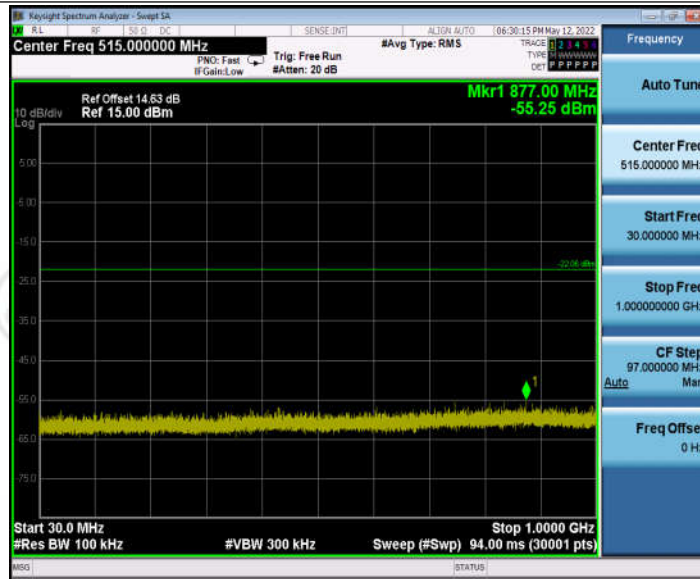
11N20SISO\_Ant1\_2437\_30~1000



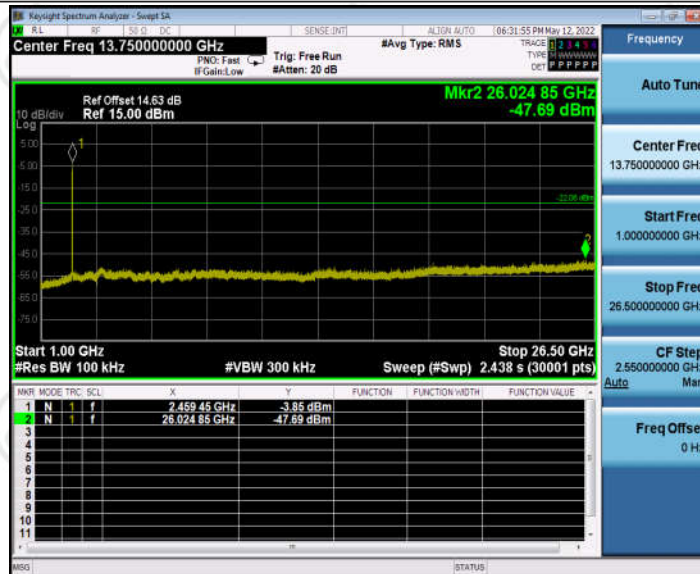
11N20SISO\_Ant1\_2437\_1000~26500



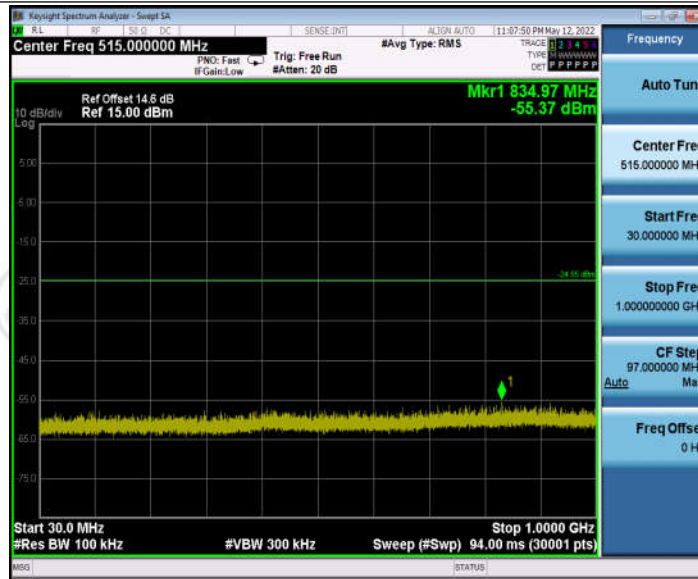
11N20SISO\_Ant1\_2462\_30~1000



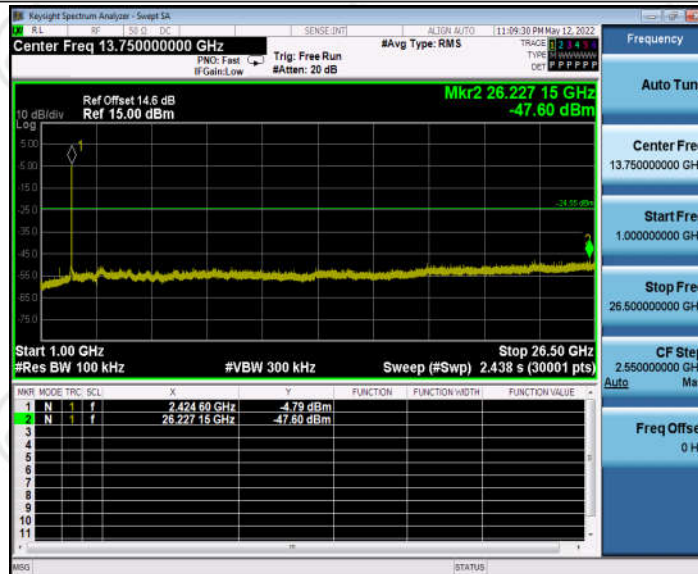
11N20SISO\_Ant1\_2462\_1000~26500



11N40SISO\_Ant1\_2422\_30~1000

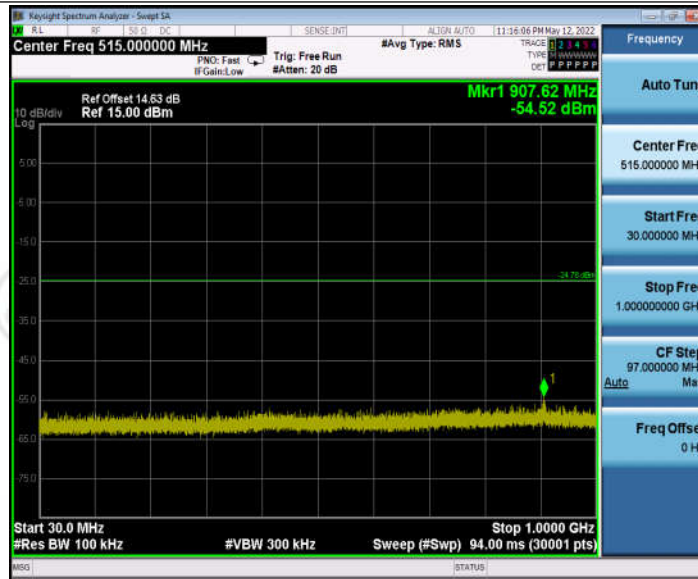


11N40SISO\_Ant1\_2422\_1000~26500

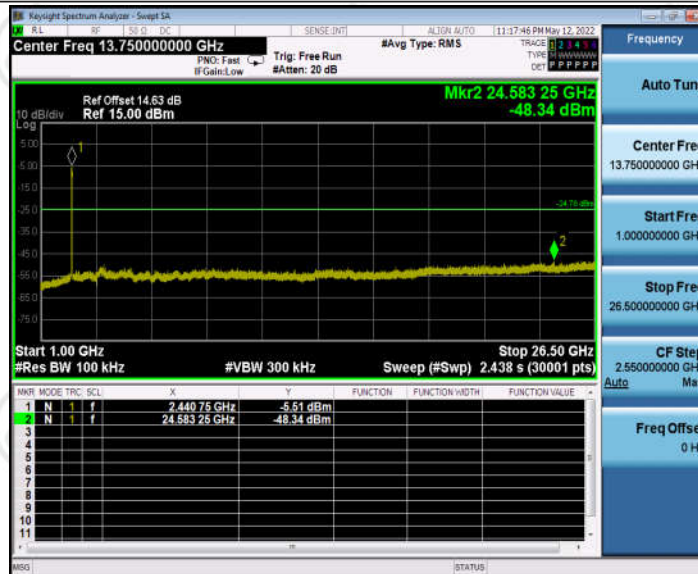


11N40SISO\_Ant1\_2437\_30~1000

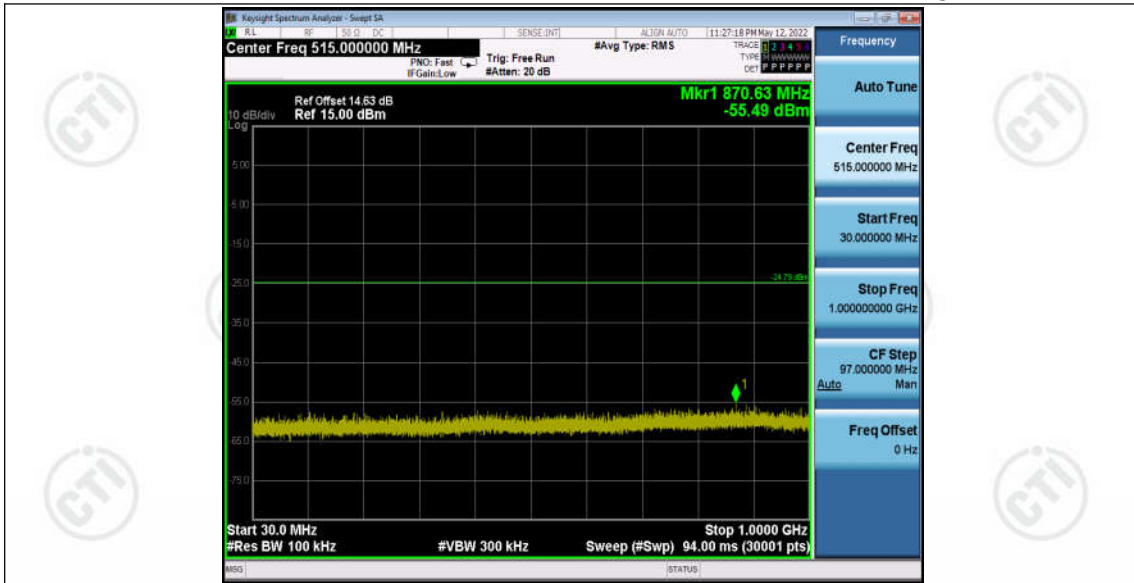




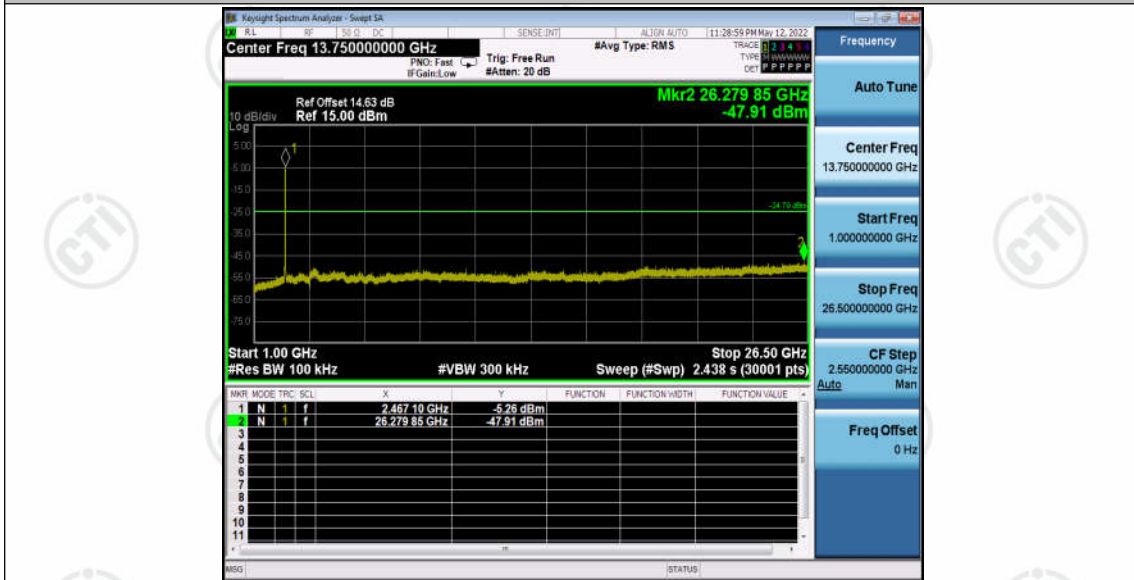
11N40SISO\_Ant1\_2437\_1000~26500



11N40SISO\_Ant1\_2452\_30~1000



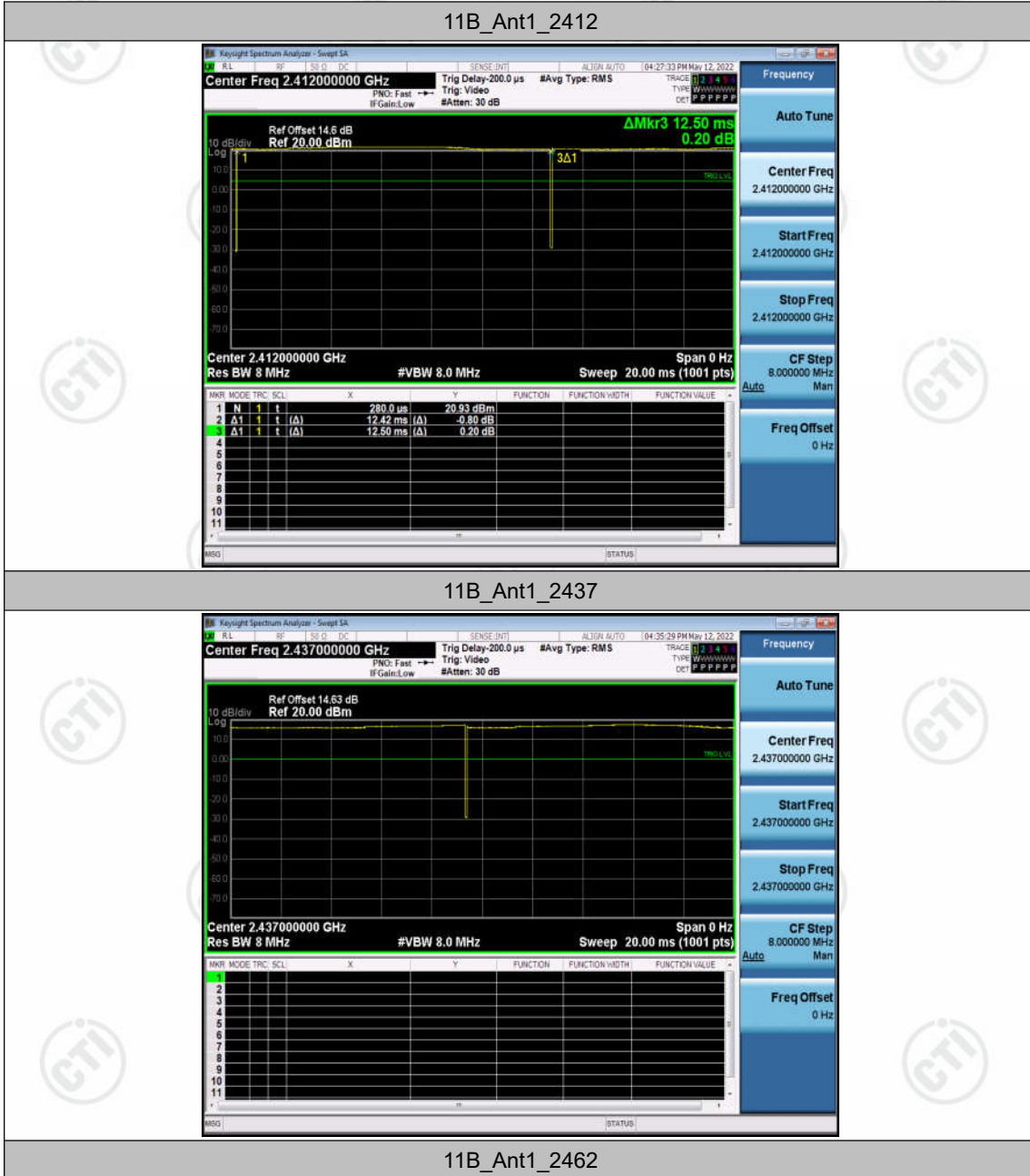
11N40SISO\_Ant1\_2452\_1000~26500

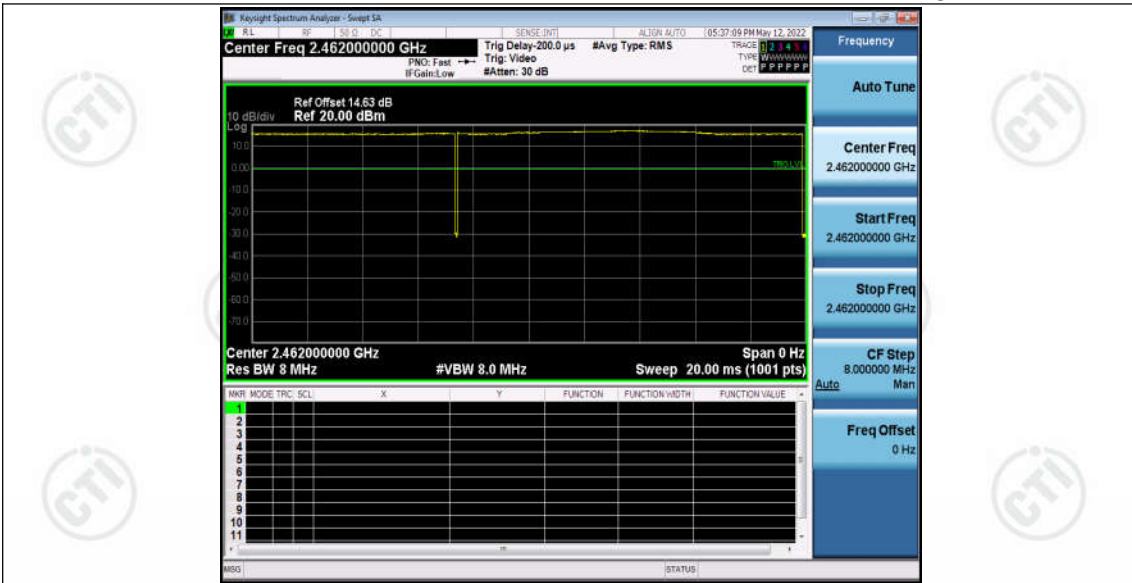


**Appendix G: Duty Cycle****Test Result**

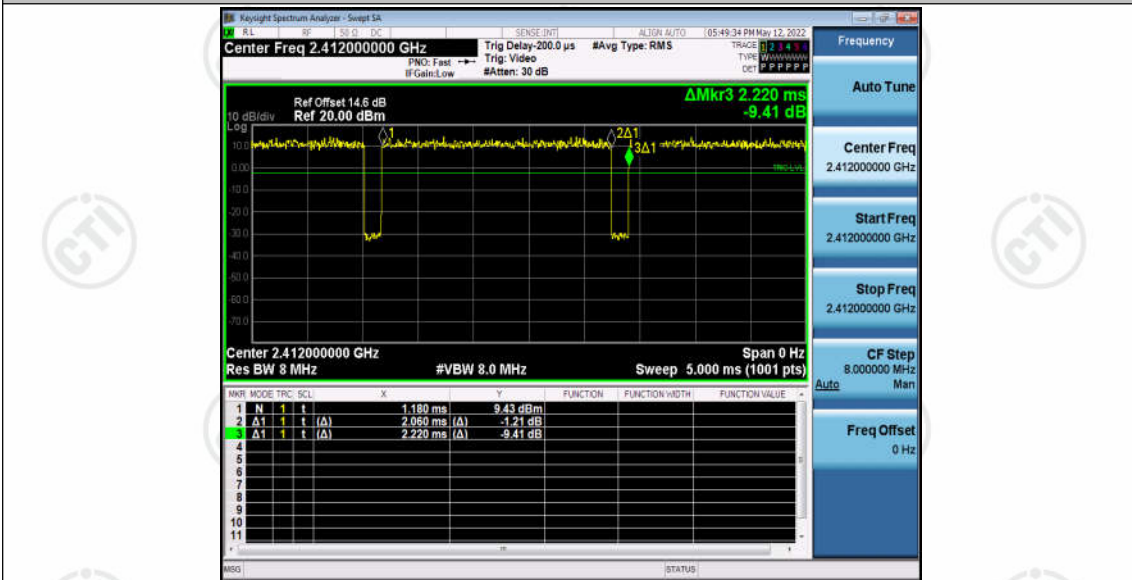
Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	12.42	12.50	99.36
		2437	20.00	20.00	100.00
		2462	20.00	20.00	100.00
11G	Ant1	2412	2.06	2.22	92.79
		2437	2.06	2.19	94.06
		2462	2.07	2.17	95.39
11N20SIS O	Ant1	2412	1.92	2.09	91.87
		2437	1.92	2.03	94.58
		2462	1.92	2.09	91.87
11N40SIS O	Ant1	2422	0.94	1.10	85.45
		2437	0.94	1.08	87.04
		2452	0.94	1.10	85.45

## Test Graphs

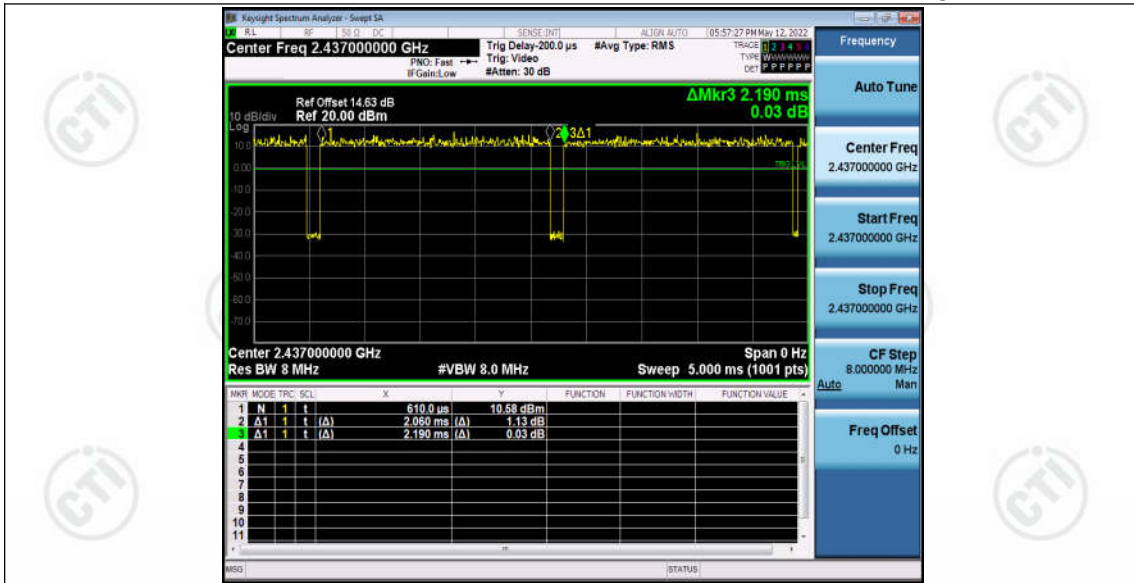




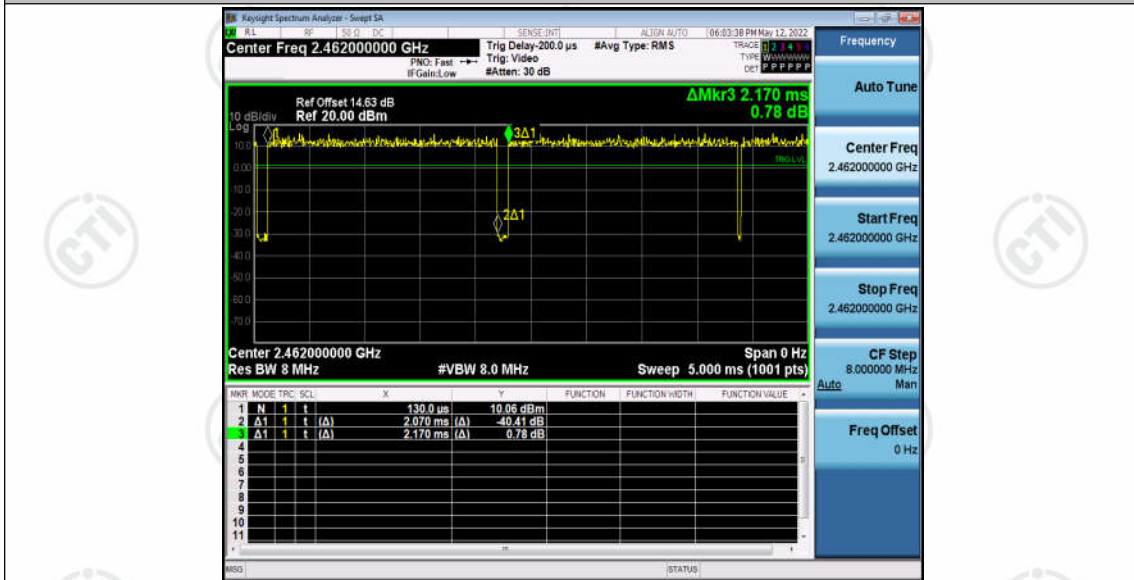
11G\_Ant1\_2412



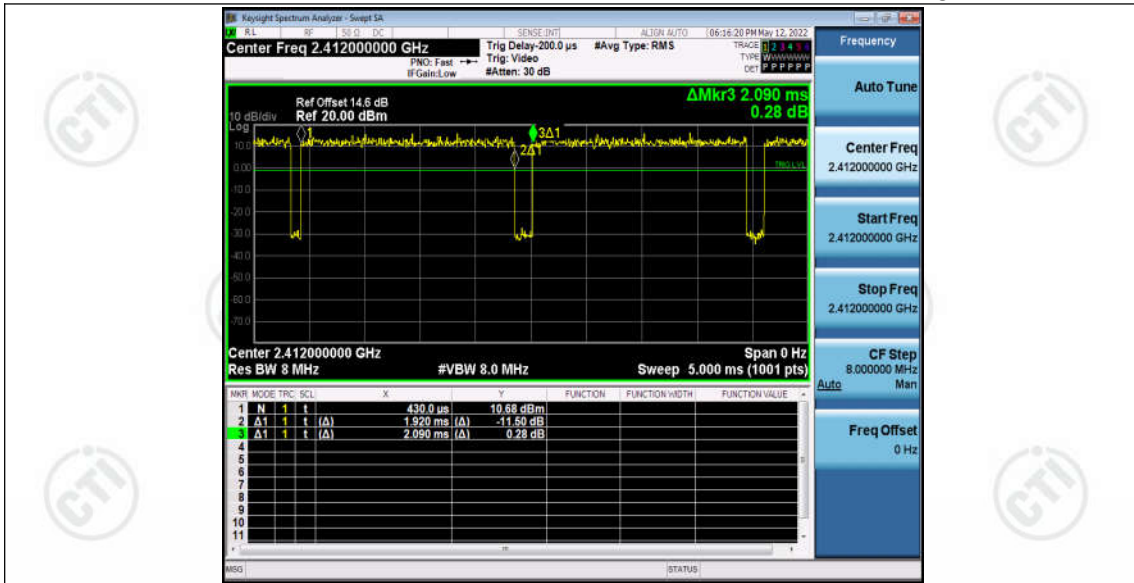
11G\_Ant1\_2437



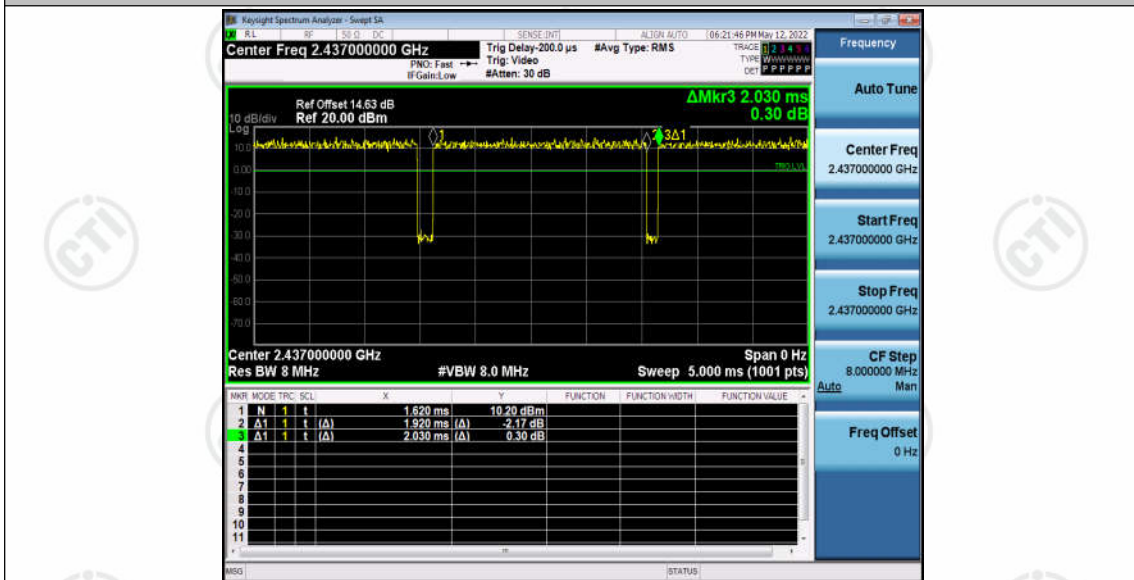
11G\_Ant1\_2462



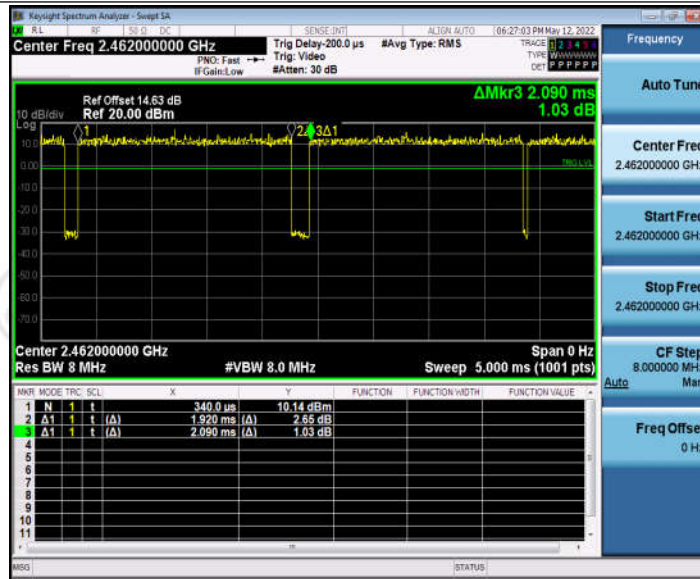
11N20SISO\_Ant1\_2412



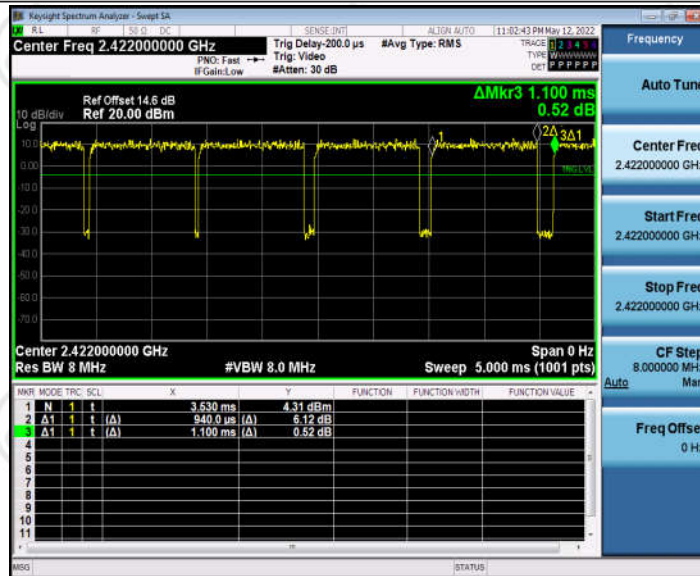
11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462

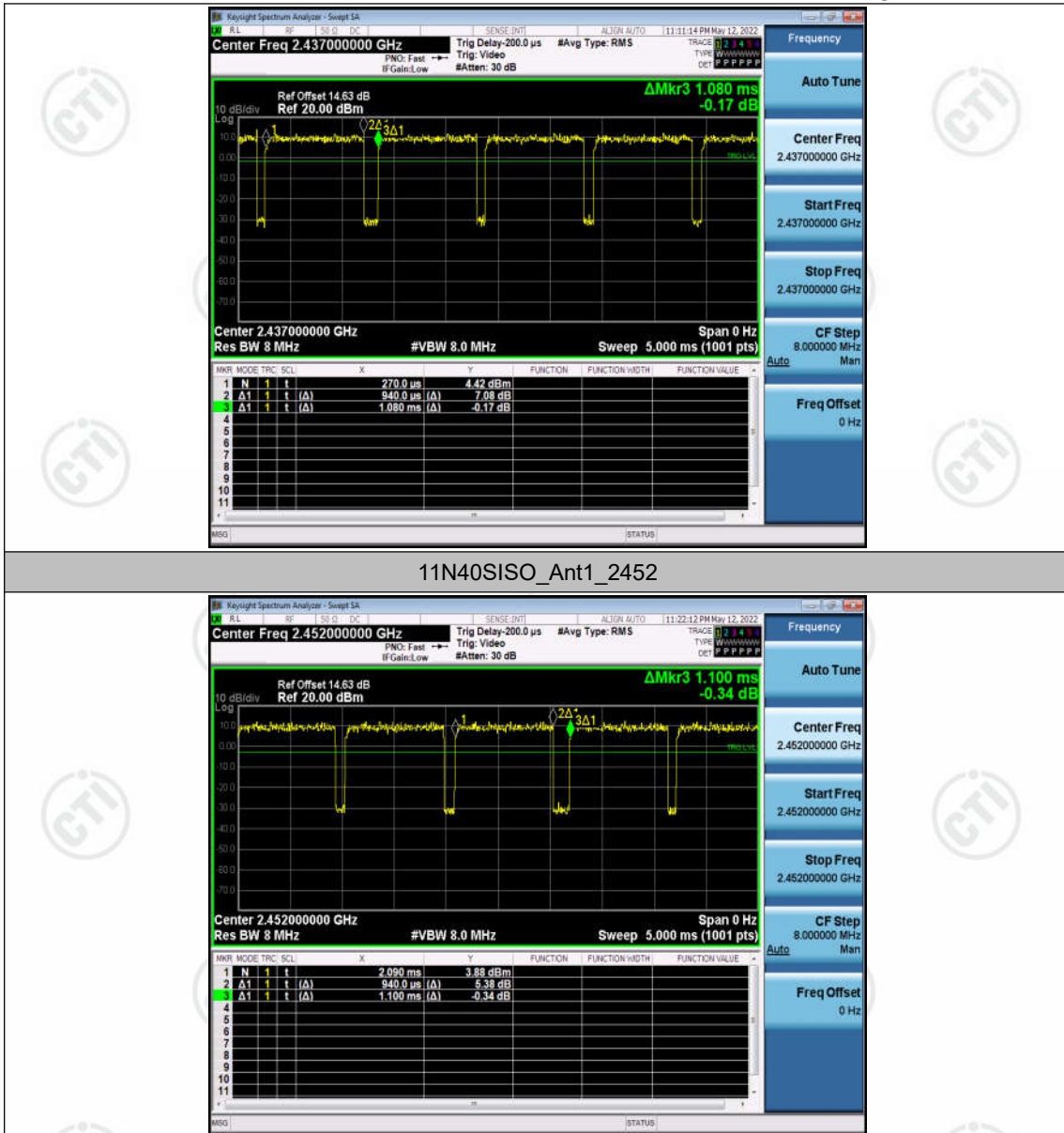


11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437





\*\*\* End of Report \*\*\*