

Appendix: 2.4G WIFI

Contents

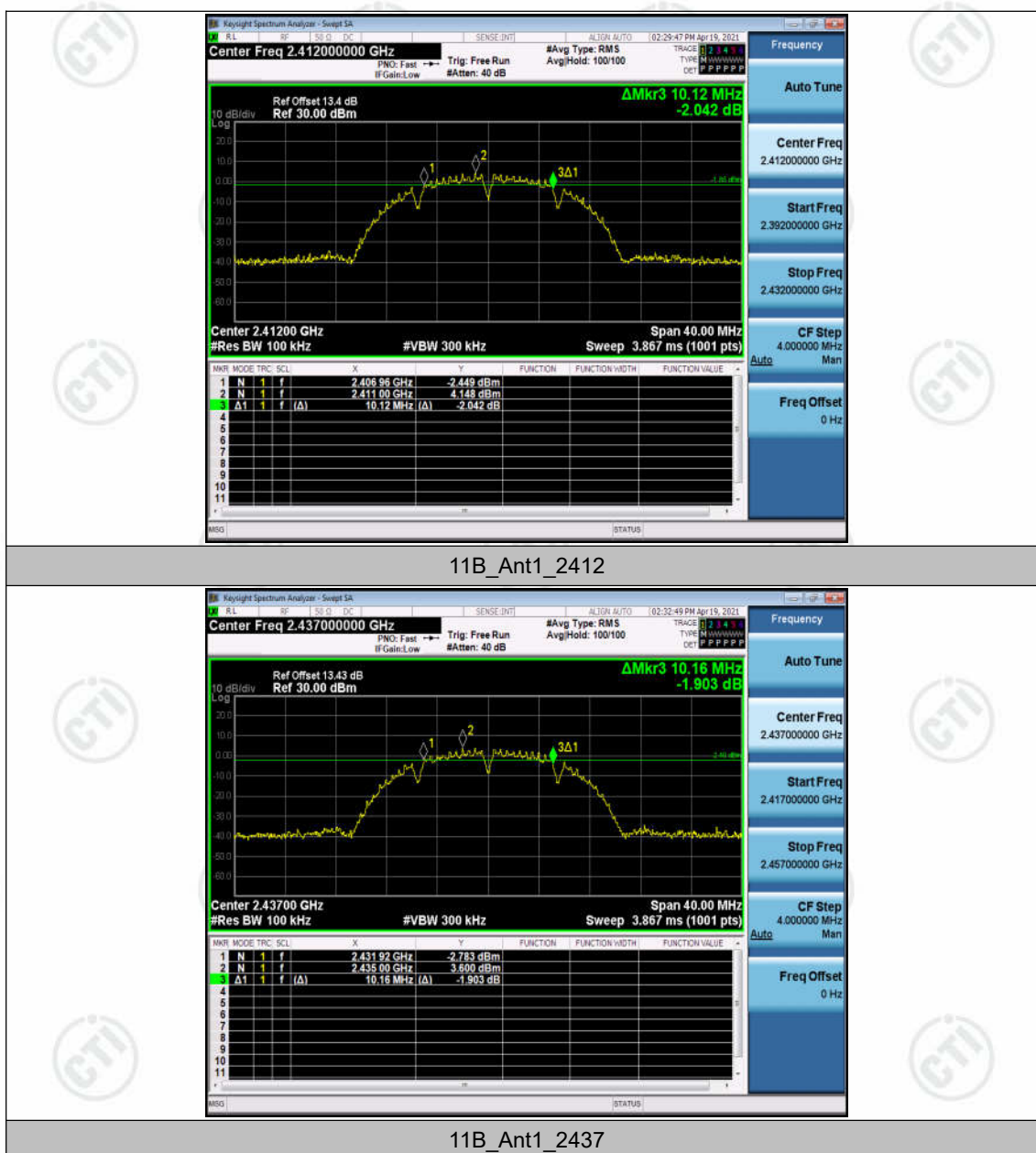
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Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.120	2406.960	2417.080	0.5	PASS
		2437	10.160	2431.920	2442.080	0.5	PASS
		2462	10.200	2456.880	2467.080	0.5	PASS
11G	Ant1	2412	16.400	2403.800	2420.200	0.5	PASS
		2437	16.440	2428.760	2445.200	0.5	PASS
		2462	16.400	2453.800	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.640	2403.160	2420.800	0.5	PASS
		2437	17.400	2428.160	2445.560	0.5	PASS
		2462	17.360	2453.200	2470.560	0.5	PASS
11N40SISO	Ant1	2422	36.160	2403.760	2439.920	0.5	PASS
		2437	35.840	2419.000	2454.840	0.5	PASS
		2452	35.840	2434.000	2469.840	0.5	PASS

Test Graphs

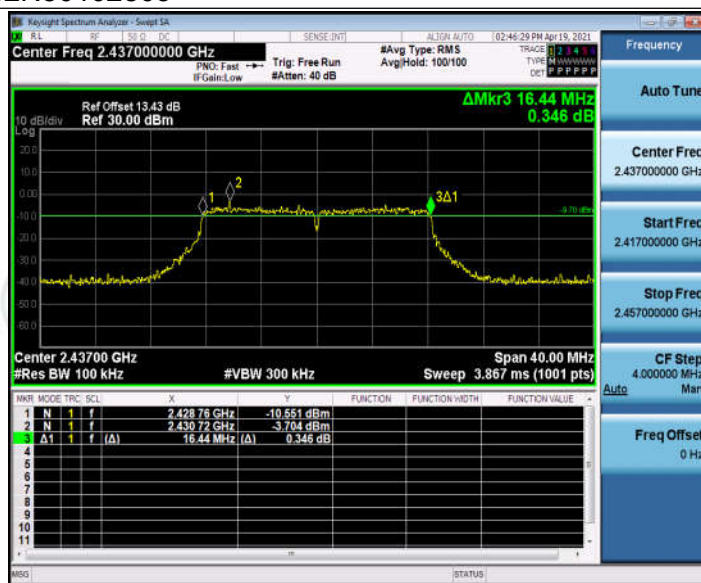




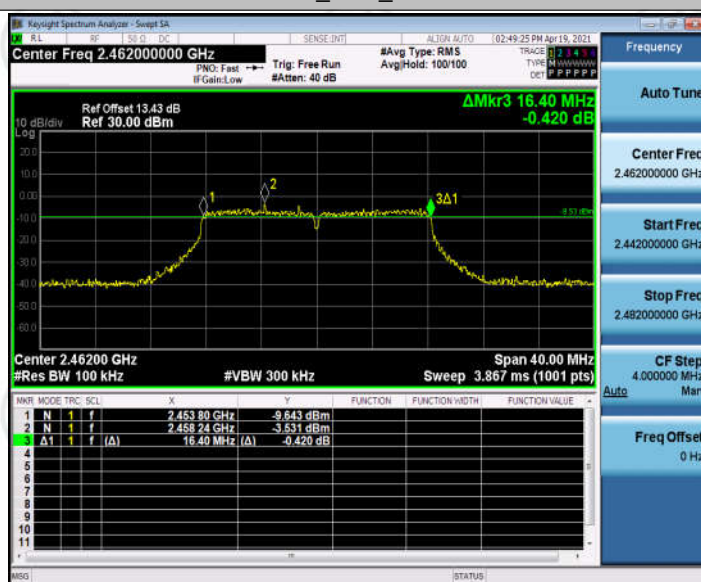
11B_Ant1_2462



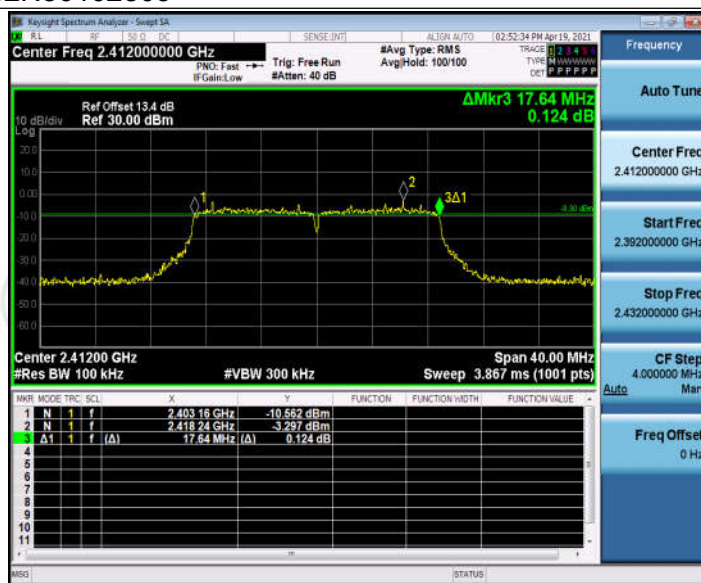
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



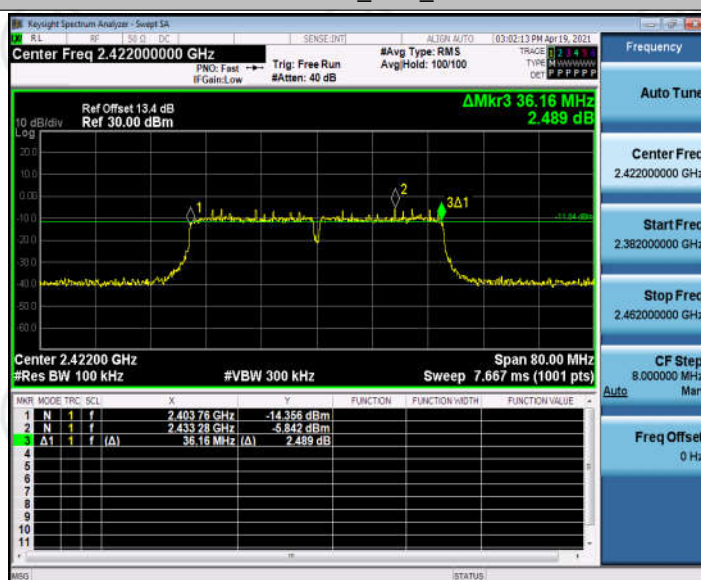
11N20SISO_Ant1_2412



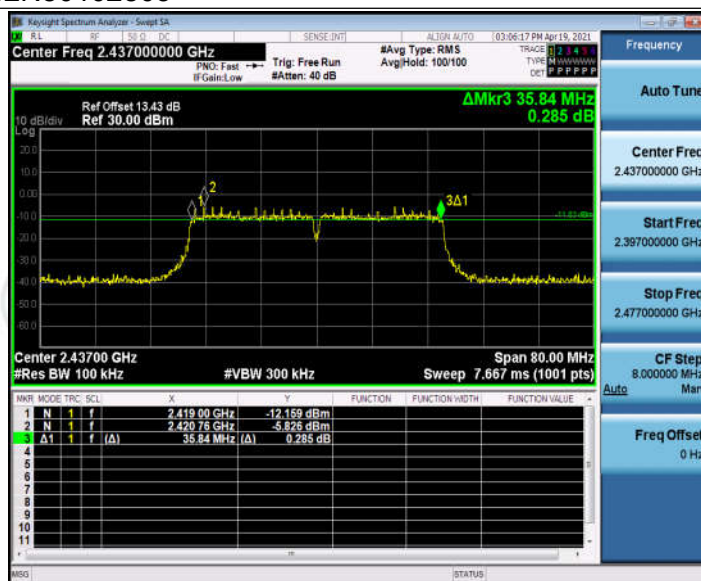
11N20SISO_Ant1_2437



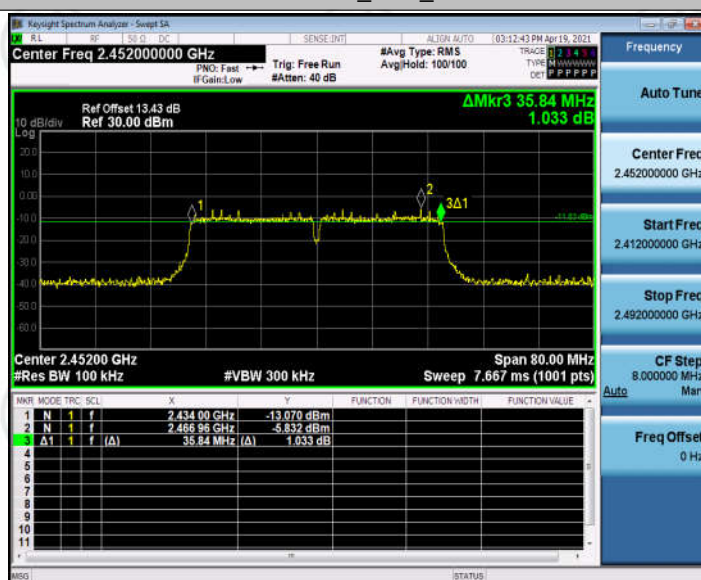
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



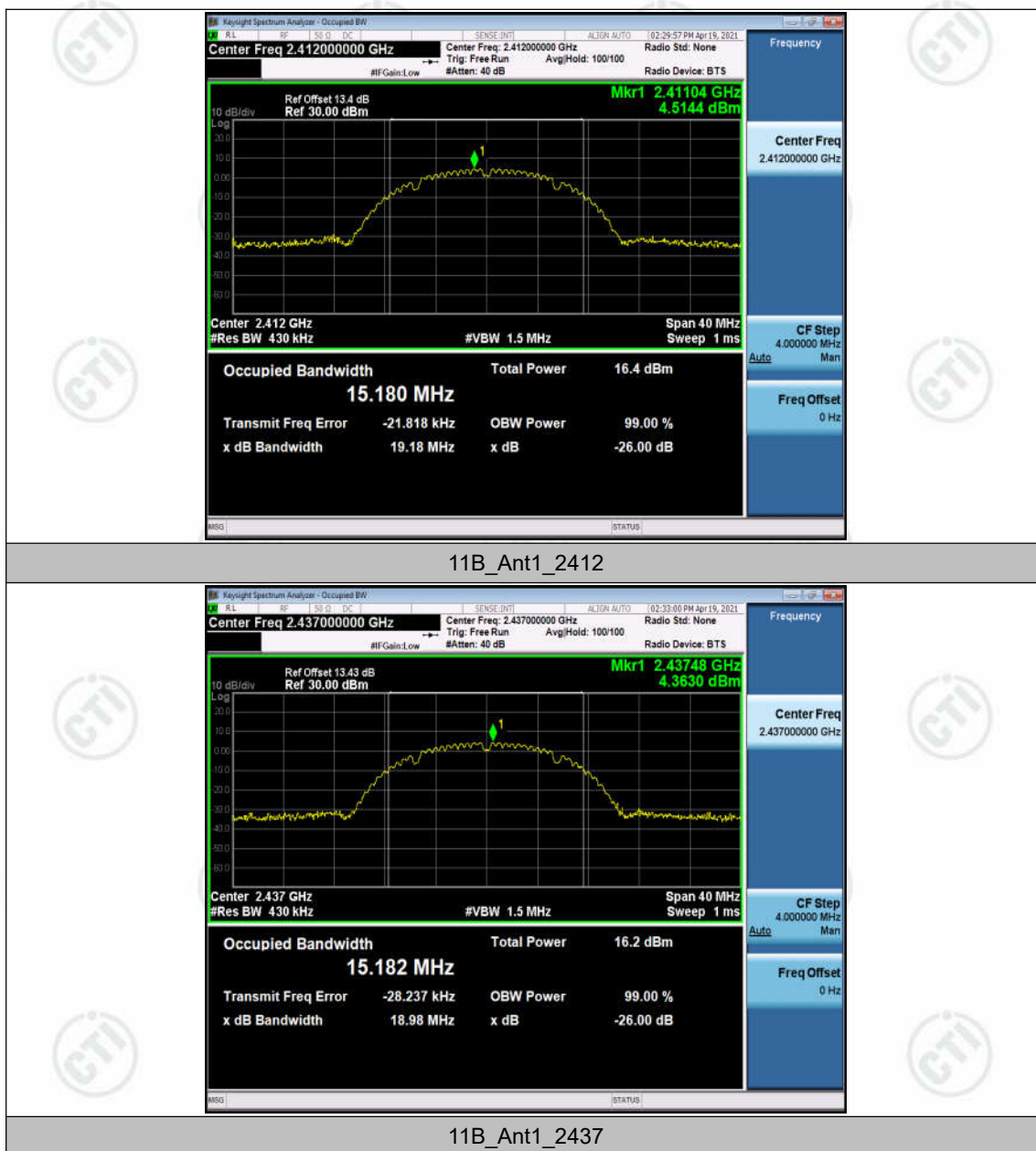
11N40SISO_Ant1_2452

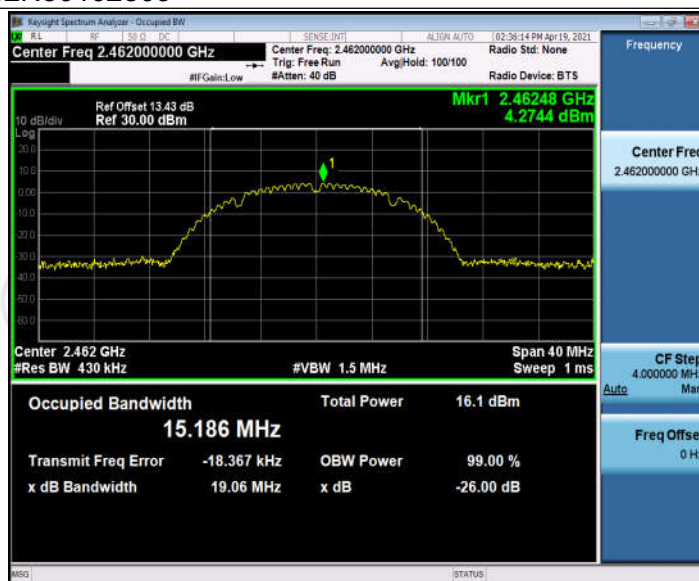
Appendix B: Occupied Channel Bandwidth

Test Result

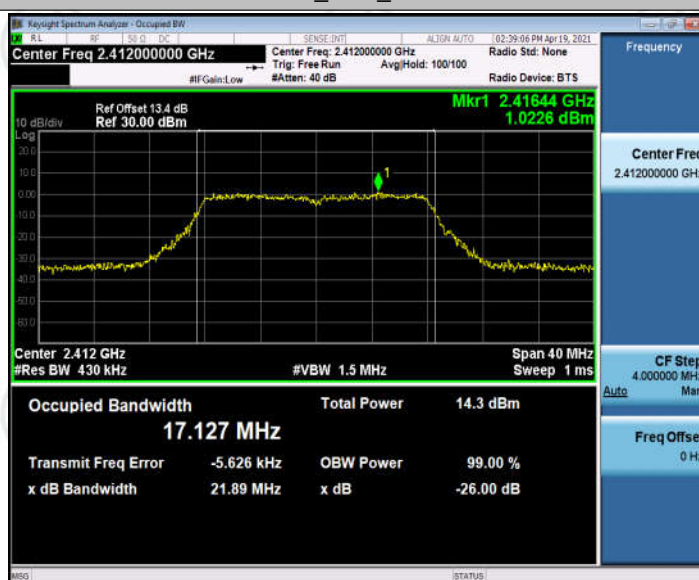
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.180	2404.388	2419.568	---	PASS
		2437	15.182	2429.381	2444.563	---	PASS
		2462	15.186	2454.389	2469.575	---	PASS
11G	Ant1	2412	17.127	2403.431	2420.558	---	PASS
		2437	17.141	2428.412	2445.553	---	PASS
		2462	17.137	2453.423	2470.560	---	PASS
11N20SISO	Ant1	2412	18.124	2402.948	2421.072	---	PASS
		2437	18.087	2427.938	2446.025	---	PASS
		2462	18.078	2452.931	2471.009	---	PASS
11N40SISO	Ant1	2422	36.506	2403.706	2440.212	---	PASS
		2437	36.733	2418.595	2455.328	---	PASS
		2452	36.550	2433.779	2470.329	---	PASS

Test Graphs

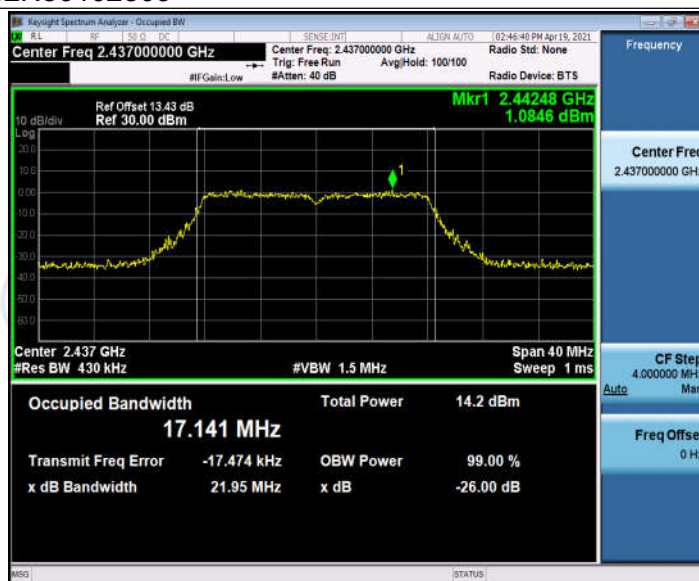




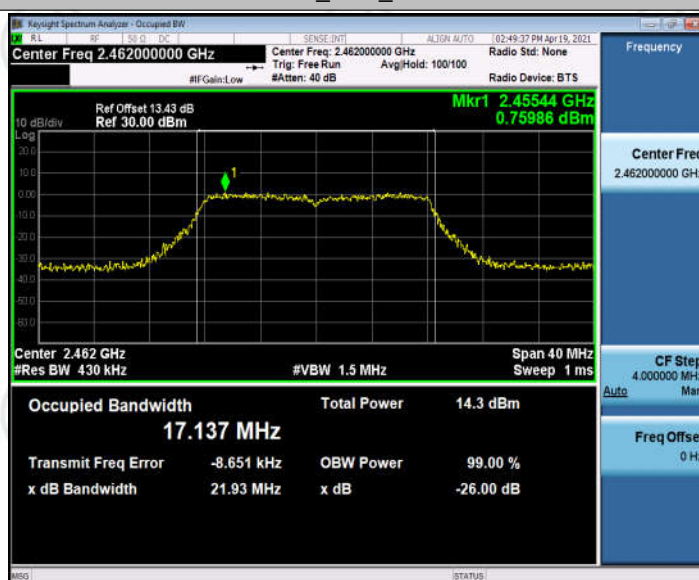
11B_Ant1_2462



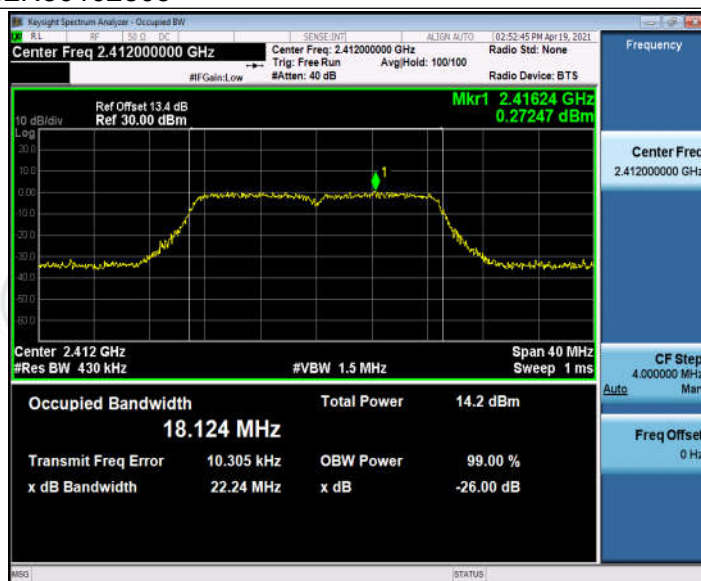
11G_Ant1_2412



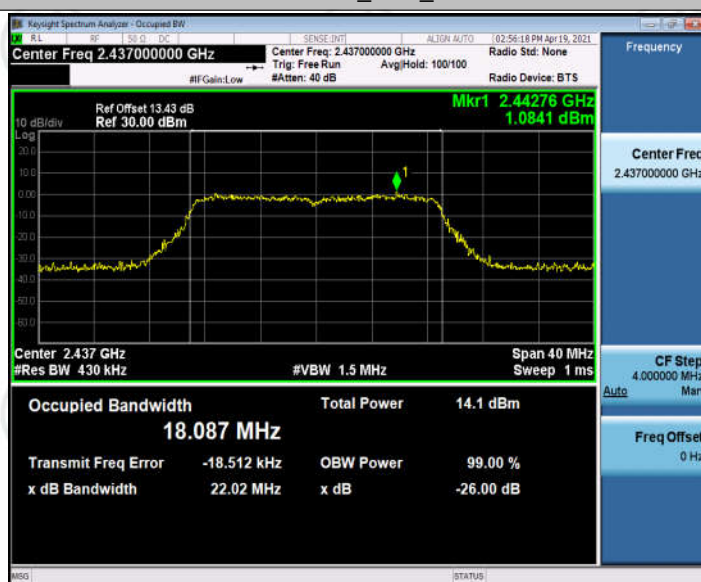
11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



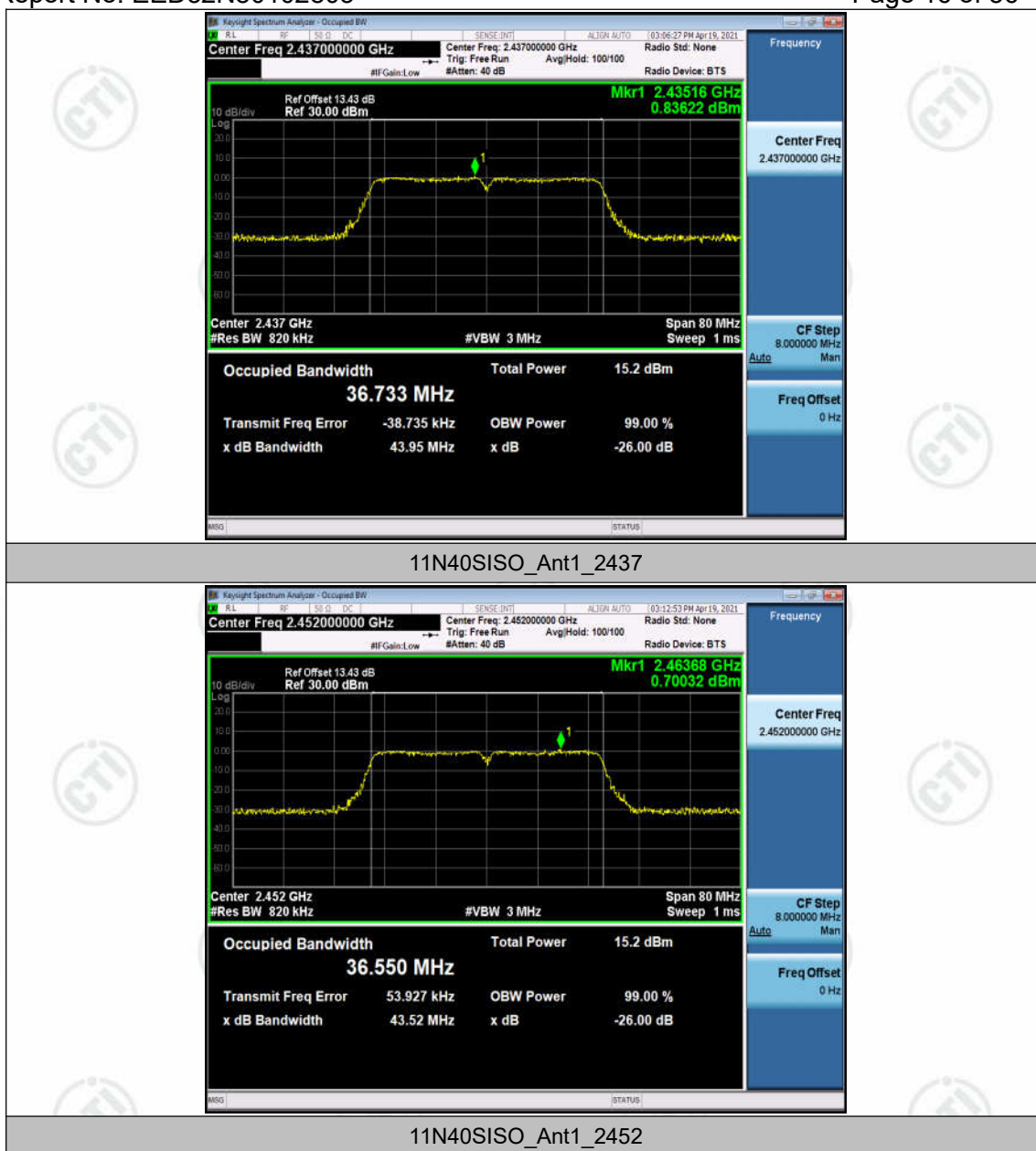
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



Appendix C: Maximum conducted output power

Test Result

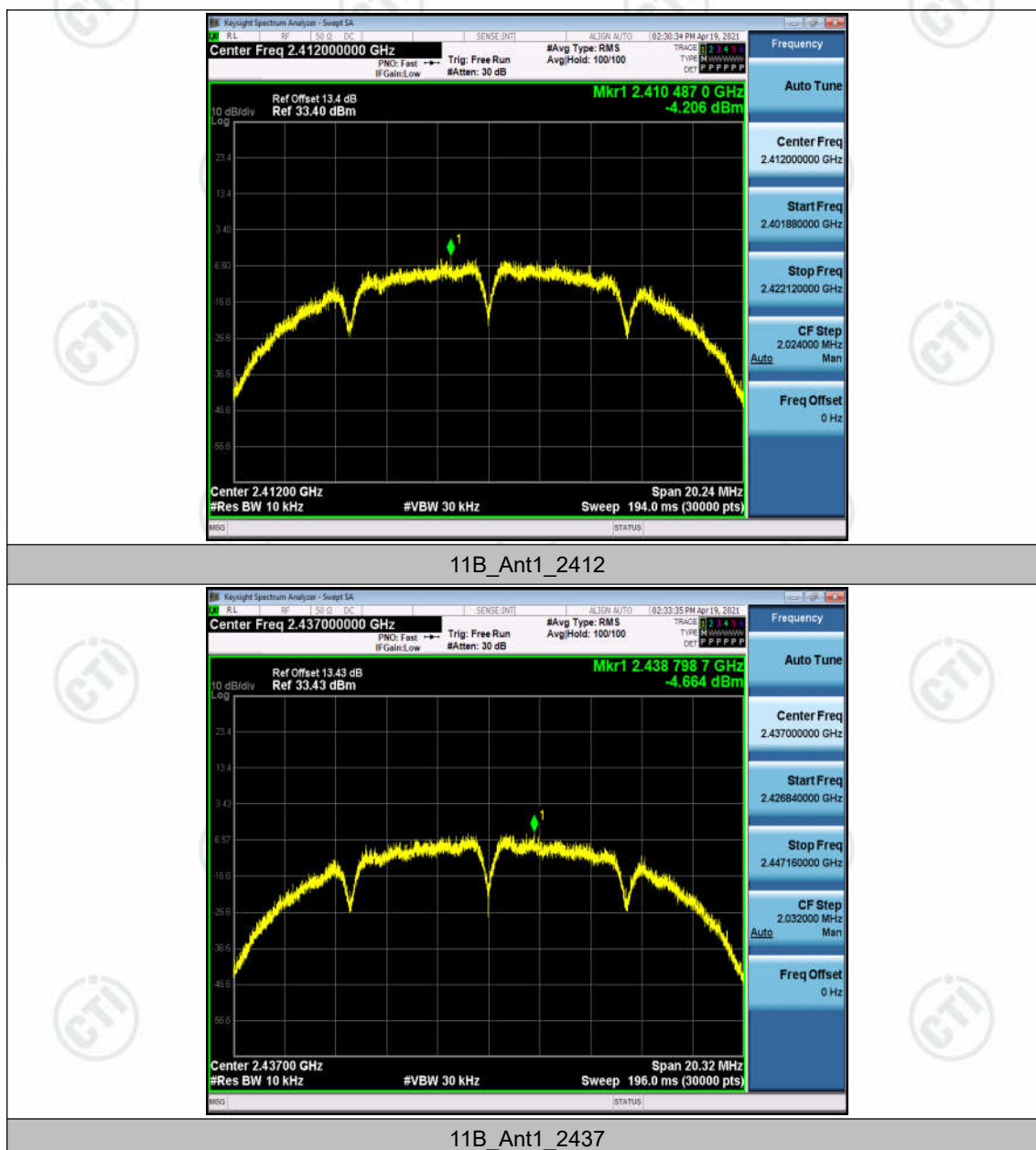
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	15.96	<=30	PASS
		2437	15.78	<=30	PASS
		2462	15.70	<=30	PASS
11G	Ant1	2412	15.24	<=30	PASS
		2437	15.33	<=30	PASS
		2462	15.17	<=30	PASS
11N20SISO	Ant1	2412	15.33	<=30	PASS
		2437	15.21	<=30	PASS
		2462	15.08	<=30	PASS
11N40SISO	Ant1	2422	15.58	<=30	PASS
		2437	15.46	<=30	PASS
		2452	15.33	<=30	PASS

Appendix D: Maximum power spectral density

Test Result

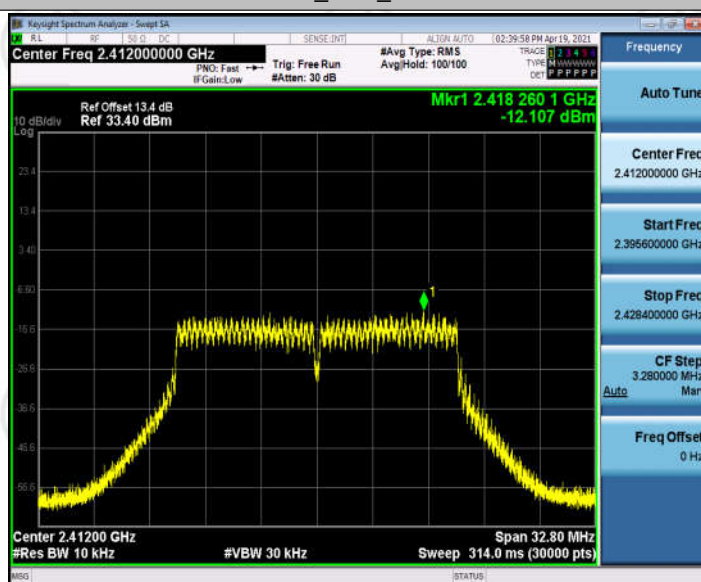
Test Mode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-4.21	<=8	PASS
		2437	-4.66	<=8	PASS
		2462	-2.2	<=8	PASS
11G	Ant1	2412	-12.11	<=8	PASS
		2437	-10.85	<=8	PASS
		2462	-11.11	<=8	PASS
11N20SISO	Ant1	2412	-11.06	<=8	PASS
		2437	-11.36	<=8	PASS
		2462	-12.32	<=8	PASS
11N40SISO	Ant1	2422	-14.56	<=8	PASS
		2437	-15.45	<=8	PASS
		2452	-14.38	<=8	PASS

Test Graphs

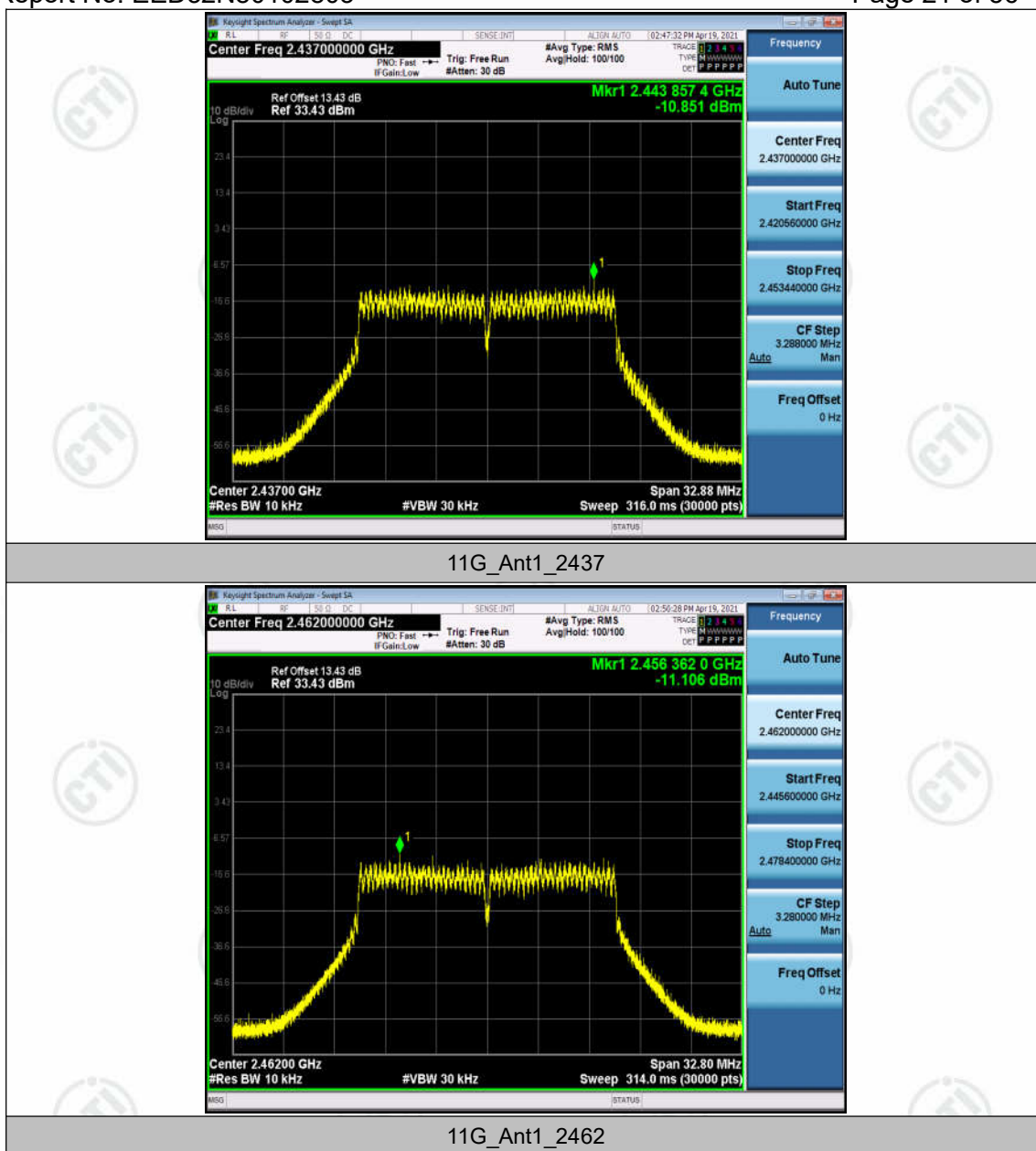


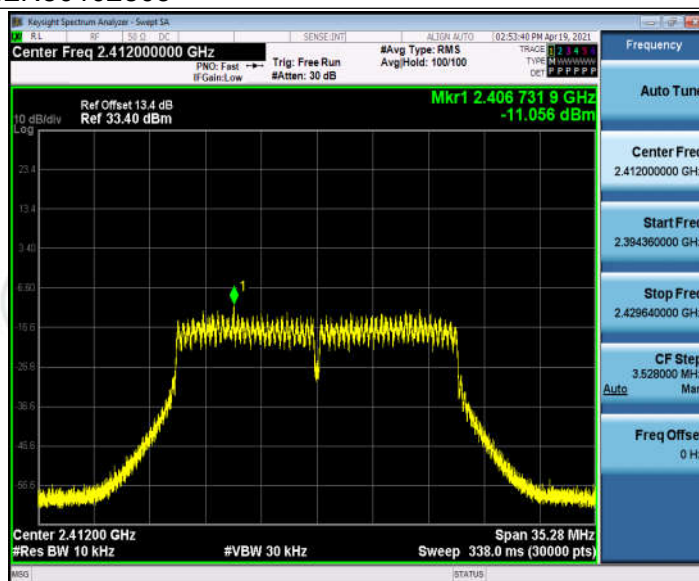


11B_Ant1_2462

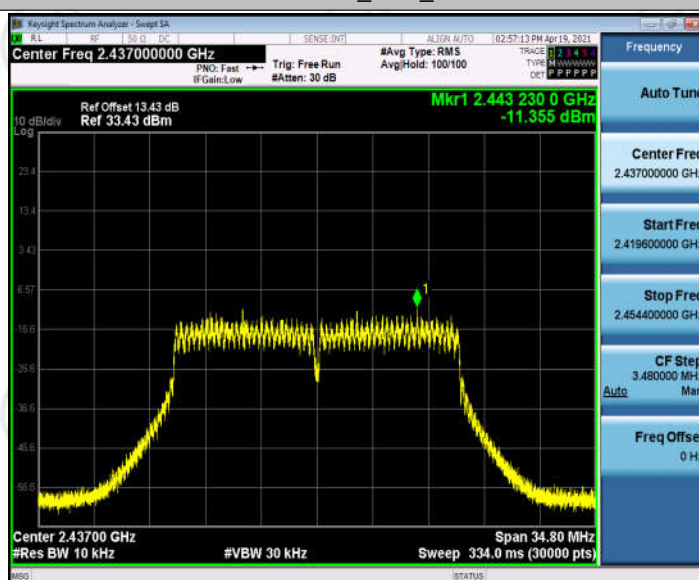


11G_Ant1_2412

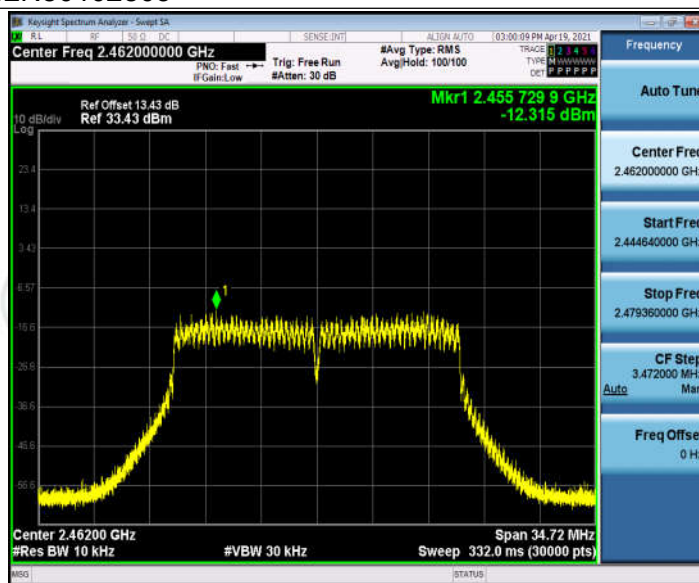




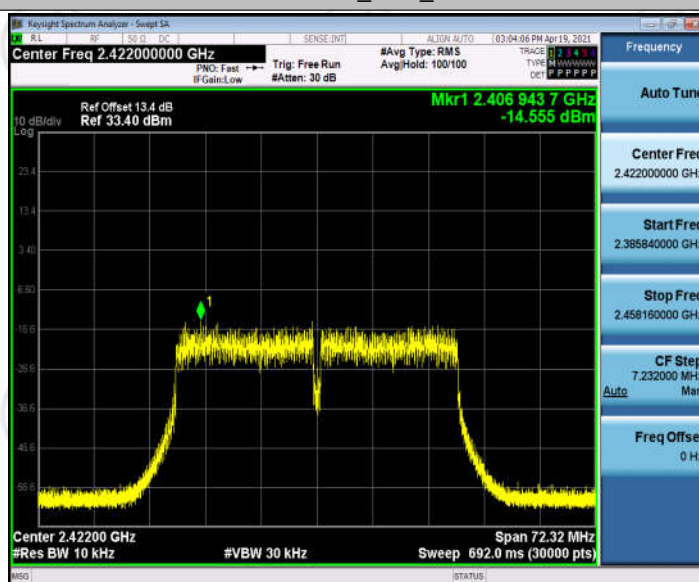
11N20SISO_Ant1_2412



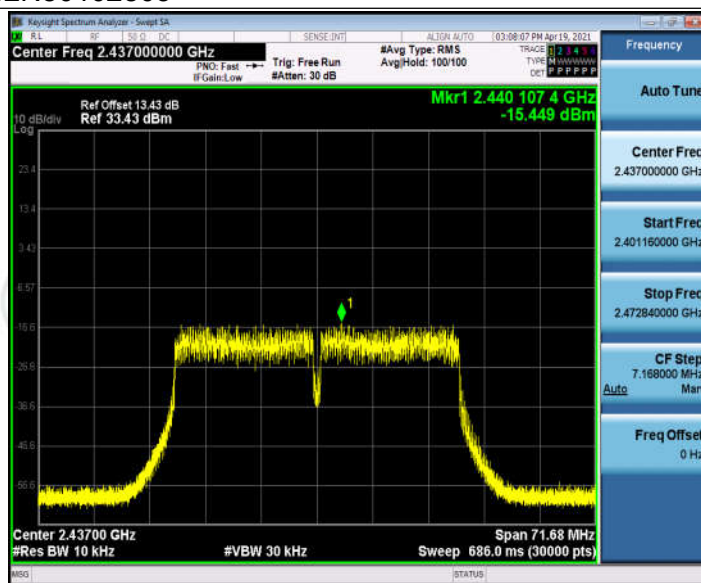
11N20SISO_Ant1_2437



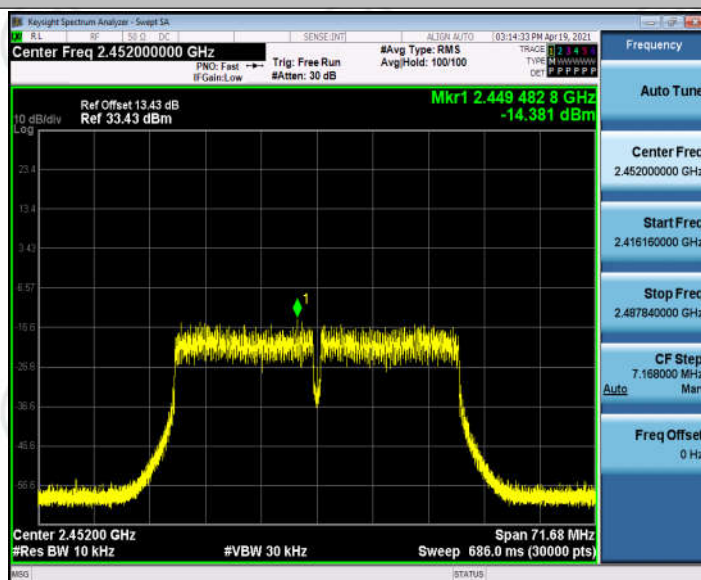
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



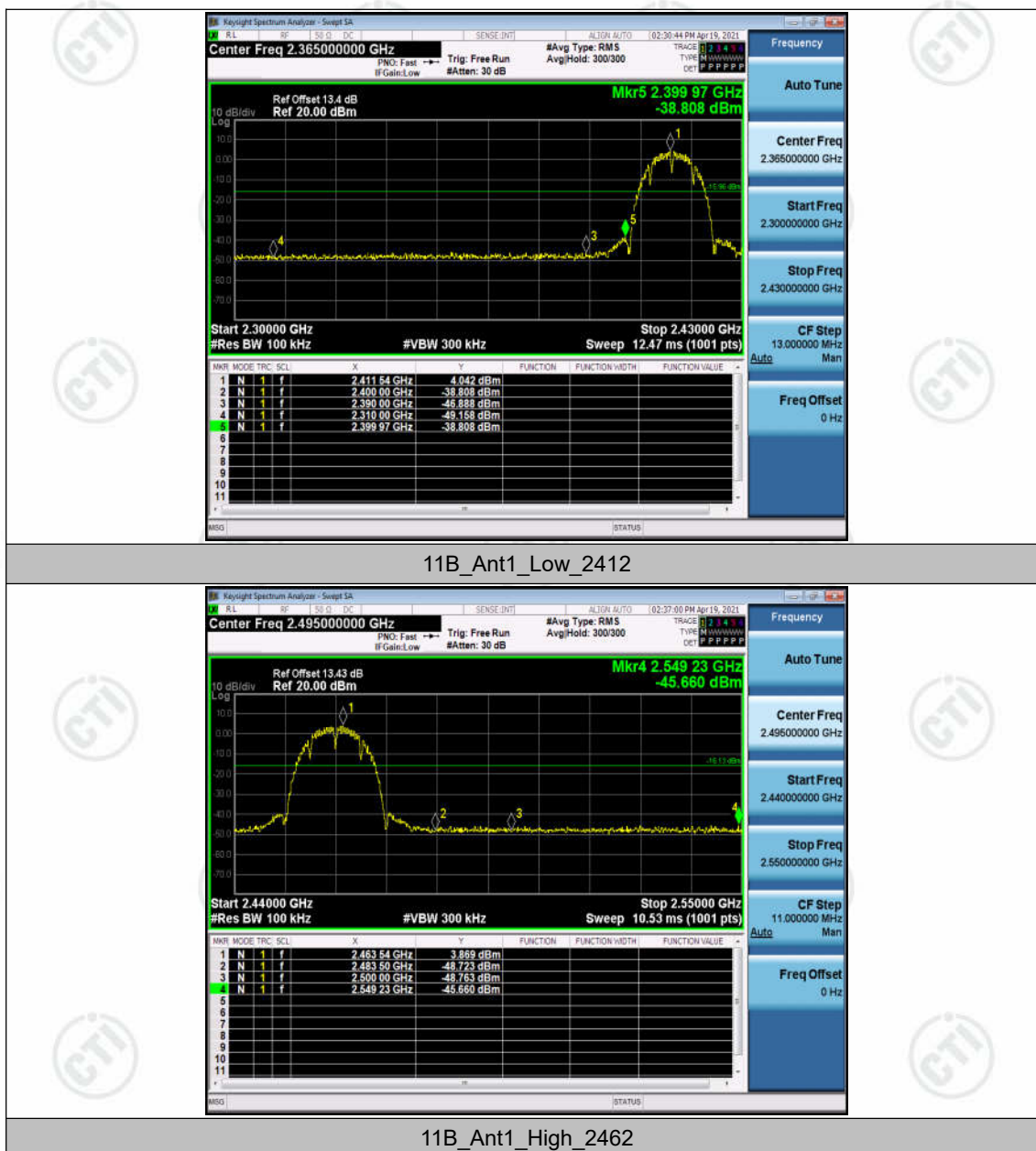
11N40SISO_Ant1_2452

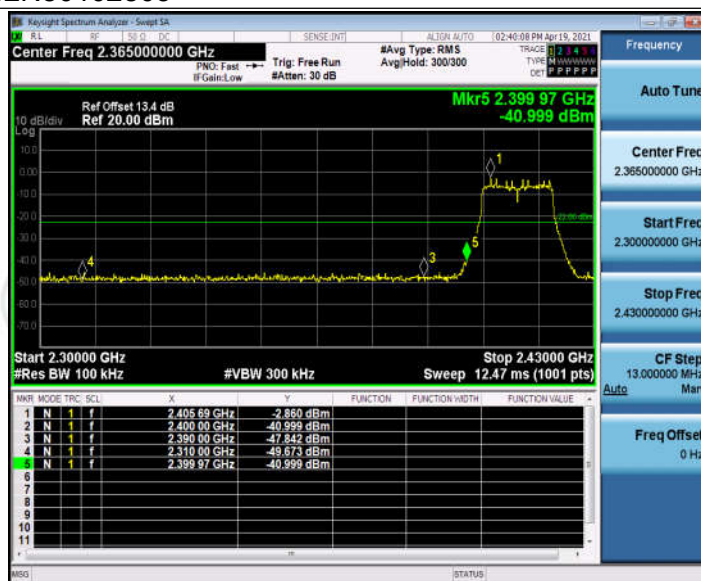
Appendix E: Band edge measurements

Test Result

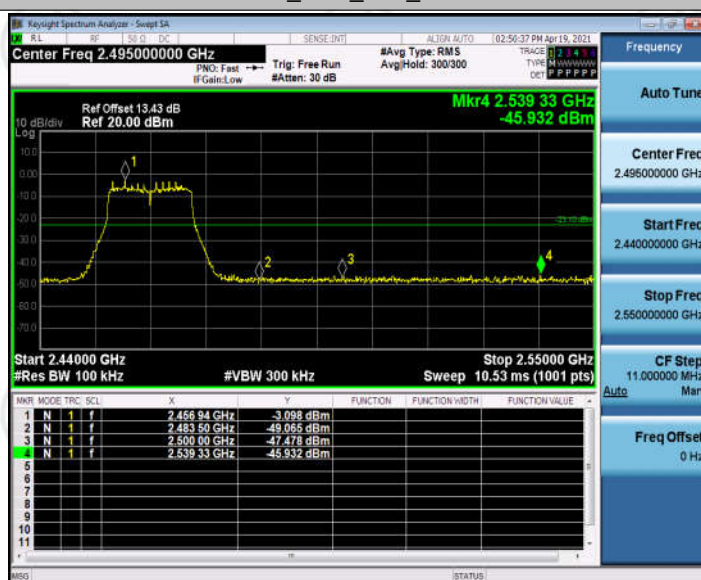
Test Mode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.04	-38.81	<=-15.96	PASS
		High	2462	3.87	-45.66	<=-16.13	PASS
11G	Ant1	Low	2412	-2.86	-41	<=-22.86	PASS
		High	2462	-3.10	-45.93	<=-23.1	PASS
11N20SISO	Ant1	Low	2412	-3.09	-40.69	<=-23.09	PASS
		High	2462	-3.39	-45.64	<=-23.39	PASS
11N40SISO	Ant1	Low	2422	-5.80	-41.48	<=-25.8	PASS
		High	2452	-5.73	-45.28	<=-25.73	PASS

Test Graphs

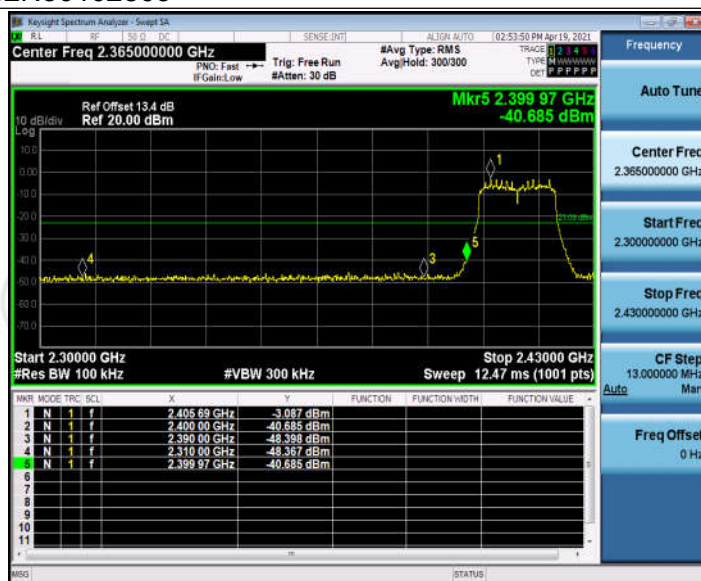




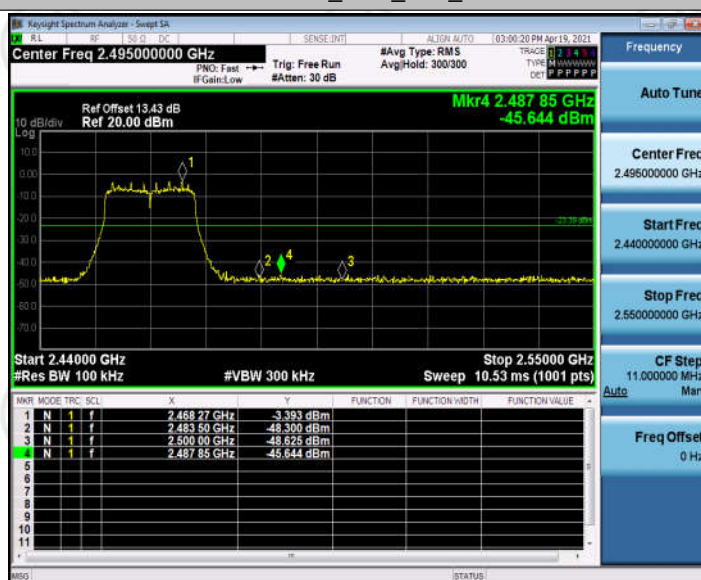
11G_Ant1_Low_2412



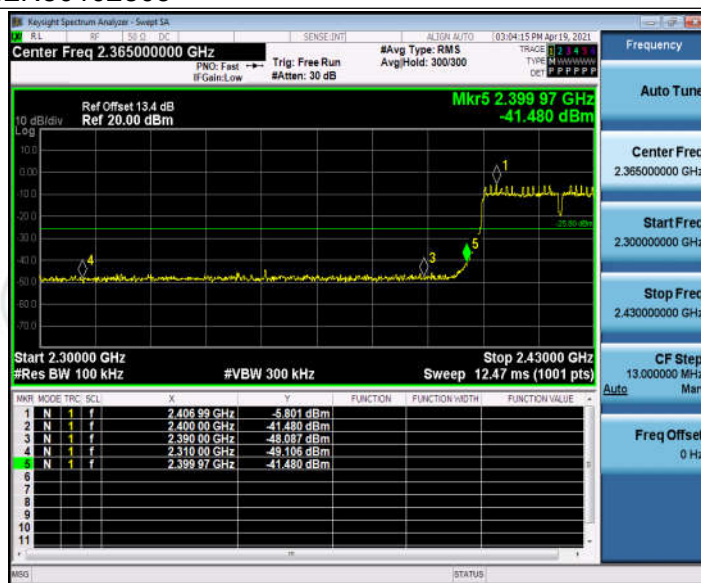
11G_Ant1_High_2462



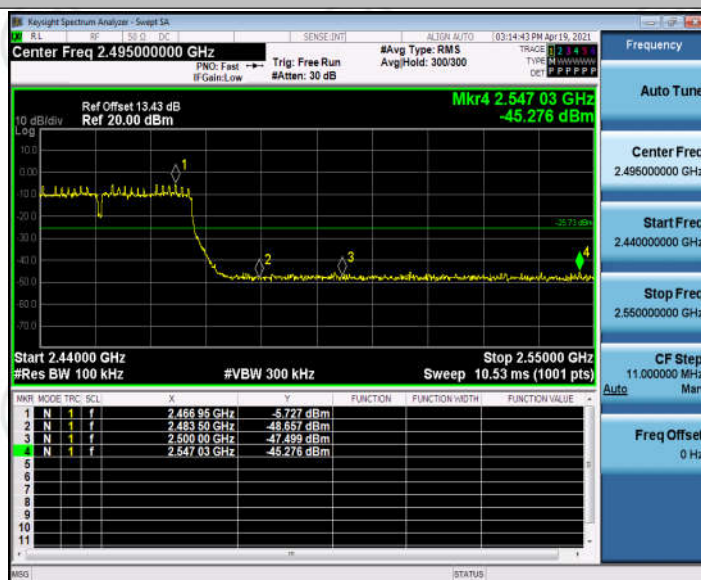
11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

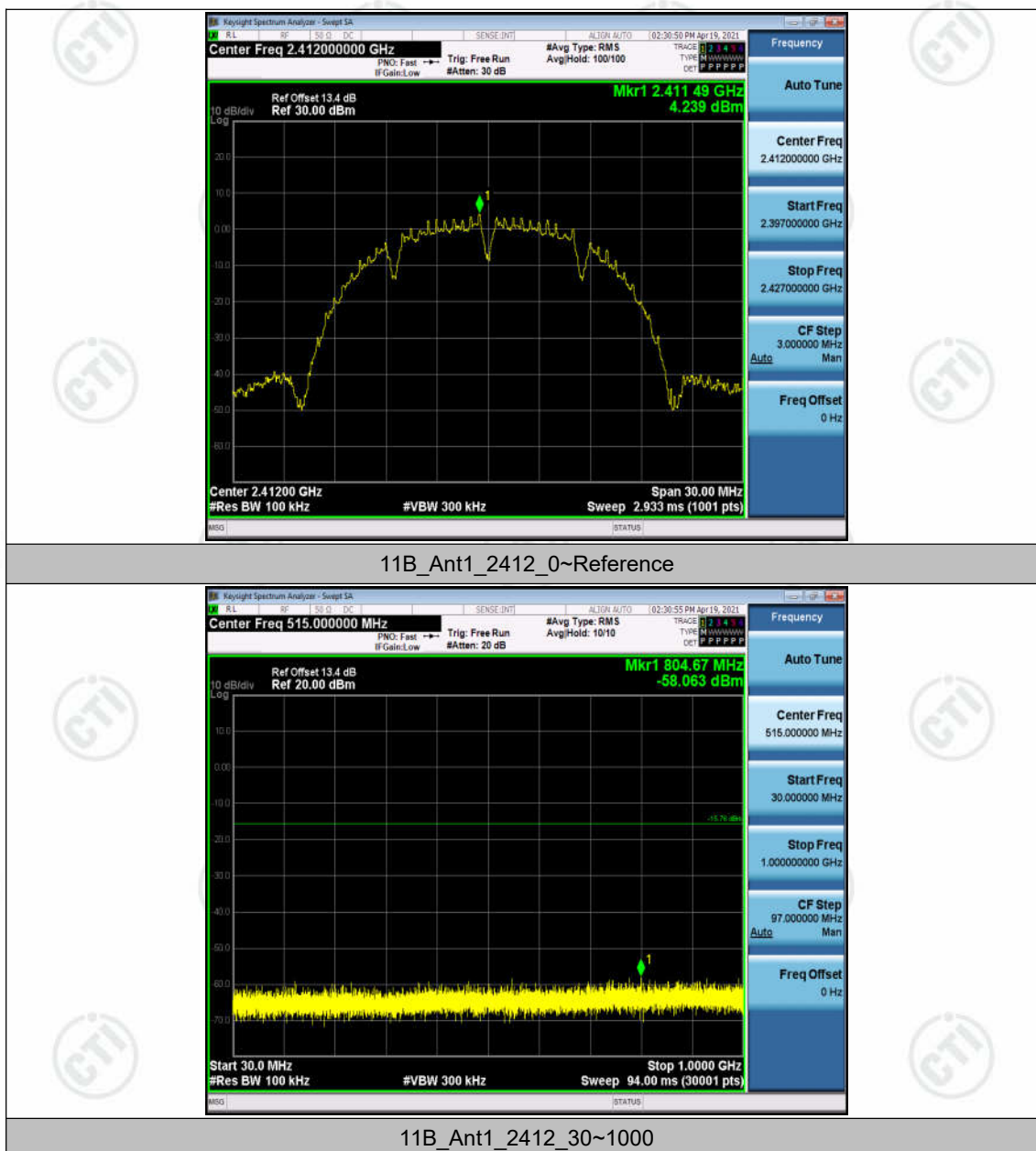
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.24	4.24	---	PASS
			30~1000	30~1000	-58.063	<=-15.761	PASS
			1000~26500	1000~26500	-50.284	<=-15.761	PASS
		2437	Reference	3.55	3.55	---	PASS
			30~1000	30~1000	-58.114	<=-16.449	PASS
			1000~26500	1000~26500	-49.864	<=-16.449	PASS
		2462	Reference	3.85	3.85	---	PASS
			30~1000	30~1000	-57.827	<=-16.154	PASS
			1000~26500	1000~26500	-50.034	<=-16.154	PASS
11G	Ant1	2412	Reference	-3.50	-3.50	---	PASS
			30~1000	30~1000	-57.578	<=-23.502	PASS
			1000~26500	1000~26500	-49.446	<=-23.502	PASS
		2437	Reference	-3.35	-3.35	---	PASS
			30~1000	30~1000	-58.259	<=-23.351	PASS
			1000~26500	1000~26500	-49.116	<=-23.351	PASS
		2462	Reference	-3.00	-3.00	---	PASS
			30~1000	30~1000	-56.259	<=-23.003	PASS
			1000~26500	1000~26500	-50.066	<=-23.003	PASS
11N20SISO	Ant1	2412	Reference	-3.07	-3.07	---	PASS
			30~1000	30~1000	-57.386	<=-23.069	PASS
			1000~26500	1000~26500	-49.769	<=-23.069	PASS
		2437	Reference	-3.51	-3.51	---	PASS
			30~1000	30~1000	-58.131	<=-23.509	PASS
			1000~26500	1000~26500	-49.629	<=-23.509	PASS
		2462	Reference	-2.99	-2.99	---	PASS
			30~1000	30~1000	-57.734	<=-22.993	PASS
			1000~26500	1000~26500	-49.837	<=-22.993	PASS
11N40SISO	Ant1	2422	Reference	-5.75	-5.75	---	PASS
			30~1000	30~1000	-58.243	<=-25.754	PASS
			1000~26500	1000~26500	-49.835	<=-25.754	PASS
		2437	Reference	-5.95	-5.95	---	PASS
			30~1000	30~1000	-57.025	<=-25.945	PASS
			1000~26500	1000~26500	-49.49	<=-25.945	PASS
		2452	Reference	-5.78	-5.78	---	PASS
			30~1000	30~1000	-57.607	<=-25.782	PASS

			1000~26500	1000~26500	-49.55	<=-25.782	PASS
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Test Graphs

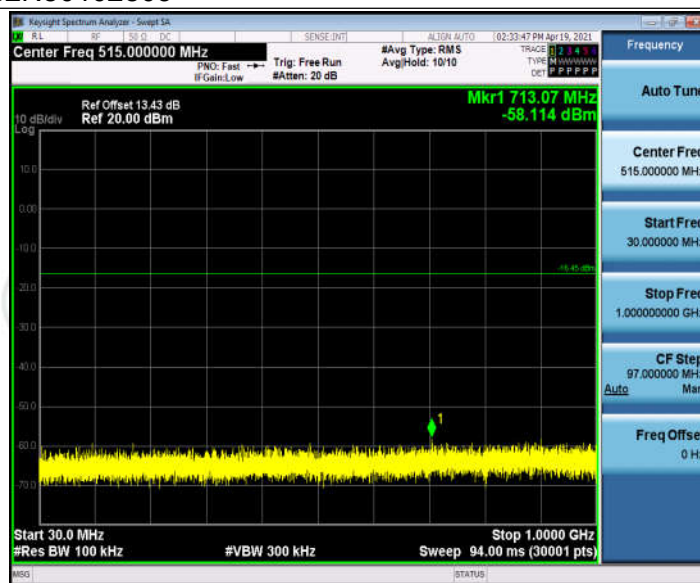




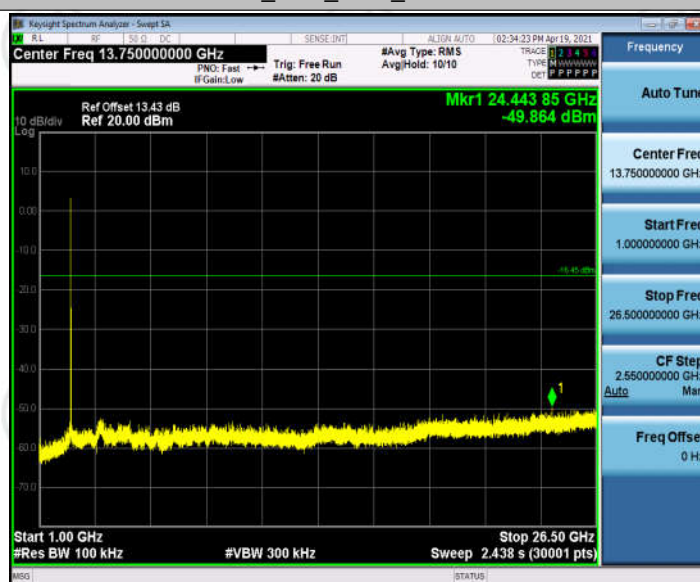
11B_Ant1_2412_1000~26500



11B_Ant1_2437_0~Reference



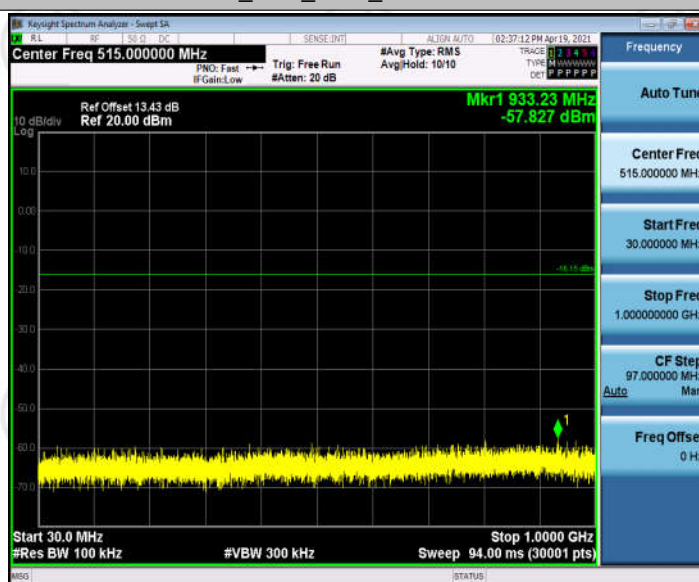
11B_Ant1_2437_30~1000



11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



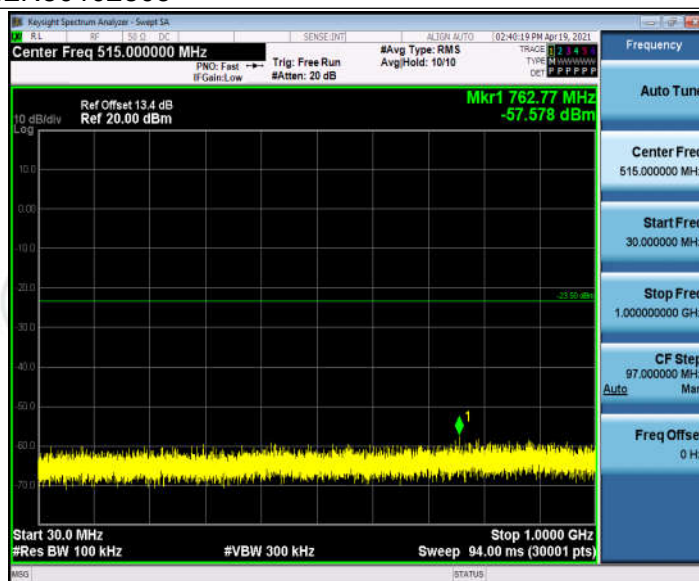
11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



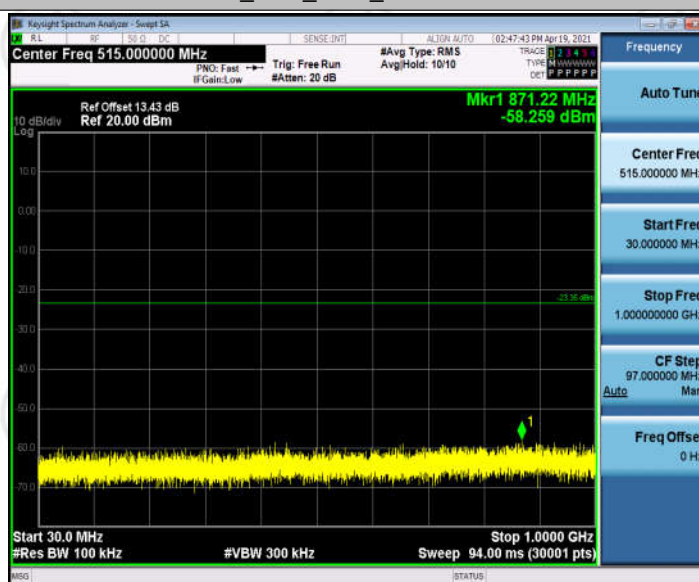
11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



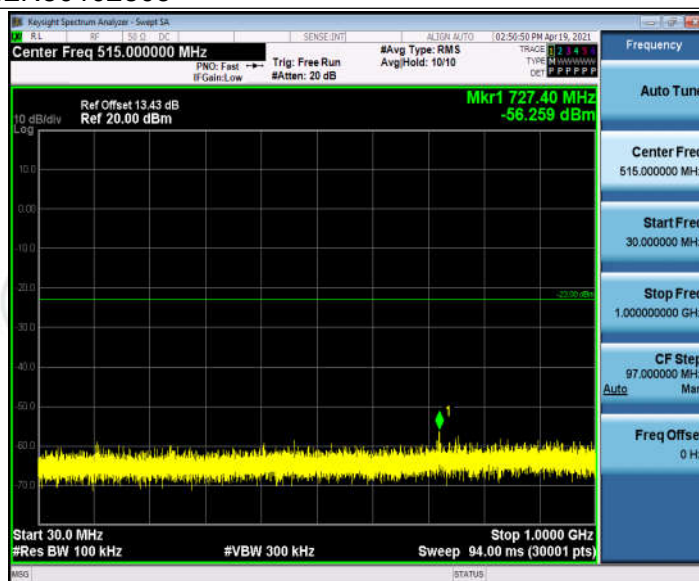
11G_Ant1_2437_30~1000



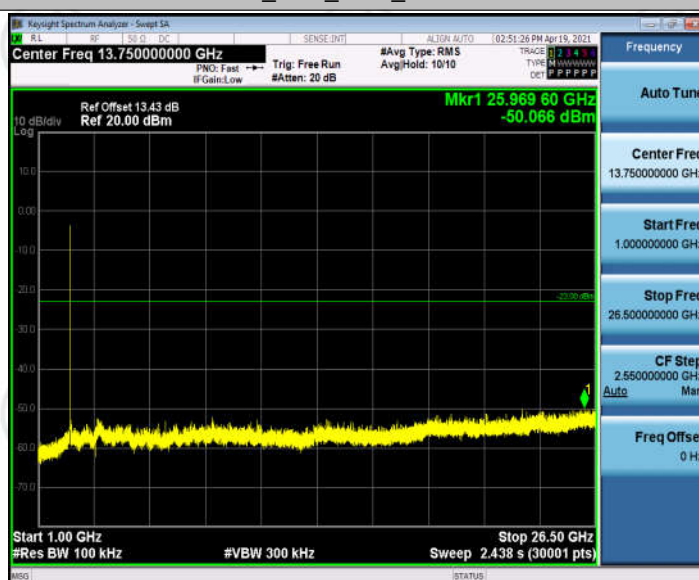
11G_Ant1_2437_1000~26500



11G_Ant1_2462_0~Reference



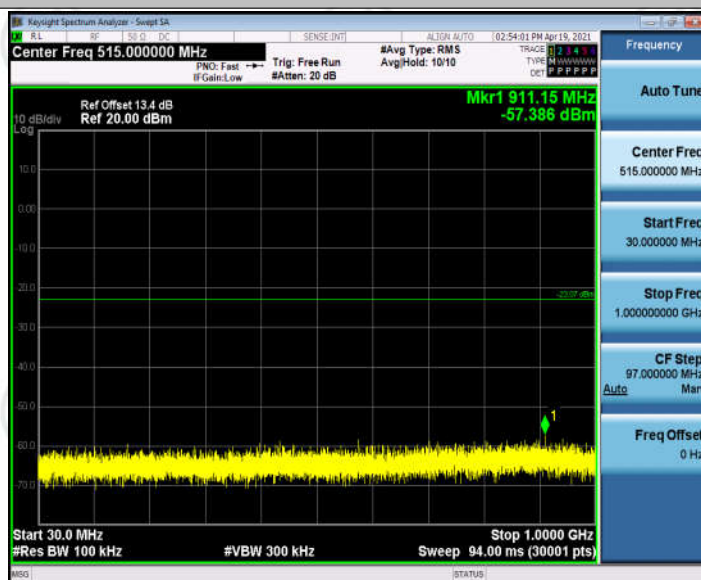
11G_Ant1_2462_30~1000



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



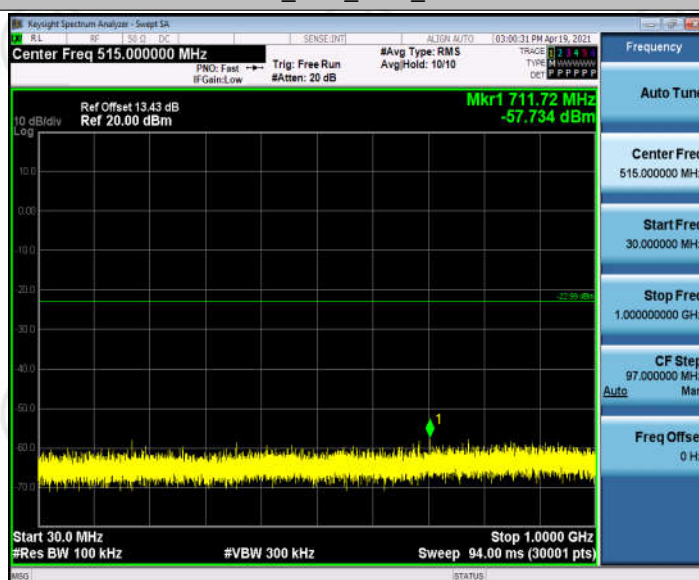
11N20SISO_Ant1_2437_30~1000



11N20SISO_Ant1_2437_1000~26500



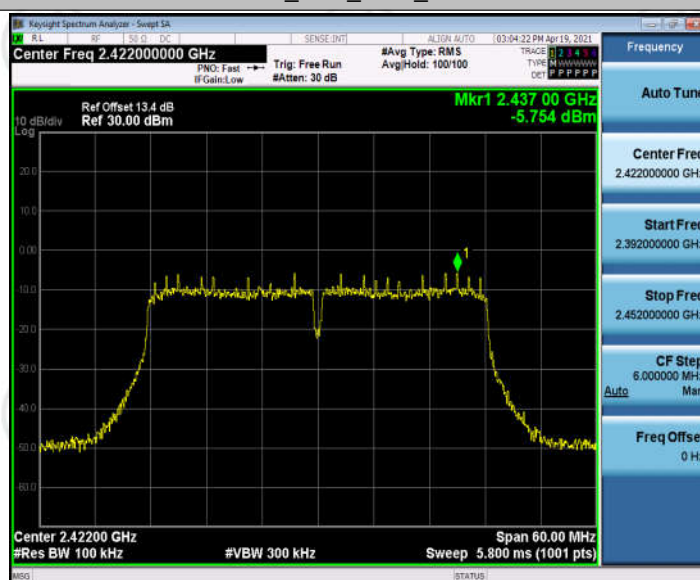
11N20SISO_Ant1_2462_0~Reference



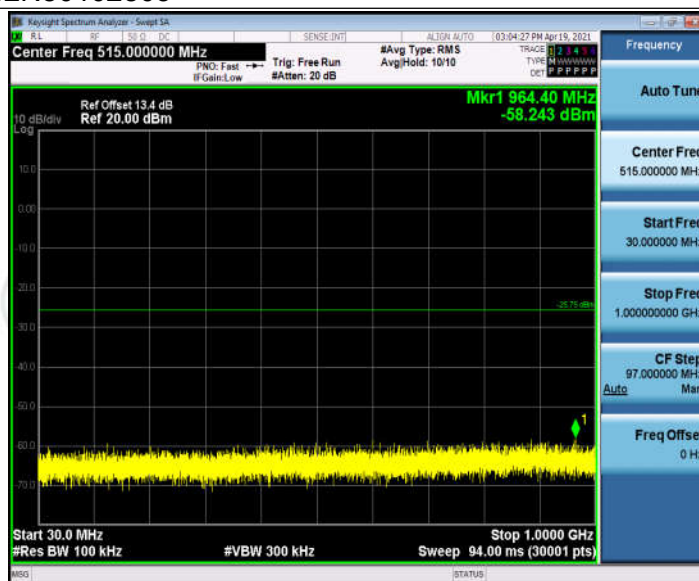
11N20SISO_Ant1_2462_30~1000



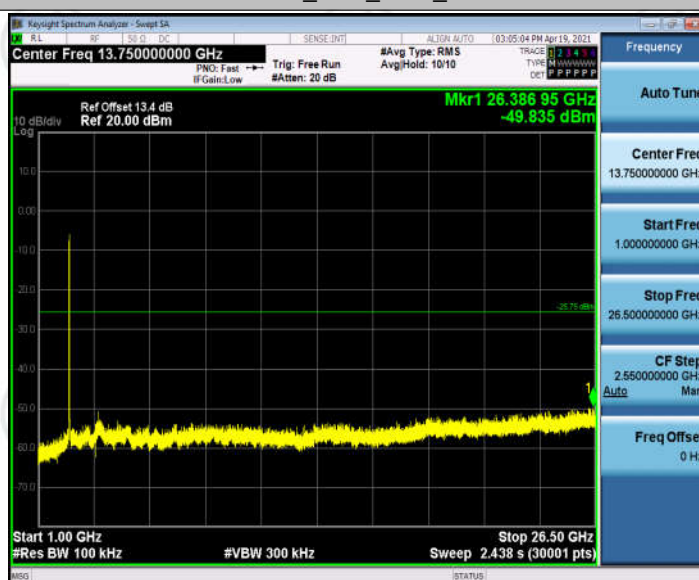
11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_0~Reference



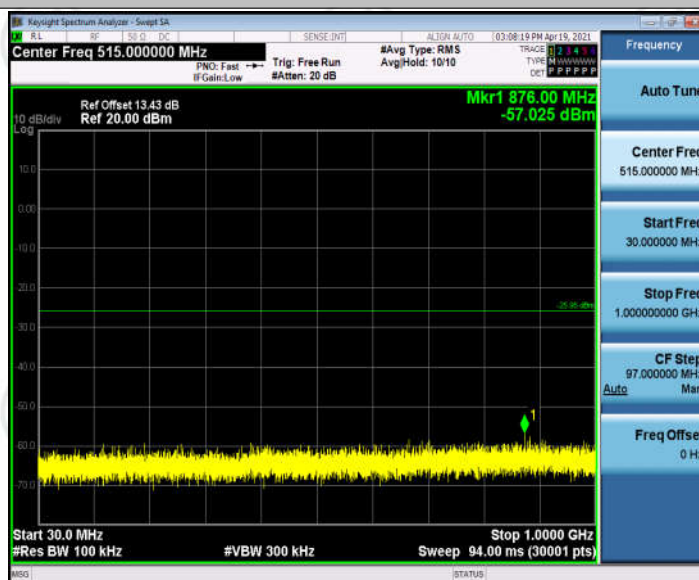
11N40SISO_Ant1_2422_30~1000



11N40SISO_Ant1_2422_1000~26500



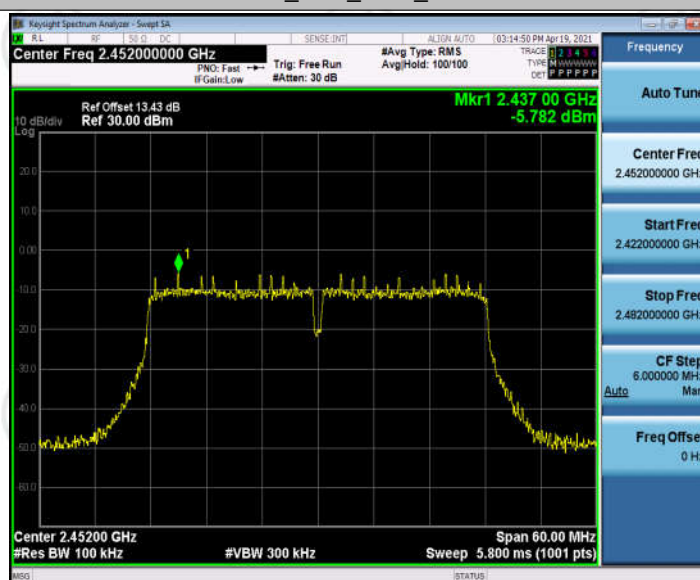
11N40SISO_Ant1_2437_0~Reference



11N40SISO_Ant1_2437_30~1000



11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



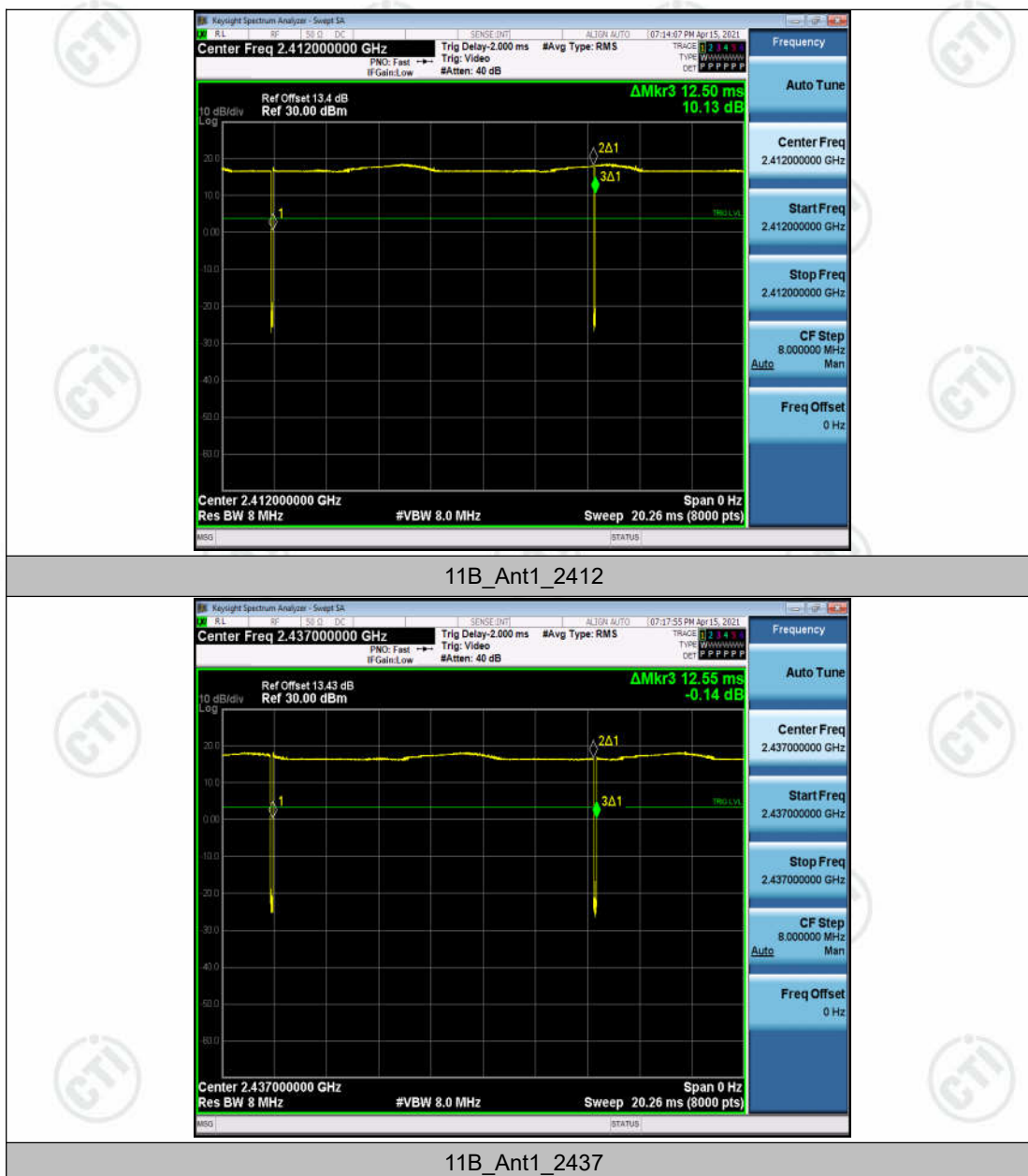
11N40SISO_Ant1_2452_1000~26500

Appendix G: DutyCycle

Test Result

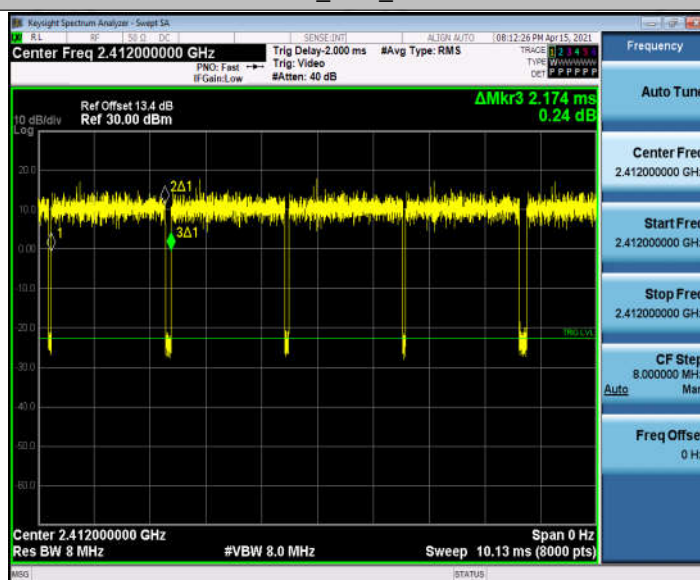
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	12.42	12.50	99.31	---	PASS
		2437	12.42	12.55	98.97	---	PASS
		2462	12.42	12.48	99.45	---	PASS
11G	Ant1	2412	2.06	2.17	94.93	---	PASS
		2437	2.06	2.10	98.19	---	PASS
		2462	2.06	2.15	96.11	---	PASS
11N20SISO	Ant1	2412	1.92	2.07	92.89	---	PASS
		2437	1.92	2.01	95.40	---	PASS
		2462	1.92	1.97	97.55	---	PASS
11N40SISO	Ant1	2422	0.94	1.12	84.47	---	PASS
		2437	0.94	0.99	95.27	---	PASS
		2452	0.94	0.99	95.15	---	PASS

Test Graphs

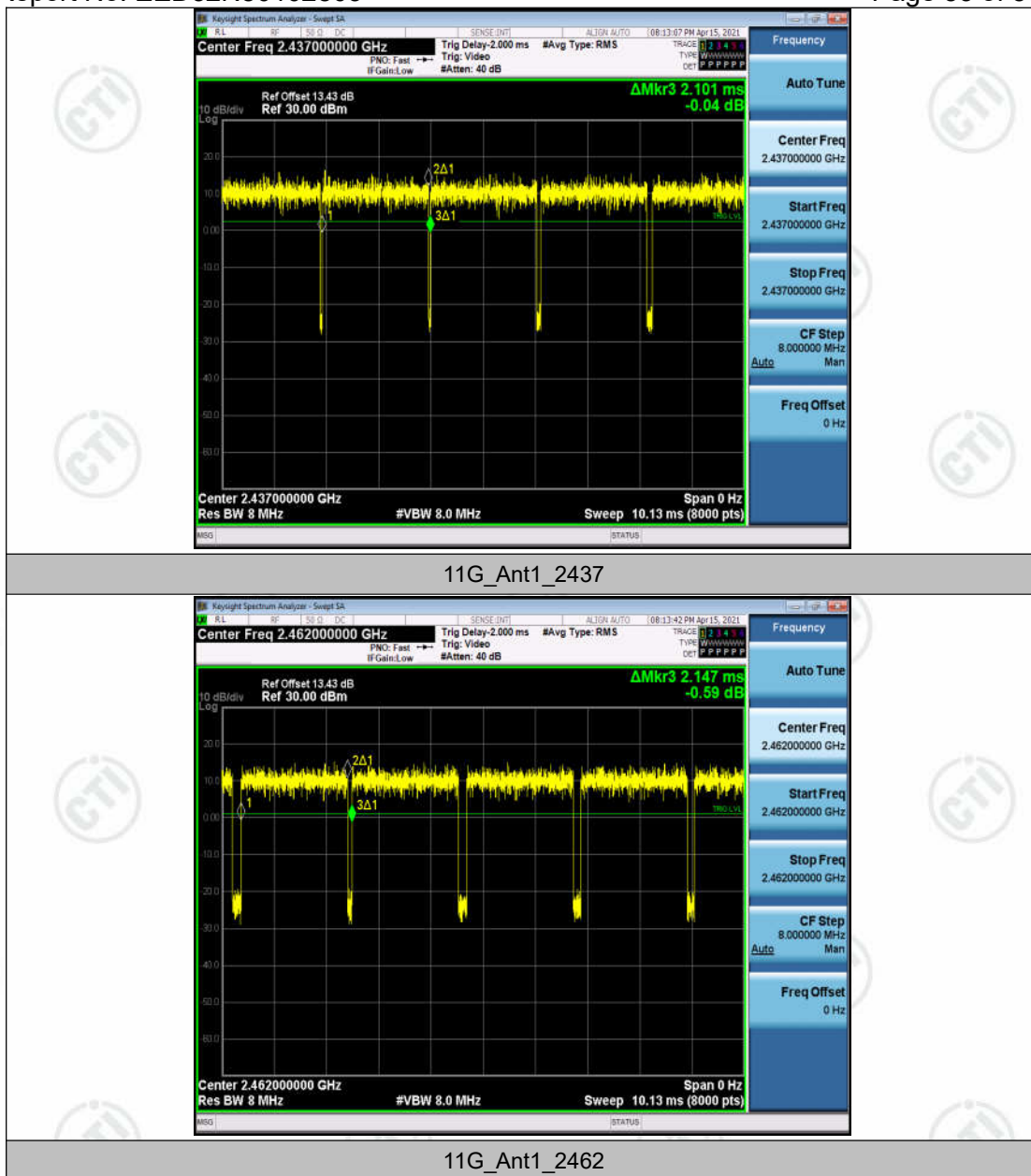




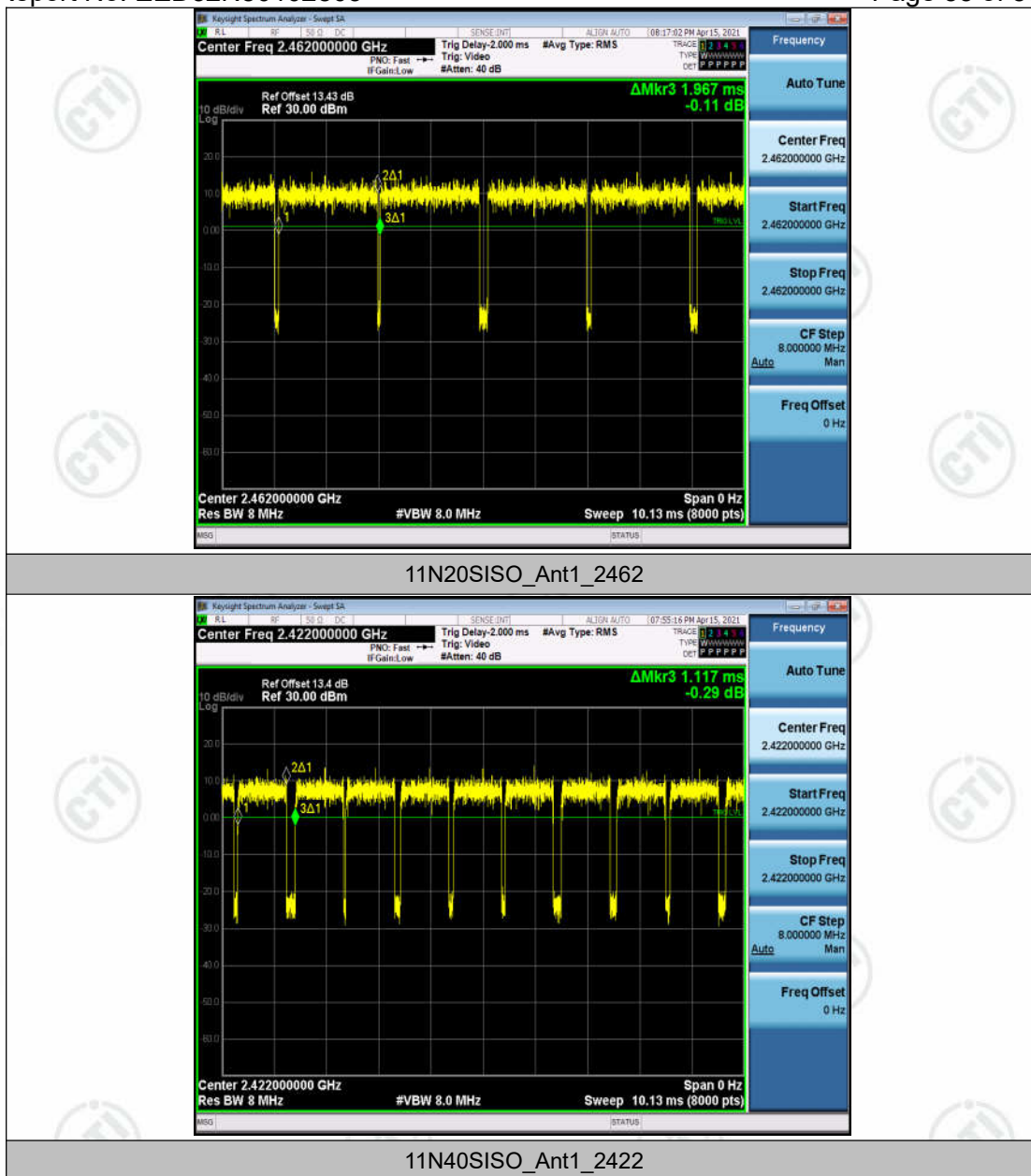
11B_Ant1_2462

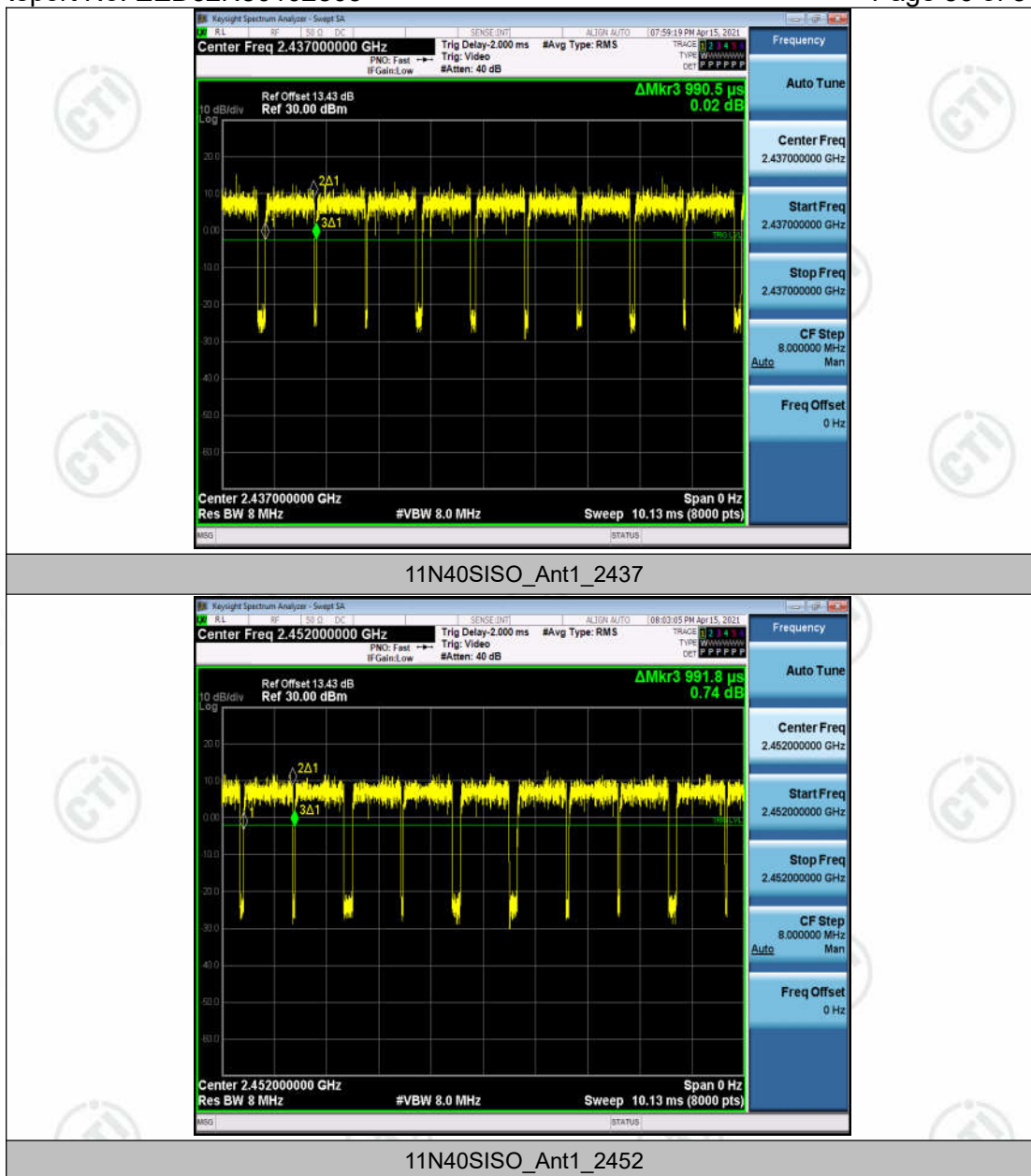


11G_Ant1_2412









*** End of Report ***