

Appendix: 2.4G WIFI

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AppendixA: DTS Bandwidth

Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.160	2406.920	2417.080	0.5	PASS
	Ant2	2412	10.160	2406.920	2417.080	0.5	PASS
	Ant1	2437	10.080	2431.920	2442.000	0.5	PASS
	Ant2	2437	10.120	2431.920	2442.040	0.5	PASS
	Ant1	2462	10.160	2456.920	2467.080	0.5	PASS
	Ant2	2462	10.160	2456.920	2467.080	0.5	PASS
11G	Ant1	2412	15.360	2404.440	2419.800	0.5	PASS
	Ant2	2412	15.080	2404.440	2419.520	0.5	PASS
	Ant1	2437	15.760	2429.000	2444.760	0.5	PASS
	Ant2	2437	16.360	2428.800	2445.160	0.5	PASS
	Ant1	2462	15.760	2454.040	2469.800	0.5	PASS
	Ant2	2462	15.760	2454.080	2469.840	0.5	PASS
11N20SIS O	Ant1	2412	16.560	2403.840	2420.400	0.5	PASS
	Ant2	2412	17.600	2403.200	2420.800	0.5	PASS
	Ant1	2437	17.240	2428.560	2445.800	0.5	PASS
	Ant2	2437	16.600	2428.800	2445.400	0.5	PASS
	Ant1	2462	17.360	2453.440	2470.800	0.5	PASS
	Ant2	2462	17.080	2453.480	2470.560	0.5	PASS
11N40SIS O	Ant1	2422	35.200	2404.400	2439.600	0.5	PASS
	Ant2	2422	35.360	2404.320	2439.680	0.5	PASS
	Ant1	2437	35.280	2419.400	2454.680	0.5	PASS
	Ant2	2437	35.280	2419.320	2454.600	0.5	PASS
	Ant1	2452	31.680	2436.880	2468.560	0.5	PASS
	Ant2	2452	35.600	2434.000	2469.600	0.5	PASS

Test Graphs

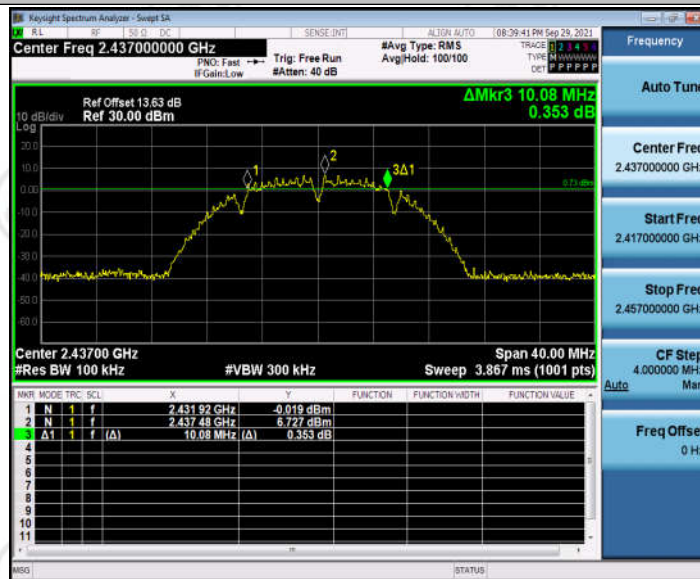
11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437



11B_Ant2_2437



11B_Ant1_2462



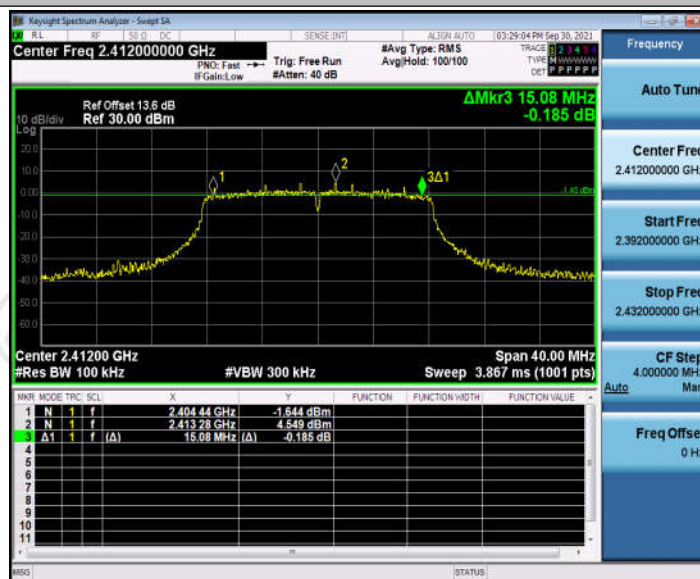
11B_Ant2_2462



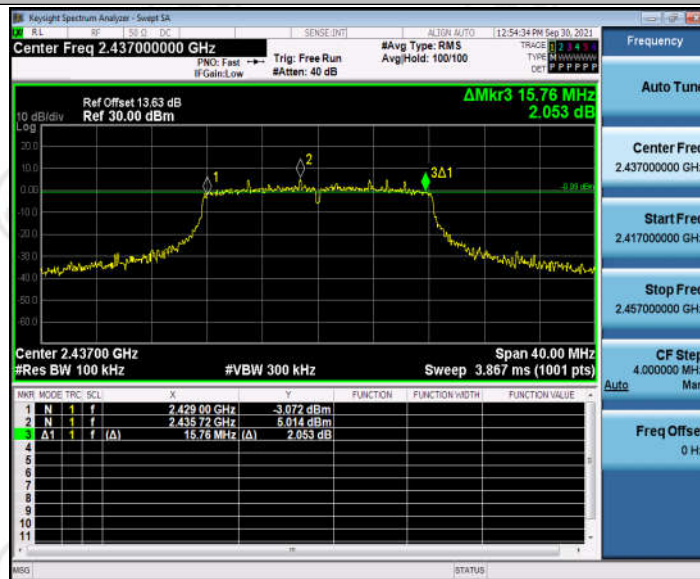
11G_Ant1_2412



11G_Ant2_2412



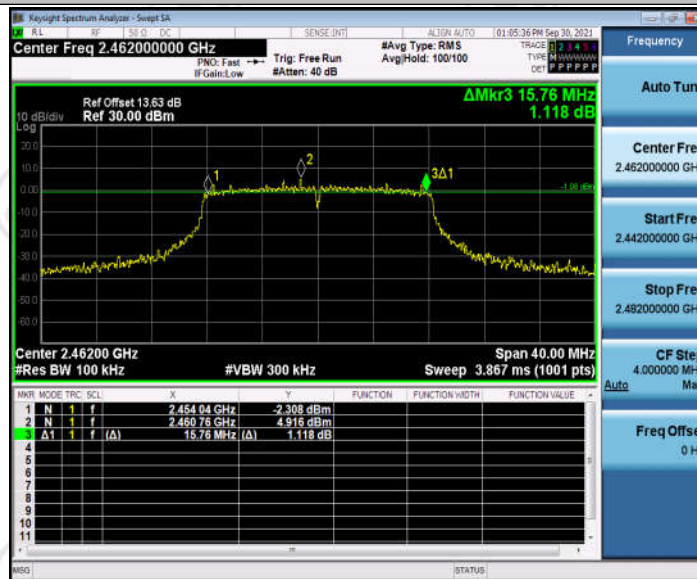
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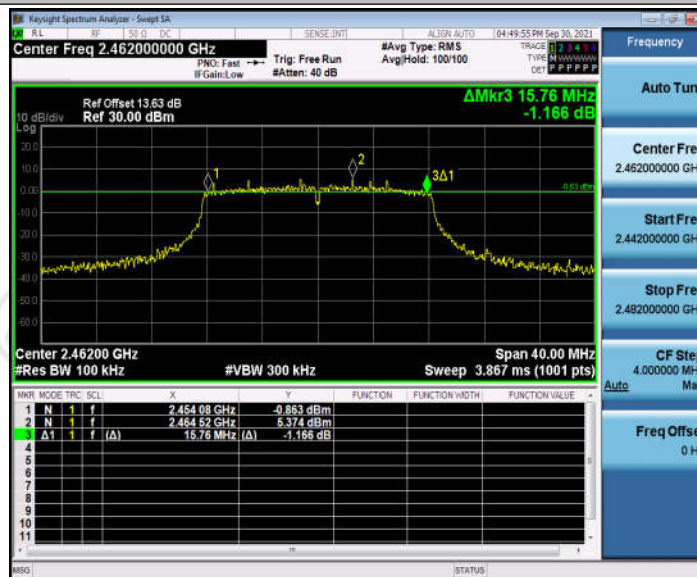
11G_Ant2_2437

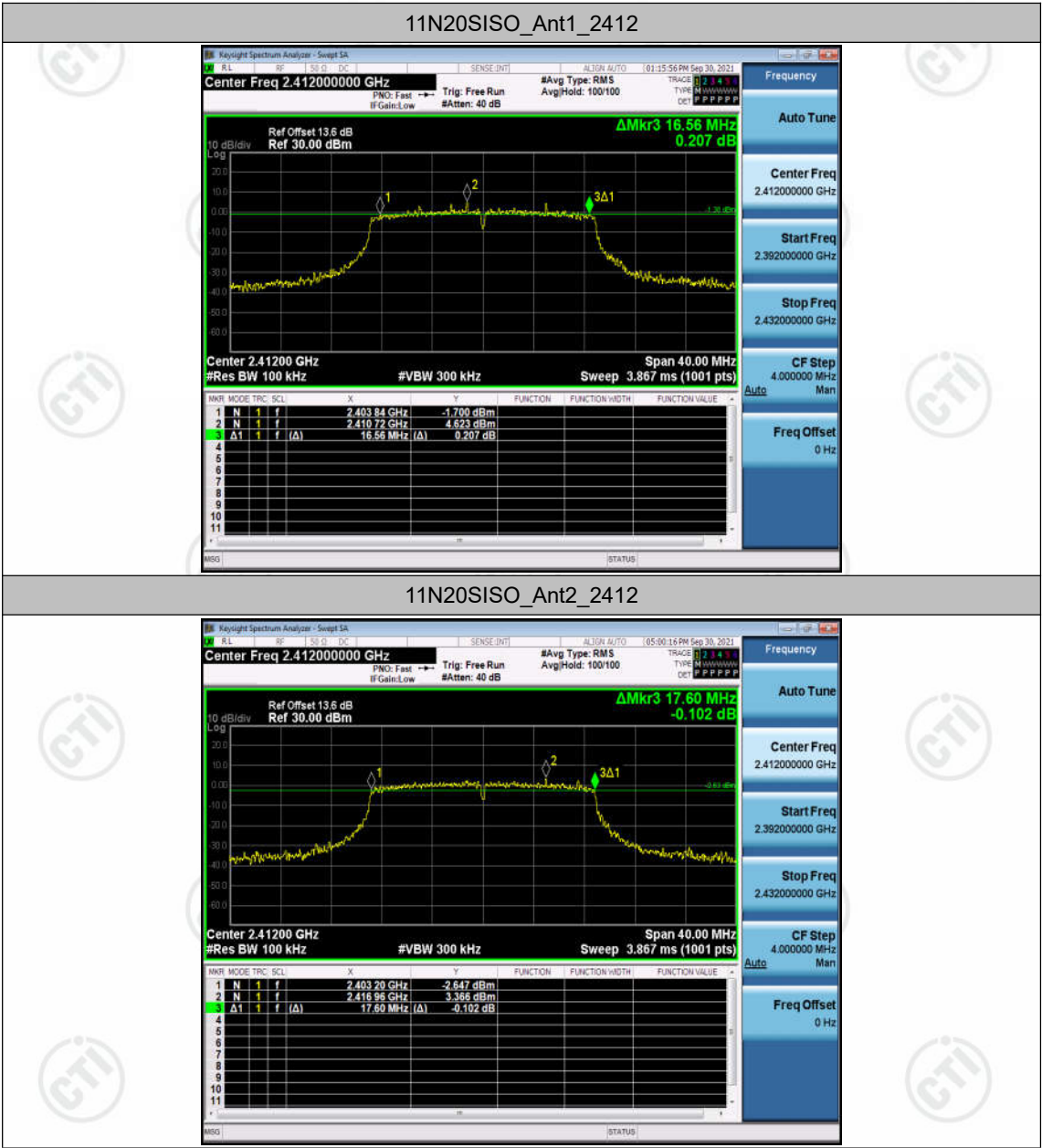


11G_Ant1_2462

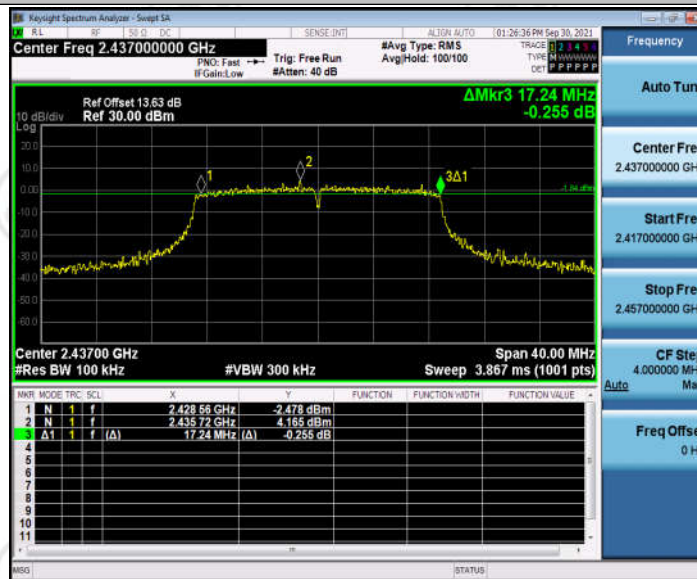


11G_Ant2_2462



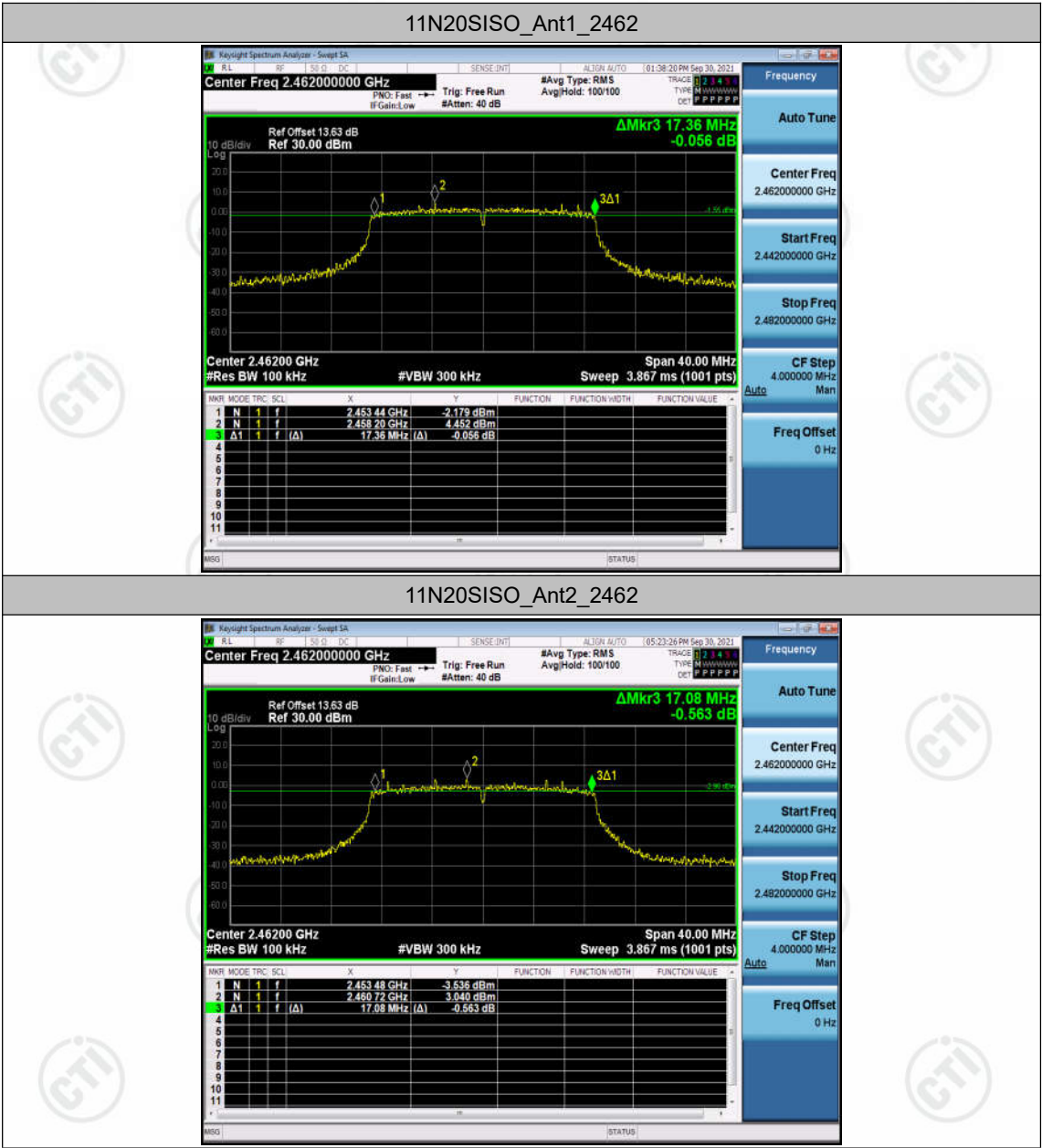


11N20SISO_Ant1_2437

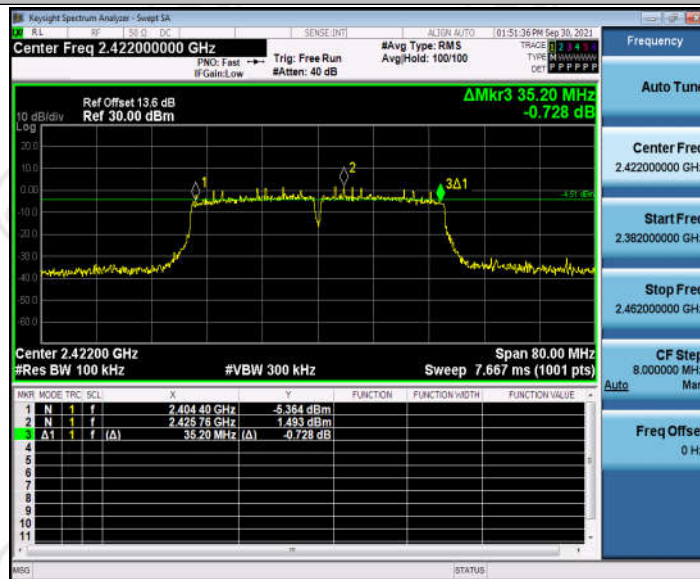


11N20SISO_Ant2_2437

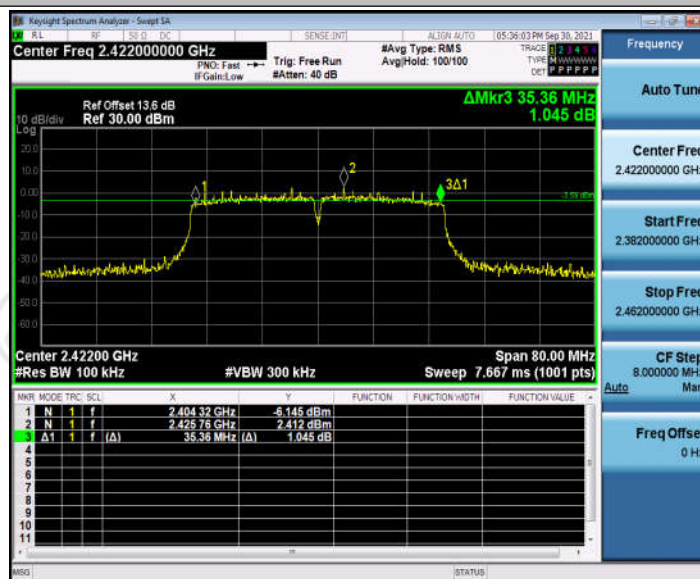




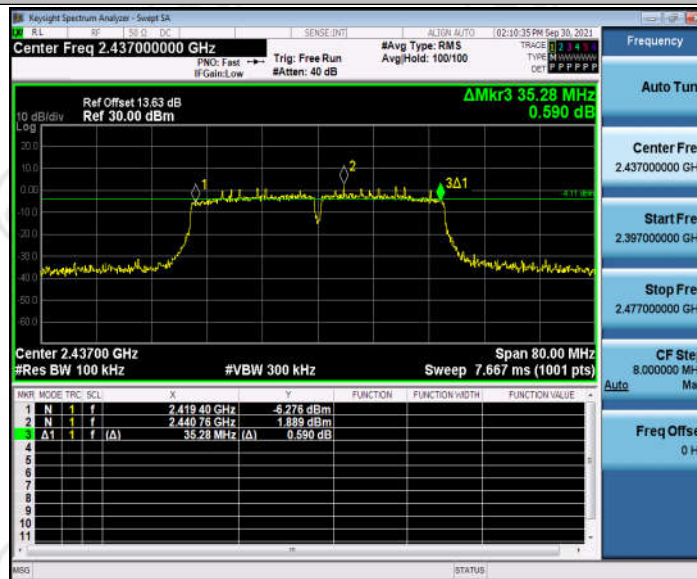
11N40SISO_Ant1_2422



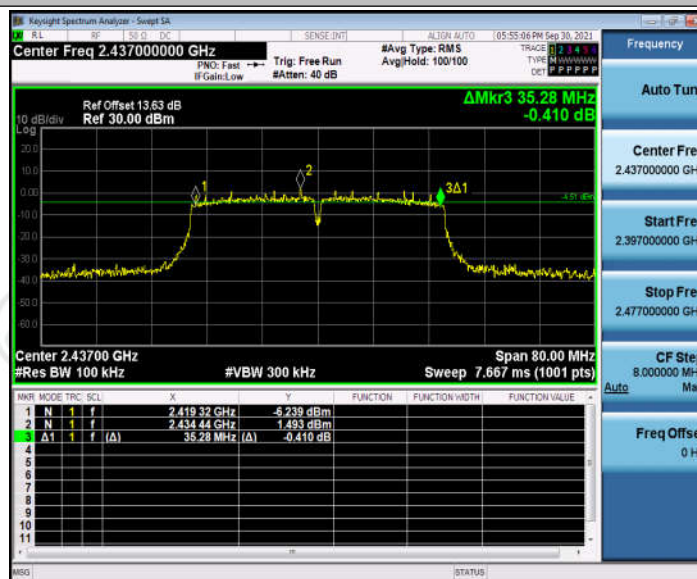
11N40SISO_Ant2_2422



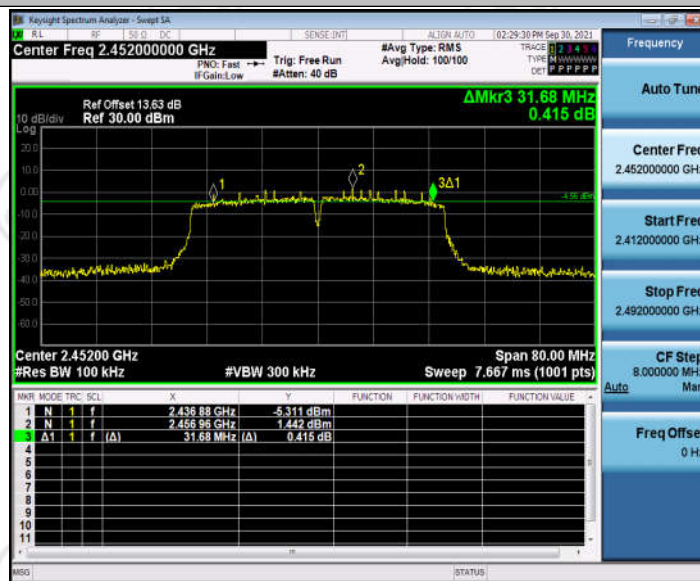
11N40SISO_Ant1_2437



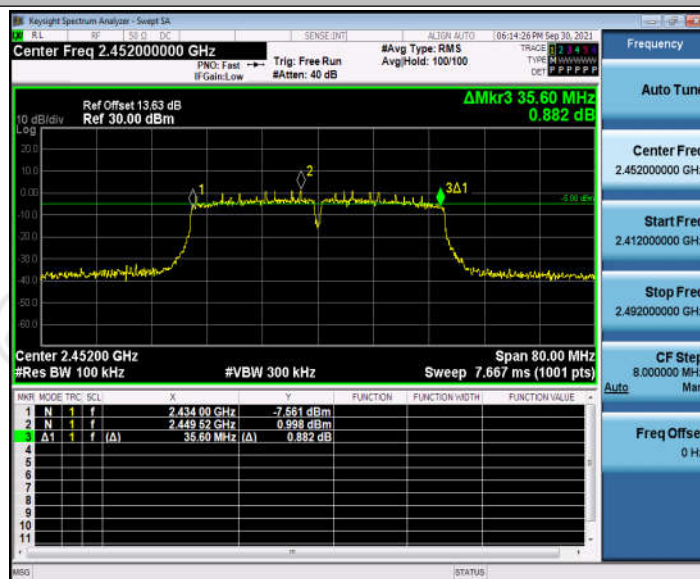
11N40SISO_Ant2_2437



11N40SISO_Ant1_2452



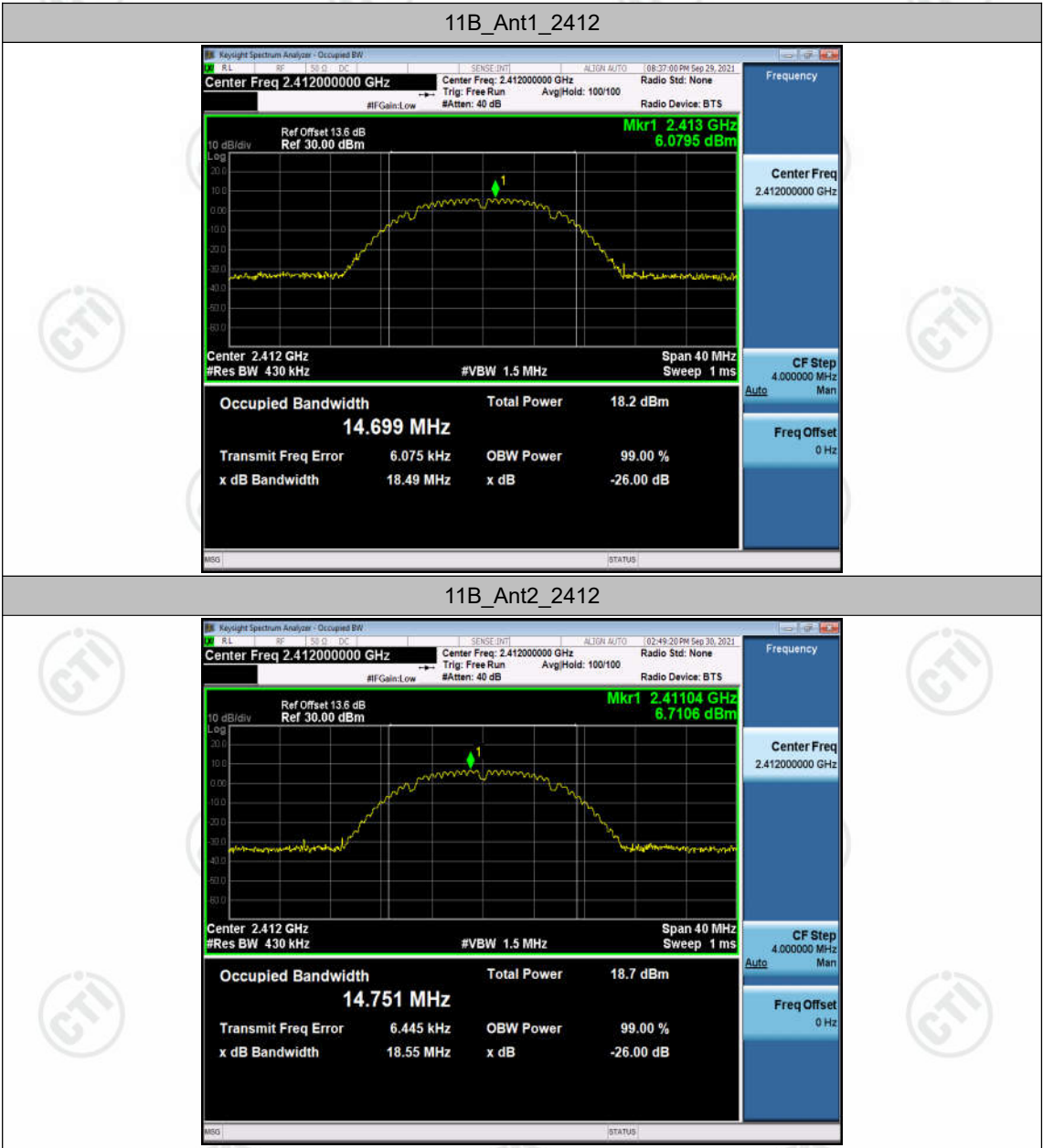
11N40SISO_Ant2_2452

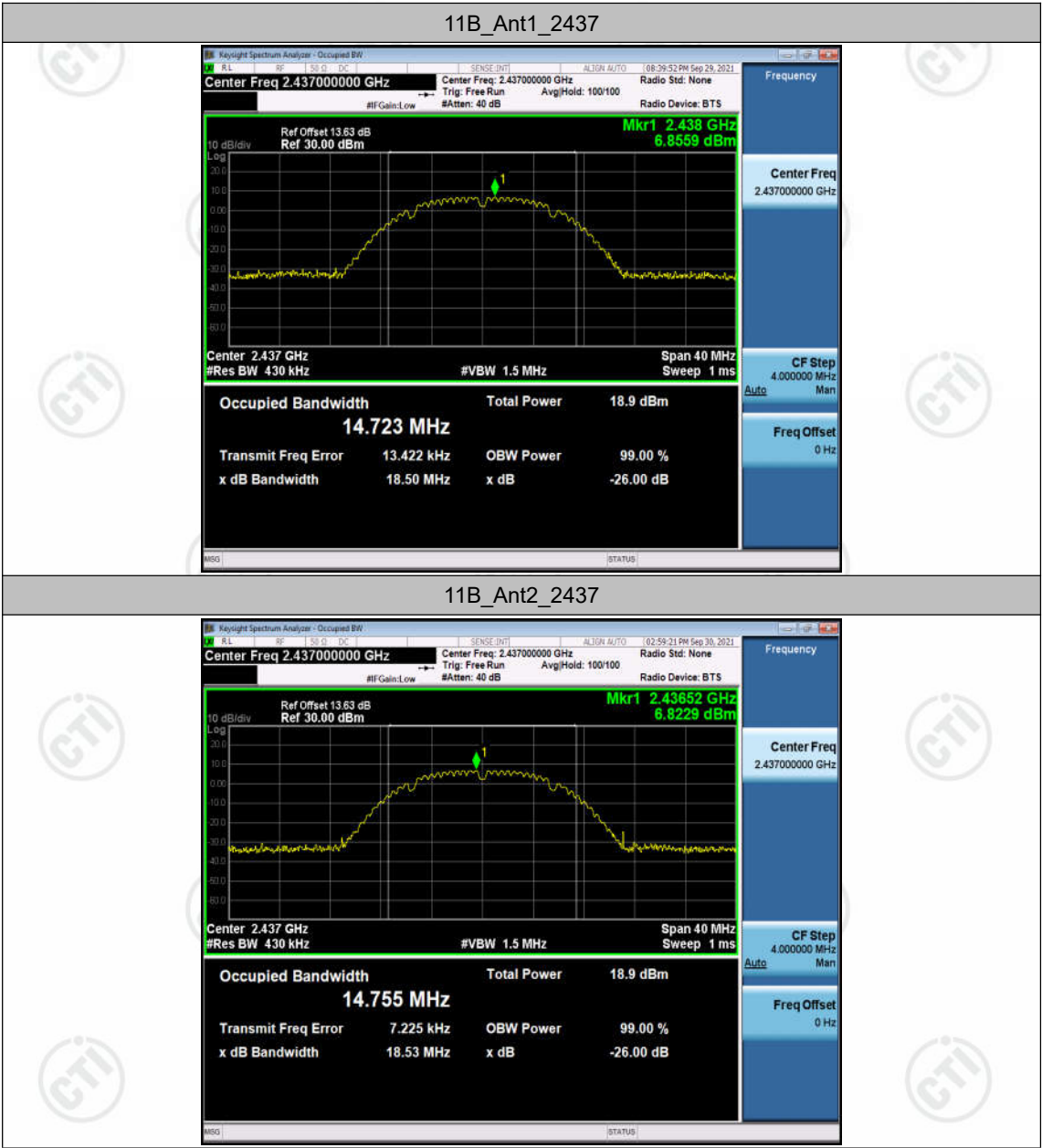


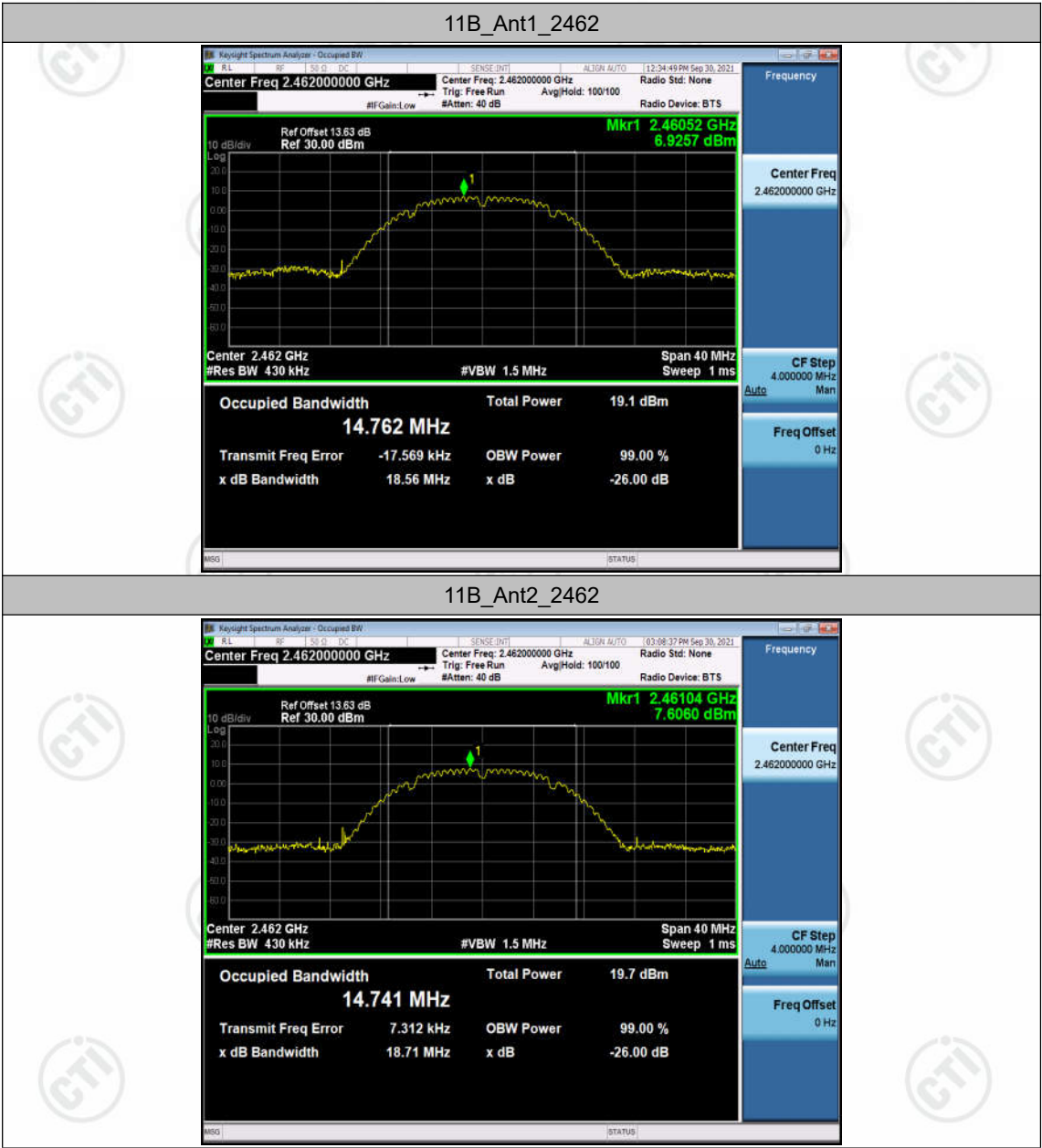
AppendixB: Occupied Channel Bandwidth**Test Result**

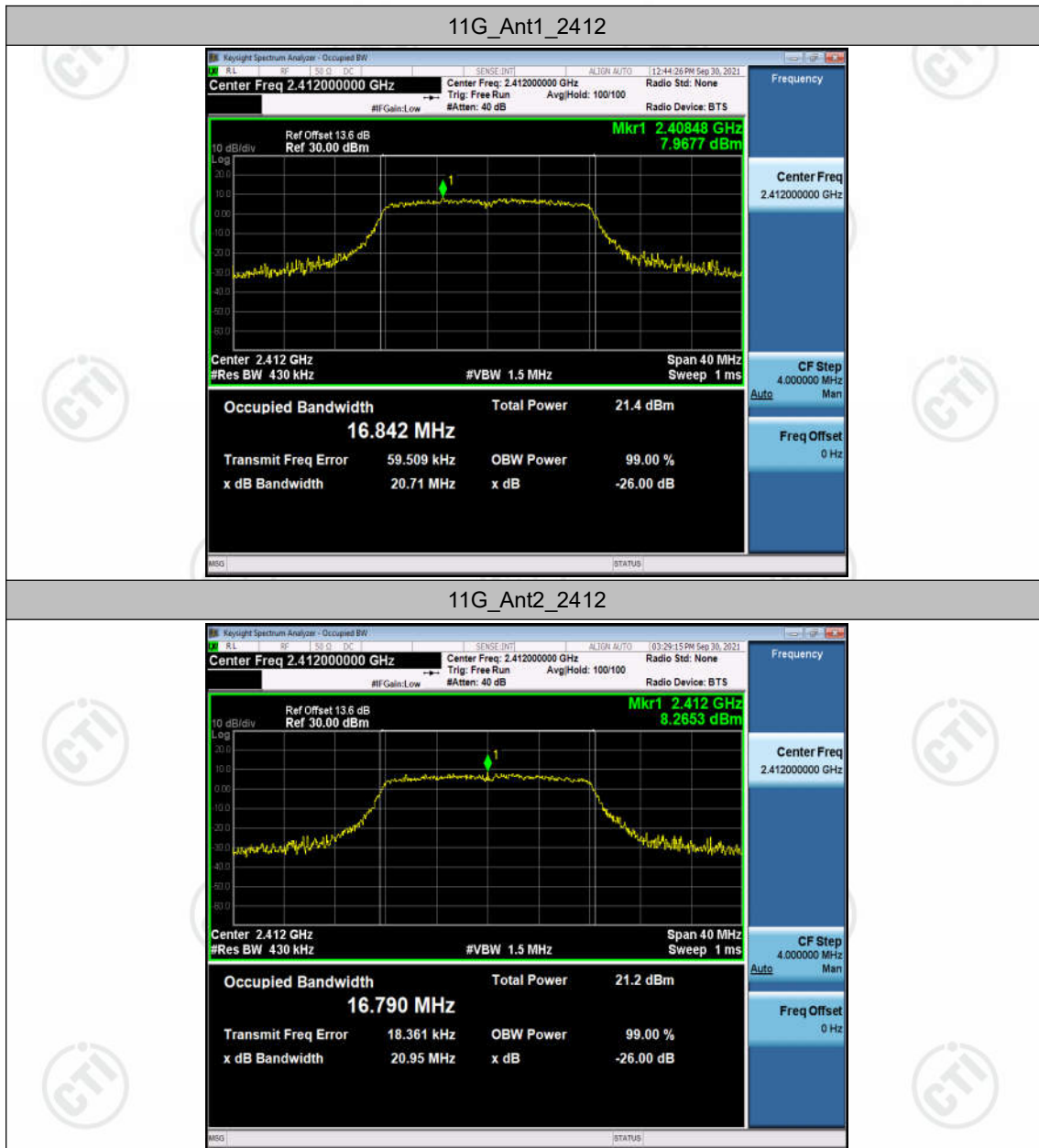
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.699	2404.657	2419.356	---	PASS
	Ant2	2412	14.751	2404.631	2419.382	---	PASS
	Ant1	2437	14.723	2429.652	2444.375	---	PASS
	Ant2	2437	14.755	2429.630	2444.385	---	PASS
	Ant1	2462	14.762	2454.601	2469.363	---	PASS
	Ant2	2462	14.741	2454.637	2469.378	---	PASS
11G	Ant1	2412	16.842	2403.639	2420.481	---	PASS
	Ant2	2412	16.790	2403.623	2420.413	---	PASS
	Ant1	2437	16.842	2428.631	2445.473	---	PASS
	Ant2	2437	16.760	2428.639	2445.399	---	PASS
	Ant1	2462	16.786	2453.642	2470.428	---	PASS
	Ant2	2462	16.786	2453.622	2470.408	---	PASS
11N20SIS O	Ant1	2412	17.858	2403.110	2420.968	---	PASS
	Ant2	2412	17.867	2403.061	2420.928	---	PASS
	Ant1	2437	17.884	2428.093	2445.977	---	PASS
	Ant2	2437	17.954	2428.016	2445.970	---	PASS
	Ant1	2462	17.940	2453.016	2470.956	---	PASS
	Ant2	2462	17.852	2453.052	2470.904	---	PASS
11N40SIS O	Ant1	2422	36.217	2403.975	2440.192	---	PASS
	Ant2	2422	36.297	2403.812	2440.109	---	PASS
	Ant1	2437	36.400	2418.939	2455.339	---	PASS
	Ant2	2437	36.422	2418.777	2455.199	---	PASS
	Ant1	2452	36.389	2433.851	2470.240	---	PASS
	Ant2	2452	36.233	2433.866	2470.099	---	PASS

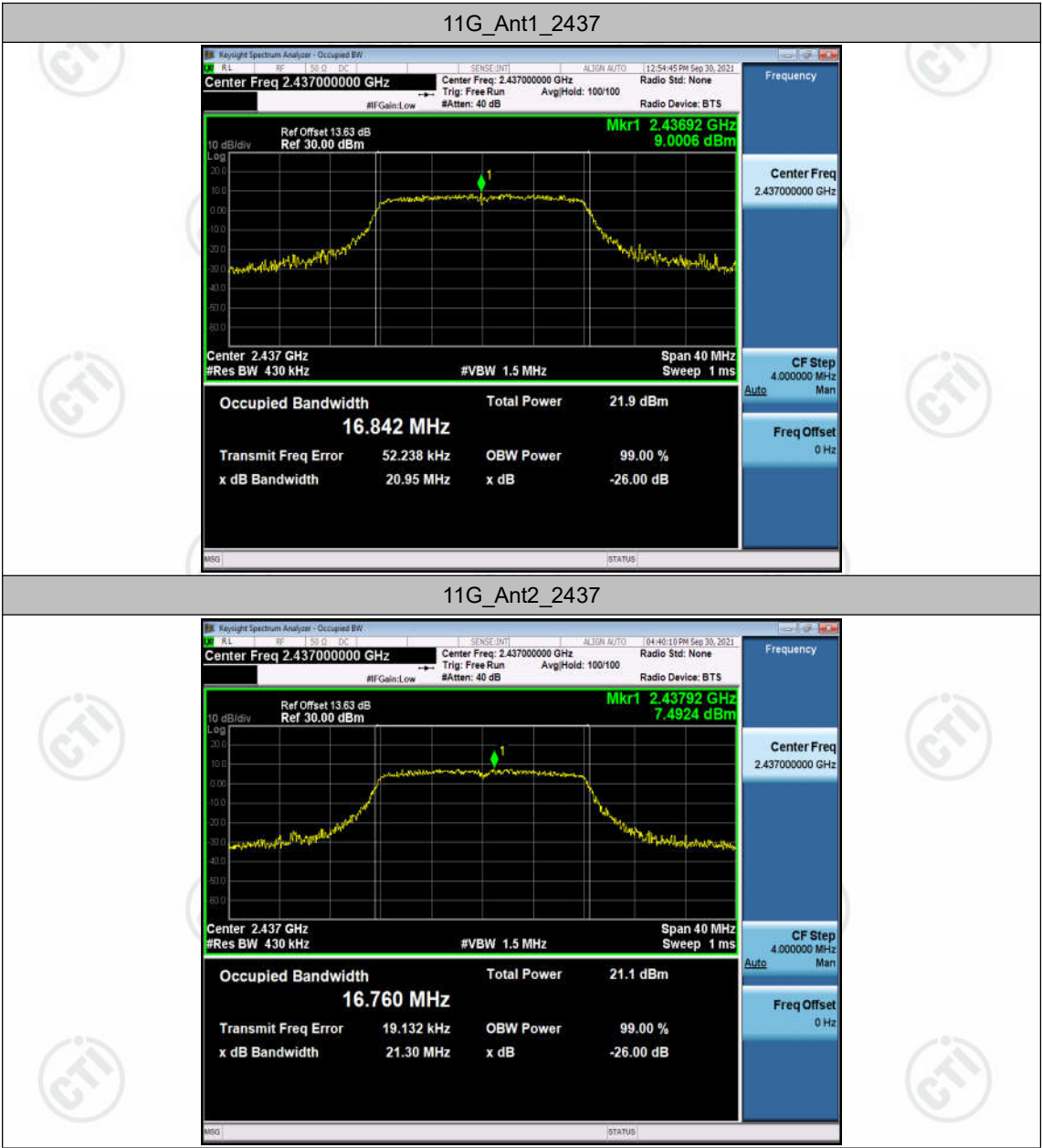
Test Graphs

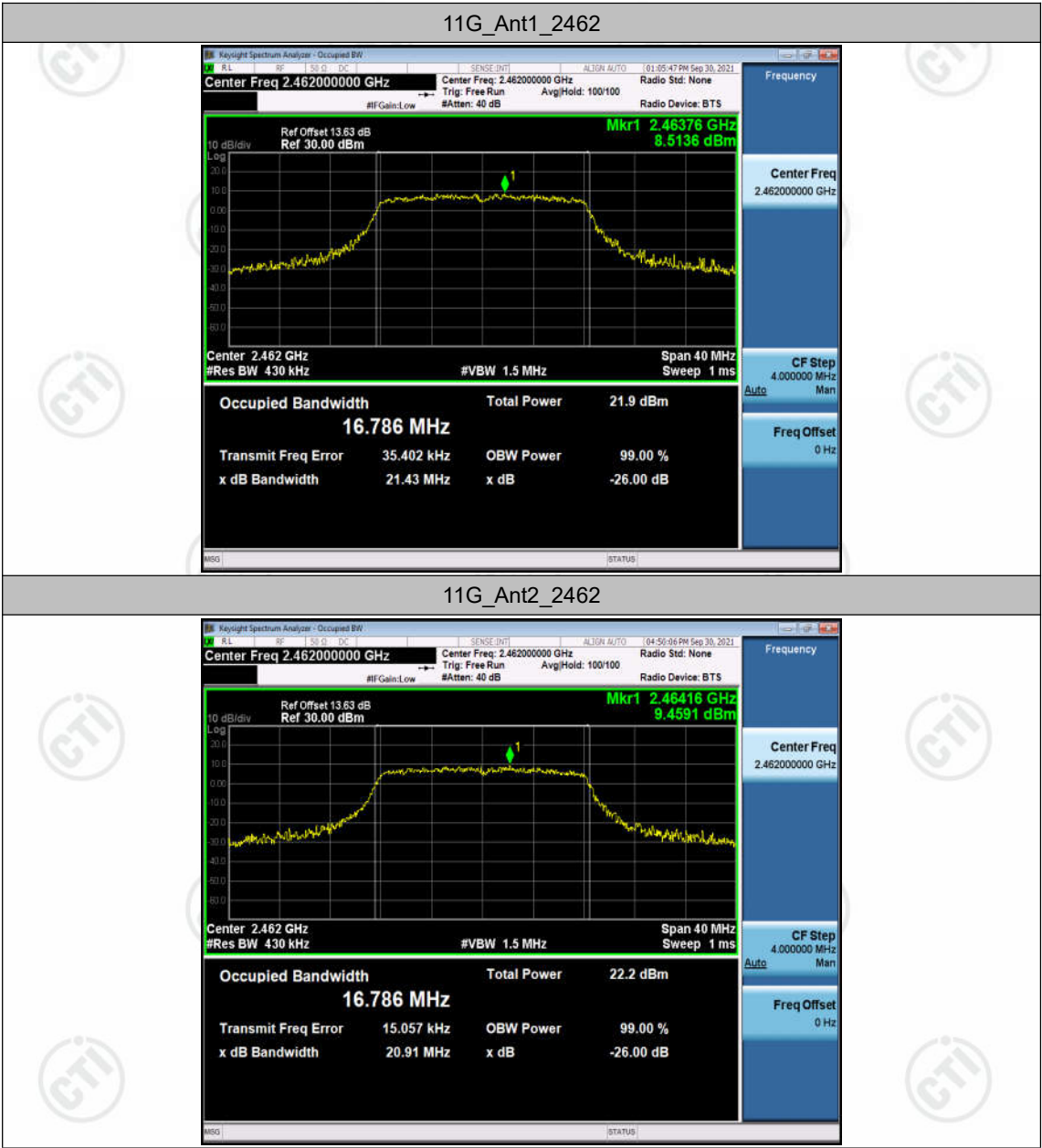


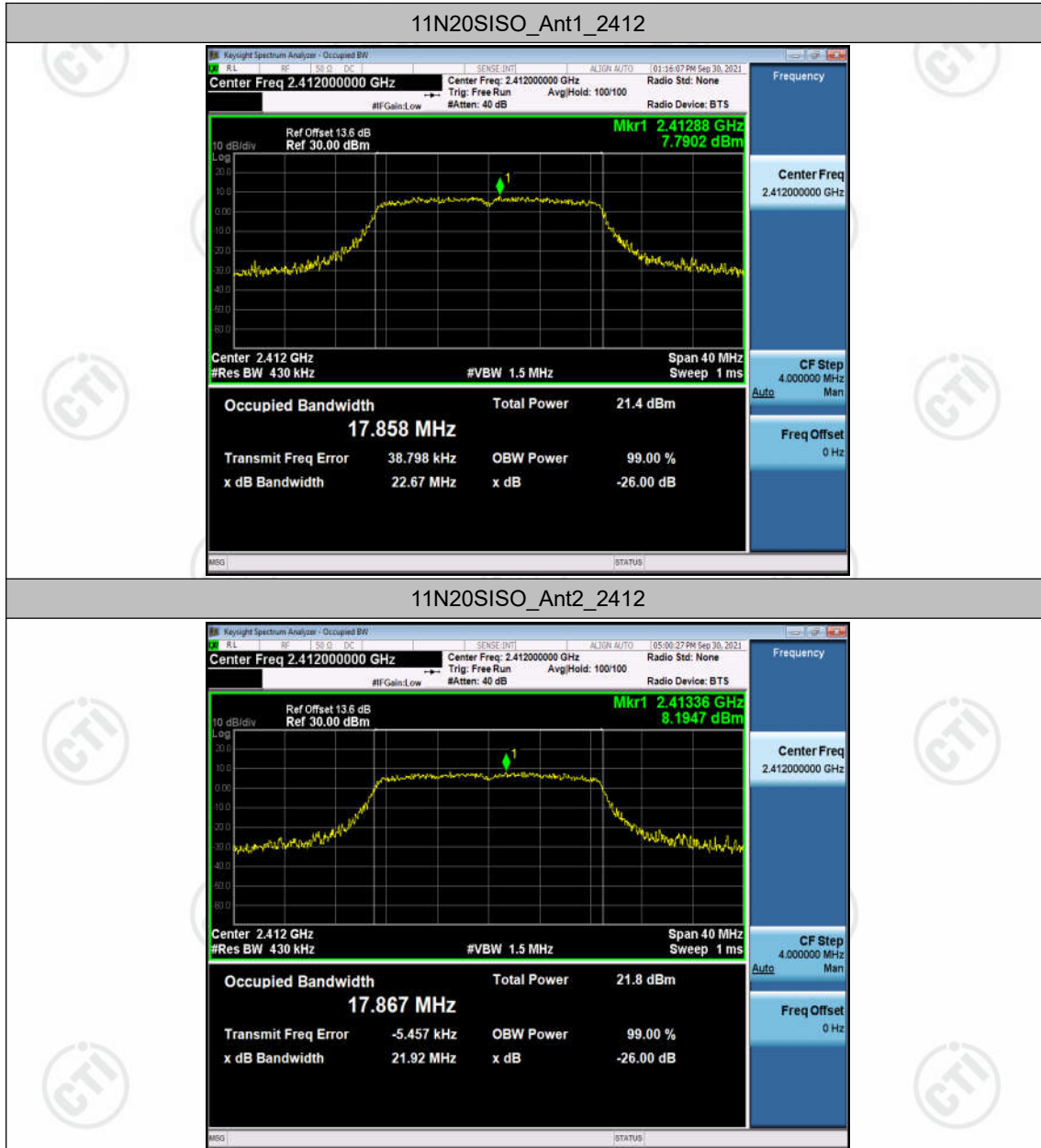


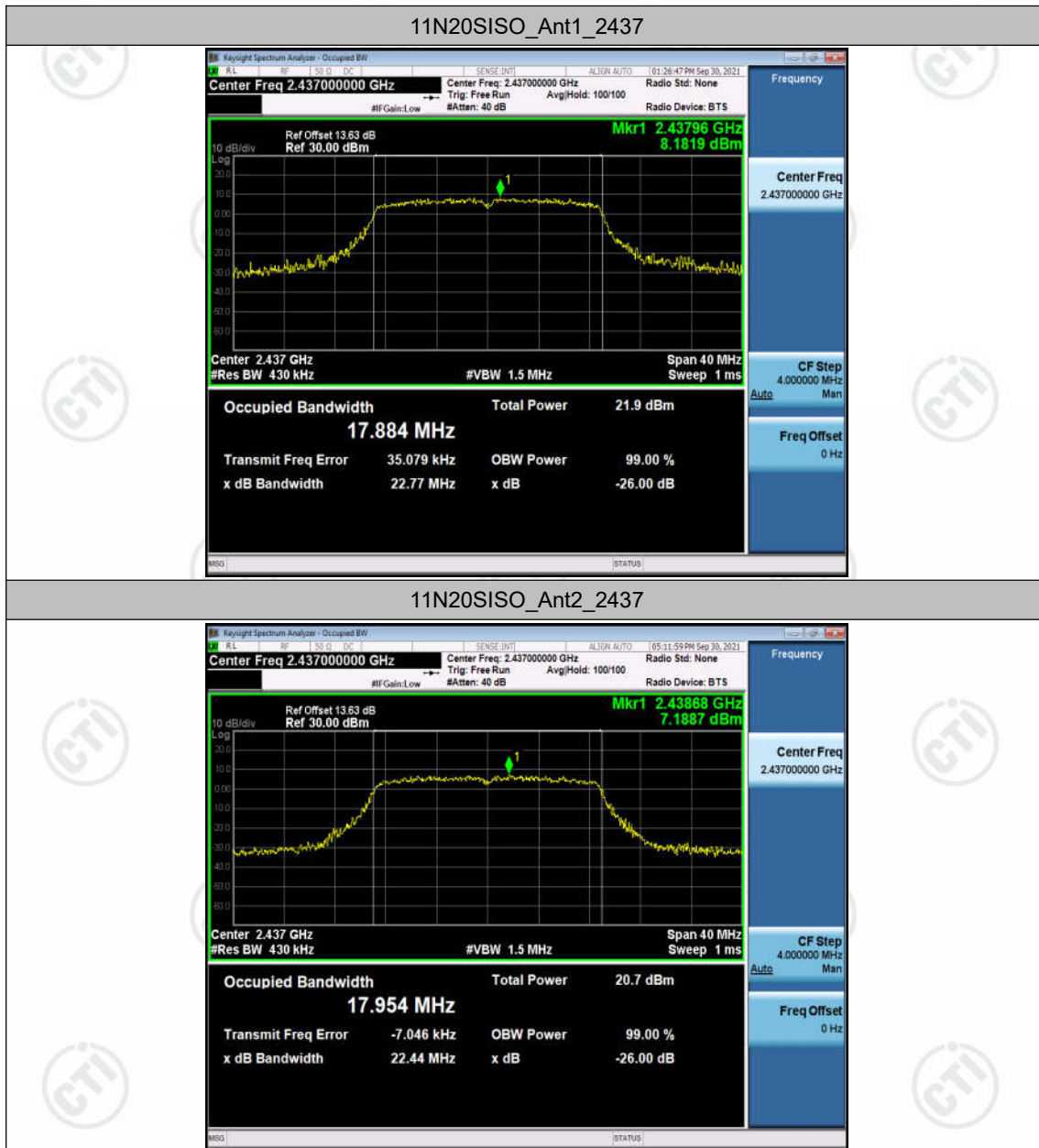


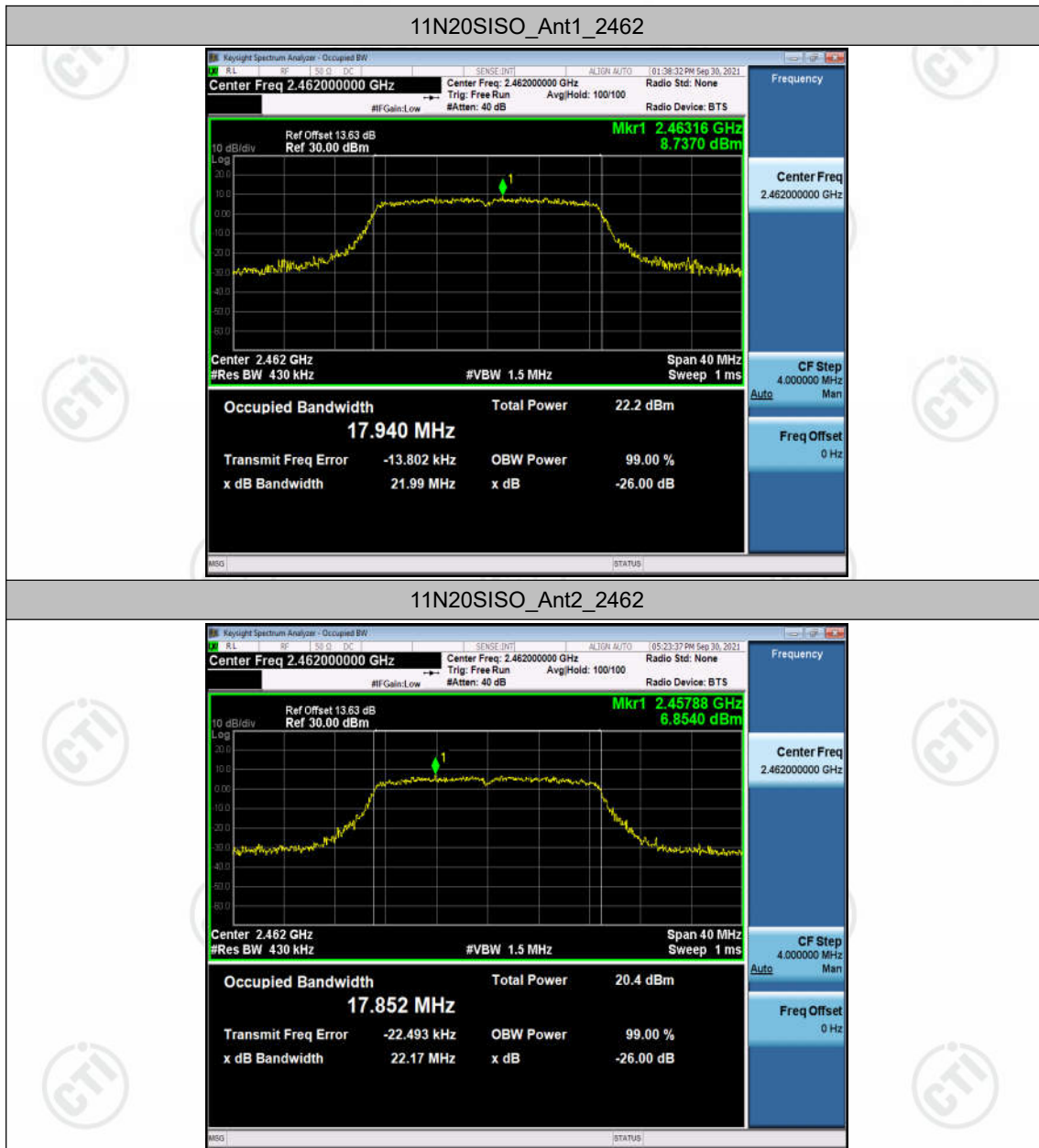


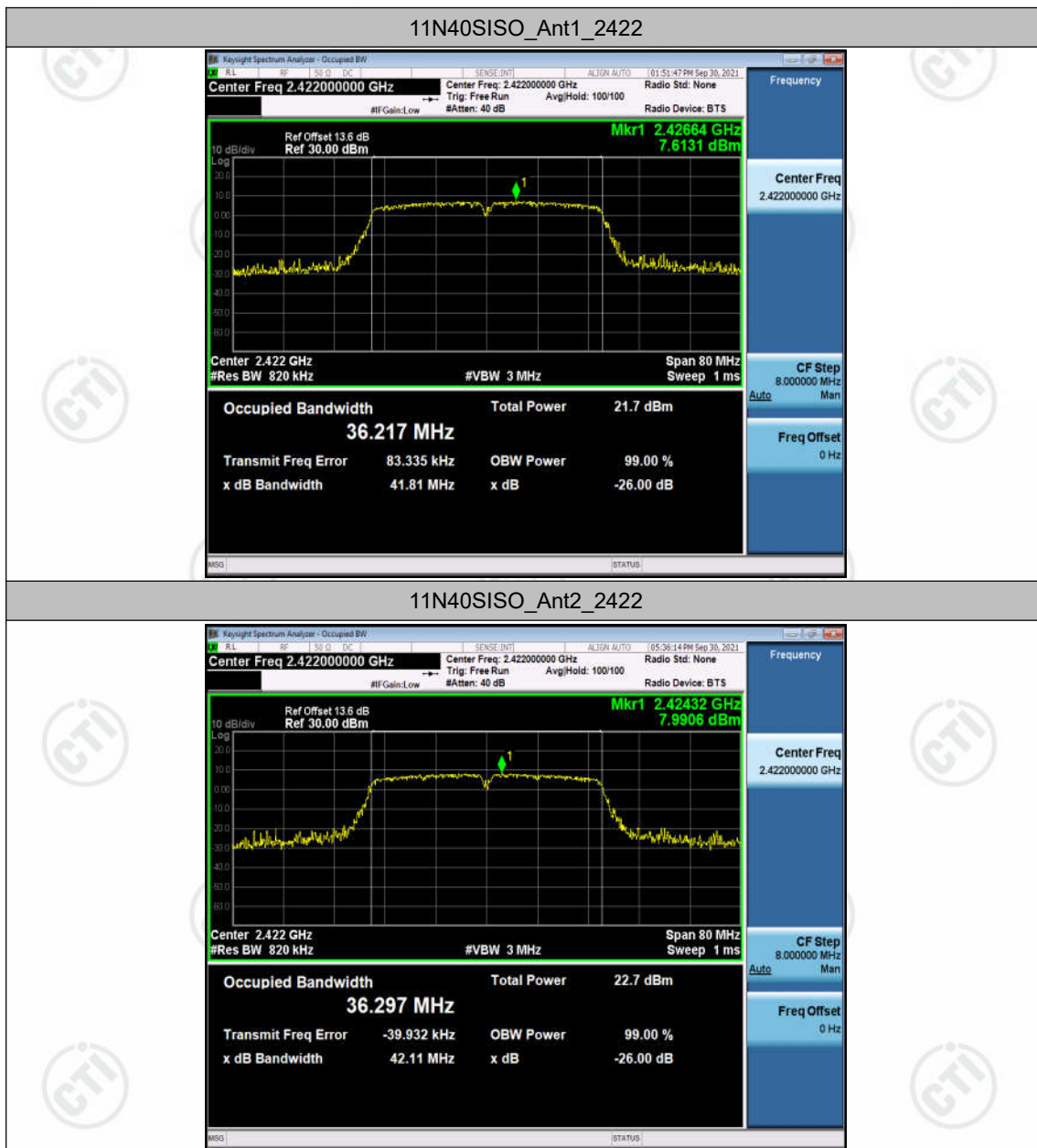


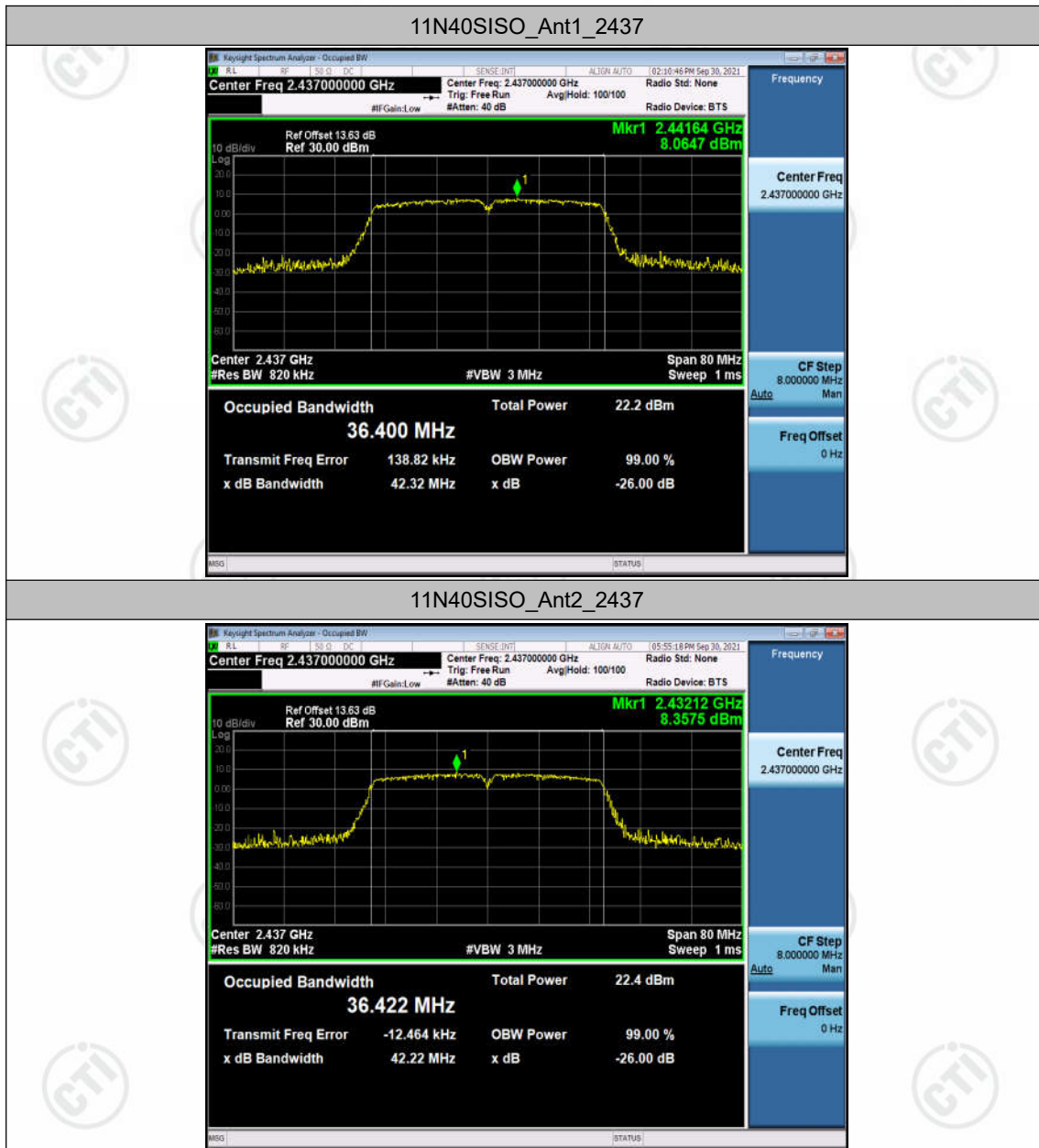


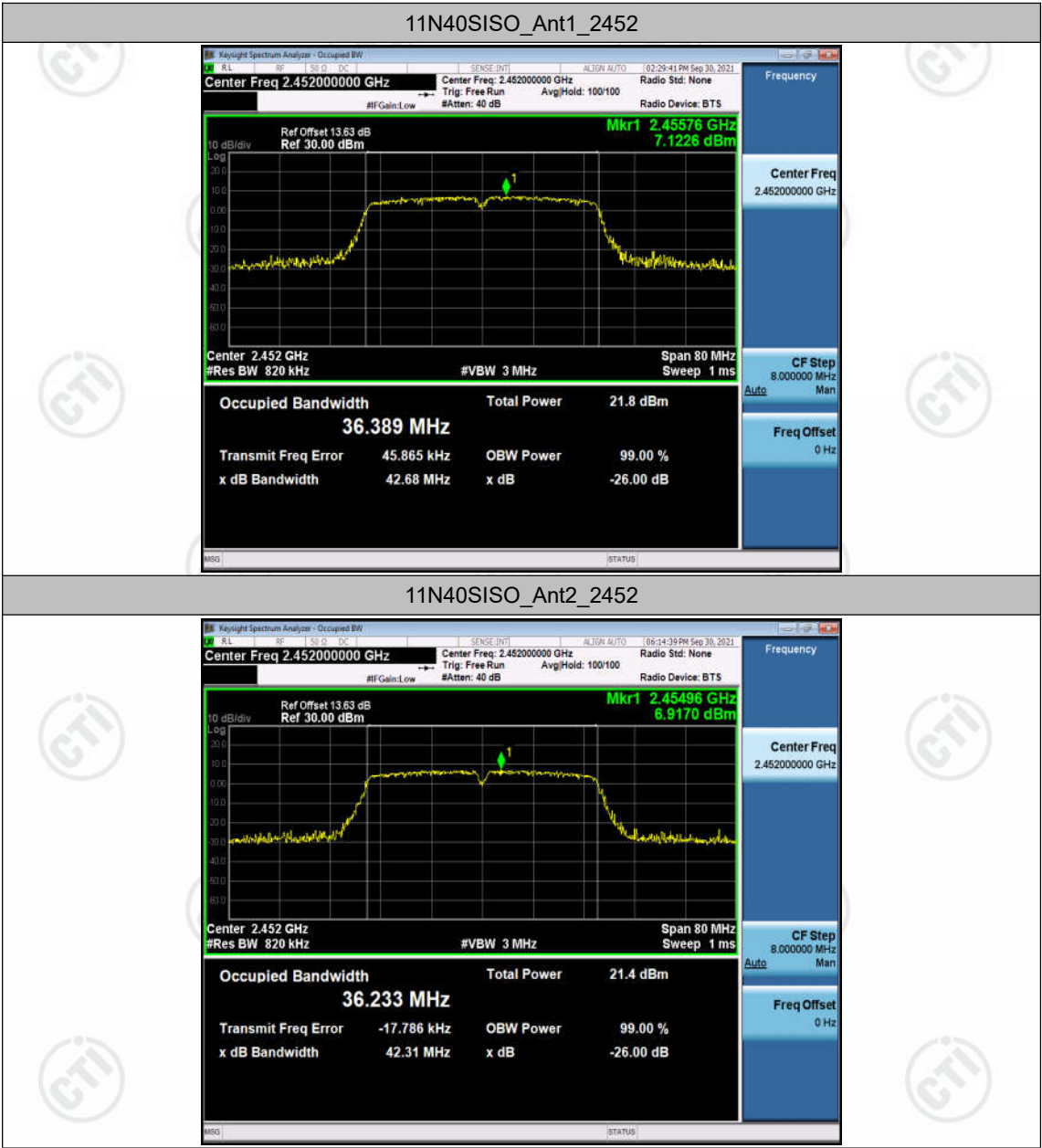












AppendixC: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	15.23	<=30	PASS
	Ant2	2412	15.72	<=30	PASS
	Ant1	2437	15.95	<=30	PASS
	Ant2	2437	15.93	<=30	PASS
	Ant1	2462	15.96	<=30	PASS
	Ant2	2462	15.72	<=30	PASS
11G	Ant1	2412	15.44	<=30	PASS
	Ant2	2412	15.43	<=30	PASS
	Ant1	2437	15.83	<=30	PASS
	Ant2	2437	15.24	<=30	PASS
	Ant1	2462	15.83	<=30	PASS
	Ant2	2462	15.77	<=30	PASS
11N20SISO	Ant1	2412	15.40	<=30	PASS
	Ant2	2412	15.92	<=30	PASS
	Ant1	2437	15.79	<=30	PASS
	Ant2	2437	15.55	<=30	PASS
	Ant1	2462	15.13	<=30	PASS
	Ant2	2462	15.36	<=30	PASS
11N40SISO	Ant1	2422	15.05	<=30	PASS
	Ant2	2422	15.89	<=30	PASS
	Ant1	2437	15.41	<=30	PASS
	Ant2	2437	15.67	<=30	PASS
	Ant1	2452	15.33	<=30	PASS
	Ant2	2452	15.66	<=30	PASS
11N20MIMO	Ant1	2412	9.62	<=30	PASS
	Ant2	2412	9.10	<=30	PASS
	total	2412	12.4	<=28.91	PASS
	Ant1	2437	9.99	<=30	PASS
	Ant2	2437	8.92	<=30	PASS
	total	2437	12.5	<=28.91	PASS
	Ant1	2462	9.82	<=30	PASS
	Ant2	2462	8.53	<=30	PASS
	total	2462	12.2	<=28.91	PASS
11N40MIMO	Ant1	2422	10.15	<=30	PASS

	Ant2	2422	9.60	<=30	PASS
	total	2422	12.9	<=28.91	PASS
	Ant1	2437	10.55	<=30	PASS
	Ant2	2437	10.92	<=30	PASS
	total	2437	13.7	<=28.91	PASS
	Ant1	2452	10.74	<=30	PASS
	Ant2	2452	10.26	<=30	PASS
	total	2452	13.5	<=28.91	PASS

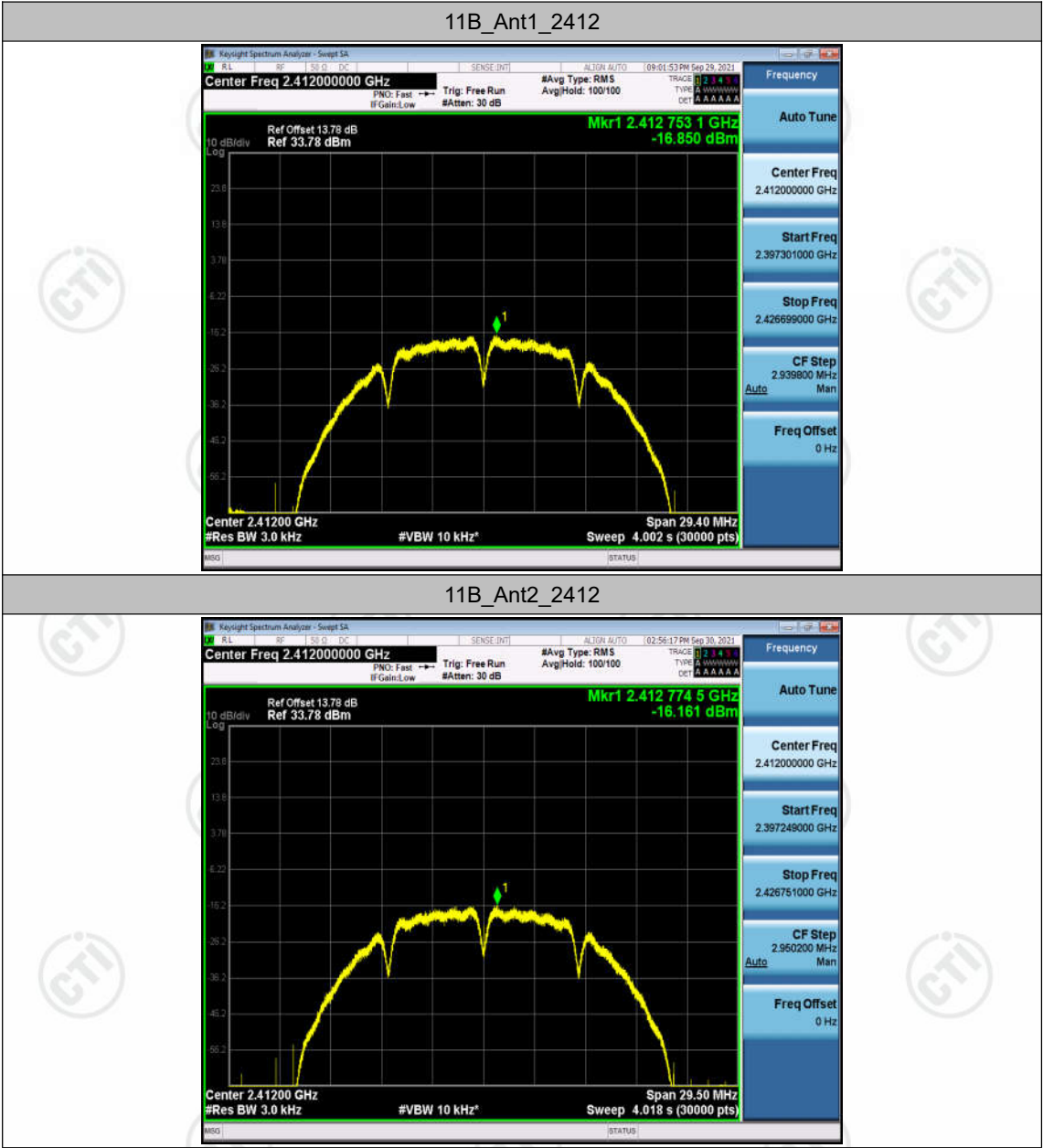
AppendixD: Maximum power spectral density

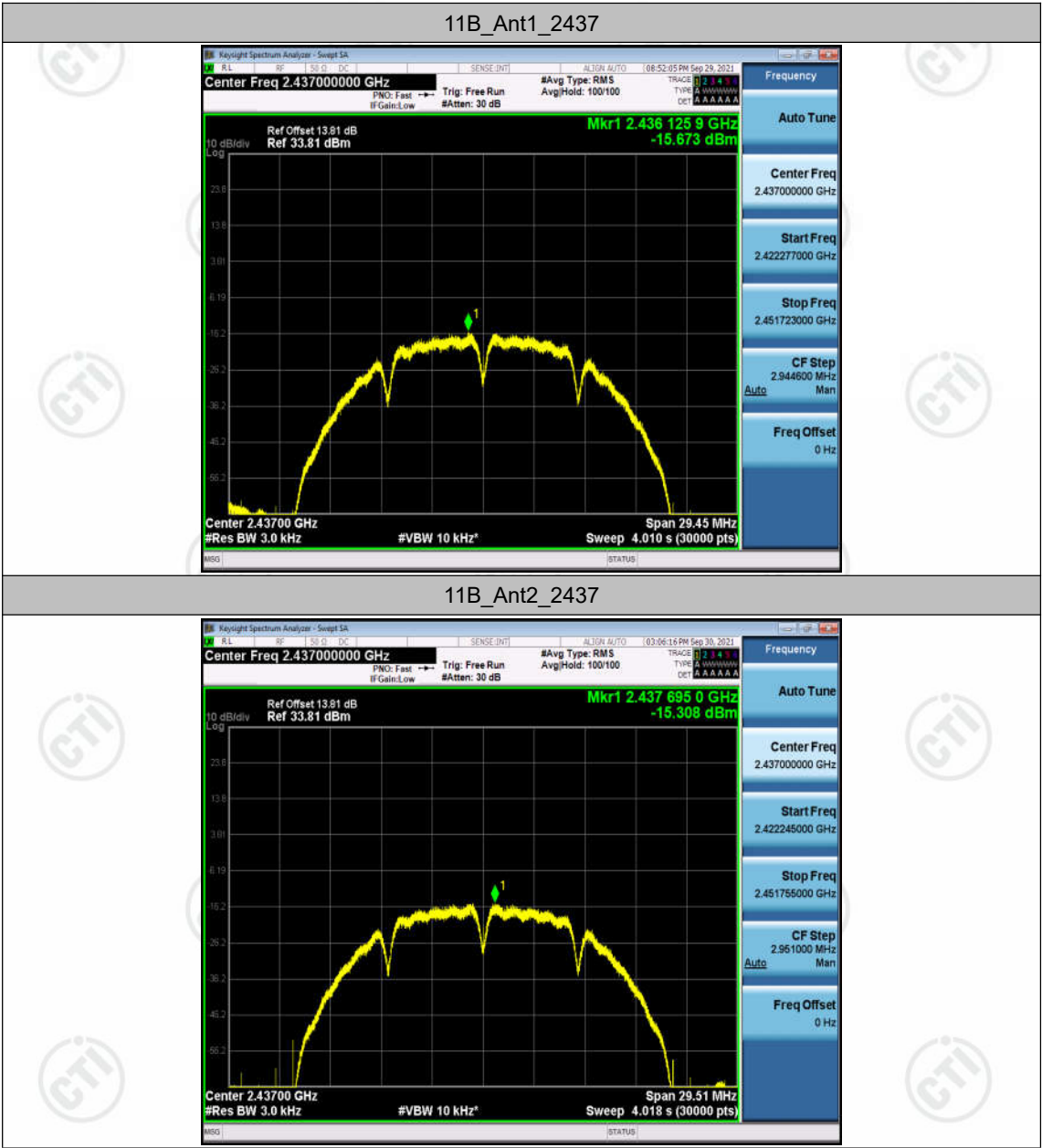
Test Result

Test Mode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-16.85	≤ 8	PASS
	Ant2	2412	-16.16	≤ 8	PASS
	Ant1	2437	-15.67	≤ 8	PASS
	Ant2	2437	-15.31	≤ 8	PASS
	Ant1	2462	-16.06	≤ 8	PASS
	Ant2	2462	-15.03	≤ 8	PASS
11G	Ant1	2412	-15.62	≤ 8	PASS
	Ant2	2412	-15.67	≤ 8	PASS
	Ant1	2437	-15.67	≤ 8	PASS
	Ant2	2437	-16.47	≤ 8	PASS
	Ant1	2462	-15.29	≤ 8	PASS
	Ant2	2462	-14.39	≤ 8	PASS
11N20SISO	Ant1	2412	-15.06	≤ 8	PASS
	Ant2	2412	-15.35	≤ 8	PASS
	Ant1	2437	-15.3	≤ 8	PASS
	Ant2	2437	-16.37	≤ 8	PASS
	Ant1	2462	-15.52	≤ 8	PASS
	Ant2	2462	-17.08	≤ 8	PASS
11N40SISO	Ant1	2422	-17.73	≤ 8	PASS
	Ant2	2422	-16.58	≤ 8	PASS
	Ant1	2437	-17.09	≤ 8	PASS
	Ant2	2437	-16.83	≤ 8	PASS
	Ant1	2452	-17.47	≤ 8	PASS
	Ant2	2452	-17.87	≤ 8	PASS
11N20MIMO	Ant1	2412	-21.06	≤ 8	PASS
	Ant2	2412	-21.68	≤ 8	PASS
	total	2412	-18.35	≤ 6.91	PASS
	Ant1	2437	-21.49	≤ 8	PASS
	Ant2	2437	-21.96	≤ 8	PASS
	total	2437	-18.71	≤ 6.91	PASS
	Ant1	2462	-21.24	≤ 8	PASS
	Ant2	2462	-23.01	≤ 8	PASS
	total	2462	-19.03	≤ 6.91	PASS
11N40MIMO	Ant1	2422	-22.58	≤ 8	PASS

	Ant2	2422	-23.88	<=8	PASS
	total	2422	-20.17	<=6.91	PASS
	Ant1	2437	-22.46	<=8	PASS
	Ant2	2437	-21.51	<=8	PASS
	total	2437	-18.95	<=6.91	PASS
	Ant1	2452	-21.94	<=8	PASS
	Ant2	2452	-22.63	<=8	PASS
	total	2452	-19.26	<=6.91	PASS

Test Graphs



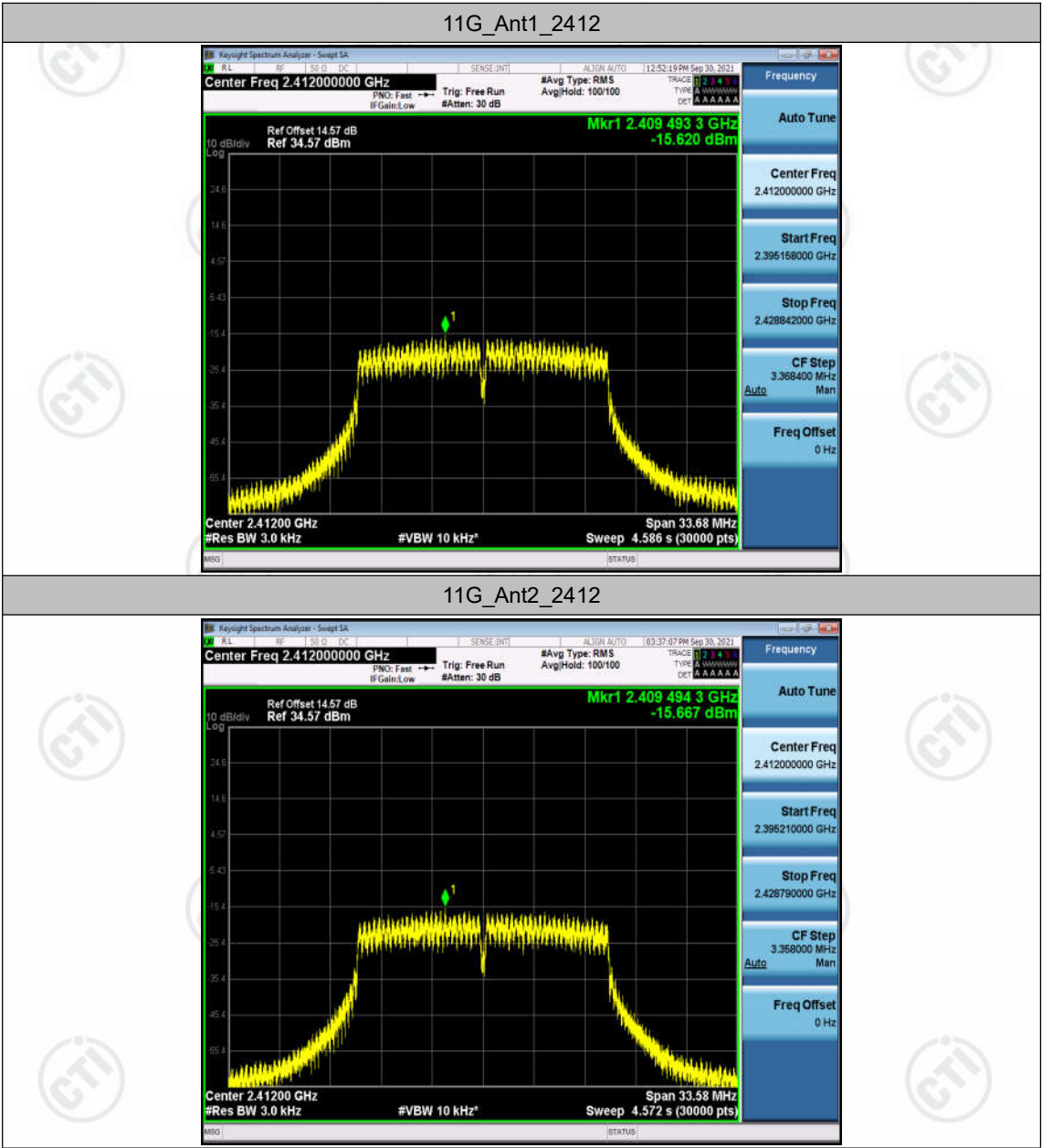


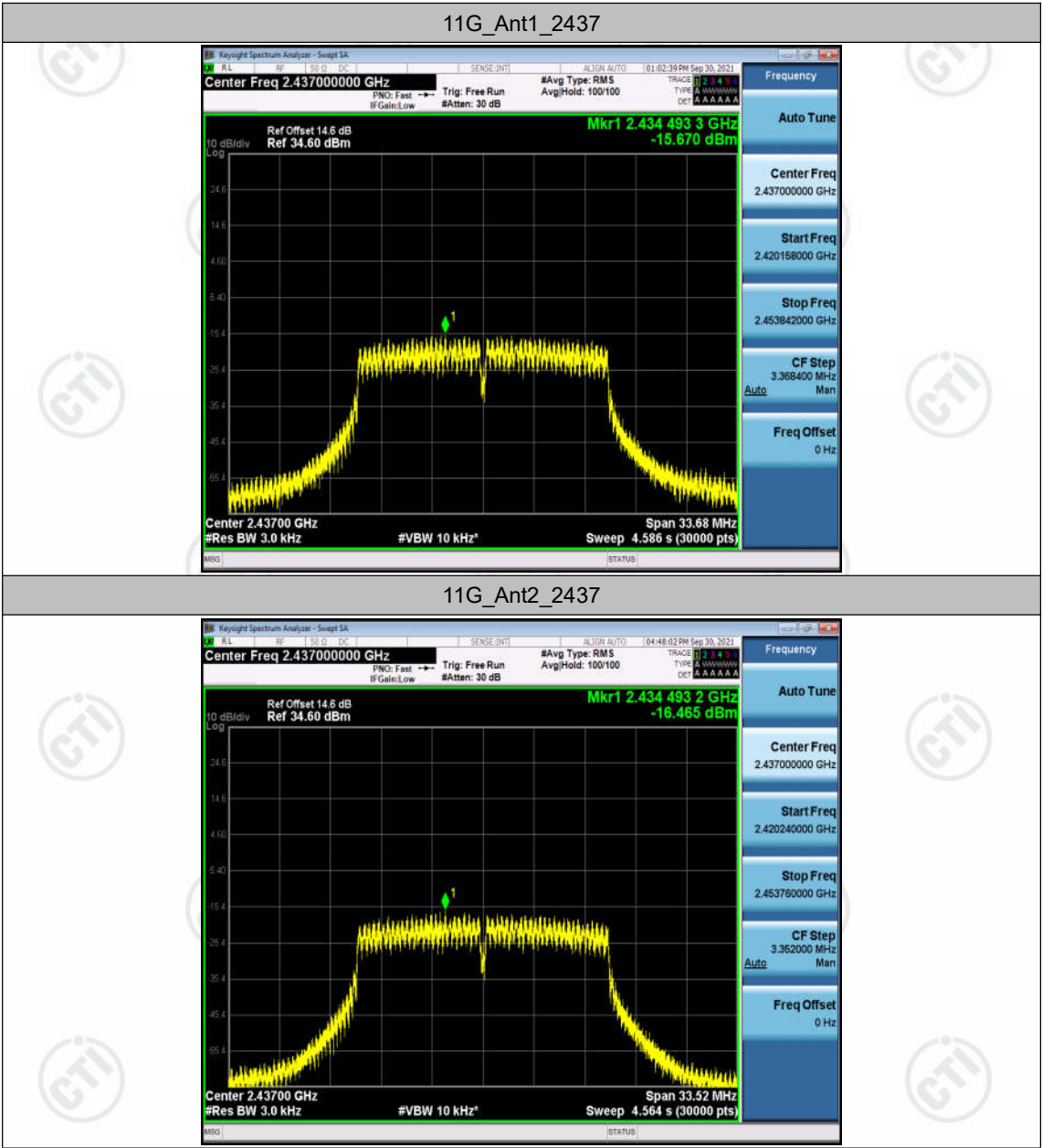
11B_Ant1_2462

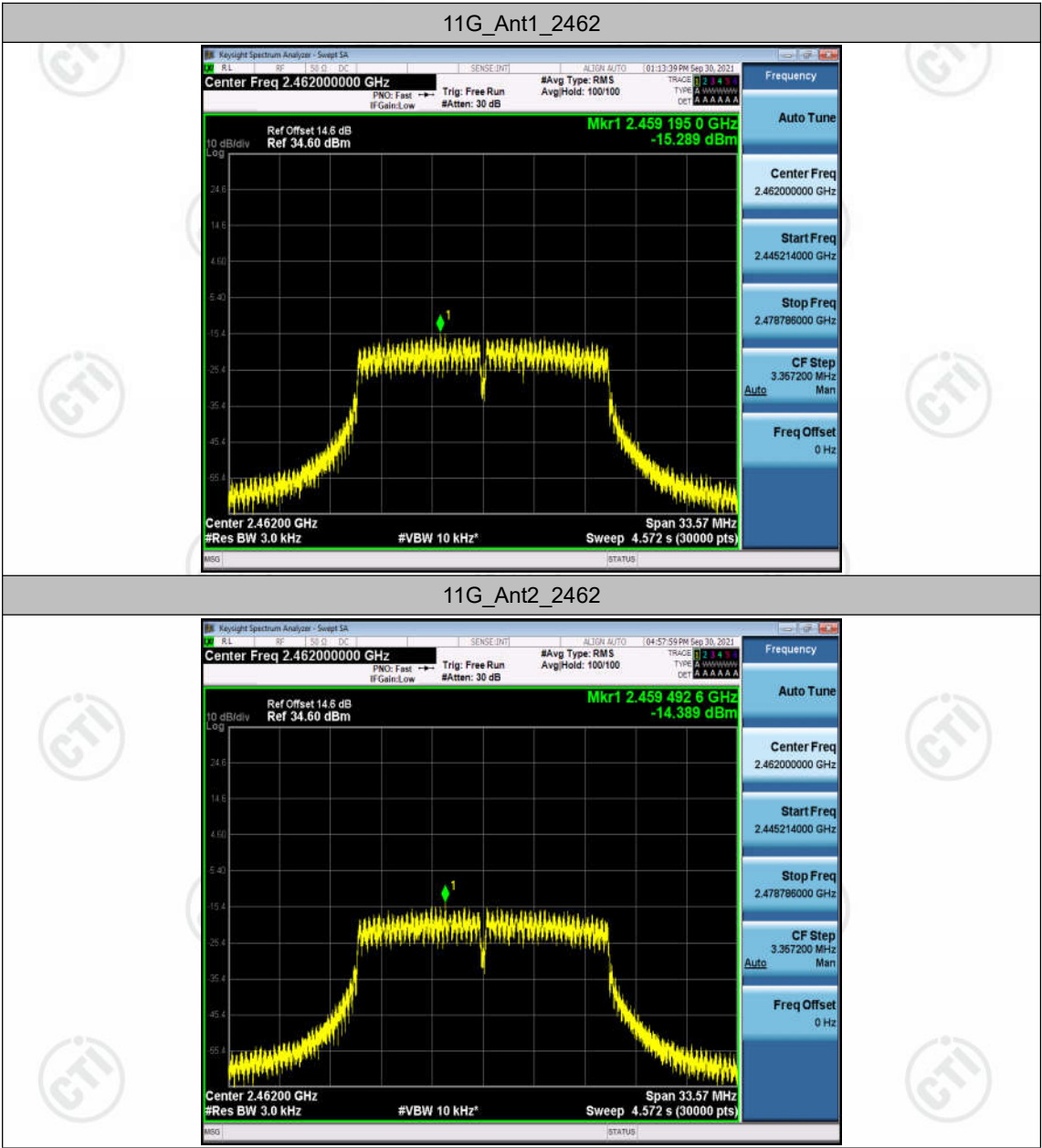


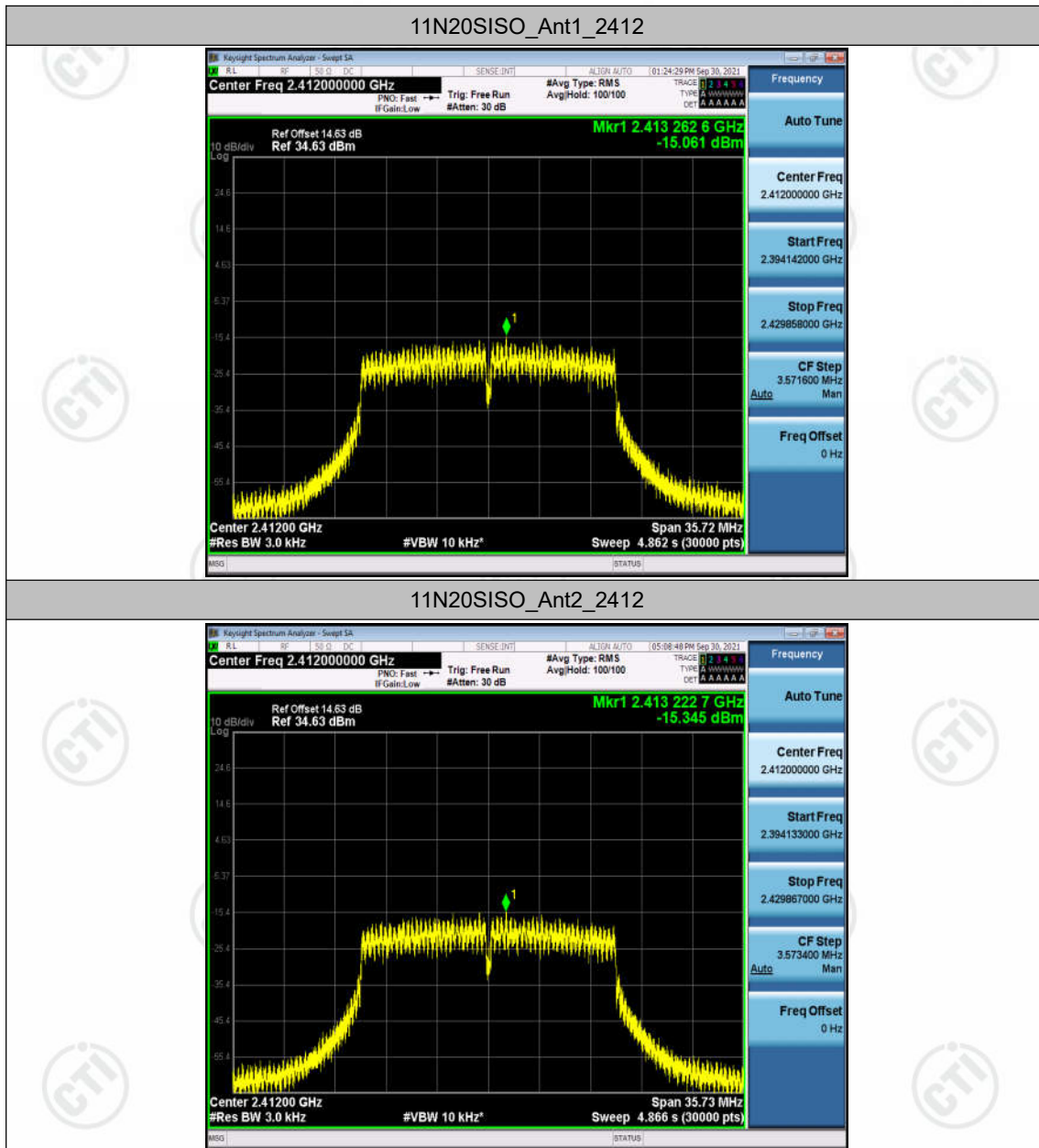
11B_Ant2_2462

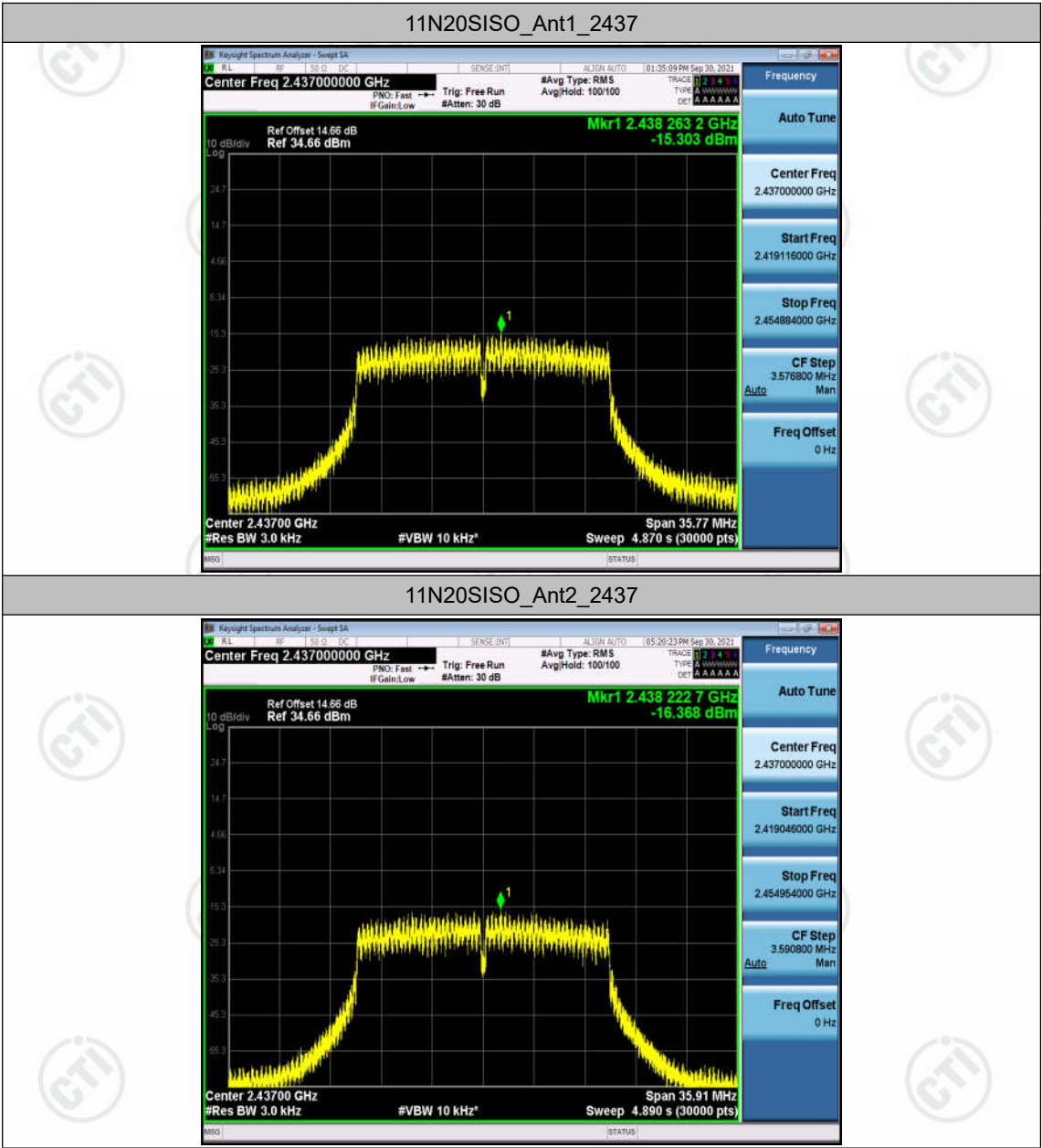


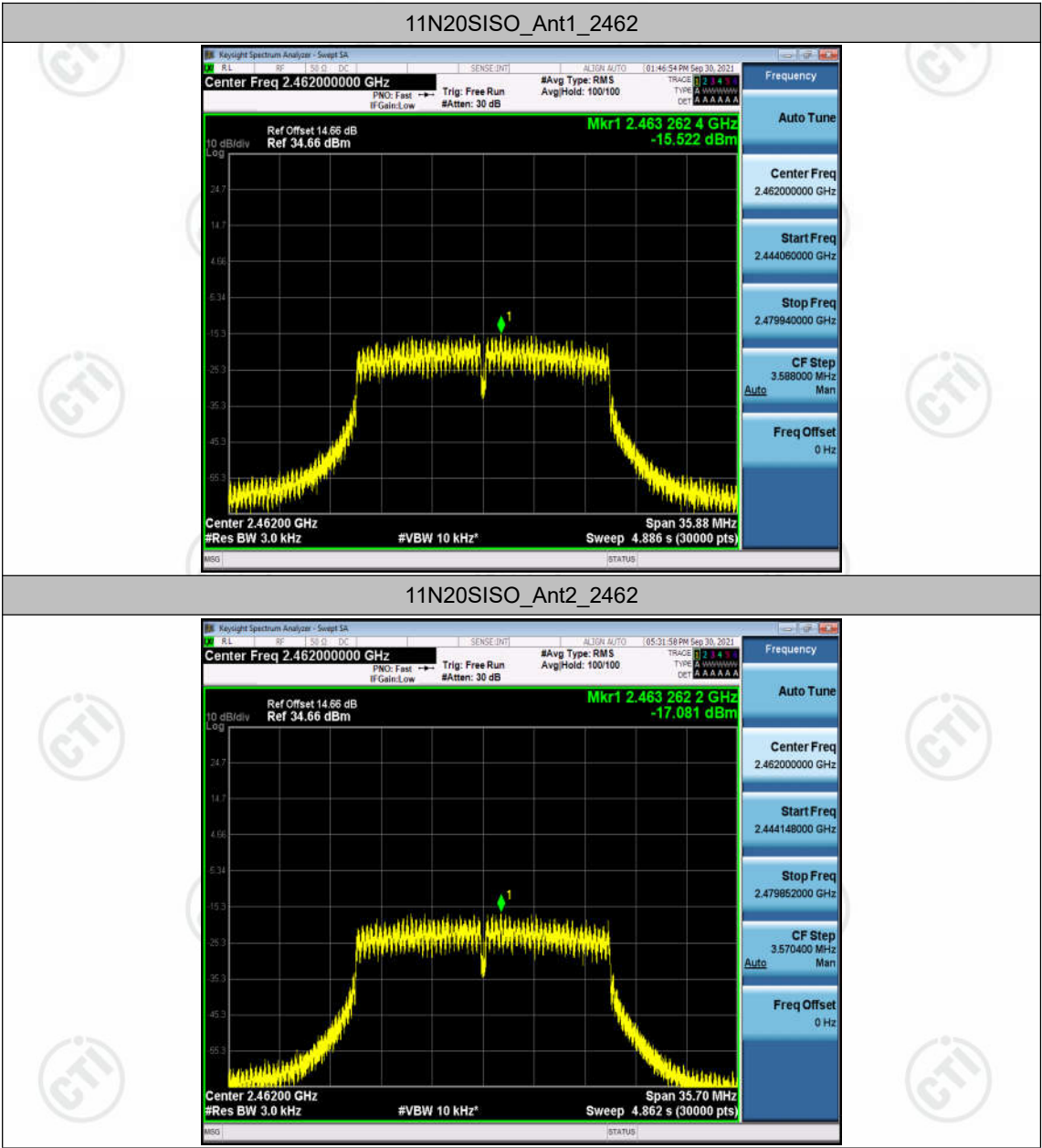


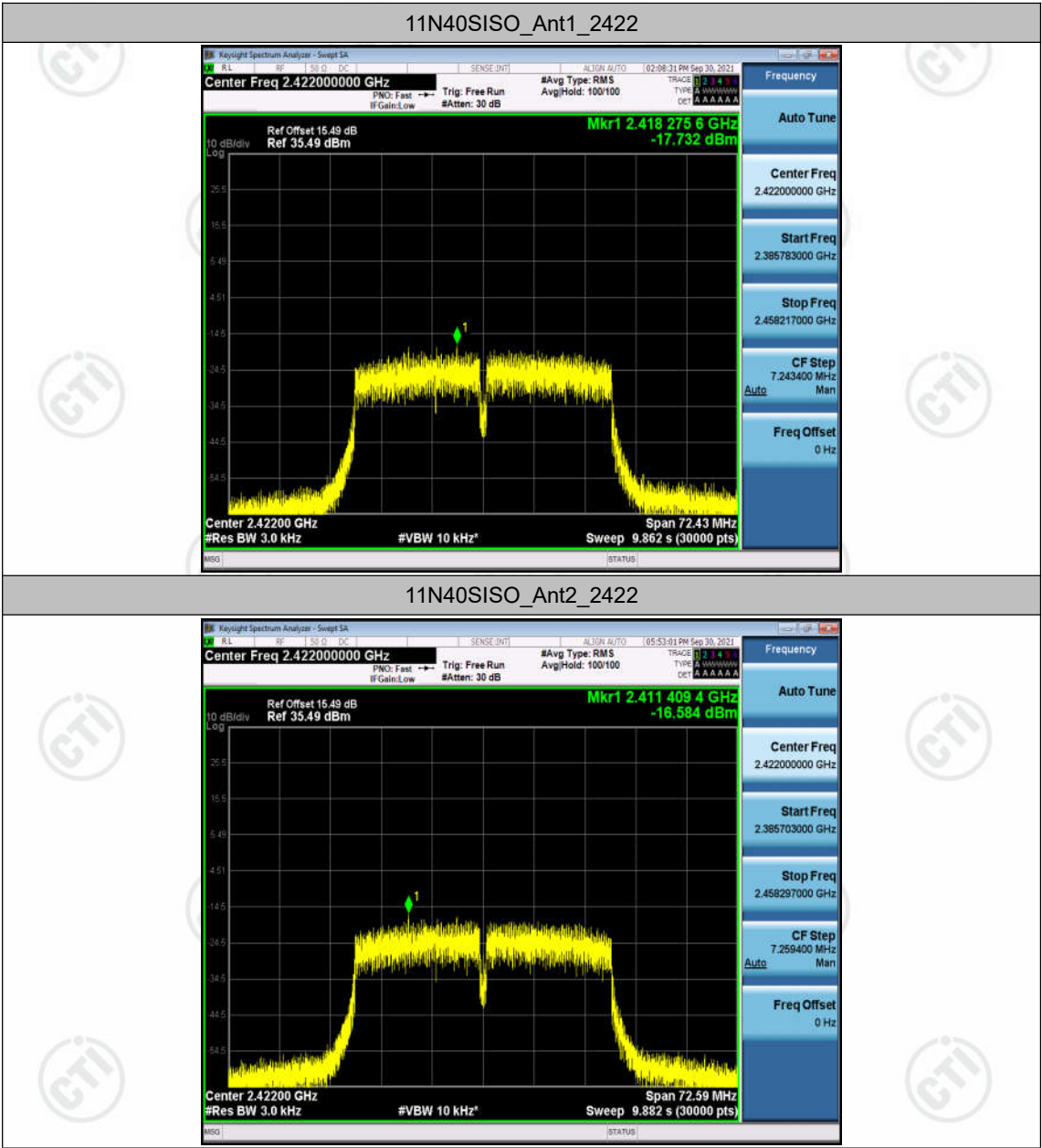


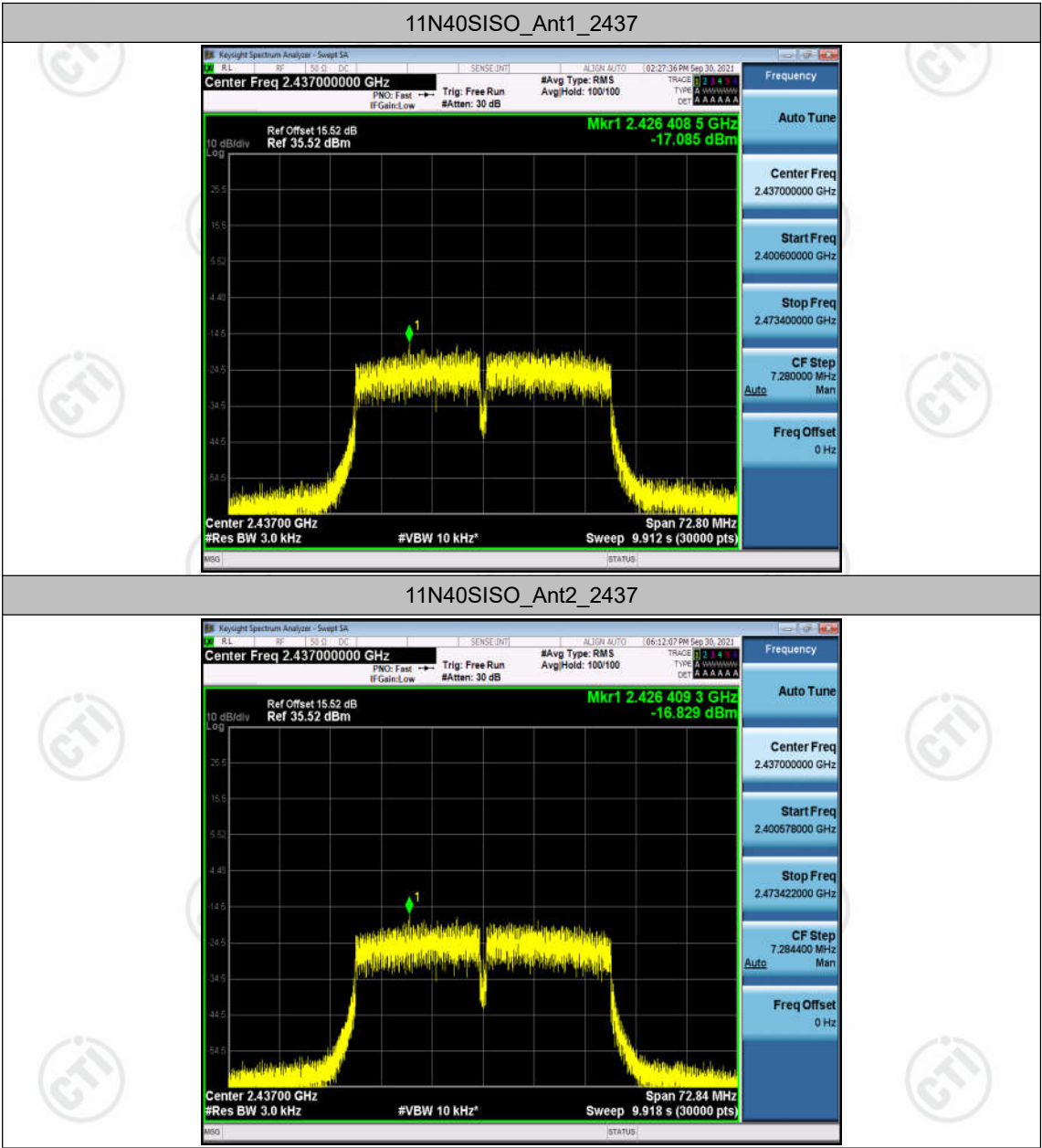


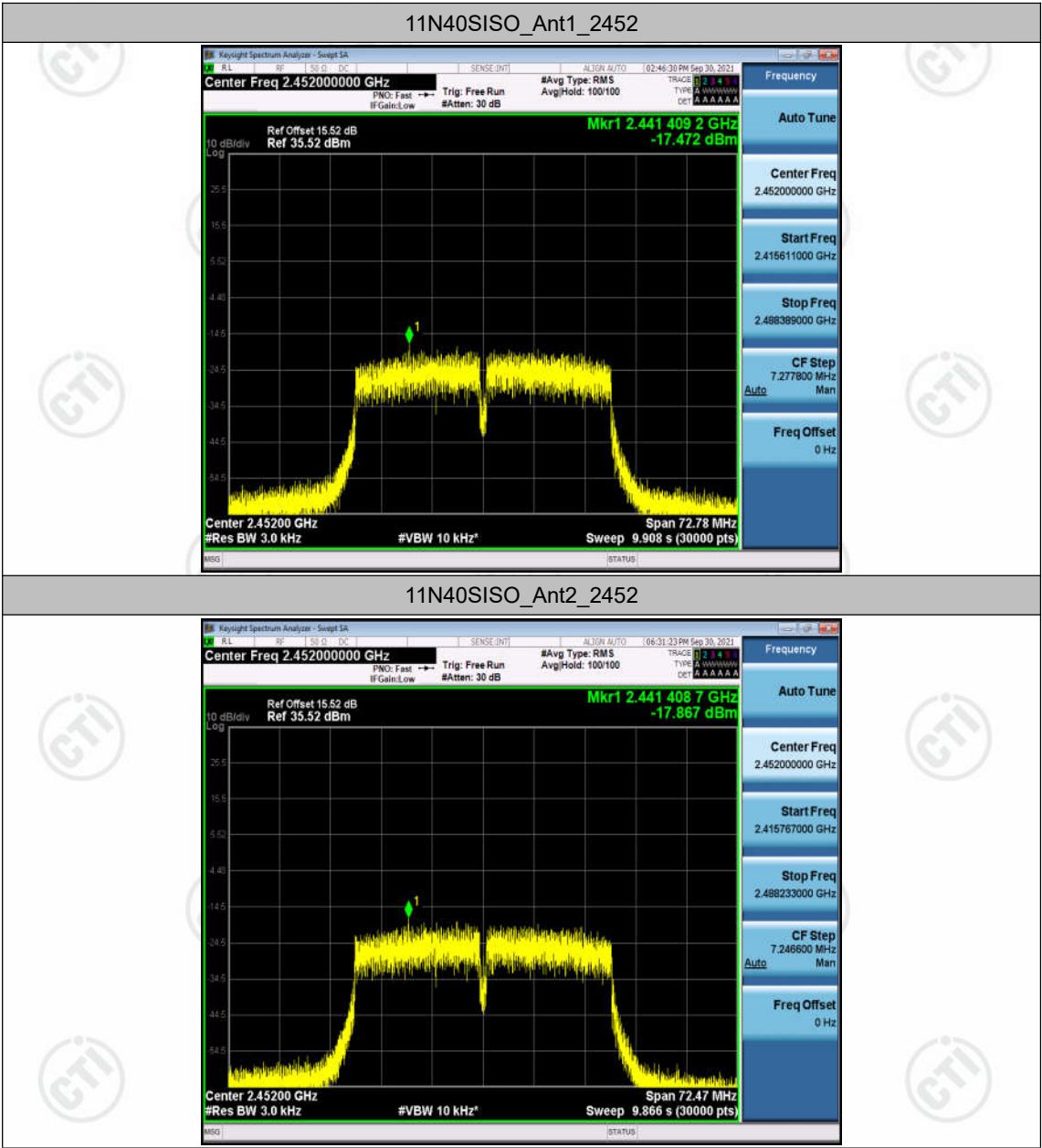


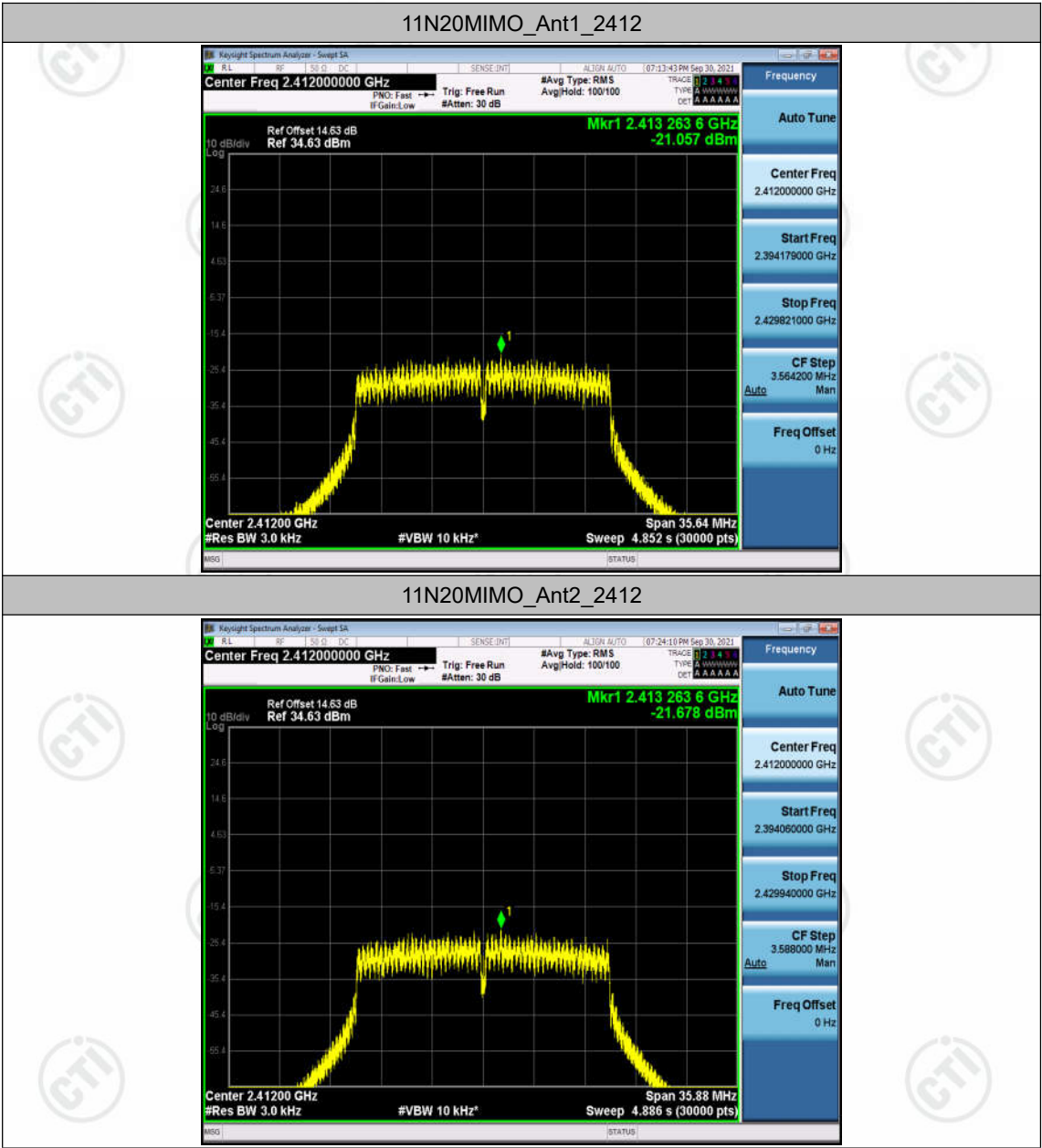


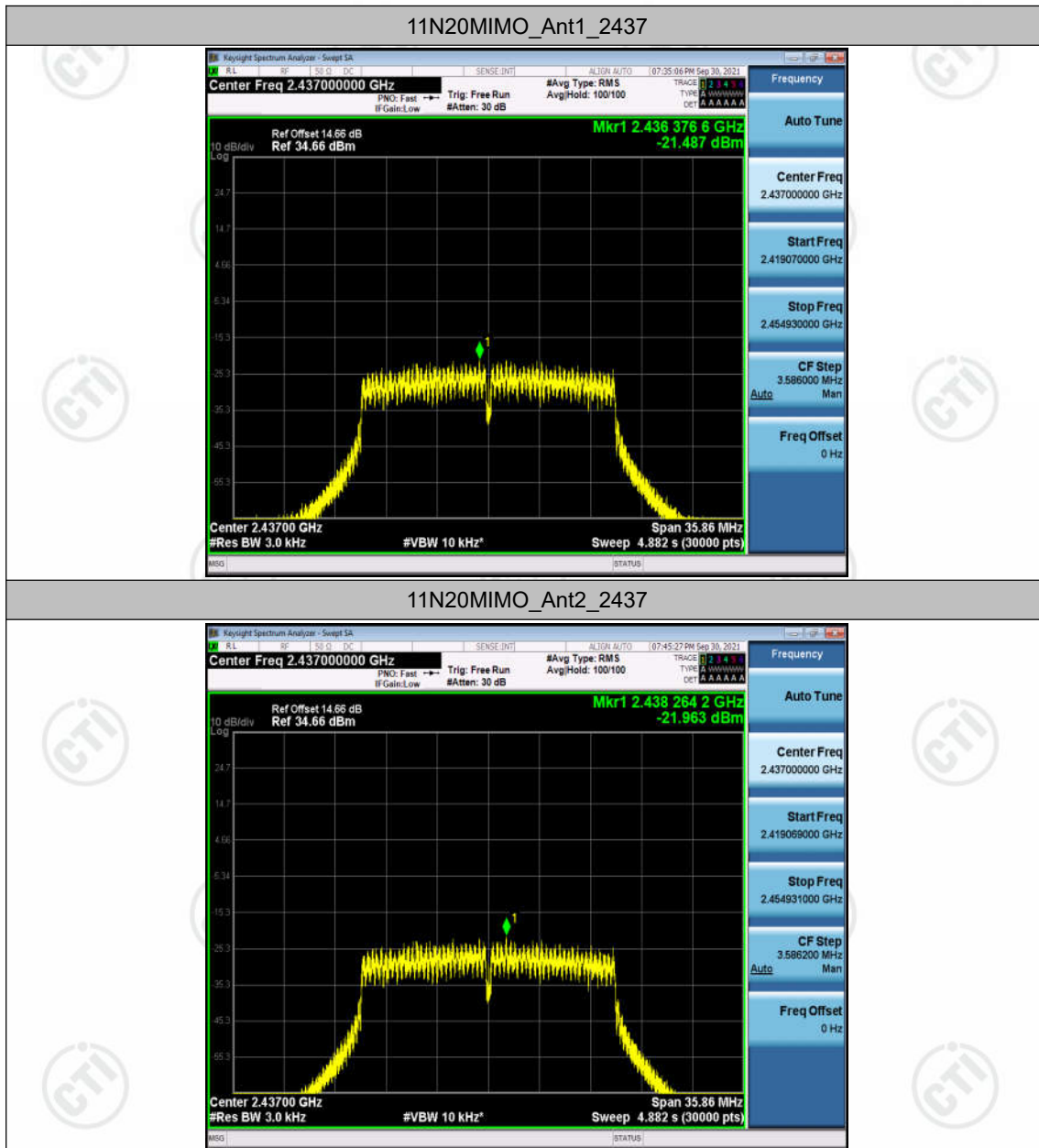


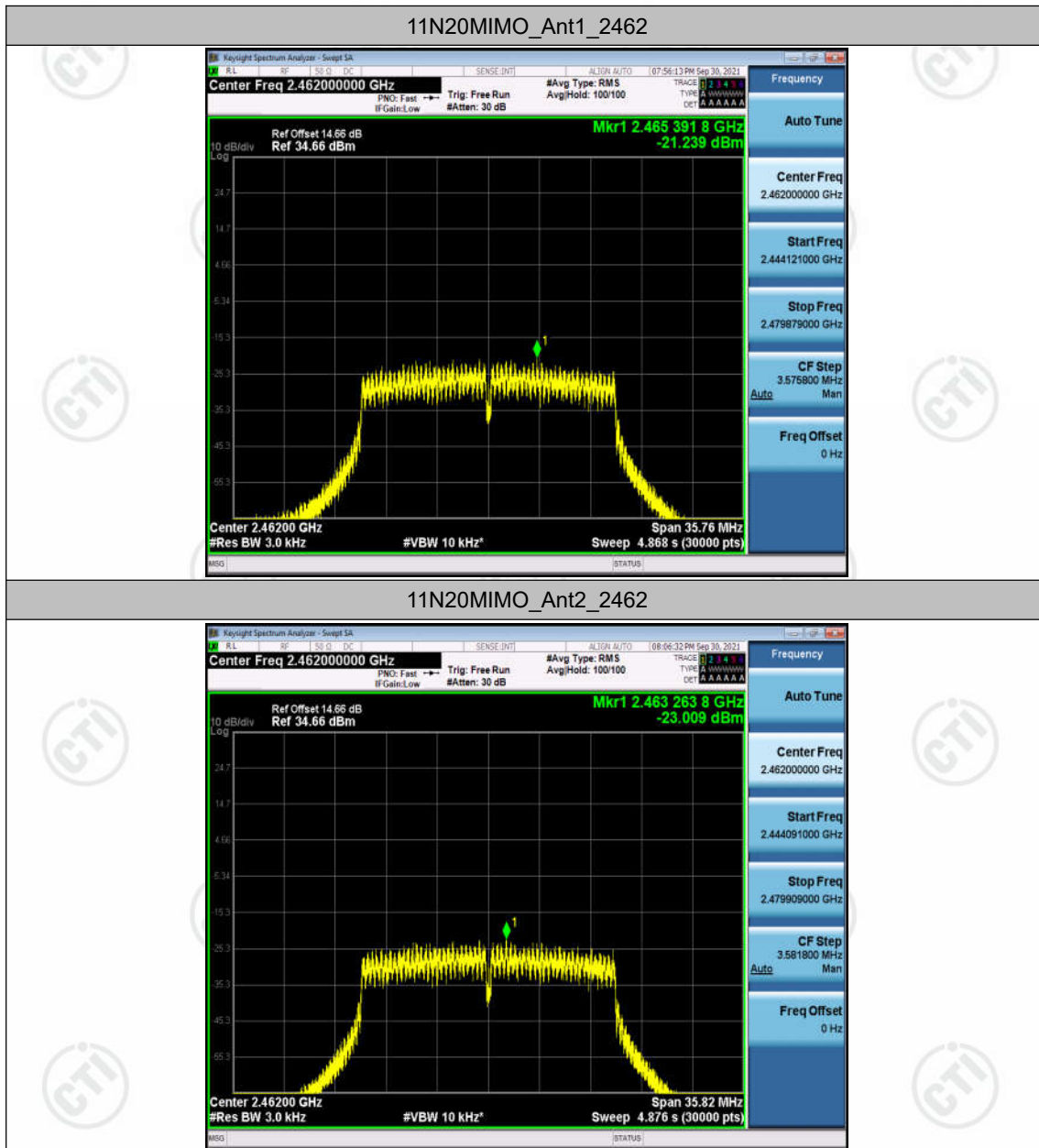


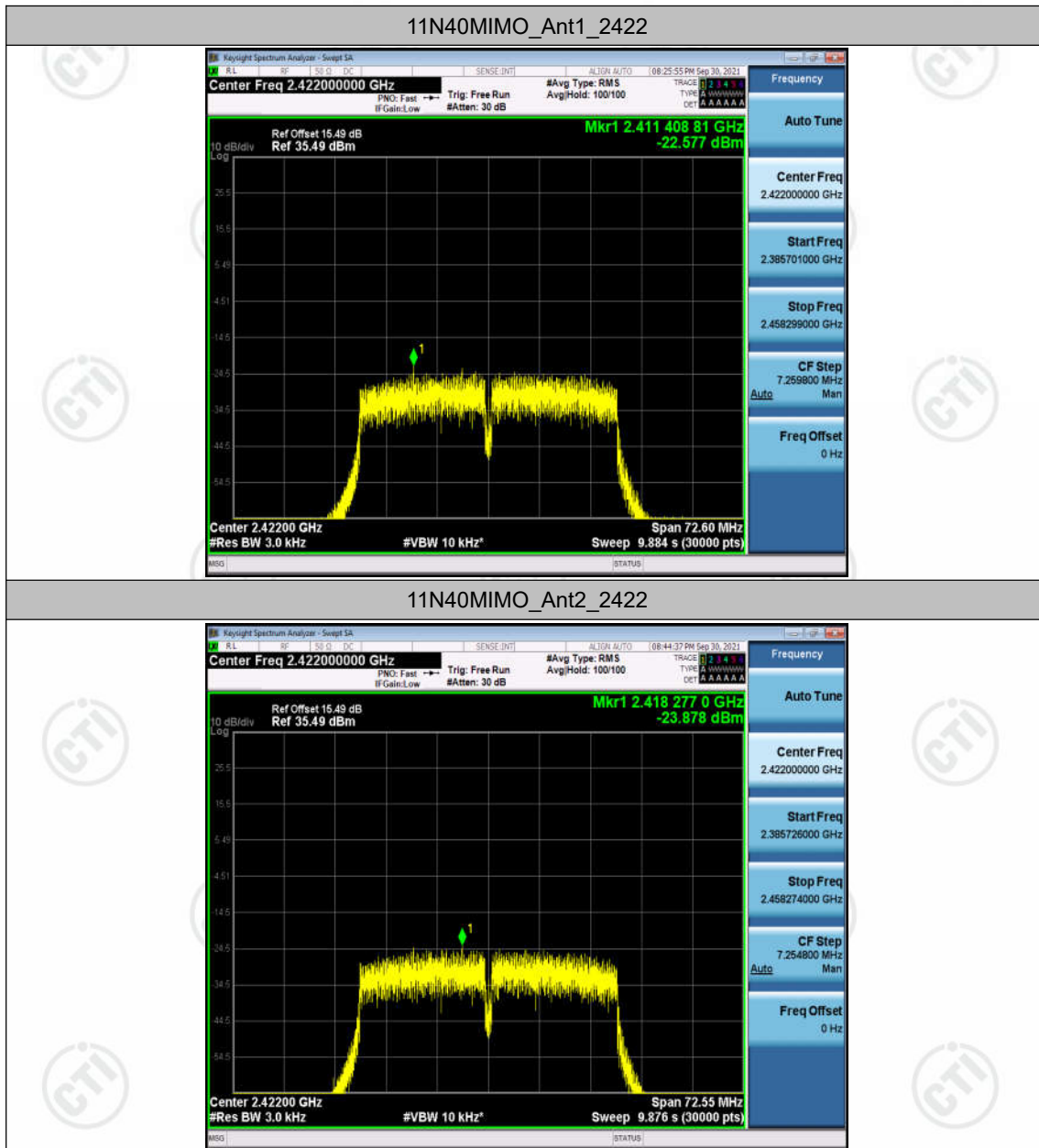


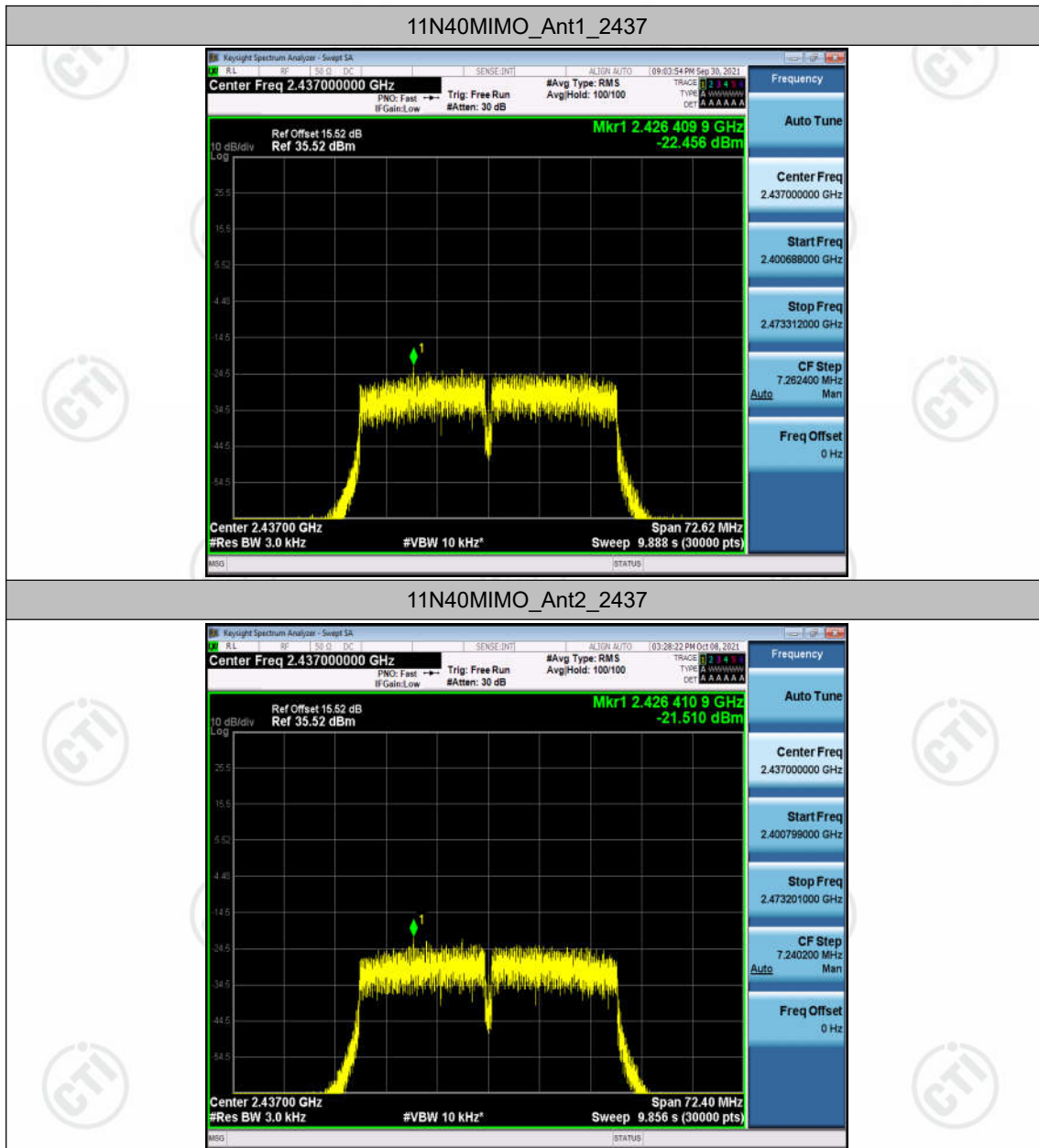


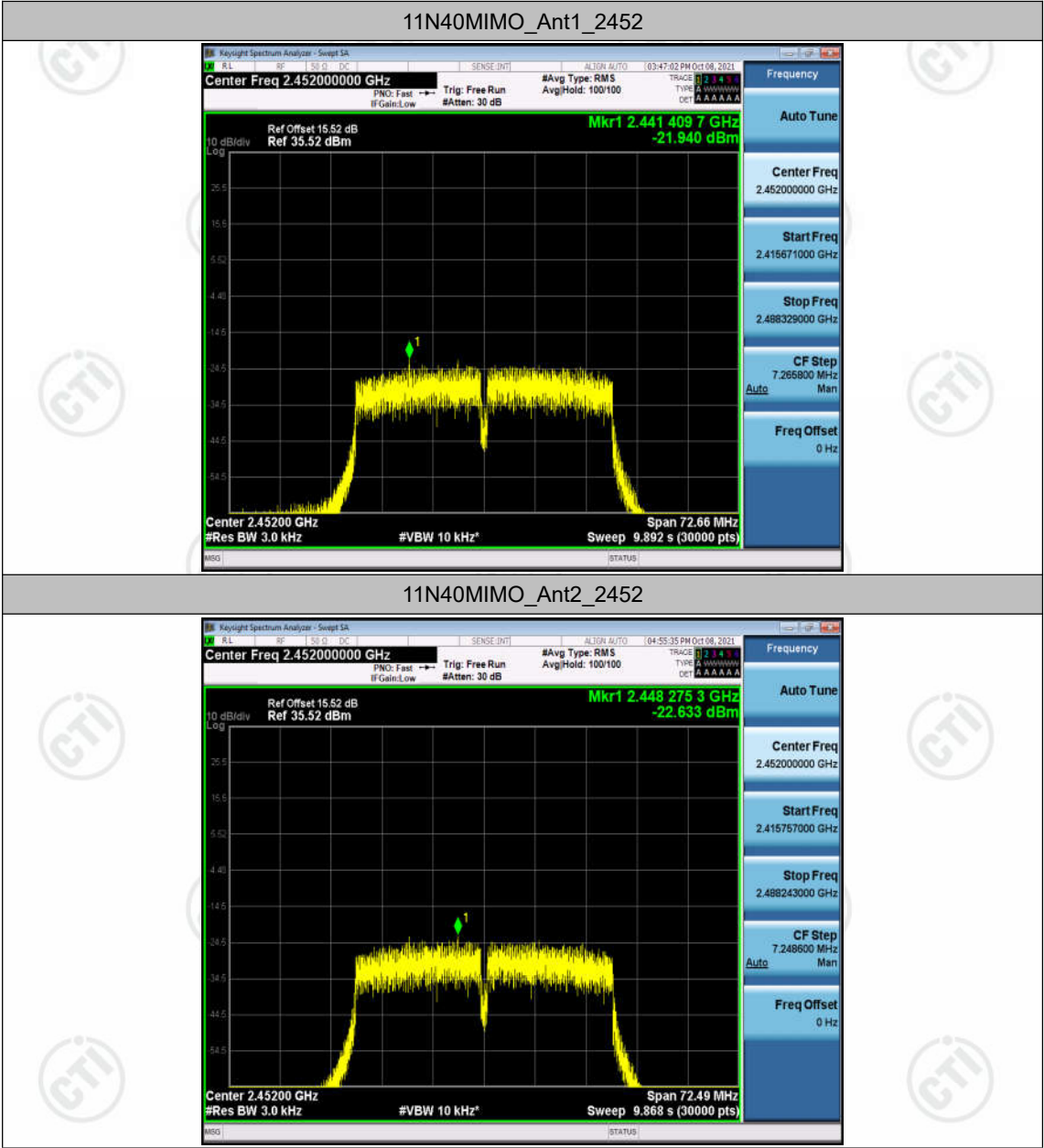










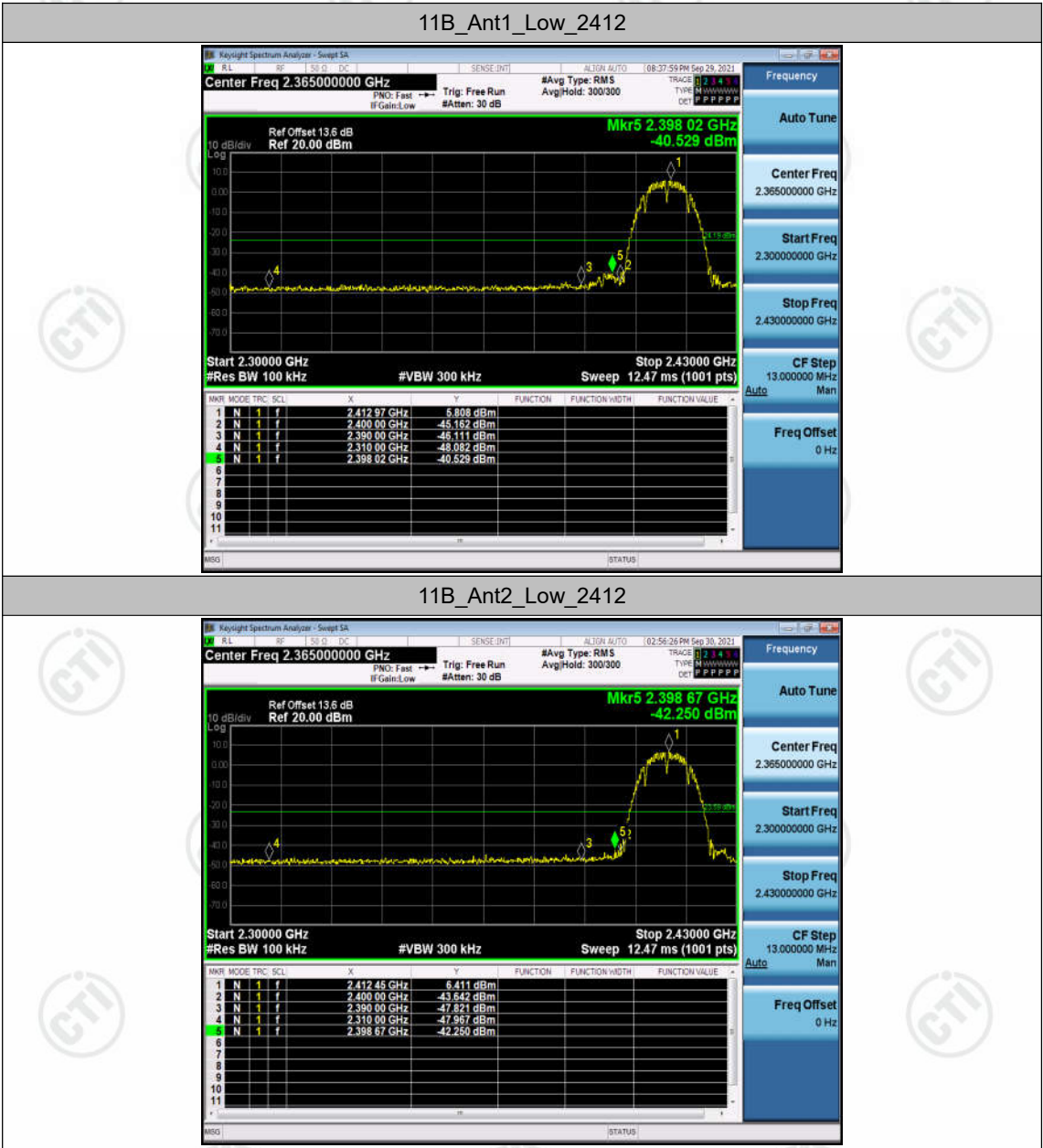


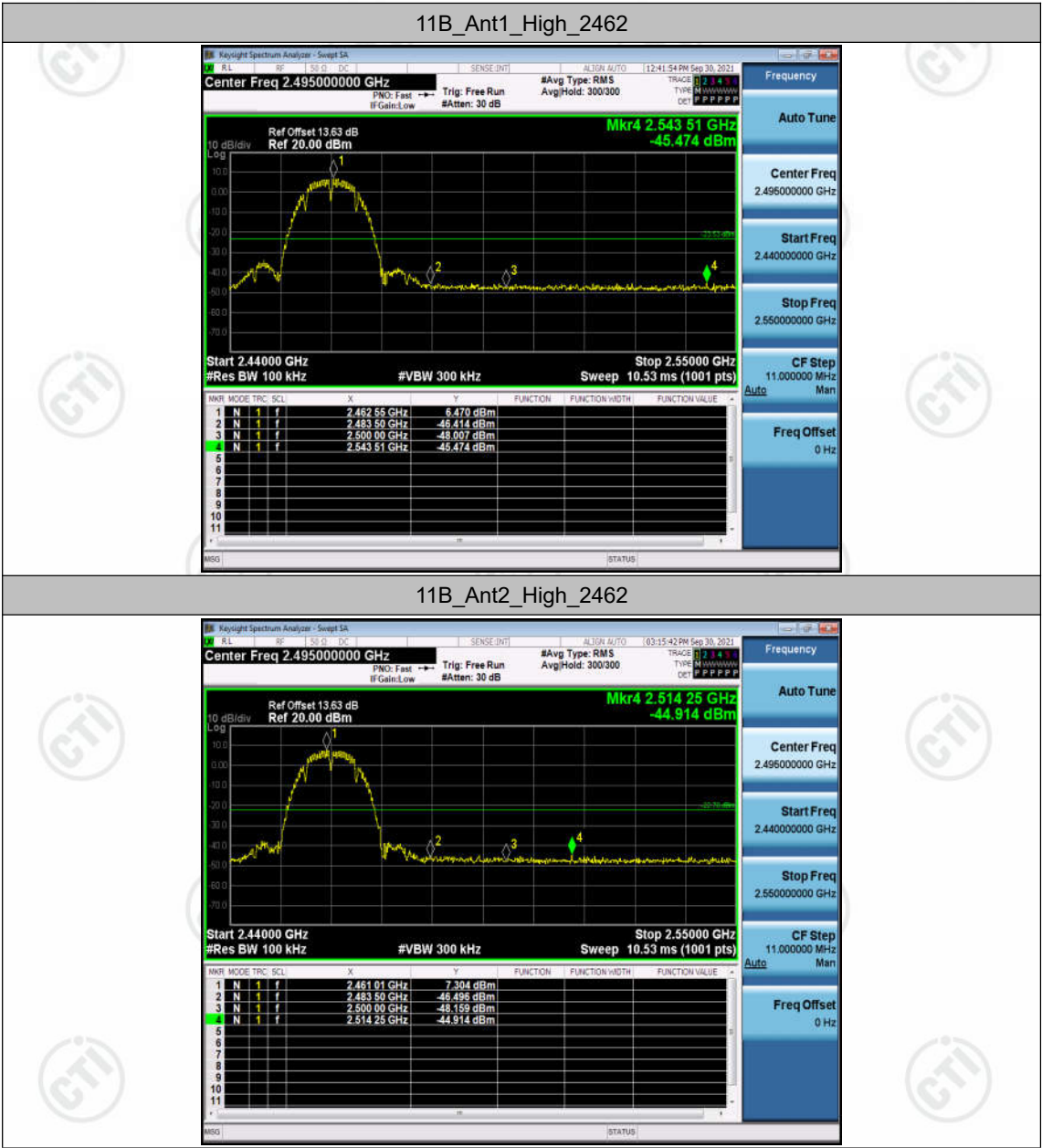
AppendixE:Band edge measurements

Test Result

Test Mode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.81	-40.53	<=-24.19	PASS
	Ant2	Low	2412	6.41	-42.25	<=-23.59	PASS
	Ant1	High	2462	6.47	-45.47	<=-23.53	PASS
	Ant2	High	2462	7.30	-44.91	<=-22.7	PASS
11G	Ant1	Low	2412	4.54	-30.42	<=-25.46	PASS
	Ant2	Low	2412	4.58	-31.28	<=-25.42	PASS
	Ant1	High	2462	5.31	-38.56	<=-24.69	PASS
	Ant2	High	2462	5.89	-38.93	<=-24.11	PASS
11N20SI SO	Ant1	Low	2412	4.55	-29.62	<=-25.45	PASS
	Ant2	Low	2412	5.45	-29.07	<=-24.55	PASS
	Ant1	High	2462	5.13	-38.16	<=-24.88	PASS
	Ant2	High	2462	4.00	-40.79	<=-26	PASS
11N40SI SO	Ant1	Low	2422	1.37	-32.27	<=-28.63	PASS
	Ant2	Low	2422	2.13	-29.56	<=-27.87	PASS
	Ant1	High	2452	1.70	-34.8	<=-28.3	PASS
	Ant2	High	2452	1.08	-36.81	<=-28.92	PASS

Test Graphs

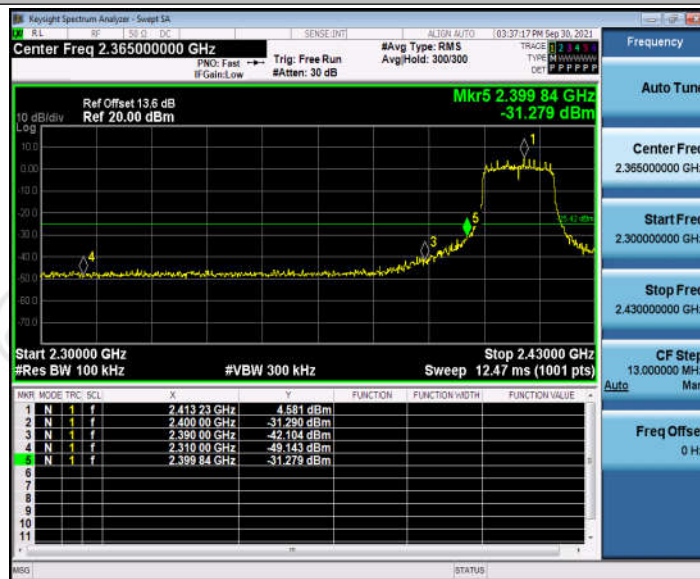


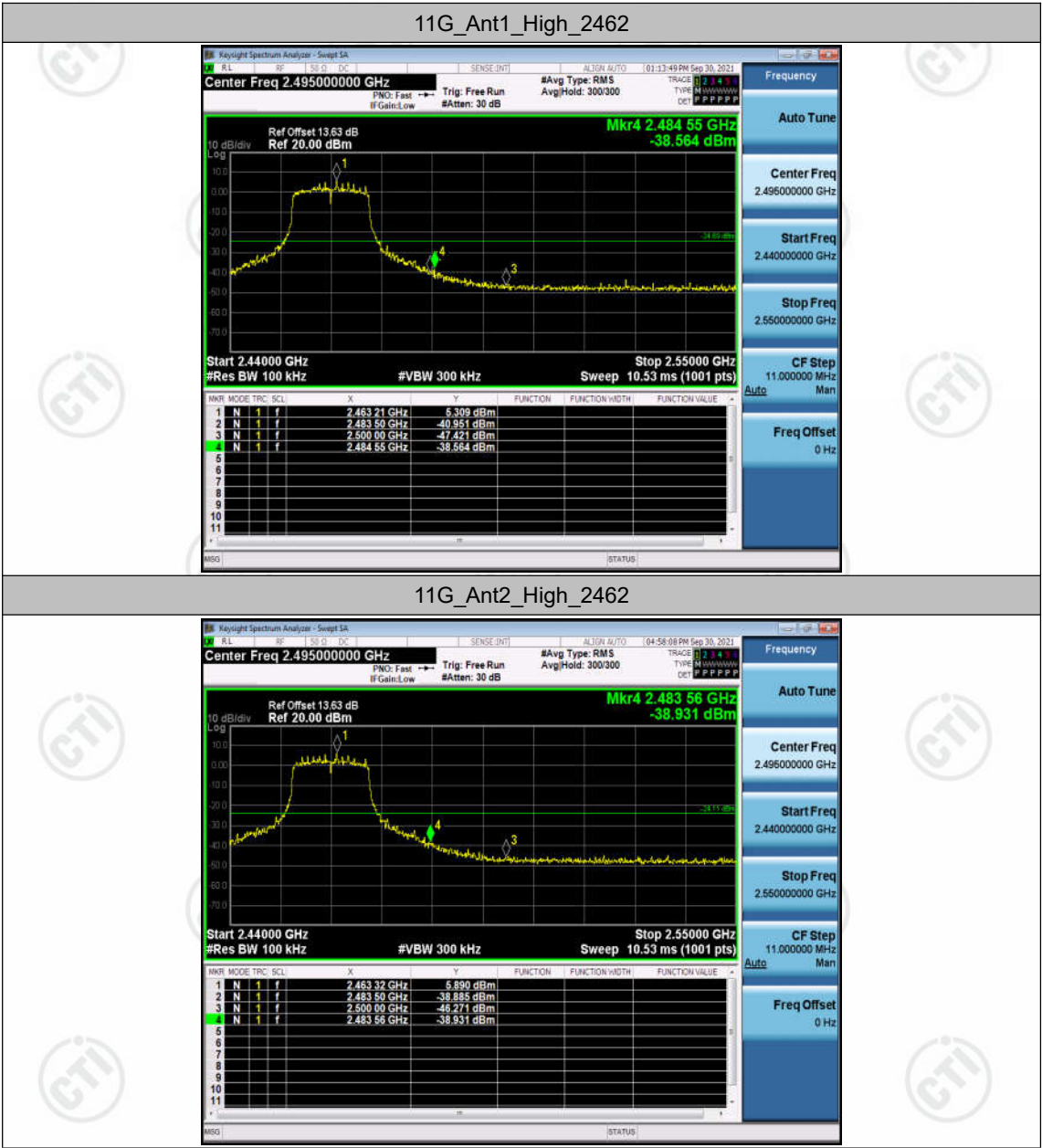


11G_Ant1_Low_2412



11G_Ant2_Low_2412



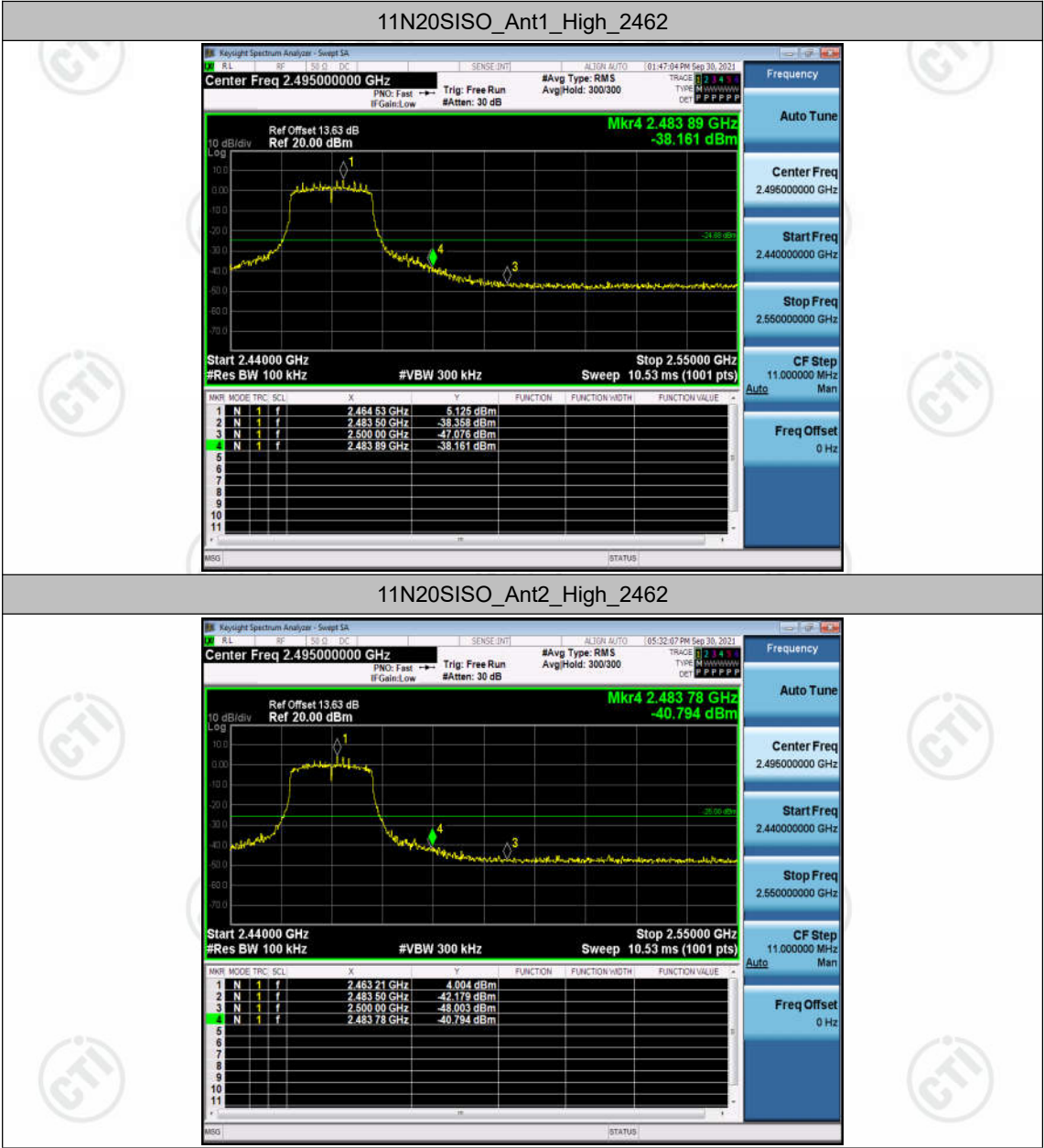


11N20SISO_Ant1_Low_2412



11N20SISO_Ant2_Low_2412





11N40SISO_Ant1_Low_2422



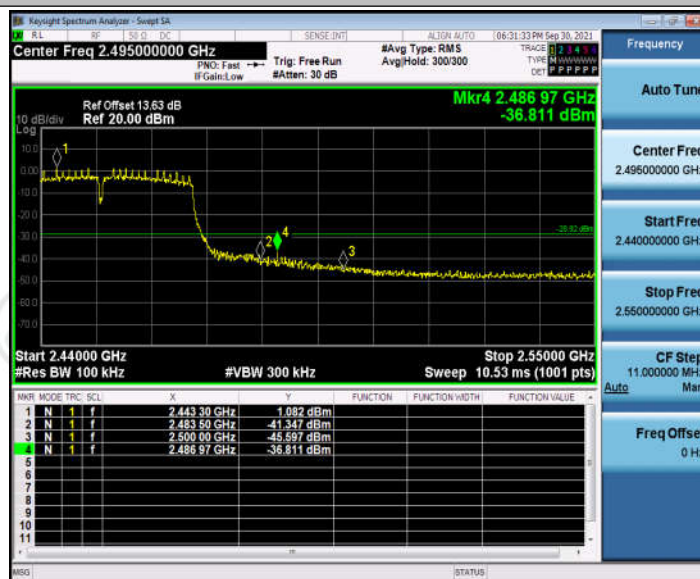
11N40SISO_Ant2_Low_2422



11N40SISO_Ant1_High_2452



11N40SISO_Ant2_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	5.35	5.35	---	PASS
			30~1000	---	-57.79	<=-14.648	PASS
			1000~26500	---	-49.816	<=-14.648	PASS
	Ant2	2412	Reference	6.14	6.14	---	PASS
			30~1000	---	-56.732	<=-13.856	PASS
			1000~26500	---	-49.22	<=-13.856	PASS
	Ant1	2437	Reference	6.12	6.12	---	PASS
			30~1000	---	-57.865	<=-13.876	PASS
			1000~26500	---	-48.538	<=-13.876	PASS
	Ant2	2437	Reference	7.37	7.37	---	PASS
			30~1000	---	-58.026	<=-12.635	PASS
			1000~26500	---	-49.672	<=-12.635	PASS
	Ant1	2462	Reference	6.47	6.47	---	PASS
			30~1000	---	-57.853	<=-13.534	PASS
			1000~26500	---	-49.811	<=-13.534	PASS
	Ant2	2462	Reference	7.01	7.01	---	PASS
			30~1000	---	-57.491	<=-12.991	PASS
			1000~26500	---	-49.558	<=-12.991	PASS
11G	Ant1	2412	Reference	3.80	3.80	---	PASS
			30~1000	---	-56.606	<=-16.205	PASS
			1000~26500	---	-49.51	<=-16.205	PASS
	Ant2	2412	Reference	4.61	4.61	---	PASS
			30~1000	---	-57.846	<=-15.395	PASS
			1000~26500	---	-49.792	<=-15.395	PASS
	Ant1	2437	Reference	3.78	3.78	---	PASS
			30~1000	---	-57.232	<=-16.217	PASS
			1000~26500	---	-49.463	<=-16.217	PASS
	Ant2	2437	Reference	3.24	3.24	---	PASS
			30~1000	---	-57.428	<=-16.756	PASS
			1000~26500	---	-49.318	<=-16.756	PASS
	Ant1	2462	Reference	4.81	4.81	---	PASS
			30~1000	---	-57.728	<=-15.187	PASS
			1000~26500	---	-48.812	<=-15.187	PASS
	Ant2	2462	Reference	4.99	4.99	---	PASS

11N20SIS O			30~1000	---	-57.667	<=-15.013	PASS
			1000~26500	---	-49.353	<=-15.013	PASS
	Ant1	2412	Reference	5.18	5.18	---	PASS
			30~1000	---	-57.968	<=-14.825	PASS
			1000~26500	---	-48.339	<=-14.825	PASS
	Ant2	2412	Reference	4.93	4.93	---	PASS
			30~1000	---	-57.241	<=-15.073	PASS
			1000~26500	---	-48.951	<=-15.073	PASS
	Ant1	2437	Reference	5.54	5.54	---	PASS
			30~1000	---	-57.779	<=-14.458	PASS
			1000~26500	---	-49.685	<=-14.458	PASS
	Ant2	2437	Reference	3.20	3.20	---	PASS
			30~1000	---	-57.837	<=-16.803	PASS
			1000~26500	---	-49.53	<=-16.803	PASS
	Ant1	2462	Reference	4.34	4.34	---	PASS
			30~1000	---	-57.419	<=-15.656	PASS
			1000~26500	---	-49.497	<=-15.656	PASS
	Ant2	2462	Reference	3.53	3.53	---	PASS
			30~1000	---	-57.066	<=-16.473	PASS
			1000~26500	---	-49.51	<=-16.473	PASS
11N40SIS O	Ant1	2422	Reference	1.08	1.08	---	PASS
			30~1000	---	-55.65	<=-18.924	PASS
			1000~26500	---	-49.046	<=-18.924	PASS
	Ant2	2422	Reference	2.17	2.17	---	PASS
			30~1000	---	-56.401	<=-17.834	PASS
			1000~26500	---	-49.242	<=-17.834	PASS
	Ant1	2437	Reference	1.33	1.33	---	PASS
			30~1000	---	-54.447	<=-18.669	PASS
			1000~26500	---	-49.334	<=-18.669	PASS
	Ant2	2437	Reference	1.78	1.78	---	PASS
			30~1000	---	-56.793	<=-18.22	PASS
			1000~26500	---	-48.755	<=-18.22	PASS
	Ant1	2452	Reference	1.27	1.27	---	PASS
			30~1000	---	-54.632	<=-18.727	PASS
			1000~26500	---	-49.173	<=-18.727	PASS
	Ant2	2452	Reference	1.00	1.00	---	PASS
			30~1000	---	-57.067	<=-18.999	PASS
			1000~26500	---	-49.351	<=-18.999	PASS