

Appendix Test Data

Report No.:	18220WC10203701	Test Date:	2021.9.24
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.680	2407.360	2417.040	≥0.5	PASS
	Ant2	2412	10.120	2406.920	2417.040	≥0.5	PASS
	Ant1	2437	10.080	2431.960	2442.040	≥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	16.400	2403.800	2420.200	≥0.5	PASS
	Ant2	2412	16.400	2403.760	2420.160	≥0.5	PASS
	Ant1	2437	16.440	2428.760	2445.200	≥0.5	PASS
	Ant2	2437	16.480	2428.800	2445.280	≥0.5	PASS
	Ant1	2462	16.440	2453.760	2470.200	≥0.5	PASS
	Ant2	2462	16.240	2453.760	2470.000	≥0.5	PASS
11N20	Ant1	2412	17.320	2403.200	2420.520	≥0.5	PASS
	Ant2	2412	17.640	2403.160	2420.800	≥0.5	PASS
	Ant1	2437	17.640	2428.160	2445.800	≥0.5	PASS
	Ant2	2437	17.640	2428.160	2445.800	≥0.5	PASS
	Ant1	2462	17.640	2453.160	2470.800	≥0.5	PASS
	Ant2	2462	17.400	2453.160	2470.560	≥0.5	PASS
11N40	Ant1	2422	35.940	2404.000	2439.940	≥0.5	PASS
	Ant2	2422	35.520	2404.120	2439.640	≥0.5	PASS
	Ant1	2437	35.400	2419.420	2454.820	≥0.5	PASS
	Ant2	2437	36.120	2419.060	2455.180	≥0.5	PASS
	Ant1	2452	35.460	2434.420	2469.880	≥0.5	PASS
	Ant2	2452	35.460	2434.120	2469.580	≥0.5	PASS

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Test Graphs

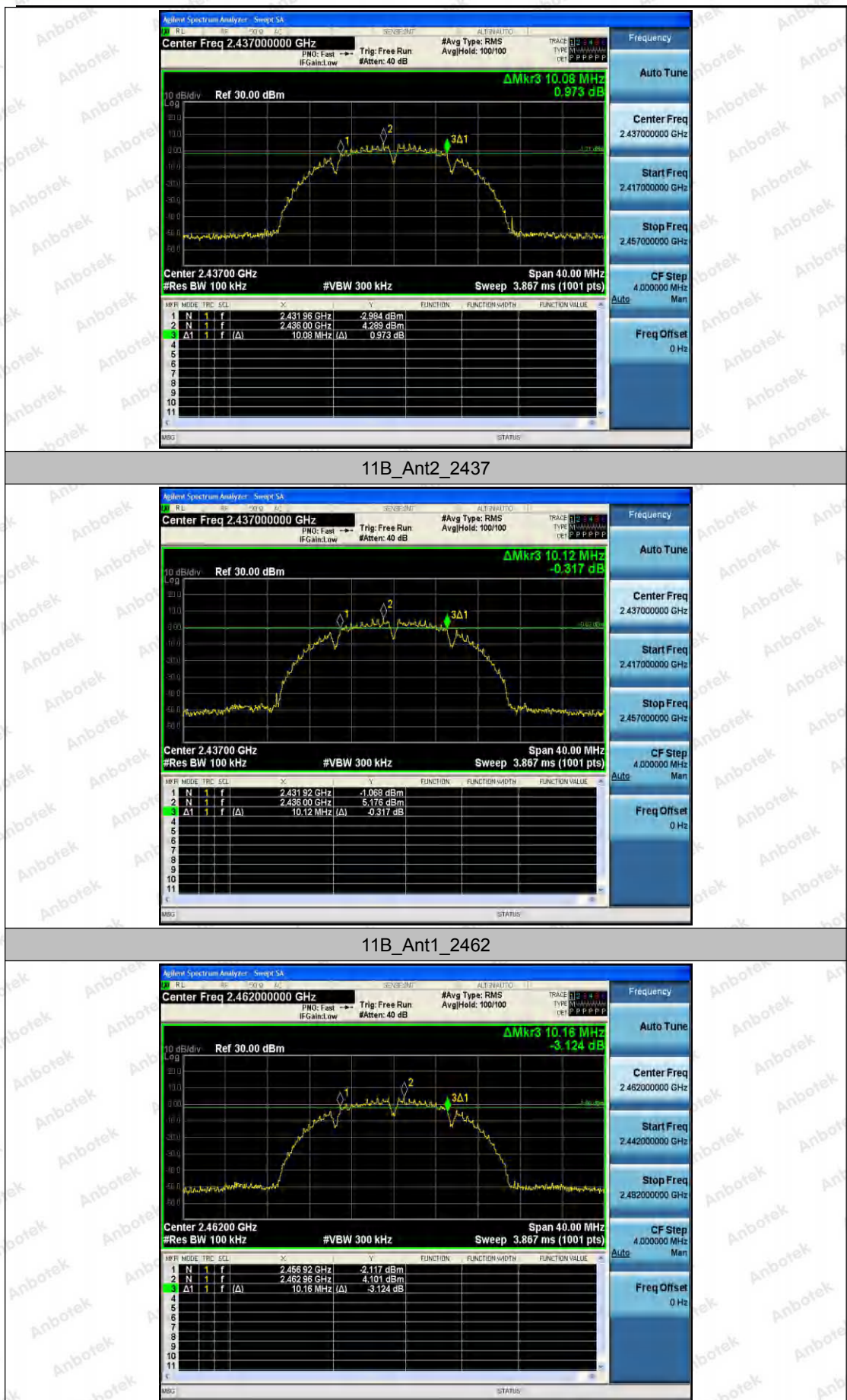
11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437



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11B_Ant2_2462



11G_Ant1_2412



11G_Ant2_2412

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11G_Ant1_2437



11G_Ant2_2437



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11G_Ant1_2462



11G_Ant2_2462



11N20_Ant1_2412

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11N20_Ant2_2412



11N20_Ant1_2437



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11N20_Ant2_2437



11N20_Ant1_2462



11N20_Ant2_2462

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11N40 Ant1 2422



11N40 Ant2 2422



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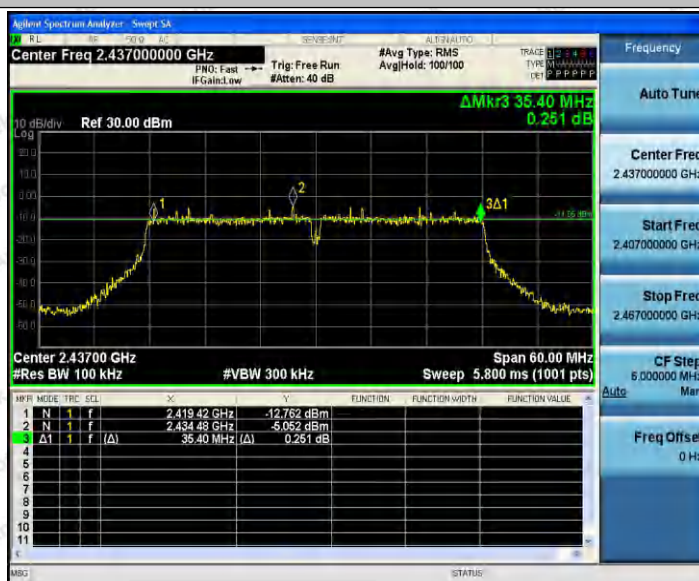


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11N40_Ant1_2437



11N40_Ant2_2437



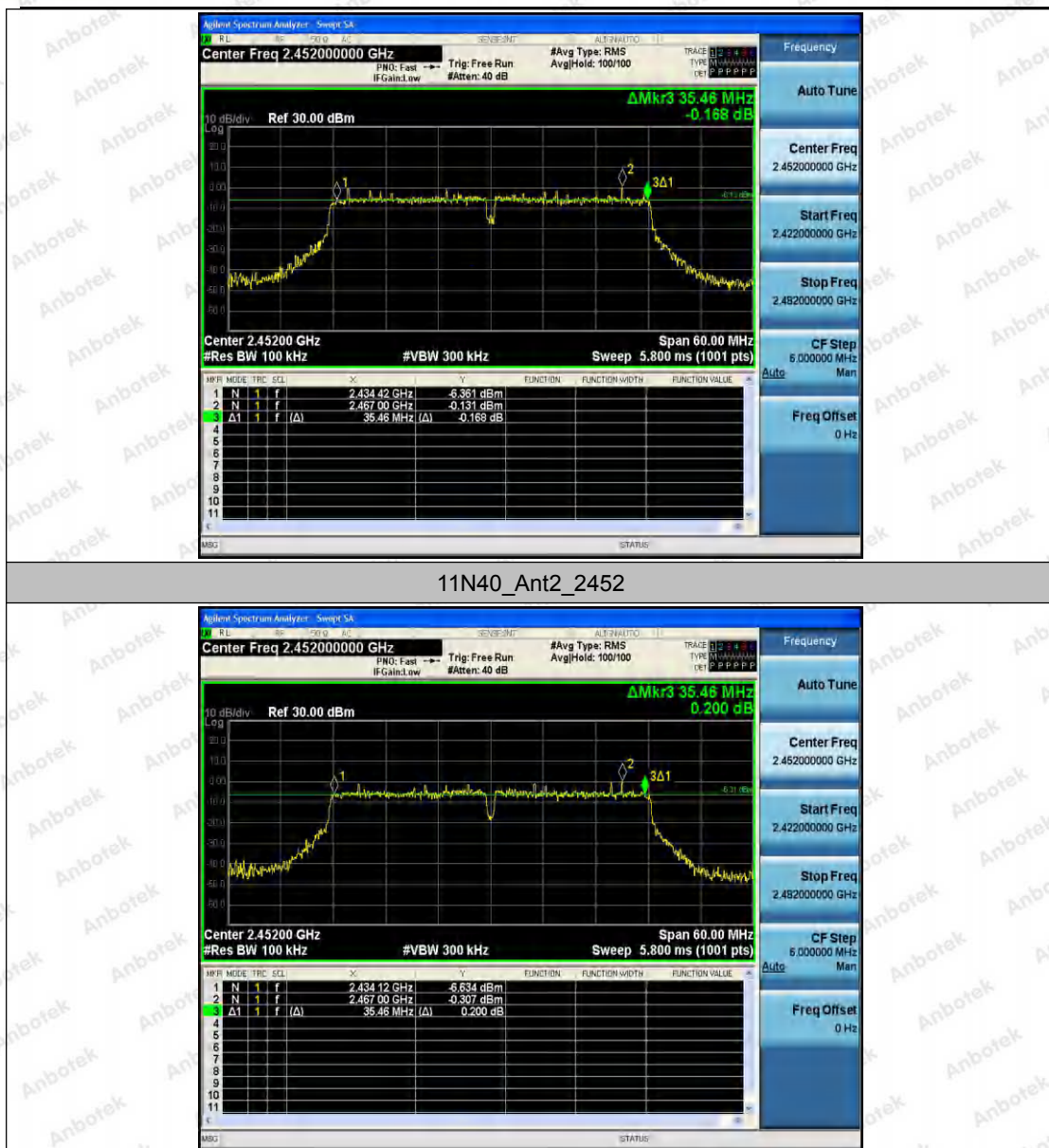
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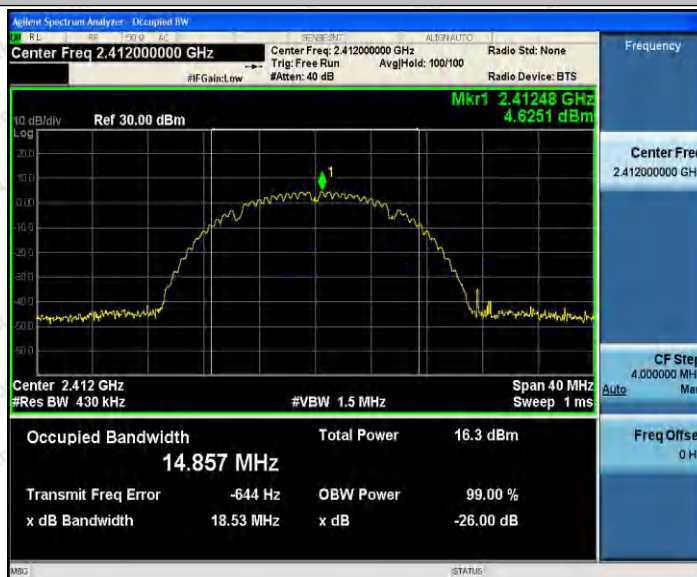
Appendix B: Occupied Channel Bandwidth

Test Result

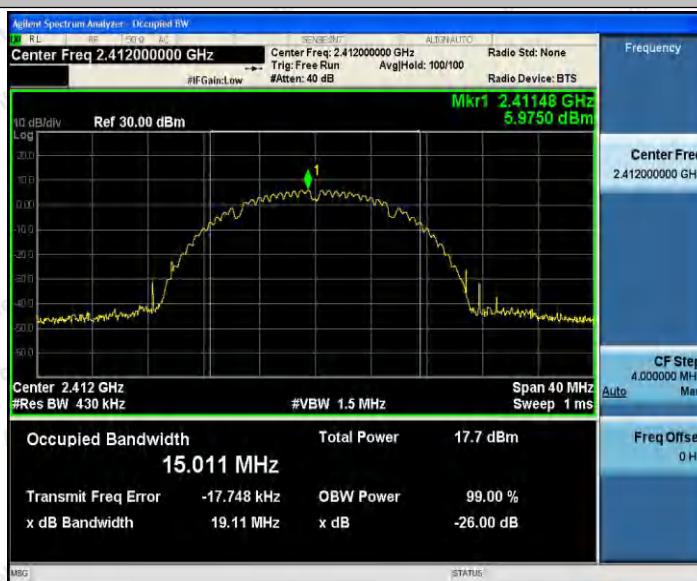
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.857	2404.571	2419.428	---	PASS
	Ant2	2412	15.011	2404.477	2419.488	---	PASS
	Ant1	2437	14.870	2429.552	2444.422	---	PASS
	Ant2	2437	15.001	2429.498	2444.499	---	PASS
	Ant1	2462	14.859	2454.551	2469.410	---	PASS
	Ant2	2462	14.992	2454.485	2469.477	---	PASS
11G	Ant1	2412	17.011	2403.476	2420.487	---	PASS
	Ant2	2412	17.072	2403.394	2420.466	---	PASS
	Ant1	2437	17.073	2428.487	2445.560	---	PASS
	Ant2	2437	17.191	2428.376	2445.567	---	PASS
	Ant1	2462	17.020	2453.483	2470.503	---	PASS
	Ant2	2462	17.128	2453.439	2470.567	---	PASS
11N20	Ant1	2412	18.020	2402.976	2420.996	---	PASS
	Ant2	2412	18.187	2402.902	2421.089	---	PASS
	Ant1	2437	17.995	2427.997	2445.992	---	PASS
	Ant2	2437	18.195	2427.883	2446.078	---	PASS
	Ant1	2462	17.938	2453.011	2470.949	---	PASS
	Ant2	2462	18.098	2452.907	2471.005	---	PASS
11N40	Ant1	2422	36.250	2403.883	2440.133	---	PASS
	Ant2	2422	36.348	2403.804	2440.152	---	PASS
	Ant1	2437	36.278	2418.863	2455.141	---	PASS
	Ant2	2437	36.251	2418.876	2455.127	---	PASS
	Ant1	2452	36.274	2433.920	2470.194	---	PASS
	Ant2	2452	36.277	2433.878	2470.155	---	PASS

Test Graphs

11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437

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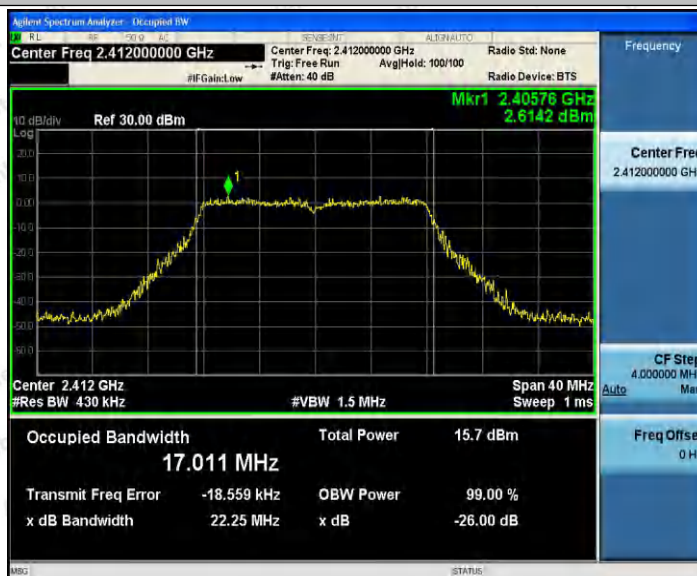
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11B_Ant2_2462



11G_Ant1_2412



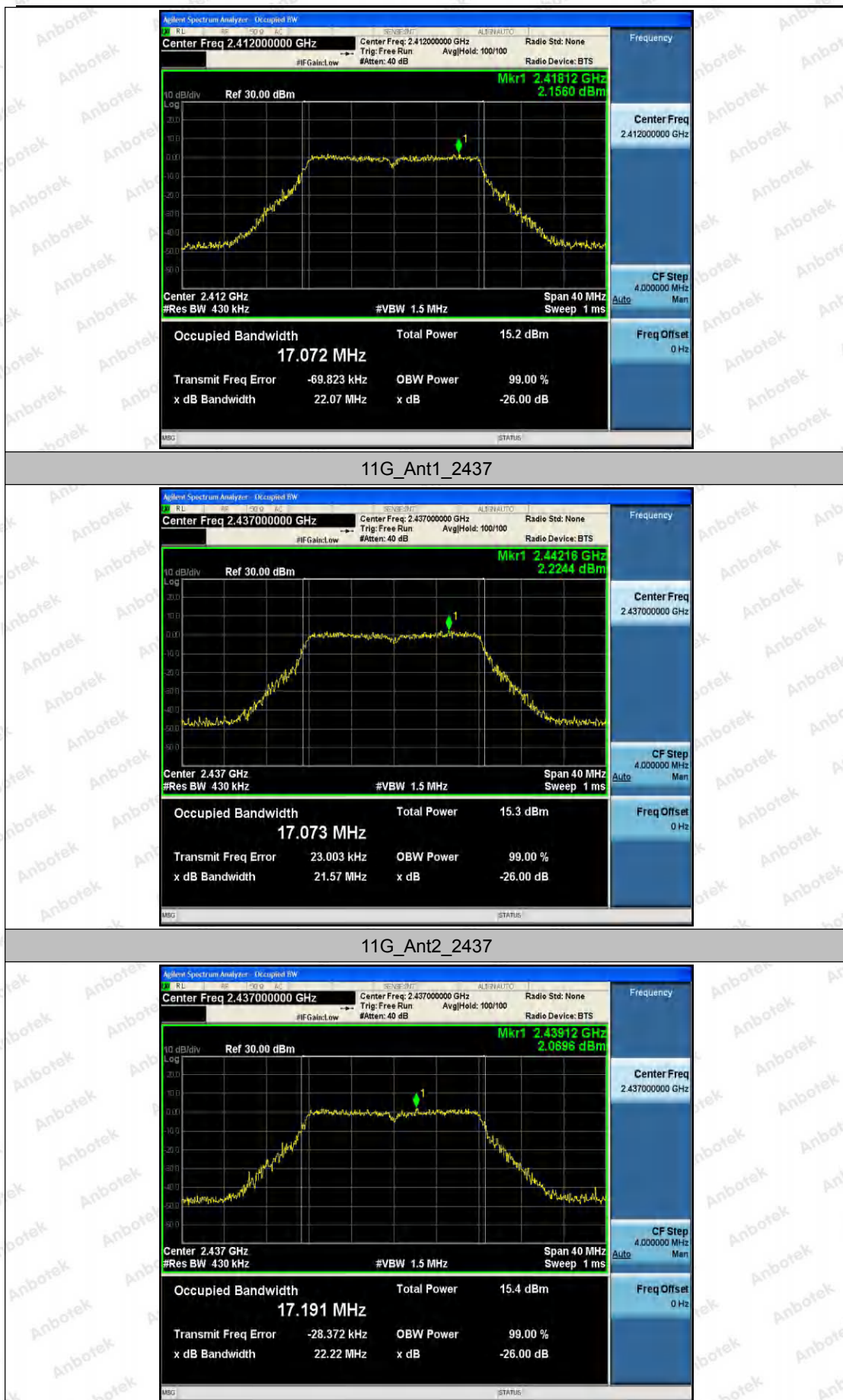
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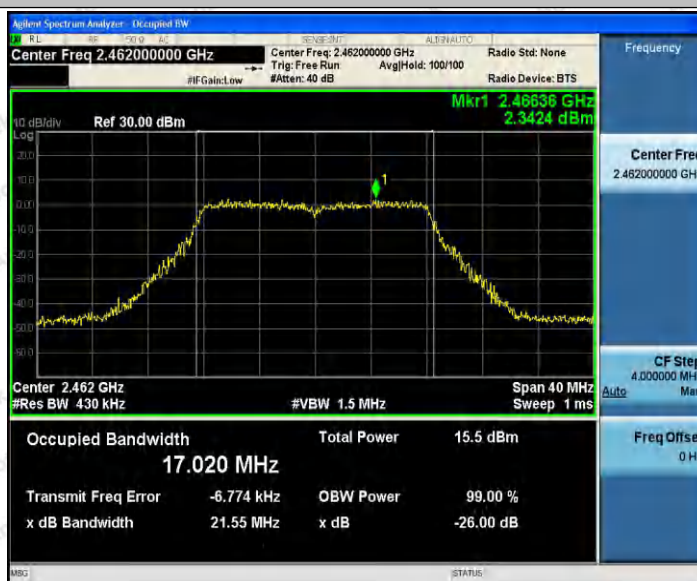
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11G_Ant1_2462



11G_Ant2_2462



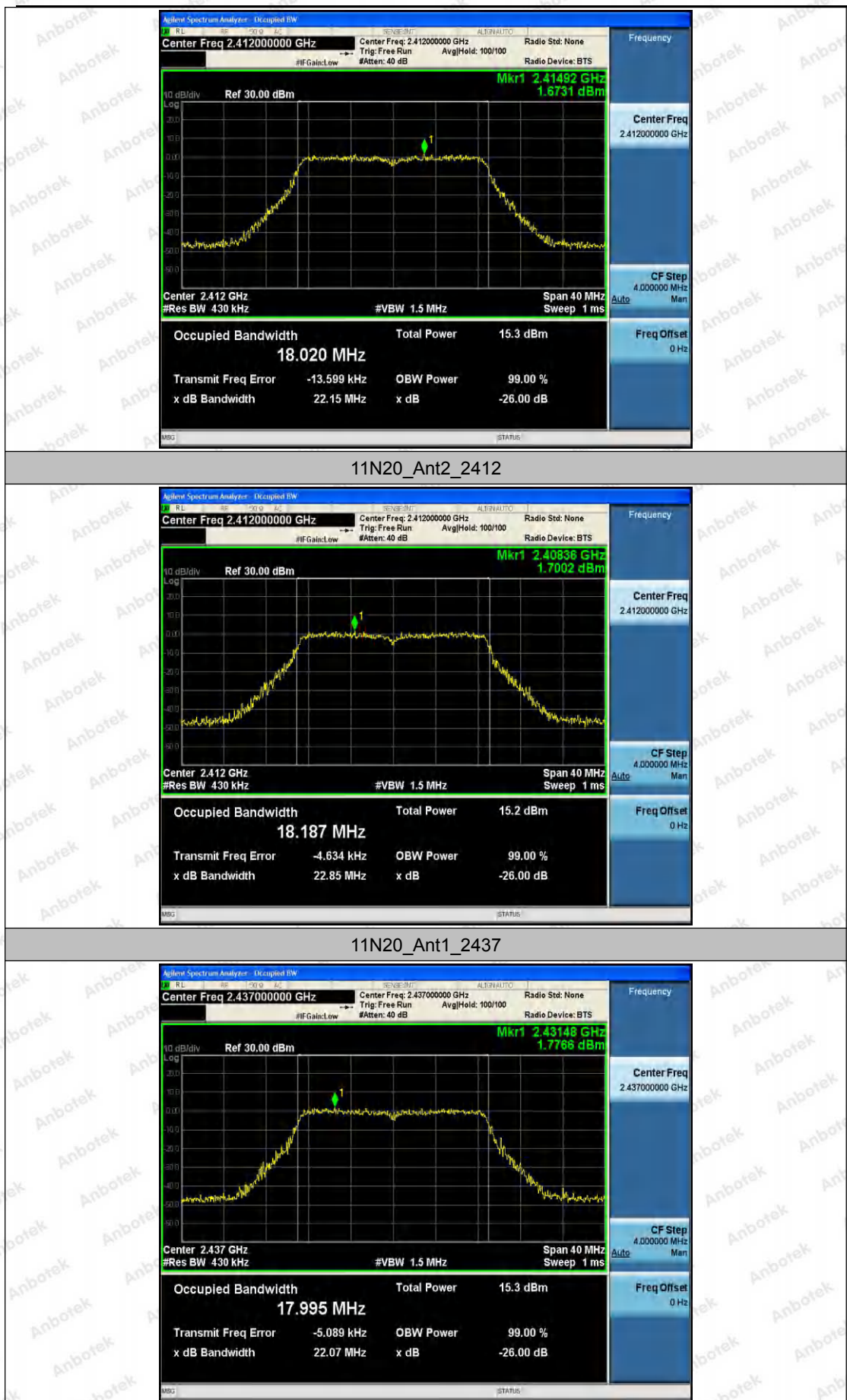
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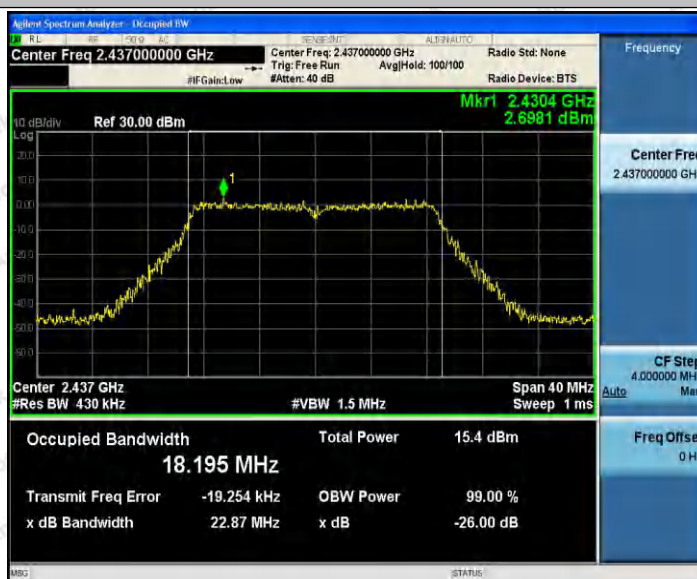
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11N20_Ant2_2437



11N20_Ant1_2462



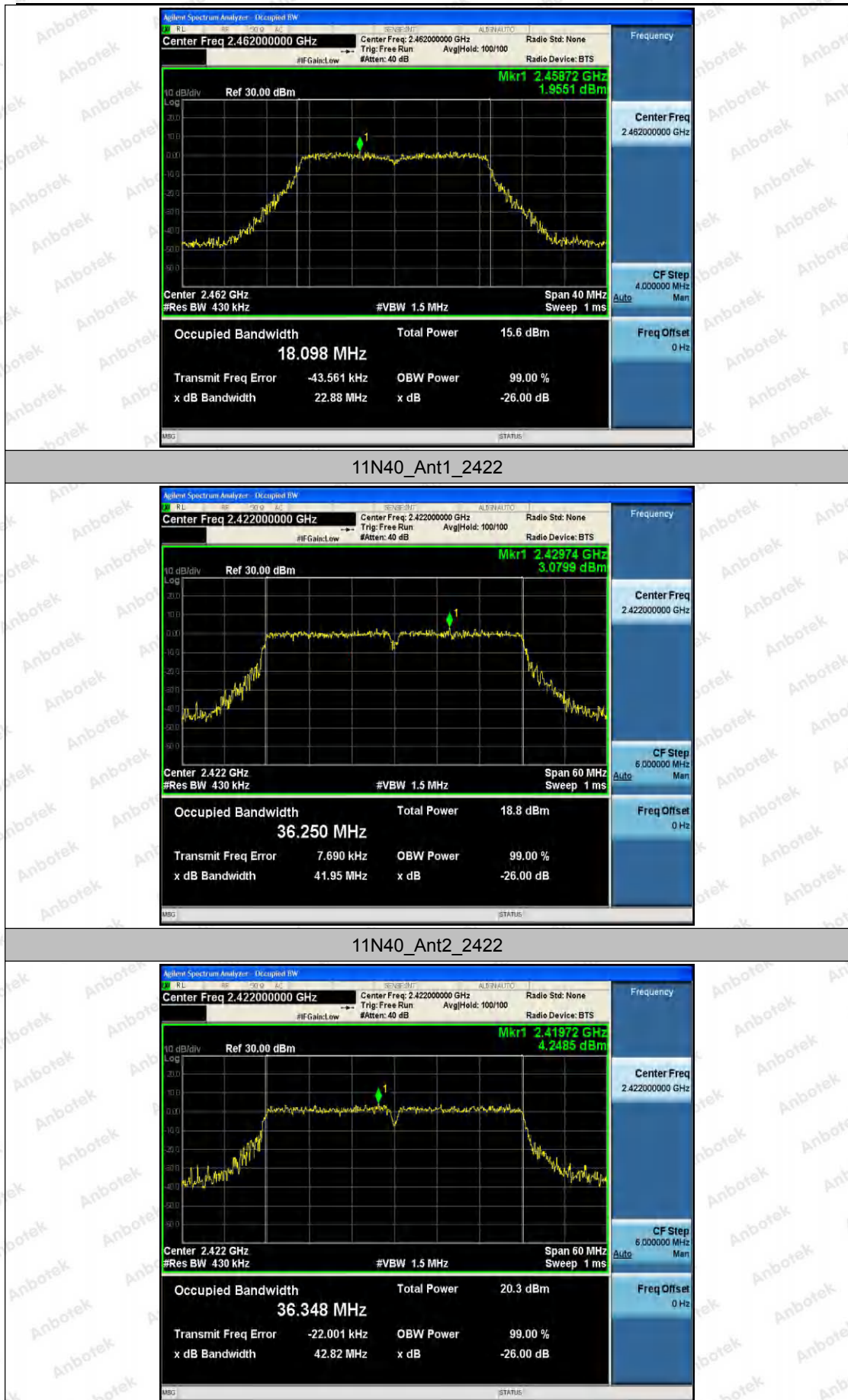
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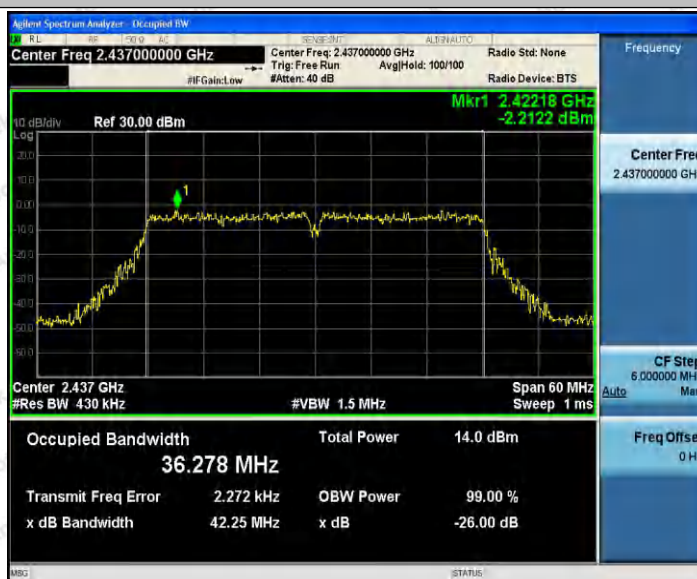
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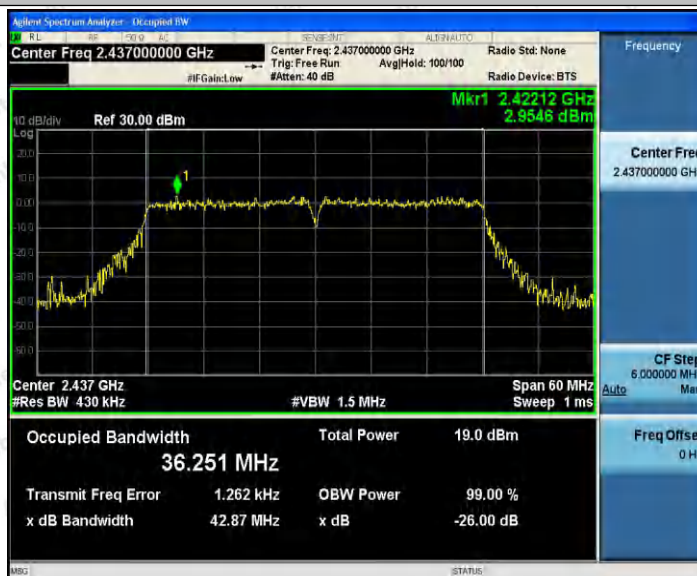
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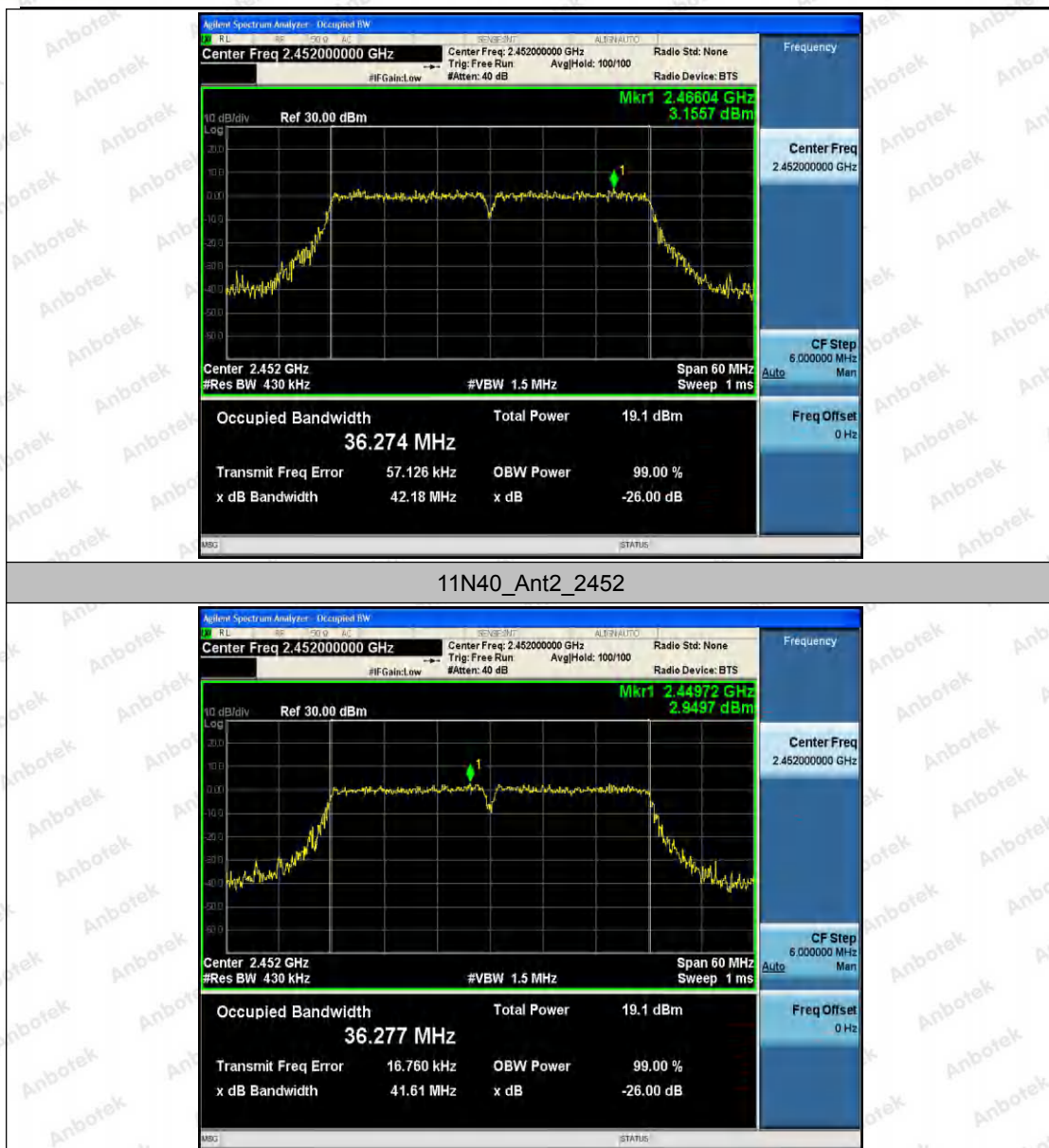
11N40_Ant1_2437



11N40_Ant2_2437



11N40_Ant1_2452



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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	16.34	≤30	PASS
	Ant2	2412	17.68	≤30	PASS
	Ant1	2437	16.41	≤30	PASS
	Ant2	2437	17.78	≤30	PASS
	Ant1	2462	16.63	≤30	PASS
	Ant2	2462	17.70	≤30	PASS
11G	Ant1	2412	16.79	≤30	PASS
	Ant2	2412	16.29	≤30	PASS
	Ant1	2437	16.35	≤30	PASS
	Ant2	2437	16.40	≤30	PASS
	Ant1	2462	16.69	≤30	PASS
	Ant2	2462	16.45	≤30	PASS
11N20	Ant1	2412	16.34	≤30	PASS
	Ant2	2412	16.25	≤30	PASS
	Ant1	2437	16.21	≤30	PASS
	Ant2	2437	16.43	≤30	PASS
	Ant1	2462	16.37	≤30	PASS
	Ant2	2462	16.55	≤30	PASS
11N40	Ant1	2422	17.14	≤30	PASS
	Ant2	2422	17.72	≤30	PASS
	Ant1	2437	17.53	≤30	PASS
	Ant2	2437	17.36	≤30	PASS
	Ant1	2452	17.31	≤30	PASS
	Ant2	2452	17.33	≤30	PASS

MIMO:

TestMode	Channel	Result[dBm]	Limit[dBm]	Verdict
11N20	2412	19.31	≤30	PASS
	2437	19.33	≤30	PASS
	2462	19.47	≤30	PASS
11N40	2422	20.45	≤30	PASS
	2437	20.46	≤30	PASS
	2452	20.33	≤30	PASS

Appendix D: Maximum power spectral density

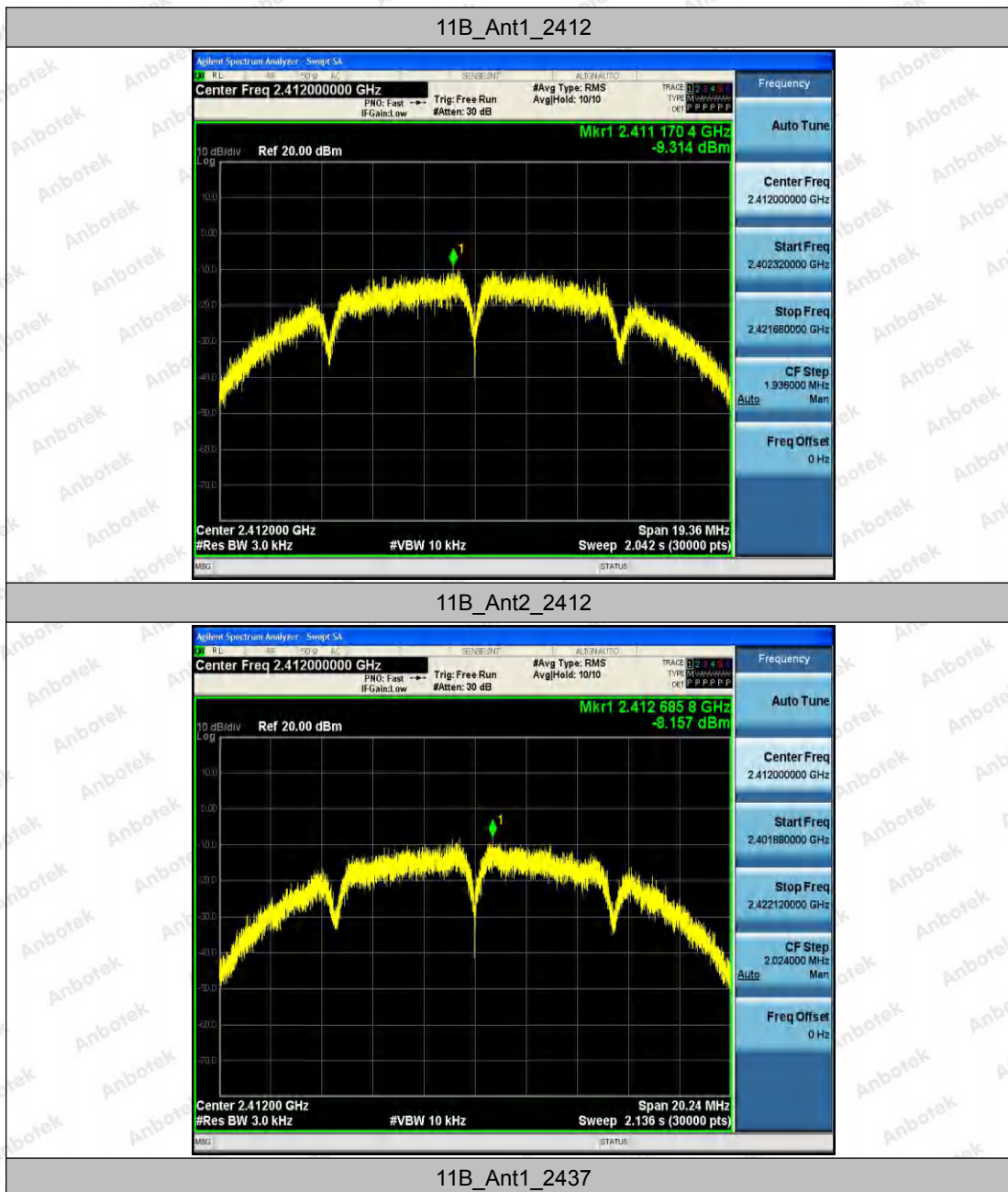
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.31	≤8	PASS
	Ant2	2412	-8.16	≤8	PASS
	Ant1	2437	-9.54	≤8	PASS
	Ant2	2437	-8.74	≤8	PASS
	Ant1	2462	-9.4	≤8	PASS
	Ant2	2462	-8.01	≤8	PASS
11G	Ant1	2412	-14.33	≤8	PASS
	Ant2	2412	-15.39	≤8	PASS
	Ant1	2437	-15.51	≤8	PASS
	Ant2	2437	-14.89	≤8	PASS
	Ant1	2462	-15.22	≤8	PASS
	Ant2	2462	-16.02	≤8	PASS
11N20	Ant1	2412	-15.9	≤8	PASS
	Ant2	2412	-14.52	≤8	PASS
	Ant1	2437	-16.47	≤8	PASS
	Ant2	2437	-14.37	≤8	PASS
	Ant1	2462	-14.78	≤8	PASS
	Ant2	2462	-15.53	≤8	PASS
11N40	Ant1	2422	-15.98	≤8	PASS
	Ant2	2422	-16.16	≤8	PASS
	Ant1	2437	-15.33	≤8	PASS
	Ant2	2437	-15.12	≤8	PASS
	Ant1	2452	-15.6	≤8	PASS
	Ant2	2452	-16.37	≤8	PASS

MIMO:

TestMode	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11N20	2412	-12.15	≤8	PASS
	2437	-12.28	≤8	PASS
	2462	-12.13	≤8	PASS
11N40	2422	-13.06	≤8	PASS
	2437	-12.21	≤8	PASS
	2452	-12.96	≤8	PASS

Test Graphs





11B_Ant2_2437



11B_Ant1_2462



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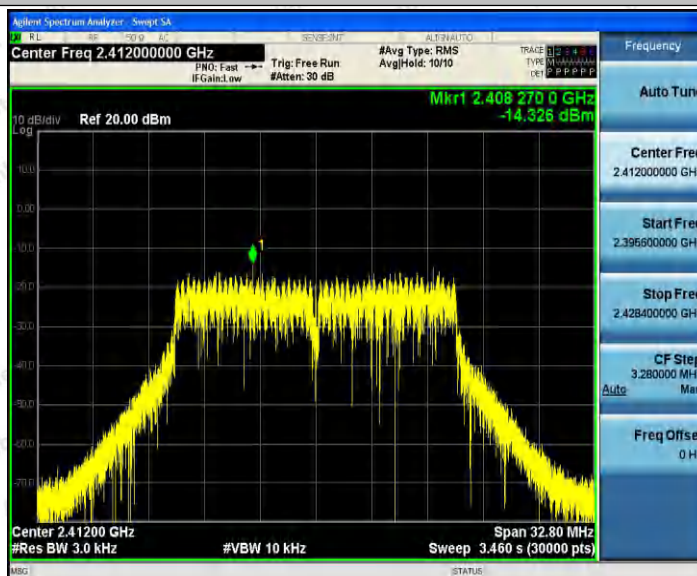
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11B_Ant2_2462



11G_Ant1_2412



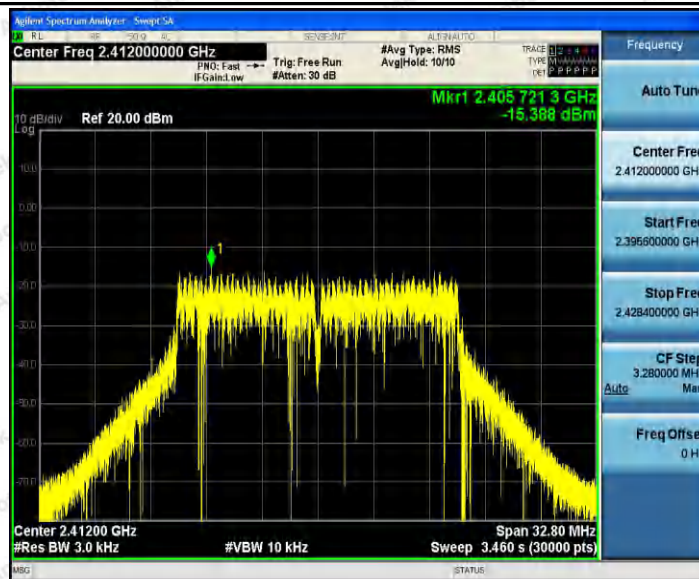
11G_Ant2_2412

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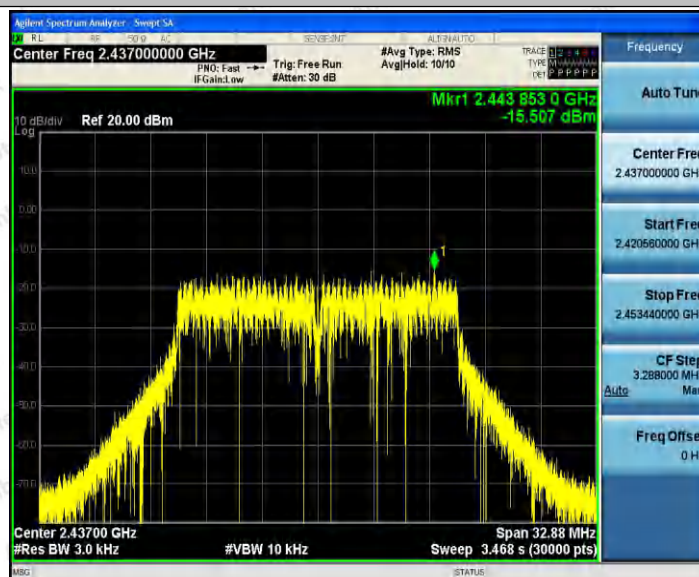
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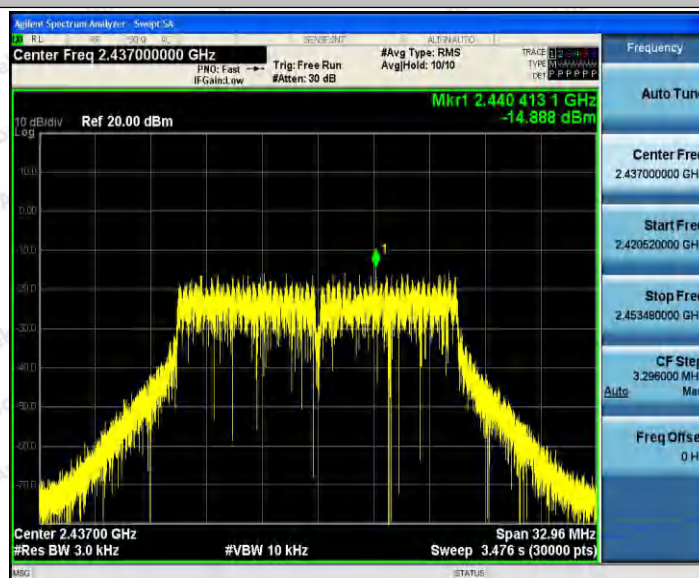
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11G_Ant1_2437



11G_Ant2_2437



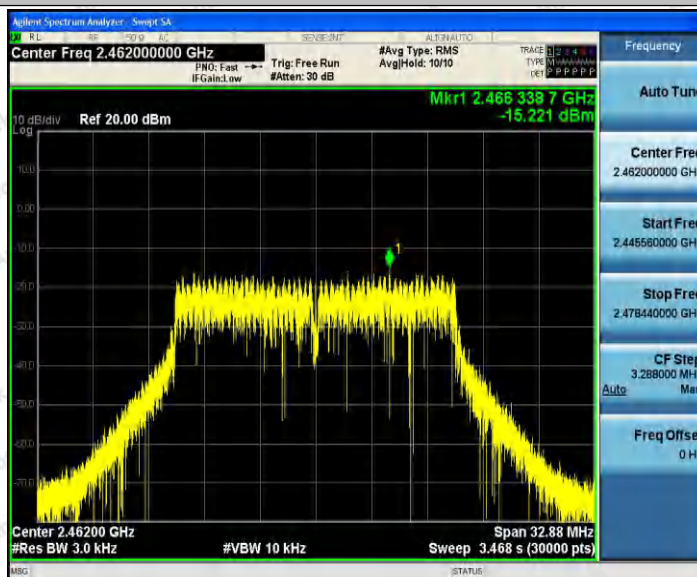
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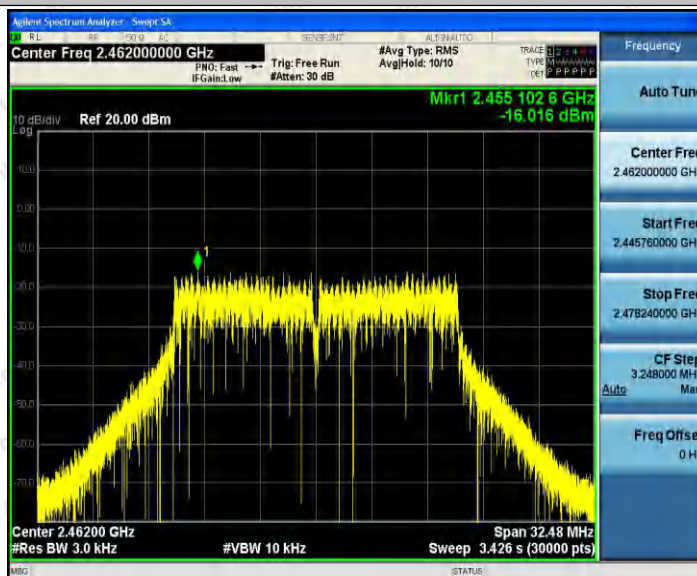
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11G_Ant1_2462



11G_Ant2_2462



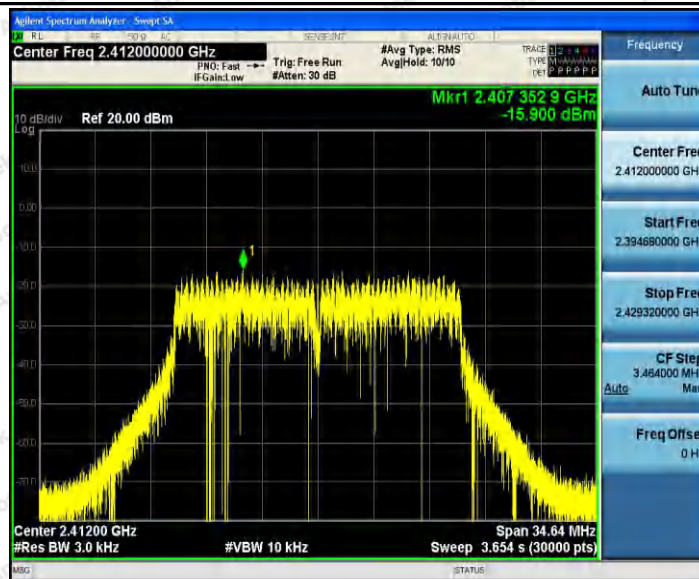
11N20_Ant1_2412

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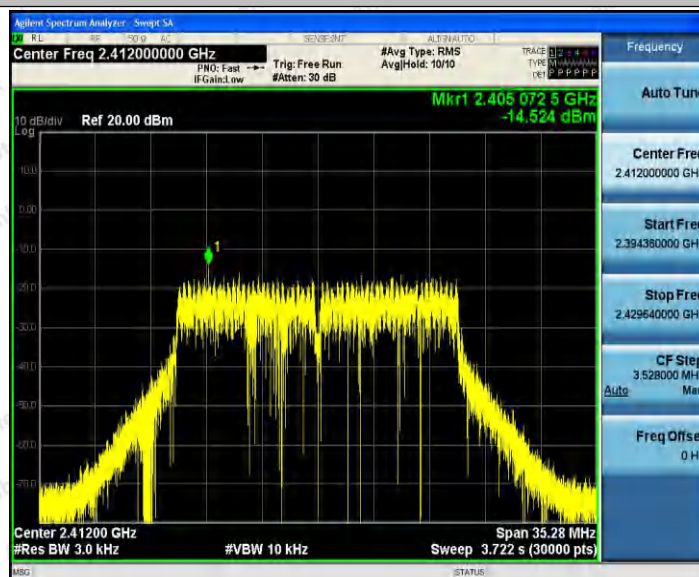
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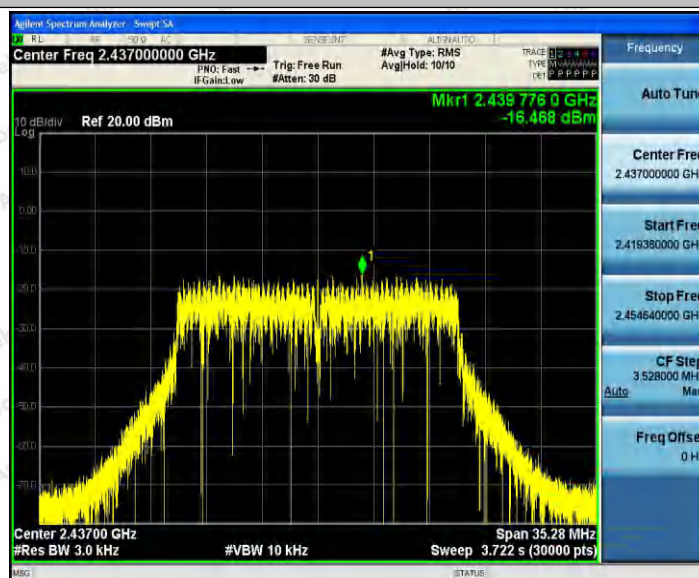
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11N20_Ant2_2412



11N20_Ant1_2437



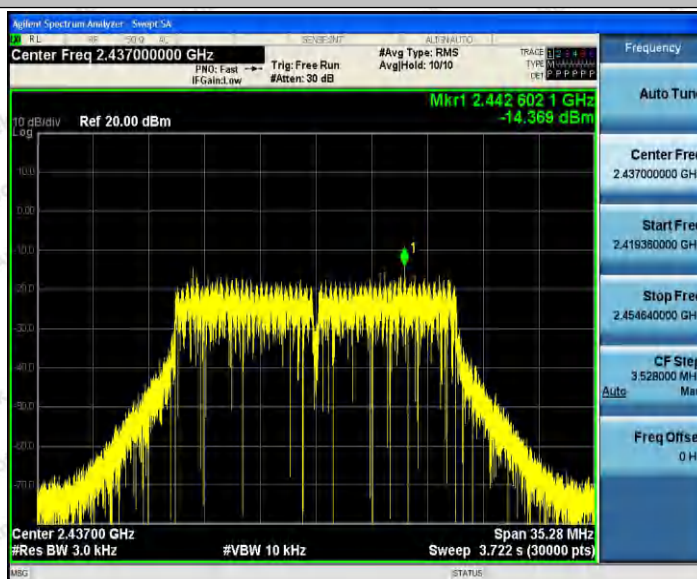
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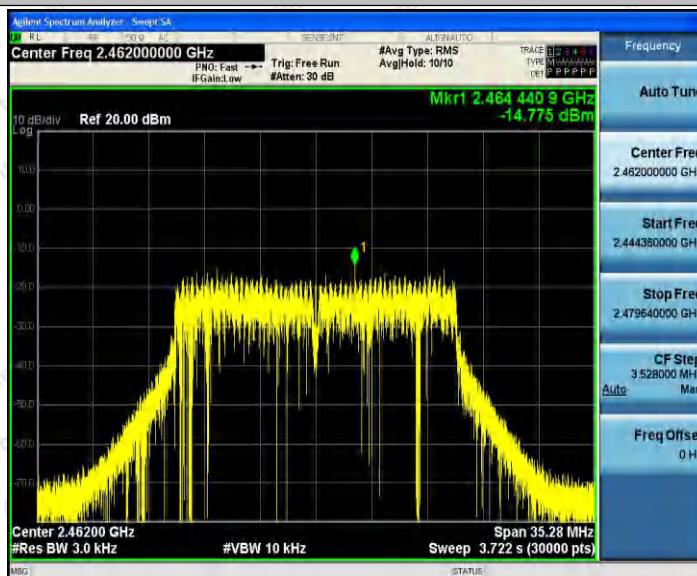
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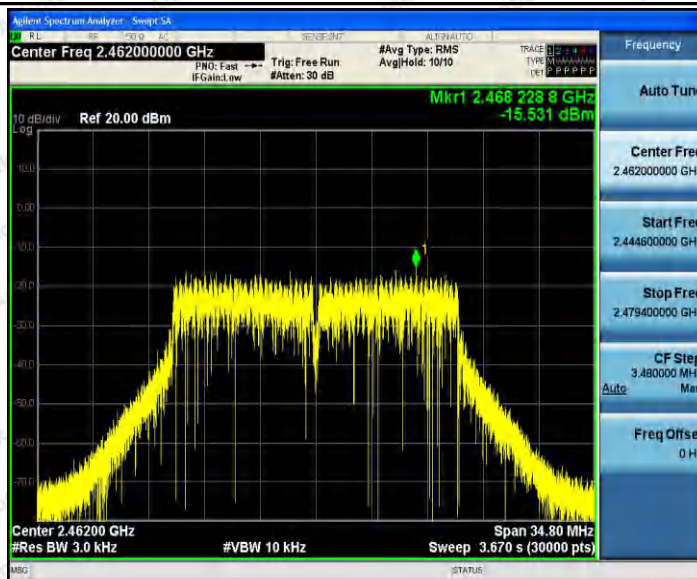
11N20_Ant2_2437



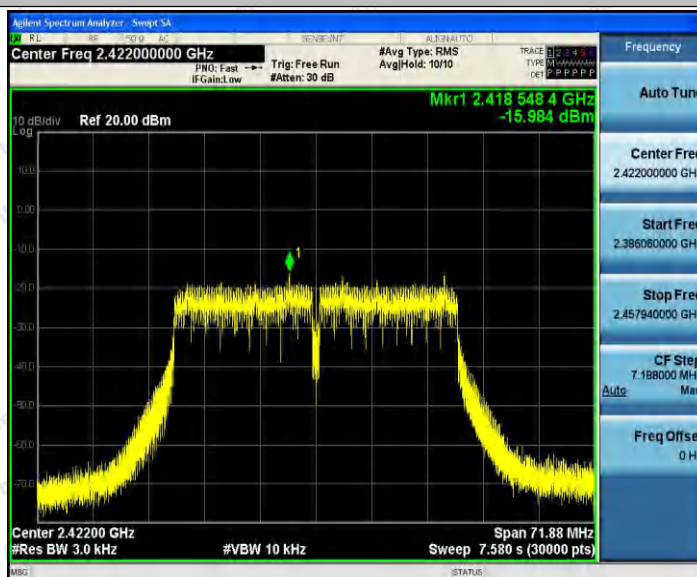
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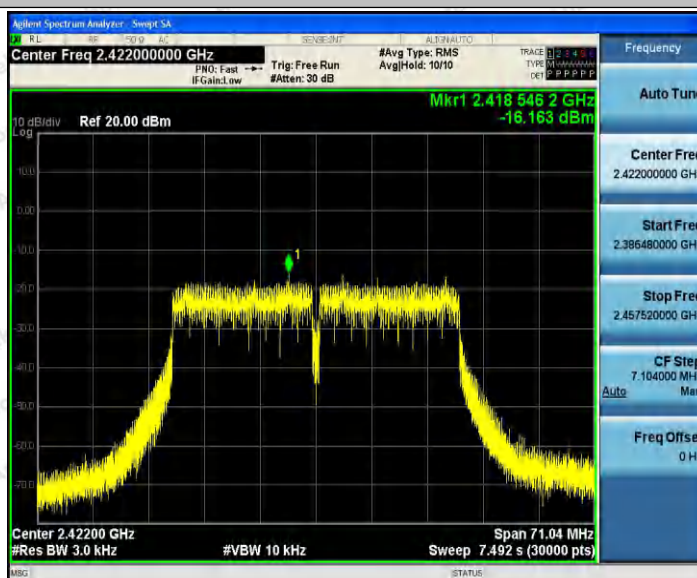
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11N40_Ant1_2422



11N40_Ant2_2422



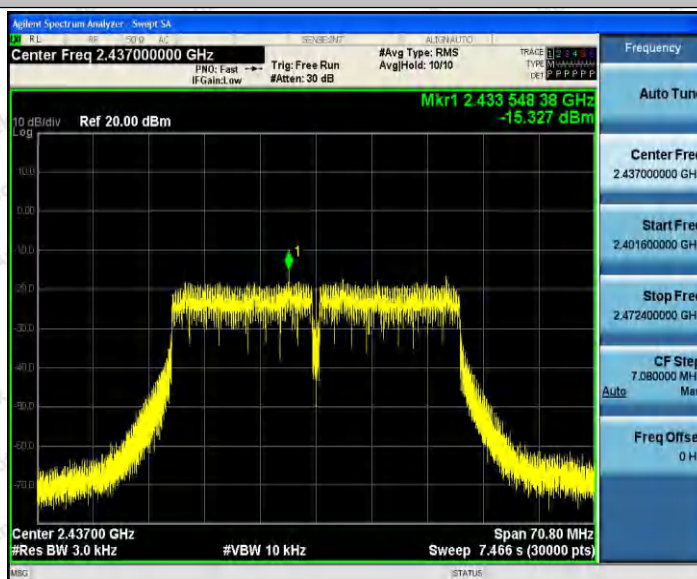
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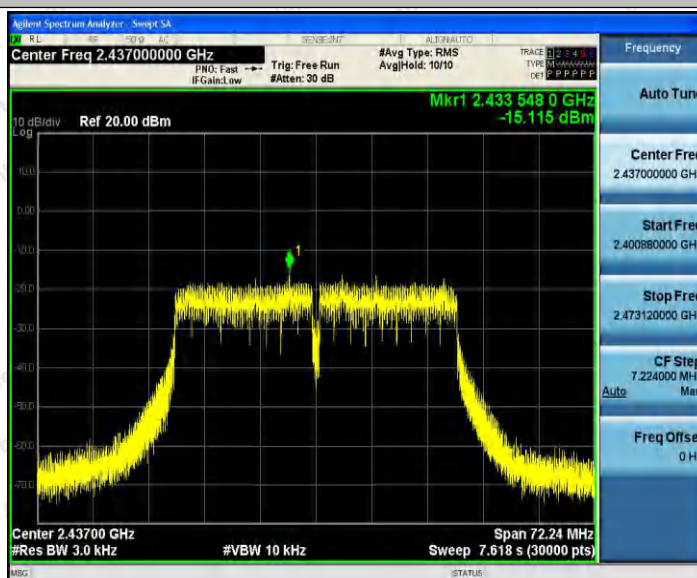
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11N40_Ant1_2437



11N40_Ant2_2437



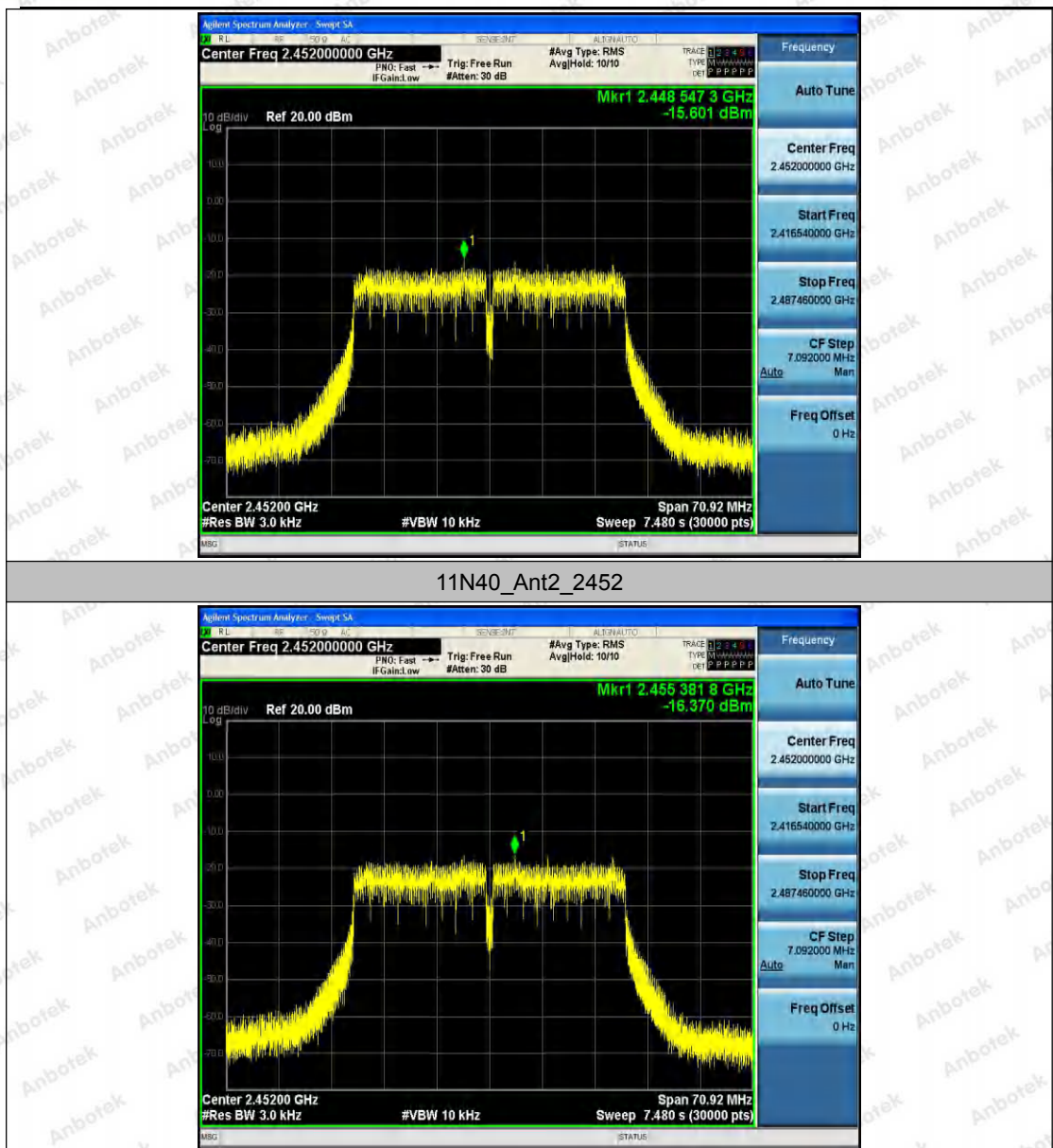
11N40_Ant1_2452

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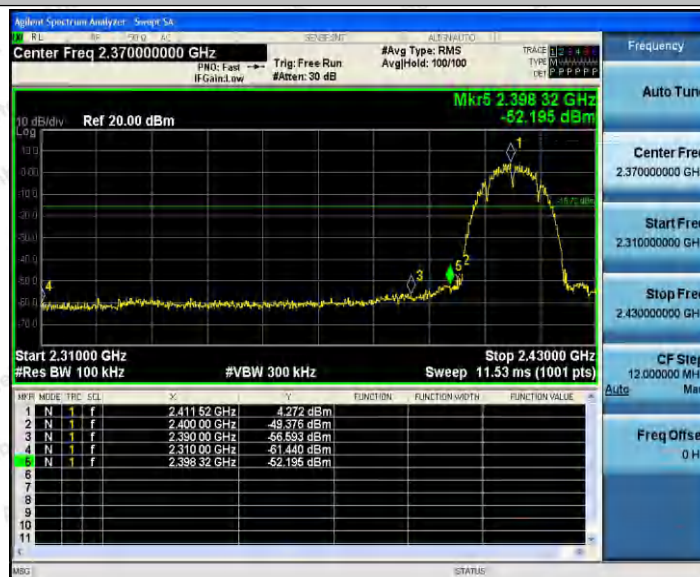
Appendix E: Band edge measurements

Test Result

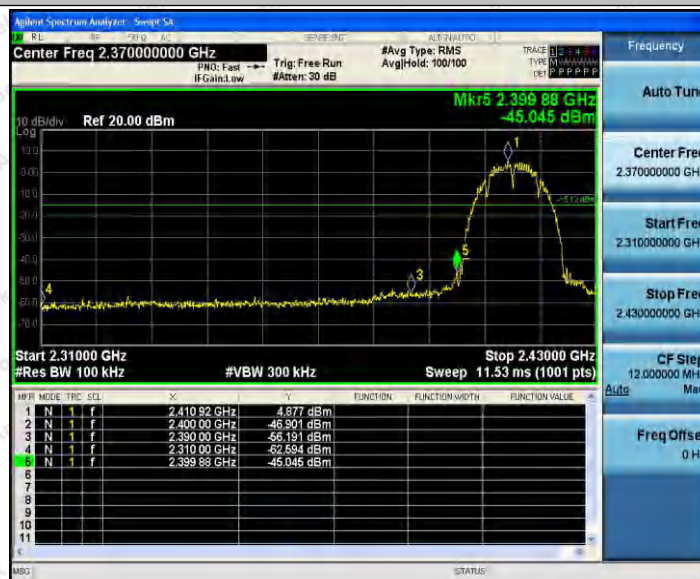
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.27	-52.2	≤ -15.73	PASS
	Ant2	Low	2412	4.88	-45.05	≤ -15.12	PASS
	Ant1	High	2462	3.63	-55.22	≤ -16.38	PASS
	Ant2	High	2462	5.00	-53.76	≤ -15	PASS
11G	Ant1	Low	2412	-1.03	-40.17	≤ -21.03	PASS
	Ant2	Low	2412	-1.60	-37.57	≤ -21.6	PASS
	Ant1	High	2462	-1.66	-55.36	≤ -21.66	PASS
	Ant2	High	2462	-1.13	-56.24	≤ -21.13	PASS
11N20	Ant1	Low	2412	-1.79	-40.15	≤ -21.79	PASS
	Ant2	Low	2412	-1.42	-39.99	≤ -21.42	PASS
	Ant1	High	2462	-1.36	-55.06	≤ -21.36	PASS
	Ant2	High	2462	-2.03	-55.74	≤ -22.03	PASS
11N40	Ant1	Low	2422	-5.81	-43.19	≤ -25.81	PASS
	Ant2	Low	2422	-5.89	-40.35	≤ -25.89	PASS
	Ant1	High	2452	-4.87	-49.63	≤ -24.87	PASS
	Ant2	High	2452	-6.03	-50.7	≤ -26.03	PASS

Test Graphs

11B_Ant1_Low_2412



11B_Ant2_Low_2412



11B_Ant1_High_2462

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11B_Ant2_High_2462



11G_Ant1_Low_2412



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11G_Ant2_Low_2412



11G_Ant1_High_2462



11G_Ant2_High_2462

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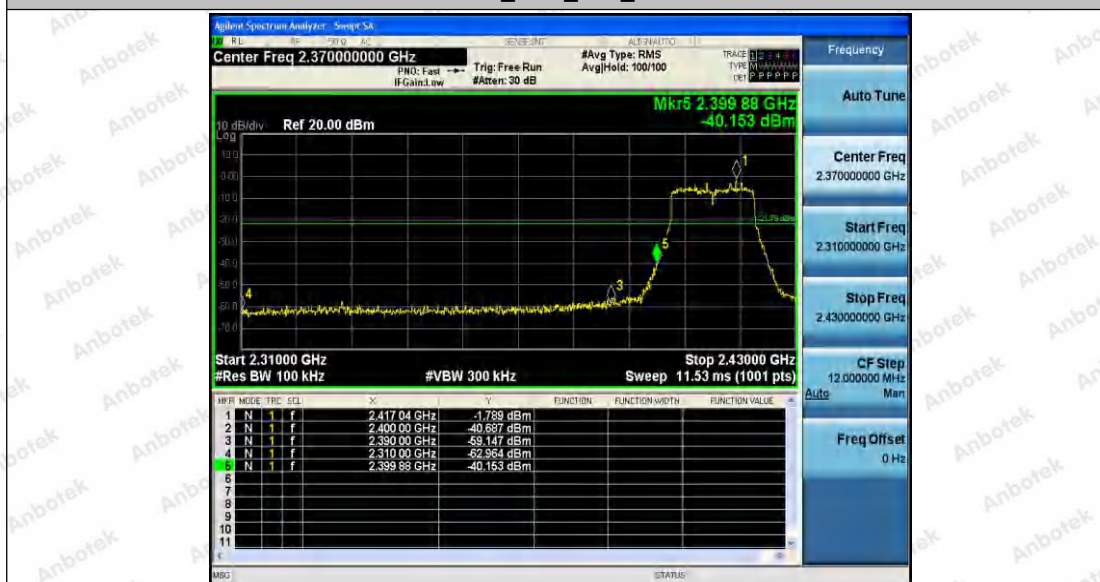
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11N20_Ant1_Low_2412



11N20_Ant2_Low_2412



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11N20_Ant1_High_2462



11N20_Ant2_High_2462



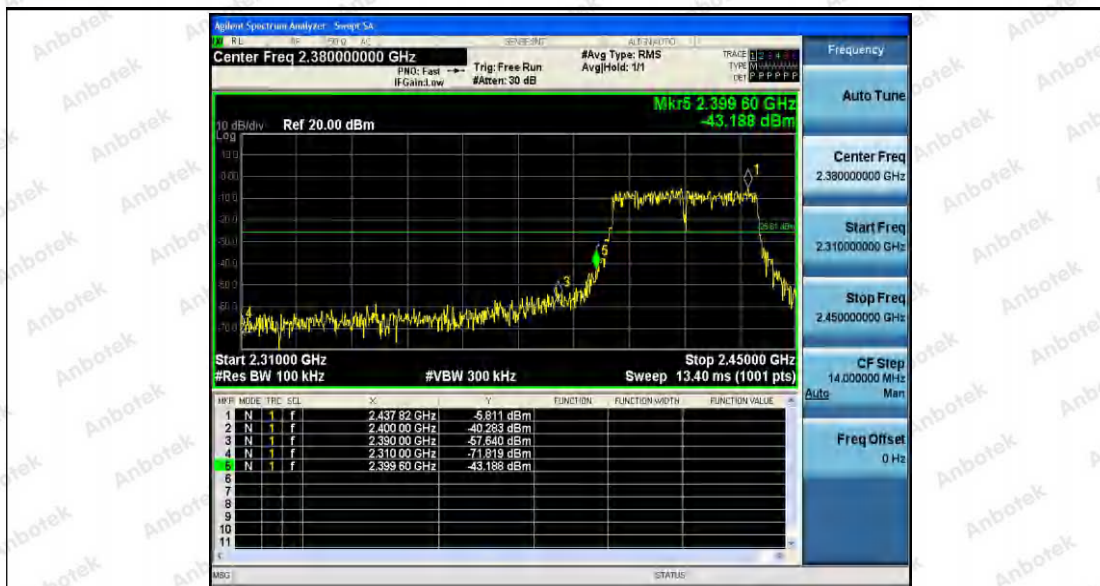
11N40_Ant1_Low_2422

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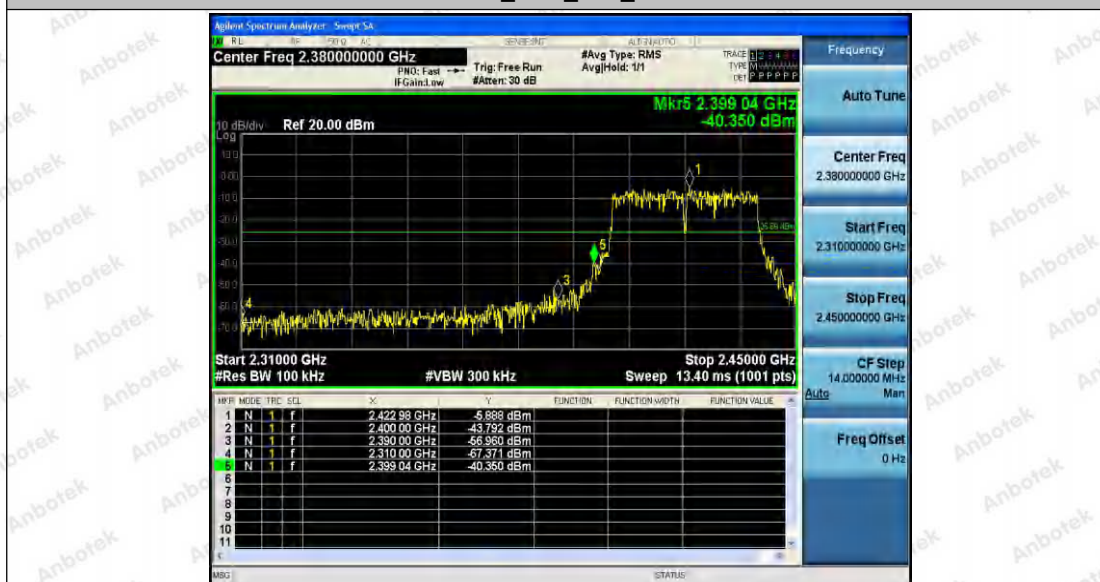
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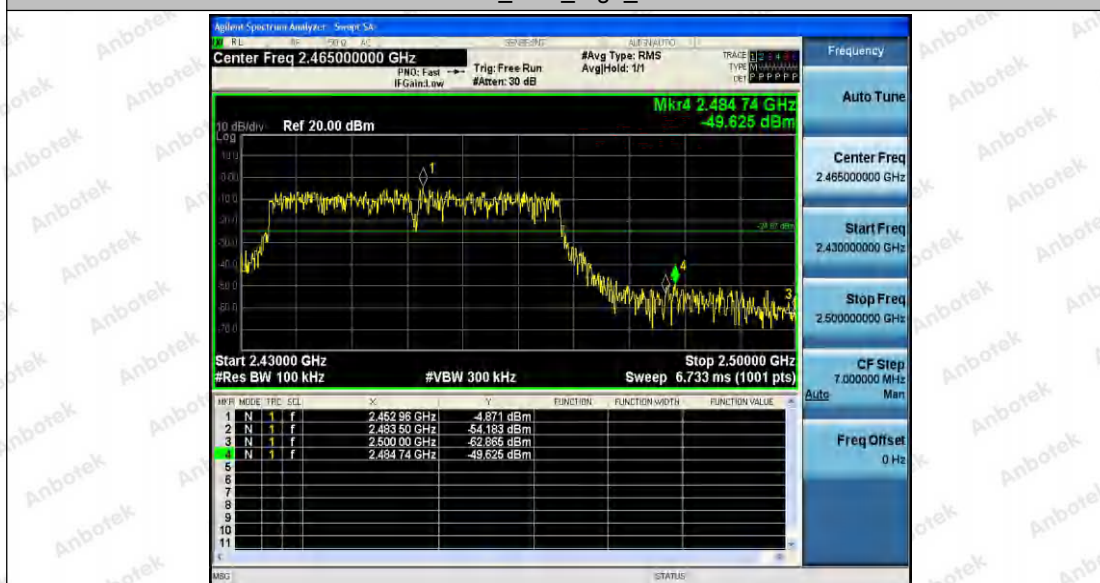
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11N40_Ant2_Low_2422



11N40_Ant1_High_2452

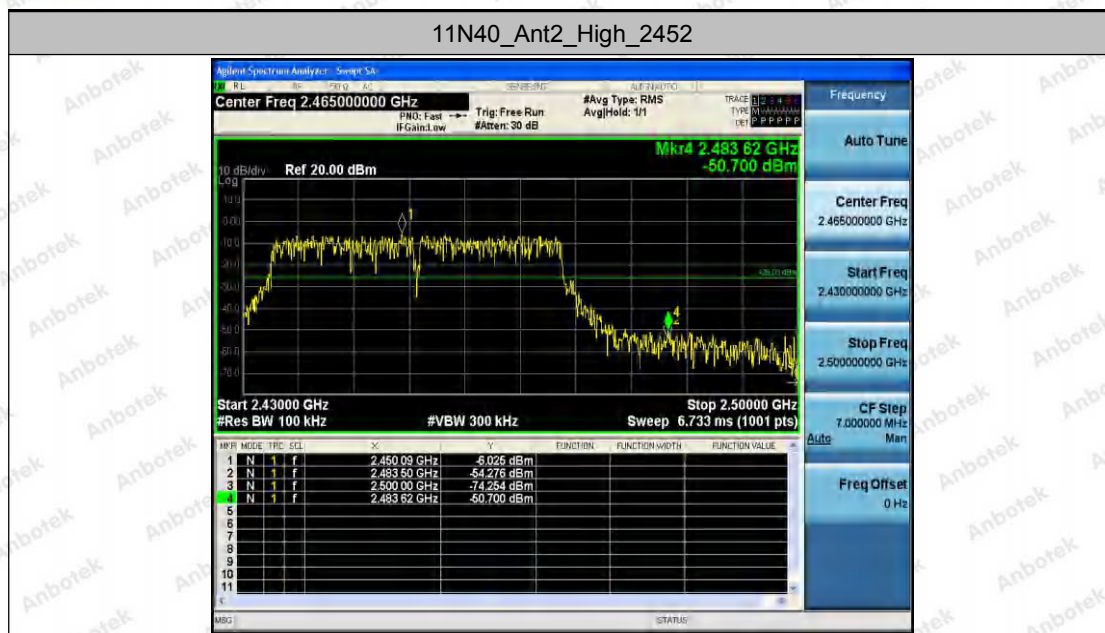


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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.81	3.81	---	PASS
			30~1000	3.81	-64.24	≤-16.19	PASS
			1000~26500	3.81	-55.37	≤-16.19	PASS
	Ant2	2412	Reference	4.82	4.82	---	PASS
			30~1000	4.82	-67.18	≤-15.18	PASS
			1000~26500	4.82	-52.49	≤-15.18	PASS
	Ant1	2437	Reference	3.94	3.94	---	PASS
			30~1000	3.94	-64.08	≤-16.06	PASS
			1000~26500	3.94	-55.15	≤-16.06	PASS
	Ant2	2437	Reference	5.56	5.56	---	PASS
			30~1000	5.56	-66.92	≤-14.44	PASS
			1000~26500	5.56	-55.05	≤-14.44	PASS
	Ant1	2462	Reference	4.17	4.17	---	PASS
			30~1000	4.17	-63.95	≤-15.83	PASS
			1000~26500	4.17	-55.51	≤-15.83	PASS
	Ant2	2462	Reference	5.17	5.17	---	PASS
			30~1000	5.17	-67.12	≤-14.83	PASS
			1000~26500	5.17	-54.51	≤-14.83	PASS
11G	Ant1	2412	Reference	-1.83	-1.83	---	PASS
			30~1000	-1.83	-65.3	≤-21.83	PASS
			1000~26500	-1.83	-55.58	≤-21.83	PASS
	Ant2	2412	Reference	-1.67	-1.67	---	PASS
			30~1000	-1.67	-63.35	≤-21.67	PASS
			1000~26500	-1.67	-54.22	≤-21.67	PASS
	Ant1	2437	Reference	-2.13	-2.13	---	PASS
			30~1000	-2.13	-63.9	≤-22.13	PASS
			1000~26500	-2.13	-55.32	≤-22.13	PASS
	Ant2	2437	Reference	-1.07	-1.07	---	PASS
			30~1000	-1.07	-65.26	≤-21.07	PASS
			1000~26500	-1.07	-56.04	≤-21.07	PASS
	Ant1	2462	Reference	-1.22	-1.22	---	PASS
			30~1000	-1.22	-64.75	≤-21.22	PASS
			1000~26500	-1.22	-54.78	≤-21.22	PASS
	Ant2	2462	Reference	-1.93	-1.93	---	PASS
			30~1000	-1.93	-64.21	≤-21.93	PASS
			1000~26500	-1.93	-55.18	≤-21.93	PASS
11N20	Ant1	2412	Reference	-1.74	-1.74	---	PASS

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	Ant2	2412	30~1000	-1.74	-65.49	≤ -21.74	PASS
			1000~26500	-1.74	-55.16	≤ -21.74	PASS
			Reference	-1.82	-1.82	---	PASS
			30~1000	-1.82	-64.21	≤ -21.82	PASS
			1000~26500	-1.82	-55.78	≤ -21.82	PASS
			Reference	-2.31	-2.31	---	PASS
	Ant1	2437	30~1000	-2.31	-63.4	≤ -22.31	PASS
			1000~26500	-2.31	-54.76	≤ -22.31	PASS
			Reference	-0.97	-0.97	---	PASS
	Ant2	2437	30~1000	-0.97	-64.83	≤ -20.97	PASS
			1000~26500	-0.97	-55.23	≤ -20.97	PASS
			Reference	-1.15	-1.15	---	PASS
	Ant1	2462	30~1000	-1.15	-67.62	≤ -21.15	PASS
			1000~26500	-1.15	-55.72	≤ -21.15	PASS
			Reference	-1.62	-1.62	---	PASS
	Ant2	2462	30~1000	-1.62	-65.7	≤ -21.62	PASS
			1000~26500	-1.62	-55.33	≤ -21.62	PASS
			Reference	-4.53	-4.53	---	PASS
11N40	Ant1	2422	30~1000	-4.53	-65.87	≤ -24.53	PASS
			1000~26500	-4.53	-54.73	≤ -24.53	PASS
			Reference	-4.30	-4.30	---	PASS
	Ant2	2422	30~1000	-4.30	-65.85	≤ -24.3	PASS
			1000~26500	-4.30	-54.87	≤ -24.3	PASS
			Reference	-0.14	-0.14	---	PASS
	Ant1	2437	30~1000	-0.14	-64.96	≤ -20.14	PASS
			1000~26500	-0.14	-55.71	≤ -20.14	PASS
			Reference	-4.68	-4.68	---	PASS
	Ant2	2437	30~1000	-4.68	-66.77	≤ -24.68	PASS
			1000~26500	-4.68	-54.74	≤ -24.68	PASS
			Reference	-4.69	-4.69	---	PASS
	Ant1	2452	30~1000	-4.69	-65.8	≤ -24.69	PASS
			1000~26500	-4.69	-55.12	≤ -24.69	PASS
			Reference	-4.83	-4.83	---	PASS
	Ant2	2452	30~1000	-4.83	-66.36	≤ -24.83	PASS
			1000~26500	-4.83	-55.57	≤ -24.83	PASS
			Reference	-4.83	-4.83	---	PASS

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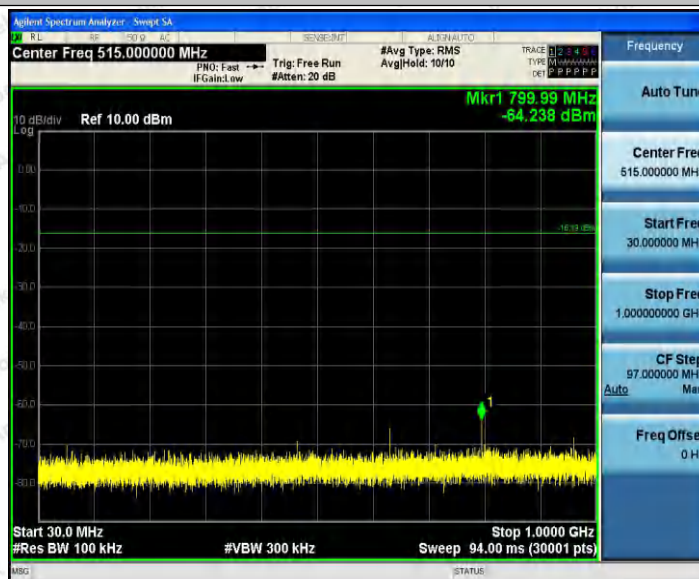
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Test Graphs

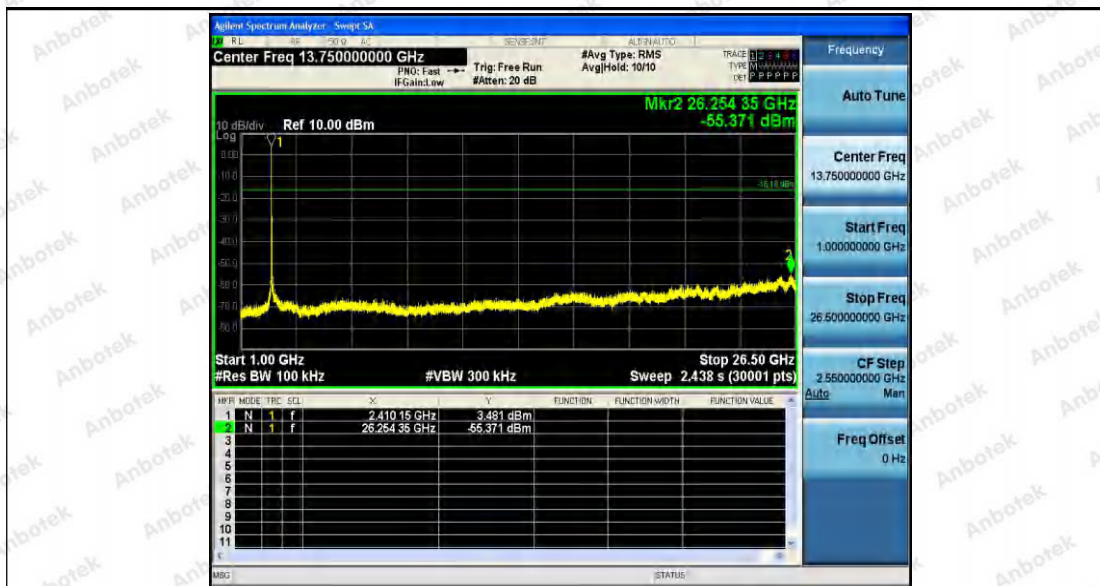
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11B_Ant1_2412_30~1000



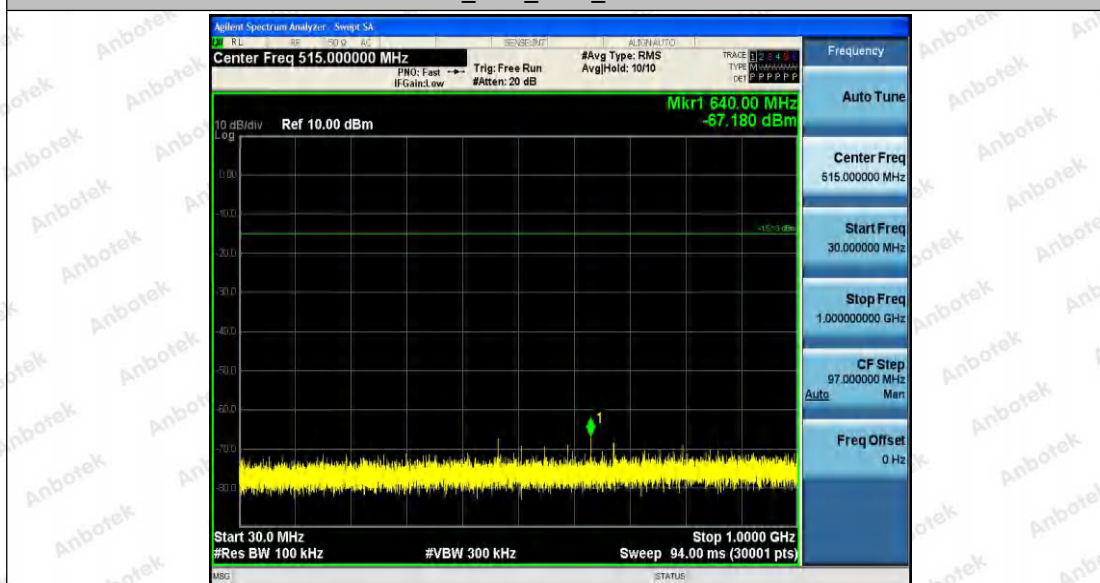
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11B_Ant2_2412_30~1000



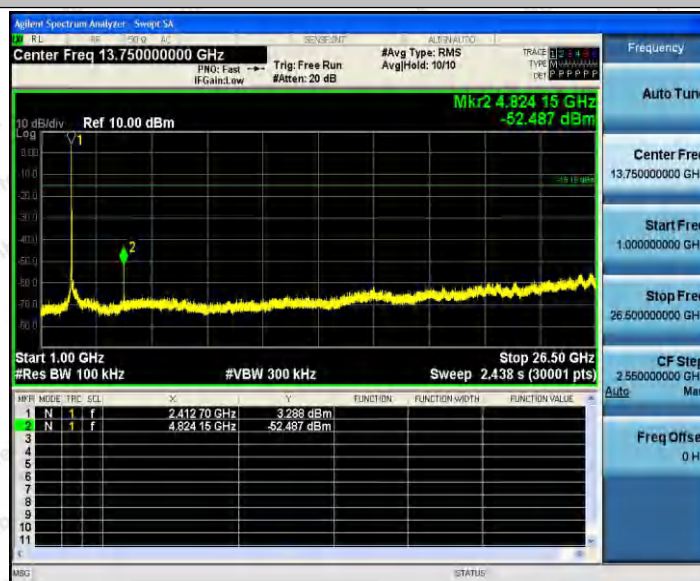
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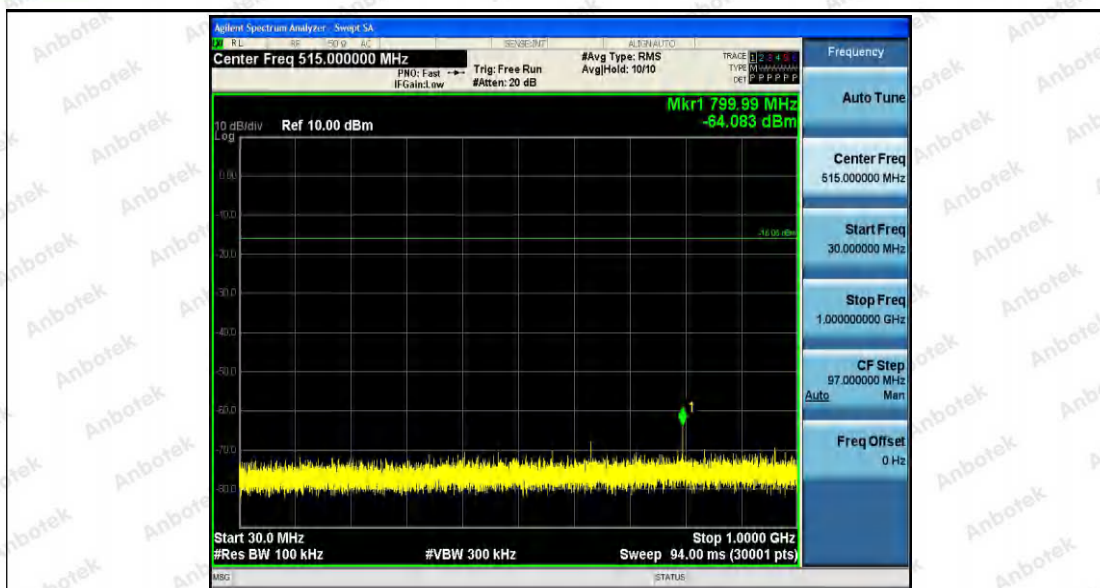
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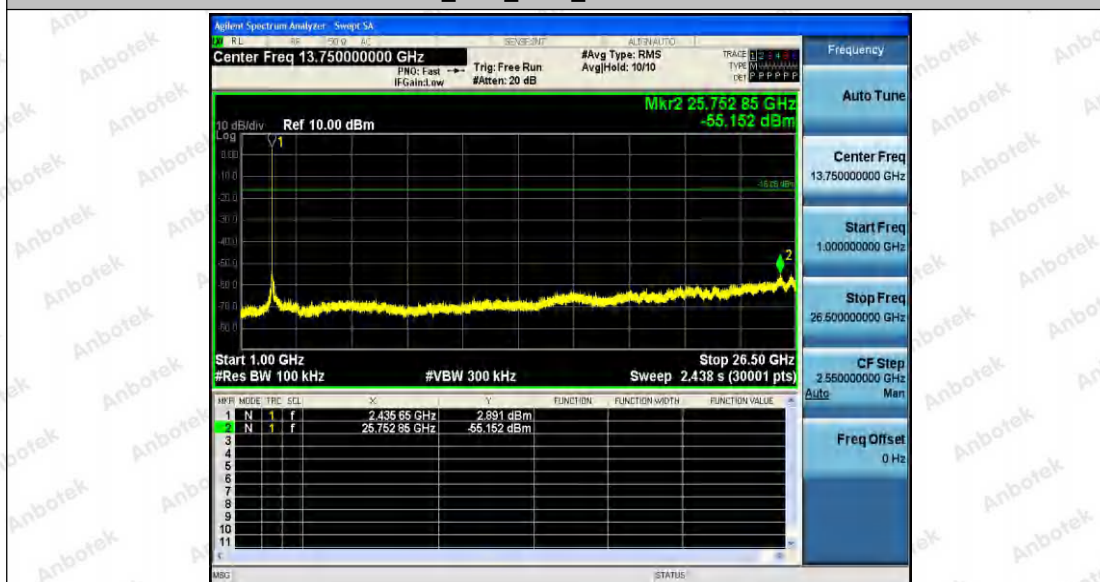
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11B_Ant1_2437_1000~26500



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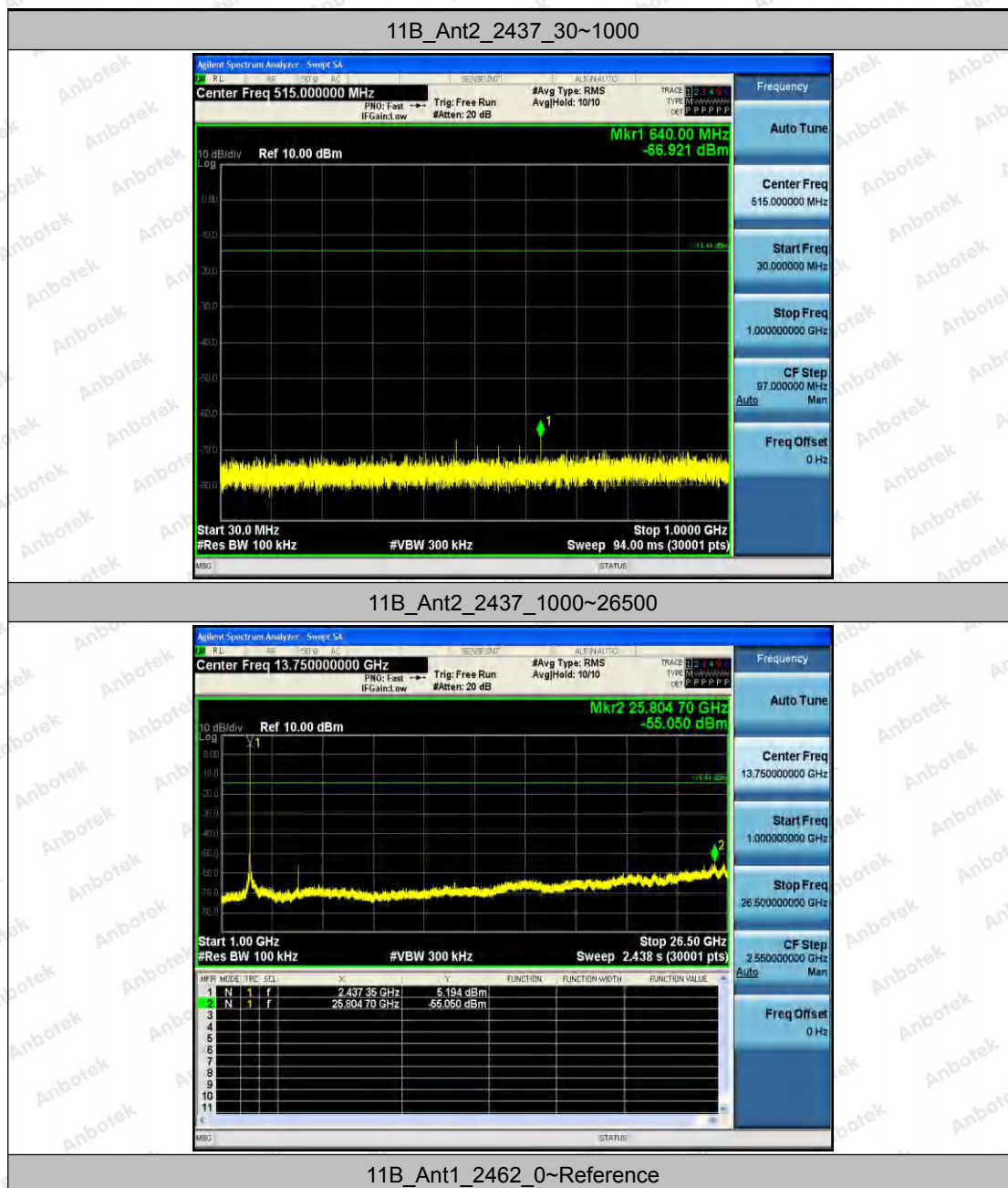


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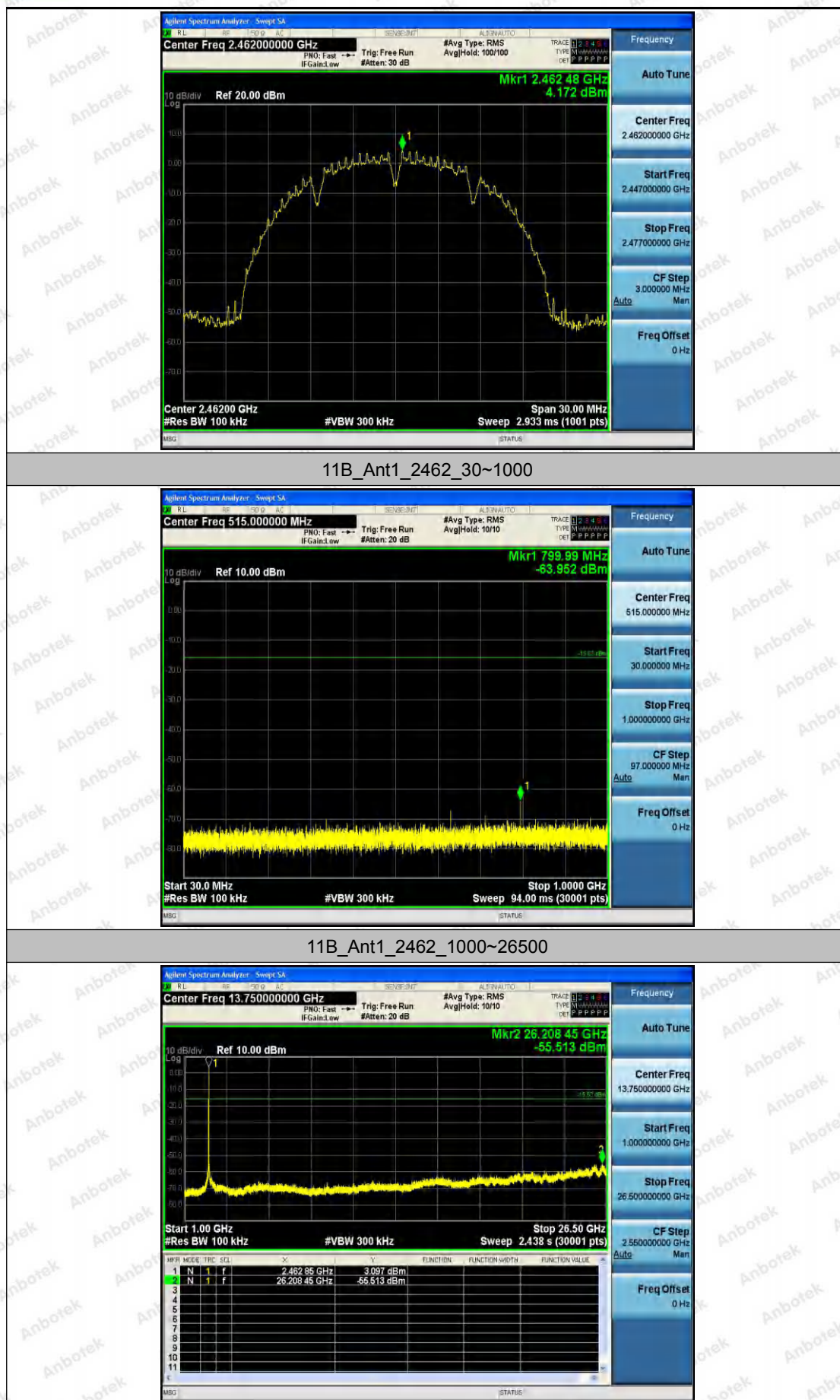


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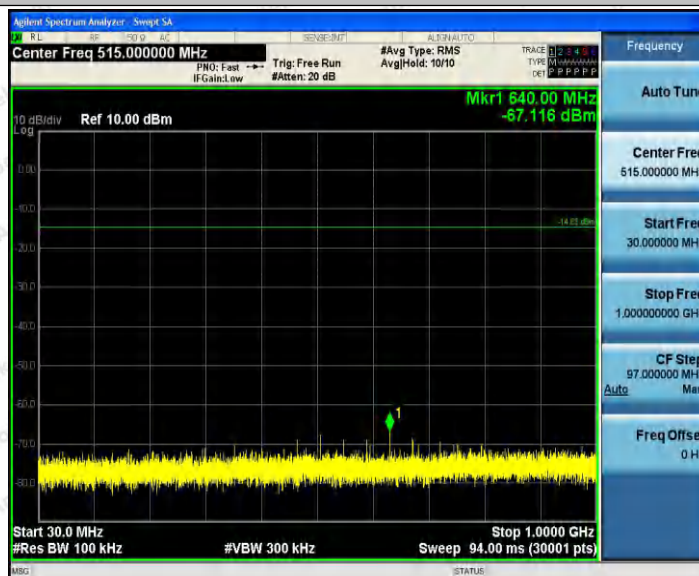
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11B_Ant2_2462_30~1000



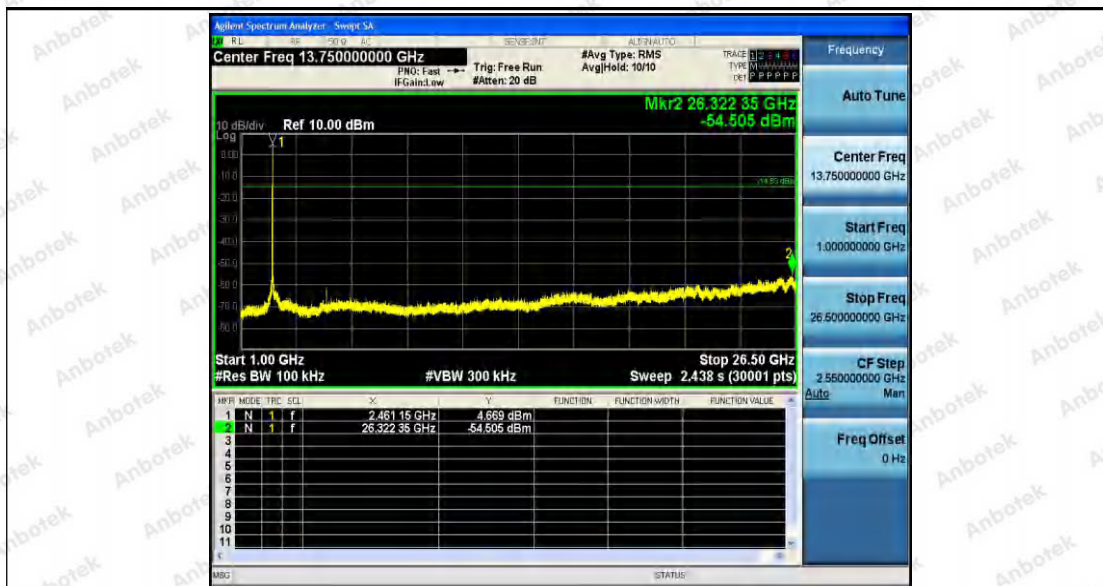
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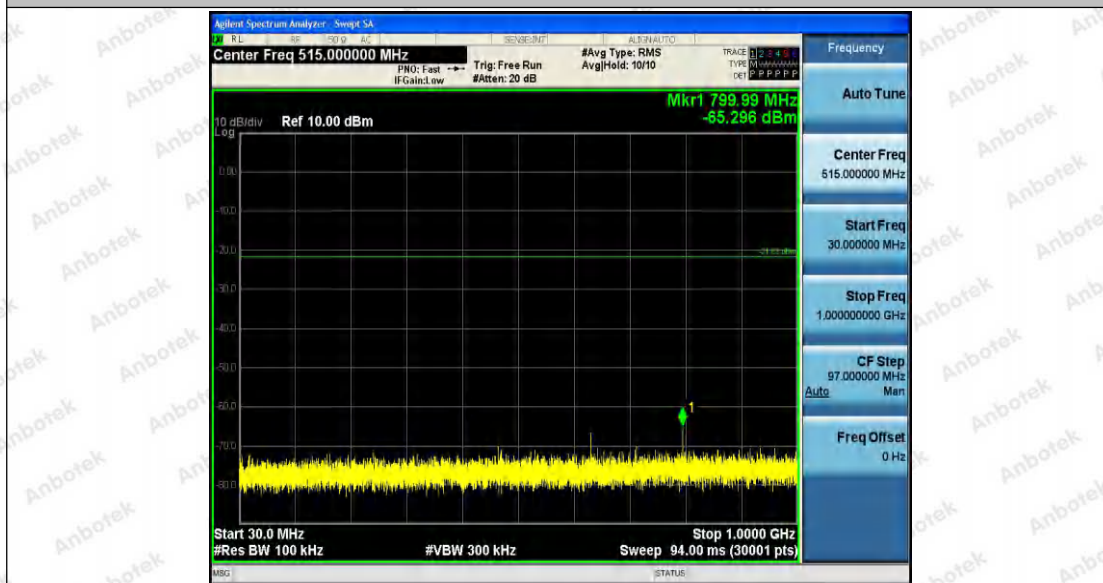
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11G_Ant1_2412_30~1000



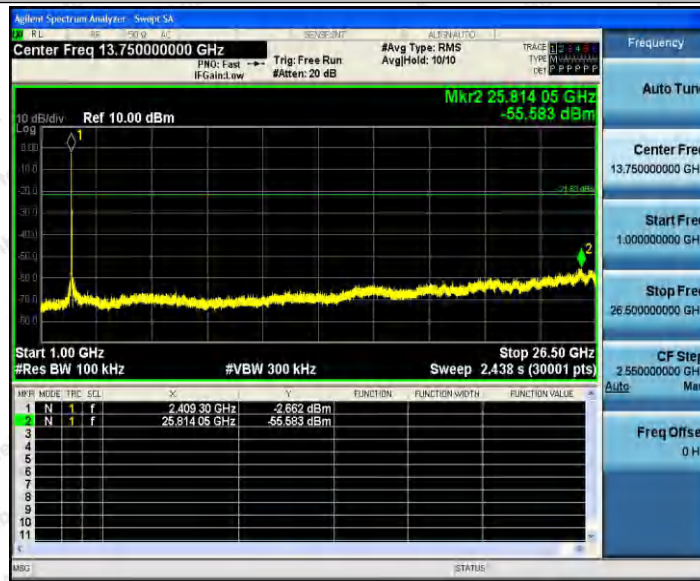
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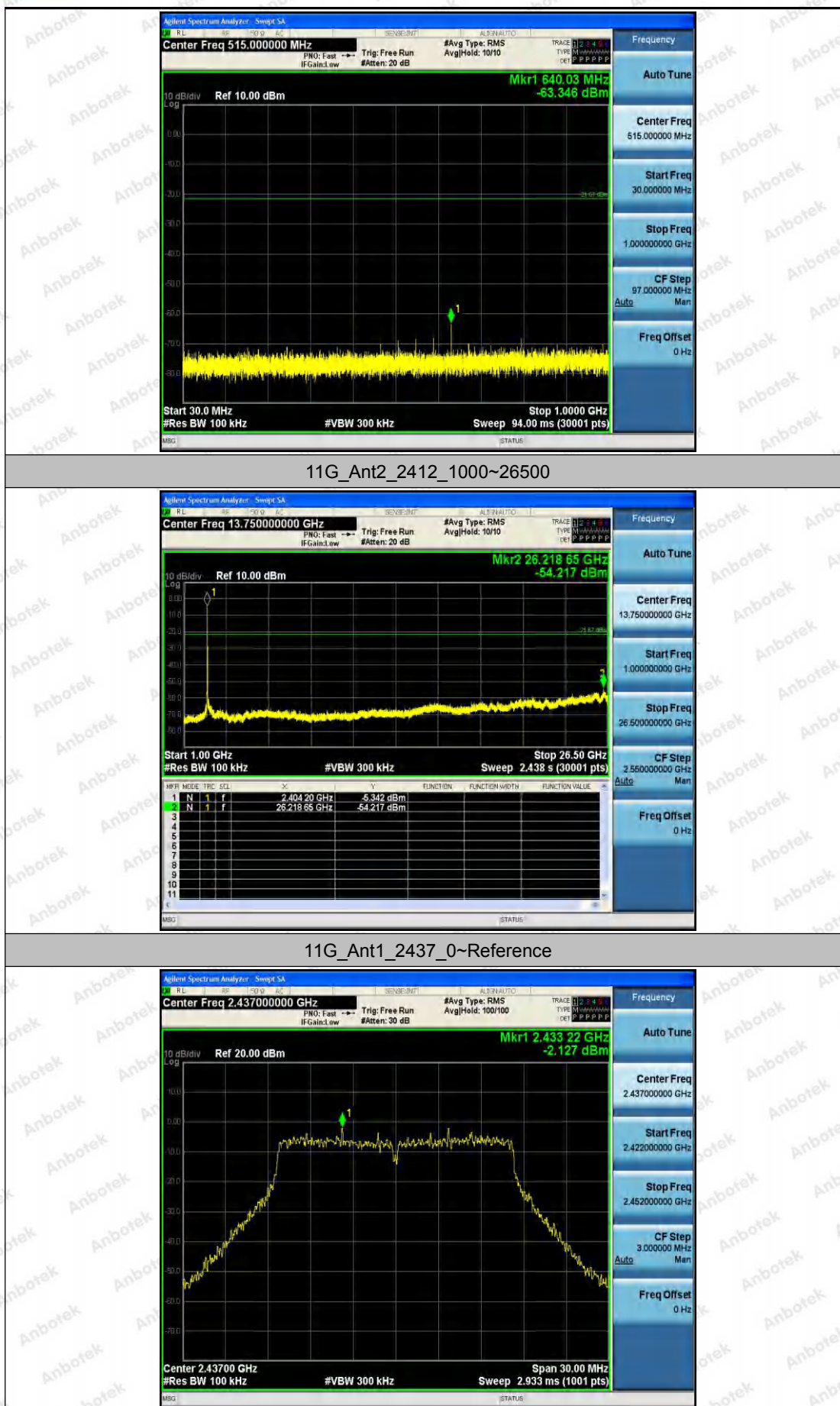
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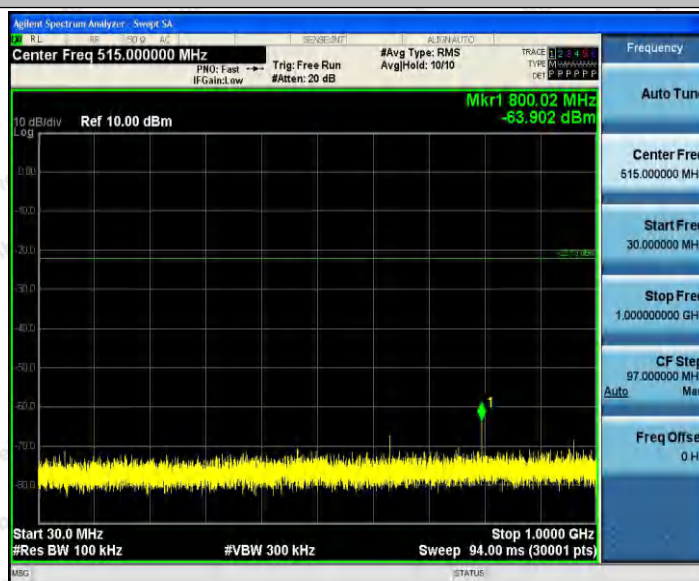
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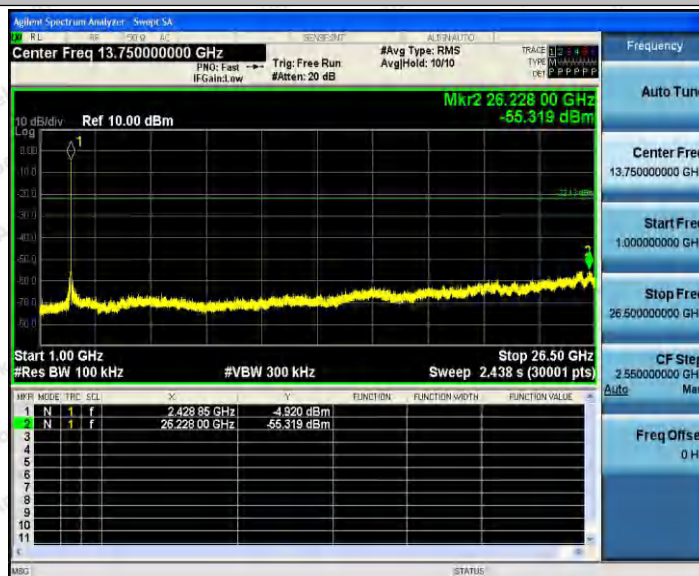
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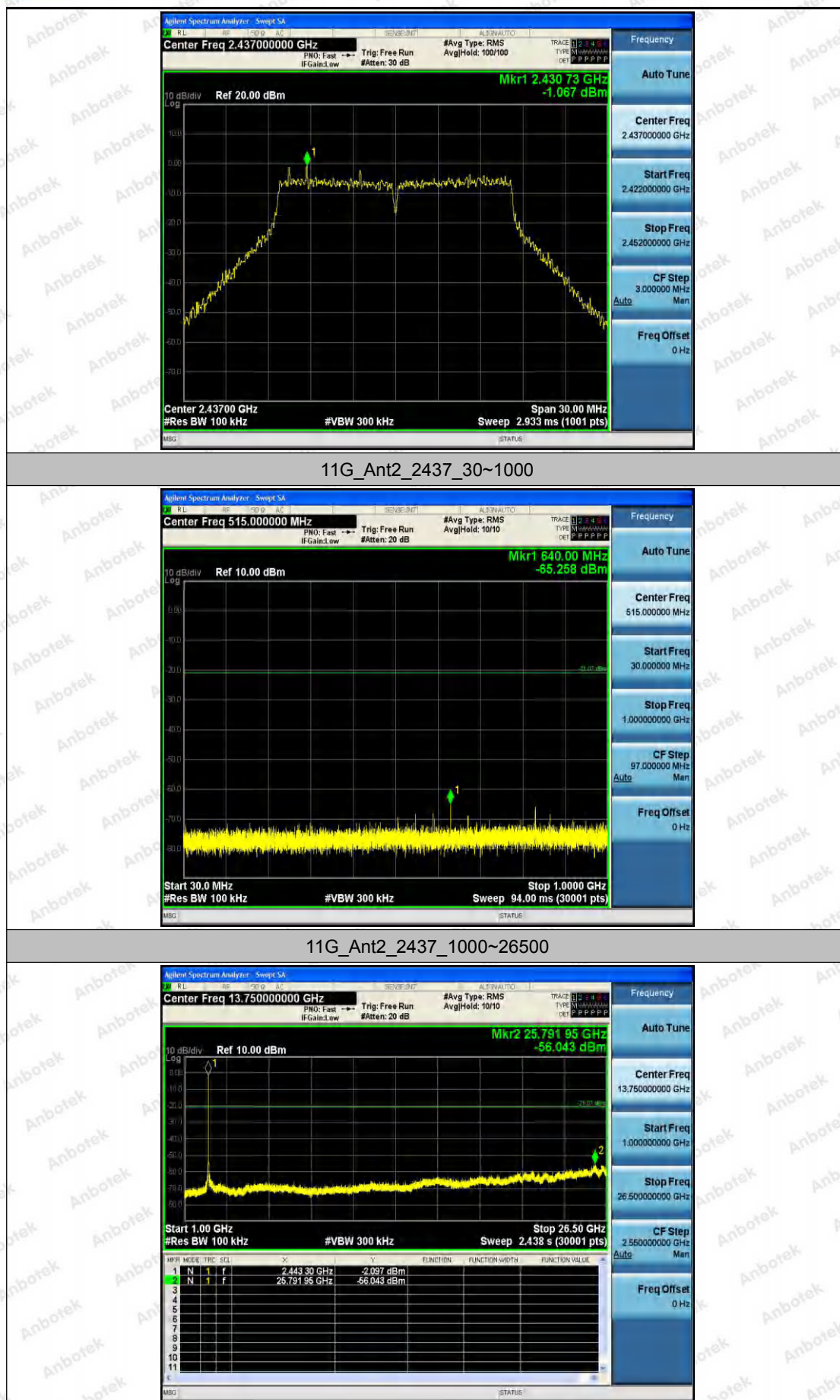
11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



11G_Ant2_2437_0~Reference



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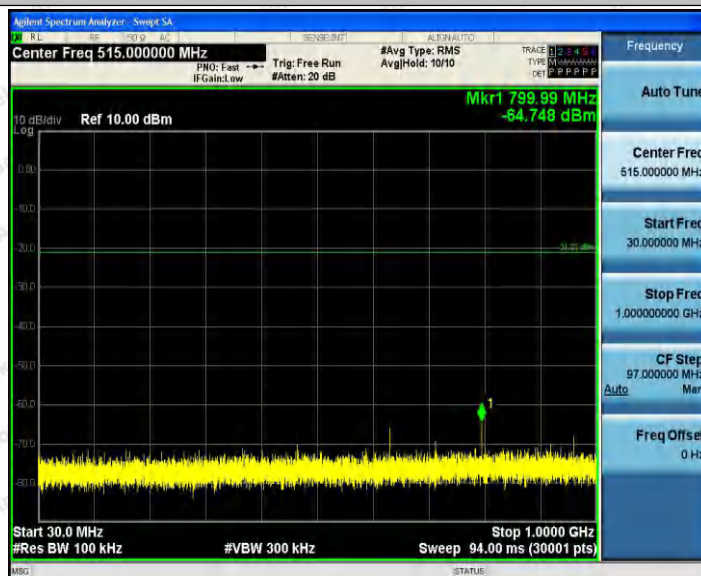
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500

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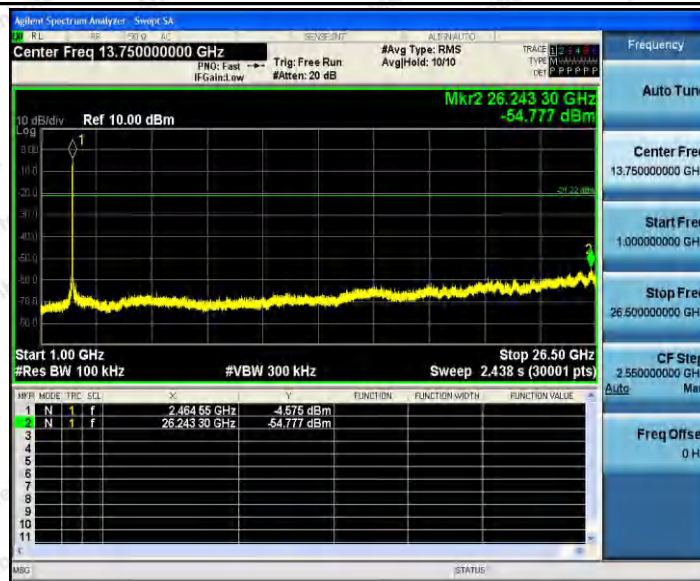
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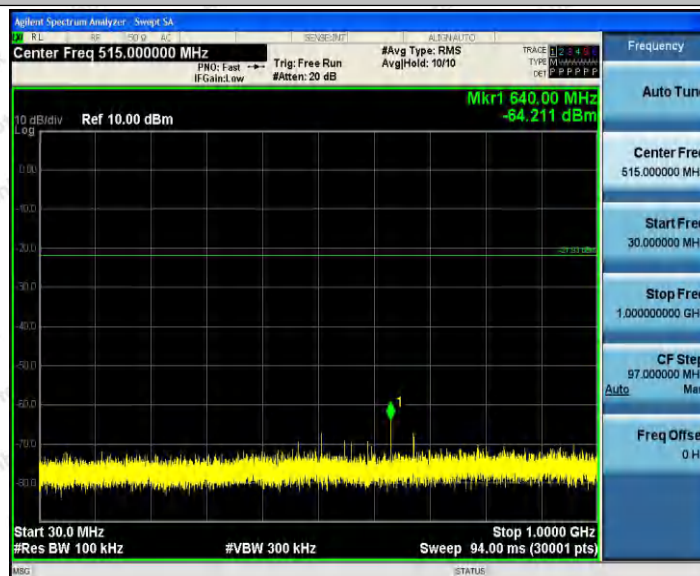
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11G_Ant2_2462_0~Reference



11G_Ant2_2462_30~1000



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11G_Ant2_2462_1000~26500



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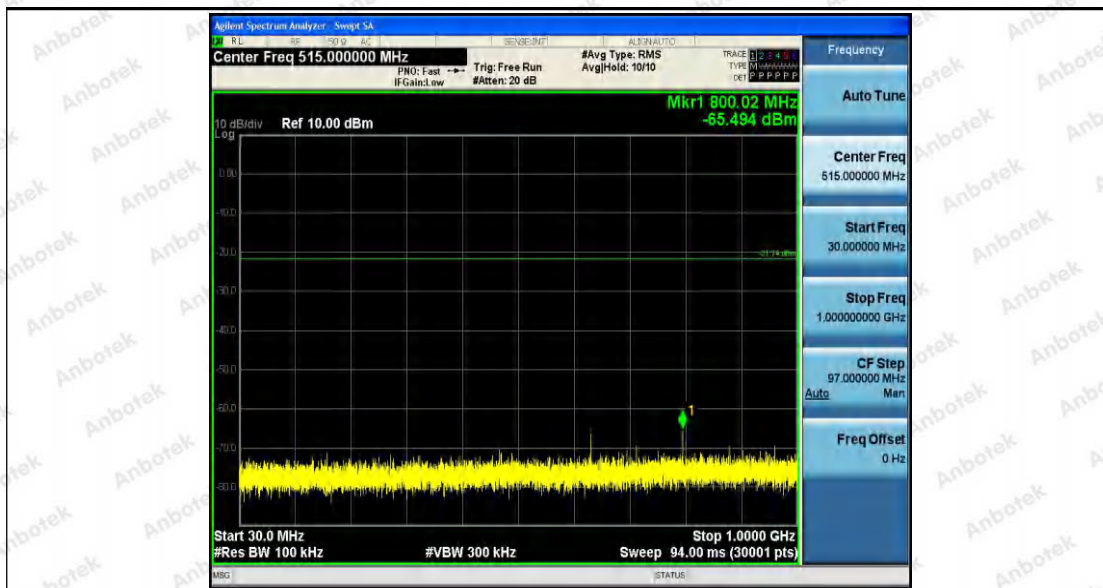
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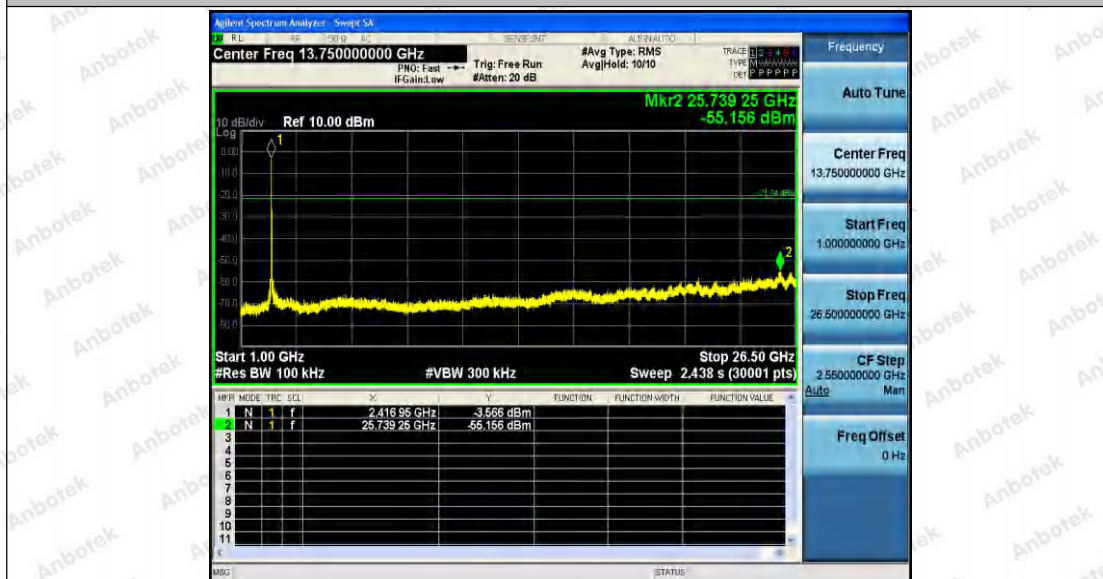
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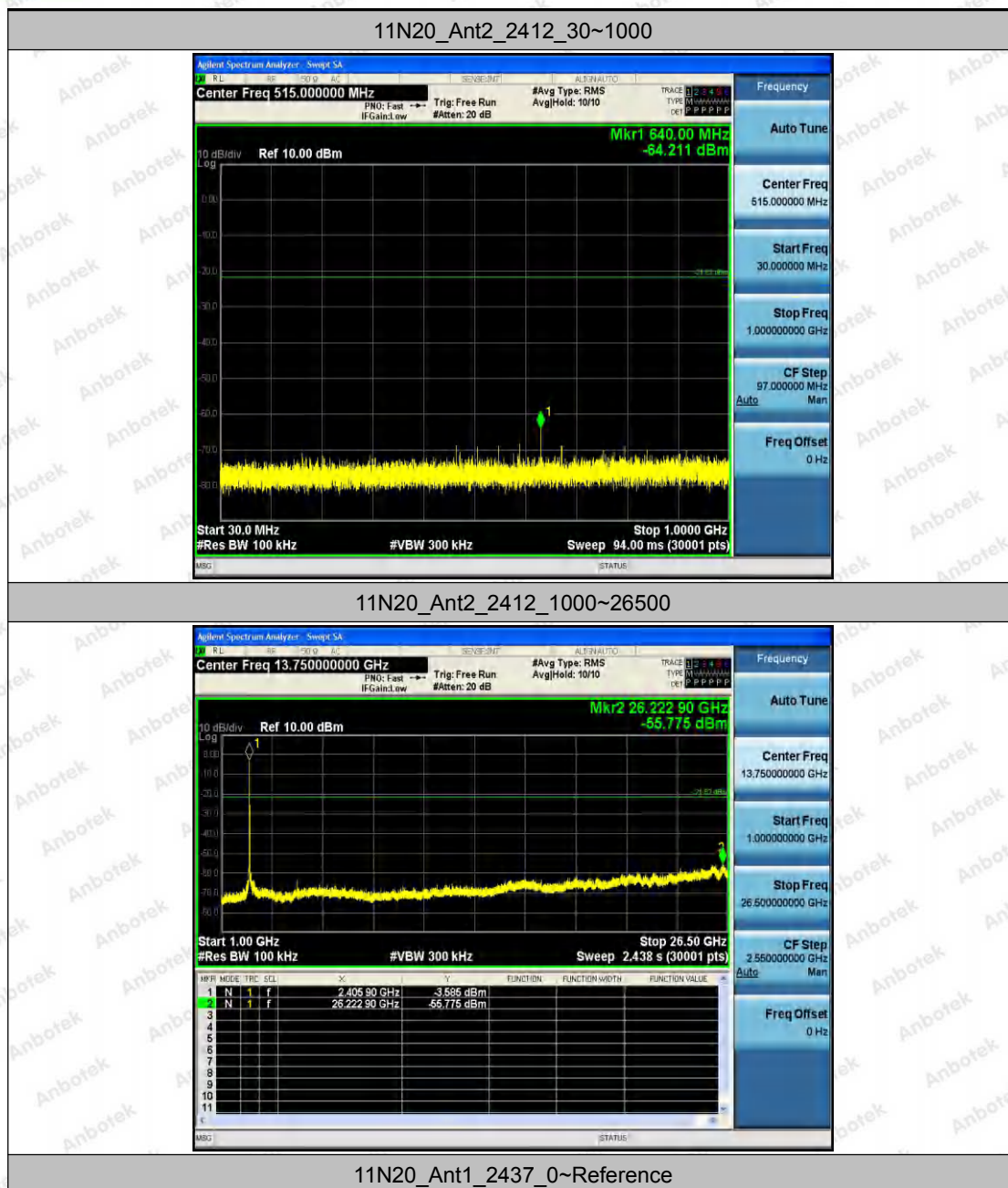


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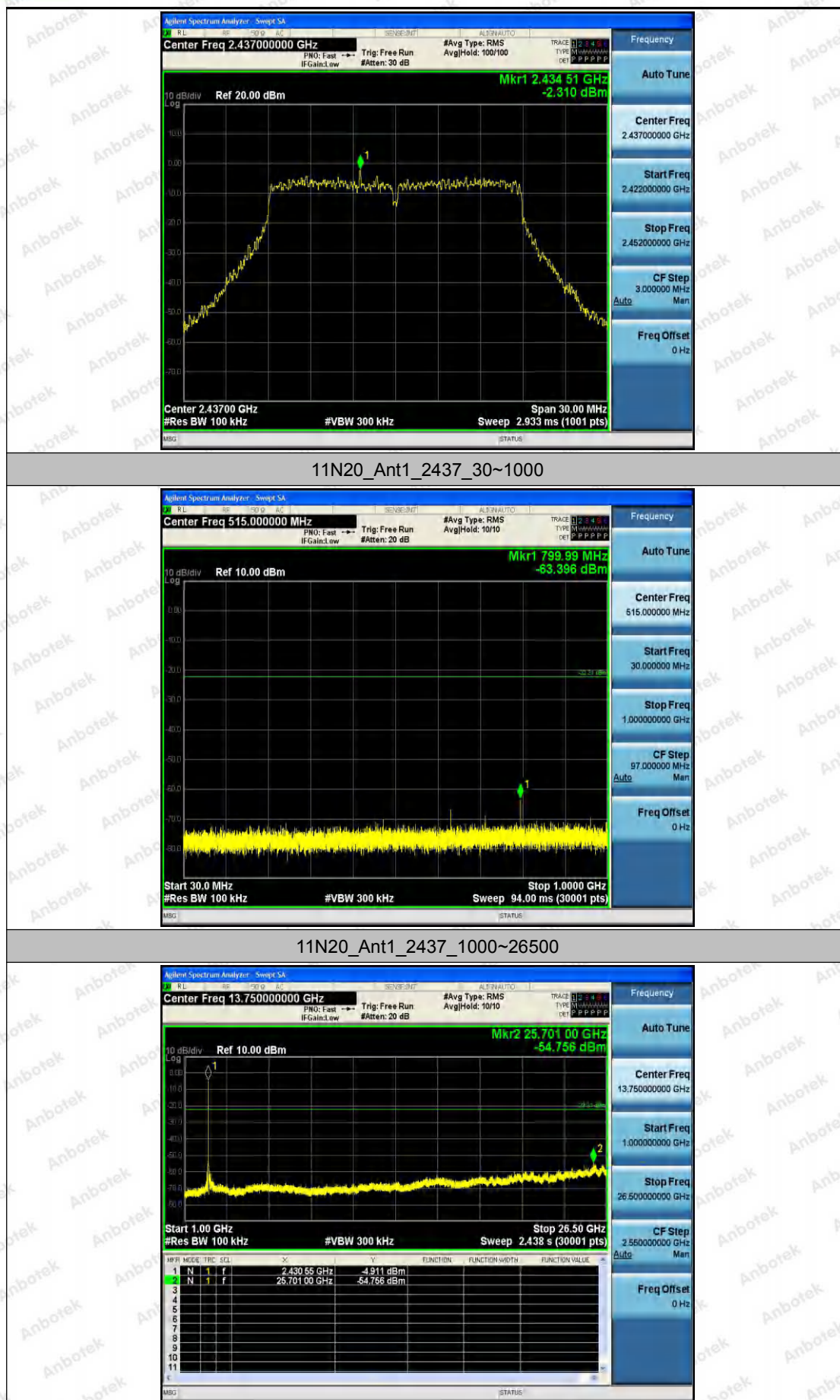


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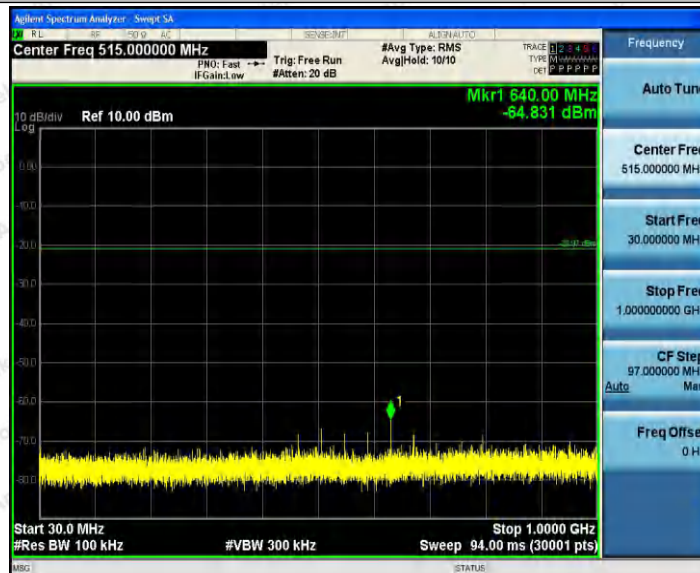
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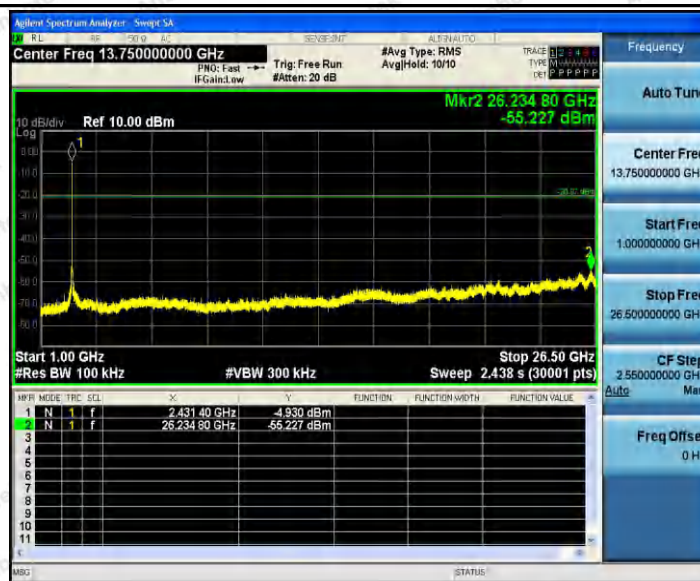
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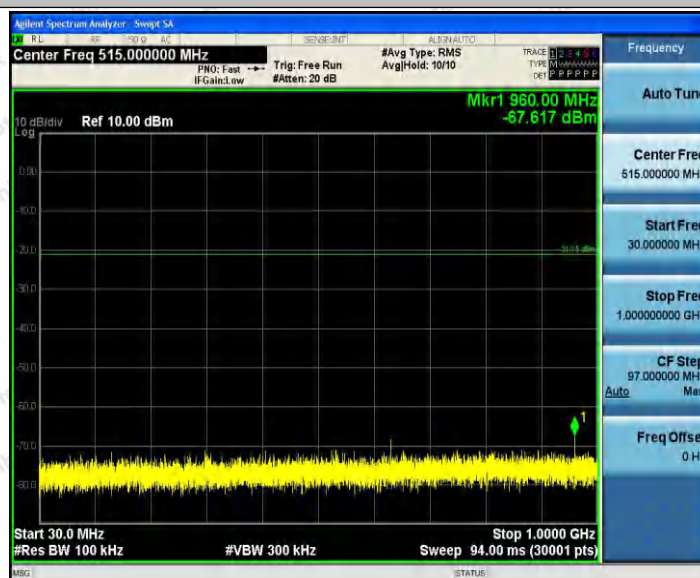
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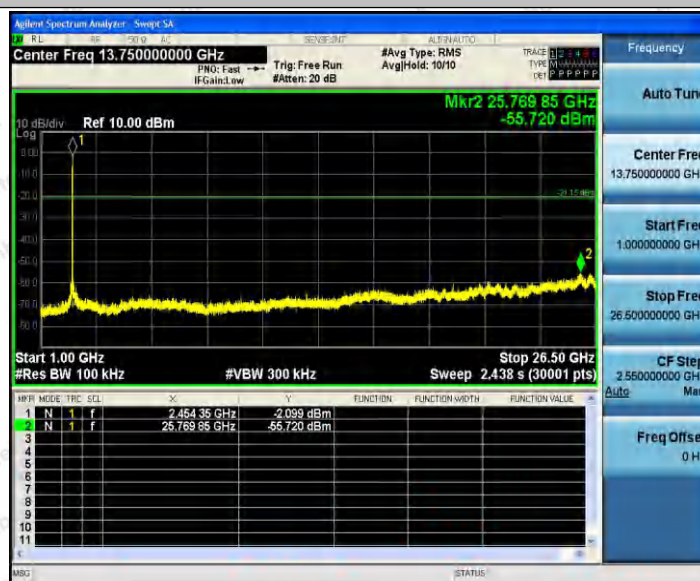
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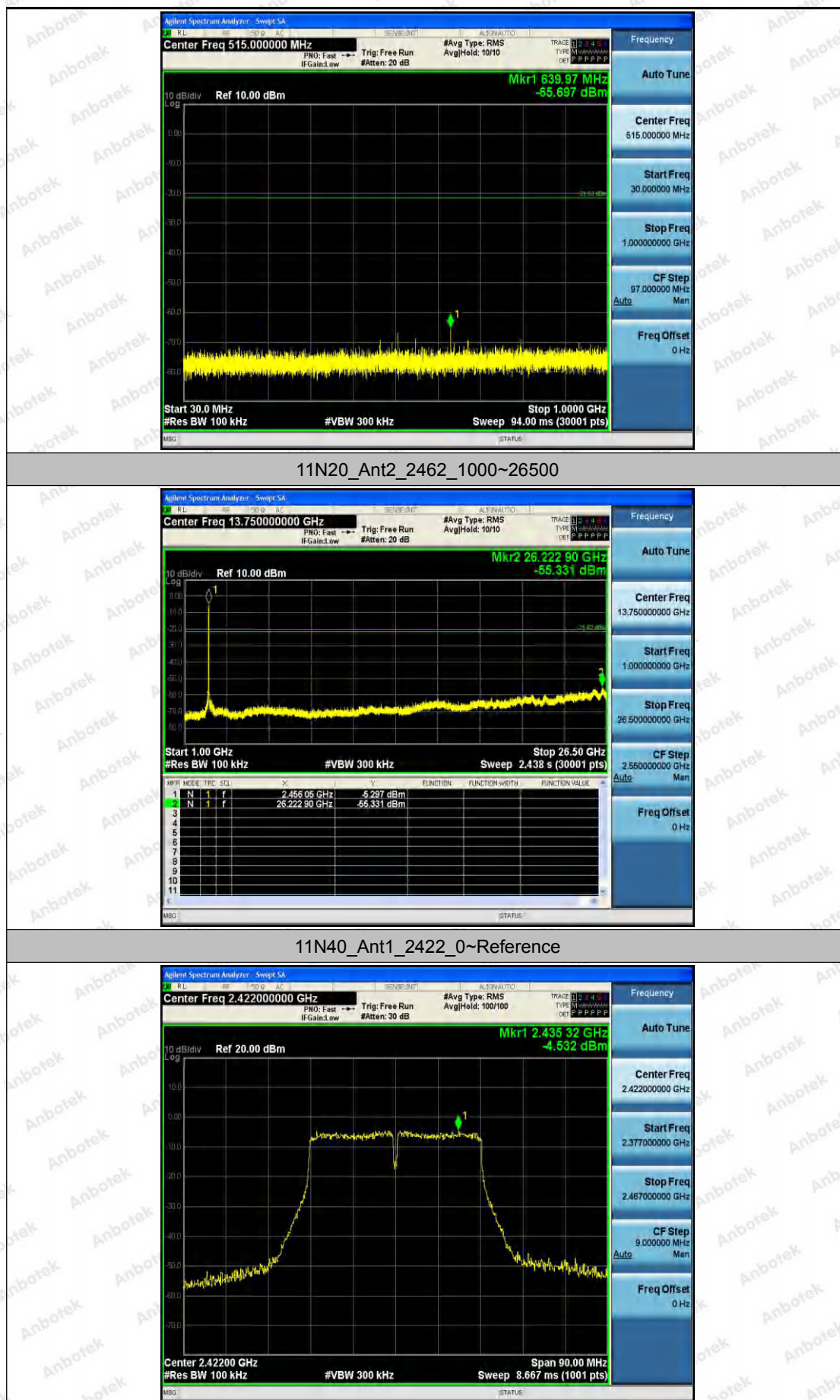
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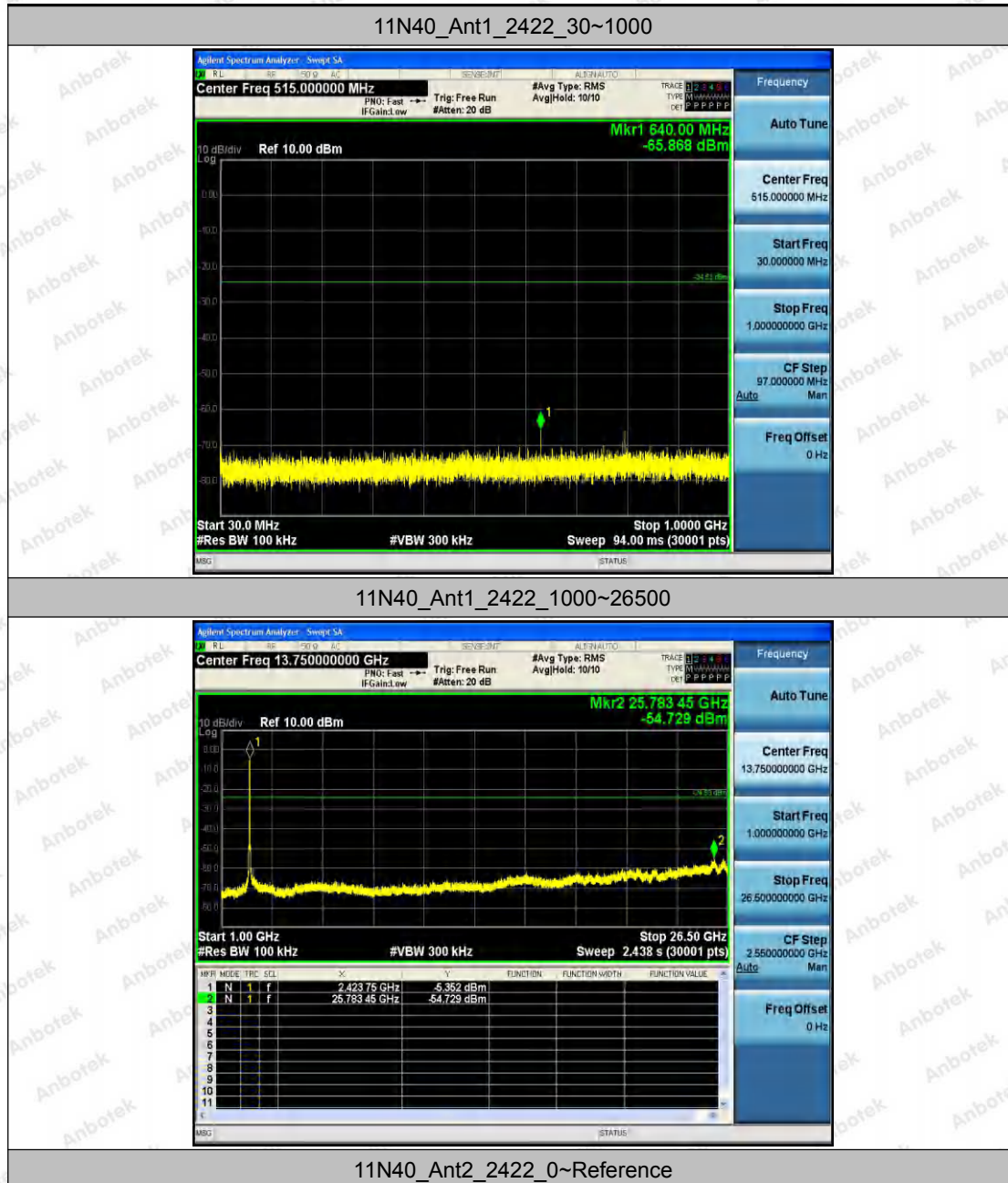


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11N40_Ant2_2422_0~Reference

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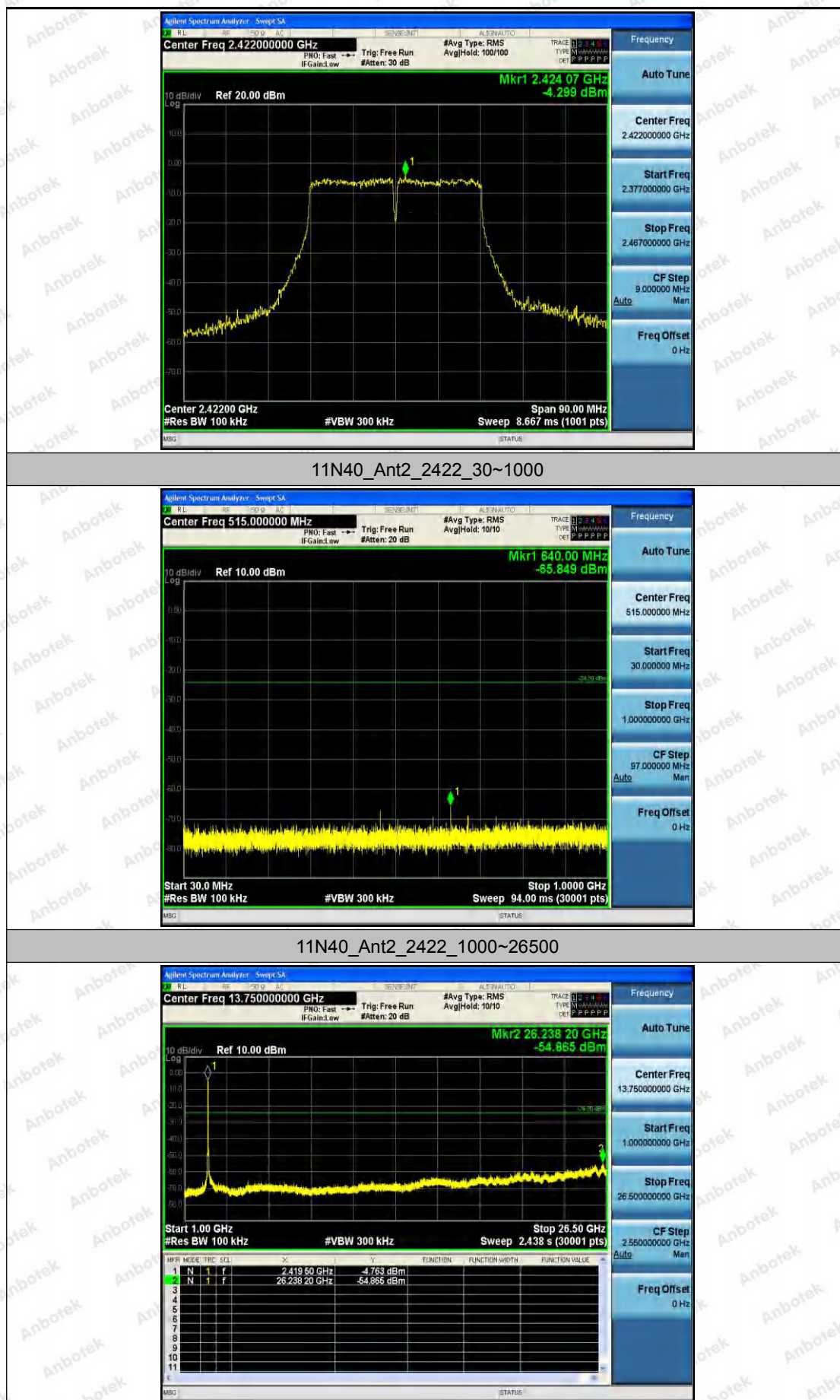
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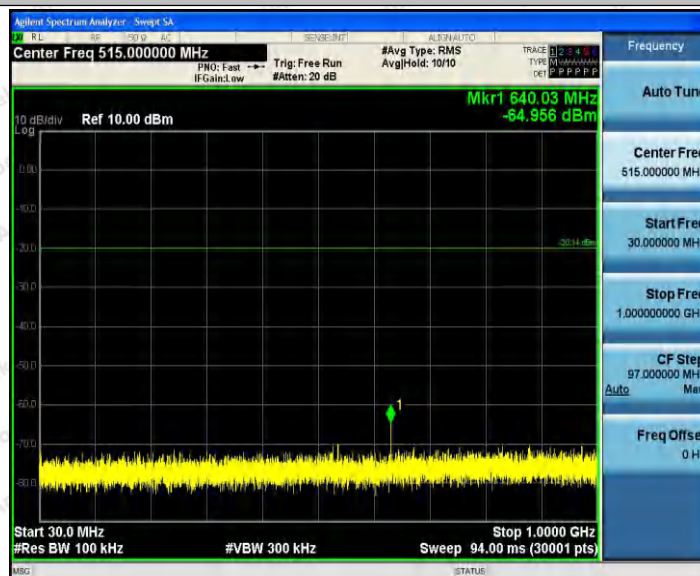
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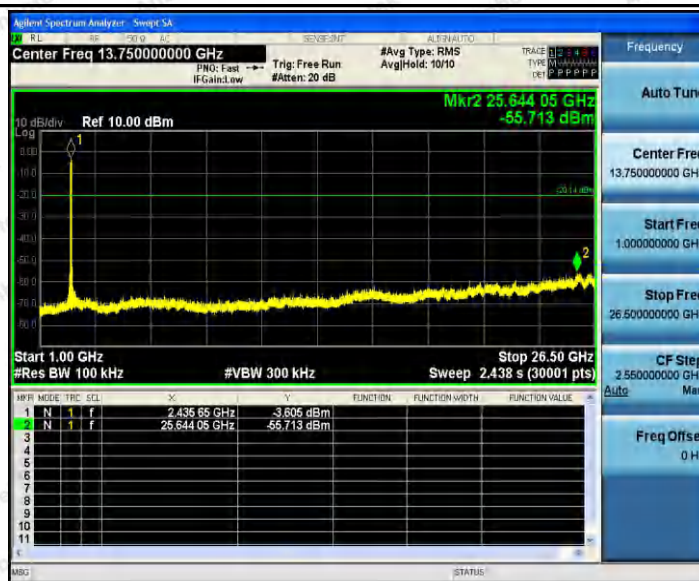
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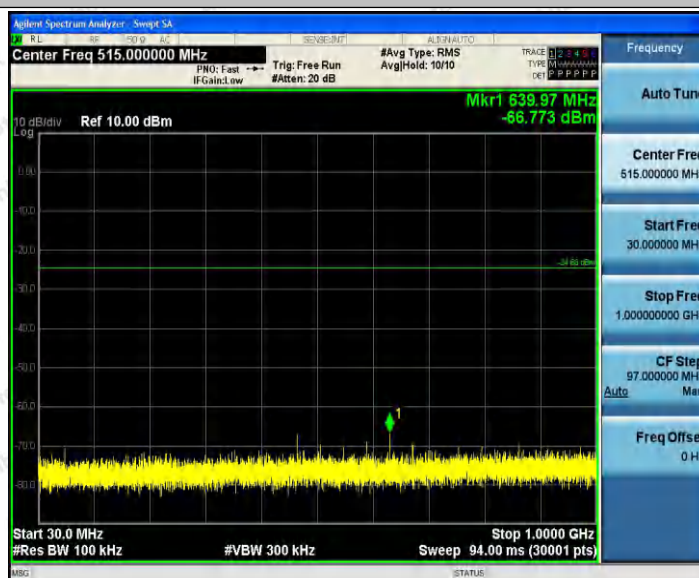
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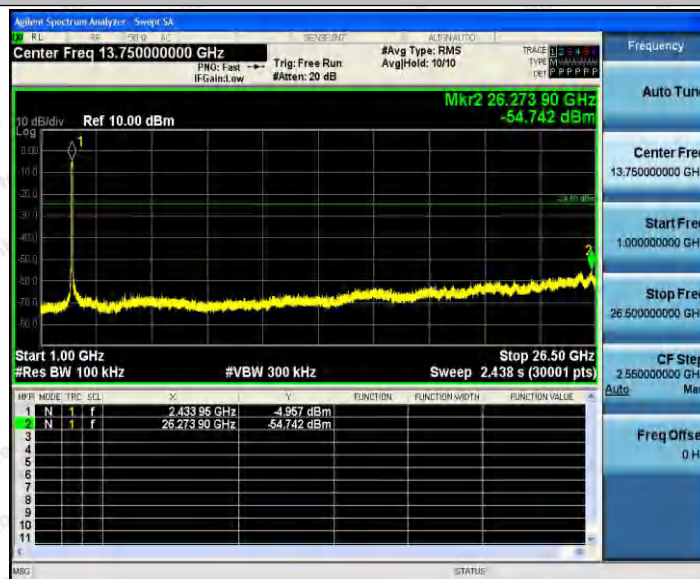
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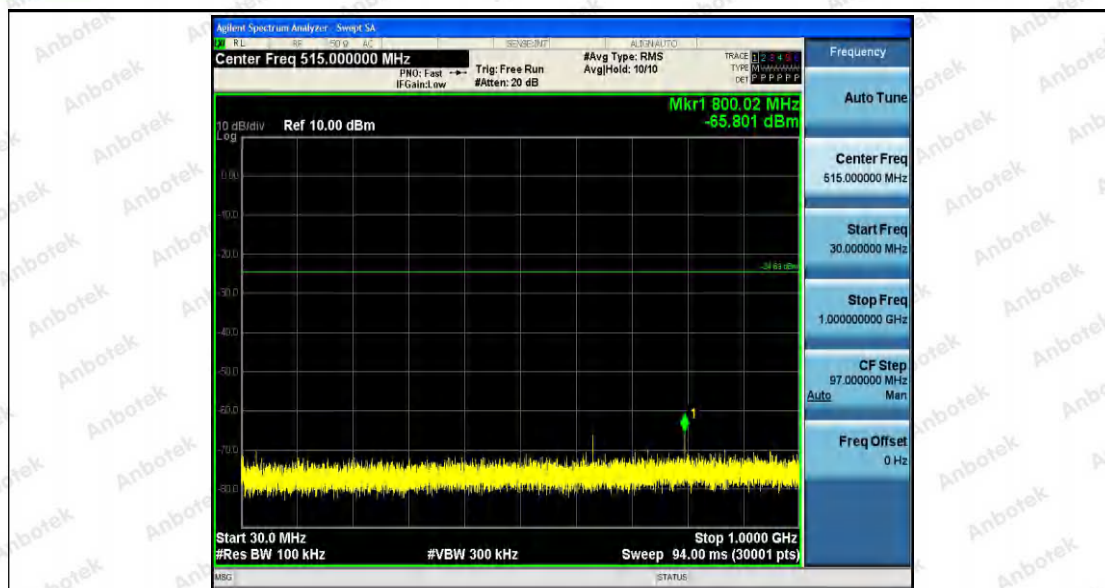
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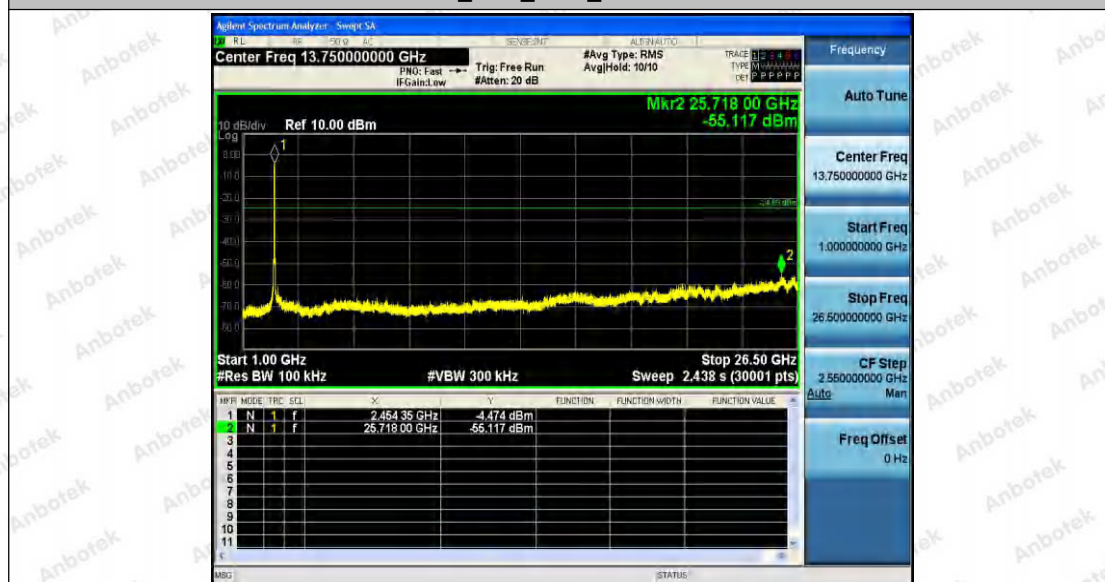
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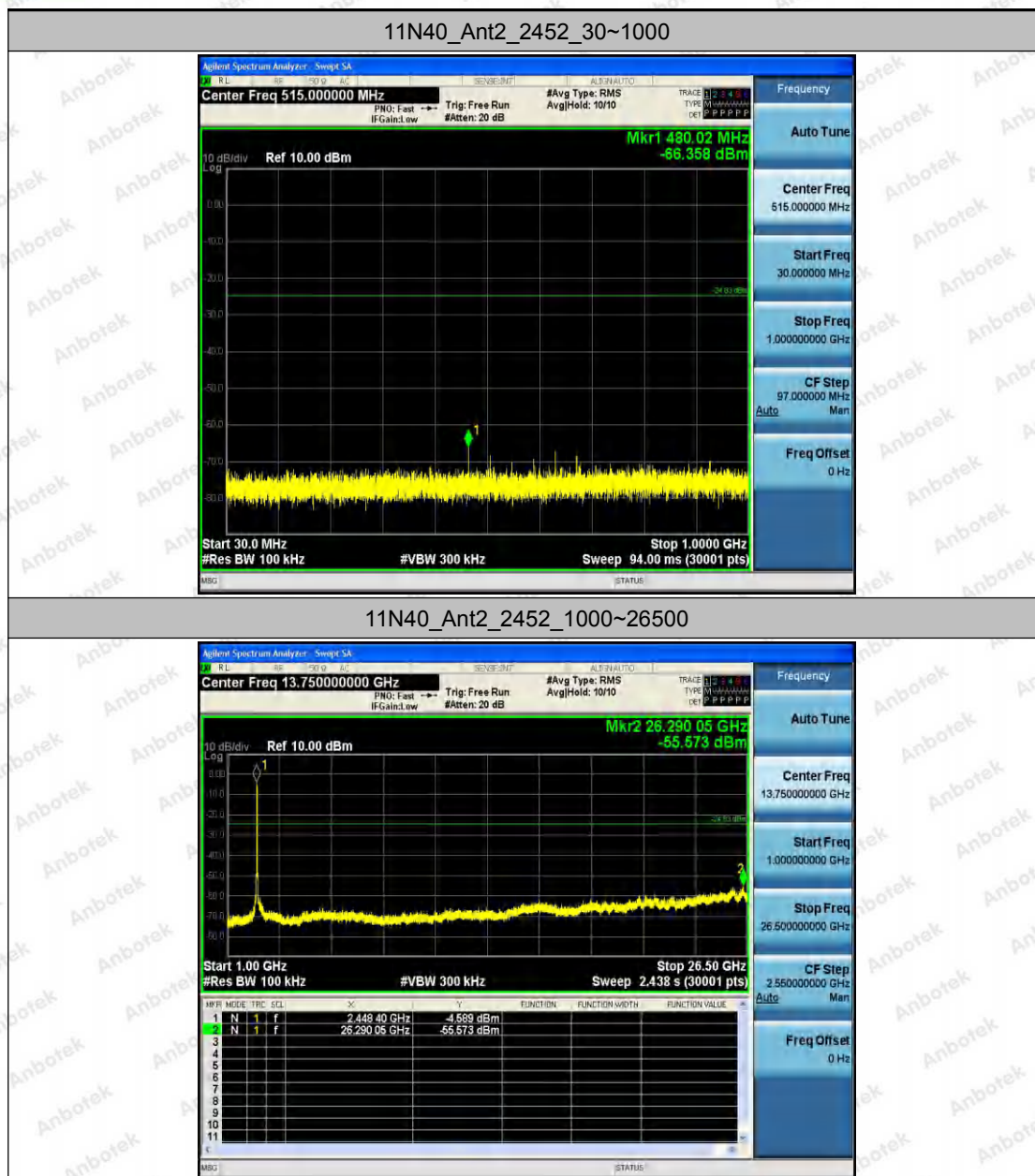


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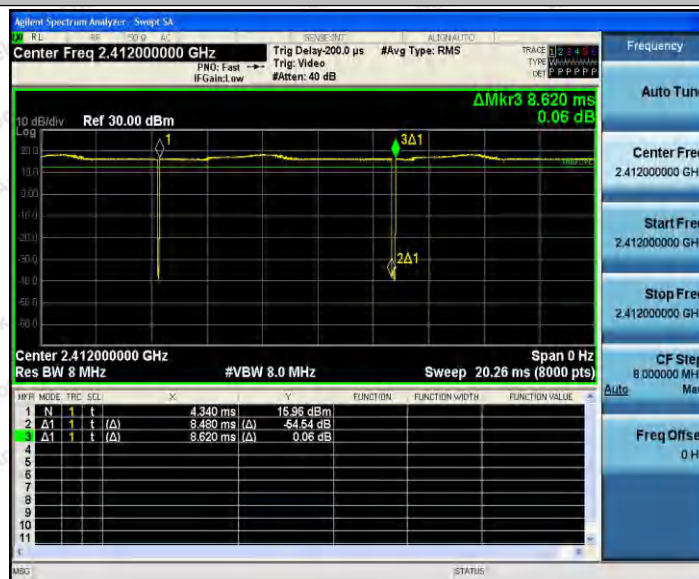
Appendix G: Duty Cycle

Test Result

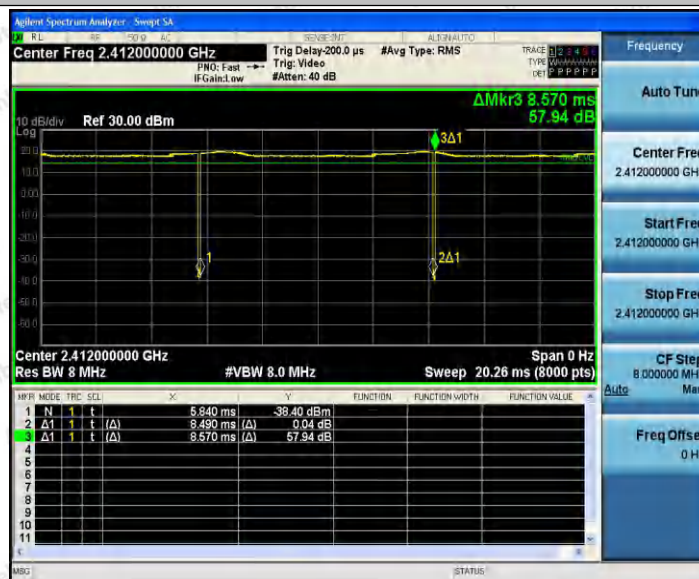
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.48	8.62	98.38	---	PASS
	Ant2	2412	8.49	8.57	99.07	---	PASS
	Ant1	2437	8.49	8.60	98.72	---	PASS
	Ant2	2437	8.48	8.55	99.18	---	PASS
	Ant1	2462	8.48	8.65	98.03	---	PASS
	Ant2	2462	8.49	9.23	91.98	---	PASS
11G	Ant1	2412	1.41	3.95	35.70	---	PASS
	Ant2	2412	1.41	3.71	38.01	---	PASS
	Ant1	2437	1.41	4.71	29.94	---	PASS
	Ant2	2437	1.40	4.16	33.65	---	PASS
	Ant1	2462	1.41	3.61	39.06	---	PASS
	Ant2	2462	1.41	2.47	57.09	---	PASS
11N20	Ant1	2412	1.32	4.10	32.20	---	PASS
	Ant2	2412	1.32	4.45	29.66	---	PASS
	Ant1	2437	1.32	4.32	30.56	---	PASS
	Ant2	2437	1.31	4.03	32.51	---	PASS
	Ant1	2462	1.32	4.23	31.21	---	PASS
	Ant2	2462	1.32	3.62	36.46	---	PASS
11N40	Ant1	2422	0.65	3.84	16.93	---	PASS
	Ant2	2422	0.65	3.47	18.73	---	PASS
	Ant1	2437	0.65	4.76	13.66	---	PASS
	Ant2	2437	0.65	4.96	13.10	---	PASS
	Ant1	2452	0.65	3.97	16.37	---	PASS
	Ant2	2452	0.65	3.48	18.68	---	PASS

Test Graphs

11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437

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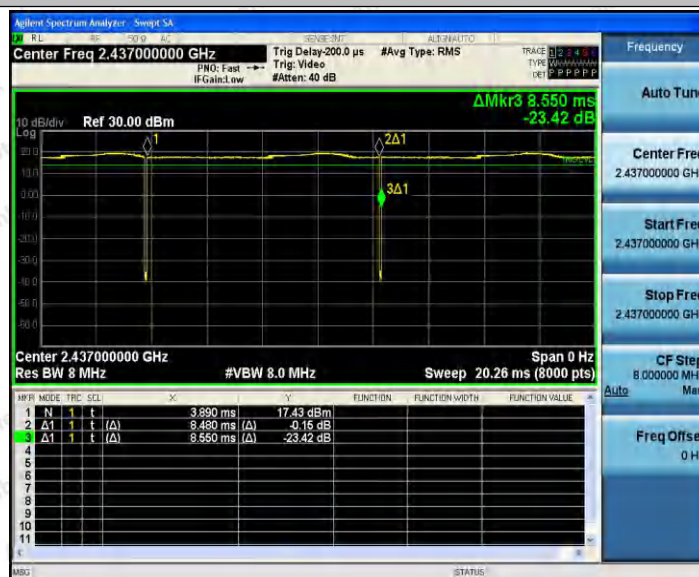
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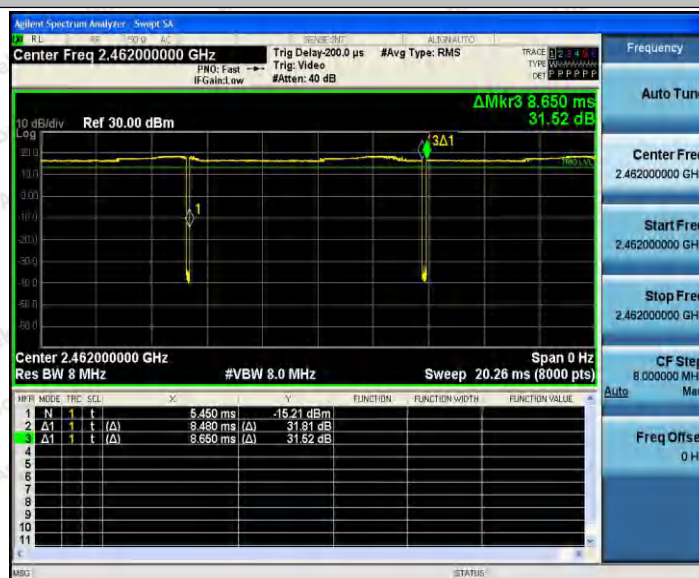
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11B_Ant2_2437



11B_Ant1_2462



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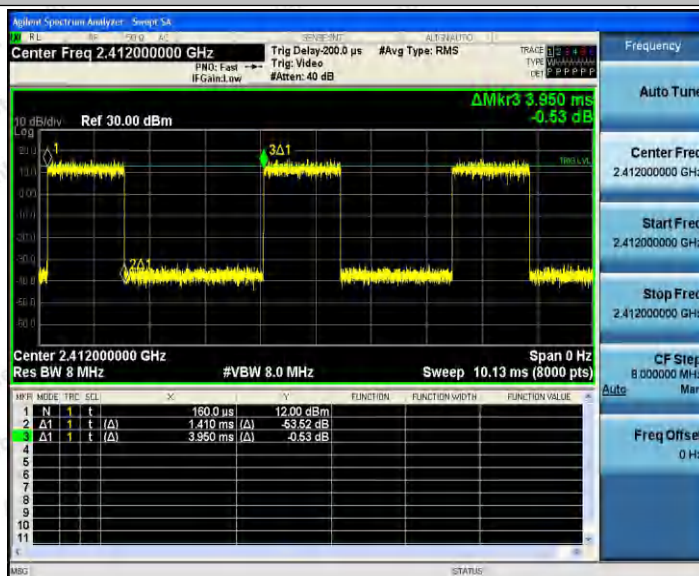
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11B_Ant2_2462



11G_Ant1_2412



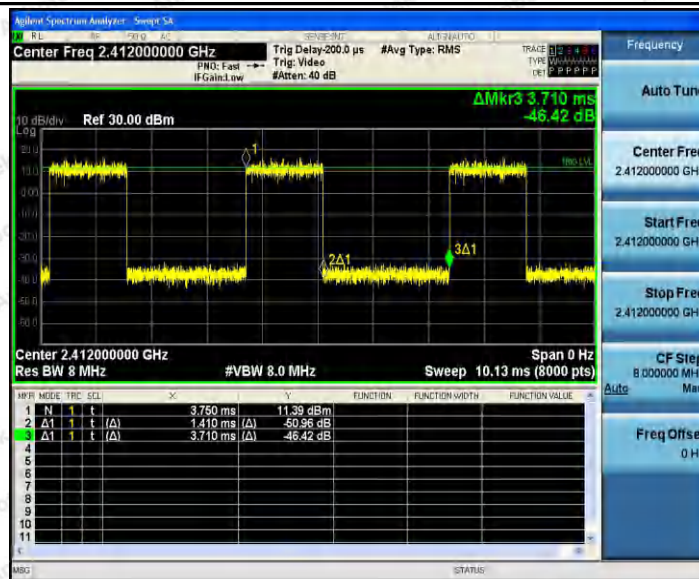
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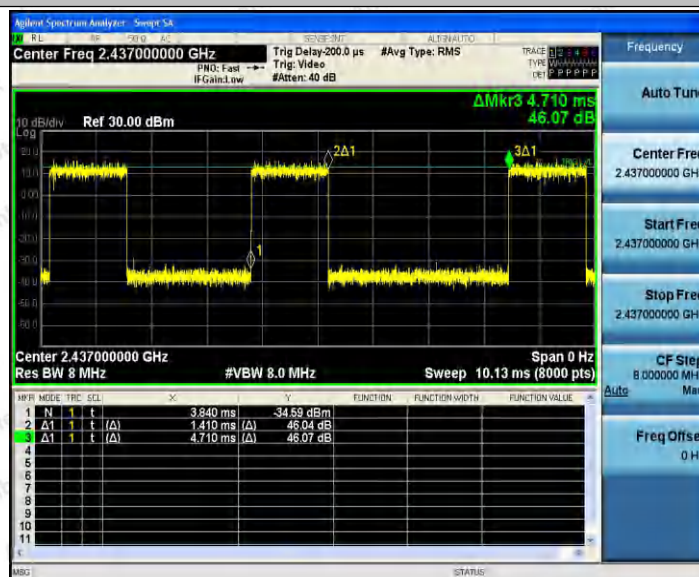
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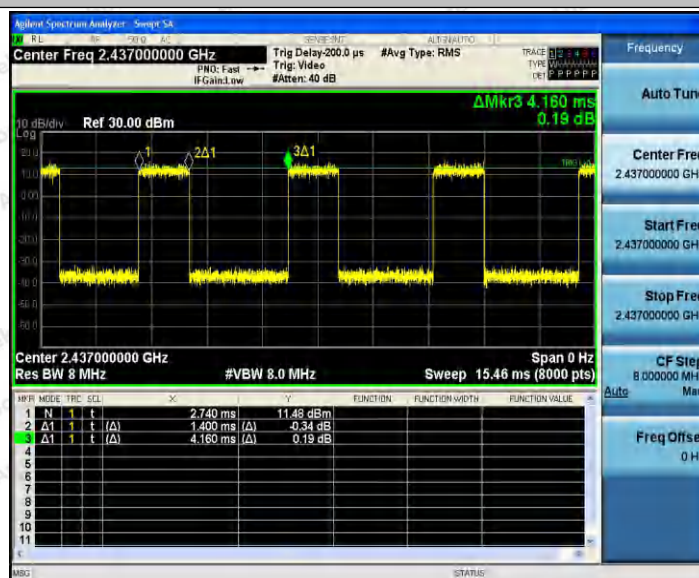
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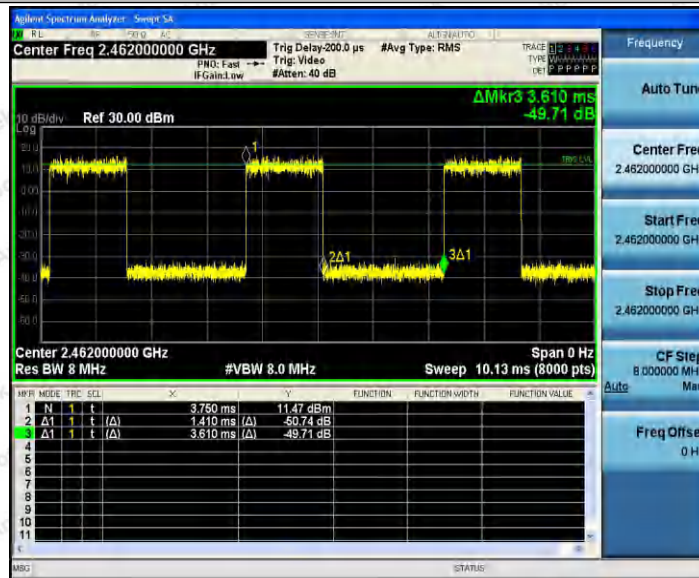
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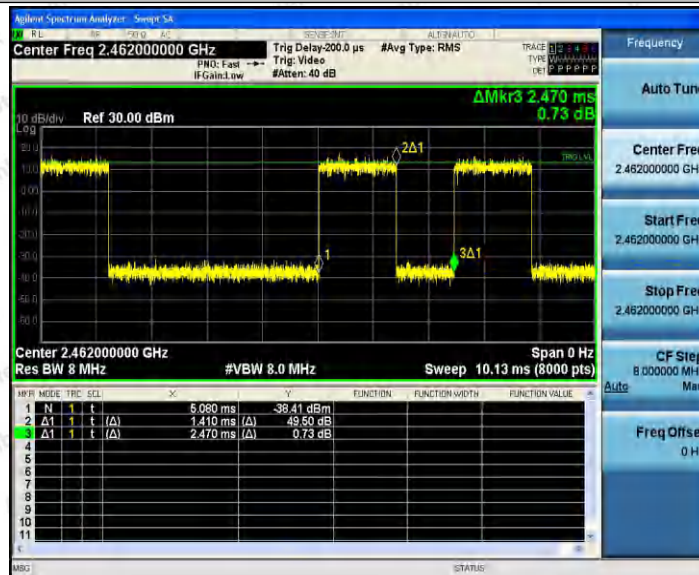
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11G_Ant1_2462



11G_Ant2_2462



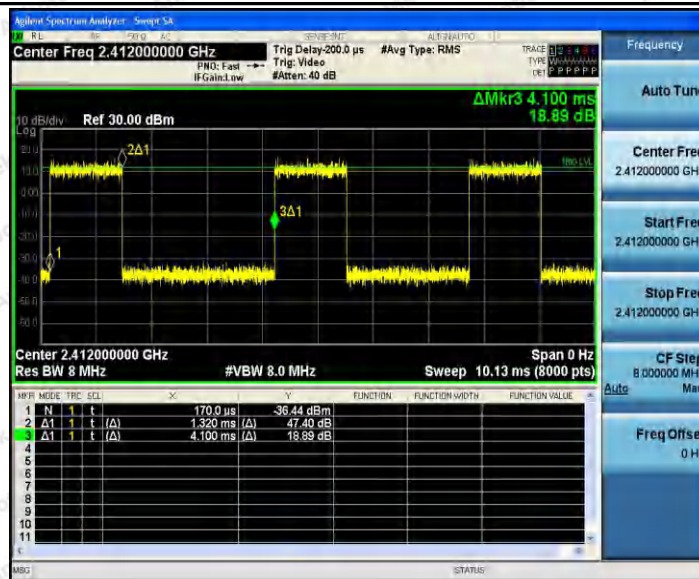
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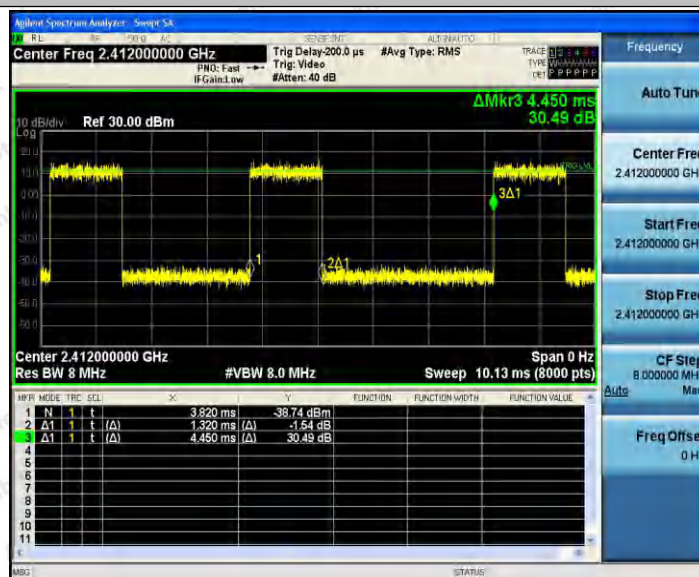
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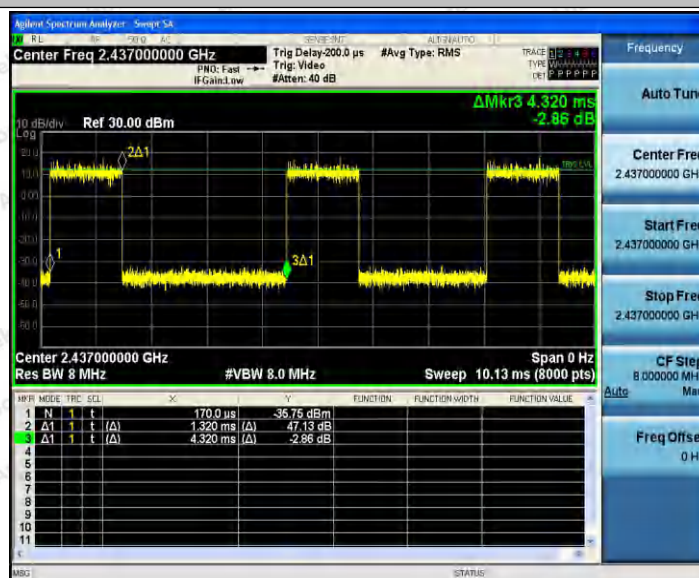
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11N20_Ant2_2412



11N20_Ant1_2437



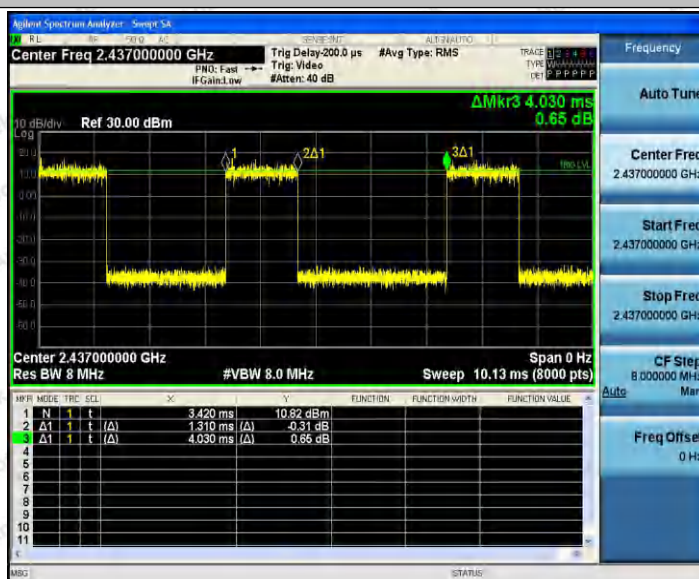
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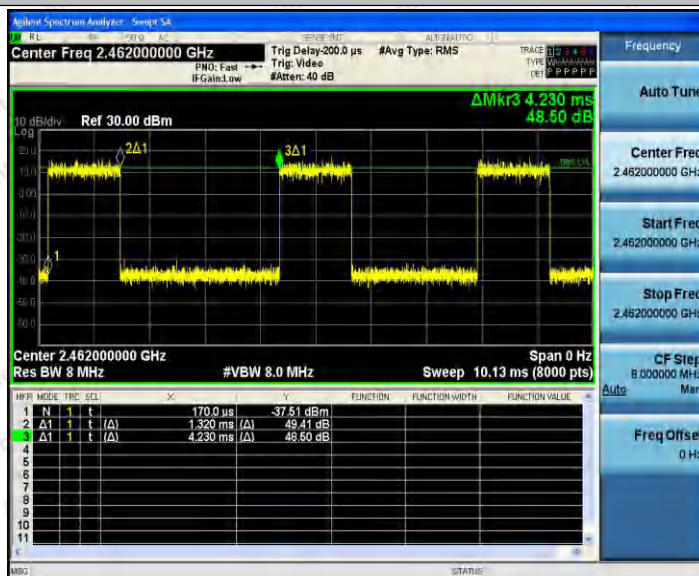
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11N20_Ant2_2437



11N20_Ant1_2462



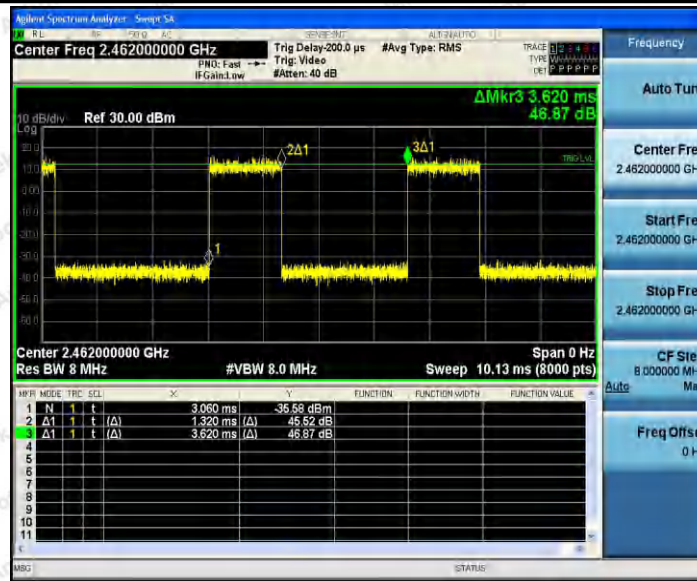
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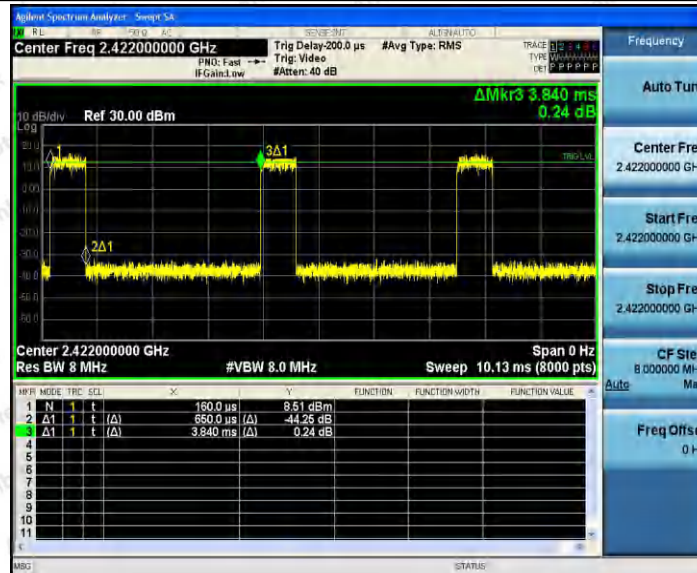
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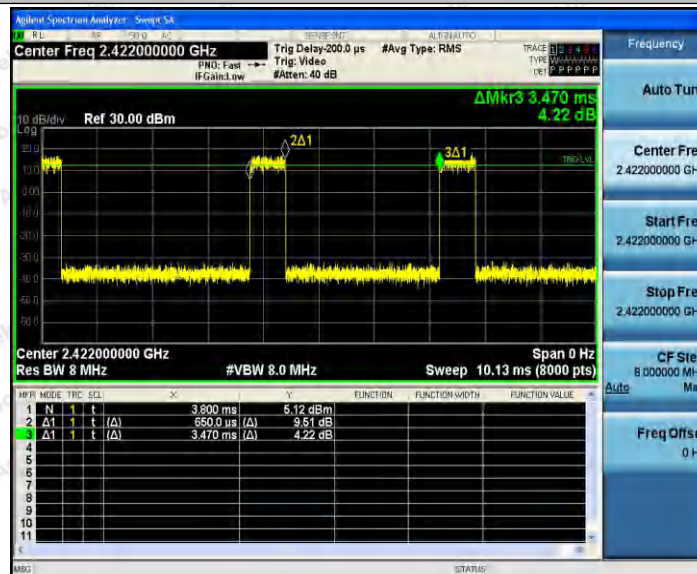
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11N40_Ant1_2422



11N40_Ant2_2422



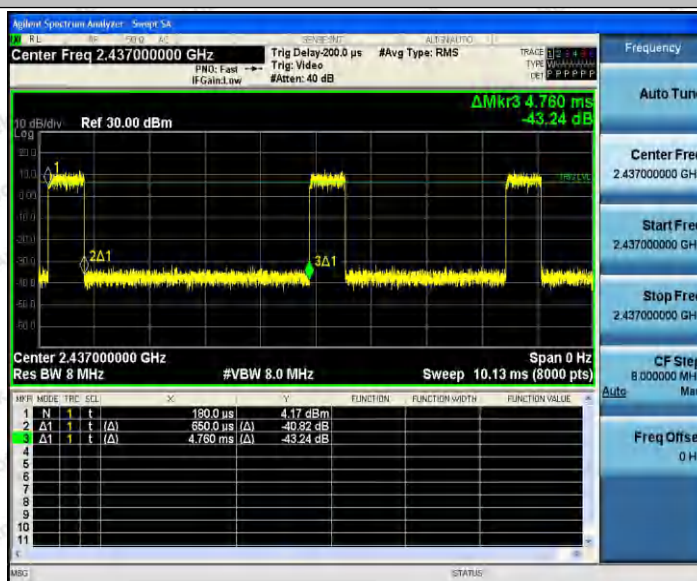
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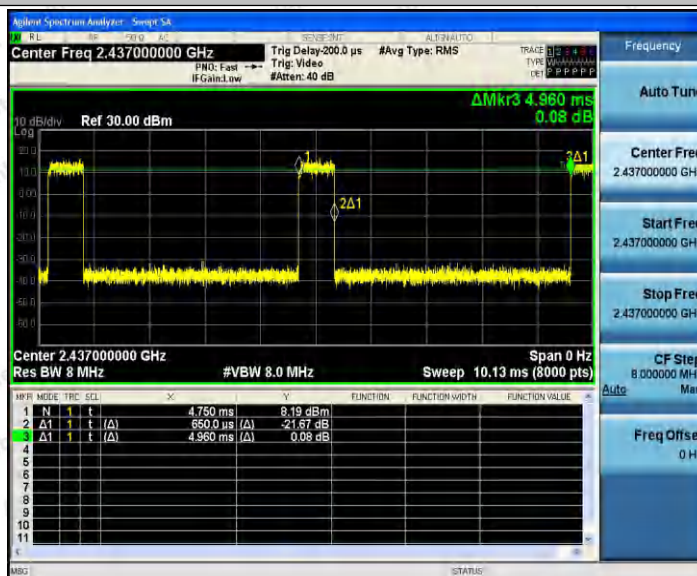
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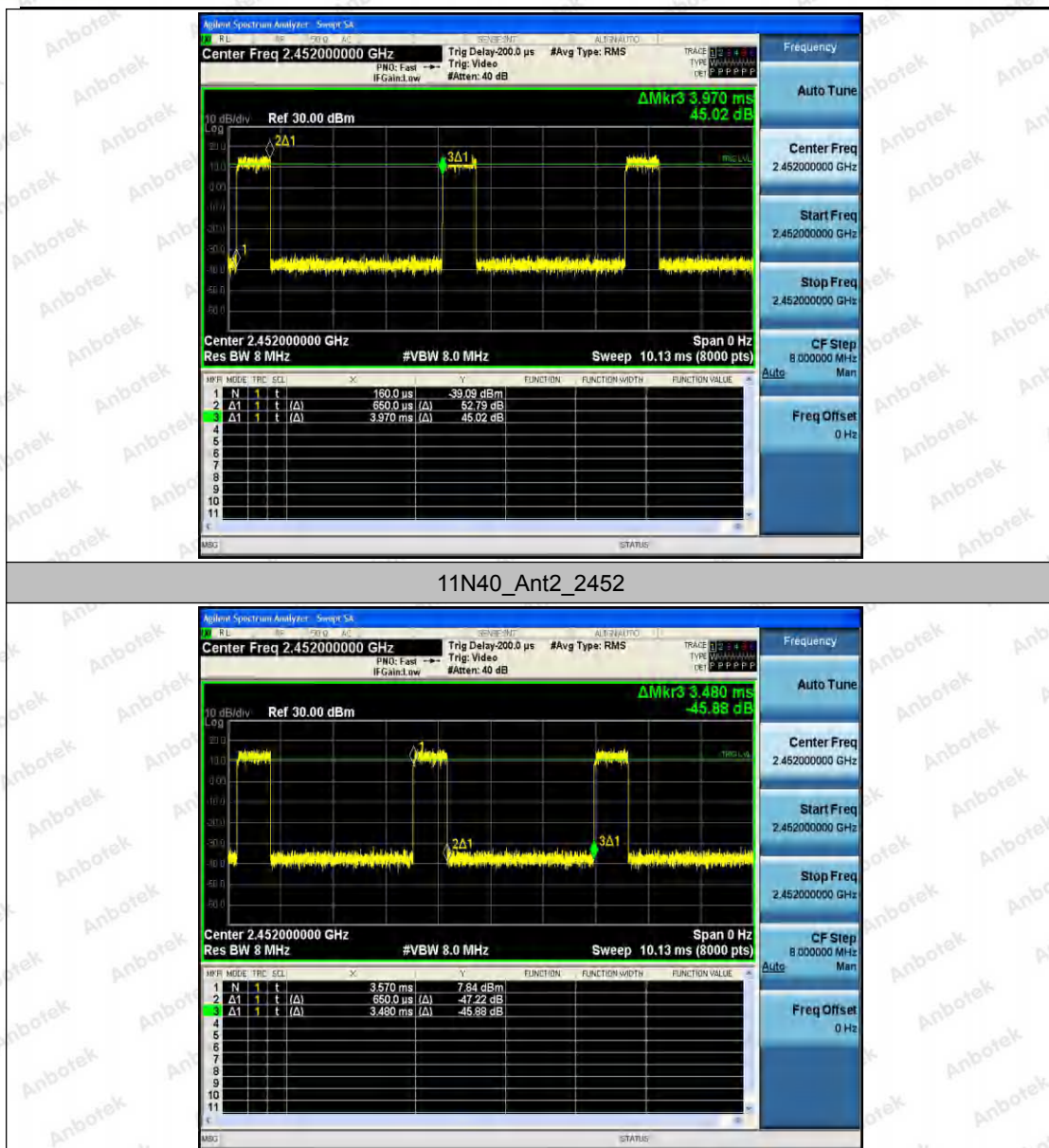
11N40_Ant1_2437



11N40_Ant2_2437



11N40_Ant1_2452



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