

Appendix Test Data

Report No.:	18220WC20090803	Test Sample No.:	1-2-2
Start Test Date:	2022.4.25	Finish Test Date:	2022.5.6
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3C°	Relative Humidity:	57.1 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.200	2407.360	2416.560	≥0.5	PASS
	Ant2	2412	9.920	2407.120	2417.040	≥0.5	PASS
	Ant1	2437	9.320	2432.360	2441.680	≥0.5	PASS
	Ant2	2437	9.640	2431.960	2441.600	≥0.5	PASS
	Ant1	2462	9.680	2456.920	2466.600	≥0.5	PASS
	Ant2	2462	9.160	2457.400	2466.560	≥0.5	PASS
11G	Ant1	2412	13.520	2404.160	2417.680	≥0.5	PASS
	Ant2	2412	12.760	2405.600	2418.360	≥0.5	PASS
	Ant1	2437	15.400	2429.400	2444.800	≥0.5	PASS
	Ant2	2437	12.920	2430.640	2443.560	≥0.5	PASS
	Ant1	2462	13.560	2455.960	2469.520	≥0.5	PASS
	Ant2	2462	14.120	2455.800	2469.920	≥0.5	PASS
11N20	Ant1	2412	15.440	2404.080	2419.520	≥0.5	PASS
	Ant2	2412	15.160	2404.400	2419.560	≥0.5	PASS
	Ant1	2437	17.360	2428.440	2445.800	≥0.5	PASS
	Ant2	2437	14.280	2429.080	2443.360	≥0.5	PASS
	Ant1	2462	15.120	2454.440	2469.560	≥0.5	PASS
	Ant2	2462	15.080	2454.400	2469.480	≥0.5	PASS
11N40	Ant1	2422	35.100	2404.480	2439.580	≥0.5	PASS
	Ant2	2422	35.220	2404.360	2439.580	≥0.5	PASS
	Ant1	2437	35.220	2419.420	2454.640	≥0.5	PASS
	Ant2	2437	35.160	2419.420	2454.580	≥0.5	PASS
	Ant1	2452	34.020	2434.360	2468.380	≥0.5	PASS
	Ant2	2452	33.840	2435.740	2469.580	≥0.5	PASS

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Test Graphs

11B_Ant1_2412



11B_Ant2_2412



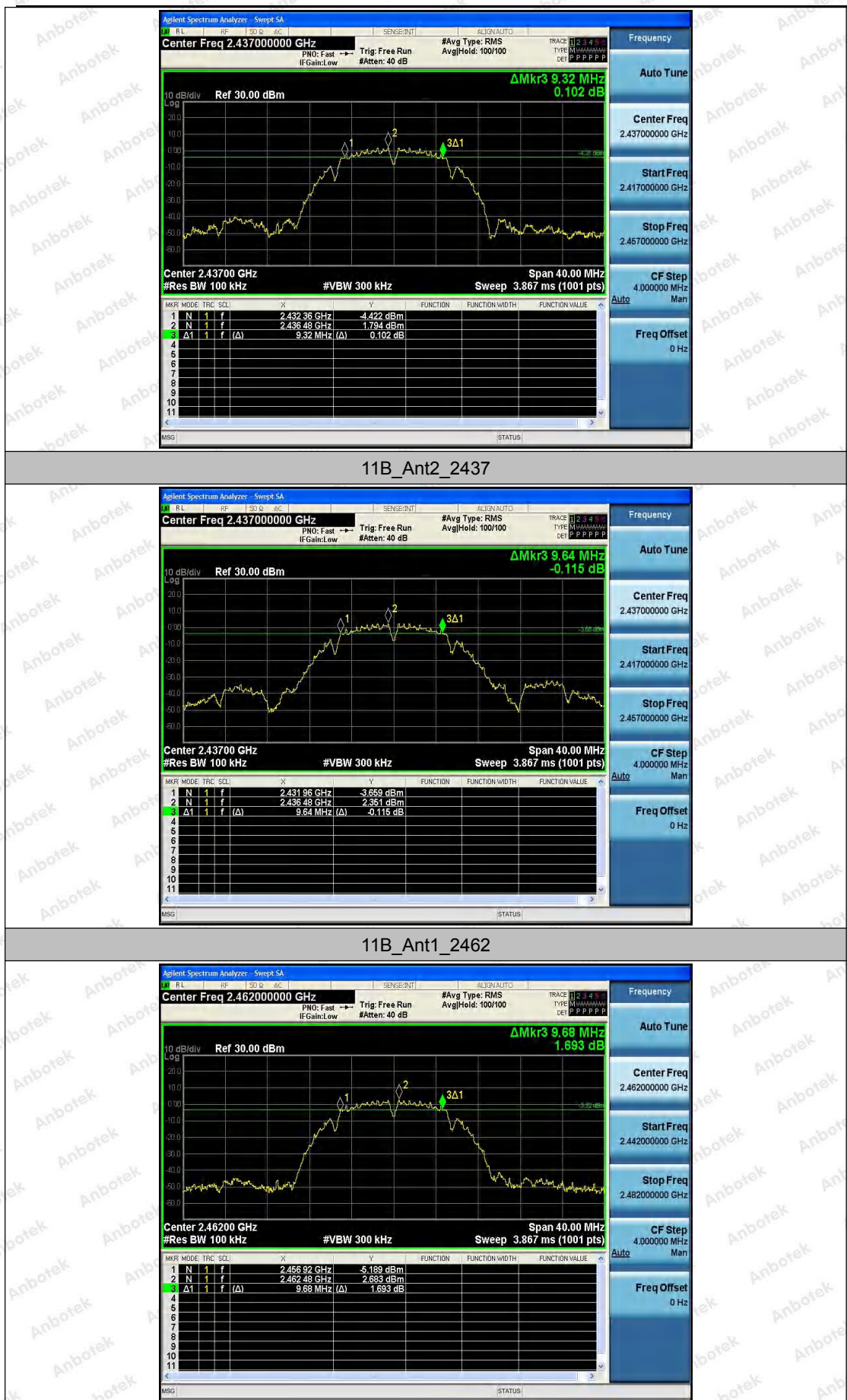
11B_Ant1_2437

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11B_Ant2_2462



11G_Ant1_2412



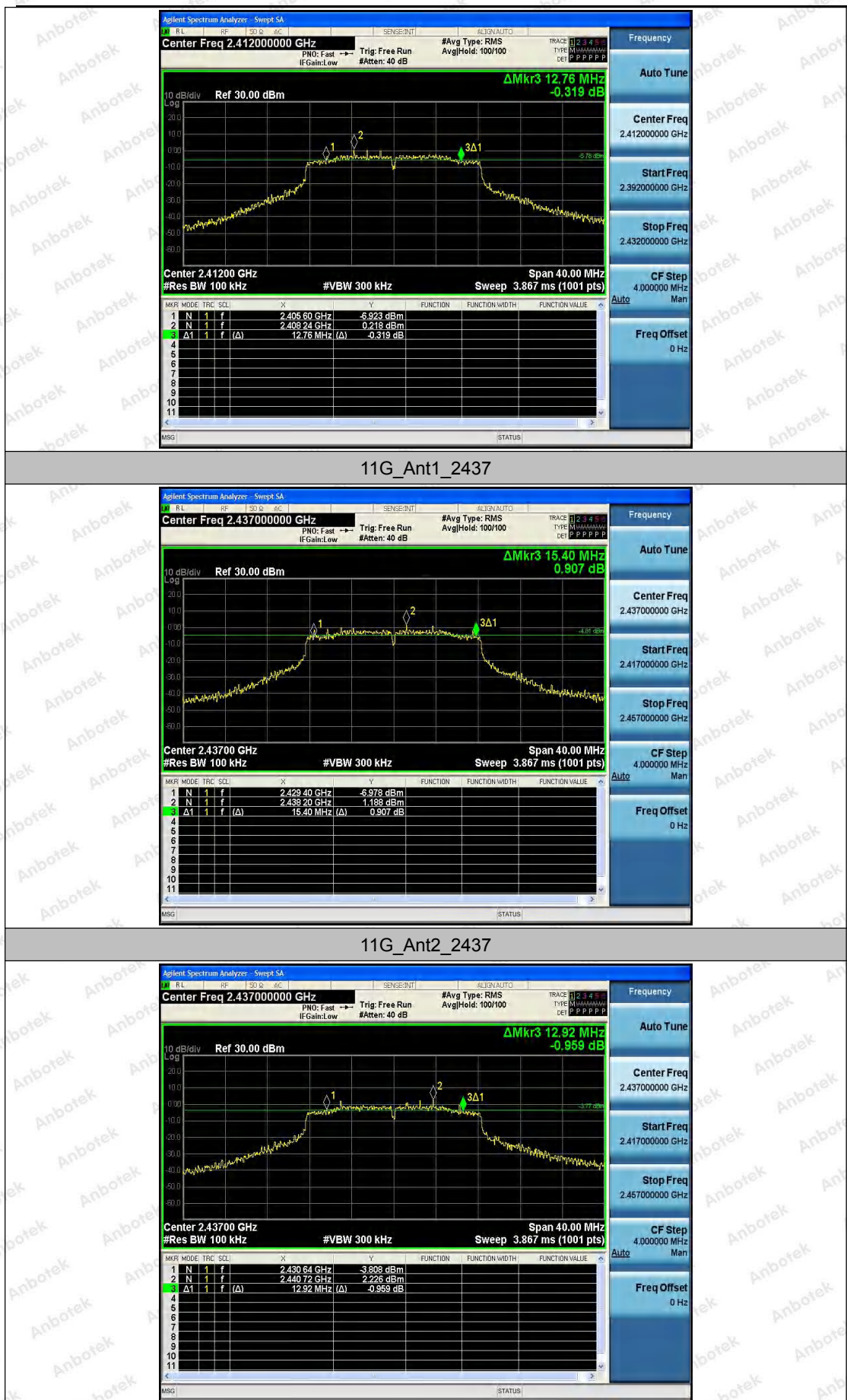
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11G_Ant1_2462



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



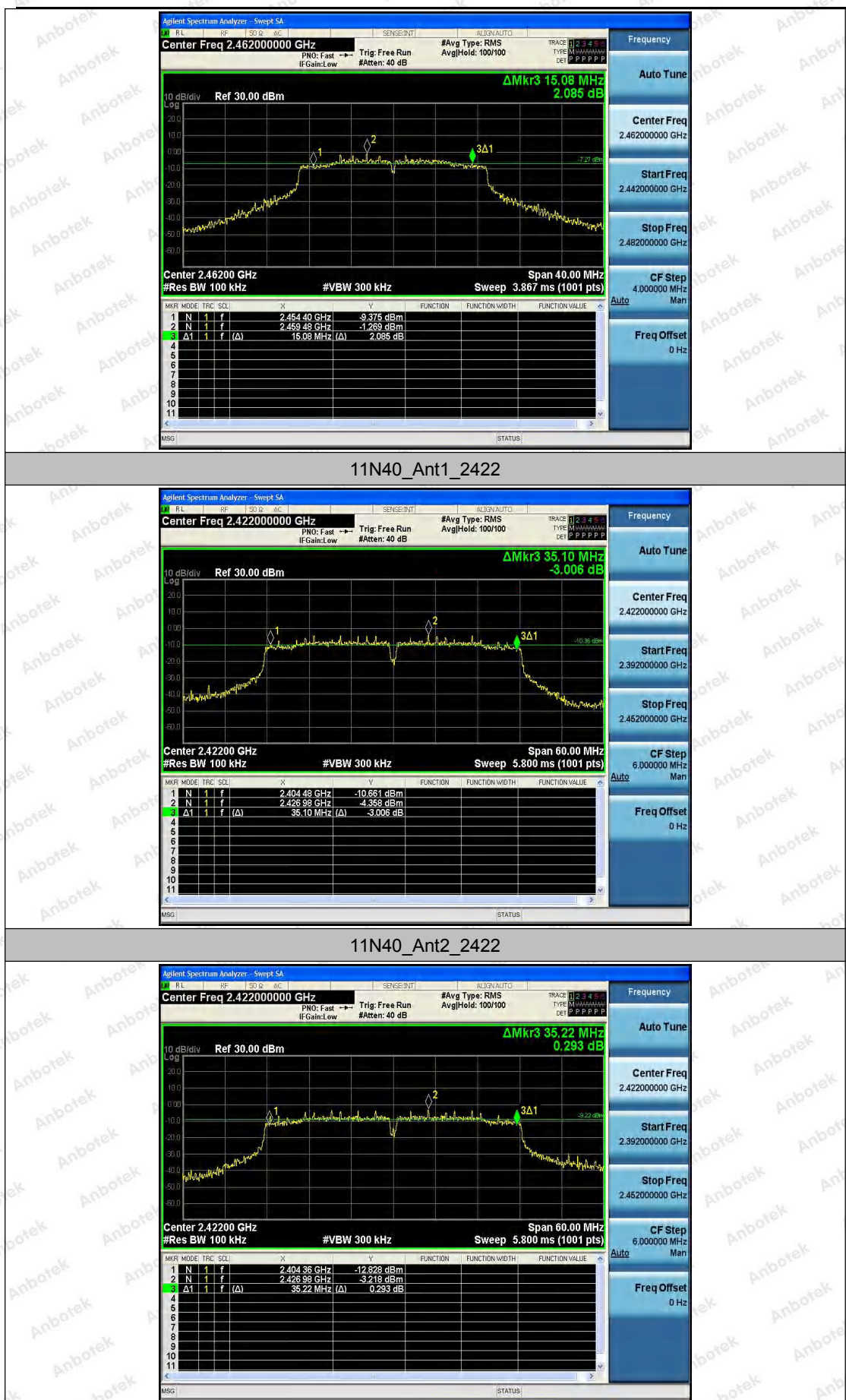
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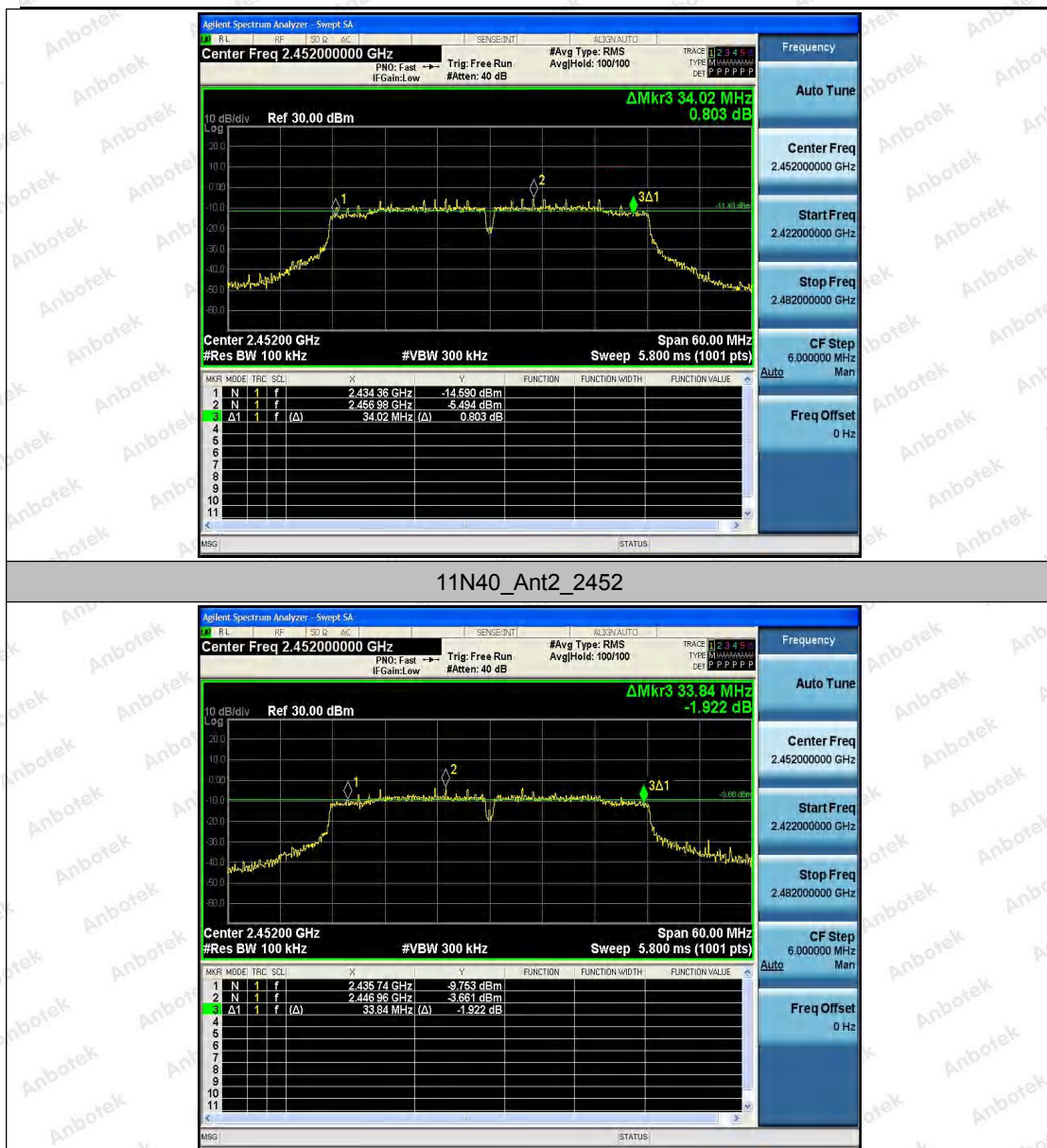
11N40_Ant1_2437



11N40_Ant2_2437



11N40_Ant1_2452



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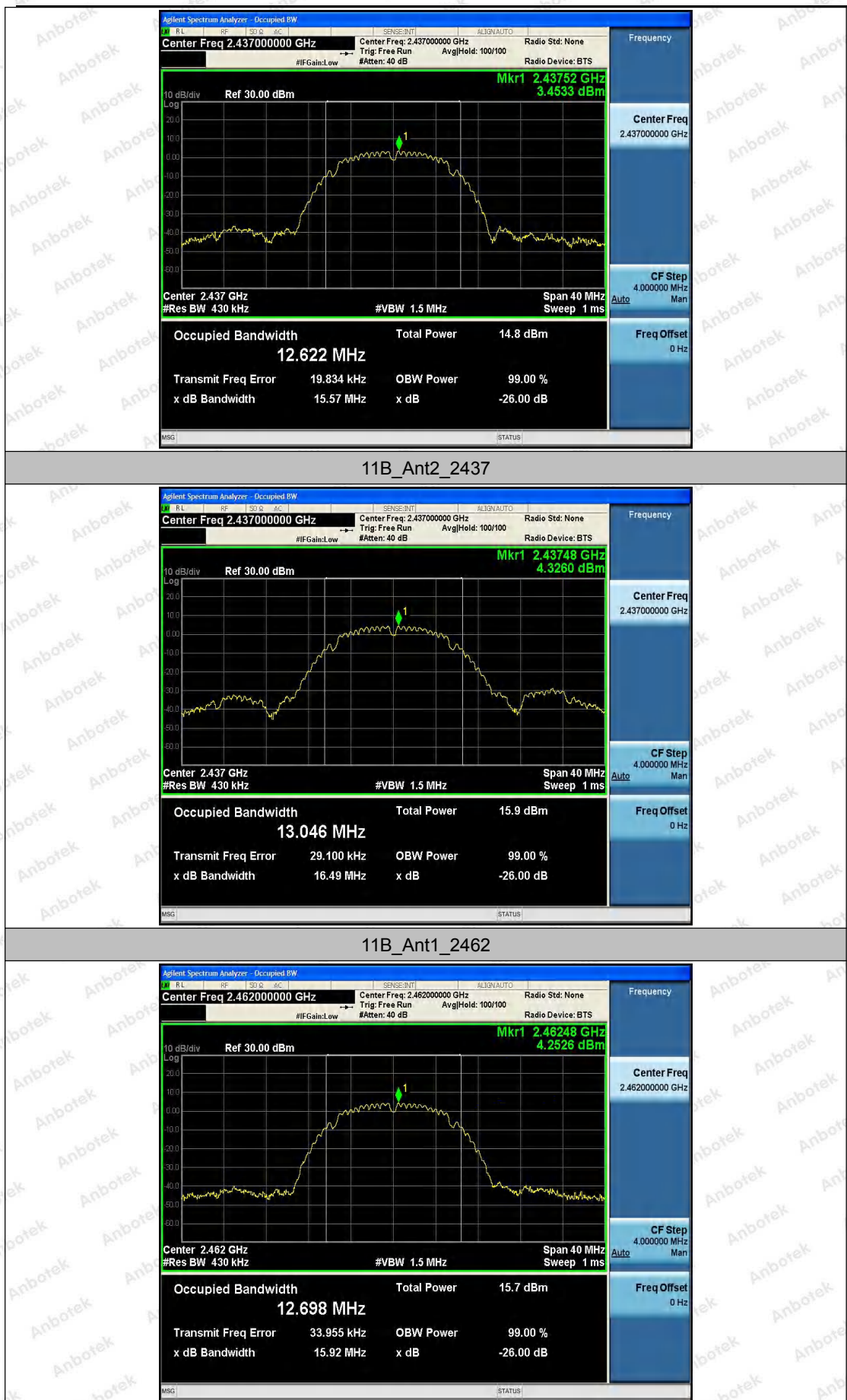
Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.663	2405.639	2418.302	---	PASS
	Ant2	2412	12.896	2405.540	2418.436	---	PASS
	Ant1	2437	12.622	2430.709	2443.331	---	PASS
	Ant2	2437	13.046	2430.506	2443.552	---	PASS
	Ant1	2462	12.698	2455.685	2468.383	---	PASS
	Ant2	2462	12.827	2455.612	2468.439	---	PASS
11G	Ant1	2412	16.760	2403.599	2420.359	---	PASS
	Ant2	2412	16.808	2403.610	2420.418	---	PASS
	Ant1	2437	16.781	2428.636	2445.417	---	PASS
	Ant2	2437	16.970	2428.532	2445.502	---	PASS
	Ant1	2462	16.808	2453.606	2470.414	---	PASS
	Ant2	2462	16.853	2453.580	2470.433	---	PASS
11N20	Ant1	2412	17.948	2403.009	2420.957	---	PASS
	Ant2	2412	18.001	2402.999	2421.000	---	PASS
	Ant1	2437	17.949	2428.028	2445.977	---	PASS
	Ant2	2437	18.143	2427.909	2446.052	---	PASS
	Ant1	2462	17.912	2453.061	2470.973	---	PASS
	Ant2	2462	17.980	2453.040	2471.020	---	PASS
11N40	Ant1	2422	36.109	2403.937	2440.046	---	PASS
	Ant2	2422	36.113	2403.976	2440.089	---	PASS
	Ant1	2437	36.082	2418.993	2455.075	---	PASS
	Ant2	2437	36.201	2418.926	2455.127	---	PASS
	Ant1	2452	36.150	2433.949	2470.099	---	PASS
	Ant2	2452	36.163	2433.932	2470.095	---	PASS

Test Graphs





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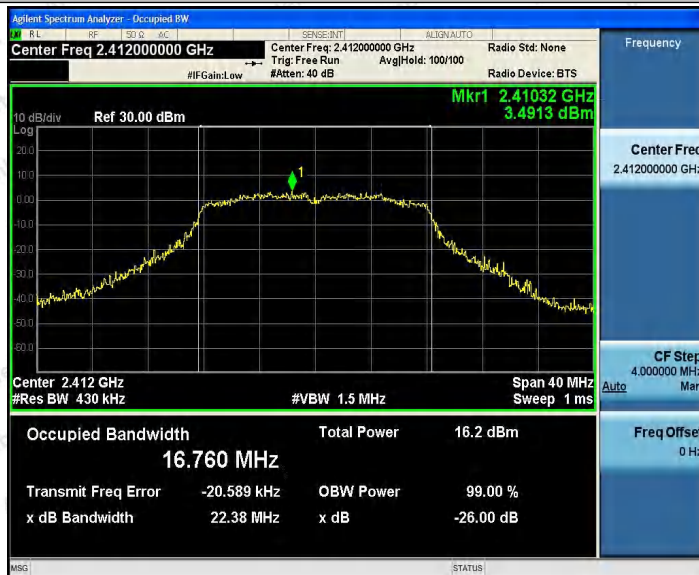
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11B_Ant2_2462



11G_Ant1_2412



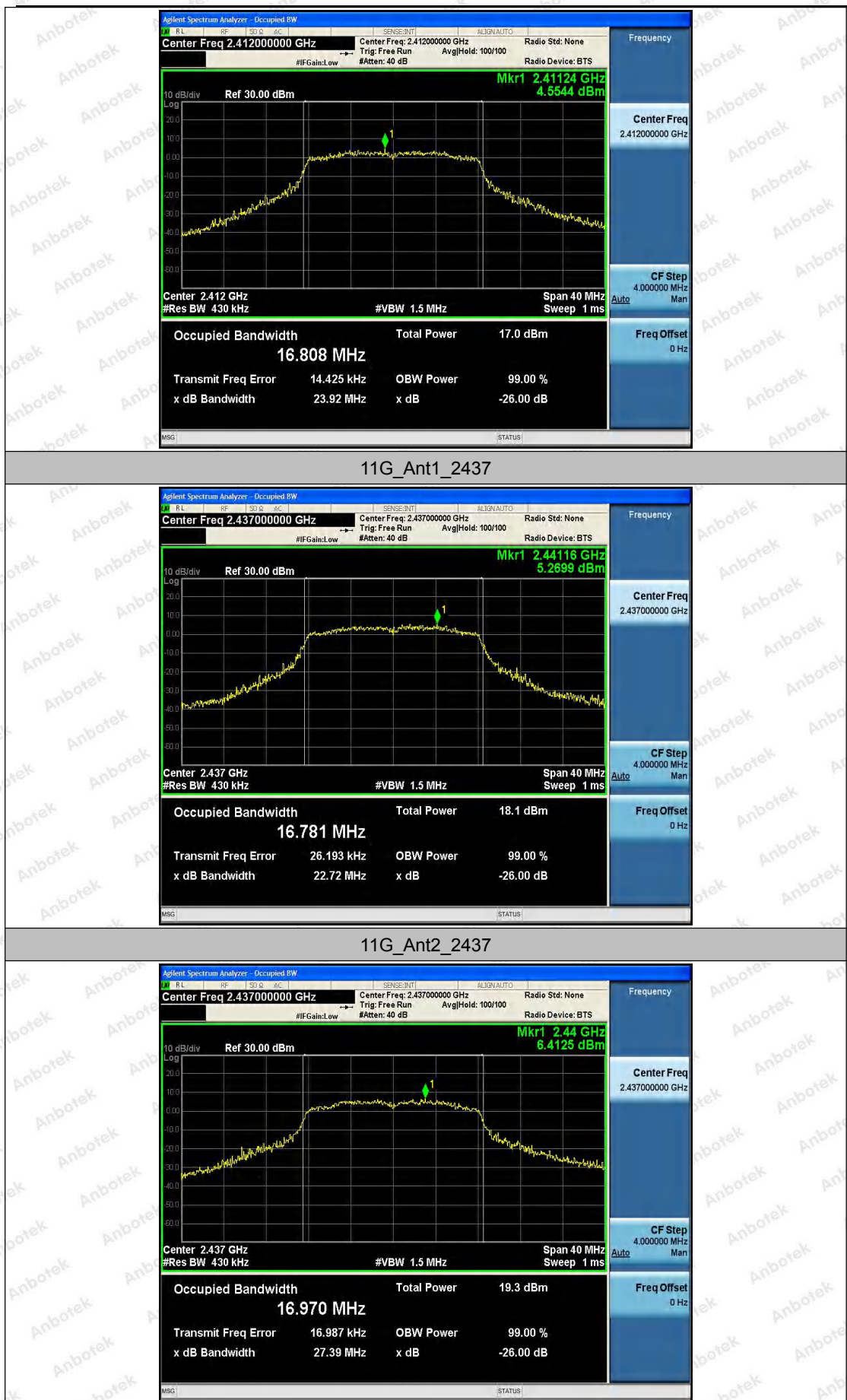
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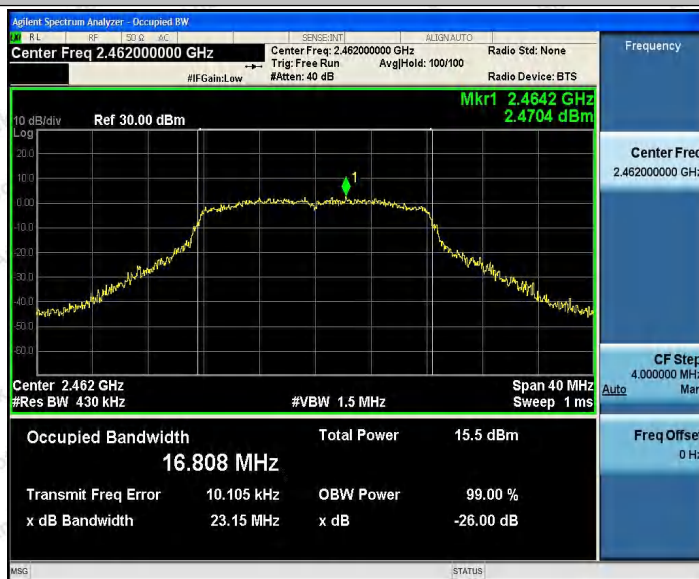


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11G_Ant1_2462



11G_Ant2_2462



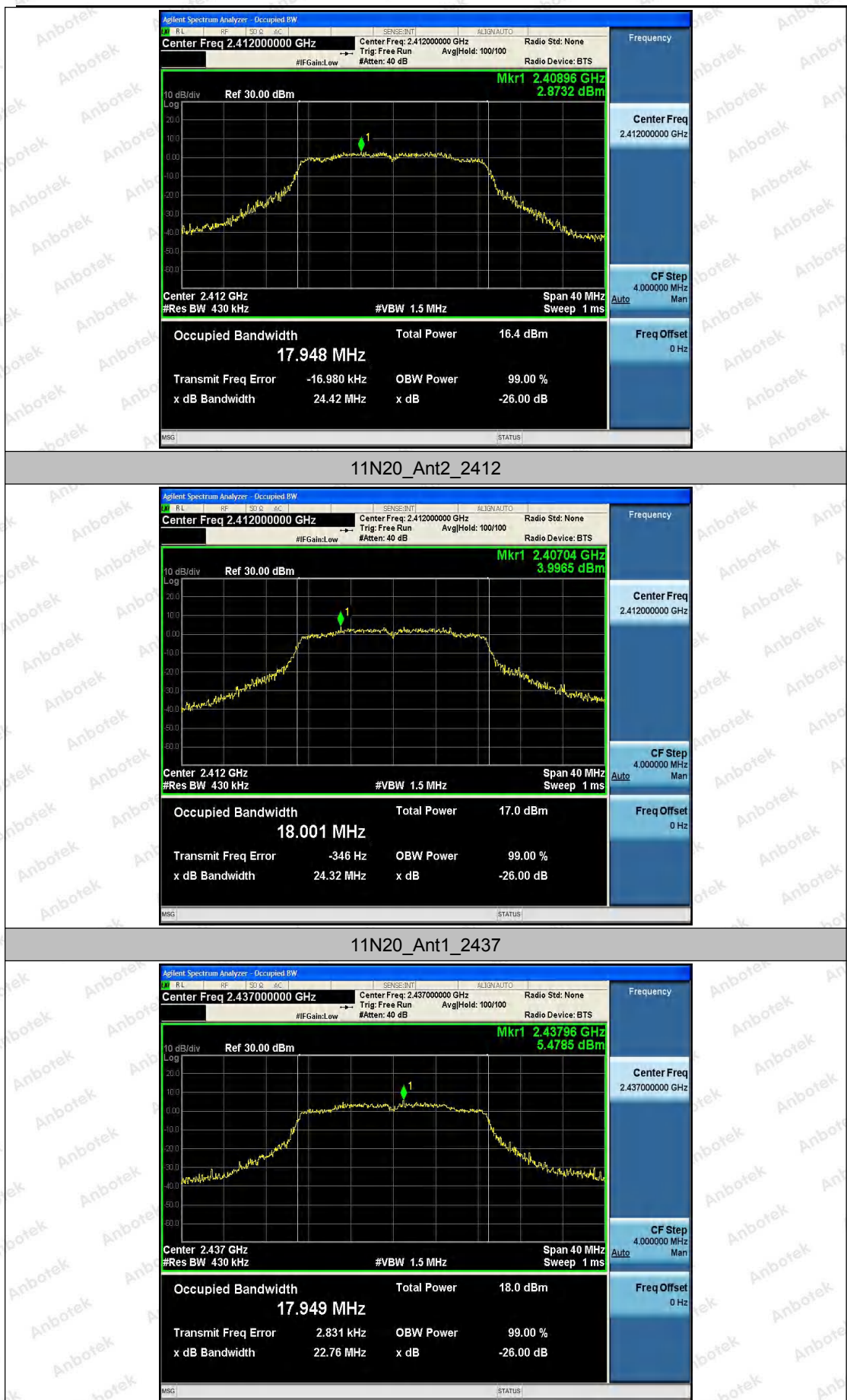
11N20_Ant1_2412

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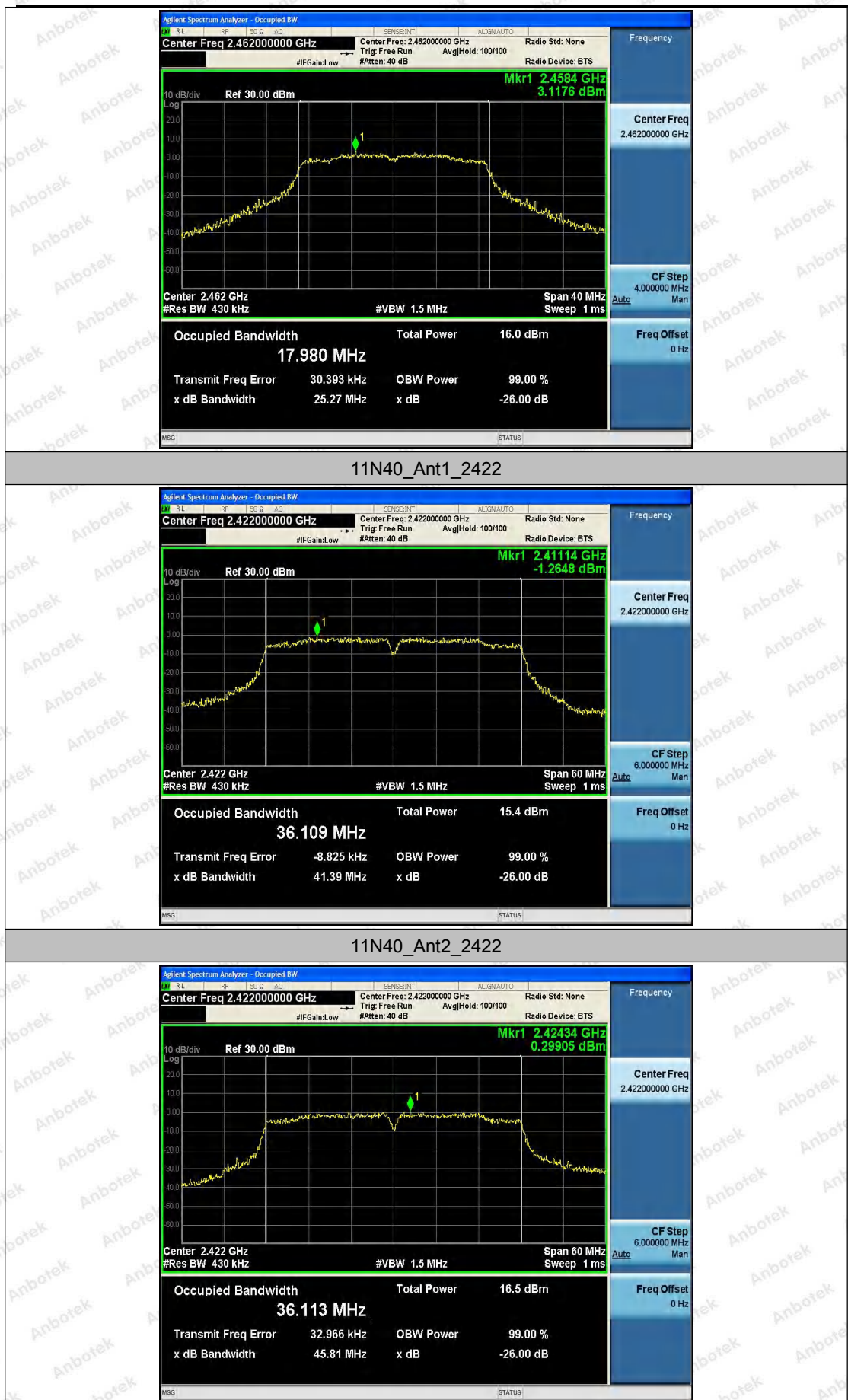
11N20_Ant2_2437



11N20_Ant1_2462



11N20_Ant2_2462



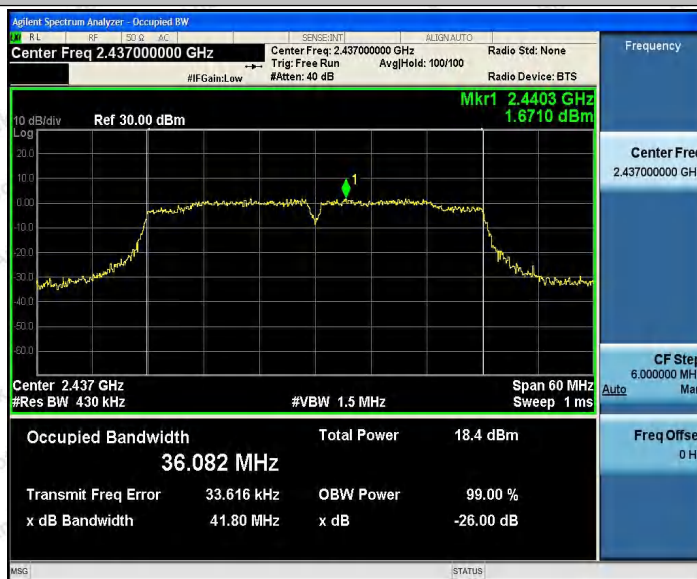
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11N40_Ant1_2437



11N40_Ant2_2437



11N40_Ant1_2452



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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	15.58	≤30	PASS
	Ant2	2412	16.43	≤30	PASS
	Ant1	2437	14.79	≤30	PASS
	Ant2	2437	15.88	≤30	PASS
	Ant1	2462	15.62	≤30	PASS
	Ant2	2462	16.09	≤30	PASS
11G	Ant1	2412	17.37	≤30	PASS
	Ant2	2412	18.09	≤30	PASS
	Ant1	2437	19.23	≤30	PASS
	Ant2	2437	20.30	≤30	PASS
	Ant1	2462	16.66	≤30	PASS
	Ant2	2462	17.11	≤30	PASS
11N20	Ant1	2412	17.57	≤30	PASS
	Ant2	2412	17.98	≤30	PASS
	Ant1	2437	19.16	≤30	PASS
	Ant2	2437	20.21	≤30	PASS
	Ant1	2462	16.53	≤30	PASS
	Ant2	2462	17.03	≤30	PASS
11N40	Ant1	2422	14.45	≤30	PASS
	Ant2	2422	15.70	≤30	PASS
	Ant1	2437	17.53	≤30	PASS
	Ant2	2437	18.30	≤30	PASS
	Ant1	2452	13.24	≤30	PASS
	Ant2	2452	14.92	≤30	PASS

MIMO:

Test Mode	Channel	Result[dBm]	Limit[dBm]	Verdict
11N20	2412	20.79	≤30	PASS
	2437	22.73	≤30	PASS
	2462	19.80	≤30	PASS
11N40	2422	18.13	≤30	PASS
	2437	20.94	≤30	PASS
	2452	17.17	≤30	PASS

Appendix D: Maximum power spectral density

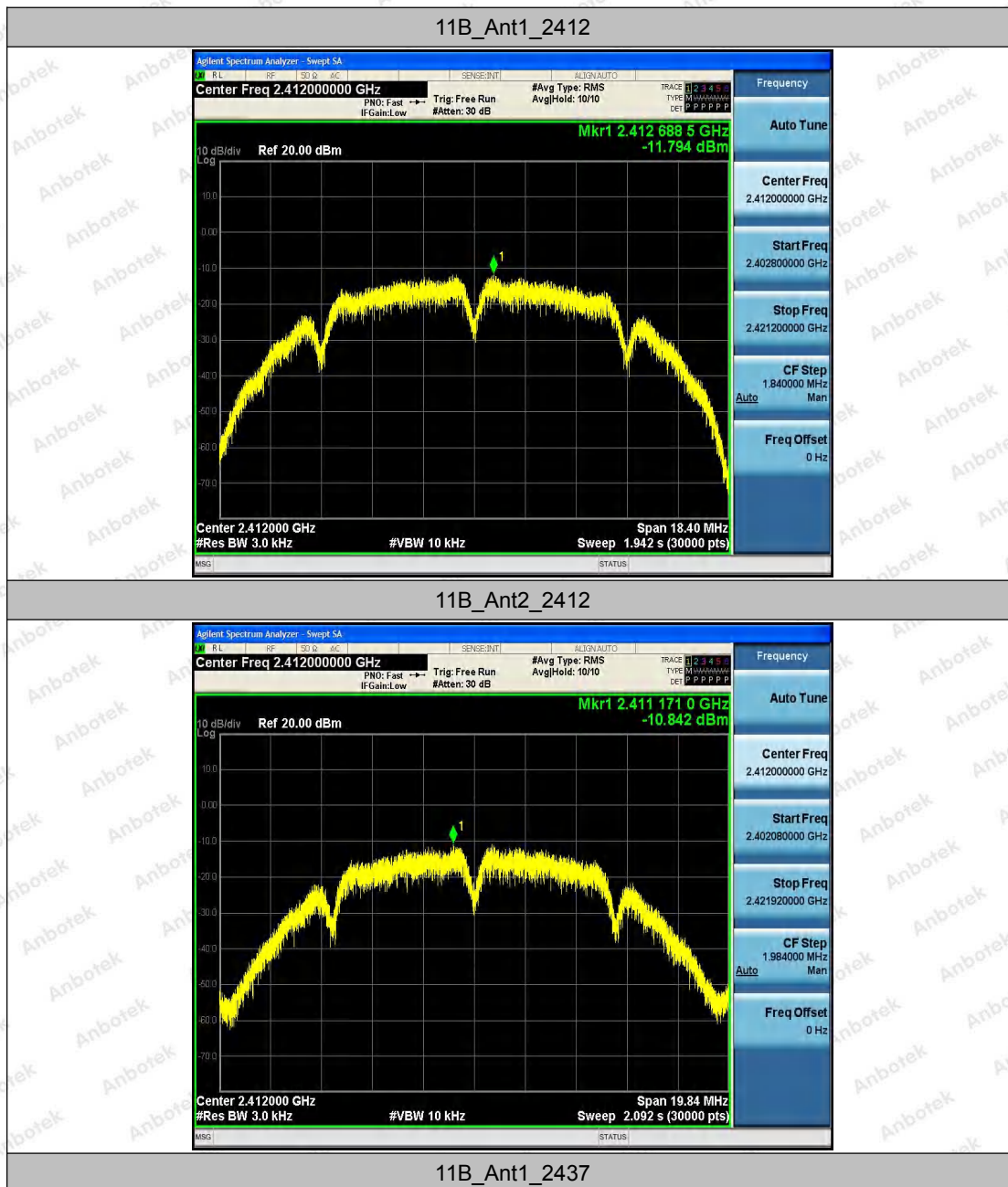
Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.79	≤8	PASS
	Ant2	2412	-10.84	≤8	PASS
	Ant1	2437	-11.82	≤8	PASS
	Ant2	2437	-11.48	≤8	PASS
	Ant1	2462	-11.11	≤8	PASS
	Ant2	2462	-11.34	≤8	PASS
11G	Ant1	2412	-13.56	≤8	PASS
	Ant2	2412	-13.85	≤8	PASS
	Ant1	2437	-11.6	≤8	PASS
	Ant2	2437	-11.58	≤8	PASS
	Ant1	2462	-15.06	≤8	PASS
	Ant2	2462	-14.78	≤8	PASS
11N20	Ant1	2412	-13.55	≤8	PASS
	Ant2	2412	-13.34	≤8	PASS
	Ant1	2437	-11.54	≤8	PASS
	Ant2	2437	-11.73	≤8	PASS
	Ant1	2462	-14.88	≤8	PASS
	Ant2	2462	-14.03	≤8	PASS
11N40	Ant1	2422	-17.17	≤8	PASS
	Ant2	2422	-16.77	≤8	PASS
	Ant1	2437	-14.39	≤8	PASS
	Ant2	2437	-13.76	≤8	PASS
	Ant1	2452	-20	≤8	PASS
	Ant2	2452	-17.35	≤8	PASS

MIMO:

Test Mode	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11N20	2412	-10.43	≤8	PASS
	2437	-8.62	≤8	PASS
	2462	-11.42	≤8	PASS
11N40	2422	-13.96	≤8	PASS
	2437	-11.05	≤8	PASS
	2452	-15.47	≤8	PASS

Test Graphs



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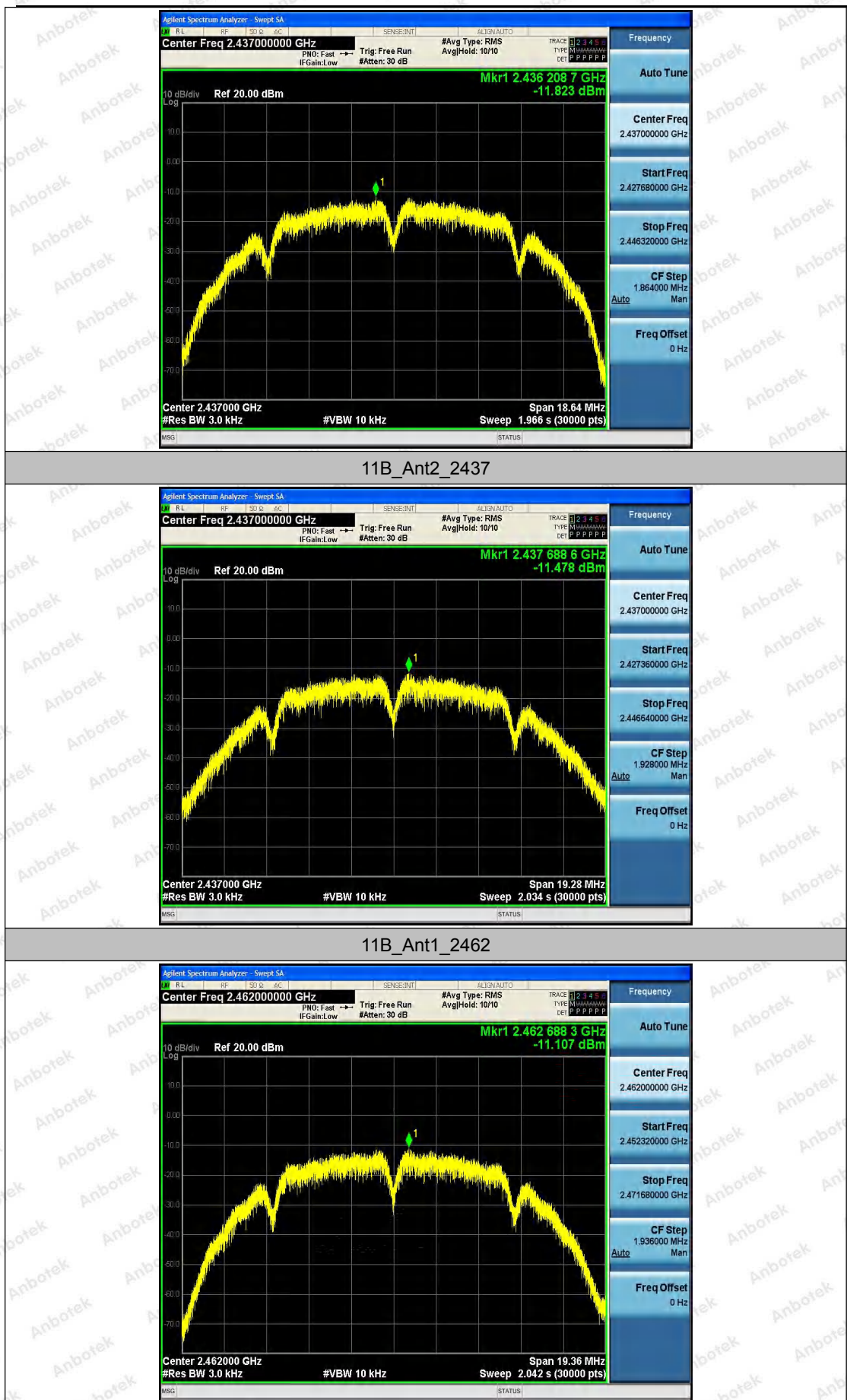
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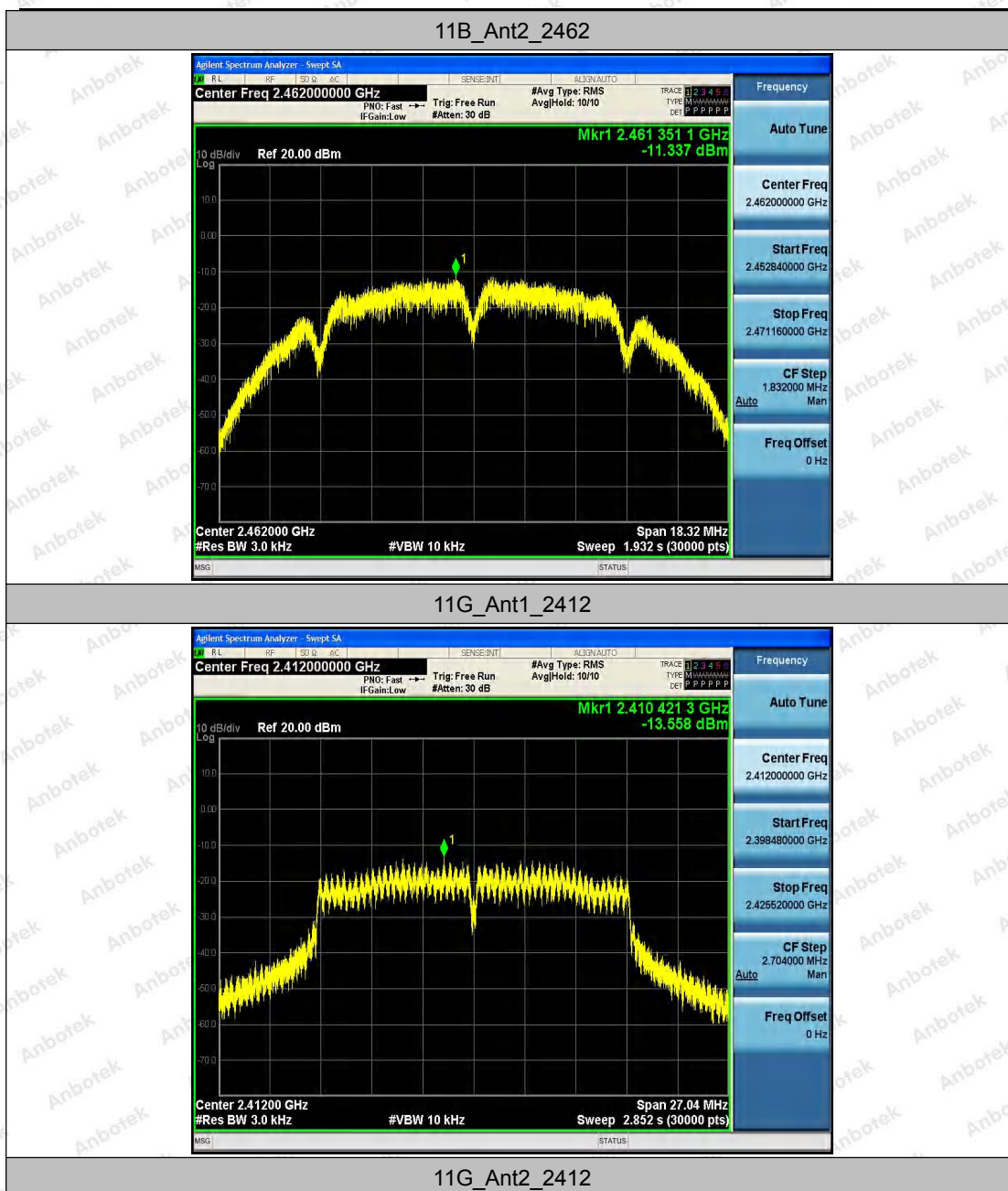


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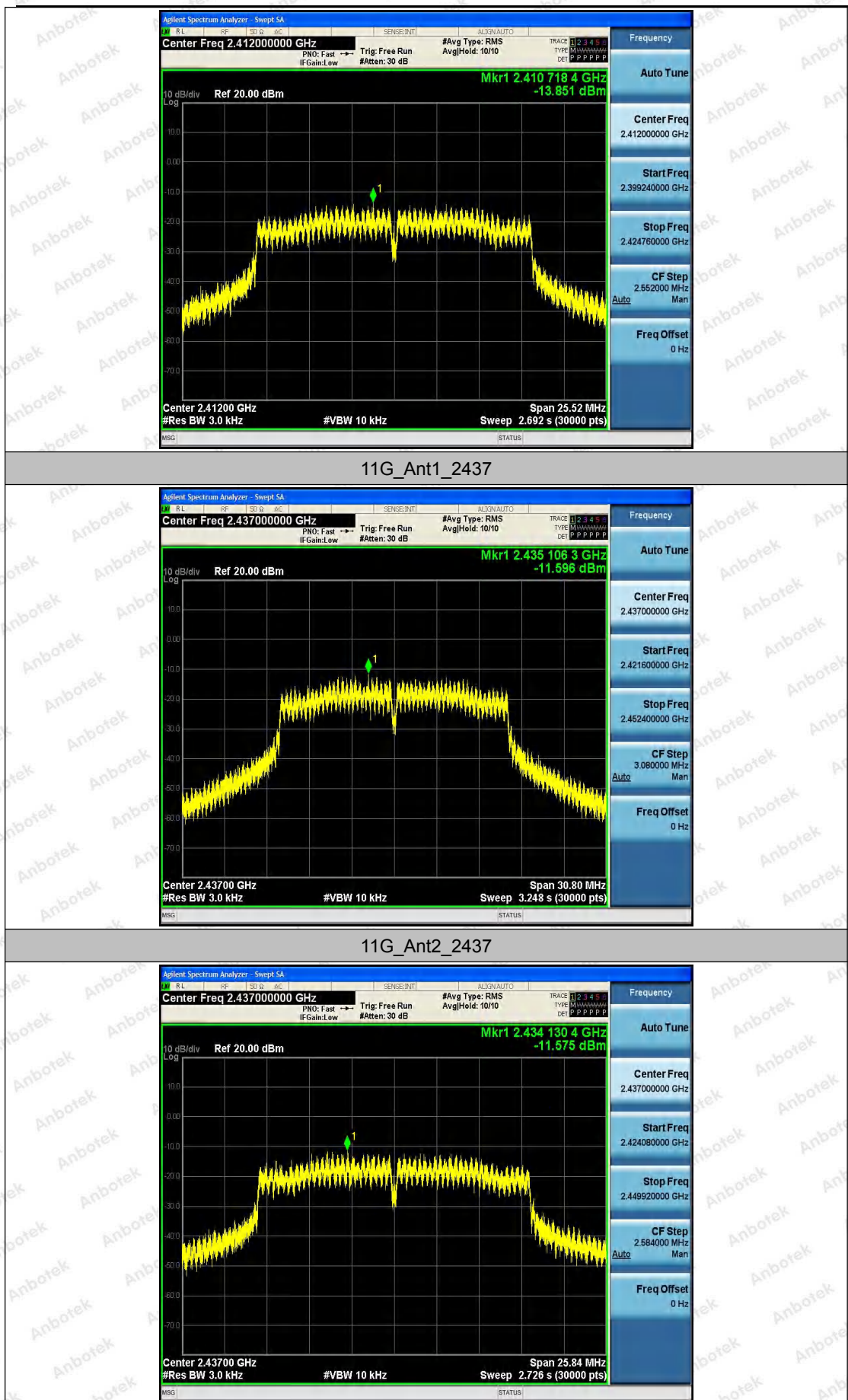


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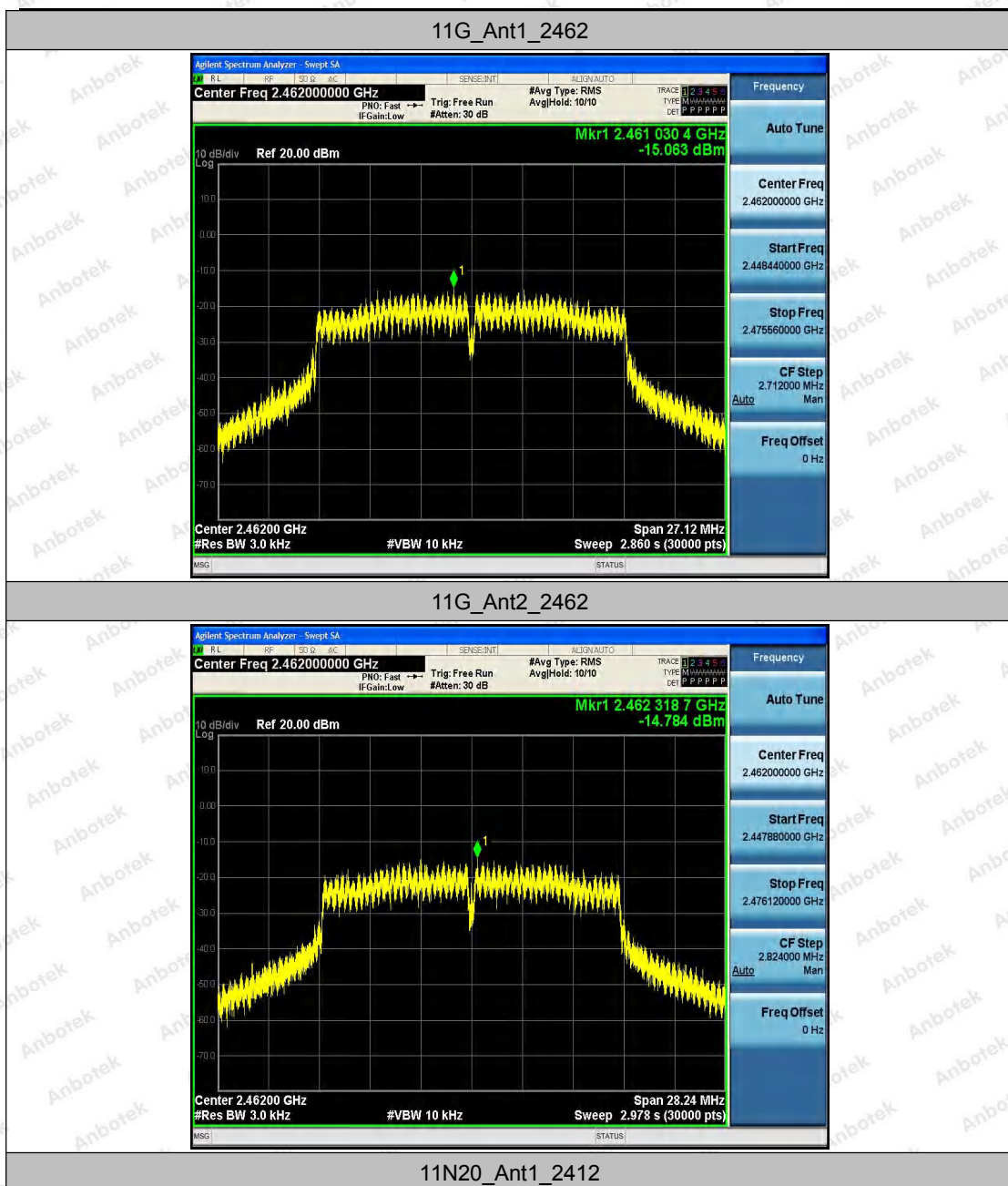


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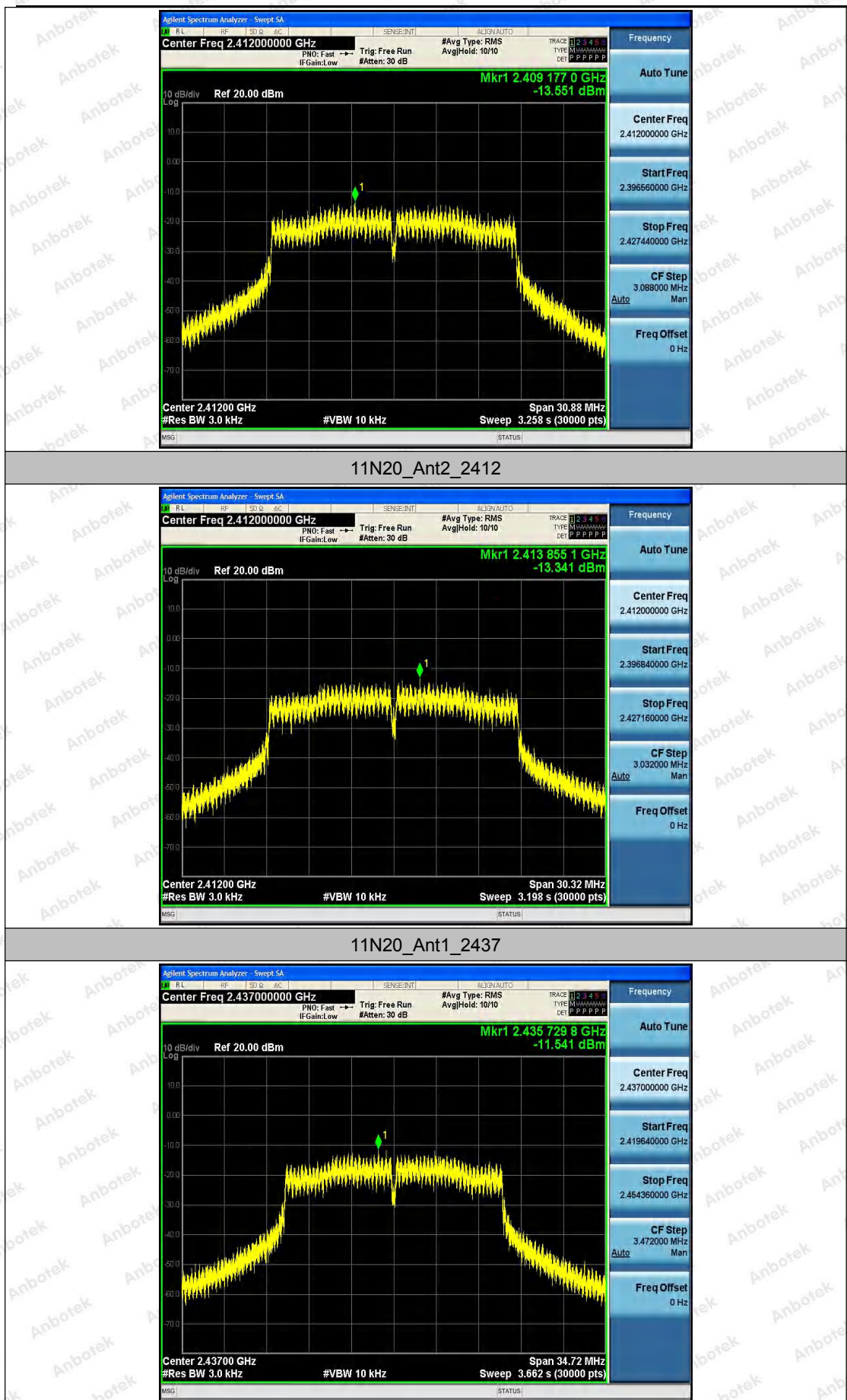


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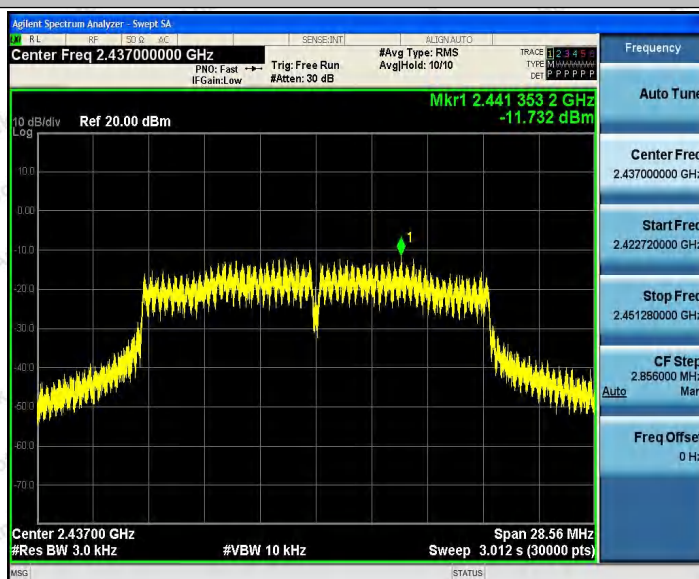
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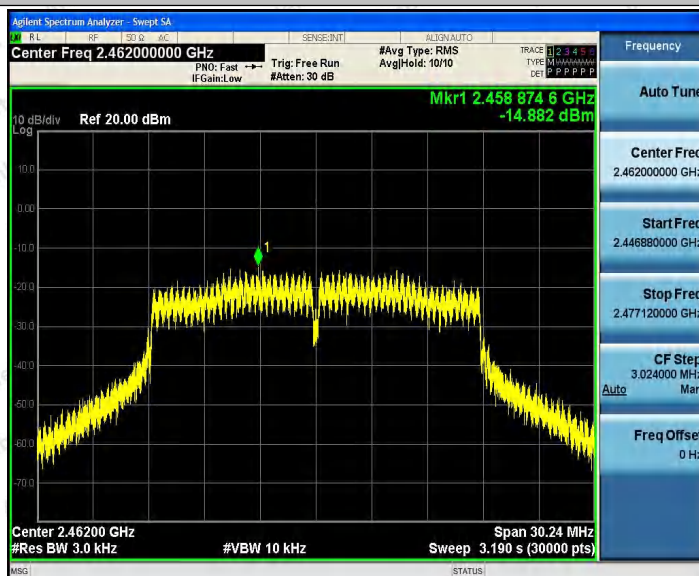
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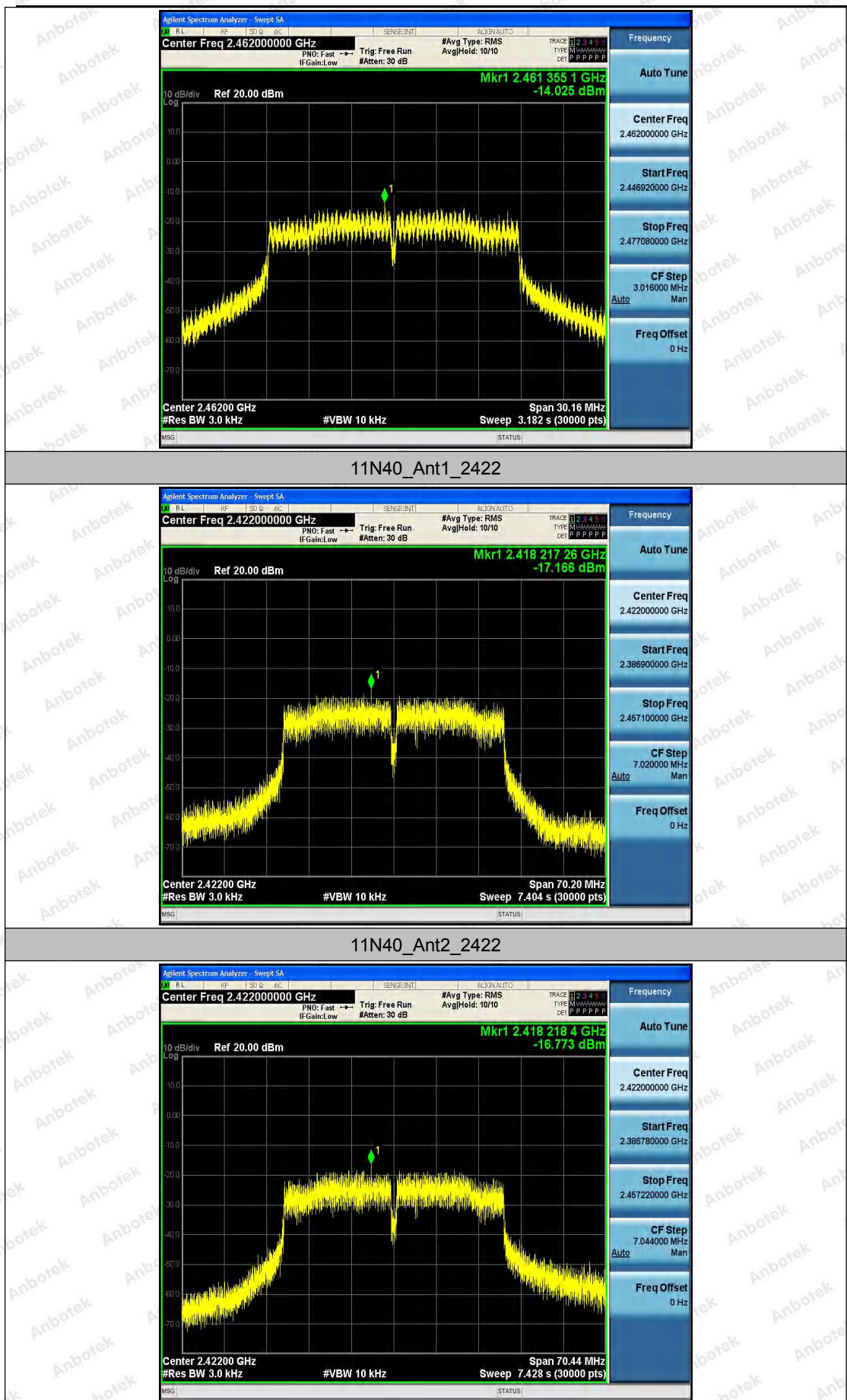
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11N20_Ant1_2462



11N20_Ant2_2462



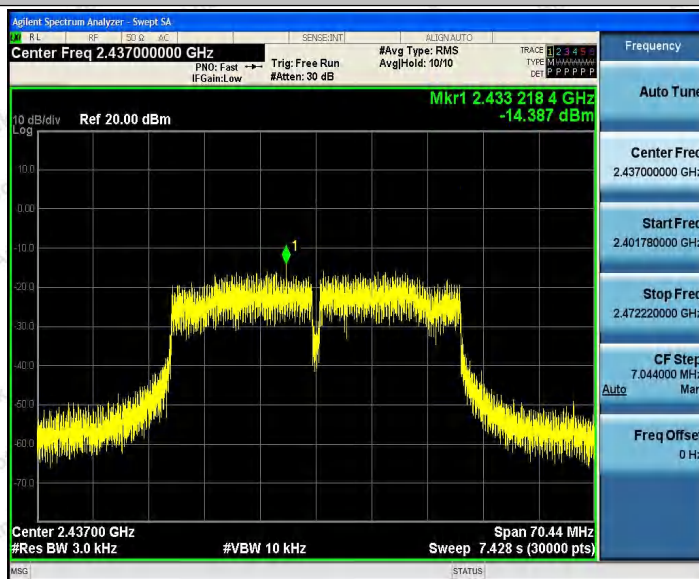
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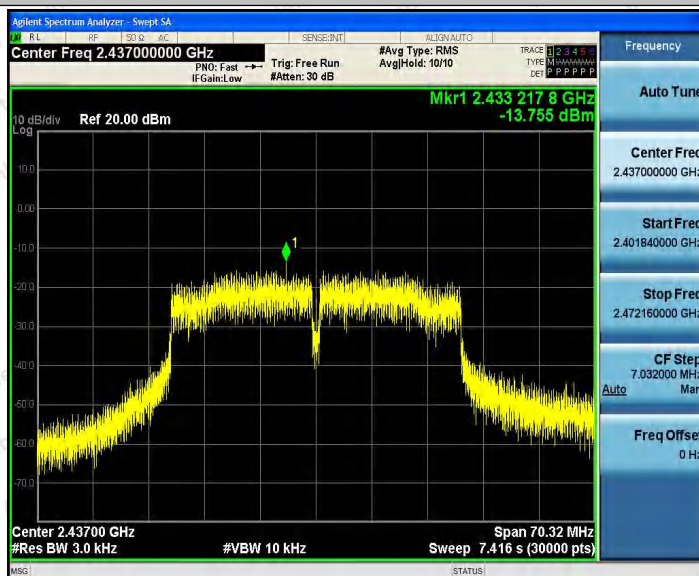
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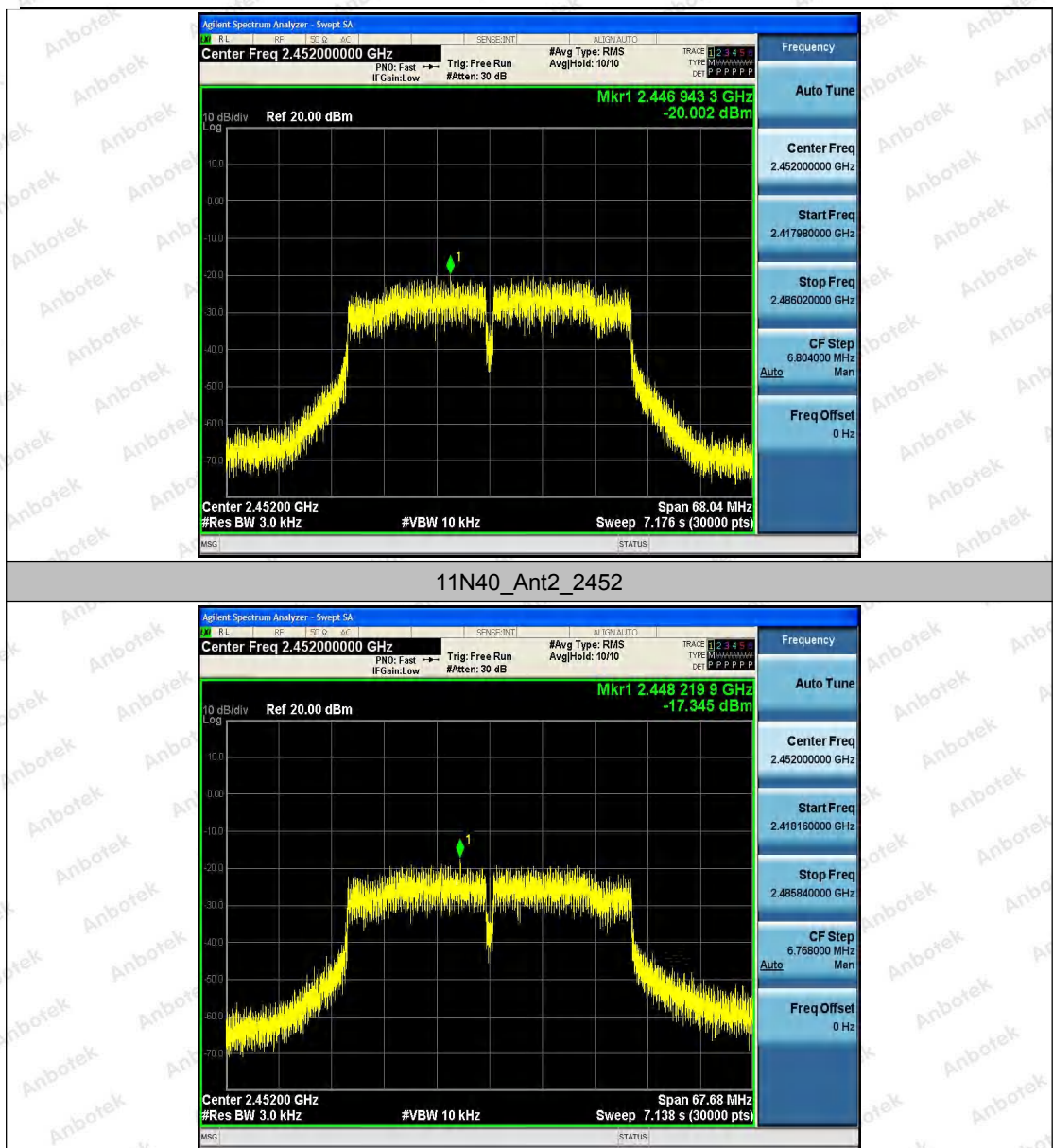
11N40_Ant1_2437



11N40_Ant2_2437



11N40_Ant1_2452



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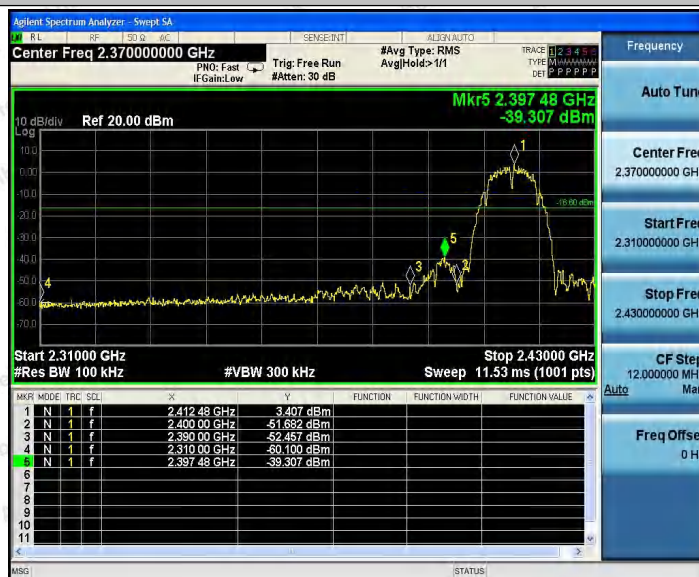
Appendix E: Band edge measurements

Test Result

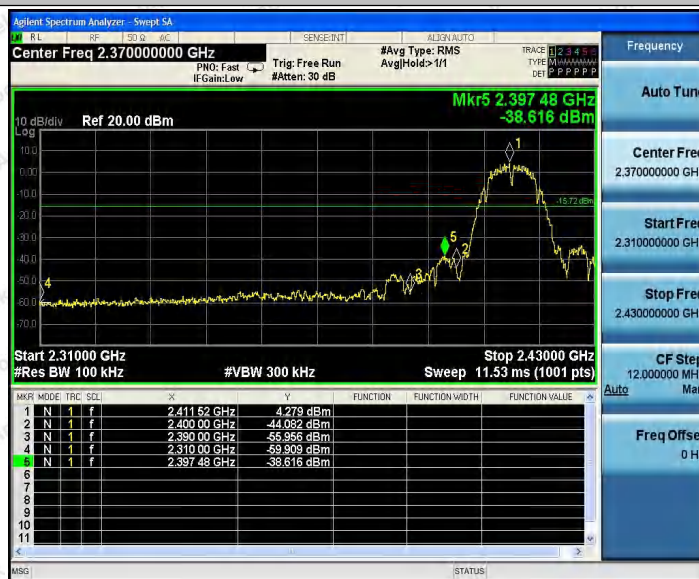
Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.40	-39.31	≤ -16.6	PASS
	Ant2	Low	2412	4.28	-38.62	≤ -15.72	PASS
	Ant1	High	2462	4.02	-52.74	≤ -15.98	PASS
	Ant2	High	2462	3.71	-47.94	≤ -16.29	PASS
11G	Ant1	Low	2412	0.37	-29.22	≤ -19.63	PASS
	Ant2	Low	2412	0.39	-28.6	≤ -19.61	PASS
	Ant1	High	2462	0.00	-52.37	≤ -20	PASS
	Ant2	High	2462	-0.49	-45.48	≤ -20.49	PASS
11N20	Ant1	Low	2412	0.46	-30.91	≤ -19.54	PASS
	Ant2	Low	2412	-0.27	-30.08	≤ -20.27	PASS
	Ant1	High	2462	-0.44	-49.49	≤ -20.44	PASS
	Ant2	High	2462	-5.36	-48.51	≤ -25.36	PASS
11N40	Ant1	Low	2422	-4.03	-33.64	≤ -24.03	PASS
	Ant2	Low	2422	-2.81	-33.52	≤ -22.81	PASS
	Ant1	High	2452	-5.42	-46.53	≤ -25.42	PASS
	Ant2	High	2452	-3.56	-36.95	≤ -23.56	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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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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11N40_Ant2_Low_2422



11N40_Ant1_High_2452



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