

Applicant: <u>DTC IP Holdings, LLC</u>	
Case No. : <u>PTC25082710501</u>	
EUT: <u>Interactive Flat Panel</u>	Model: <u>TM65</u>
Ambient Condition: <u>25</u> °C, <u>45</u> %RH, <u>101.325</u> kPa	
Test Date: <u>/</u>	Test Engineer: <u>Jack zhou</u>

Contents

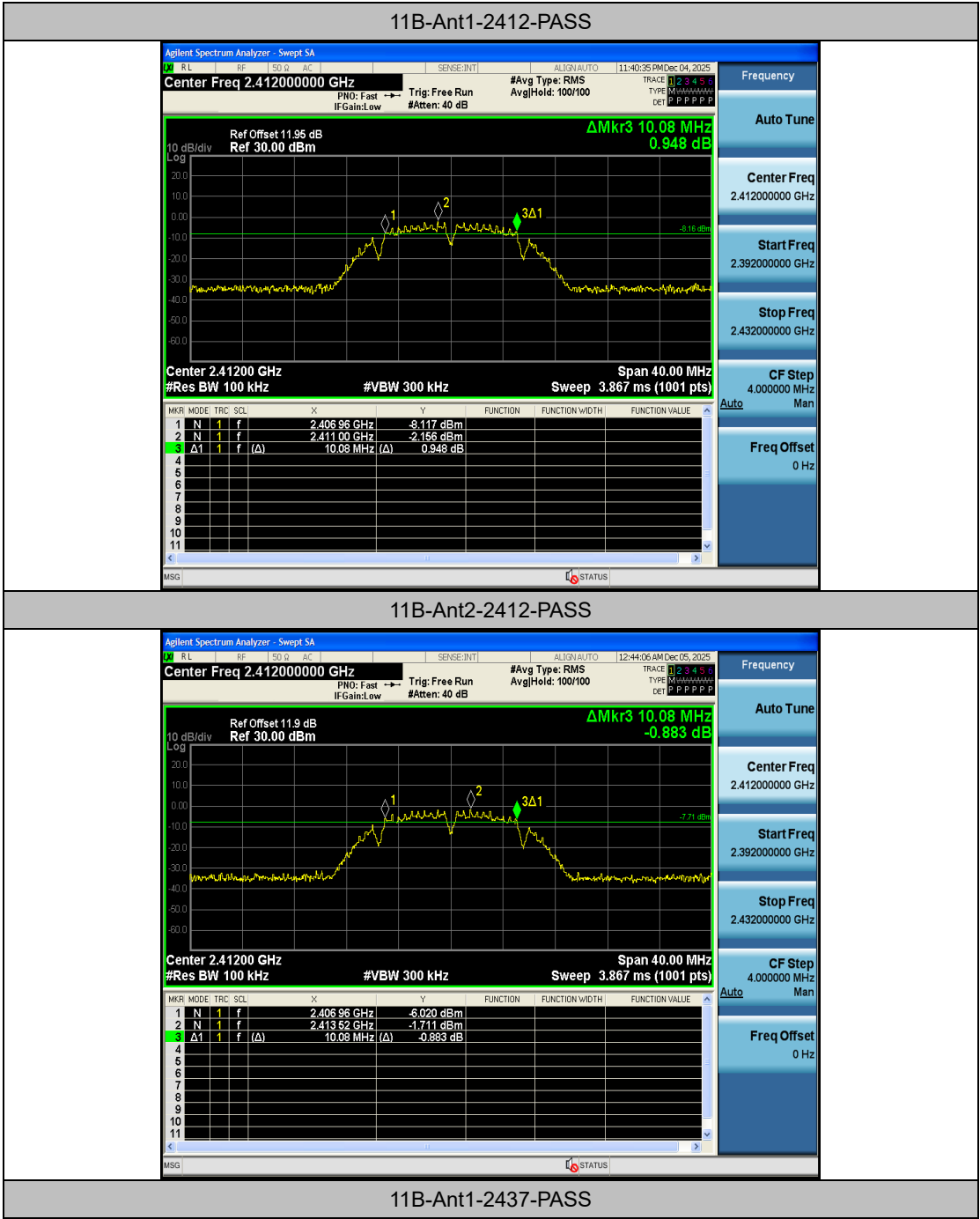
Appendix A: DTS Bandwidth3
 Test Result.....3
 Test Graphs4
Appendix B: Occupied Channel Bandwidth.....16
 Test Result.....16
 Test Graphs17
Appendix C: Maximum conducted output power29
 Test Result Peak.....29
Appendix D: Maximum power spectral density30
 Test Result.....30
 Test Graphs31
Appendix F: Band edge measurements43
 Test Result.....43
 Test Graphs44
Appendix G: Conducted Spurious Emission52
 Test Result.....52
 Test Graphs54
Appendix H: Duty Cycle.....90
 Test Result.....90
 Test Graphs91

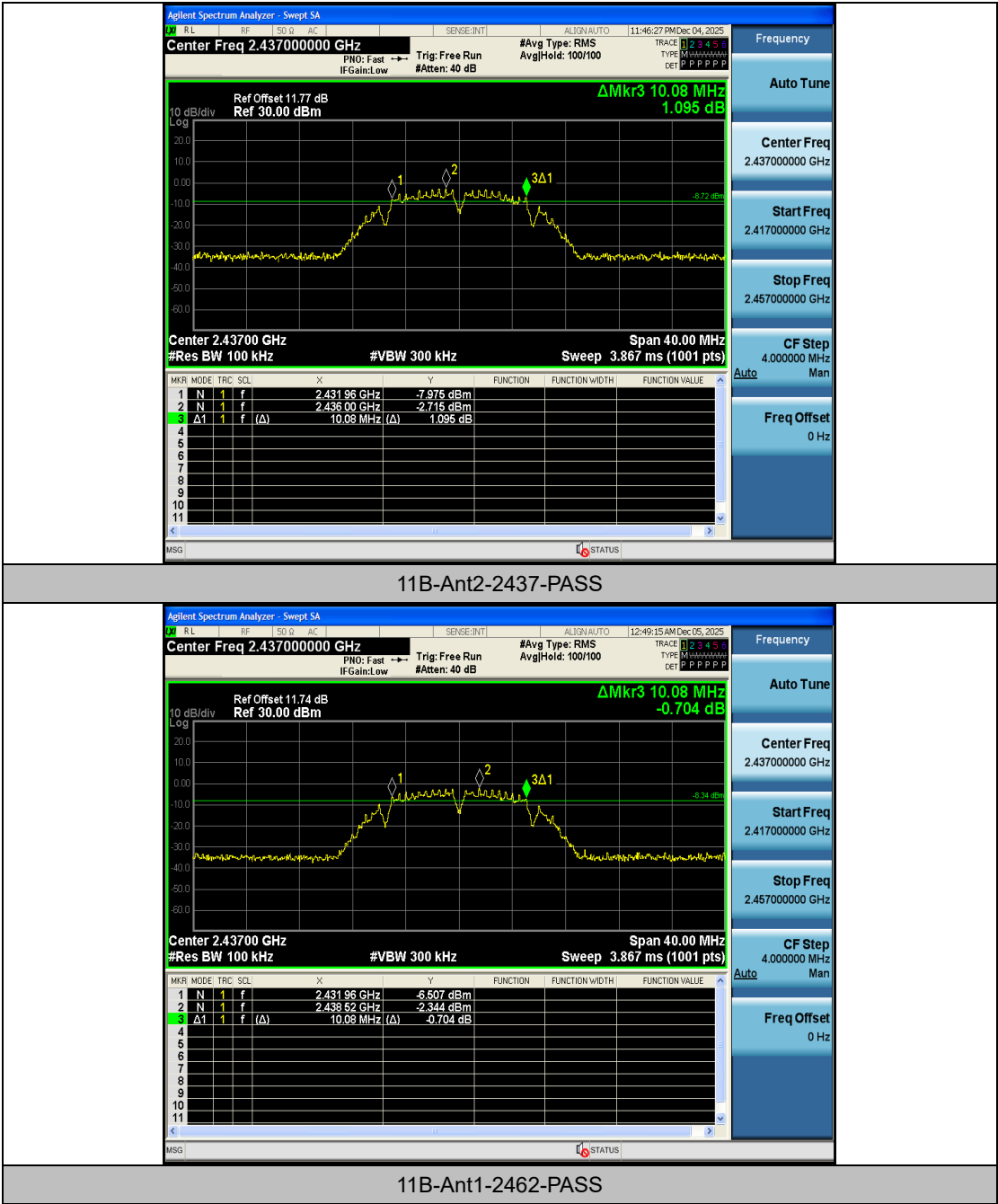
Appendix A: DTS Bandwidth

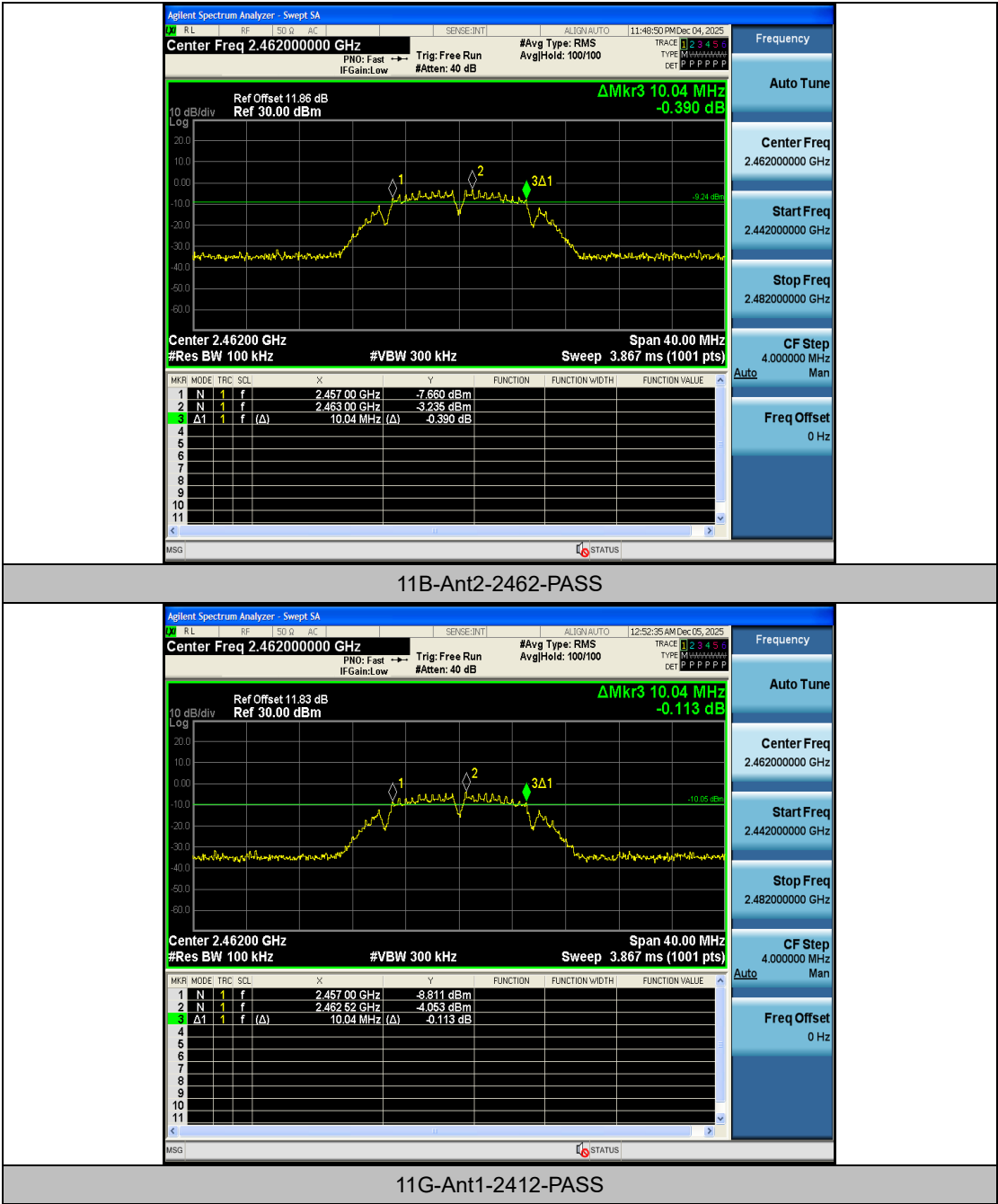
Test Result

TestMode	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
11B	Ant2	2412	10.080	2406.960	2417.040	0.5	PASS
11B	Ant1	2437	10.080	2431.960	2442.040	0.5	PASS
11B	Ant2	2437	10.080	2431.960	2442.040	0.5	PASS
11B	Ant1	2462	10.040	2457.000	2467.040	0.5	PASS
11B	Ant2	2462	10.040	2457.000	2467.040	0.5	PASS
11G	Ant1	2412	15.120	2404.440	2419.560	0.5	PASS
11G	Ant2	2412	15.080	2404.480	2419.560	0.5	PASS
11G	Ant1	2437	15.120	2429.440	2444.560	0.5	PASS
11G	Ant2	2437	15.120	2429.440	2444.560	0.5	PASS
11G	Ant1	2462	15.120	2454.440	2469.560	0.5	PASS
11G	Ant2	2462	15.080	2454.440	2469.520	0.5	PASS
11N20	Ant1	2412	15.120	2404.440	2419.560	0.5	PASS
11N20	Ant2	2412	15.120	2404.440	2419.560	0.5	PASS
11N20	Ant1	2437	15.680	2429.440	2445.120	0.5	PASS
11N20	Ant2	2437	15.040	2429.480	2444.520	0.5	PASS
11N20	Ant1	2462	15.120	2454.440	2469.560	0.5	PASS
11N20	Ant2	2462	15.120	2454.440	2469.560	0.5	PASS
11N40	Ant1	2422	30.160	2404.400	2434.560	0.5	PASS
11N40	Ant2	2422	35.040	2404.480	2439.520	0.5	PASS
11N40	Ant1	2437	30.080	2424.440	2454.520	0.5	PASS
11N40	Ant2	2437	35.040	2419.480	2454.520	0.5	PASS
11N40	Ant1	2452	29.040	2440.720	2469.760	0.5	PASS
11N40	Ant2	2452	35.040	2434.480	2469.520	0.5	PASS

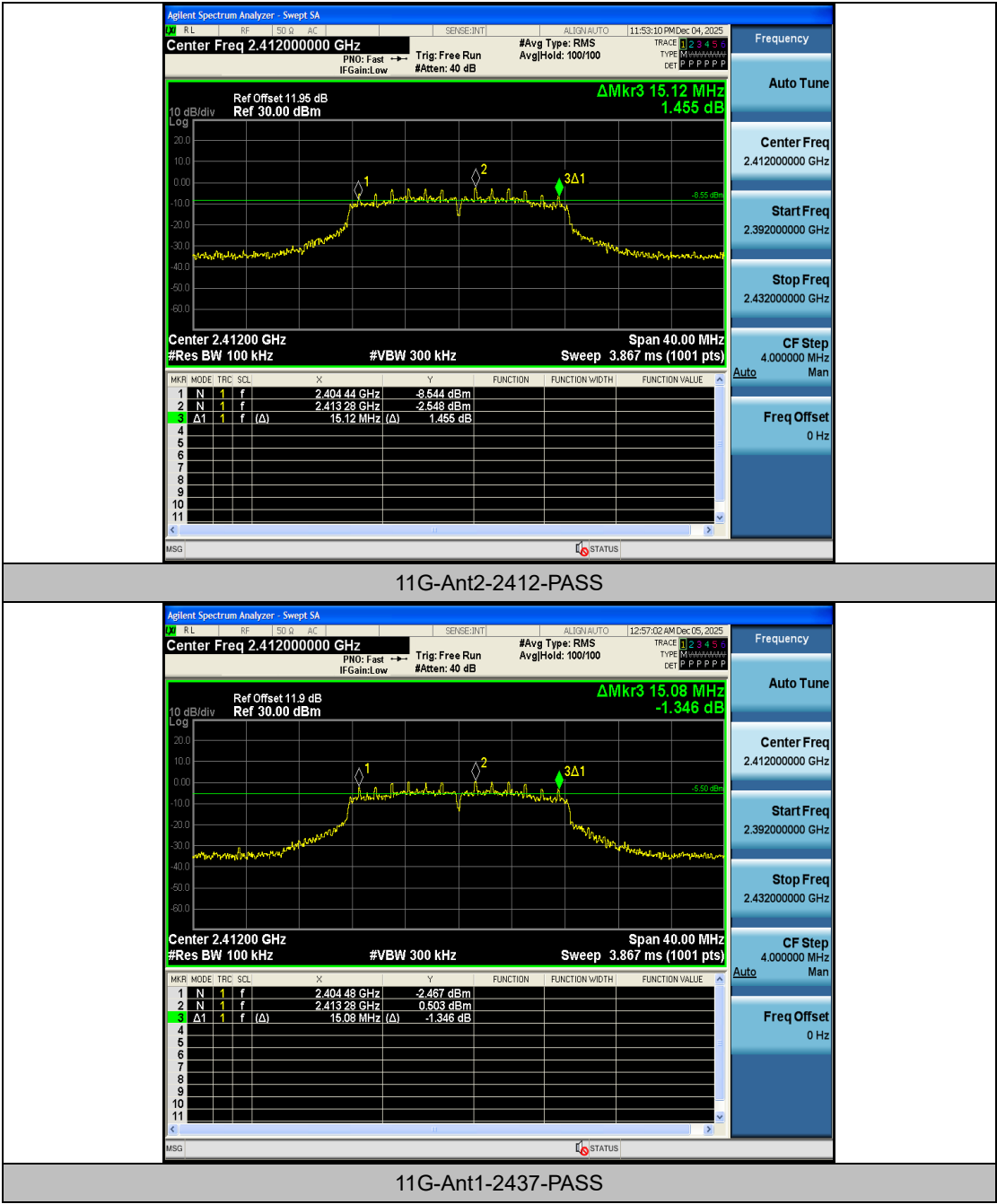
Test Graphs

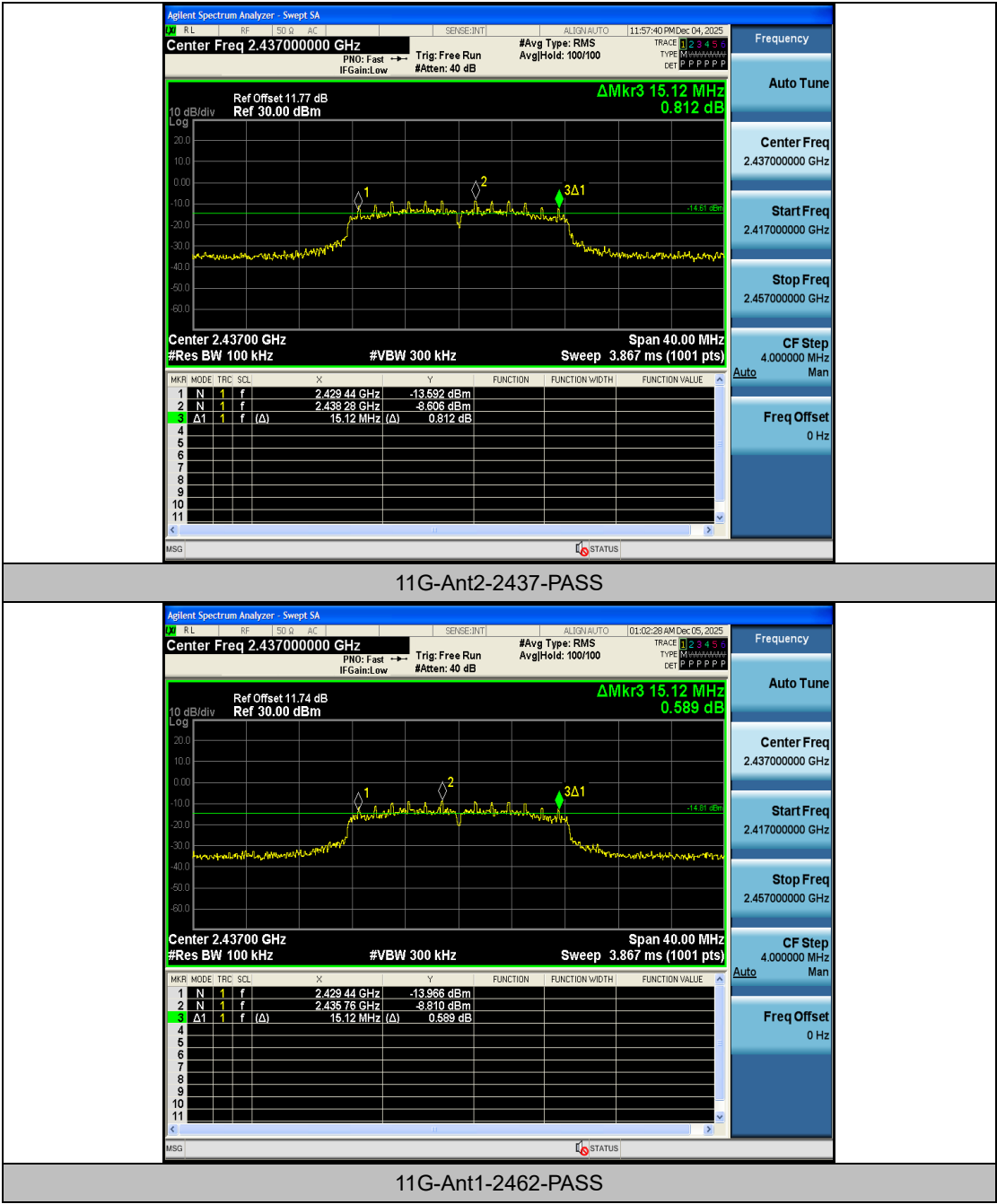




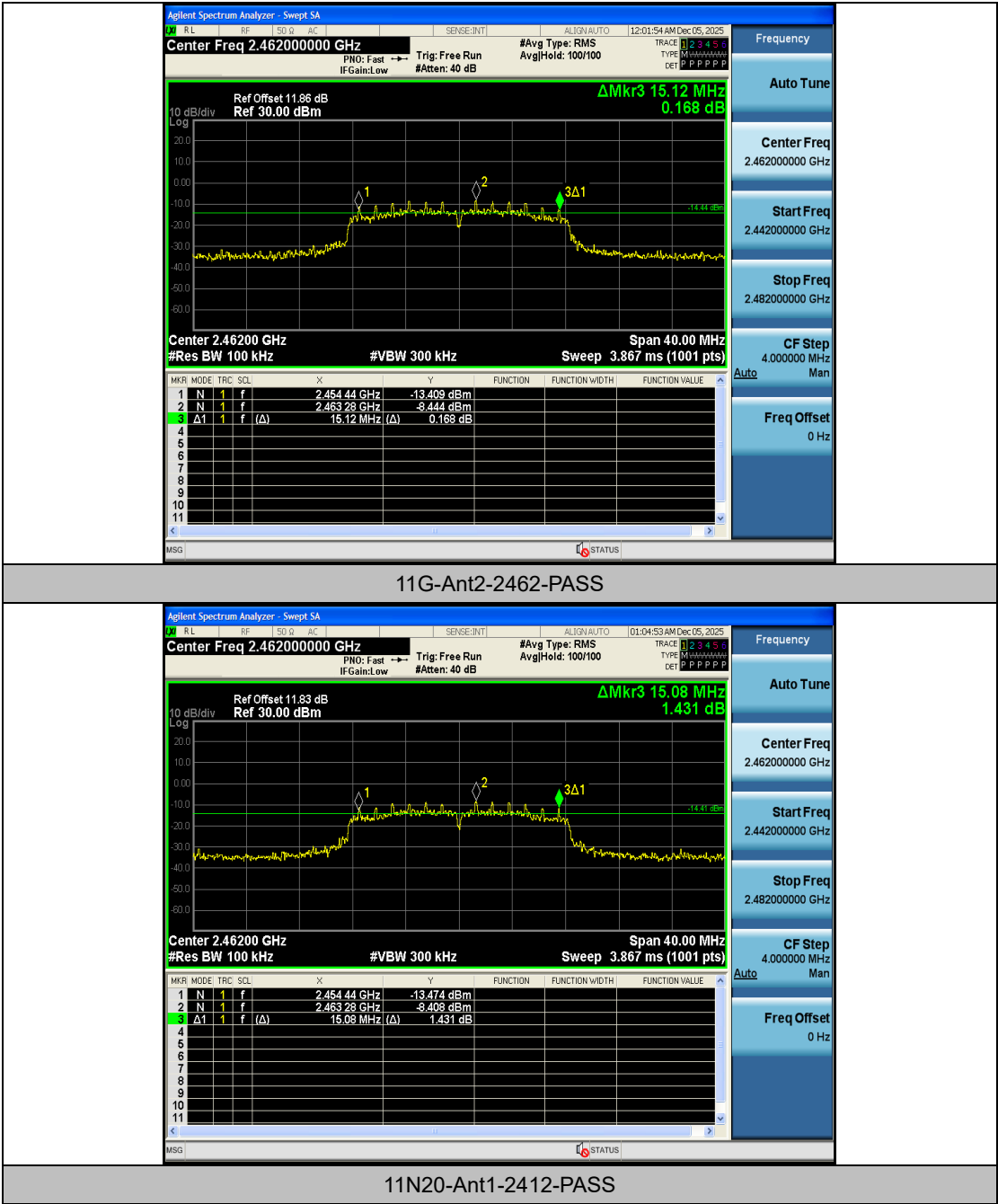


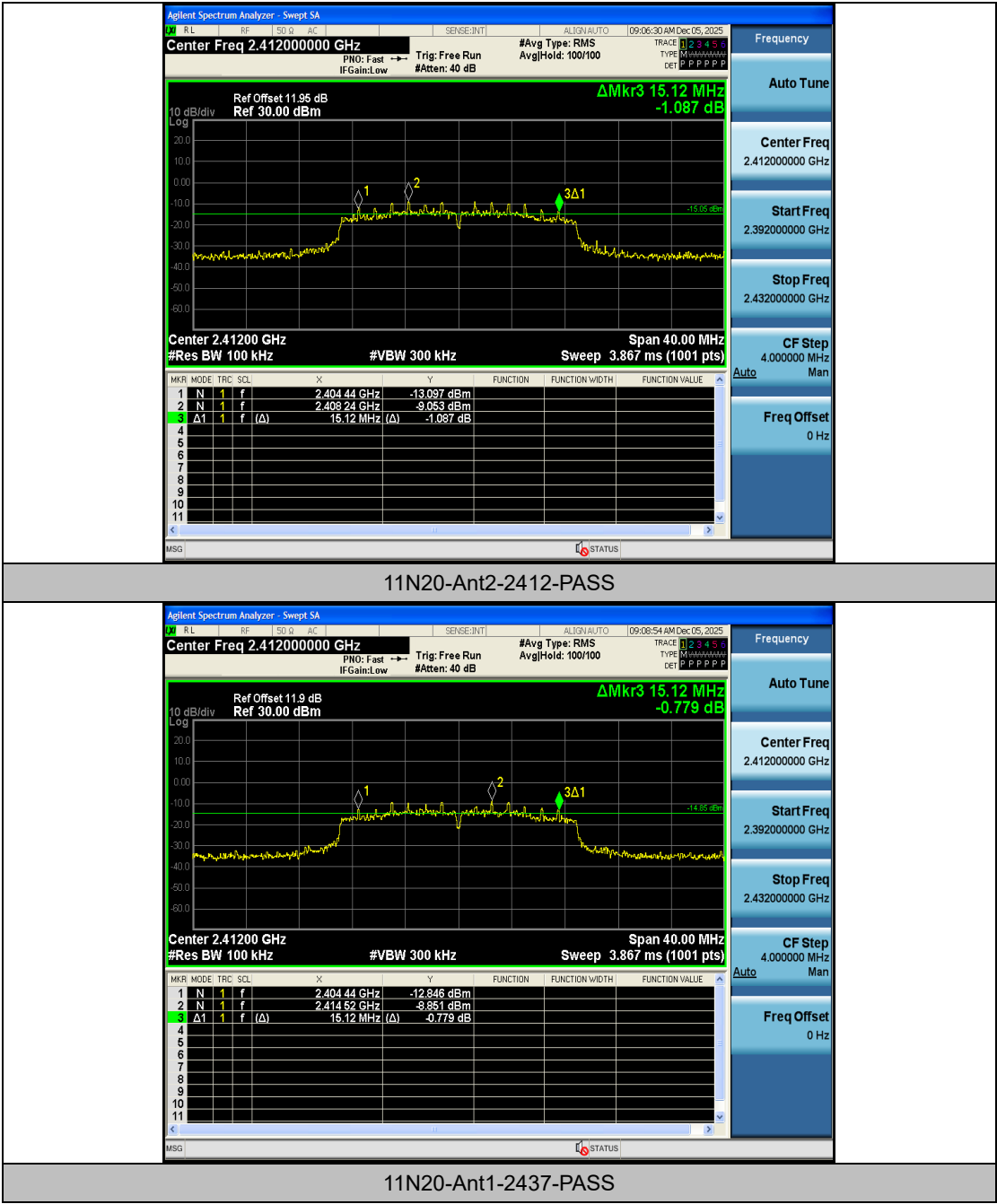
11G-Ant1-2412-PASS

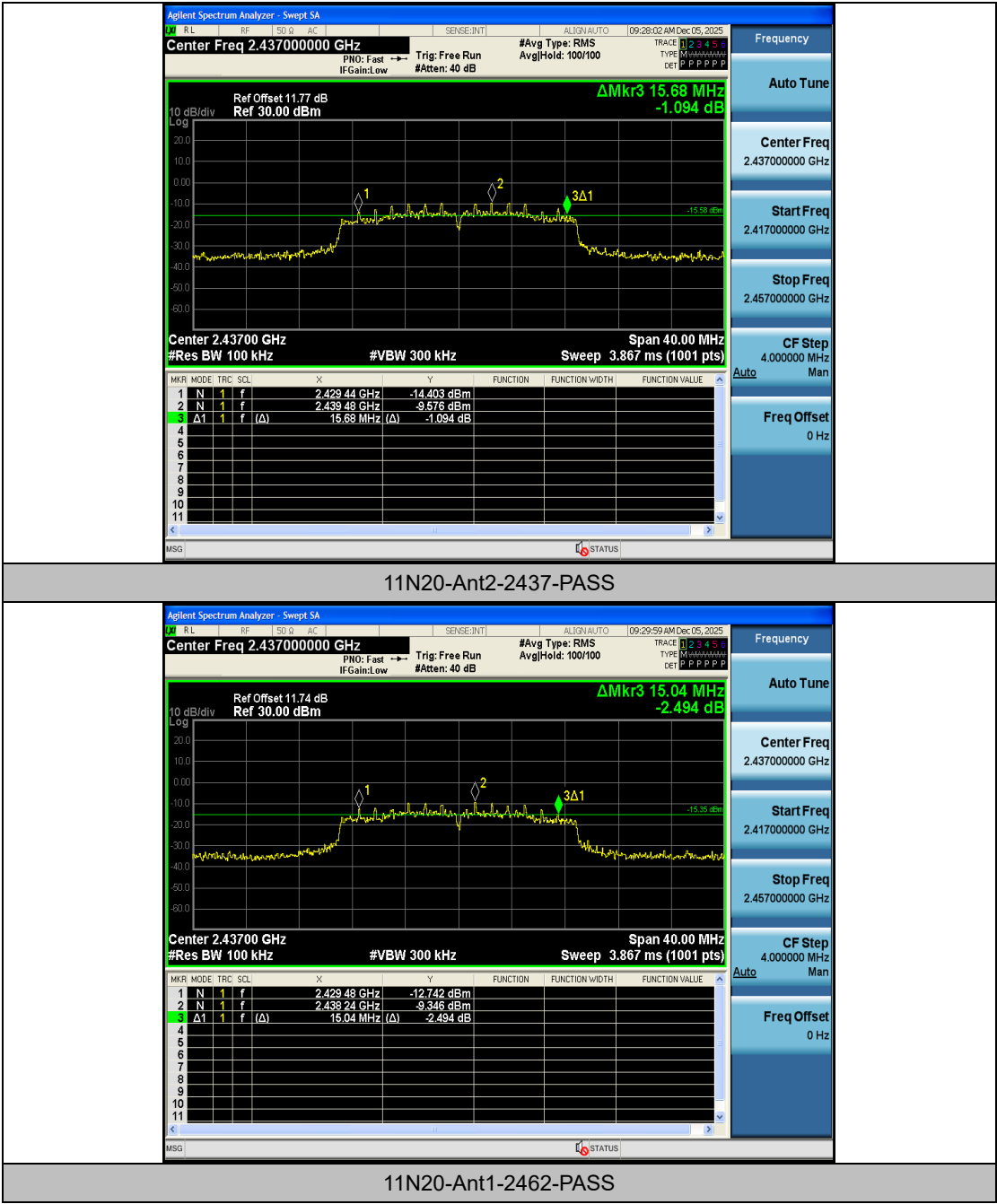


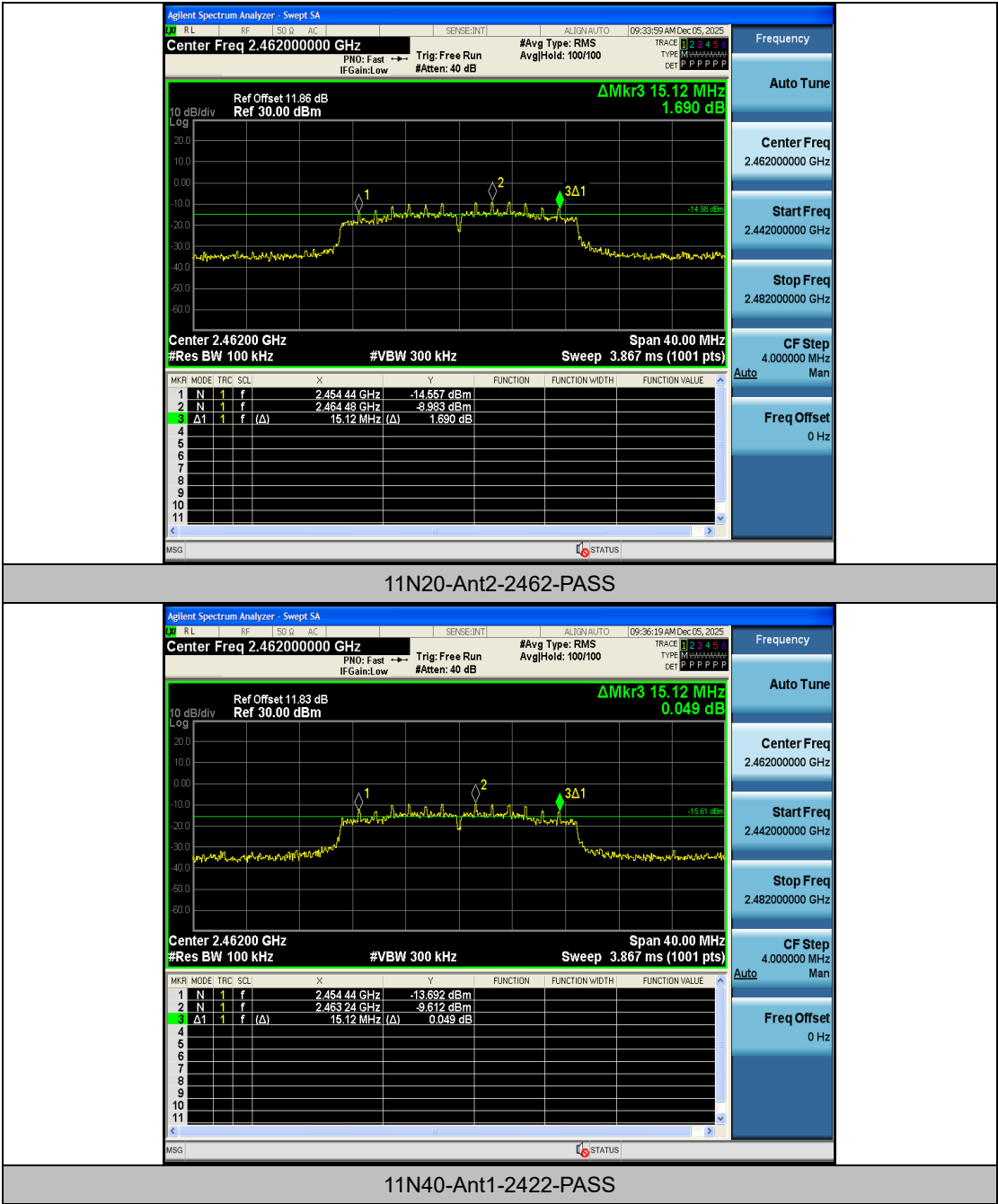


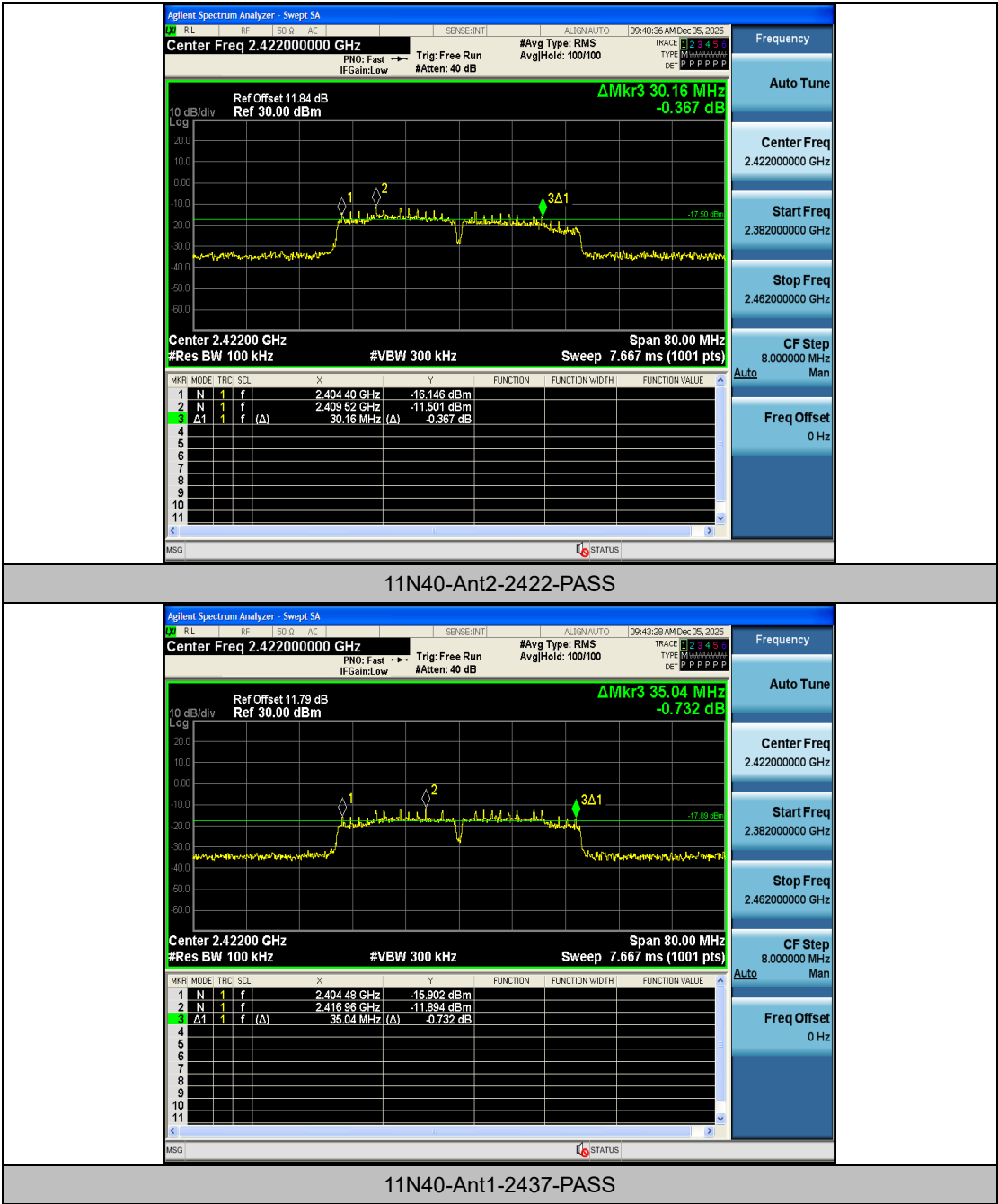
11G-Ant1-2462-PASS

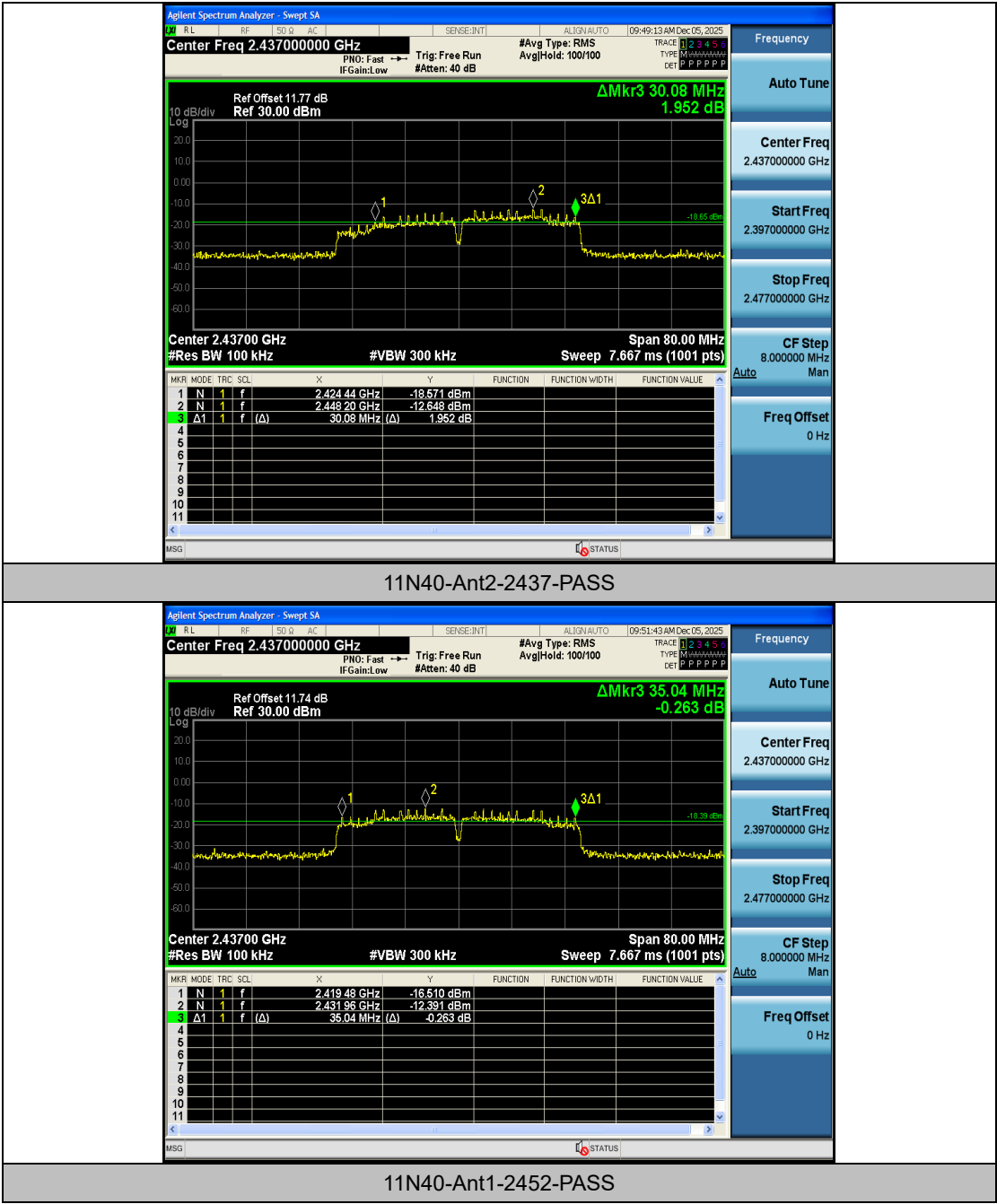


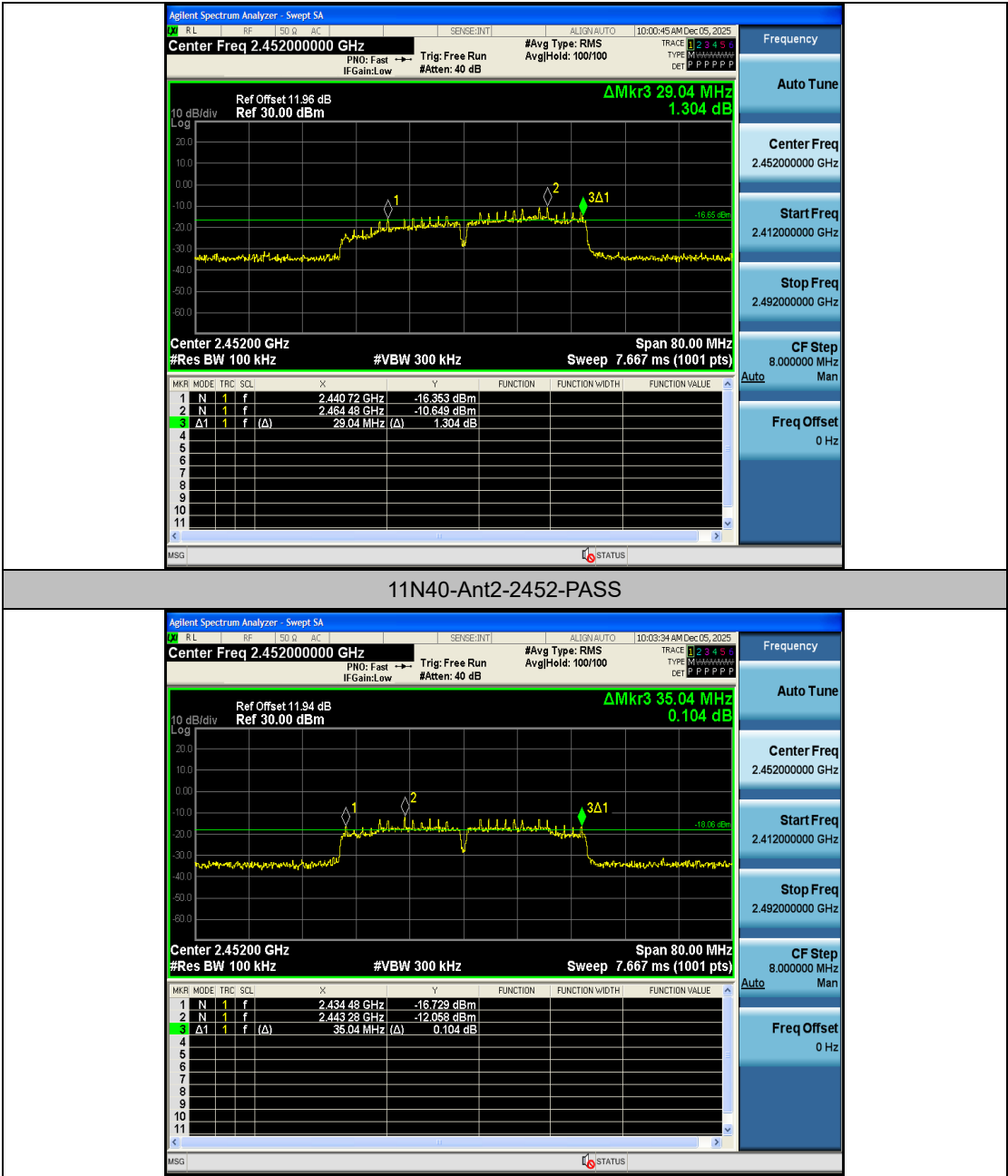










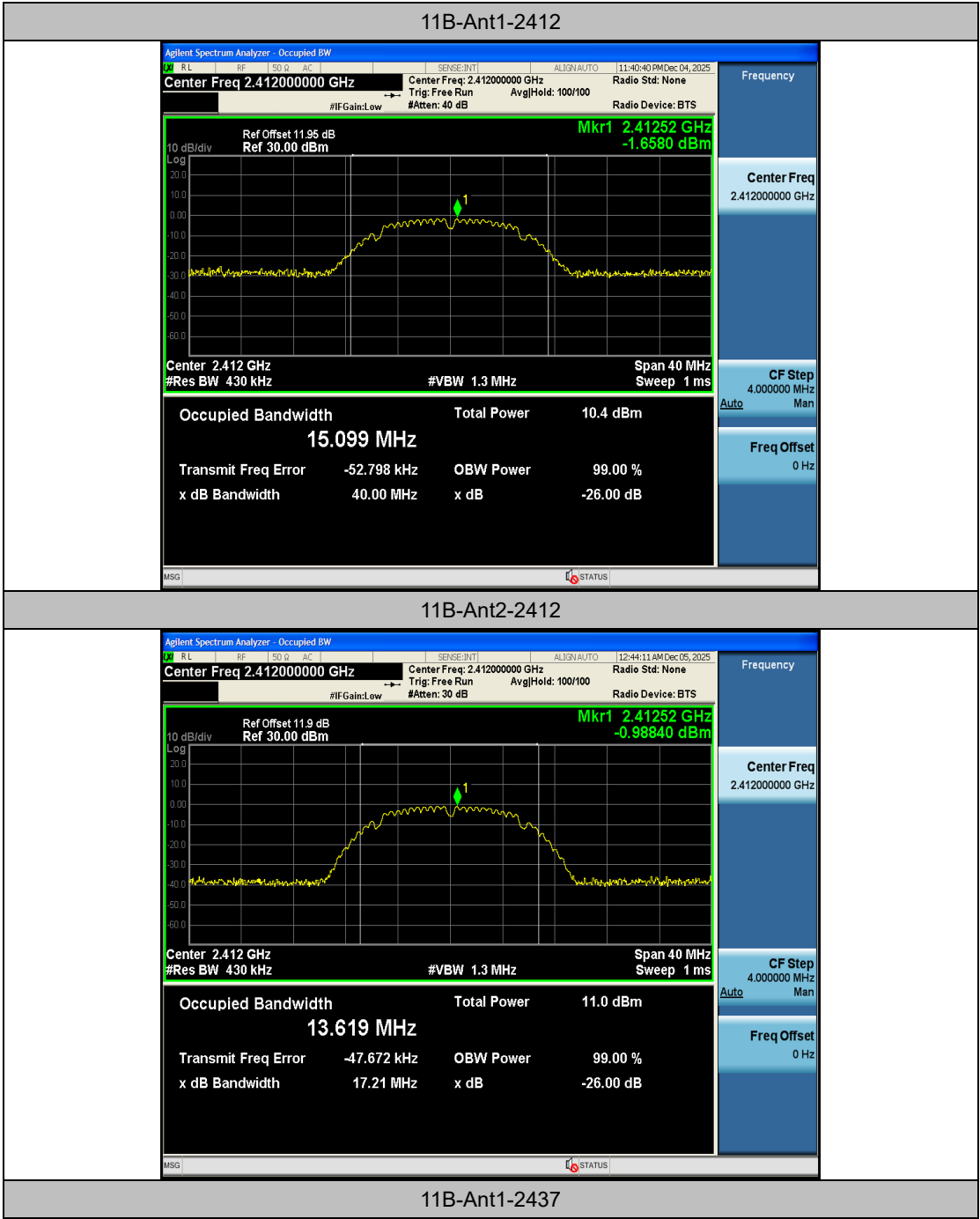


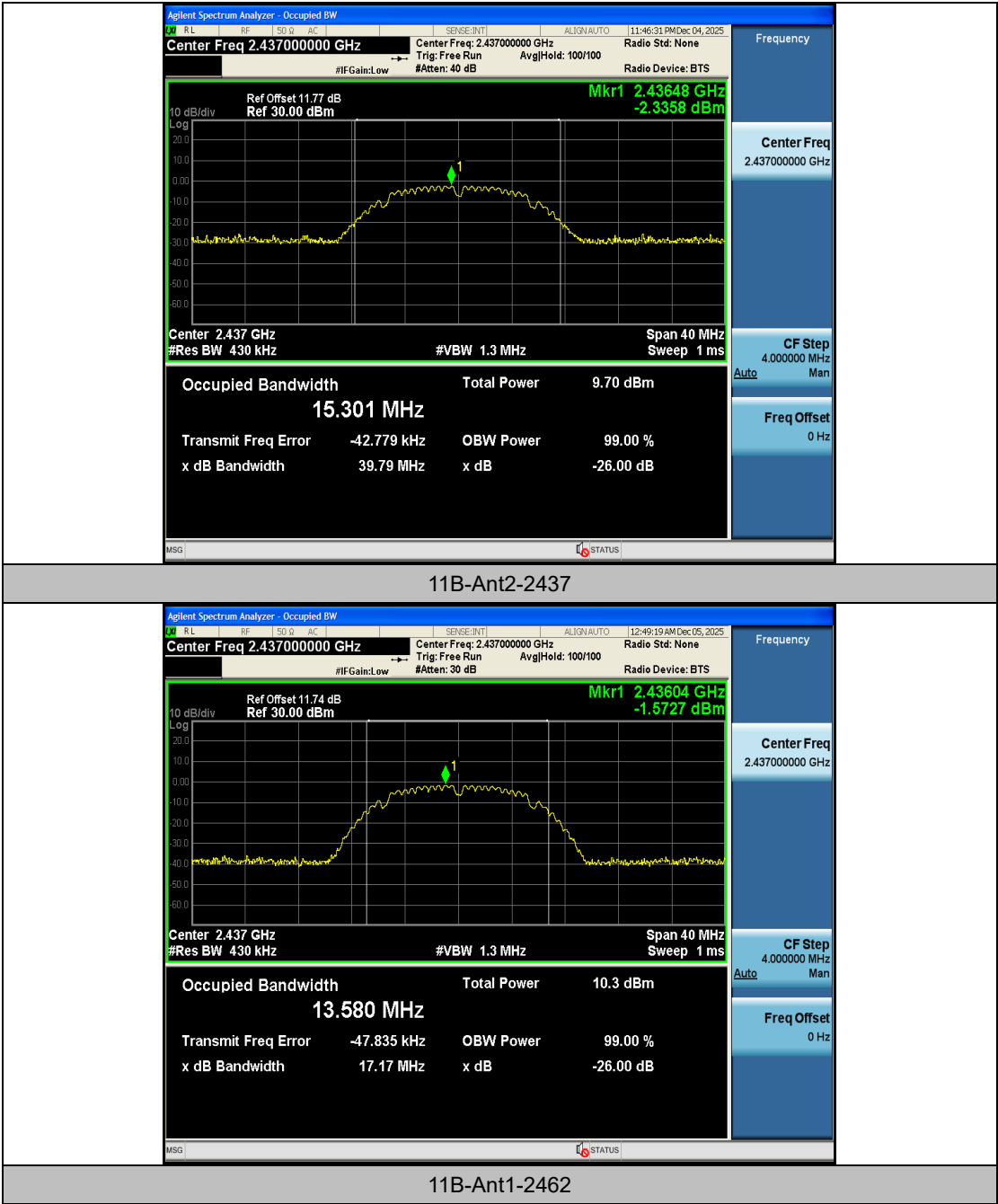
Appendix B: Occupied Channel Bandwidth

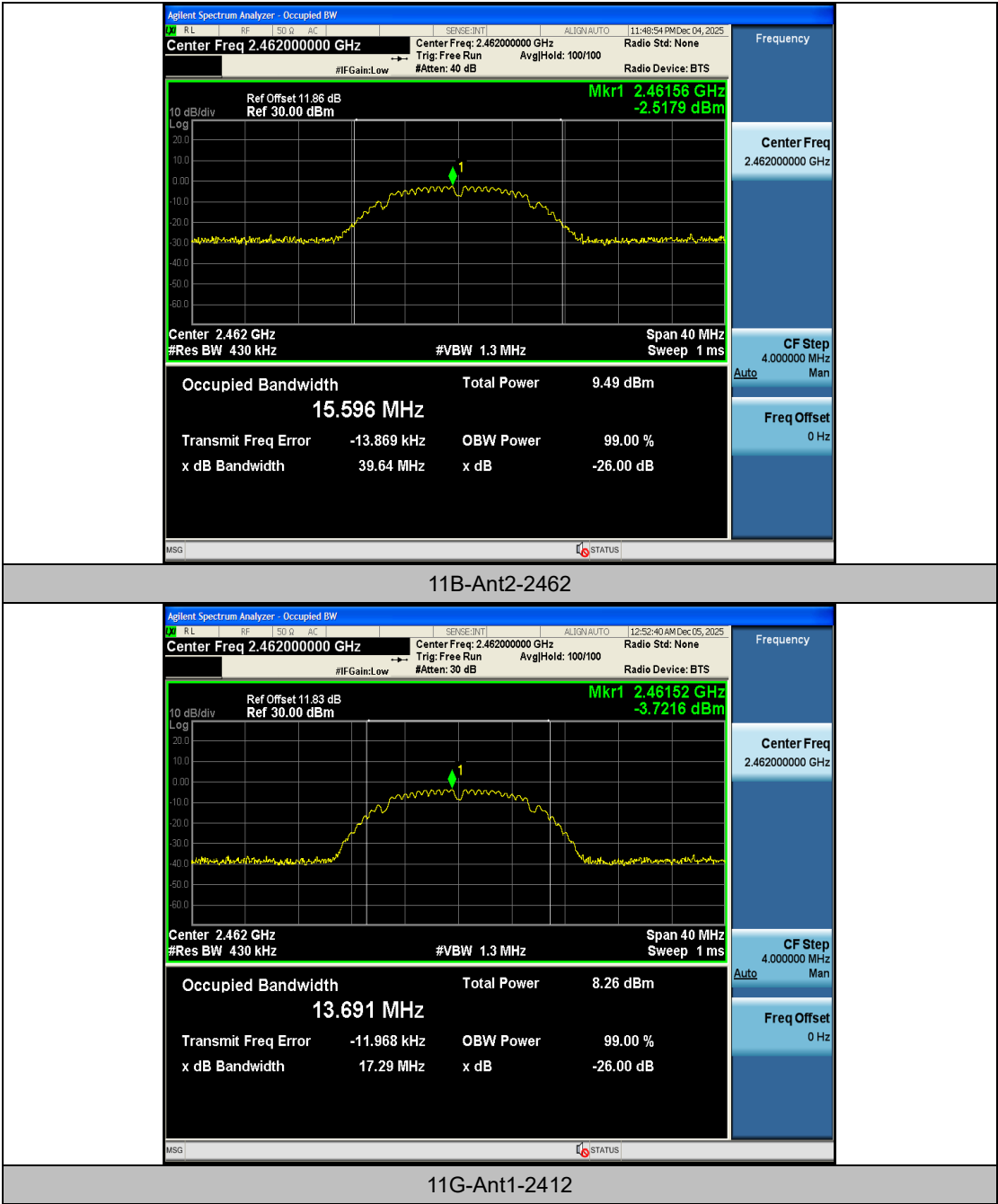
Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.099	2404.3977	2419.4967	---	---
11B	Ant2	2412	13.619	2405.1428	2418.7618	---	---
11B	Ant1	2437	15.301	2429.3067	2444.6077	---	---
11B	Ant2	2437	13.580	2430.1622	2443.7422	---	---
11B	Ant1	2462	15.596	2454.1881	2469.7841	---	---
11B	Ant2	2462	13.691	2455.1425	2468.8335	---	---
11G	Ant1	2412	17.523	2403.1990	2420.7220	---	---
11G	Ant2	2412	16.919	2403.5193	2420.4383	---	---
11G	Ant1	2437	17.098	2428.4255	2445.5235	---	---
11G	Ant2	2437	16.987	2428.4894	2445.4764	---	---
11G	Ant1	2462	17.081	2453.4597	2470.5407	---	---
11G	Ant2	2462	17.150	2453.4182	2470.5682	---	---
11N20	Ant1	2412	18.064	2402.9217	2420.9857	---	---
11N20	Ant2	2412	18.097	2402.9141	2421.0111	---	---
11N20	Ant1	2437	18.026	2428.0308	2446.0568	---	---
11N20	Ant2	2437	17.988	2427.9610	2445.9490	---	---
11N20	Ant1	2462	18.046	2453.1074	2471.1534	---	---
11N20	Ant2	2462	18.042	2452.9721	2471.0141	---	---
11N40	Ant1	2422	36.392	2403.5069	2439.8989	---	---
11N40	Ant2	2422	36.222	2403.8720	2440.0940	---	---
11N40	Ant1	2437	36.239	2419.2951	2455.5341	---	---
11N40	Ant2	2437	36.142	2418.9312	2455.0732	---	---
11N40	Ant1	2452	36.056	2434.6757	2470.7317	---	---
11N40	Ant2	2452	36.232	2433.8720	2470.1040	---	---

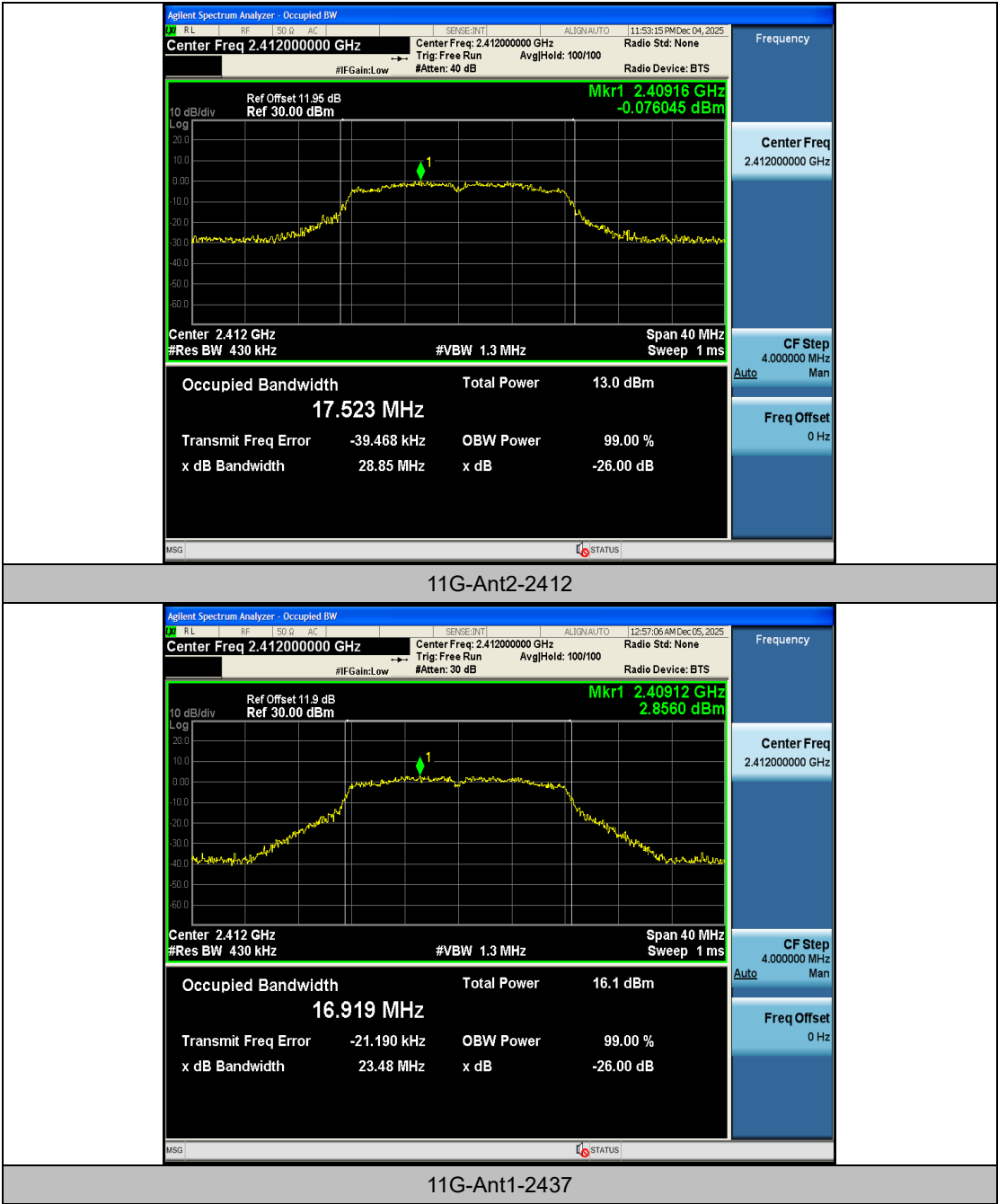
Test Graphs

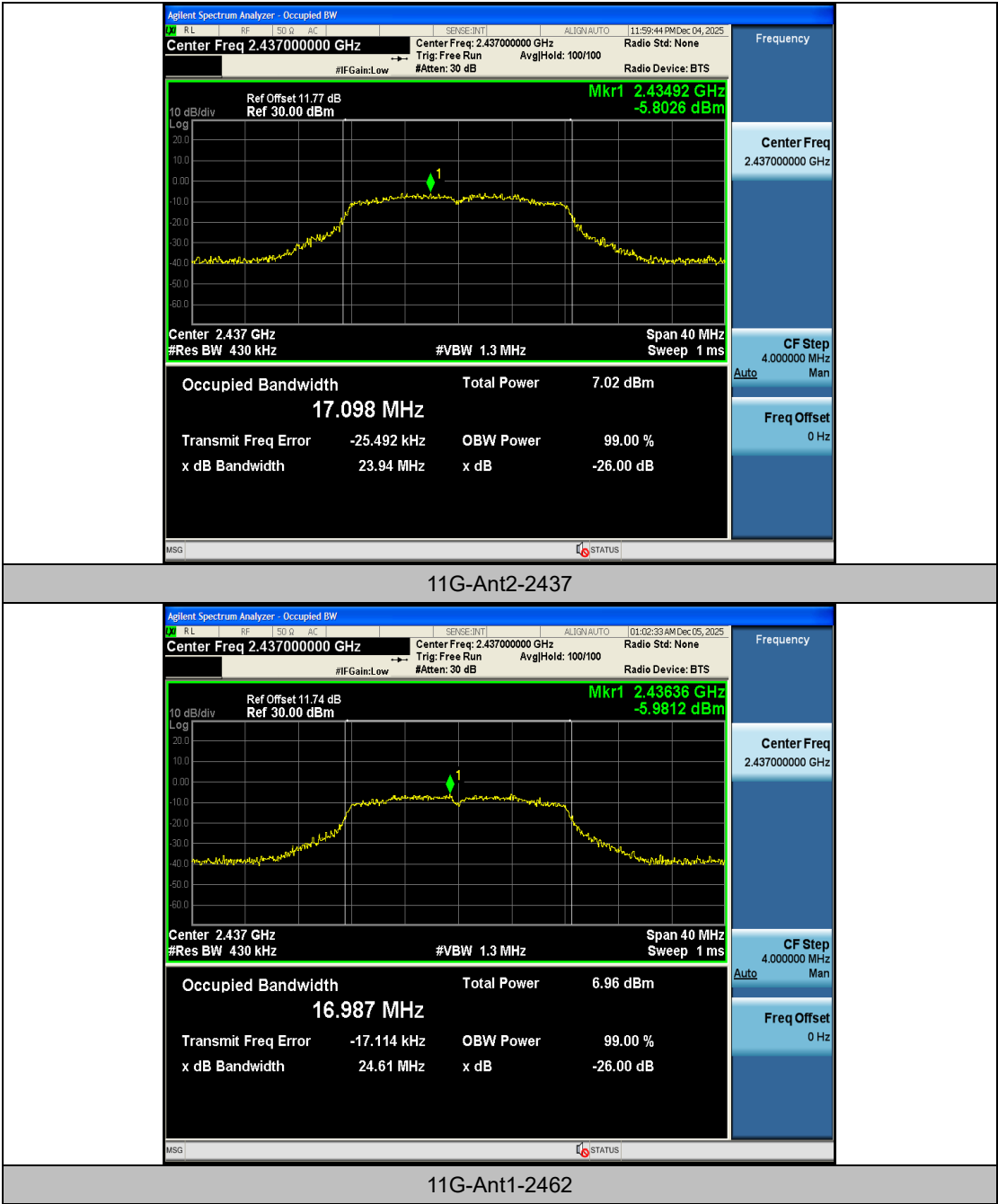


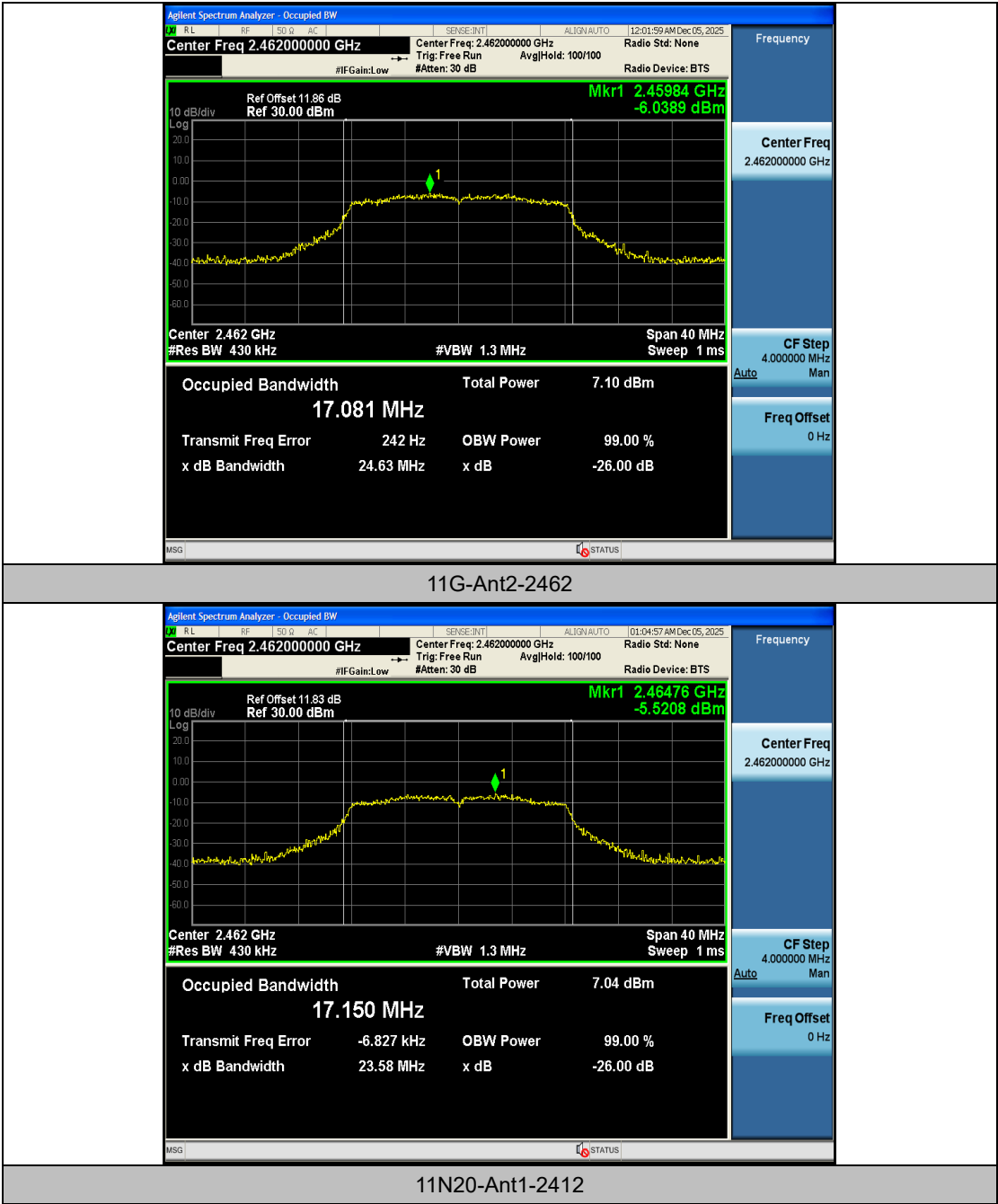


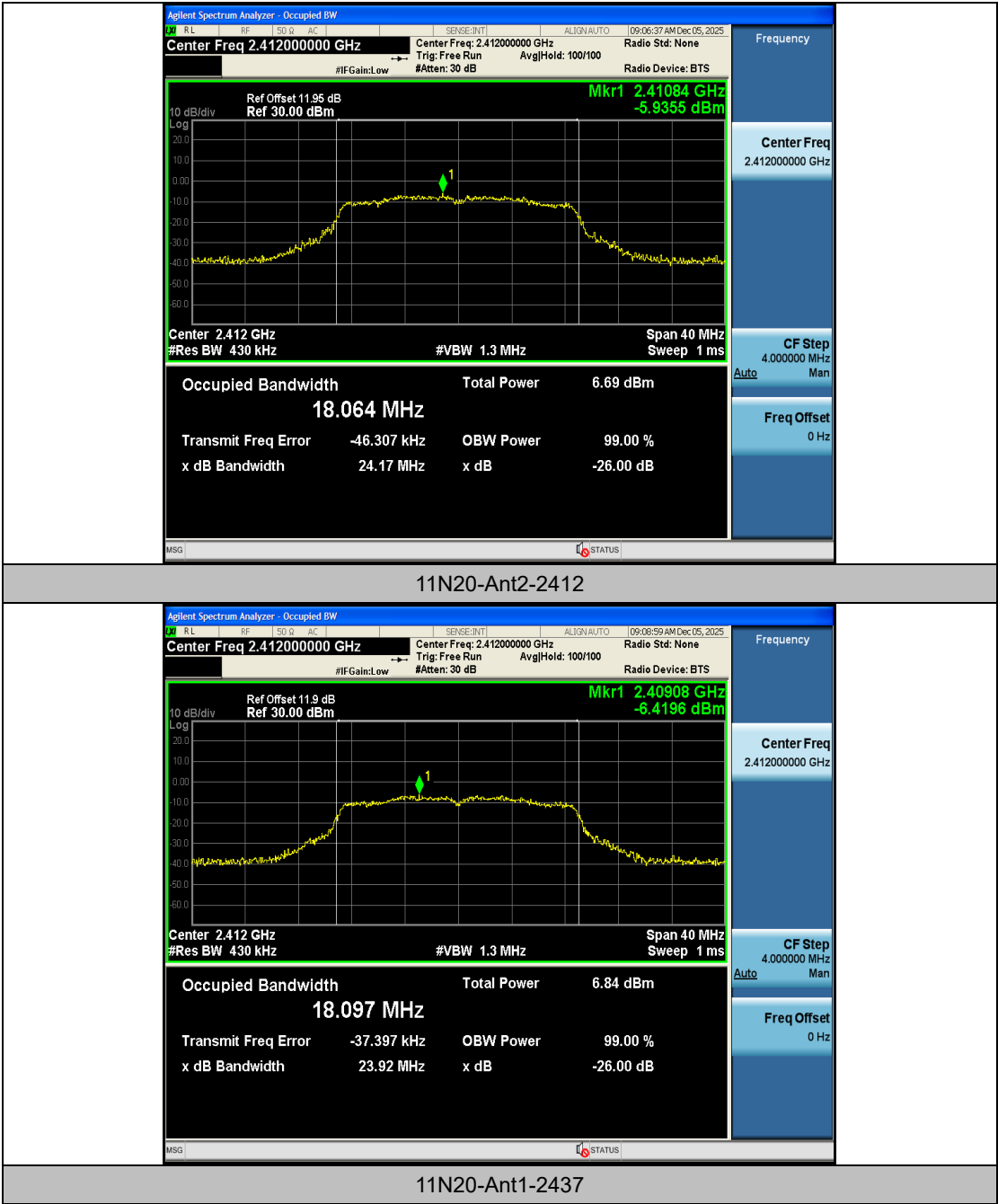


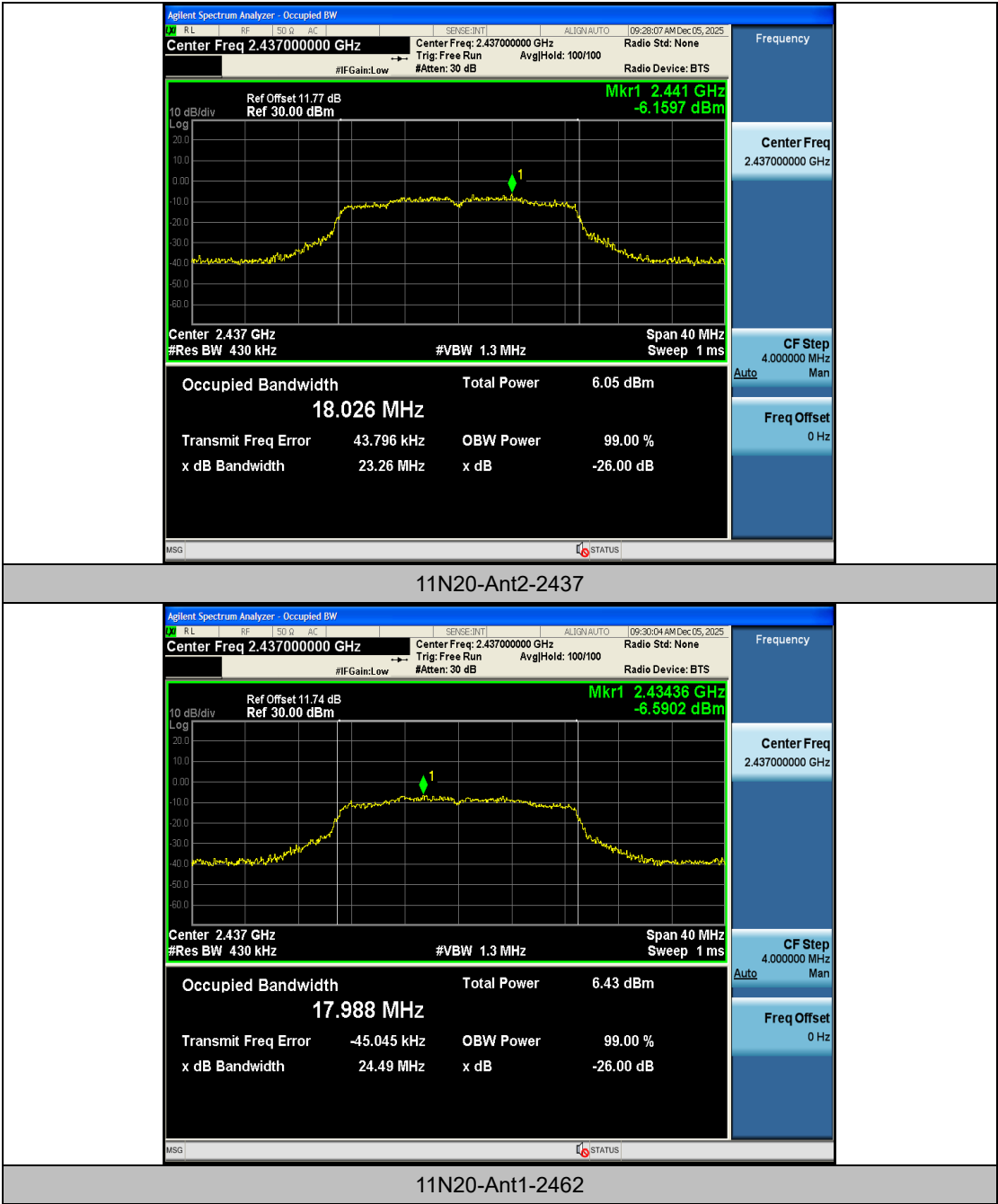
11G-Ant1-2412

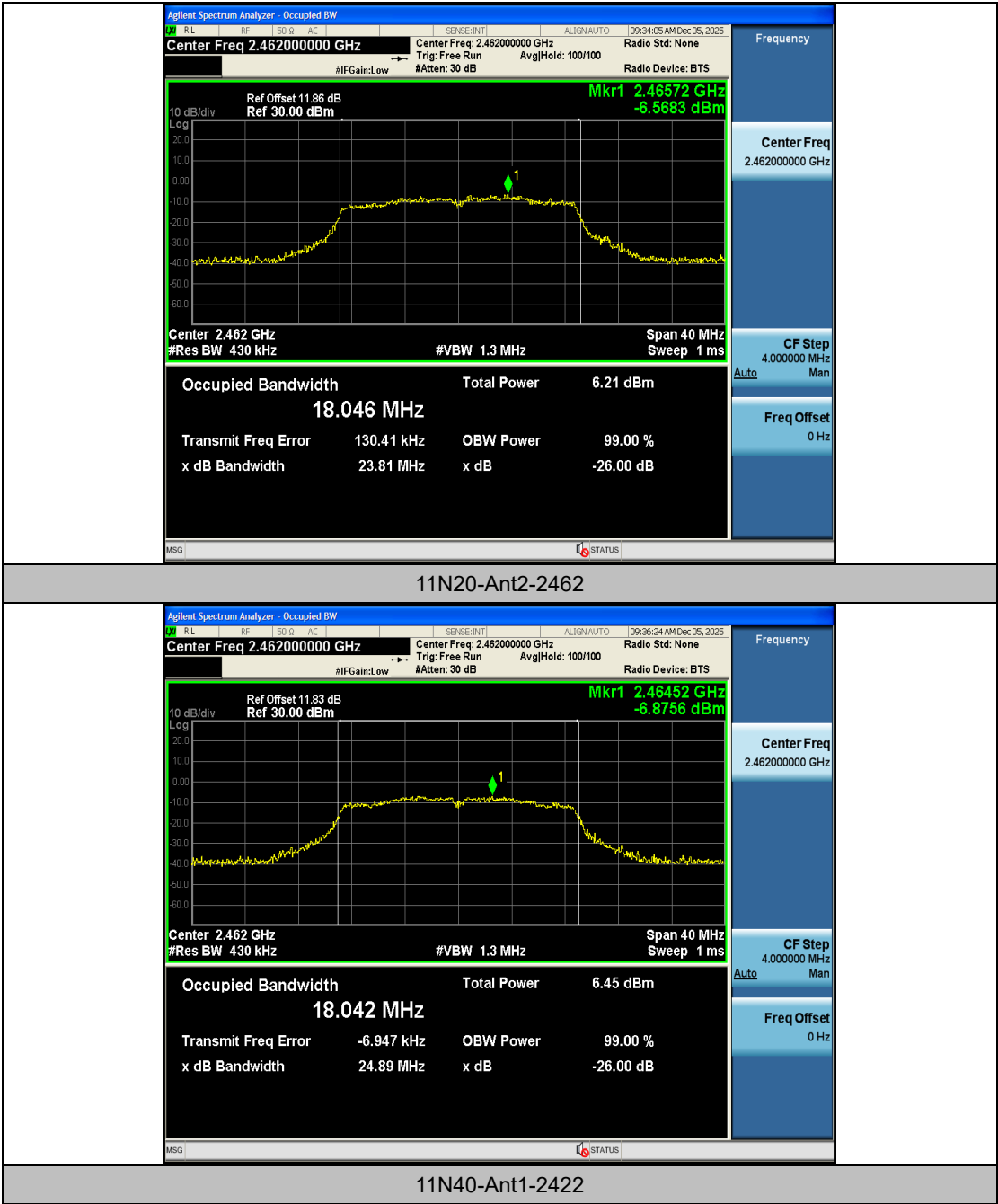


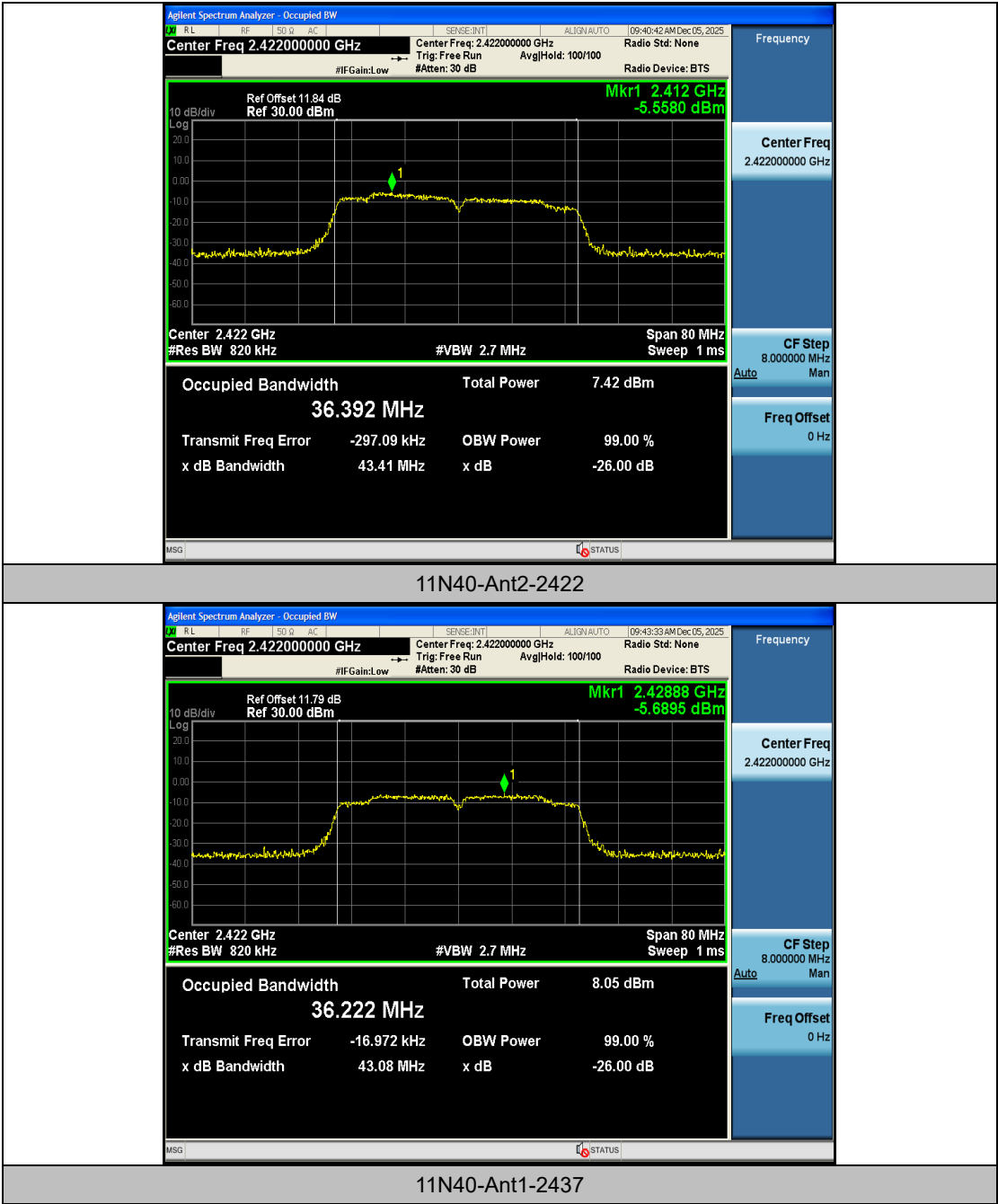


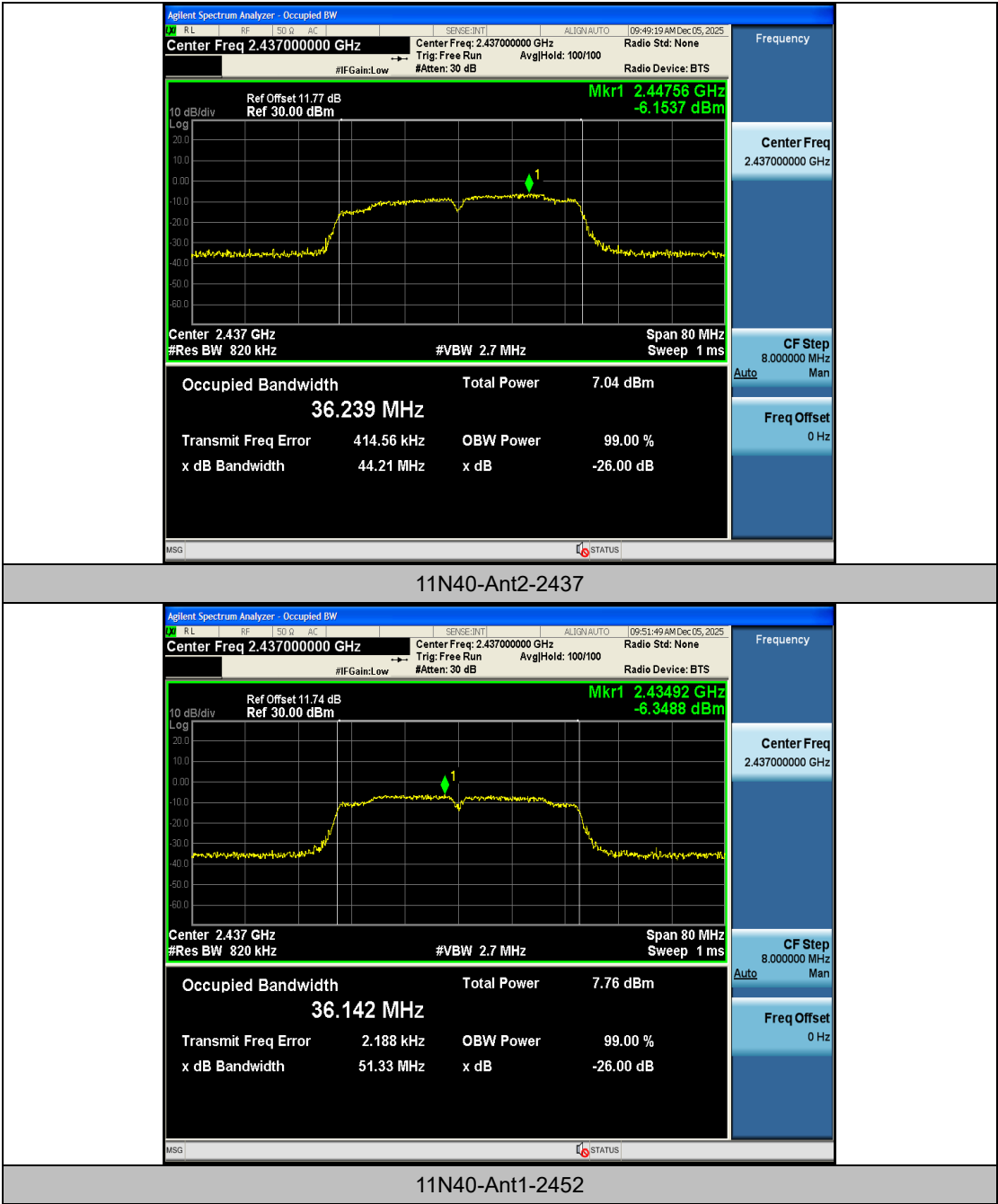


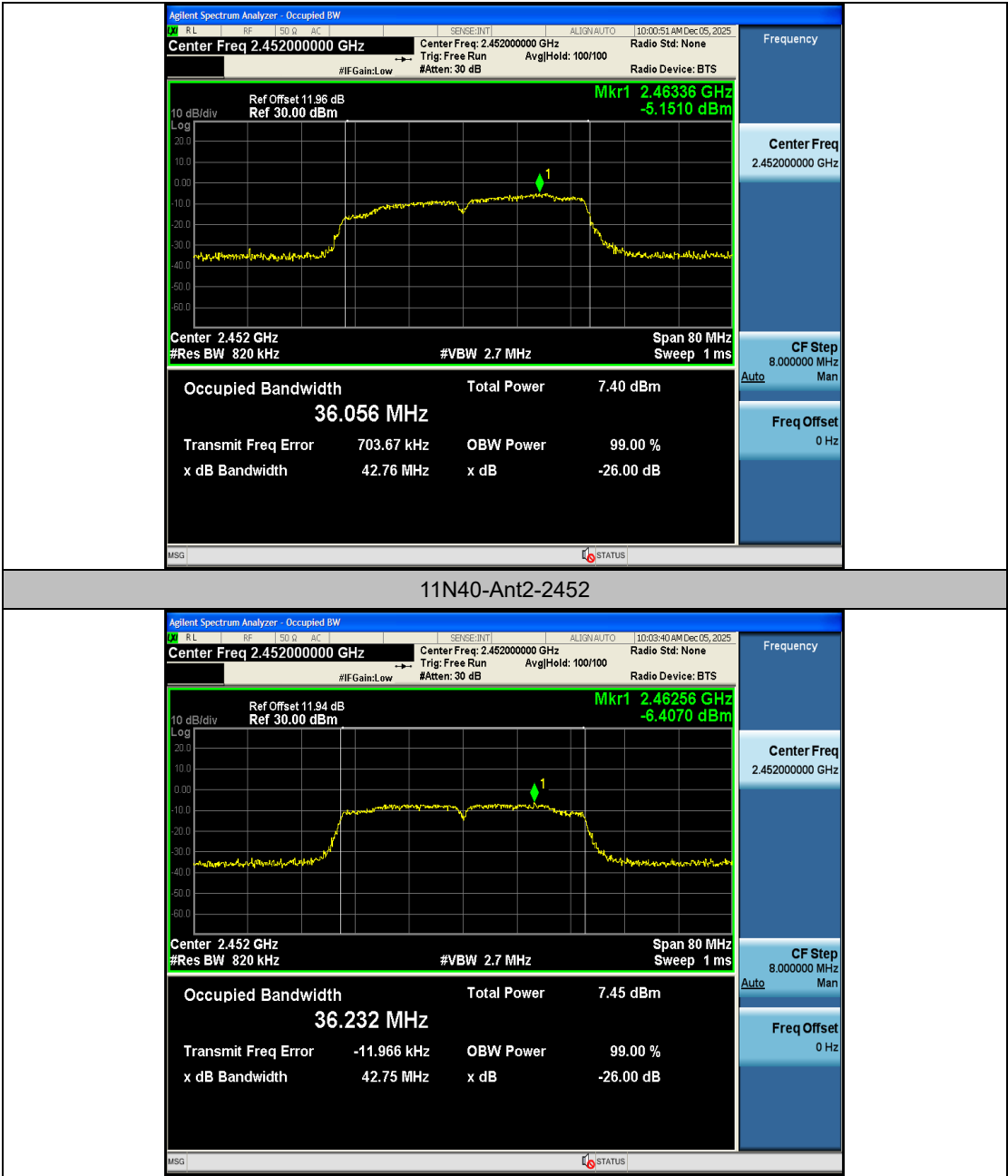












Appendix C: Maximum conducted output power

Test Result Peak

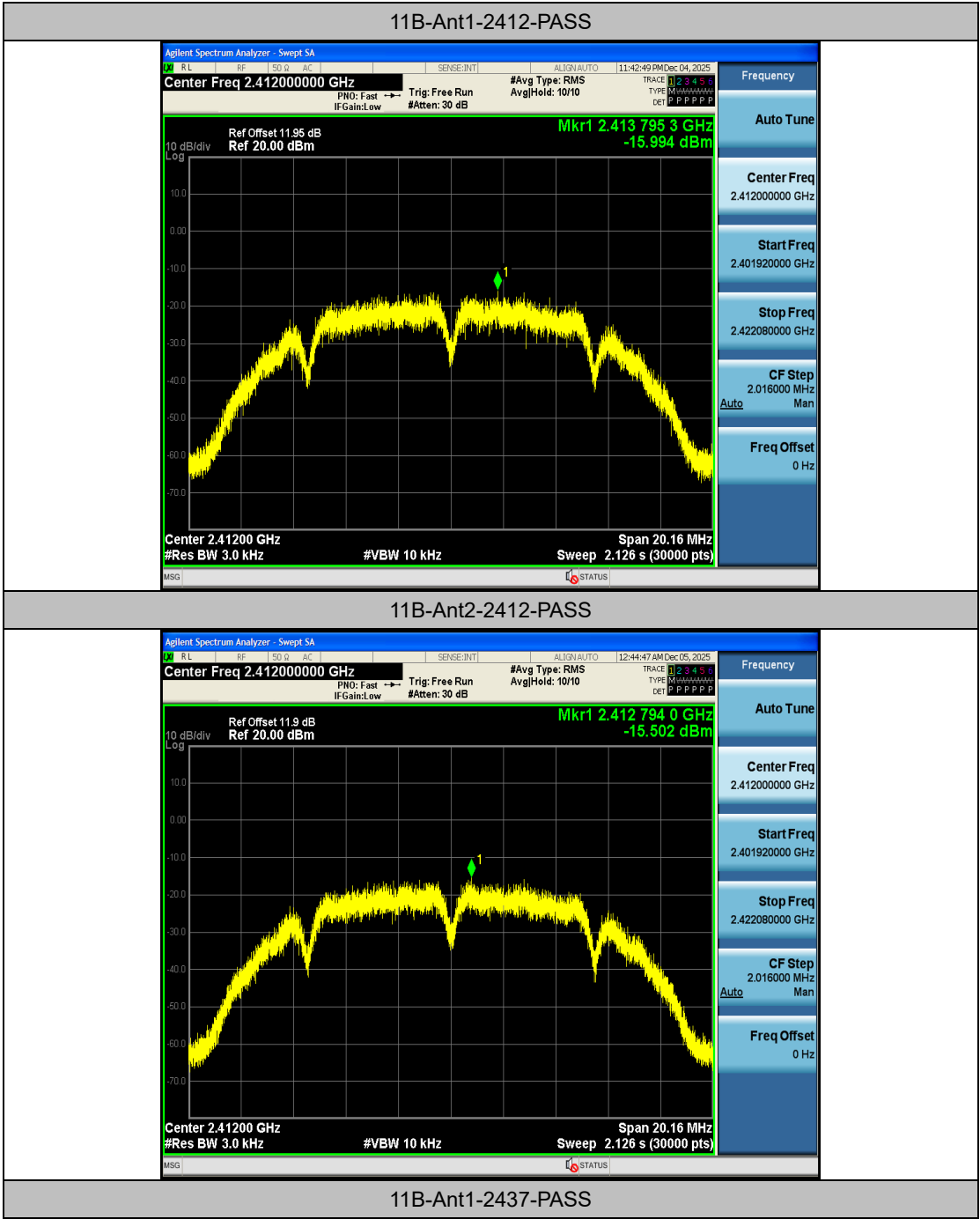
TestMode	Antenna	Frequency[MHz]	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	---	10.01	≤30.00	PASS
11B	Ant2	2412	---	10.70	≤30.00	PASS
11B	Ant1	2437	---	9.34	≤30.00	PASS
11B	Ant2	2437	---	8.06	≤30.00	PASS
11B	Ant1	2462	---	9.12	≤30.00	PASS
11B	Ant2	2462	---	8.10	≤30.00	PASS
11G	Ant1	2412	---	8.84	≤30.00	PASS
11G	Ant2	2412	---	8.31	≤30.00	PASS
11G	Ant1	2437	---	7.85	≤30.00	PASS
11G	Ant2	2437	---	7.63	≤30.00	PASS
11G	Ant1	2462	---	7.83	≤30.00	PASS
11G	Ant2	2462	---	9.06	≤30.00	PASS
11N20	Ant1	2412	---	7.39	≤30.00	PASS
11N20	Ant2	2412	---	7.44	≤30.00	PASS
11N20MIMO	total	2412	---	10.43	≤30.00	PASS
11N20	Ant1	2437	---	6.69	≤30.00	PASS
11N20	Ant2	2437	---	6.98	≤30.00	PASS
11N20MIMO	total	2437	---	9.85	≤30.00	PASS
11N20	Ant1	2462	---	6.70	≤30.00	PASS
11N20	Ant2	2462	---	6.97	≤30.00	PASS
11N20MIMO	total	2462	---	9.85	≤30.00	PASS
11N40	Ant1	2422	---	7.21	≤30.00	PASS
11N40	Ant2	2422	---	8.12	≤30.00	PASS
11N40MIMO	total	2422	---	10.70	≤30.00	PASS
11N40	Ant1	2437	---	6.98	≤30.00	PASS
11N40	Ant2	2437	---	8.02	≤30.00	PASS
11N40MIMO	total	2437	---	10.54	≤30.00	PASS
11N40	Ant1	2452	---	7.30	≤30.00	PASS
11N40	Ant2	2452	---	7.61	≤30.00	PASS
11N40MIMO	total	2452	---	10.47	≤30.00	PASS

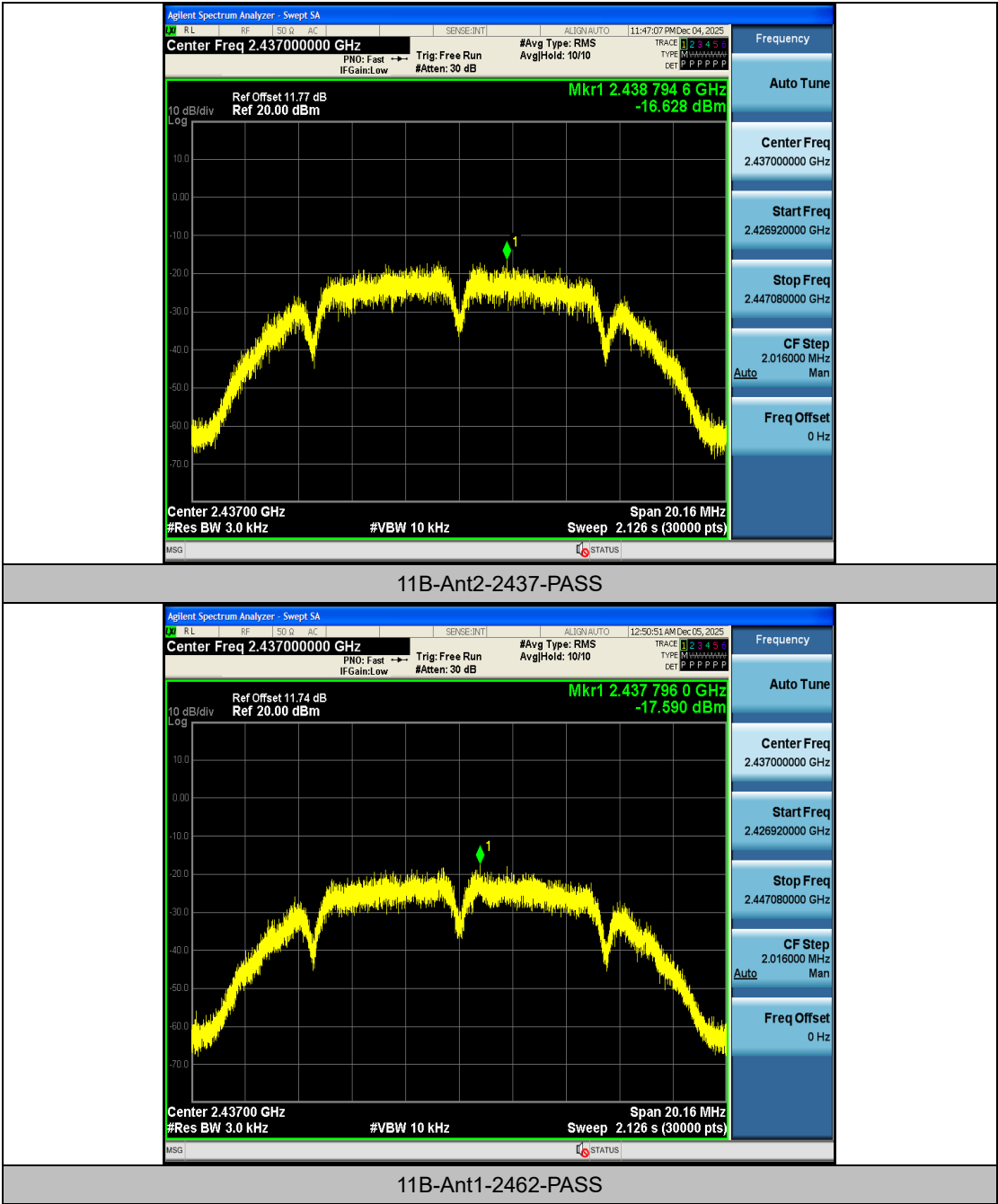
Appendix D: Maximum power spectral density

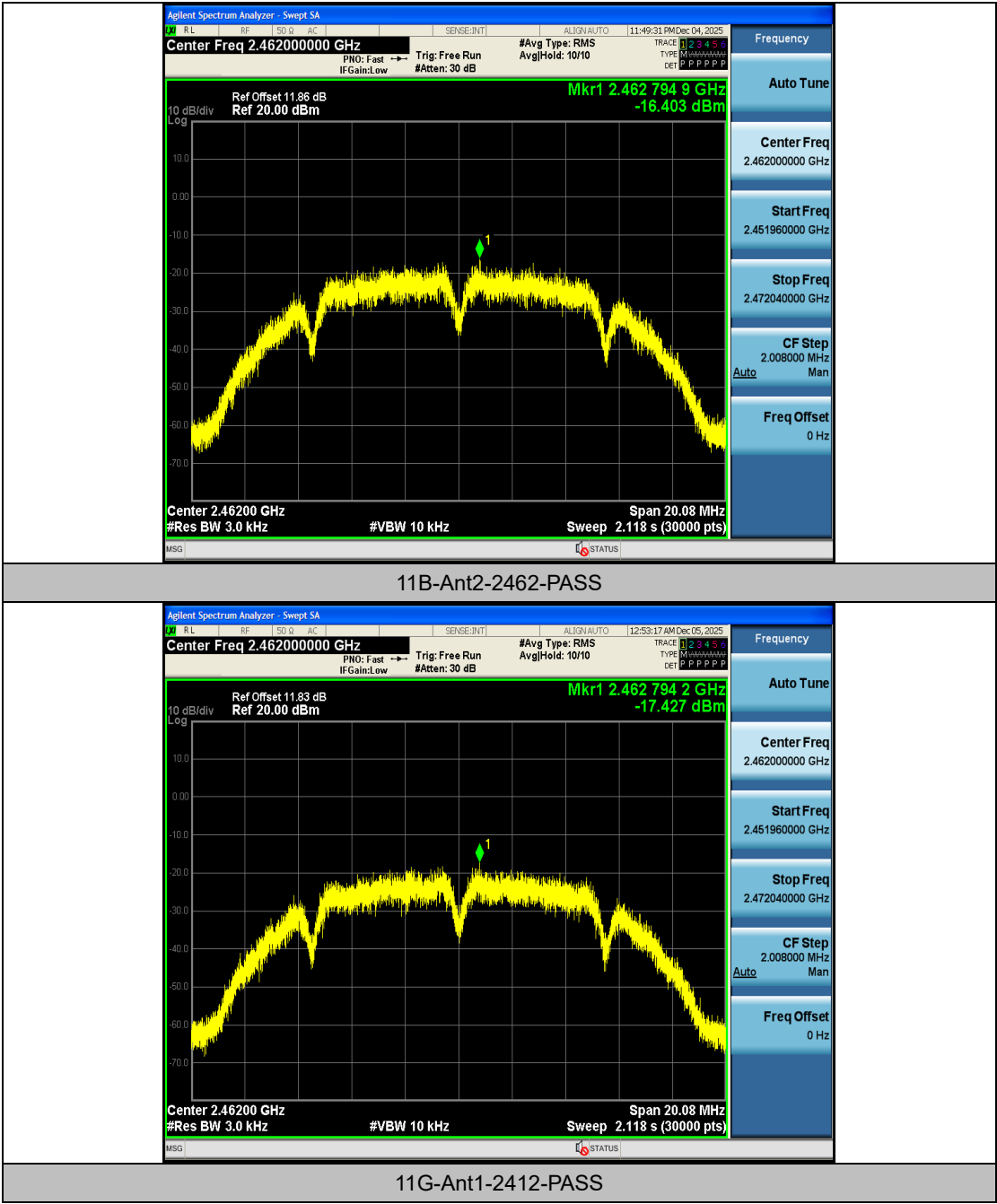
Test Result

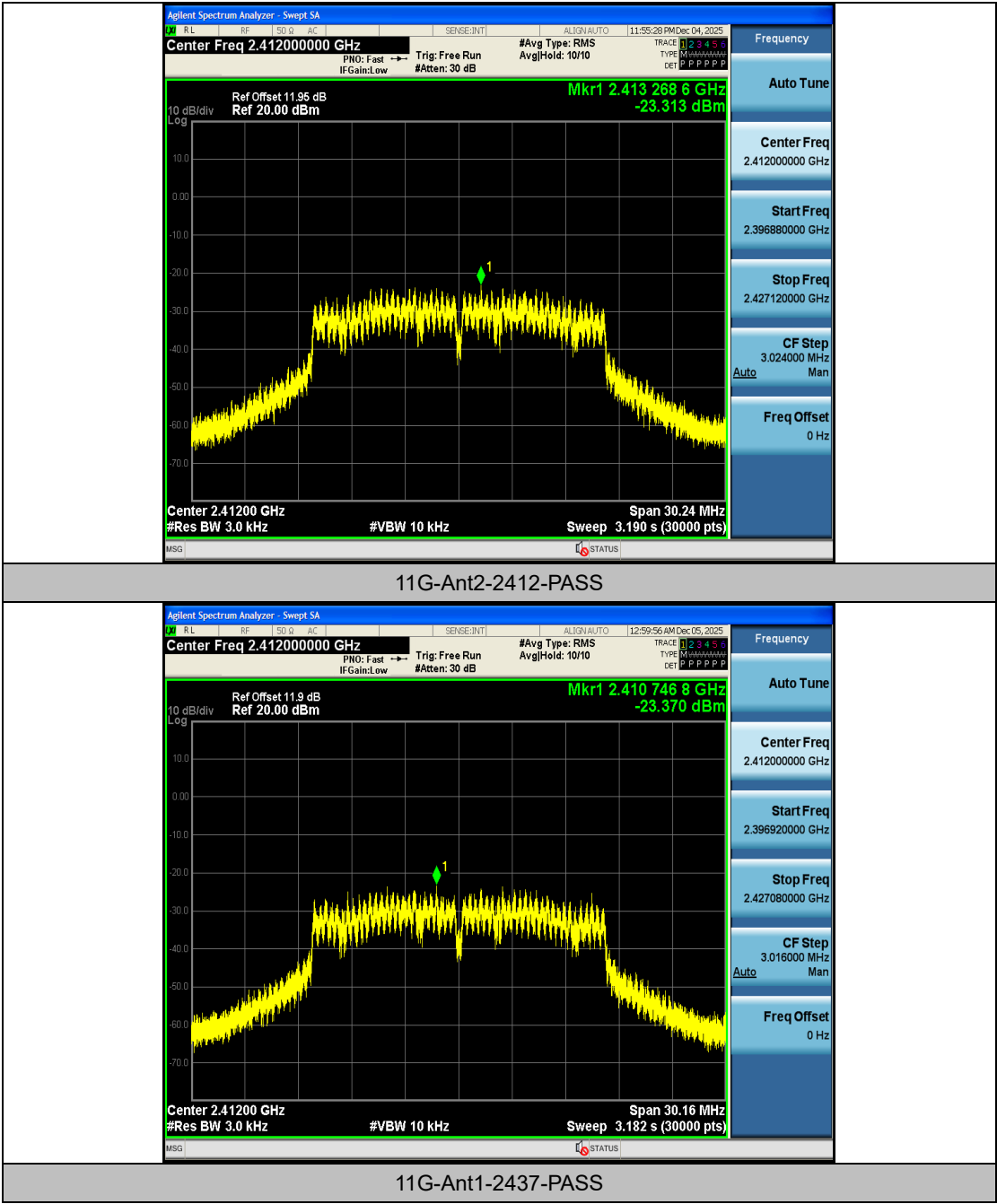
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-15.99	≤8.00	PASS
11B	Ant2	2412	-15.5	≤8.00	PASS
11B	Ant1	2437	-16.63	≤8.00	PASS
11B	Ant2	2437	-17.59	≤8.00	PASS
11B	Ant1	2462	-16.4	≤8.00	PASS
11B	Ant2	2462	-17.43	≤8.00	PASS
11G	Ant1	2412	-23.31	≤8.00	PASS
11G	Ant2	2412	-23.37	≤8.00	PASS
11G	Ant1	2437	-23.84	≤8.00	PASS
11G	Ant2	2437	-23.91	≤8.00	PASS
11G	Ant1	2462	-23.4	≤8.00	PASS
11G	Ant2	2462	-22.78	≤8.00	PASS
11N20	Ant1	2412	-24.71	≤8.00	PASS
11N20	Ant2	2412	-22.26	≤8.00	PASS
11N20MIMO	total	2412	-20.30	≤8.00	PASS
11N20	Ant1	2437	-24.66	≤8.00	PASS
11N20	Ant2	2437	-24.29	≤8.00	PASS
11N20MIMO	total	2437	-21.46	≤8.00	PASS
11N20	Ant1	2462	-23.97	≤8.00	PASS
11N20	Ant2	2462	-24.52	≤8.00	PASS
11N20MIMO	total	2462	-21.23	≤8.00	PASS
11N40	Ant1	2422	-25.95	≤8.00	PASS
11N40	Ant2	2422	-26.54	≤8.00	PASS
11N40MIMO	total	2422	-23.22	≤8.00	PASS
11N40	Ant1	2437	-26.06	≤8.00	PASS
11N40	Ant2	2437	-26.09	≤8.00	PASS
11N40MIMO	total	2437	-23.06	≤8.00	PASS
11N40	Ant1	2452	-24.72	≤8.00	PASS
11N40	Ant2	2452	-27.18	≤8.00	PASS
11N40MIMO	total	2452	-22.77	≤8.00	PASS

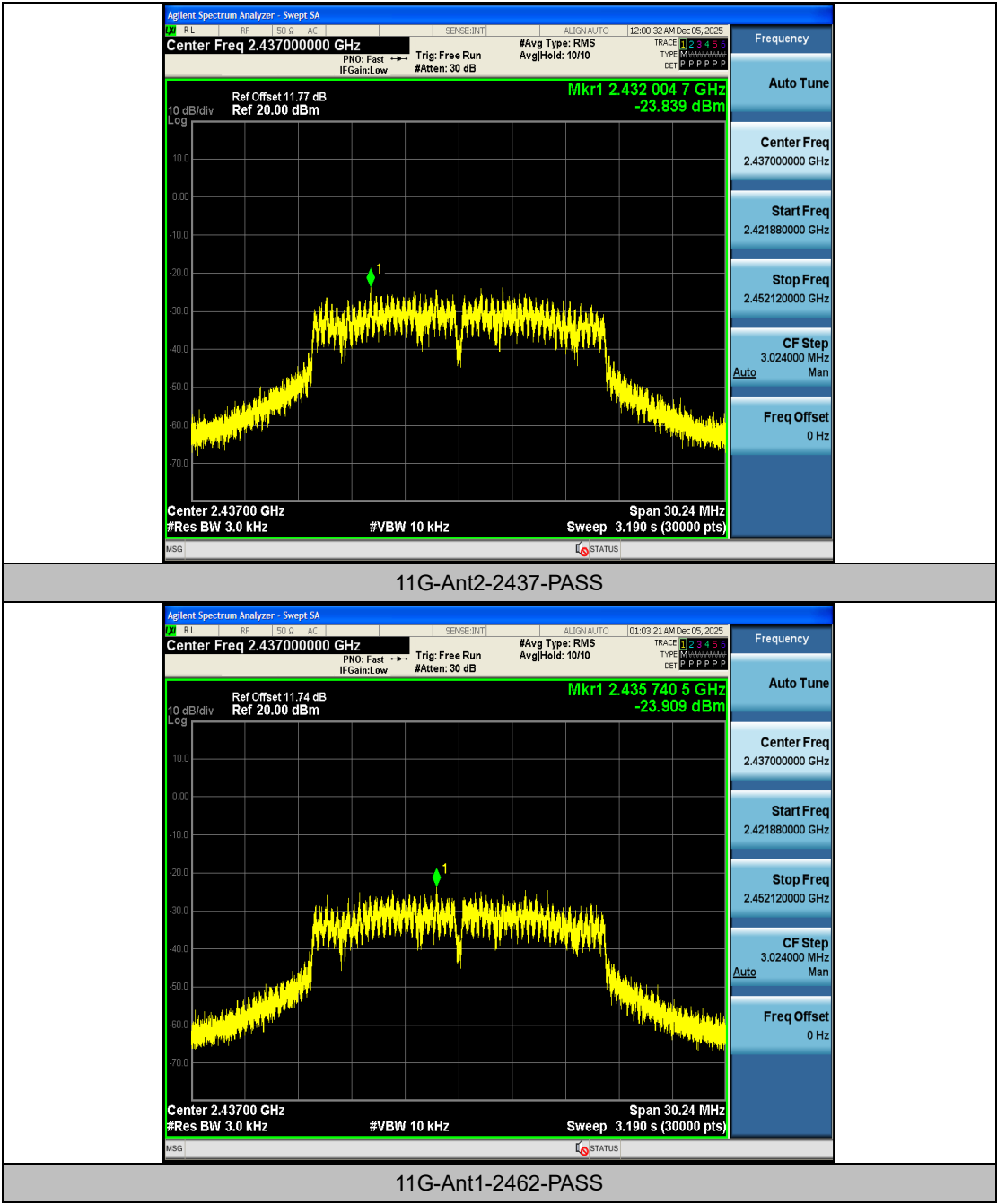
Test Graphs

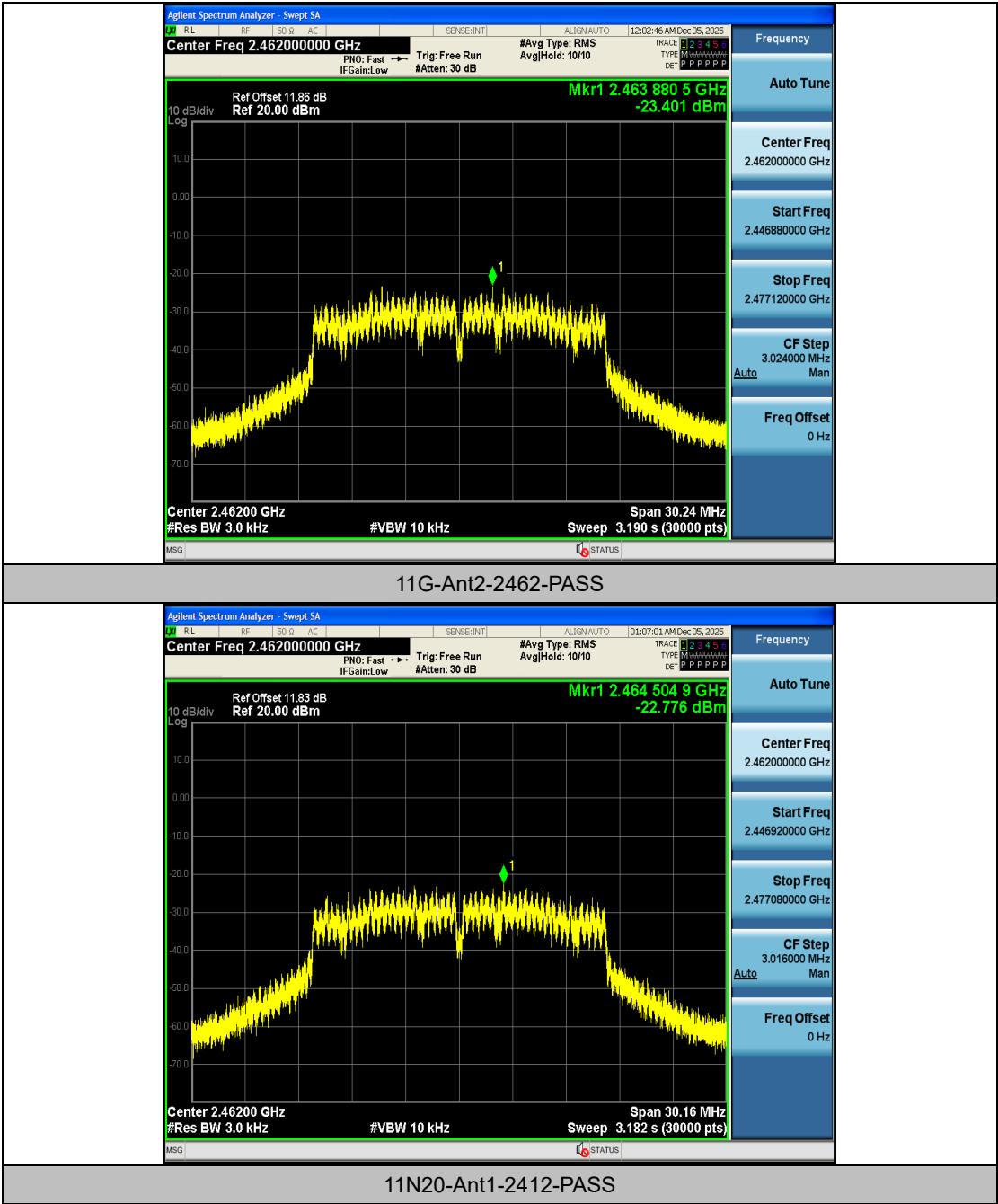


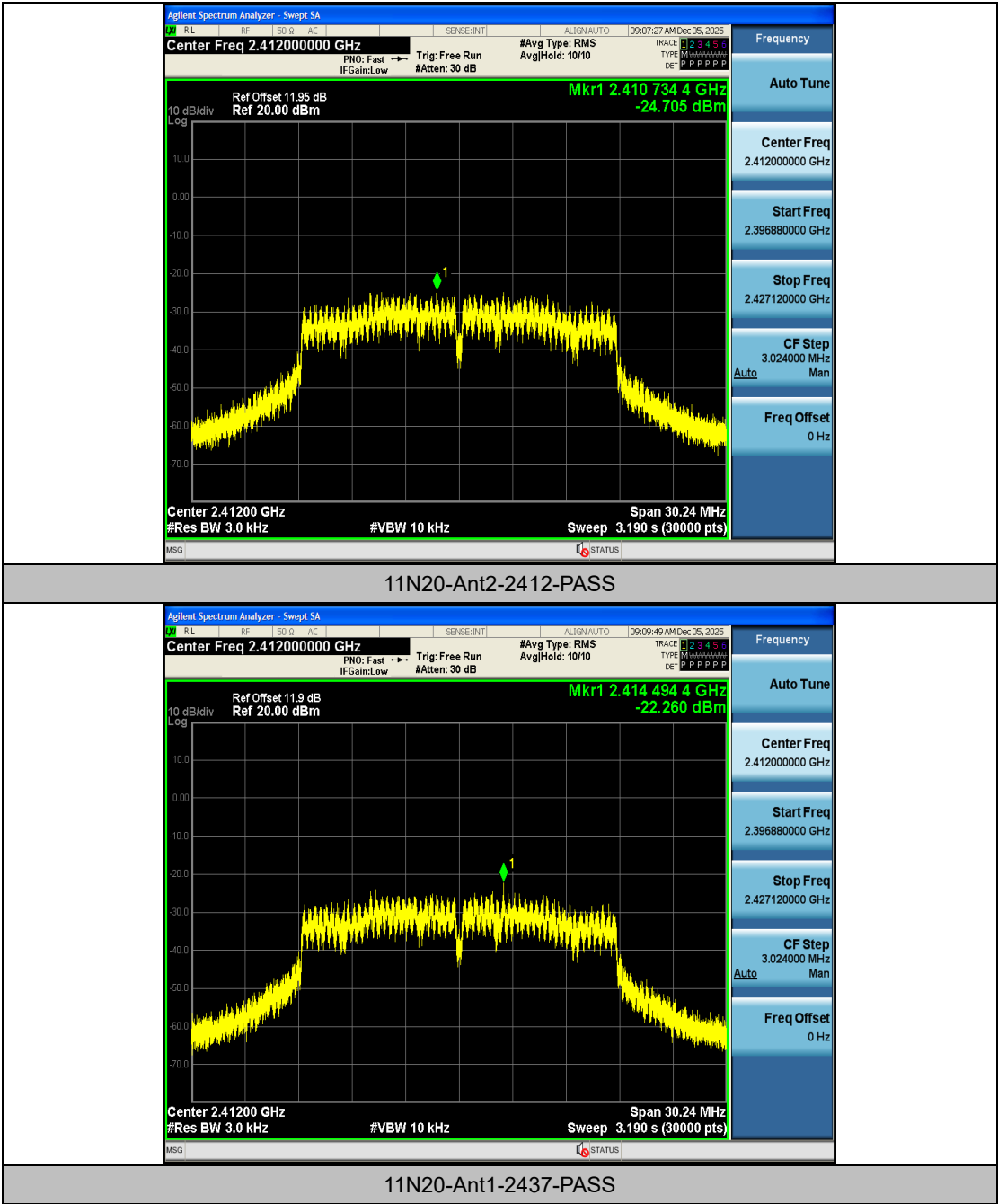


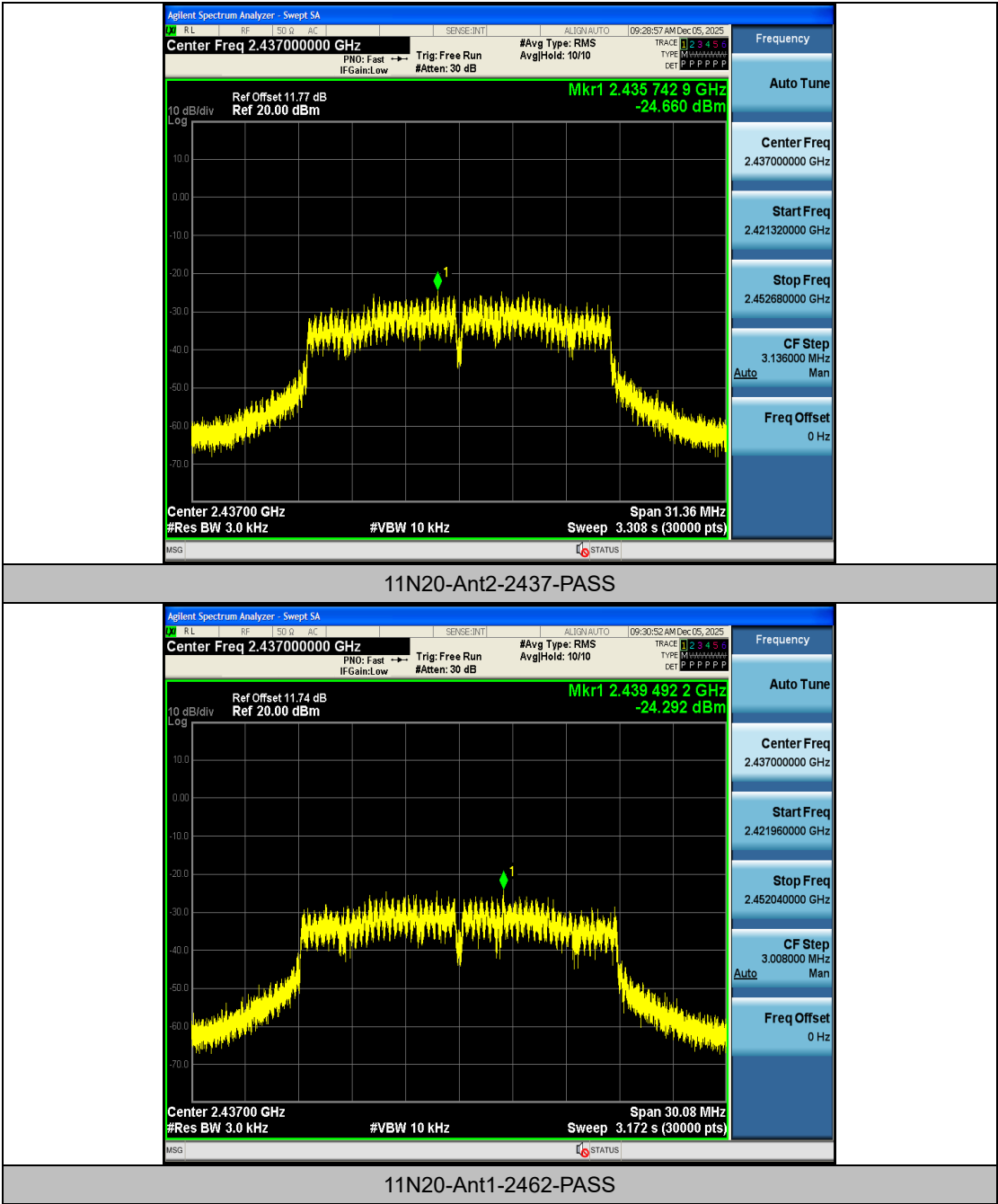


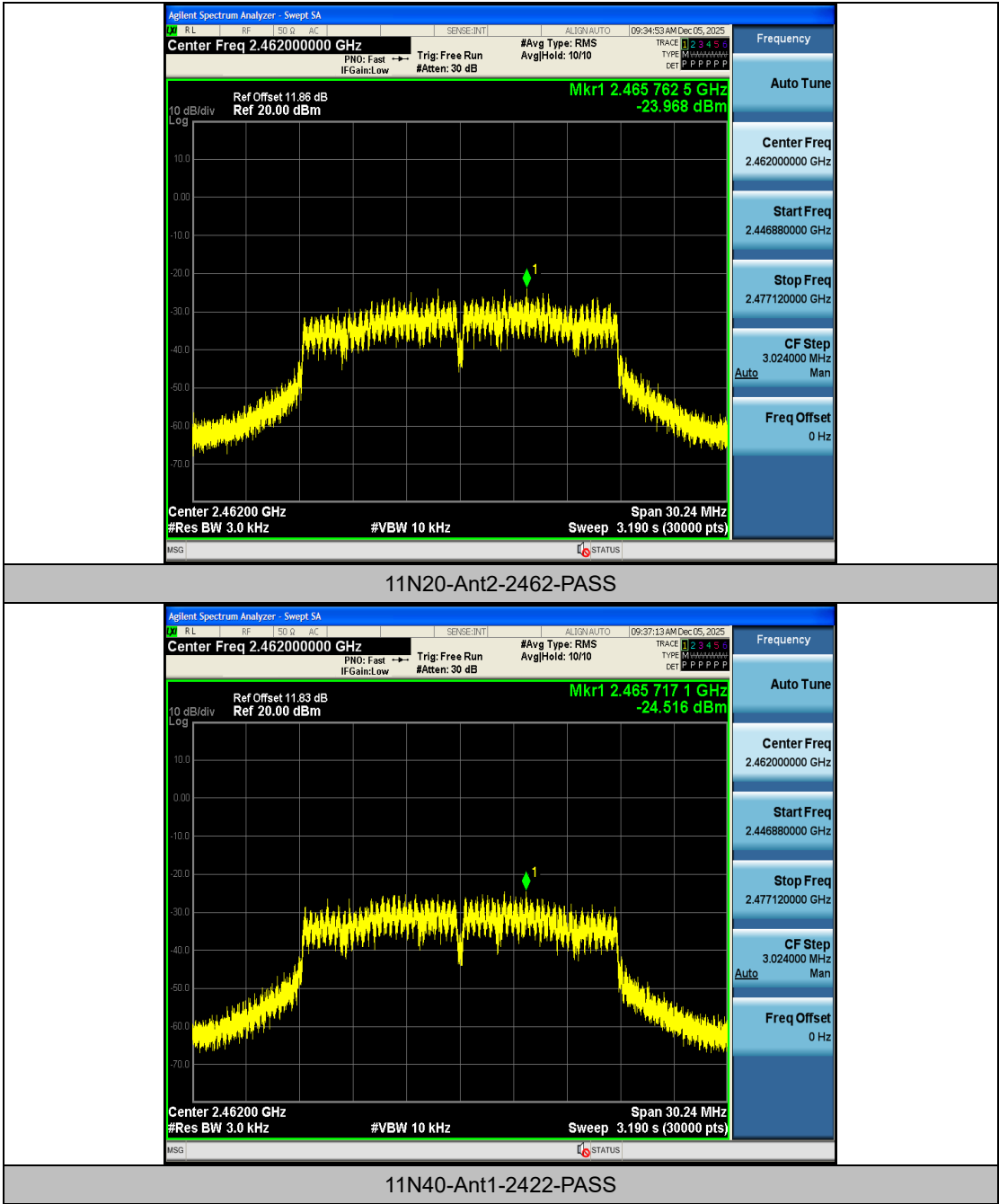


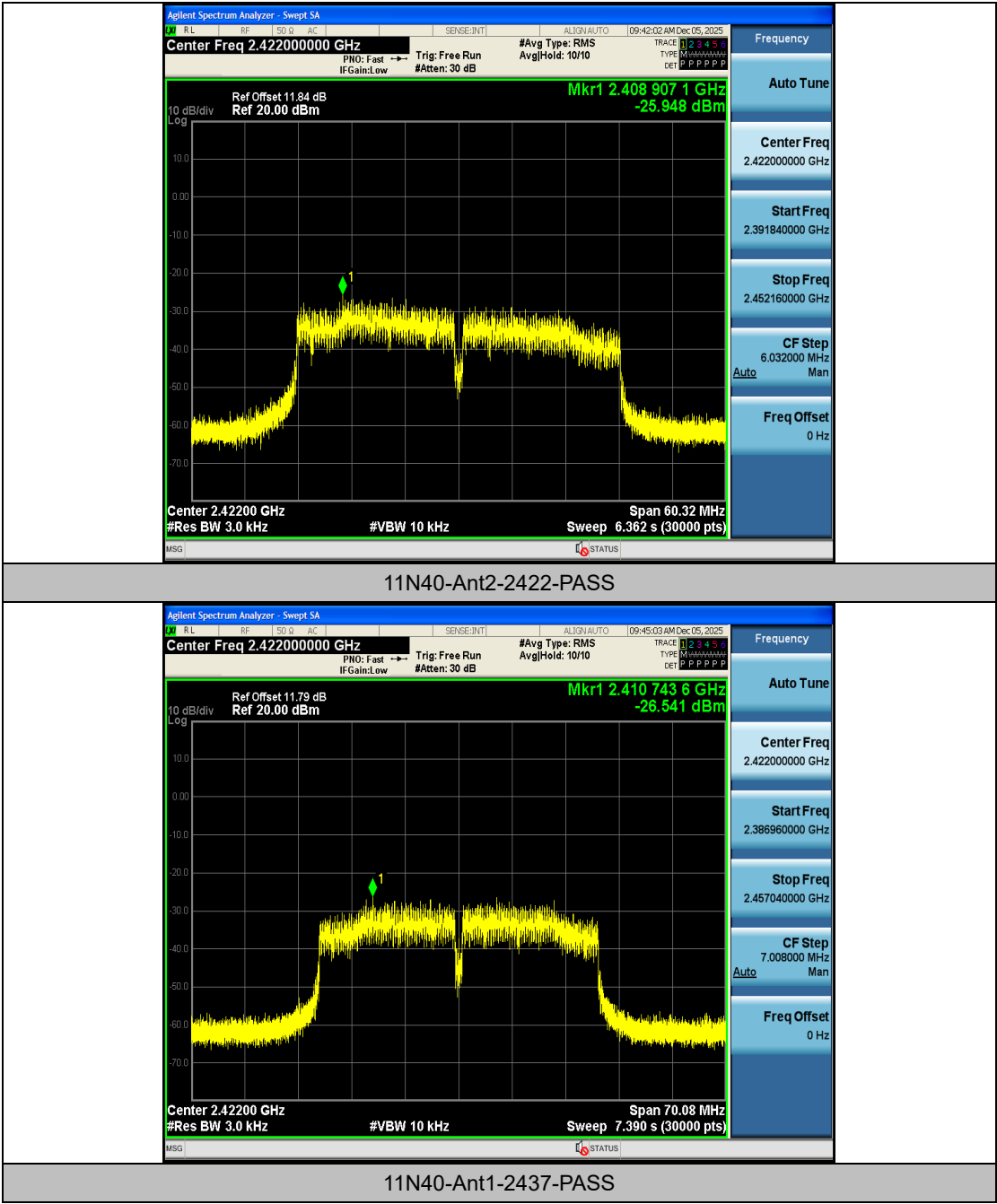


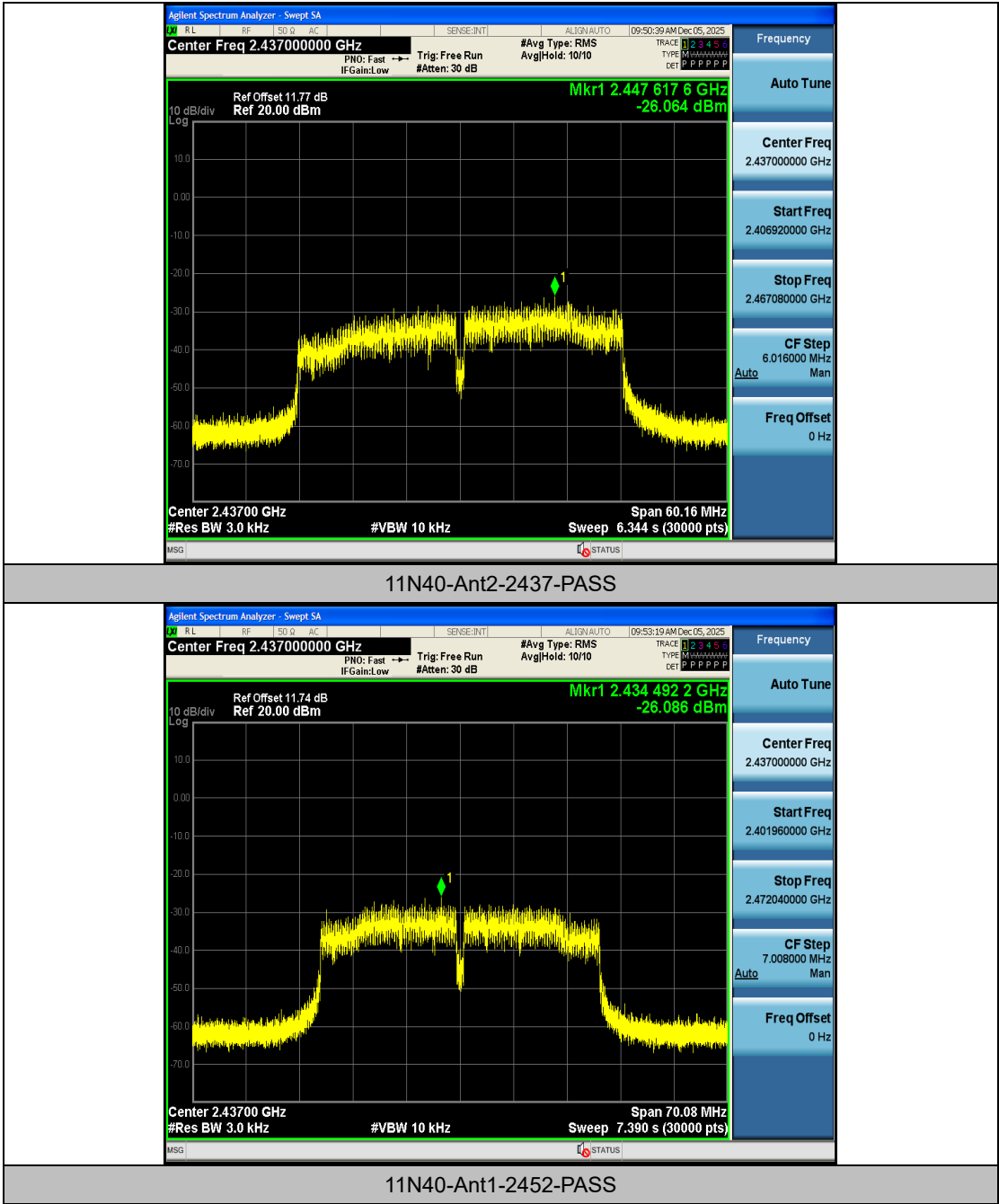


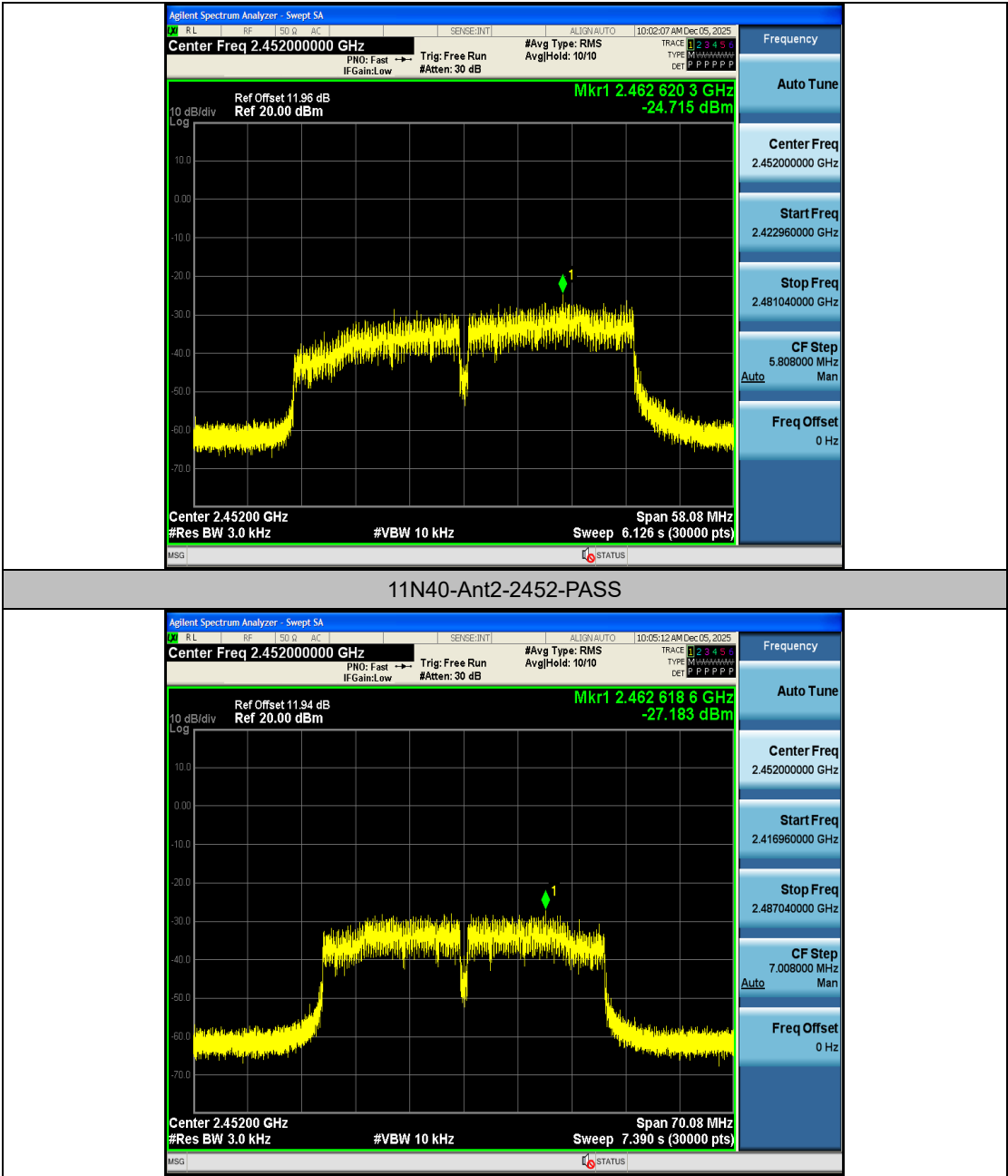










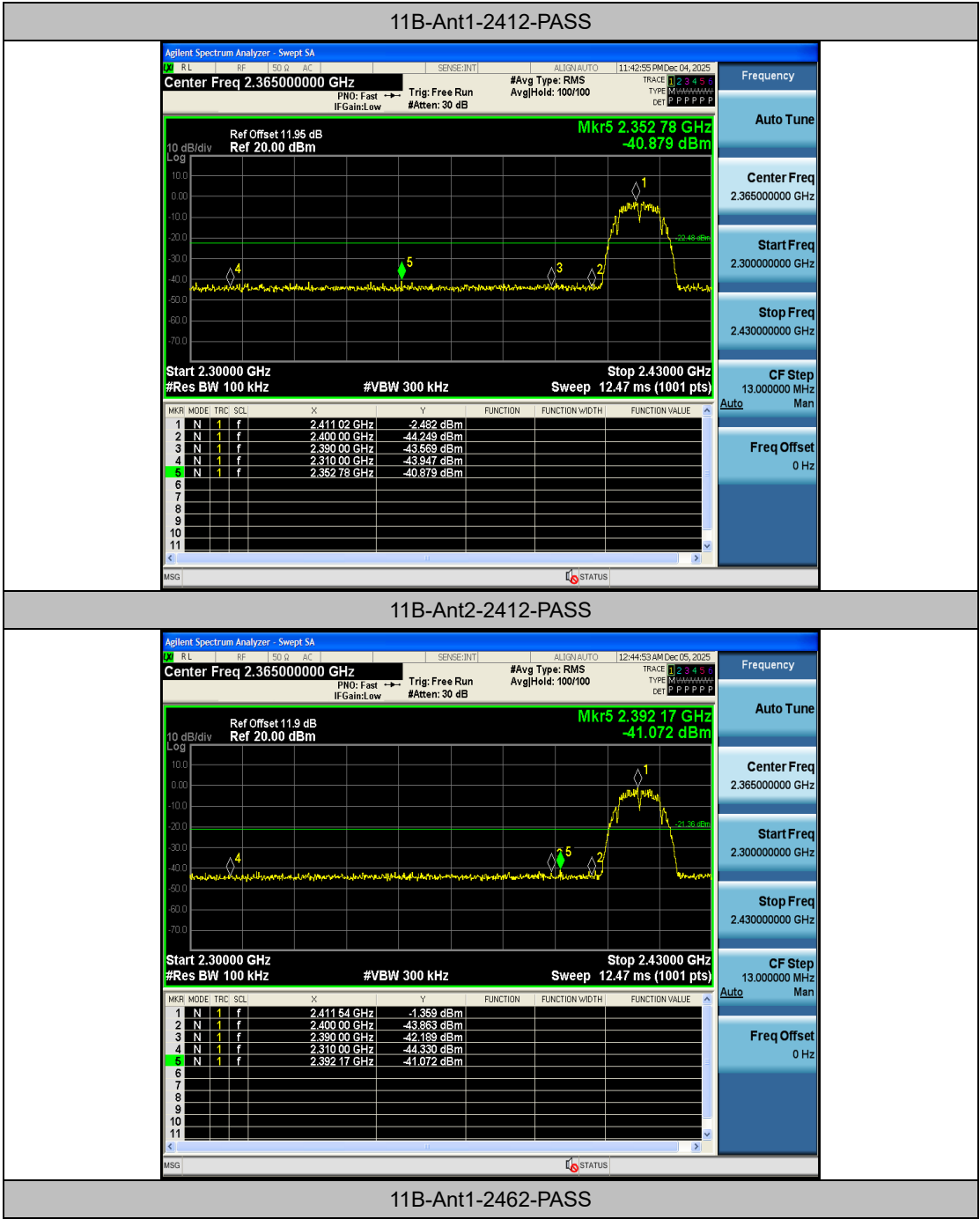


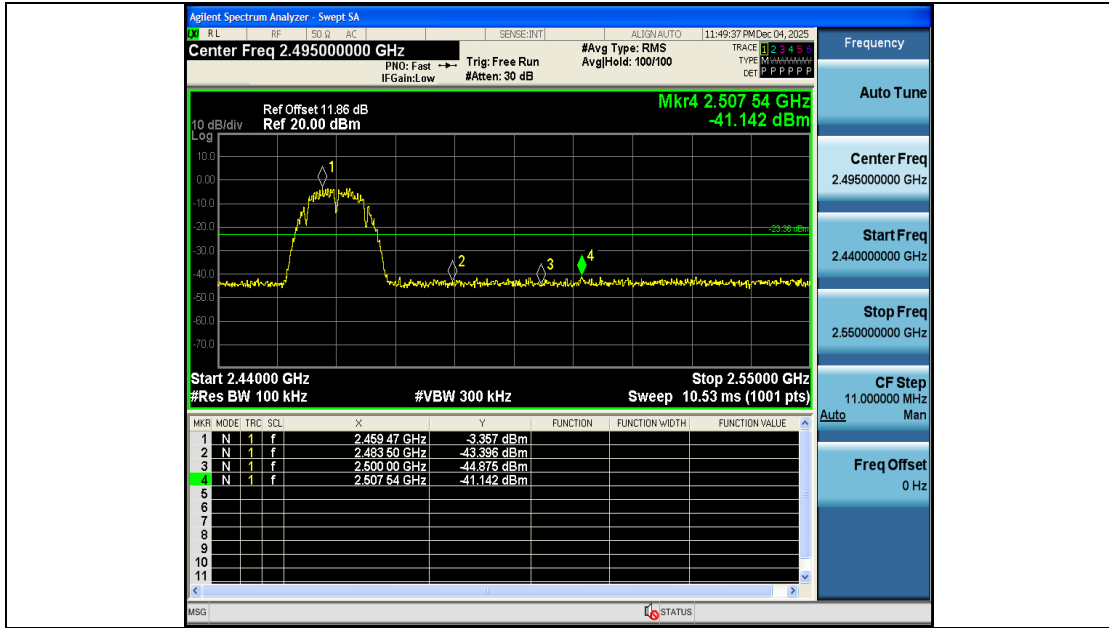
Appendix F: Band edge measurements

Test Result

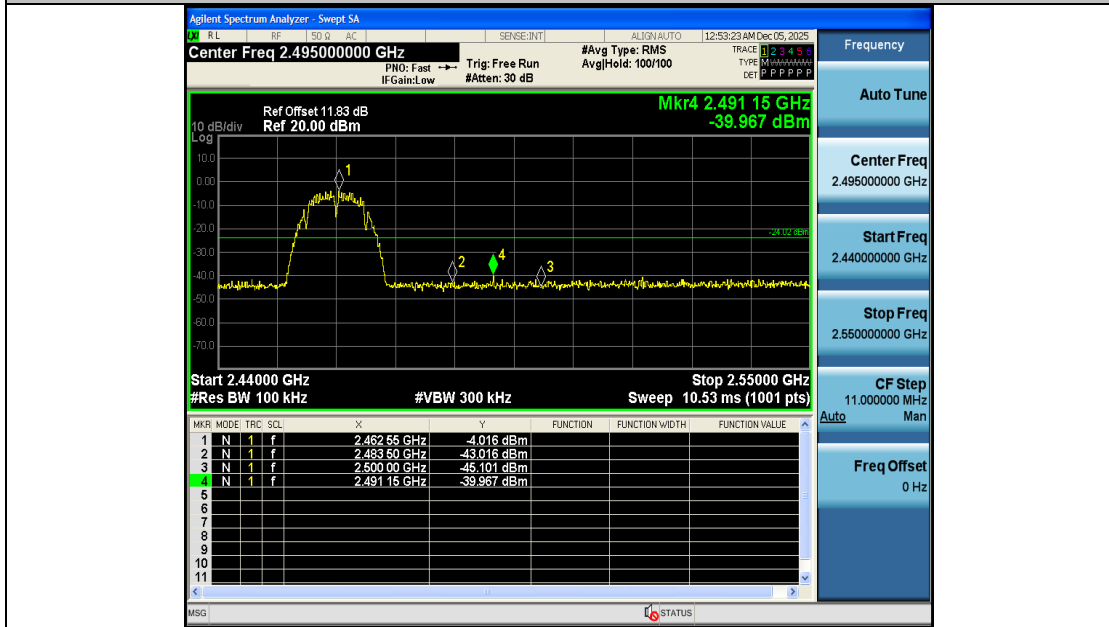
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-2.48	-40.88	≤-22.48	PASS
11B	Ant2	Low	2412	-1.36	-41.07	≤-21.36	PASS
11B	Ant1	High	2462	-3.36	-41.14	≤-23.36	PASS
11B	Ant2	High	2462	-4.02	-39.97	≤-24.02	PASS
11G	Ant1	Low	2412	-7.59	-37.57	≤-27.59	PASS
11G	Ant2	Low	2412	-8.27	-35.74	≤-28.27	PASS
11G	Ant1	High	2462	-8.53	-40.55	≤-28.53	PASS
11G	Ant2	High	2462	-7.18	-40.83	≤-27.18	PASS
11N20	Ant1	Low	2412	-9.07	-37.58	≤-29.07	PASS
11N20	Ant2	Low	2412	-8.94	-36.41	≤-28.94	PASS
11N20	Ant1	High	2462	-8.95	-41.73	≤-28.95	PASS
11N20	Ant2	High	2462	-9.22	-41.24	≤-29.22	PASS
11N40	Ant1	Low	2422	-11.88	-39.86	≤-31.88	PASS
11N40	Ant2	Low	2422	-11.74	-41.49	≤-31.74	PASS
11N40	Ant1	High	2452	-10.55	-41.1	≤-30.55	PASS
11N40	Ant2	High	2452	-12.58	-40.81	≤-32.58	PASS

Test Graphs

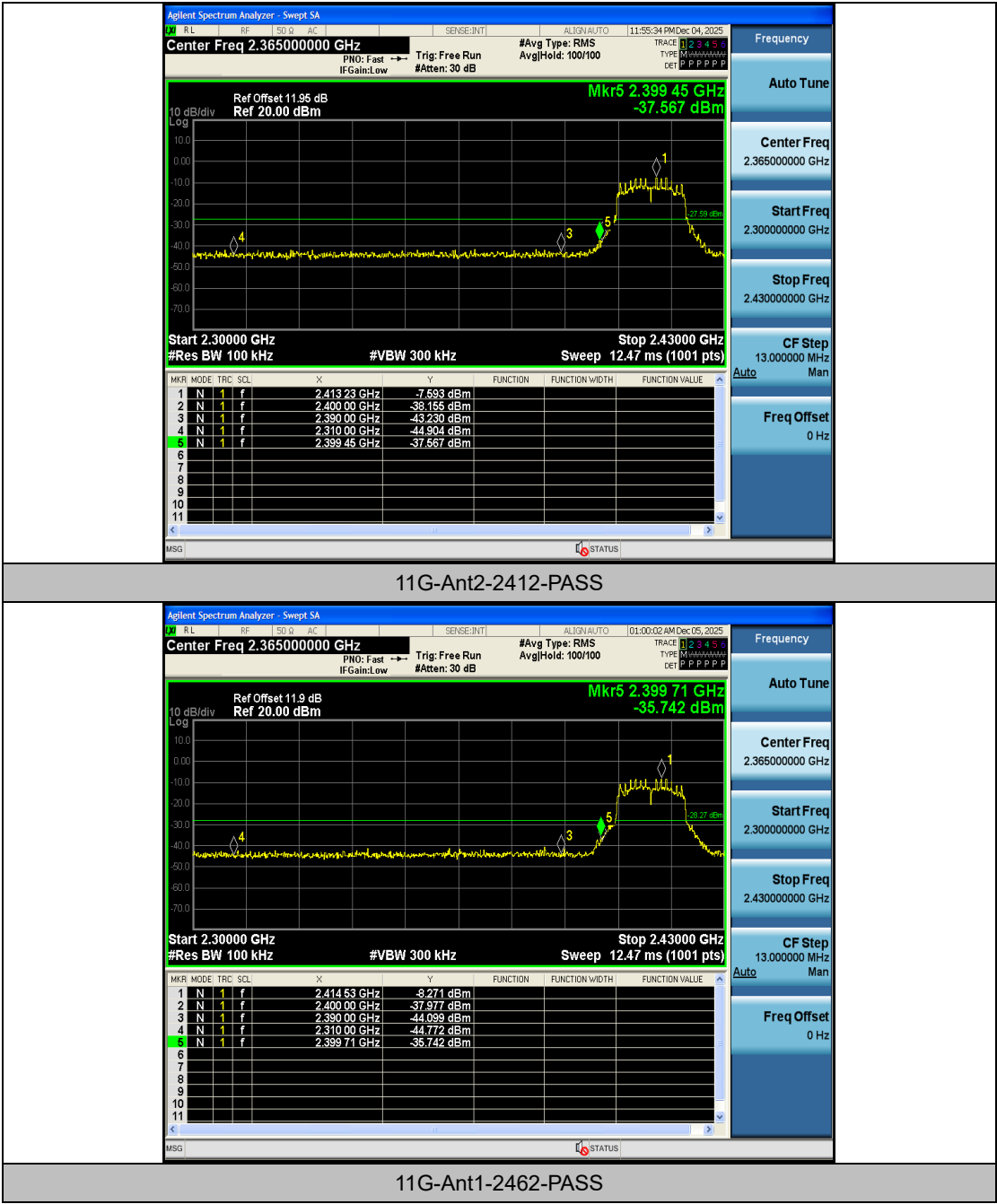


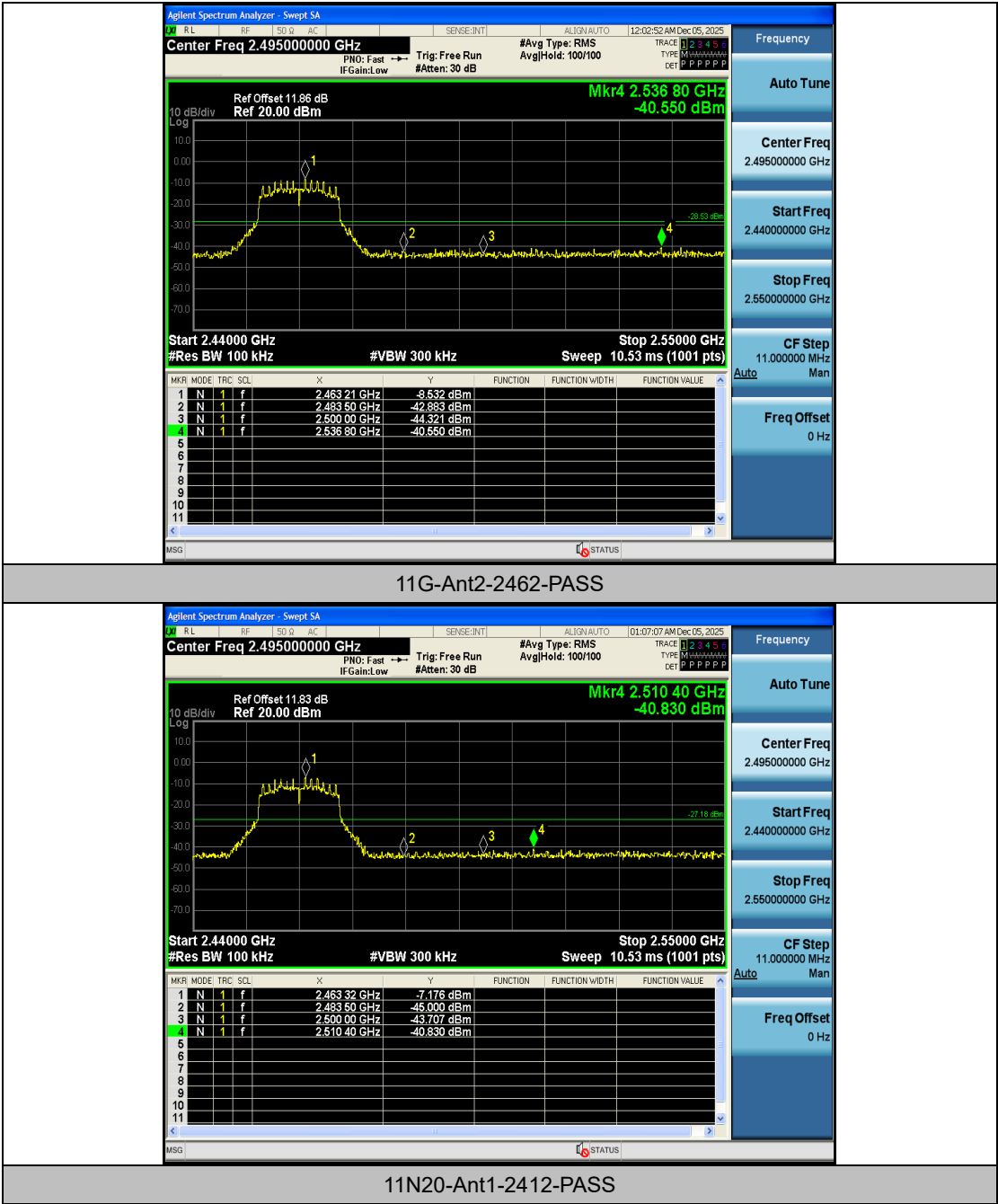


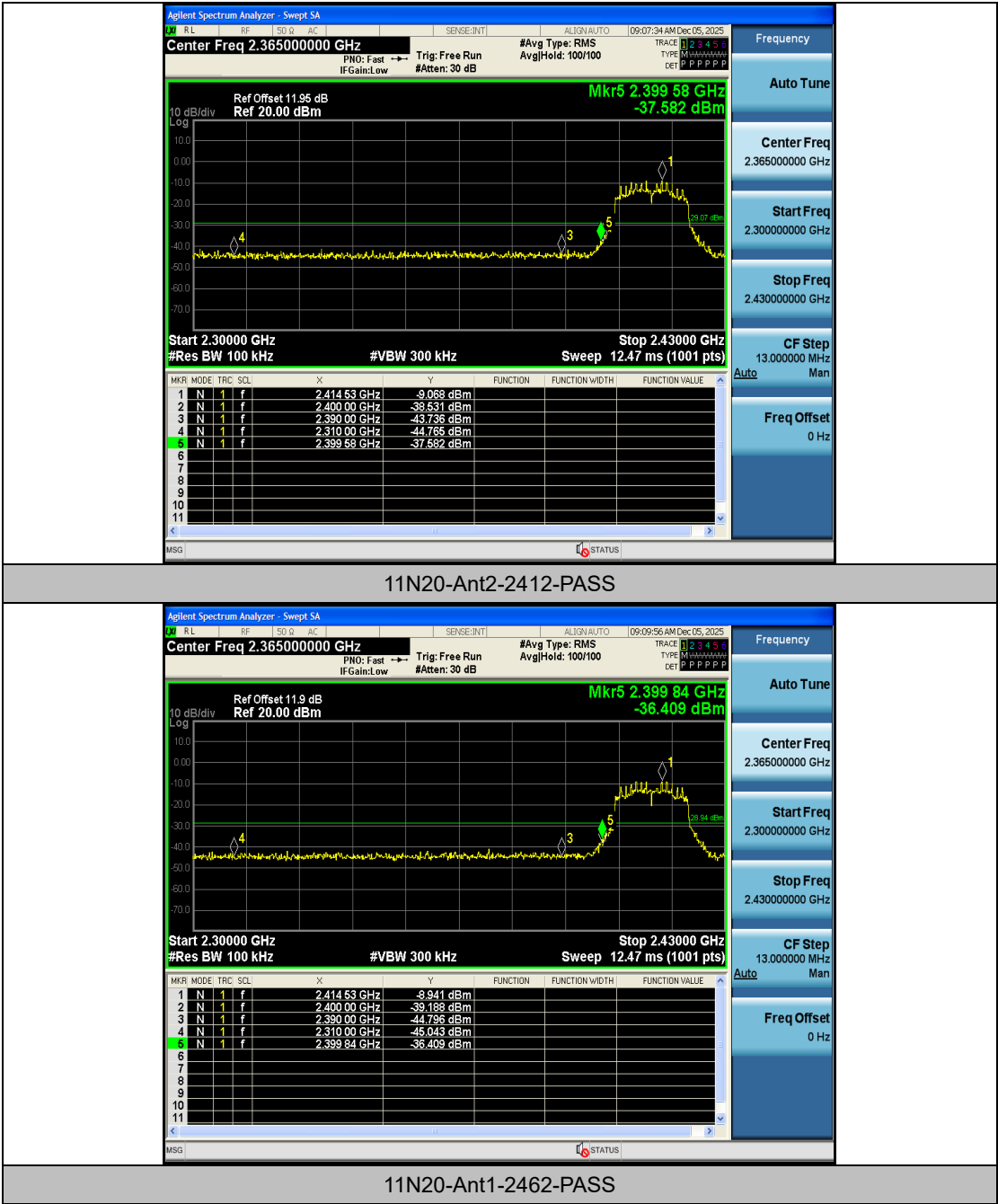
11B-Ant2-2462-PASS

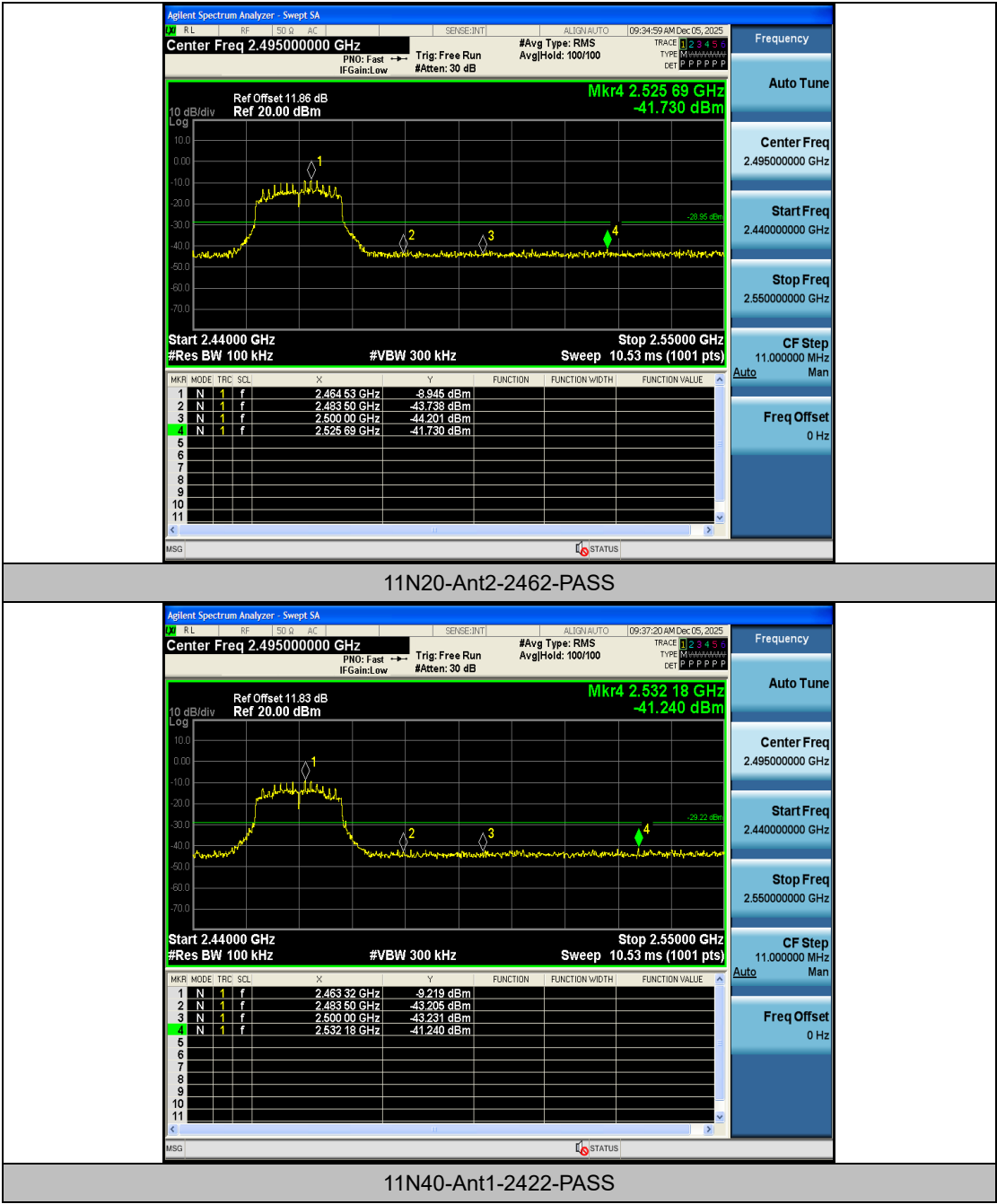


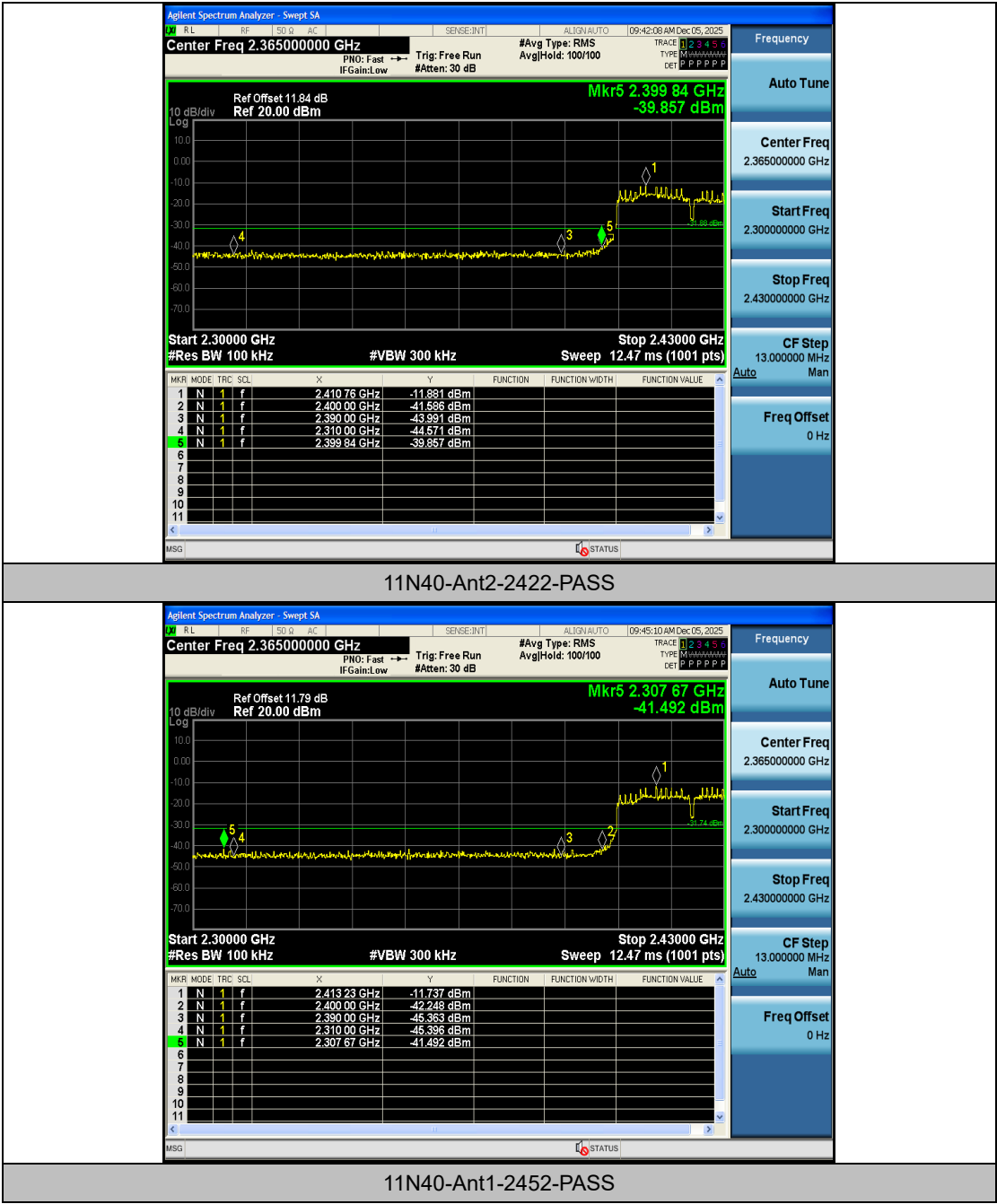
11G-Ant1-2412-PASS

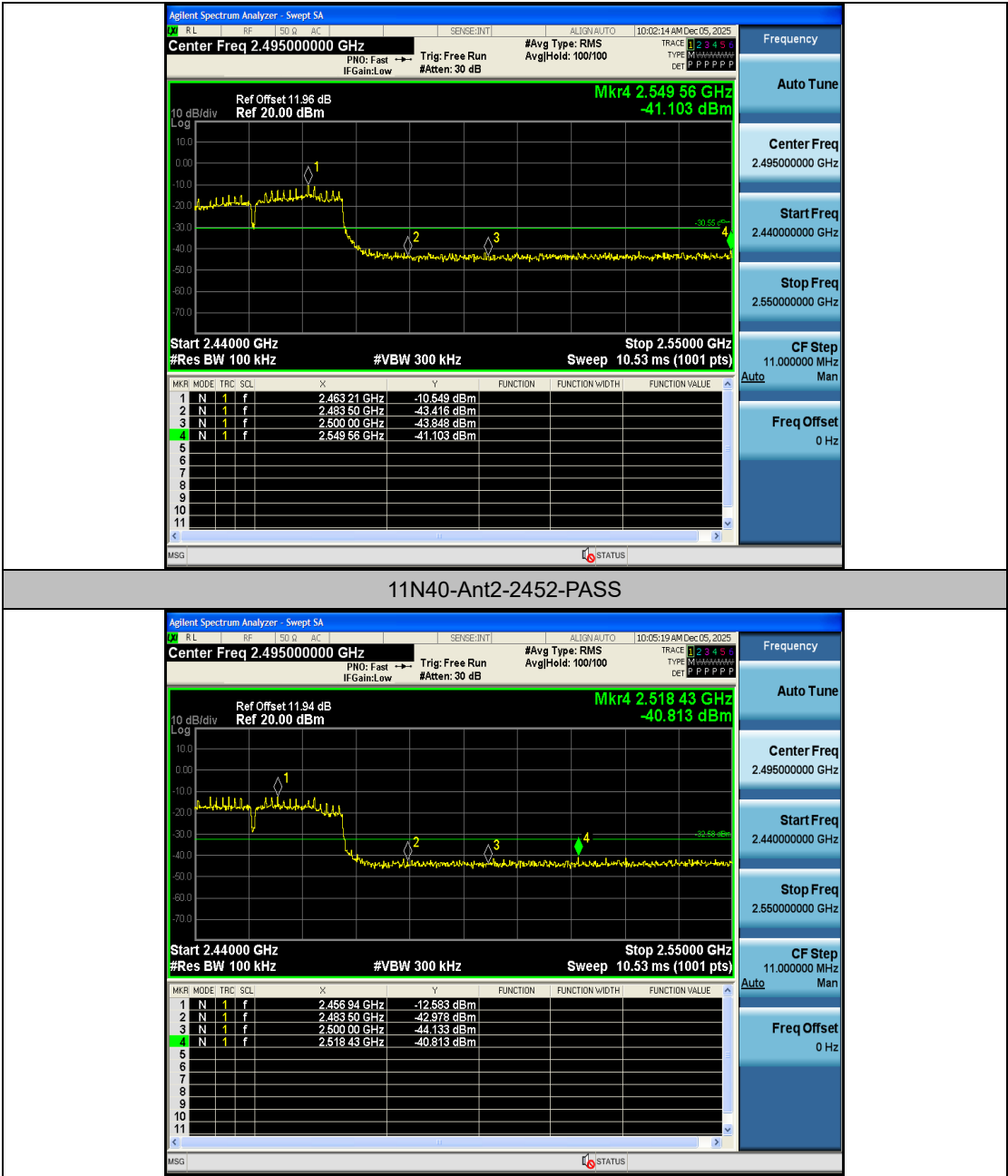












Appendix G: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	-4.13	-4.13	---	PASS
11B	Ant1	2412	30~1000	-4.13	-53.37	≤-24.13	PASS
11B	Ant1	2412	1000~26500	-4.13	-41.85	≤-24.13	PASS
11B	Ant2	2412	0~Reference	-2.14	-2.14	---	PASS
11B	Ant2	2412	30~1000	-2.14	-53.3	≤-22.14	PASS
11B	Ant2	2412	1000~26500	-2.14	-41.95	≤-22.14	PASS
11B	Ant1	2437	0~Reference	-3.24	-3.24	---	PASS
11B	Ant1	2437	30~1000	-3.24	-53.62	≤-23.24	PASS
11B	Ant1	2437	1000~26500	-3.24	-42.31	≤-23.24	PASS
11B	Ant2	2437	0~Reference	-5.02	-5.02	---	PASS
11B	Ant2	2437	30~1000	-5.02	-54.76	≤-25.02	PASS
11B	Ant2	2437	1000~26500	-5.02	-41.7	≤-25.02	PASS
11B	Ant1	2462	0~Reference	-4.99	-4.99	---	PASS
11B	Ant1	2462	30~1000	-4.99	-54.42	≤-24.99	PASS
11B	Ant1	2462	1000~26500	-4.99	-41.32	≤-24.99	PASS
11B	Ant2	2462	0~Reference	-4.81	-4.81	---	PASS
11B	Ant2	2462	30~1000	-4.81	-53.36	≤-24.81	PASS
11B	Ant2	2462	1000~26500	-4.81	-41.11	≤-24.81	PASS
11G	Ant1	2412	0~Reference	-8.24	-8.24	---	PASS
11G	Ant1	2412	30~1000	-8.24	-54.14	≤-28.24	PASS
11G	Ant1	2412	1000~26500	-8.24	-41.64	≤-28.24	PASS
11G	Ant2	2412	0~Reference	-8.34	-8.34	---	PASS
11G	Ant2	2412	30~1000	-8.34	-53.74	≤-28.34	PASS
11G	Ant2	2412	1000~26500	-8.34	-41.79	≤-28.34	PASS
11G	Ant1	2437	0~Reference	-8.94	-8.94	---	PASS
11G	Ant1	2437	30~1000	-8.94	-54.55	≤-28.94	PASS
11G	Ant1	2437	1000~26500	-8.94	-41.9	≤-28.94	PASS
11G	Ant2	2437	0~Reference	-9.15	-9.15	---	PASS
11G	Ant2	2437	30~1000	-9.15	-54.43	≤-29.15	PASS
11G	Ant2	2437	1000~26500	-9.15	-41.77	≤-29.15	PASS
11G	Ant1	2462	0~Reference	-8.70	-8.70	---	PASS
11G	Ant1	2462	30~1000	-8.70	-54.53	≤-28.7	PASS
11G	Ant1	2462	1000~26500	-8.70	-42.01	≤-28.7	PASS
11G	Ant2	2462	0~Reference	-7.51	-7.51	---	PASS
11G	Ant2	2462	30~1000	-7.51	-54.08	≤-27.51	PASS
11G	Ant2	2462	1000~26500	-7.51	-41.63	≤-27.51	PASS
11N20	Ant1	2412	0~Reference	-9.63	-9.63	---	PASS

11N20	Ant1	2412	30~1000	-9.63	-54.65	≤ -29.63	PASS
11N20	Ant1	2412	1000~26500	-9.63	-40.98	≤ -29.63	PASS
11N20	Ant2	2412	0~Reference	-8.79	-8.79	---	PASS
11N20	Ant2	2412	30~1000	-8.79	-53.64	≤ -28.79	PASS
11N20	Ant2	2412	1000~26500	-8.79	-42.11	≤ -28.79	PASS
11N20	Ant1	2437	0~Reference	-9.14	-9.14	---	PASS
11N20	Ant1	2437	30~1000	-9.14	-54.44	≤ -29.14	PASS
11N20	Ant1	2437	1000~26500	-9.14	-40.53	≤ -29.14	PASS
11N20	Ant2	2437	0~Reference	-9.54	-9.54	---	PASS
11N20	Ant2	2437	30~1000	-9.54	-54.39	≤ -29.54	PASS
11N20	Ant2	2437	1000~26500	-9.54	-42.61	≤ -29.54	PASS
11N20	Ant1	2462	0~Reference	-9.30	-9.30	---	PASS
11N20	Ant1	2462	30~1000	-9.30	-54.36	≤ -29.3	PASS
11N20	Ant1	2462	1000~26500	-9.30	-42.83	≤ -29.3	PASS
11N20	Ant2	2462	0~Reference	-9.08	-9.08	---	PASS
11N20	Ant2	2462	30~1000	-9.08	-54.83	≤ -29.08	PASS
11N20	Ant2	2462	1000~26500	-9.08	-42.11	≤ -29.08	PASS
11N40	Ant1	2422	0~Reference	-11.93	-11.93	---	PASS
11N40	Ant1	2422	30~1000	-11.93	-53.94	≤ -31.93	PASS
11N40	Ant1	2422	1000~26500	-11.93	-41.44	≤ -31.93	PASS
11N40	Ant2	2422	0~Reference	-12.08	-12.08	---	PASS
11N40	Ant2	2422	30~1000	-12.08	-54.38	≤ -32.08	PASS
11N40	Ant2	2422	1000~26500	-12.08	-42.81	≤ -32.08	PASS
11N40	Ant1	2437	0~Reference	-12.13	-12.13	---	PASS
11N40	Ant1	2437	30~1000	-12.13	-54.7	≤ -32.13	PASS
11N40	Ant1	2437	1000~26500	-12.13	-42.06	≤ -32.13	PASS
11N40	Ant2	2437	0~Reference	-12.76	-12.76	---	PASS
11N40	Ant2	2437	30~1000	-12.76	-54.97	≤ -32.76	PASS
11N40	Ant2	2437	1000~26500	-12.76	-42.38	≤ -32.76	PASS
11N40	Ant1	2452	0~Reference	-10.85	-10.85	---	PASS
11N40	Ant1	2452	30~1000	-10.85	-54.27	≤ -30.85	PASS
11N40	Ant1	2452	1000~26500	-10.85	-42.04	≤ -30.85	PASS
11N40	Ant2	2452	0~Reference	-13.02	-13.02	---	PASS
11N40	Ant2	2452	30~1000	-13.02	-54.28	≤ -33.02	PASS
11N40	Ant2	2452	1000~26500	-13.02	-42.19	≤ -33.02	PASS

Test Graphs

