

Appendix Test Data for WLAN(2. 4G) (Conducted Measurement)

Product Name: NucBox

Trade Mark: GMKtec

Test Model: M7

FCC ID: 2AXUD-M7

Environmental Conditions

Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

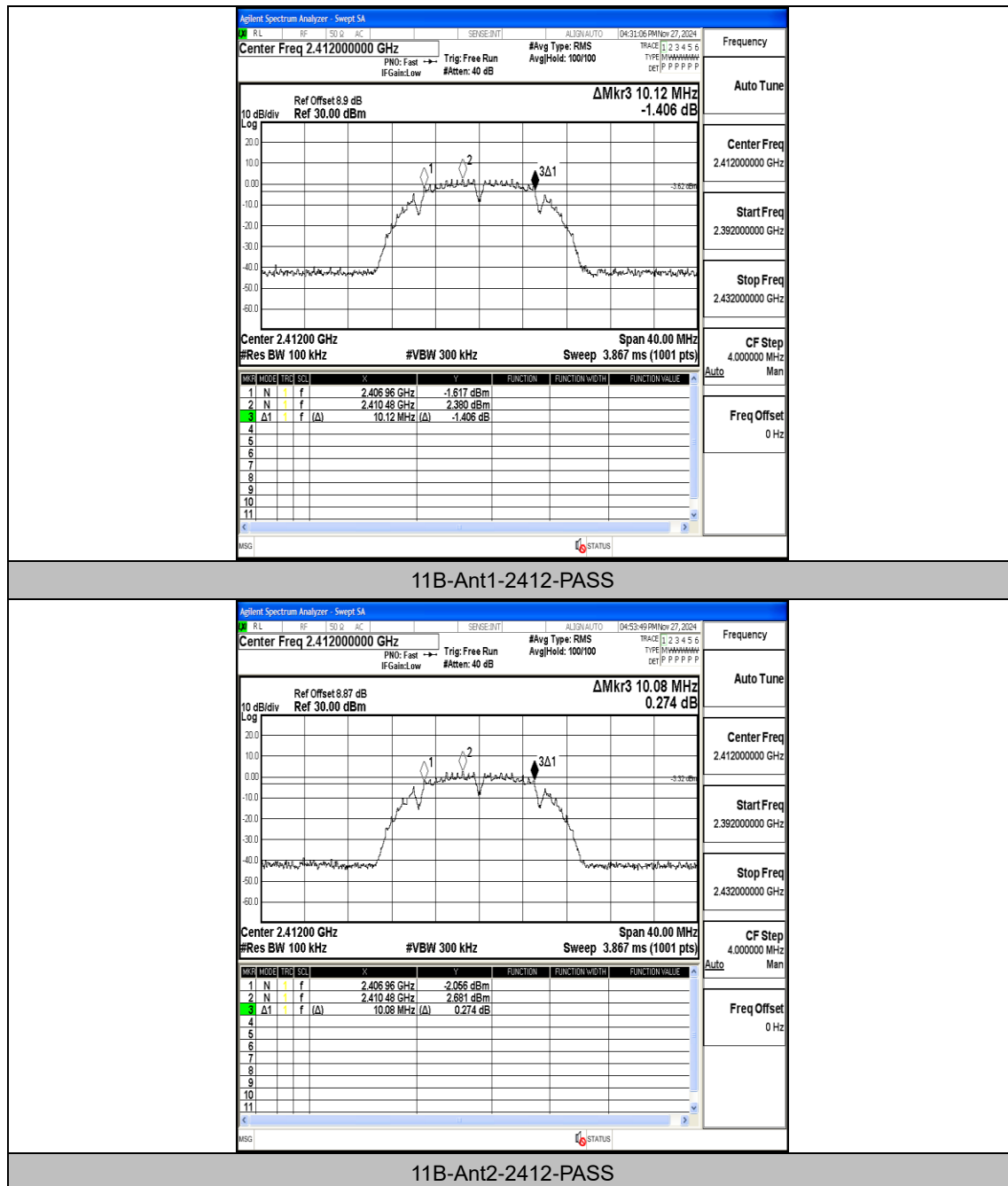
Appendix A: DTS Bandwidth

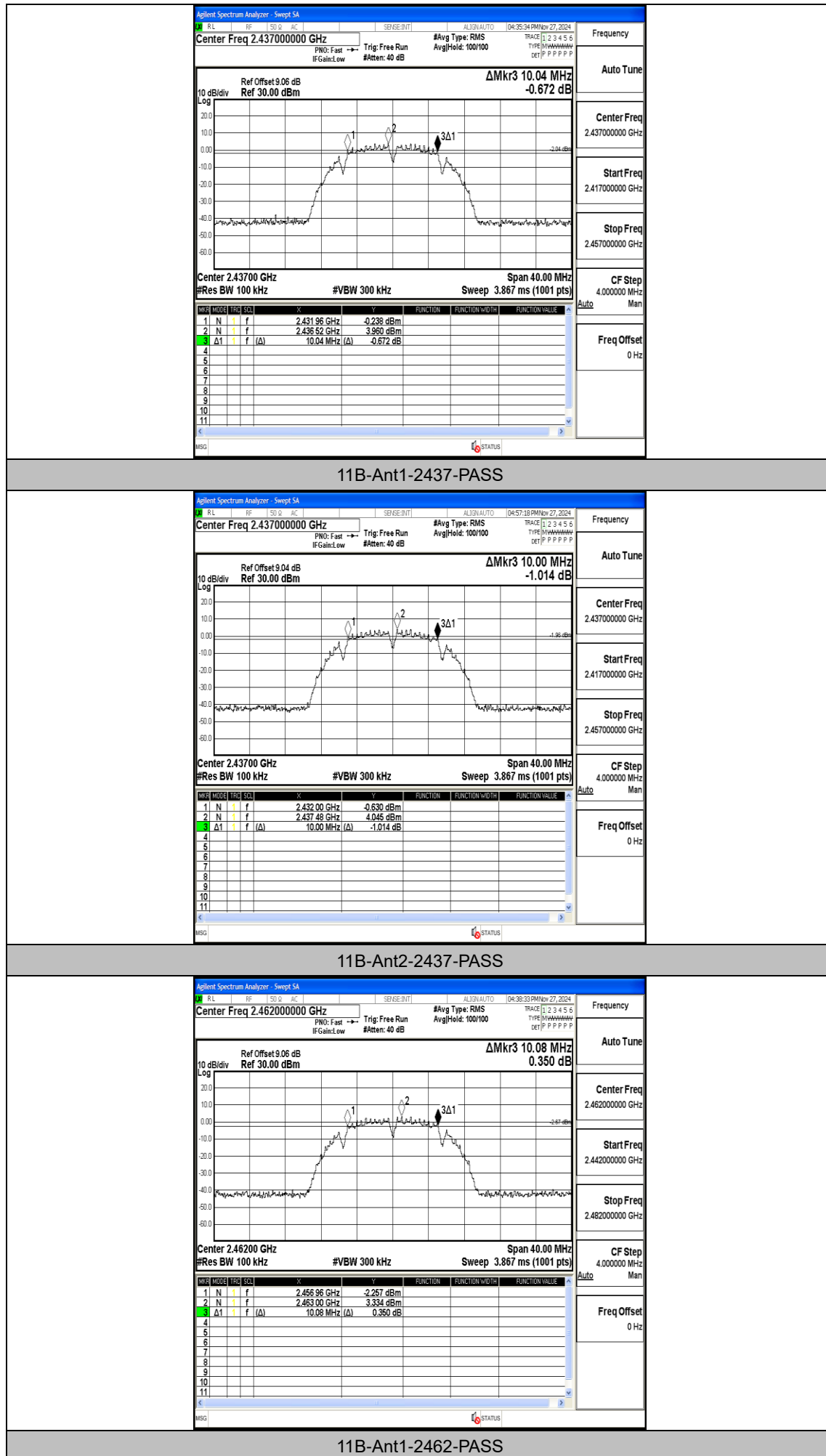
Test Result

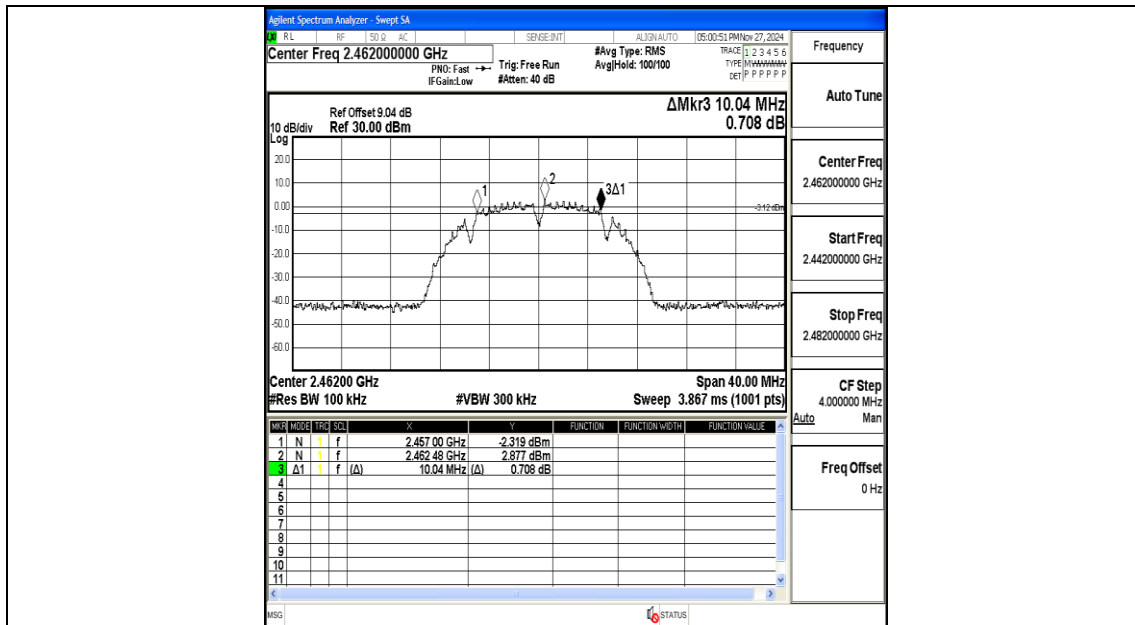
Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	10.120	2406.960	2417.080	0.5	PASS
11B	Ant2	2412	10.080	2406.960	2417.040	0.5	PASS
11B	Ant1	2437	10.040	2431.960	2442.000	0.5	PASS
11B	Ant2	2437	10.000	2432.000	2442.000	0.5	PASS
11B	Ant1	2462	10.080	2456.960	2467.040	0.5	PASS
11B	Ant2	2462	10.040	2457.000	2467.040	0.5	PASS
11G	Ant1	2412	15.160	2404.440	2419.600	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	15.040	2429.520	2444.560	0.5	PASS
11G	Ant1	2462	15.080	2454.480	2469.560	0.5	PASS
11G	Ant2	2462	15.120	2454.440	2469.560	0.5	PASS
11N20MIMO	Ant1	2412	13.840	2405.680	2419.520	0.5	PASS
11N20MIMO	Ant2	2412	15.080	2404.480	2419.560	0.5	PASS
11N20MIMO	Ant1	2437	15.120	2429.440	2444.560	0.5	PASS
11N20MIMO	Ant2	2437	15.080	2429.480	2444.560	0.5	PASS
11N20MIMO	Ant1	2462	15.120	2454.440	2469.560	0.5	PASS
11N20MIMO	Ant2	2462	15.120	2454.480	2469.600	0.5	PASS
11N40MIMO	Ant1	2422	35.040	2404.480	2439.520	0.5	PASS
11N40MIMO	Ant2	2422	35.040	2404.480	2439.520	0.5	PASS
11N40MIMO	Ant1	2437	35.040	2419.480	2454.520	0.5	PASS
11N40MIMO	Ant2	2437	35.040	2419.480	2454.520	0.5	PASS
11N40MIMO	Ant1	2452	35.040	2434.480	2469.520	0.5	PASS
11N40MIMO	Ant2	2452	35.120	2434.480	2469.600	0.5	PASS
11AX20MIMO	Ant1	2412	16.040	2403.520	2419.560	0.5	PASS

11AX20MIMO	Ant2	2412	17.520	2403.320	2420.840	0.5	PASS
11AX20MIMO	Ant1	2437	15.080	2429.480	2444.560	0.5	PASS
11AX20MIMO	Ant2	2437	16.280	2428.280	2444.560	0.5	PASS
11AX20MIMO	Ant1	2462	15.080	2454.480	2469.560	0.5	PASS
11AX20MIMO	Ant2	2462	13.880	2455.680	2469.560	0.5	PASS
11AX40MIMO	Ant1	2422	35.040	2404.480	2439.520	0.5	PASS
11AX40MIMO	Ant2	2422	35.040	2404.480	2439.520	0.5	PASS
11AX40MIMO	Ant1	2437	33.840	2419.480	2453.320	0.5	PASS
11AX40MIMO	Ant2	2437	35.040	2419.480	2454.520	0.5	PASS
11AX40MIMO	Ant1	2452	35.040	2434.480	2469.520	0.5	PASS
11AX40MIMO	Ant2	2452	35.120	2434.480	2469.600	0.5	PASS

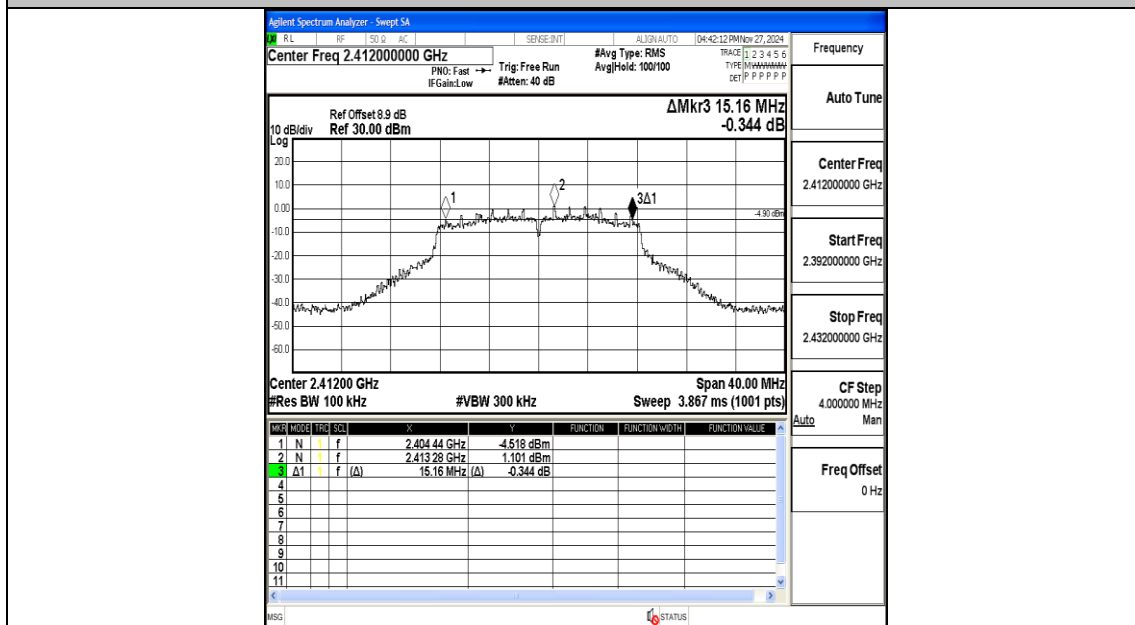
Test Graphs



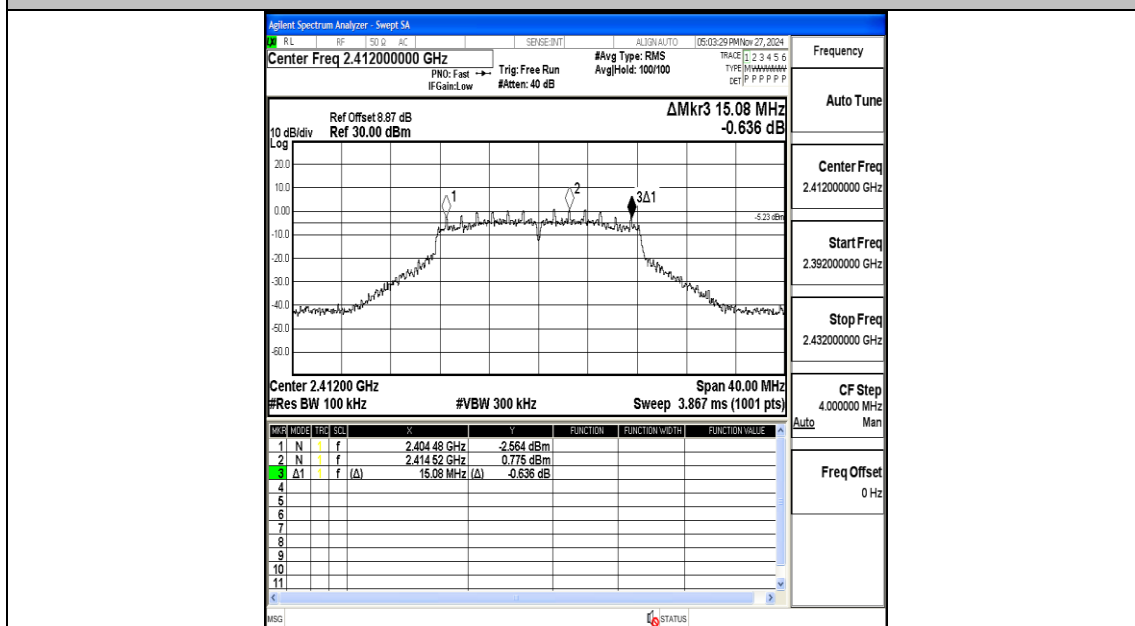




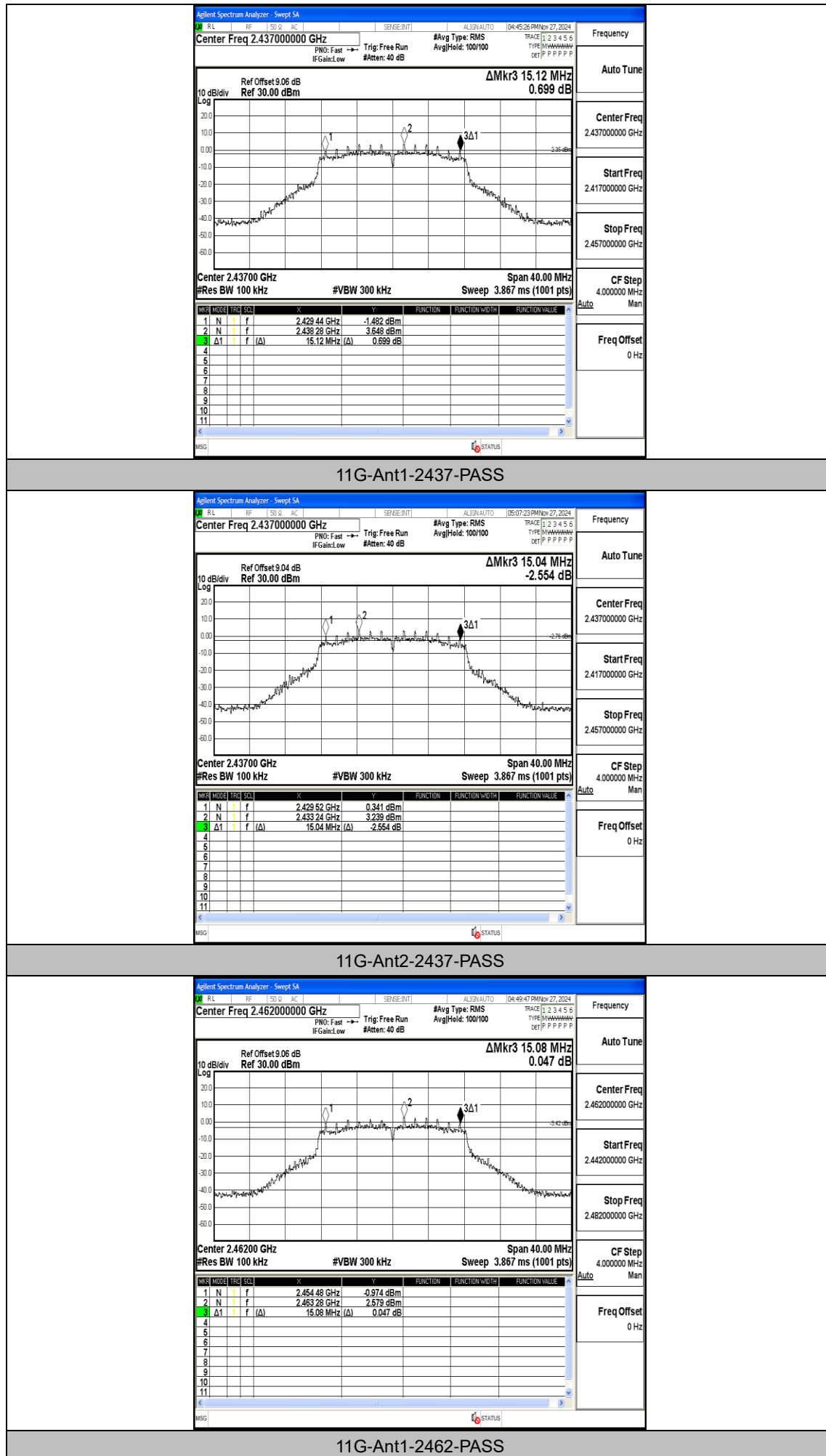
11B-Ant2-2462-PASS

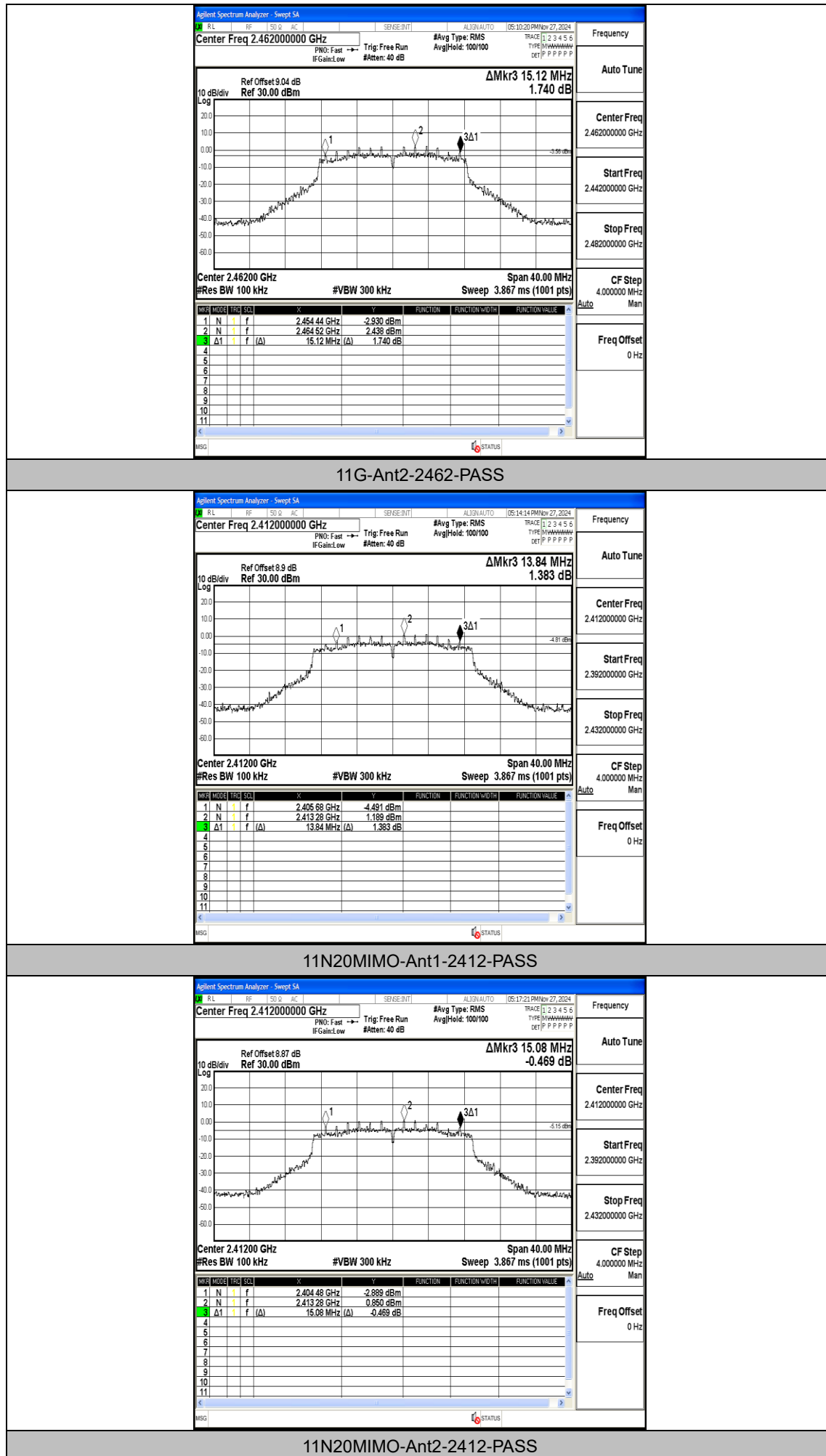


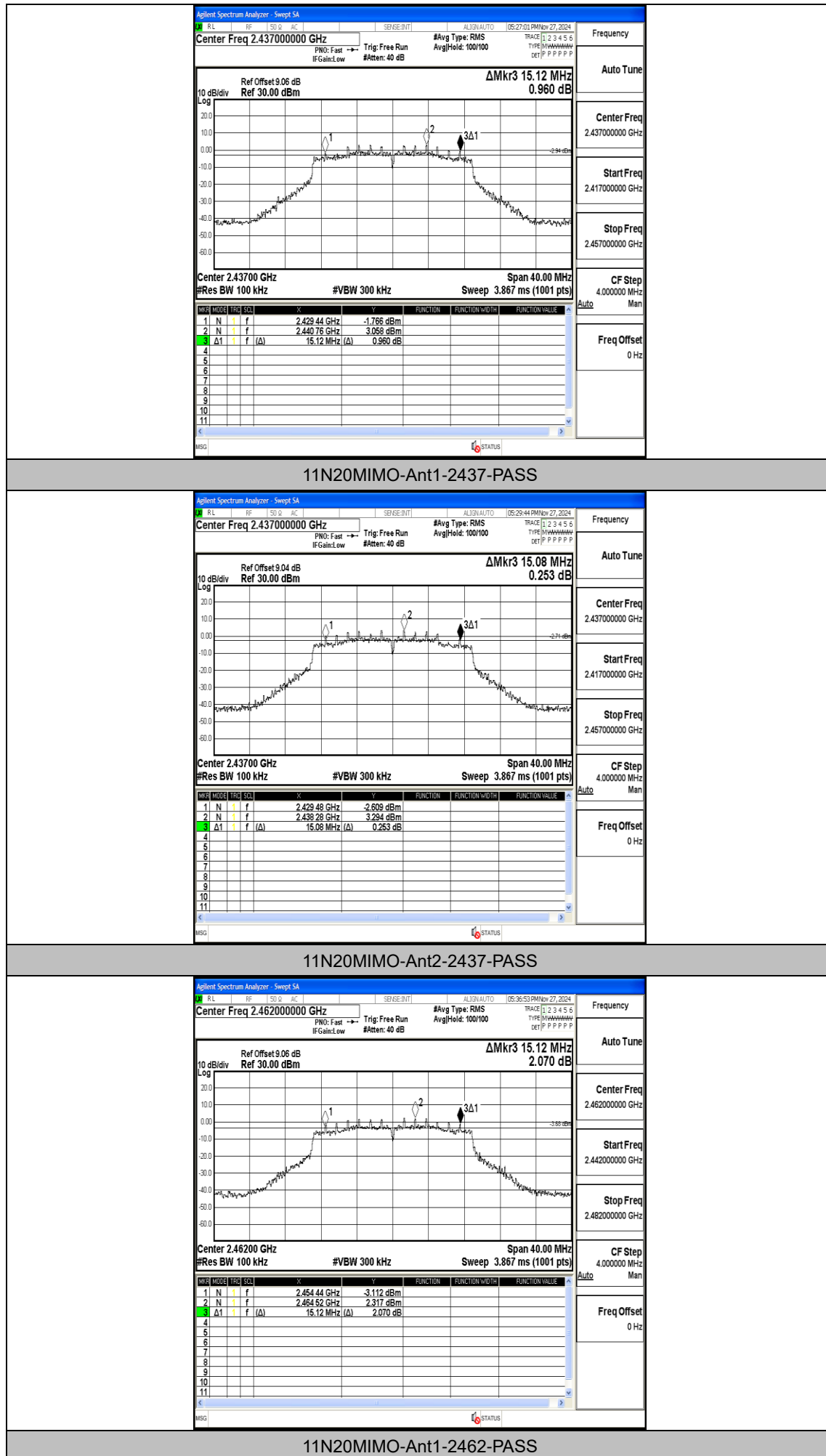
11G-Ant1-2412-PASS

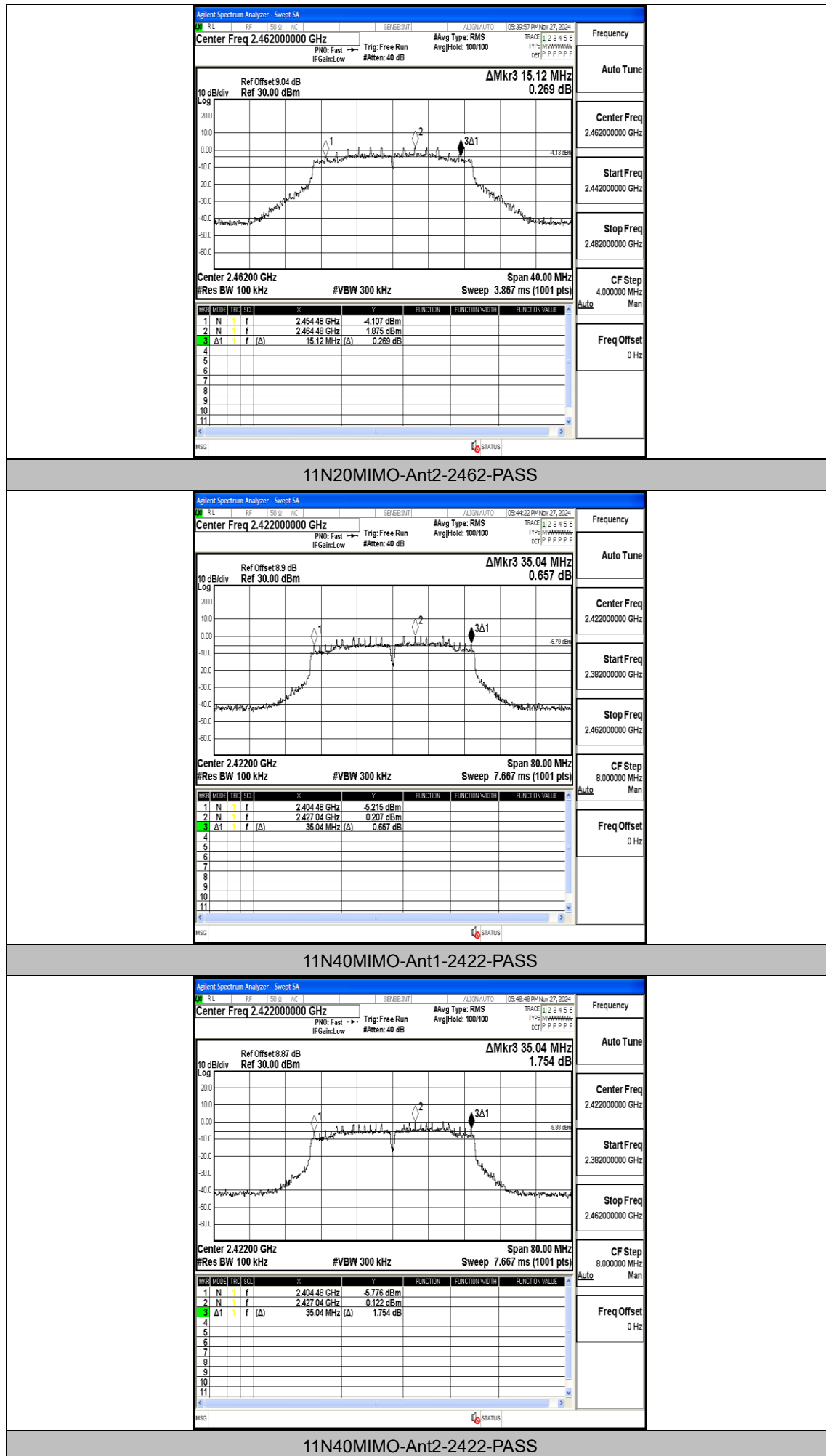


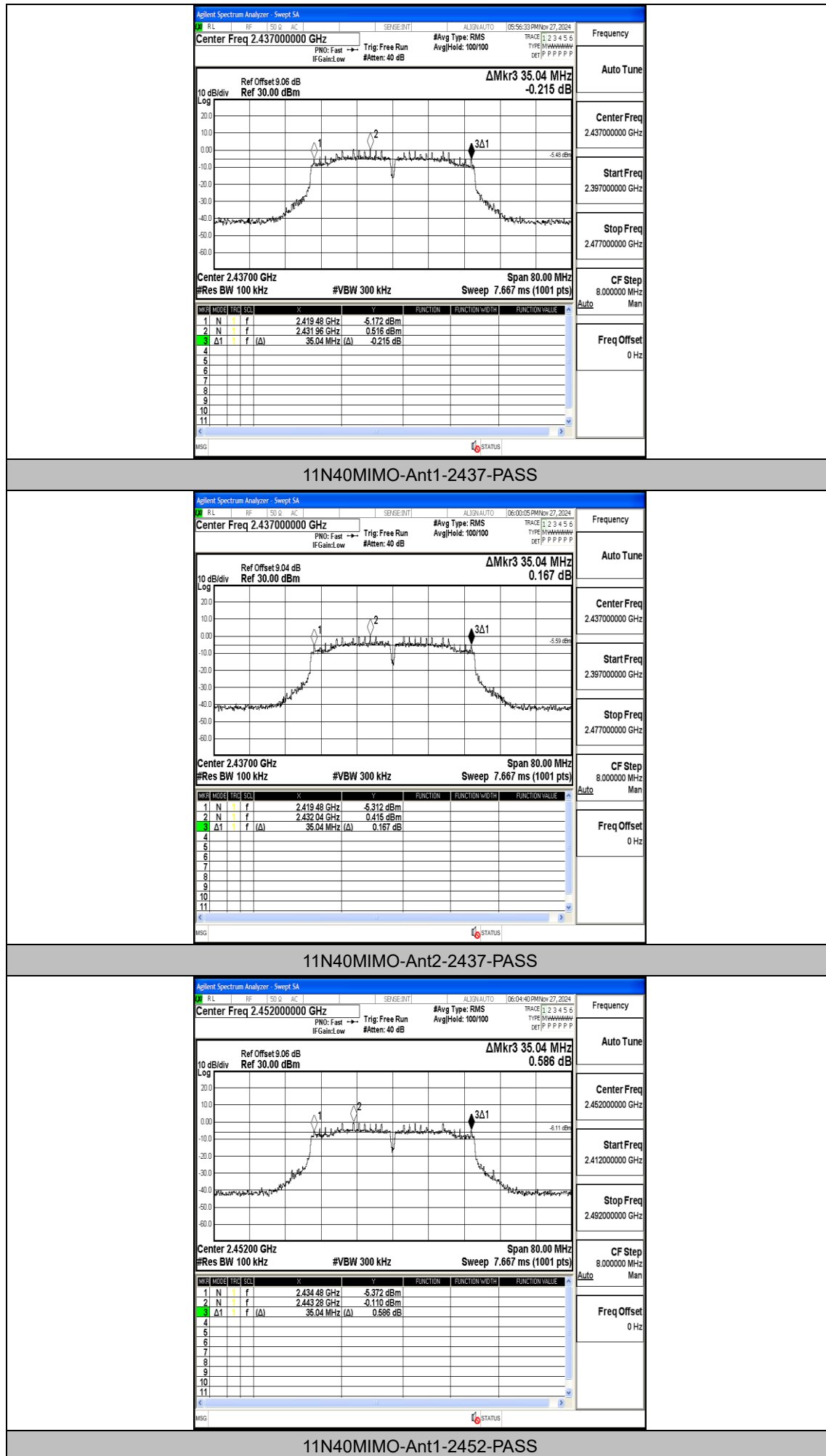
11G-Ant2-2412-PASS

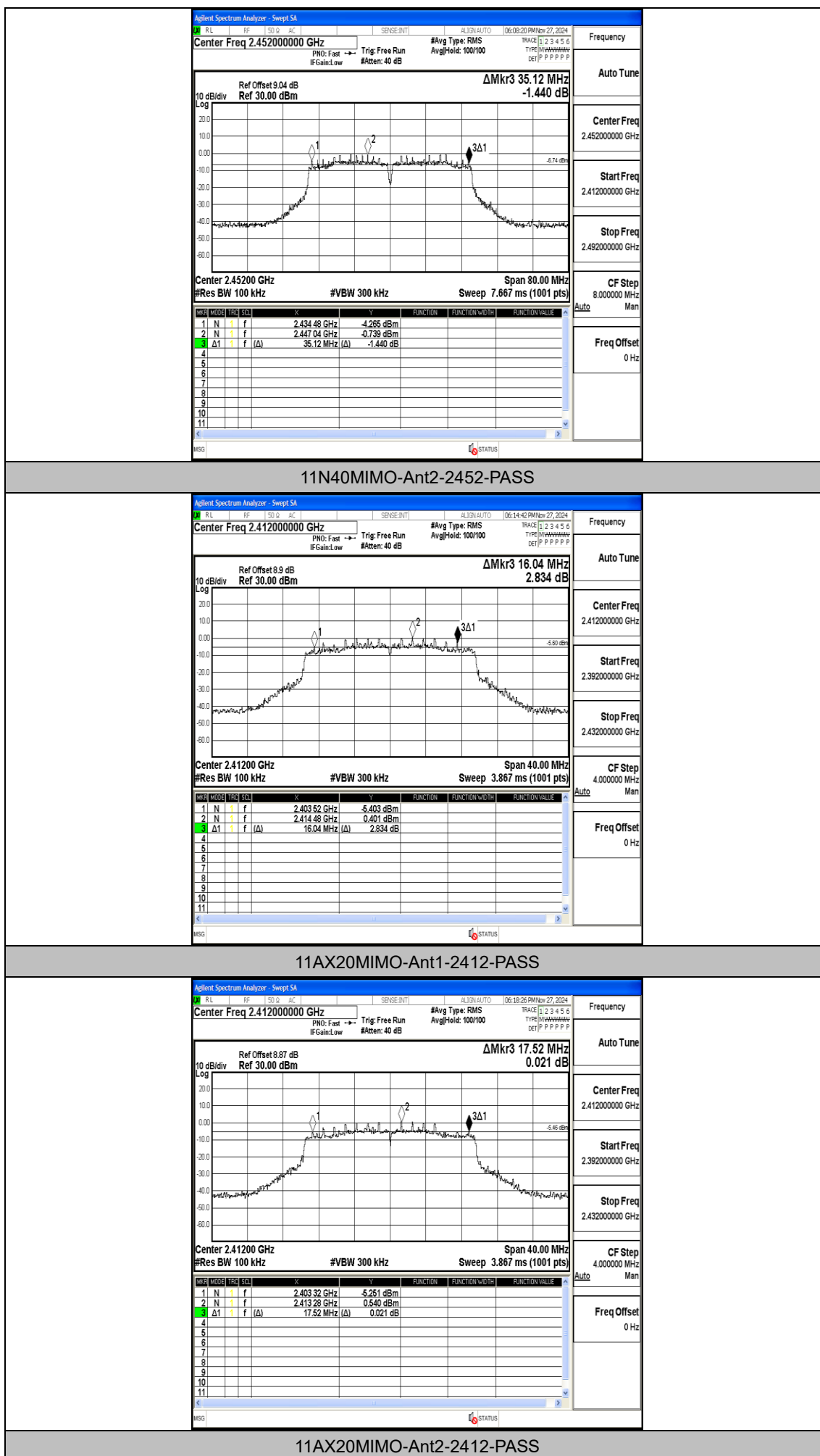


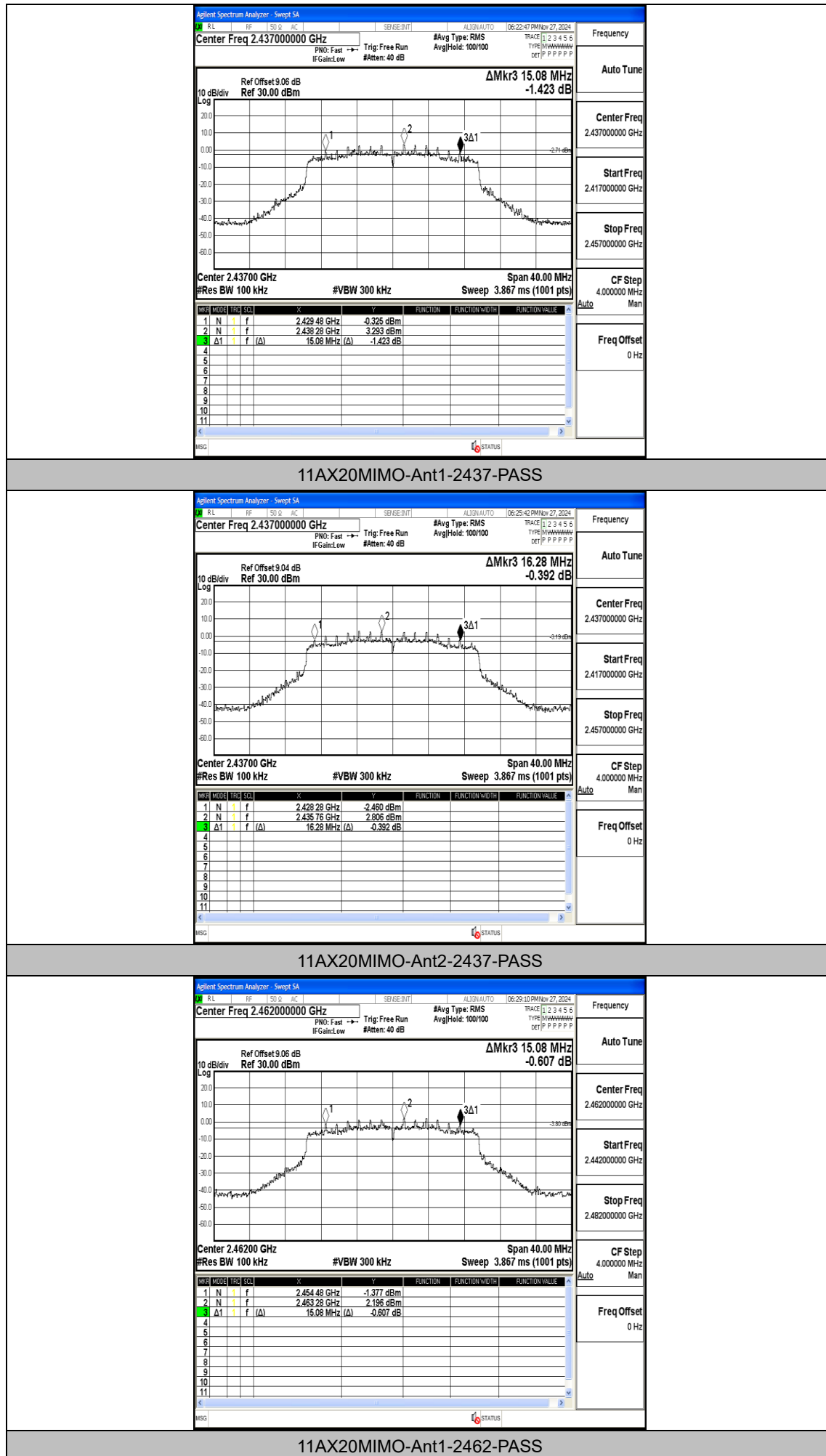


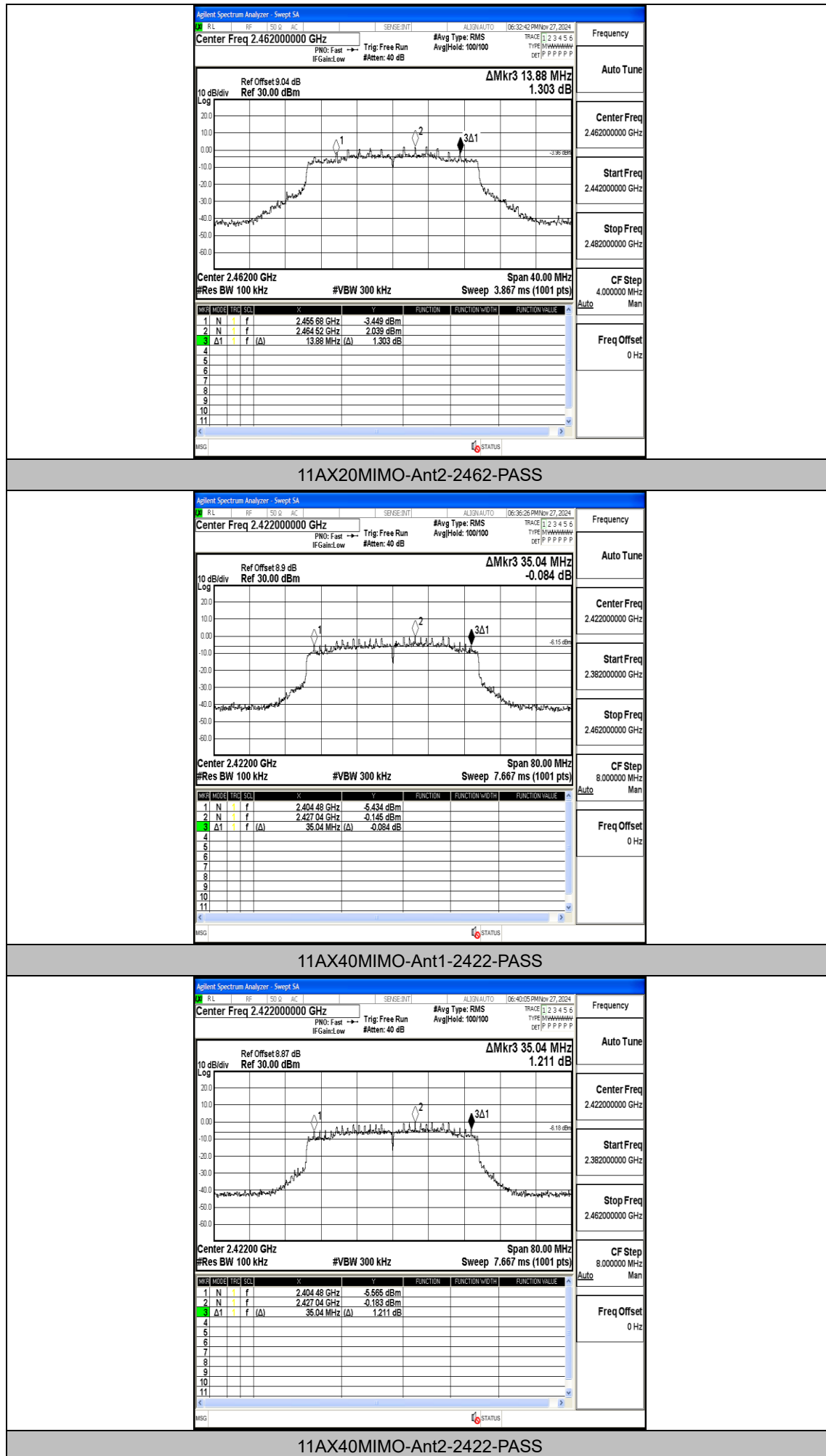


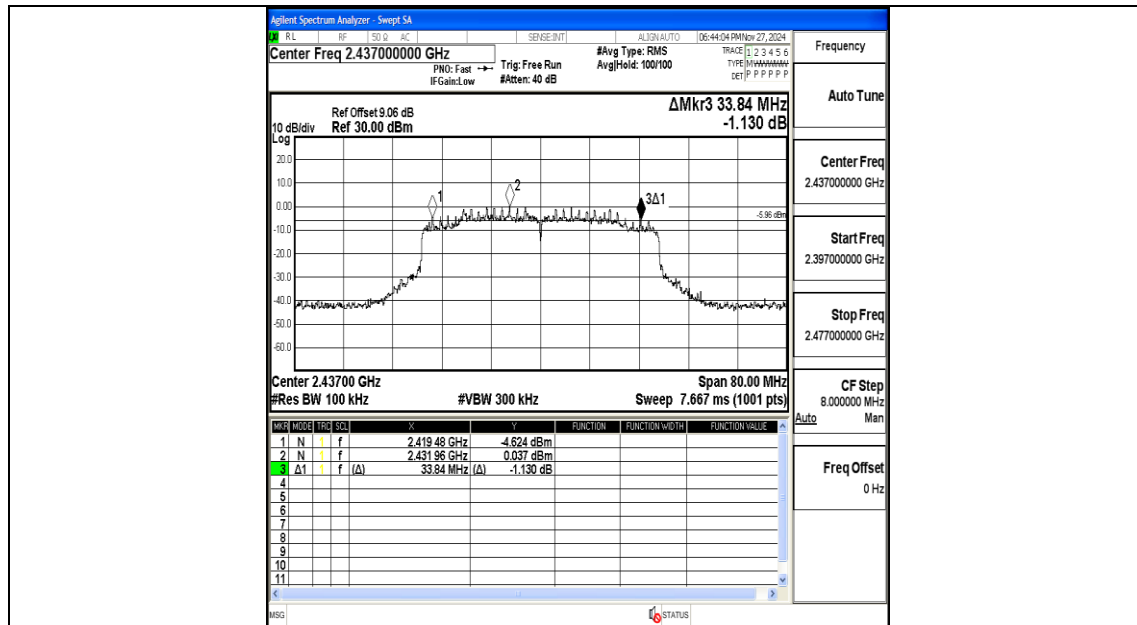




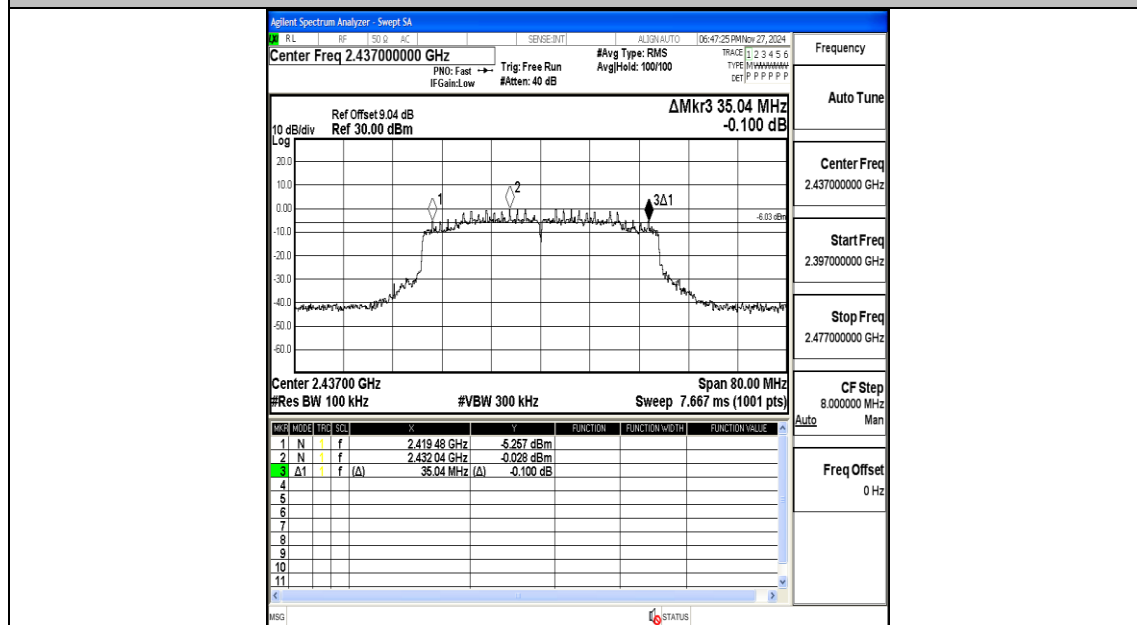




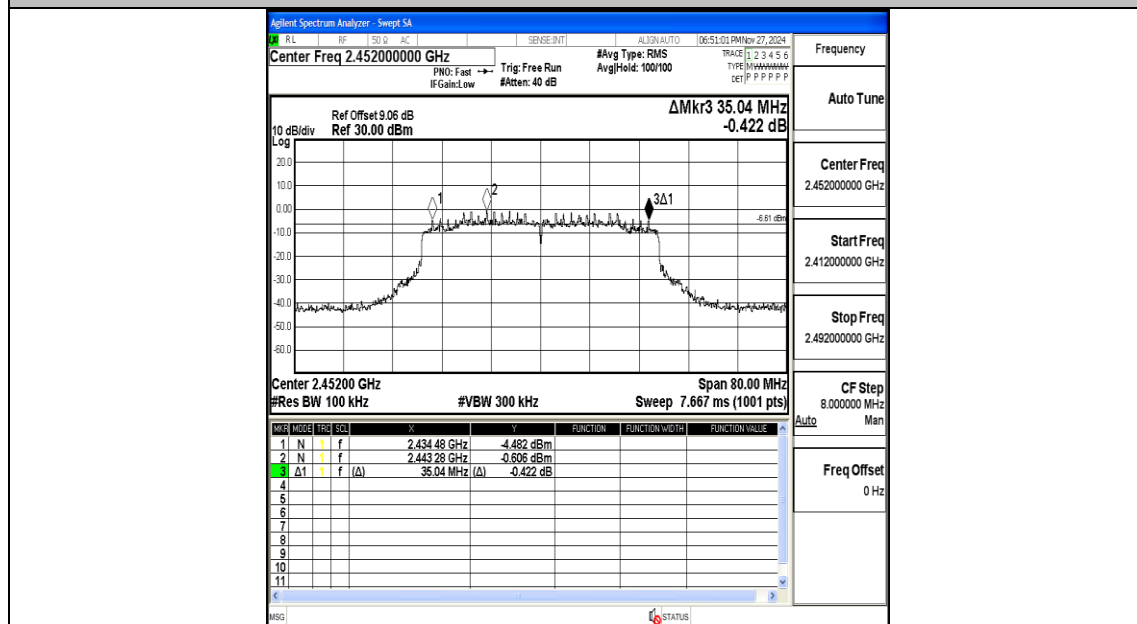




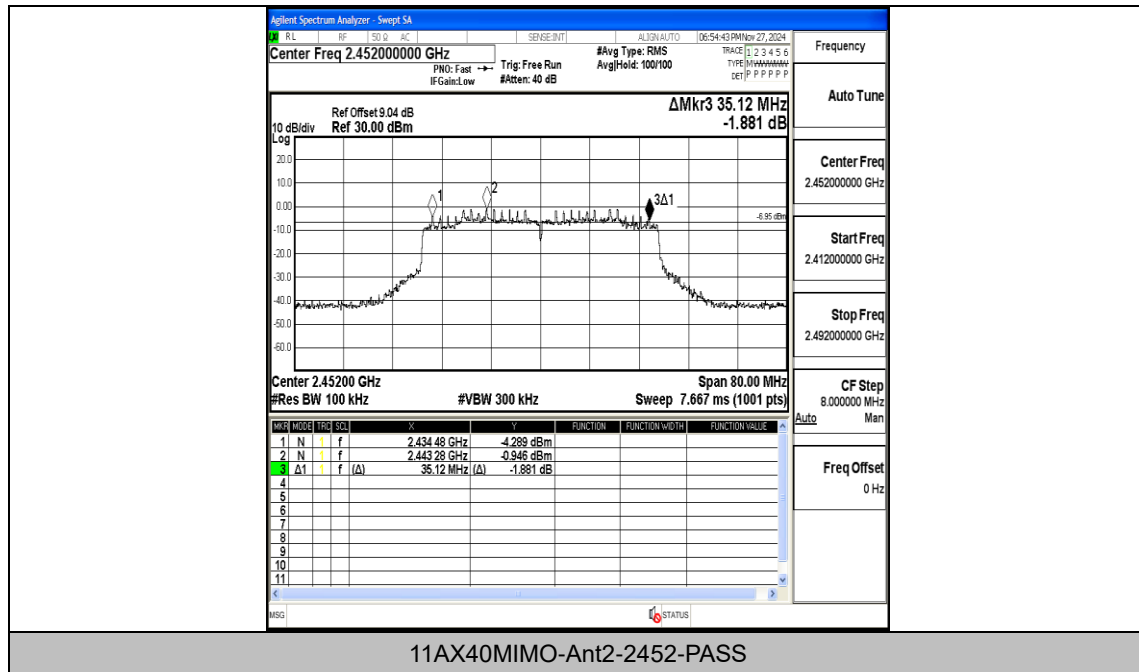
11AX40MIMO-Ant1-2437-PASS



11AX40MIMO-Ant2-2437-PASS



11AX40MIMO-Ant1-2452-PASS

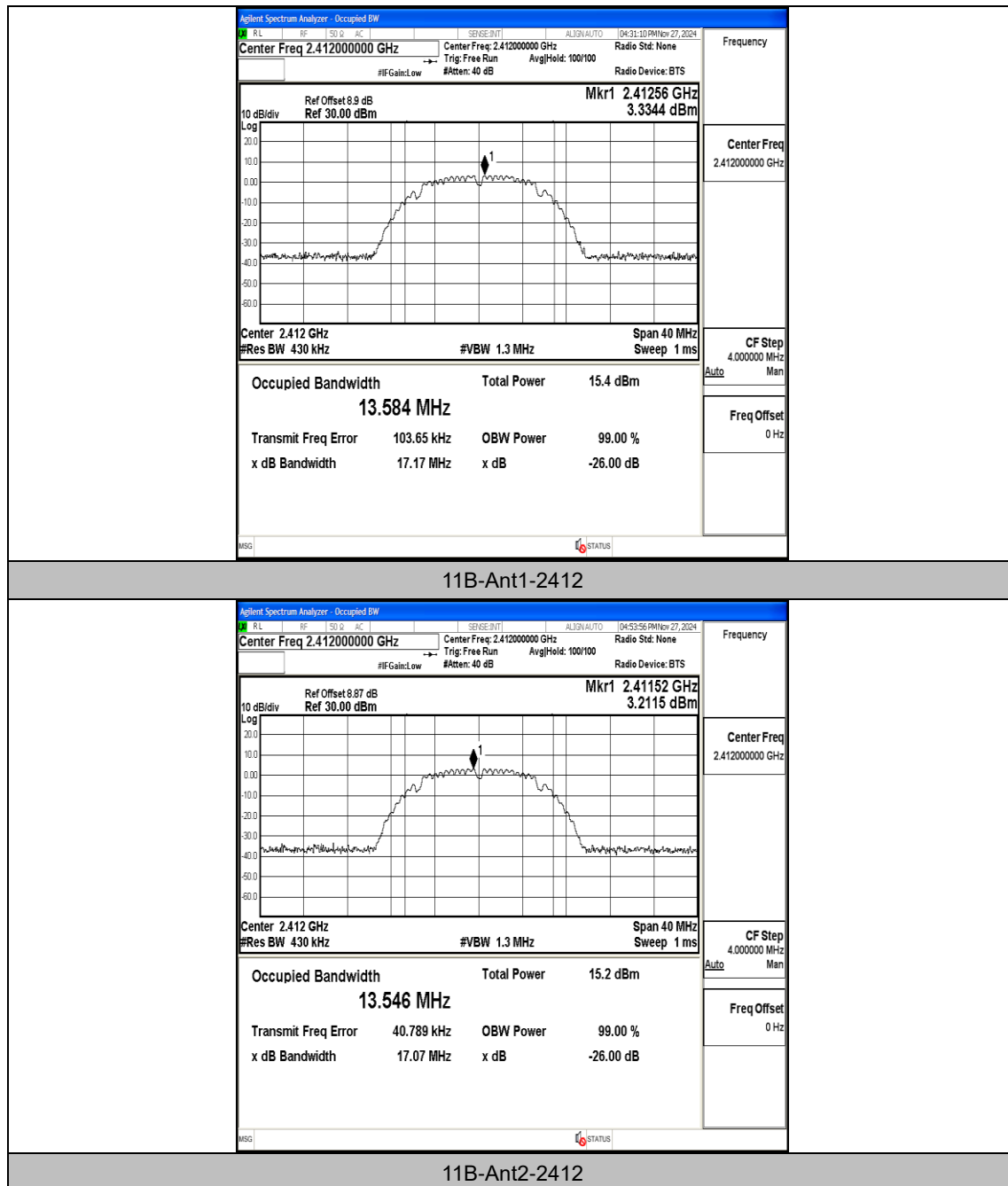


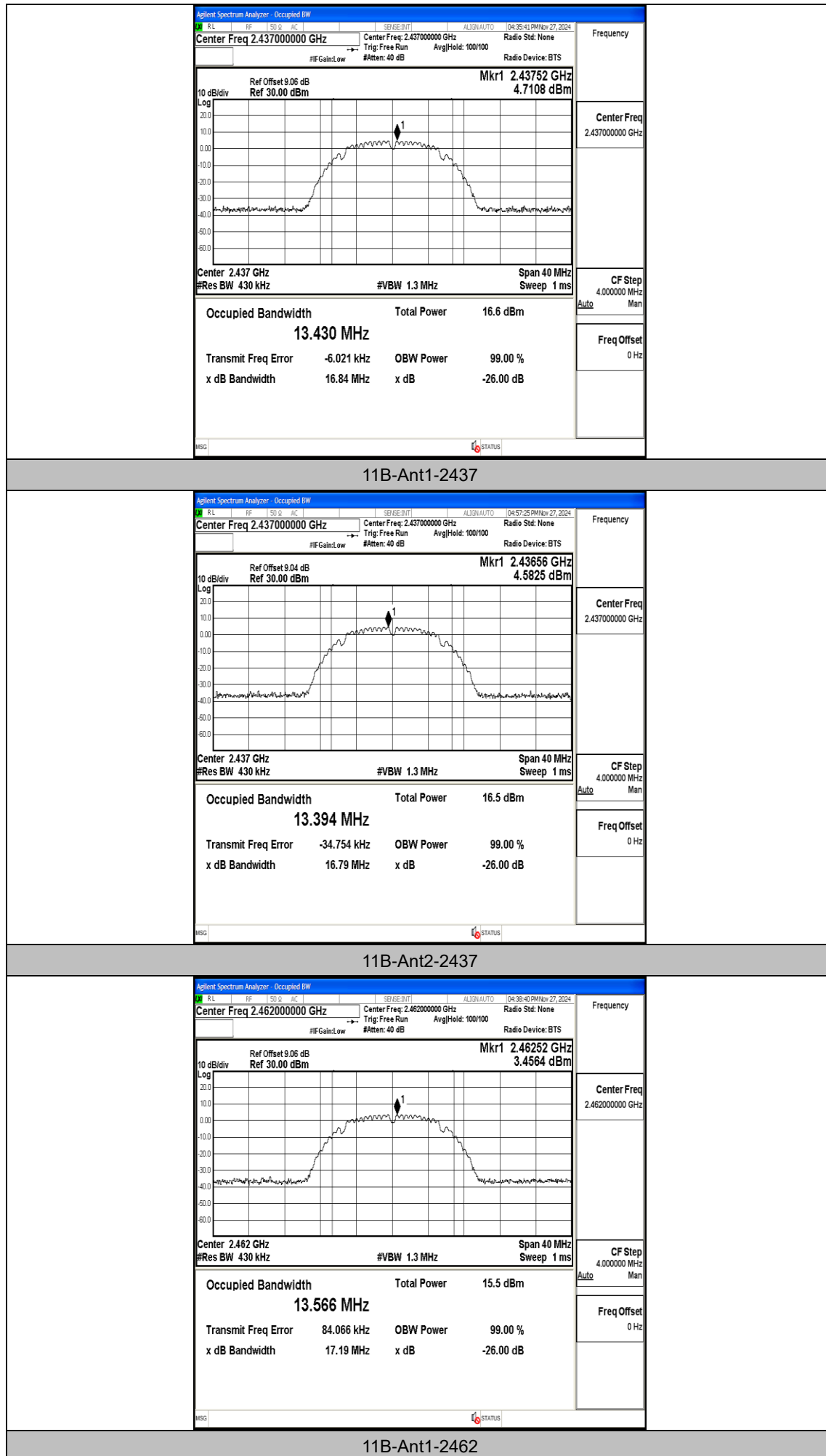
Appendix B: Occupied Channel Bandwidth

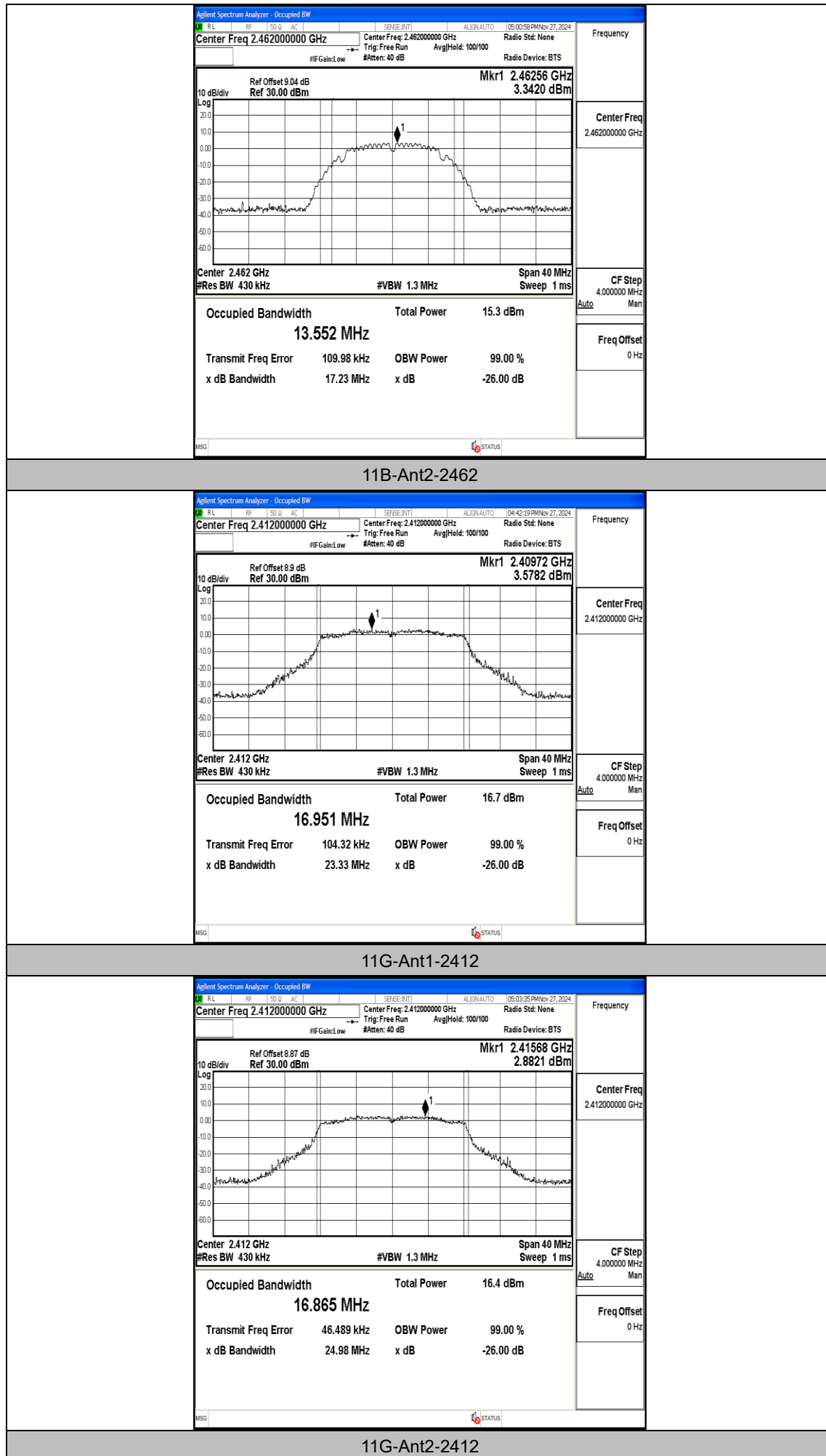
Test Result

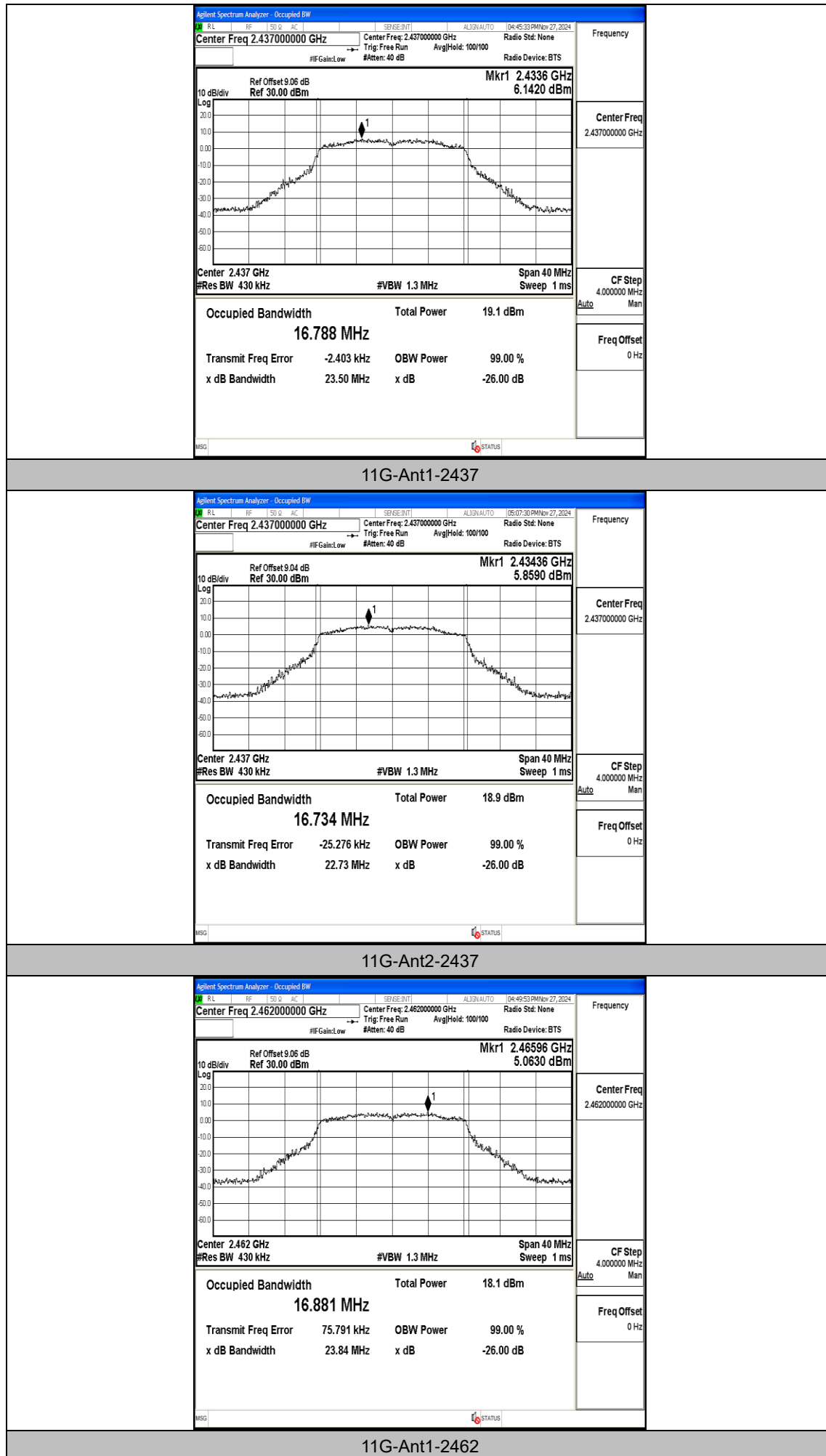
Test Mode	Antenna	Channel Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	13.584	2405.3117	2418.8957	---	---
11B	Ant2	2412	13.546	2405.2678	2418.8138	---	---
11B	Ant1	2437	13.430	2430.2790	2443.7090	---	---
11B	Ant2	2437	13.394	2430.2683	2443.6623	---	---
11B	Ant1	2462	13.566	2455.3011	2468.8671	---	---
11B	Ant2	2462	13.552	2455.3340	2468.8860	---	---
11G	Ant1	2412	16.951	2403.6288	2420.5798	---	---
11G	Ant2	2412	16.865	2403.6140	2420.4790	---	---
11G	Ant1	2437	16.788	2428.6036	2445.3916	---	---
11G	Ant2	2437	16.734	2428.6077	2445.3417	---	---
11G	Ant1	2462	16.881	2453.6353	2470.5163	---	---
11G	Ant2	2462	16.817	2453.6773	2470.4943	---	---
11N20MIMO	Ant1	2412	17.988	2403.1093	2421.0973	---	---
11N20MIMO	Ant2	2412	18.057	2402.9914	2421.0484	---	---
11N20MIMO	Ant1	2437	17.934	2428.0315	2445.9655	---	---
11N20MIMO	Ant2	2437	17.812	2428.0486	2445.8606	---	---
11N20MIMO	Ant1	2462	17.932	2453.1122	2471.0442	---	---
11N20MIMO	Ant2	2462	17.914	2453.0830	2470.9970	---	---
11N40MIMO	Ant1	2422	35.961	2404.1756	2440.1366	---	---
11N40MIMO	Ant2	2422	35.995	2404.2129	2440.2079	---	---
11N40MIMO	Ant1	2437	35.855	2419.1145	2454.9695	---	---
11N40MIMO	Ant2	2437	35.865	2419.1316	2454.9966	---	---
11N40MIMO	Ant1	2452	36.190	2433.9859	2470.1759	---	---
11N40MIMO	Ant2	2452	36.257	2433.9734	2470.2304	---	---
11AX20MIMO	Ant1	2412	19.057	2402.5277	2421.5847	---	---
11AX20MIMO	Ant2	2412	19.001	2402.5352	2421.5362	---	---
11AX20MIMO	Ant1	2437	18.887	2427.5813	2446.4683	---	---
11AX20MIMO	Ant2	2437	18.912	2427.5249	2446.4369	---	---
11AX20MIMO	Ant1	2462	18.971	2452.5545	2471.5255	---	---
11AX20MIMO	Ant2	2462	18.978	2452.5624	2471.5404	---	---
11AX40MIMO	Ant1	2422	37.448	2403.4011	2440.8491	---	---
11AX40MIMO	Ant2	2422	37.502	2403.4241	2440.9261	---	---
11AX40MIMO	Ant1	2437	37.294	2418.3179	2455.6119	---	---
11AX40MIMO	Ant2	2437	37.289	2418.4372	2455.7262	---	---
11AX40MIMO	Ant1	2452	37.661	2433.2279	2470.8889	---	---
11AX40MIMO	Ant2	2452	37.657	2433.3005	2470.9575	---	---

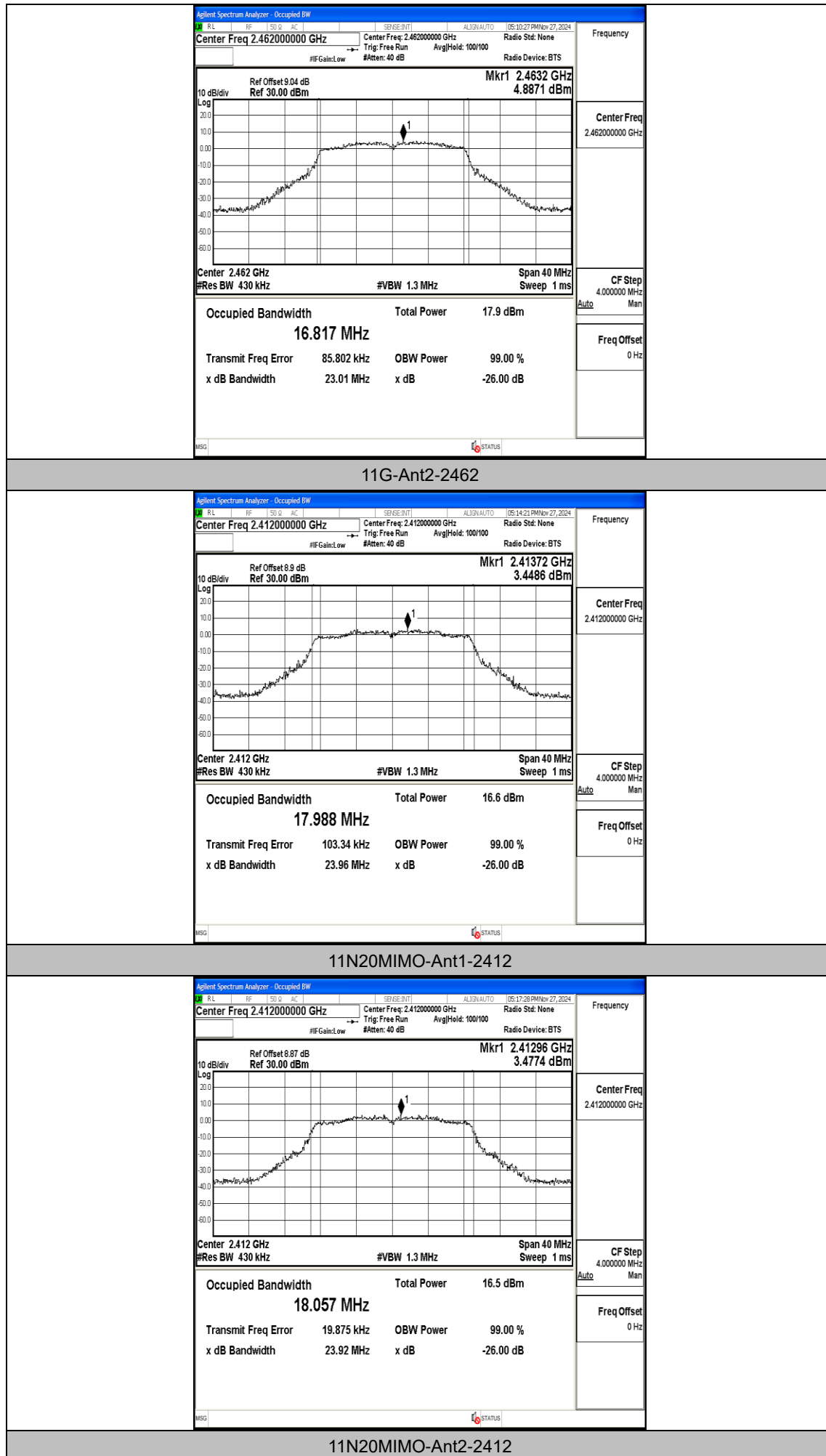
Test Graphs

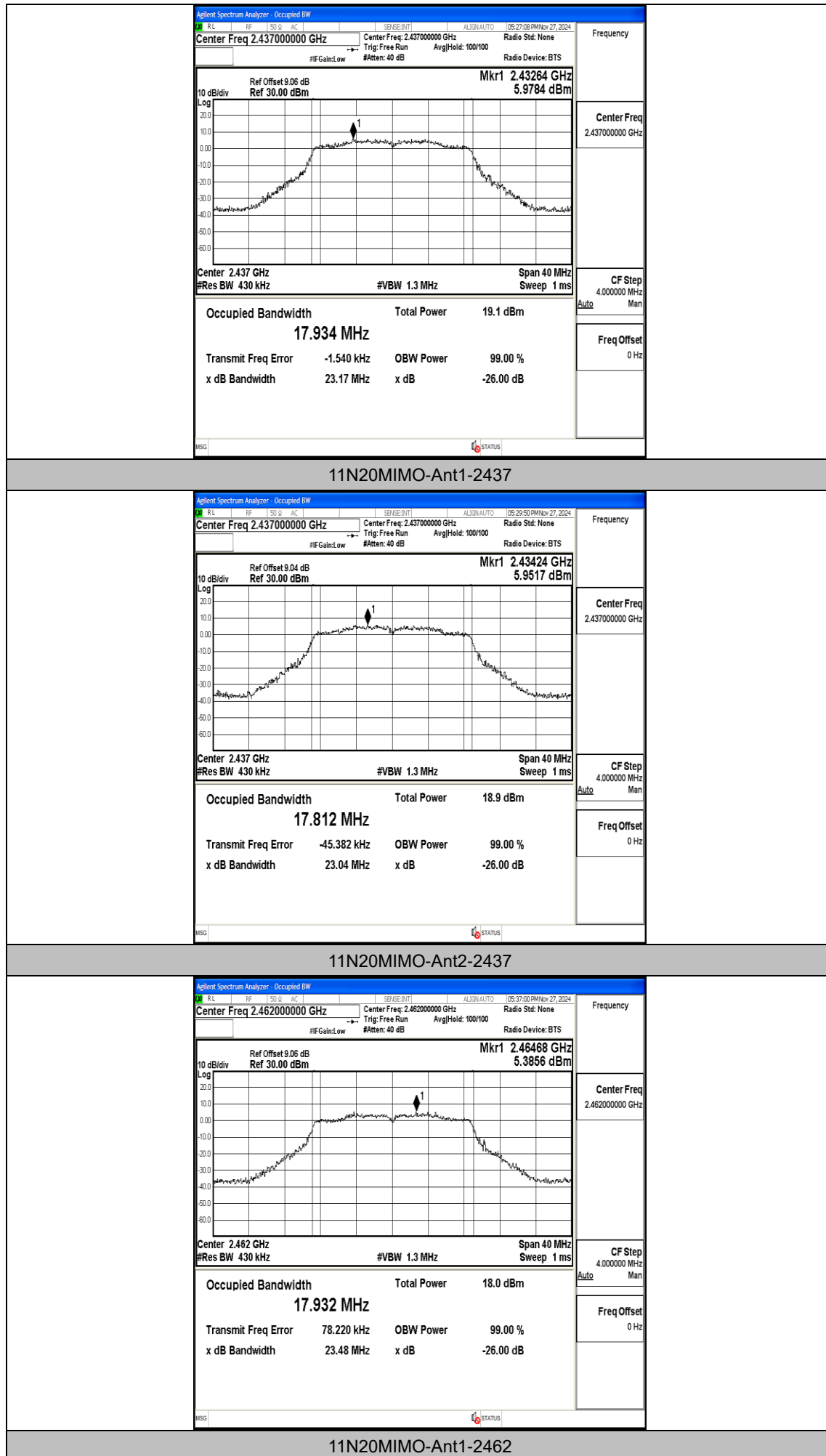


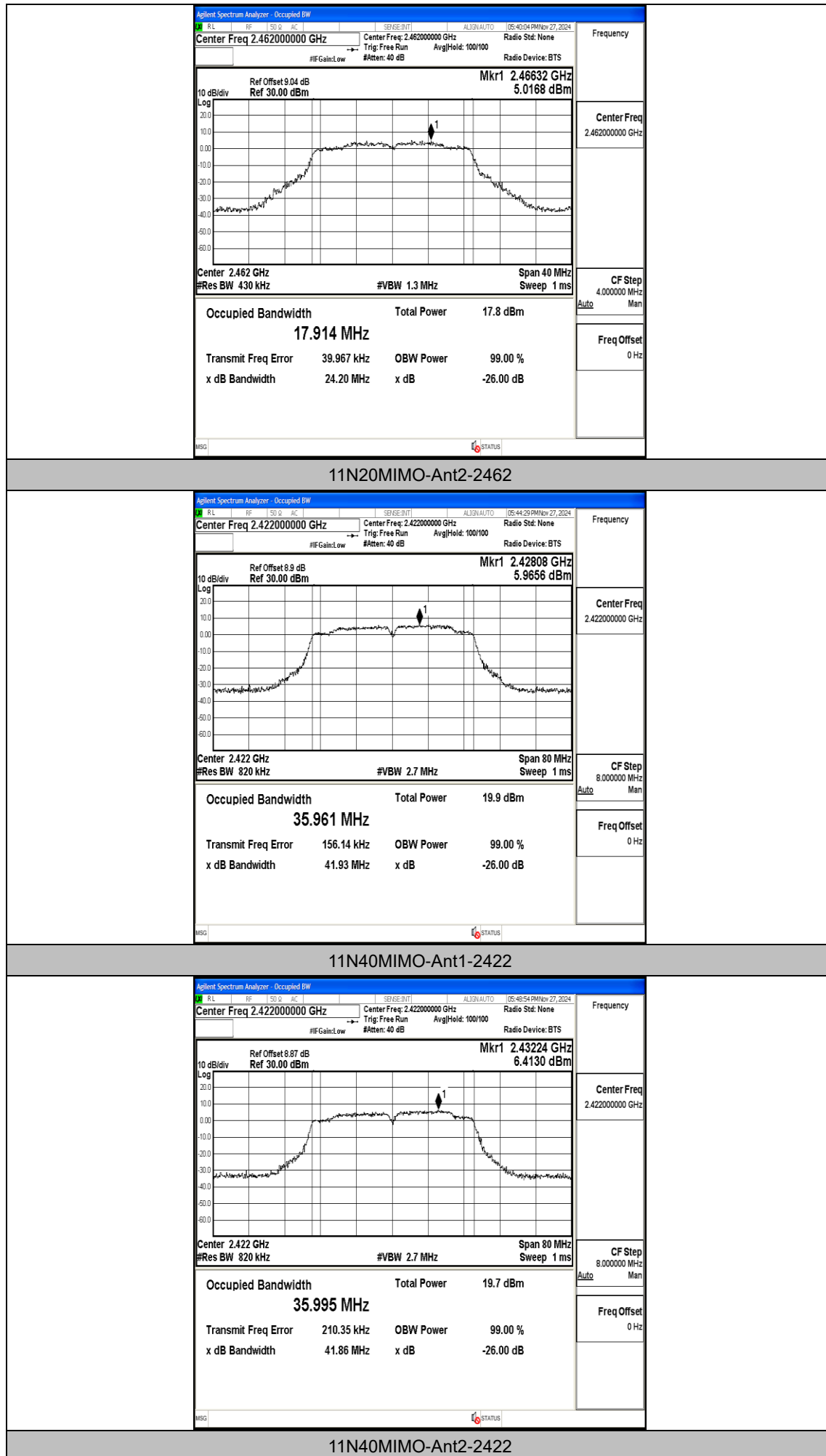


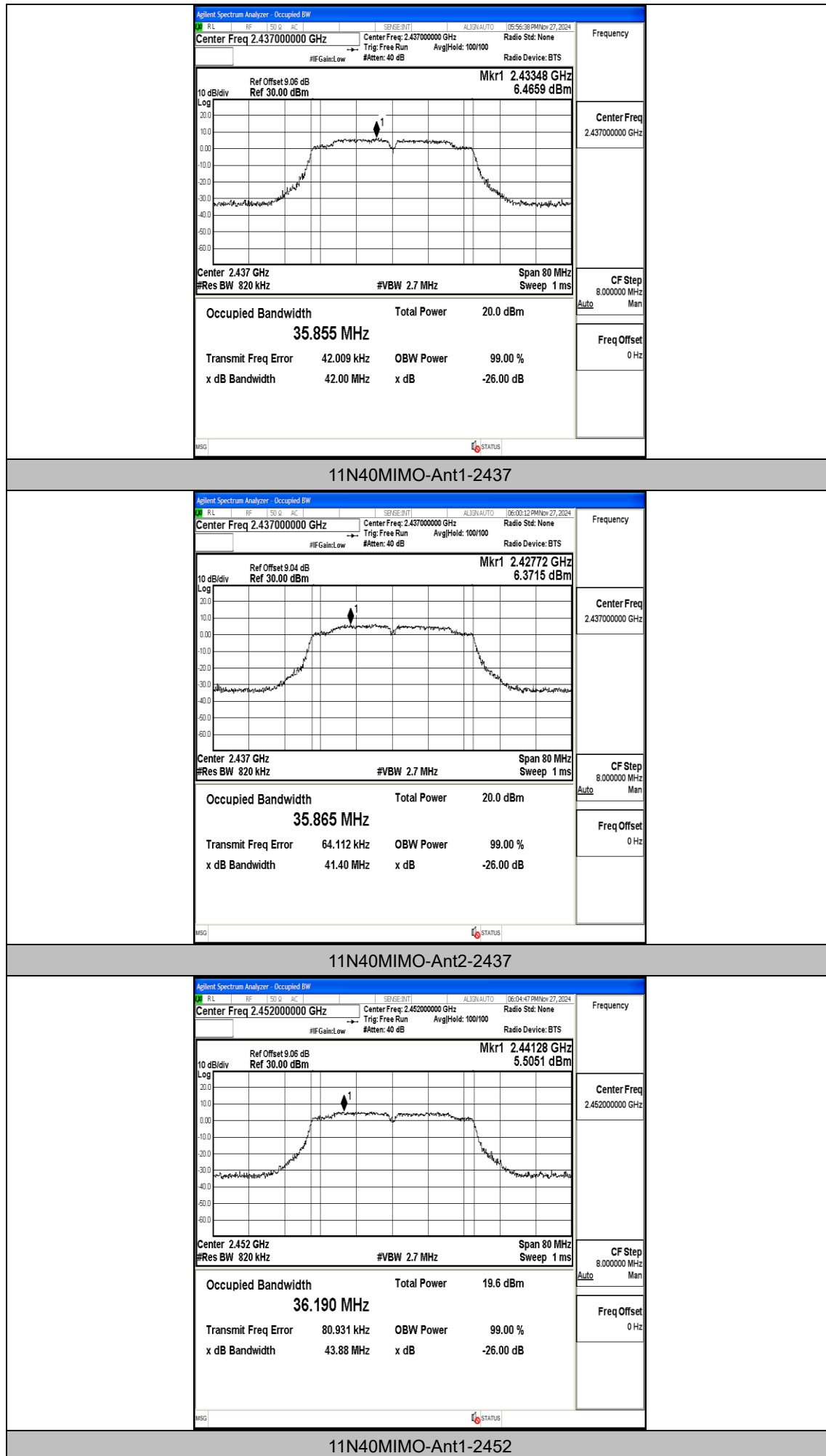


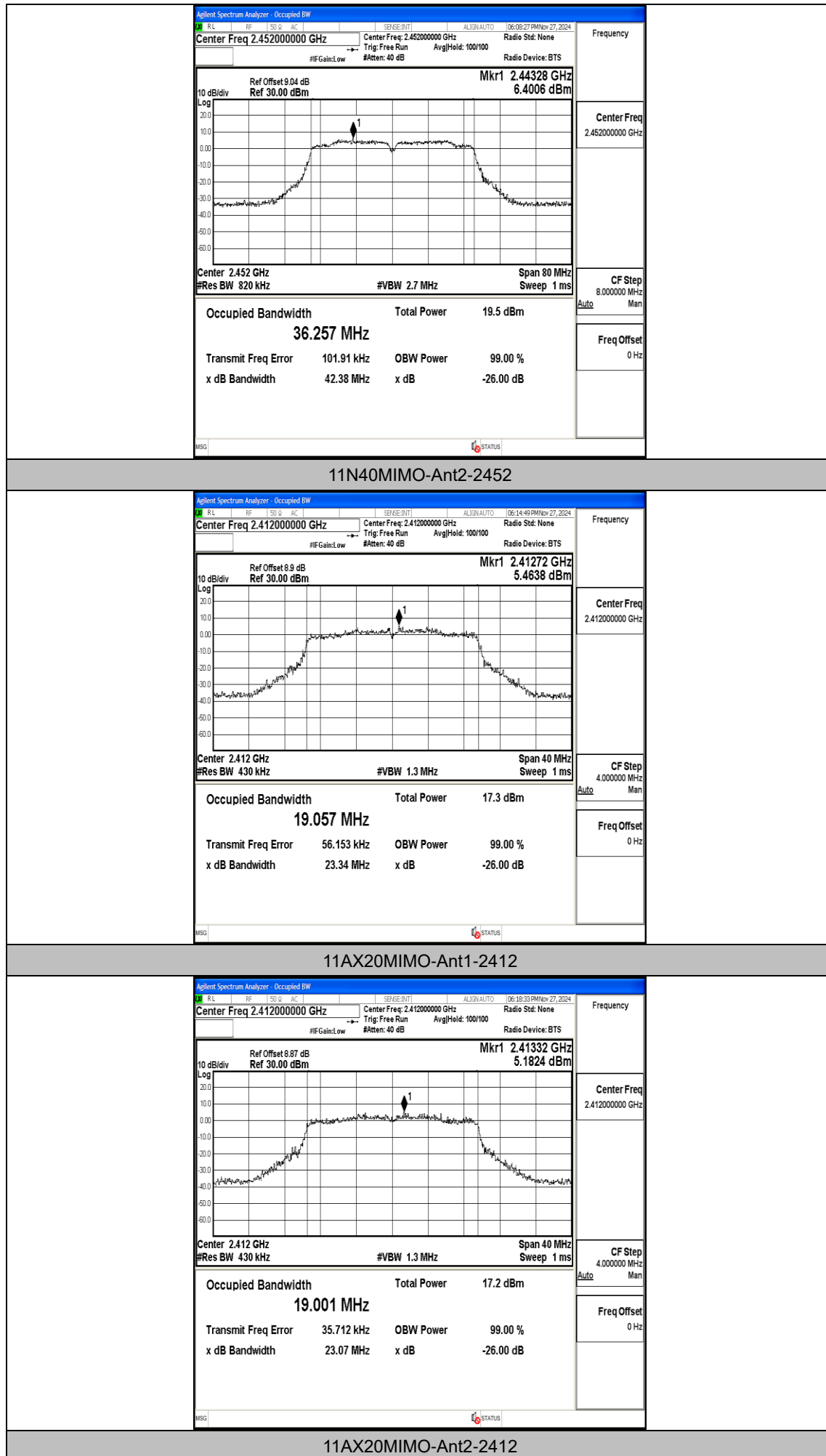


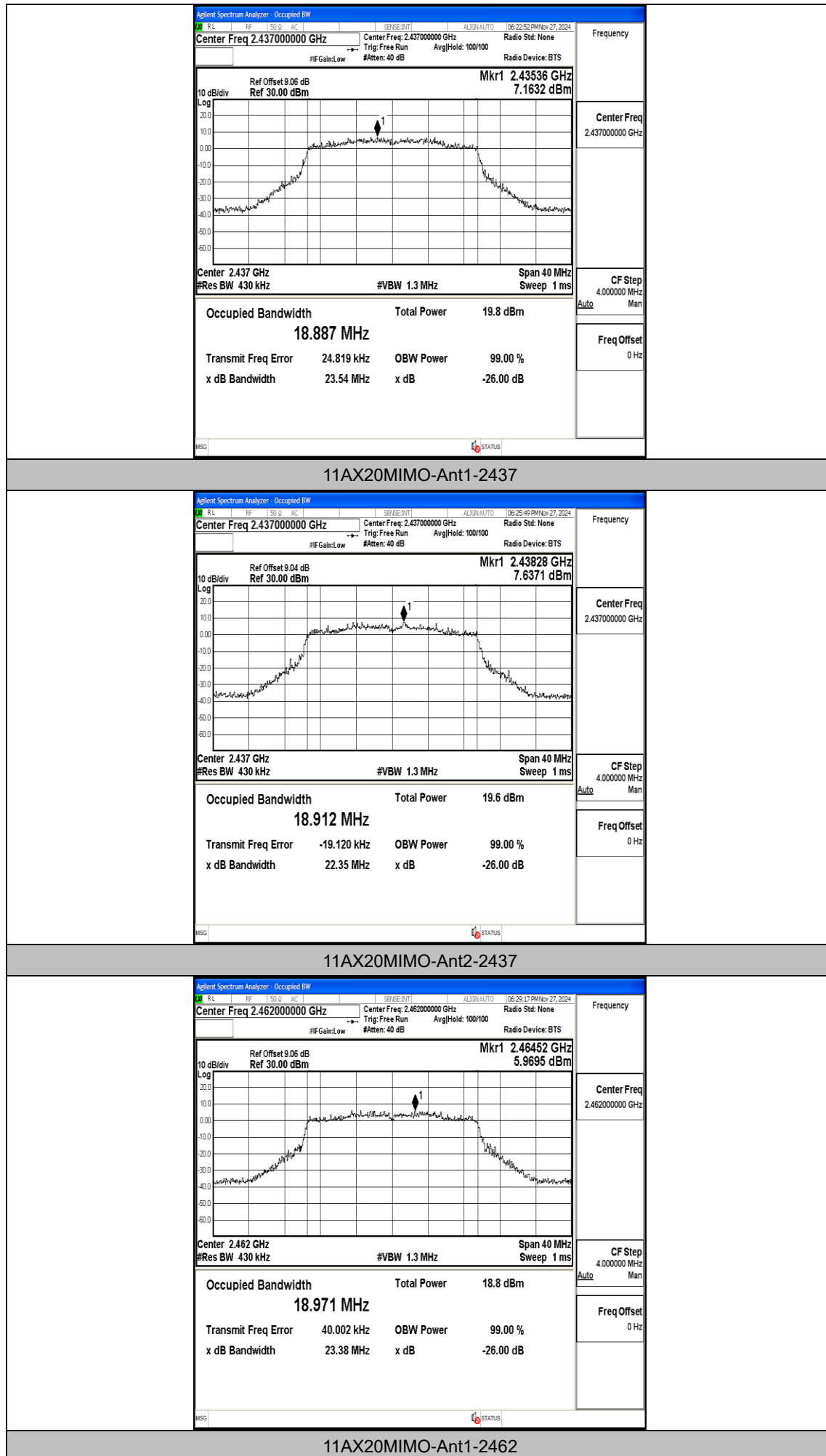


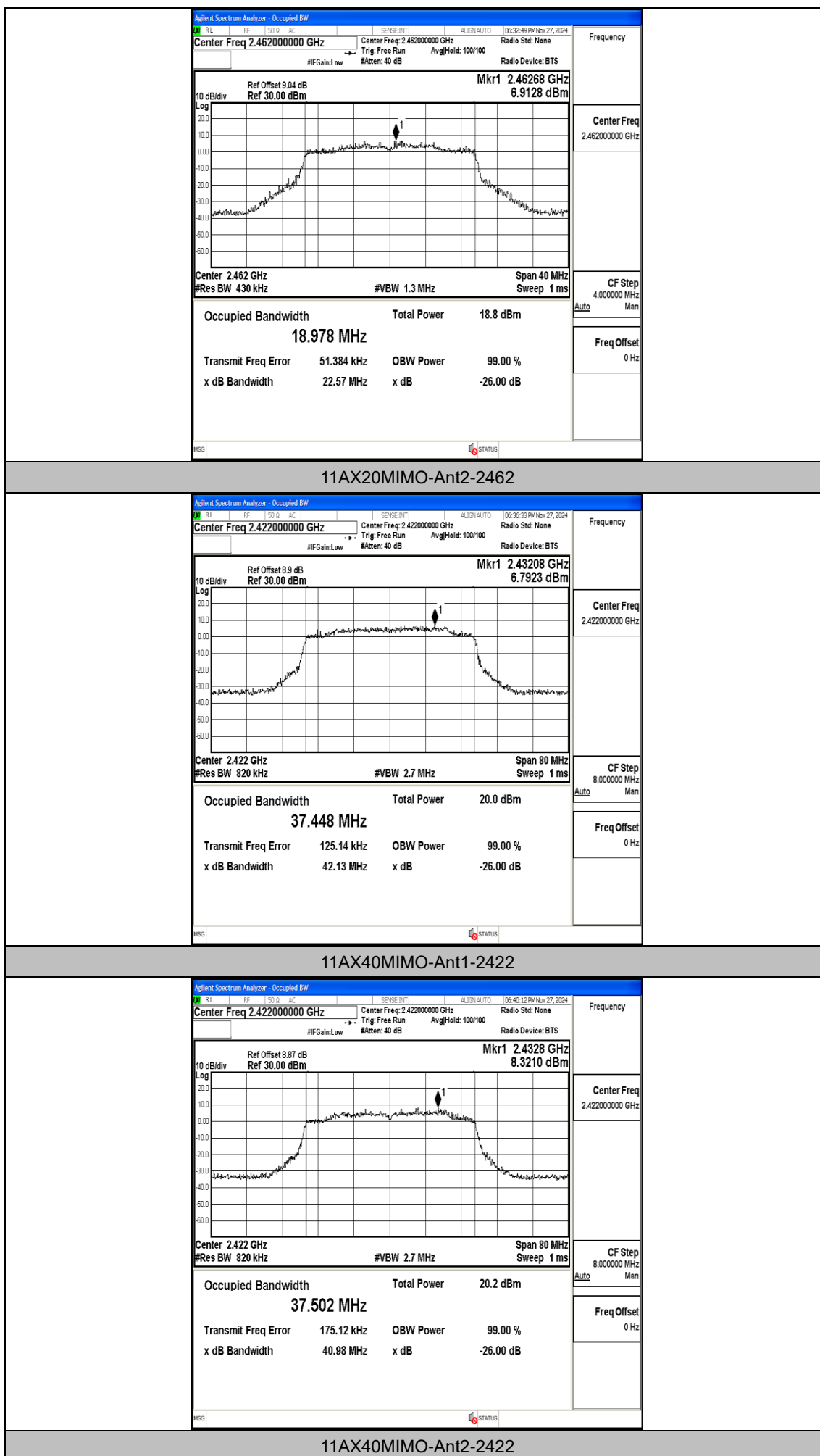


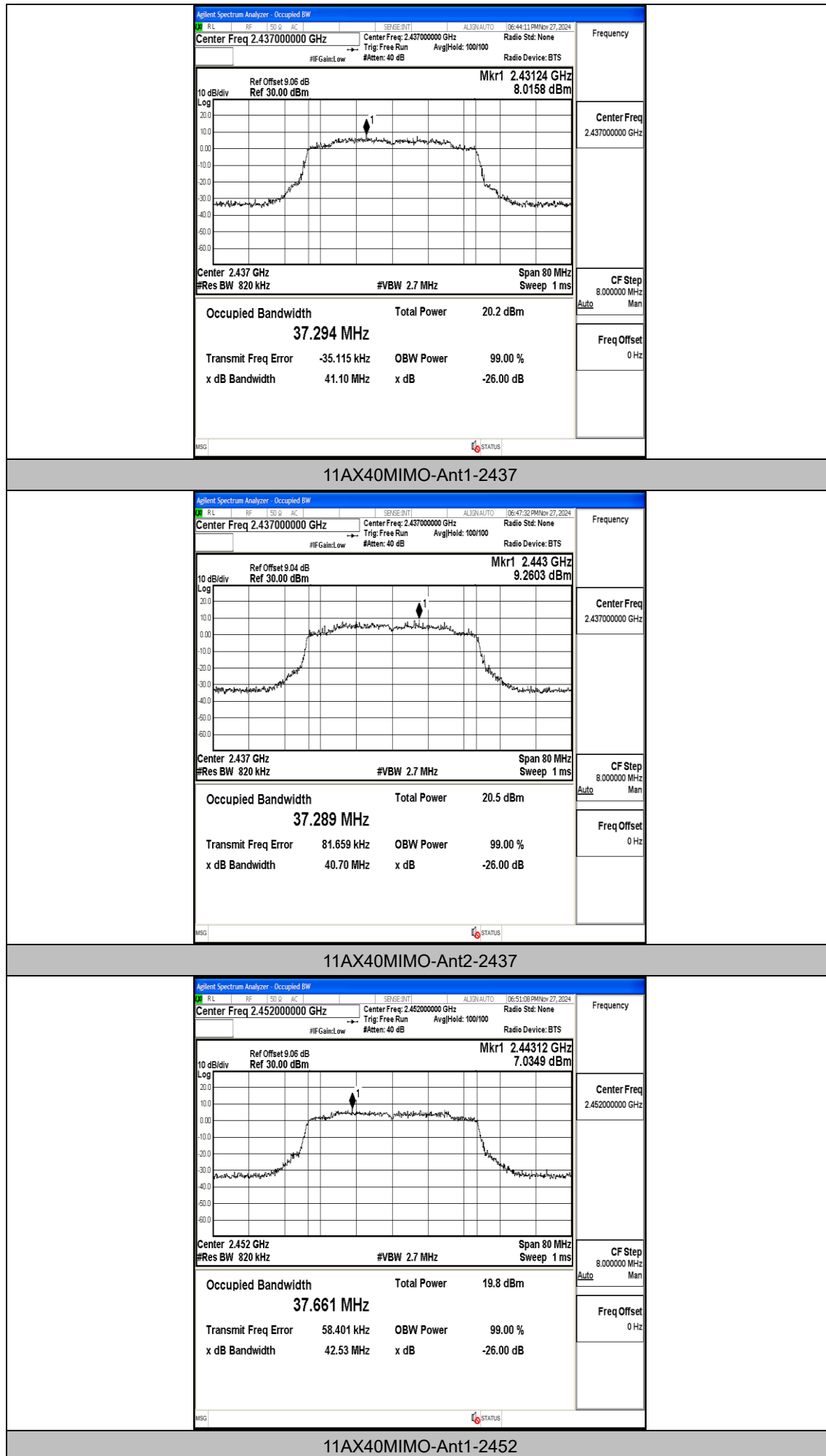


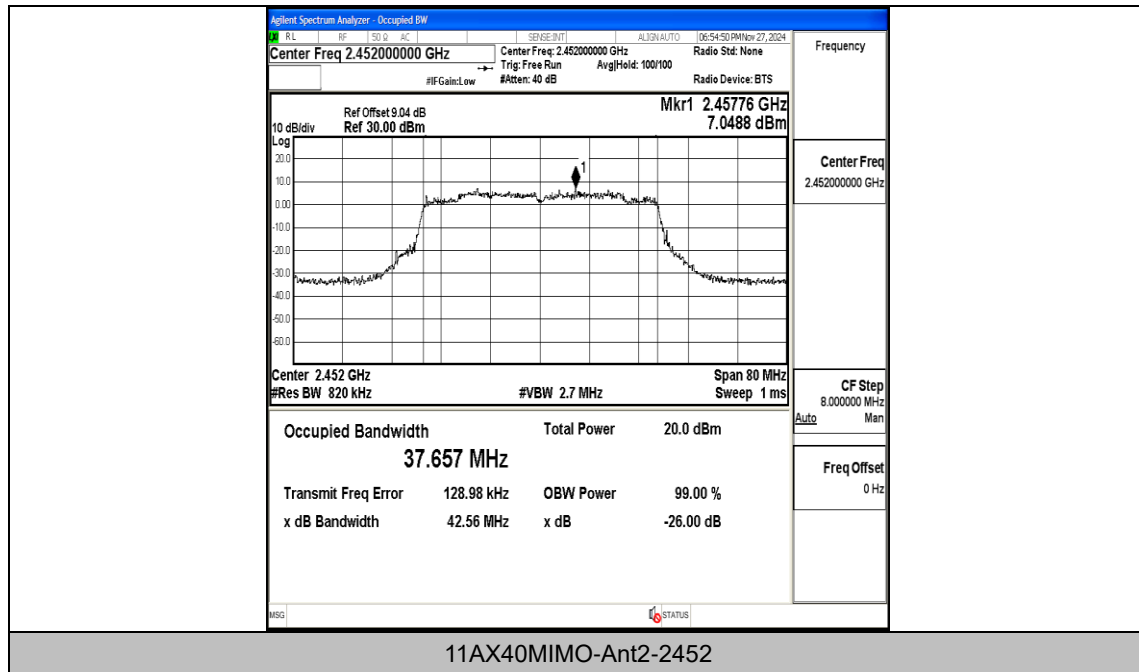












Appendix C: Maximum Average conducted output power

Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Power [dBm]	Conducted Limit [dBm]	Verdict
11B	Ant1	2412	12.28	≤30.00	PASS
11B	Ant2	2412	12.25	≤30.00	PASS
11B	Ant1	2437	13.48	≤30.00	PASS
11B	Ant2	2437	13.52	≤30.00	PASS
11B	Ant1	2462	12.61	≤30.00	PASS
11B	Ant2	2462	12.44	≤30.00	PASS
11G	Ant1	2412	10.57	≤30.00	PASS
11G	Ant2	2412	10.63	≤30.00	PASS
11G	Ant1	2437	12.99	≤30.00	PASS
11G	Ant2	2437	12.95	≤30.00	PASS
11G	Ant1	2462	12.21	≤30.00	PASS
11G	Ant2	2462	11.85	≤30.00	PASS
11N20MIMO	Ant1	2412	10.47	≤30.00	PASS
11N20MIMO	Ant2	2412	10.48	≤30.00	PASS
11N20MIMO	total	2412	13.49	≤30.00	PASS
11N20MIMO	Ant1	2437	12.91	≤30.00	PASS
11N20MIMO	Ant2	2437	12.73	≤30.00	PASS
11N20MIMO	total	2437	15.83	≤30.00	PASS
11N20MIMO	Ant1	2462	11.98	≤30.00	PASS
11N20MIMO	Ant2	2462	11.83	≤30.00	PASS
11N20MIMO	total	2462	14.92	≤30.00	PASS
11N40MIMO	Ant1	2422	12.71	≤30.00	PASS
11N40MIMO	Ant2	2422	12.76	≤30.00	PASS
11N40MIMO	total	2422	15.75	≤30.00	PASS
11N40MIMO	Ant1	2437	12.90	≤30.00	PASS
11N40MIMO	Ant2	2437	13.13	≤30.00	PASS
11N40MIMO	total	2437	16.03	≤30.00	PASS
11N40MIMO	Ant1	2452	12.58	≤30.00	PASS
11N40MIMO	Ant2	2452	12.45	≤30.00	PASS
11N40MIMO	total	2452	15.53	≤30.00	PASS
11AX20MIMO	Ant1	2412	10.45	≤30.00	PASS
11AX20MIMO	Ant2	2412	10.38	≤30.00	PASS
11AX20MIMO	total	2412	13.43	≤30.00	PASS
11AX20MIMO	Ant1	2437	12.83	≤30.00	PASS
11AX20MIMO	Ant2	2437	12.75	≤30.00	PASS
11AX20MIMO	total	2437	15.80	≤30.00	PASS
11AX20MIMO	Ant1	2462	11.88	≤30.00	PASS
11AX20MIMO	Ant2	2462	11.78	≤30.00	PASS

11AX20MIMO	total	2462	14.84	≤30.00	PASS
11AX40MIMO	Ant1	2422	12.37	≤30.00	PASS
11AX40MIMO	Ant2	2422	12.67	≤30.00	PASS
11AX40MIMO	total	2422	15.53	≤30.00	PASS
11AX40MIMO	Ant1	2437	12.77	≤30.00	PASS
11AX40MIMO	Ant2	2437	12.87	≤30.00	PASS
11AX40MIMO	total	2437	15.83	≤30.00	PASS
11AX40MIMO	Ant1	2452	12.31	≤30.00	PASS
11AX40MIMO	Ant2	2452	12.40	≤30.00	PASS
11AX40MIMO	total	2452	15.37	≤30.00	PASS

Note: The Duty Cycle Factor is compensated in the result.

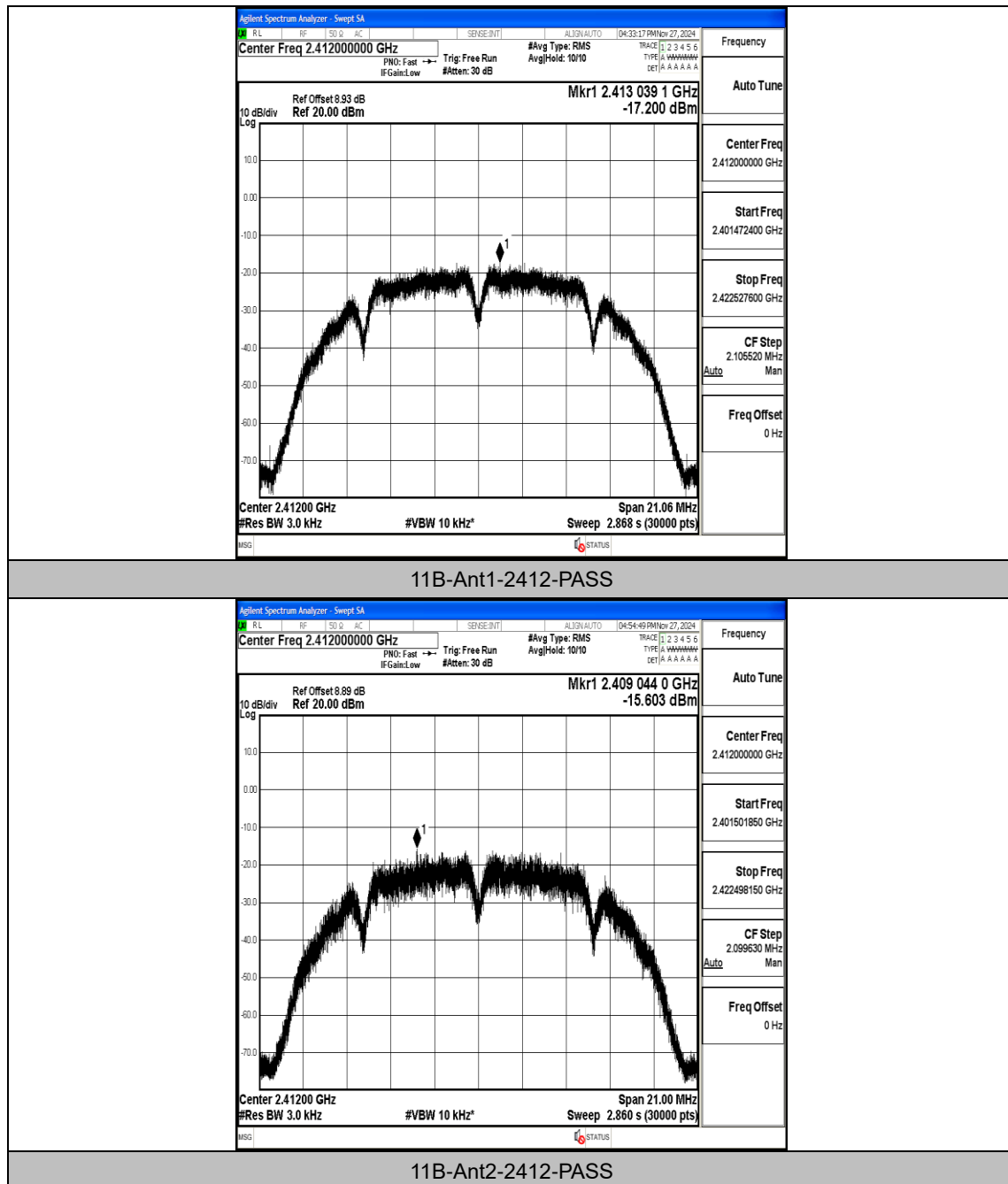
Appendix D: Maximum Average power spectral density

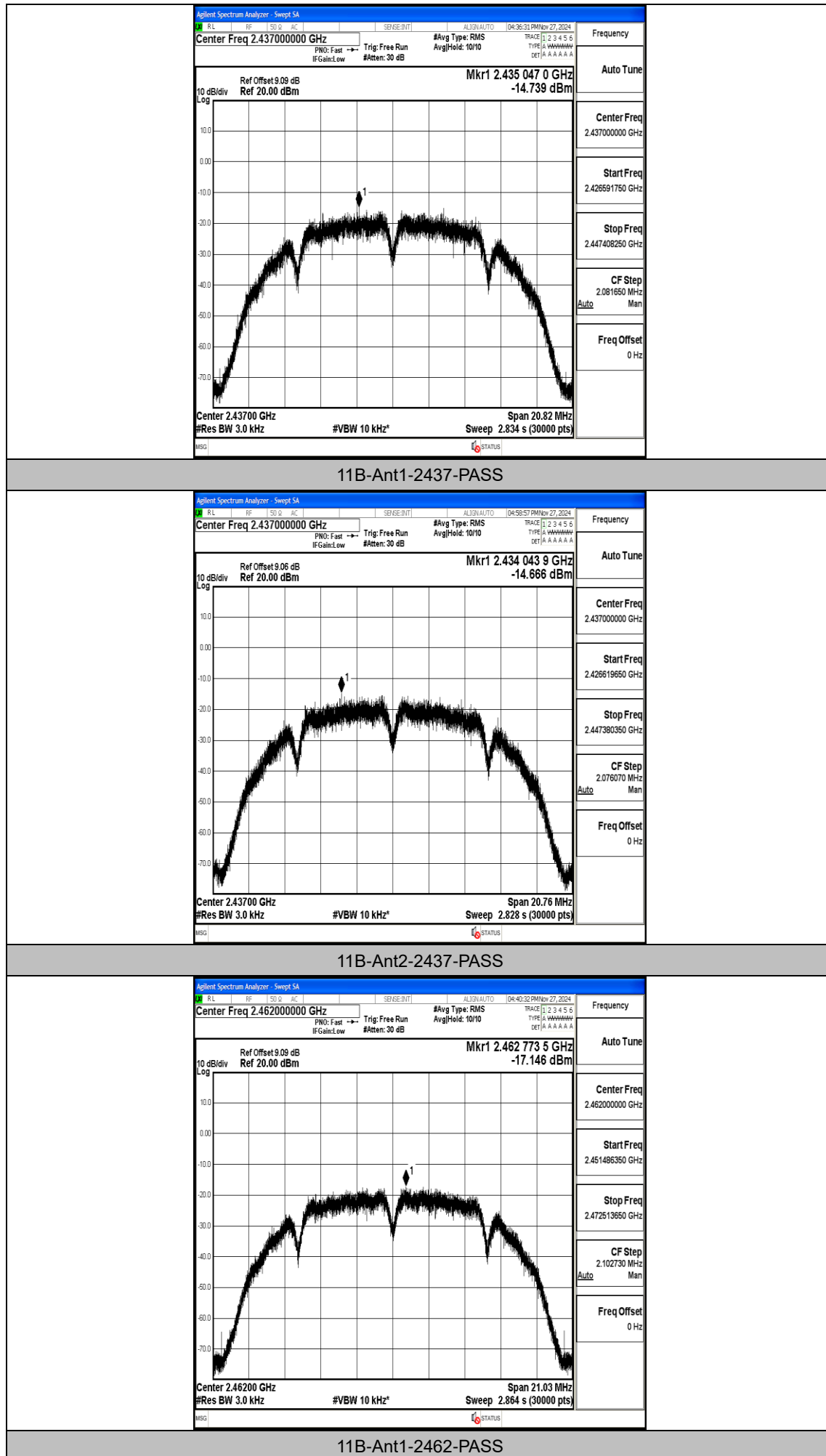
Test Result

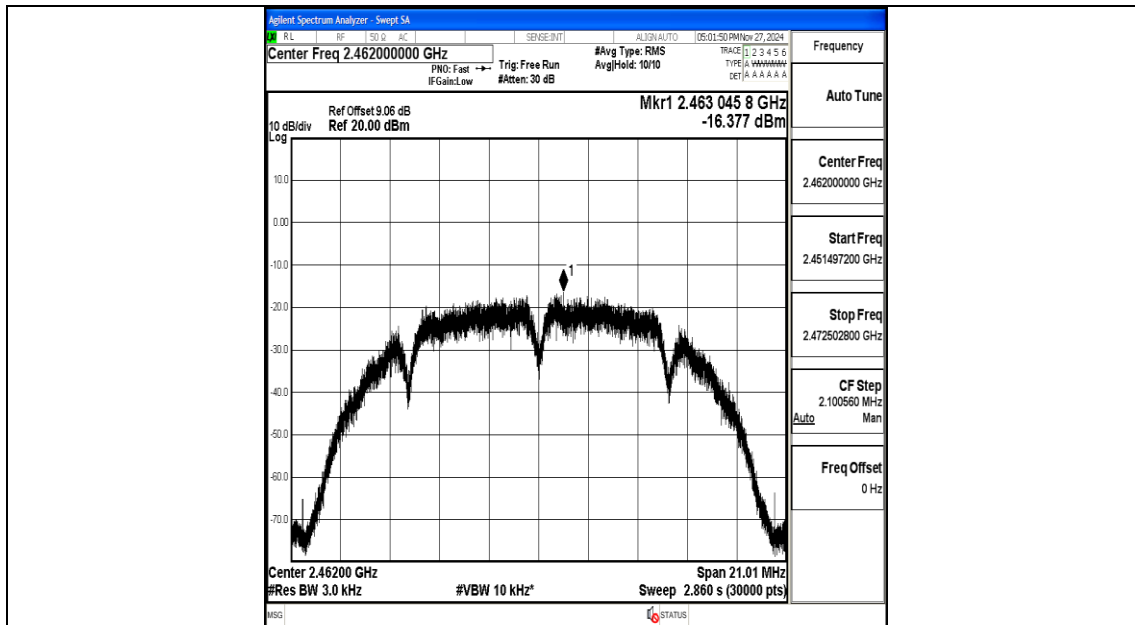
Test Mode	Antenna	Frequency [MHz]	Raw. Data [dBm/3-100kHz]	Dc. Factor	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-17.23	0.03	-17.20	≤8.00	PASS
11B	Ant2	2412	-15.62	0.02	-15.60	≤8.00	PASS
11B	Ant1	2437	-14.77	0.03	-14.74	≤8.00	PASS
11B	Ant2	2437	-14.69	0.02	-14.67	≤8.00	PASS
11B	Ant1	2462	-17.18	0.03	-17.15	≤8.00	PASS
11B	Ant2	2462	-16.40	0.02	-16.38	≤8.00	PASS
11G	Ant1	2412	-19.46	0.79	-18.67	≤8.00	PASS
11G	Ant2	2412	-19.98	1.01	-18.97	≤8.00	PASS
11G	Ant1	2437	-16.94	0.83	-16.11	≤8.00	PASS
11G	Ant2	2437	-17.07	0.79	-16.28	≤8.00	PASS
11G	Ant1	2462	-18.80	1.01	-17.79	≤8.00	PASS
11G	Ant2	2462	-18.07	0.79	-17.28	≤8.00	PASS
11N20MI MO	Ant1	2412	-19.67	0.46	-19.21	≤8.00	PASS
11N20MI MO	Ant2	2412	-19.39	0.58	-18.81	≤8.00	PASS
11N20MI MO	total	2412	---	---	-16.00	≤8.00	PASS
11N20MI MO	Ant1	2437	-17.43	0.47	-16.96	≤8.00	PASS
11N20MI MO	Ant2	2437	-17.04	0.46	-16.58	≤8.00	PASS
11N20MI MO	total	2437	---	---	-13.76	≤8.00	PASS
11N20MI MO	Ant1	2462	-18.35	0.58	-17.77	≤8.00	PASS
11N20MI MO	Ant2	2462	-18.25	0.58	-17.67	≤8.00	PASS
11N20MI MO	total	2462	---	---	-14.71	≤8.00	PASS
11N40MI MO	Ant1	2422	-20.95	0.48	-20.47	≤8.00	PASS
11N40MI MO	Ant2	2422	-20.17	0.60	-19.57	≤8.00	PASS
11N40MI MO	total	2422	---	---	-16.99	≤8.00	PASS
11N40MI MO	Ant1	2437	-18.90	0.48	-18.42	≤8.00	PASS
11N40MI MO	Ant2	2437	-19.98	0.60	-19.38	≤8.00	PASS
11N40MI MO	total	2437	---	---	-15.86	≤8.00	PASS

MO							
11N40MI MO	Ant1	2452	-20.95	0.60	-20.35	≤8.00	PASS
11N40MI MO	Ant2	2452	-21.15	0.48	-20.67	≤8.00	PASS
11N40MI MO	total	2452	---	---	-17.50	≤8.00	PASS
11AX20M IMO	Ant1	2412	-19.29	0.76	-18.53	≤8.00	PASS
11AX20M IMO	Ant2	2412	-18.74	0.76	-17.98	≤8.00	PASS
11AX20M IMO	total	2412	---	---	-15.24	≤8.00	PASS
11AX20M IMO	Ant1	2437	-17.08	0.76	-16.32	≤8.00	PASS
11AX20M IMO	Ant2	2437	-16.11	0.76	-15.35	≤8.00	PASS
11AX20M IMO	total	2437	---	---	-12.80	≤8.00	PASS
11AX20M IMO	Ant1	2462	-18.30	0.76	-17.54	≤8.00	PASS
11AX20M IMO	Ant2	2462	-17.09	0.76	-16.33	≤8.00	PASS
11AX20M IMO	total	2462	---	---	-13.88	≤8.00	PASS
11AX40M IMO	Ant1	2422	-21.31	0.87	-20.44	≤8.00	PASS
11AX40M IMO	Ant2	2422	-20.46	1.06	-19.40	≤8.00	PASS
11AX40M IMO	total	2422	---	---	-16.88	≤8.00	PASS
11AX40M IMO	Ant1	2437	-20.19	1.06	-19.13	≤8.00	PASS
11AX40M IMO	Ant2	2437	-19.73	1.06	-18.67	≤8.00	PASS
11AX40M IMO	total	2437	---	---	-15.88	≤8.00	PASS
11AX40M IMO	Ant1	2452	-20.96	1.06	-19.90	≤8.00	PASS
11AX40M IMO	Ant2	2452	-21.20	1.06	-20.14	≤8.00	PASS
11AX40M IMO	total	2452	---	---	-17.01	≤8.00	PASS

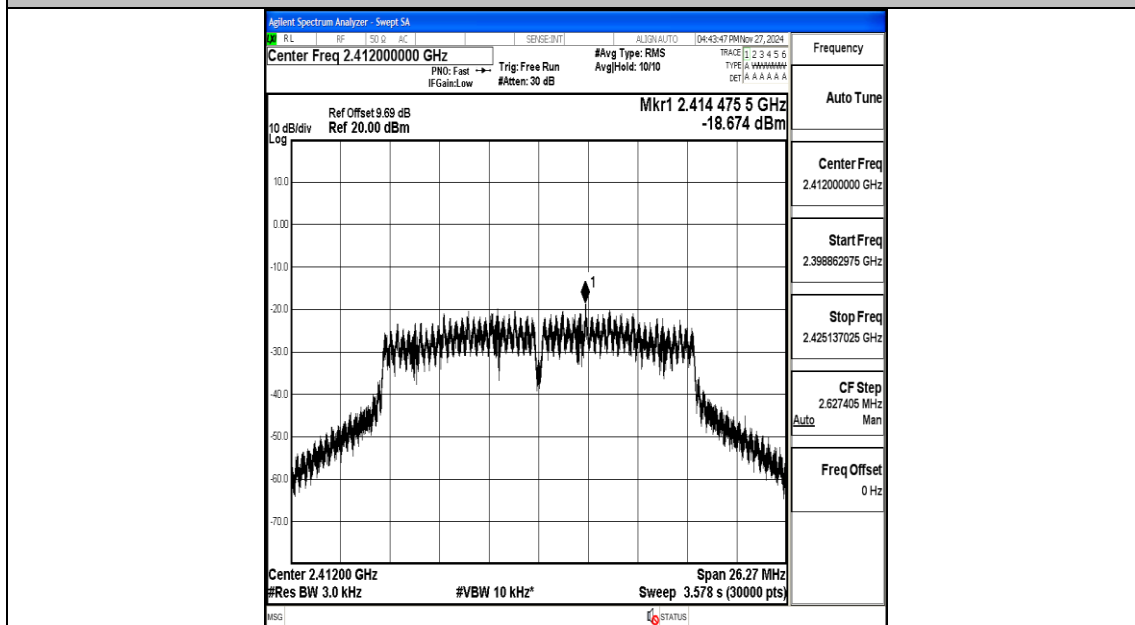
Test Graphs



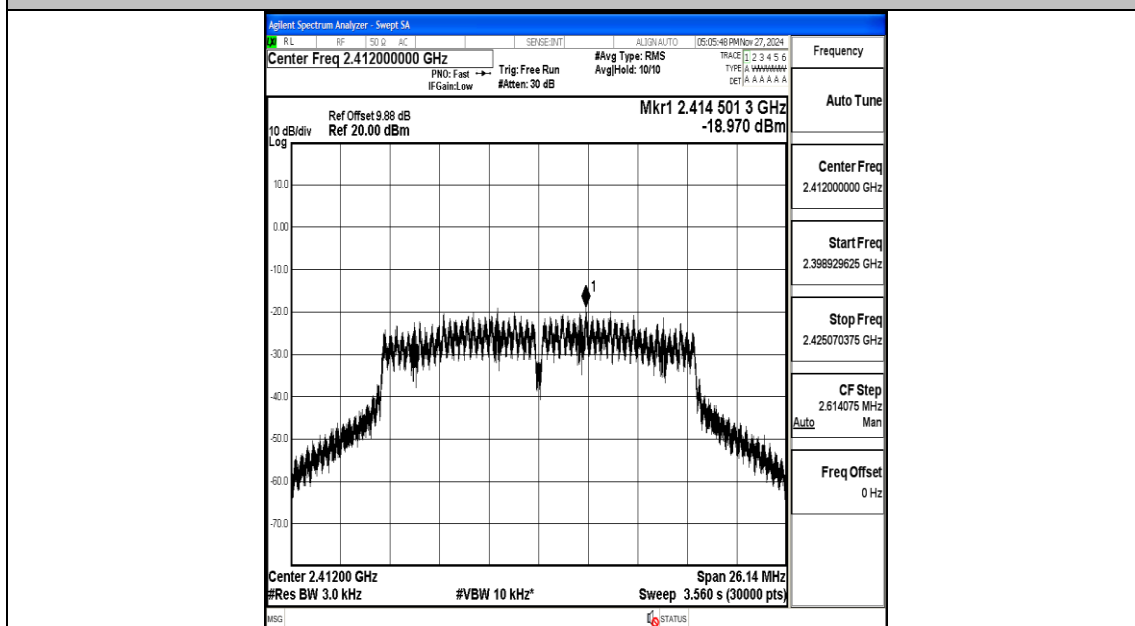




11B-Ant2-2462-PASS



11G-Ant1-2412-PASS



11G-Ant2-2412-PASS

