

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

Product Name: Automatic Pet Feeder

Trade Mark: /

Test Model: PT10

FCC ID: 2AMVV-PT10

Environmental Conditions

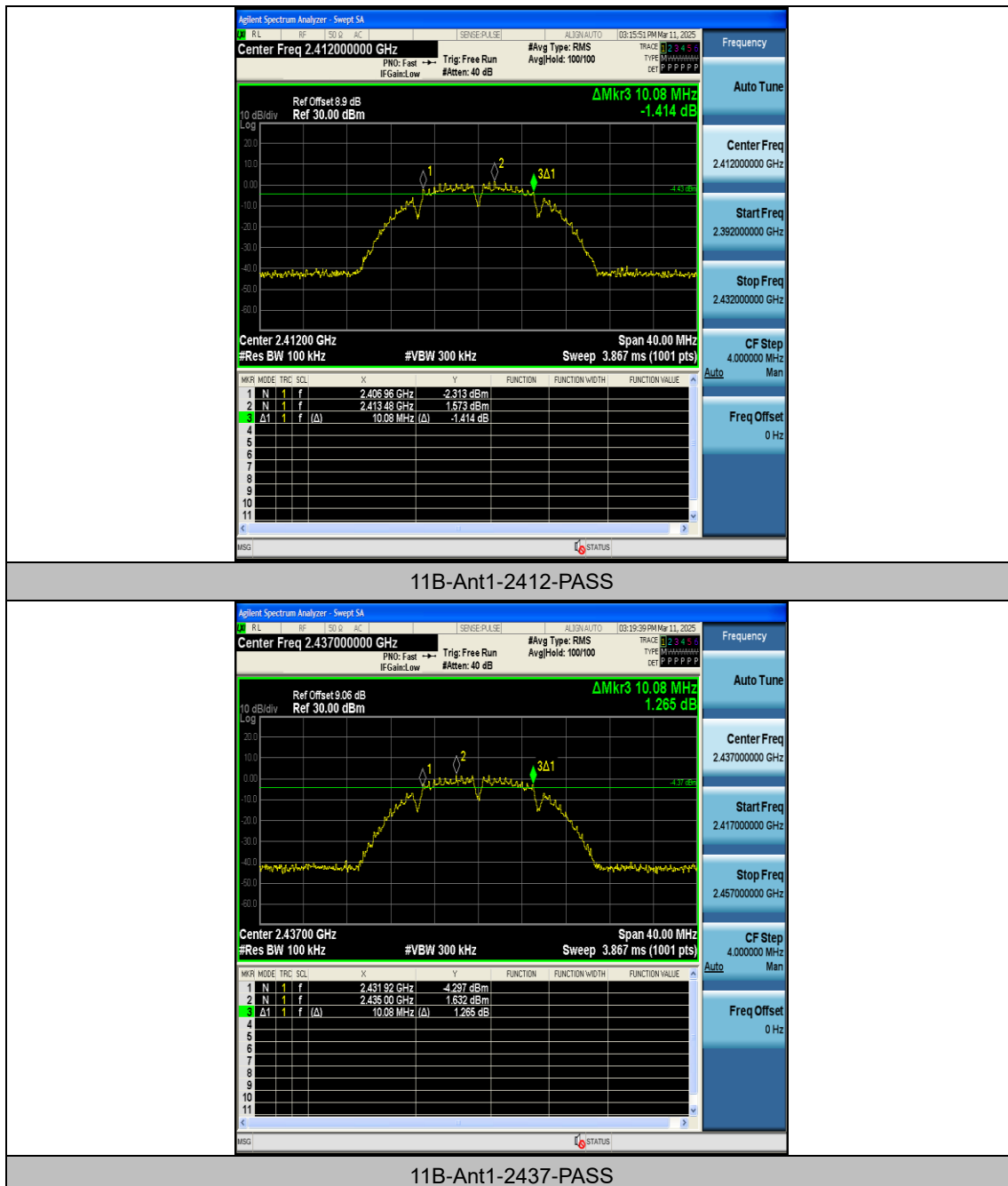
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	10.080	2406.960	2417.040	0.5	PASS
11B	Ant1	2437	10.080	2431.920	2442.000	0.5	PASS
11B	Ant1	2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant1	2412	15.280	2404.200	2419.480	0.5	PASS
11G	Ant1	2437	16.080	2428.840	2444.920	0.5	PASS
11G	Ant1	2462	15.240	2454.640	2469.880	0.5	PASS
11N20SISO	Ant1	2412	17.160	2403.240	2420.400	0.5	PASS
11N20SISO	Ant1	2437	15.920	2428.840	2444.760	0.5	PASS
11N20SISO	Ant1	2462	17.040	2453.480	2470.520	0.5	PASS
11N40SISO	Ant1	2422	35.120	2404.400	2439.520	0.5	PASS
11N40SISO	Ant1	2437	35.040	2419.480	2454.520	0.5	PASS
11N40SISO	Ant1	2452	35.120	2434.080	2469.200	0.5	PASS
11AX20SISO	Ant1	2412	18.280	2403.000	2421.280	0.5	PASS
11AX20SISO	Ant1	2437	15.800	2428.840	2444.640	0.5	PASS
11AX20SISO	Ant1	2462	17.560	2452.960	2470.520	0.5	PASS
11AX40SISO	Ant1	2422	36.880	2404.080	2440.960	0.5	PASS
11AX40SISO	Ant1	2437	24.000	2422.680	2446.680	0.5	PASS
11AX40SISO	Ant1	2452	35.520	2433.840	2469.360	0.5	PASS

Test Graphs





11B-Ant1-2462-PASS



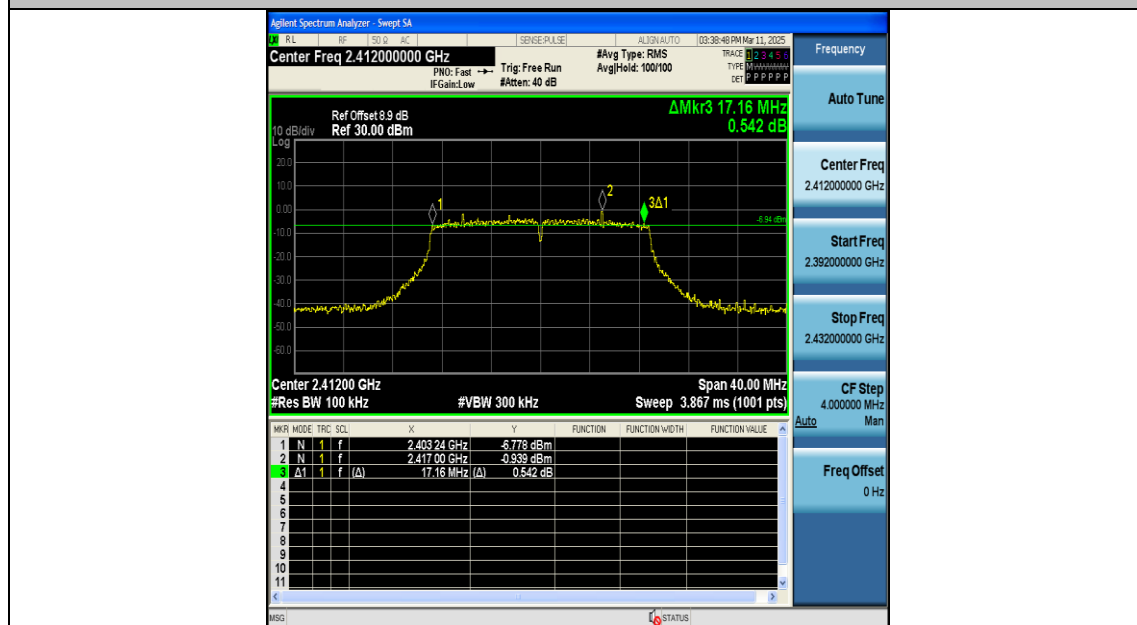
11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



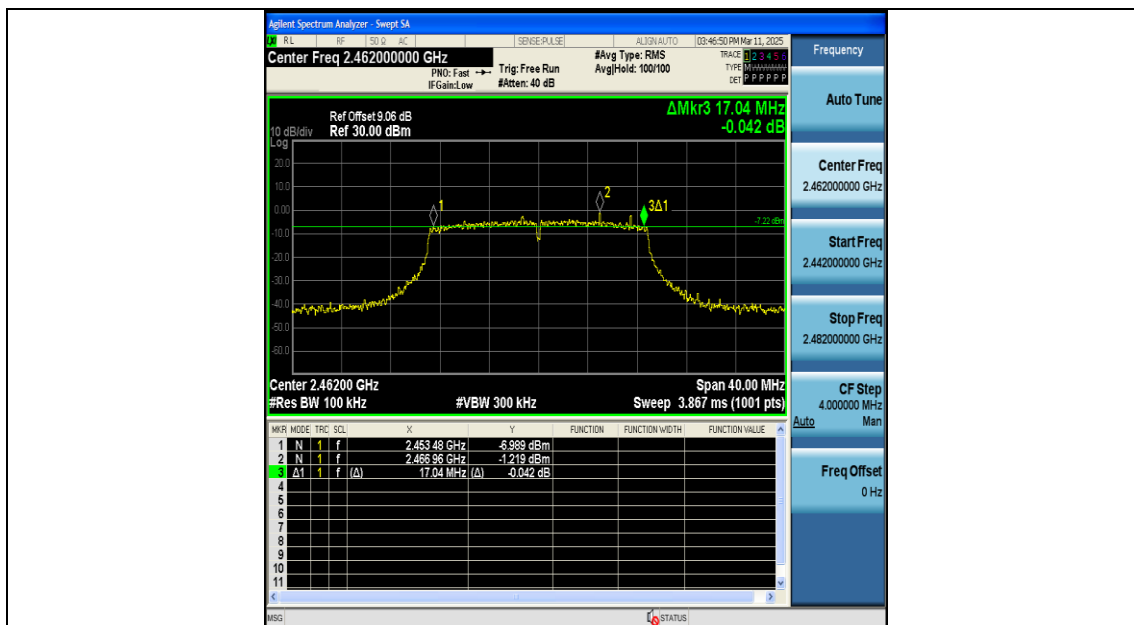
11G-Ant1-2462-PASS



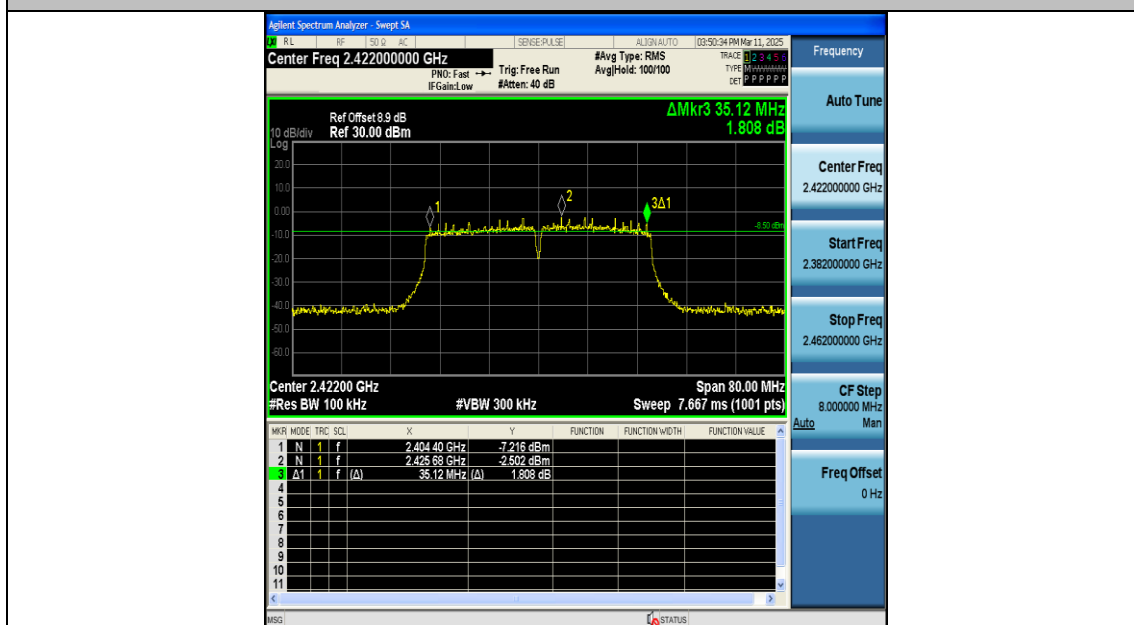
11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



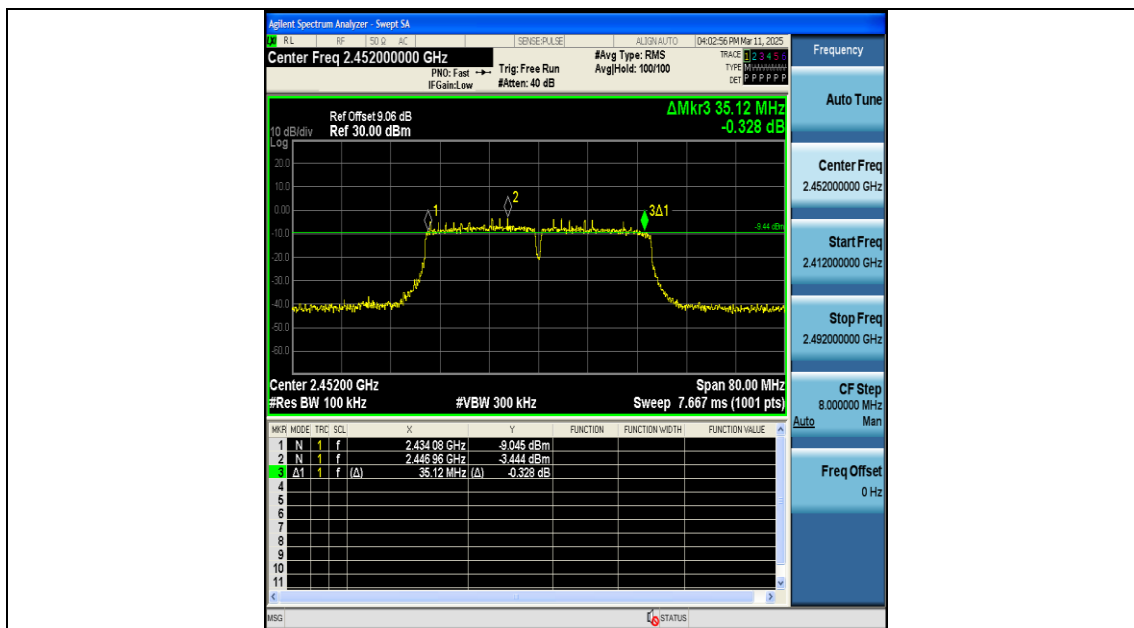
11N20SISO-Ant1-2462-PASS



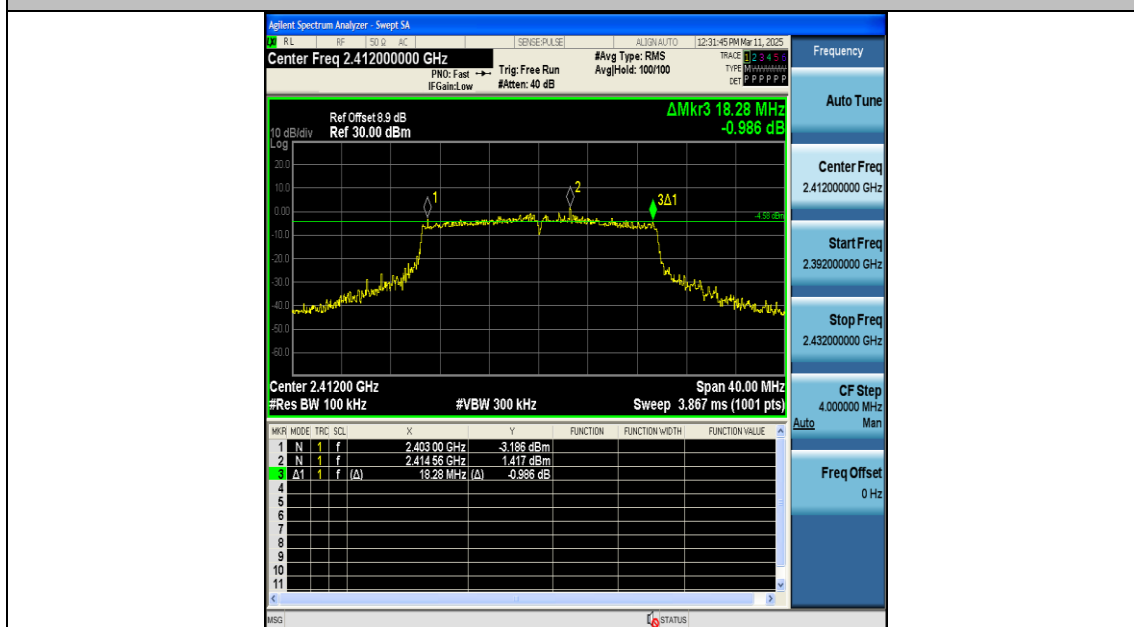
11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-PASS



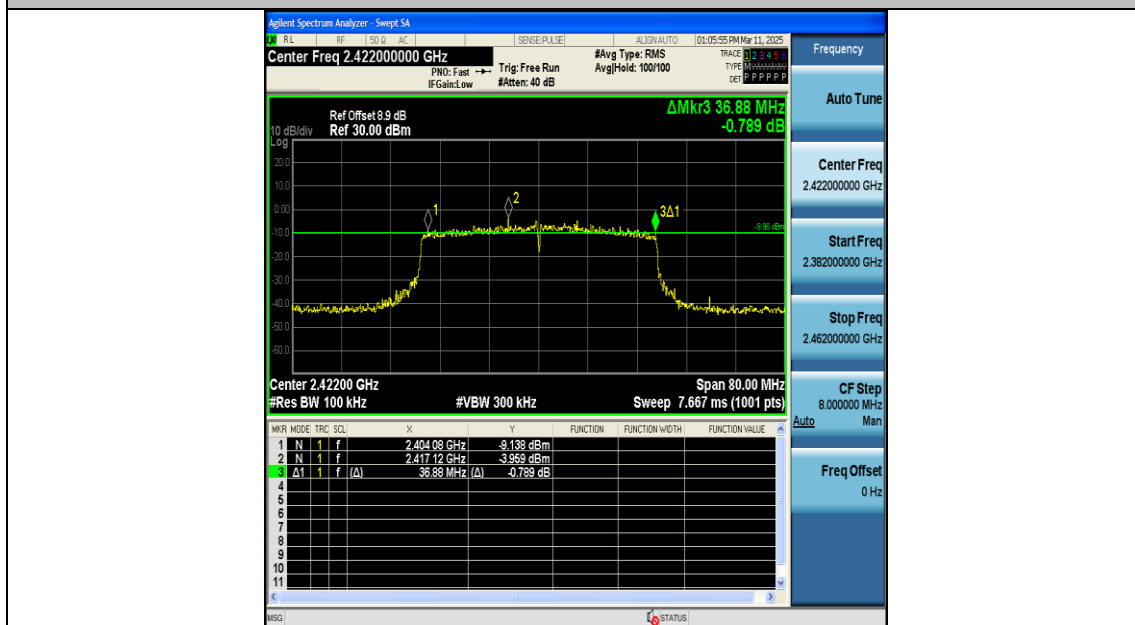
11AX20SISO-Ant1-2412-PASS



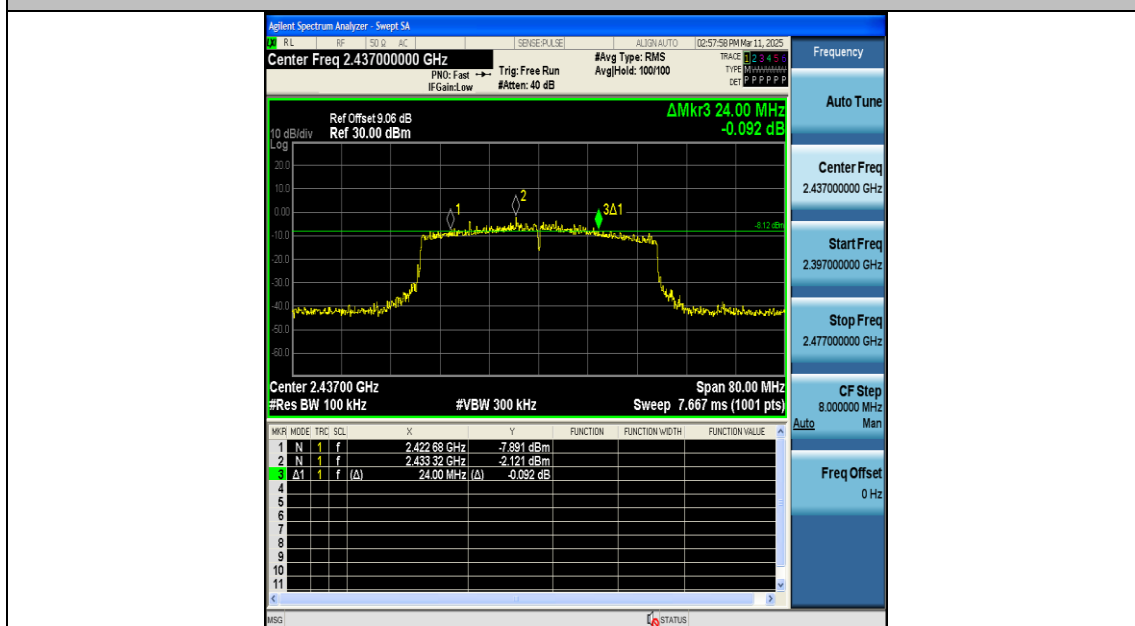
11AX20SISO-Ant1-2437-PASS



11AX20SISO-Ant1-2462-PASS



11AX40SISO-Ant1-2422-PASS



11AX40SISO-Ant1-2437-PASS

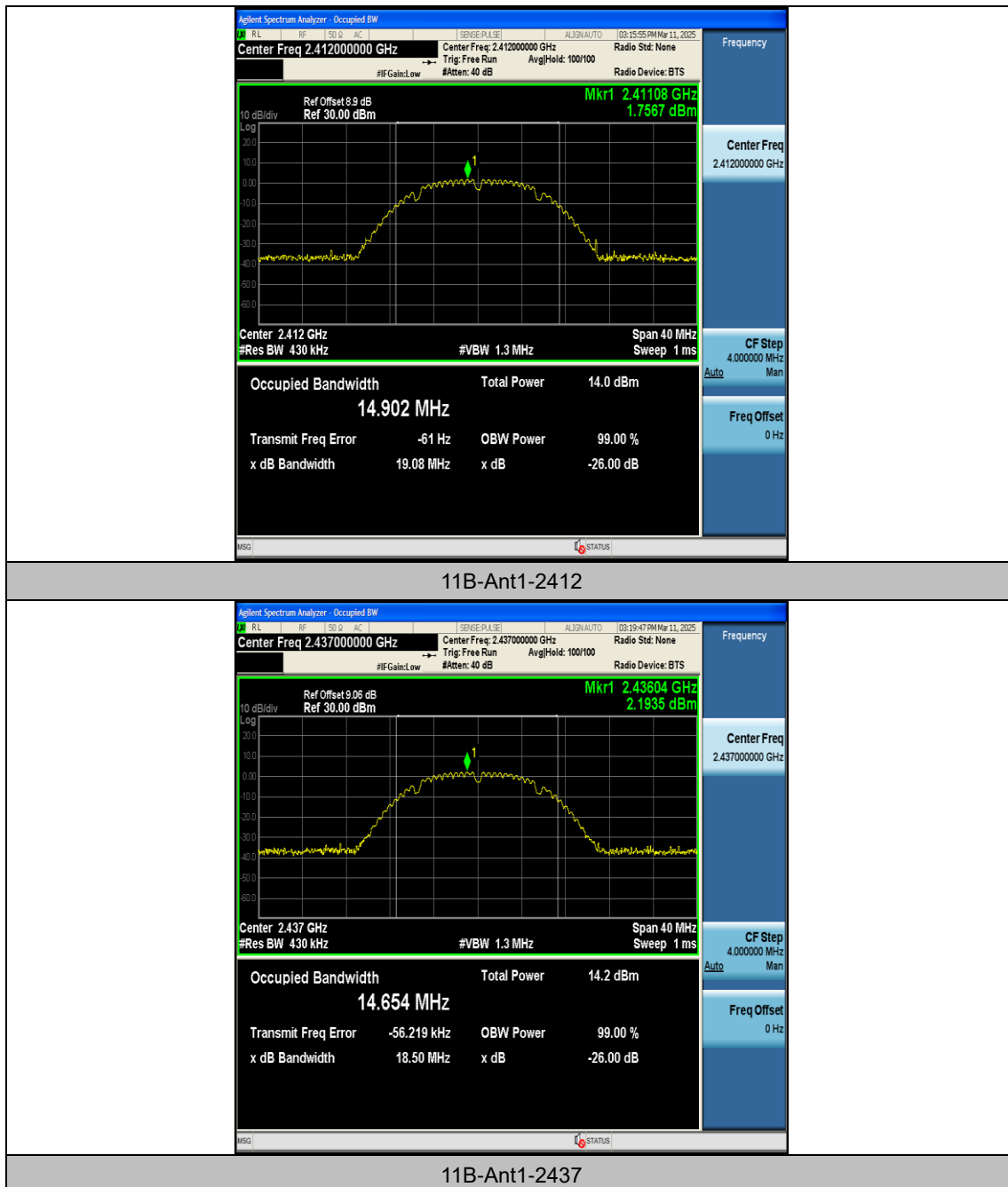


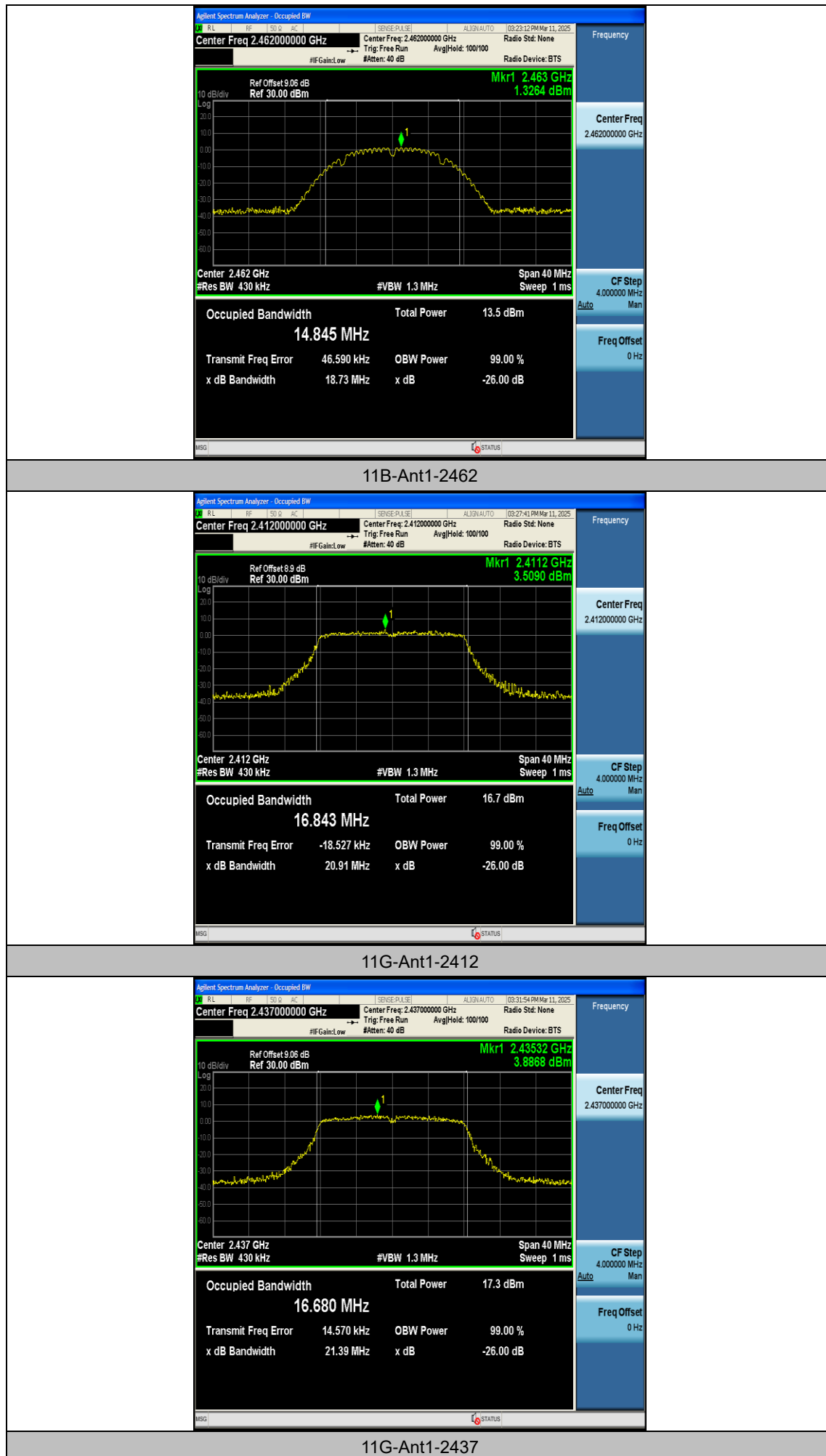
Appendix B: Occupied Channel Bandwidth

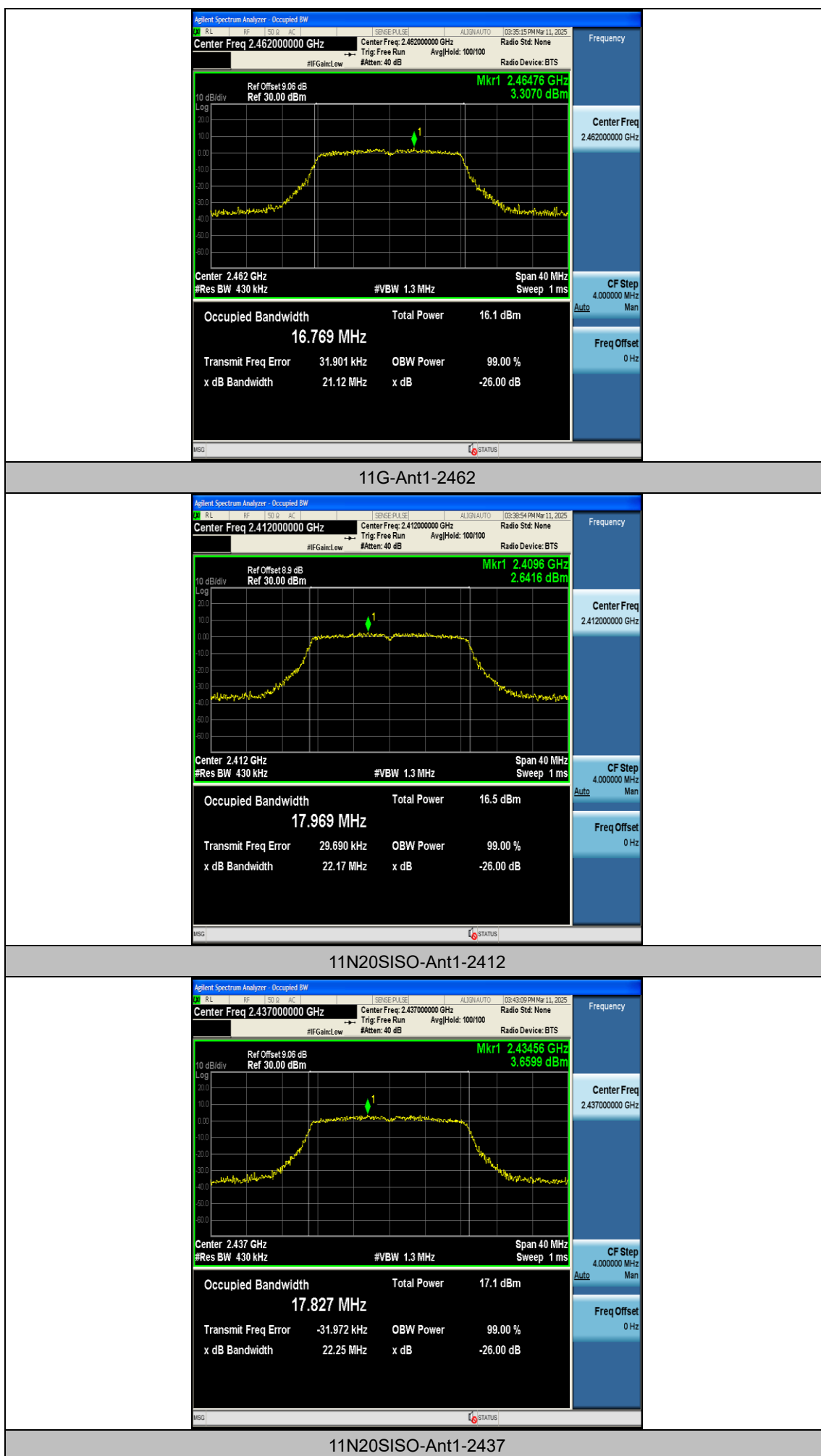
Test Result

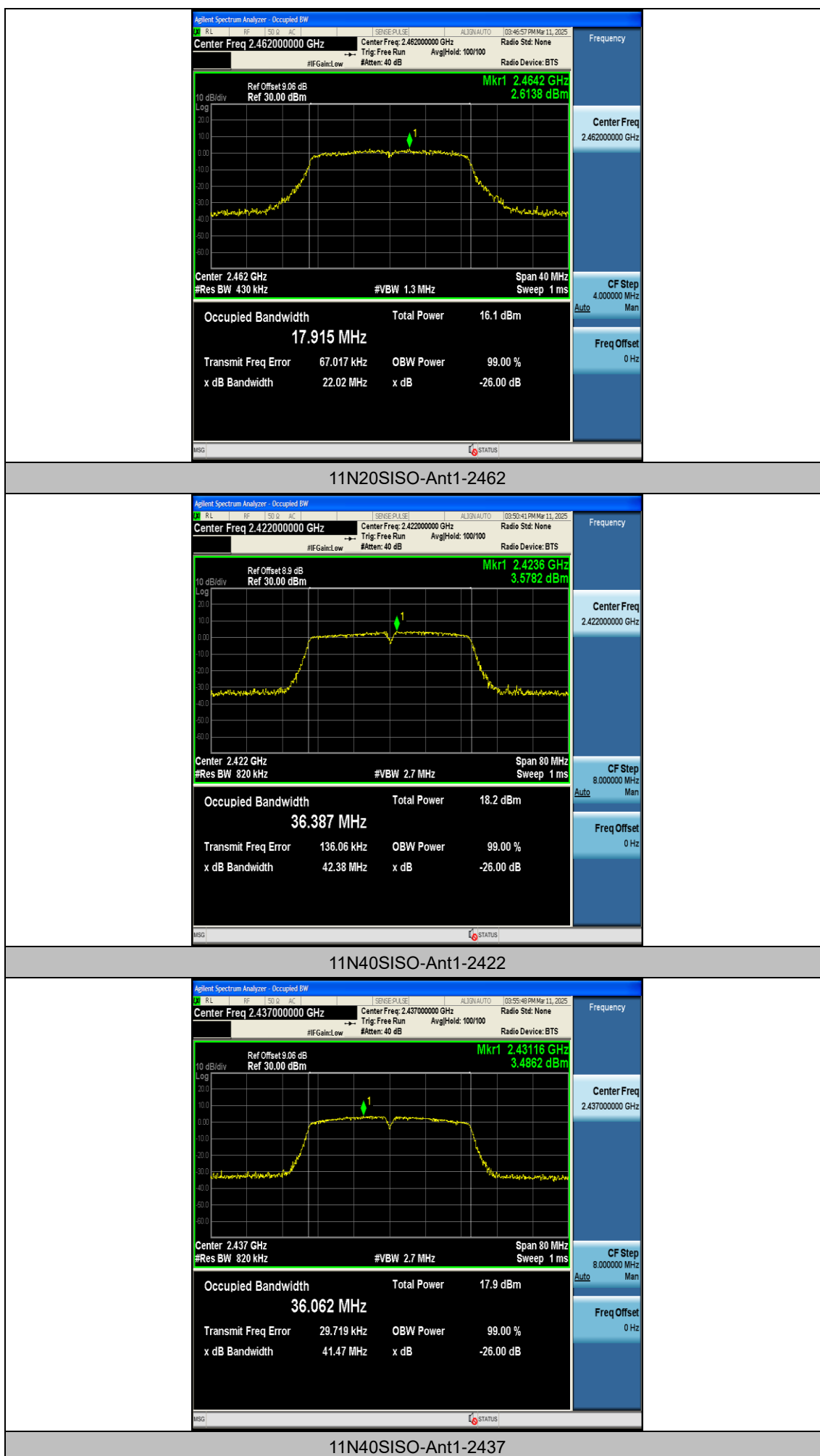
Test Mode	Antenna	Channel Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	14.902	2404.5489	2419.4509	---	---
11B	Ant1	2437	14.654	2429.6168	2444.2708	---	---
11B	Ant1	2462	14.845	2454.6241	2469.4691	---	---
11G	Ant1	2412	16.843	2403.5600	2420.4030	---	---
11G	Ant1	2437	16.680	2428.6746	2445.3546	---	---
11G	Ant1	2462	16.769	2453.6474	2470.4164	---	---
11N20SISO	Ant1	2412	17.969	2403.0452	2421.0142	---	---
11N20SISO	Ant1	2437	17.827	2428.0545	2445.8815	---	---
11N20SISO	Ant1	2462	17.915	2453.1095	2471.0245	---	---
11N40SISO	Ant1	2422	36.387	2403.9426	2440.3296	---	---
11N40SISO	Ant1	2437	36.062	2418.9987	2455.0607	---	---
11N40SISO	Ant1	2452	36.377	2433.8160	2470.1930	---	---
11AX20SISO	Ant1	2412	19.083	2402.5348	2421.6178	---	---
11AX20SISO	Ant1	2437	18.950	2427.5722	2446.5222	---	---
11AX20SISO	Ant1	2462	19.109	2452.4961	2471.6051	---	---
11AX40SISO	Ant1	2422	37.873	2403.1890	2441.0620	---	---
11AX40SISO	Ant1	2437	37.558	2418.2532	2455.8112	---	---
11AX40SISO	Ant1	2452	37.821	2433.1201	2470.9411	---	---

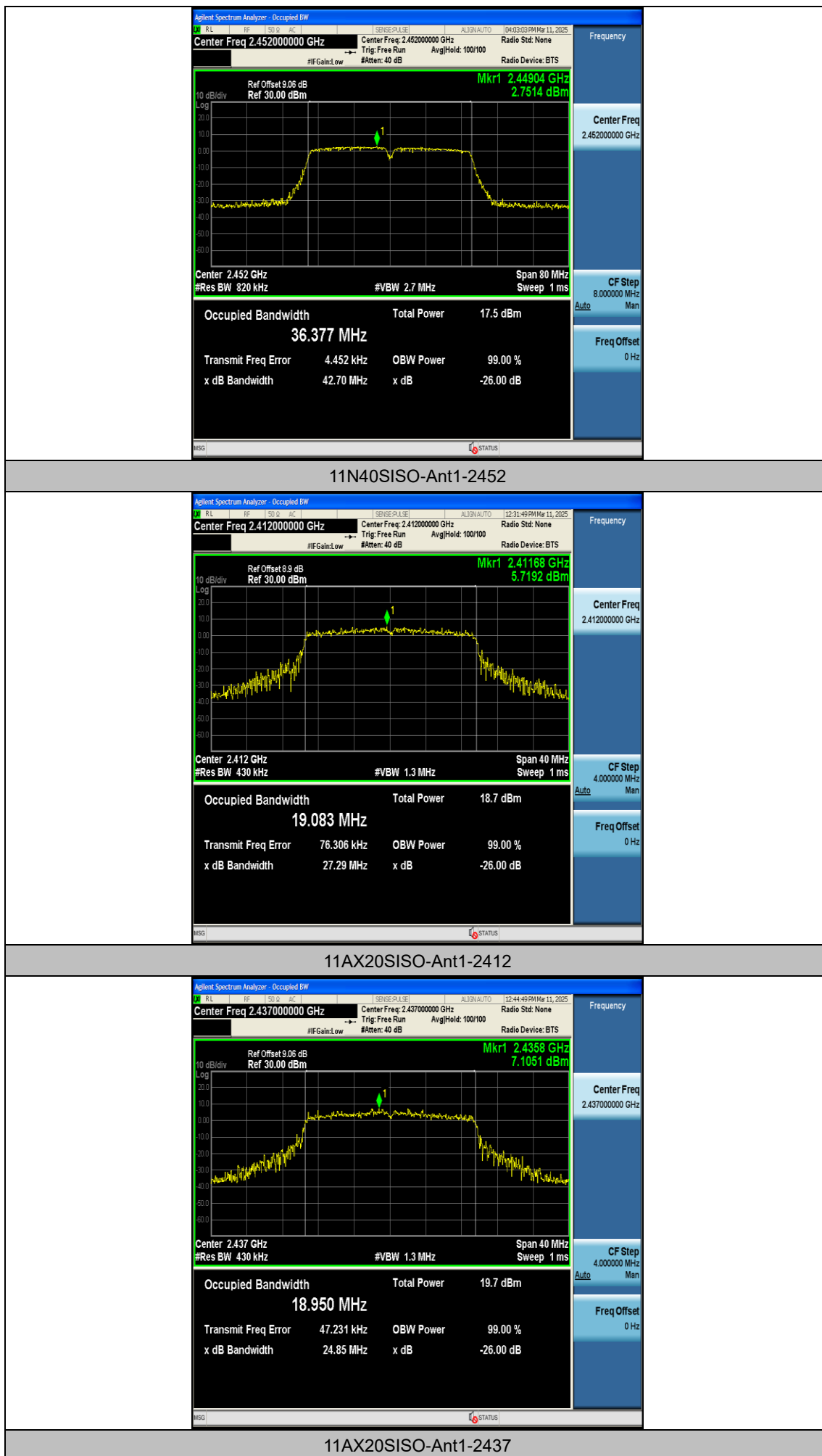
Test Graphs

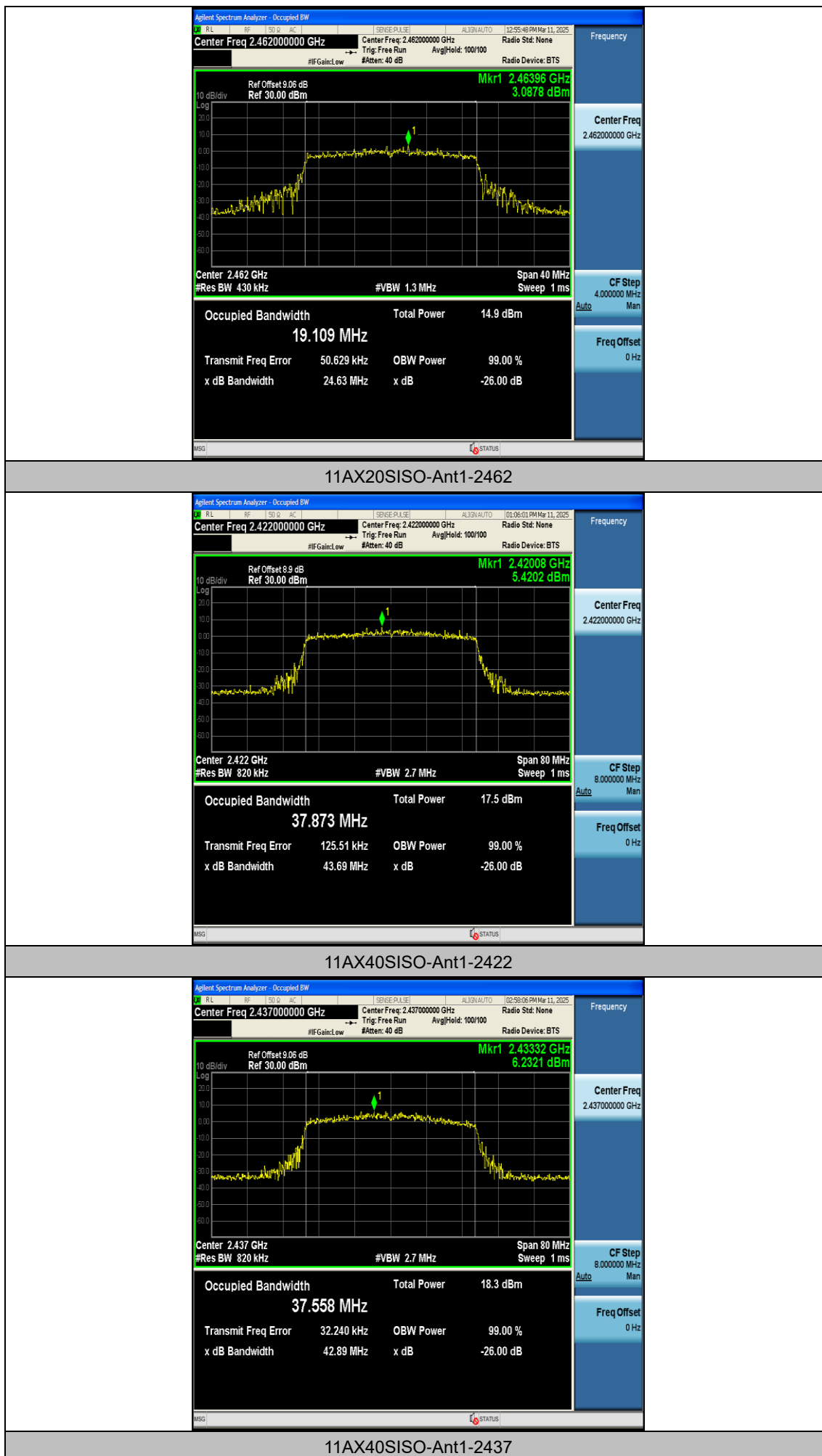


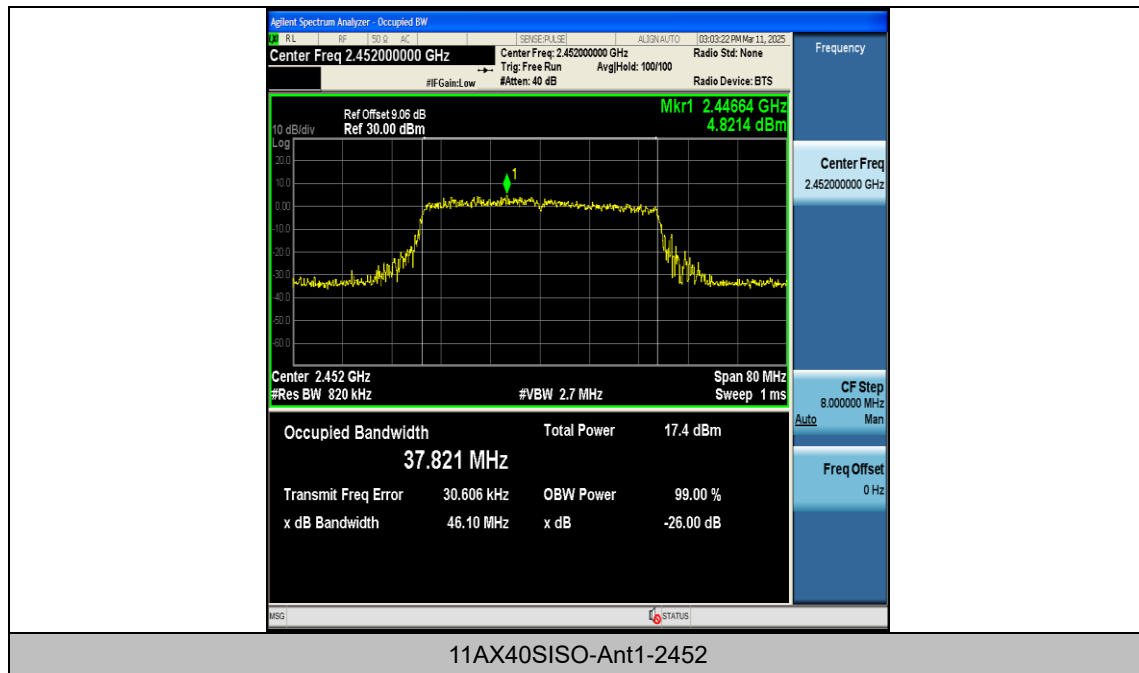












Appendix C: Maximum Average conducted output power

Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Power [dBm]	Conducted Limit [dBm]	Verdict
11B	Ant1	2412	10.92	≤30.00	PASS
11B	Ant1	2437	11.21	≤30.00	PASS
11B	Ant1	2462	10.60	≤30.00	PASS
11G	Ant1	2412	10.80	≤30.00	PASS
11G	Ant1	2437	11.57	≤30.00	PASS
11G	Ant1	2462	10.33	≤30.00	PASS
11N20SISO	Ant1	2412	10.70	≤30.00	PASS
11N20SISO	Ant1	2437	11.26	≤30.00	PASS
11N20SISO	Ant1	2462	10.32	≤30.00	PASS
11N40SISO	Ant1	2422	11.57	≤30.00	PASS
11N40SISO	Ant1	2437	11.33	≤30.00	PASS
11N40SISO	Ant1	2452	10.59	≤30.00	PASS
11AX20SISO	Ant1	2412	11.58	≤30.00	PASS
11AX20SISO	Ant1	2437	11.57	≤30.00	PASS
11AX20SISO	Ant1	2462	8.27	≤30.00	PASS
11AX40SISO	Ant1	2422	10.34	≤30.00	PASS
11AX40SISO	Ant1	2437	11.02	≤30.00	PASS
11AX40SISO	Ant1	2452	10.09	≤30.00	PASS

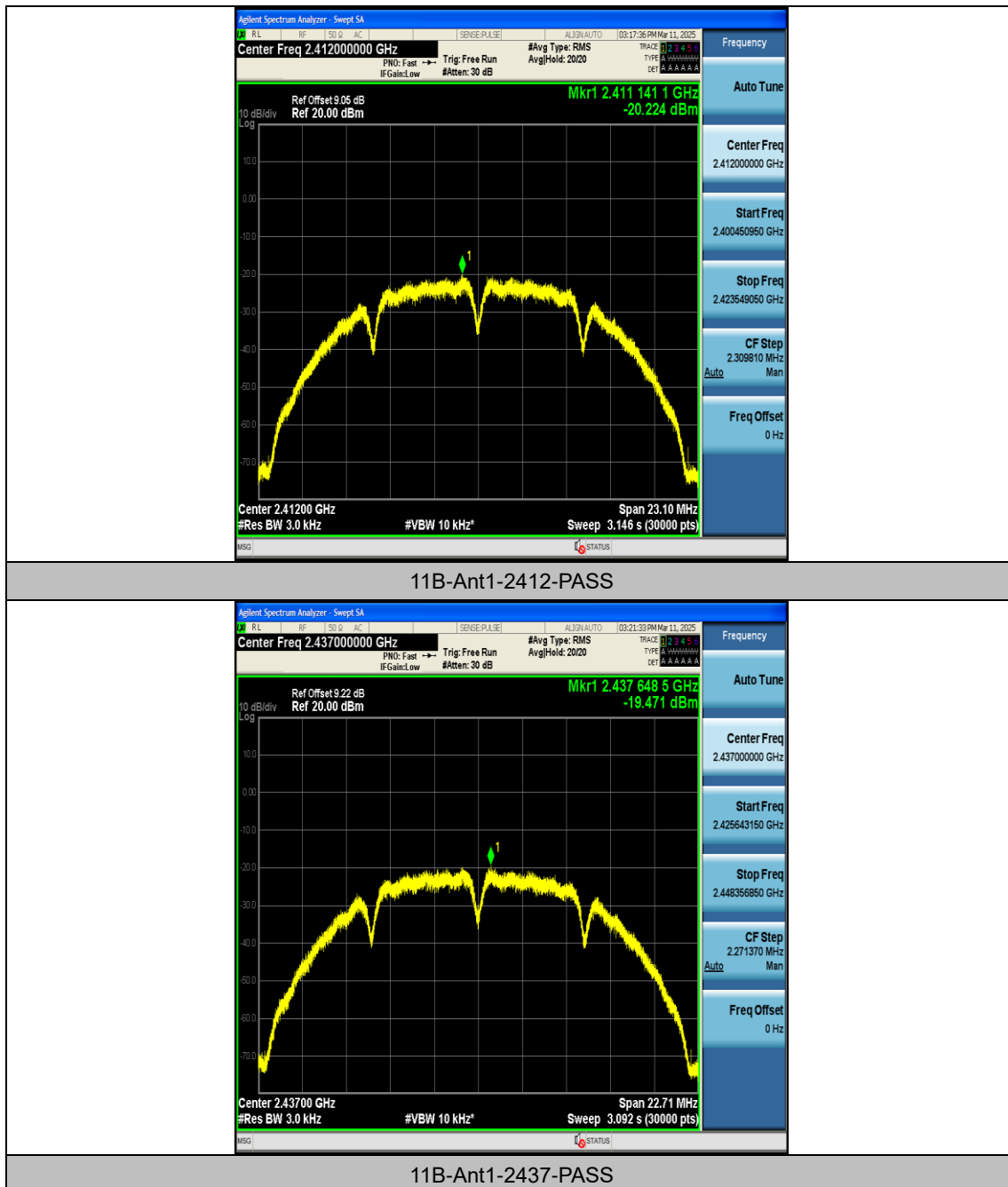
Note: The Duty Cycle Factor is compensated in the result.

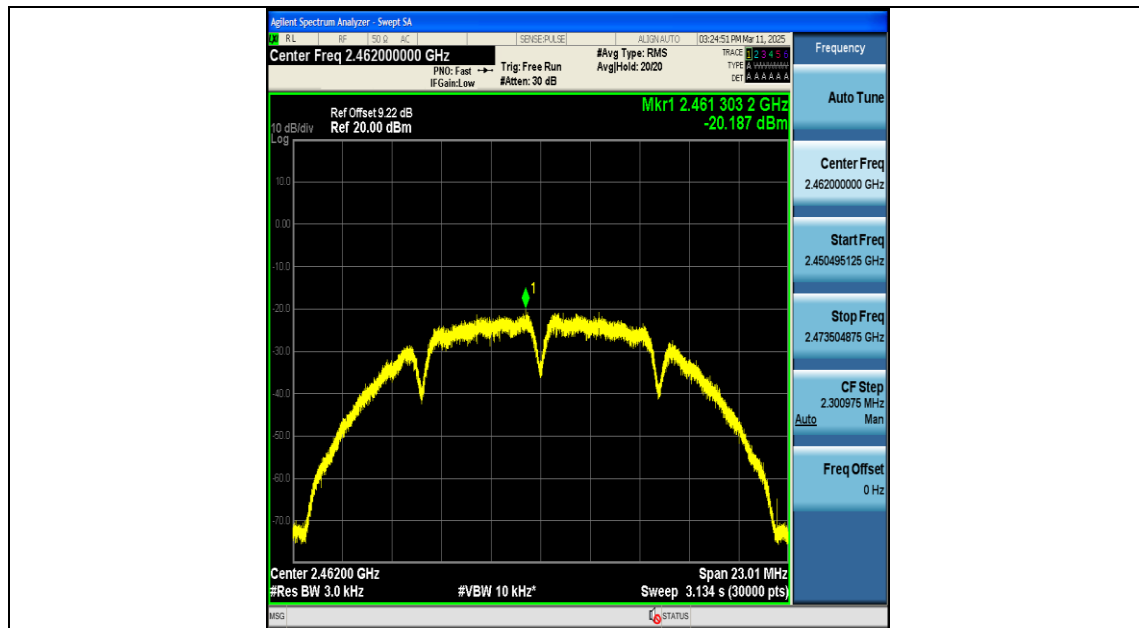
Appendix D: Maximum Average power spectral density

Test Result

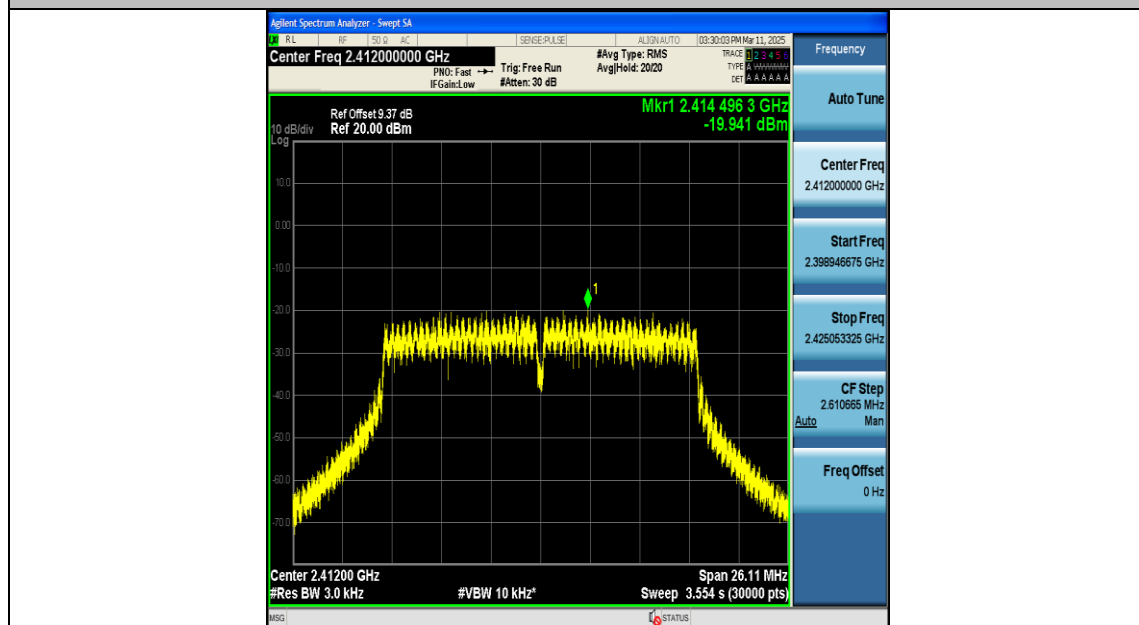
Test Mode	Antenna	Frequency [MHz]	Raw. Data [dBm/3-100kHz]	Dc. Factor	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-20.37	0.15	-20.22	≤8.00	PASS
11B	Ant1	2437	-19.63	0.16	-19.47	≤8.00	PASS
11B	Ant1	2462	-20.35	0.16	-20.19	≤8.00	PASS
11G	Ant1	2412	-20.41	0.47	-19.94	≤8.00	PASS
11G	Ant1	2437	-18.98	0.41	-18.57	≤8.00	PASS
11G	Ant1	2462	-20.59	0.48	-20.11	≤8.00	PASS
11N20SI SO	Ant1	2412	-20.78	0.51	-20.27	≤8.00	PASS
11N20SI SO	Ant1	2437	-20.03	0.51	-19.52	≤8.00	PASS
11N20SI SO	Ant1	2462	-21.13	0.51	-20.62	≤8.00	PASS
11N40SI SO	Ant1	2422	-22.28	1.01	-21.27	≤8.00	PASS
11N40SI SO	Ant1	2437	-22.26	1.01	-21.25	≤8.00	PASS
11N40SI SO	Ant1	2452	-23.10	1.01	-22.09	≤8.00	PASS
11AX20S ISO	Ant1	2412	-26.2	5.55	-20.65	≤8.00	PASS
11AX20S ISO	Ant1	2437	-28.11	5.55	-22.56	≤8.00	PASS
11AX20S ISO	Ant1	2462	-29.91	5.55	-24.36	≤8.00	PASS
11AX40S ISO	Ant1	2422	-29.54	5.58	-23.96	≤8.00	PASS
11AX40S ISO	Ant1	2437	-27.88	5.55	-22.33	≤8.00	PASS
11AX40S ISO	Ant1	2452	-29.41	5.58	-23.83	≤8.00	PASS

Test Graphs

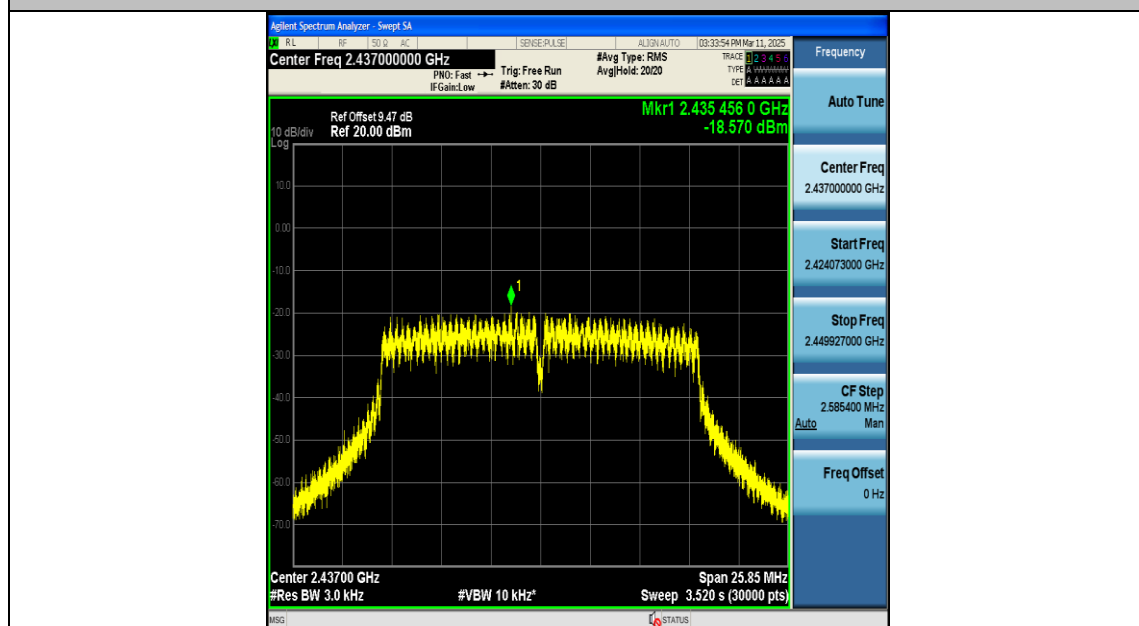




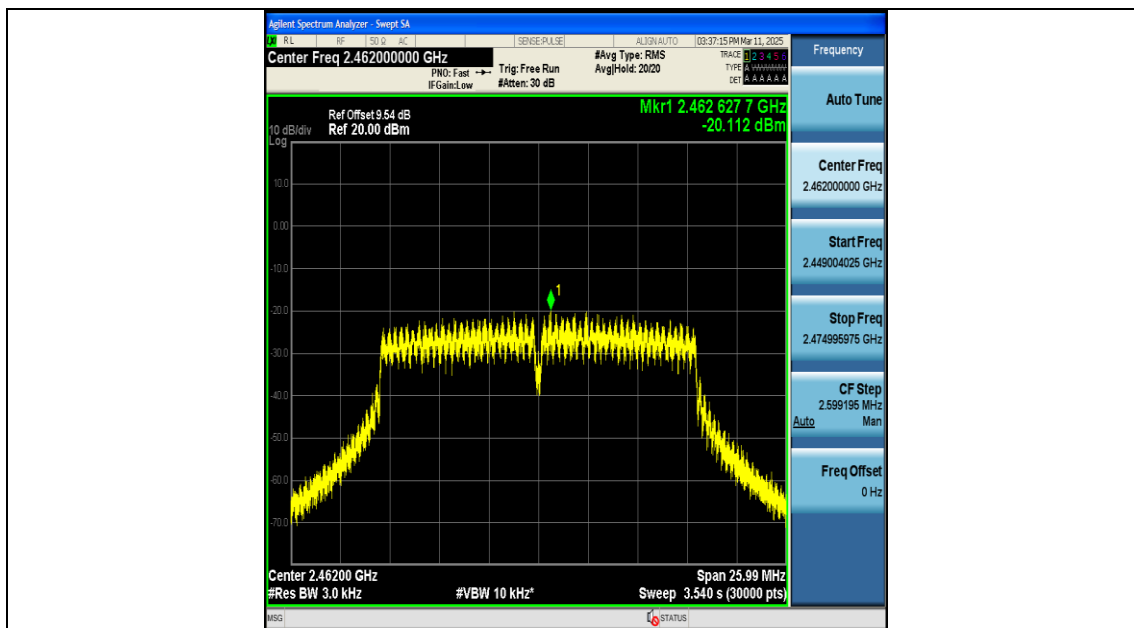
11B-Ant1-2462-PASS



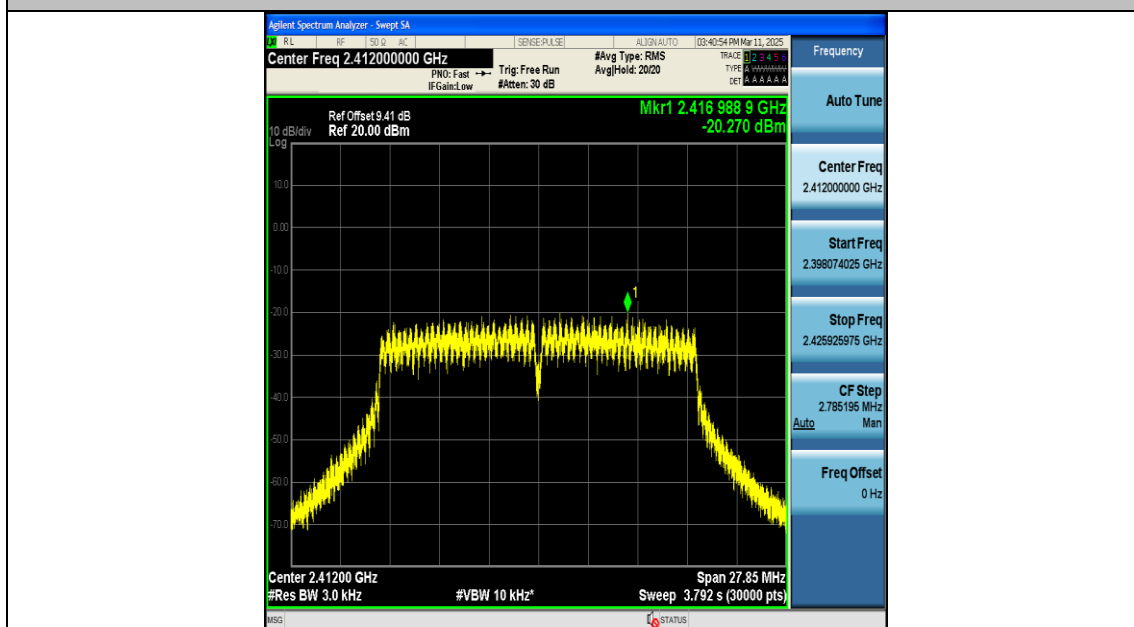
11G-Ant1-2412-PASS



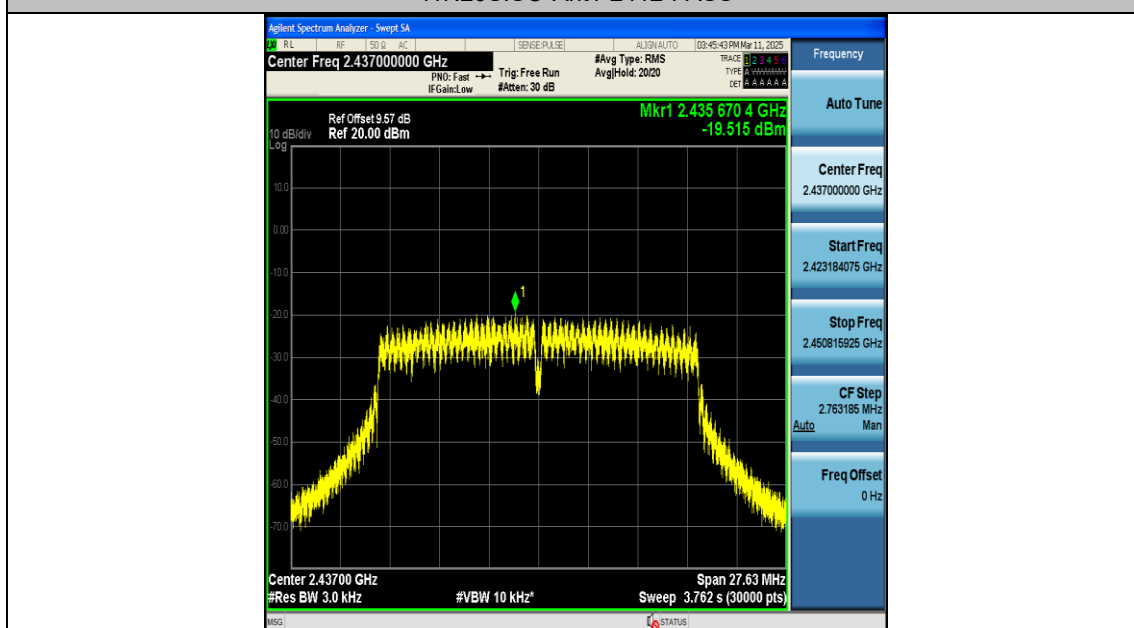
11G-Ant1-2437-PASS



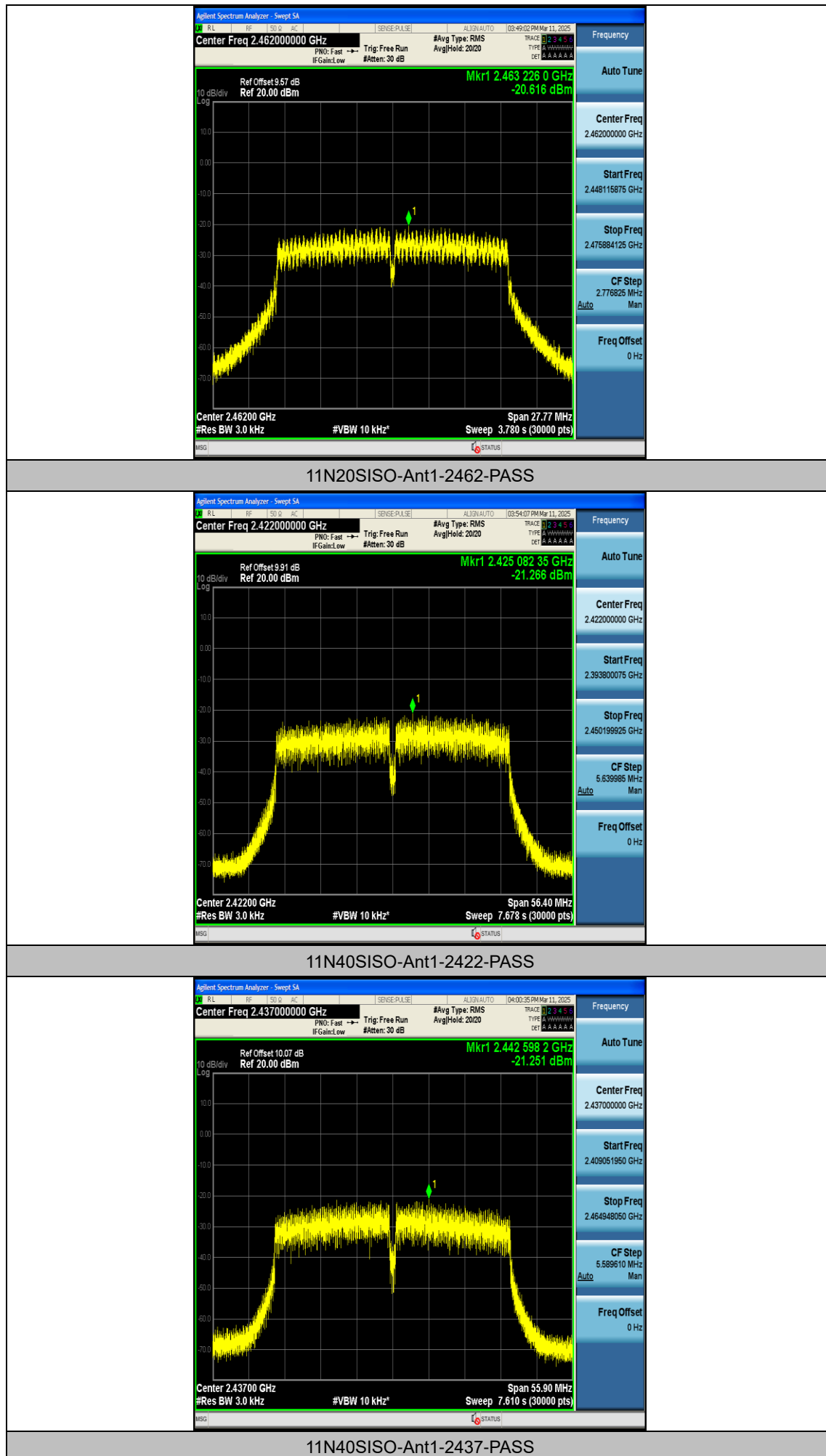
11G-Ant1-2462-PASS

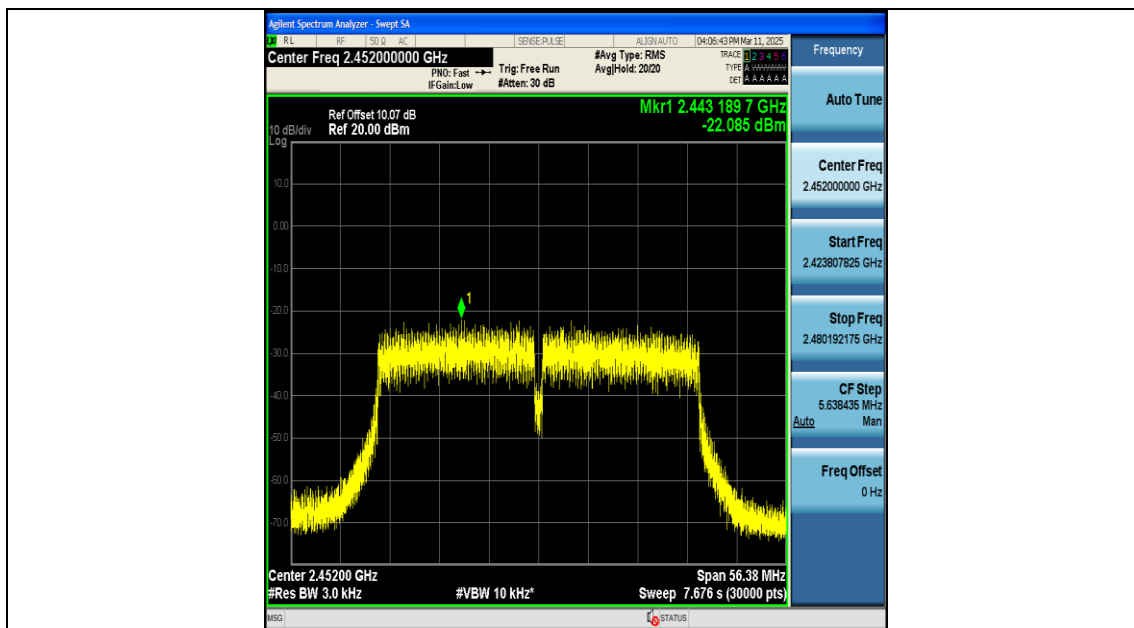


11N20SISO-Ant1-2412-PASS

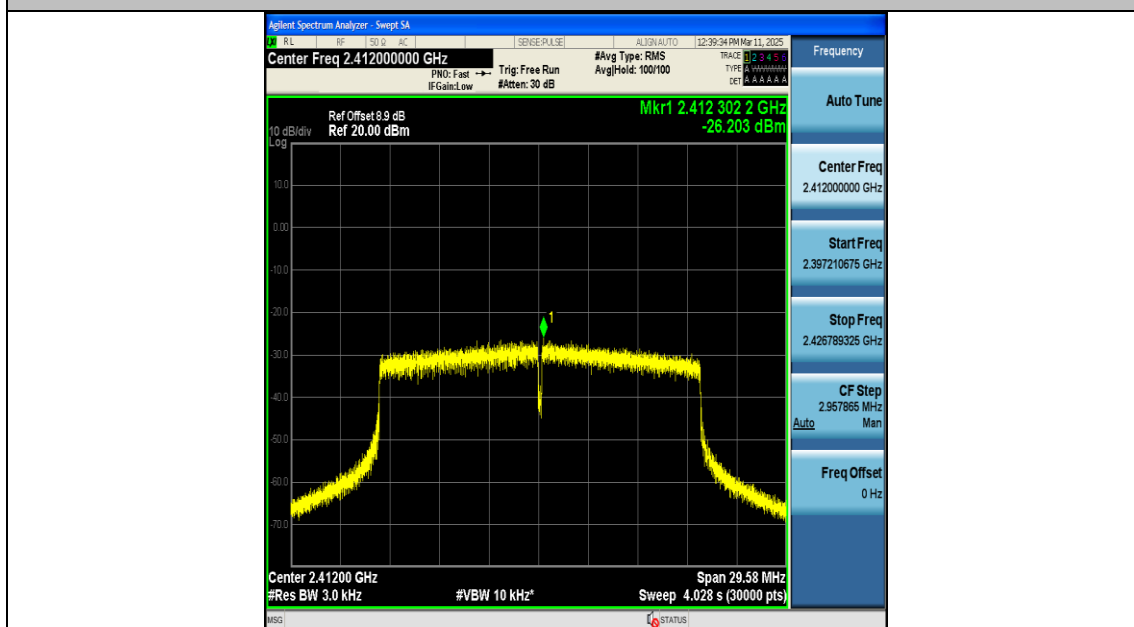


11N20SISO-Ant1-2437-PASS

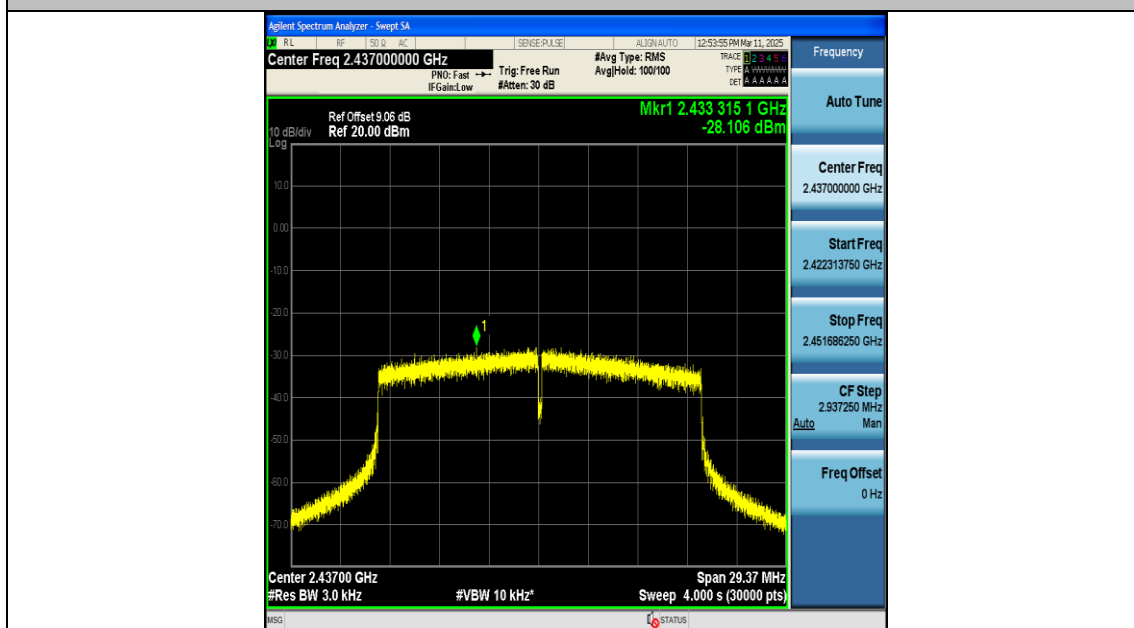




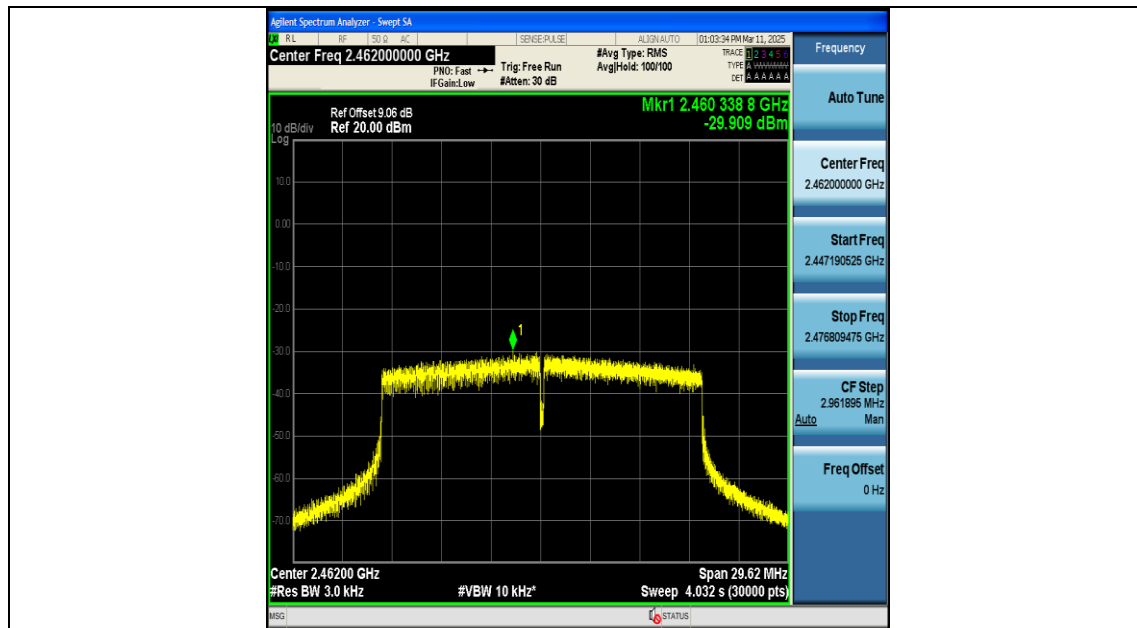
11N40SISO-Ant1-2452-PASS



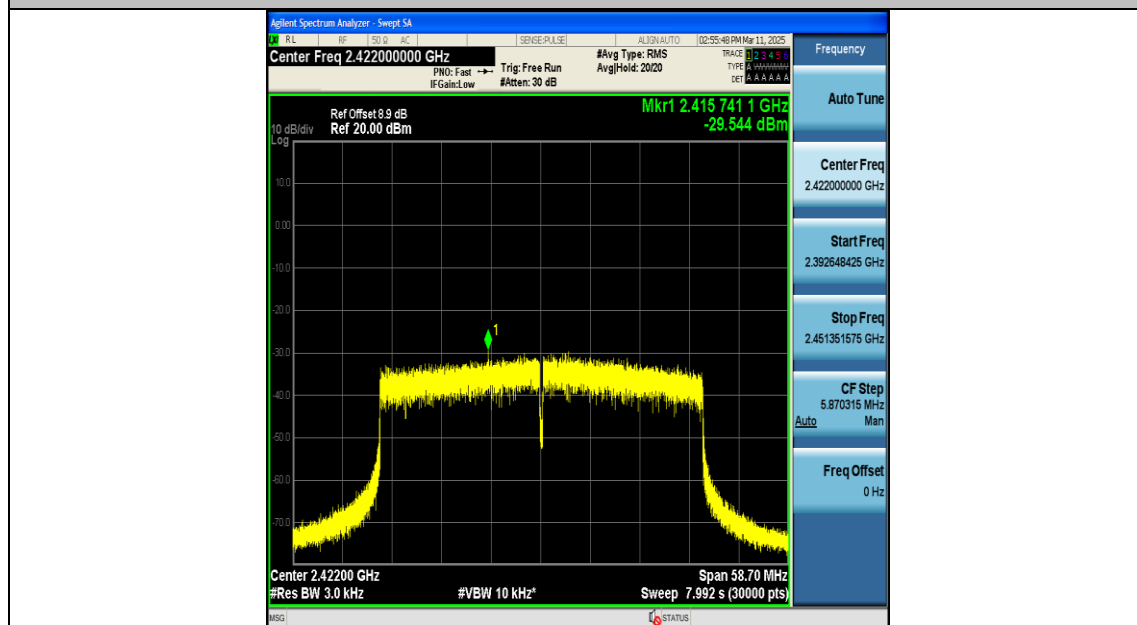
11AX20SISO-Ant1-2412-PASS



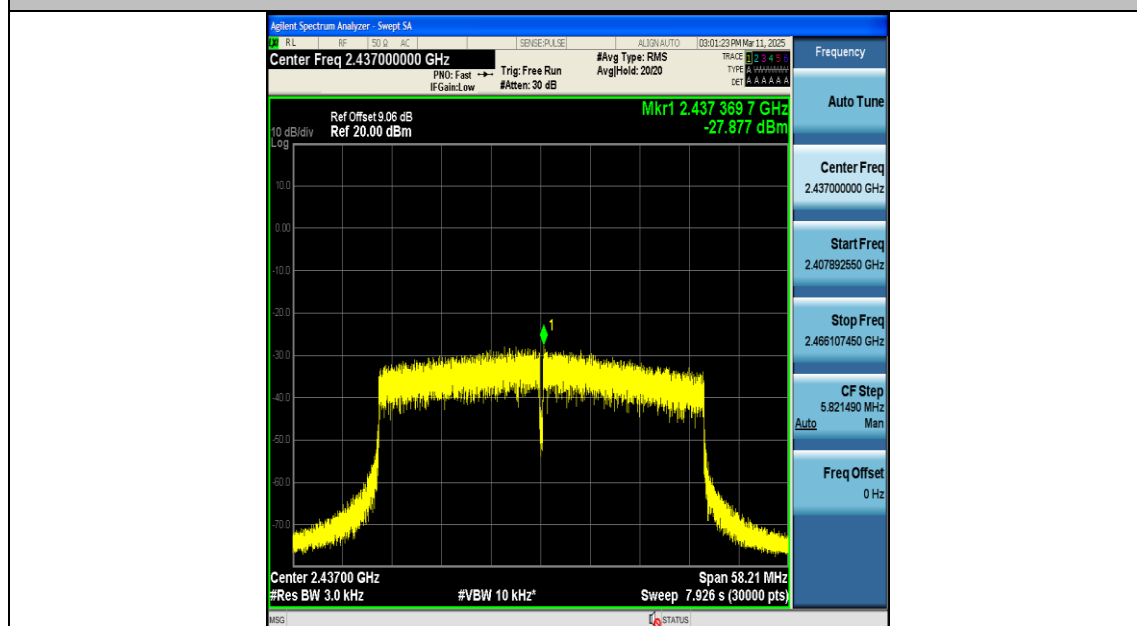
11AX20SISO-Ant1-2437-PASS



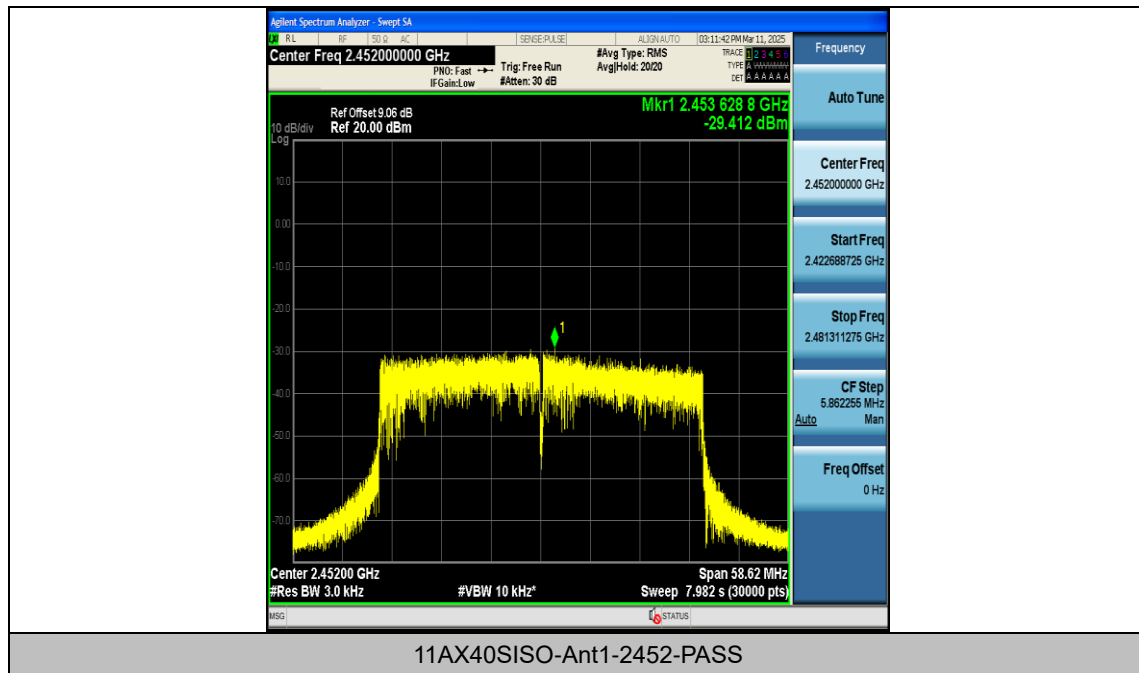
11AX20SISO-Ant1-2462-PASS



11AX40SISO-Ant1-2422-PASS



11AX40SISO-Ant1-2437-PASS

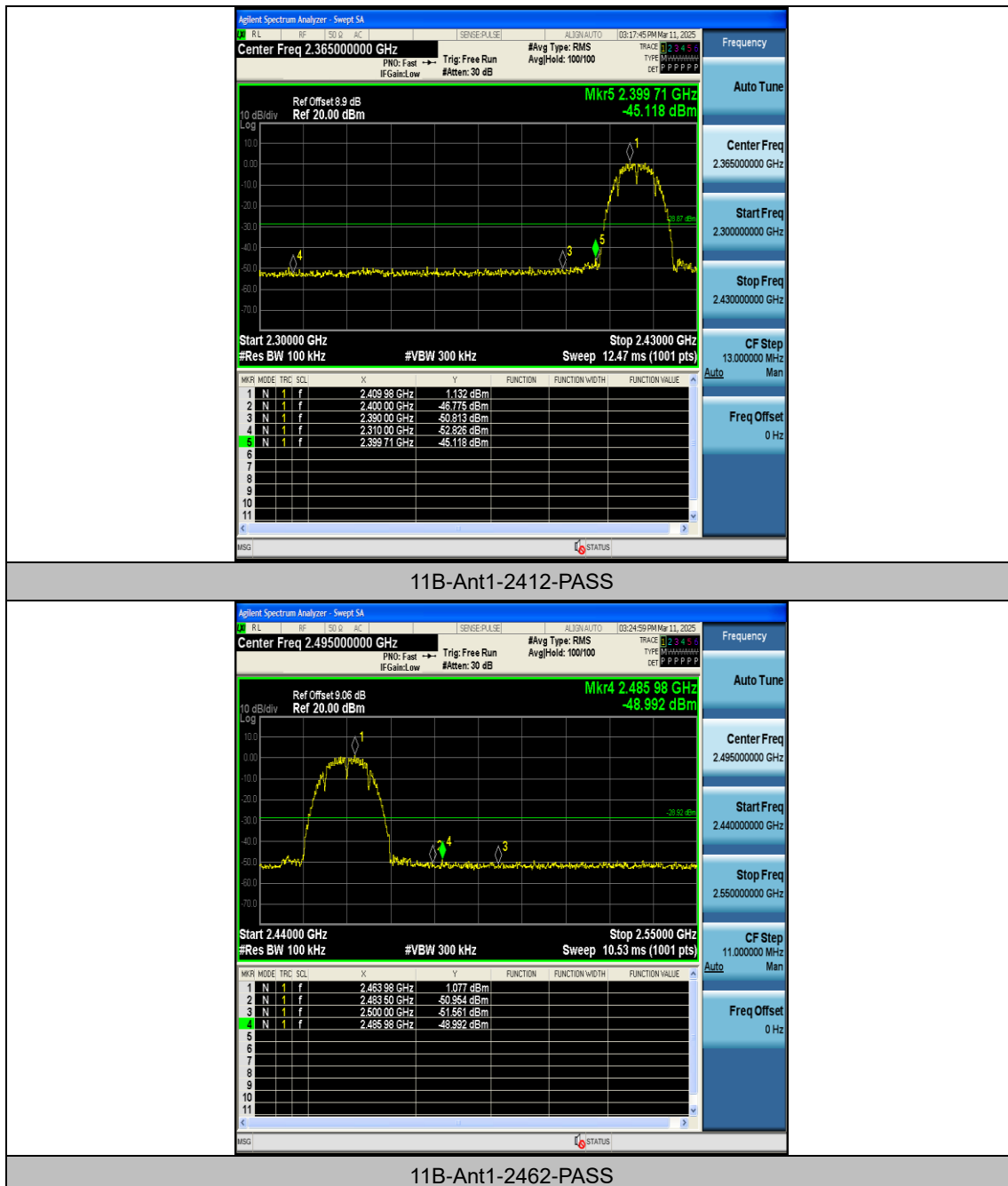


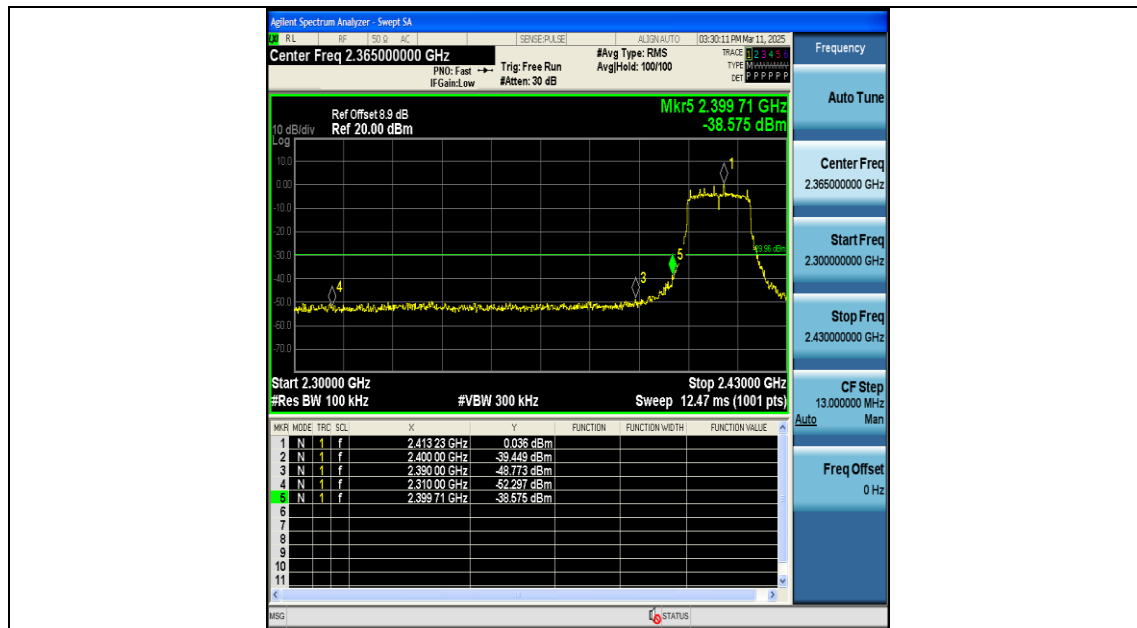
Appendix E: Band edge measurements

Test Result

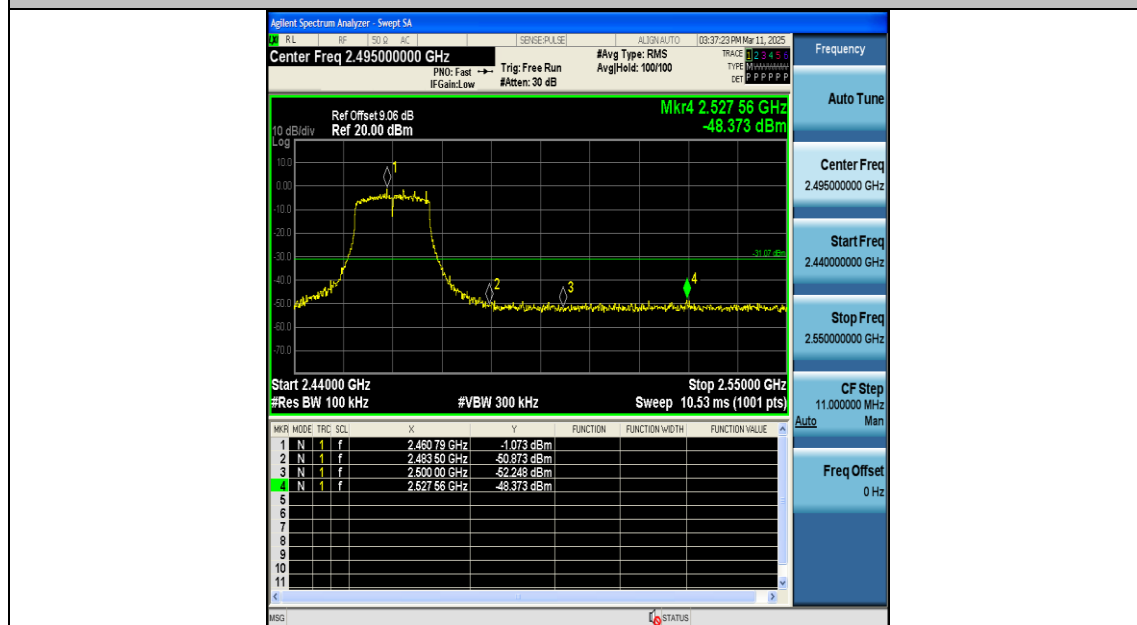
Test Mode	Antenna	Ch. Name	Frequency. [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	1.13	-45.12	≤-28.87	PASS
11B	Ant1	High	2462	1.08	-48.99	≤-28.92	PASS
11G	Ant1	Low	2412	0.04	-38.58	≤-29.96	PASS
11G	Ant1	High	2462	-1.07	-48.37	≤-31.07	PASS
11N20SI SO	Ant1	Low	2412	-1.14	-36.78	≤-31.14	PASS
11N20SI SO	Ant1	High	2462	-1.35	-48.19	≤-31.35	PASS
11N40SI SO	Ant1	Low	2422	-2.35	-41.3	≤-32.35	PASS
11N40SI SO	Ant1	High	2452	-3.28	-46.43	≤-33.28	PASS
11AX20S ISO	Ant1	Low	2412	1.41	-36.16	≤-28.59	PASS
11AX20S ISO	Ant1	High	2462	0.82	-48.76	≤-29.19	PASS
11AX40S ISO	Ant1	Low	2422	-2.22	-42.26	≤-32.22	PASS
11AX40S ISO	Ant1	High	2452	-3.29	-46.16	≤-33.29	PASS

Test Graphs

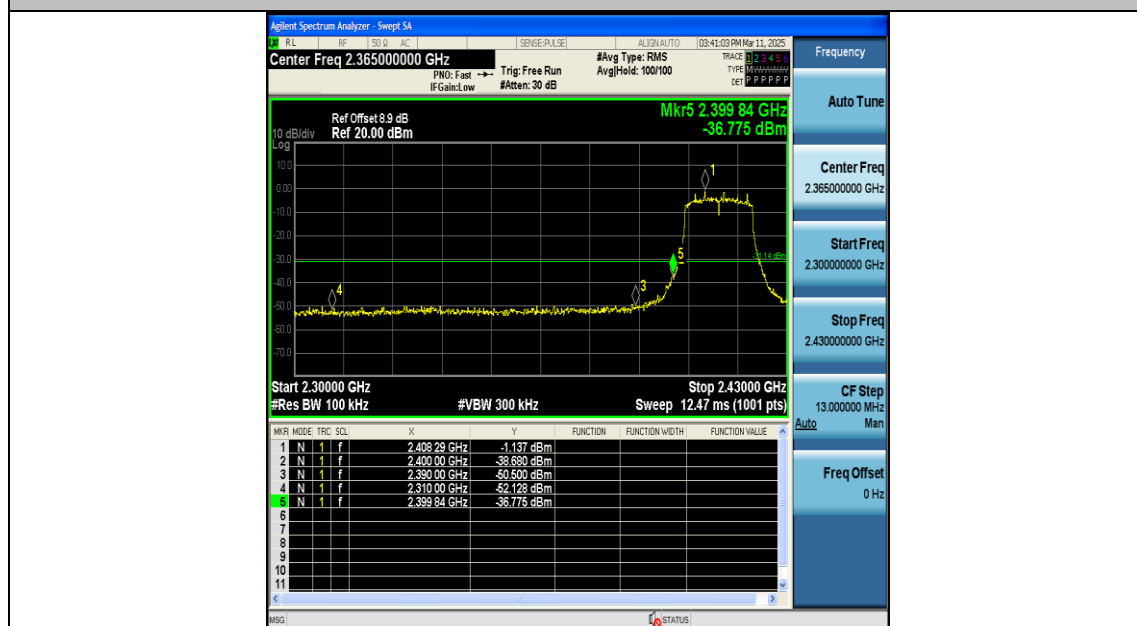




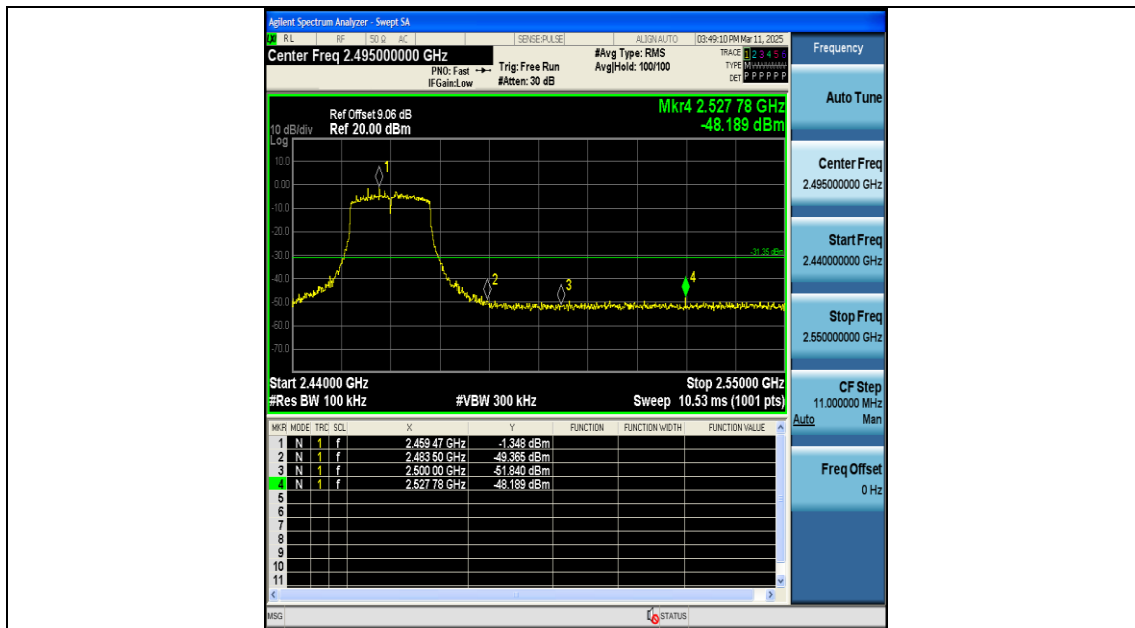
11G-Ant1-2412-PASS



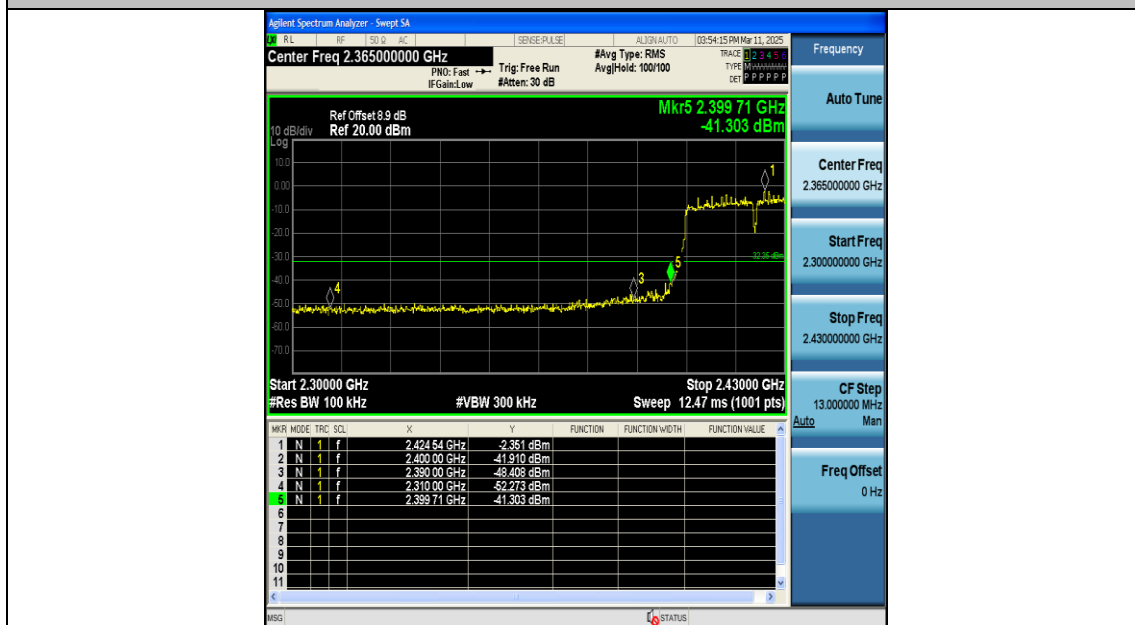
11G-Ant1-2462-PASS



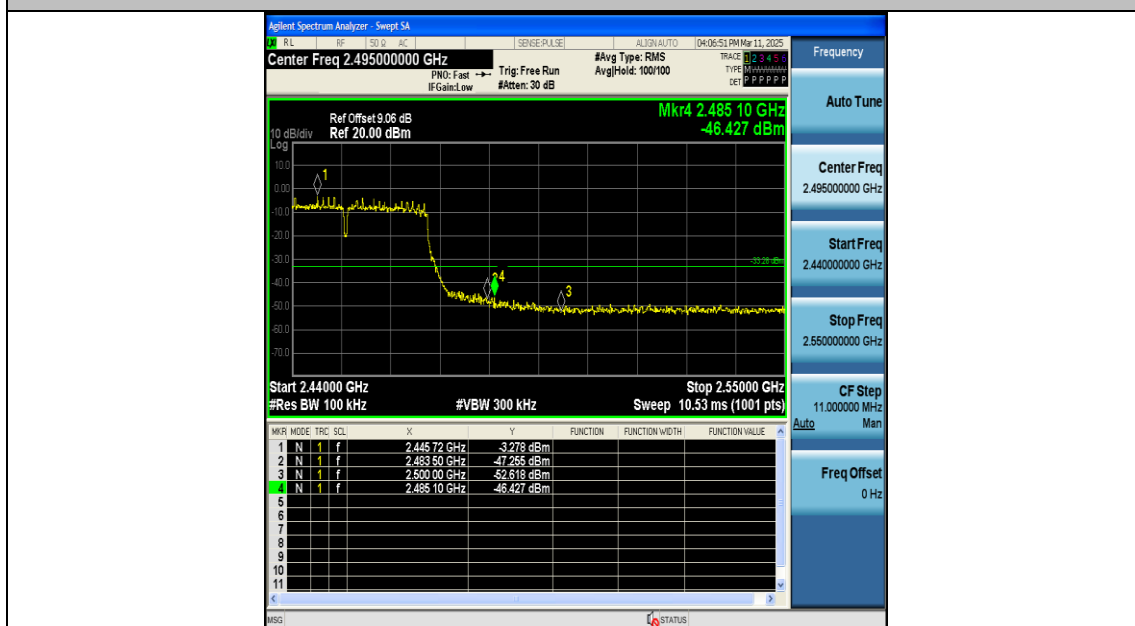
11N20SISO-Ant1-2412-PASS



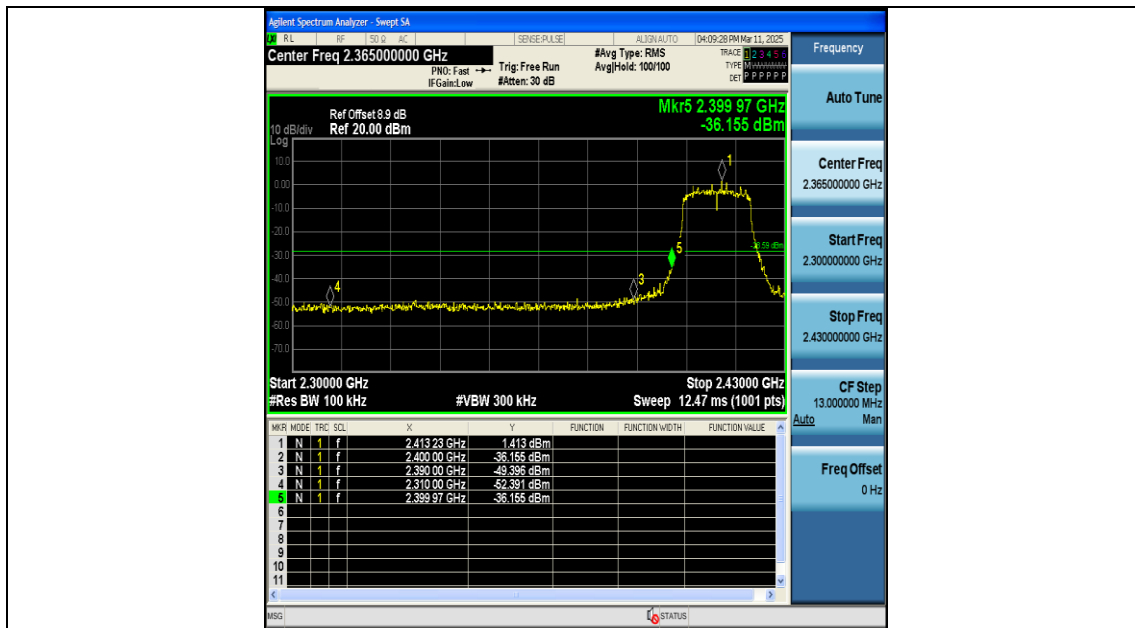
11N20SISO-Ant1-2462-PASS



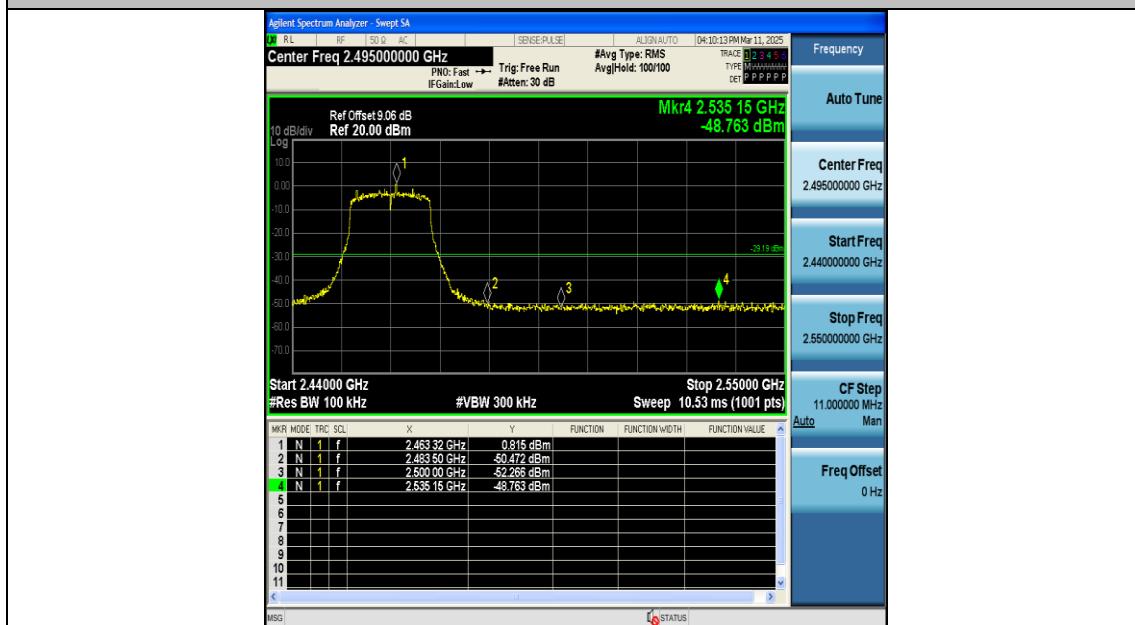
11N40SISO-Ant1-2422-PASS



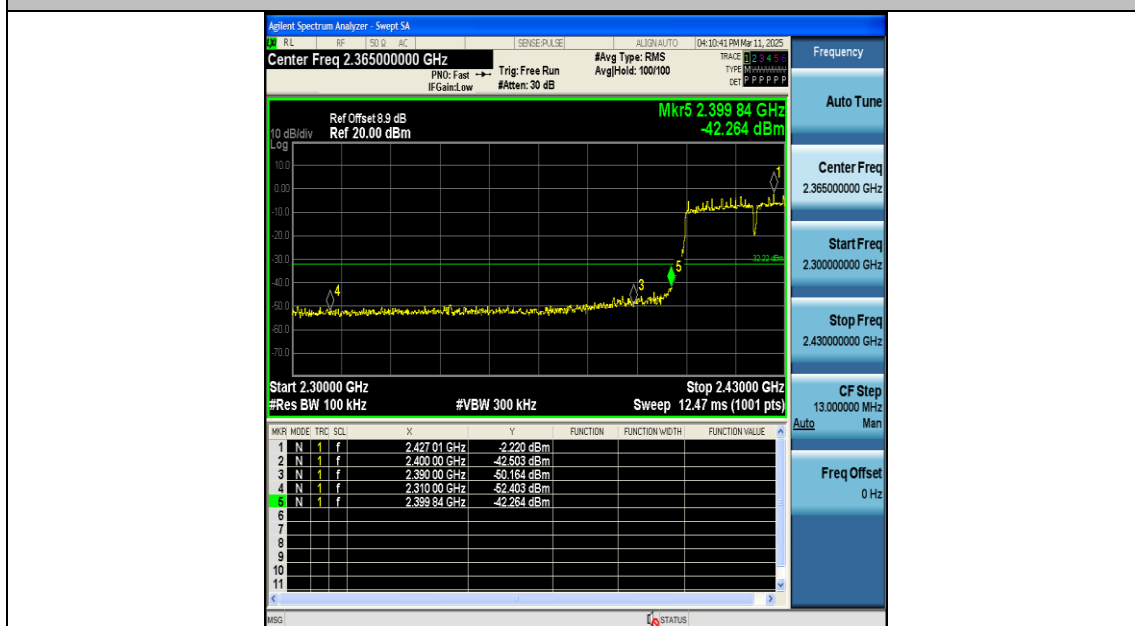
11N40SISO-Ant1-2452-PASS



11AX20SISO-Ant1-2412-PASS



11AX20SISO-Ant1-2462-PASS



11AX40SISO-Ant1-2422-PASS