

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

Product Name: BOLT

Trade Mark: 

Test Model: NB600BL

FCC ID: YMT-NB600

Environmental Conditions

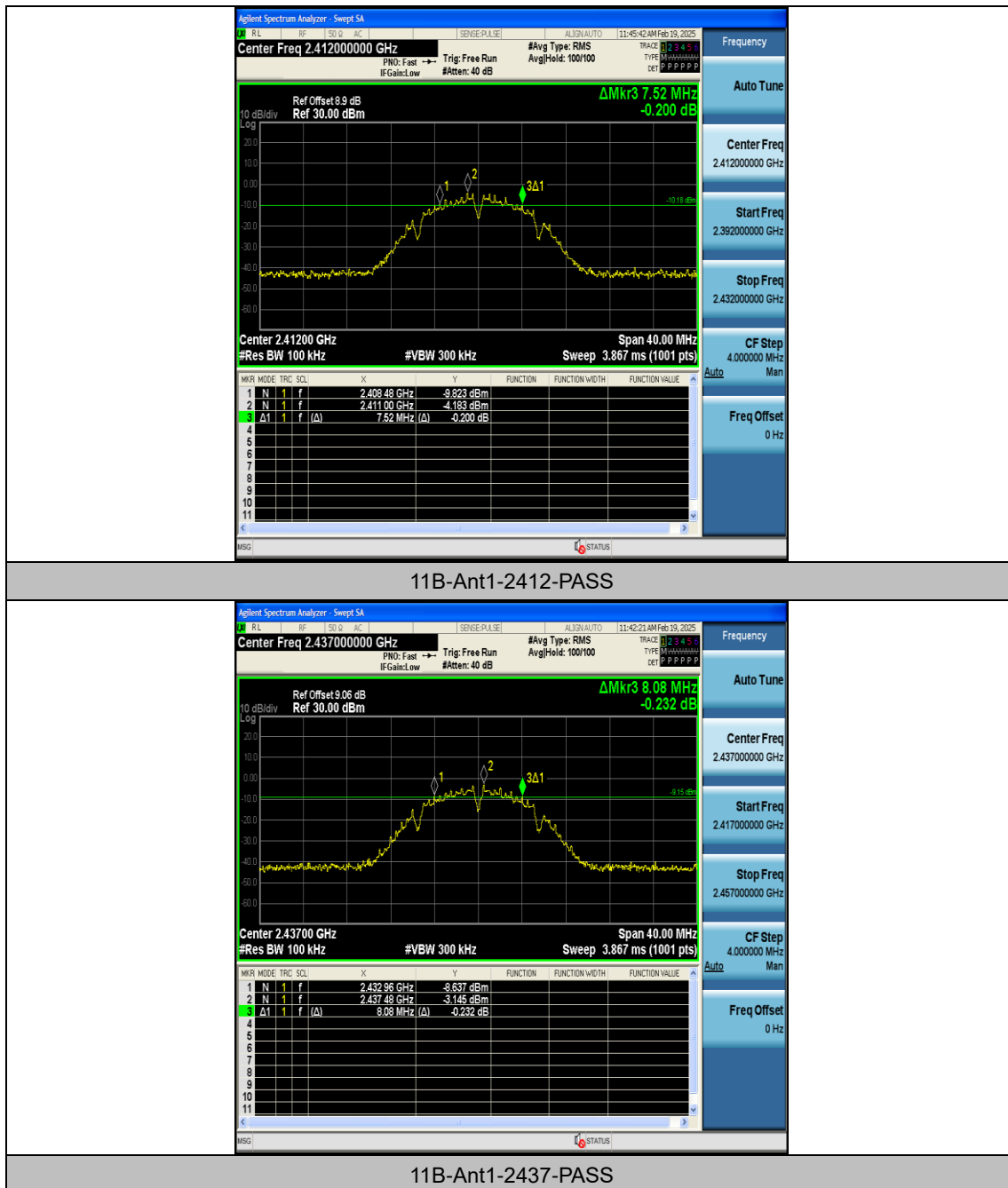
Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

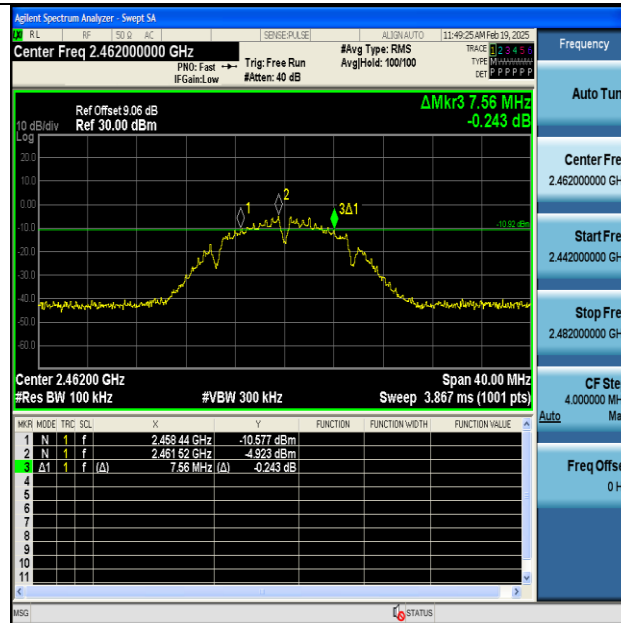
Appendix A: DTS Bandwidth

Test Result

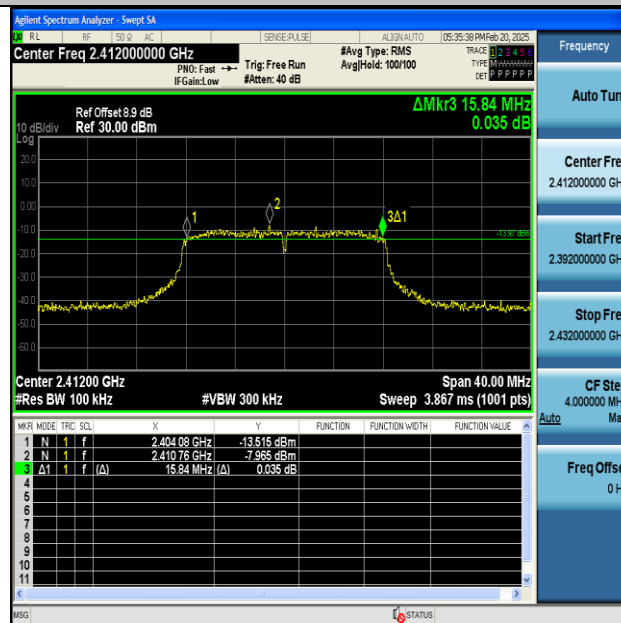
Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	7.520	2408.480	2416.000	0.5	PASS
11B	Ant1	2437	8.080	2432.960	2441.040	0.5	PASS
11B	Ant1	2462	7.560	2458.440	2466.000	0.5	PASS
11G	Ant1	2412	15.840	2404.080	2419.920	0.5	PASS
11G	Ant1	2437	16.320	2428.840	2445.160	0.5	PASS
11G	Ant1	2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.200	2420.800	0.5	PASS
11N20SISO	Ant1	2437	17.560	2428.200	2445.760	0.5	PASS
11N20SISO	Ant1	2462	17.600	2453.200	2470.800	0.5	PASS
11N40SISO	Ant1	2422	36.320	2403.840	2440.160	0.5	PASS
11N40SISO	Ant1	2437	35.760	2418.840	2454.600	0.5	PASS
11N40SISO	Ant1	2452	35.920	2433.840	2469.760	0.5	PASS
11AX20SISO	Ant1	2412	18.920	2402.520	2421.440	0.5	PASS
11AX20SISO	Ant1	2437	18.960	2427.480	2446.440	0.5	PASS
11AX20SISO	Ant1	2462	14.840	2454.680	2469.520	0.5	PASS
11AX40SISO	Ant1	2422	35.120	2404.400	2439.520	0.5	PASS
11AX40SISO	Ant1	2437	34.880	2418.360	2453.240	0.5	PASS
11AX40SISO	Ant1	2452	34.240	2434.080	2468.320	0.5	PASS

Test Graphs





11B-Ant1-2462-PASS



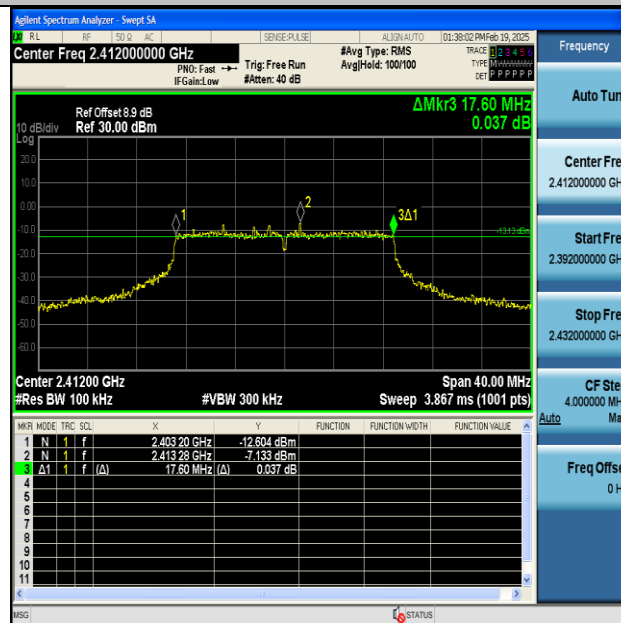
11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS



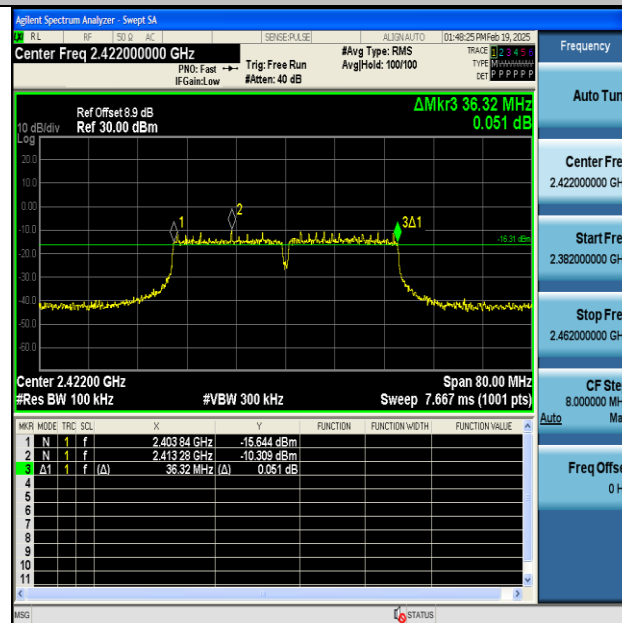
11N20SISO-Ant1-2412-PASS



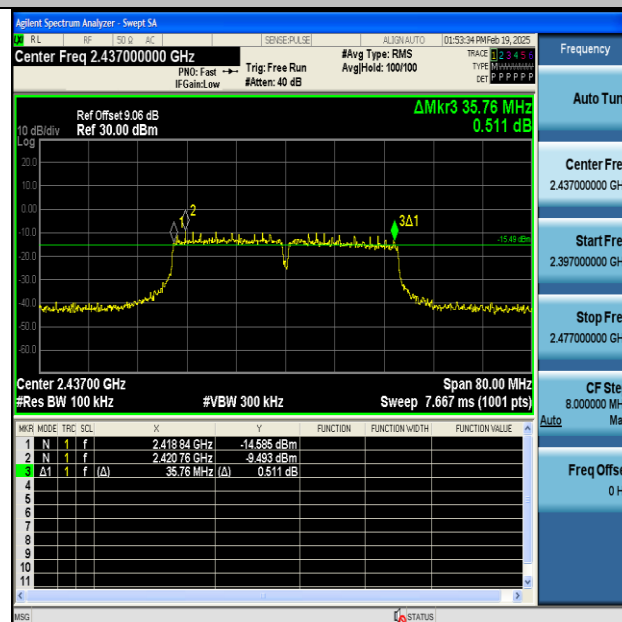
11N20SISO-Ant1-2437-PASS



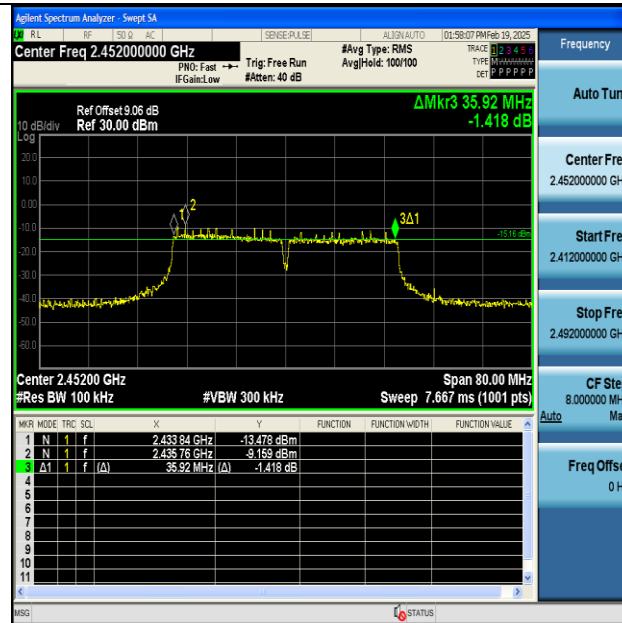
11N20SISO-Ant1-2462-PASS



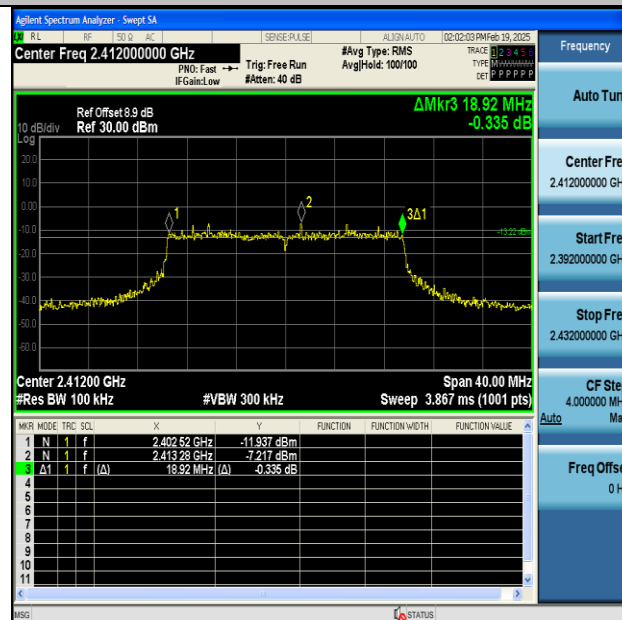
11N40SISO-Ant1-2422-PASS



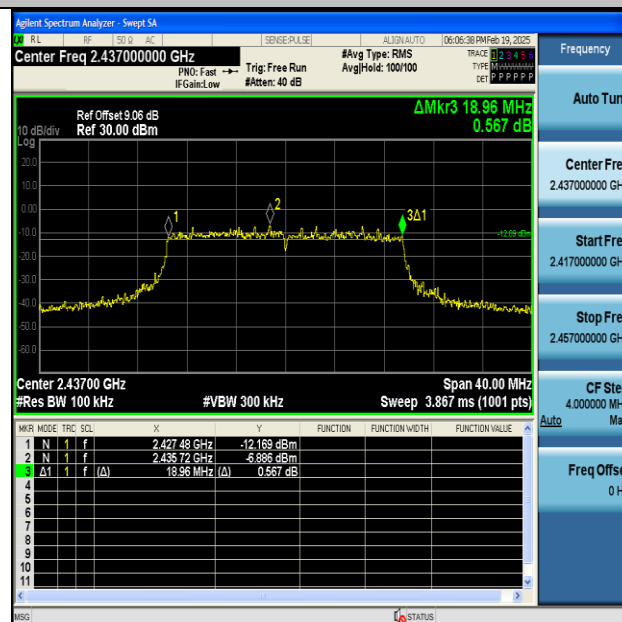
11N40SISO-Ant1-2437-PASS



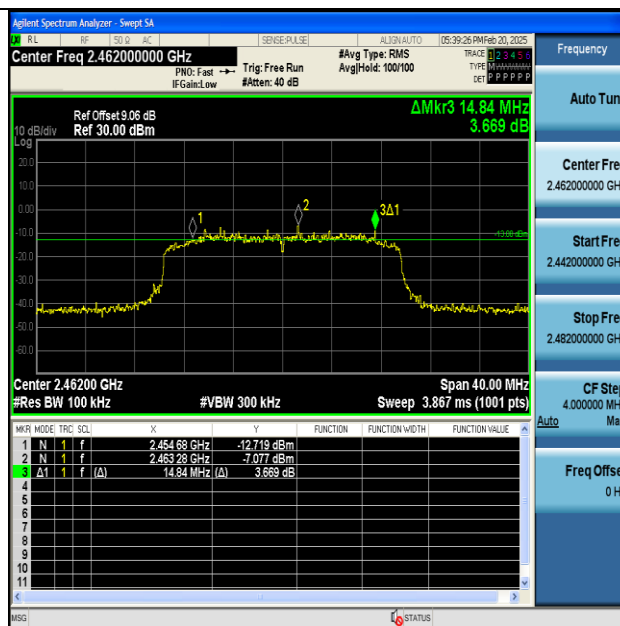
11N40SISO-Ant1-2452-PASS



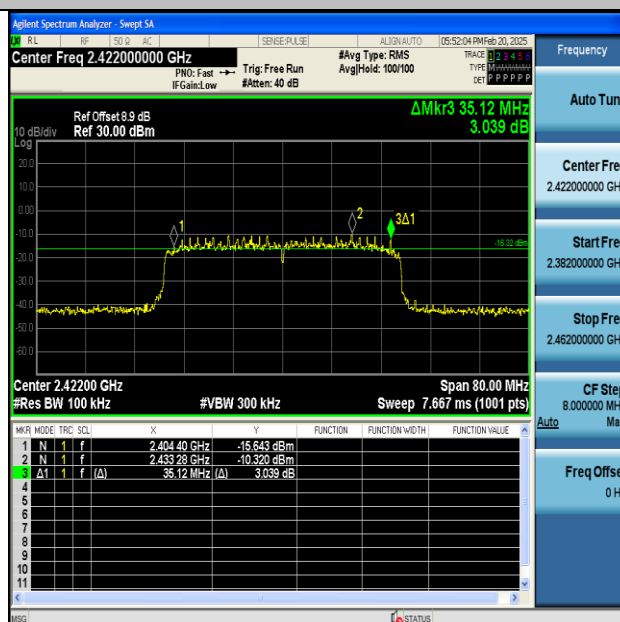
11AX20SISO-Ant1-2412-PASS



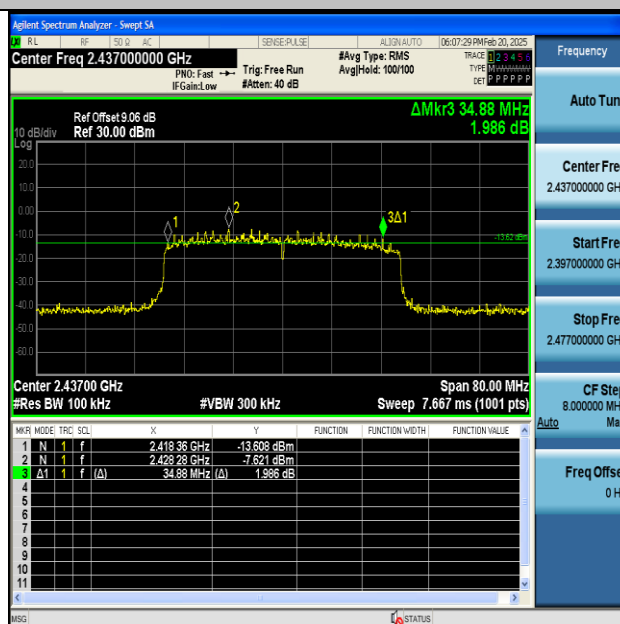
11AX20SISO-Ant1-2437-PASS



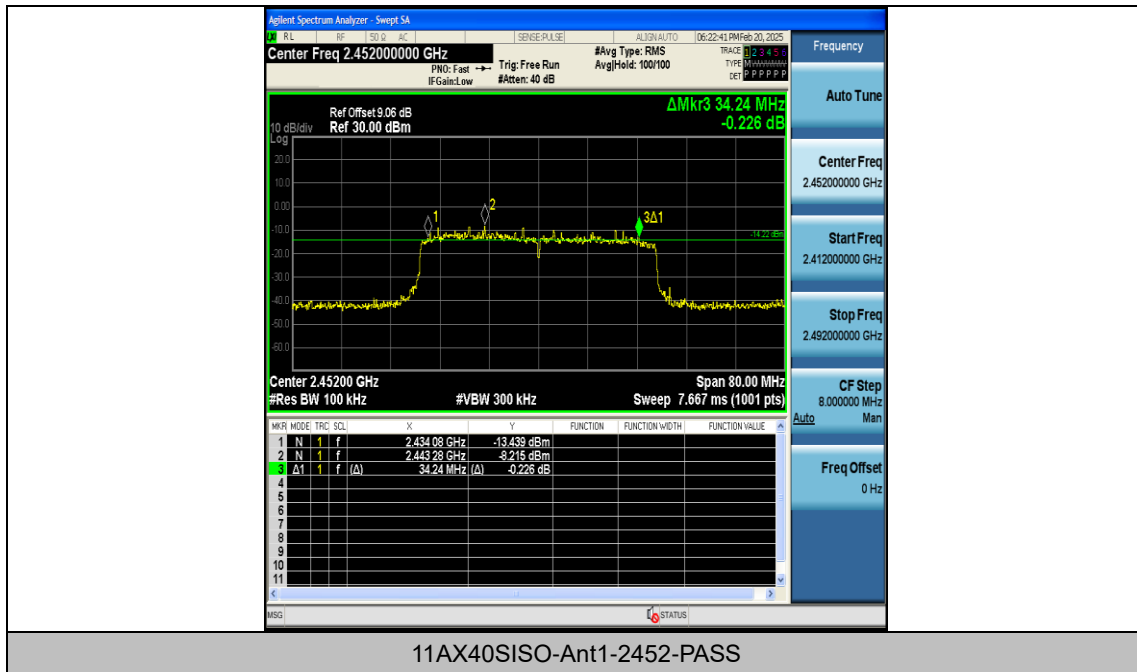
11AX20SISO-Ant1-2462-PASS



11AX40SISO-Ant1-2422-PASS



11AX40SISO-Ant1-2437-PASS

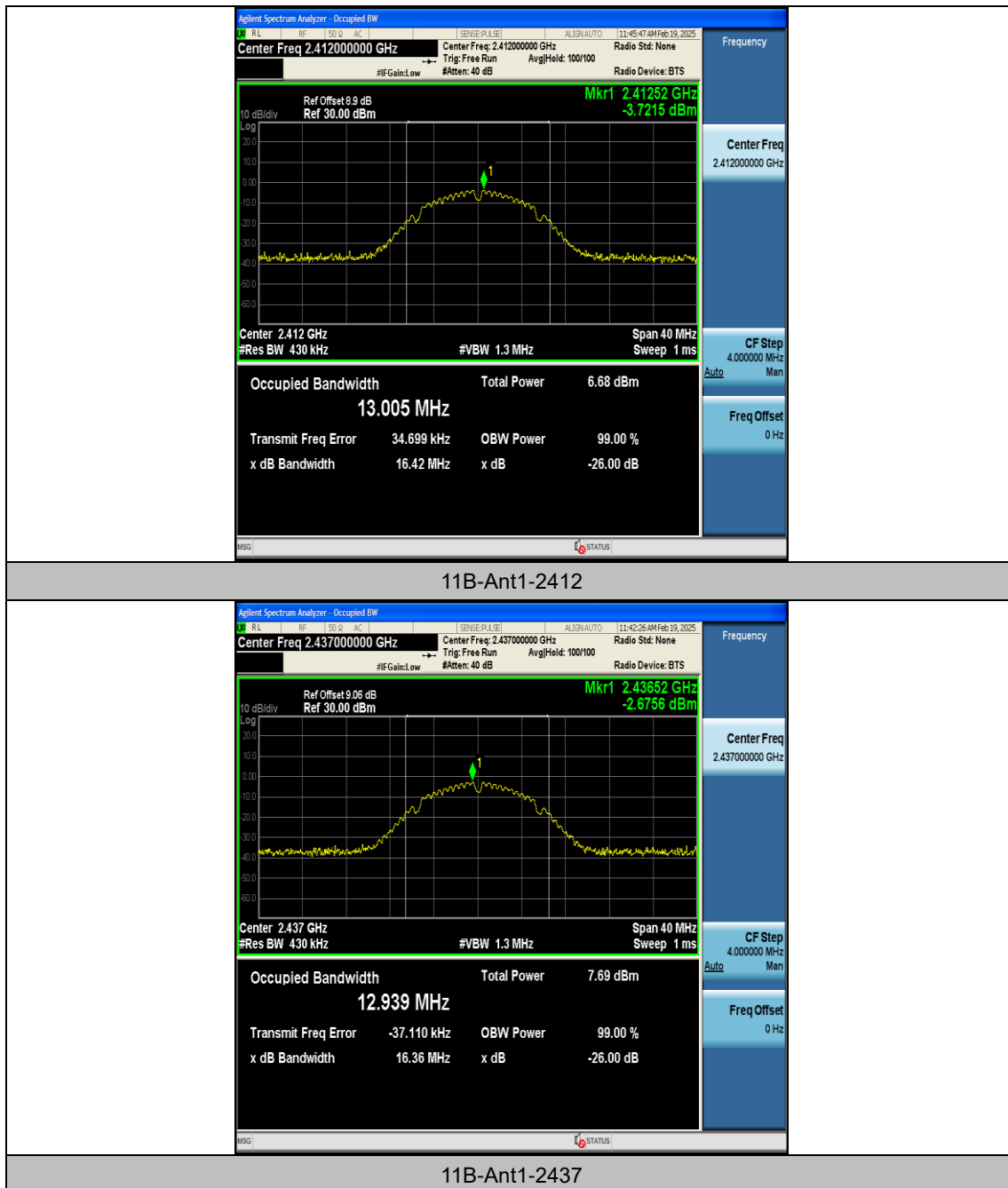


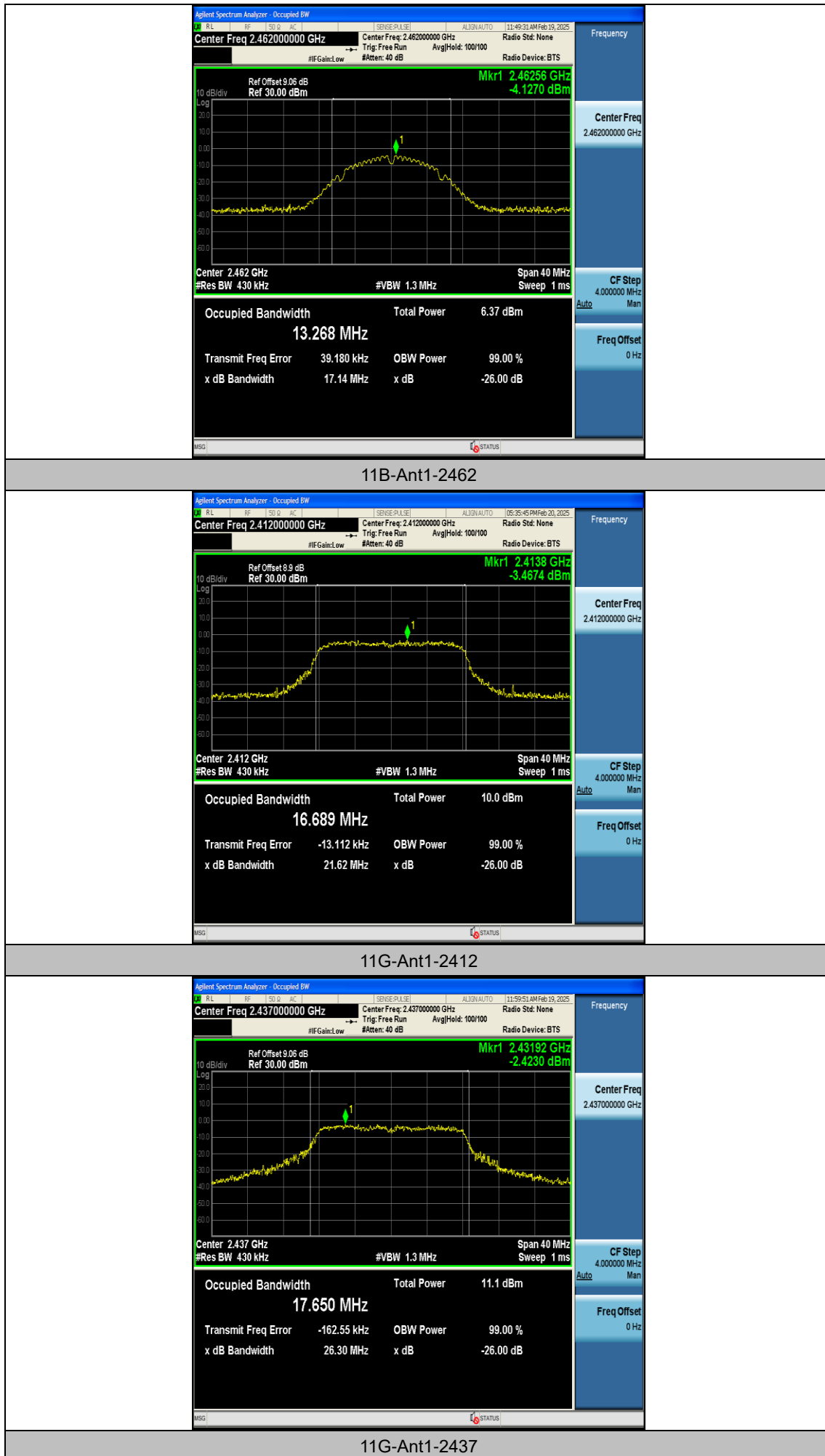
Appendix B: Occupied Channel Bandwidth

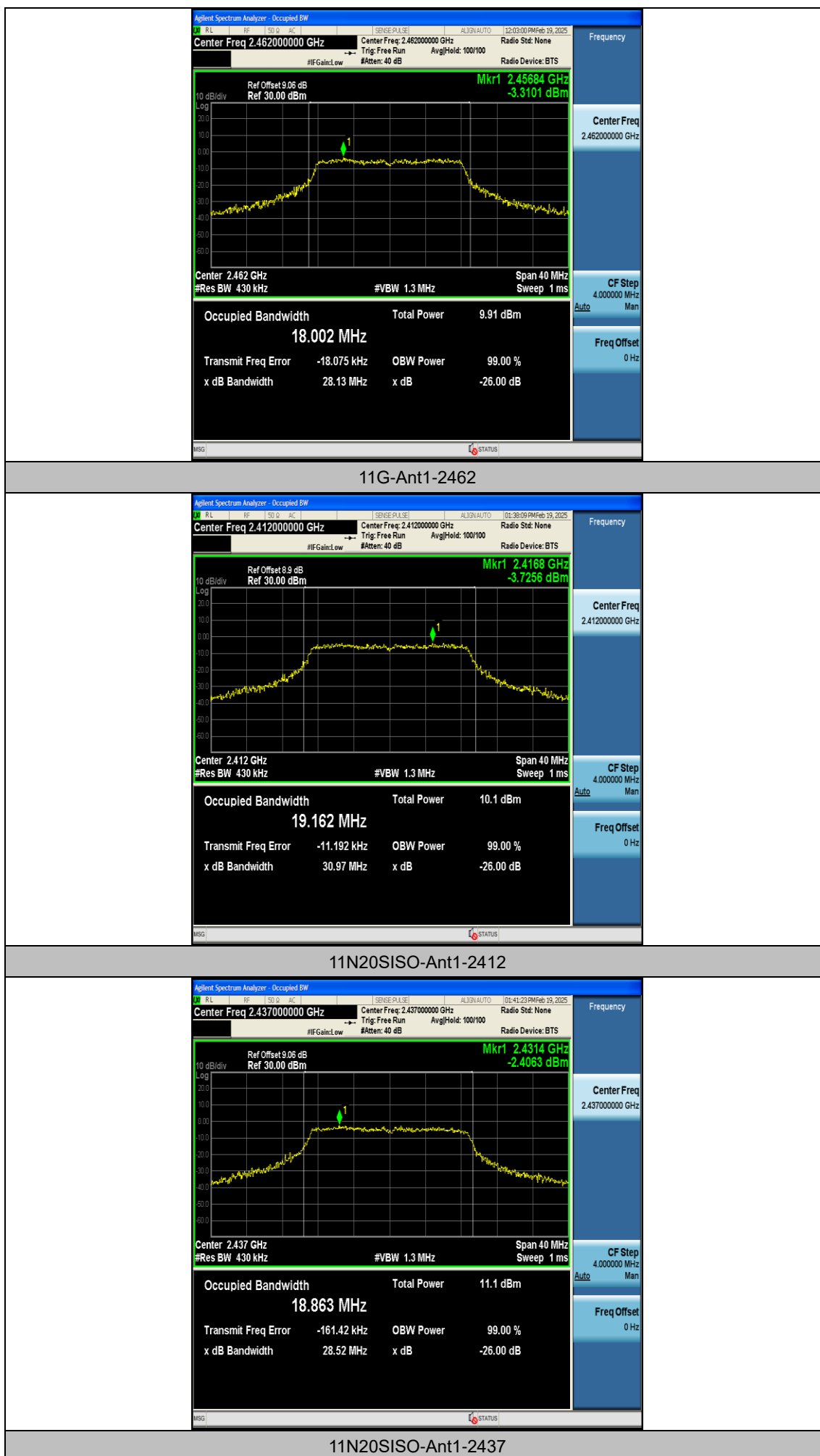
Test Result

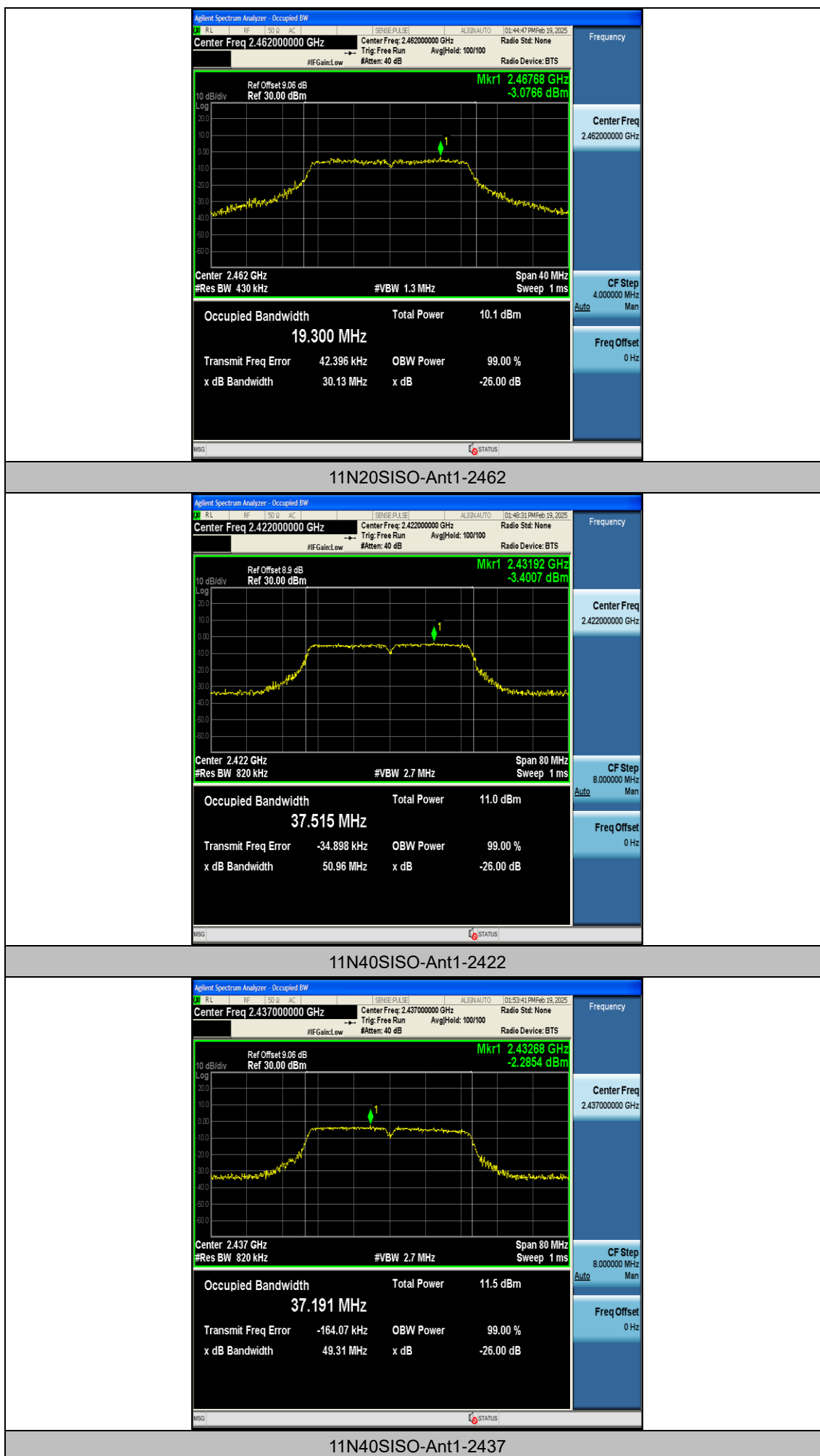
Test Mode	Antenna	Channel Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	13.005	2405.5322	2418.5372	---	---
11B	Ant1	2437	12.939	2430.4934	2443.4324	---	---
11B	Ant1	2462	13.268	2455.4052	2468.6732	---	---
11G	Ant1	2412	16.689	2403.6424	2420.3314	---	---
11G	Ant1	2437	17.650	2428.0125	2445.6625	---	---
11G	Ant1	2462	18.002	2452.9809	2470.9829	---	---
11N20SISO	Ant1	2412	19.162	2402.4078	2421.5698	---	---
11N20SISO	Ant1	2437	18.863	2427.4071	2446.2701	---	---
11N20SISO	Ant1	2462	19.300	2452.3924	2471.6924	---	---
11N40SISO	Ant1	2422	37.515	2403.2076	2440.7226	---	---
11N40SISO	Ant1	2437	37.191	2418.2404	2455.4314	---	---
11N40SISO	Ant1	2452	37.731	2432.9114	2470.6424	---	---
11AX20SISO	Ant1	2412	19.684	2402.2016	2421.8856	---	---
11AX20SISO	Ant1	2437	19.478	2427.2590	2446.7370	---	---
11AX20SISO	Ant1	2462	18.806	2452.6270	2471.4330	---	---
11AX40SISO	Ant1	2422	37.714	2403.1648	2440.8788	---	---
11AX40SISO	Ant1	2437	37.469	2418.2299	2455.6989	---	---
11AX40SISO	Ant1	2452	37.766	2433.0252	2470.7912	---	---

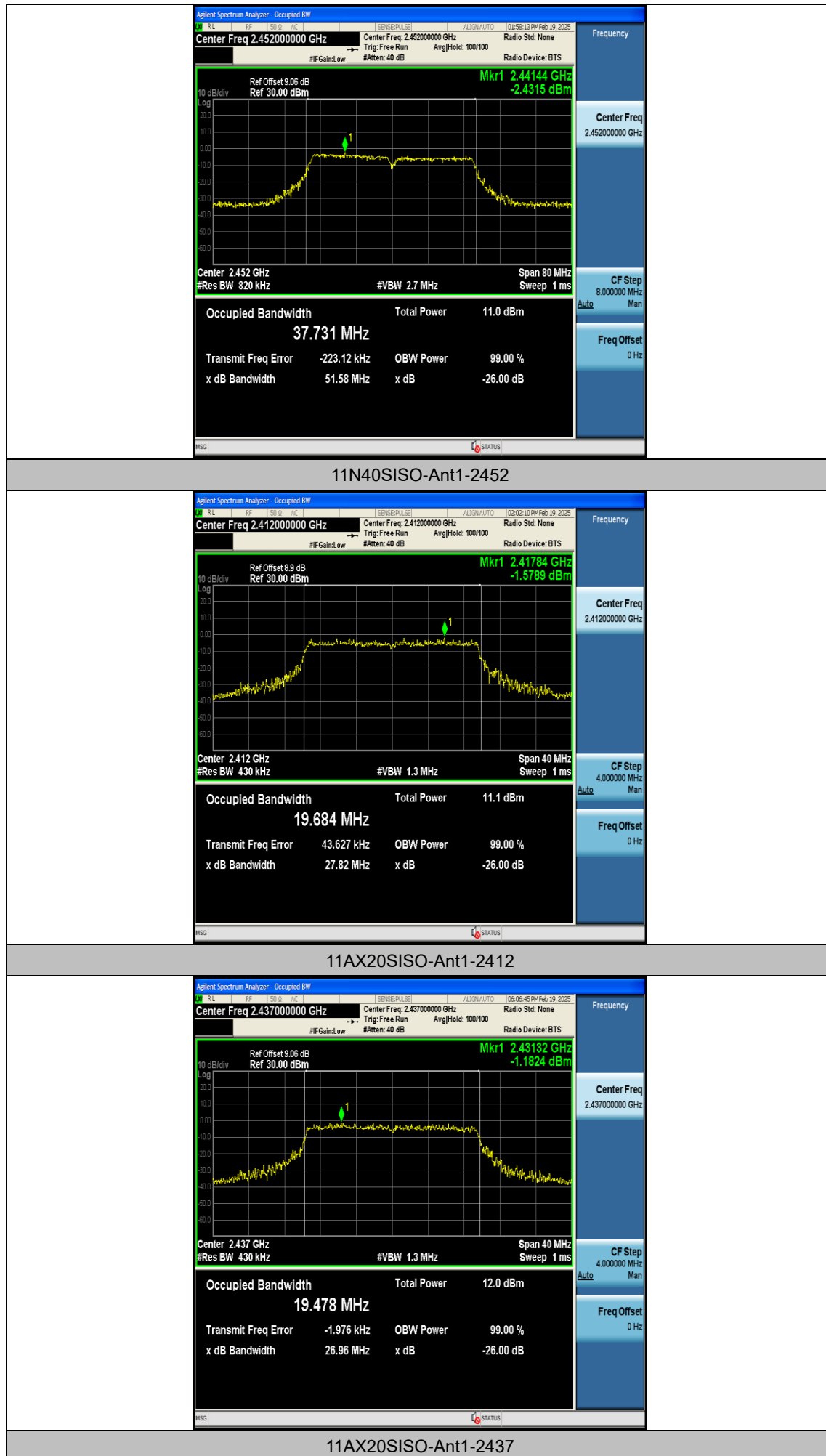
Test Graphs

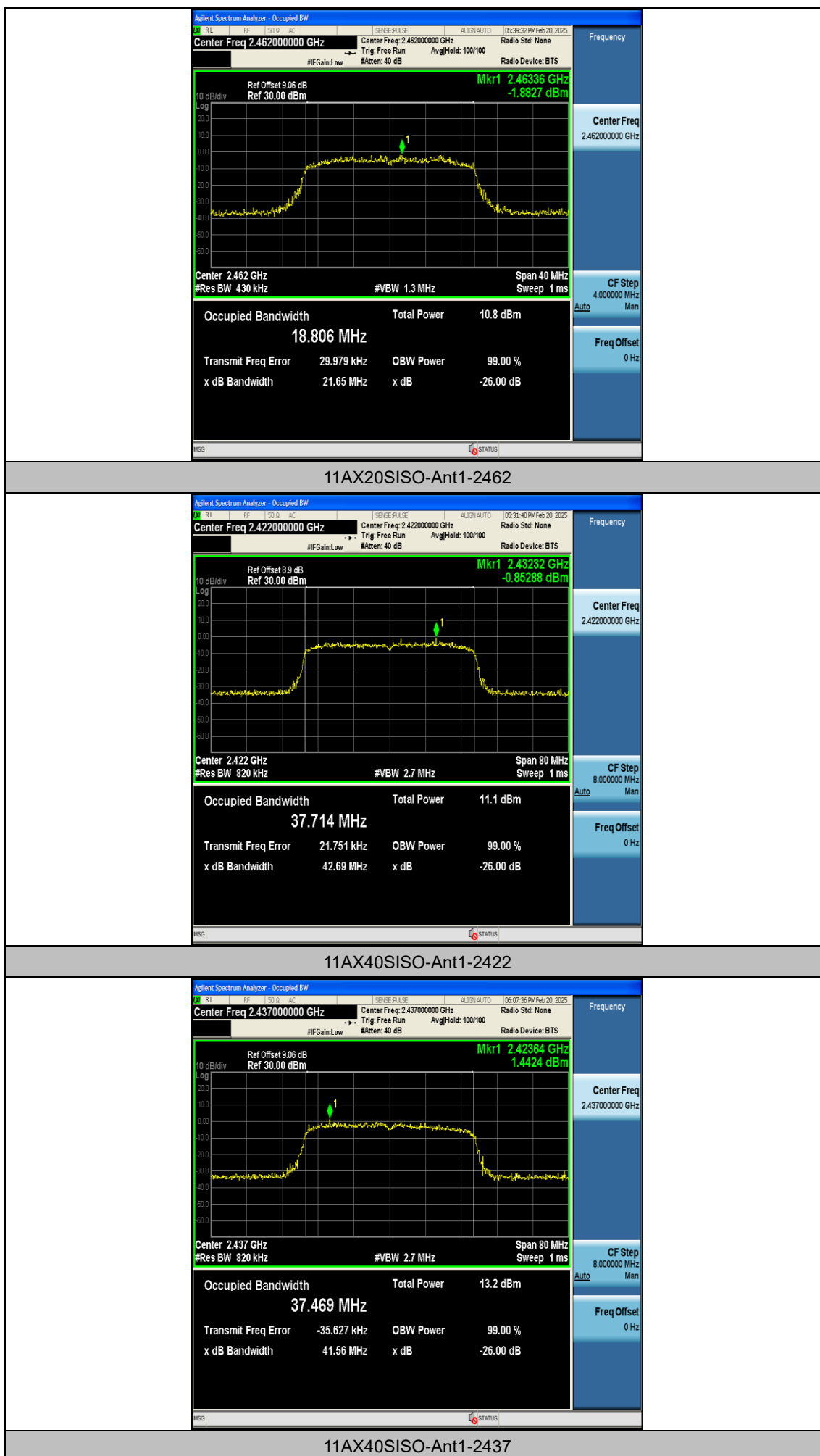


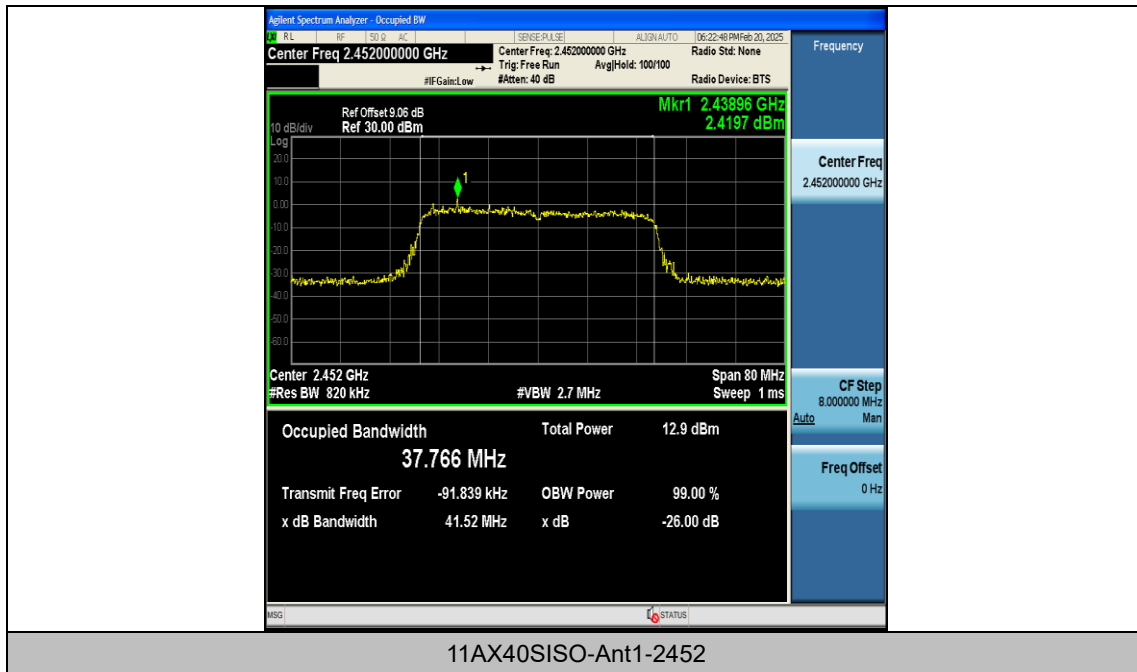












Appendix C: Maximum Average conducted output power

Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Power [dBm]	Conducted Limit [dBm]	Verdict
11B	Ant1	2412	3.63	≤30.00	PASS
11B	Ant1	2437	4.69	≤30.00	PASS
11B	Ant1	2462	3.37	≤30.00	PASS
11G	Ant1	2412	3.85	≤30.00	PASS
11G	Ant1	2437	5.02	≤30.00	PASS
11G	Ant1	2462	3.50	≤30.00	PASS
11N20SISO	Ant1	2412	5.05	≤30.00	PASS
11N20SISO	Ant1	2437	5.13	≤30.00	PASS
11N20SISO	Ant1	2462	5.23	≤30.00	PASS
11N40SISO	Ant1	2422	3.96	≤30.00	PASS
11N40SISO	Ant1	2437	4.86	≤30.00	PASS
11N40SISO	Ant1	2452	4.42	≤30.00	PASS
11AX20SISO	Ant1	2412	3.96	≤30.00	PASS
11AX20SISO	Ant1	2437	5.03	≤30.00	PASS
11AX20SISO	Ant1	2462	3.54	≤30.00	PASS
11AX40SISO	Ant1	2422	3.64	≤30.00	PASS
11AX40SISO	Ant1	2437	4.49	≤30.00	PASS
11AX40SISO	Ant1	2452	5.48	≤30.00	PASS

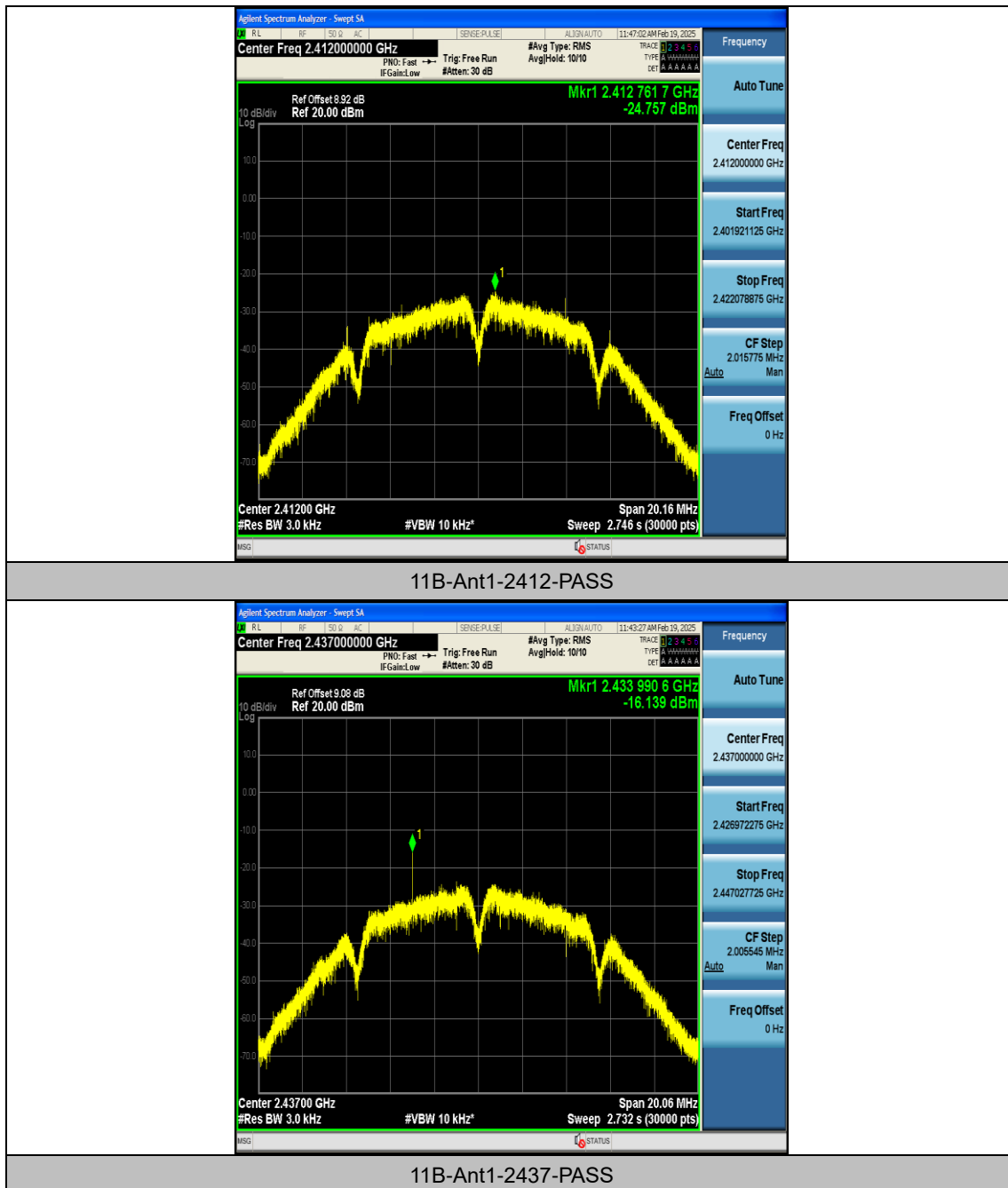
Note: The Duty Cycle Factor is compensated in the result.

Appendix D: Maximum Average power spectral density

Test Result

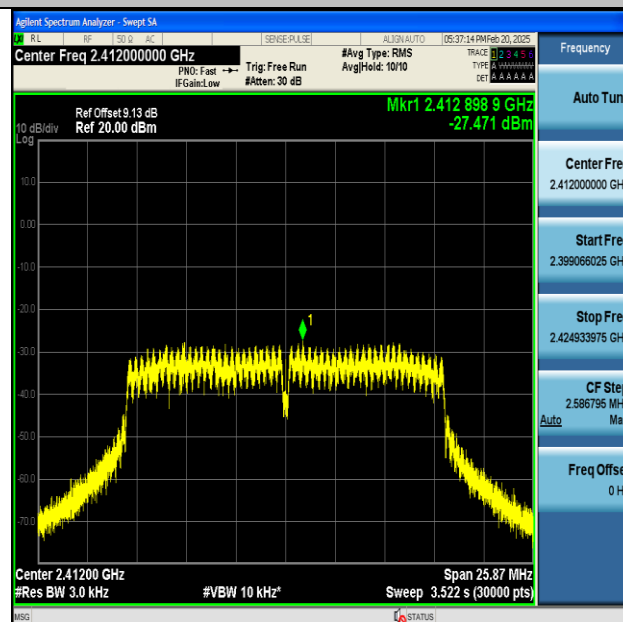
Test Mode	Antenna	Frequency [MHz]	Raw. Data [dBm/3-100kHz]	Dc. Factor	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-24.78	0.02	-24.76	≤8.00	PASS
11B	Ant1	2437	-16.16	0.02	-16.14	≤8.00	PASS
11B	Ant1	2462	-21.65	0.04	-21.61	≤8.00	PASS
11G	Ant1	2412	-27.70	0.23	-27.47	≤8.00	PASS
11G	Ant1	2437	-26.50	0.17	-26.33	≤8.00	PASS
11G	Ant1	2462	-28.02	0.11	-27.91	≤8.00	PASS
11N20SI SO	Ant1	2412	-27.71	0.16	-27.55	≤8.00	PASS
11N20SI SO	Ant1	2437	-26.21	0.16	-26.05	≤8.00	PASS
11N20SI SO	Ant1	2462	-26.69	0.35	-26.34	≤8.00	PASS
11N40SI SO	Ant1	2422	-30.21	0.77	-29.44	≤8.00	PASS
11N40SI SO	Ant1	2437	-29.01	0.92	-28.09	≤8.00	PASS
11N40SI SO	Ant1	2452	-29.60	0.92	-28.68	≤8.00	PASS
11AX20S ISO	Ant1	2412	-30.06	0.32	-29.74	≤8.00	PASS
11AX20S ISO	Ant1	2437	-28.88	0.35	-28.53	≤8.00	PASS
11AX20S ISO	Ant1	2462	-29.56	0.34	-29.22	≤8.00	PASS
11AX40S ISO	Ant1	2422	-31.52	0.64	-30.88	≤8.00	PASS
11AX40S ISO	Ant1	2437	-30.07	0.75	-29.32	≤8.00	PASS
11AX40S ISO	Ant1	2452	-30.69	1.09	-29.60	≤8.00	PASS

Test Graphs

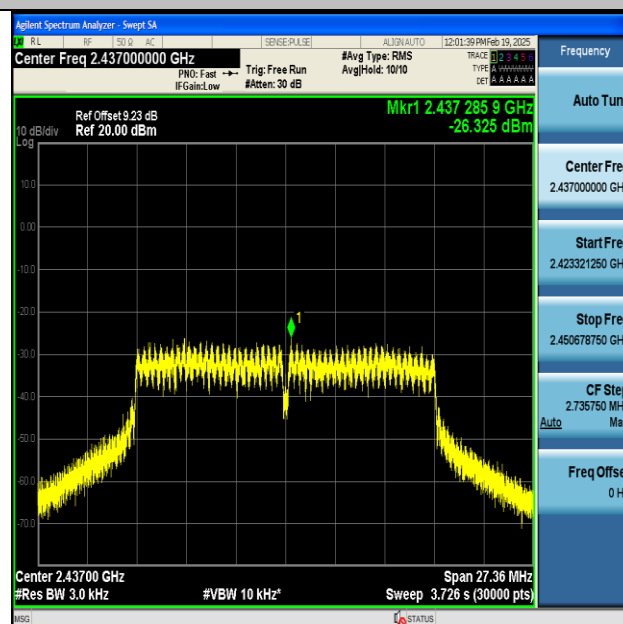




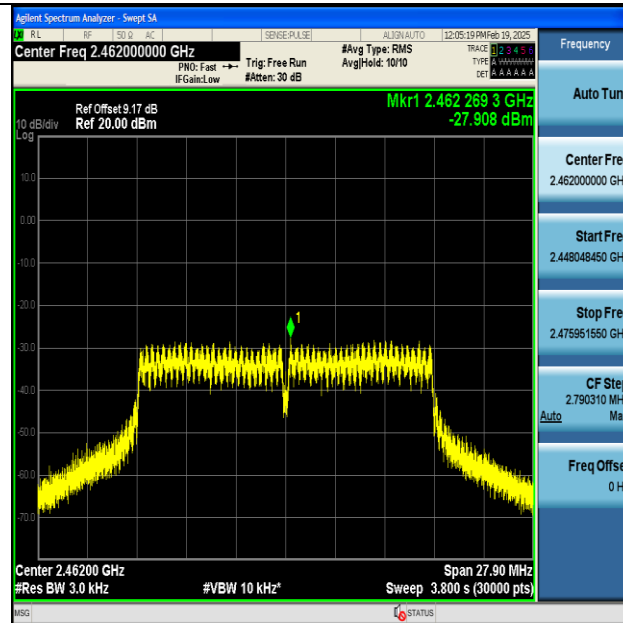
11B-Ant1-2462-PASS



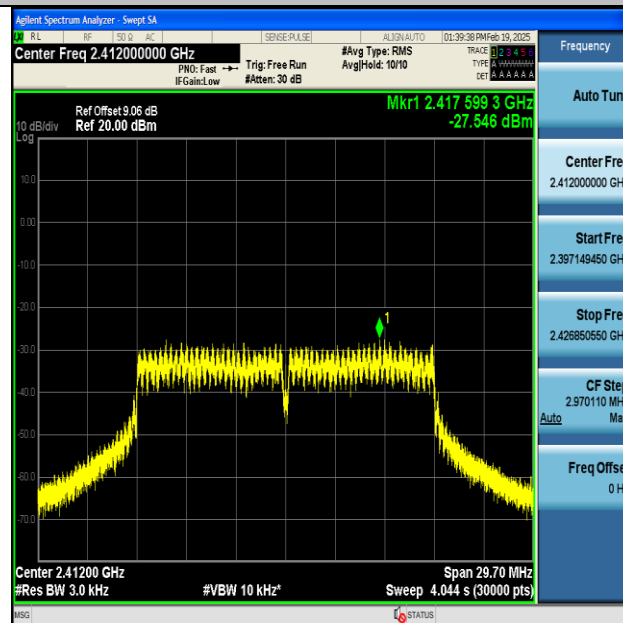
11G-Ant1-2412-PASS



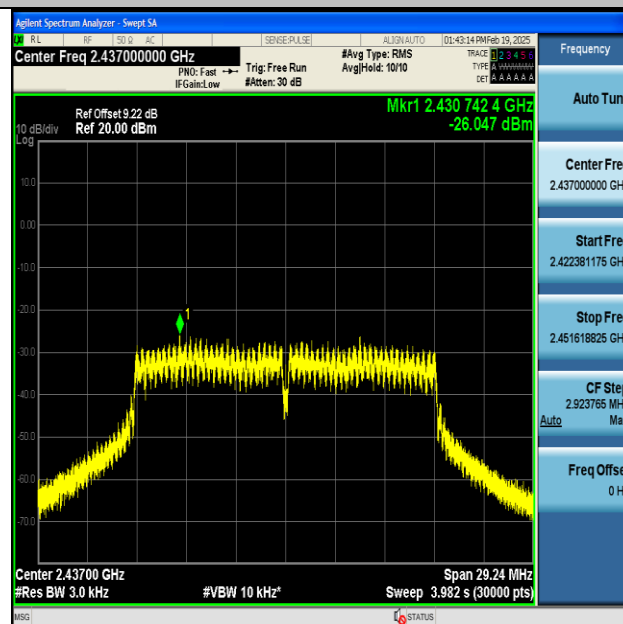
11G-Ant1-2437-PASS



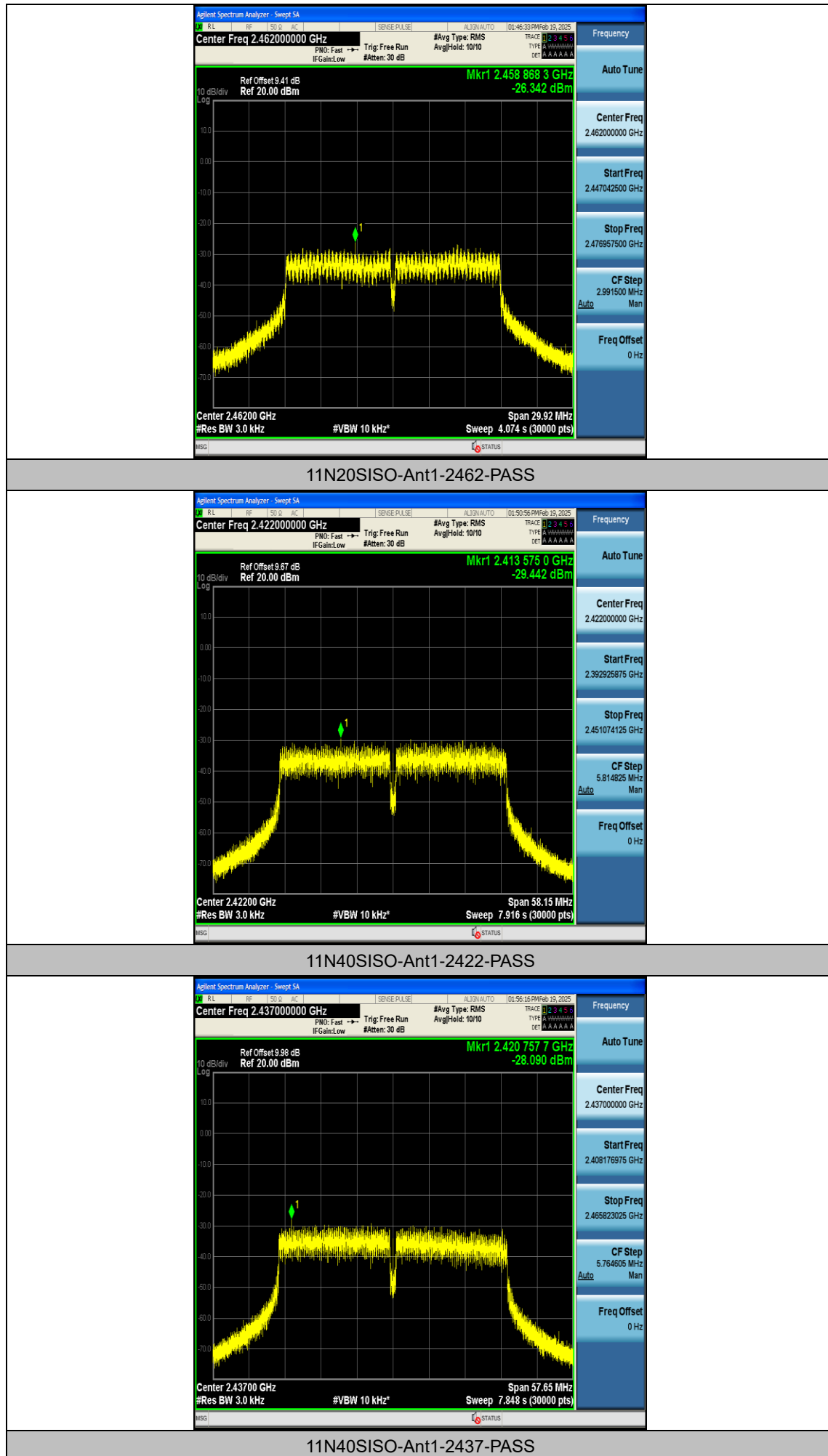
11G-Ant1-2462-PASS

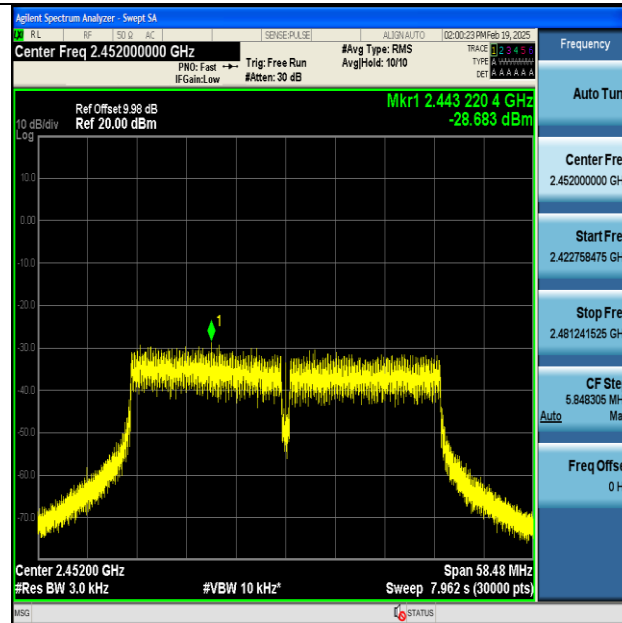


11N20SISO-Ant1-2412-PASS

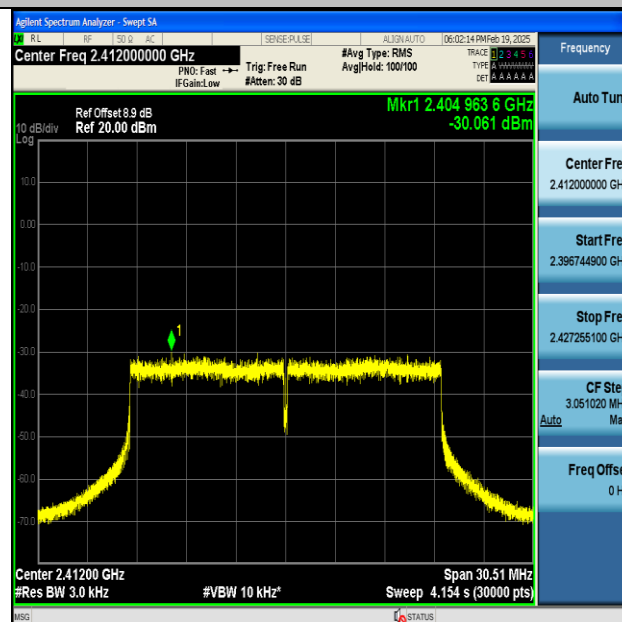


11N20SISO-Ant1-2437-PASS

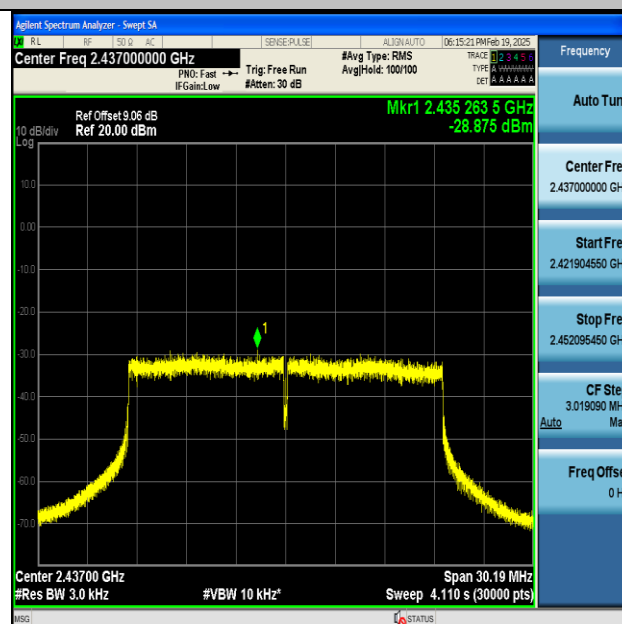




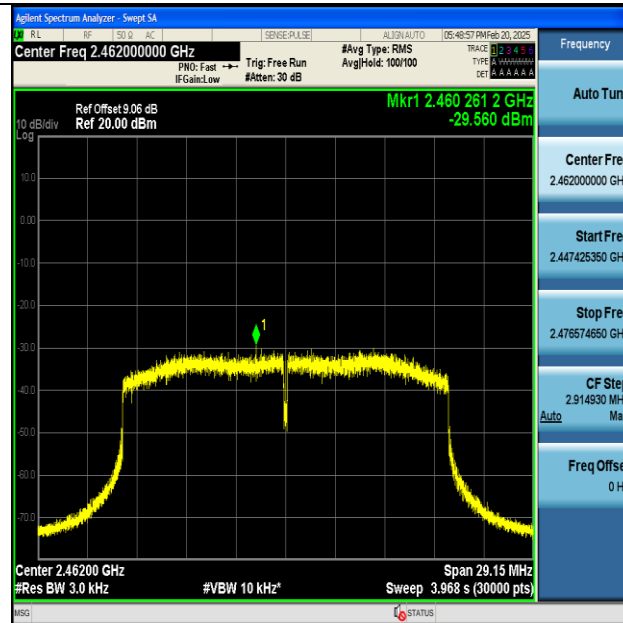
11N40SISO-Ant1-2452-PASS



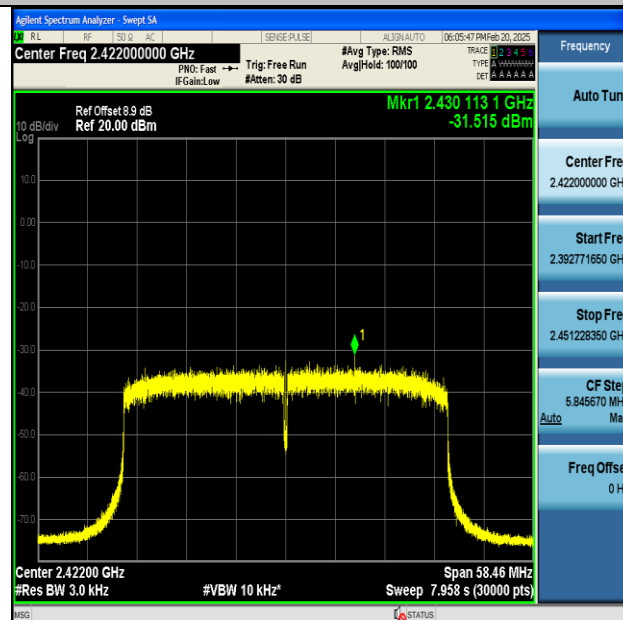
11AX20SISO-Ant1-2412-PASS



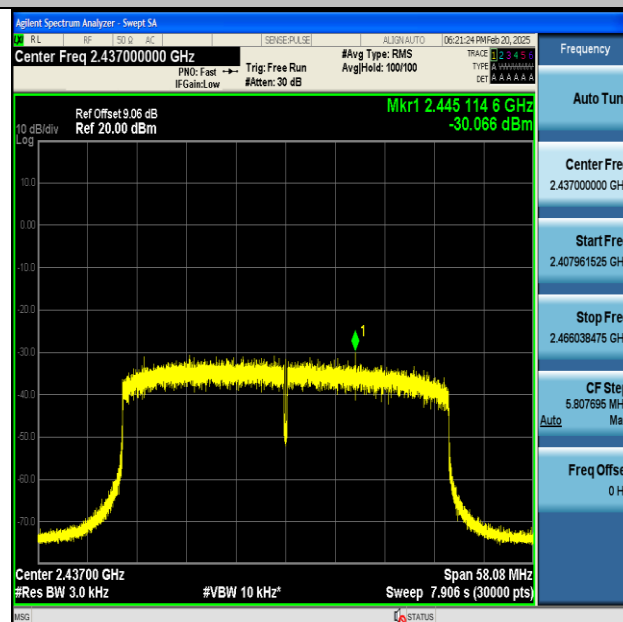
11AX20SISO-Ant1-2437-PASS



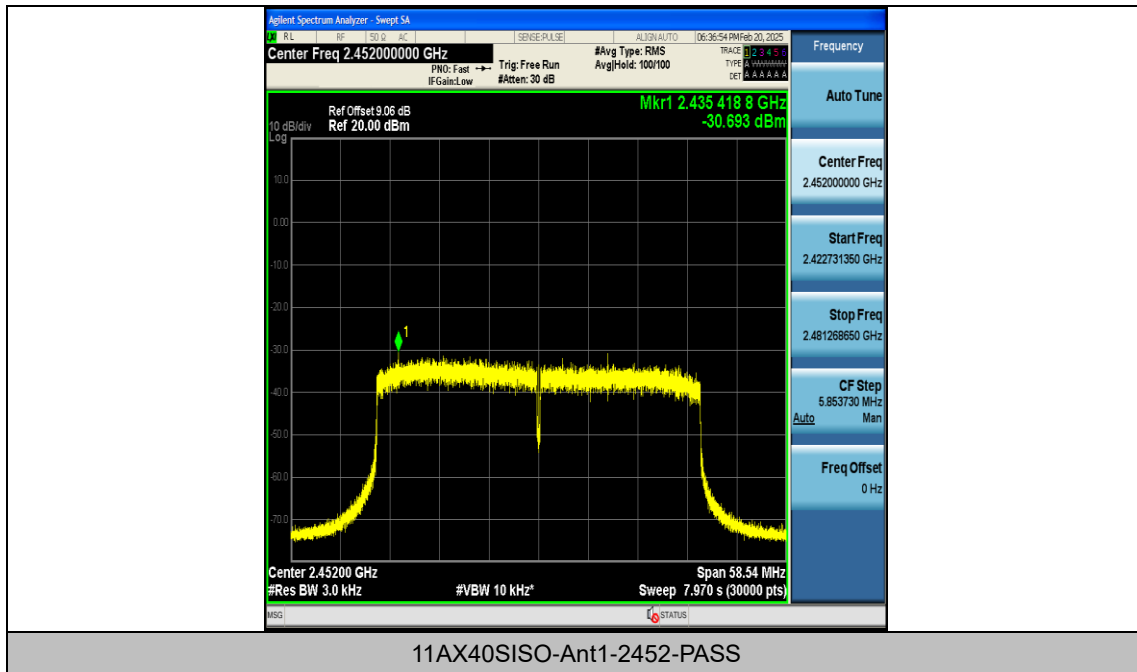
11AX20SISO-Ant1-2462-PASS



11AX40SISO-Ant1-2422-PASS



11AX40SISO-Ant1-2437-PASS

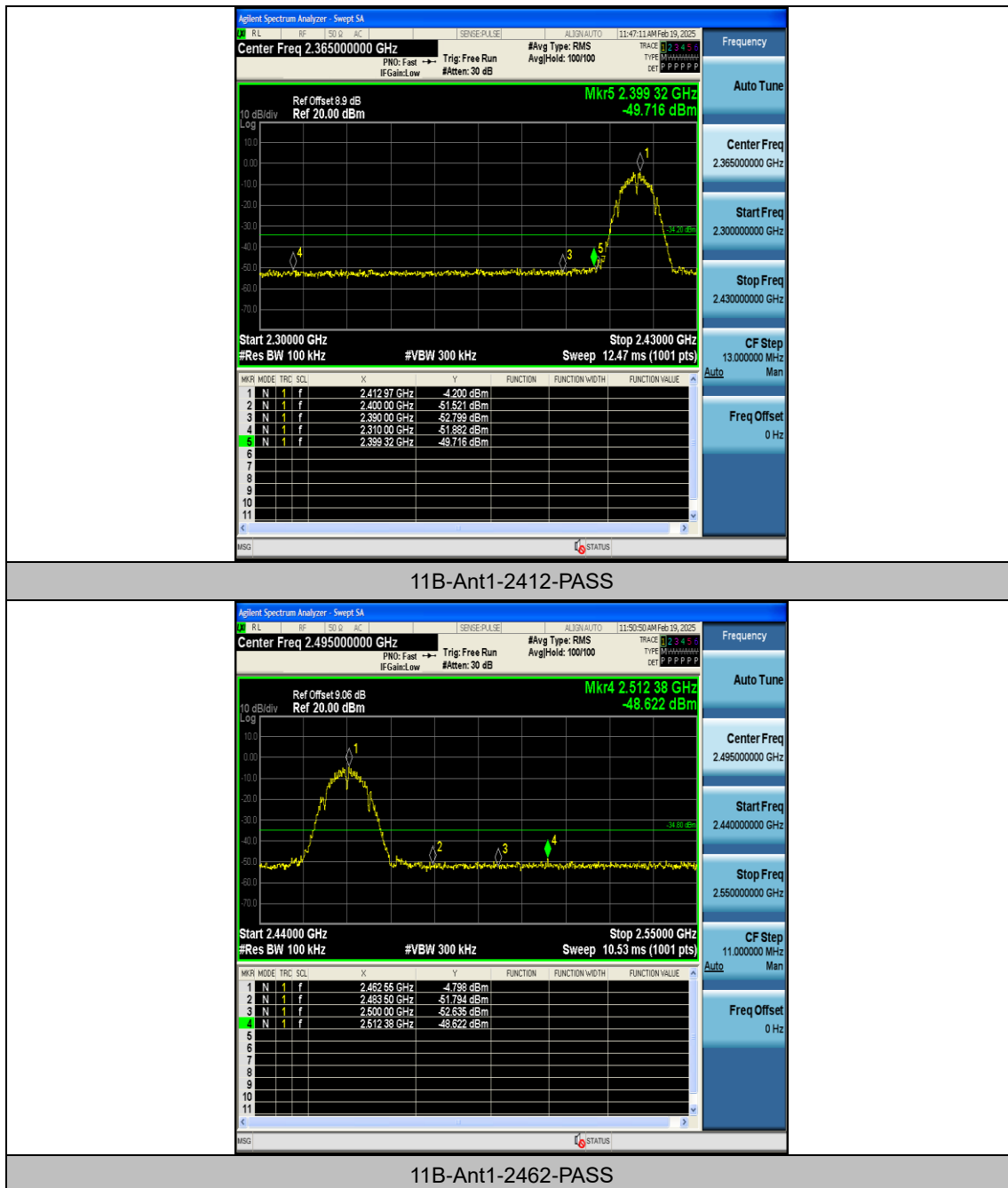


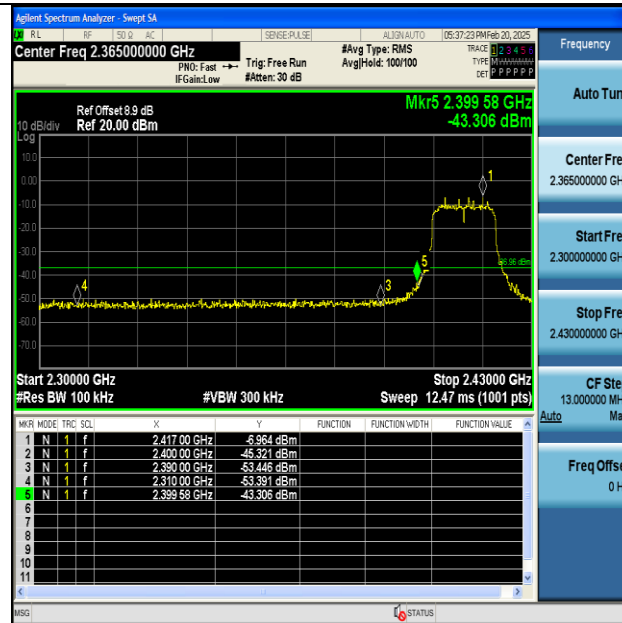
Appendix E: Band edge measurements

Test Result

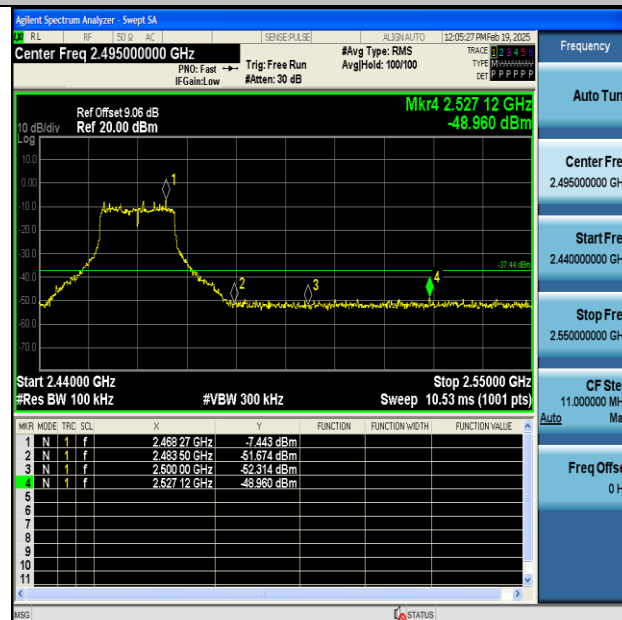
Test Mode	Antenna	Ch. Name	Frequency. [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	-4.20	-49.72	≤ -34.2	PASS
11B	Ant1	High	2462	-4.80	-48.62	≤ -34.8	PASS
11G	Ant1	Low	2412	-6.96	-43.31	≤ -36.96	PASS
11G	Ant1	High	2462	-7.44	-48.96	≤ -37.44	PASS
11N20SI SO	Ant1	Low	2412	-5.42	-38.14	≤ -35.42	PASS
11N20SI SO	Ant1	High	2462	-5.89	-49.05	≤ -35.89	PASS
11N40SI SO	Ant1	Low	2422	-10.72	-44.42	≤ -40.72	PASS
11N40SI SO	Ant1	High	2452	-10.17	-48.74	≤ -40.17	PASS
11AX20S ISO	Ant1	Low	2412	-5.64	-38.48	≤ -35.64	PASS
11AX20S ISO	Ant1	High	2462	-6.85	-48.64	≤ -36.85	PASS
11AX40S ISO	Ant1	Low	2422	-10.50	-45.52	≤ -40.5	PASS
11AX40S ISO	Ant1	High	2452	-8.71	-47.53	≤ -38.71	PASS

Test Graphs

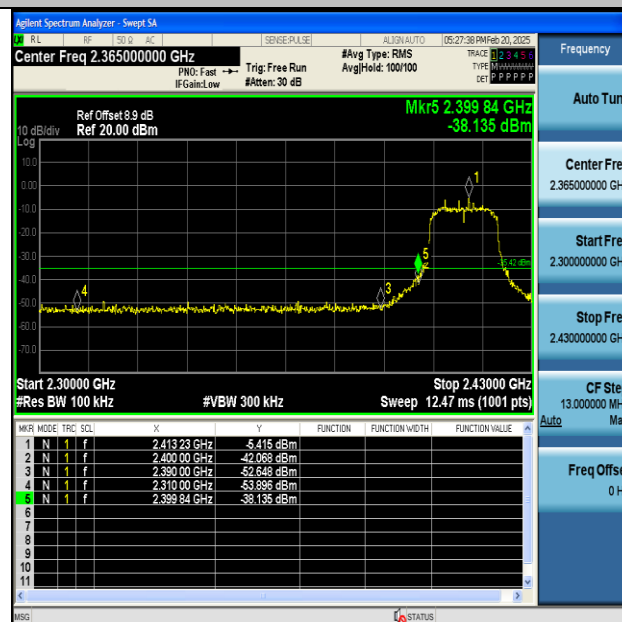




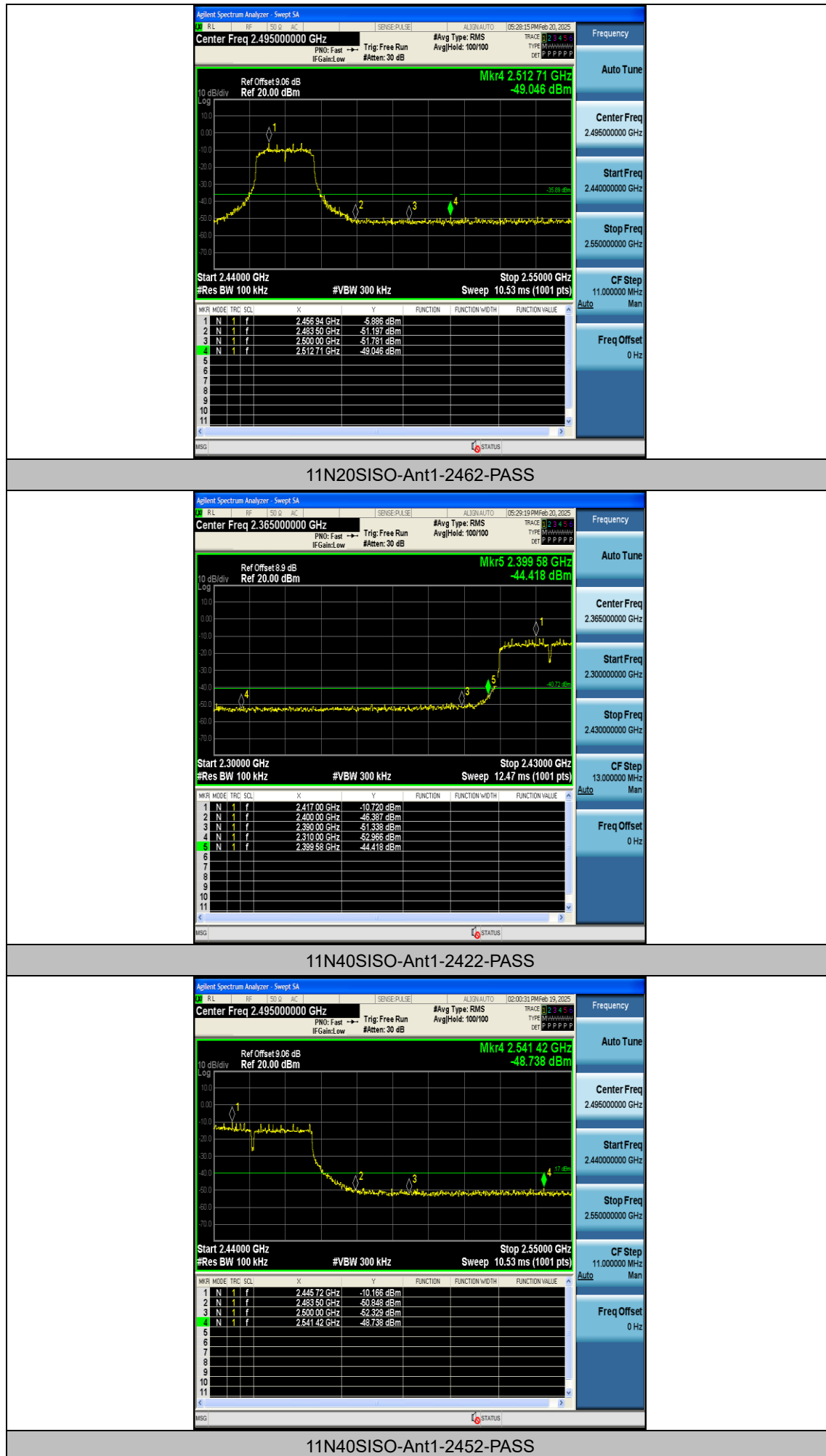
11G-Ant1-2412-PASS

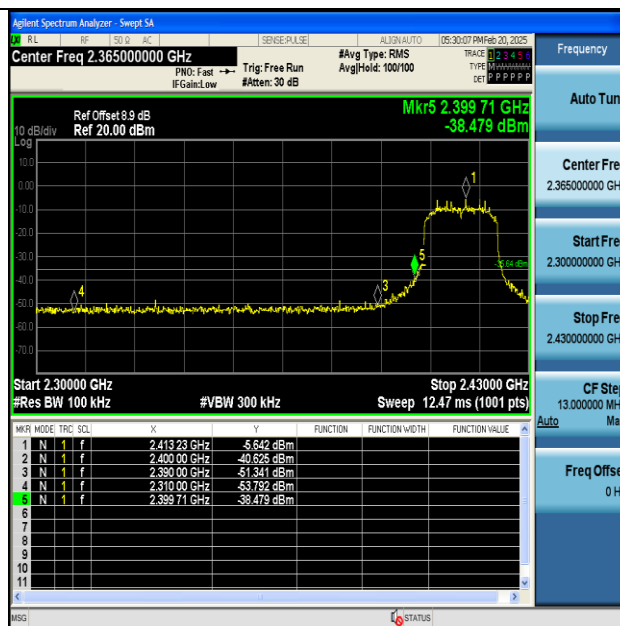


11G-Ant1-2462-PASS

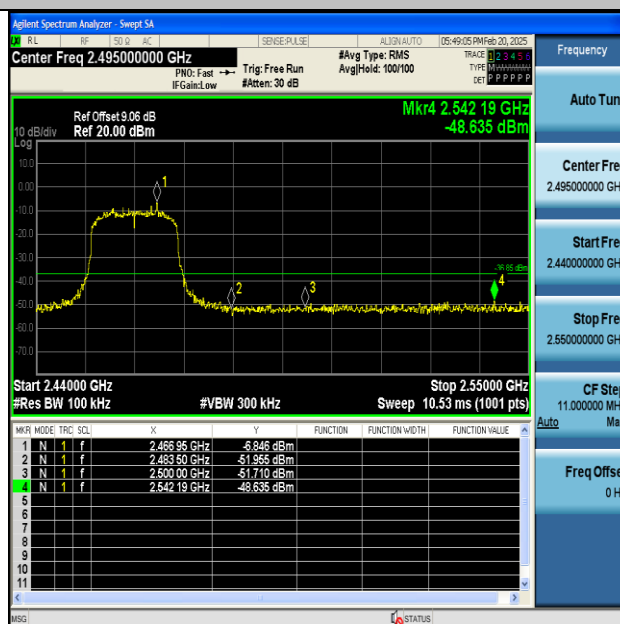


11N20SISO-Ant1-2412-PASS

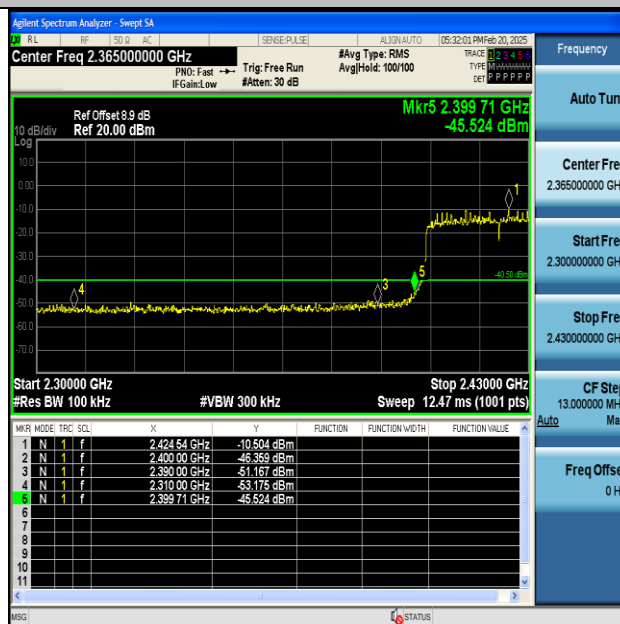




11AX20SISO-Ant1-2412-PASS



11AX20SISO-Ant1-2462-PASS



11AX40SISO-Ant1-2422-PASS