

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

Product Name: Sense 1 Guardian

Trade Mark: N/A

Test Model: NK200

FCC ID: 2BH8Y-NK200

Environmental Conditions

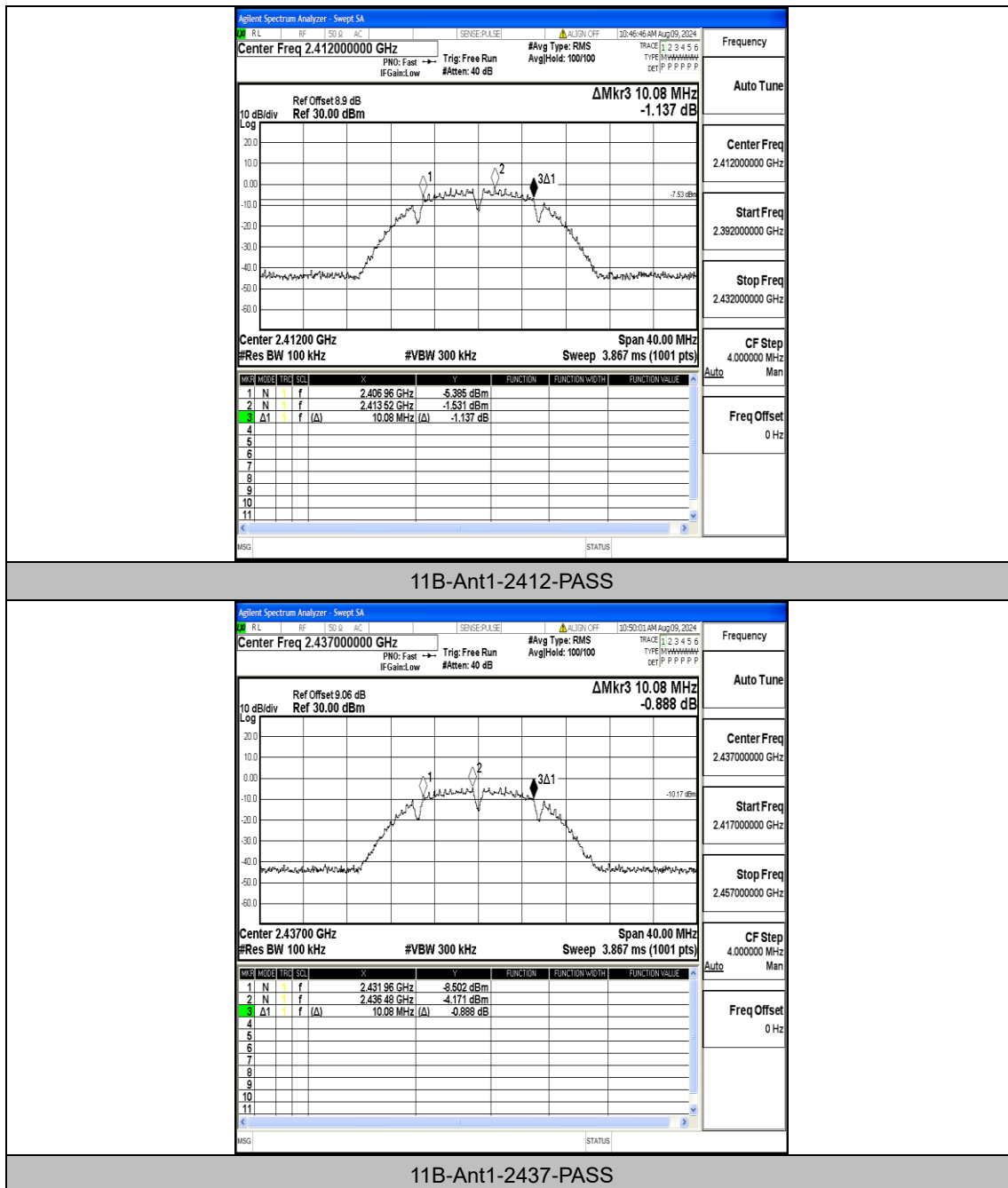
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

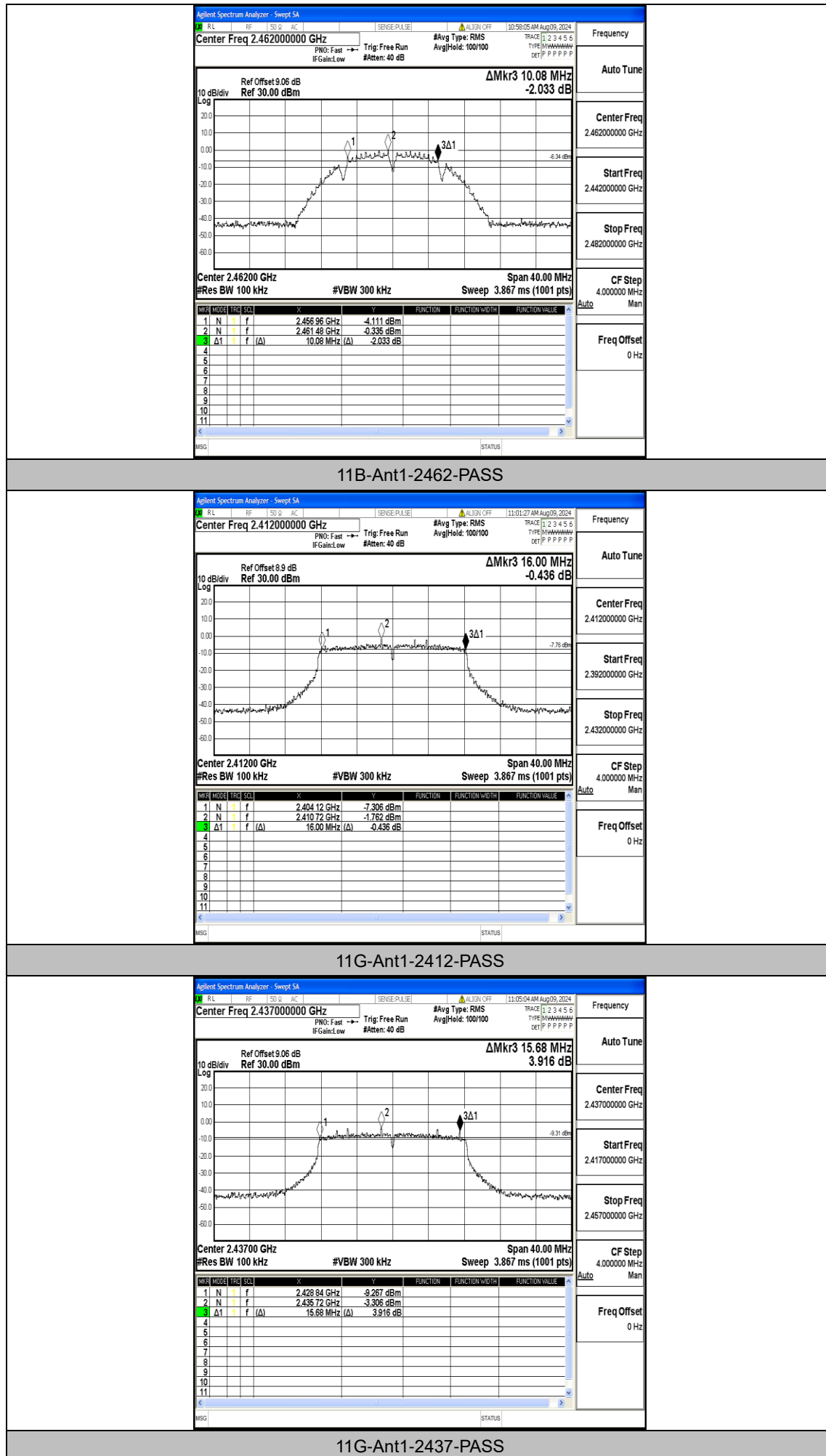
Appendix A: DTS Bandwidth

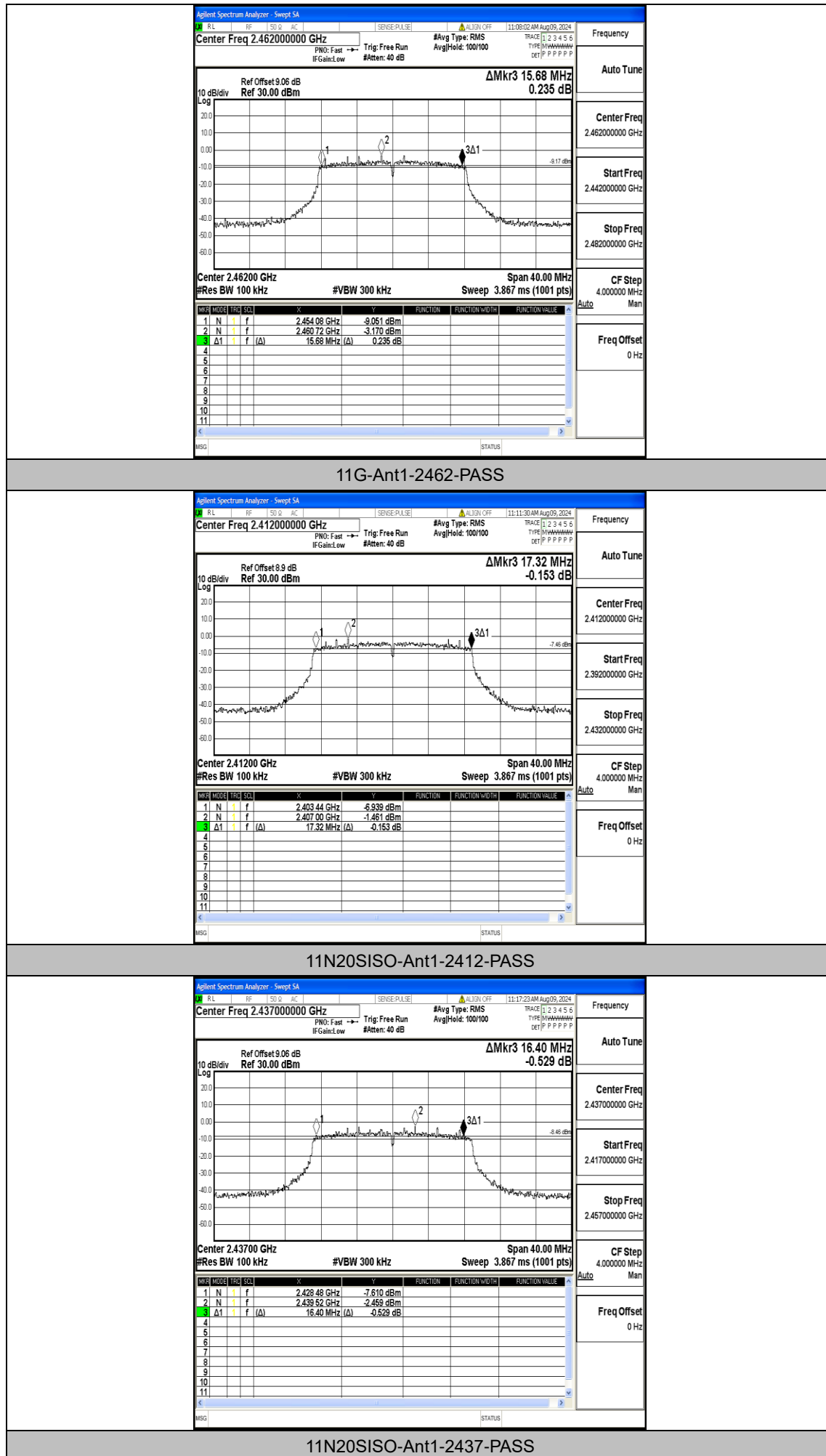
Test Result

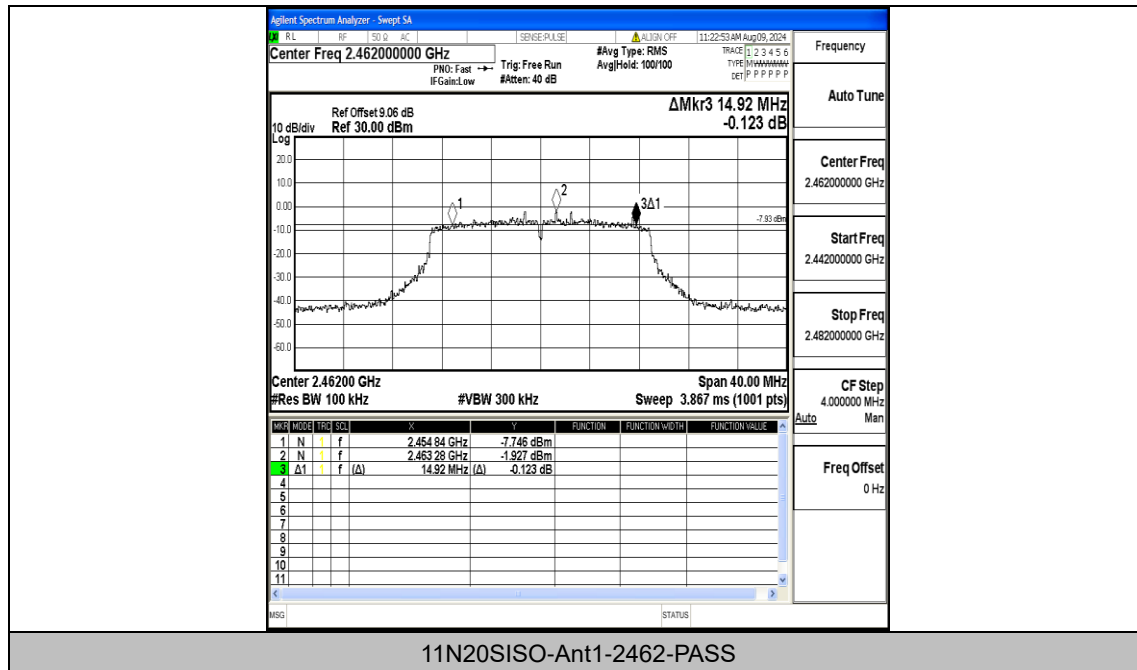
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.080	2406.960	2417.040	0.5	PASS
11B	Ant1	2437	10.080	2431.960	2442.040	0.5	PASS
11B	Ant1	2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant1	2412	16.000	2404.120	2420.120	0.5	PASS
11G	Ant1	2437	15.680	2428.840	2444.520	0.5	PASS
11G	Ant1	2462	15.680	2454.080	2469.760	0.5	PASS
11N20SISO	Ant1	2412	17.320	2403.440	2420.760	0.5	PASS
11N20SISO	Ant1	2437	16.400	2428.480	2444.880	0.5	PASS
11N20SISO	Ant1	2462	14.920	2454.840	2469.760	0.5	PASS

Test Graphs







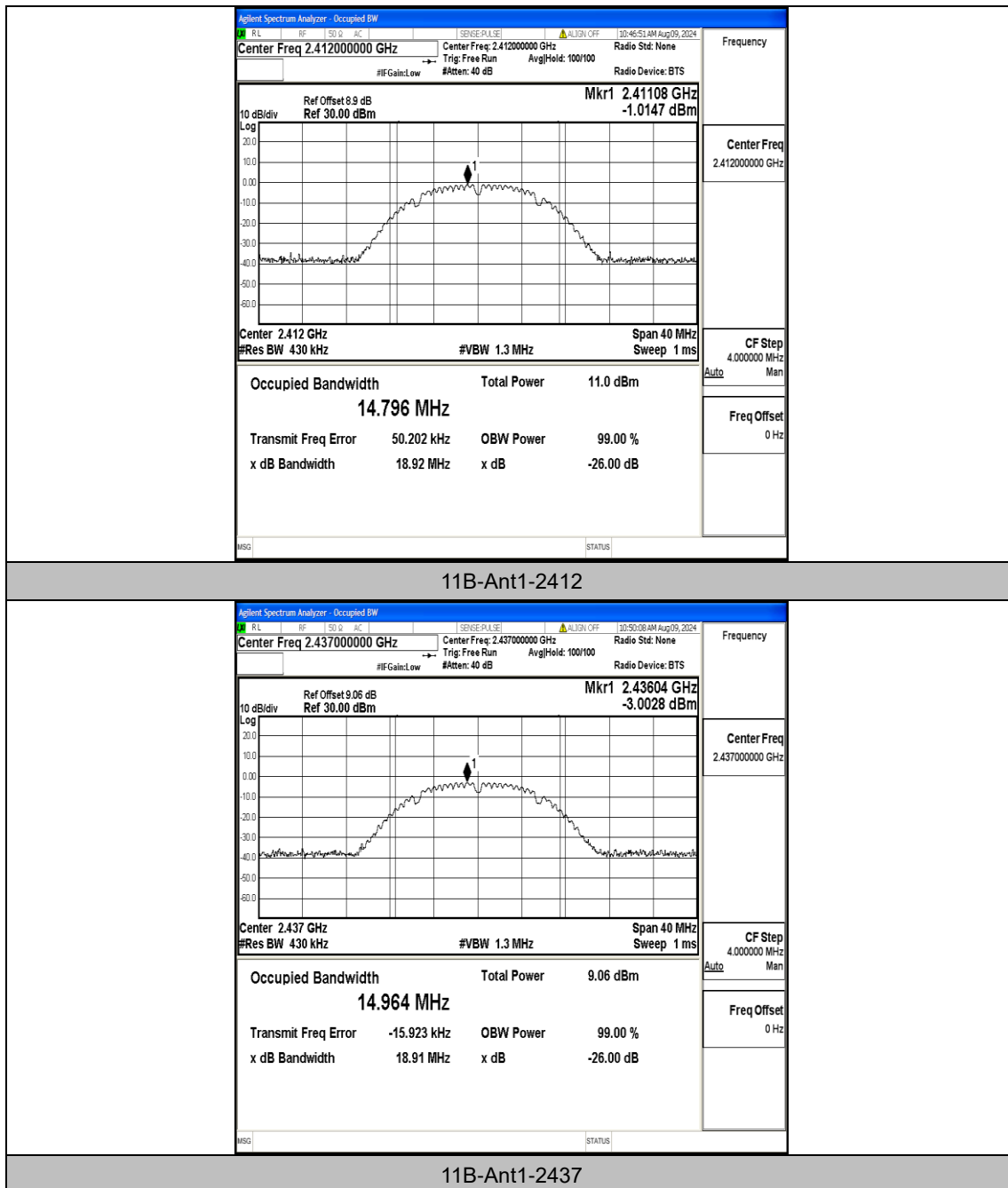


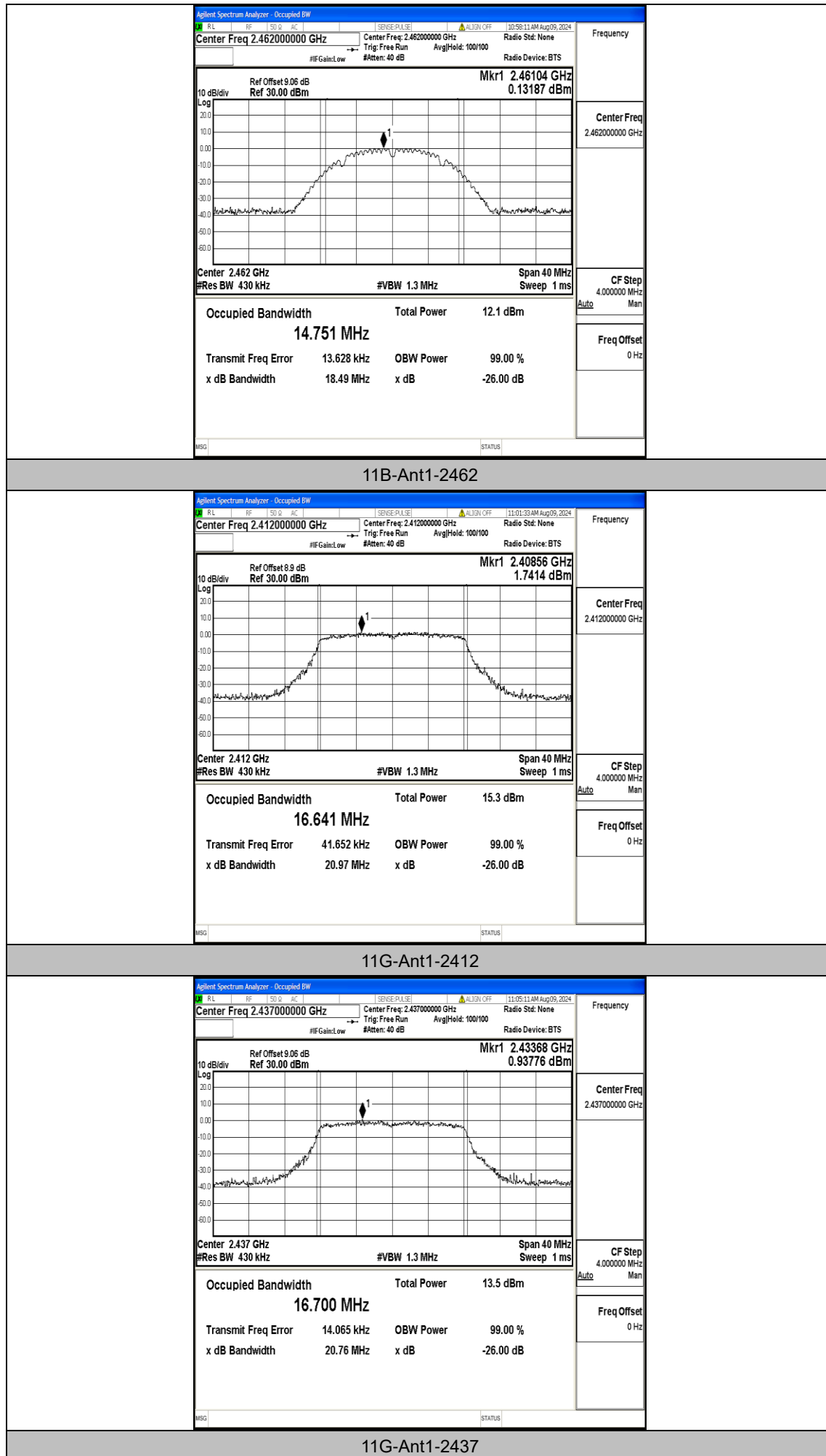
Appendix B: Occupied Channel Bandwidth

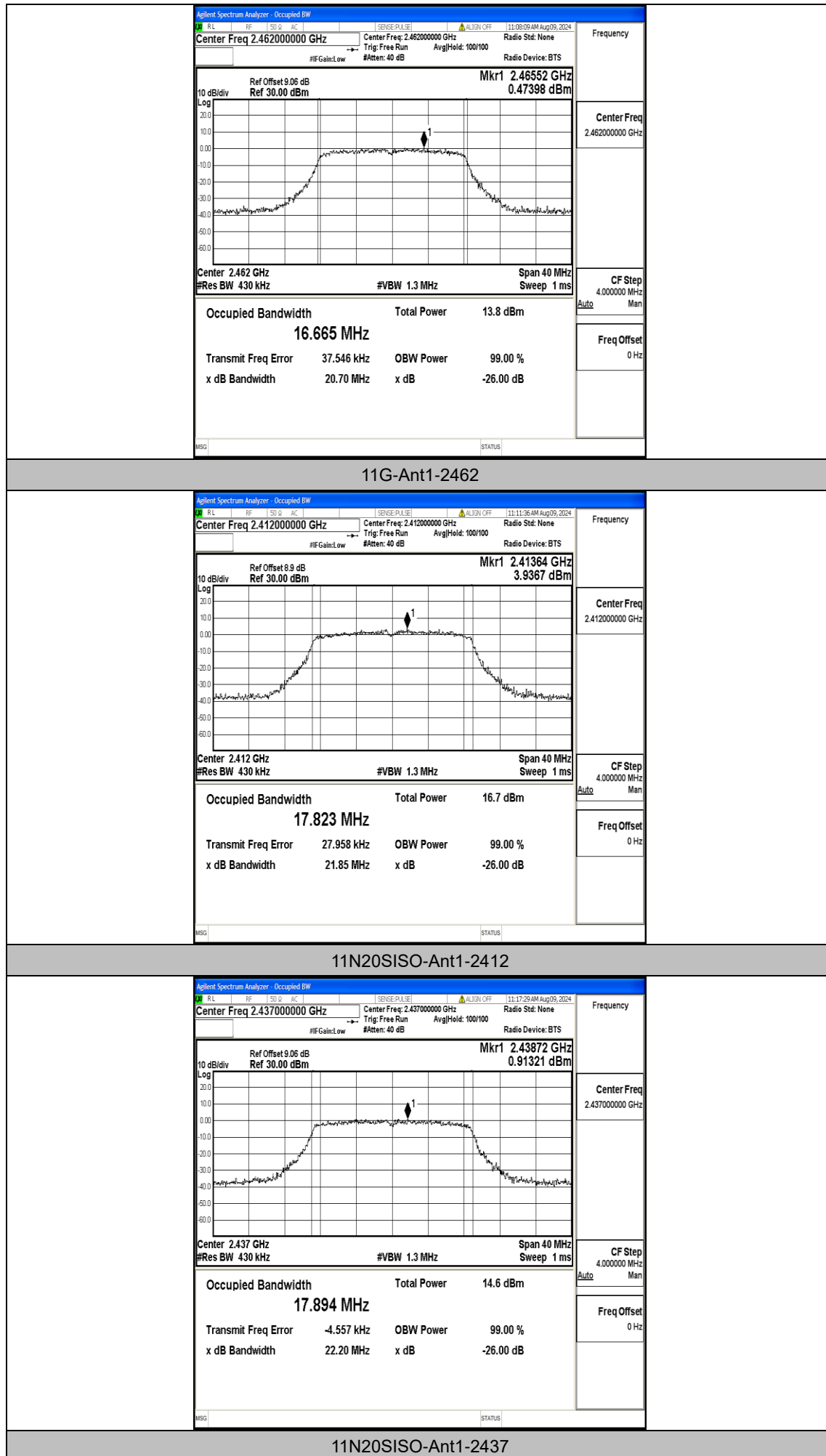
Test Result

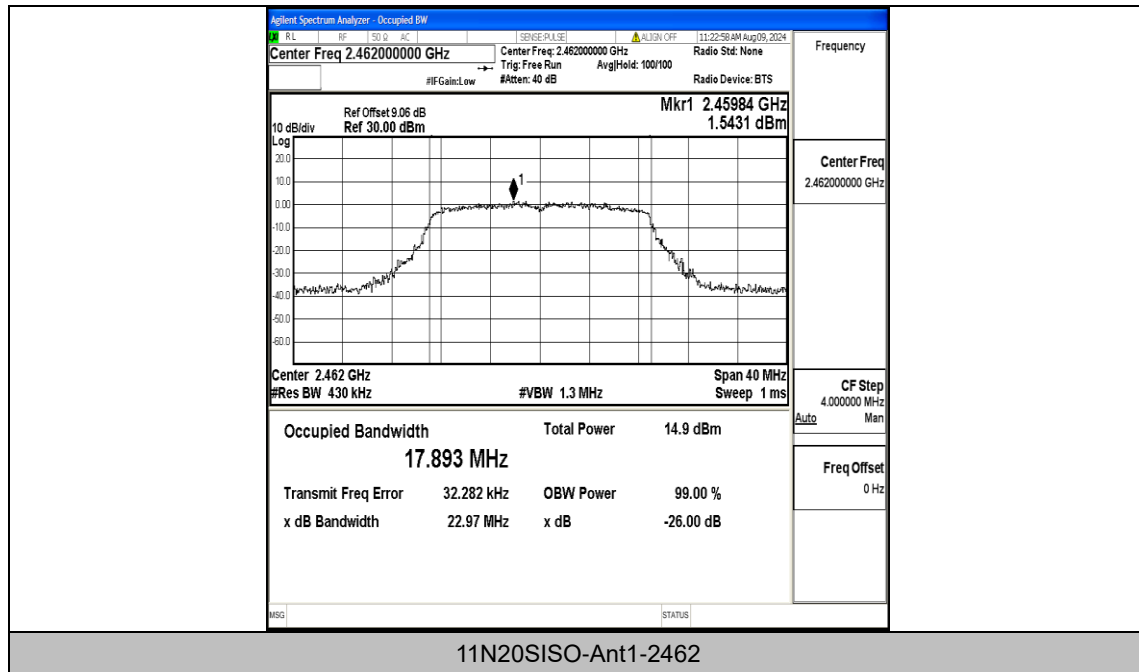
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.796	2404.6522	2419.4482	---	---
11B	Ant1	2437	14.964	2429.5021	2444.4661	---	---
11B	Ant1	2462	14.751	2454.6381	2469.3891	---	---
11G	Ant1	2412	16.641	2403.7212	2420.3622	---	---
11G	Ant1	2437	16.700	2428.6641	2445.3641	---	---
11G	Ant1	2462	16.665	2453.7051	2470.3701	---	---
11N20SISO	Ant1	2412	17.823	2403.1165	2420.9395	---	---
11N20SISO	Ant1	2437	17.894	2428.0484	2445.9424	---	---
11N20SISO	Ant1	2462	17.893	2453.0858	2470.9788	---	---

Test Graphs









Appendix C: Maximum Average conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	1.94	≤30.00	PASS
11B	Ant1	2437	1.05	≤30.00	PASS
11B	Ant1	2462	2.06	≤30.00	PASS
11G	Ant1	2412	2.30	≤30.00	PASS
11G	Ant1	2437	1.83	≤30.00	PASS
11G	Ant1	2462	2.10	≤30.00	PASS
11N20SISO	Ant1	2412	2.37	≤30.00	PASS
11N20SISO	Ant1	2437	1.74	≤30.00	PASS
11N20SISO	Ant1	2462	2.11	≤30.00	PASS

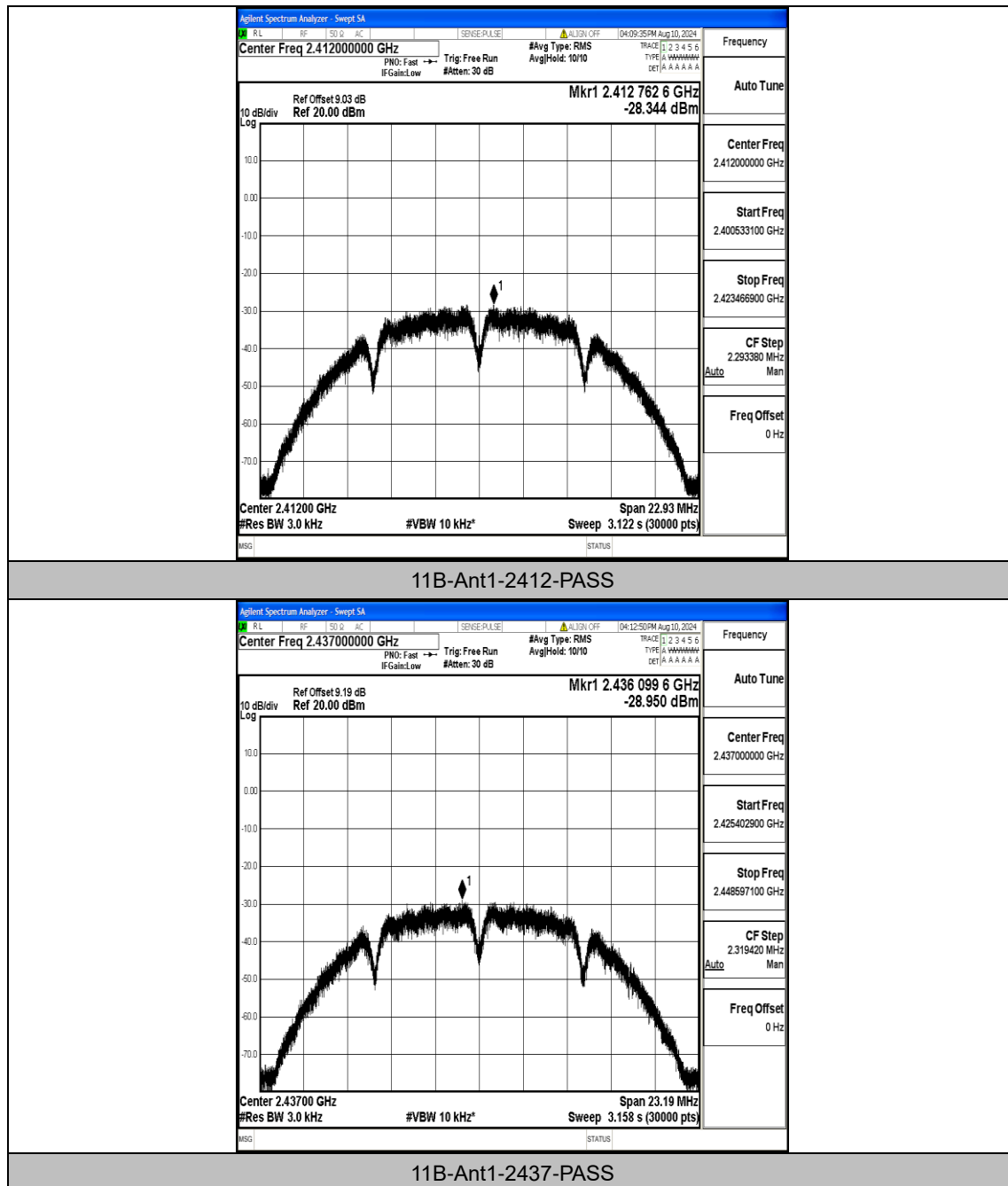
Note: The Duty Cycle Factor is compensated in the result.

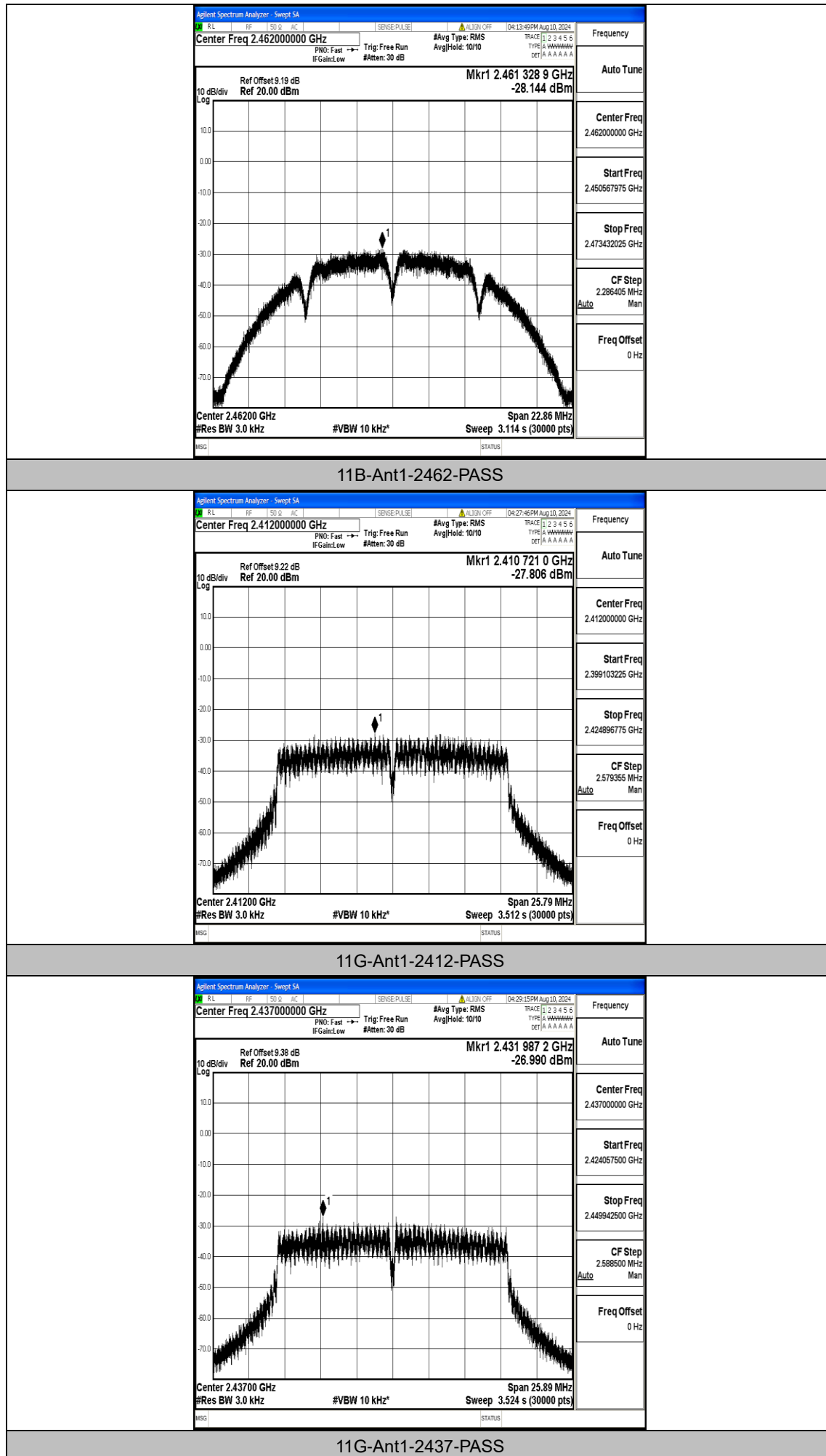
Appendix D: Maximum Average power spectral density

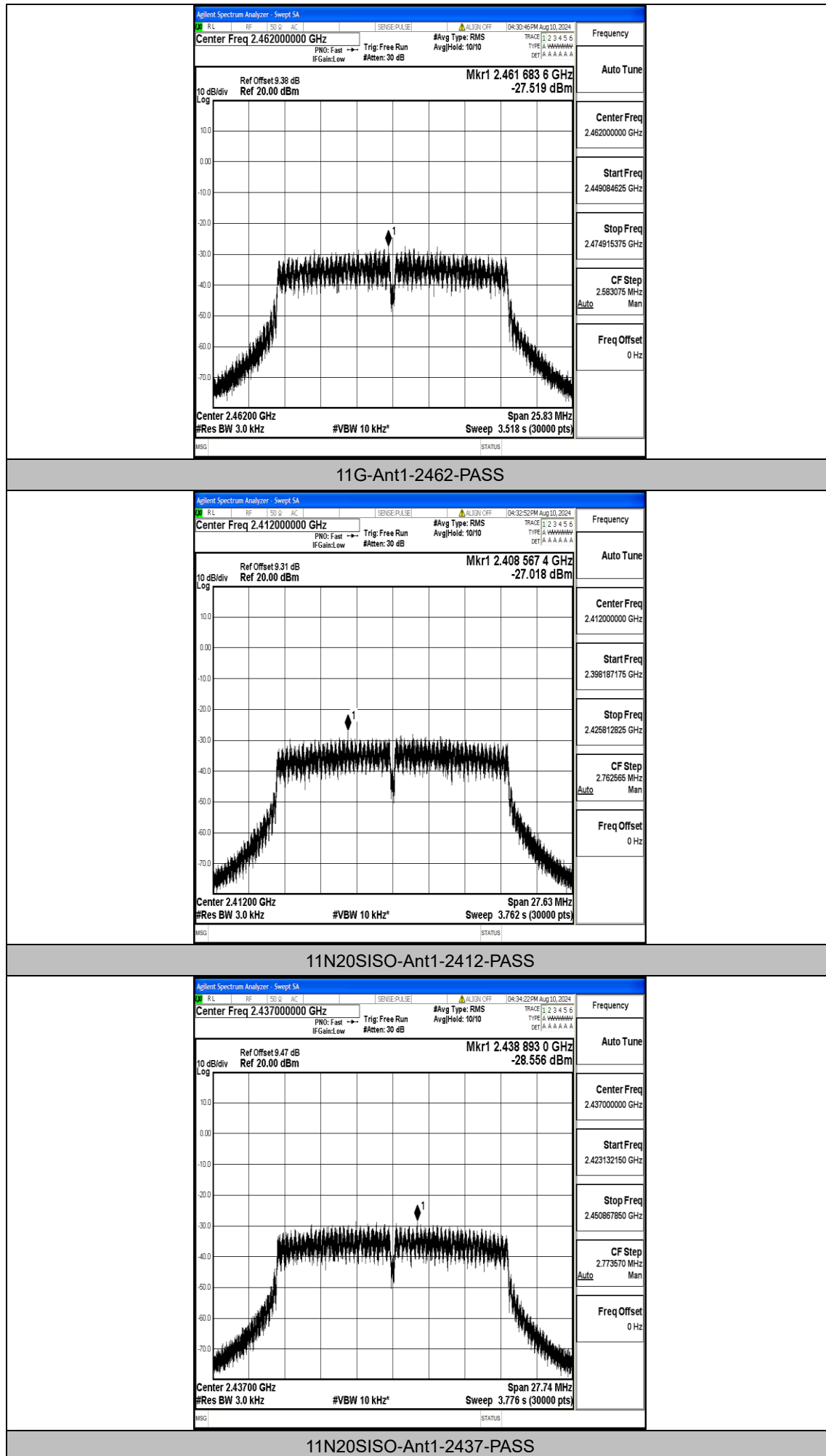
Test Result

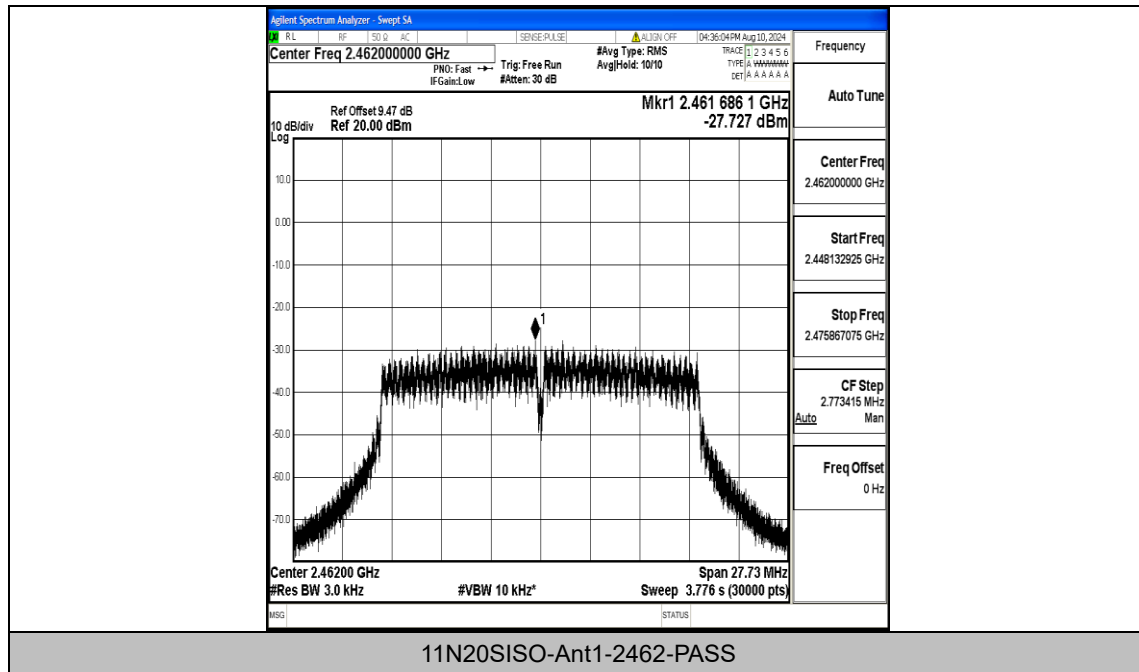
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-28.34	≤8.00	PASS
11B	Ant1	2437	-28.95	≤8.00	PASS
11B	Ant1	2462	-28.14	≤8.00	PASS
11G	Ant1	2412	-27.81	≤8.00	PASS
11G	Ant1	2437	-26.99	≤8.00	PASS
11G	Ant1	2462	-27.52	≤8.00	PASS
11N20SISO	Ant1	2412	-27.02	≤8.00	PASS
11N20SISO	Ant1	2437	-28.56	≤8.00	PASS
11N20SISO	Ant1	2462	-27.73	≤8.00	PASS

Test Graphs







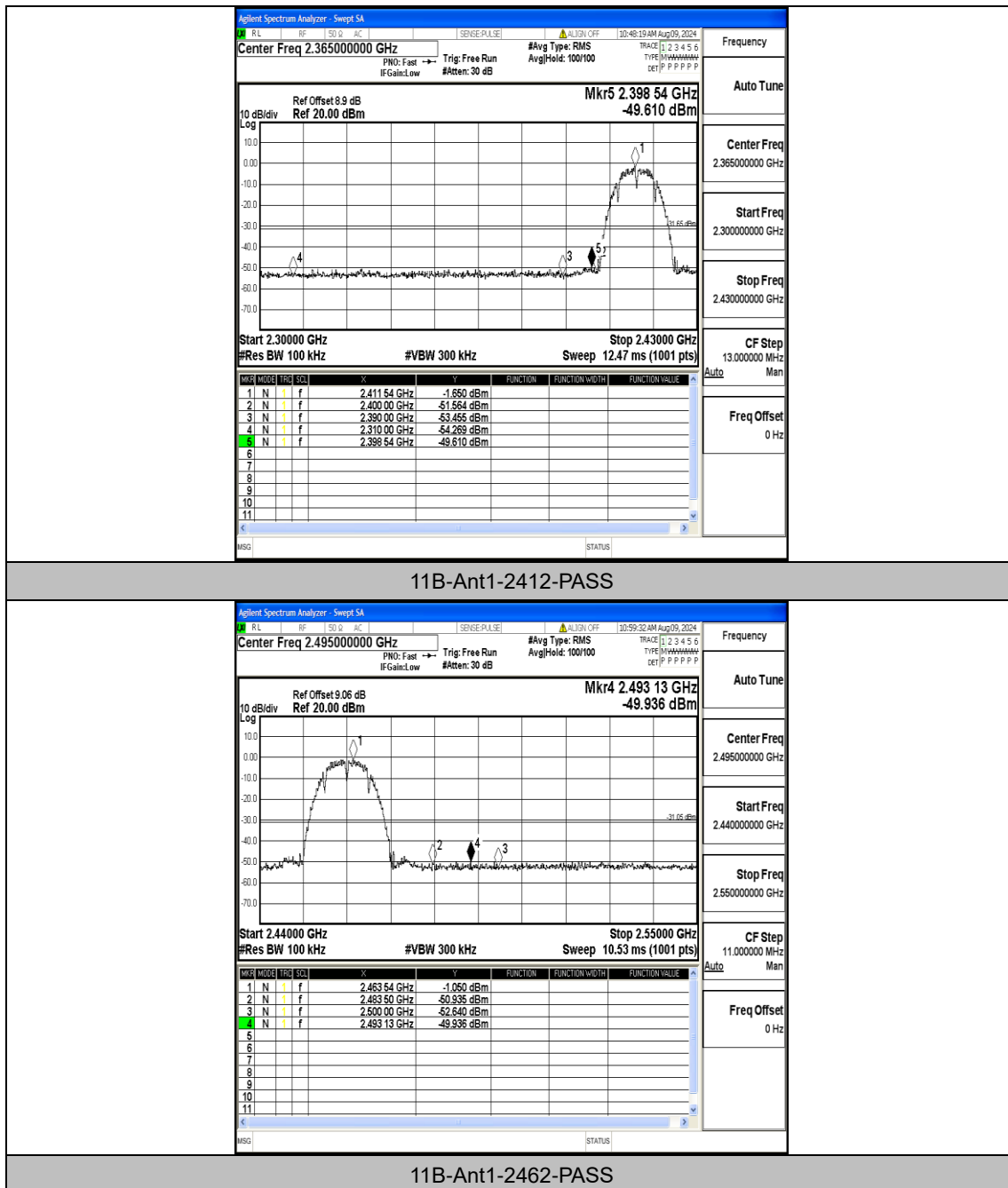


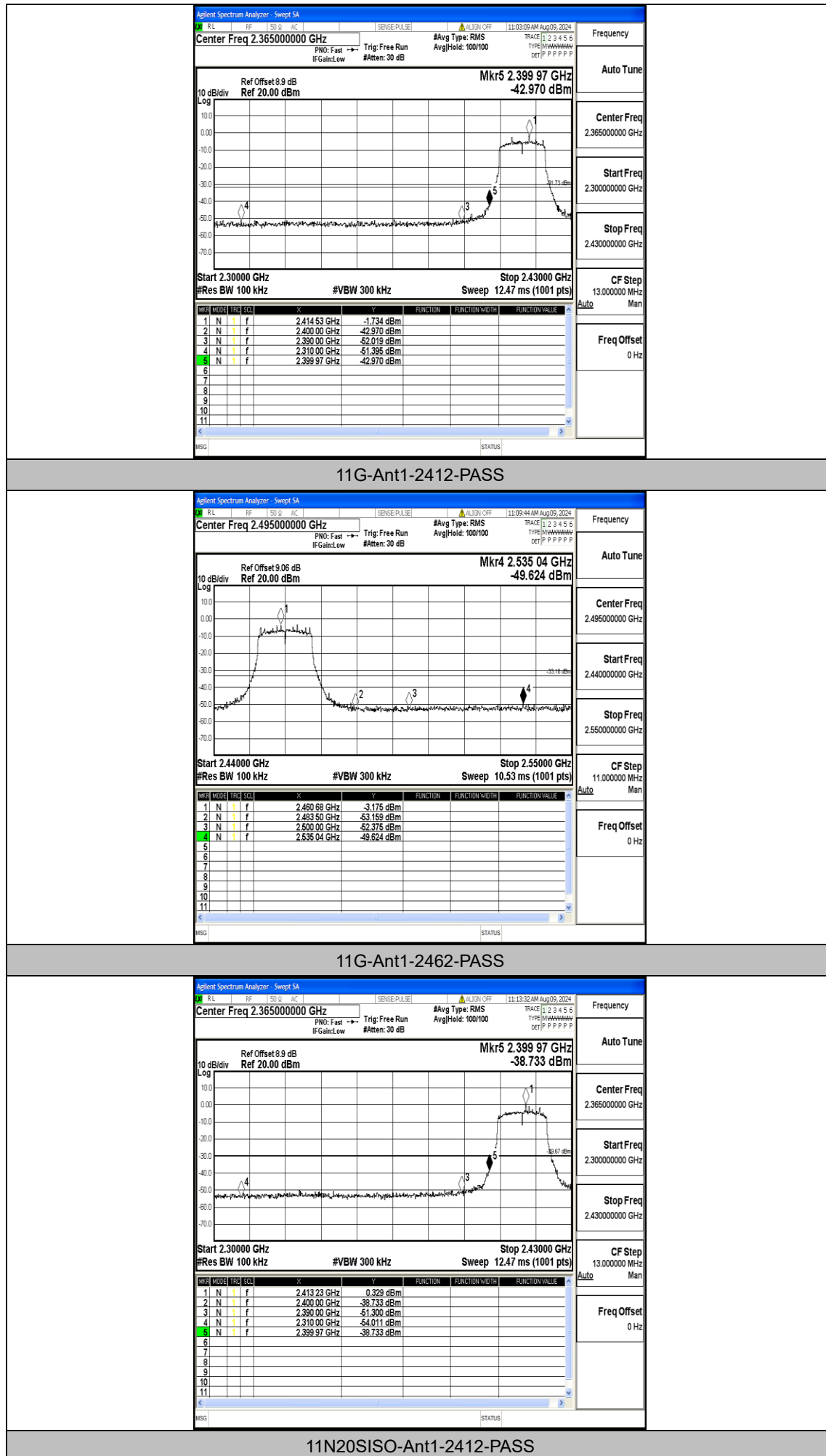
Appendix E: Band edge measurements

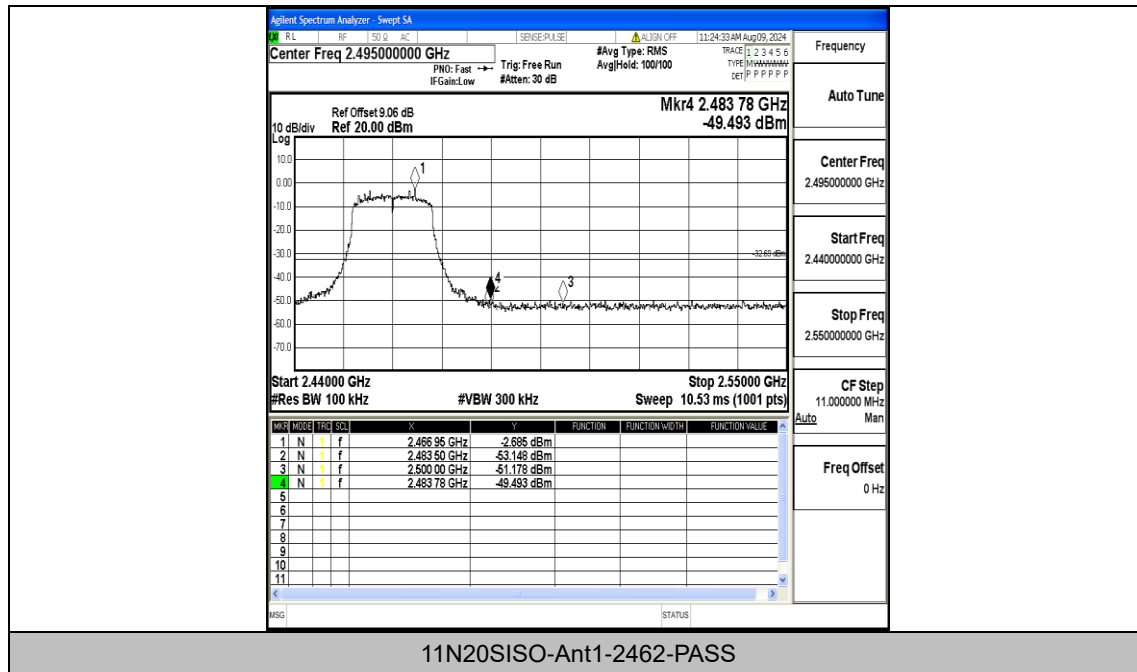
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-1.65	-49.61	≤-31.65	PASS
11B	Ant1	High	2462	-1.05	-49.94	≤-31.05	PASS
11G	Ant1	Low	2412	-1.73	-42.97	≤-31.73	PASS
11G	Ant1	High	2462	-3.18	-49.62	≤-33.18	PASS
11N20SISO	Ant1	Low	2412	0.33	-38.73	≤-29.67	PASS
11N20SISO	Ant1	High	2462	-2.69	-49.49	≤-32.69	PASS

Test Graphs





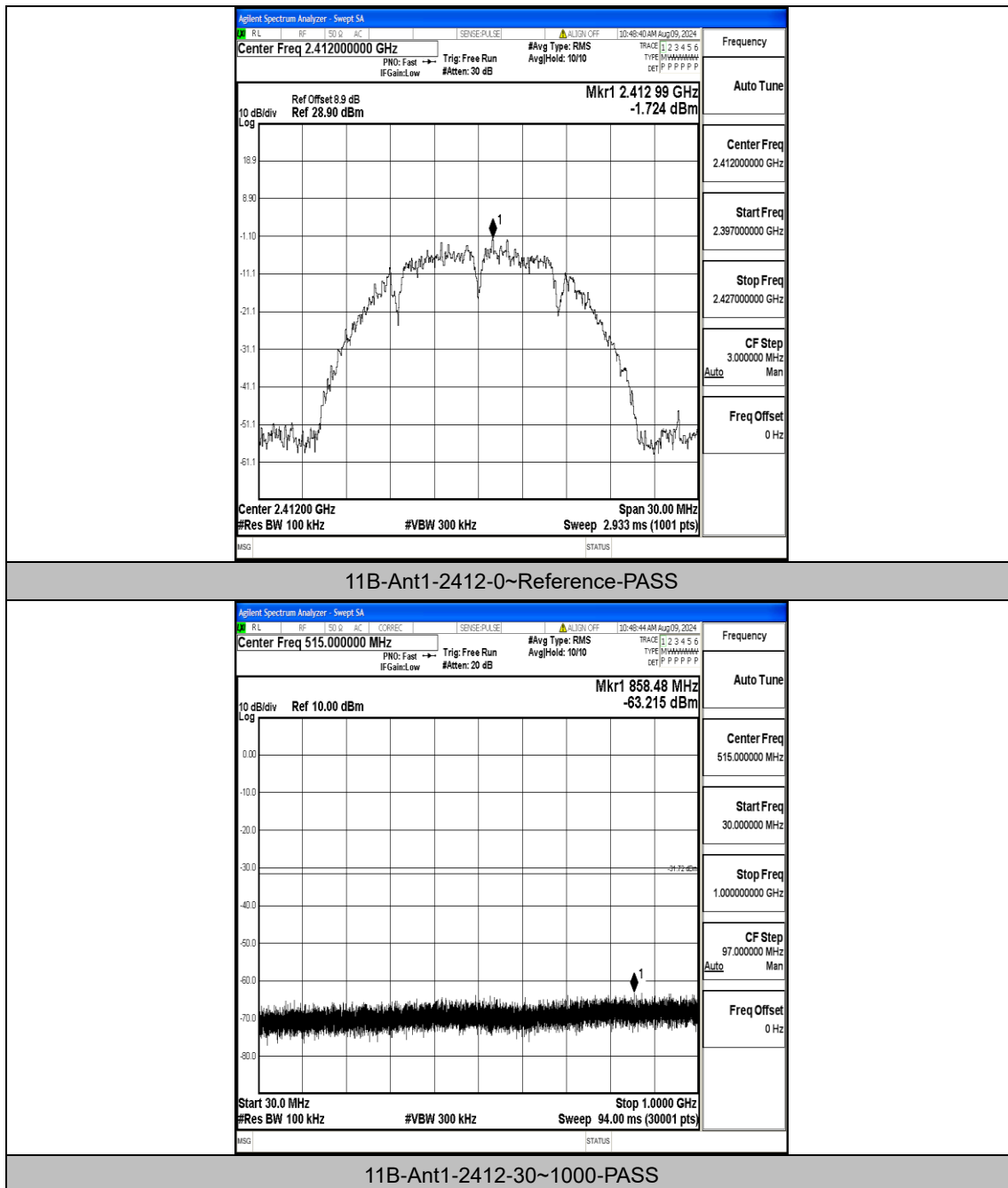


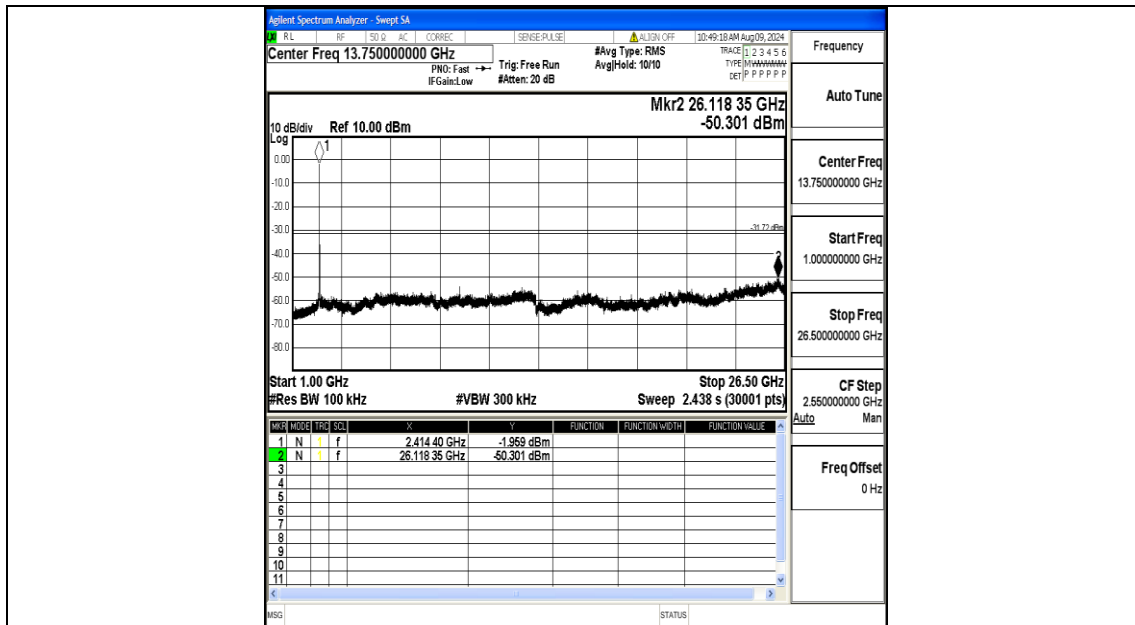
Appendix F: Conducted Spurious Emission

Test Result

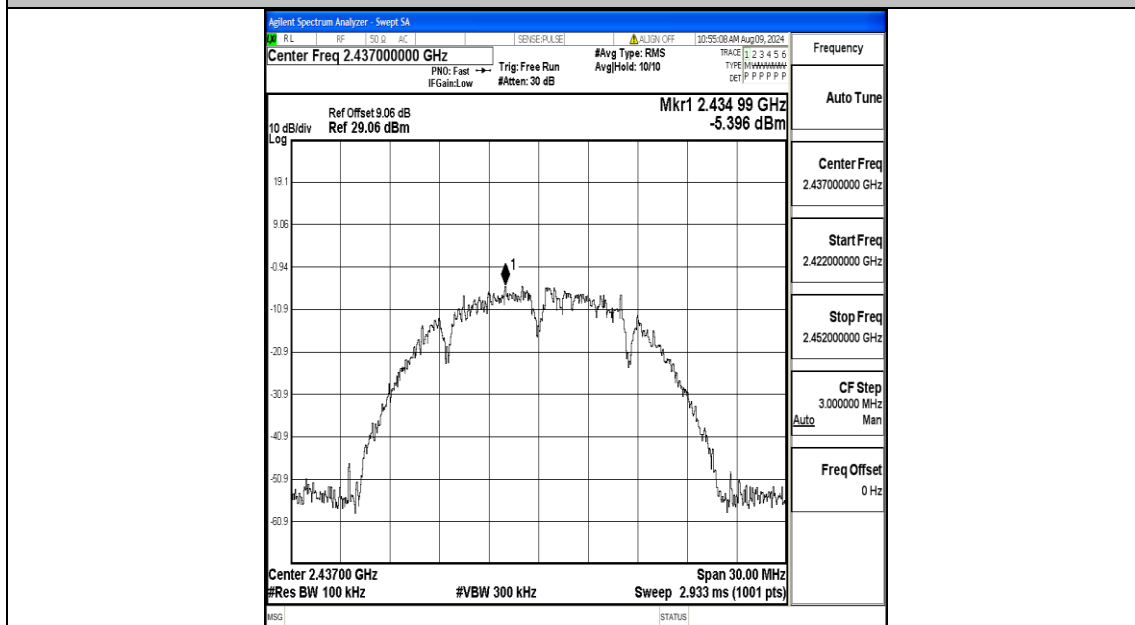
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	-1.72	-1.72	---	PASS
11B	Ant1	2412	30~1000	-1.72	-63.22	≤-31.72	PASS
11B	Ant1	2412	1000~26500	-1.72	-50.3	≤-31.72	PASS
11B	Ant1	2437	0~Reference	-5.40	-5.40	---	PASS
11B	Ant1	2437	30~1000	-5.40	-62.86	≤-35.4	PASS
11B	Ant1	2437	1000~26500	-5.40	-50.29	≤-35.4	PASS
11B	Ant1	2462	0~Reference	-2.39	-2.39	---	PASS
11B	Ant1	2462	30~1000	-2.39	-63.1	≤-32.39	PASS
11B	Ant1	2462	1000~26500	-2.39	-49.33	≤-32.39	PASS
11G	Ant1	2412	0~Reference	-5.32	-5.32	---	PASS
11G	Ant1	2412	30~1000	-5.32	-62.73	≤-35.32	PASS
11G	Ant1	2412	1000~26500	-5.32	-50.09	≤-35.32	PASS
11G	Ant1	2437	0~Reference	-6.75	-6.75	---	PASS
11G	Ant1	2437	30~1000	-6.75	-62.36	≤-36.75	PASS
11G	Ant1	2437	1000~26500	-6.75	-50.33	≤-36.75	PASS
11G	Ant1	2462	0~Reference	-3.59	-3.59	---	PASS
11G	Ant1	2462	30~1000	-3.59	-62.68	≤-33.59	PASS
11G	Ant1	2462	1000~26500	-3.59	-50.77	≤-33.59	PASS
11N20SISO	Ant1	2412	0~Reference	-2.11	-2.11	---	PASS
11N20SISO	Ant1	2412	30~1000	-2.11	-63.02	≤-32.11	PASS
11N20SISO	Ant1	2412	1000~26500	-2.11	-50.69	≤-32.11	PASS
11N20SISO	Ant1	2437	0~Reference	-3.22	-3.22	---	PASS
11N20SISO	Ant1	2437	30~1000	-3.22	-61.48	≤-33.22	PASS
11N20SISO	Ant1	2437	1000~26500	-3.22	-50.34	≤-33.22	PASS
11N20SISO	Ant1	2462	0~Reference	-3.93	-3.93	---	PASS
11N20SISO	Ant1	2462	30~1000	-3.93	-62.61	≤-33.93	PASS
11N20SISO	Ant1	2462	1000~26500	-3.93	-50.23	≤-33.93	PASS

Test Graphs

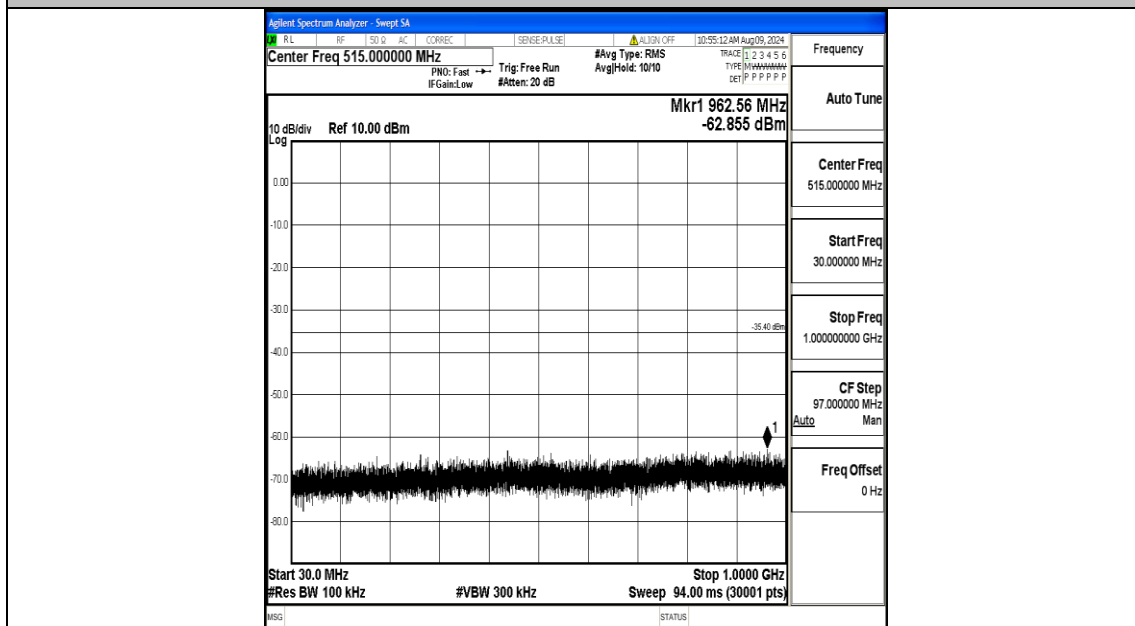




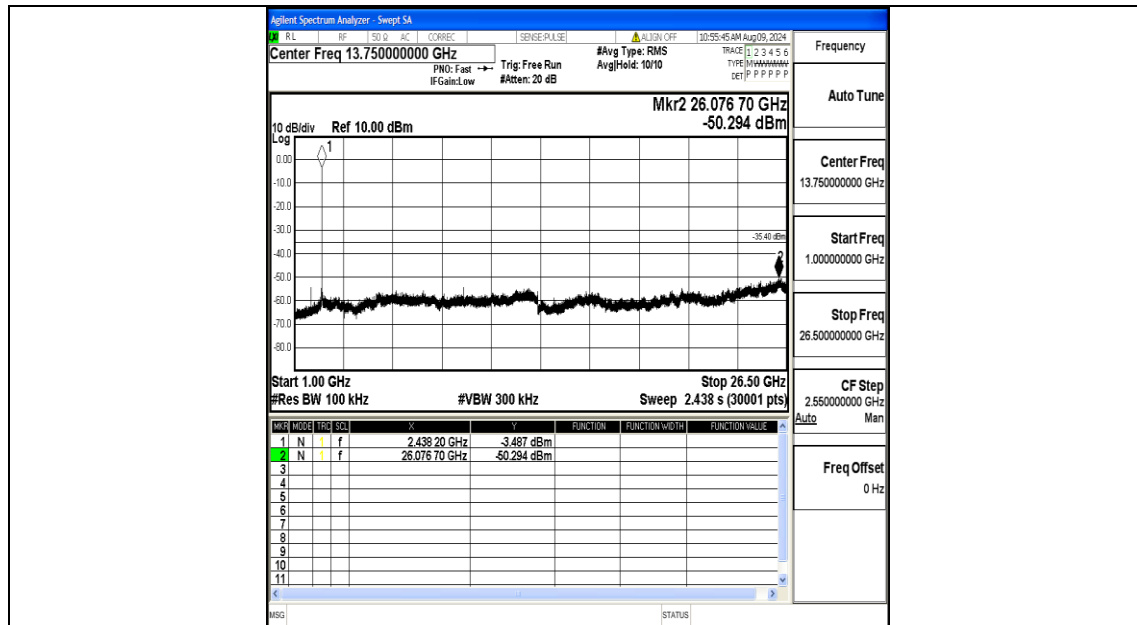
11B-Ant1-2412-1000~26500-PASS



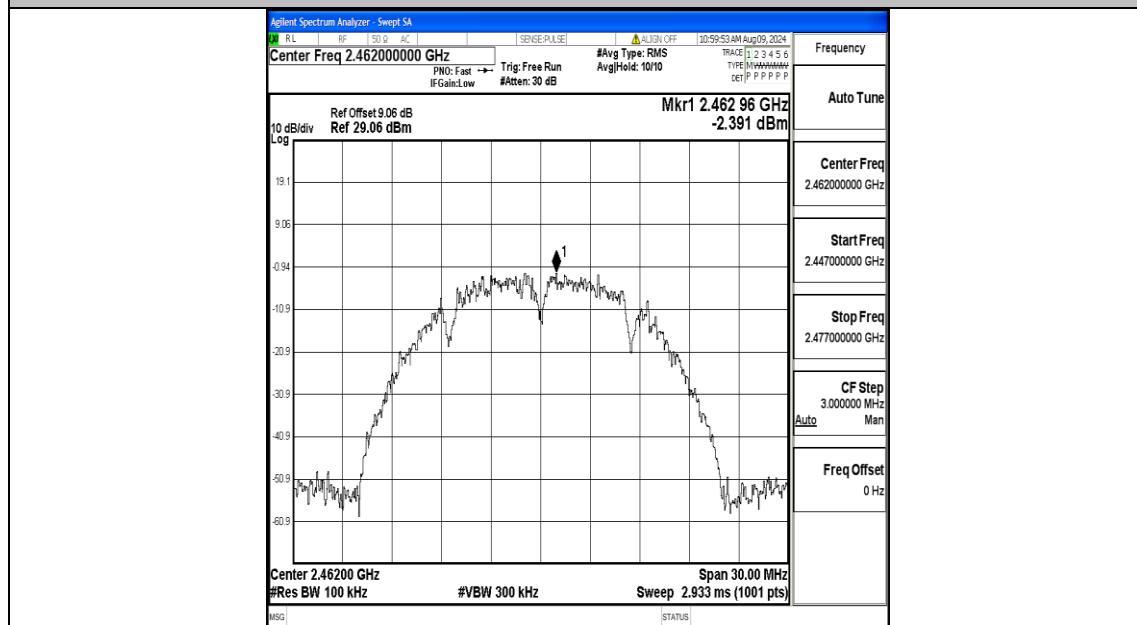
11B-Ant1-2437-0~Reference-PASS



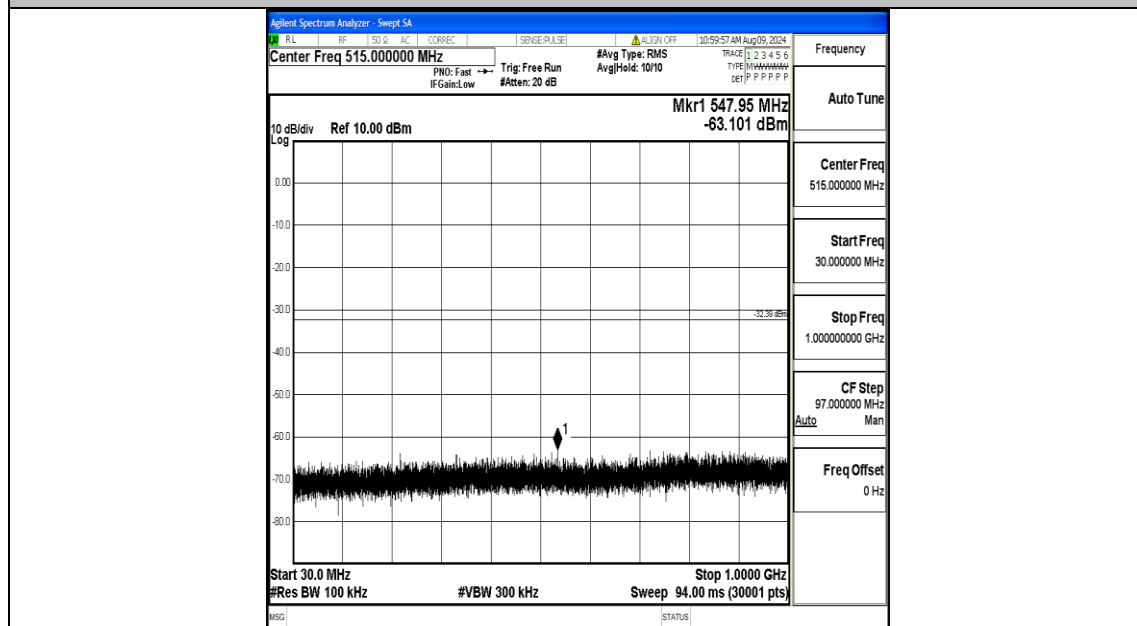
11B-Ant1-2437-30~1000-PASS



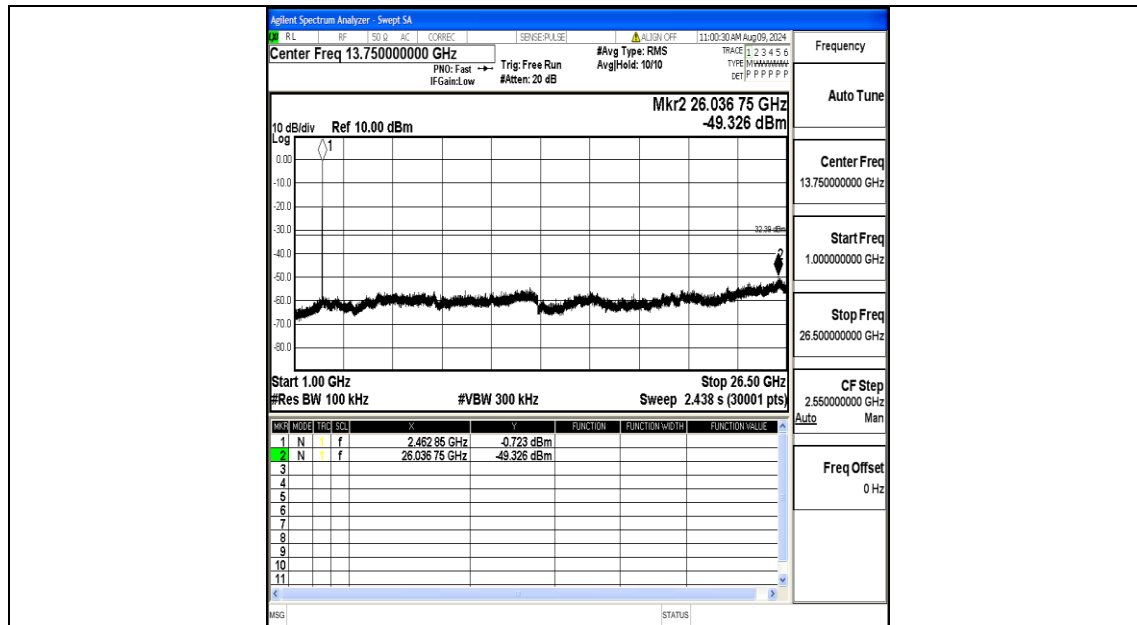
11B-Ant1-2437-1000~26500-PASS



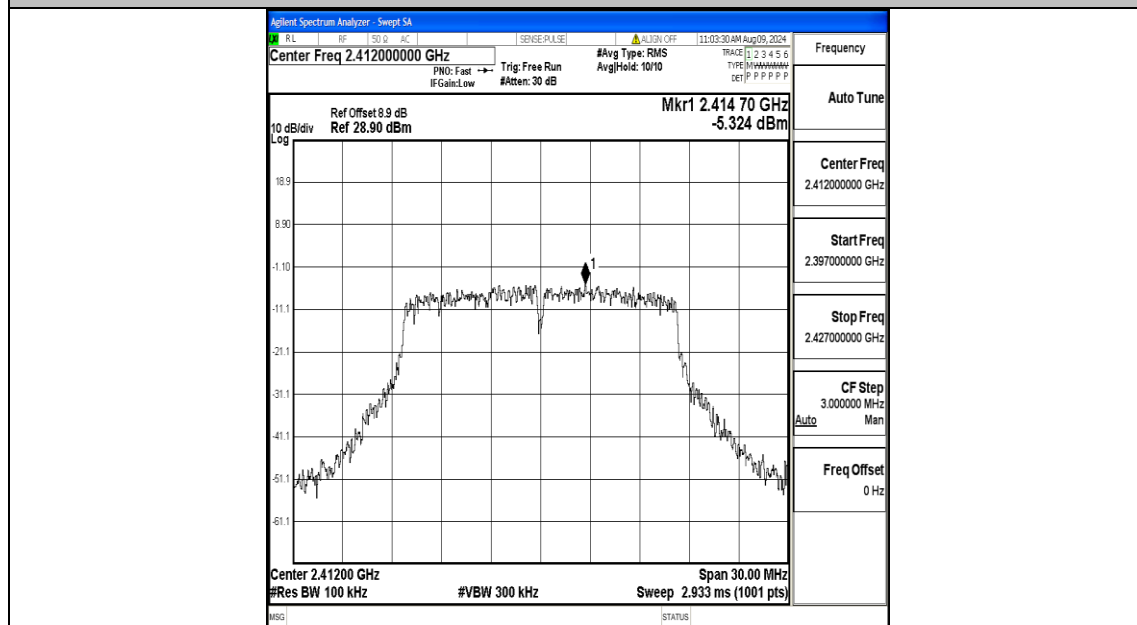
11B-Ant1-2462-0~Reference-PASS



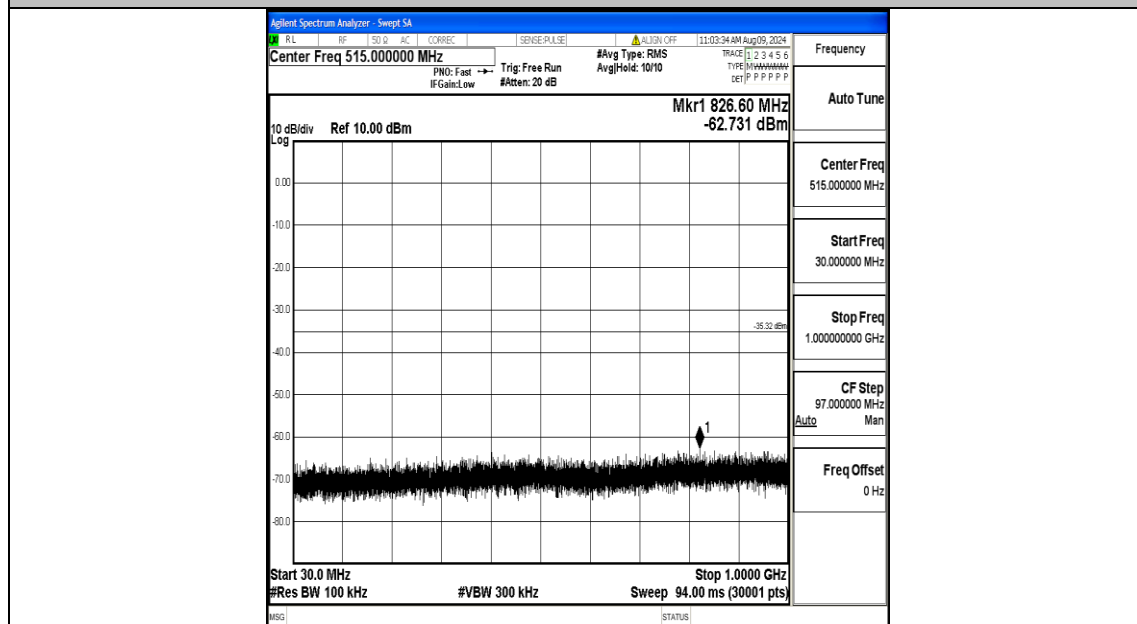
11B-Ant1-2462-30~1000-PASS



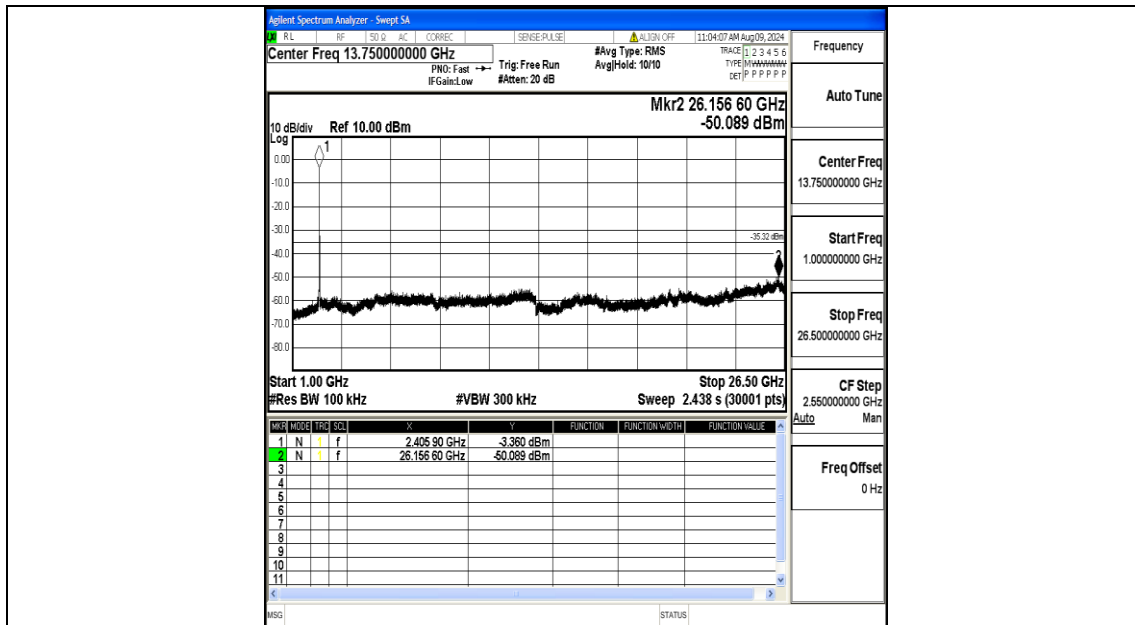
11B-Ant1-2462-1000~26500-PASS



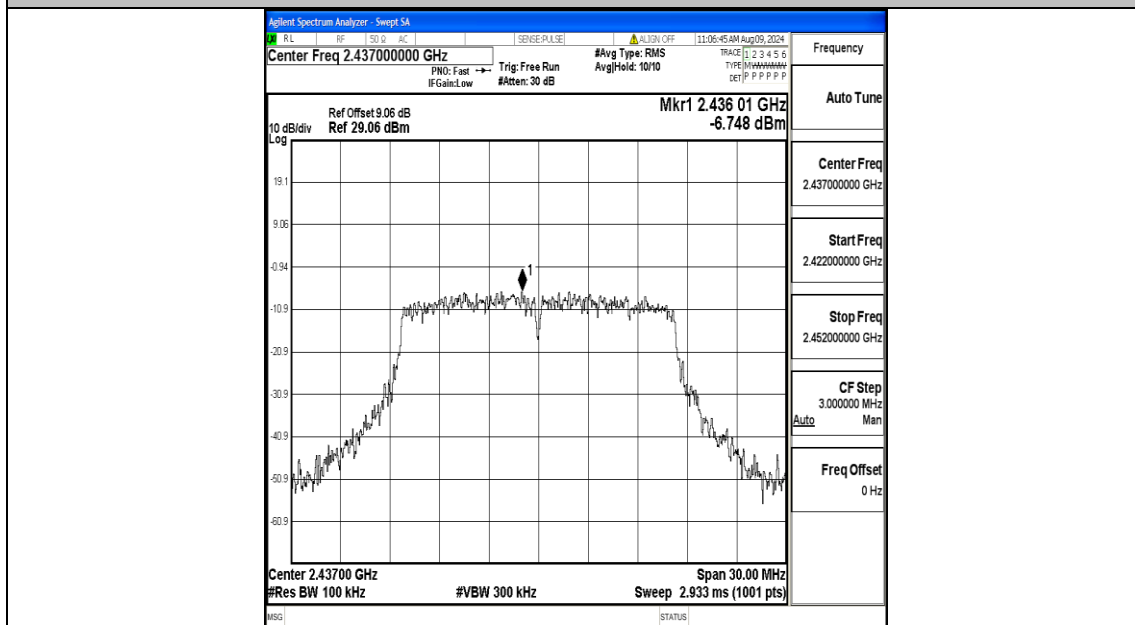
11G-Ant1-2412-0~Reference-PASS



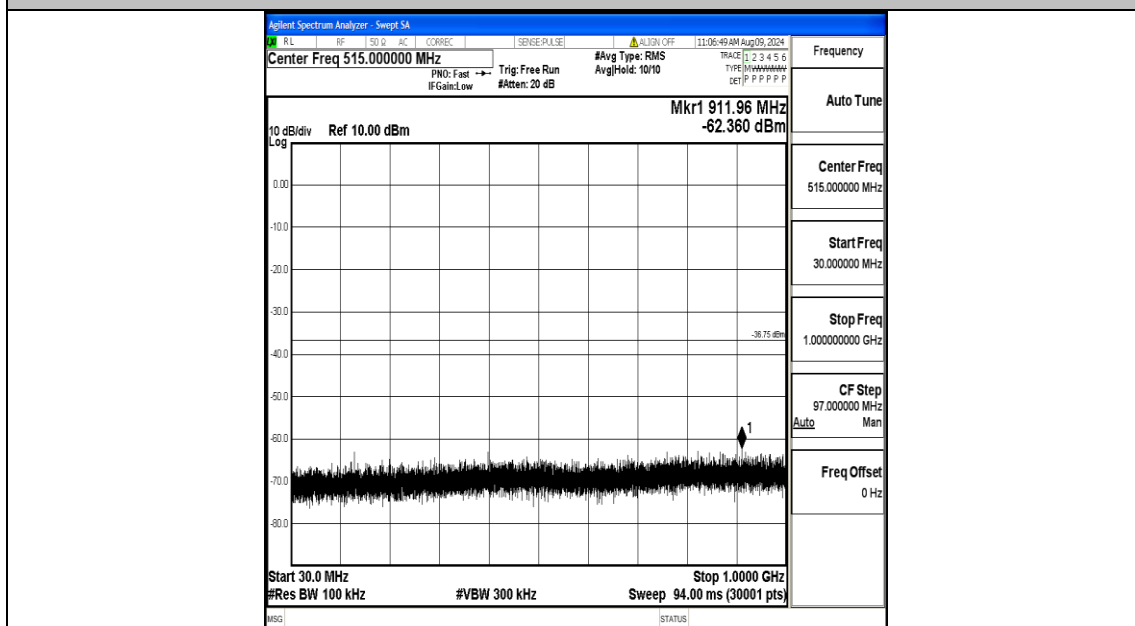
11G-Ant1-2412-30~1000-PASS



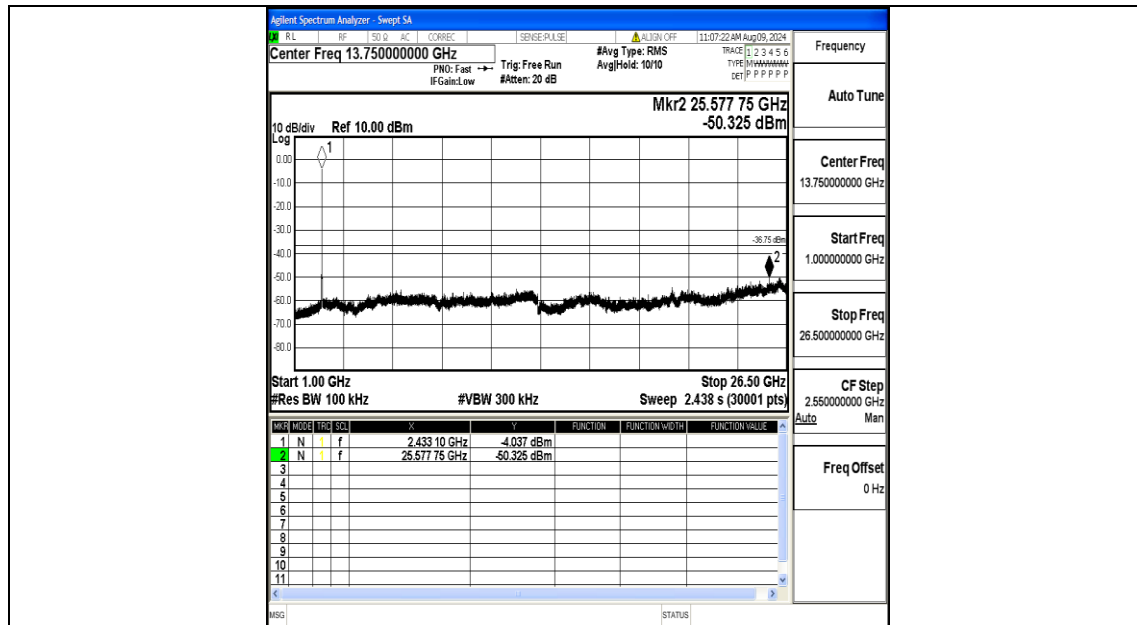
11G-Ant1-2412-1000~26500-PASS



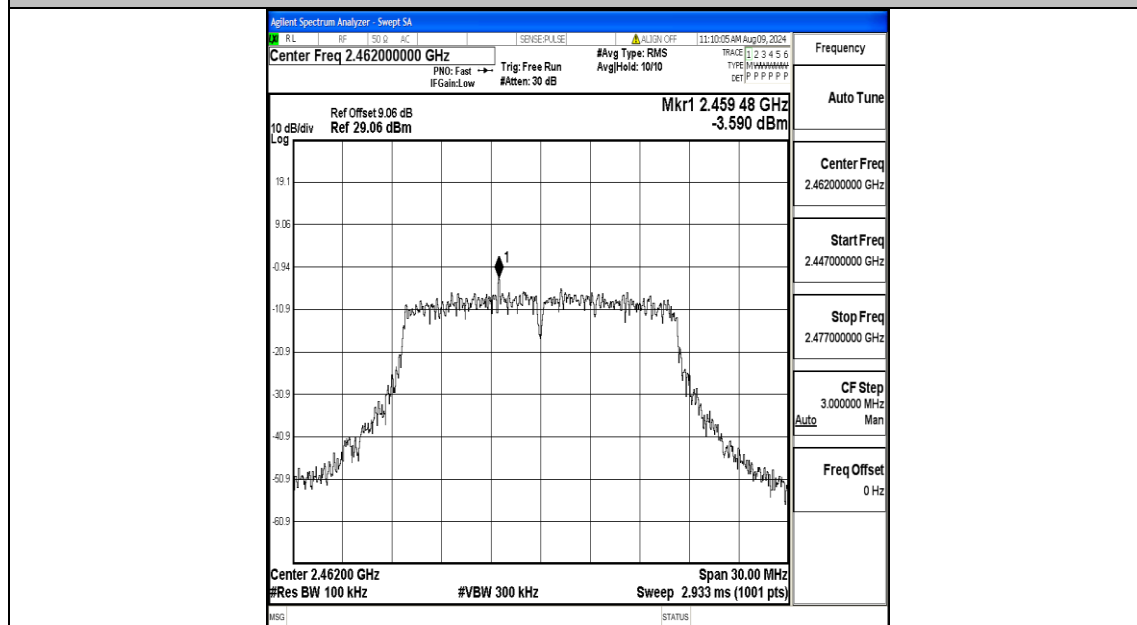
11G-Ant1-2437-0~Reference-PASS



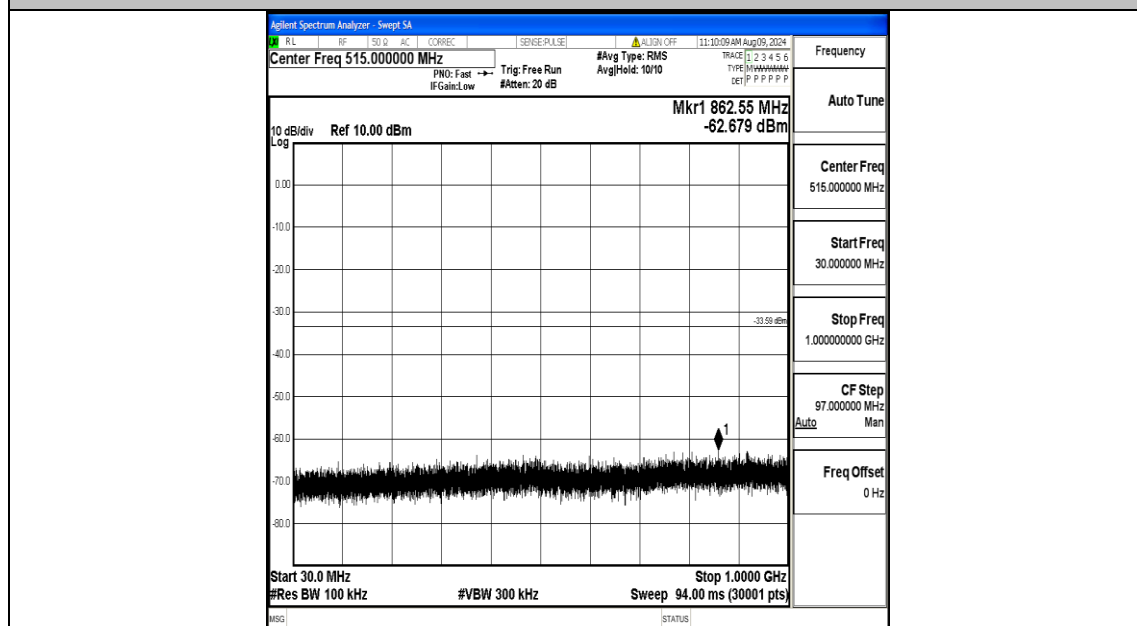
11G-Ant1-2437-30~1000-PASS



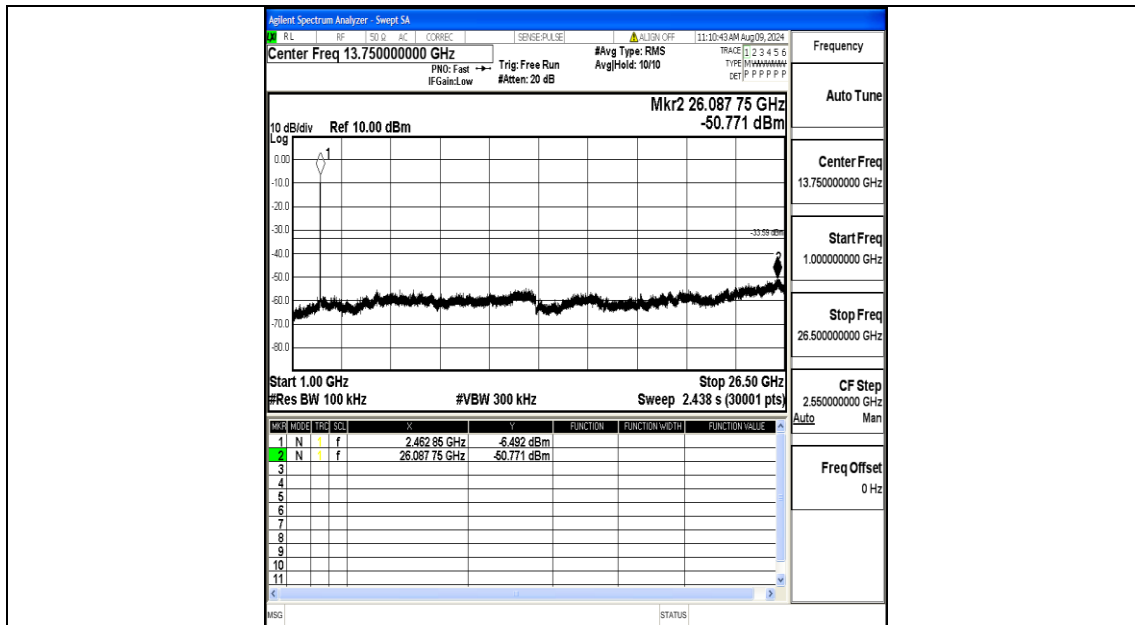
11G-Ant1-2437-1000~26500-PASS



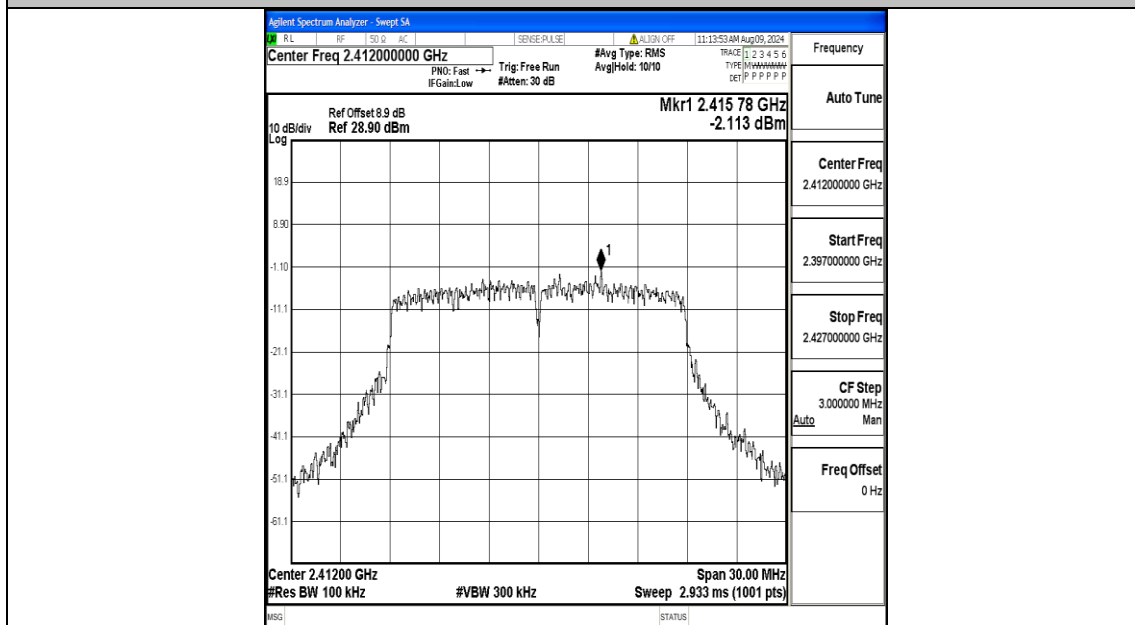
11G-Ant1-2462-0~Reference-PASS



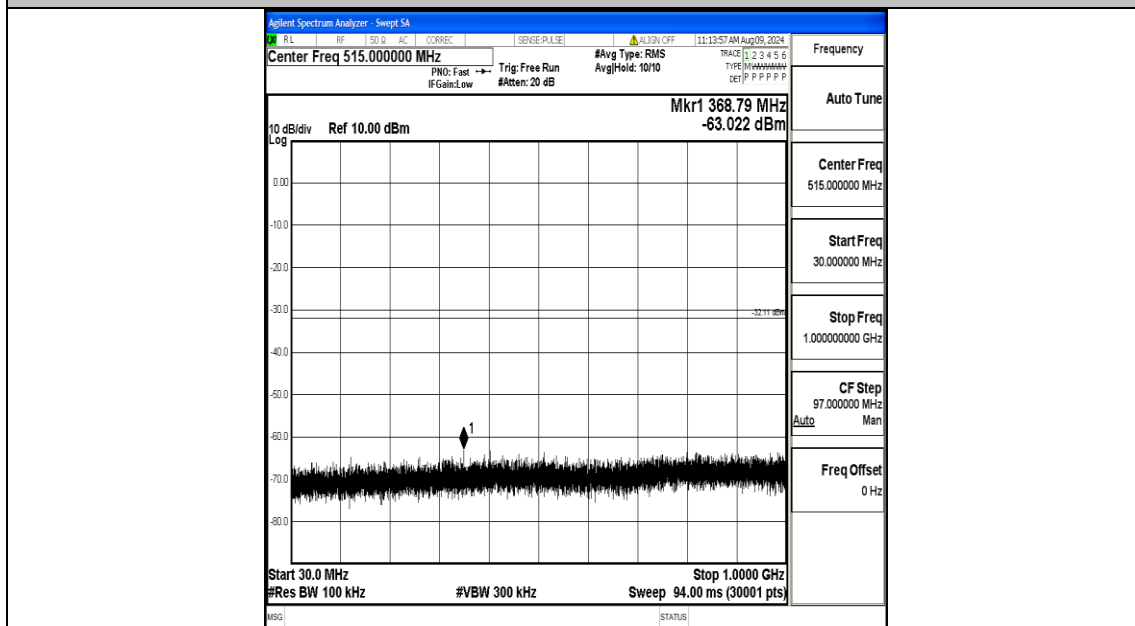
11G-Ant1-2462-30~1000-PASS



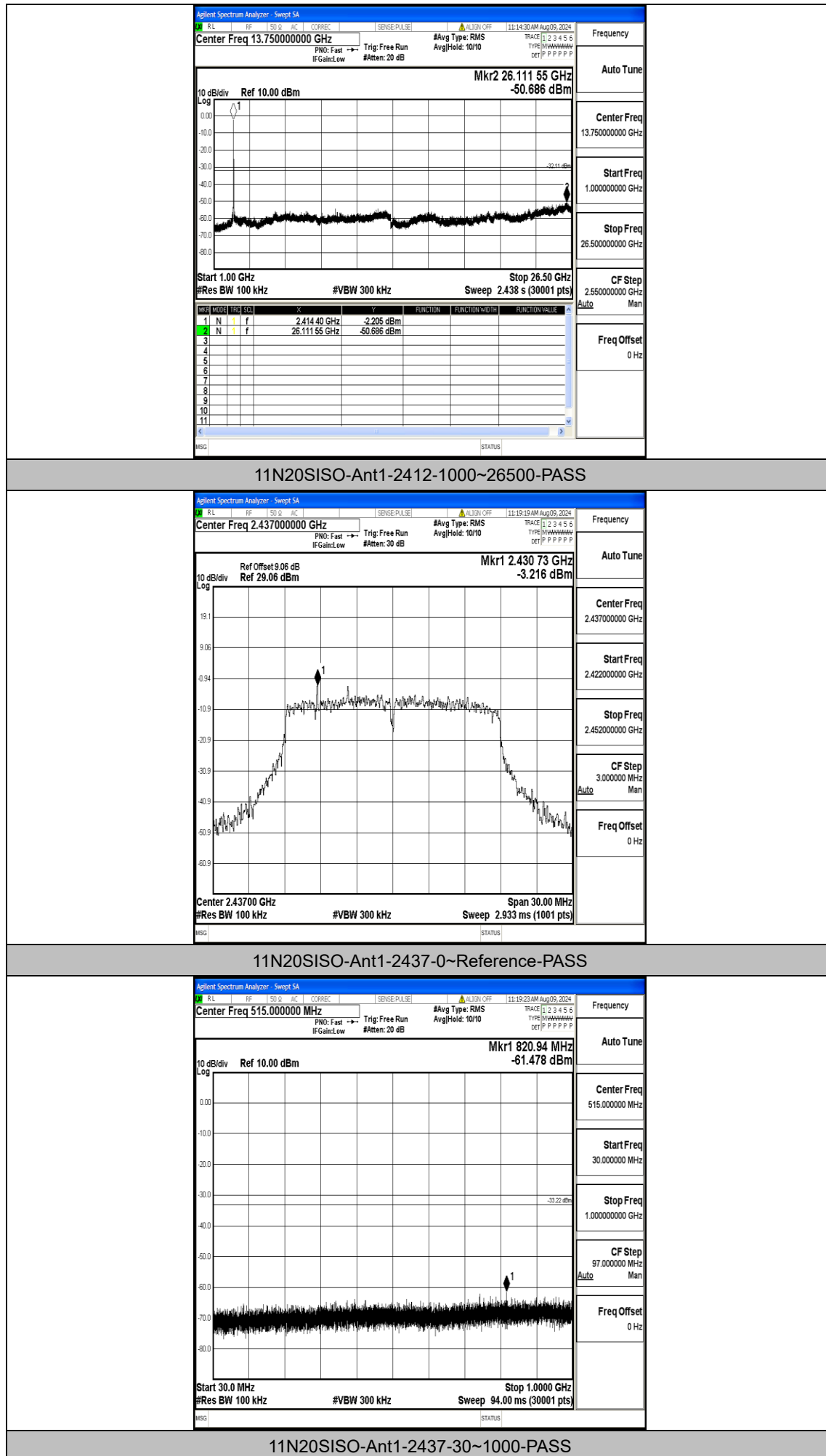
11G-Ant1-2462-1000~26500-PASS

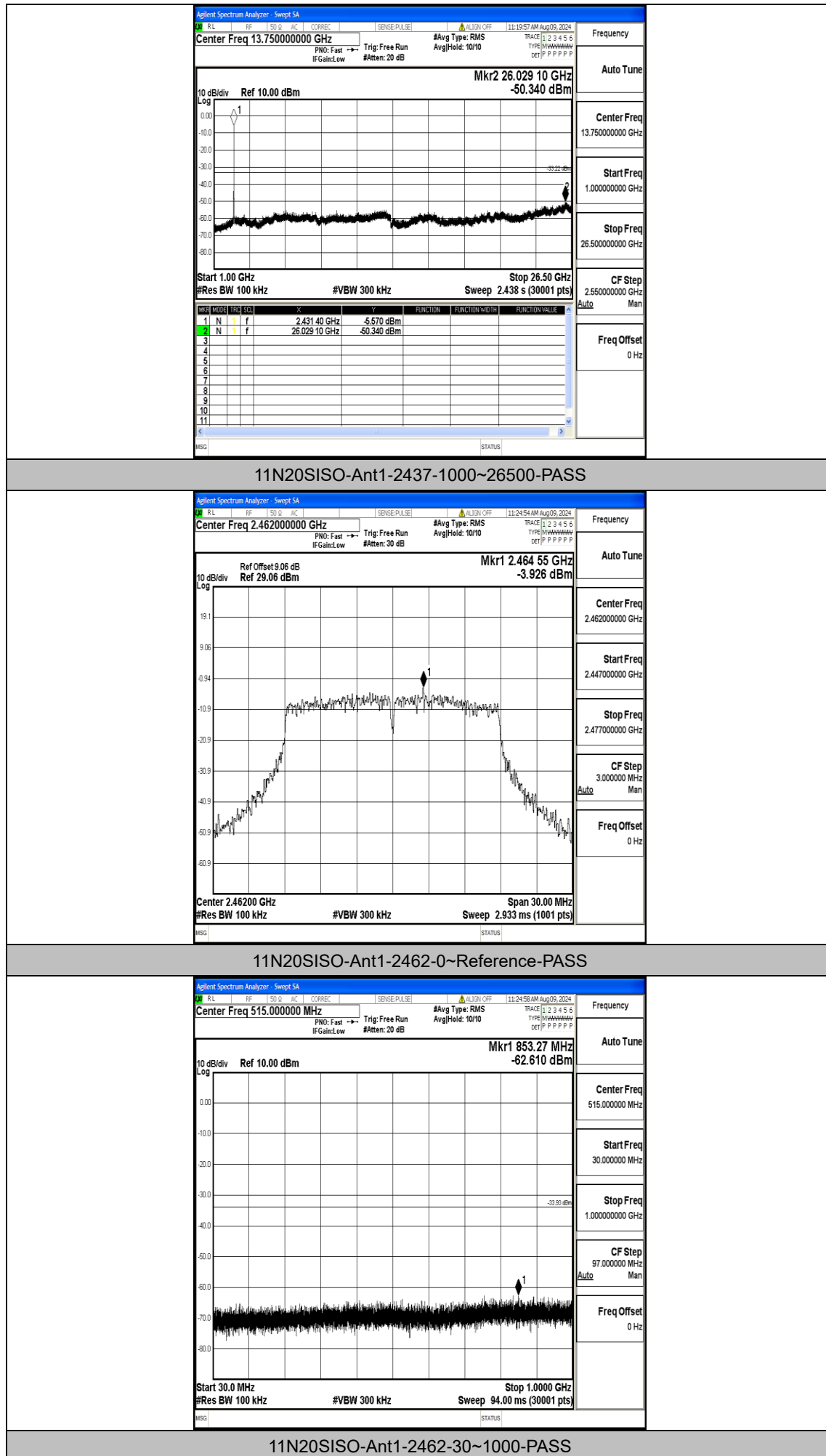


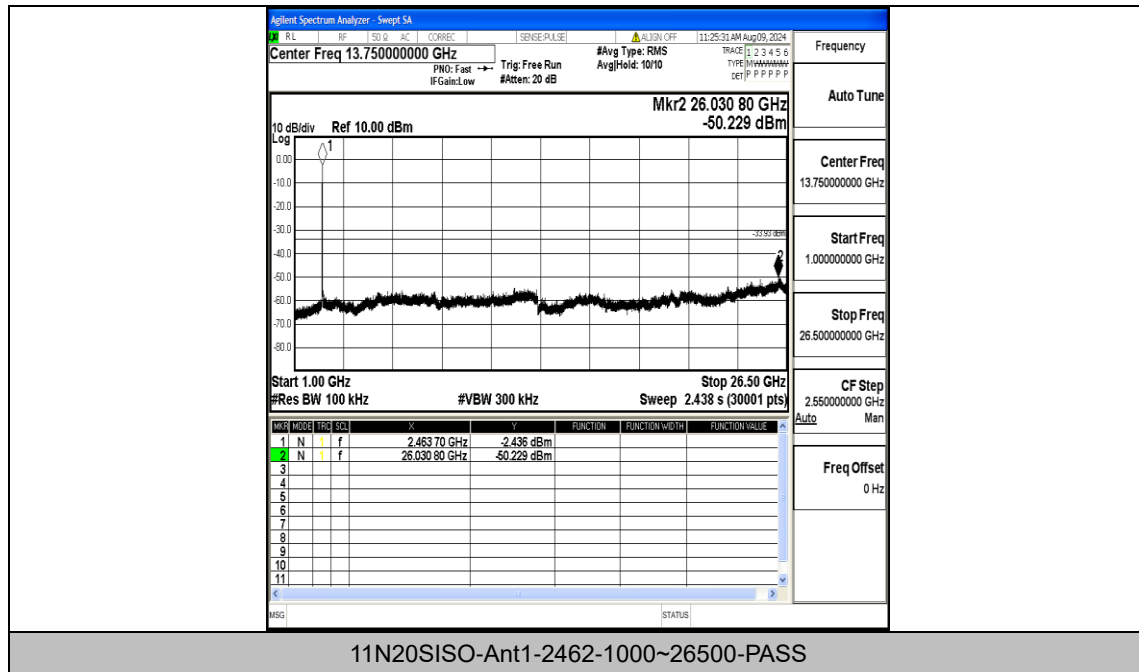
11N20SISO-Ant1-2412-0~Reference-PASS



11N20SISO-Ant1-2412-30~1000-PASS







Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.42	12.85	96.65	0.15
11B	Ant1	2437	12.42	12.82	96.88	0.14
11B	Ant1	2462	12.41	12.79	97.03	0.13
11G	Ant1	2412	2.07	2.21	93.67	0.28
11G	Ant1	2437	2.07	2.27	91.19	0.40
11G	Ant1	2462	2.06	2.22	92.79	0.32
11N20SISO	Ant1	2412	1.92	2.13	90.14	0.45
11N20SISO	Ant1	2437	1.92	2.11	91.00	0.41
11N20SISO	Ant1	2462	1.93	2.12	91.04	0.41

Test Graphs

