

Appendix Test Data for WLAN(2.4G) (Conducted Measurement)

Product Name: Motorcycle DVR Dash Camera

Trade Mark: HFK

Test Model: HM201

FCC ID: 2BFHY-HM201

Environmental Conditions

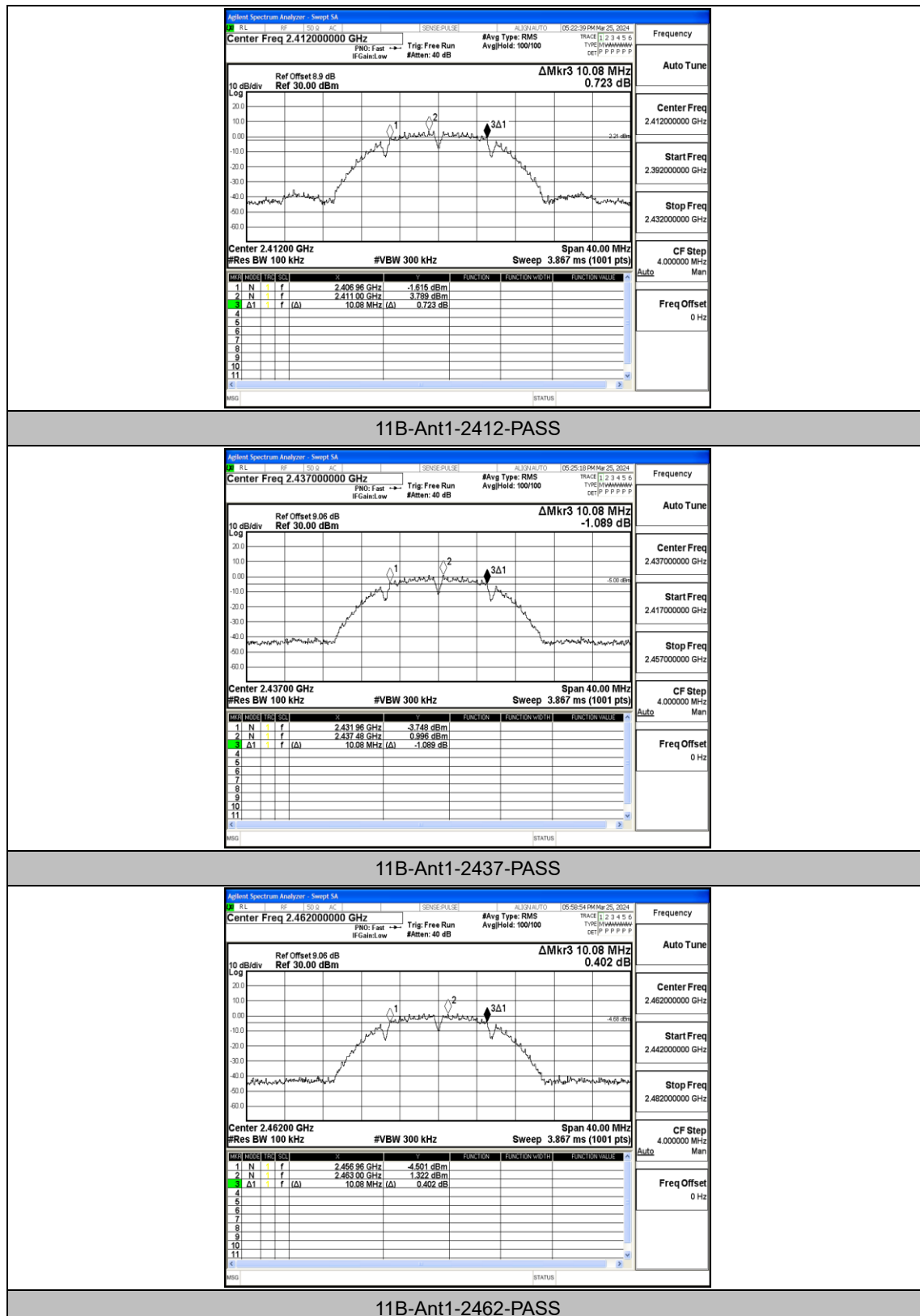
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

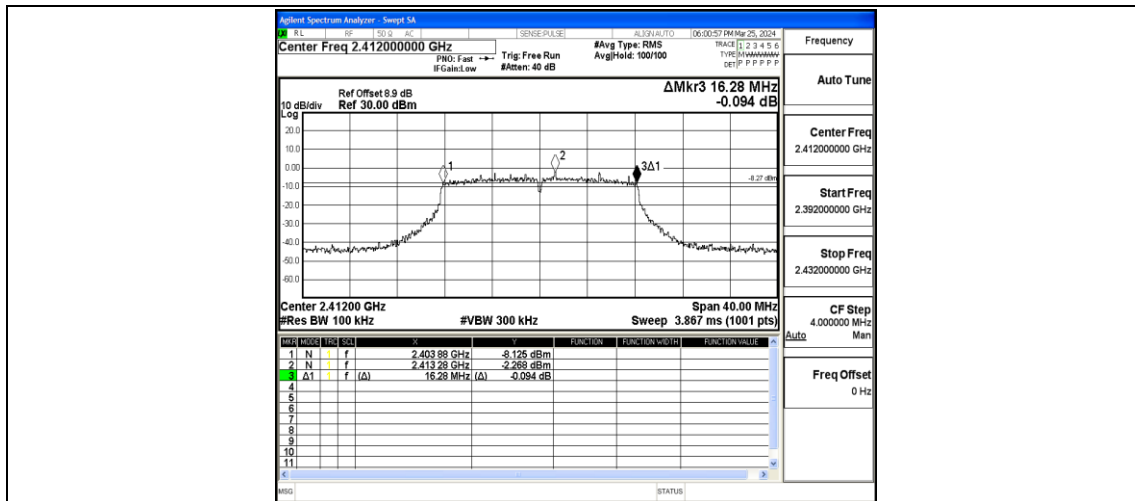
Appendix A: DTS Bandwidth

Test Result

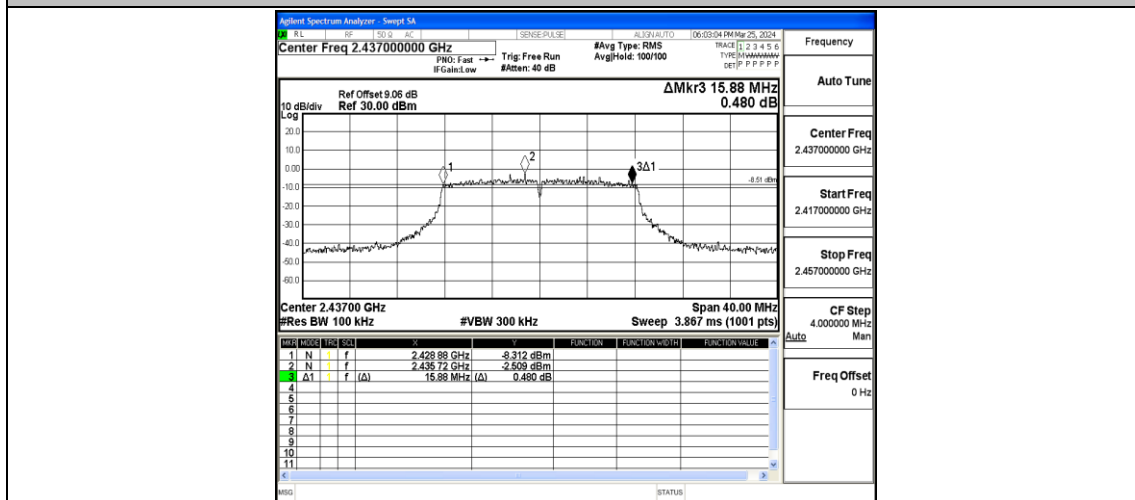
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.080	2406.960	2417.040	0.5	PASS
11B	Ant1	2437	10.080	2431.960	2442.040	0.5	PASS
11B	Ant1	2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant1	2412	16.280	2403.880	2420.160	0.5	PASS
11G	Ant1	2437	15.880	2428.880	2444.760	0.5	PASS
11G	Ant1	2462	14.800	2454.720	2469.520	0.5	PASS
11N20SISO	Ant1	2412	16.360	2404.080	2420.440	0.5	PASS
11N20SISO	Ant1	2437	17.040	2428.480	2445.520	0.5	PASS
11N20SISO	Ant1	2462	16.000	2454.120	2470.120	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	32.960	2436.640	2469.600	0.5	PASS

Test Graphs

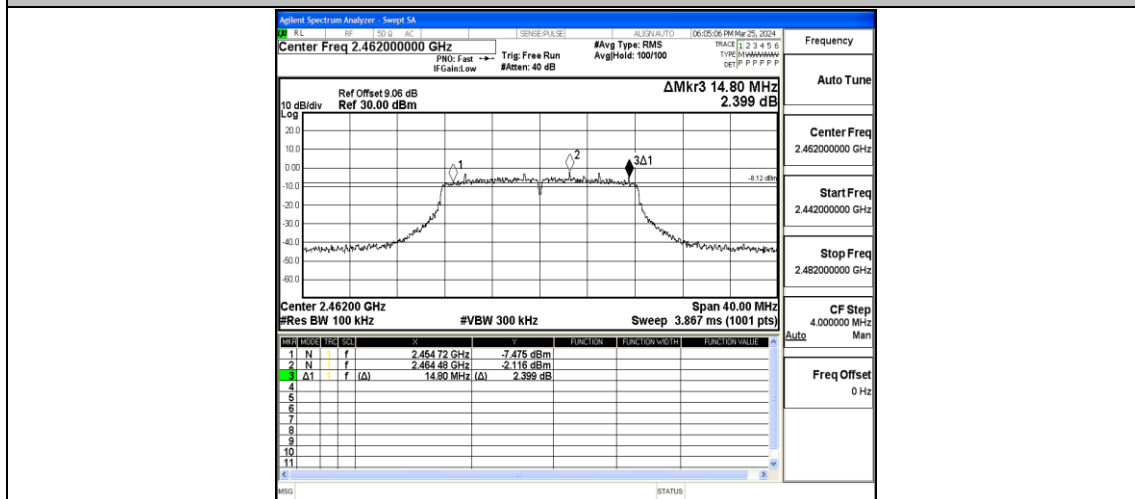




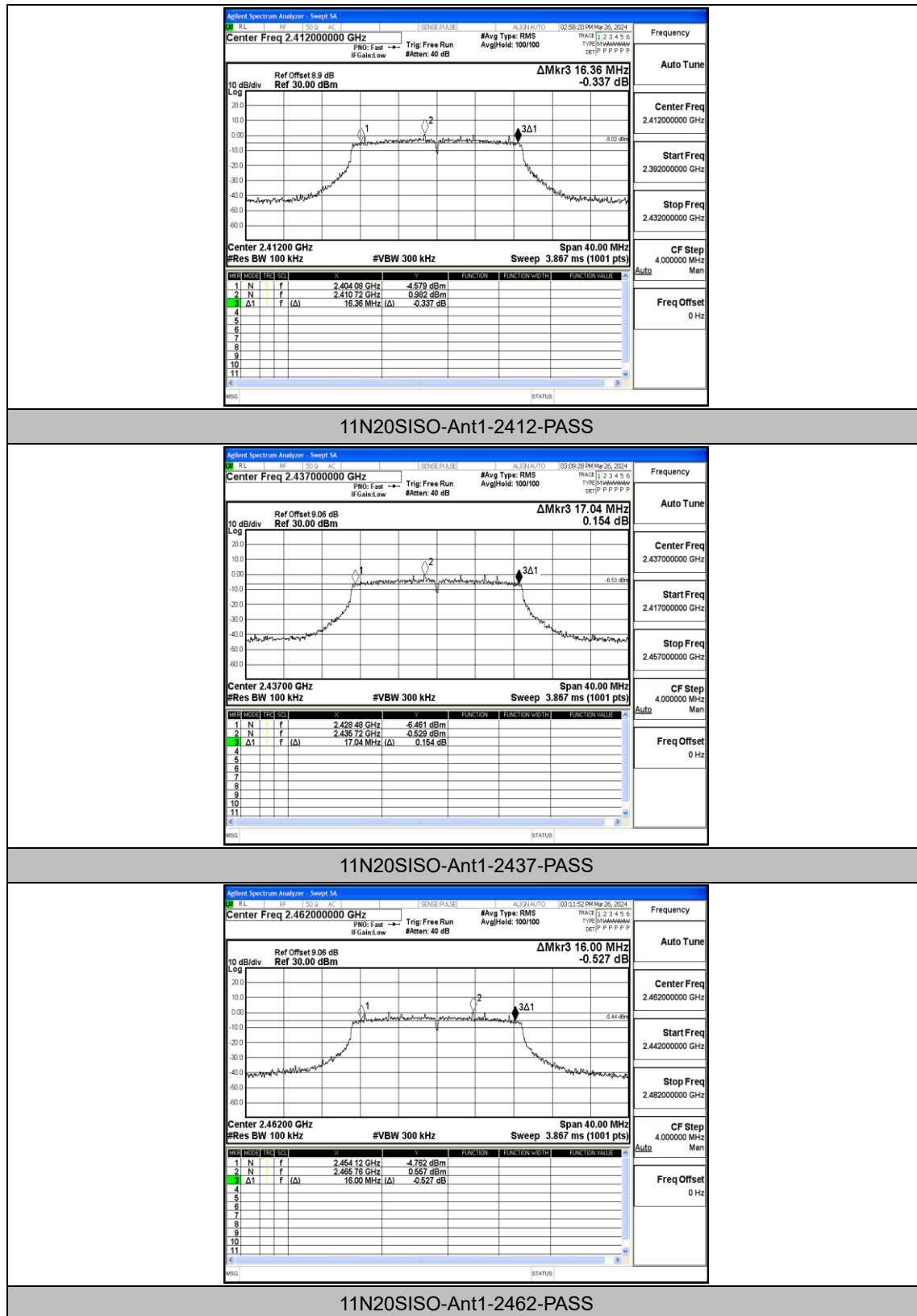
11G-Ant1-2412-PASS

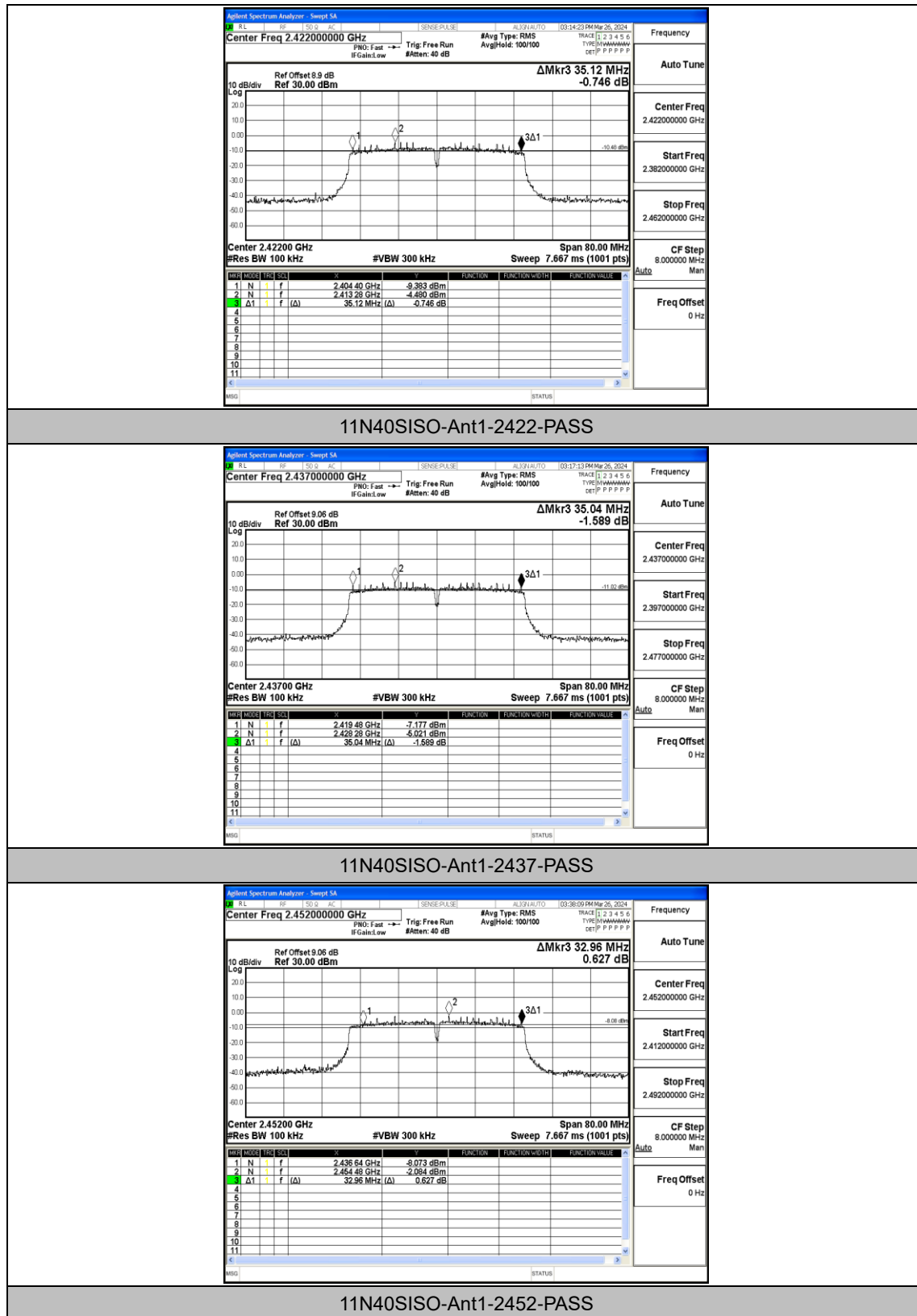


11G-Ant1-2437-PASS



11G-Ant1-2462-PASS



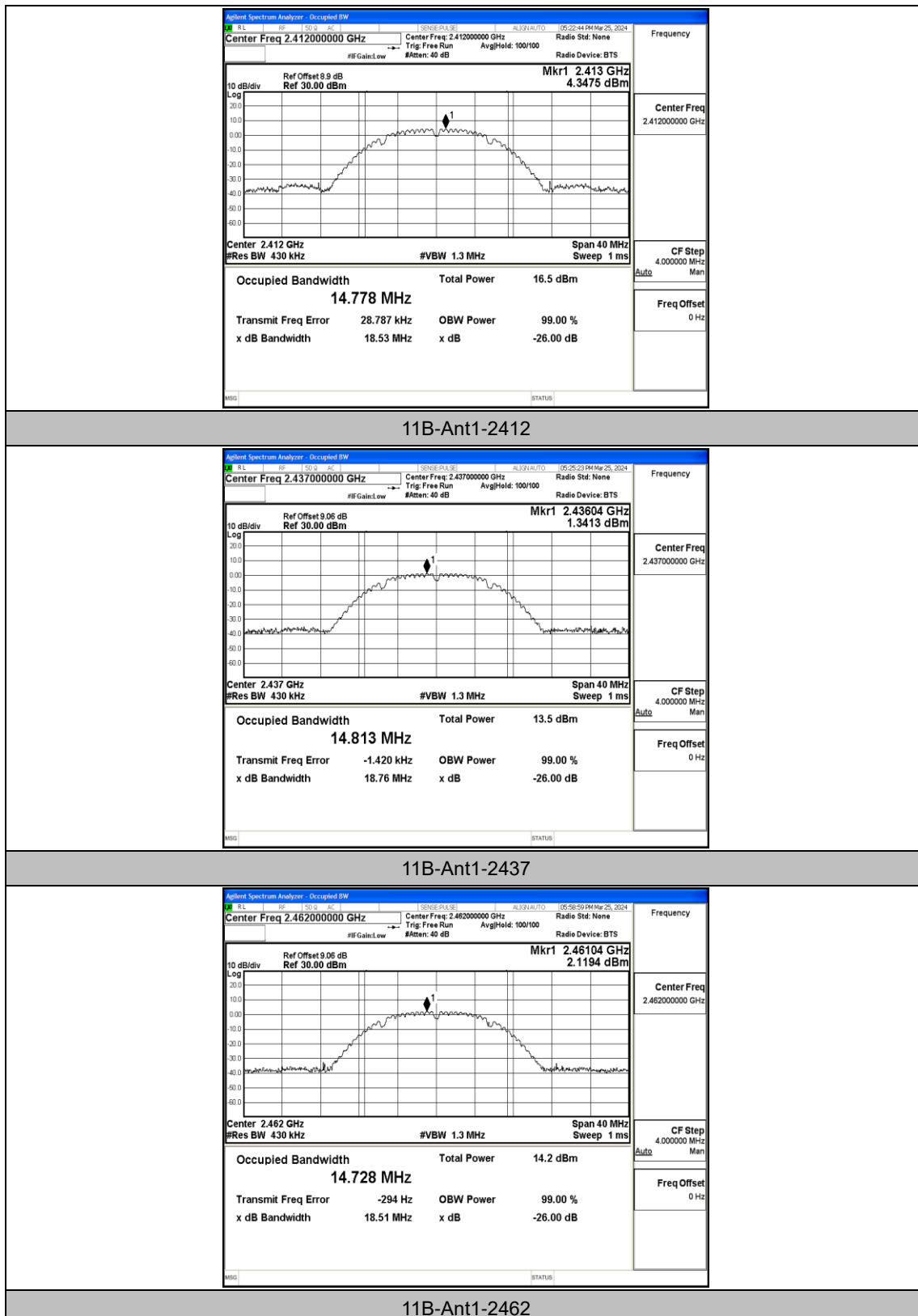


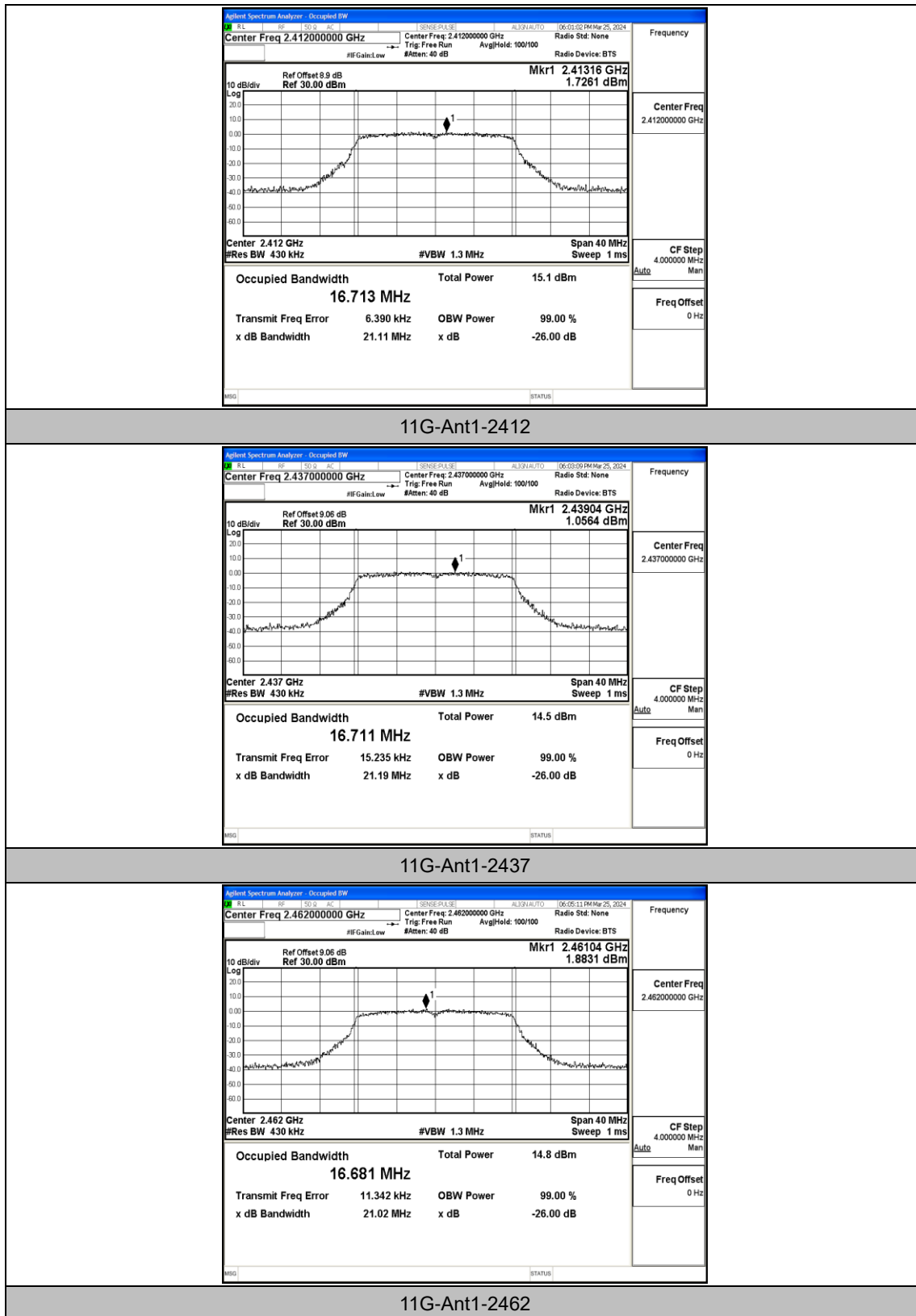
Appendix B: Occupied Channel Bandwidth

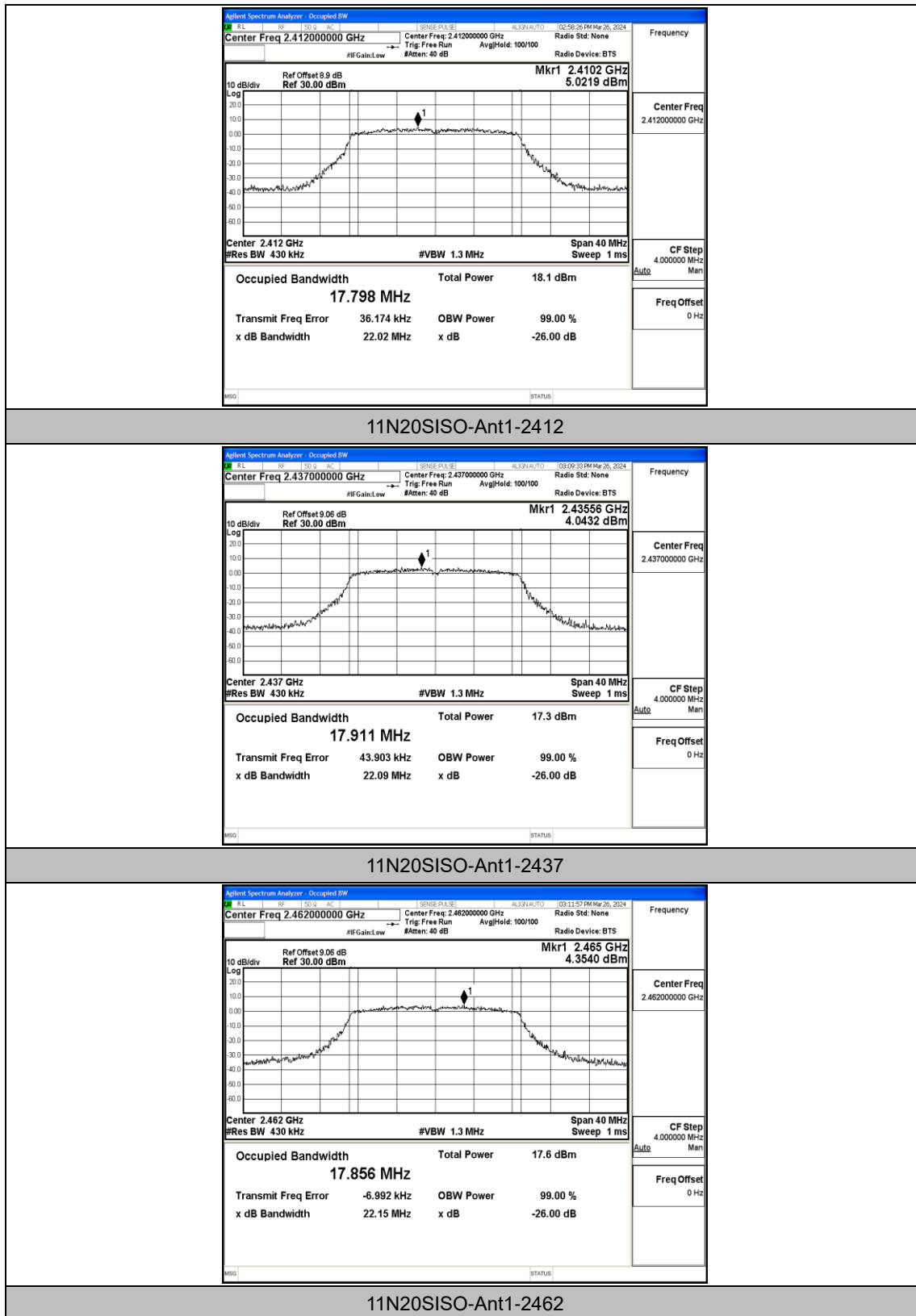
Test Result

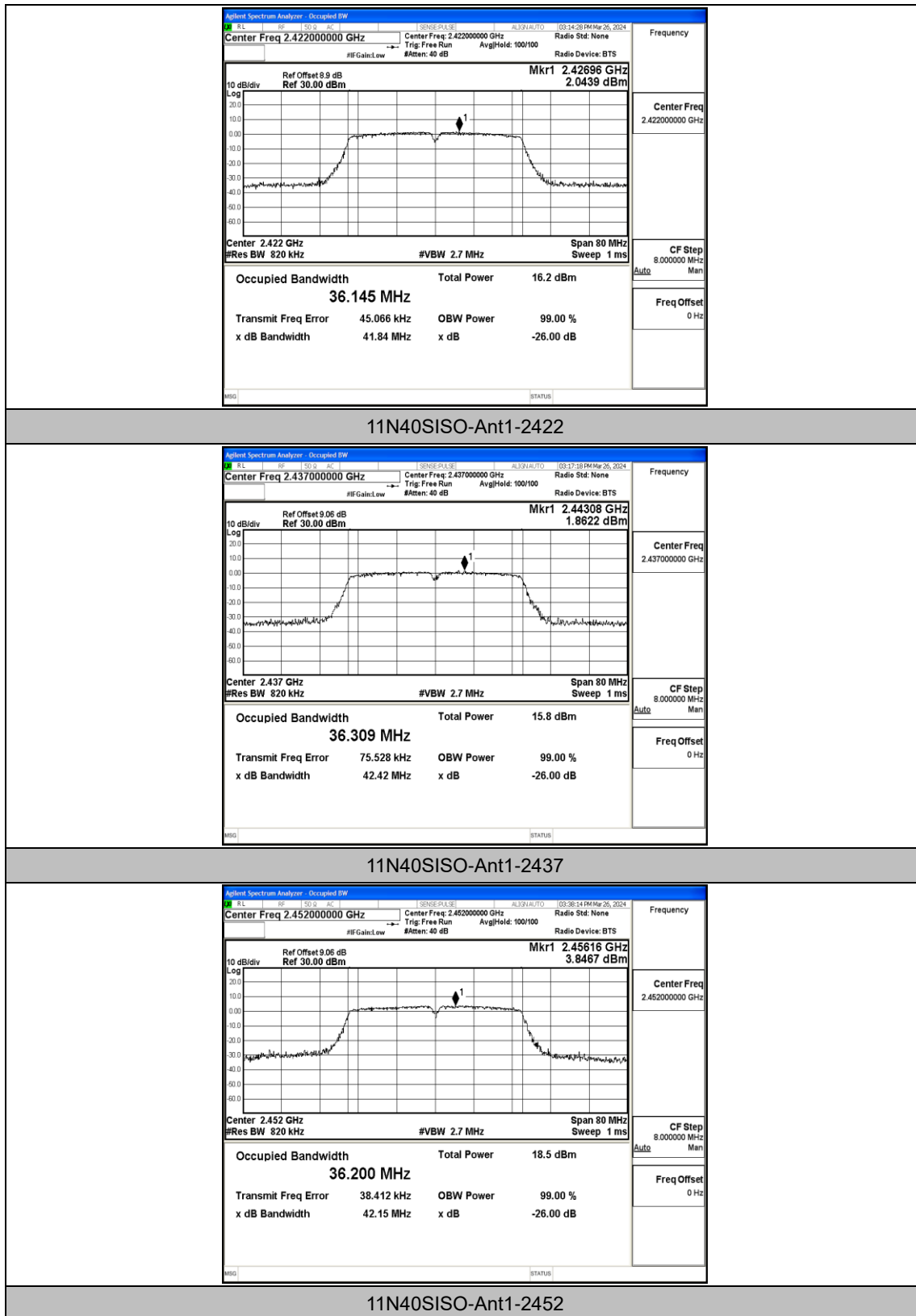
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.778	2404.6398	2419.4178	---	---
11B	Ant1	2437	14.813	2429.5921	2444.4051	---	---
11B	Ant1	2462	14.728	2454.6357	2469.3637	---	---
11G	Ant1	2412	16.713	2403.6499	2420.3629	---	---
11G	Ant1	2437	16.711	2428.6597	2445.3707	---	---
11G	Ant1	2462	16.681	2453.6708	2470.3518	---	---
11N20SISO	Ant1	2412	17.798	2403.1372	2420.9352	---	---
11N20SISO	Ant1	2437	17.911	2428.0884	2445.9994	---	---
11N20SISO	Ant1	2462	17.856	2453.0650	2470.9210	---	---
11N40SISO	Ant1	2422	36.145	2403.9726	2440.1176	---	---
11N40SISO	Ant1	2437	36.309	2418.9210	2455.2300	---	---
11N40SISO	Ant1	2452	36.200	2433.9384	2470.1384	---	---

Test Graphs









Appendix C: Maximum Peak conducted output power

Test Result

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	16.04	≤30.00	PASS
11B	Ant1	2437	13.04	≤30.00	PASS
11B	Ant1	2462	13.78	≤30.00	PASS
11G	Ant1	2412	16.28	≤30.00	PASS
11G	Ant1	2437	15.59	≤30.00	PASS
11G	Ant1	2462	15.63	≤30.00	PASS
11N20SISO	Ant1	2412	18.63	≤30.00	PASS
11N20SISO	Ant1	2437	18.33	≤30.00	PASS
11N20SISO	Ant1	2462	18.54	≤30.00	PASS
11N40SISO	Ant1	2422	16.51	≤30.00	PASS
11N40SISO	Ant1	2437	15.94	≤30.00	PASS
11N40SISO	Ant1	2452	18.55	≤30.00	PASS

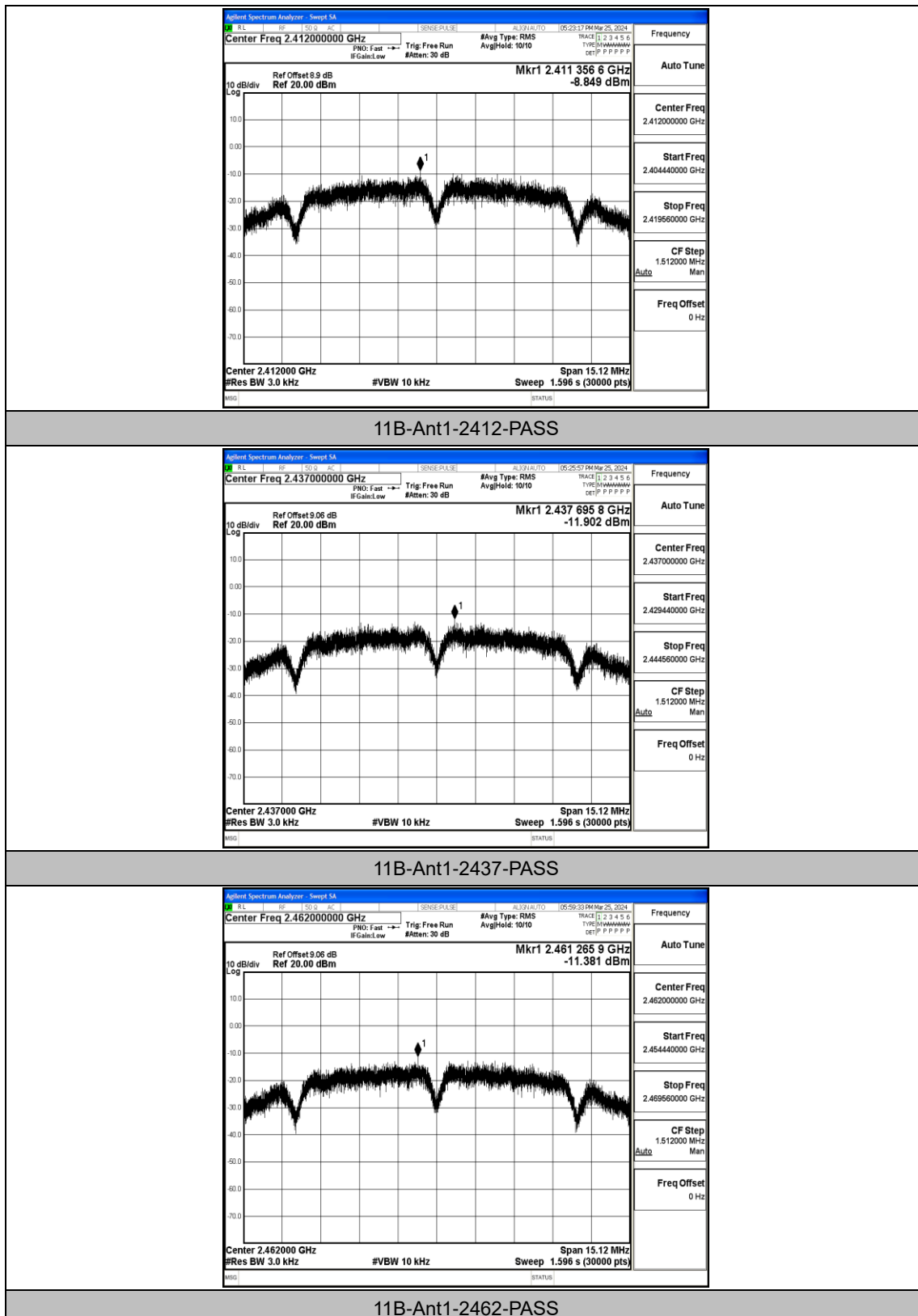
Note: The Duty Cycle Factor is compensated in the result.

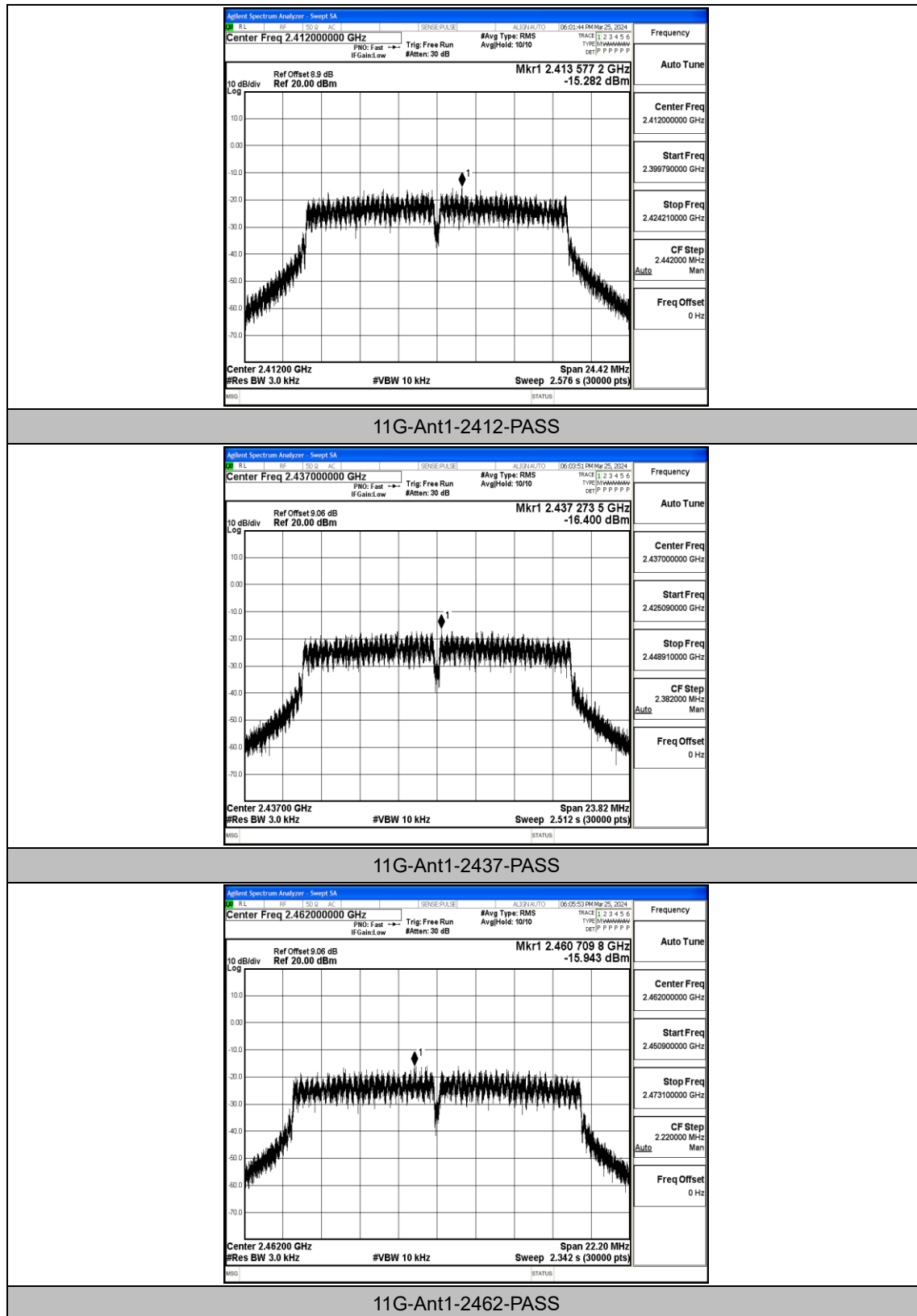
Appendix D: Maximum Peak power spectral density

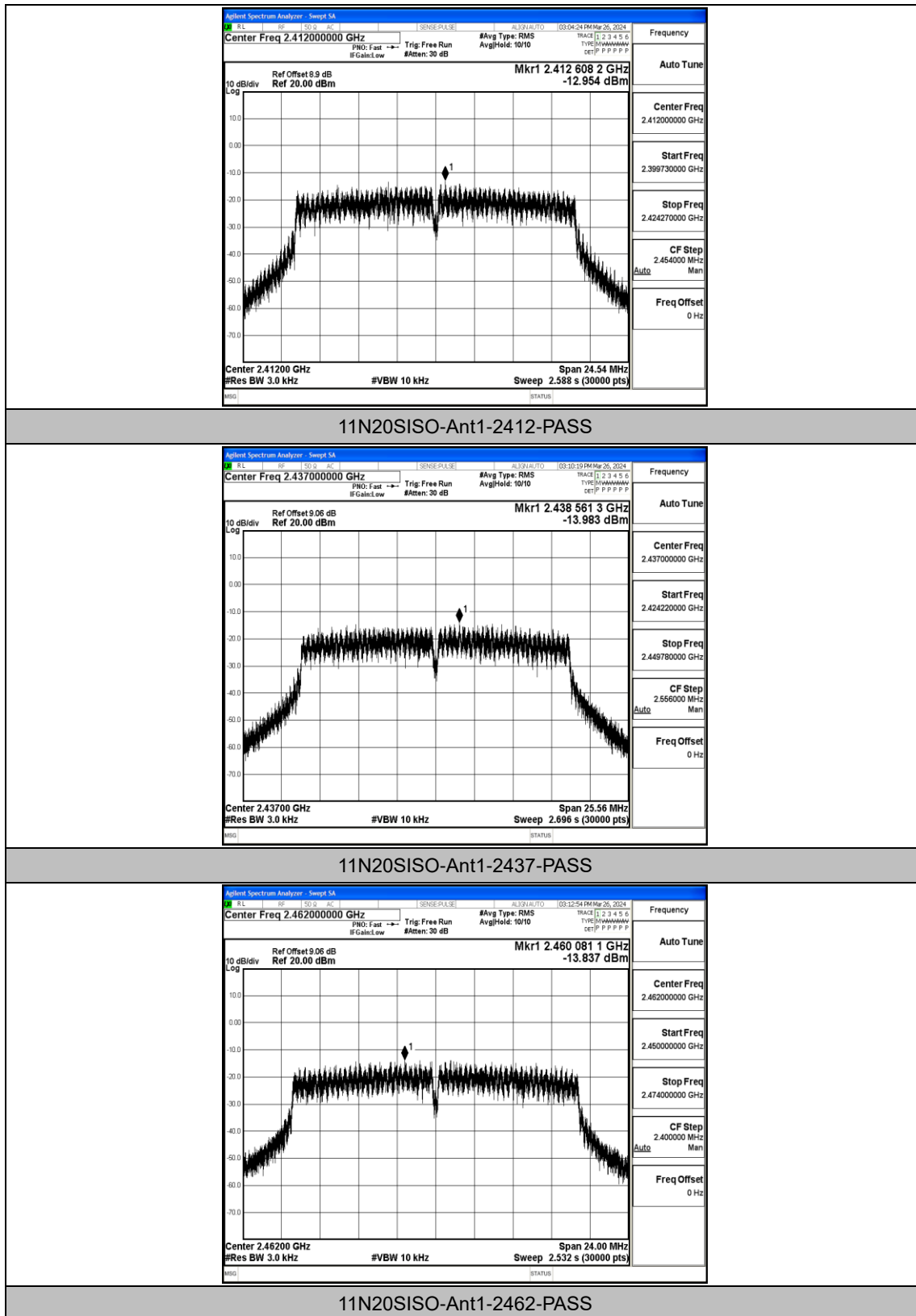
Test Result

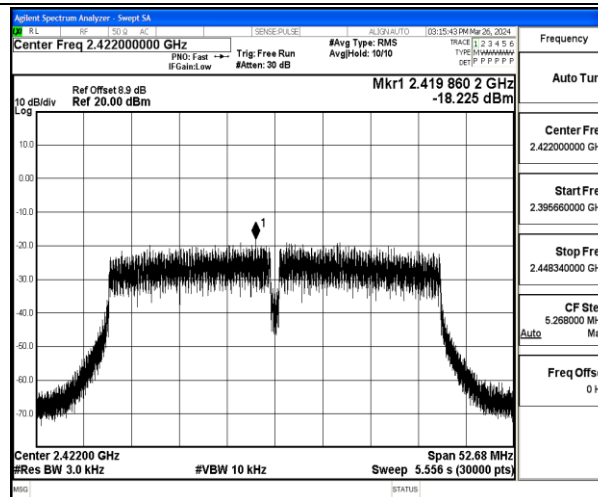
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.85	≤8.00	PASS
11B	Ant1	2437	-11.90	≤8.00	PASS
11B	Ant1	2462	-11.38	≤8.00	PASS
11G	Ant1	2412	-15.28	≤8.00	PASS
11G	Ant1	2437	-16.40	≤8.00	PASS
11G	Ant1	2462	-15.94	≤8.00	PASS
11N20SISO	Ant1	2412	-12.95	≤8.00	PASS
11N20SISO	Ant1	2437	-13.98	≤8.00	PASS
11N20SISO	Ant1	2462	-13.84	≤8.00	PASS
11N40SISO	Ant1	2422	-18.23	≤8.00	PASS
11N40SISO	Ant1	2437	-17.91	≤8.00	PASS
11N40SISO	Ant1	2452	-16.43	≤8.00	PASS

Test Graphs

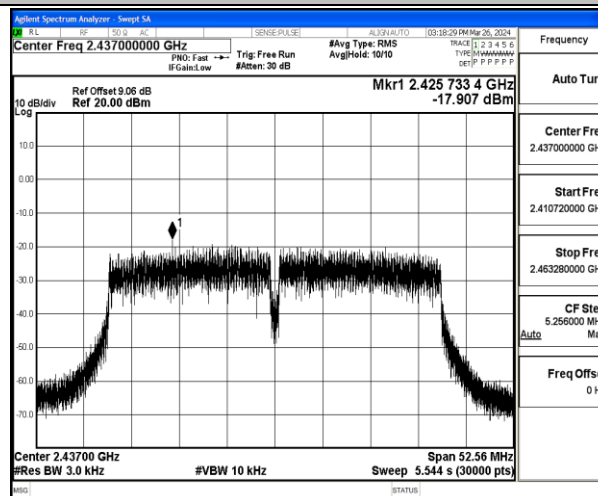




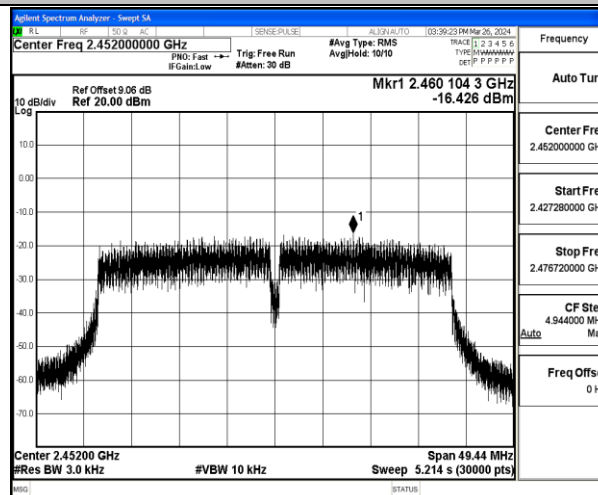




11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



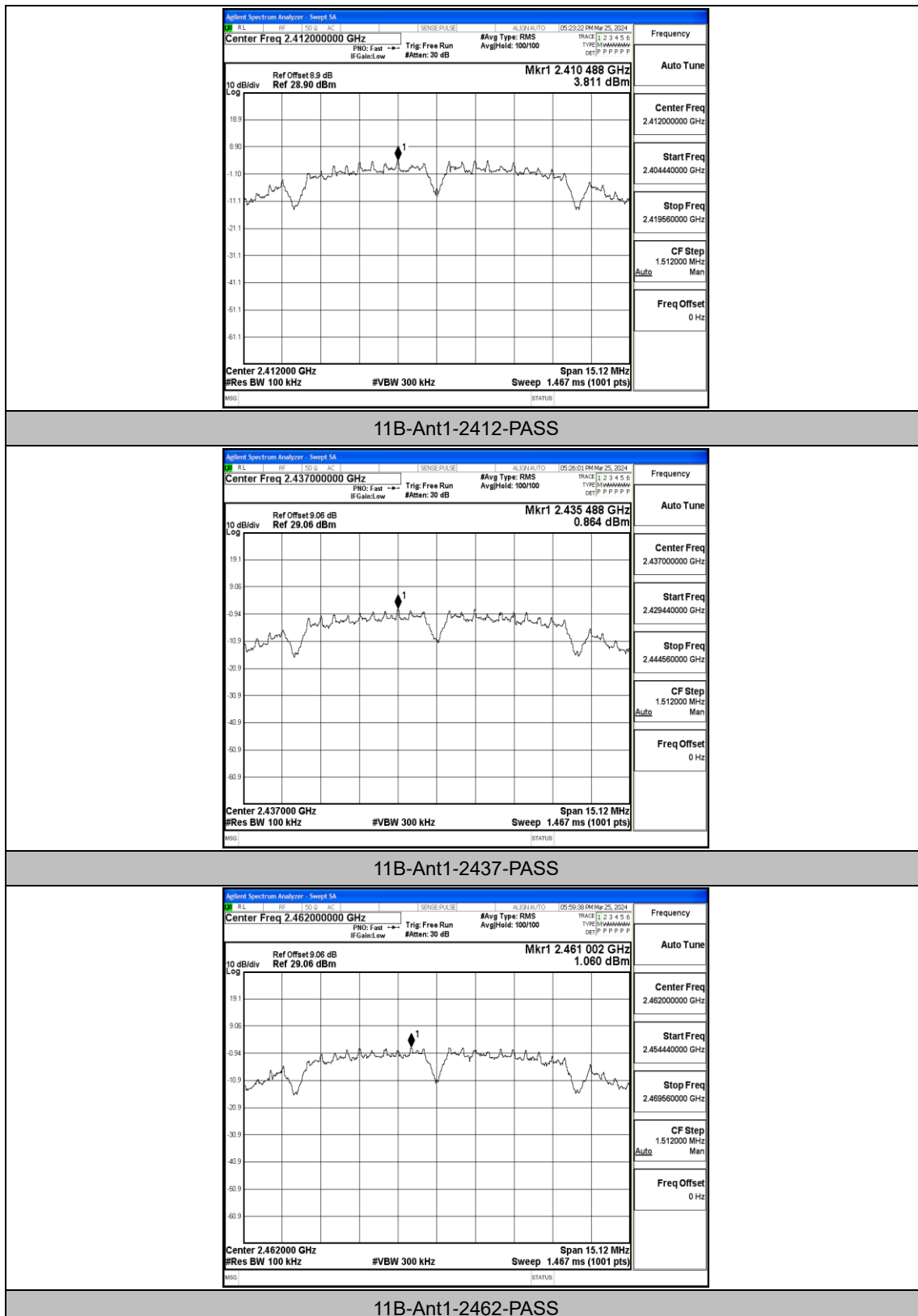
11N40SISO-Ant1-2452-PASS

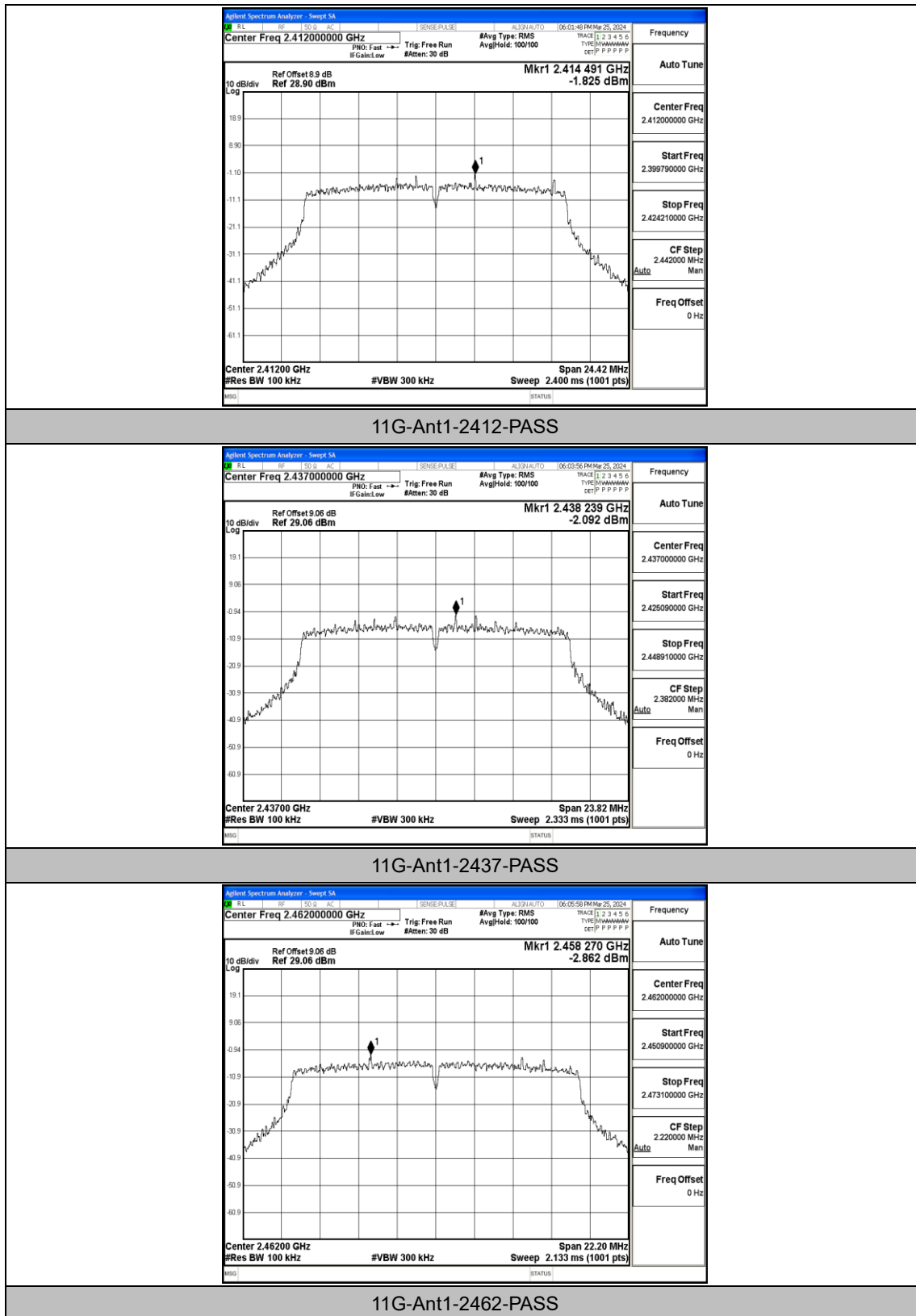
Appendix E: Reference level measurement

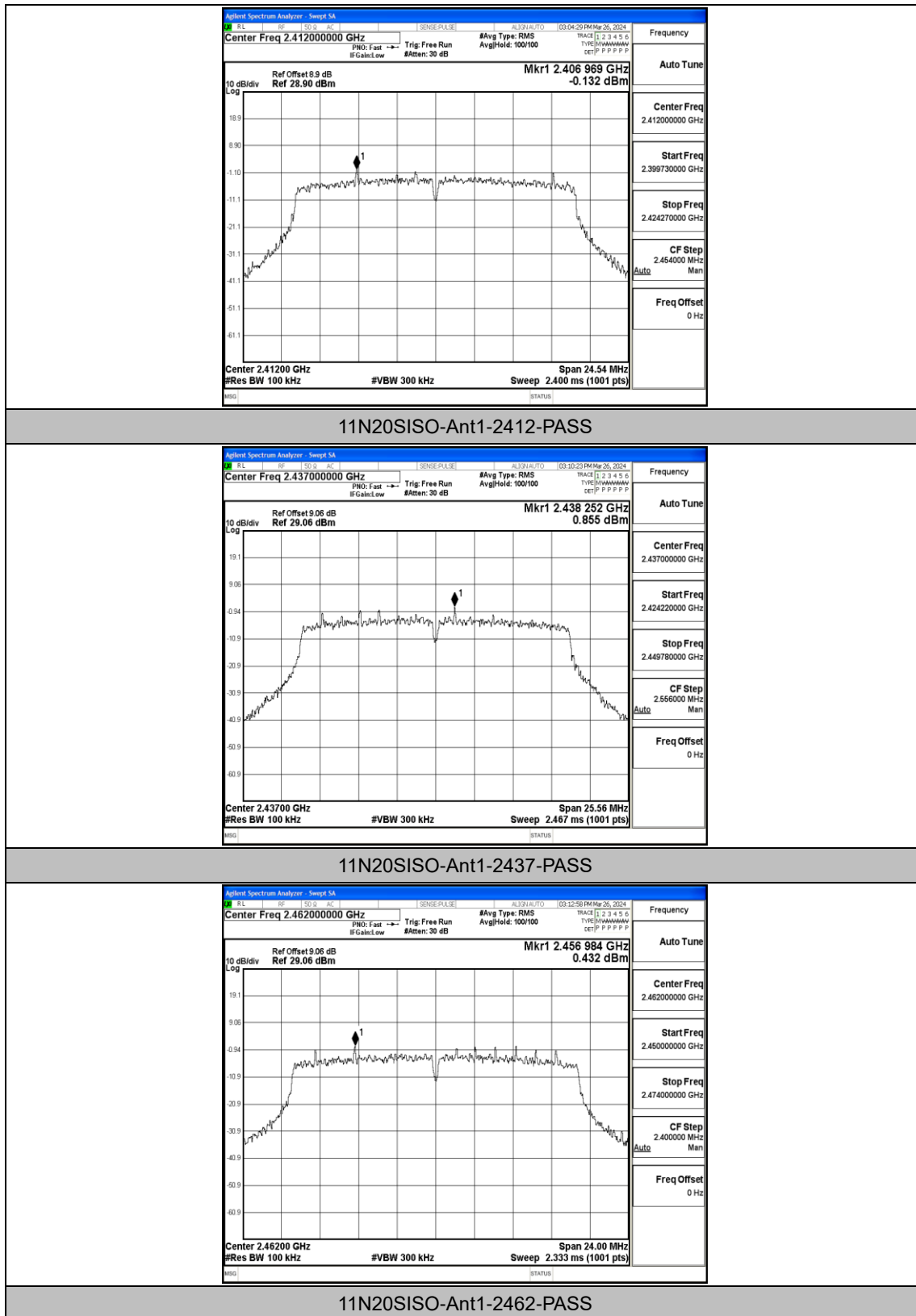
Test Result

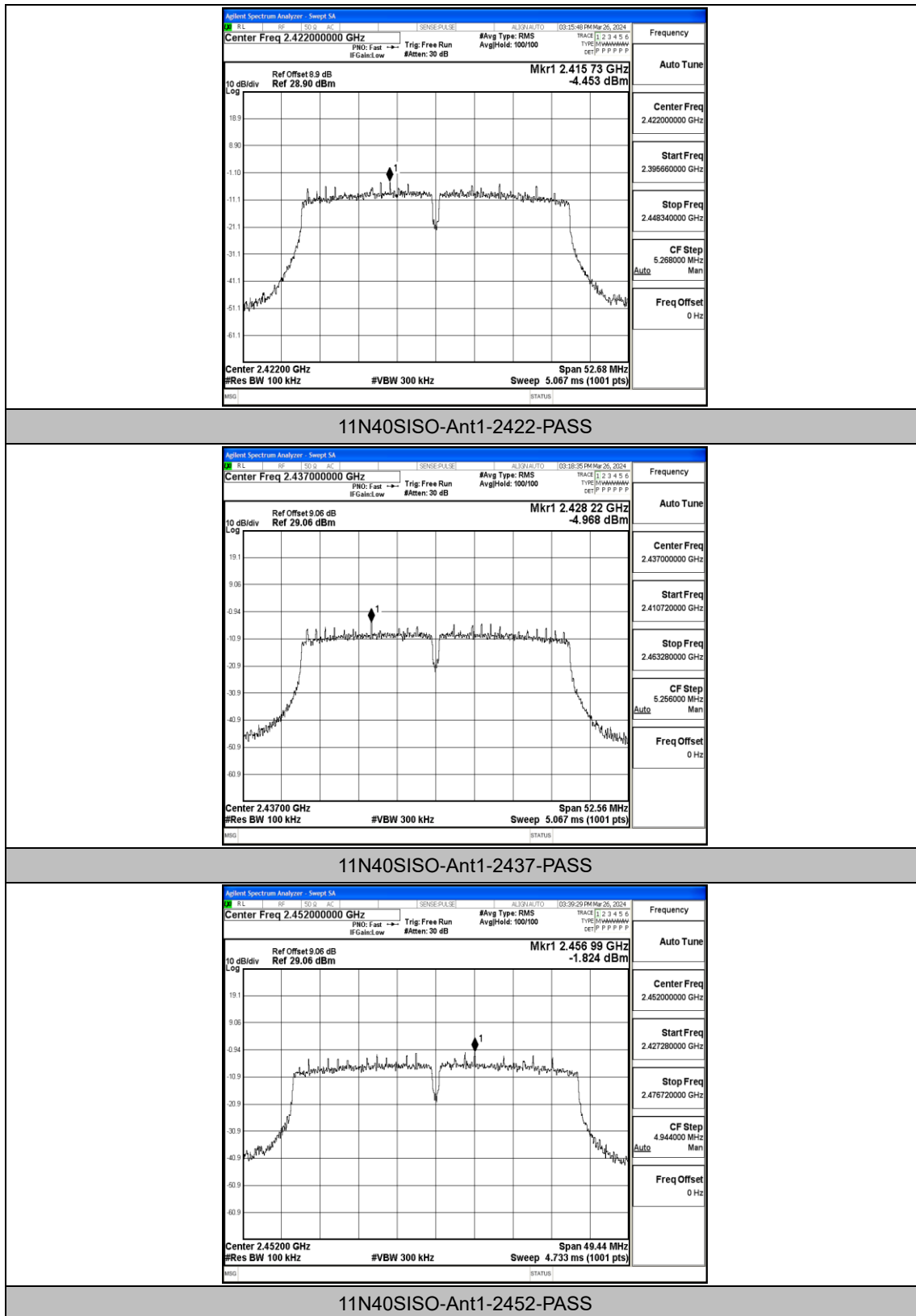
TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
11B	Ant1	2412	2410.49	3.81
11B	Ant1	2437	2435.49	0.86
11B	Ant1	2462	2461.00	1.06
11G	Ant1	2412	2414.49	-1.83
11G	Ant1	2437	2438.24	-2.09
11G	Ant1	2462	2458.27	-2.86
11N20SISO	Ant1	2412	2406.97	-0.13
11N20SISO	Ant1	2437	2438.25	0.86
11N20SISO	Ant1	2462	2456.98	0.43
11N40SISO	Ant1	2422	2415.73	-4.45
11N40SISO	Ant1	2437	2428.22	-4.97
11N40SISO	Ant1	2452	2456.99	-1.82

Test Graphs







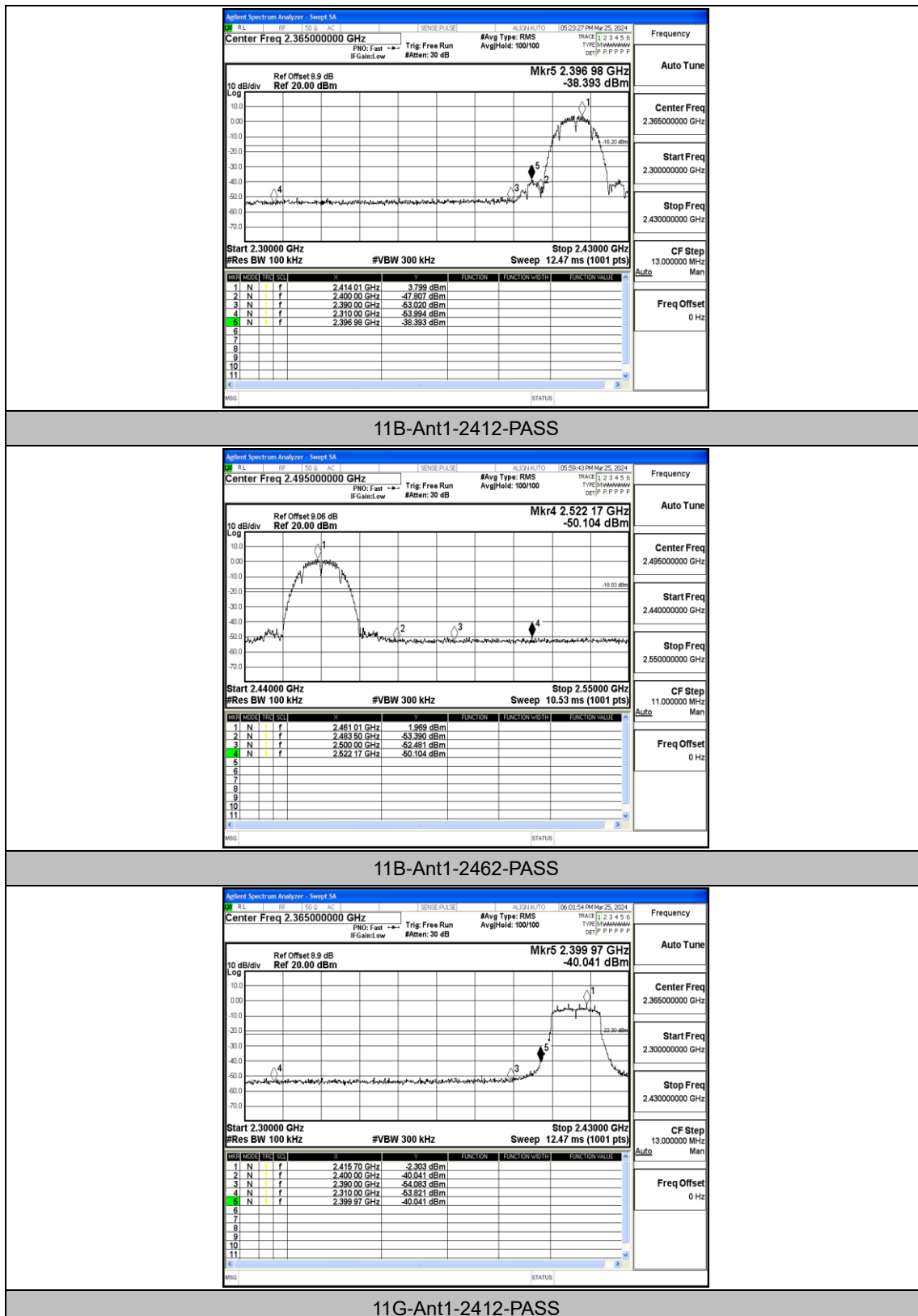


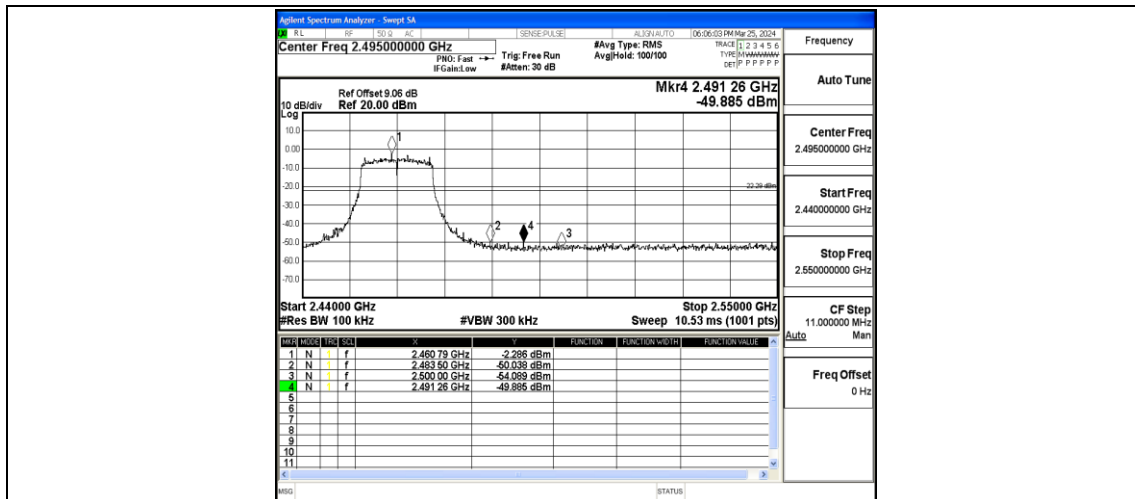
Appendix F: Band edge measurements

Test Result

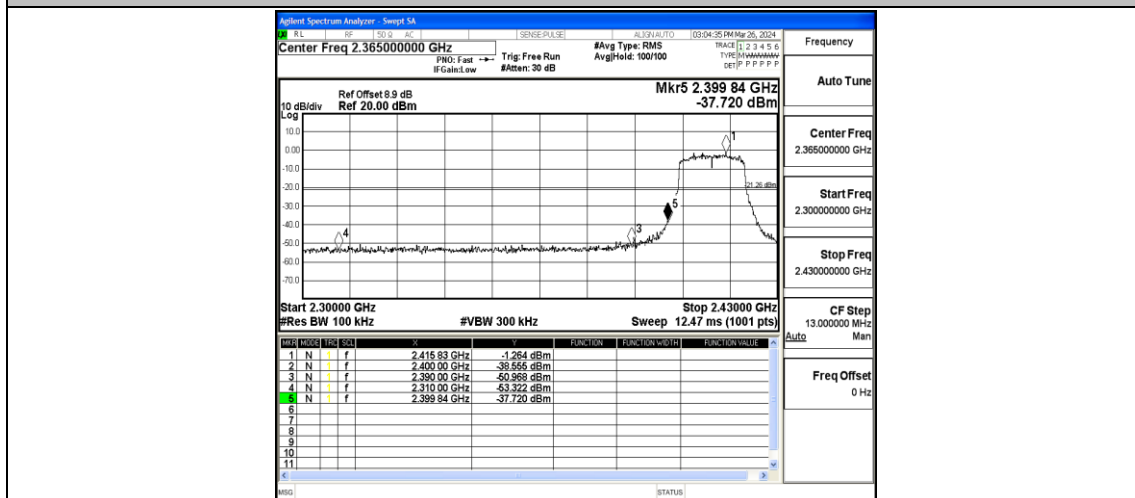
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.80	-38.39	≤-16.2	PASS
11B	Ant1	High	2462	1.97	-50.1	≤-18.03	PASS
11G	Ant1	Low	2412	-2.30	-40.04	≤-22.3	PASS
11G	Ant1	High	2462	-2.29	-49.89	≤-22.29	PASS
11N20SISO	Ant1	Low	2412	-1.26	-37.72	≤-21.26	PASS
11N20SISO	Ant1	High	2462	1.43	-47.65	≤-18.57	PASS
11N40SISO	Ant1	Low	2422	-4.24	-43.97	≤-24.24	PASS
11N40SISO	Ant1	High	2452	-2.18	-42.4	≤-22.18	PASS

Test Graphs

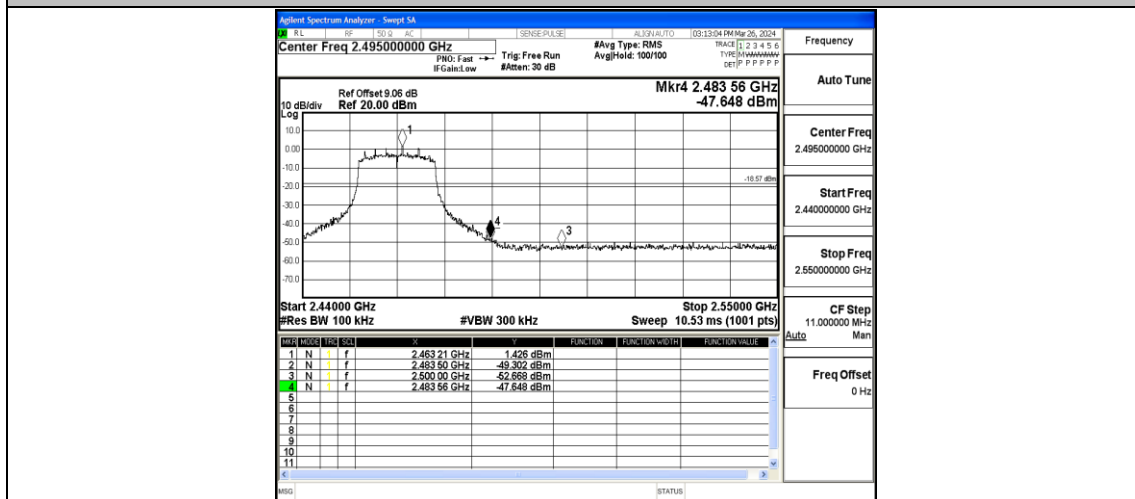




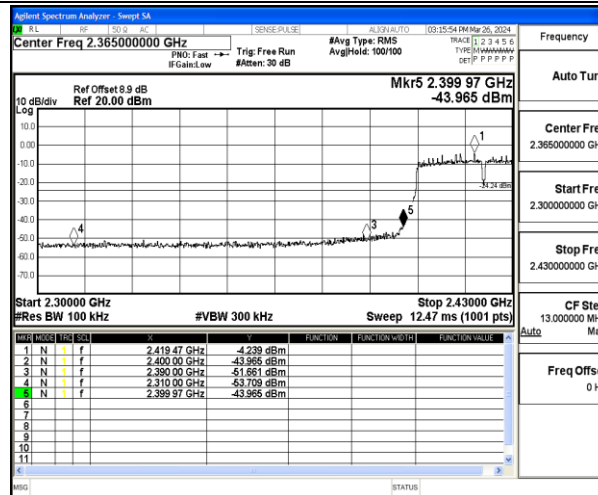
11G-Ant1-2462-PASS



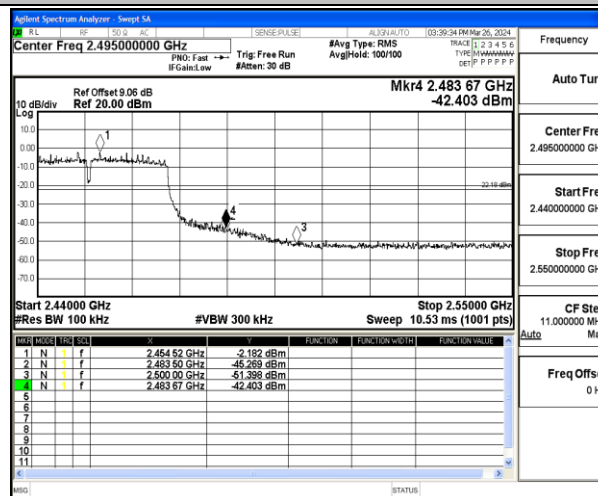
11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



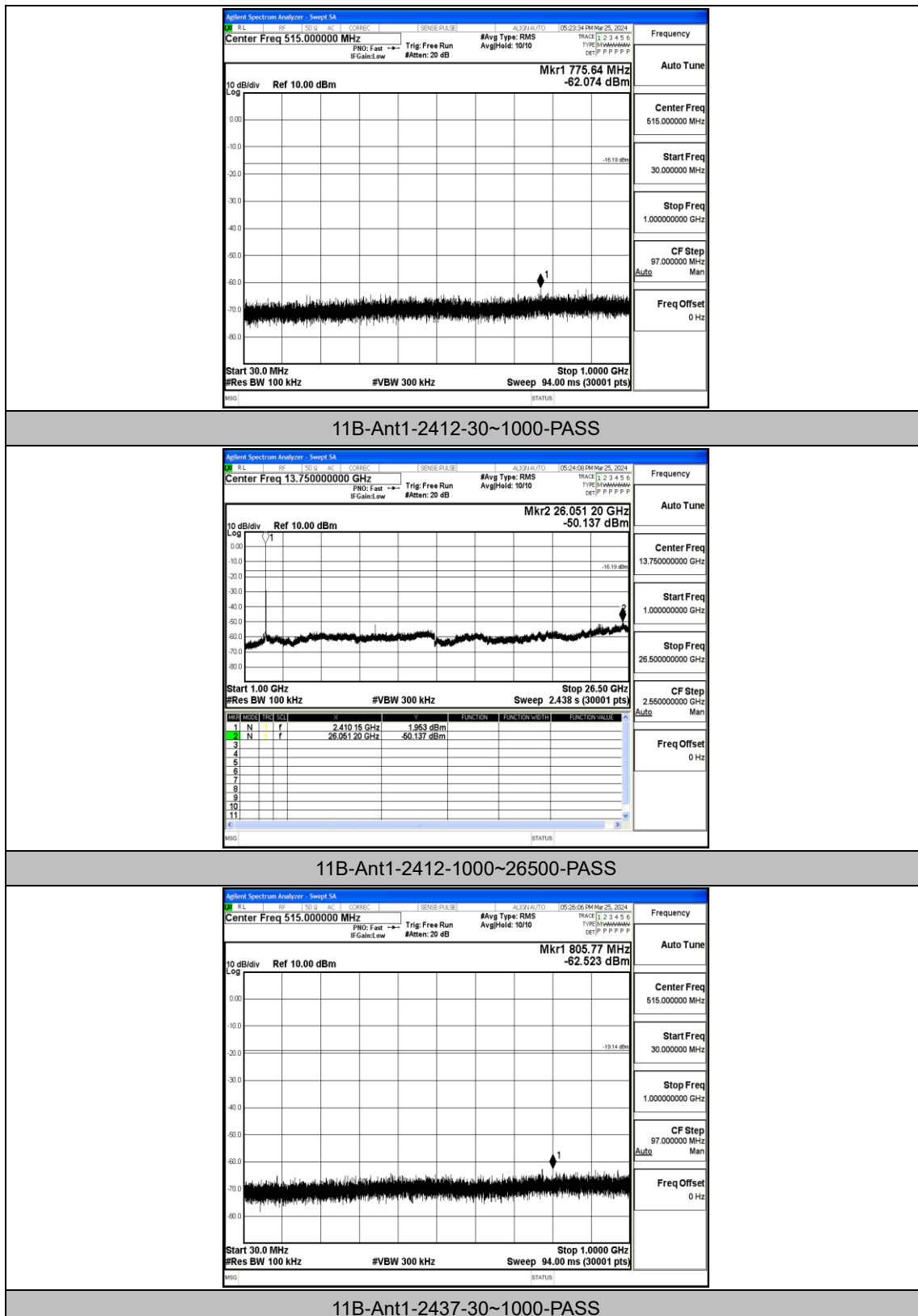
11N40SISO-Ant1-2452-PASS

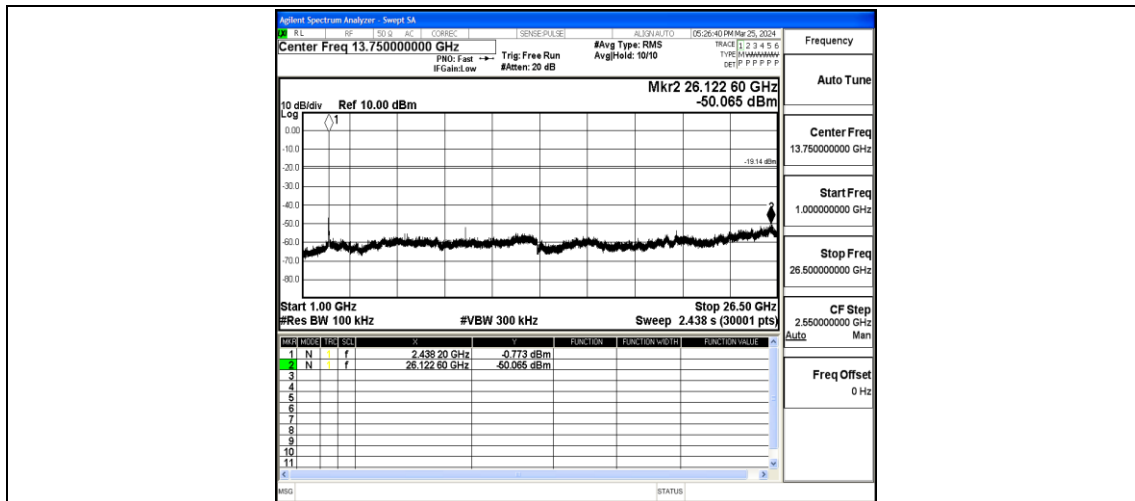
Appendix G: Conducted Spurious Emission

Test Result

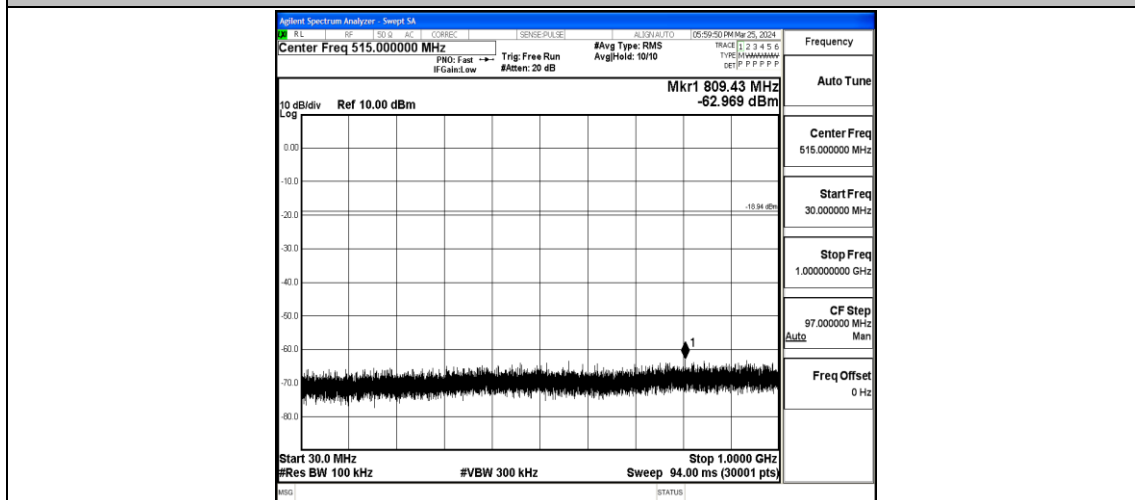
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	3.81	-62.07	≤-16.19	PASS
11B	Ant1	2412	1000~26500	3.81	-50.14	≤-16.19	PASS
11B	Ant1	2437	30~1000	0.86	-62.52	≤-19.14	PASS
11B	Ant1	2437	1000~26500	0.86	-50.07	≤-19.14	PASS
11B	Ant1	2462	30~1000	1.06	-62.97	≤-18.94	PASS
11B	Ant1	2462	1000~26500	1.06	-50.15	≤-18.94	PASS
11G	Ant1	2412	30~1000	-1.83	-63.5	≤-21.83	PASS
11G	Ant1	2412	1000~26500	-1.83	-50.4	≤-21.83	PASS
11G	Ant1	2437	30~1000	-2.09	-62.6	≤-22.09	PASS
11G	Ant1	2437	1000~26500	-2.09	-50.63	≤-22.09	PASS
11G	Ant1	2462	30~1000	-2.86	-63.21	≤-22.86	PASS
11G	Ant1	2462	1000~26500	-2.86	-50.47	≤-22.86	PASS
11N20SISO	Ant1	2412	30~1000	-0.13	-63.31	≤-20.13	PASS
11N20SISO	Ant1	2412	1000~26500	-0.13	-50.37	≤-20.13	PASS
11N20SISO	Ant1	2437	30~1000	0.86	-63.21	≤-19.14	PASS
11N20SISO	Ant1	2437	1000~26500	0.86	-50.32	≤-19.14	PASS
11N20SISO	Ant1	2462	30~1000	0.43	-62.12	≤-19.57	PASS
11N20SISO	Ant1	2462	1000~26500	0.43	-49.75	≤-19.57	PASS
11N40SISO	Ant1	2422	30~1000	-4.45	-63.06	≤-24.45	PASS
11N40SISO	Ant1	2422	1000~26500	-4.45	-50.84	≤-24.45	PASS
11N40SISO	Ant1	2437	30~1000	-4.97	-62.31	≤-24.97	PASS
11N40SISO	Ant1	2437	1000~26500	-4.97	-50.35	≤-24.97	PASS
11N40SISO	Ant1	2452	30~1000	-1.82	-62.79	≤-21.82	PASS
11N40SISO	Ant1	2452	1000~26500	-1.82	-50.01	≤-21.82	PASS

Test Graphs

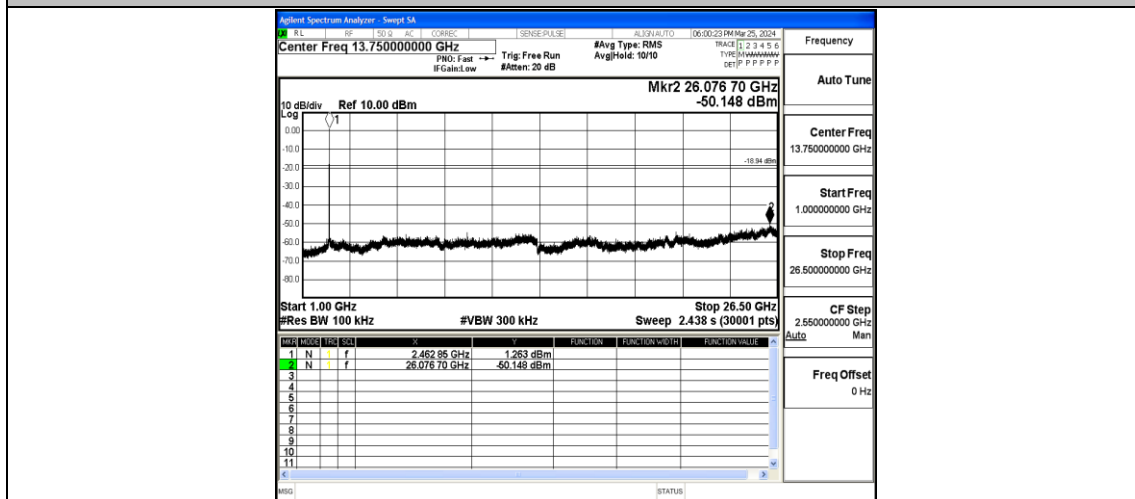




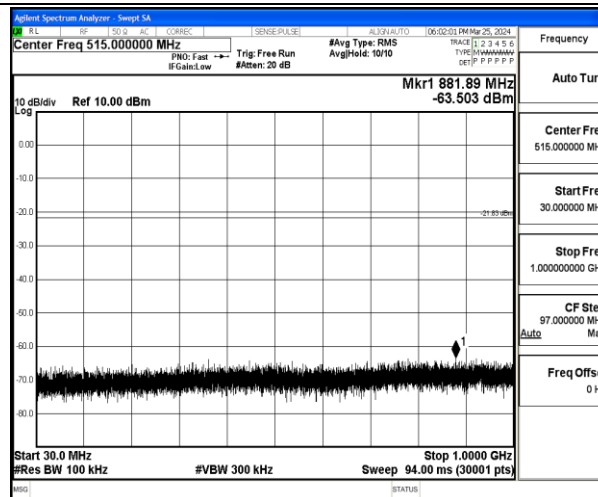
11B-Ant1-2437-1000~26500-PASS



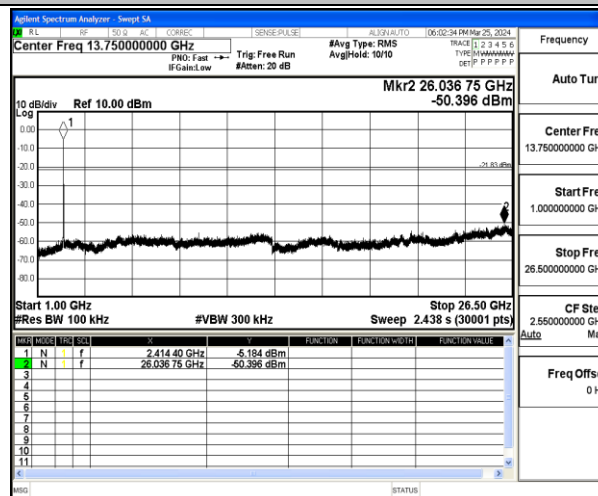
11B-Ant1-2462-30~1000-PASS



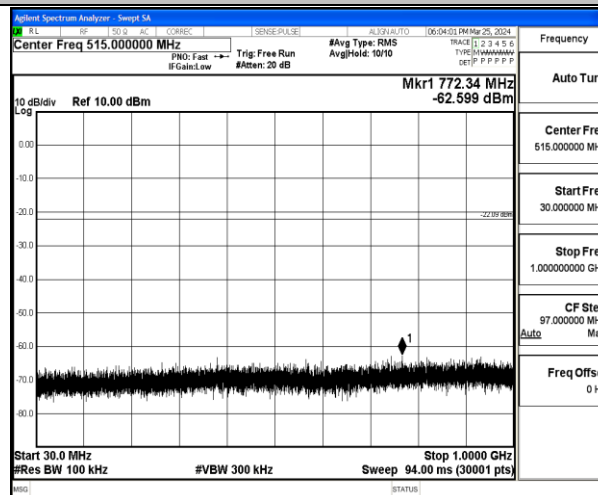
11B-Ant1-2462-1000~26500-PASS



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



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



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