

Appendix A

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Manicure Machine

Test Model: SUNX

Environmental Conditions

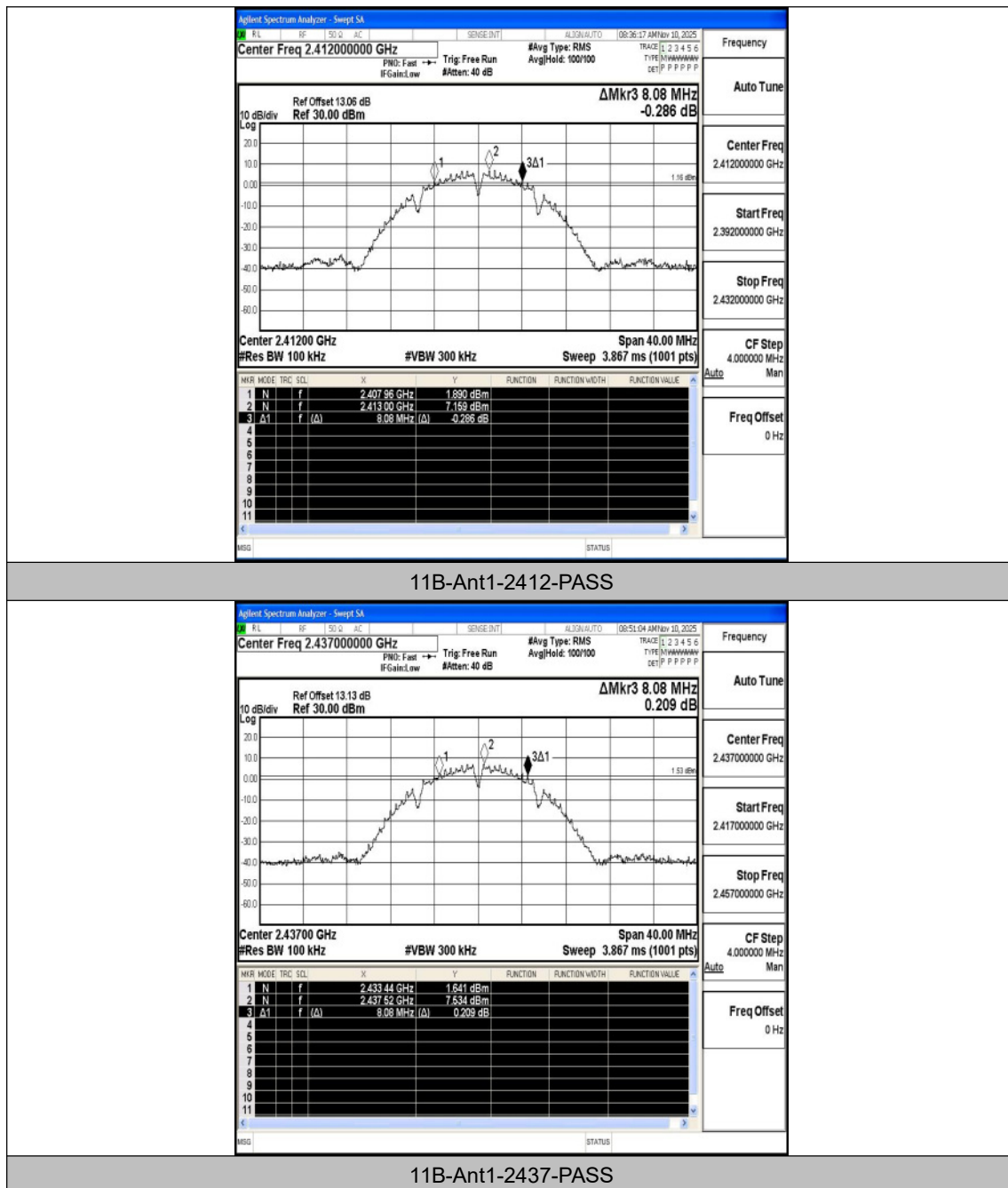
Temperature:	23.6° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ting He
Supervised by:	Fengliu Tang

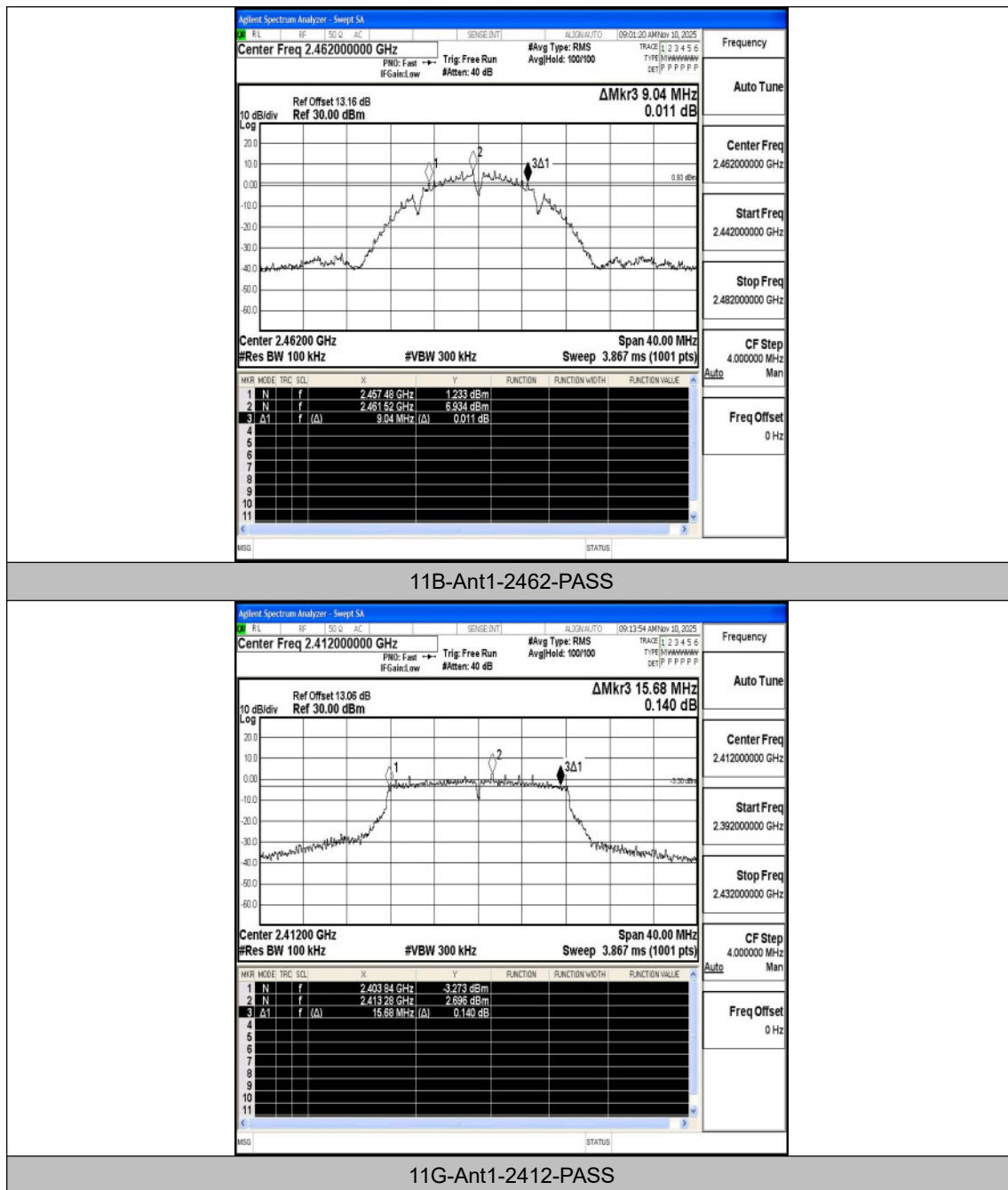
A.1 DTS Bandwidth

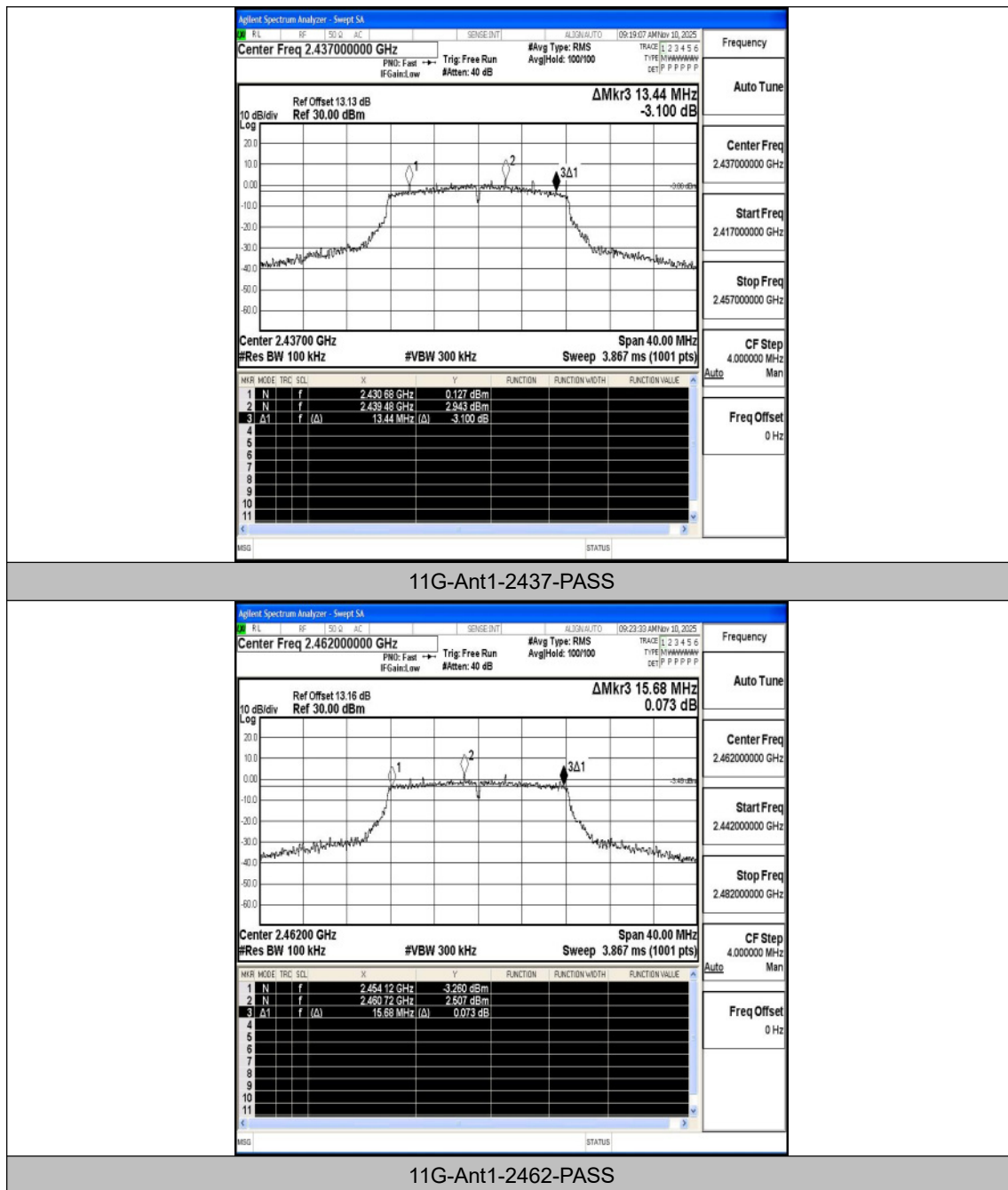
Test Result

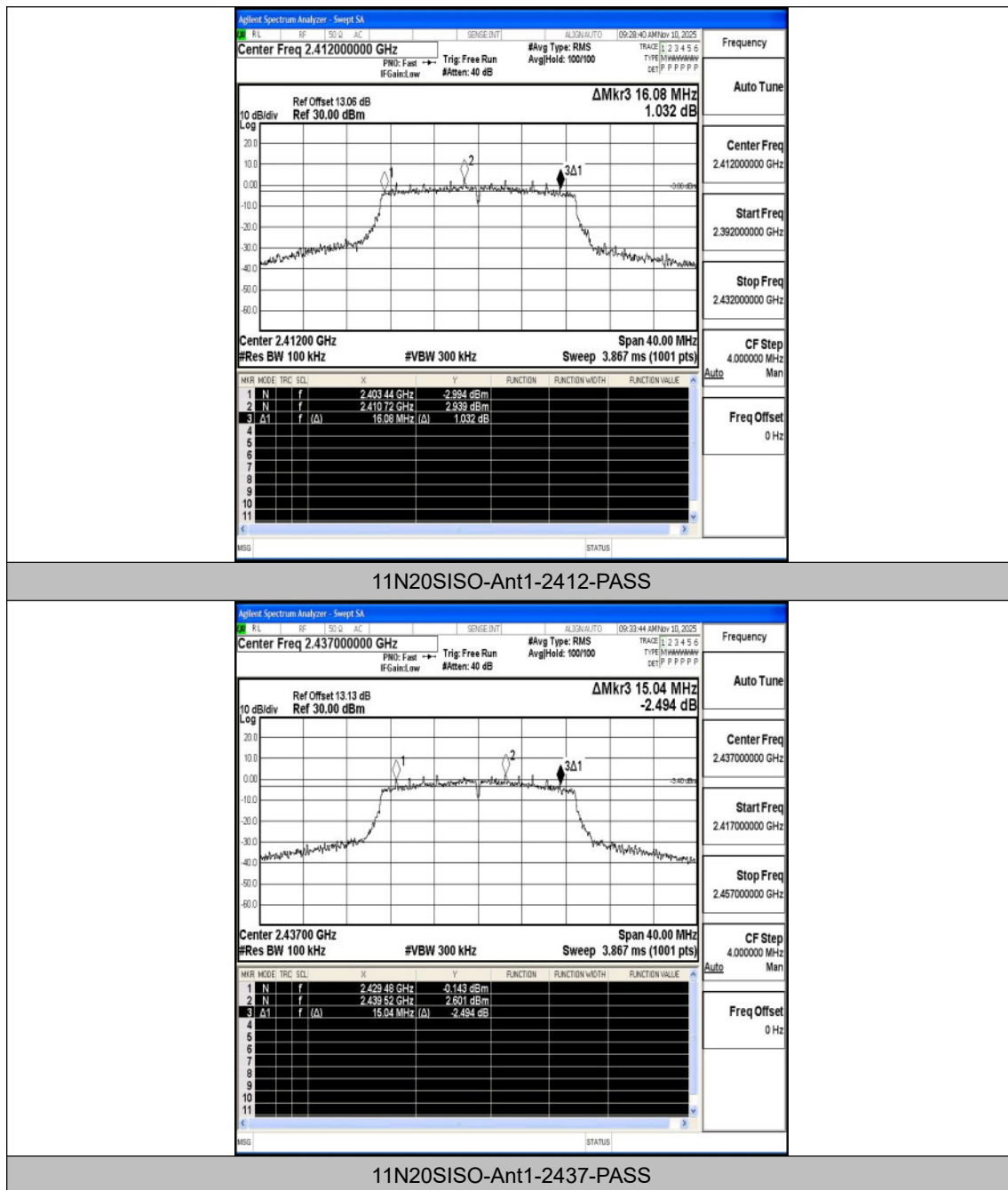
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.080	2407.960	2416.040	0.5	PASS
11B	Ant1	2437	8.080	2433.440	2441.520	0.5	PASS
11B	Ant1	2462	9.040	2457.480	2466.520	0.5	PASS
11G	Ant1	2412	15.680	2403.840	2419.520	0.5	PASS
11G	Ant1	2437	13.440	2430.680	2444.120	0.5	PASS
11G	Ant1	2462	15.680	2454.120	2469.800	0.5	PASS
11N20SISO	Ant1	2412	16.080	2403.440	2419.520	0.5	PASS
11N20SISO	Ant1	2437	15.040	2429.480	2444.520	0.5	PASS
11N20SISO	Ant1	2462	15.320	2454.240	2469.560	0.5	PASS
11N40SISO	Ant1	2422	35.120	2404.480	2439.600	0.5	PASS
11N40SISO	Ant1	2437	33.840	2420.680	2454.520	0.5	PASS
11N40SISO	Ant1	2452	35.120	2434.400	2469.520	0.5	PASS

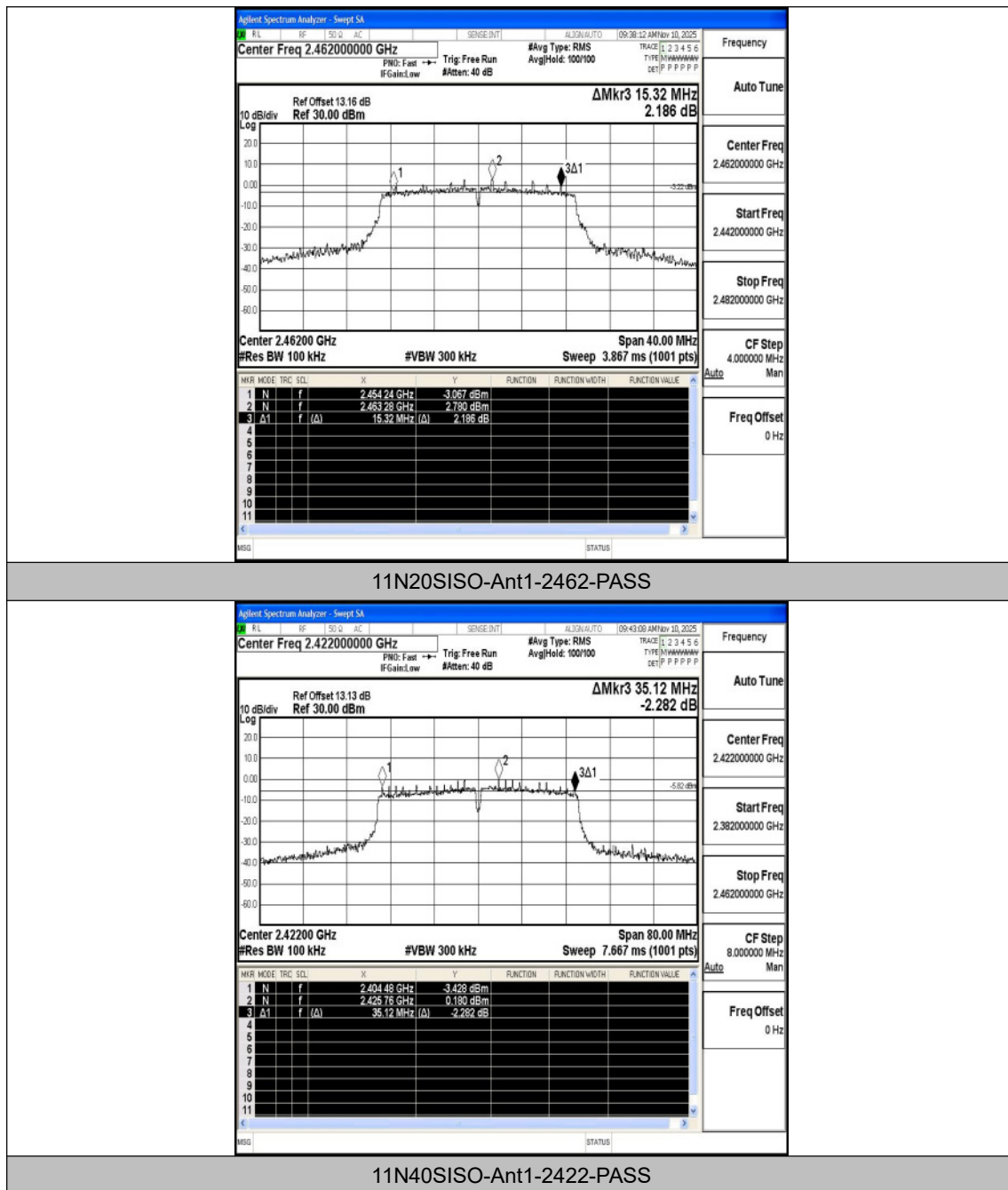
Test Graphs

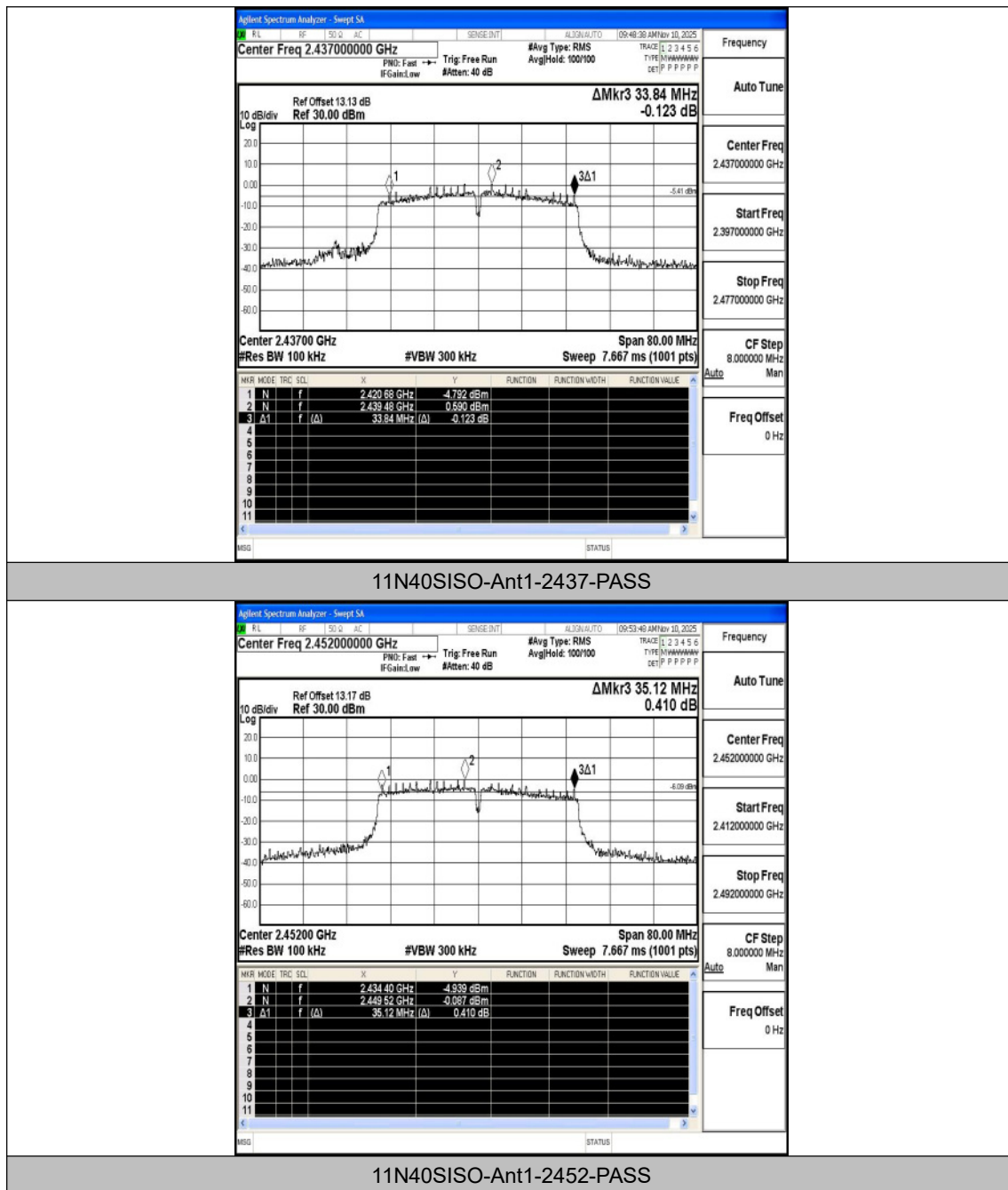












A.2 Maximum Peak conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	15.97	≤30.00	PASS
11B	Ant1	2437	16.49	≤30.00	PASS
11B	Ant1	2462	15.93	≤30.00	PASS
11G	Ant1	2412	14.19	≤30.00	PASS
11G	Ant1	2437	14.71	≤30.00	PASS
11G	Ant1	2462	14.40	≤30.00	PASS
11N20SISO	Ant1	2412	14.21	≤30.00	PASS
11N20SISO	Ant1	2437	14.51	≤30.00	PASS
11N20SISO	Ant1	2462	14.28	≤30.00	PASS
11N40SISO	Ant1	2422	13.85	≤30.00	PASS
11N40SISO	Ant1	2437	14.05	≤30.00	PASS
11N40SISO	Ant1	2452	13.90	≤30.00	PASS

Test Result Average

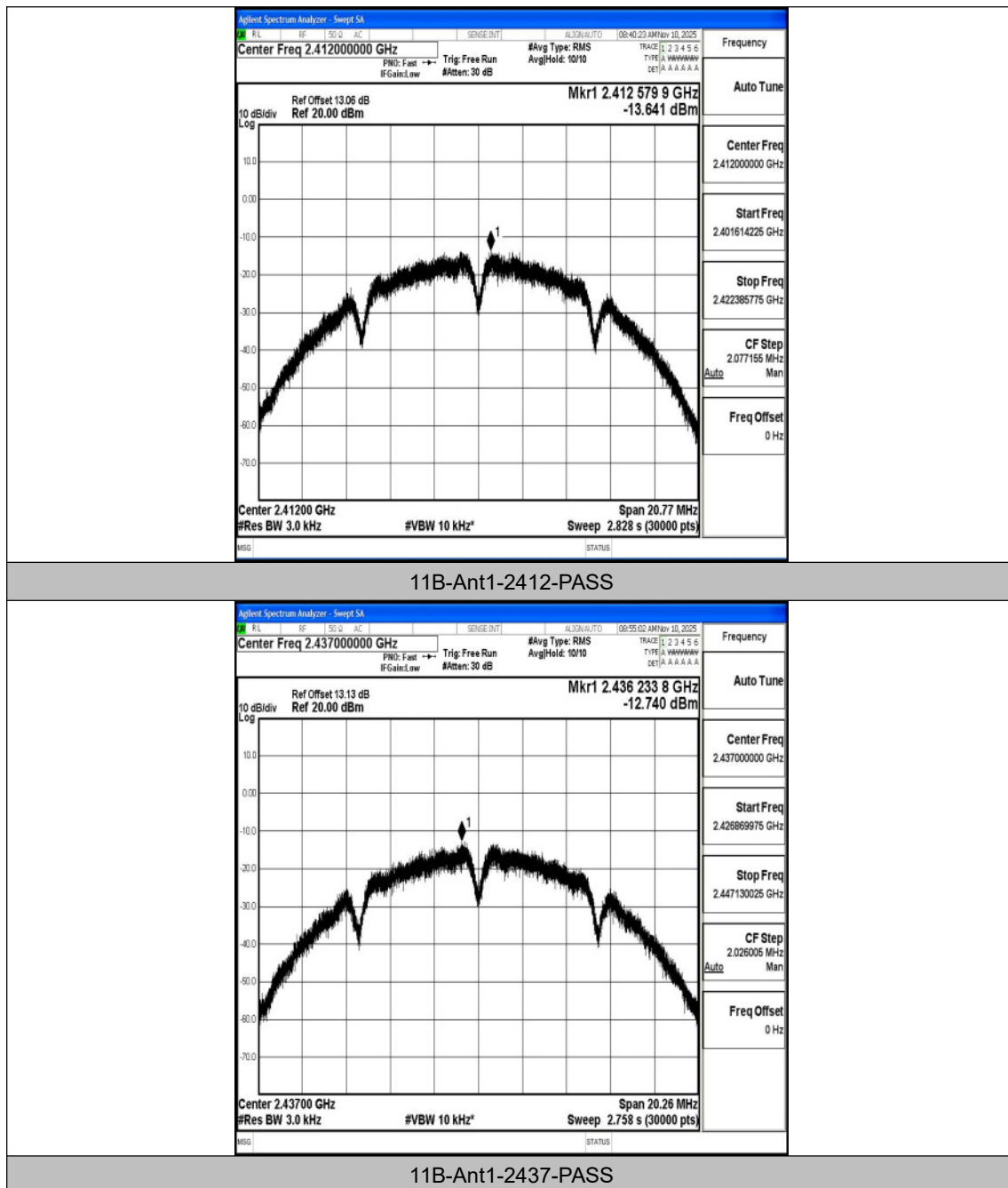
Test Mode	Antenna	Frequency[MHz]	Average power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	12.77	≤30.00	PASS
11B	Ant1	2437	12.95	≤30.00	PASS
11B	Ant1	2462	12.25	≤30.00	PASS
11G	Ant1	2412	12.57	≤30.00	PASS
11G	Ant1	2437	12.40	≤30.00	PASS
11G	Ant1	2462	12.13	≤30.00	PASS
11N20SISO	Ant1	2412	12.40	≤30.00	PASS
11N20SISO	Ant1	2437	12.25	≤30.00	PASS
11N20SISO	Ant1	2462	12.08	≤30.00	PASS
11N40SISO	Ant1	2422	12.81	≤30.00	PASS
11N40SISO	Ant1	2437	12.77	≤30.00	PASS
11N40SISO	Ant1	2452	12.61	≤30.00	PASS

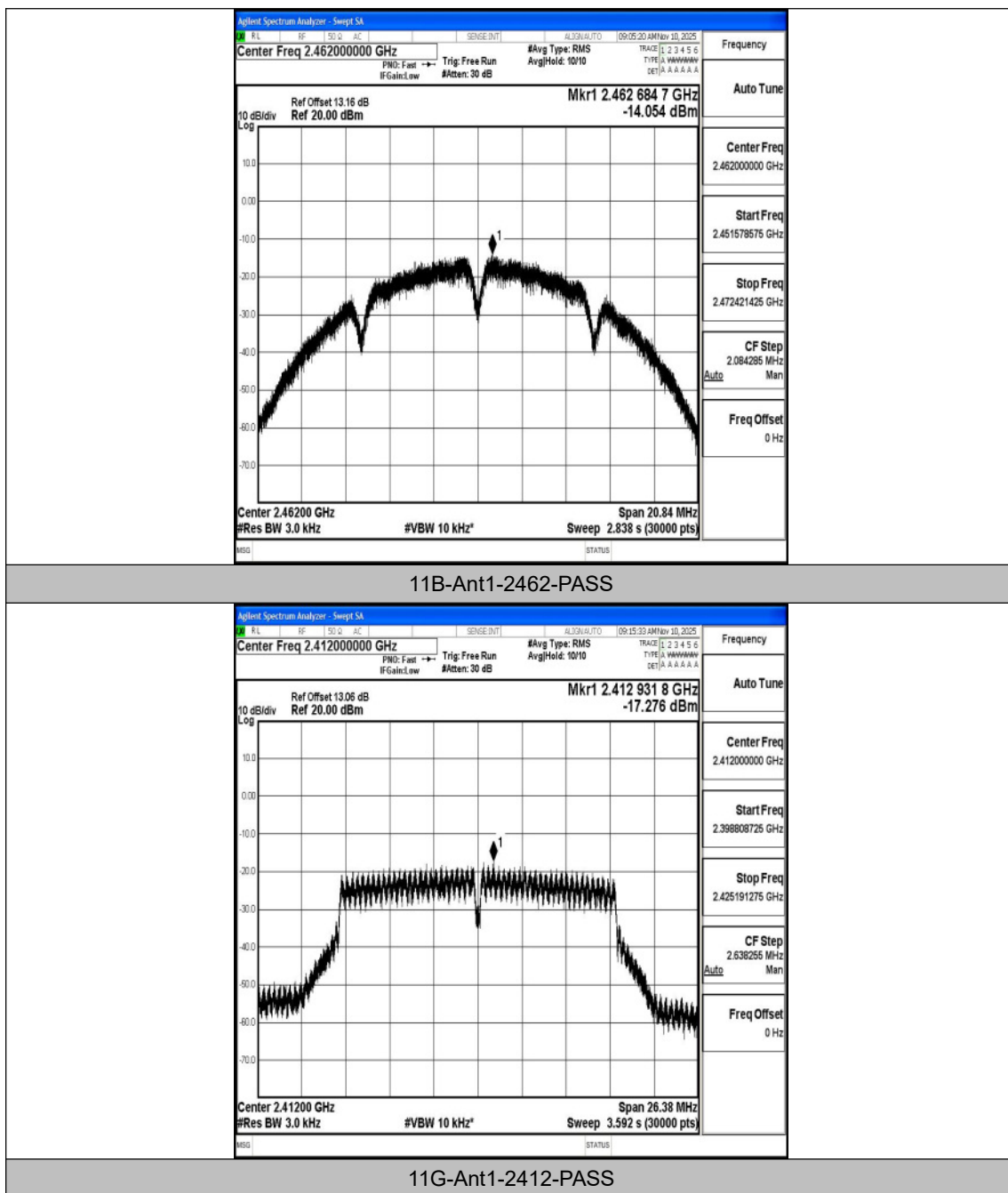
A.3 Maximum power spectral density

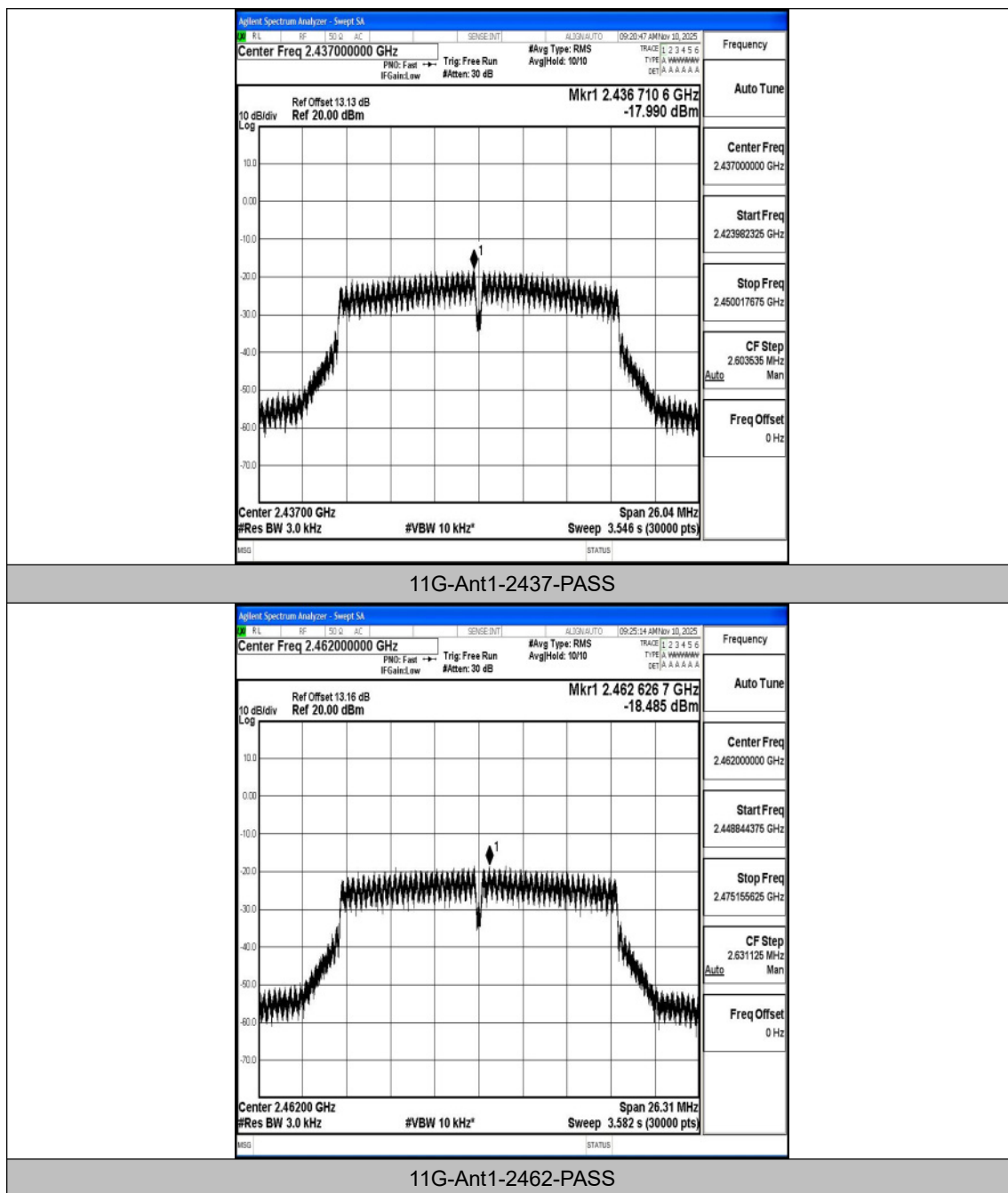
Test Result

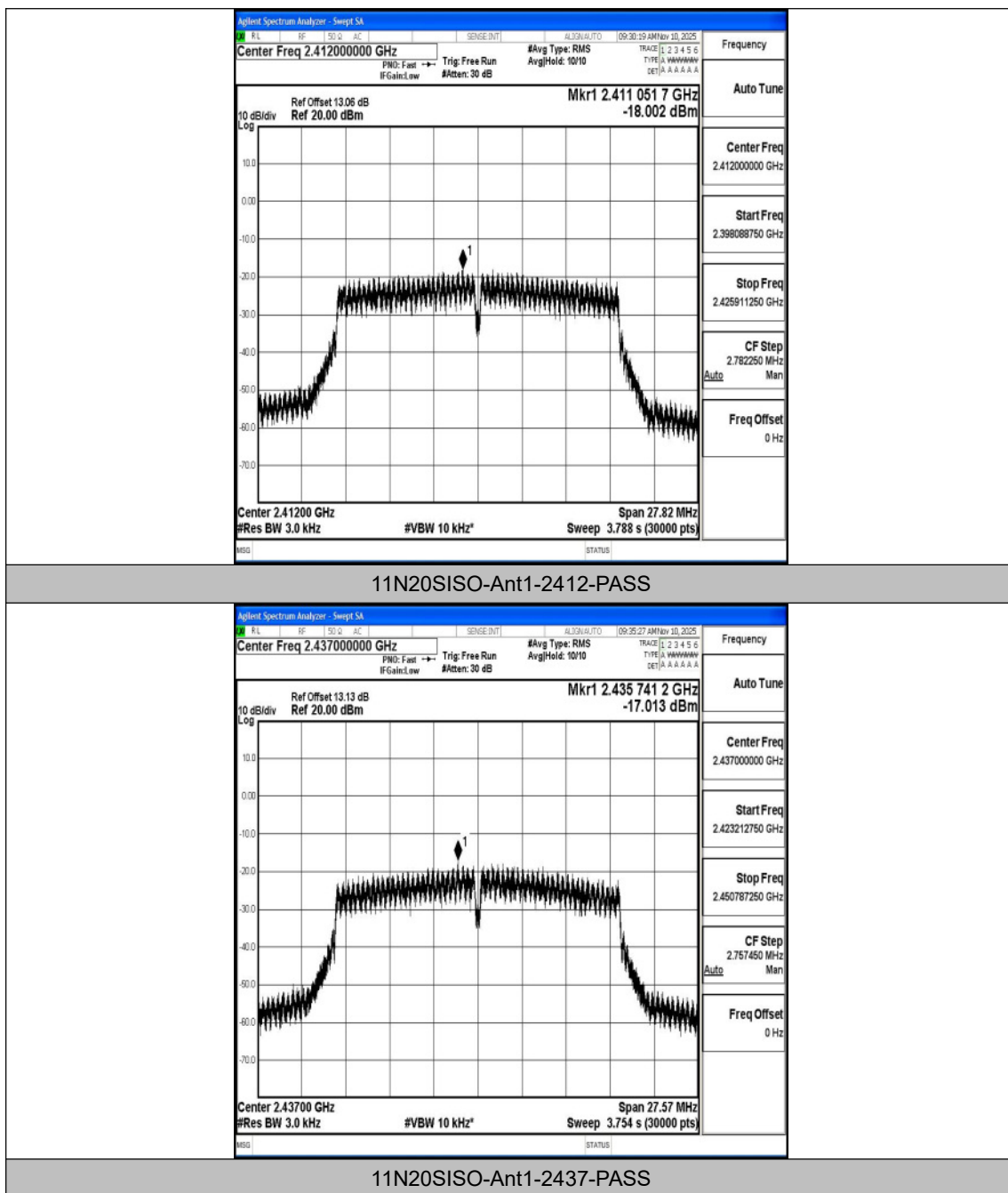
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-13.61	≤8.00	PASS
11B	Ant1	2437	-12.72	≤8.00	PASS
11B	Ant1	2462	-14.04	≤8.00	PASS
11G	Ant1	2412	-17.16	≤8.00	PASS
11G	Ant1	2437	-17.84	≤8.00	PASS
11G	Ant1	2462	-18.34	≤8.00	PASS
11N20SISO	Ant1	2412	-17.84	≤8.00	PASS
11N20SISO	Ant1	2437	-16.85	≤8.00	PASS
11N20SISO	Ant1	2462	-18.59	≤8.00	PASS
11N40SISO	Ant1	2422	-19.67	≤8.00	PASS
11N40SISO	Ant1	2437	-20.22	≤8.00	PASS
11N40SISO	Ant1	2452	-20.81	≤8.00	PASS

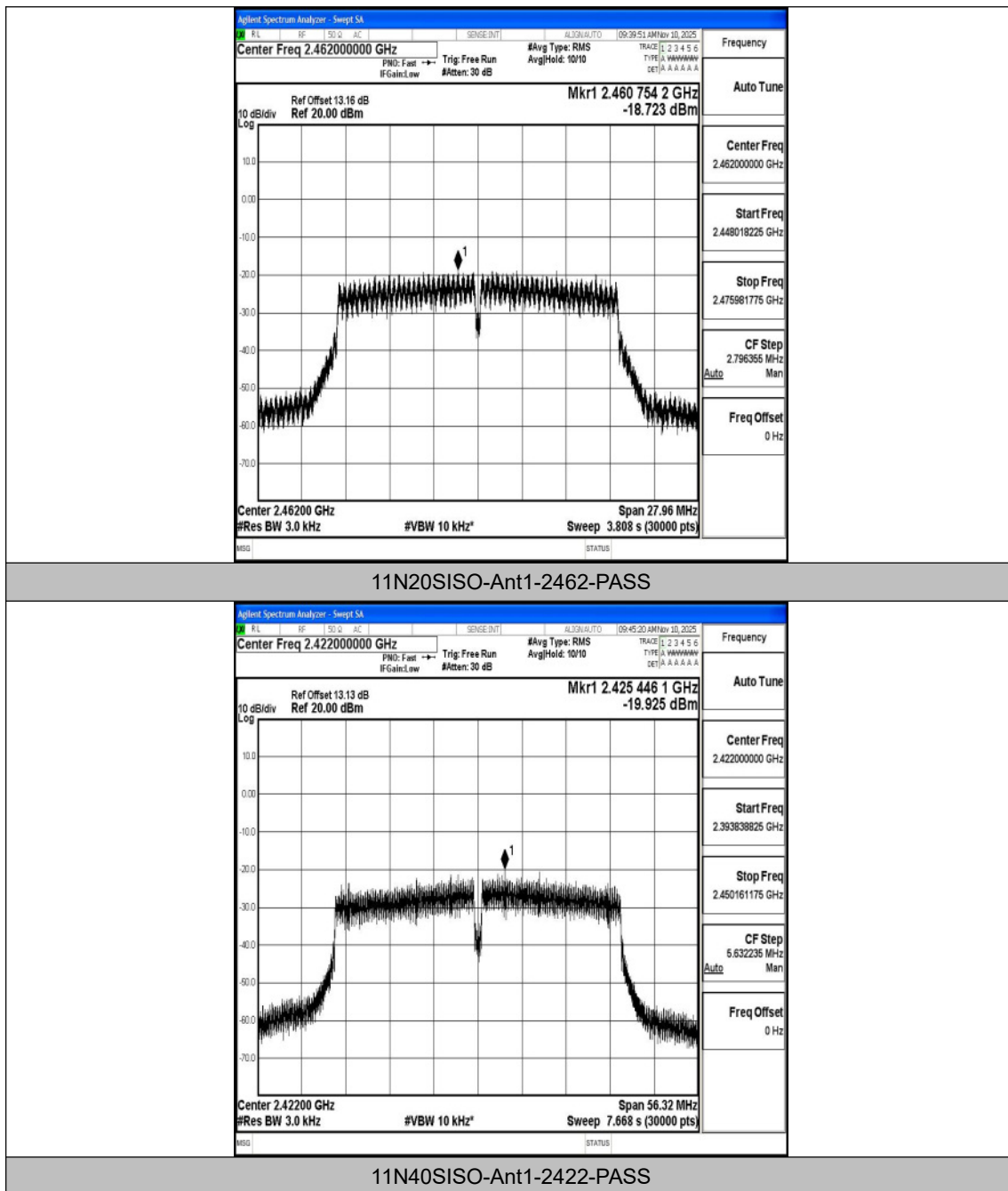
Test Graphs

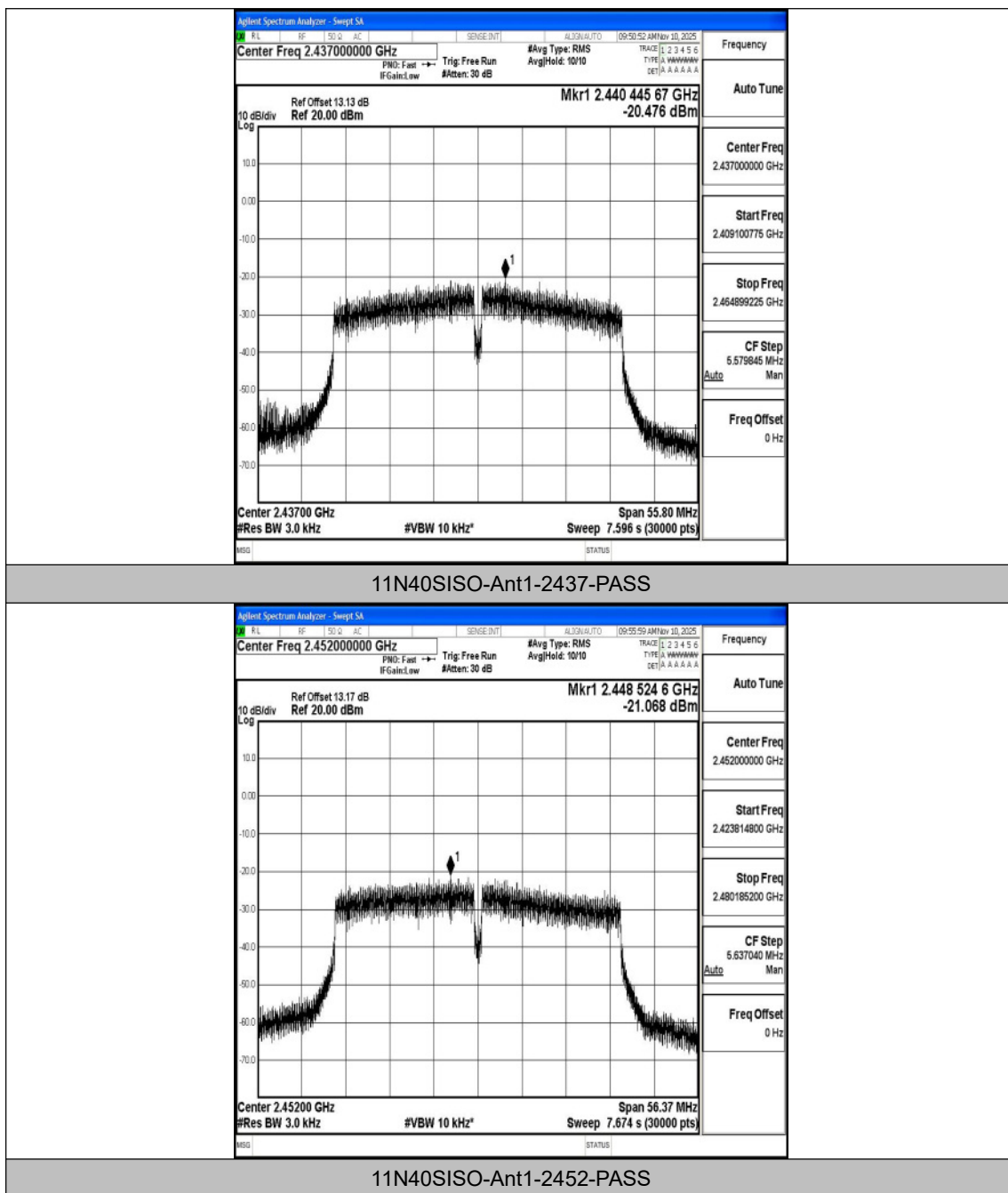










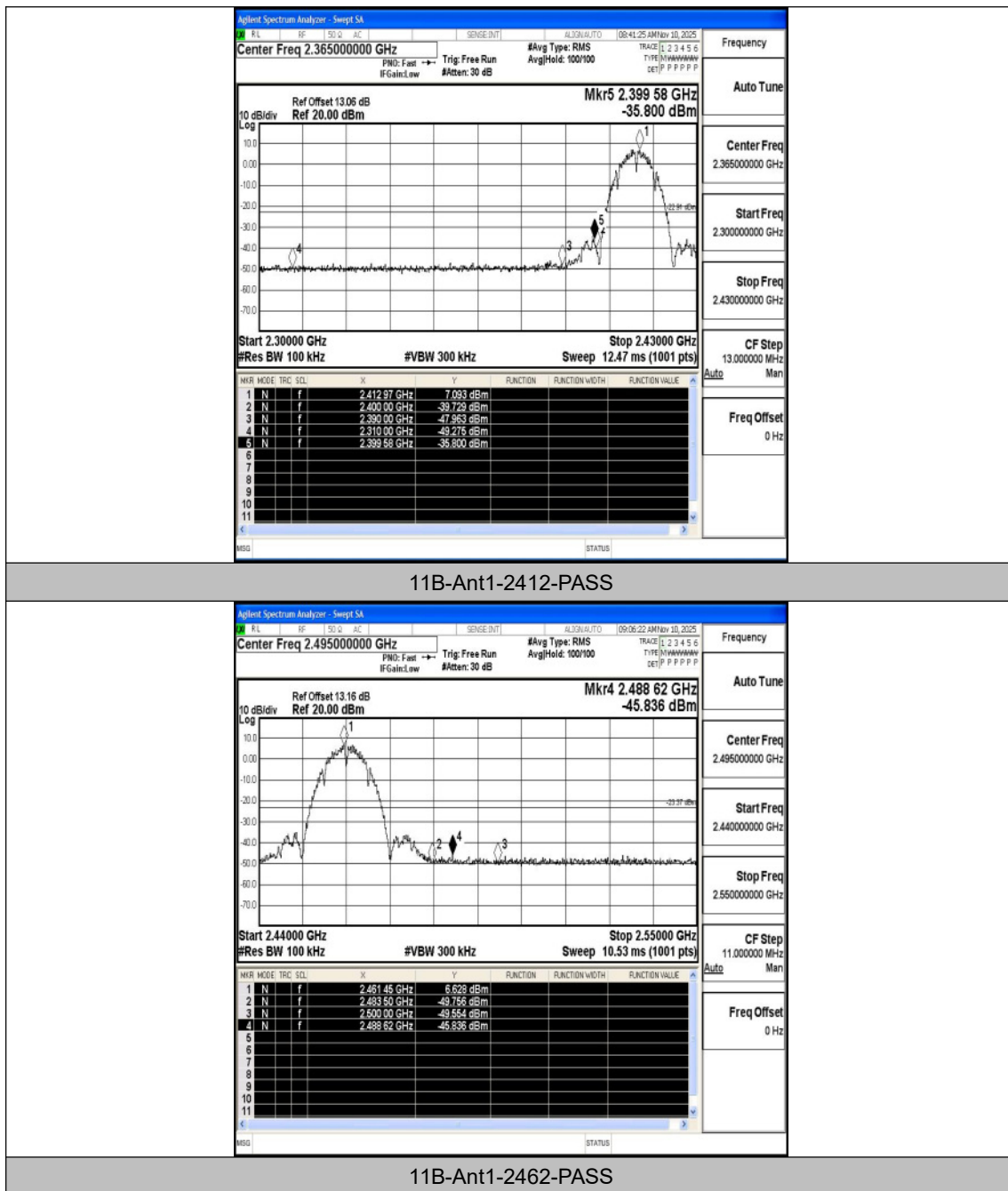


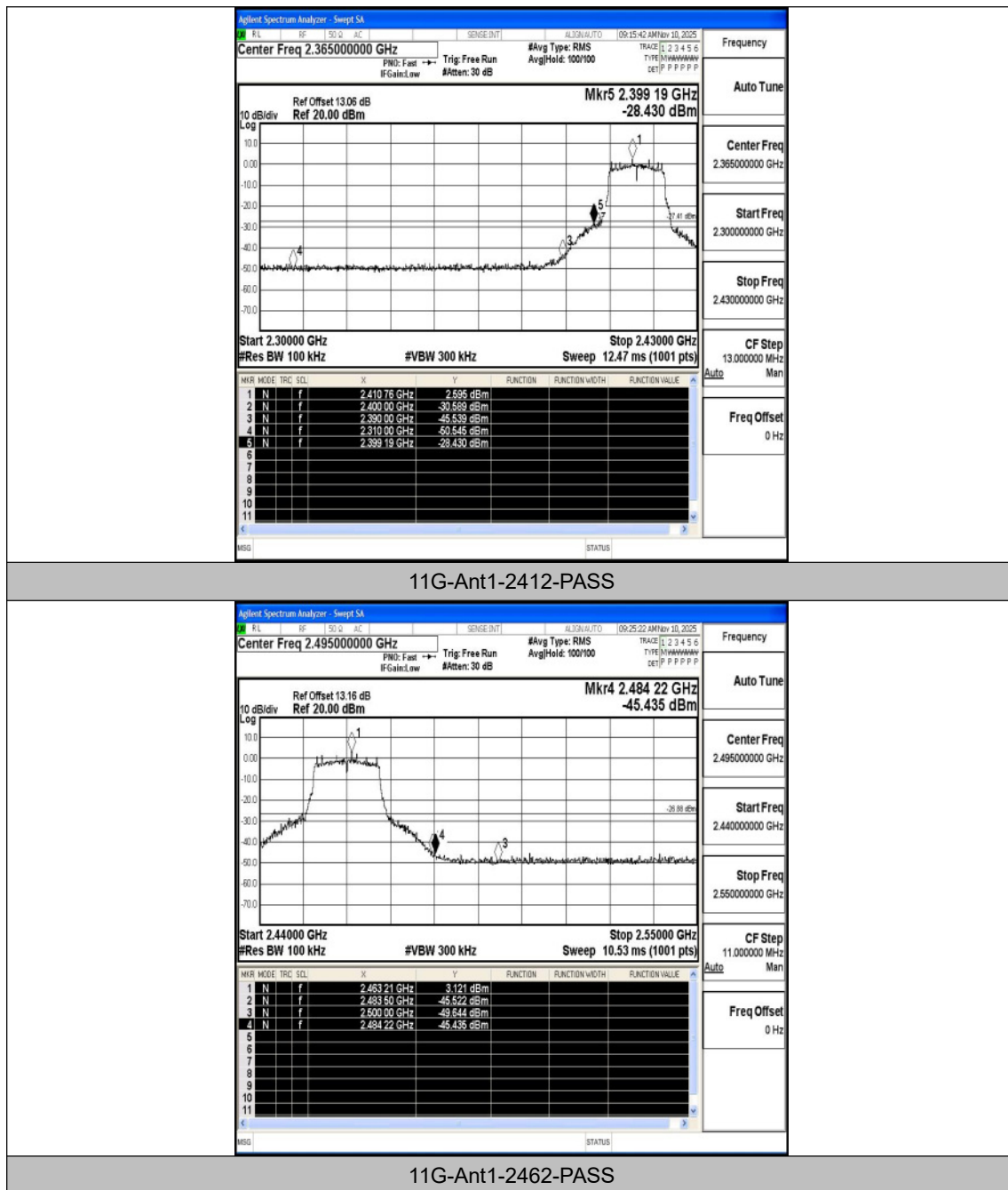
A.4 Band edge measurements

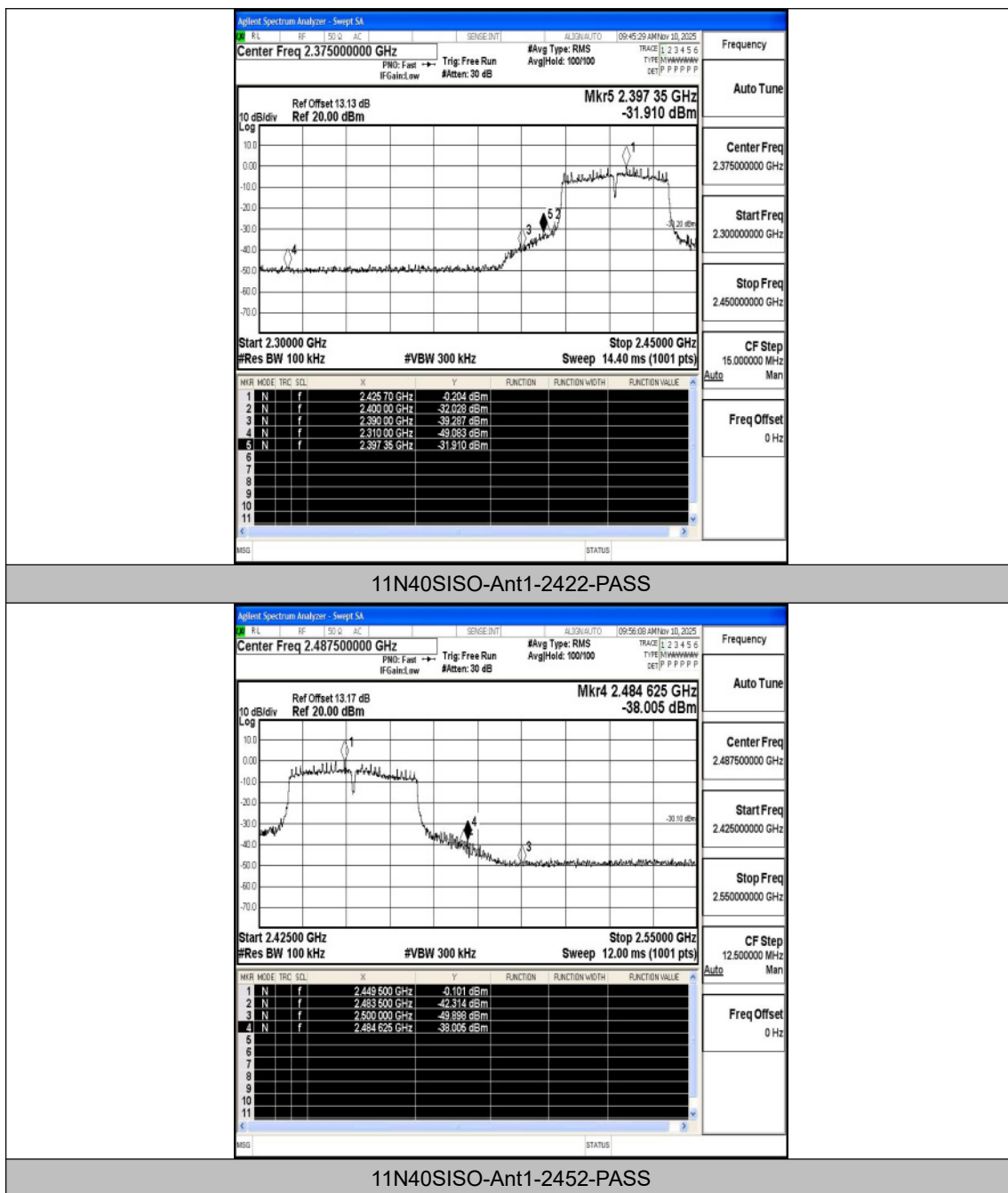
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.09	-35.8	≤ -22.91	PASS
11B	Ant1	High	2462	6.63	-45.84	≤ -23.37	PASS
11G	Ant1	Low	2412	2.60	-28.43	≤ -27.41	PASS
11G	Ant1	High	2462	3.12	-45.44	≤ -26.88	PASS
11N20SISO	Ant1	Low	2412	3.53	-26.99	≤ -26.47	PASS
11N20SISO	Ant1	High	2462	2.36	-44.15	≤ -27.64	PASS
11N40SISO	Ant1	Low	2422	-0.20	-31.91	≤ -30.2	PASS
11N40SISO	Ant1	High	2452	-0.10	-38.01	≤ -30.1	PASS

Test Graphs







A.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	6.02	6.02	---	PASS
11B	Ant1	2412	30~1000	6.02	-56.53	≤-23.98	PASS
11B	Ant1	2412	1000~26500	6.02	-42.79	≤-23.98	PASS
11B	Ant1	2437	0~Reference	5.61	5.61	---	PASS
11B	Ant1	2437	30~1000	5.61	-56.32	≤-24.39	PASS
11B	Ant1	2437	1000~26500	5.61	-44.22	≤-24.39	PASS
11B	Ant1	2462	0~Reference	5.47	5.47	---	PASS
11B	Ant1	2462	30~1000	5.47	-57.2	≤-24.53	PASS
11B	Ant1	2462	1000~26500	5.47	-43.91	≤-24.53	PASS
11G	Ant1	2412	0~Reference	0.77	0.77	---	PASS
11G	Ant1	2412	30~1000	0.77	-39.4	≤-29.23	PASS
11G	Ant1	2412	1000~26500	0.77	-44.52	≤-29.23	PASS
11G	Ant1	2437	0~Reference	2.71	2.71	---	PASS
11G	Ant1	2437	30~1000	2.71	-56.58	≤-27.29	PASS
11G	Ant1	2437	1000~26500	2.71	-44.61	≤-27.29	PASS
11G	Ant1	2462	0~Reference	1.89	1.89	---	PASS
11G	Ant1	2462	30~1000	1.89	-50.59	≤-28.11	PASS
11G	Ant1	2462	1000~26500	1.89	-44.25	≤-28.11	PASS
11N20SISO	Ant1	2412	0~Reference	-1.02	-1.02	---	PASS
11N20SISO	Ant1	2412	30~1000	-1.02	-57.38	≤-31.02	PASS
11N20SISO	Ant1	2412	1000~26500	-1.02	-44.34	≤-31.02	PASS
11N20SISO	Ant1	2437	0~Reference	0.48	0.48	---	PASS
11N20SISO	Ant1	2437	30~1000	0.48	-56.58	≤-29.52	PASS
11N20SISO	Ant1	2437	1000~26500	0.48	-43.45	≤-29.52	PASS
11N20SISO	Ant1	2462	0~Reference	-0.84	-0.84	---	PASS
11N20SISO	Ant1	2462	30~1000	-0.84	-56.63	≤-30.84	PASS
11N20SISO	Ant1	2462	1000~26500	-0.84	-43.46	≤-30.84	PASS
11N40SISO	Ant1	2422	0~Reference	-0.93	-0.93	---	PASS
11N40SISO	Ant1	2422	30~1000	-0.93	-56.59	≤-30.93	PASS
11N40SISO	Ant1	2422	1000~26500	-0.93	-44.14	≤-30.93	PASS
11N40SISO	Ant1	2437	0~Reference	-0.78	-0.78	---	PASS
11N40SISO	Ant1	2437	30~1000	-0.78	-57.23	≤-30.78	PASS
11N40SISO	Ant1	2437	1000~26500	-0.78	-43.85	≤-30.78	PASS
11N40SISO	Ant1	2452	0~Reference	-1.90	-1.90	---	PASS
11N40SISO	Ant1	2452	30~1000	-1.90	-57.03	≤-31.9	PASS

11N40SISO	Ant1	2452	1000~26500	-1.90	-44.07	≤-31.9	PASS
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Test Graphs

