

Appendix Test Data_ANT2

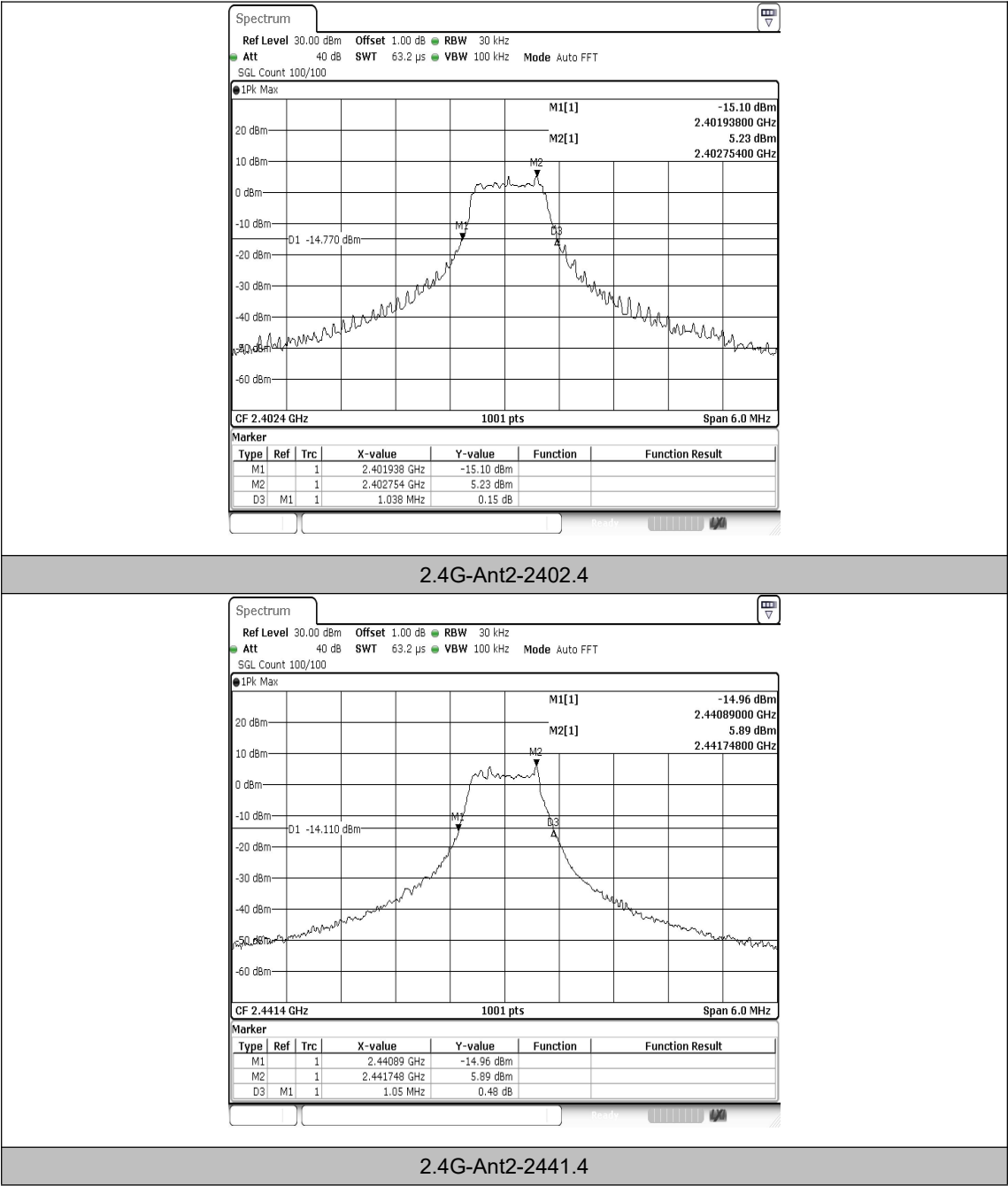
Report No.:	1812C50320412502	Test Sample No.:	1-2-2
Start Test Date:	2025-6-27	Finish Test Date:	2025-9-2
Test Engineer:	<i>dylan. Ma</i>	Auditor:	<i>Justin Feng</i>
Temperature:	22.9℃	Relative Humidity:	60%
Pressure:	101kPa		

Appendix A: 20dB Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant2	2402.4	1.04	2401.94	2402.98	---	---
2.4G	Ant2	2441.4	1.05	2440.89	2441.94	---	---
2.4G	Ant2	2479.4	1.04	2478.90	2479.93	---	---

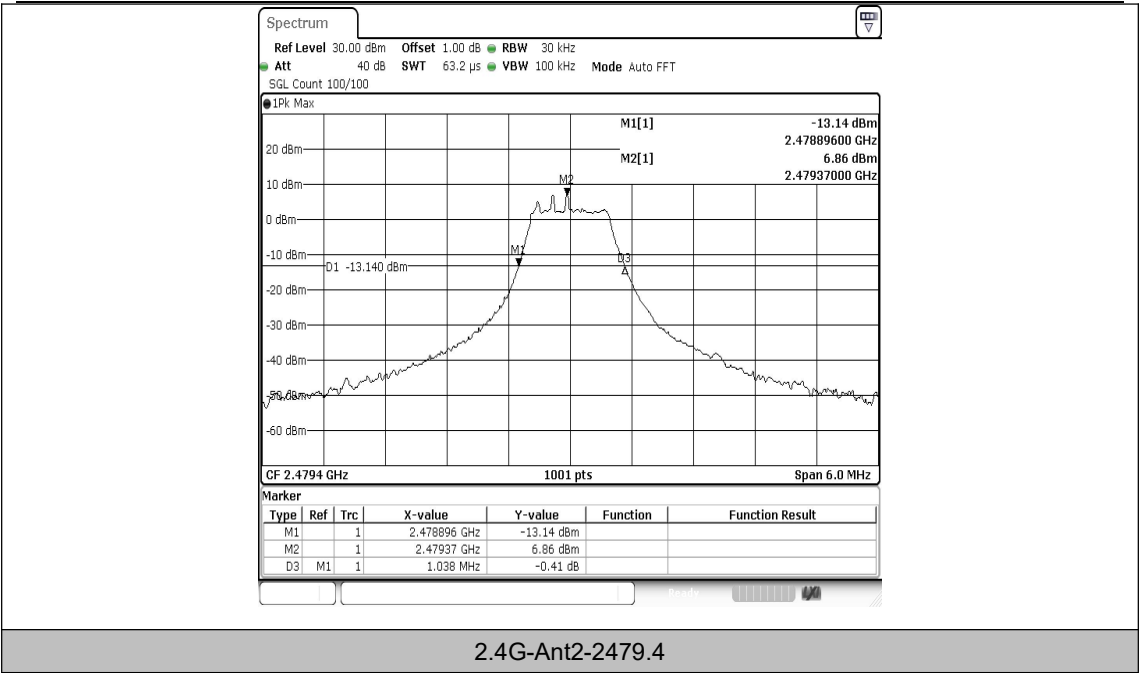
Test Graphs



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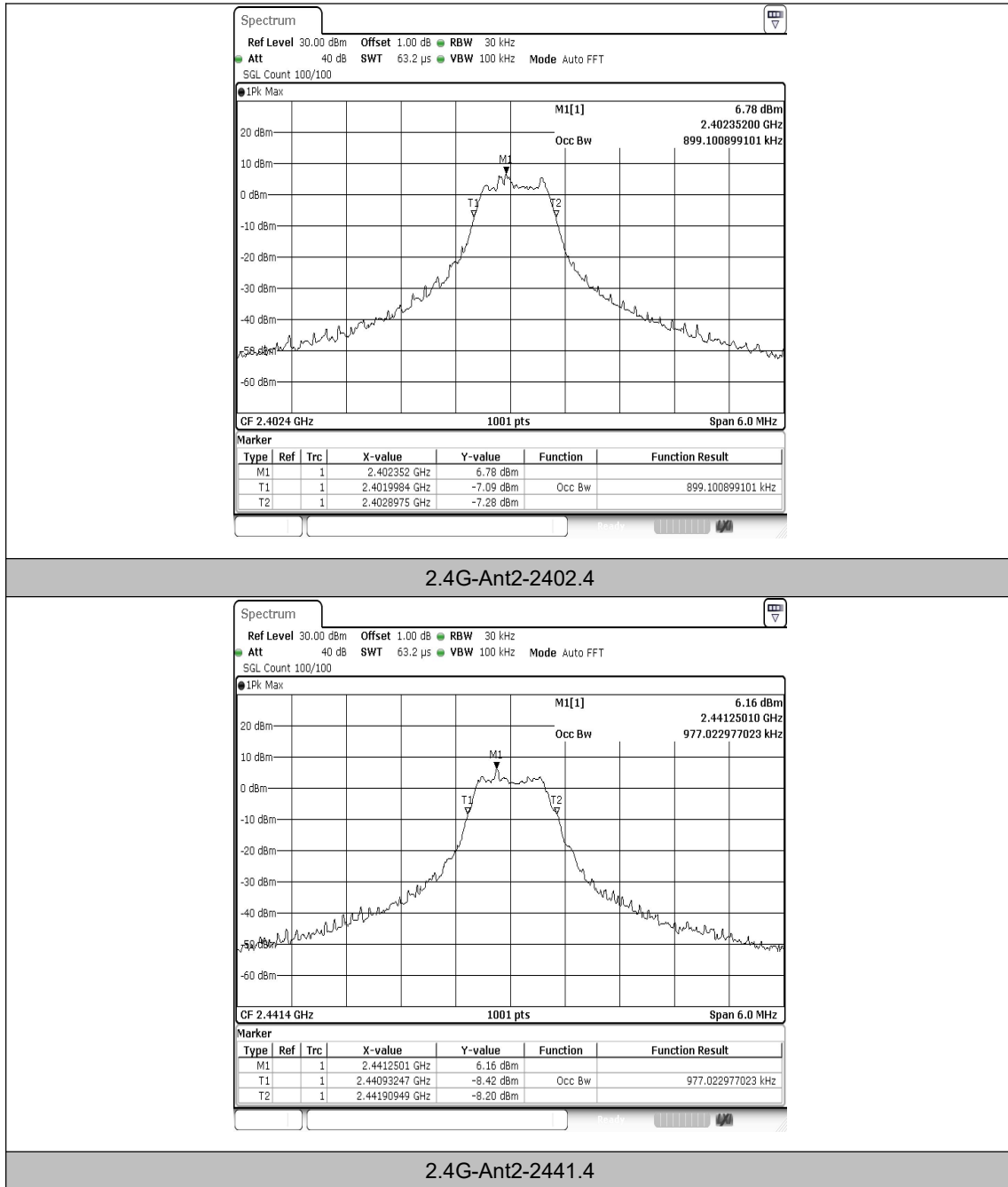
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Appendix B: 99% Occupied Bandwidth**Test Result**

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G	Ant2	2402.4	0.89910	2401.9984	2402.8975	---	---
2.4G	Ant2	2441.4	0.97702	2440.9325	2441.9095	---	---
2.4G	Ant2	2479.4	0.94106	2478.9445	2479.8855	---	---

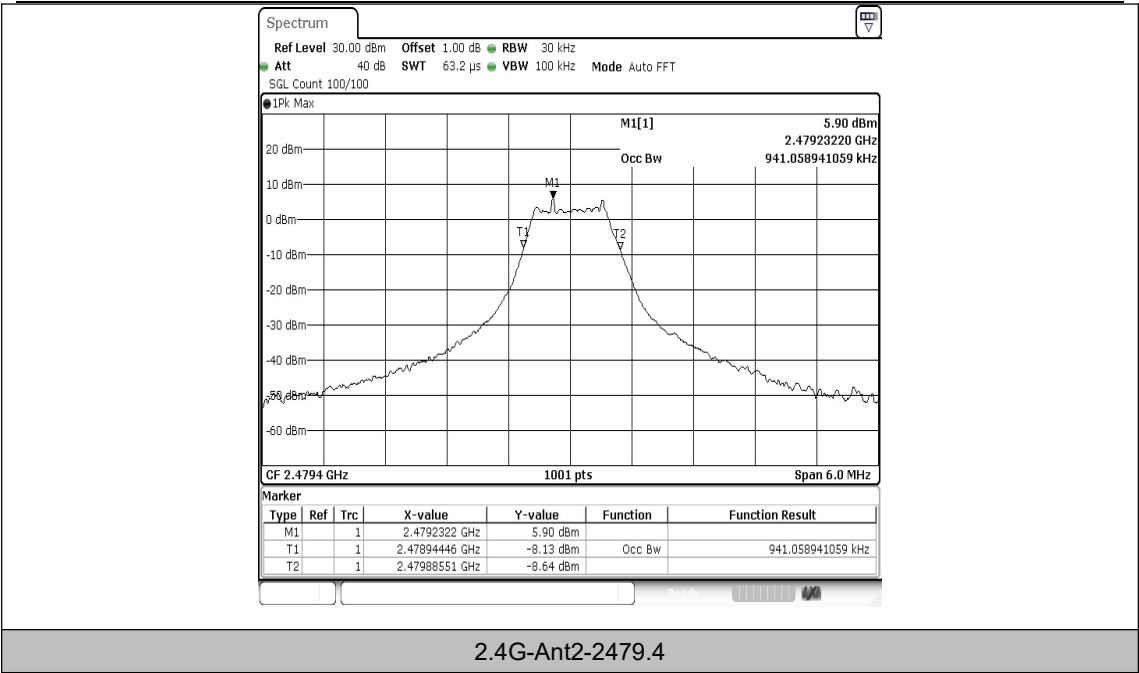
Test Graphs



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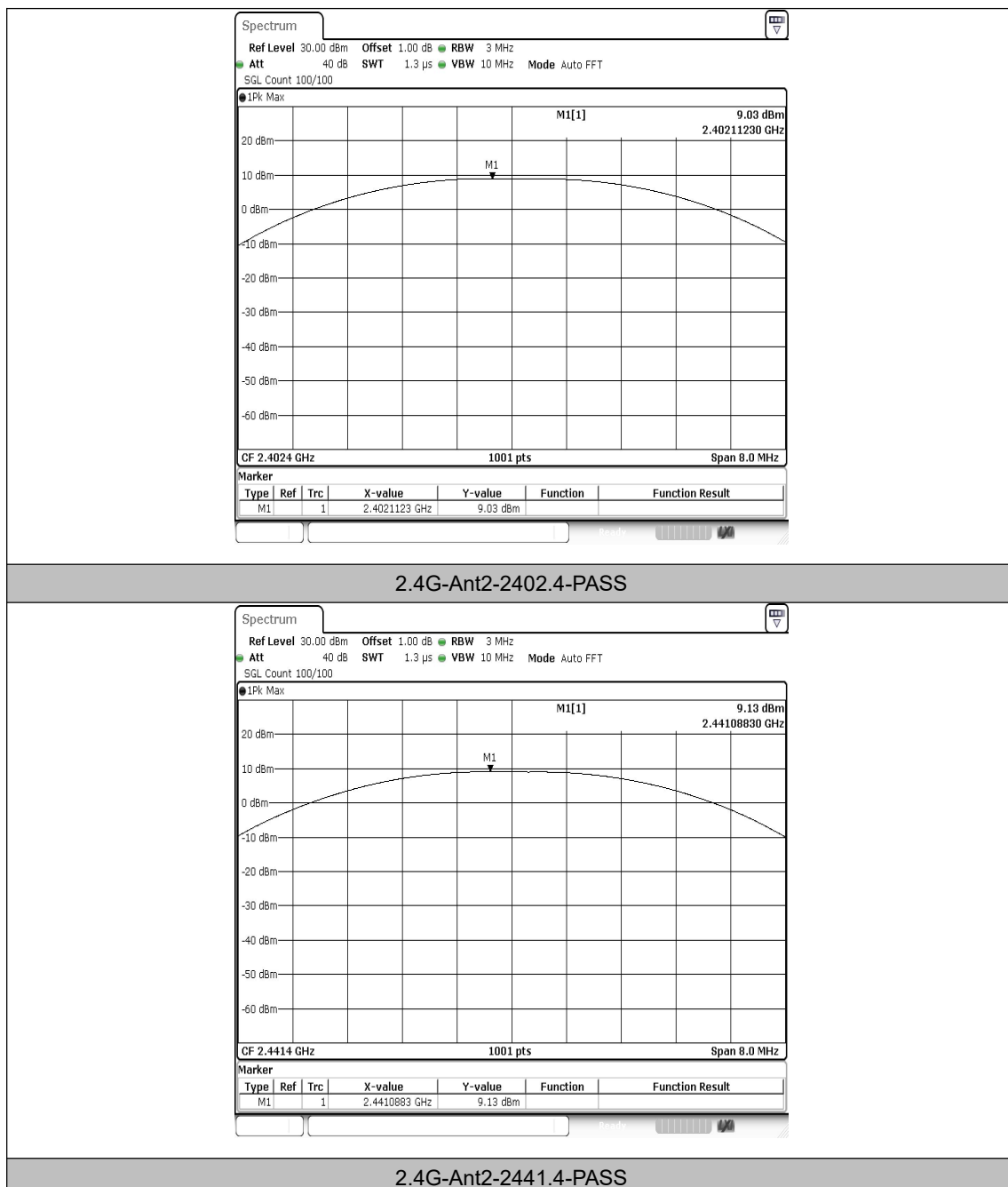
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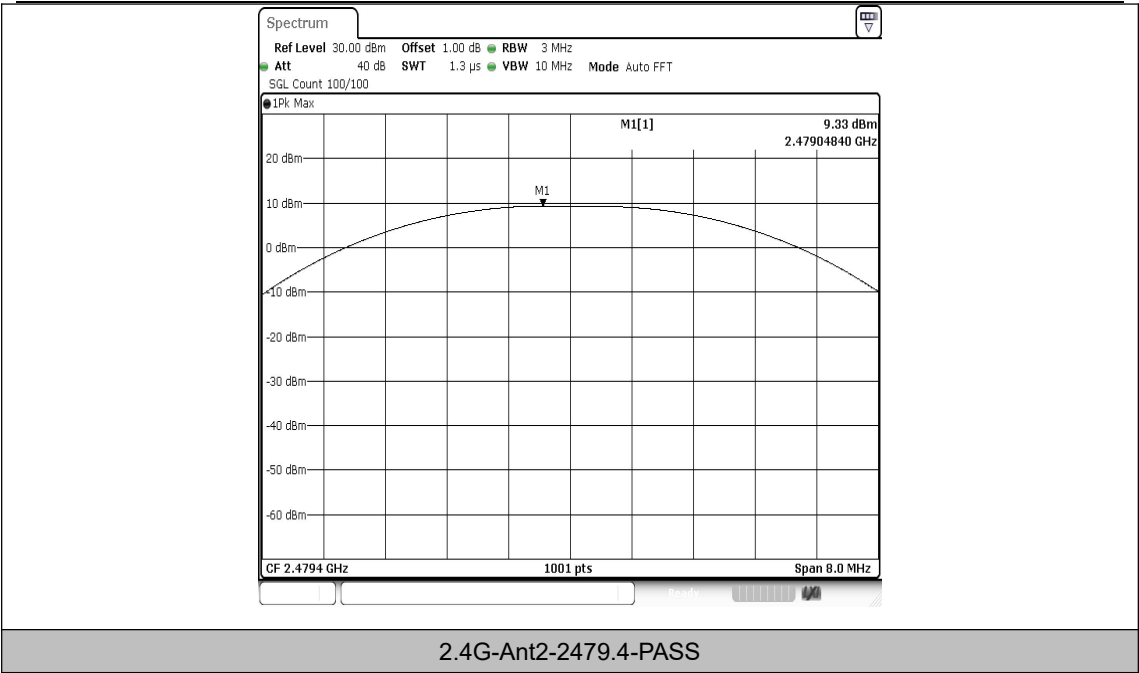
Appendix C: Maximum Conducted Output Power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G	Ant2	2402.4	9.03	≤20.97	PASS
2.4G	Ant2	2441.4	9.13	≤20.97	PASS
2.4G	Ant2	2479.4	9.33	≤20.97	PASS

Test Graphs





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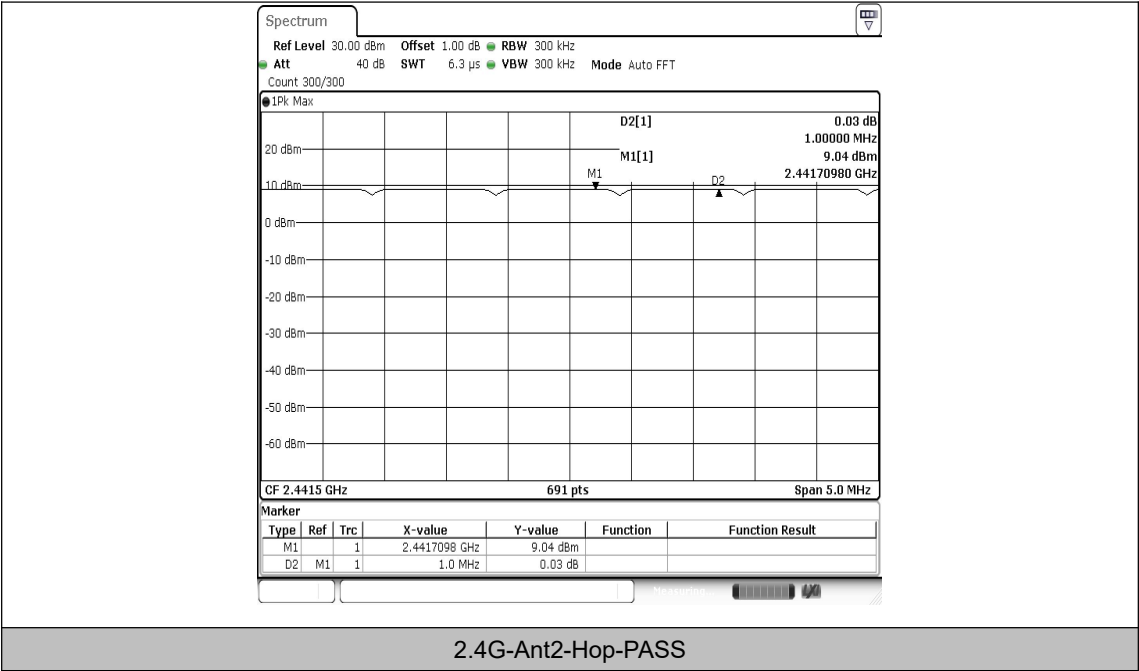
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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit[MHz]	Verdict
2.4G	Ant2	Hop	1.000	≥0.025	PASS

Test Graphs

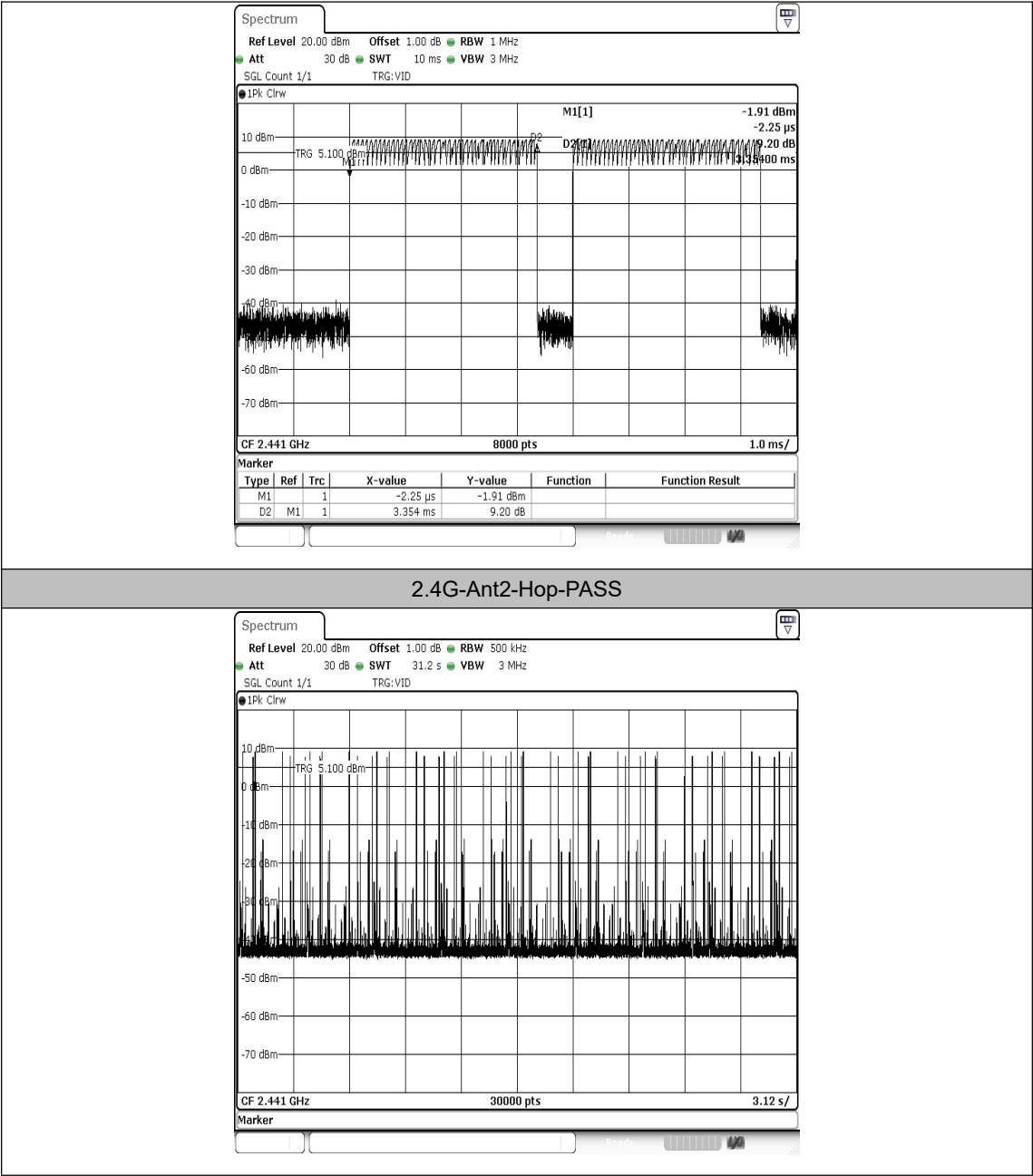


Appendix E: Dwell Time

Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	Total Hops [Num]	Result [s]	Limit [s]	Verdict
2.4G	Ant2	Hop	3.354	52	0.174	≤0.4	PASS

Test Graphs

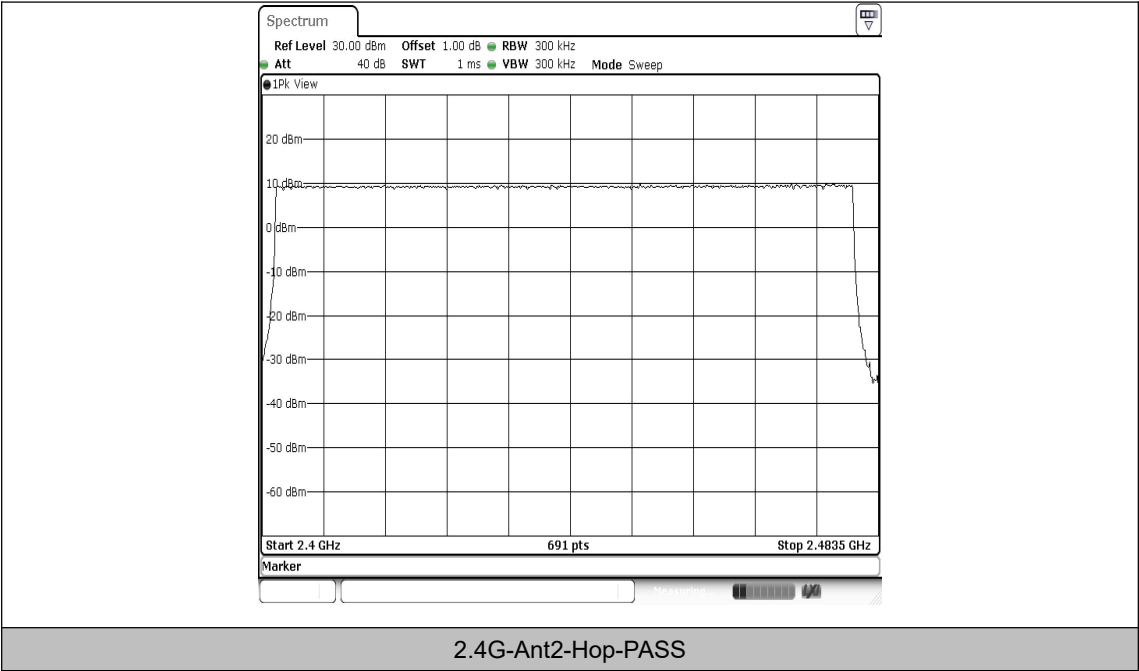


Appendix F: Number of Hopping Channel

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
2.4G	Ant2	Hop	78	≥15	PASS

Test Graphs



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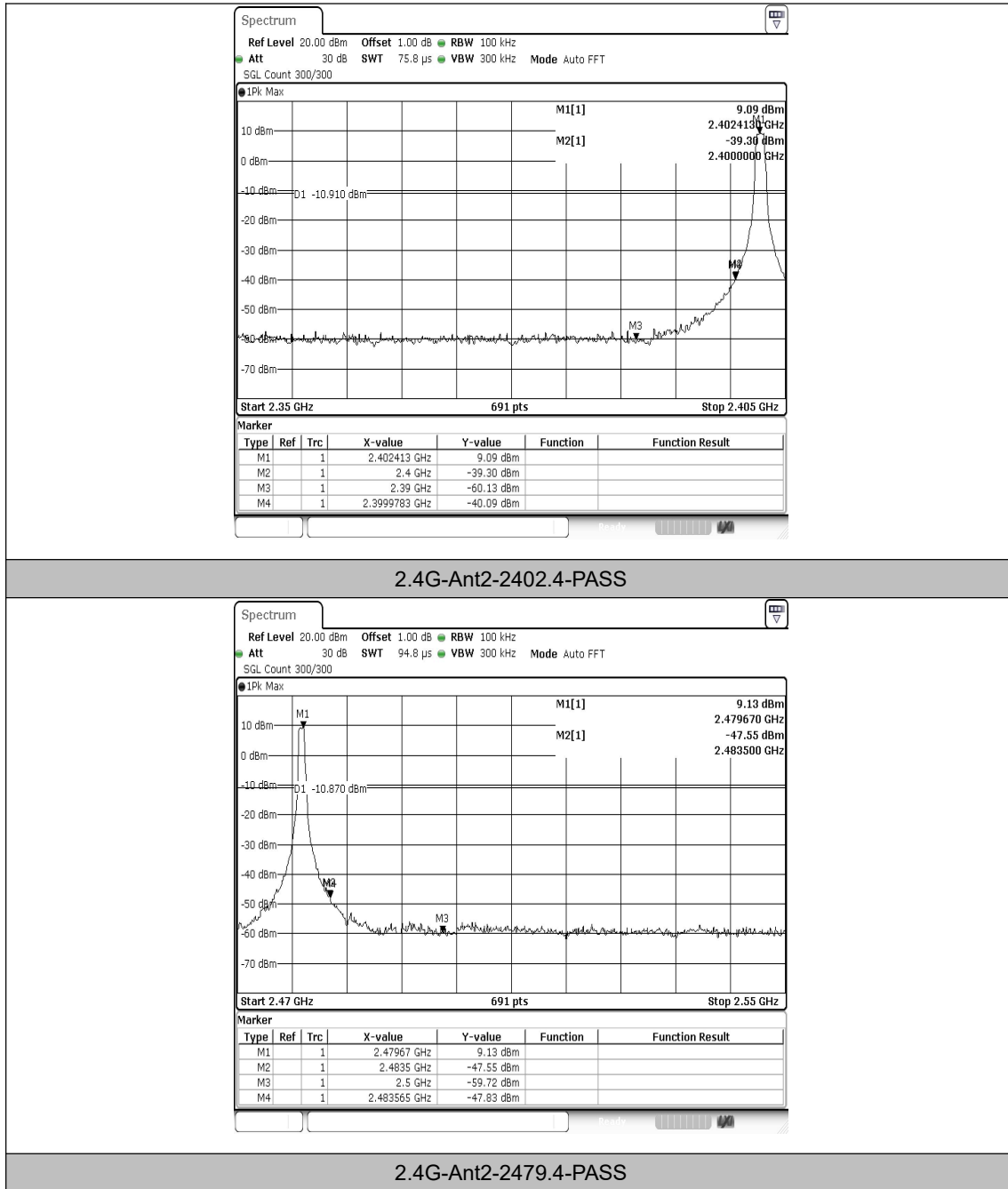
Appendix G: Conducted Band edge

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant2	Low	2402.4	9.09	-40.09	≤-10.91	PASS
2.4G	Ant2	High	2479.4	9.13	-47.83	≤-10.87	PASS
2.4G	Ant2	Low	Hop_2402.4	8.91	-42.81	≤-11.09	PASS
2.4G	Ant2	High	Hop_2479.4	8.89	-49.1	≤-11.11	PASS

Remark:1. Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'offset' of the Spectrum Analyzer during the test.

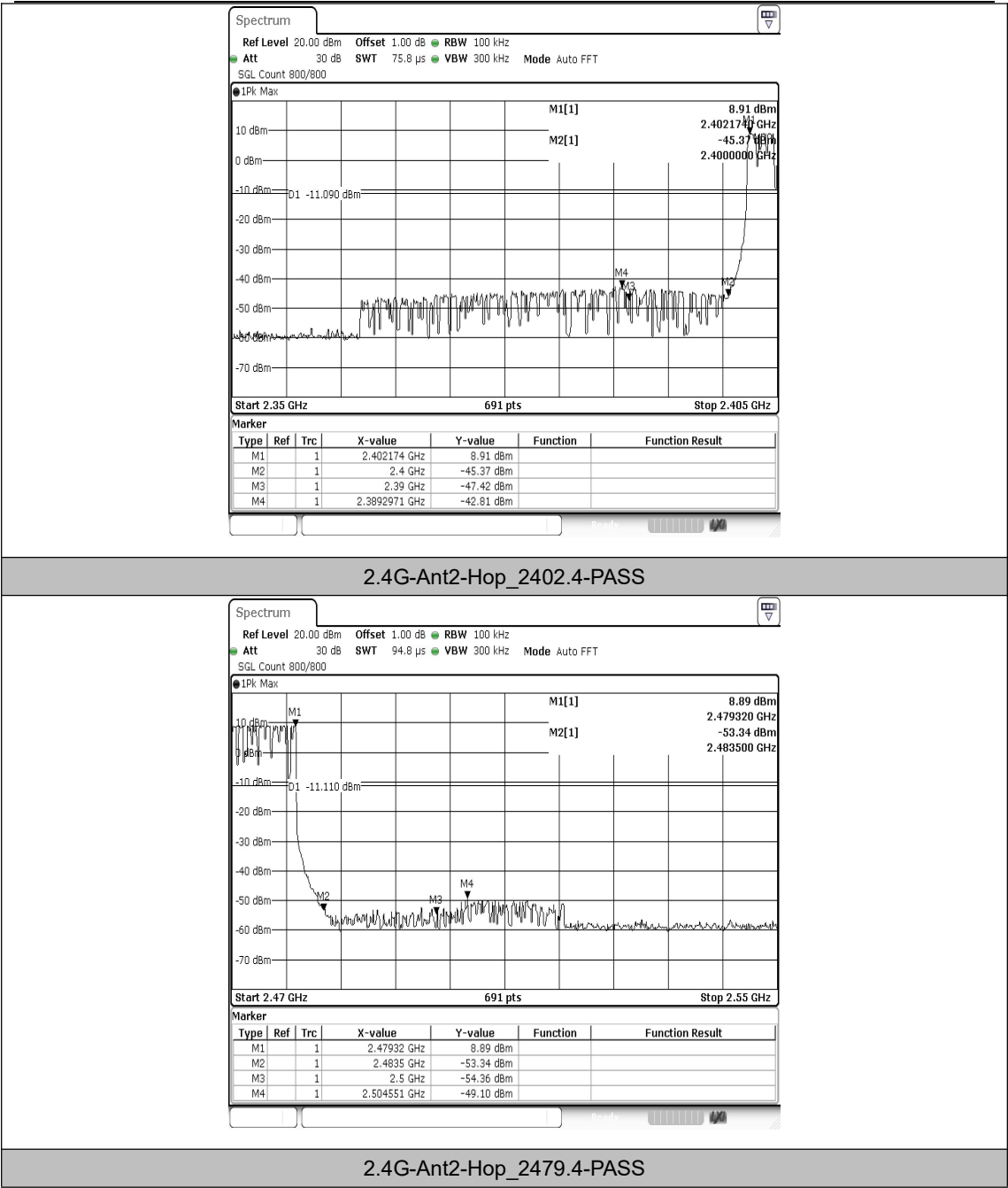
Test Graphs



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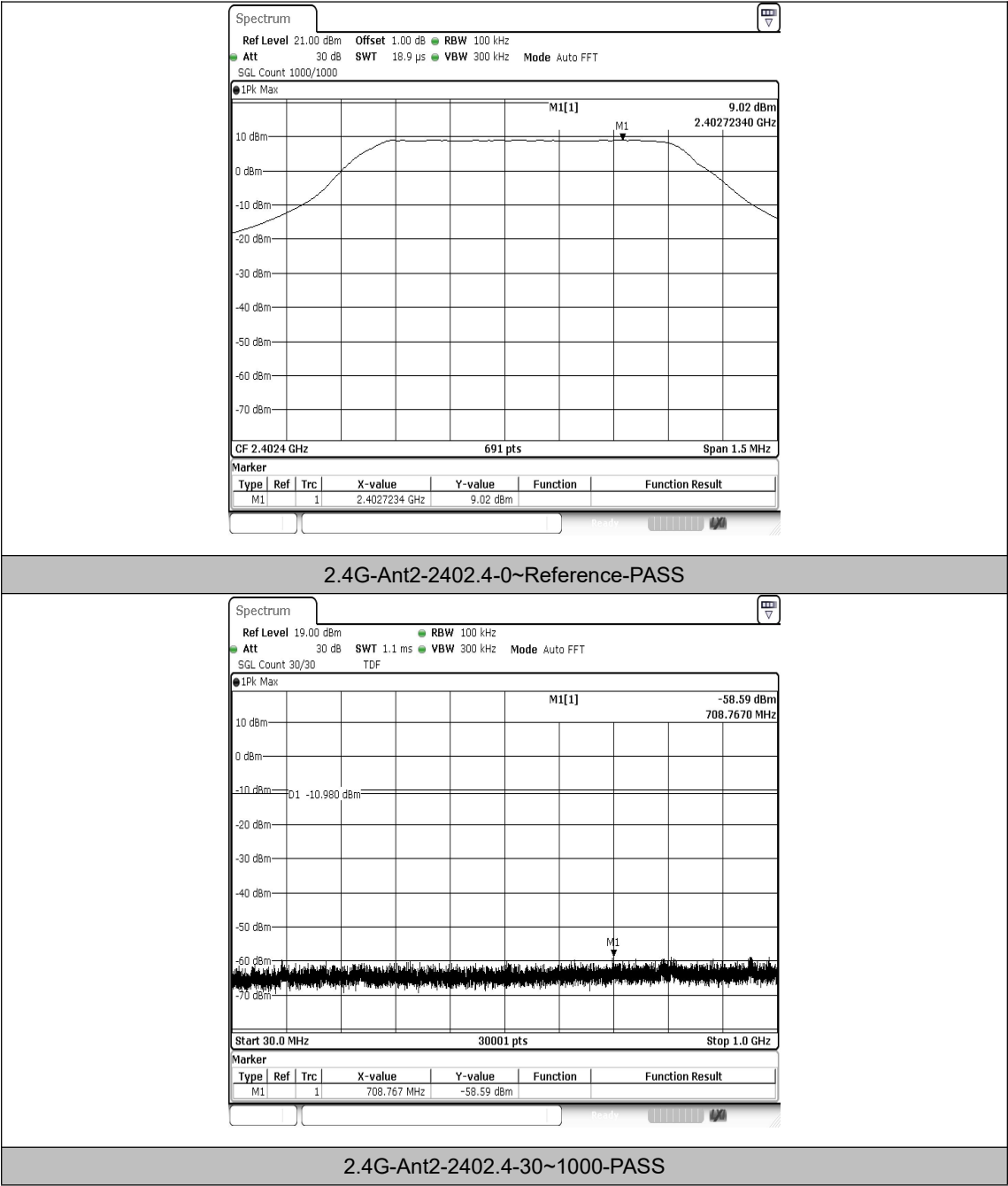
Appendix H: Conducted Spurious Emission

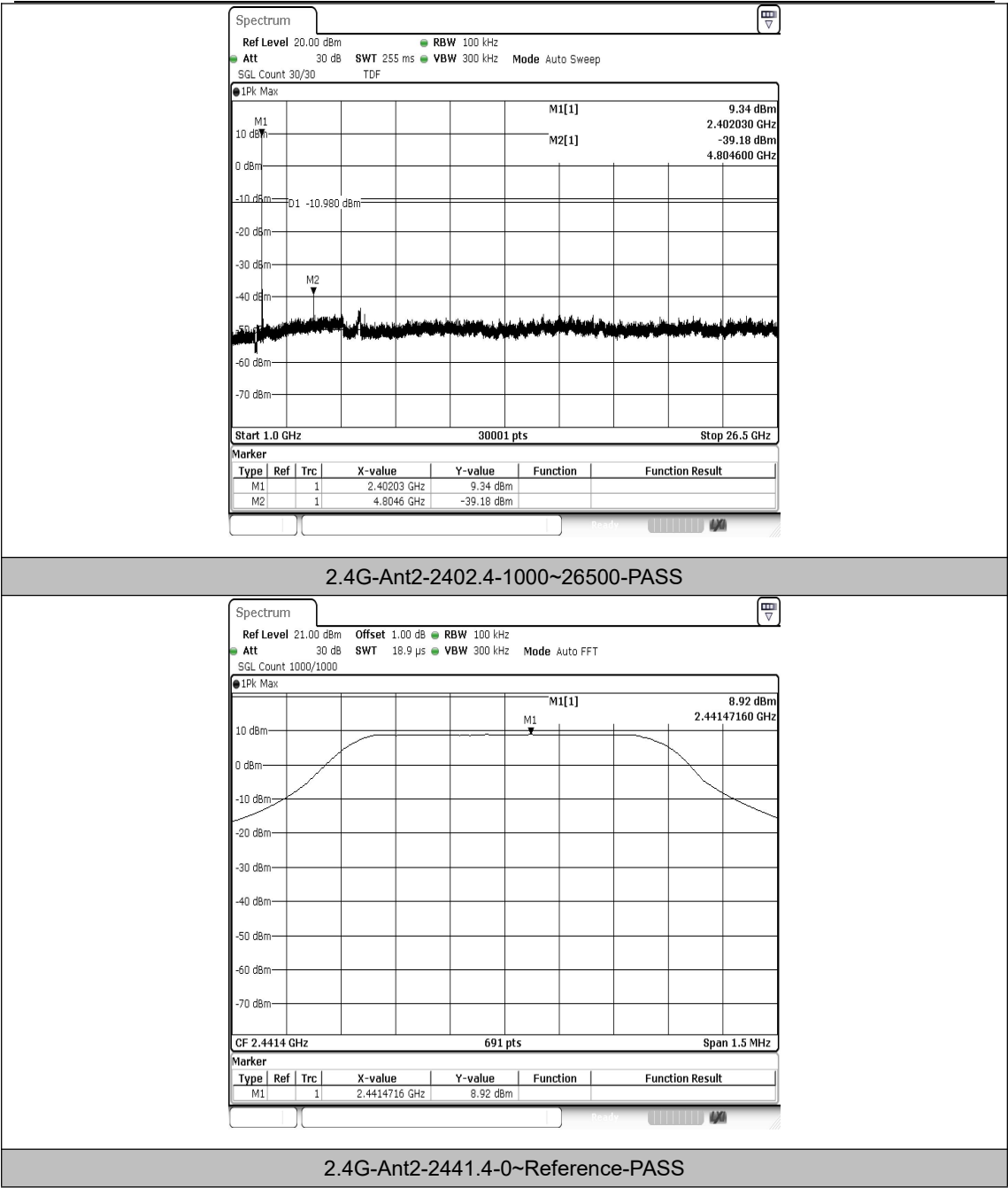
Test Result

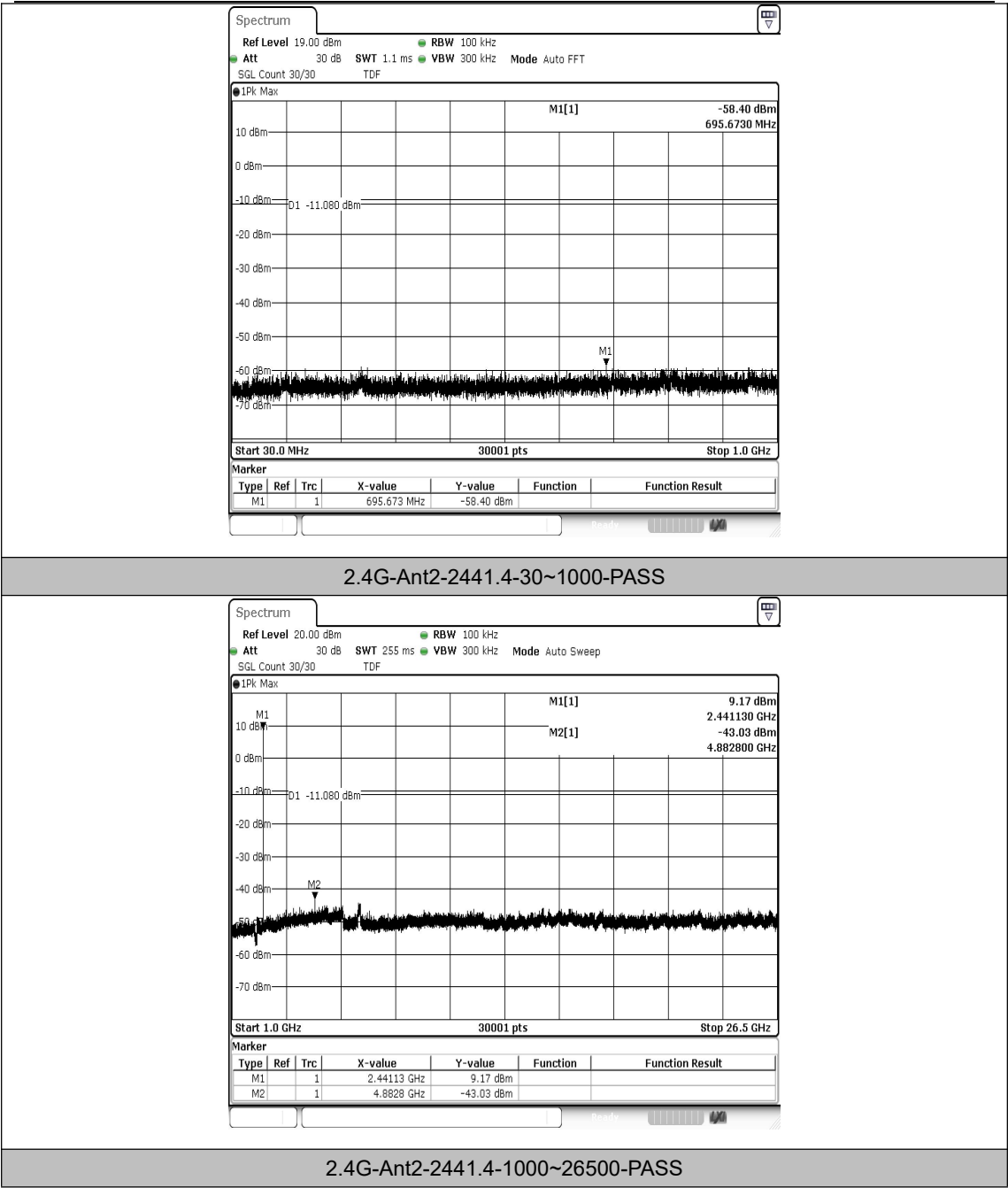
Test Mode	Antenna	Frequency[MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G	Ant2	2402.4	0~Reference	9.02	9.02	---	PASS
2.4G	Ant2	2402.4	30~1000	9.02	-58.59	≤-10.98	PASS
2.4G	Ant2	2402.4	1000~26500	9.02	-39.18	≤-10.98	PASS
2.4G	Ant2	2441.4	0~Reference	8.92	8.92	---	PASS
2.4G	Ant2	2441.4	30~1000	8.92	-58.4	≤-11.08	PASS
2.4G	Ant2	2441.4	1000~26500	8.92	-43.03	≤-11.08	PASS
2.4G	Ant2	2479.4	0~Reference	9.10	9.10	---	PASS
2.4G	Ant2	2479.4	30~1000	9.10	-57.36	≤-10.9	PASS
2.4G	Ant2	2479.4	1000~26500	9.10	-44.58	≤-10.9	PASS

Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'TDF' of the Spectrum Analyzer during the test.

Test Graphs



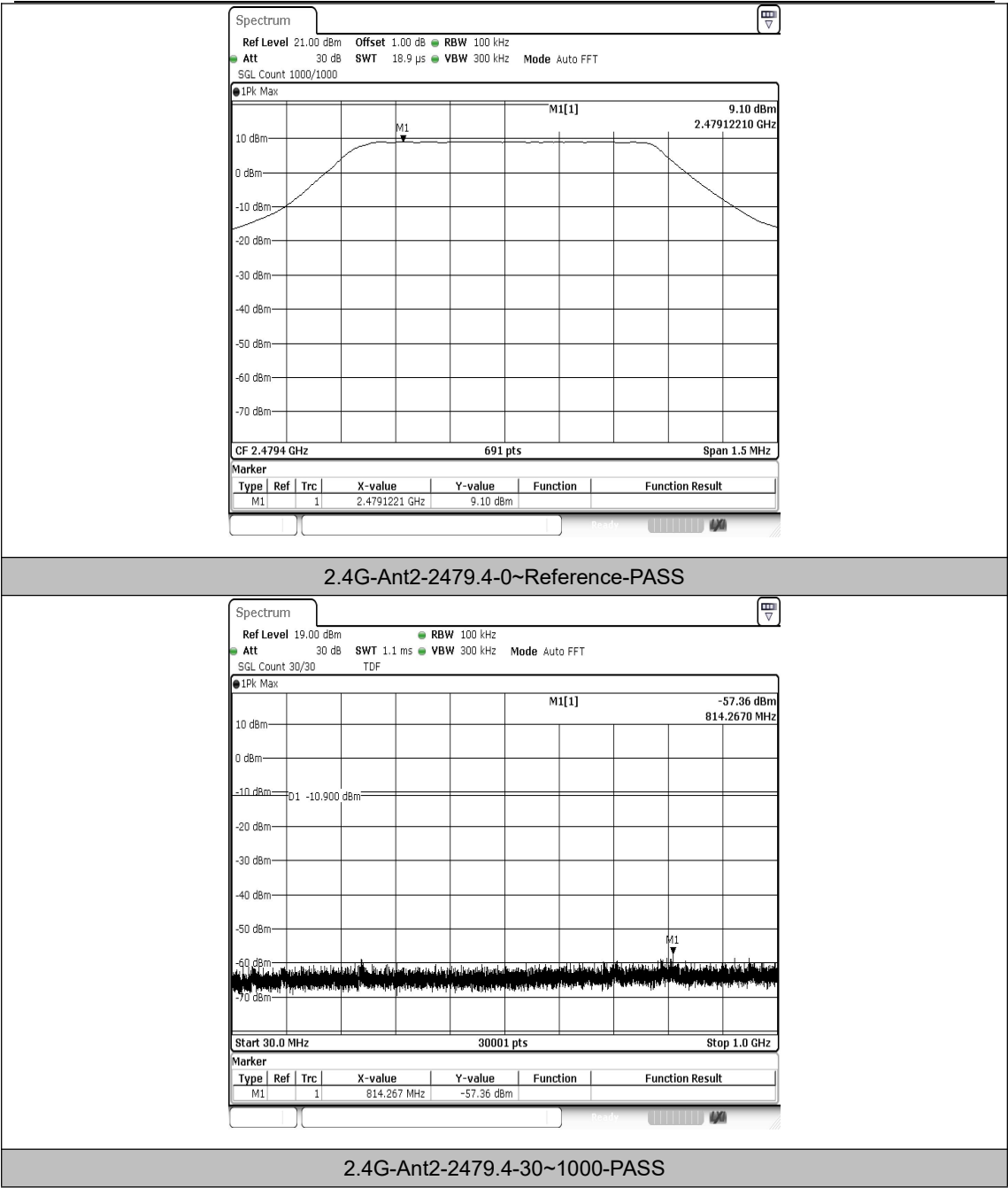


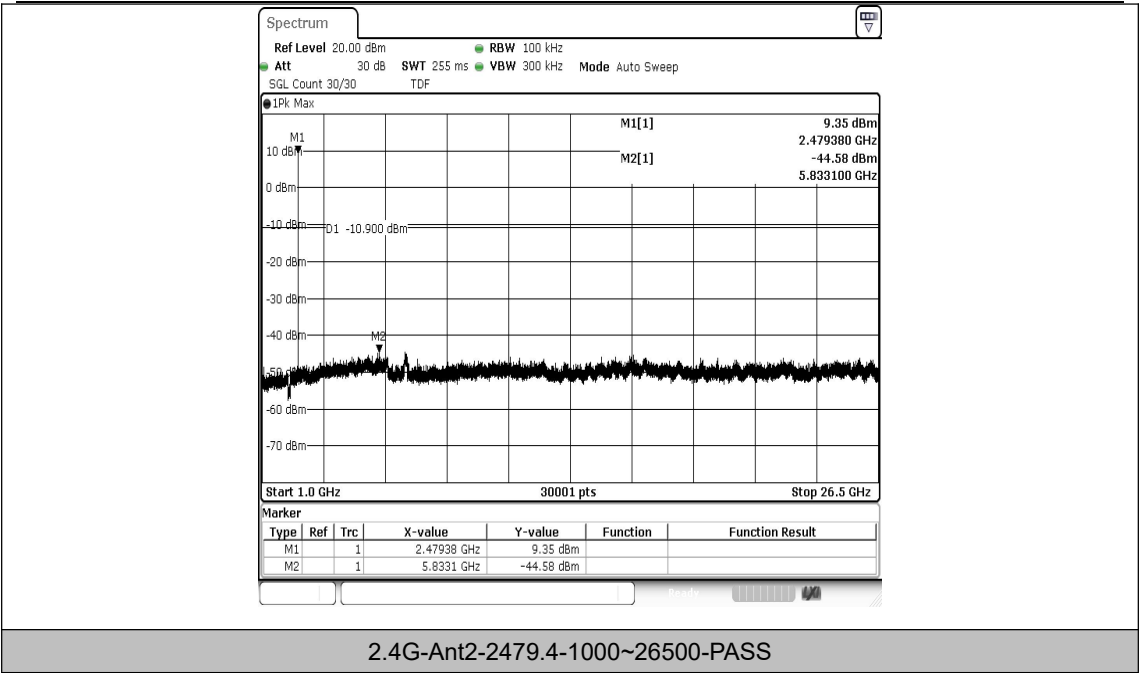


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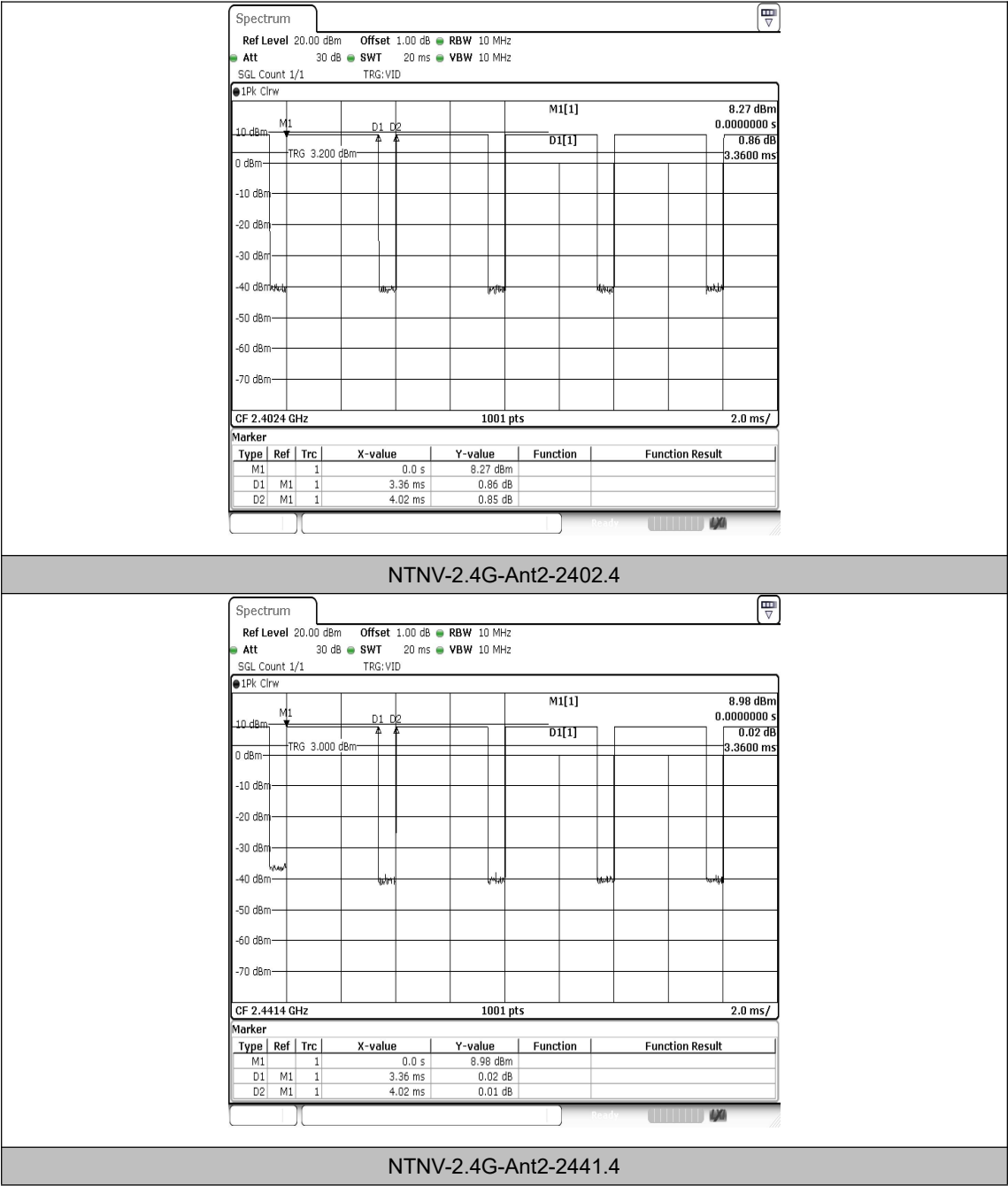
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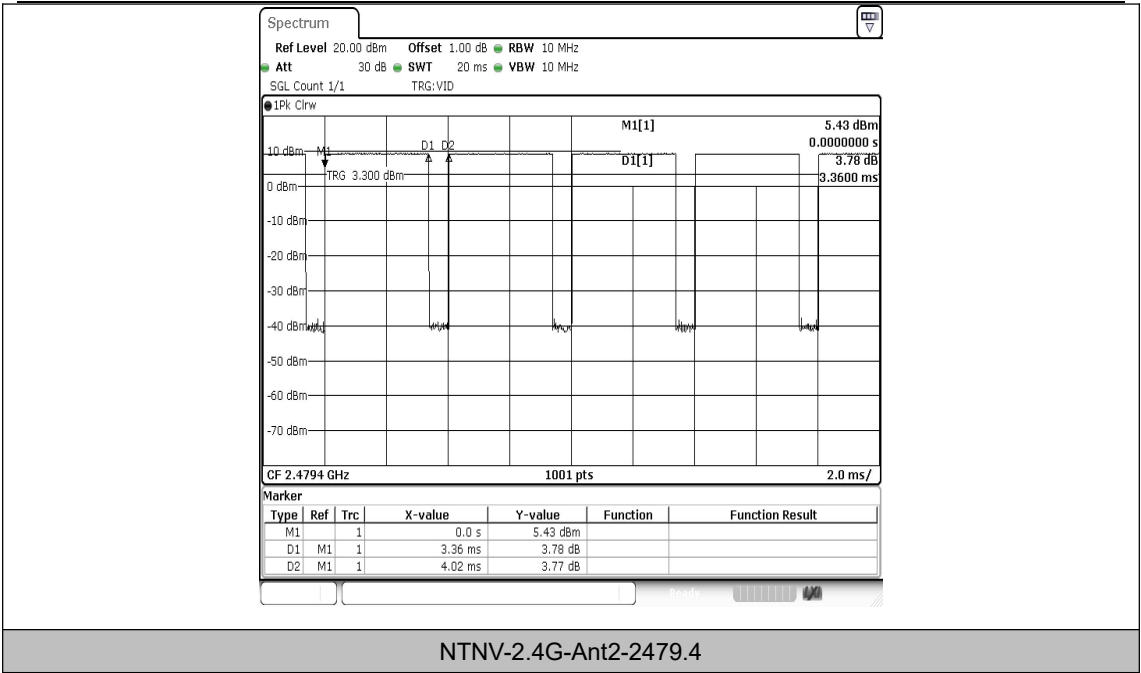
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
2.4G	Ant2	2402.4	3.36	4.02	83.58	0.78
2.4G	Ant2	2441.4	3.36	4.02	83.58	0.78
2.4G	Ant2	2479.4	3.36	4.02	83.58	0.78

Test Graphs





---End---