

Appendix Test Data

Report No:	1819C40042912502	Test Sample NO:	1-2-2
Start Test Date:	2024.9.14	Finish Test Date:	2024.9.14
Test Engineer:	<i>Joker Huang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	23.4℃	Relative Humidity:	54%
Pressure:	101 kPa		

Appendix A1: Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
802.11a	Ant1	5180	19.52	5170.32	5189.84	---	---
802.11a	Ant1	5200	18.84	5190.52	5209.36	---	---
802.11a	Ant1	5240	19.60	5230.28	5249.88	---	---
802.11a	Ant1	5260	19.04	5250.80	5269.84	---	---
802.11a	Ant1	5280	19.04	5270.68	5289.72	---	---
802.11a	Ant1	5320	19.28	5310.44	5329.72	---	---
802.11a	Ant1	5500	19.00	5490.48	5509.48	---	---
802.11a	Ant1	5580	19.64	5570.32	5589.96	---	---
802.11a	Ant1	5700	19.52	5690.48	5710.00	---	---
802.11a	Ant1	5745	19.44	5735.28	5754.72	---	---
802.11a	Ant1	5785	18.80	5775.80	5794.60	---	---
802.11a	Ant1	5825	18.84	5815.72	5834.56	---	---
802.11n (HT20)	Ant1	5180	20.24	5169.96	5190.20	---	---
802.11n (HT20)	Ant1	5200	20.60	5189.84	5210.44	---	---
802.11n (HT20)	Ant1	5240	20.16	5230.04	5250.20	---	---
802.11n (HT20)	Ant1	5260	19.88	5249.80	5269.68	---	---
802.11n (HT20)	Ant1	5280	20.36	5269.68	5290.04	---	---



802.11n (HT20)	Ant1	5320	19.52	5310.20	5329.72	---	---
802.11n (HT20)	Ant1	5500	20.84	5489.44	5510.28	---	---
802.11n (HT20)	Ant1	5580	20.00	5570.24	5590.24	---	---
802.11n (HT20)	Ant1	5700	20.08	5689.88	5709.96	---	---
802.11n (HT20)	Ant1	5745	19.88	5735.00	5754.88	---	---
802.11n (HT20)	Ant1	5785	20.16	5775.16	5795.32	---	---
802.11n (HT20)	Ant1	5825	19.80	5815.24	5835.04	---	---

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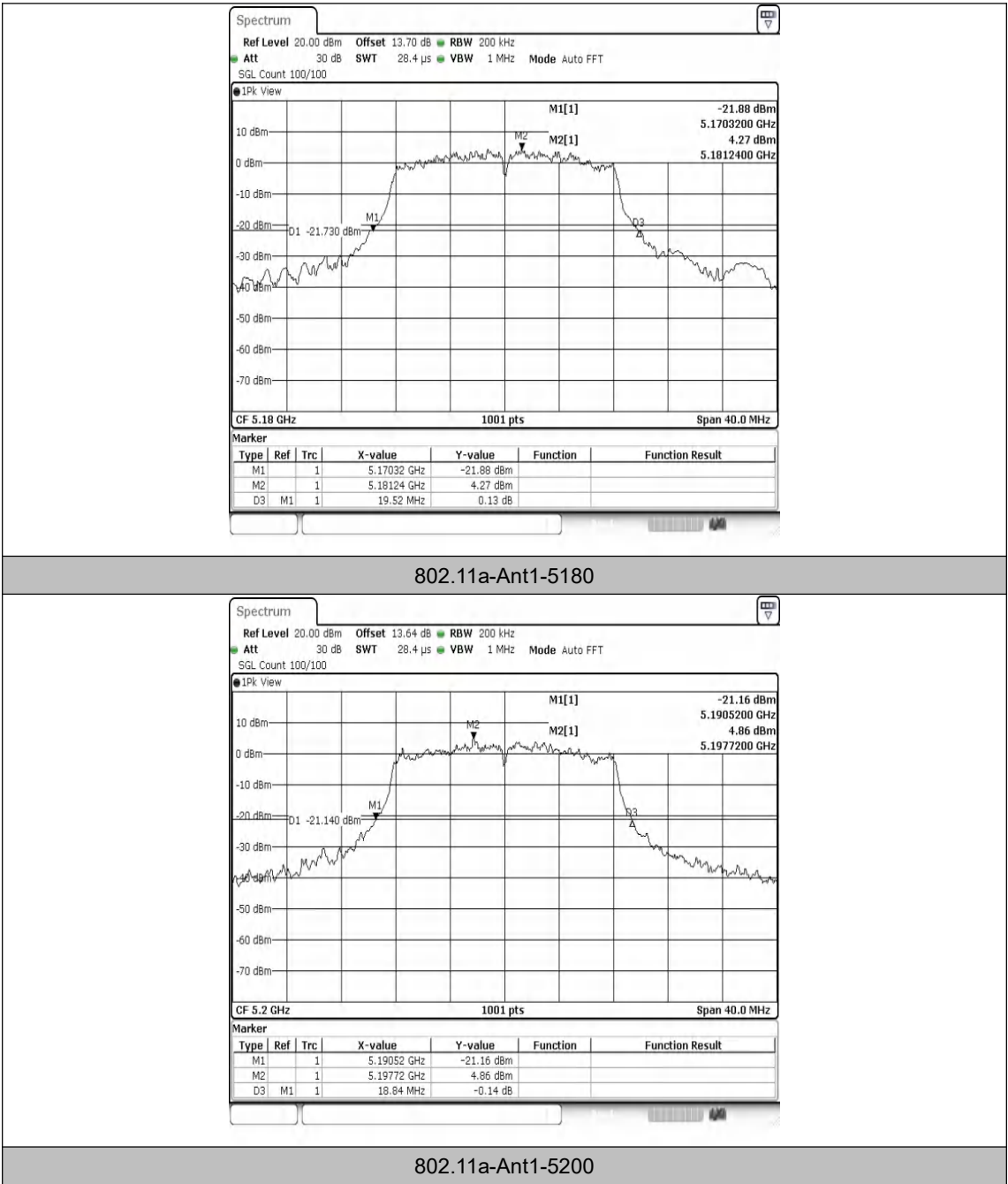
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Tel: (86) 0755-26066440 Email: service@anbotek.com

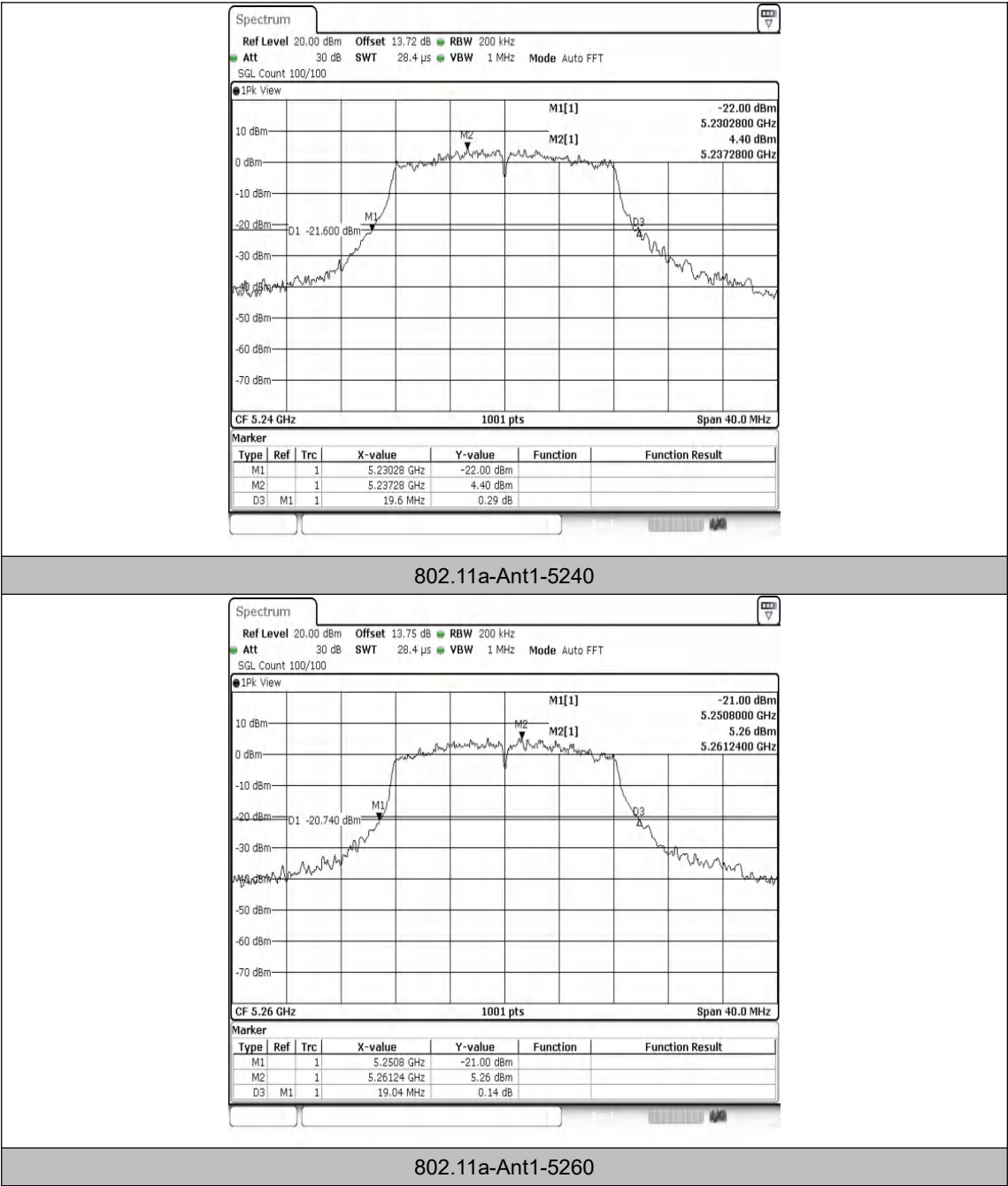


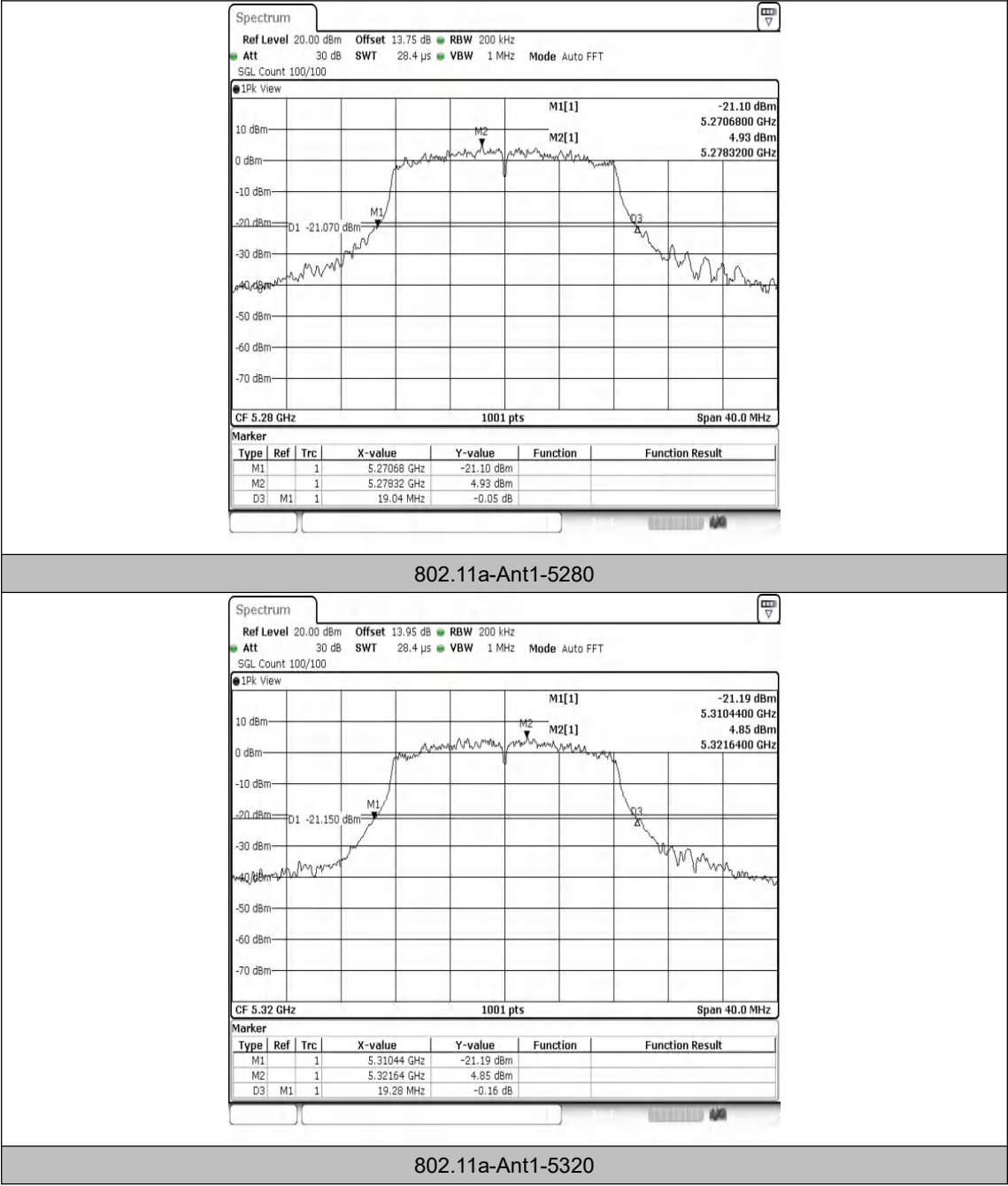
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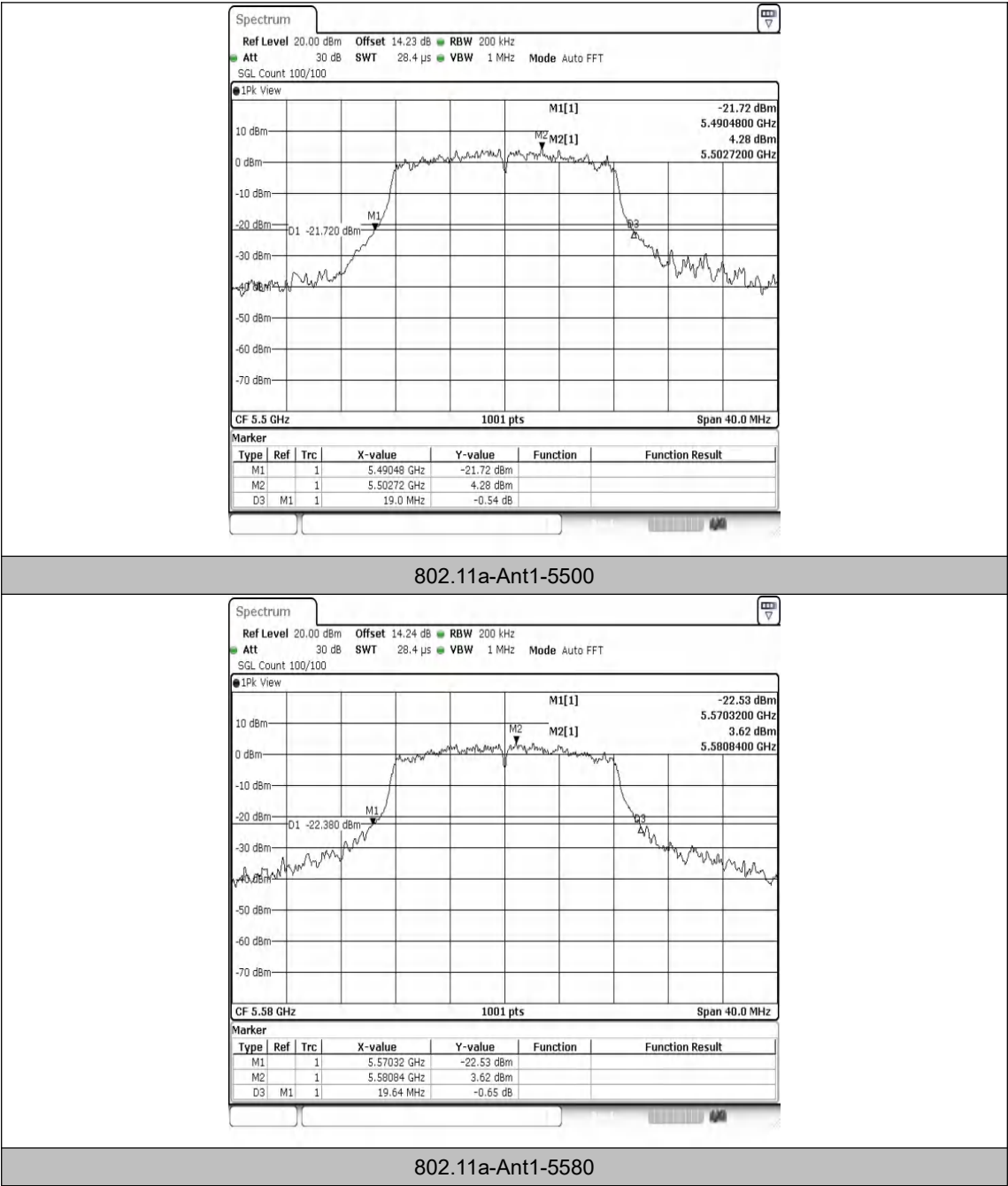


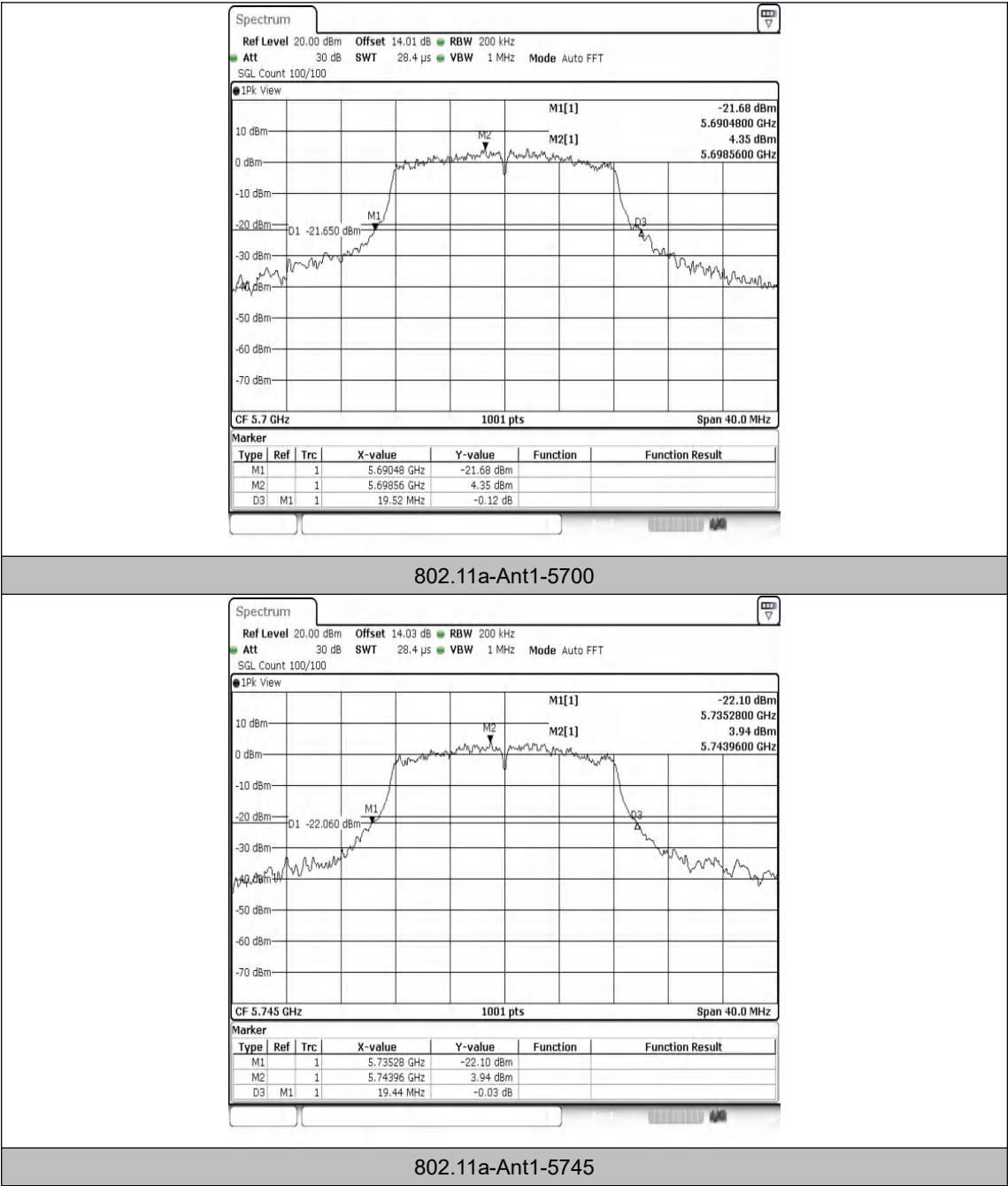
Test Graphs

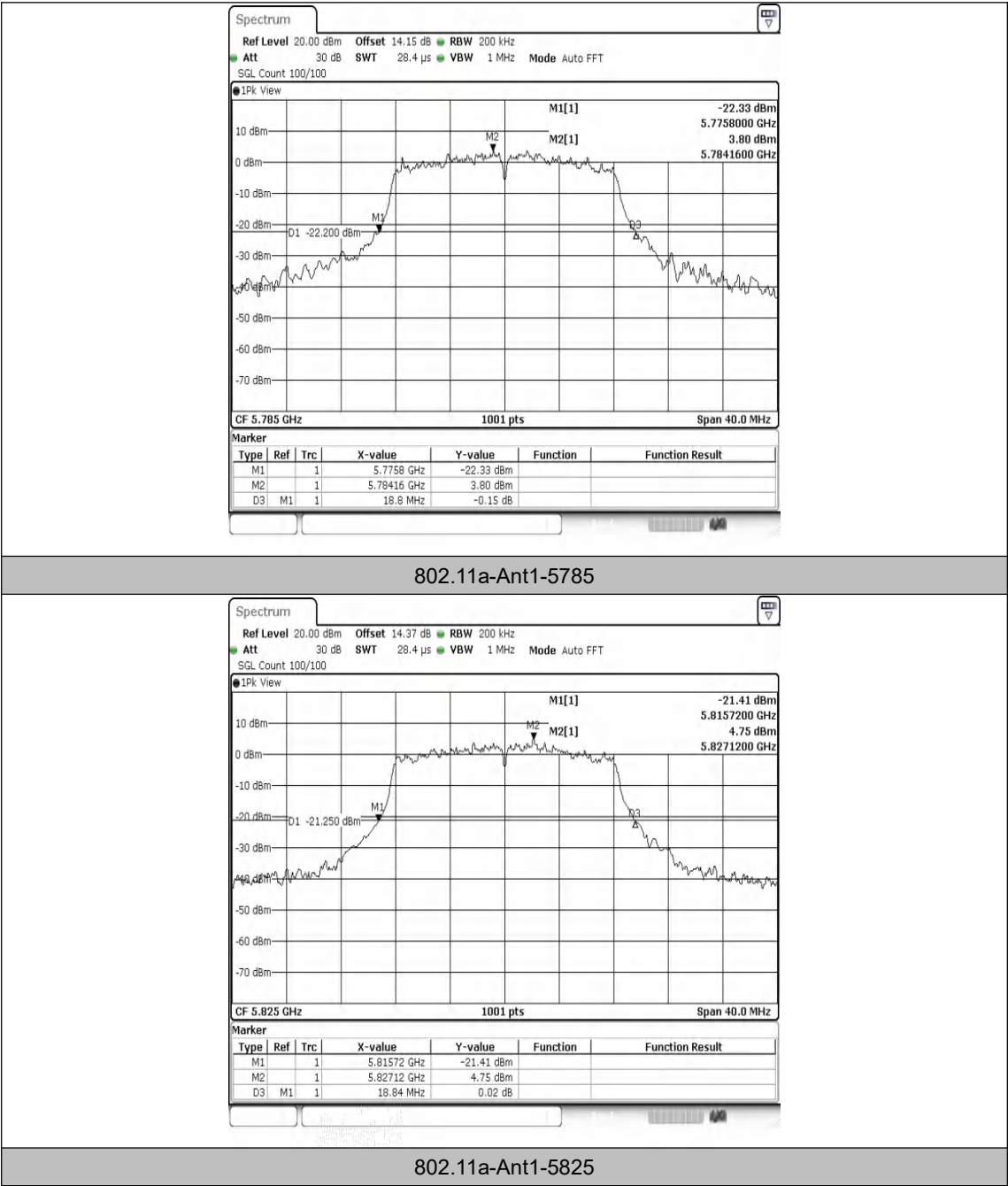


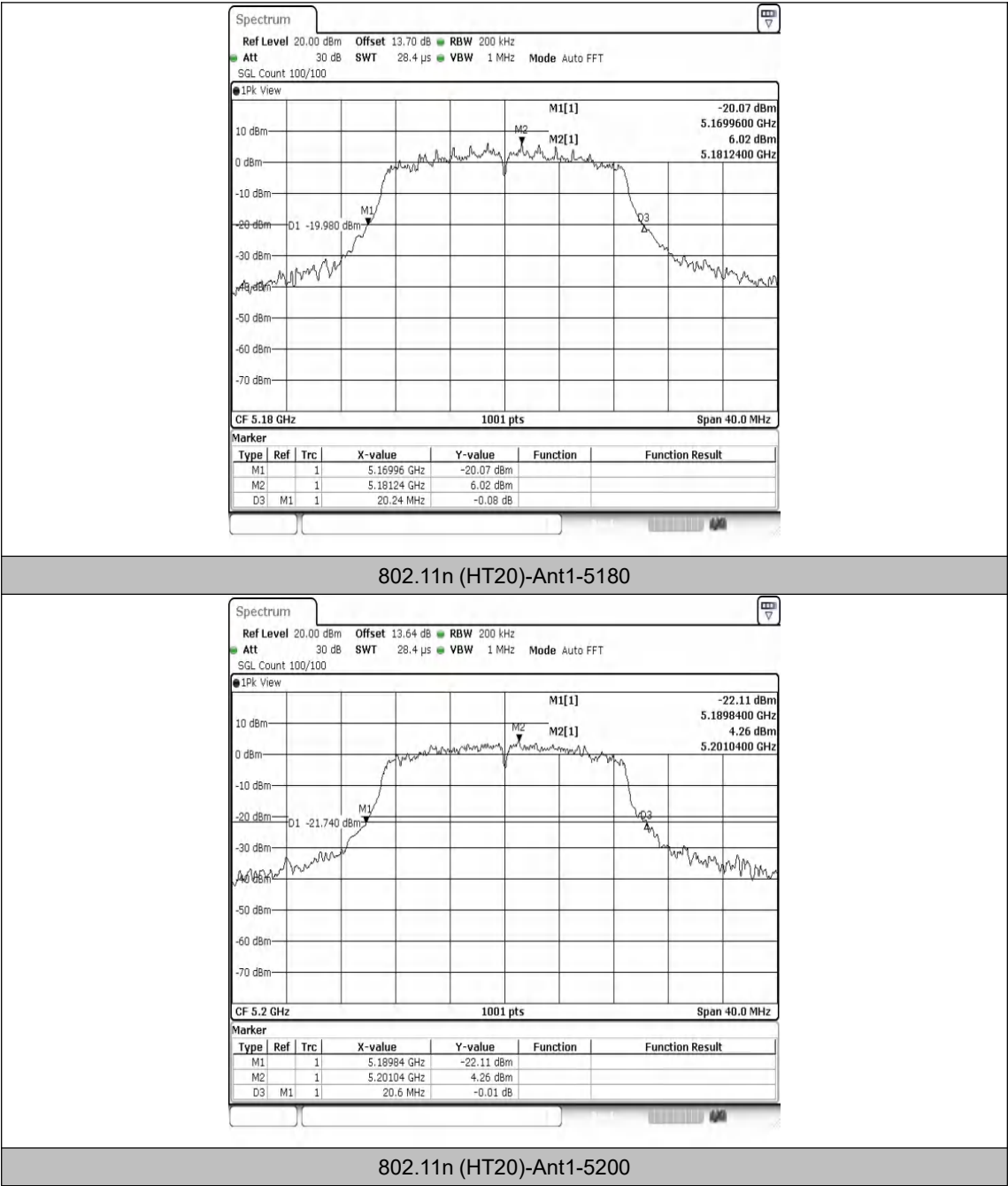


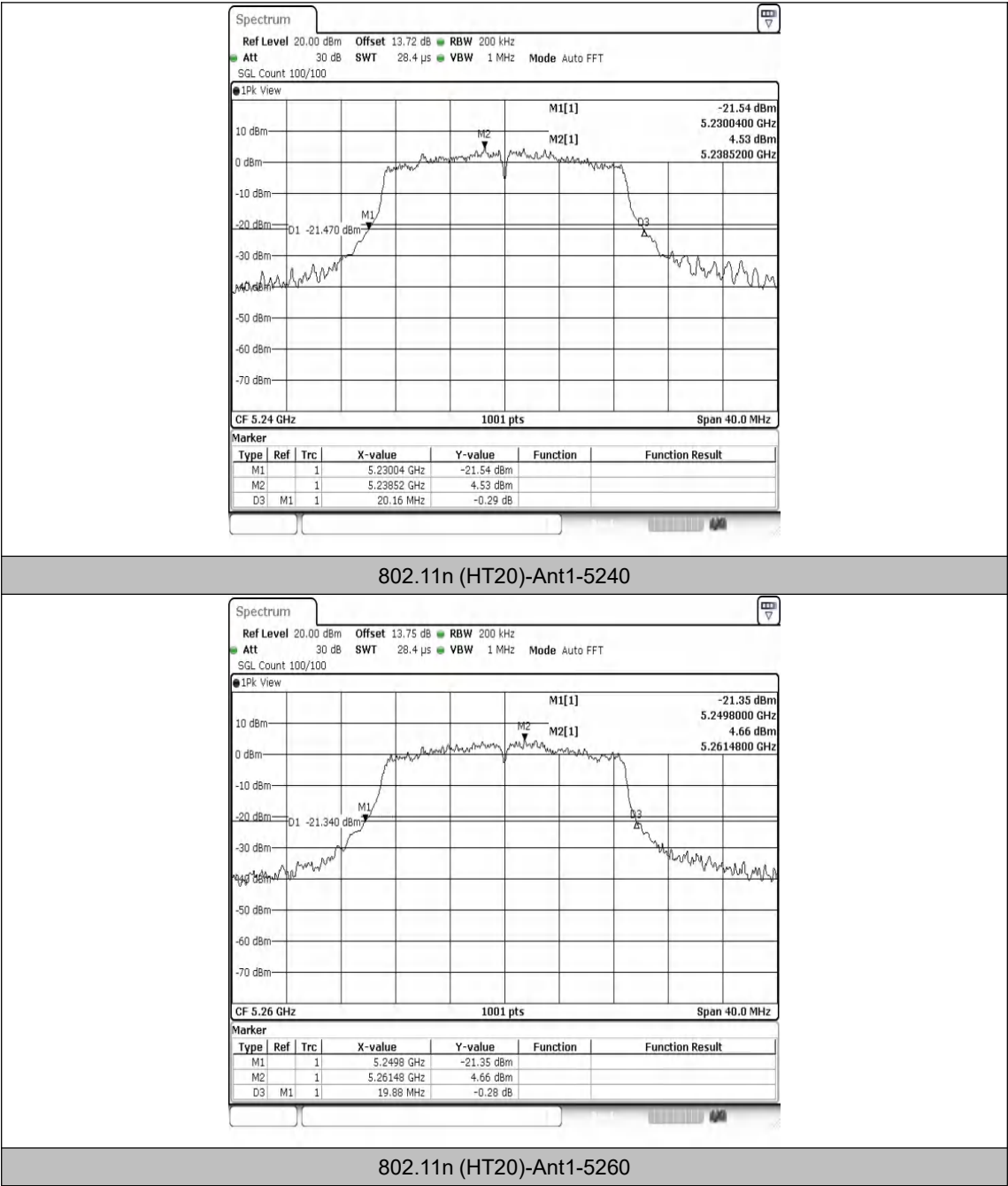


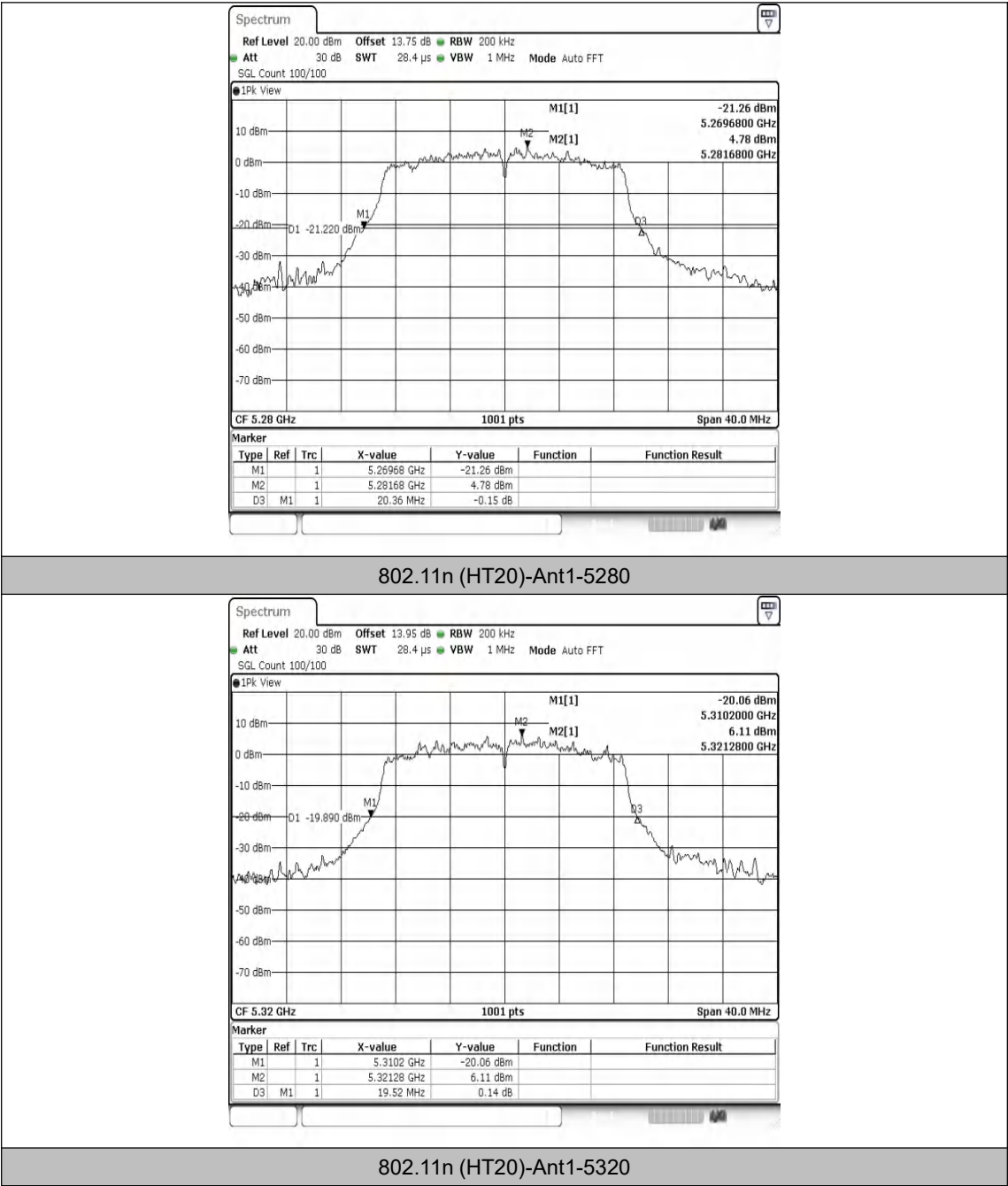


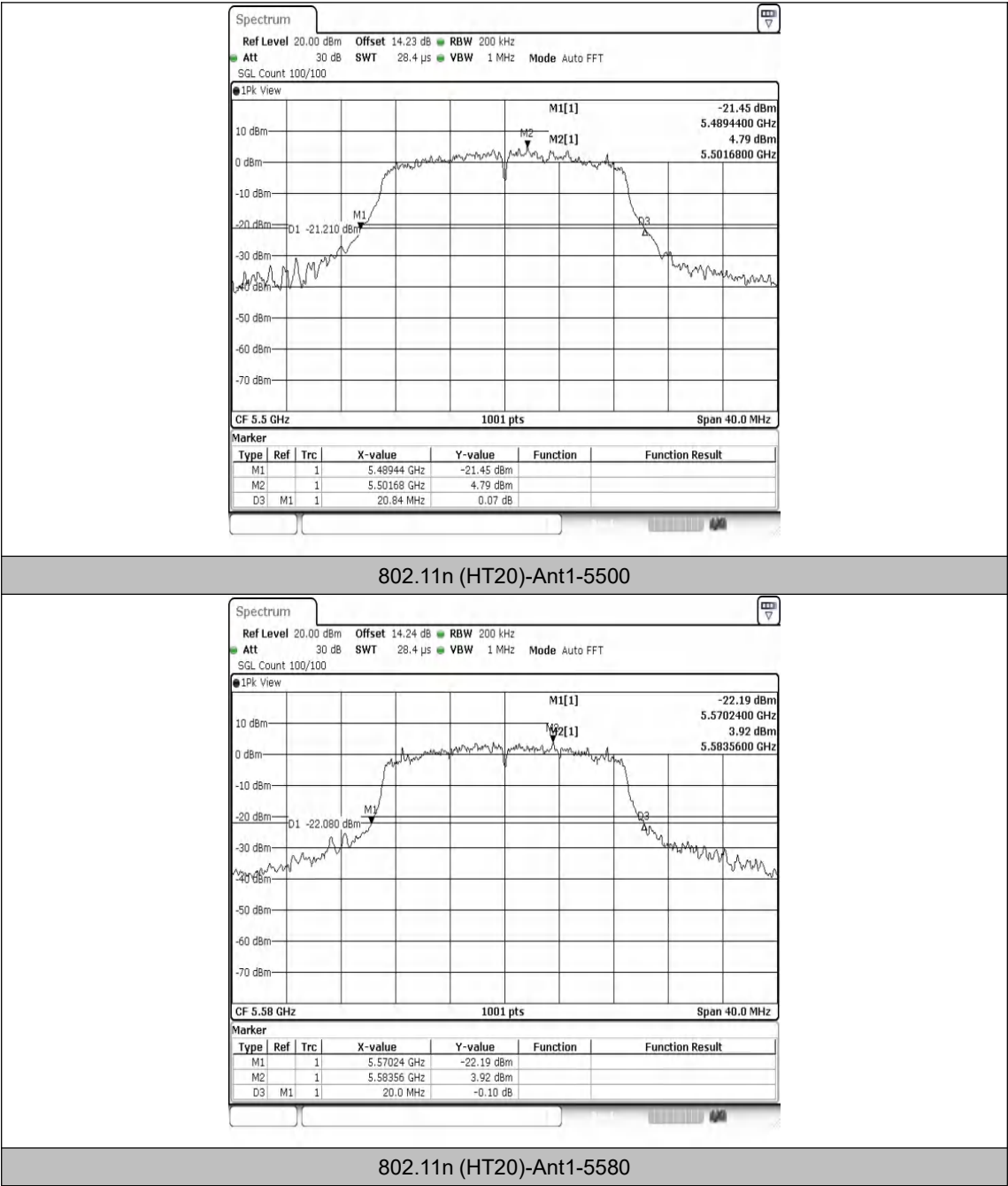


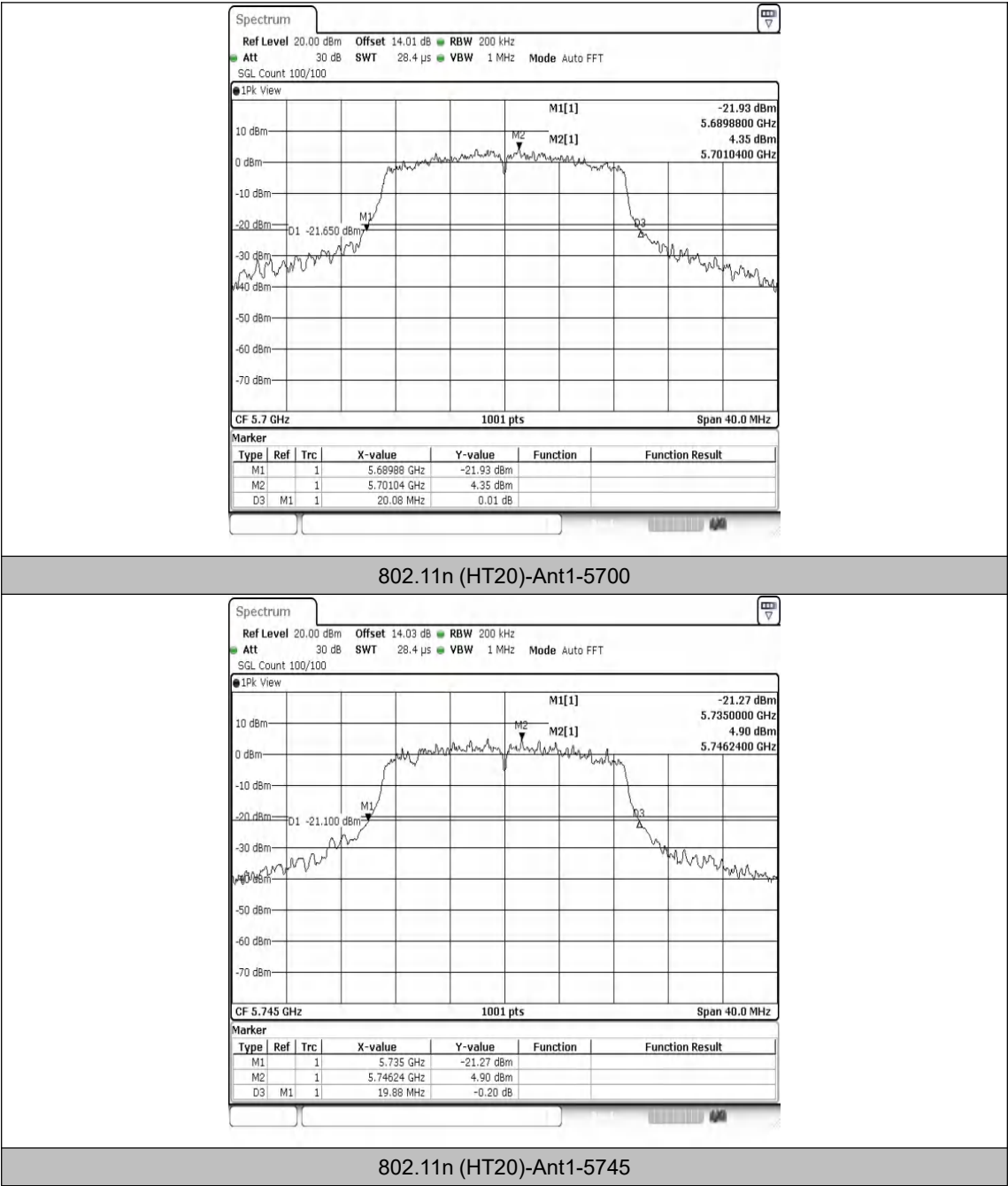


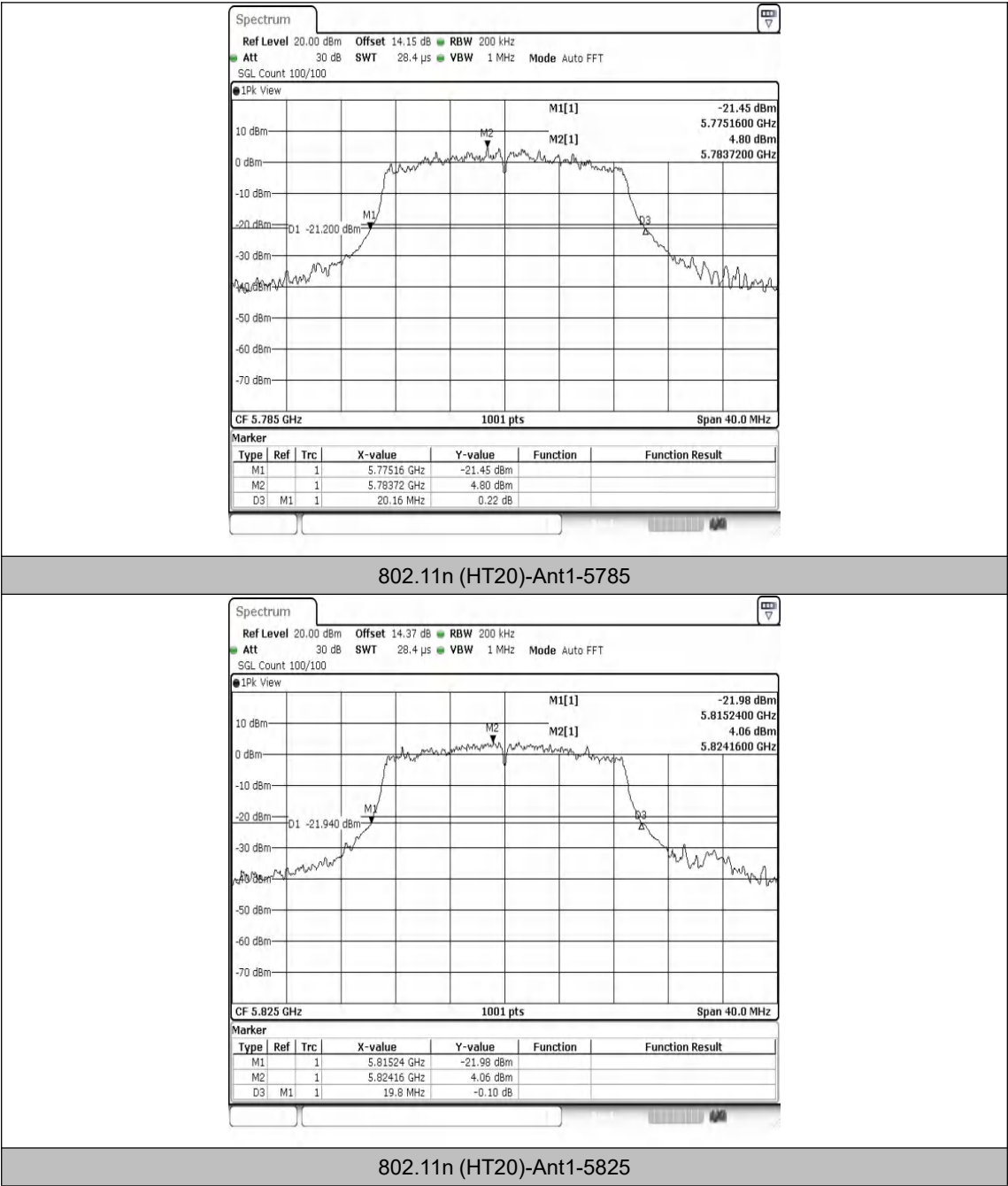












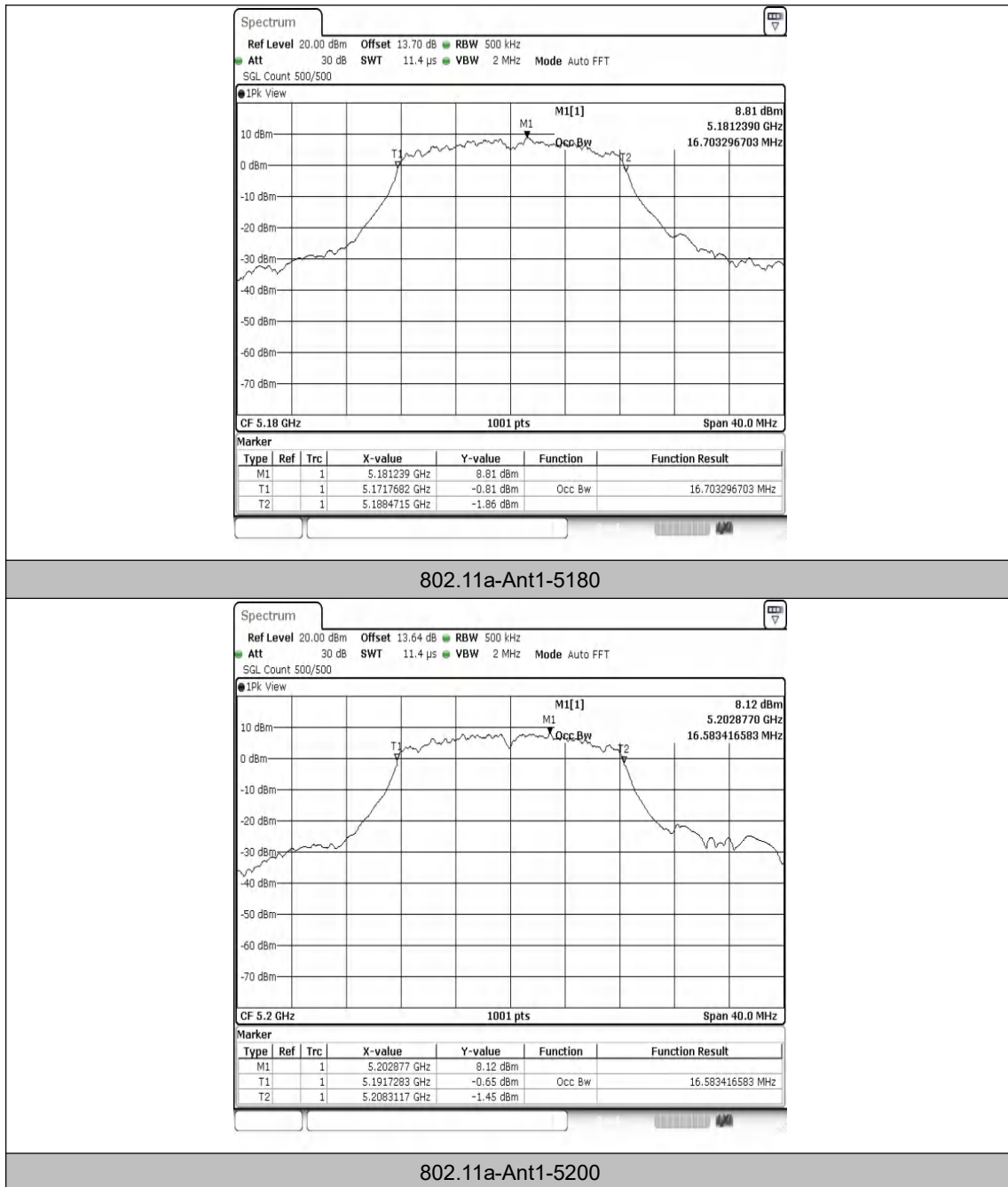
Appendix A2: Occupied channel bandwidth

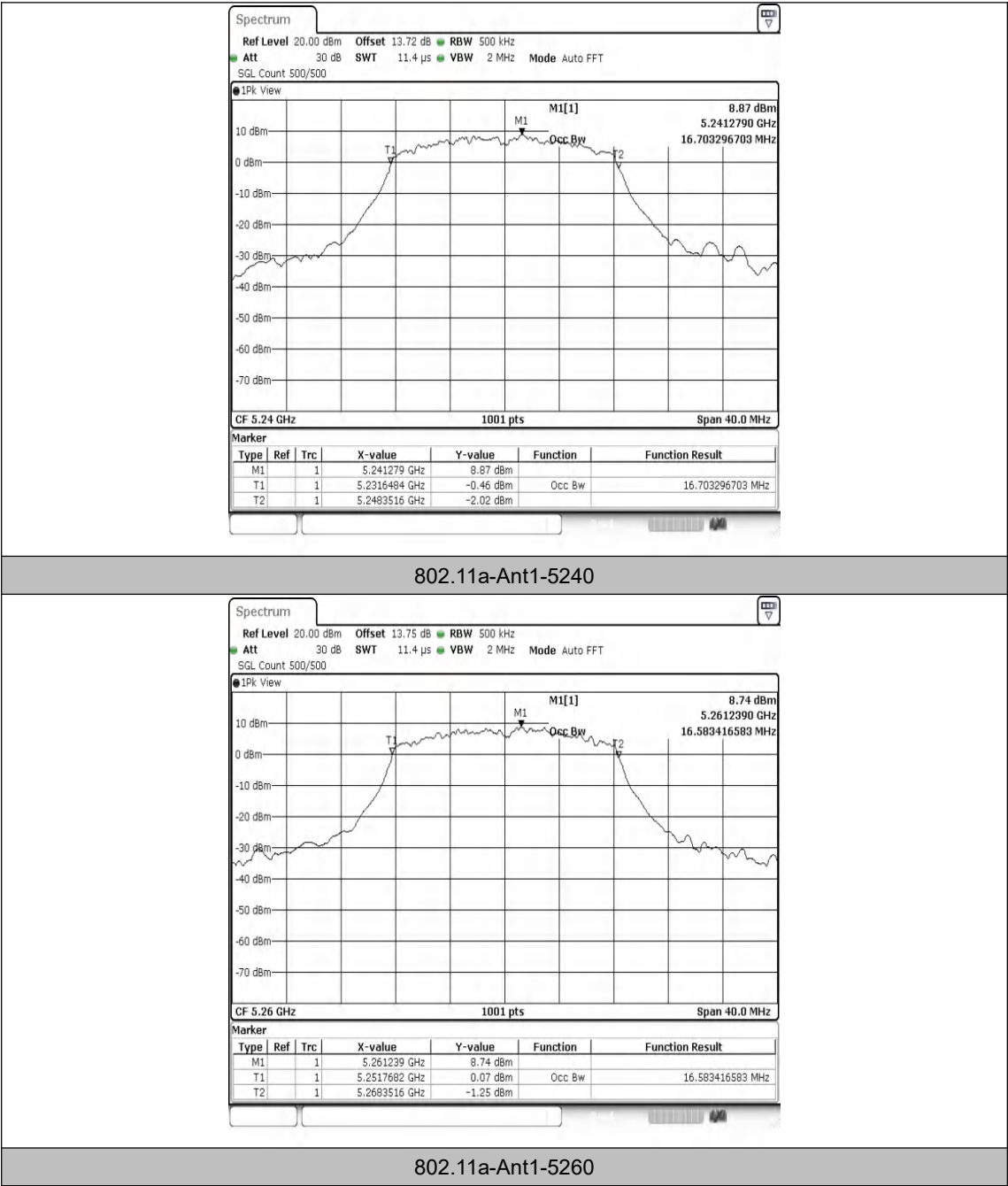
Test Result

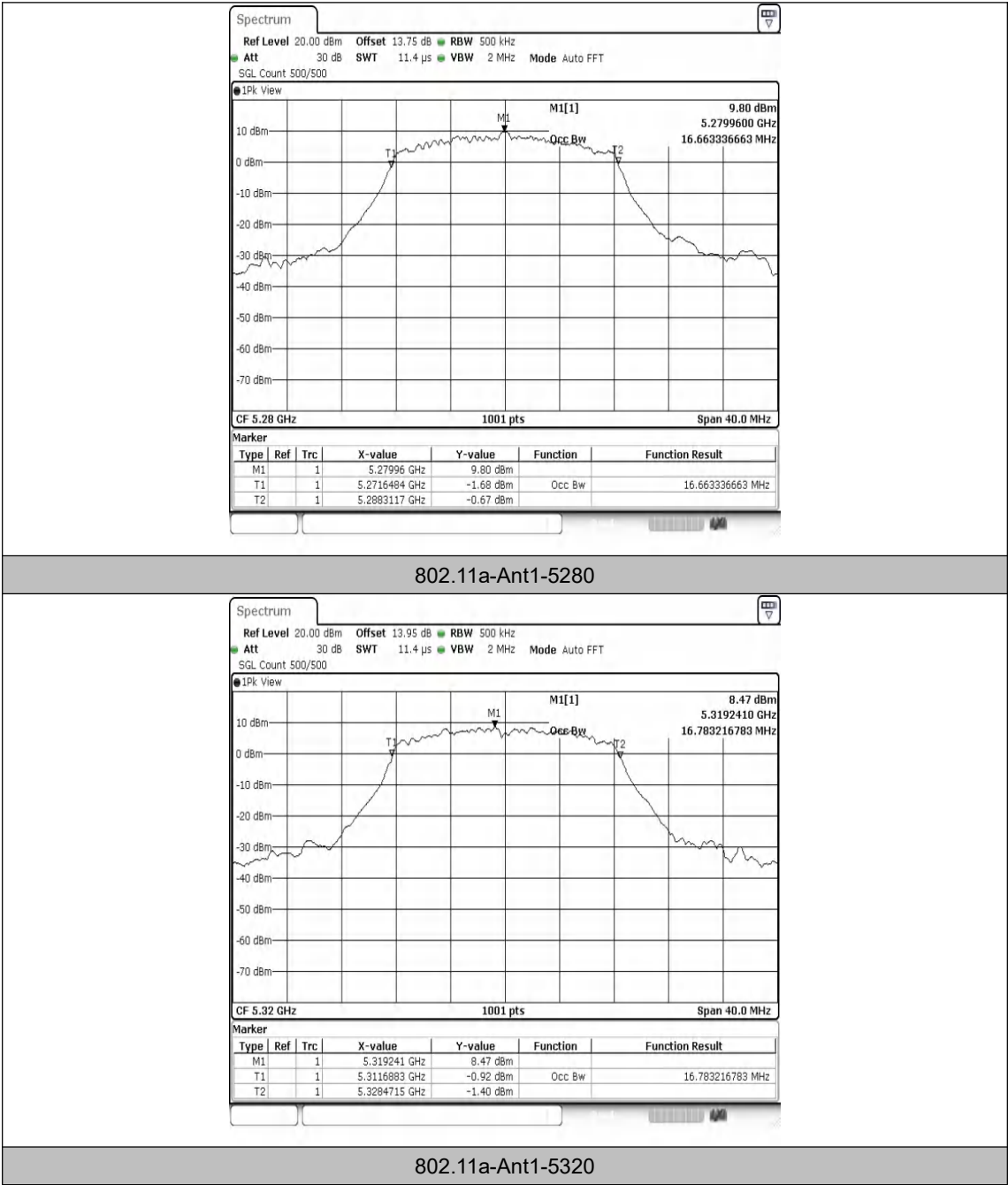
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
802.11a	Ant1	5180	16.703	5171.7682	5188.4715	---	---
802.11a	Ant1	5200	16.583	5191.7283	5208.3117	---	---
802.11a	Ant1	5240	16.703	5231.6484	5248.3516	---	---
802.11a	Ant1	5260	16.583	5251.7682	5268.3516	---	---
802.11a	Ant1	5280	16.663	5271.6484	5288.3117	---	---
802.11a	Ant1	5320	16.783	5311.6883	5328.4715	---	---
802.11a	Ant1	5500	16.663	5491.7283	5508.3916	---	---
802.11a	Ant1	5580	16.783	5571.7283	5588.5115	---	---
802.11a	Ant1	5700	16.663	5691.6084	5708.2717	---	---
802.11a	Ant1	5745	16.623	5736.6484	5753.2717	---	---
802.11a	Ant1	5785	16.663	5776.6484	5793.3117	---	---
802.11a	Ant1	5825	16.663	5816.6484	5833.3117	---	---
802.11n (HT20)	Ant1	5180	17.622	5171.2088	5188.8312	---	---
802.11n (HT20)	Ant1	5200	17.622	5191.2088	5208.8312	---	---
802.11n (HT20)	Ant1	5240	17.622	5231.1289	5248.7512	---	---
802.11n (HT20)	Ant1	5260	17.702	5251.1688	5268.8711	---	---
802.11n (HT20)	Ant1	5280	17.582	5271.2488	5288.8312	---	---
802.11n (HT20)	Ant1	5320	17.902	5311.0090	5328.9111	---	---
802.11n (HT20)	Ant1	5500	17.622	5491.2488	5508.8711	---	---
802.11n (HT20)	Ant1	5580	17.982	5570.9690	5588.9510	---	---
802.11n (HT20)	Ant1	5700	17.742	5691.0889	5708.8312	---	---
802.11n (HT20)	Ant1	5745	17.942	5735.8891	5753.8312	---	---
802.11n (HT20)	Ant1	5785	17.822	5776.2088	5794.0310	---	---
802.11n (HT20)	Ant1	5825	17.862	5816.1289	5833.9910	---	---

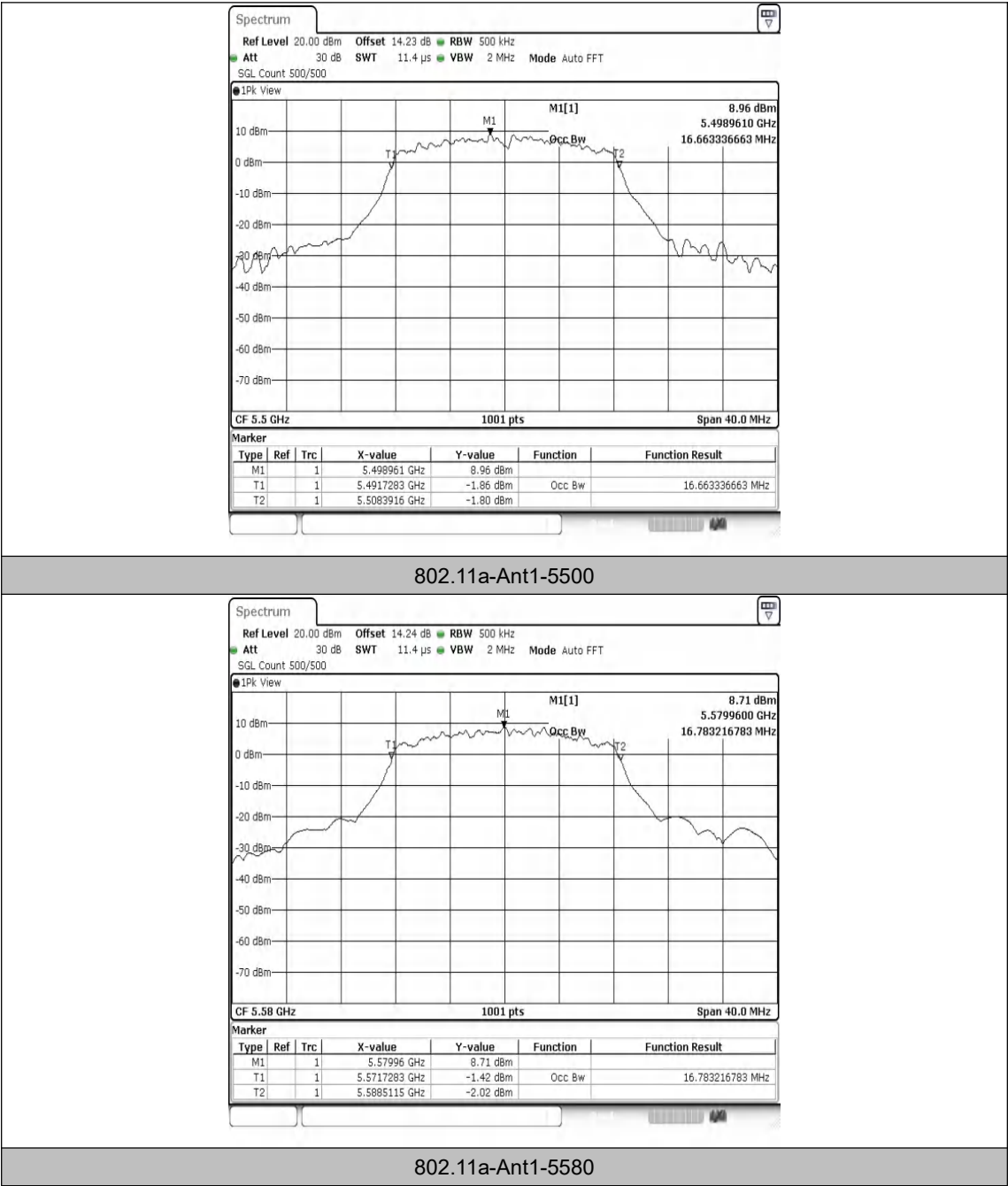


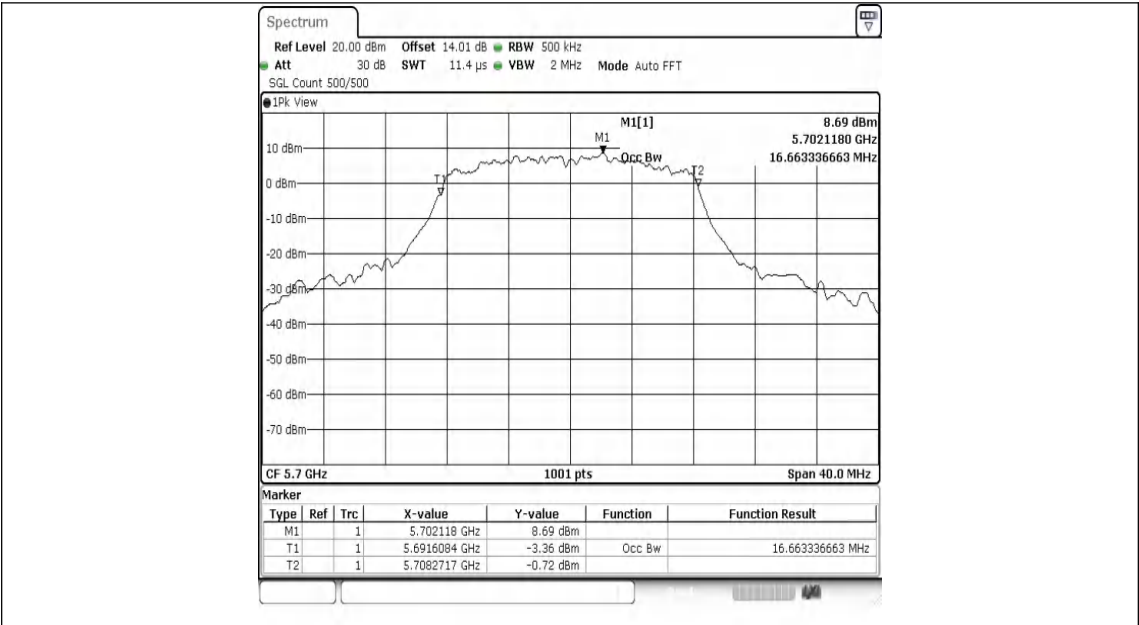
Test Graphs



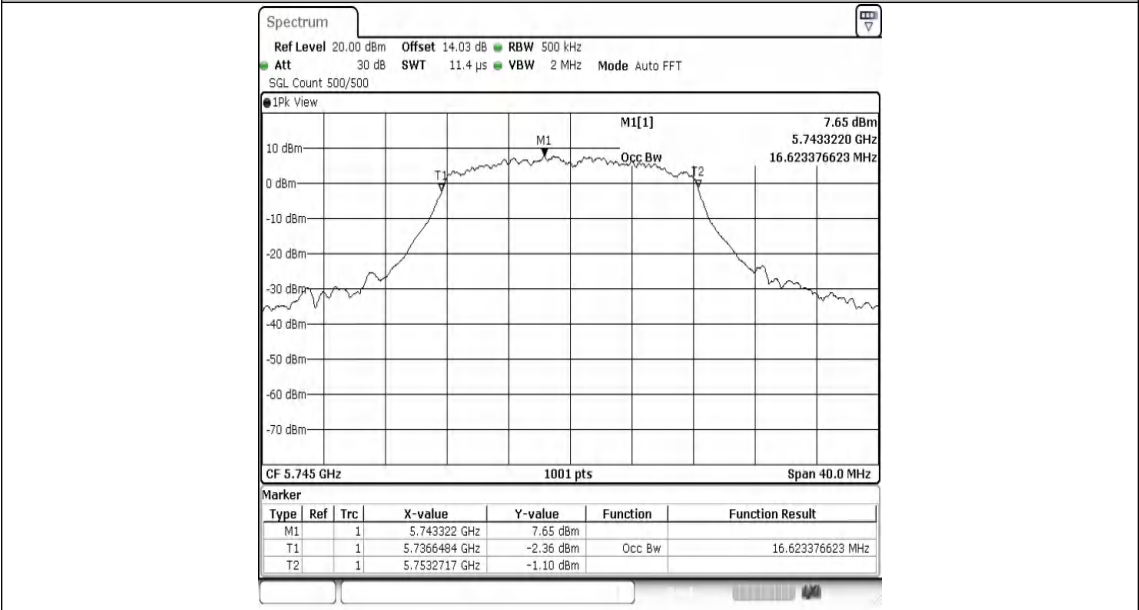






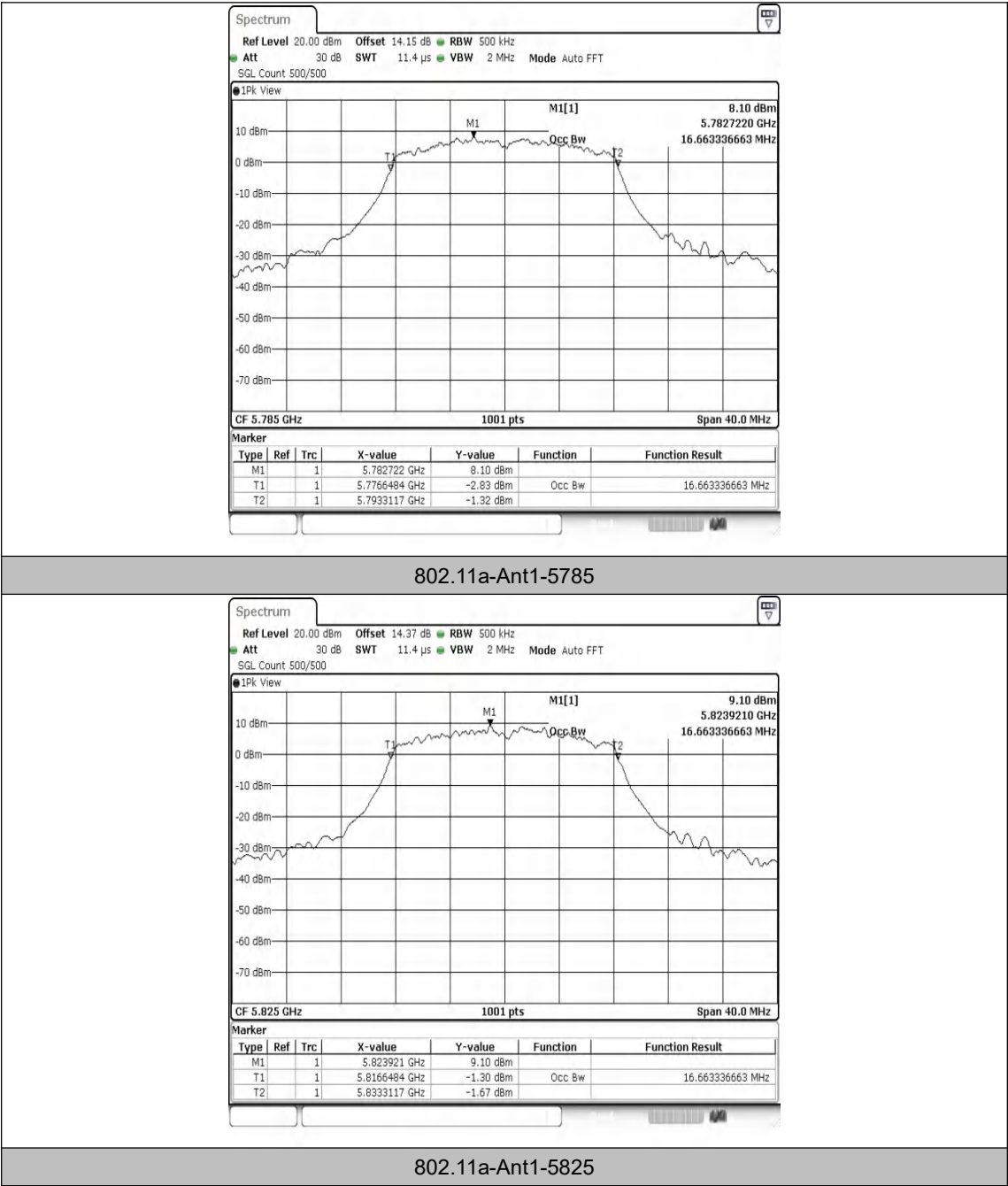


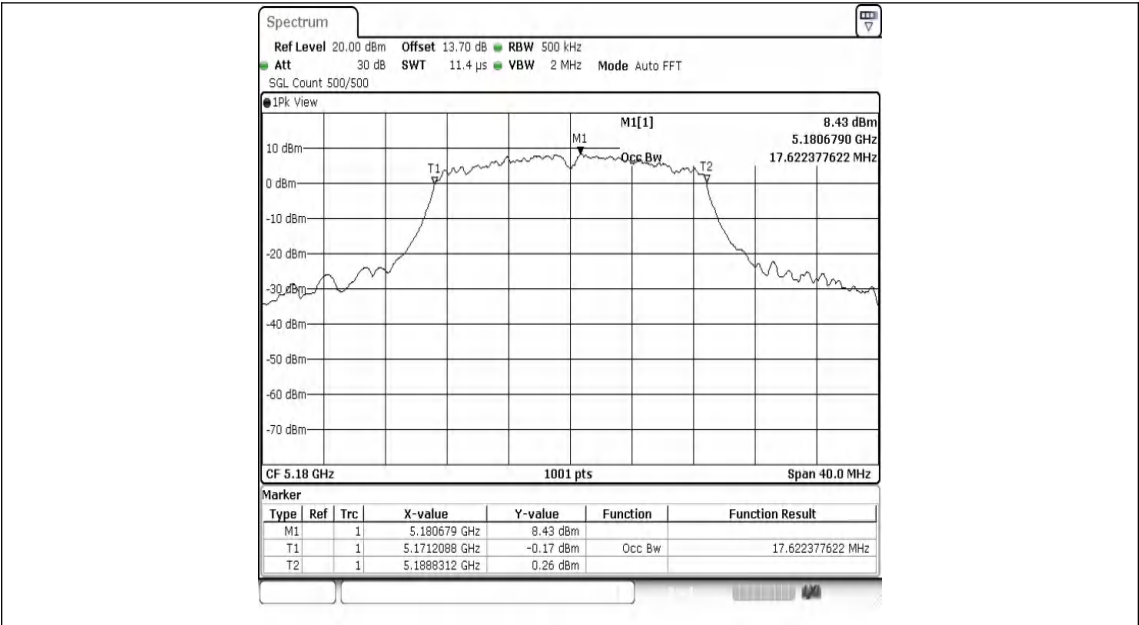
802.11a-Ant1-5700



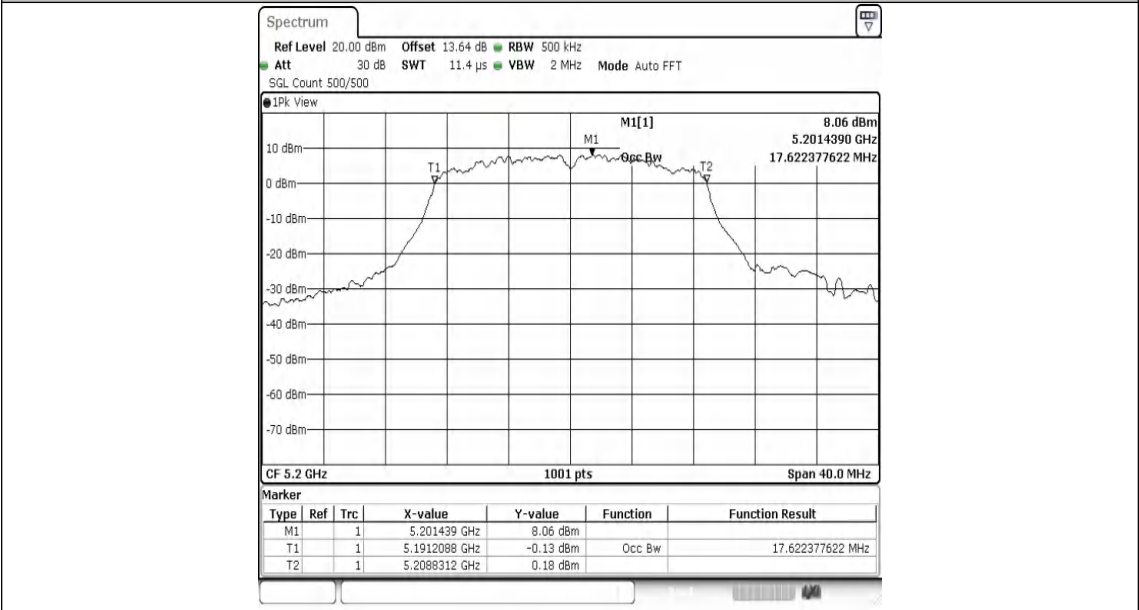
802.11a-Ant1-5745





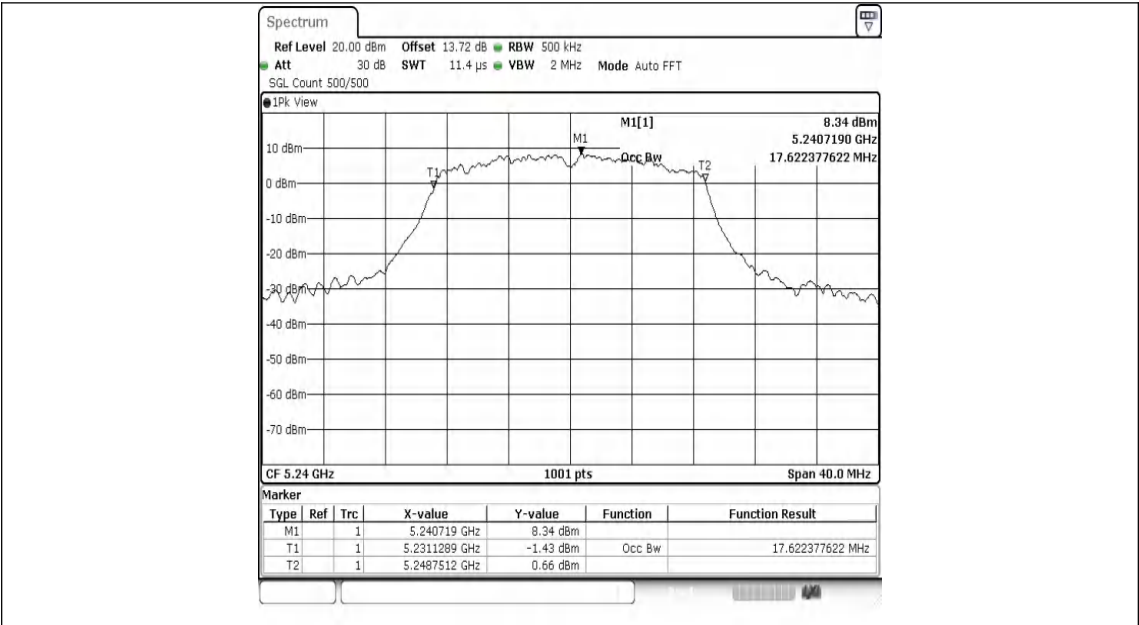


802.11n (HT20)-Ant1-5180

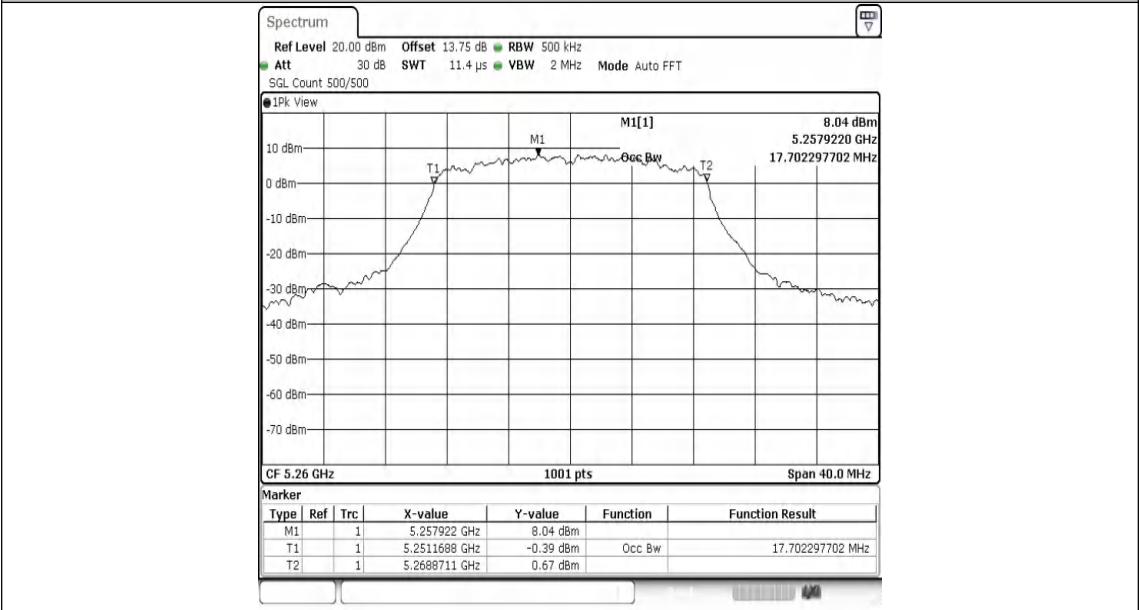


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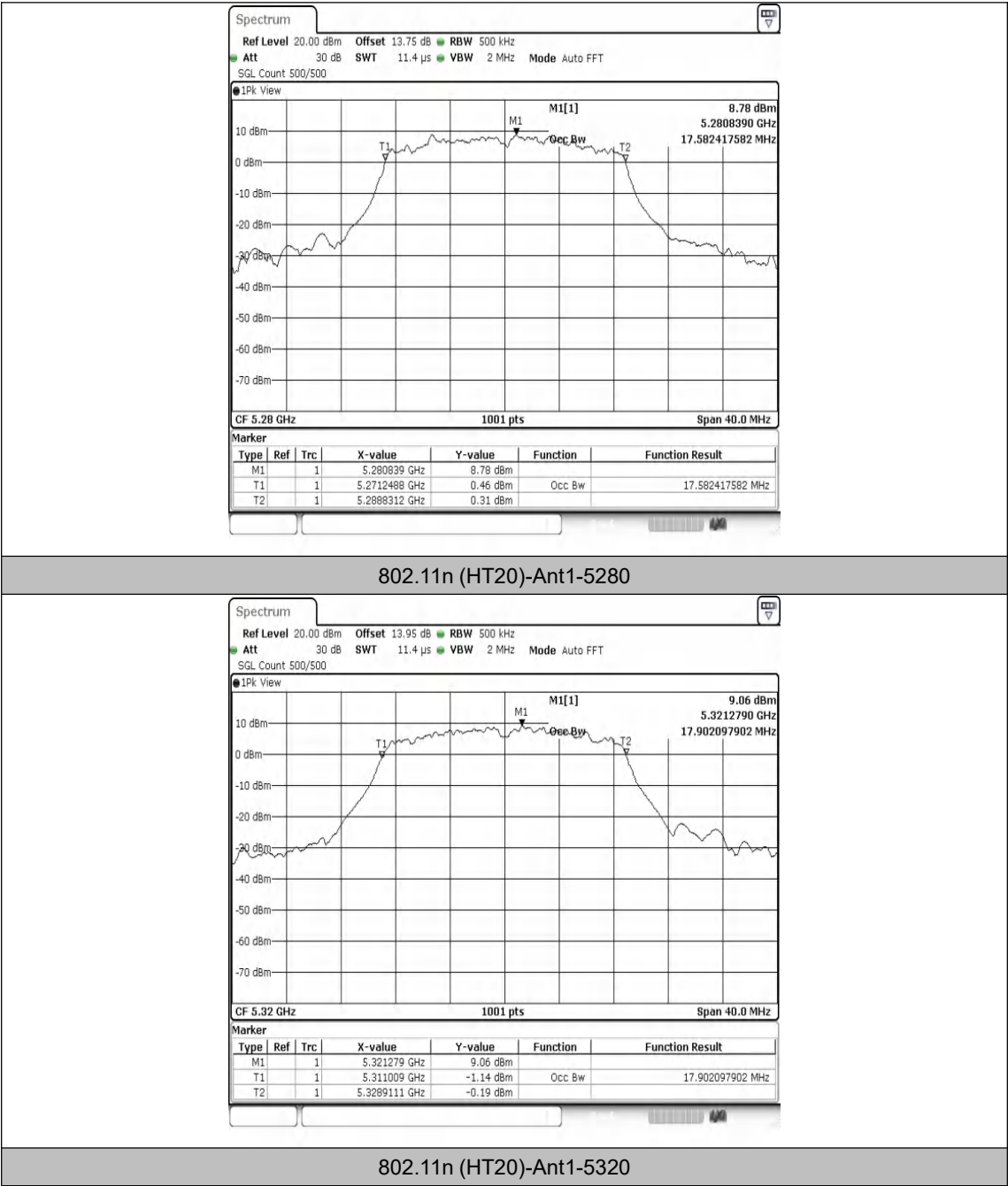


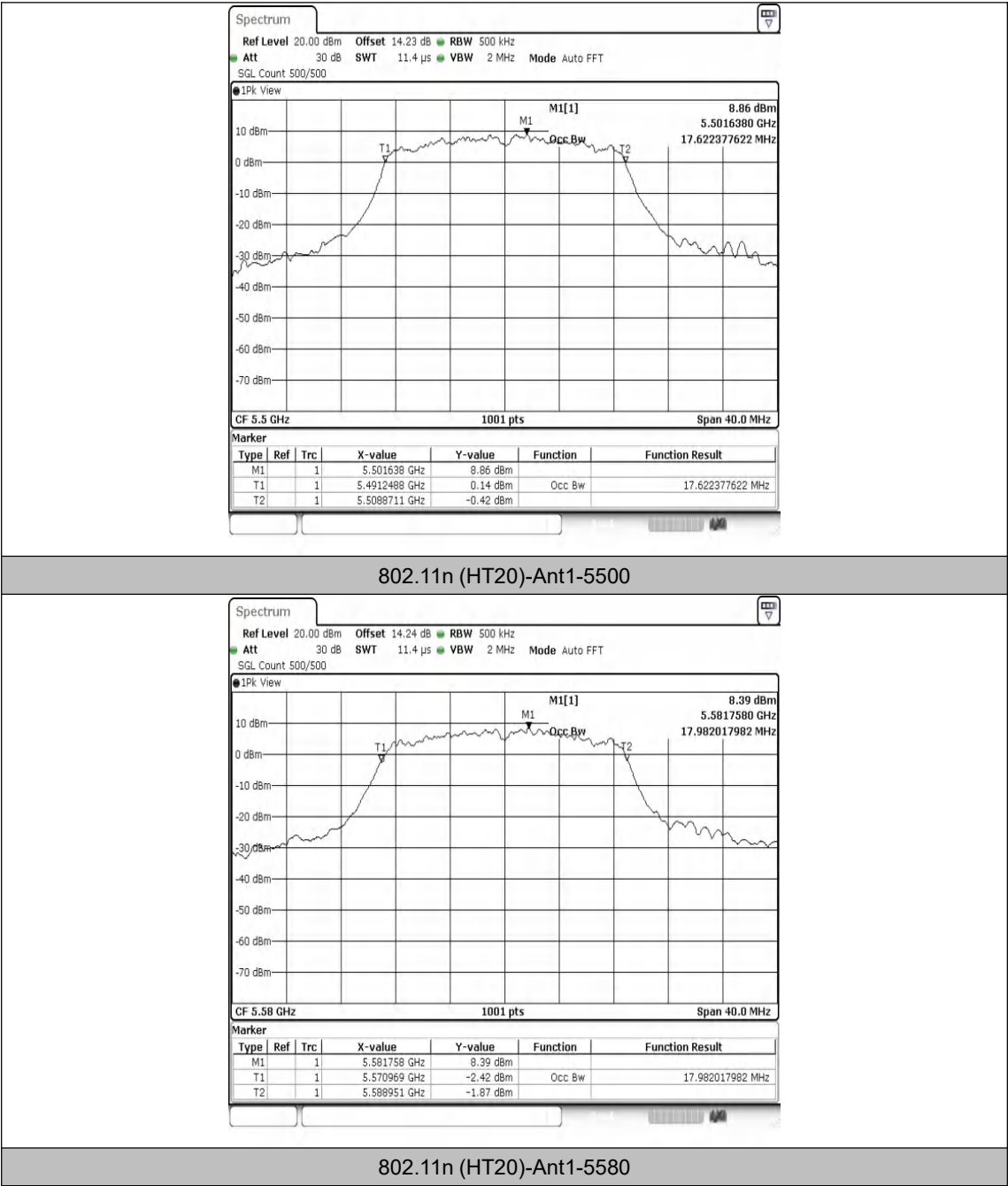
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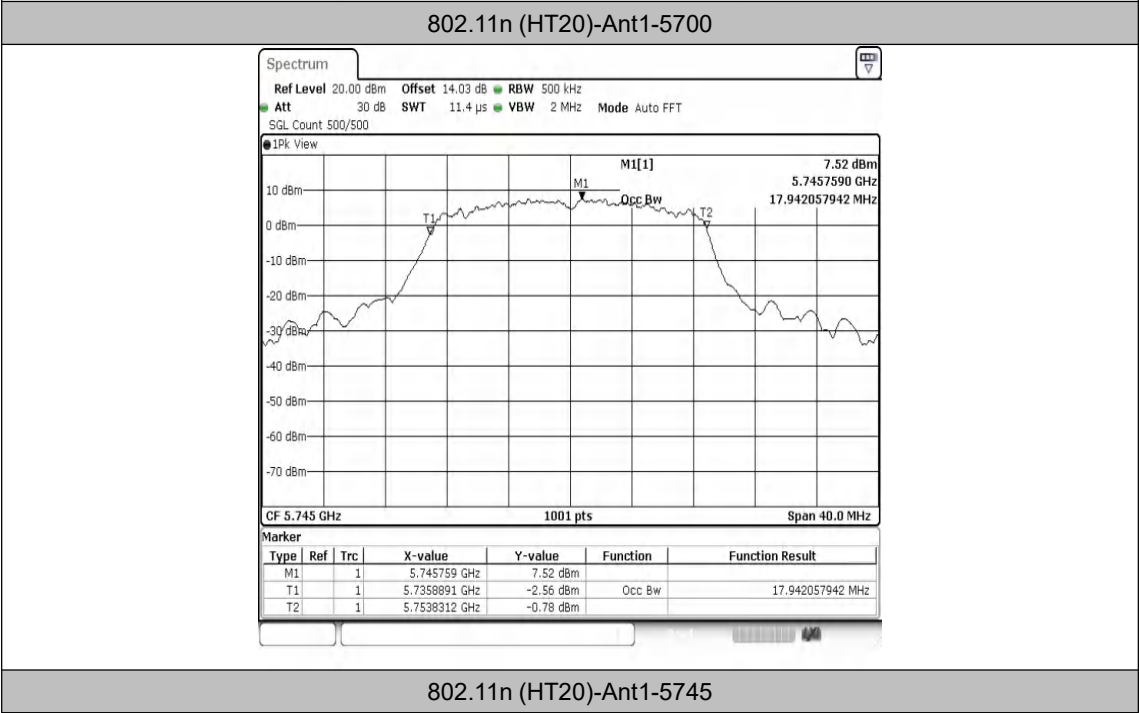
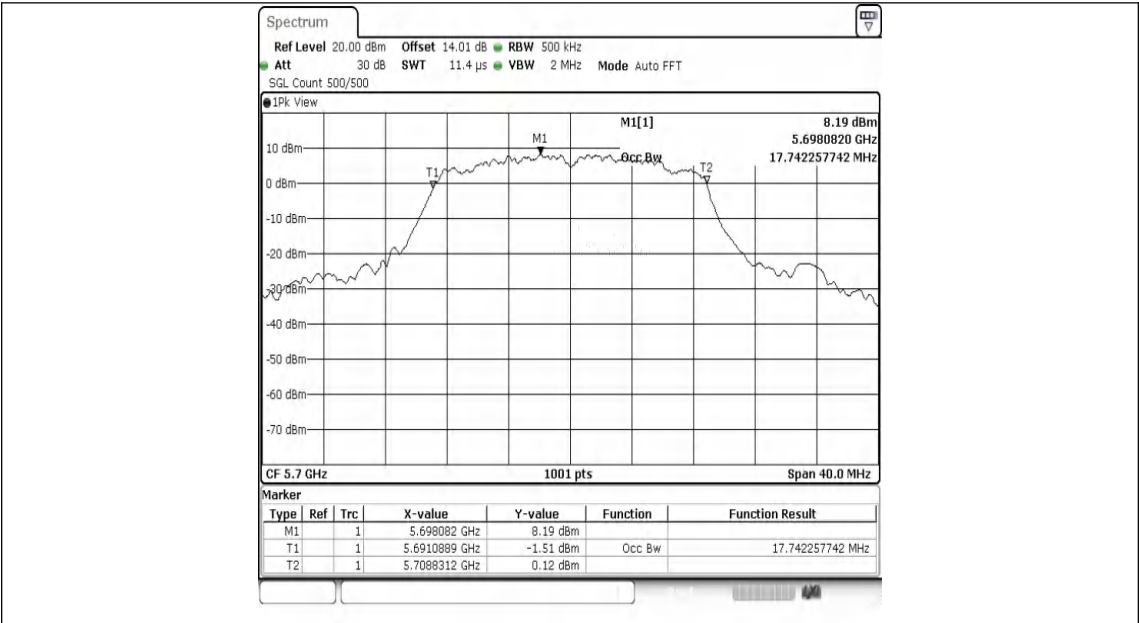


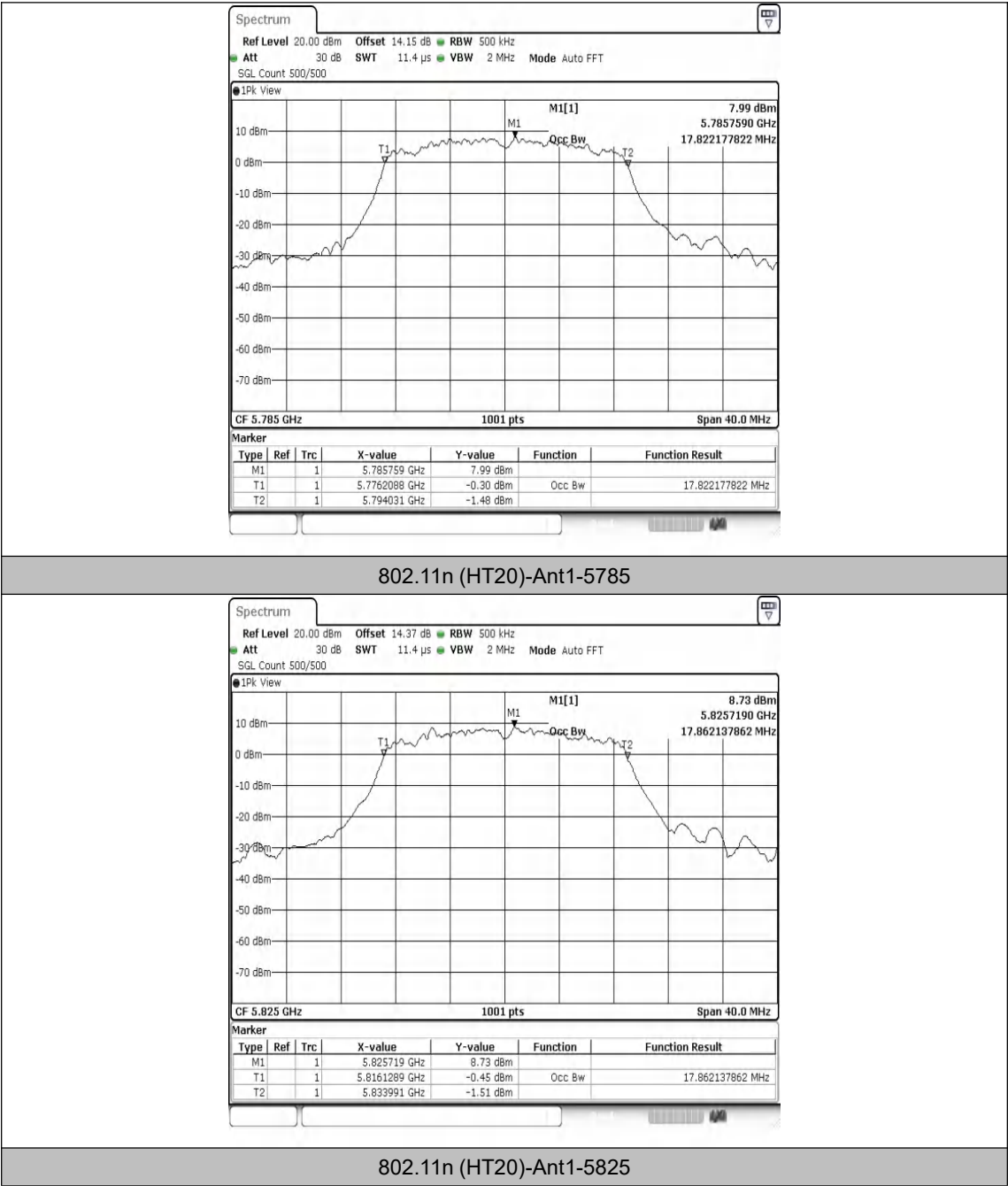
802.11n (HT20)-Ant1-5260











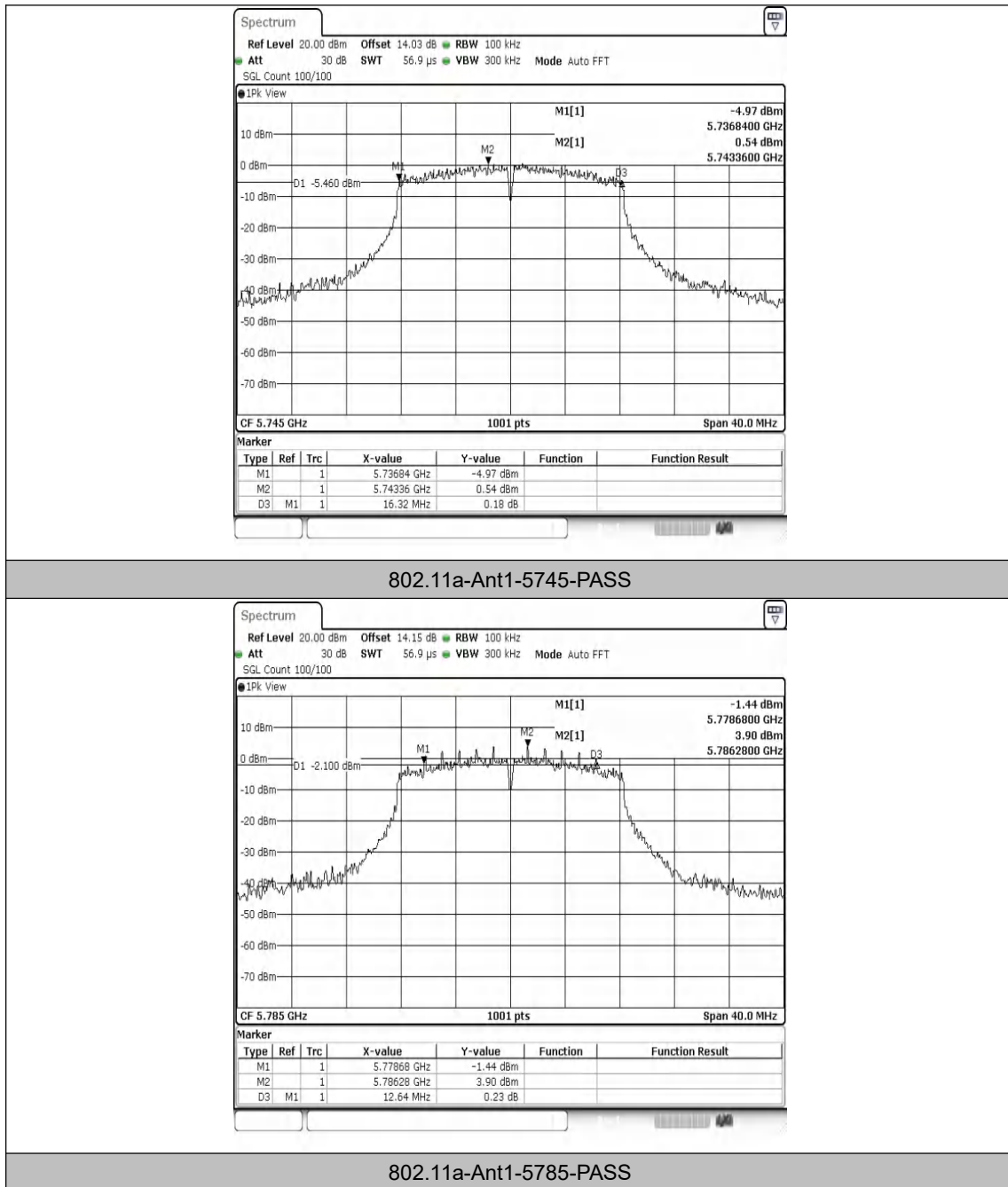
Appendix A3: Min emission bandwidth

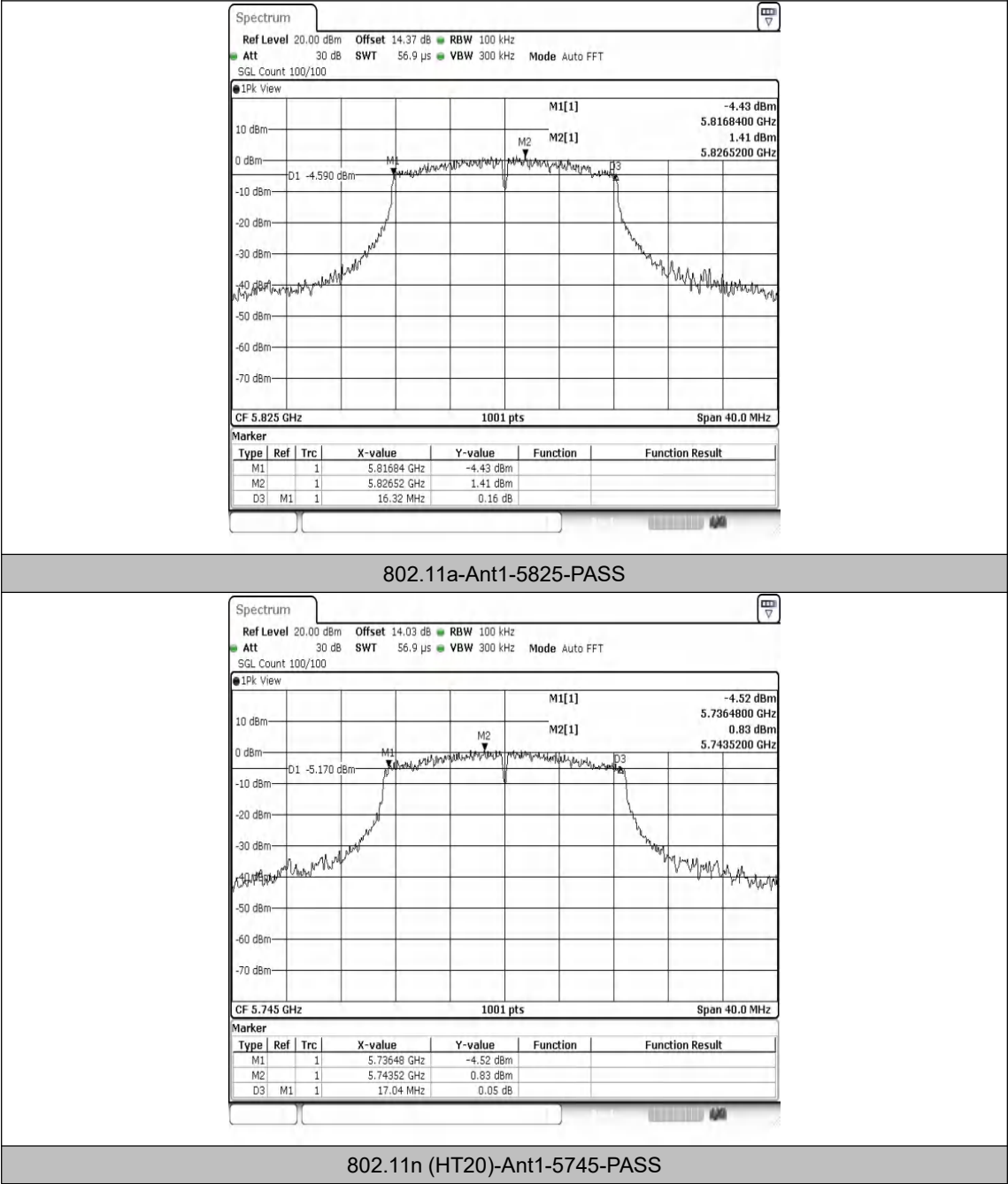
Test Result B4

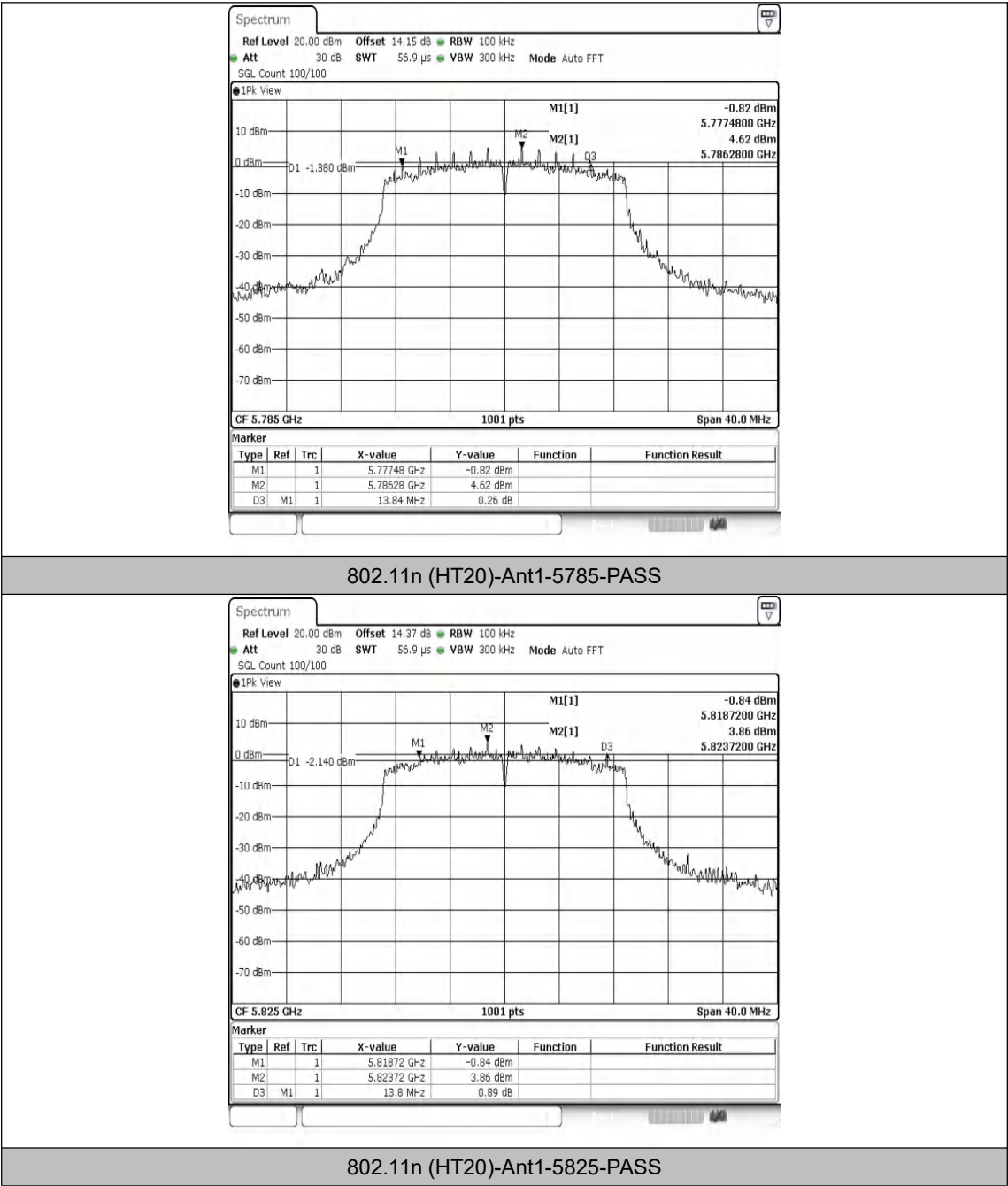
TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
802.11a	Ant1	5745	16.32	5736.84	5753.16	0.5	PASS
802.11a	Ant1	5785	12.64	5778.68	5791.32	0.5	PASS
802.11a	Ant1	5825	16.32	5816.84	5833.16	0.5	PASS
802.11n (HT20)	Ant1	5745	17.04	5736.48	5753.52	0.5	PASS
802.11n (HT20)	Ant1	5785	13.84	5777.48	5791.32	0.5	PASS
802.11n (HT20)	Ant1	5825	13.80	5818.72	5832.52	0.5	PASS



Test Graphs B4







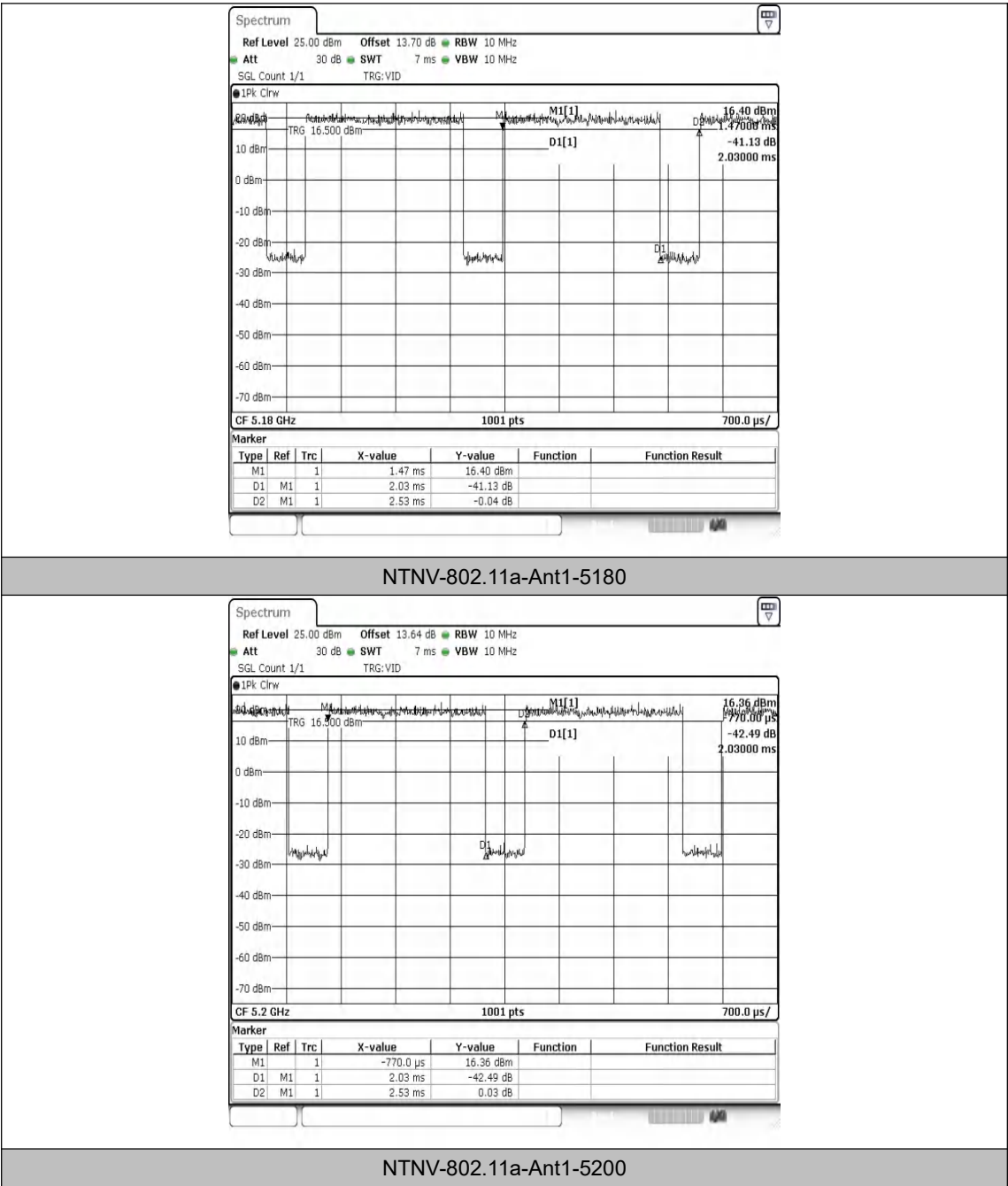
Appendix B: Duty Cycle

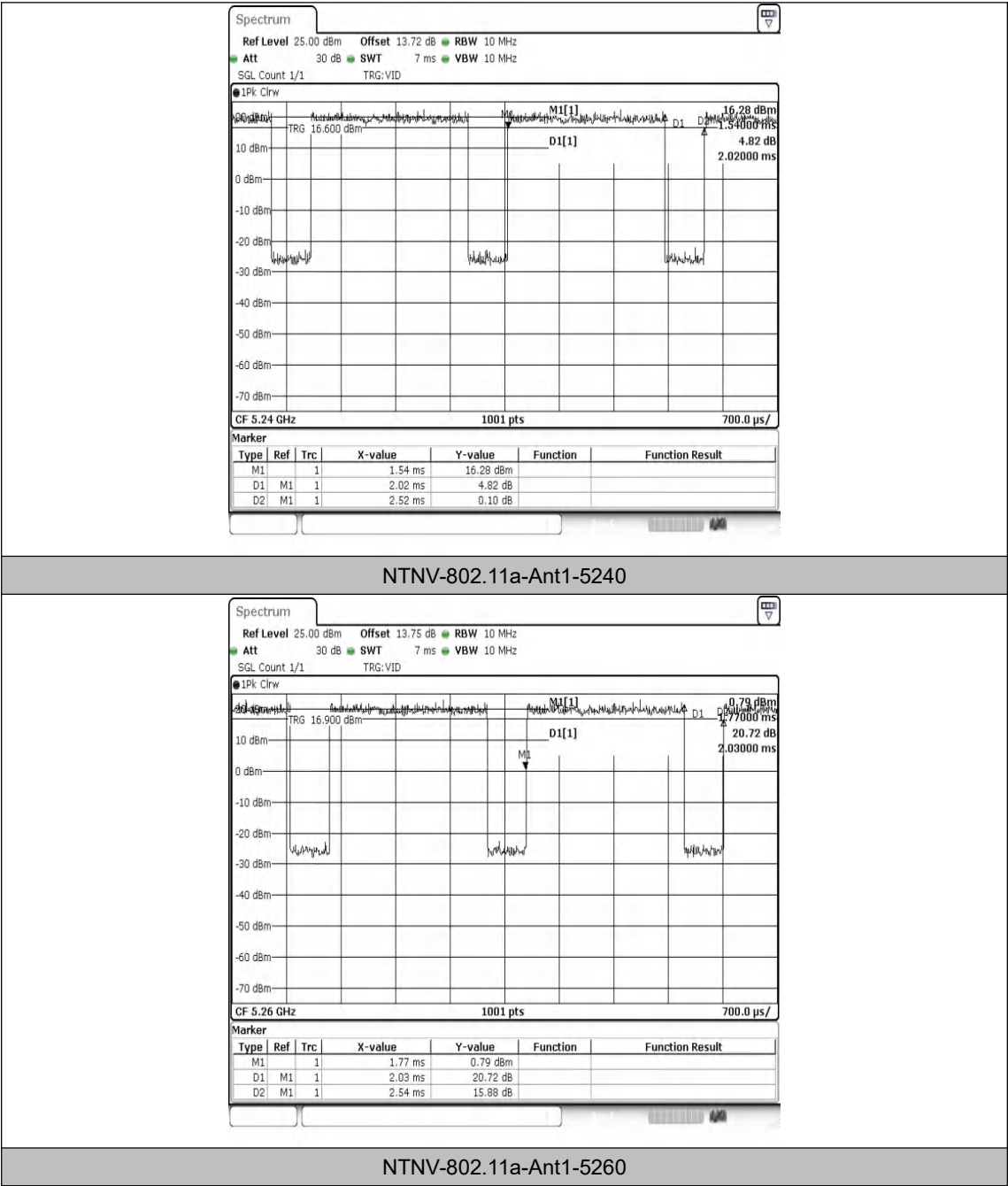
Test Result

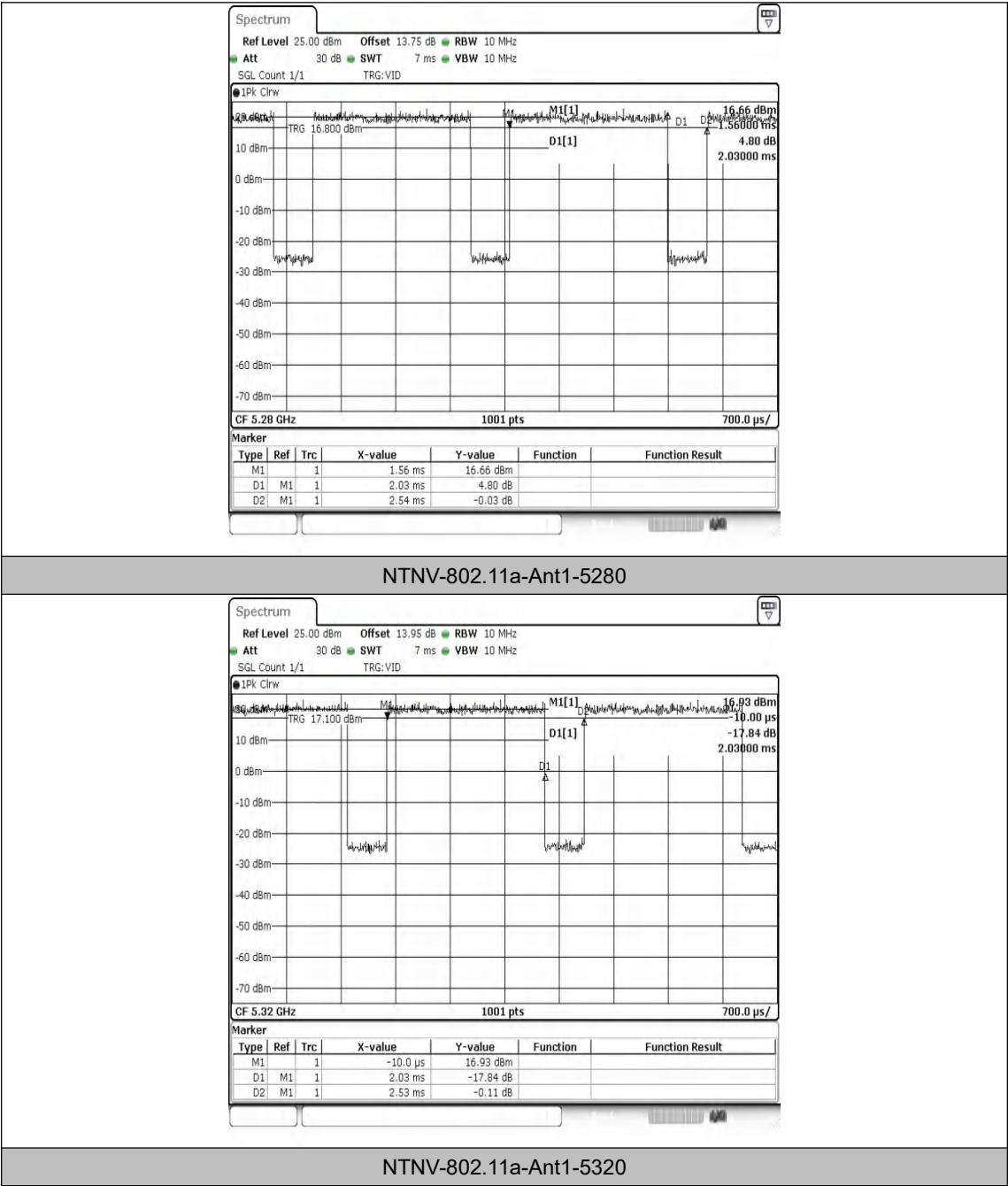
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Dc Factor [dB]	1/T
802.11a	Ant1	5180	2.03	2.53	80.24	0.96	0.49
802.11a	Ant1	5200	2.03	2.53	80.24	0.96	0.49
802.11a	Ant1	5240	2.02	2.52	80.16	0.96	0.50
802.11a	Ant1	5260	2.03	2.54	79.92	0.97	0.49
802.11a	Ant1	5280	2.03	2.54	79.92	0.97	0.49
802.11a	Ant1	5320	2.03	2.53	80.24	0.96	0.49
802.11a	Ant1	5500	2.03	2.53	80.24	0.96	0.49
802.11a	Ant1	5580	2.02	2.53	79.84	0.98	0.50
802.11a	Ant1	5700	2.03	2.54	79.92	0.97	0.49
802.11a	Ant1	5745	2.02	2.53	79.84	0.98	0.50
802.11a	Ant1	5785	2.02	2.53	79.84	0.98	0.50
802.11a	Ant1	5825	2.02	2.53	79.84	0.98	0.50
802.11n (HT20)	Ant1	5180	1.89	2.40	78.75	1.04	0.53
802.11n (HT20)	Ant1	5200	1.89	2.39	79.08	1.02	0.53
802.11n (HT20)	Ant1	5240	1.89	2.39	79.08	1.02	0.53
802.11n (HT20)	Ant1	5260	1.89	2.40	78.75	1.04	0.53
802.11n (HT20)	Ant1	5280	1.89	2.39	79.08	1.02	0.53
802.11n (HT20)	Ant1	5320	1.89	2.39	79.08	1.02	0.53
802.11n (HT20)	Ant1	5500	1.89	2.39	79.08	1.02	0.53
802.11n (HT20)	Ant1	5580	1.89	2.39	79.08	1.02	0.53
802.11n (HT20)	Ant1	5700	1.89	2.40	78.75	1.04	0.53
802.11n (HT20)	Ant1	5745	1.89	2.40	78.75	1.04	0.53
802.11n (HT20)	Ant1	5785	1.89	2.39	79.08	1.02	0.53
802.11n (HT20)	Ant1	5825	1.89	2.40	78.75	1.04	0.53

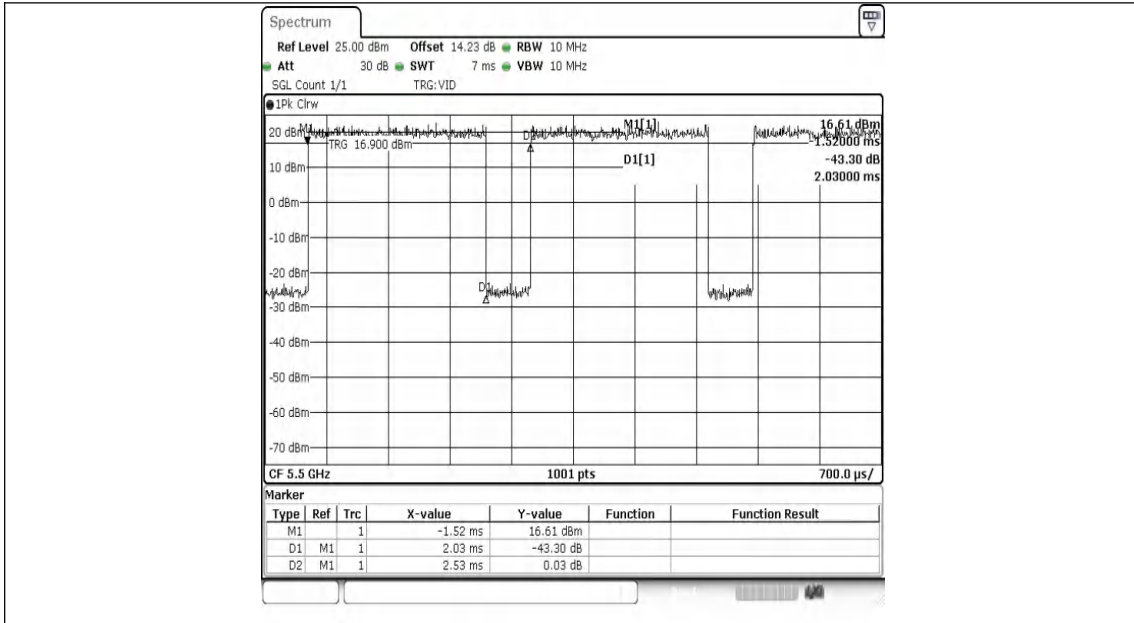


Test Graphs

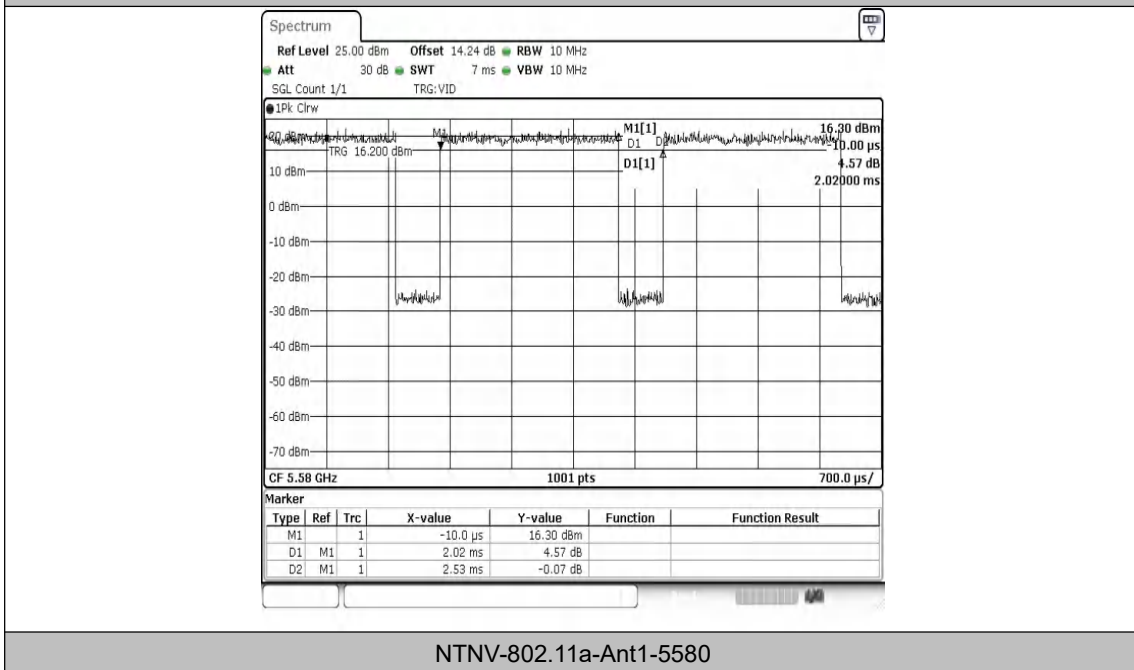






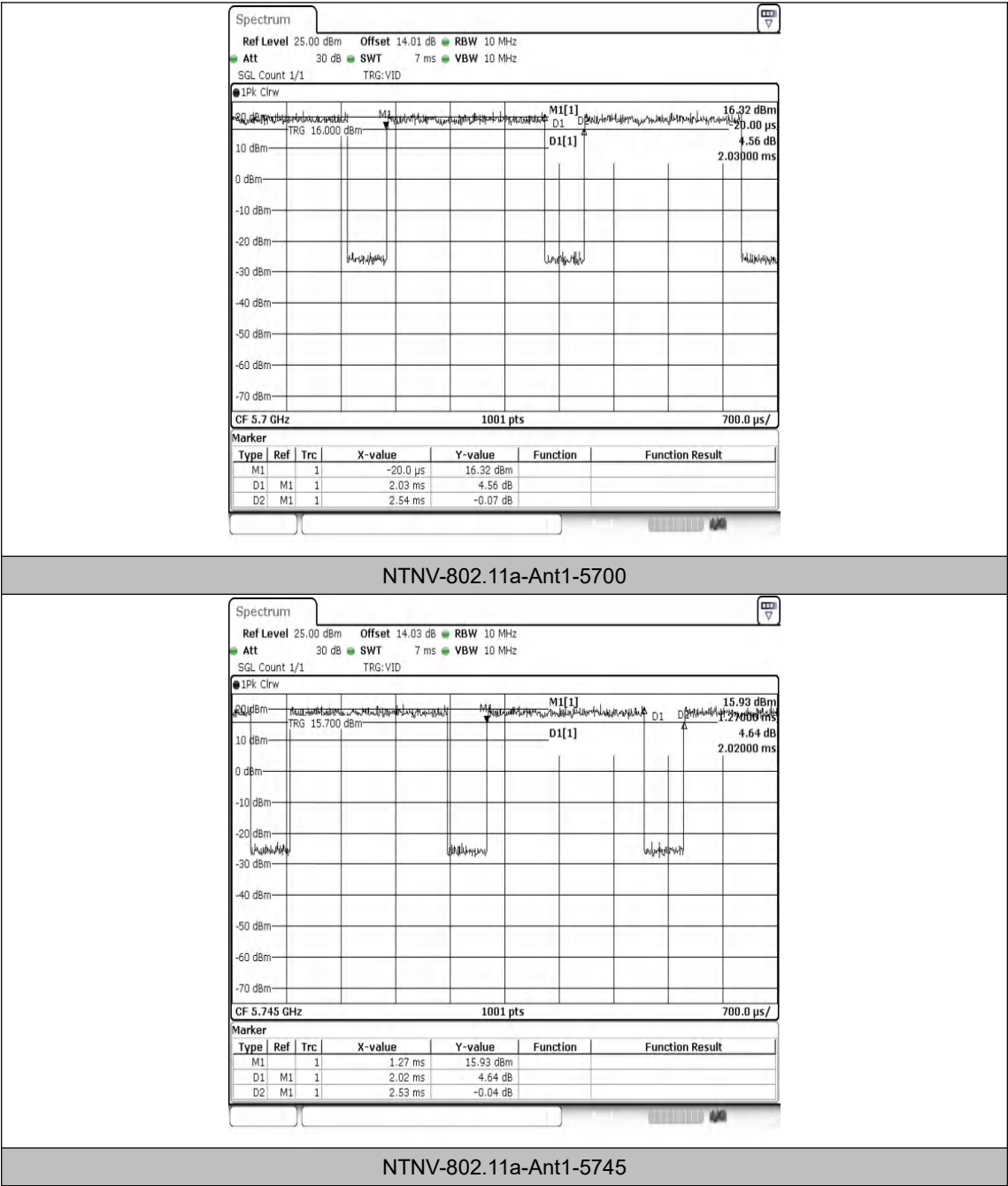


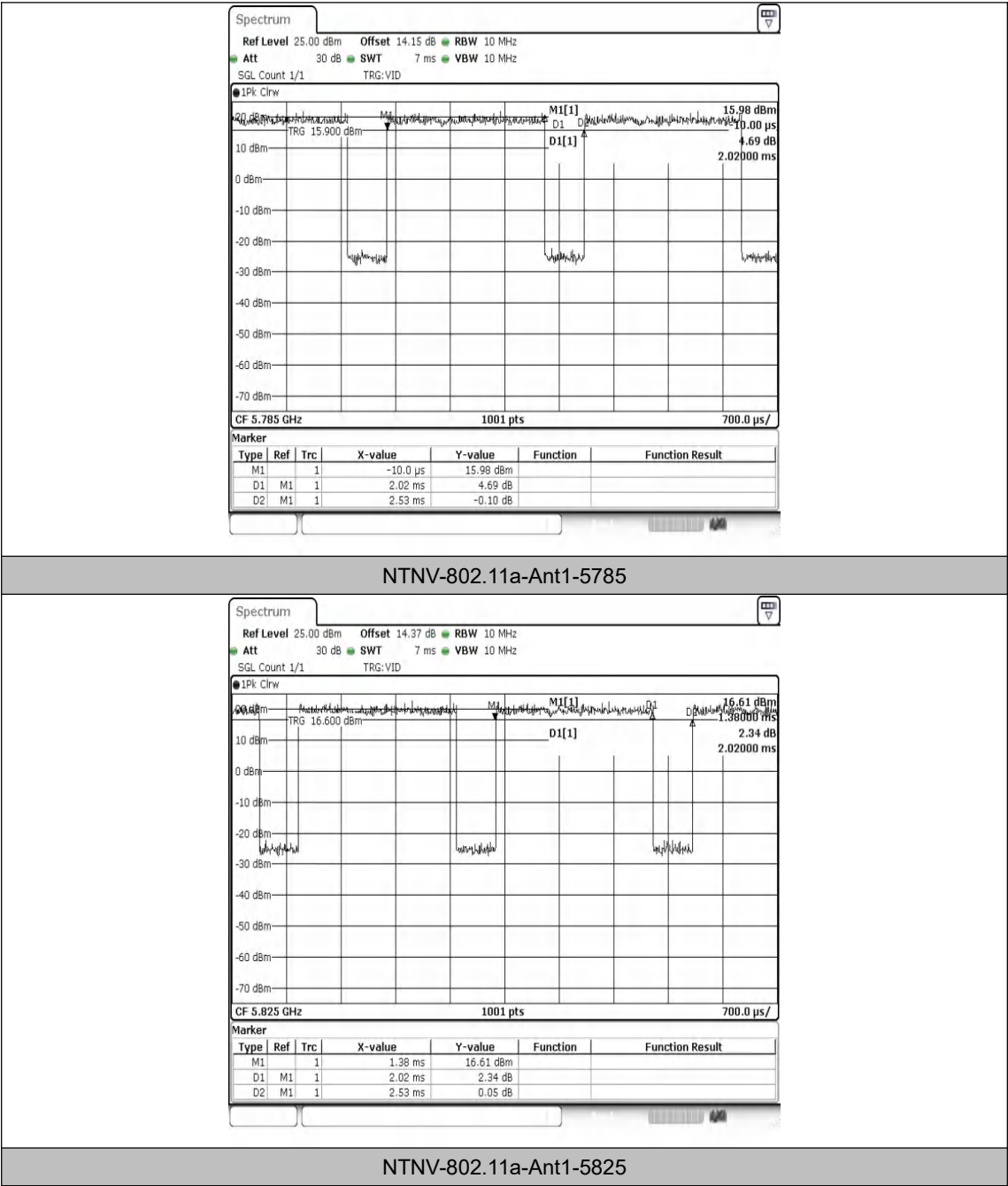
NTNV-802.11a-Ant1-5500

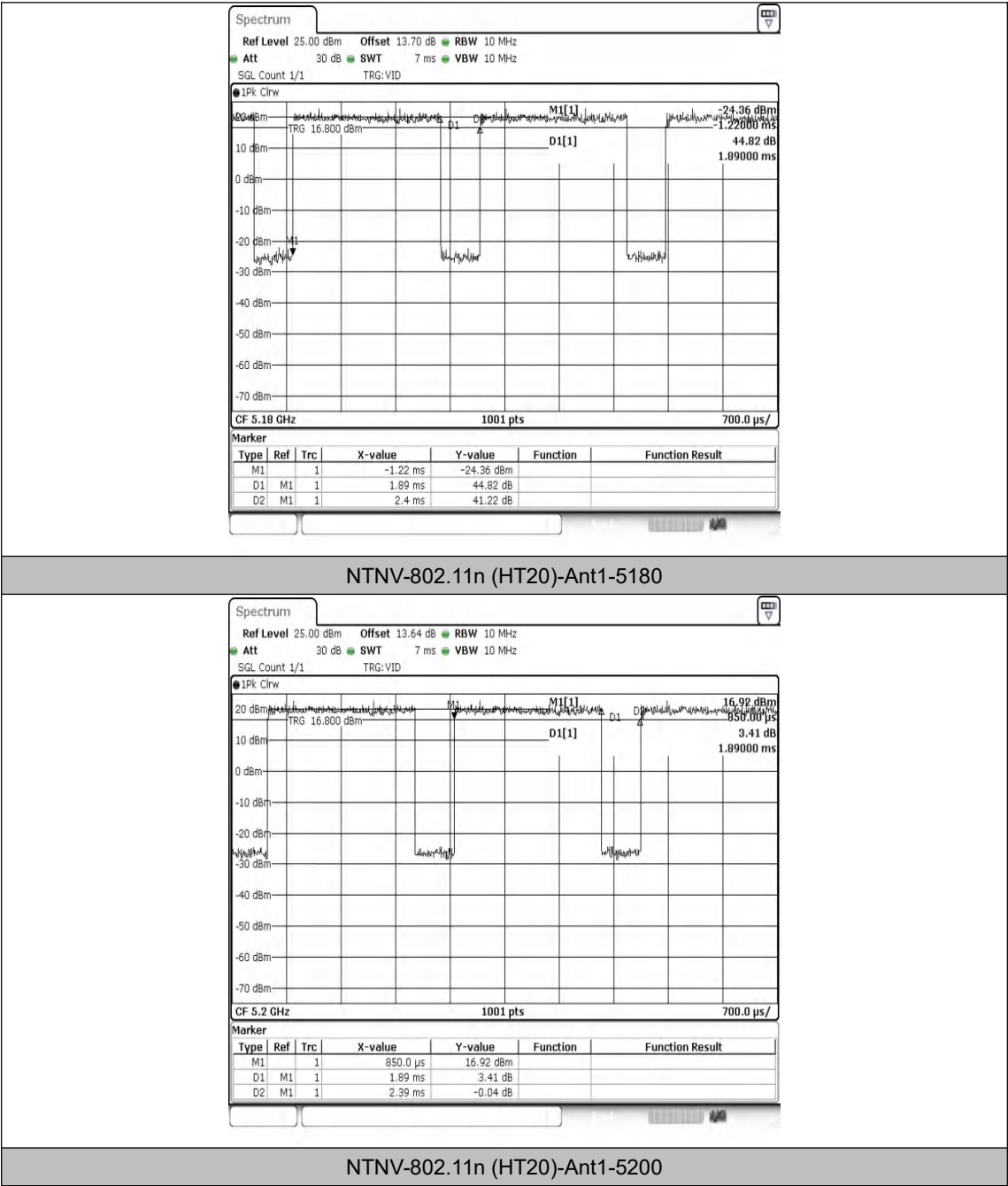


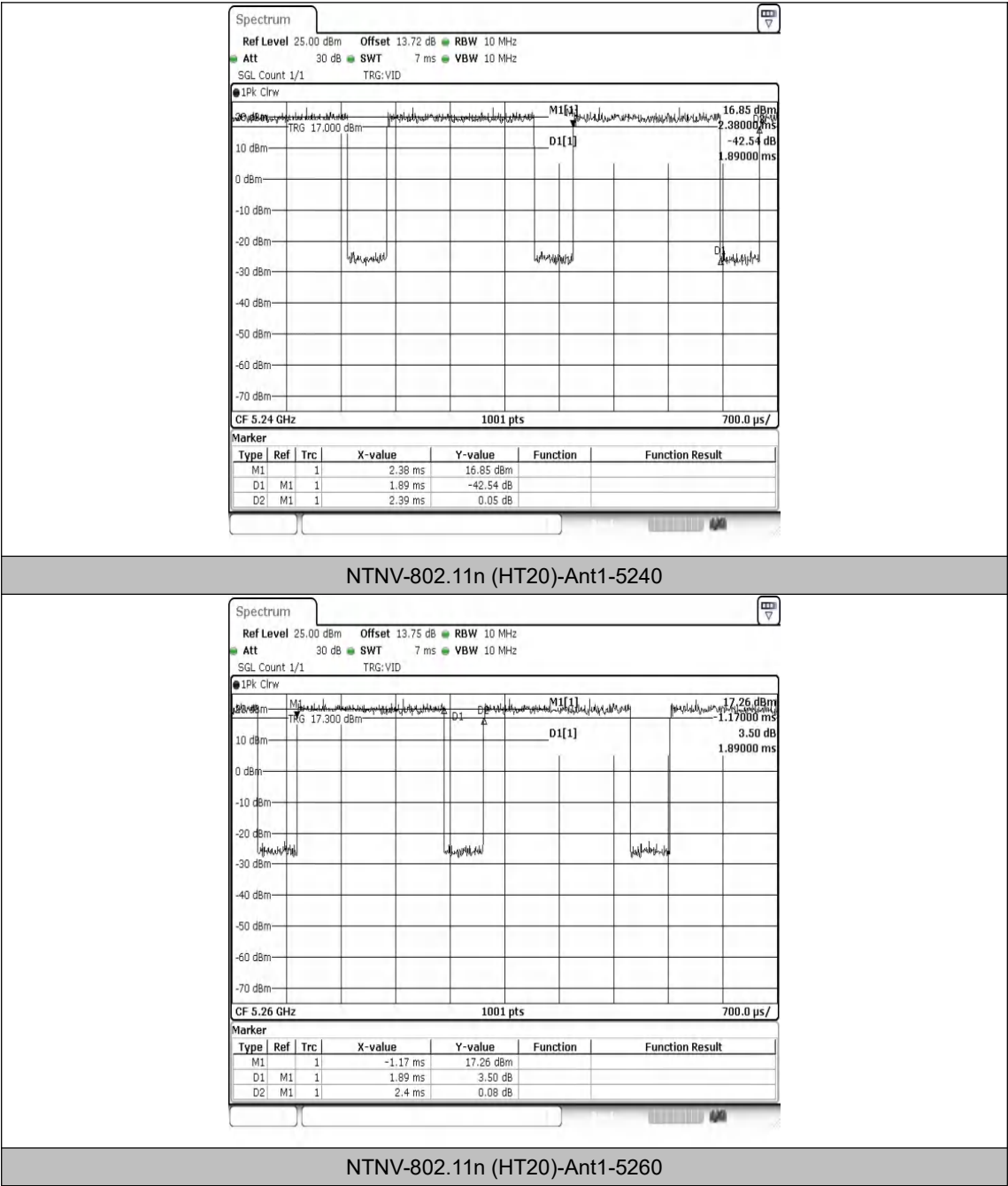
NTNV-802.11a-Ant1-5580

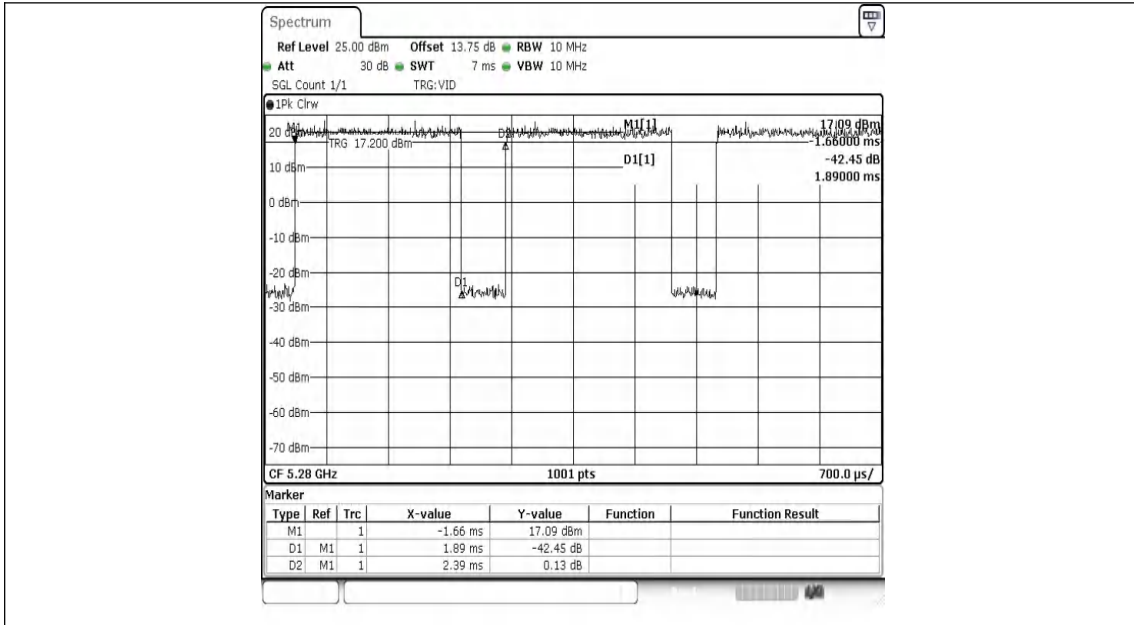




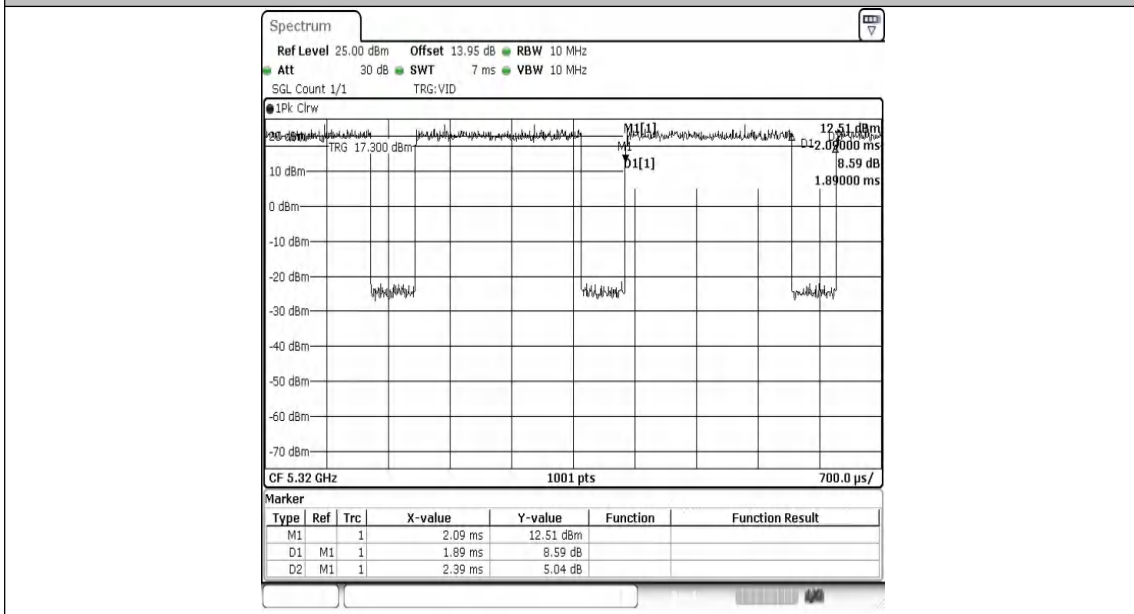






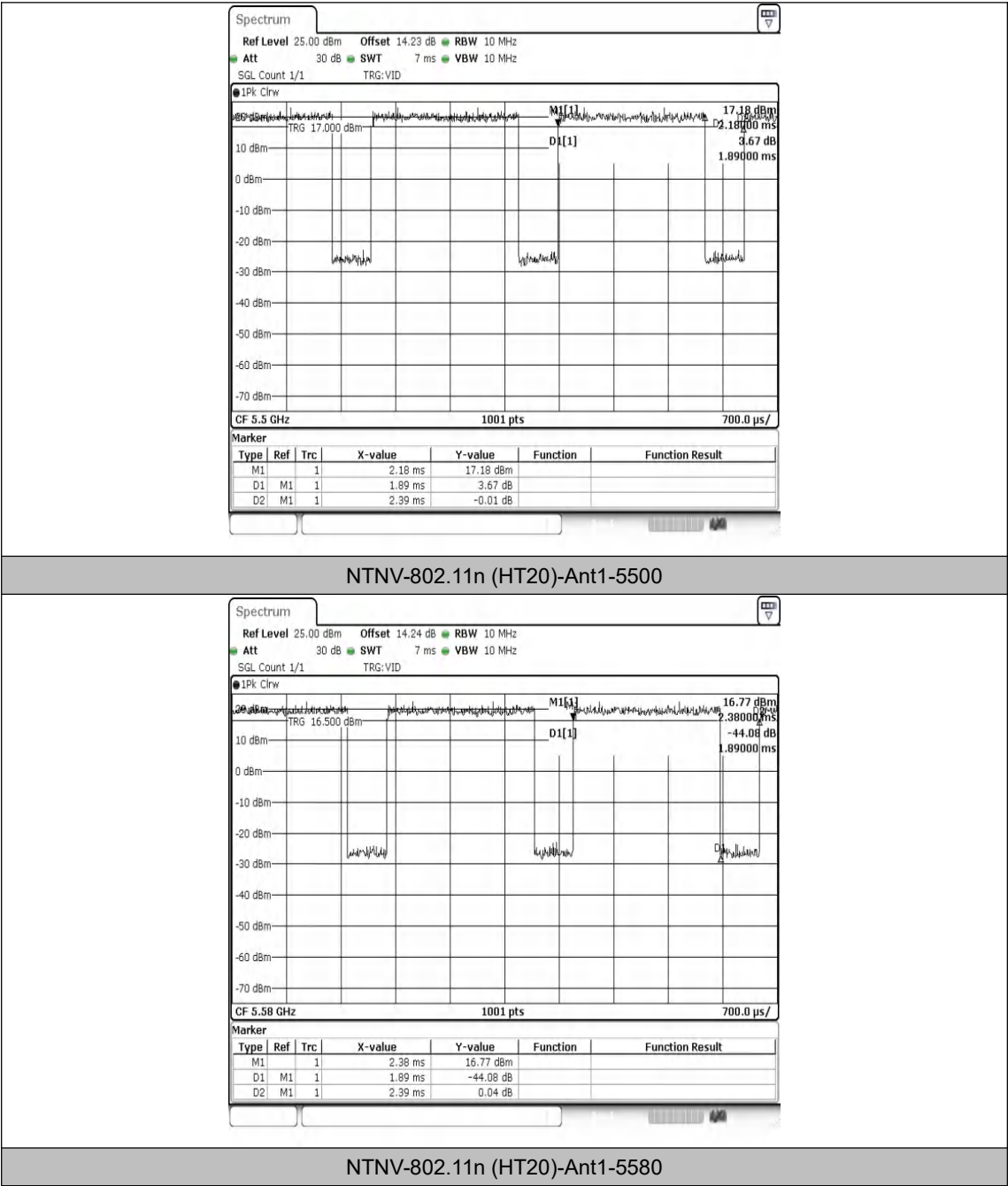


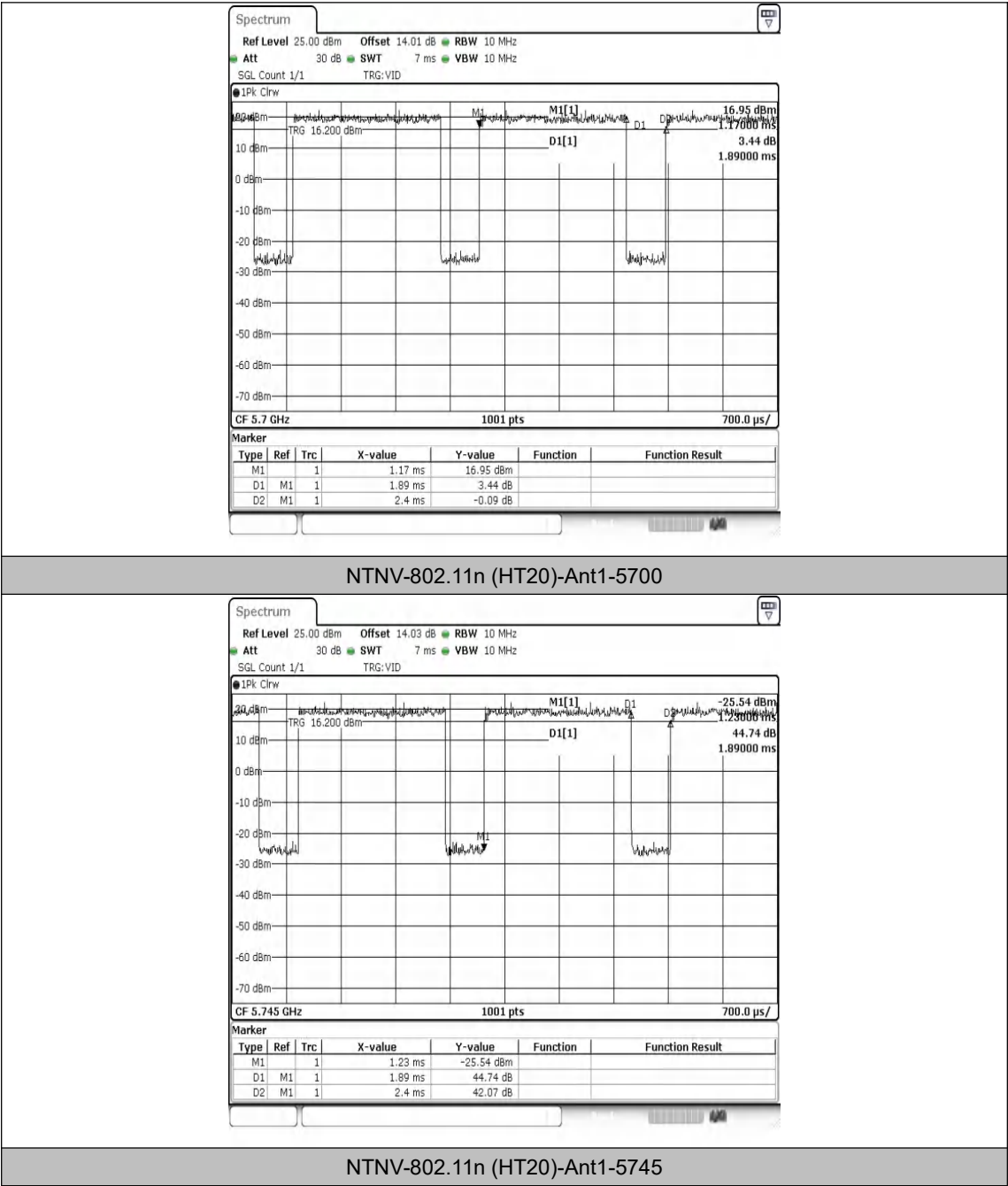
NTNV-802.11n (HT20)-Ant1-5280

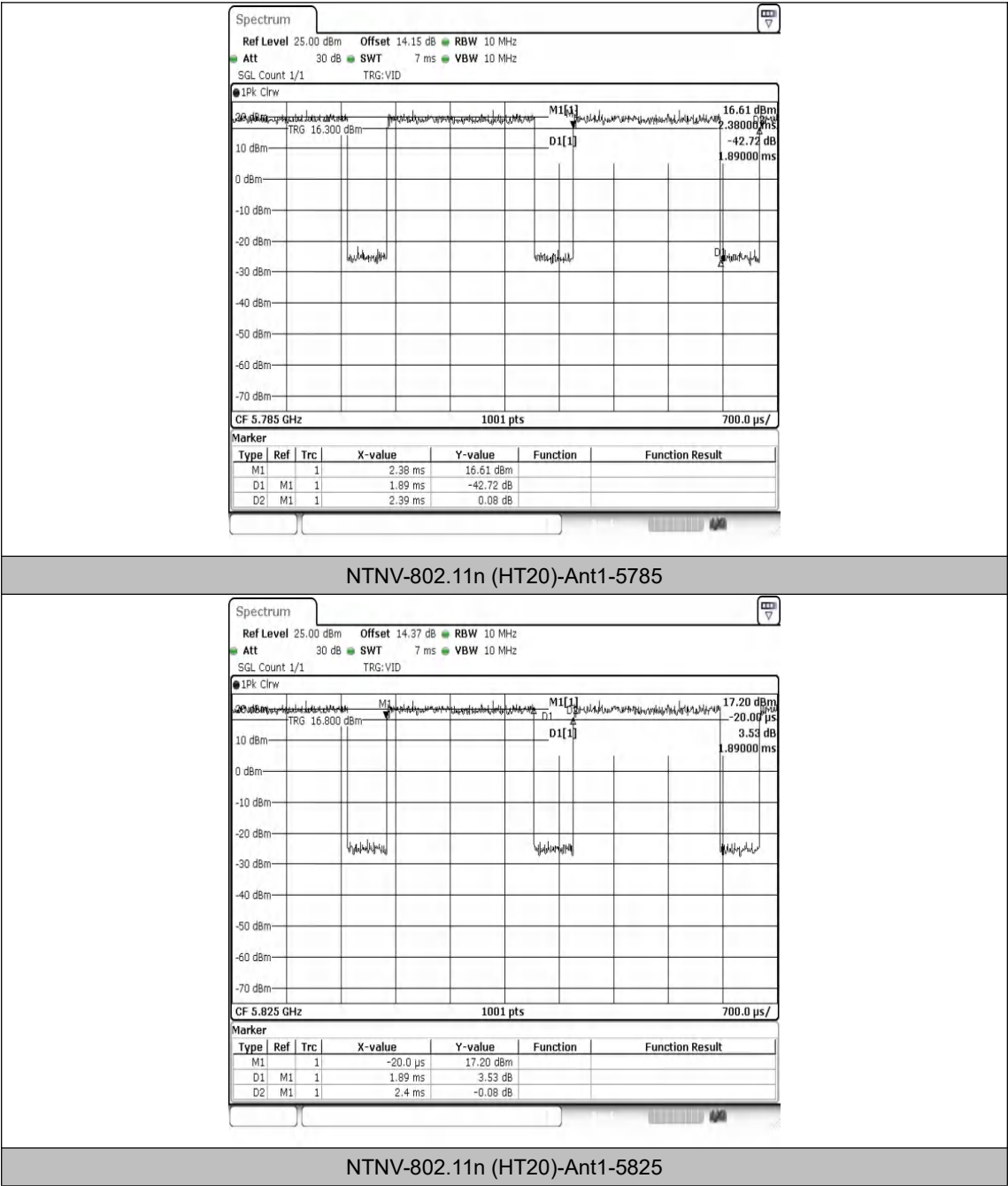


NTNV-802.11n (HT20)-Ant1-5320









Appendix C: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
802.11a	Ant1	5180	13.61	80.24	0.96	14.57	≤23.98	PASS
802.11a	Ant1	5200	13.63	80.24	0.96	14.59	≤23.98	PASS
802.11a	Ant1	5240	13.74	80.16	0.96	14.70	≤23.98	PASS
802.11a	Ant1	5260	14.00	79.92	0.97	14.97	≤23.80	PASS
802.11a	Ant1	5280	13.94	79.92	0.97	14.91	≤23.80	PASS
802.11a	Ant1	5320	14.27	80.24	0.96	15.23	≤23.85	PASS
802.11a	Ant1	5500	13.89	80.24	0.96	14.85	≤23.79	PASS
802.11a	Ant1	5580	13.57	79.84	0.98	14.55	≤23.93	PASS
802.11a	Ant1	5700	13.60	79.92	0.97	14.57	≤23.90	PASS
802.11a	Ant1	5745	13.23	79.84	0.98	14.21	≤30.00	PASS
802.11a	Ant1	5785	13.28	79.84	0.98	14.26	≤30.00	PASS
802.11a	Ant1	5825	13.83	79.84	0.98	14.81	≤30.00	PASS
802.11n (HT20)	Ant1	5180	14.00	78.75	1.04	15.04	≤23.98	PASS
802.11n (HT20)	Ant1	5200	13.96	79.08	1.02	14.98	≤23.98	PASS
802.11n (HT20)	Ant1	5240	14.02	79.08	1.02	15.04	≤23.98	PASS
802.11n (HT20)	Ant1	5260	14.33	78.75	1.04	15.37	≤23.98	PASS
802.11n (HT20)	Ant1	5280	14.27	79.08	1.02	15.29	≤23.98	PASS
802.11n (HT20)	Ant1	5320	14.57	79.08	1.02	15.59	≤23.90	PASS
802.11n (HT20)	Ant1	5500	14.22	79.08	1.02	15.24	≤23.98	PASS
802.11n (HT20)	Ant1	5580	13.90	79.08	1.02	14.92	≤23.98	PASS
802.11n (HT20)	Ant1	5700	13.97	78.75	1.04	15.01	≤23.98	PASS
802.11n (HT20)	Ant1	5745	13.58	78.75	1.04	14.62	≤30.00	PASS
802.11n (HT20)	Ant1	5785	13.67	79.08	1.02	14.69	≤30.00	PASS

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802.11n (HT20)	Ant1	5825	14.15	78.75	1.04	15.19	≤30.00	PASS
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Note: 1. The cable loss are compensated in the graph.

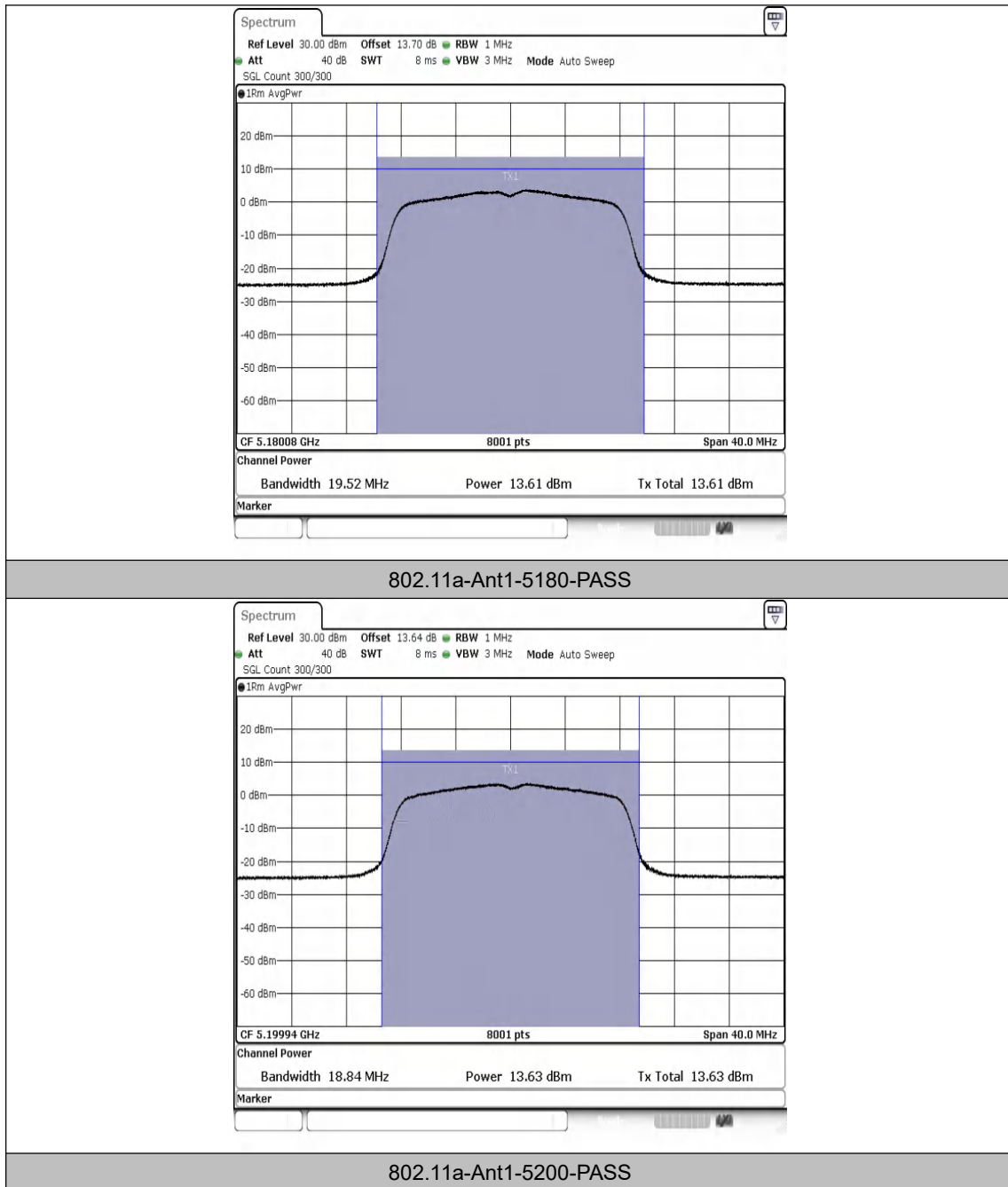
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Test Graphs Channel Power



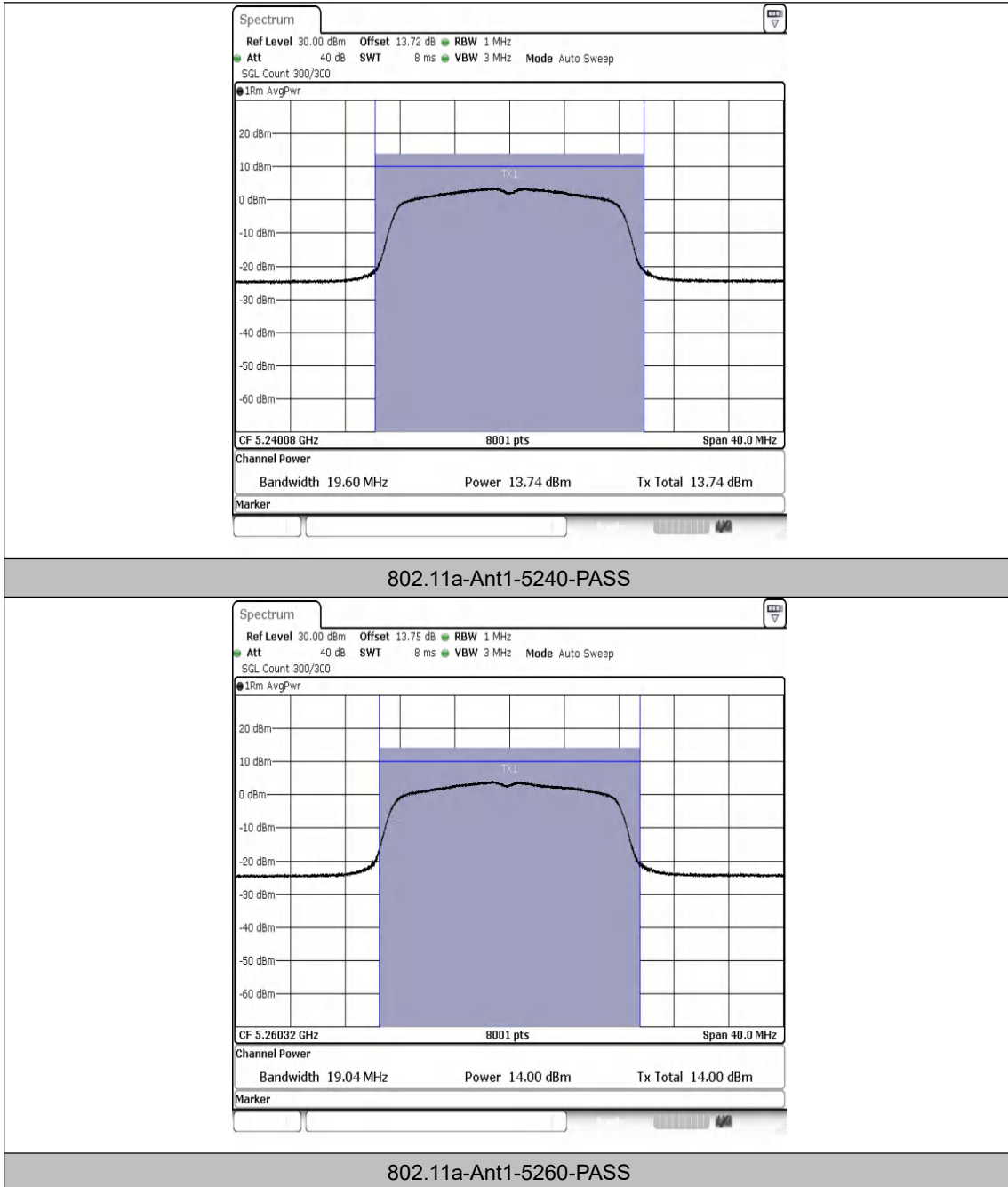
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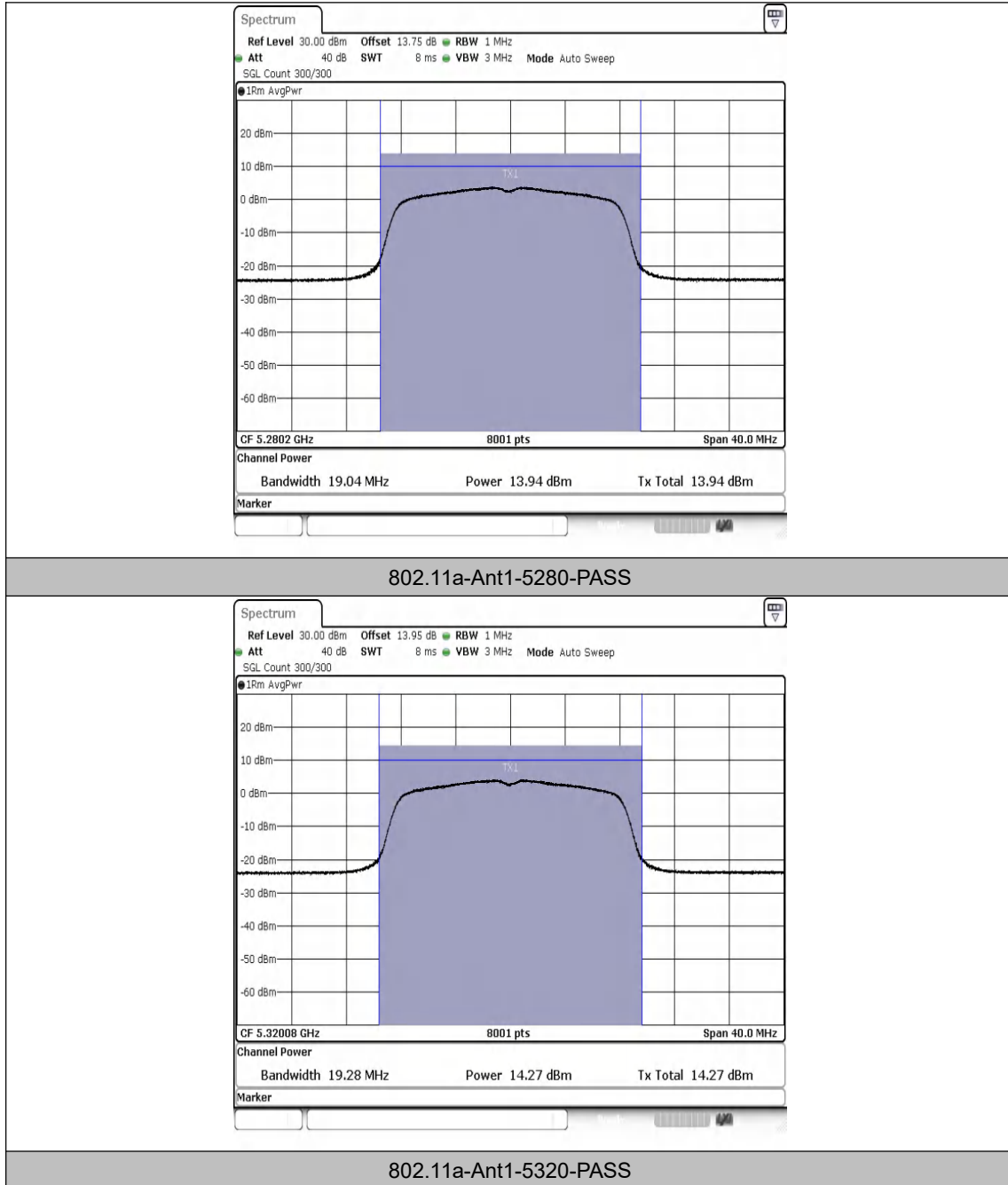


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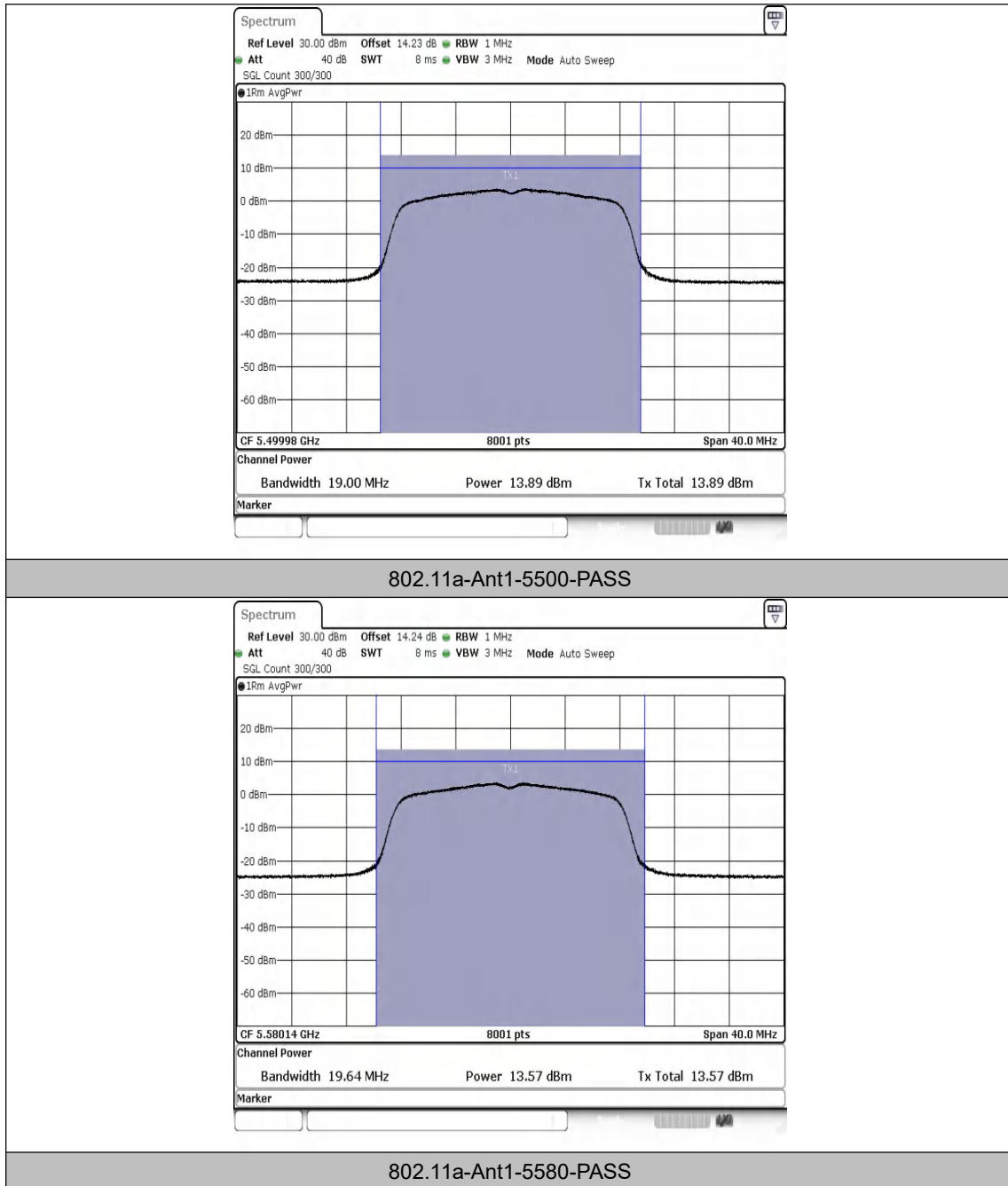


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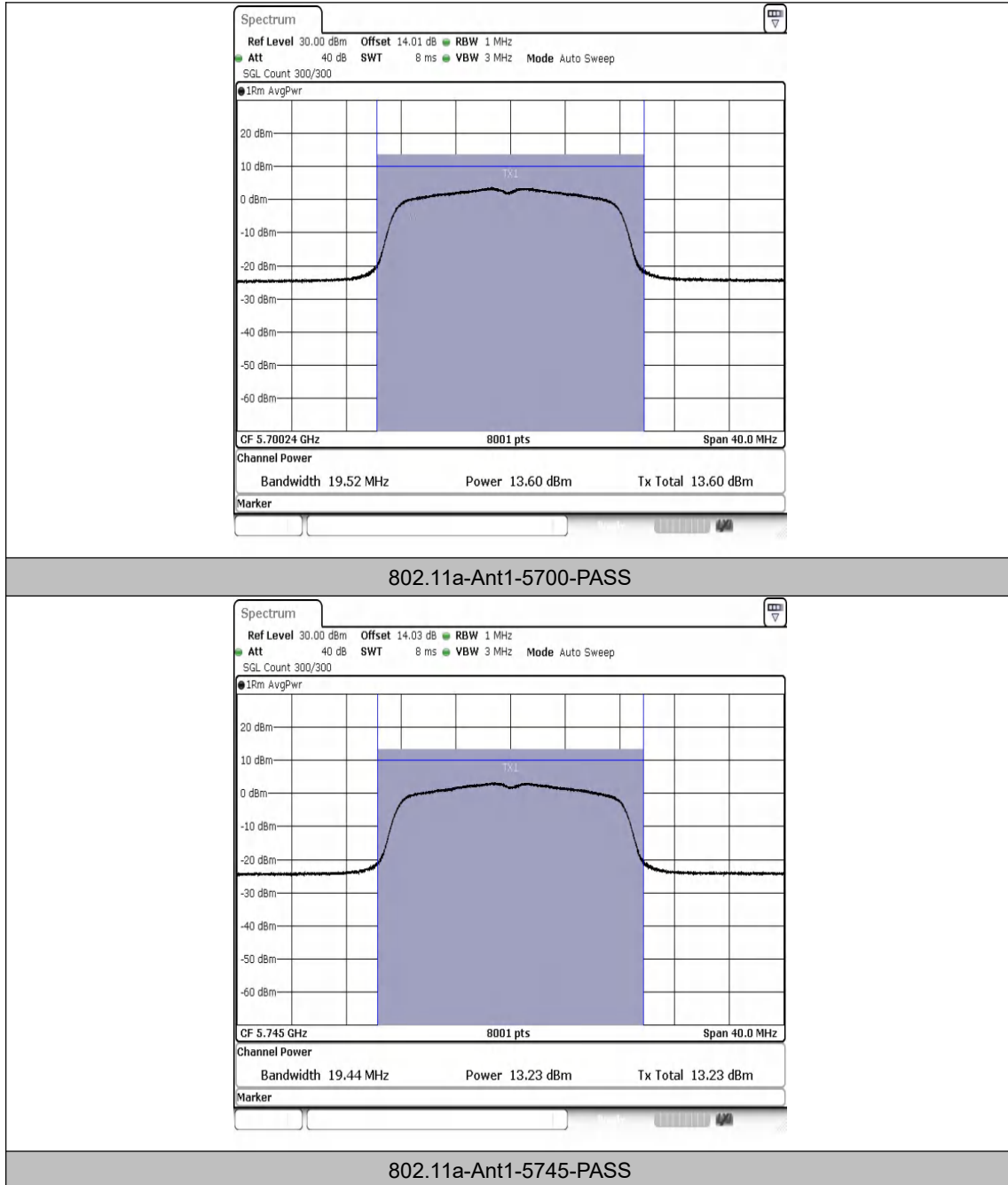


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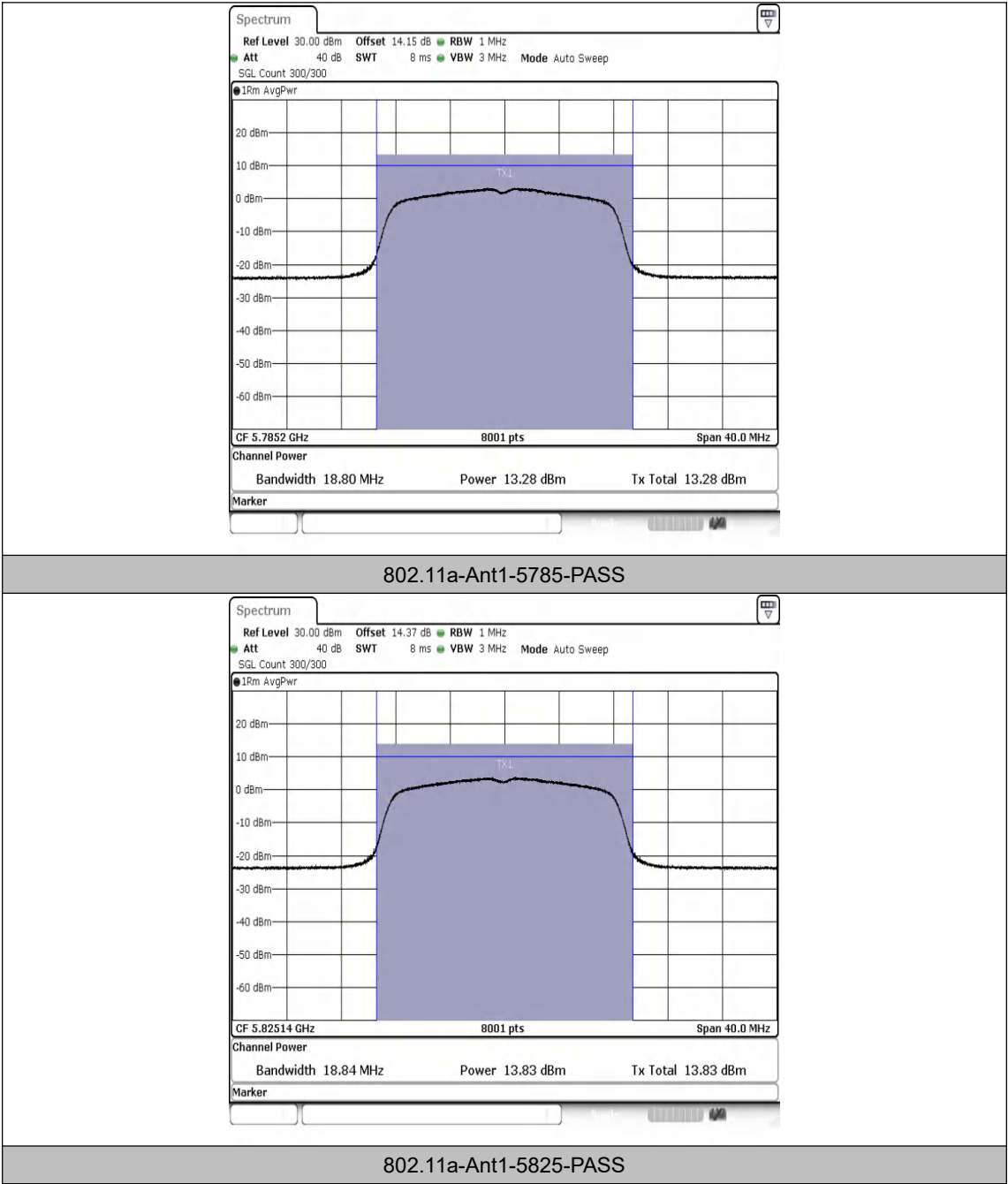
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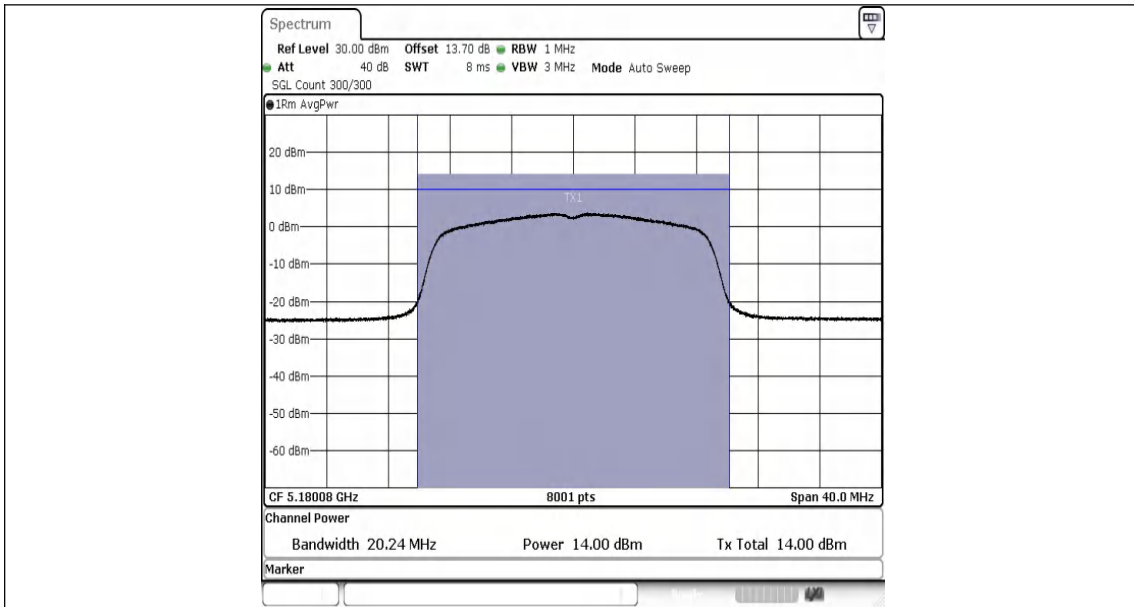
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
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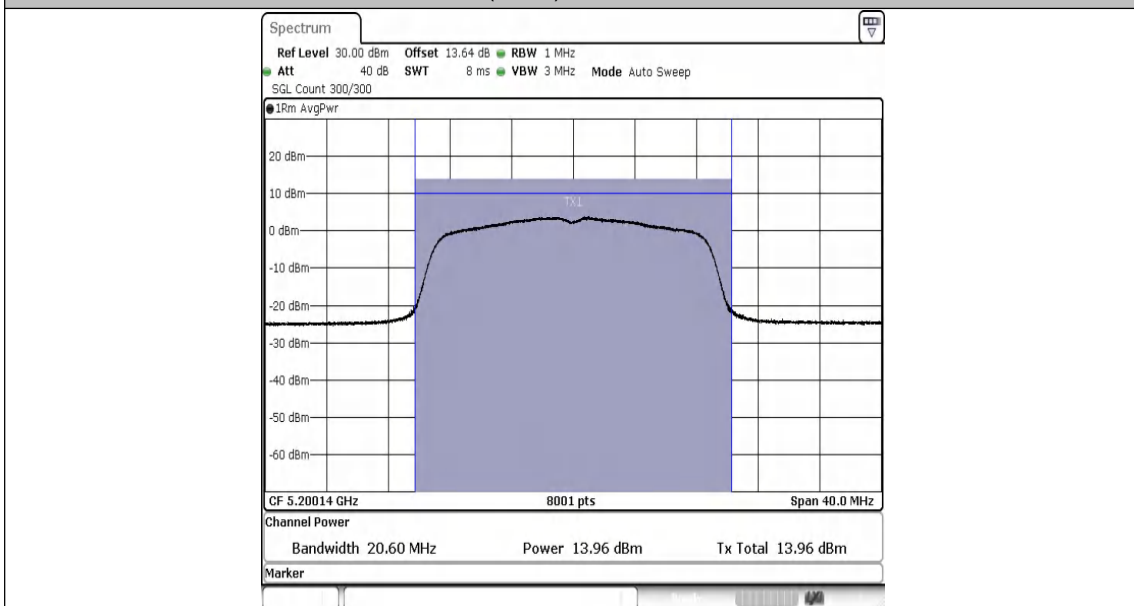
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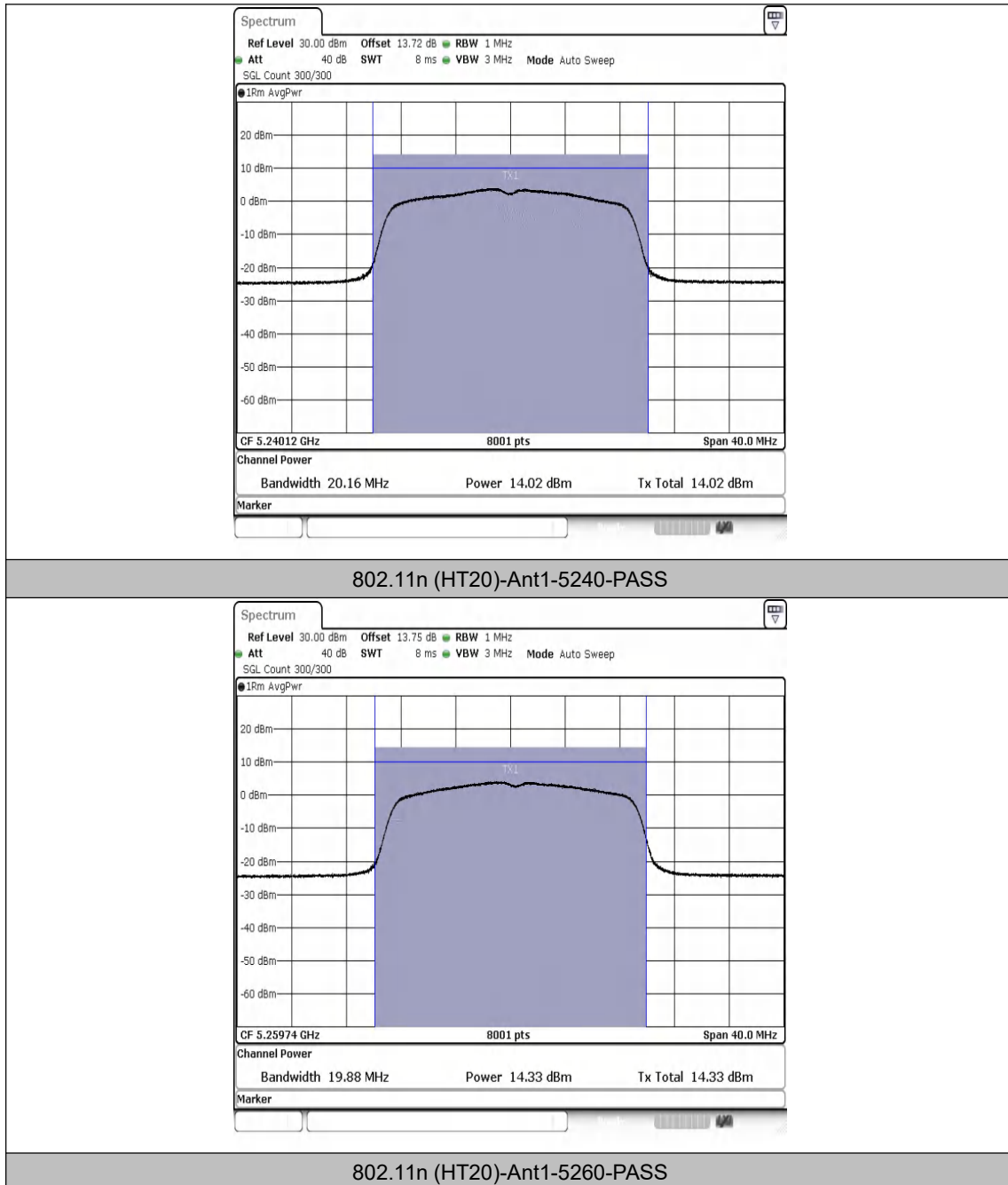


802.11n (HT20)-Ant1-5180-PASS



802.11n (HT20)-Ant1-5200-PASS



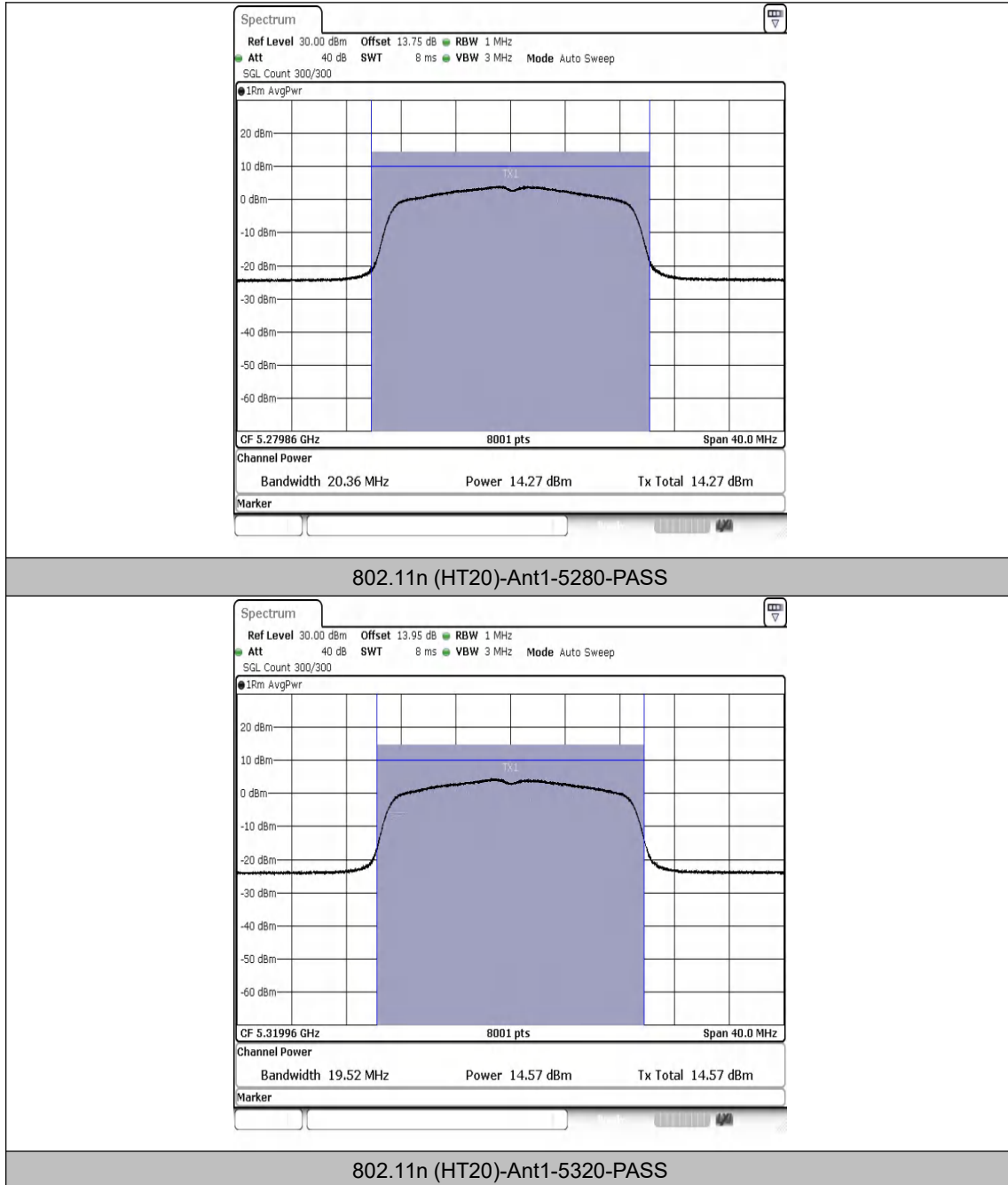


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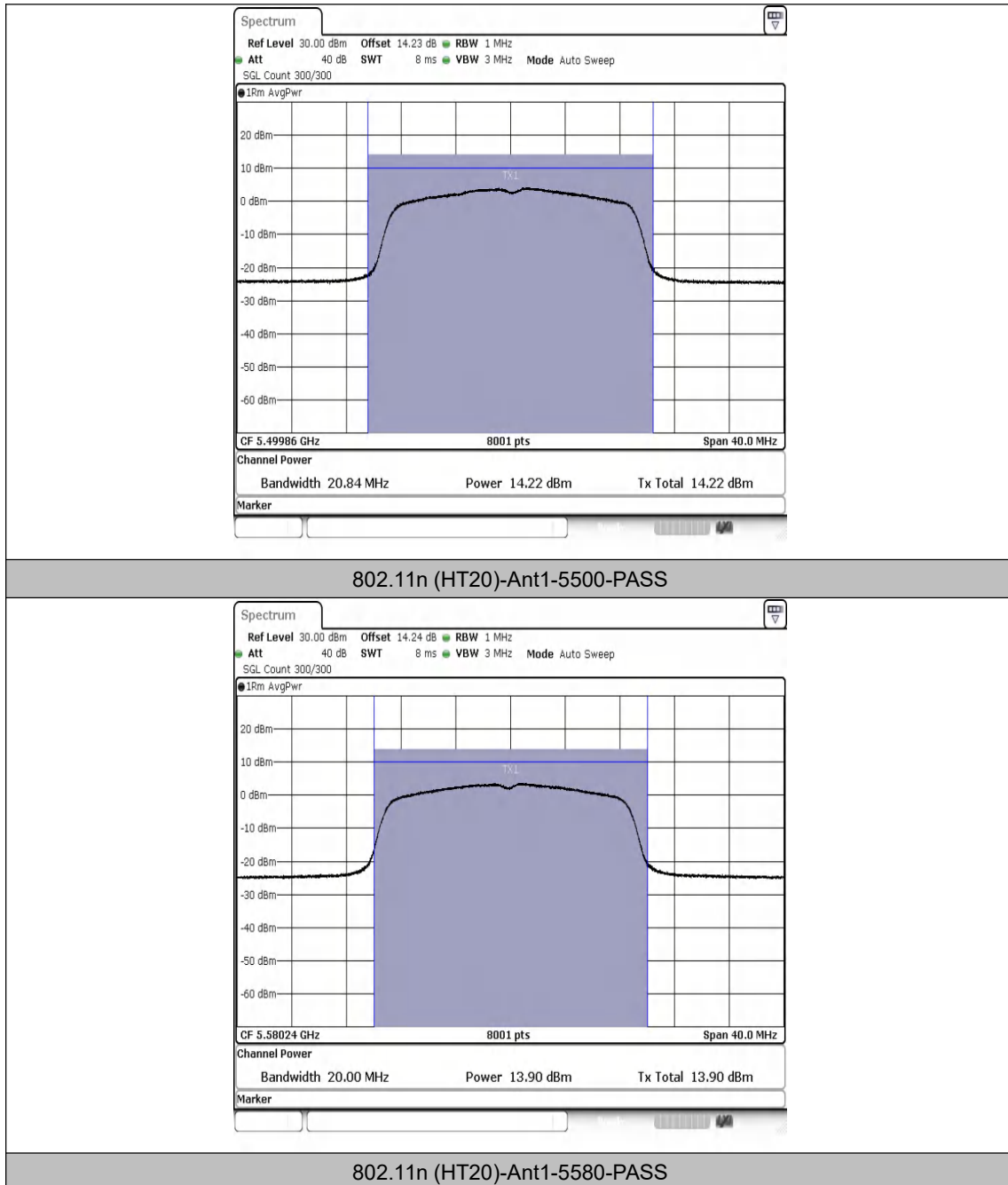


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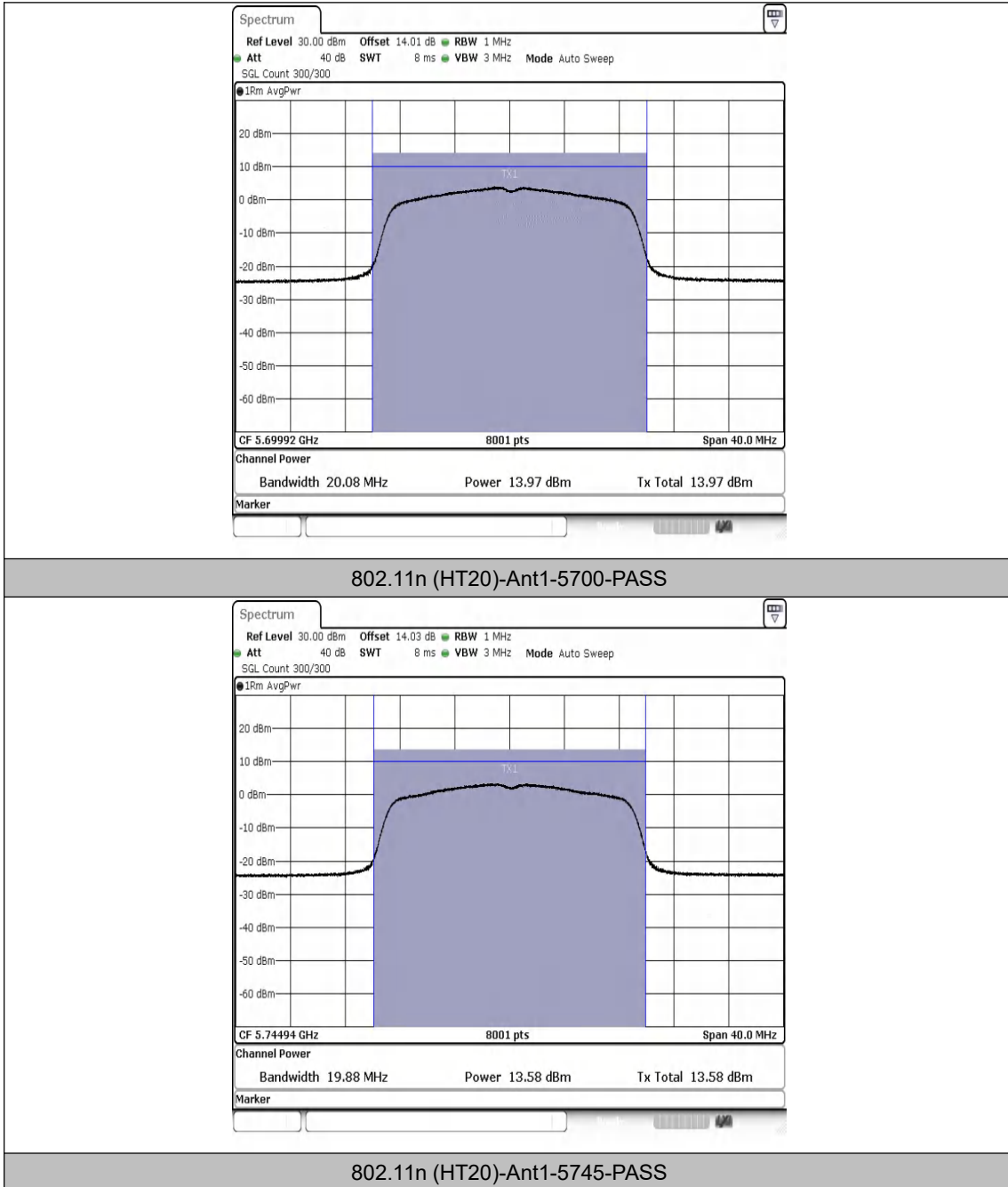


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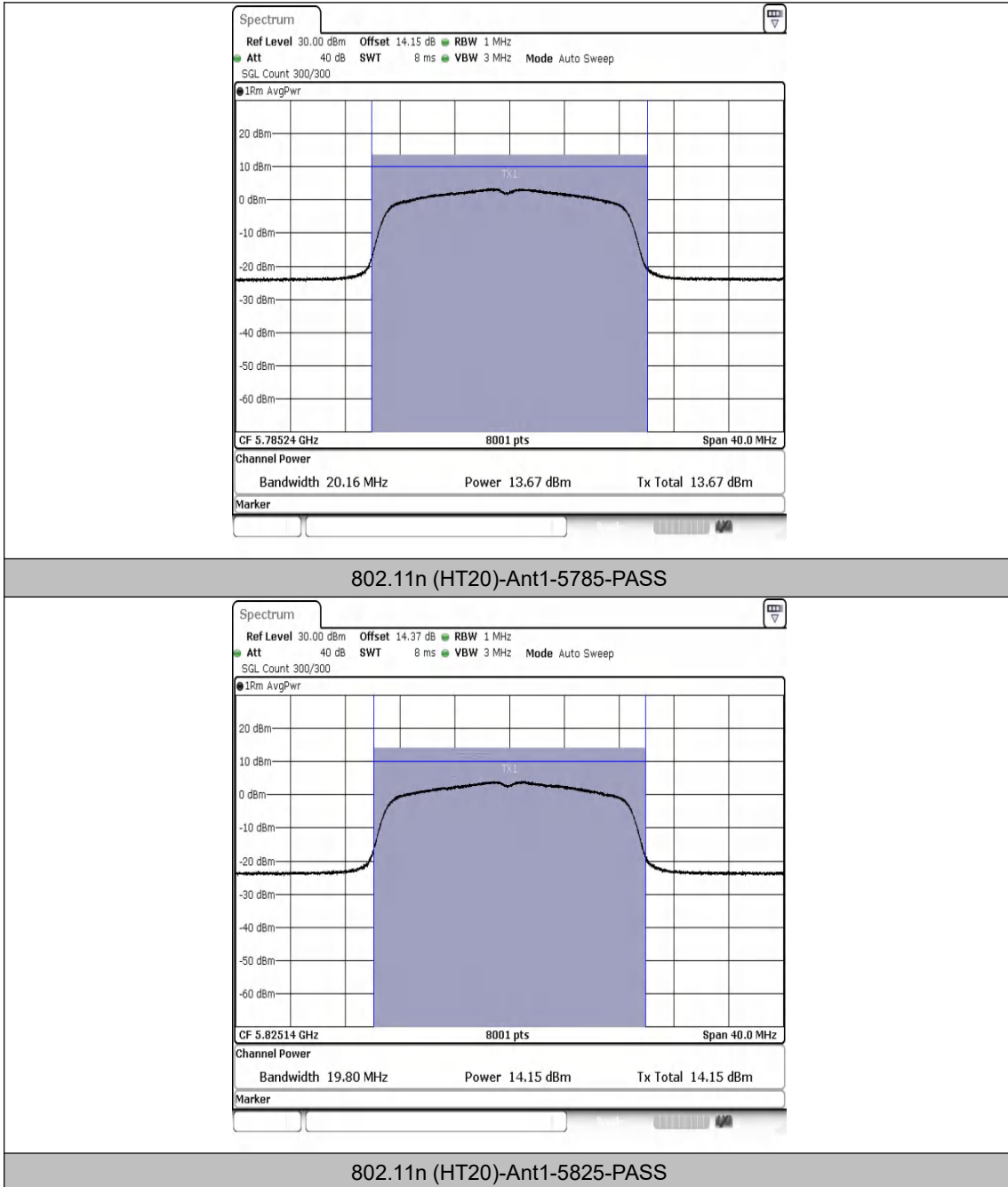


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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Reading Result[dBm/MHz]	DC Factor [dB]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
802.11a	Ant1	5180	2.93	0.96	3.89	≤11.00	PASS
802.11a	Ant1	5200	3.46	0.96	4.42	≤11.00	PASS
802.11a	Ant1	5240	3.99	0.96	4.95	≤11.00	PASS
802.11a	Ant1	5260	3.62	0.97	4.59	≤11.00	PASS
802.11a	Ant1	5280	4.68	0.97	5.65	≤11.00	PASS
802.11a	Ant1	5320	3.80	0.96	4.76	≤11.00	PASS
802.11a	Ant1	5500	3.89	0.96	4.85	≤11.00	PASS
802.11a	Ant1	5580	3.67	0.98	4.65	≤11.00	PASS
802.11a	Ant1	5700	3.22	0.97	4.19	≤11.00	PASS
TestMode	Antenna	Frequency[MHz]	Reading Result[dBm/500K Hz]	DC Factor [dB]	Result [dBm/500K Hz]	Limit[dBm/500K Hz]	Verdict
802.11a	Ant1	5745	2.95	0.98	3.93	≤30.00	PASS
802.11a	Ant1	5785	3.35	0.98	4.33	≤30.00	PASS
802.11a	Ant1	5825	3.62	0.98	4.60	≤30.00	PASS
TestMode	Antenna	Frequency[MHz]	Reading Result[dBm/MHz]	DC Factor [dB]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
802.11n (HT20)	Ant1	5180	3.74	1.04	4.78	≤11.00	PASS
802.11n (HT20)	Ant1	5200	3.67	1.02	4.69	≤11.00	PASS
802.11n (HT20)	Ant1	5240	3.77	1.02	4.79	≤11.00	PASS
802.11n (HT20)	Ant1	5260	4.55	1.04	5.59	≤11.00	PASS
802.11n (HT20)	Ant1	5280	3.98	1.02	5.00	≤11.00	PASS
802.11n (HT20)	Ant1	5320	4.94	1.02	5.96	≤11.00	PASS
802.11n (HT20)	Ant1	5500	3.93	1.02	4.95	≤11.00	PASS
802.11n (HT20)	Ant1	5580	3.82	1.02	4.84	≤11.00	PASS
802.11n (HT20)	Ant1	5700	3.63	1.04	4.67	≤11.00	PASS

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TestMode	Antenna	Frequency[MHz]	Reading Result[dBm/500K Hz]	DC Factor [dB]	Result [dBm/500K Hz]	Limit[dBm/500K Hz]	Verdict
802.11n (HT20)	Ant1	5745	3.23	1.04	4.27	≤30.00	PASS
802.11n (HT20)	Ant1	5785	2.62	1.02	3.64	≤30.00	PASS
802.11n (HT20)	Ant1	5825	4.17	1.04	5.21	≤30.00	PASS

Note: 1. The cable loss are compensated in the graph.

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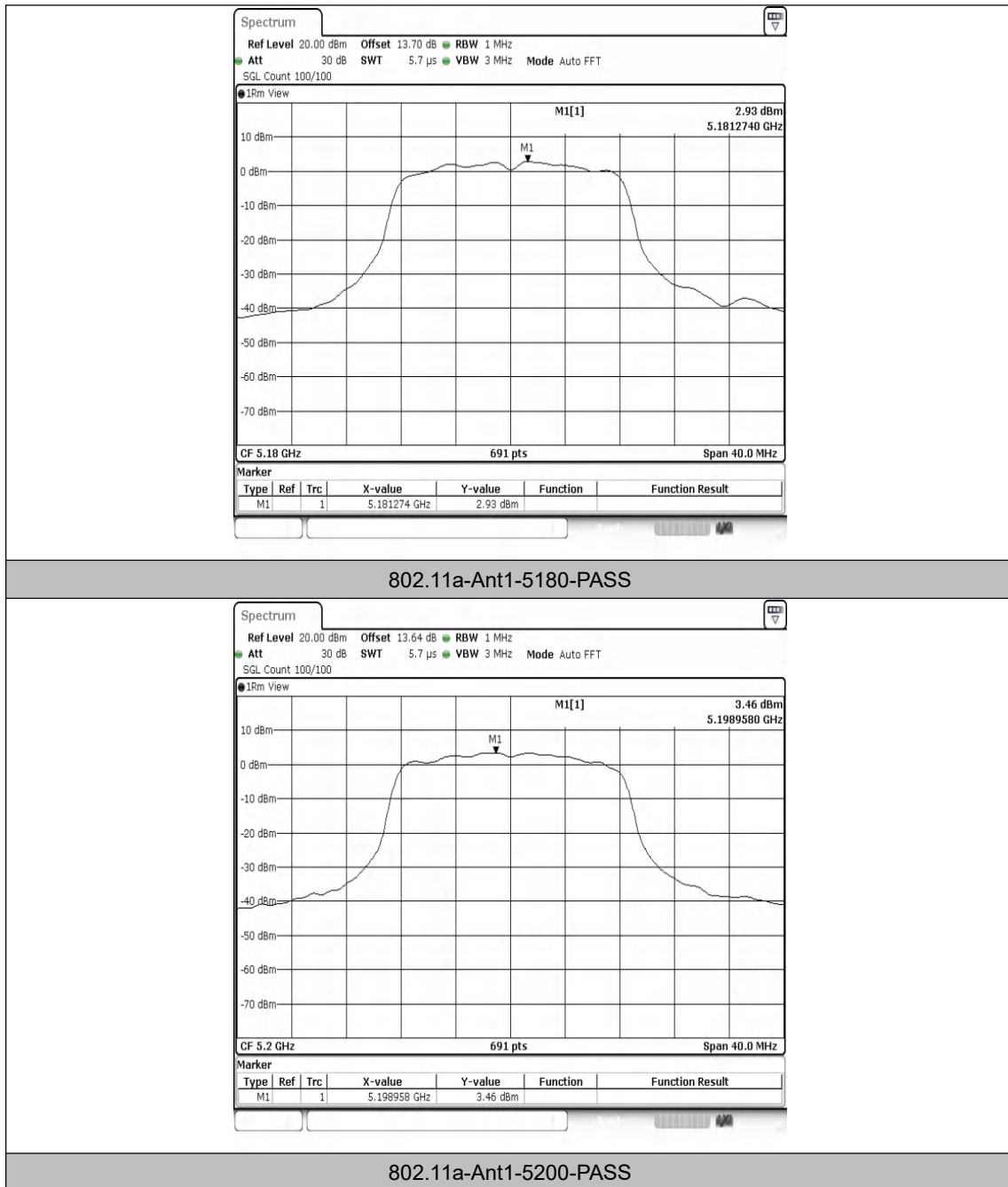
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
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Test Graphs

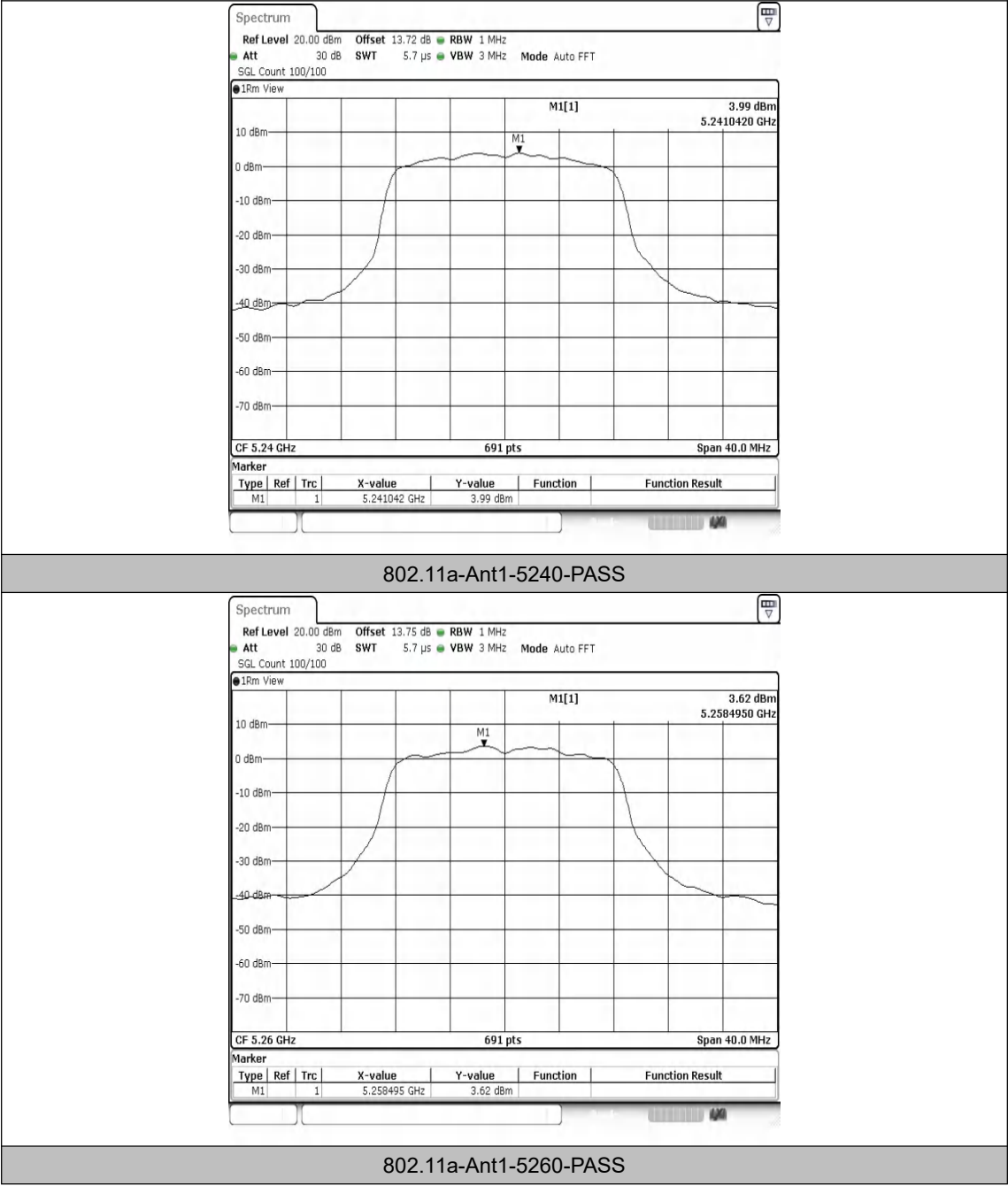


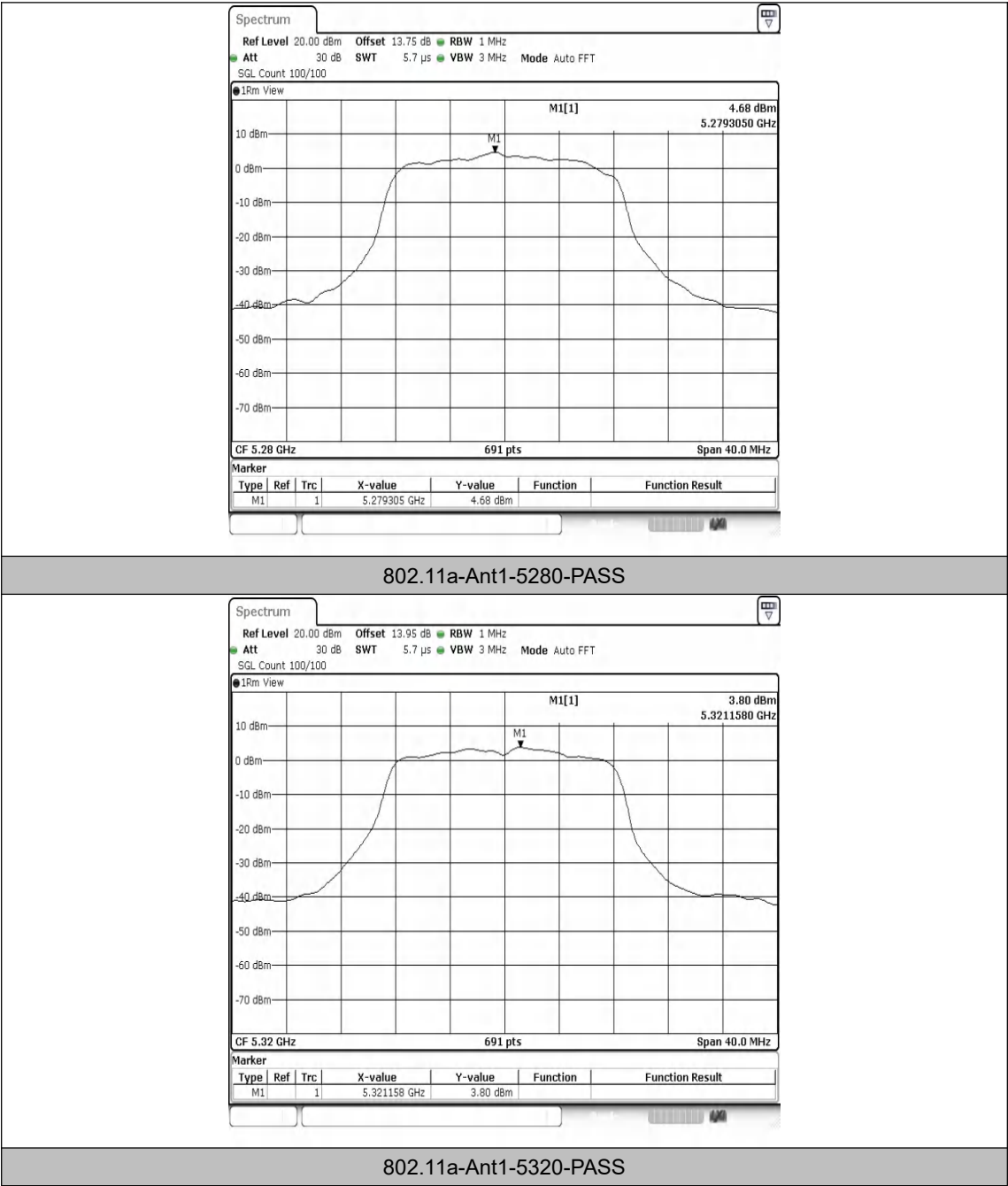
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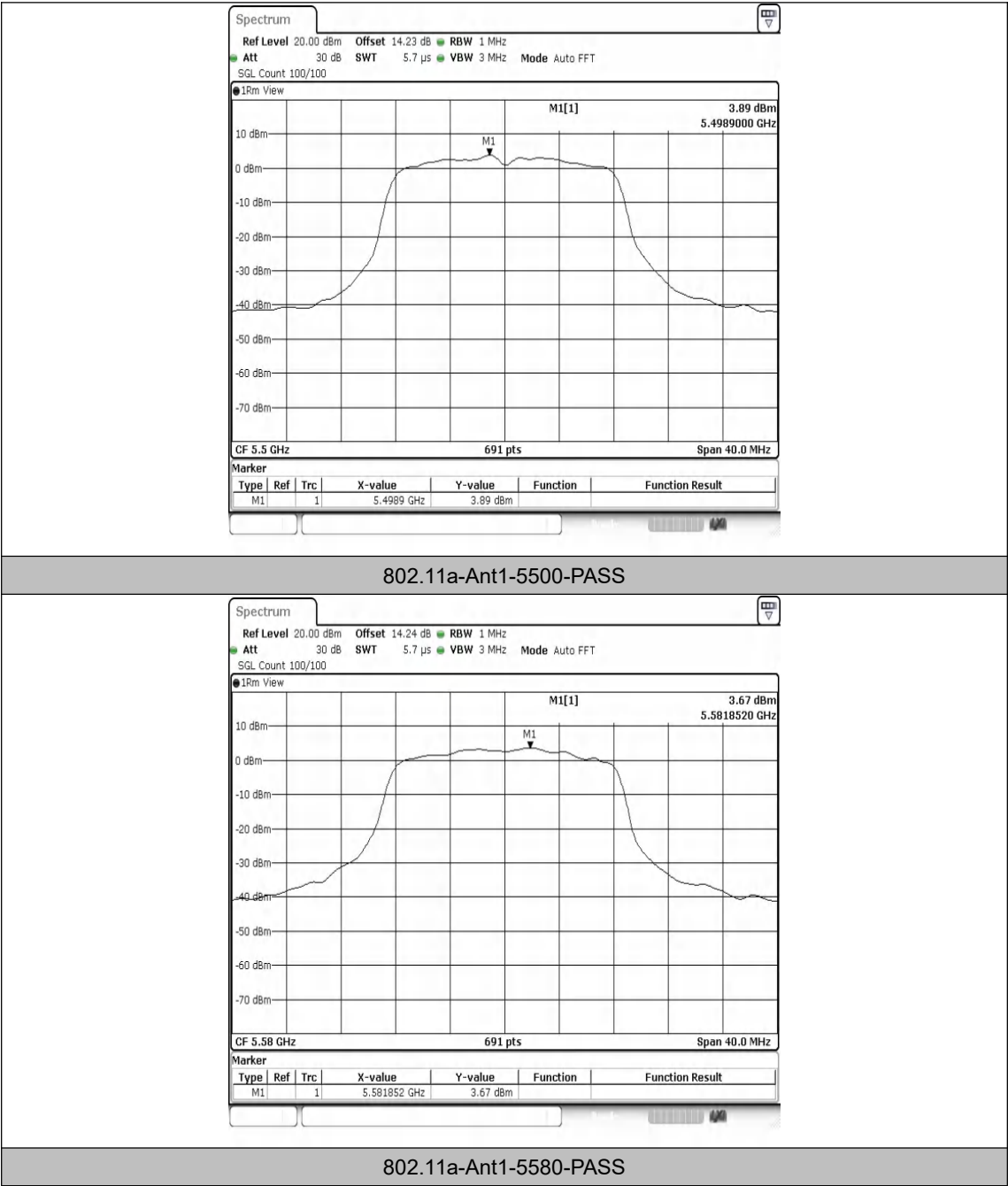
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
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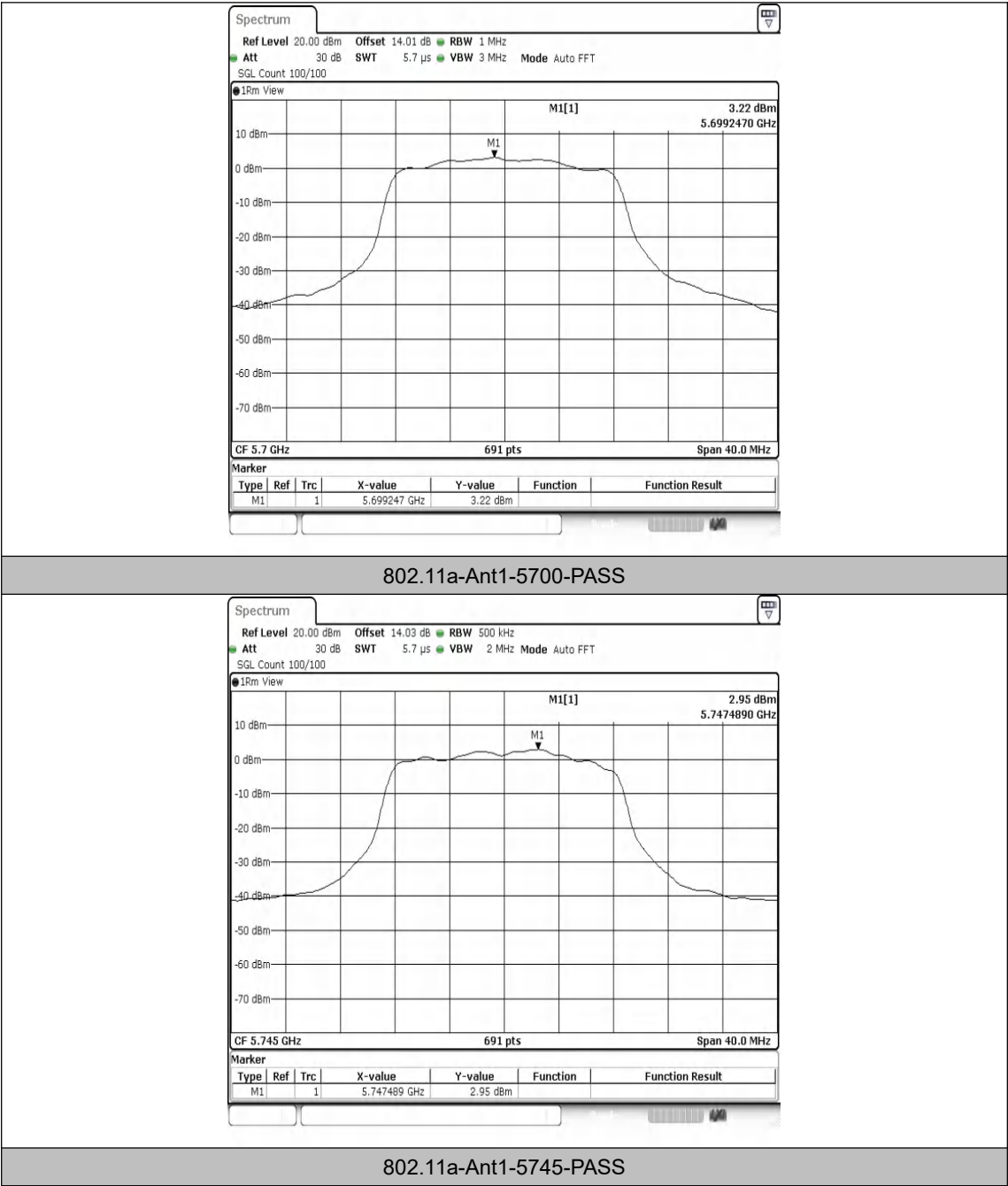
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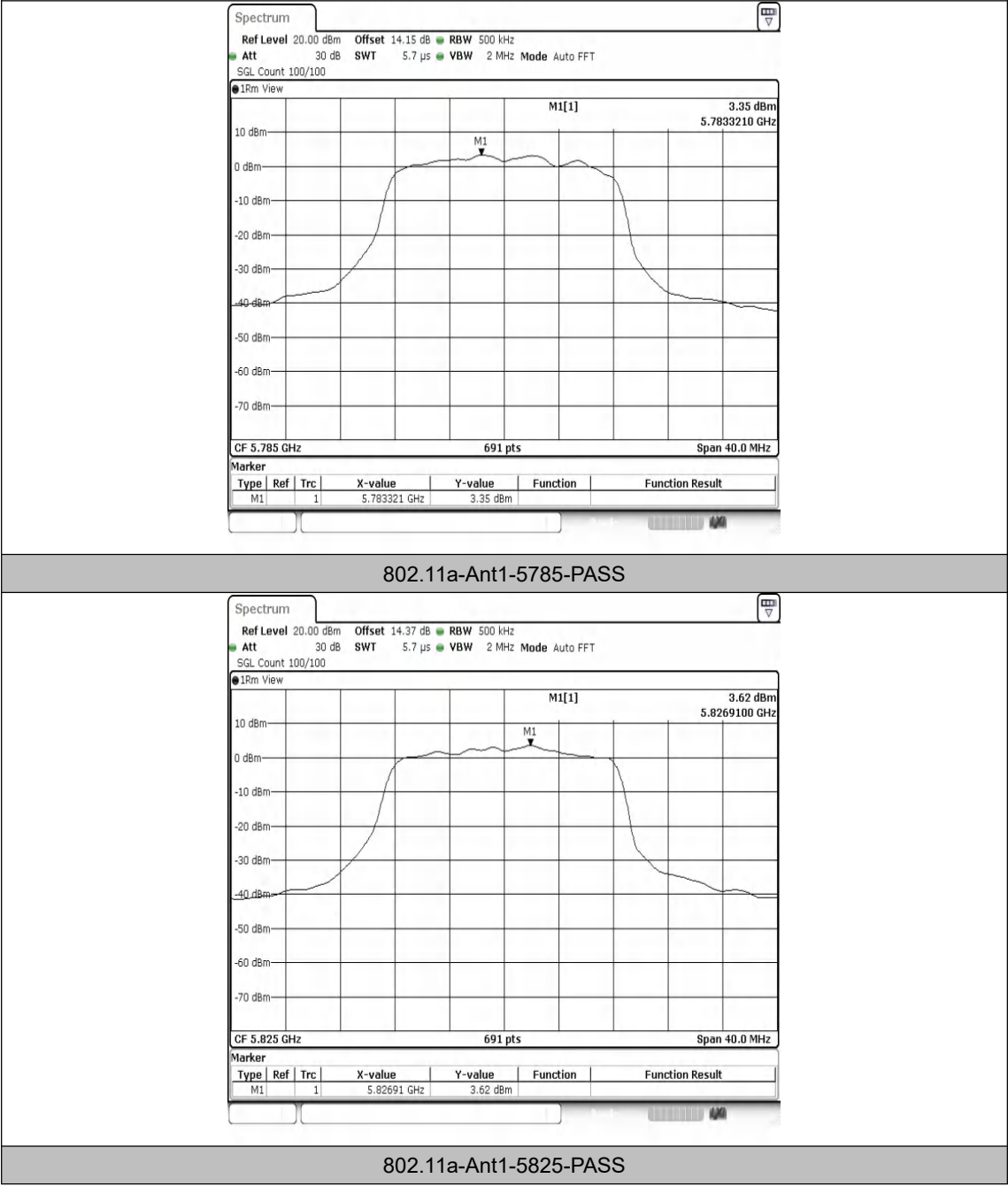


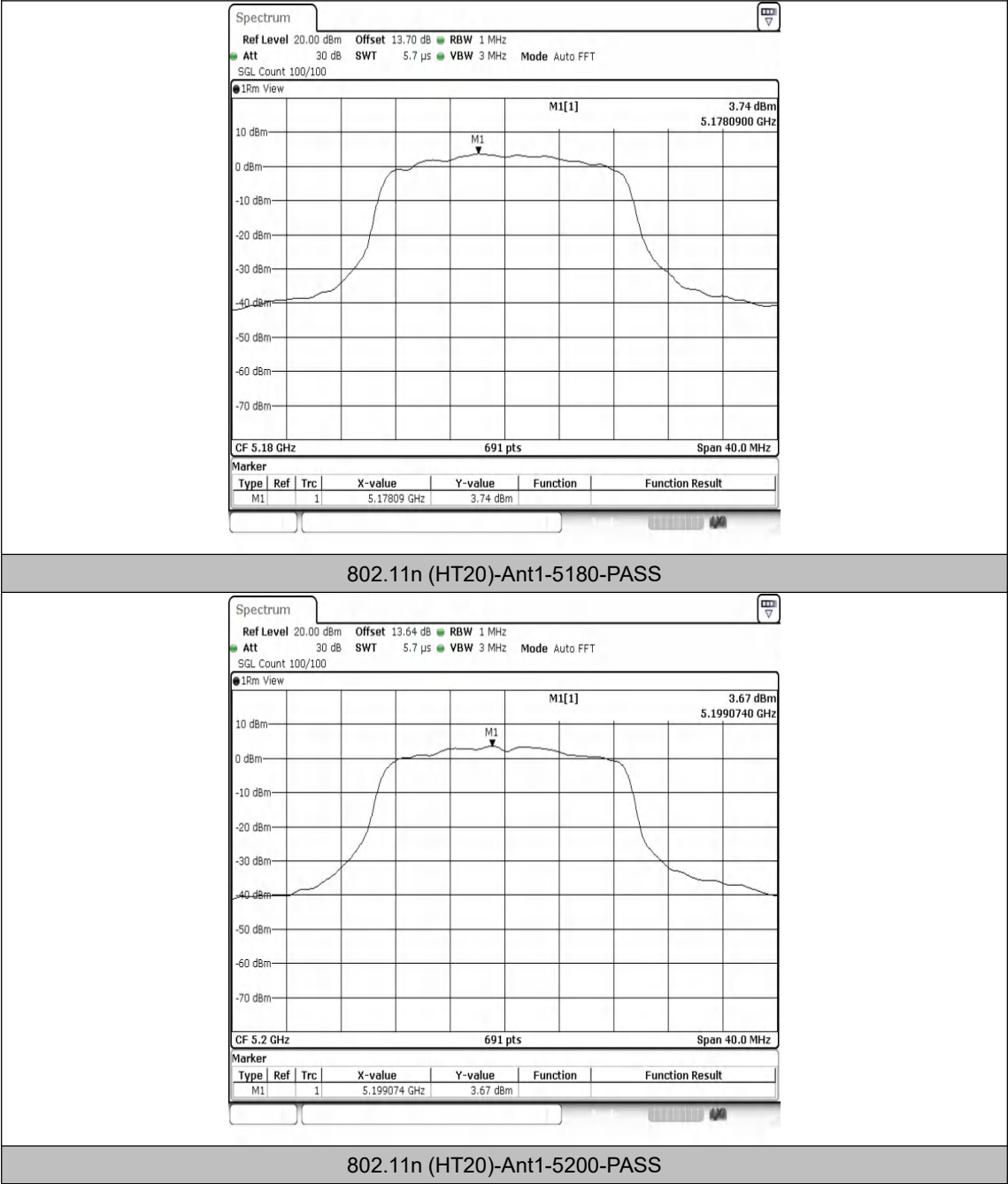


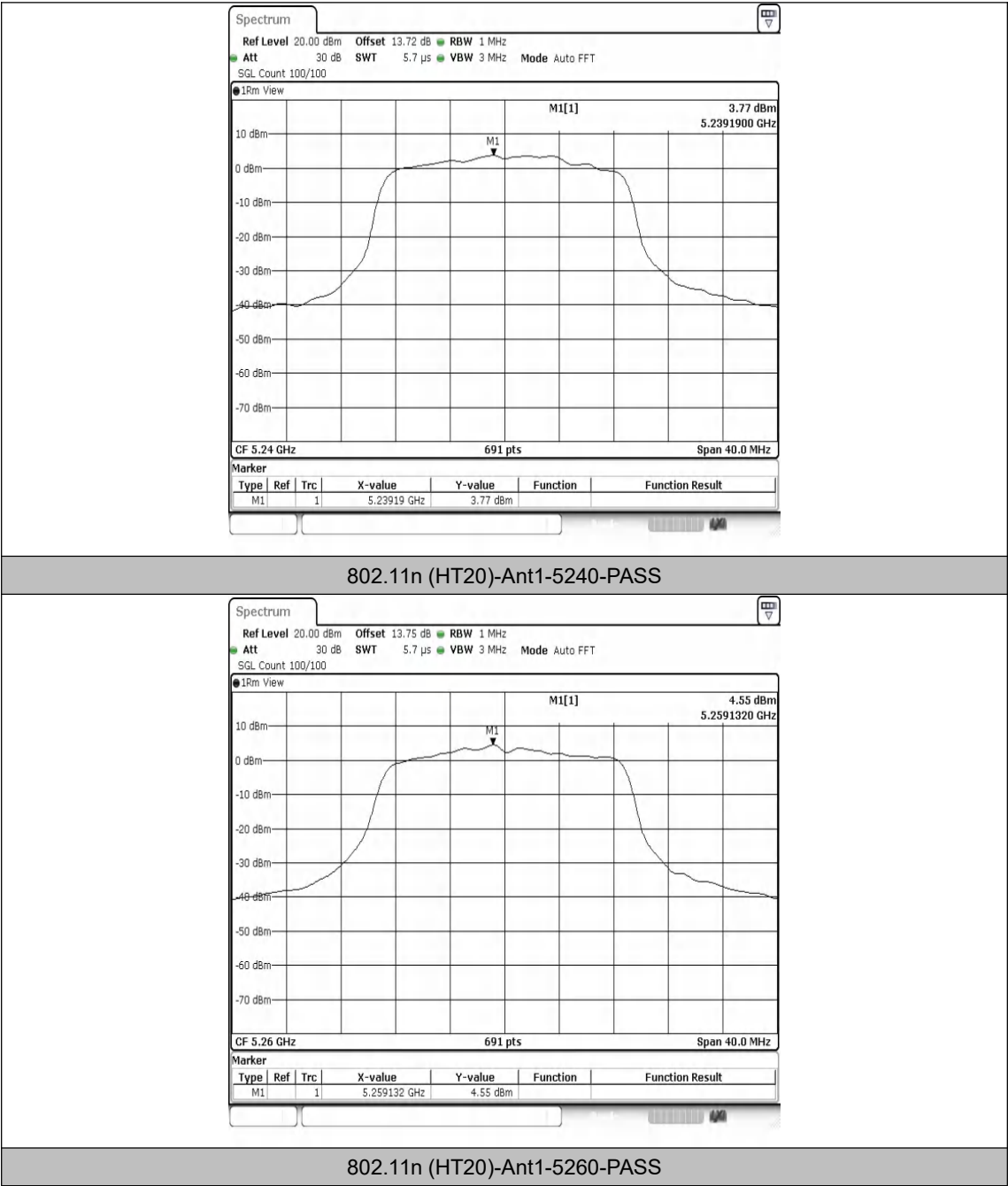


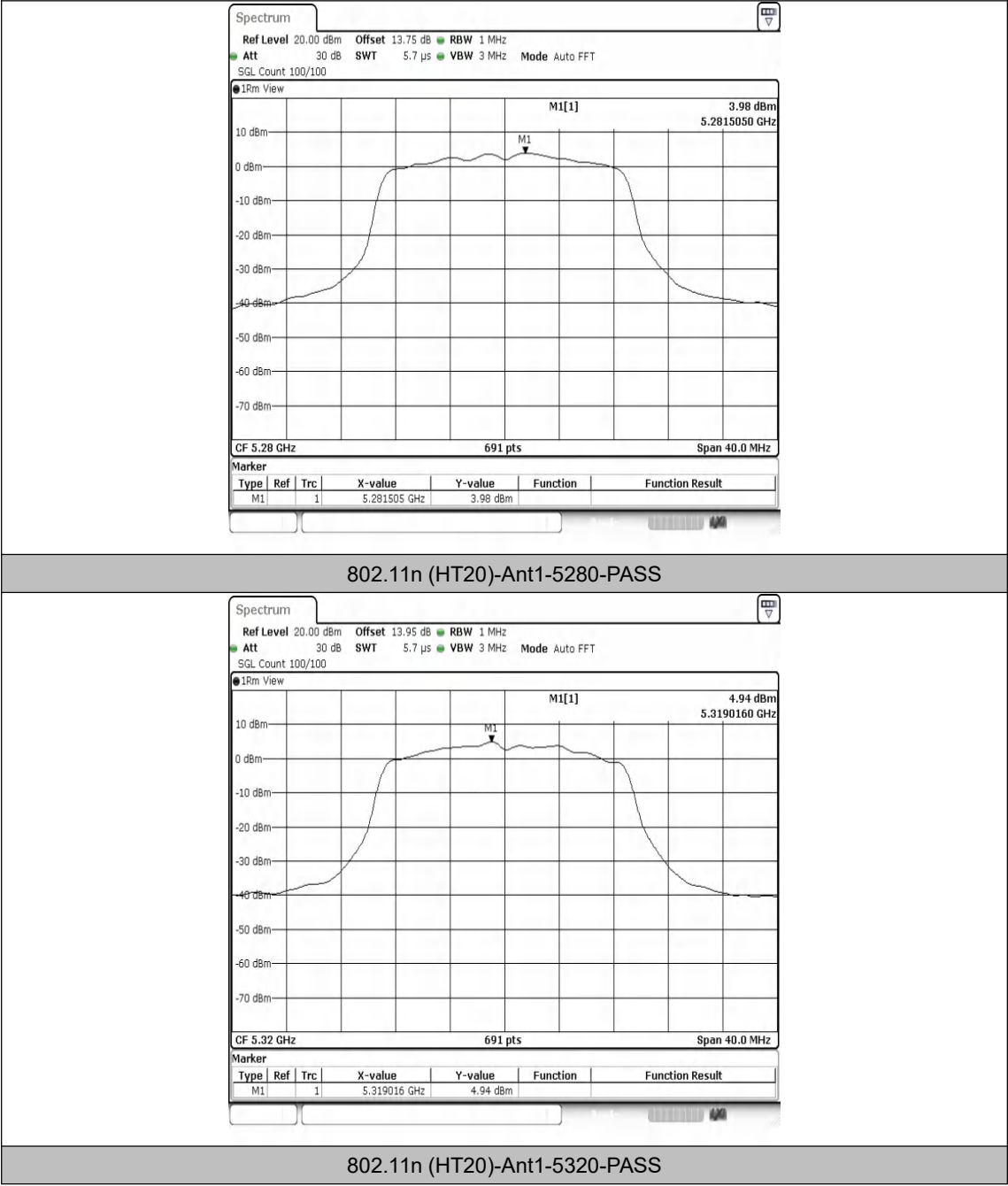


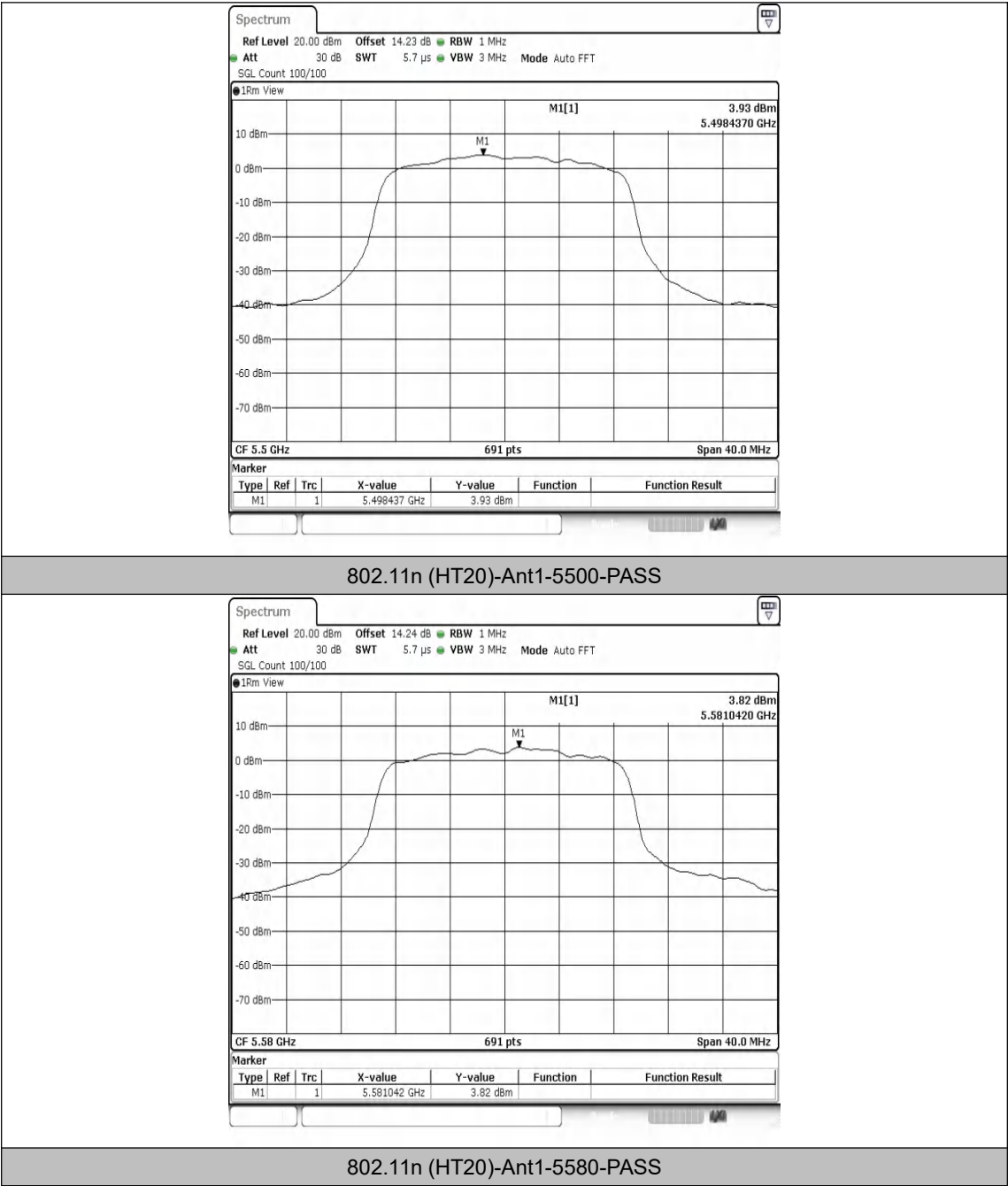


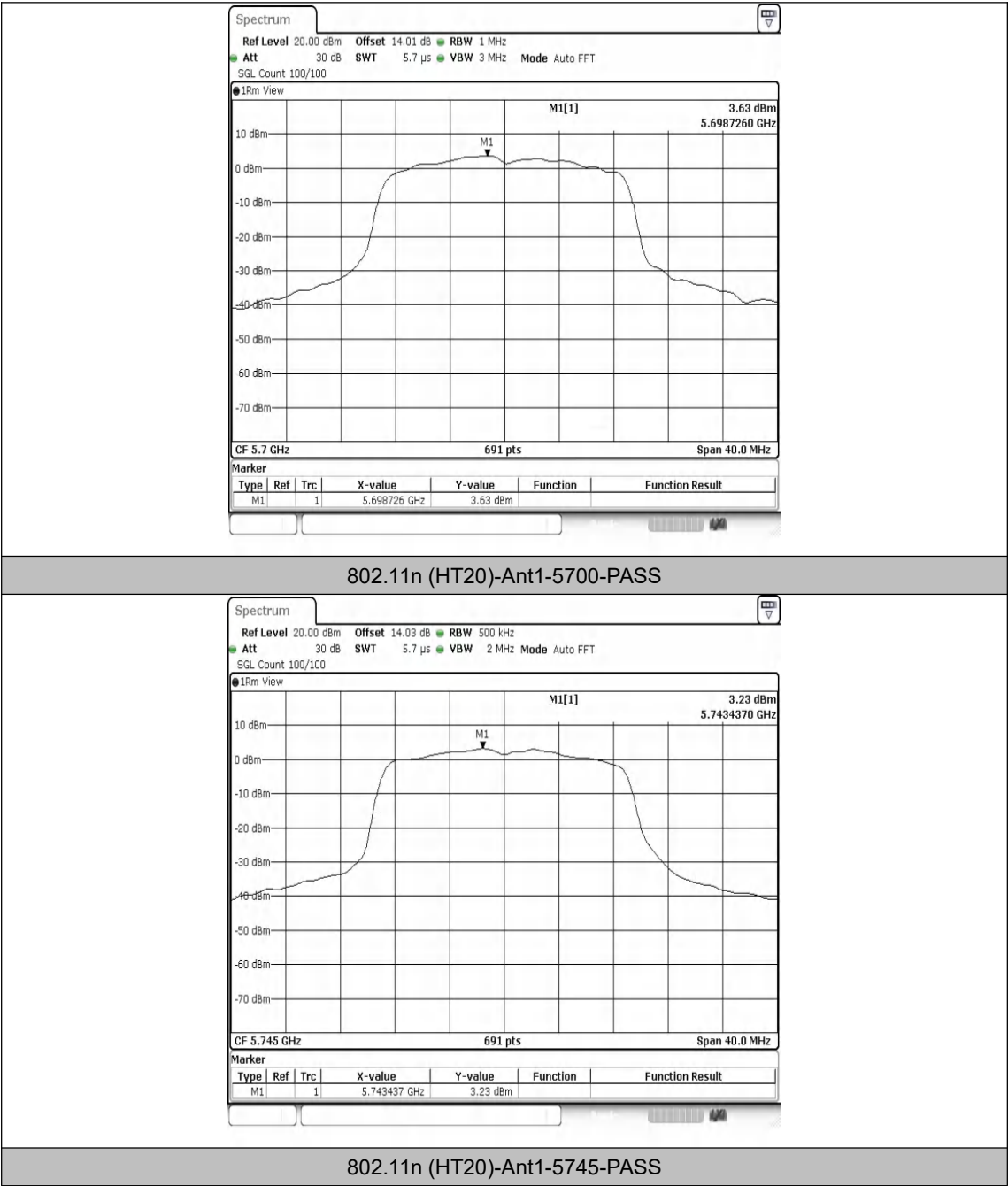


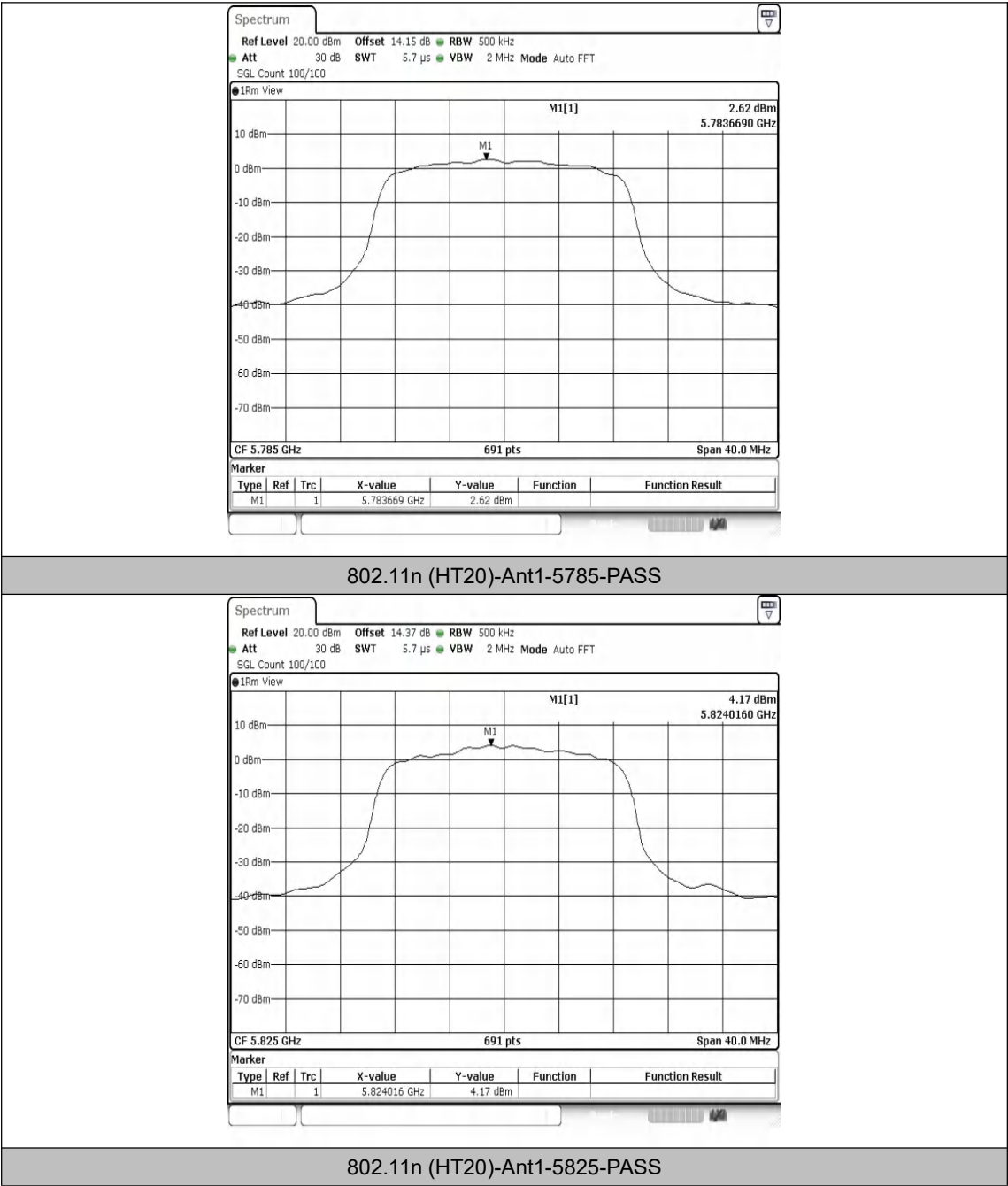












Appendix E: Band edge emissions (Conducted)

Test Result B1/2/3

TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
802.11a	Ant1	Low	5180	-43.2	≤-27	PASS
802.11a	Ant1	High	5320	-47.4	≤-27	PASS
802.11a	Ant1	Low	5500	-46.39	≤-27	PASS
802.11a	Ant1	High	5700	-43.43	≤-27	PASS
802.11n (HT20)	Ant1	Low	5180	-42.64	≤-27	PASS
802.11n (HT20)	Ant1	High	5320	-44.42	≤-27	PASS
802.11n (HT20)	Ant1	Low	5500	-44.55	≤-27	PASS
802.11n (HT20)	Ant1	High	5700	-39.97	≤-27	PASS

Test Result B4

TestMode	Antenna	ChName	Frequency[MHz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
802.11a	Ant1	Low	5745	5720~5725	-40.63	≤20.92	PASS
802.11a	Ant1	Low	5745	5700~5720	-47.24	≤11.03	PASS
802.11a	Ant1	Low	5745	5650~5700	-51.63	≤-26.88	PASS
802.11a	Ant1	Low	5745	5645~5650	-50.04	≤-27	PASS
802.11a	Ant1	High	5825	5850~5855	-40.9	≤19.22	PASS
802.11a	Ant1	High	5825	5855~5875	-49.36	≤10.35	PASS
802.11a	Ant1	High	5825	5875~5925	-52.16	≤-26.87	PASS
802.11a	Ant1	High	5825	5925~5935	-51.07	≤-27	PASS
802.11n (HT20)	Ant1	Low	5745	5720~5725	-31.77	≤20.92	PASS
802.11n (HT20)	Ant1	Low	5745	5700~5720	-41.15	≤15.18	PASS
802.11n (HT20)	Ant1	Low	5745	5650~5700	-50.63	≤-26.88	PASS
802.11n (HT20)	Ant1	Low	5745	5645~5650	-50.31	≤-27	PASS
802.11n (HT20)	Ant1	High	5825	5850~5855	-40.29	≤19.22	PASS
802.11n (HT20)	Ant1	High	5825	5855~5875	-44.02	≤15.55	PASS
802.11n	Ant1	High	5825	5875~5925	-51.88	≤-26.87	PASS

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(HT20)							
802.11n (HT20)	Ant1	High	5825	5925~5935	-50.36	≤-27	PASS

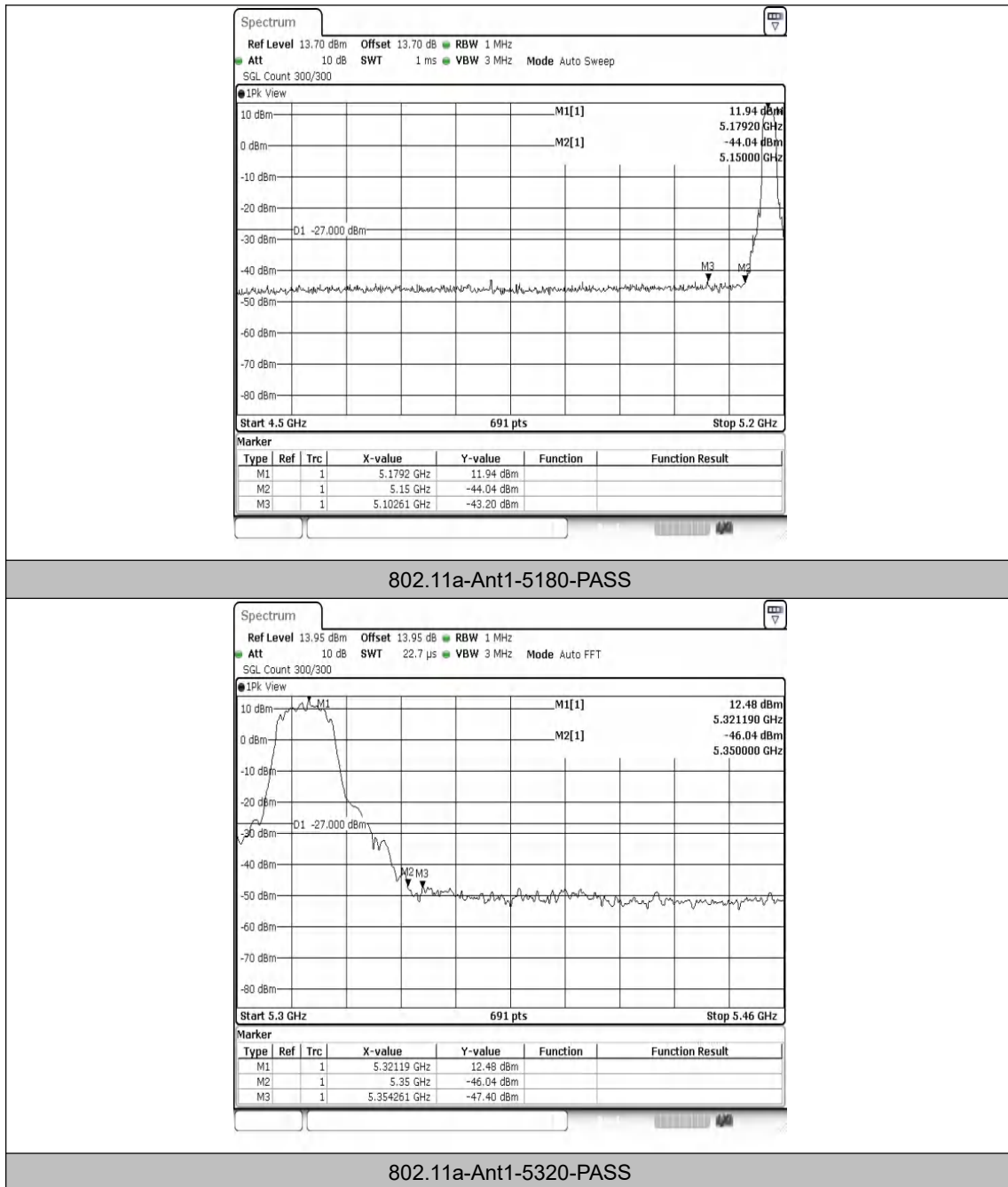
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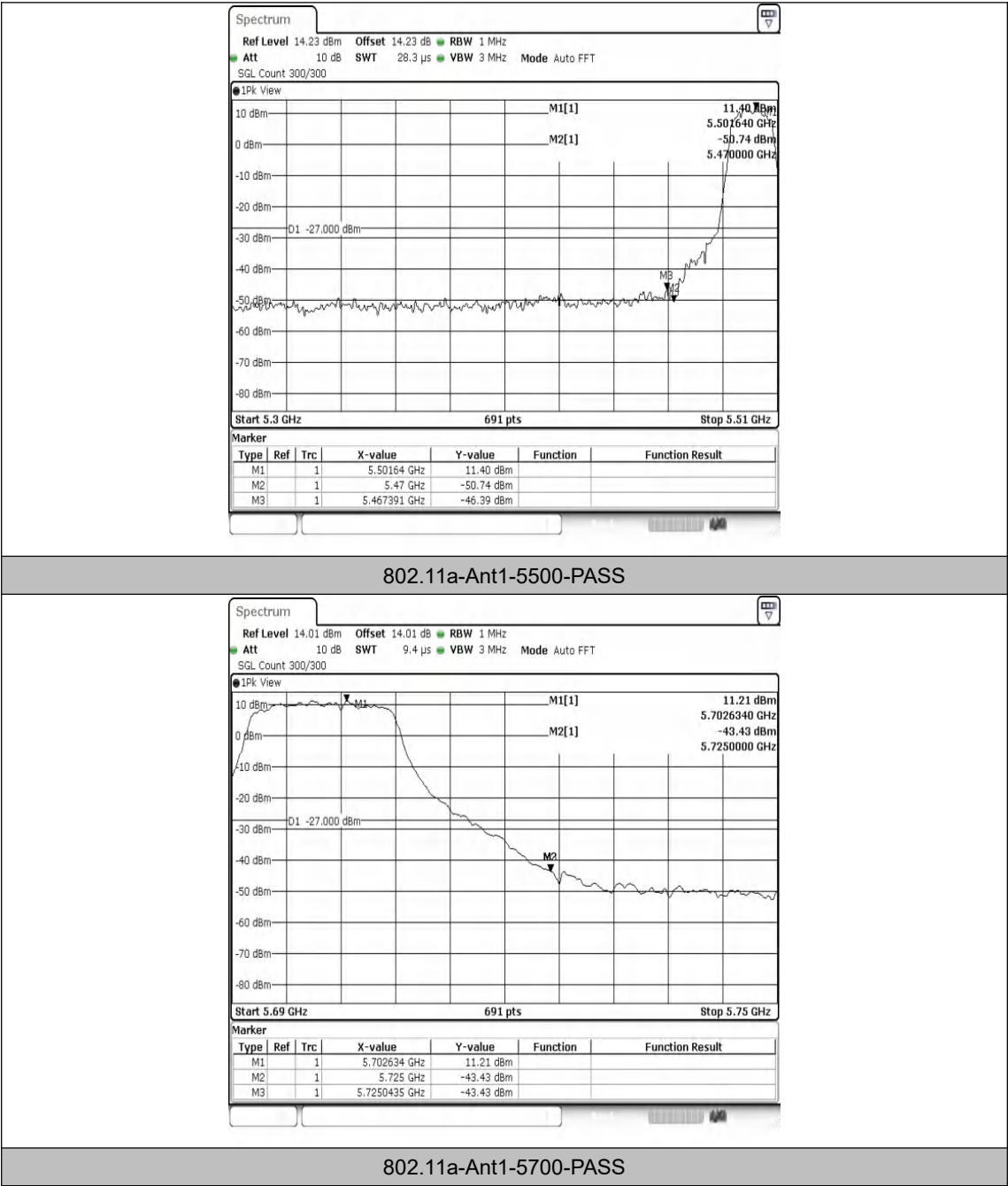
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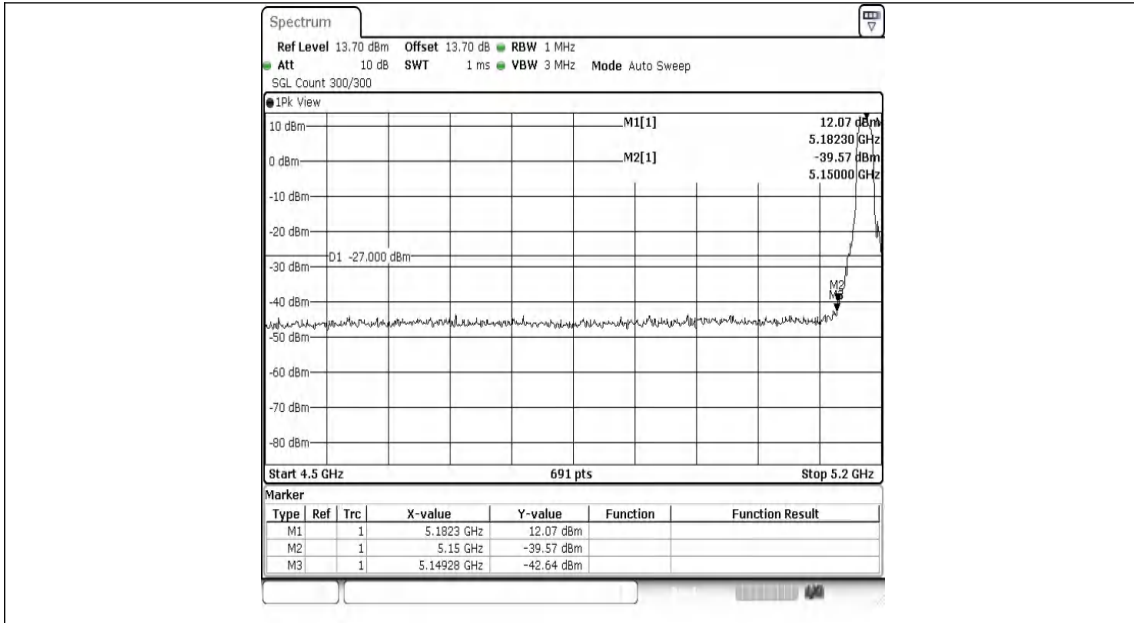
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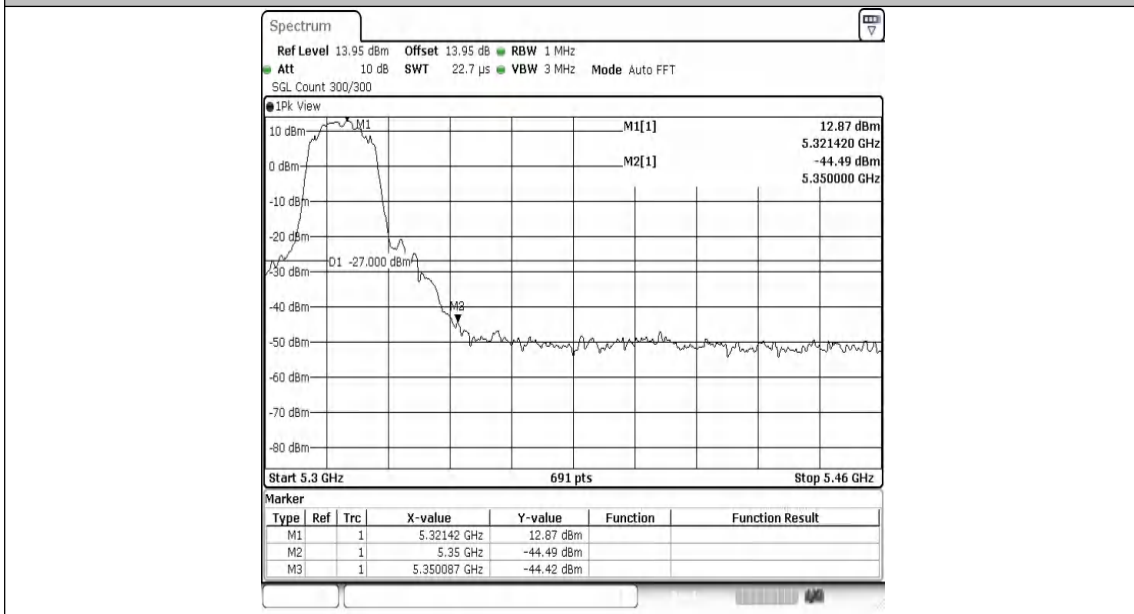
Test Graphs B1/2/3





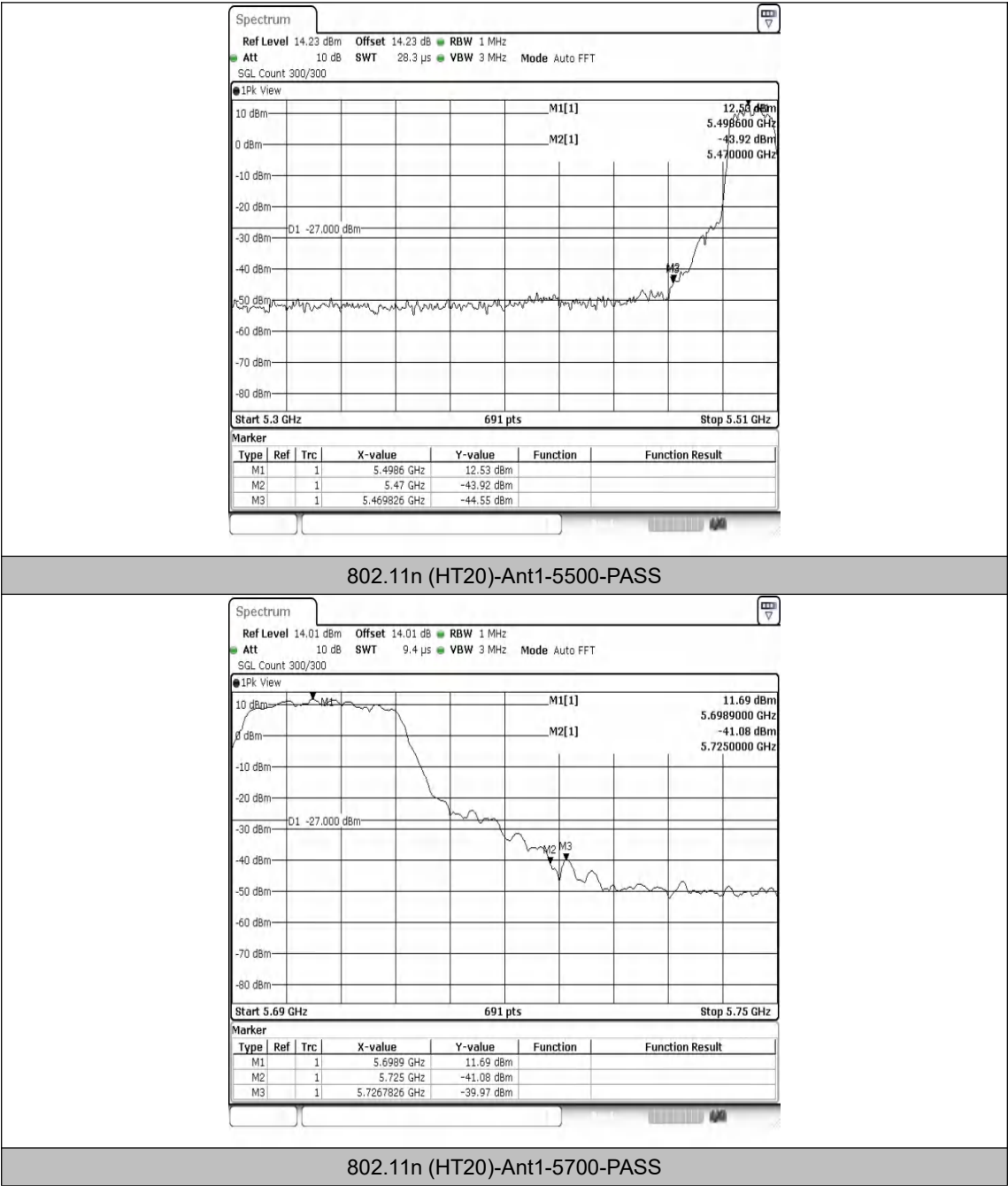


802.11n (HT20)-Ant1-5180-PASS

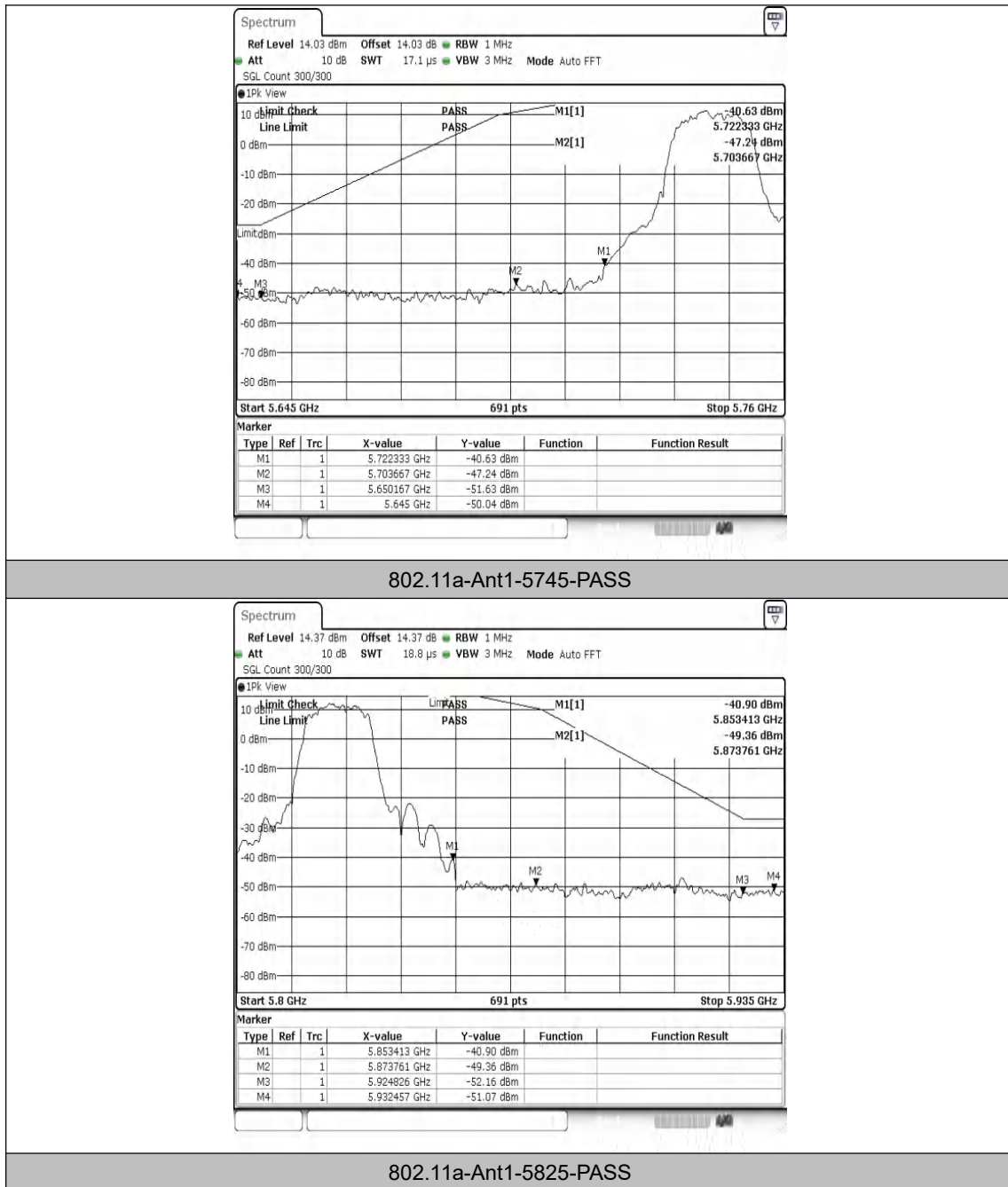


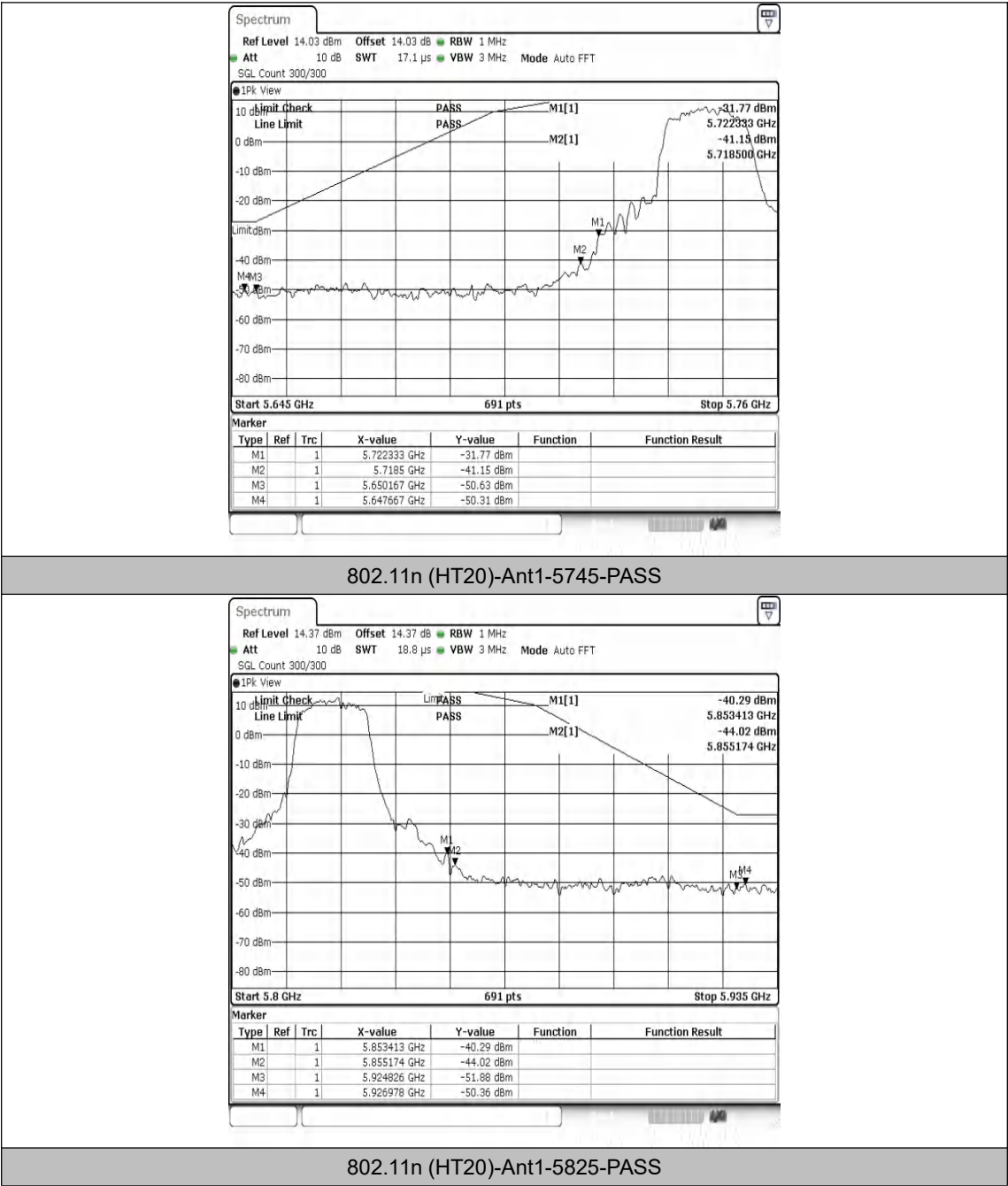
802.11n (HT20)-Ant1-5320-PASS





Test Graphs B4





Appendix F: DFS Detection Thresholds

Test Result

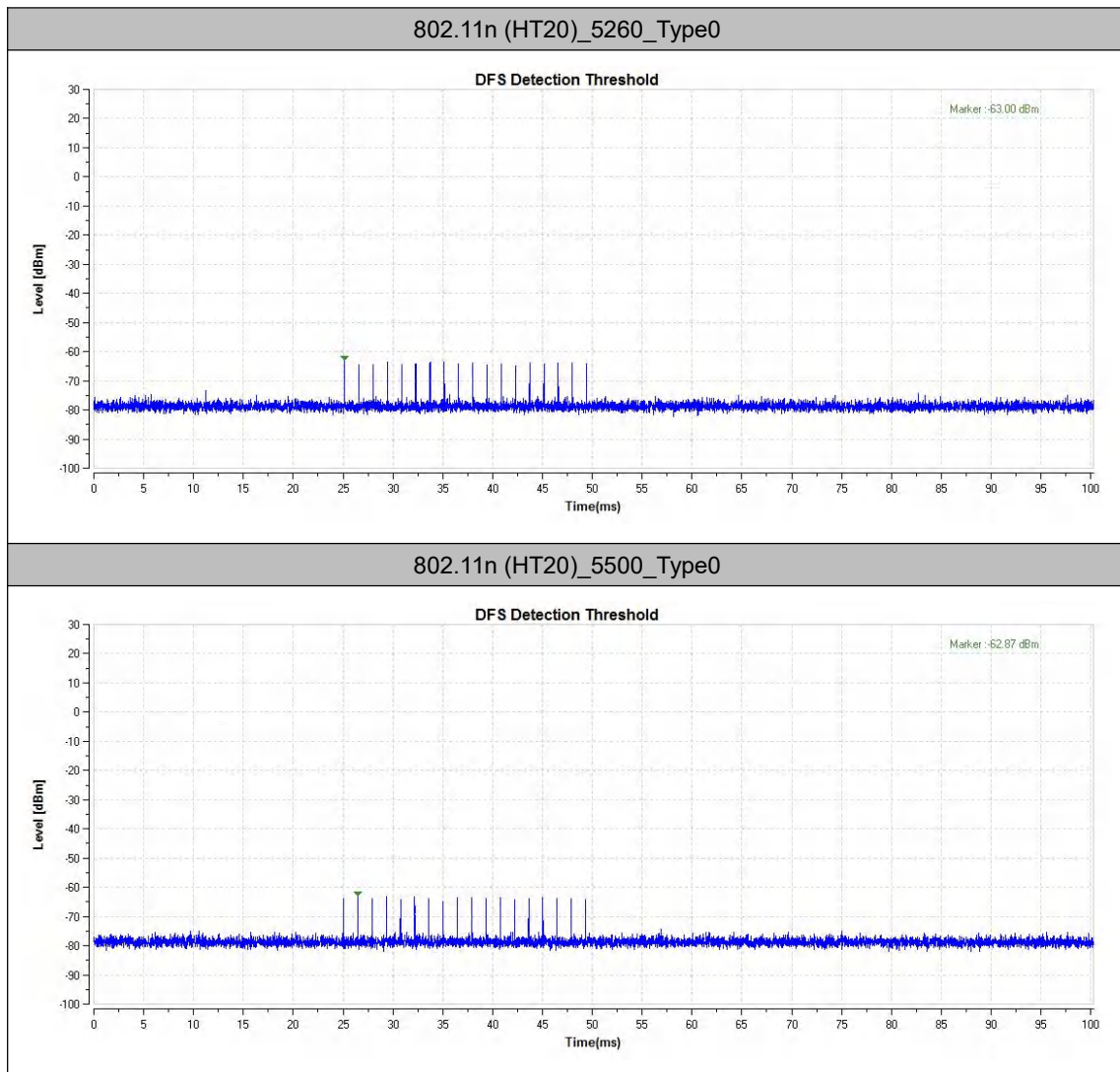
TestMode	Frequency[dbm]	Radar Type	Result	Limit[dbm]	Verdict
802.11n (HT20)	5260	Type0	-63.00	-62.00	PASS
802.11n (HT20)	5500	Type0	-62.87	-62.00	PASS

Note: 1.EIRP=Maximum conducted output power+Antenna Gain=15.37+4.17=19.54dBm(<200mw).

2: Only record the worst data in the report



Test Graphs



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Appendix G: Channel Move Time, Channel Closing

Transmission Time

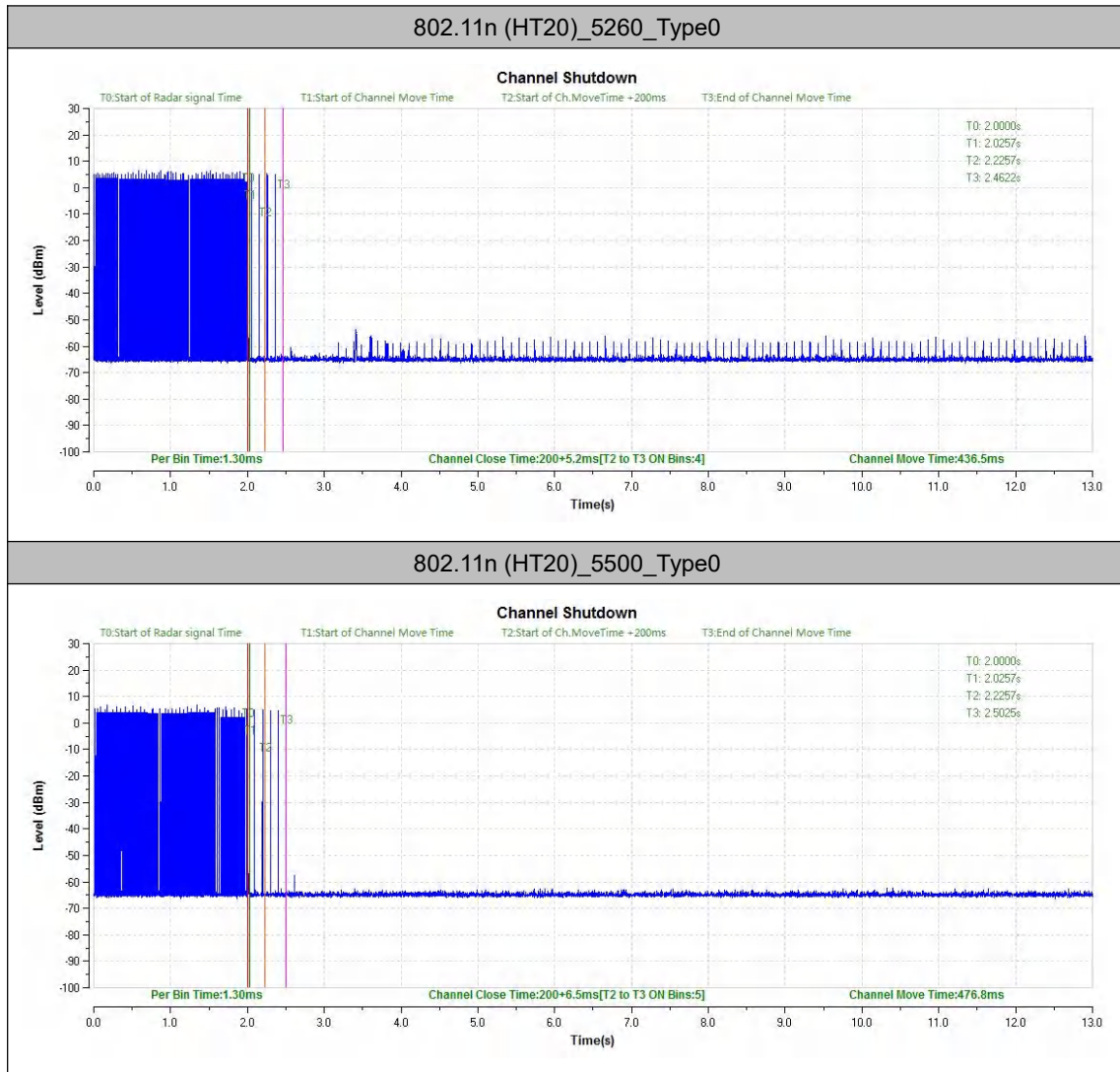
Test Result

TestMode	Frequency[MHz]	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
802.11n (HT20)	5260	200+5.2	200+60	436.5	10000	PASS
802.11n (HT20)	5500	200+6.5	200+60	476.8	10000	PASS

Note: Only record the worst data.



Test Graphs



---END---

