

Appendix Test Data

Report No.:	1812C50431012502-01	Test Sample No.:	1-2-2
Start Test Date:	2025-8-29	Finish Test Date:	2025-9-11
Test Engineer:	<i>dylan. Ma</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24.0°C	Relative Humidity:	50%
Pressure:	101kPa		

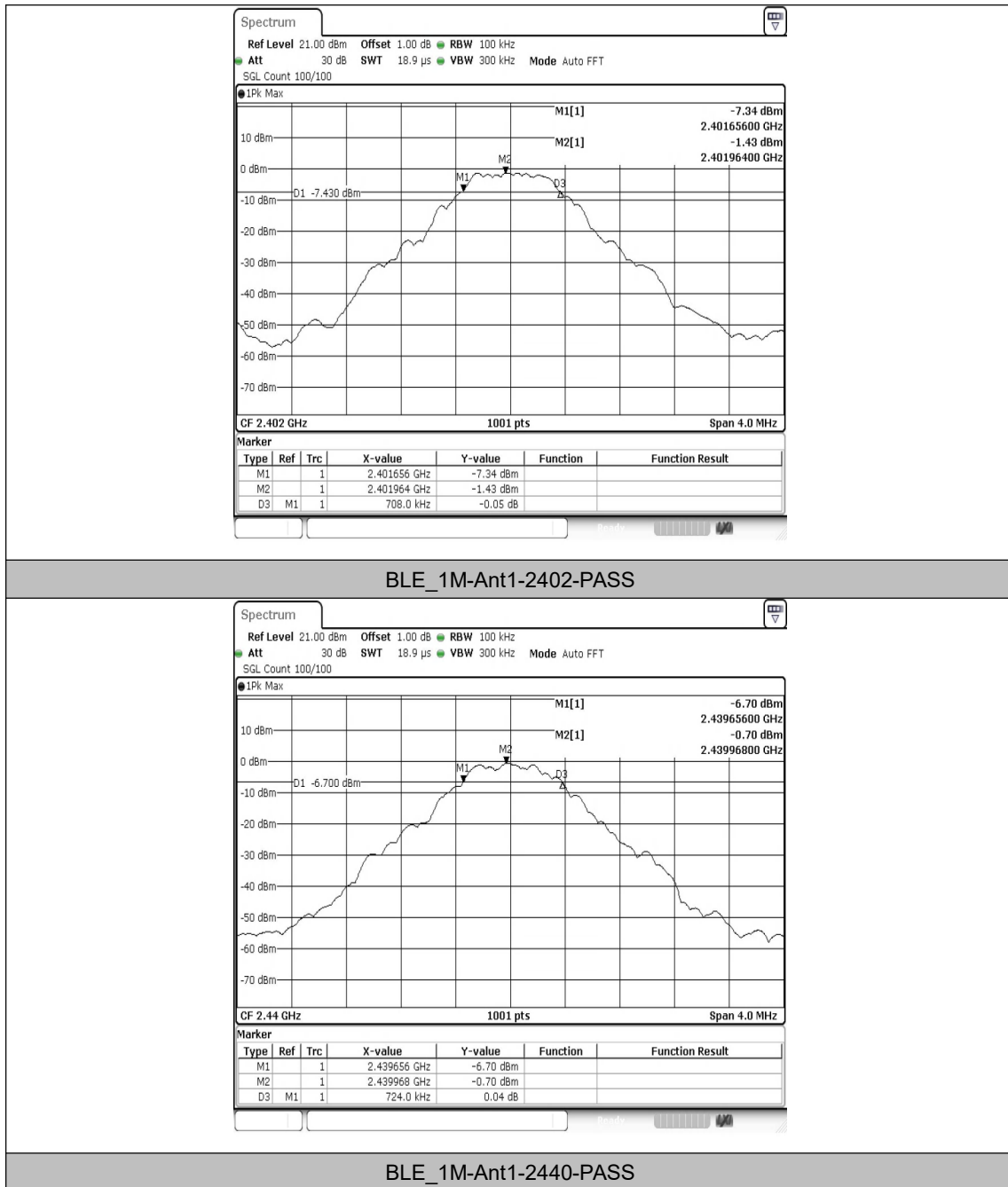


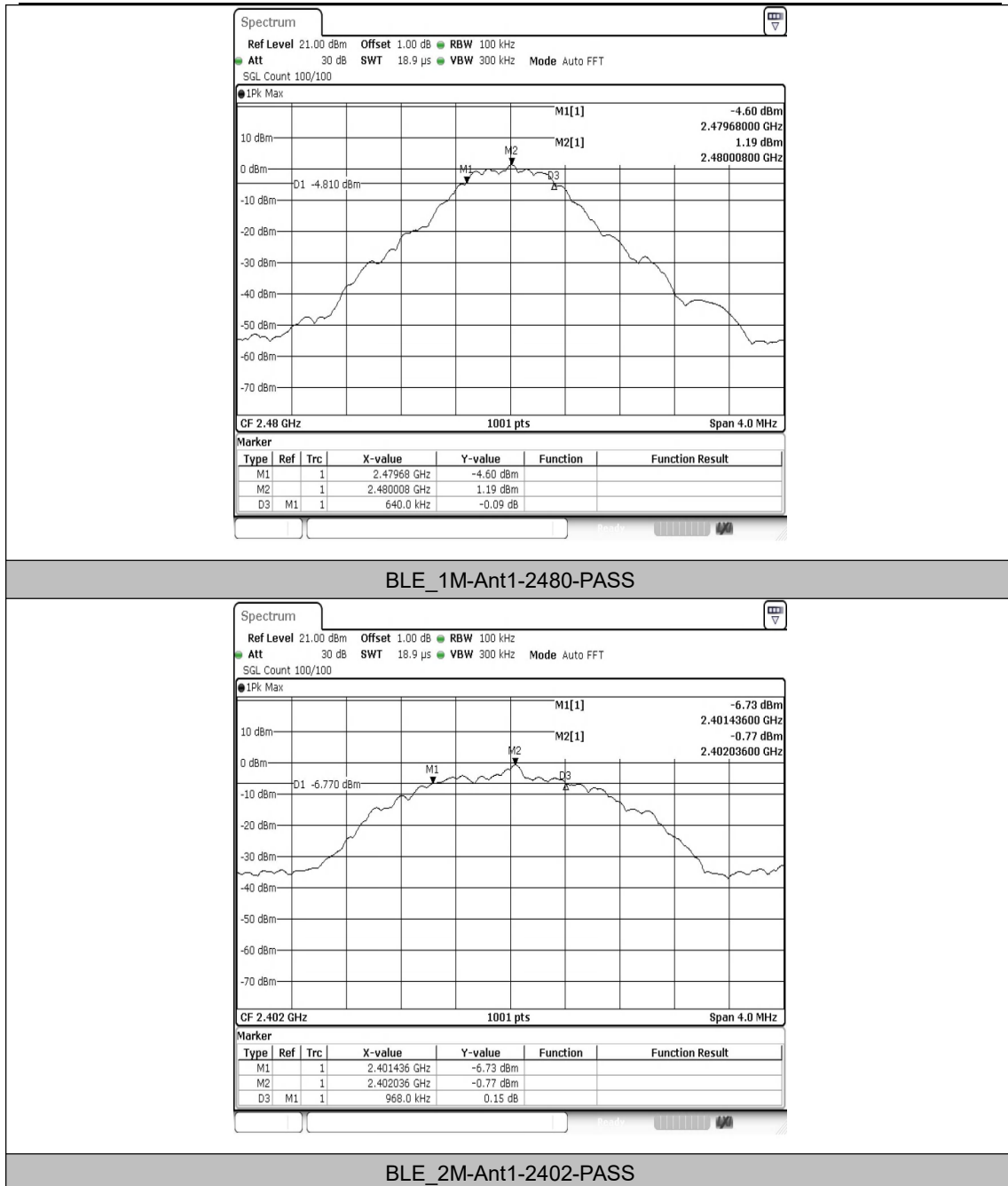
Appendix A: 6dB Bandwidth

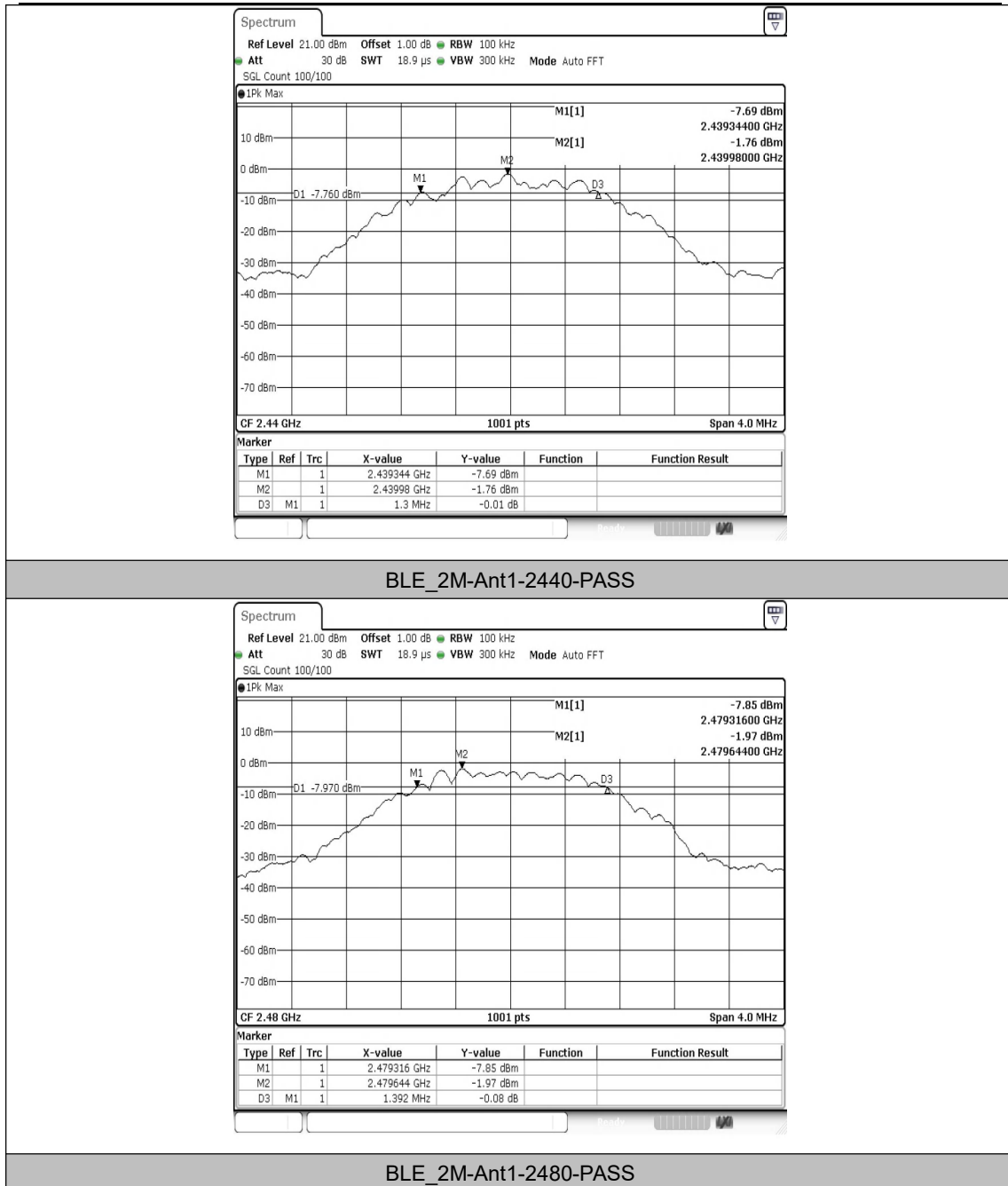
Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.71	2401.66	2402.36	0.5	PASS
BLE_1M	Ant1	2440	0.72	2439.66	2440.38	0.5	PASS
BLE_1M	Ant1	2480	0.64	2479.68	2480.32	0.5	PASS
BLE_2M	Ant1	2402	0.97	2401.44	2402.40	0.5	PASS
BLE_2M	Ant1	2440	1.30	2439.34	2440.64	0.5	PASS
BLE_2M	Ant1	2480	1.39	2479.32	2480.71	0.5	PASS

Test Graphs







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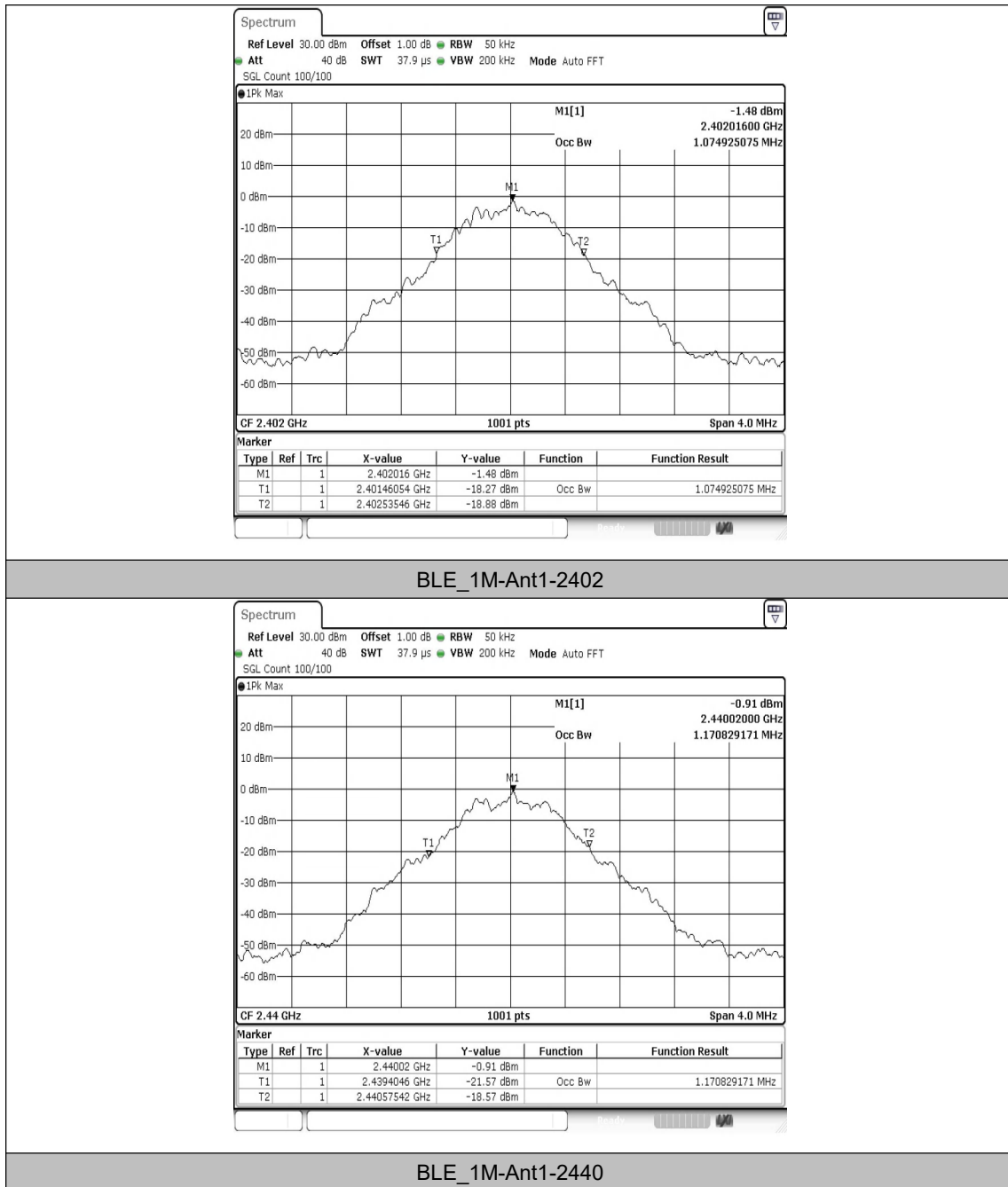
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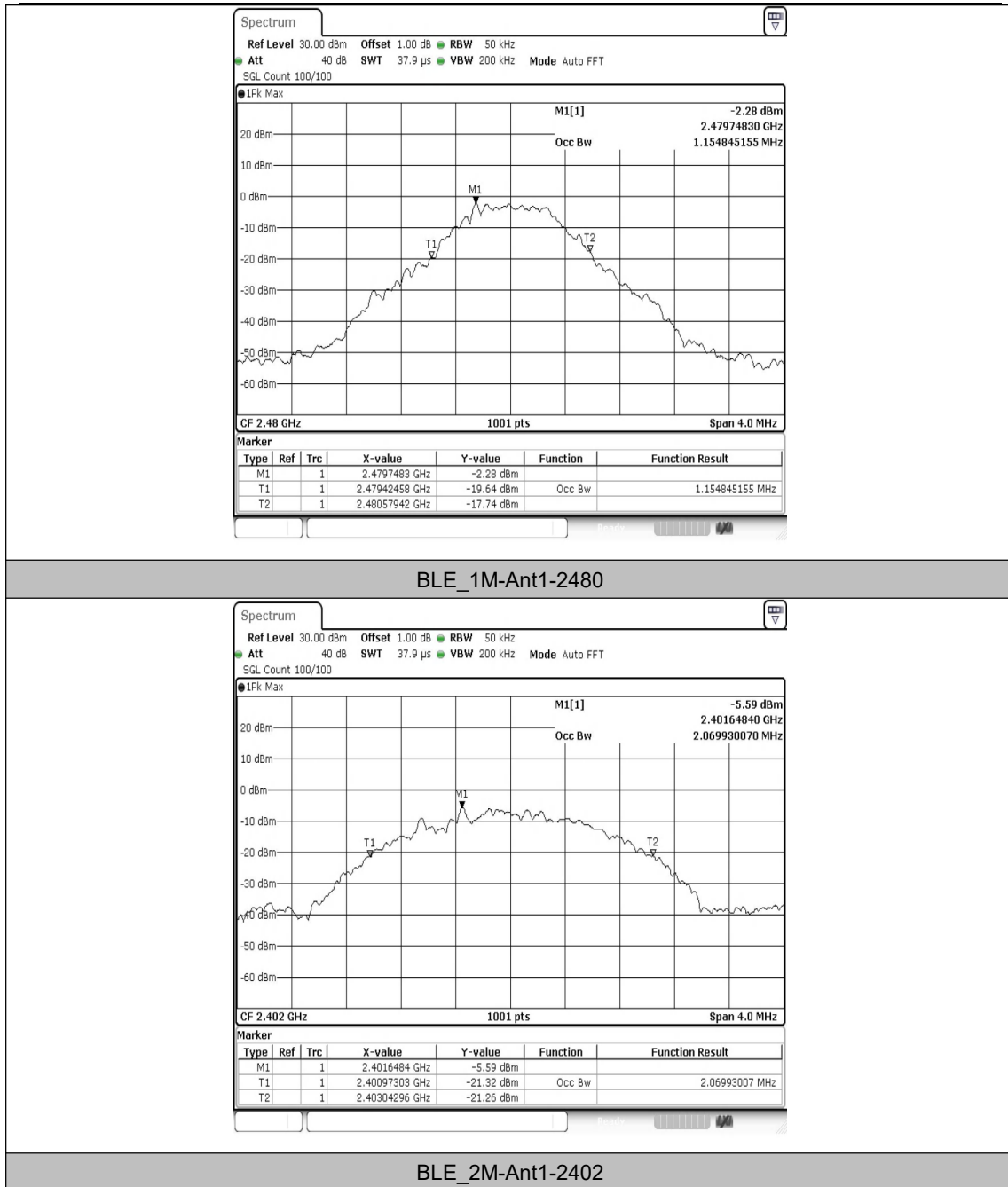
Appendix B: 99% Occupied Bandwidth

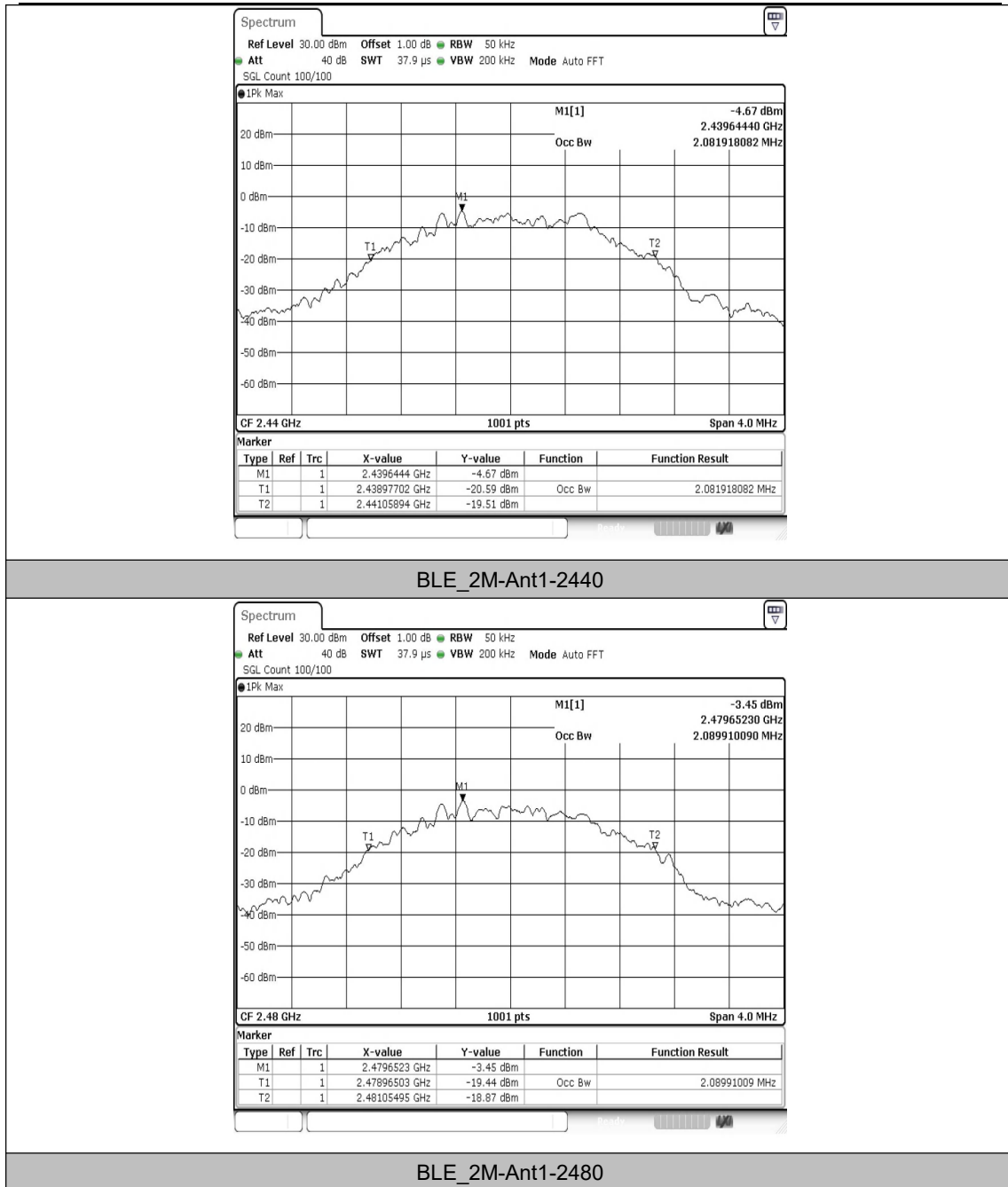
Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0749	2401.4605	2402.5355	---	---
BLE_1M	Ant1	2440	1.1708	2439.4046	2440.5754	---	---
BLE_1M	Ant1	2480	1.1548	2479.4246	2480.5794	---	---
BLE_2M	Ant1	2402	2.0699	2400.9730	2403.0430	---	---
BLE_2M	Ant1	2440	2.0819	2438.9770	2441.0589	---	---
BLE_2M	Ant1	2480	2.0899	2478.9650	2481.0549	---	---

Test Graphs







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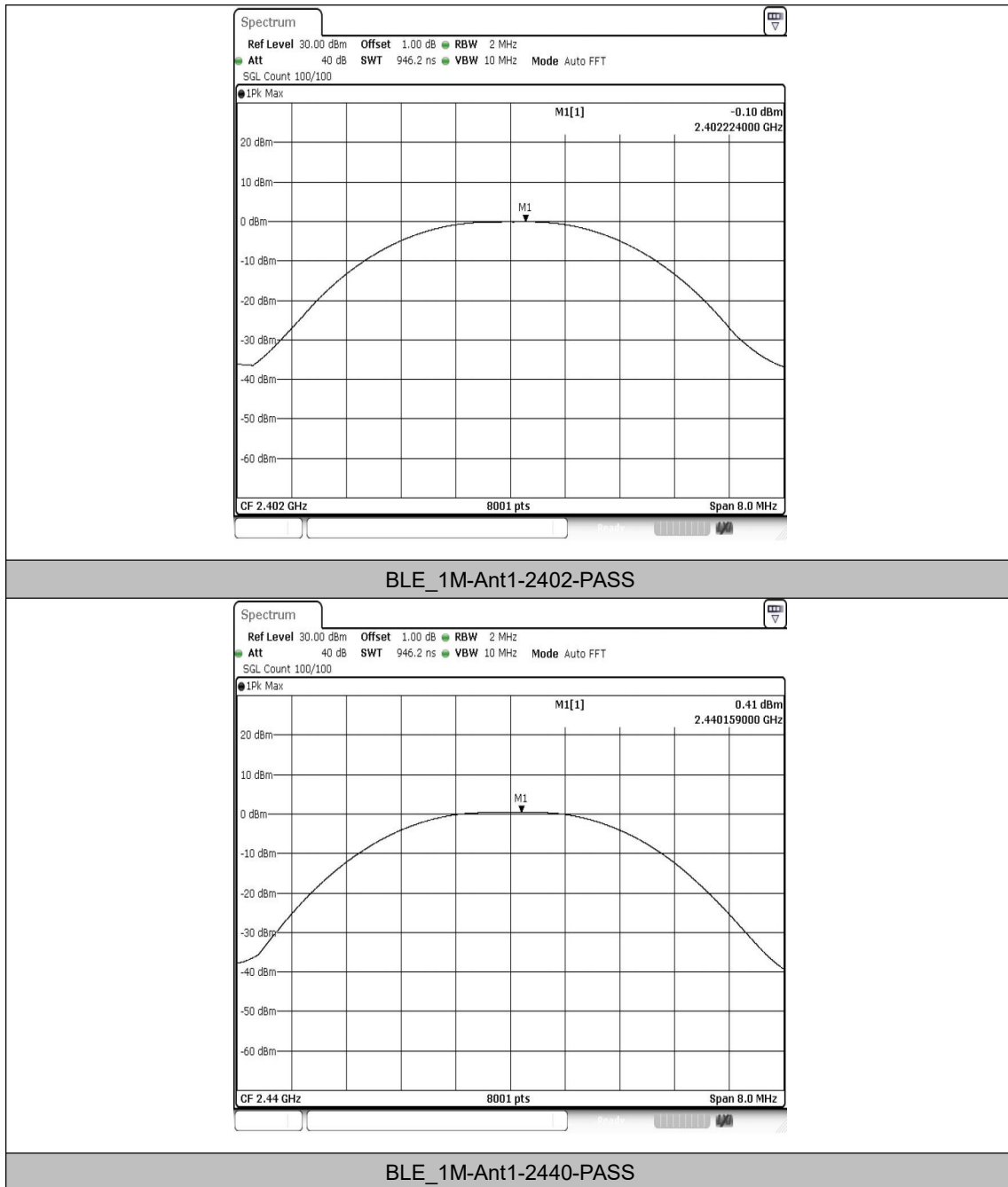
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.10	≤30	PASS
BLE_1M	Ant1	2440	0.41	≤30	PASS
BLE_1M	Ant1	2480	1.24	≤30	PASS
BLE_2M	Ant1	2402	0.02	≤30	PASS
BLE_2M	Ant1	2440	0.55	≤30	PASS
BLE_2M	Ant1	2480	1.37	≤30	PASS

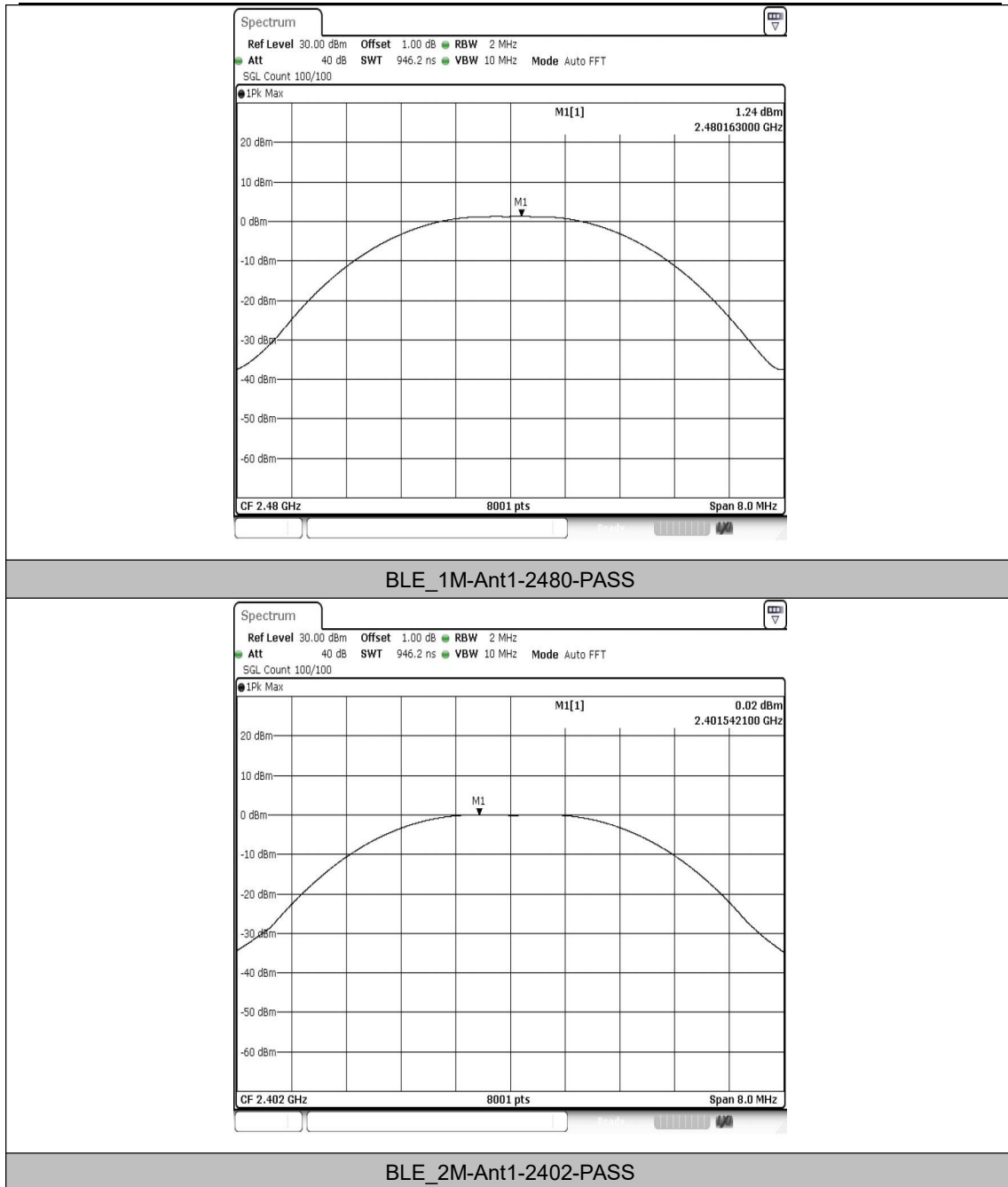
Test Graphs Peak



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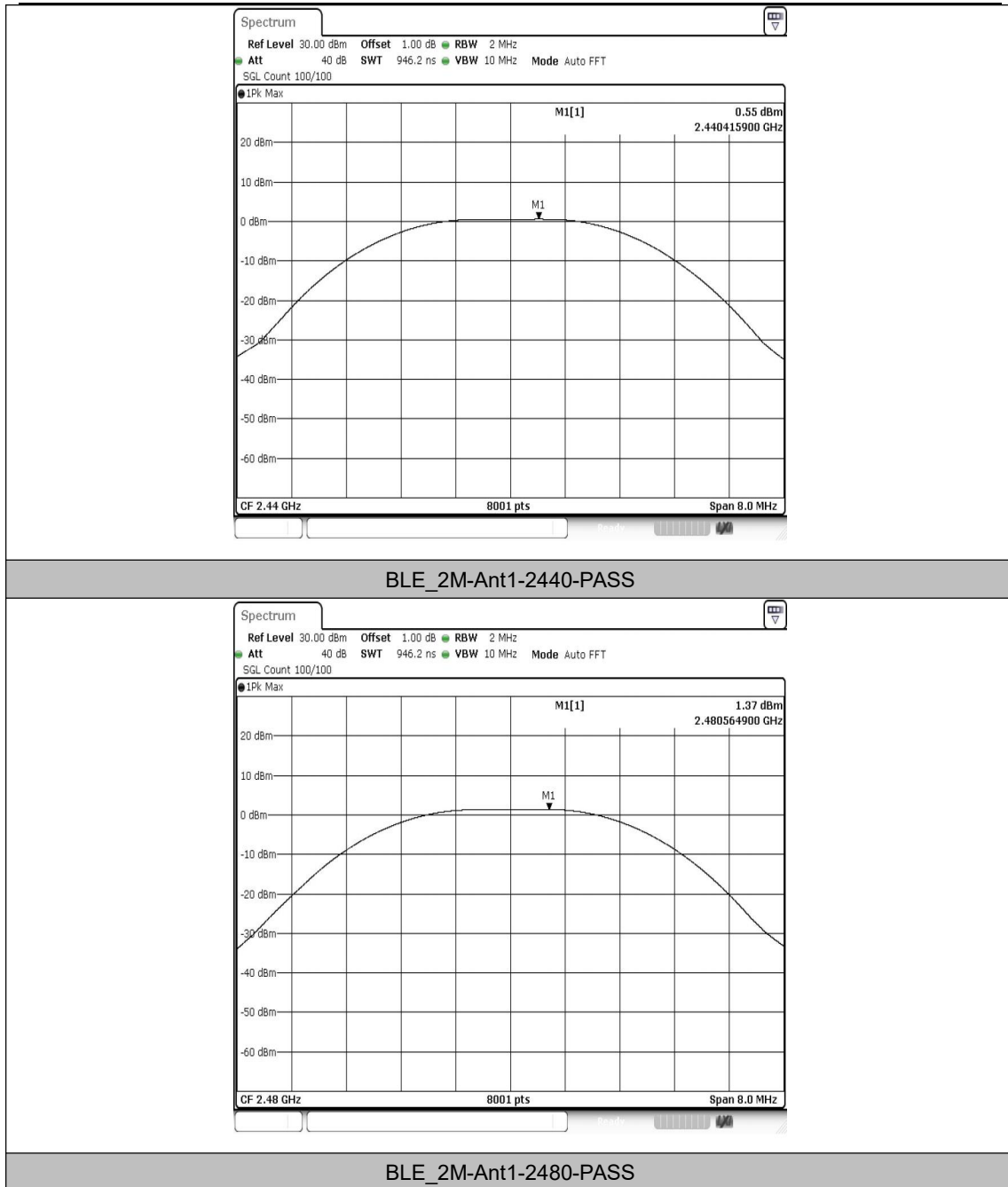
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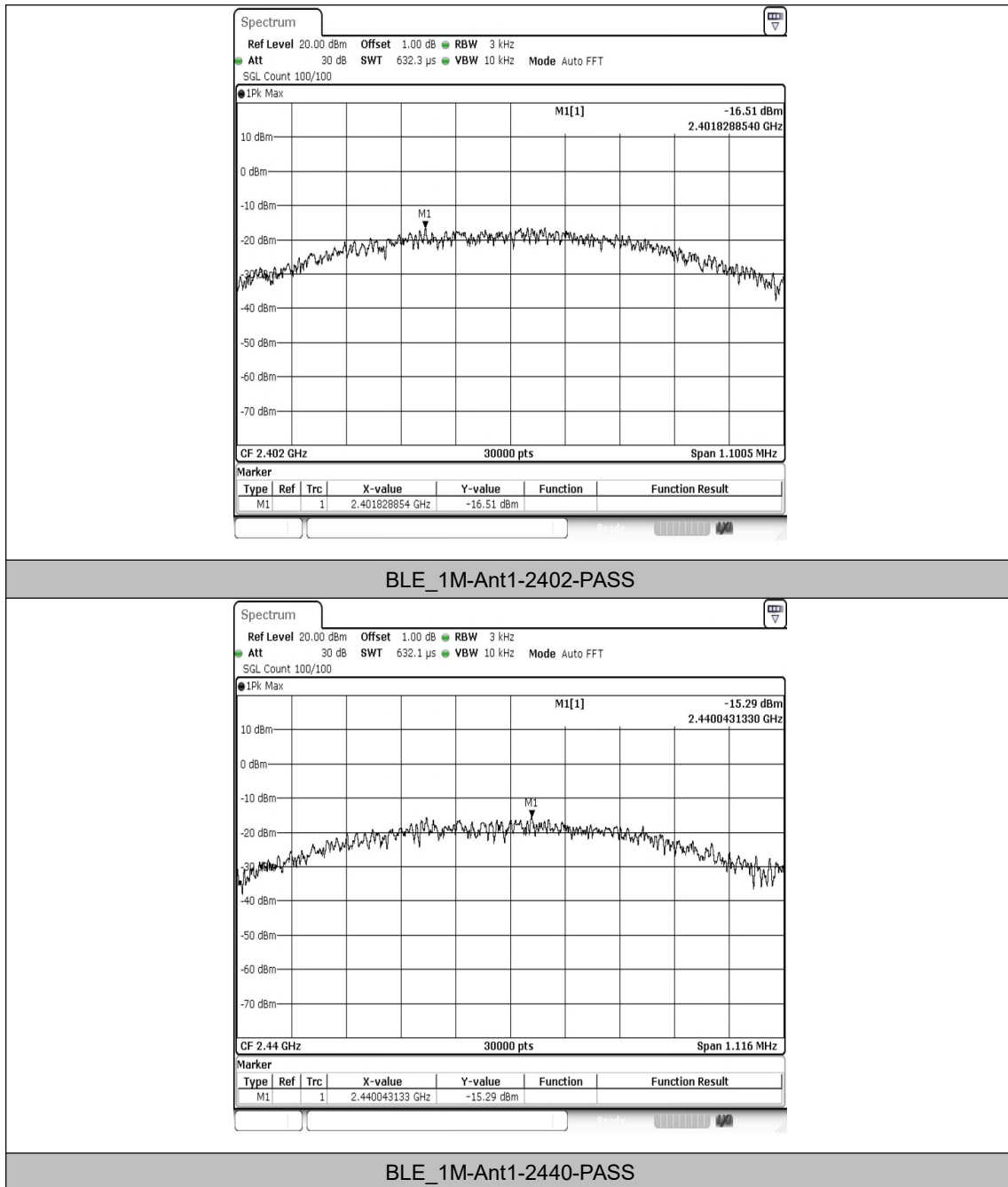
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.51	≤8.00	PASS
BLE_1M	Ant1	2440	-15.29	≤8.00	PASS
BLE_1M	Ant1	2480	-14.40	≤8.00	PASS
BLE_2M	Ant1	2402	-18.00	≤8.00	PASS
BLE_2M	Ant1	2440	-17.31	≤8.00	PASS
BLE_2M	Ant1	2480	-16.87	≤8.00	PASS

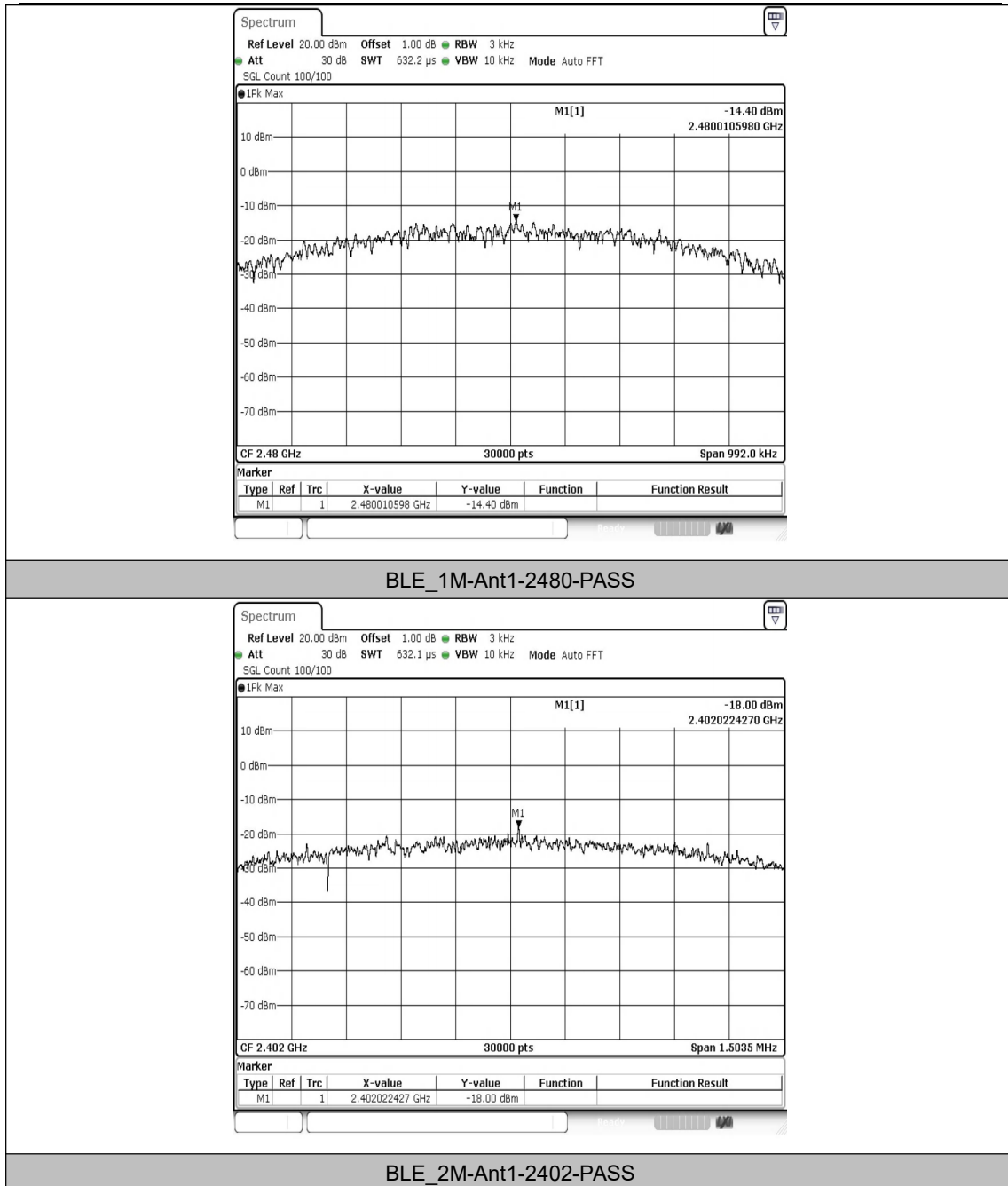
Test Graphs



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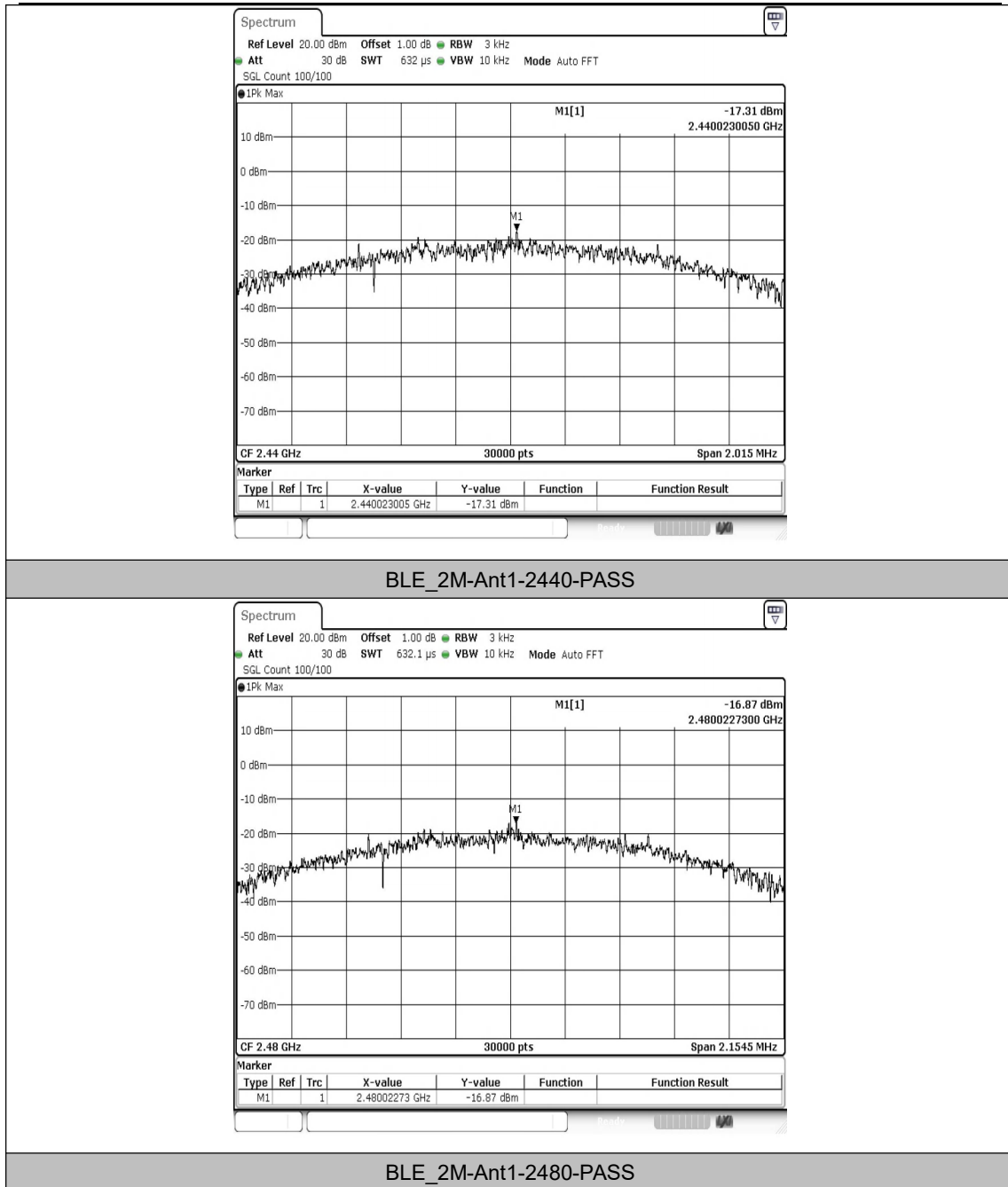
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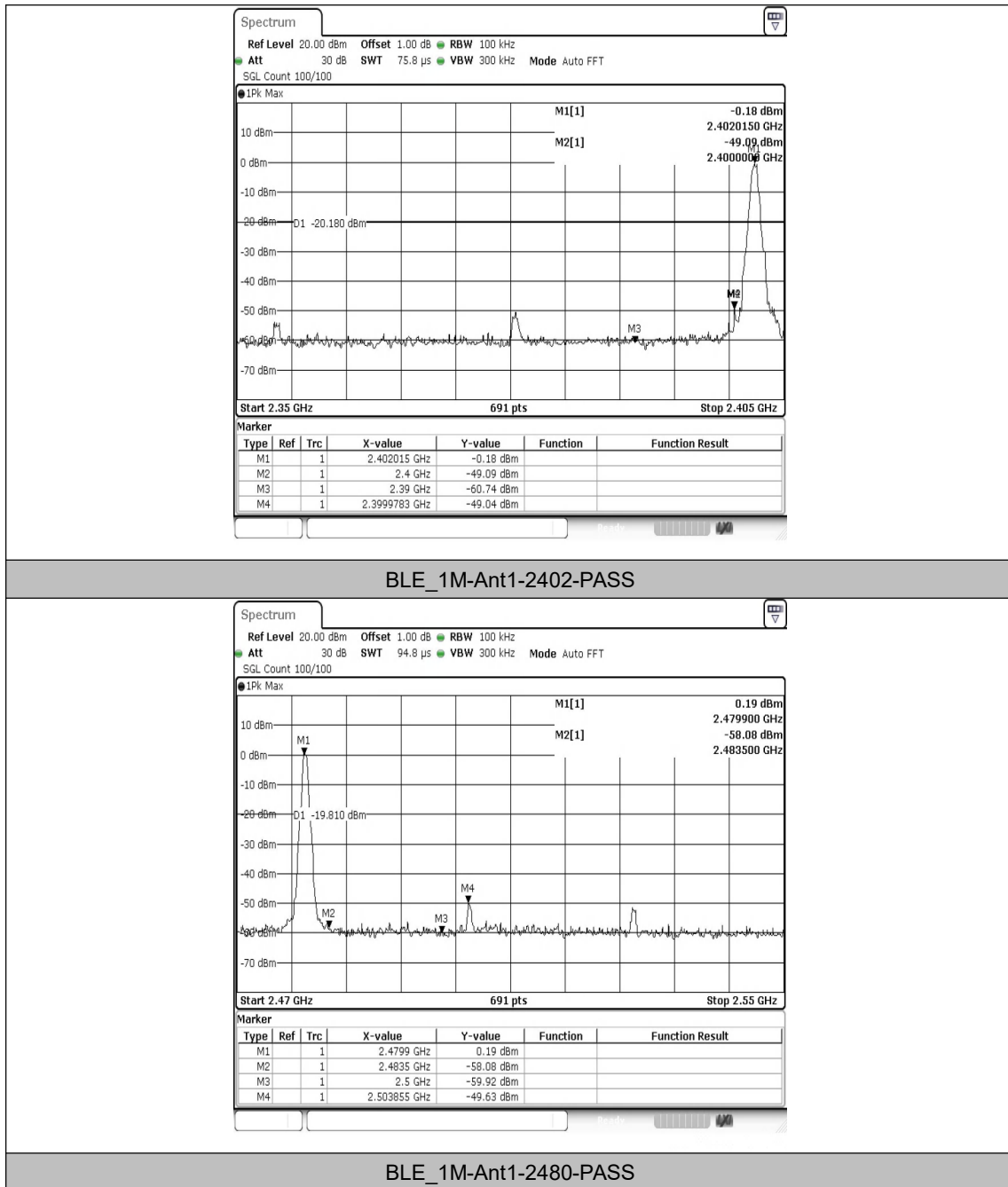
Appendix E: Band edge measurements

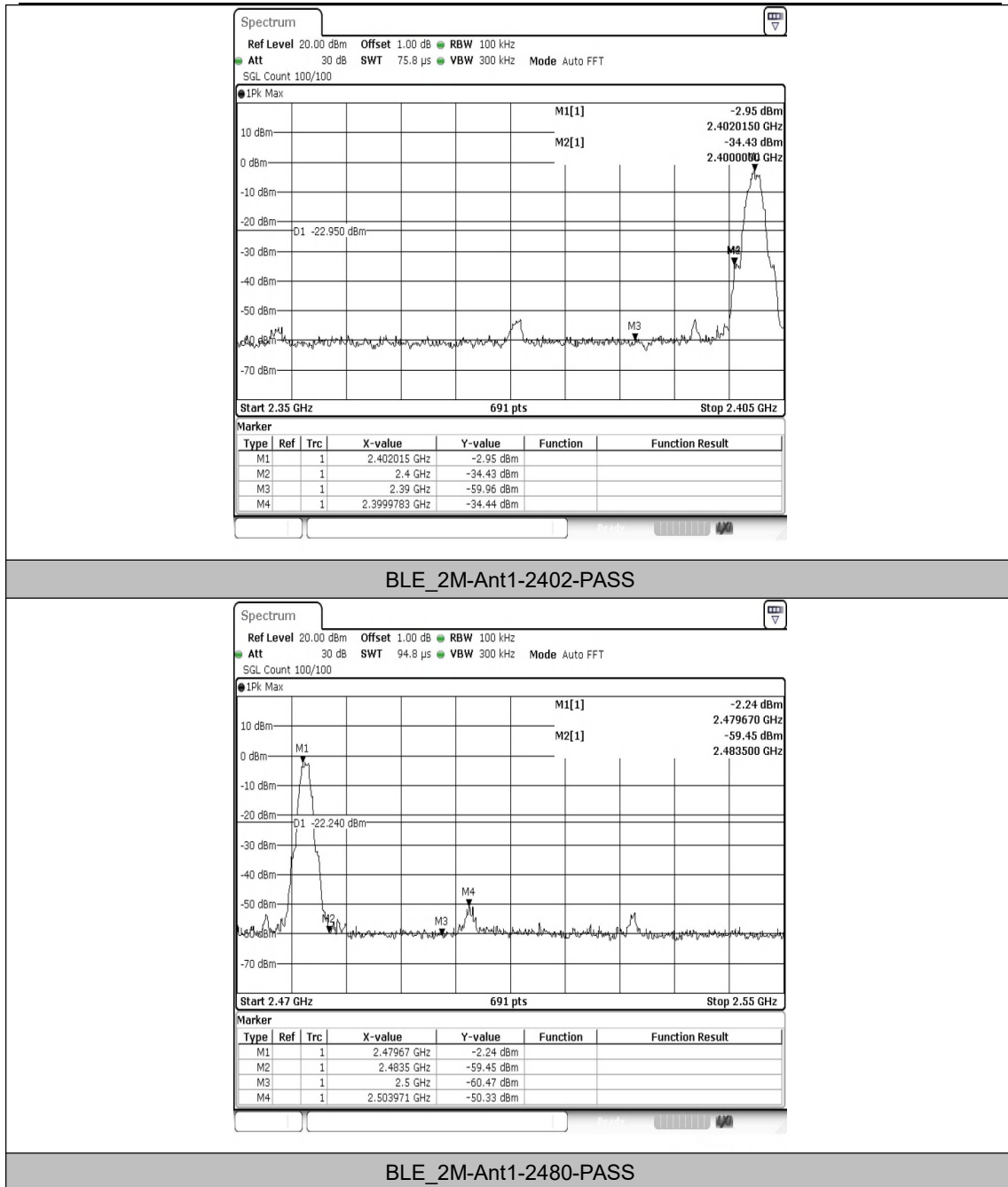
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.18	-49.04	≤-20.18	PASS
BLE_1M	Ant1	High	2480	0.19	-49.63	≤-19.81	PASS
BLE_2M	Ant1	Low	2402	-2.95	-34.44	≤-22.95	PASS
BLE_2M	Ant1	High	2480	-2.24	-50.33	≤-22.24	PASS

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

Test Graphs





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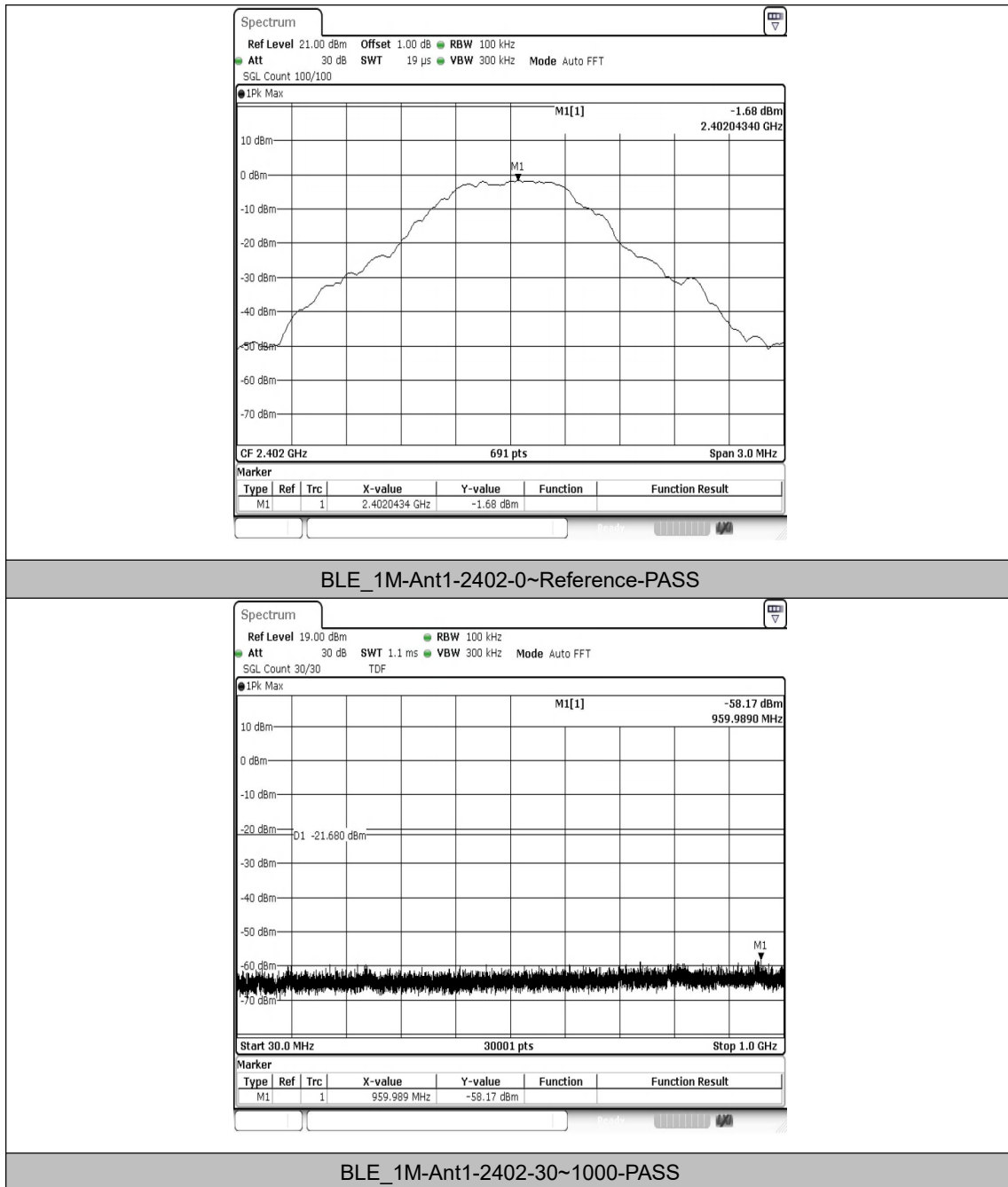
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-1.68	-1.68	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.68	-58.17	≤-21.68	PASS
BLE_1M	Ant1	2402	1000~26500	-1.68	-44.02	≤-21.68	PASS
BLE_1M	Ant1	2440	0~Reference	0.30	0.30	---	PASS
BLE_1M	Ant1	2440	30~1000	0.30	-58.02	≤-19.7	PASS
BLE_1M	Ant1	2440	1000~26500	0.30	-43.34	≤-19.7	PASS
BLE_1M	Ant1	2480	0~Reference	0.21	0.21	---	PASS
BLE_1M	Ant1	2480	30~1000	0.21	-58.28	≤-19.79	PASS
BLE_1M	Ant1	2480	1000~26500	0.21	-43.75	≤-19.79	PASS
BLE_2M	Ant1	2402	0~Reference	-1.19	-1.19	---	PASS
BLE_2M	Ant1	2402	30~1000	-1.19	-57.98	≤-21.19	PASS
BLE_2M	Ant1	2402	1000~26500	-1.19	-43.78	≤-21.19	PASS
BLE_2M	Ant1	2440	0~Reference	-2.69	-2.69	---	PASS
BLE_2M	Ant1	2440	30~1000	-2.69	-57.96	≤-22.69	PASS
BLE_2M	Ant1	2440	1000~26500	-2.69	-40.94	≤-22.69	PASS
BLE_2M	Ant1	2480	0~Reference	0.81	0.81	---	PASS
BLE_2M	Ant1	2480	30~1000	0.81	-58.06	≤-19.19	PASS
BLE_2M	Ant1	2480	1000~26500	0.81	-43.78	≤-19.19	PASS

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

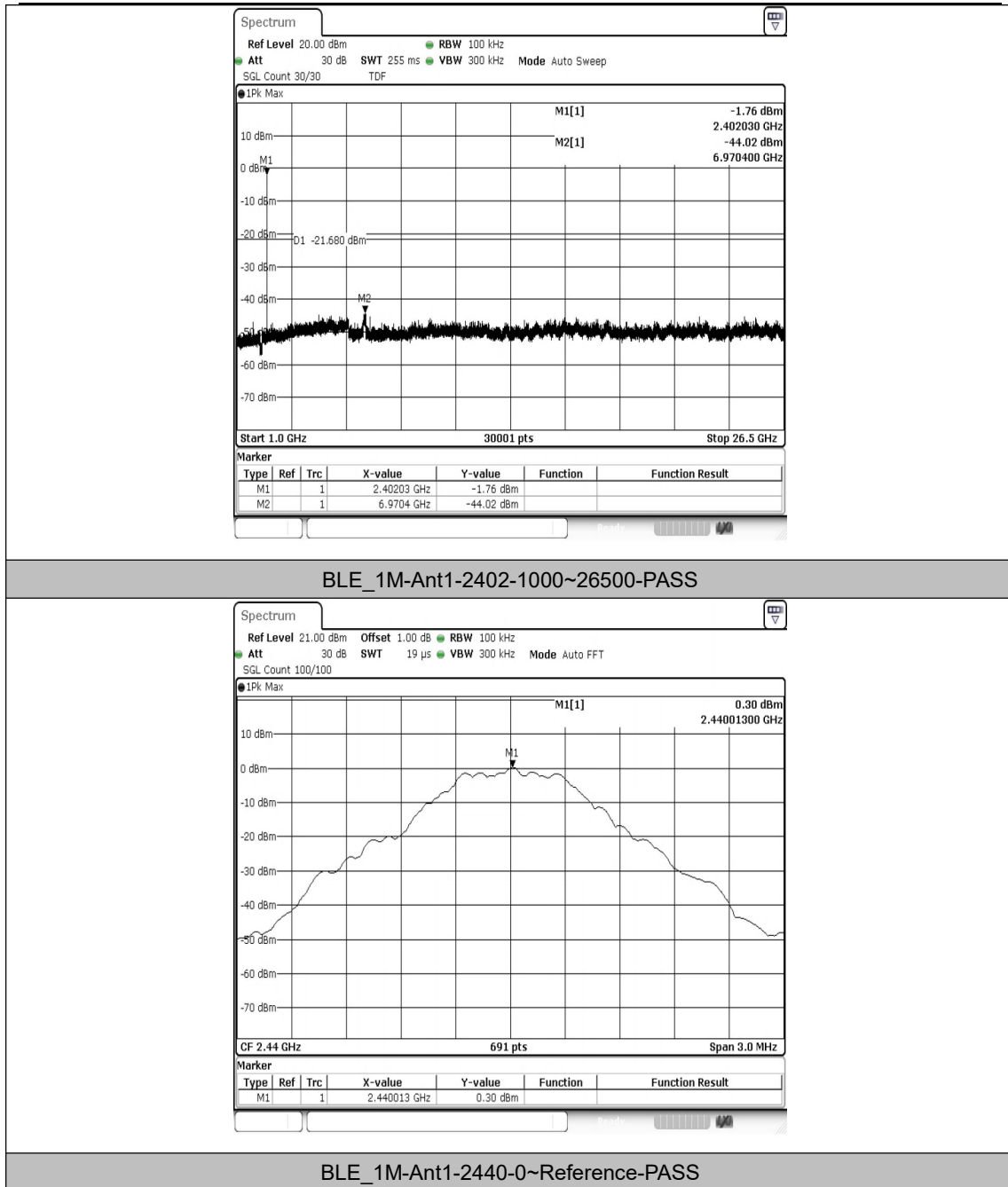
Test Graphs



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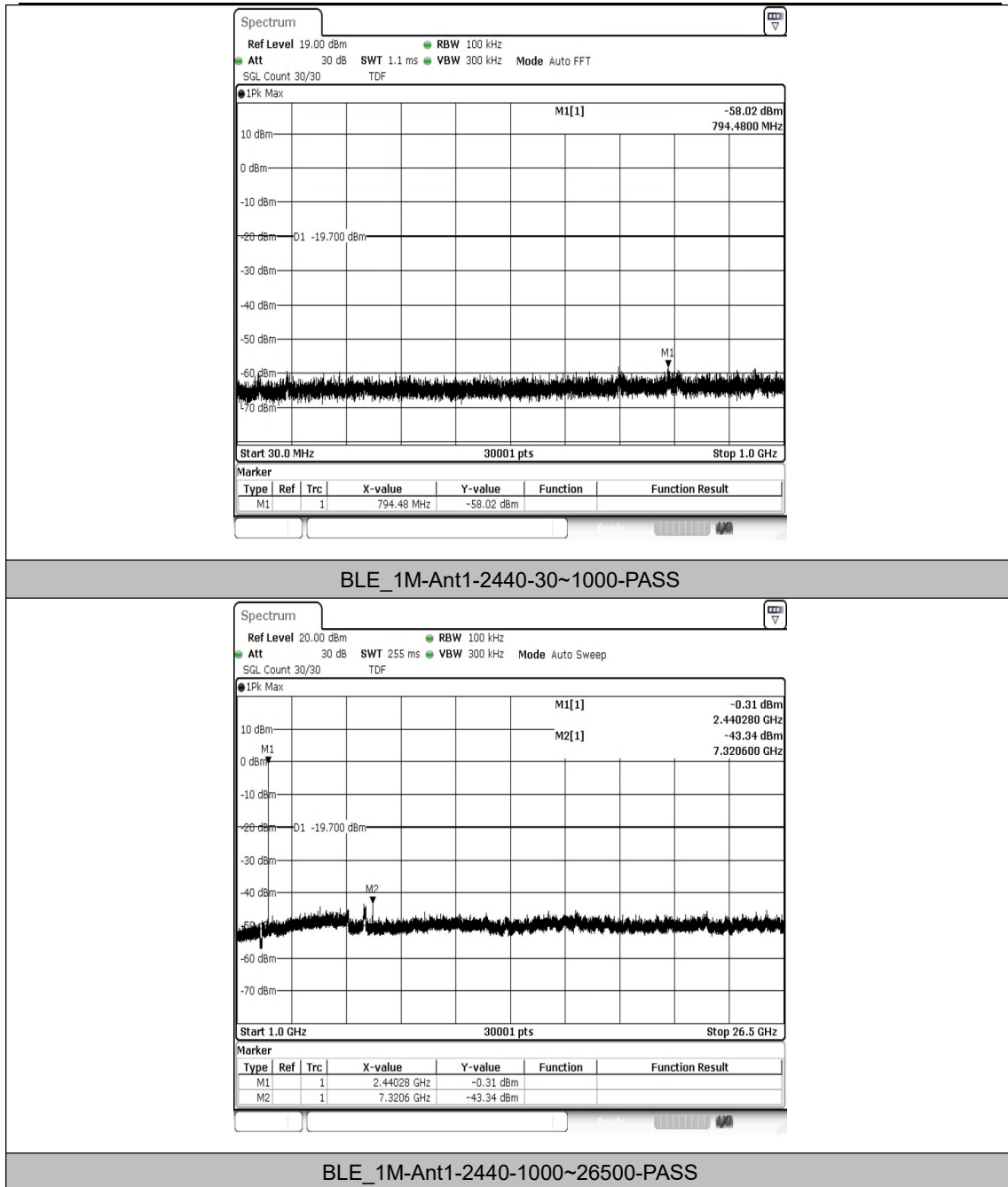
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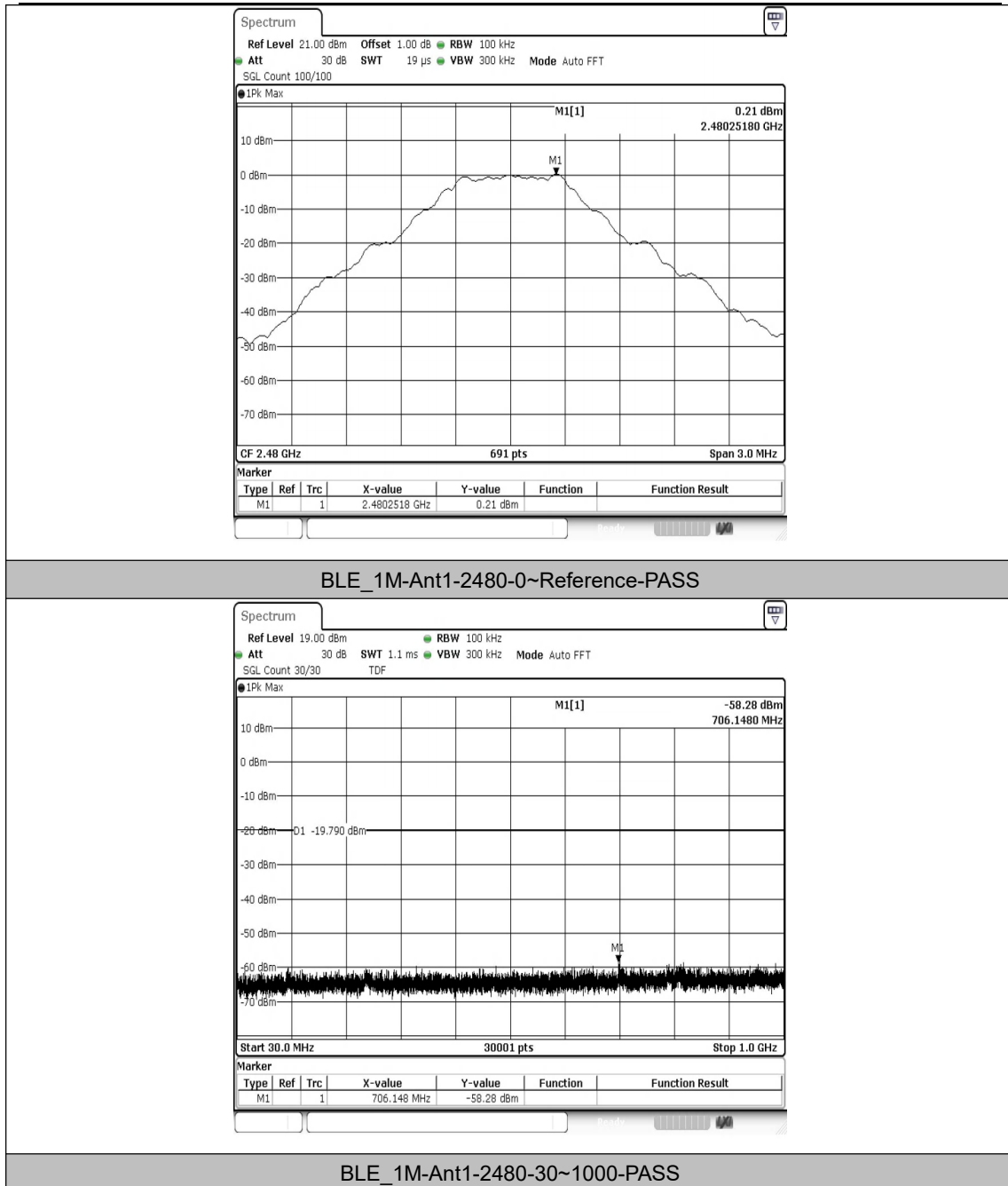
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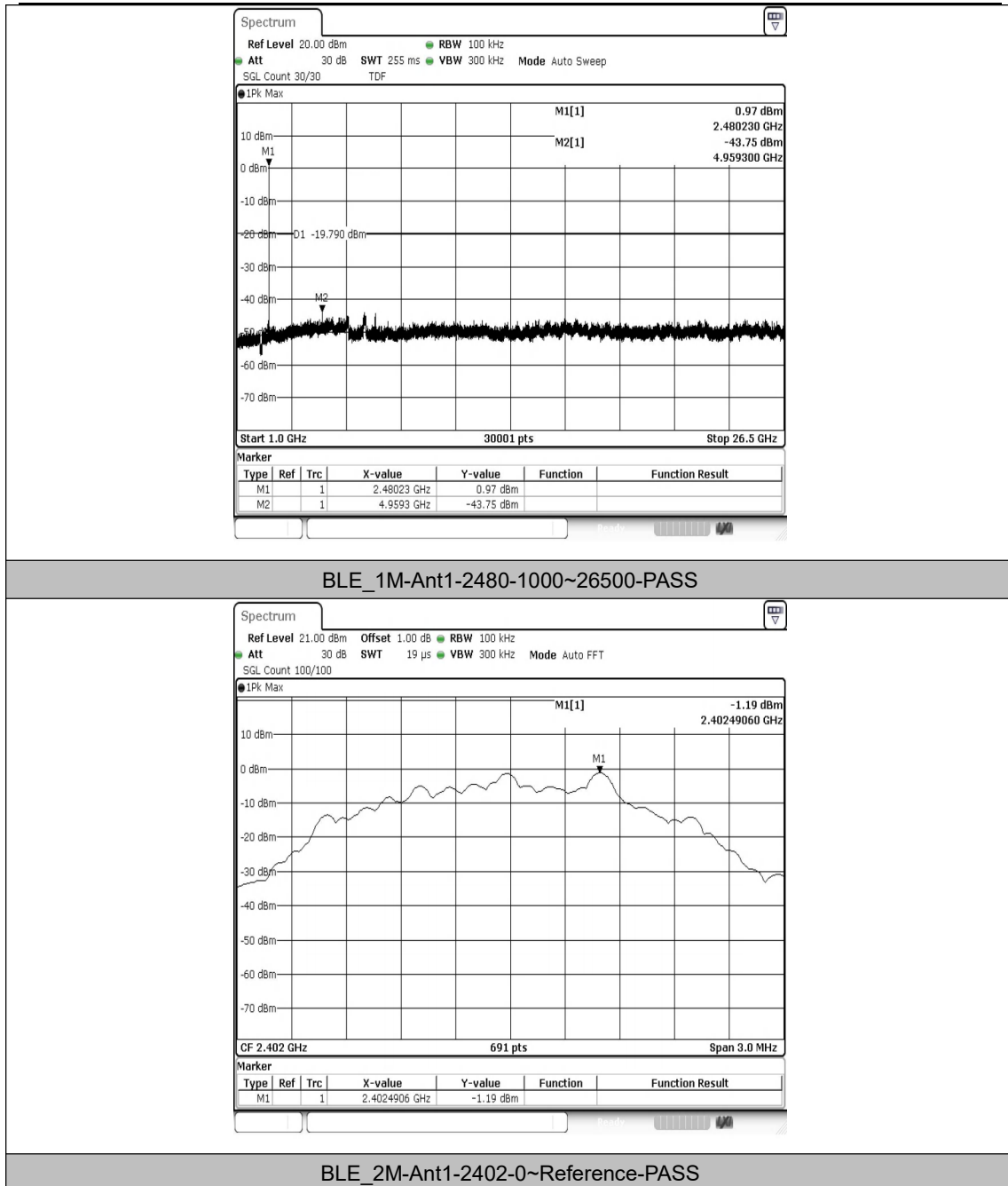
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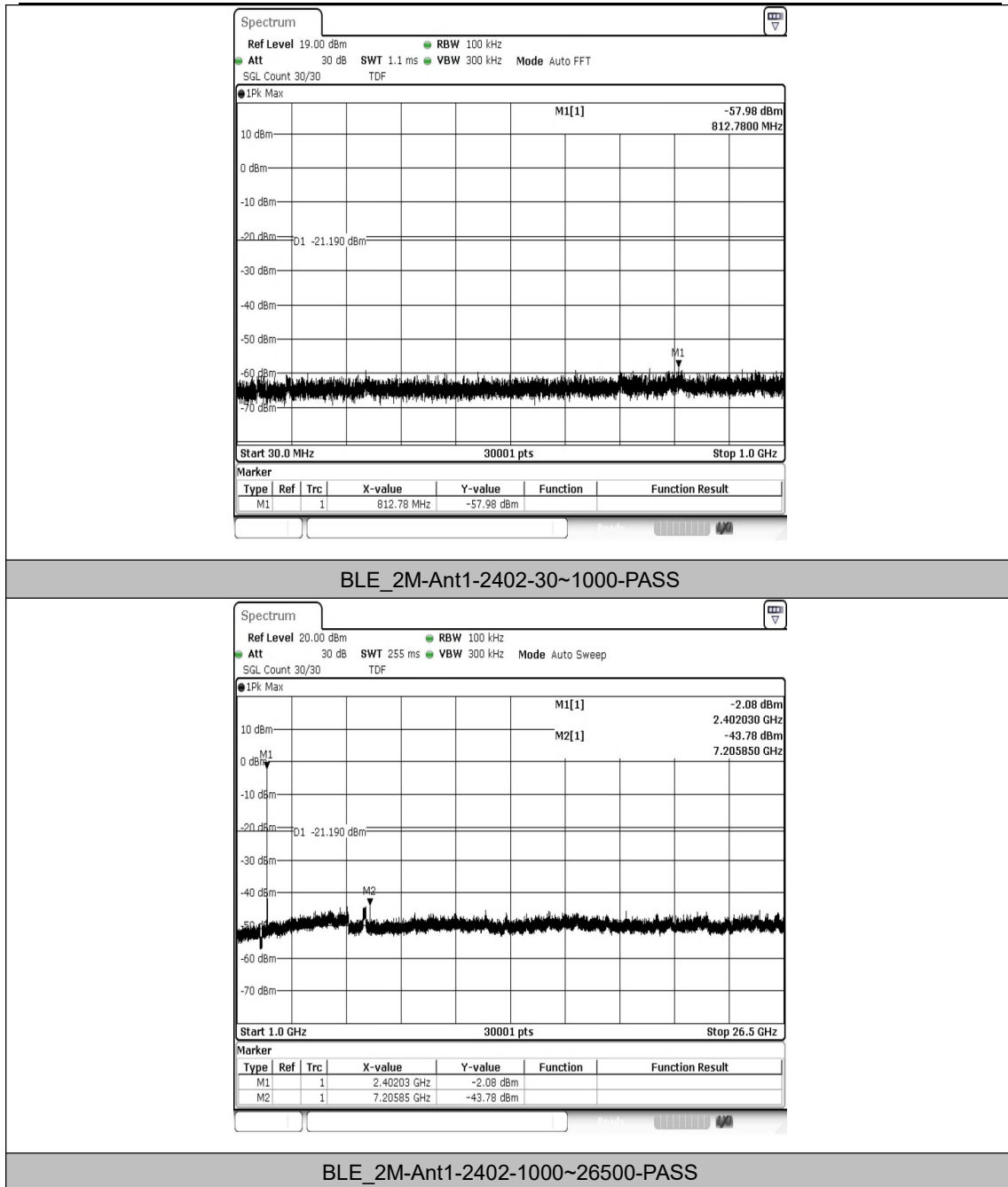
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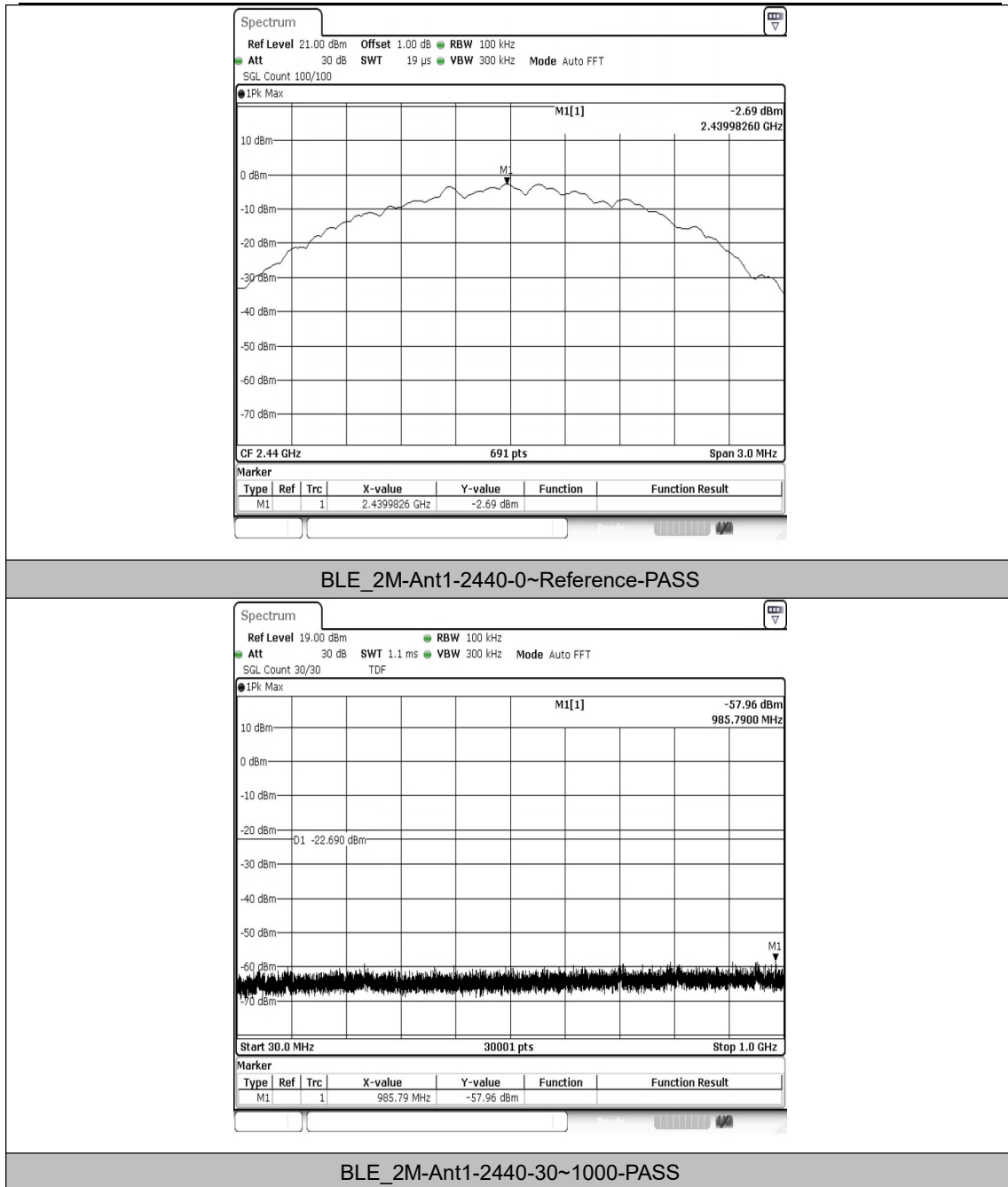
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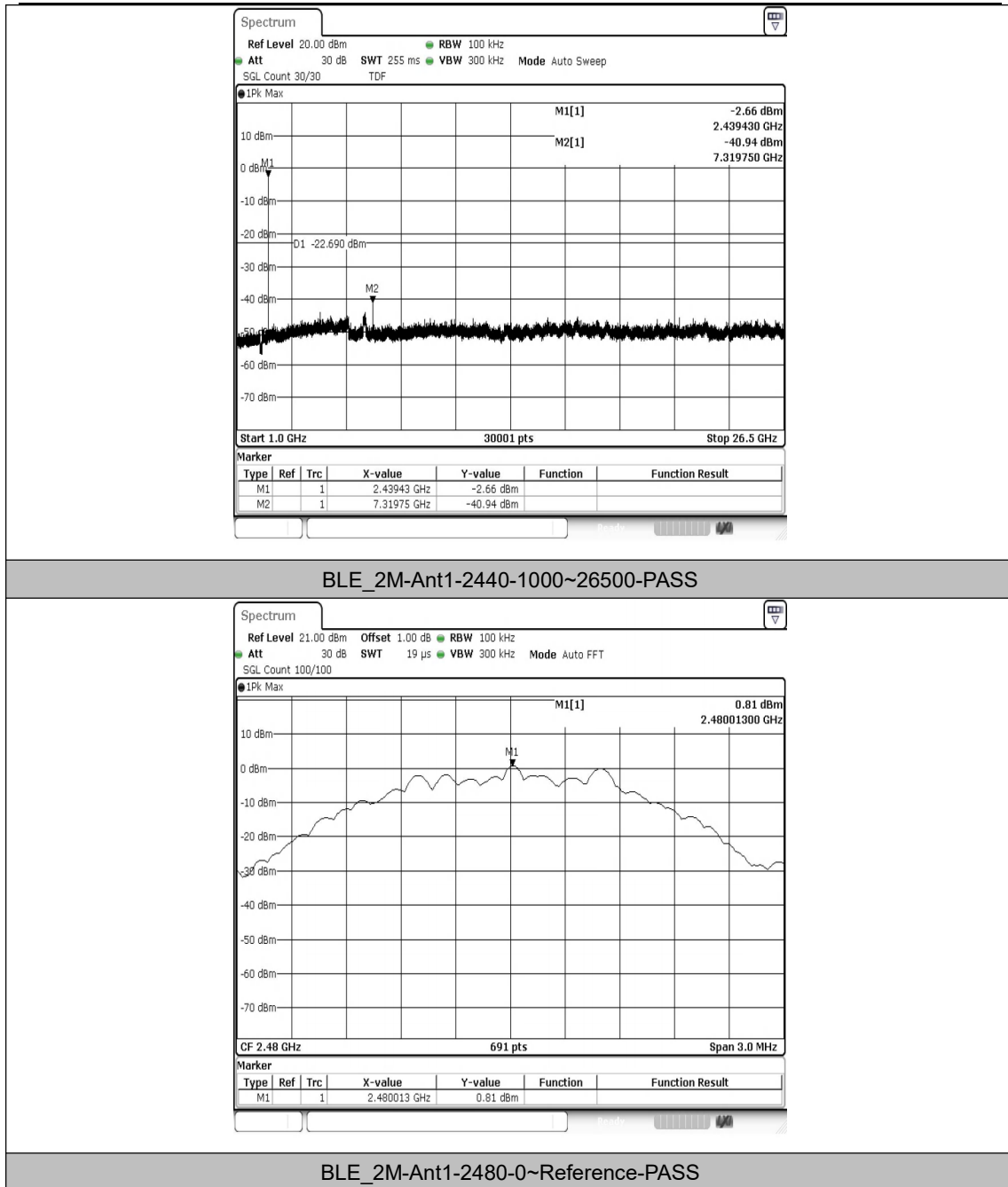
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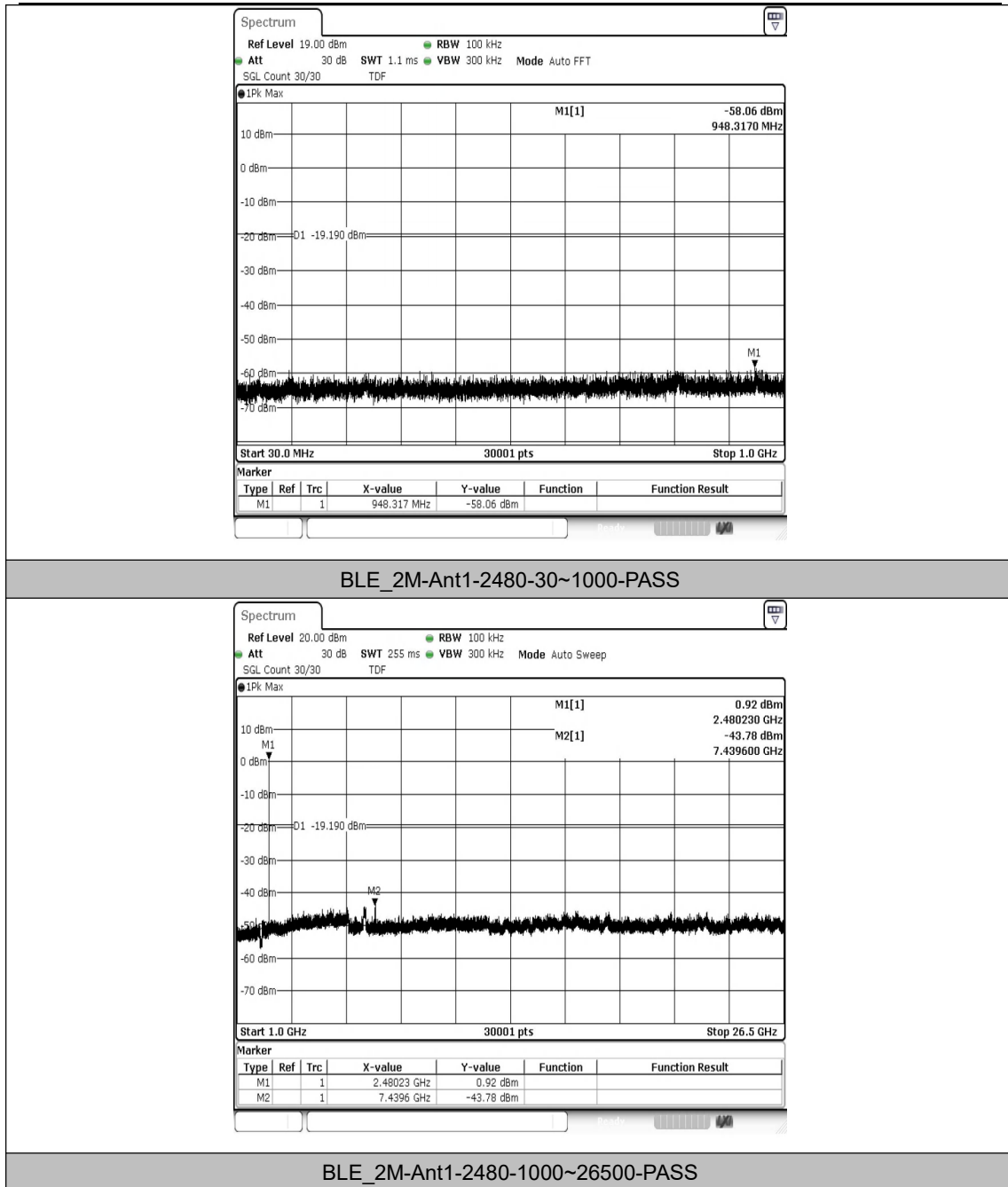
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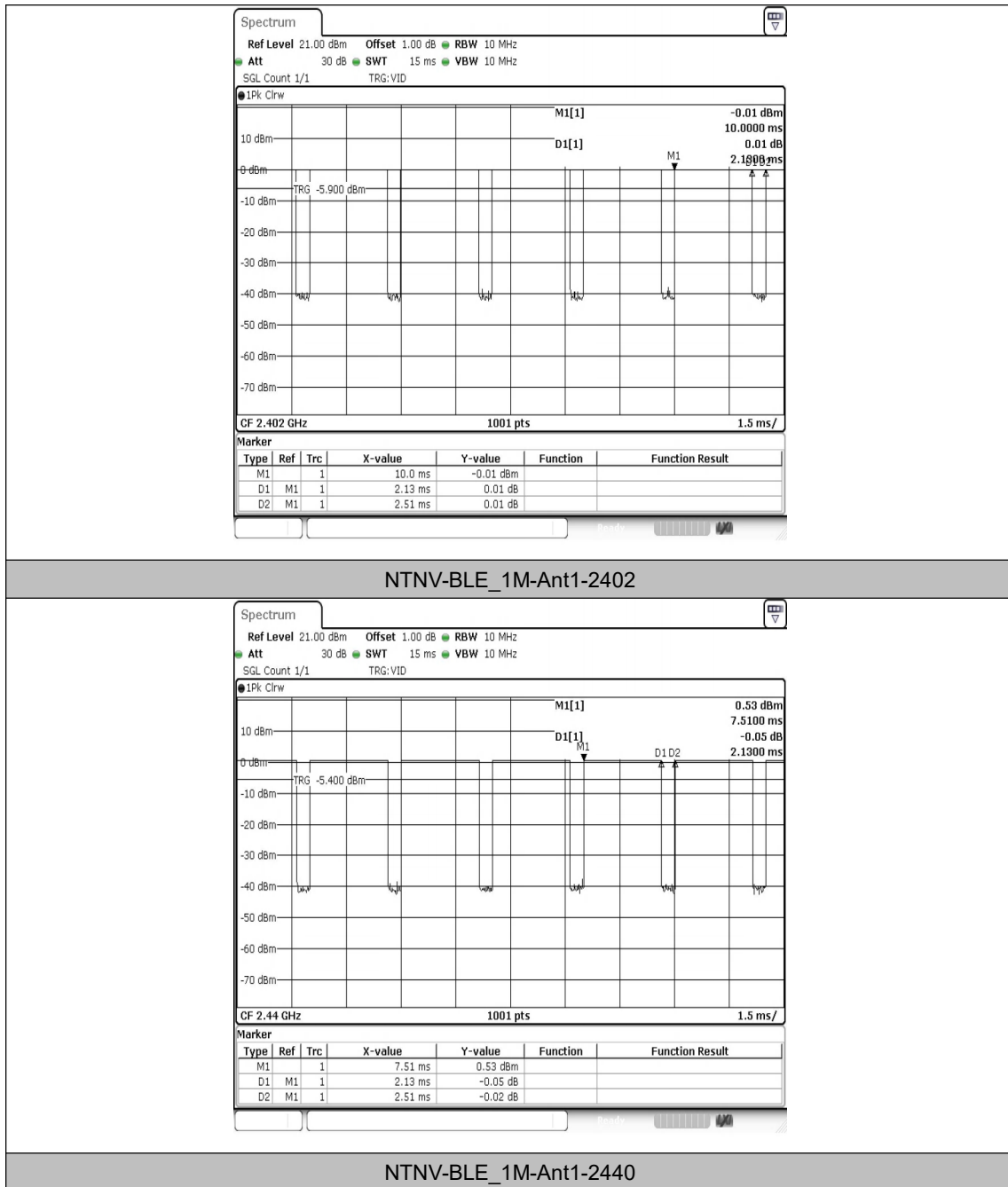
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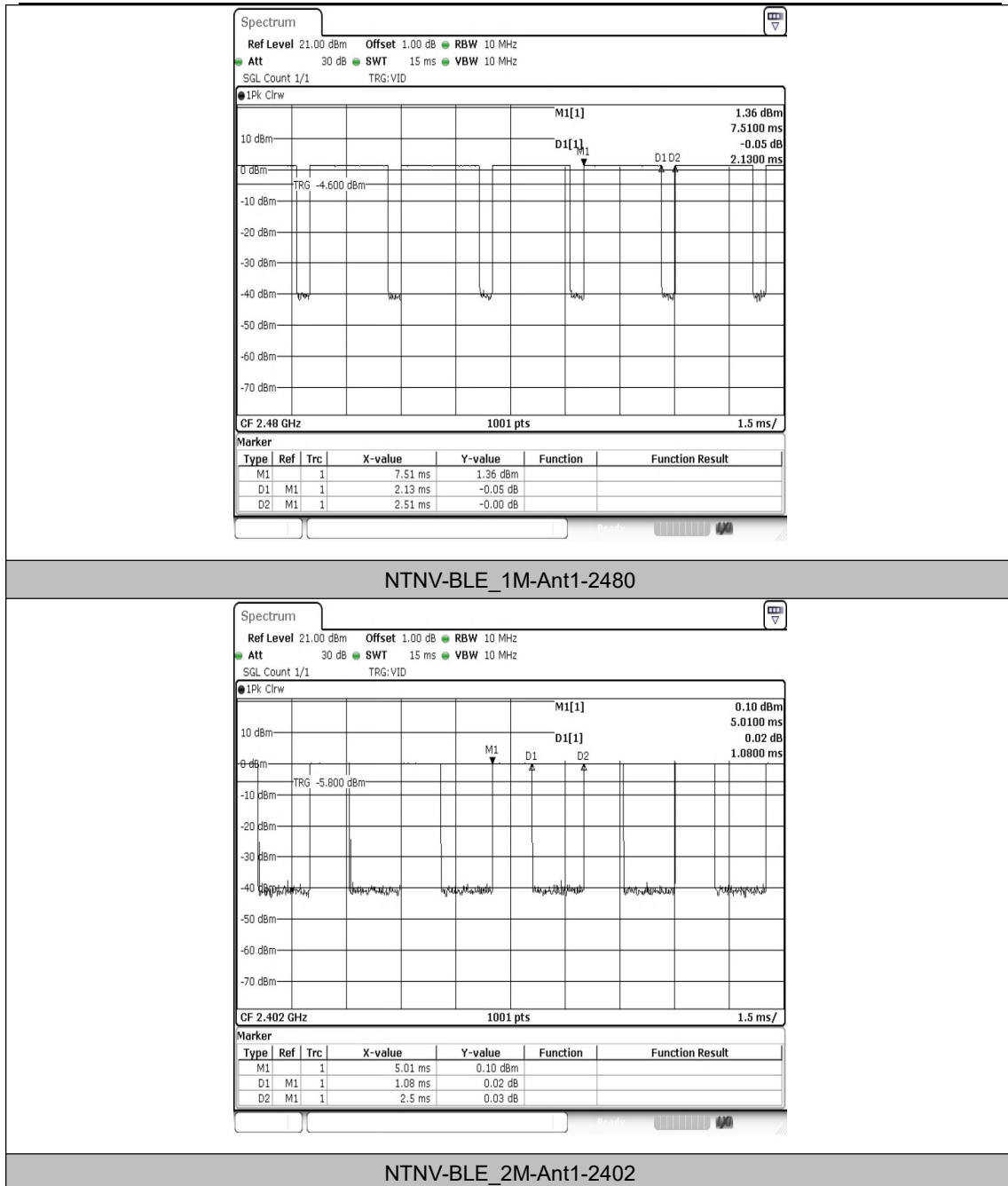
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	2.51	84.86	0.71
BLE_1M	Ant1	2440	2.13	2.51	84.86	0.71
BLE_1M	Ant1	2480	2.13	2.51	84.86	0.71
BLE_2M	Ant1	2402	1.08	2.50	43.20	3.65
BLE_2M	Ant1	2440	1.08	2.50	43.20	3.65
BLE_2M	Ant1	2480	1.08	2.50	43.20	3.65

Test Graphs

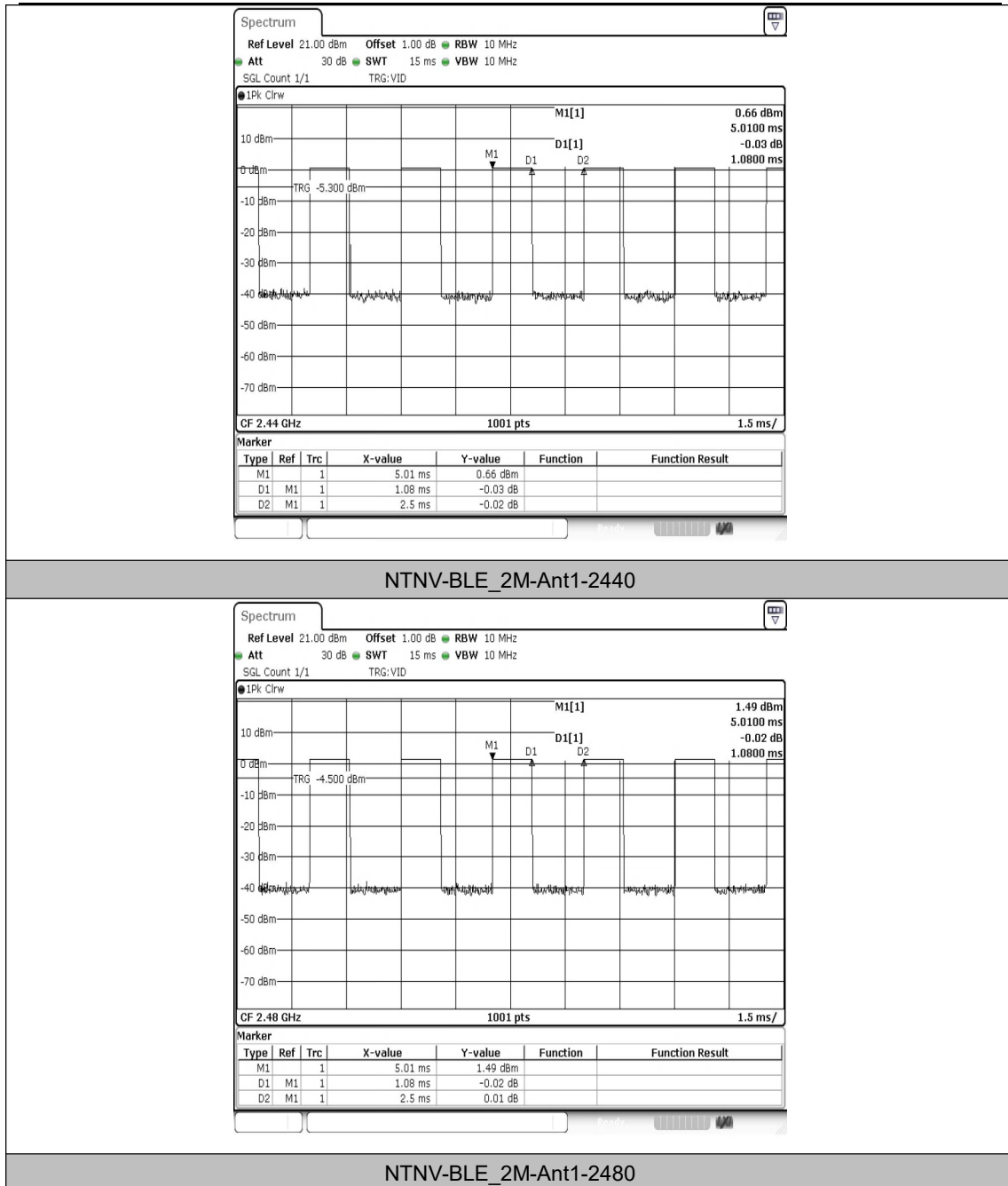




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