

Appendix Test Data

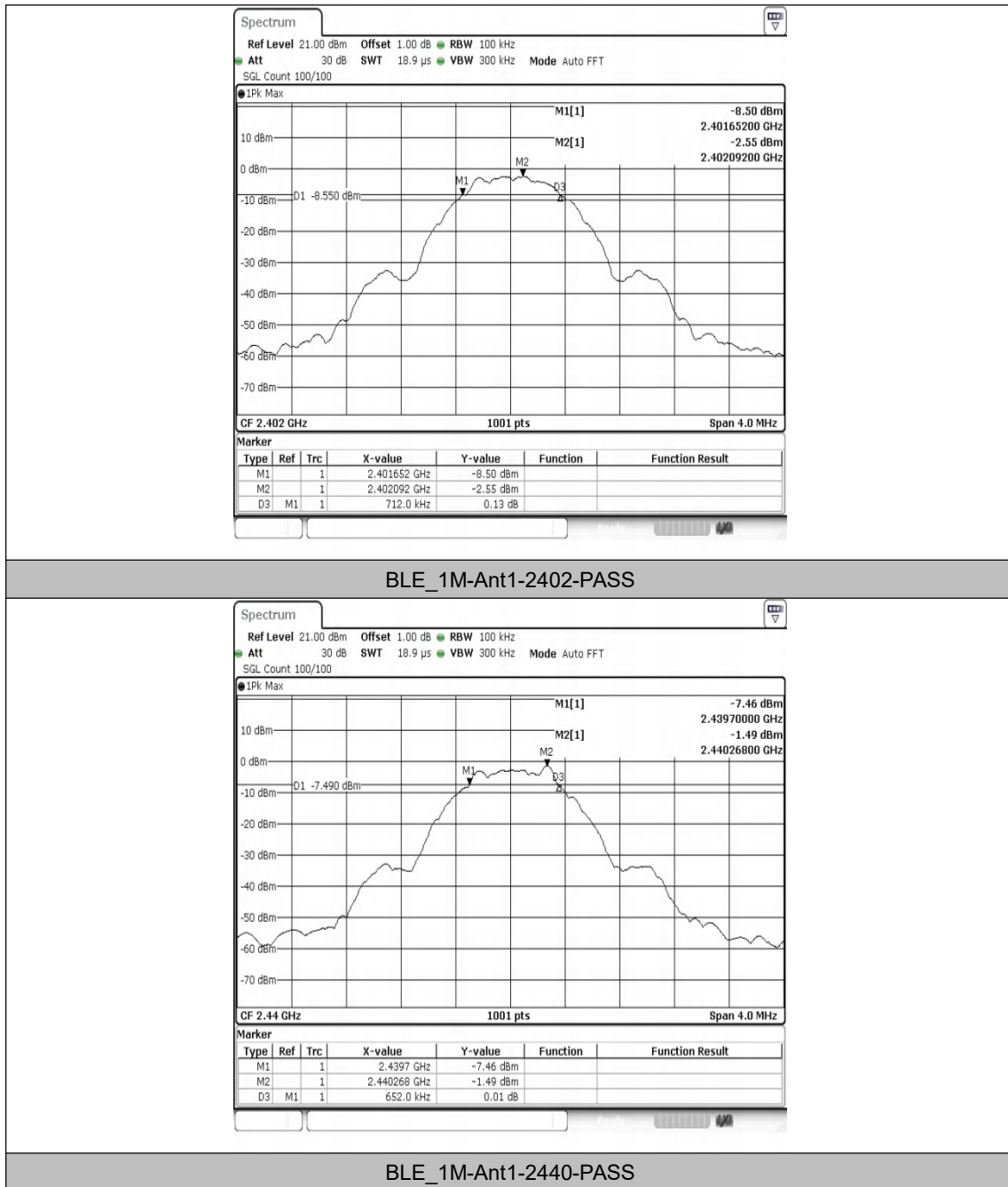
Report No.:	1812C50391512502	Test Sample No.:	1-2-2
Start Test Date:	2025-8-7	Finish Test Date:	2025-8-15
Test Engineer:	<i>dylan. Ma</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.9°C	Relative Humidity:	58%
Pressure:	101kPa		

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	2401.65	2402.36	0.5	PASS
BLE_1M	Ant1	2440	0.65	2439.70	2440.35	0.5	PASS
BLE_1M	Ant1	2480	0.73	2479.64	2480.36	0.5	PASS
BLE_2M	Ant1	2402	1.14	2401.46	2402.60	0.5	PASS
BLE_2M	Ant1	2440	1.37	2439.32	2440.70	0.5	PASS
BLE_2M	Ant1	2480	0.95	2479.60	2480.55	0.5	PASS

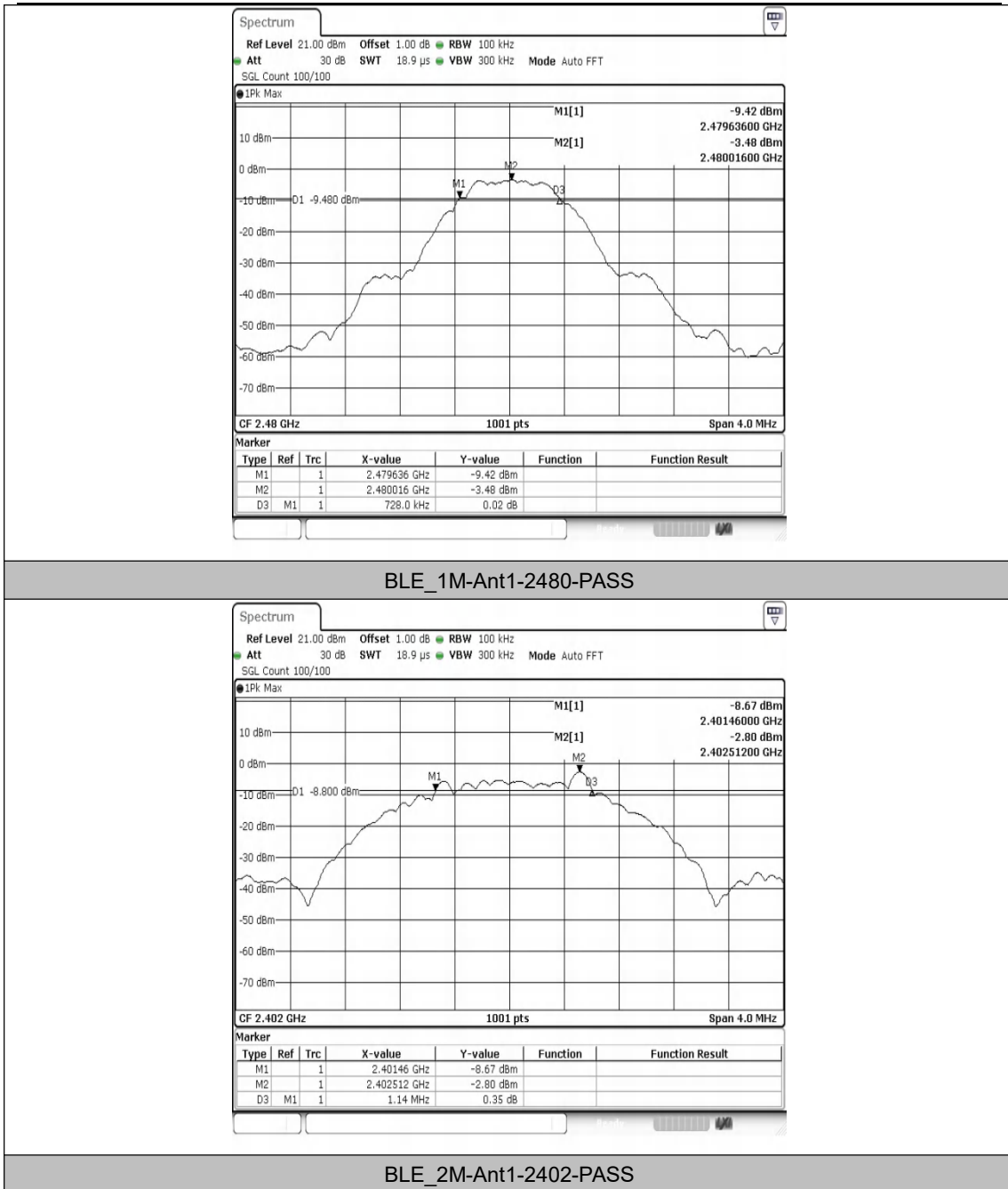
Test Graphs



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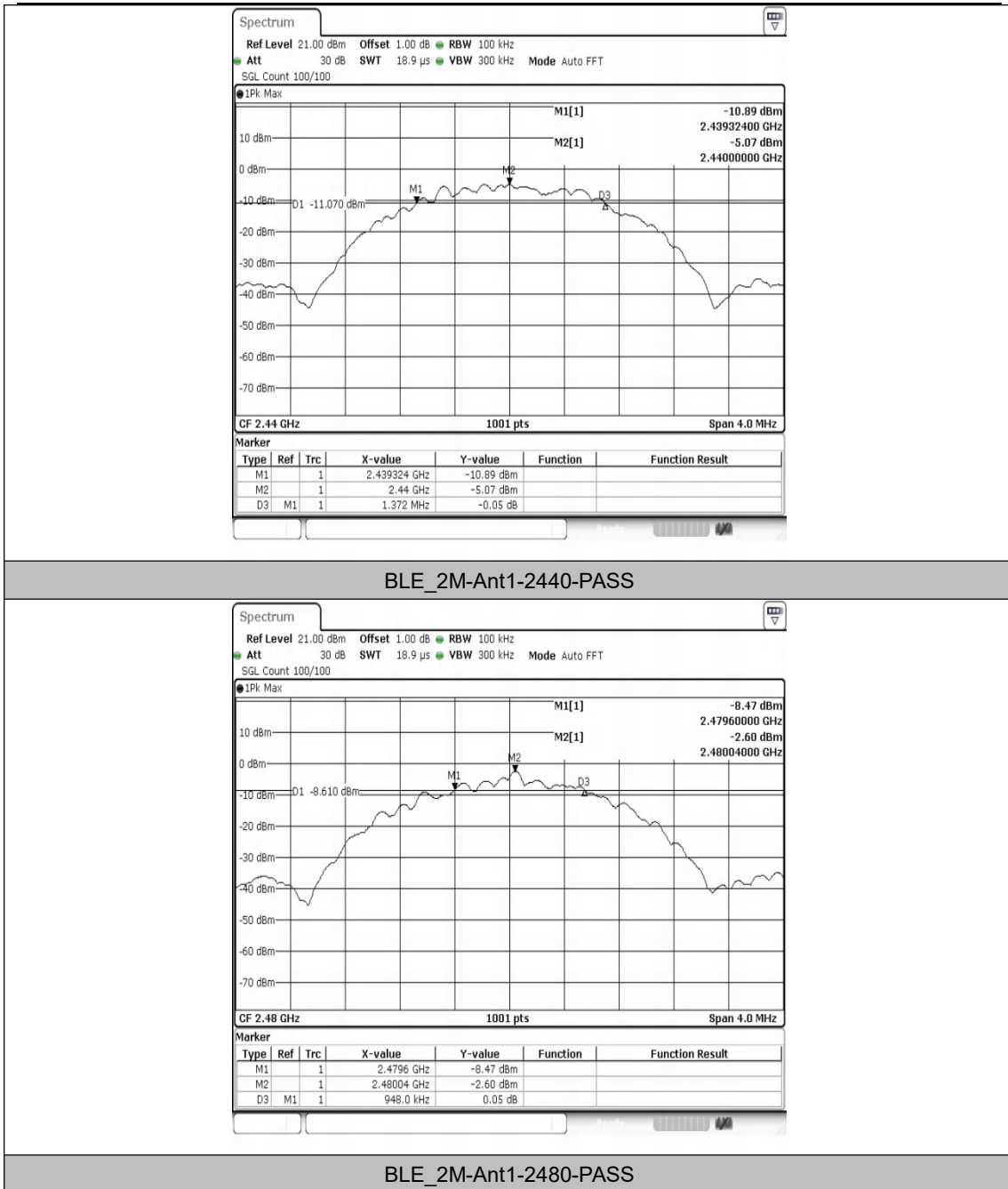
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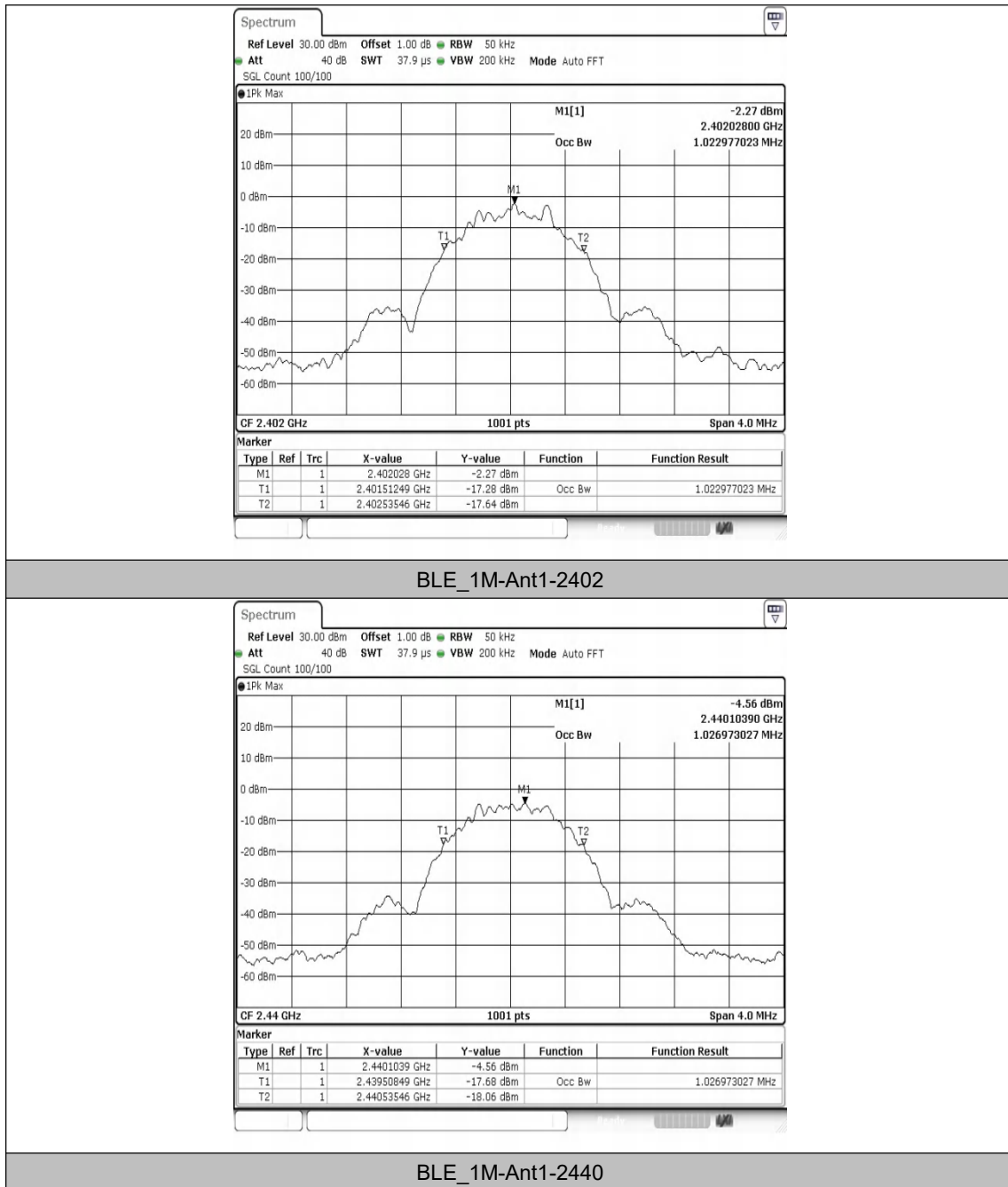
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Appendix B: 99% Occupied Bandwidth**Test Result**

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0230	2401.5125	2402.5355	---	---
BLE_1M	Ant1	2440	1.0270	2439.5085	2440.5355	---	---
BLE_1M	Ant1	2480	1.0350	2479.5005	2480.5355	---	---
BLE_2M	Ant1	2402	2.0500	2401.0050	2403.0549	---	---
BLE_2M	Ant1	2440	2.0699	2439.0010	2441.0709	---	---
BLE_2M	Ant1	2480	2.0579	2479.0050	2481.0629	---	---

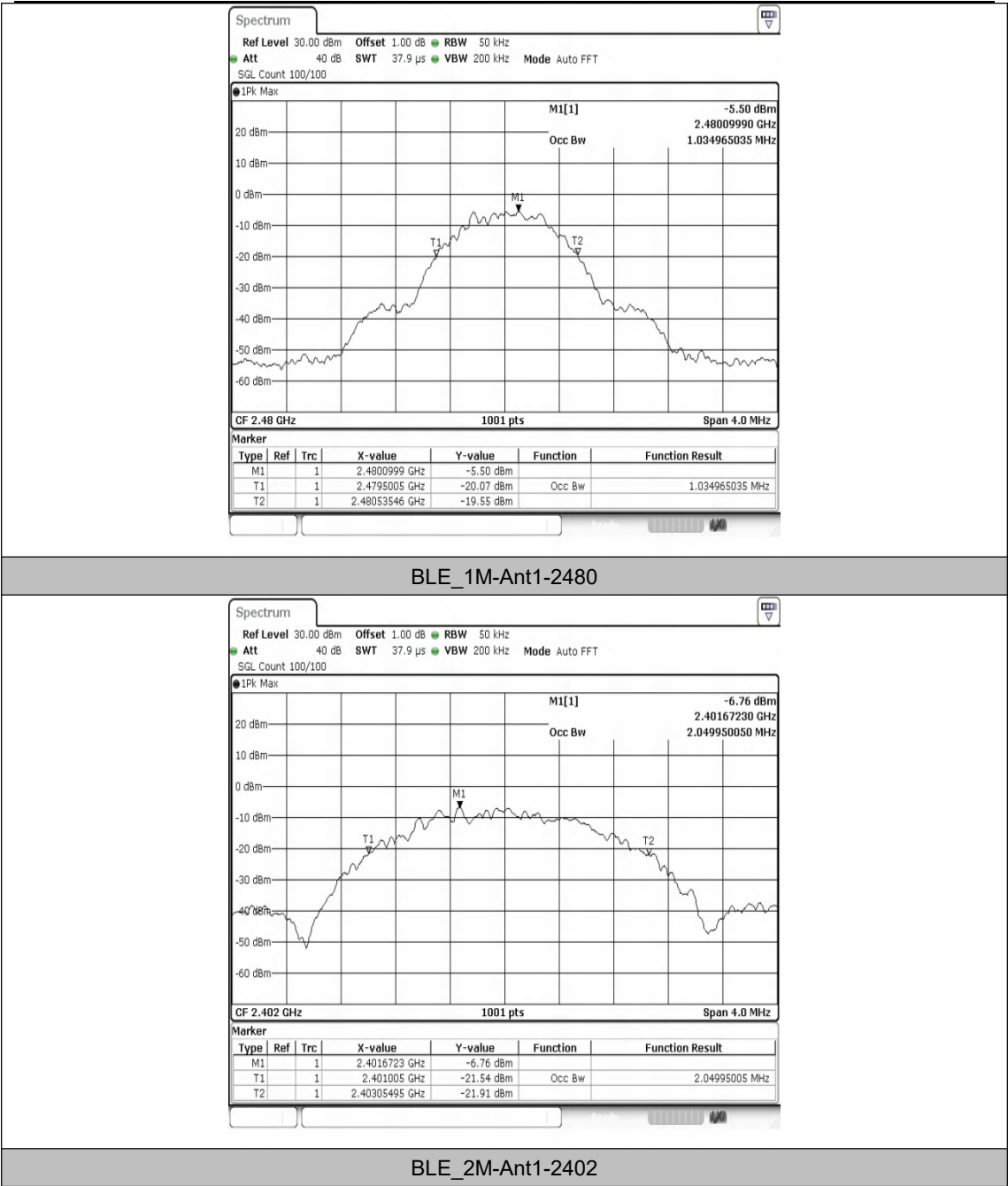
Test Graphs

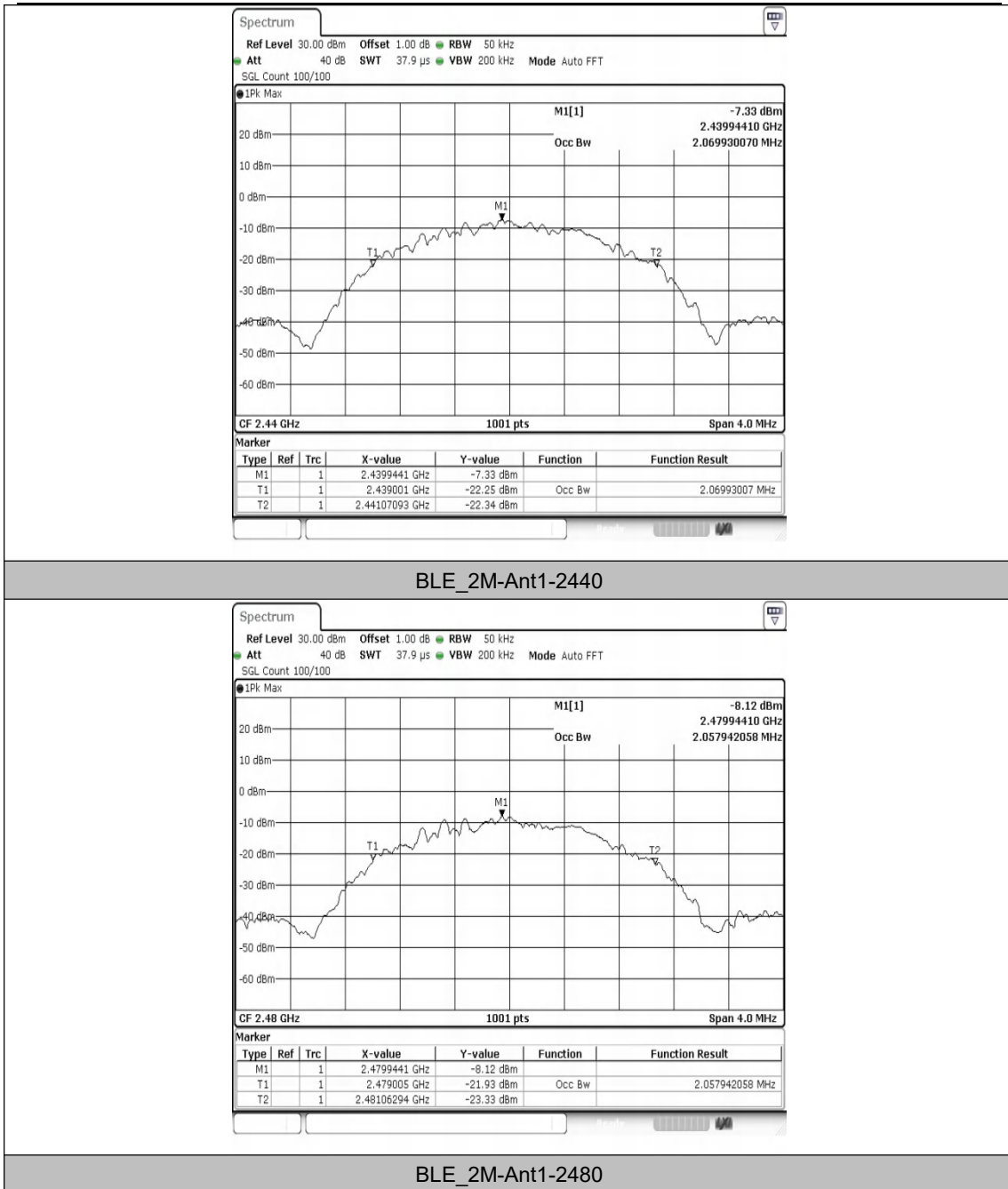


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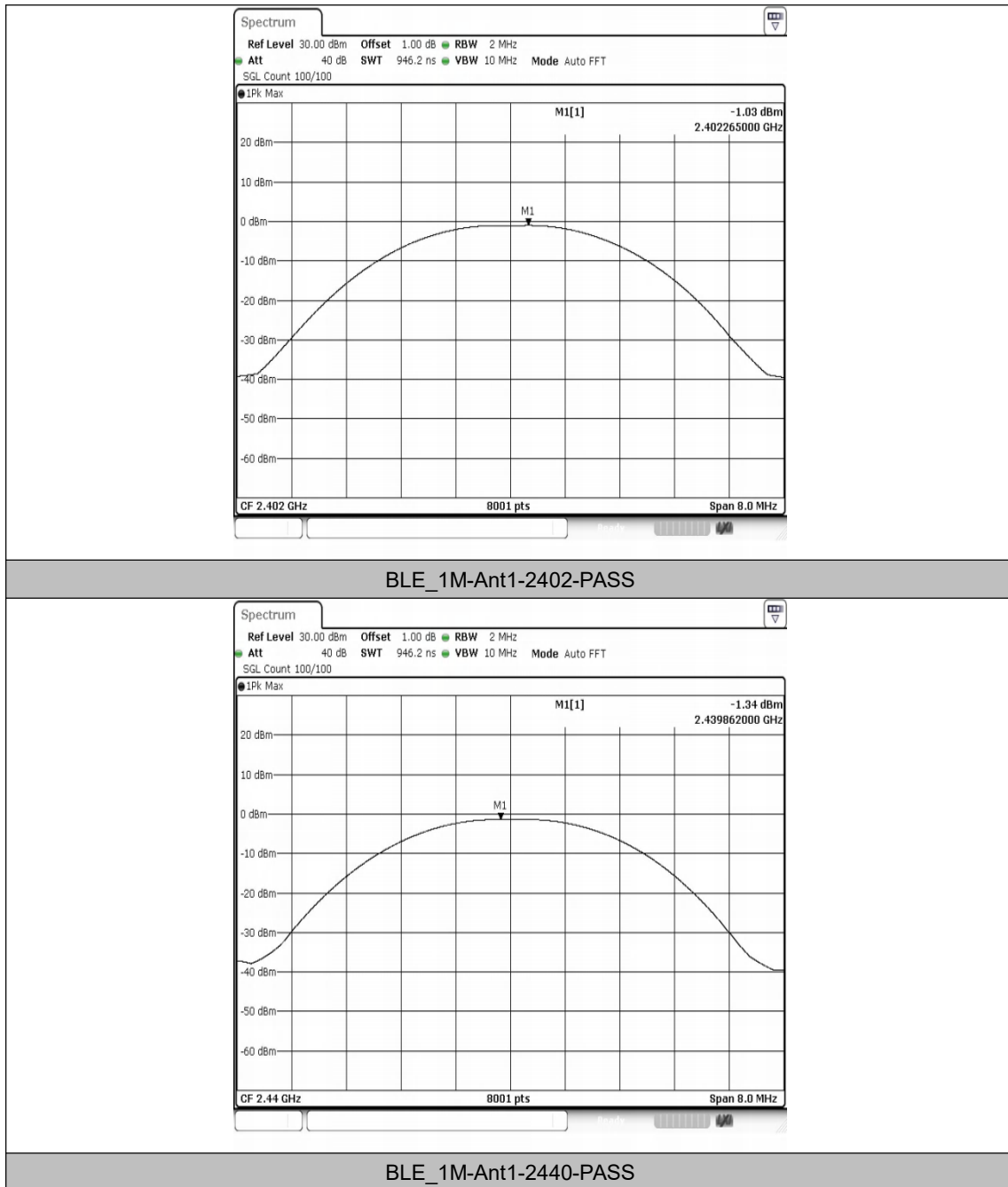


Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE_1M	Ant1	2402	-1.03	≤30	PASS
BLE_1M	Ant1	2440	-1.34	≤30	PASS
BLE_1M	Ant1	2480	-2.21	≤30	PASS
BLE_2M	Ant1	2402	-1.14	≤30	PASS
BLE_2M	Ant1	2440	-1.33	≤30	PASS
BLE_2M	Ant1	2480	-2.09	≤30	PASS

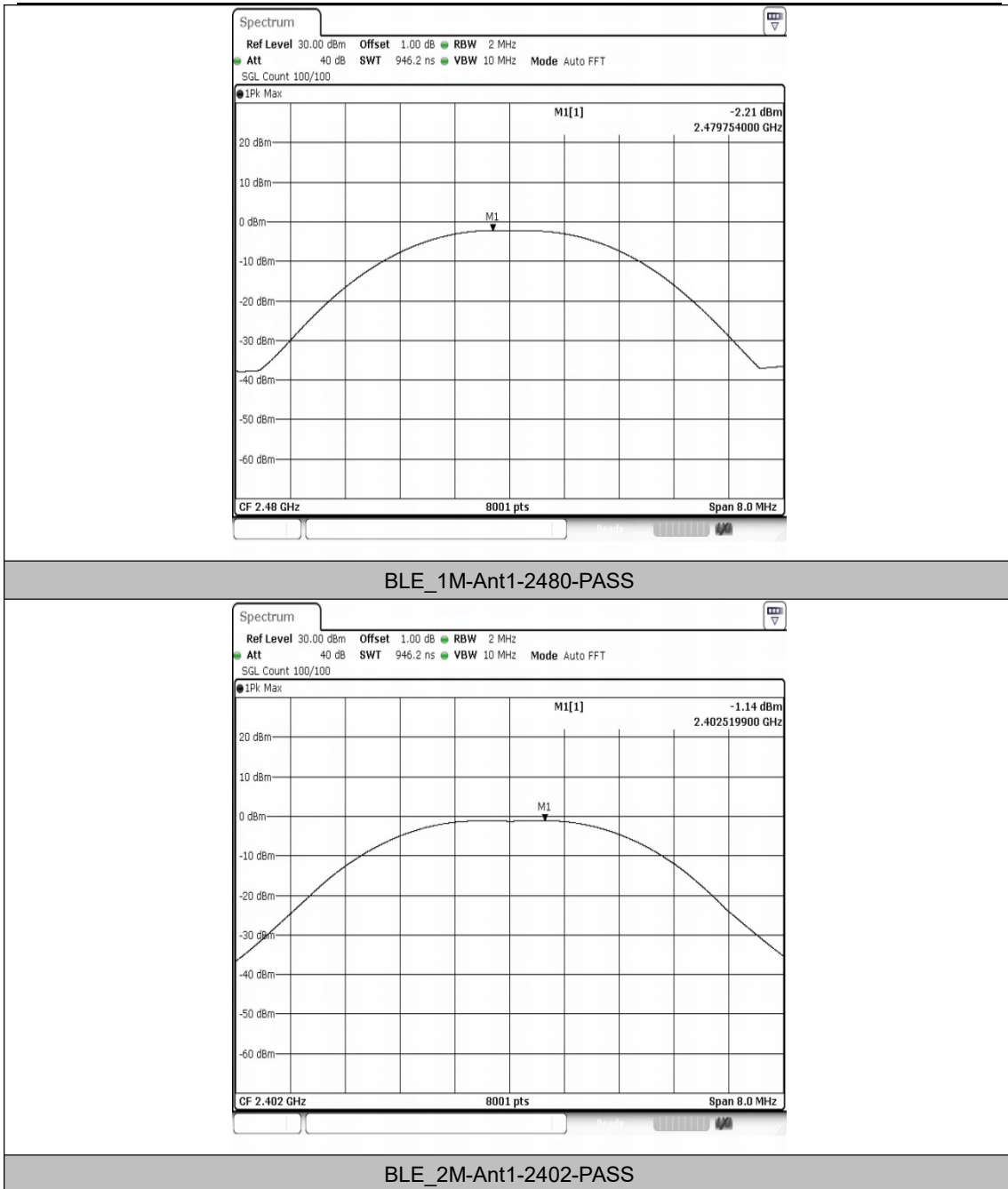
Test Graphs Peak



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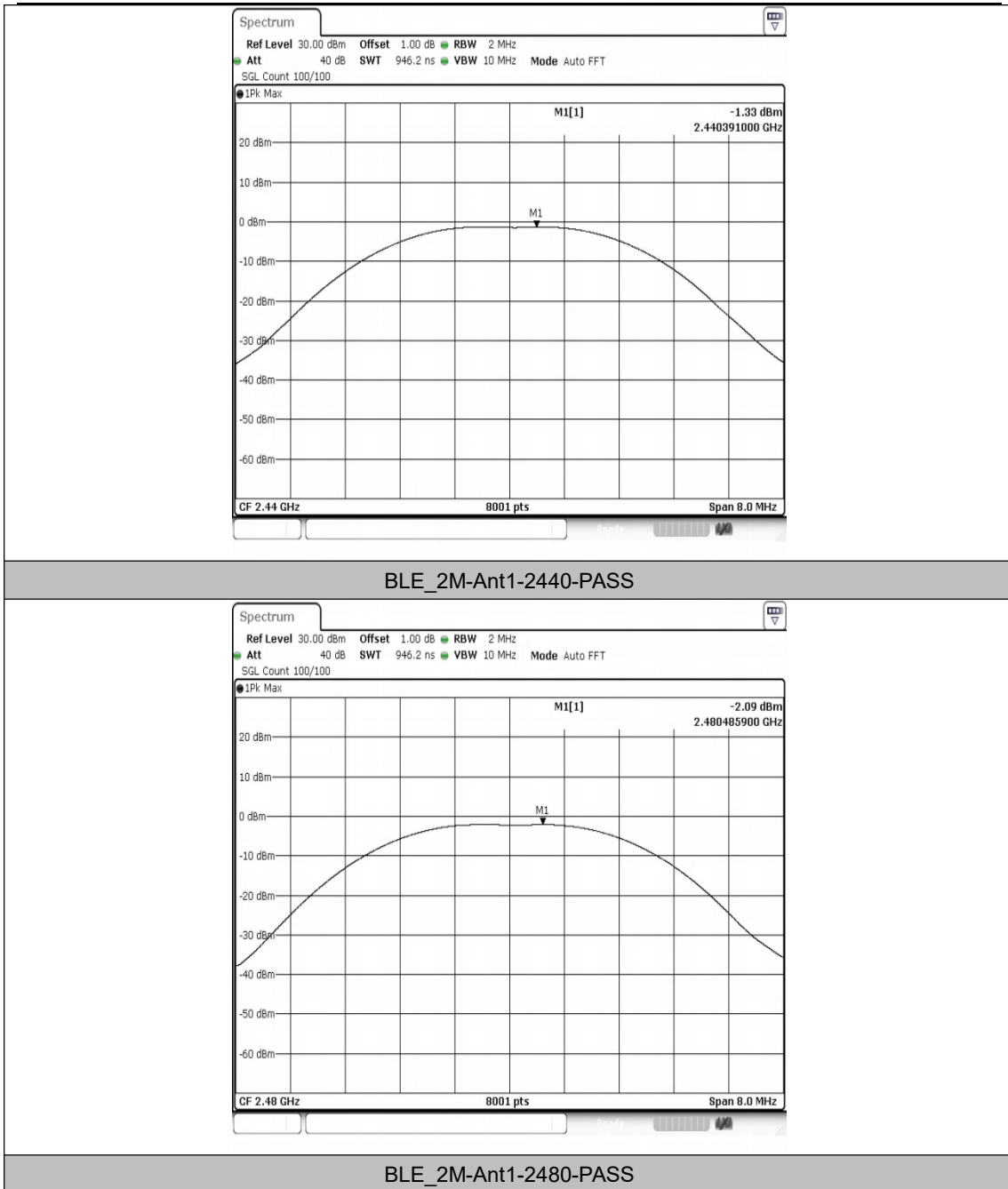
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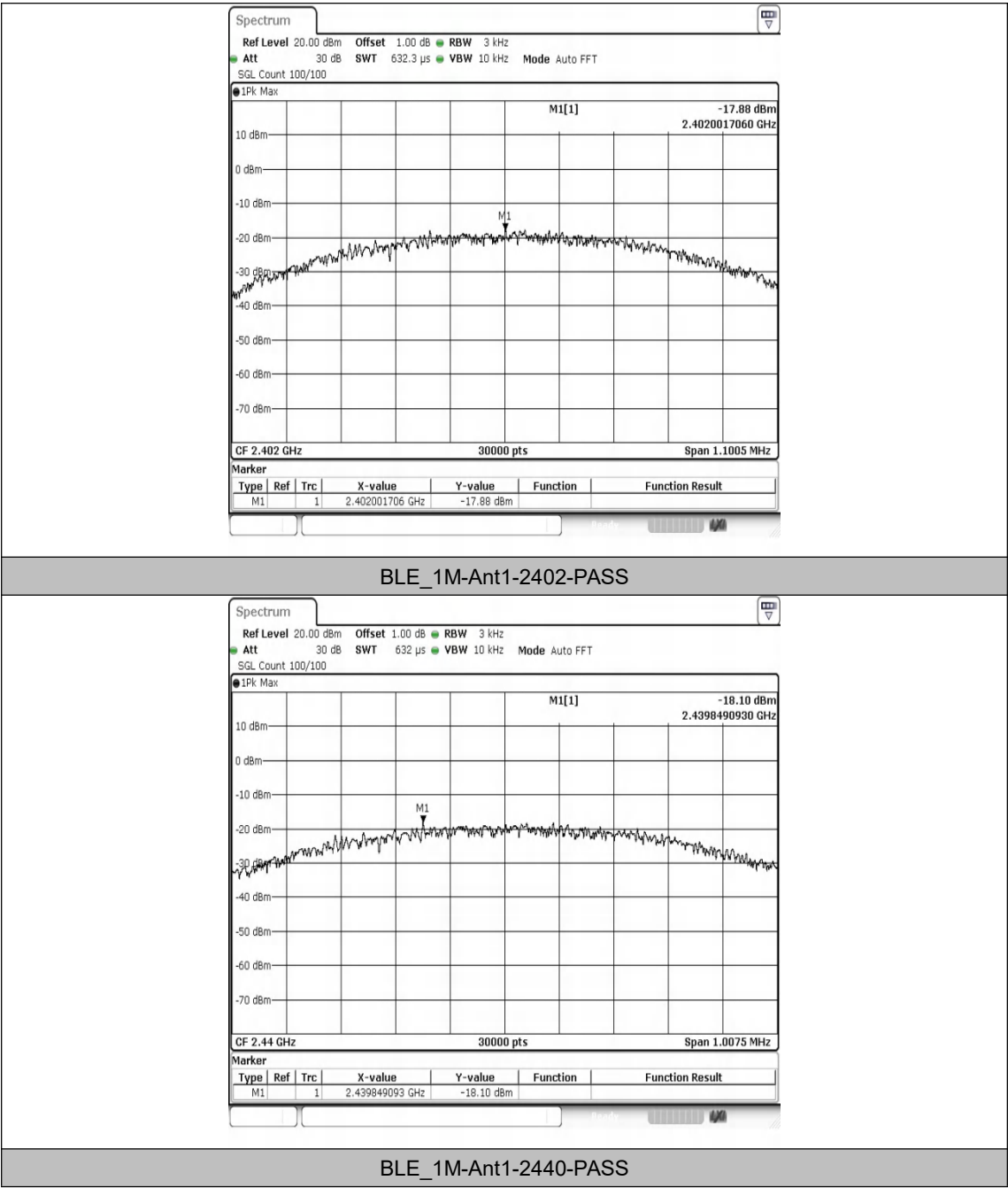
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.88	≤8.00	PASS
BLE_1M	Ant1	2440	-18.10	≤8.00	PASS
BLE_1M	Ant1	2480	-19.07	≤8.00	PASS
BLE_2M	Ant1	2402	-19.84	≤8.00	PASS
BLE_2M	Ant1	2440	-20.09	≤8.00	PASS
BLE_2M	Ant1	2480	-20.73	≤8.00	PASS

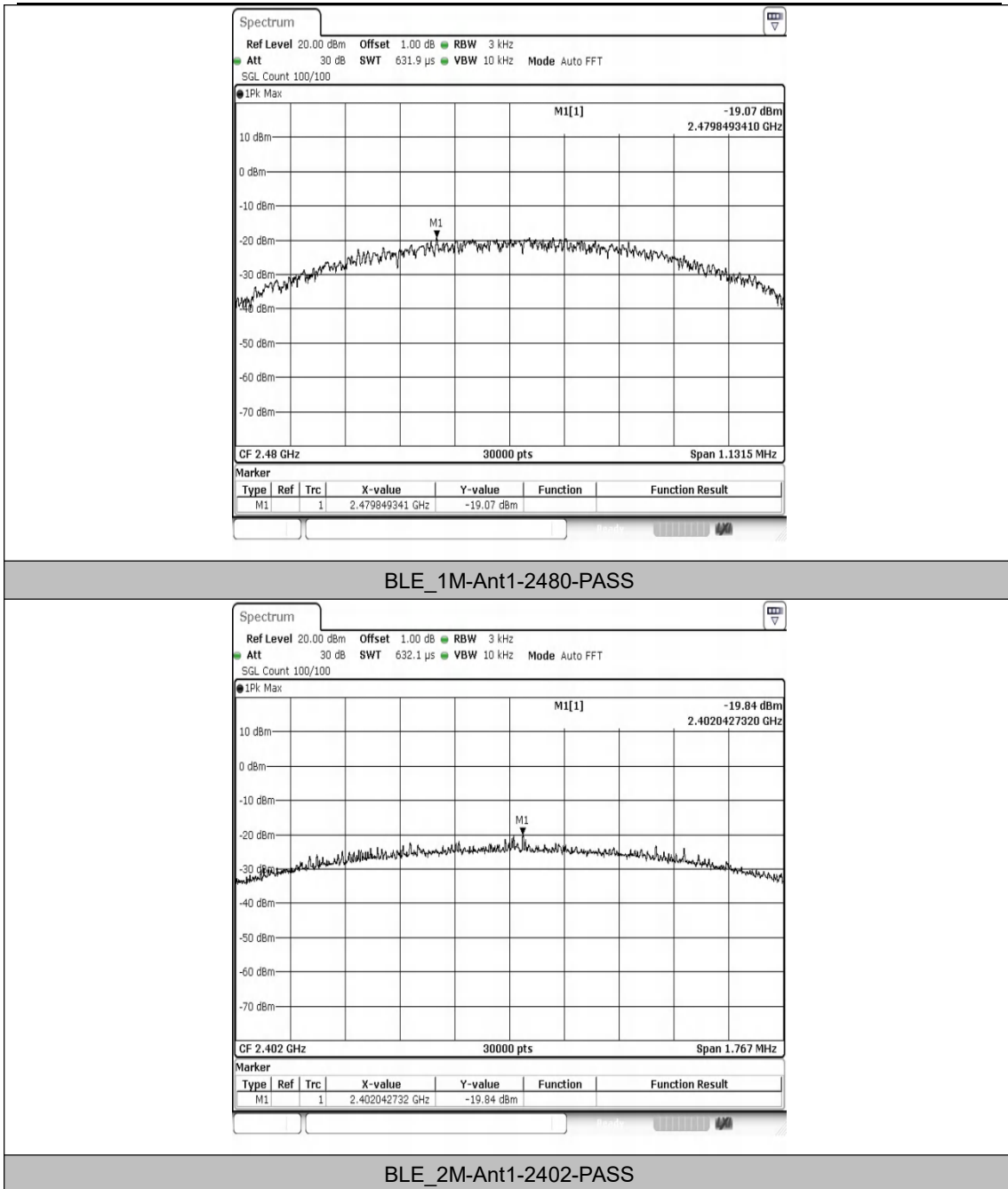
Test Graphs



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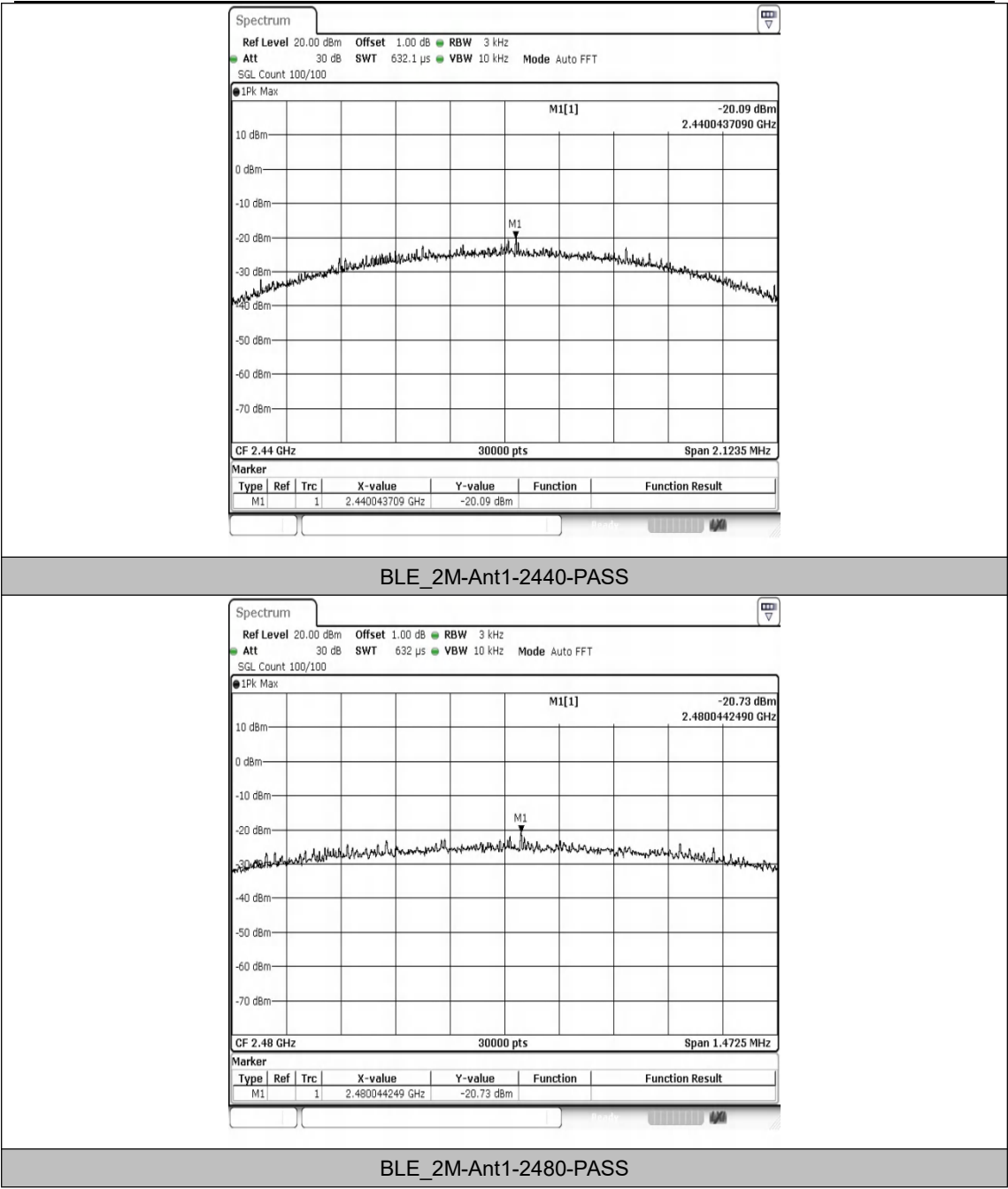
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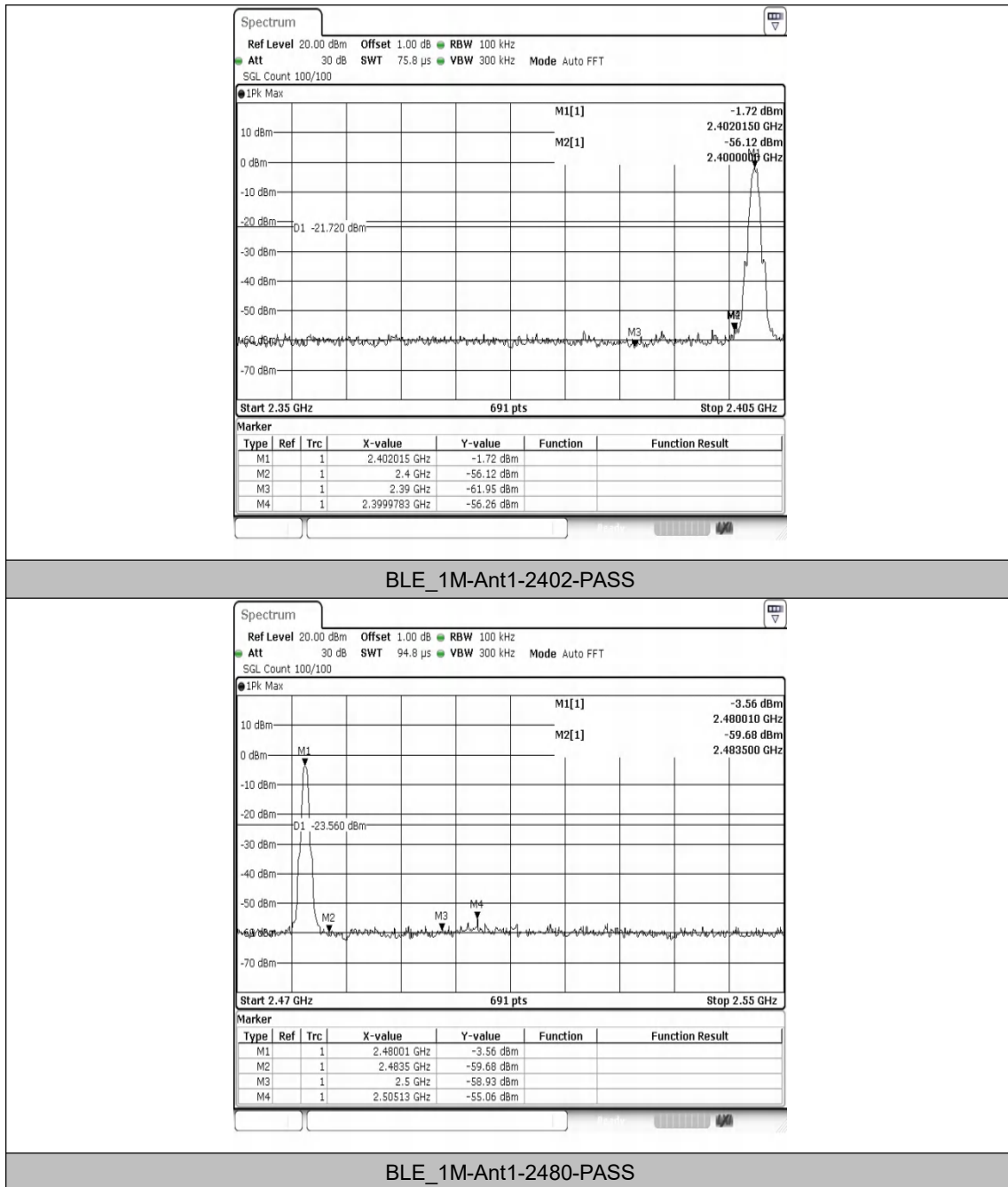
Appendix E: Band edge measurements

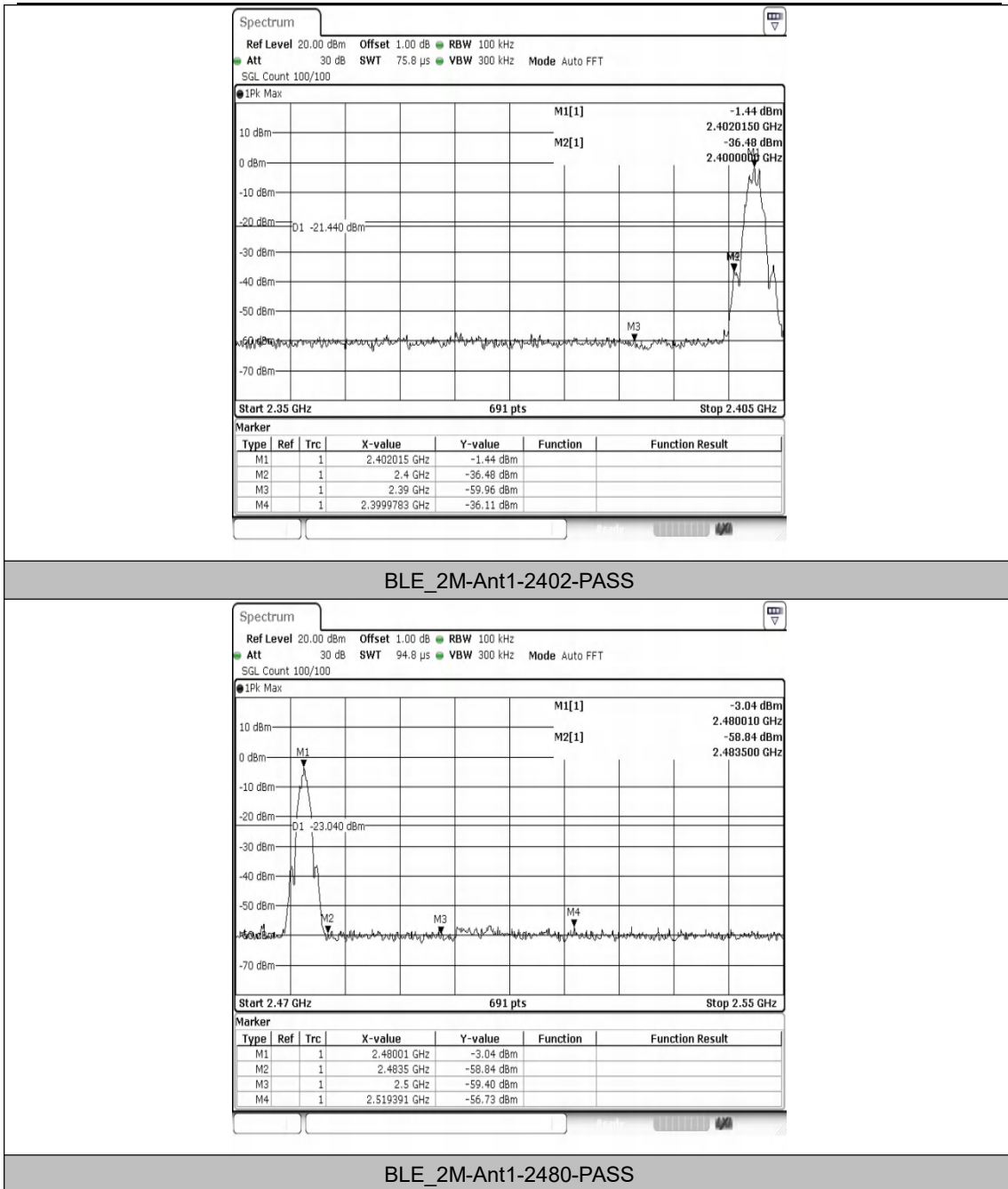
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.72	-56.26	≤-21.72	PASS
BLE_1M	Ant1	High	2480	-3.56	-55.06	≤-23.56	PASS
BLE_2M	Ant1	Low	2402	-1.44	-36.11	≤-21.44	PASS
BLE_2M	Ant1	High	2480	-3.04	-56.73	≤-23.04	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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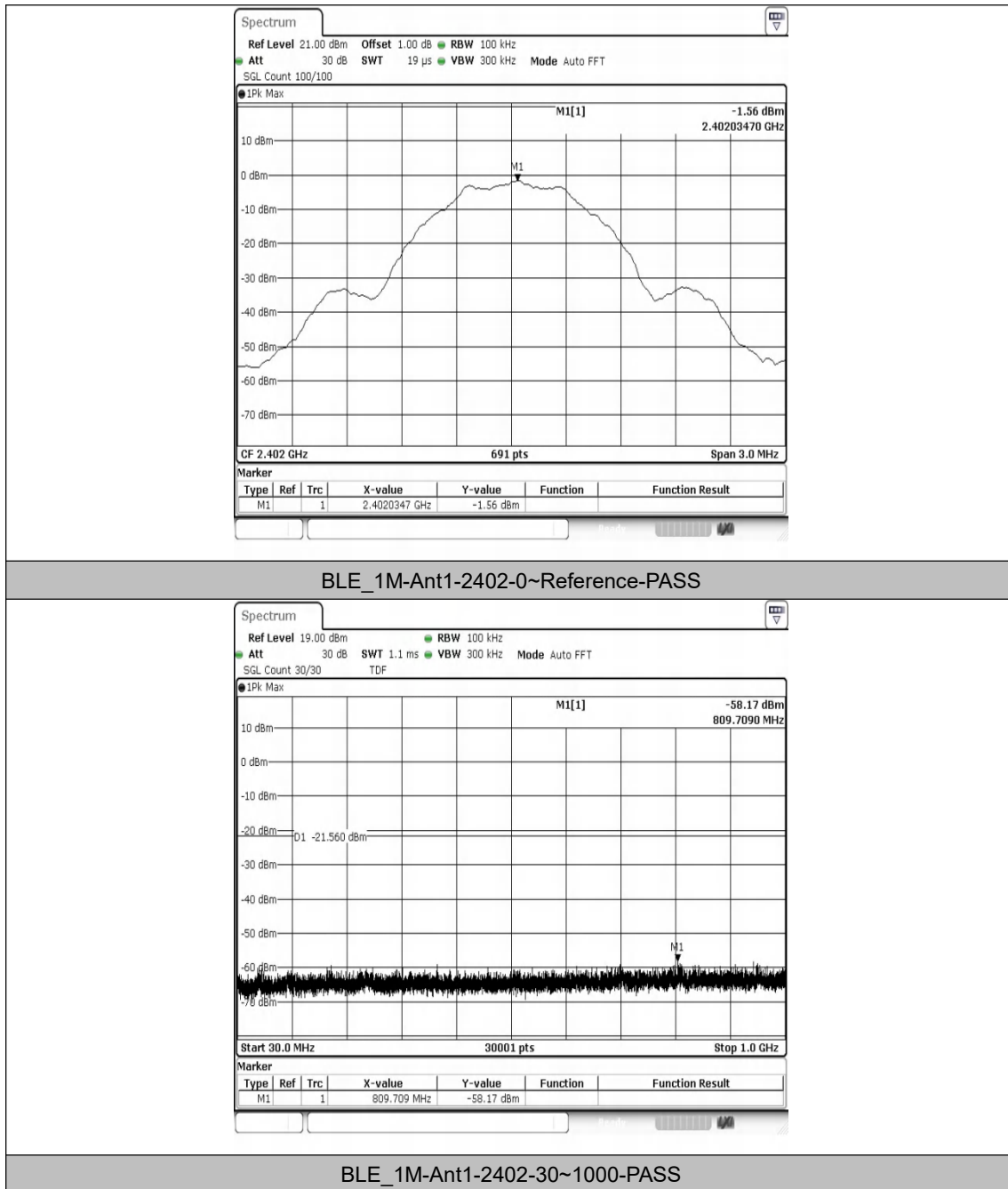
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-1.56	-1.56	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.56	-58.17	≤-21.56	PASS
BLE_1M	Ant1	2402	1000~26500	-1.56	-43.23	≤-21.56	PASS
BLE_1M	Ant1	2440	0~Reference	-2.77	-2.77	---	PASS
BLE_1M	Ant1	2440	30~1000	-2.77	-57.46	≤-22.77	PASS
BLE_1M	Ant1	2440	1000~26500	-2.77	-43.08	≤-22.77	PASS
BLE_1M	Ant1	2480	0~Reference	-3.12	-3.12	---	PASS
BLE_1M	Ant1	2480	30~1000	-3.12	-57.38	≤-23.12	PASS
BLE_1M	Ant1	2480	1000~26500	-3.12	-42.11	≤-23.12	PASS
BLE_2M	Ant1	2402	0~Reference	-3.48	-3.48	---	PASS
BLE_2M	Ant1	2402	30~1000	-3.48	-56.65	≤-23.48	PASS
BLE_2M	Ant1	2402	1000~26500	-3.48	-44.54	≤-23.48	PASS
BLE_2M	Ant1	2440	0~Reference	-4.60	-4.60	---	PASS
BLE_2M	Ant1	2440	30~1000	-4.60	-58.35	≤-24.6	PASS
BLE_2M	Ant1	2440	1000~26500	-4.60	-43.04	≤-24.6	PASS
BLE_2M	Ant1	2480	0~Reference	-5.55	-5.55	---	PASS
BLE_2M	Ant1	2480	30~1000	-5.55	-58.24	≤-25.55	PASS
BLE_2M	Ant1	2480	1000~26500	-5.55	-43	≤-25.55	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.

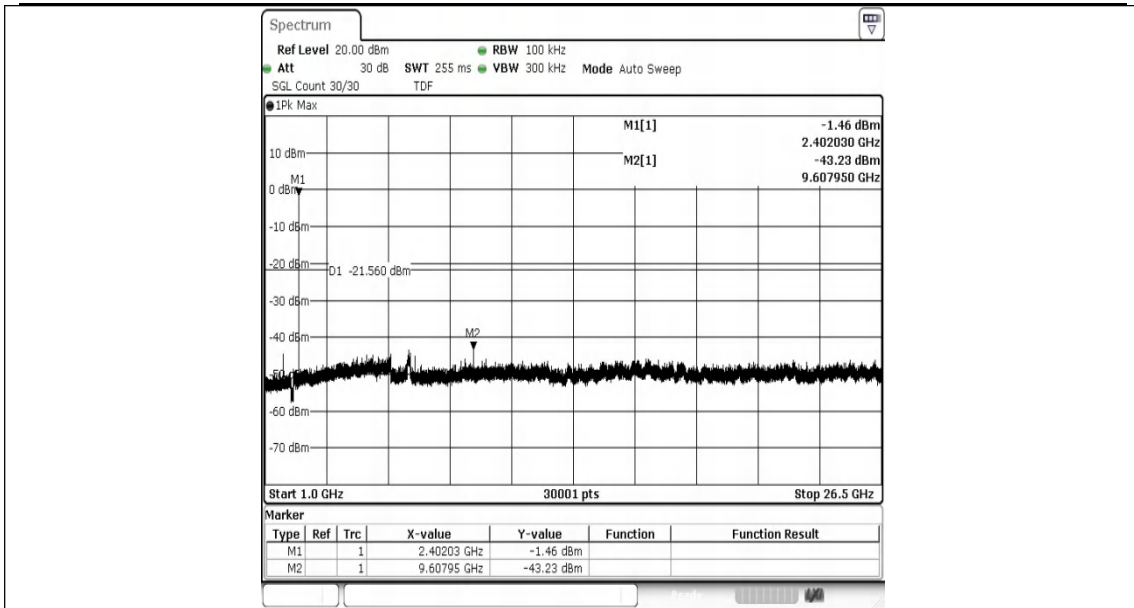
Test Graphs



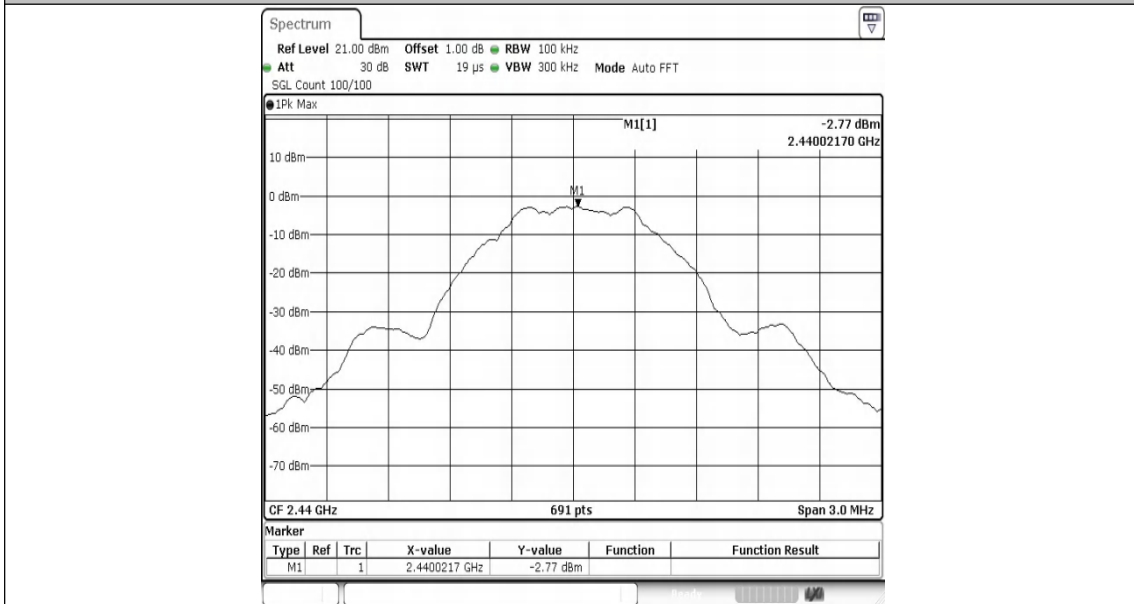
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BLE_1M-Ant1-2402-1000~26500-PASS

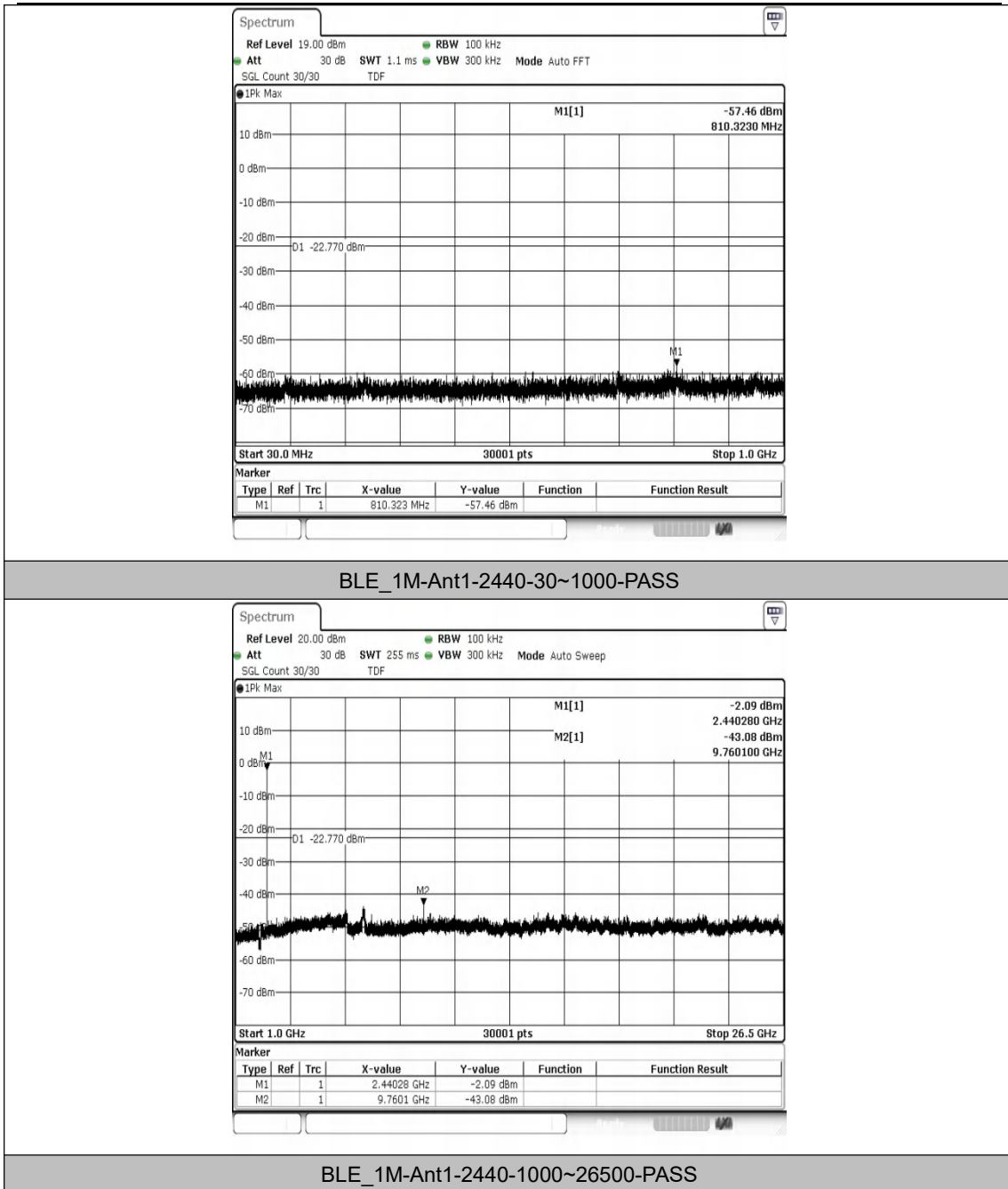


BLE_1M-Ant1-2440-0~Reference-PASS

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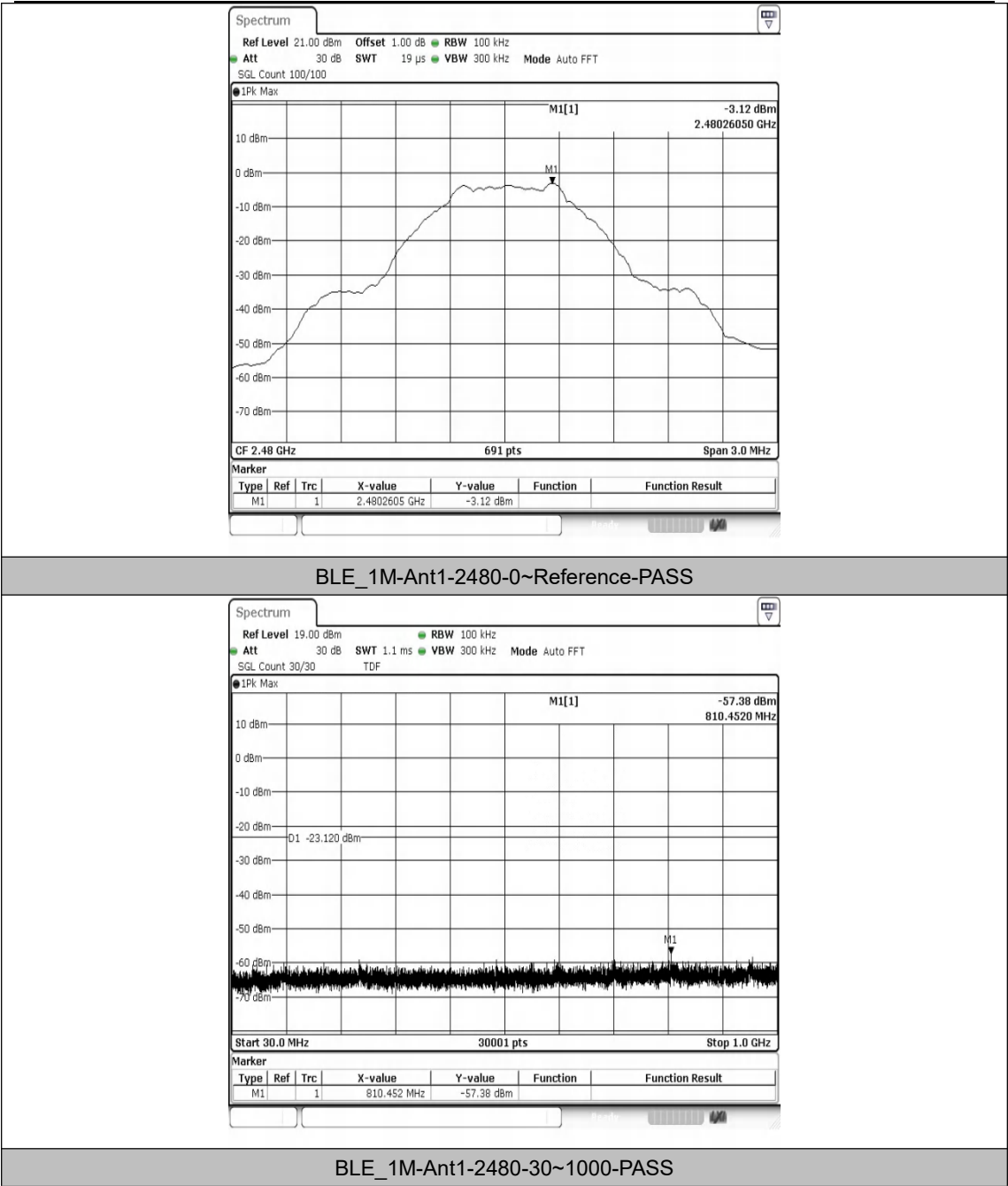
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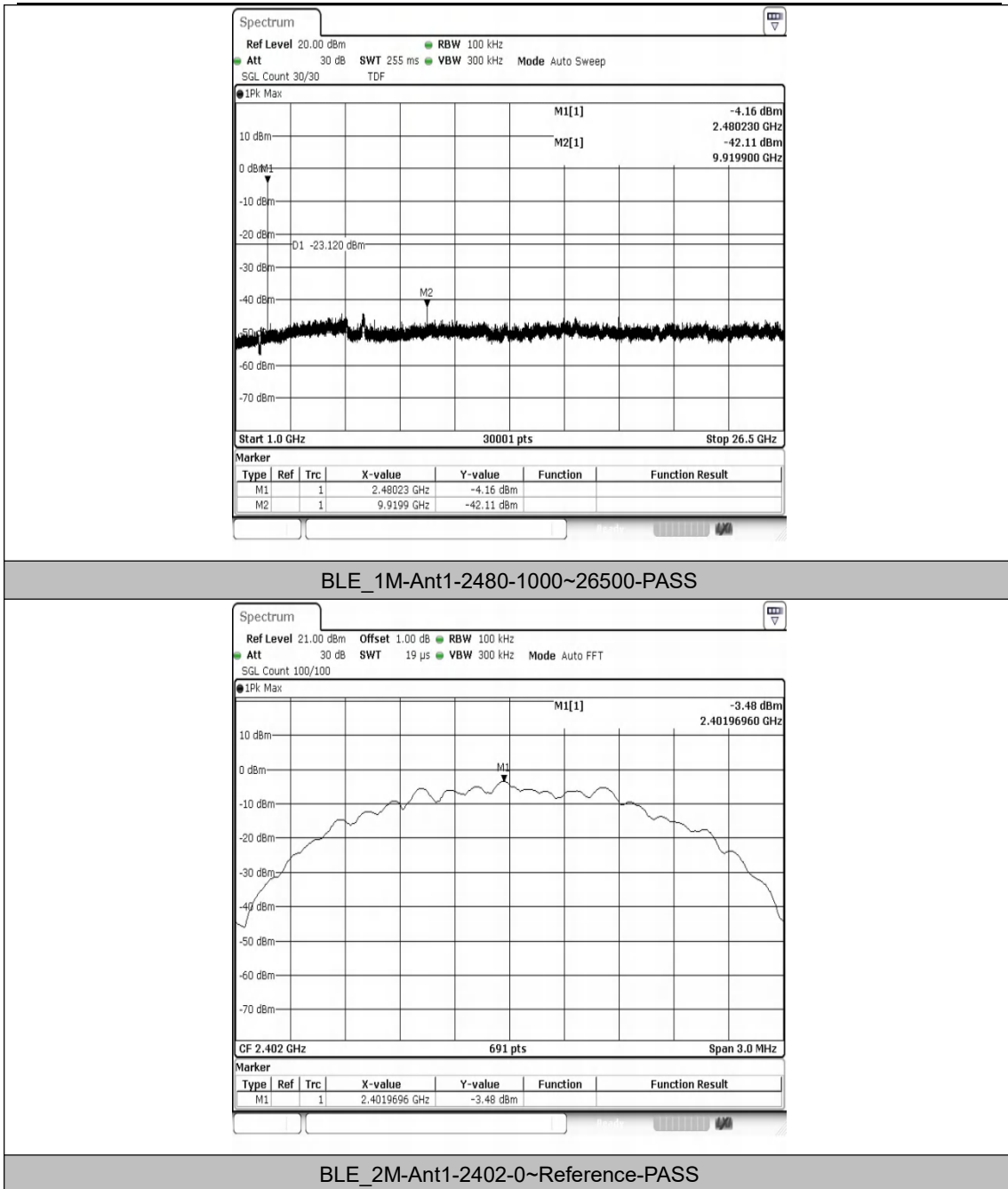


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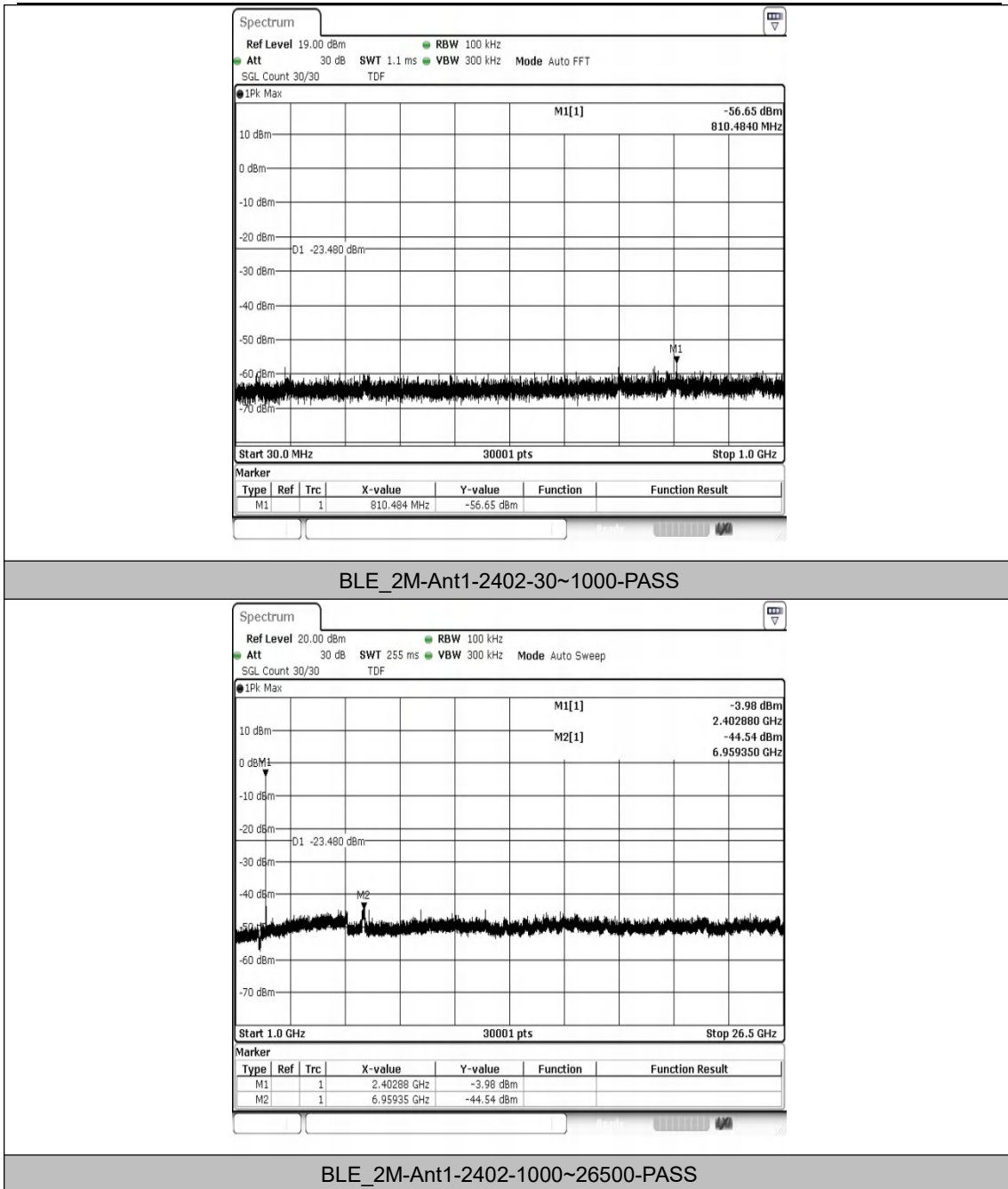




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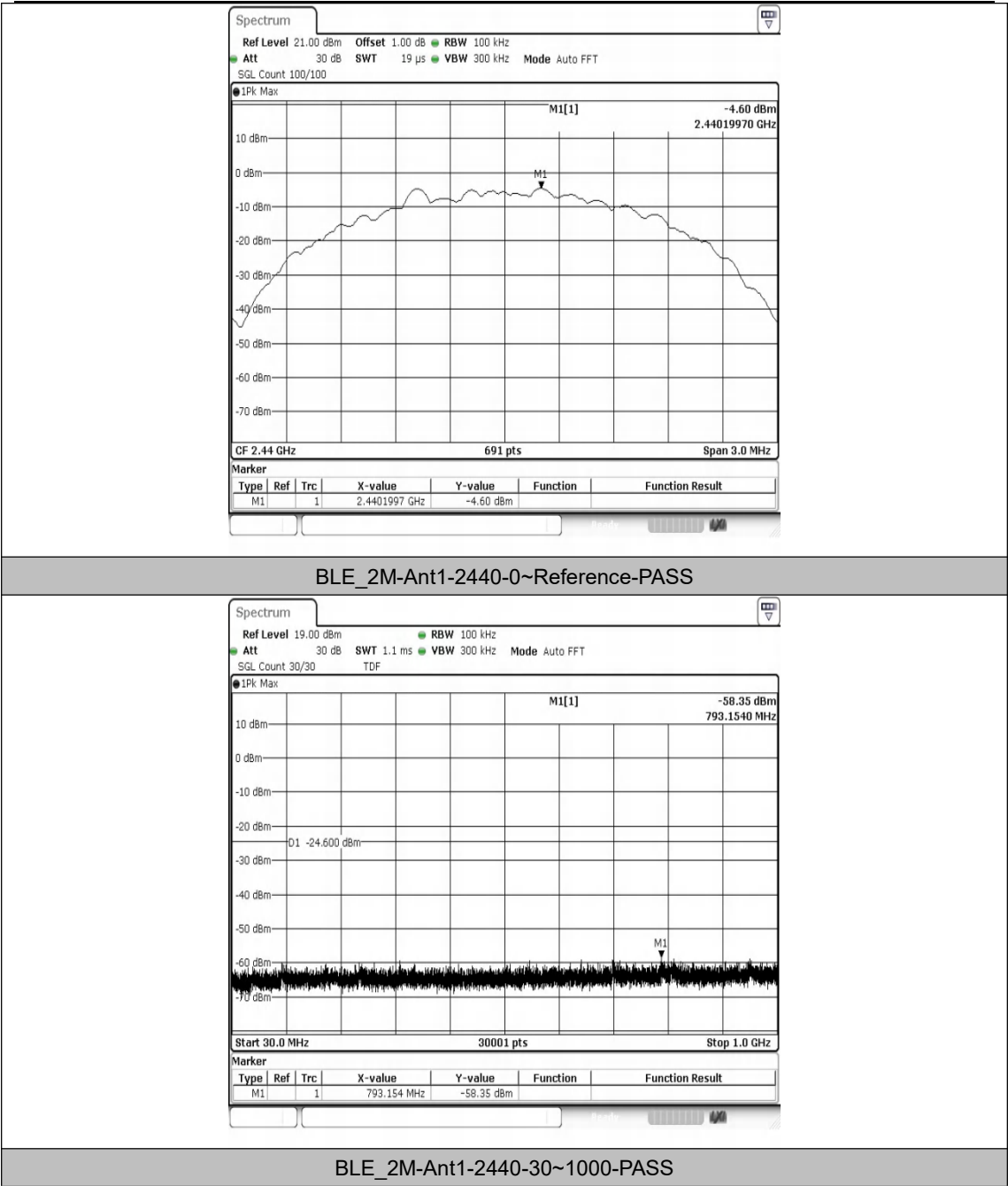
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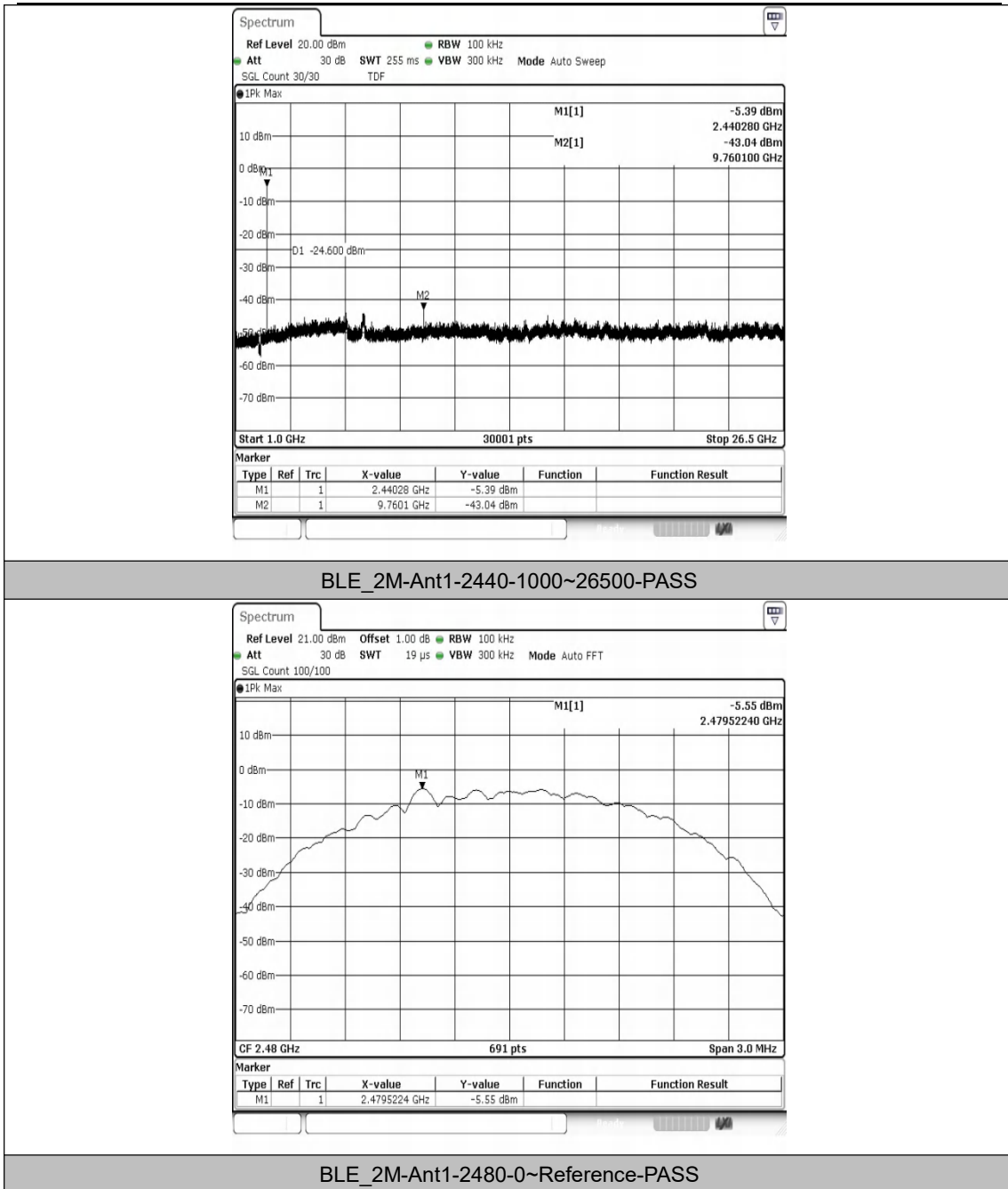
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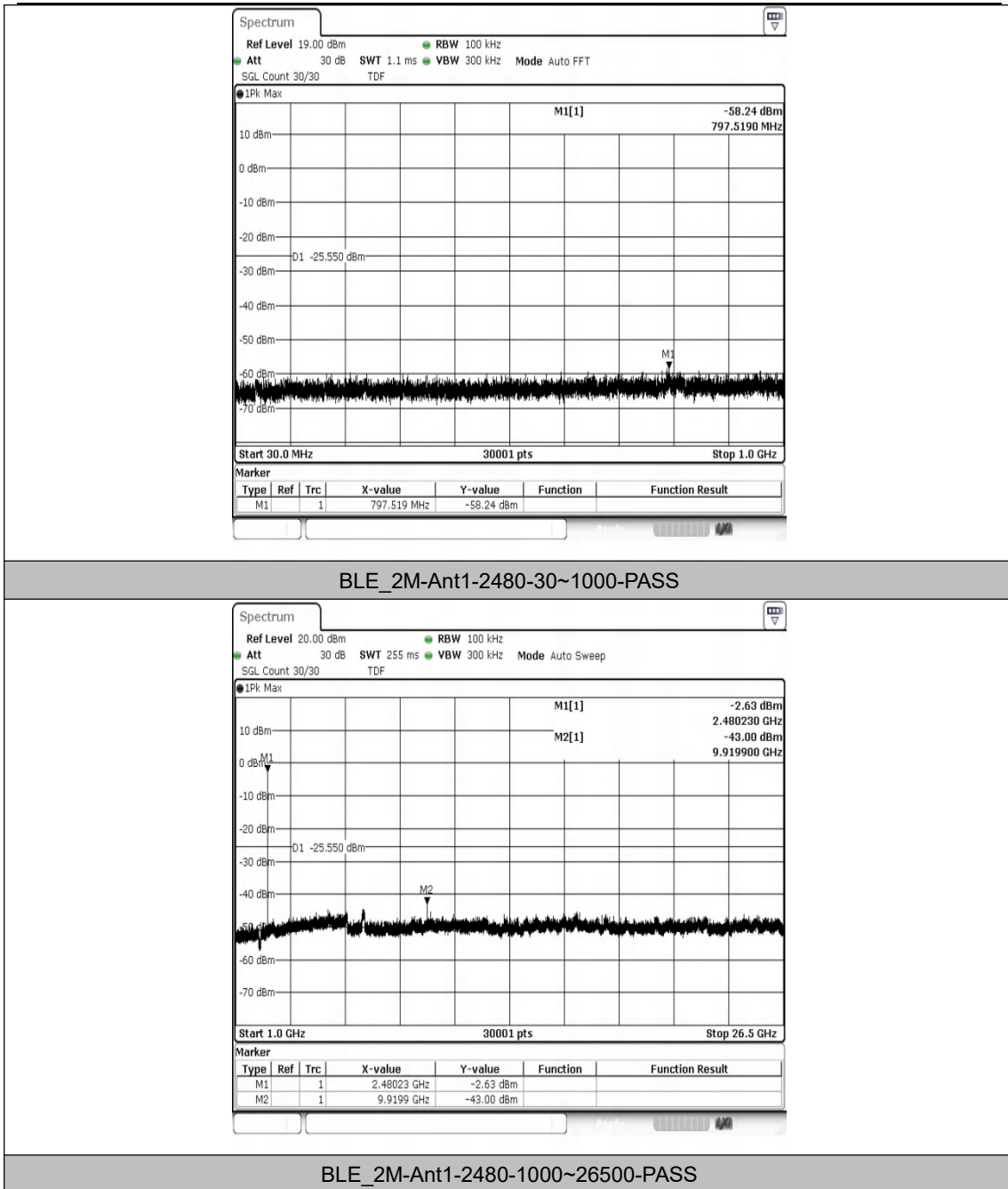
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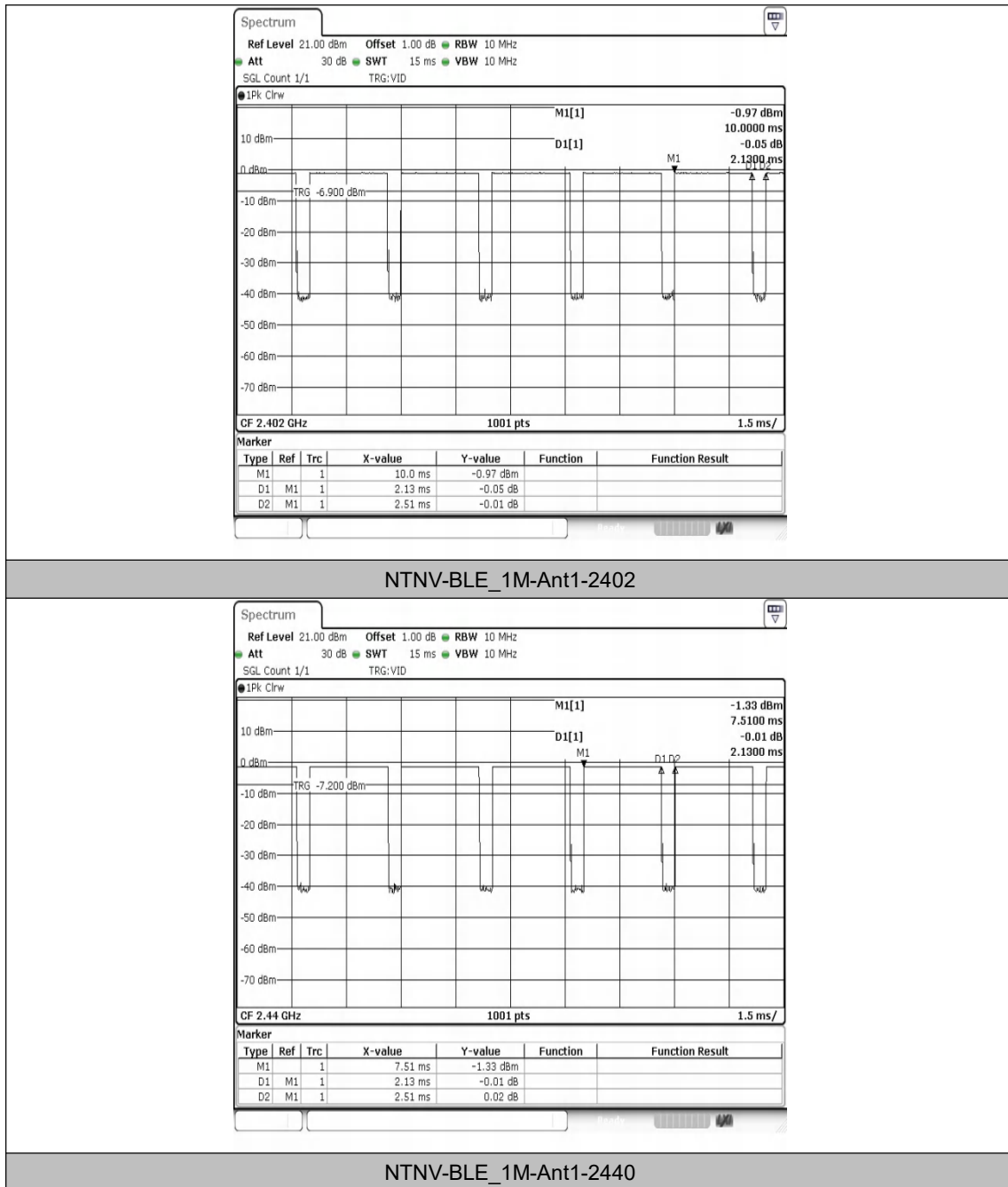
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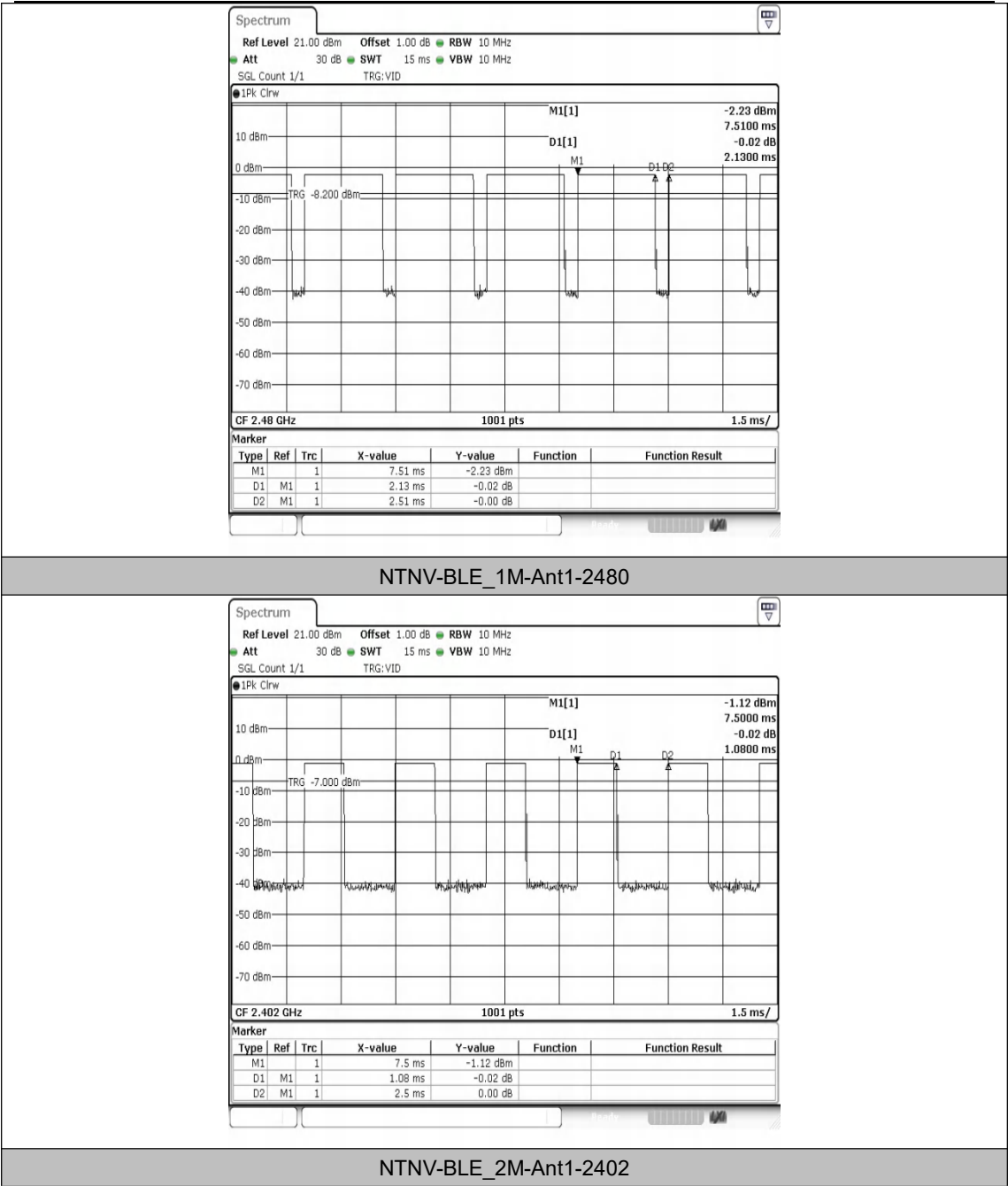
Appendix G: Duty Cycle

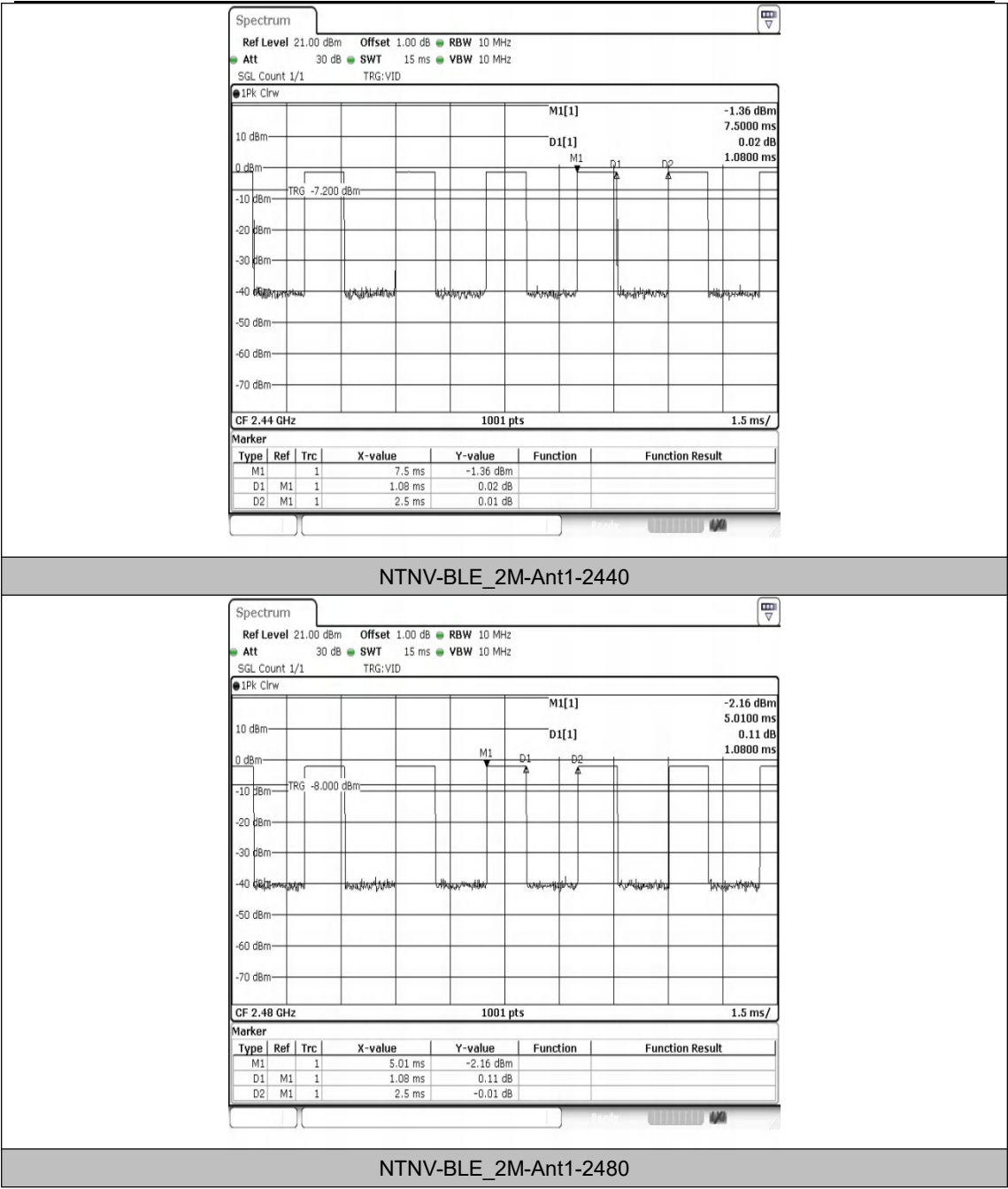
Test Result

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







---End---