

Appendix Test Data

Report No.:	1812C50332112501	Test Sample No.:	1-2-2
Start Test Date:	2025-7-3	Finish Test Date:	2025--7-12
Test Engineer:	<i>dylan. Ma</i>	Auditor:	<i>Justin Feng</i>
Temperature:	23.8°C	Relative Humidity:	51%
Pressure:	101kPa		

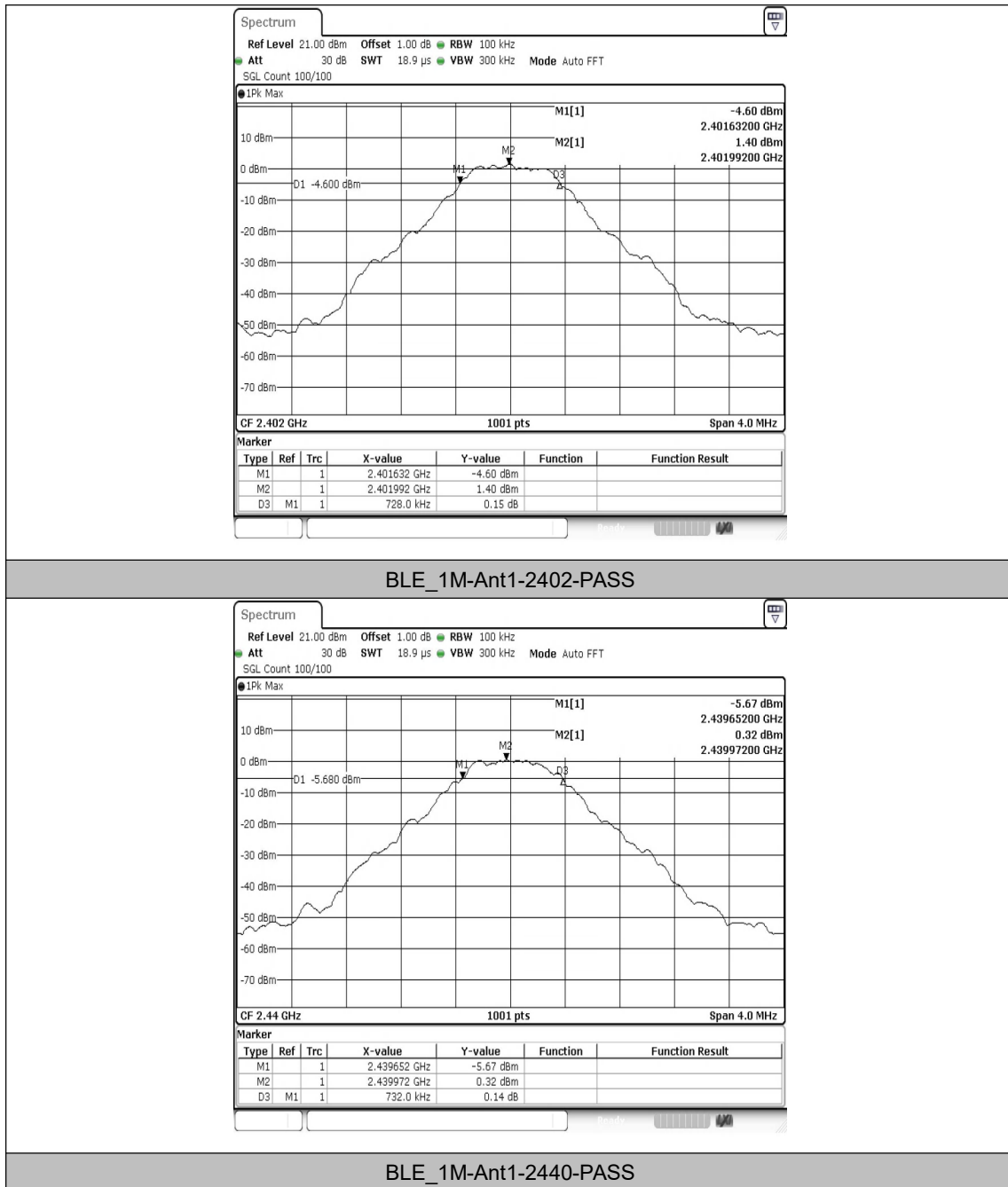
Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.73	2401.63	2402.36	0.5	PASS
BLE_1M	Ant1	2440	0.73	2439.65	2440.38	0.5	PASS
BLE_1M	Ant1	2480	0.75	2479.63	2480.38	0.5	PASS
BLE_2M	Ant1	2402	1.29	2401.32	2402.61	0.5	PASS
BLE_2M	Ant1	2440	1.12	2439.44	2440.56	0.5	PASS
BLE_2M	Ant1	2480	1.08	2479.46	2480.54	0.5	PASS



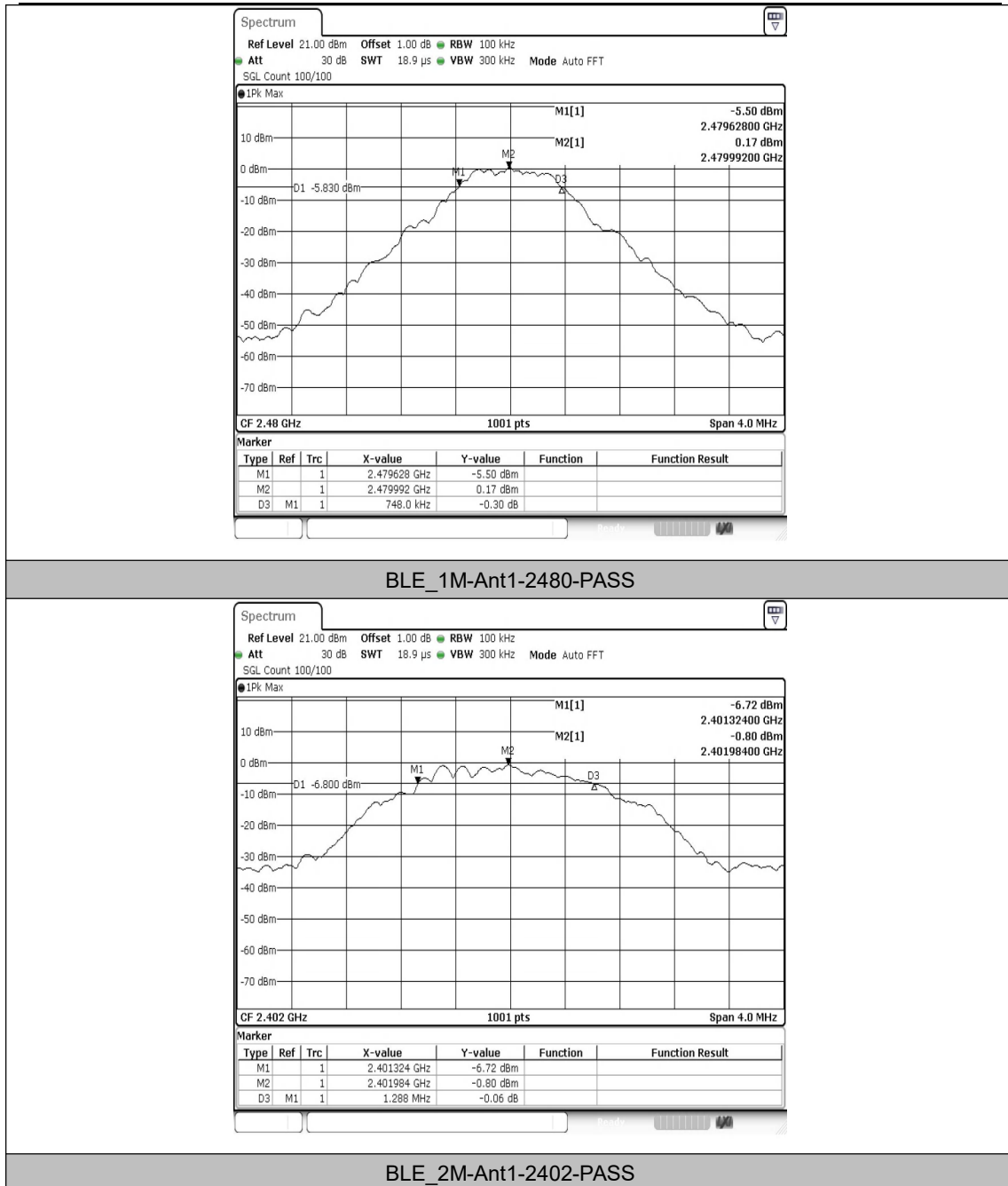
Test Graphs

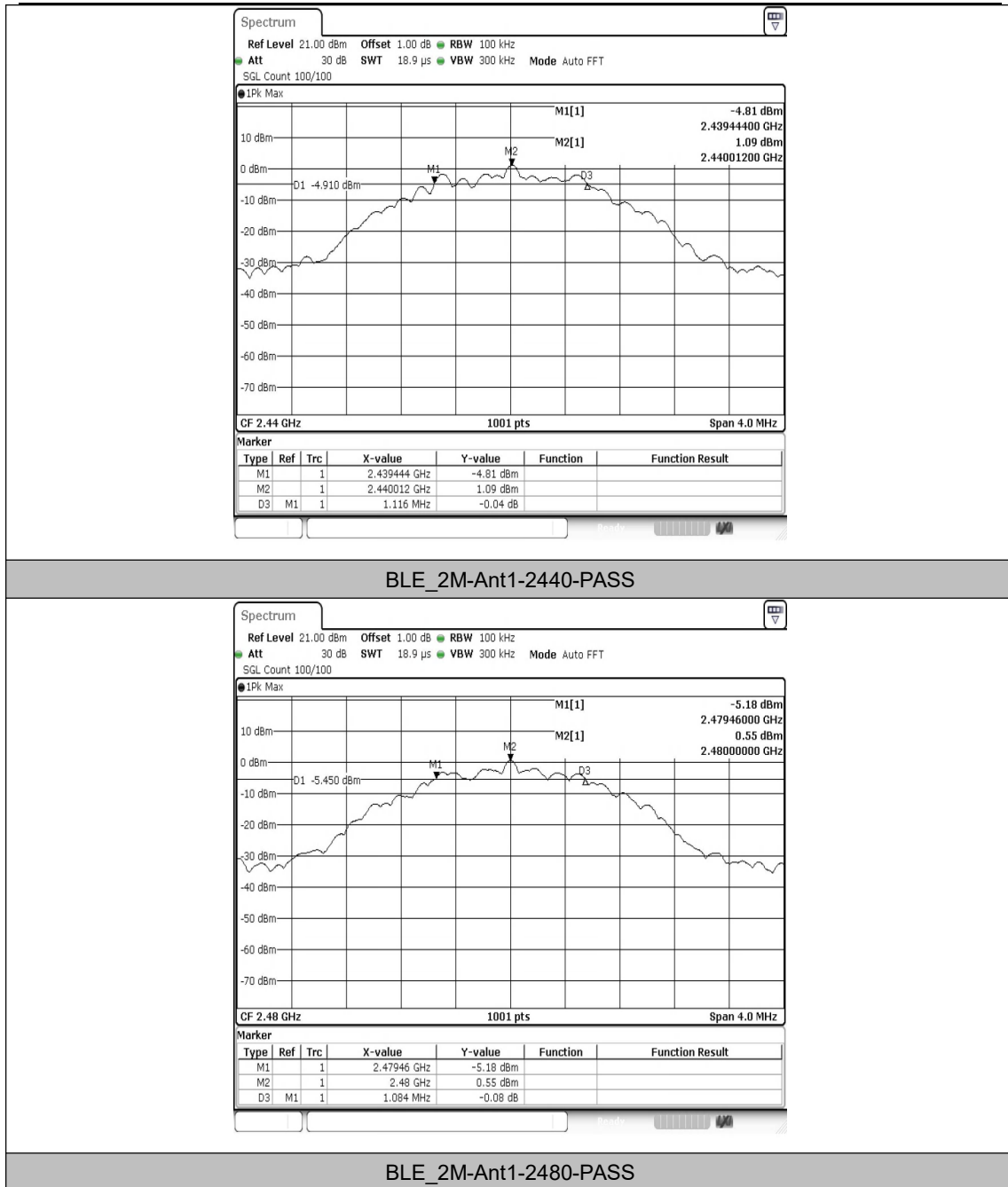


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Appendix B: 99% Occupied Bandwidth

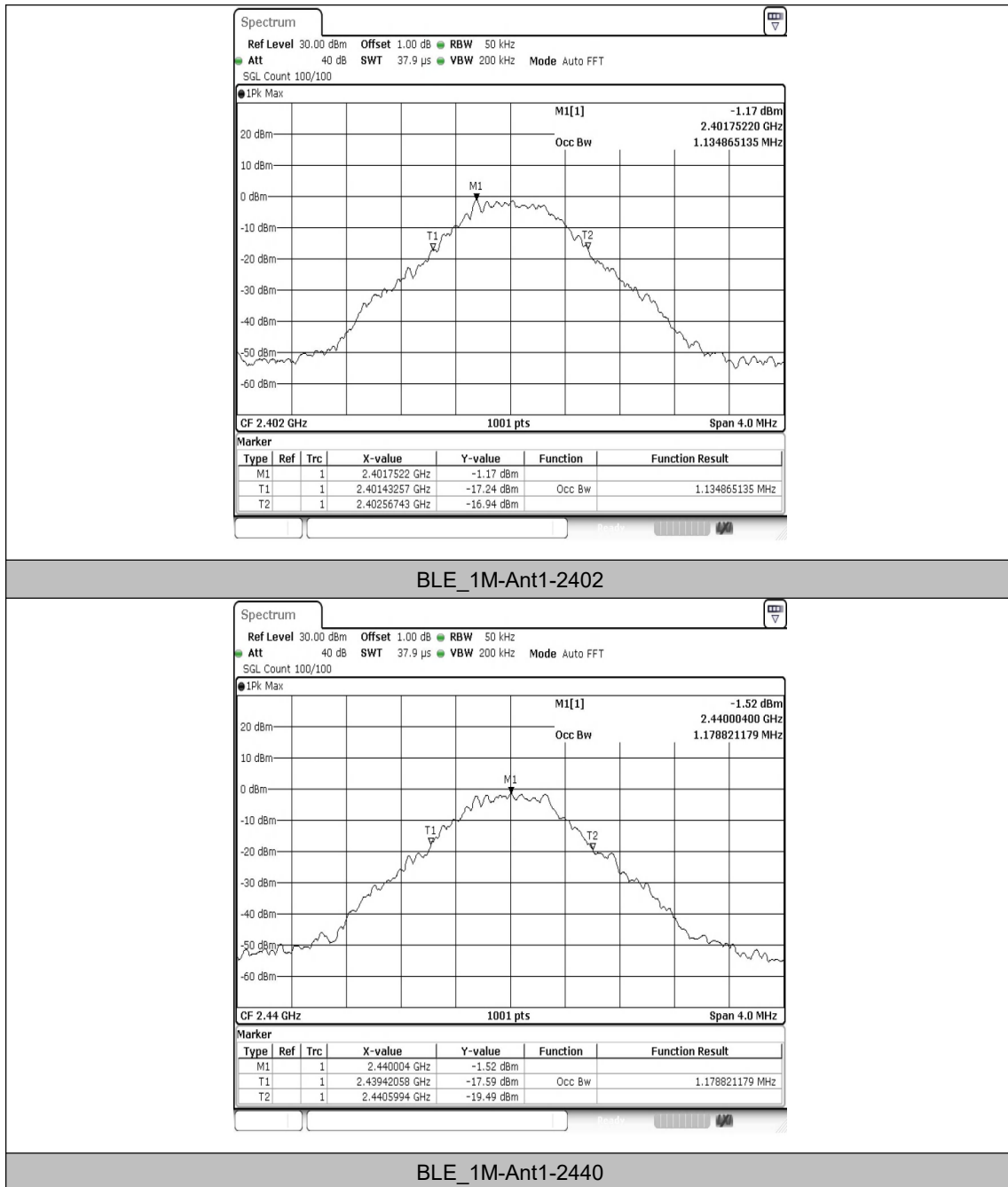
Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.1349	2401.4326	2402.5674	---	---
BLE_1M	Ant1	2440	1.1788	2439.4206	2440.5994	---	---
BLE_1M	Ant1	2480	1.2268	2479.3926	2480.6194	---	---
BLE_2M	Ant1	2402	2.0779	2400.9810	2403.0589	---	---
BLE_2M	Ant1	2440	2.0619	2438.9850	2441.0470	---	---
BLE_2M	Ant1	2480	2.1179	2478.9411	2481.0589	---	---

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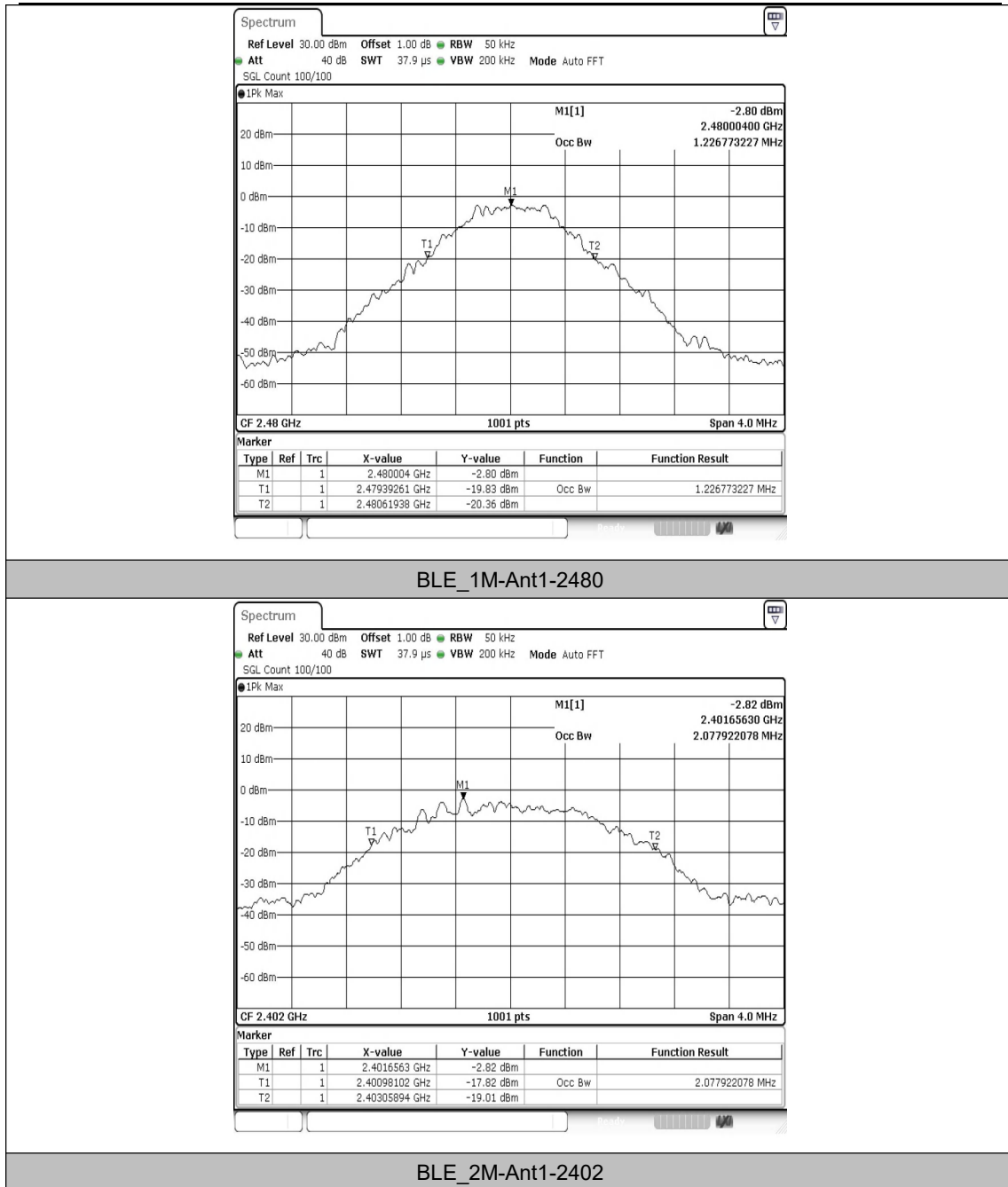
Test Graphs

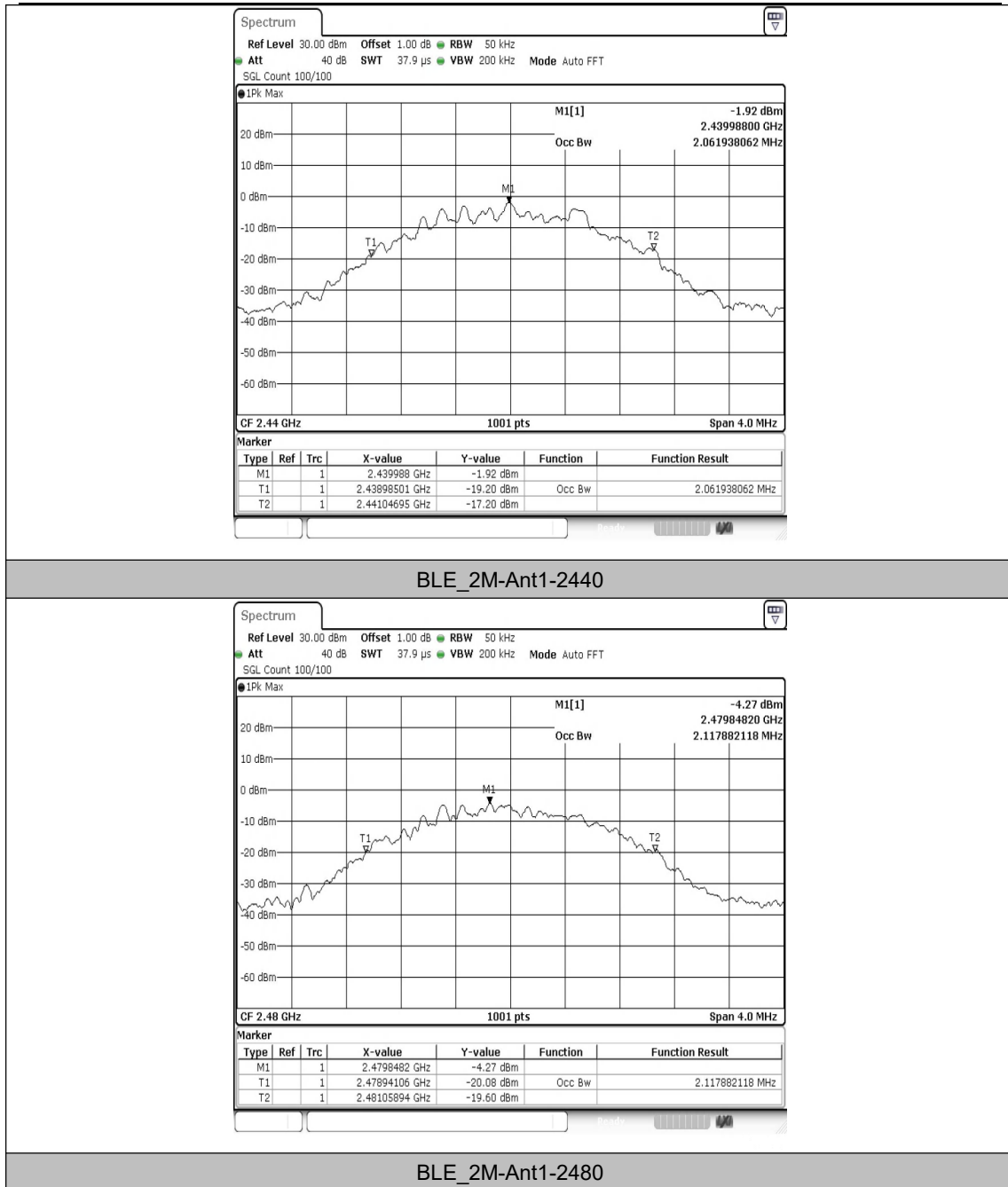


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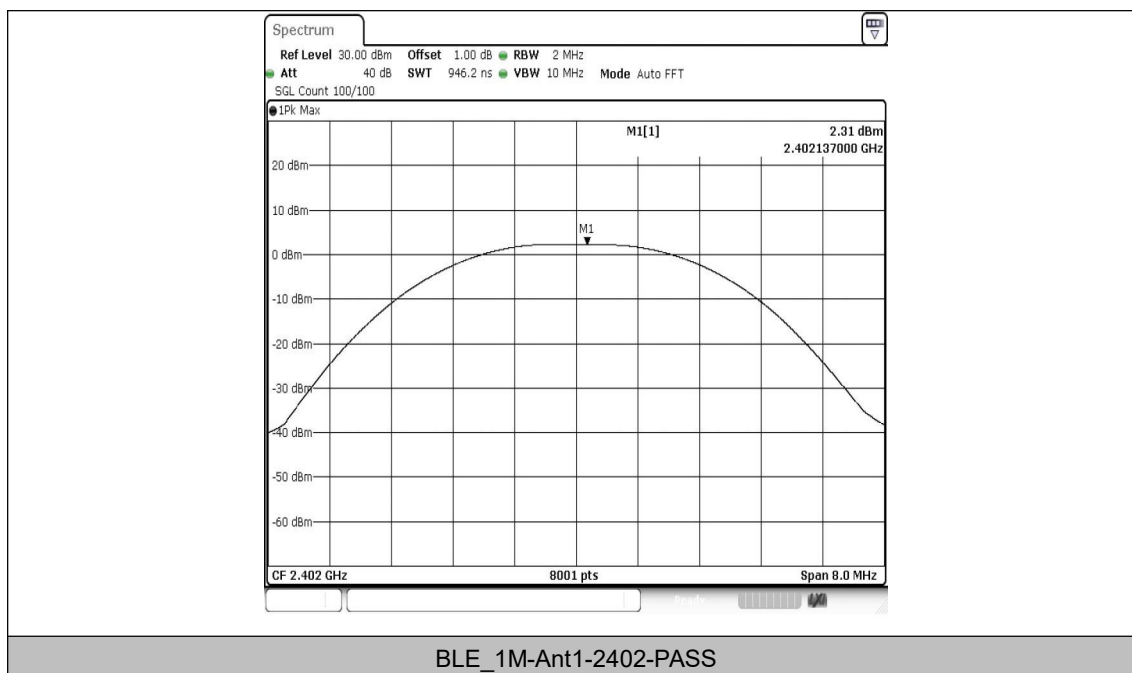


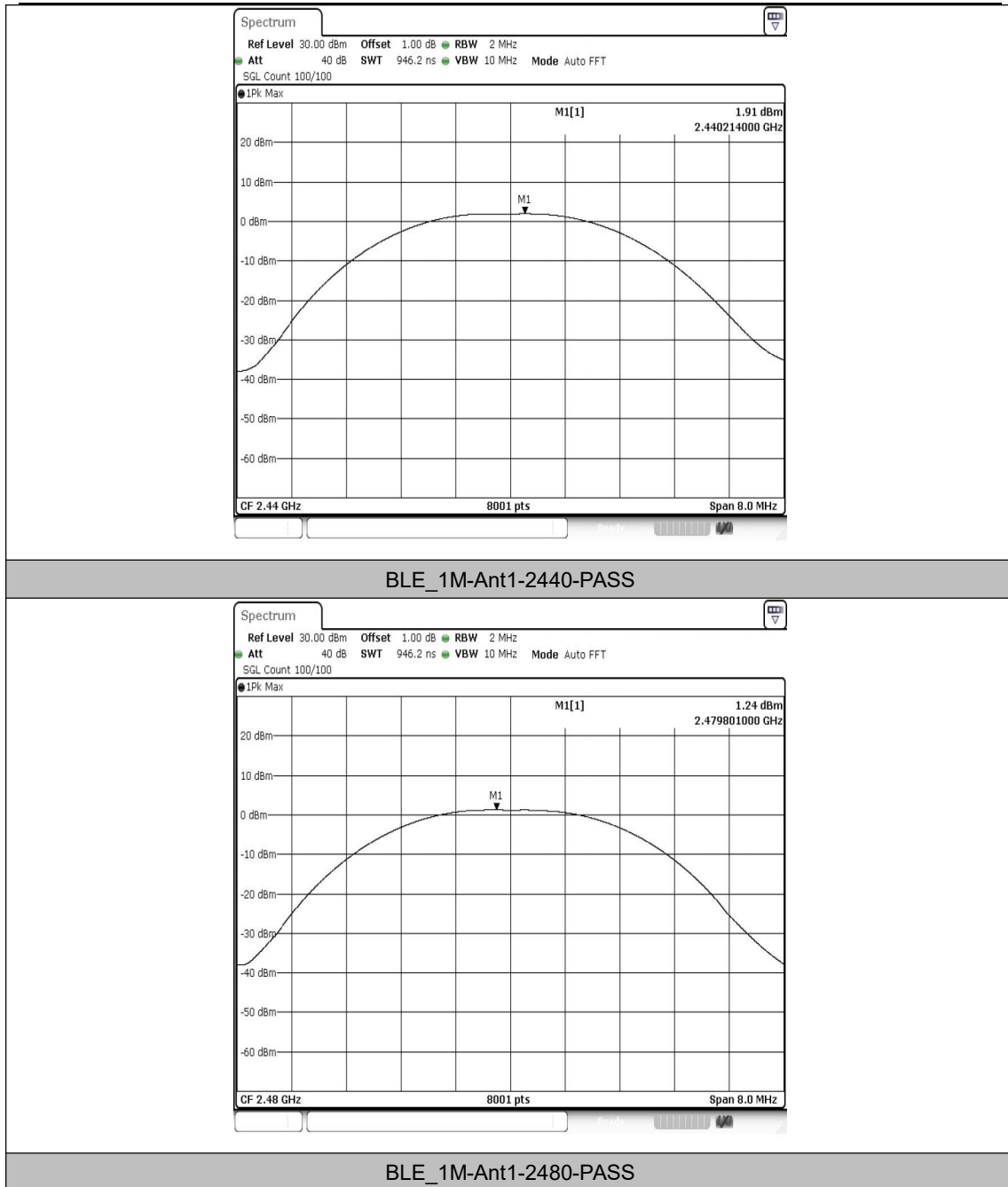
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.31	≤30	PASS
BLE_1M	Ant1	2440	1.91	≤30	PASS
BLE_1M	Ant1	2480	1.24	≤30	PASS
BLE_2M	Ant1	2402	2.36	≤30	PASS
BLE_2M	Ant1	2440	1.96	≤30	PASS
BLE_2M	Ant1	2480	1.30	≤30	PASS

Test Graphs Peak

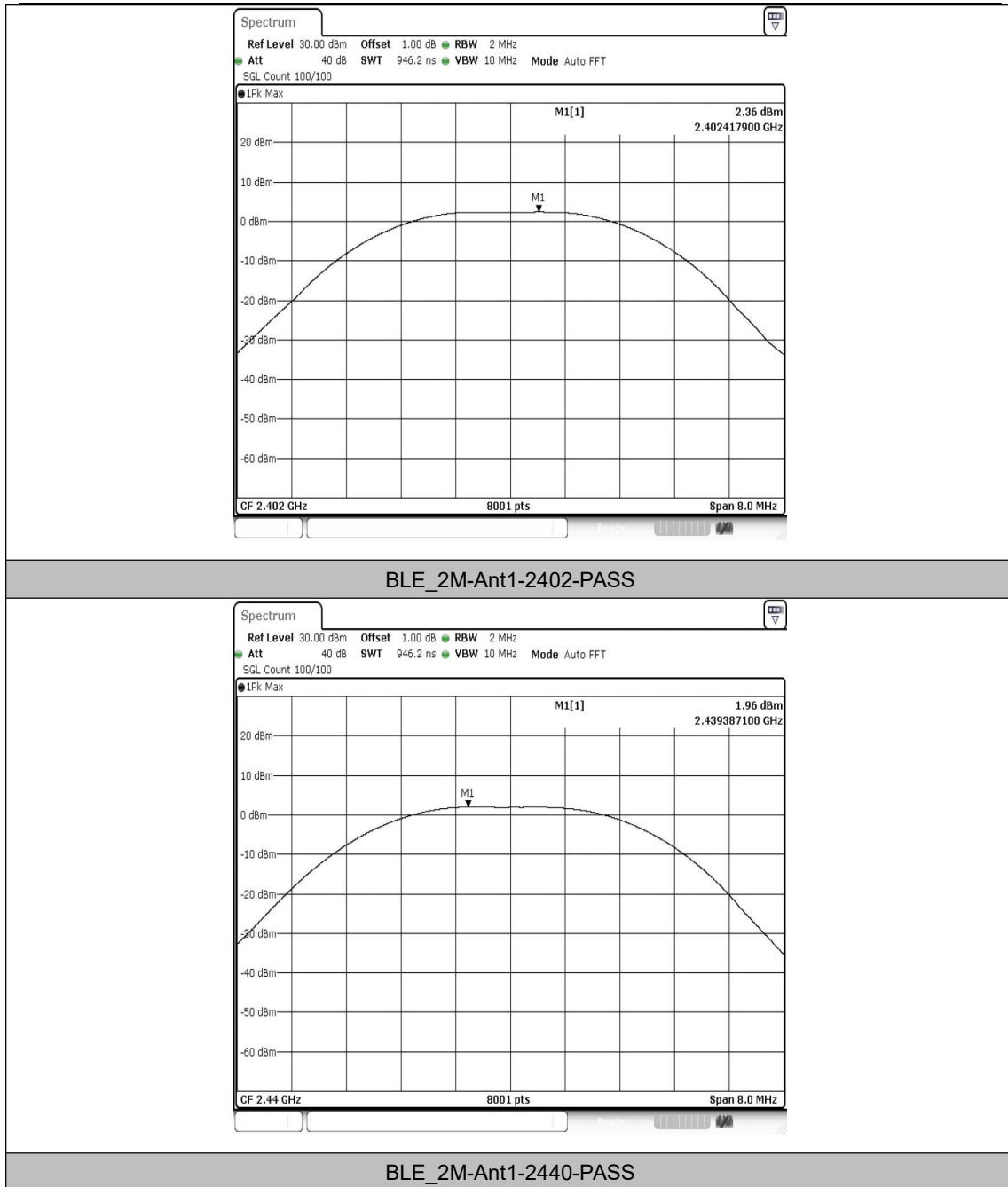




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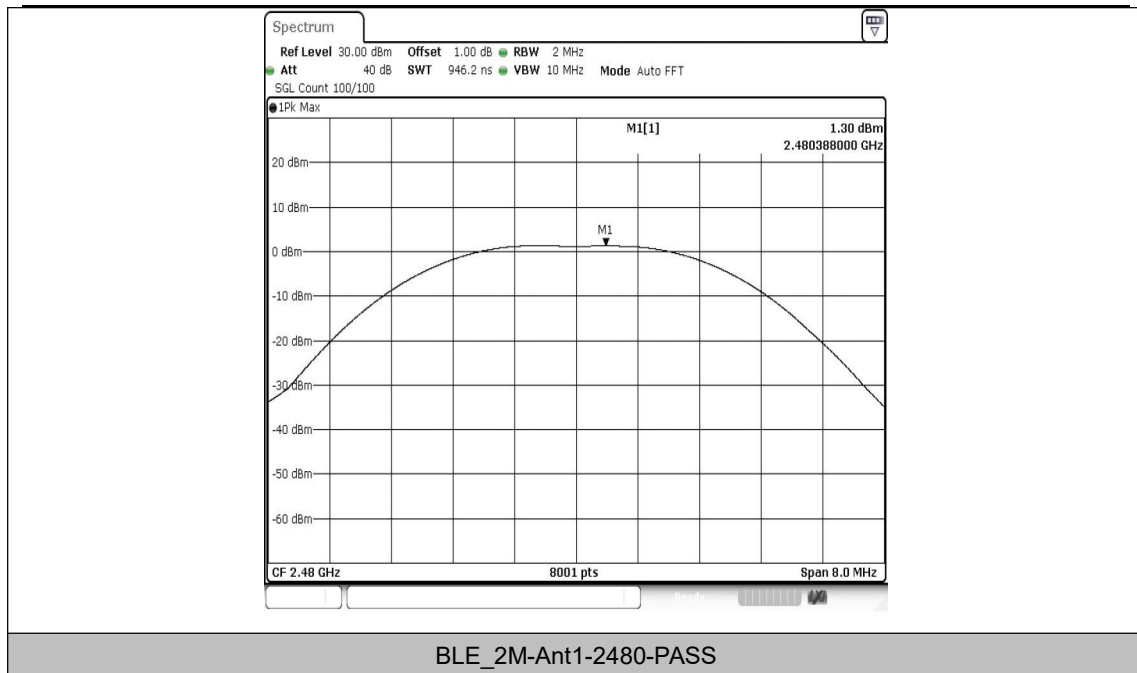
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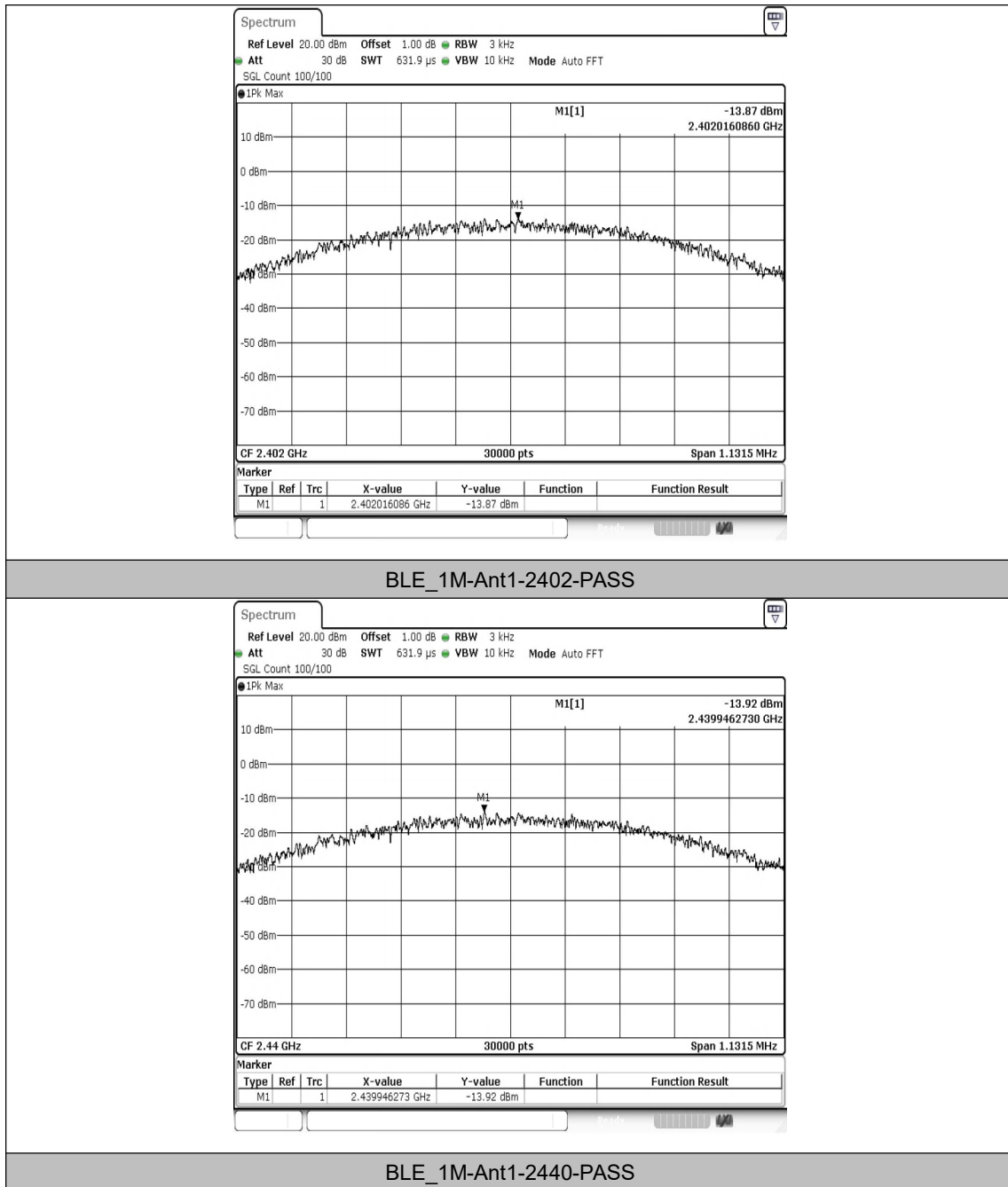
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.87	≤8.00	PASS
BLE_1M	Ant1	2440	-13.92	≤8.00	PASS
BLE_1M	Ant1	2480	-14.89	≤8.00	PASS
BLE_2M	Ant1	2402	-17.12	≤8.00	PASS
BLE_2M	Ant1	2440	-17.09	≤8.00	PASS
BLE_2M	Ant1	2480	-17.40	≤8.00	PASS

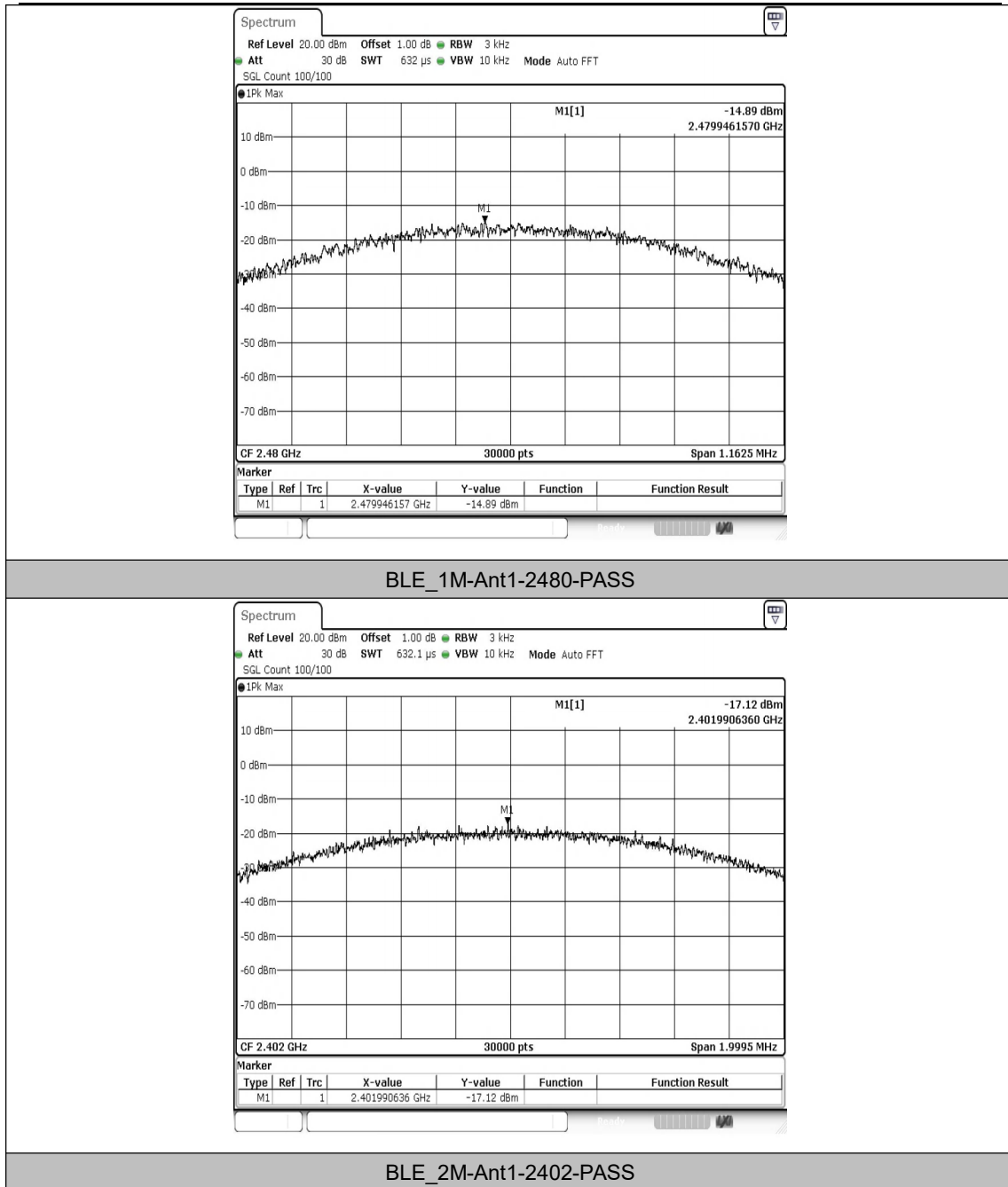
Test Graphs



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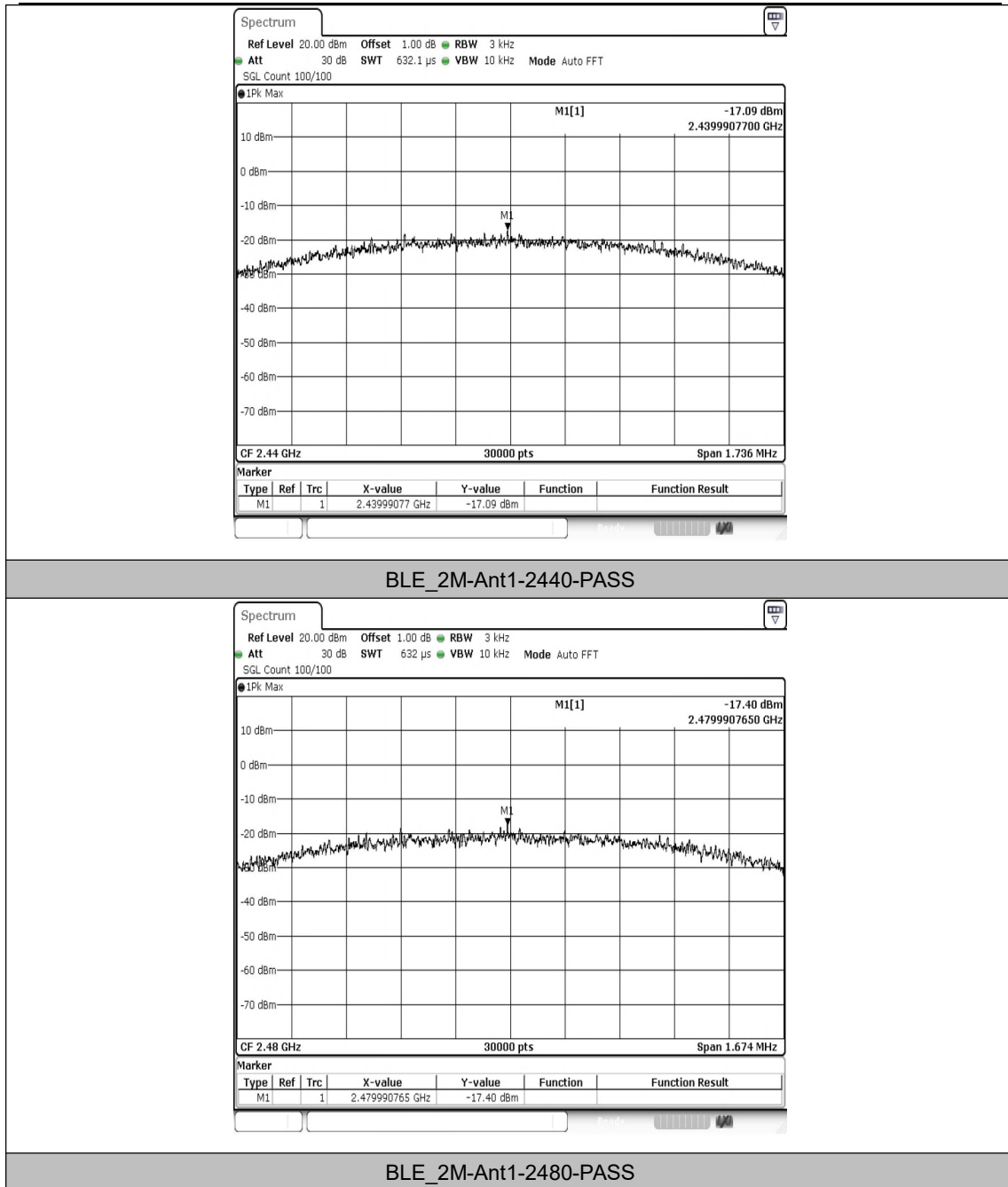
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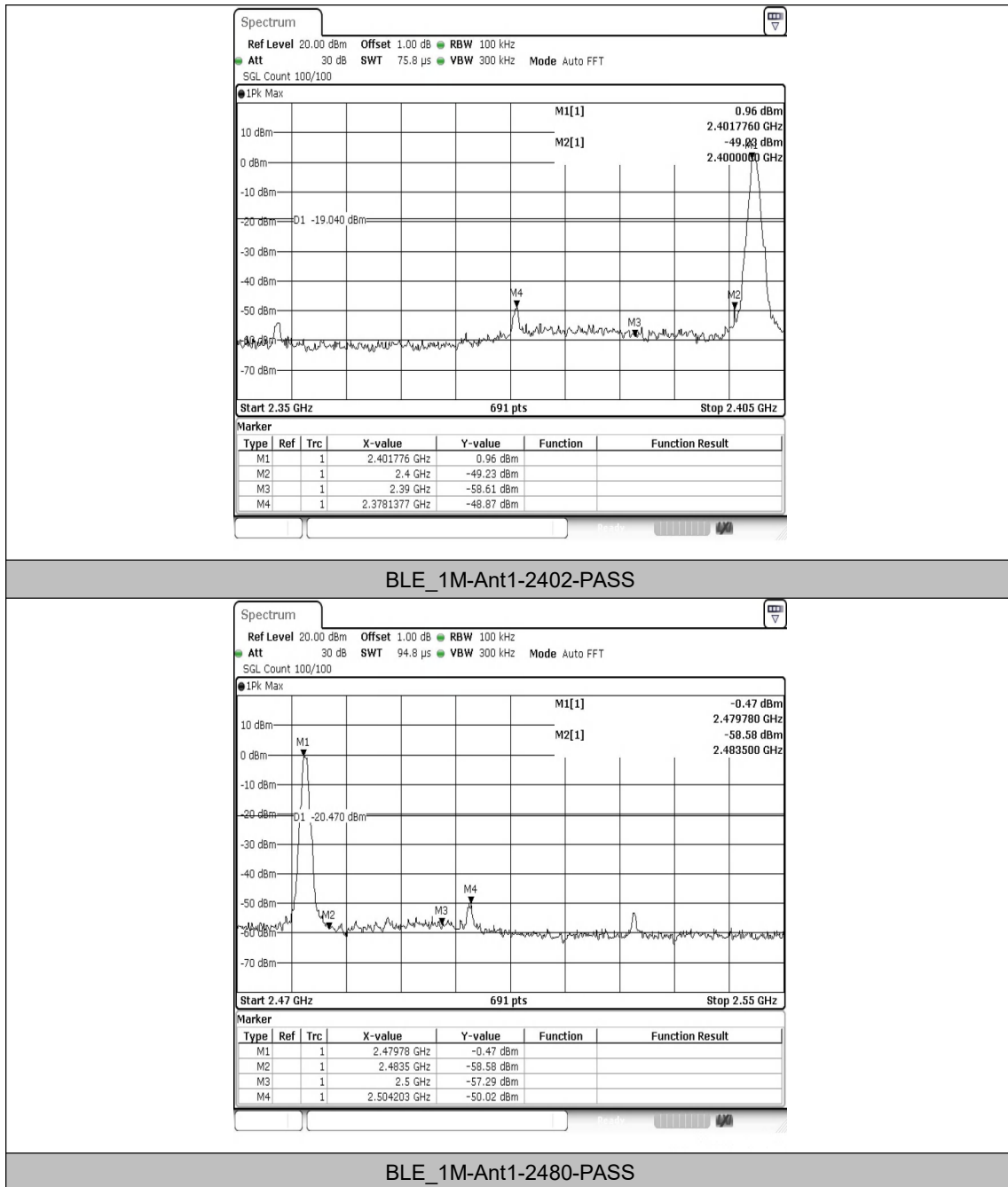
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.96	-48.87	≤-19.04	PASS
BLE_1M	Ant1	High	2480	-0.47	-50.02	≤-20.47	PASS
BLE_2M	Ant1	Low	2402	-0.81	-31.82	≤-20.81	PASS
BLE_2M	Ant1	High	2480	0.35	-51.82	≤-19.65	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.

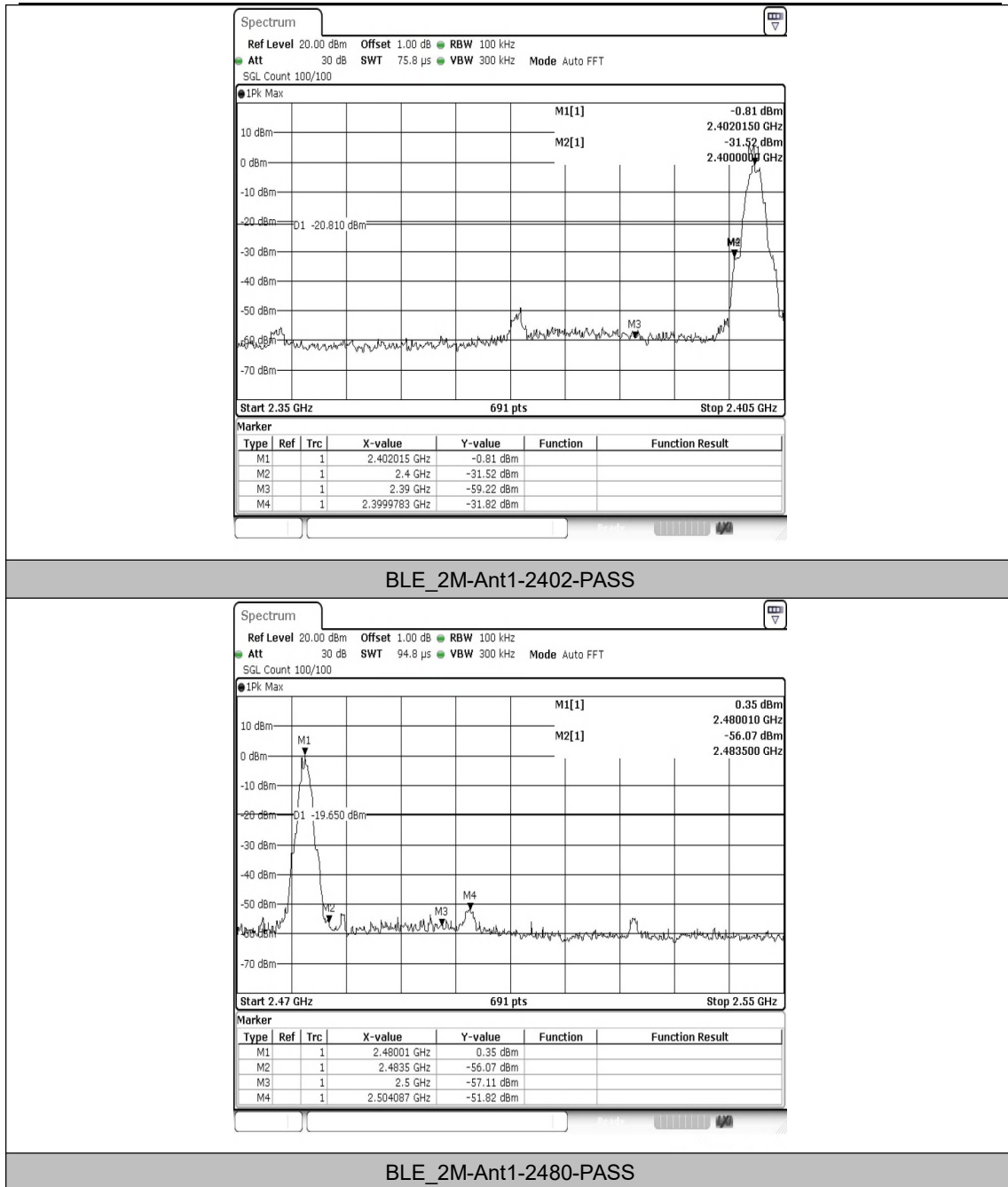
Test Graphs



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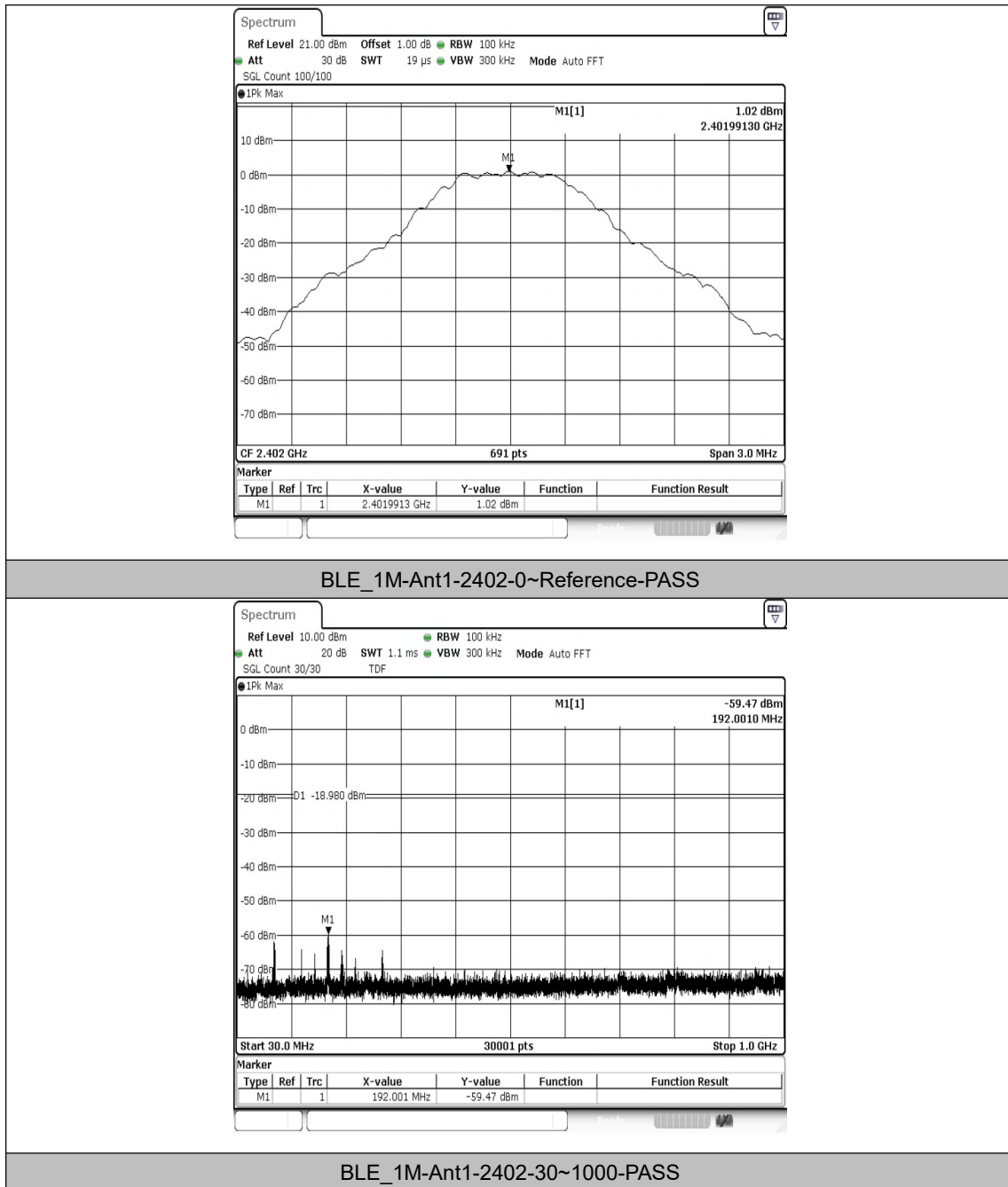
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	1.02	1.02	---	PASS
BLE_1M	Ant1	2402	30~1000	1.02	-59.47	≤-18.98	PASS
BLE_1M	Ant1	2402	1000~26500	1.02	-39.35	≤-18.98	PASS
BLE_1M	Ant1	2440	0~Reference	1.26	1.26	---	PASS
BLE_1M	Ant1	2440	30~1000	1.26	-64.11	≤-18.74	PASS
BLE_1M	Ant1	2440	1000~26500	1.26	-39.22	≤-18.74	PASS
BLE_1M	Ant1	2480	0~Reference	0.91	0.91	---	PASS
BLE_1M	Ant1	2480	30~1000	0.91	-64.64	≤-19.09	PASS
BLE_1M	Ant1	2480	1000~26500	0.91	-39.32	≤-19.09	PASS
BLE_2M	Ant1	2402	0~Reference	-1.35	-1.35	---	PASS
BLE_2M	Ant1	2402	30~1000	-1.35	-64.58	≤-21.35	PASS
BLE_2M	Ant1	2402	1000~26500	-1.35	-40.48	≤-21.35	PASS
BLE_2M	Ant1	2440	0~Reference	1.10	1.10	---	PASS
BLE_2M	Ant1	2440	30~1000	1.10	-62.17	≤-18.9	PASS
BLE_2M	Ant1	2440	1000~26500	1.10	-42.97	≤-18.9	PASS
BLE_2M	Ant1	2480	0~Reference	-0.58	-0.58	---	PASS
BLE_2M	Ant1	2480	30~1000	-0.58	-64.49	≤-20.58	PASS
BLE_2M	Ant1	2480	1000~26500	-0.58	-38.26	≤-20.58	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.

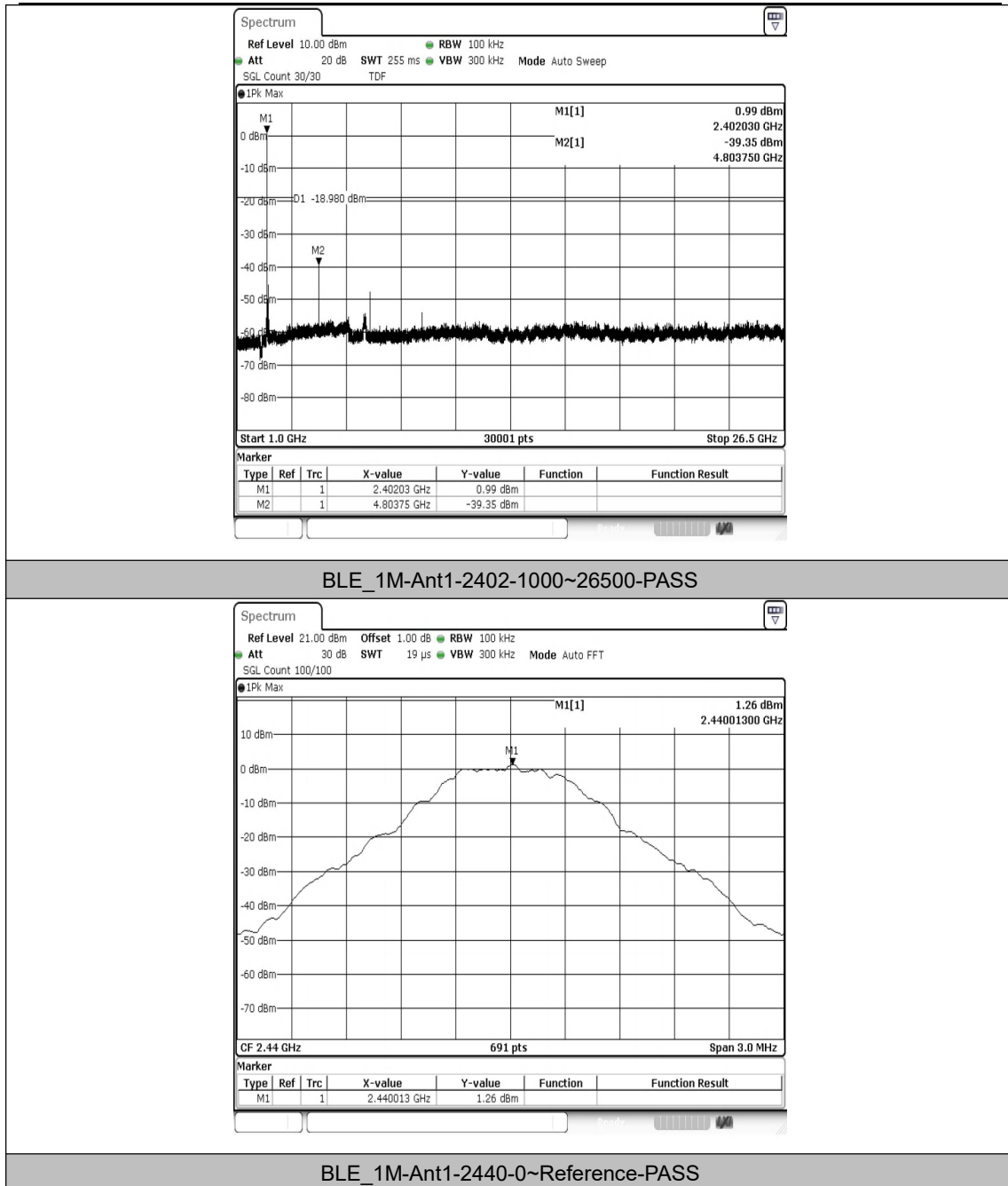
Test Graphs



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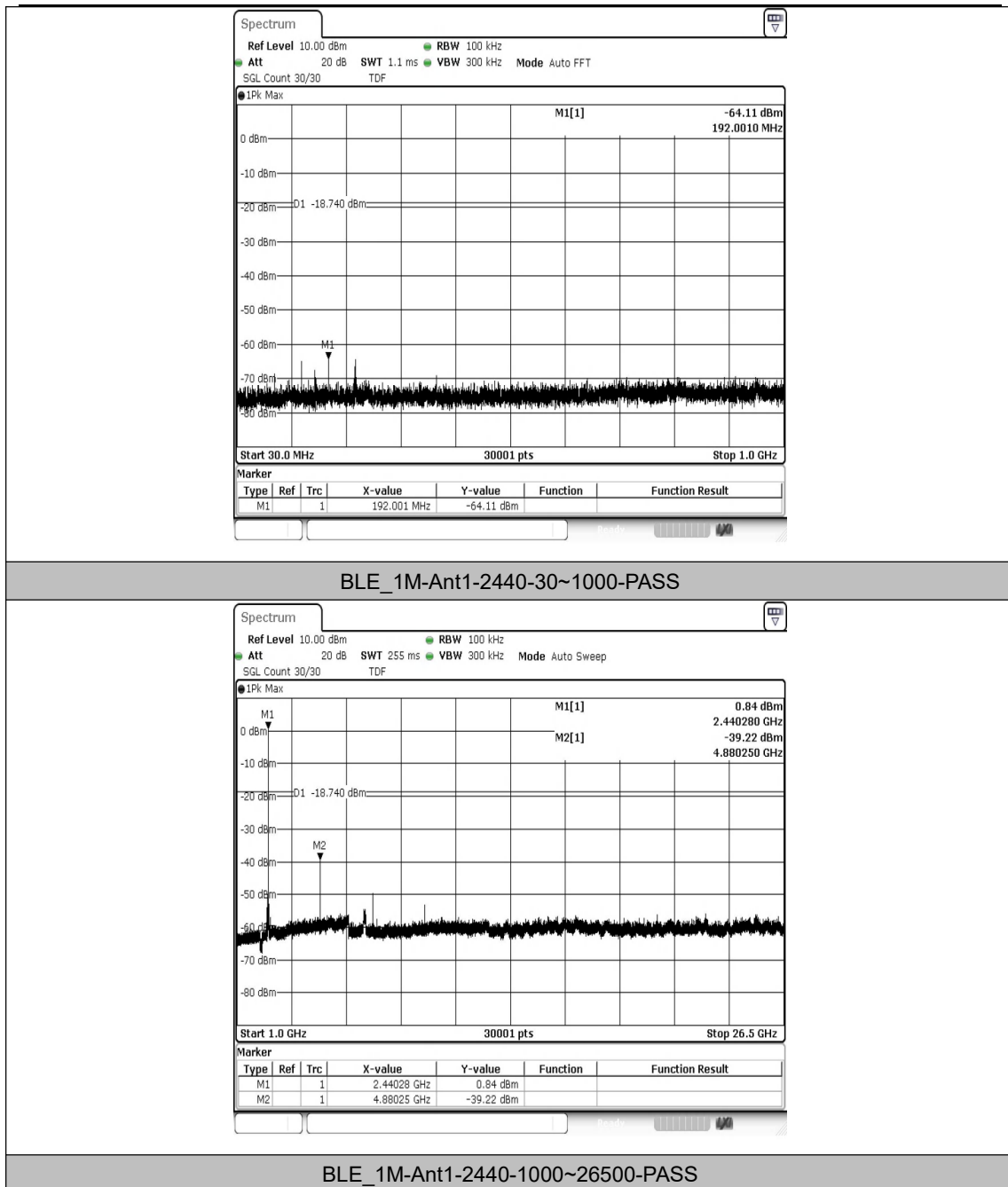
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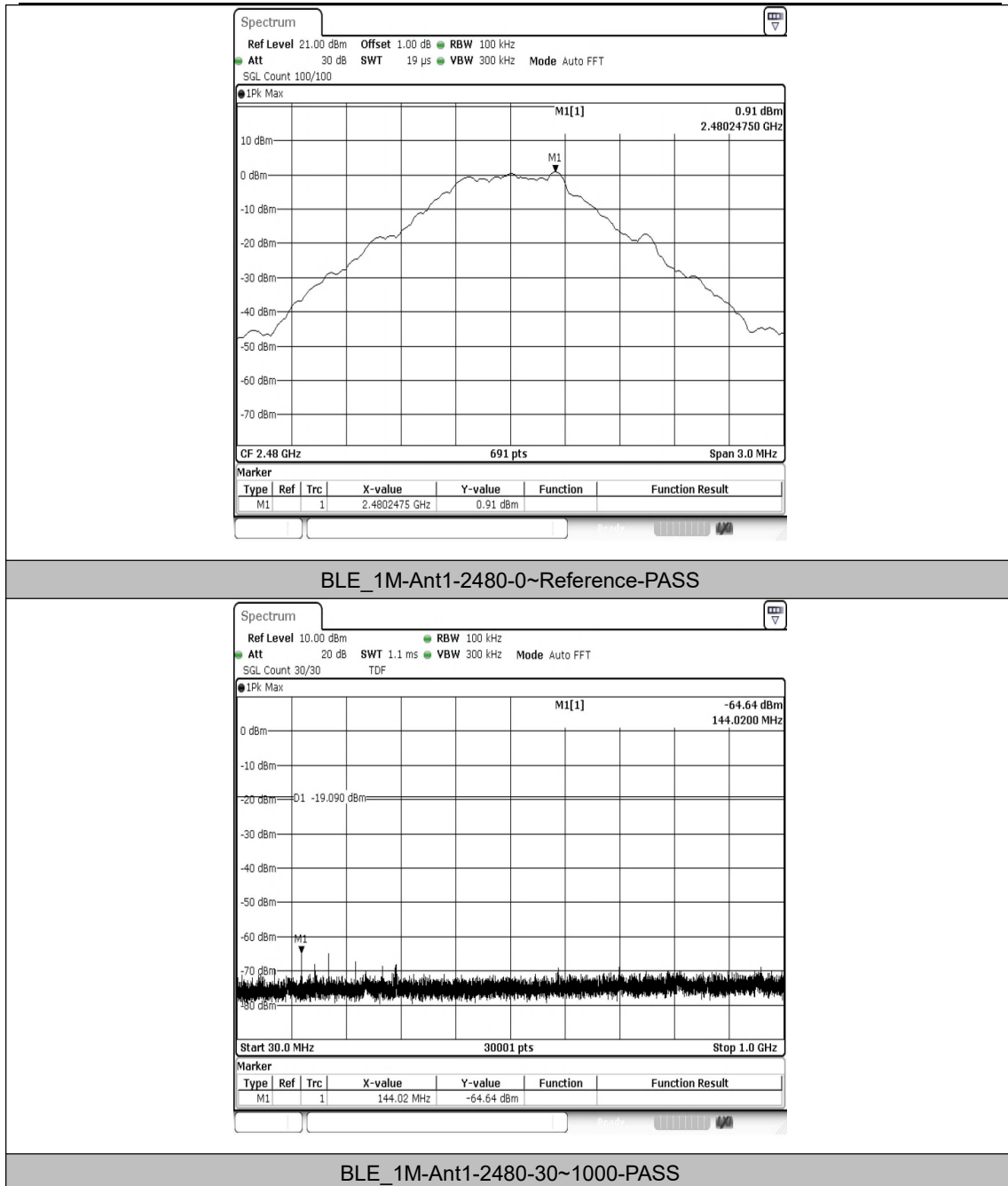
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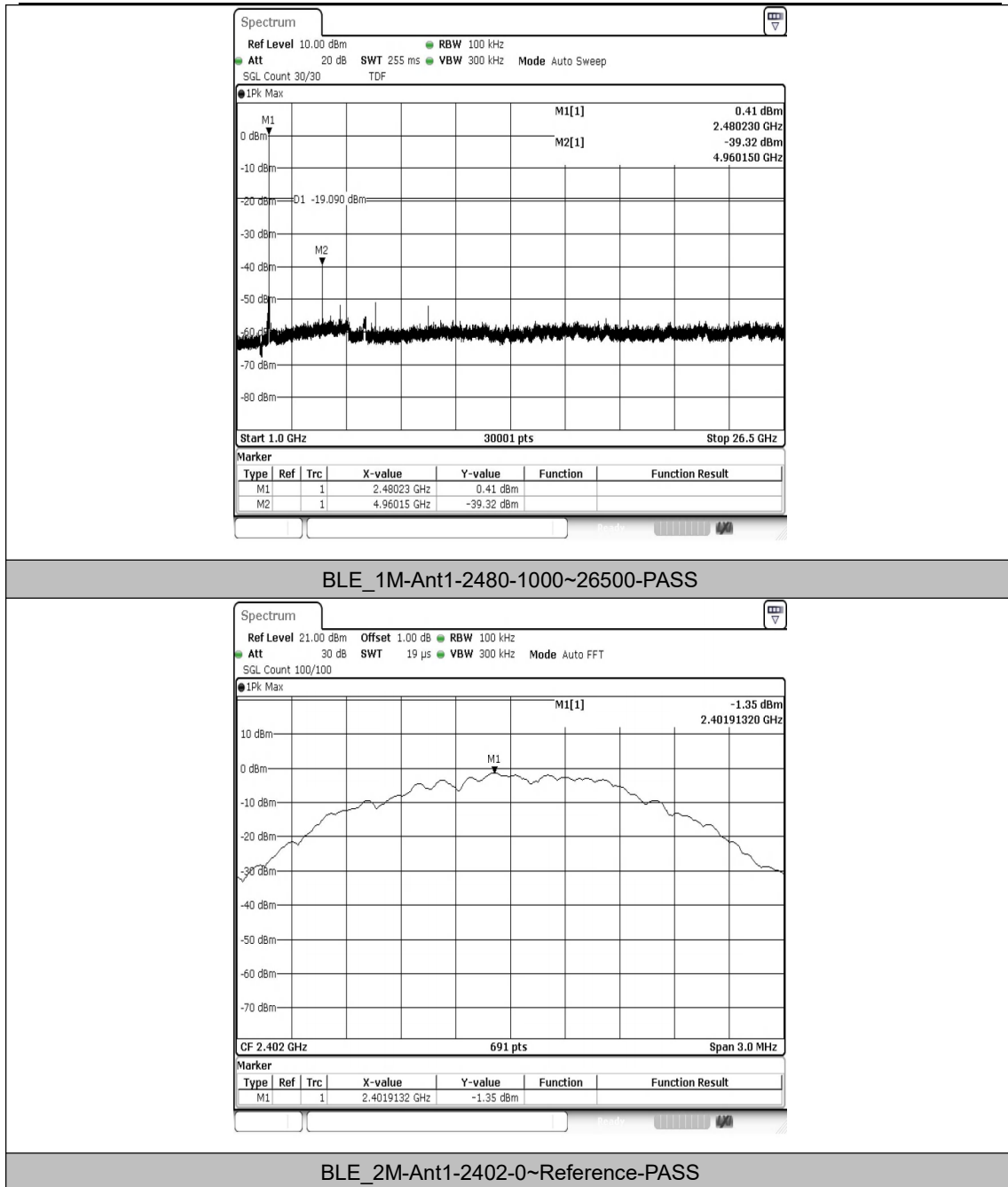




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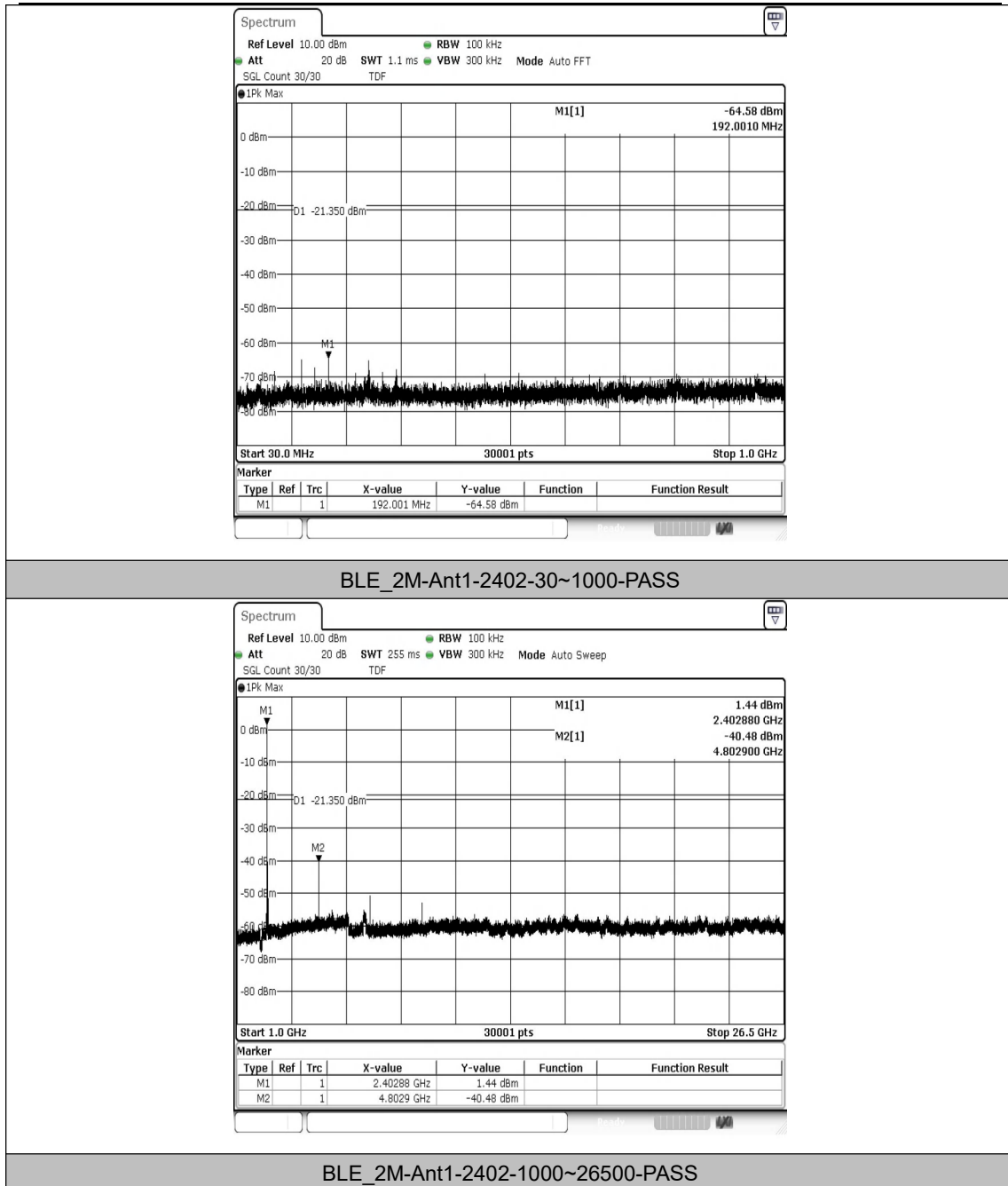
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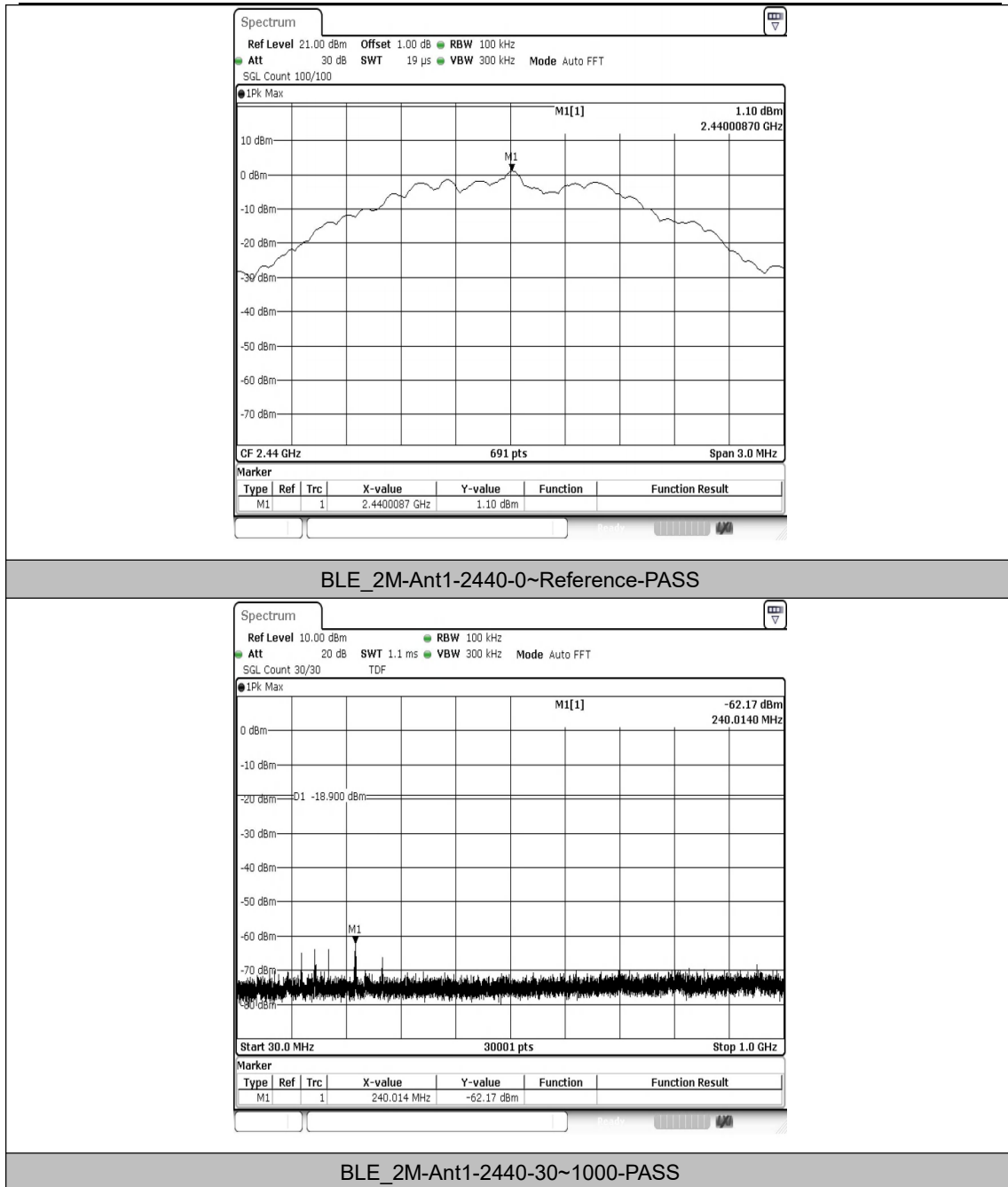


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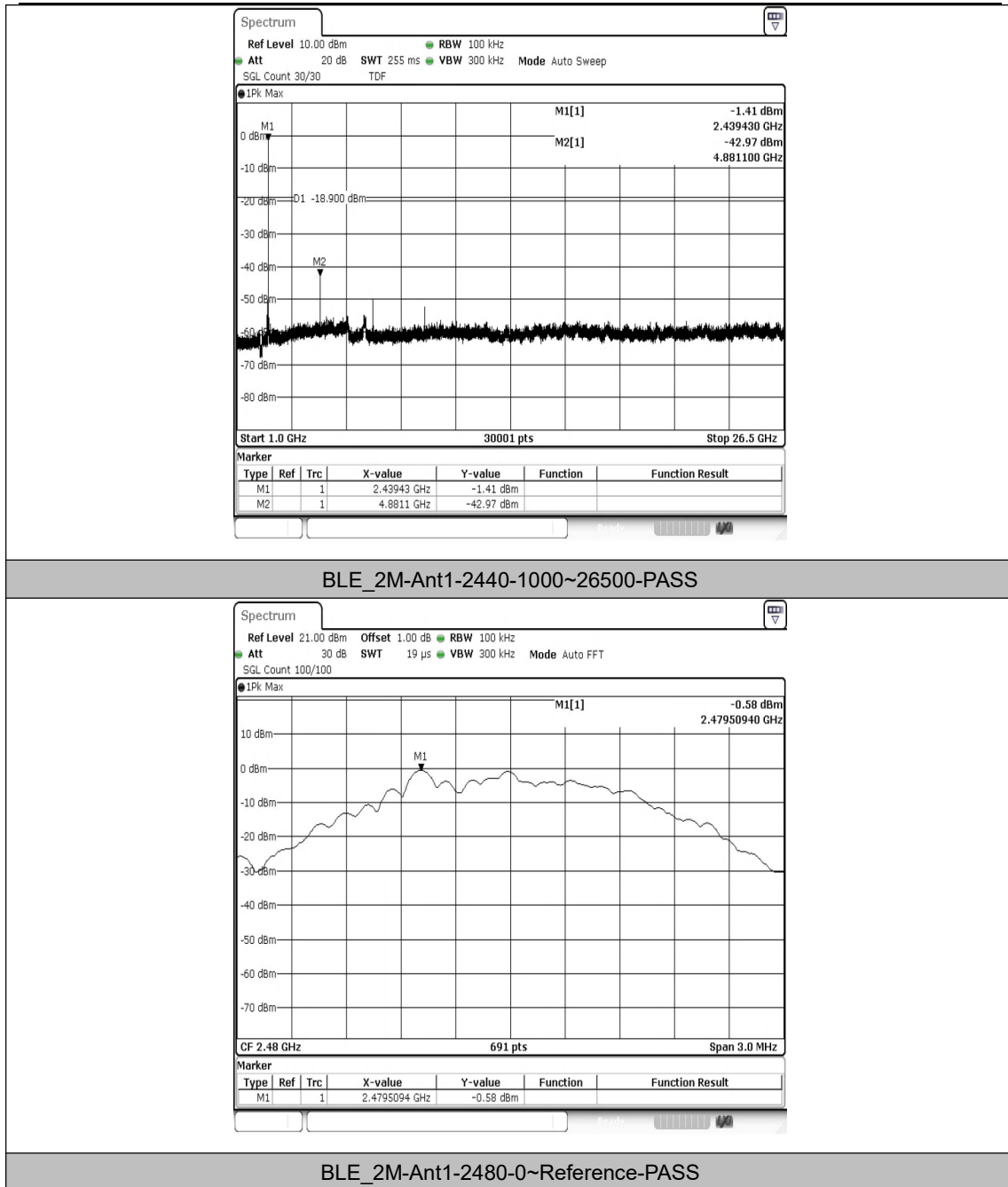




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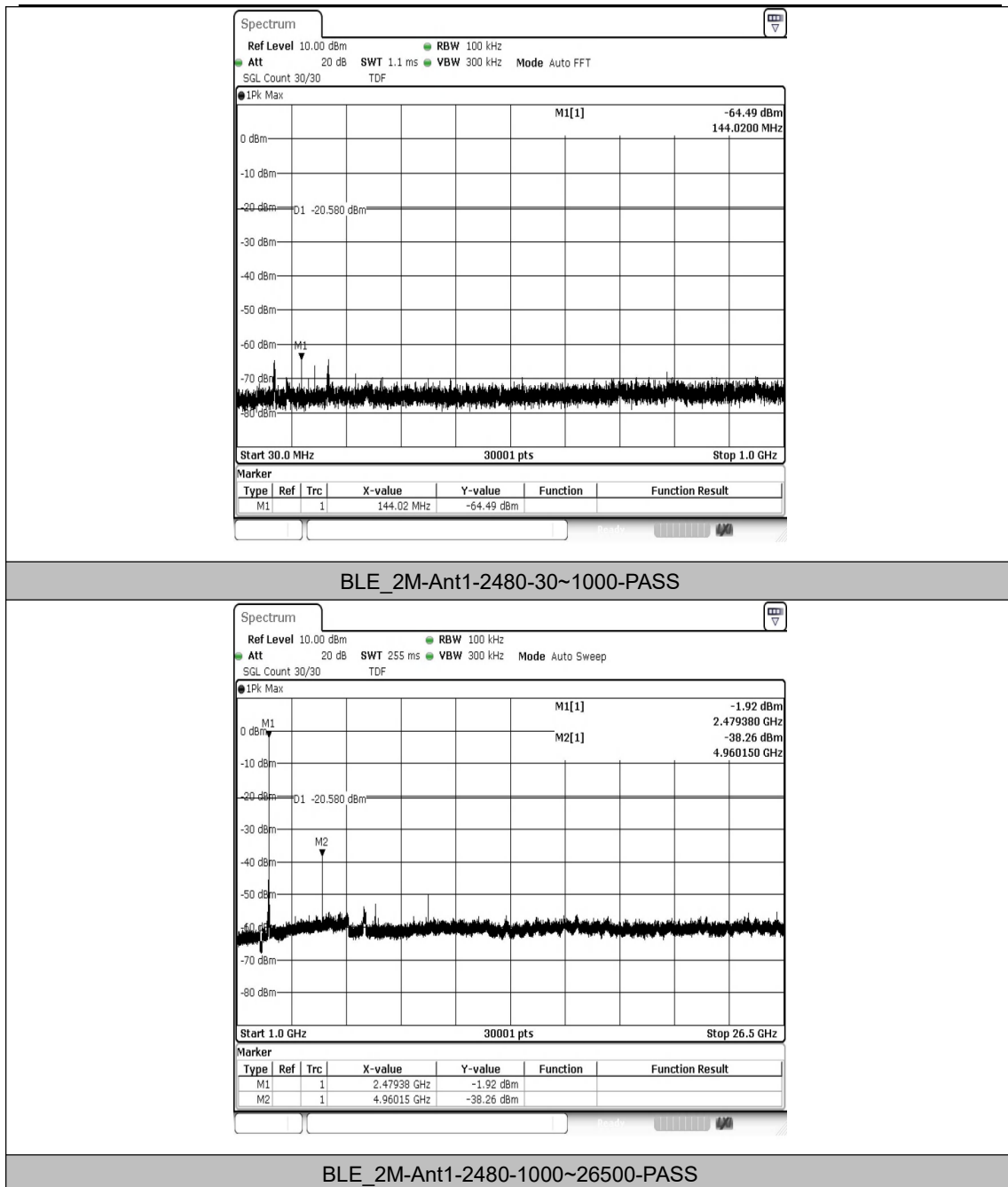
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Appendix G: Duty Cycle

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

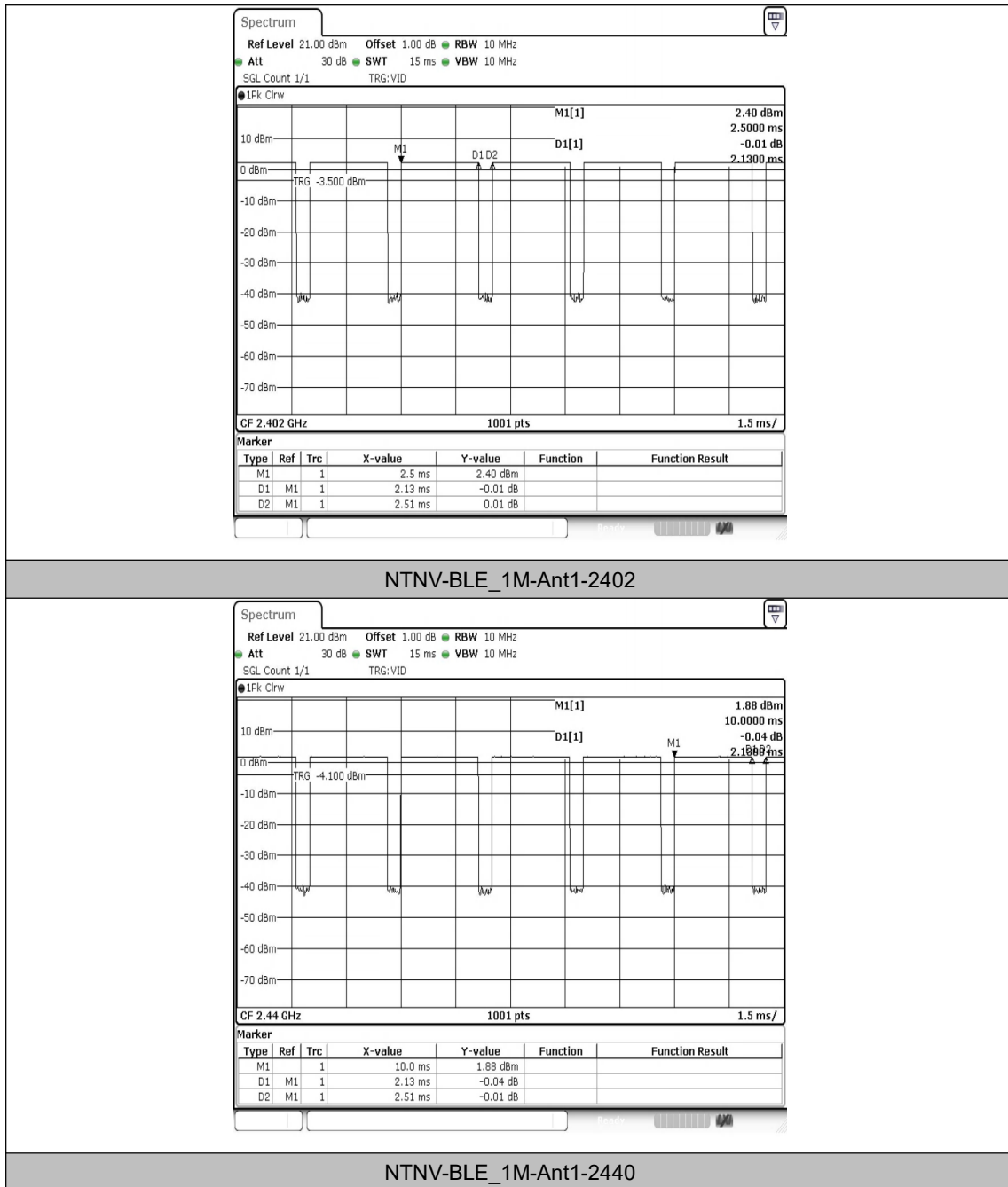
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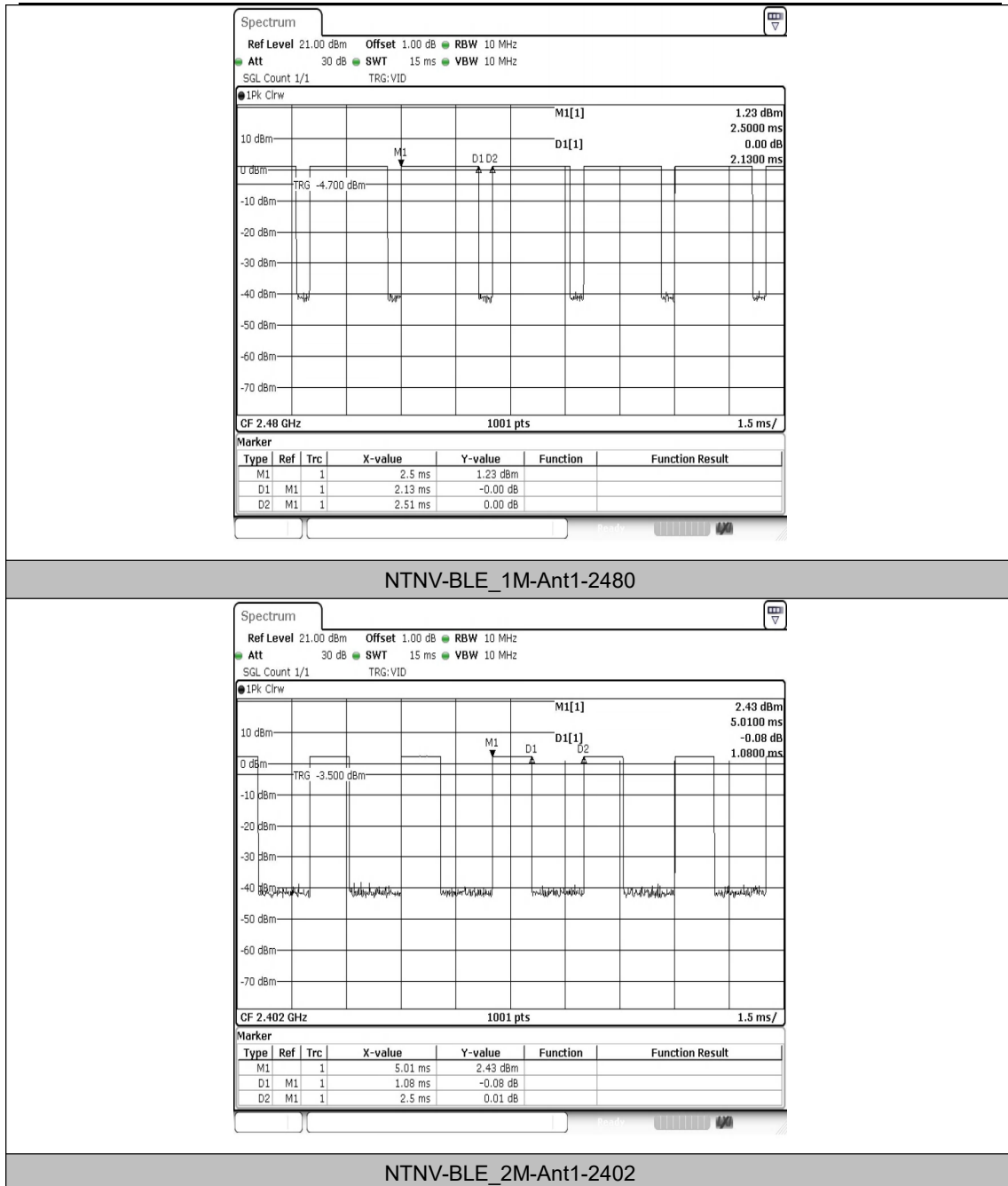
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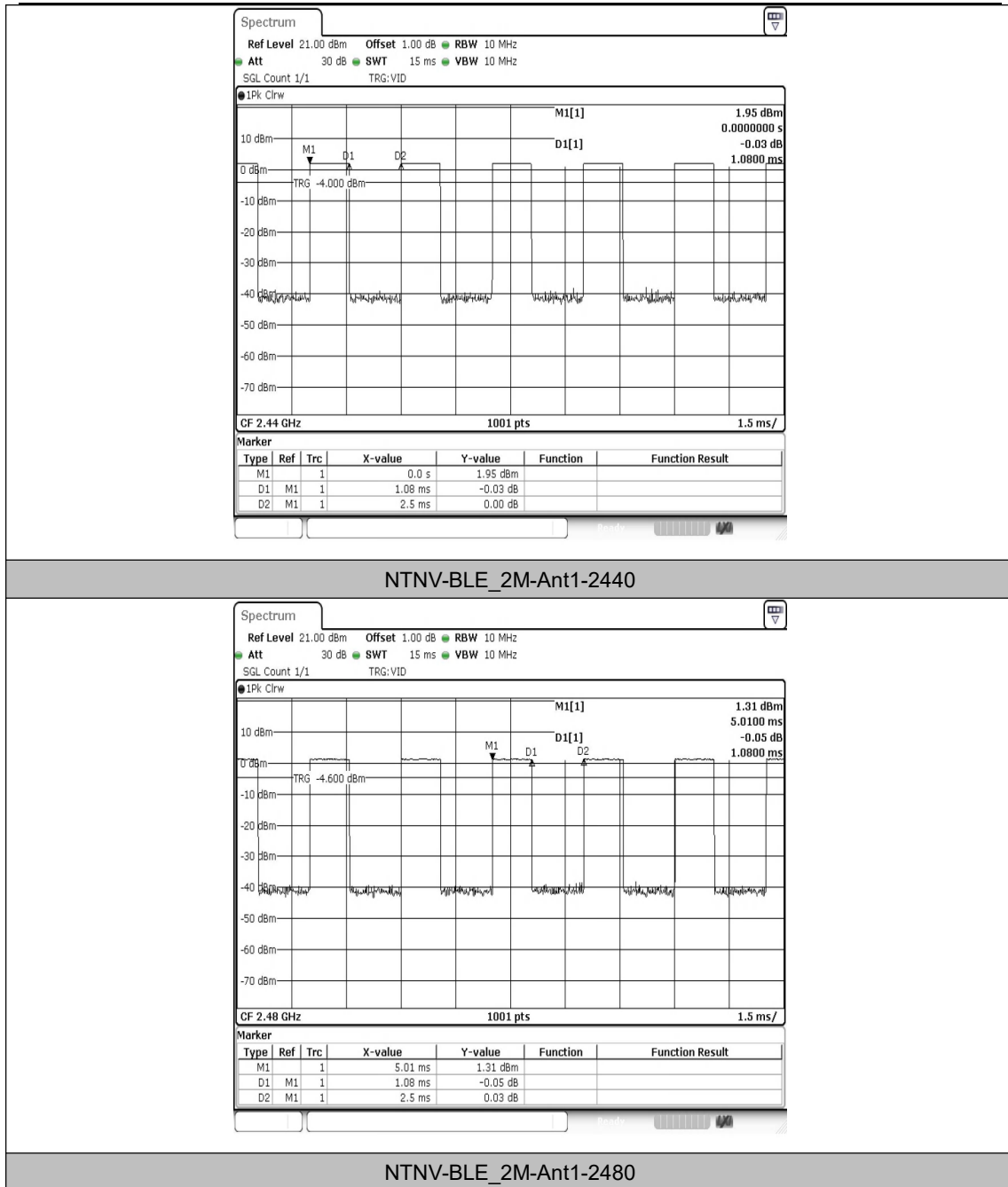


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Test Graphs







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