

Appendix Test Data

Report No.:	1812C50225112502	Test Sample No.:	1-2-2
Start Test Date:	2025-5-14	Finish Test Date:	2025-5-21
Test Engineer:	Hansen Guan	Auditor:	Justin Feng
Temperature:	26°C	Relative Humidity:	49%
Pressure:	101kPa		

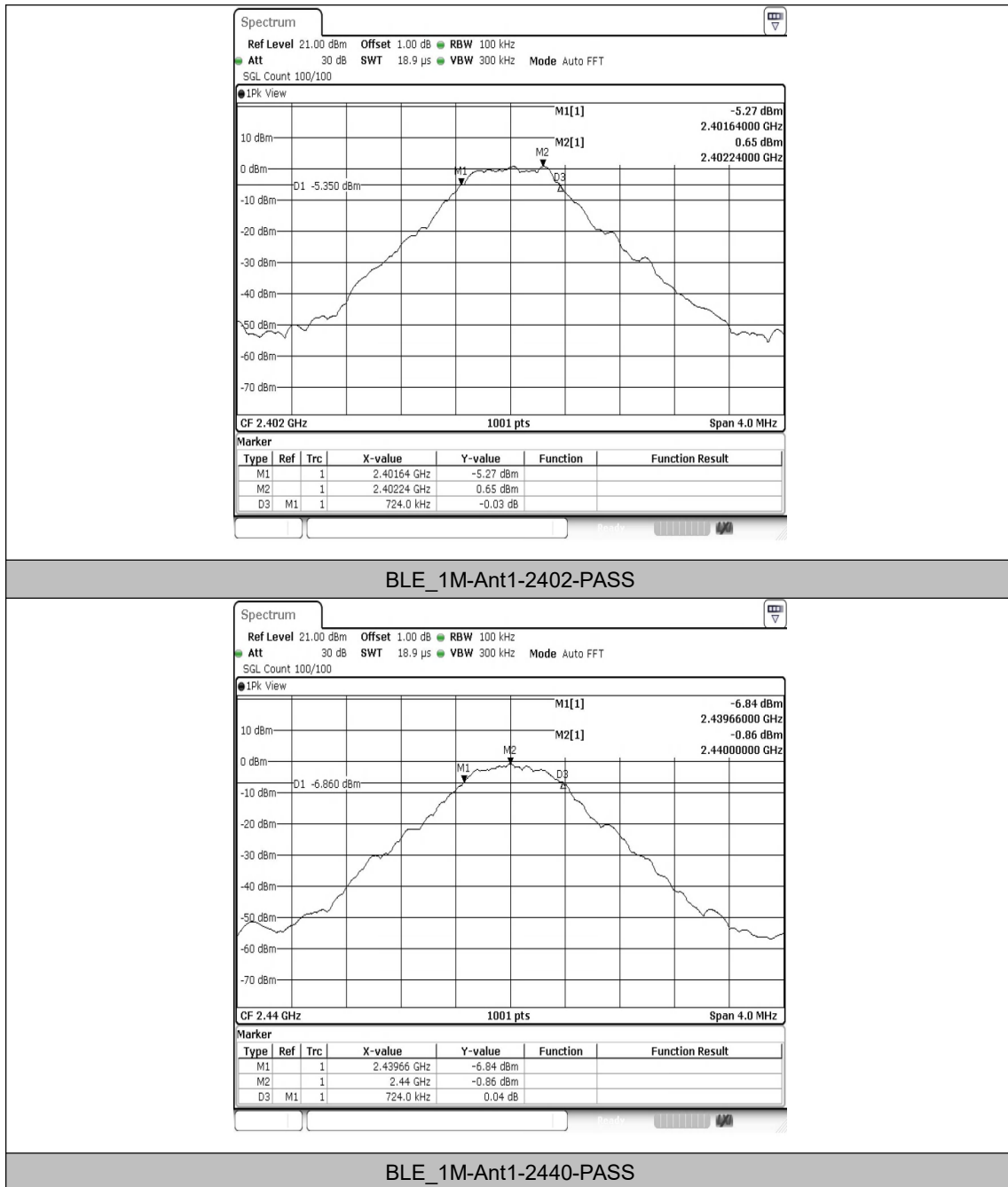
Appendix A: 6dB Bandwidth

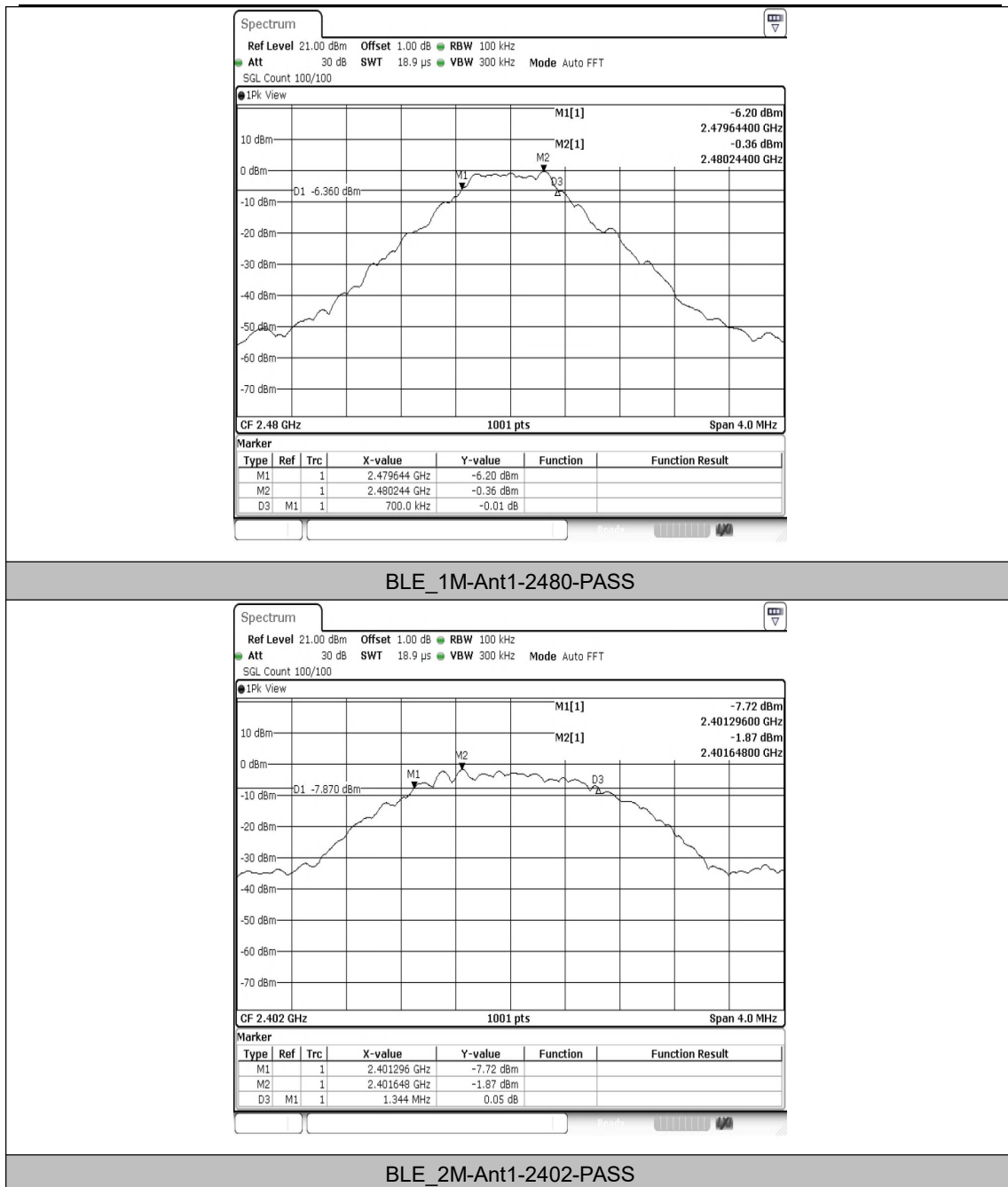
Test Result

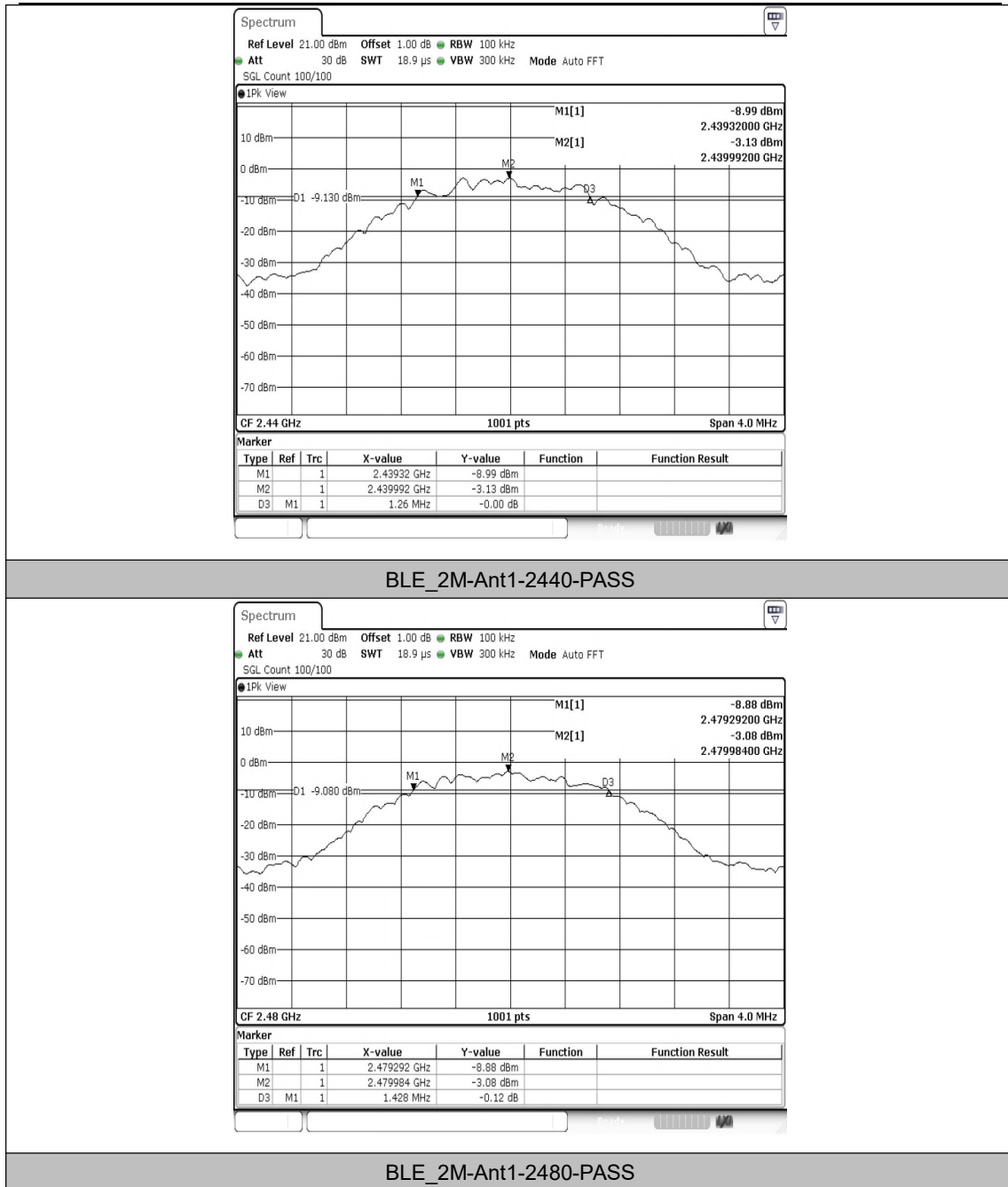
Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.72	2401.64	2402.36	0.5	PASS
BLE_1M	Ant1	2440	0.72	2439.66	2440.38	0.5	PASS
BLE_1M	Ant1	2480	0.70	2479.64	2480.34	0.5	PASS
BLE_2M	Ant1	2402	1.34	2401.30	2402.64	0.5	PASS
BLE_2M	Ant1	2440	1.26	2439.32	2440.58	0.5	PASS
BLE_2M	Ant1	2480	1.43	2479.29	2480.72	0.5	PASS



Test Graphs





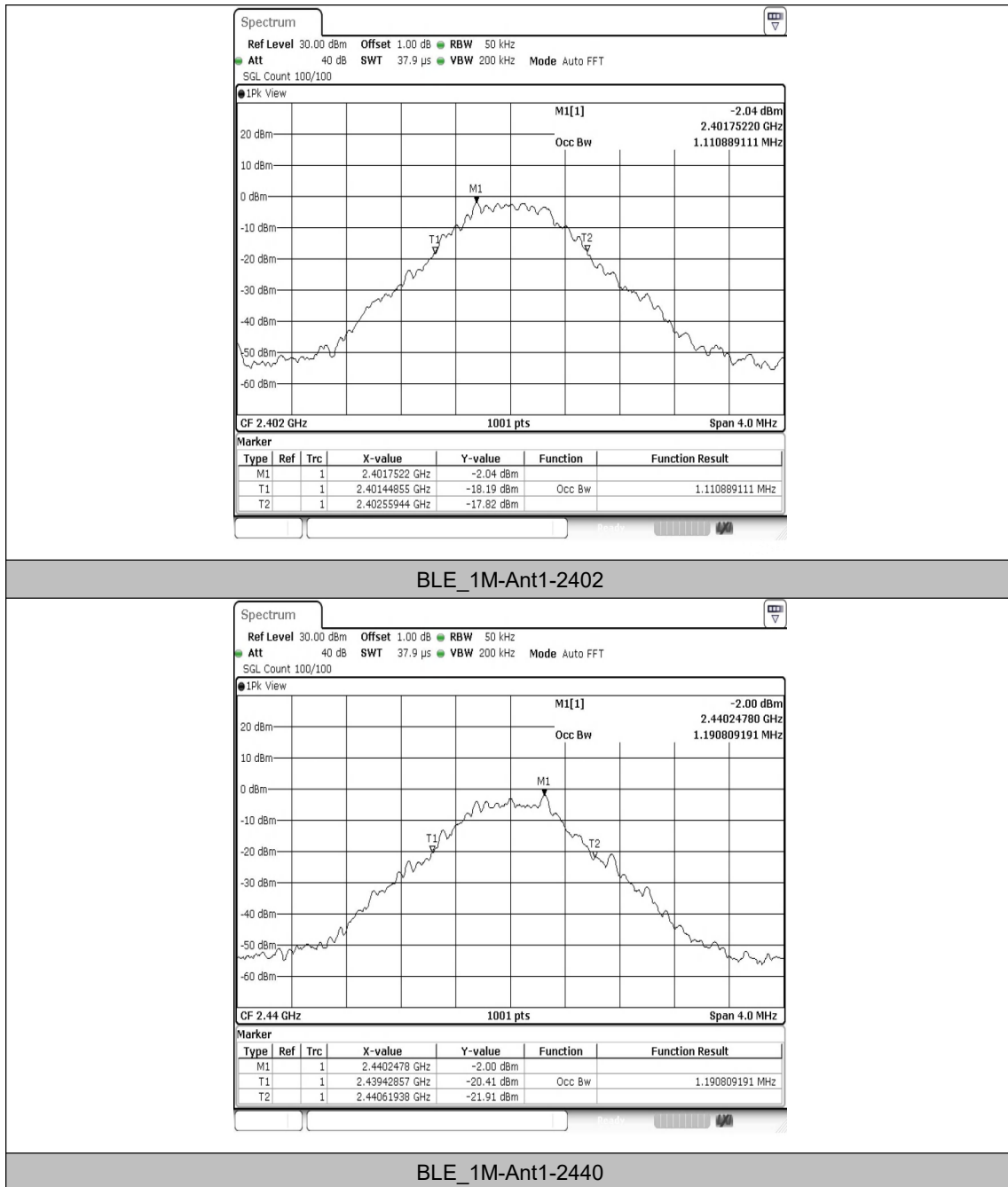


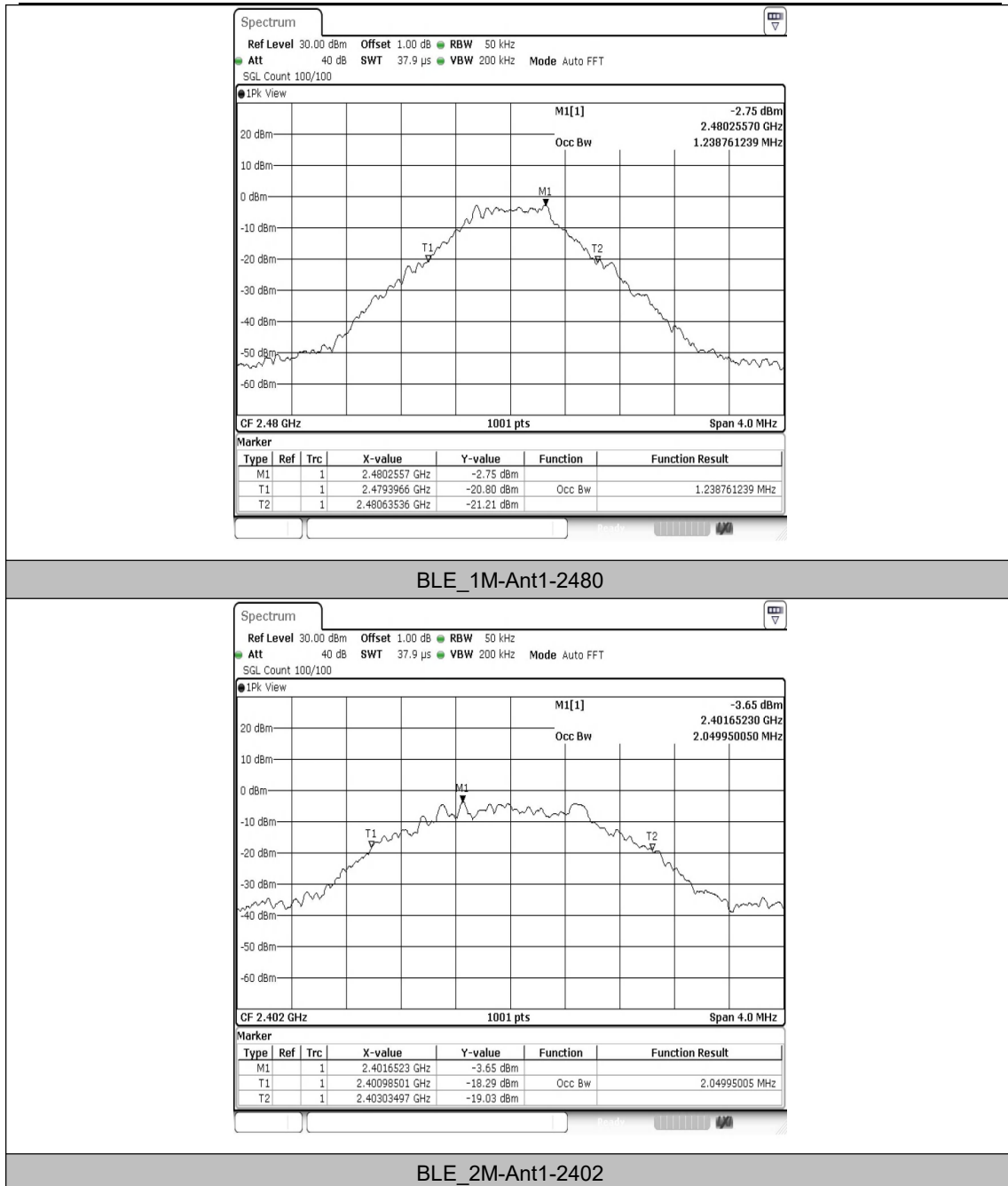
Appendix B: 99% Occupied Bandwidth

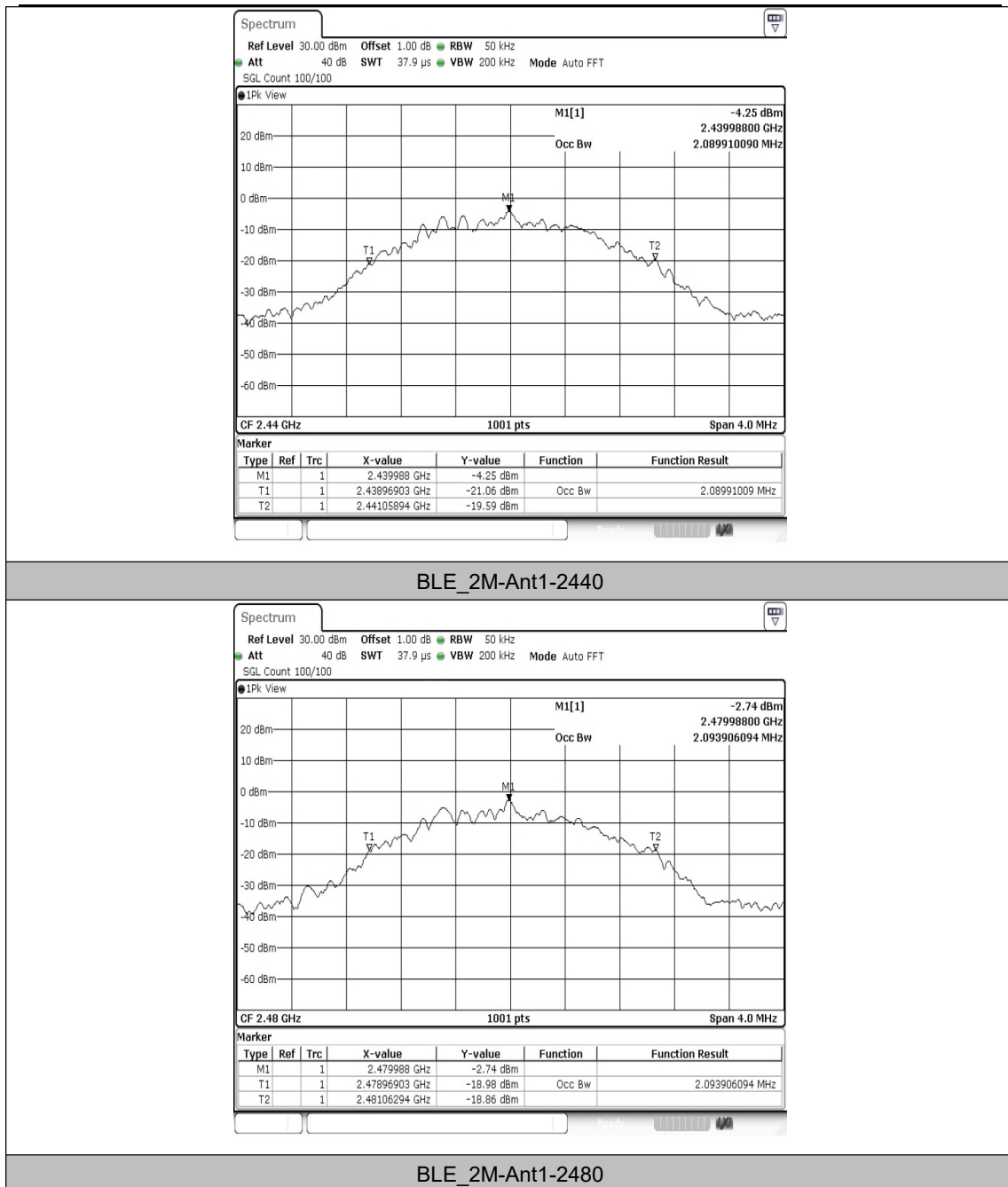
Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.1109	2401.4486	2402.5594	---	---
BLE_1M	Ant1	2440	1.1908	2439.4286	2440.6194	---	---
BLE_1M	Ant1	2480	1.2388	2479.3966	2480.6354	---	---
BLE_2M	Ant1	2402	2.0500	2400.9850	2403.0350	---	---
BLE_2M	Ant1	2440	2.0899	2438.9690	2441.0589	---	---
BLE_2M	Ant1	2480	2.0939	2478.9690	2481.0629	---	---

Test Graphs





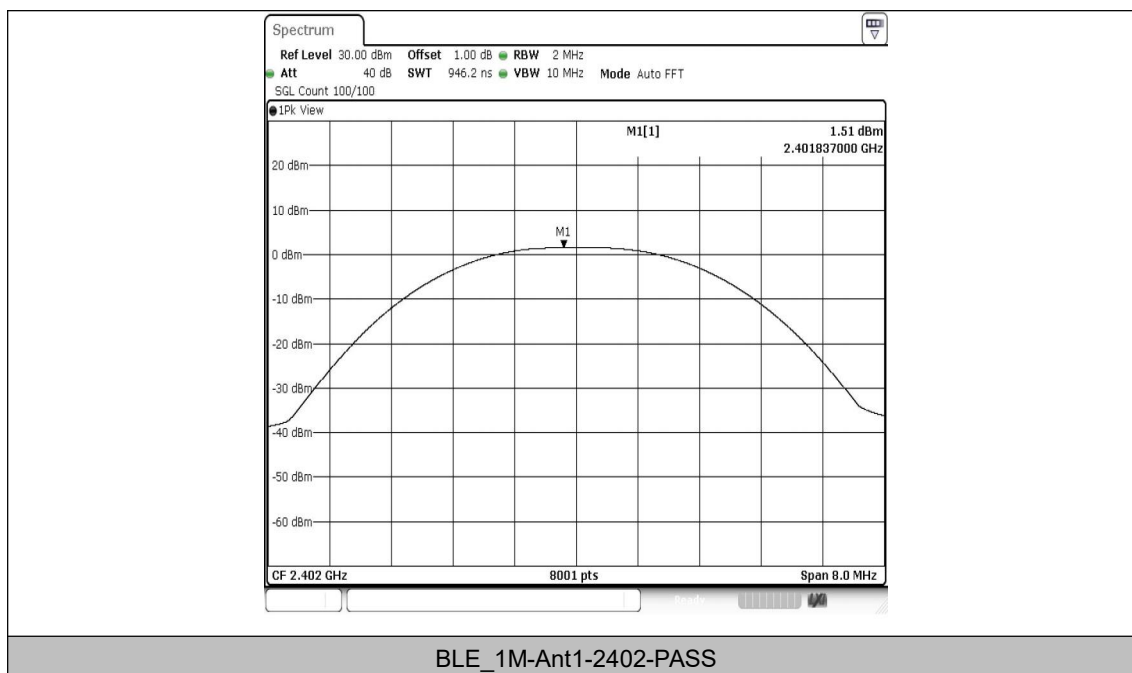


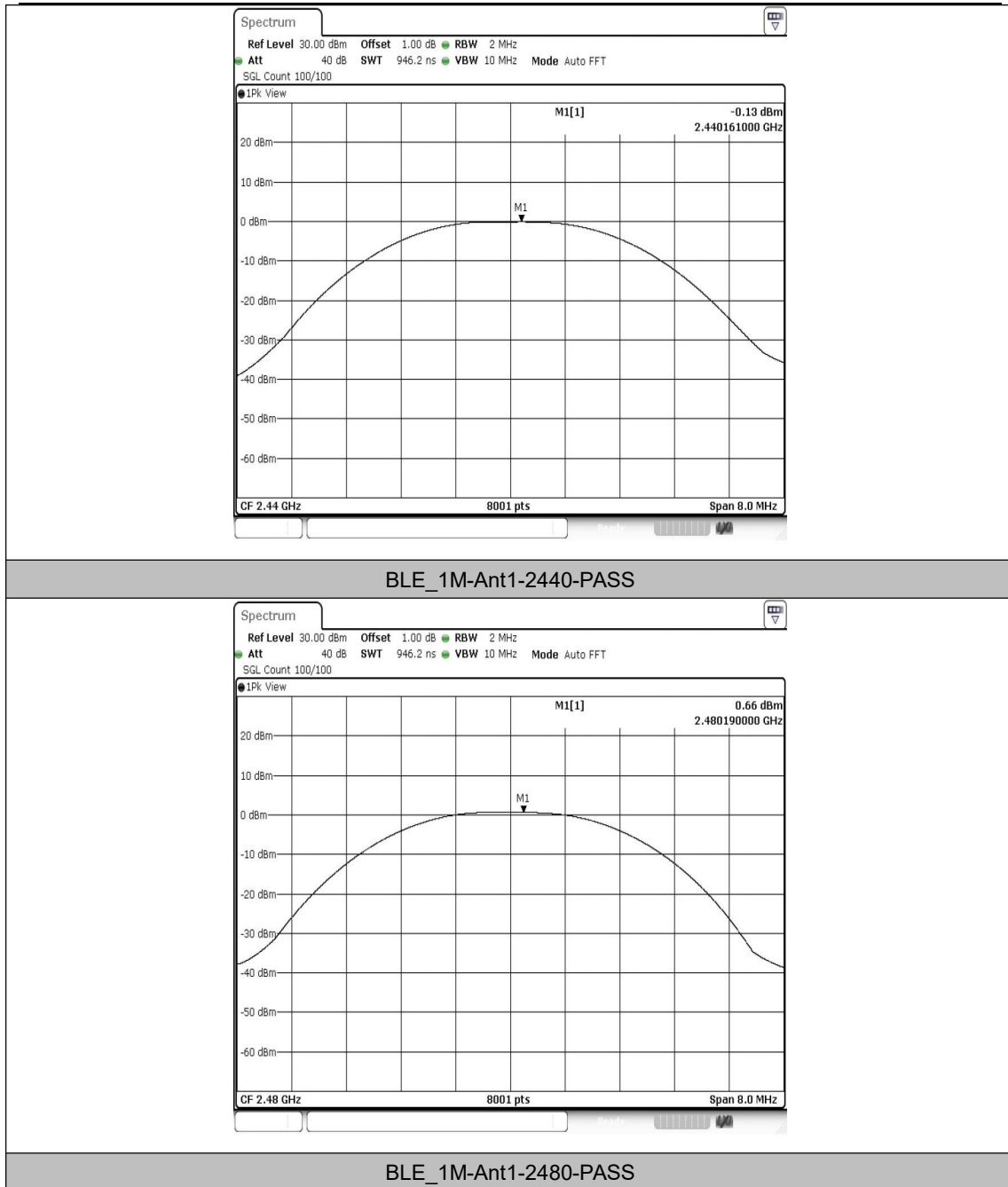
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.51	≤30	PASS
BLE_1M	Ant1	2440	-0.13	≤30	PASS
BLE_1M	Ant1	2480	0.66	≤30	PASS
BLE_2M	Ant1	2402	1.54	≤30	PASS
BLE_2M	Ant1	2440	-0.09	≤30	PASS
BLE_2M	Ant1	2480	0.74	≤30	PASS

Test Graphs Peak

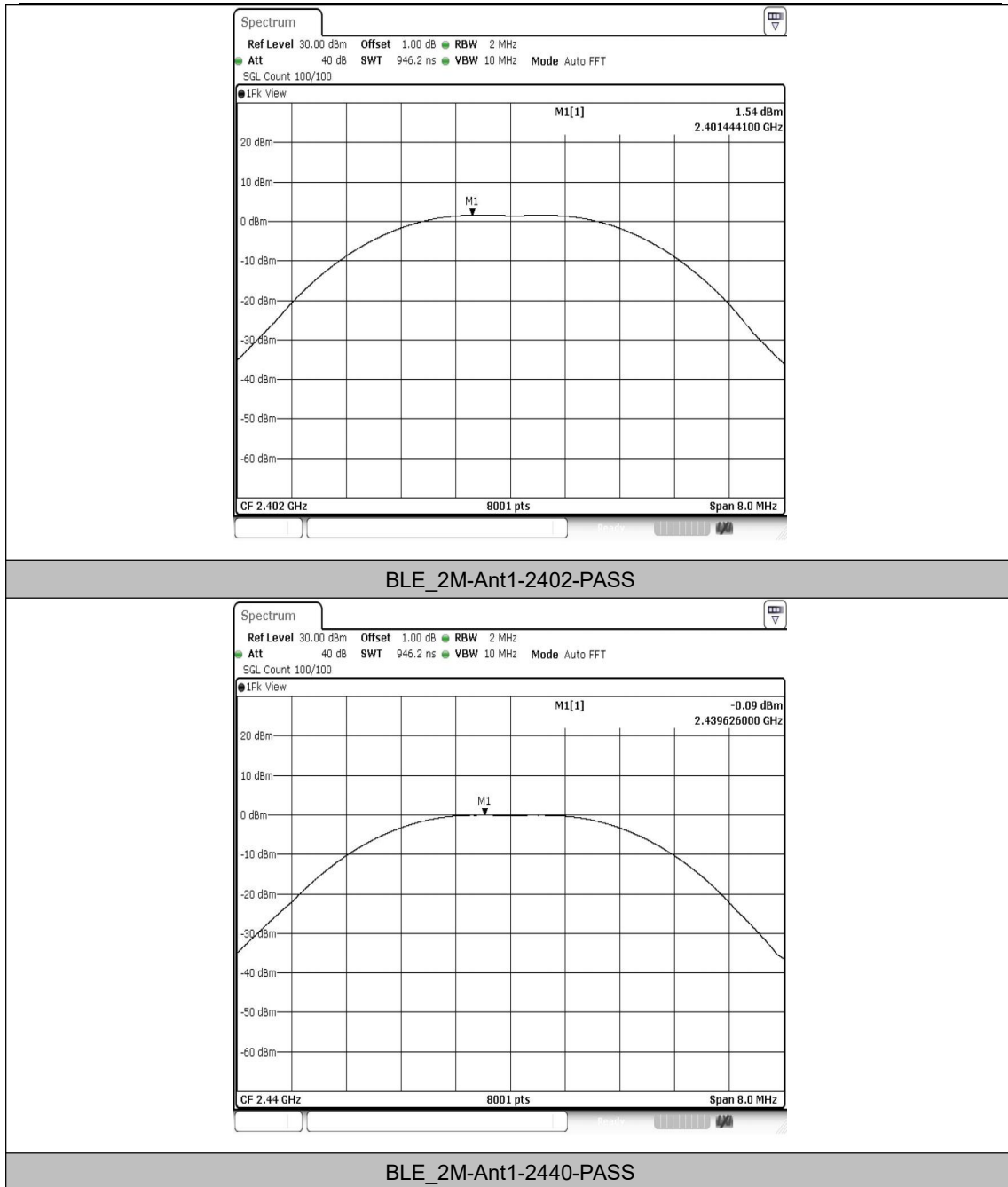




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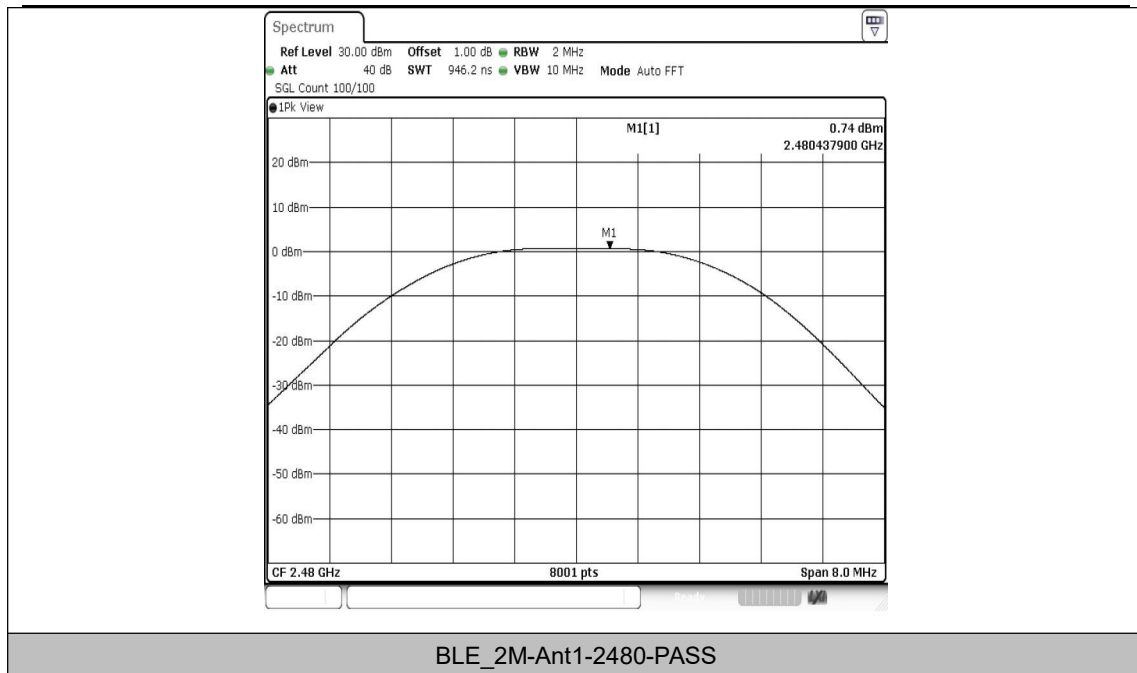
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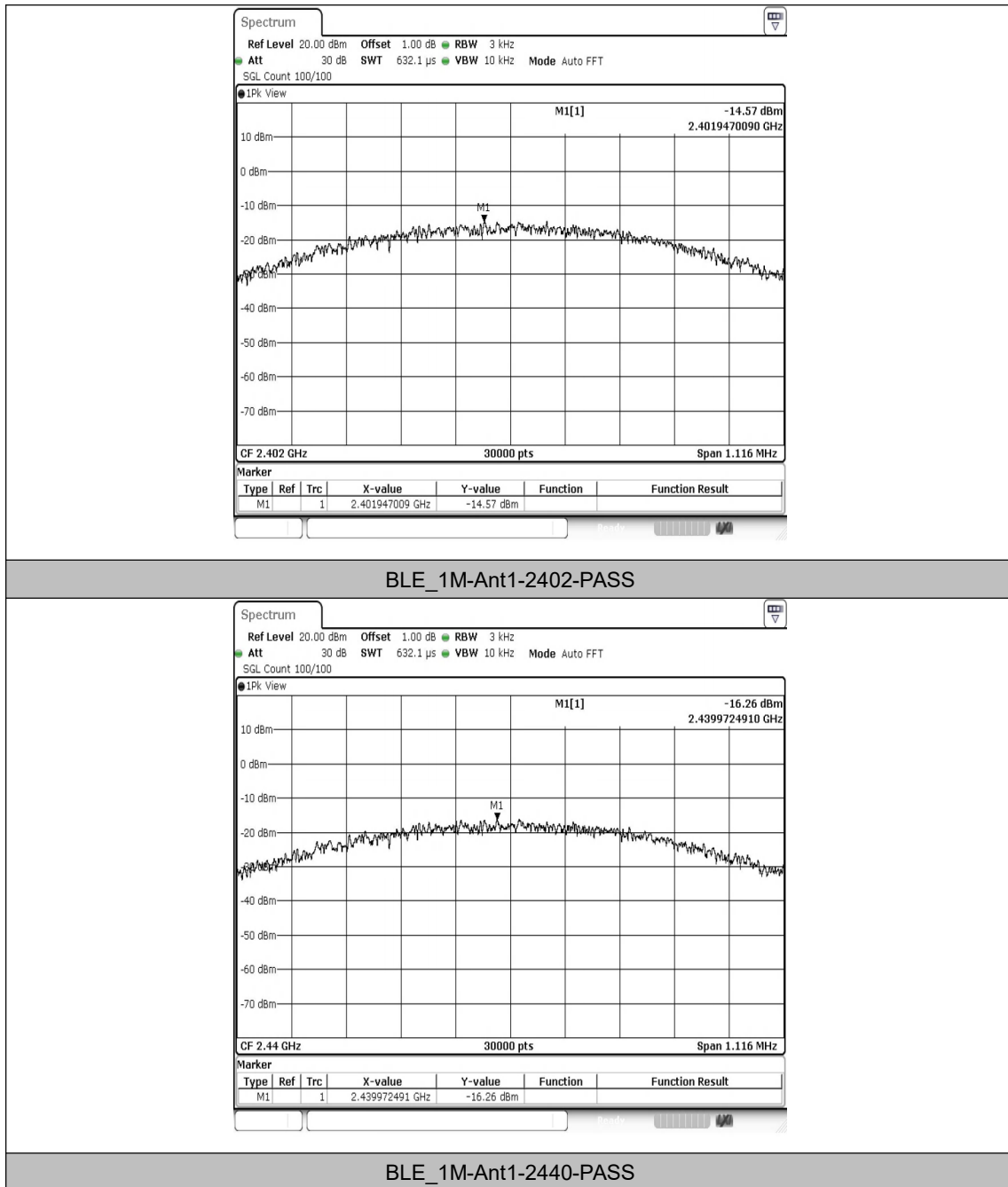
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.57	≤8.00	PASS
BLE_1M	Ant1	2440	-16.26	≤8.00	PASS
BLE_1M	Ant1	2480	-15.50	≤8.00	PASS
BLE_2M	Ant1	2402	-17.99	≤8.00	PASS
BLE_2M	Ant1	2440	-18.93	≤8.00	PASS
BLE_2M	Ant1	2480	-18.04	≤8.00	PASS



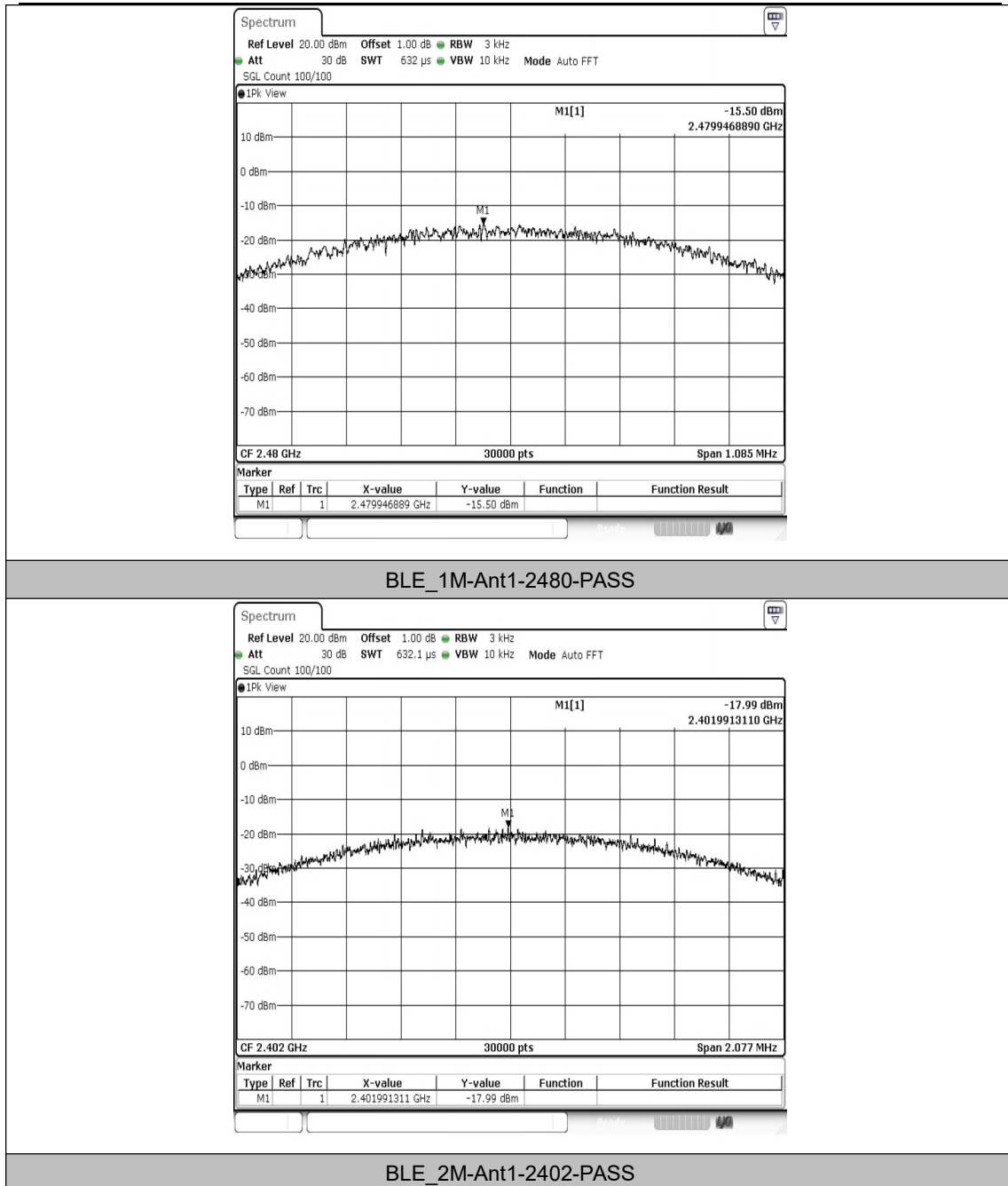
Test Graphs



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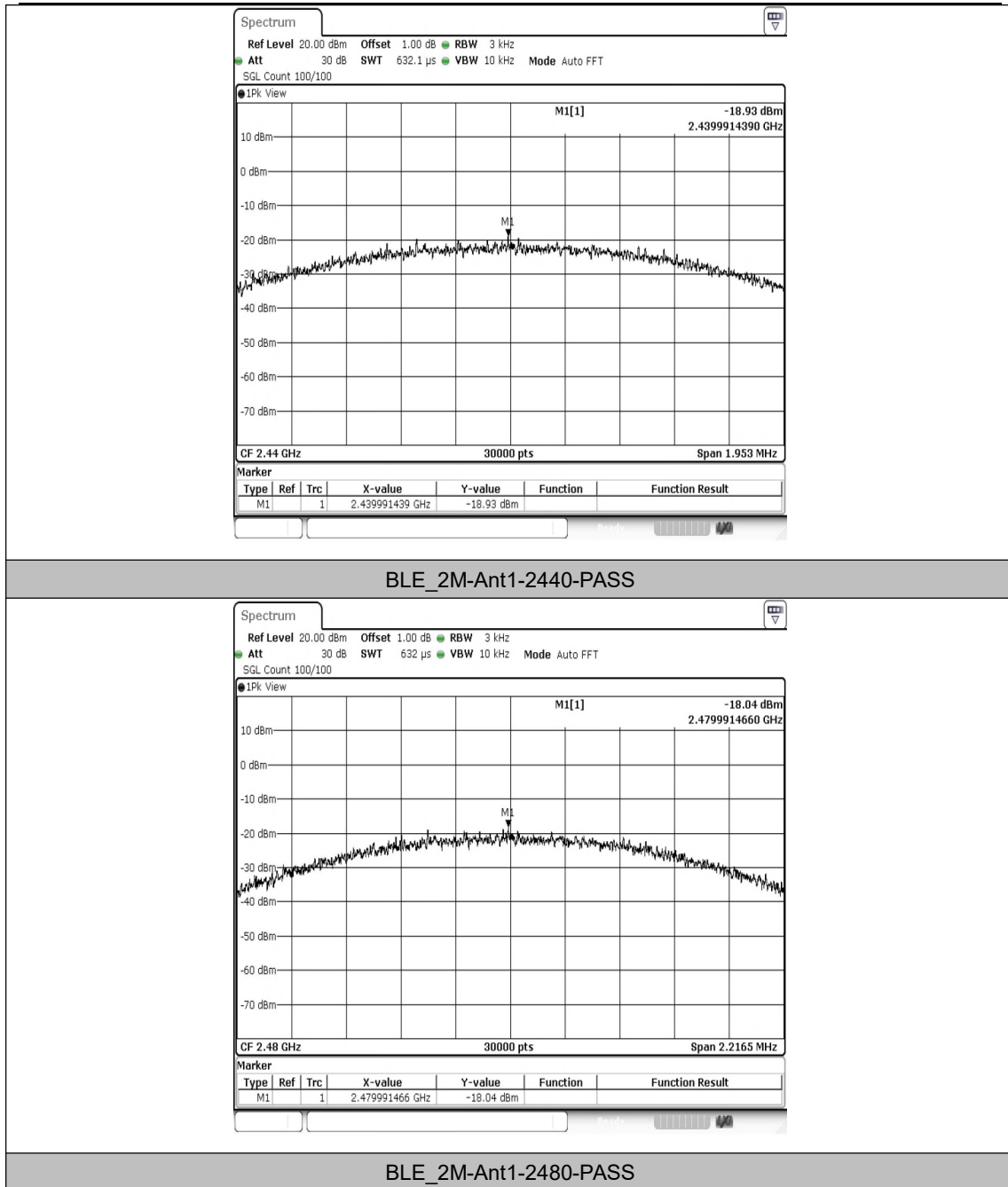
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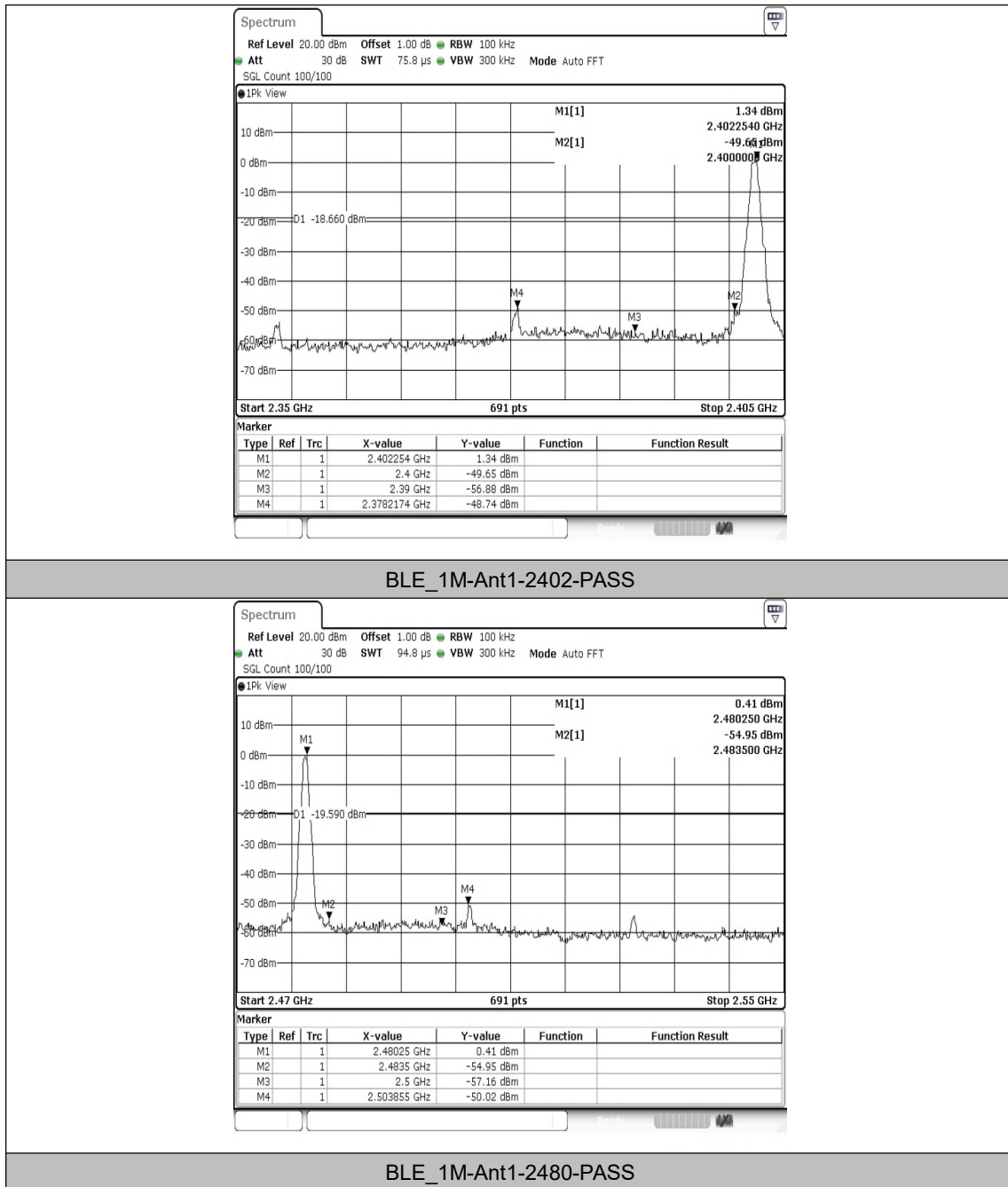
Appendix E: Band edge measurements

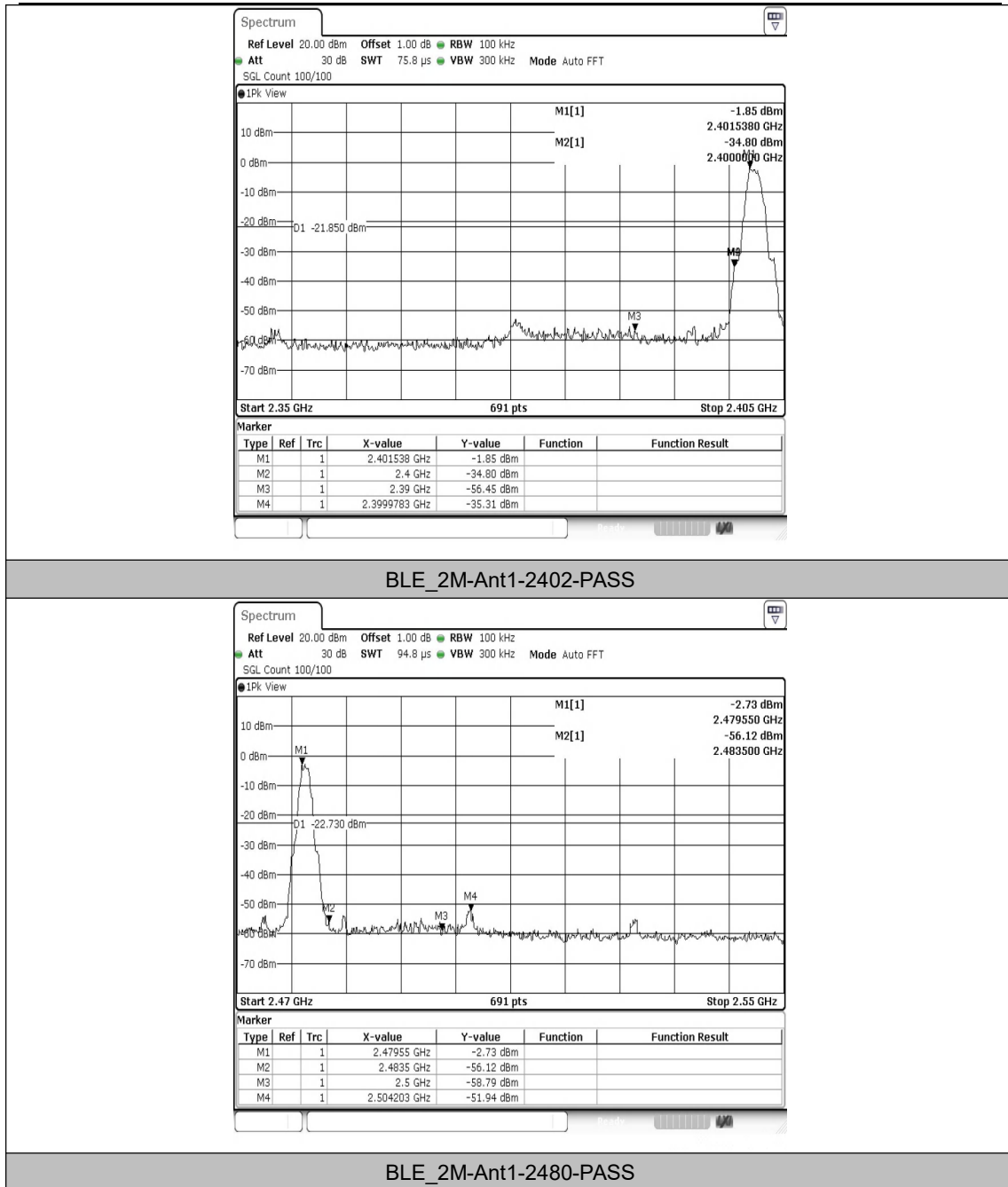
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.34	-48.74	≤-18.66	PASS
BLE_1M	Ant1	High	2480	0.41	-50.02	≤-19.59	PASS
BLE_2M	Ant1	Low	2402	-1.85	-35.31	≤-21.85	PASS
BLE_2M	Ant1	High	2480	-2.73	-51.94	≤-22.73	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





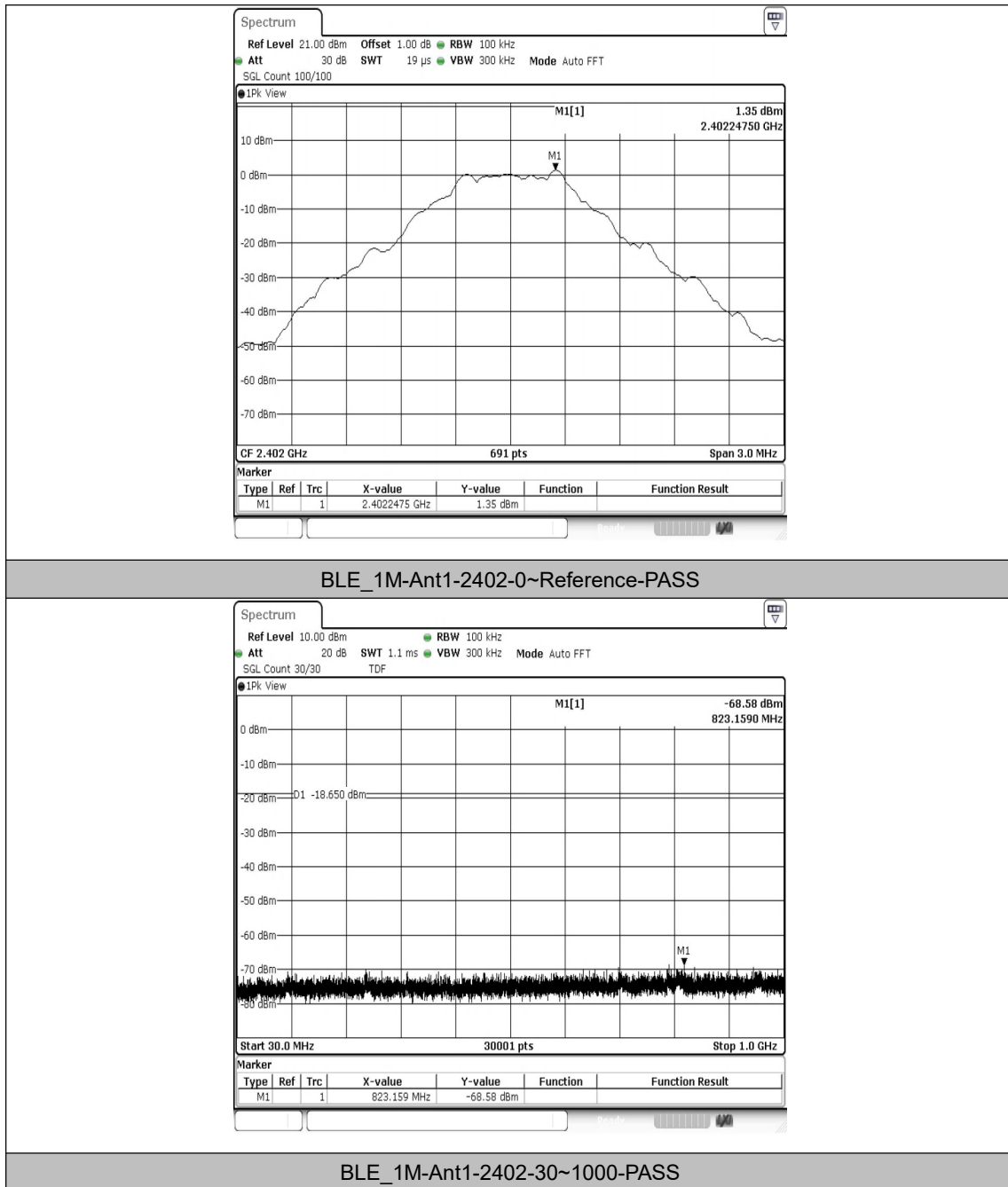
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	1.35	1.35	---	PASS
BLE_1M	Ant1	2402	30~1000	1.35	-68.58	≤-18.65	PASS
BLE_1M	Ant1	2402	1000~26500	1.35	-40.85	≤-18.65	PASS
BLE_1M	Ant1	2440	0~Reference	-0.27	-0.27	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.27	-68.87	≤-20.27	PASS
BLE_1M	Ant1	2440	1000~26500	-0.27	-40.32	≤-20.27	PASS
BLE_1M	Ant1	2480	0~Reference	0.41	0.41	---	PASS
BLE_1M	Ant1	2480	30~1000	0.41	-68.63	≤-19.59	PASS
BLE_1M	Ant1	2480	1000~26500	0.41	-39.98	≤-19.59	PASS
BLE_2M	Ant1	2402	0~Reference	-1.88	-1.88	---	PASS
BLE_2M	Ant1	2402	30~1000	-1.88	-68.32	≤-21.88	PASS
BLE_2M	Ant1	2402	1000~26500	-1.88	-43.09	≤-21.88	PASS
BLE_2M	Ant1	2440	0~Reference	-4.01	-4.01	---	PASS
BLE_2M	Ant1	2440	30~1000	-4.01	-68.82	≤-24.01	PASS
BLE_2M	Ant1	2440	1000~26500	-4.01	-40.18	≤-24.01	PASS
BLE_2M	Ant1	2480	0~Reference	-2.49	-2.49	---	PASS
BLE_2M	Ant1	2480	30~1000	-2.49	-69.36	≤-22.49	PASS
BLE_2M	Ant1	2480	1000~26500	-2.49	-40.57	≤-22.49	PASS

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

Test Graphs



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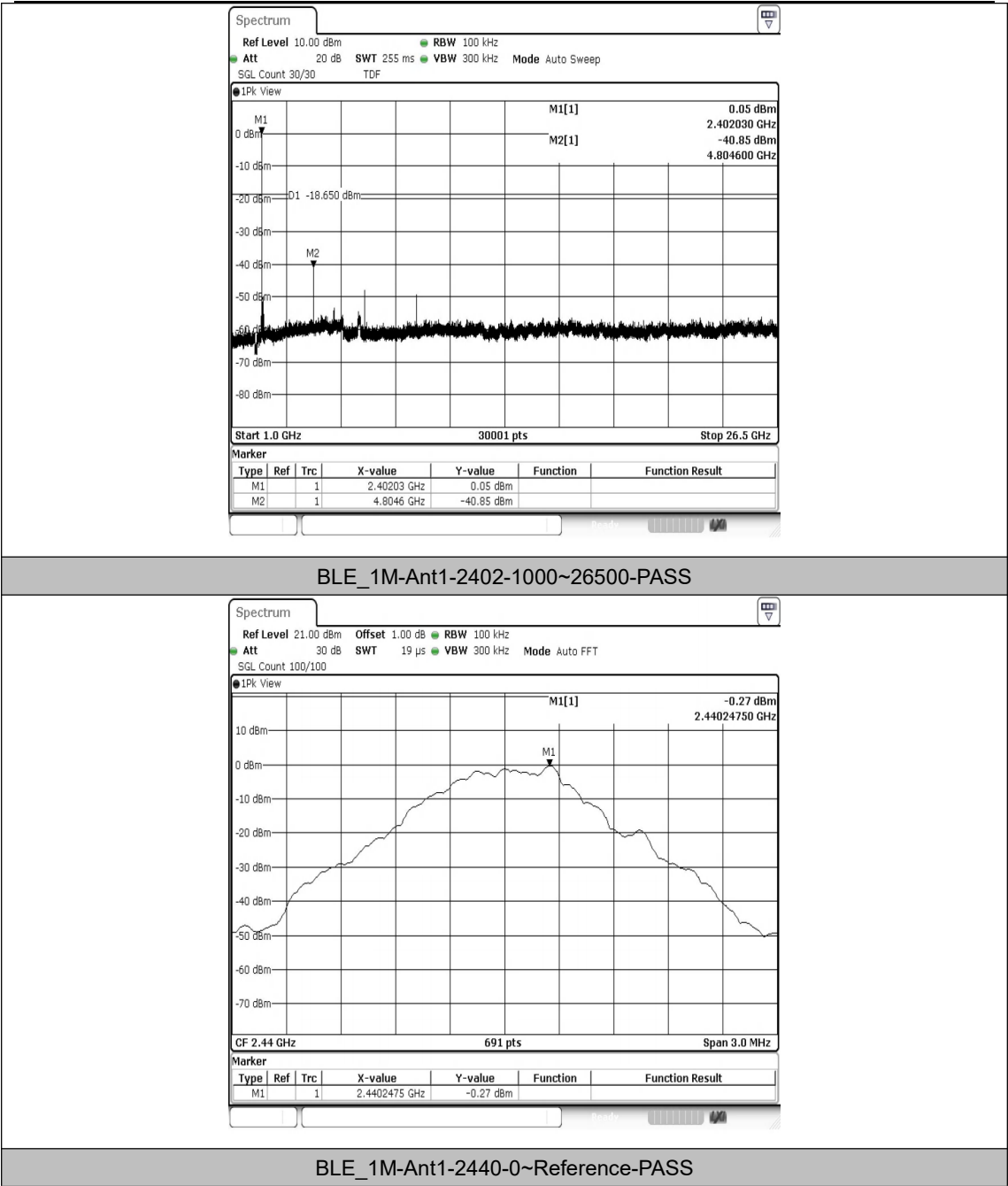
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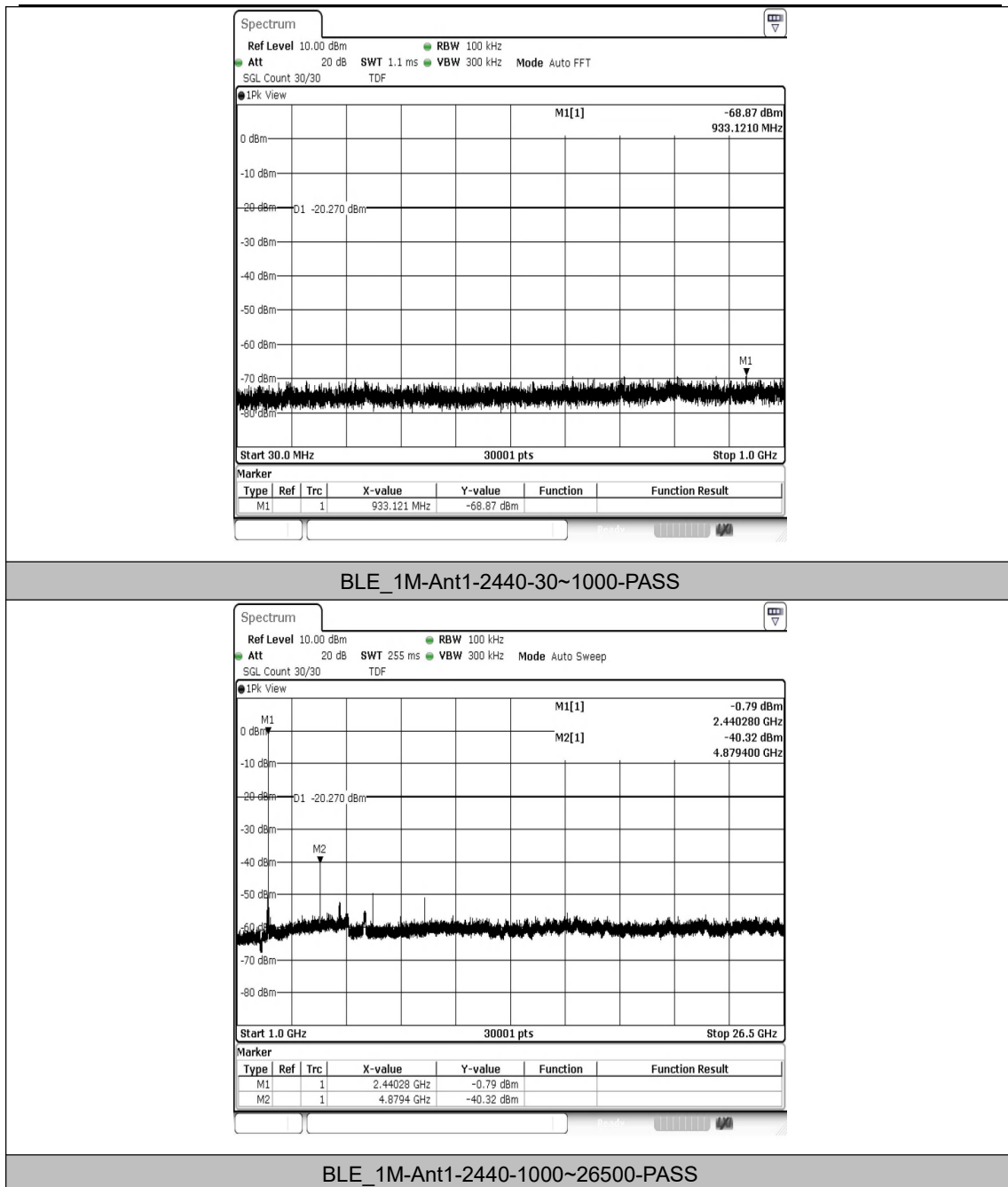
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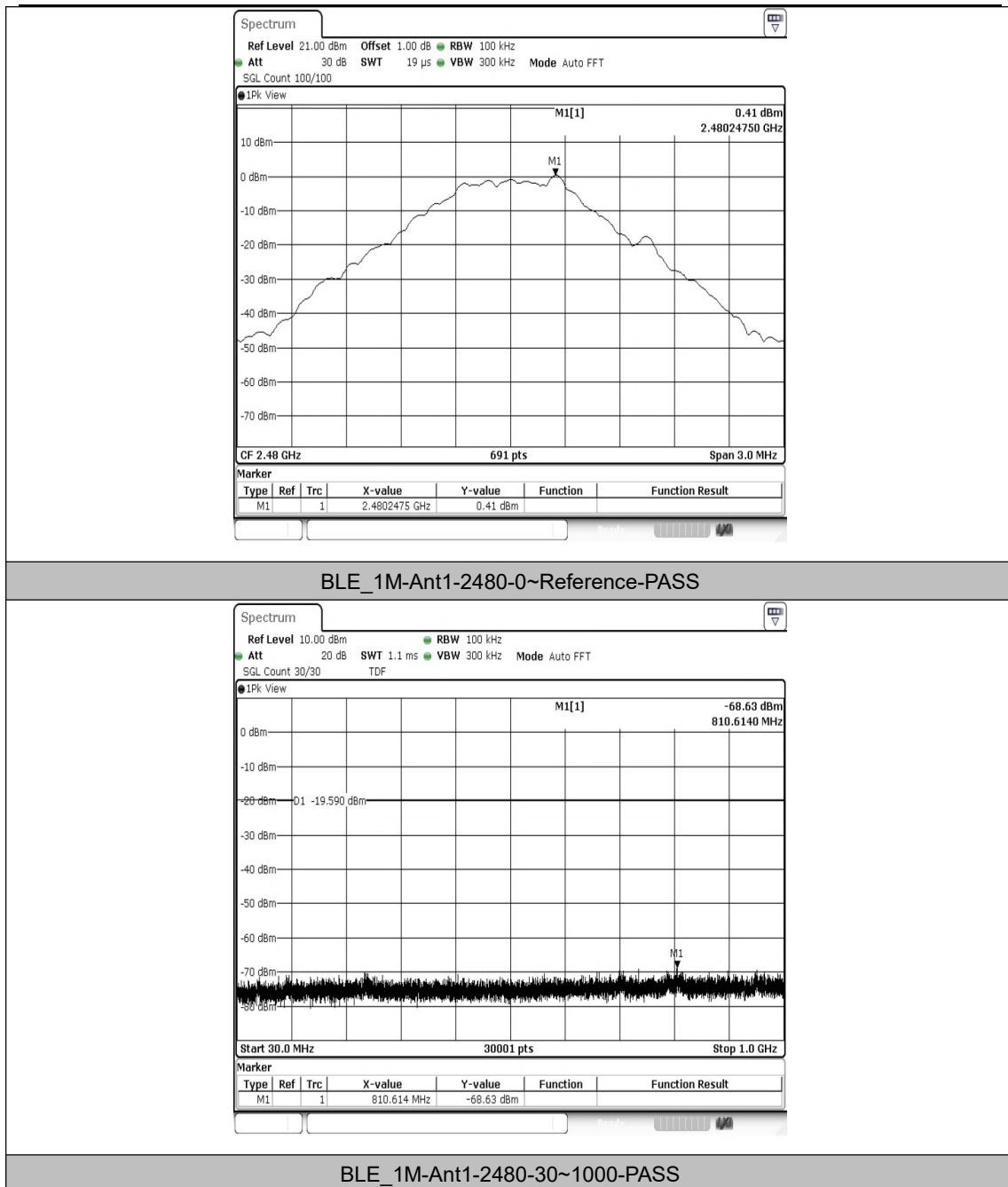
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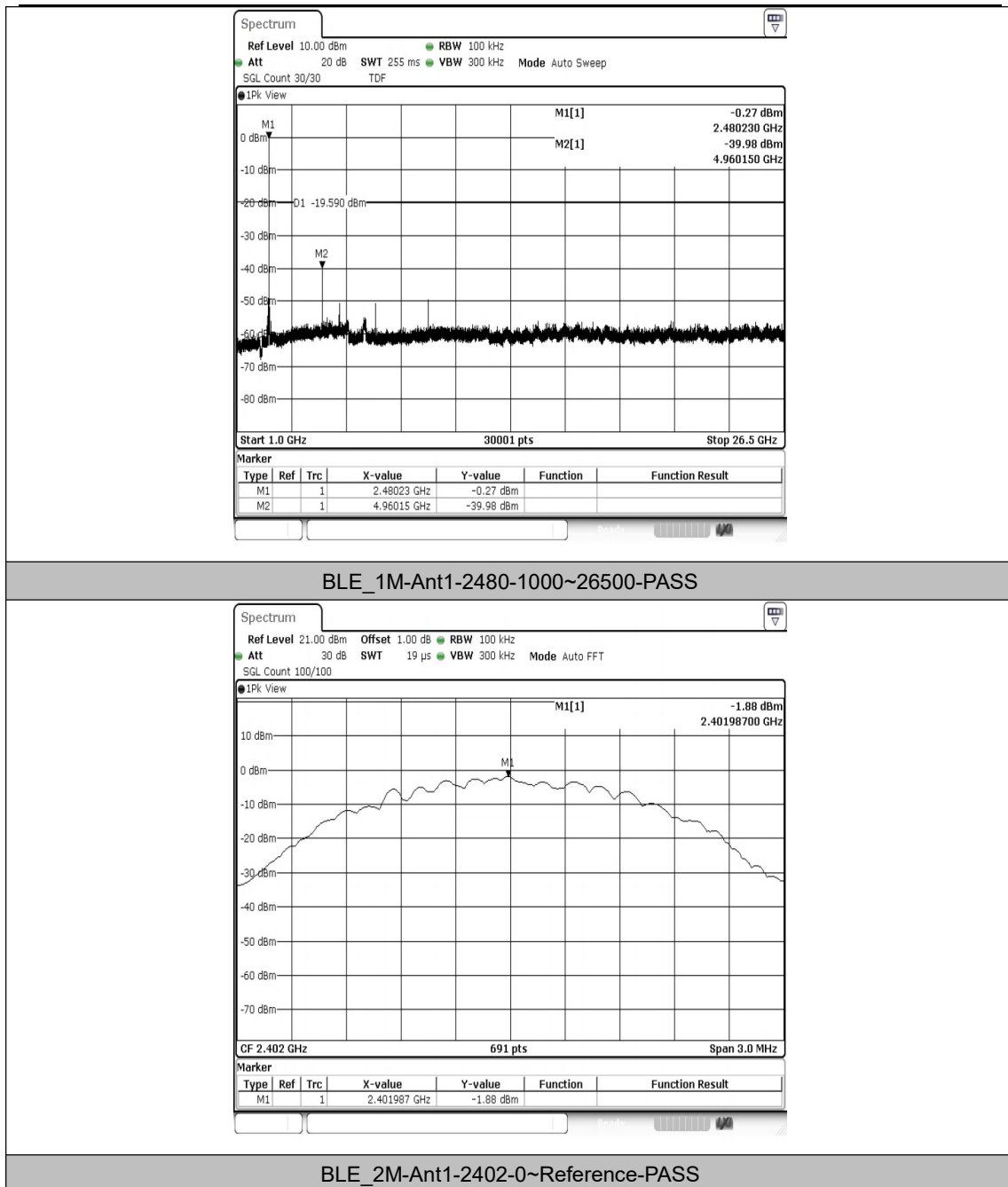
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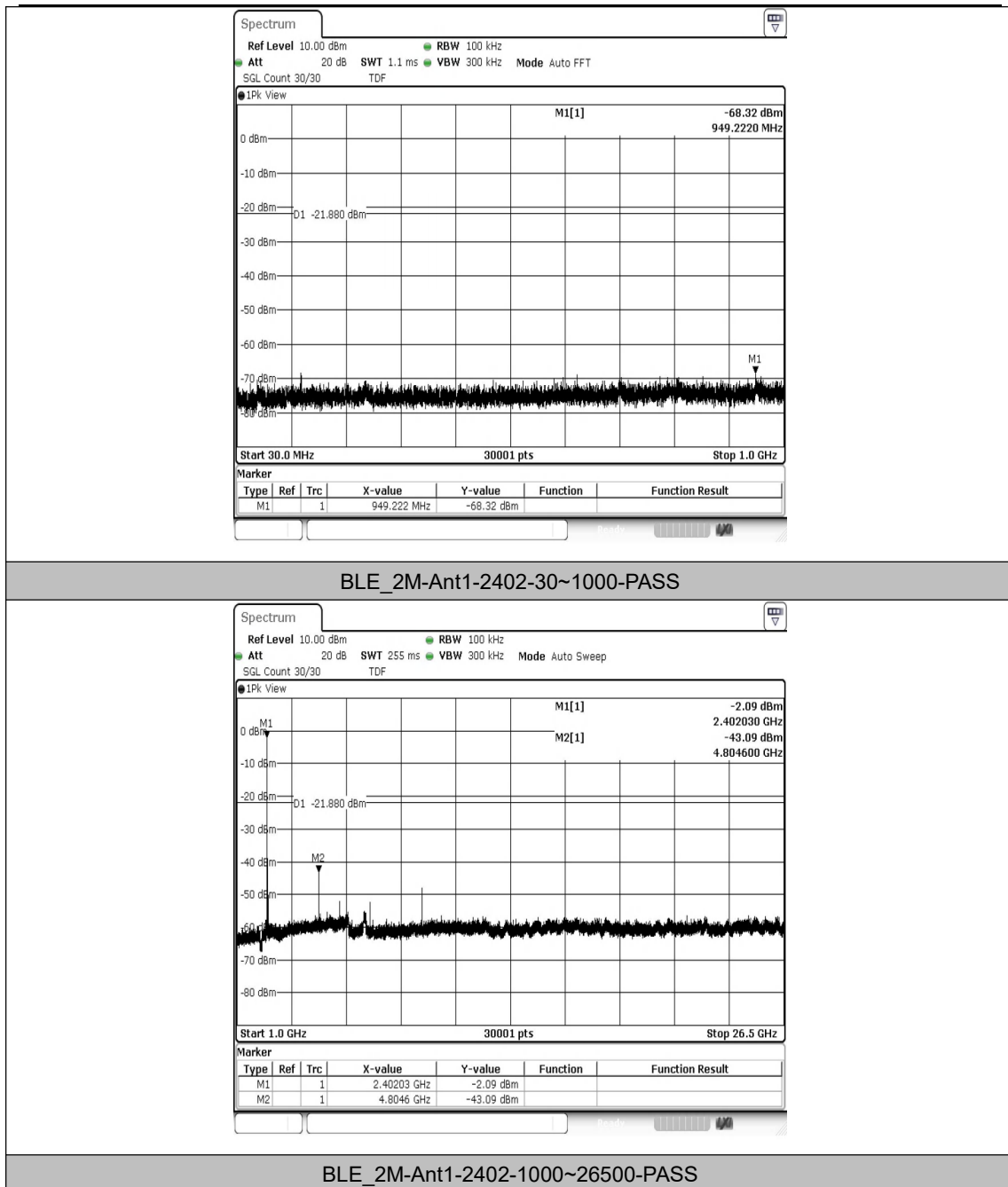
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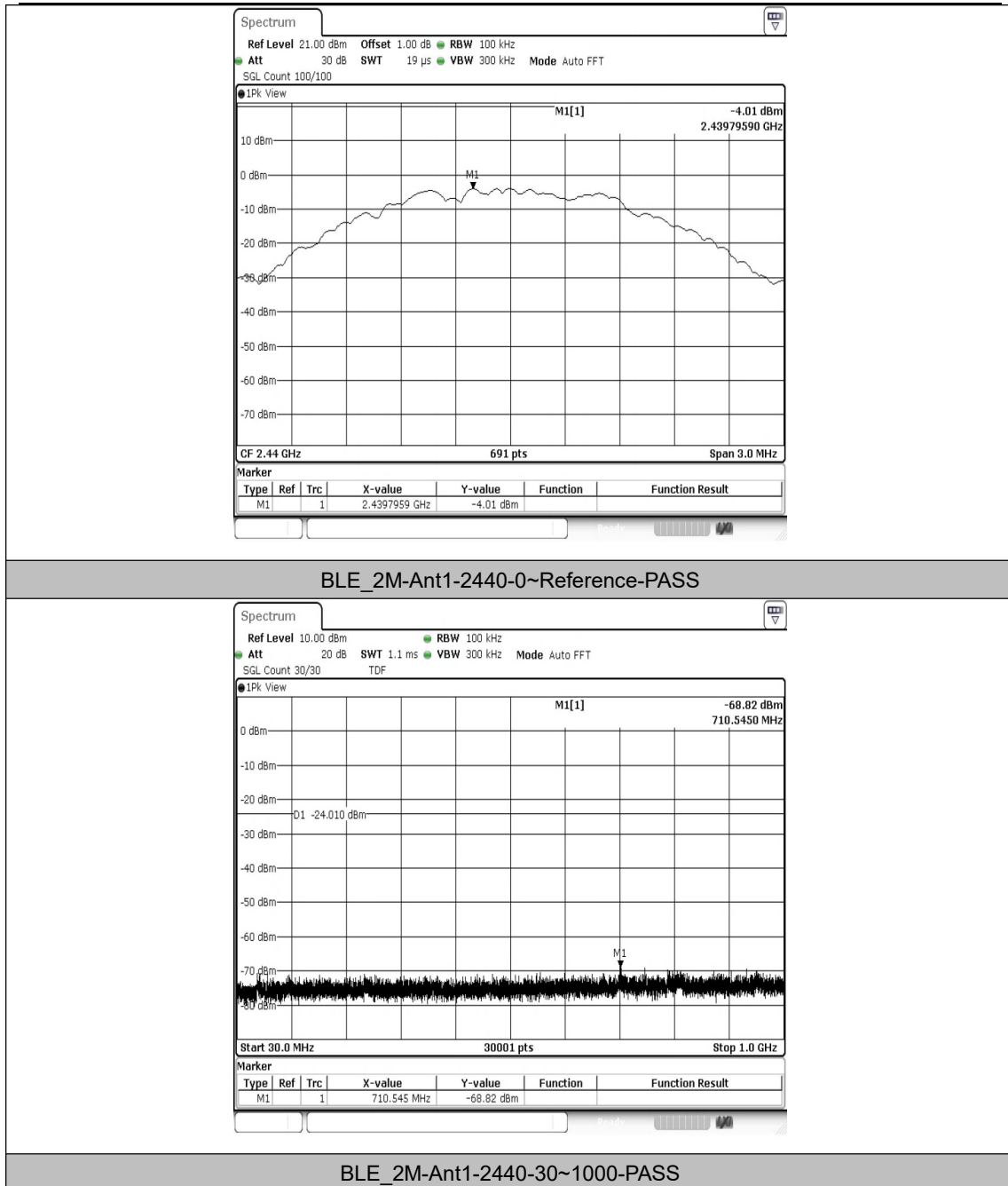
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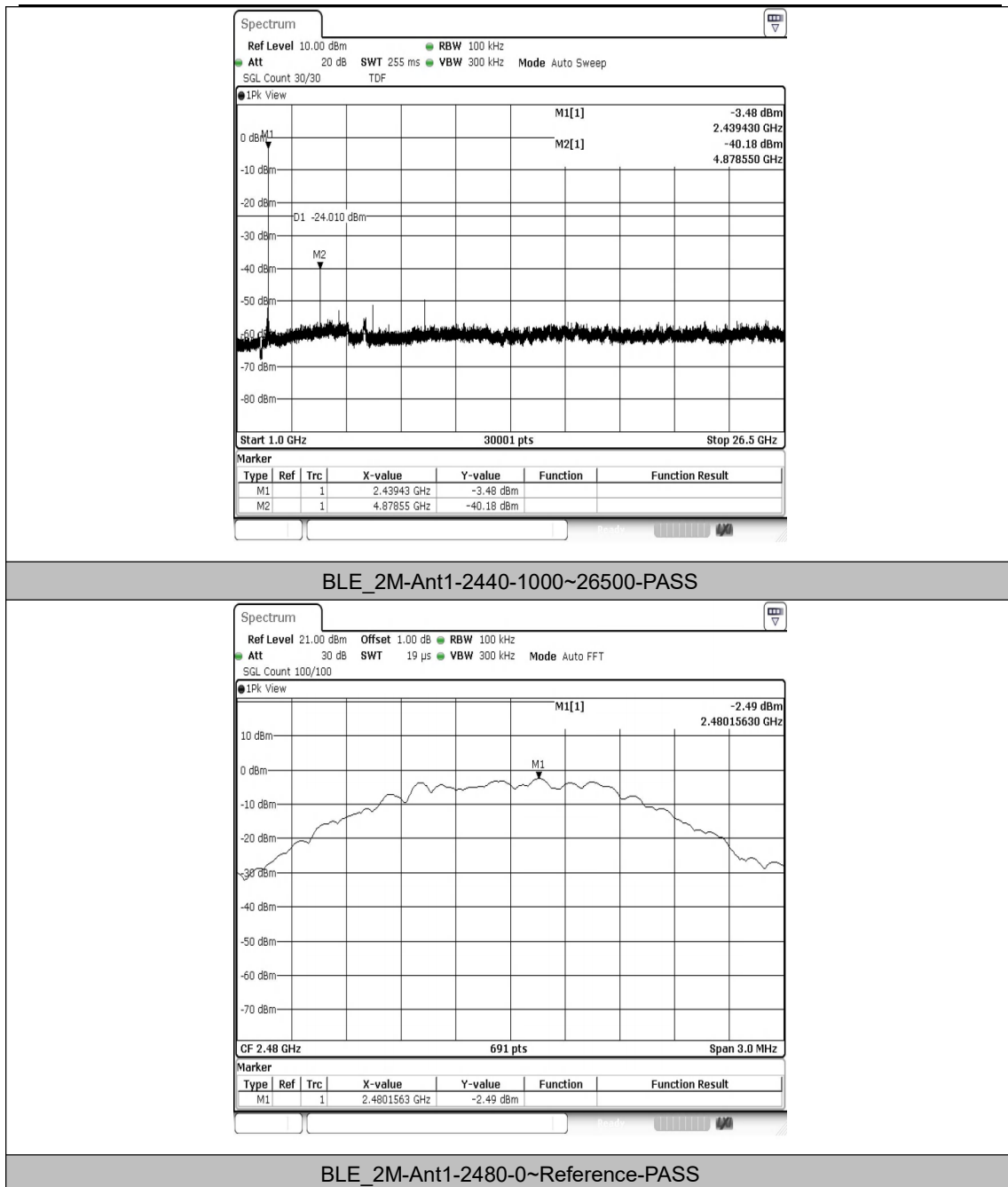
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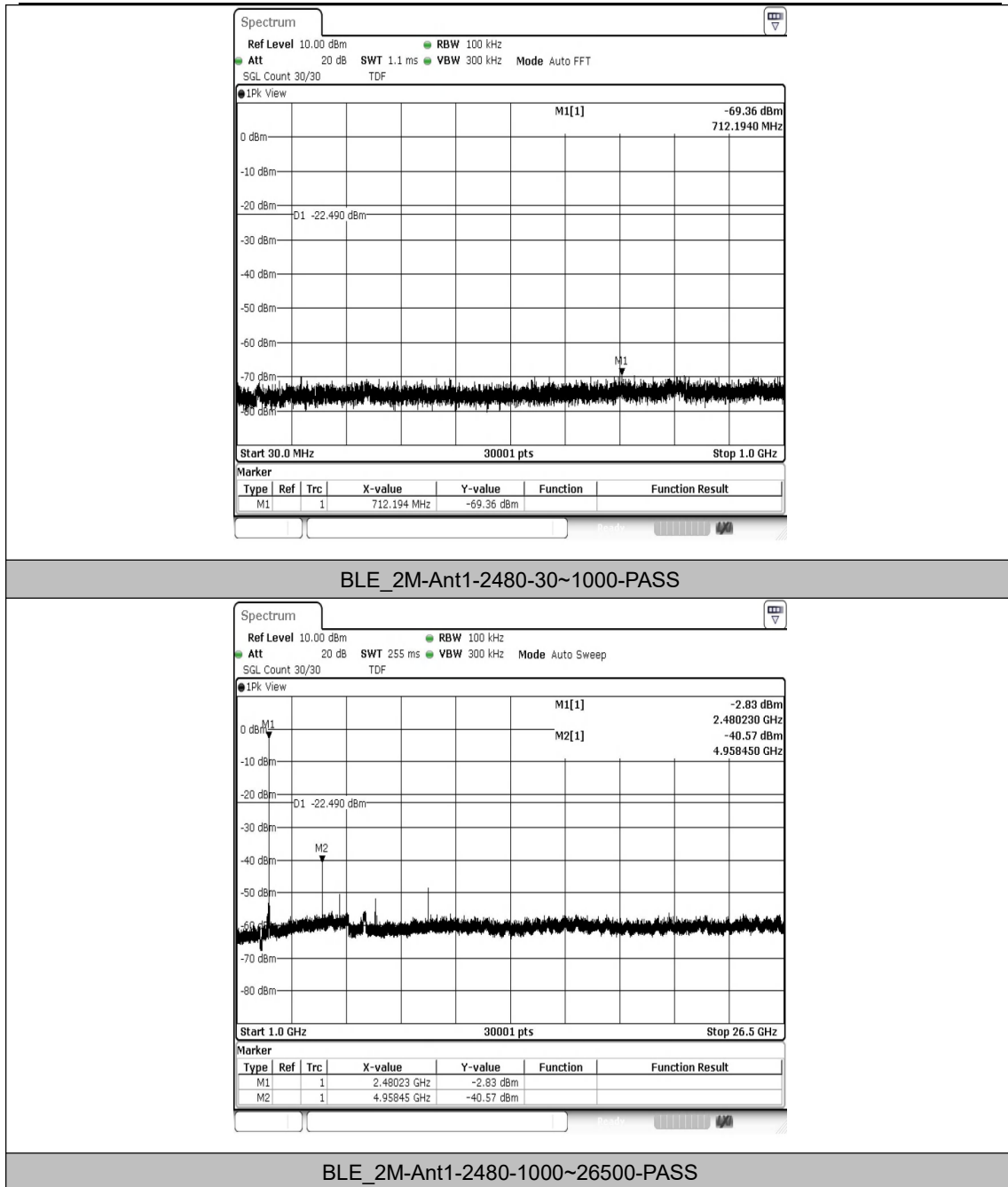
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Appendix G: Duty Cycle

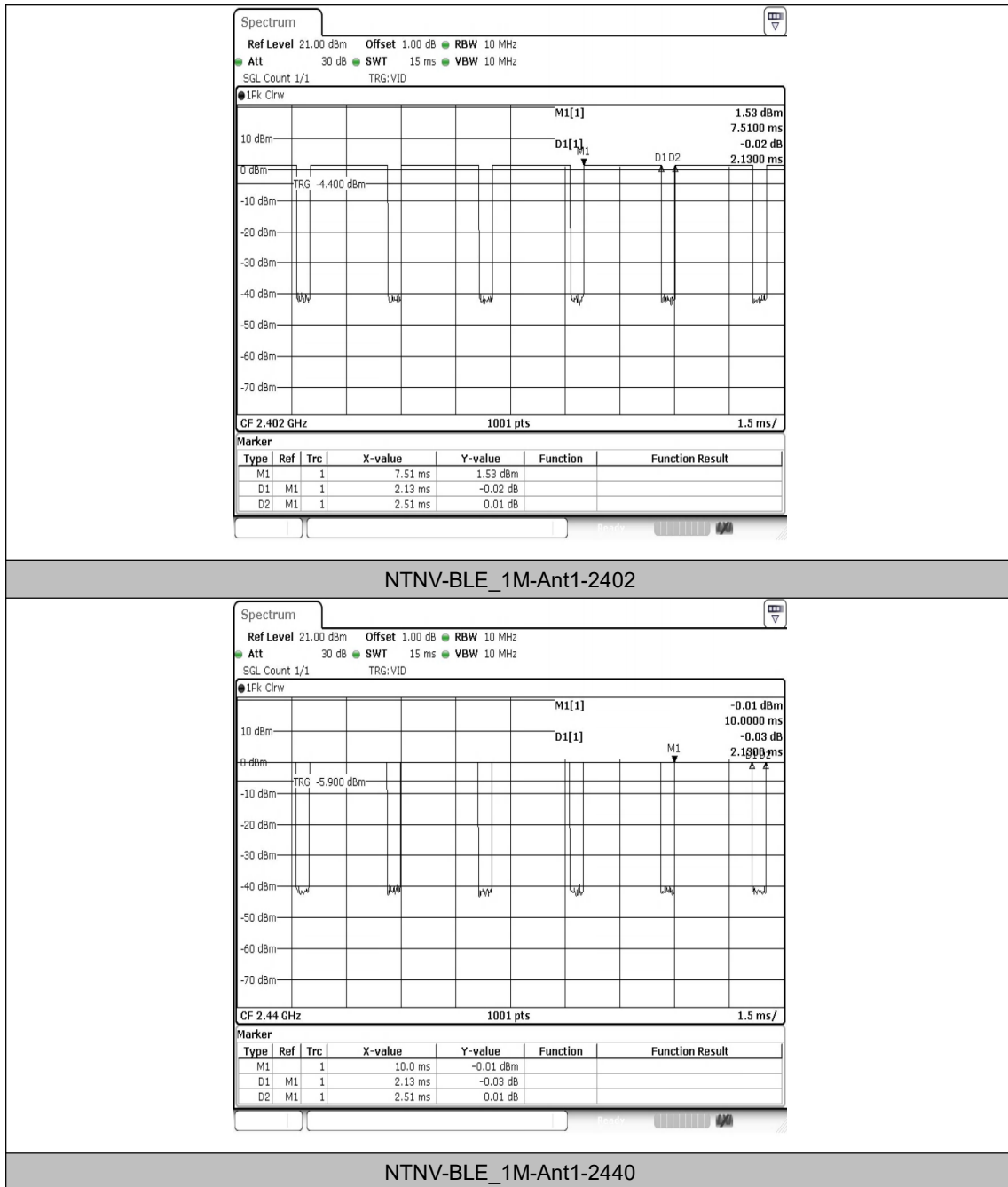
Test Result

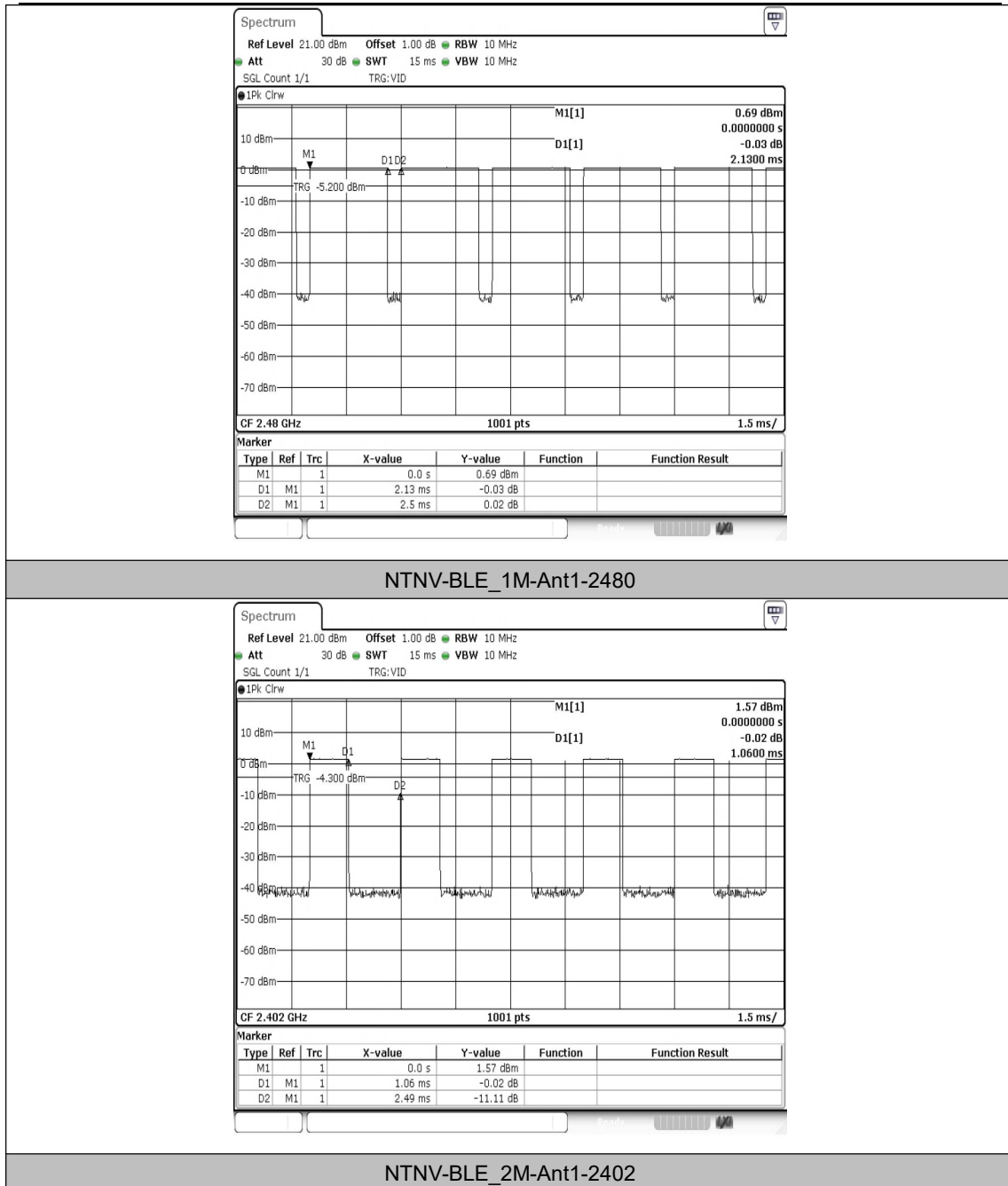
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	2.51	84.86	0.71
BLE_1M	Ant1	2440	2.13	2.51	84.86	0.71
BLE_1M	Ant1	2480	2.13	2.50	85.20	0.70
BLE_2M	Ant1	2402	1.06	2.49	42.57	3.71
BLE_2M	Ant1	2440	1.06	2.49	42.57	3.71
BLE_2M	Ant1	2480	1.06	2.49	42.57	3.71

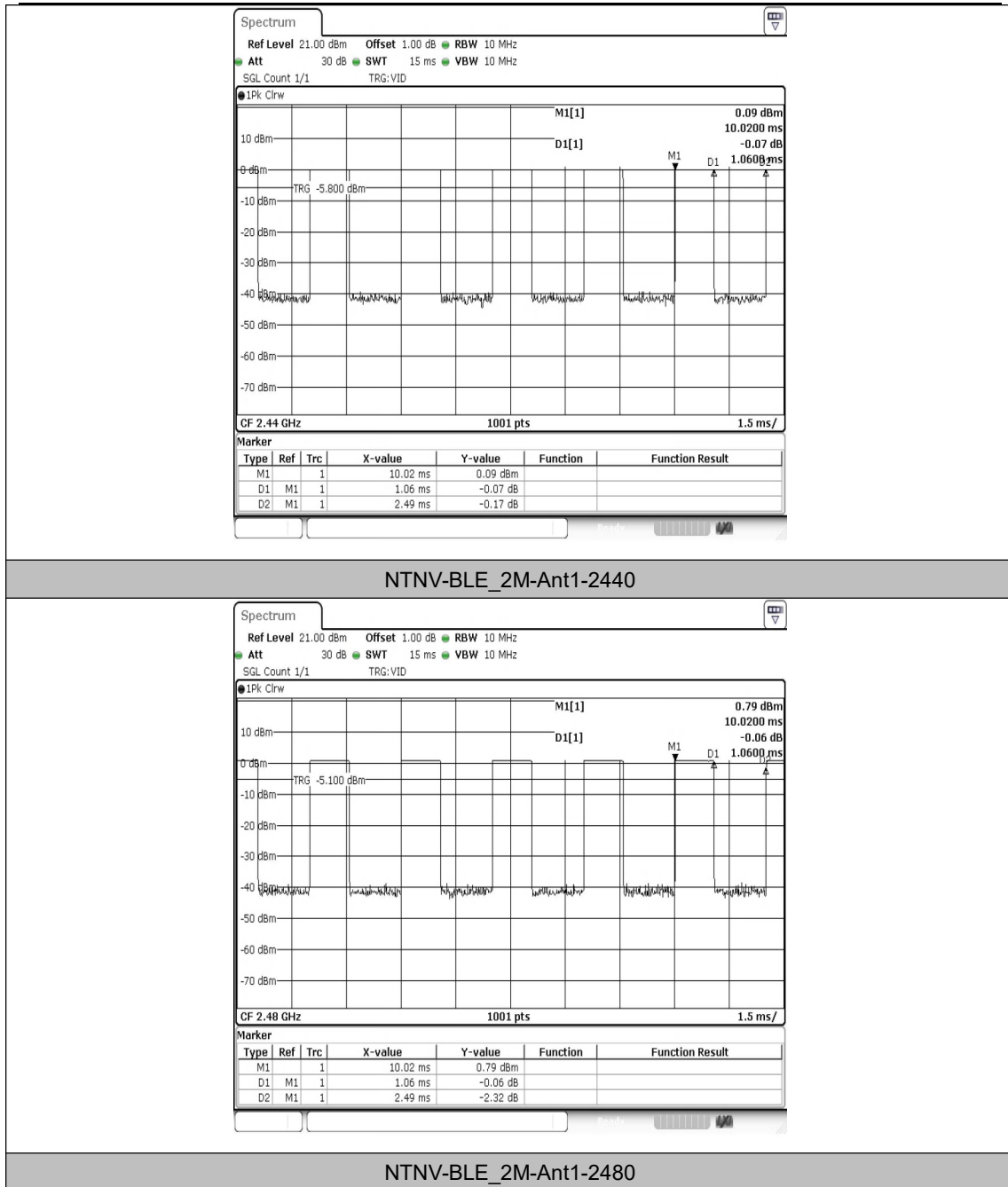
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Test Graphs







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