

Appendix Test Data

Report No.:	1812C50210612502	Test Sample No.:	1-2-2
Start Test Date:	2025-5-8	Finish Test Date:	2025-5-14
Test Engineer:	Hu Sen Guan	Auditor:	Justin Feng
Temperature:	25.1°C	Relative Humidity:	51%
Pressure:	101kPa		

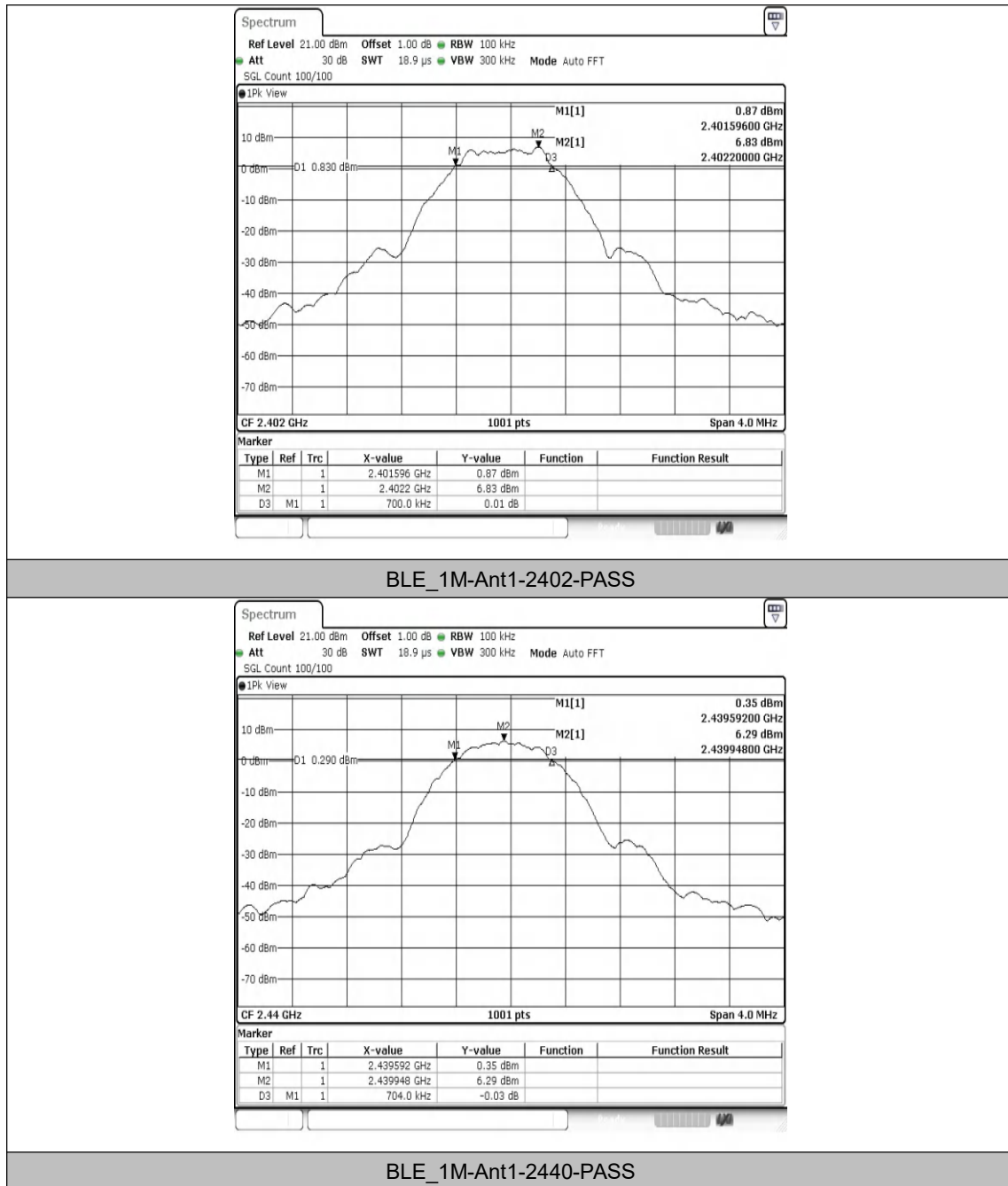
Appendix A: 6dB Bandwidth

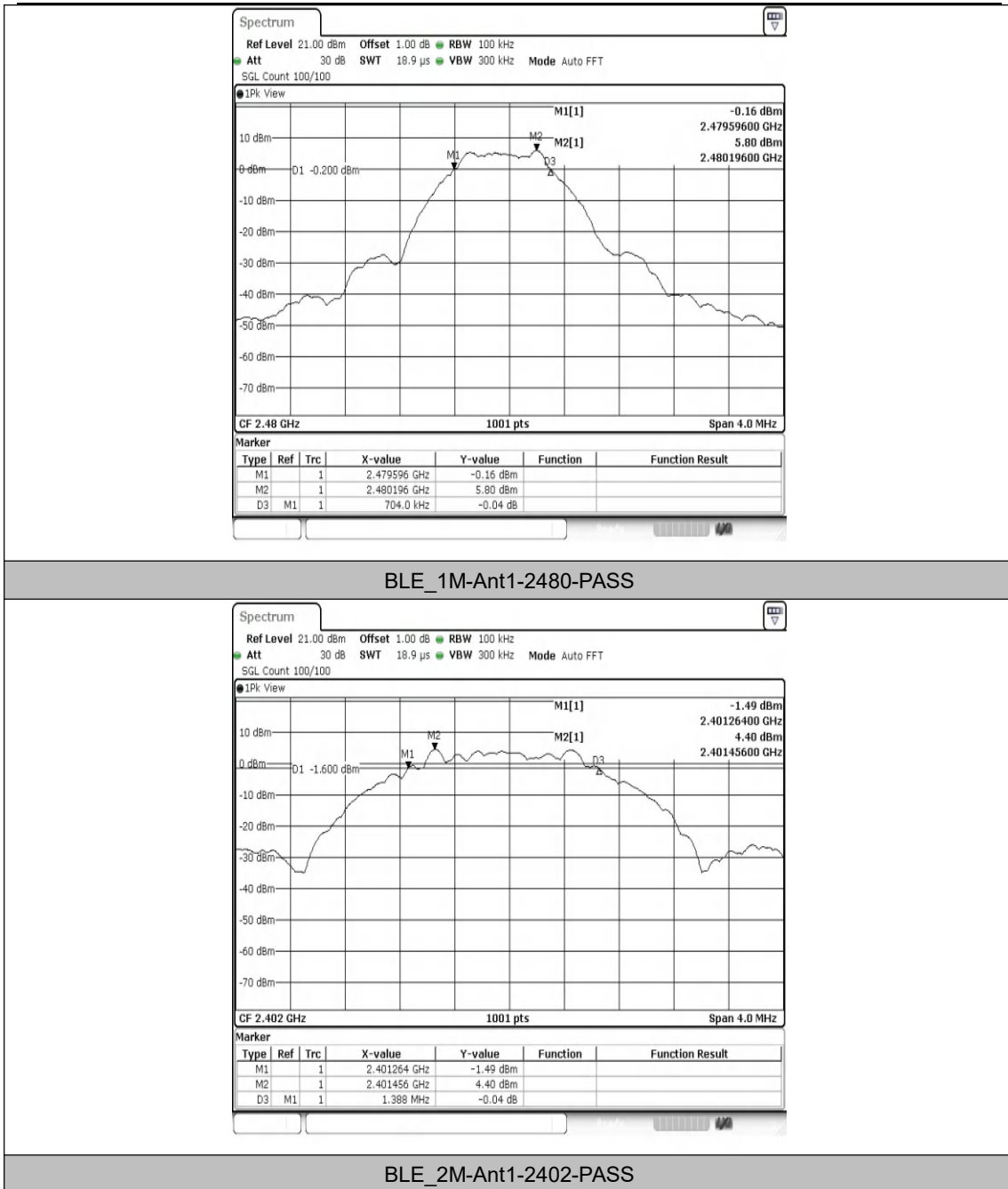
Test Result

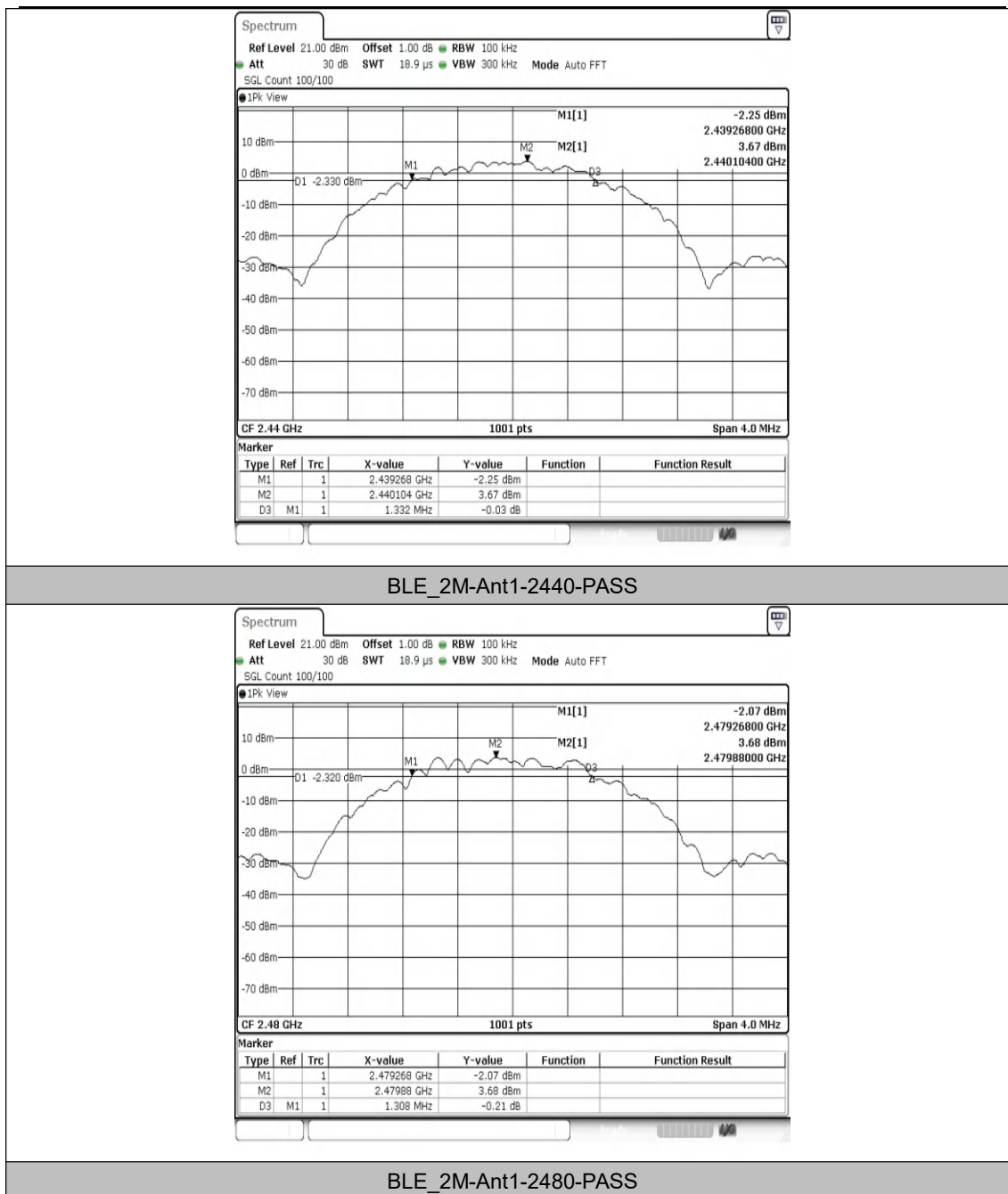
Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.70	2401.60	2402.30	0.5	PASS
BLE_1M	Ant1	2440	0.70	2439.59	2440.30	0.5	PASS
BLE_1M	Ant1	2480	0.70	2479.60	2480.30	0.5	PASS
BLE_2M	Ant1	2402	1.39	2401.26	2402.65	0.5	PASS
BLE_2M	Ant1	2440	1.33	2439.27	2440.60	0.5	PASS
BLE_2M	Ant1	2480	1.31	2479.27	2480.58	0.5	PASS



Test Graphs







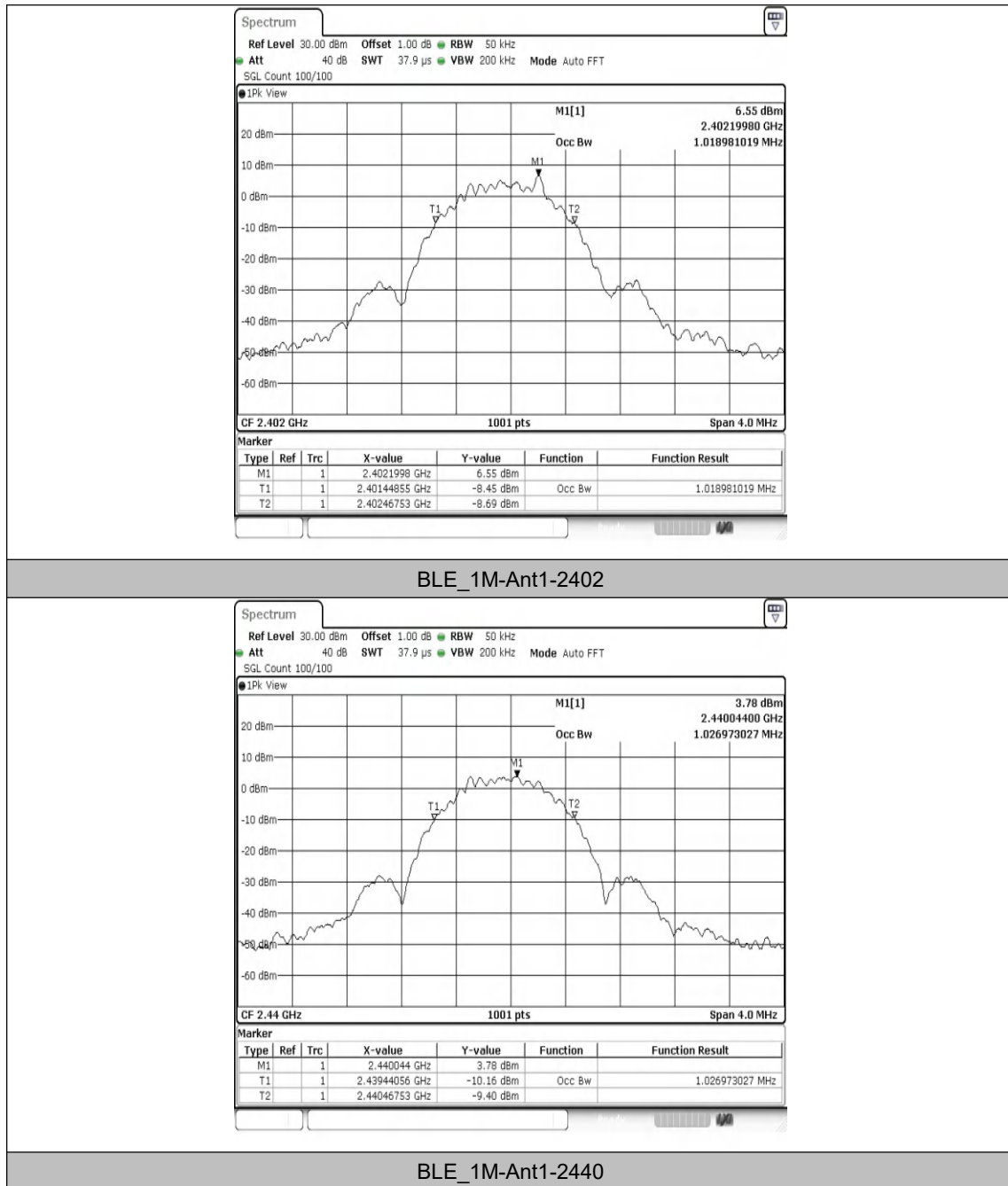
Appendix B: 99% Occupied Bandwidth

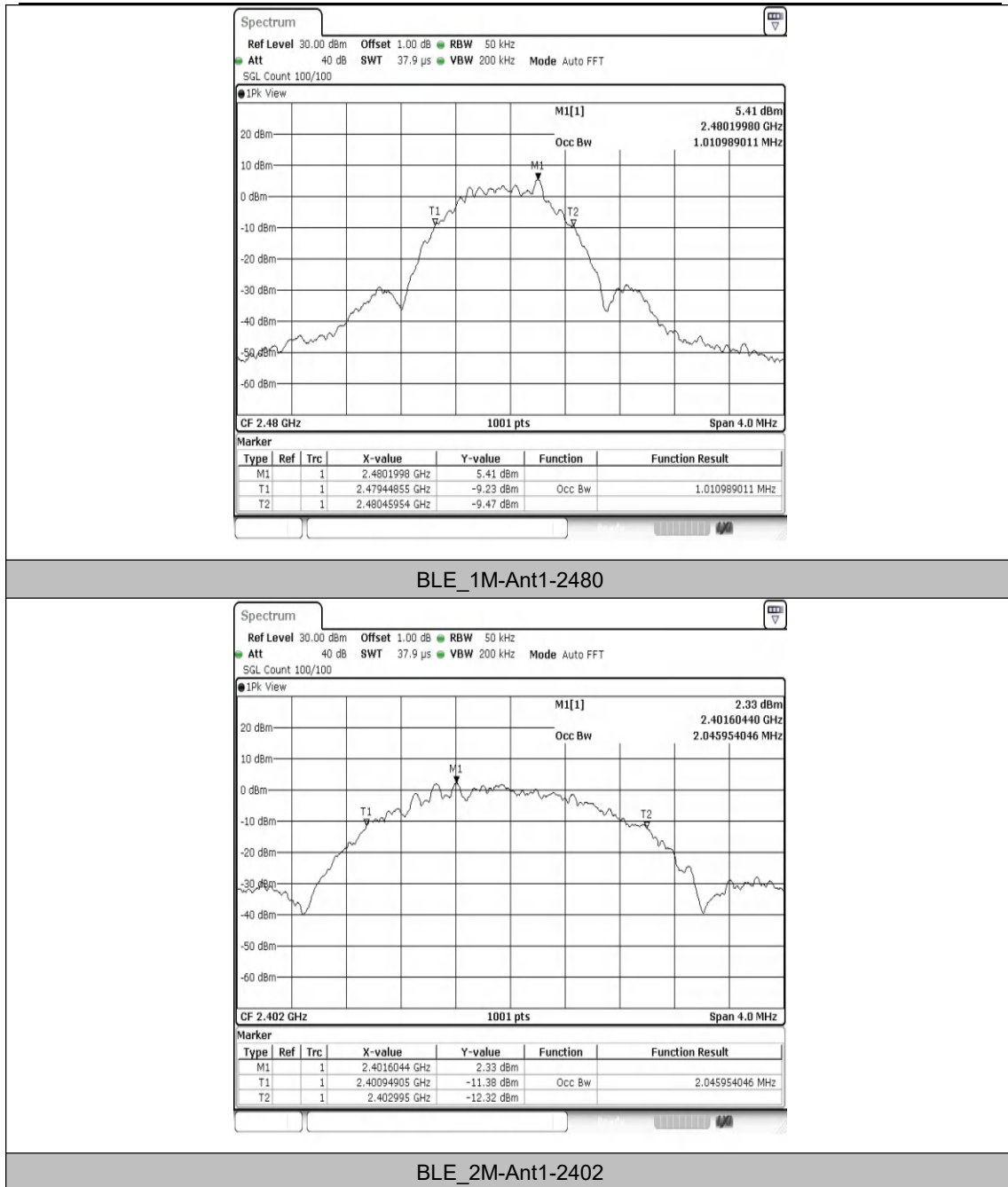
Test Result

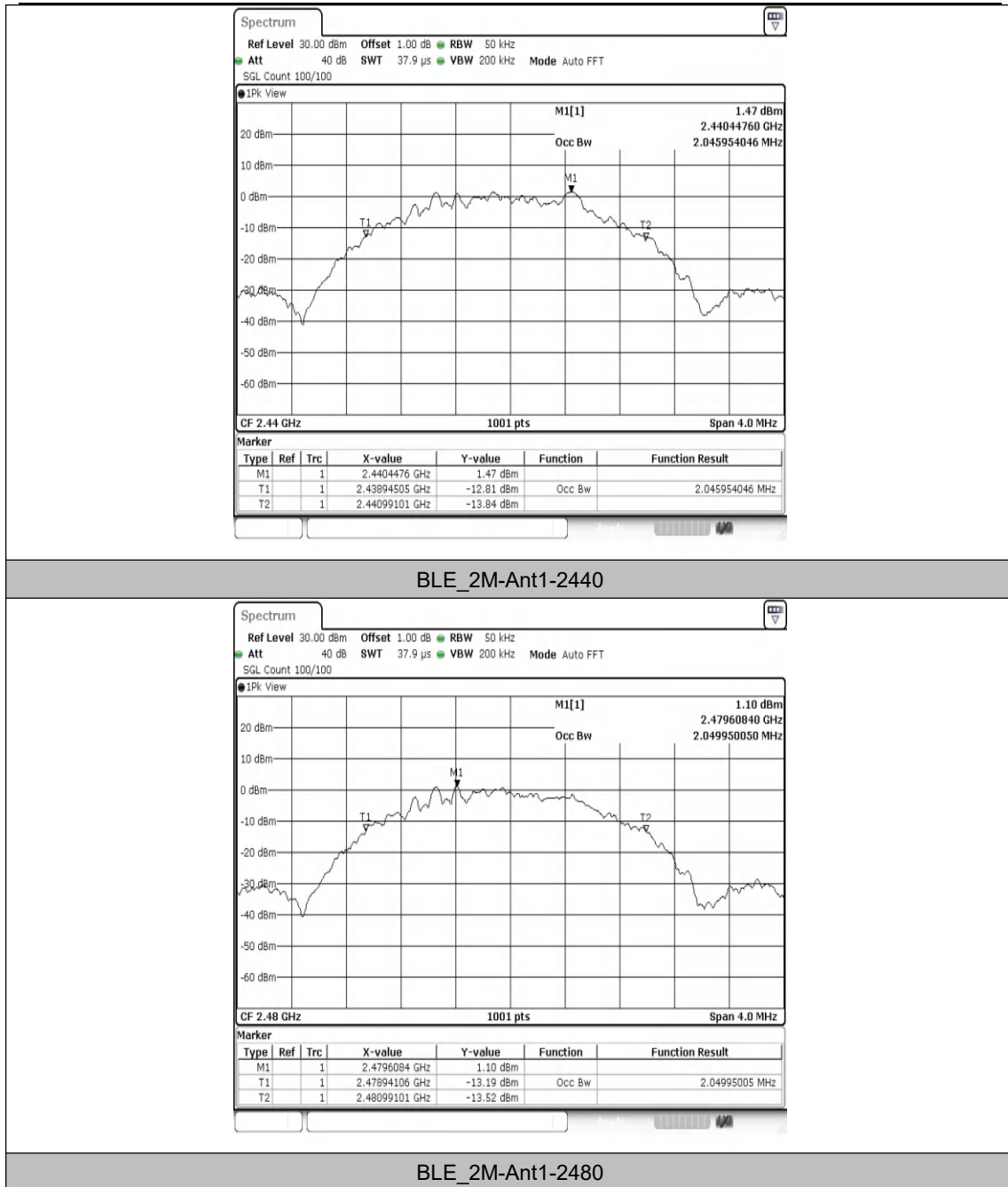
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0190	2401.4486	2402.4675	---	---
BLE_1M	Ant1	2440	1.0270	2439.4406	2440.4675	---	---
BLE_1M	Ant1	2480	1.0110	2479.4486	2480.4595	---	---
BLE_2M	Ant1	2402	2.0460	2400.9491	2402.9950	---	---
BLE_2M	Ant1	2440	2.0460	2438.9451	2440.9910	---	---
BLE_2M	Ant1	2480	2.0500	2478.9411	2480.9910	---	---

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Test Graphs





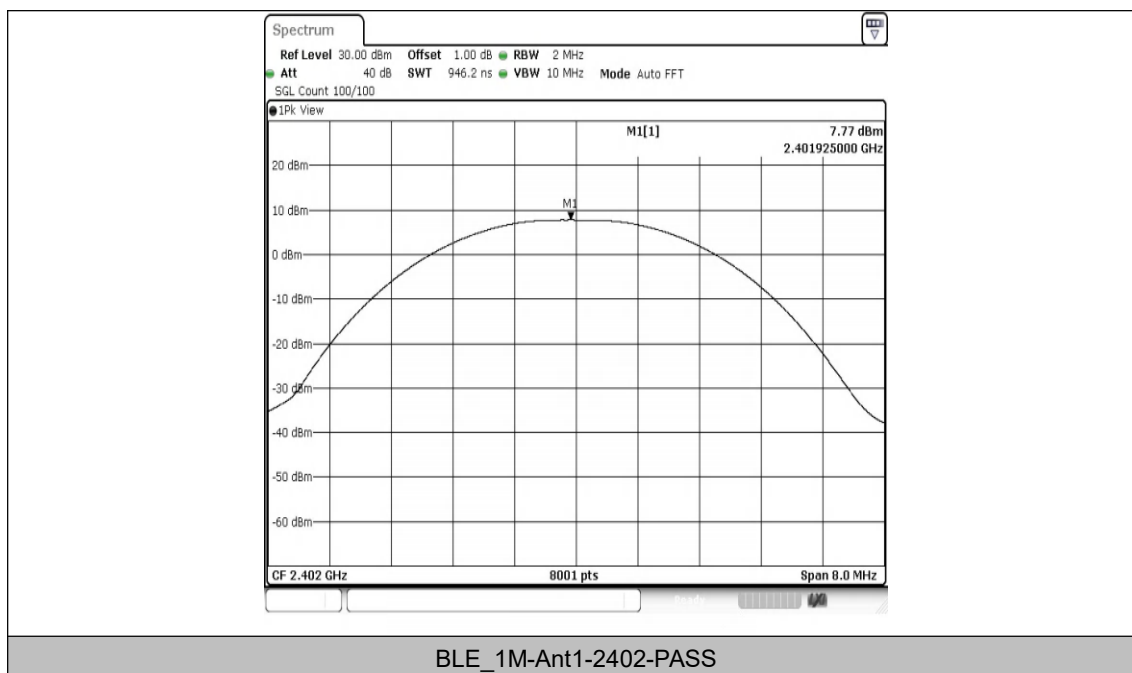


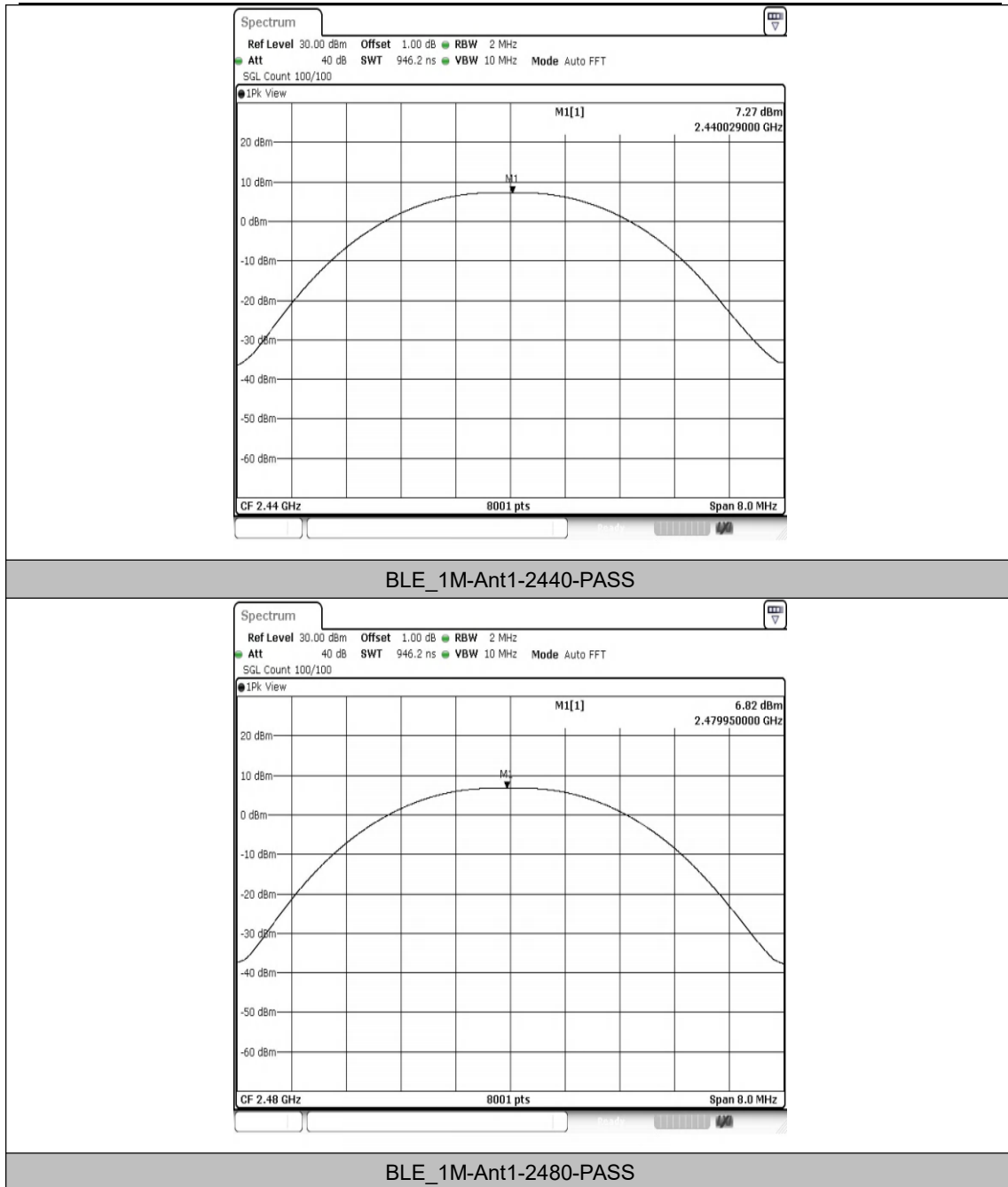
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	7.77	≤30	PASS
BLE_1M	Ant1	2440	7.27	≤30	PASS
BLE_1M	Ant1	2480	6.82	≤30	PASS
BLE_2M	Ant1	2402	7.83	≤30	PASS
BLE_2M	Ant1	2440	7.32	≤30	PASS
BLE_2M	Ant1	2480	6.83	≤30	PASS

Test Graphs Peak





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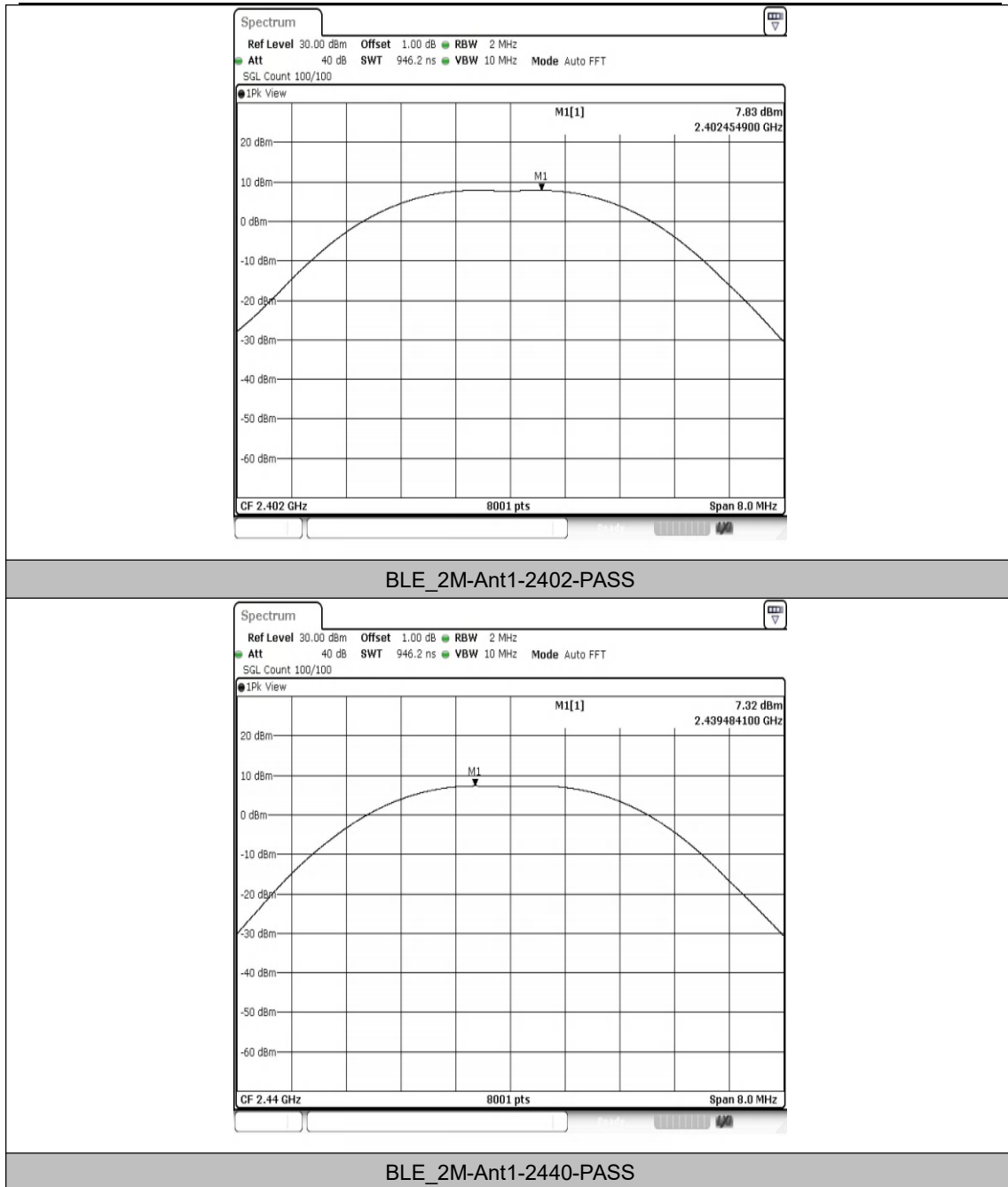
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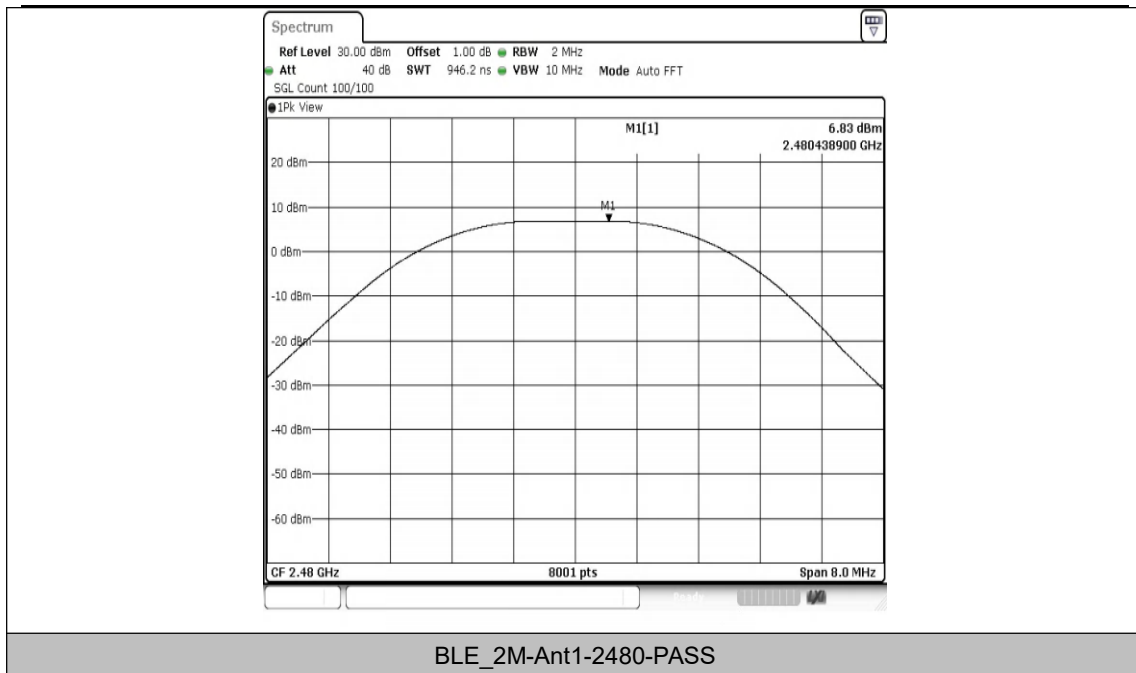
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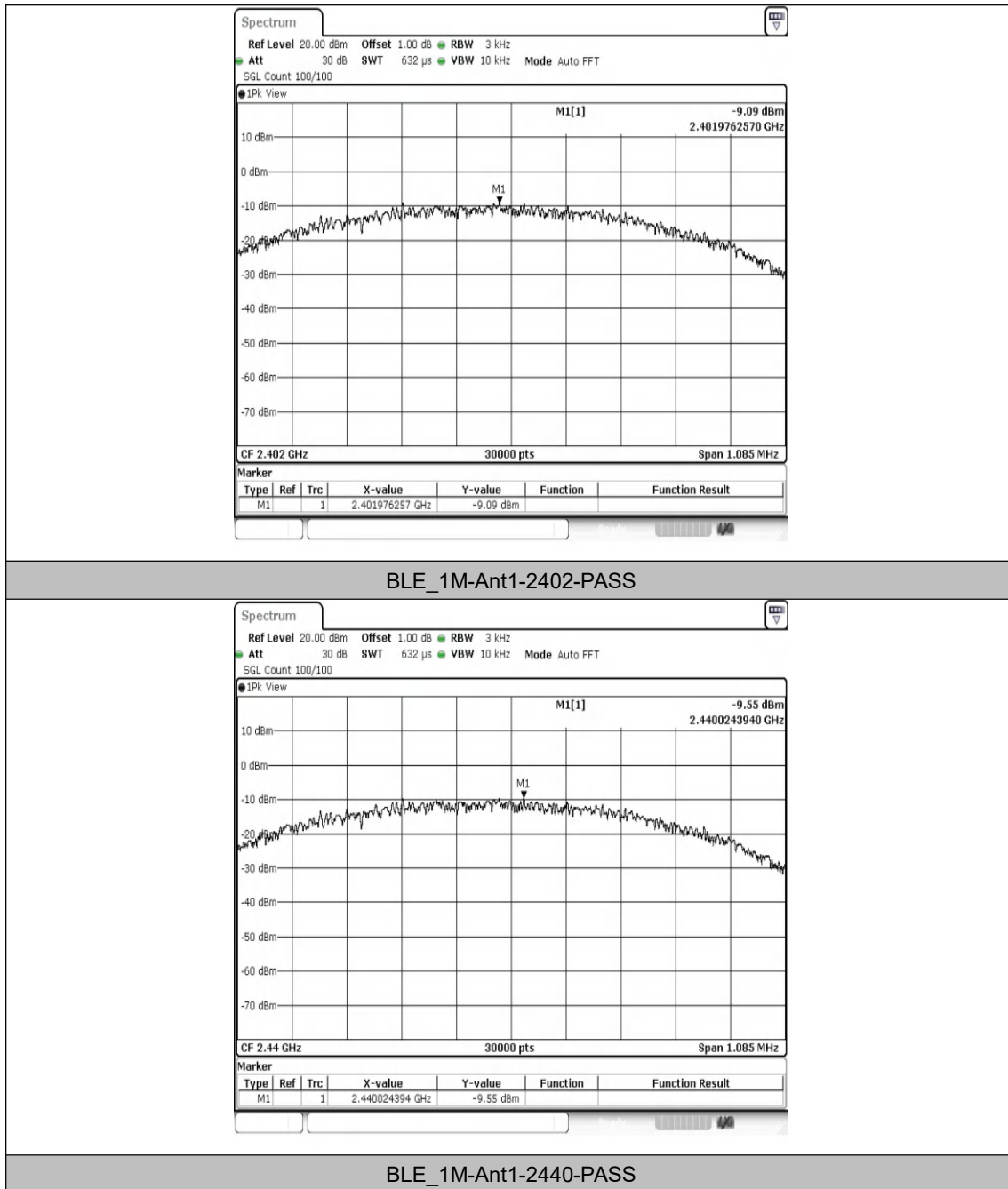
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-9.09	≤8.00	PASS
BLE_1M	Ant1	2440	-9.55	≤8.00	PASS
BLE_1M	Ant1	2480	-9.98	≤8.00	PASS
BLE_2M	Ant1	2402	-12.14	≤8.00	PASS
BLE_2M	Ant1	2440	-12.24	≤8.00	PASS
BLE_2M	Ant1	2480	-12.81	≤8.00	PASS

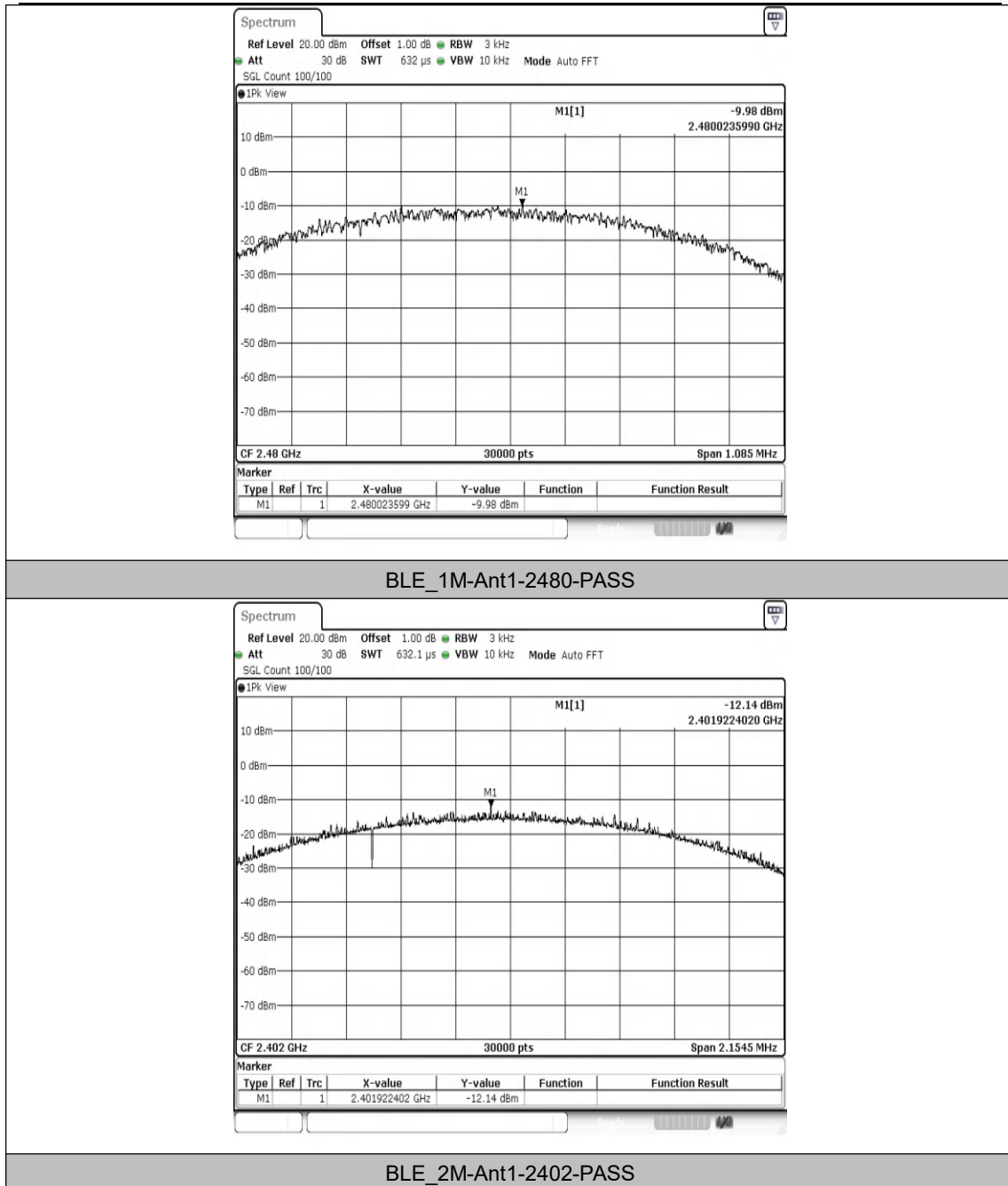
Test Graphs



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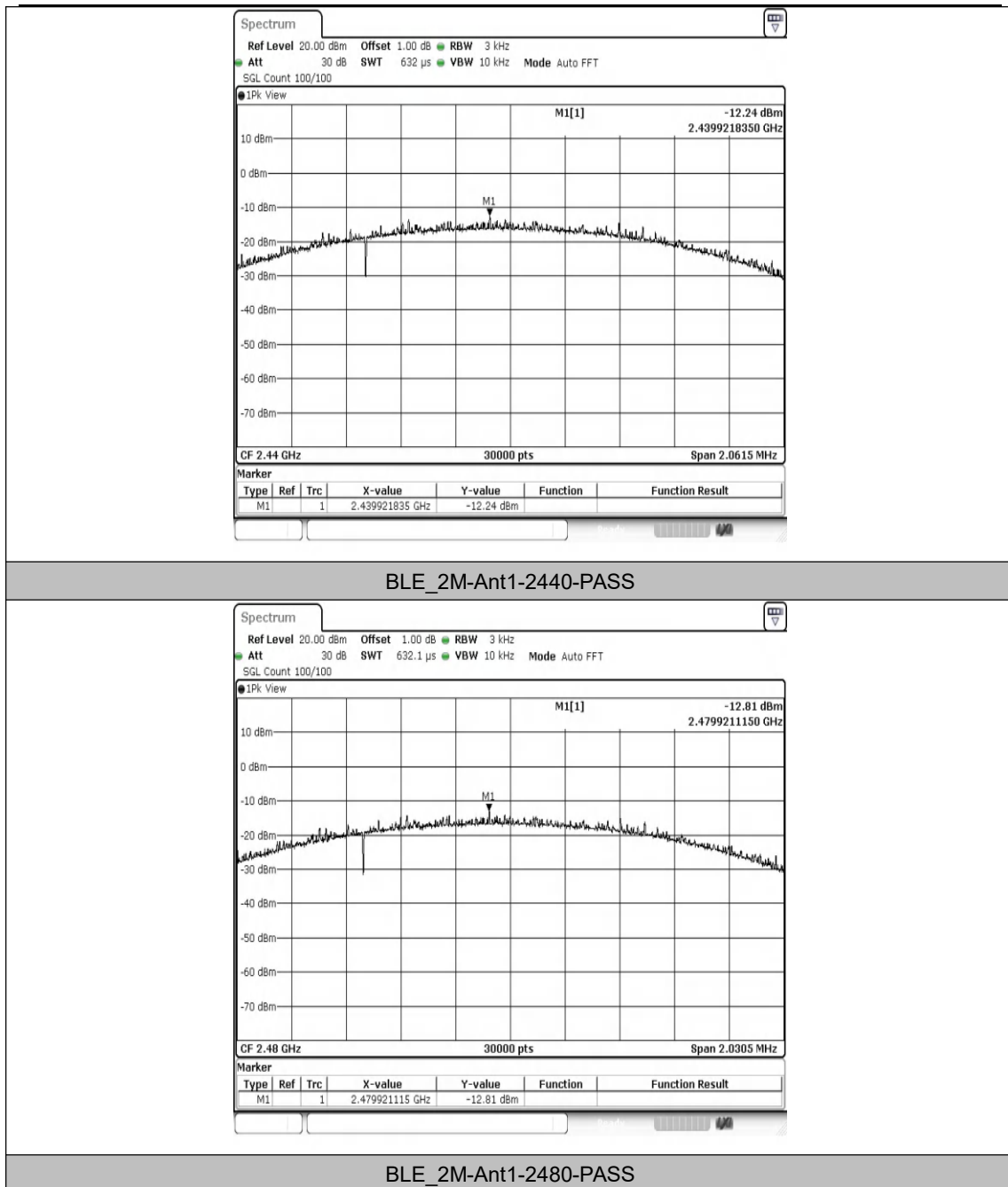
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Appendix E: Band edge measurements

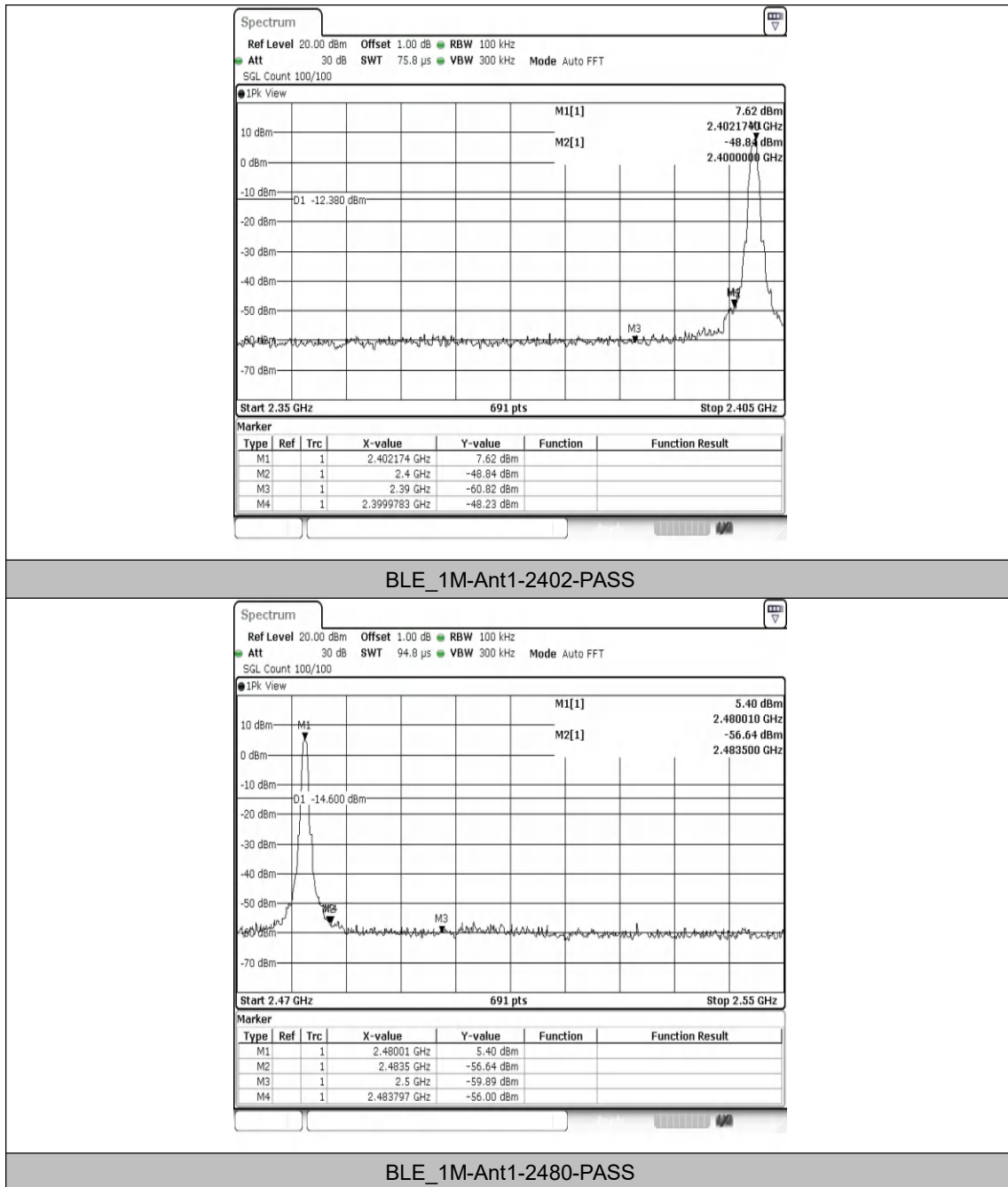
Test Result

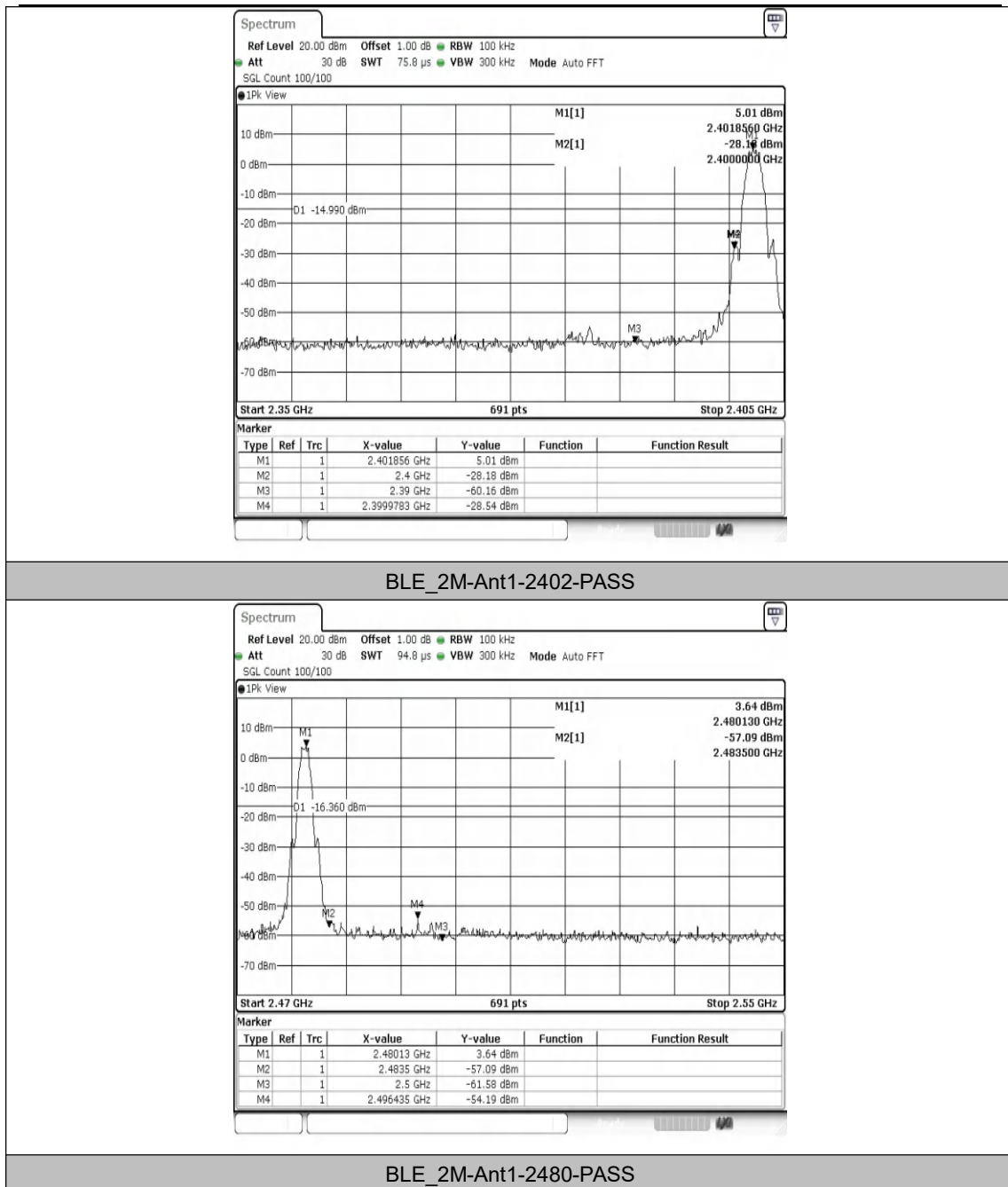
Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	7.62	-48.23	≤ -12.38	PASS
BLE_1M	Ant1	High	2480	5.40	-56	≤ -14.6	PASS
BLE_2M	Ant1	Low	2402	5.01	-28.54	≤ -14.99	PASS
BLE_2M	Ant1	High	2480	3.64	-54.19	≤ -16.36	PASS

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





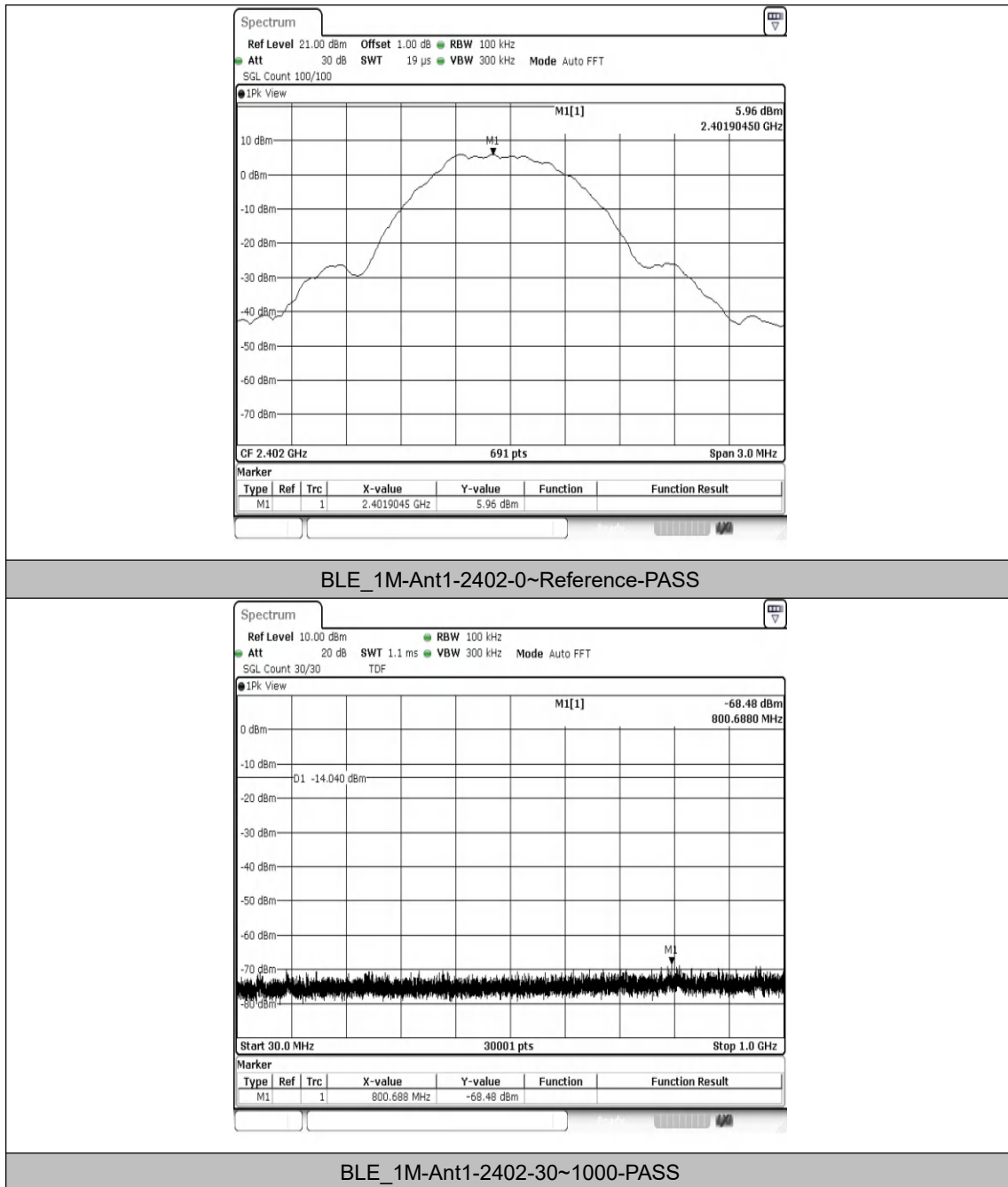
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	5.96	5.96	---	PASS
BLE_1M	Ant1	2402	30~1000	5.96	-68.48	≤-14.04	PASS
BLE_1M	Ant1	2402	1000~26500	5.96	-38.4	≤-14.04	PASS
BLE_1M	Ant1	2440	0~Reference	6.02	6.02	---	PASS
BLE_1M	Ant1	2440	30~1000	6.02	-68.2	≤-13.98	PASS
BLE_1M	Ant1	2440	1000~26500	6.02	-42.05	≤-13.98	PASS
BLE_1M	Ant1	2480	0~Reference	5.18	5.18	---	PASS
BLE_1M	Ant1	2480	30~1000	5.18	-68.46	≤-14.82	PASS
BLE_1M	Ant1	2480	1000~26500	5.18	-44.36	≤-14.82	PASS
BLE_2M	Ant1	2402	0~Reference	4.37	4.37	---	PASS
BLE_2M	Ant1	2402	30~1000	4.37	-68.77	≤-15.63	PASS
BLE_2M	Ant1	2402	1000~26500	4.37	-40.06	≤-15.63	PASS
BLE_2M	Ant1	2440	0~Reference	3.99	3.99	---	PASS
BLE_2M	Ant1	2440	30~1000	3.99	-67.78	≤-16.01	PASS
BLE_2M	Ant1	2440	1000~26500	3.99	-42.89	≤-16.01	PASS
BLE_2M	Ant1	2480	0~Reference	3.40	3.40	---	PASS
BLE_2M	Ant1	2480	30~1000	3.40	-68.96	≤-16.6	PASS
BLE_2M	Ant1	2480	1000~26500	3.40	-45.64	≤-16.6	PASS

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

Test Graphs



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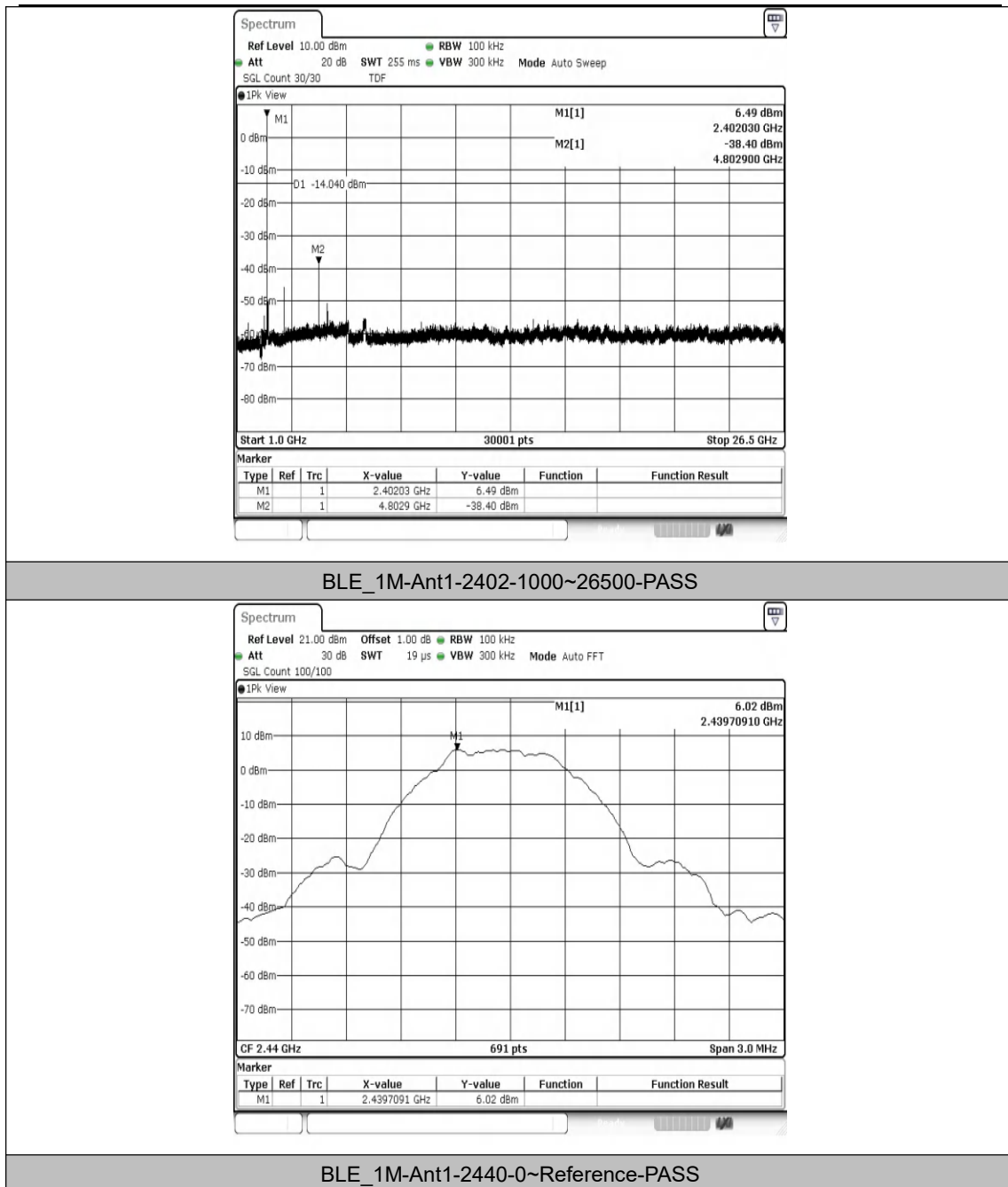
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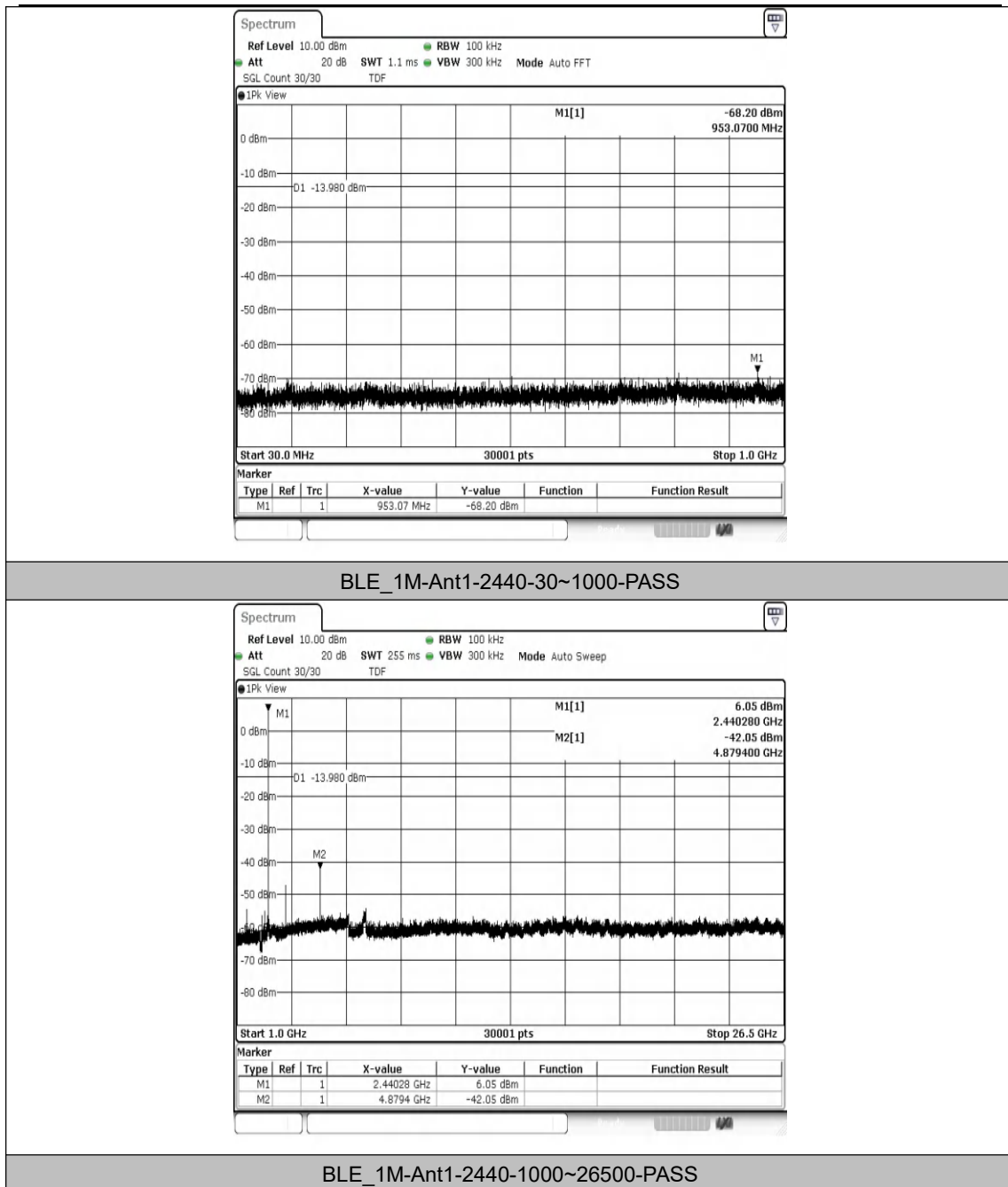
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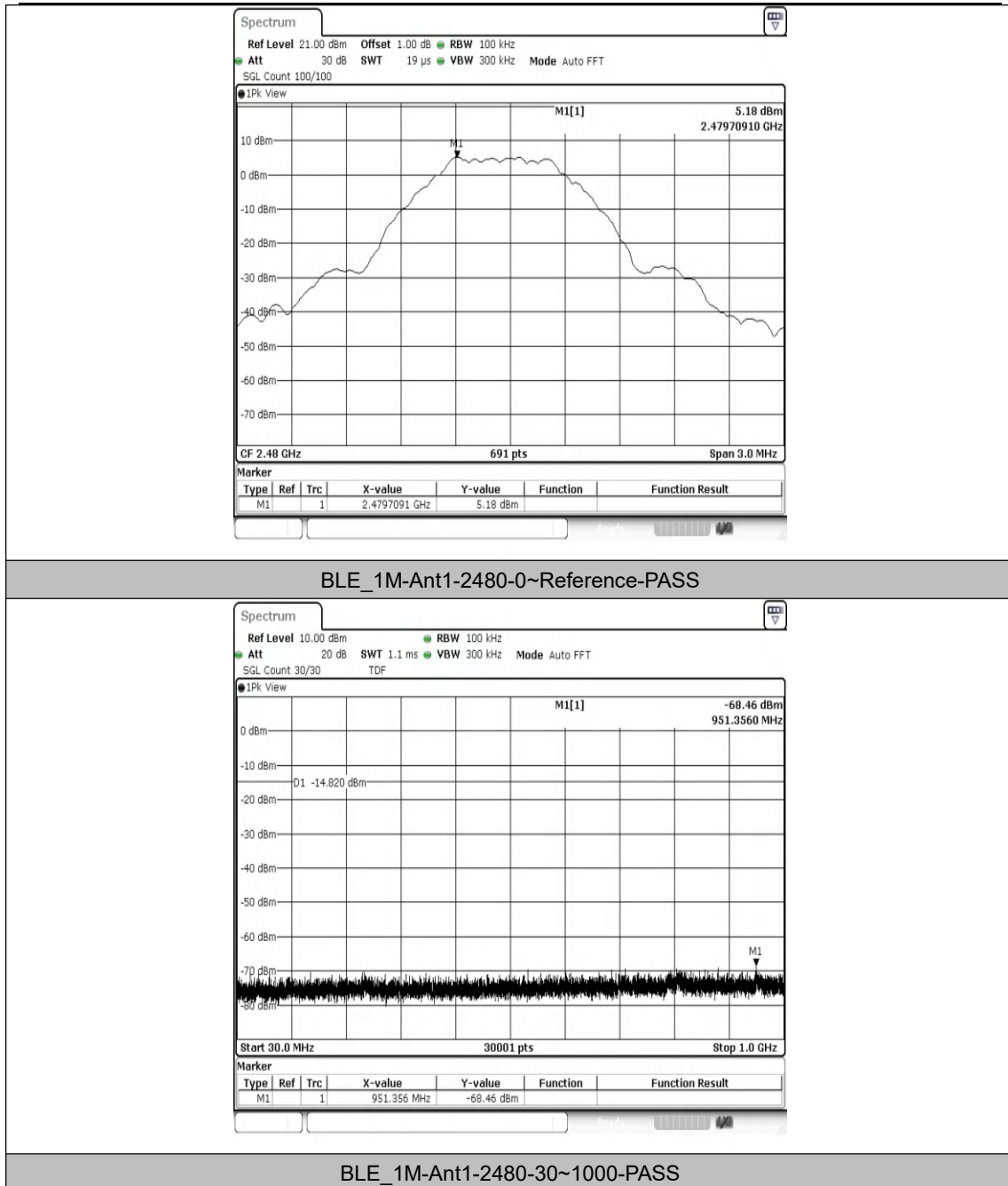
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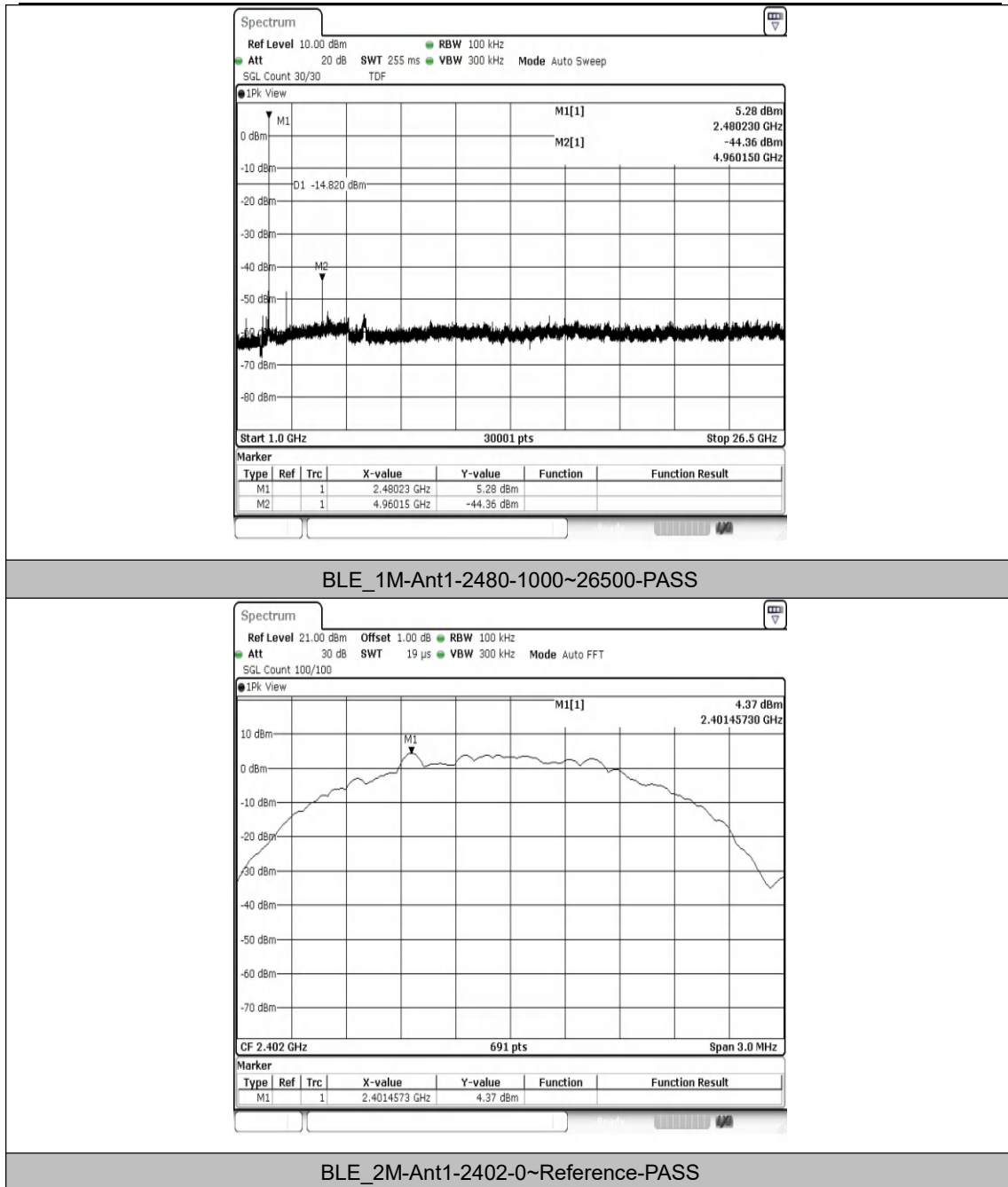
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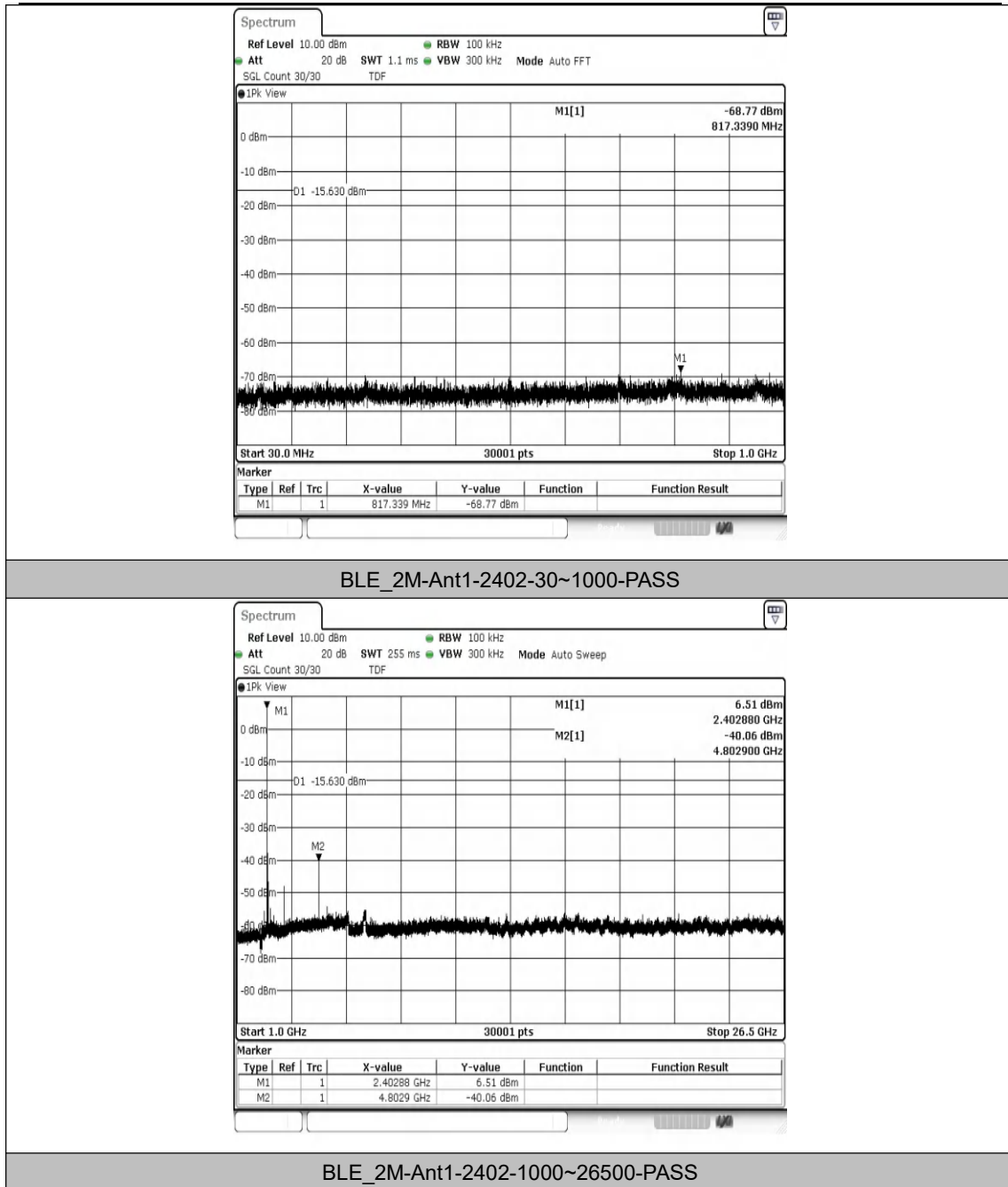
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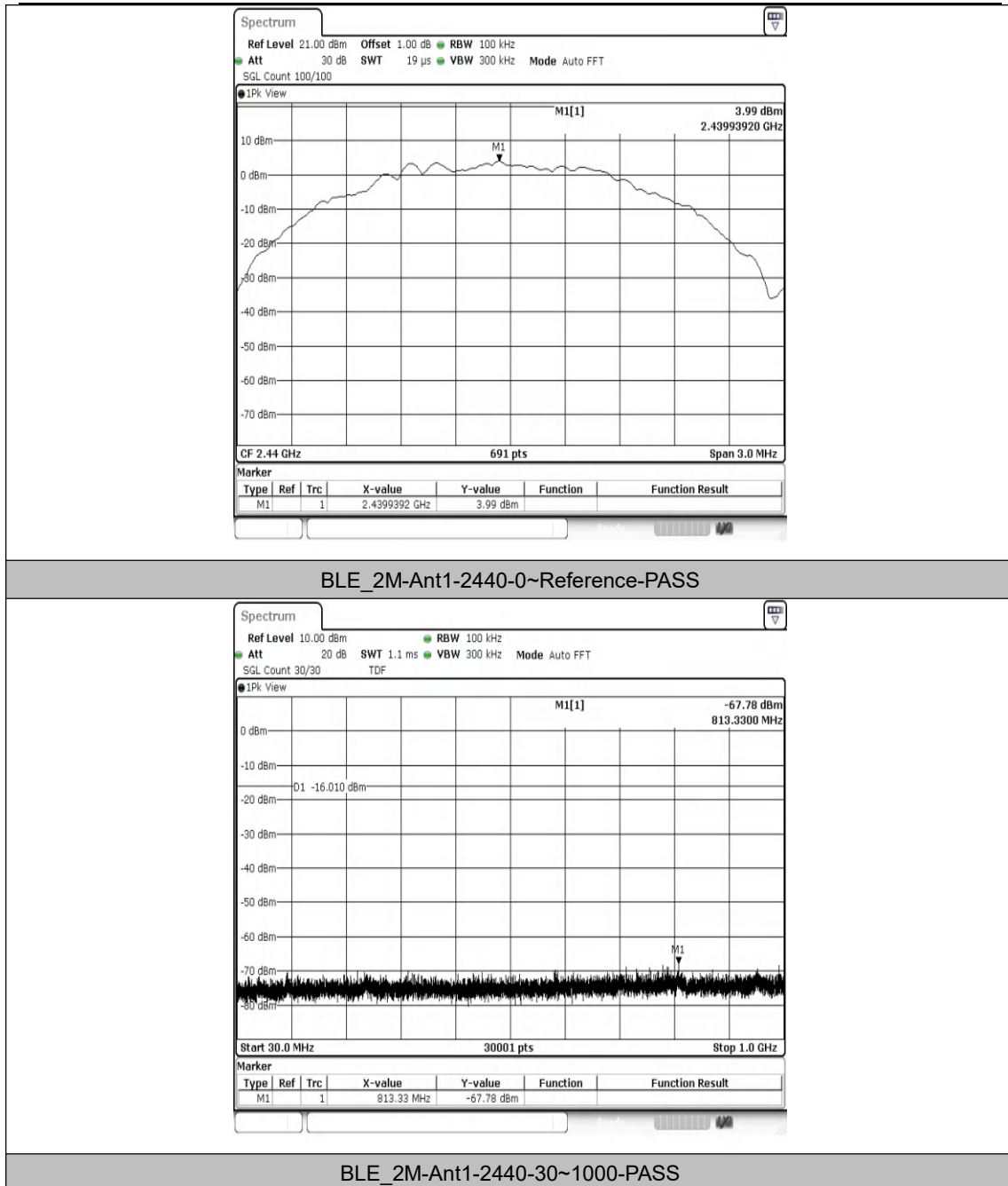
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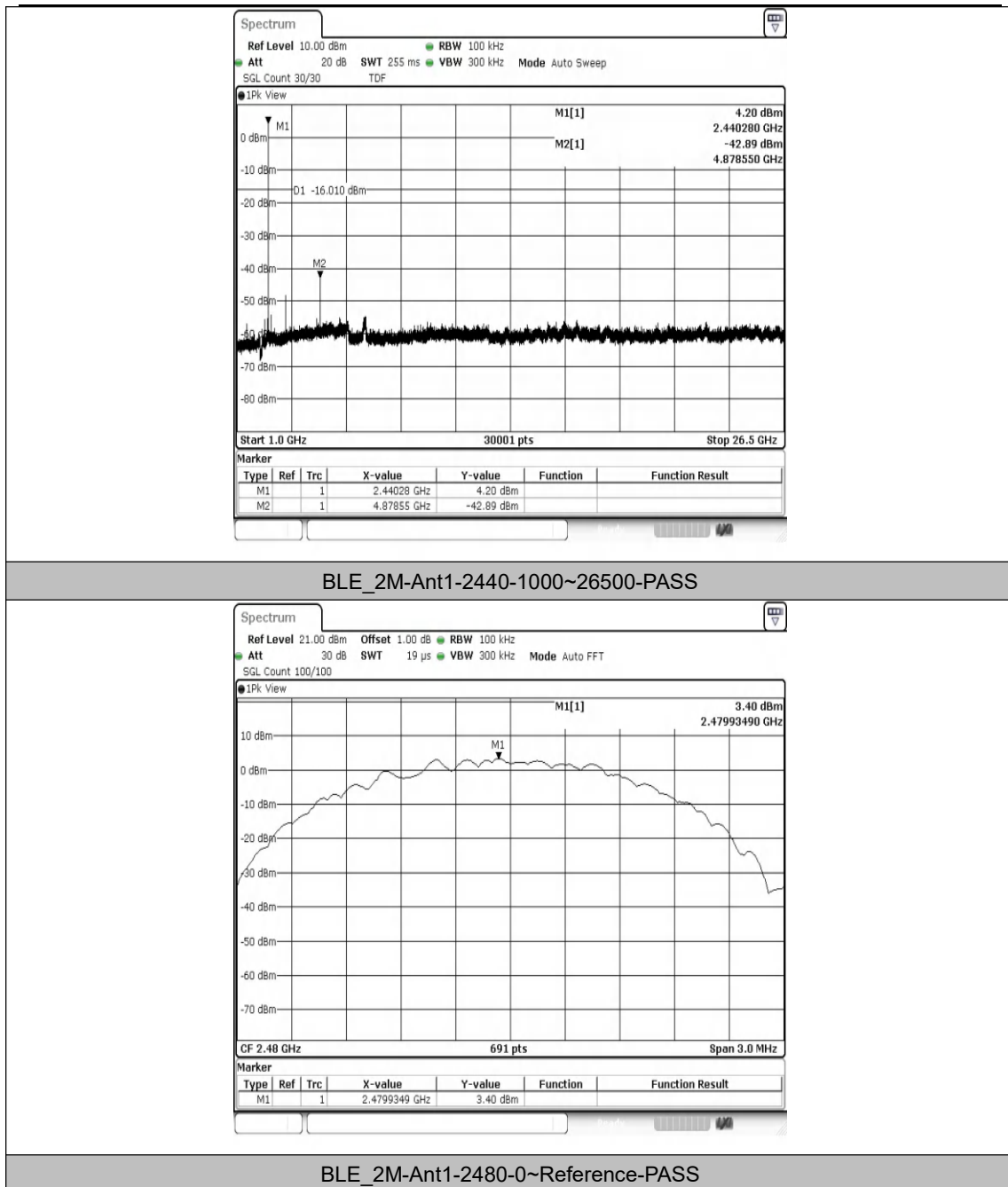
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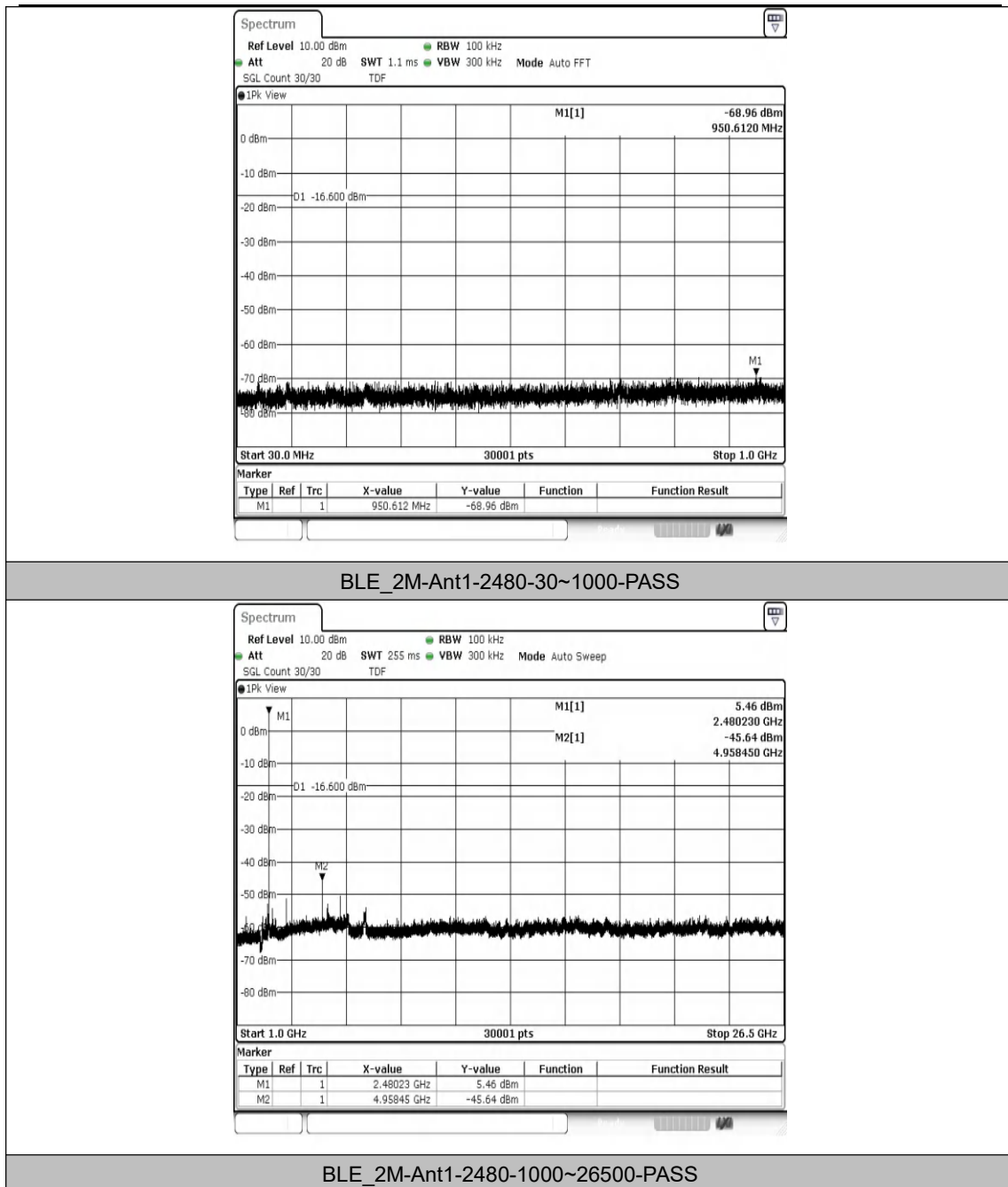
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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.11	2.50	84.40	0.74
BLE_1M	Ant1	2440	2.11	2.49	84.74	0.72
BLE_1M	Ant1	2480	2.11	2.50	84.40	0.74
BLE_2M	Ant1	2402	1.06	1.87	56.68	2.47
BLE_2M	Ant1	2440	1.06	1.87	56.68	2.47
BLE_2M	Ant1	2480	1.06	1.87	56.68	2.47

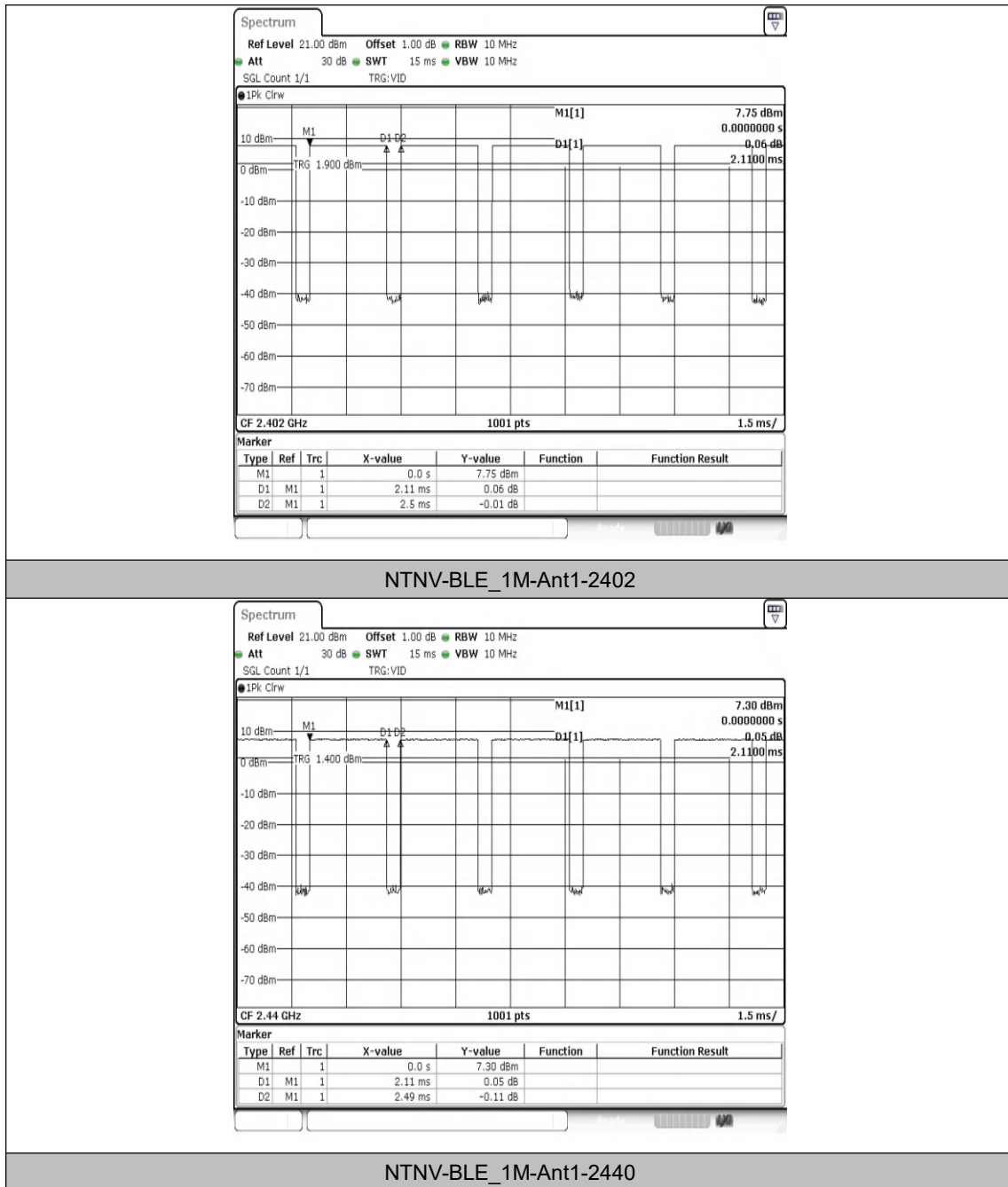
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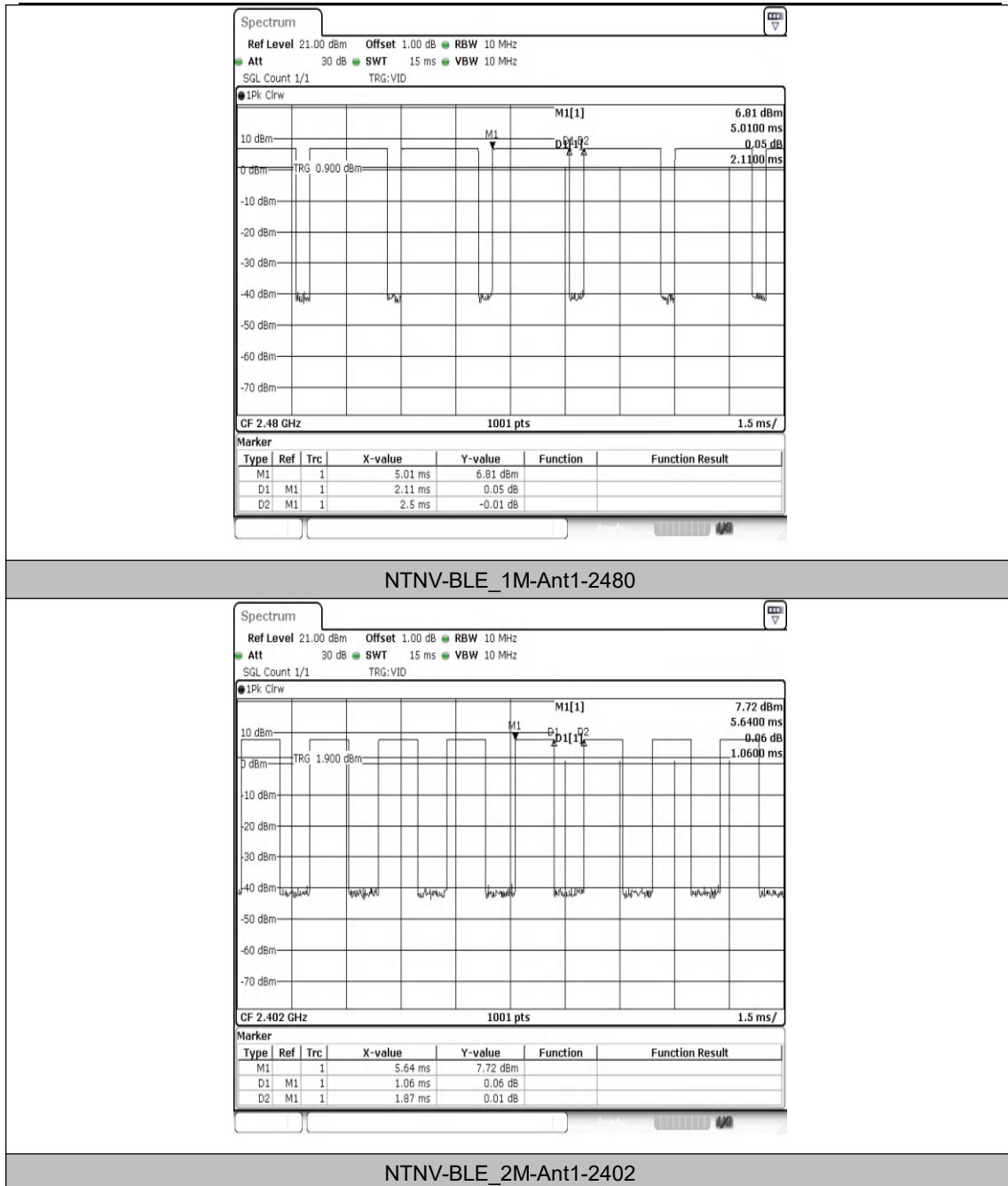
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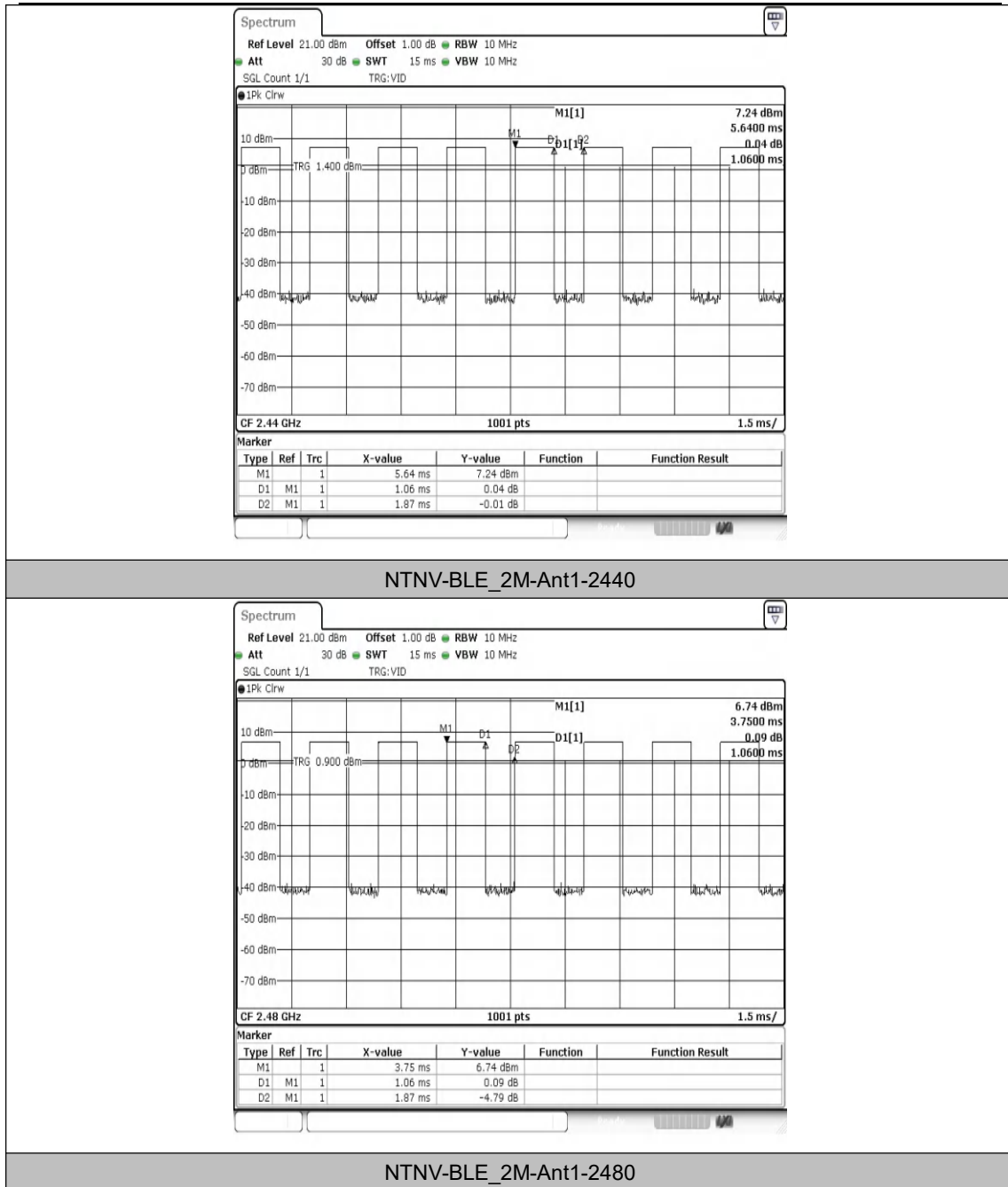


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Test Graphs







---End---