

Appendix Test Data

Report No:	1811C40040512501	Test Sample NO:	1-2-2
Start Test Date:	2024.10.23	Finish Test Date:	2024.10.23
Test Engineer:	<i>Foker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	26.3°C	Relative Humidity:	45%
Pressure:	101 kPa		

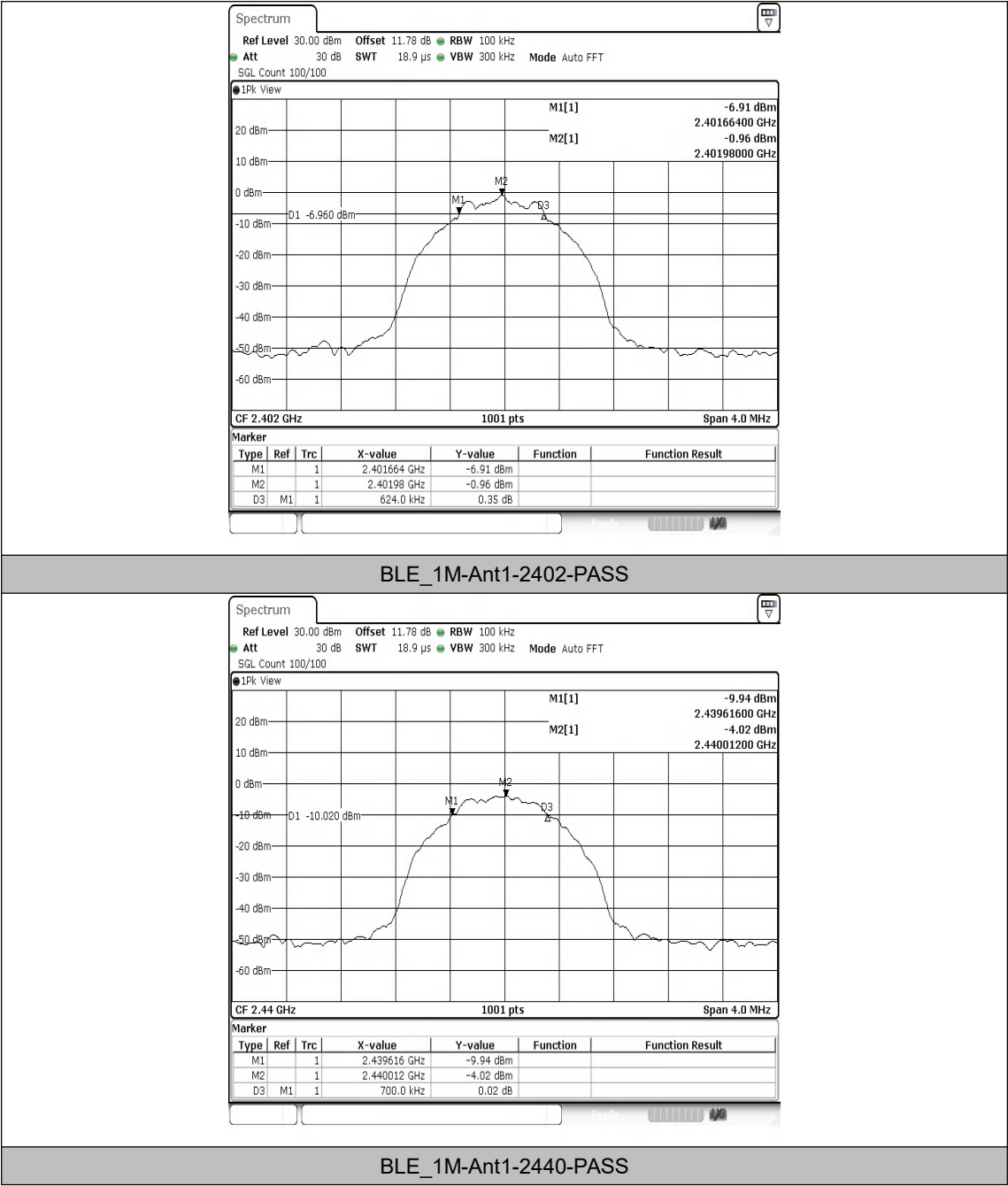
Appendix A: DTS Bandwidth

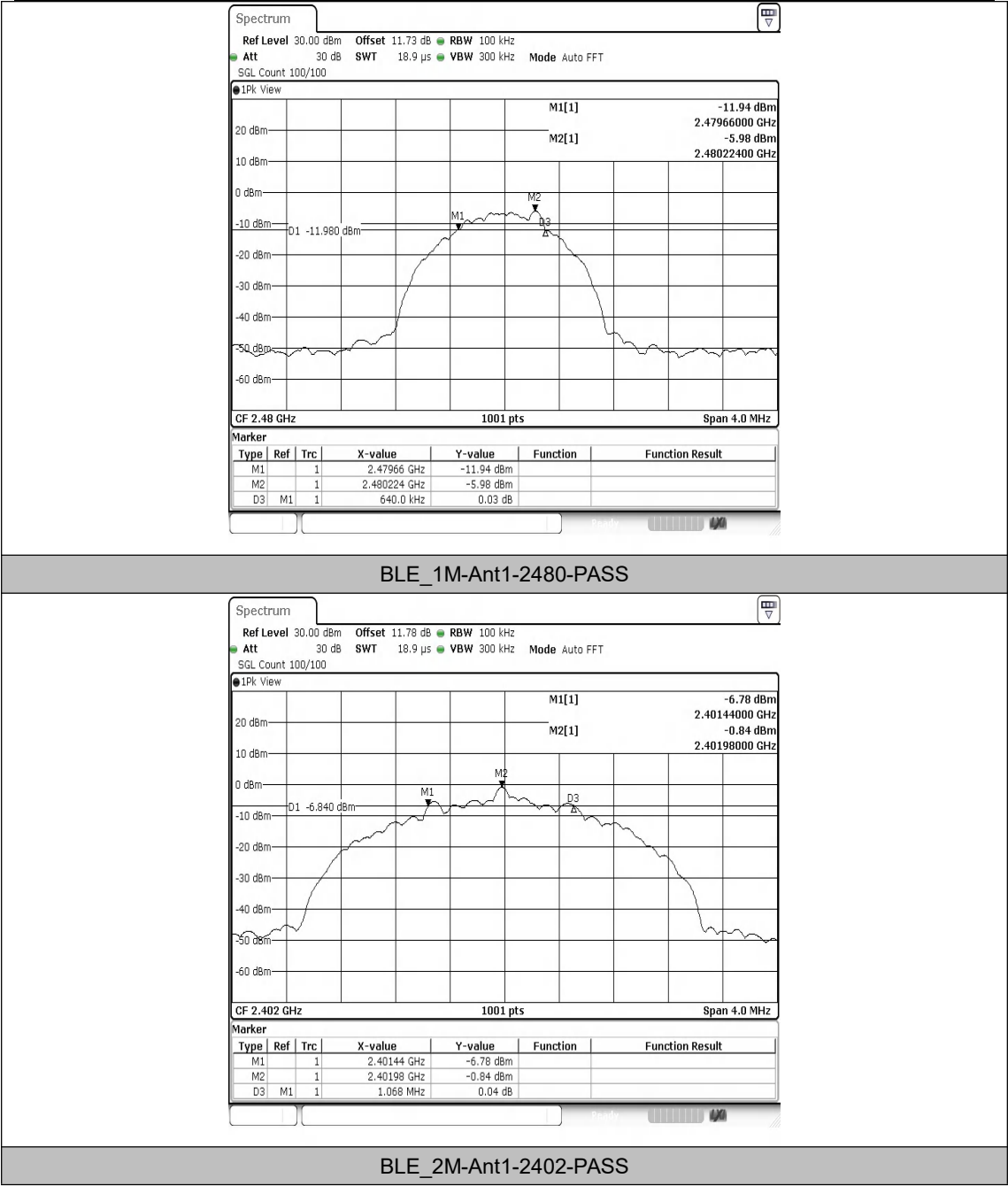
Test Result

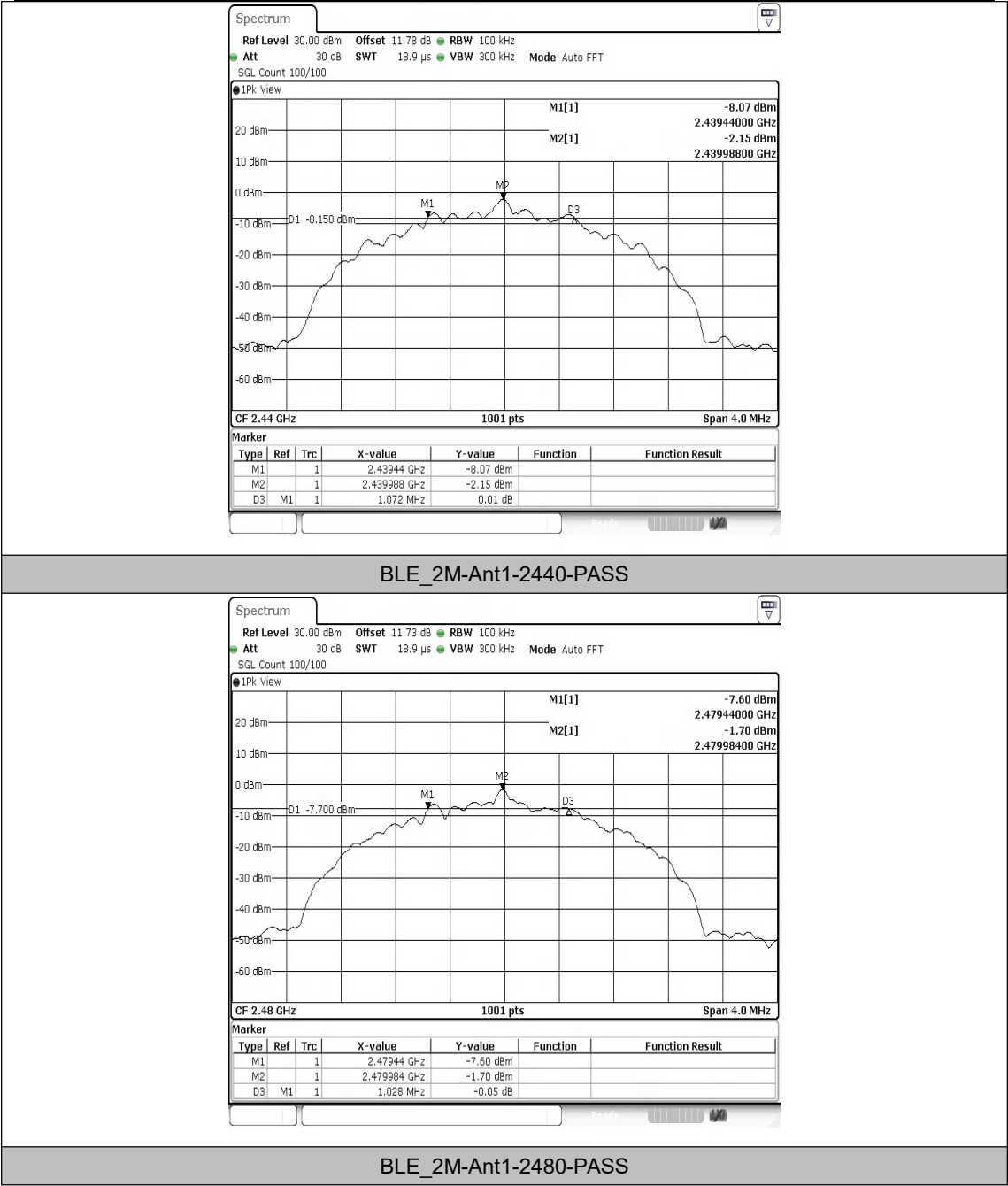
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.62	2401.66	2402.29	0.5	PASS
BLE_1M	Ant1	2440	0.70	2439.62	2440.32	0.5	PASS
BLE_1M	Ant1	2480	0.64	2479.66	2480.30	0.5	PASS
BLE_2M	Ant1	2402	1.07	2401.44	2402.51	0.5	PASS
BLE_2M	Ant1	2440	1.07	2439.44	2440.51	0.5	PASS
BLE_2M	Ant1	2480	1.03	2479.44	2480.47	0.5	PASS



Test Graphs







Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.087	2401.4366	2402.5235	---	---
BLE_1M	Ant1	2440	1.087	2439.4326	2440.5195	---	---
BLE_1M	Ant1	2480	1.091	2479.4406	2480.5315	---	---
BLE_2M	Ant1	2402	2.098	2400.9371	2403.0350	---	---
BLE_2M	Ant1	2440	2.134	2438.9091	2441.0430	---	---
BLE_2M	Ant1	2480	2.118	2478.9211	2481.0390	---	---

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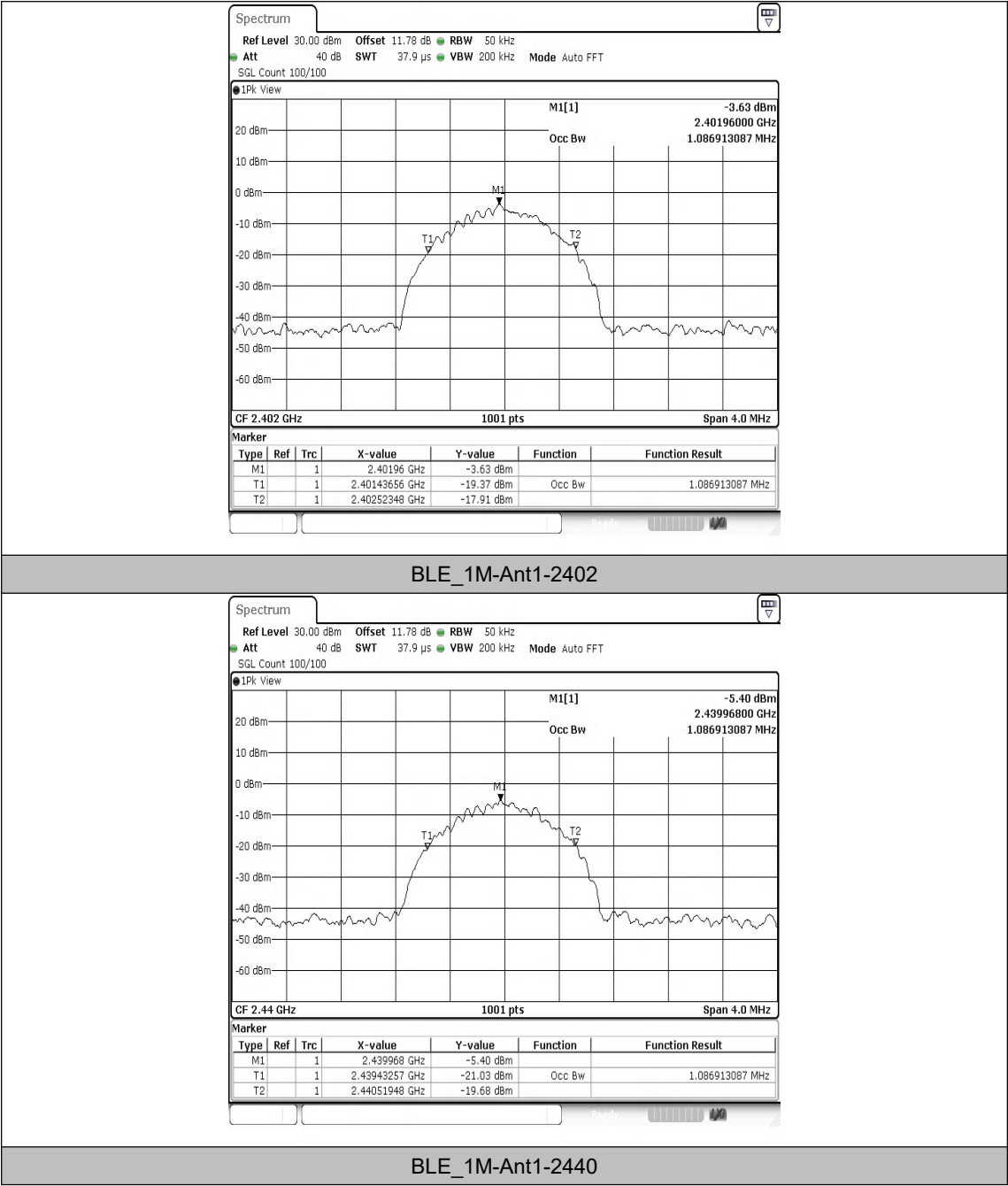
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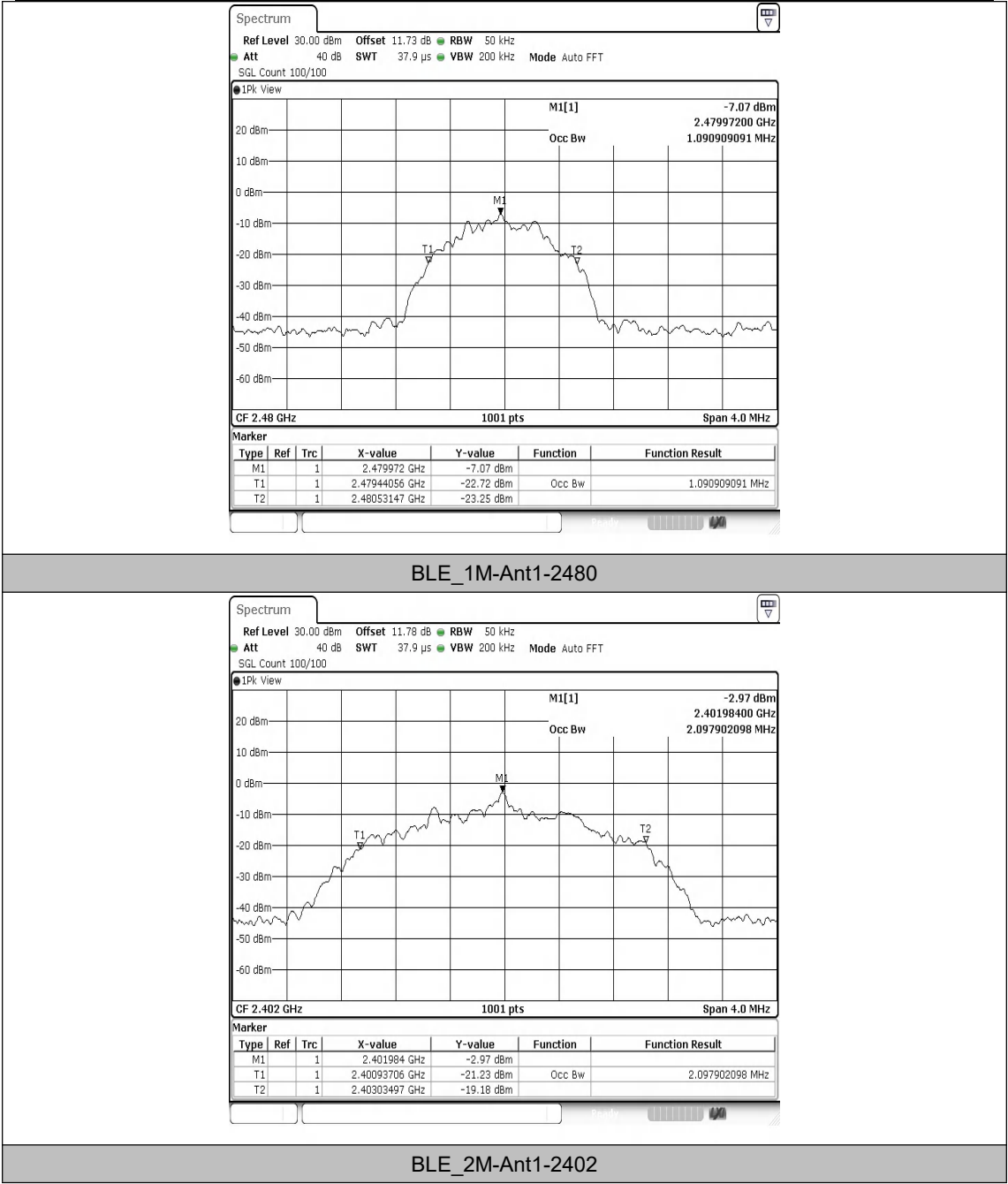


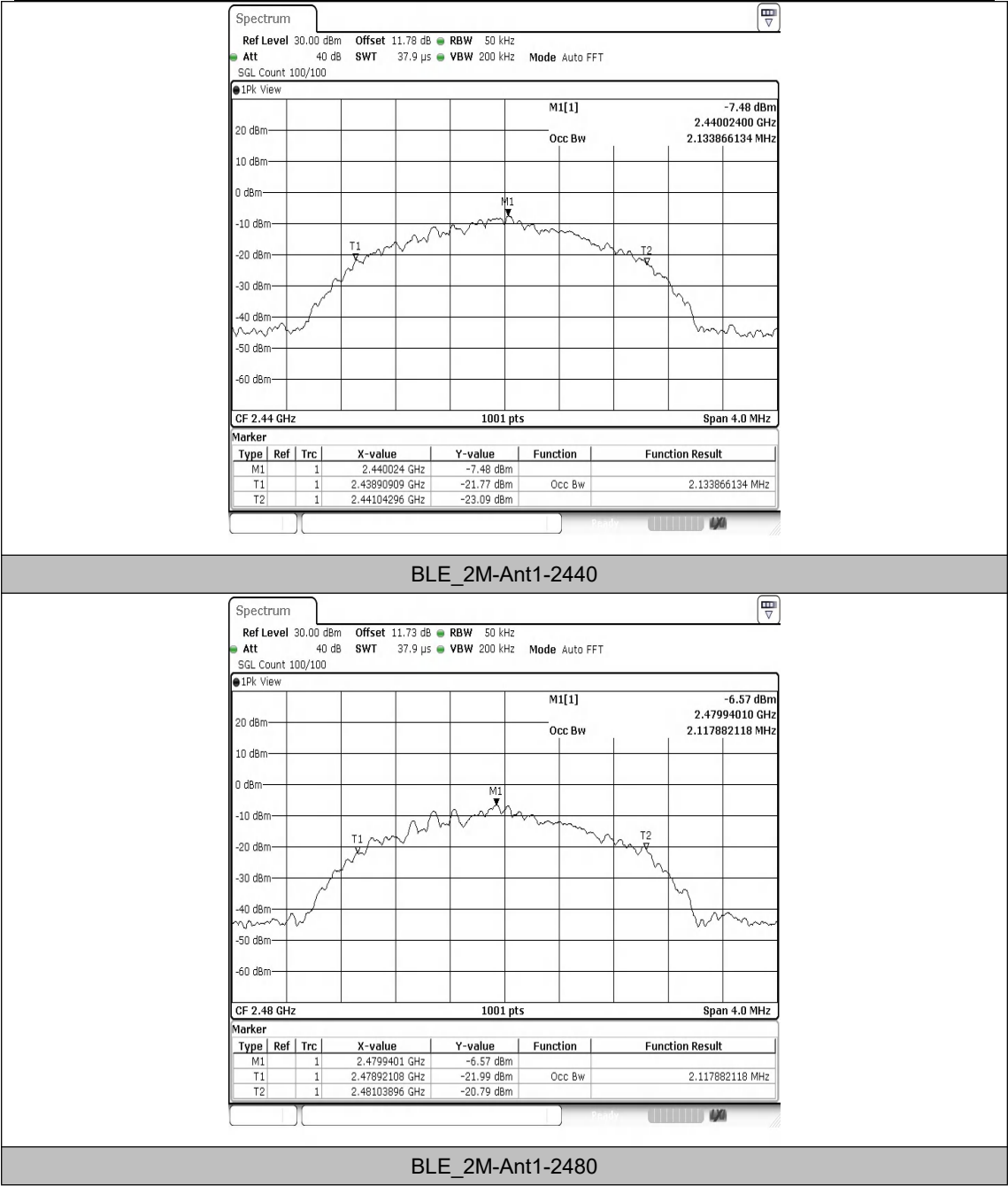
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Test Graphs







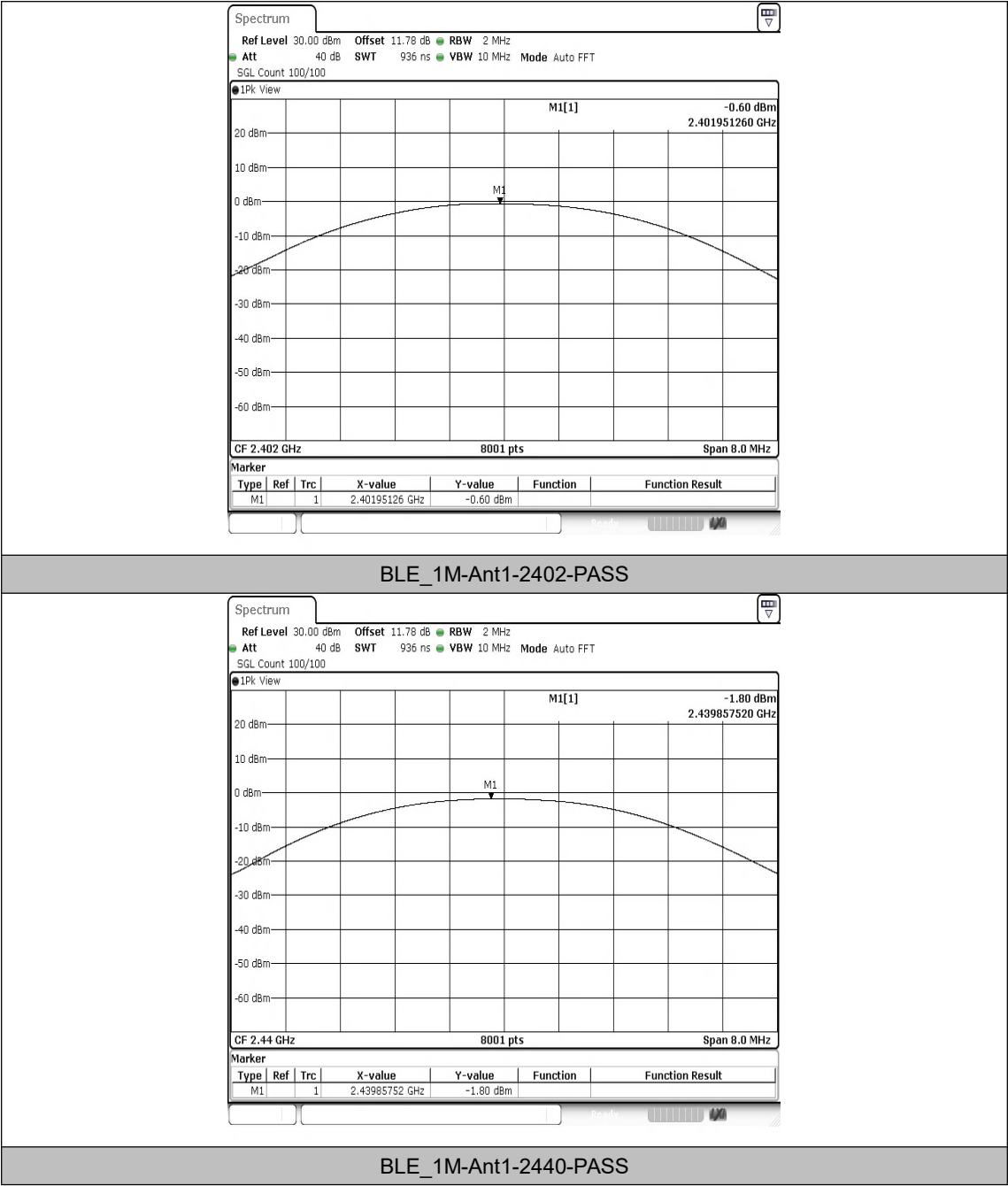
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.60	≤30	PASS
BLE_1M	Ant1	2440	-1.80	≤30	PASS
BLE_1M	Ant1	2480	-1.14	≤30	PASS
BLE_2M	Ant1	2402	-0.66	≤30	PASS
BLE_2M	Ant1	2440	-1.83	≤30	PASS
BLE_2M	Ant1	2480	-1.33	≤30	PASS



Test Graphs Peak

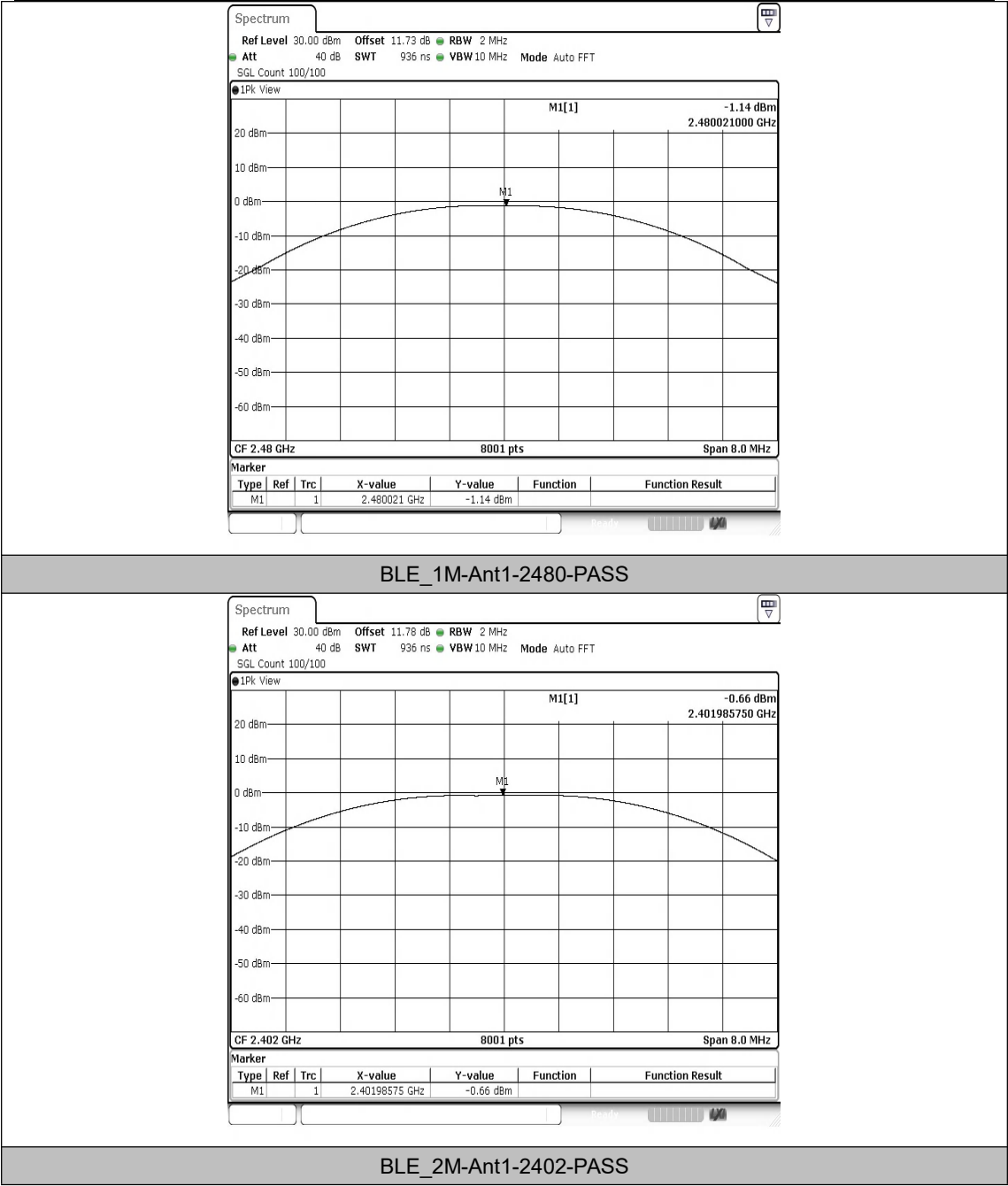


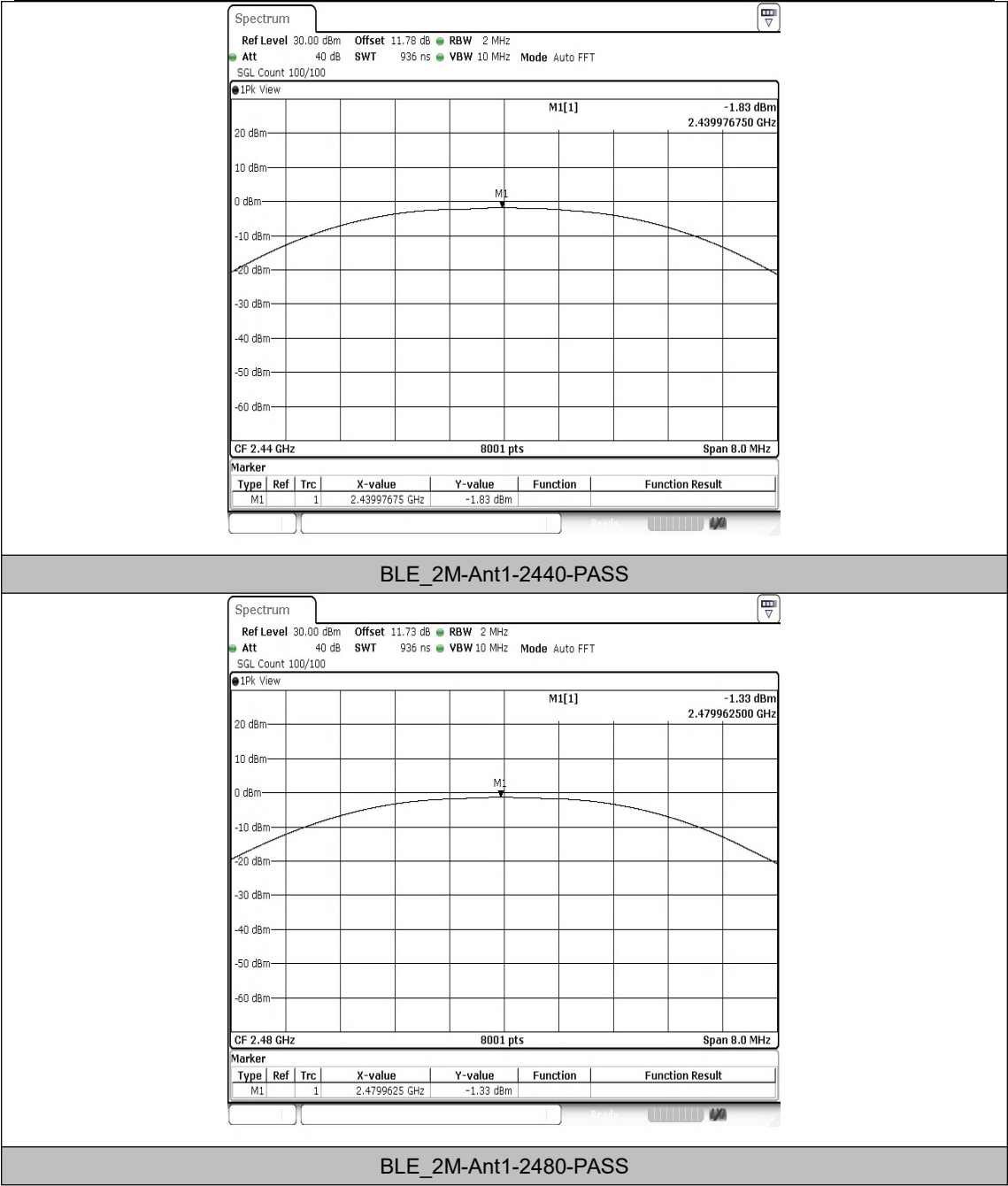
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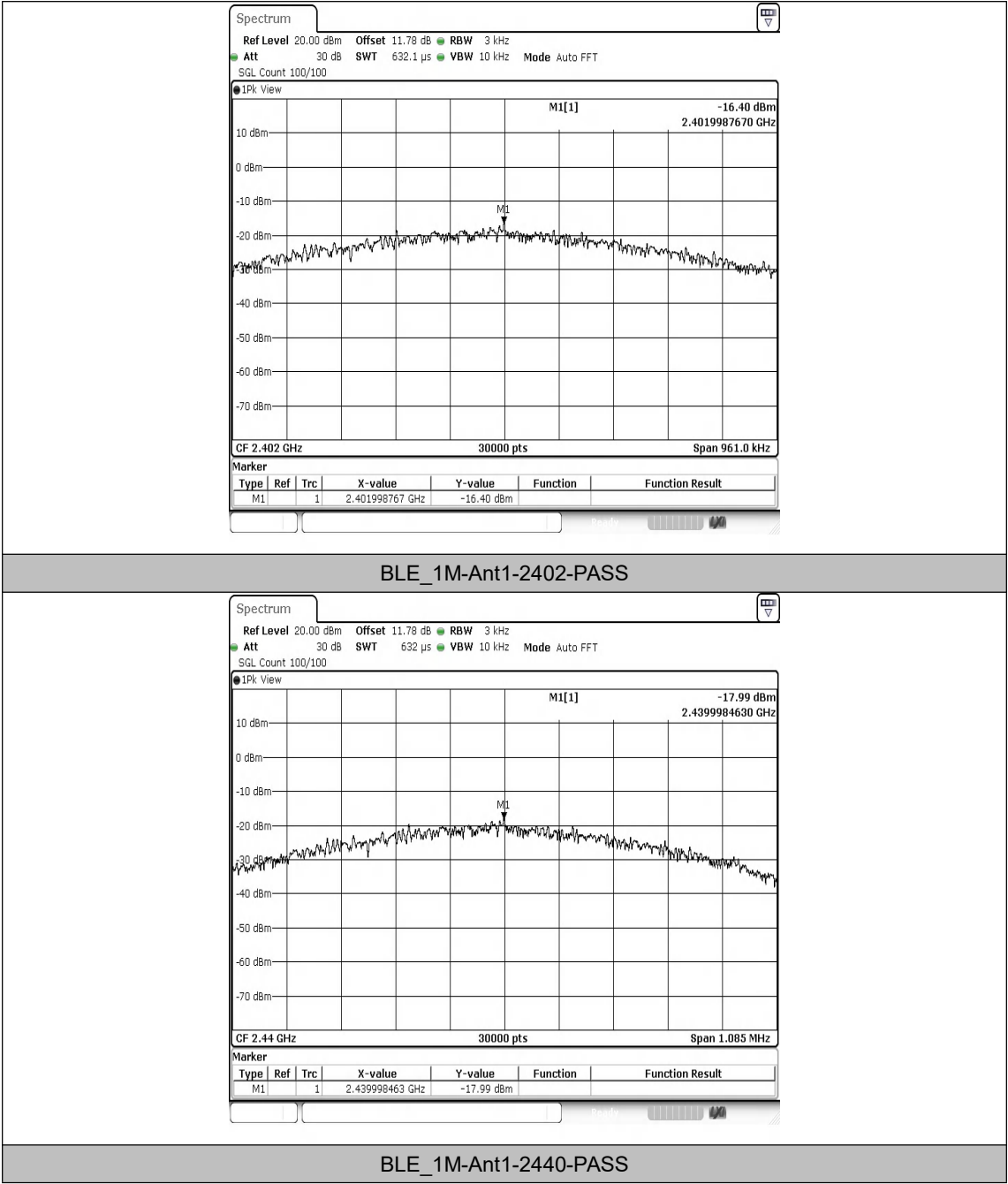
Appendix D: Maximum power spectral density

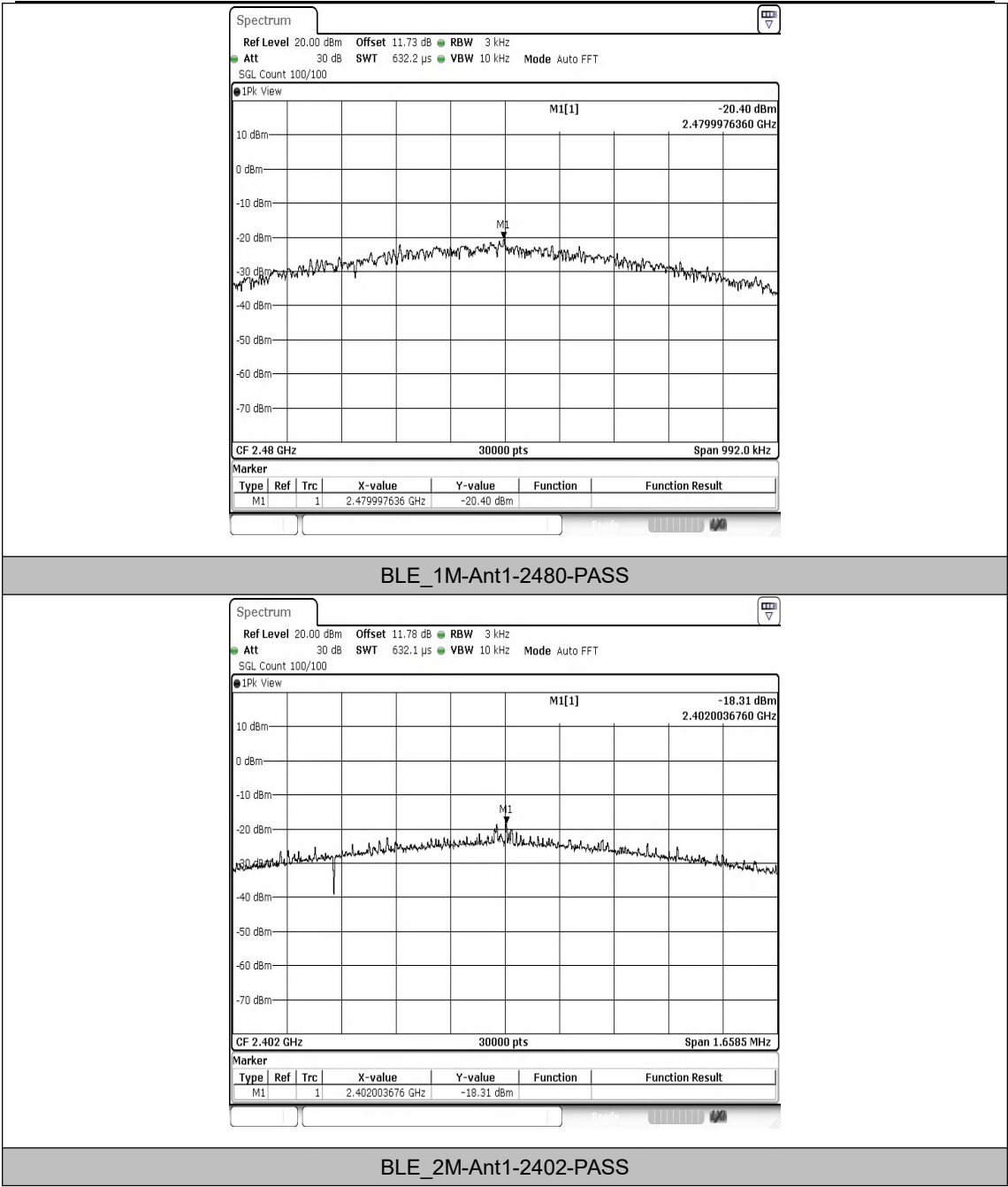
Test Result

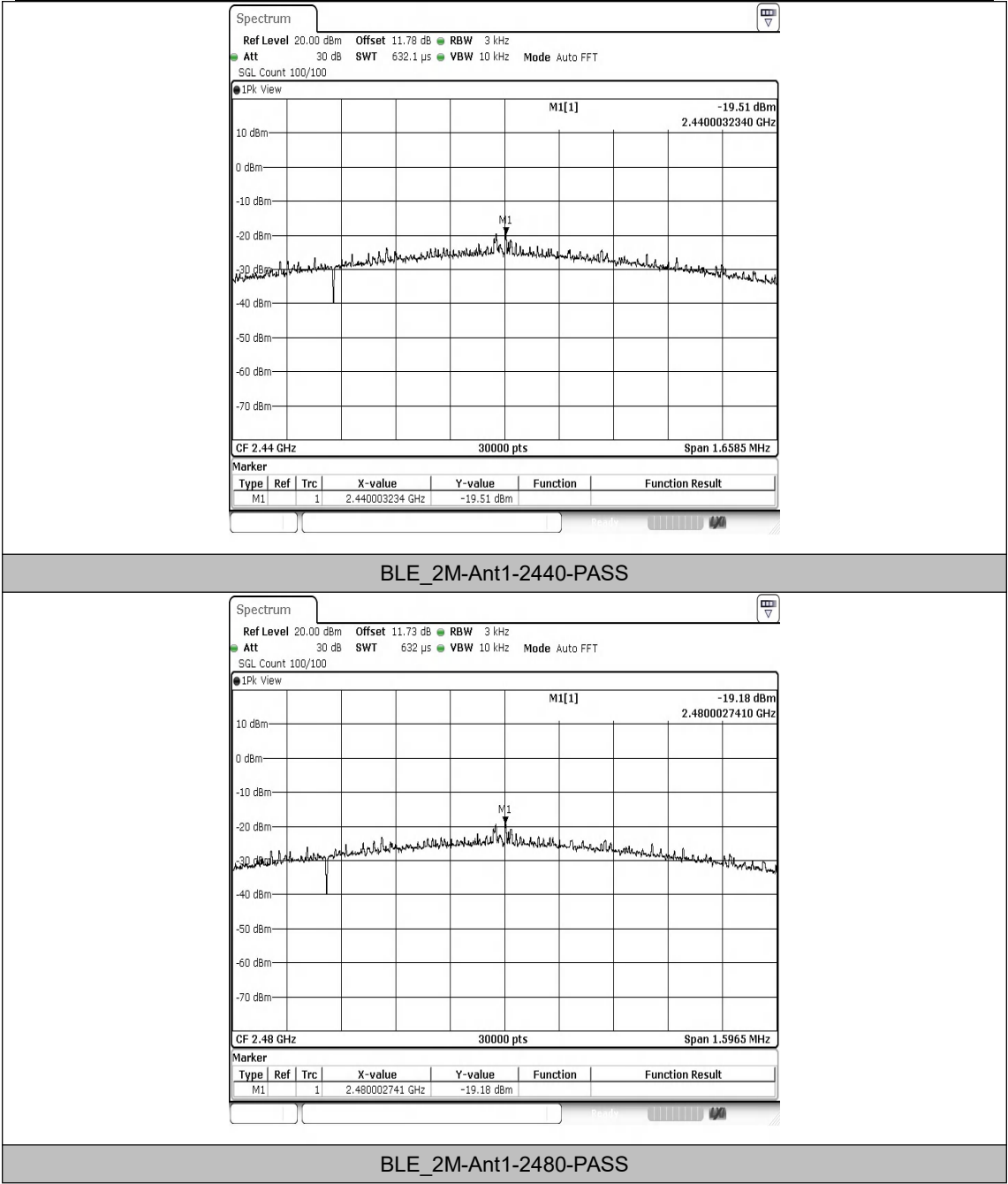
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.40	≤8.00	PASS
BLE_1M	Ant1	2440	-17.99	≤8.00	PASS
BLE_1M	Ant1	2480	-20.40	≤8.00	PASS
BLE_2M	Ant1	2402	-18.31	≤8.00	PASS
BLE_2M	Ant1	2440	-19.51	≤8.00	PASS
BLE_2M	Ant1	2480	-19.18	≤8.00	PASS



Test Graphs







Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.33	-47.38	≤-21.33	PASS
BLE_1M	Ant1	High	2480	-4.86	-46.95	≤-24.86	PASS
BLE_2M	Ant1	Low	2402	-0.79	-48.03	≤-20.79	PASS
BLE_2M	Ant1	High	2480	-4.98	-46.77	≤-24.98	PASS

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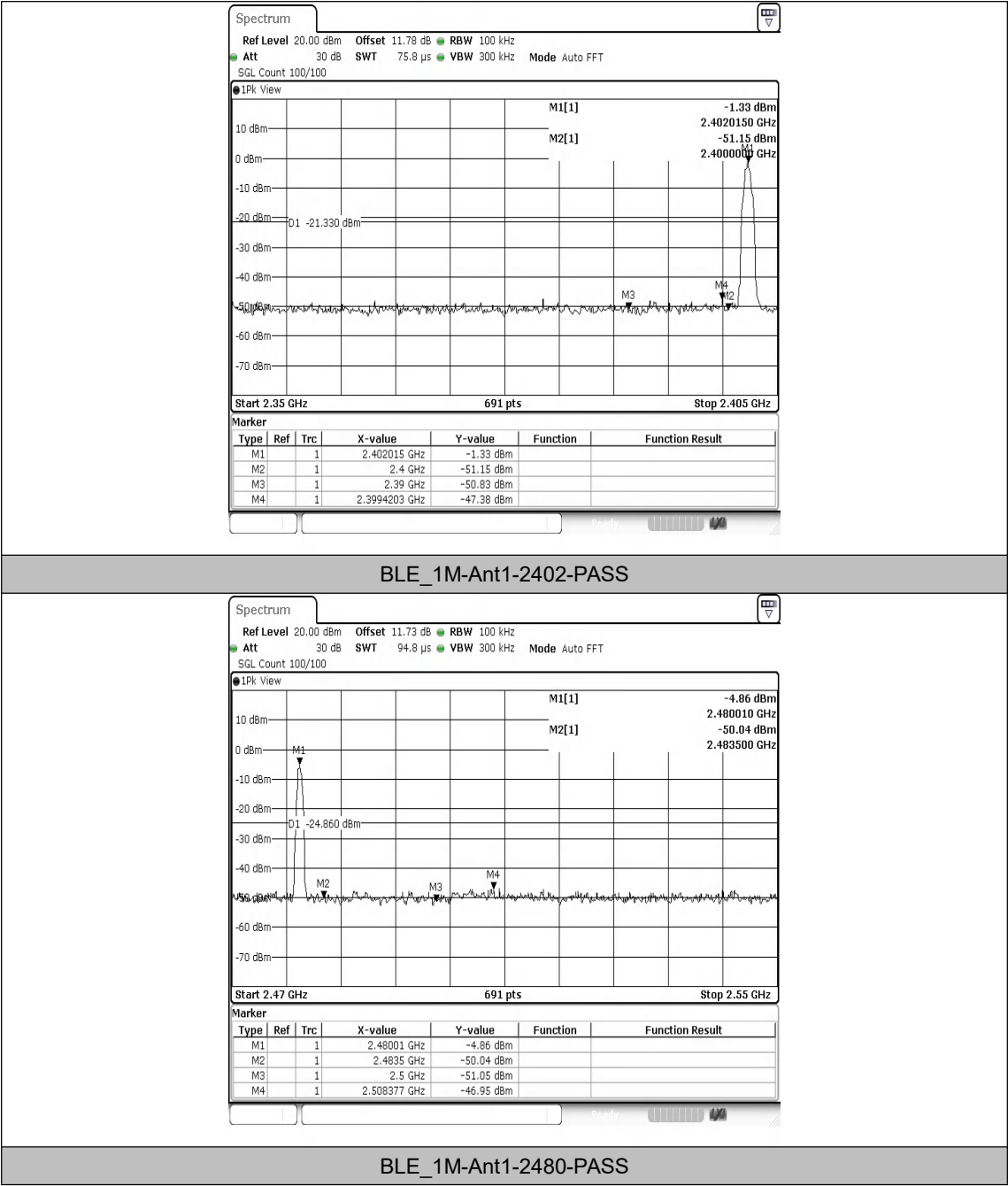
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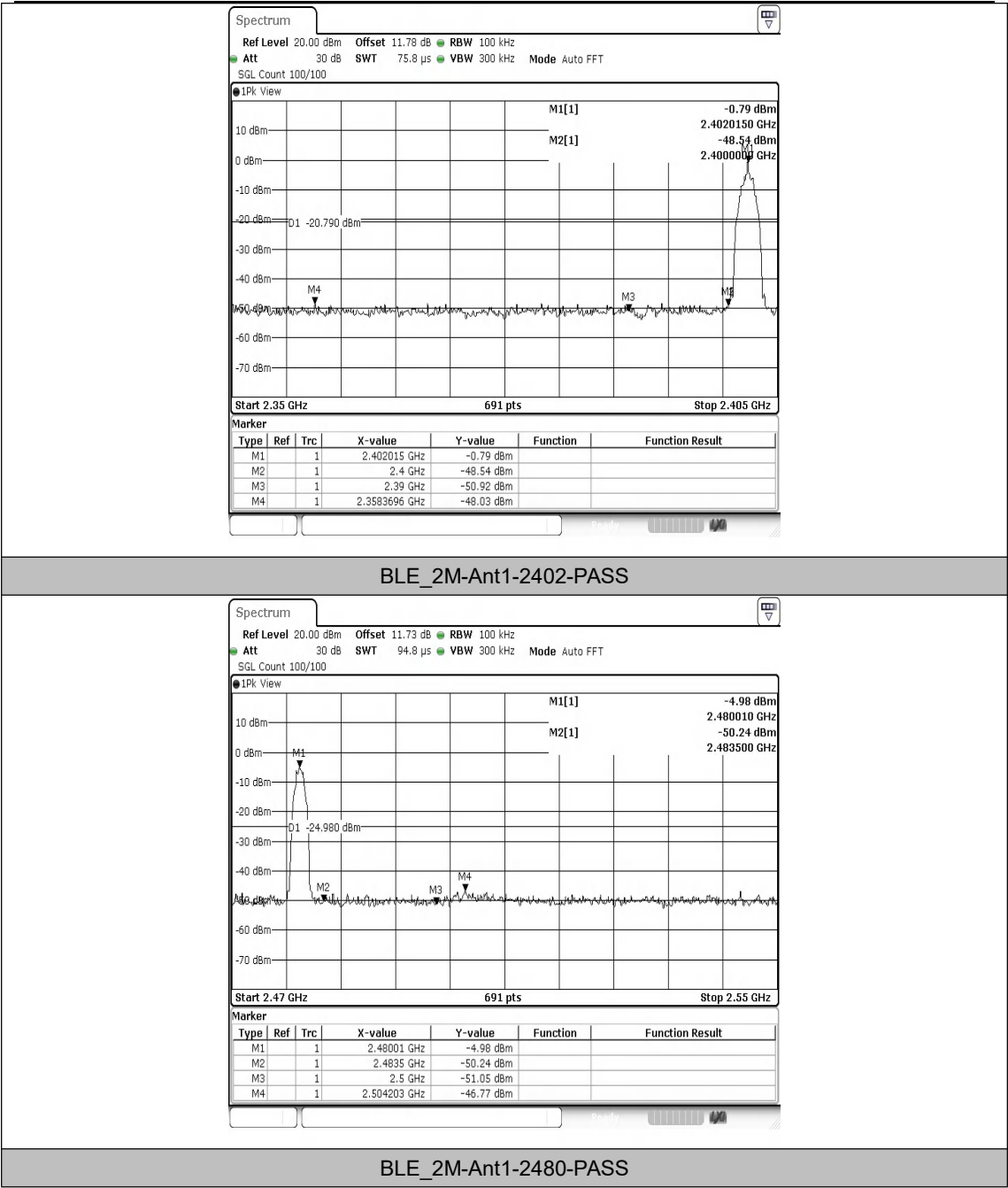


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Test Graphs





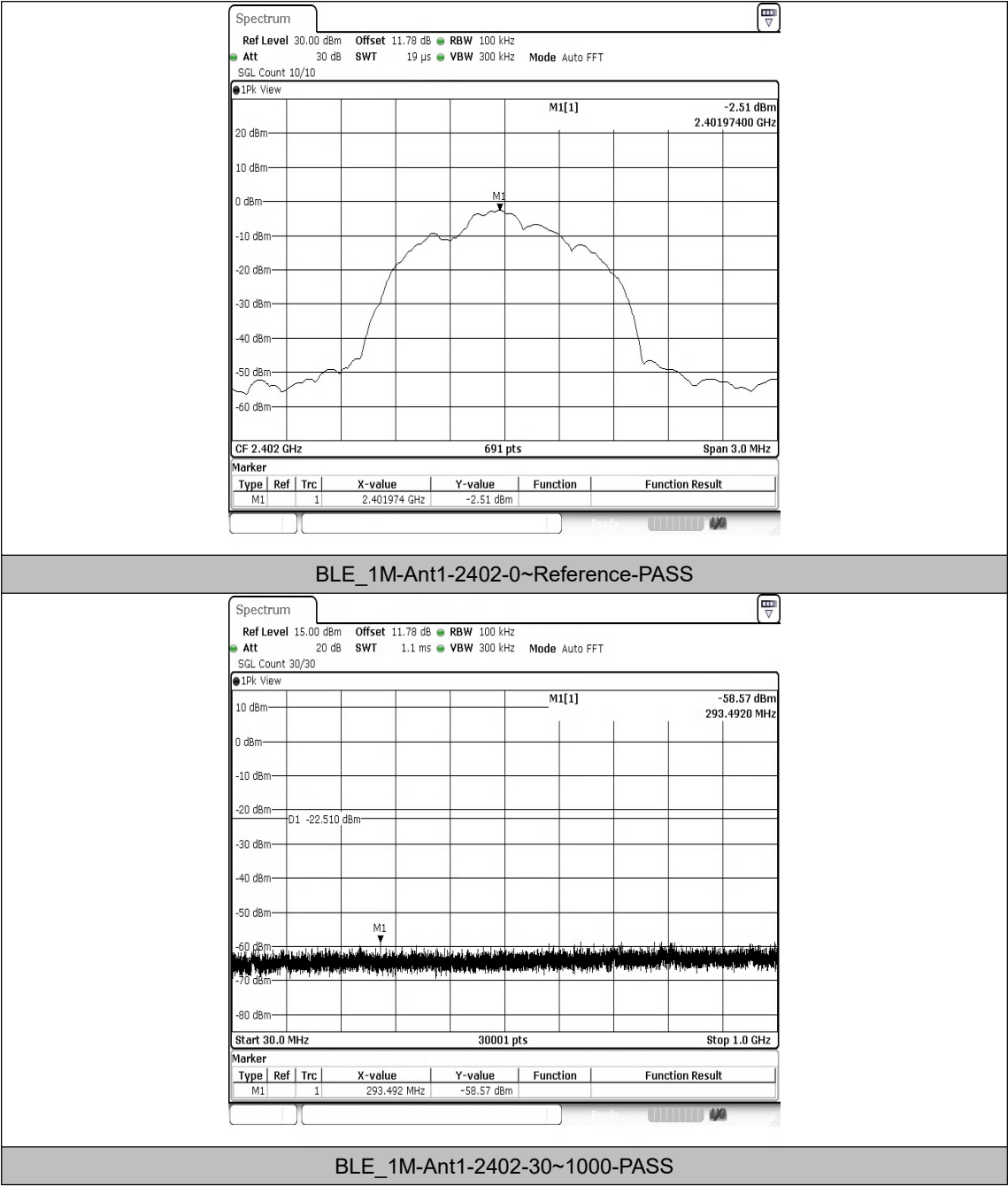
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-2.51	-2.51	---	PASS
BLE_1M	Ant1	2402	30~1000	-2.51	-58.57	≤-22.51	PASS
BLE_1M	Ant1	2402	1000~26500	-2.51	-43.54	≤-22.51	PASS
BLE_1M	Ant1	2440	0~Reference	-4.03	-4.03	---	PASS
BLE_1M	Ant1	2440	30~1000	-4.03	-57.69	≤-24.03	PASS
BLE_1M	Ant1	2440	1000~26500	-4.03	-42.83	≤-24.03	PASS
BLE_1M	Ant1	2480	0~Reference	-7.08	-7.08	---	PASS
BLE_1M	Ant1	2480	30~1000	-7.08	-58.2	≤-27.08	PASS
BLE_1M	Ant1	2480	1000~26500	-7.08	-43.34	≤-27.08	PASS
BLE_2M	Ant1	2402	0~Reference	-0.89	-0.89	---	PASS
BLE_2M	Ant1	2402	30~1000	-0.89	-57.98	≤-20.89	PASS
BLE_2M	Ant1	2402	1000~26500	-0.89	-43.85	≤-20.89	PASS
BLE_2M	Ant1	2440	0~Reference	-6.60	-6.60	---	PASS
BLE_2M	Ant1	2440	30~1000	-6.60	-57.55	≤-26.6	PASS
BLE_2M	Ant1	2440	1000~26500	-6.60	-42.91	≤-26.6	PASS
BLE_2M	Ant1	2480	0~Reference	-3.80	-3.80	---	PASS
BLE_2M	Ant1	2480	30~1000	-3.80	-57.68	≤-23.8	PASS
BLE_2M	Ant1	2480	1000~26500	-3.80	-43.38	≤-23.8	PASS



Test Graphs

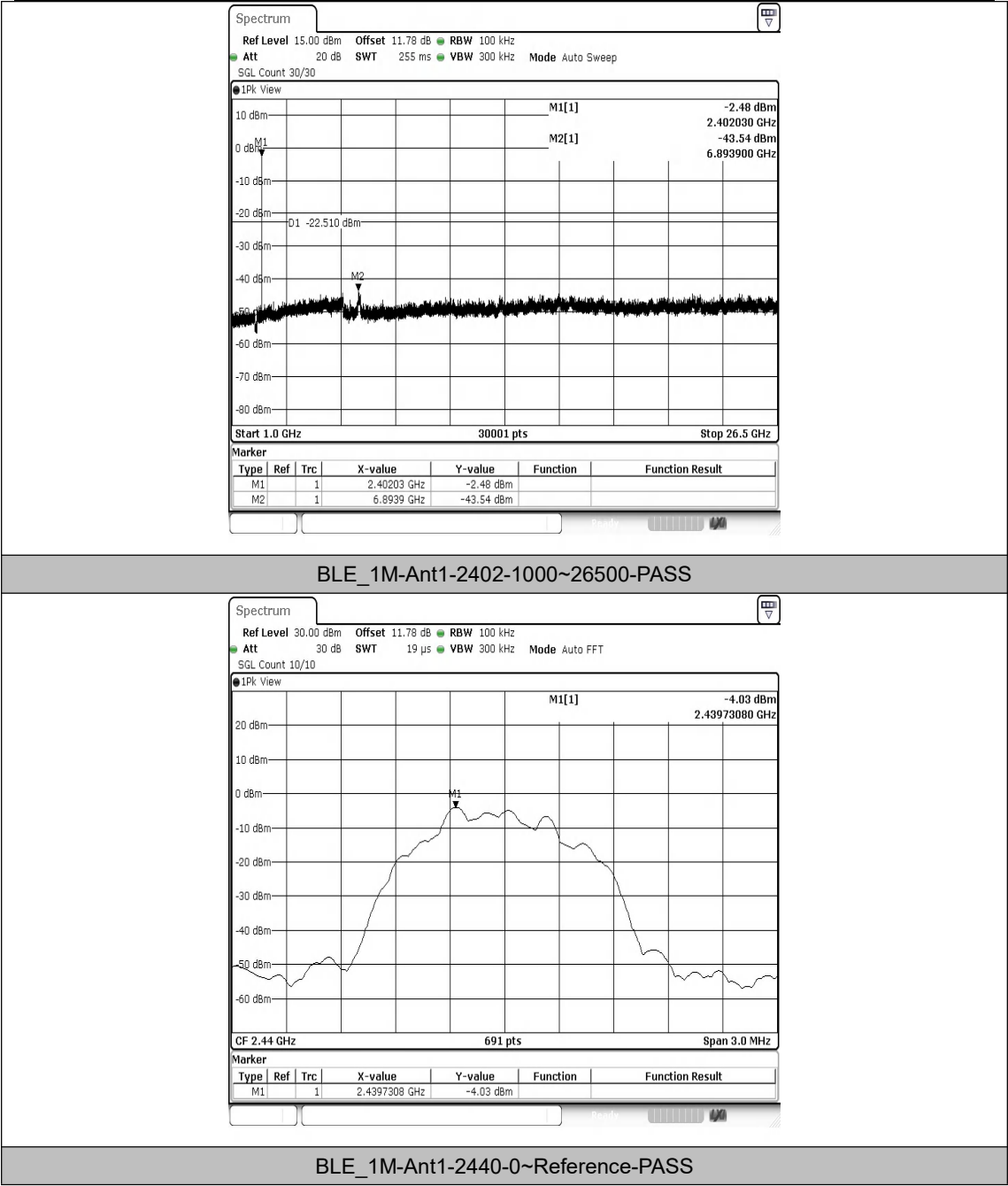


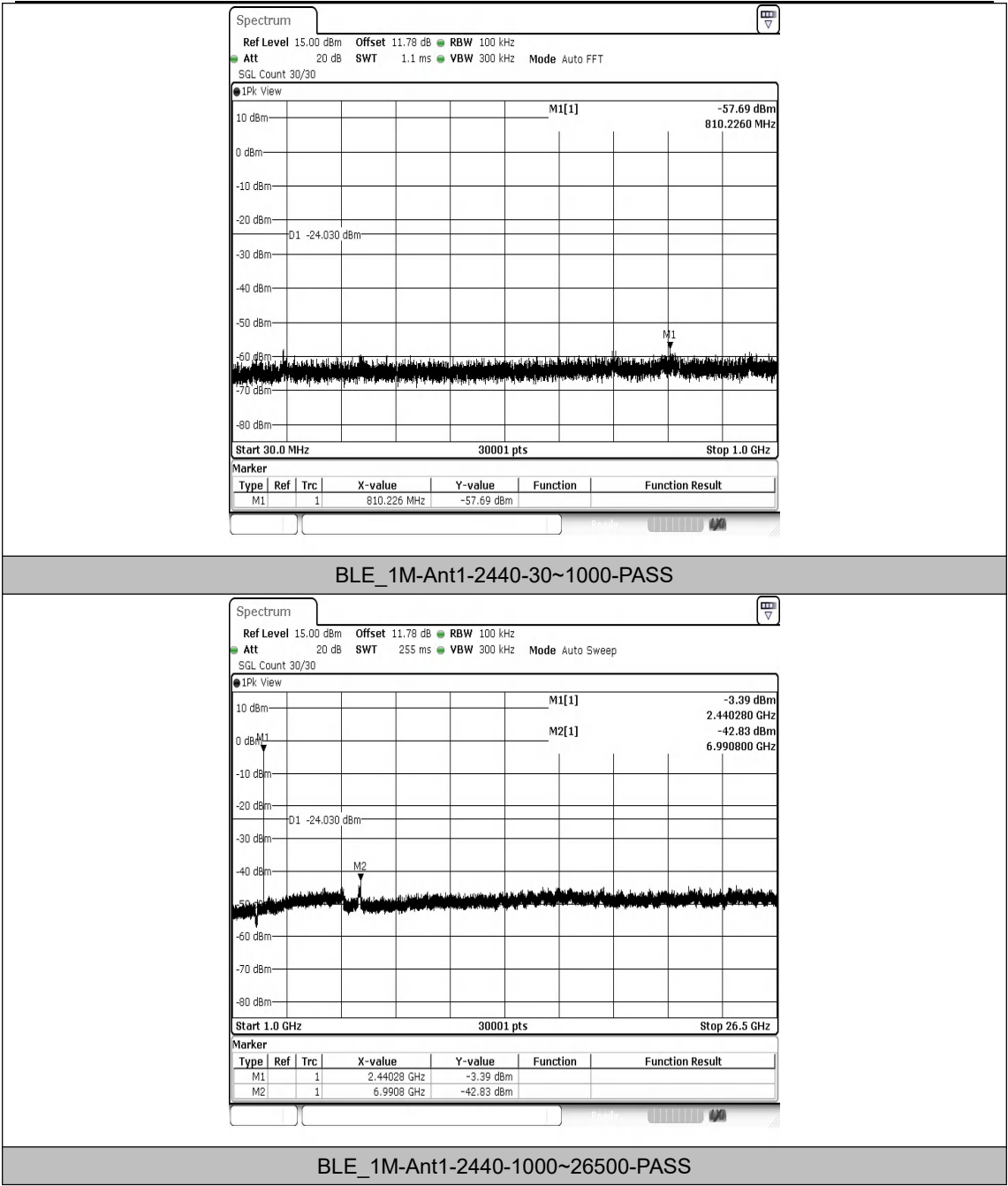
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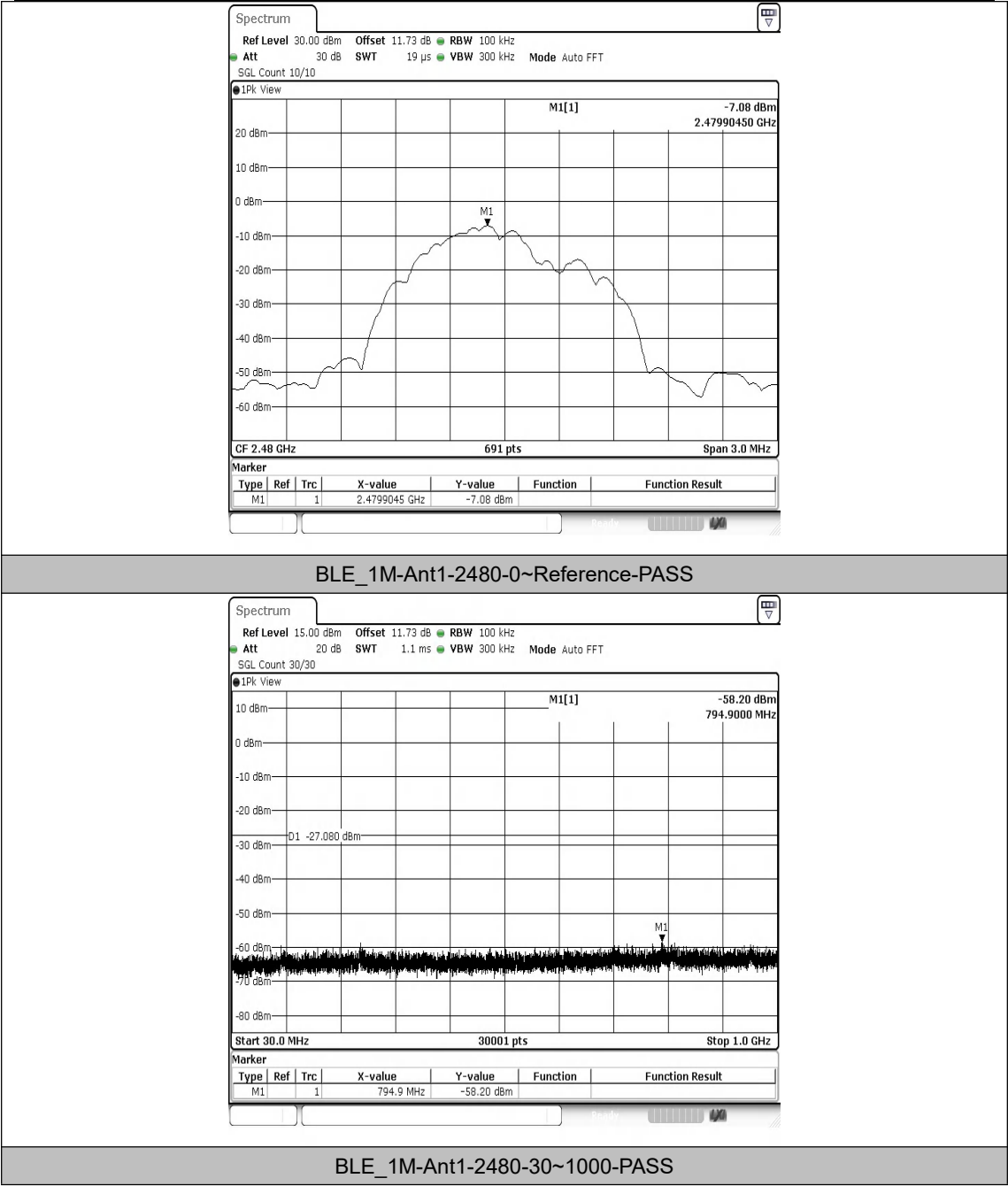
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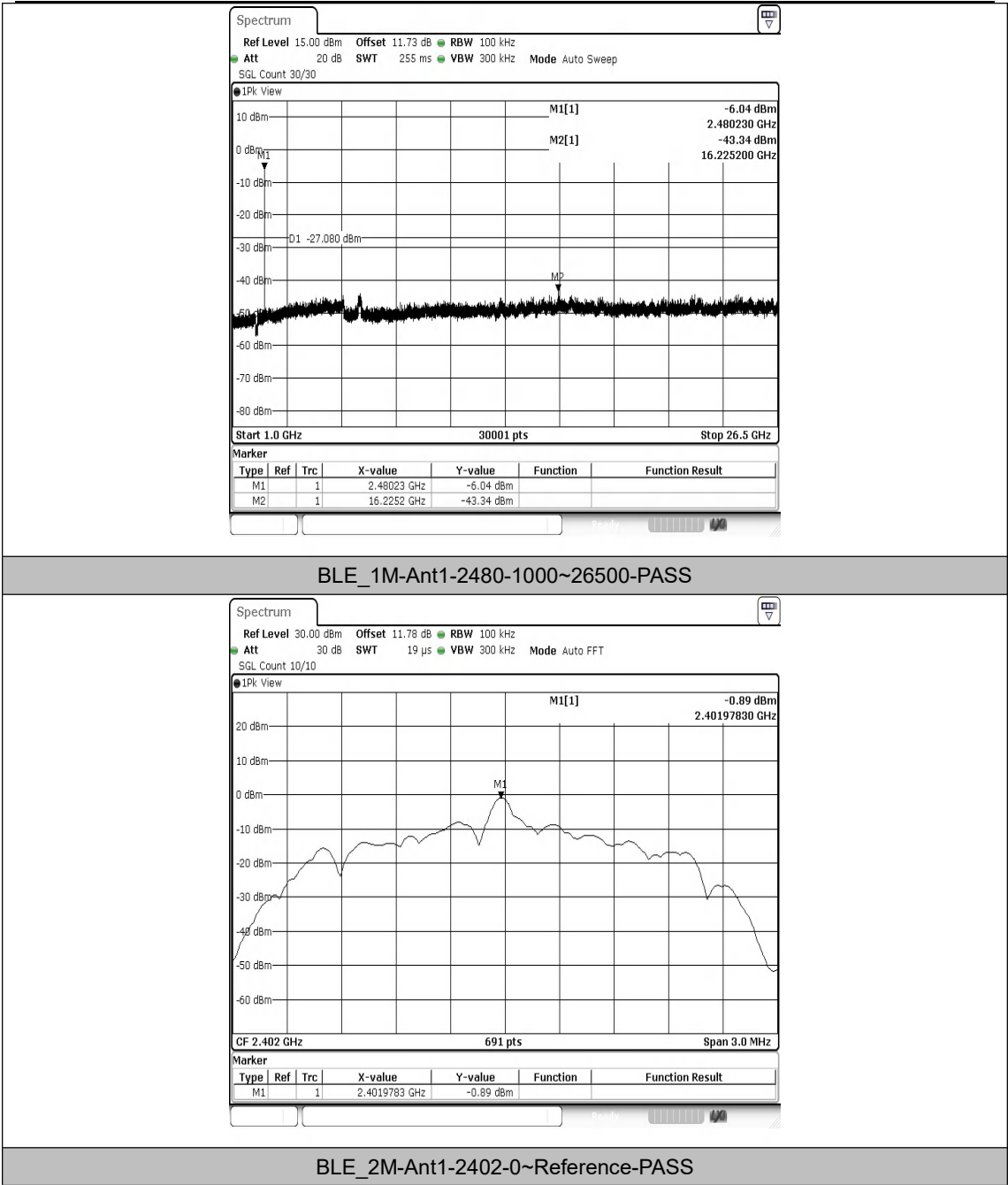
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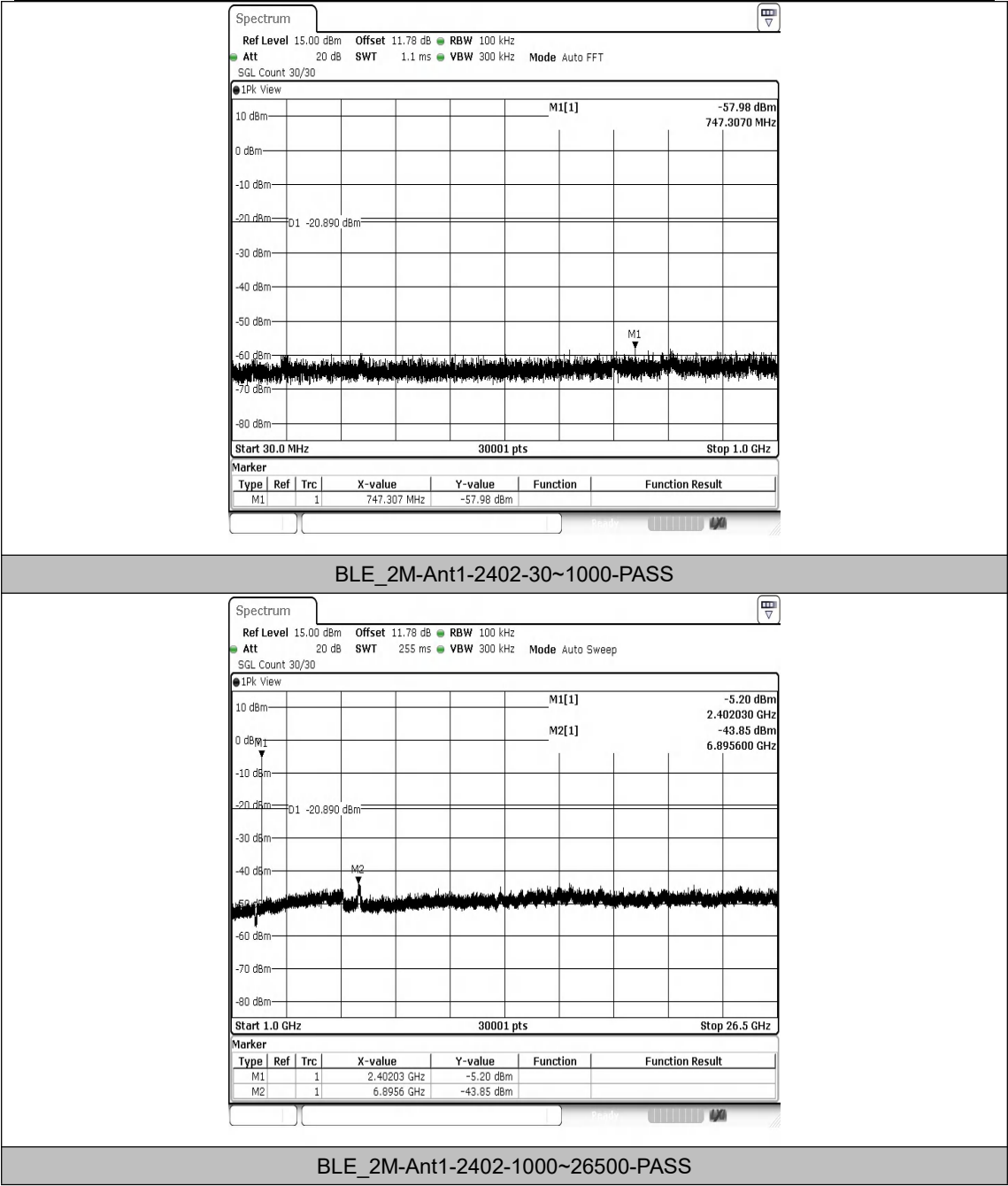


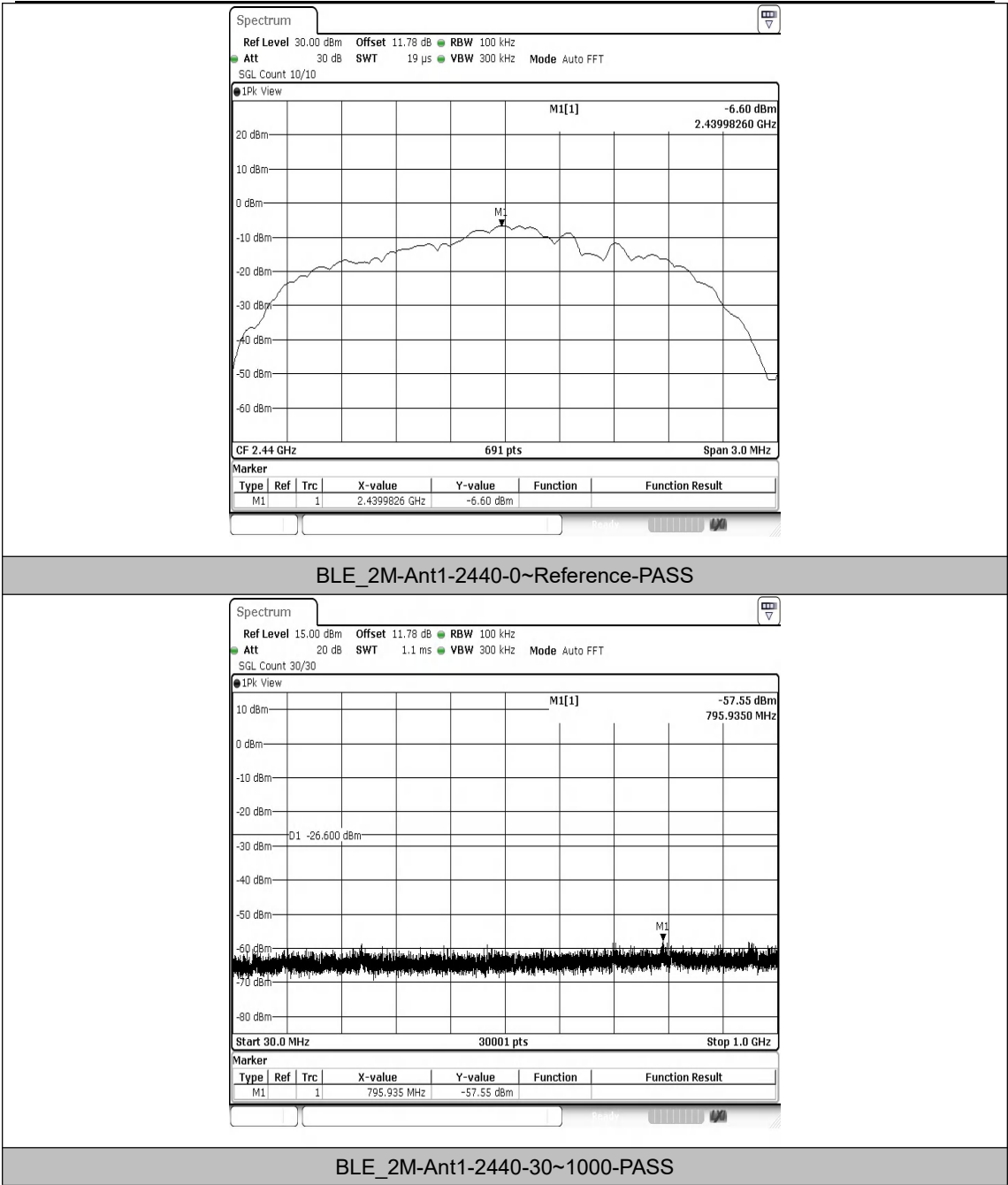


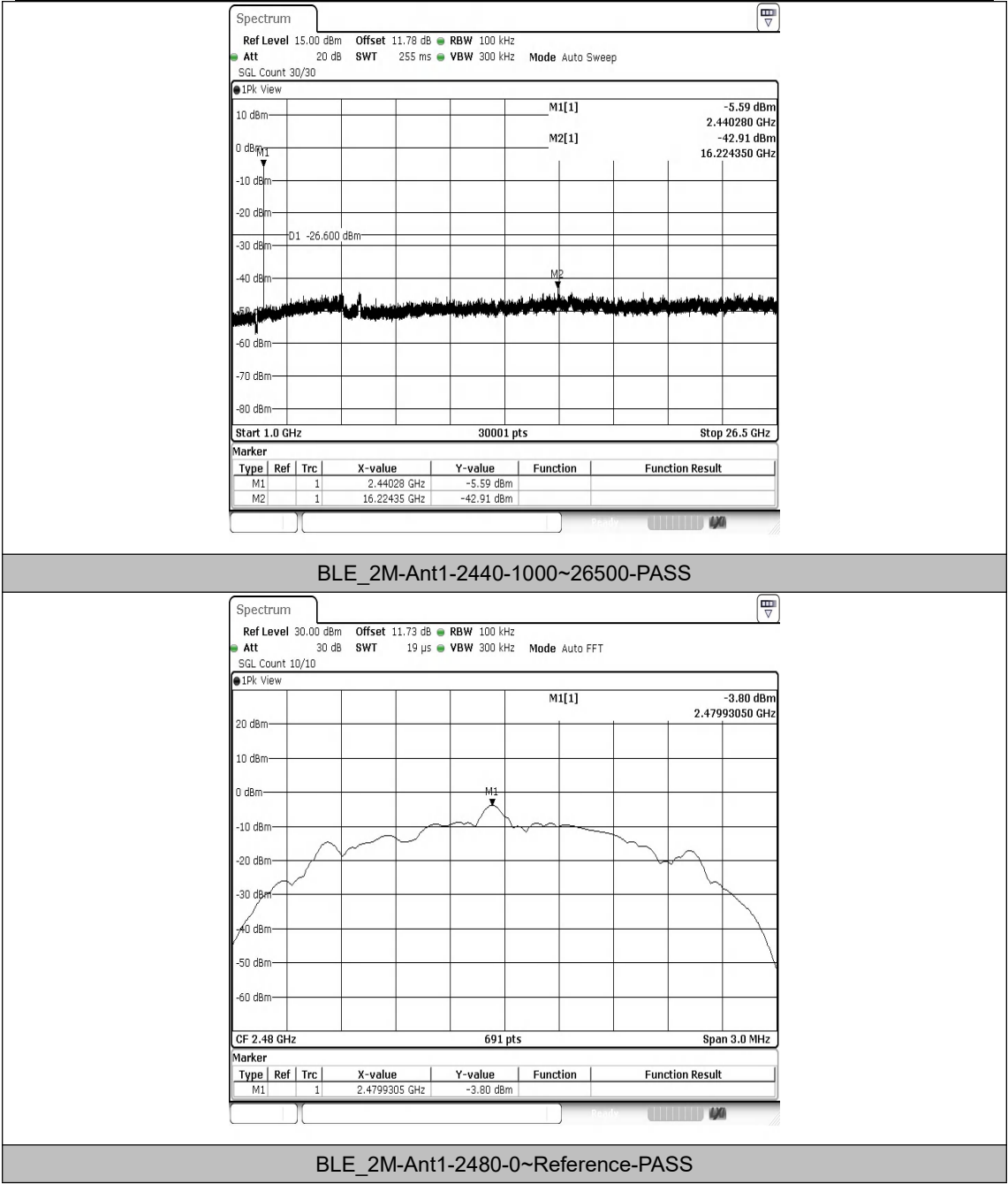


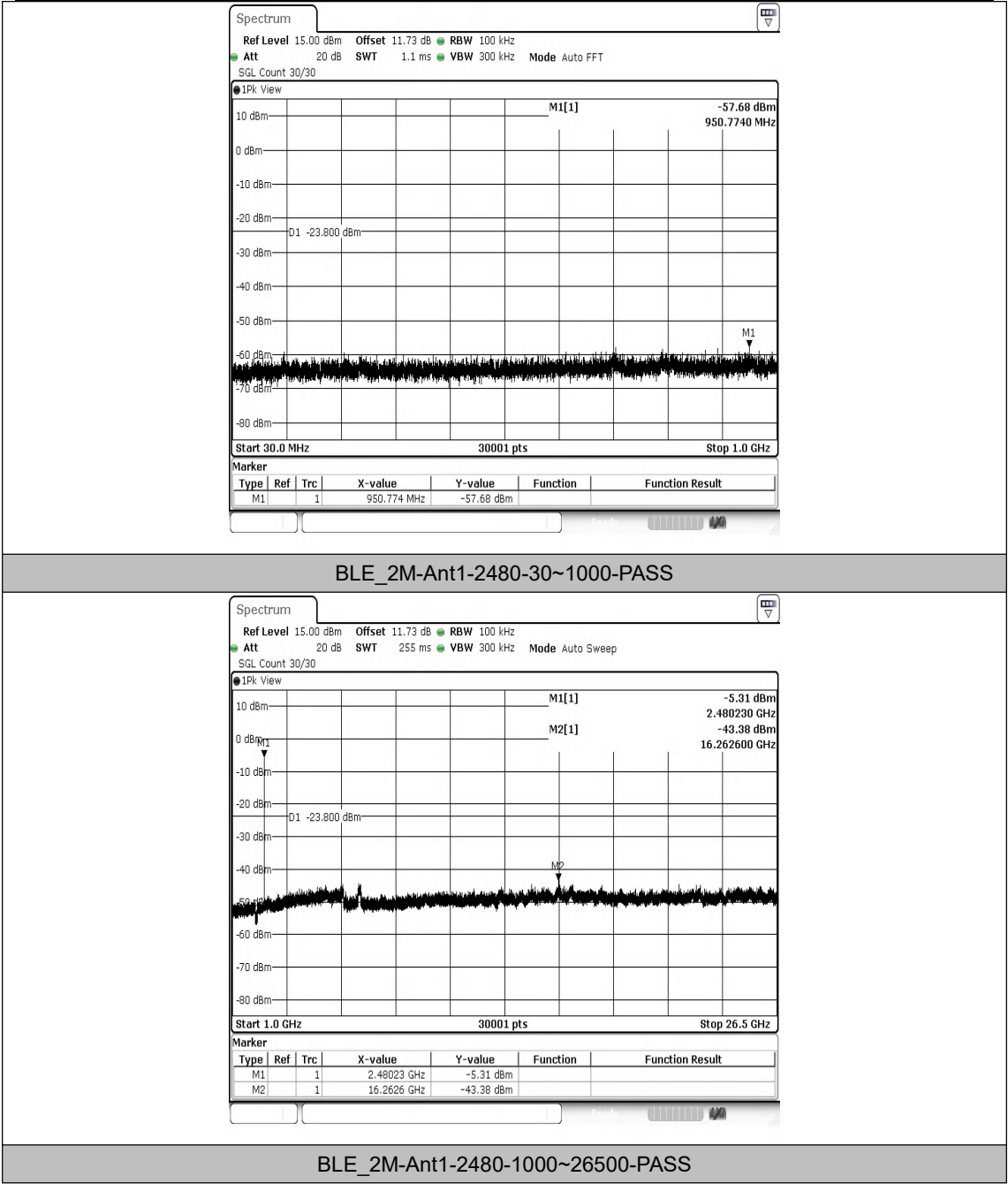












Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.11	2.51	84.06	0.75
BLE_1M	Ant1	2440	2.10	2.50	84.00	0.76
BLE_1M	Ant1	2480	2.10	2.50	84.00	0.76
BLE_2M	Ant1	2402	1.06	1.88	56.38	2.49
BLE_2M	Ant1	2440	1.06	1.88	56.38	2.49
BLE_2M	Ant1	2480	1.06	1.88	56.38	2.49

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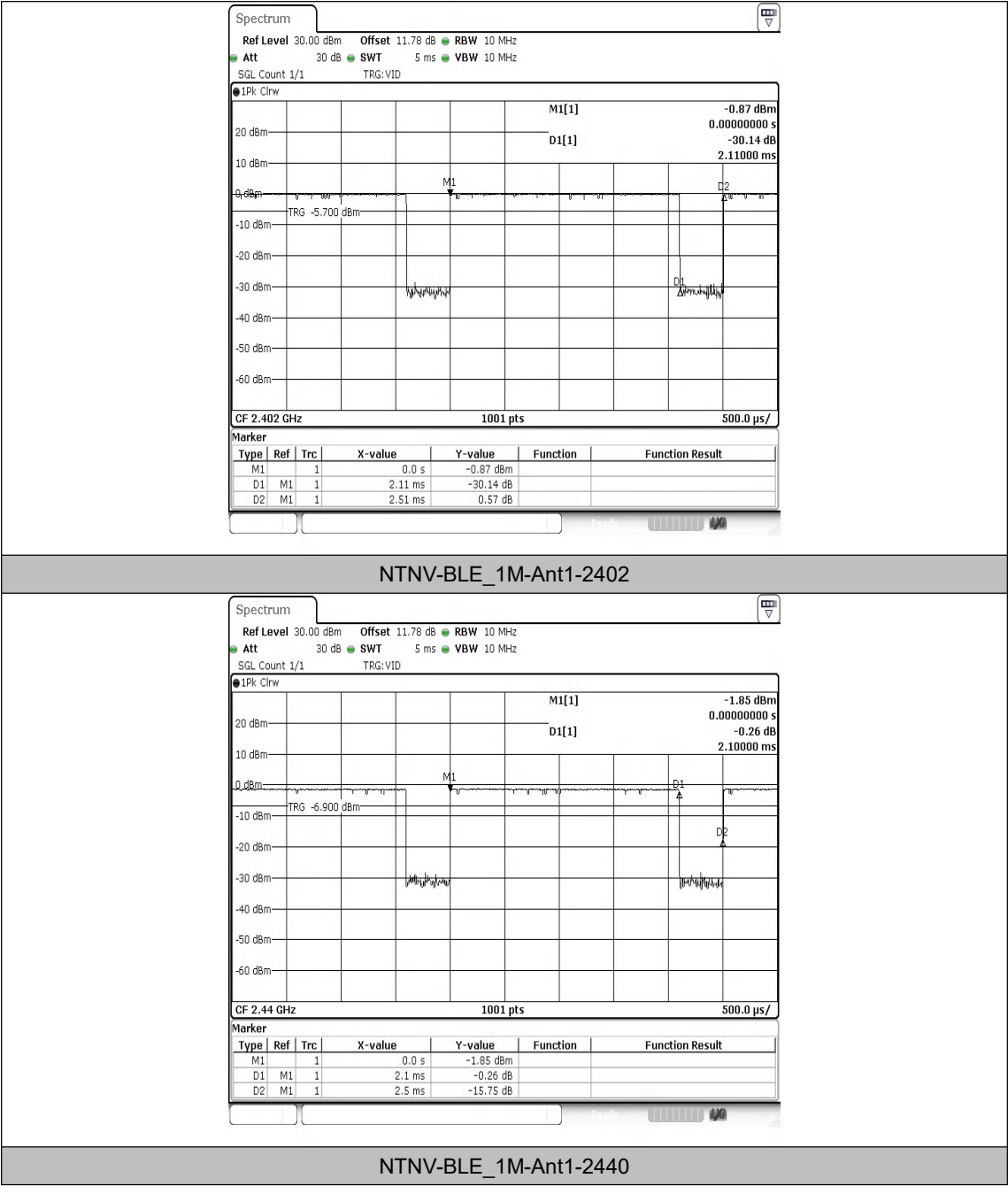
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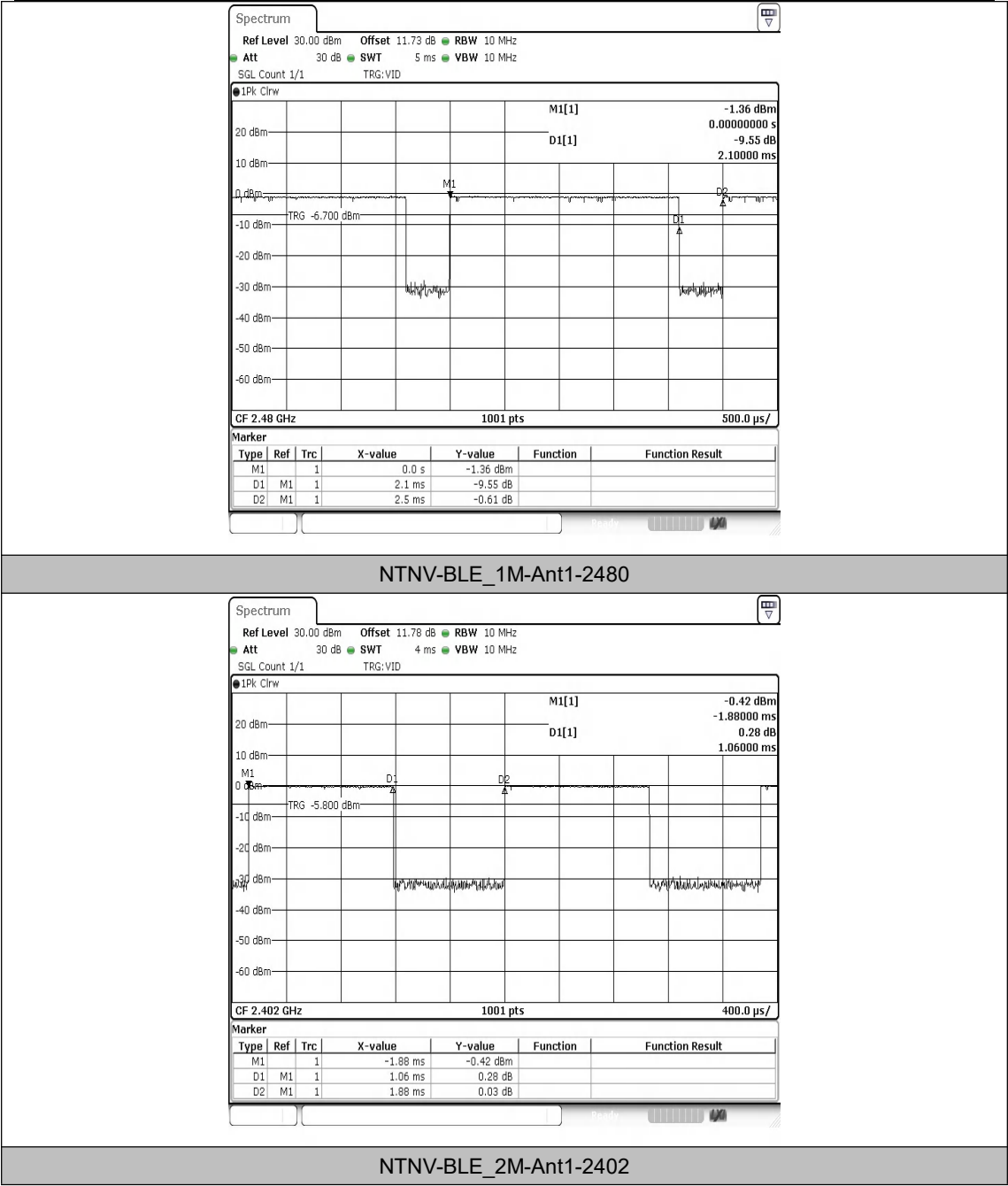


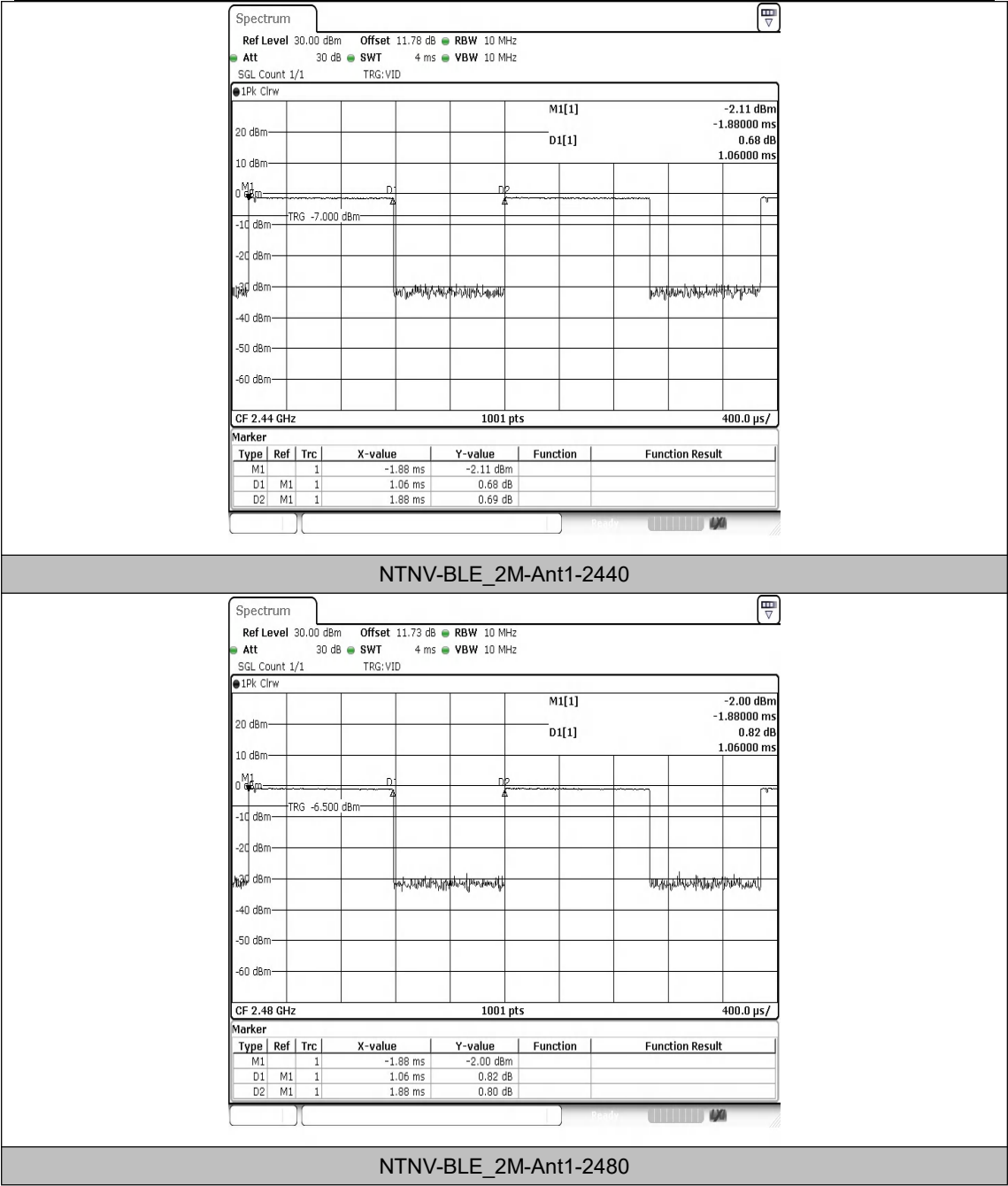
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Test Graphs







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