

Appendix Test Data

Report No.:	1812C50020712501	Test Sample No.:	1-2-2
Start Test Date:	2025.1.15	Finish Test Date:	2025.1.21
Test Engineer:	Hu Sen Guan	Auditor:	Justin Feng
Temperature:	22.3°C	Relative Humidity:	40%
Pressure:	101kPa		

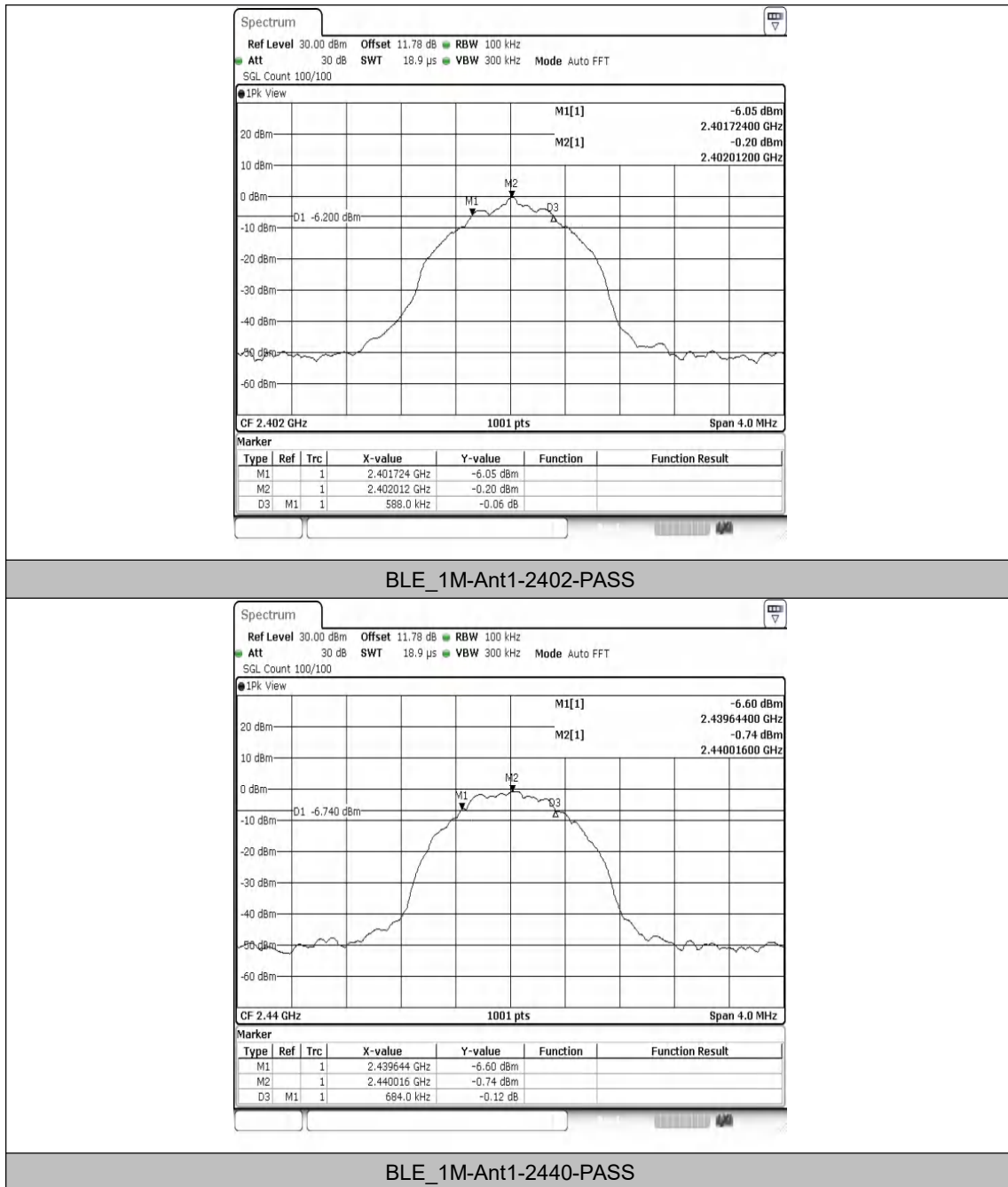
Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.59	2401.72	2402.31	0.5	PASS
BLE_1M	Ant1	2440	0.68	2439.64	2440.33	0.5	PASS
BLE_1M	Ant1	2480	0.60	2479.72	2480.32	0.5	PASS
BLE_2M	Ant1	2402	1.05	2401.48	2402.53	0.5	PASS
BLE_2M	Ant1	2440	1.05	2439.48	2440.53	0.5	PASS
BLE_2M	Ant1	2480	1.27	2479.34	2480.61	0.5	PASS



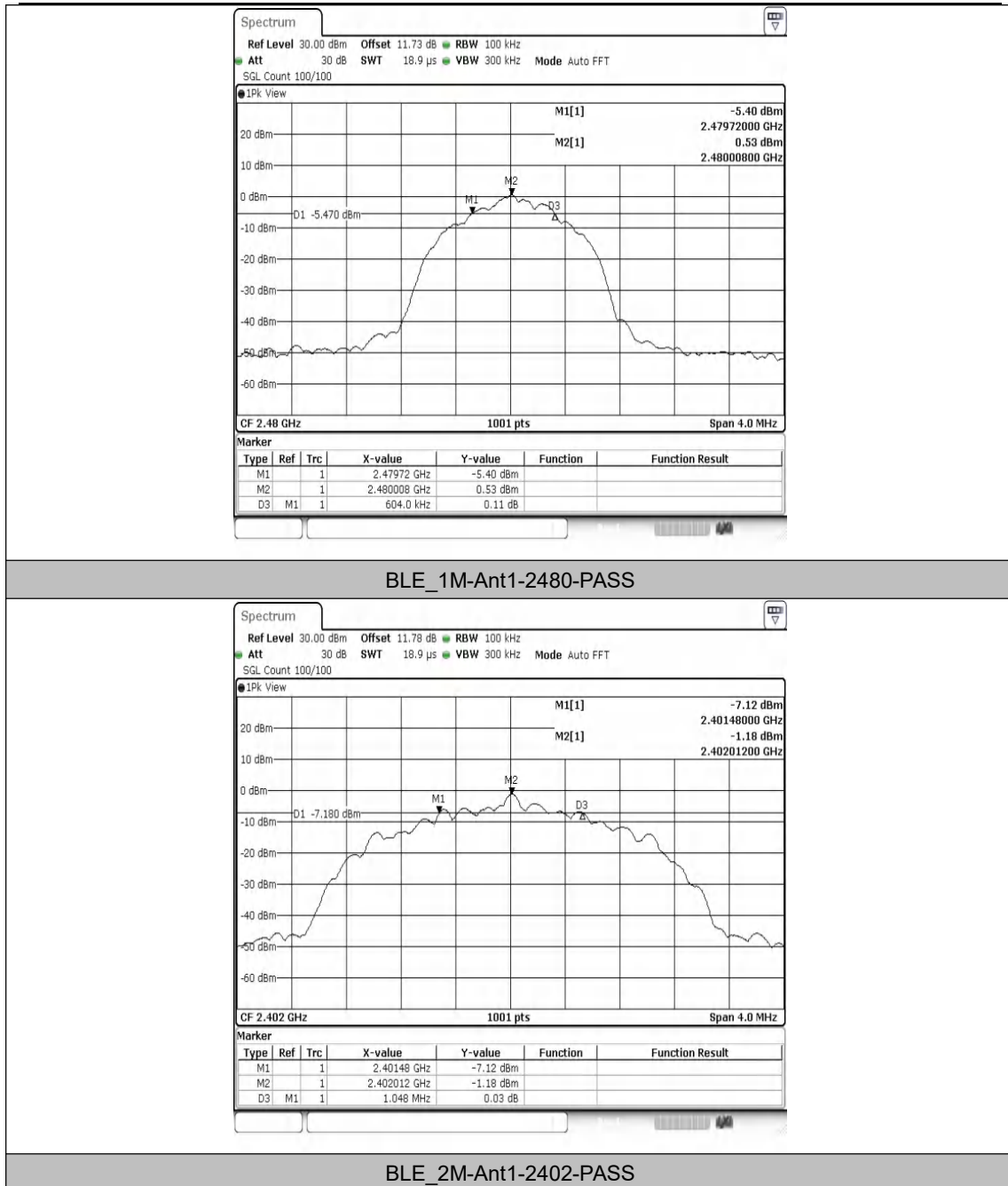
Test Graphs

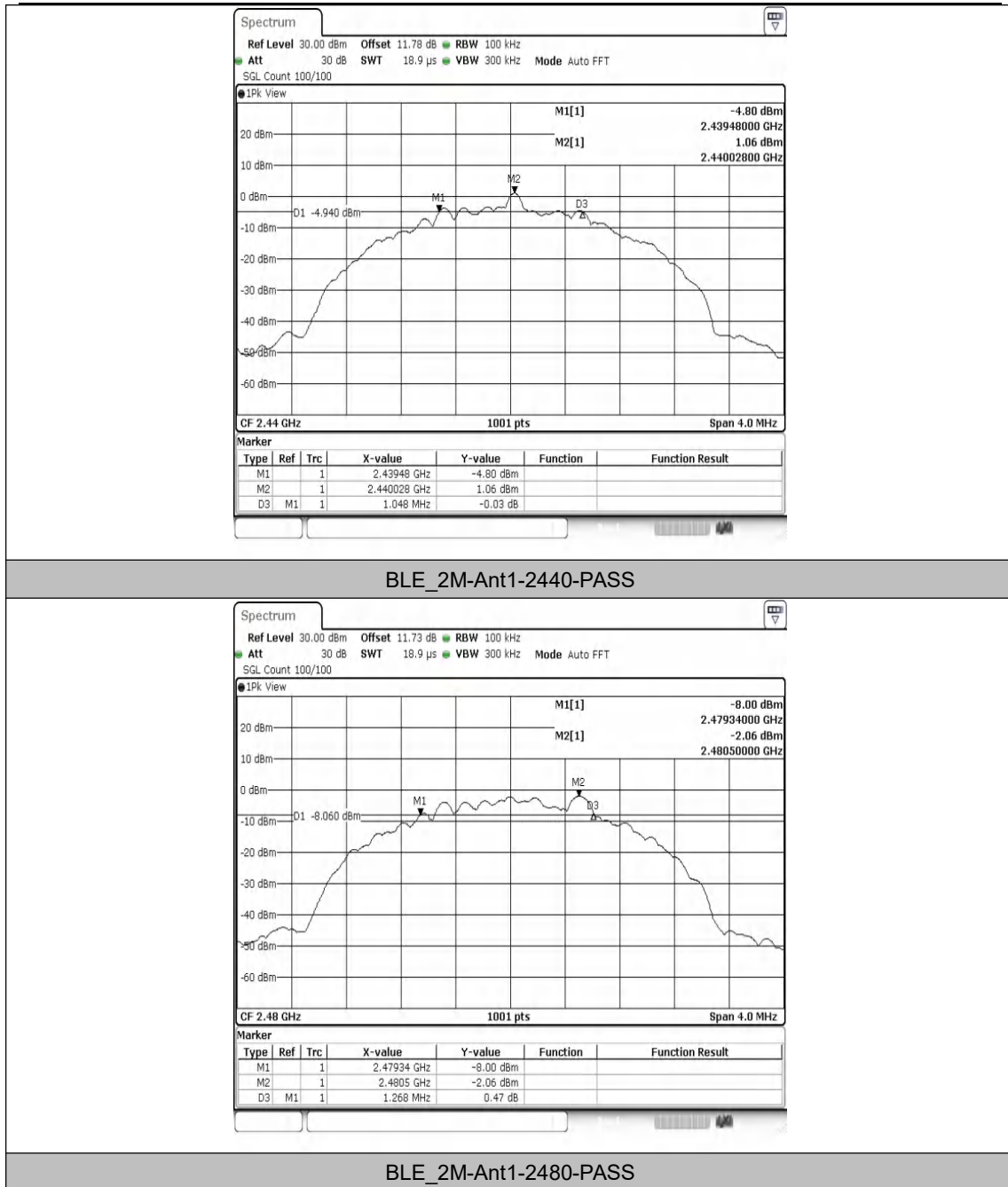


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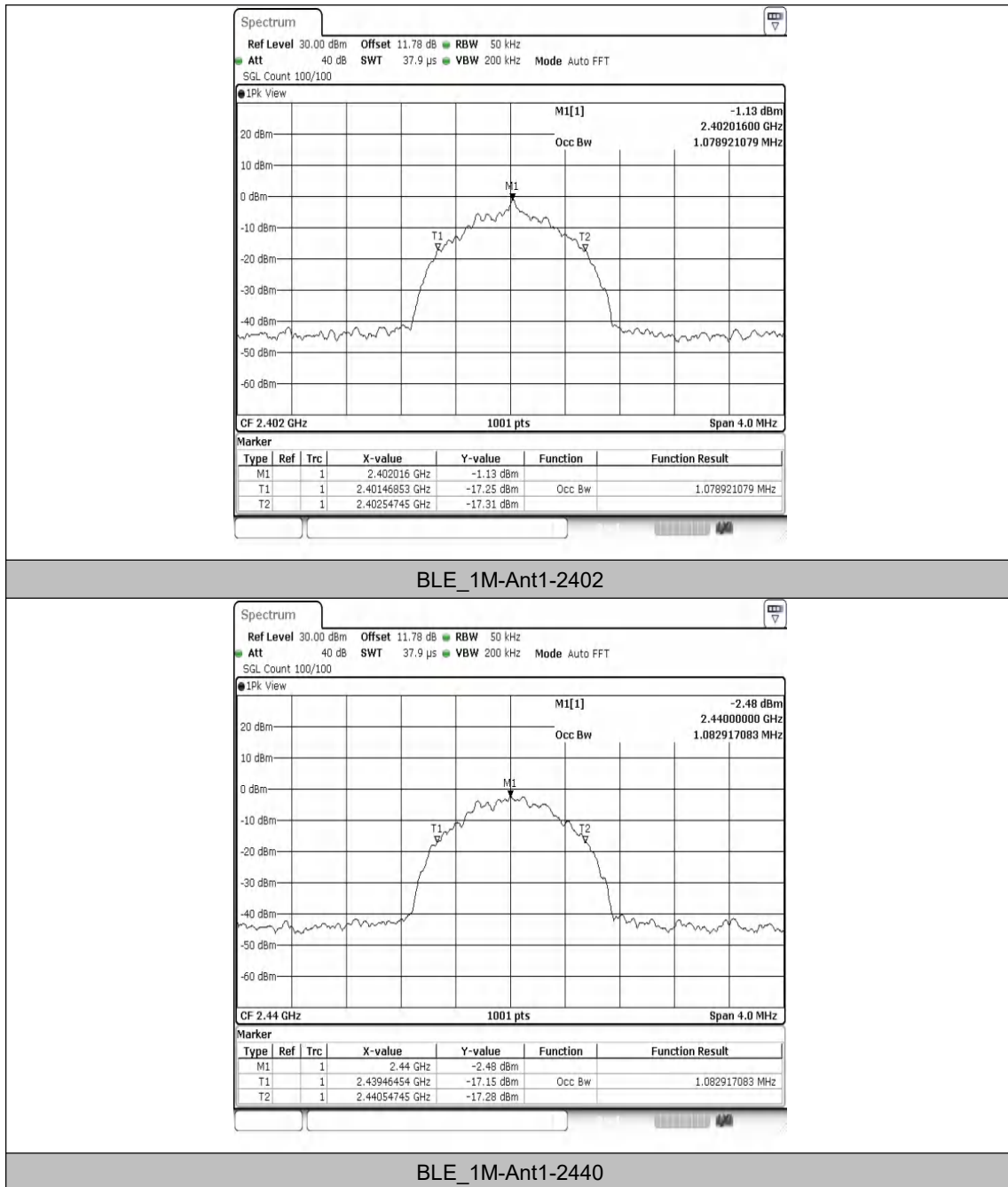


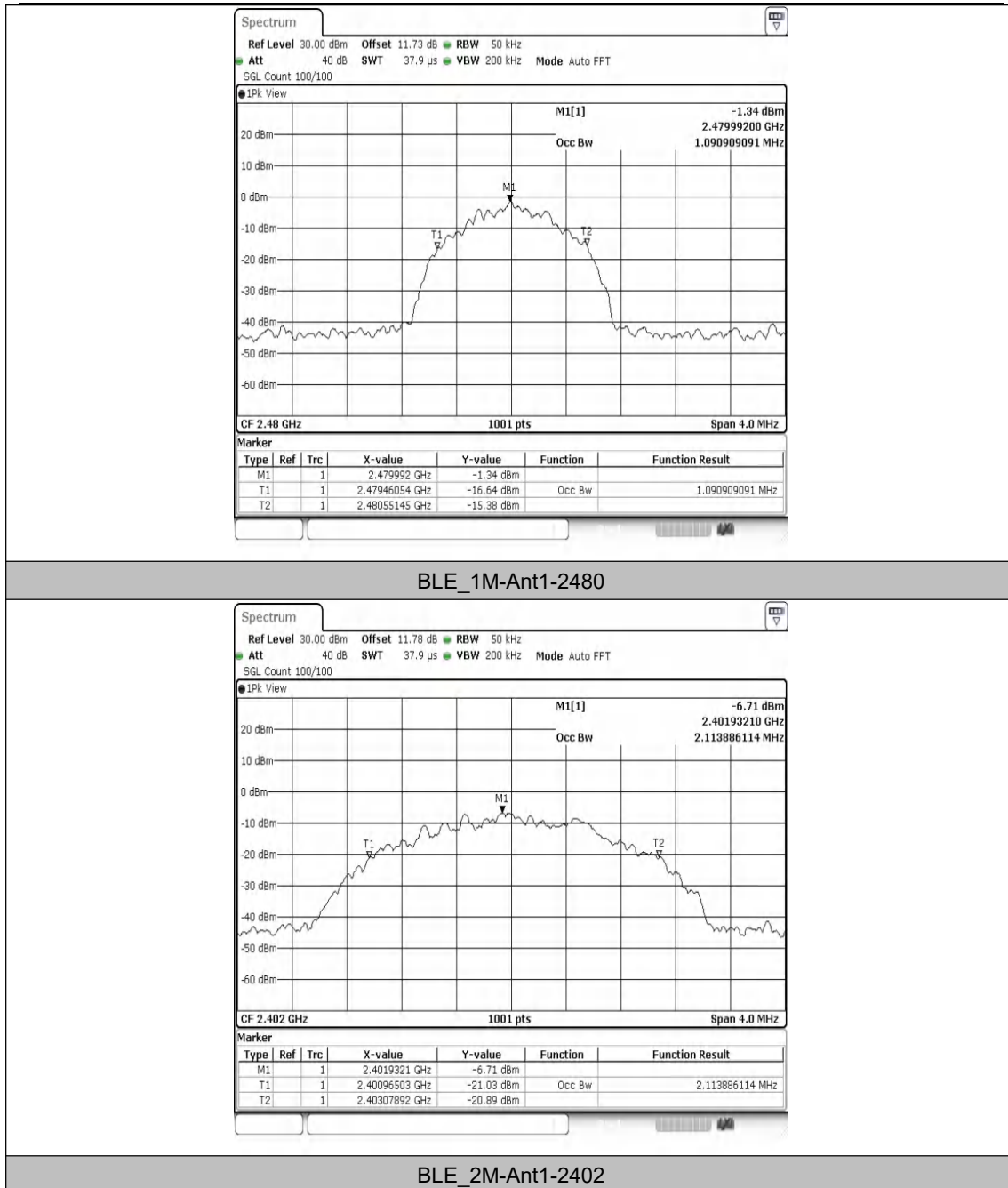
Appendix B: 99% Occupied Bandwidth

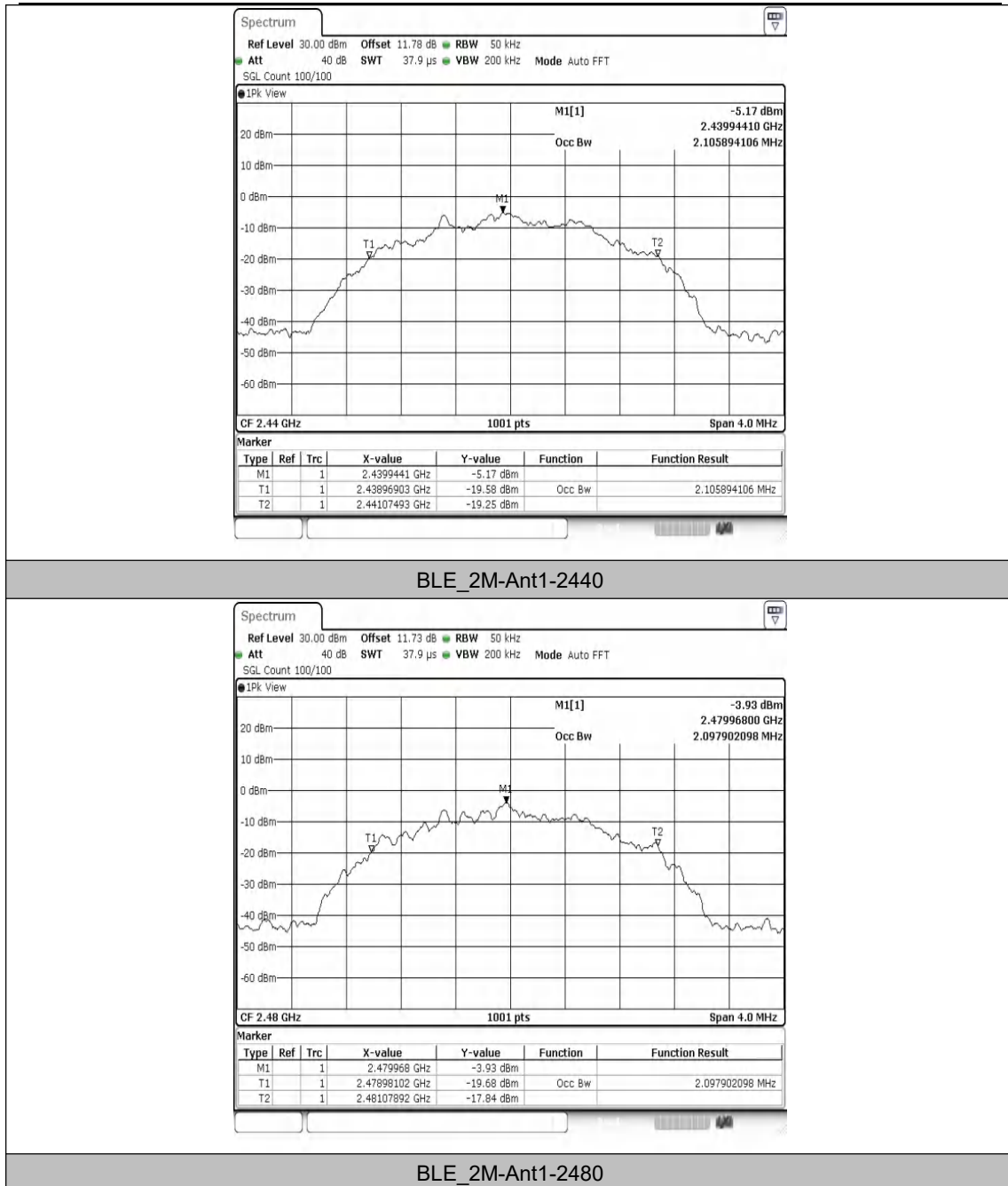
Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.079	2401.4685	2402.5475	---	---
BLE_1M	Ant1	2440	1.083	2439.4645	2440.5475	---	---
BLE_1M	Ant1	2480	1.091	2479.4605	2480.5514	---	---
BLE_2M	Ant1	2402	2.114	2400.9650	2403.0789	---	---
BLE_2M	Ant1	2440	2.106	2438.9690	2441.0749	---	---
BLE_2M	Ant1	2480	2.098	2478.9810	2481.0789	---	---

Test Graphs





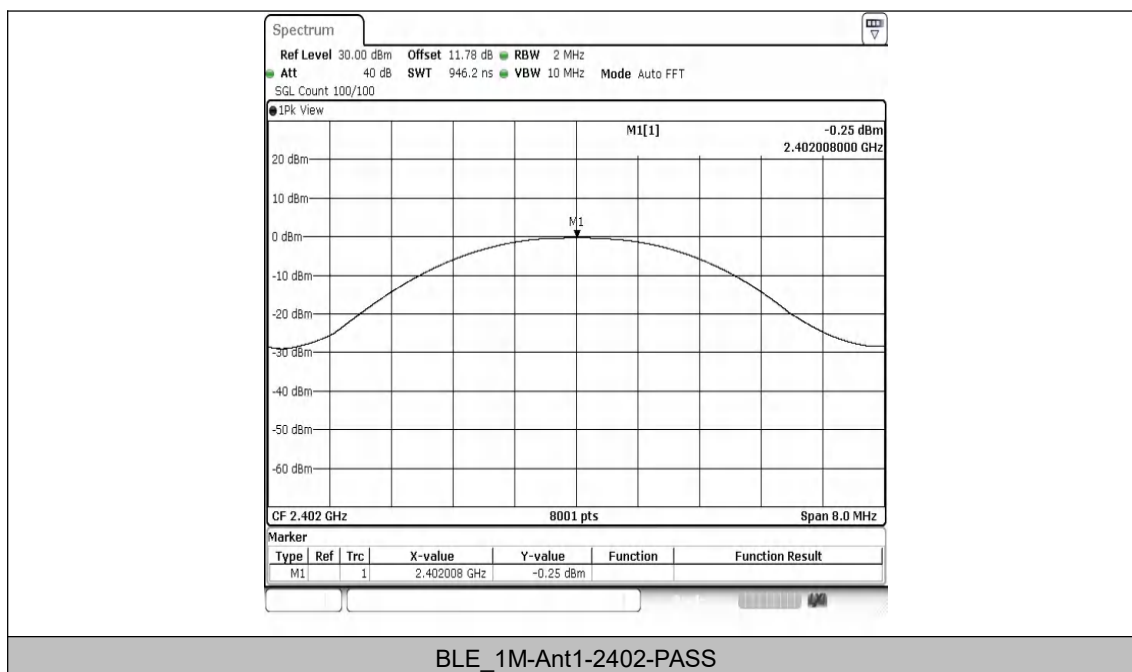


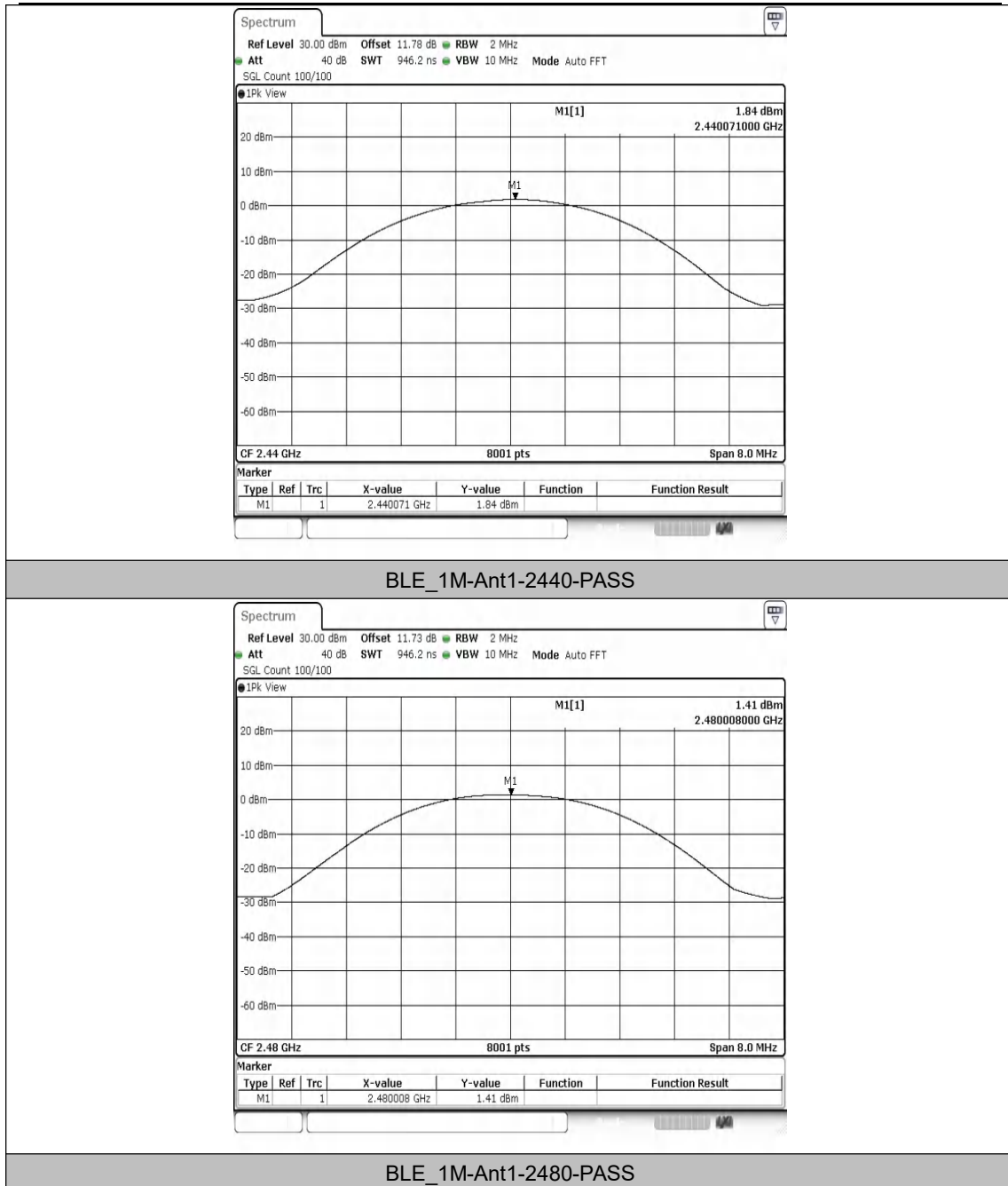
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.25	≤30	PASS
BLE_1M	Ant1	2440	1.84	≤30	PASS
BLE_1M	Ant1	2480	1.41	≤30	PASS
BLE_2M	Ant1	2402	-0.27	≤30	PASS
BLE_2M	Ant1	2440	1.44	≤30	PASS
BLE_2M	Ant1	2480	1.33	≤30	PASS

Test Graphs Peak

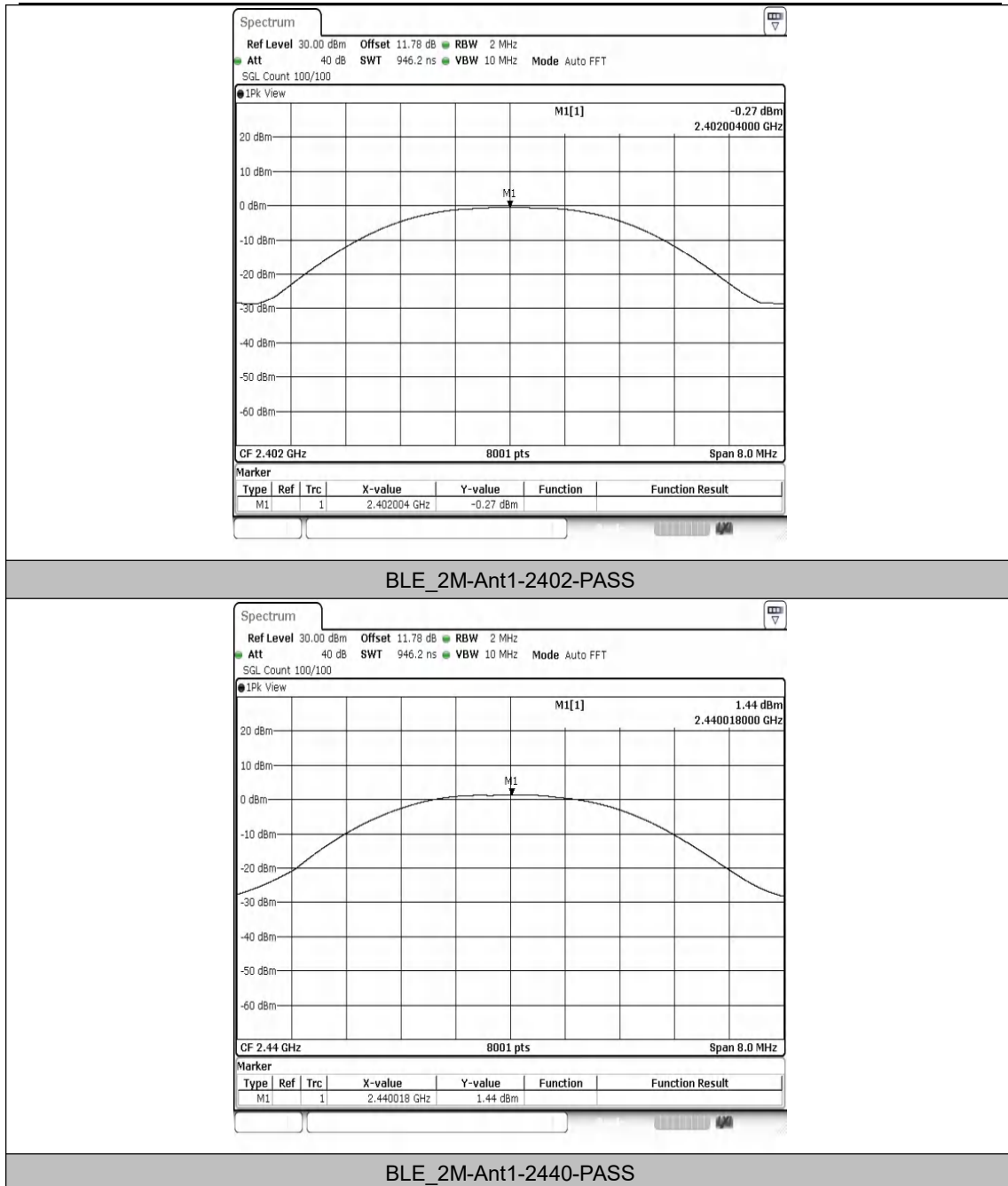




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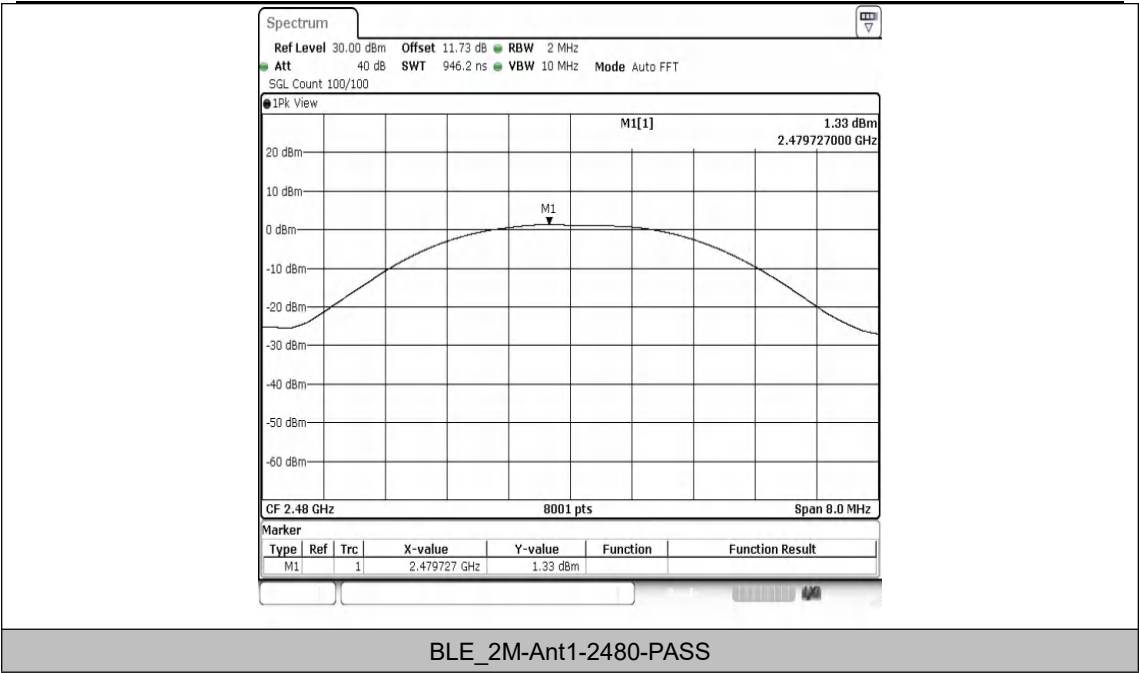
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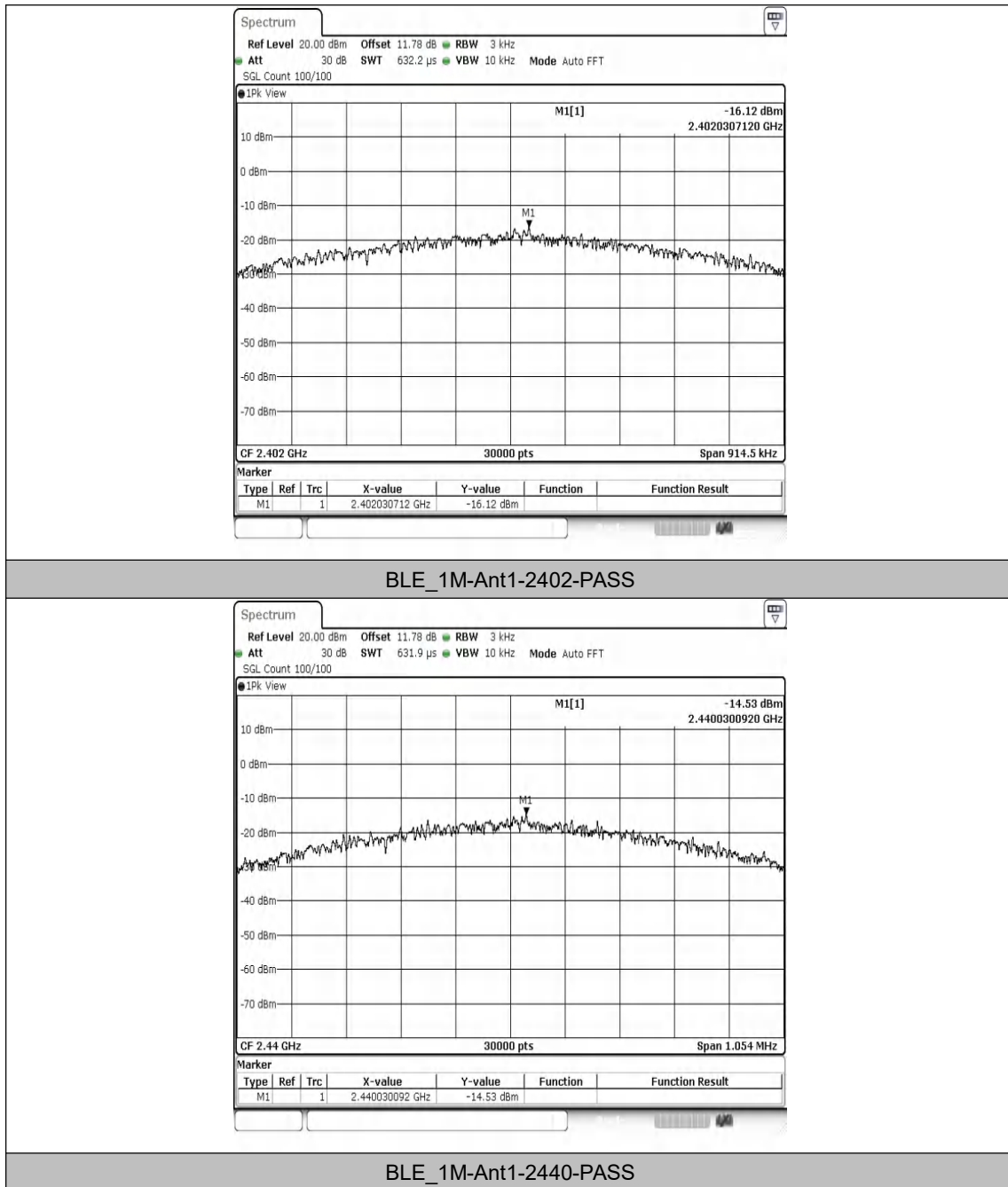
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.12	≤8.00	PASS
BLE_1M	Ant1	2440	-14.53	≤8.00	PASS
BLE_1M	Ant1	2480	-14.82	≤8.00	PASS
BLE_2M	Ant1	2402	-17.80	≤8.00	PASS
BLE_2M	Ant1	2440	-16.21	≤8.00	PASS
BLE_2M	Ant1	2480	-16.28	≤8.00	PASS

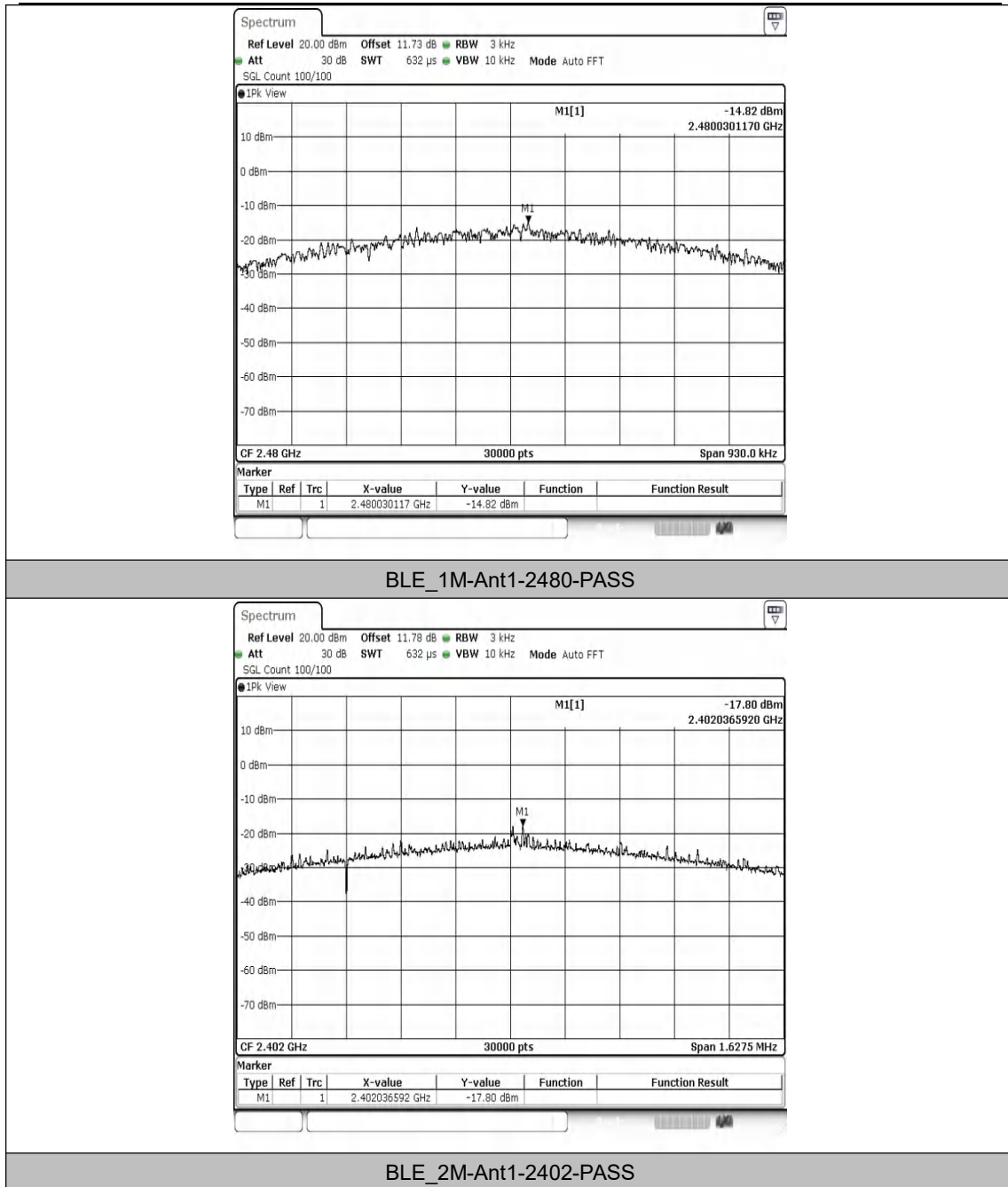
Test Graphs



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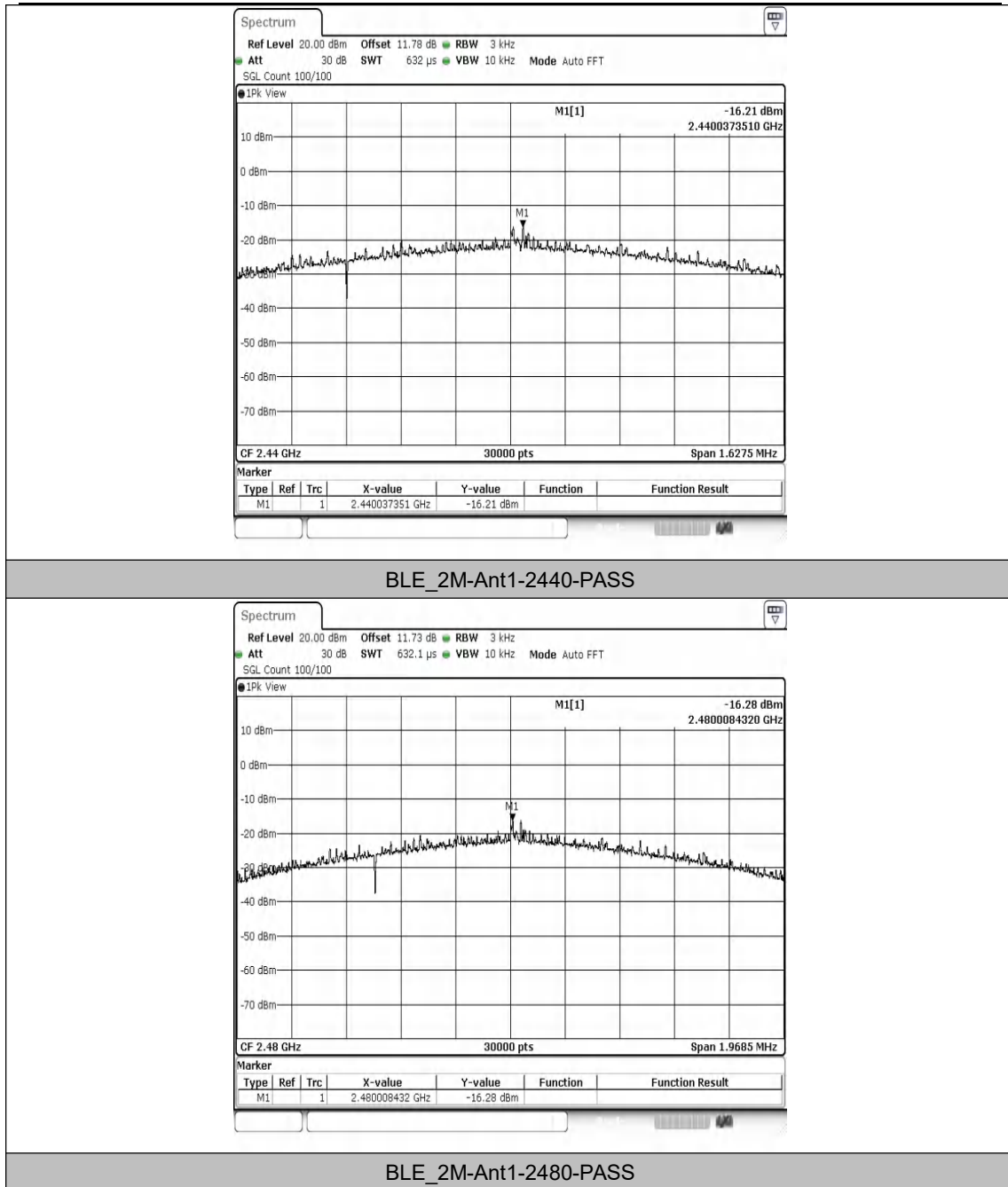
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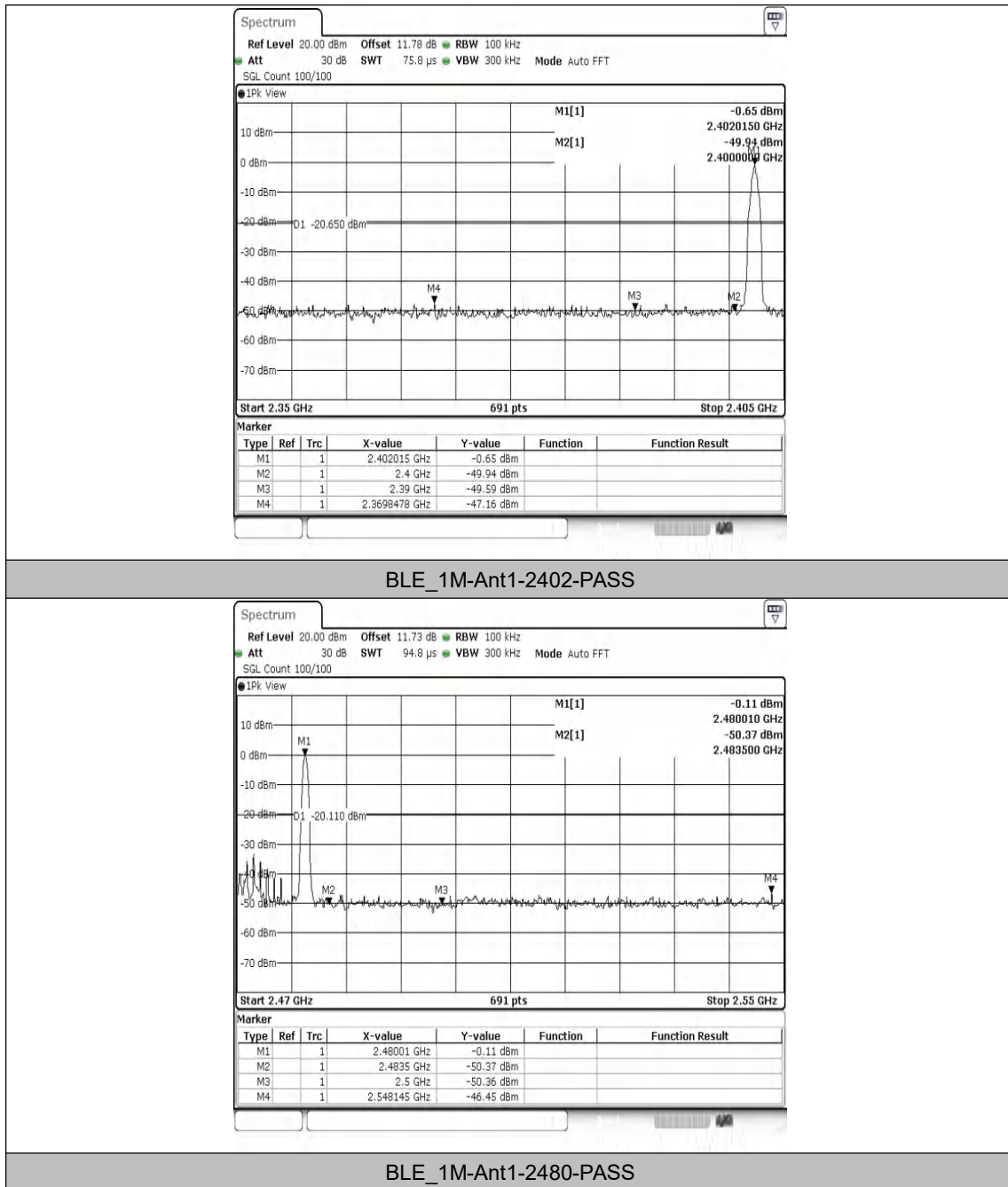
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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.65	-47.16	≤-20.65	PASS
BLE_1M	Ant1	High	2480	-0.11	-46.45	≤-20.11	PASS
BLE_2M	Ant1	Low	2402	-0.31	-47.19	≤-20.31	PASS
BLE_2M	Ant1	High	2480	0.10	-46.96	≤-19.9	PASS

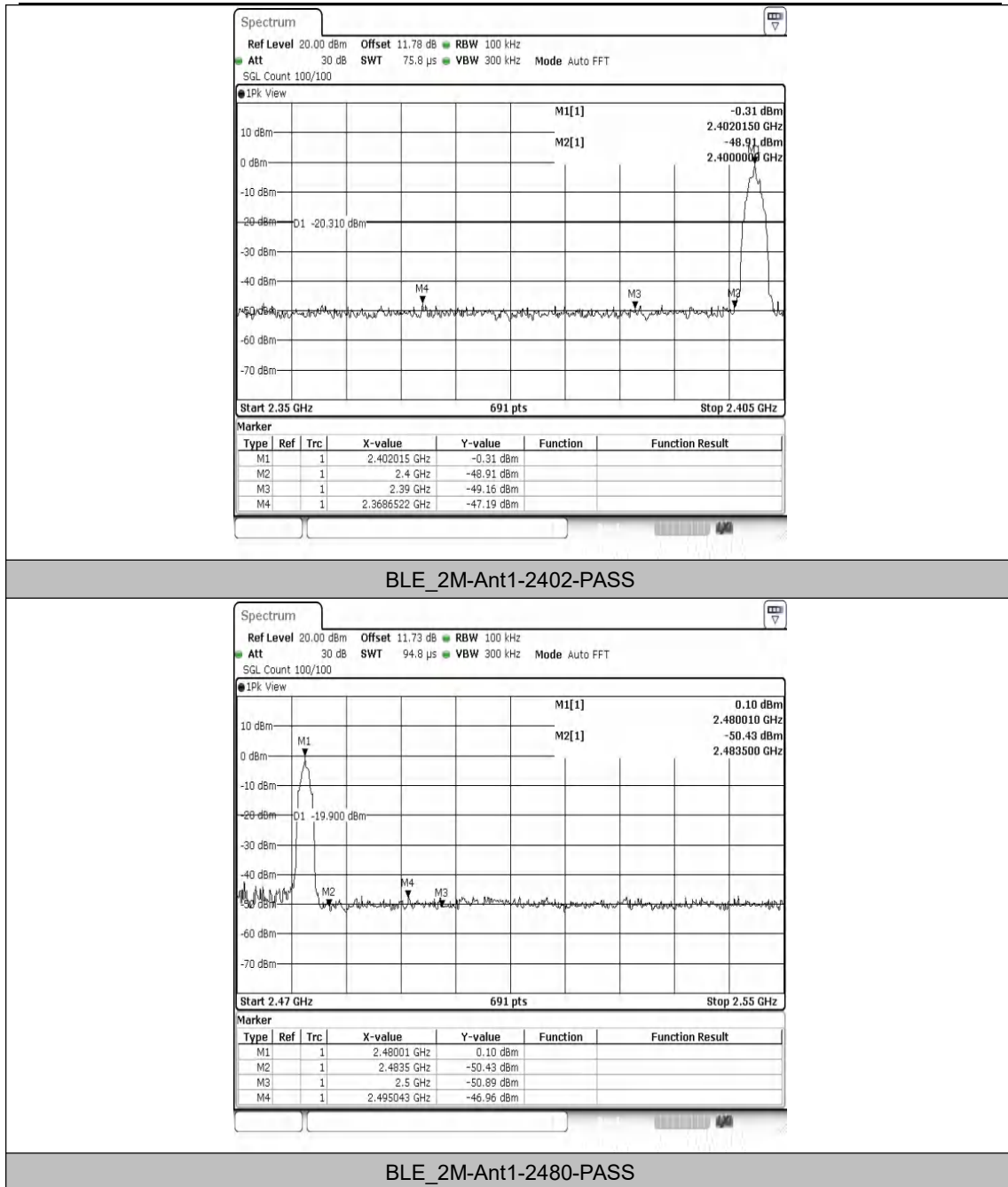
Test Graphs



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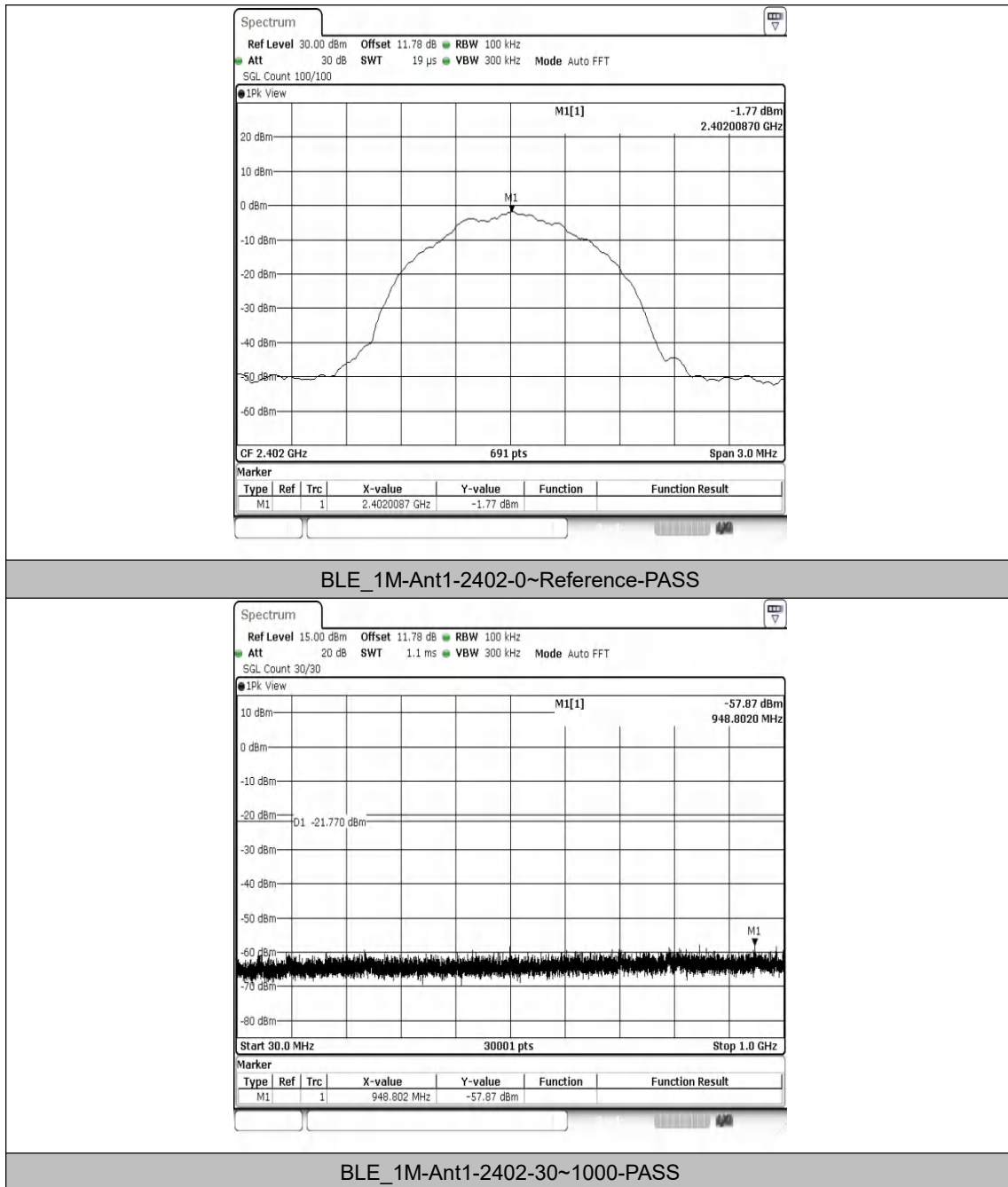
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-1.77	-1.77	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.77	-57.87	≤-21.77	PASS
BLE_1M	Ant1	2402	1000~26500	-1.77	-44.34	≤-21.77	PASS
BLE_1M	Ant1	2440	0~Reference	-0.29	-0.29	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.29	-57.5	≤-20.29	PASS
BLE_1M	Ant1	2440	1000~26500	-0.29	-43.81	≤-20.29	PASS
BLE_1M	Ant1	2480	0~Reference	-0.11	-0.11	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.11	-57.65	≤-20.11	PASS
BLE_1M	Ant1	2480	1000~26500	-0.11	-43.68	≤-20.11	PASS
BLE_2M	Ant1	2402	0~Reference	-0.36	-0.36	---	PASS
BLE_2M	Ant1	2402	30~1000	-0.36	-57.68	≤-20.36	PASS
BLE_2M	Ant1	2402	1000~26500	-0.36	-43.58	≤-20.36	PASS
BLE_2M	Ant1	2440	0~Reference	-2.35	-2.35	---	PASS
BLE_2M	Ant1	2440	30~1000	-2.35	-58.09	≤-22.35	PASS
BLE_2M	Ant1	2440	1000~26500	-2.35	-43.31	≤-22.35	PASS
BLE_2M	Ant1	2480	0~Reference	-0.08	-0.08	---	PASS
BLE_2M	Ant1	2480	30~1000	-0.08	-58.64	≤-20.08	PASS
BLE_2M	Ant1	2480	1000~26500	-0.08	-44.21	≤-20.08	PASS



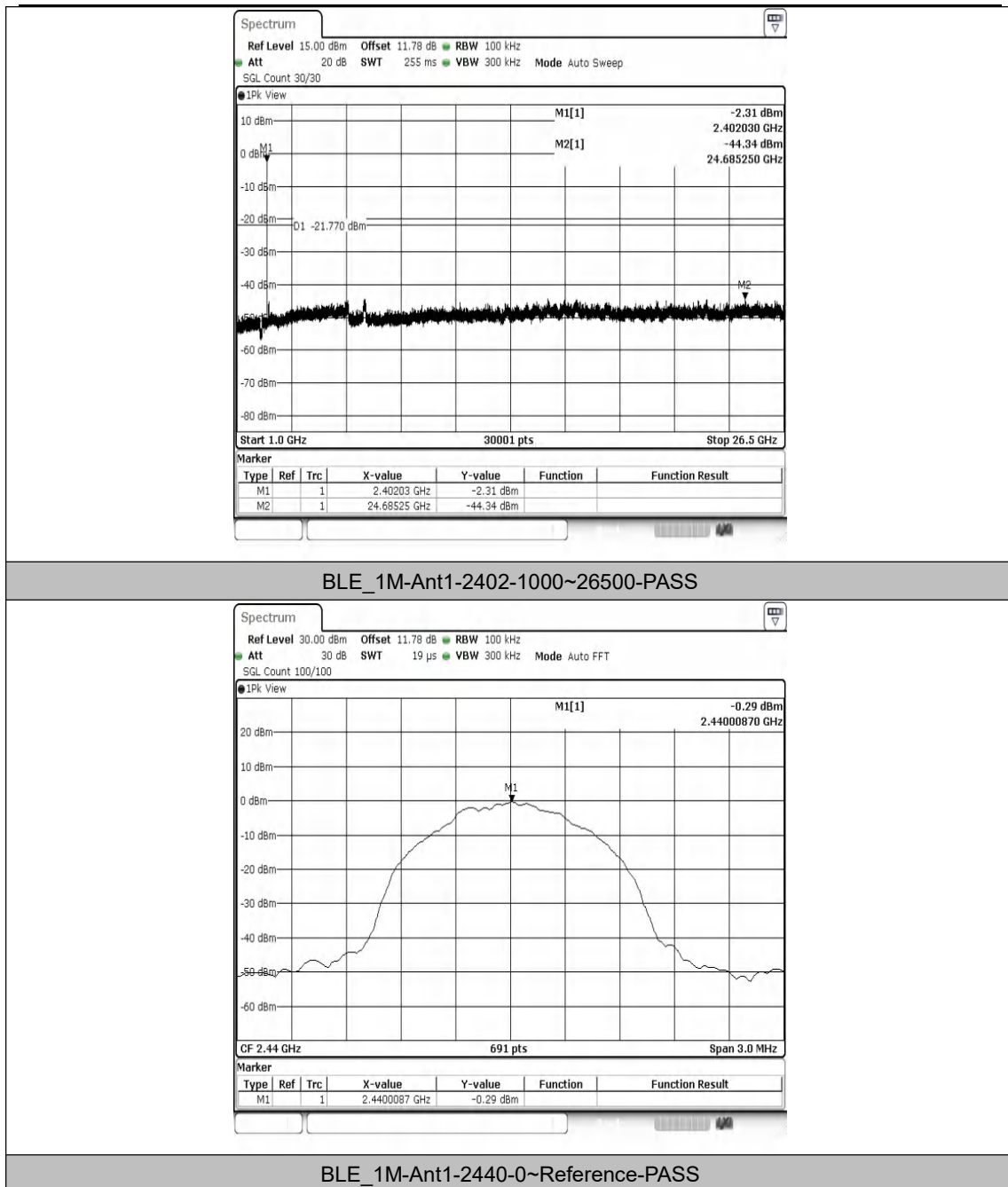
Test Graphs



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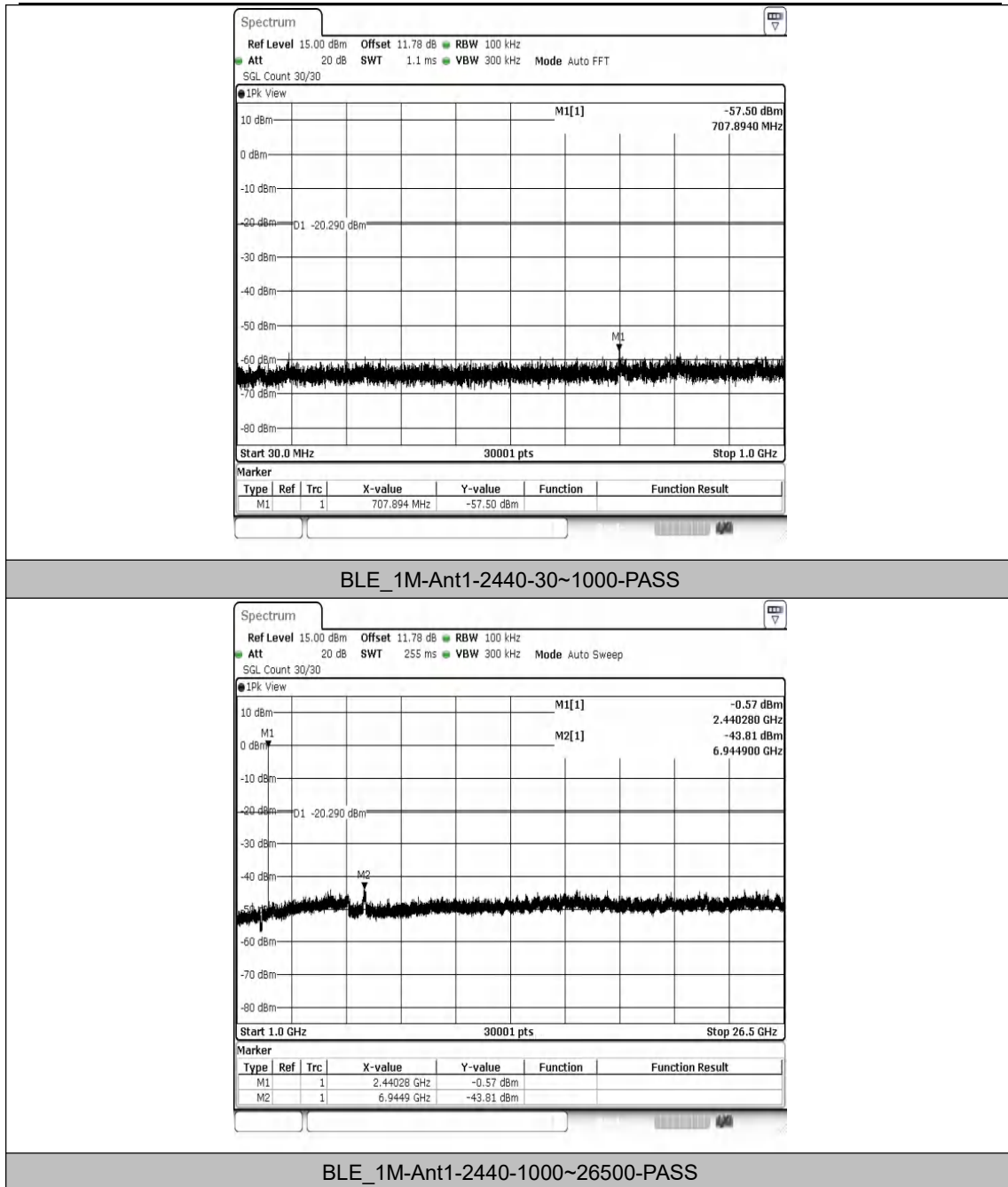
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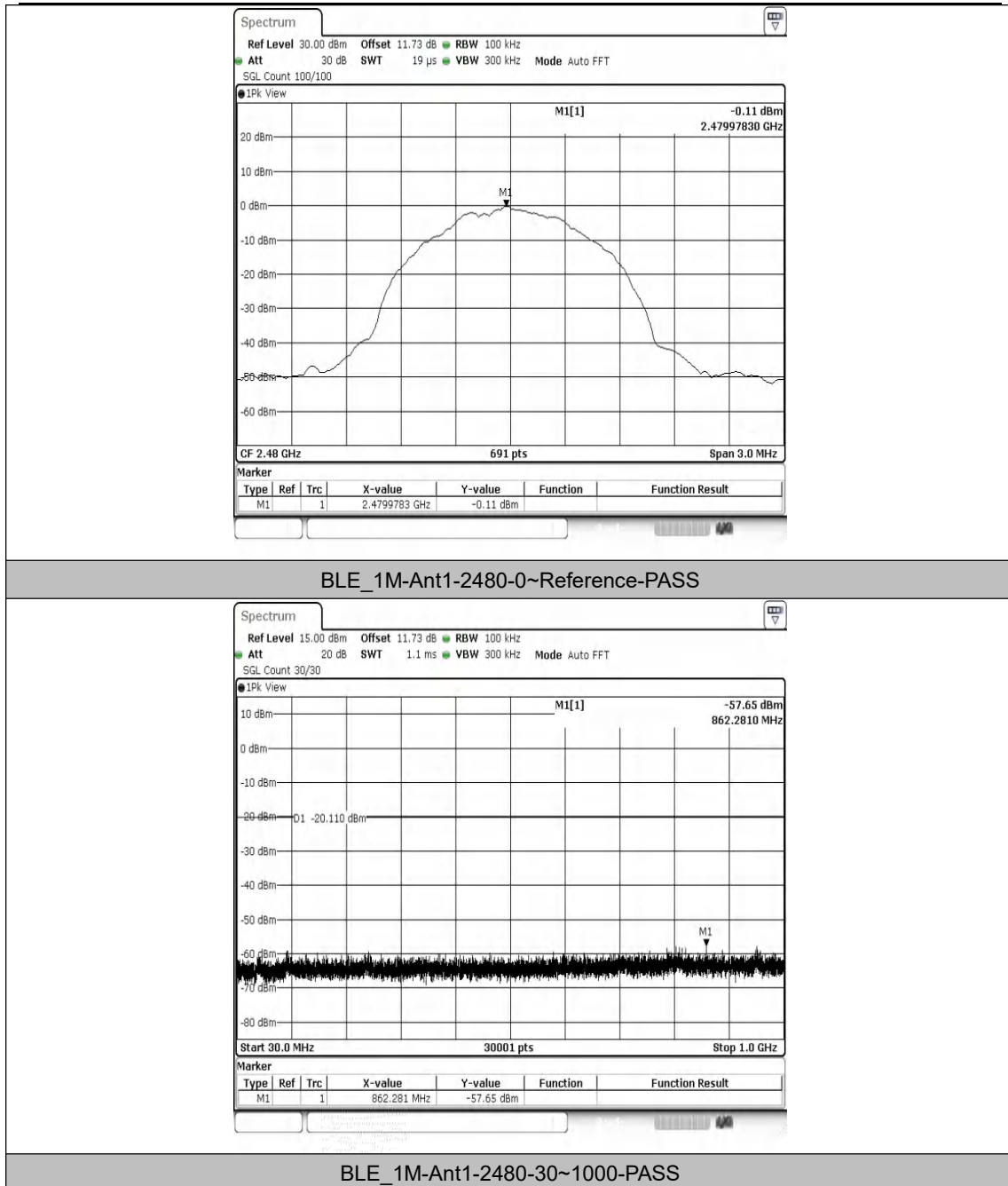


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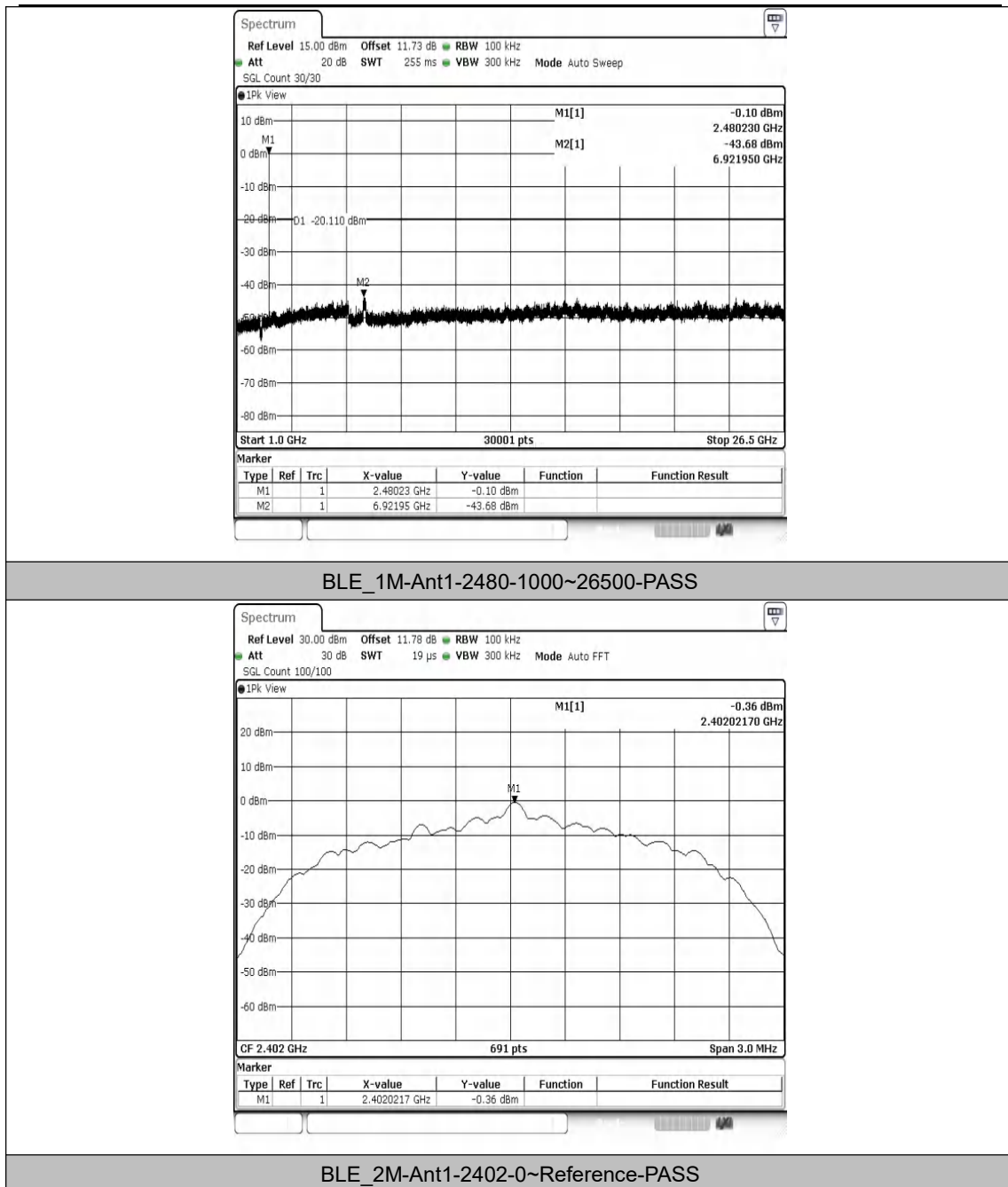




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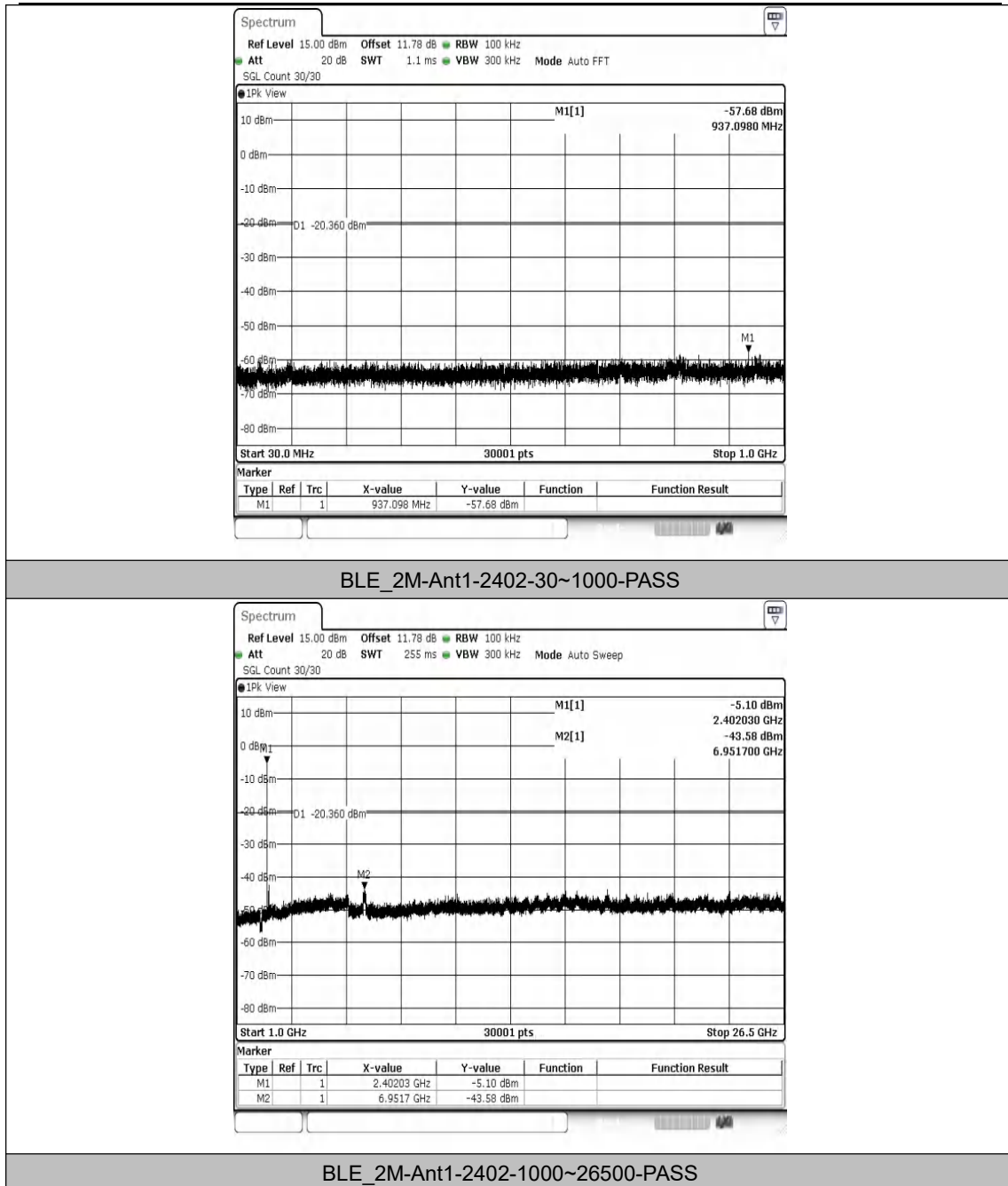
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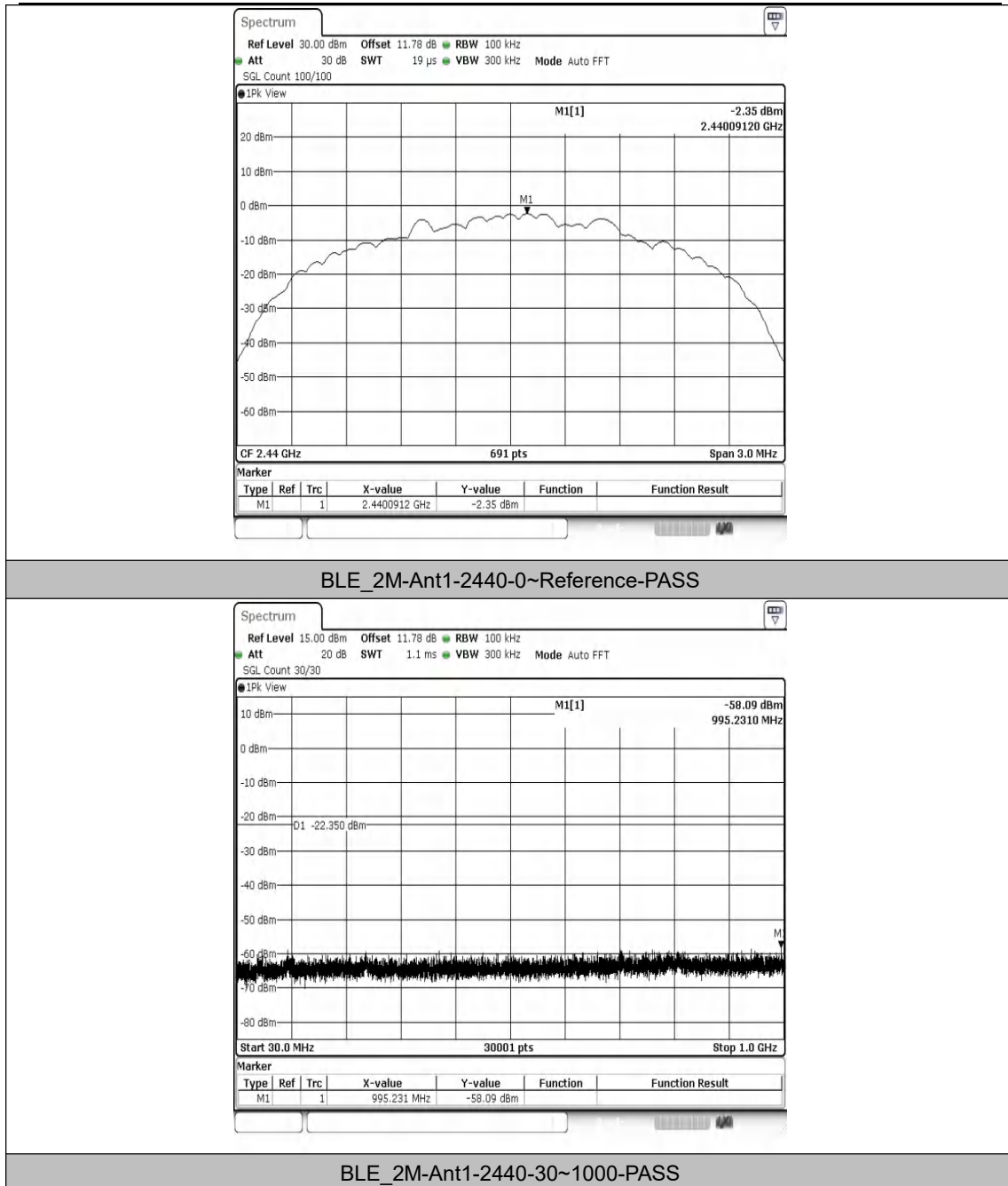
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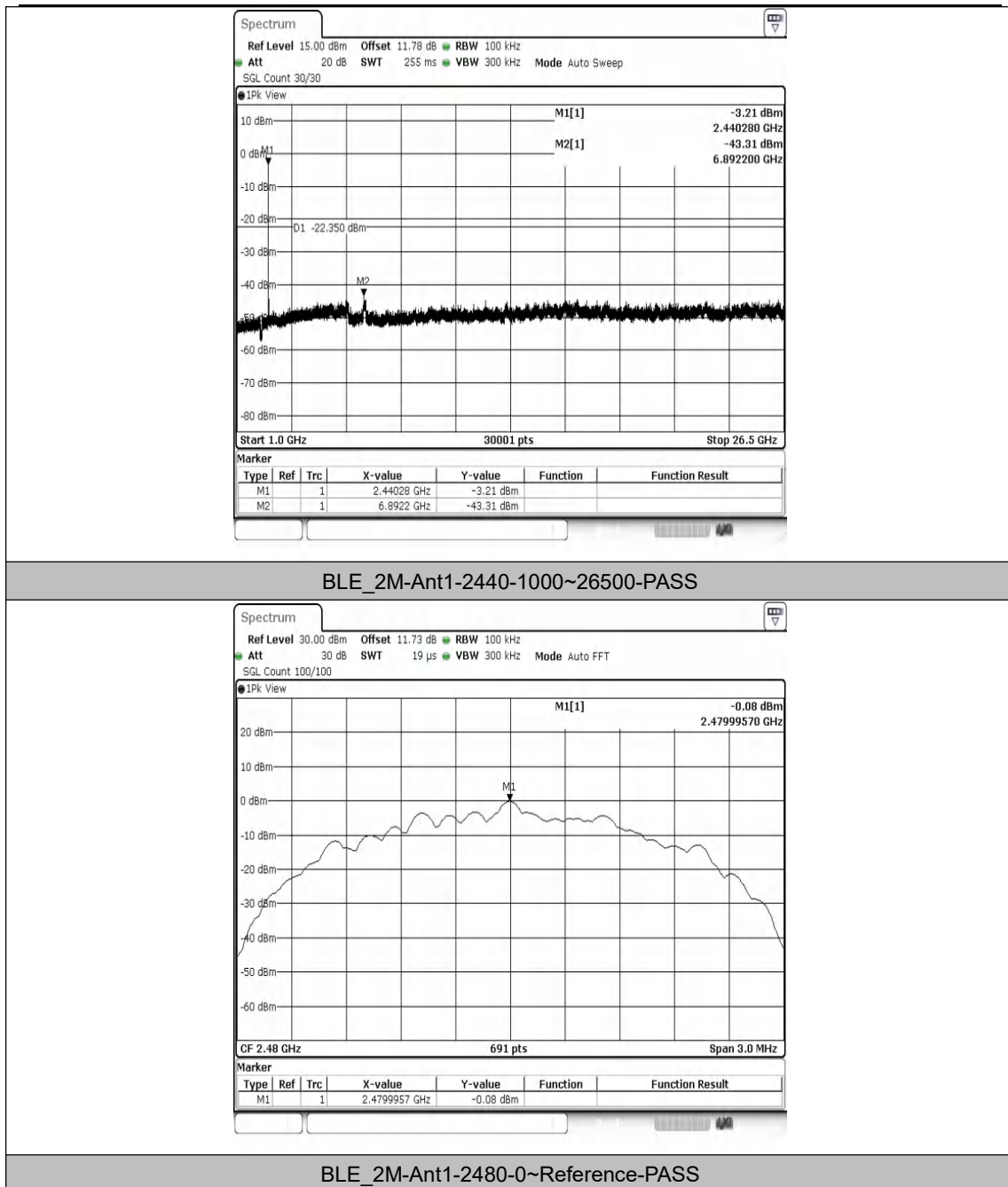
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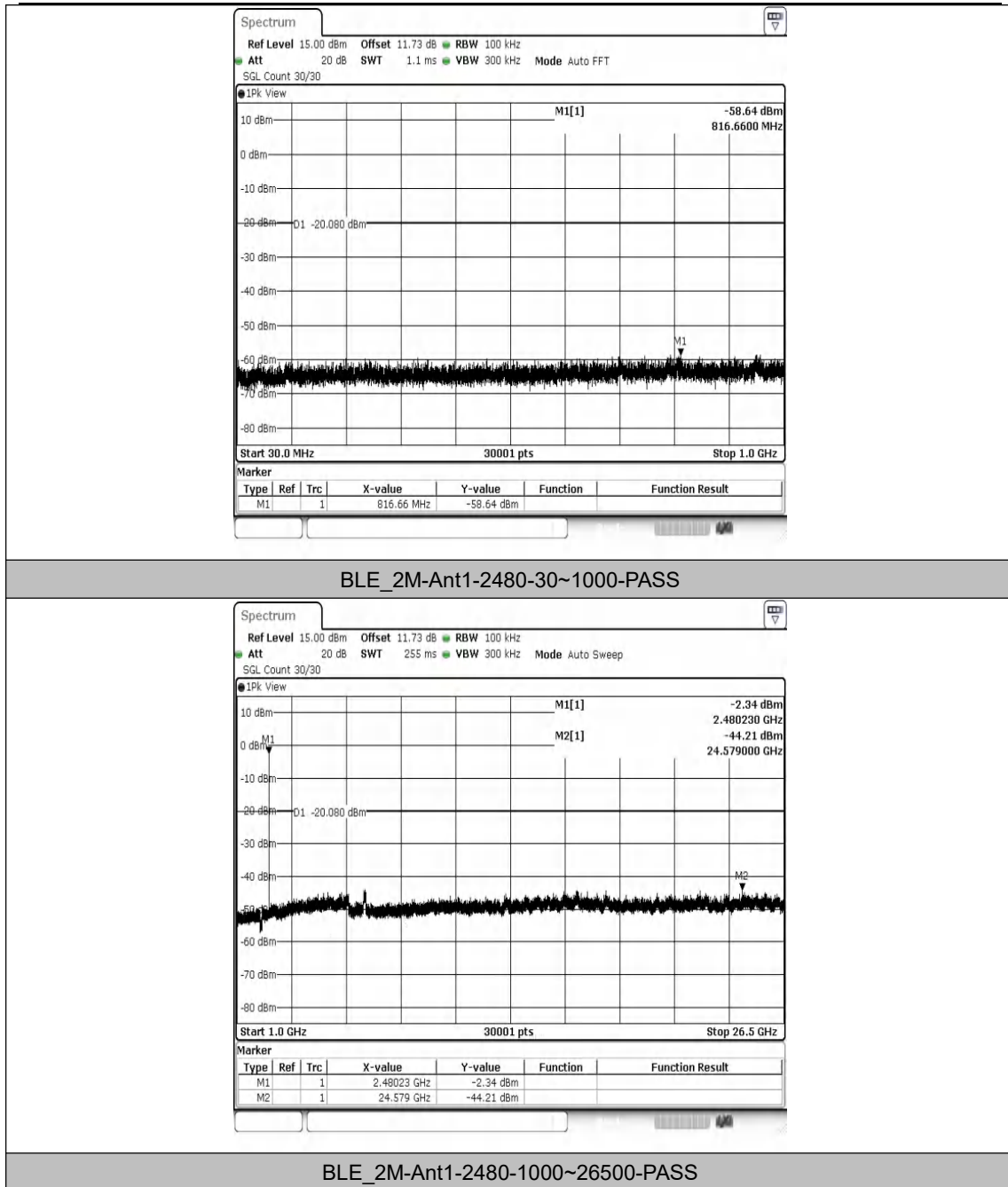
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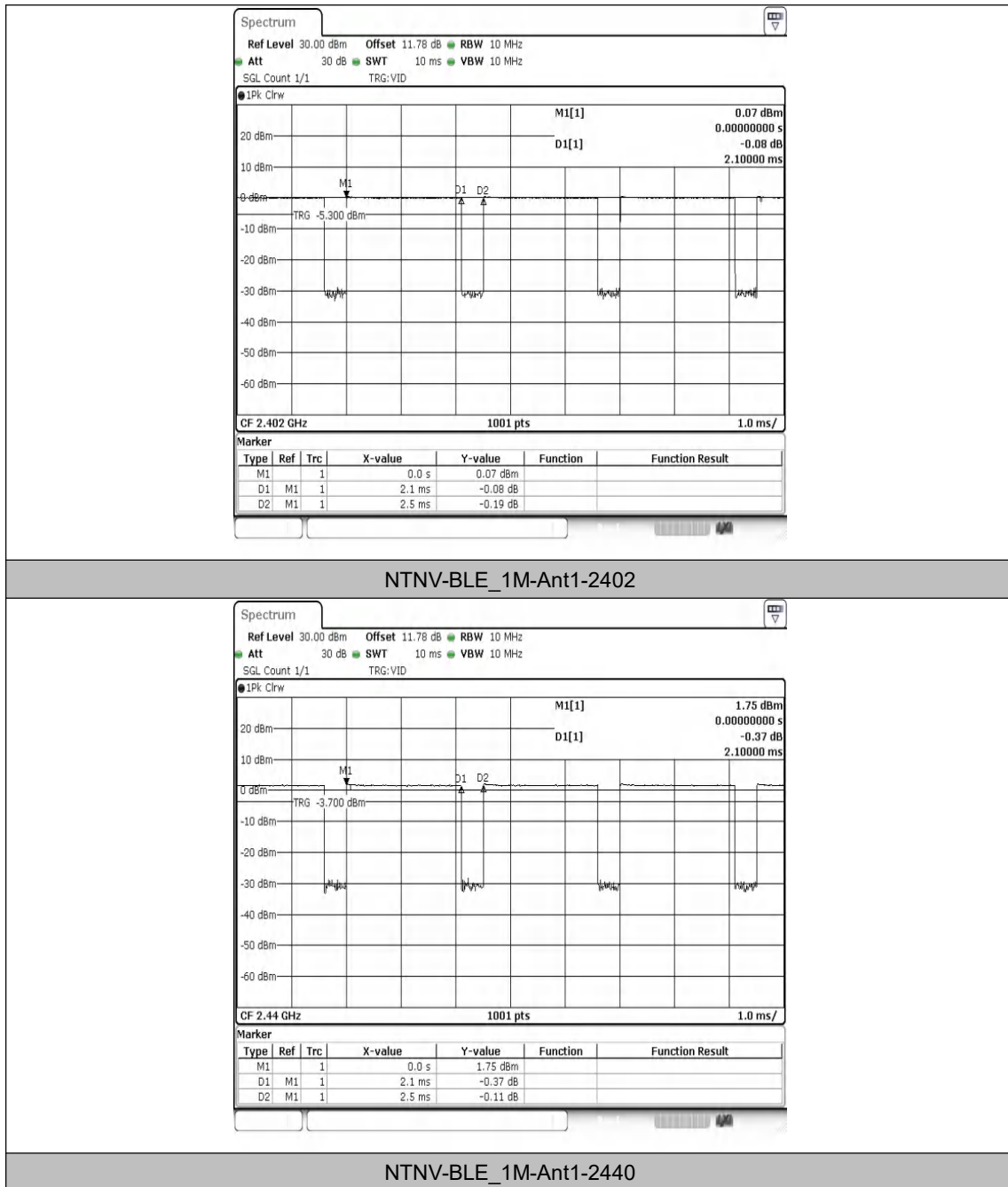
Appendix G: Duty Cycle

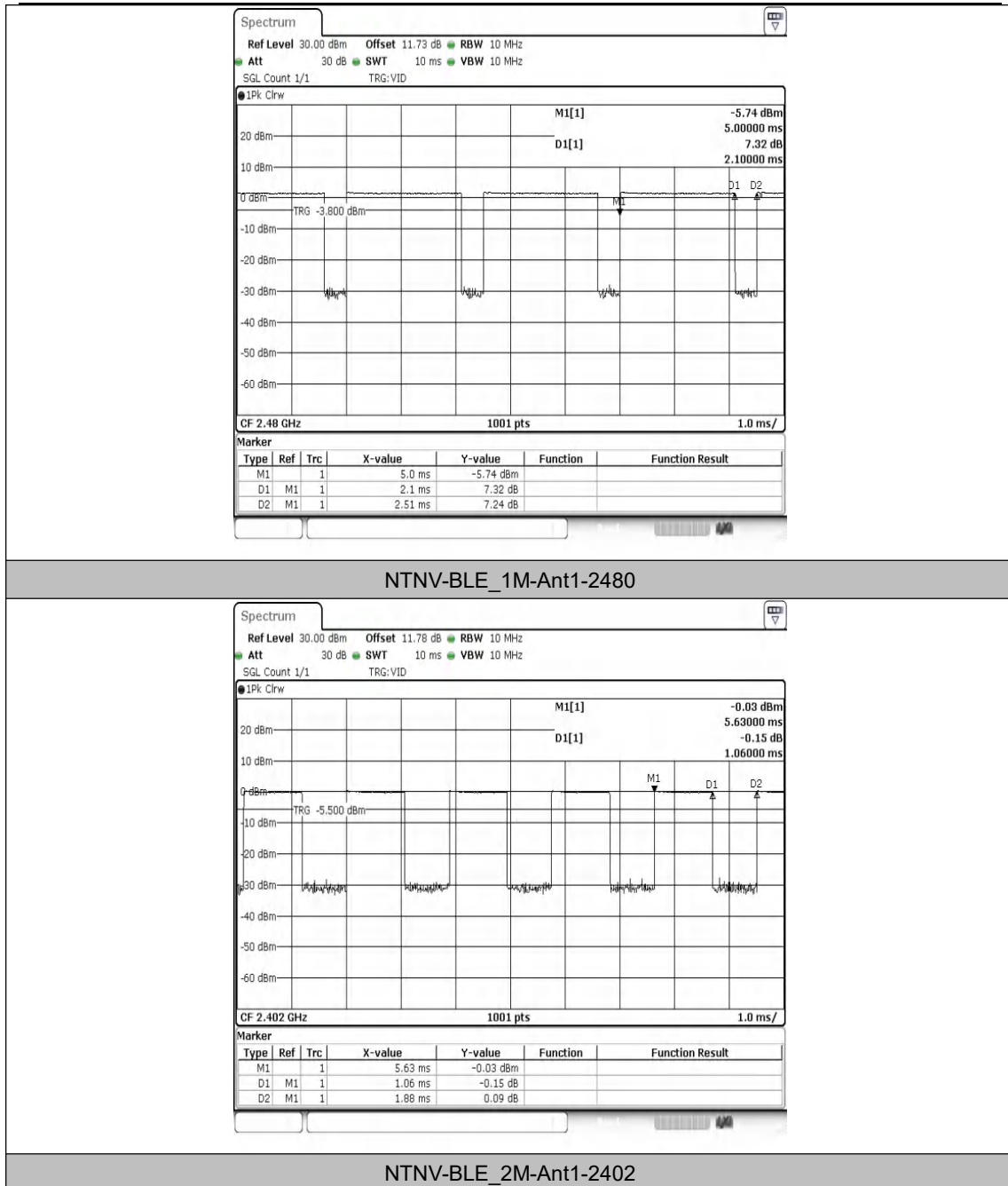
Test Result

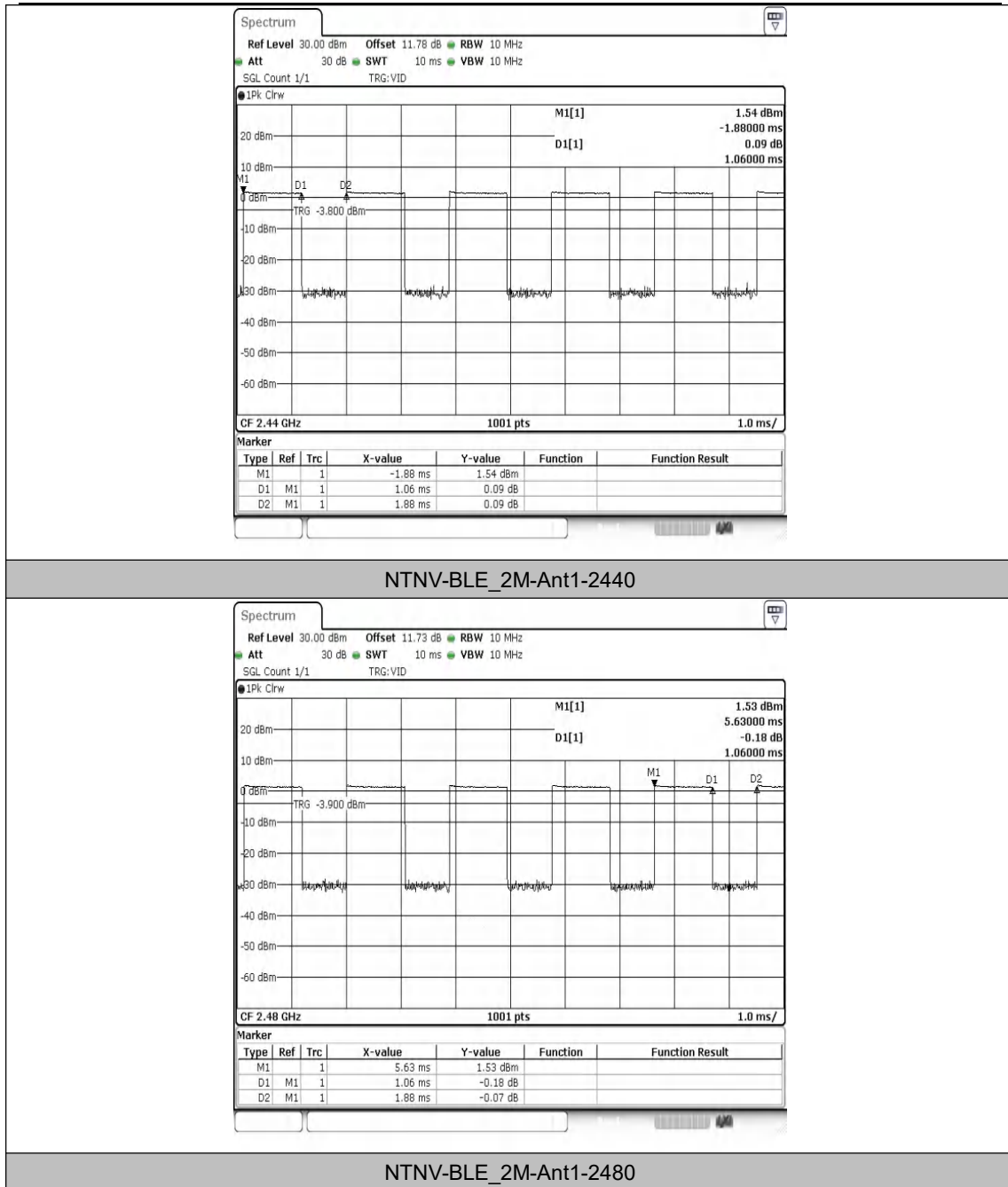
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.10	2.50	84.00	0.76
BLE_1M	Ant1	2440	2.10	2.50	84.00	0.76
BLE_1M	Ant1	2480	2.10	2.51	83.67	0.77
BLE_2M	Ant1	2402	1.06	1.88	56.38	2.49
BLE_2M	Ant1	2440	1.06	1.88	56.38	2.49
BLE_2M	Ant1	2480	1.06	1.88	56.38	2.49



Test Graphs







---End---