

Appendix Test Data

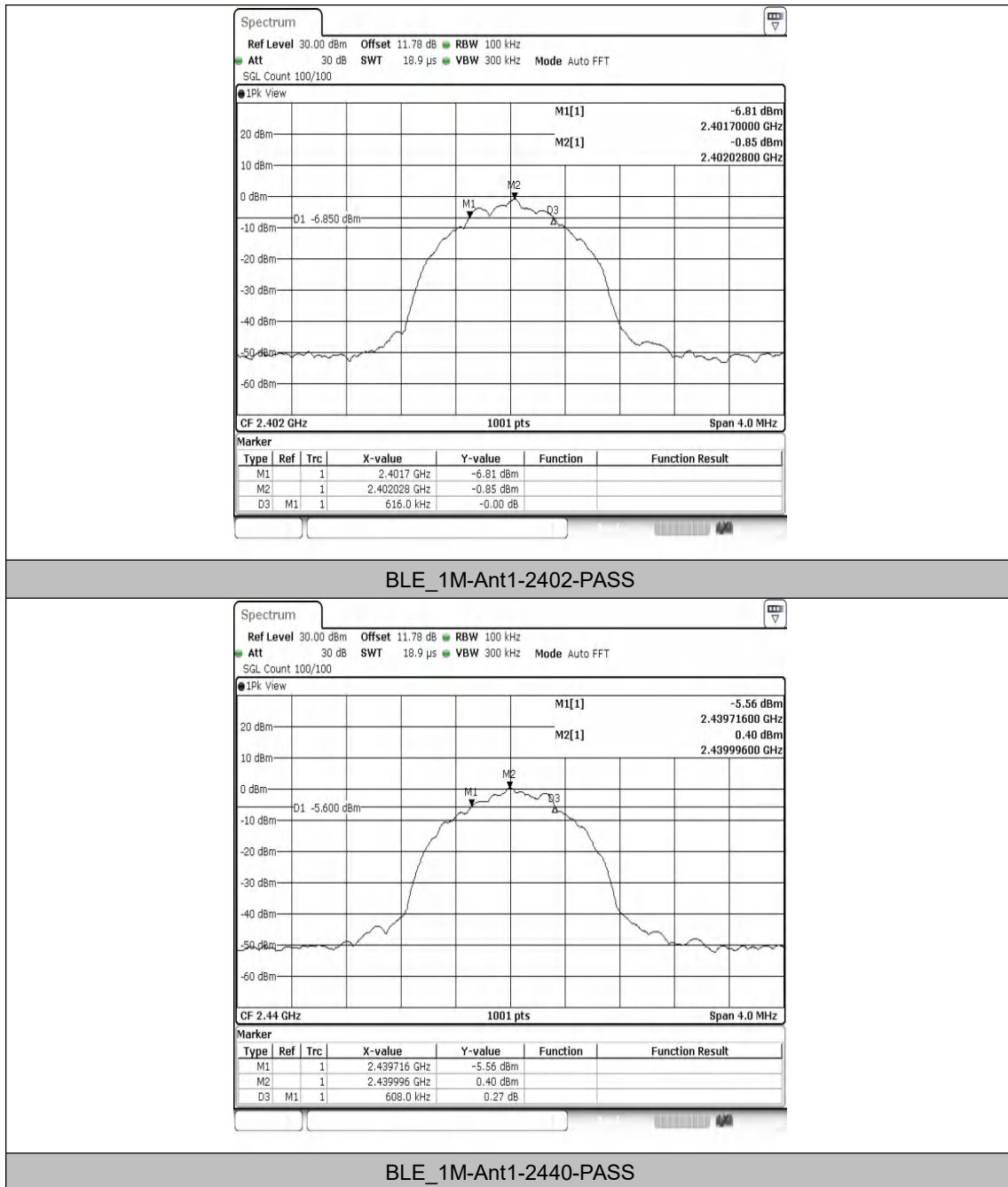
Report No.:	1812C50021012501	Test Sample No.:	1-2-2
Start Test Date:	2025.1.15	Finish Test Date:	2025.1.21
Test Engineer:	Hu Sen Guan	Auditor:	Justin Feng
Temperature:	22.3°C	Relative Humidity:	40%
Pressure:	101kPa		

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	0.62	2401.70	2402.32	0.5	PASS
BLE_1M	Ant1	2440	0.61	2439.72	2440.32	0.5	PASS
BLE_1M	Ant1	2480	0.67	2479.68	2480.35	0.5	PASS
BLE_2M	Ant1	2402	1.32	2401.35	2402.67	0.5	PASS
BLE_2M	Ant1	2440	1.37	2439.34	2440.71	0.5	PASS
BLE_2M	Ant1	2480	1.22	2479.46	2480.68	0.5	PASS

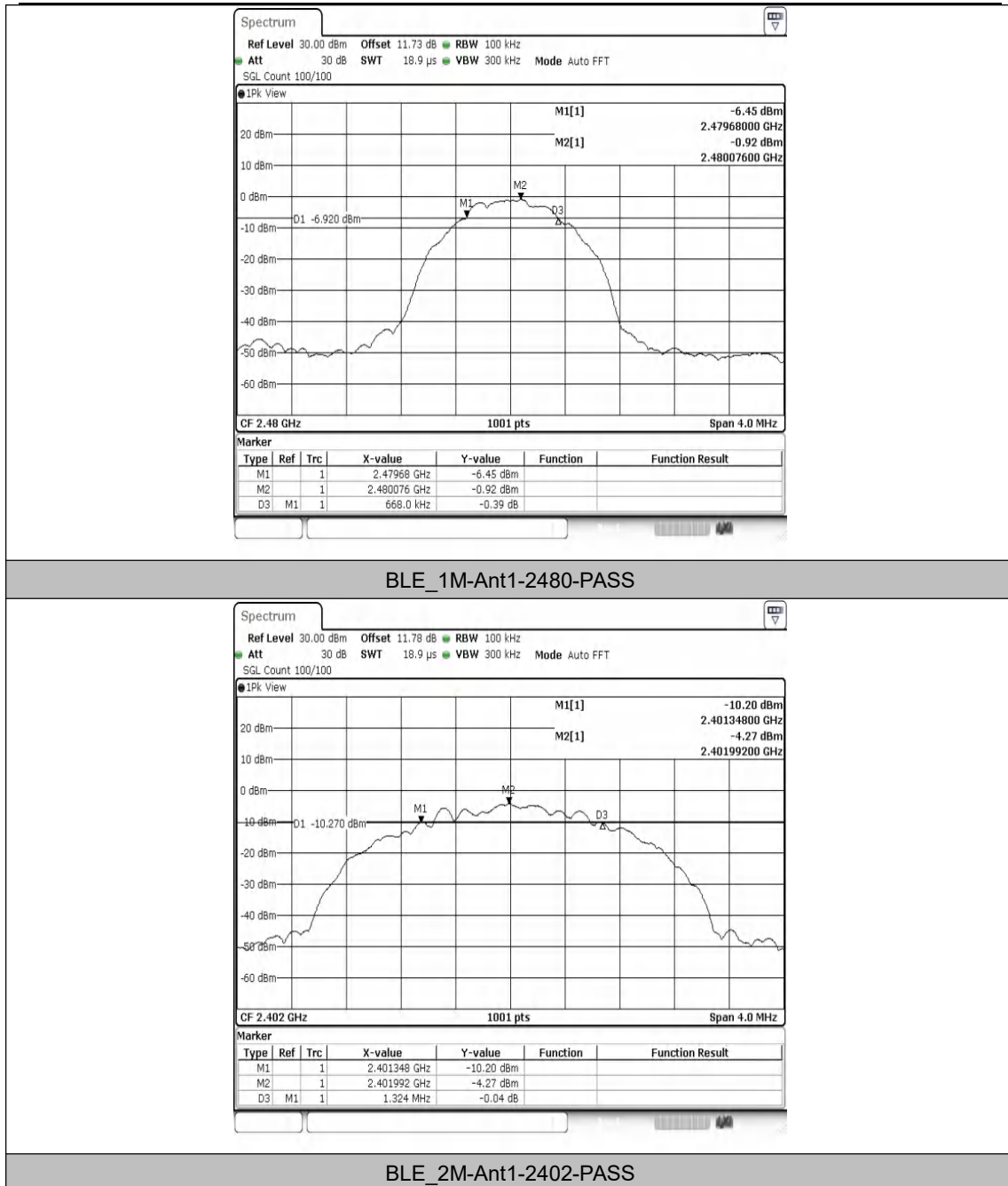
Test Graphs

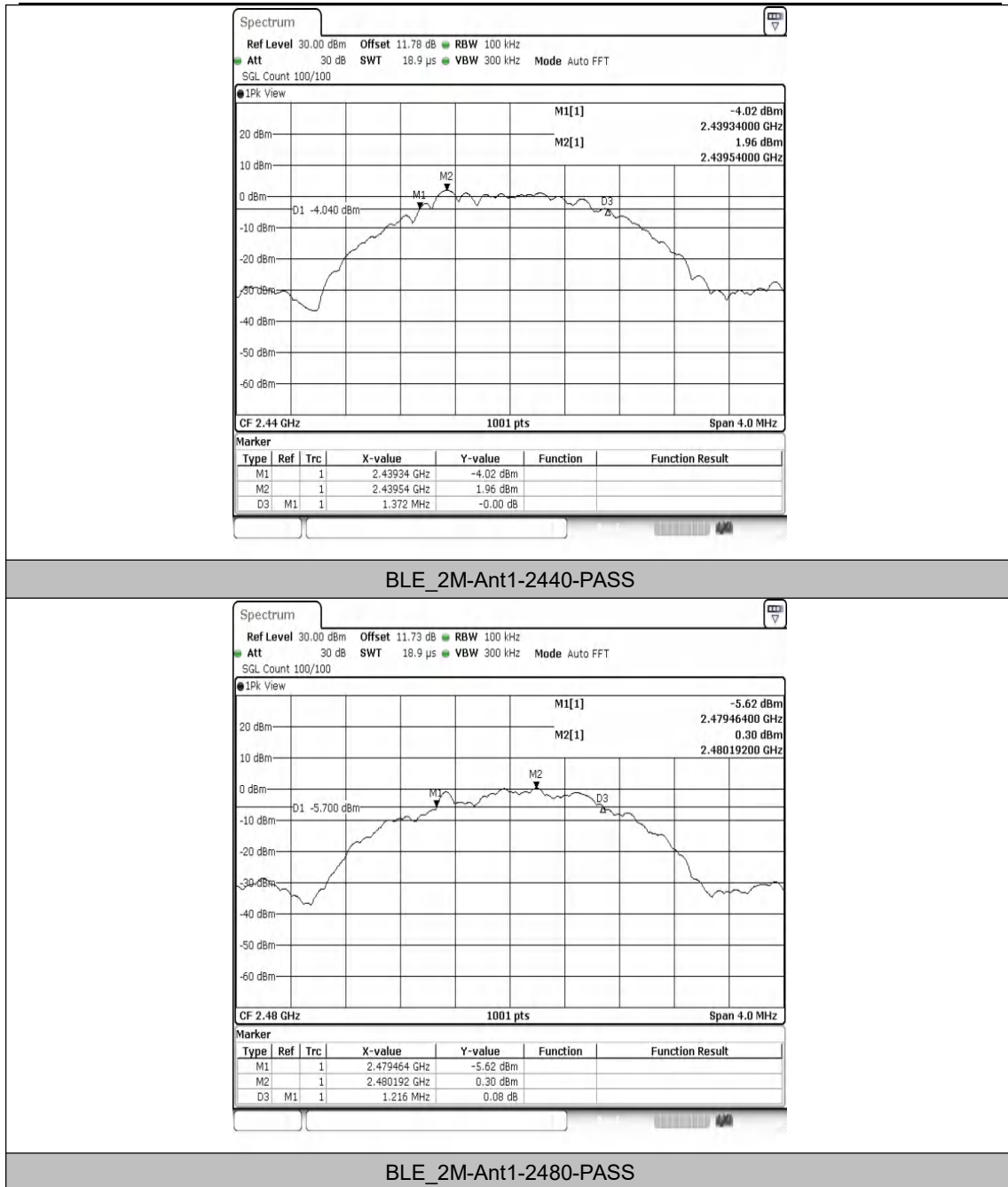


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Appendix B: 99% Occupied Bandwidth

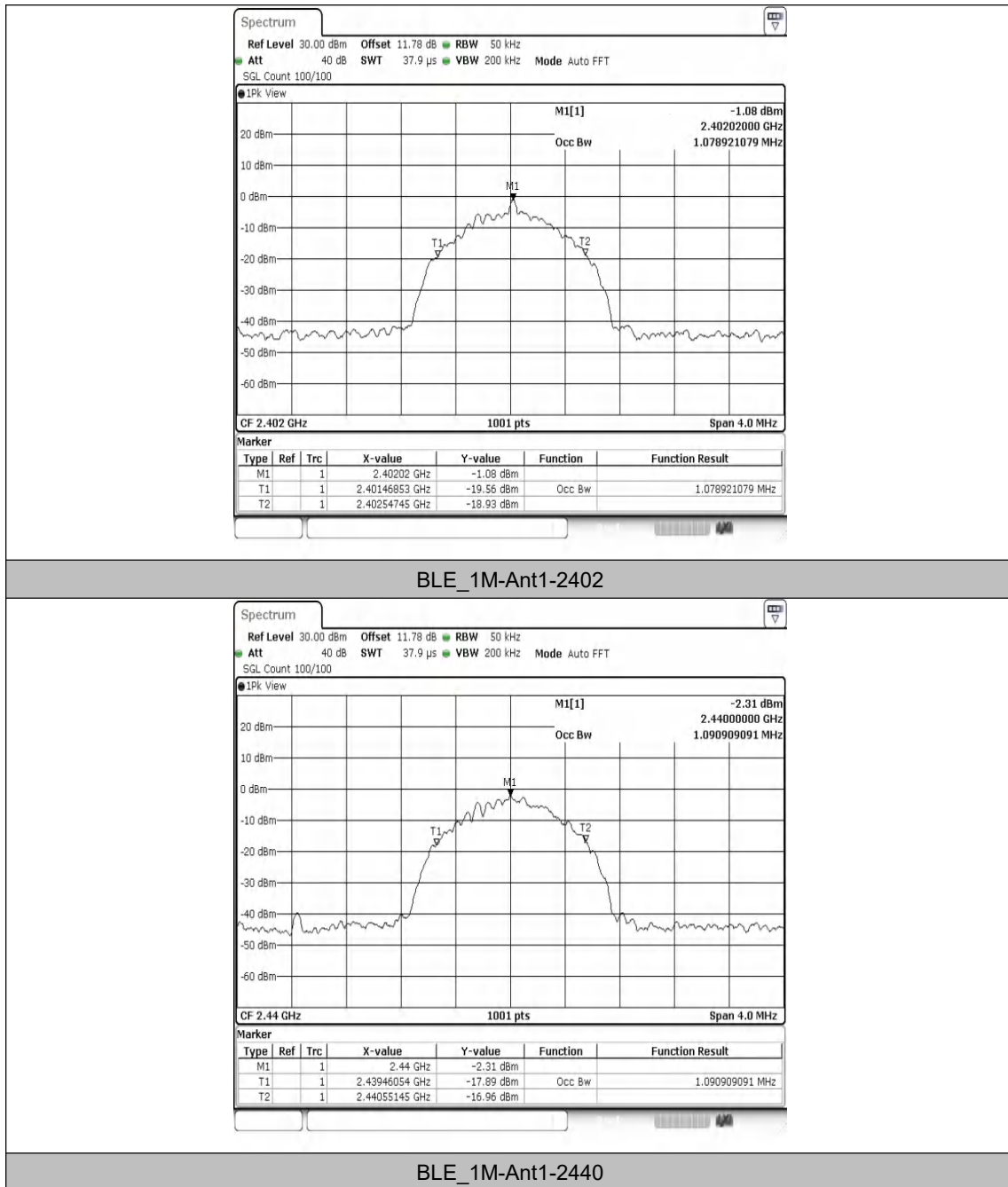
Test Result

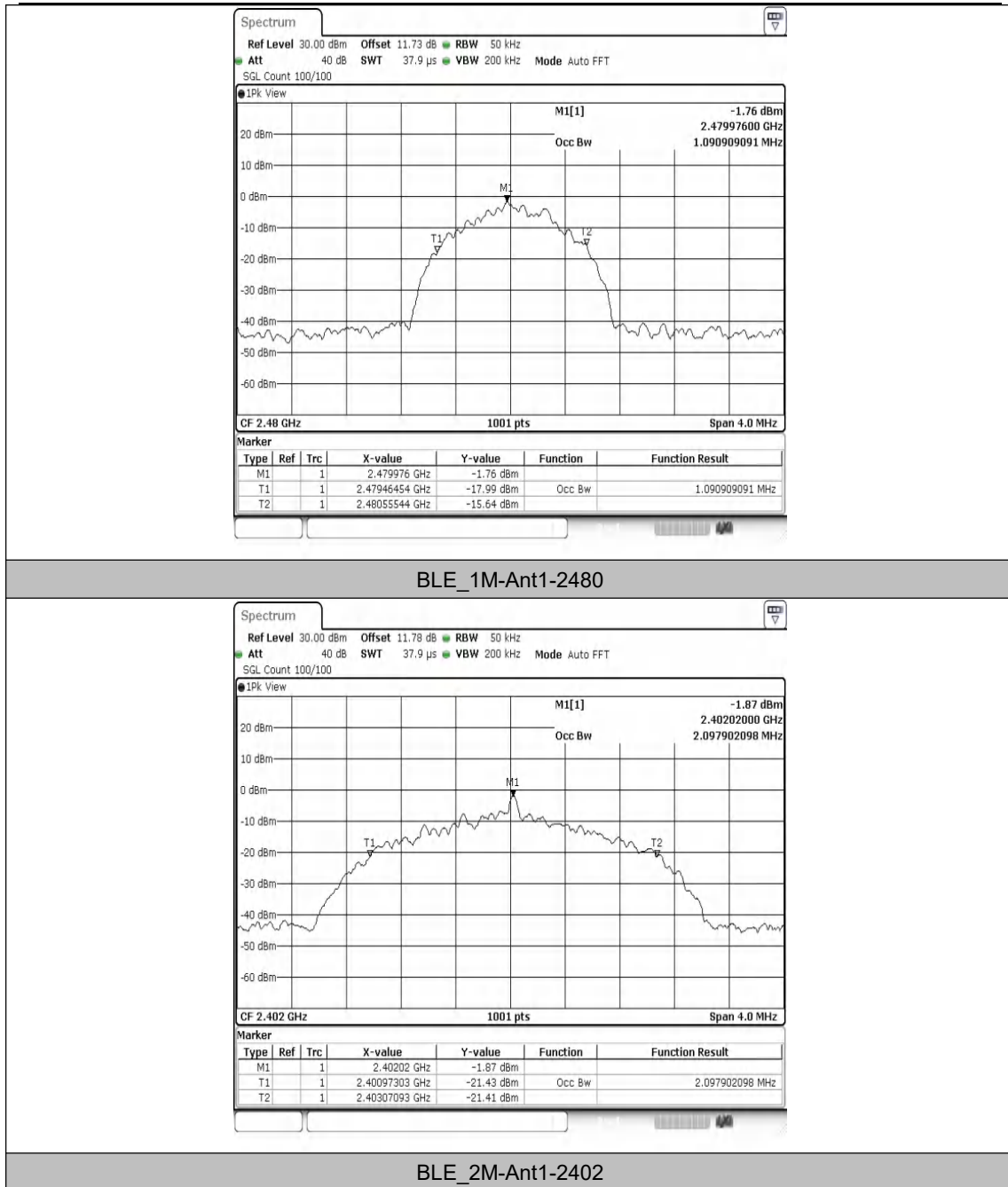
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.079	2401.4685	2402.5475	---	---
BLE_1M	Ant1	2440	1.091	2439.4605	2440.5514	---	---
BLE_1M	Ant1	2480	1.091	2479.4645	2480.5554	---	---
BLE_2M	Ant1	2402	2.098	2400.9730	2403.0709	---	---
BLE_2M	Ant1	2440	2.122	2438.9530	2441.0749	---	---
BLE_2M	Ant1	2480	2.066	2478.9810	2481.0470	---	---

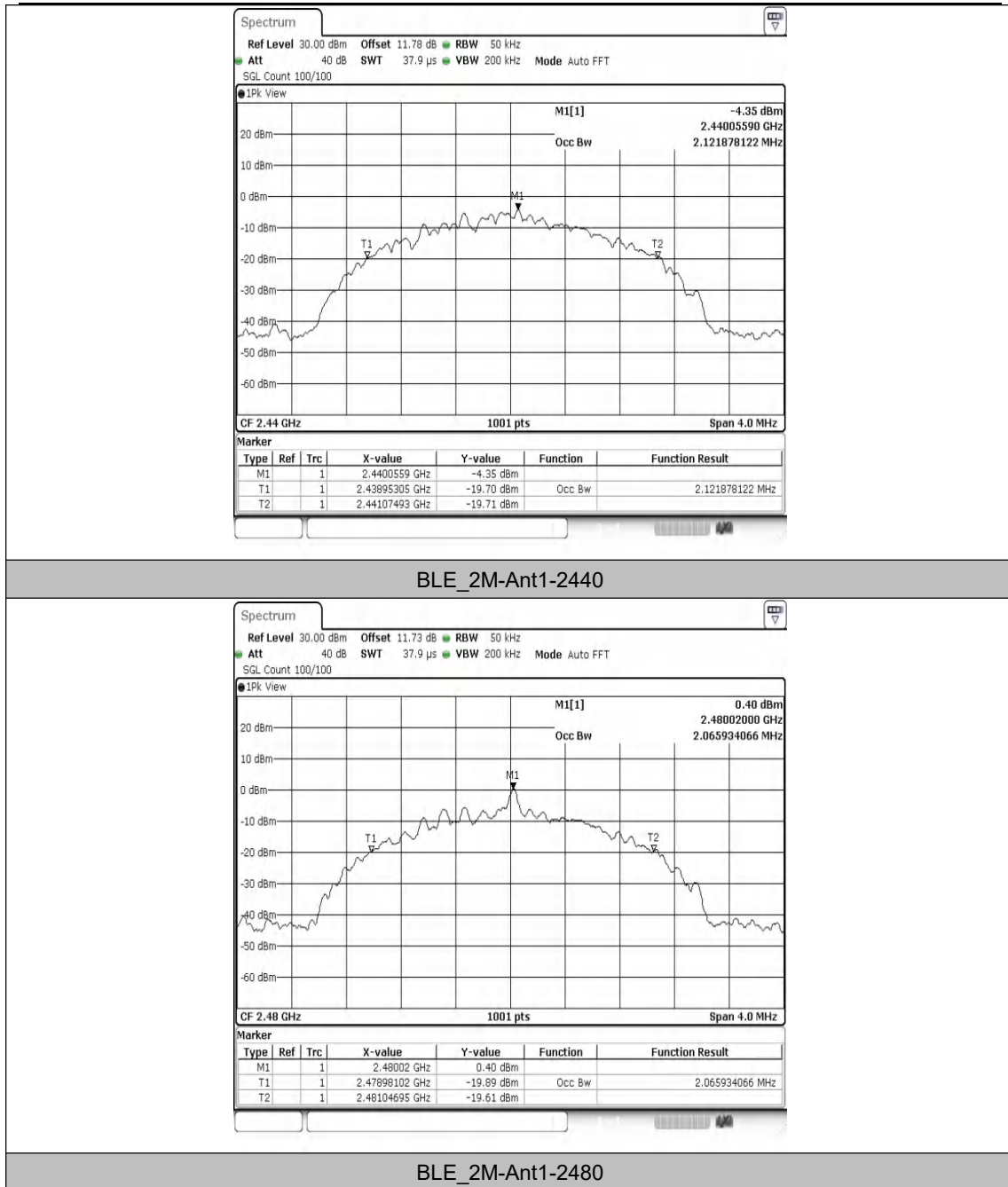
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Test Graphs





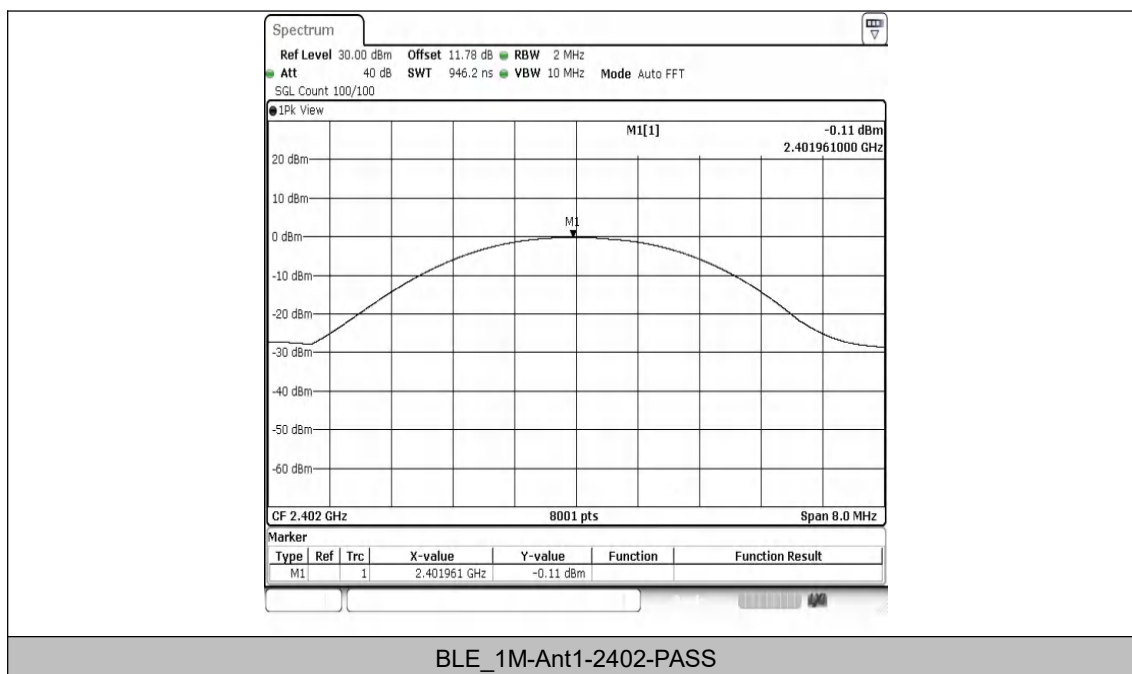


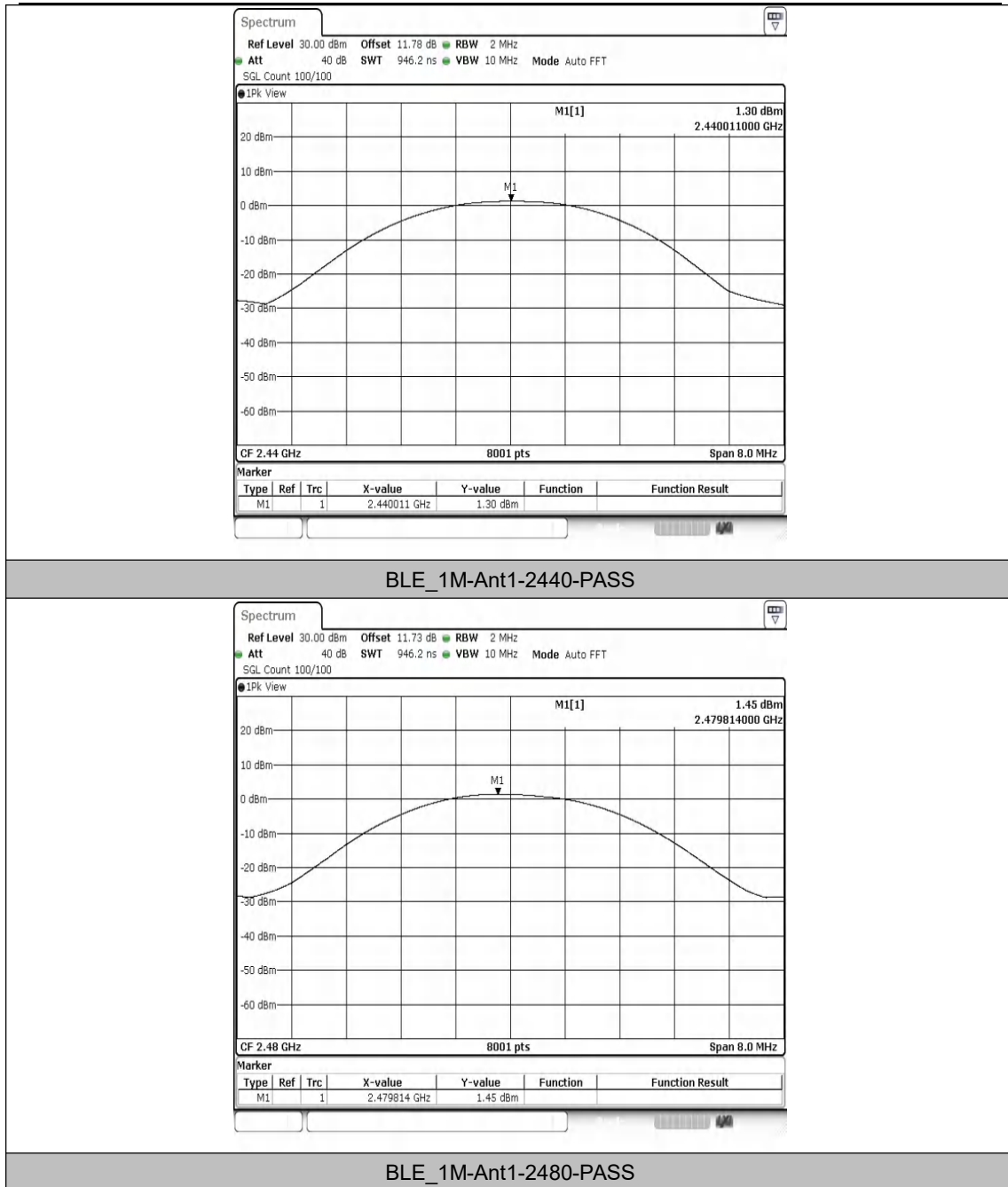
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.11	≤30	PASS
BLE_1M	Ant1	2440	1.30	≤30	PASS
BLE_1M	Ant1	2480	1.45	≤30	PASS
BLE_2M	Ant1	2402	-0.40	≤30	PASS
BLE_2M	Ant1	2440	0.99	≤30	PASS
BLE_2M	Ant1	2480	1.42	≤30	PASS

Test Graphs Peak

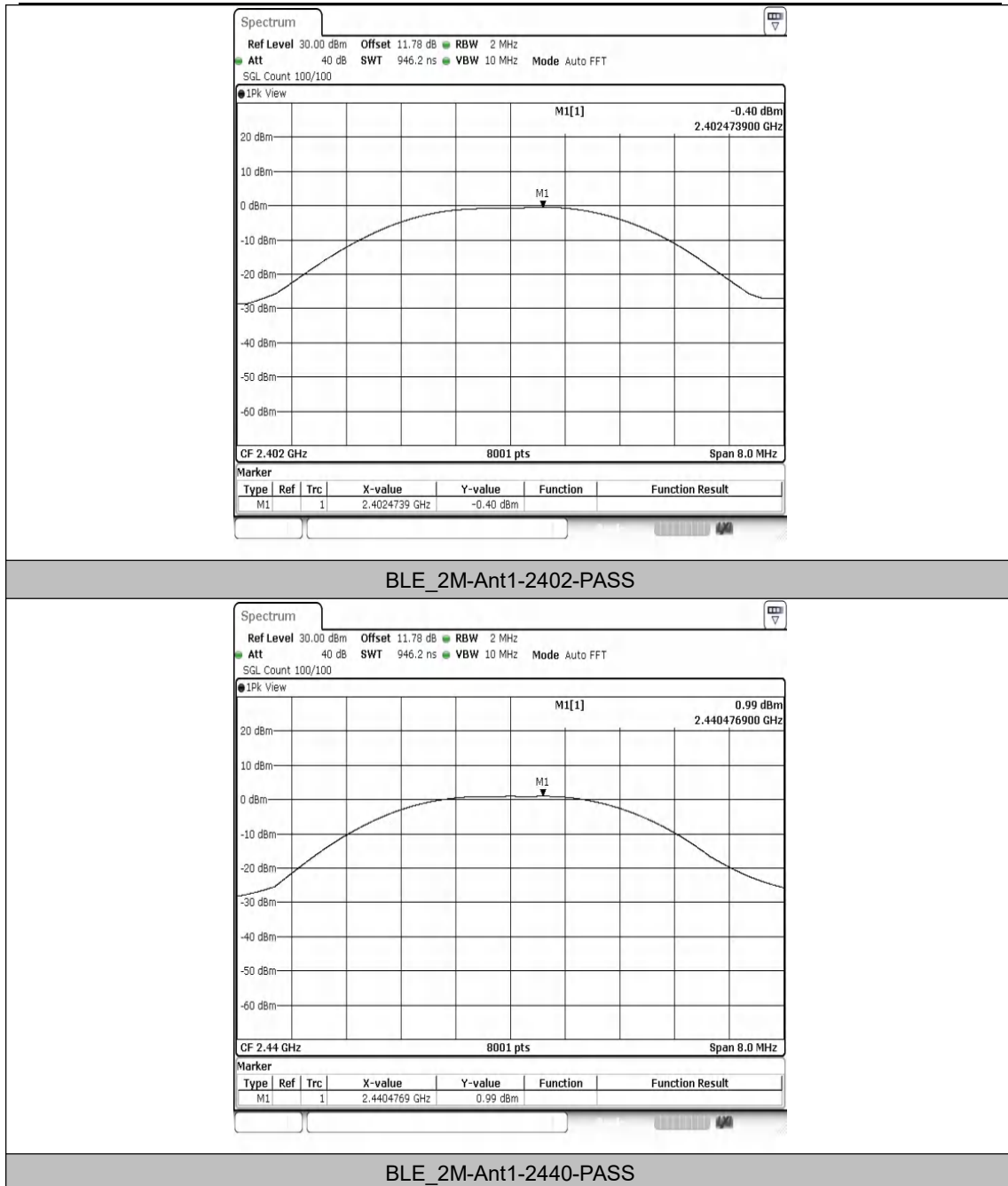




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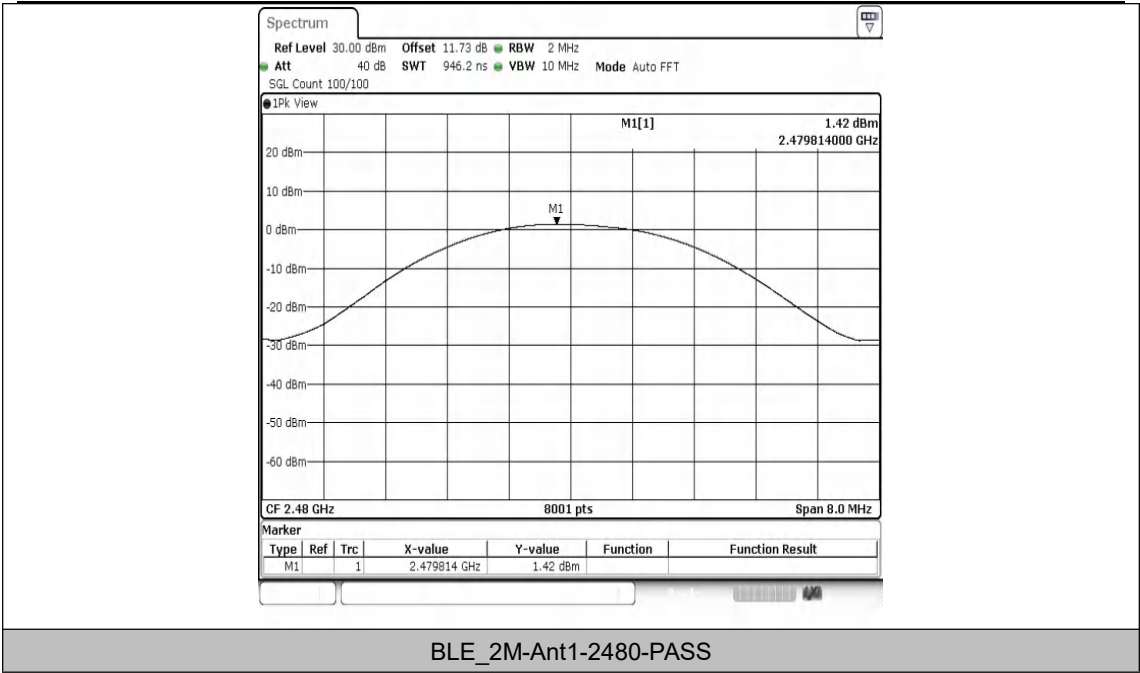
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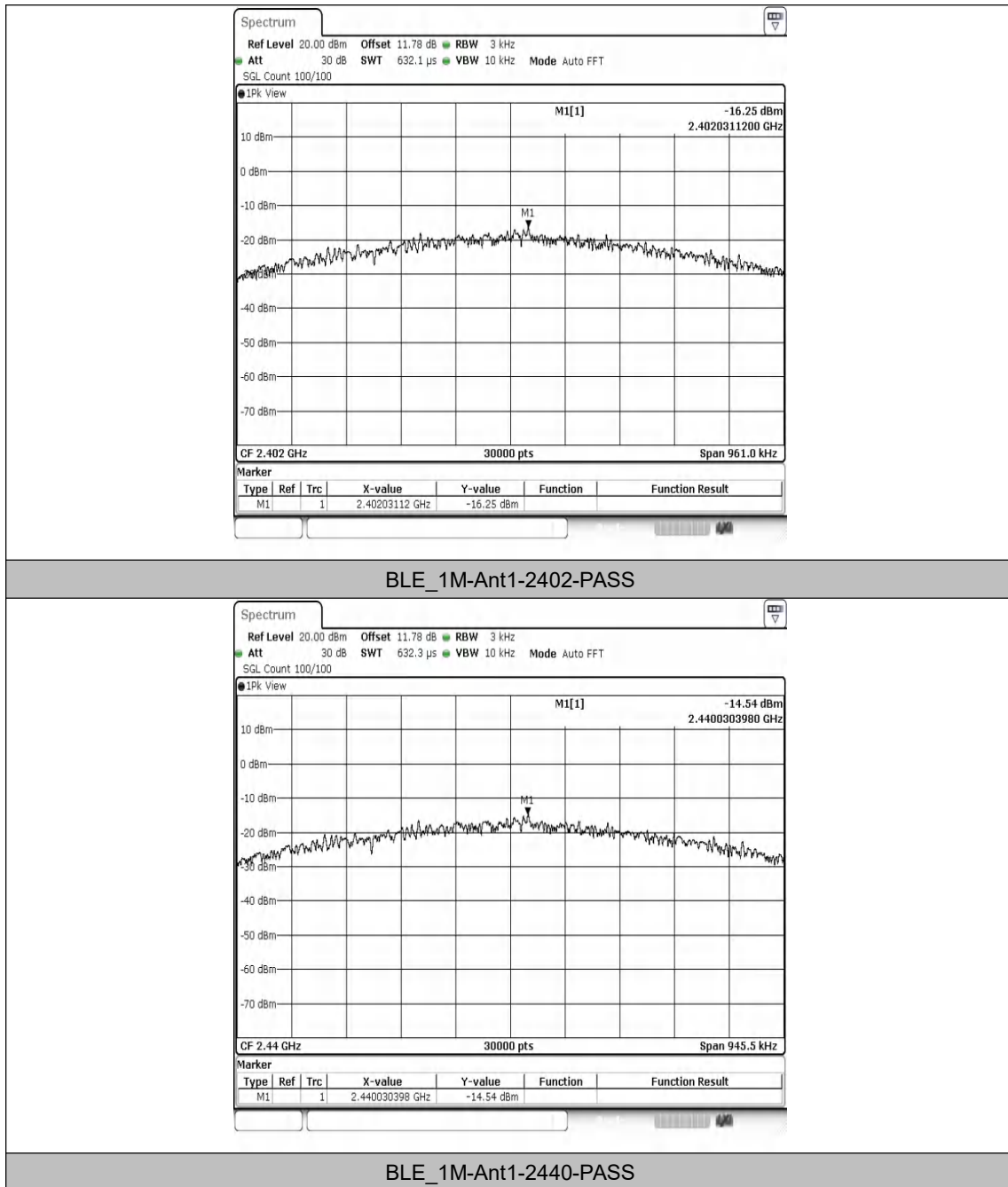
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.25	≤8.00	PASS
BLE_1M	Ant1	2440	-14.54	≤8.00	PASS
BLE_1M	Ant1	2480	-14.74	≤8.00	PASS
BLE_2M	Ant1	2402	-17.84	≤8.00	PASS
BLE_2M	Ant1	2440	-16.24	≤8.00	PASS
BLE_2M	Ant1	2480	-16.41	≤8.00	PASS

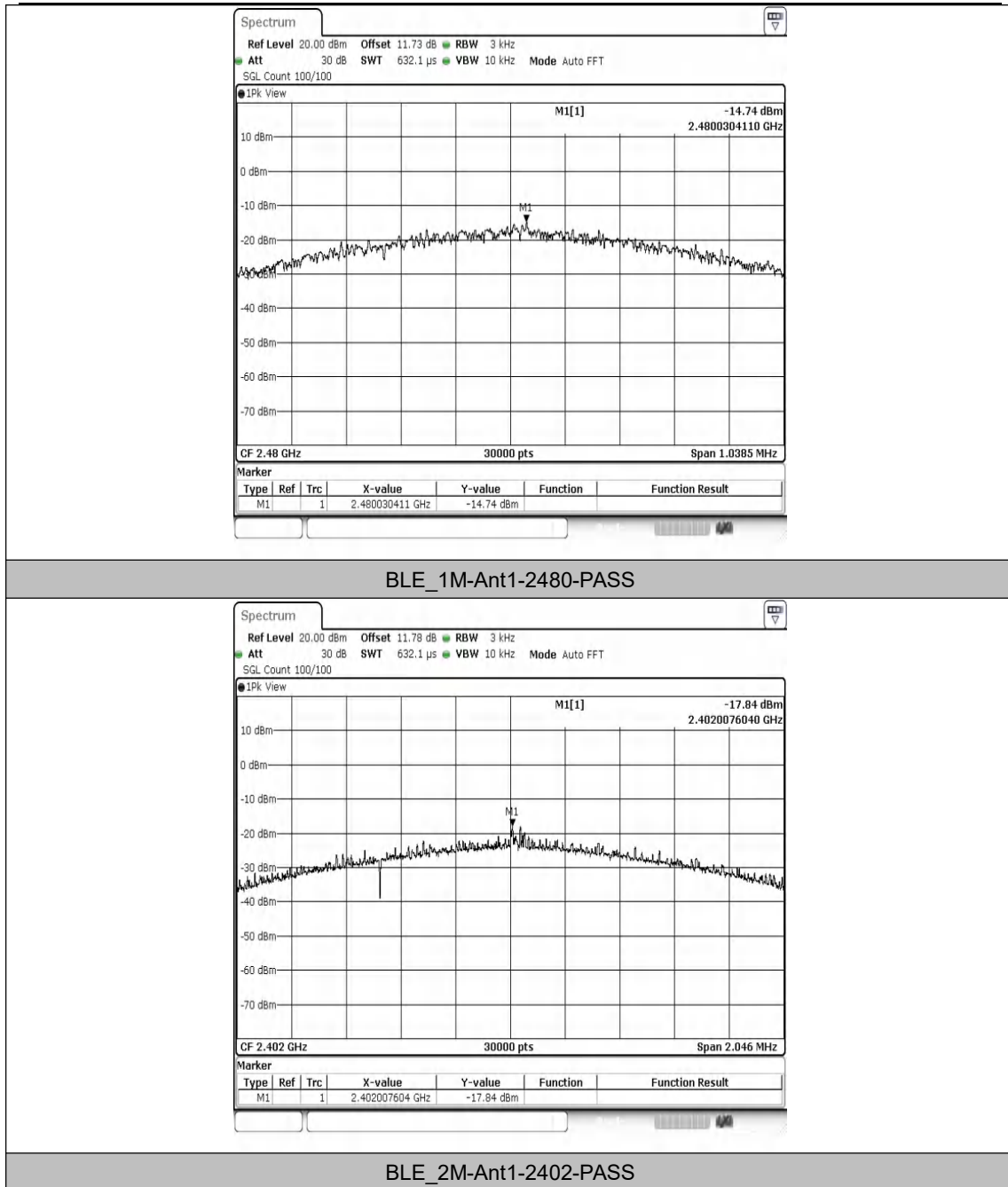
Test Graphs

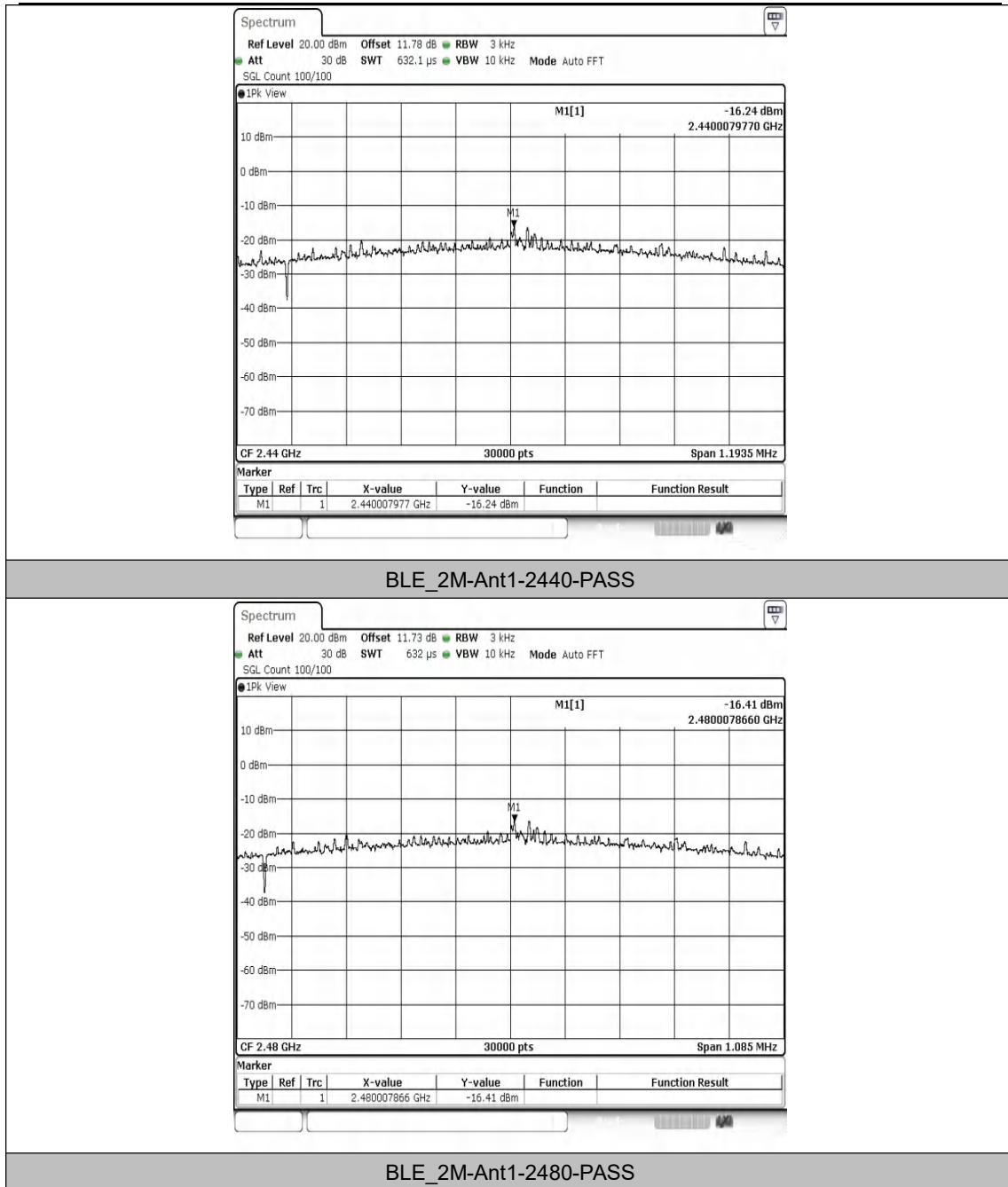


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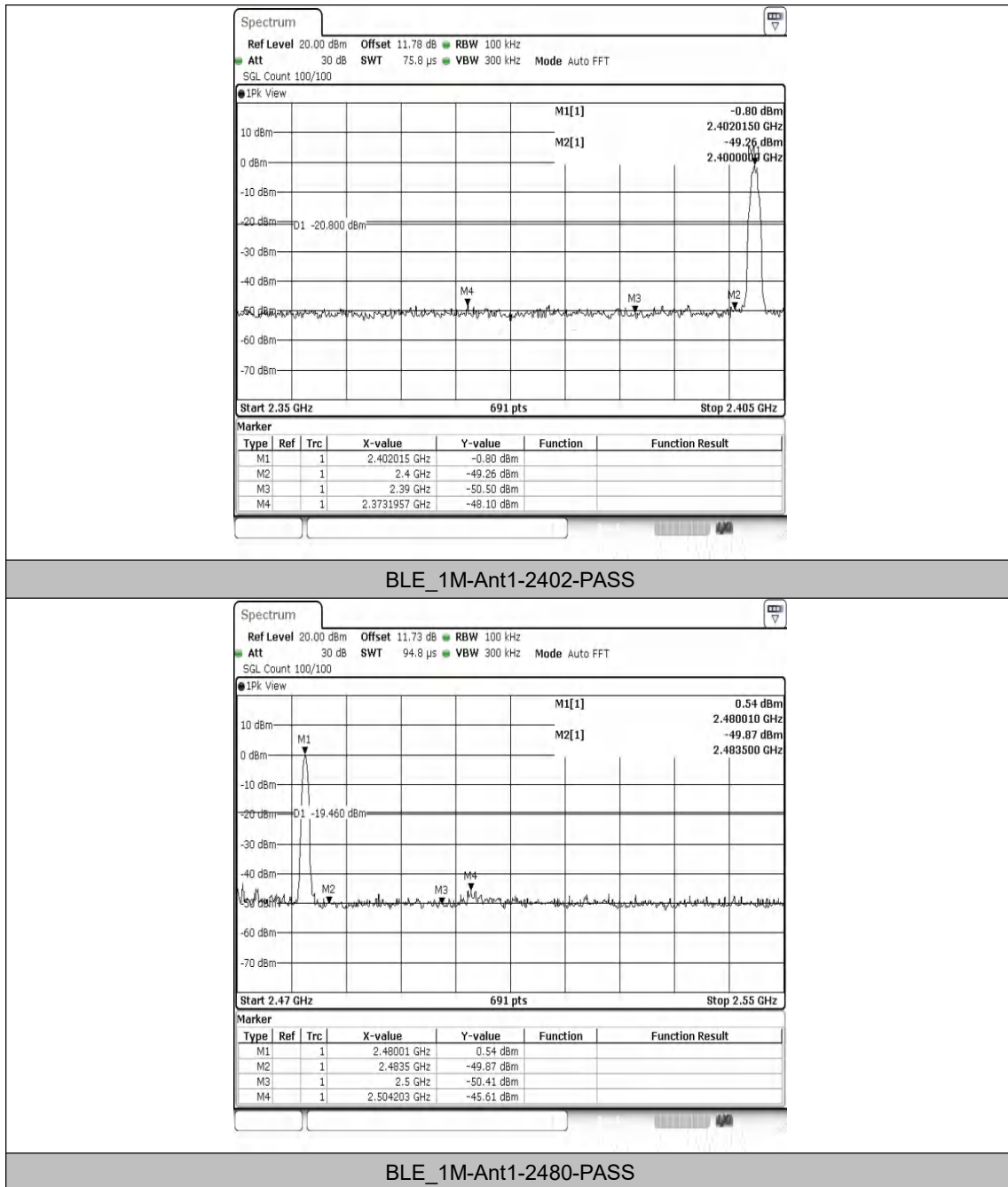
Appendix E: Band edge measurements

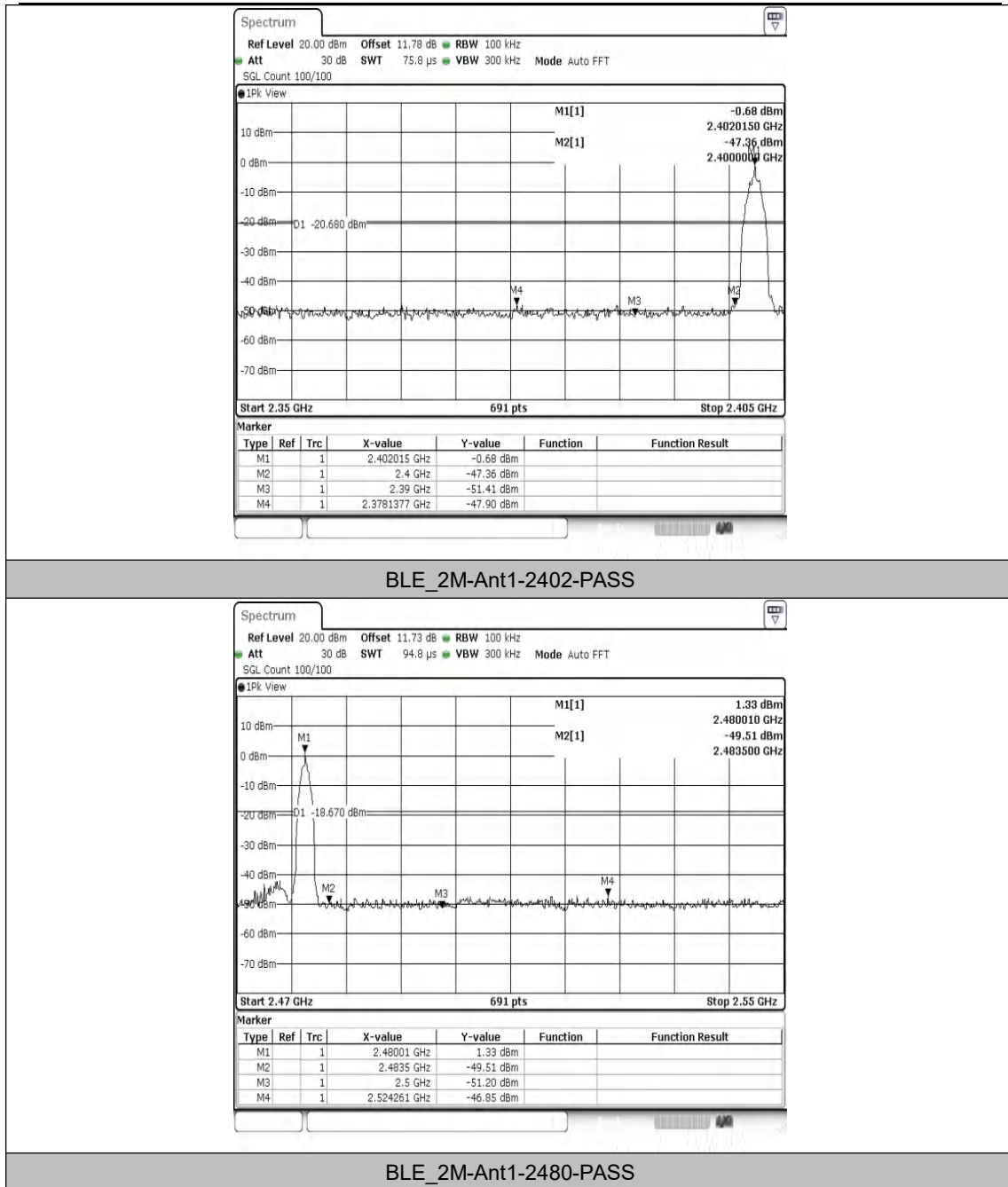
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.80	-48.1	≤-20.8	PASS
BLE_1M	Ant1	High	2480	0.54	-45.61	≤-19.46	PASS
BLE_2M	Ant1	Low	2402	-0.68	-47.9	≤-20.68	PASS
BLE_2M	Ant1	High	2480	1.33	-46.85	≤-18.67	PASS



Test Graphs



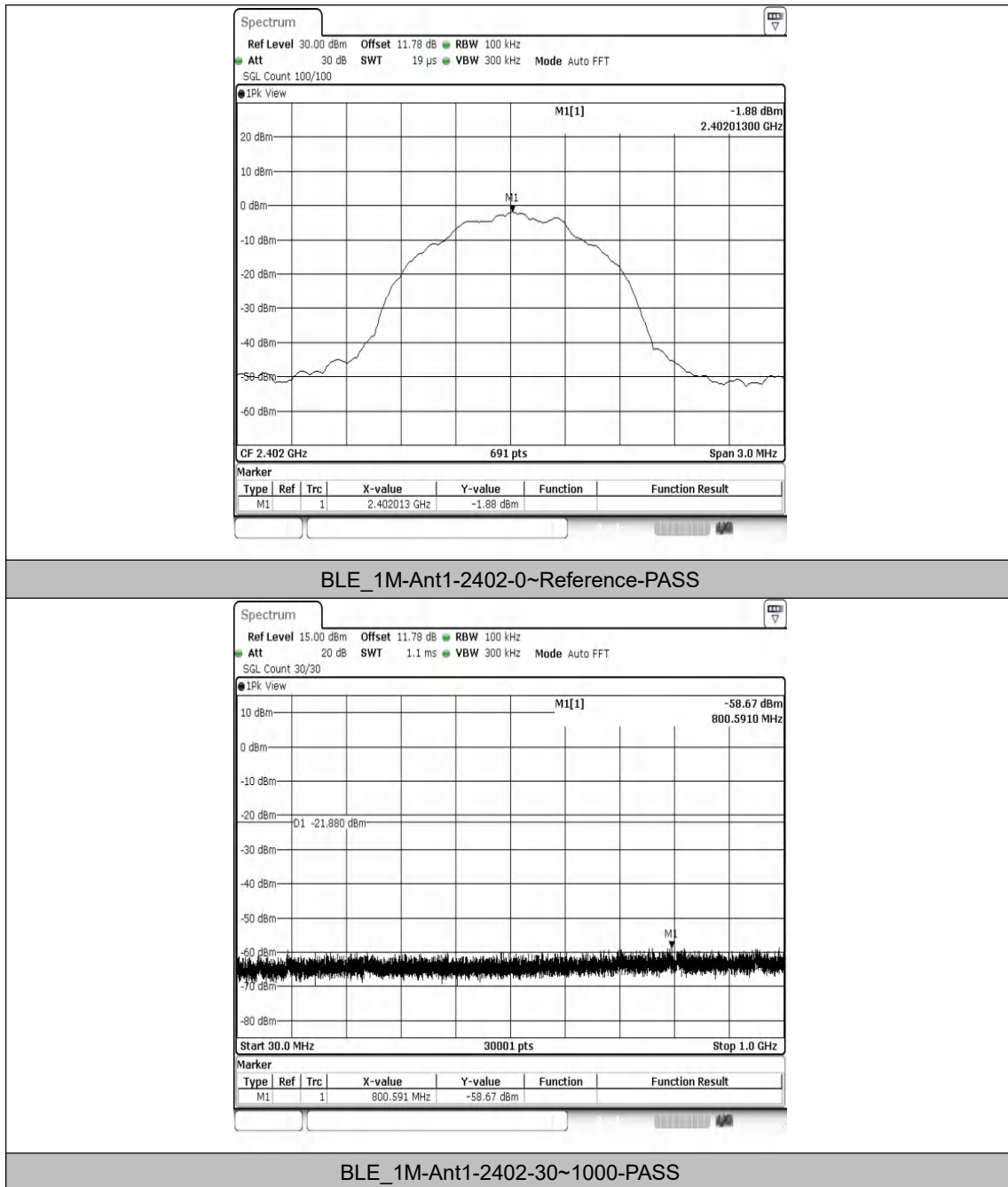


Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-1.88	-1.88	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.88	-58.67	≤-21.88	PASS
BLE_1M	Ant1	2402	1000~26500	-1.88	-43.61	≤-21.88	PASS
BLE_1M	Ant1	2440	0~Reference	-0.53	-0.53	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.53	-57.5	≤-20.53	PASS
BLE_1M	Ant1	2440	1000~26500	-0.53	-43.82	≤-20.53	PASS
BLE_1M	Ant1	2480	0~Reference	1.17	1.17	---	PASS
BLE_1M	Ant1	2480	30~1000	1.17	-58.01	≤-18.83	PASS
BLE_1M	Ant1	2480	1000~26500	1.17	-43.69	≤-18.83	PASS
BLE_2M	Ant1	2402	0~Reference	-3.68	-3.68	---	PASS
BLE_2M	Ant1	2402	30~1000	-3.68	-58.45	≤-23.68	PASS
BLE_2M	Ant1	2402	1000~26500	-3.68	-43.73	≤-23.68	PASS
BLE_2M	Ant1	2440	0~Reference	-2.43	-2.43	---	PASS
BLE_2M	Ant1	2440	30~1000	-2.43	-57.58	≤-22.43	PASS
BLE_2M	Ant1	2440	1000~26500	-2.43	-42.82	≤-22.43	PASS
BLE_2M	Ant1	2480	0~Reference	1.17	1.17	---	PASS
BLE_2M	Ant1	2480	30~1000	1.17	-57.55	≤-18.83	PASS
BLE_2M	Ant1	2480	1000~26500	1.17	-44.33	≤-18.83	PASS

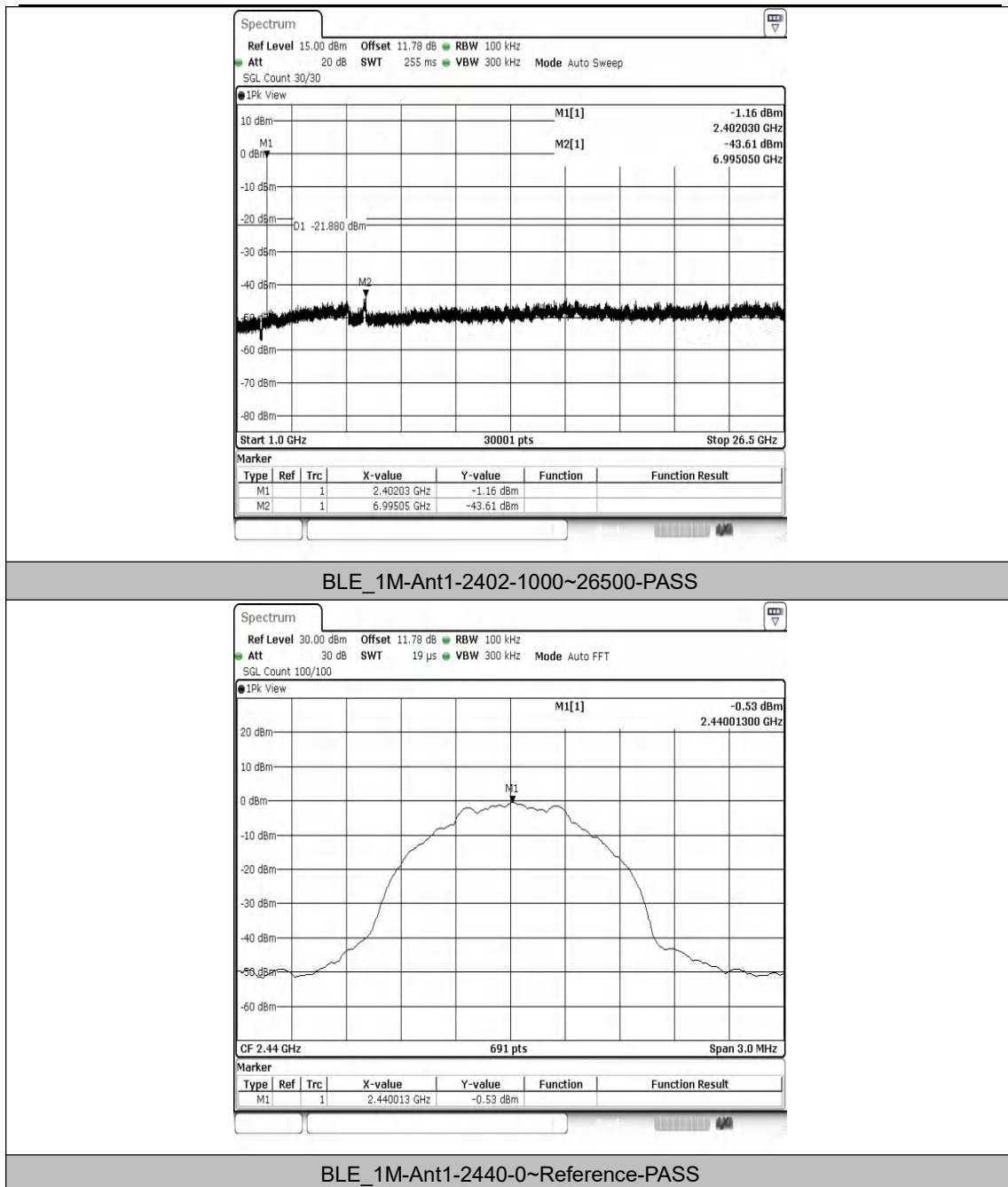
Test Graphs



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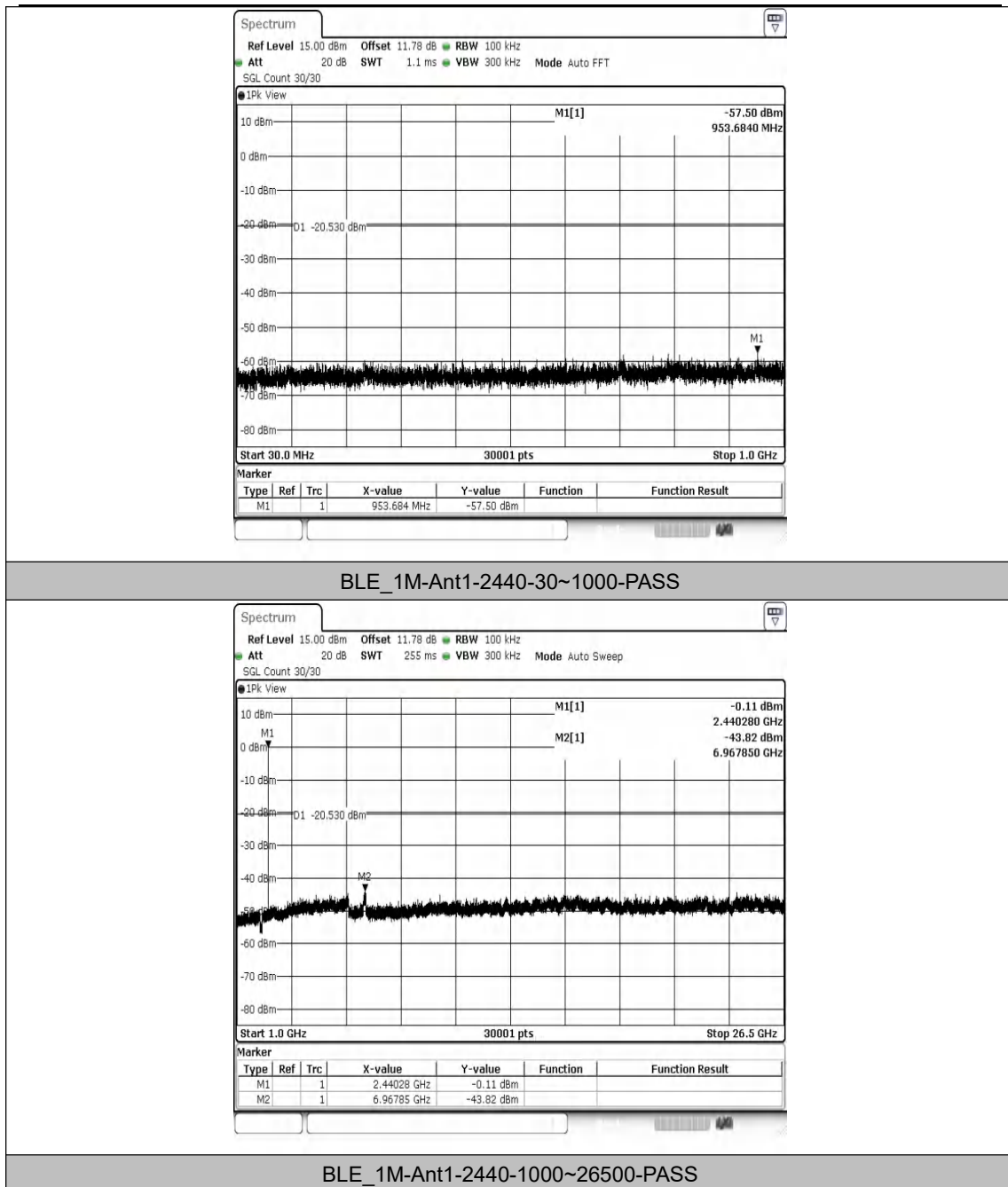
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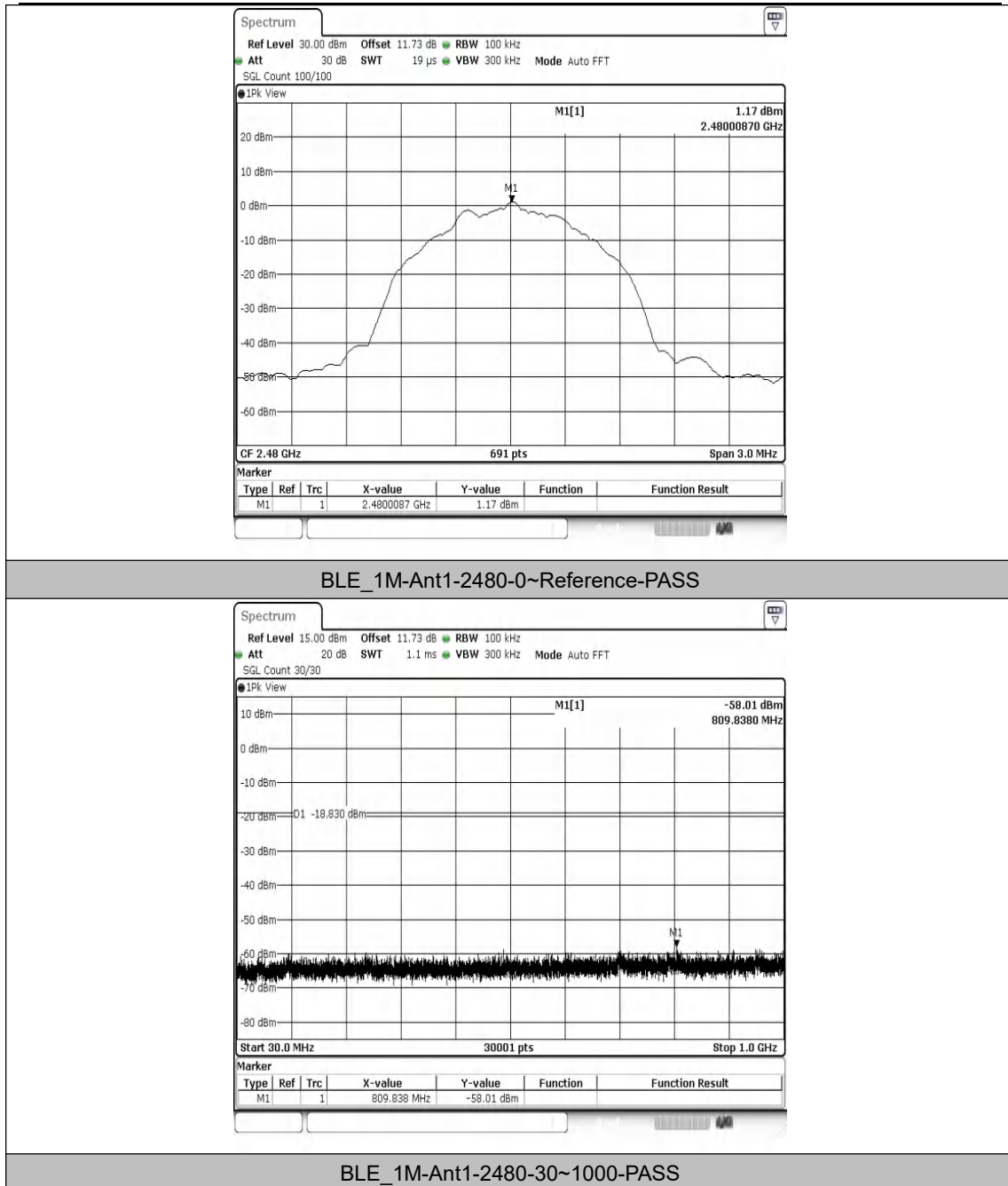


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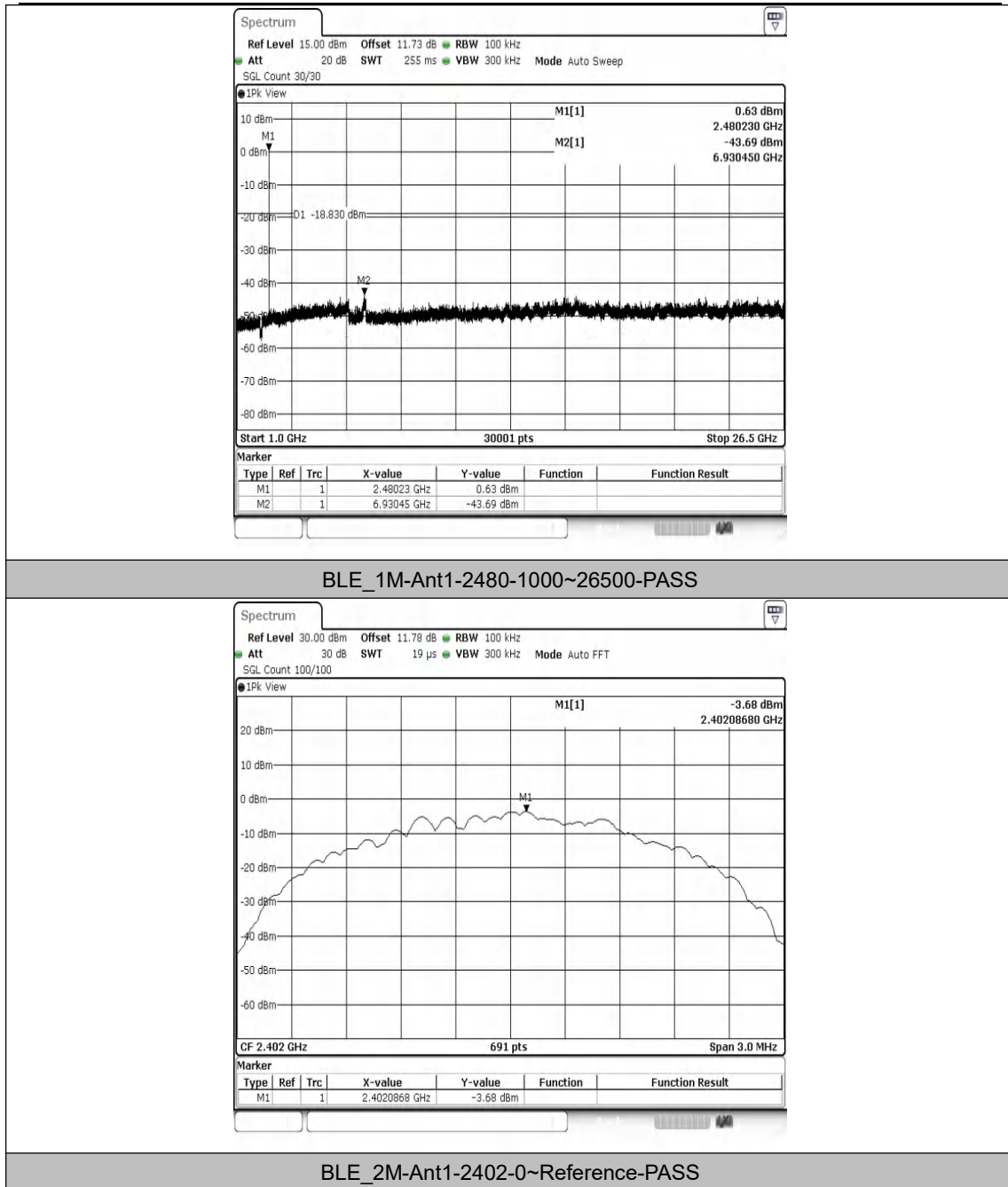




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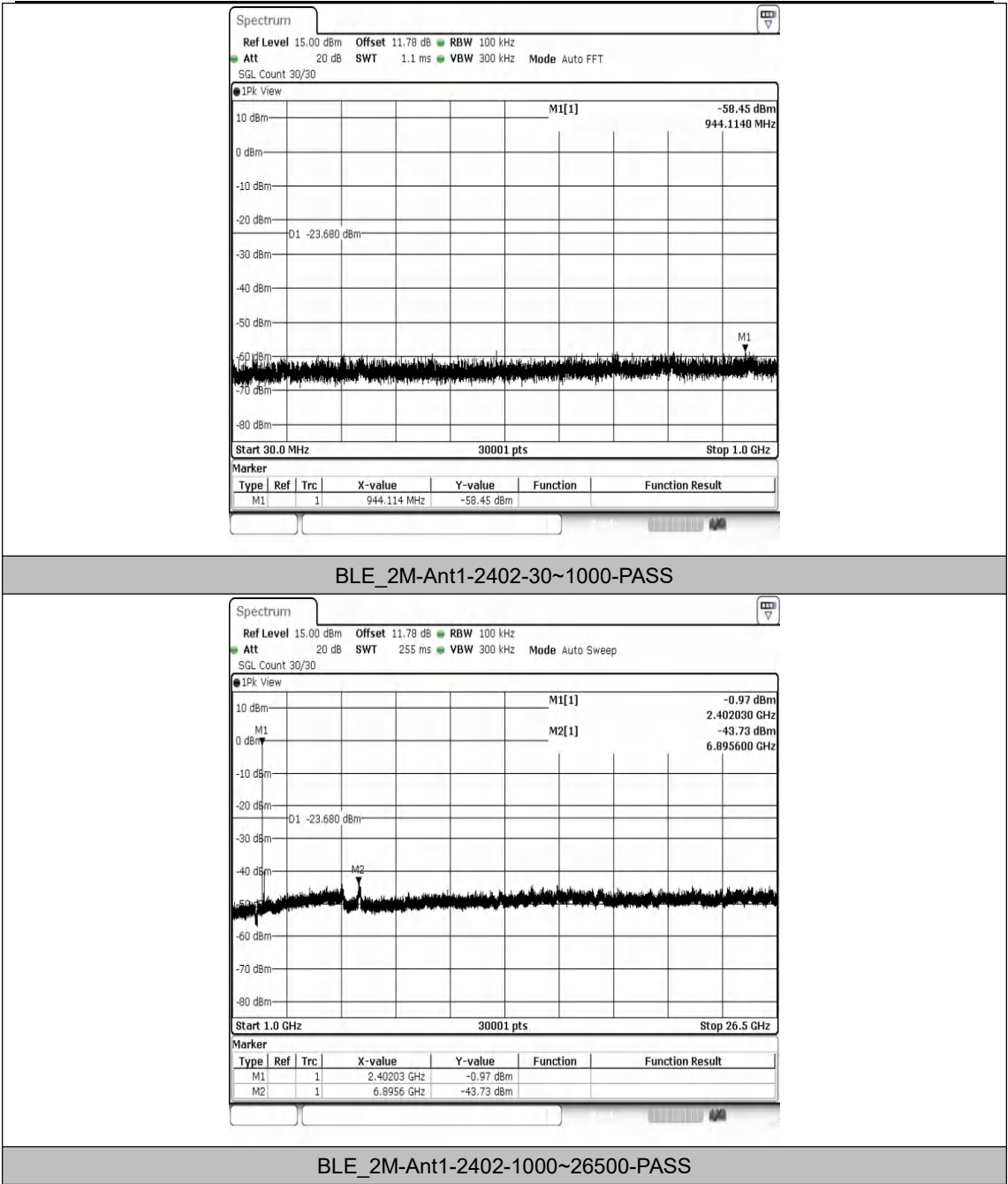
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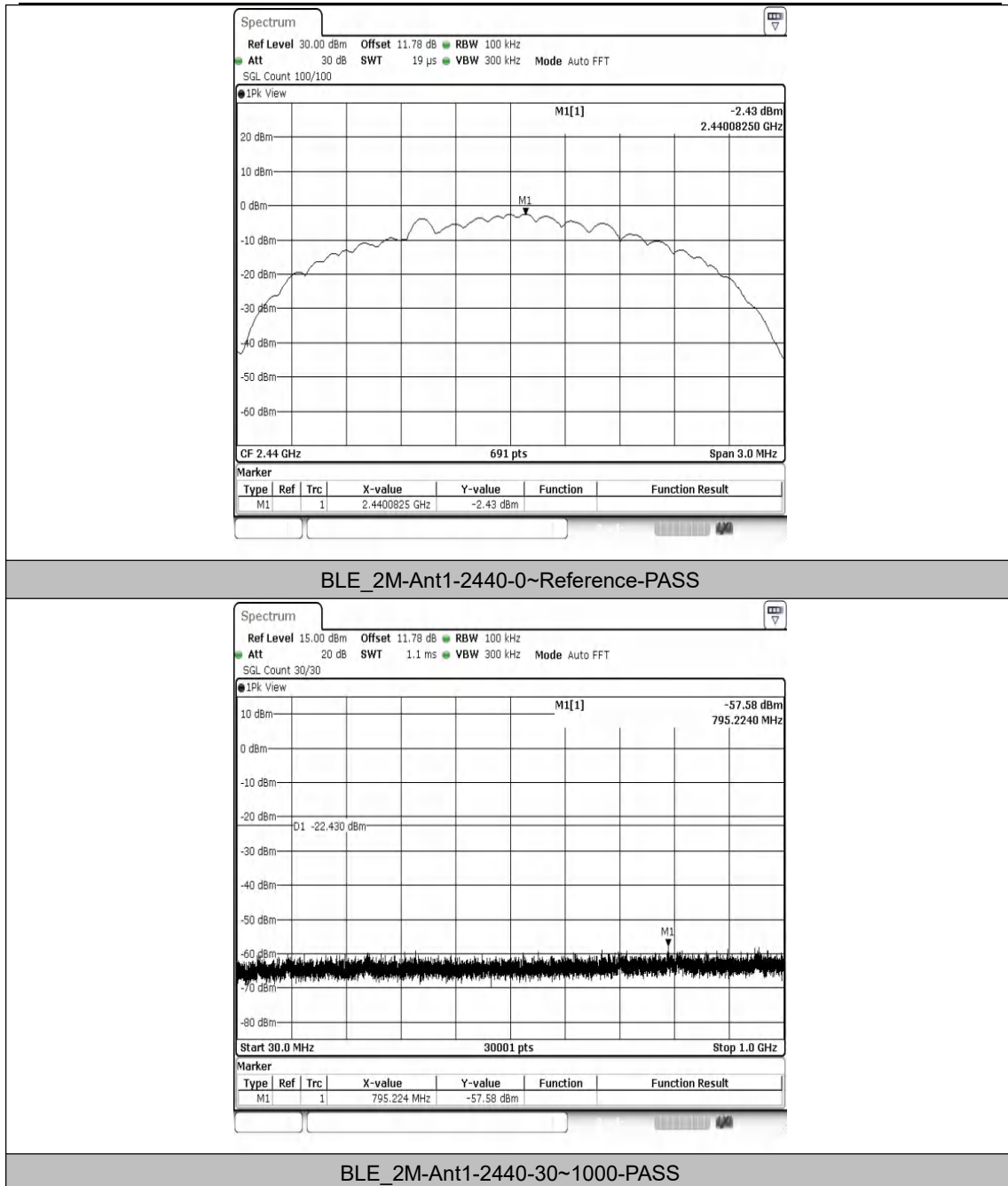


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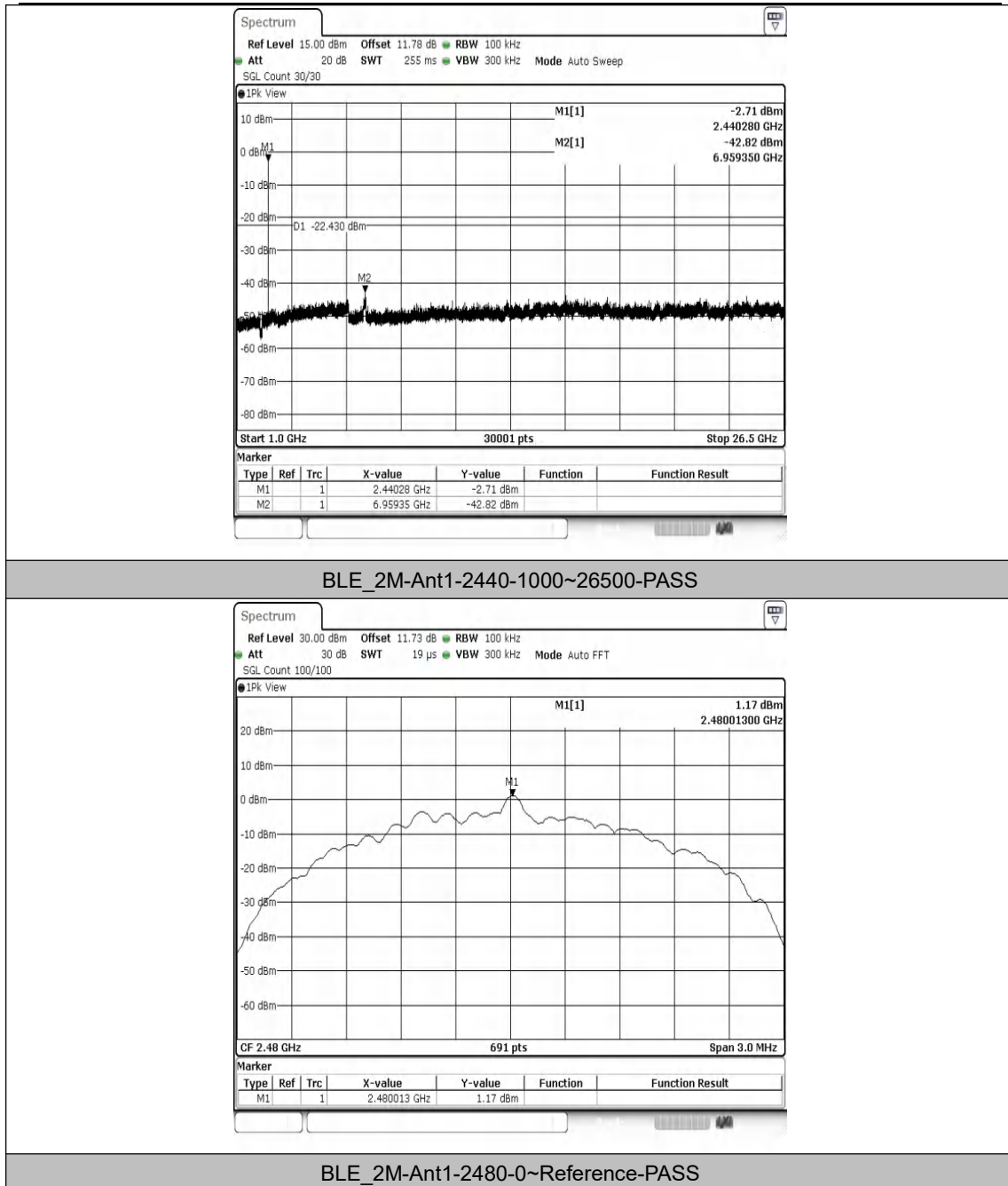




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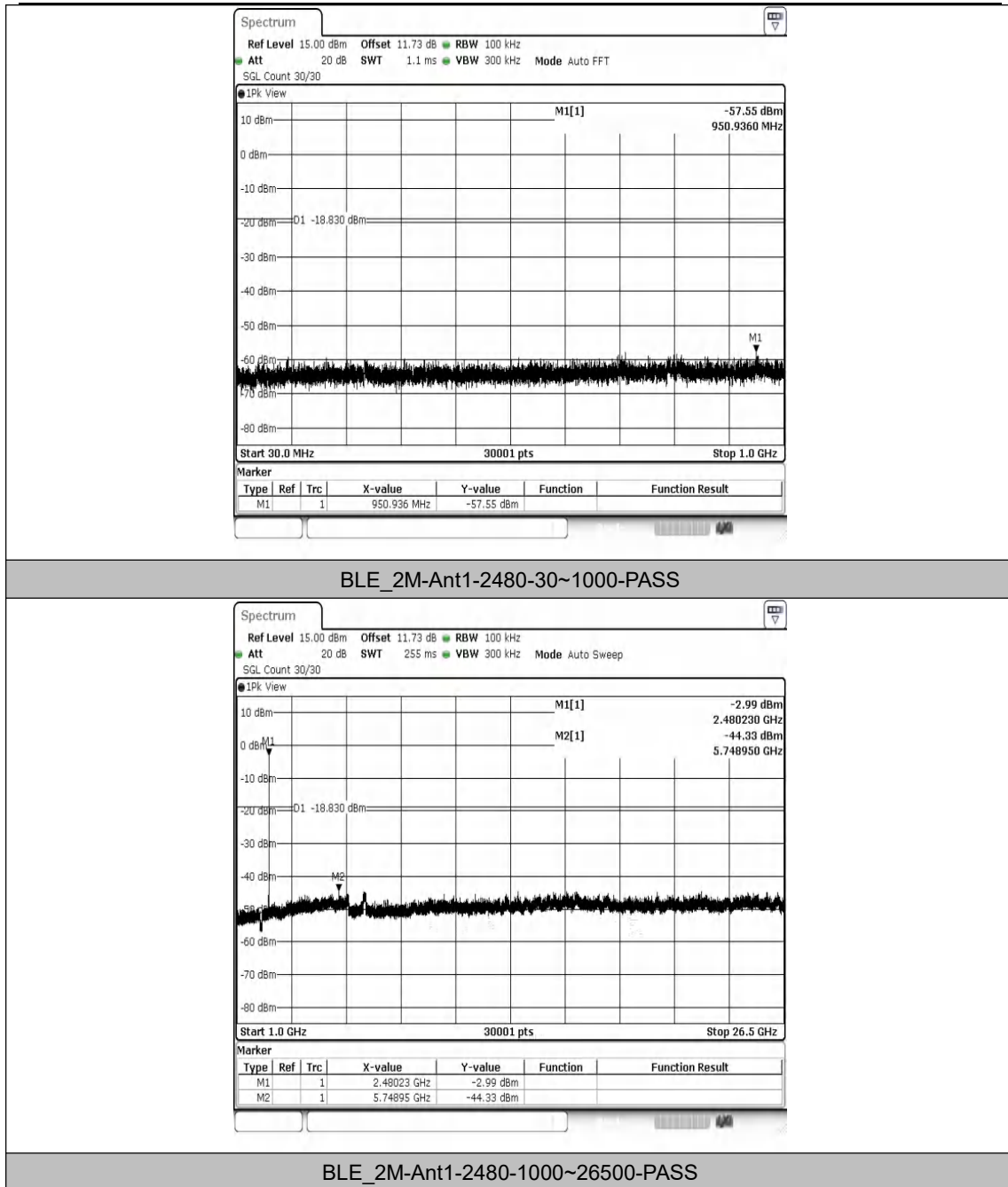
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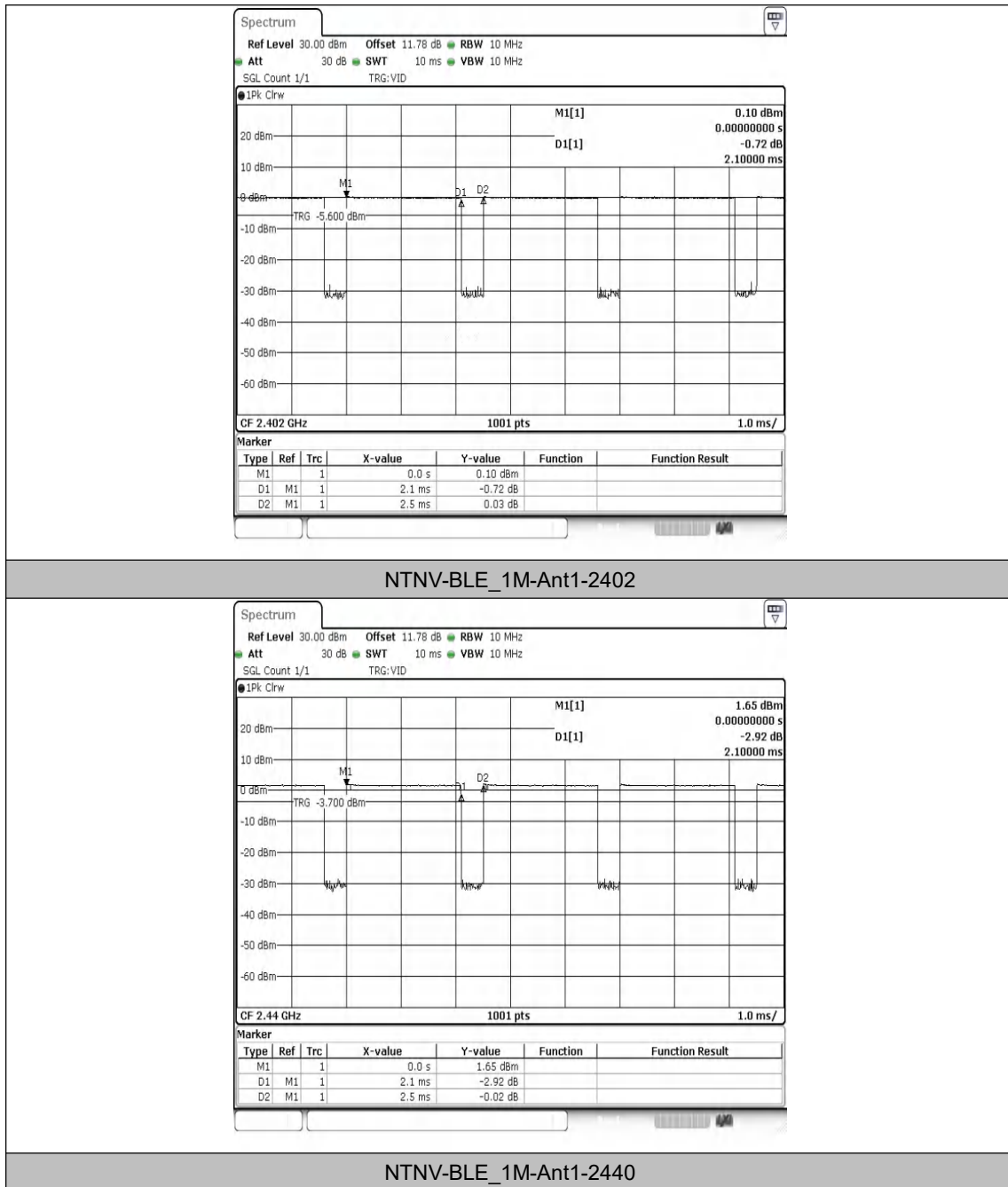
Appendix G: Duty Cycle

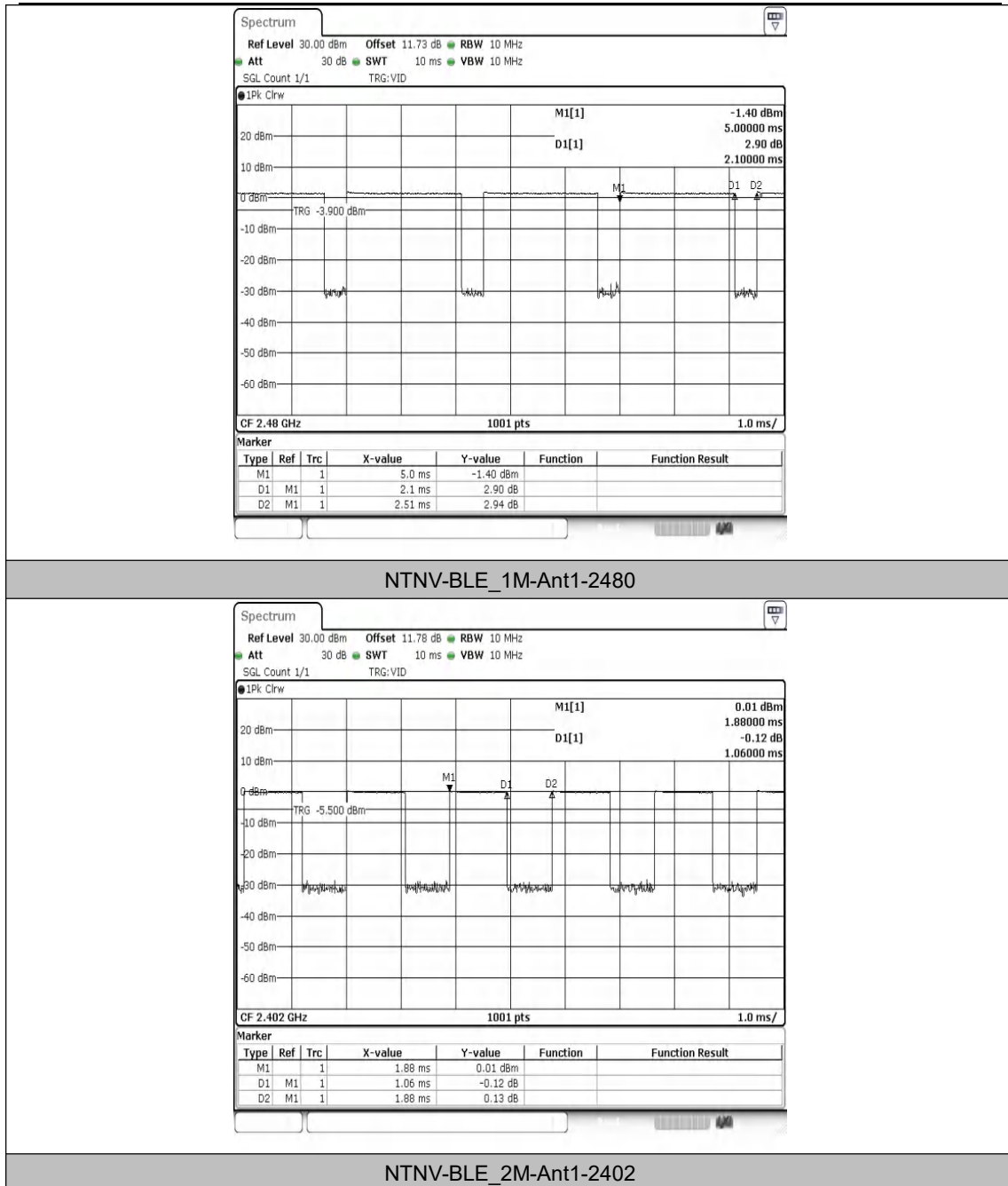
Test Result

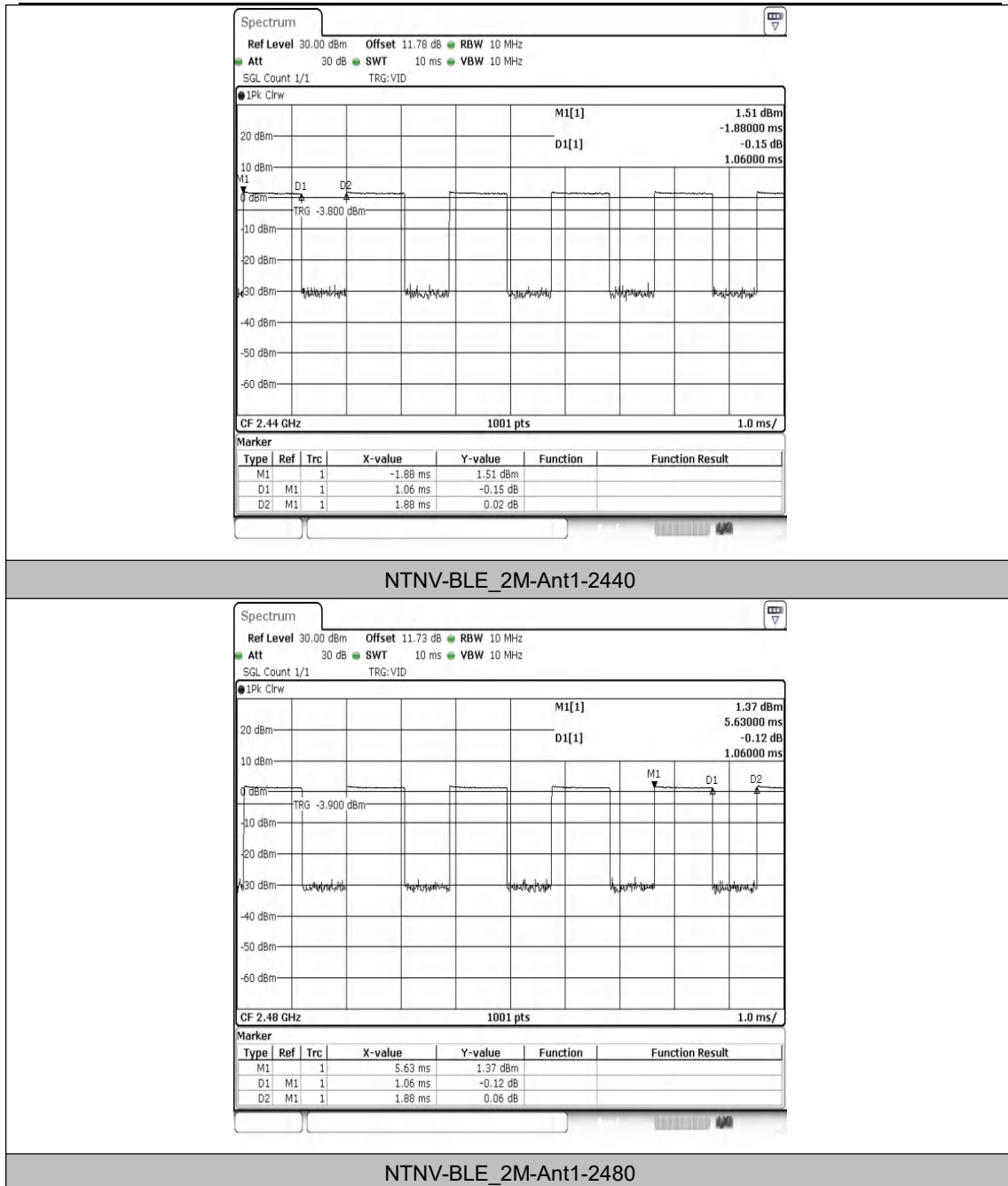
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.10	2.50	84.00	0.76
BLE_1M	Ant1	2440	2.10	2.50	84.00	0.76
BLE_1M	Ant1	2480	2.10	2.51	83.67	0.77
BLE_2M	Ant1	2402	1.06	1.88	56.38	2.49
BLE_2M	Ant1	2440	1.06	1.88	56.38	2.49
BLE_2M	Ant1	2480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



Test Graphs







---End---