

Appendix Test Data

Report No.:	1821C50002812502	Test Sample No.:	1-2-2
Start Test Date:	2025.3.7	Finish Test Date:	2025.3.13
Test Engineer:	Hu Sen Guan	Auditor:	Justin Feng
Temperature:	23.4°C	Relative Humidity:	46%
Pressure:	101kPa		
Test module:	MT6631		

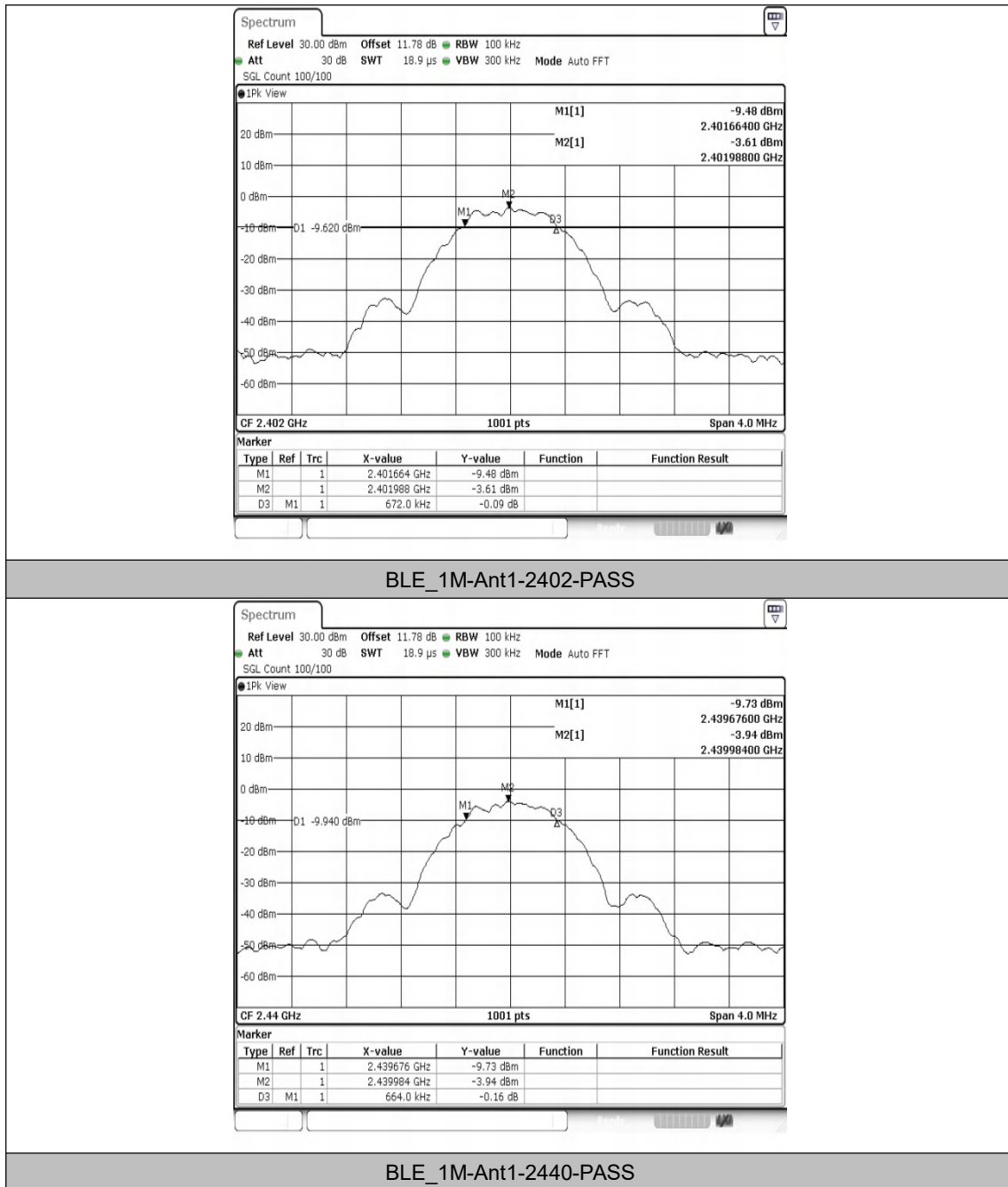
Appendix A: 6dB Bandwidth

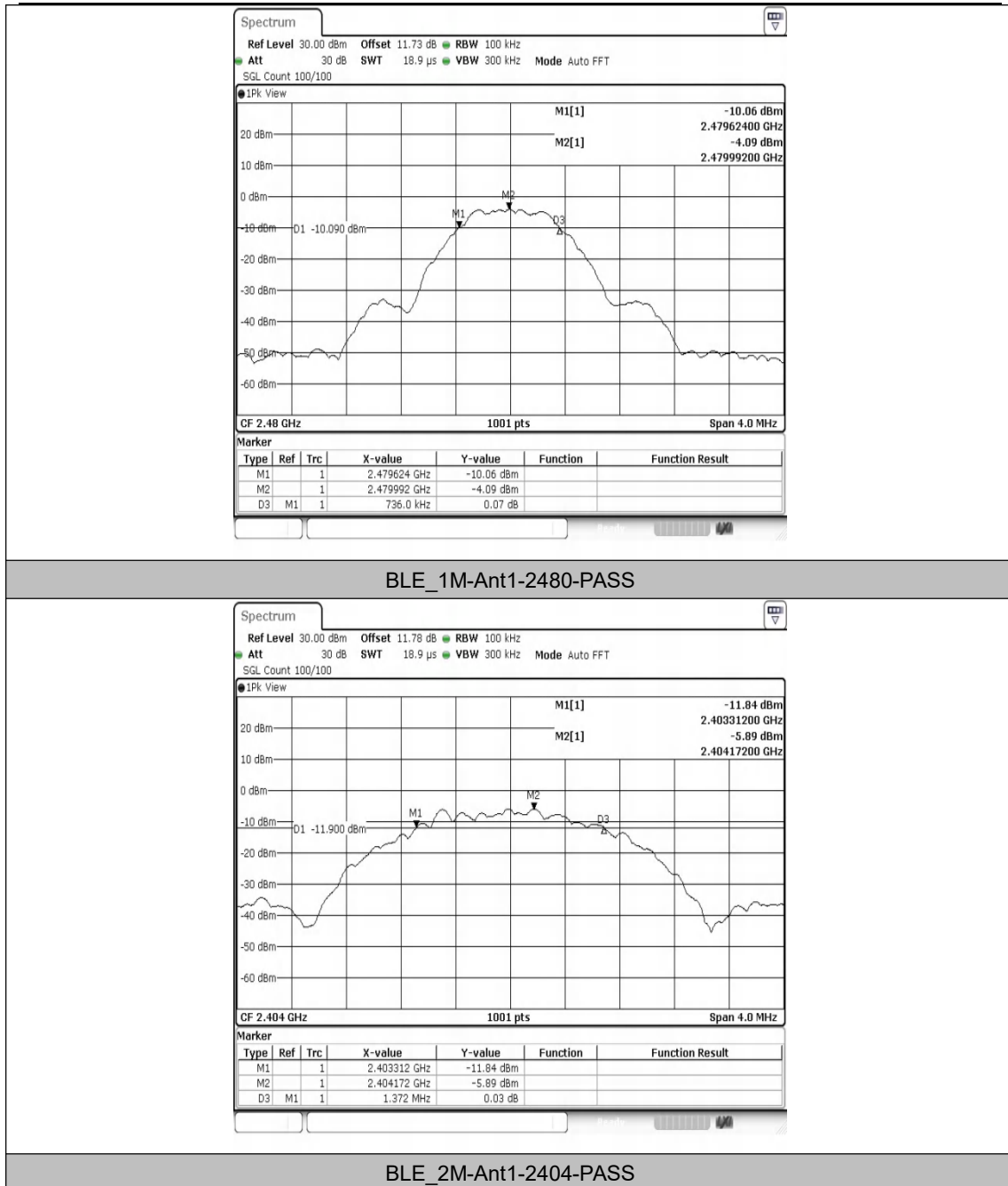
Test Result

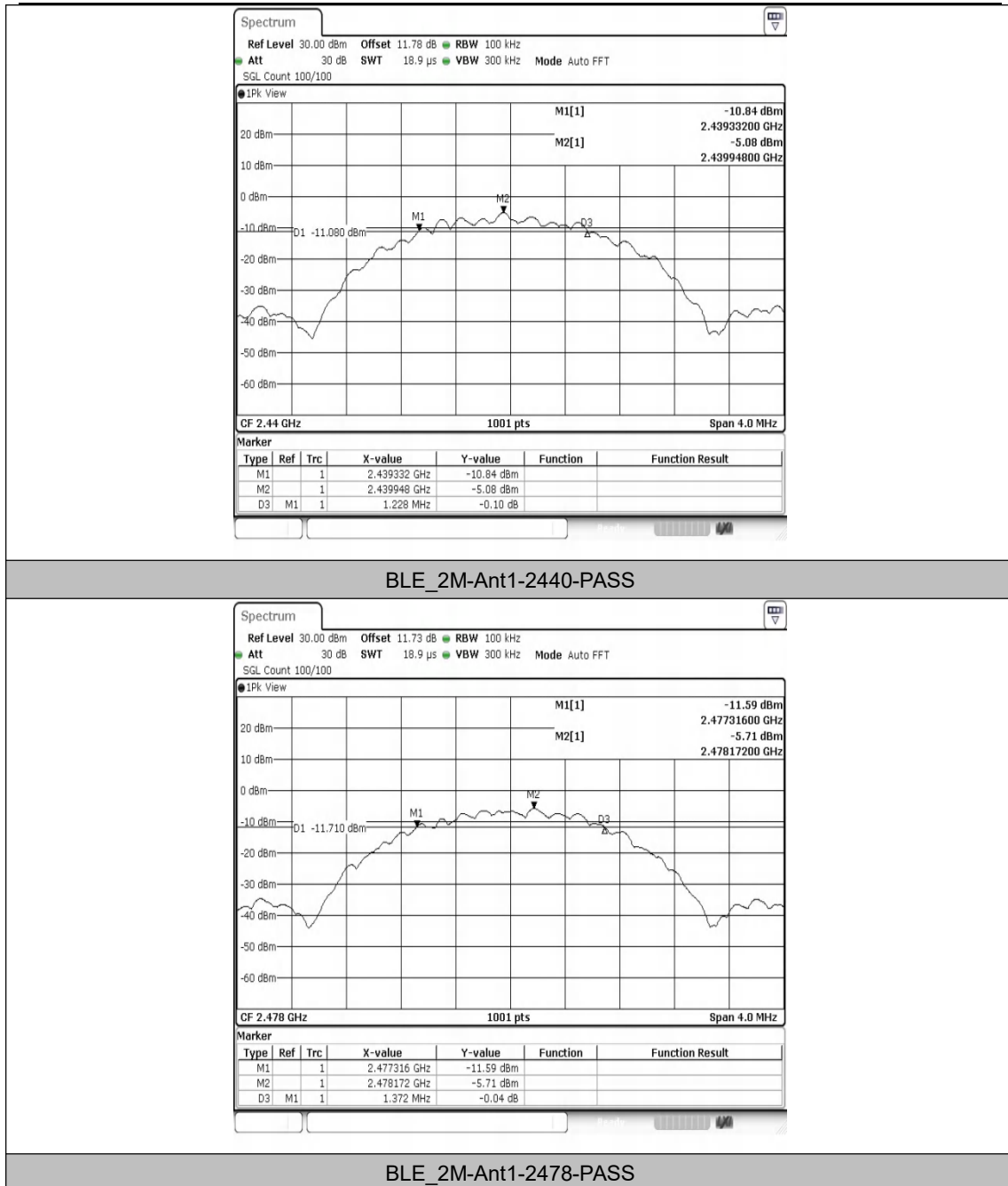
Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.67	2401.66	2402.34	0.5	PASS
BLE_1M	Ant1	2440	0.66	2439.68	2440.34	0.5	PASS
BLE_1M	Ant1	2480	0.74	2479.62	2480.36	0.5	PASS
BLE_2M	Ant1	2404	1.37	2403.31	2404.68	0.5	PASS
BLE_2M	Ant1	2440	1.23	2439.33	2440.56	0.5	PASS
BLE_2M	Ant1	2478	1.37	2477.32	2478.69	0.5	PASS



Test Graphs





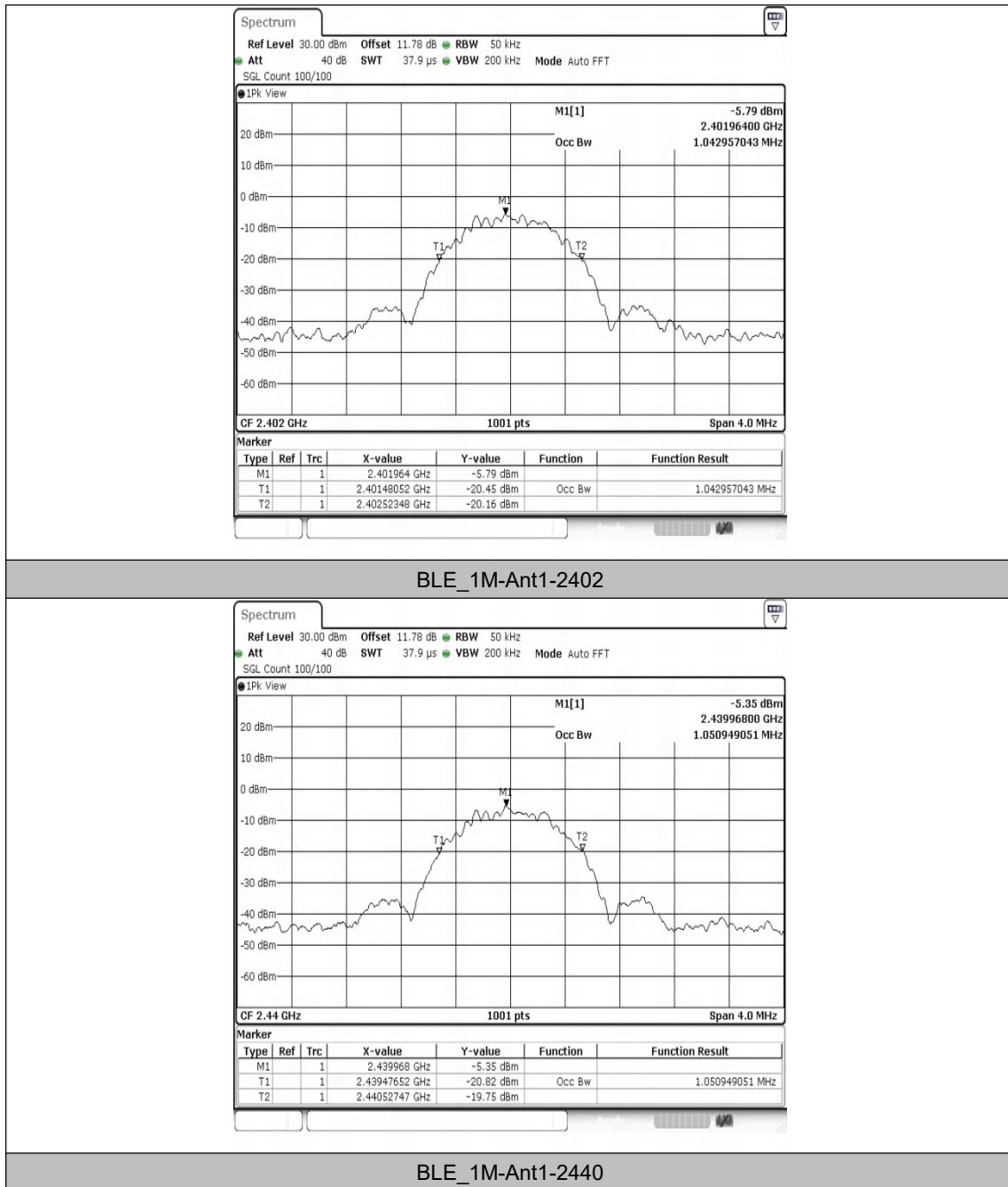


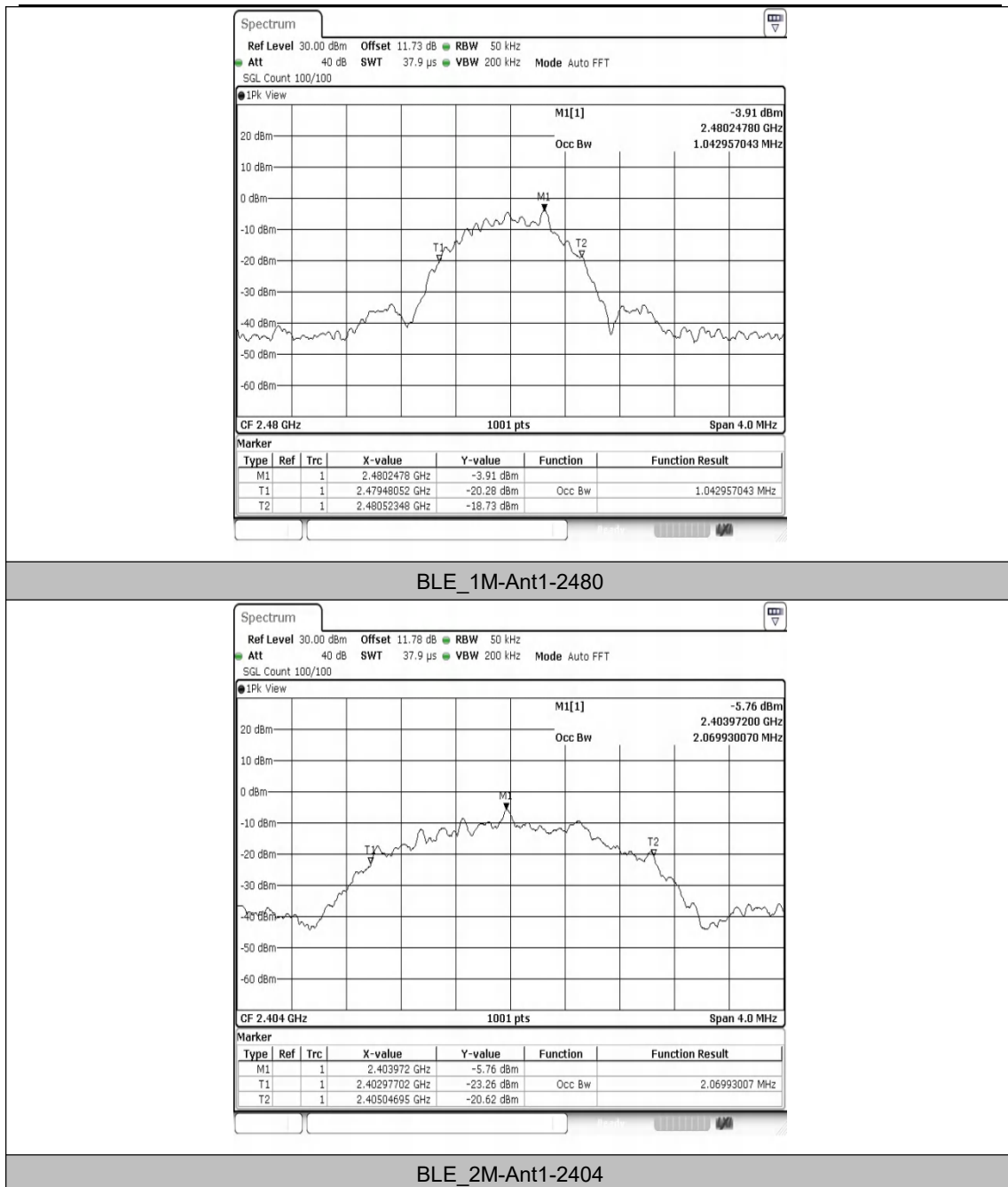
Appendix B: 99% Occupied Bandwidth

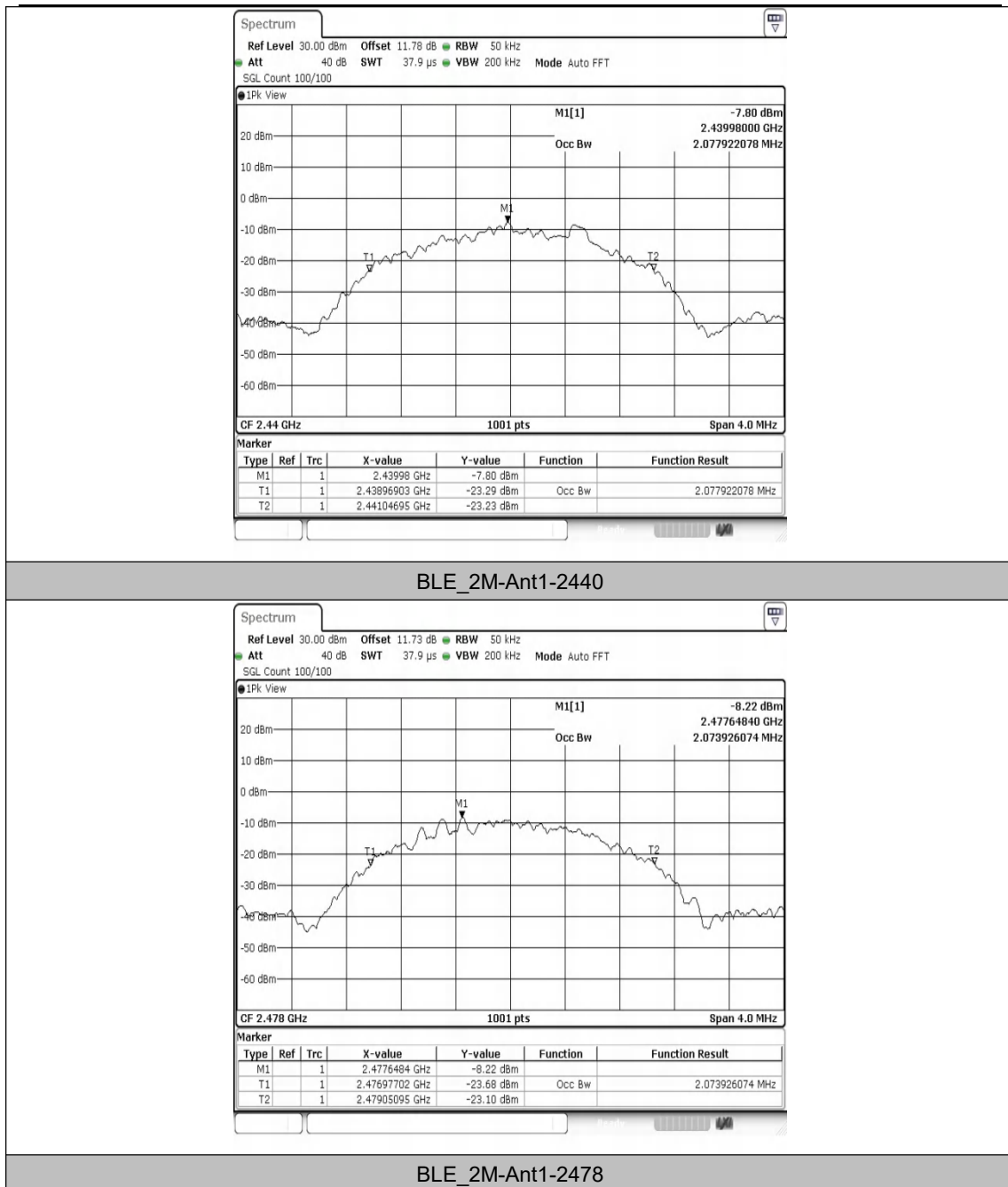
Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.043	2401.4805	2402.5235	---	---
BLE_1M	Ant1	2440	1.051	2439.4765	2440.5275	---	---
BLE_1M	Ant1	2480	1.043	2479.4805	2480.5235	---	---
BLE_2M	Ant1	2404	2.07	2402.9770	2405.0470	---	---
BLE_2M	Ant1	2440	2.078	2438.9690	2441.0470	---	---
BLE_2M	Ant1	2478	2.074	2476.9770	2479.0509	---	---

Test Graphs





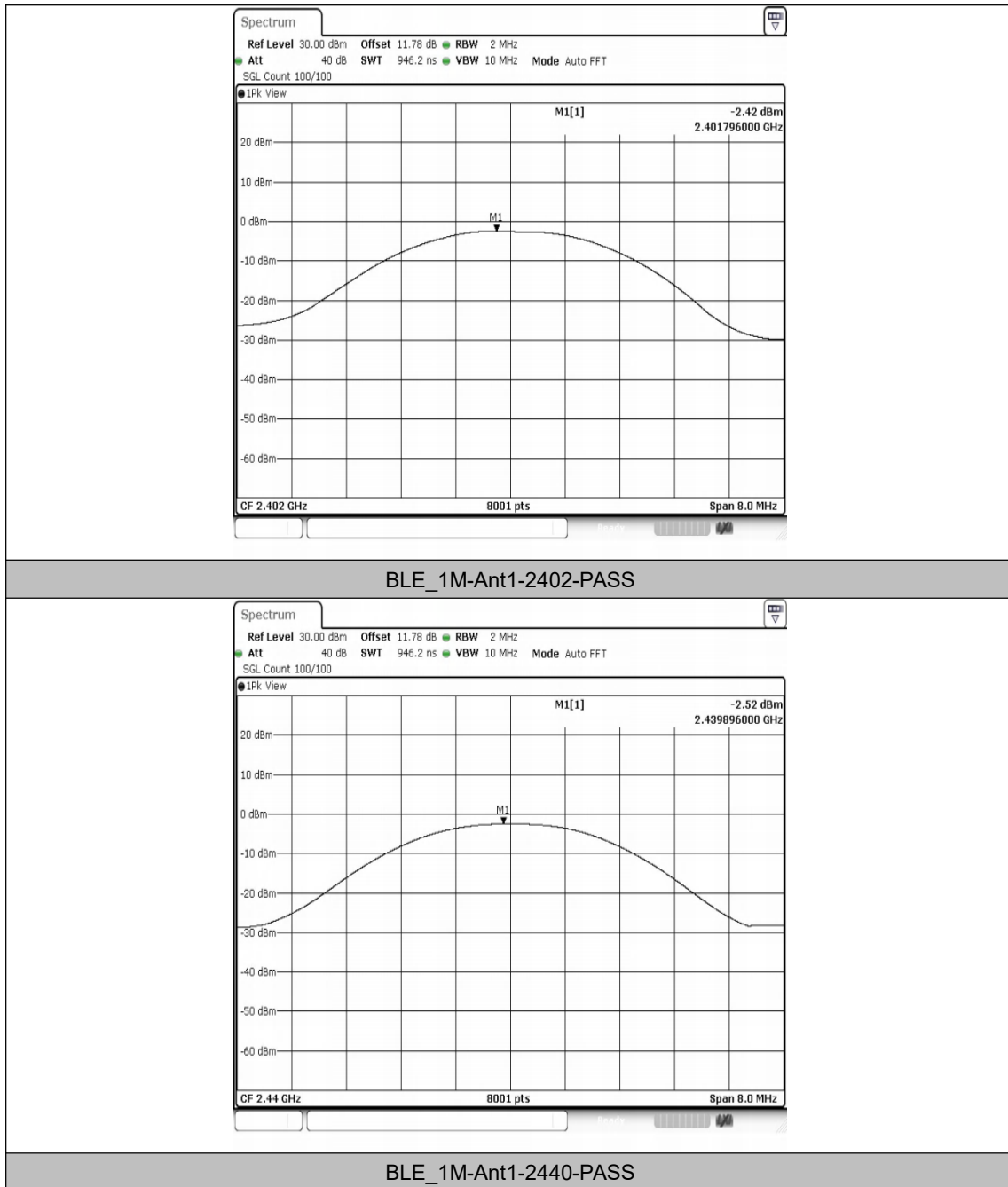


Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.42	≤30	PASS
BLE_1M	Ant1	2440	-2.52	≤30	PASS
BLE_1M	Ant1	2480	-2.12	≤30	PASS
BLE_2M	Ant1	2404	-2.52	≤30	PASS
BLE_2M	Ant1	2440	-2.55	≤30	PASS
BLE_2M	Ant1	2478	-2.32	≤30	PASS

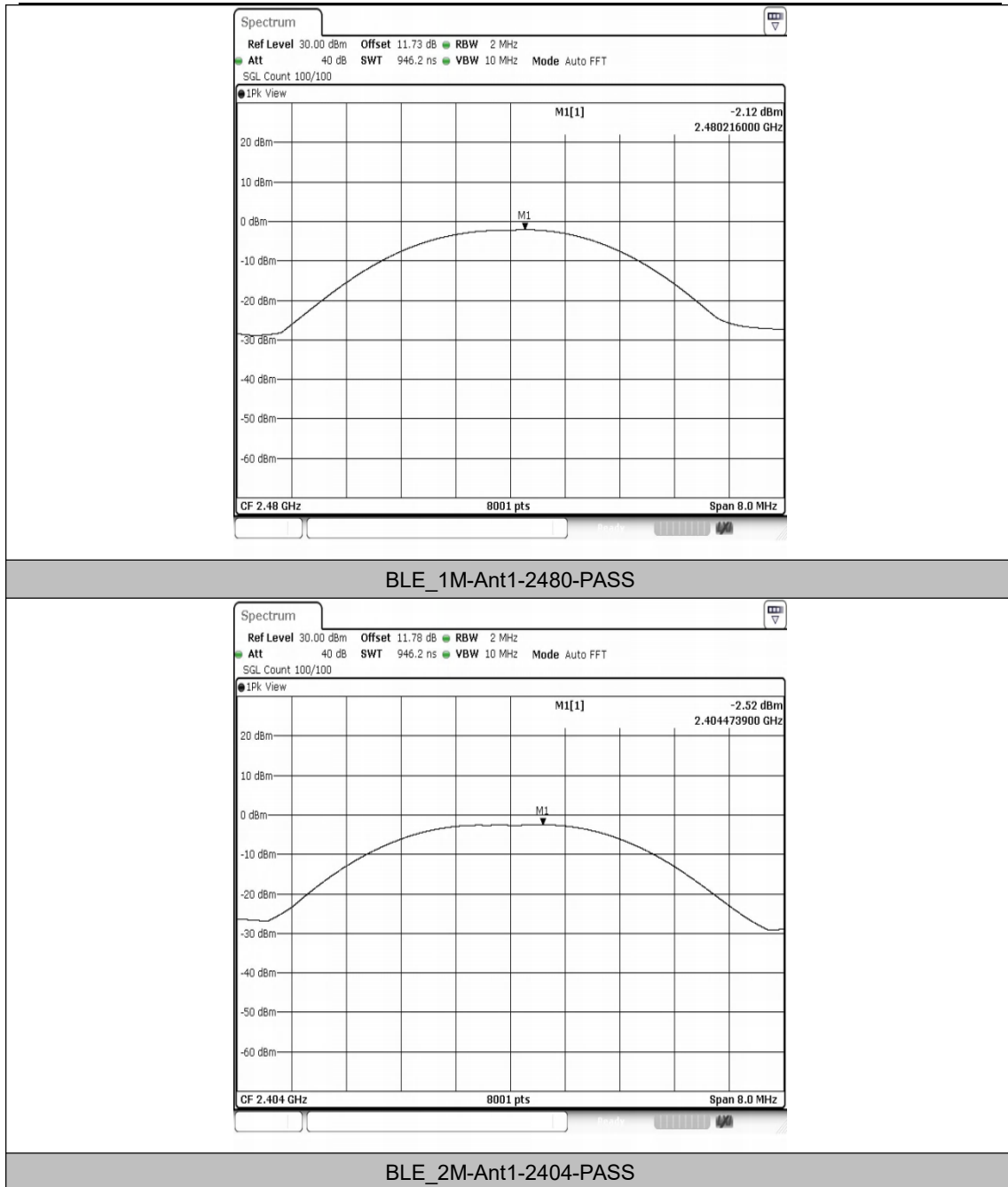
Test Graphs Peak



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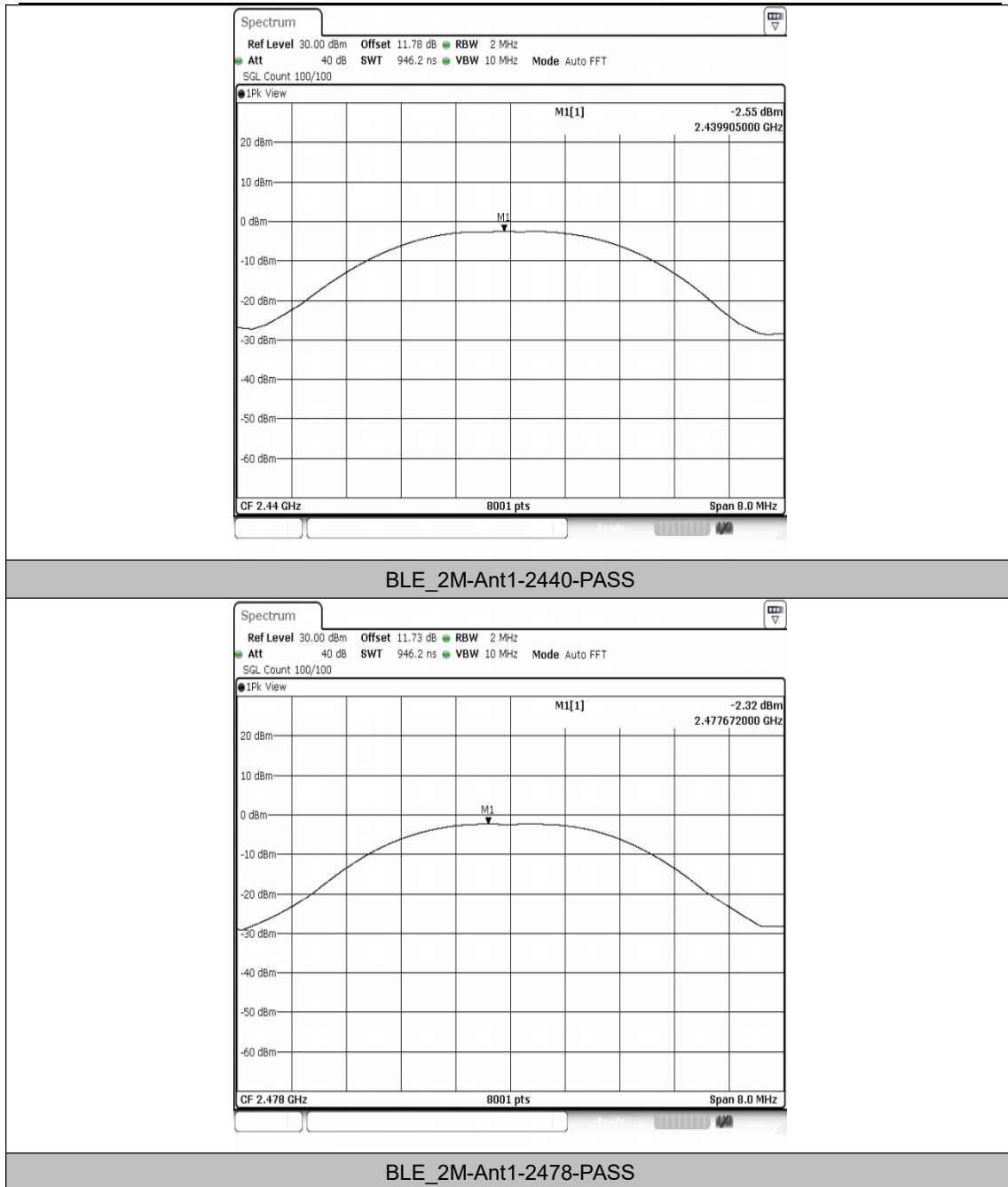
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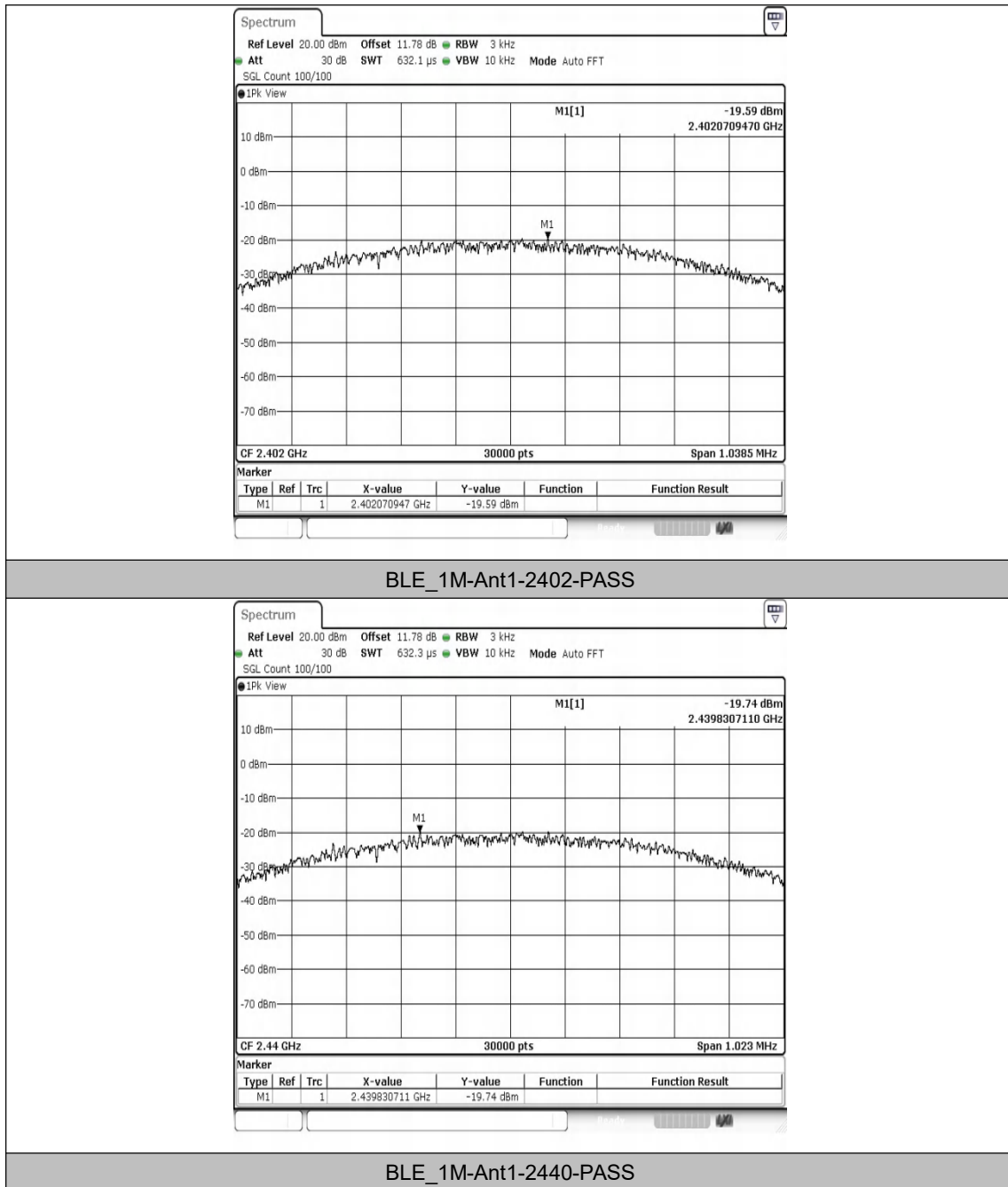
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.59	≤8.00	PASS
BLE_1M	Ant1	2440	-19.74	≤8.00	PASS
BLE_1M	Ant1	2480	-19.36	≤8.00	PASS
BLE_2M	Ant1	2404	-21.60	≤8.00	PASS
BLE_2M	Ant1	2440	-21.61	≤8.00	PASS
BLE_2M	Ant1	2478	-21.32	≤8.00	PASS

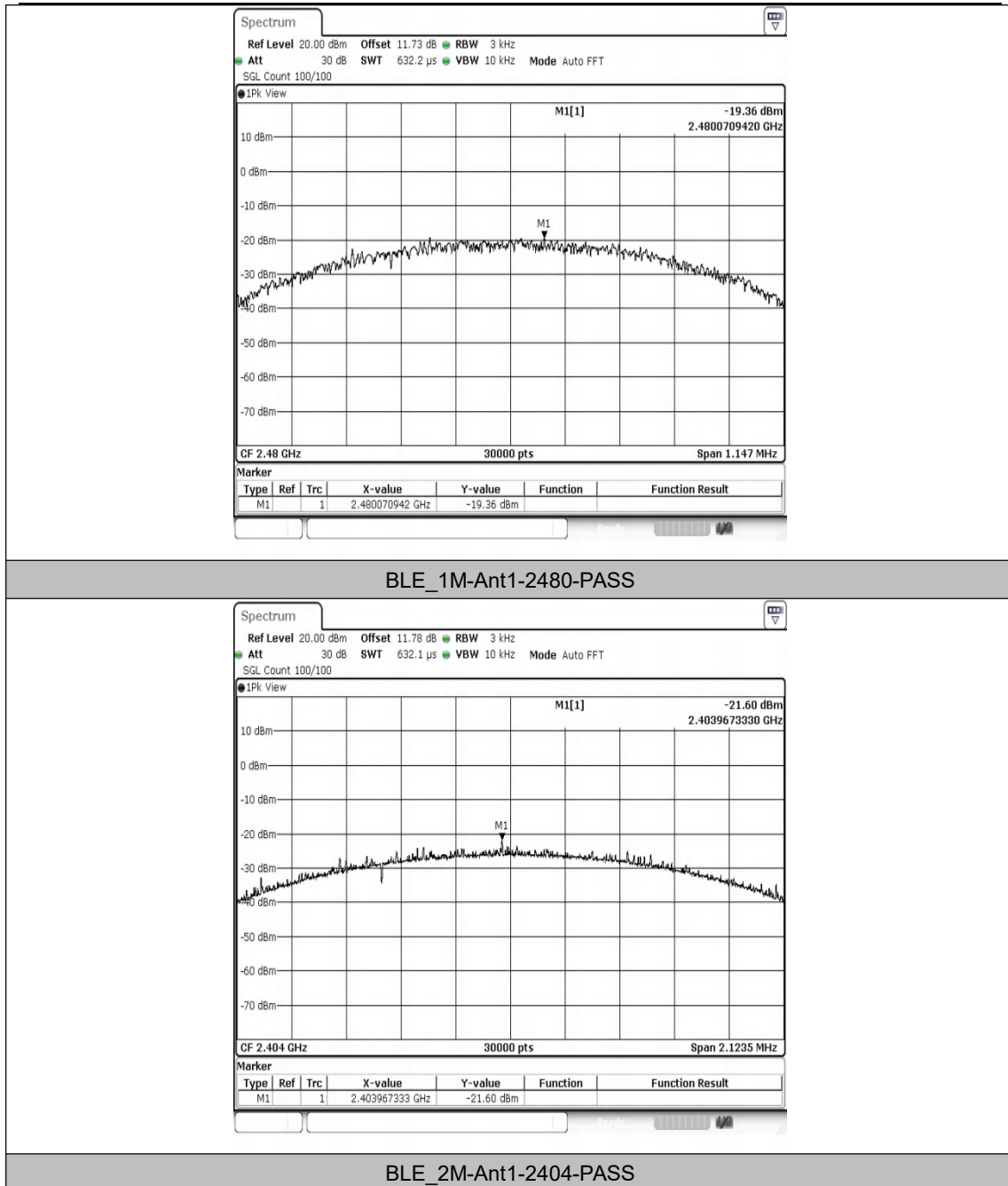
Test Graphs



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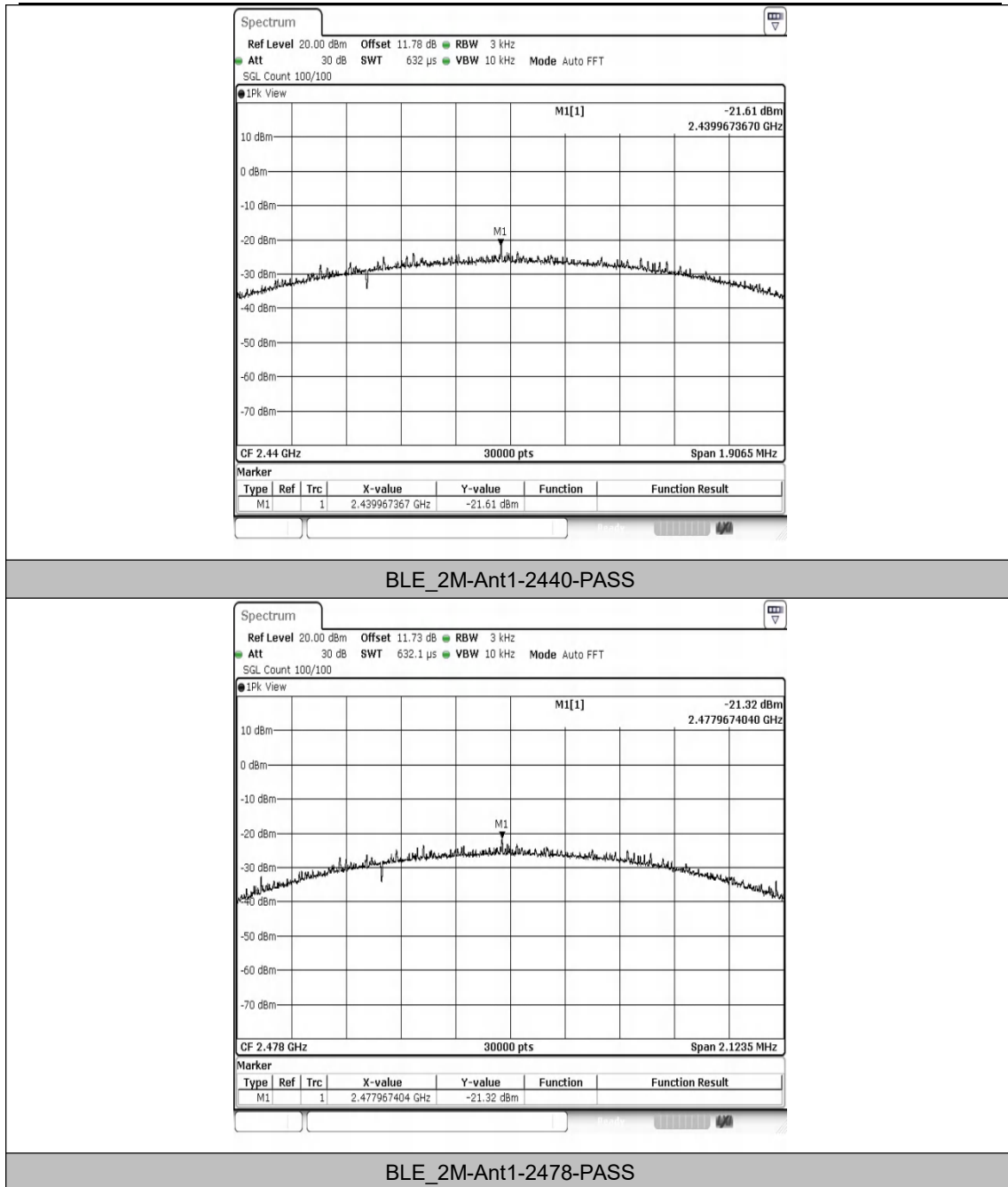
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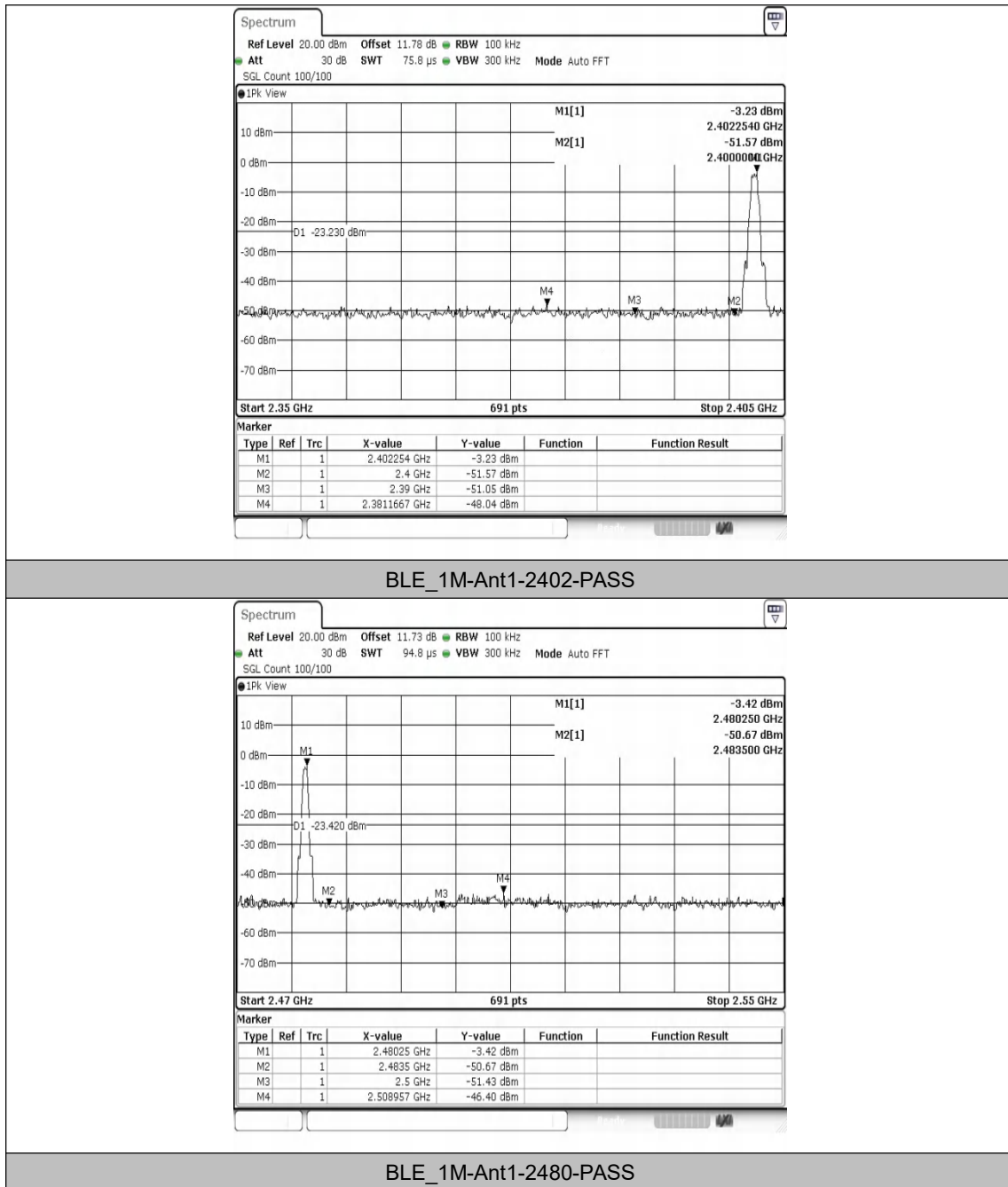
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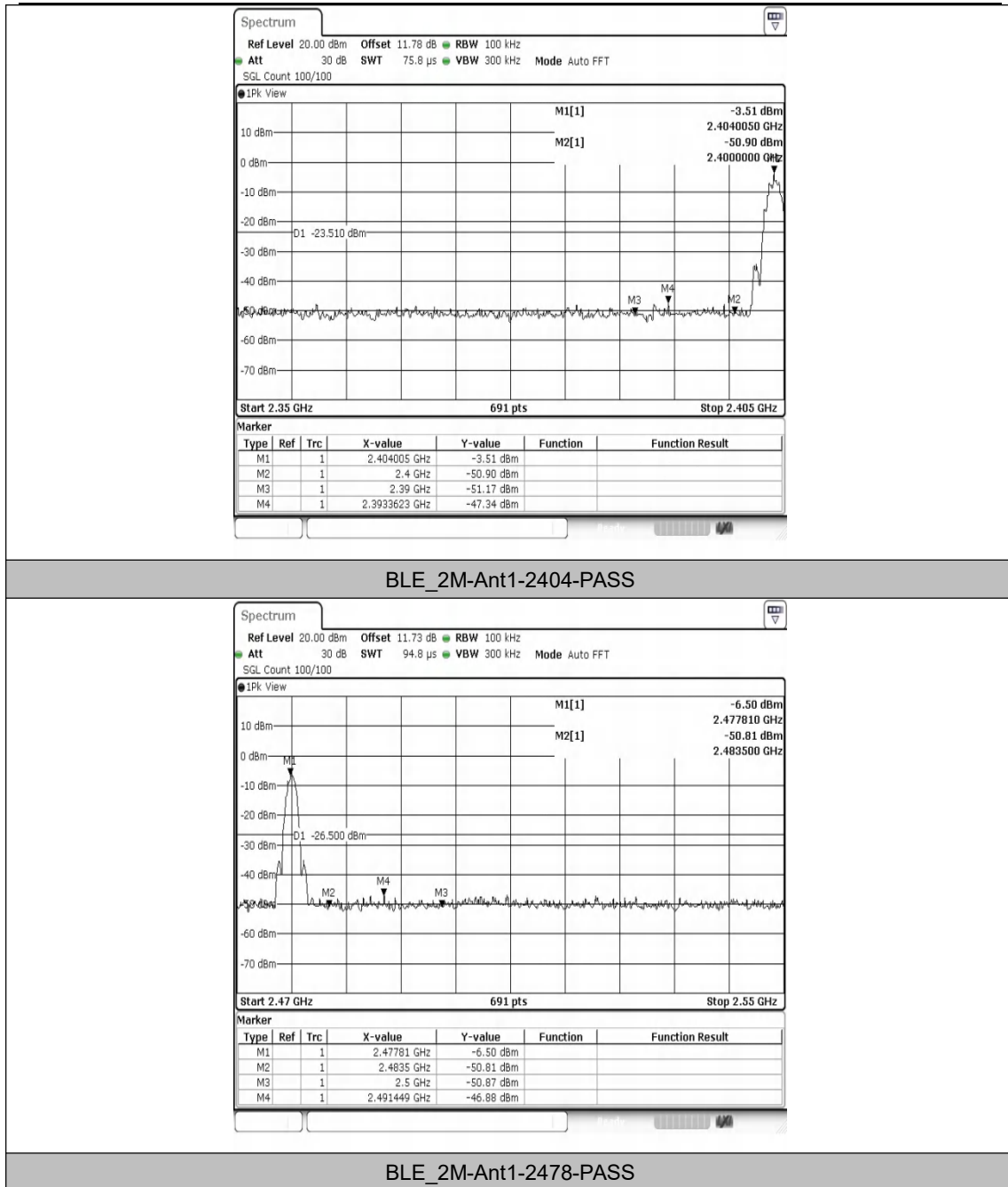
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.23	-48.04	≤-23.23	PASS
BLE_1M	Ant1	High	2480	-3.42	-46.4	≤-23.42	PASS
BLE_2M	Ant1	Low	2404	-3.51	-47.34	≤-23.51	PASS
BLE_2M	Ant1	High	2478	-6.50	-46.88	≤-26.5	PASS

Test Graphs



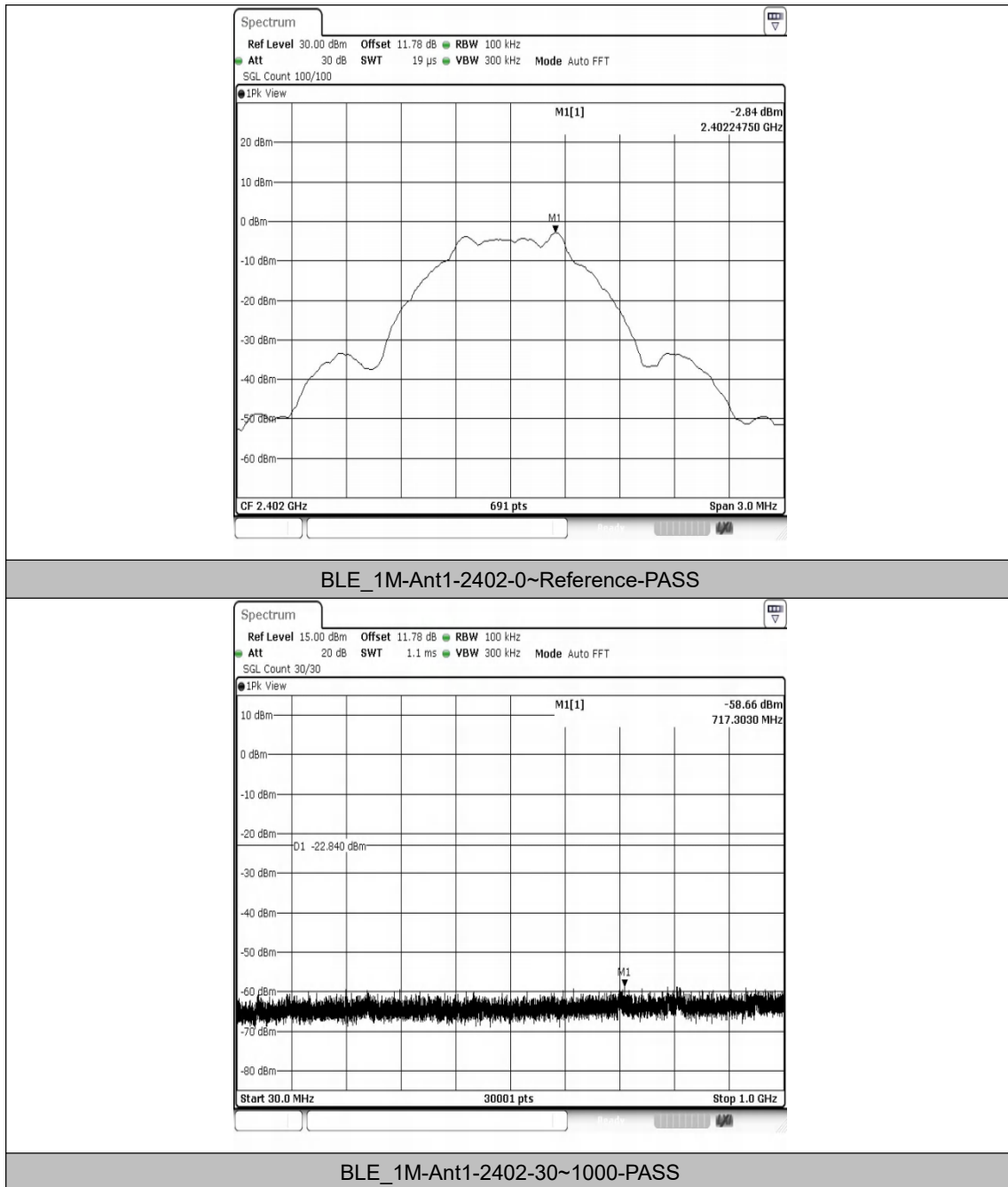


Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-2.84	-2.84	---	PASS
BLE_1M	Ant1	2402	30~1000	-2.84	-58.66	≤-22.84	PASS
BLE_1M	Ant1	2402	1000~26500	-2.84	-43.56	≤-22.84	PASS
BLE_1M	Ant1	2440	0~Reference	-3.04	-3.04	---	PASS
BLE_1M	Ant1	2440	30~1000	-3.04	-57.66	≤-23.04	PASS
BLE_1M	Ant1	2440	1000~26500	-3.04	-43.94	≤-23.04	PASS
BLE_1M	Ant1	2480	0~Reference	-2.75	-2.75	---	PASS
BLE_1M	Ant1	2480	30~1000	-2.75	-58.73	≤-22.75	PASS
BLE_1M	Ant1	2480	1000~26500	-2.75	-44.44	≤-22.75	PASS
BLE_2M	Ant1	2404	0~Reference	-6.13	-6.13	---	PASS
BLE_2M	Ant1	2404	30~1000	-6.13	-57.6	≤-26.13	PASS
BLE_2M	Ant1	2404	1000~26500	-6.13	-43.34	≤-26.13	PASS
BLE_2M	Ant1	2440	0~Reference	-6.30	-6.30	---	PASS
BLE_2M	Ant1	2440	30~1000	-6.30	-57.63	≤-26.3	PASS
BLE_2M	Ant1	2440	1000~26500	-6.30	-44.07	≤-26.3	PASS
BLE_2M	Ant1	2478	0~Reference	-5.49	-5.49	---	PASS
BLE_2M	Ant1	2478	30~1000	-5.49	-57.08	≤-25.49	PASS
BLE_2M	Ant1	2478	1000~26500	-5.49	-43.67	≤-25.49	PASS

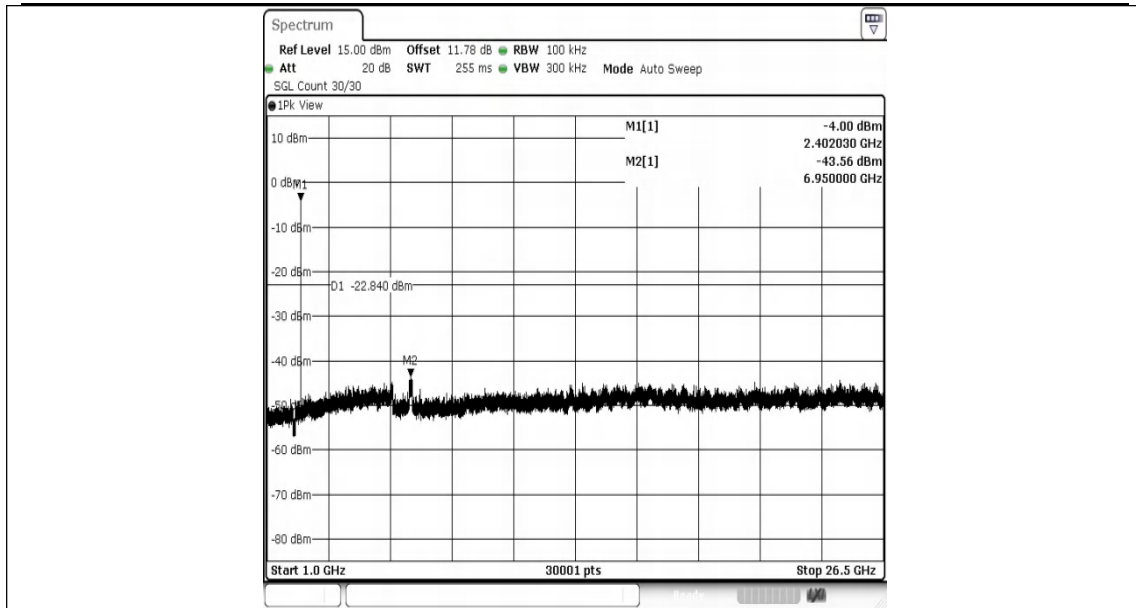
Test Graphs



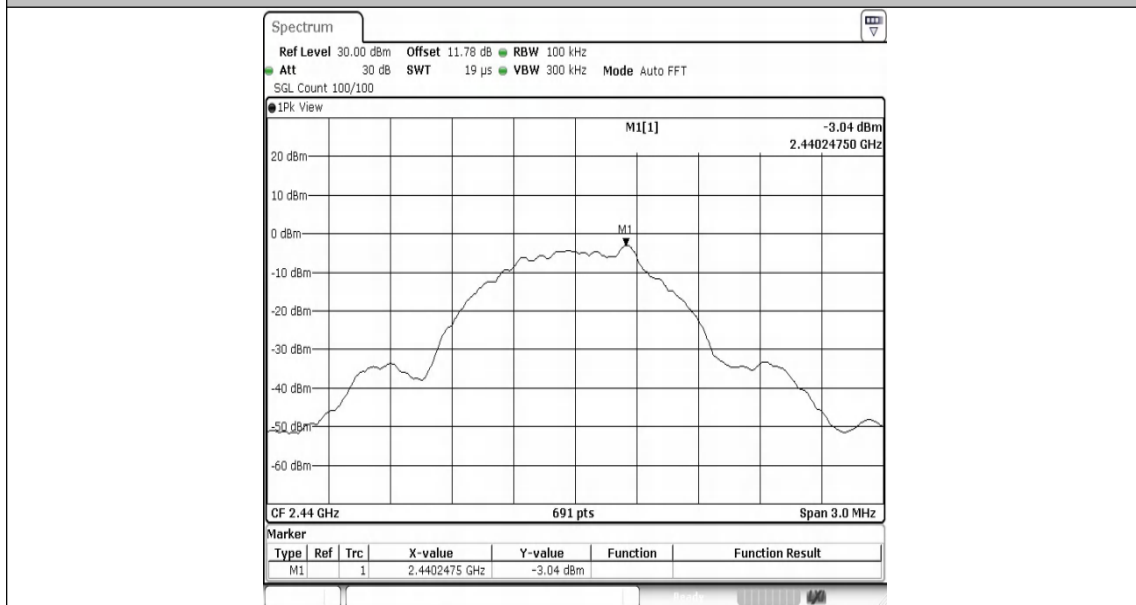
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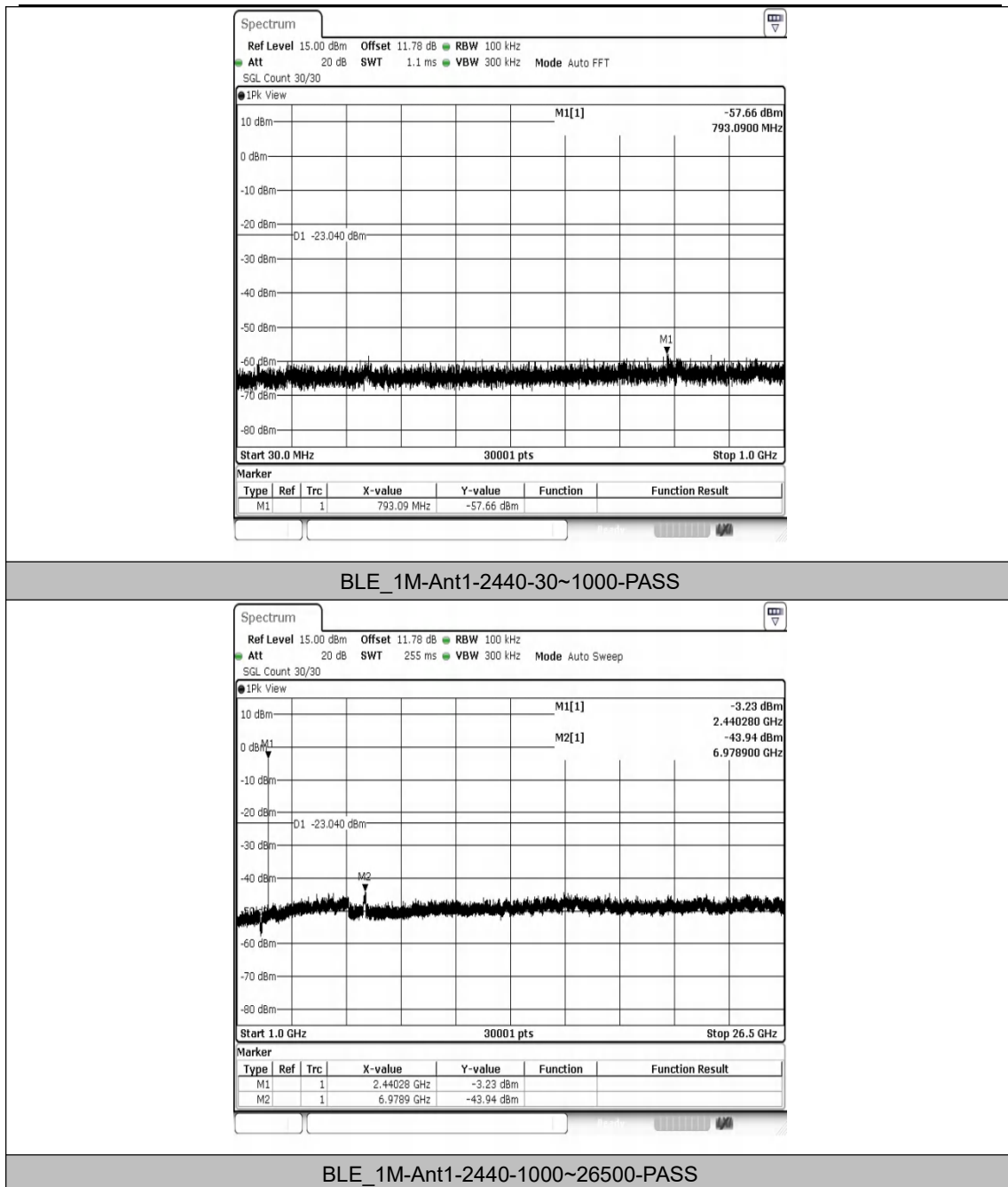
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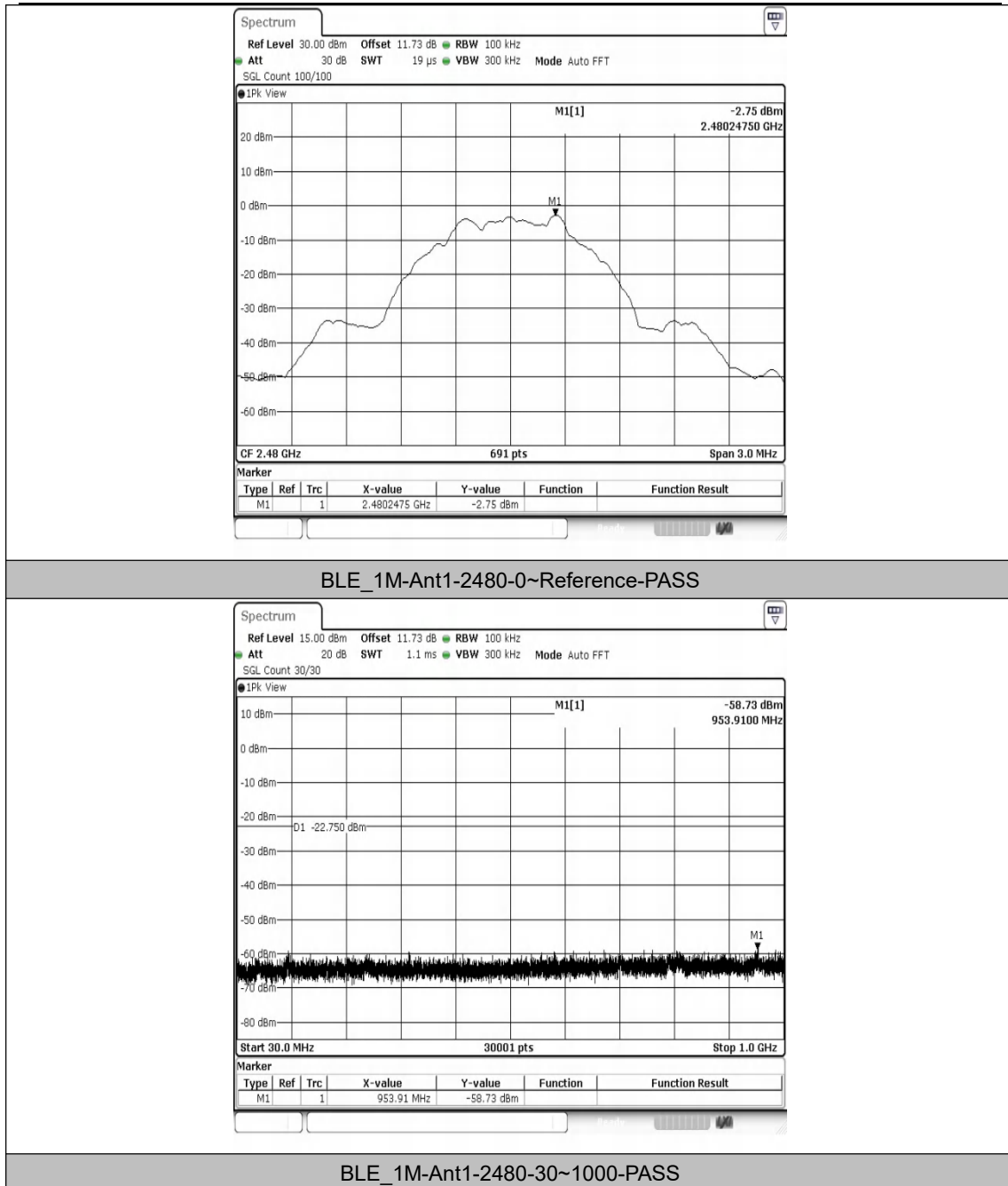


BLE_1M-Ant1-2402-1000~26500-PASS



BLE_1M-Ant1-2440-0~Reference-PASS





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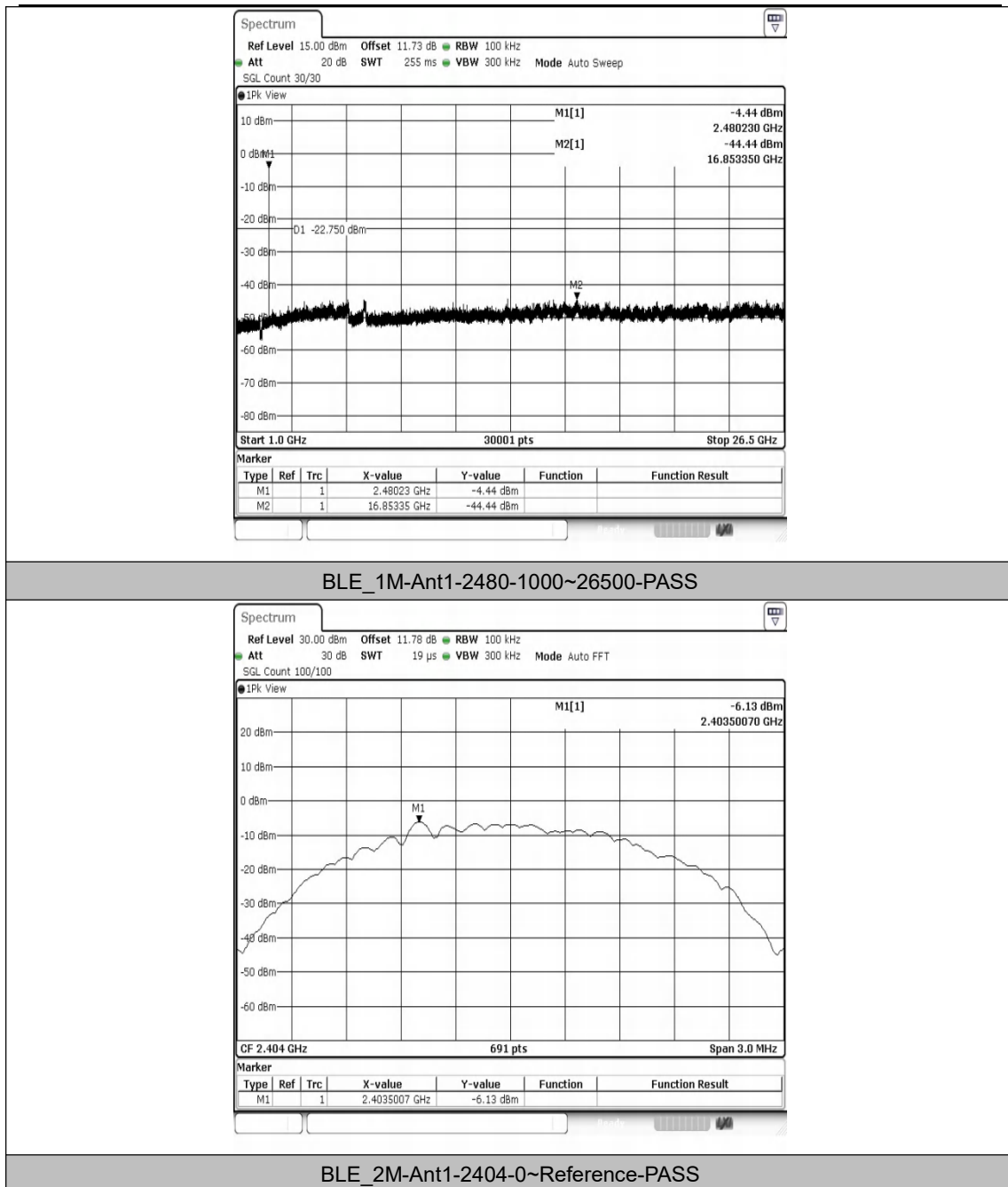
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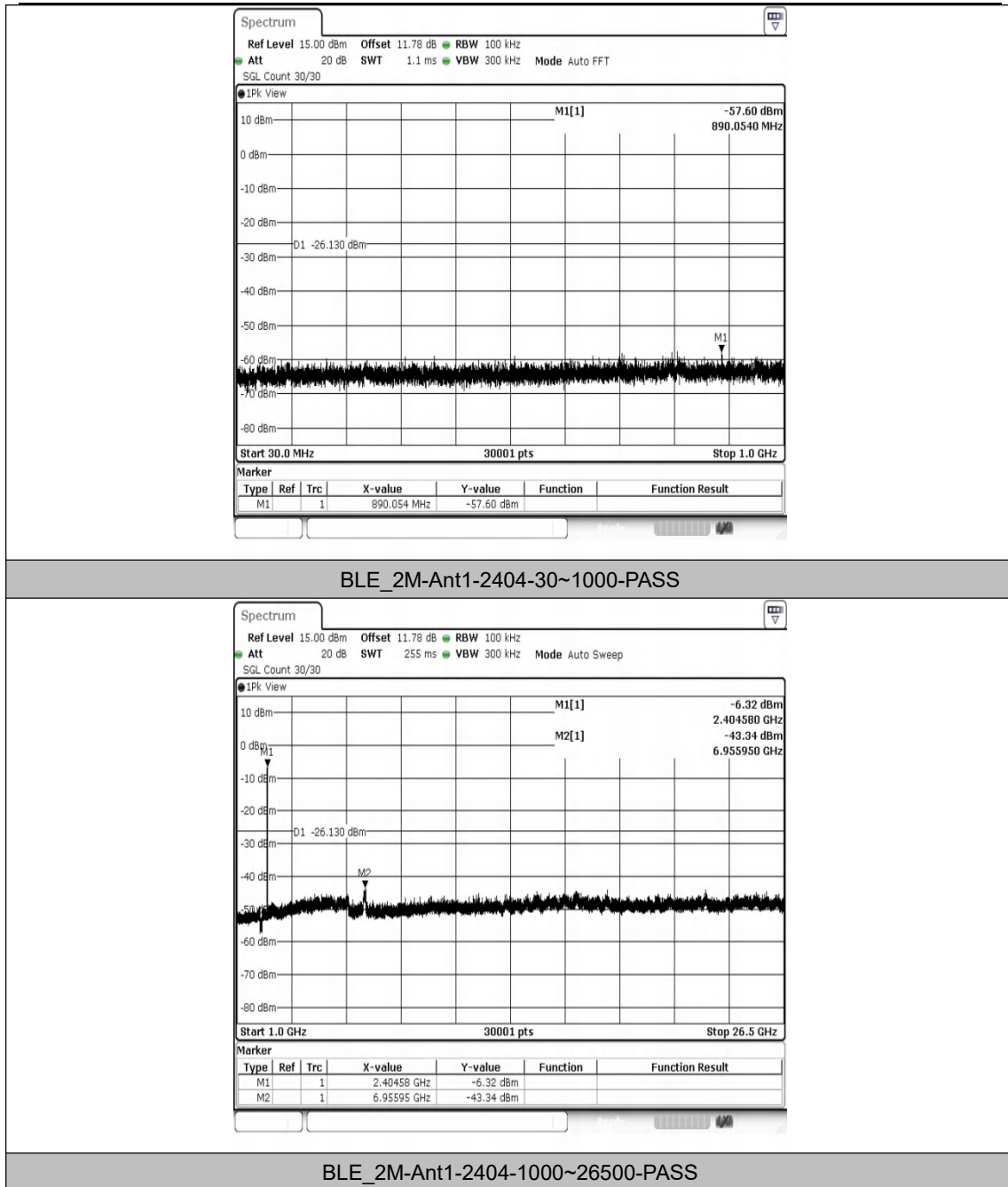
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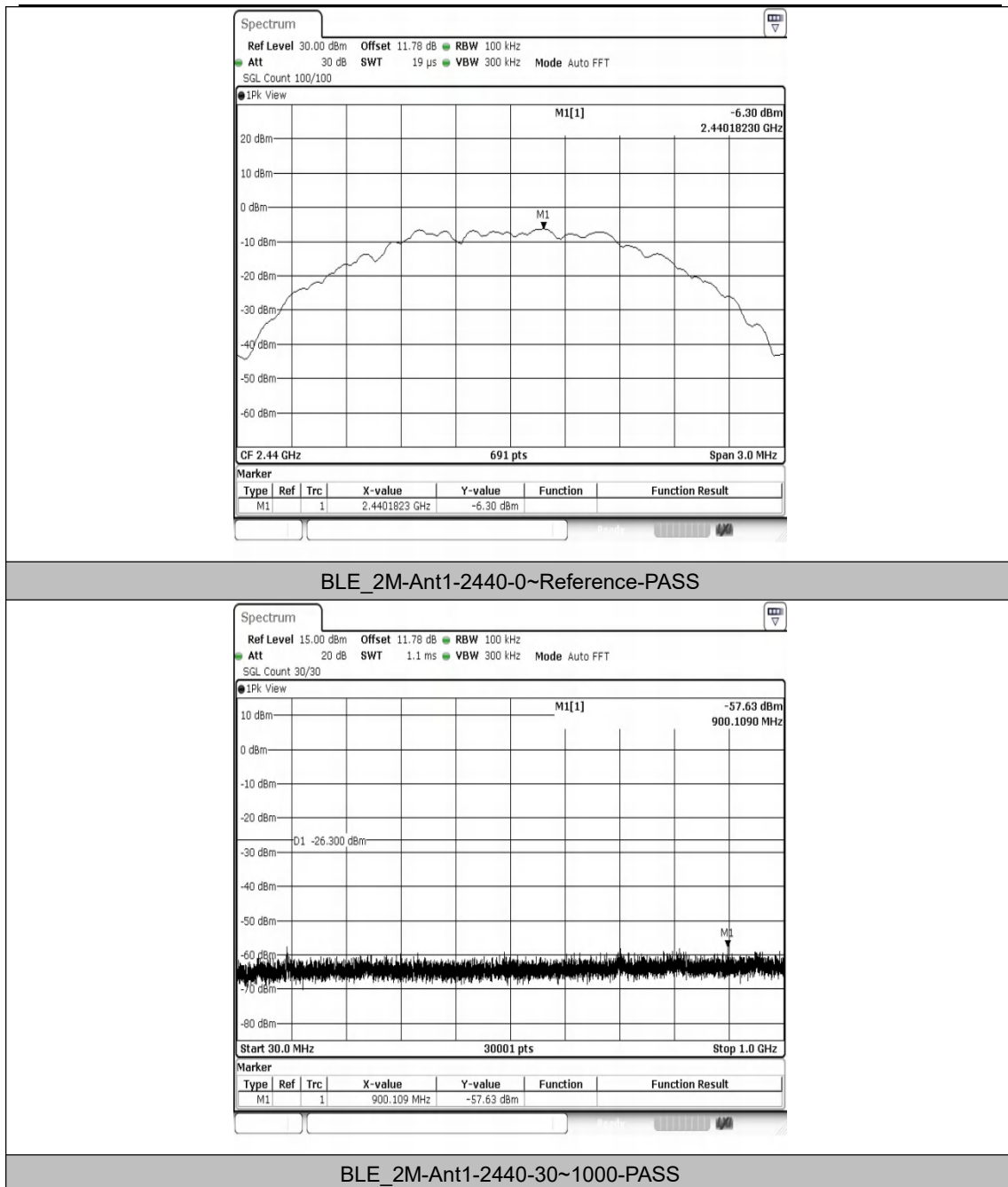
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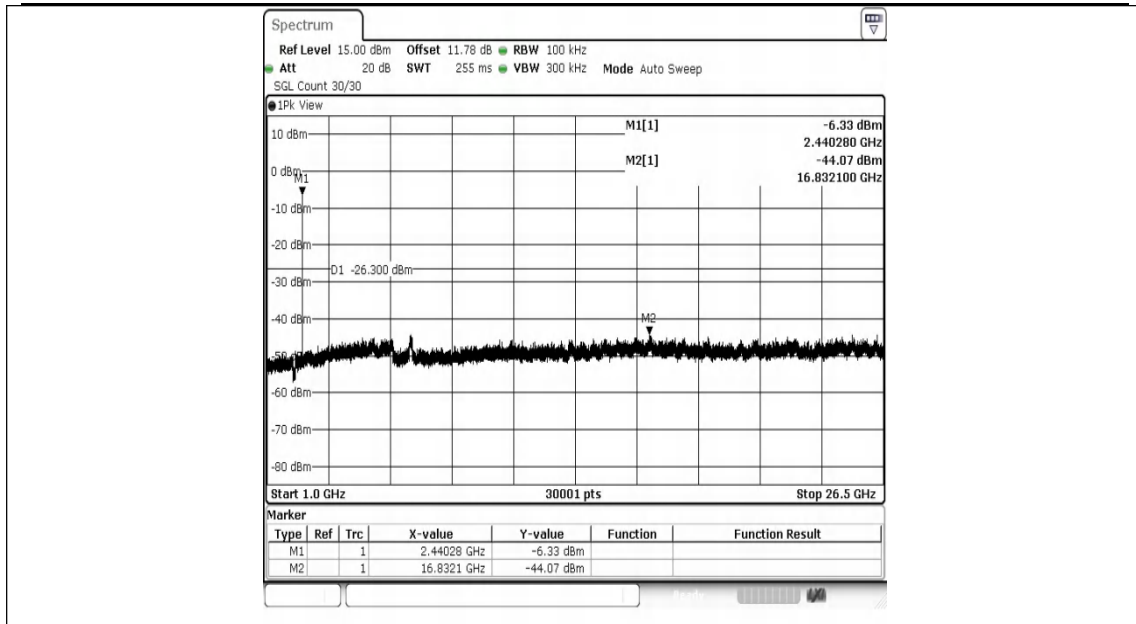
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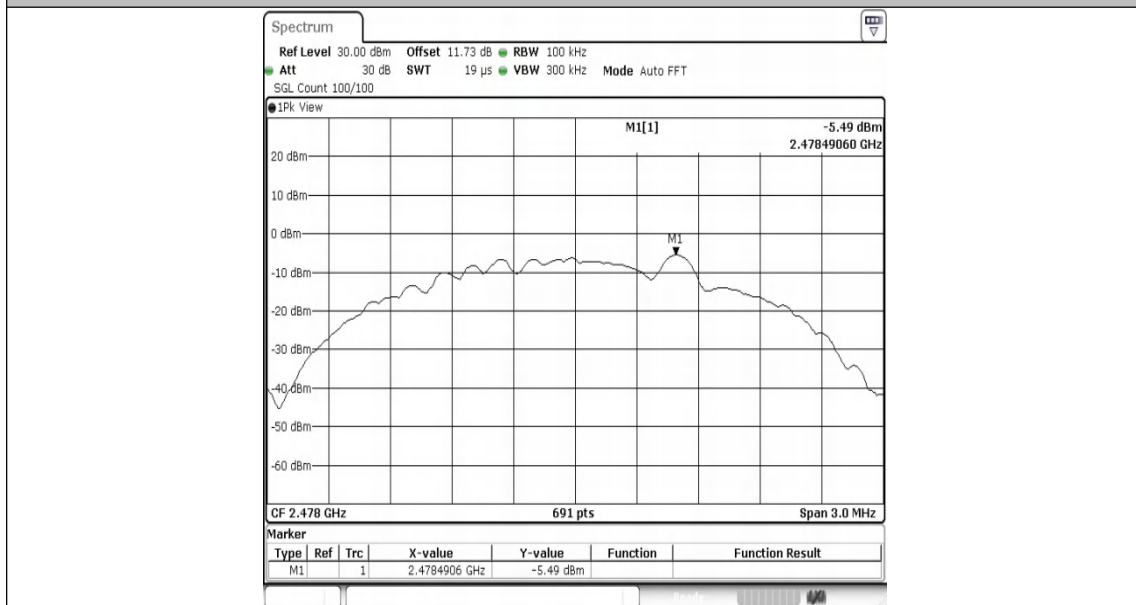


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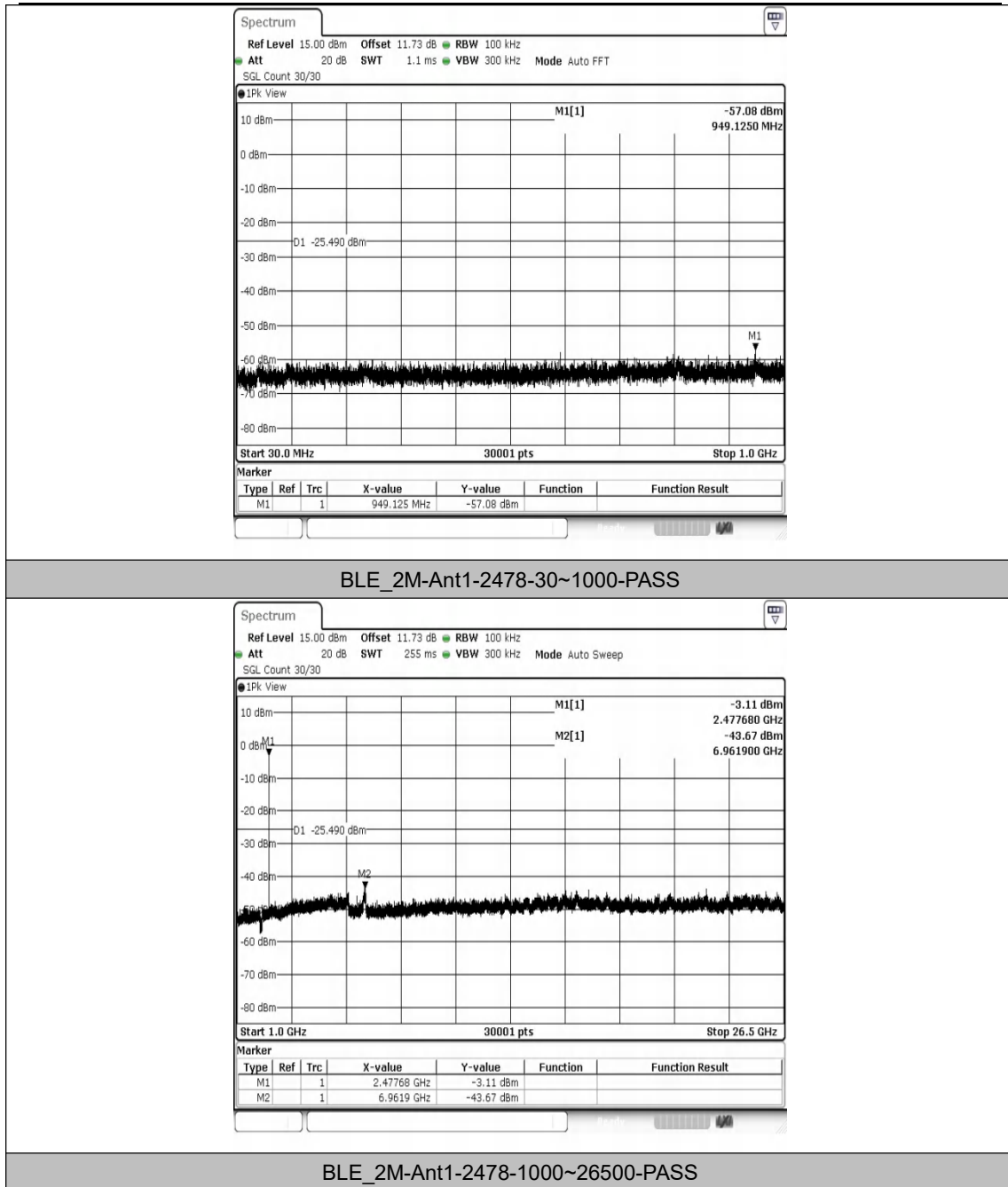
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BLE_2M-Ant1-2440-1000~26500-PASS



BLE_2M-Ant1-2478-0~Reference-PASS



Appendix G: Duty Cycle

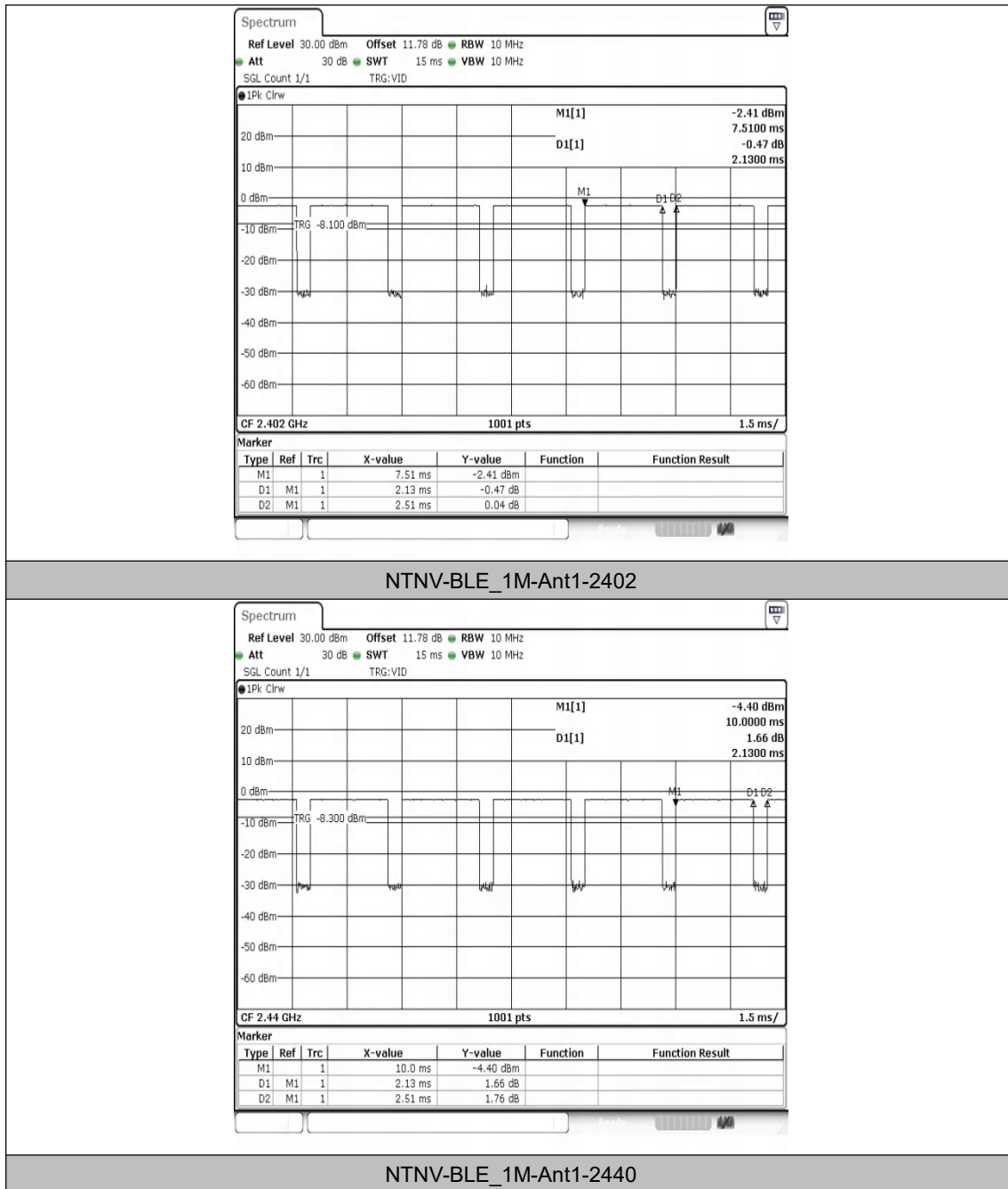
Test Result

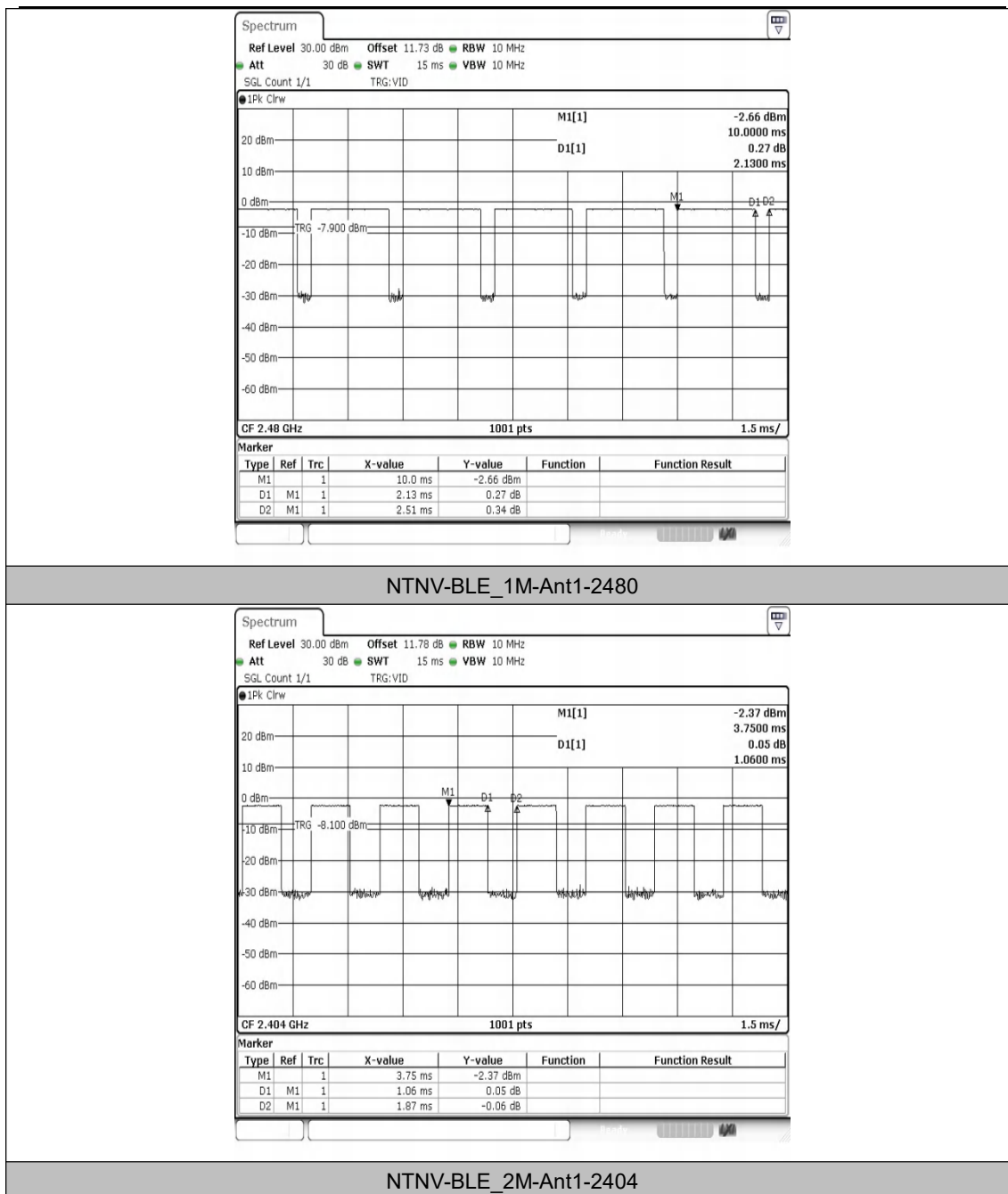
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	2.51	84.86	0.71
BLE_1M	Ant1	2440	2.13	2.51	84.86	0.71
BLE_1M	Ant1	2480	2.13	2.51	84.86	0.71
BLE_2M	Ant1	2404	1.06	1.87	56.68	2.47
BLE_2M	Ant1	2440	1.06	1.87	56.68	2.47
BLE_2M	Ant1	2478	1.06	1.87	56.68	2.47

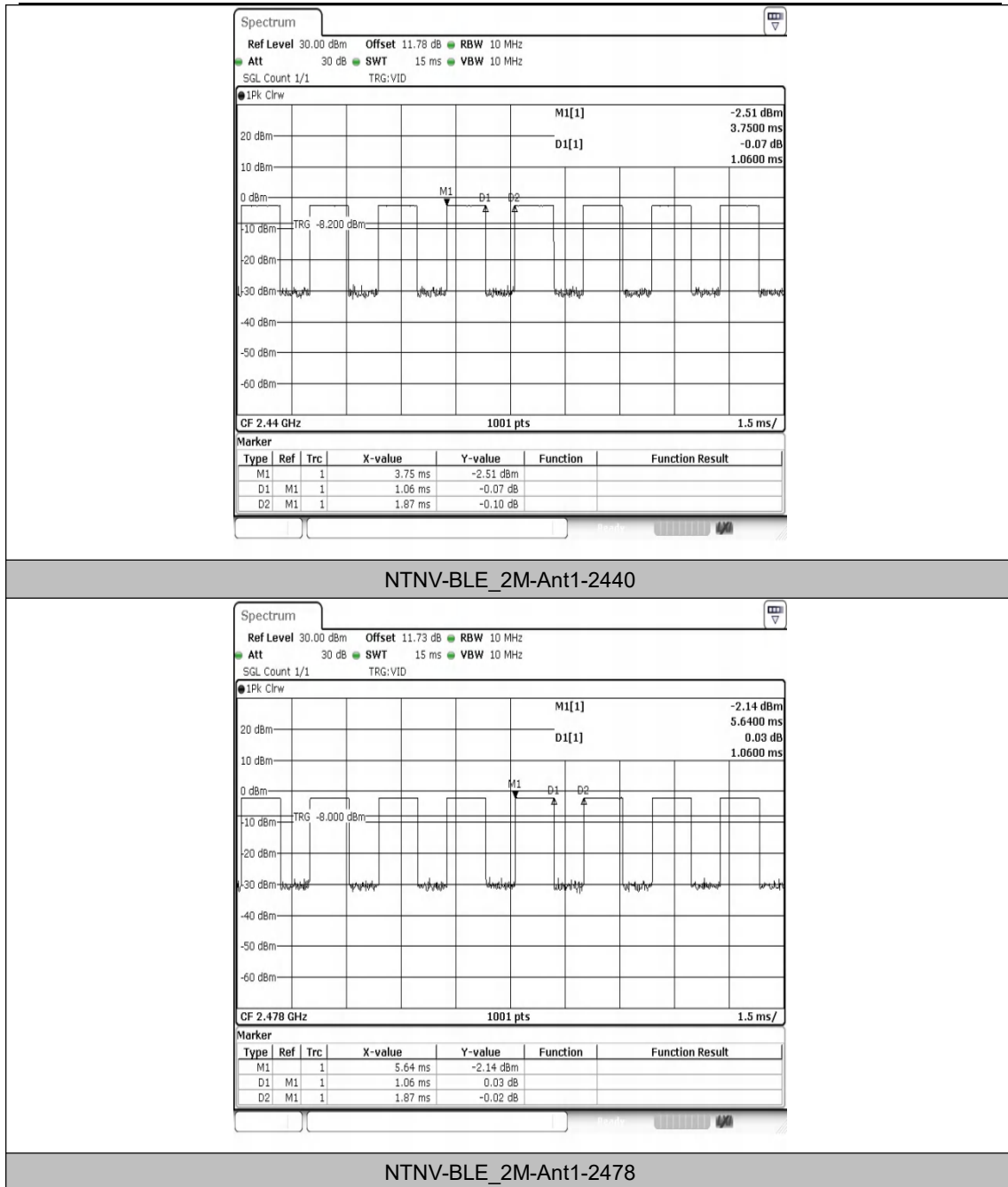
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Test Graphs







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