

Appendix Test Data

Report No:	1812C40119812502	Test Sample NO:	1-2-2
Start Test Date:	2024.11.5	Finish Test Date:	2024.11.5
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24.7°C	Relative Humidity:	56%
Pressure:	101 kPa		

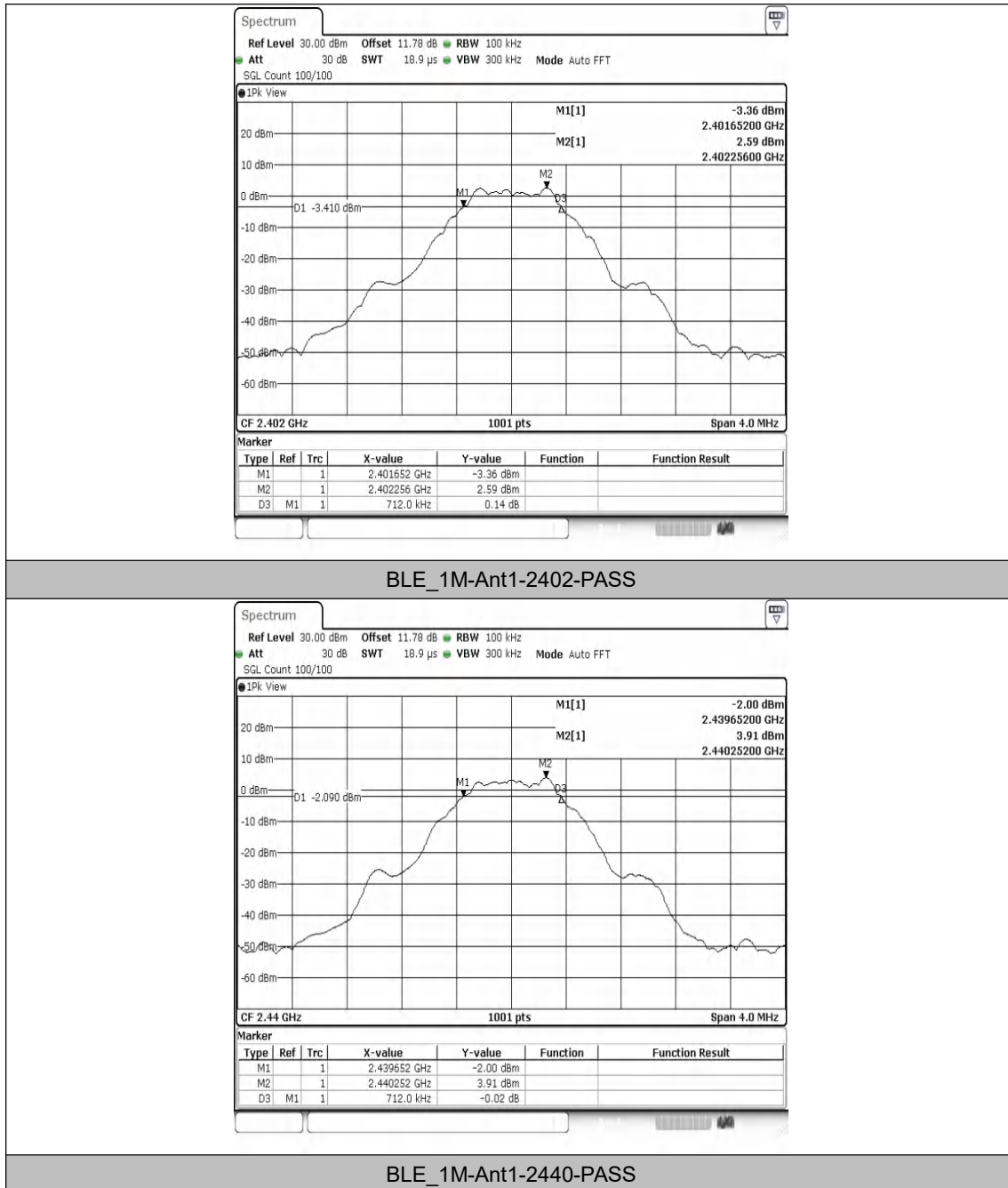
Appendix A: DTS Bandwidth

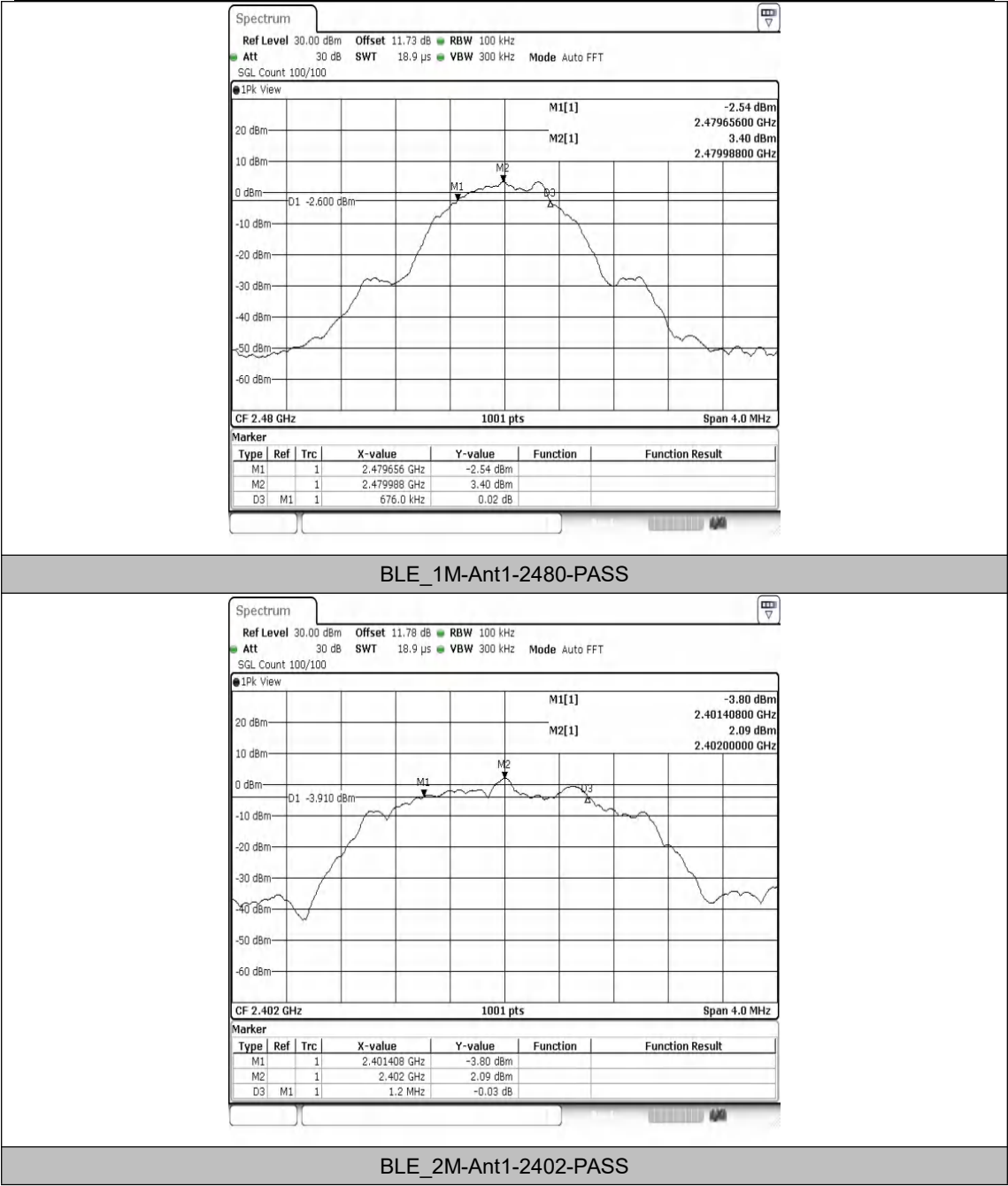
Test Result

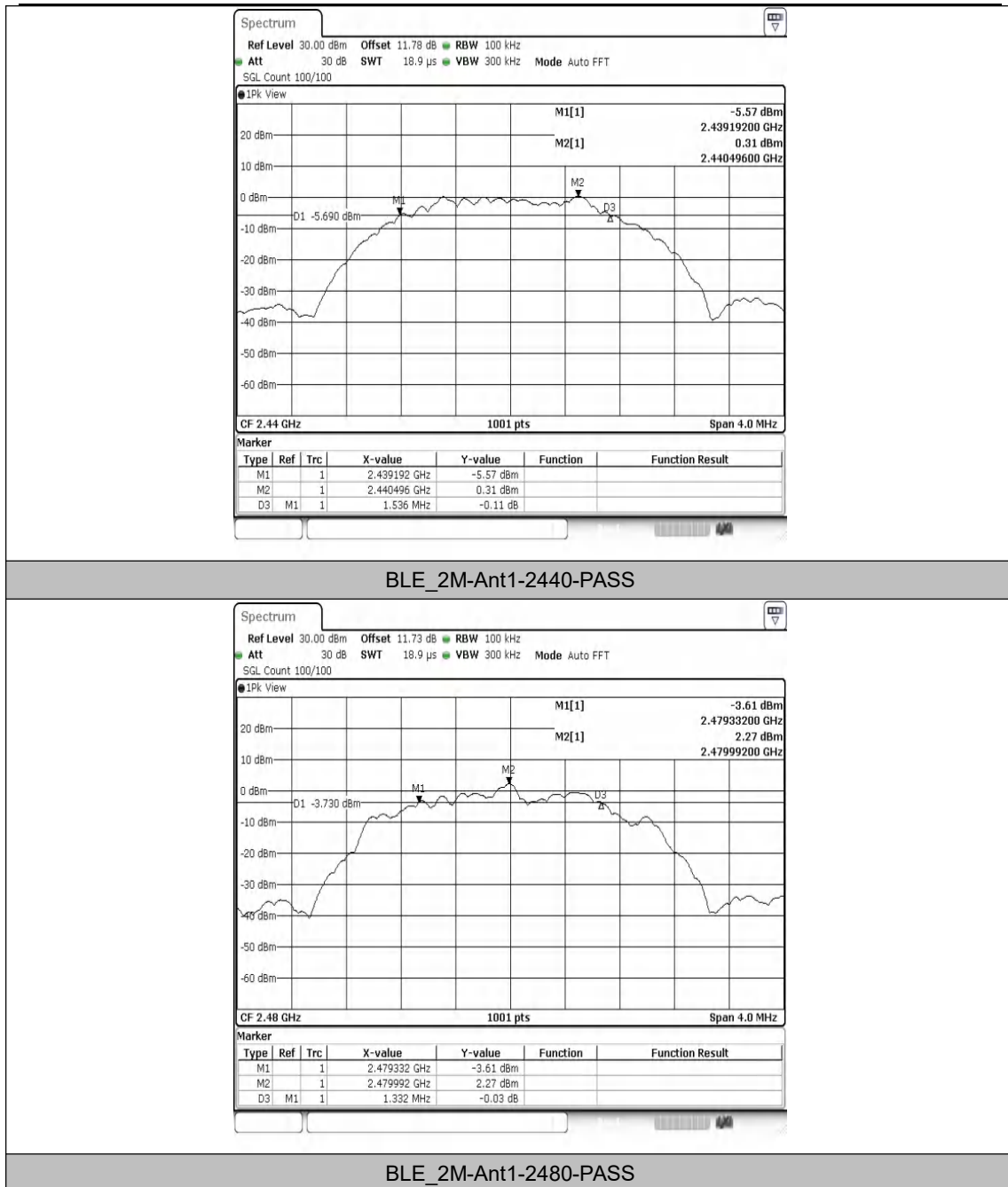
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.71	2401.65	2402.36	0.5	PASS
BLE_1M	Ant1	2440	0.71	2439.65	2440.36	0.5	PASS
BLE_1M	Ant1	2480	0.68	2479.66	2480.33	0.5	PASS
BLE_2M	Ant1	2402	1.20	2401.41	2402.61	0.5	PASS
BLE_2M	Ant1	2440	1.54	2439.19	2440.73	0.5	PASS
BLE_2M	Ant1	2480	1.33	2479.33	2480.66	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	1.059	2401.4925	2402.5514	---	---
BLE_1M	Ant1	2440	1.047	2439.4885	2440.5355	---	---
BLE_1M	Ant1	2480	1.059	2479.4765	2480.5355	---	---
BLE_2M	Ant1	2402	2.098	2400.9770	2403.0749	---	---
BLE_2M	Ant1	2440	2.082	2438.9890	2441.0709	---	---
BLE_2M	Ant1	2480	2.098	2478.9650	2481.0629	---	---

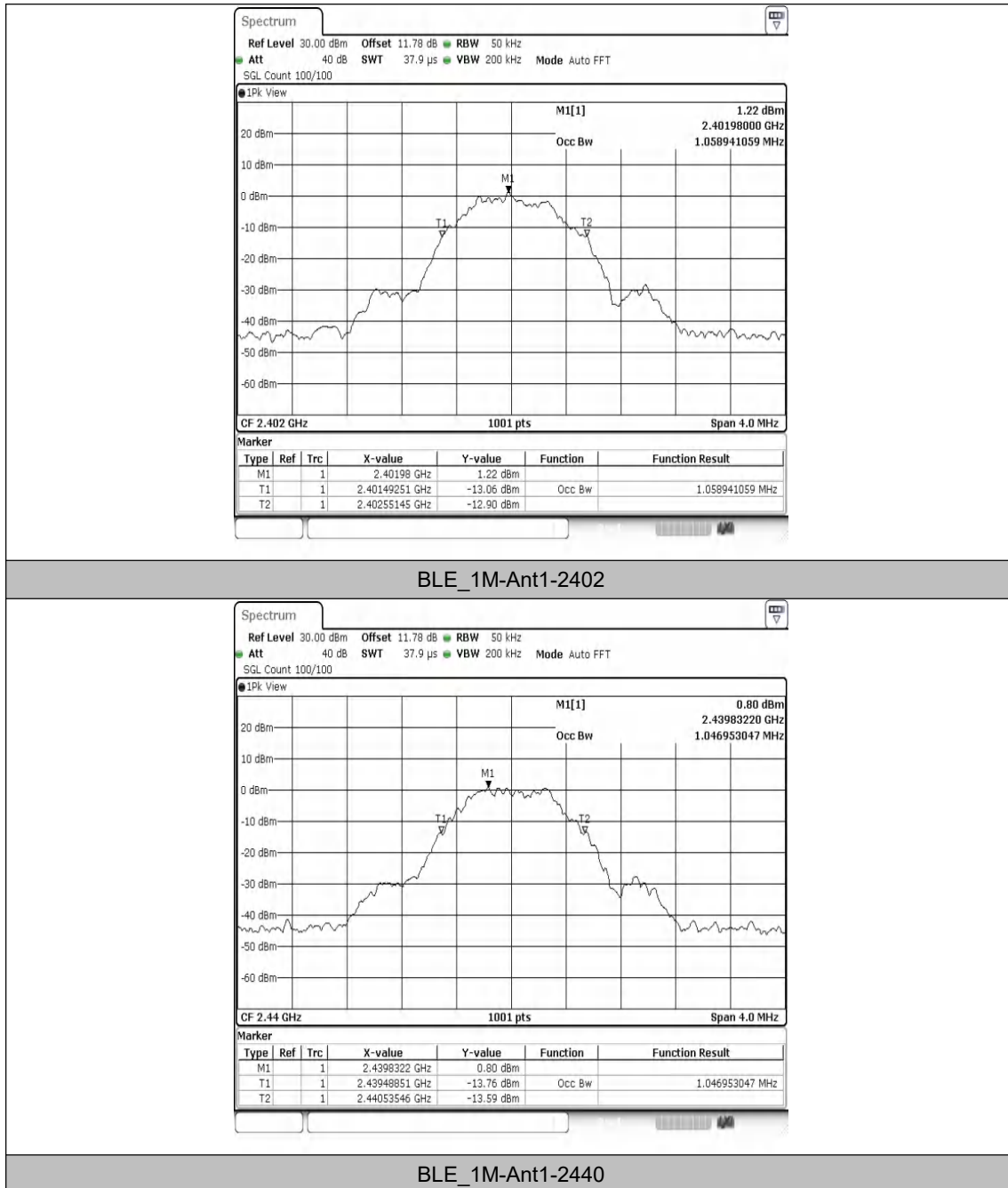
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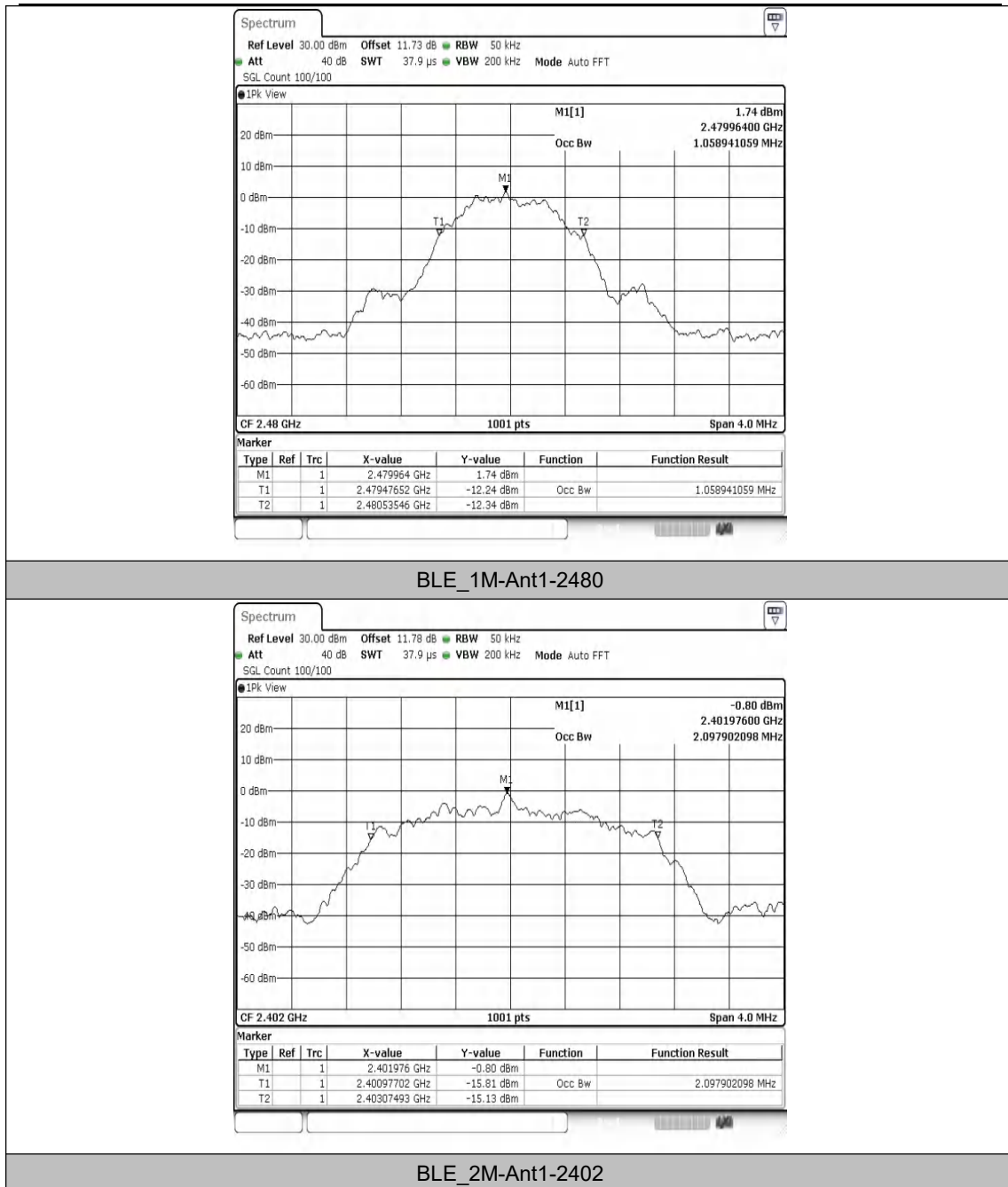
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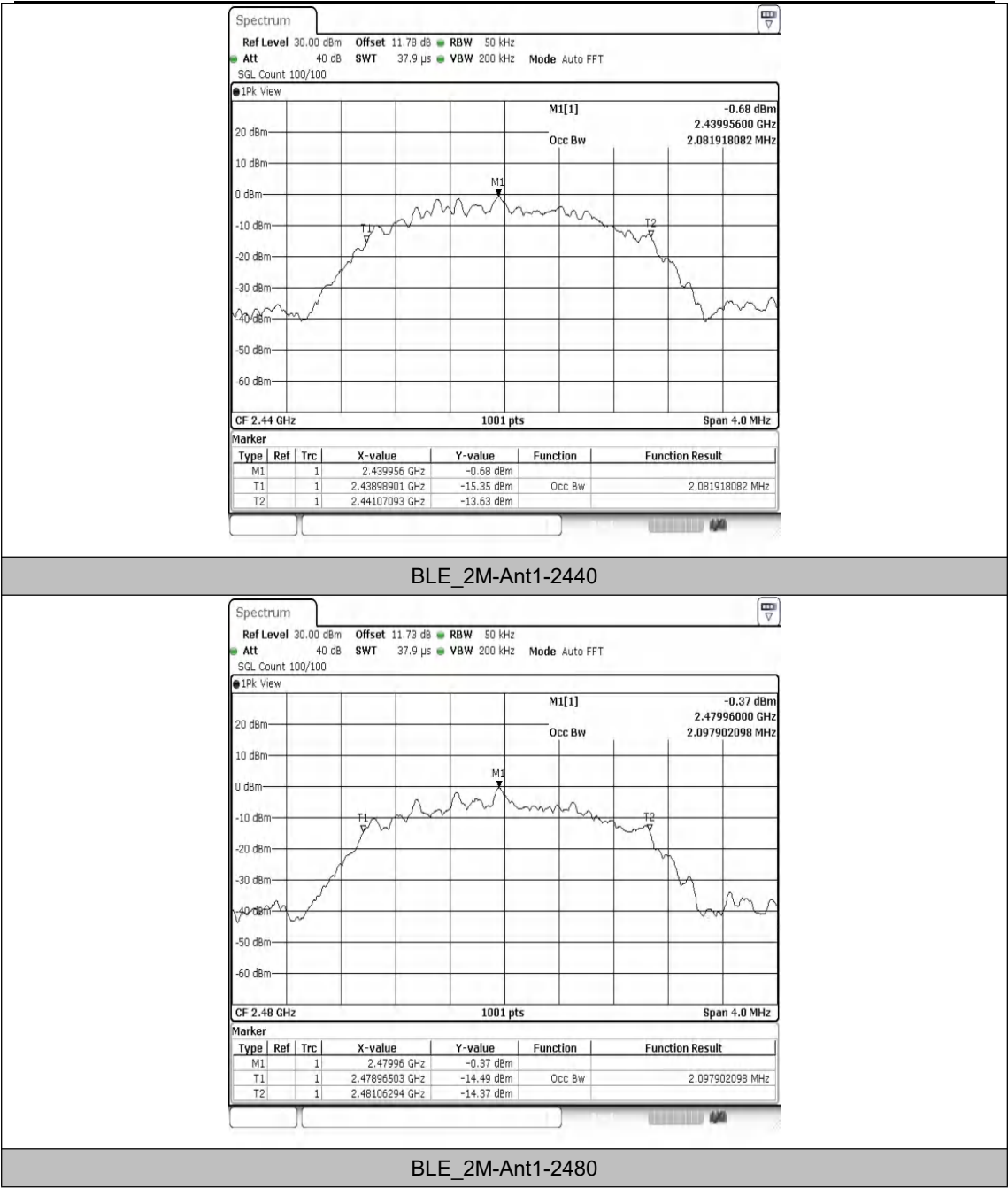
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Test Graphs







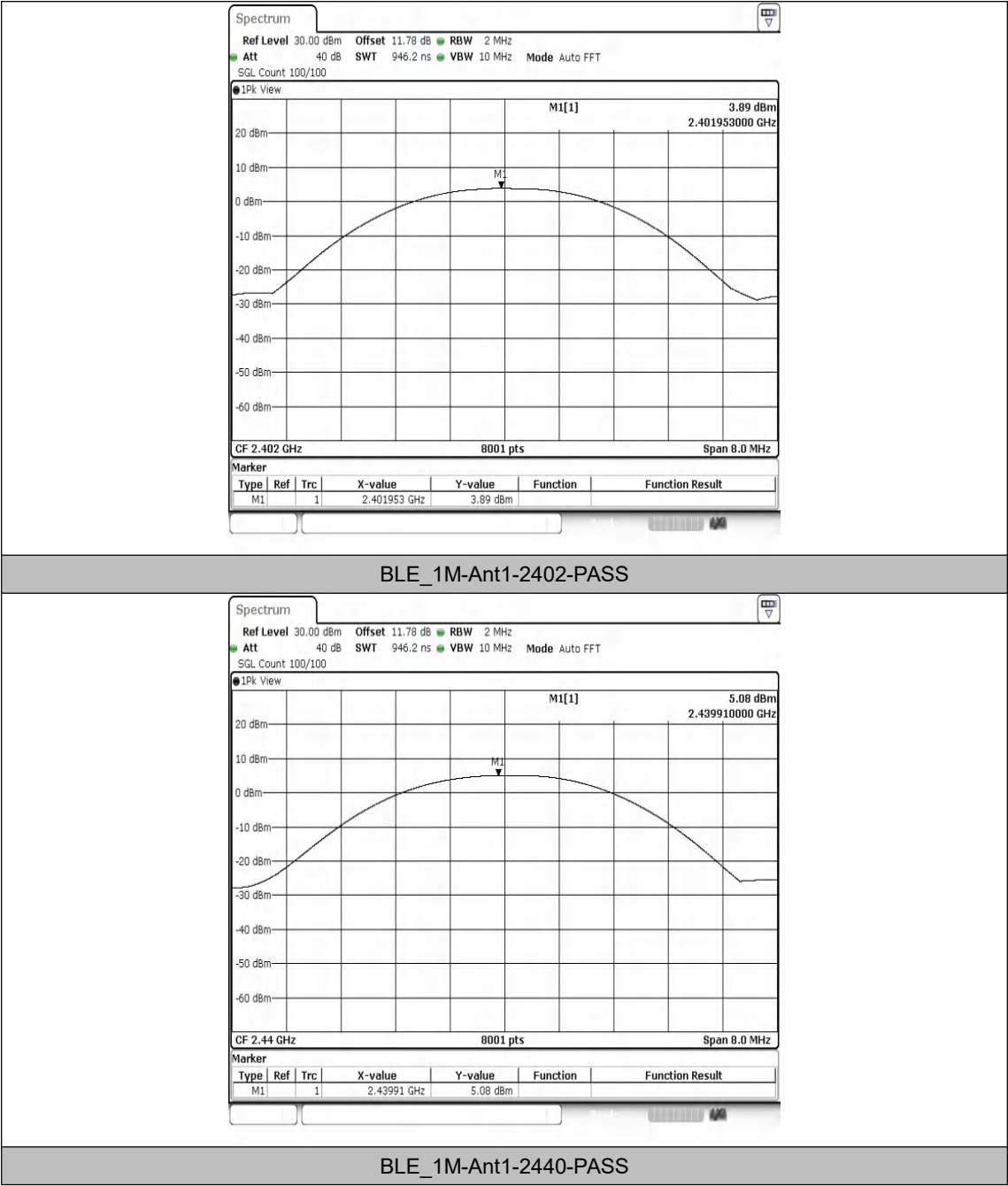
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.89	≤30	PASS
BLE_1M	Ant1	2440	5.08	≤30	PASS
BLE_1M	Ant1	2480	4.34	≤30	PASS
BLE_2M	Ant1	2402	3.91	≤30	PASS
BLE_2M	Ant1	2440	5.12	≤30	PASS
BLE_2M	Ant1	2480	4.67	≤30	PASS



Test Graphs Peak

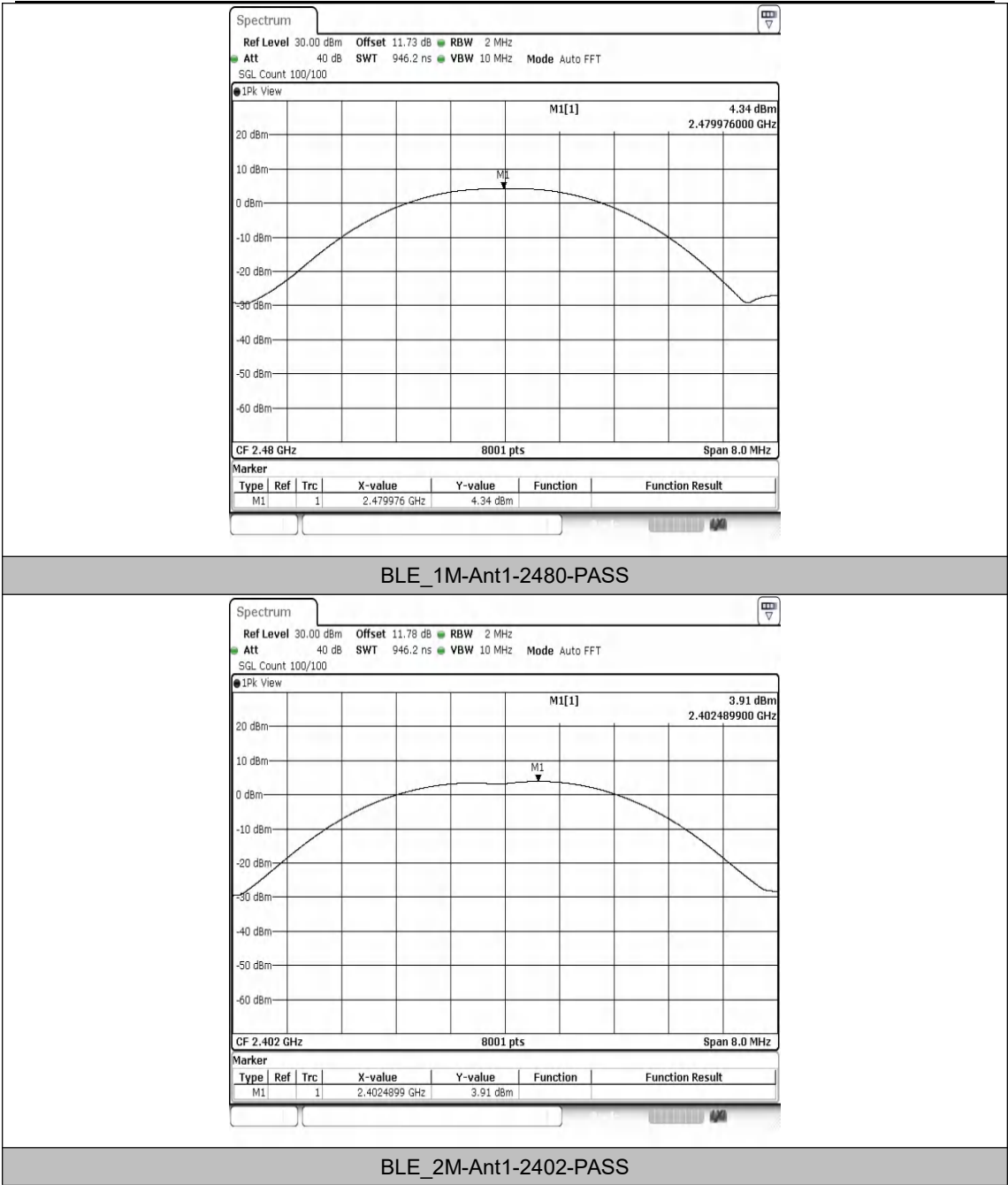


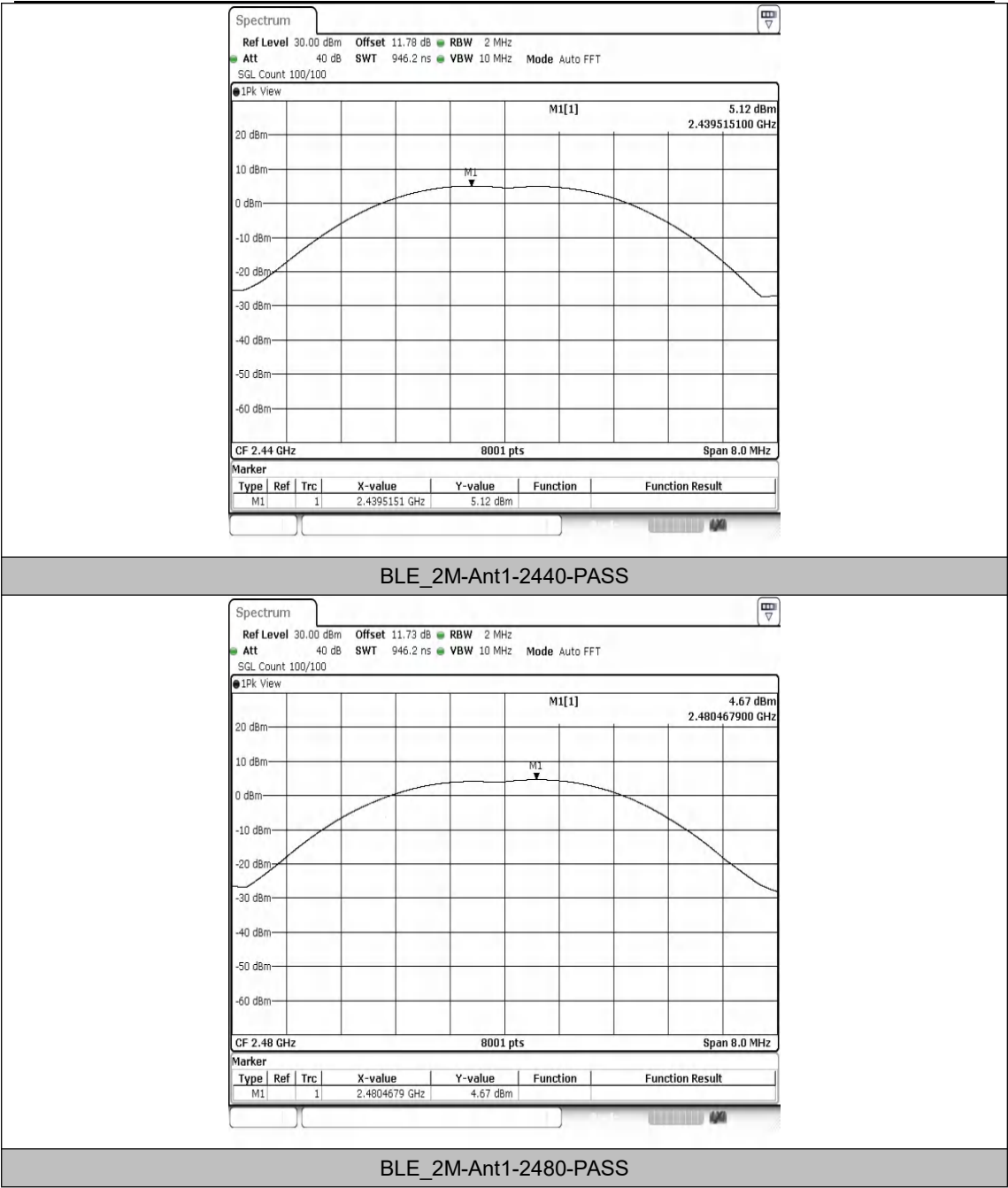
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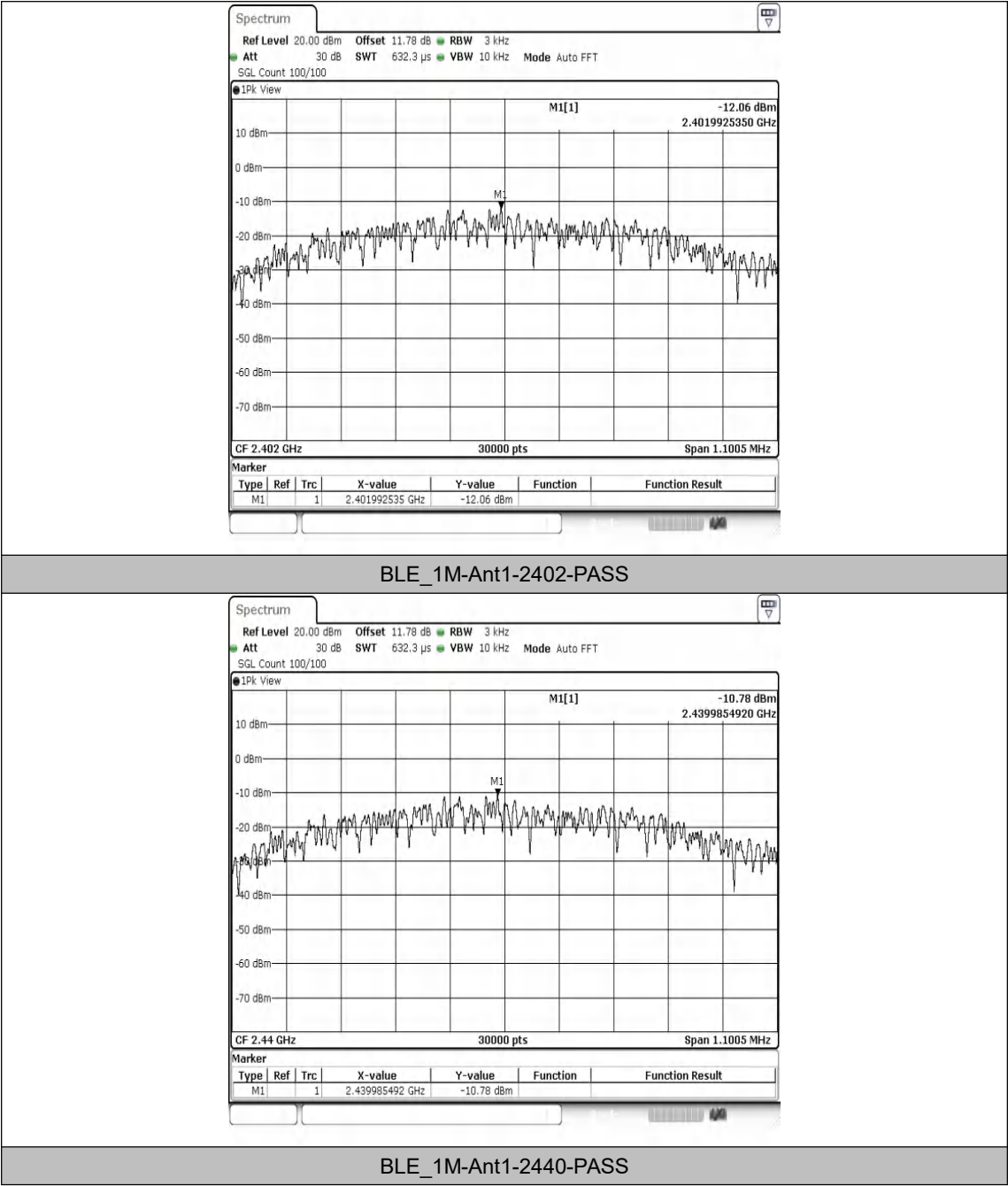
Appendix D: Maximum power spectral density

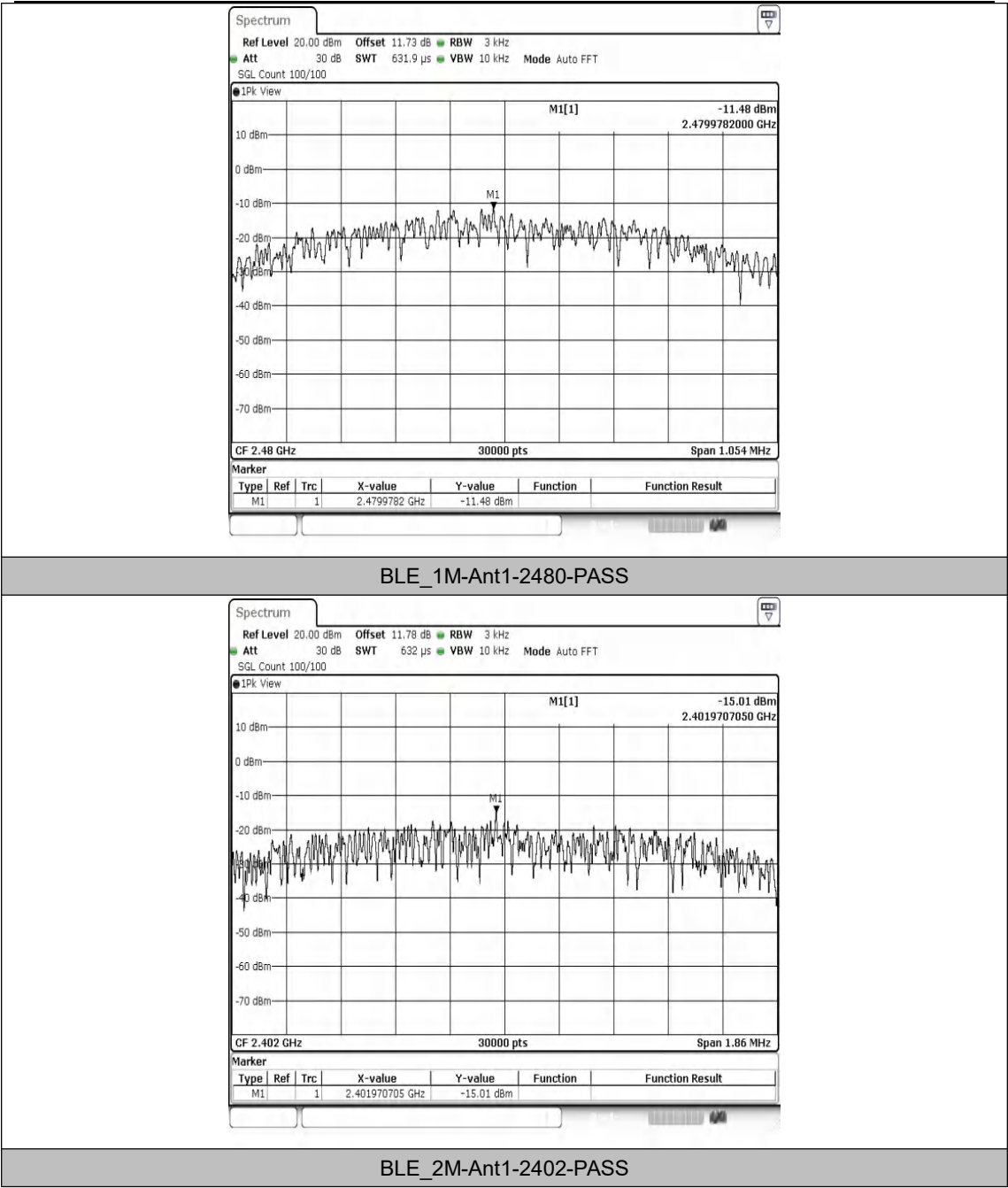
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.06	≤8.00	PASS
BLE_1M	Ant1	2440	-10.78	≤8.00	PASS
BLE_1M	Ant1	2480	-11.48	≤8.00	PASS
BLE_2M	Ant1	2402	-15.01	≤8.00	PASS
BLE_2M	Ant1	2440	-13.69	≤8.00	PASS
BLE_2M	Ant1	2480	-14.35	≤8.00	PASS



Test Graphs



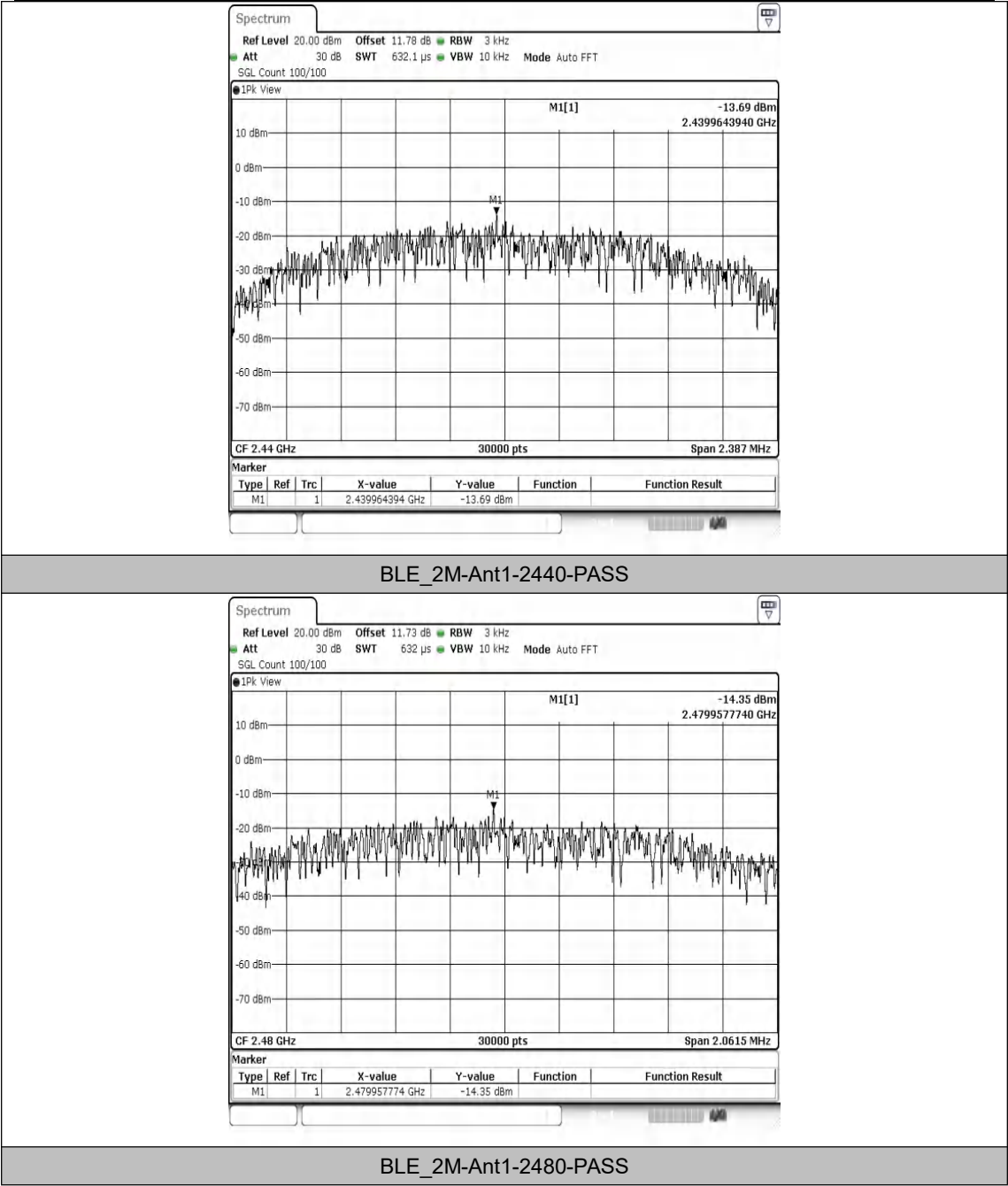


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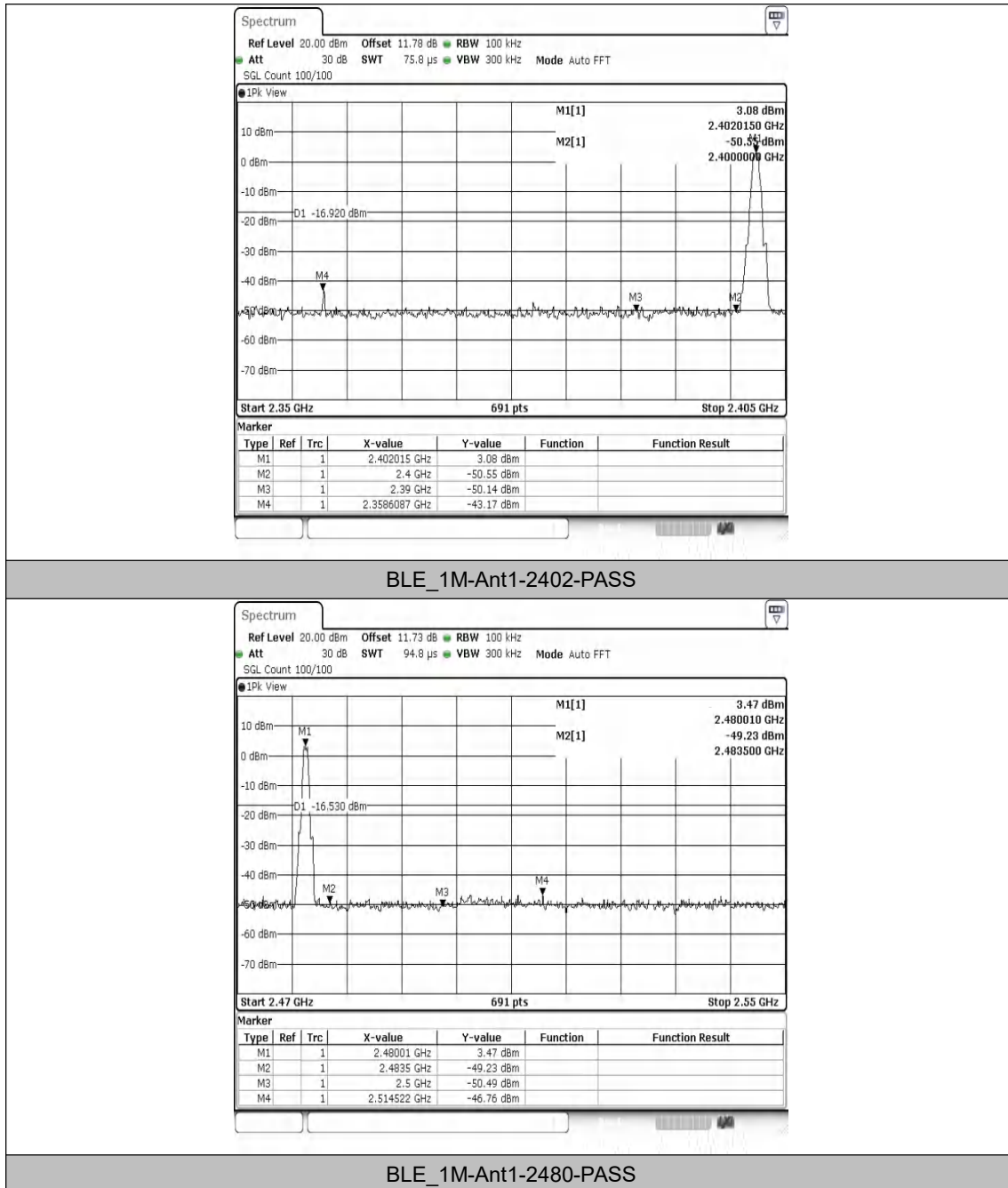
Appendix E: Band edge measurements

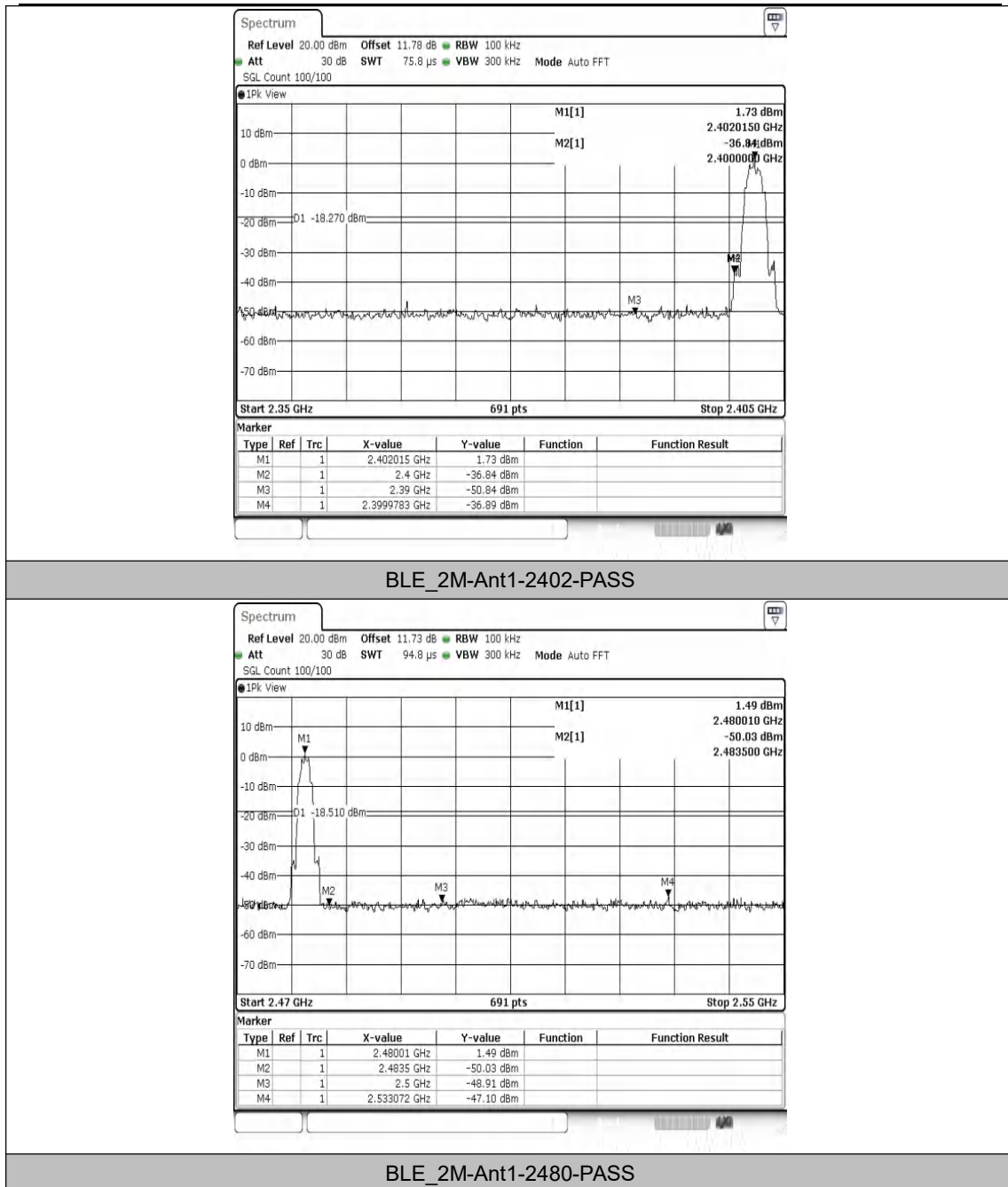
Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.08	-43.17	≤-16.92	PASS
BLE_1M	Ant1	High	2480	3.47	-46.76	≤-16.53	PASS
BLE_2M	Ant1	Low	2402	1.73	-36.89	≤-18.27	PASS
BLE_2M	Ant1	High	2480	1.49	-47.1	≤-18.51	PASS



Test Graphs





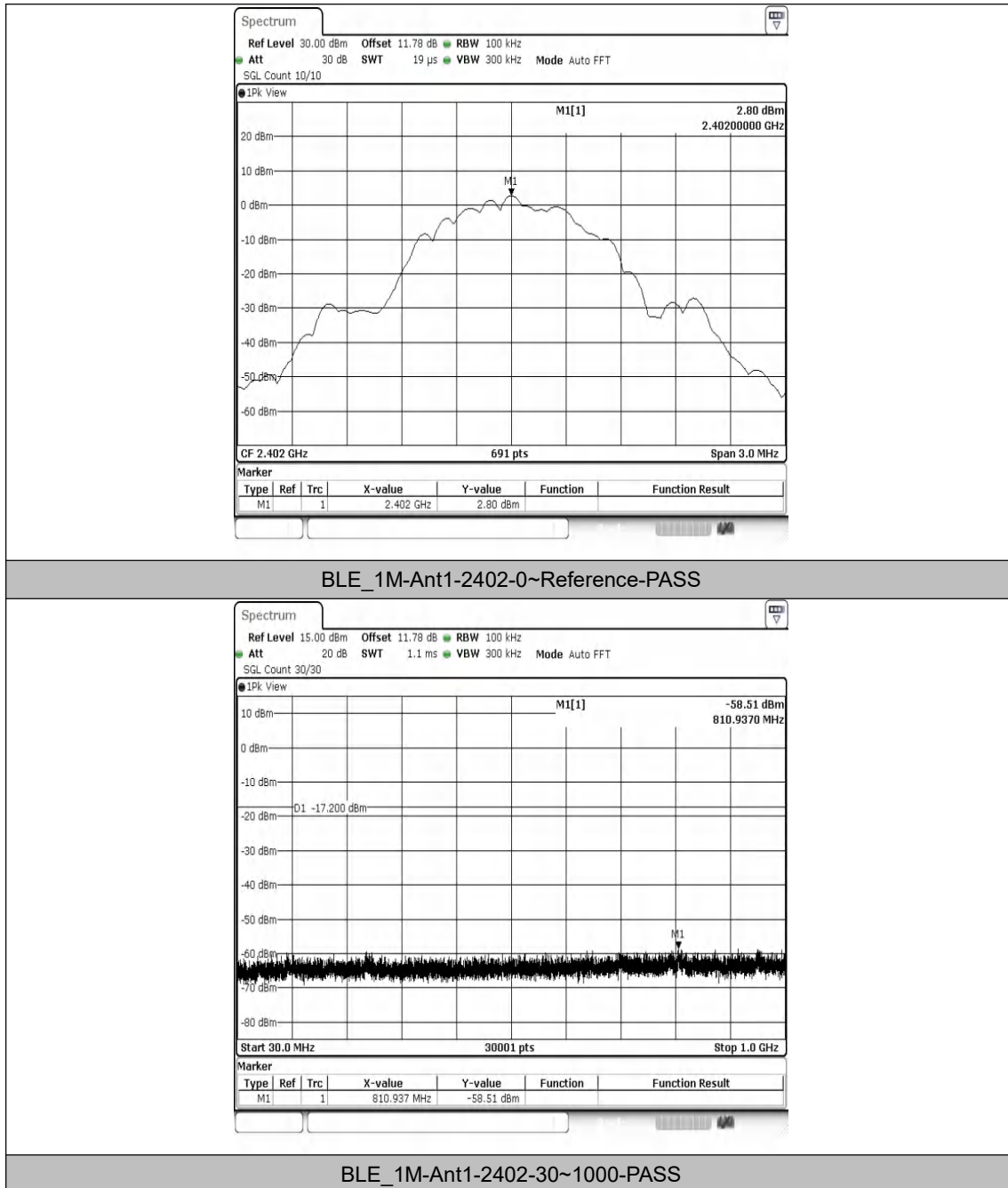
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	2.80	2.80	---	PASS
BLE_1M	Ant1	2402	30~1000	2.80	-58.51	≤-17.2	PASS
BLE_1M	Ant1	2402	1000~26500	2.80	-43.55	≤-17.2	PASS
BLE_1M	Ant1	2440	0~Reference	2.00	2.00	---	PASS
BLE_1M	Ant1	2440	30~1000	2.00	-57.72	≤-18	PASS
BLE_1M	Ant1	2440	1000~26500	2.00	-43.83	≤-18	PASS
BLE_1M	Ant1	2480	0~Reference	1.74	1.74	---	PASS
BLE_1M	Ant1	2480	30~1000	1.74	-57.16	≤-18.26	PASS
BLE_1M	Ant1	2480	1000~26500	1.74	-43.63	≤-18.26	PASS
BLE_2M	Ant1	2402	0~Reference	1.06	1.06	---	PASS
BLE_2M	Ant1	2402	30~1000	1.06	-58.47	≤-18.94	PASS
BLE_2M	Ant1	2402	1000~26500	1.06	-42.69	≤-18.94	PASS
BLE_2M	Ant1	2440	0~Reference	-0.01	-0.01	---	PASS
BLE_2M	Ant1	2440	30~1000	-0.01	-44.7	≤-20.01	PASS
BLE_2M	Ant1	2440	1000~26500	-0.01	-44.34	≤-20.01	PASS
BLE_2M	Ant1	2480	0~Reference	-0.44	-0.44	---	PASS
BLE_2M	Ant1	2480	30~1000	-0.44	-58.33	≤-20.44	PASS
BLE_2M	Ant1	2480	1000~26500	-0.44	-43.87	≤-20.44	PASS



Test Graphs



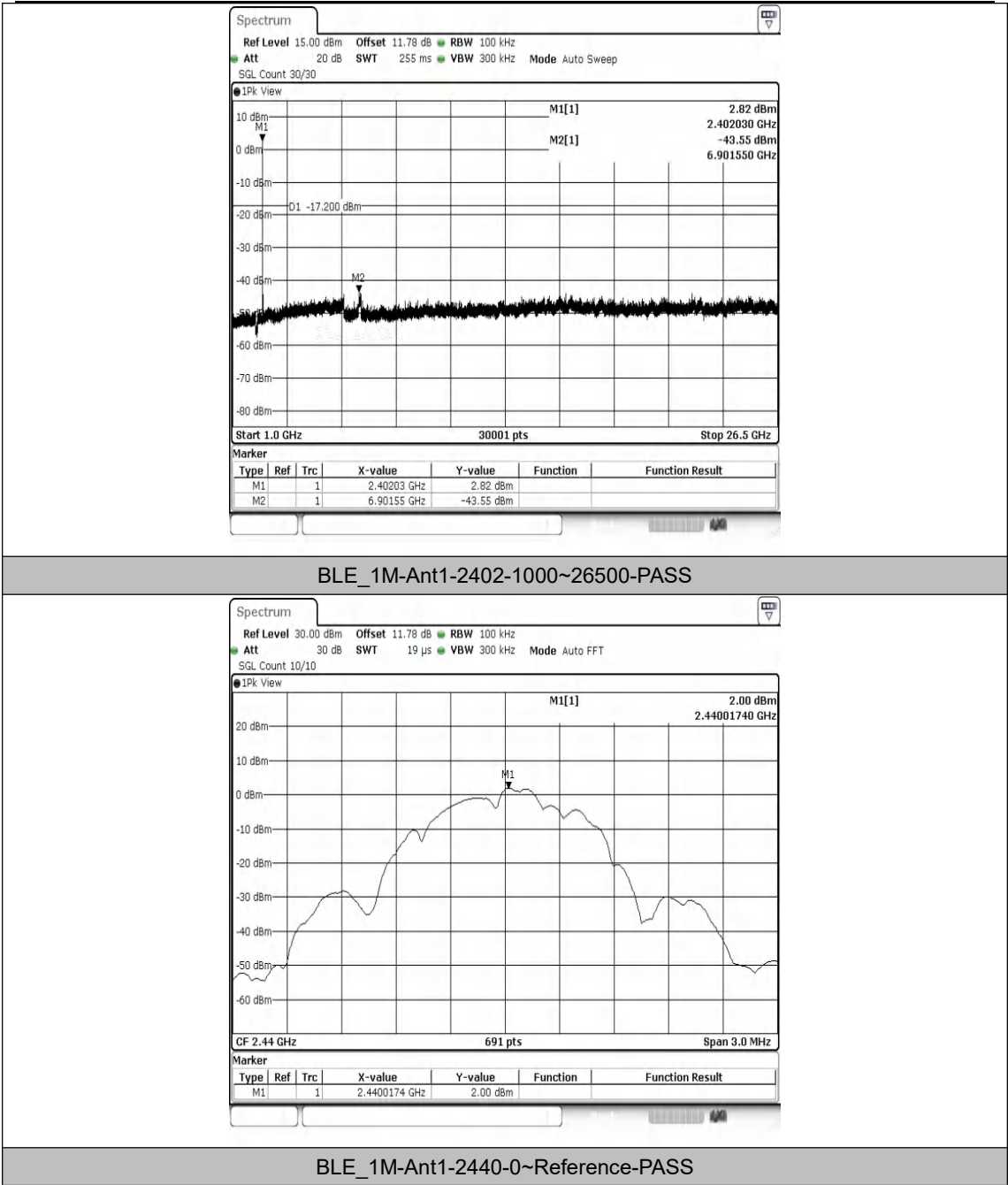
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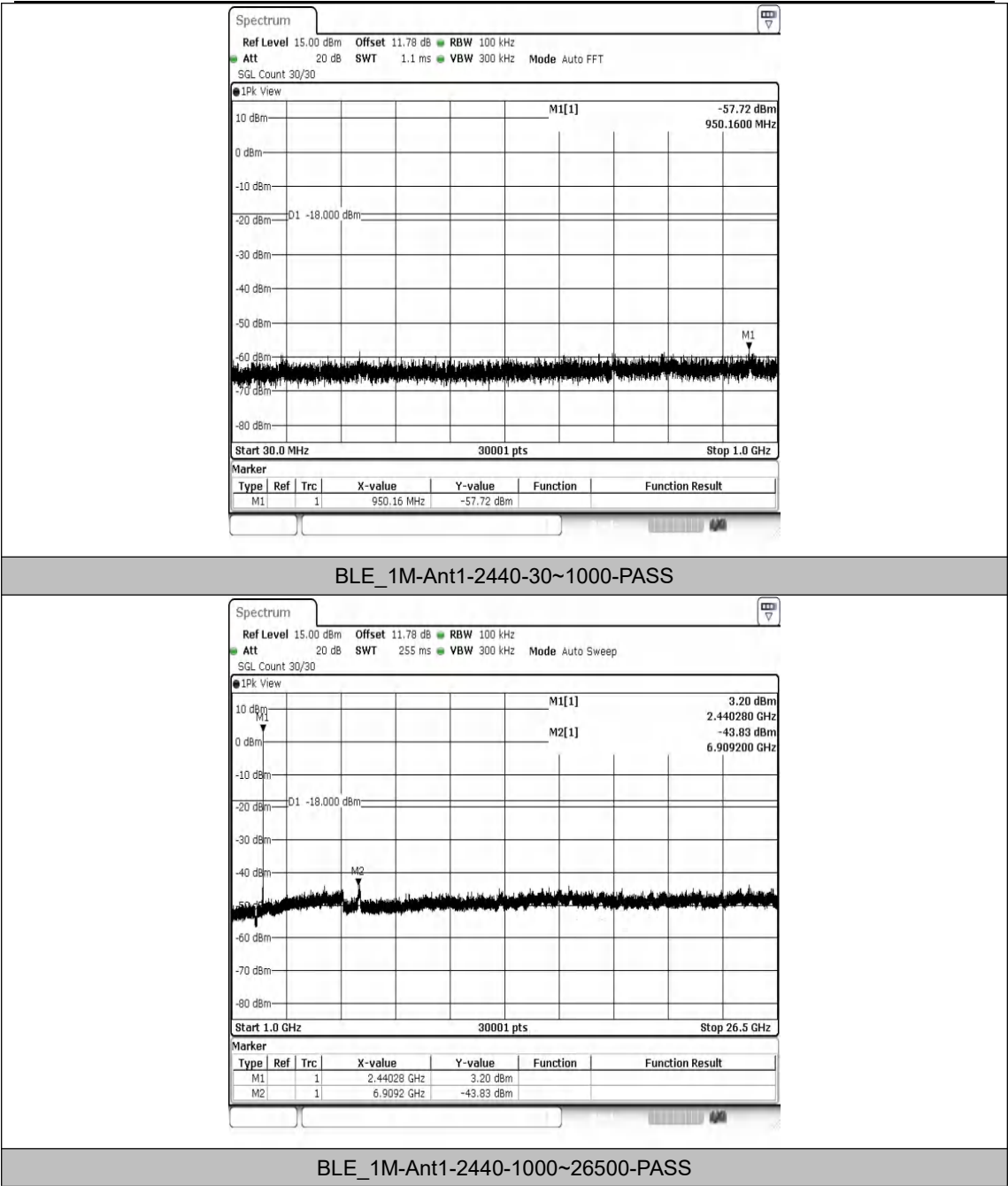
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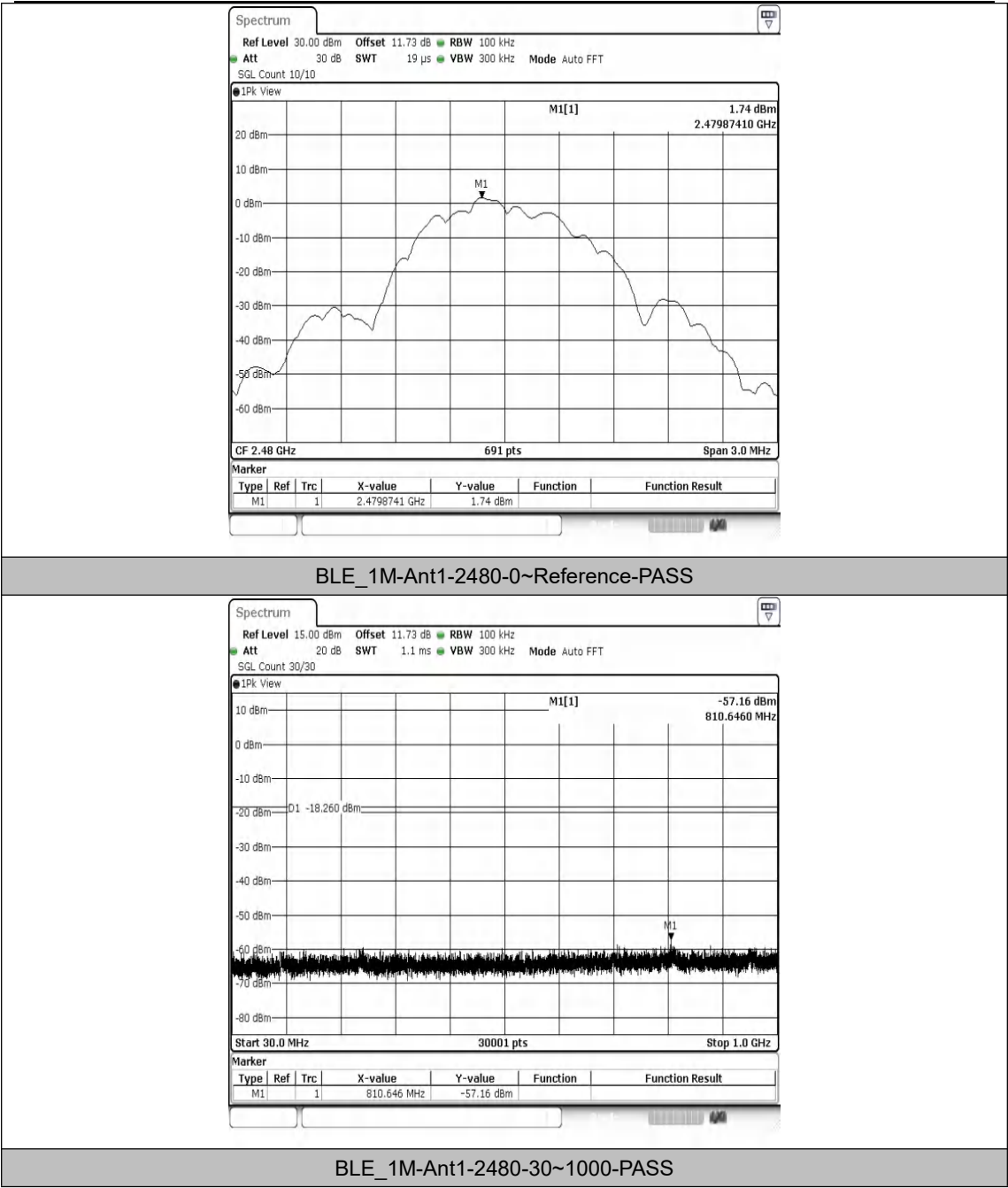


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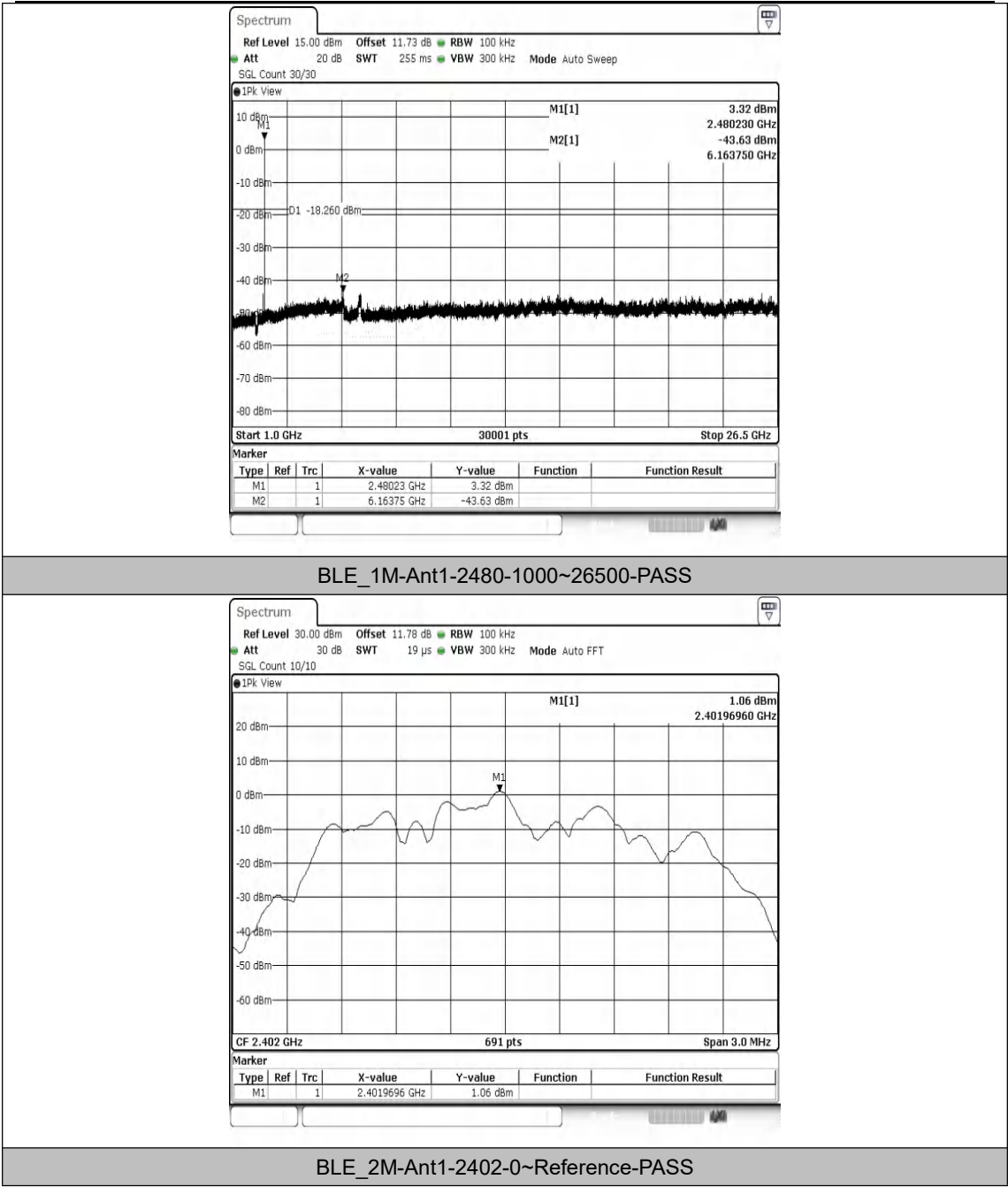


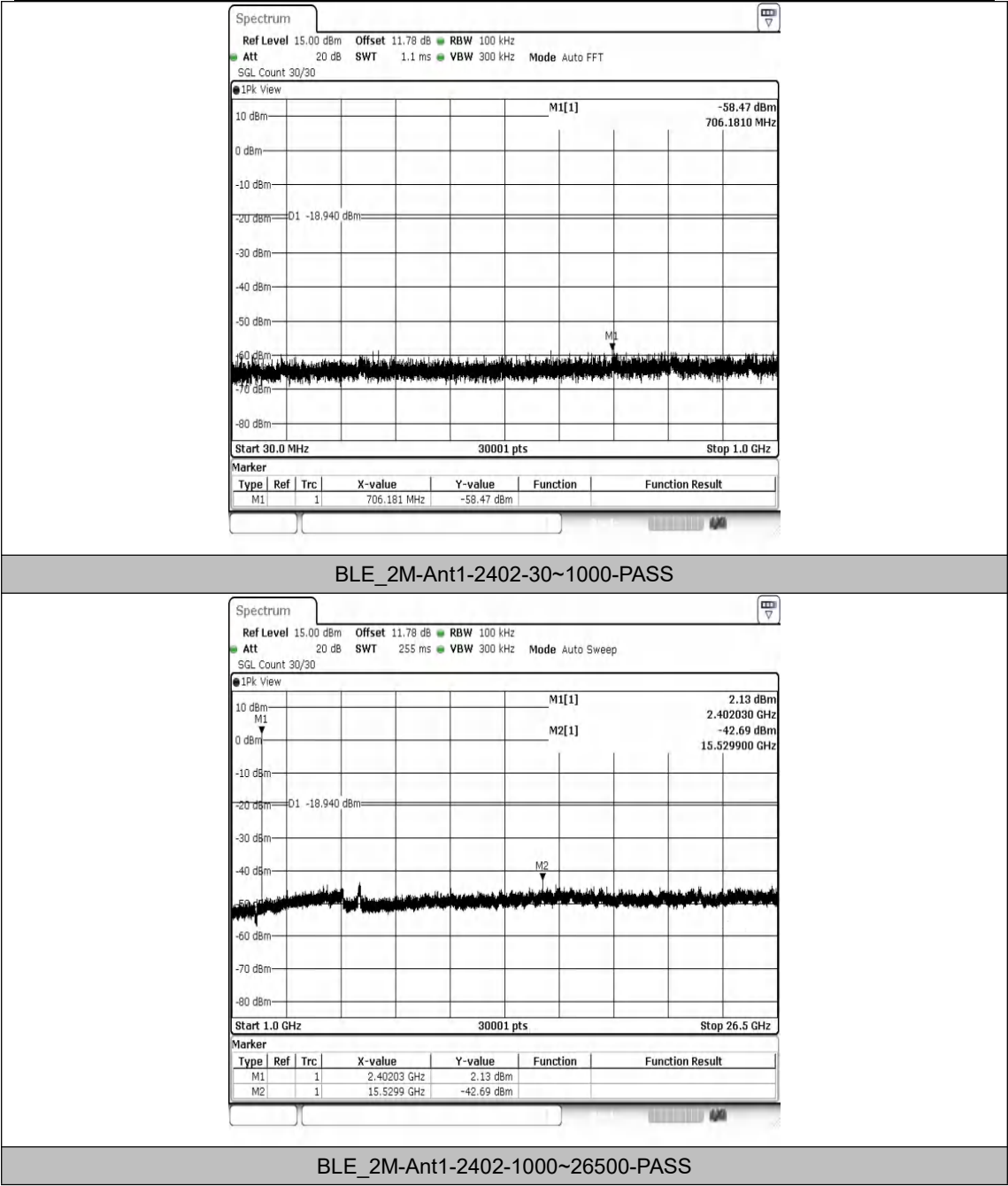
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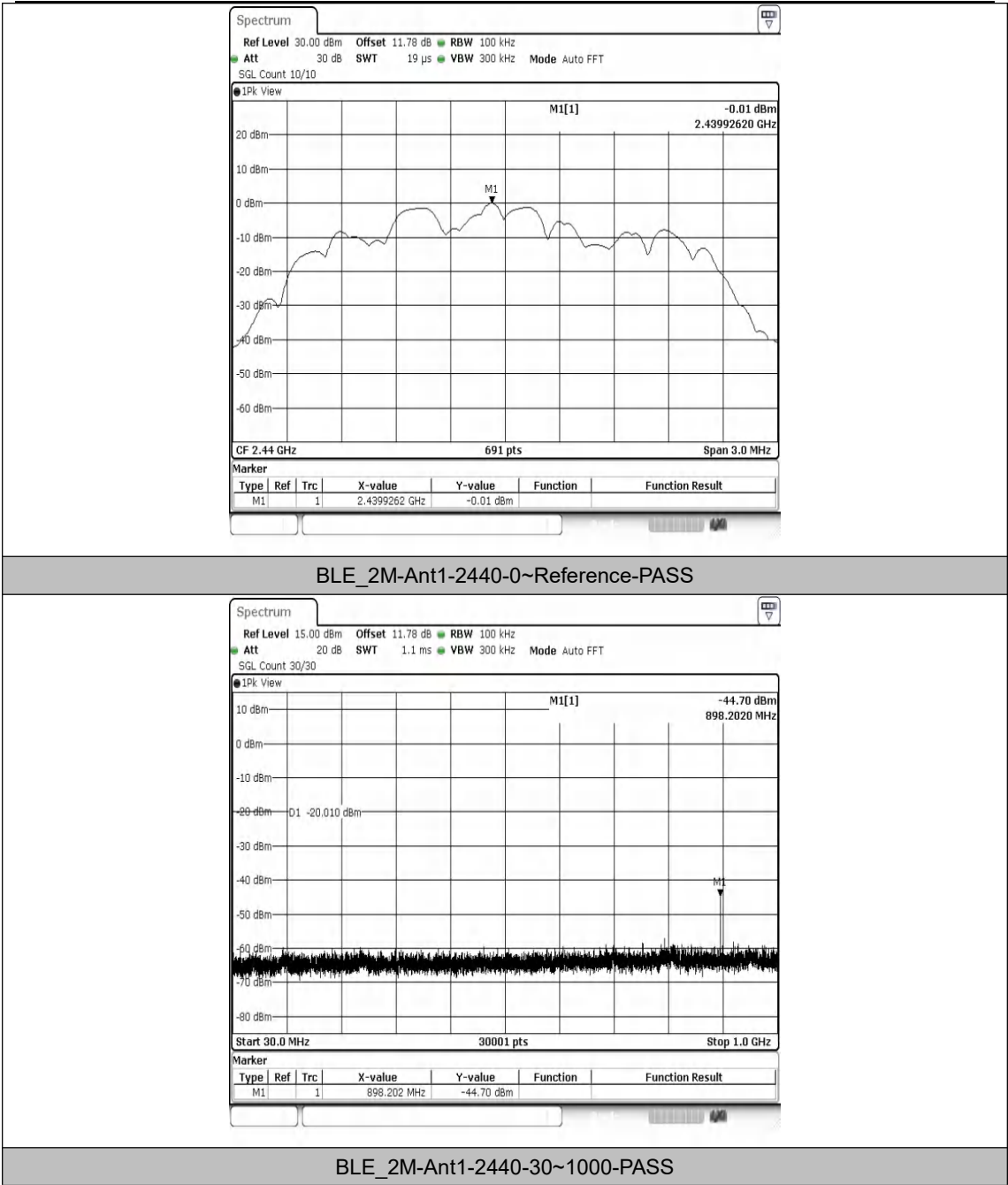
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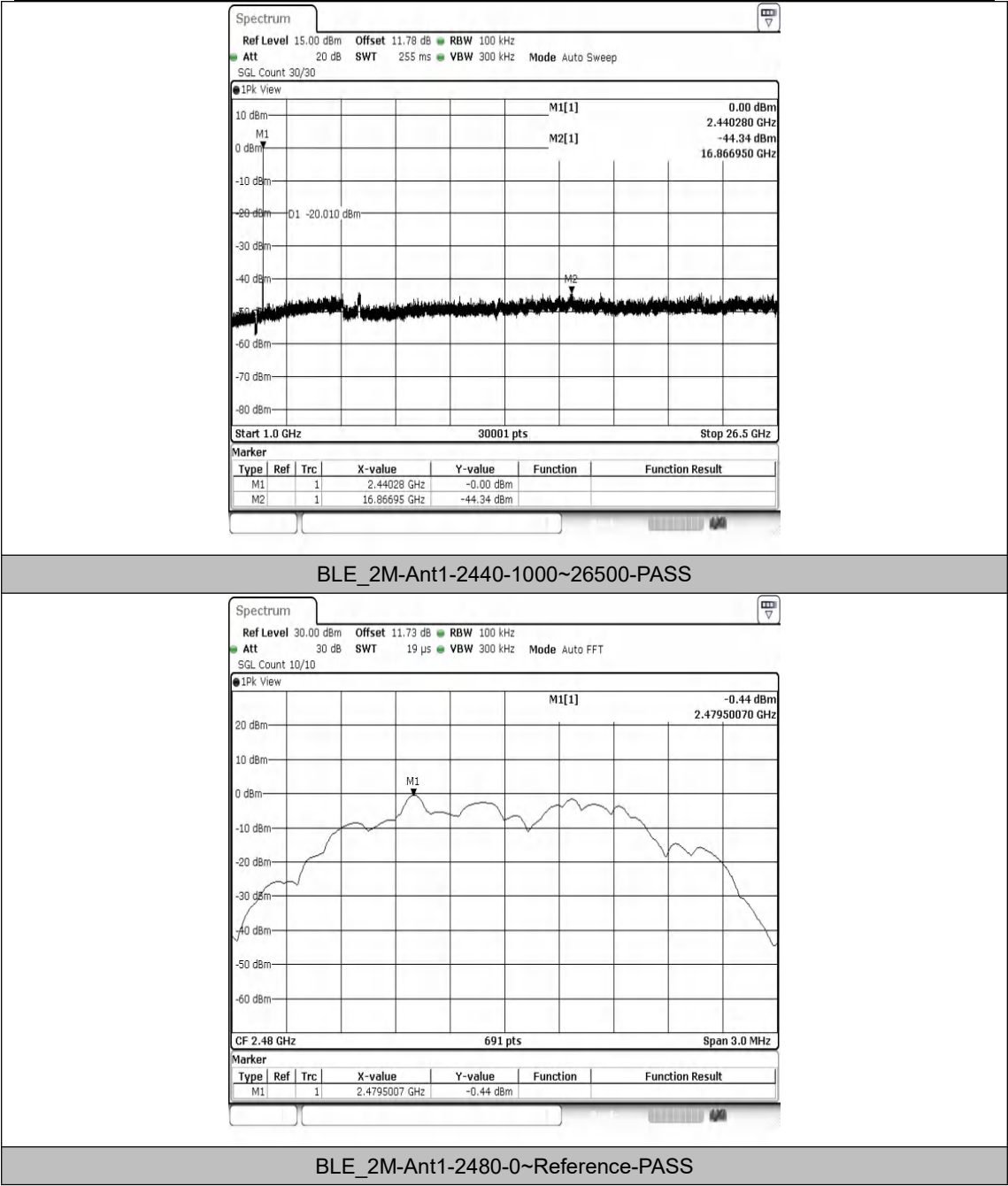
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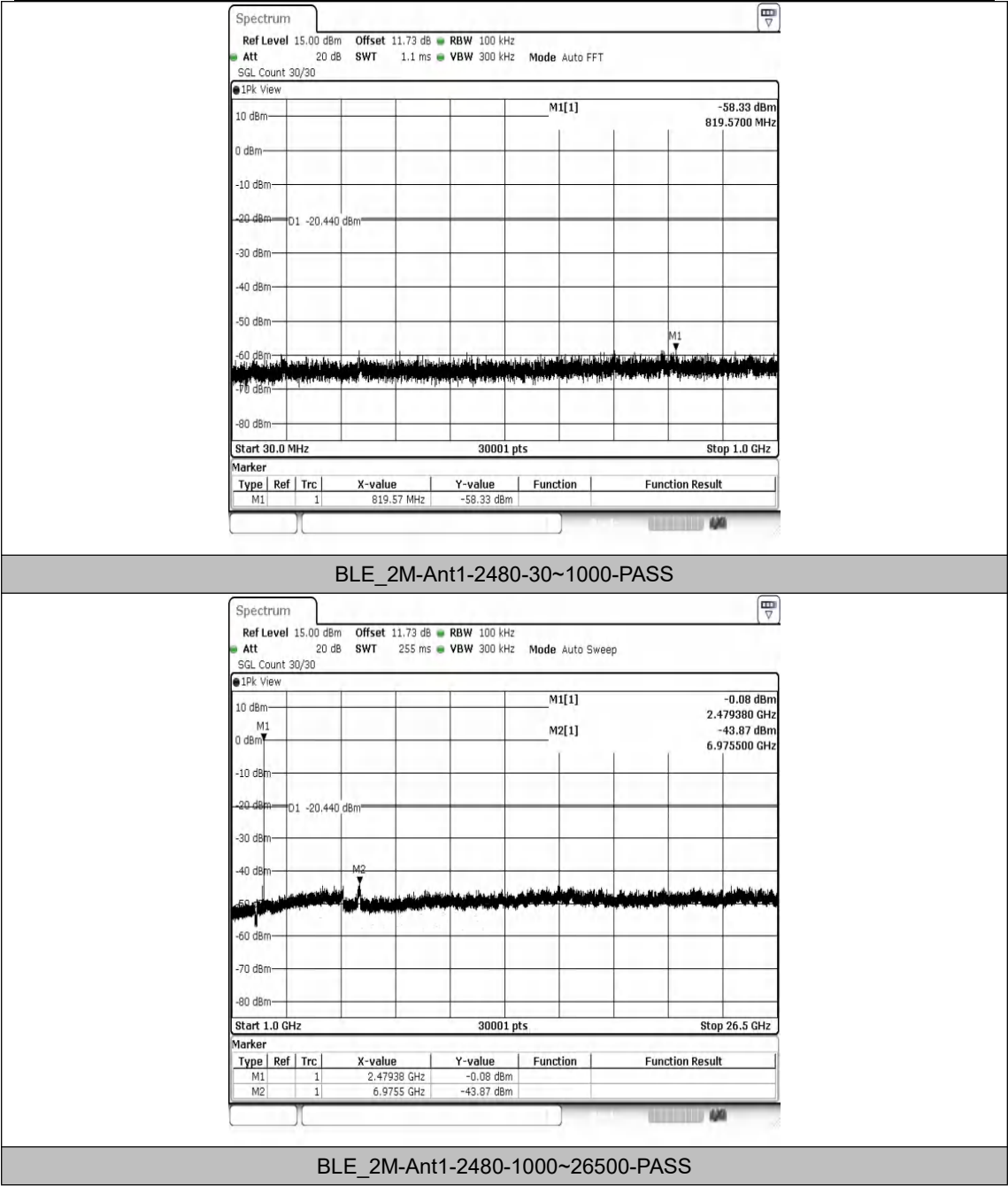












Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.37	0.63	58.73	2.31
BLE_1M	Ant1	2440	0.38	0.63	60.32	2.20
BLE_1M	Ant1	2480	0.38	0.63	60.32	2.20
BLE_2M	Ant1	2402	0.19	0.62	30.65	5.14
BLE_2M	Ant1	2440	0.19	0.62	30.65	5.14
BLE_2M	Ant1	2480	0.19	0.63	30.16	5.21

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Test Graphs

