

Appendix Test Data

Report No.:	1819C50069112502-01	Test Sample No.:	1-2-2
Start Test Date:	2025-08-07	Finish Test Date:	2025-8-18
Test Engineer:	<i>dylan. Ma</i>	Auditor:	<i>Justin Feng</i>
Temperature:	26.3°C	Relative Humidity:	55%
Pressure:	101kPa		

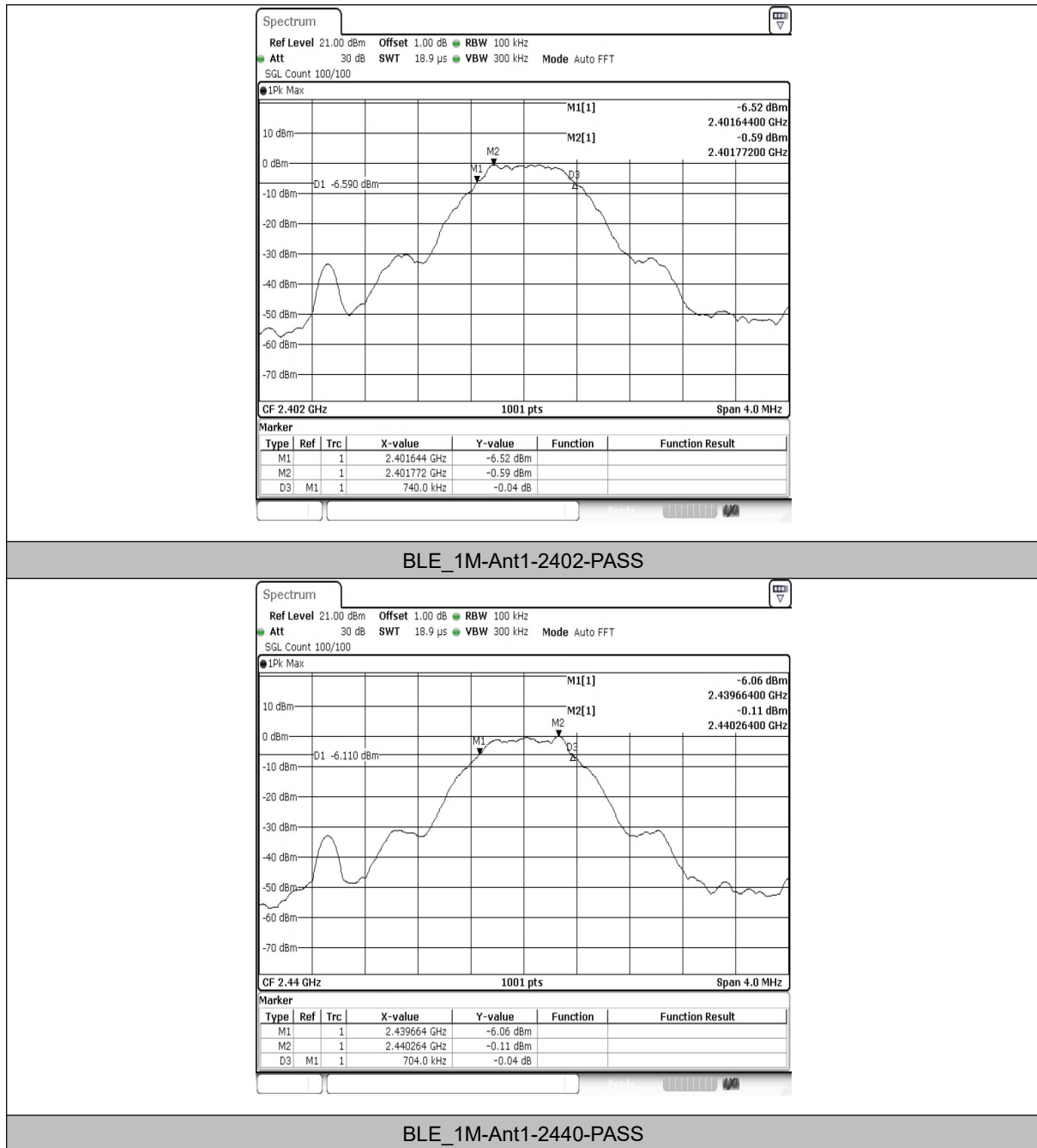


Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.74	2401.64	2402.38	0.5	PASS
BLE_1M	Ant1	2440	0.70	2439.66	2440.37	0.5	PASS
BLE_1M	Ant1	2480	0.70	2479.67	2480.37	0.5	PASS
BLE_2M	Ant1	2402	1.37	2401.33	2402.70	0.5	PASS
BLE_2M	Ant1	2440	1.19	2439.42	2440.62	0.5	PASS
BLE_2M	Ant1	2480	1.21	2479.35	2480.56	0.5	PASS

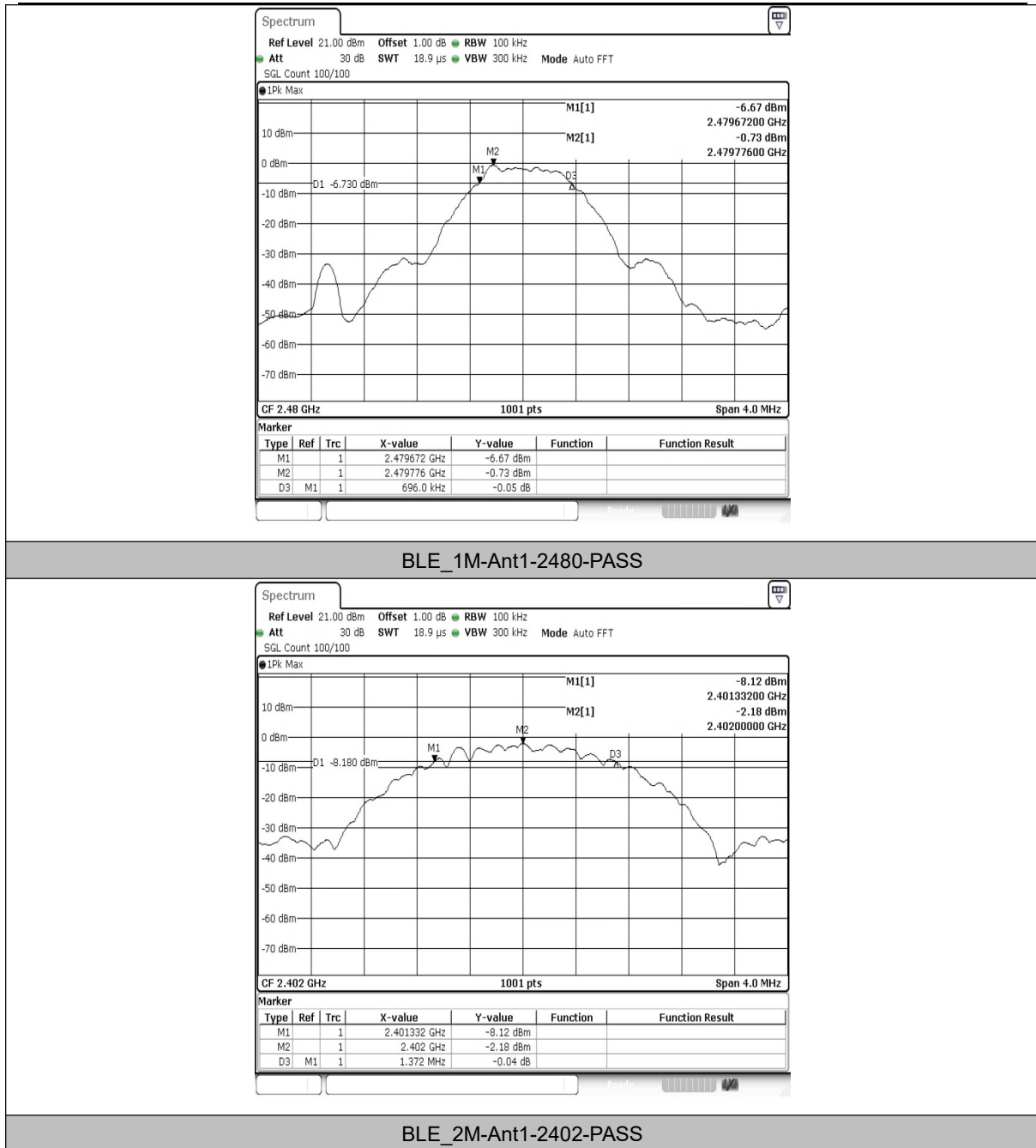
Test Graphs



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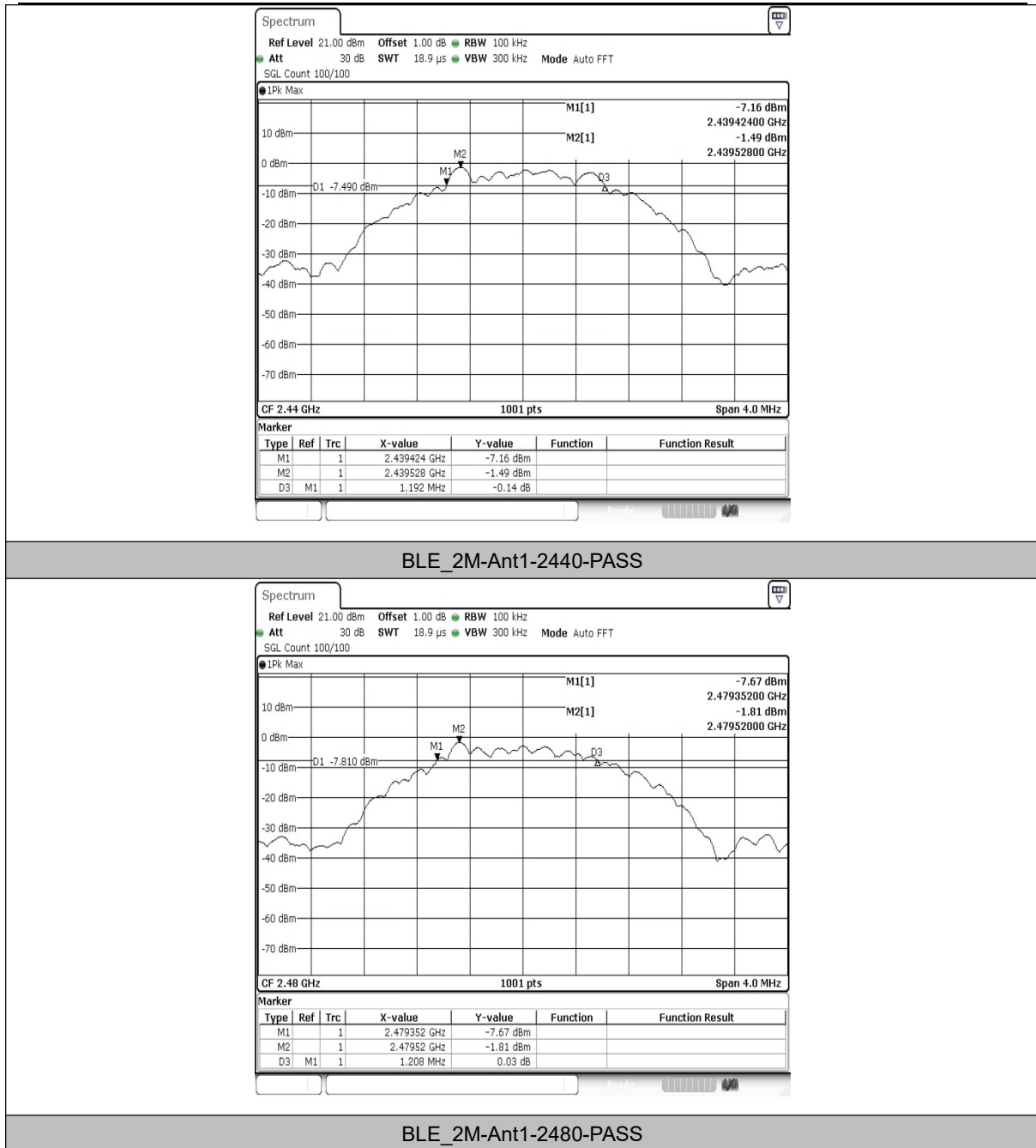
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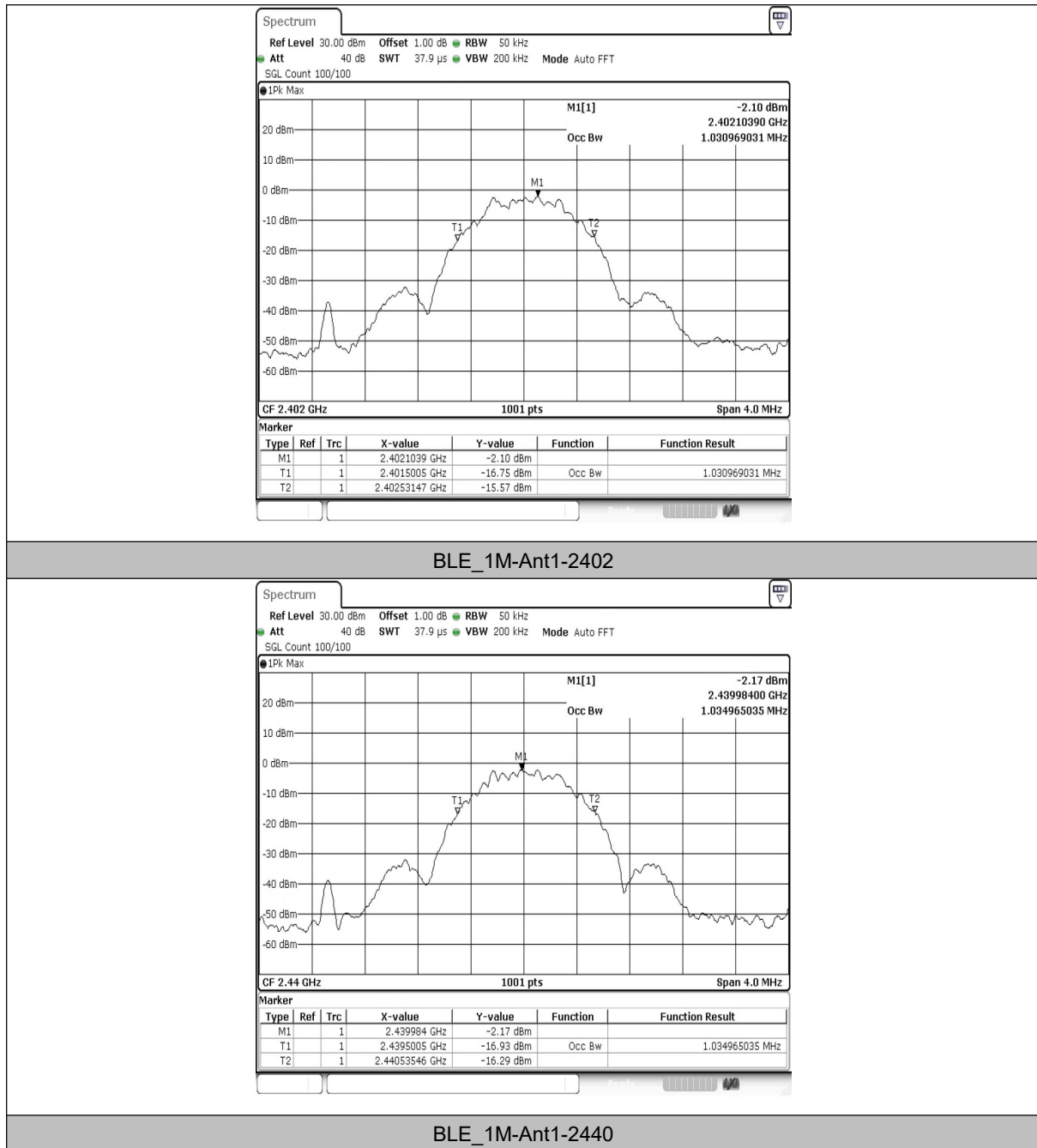
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Appendix B: 99% Occupied Bandwidth**Test Result**

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0310	2401.5005	2402.5315	---	---
BLE_1M	Ant1	2440	1.0350	2439.5005	2440.5355	---	---
BLE_1M	Ant1	2480	1.0390	2479.5005	2480.5395	---	---
BLE_2M	Ant1	2402	2.0260	2401.0090	2403.0350	---	---
BLE_2M	Ant1	2440	2.0420	2439.0050	2441.0470	---	---
BLE_2M	Ant1	2480	2.0659	2478.9930	2481.0589	---	---

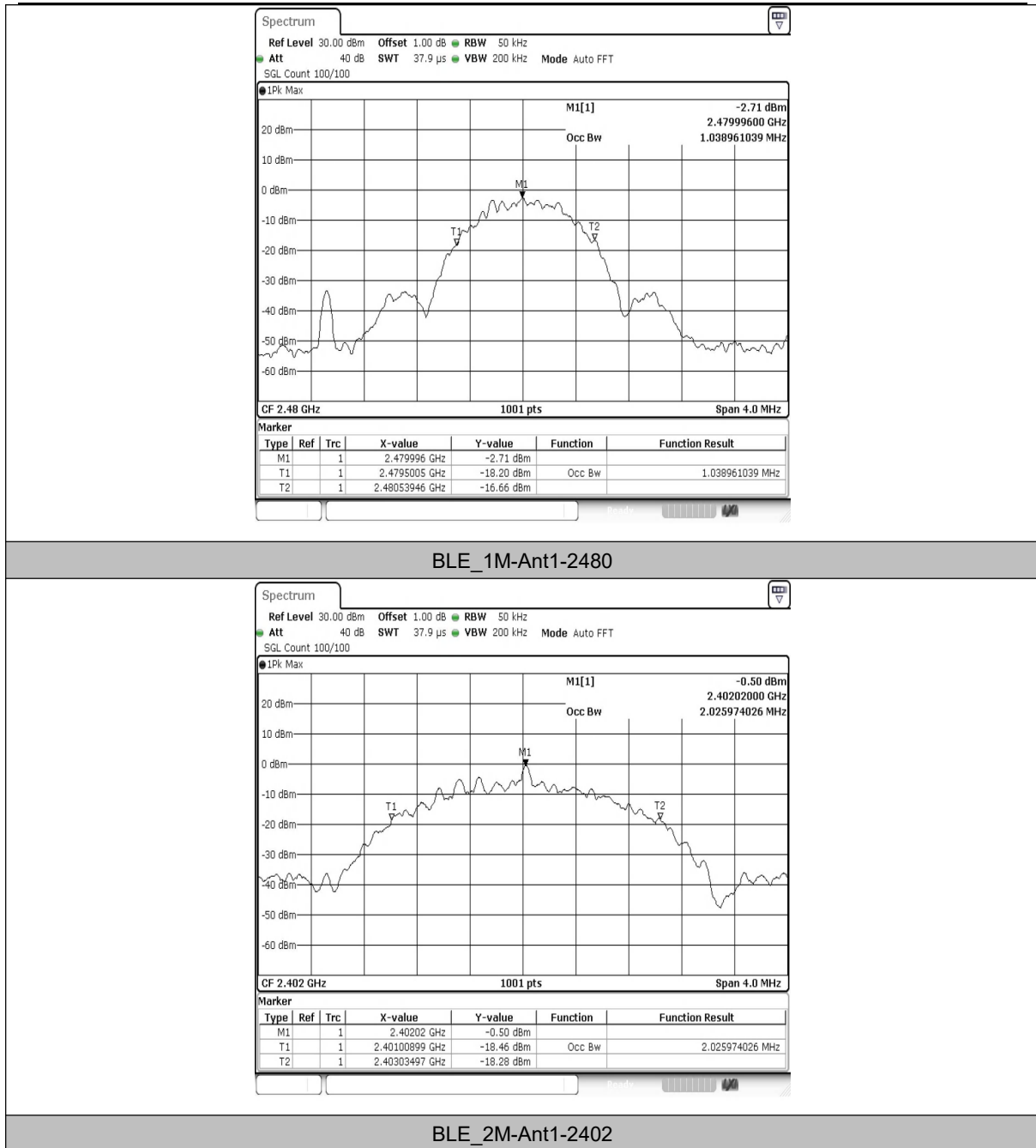
Test Graphs



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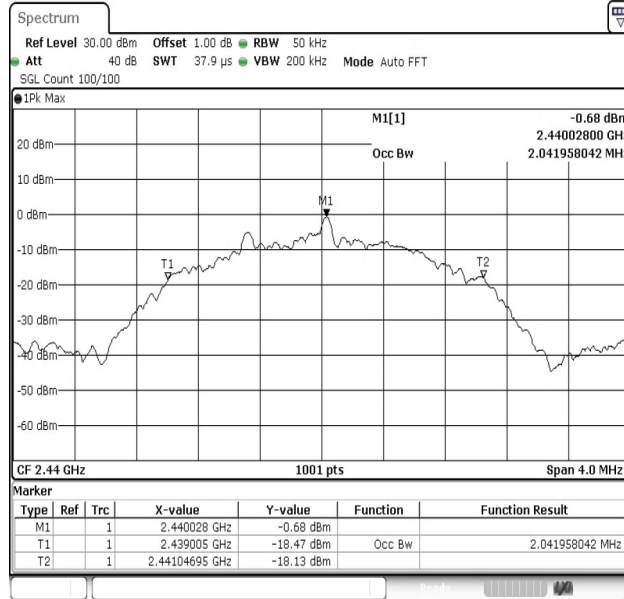
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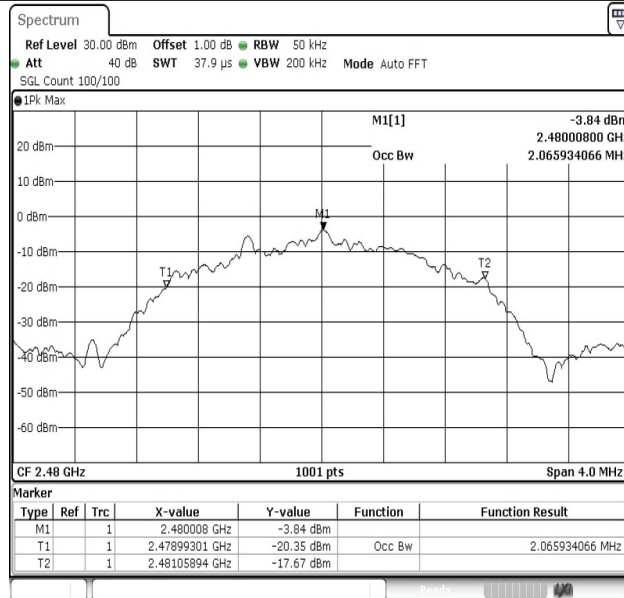
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BLE_2M-Ant1-2440



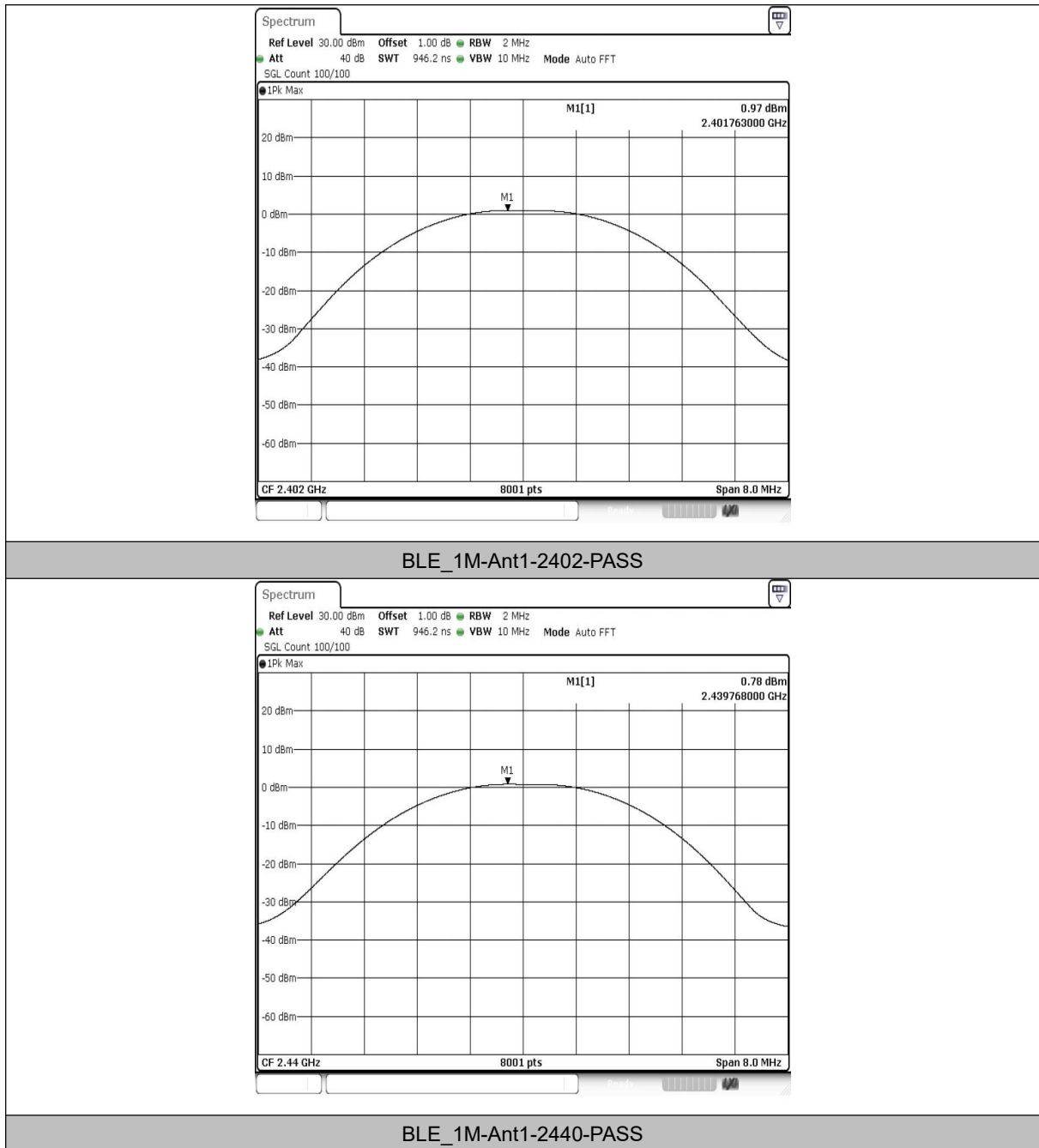
BLE_2M-Ant1-2480

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	0.97	≤30	PASS
BLE_1M	Ant1	2440	0.78	≤30	PASS
BLE_1M	Ant1	2480	0.16	≤30	PASS
BLE_2M	Ant1	2402	1.06	≤30	PASS
BLE_2M	Ant1	2440	0.99	≤30	PASS
BLE_2M	Ant1	2480	0.36	≤30	PASS

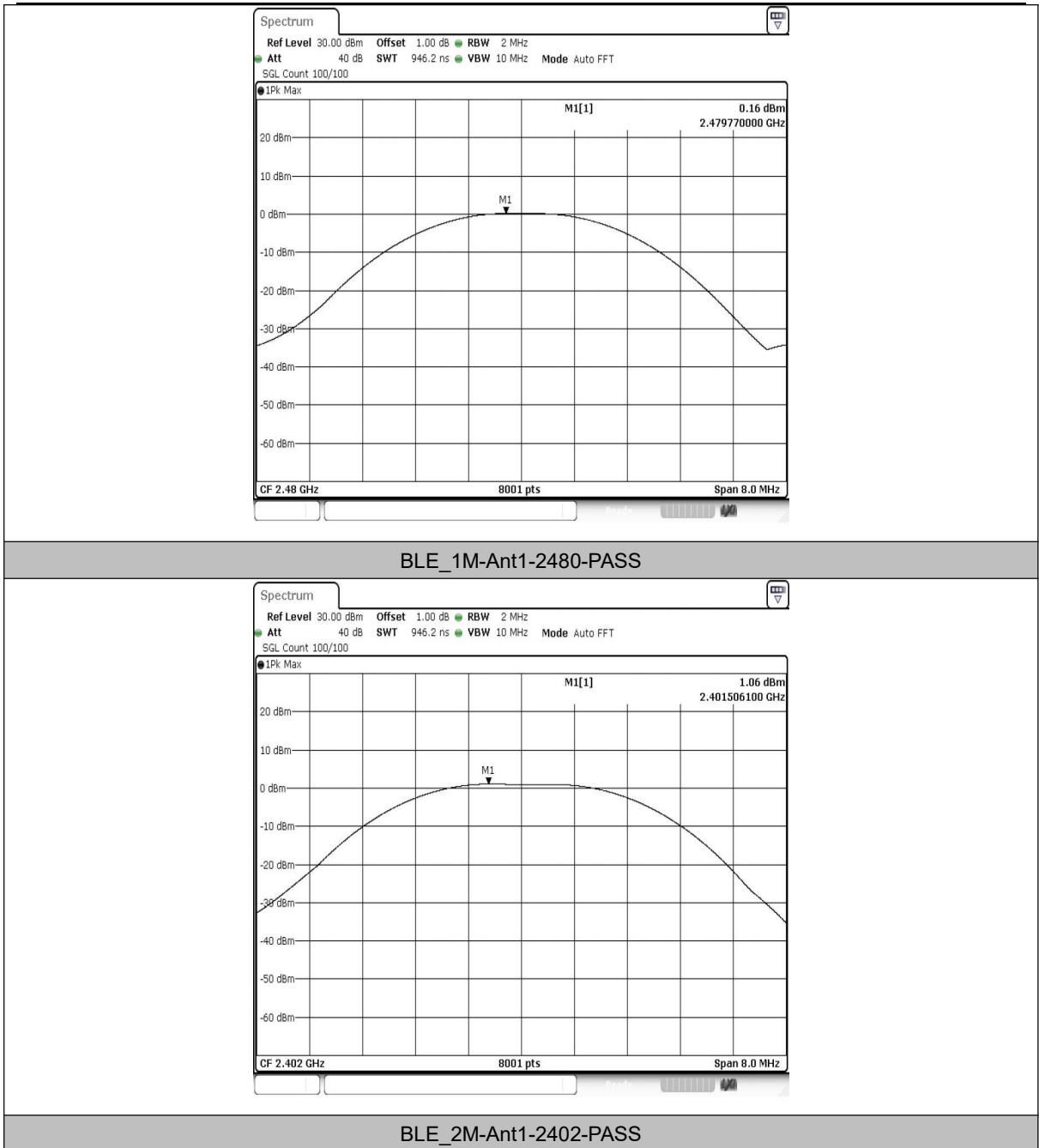
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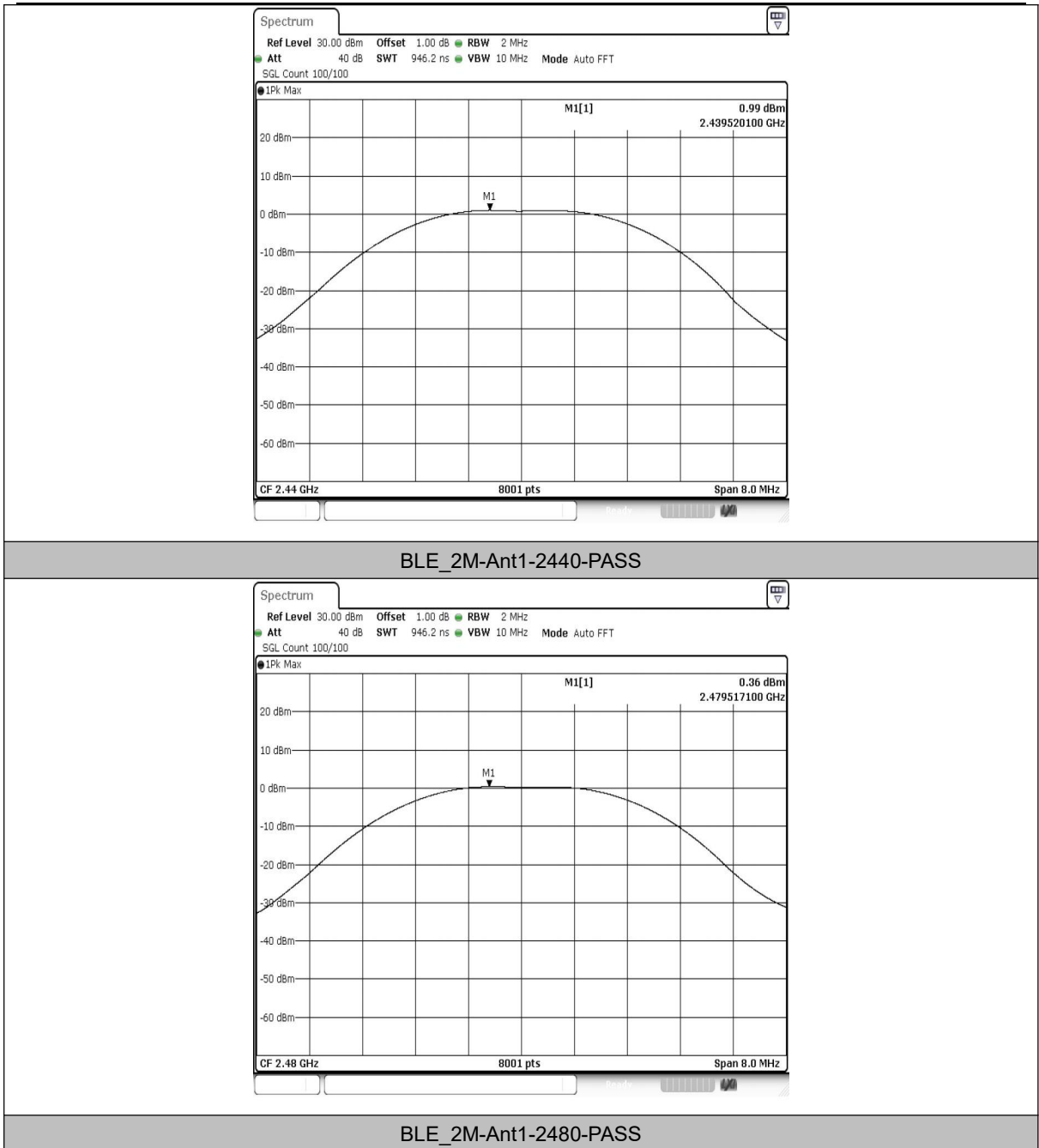
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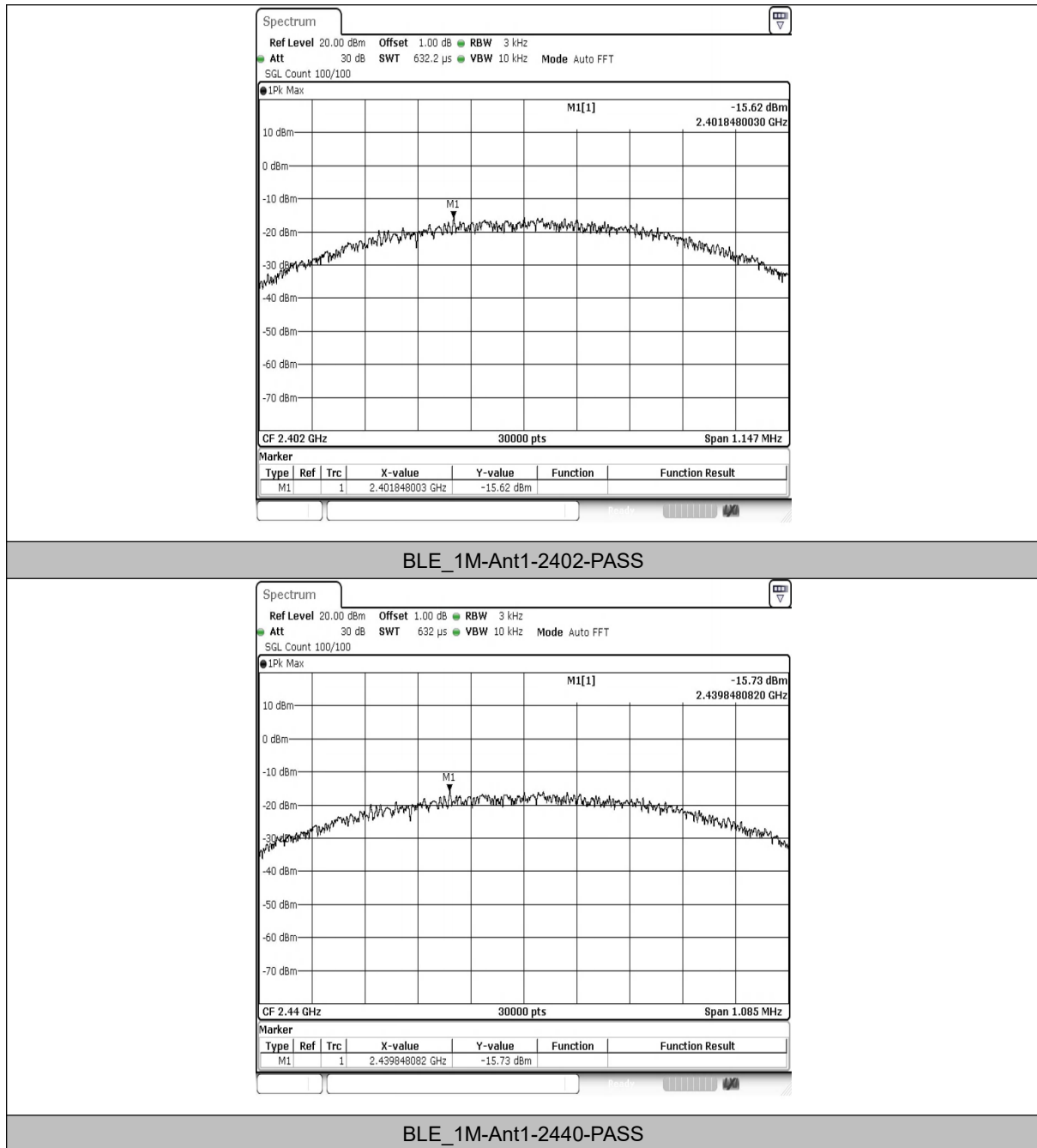
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.62	≤8.00	PASS
BLE_1M	Ant1	2440	-15.73	≤8.00	PASS
BLE_1M	Ant1	2480	-16.32	≤8.00	PASS
BLE_2M	Ant1	2402	-18.17	≤8.00	PASS
BLE_2M	Ant1	2440	-17.83	≤8.00	PASS
BLE_2M	Ant1	2480	-18.37	≤8.00	PASS

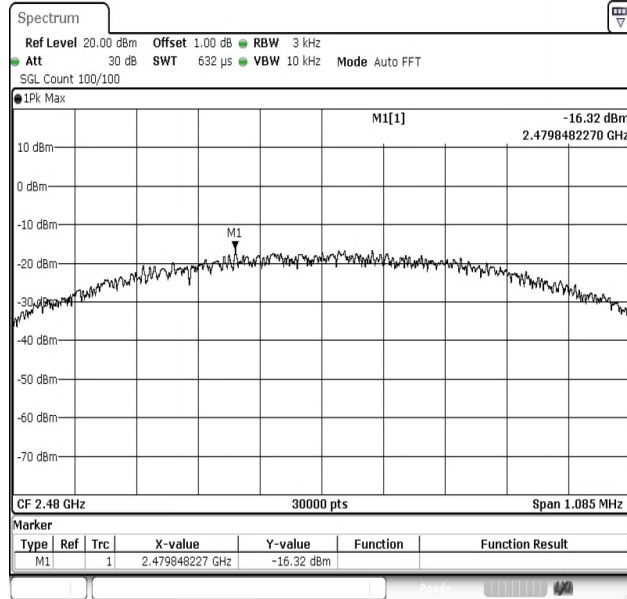
Test Graphs



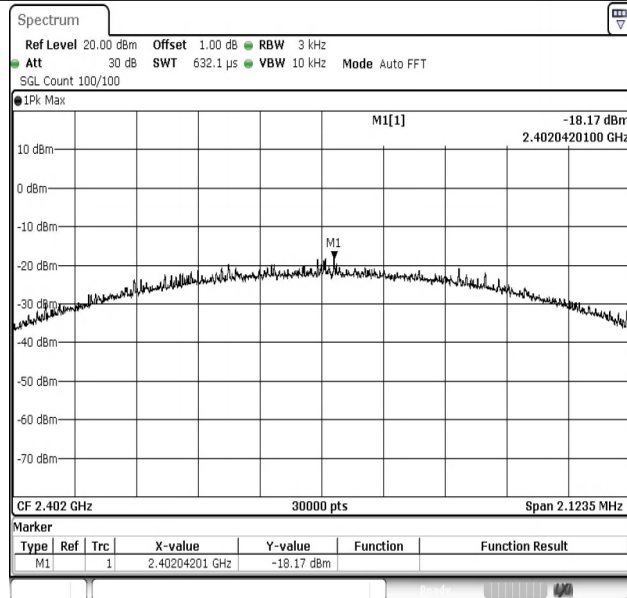
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BLE_1M-Ant1-2480-PASS

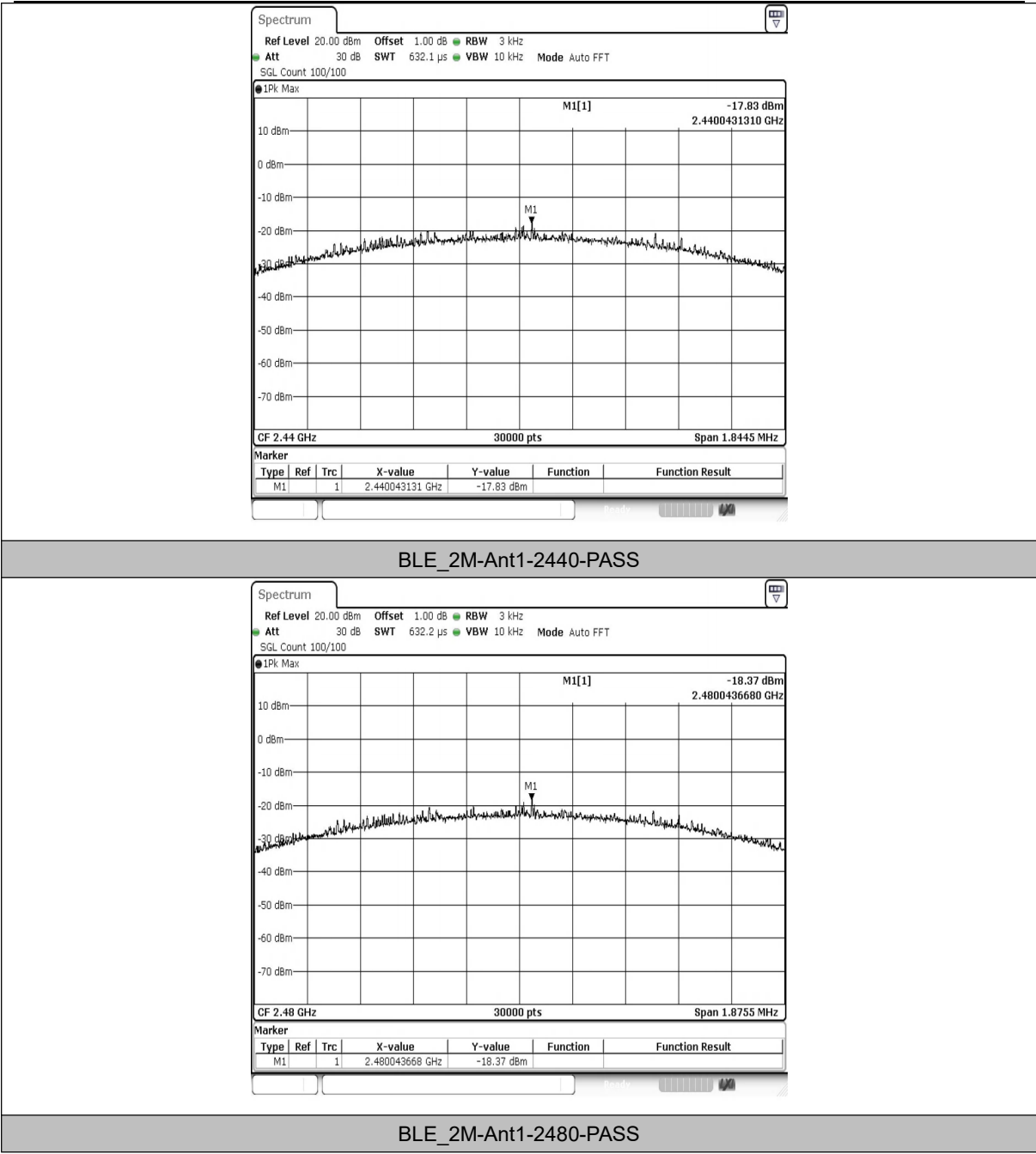


BLE_2M-Ant1-2402-PASS

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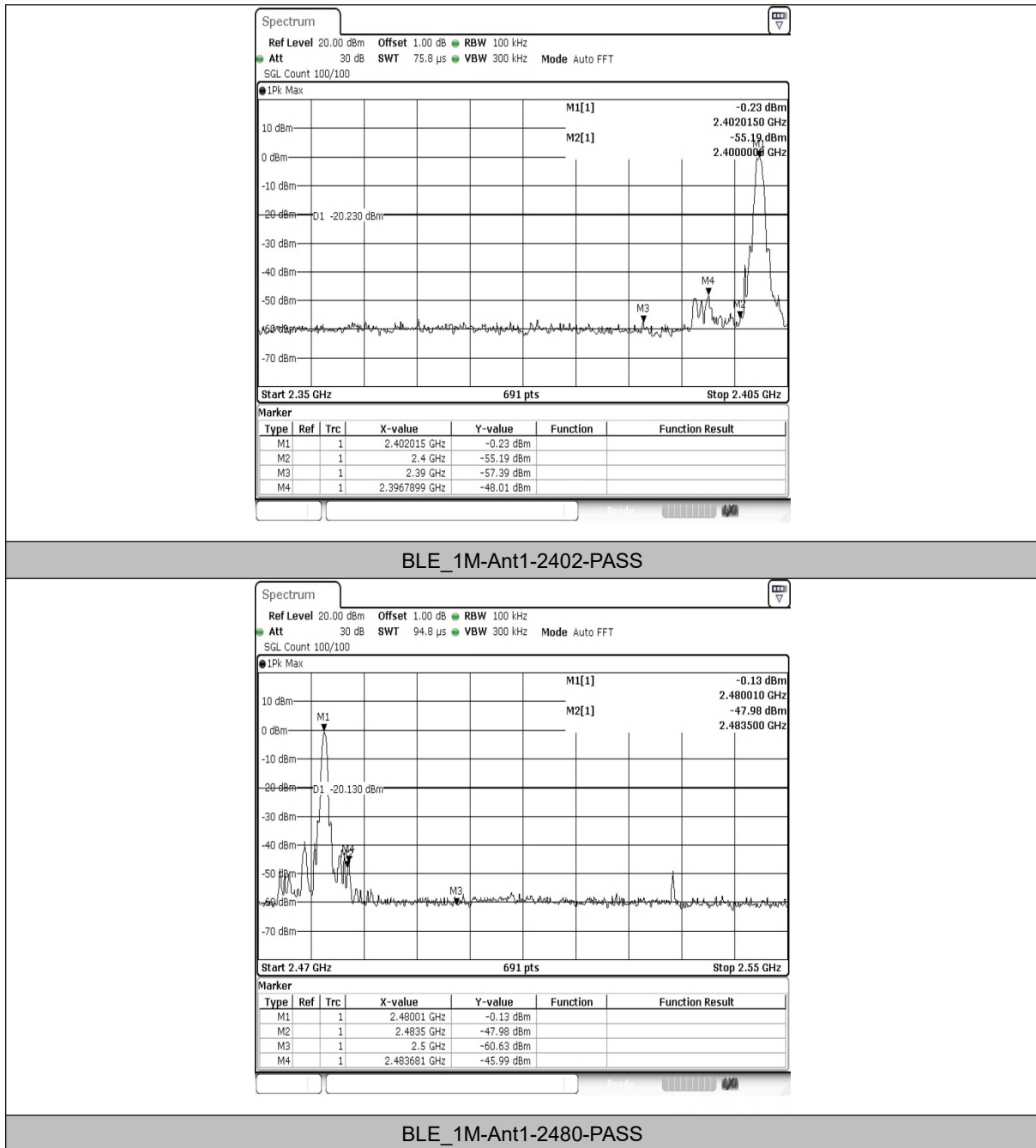
Appendix E: Band edge measurements

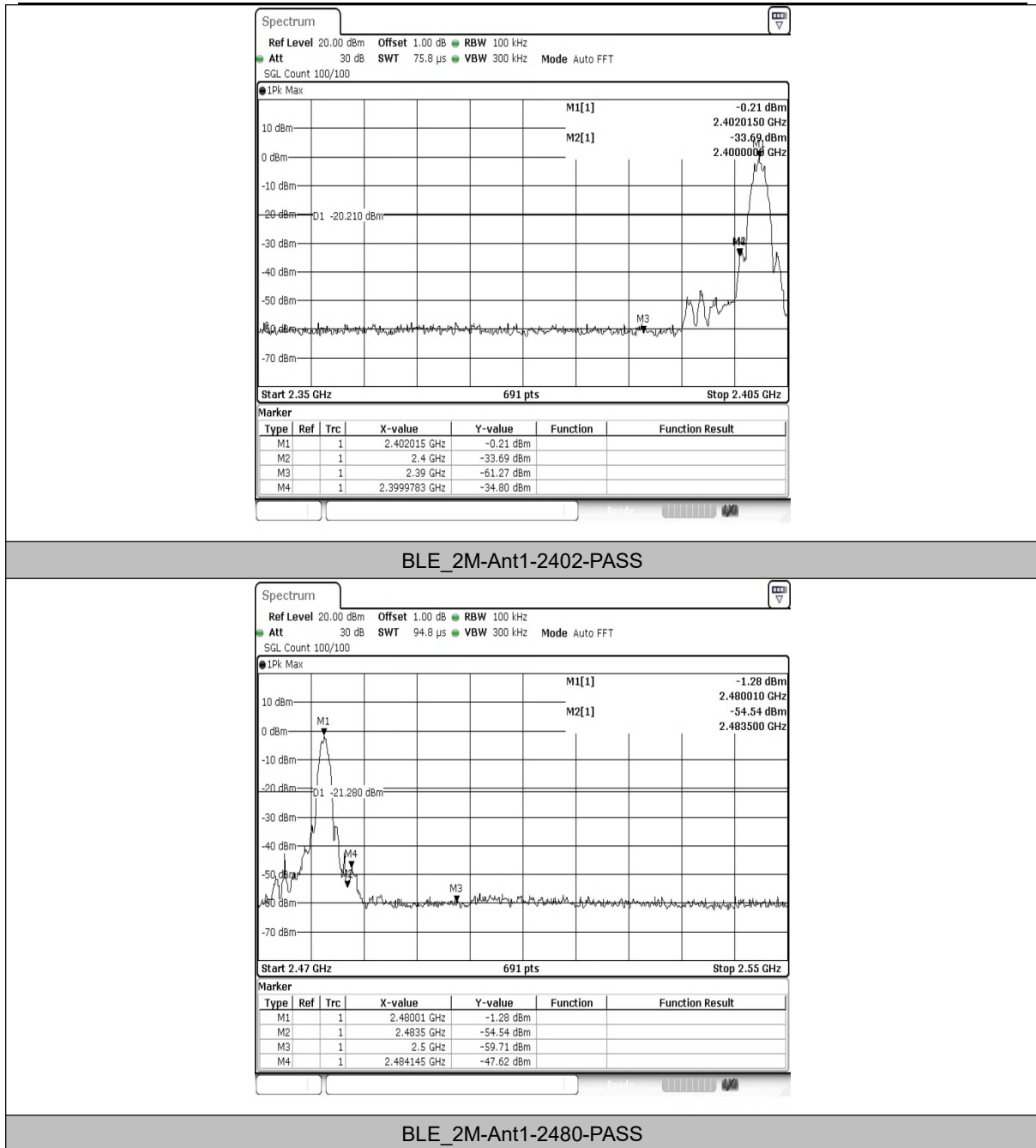
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.23	-48.01	≤-20.23	PASS
BLE_1M	Ant1	High	2480	-0.13	-45.99	≤-20.13	PASS
BLE_2M	Ant1	Low	2402	-0.21	-34.8	≤-20.21	PASS
BLE_2M	Ant1	High	2480	-1.28	-47.62	≤-21.28	PASS

Remark:1. Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'offset' of the Spectrum Analyzer during the test.

Test Graphs





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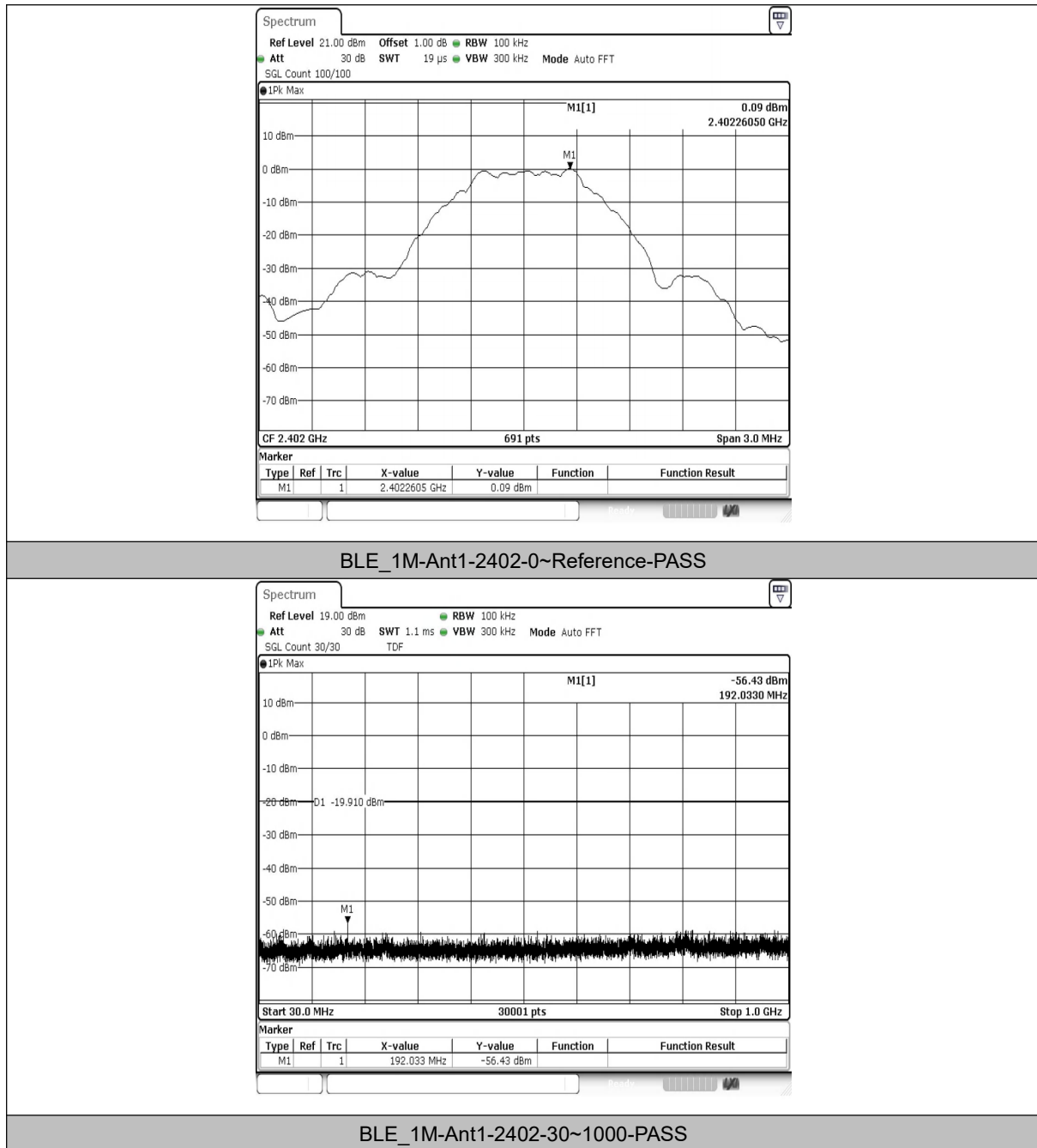
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	0.09	0.09	---	PASS
BLE_1M	Ant1	2402	30~1000	0.09	-56.43	≤-19.91	PASS
BLE_1M	Ant1	2402	1000~26500	0.09	-40.63	≤-19.91	PASS
BLE_1M	Ant1	2440	0~Reference	0.40	0.40	---	PASS
BLE_1M	Ant1	2440	30~1000	0.40	-56.64	≤-19.6	PASS
BLE_1M	Ant1	2440	1000~26500	0.40	-33.02	≤-19.6	PASS
BLE_1M	Ant1	2480	0~Reference	-0.64	-0.64	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.64	-55.72	≤-20.64	PASS
BLE_1M	Ant1	2480	1000~26500	-0.64	-38.86	≤-20.64	PASS
BLE_2M	Ant1	2402	0~Reference	0.38	0.38	---	PASS
BLE_2M	Ant1	2402	30~1000	0.38	-56.29	≤-19.62	PASS
BLE_2M	Ant1	2402	1000~26500	0.38	-40.37	≤-19.62	PASS
BLE_2M	Ant1	2440	0~Reference	-0.21	-0.21	---	PASS
BLE_2M	Ant1	2440	30~1000	-0.21	-56.51	≤-20.21	PASS
BLE_2M	Ant1	2440	1000~26500	-0.21	-41.39	≤-20.21	PASS
BLE_2M	Ant1	2480	0~Reference	-2.43	-2.43	---	PASS
BLE_2M	Ant1	2480	30~1000	-2.43	-56.59	≤-22.43	PASS
BLE_2M	Ant1	2480	1000~26500	-2.43	-39.57	≤-22.43	PASS

Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'TDF' of the Spectrum Analyzer during the test.

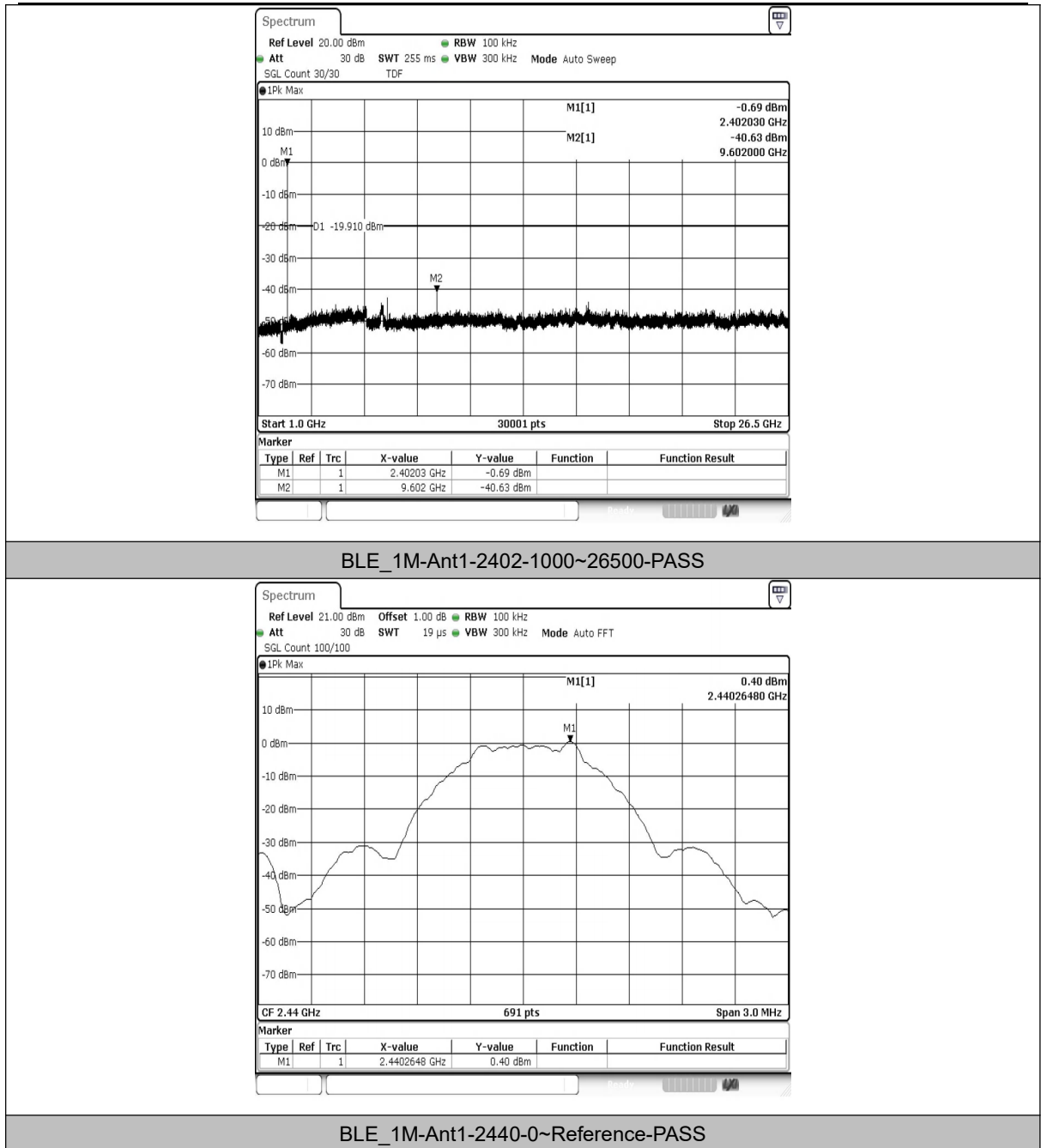
Test Graphs



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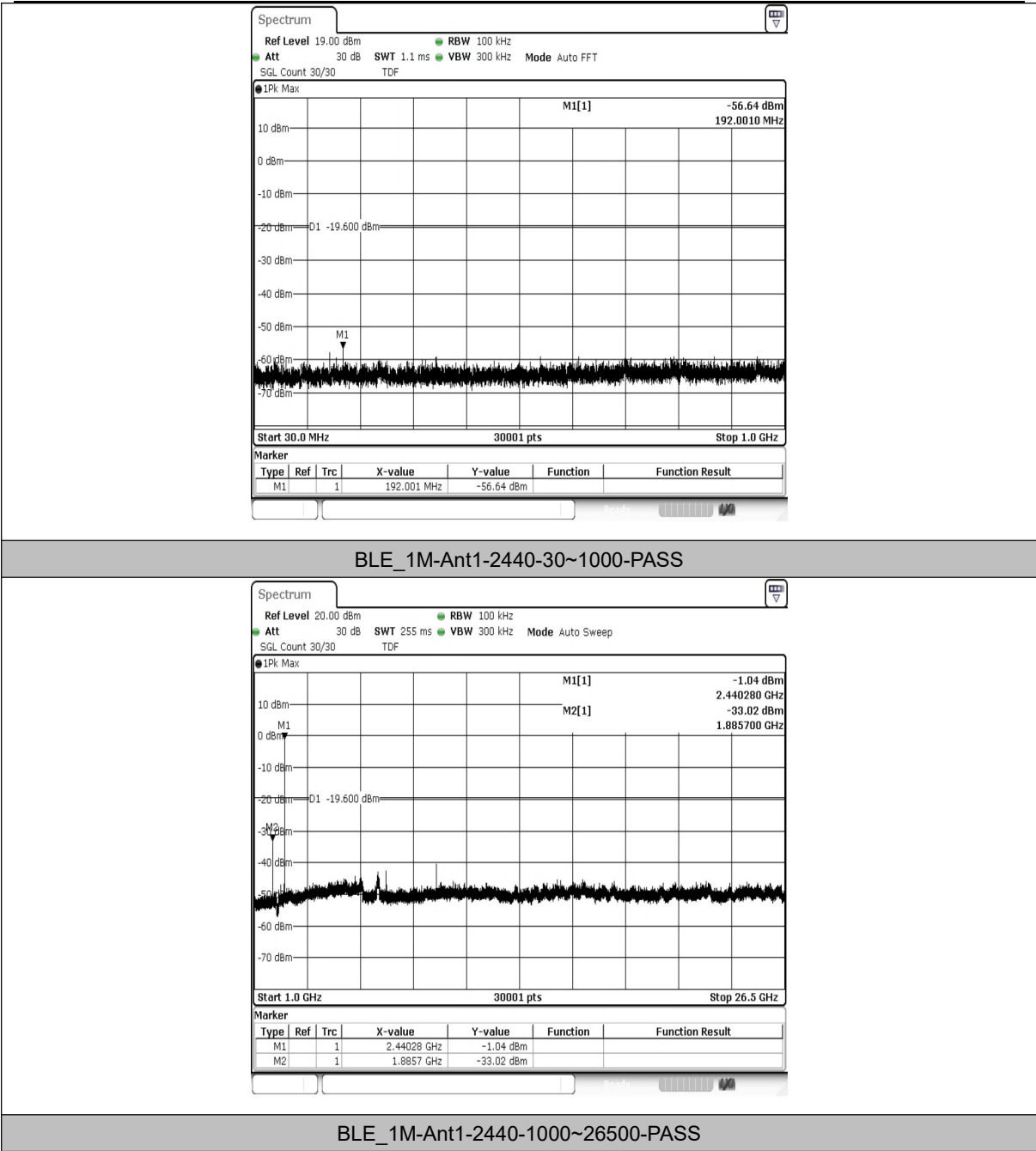
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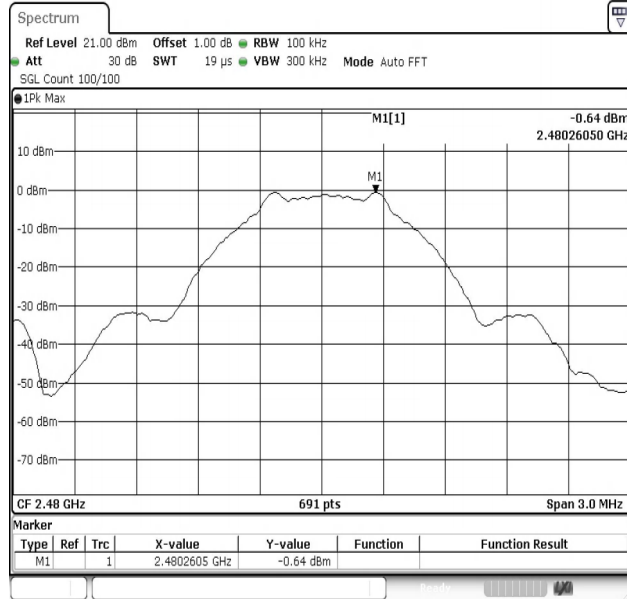


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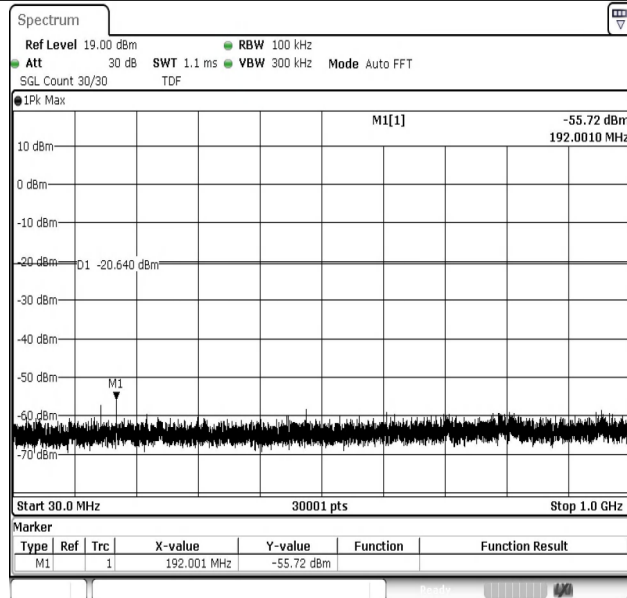
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BLE_1M-Ant1-2480-0~Reference-PASS

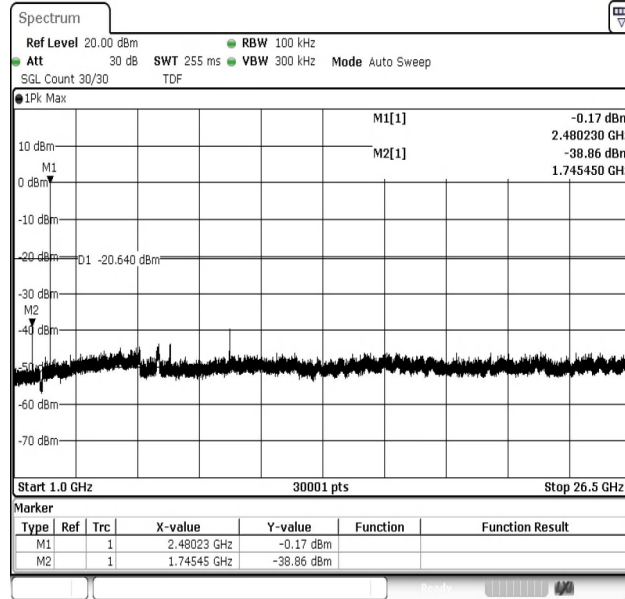


BLE_1M-Ant1-2480-30~1000-PASS

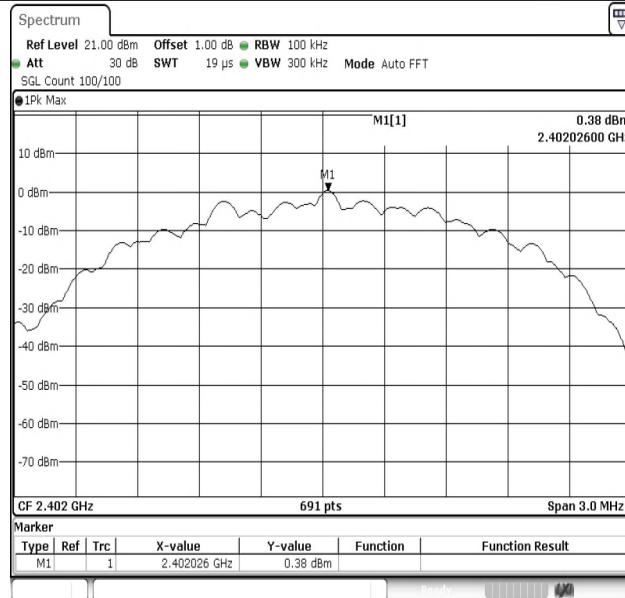
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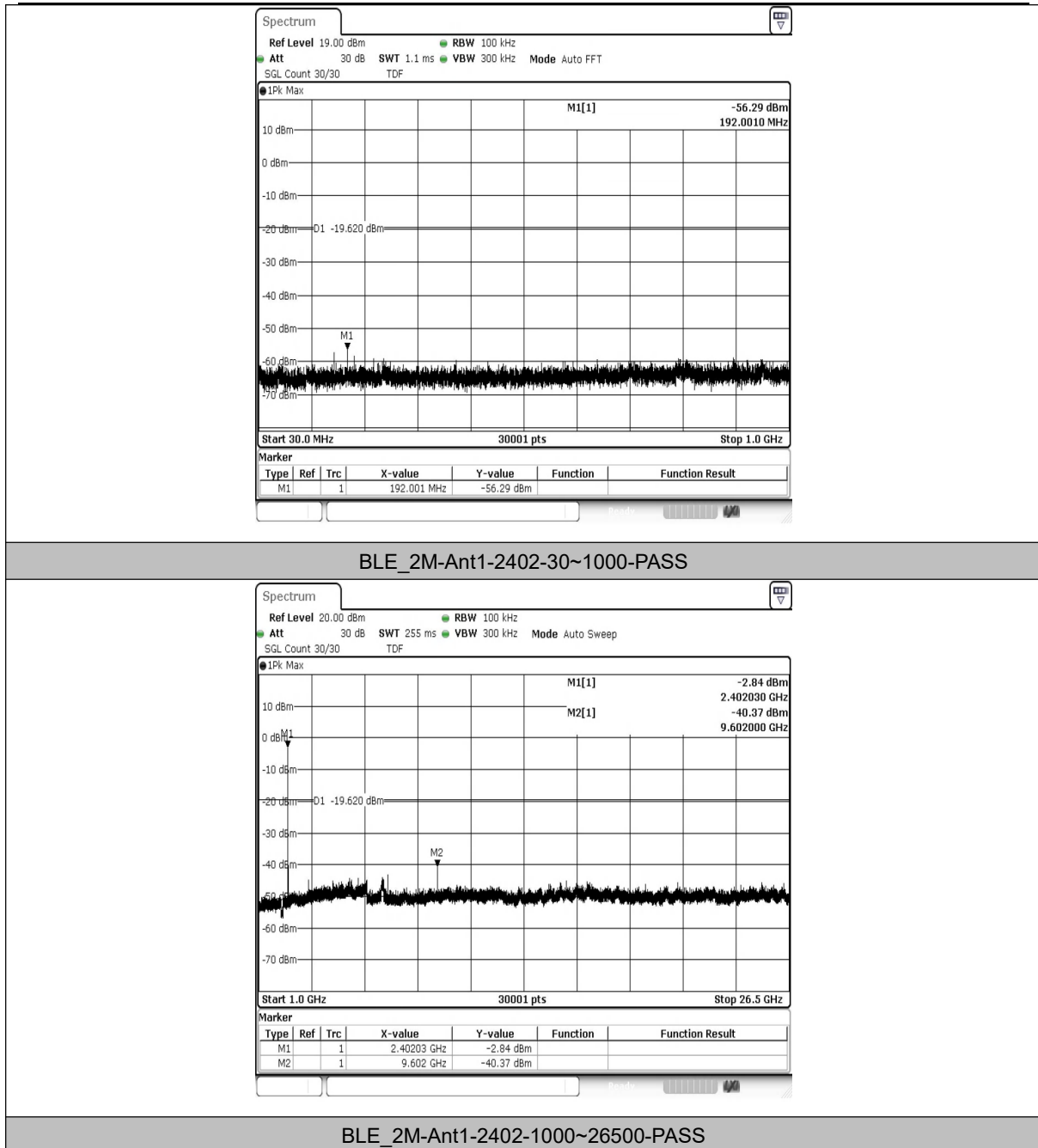


BLE_2M-Ant1-2402-0~Reference-PASS

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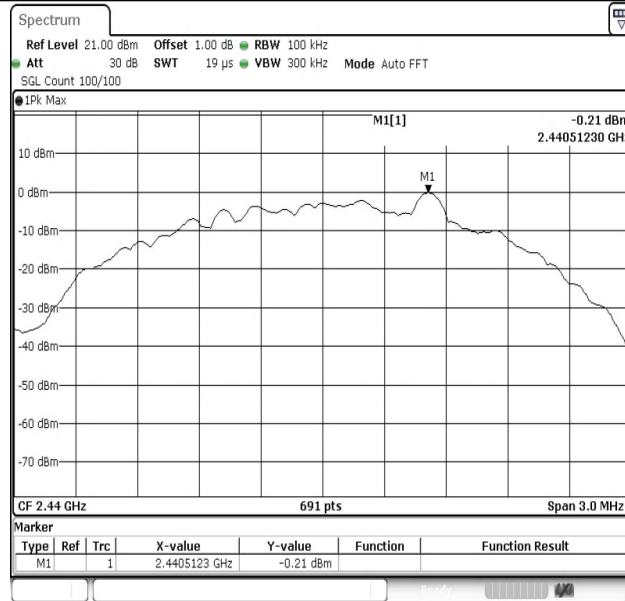
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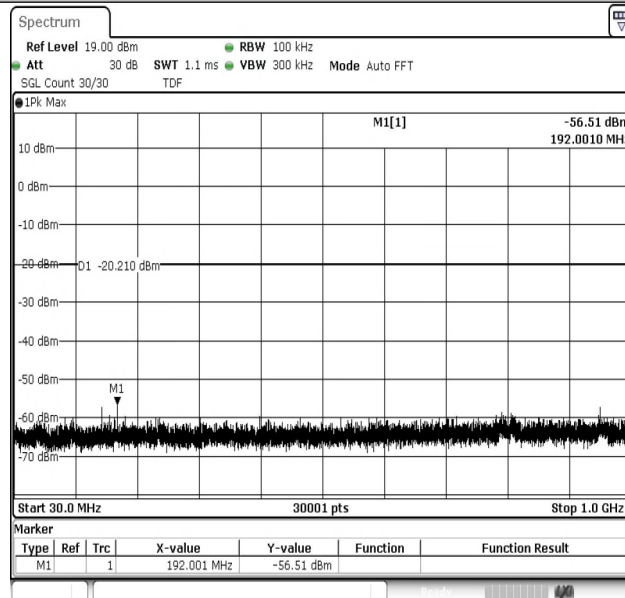
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BLE_2M-Ant1-2440-0~Reference-PASS

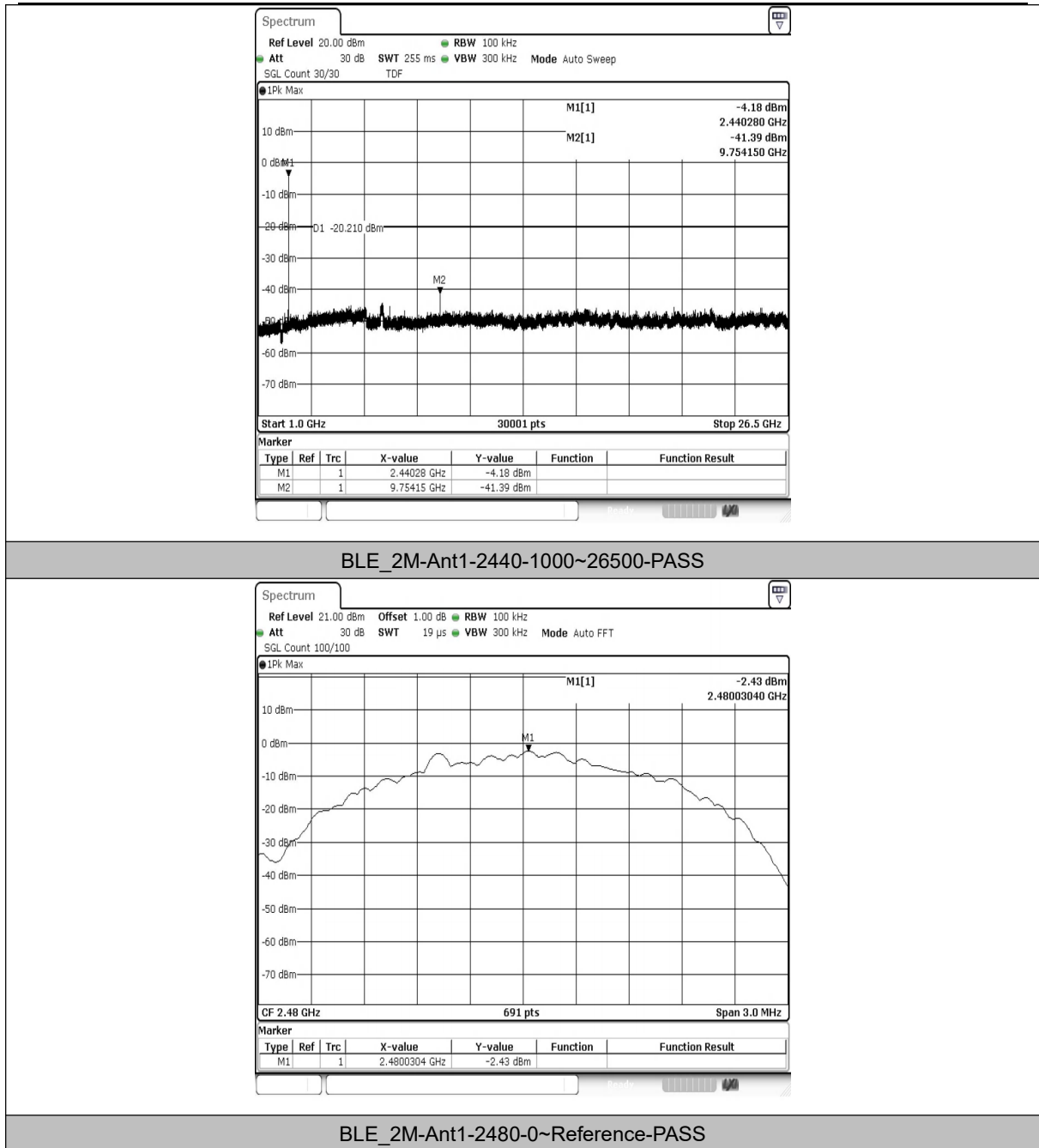


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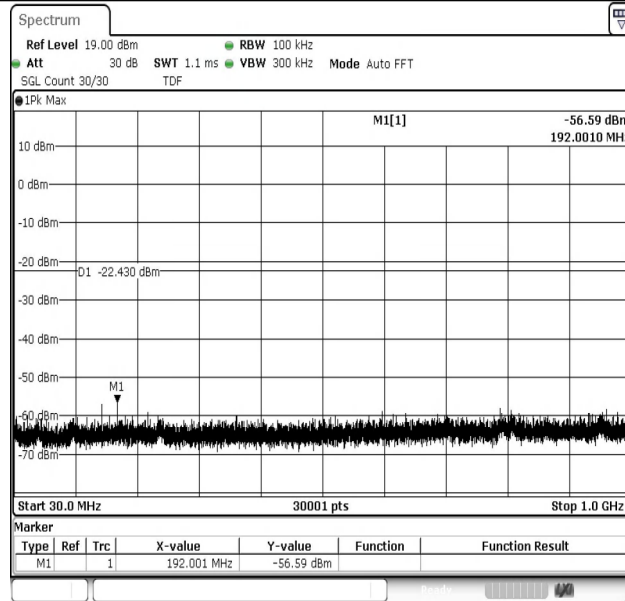
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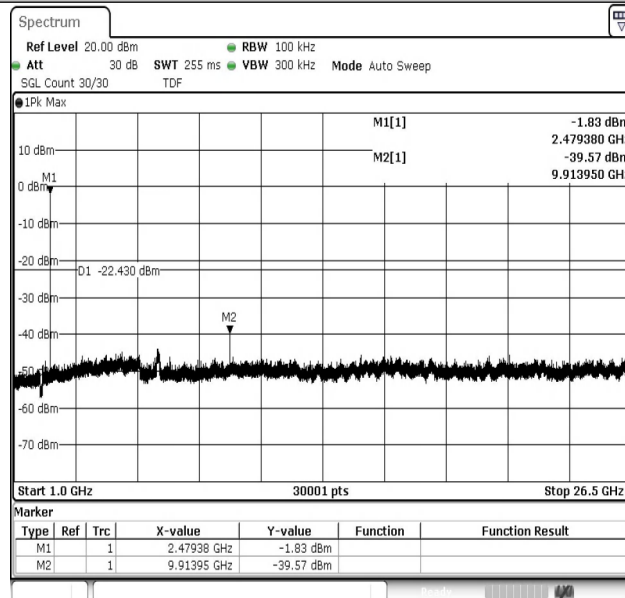
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BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS

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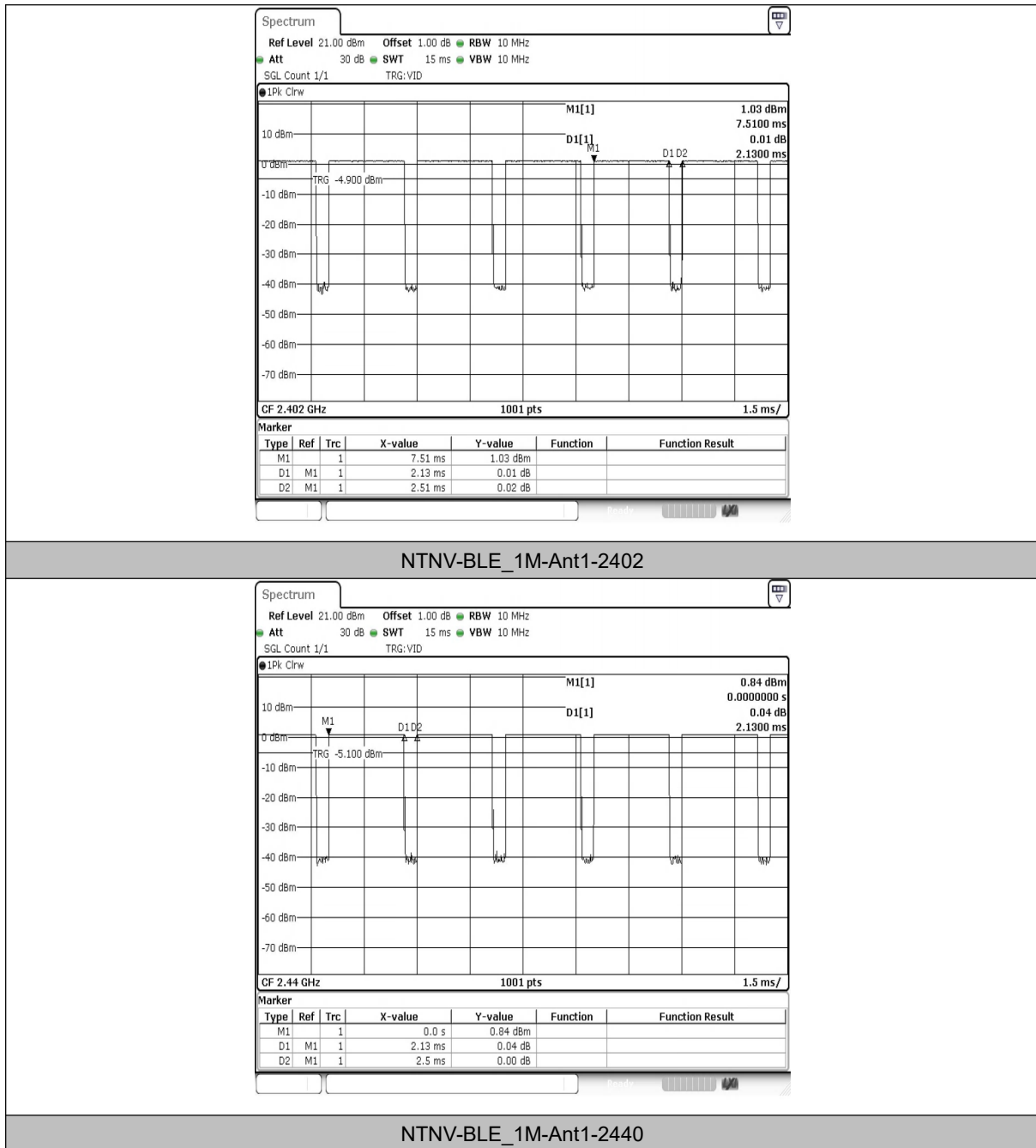
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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	2.51	84.86	0.71
BLE_1M	Ant1	2440	2.13	2.50	85.20	0.70
BLE_1M	Ant1	2480	2.13	2.51	84.86	0.71
BLE_2M	Ant1	2402	1.08	2.50	43.20	3.65
BLE_2M	Ant1	2440	1.08	2.50	43.20	3.65
BLE_2M	Ant1	2480	1.08	2.50	43.20	3.65

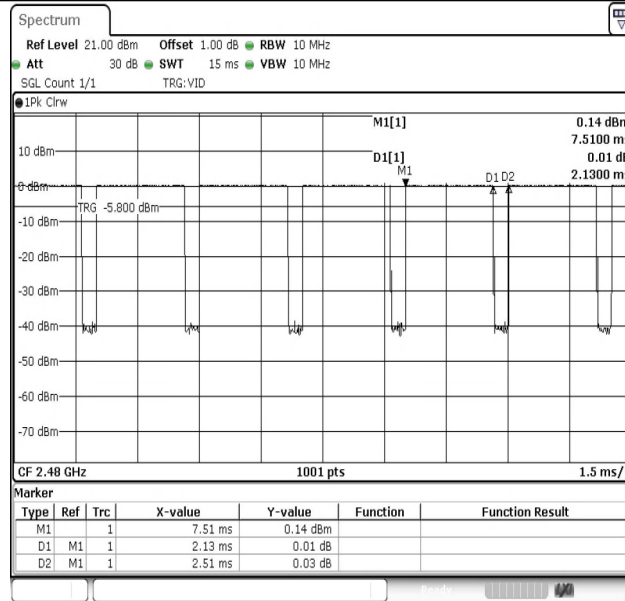
Test Graphs



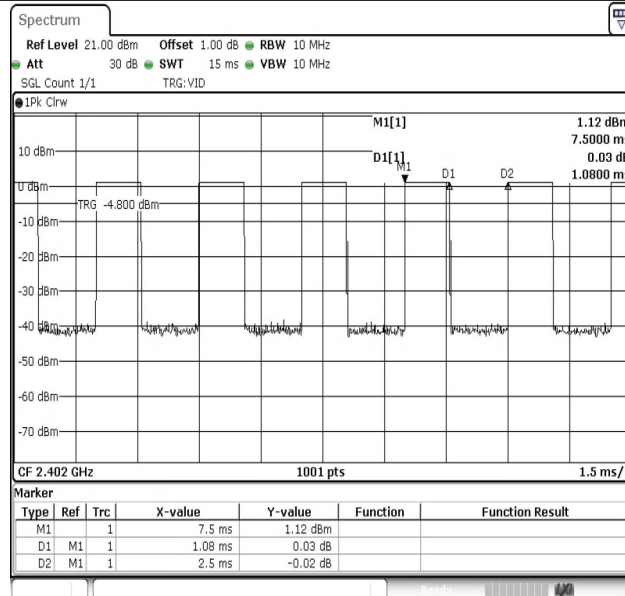
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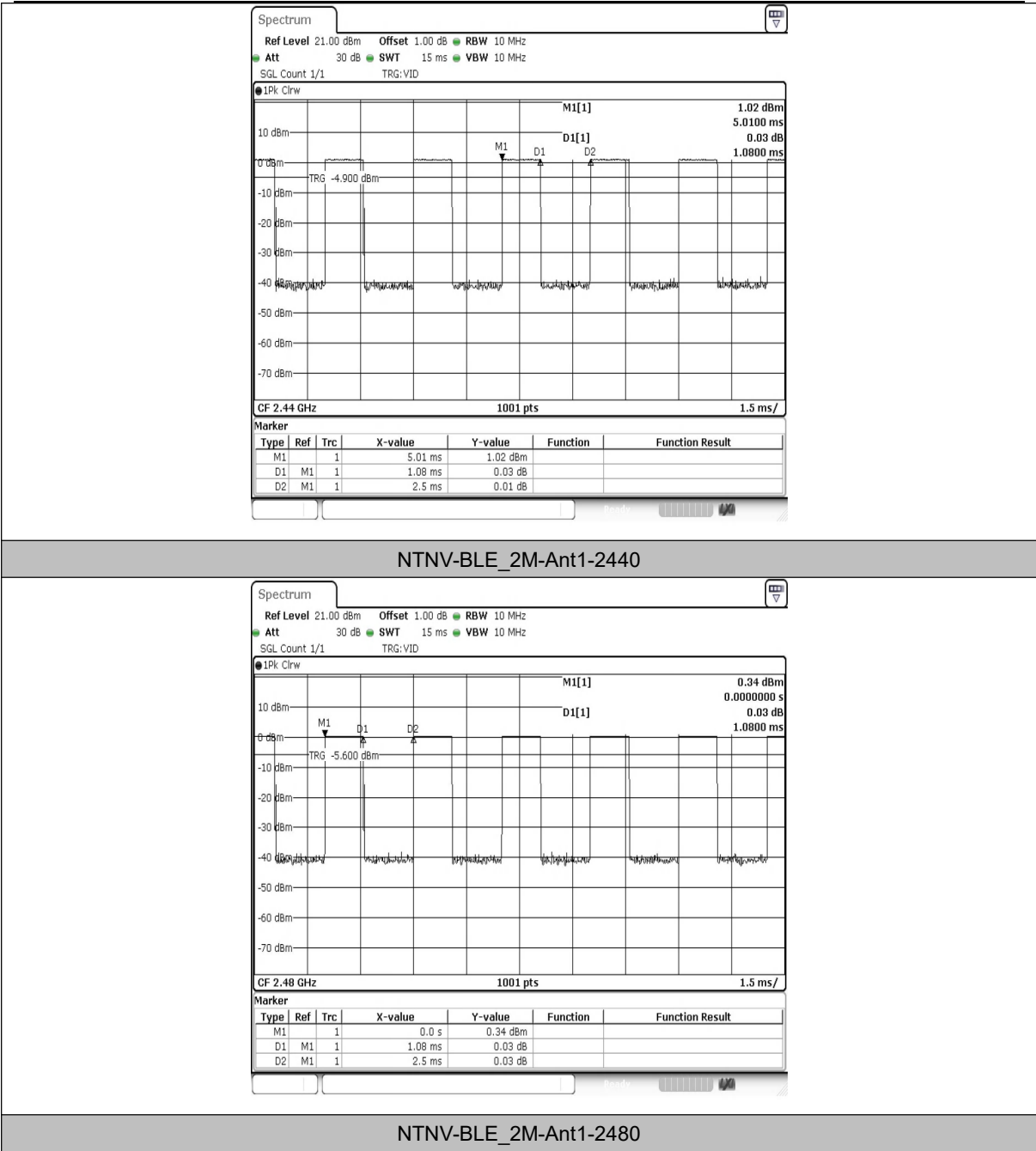
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NTNV-BLE_2M-Ant1-2402



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