

Appendix Test Data

Report No.:	1812C50617312502-01	Test Sample No.:	1-2-2
Start Test Date:	2025-12-11	Finish Test Date:	2025-03-05
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	21.3°C	Relative Humidity:	59%
Pressure:	101kPa		

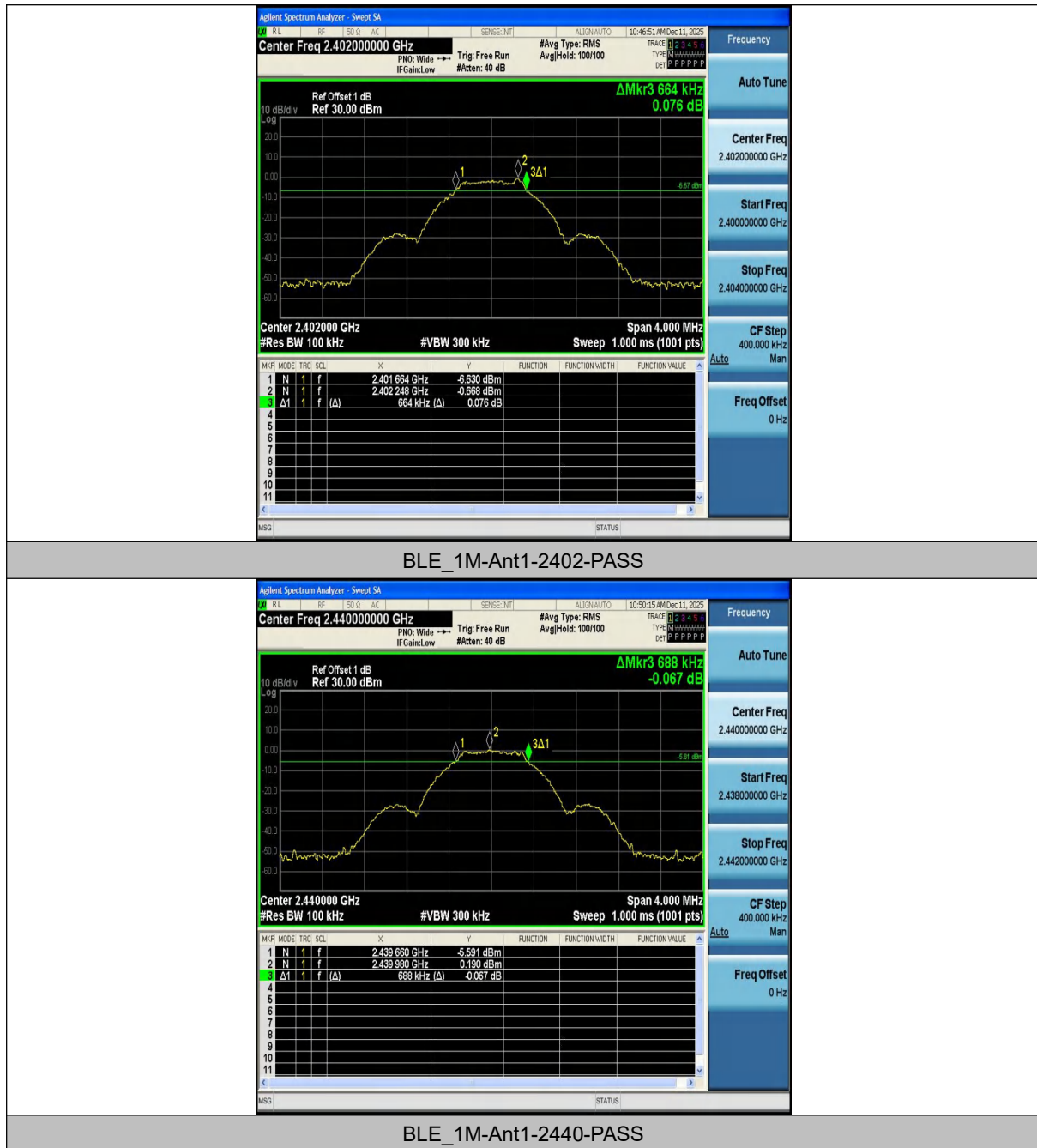


Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.664	2402.328	0.5	PASS
BLE_1M	Ant1	2440	0.688	2439.660	2440.348	0.5	PASS
BLE_1M	Ant1	2480	0.660	2479.672	2480.332	0.5	PASS
BLE_2M	Ant1	2404	1.144	2403.420	2404.564	0.5	PASS
BLE_2M	Ant1	2440	1.236	2439.352	2440.588	0.5	PASS
BLE_2M	Ant1	2478	1.144	2477.440	2478.584	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	1.0257	2401.4890	2402.5147	---	---
BLE_1M	Ant1	2440	1.0297	2439.4918	2440.5215	---	---
BLE_1M	Ant1	2480	1.0258	2479.4876	2480.5134	---	---
BLE_2M	Ant1	2404	2.0571	2402.9878	2405.0449	---	---
BLE_2M	Ant1	2440	2.0489	2439.0003	2441.0492	---	---
BLE_2M	Ant1	2478	2.0677	2476.9835	2479.0512	---	---

Test Graphs



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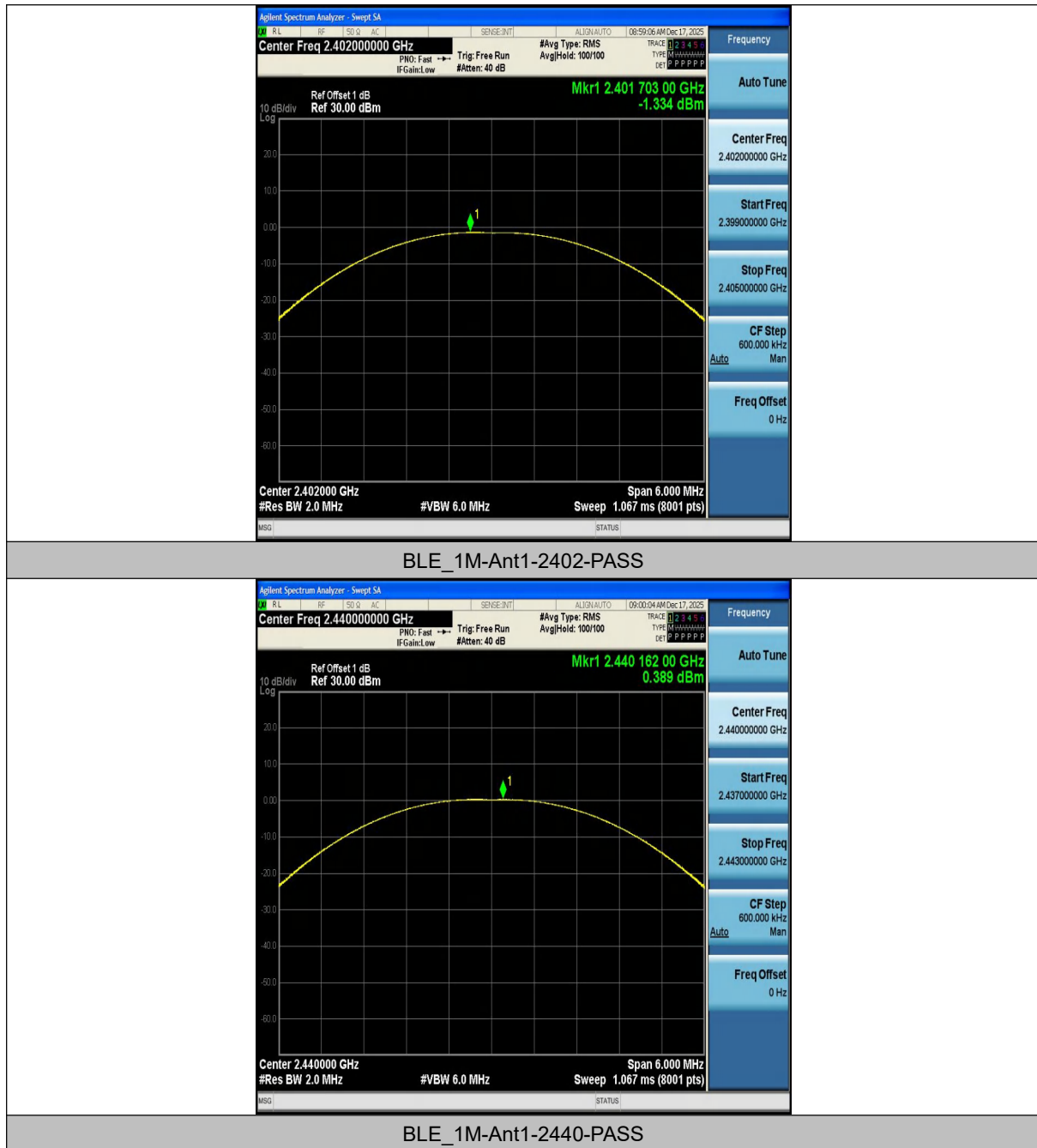


Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.33	≤30	PASS
BLE_1M	Ant1	2440	0.39	≤30	PASS
BLE_1M	Ant1	2480	0.50	≤30	PASS
BLE_2M	Ant1	2404	-1.53	≤30	PASS
BLE_2M	Ant1	2440	0.43	≤30	PASS
BLE_2M	Ant1	2478	0.52	≤30	PASS

Test Graphs Peak



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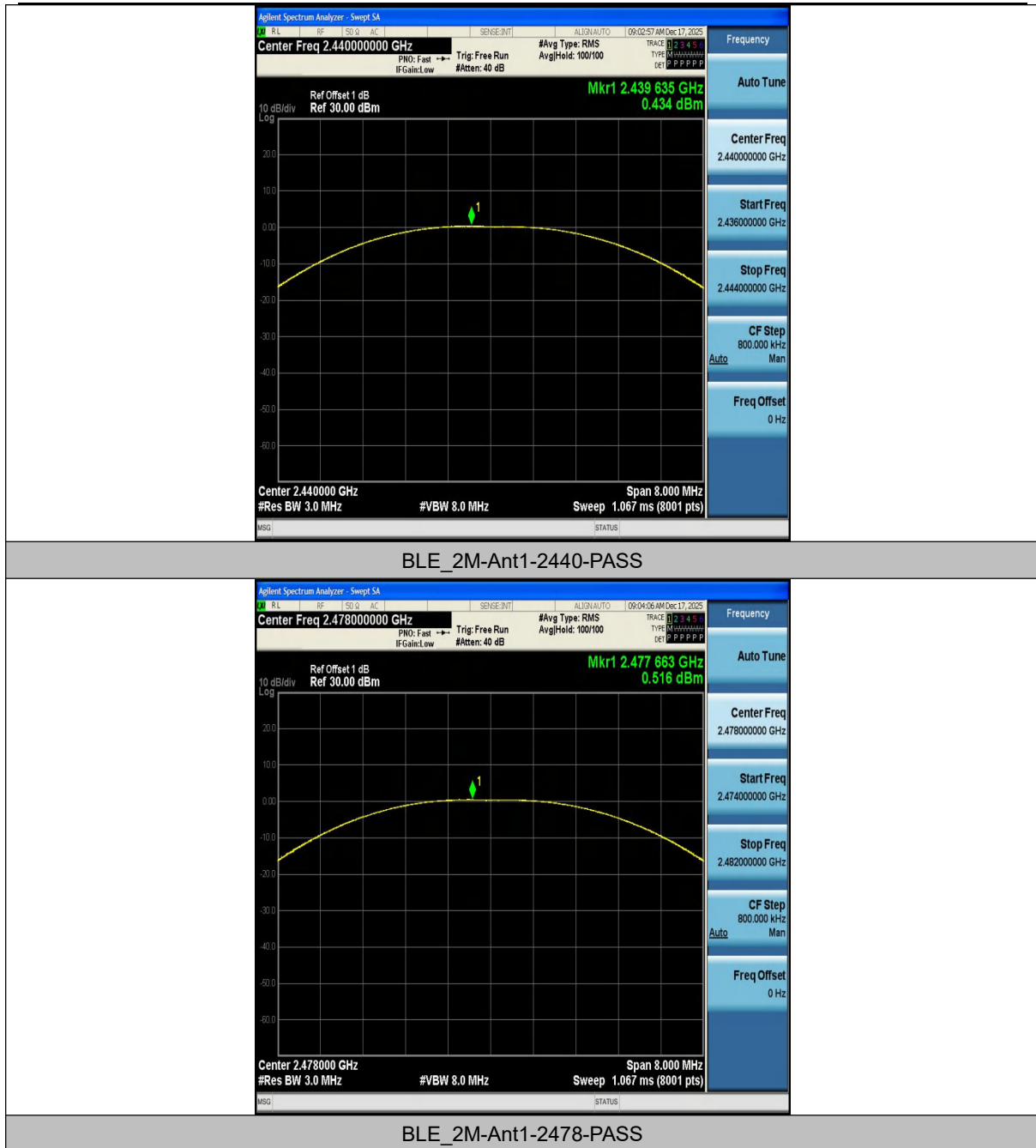
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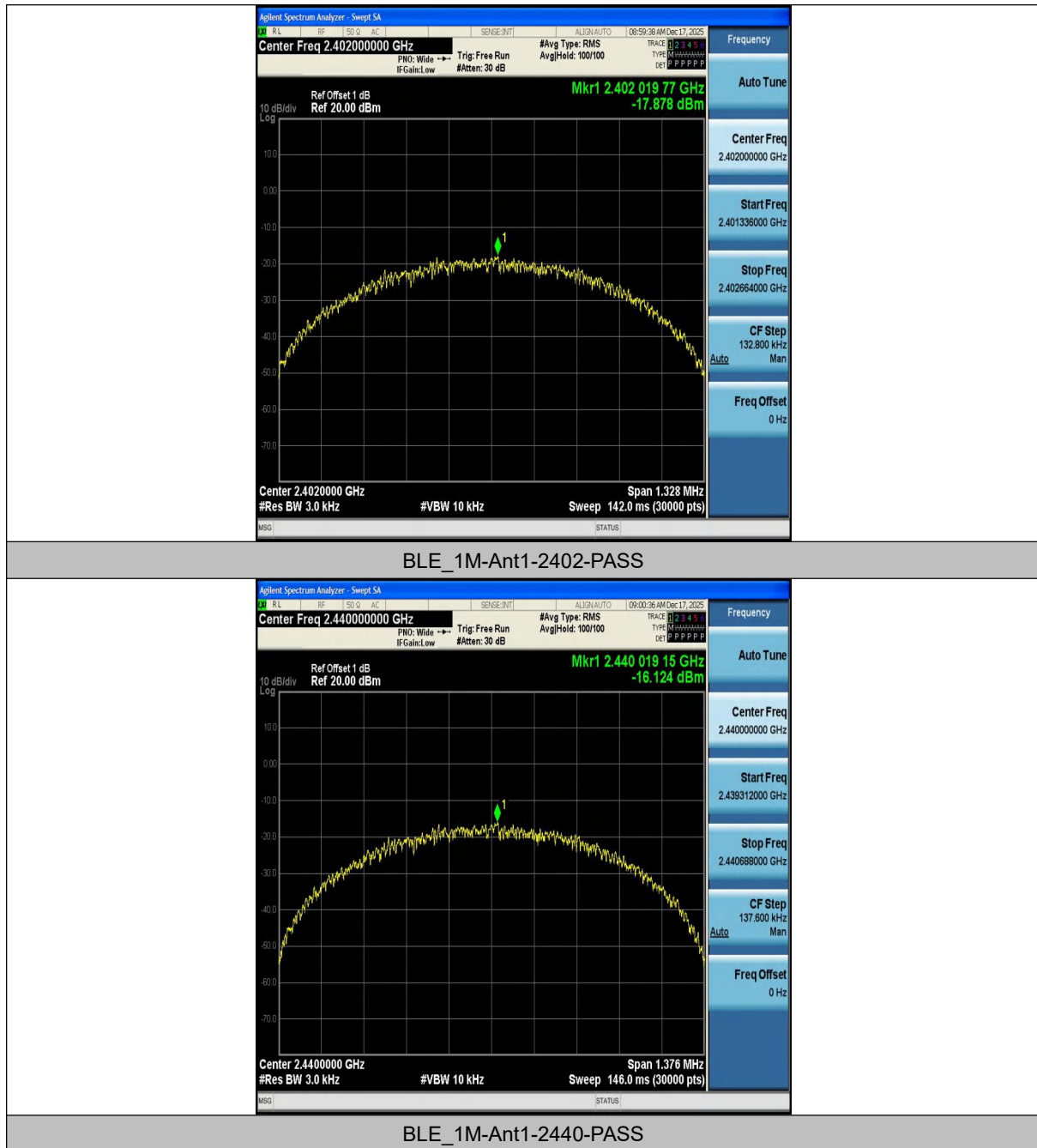
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.88	≤8.00	PASS
BLE_1M	Ant1	2440	-16.12	≤8.00	PASS
BLE_1M	Ant1	2480	-15.95	≤8.00	PASS
BLE_2M	Ant1	2404	-20.38	≤8.00	PASS
BLE_2M	Ant1	2440	-18.46	≤8.00	PASS
BLE_2M	Ant1	2478	-18.29	≤8.00	PASS

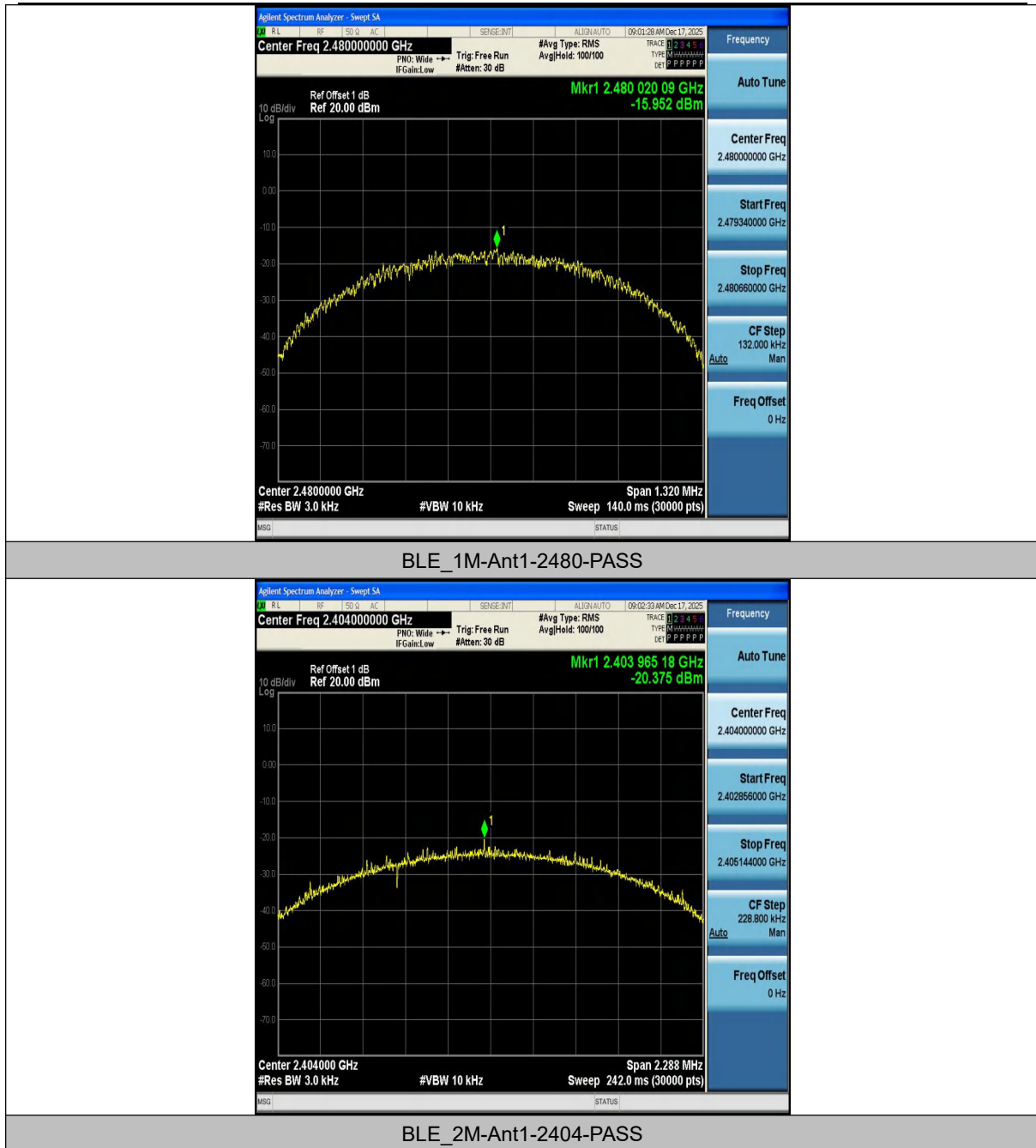
Test Graphs



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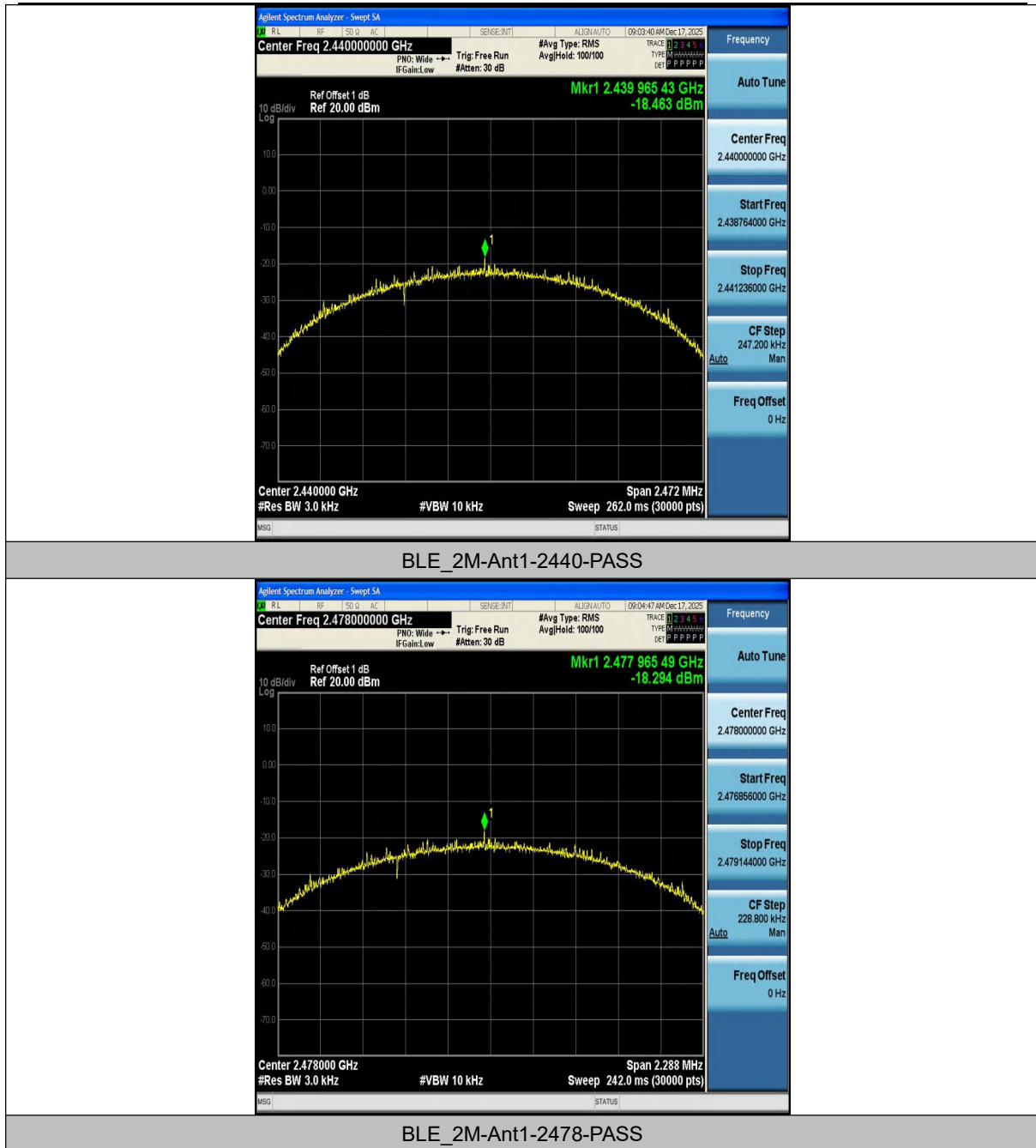
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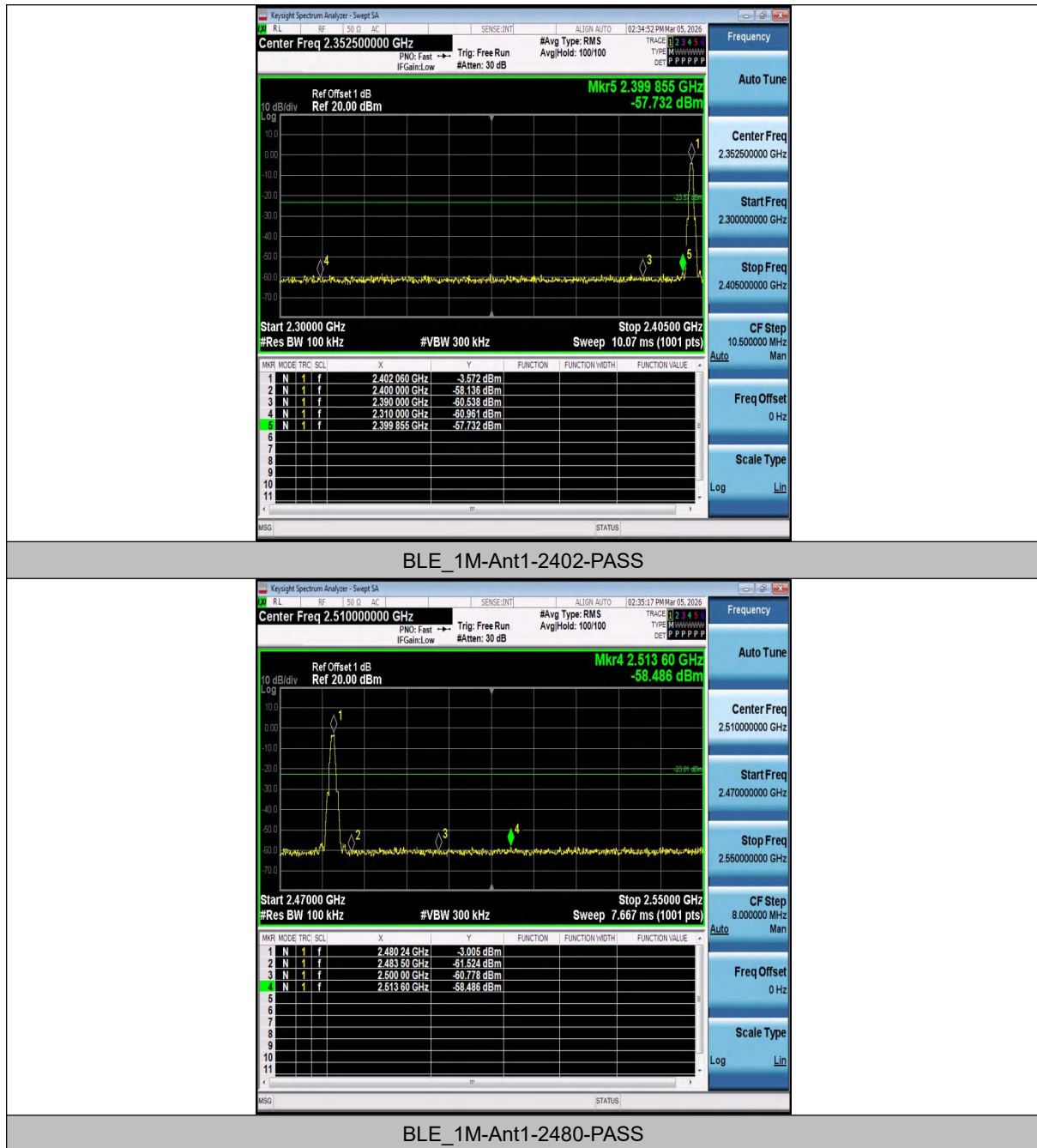
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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.57	-57.73	≤-23.57	PASS
BLE_1M	Ant1	High	2480	-3.01	-58.49	≤-23.01	PASS
BLE_2M	Ant1	Low	2404	-3.61	-57.14	≤-23.61	PASS
BLE_2M	Ant1	High	2478	-1.45	-58.58	≤-21.45	PASS

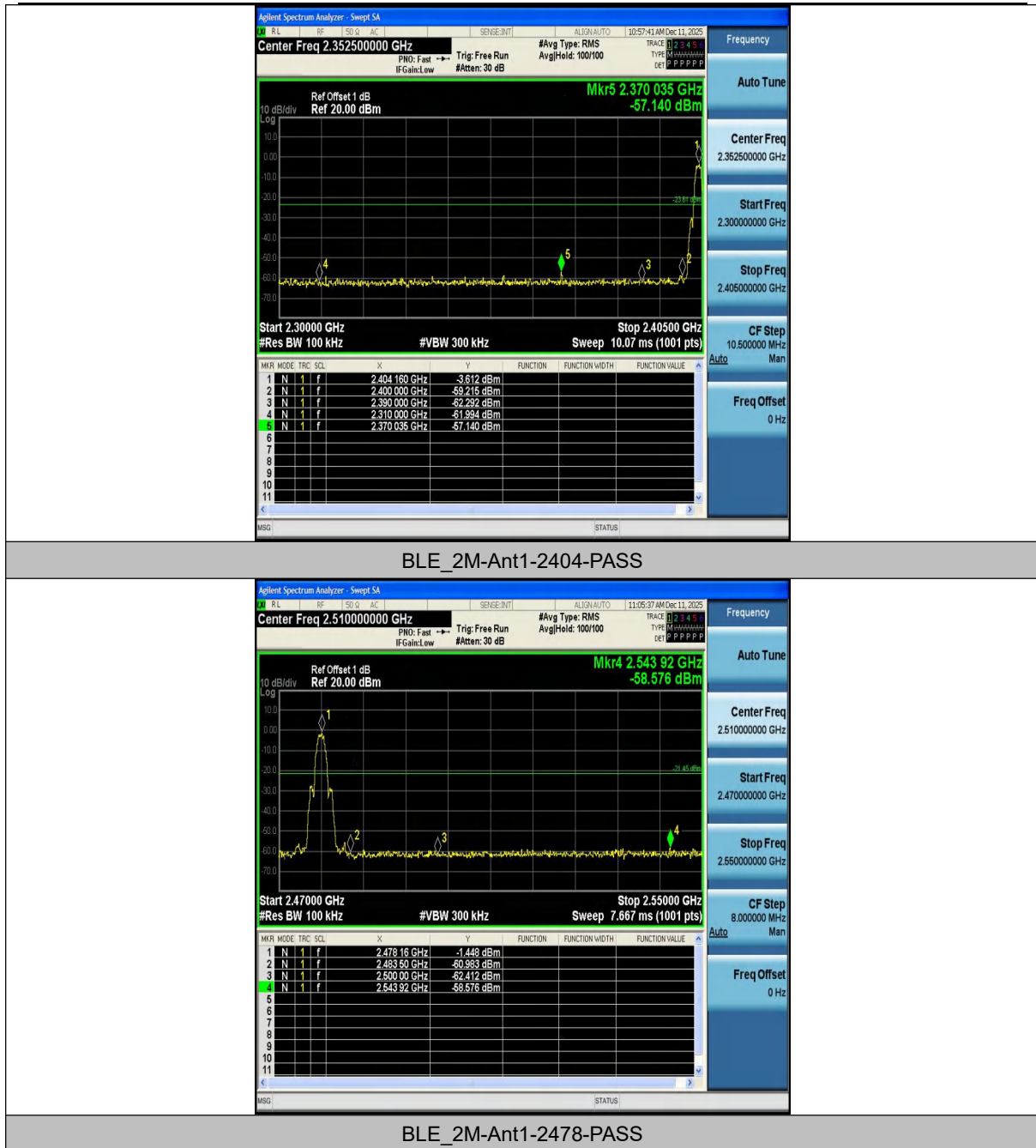
Test Graphs



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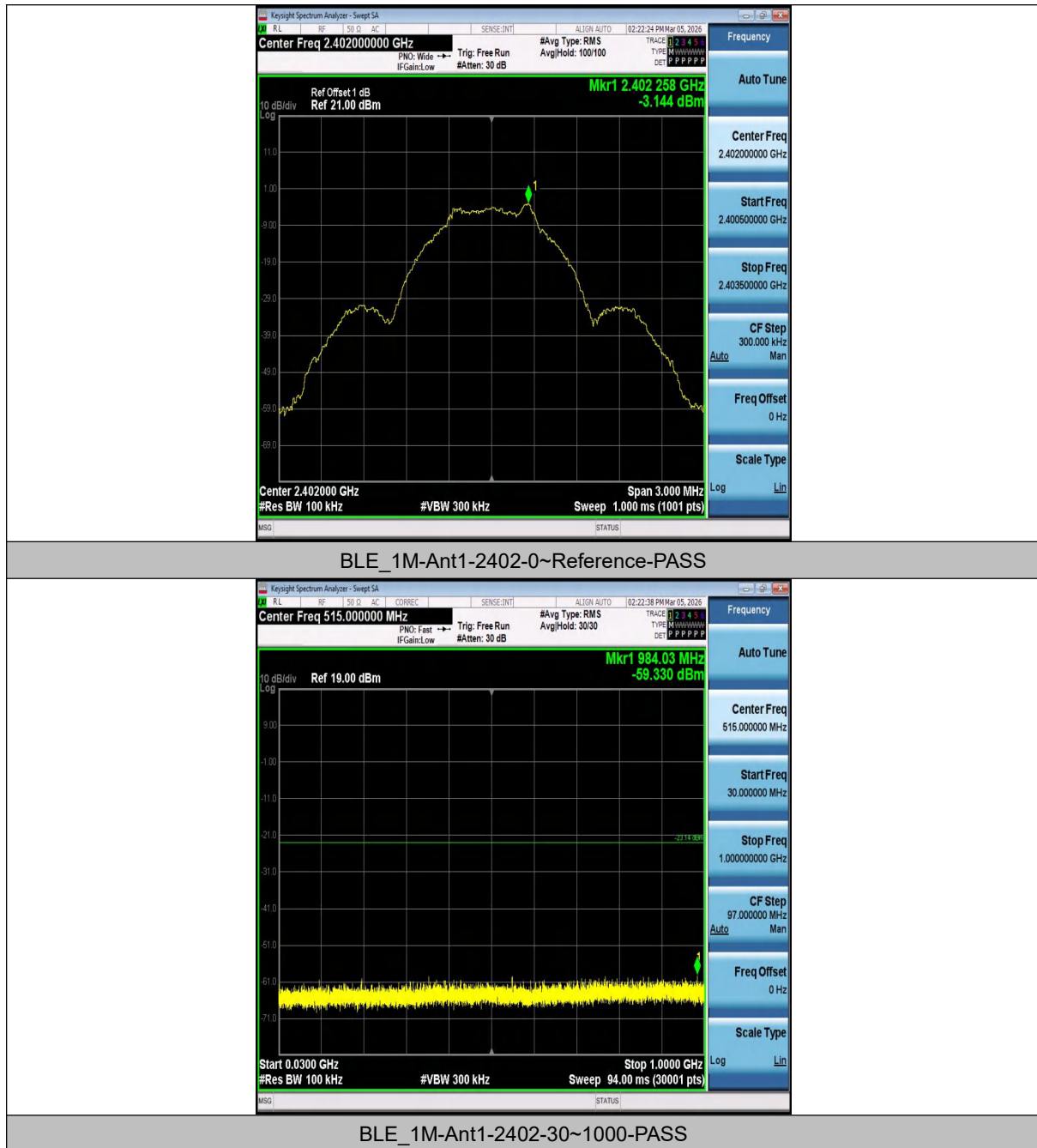
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-3.14	-3.14	---	PASS
BLE_1M	Ant1	2402	30~1000	-3.14	-59.33	≤-23.14	PASS
BLE_1M	Ant1	2402	1000~26500	-3.14	-48.79	≤-23.14	PASS
BLE_1M	Ant1	2440	0~Reference	-2.60	-2.60	---	PASS
BLE_1M	Ant1	2440	30~1000	-2.60	-59.49	≤-22.6	PASS
BLE_1M	Ant1	2440	1000~26500	-2.60	-48.45	≤-22.6	PASS
BLE_1M	Ant1	2480	0~Reference	-3.81	-3.81	---	PASS
BLE_1M	Ant1	2480	30~1000	-3.81	-59.12	≤-23.81	PASS
BLE_1M	Ant1	2480	1000~26500	-3.81	-48.77	≤-23.81	PASS
BLE_2M	Ant1	2404	0~Reference	-2.40	-2.40	---	PASS
BLE_2M	Ant1	2404	30~1000	-2.40	-60.09	≤-22.4	PASS
BLE_2M	Ant1	2404	1000~26500	-2.40	-45.52	≤-22.4	PASS
BLE_2M	Ant1	2440	0~Reference	-0.66	-0.66	---	PASS
BLE_2M	Ant1	2440	30~1000	-0.66	-59.66	≤-20.66	PASS
BLE_2M	Ant1	2440	1000~26500	-0.66	-46.18	≤-20.66	PASS
BLE_2M	Ant1	2478	0~Reference	0.10	0.10	---	PASS
BLE_2M	Ant1	2478	30~1000	0.10	-59.82	≤-19.9	PASS
BLE_2M	Ant1	2478	1000~26500	0.10	-46.28	≤-19.9	PASS

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

Test Graphs



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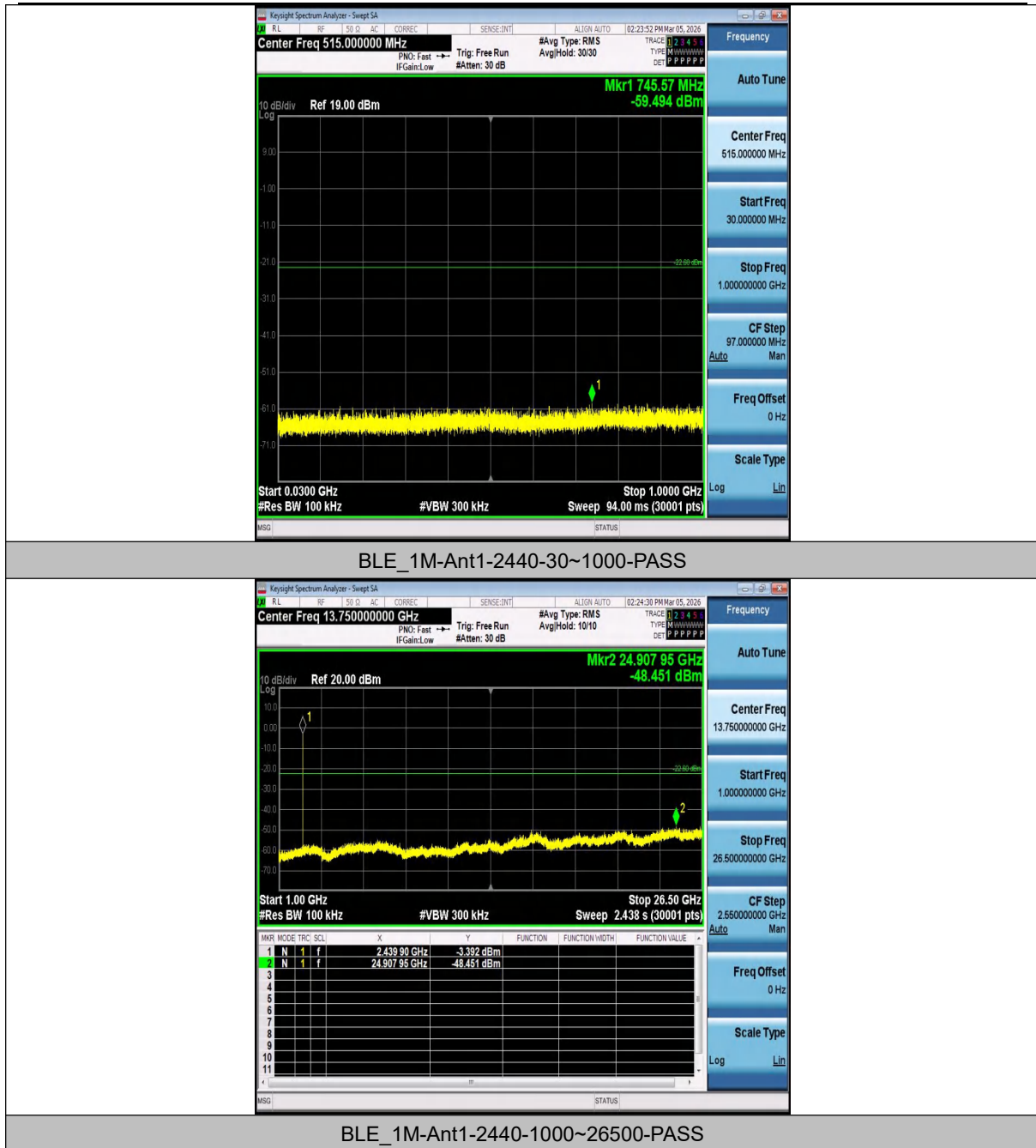
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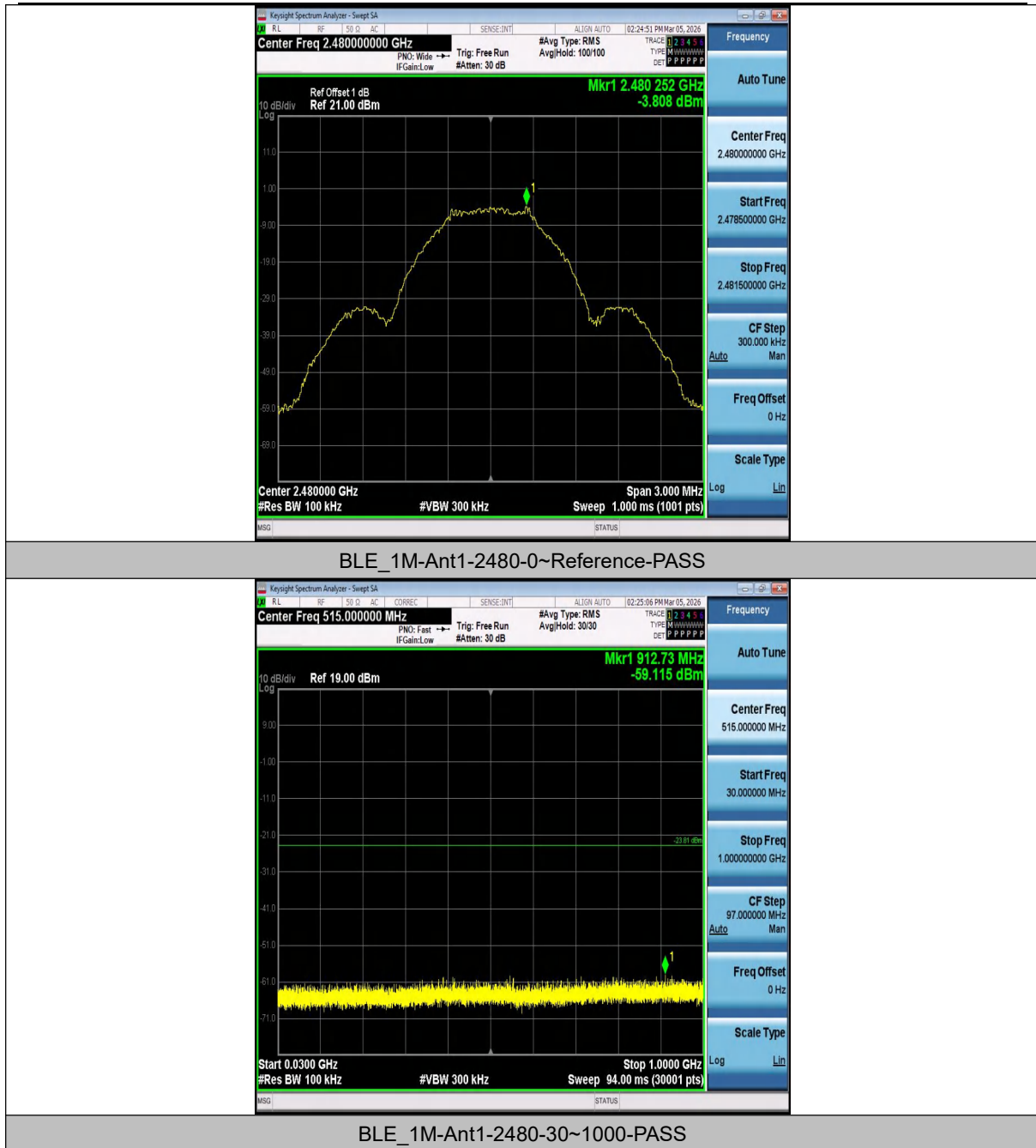
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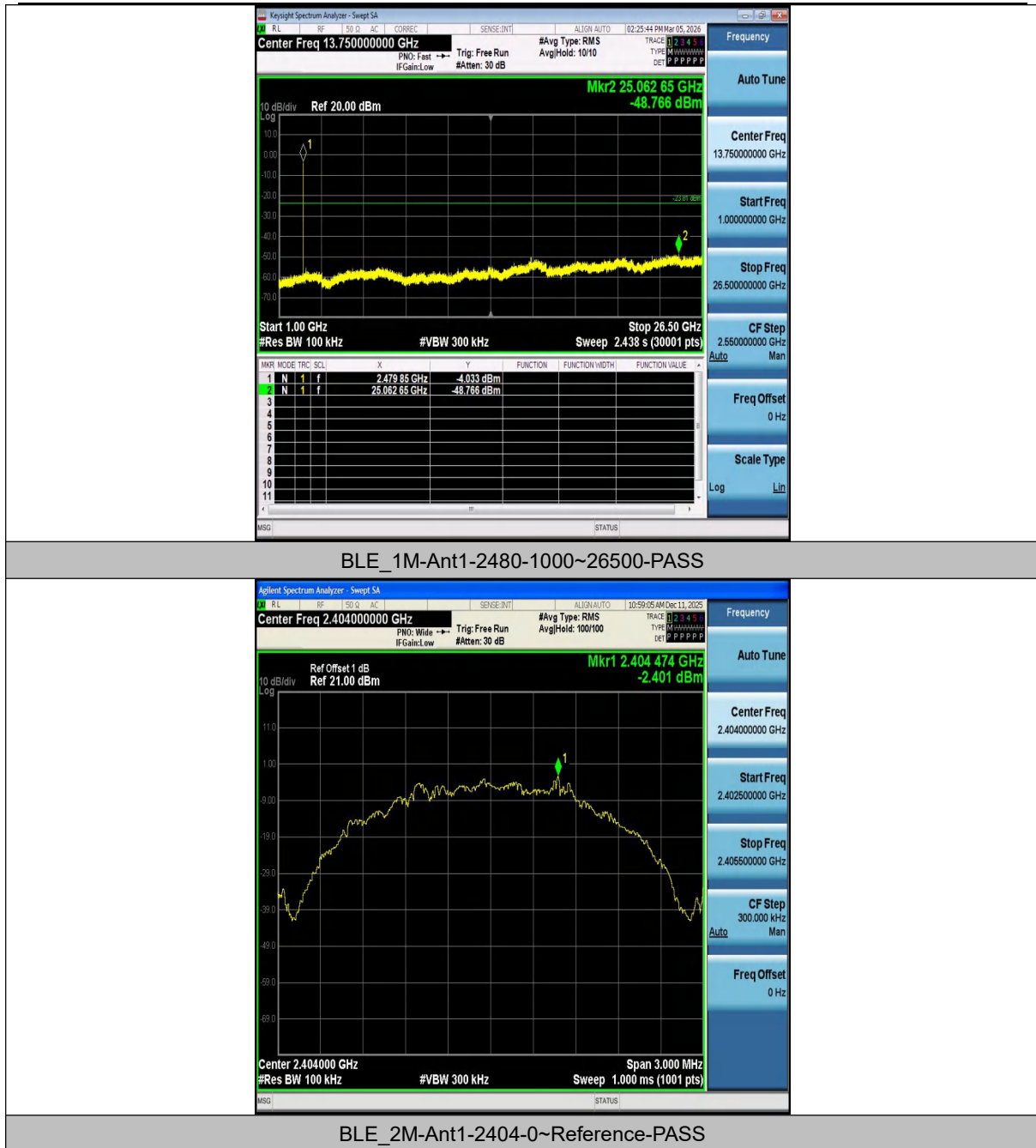
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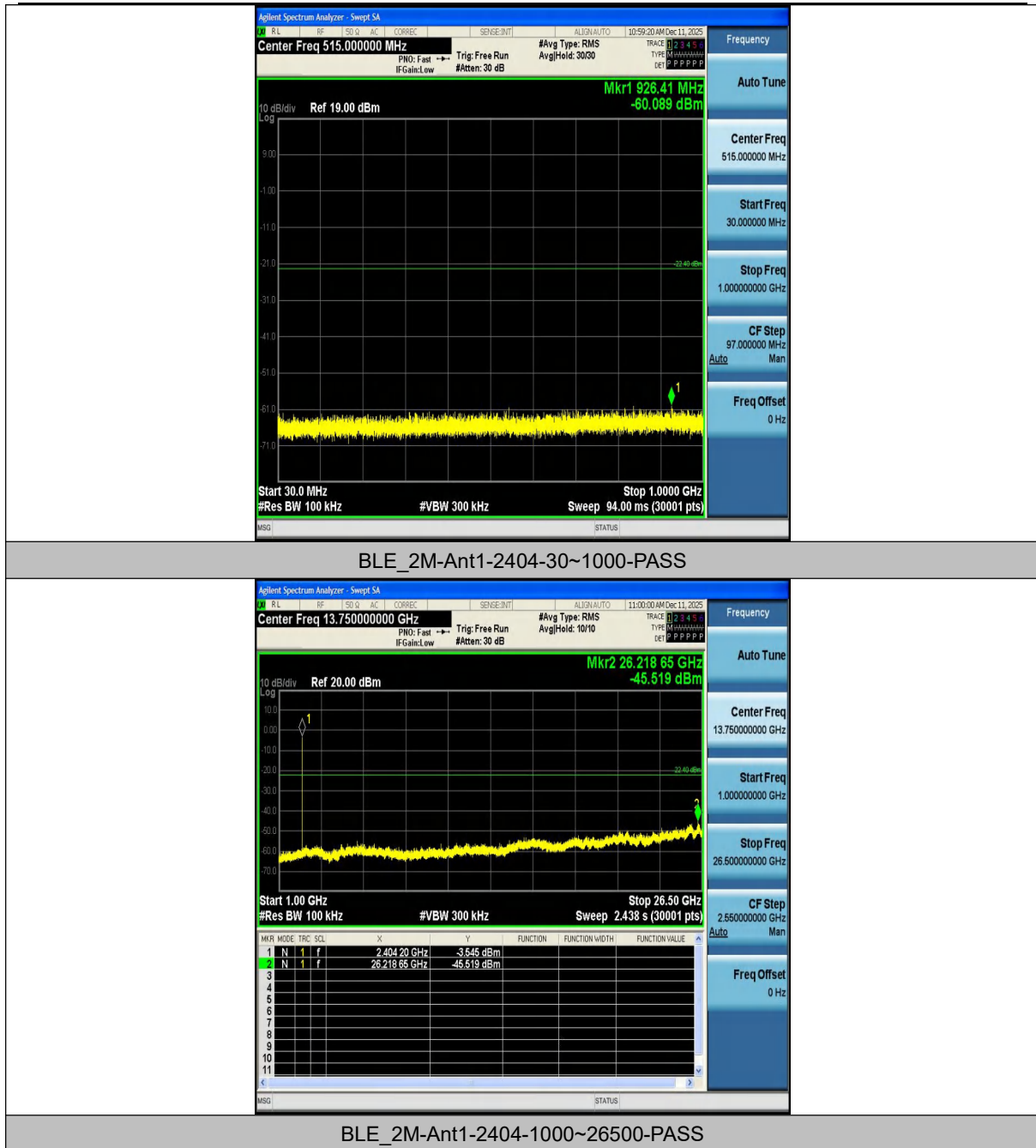
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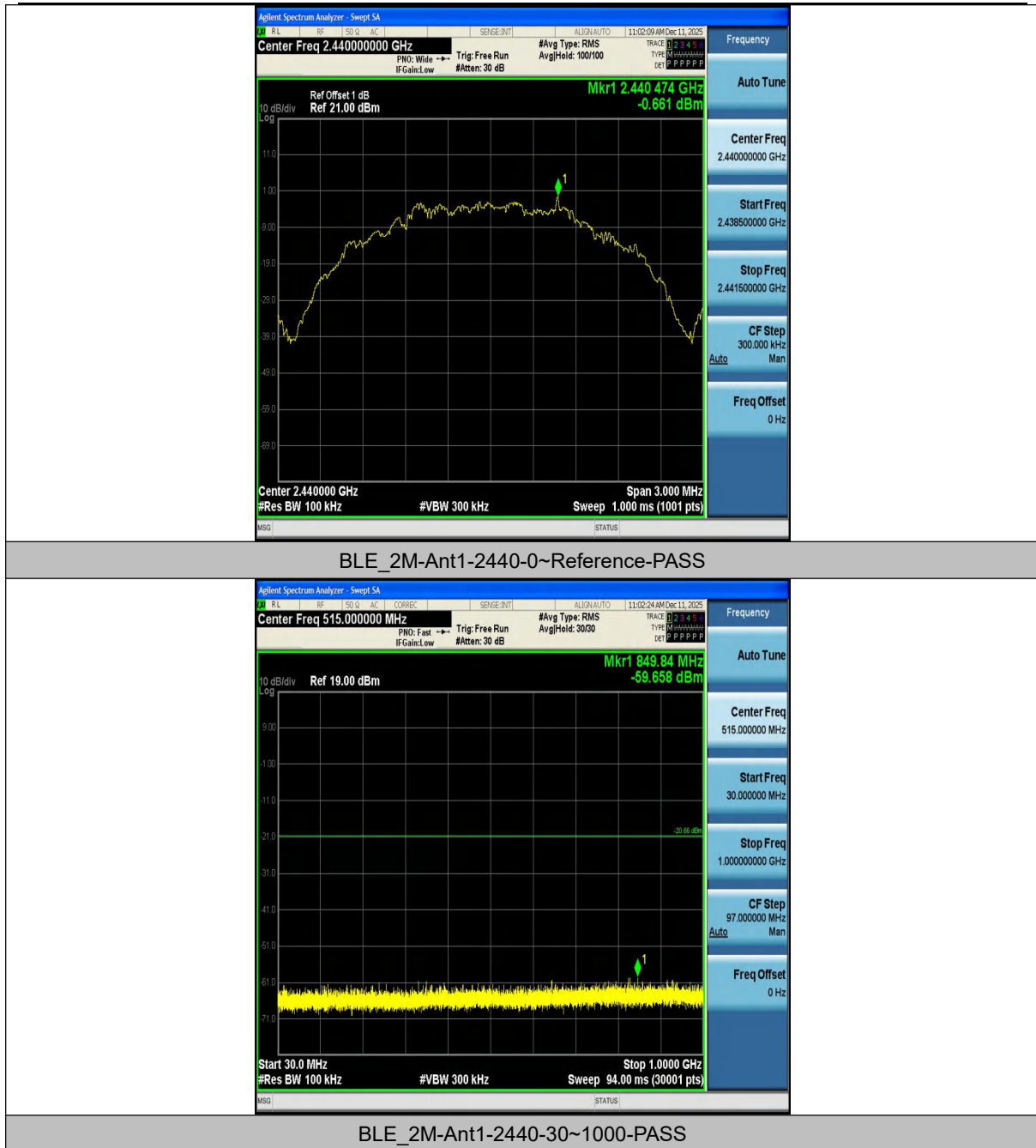
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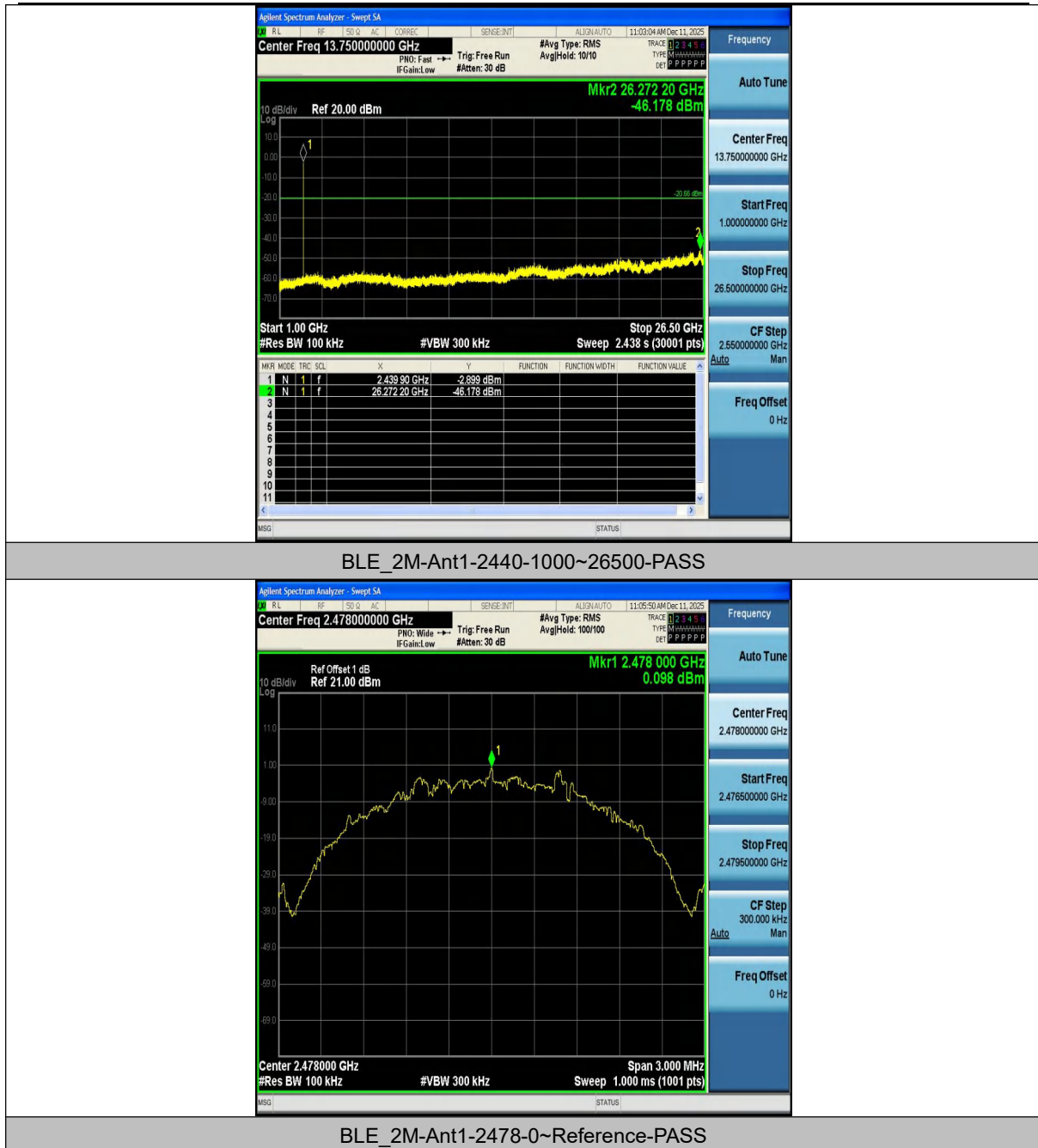
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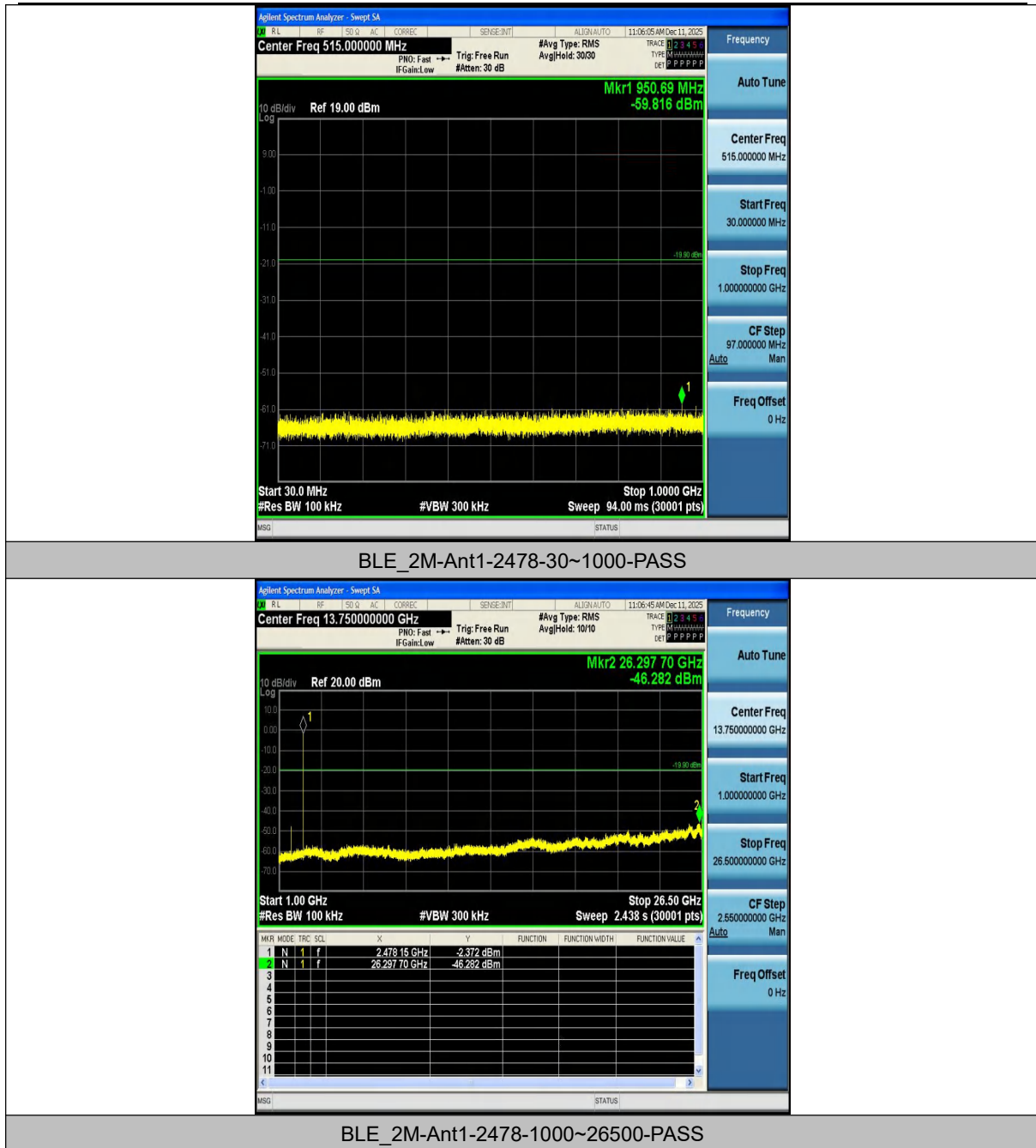
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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	2.50	85.20	0.70
BLE_1M	Ant1	2440	2.11	2.49	84.74	0.72
BLE_1M	Ant1	2480	2.13	2.51	84.86	0.71
BLE_2M	Ant1	2404	1.08	1.88	57.45	2.41
BLE_2M	Ant1	2440	1.06	1.87	56.68	2.47
BLE_2M	Ant1	2478	1.08	1.87	57.75	2.38

Test Graphs



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