

Appendix Test Data

Report No.:	1811C50004412501	Test Sample No.:	1-2-2
Start Test Date:	2025.01.17	Finish Test Date:	2025.06.09
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.3°C	Relative Humidity:	49%
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	0.632	2401.692	2402.324	0.5	PASS
BLE_1M	Ant1	2440	0.632	2439.684	2440.316	0.5	PASS
BLE_1M	Ant1	2480	0.636	2479.684	2480.320	0.5	PASS
BLE_2M	Ant1	2402	1.144	2401.436	2402.580	0.5	PASS
BLE_2M	Ant1	2440	1.104	2439.468	2440.572	0.5	PASS
BLE_2M	Ant1	2480	1.072	2479.472	2480.544	0.5	PASS



Test Graphs



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Appendix B: 99% Occupied Bandwidth

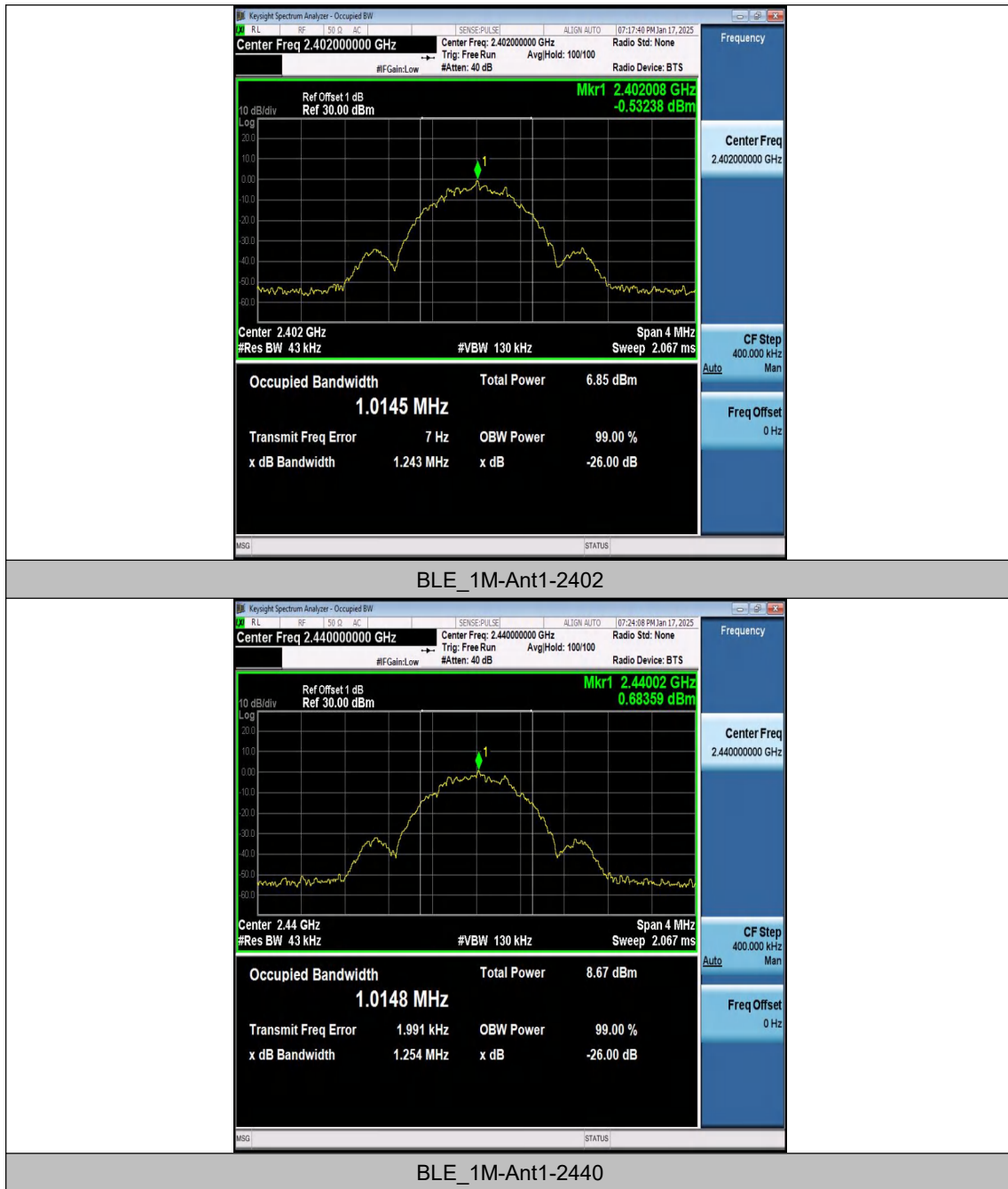
Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0145	2401.4928	2402.5073	---	---
BLE_1M	Ant1	2440	1.0148	2439.4946	2440.5094	---	---
BLE_1M	Ant1	2480	1.0270	2479.4873	2480.5143	---	---
BLE_2M	Ant1	2402	2.0565	2400.9900	2403.0465	---	---
BLE_2M	Ant1	2440	2.0577	2438.9845	2441.0422	---	---
BLE_2M	Ant1	2480	2.0457	2478.9946	2481.0403	---	---

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Test Graphs



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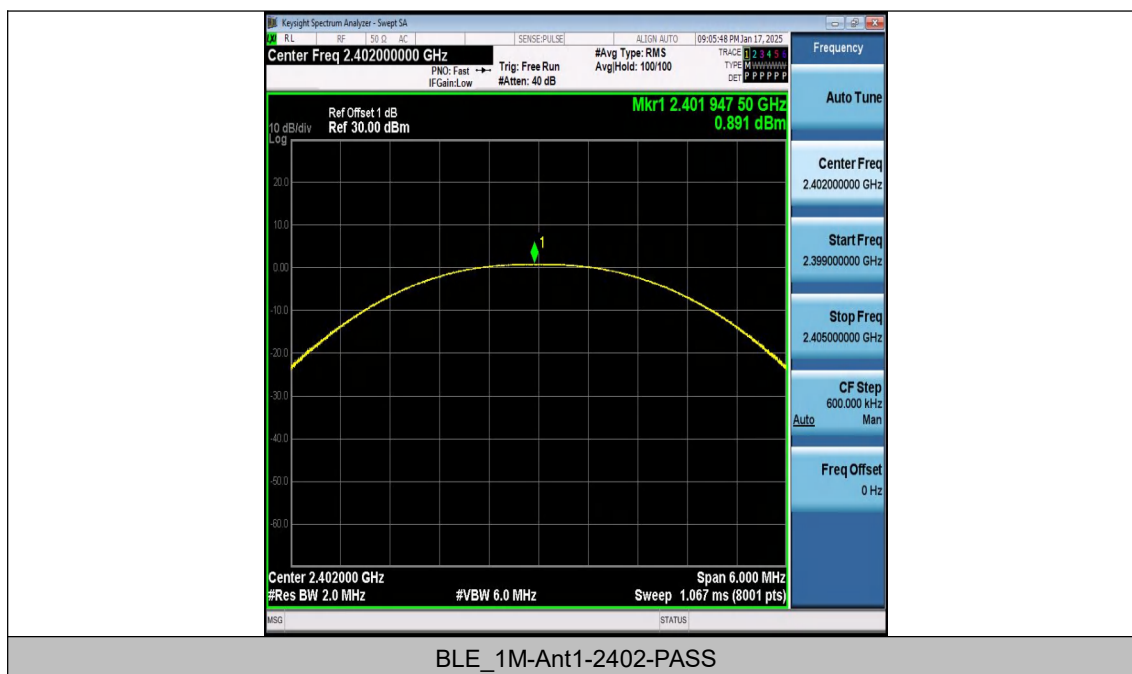
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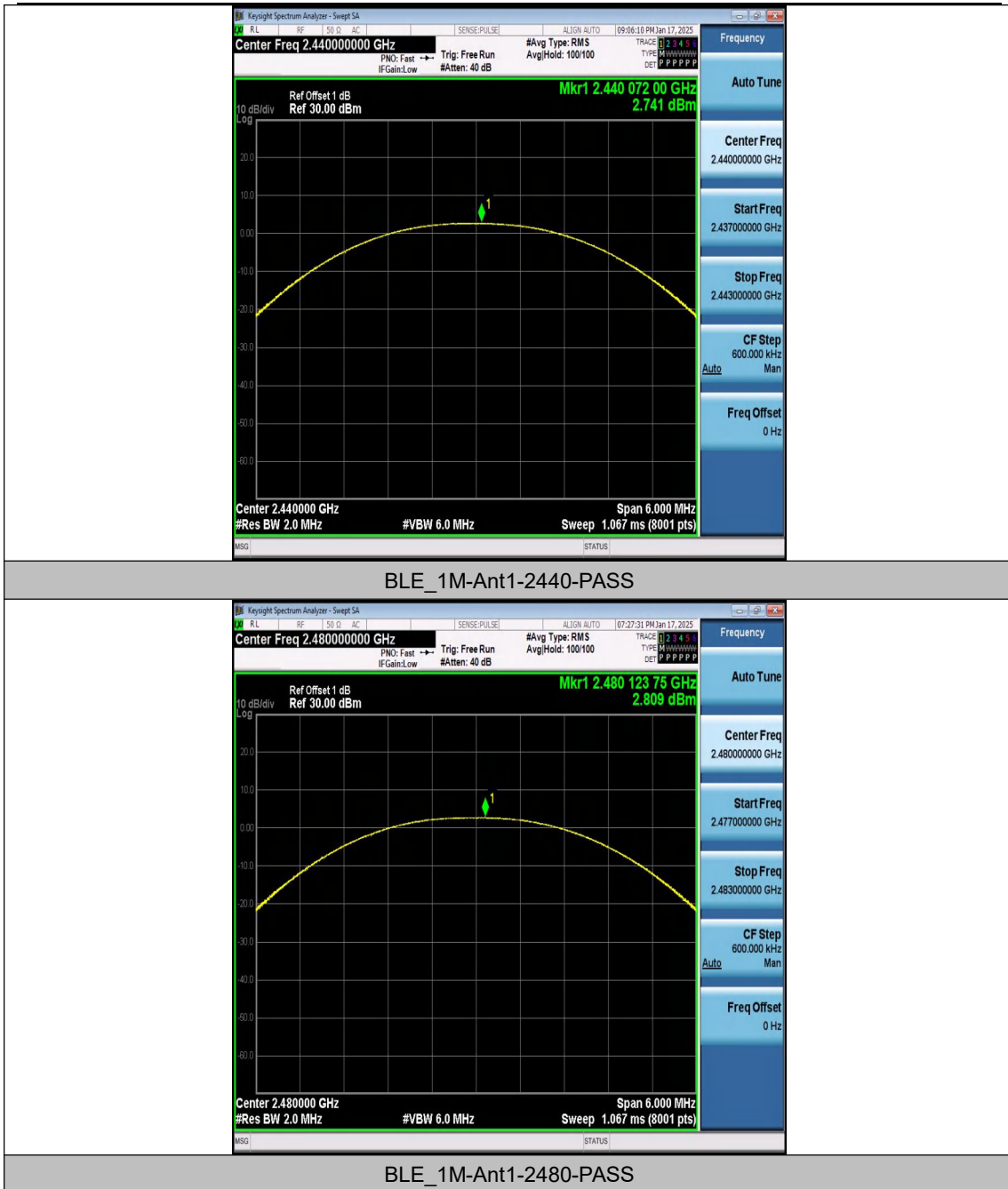
Appendix C: Maximum output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.89	≤30	PASS
BLE_1M	Ant1	2440	2.74	≤30	PASS
BLE_1M	Ant1	2480	2.81	≤30	PASS
BLE_2M	Ant1	2402	1.08	≤30	PASS
BLE_2M	Ant1	2440	2.88	≤30	PASS
BLE_2M	Ant1	2480	3.07	≤30	PASS

Test Graphs Peak



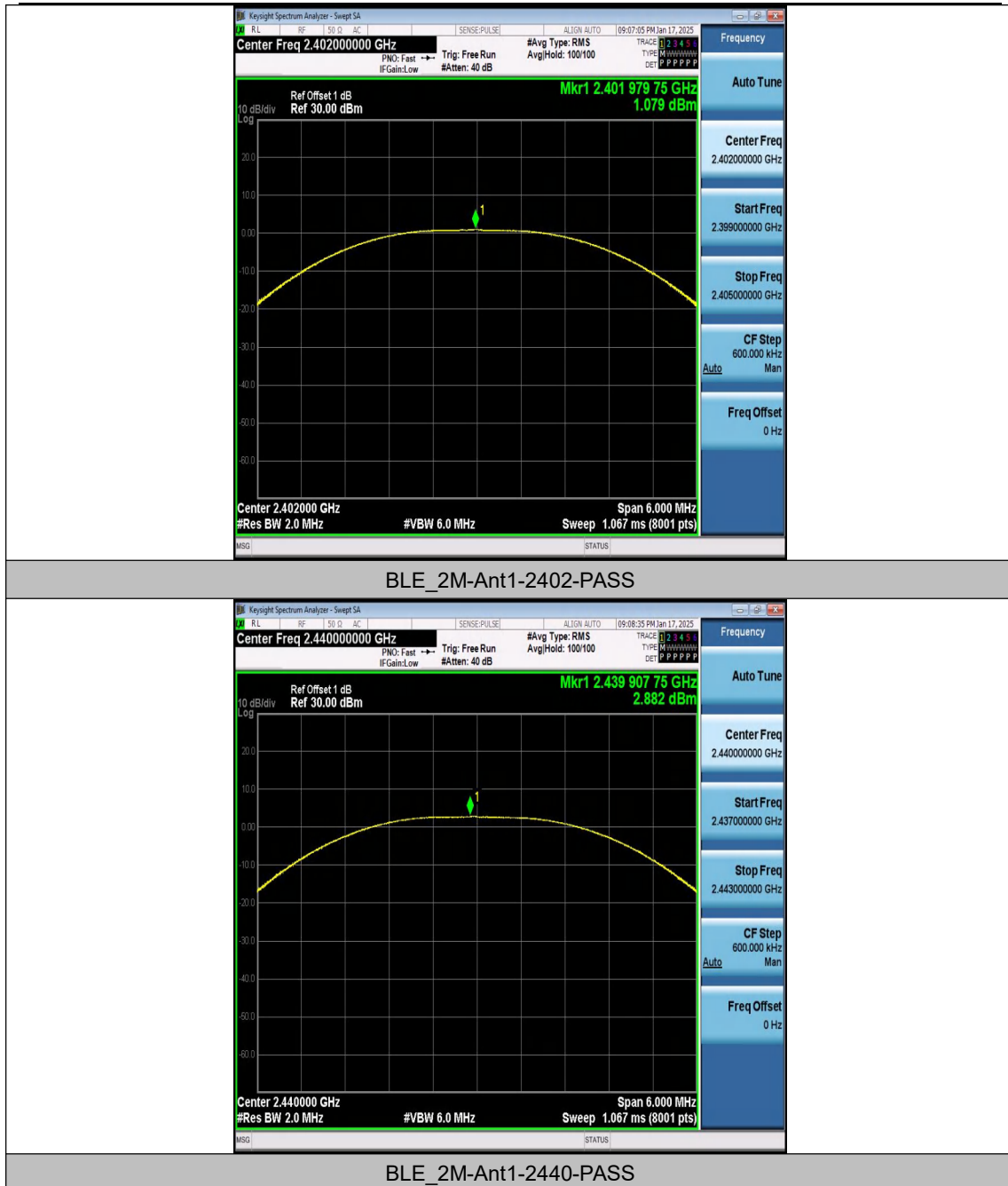


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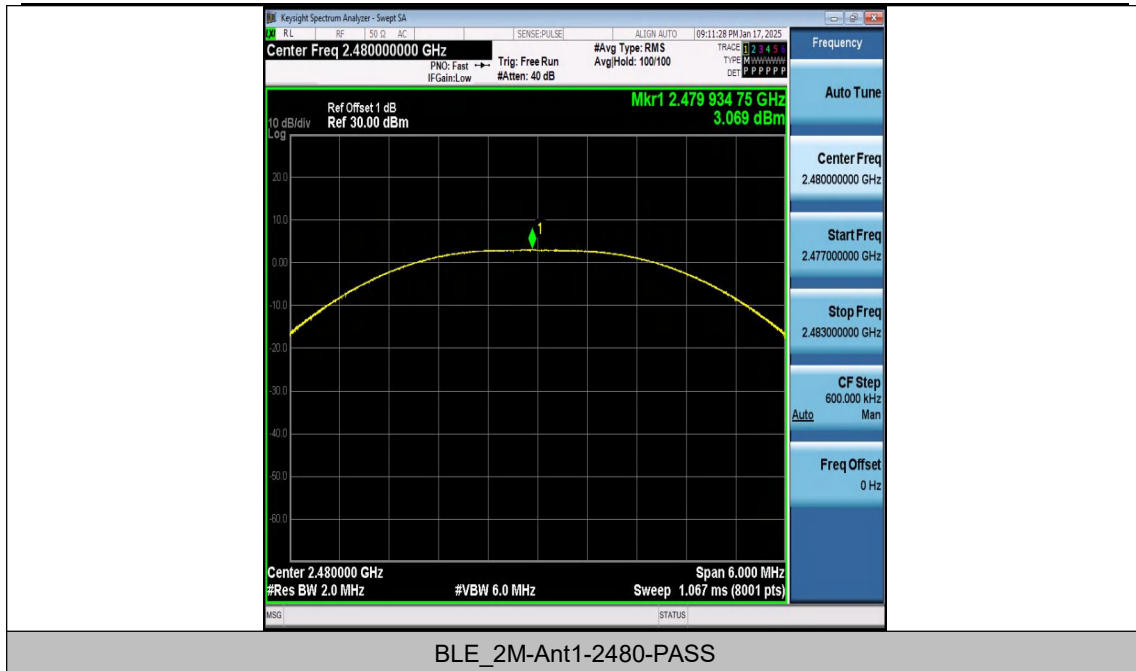
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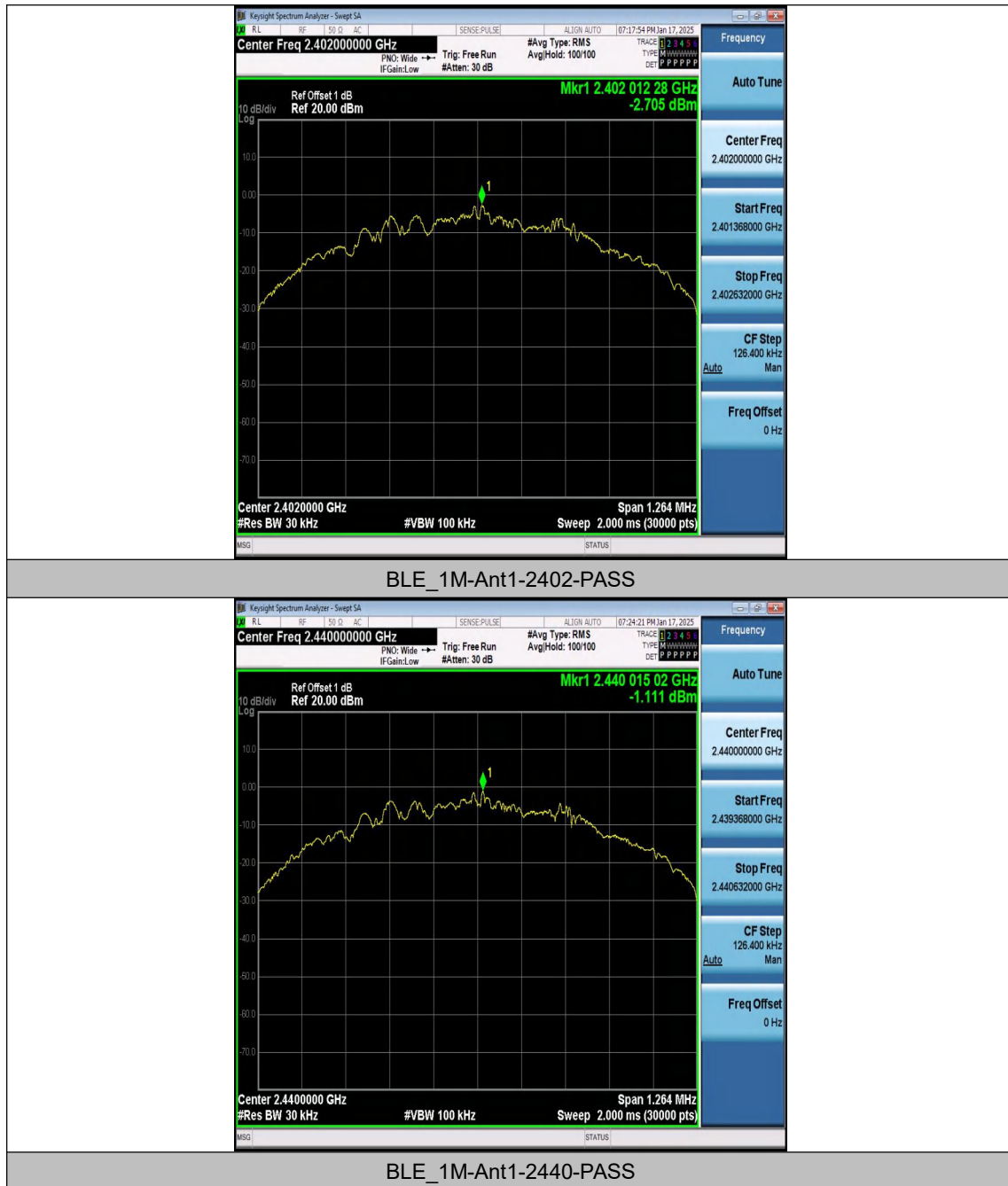
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-2.71	-12.71	≤8.00	PASS
BLE_1M	Ant1	2440	-1.11	-11.11	≤8.00	PASS
BLE_1M	Ant1	2480	0.13	-9.87	≤8.00	PASS
BLE_2M	Ant1	2402	-1.99	-11.99	≤8.00	PASS
BLE_2M	Ant1	2440	-0.35	-10.35	≤8.00	PASS
BLE_2M	Ant1	2480	0.17	-9.83	≤8.00	PASS

Note: $\text{PSD(dBm/3kHz)} = \text{PSD(dBm/30kHz)} - (10 \cdot \log(30/3))$.

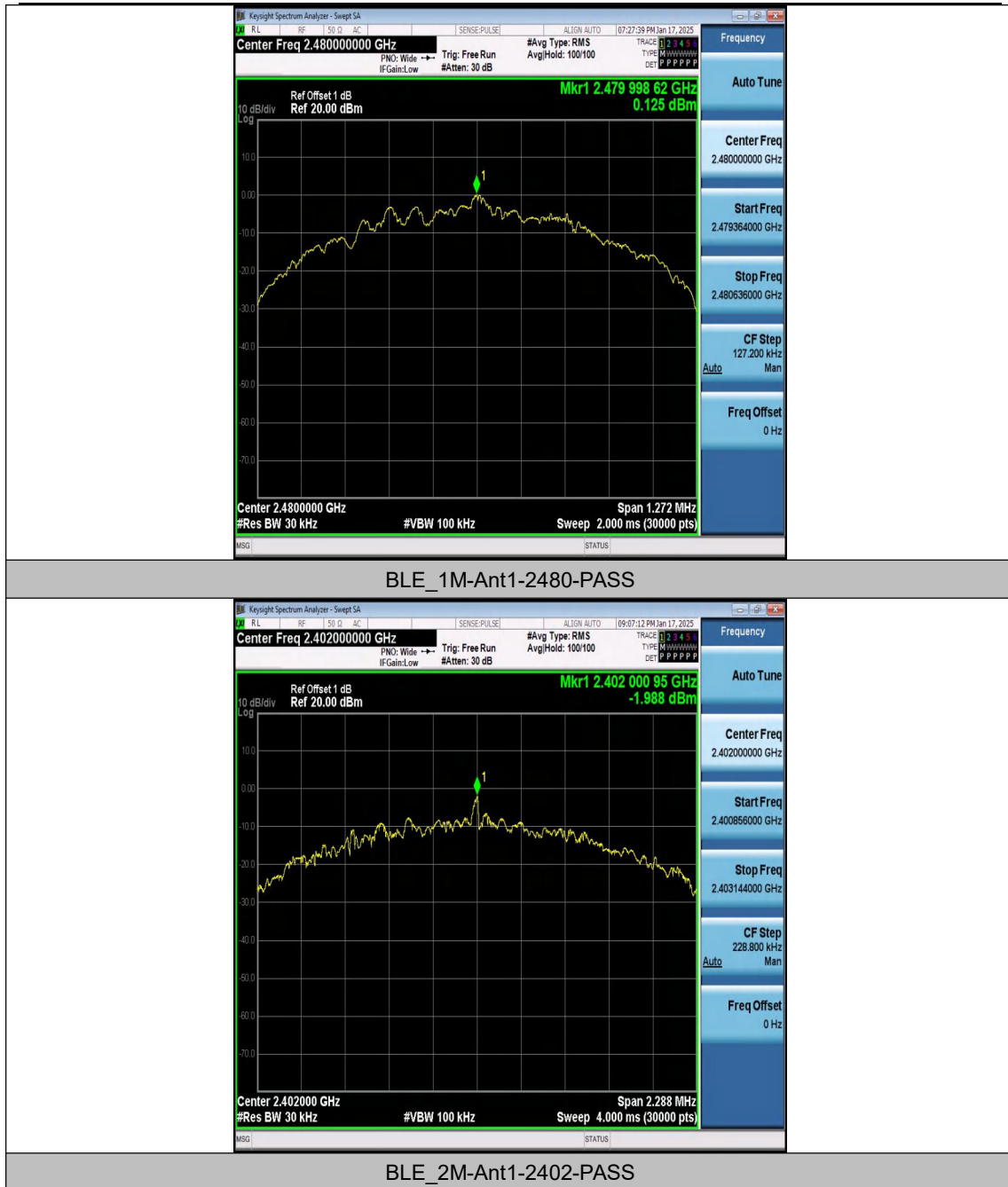
Test Graphs



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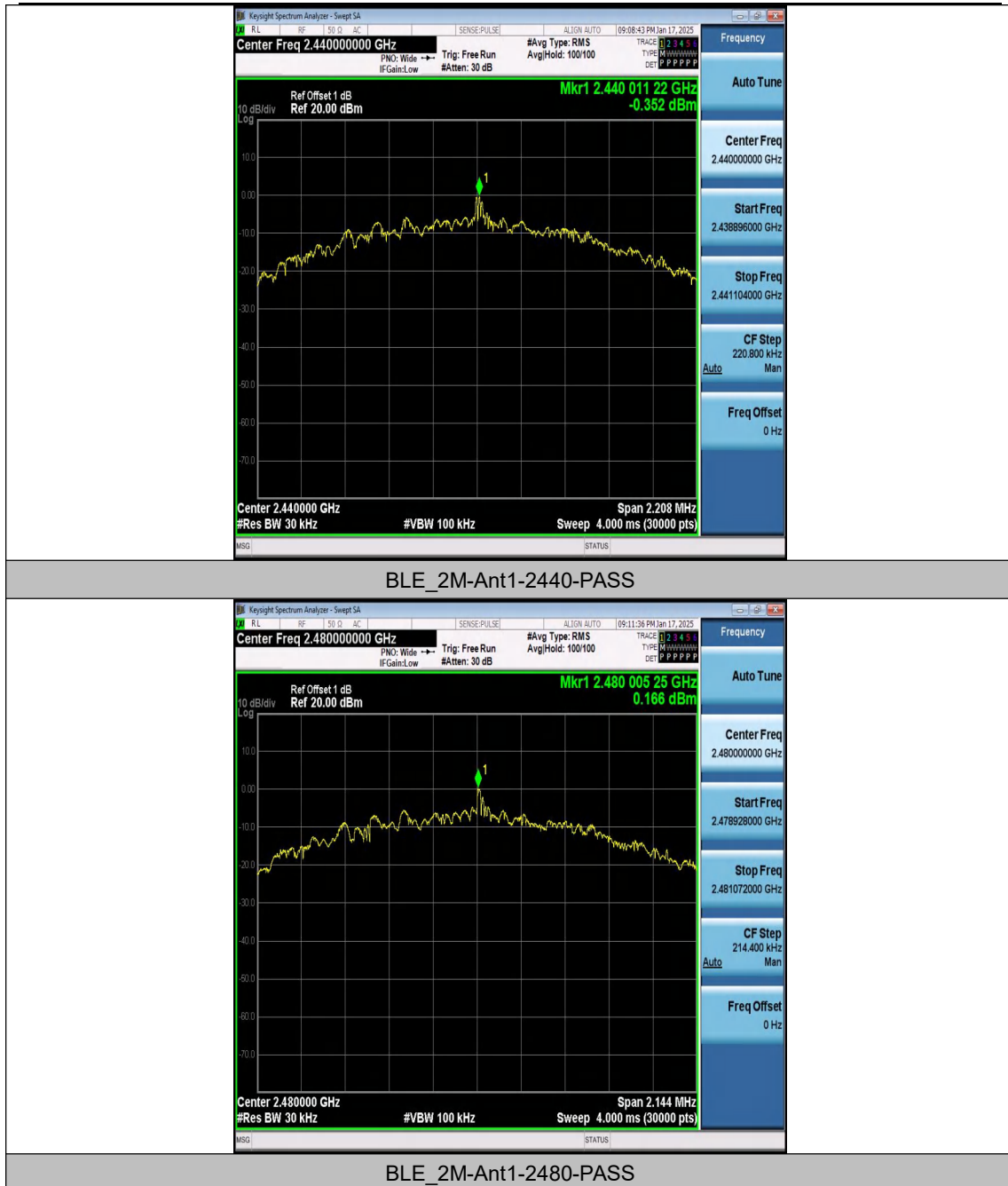


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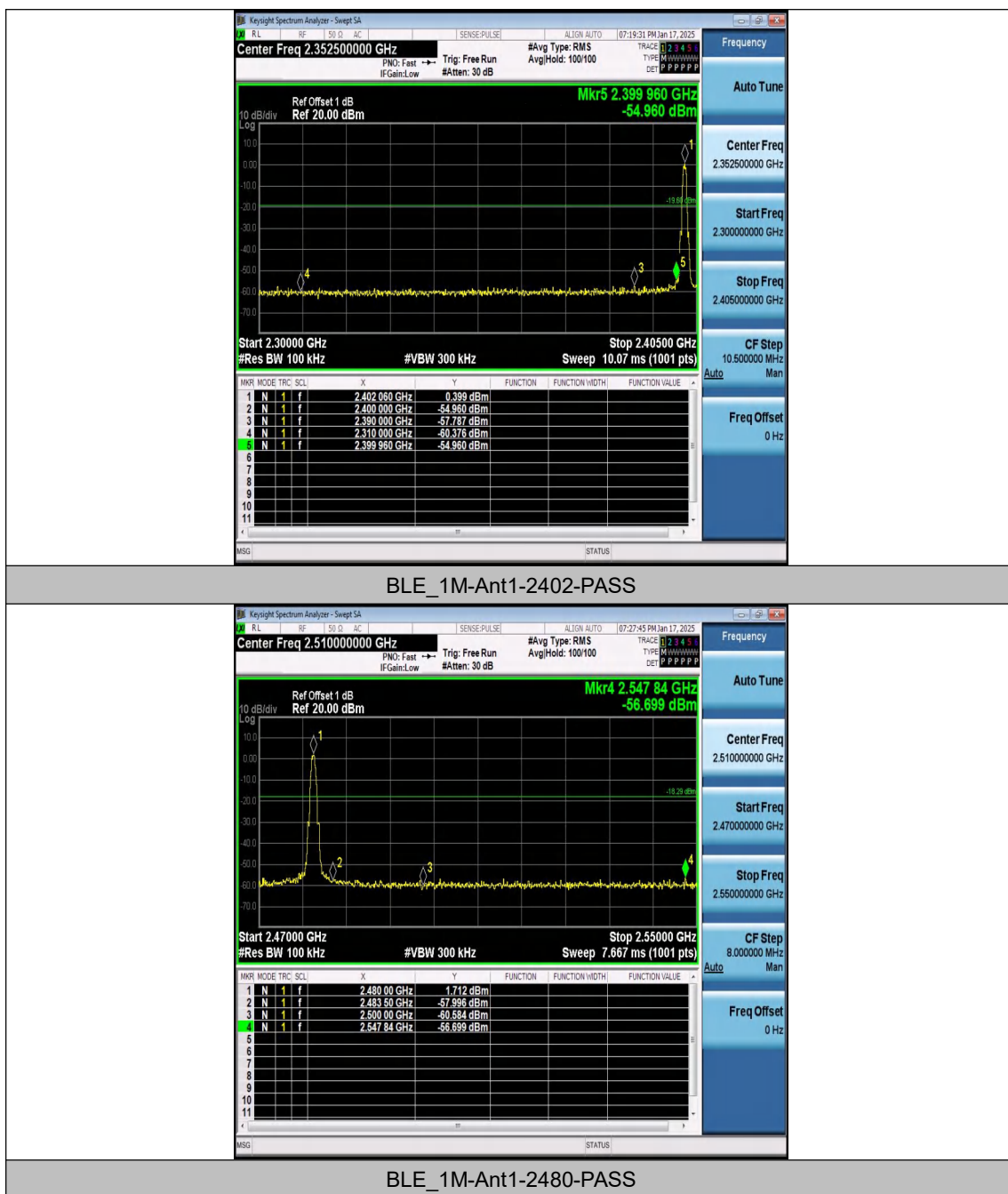
Appendix E: Band edge measurements

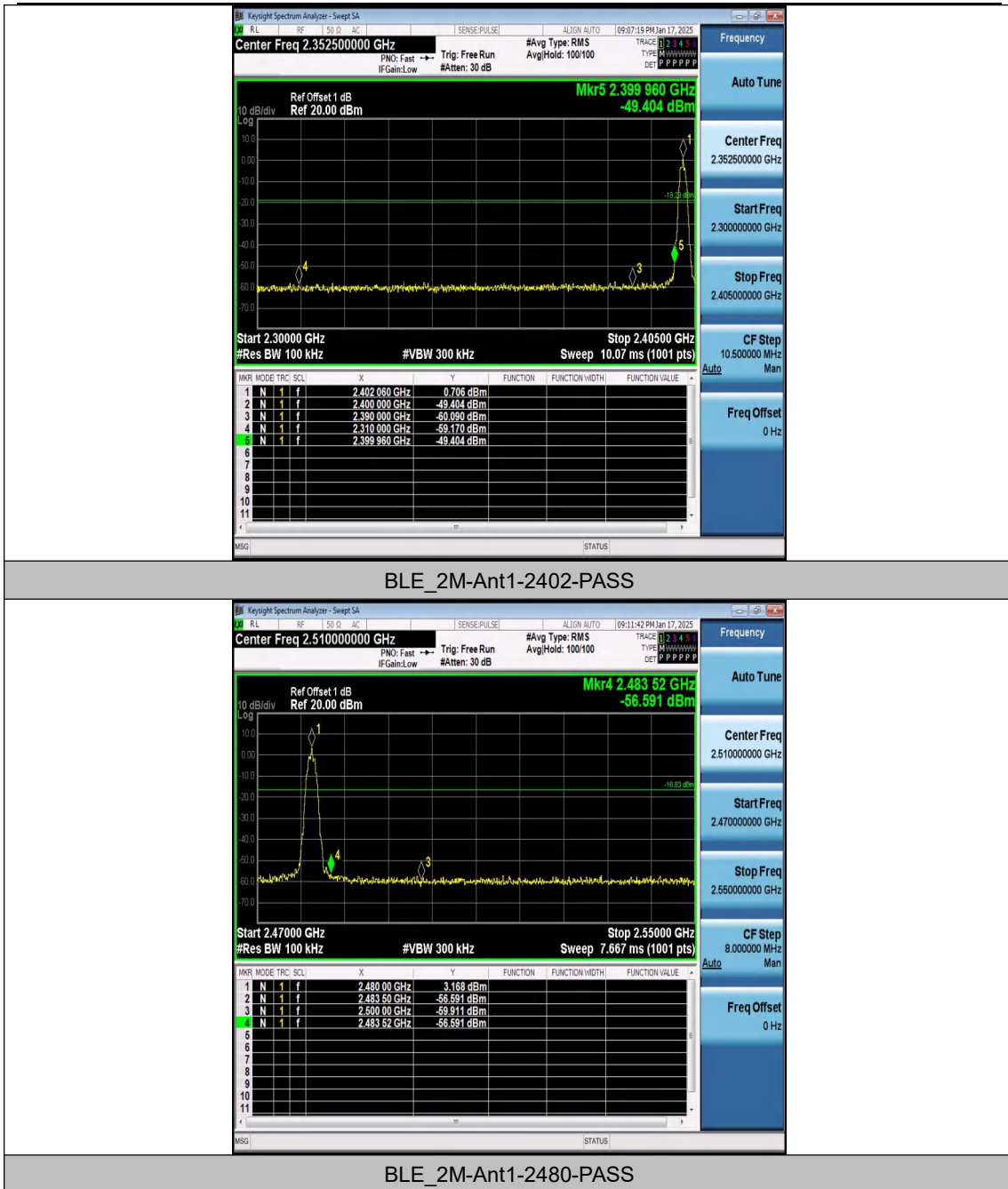
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.40	-54.96	≤-19.6	PASS
BLE_1M	Ant1	High	2480	1.71	-56.7	≤-18.29	PASS
BLE_2M	Ant1	Low	2402	0.71	-49.4	≤-19.29	PASS
BLE_2M	Ant1	High	2480	3.17	-56.59	≤-16.83	PASS



Test Graphs





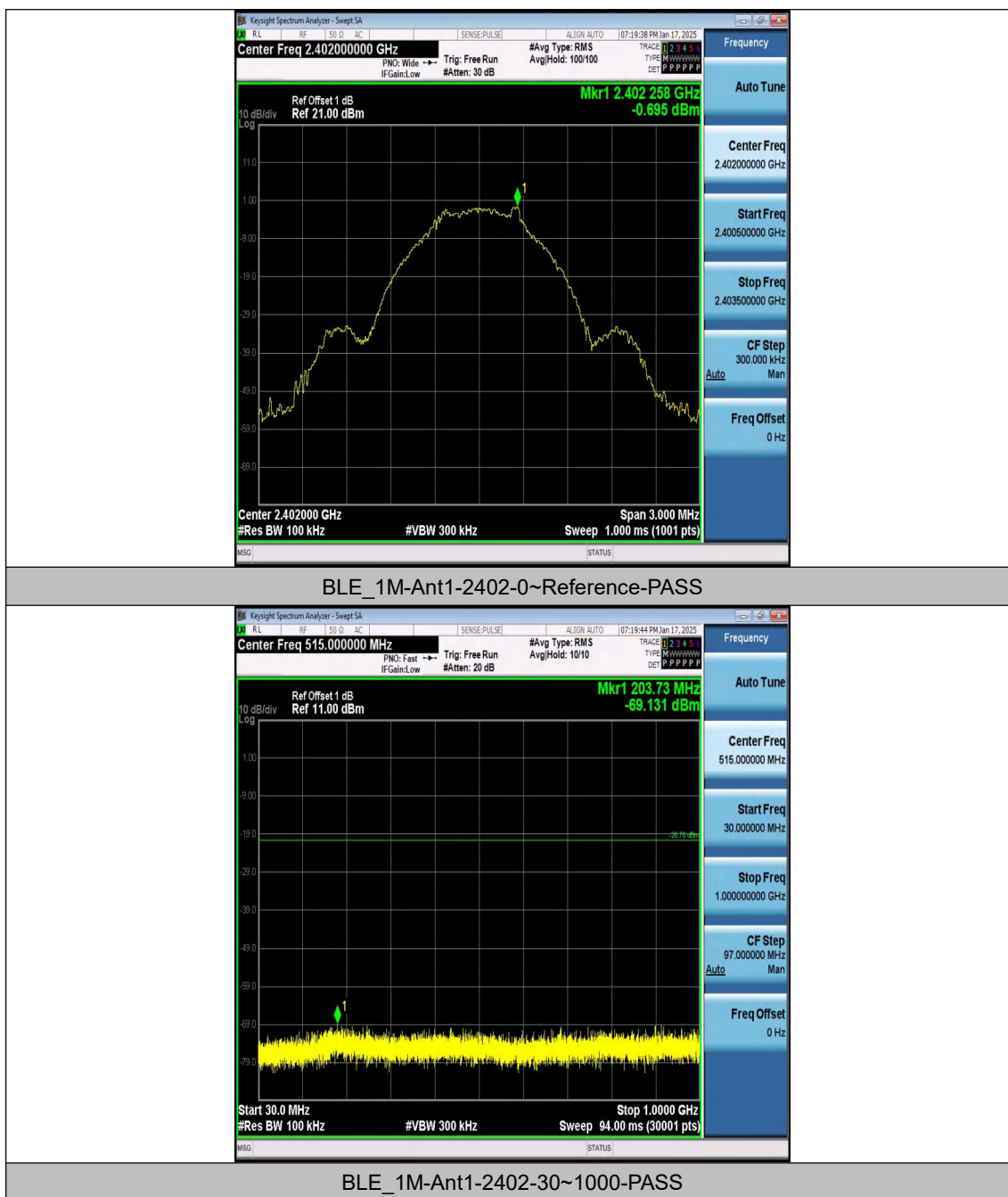
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.70	-0.70	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.70	-69.13	≤-20.7	PASS
BLE_1M	Ant1	2402	1000~26500	-0.70	-53.93	≤-20.7	PASS
BLE_1M	Ant1	2440	0~Reference	2.06	2.06	---	PASS
BLE_1M	Ant1	2440	30~1000	2.06	-68.22	≤-17.94	PASS
BLE_1M	Ant1	2440	1000~26500	2.06	-53.86	≤-17.94	PASS
BLE_1M	Ant1	2480	0~Reference	1.34	1.34	---	PASS
BLE_1M	Ant1	2480	30~1000	1.34	-68.61	≤-18.66	PASS
BLE_1M	Ant1	2480	1000~26500	1.34	-53.89	≤-18.66	PASS
BLE_2M	Ant1	2402	0~Reference	0.13	0.13	---	PASS
BLE_2M	Ant1	2402	30~1000	0.13	-68.23	≤-19.87	PASS
BLE_2M	Ant1	2402	1000~26500	0.13	-53.6	≤-19.87	PASS
BLE_2M	Ant1	2440	0~Reference	2.78	2.78	---	PASS
BLE_2M	Ant1	2440	30~1000	2.78	-68.81	≤-17.22	PASS
BLE_2M	Ant1	2440	1000~26500	2.78	-53.58	≤-17.22	PASS
BLE_2M	Ant1	2480	0~Reference	2.87	2.87	---	PASS
BLE_2M	Ant1	2480	30~1000	2.87	-68.36	≤-17.13	PASS
BLE_2M	Ant1	2480	1000~26500	2.87	-53.42	≤-17.13	PASS



Test Graphs



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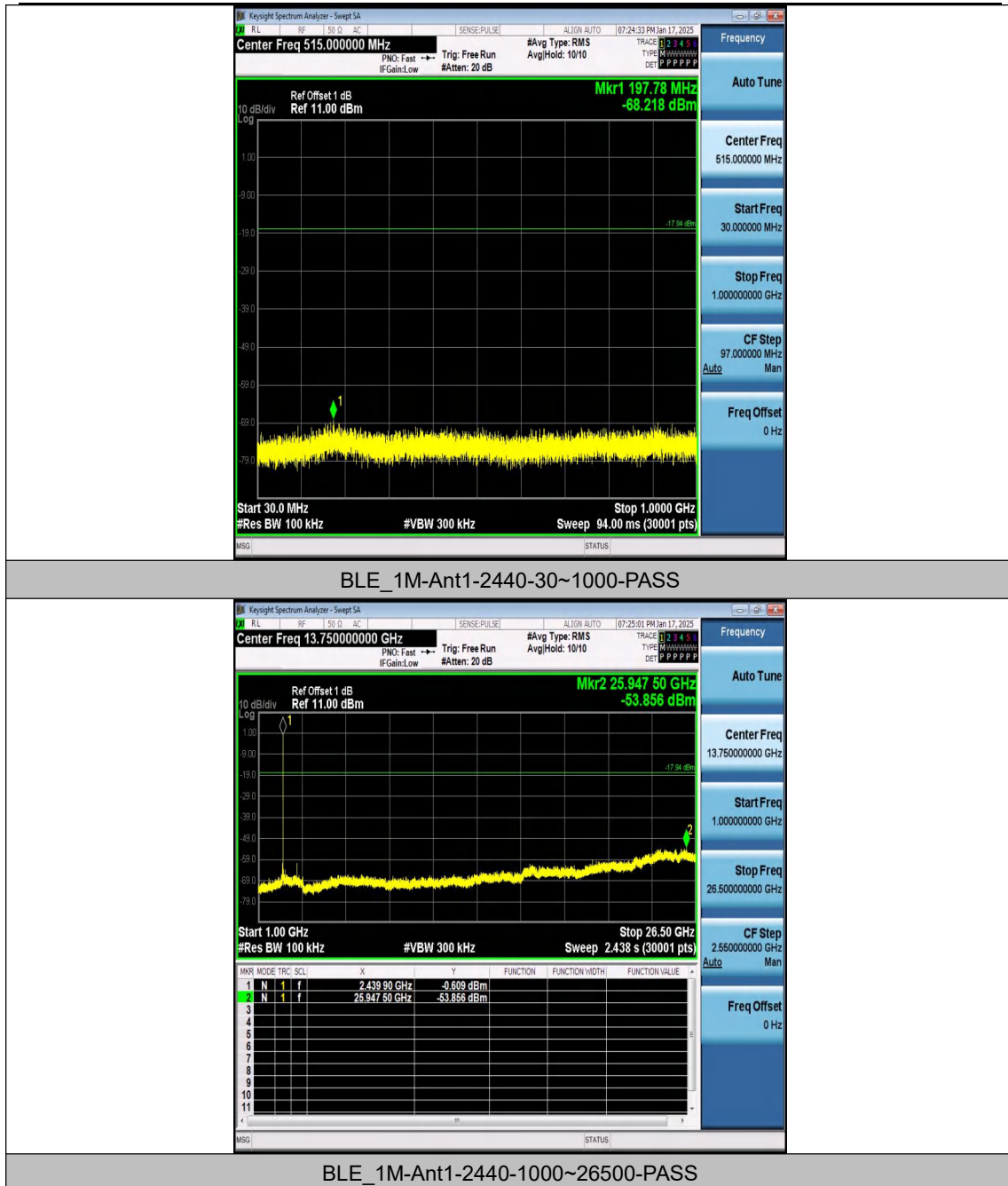
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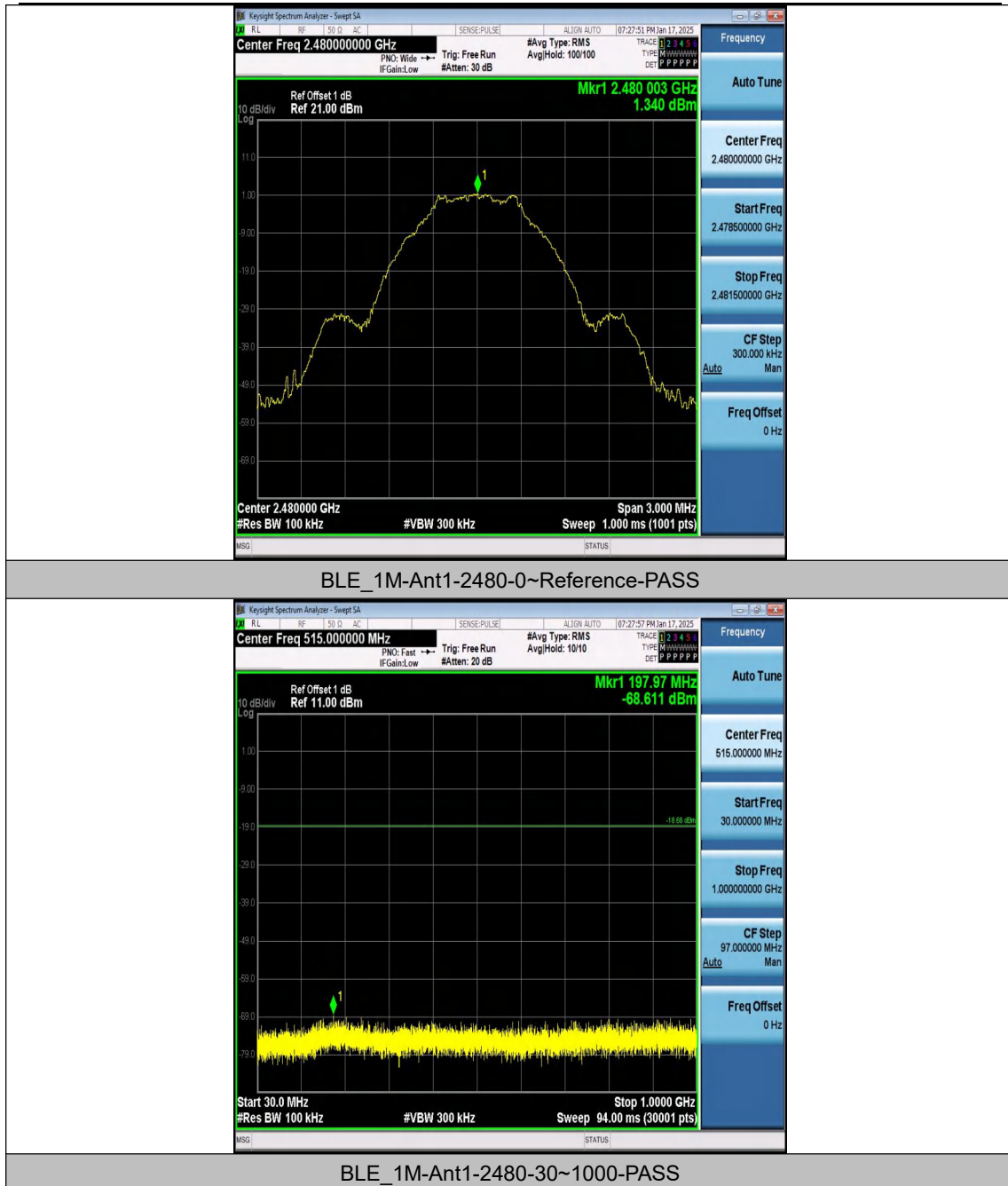


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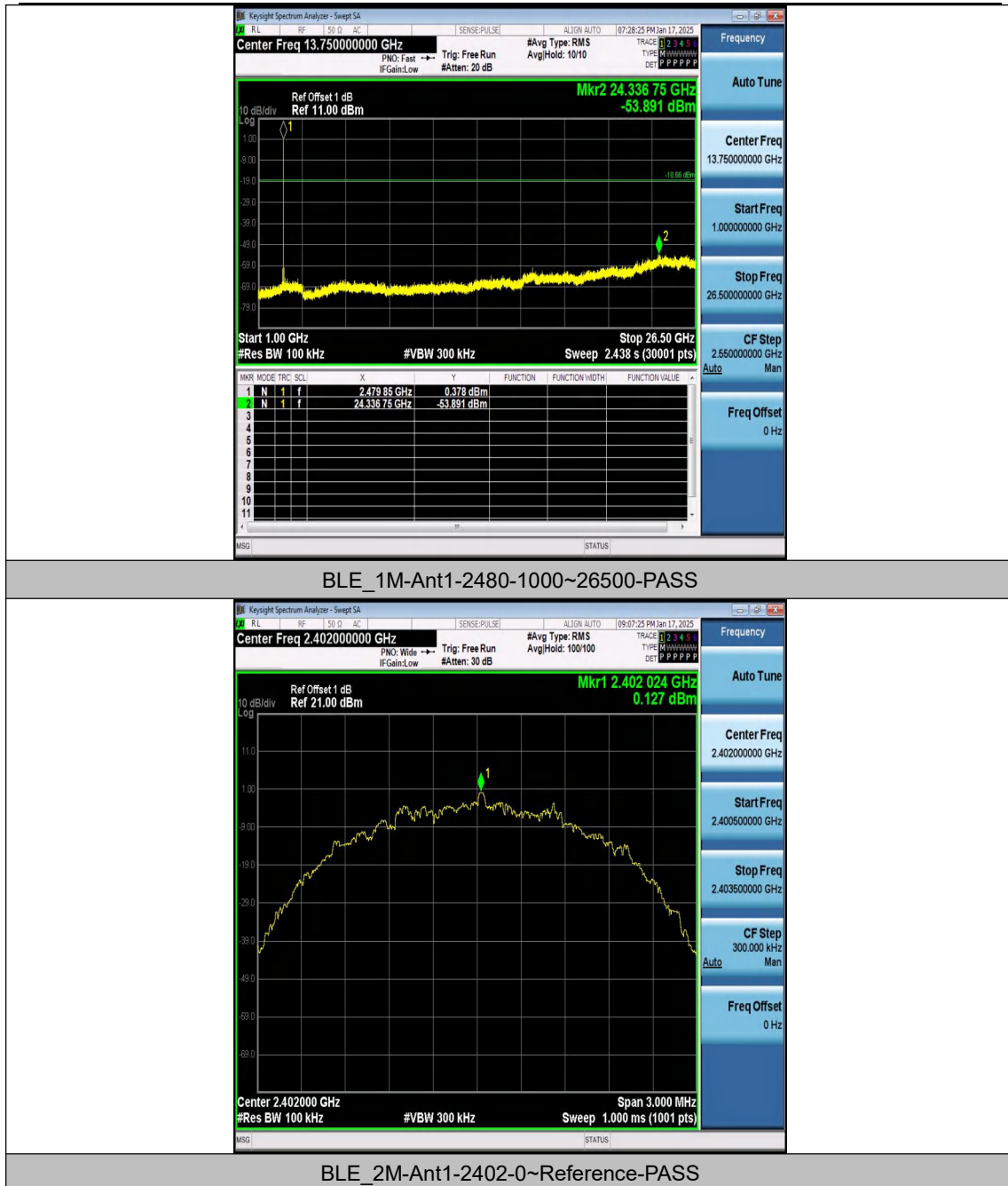




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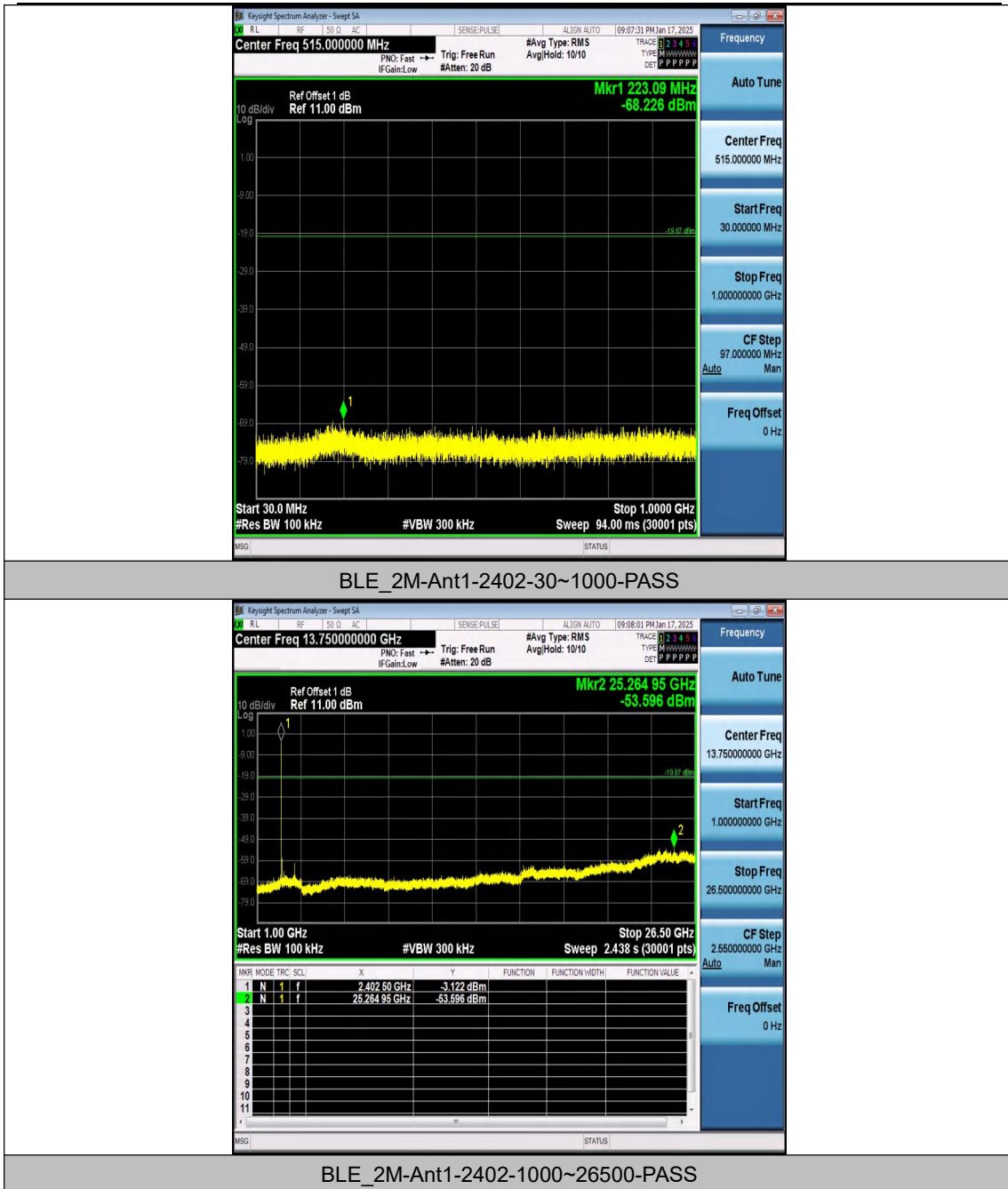
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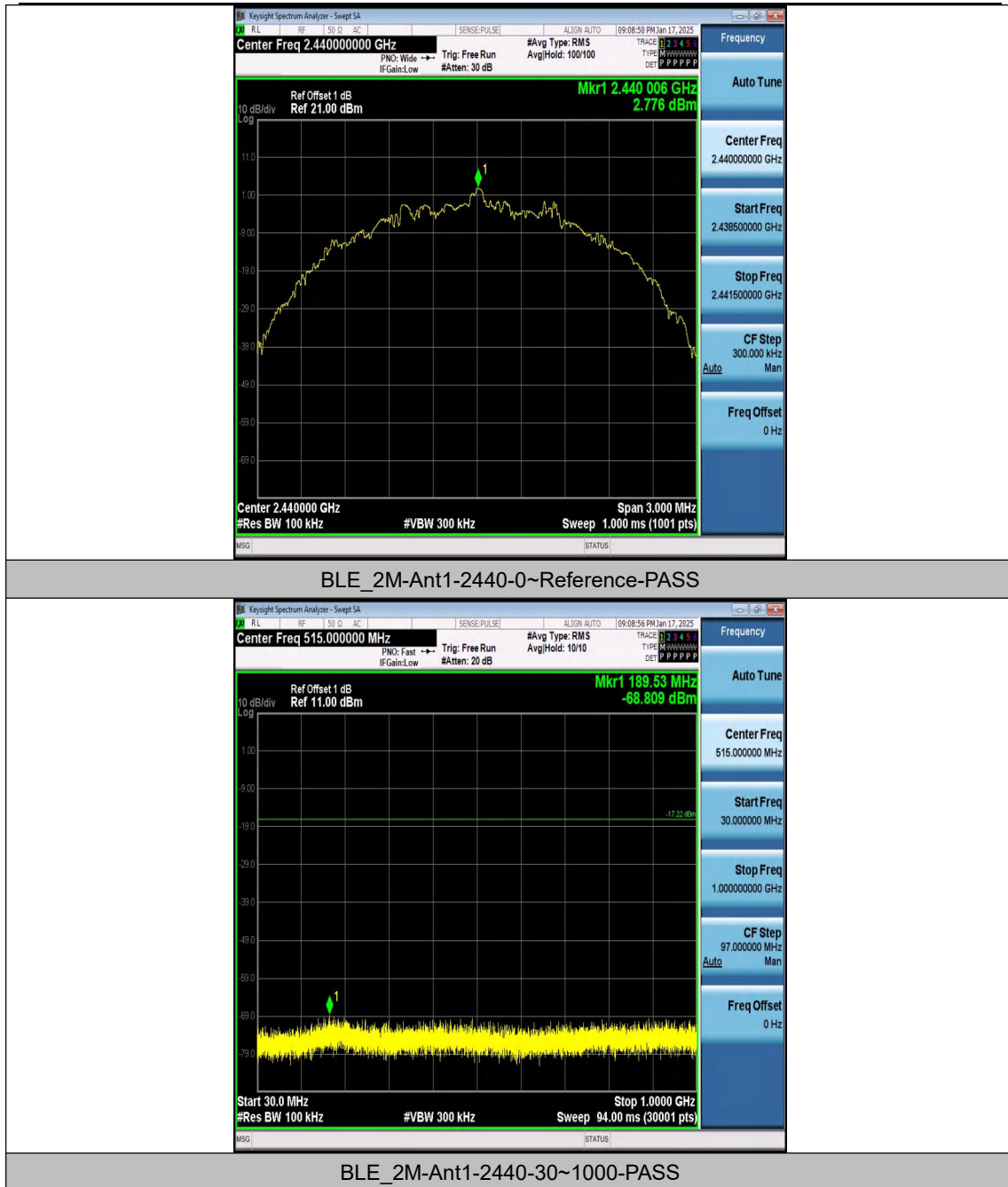


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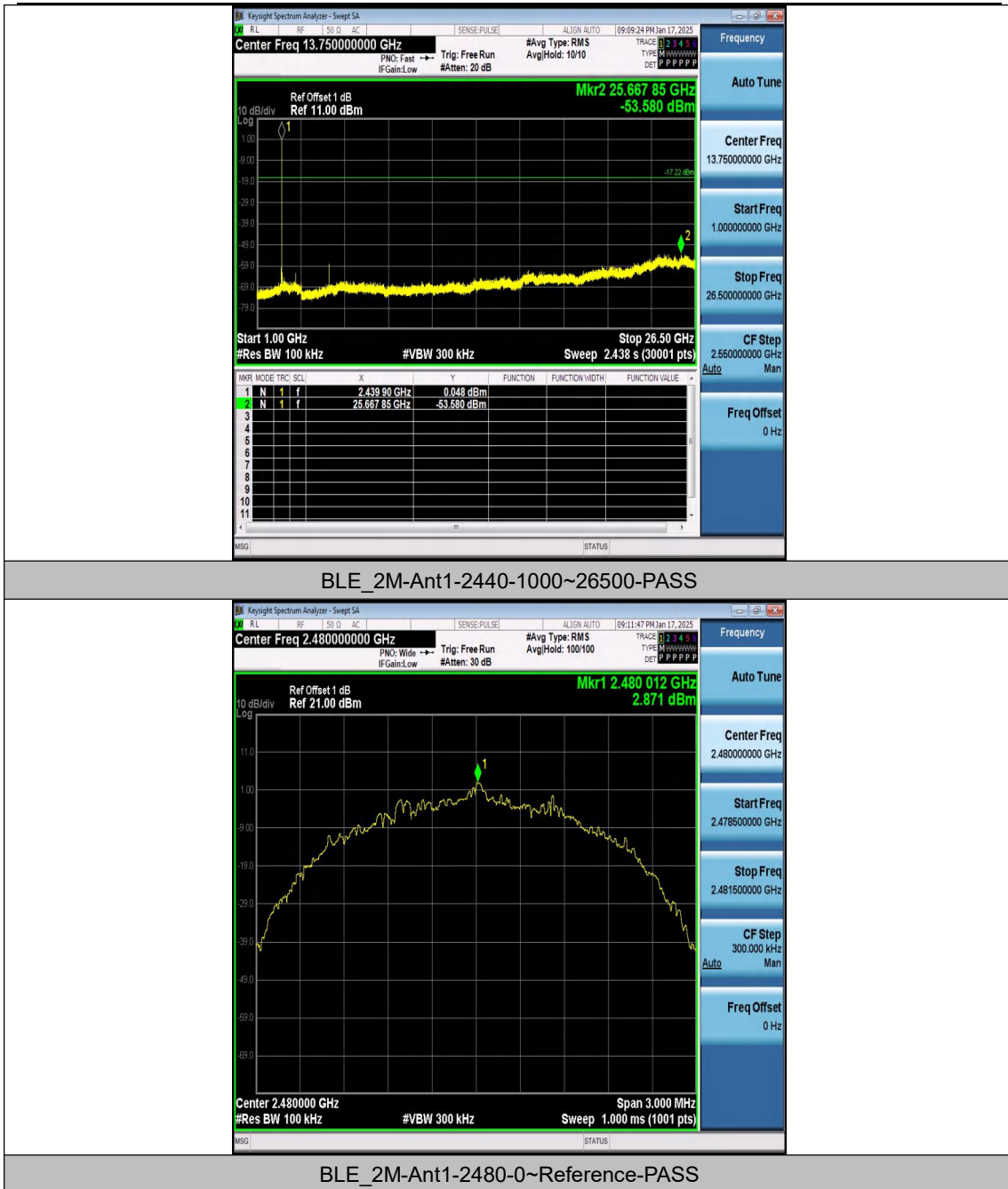


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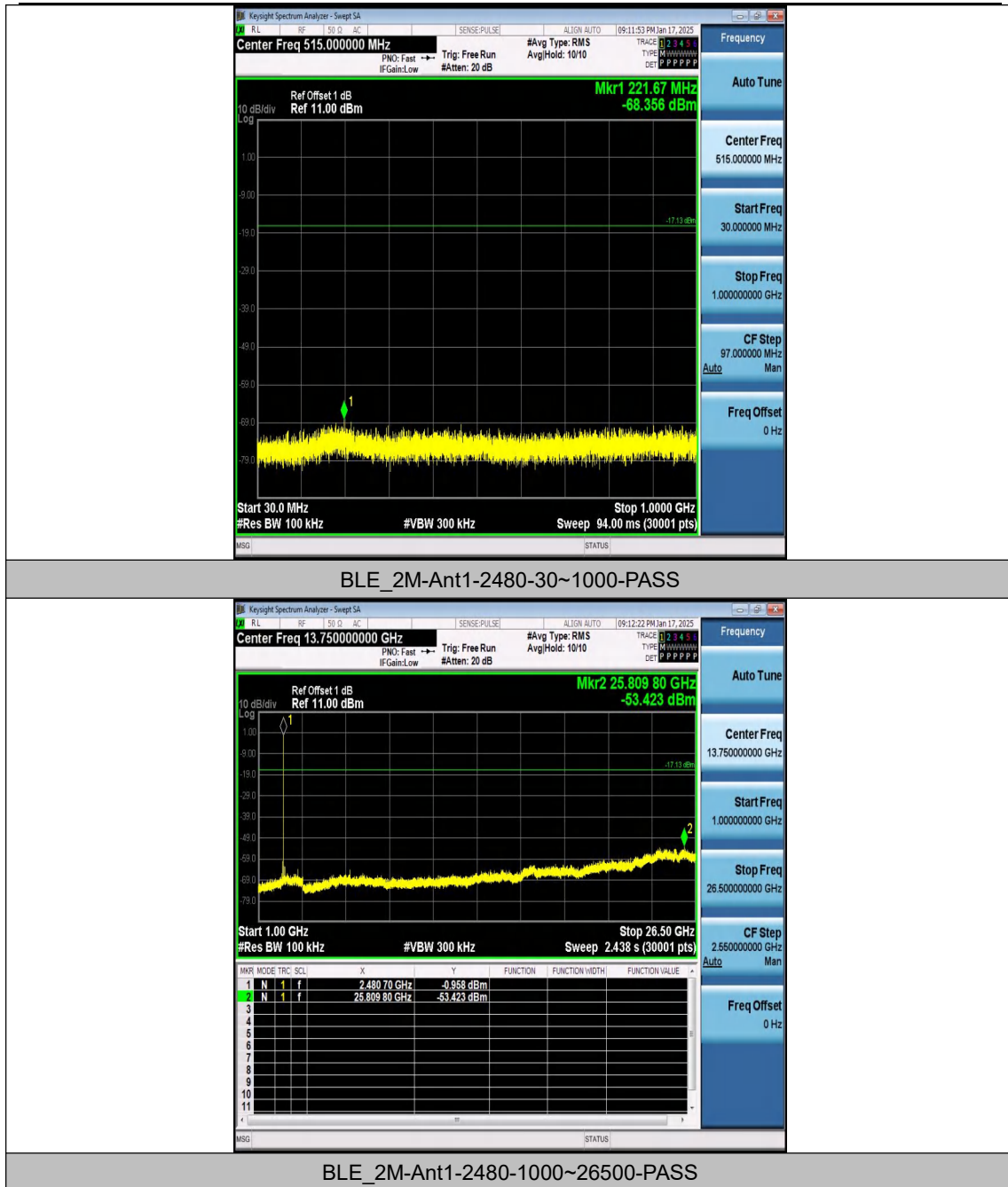


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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.08	2.49	83.53	0.78
BLE_1M	Ant1	2440	2.08	2.49	83.53	0.78
BLE_1M	Ant1	2480	2.09	2.49	83.94	0.76
BLE_2M	Ant1	2402	1.07	1.88	56.91	2.45
BLE_2M	Ant1	2440	1.07	1.88	56.91	2.45
BLE_2M	Ant1	2480	1.05	1.87	56.15	2.51

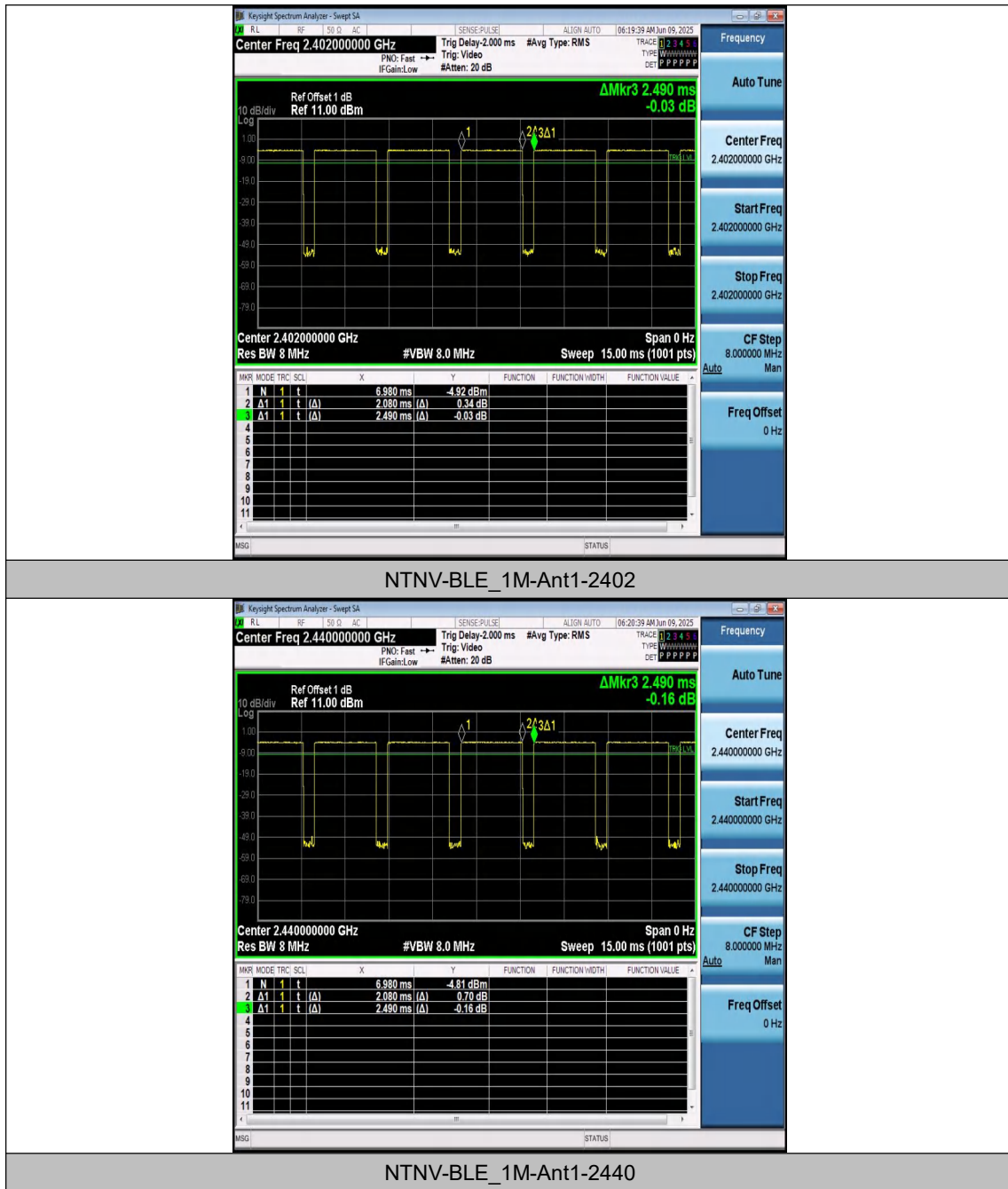
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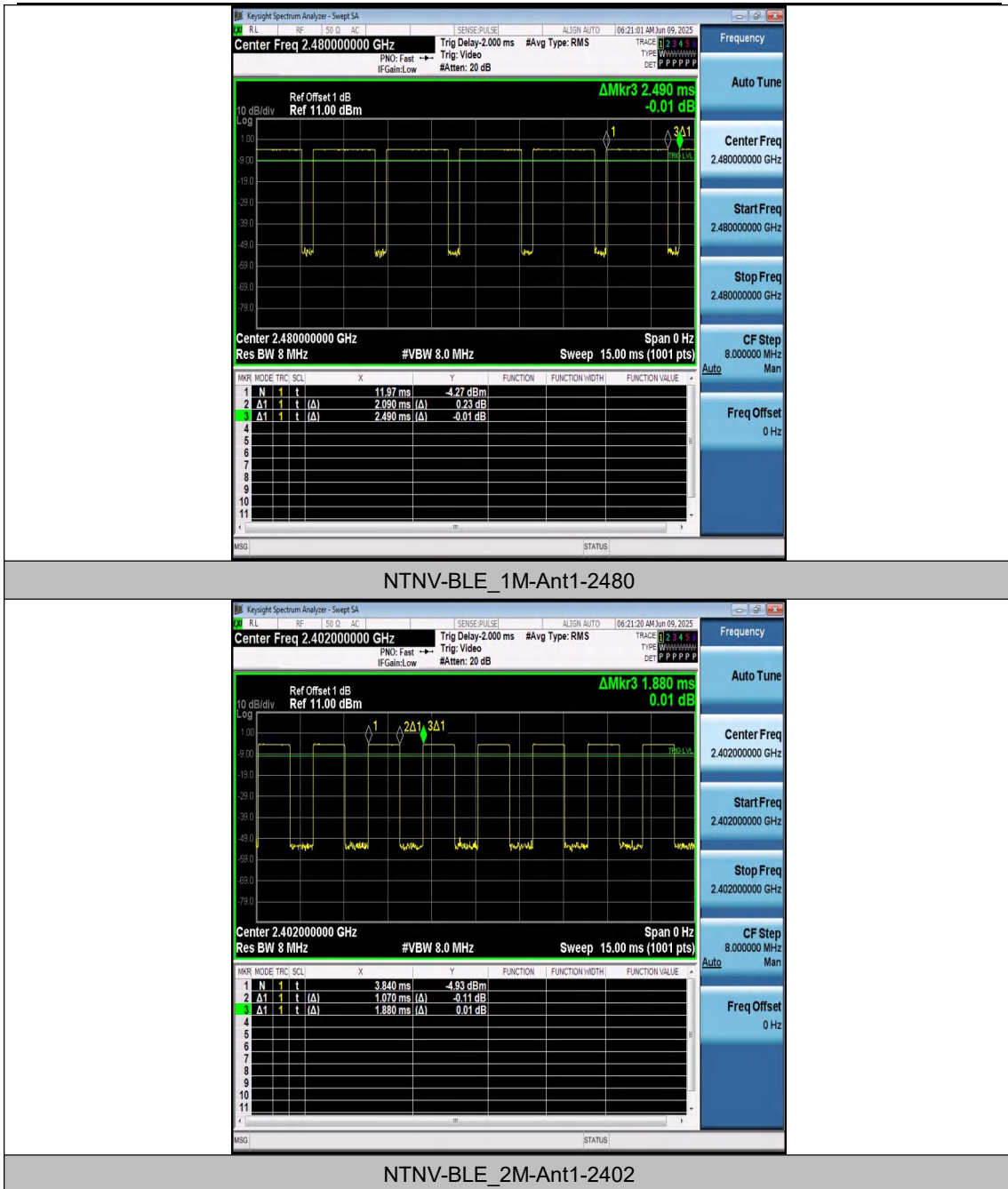
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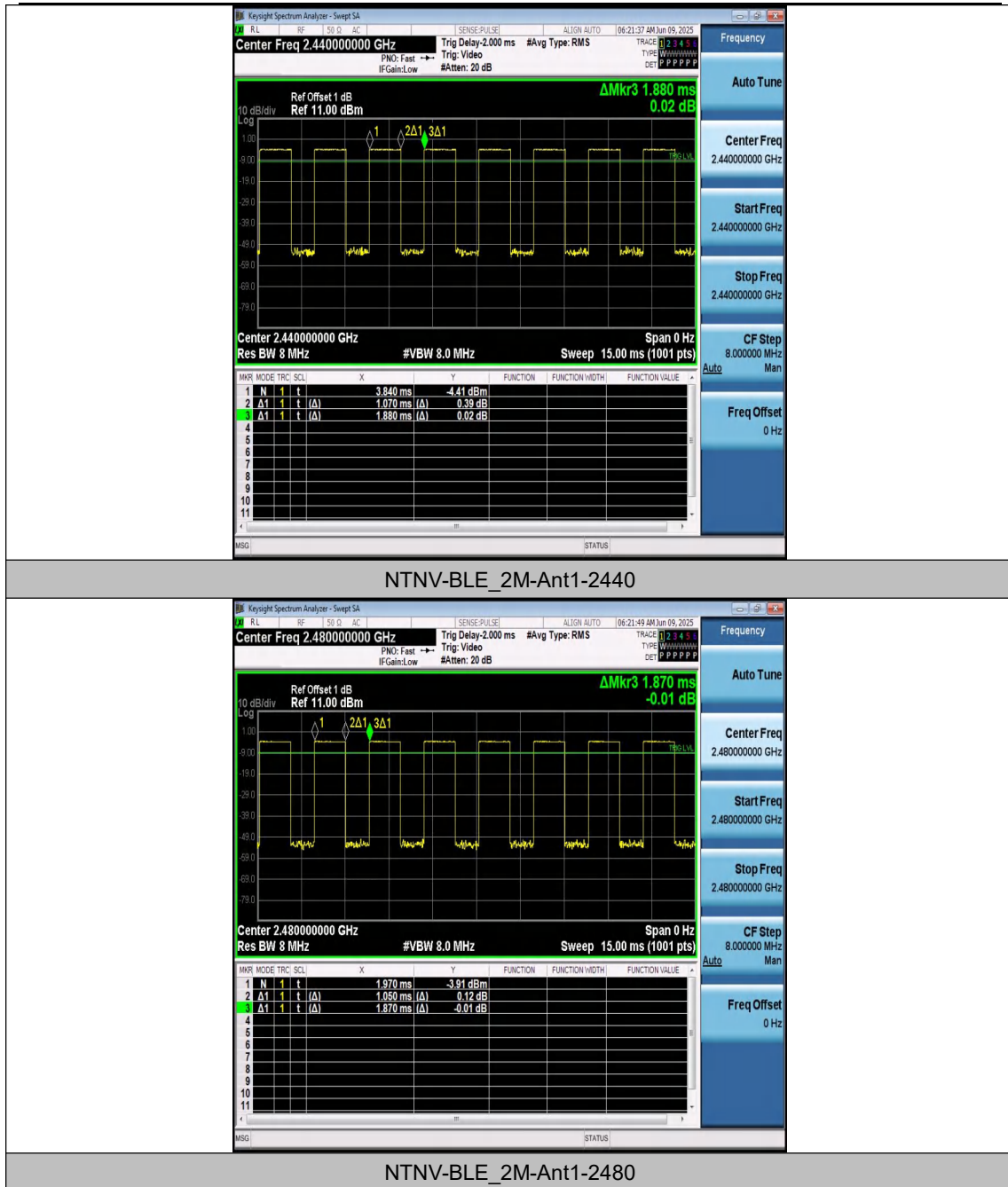


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Test Graphs







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