

Appendix Test Data

Report No.:	1812C50618312502-01	Test Sample No.:	1-2-2
Start Test Date:	2025-12-8	Finish Test Date:	2025-12-8
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24°C	Relative Humidity:	44%
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	0.684	2401.652	2402.336	0.5	PASS
BLE_1M	Ant1	2440	0.672	2439.660	2440.332	0.5	PASS
BLE_1M	Ant1	2480	0.664	2479.656	2480.320	0.5	PASS
BLE_2M	Ant1	2404	1.192	2403.376	2404.568	0.5	PASS
BLE_2M	Ant1	2440	1.180	2439.412	2440.592	0.5	PASS
BLE_2M	Ant1	2478	1.152	2477.440	2478.592	0.5	PASS

Test Graphs







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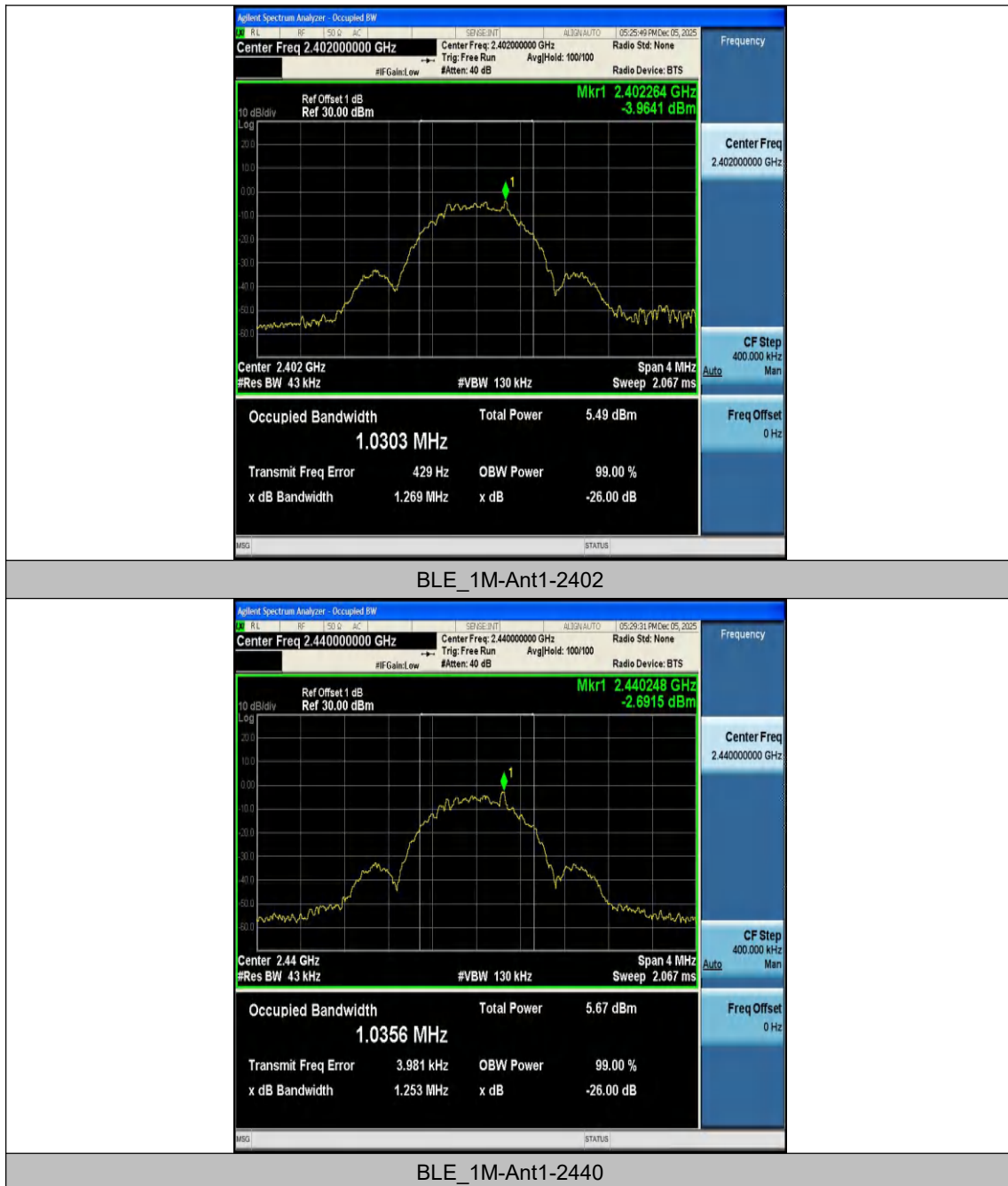
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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0303	2401.4853	2402.5156	---	---
BLE_1M	Ant1	2440	1.0356	2439.4862	2440.5218	---	---
BLE_1M	Ant1	2480	1.0431	2479.4821	2480.5252	---	---
BLE_2M	Ant1	2404	2.0818	2402.9793	2405.0611	---	---
BLE_2M	Ant1	2440	2.0632	2438.9870	2441.0502	---	---
BLE_2M	Ant1	2478	2.0720	2476.9830	2479.0550	---	---

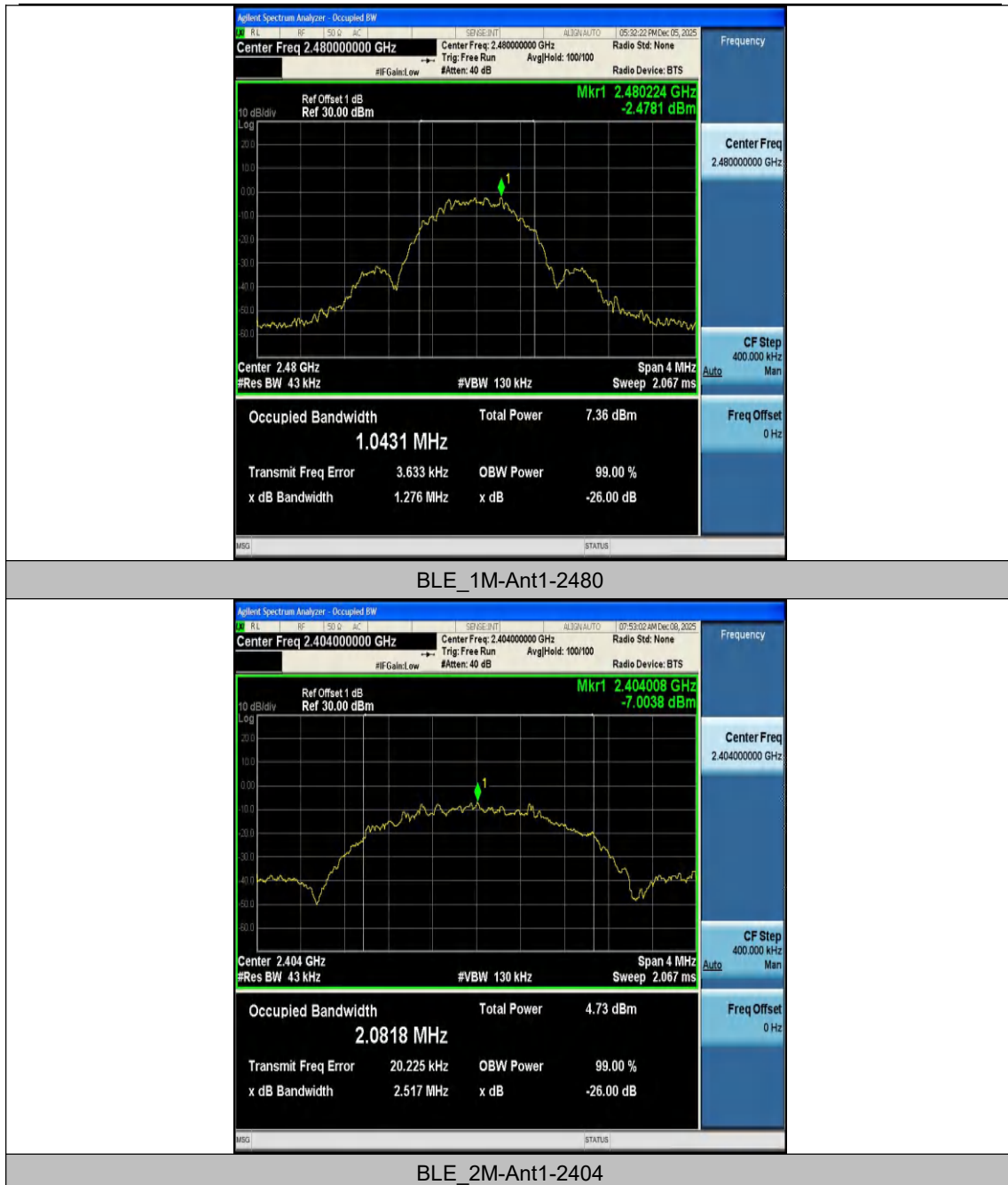
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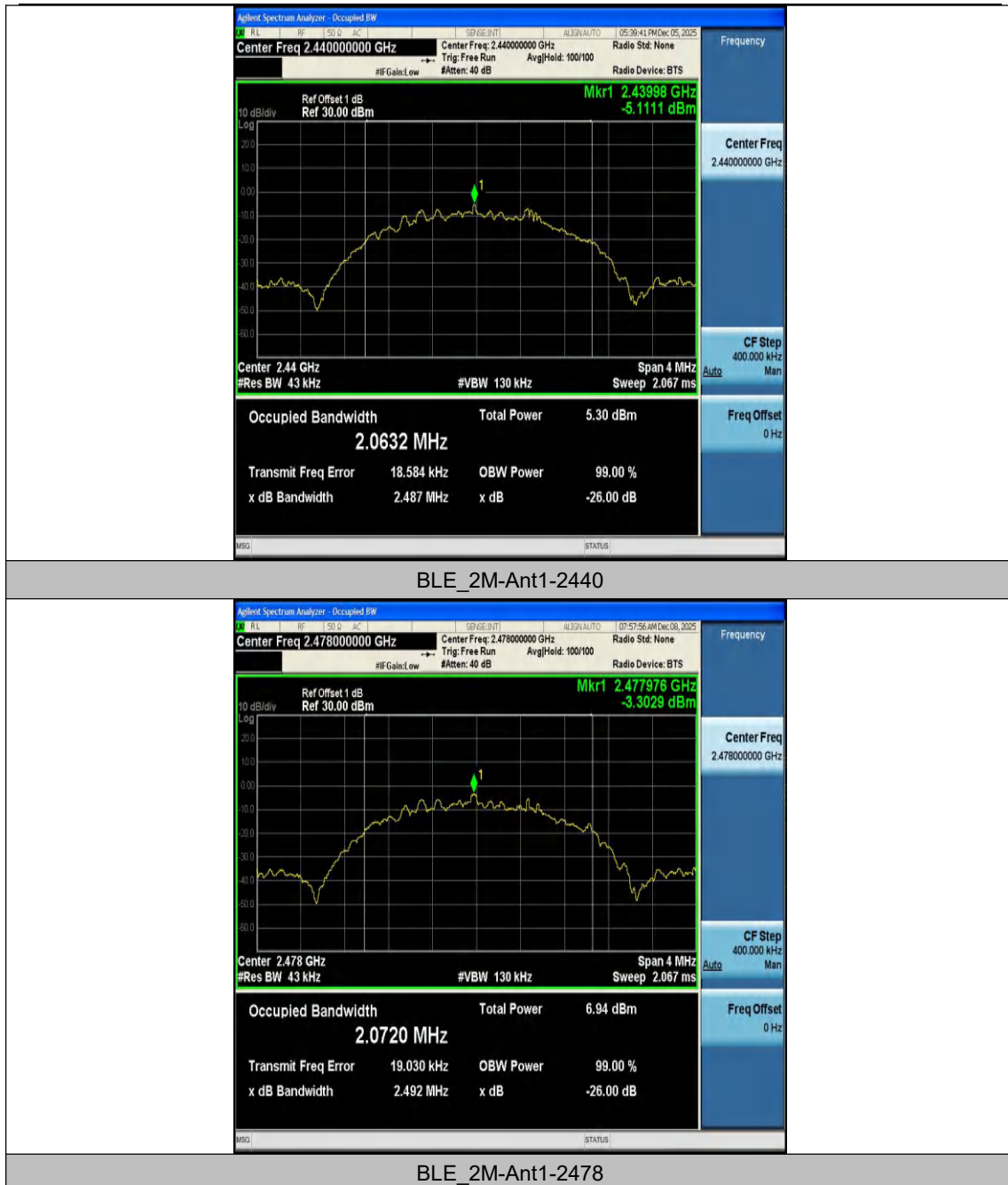
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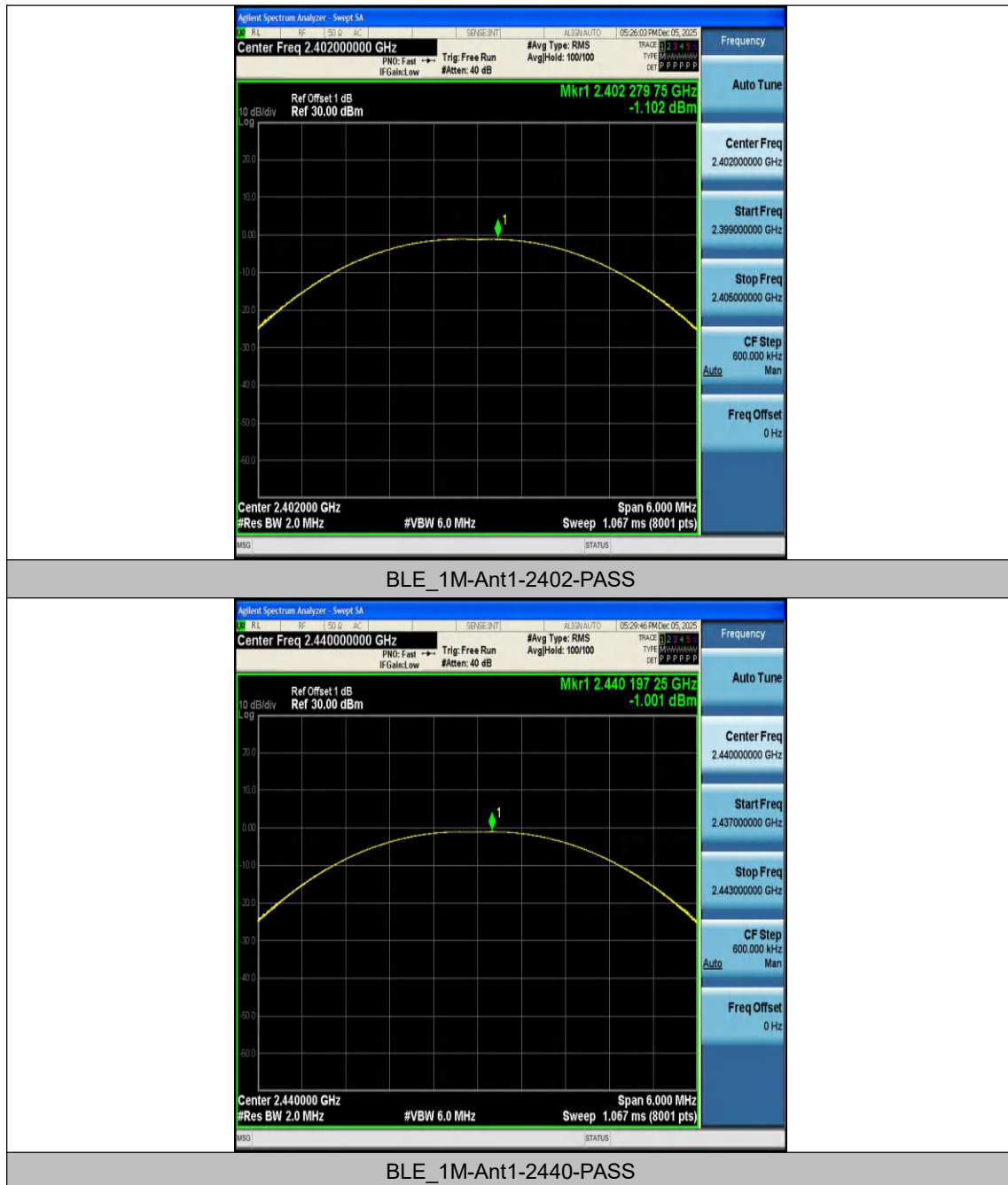
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.10	≤30	PASS
BLE_1M	Ant1	2440	-1.00	≤30	PASS
BLE_1M	Ant1	2480	0.76	≤30	PASS
BLE_2M	Ant1	2404	-1.33	≤30	PASS
BLE_2M	Ant1	2440	-0.98	≤30	PASS
BLE_2M	Ant1	2478	0.67	≤30	PASS

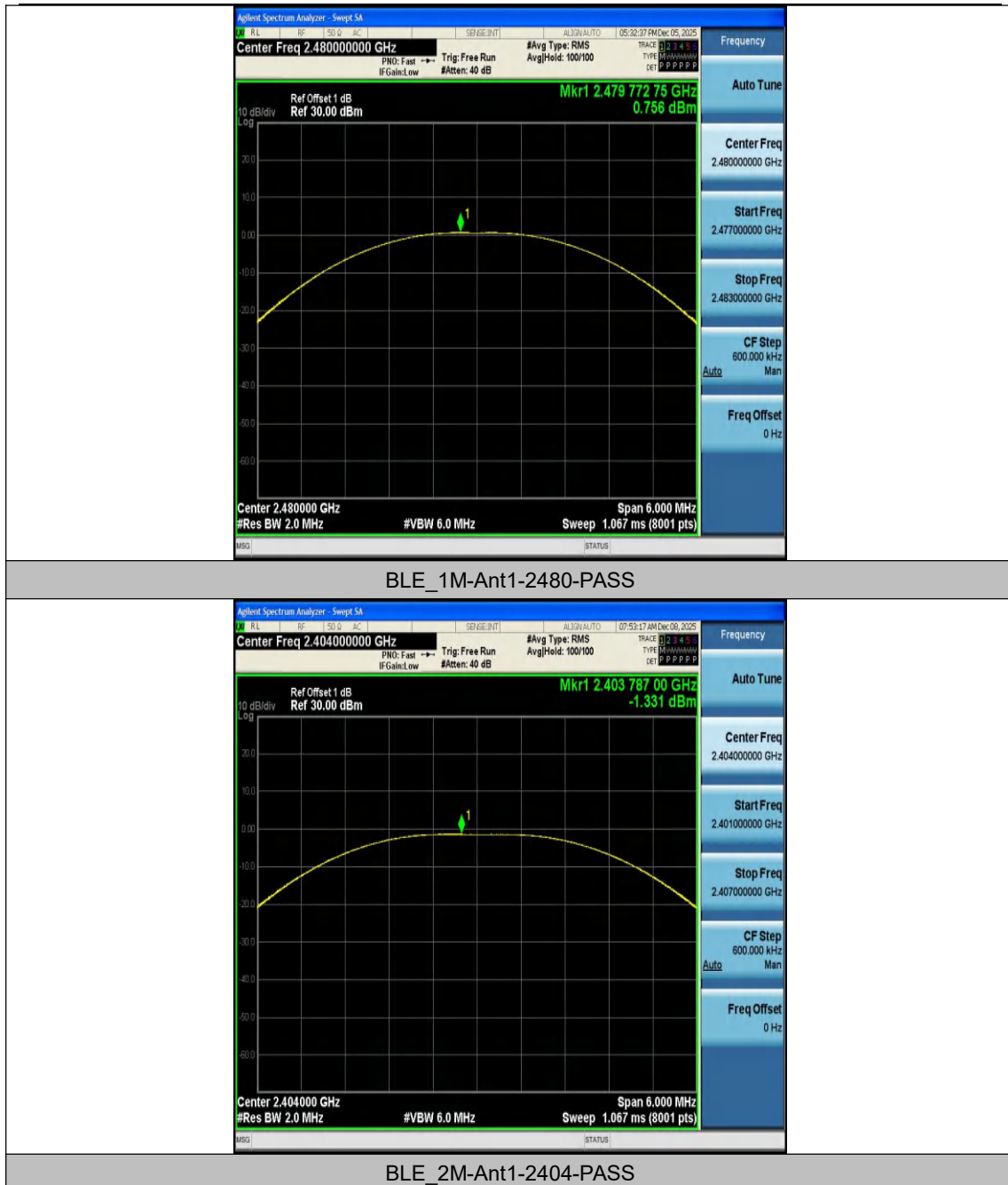
Test Graphs Peak



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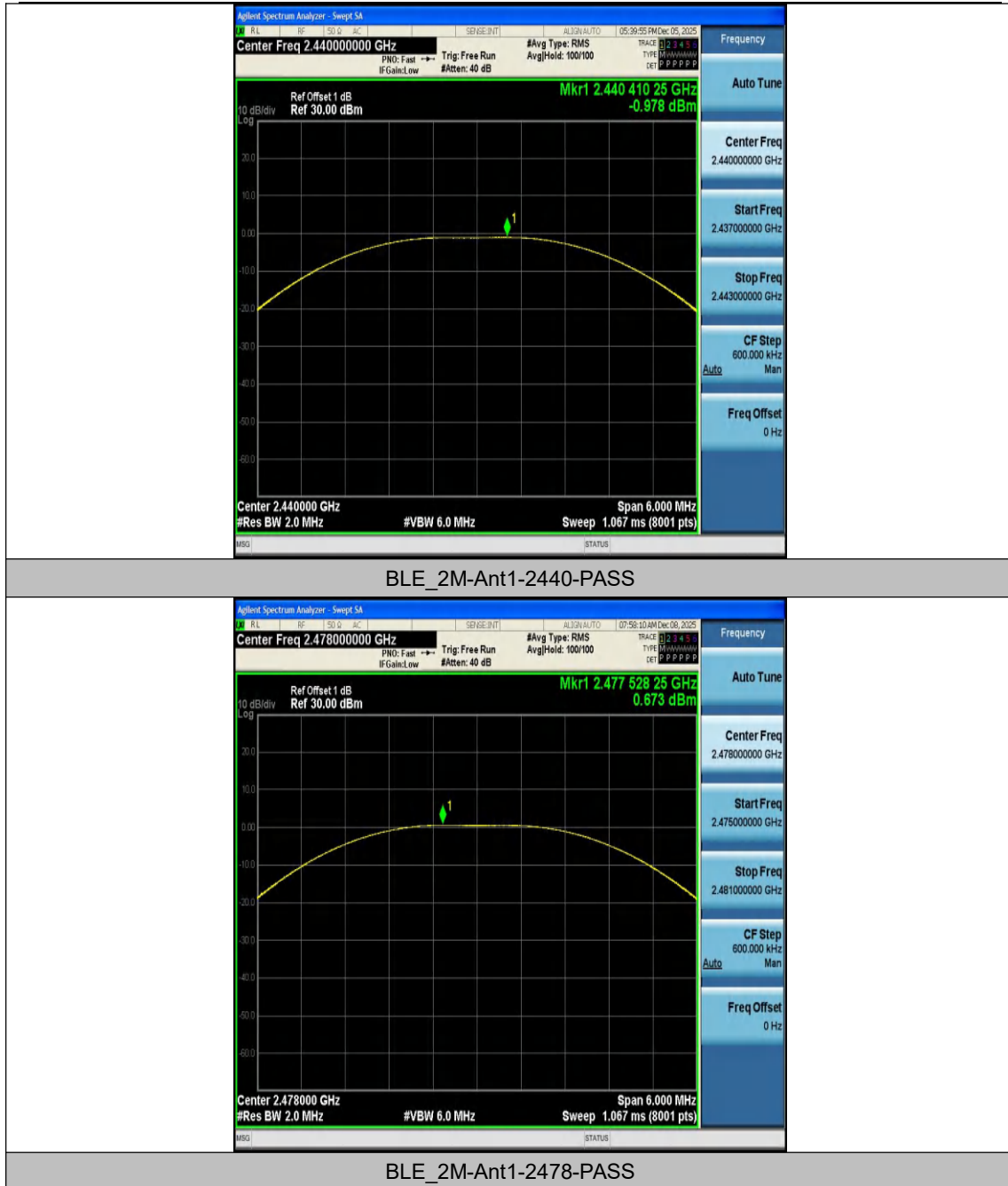
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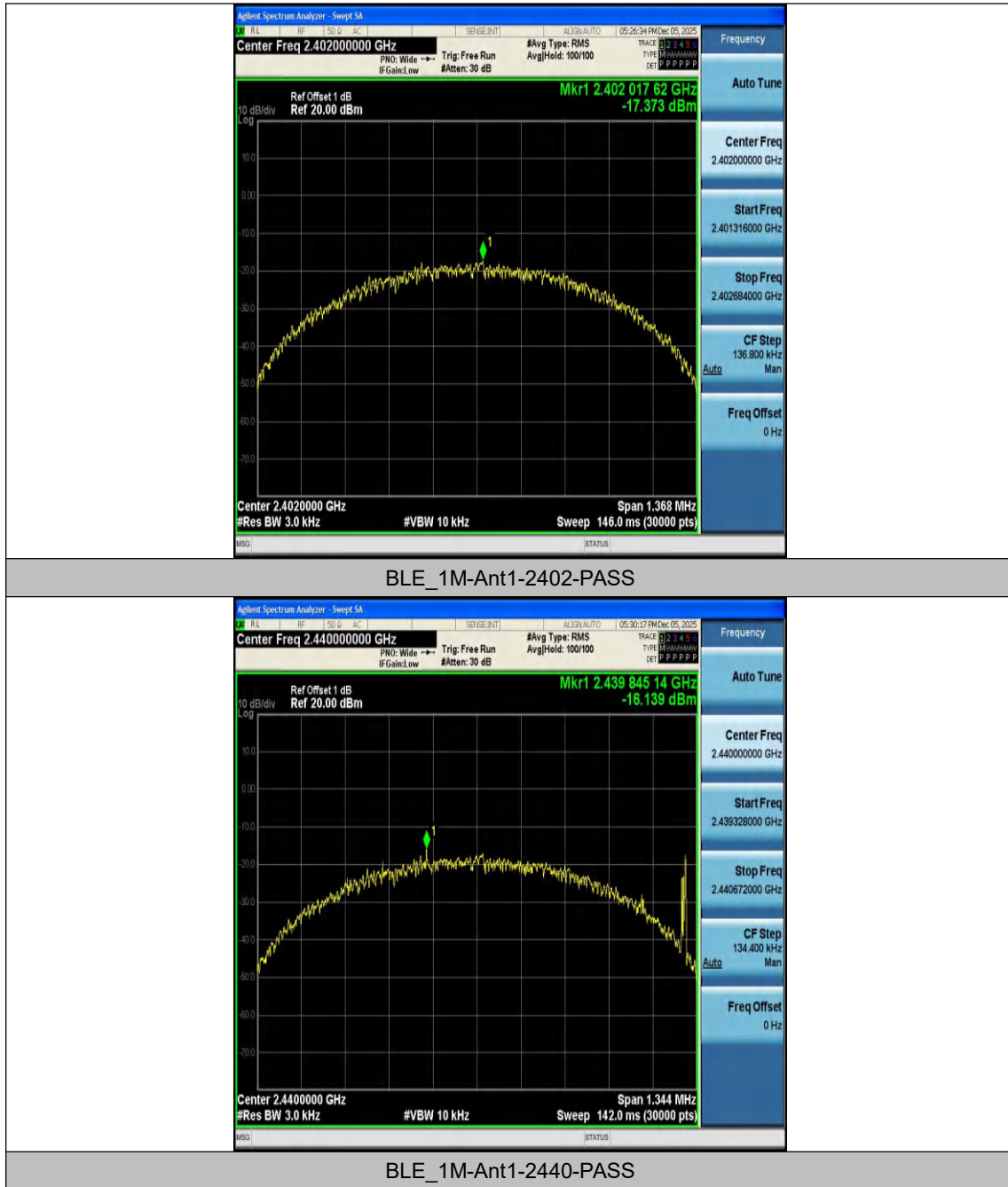
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.37	≤8.00	PASS
BLE_1M	Ant1	2440	-16.14	≤8.00	PASS
BLE_1M	Ant1	2480	-15.53	≤8.00	PASS
BLE_2M	Ant1	2404	-20.09	≤8.00	PASS
BLE_2M	Ant1	2440	-19.91	≤8.00	PASS
BLE_2M	Ant1	2478	-18.05	≤8.00	PASS

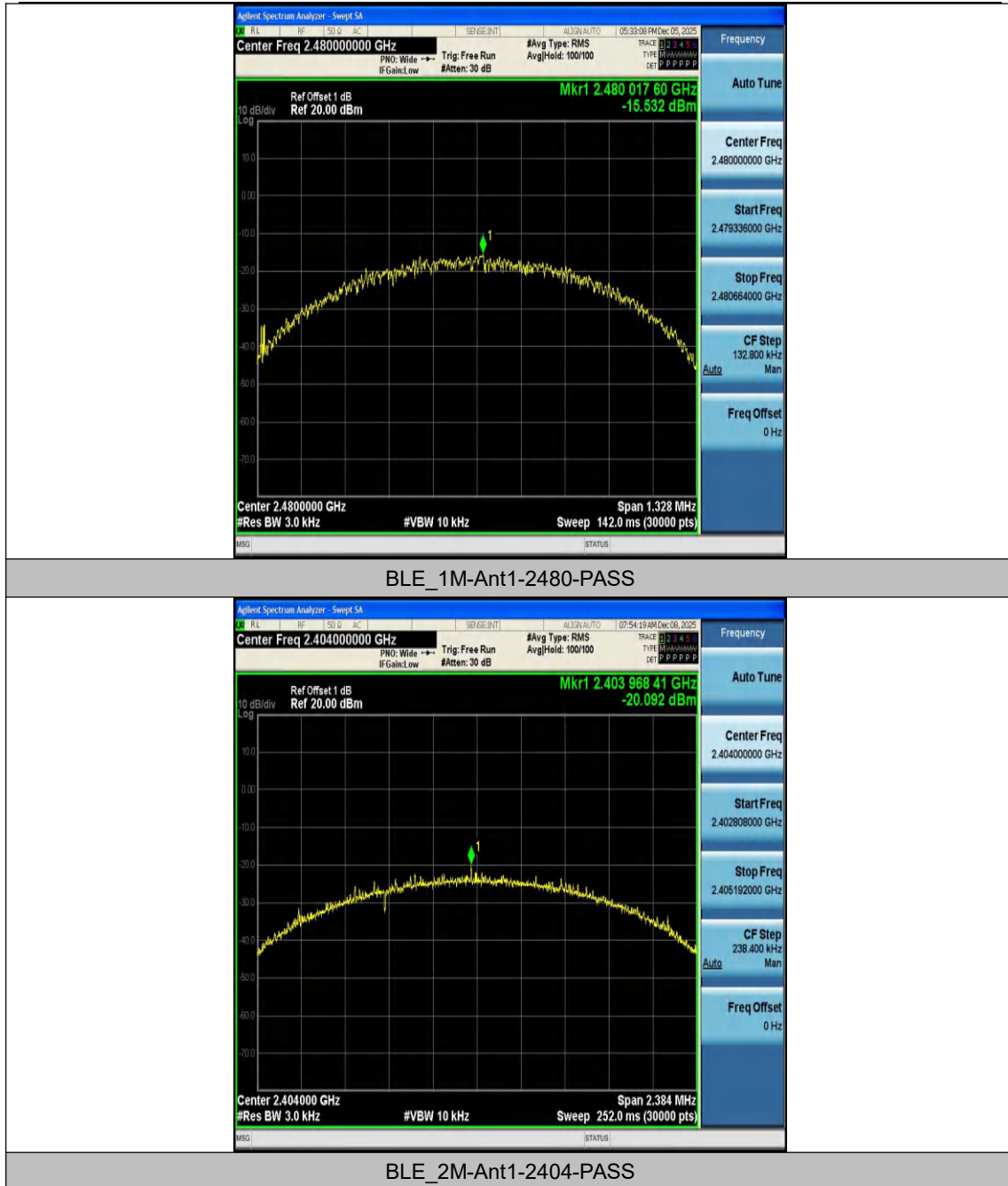
Test Graphs



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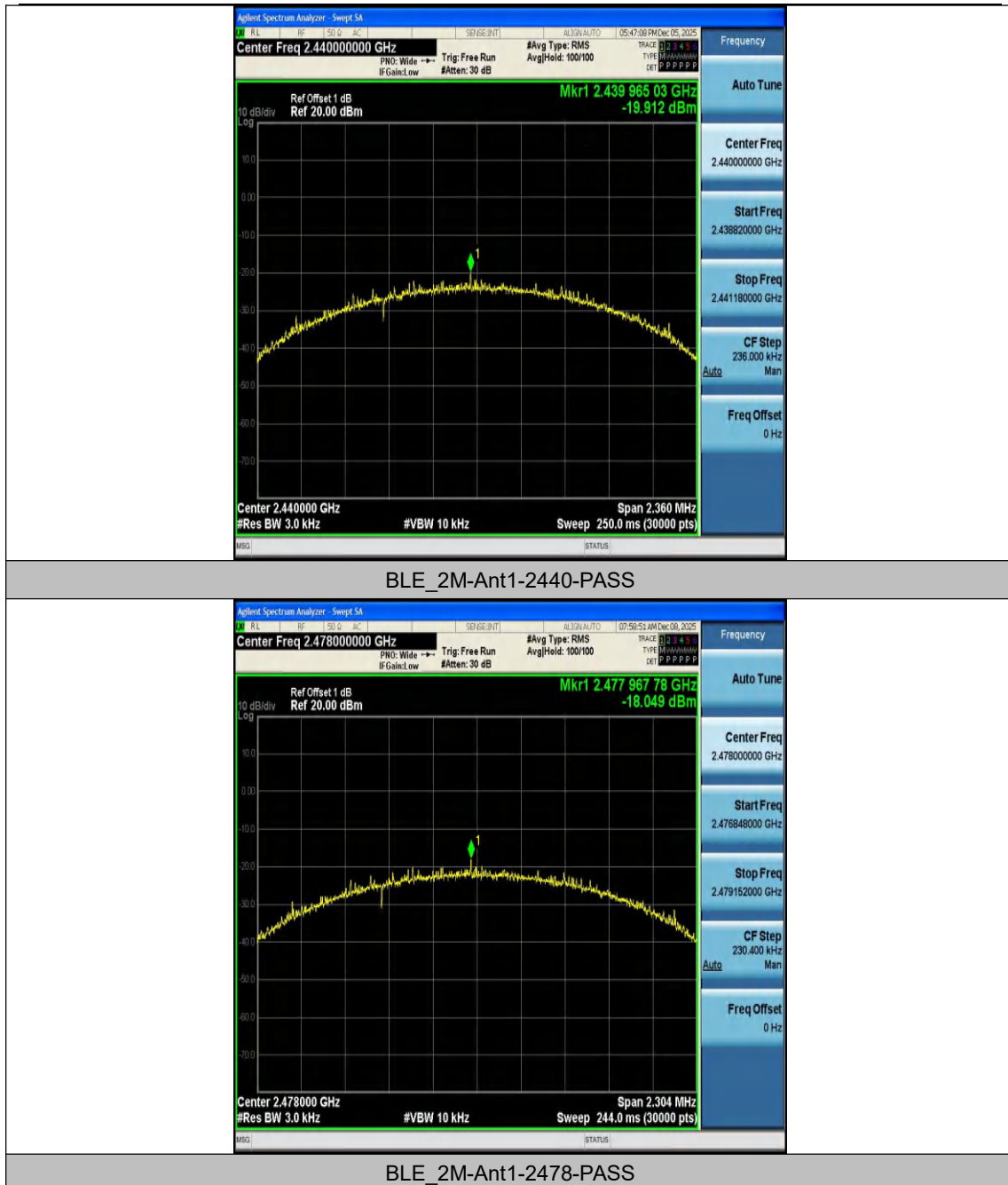
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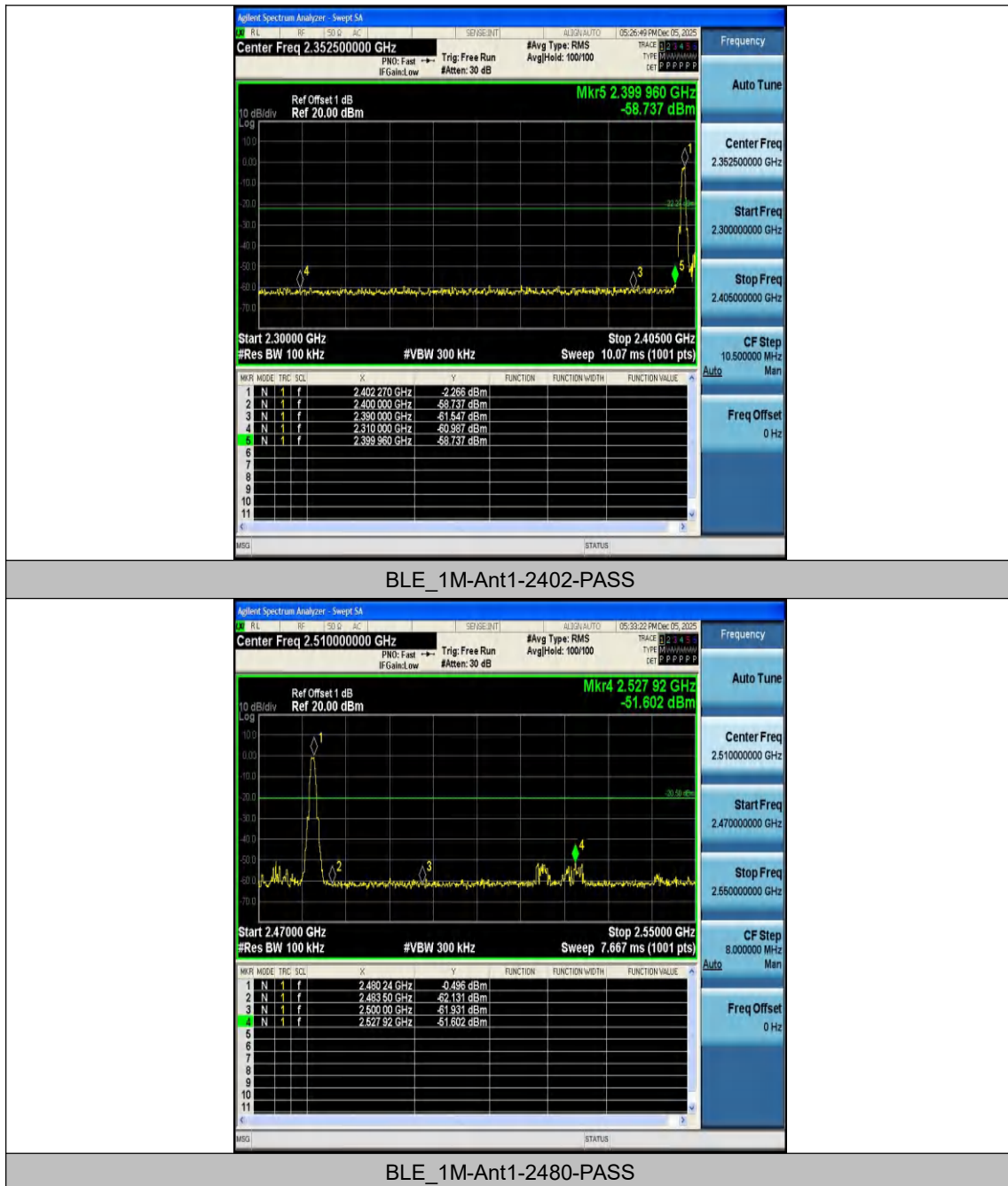
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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.27	-58.74	≤-22.27	PASS
BLE_1M	Ant1	High	2480	-0.50	-51.6	≤-20.5	PASS
BLE_2M	Ant1	Low	2404	-3.91	-59.46	≤-23.91	PASS
BLE_2M	Ant1	High	2478	-0.12	-58.45	≤-20.12	PASS

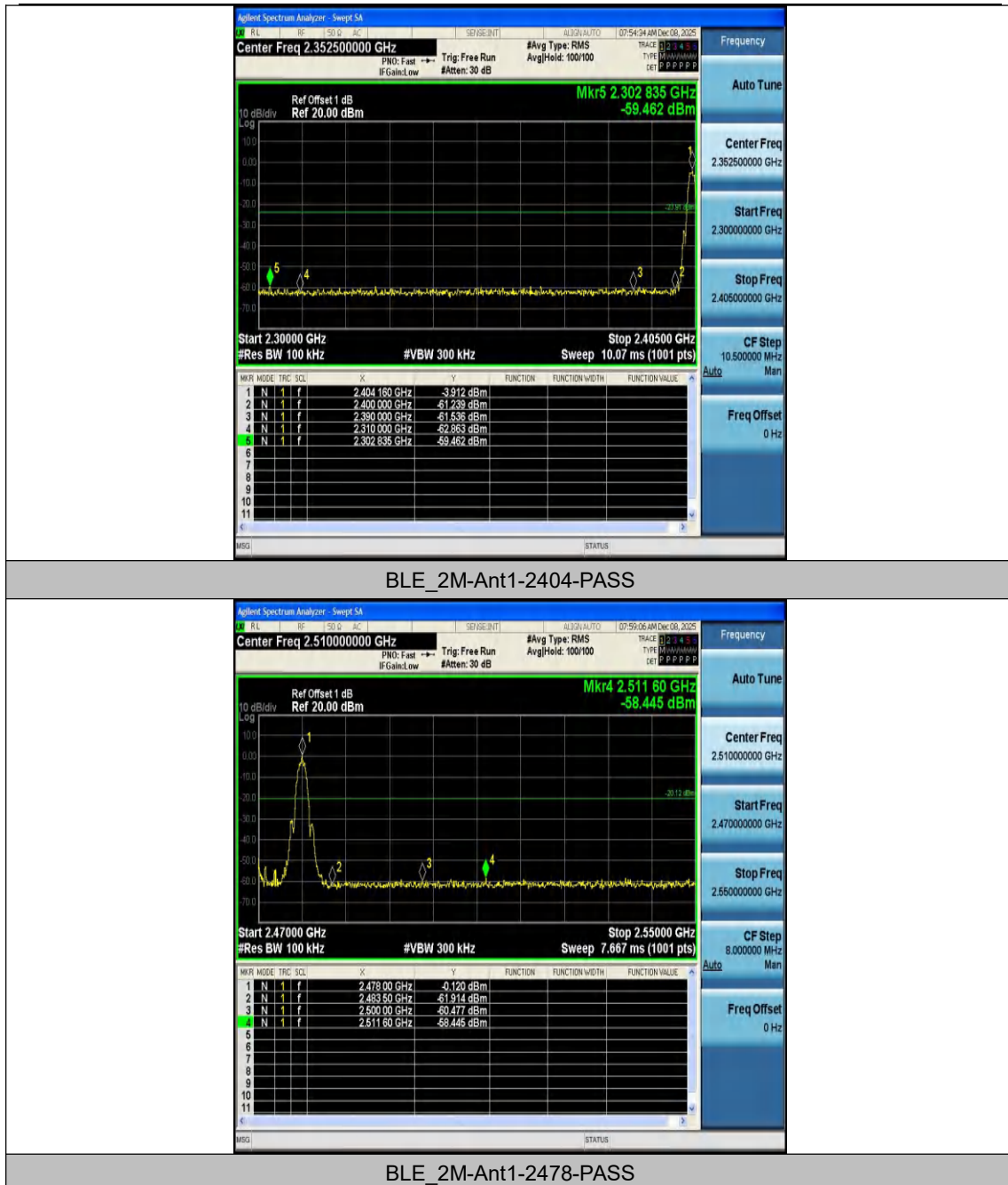
Test Graphs



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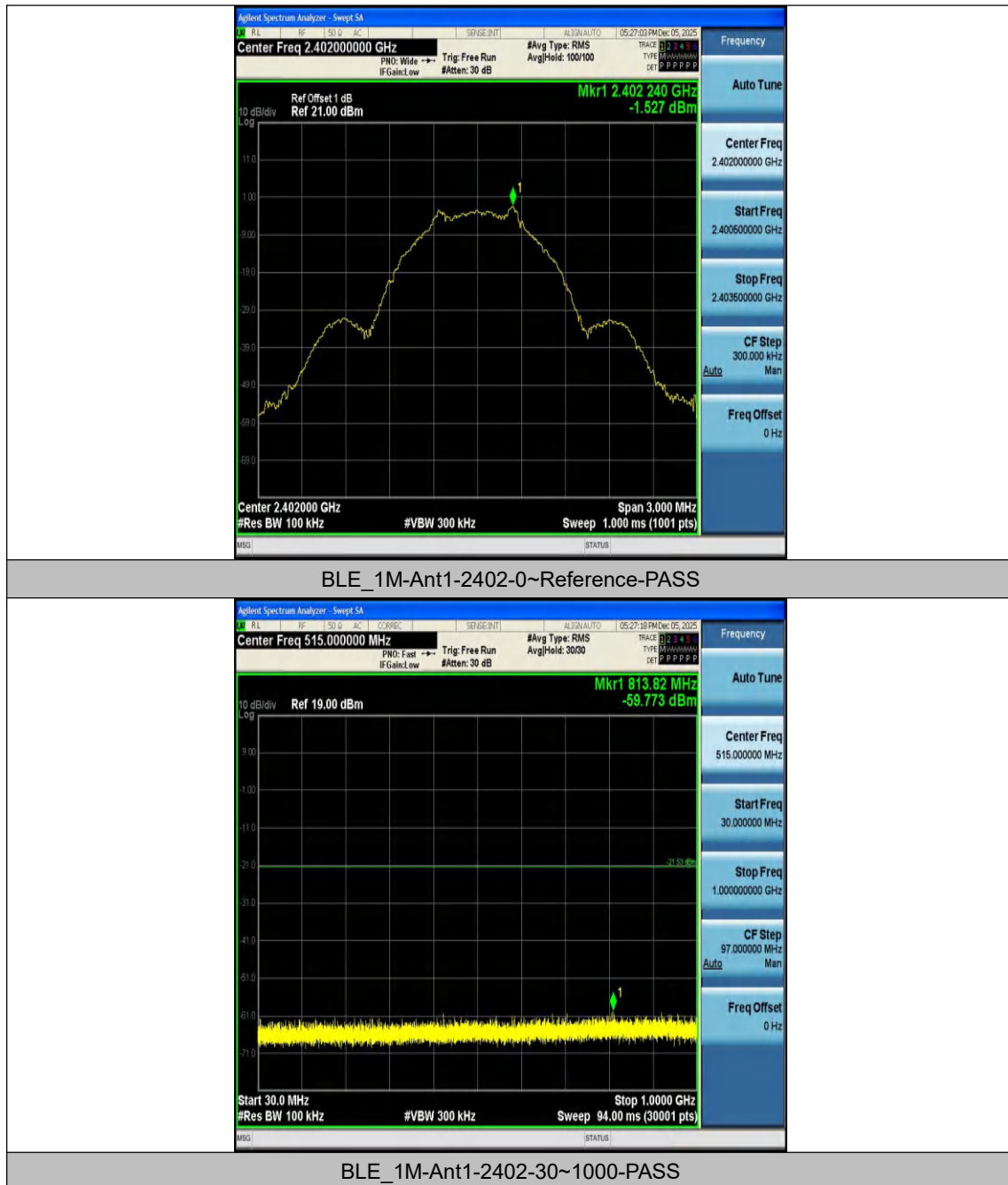
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-1.53	-1.53	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.53	-59.77	≤-21.53	PASS
BLE_1M	Ant1	2402	1000~26500	-1.53	-46.1	≤-21.53	PASS
BLE_1M	Ant1	2440	0~Reference	-1.37	-1.37	---	PASS
BLE_1M	Ant1	2440	30~1000	-1.37	-59.26	≤-21.37	PASS
BLE_1M	Ant1	2440	1000~26500	-1.37	-38.37	≤-21.37	PASS
BLE_1M	Ant1	2480	0~Reference	0.37	0.37	---	PASS
BLE_1M	Ant1	2480	30~1000	0.37	-59.88	≤-19.63	PASS
BLE_1M	Ant1	2480	1000~26500	0.37	-46.17	≤-19.63	PASS
BLE_2M	Ant1	2404	0~Reference	-2.83	-2.83	---	PASS
BLE_2M	Ant1	2404	30~1000	-2.83	-59.3	≤-22.83	PASS
BLE_2M	Ant1	2404	1000~26500	-2.83	-46.9	≤-22.83	PASS
BLE_2M	Ant1	2440	0~Reference	-2.32	-2.32	---	PASS
BLE_2M	Ant1	2440	30~1000	-2.32	-51.28	≤-22.32	PASS
BLE_2M	Ant1	2440	1000~26500	-2.32	-45.94	≤-22.32	PASS
BLE_2M	Ant1	2478	0~Reference	-1.61	-1.61	---	PASS
BLE_2M	Ant1	2478	30~1000	-1.61	-59.99	≤-21.61	PASS
BLE_2M	Ant1	2478	1000~26500	-1.61	-46.67	≤-21.61	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.

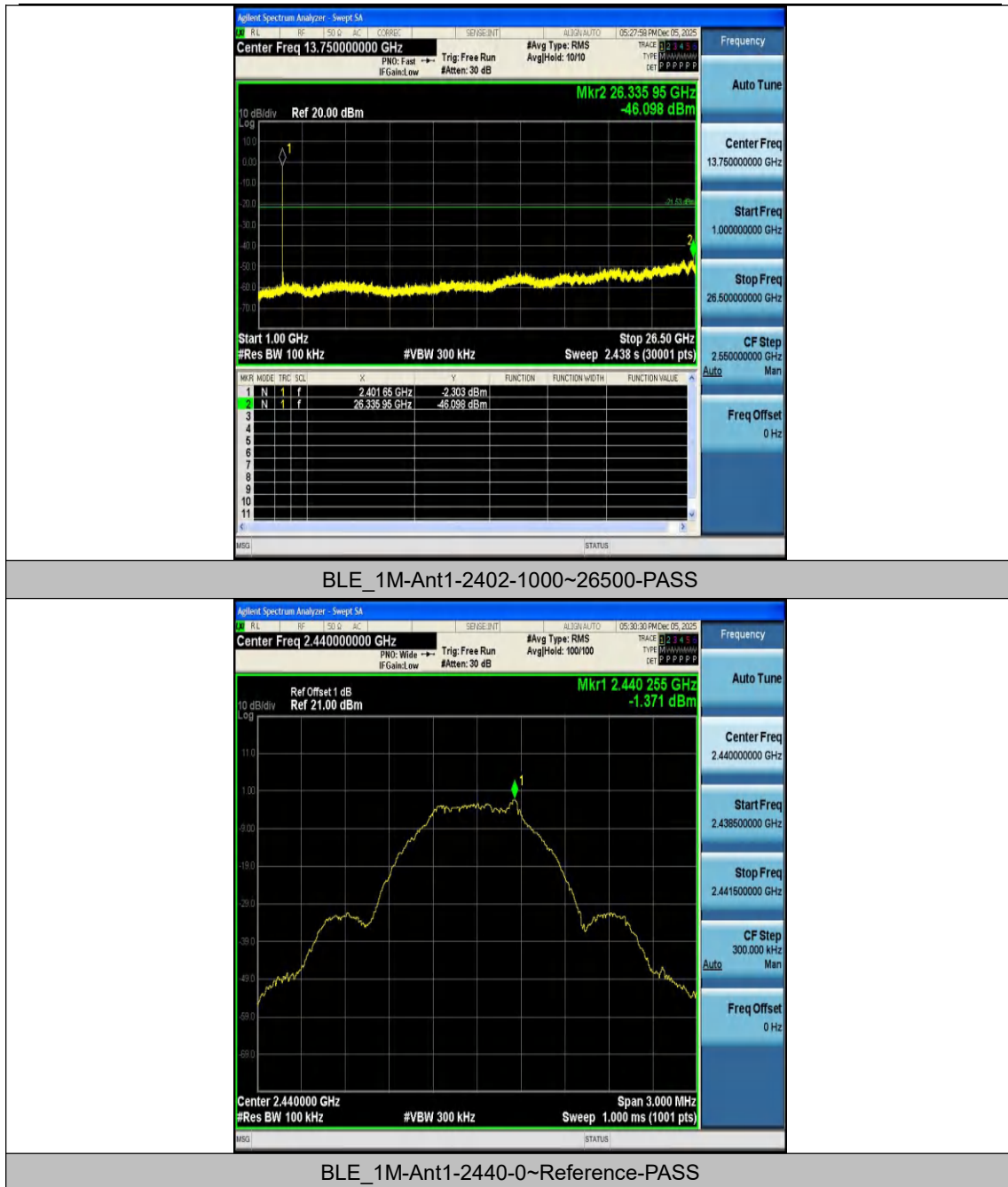
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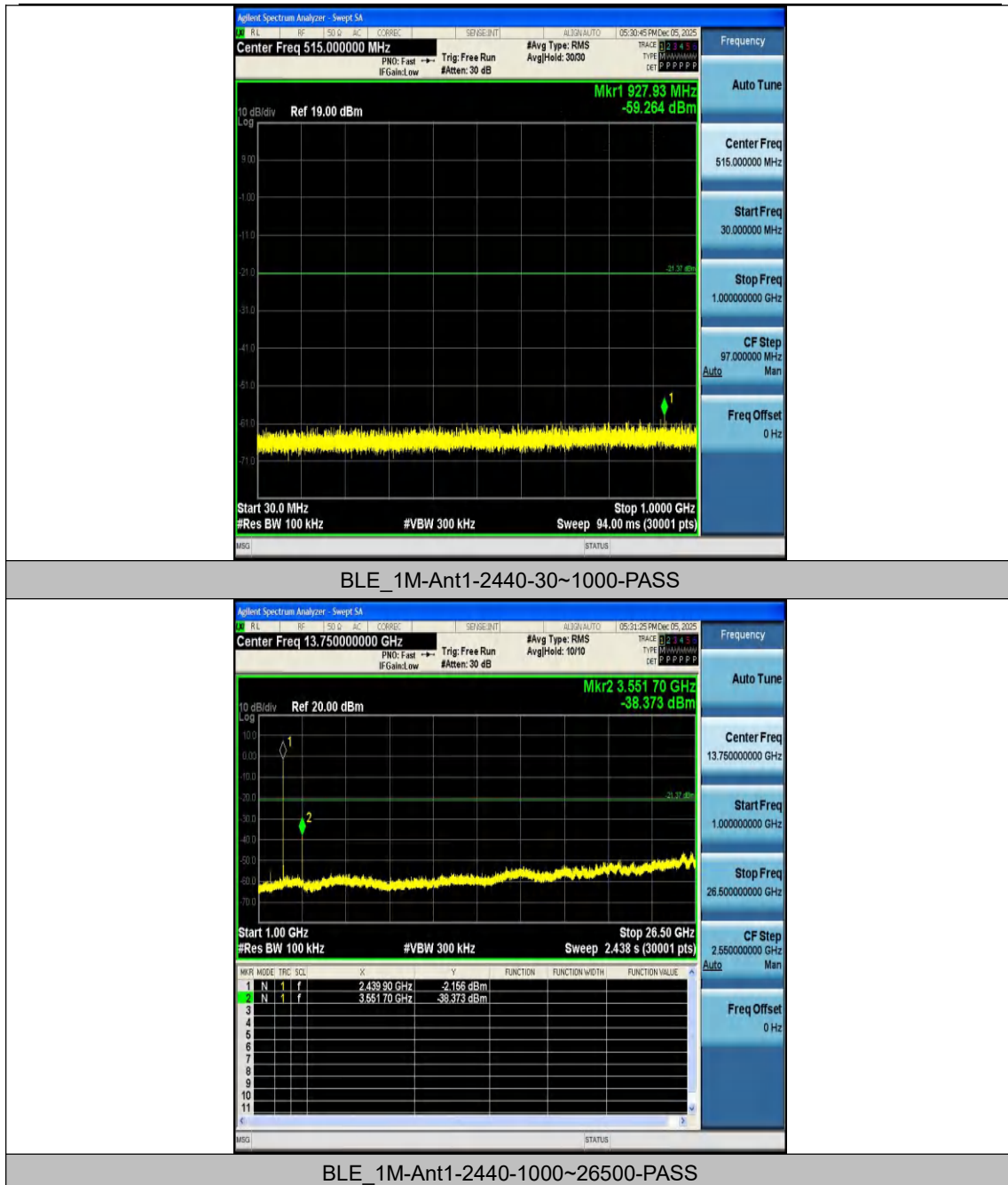
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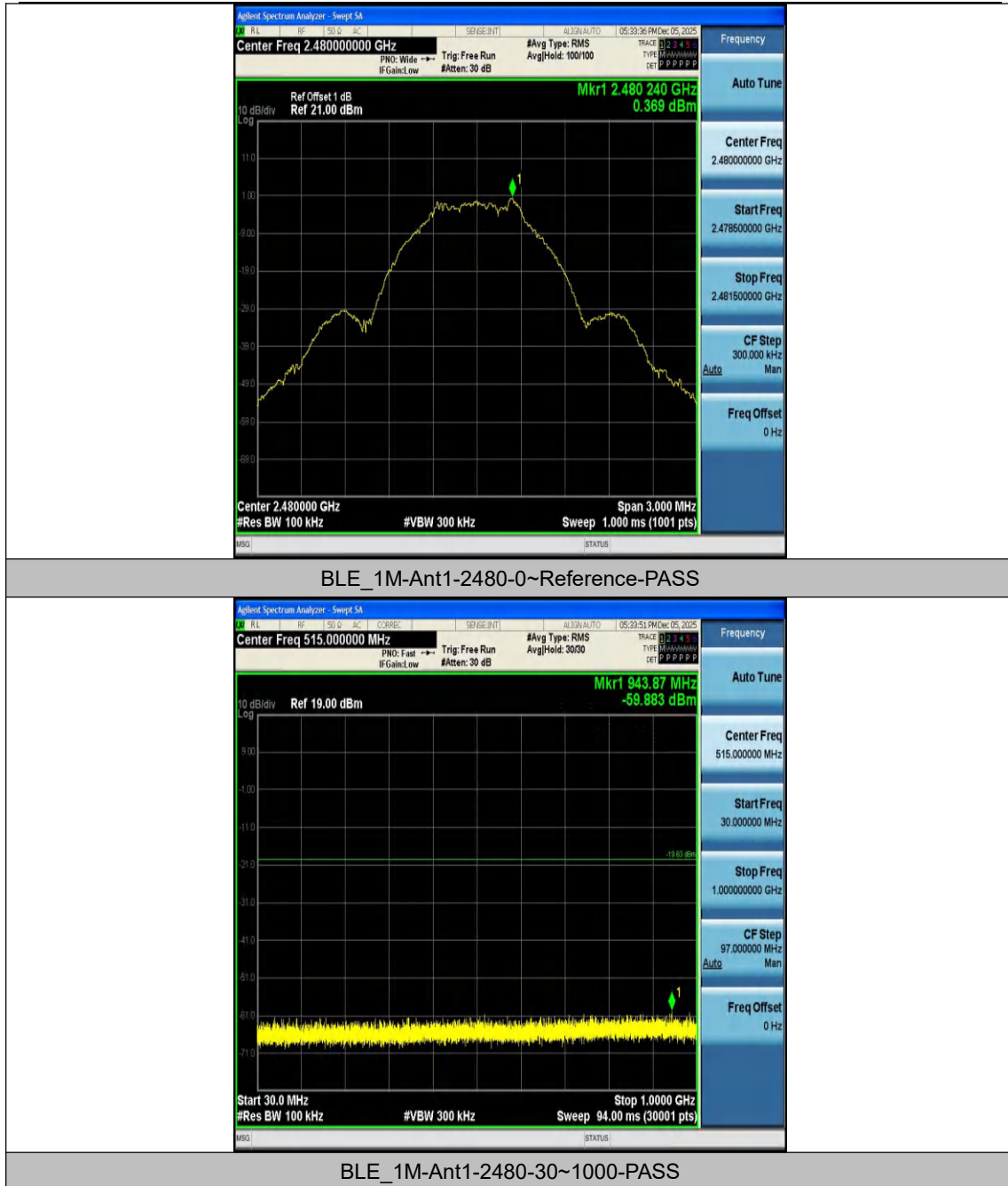
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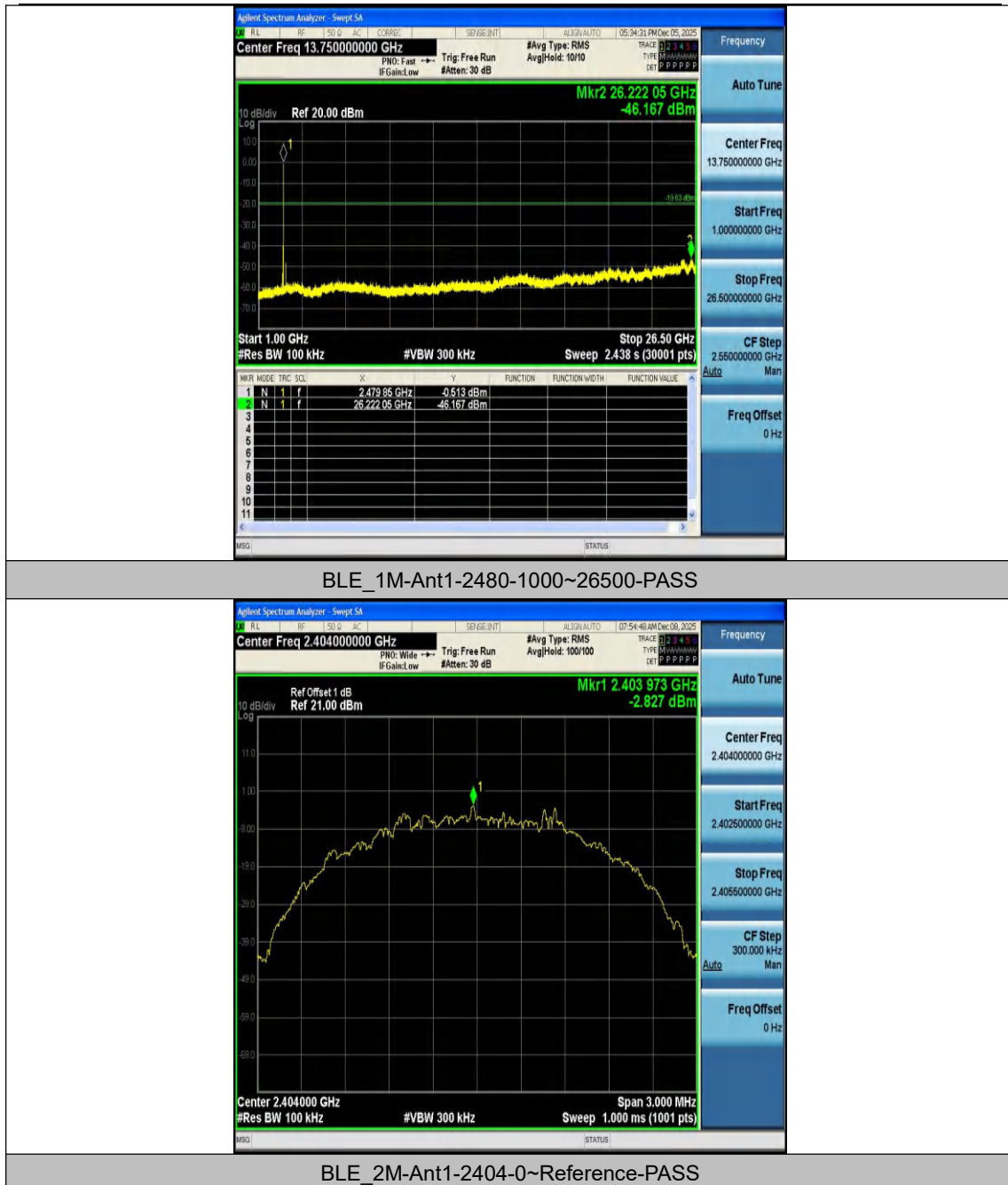
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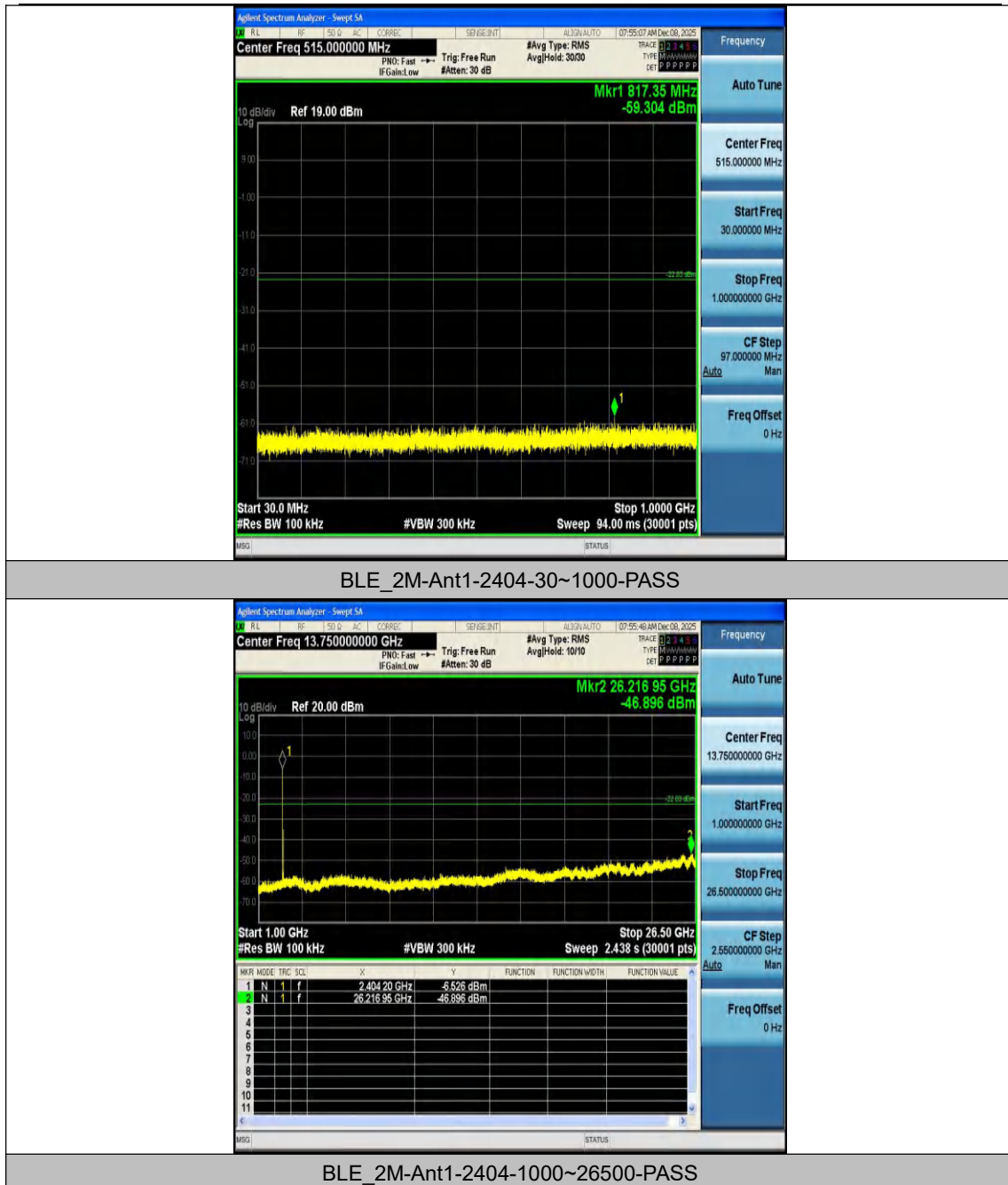
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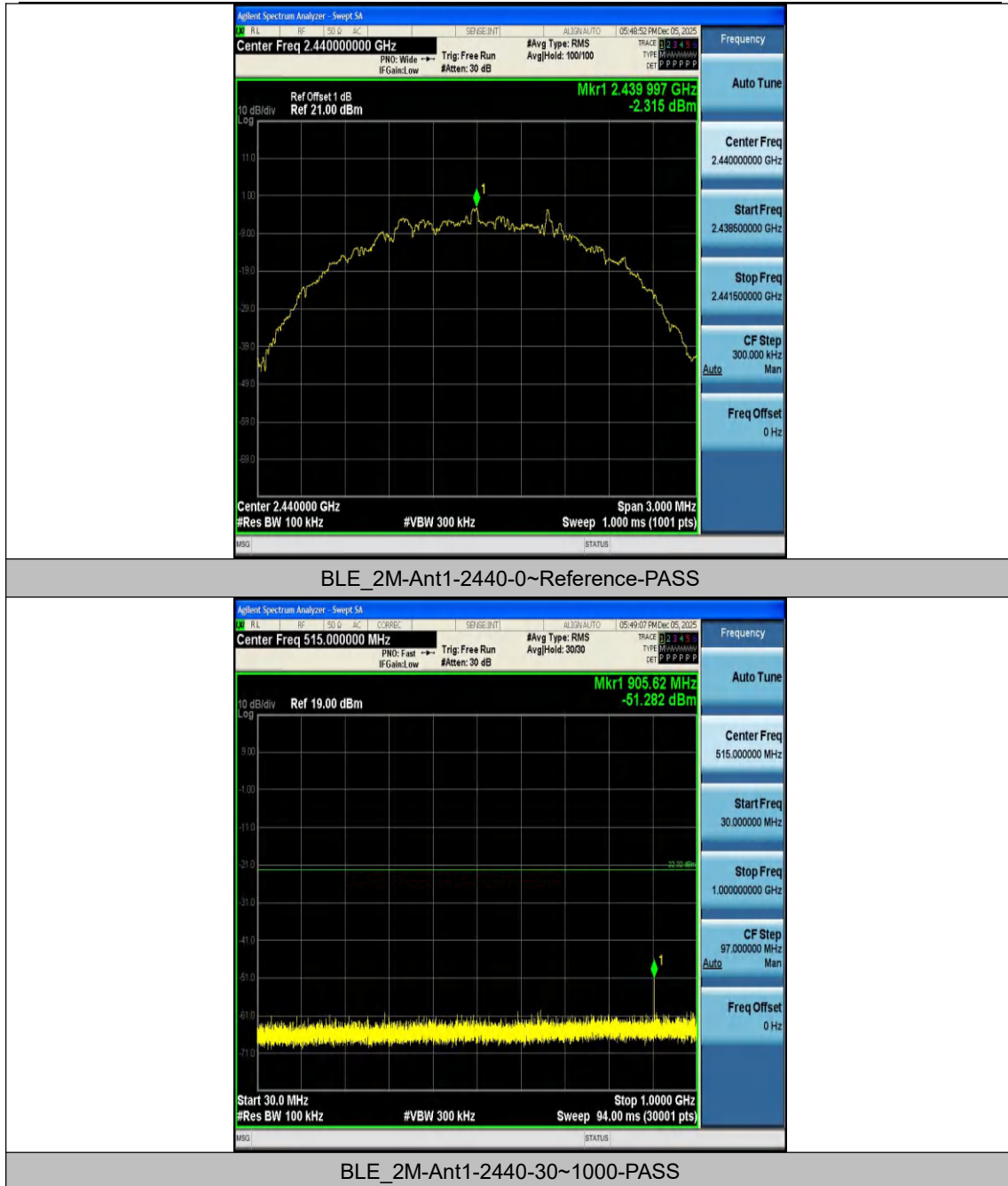


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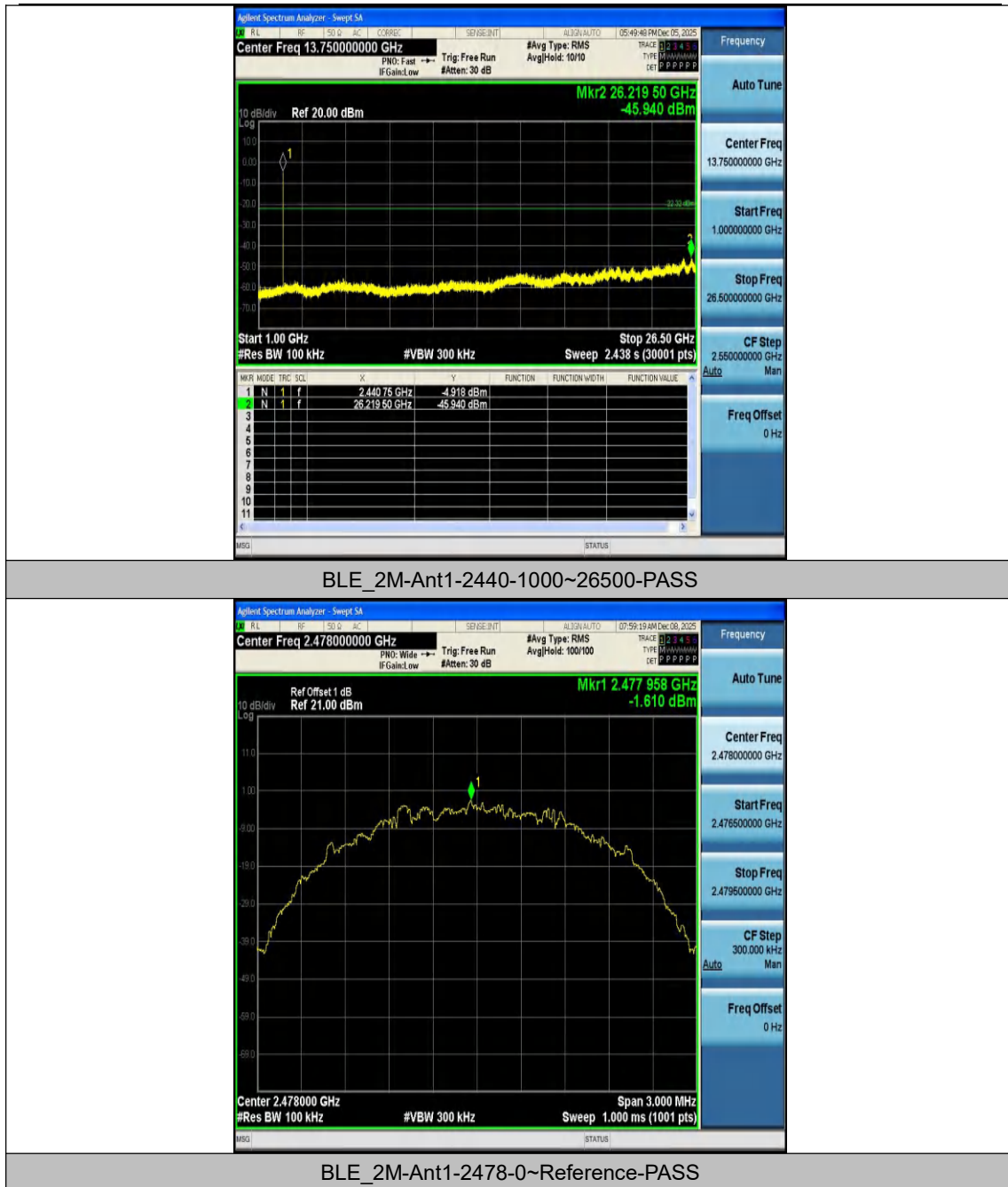




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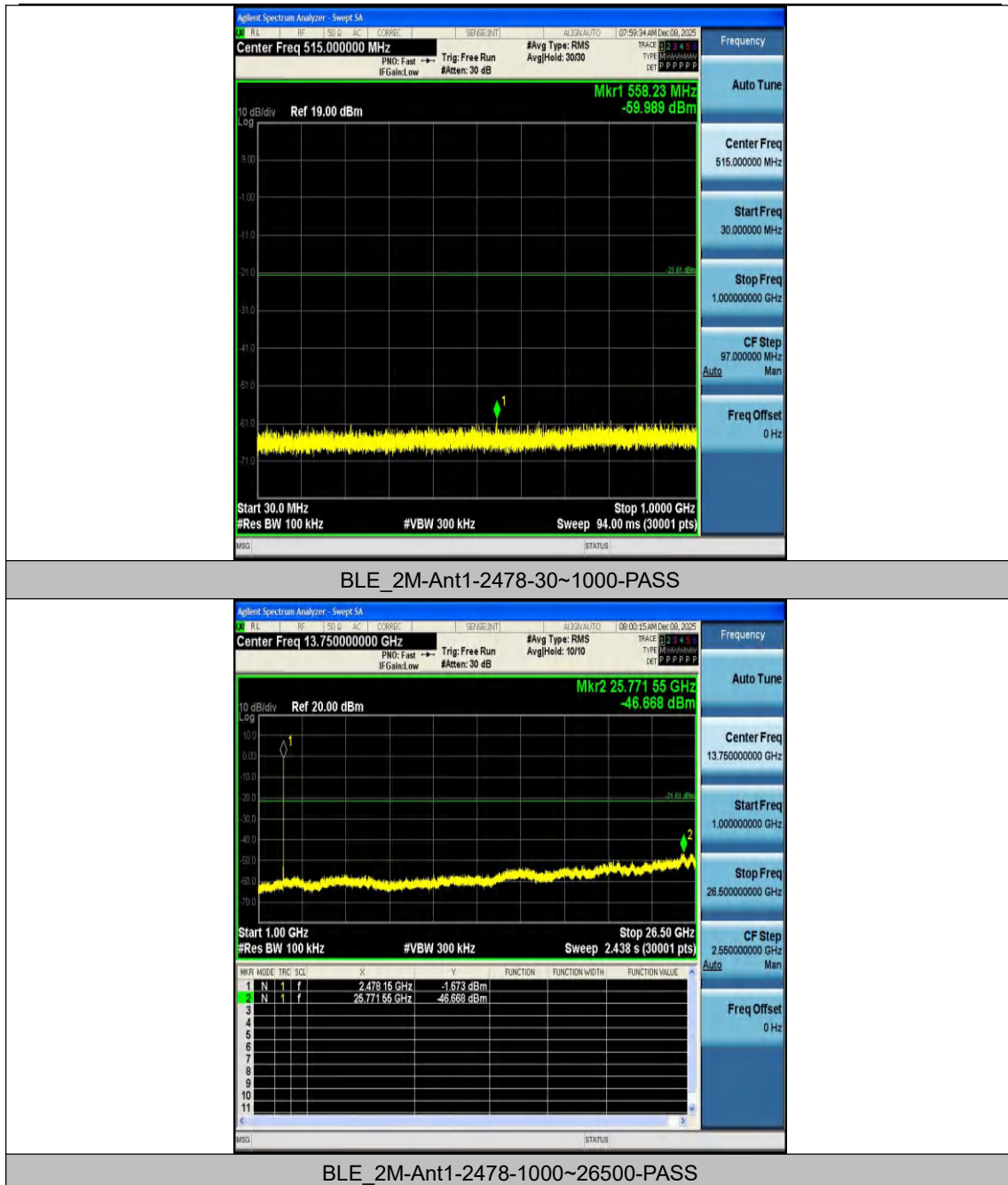
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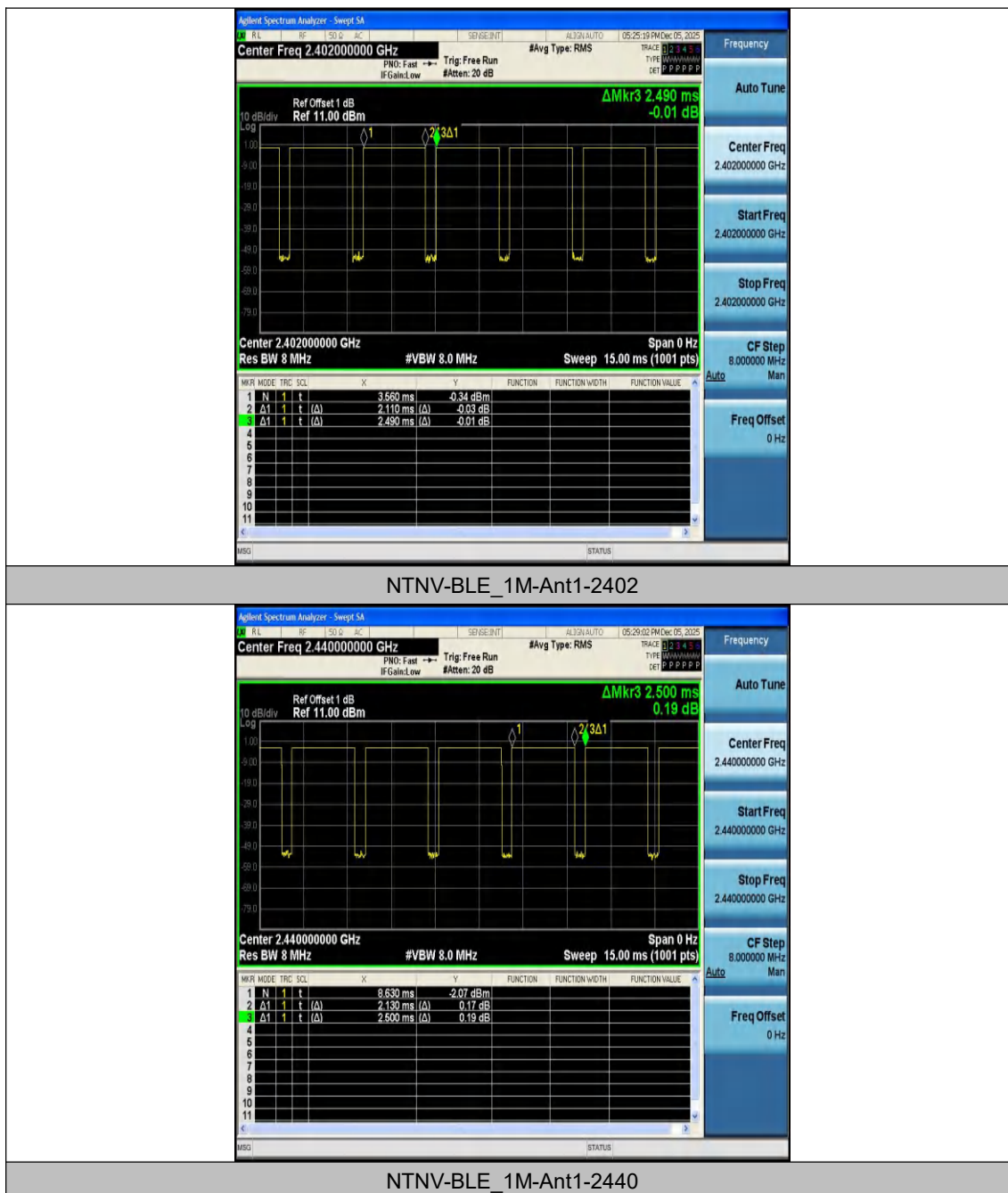
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Appendix G: Duty Cycle

Test Result

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

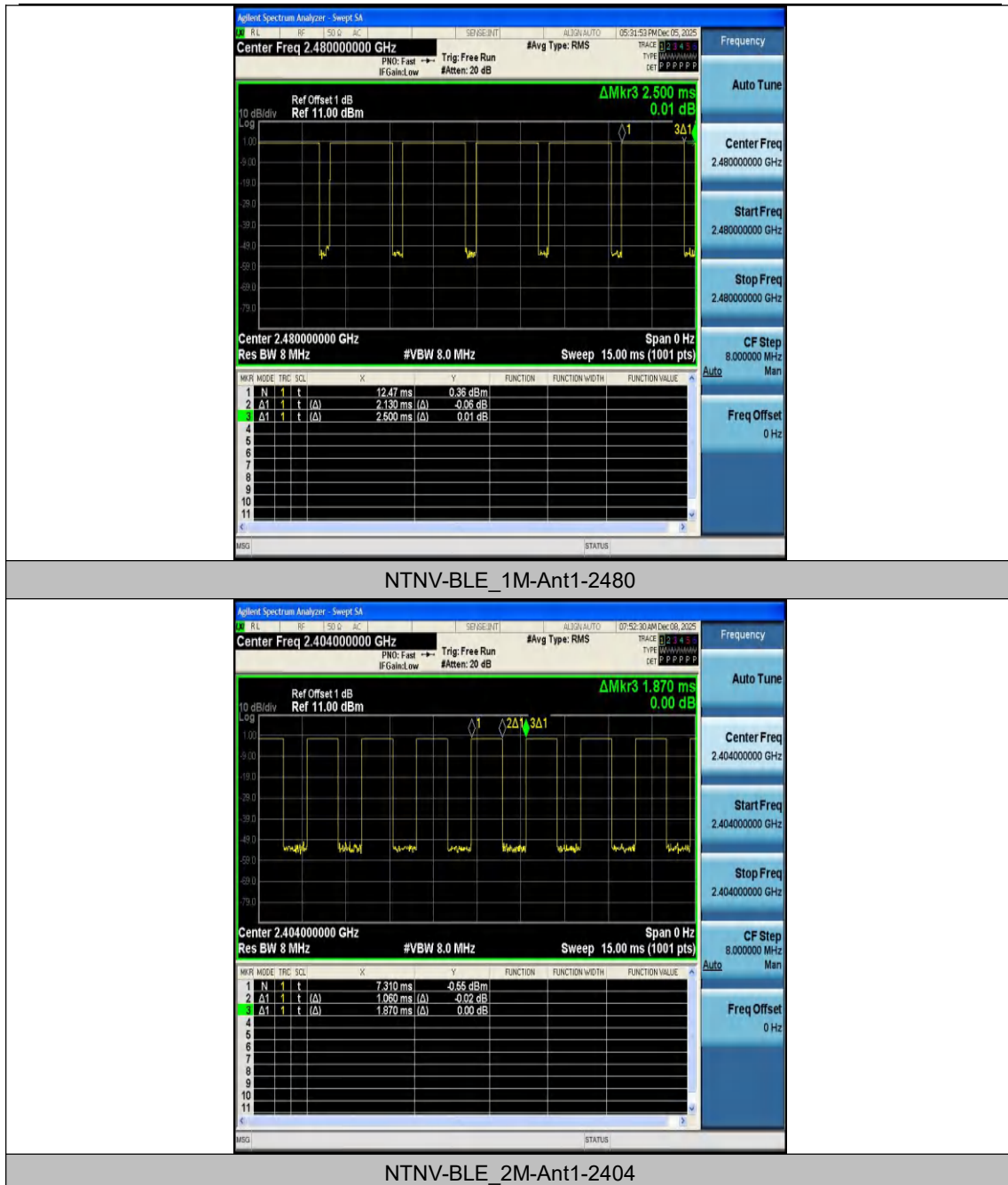
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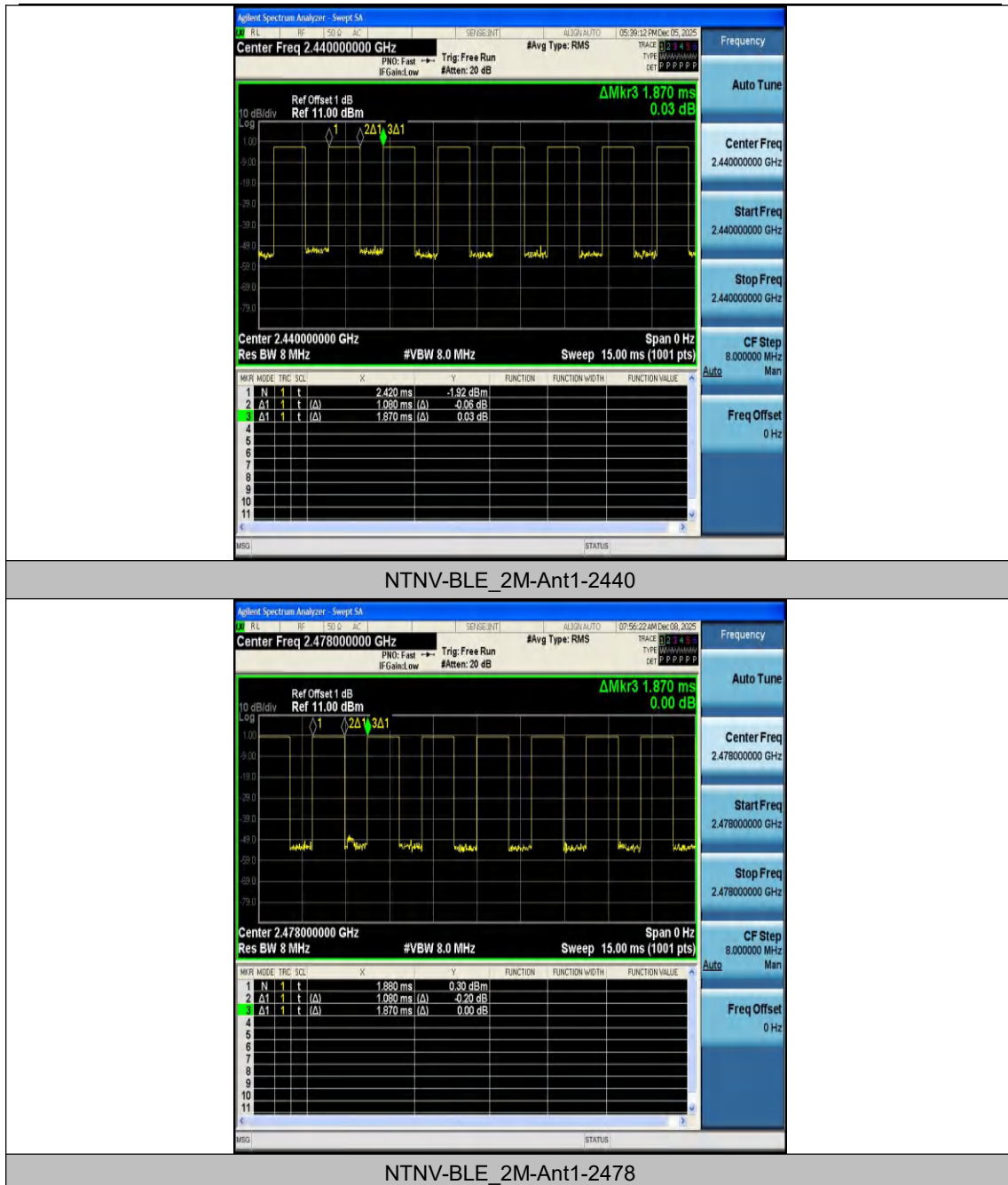


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