

Appendix Test Data

Report No.:	1812C50454612501-01	Test Sample No.:	1-2-2
Start Test Date:	2025-09-29	Finish Test Date:	2025-09-29
Test Engineer:	<i>Alex Reng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	26.2°C	Relative Humidity:	51%
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	0.680	2401.640	2402.320	0.5	PASS
BLE_1M	Ant1	2440	0.692	2439.644	2440.336	0.5	PASS
BLE_1M	Ant1	2480	0.696	2479.624	2480.320	0.5	PASS
BLE_2M	Ant1	2402	1.252	2401.328	2402.580	0.5	PASS
BLE_2M	Ant1	2440	1.200	2439.348	2440.548	0.5	PASS
BLE_2M	Ant1	2480	1.256	2479.328	2480.584	0.5	PASS

Test Graphs



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BLE 1M-Ant1-2480-PASS



BLE 2M-Ant1-2402-PASS

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BLE 2M-Ant1-2440-PASS



BLE 2M-Ant1-2480-PASS

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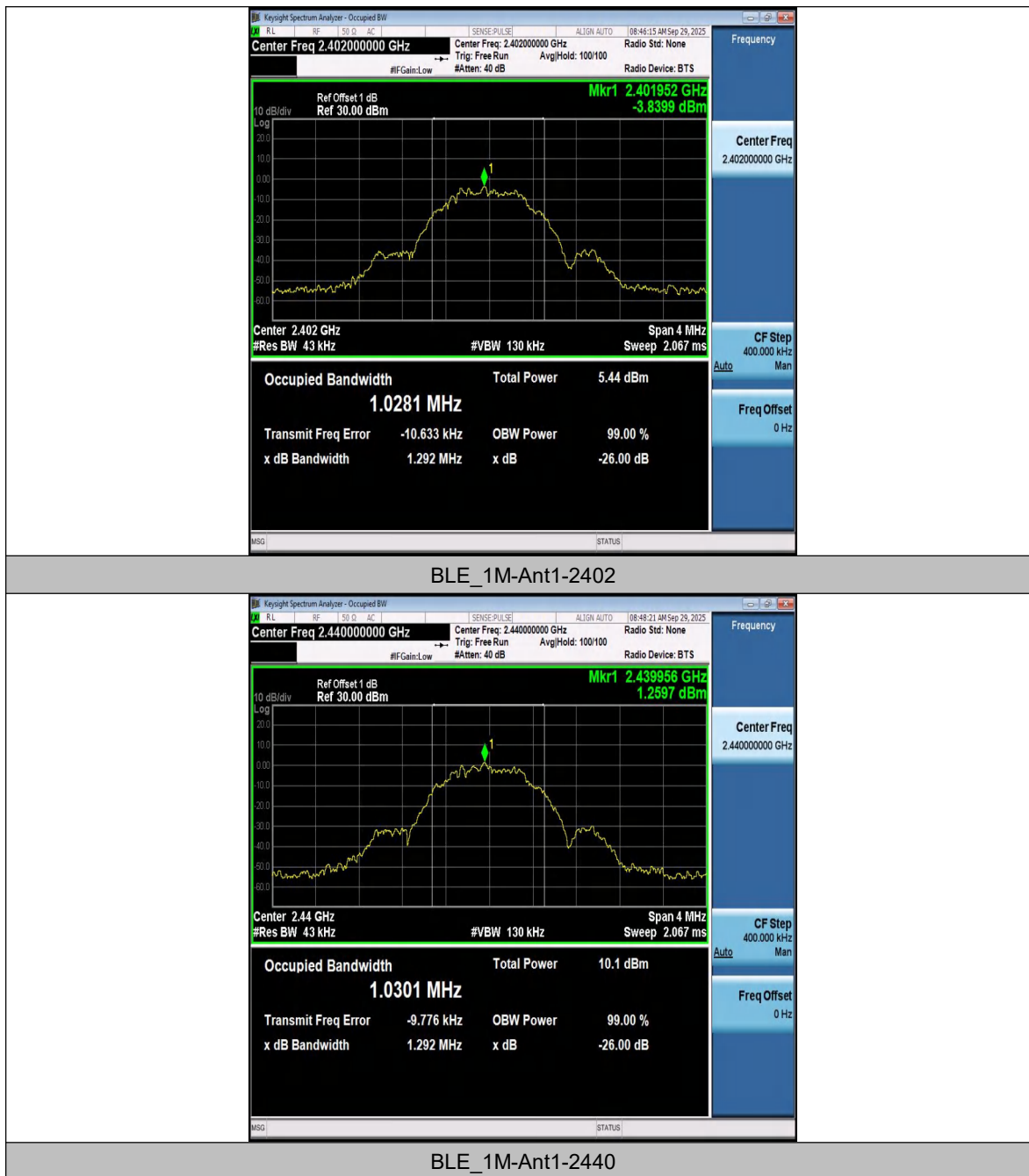
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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0281	2401.4753	2402.5034	---	---
BLE_1M	Ant1	2440	1.0301	2439.4752	2440.5053	---	---
BLE_1M	Ant1	2480	1.0358	2479.4799	2480.5157	---	---
BLE_2M	Ant1	2402	2.0720	2400.9673	2403.0393	---	---
BLE_2M	Ant1	2440	2.0635	2438.9755	2441.0390	---	---
BLE_2M	Ant1	2480	2.0782	2478.9659	2481.0441	---	---

Test Graphs



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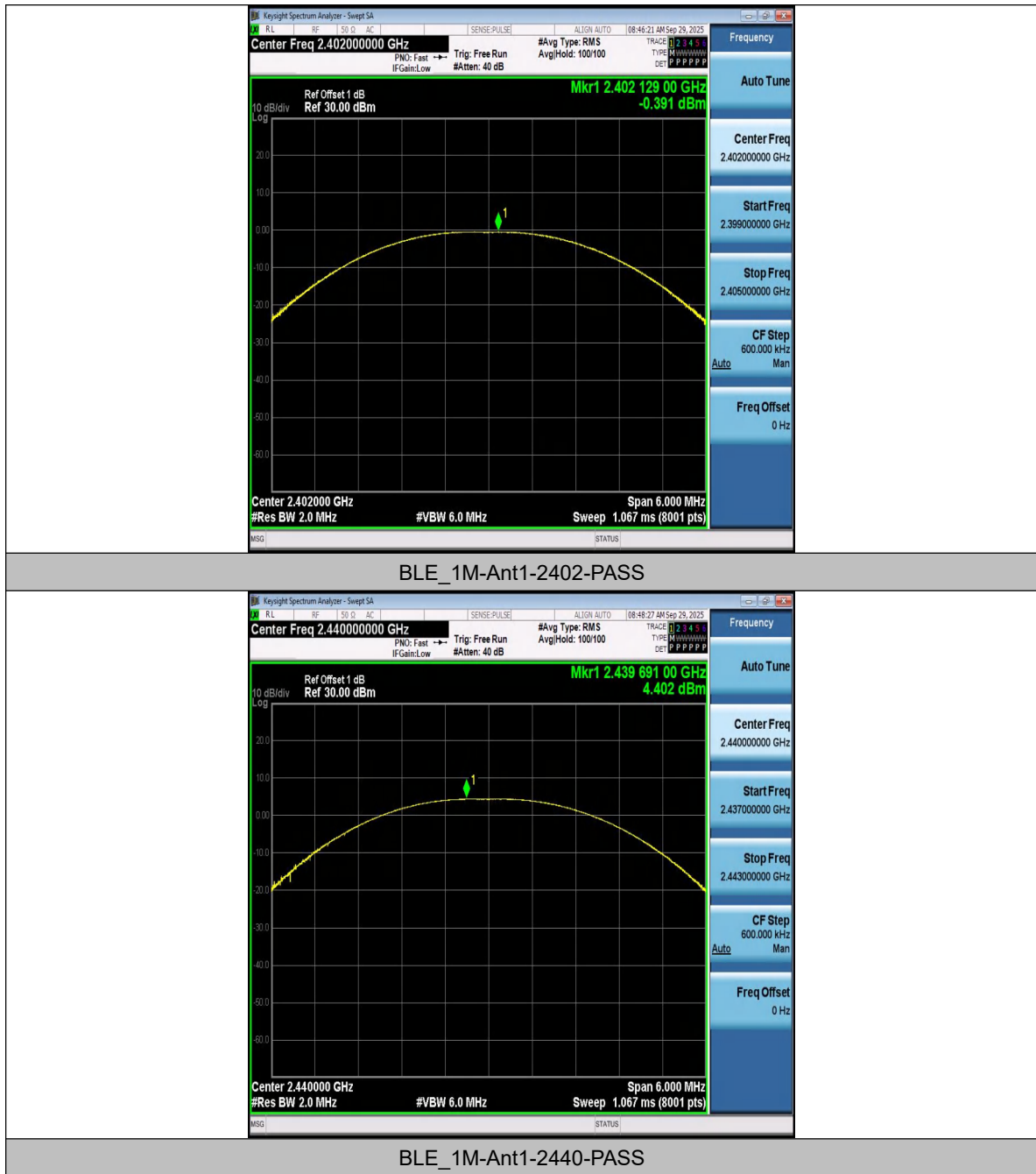
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.39	≤30	PASS
BLE_1M	Ant1	2440	4.40	≤30	PASS
BLE_1M	Ant1	2480	-1.98	≤30	PASS
BLE_2M	Ant1	2402	-0.49	≤30	PASS
BLE_2M	Ant1	2440	4.35	≤30	PASS
BLE_2M	Ant1	2480	-2.03	≤30	PASS

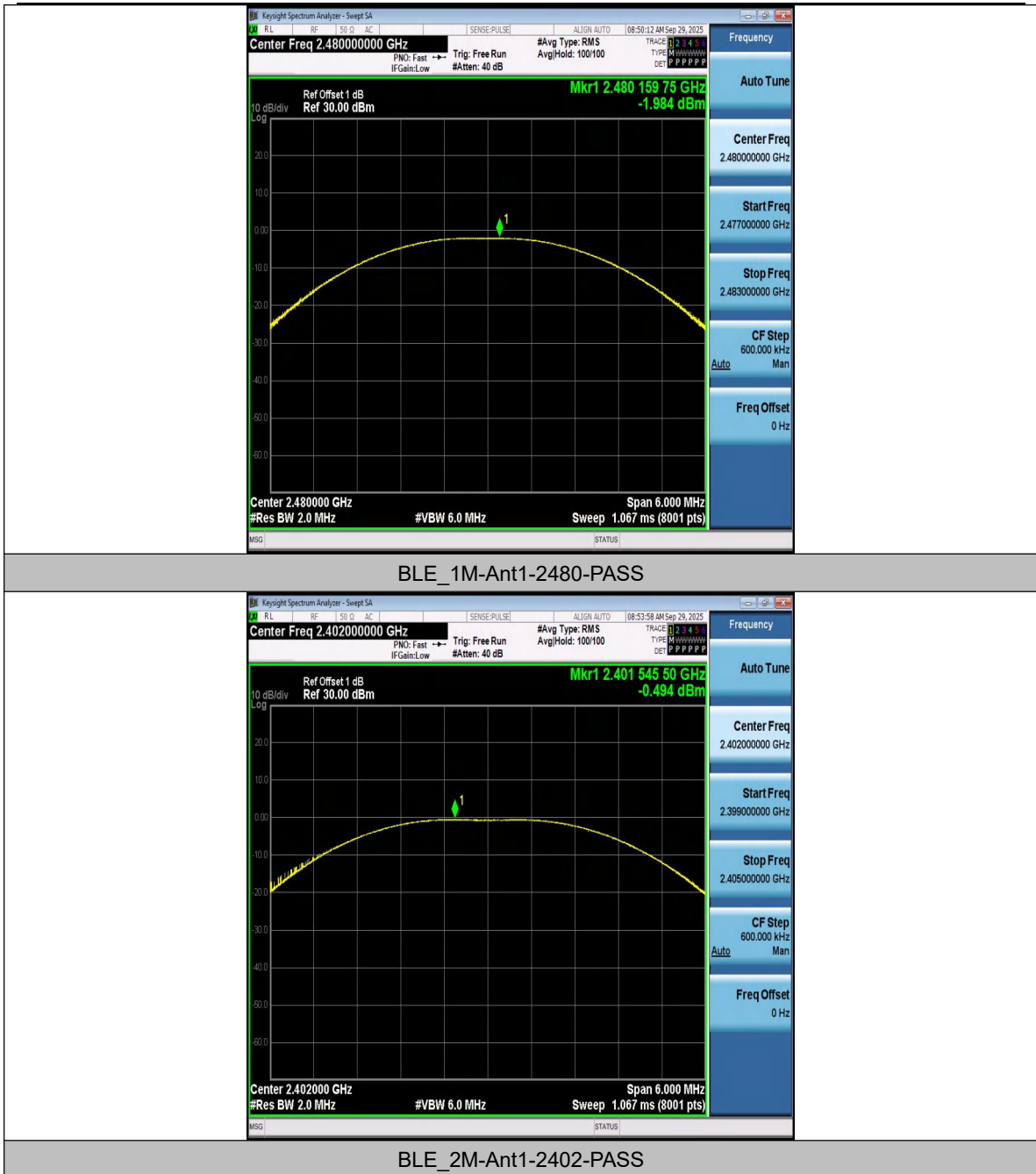
Test Graphs Peak



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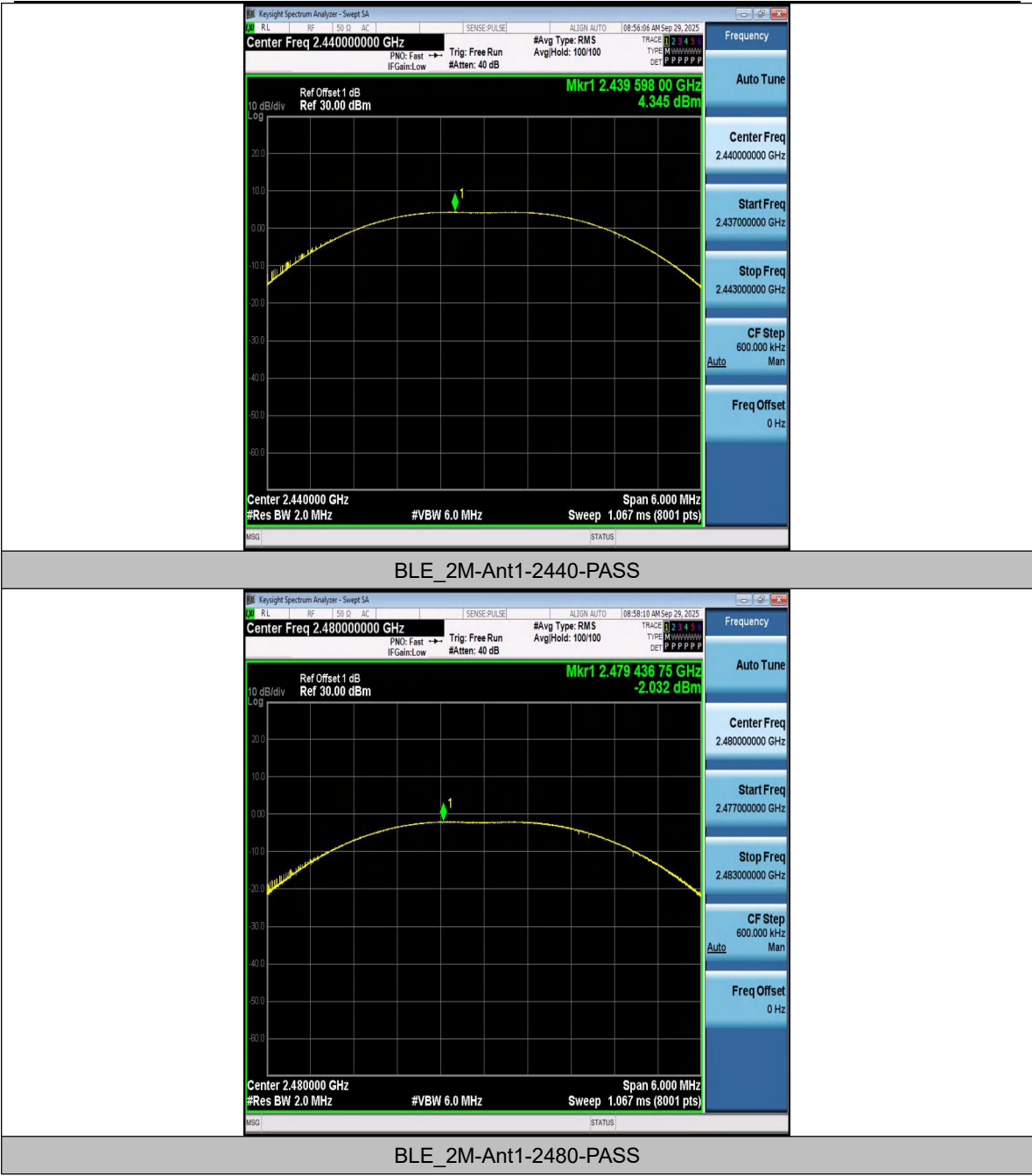
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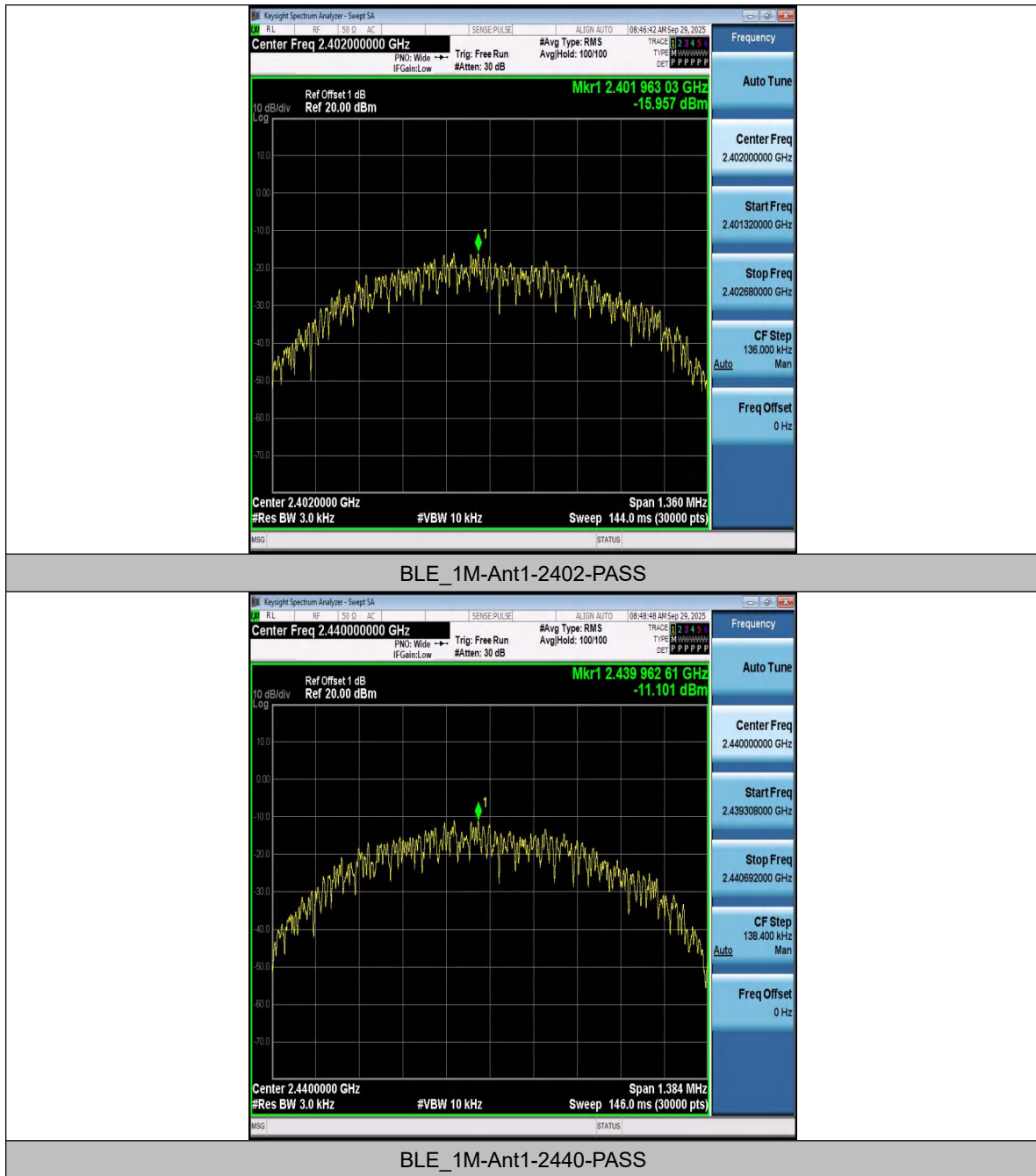
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.96	≤8.00	PASS
BLE_1M	Ant1	2440	-11.10	≤8.00	PASS
BLE_1M	Ant1	2480	-17.58	≤8.00	PASS
BLE_2M	Ant1	2402	-18.12	≤8.00	PASS
BLE_2M	Ant1	2440	-13.19	≤8.00	PASS
BLE_2M	Ant1	2480	-19.71	≤8.00	PASS

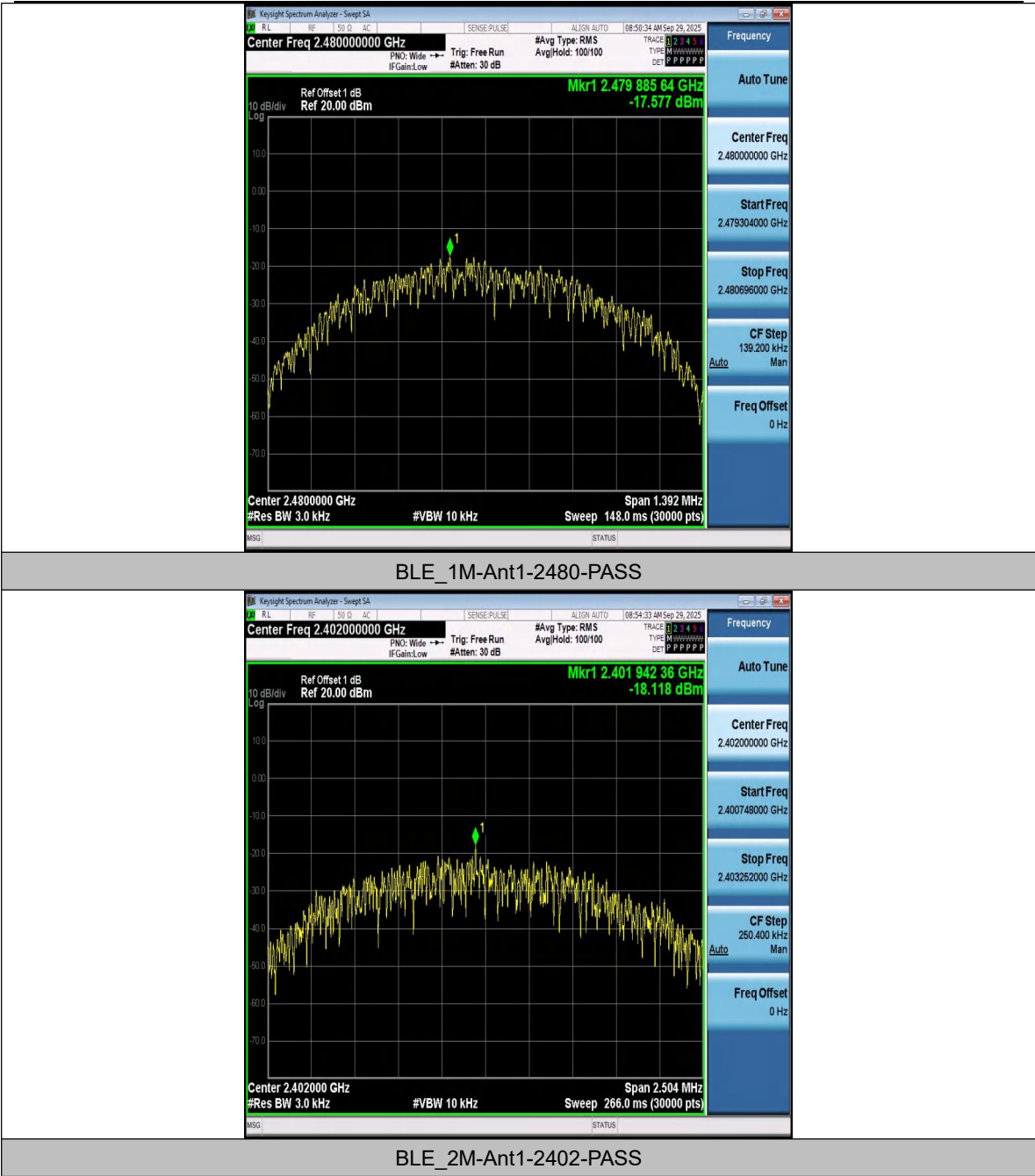
Test Graphs

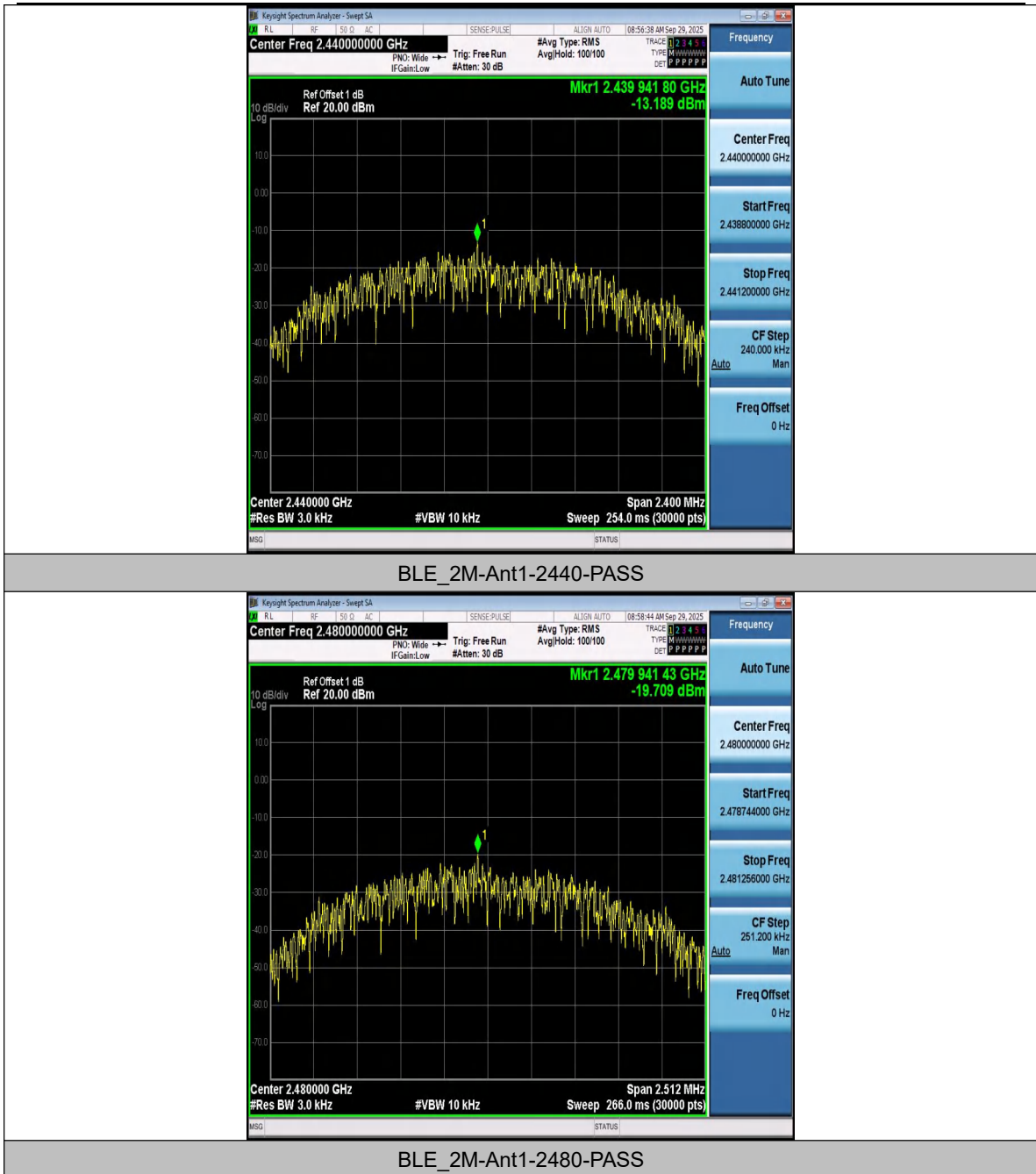


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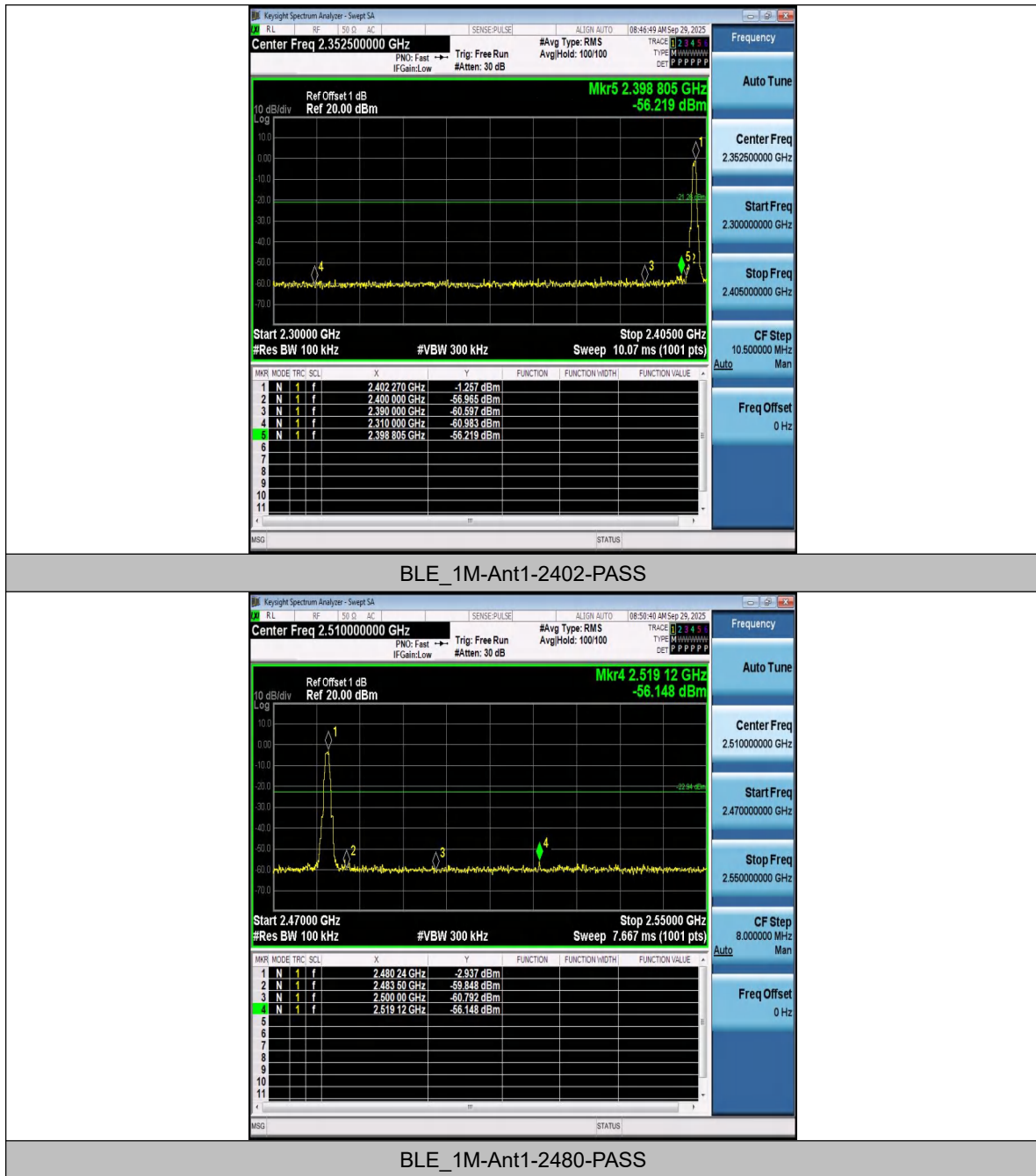
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.26	-56.22	≤-21.26	PASS
BLE_1M	Ant1	High	2480	-2.94	-56.15	≤-22.94	PASS
BLE_2M	Ant1	Low	2402	-2.13	-35.14	≤-22.13	PASS
BLE_2M	Ant1	High	2480	-3.47	-56.79	≤-23.47	PASS

Remark: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.

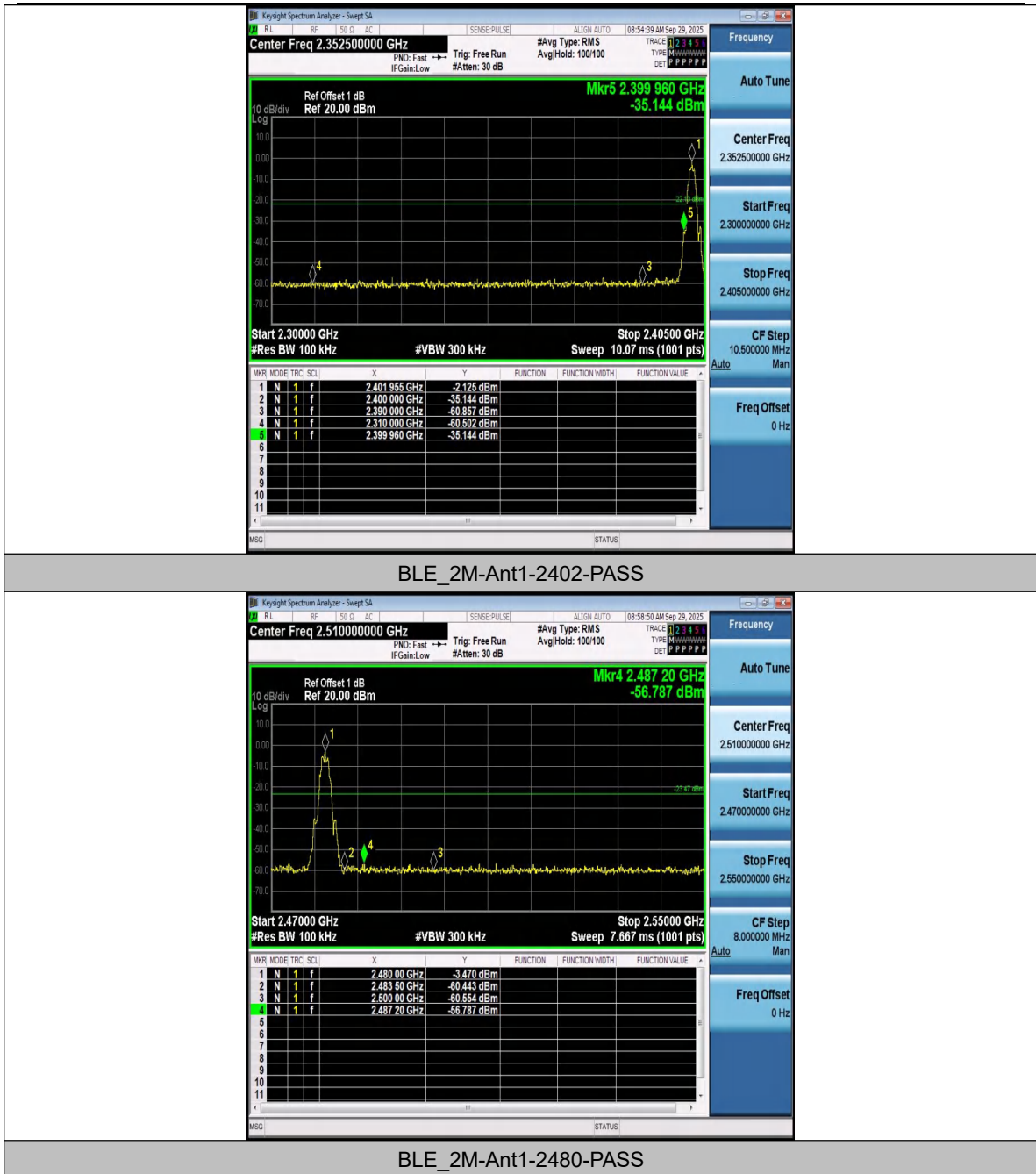
Test Graphs



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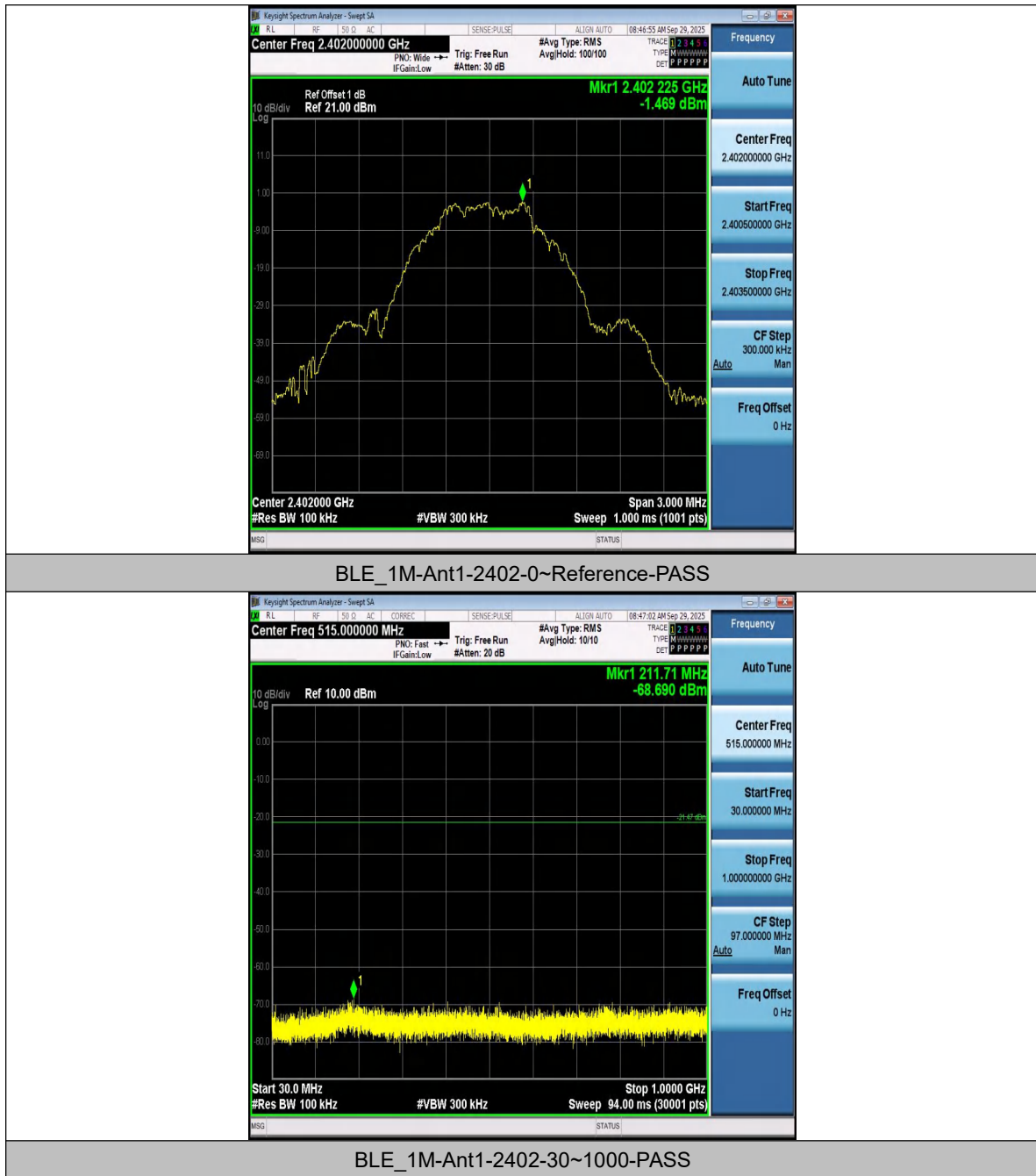
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-1.47	-1.47	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.47	-68.69	≤-21.47	PASS
BLE_1M	Ant1	2402	1000~26500	-1.47	-53.28	≤-21.47	PASS
BLE_1M	Ant1	2440	0~Reference	3.39	3.39	---	PASS
BLE_1M	Ant1	2440	30~1000	3.39	-68.43	≤-16.61	PASS
BLE_1M	Ant1	2440	1000~26500	3.39	-53.58	≤-16.61	PASS
BLE_1M	Ant1	2480	0~Reference	-3.16	-3.16	---	PASS
BLE_1M	Ant1	2480	30~1000	-3.16	-68.87	≤-23.16	PASS
BLE_1M	Ant1	2480	1000~26500	-3.16	-54.2	≤-23.16	PASS
BLE_2M	Ant1	2402	0~Reference	-2.17	-2.17	---	PASS
BLE_2M	Ant1	2402	30~1000	-2.17	-68.09	≤-22.17	PASS
BLE_2M	Ant1	2402	1000~26500	-2.17	-52.9	≤-22.17	PASS
BLE_2M	Ant1	2440	0~Reference	2.89	2.89	---	PASS
BLE_2M	Ant1	2440	30~1000	2.89	-68.35	≤-17.11	PASS
BLE_2M	Ant1	2440	1000~26500	2.89	-53.39	≤-17.11	PASS
BLE_2M	Ant1	2480	0~Reference	-3.69	-3.69	---	PASS
BLE_2M	Ant1	2480	30~1000	-3.69	-67.89	≤-23.69	PASS
BLE_2M	Ant1	2480	1000~26500	-3.69	-53.88	≤-23.69	PASS

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

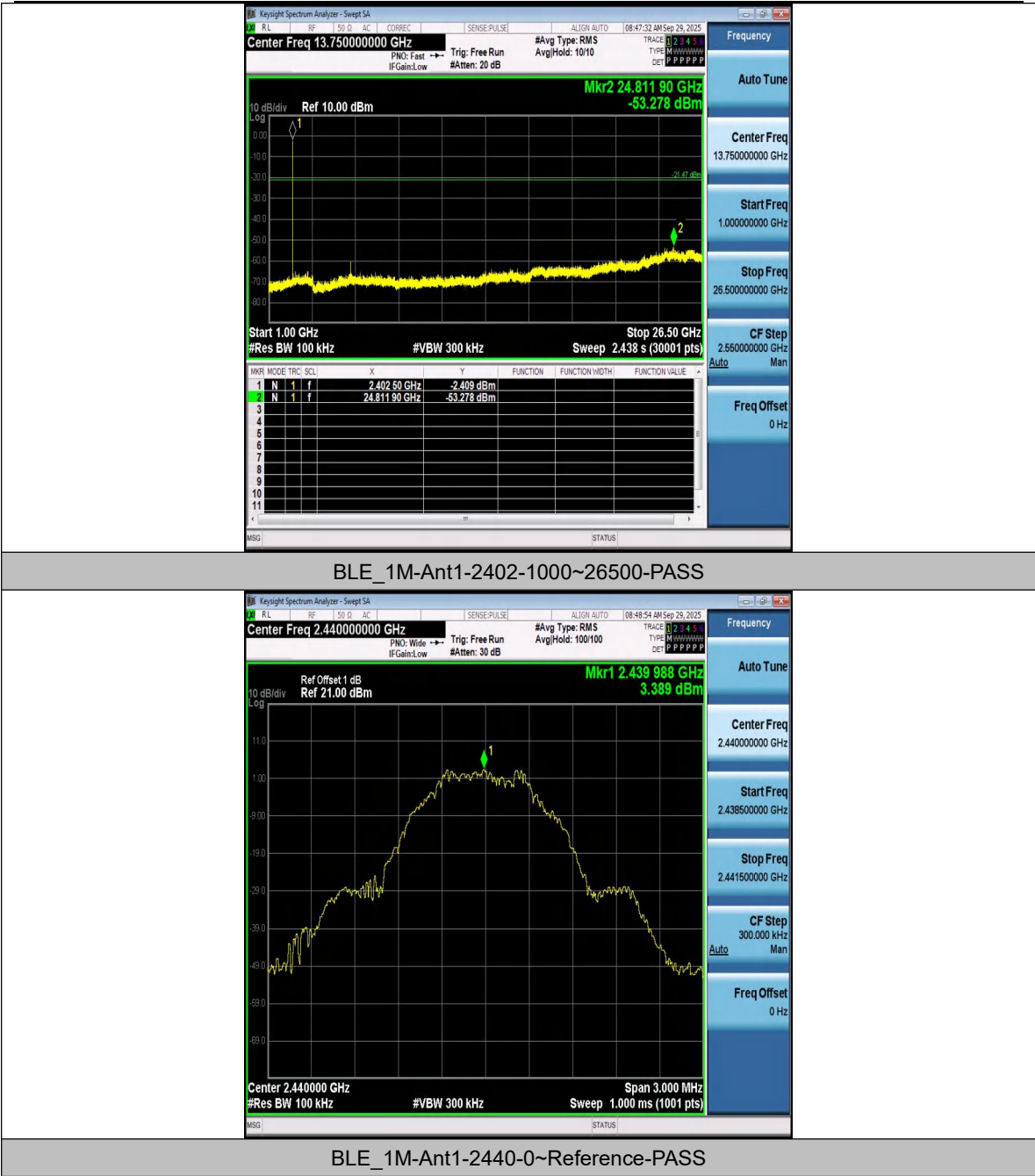
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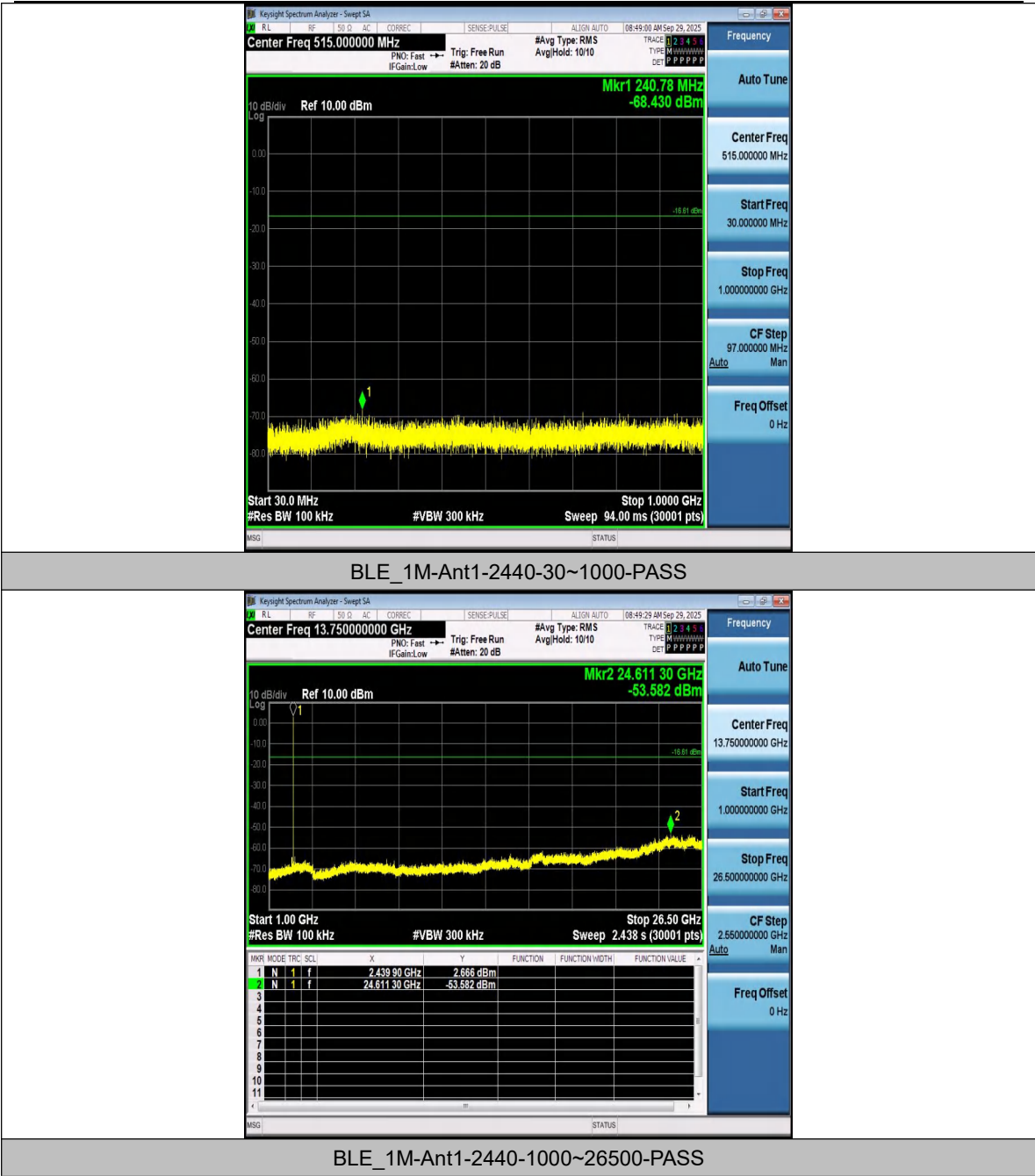


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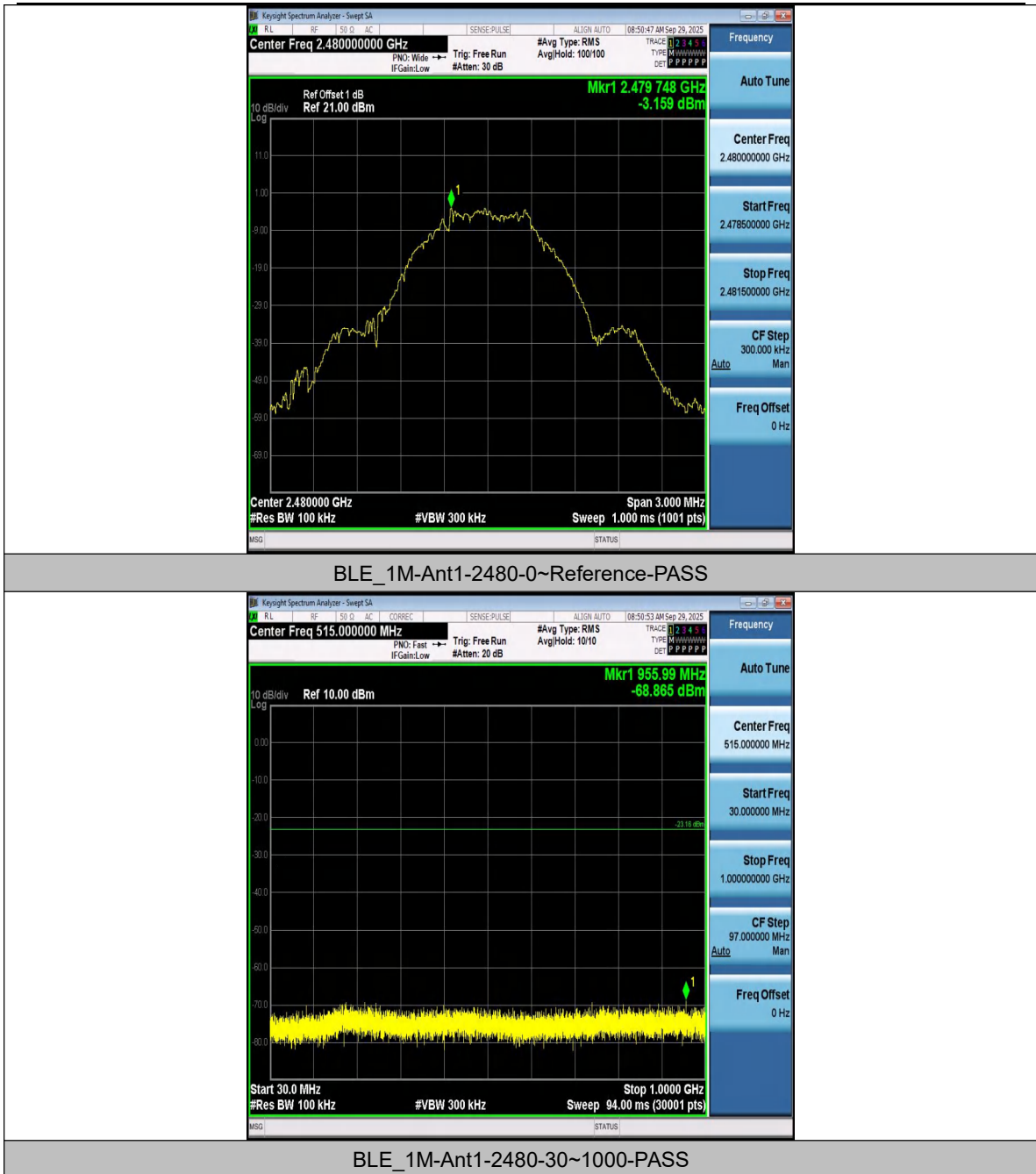




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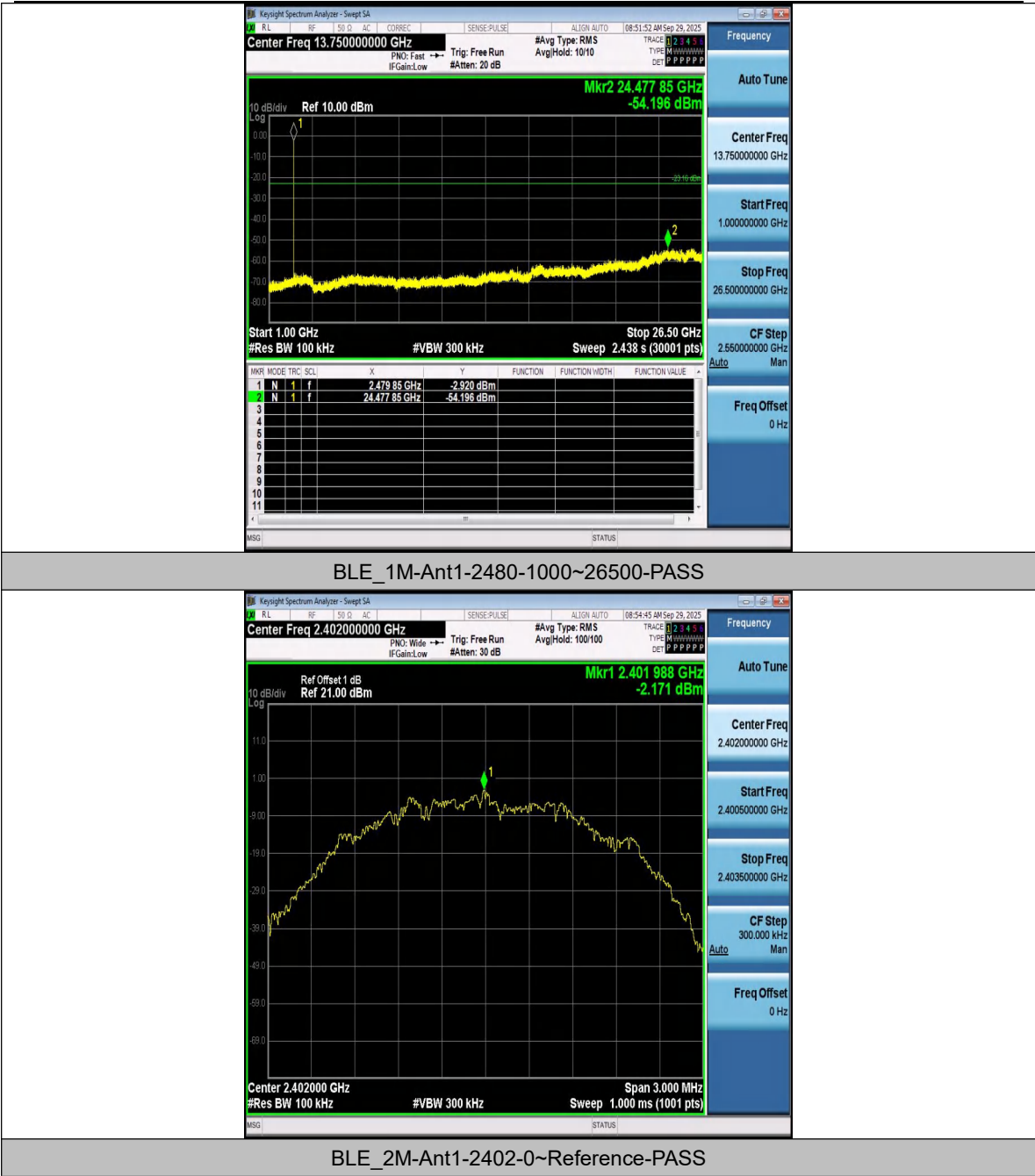
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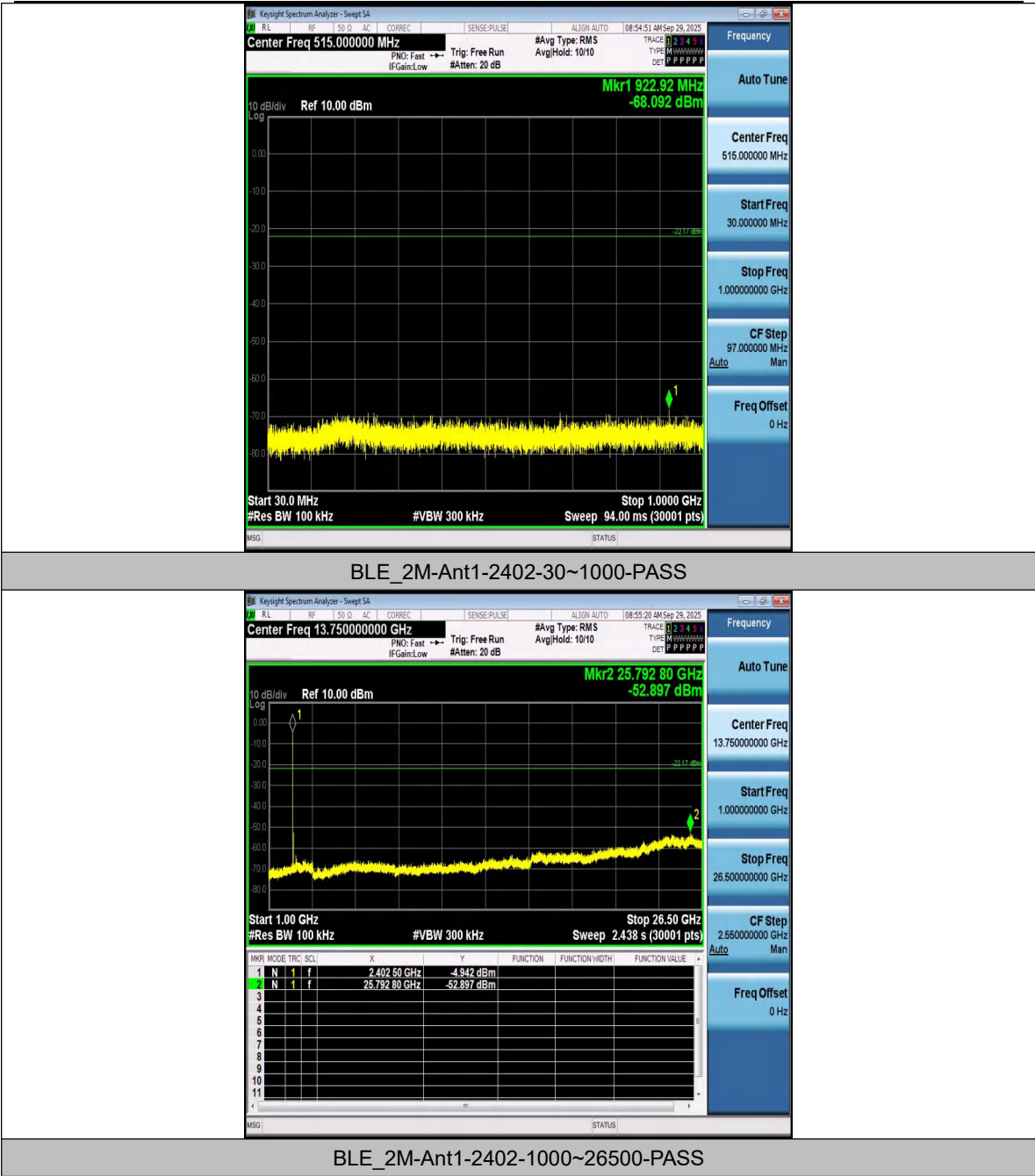
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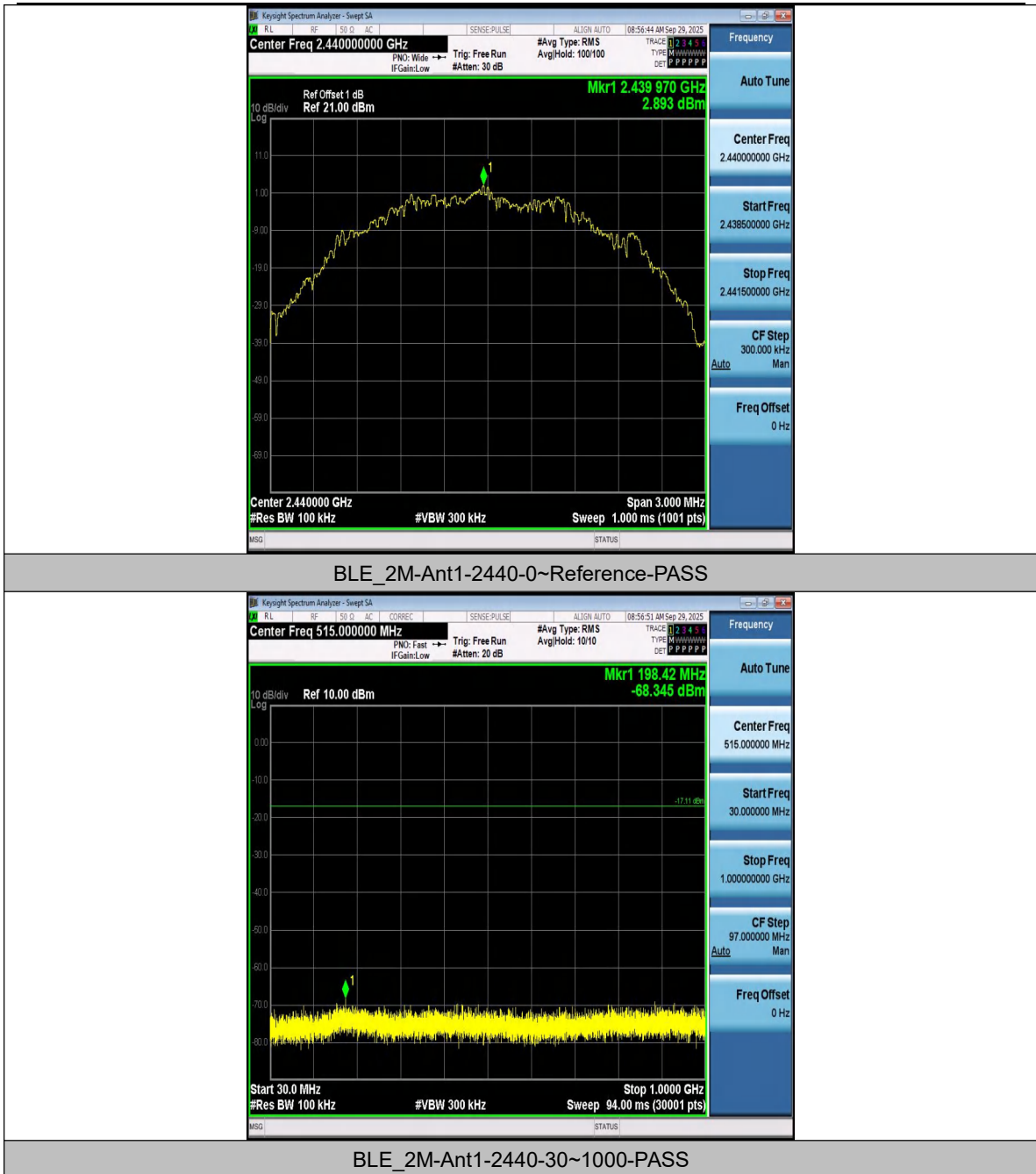
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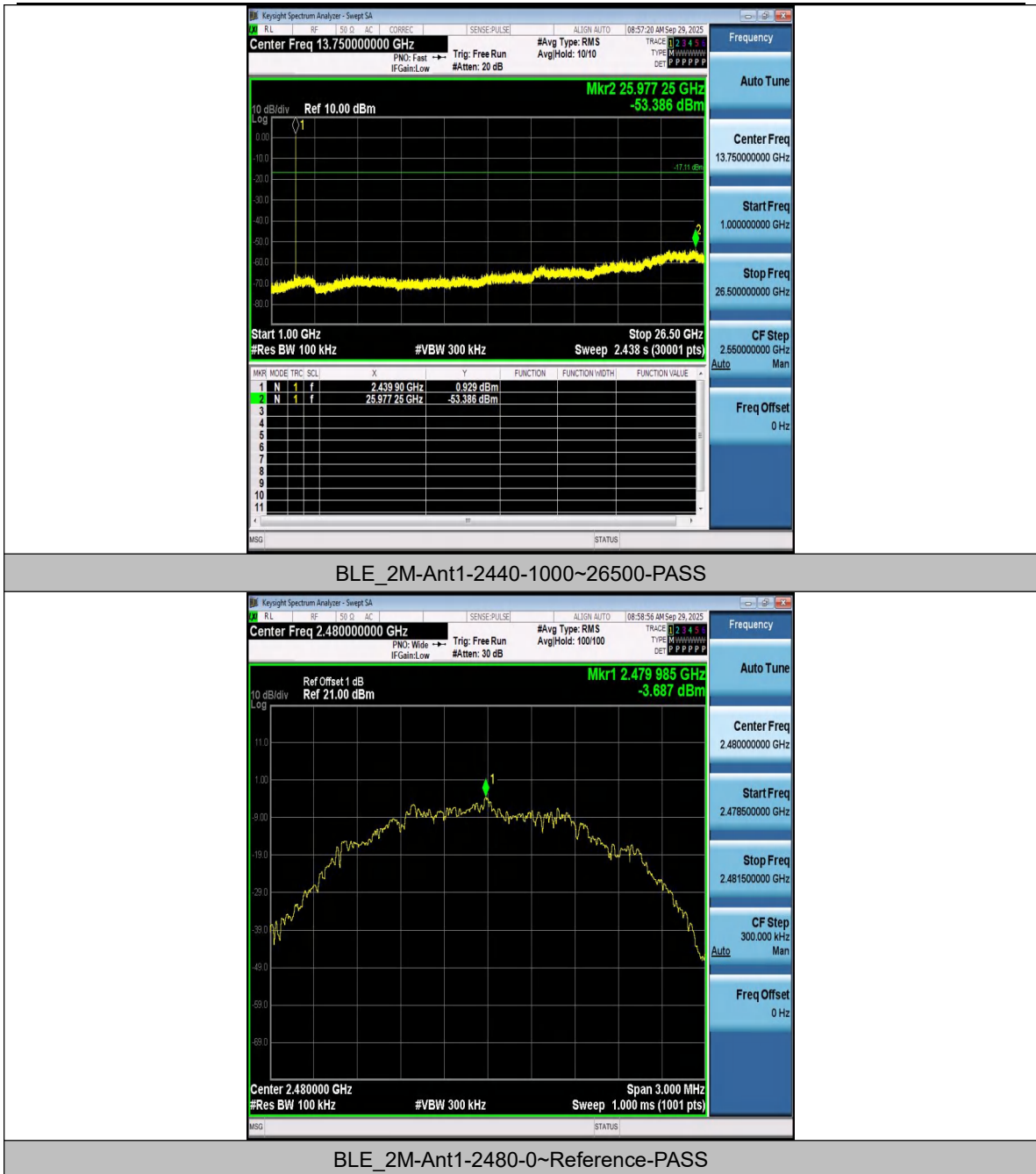
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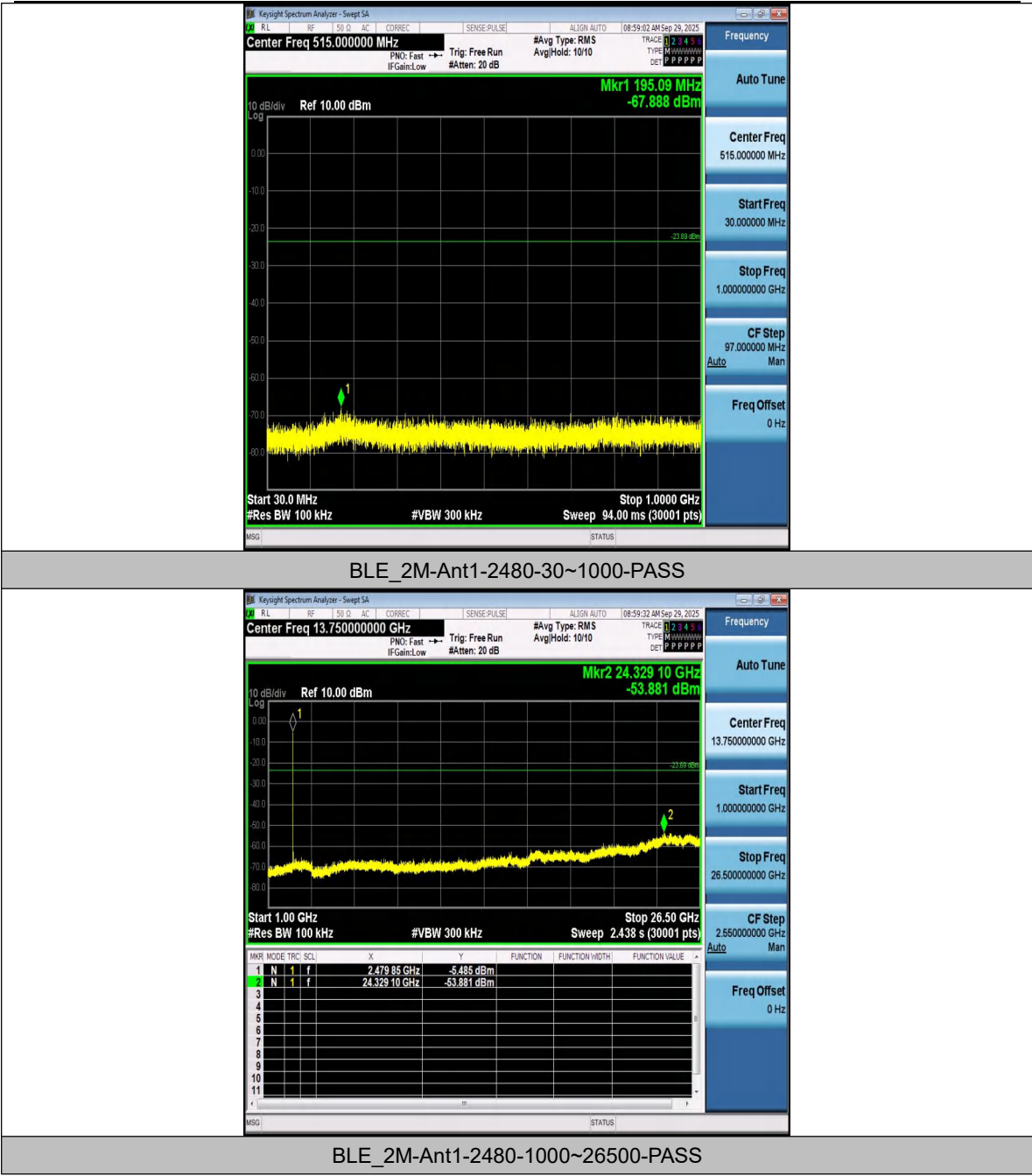
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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.37	1.32	28.03	5.52
BLE_1M	Ant1	2440	0.37	1.32	28.03	5.52
BLE_1M	Ant1	2480	0.37	1.32	28.03	5.52
BLE_2M	Ant1	2402	0.19	0.71	26.76	5.73
BLE_2M	Ant1	2440	0.19	0.70	27.14	5.66
BLE_2M	Ant1	2480	0.19	0.71	26.76	5.73

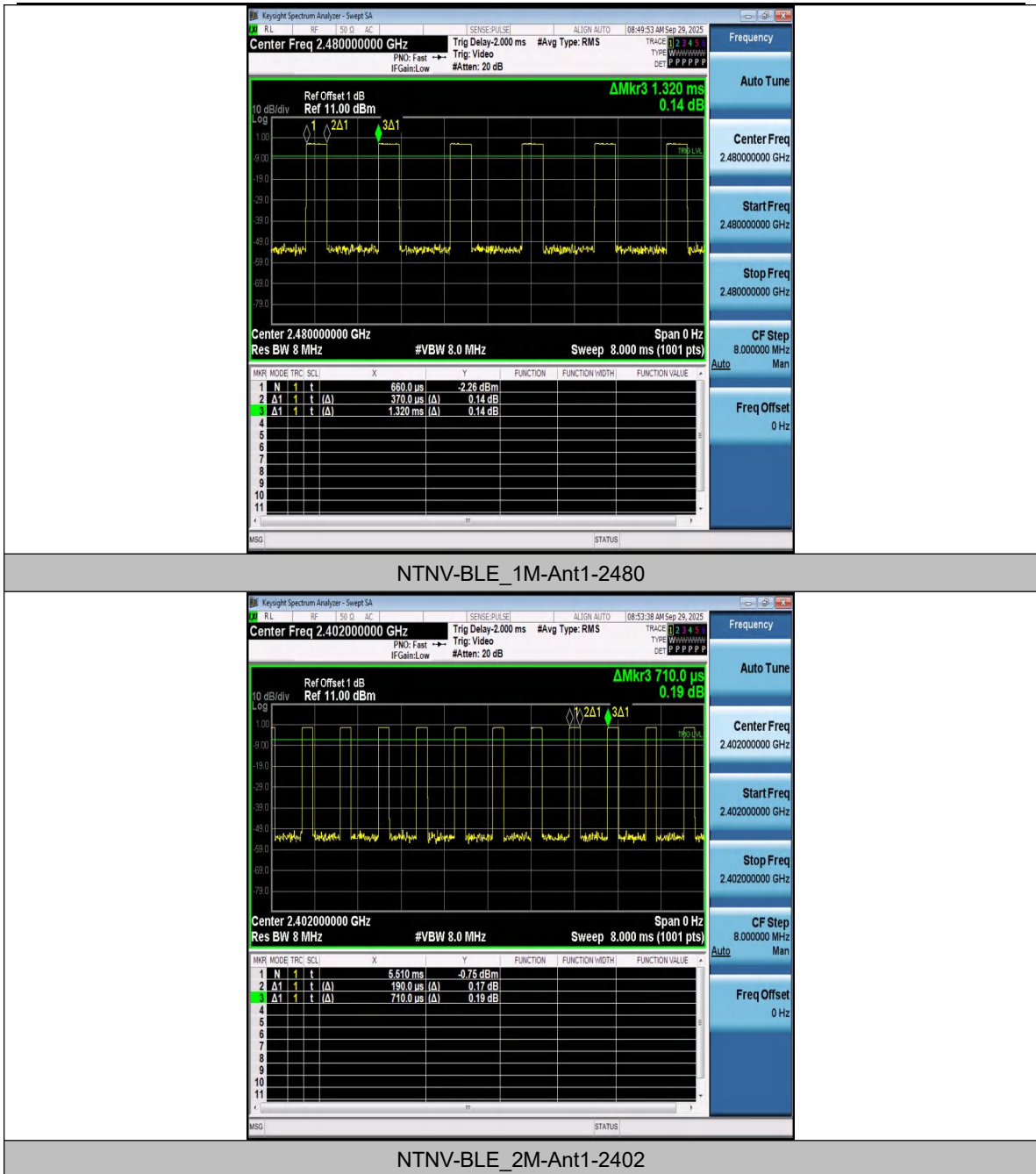
Test Graphs



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