

Appendix Test Data

Report No.:	1818C50047812501	Test Sample No.:	1-2-2
Start Test Date:	2025.04.21	Finish Test Date:	2025.04.21
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	26.2°C	Relative Humidity:	50%
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	0.692	2401.668	2402.360	0.5	PASS
BLE_1M	Ant1	2440	0.668	2439.672	2440.340	0.5	PASS
BLE_1M	Ant1	2480	0.716	2479.648	2480.364	0.5	PASS
BLE_2M	Ant1	2402	1.220	2401.348	2402.568	0.5	PASS
BLE_2M	Ant1	2440	1.236	2439.356	2440.592	0.5	PASS
BLE_2M	Ant1	2480	1.080	2479.456	2480.536	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	1.0374	2401.4930	2402.5304	---	---
BLE_1M	Ant1	2440	1.0303	2439.4951	2440.5254	---	---
BLE_1M	Ant1	2480	1.0387	2479.4929	2480.5316	---	---
BLE_2M	Ant1	2402	2.0635	2400.9951	2403.0586	---	---
BLE_2M	Ant1	2440	2.0570	2438.9928	2441.0498	---	---
BLE_2M	Ant1	2480	2.0680	2478.9847	2481.0527	---	---

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Test Graphs



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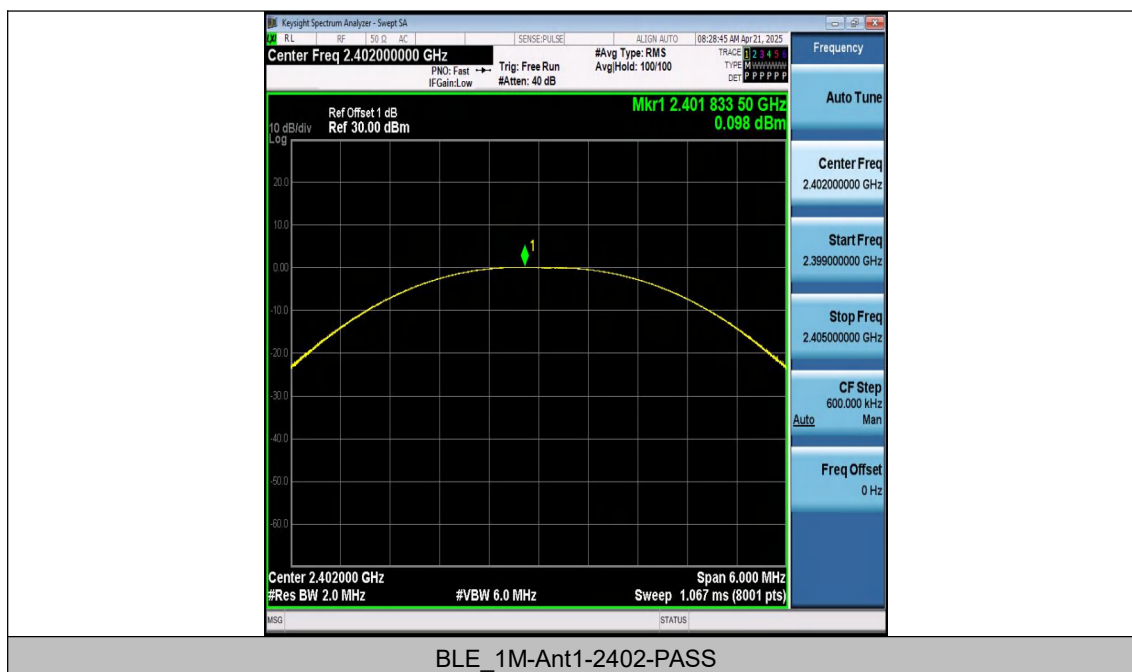


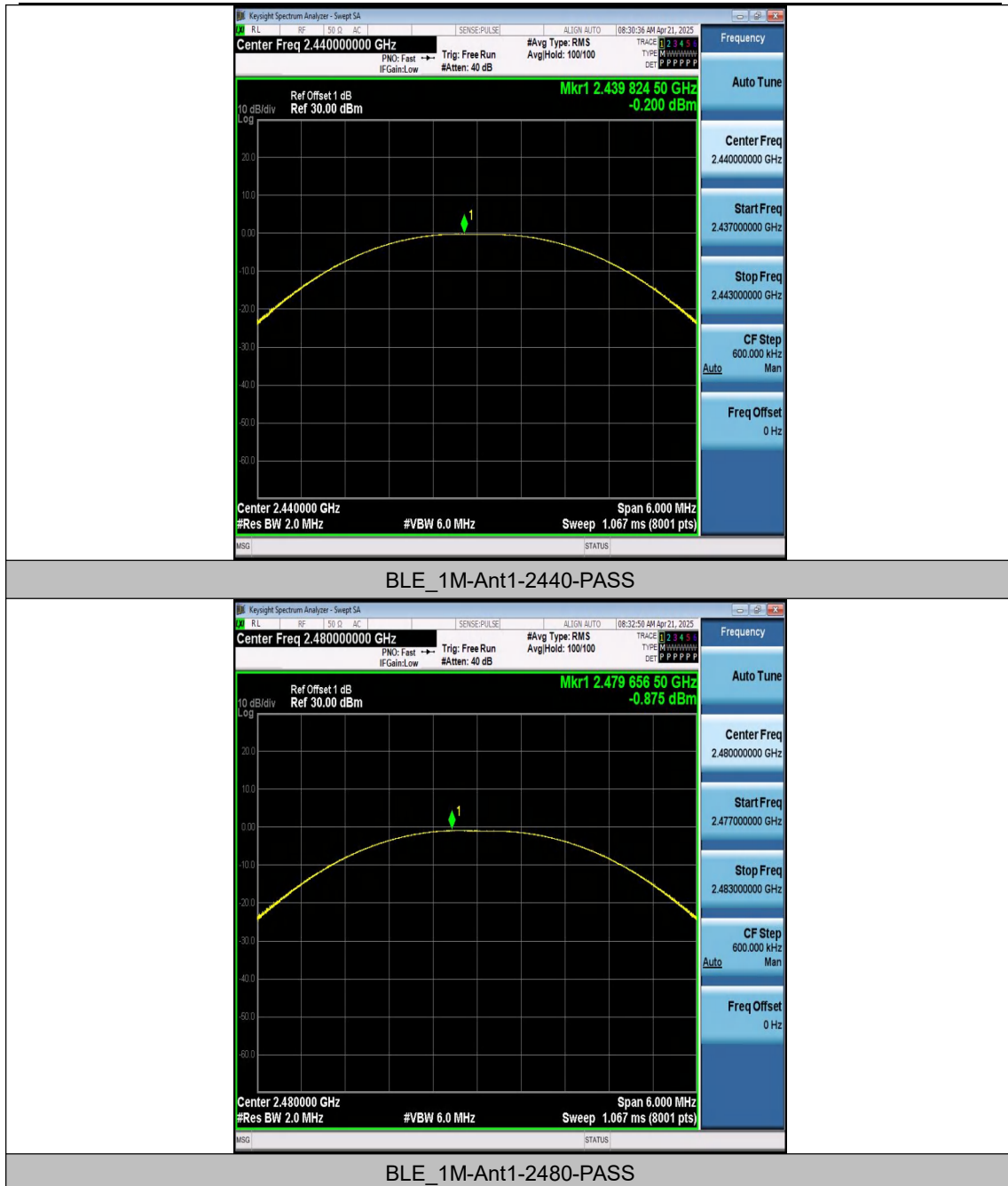
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.10	≤30	PASS
BLE_1M	Ant1	2440	-0.20	≤30	PASS
BLE_1M	Ant1	2480	-0.88	≤30	PASS
BLE_2M	Ant1	2402	0.23	≤30	PASS
BLE_2M	Ant1	2440	0.01	≤30	PASS
BLE_2M	Ant1	2480	-0.63	≤30	PASS

Test Graphs Peak

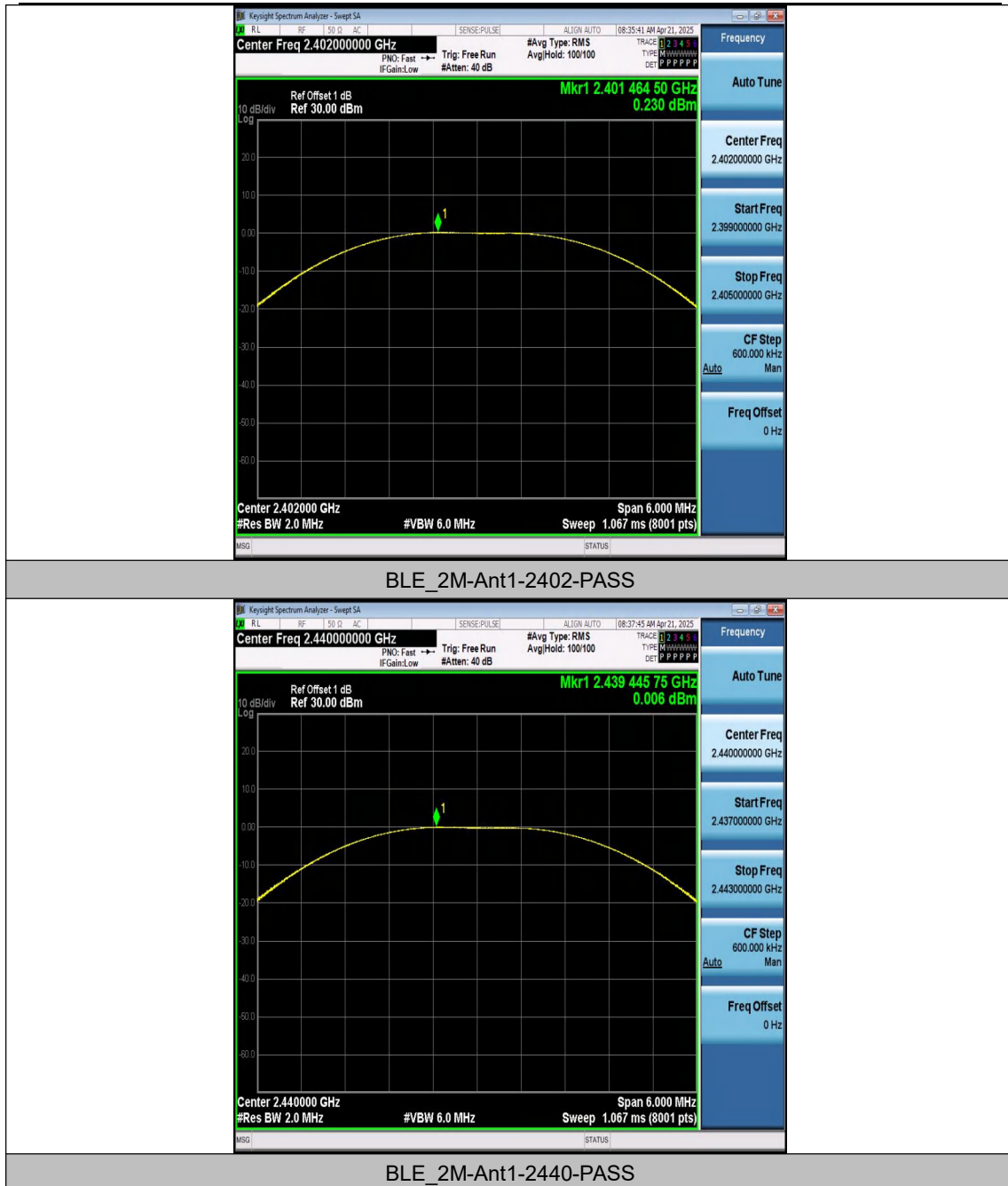




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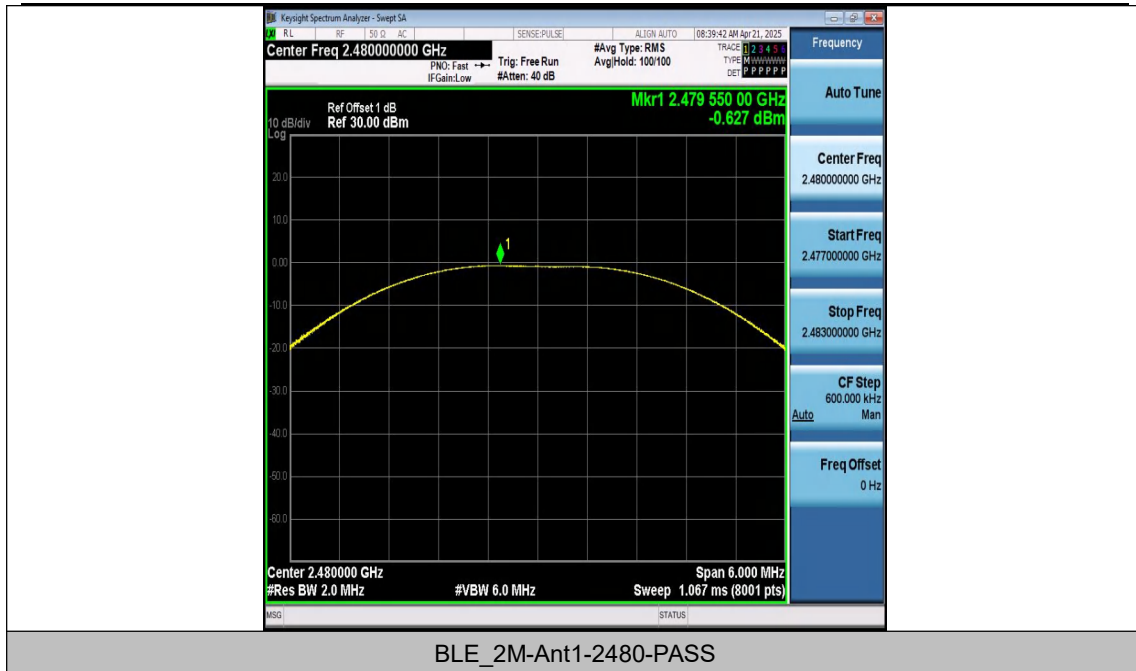
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Appendix D: Maximum power spectral density

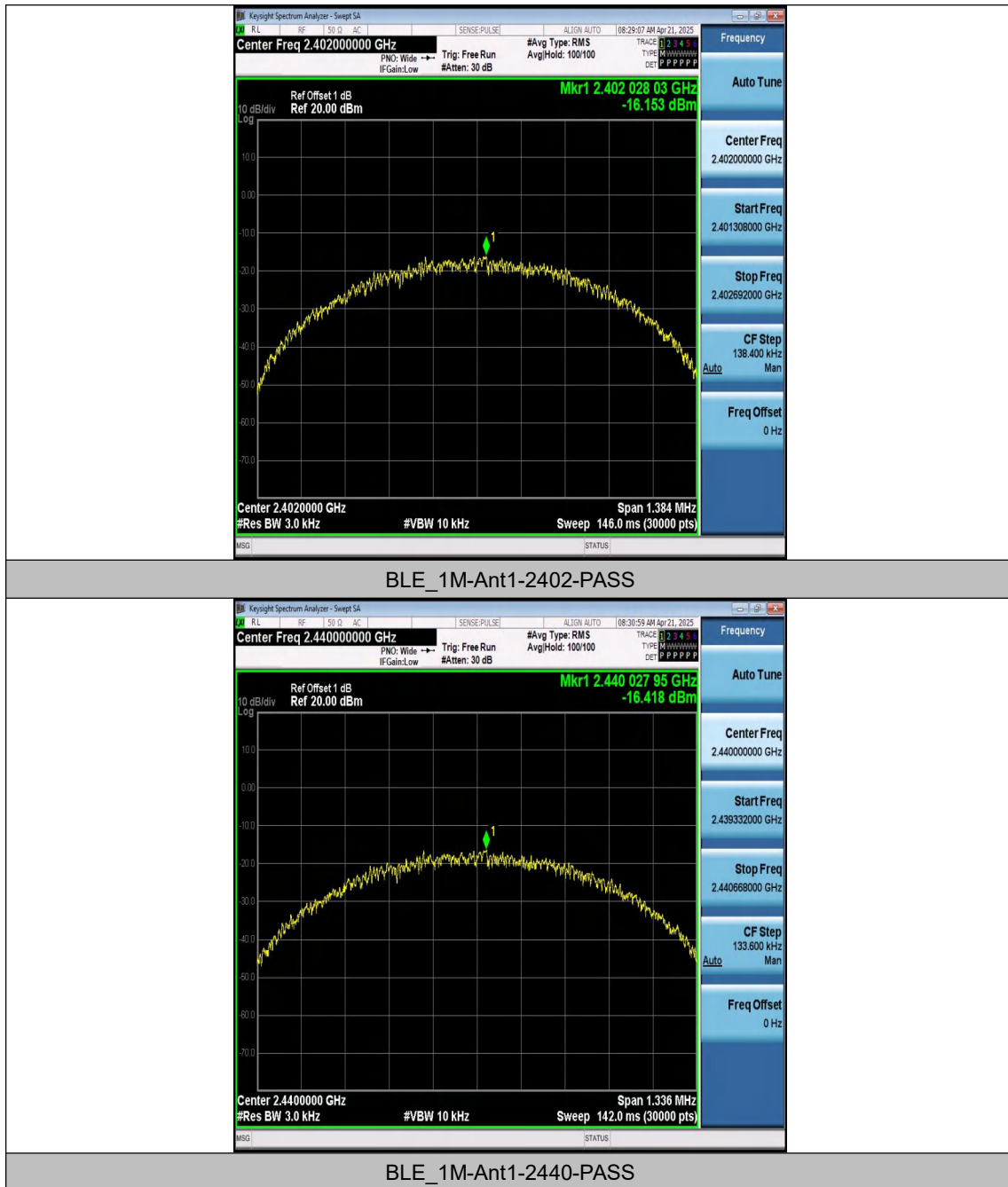
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.15	≤8.00	PASS
BLE_1M	Ant1	2440	-16.42	≤8.00	PASS
BLE_1M	Ant1	2480	-17.05	≤8.00	PASS
BLE_2M	Ant1	2402	-18.43	≤8.00	PASS
BLE_2M	Ant1	2440	-18.46	≤8.00	PASS
BLE_2M	Ant1	2480	-19.01	≤8.00	PASS

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



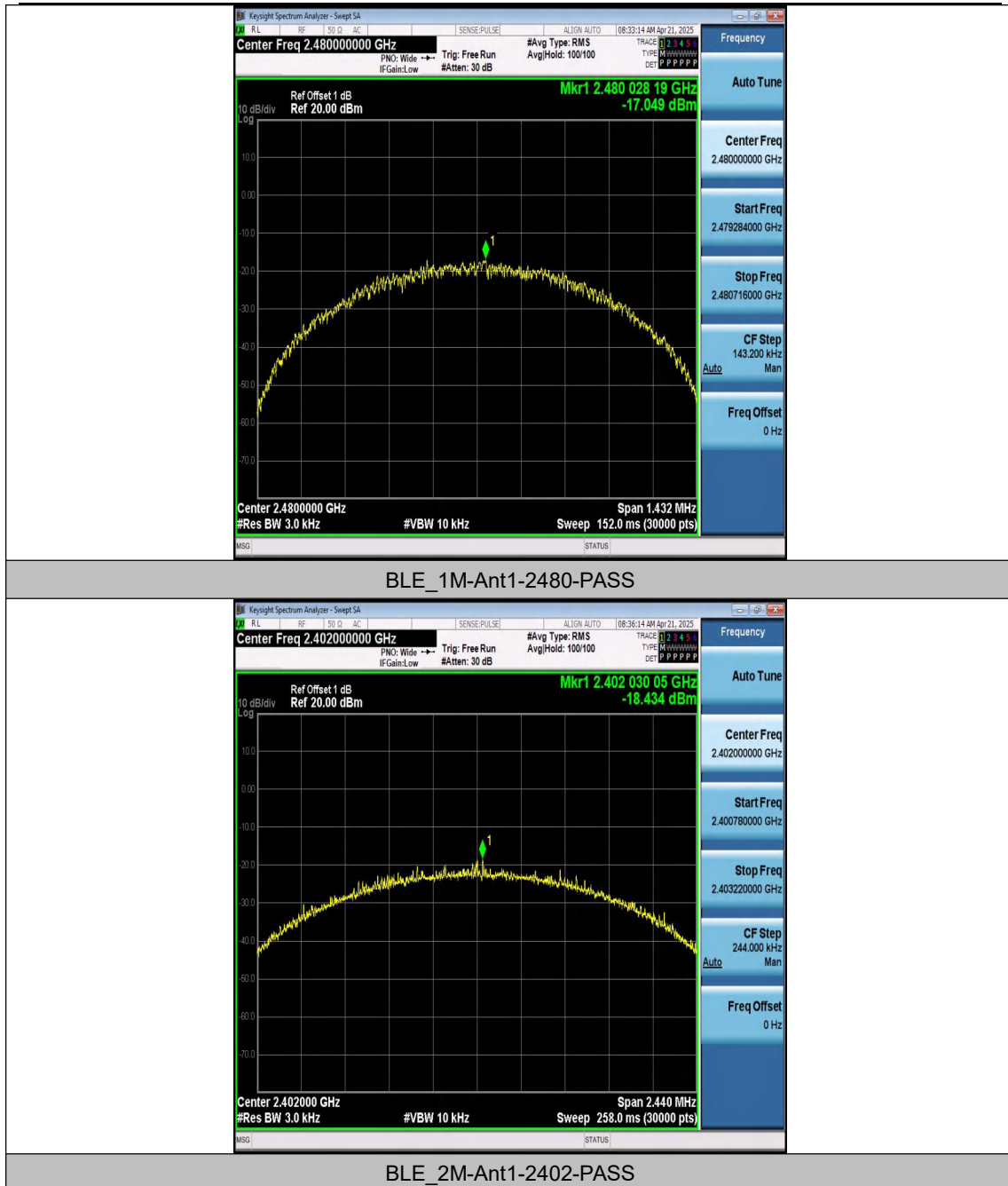
Test Graphs



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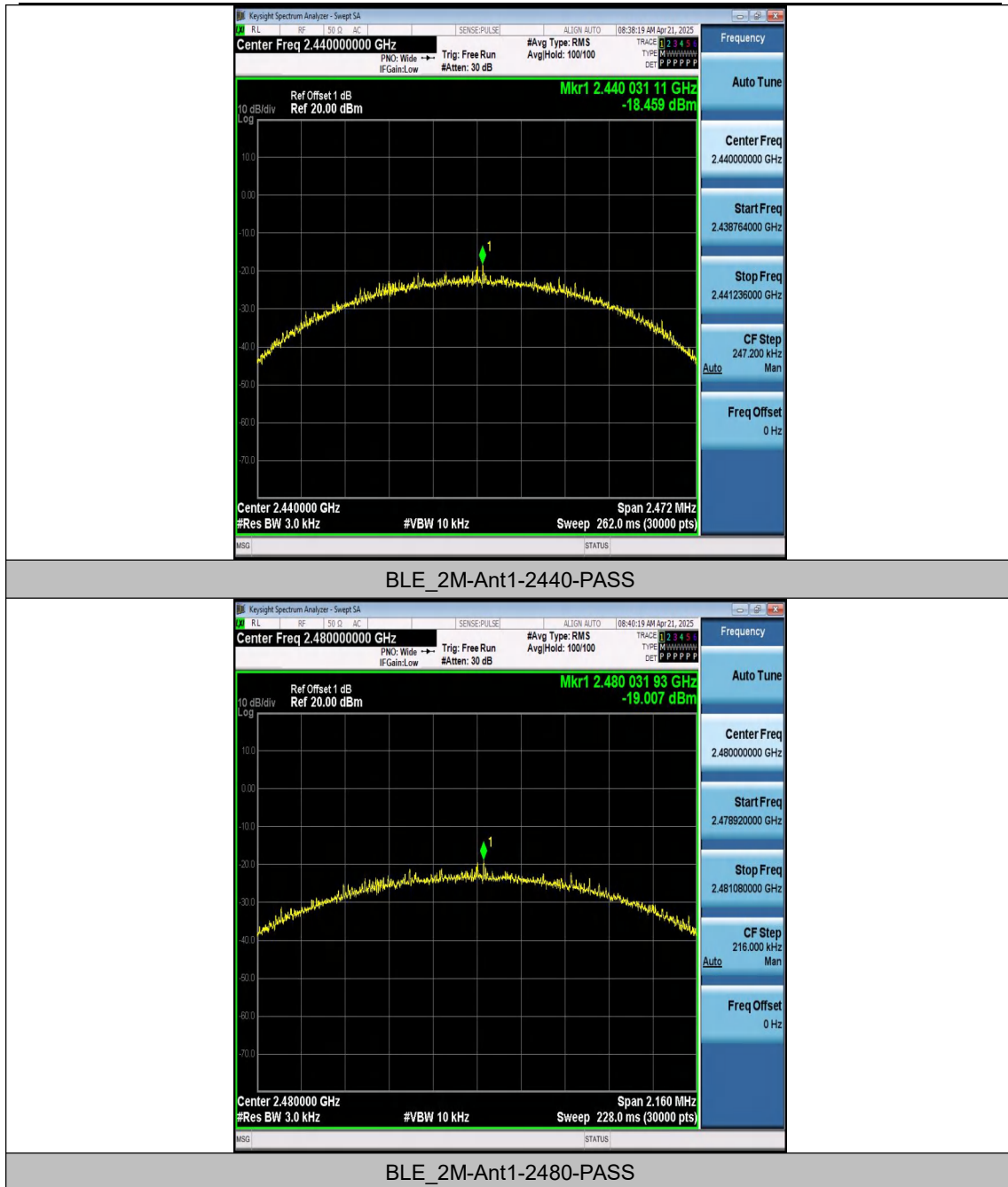
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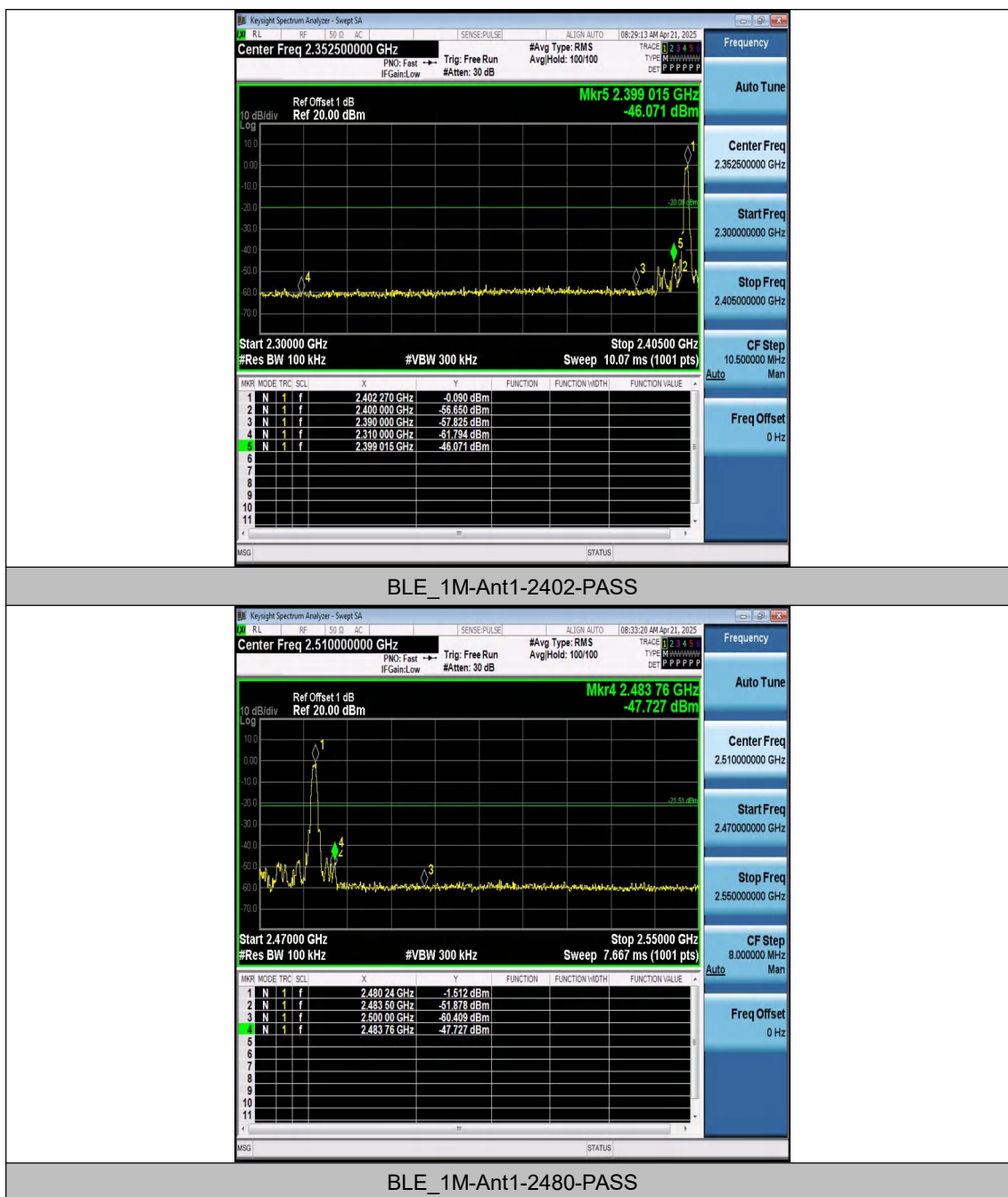
Appendix E: Band edge measurements

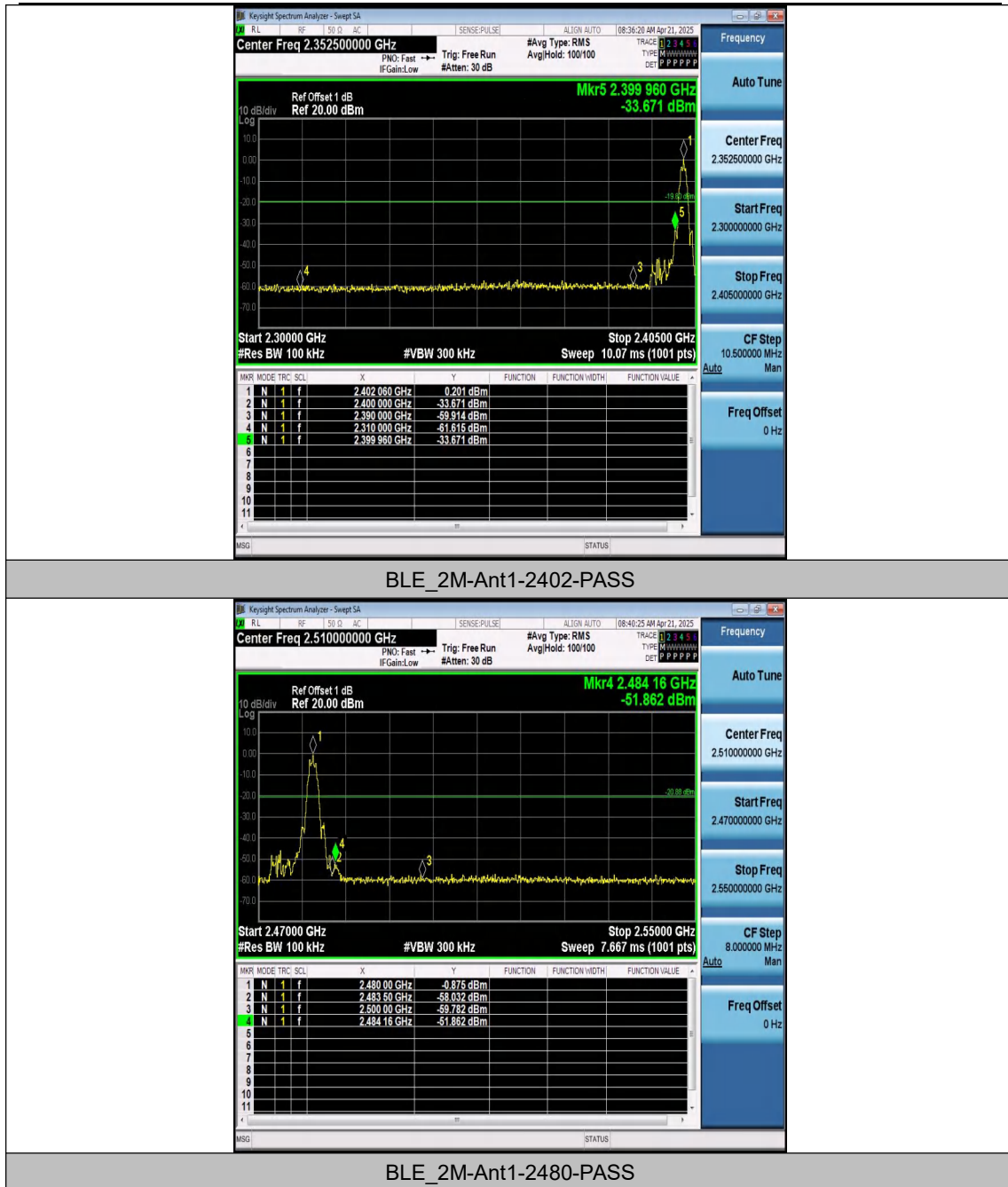
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.09	-46.07	≤-20.09	PASS
BLE_1M	Ant1	High	2480	-1.51	-47.73	≤-21.51	PASS
BLE_2M	Ant1	Low	2402	0.20	-33.67	≤-19.8	PASS
BLE_2M	Ant1	High	2480	-0.88	-51.86	≤-20.88	PASS



Test Graphs





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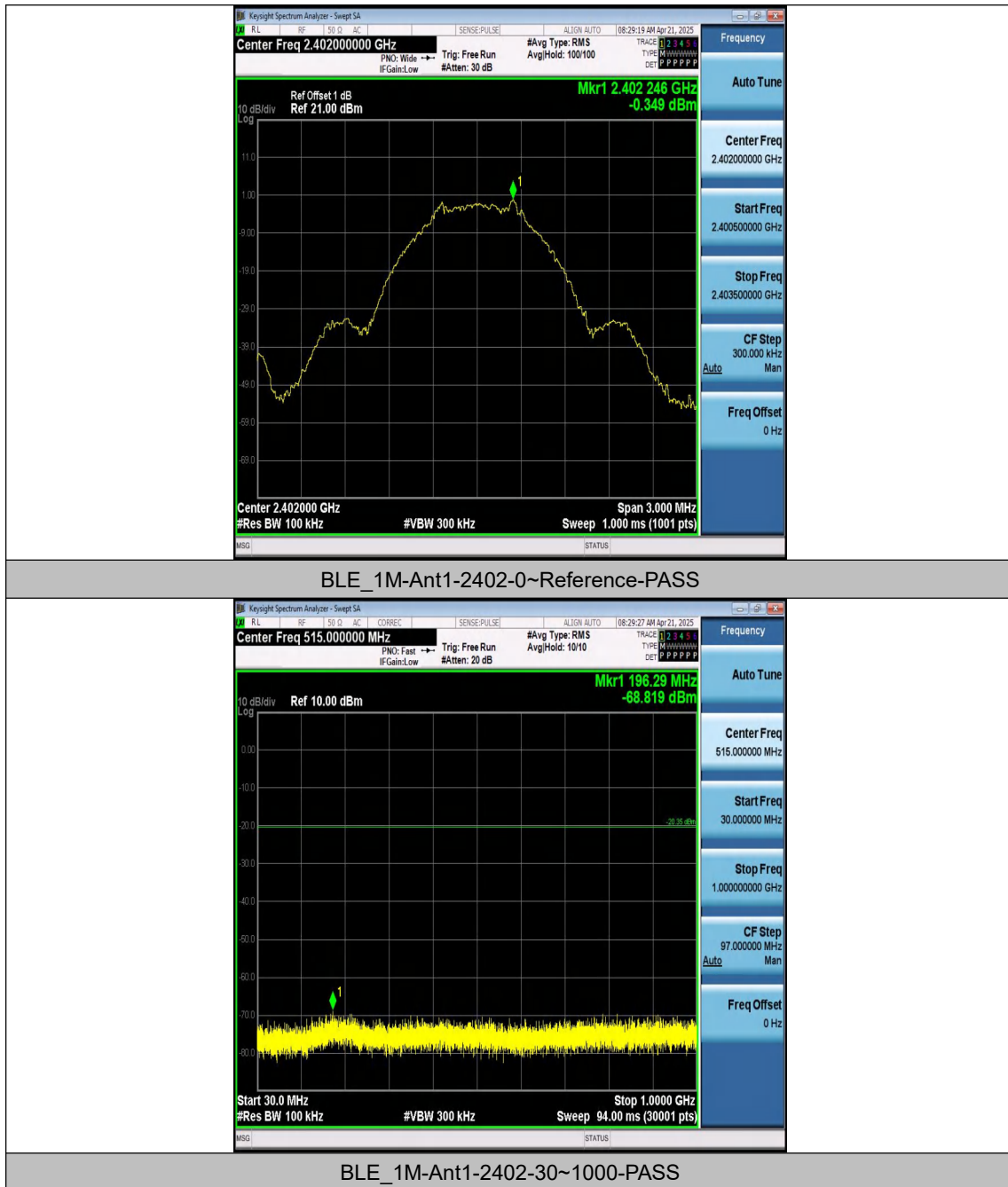
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.35	-0.35	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.35	-68.82	≤-20.35	PASS
BLE_1M	Ant1	2402	1000~26500	-0.35	-46.44	≤-20.35	PASS
BLE_1M	Ant1	2440	0~Reference	-0.55	-0.55	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.55	-68.92	≤-20.55	PASS
BLE_1M	Ant1	2440	1000~26500	-0.55	-44.87	≤-20.55	PASS
BLE_1M	Ant1	2480	0~Reference	-1.11	-1.11	---	PASS
BLE_1M	Ant1	2480	30~1000	-1.11	-69.2	≤-21.11	PASS
BLE_1M	Ant1	2480	1000~26500	-1.11	-42.55	≤-21.11	PASS
BLE_2M	Ant1	2402	0~Reference	-1.05	-1.05	---	PASS
BLE_2M	Ant1	2402	30~1000	-1.05	-68.92	≤-21.05	PASS
BLE_2M	Ant1	2402	1000~26500	-1.05	-46.43	≤-21.05	PASS
BLE_2M	Ant1	2440	0~Reference	-0.44	-0.44	---	PASS
BLE_2M	Ant1	2440	30~1000	-0.44	-69.31	≤-20.44	PASS
BLE_2M	Ant1	2440	1000~26500	-0.44	-44.46	≤-20.44	PASS
BLE_2M	Ant1	2480	0~Reference	-1.98	-1.98	---	PASS
BLE_2M	Ant1	2480	30~1000	-1.98	-68.97	≤-21.98	PASS
BLE_2M	Ant1	2480	1000~26500	-1.98	-42.39	≤-21.98	PASS



Test Graphs



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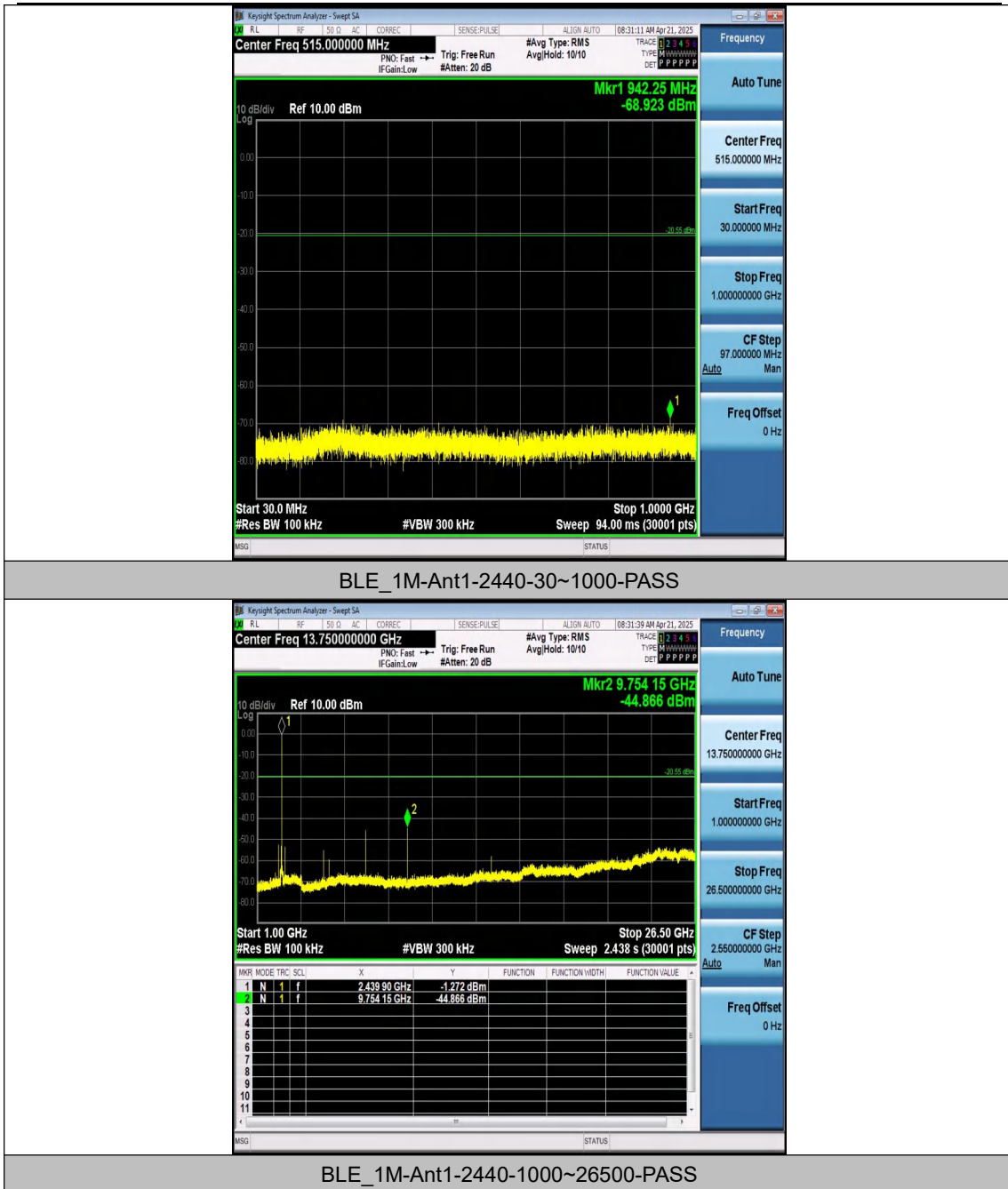


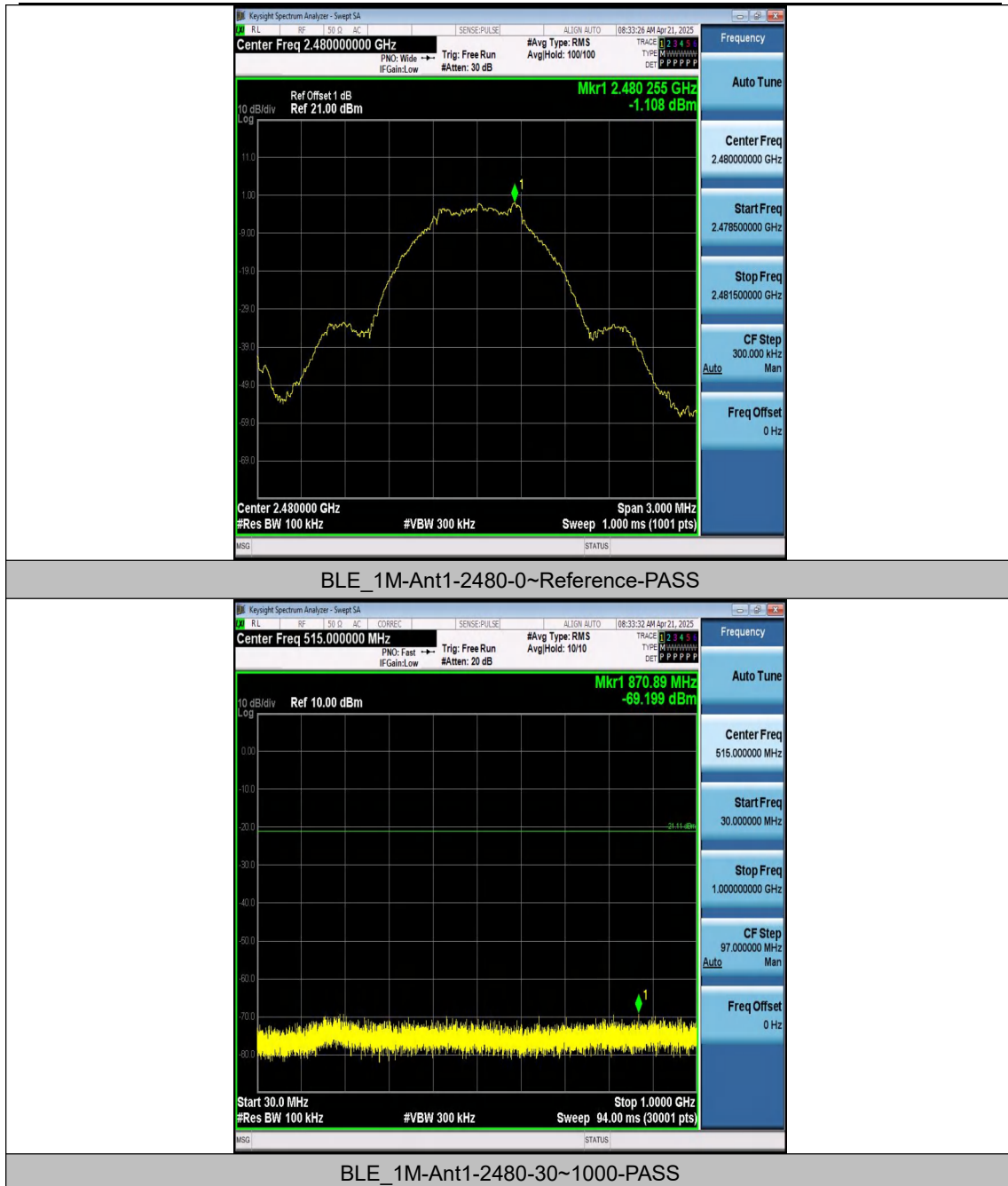
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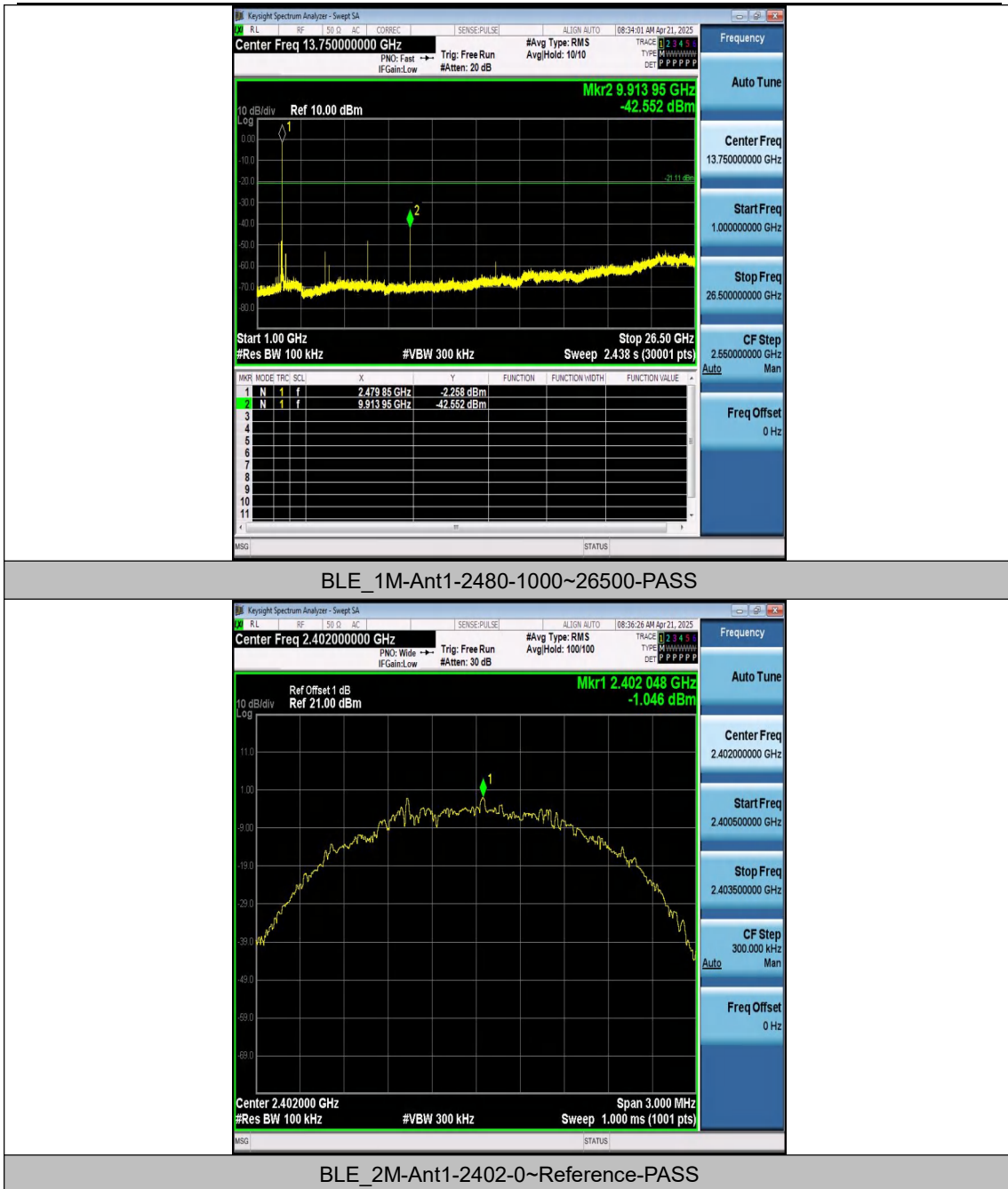




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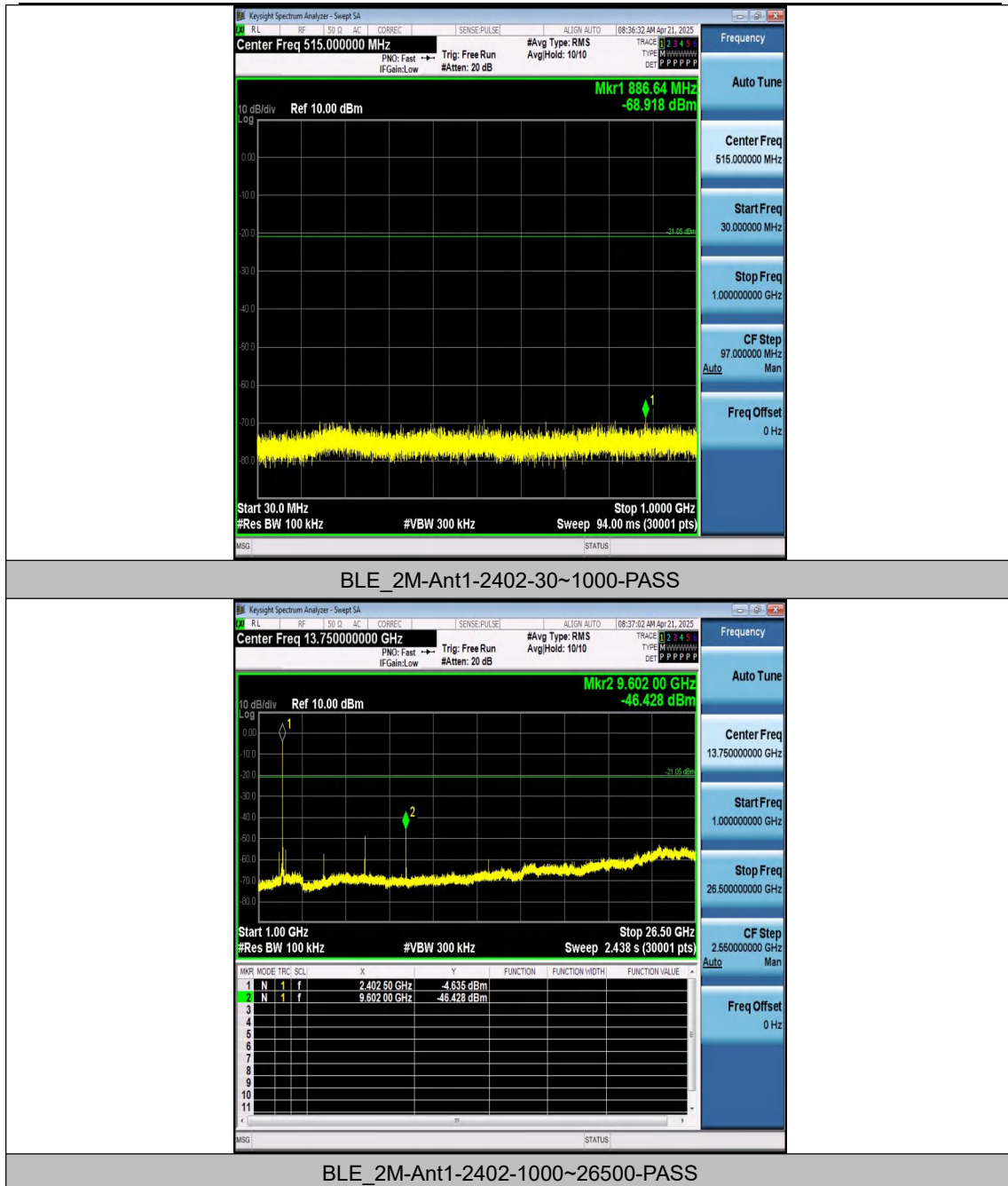


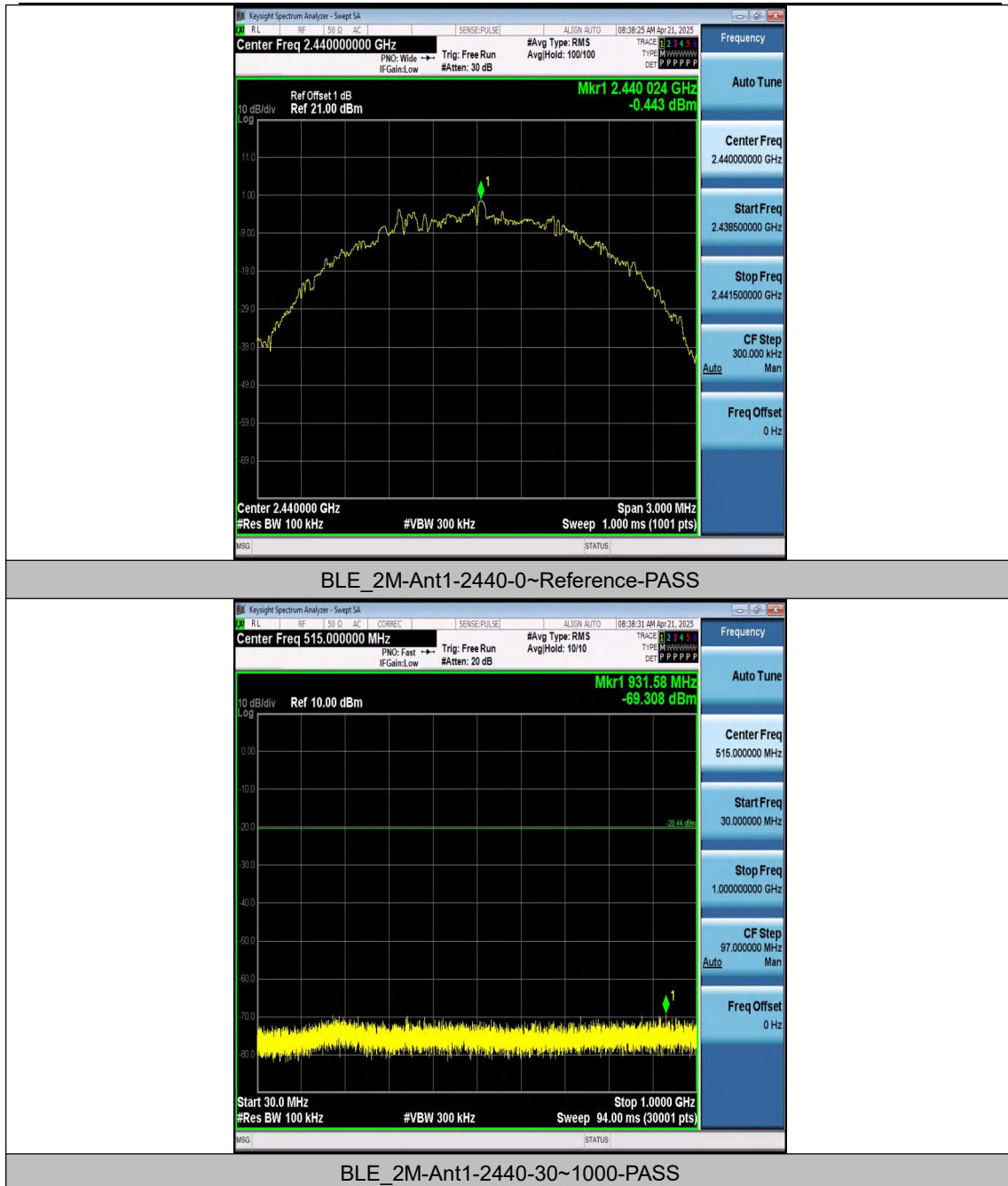
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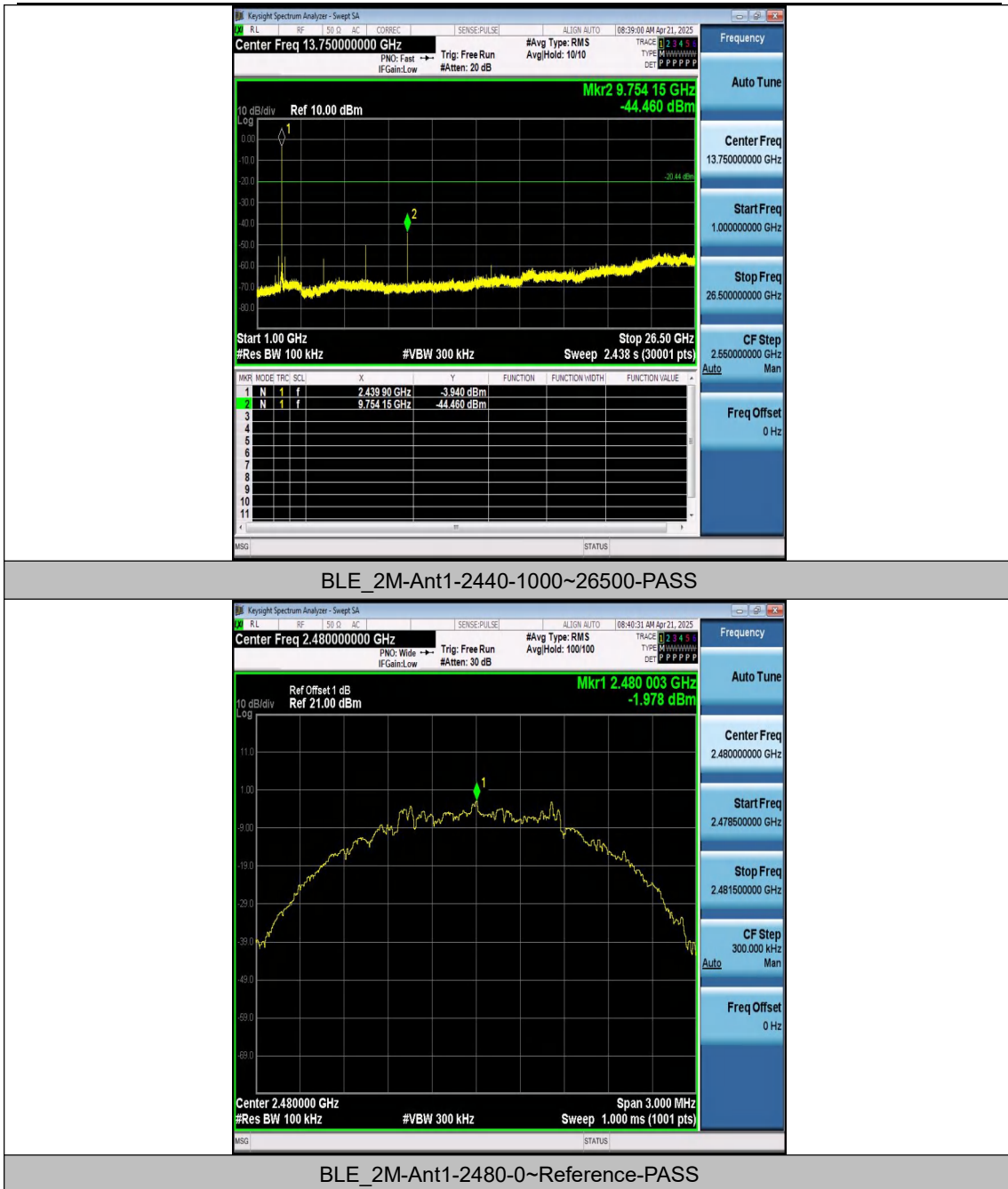




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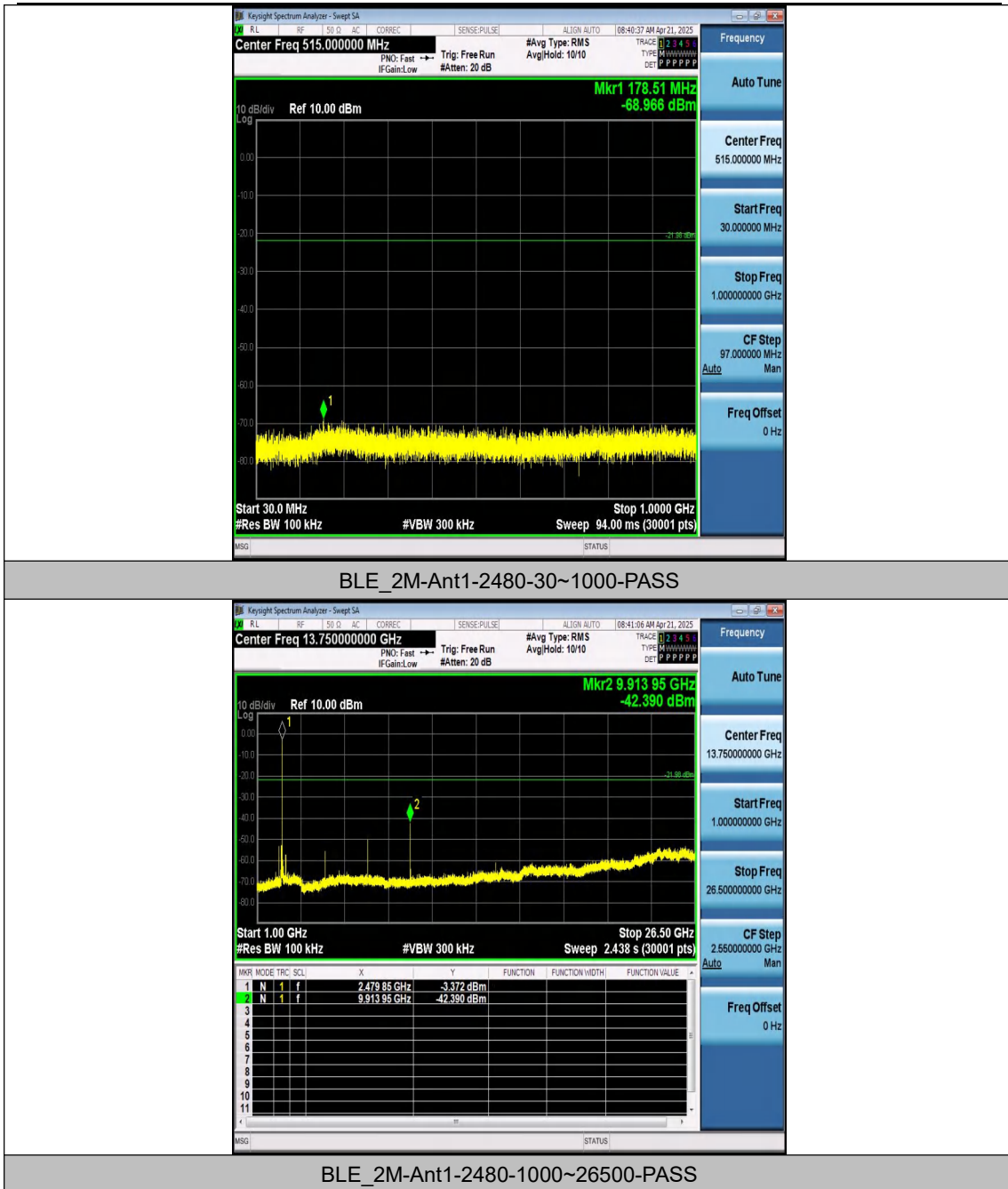


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Appendix G: Duty Cycle

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	2.51	84.86	0.71
BLE_1M	Ant1	2480	2.13	2.50	85.20	0.70
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	2.51	43.03	3.66

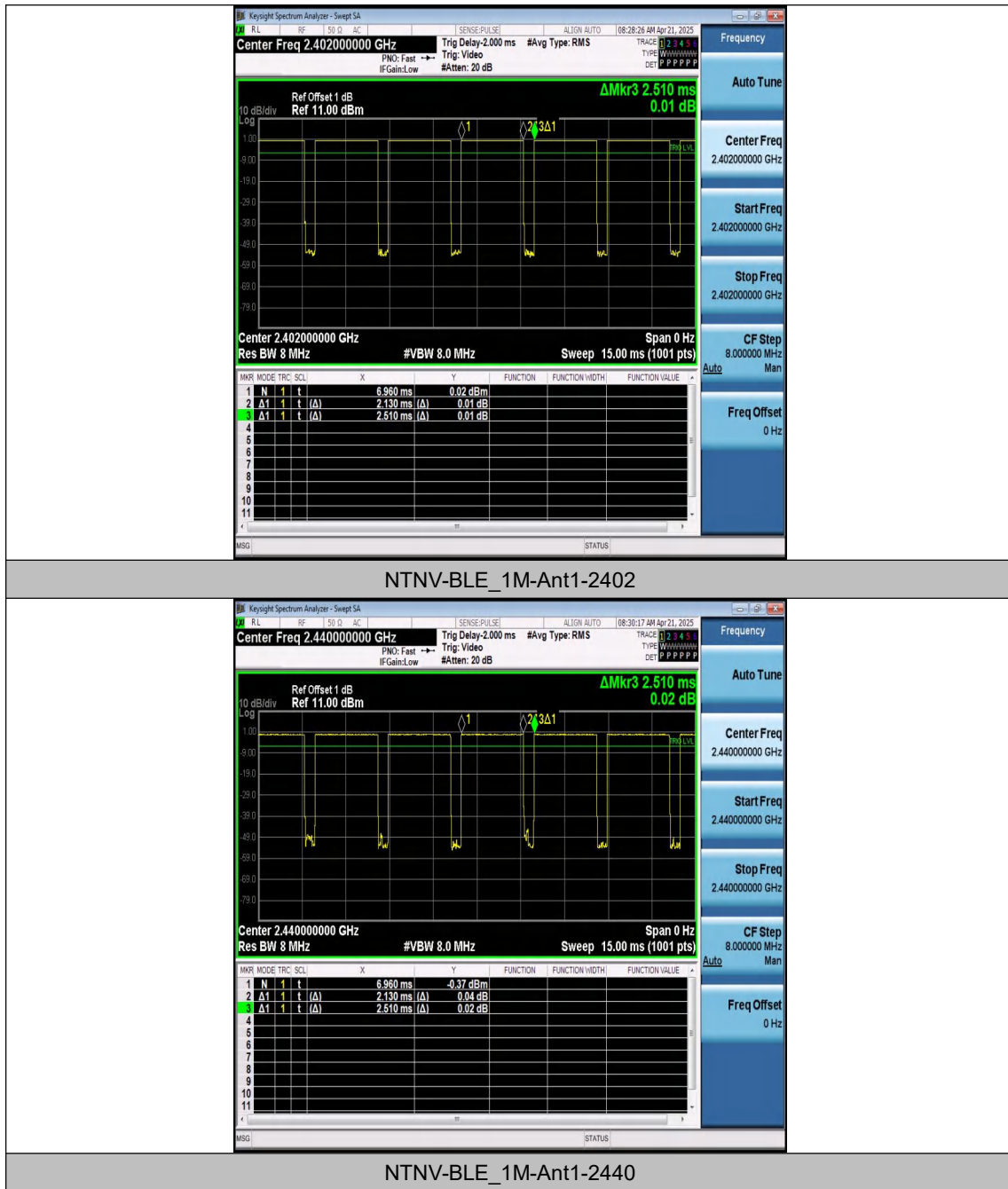
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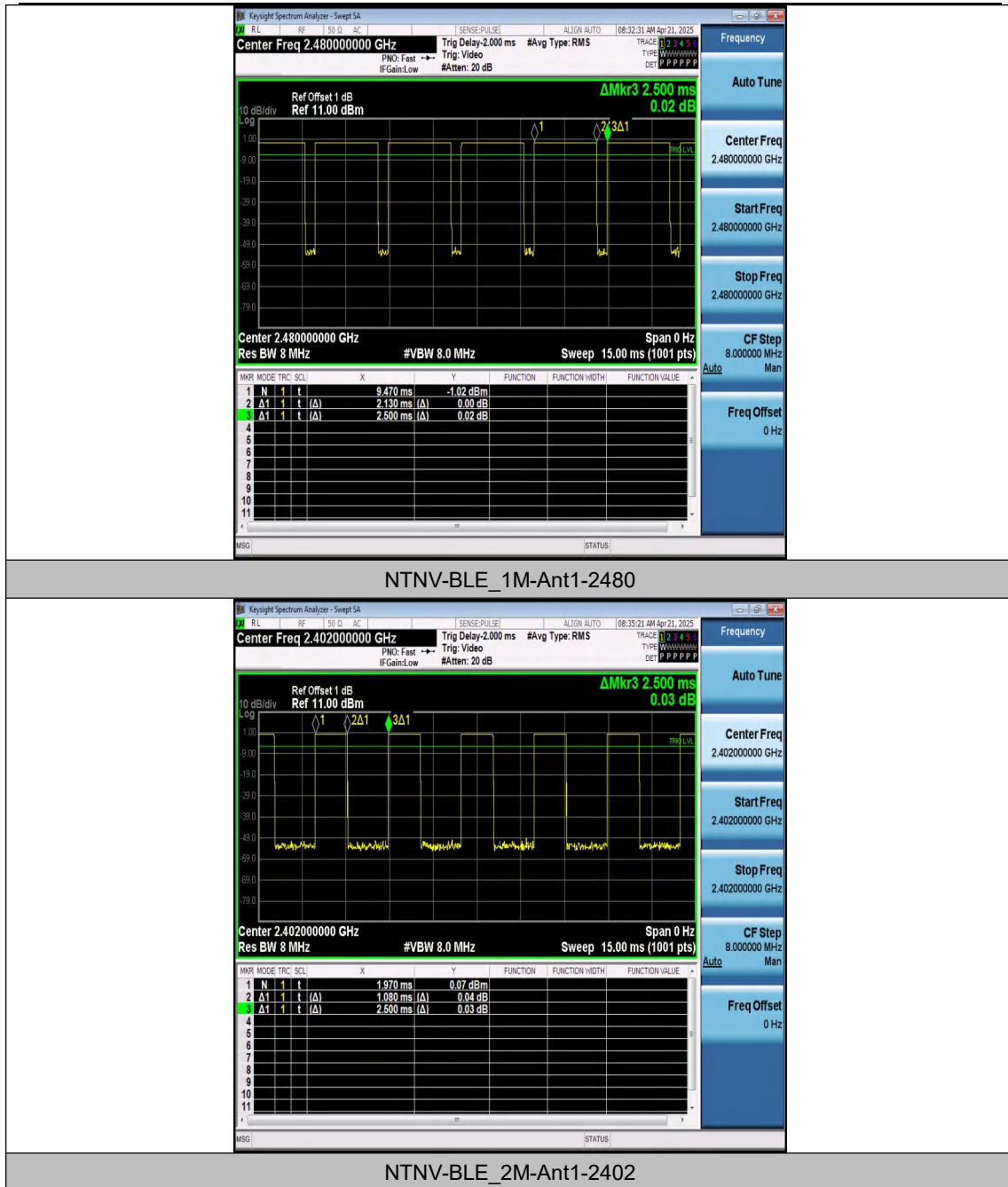
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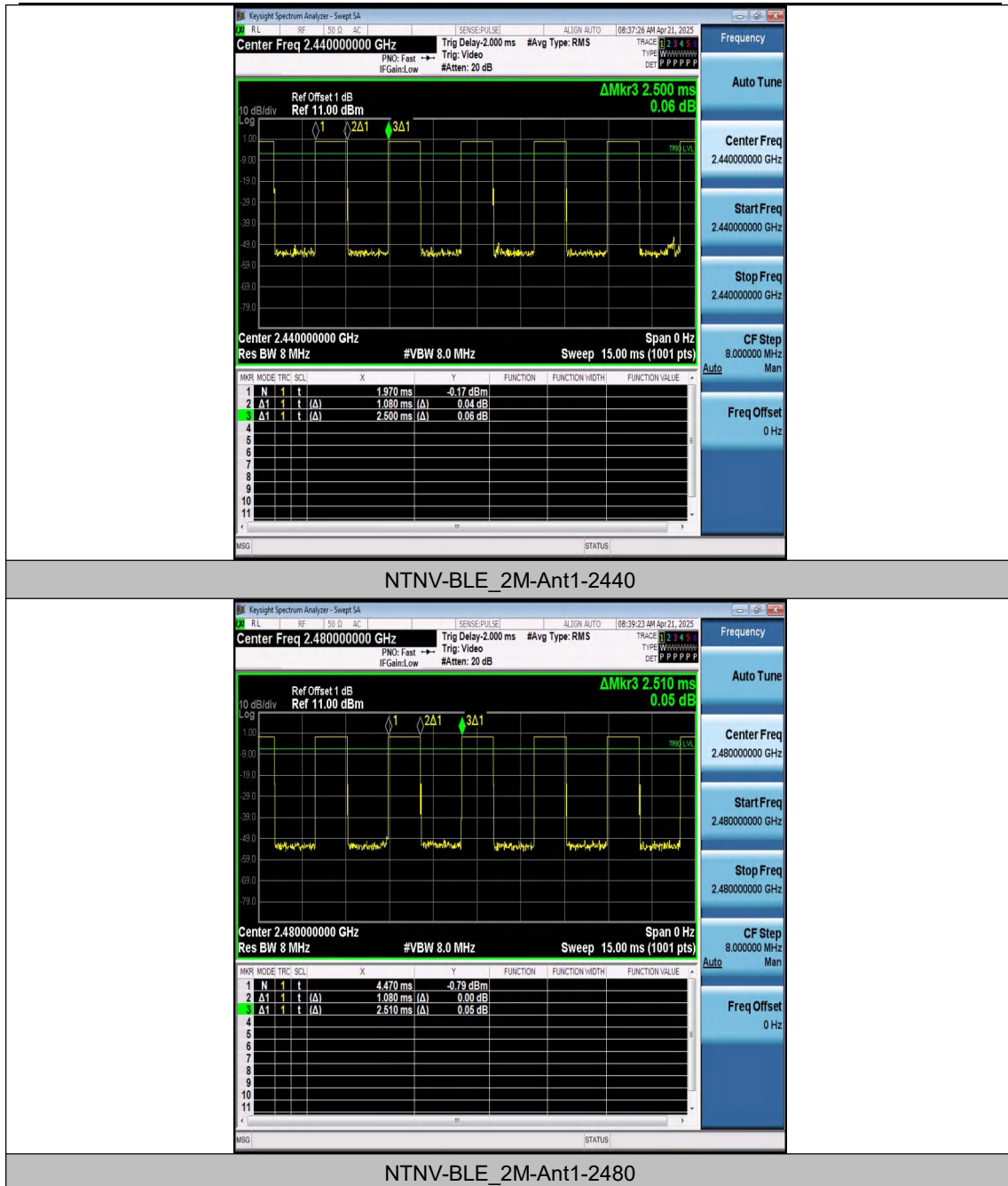




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