

Appendix Test Data

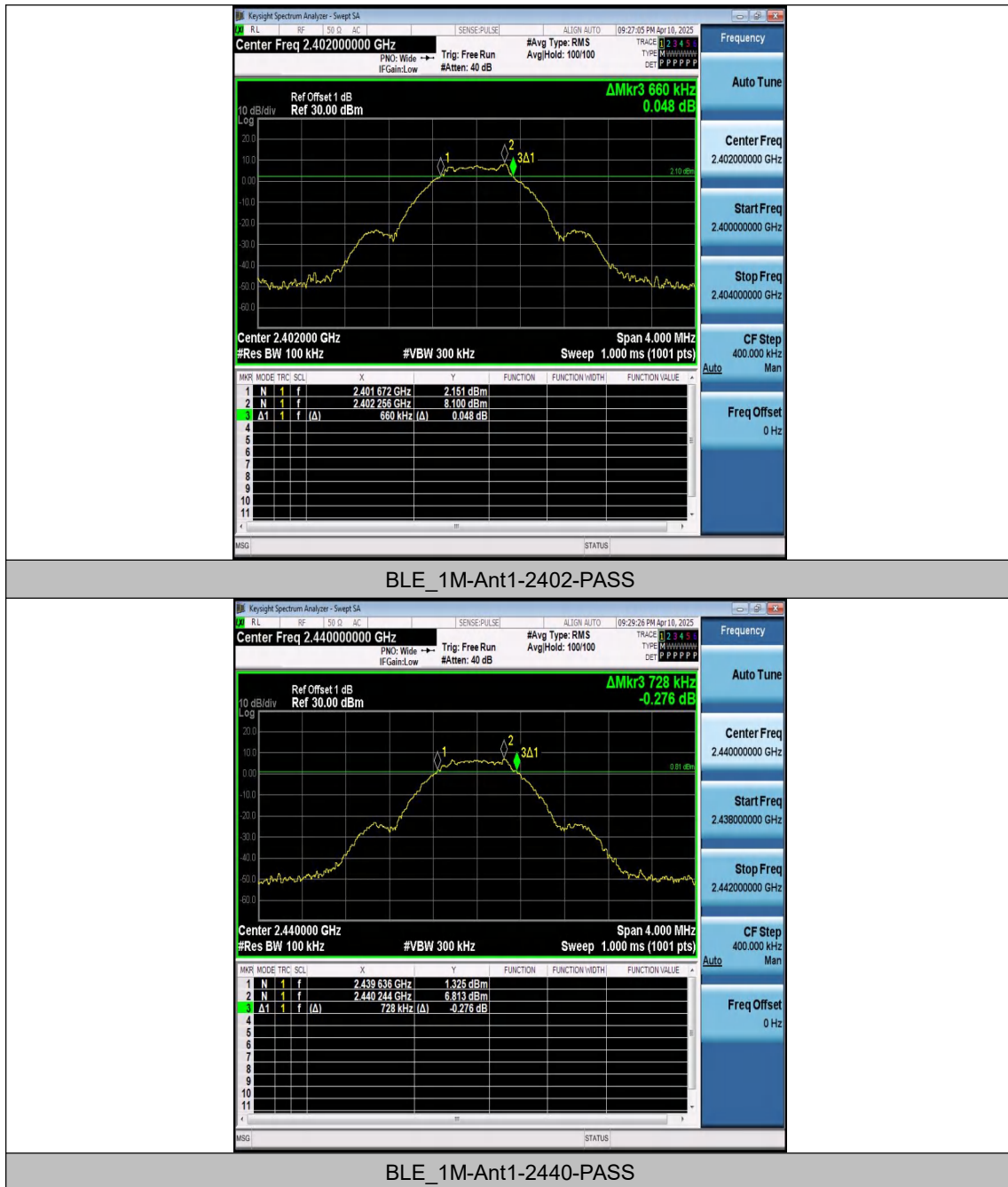
Report No.:	1812C50139812502	Test Sample No.:	1-2-2
Start Test Date:	2025.04.10	Finish Test Date:	2025.04.16
Test Engineer:	<i>Alex Reng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	26.5°C	Relative Humidity:	40%
Pressure:	101kPa		

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	0.660	2401.672	2402.332	0.5	PASS
BLE_1M	Ant1	2440	0.728	2439.636	2440.364	0.5	PASS
BLE_1M	Ant1	2480	0.708	2479.640	2480.348	0.5	PASS
BLE_2M	Ant1	2402	1.172	2401.420	2402.592	0.5	PASS
BLE_2M	Ant1	2440	1.268	2439.360	2440.628	0.5	PASS
BLE_2M	Ant1	2480	1.156	2479.428	2480.584	0.5	PASS

Test Graphs



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Appendix B: 99% Occupied Bandwidth

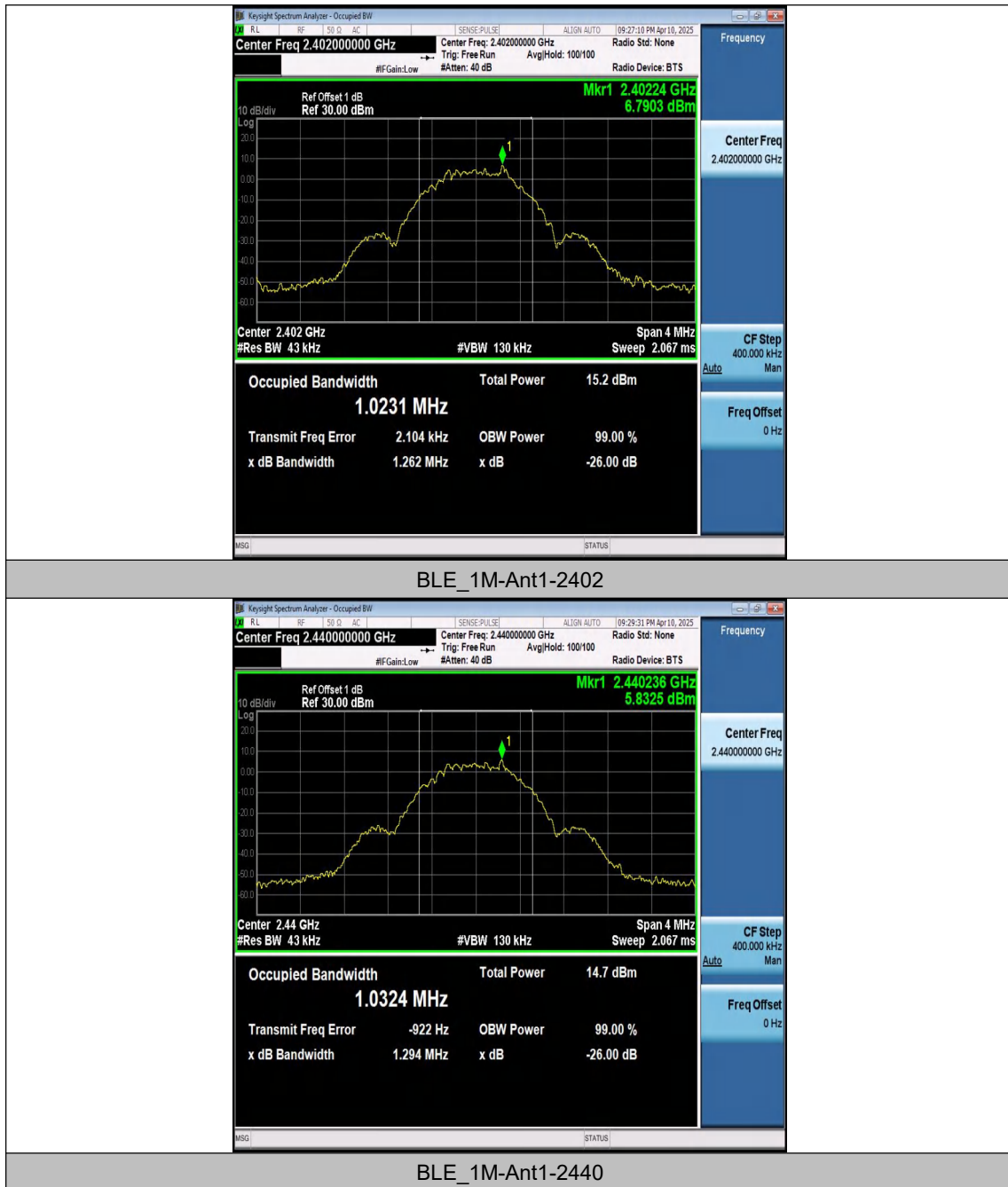
Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0231	2401.4906	2402.5137	---	---
BLE_1M	Ant1	2440	1.0324	2439.4829	2440.5153	---	---
BLE_1M	Ant1	2480	1.0301	2479.4837	2480.5138	---	---
BLE_2M	Ant1	2402	2.0483	2400.9906	2403.0389	---	---
BLE_2M	Ant1	2440	2.0480	2438.9933	2441.0413	---	---
BLE_2M	Ant1	2480	2.0583	2478.9877	2481.0460	---	---

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Test Graphs



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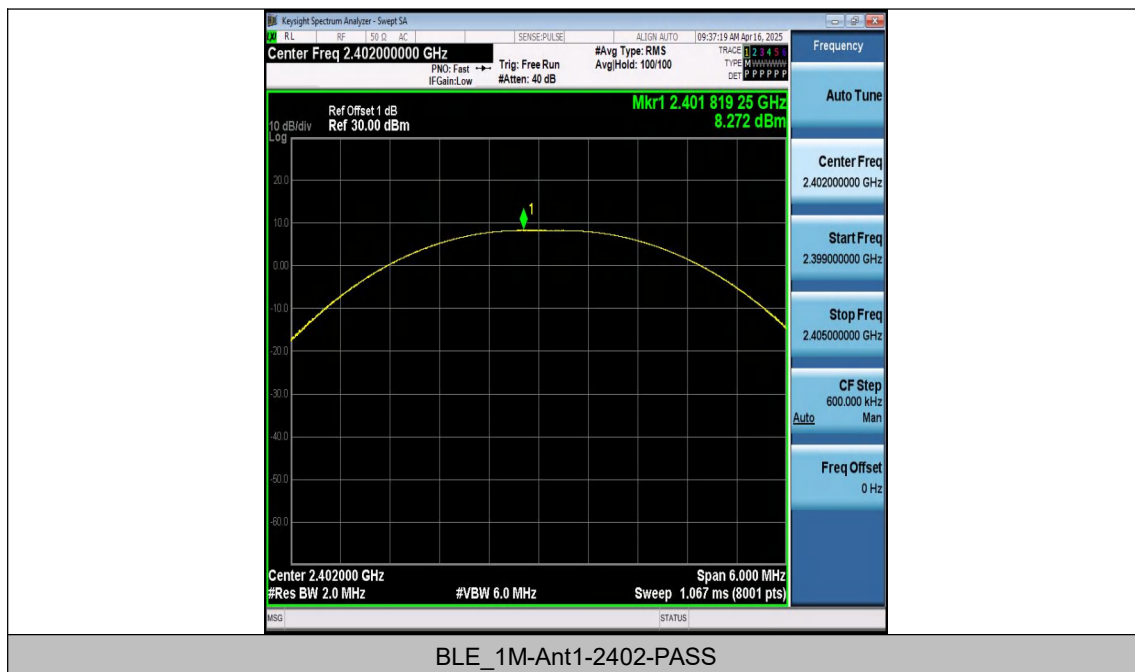


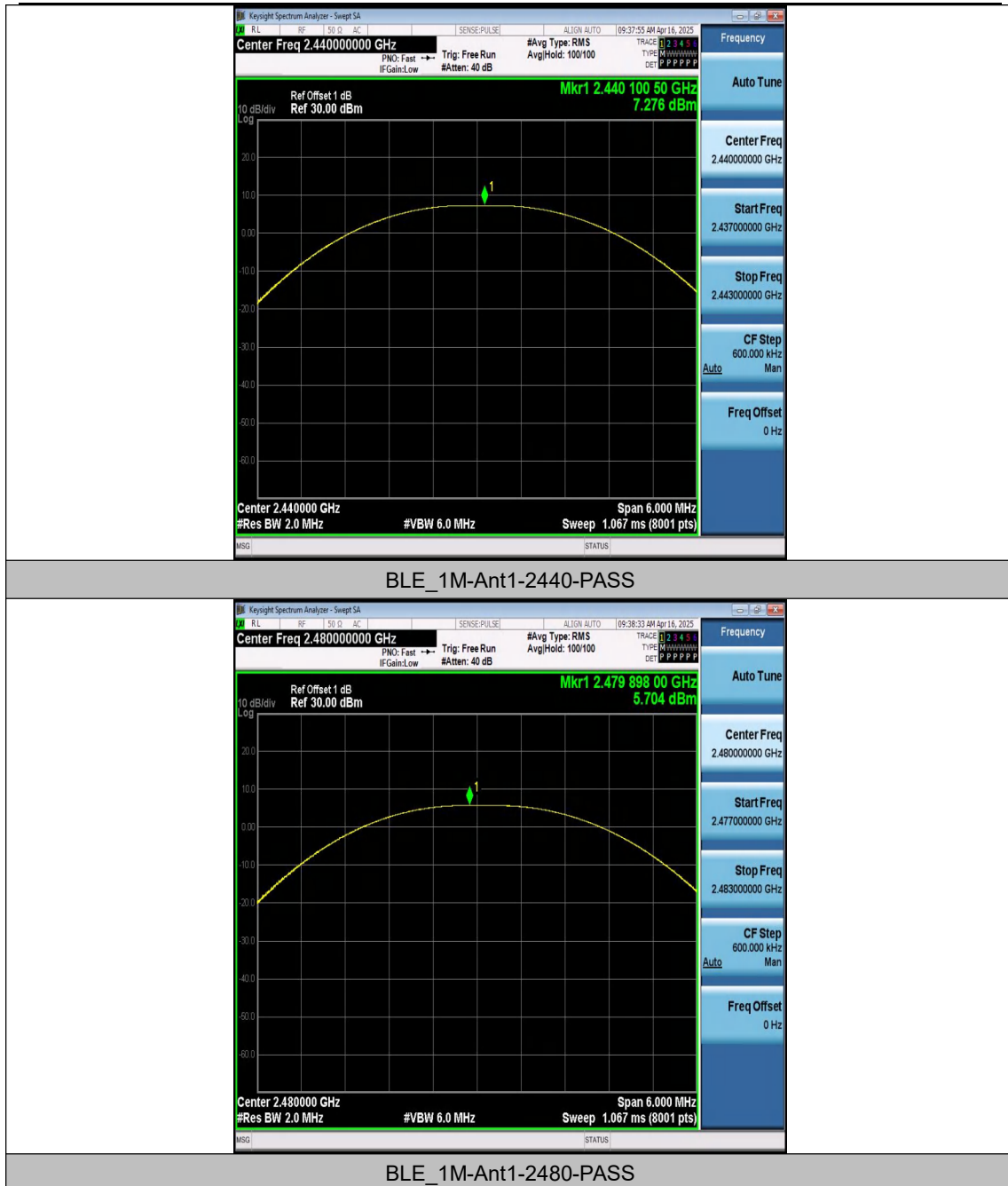
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	8.27	≤30	PASS
BLE_1M	Ant1	2440	7.28	≤30	PASS
BLE_1M	Ant1	2480	5.70	≤30	PASS
BLE_2M	Ant1	2402	8.25	≤30	PASS
BLE_2M	Ant1	2440	7.27	≤30	PASS
BLE_2M	Ant1	2480	6.70	≤30	PASS

Test Graphs Peak

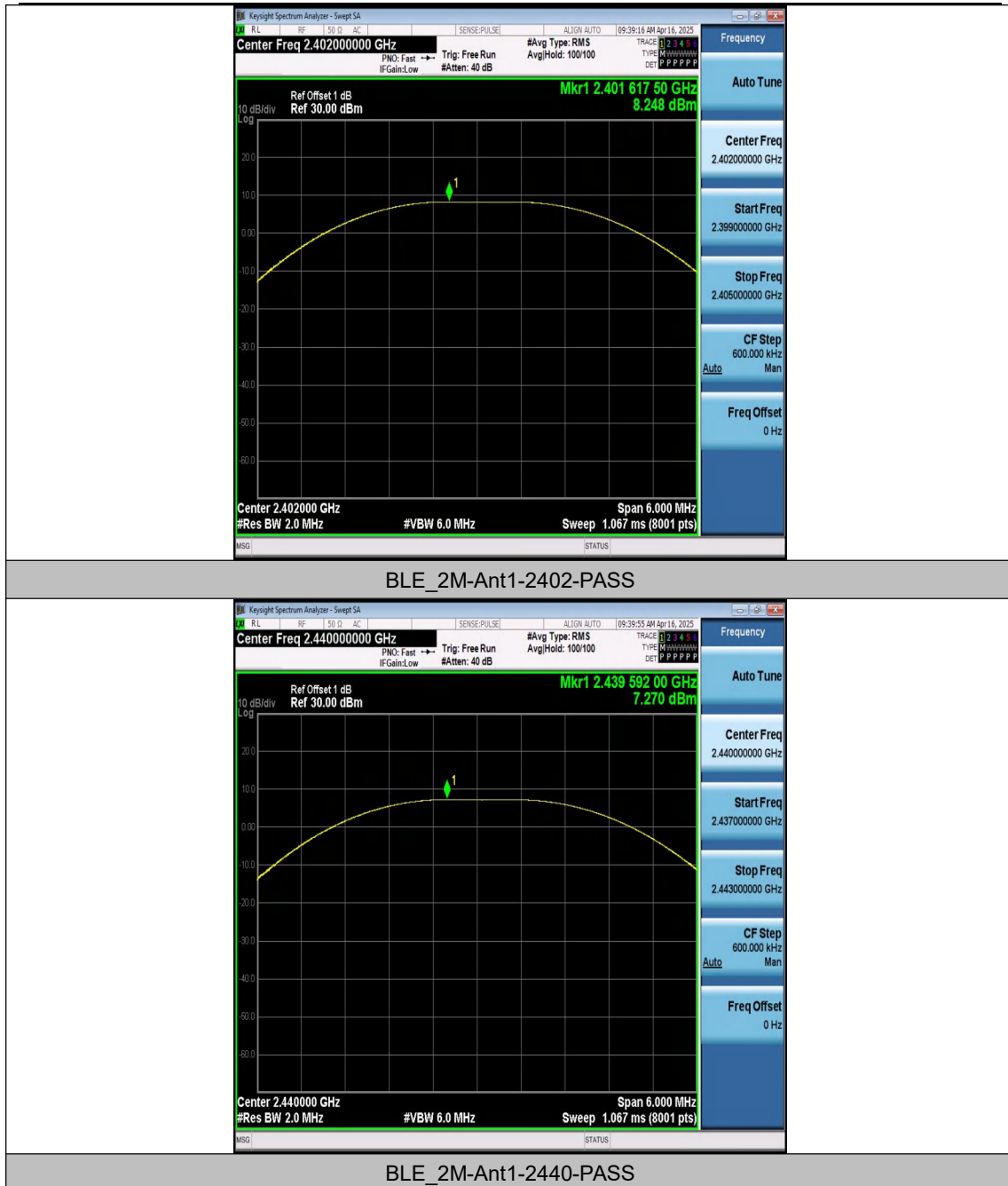




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Appendix D: Maximum power spectral density

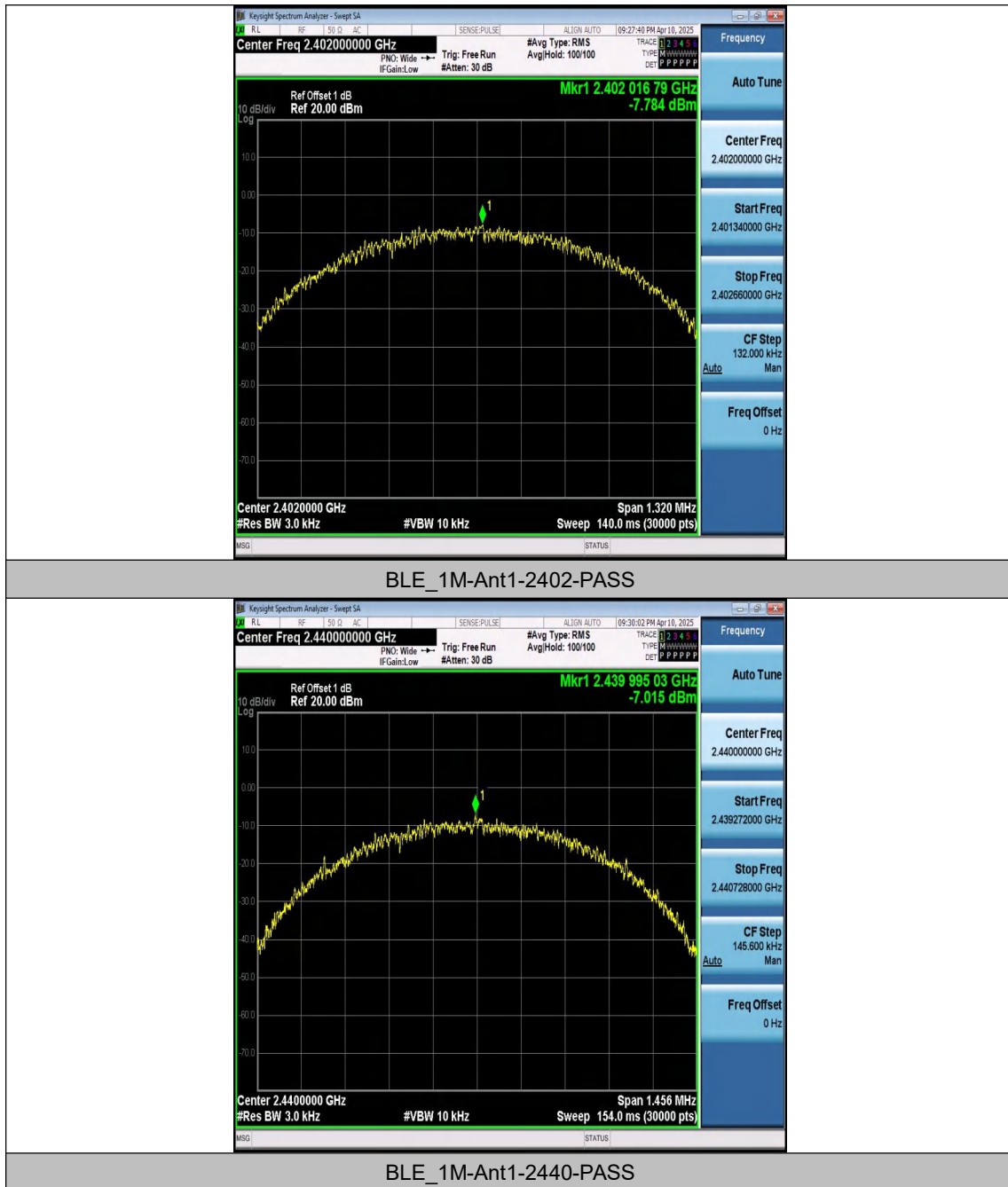
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-7.78	≤8.00	PASS
BLE_1M	Ant1	2440	-7.02	≤8.00	PASS
BLE_1M	Ant1	2480	-7.55	≤8.00	PASS
BLE_2M	Ant1	2402	-11.21	≤8.00	PASS
BLE_2M	Ant1	2440	-11.49	≤8.00	PASS
BLE_2M	Ant1	2480	-11.19	≤8.00	PASS

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



Test Graphs

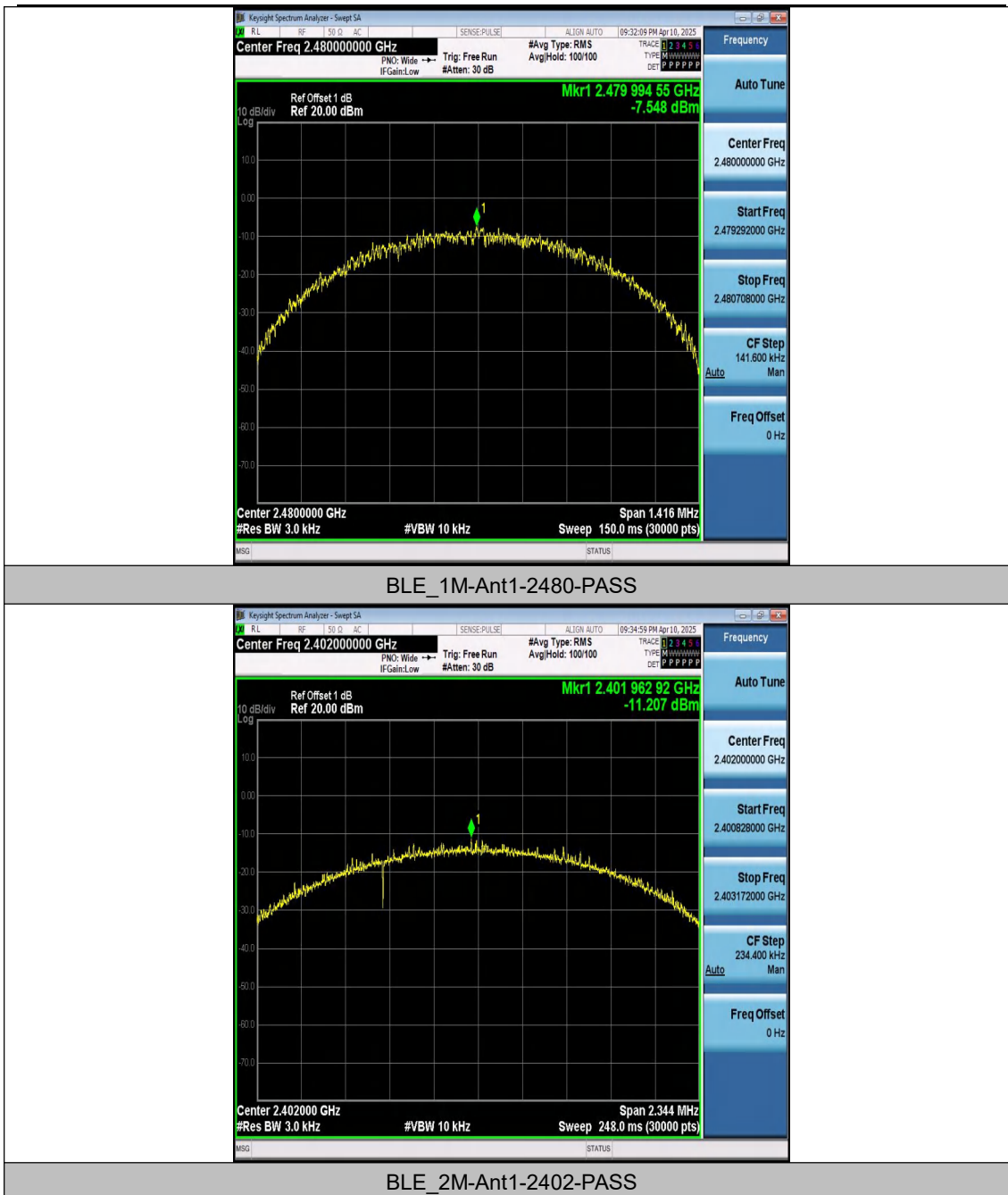


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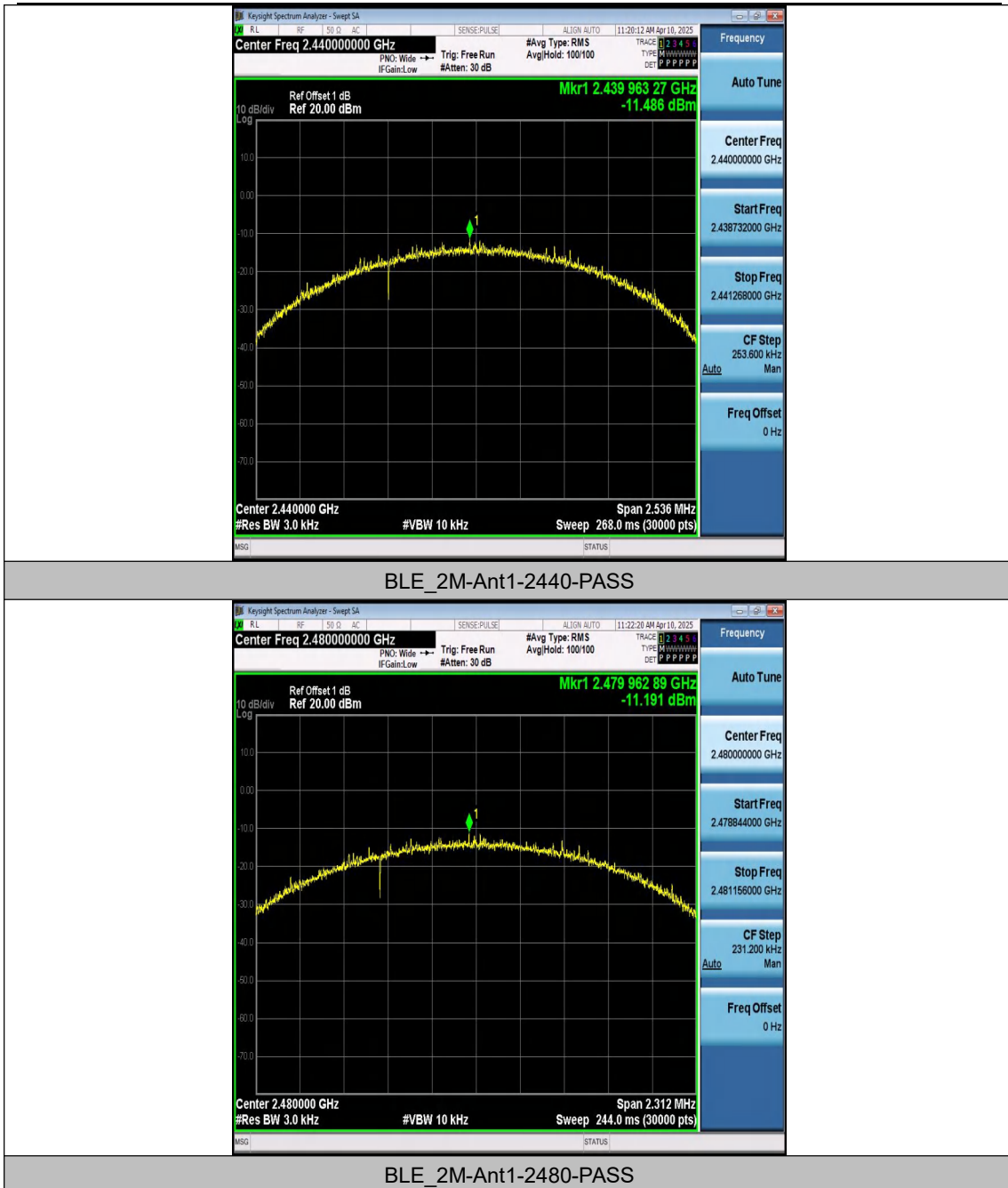


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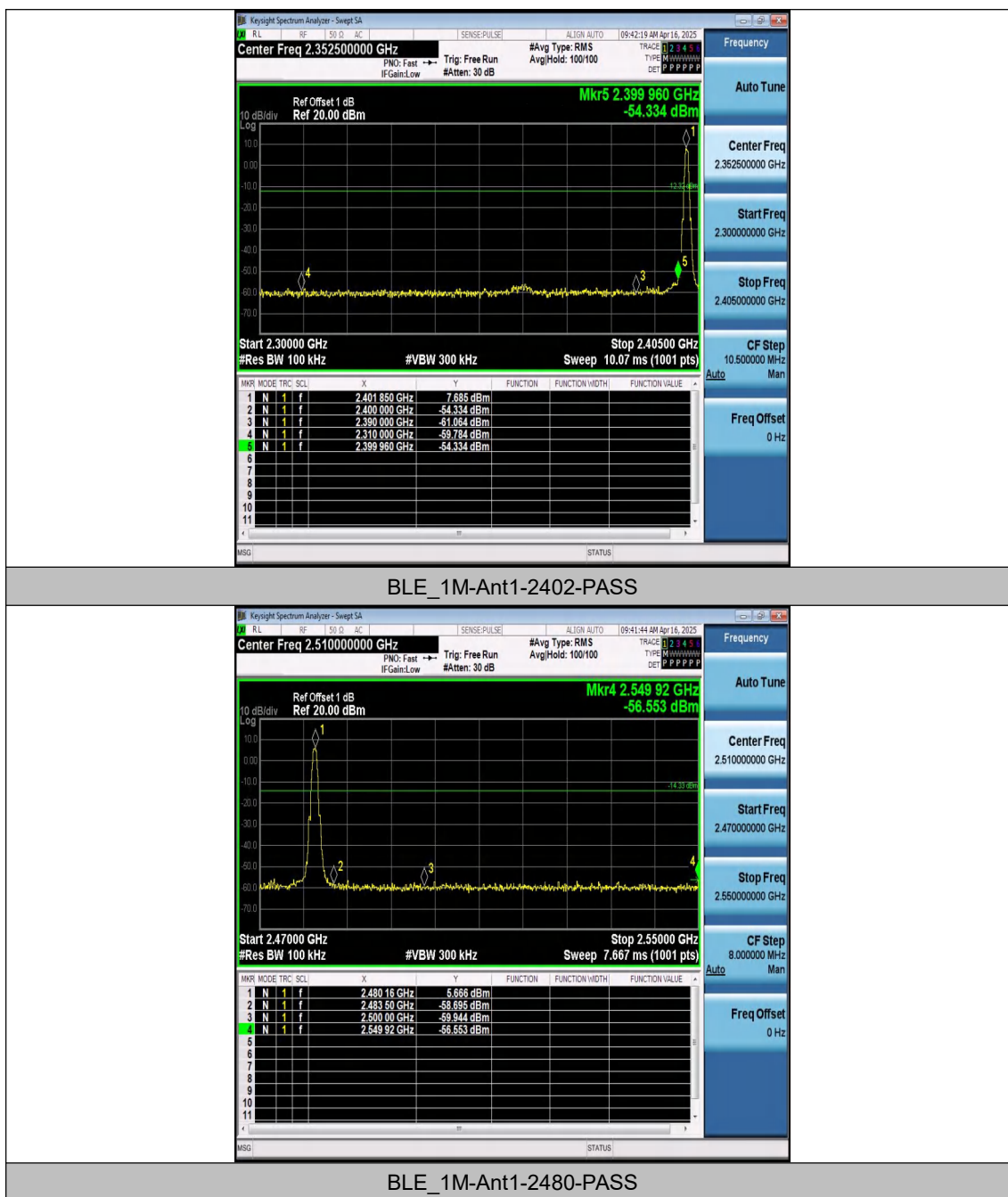
Appendix E: Band edge measurements

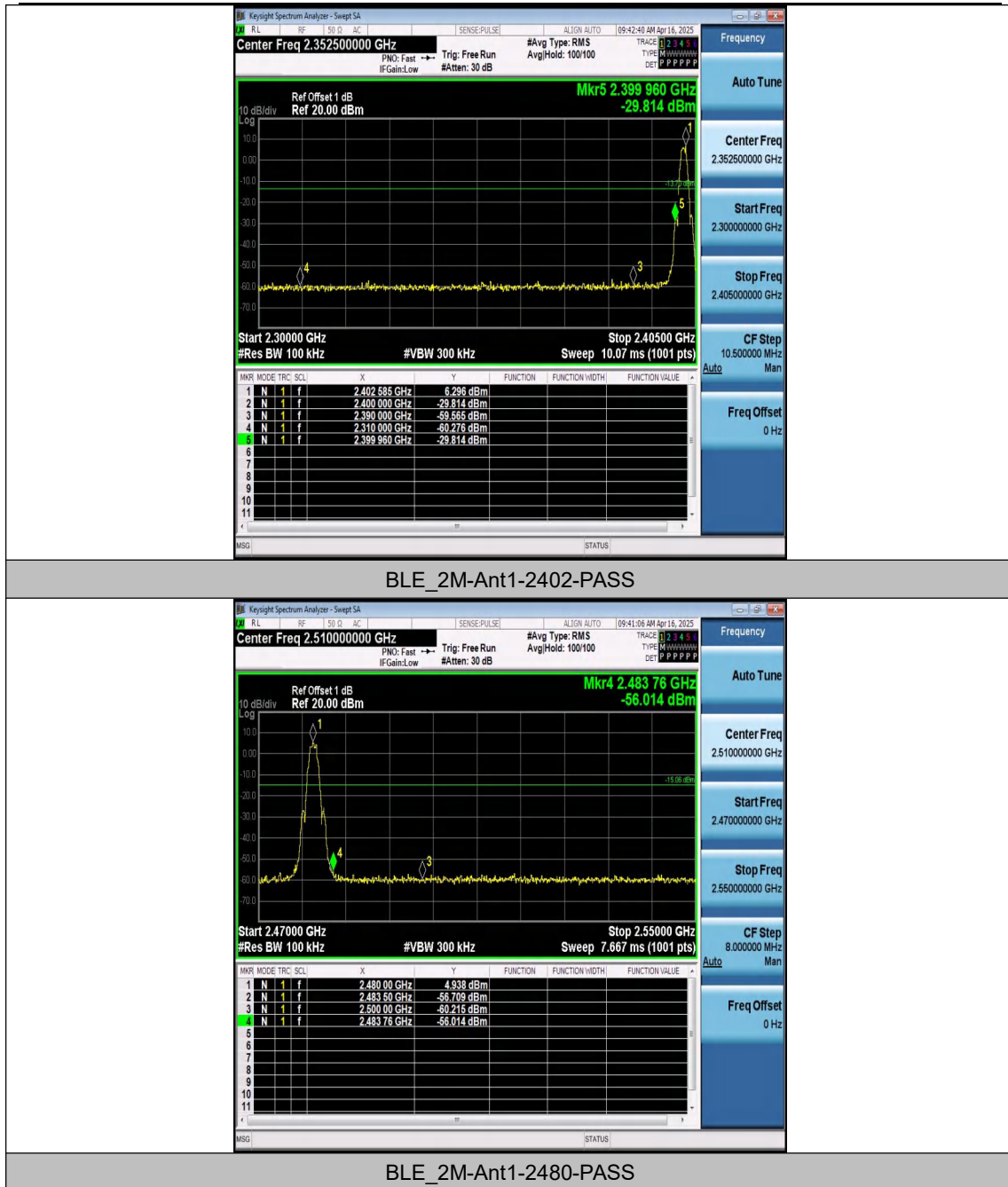
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	7.69	-54.33	≤-12.32	PASS
BLE_1M	Ant1	High	2480	5.67	-56.55	≤-14.33	PASS
BLE_2M	Ant1	Low	2402	6.30	-29.81	≤-13.7	PASS
BLE_2M	Ant1	High	2480	4.94	-56.01	≤-15.06	PASS



Test Graphs





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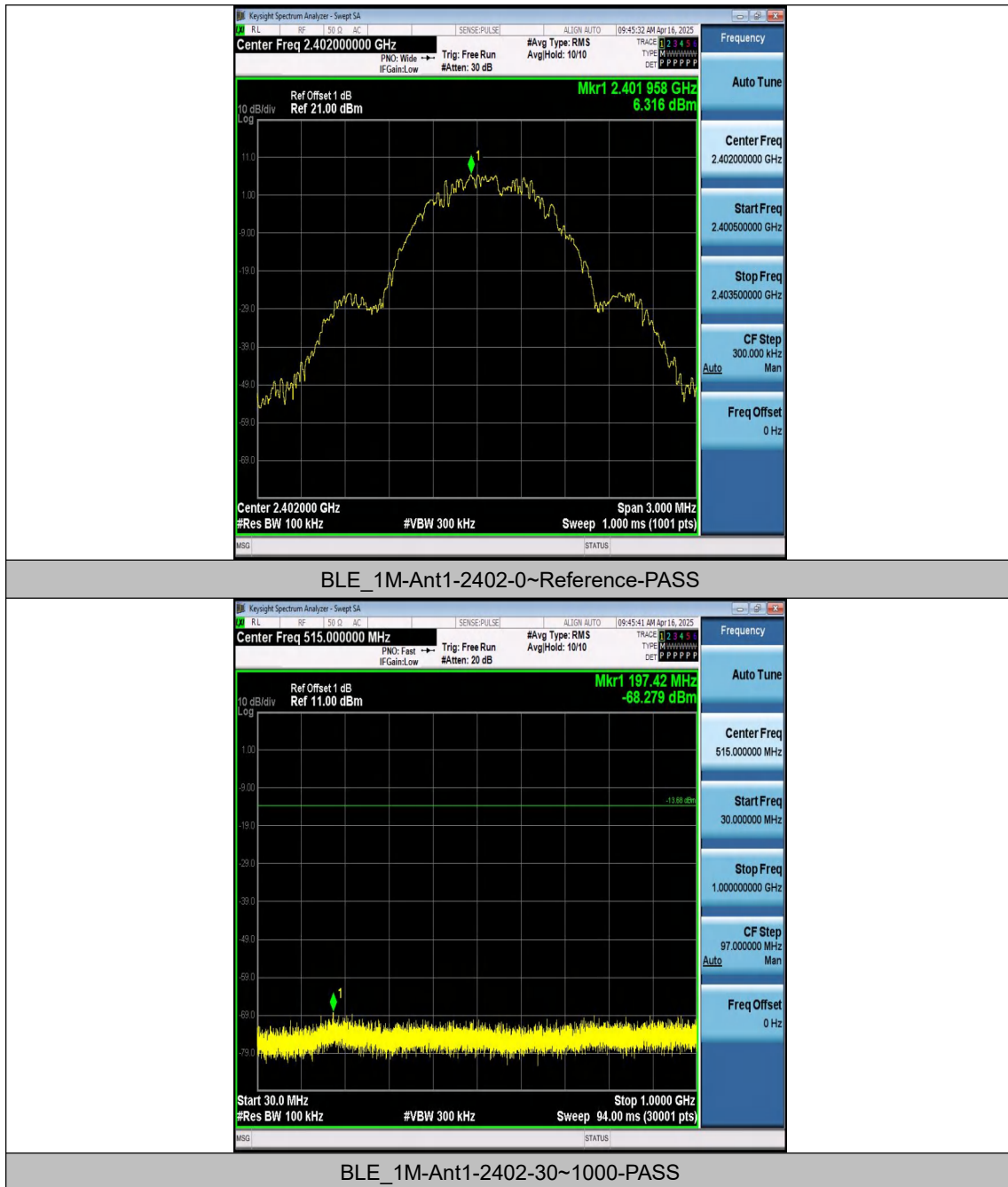
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	6.32	6.32	---	PASS
BLE_1M	Ant1	2402	30~1000	6.32	-68.28	≤-13.68	PASS
BLE_1M	Ant1	2402	1000~26500	6.32	-41.57	≤-13.68	PASS
BLE_1M	Ant1	2440	0~Reference	6.73	6.73	---	PASS
BLE_1M	Ant1	2440	30~1000	6.73	-68.69	≤-13.27	PASS
BLE_1M	Ant1	2440	1000~26500	6.73	-46.08	≤-13.27	PASS
BLE_1M	Ant1	2480	0~Reference	3.93	3.93	---	PASS
BLE_1M	Ant1	2480	30~1000	3.93	-68.42	≤-16.07	PASS
BLE_1M	Ant1	2480	1000~26500	3.93	-52.81	≤-16.07	PASS
BLE_2M	Ant1	2402	0~Reference	4.71	4.71	---	PASS
BLE_2M	Ant1	2402	30~1000	4.71	-68	≤-15.29	PASS
BLE_2M	Ant1	2402	1000~26500	4.71	-50.08	≤-15.29	PASS
BLE_2M	Ant1	2440	0~Reference	3.80	3.80	---	PASS
BLE_2M	Ant1	2440	30~1000	3.80	-68.57	≤-16.2	PASS
BLE_2M	Ant1	2440	1000~26500	3.80	-49.88	≤-16.2	PASS
BLE_2M	Ant1	2480	0~Reference	2.31	2.31	---	PASS
BLE_2M	Ant1	2480	30~1000	2.31	-68.5	≤-17.69	PASS
BLE_2M	Ant1	2480	1000~26500	2.31	-53.58	≤-17.69	PASS



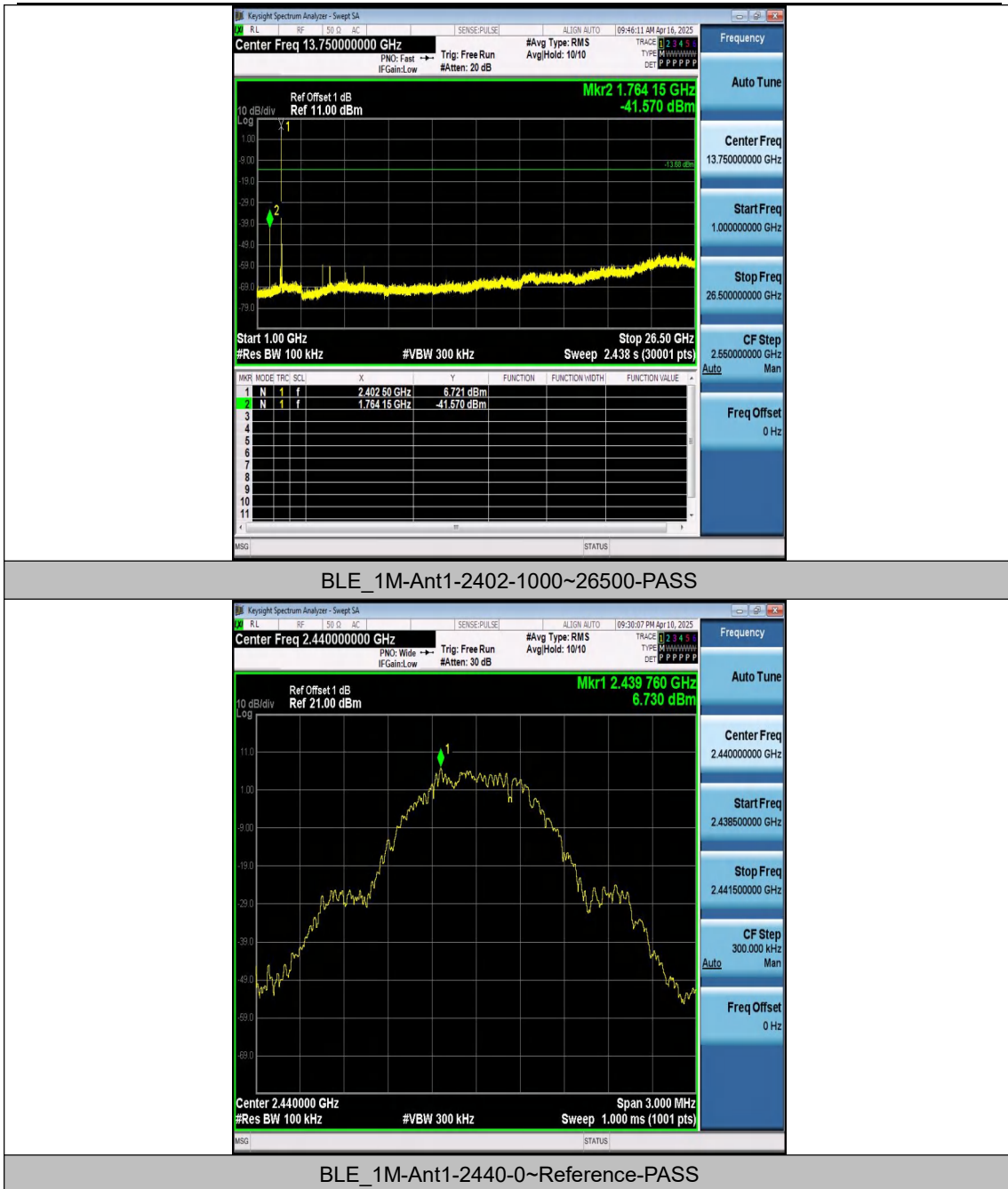
Test Graphs

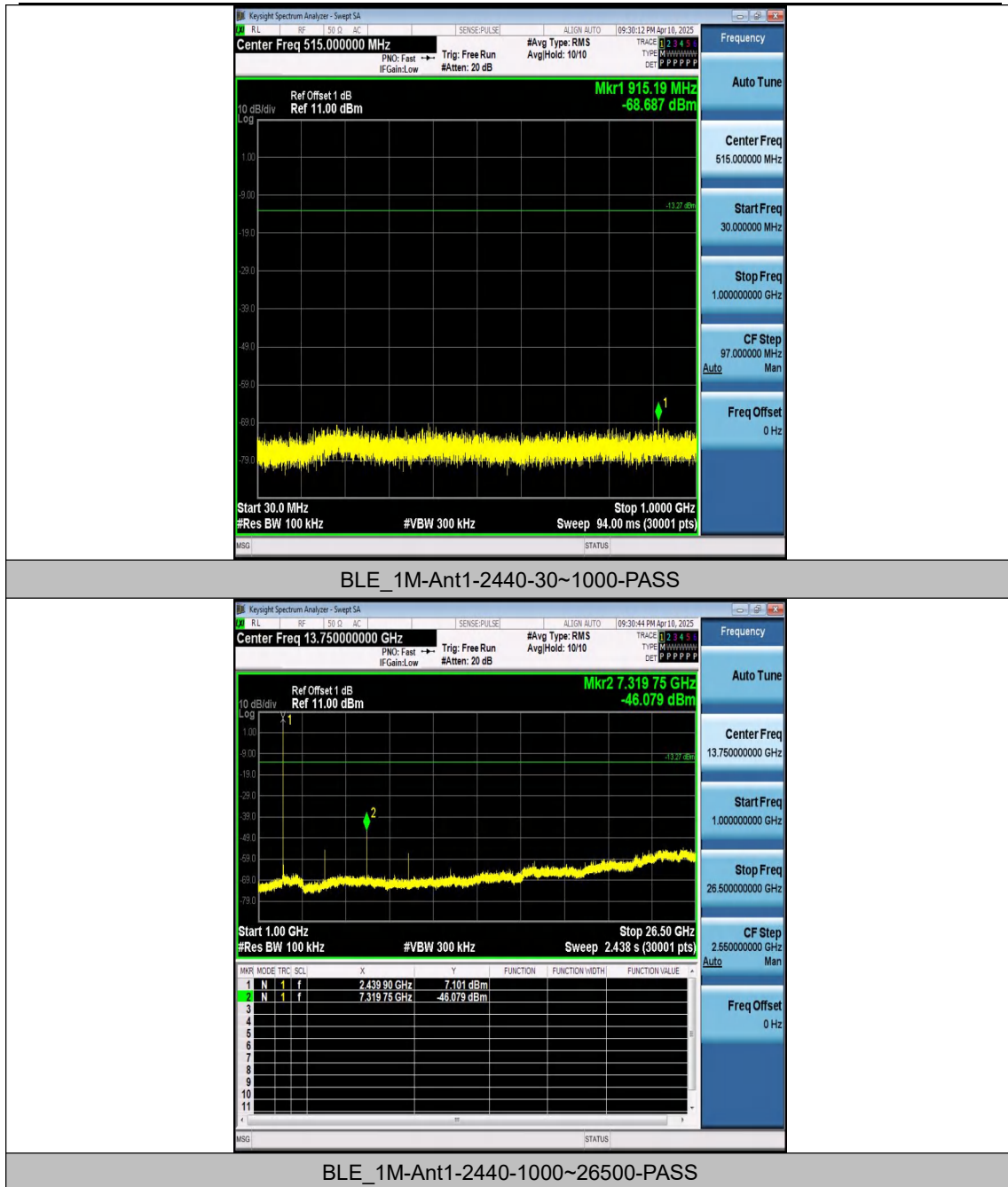


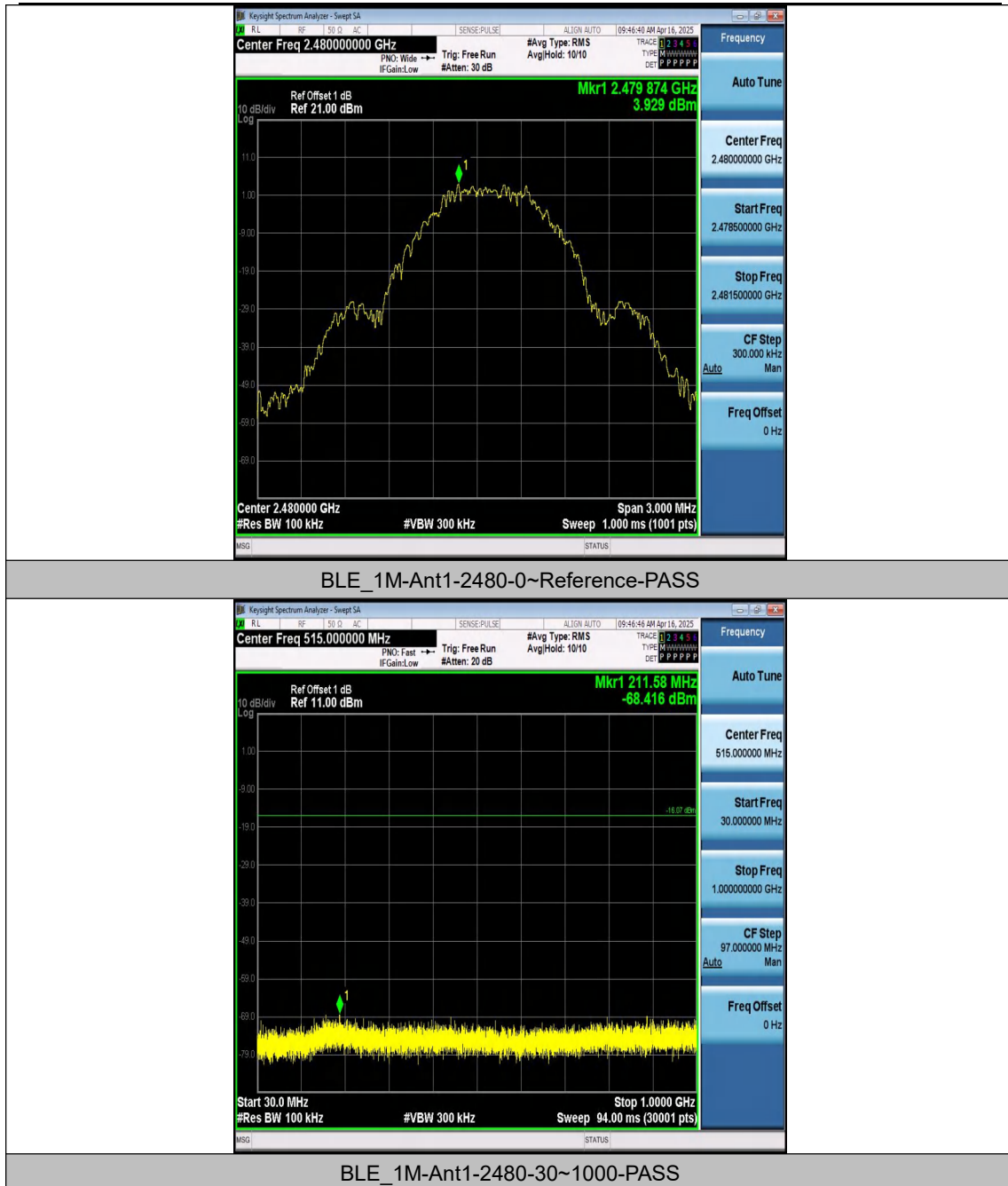
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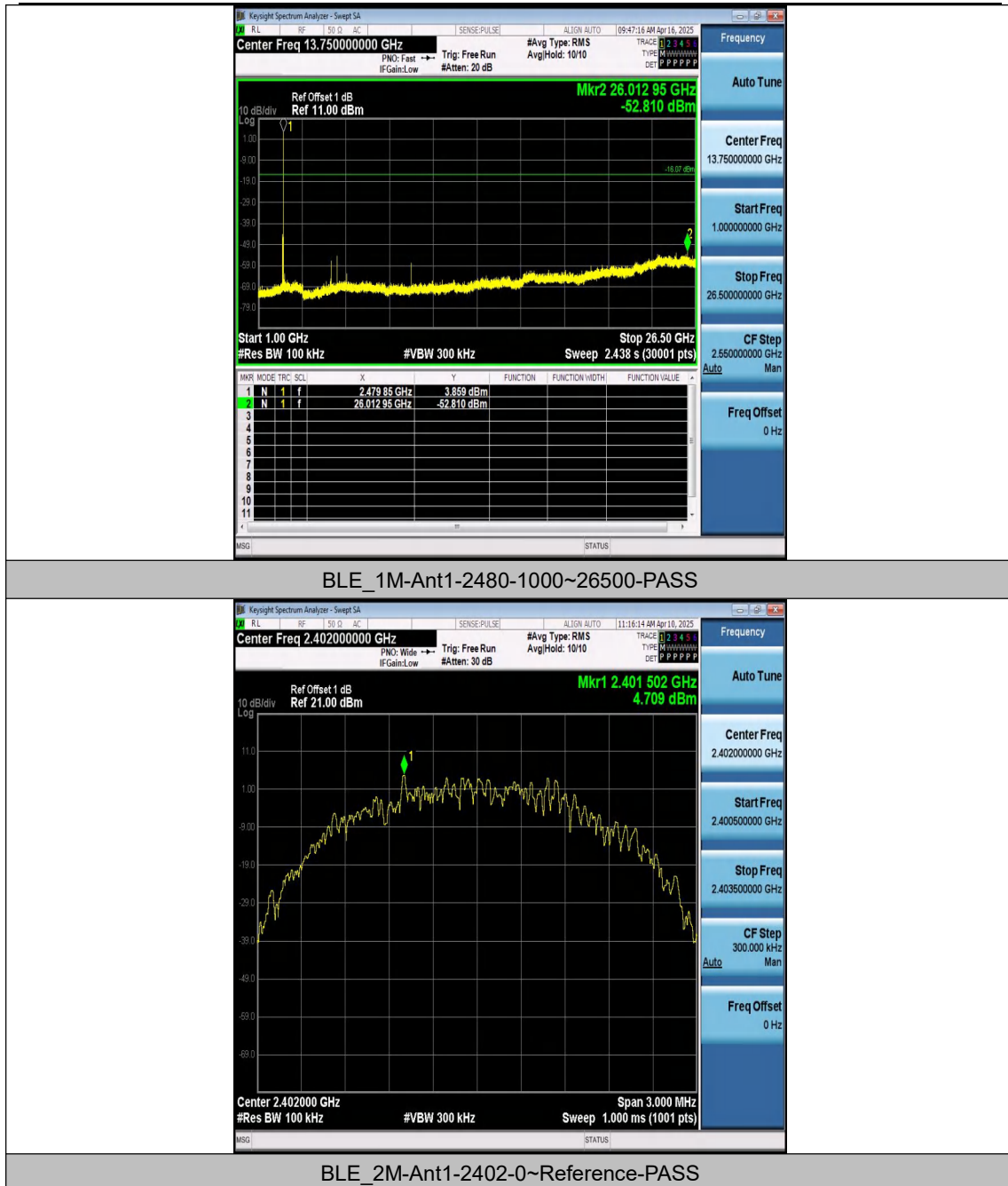


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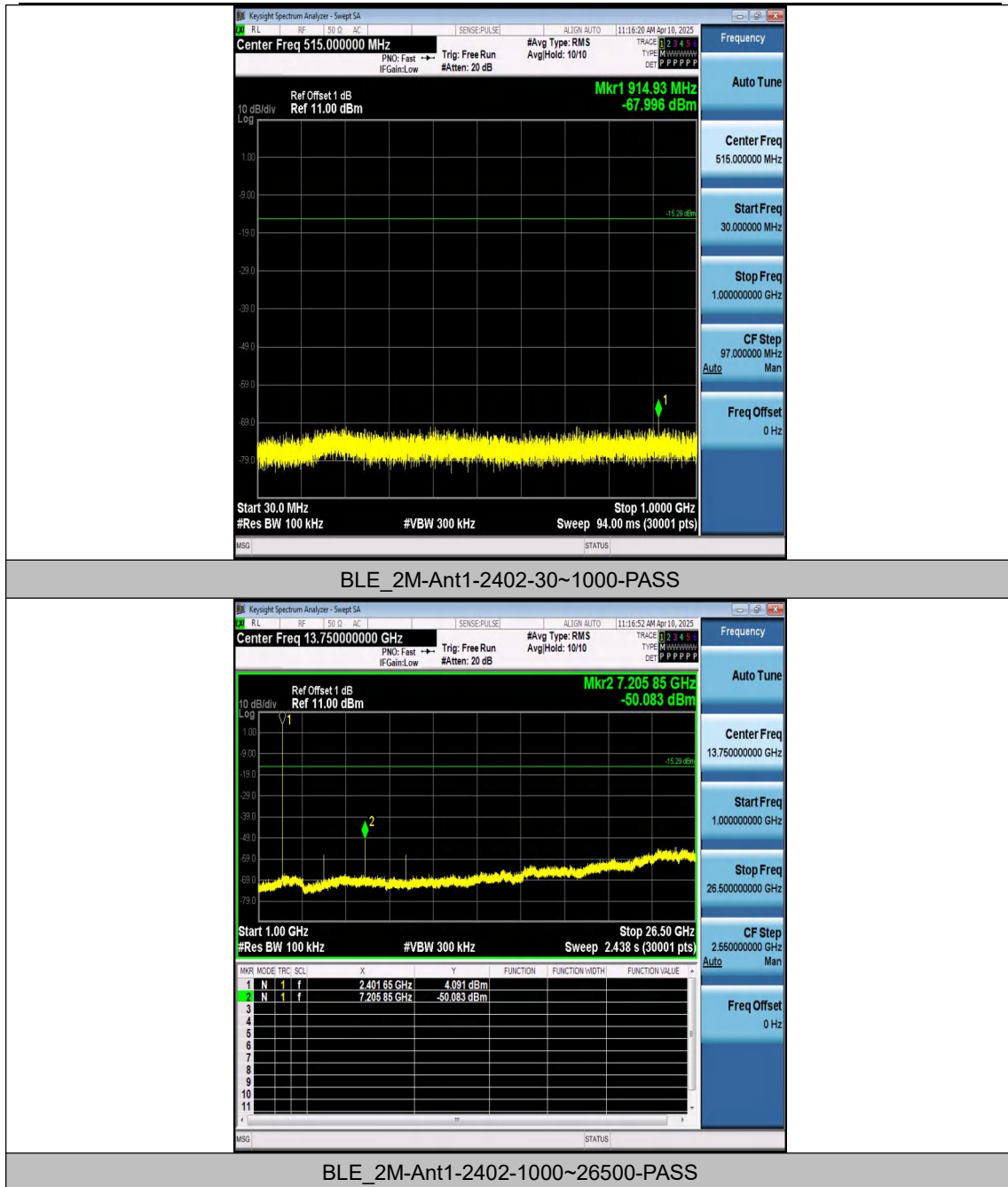
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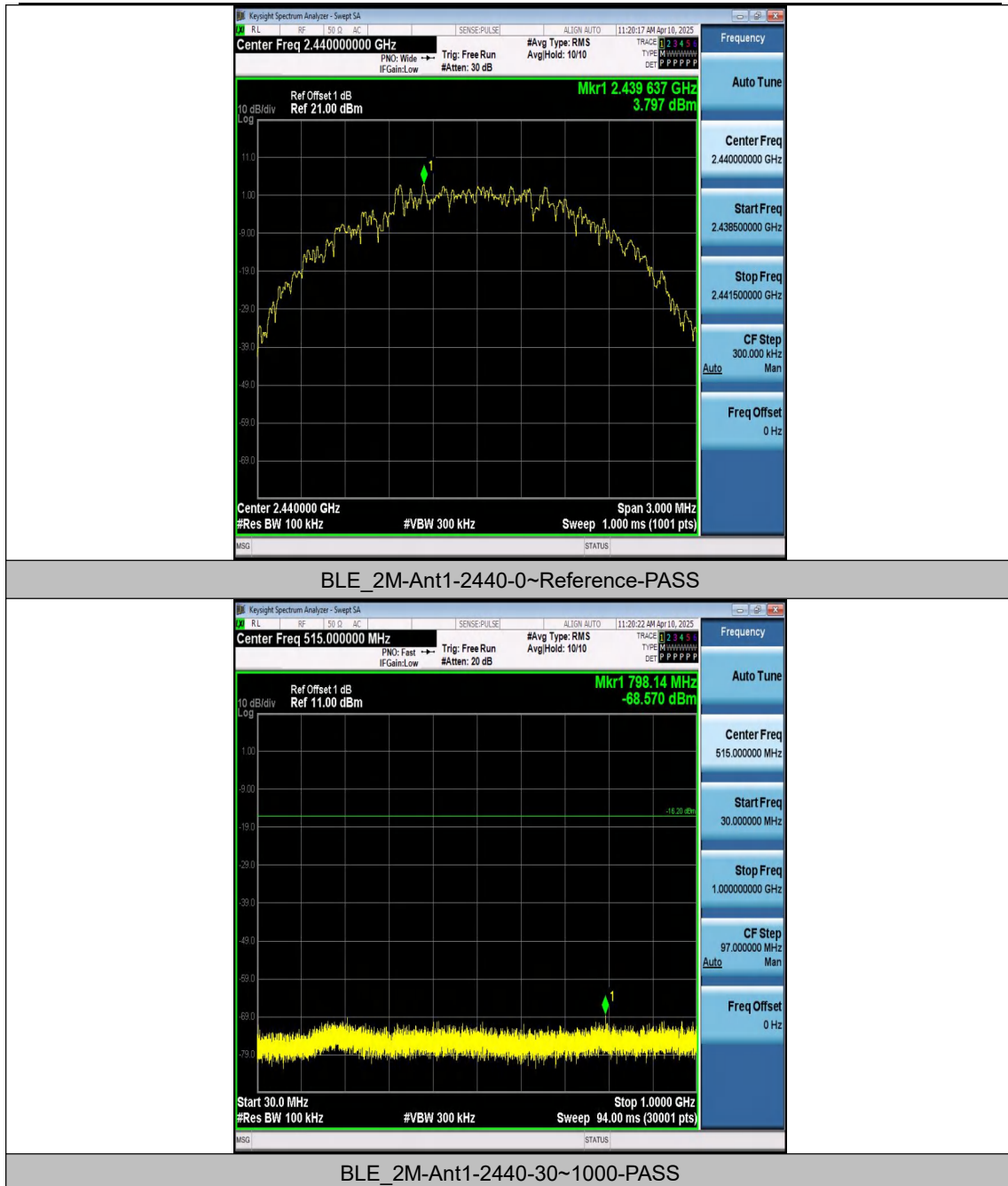


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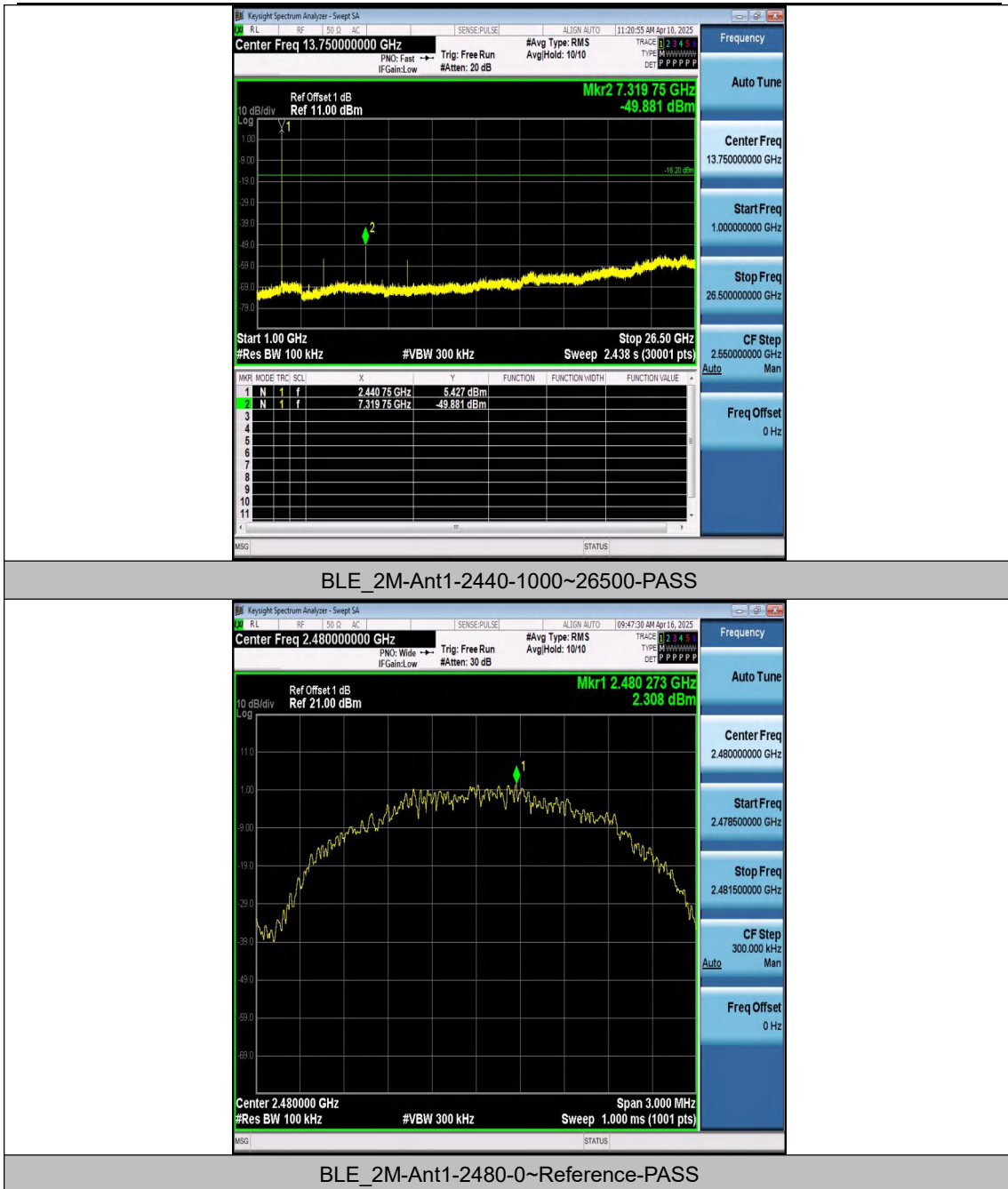


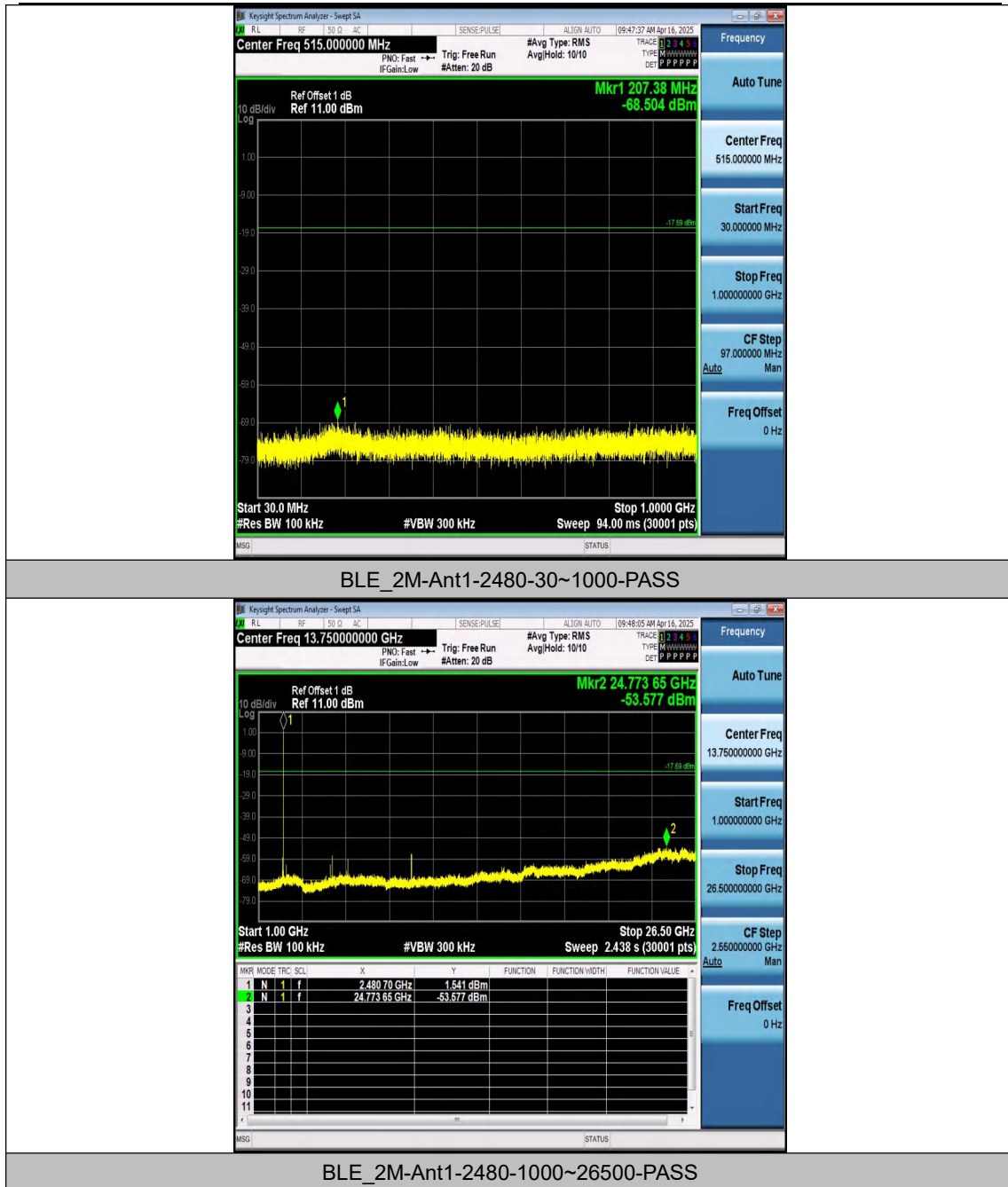


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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.00	0.00	100	0.00
BLE_1M	Ant1	2440	0.00	0.00	100	0.00
BLE_1M	Ant1	2480	0.00	0.00	100	0.00
BLE_2M	Ant1	2402	0.00	0.00	100	0.00
BLE_2M	Ant1	2440	0.00	0.00	100	0.00
BLE_2M	Ant1	2480	0.00	0.00	100	0.00

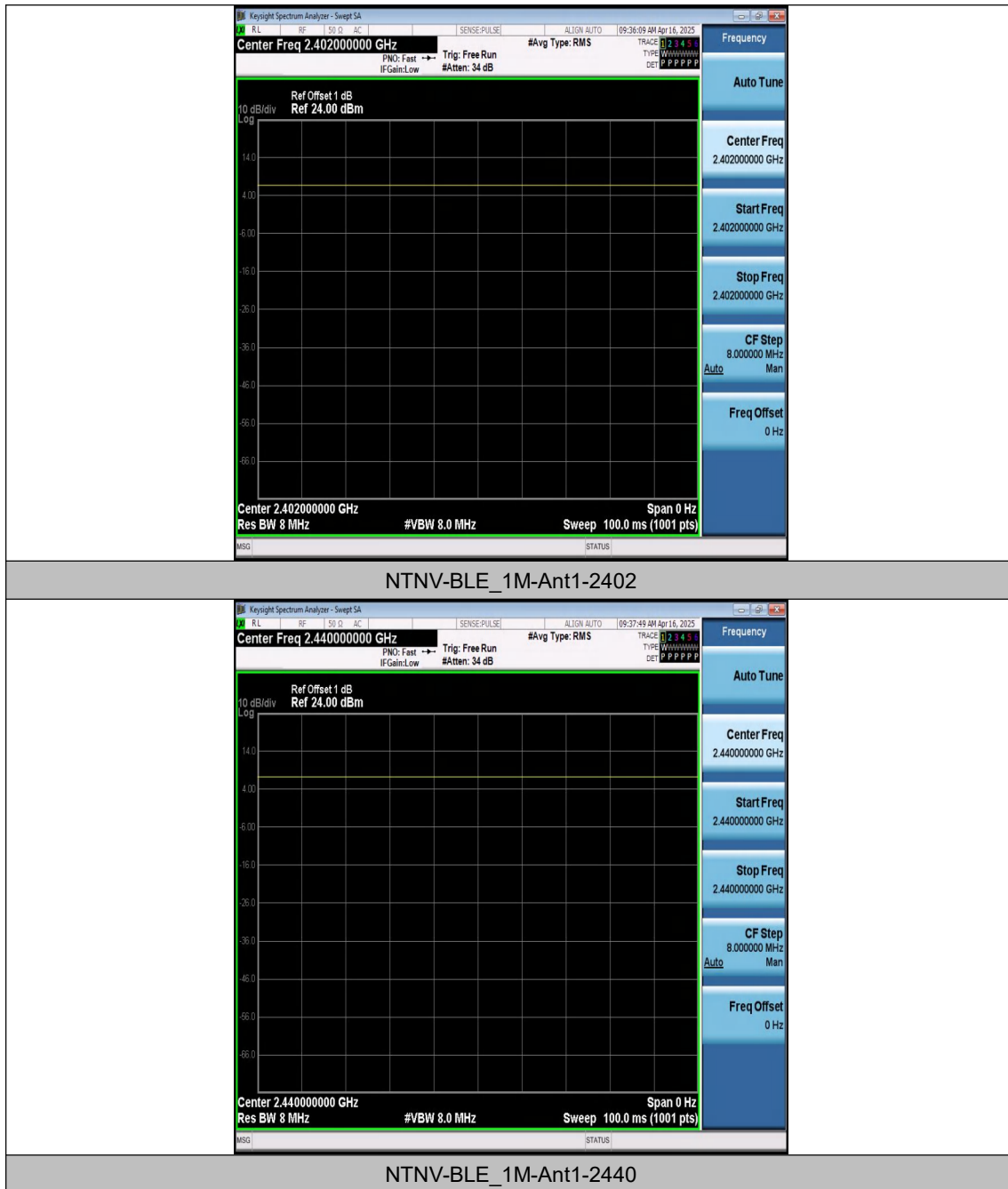
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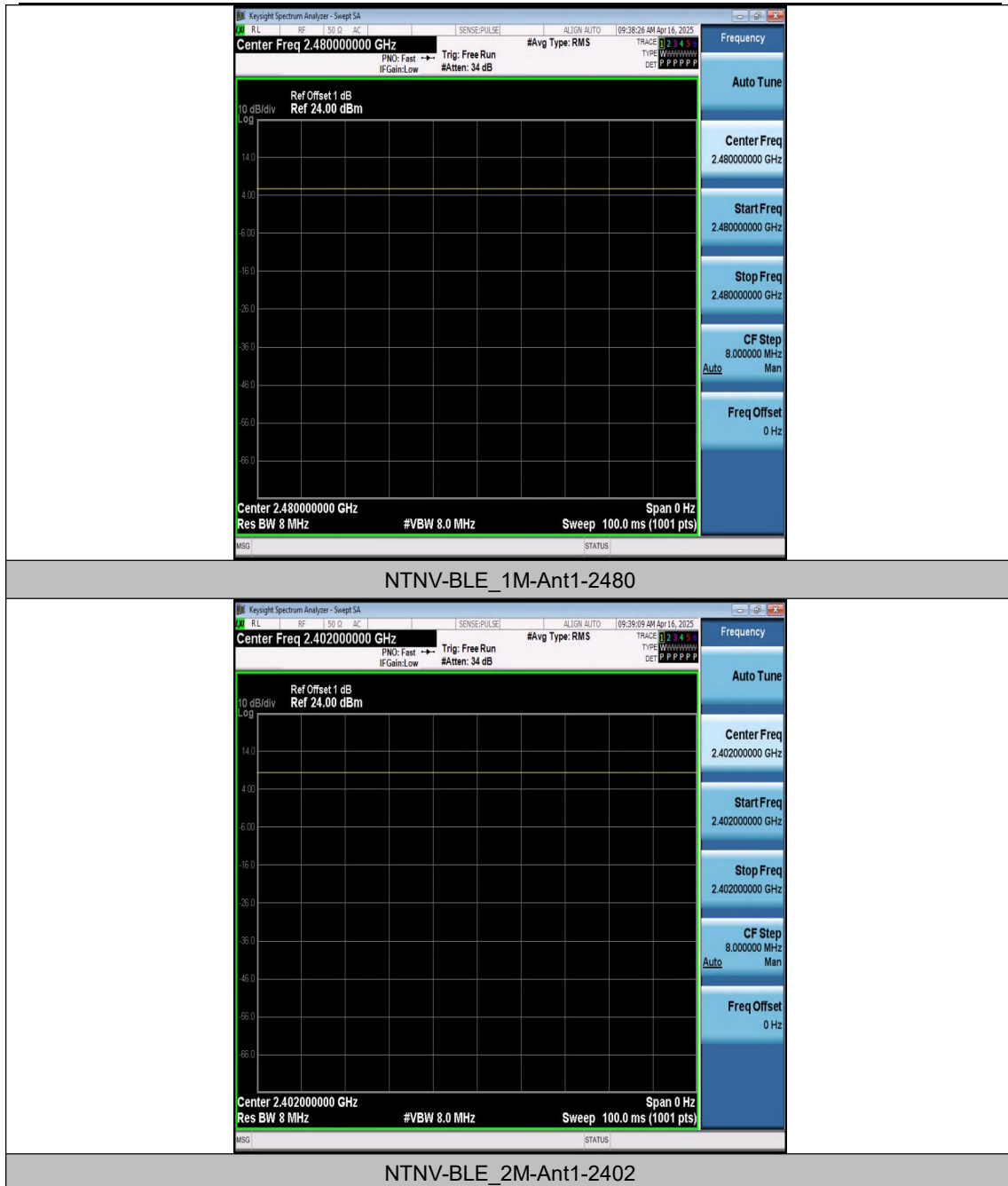
Test Graphs



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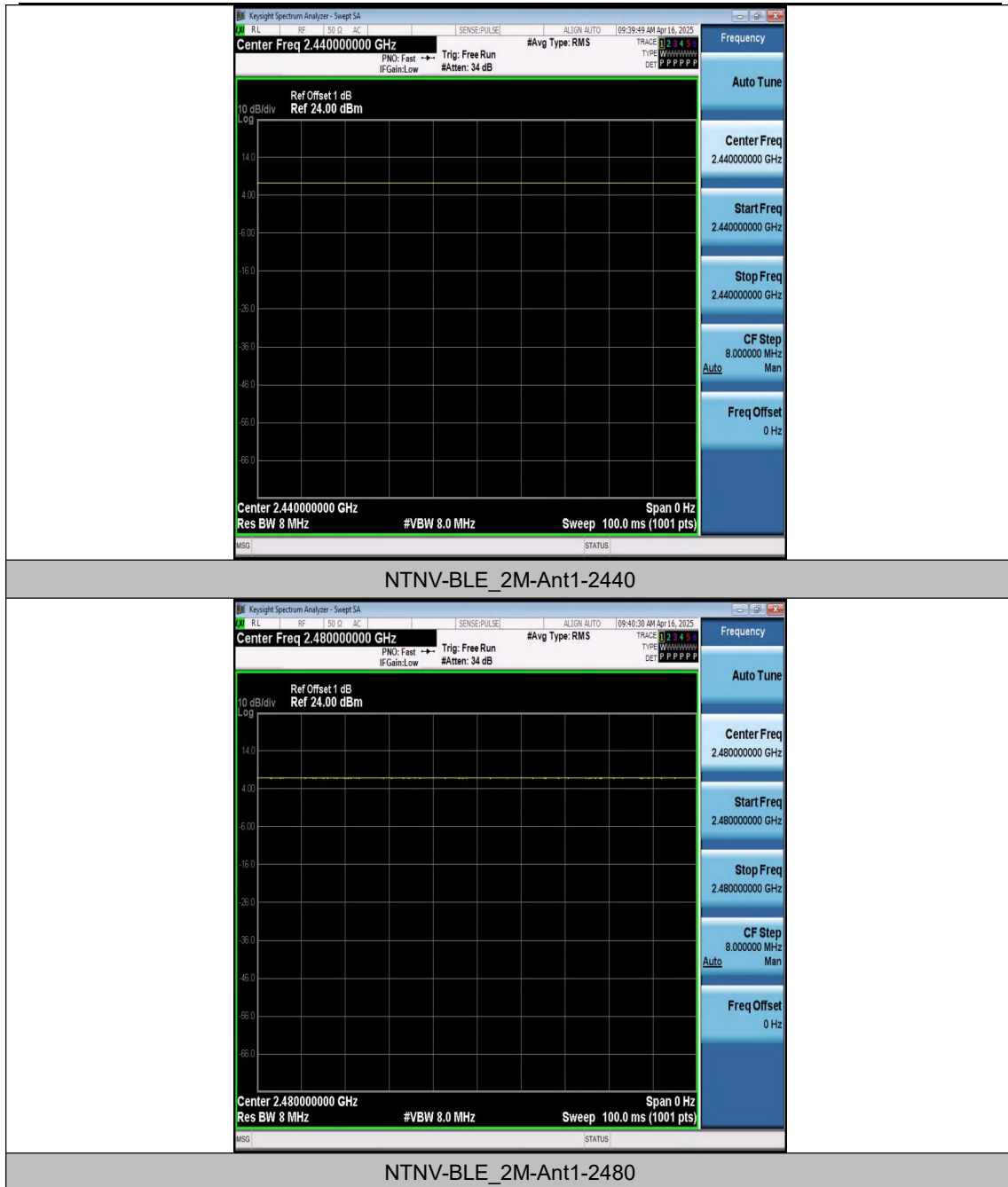


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