

Appendix Test Data

Report No.:	1812C40202112501	Test Sample No.:	1-2-2
Start Test Date:	2025.01.09	Finish Test Date:	2025.02.06
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.3°C	Relative Humidity:	49%
Pressure:	101kPa		

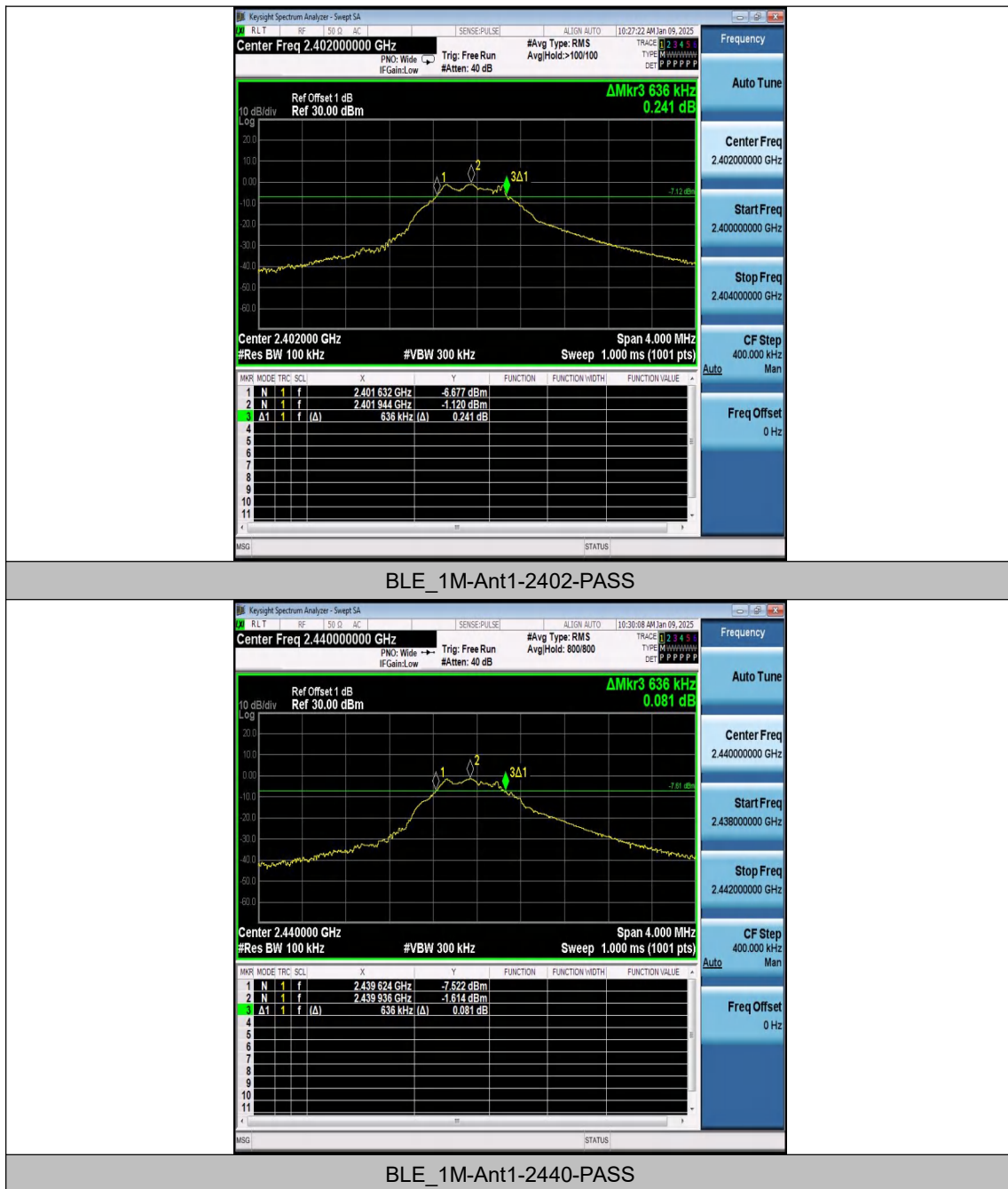
Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.636	2401.632	2402.268	0.5	PASS
BLE_1M	Ant1	2440	0.636	2439.624	2440.260	0.5	PASS
BLE_1M	Ant1	2480	0.676	2479.620	2480.296	0.5	PASS
BLE_2M	Ant1	2402	1.148	2401.348	2402.496	0.5	PASS
BLE_2M	Ant1	2440	1.208	2439.328	2440.536	0.5	PASS
BLE_2M	Ant1	2480	1.132	2479.332	2480.464	0.5	PASS



Test Graphs



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Appendix B: 99% Occupied Bandwidth

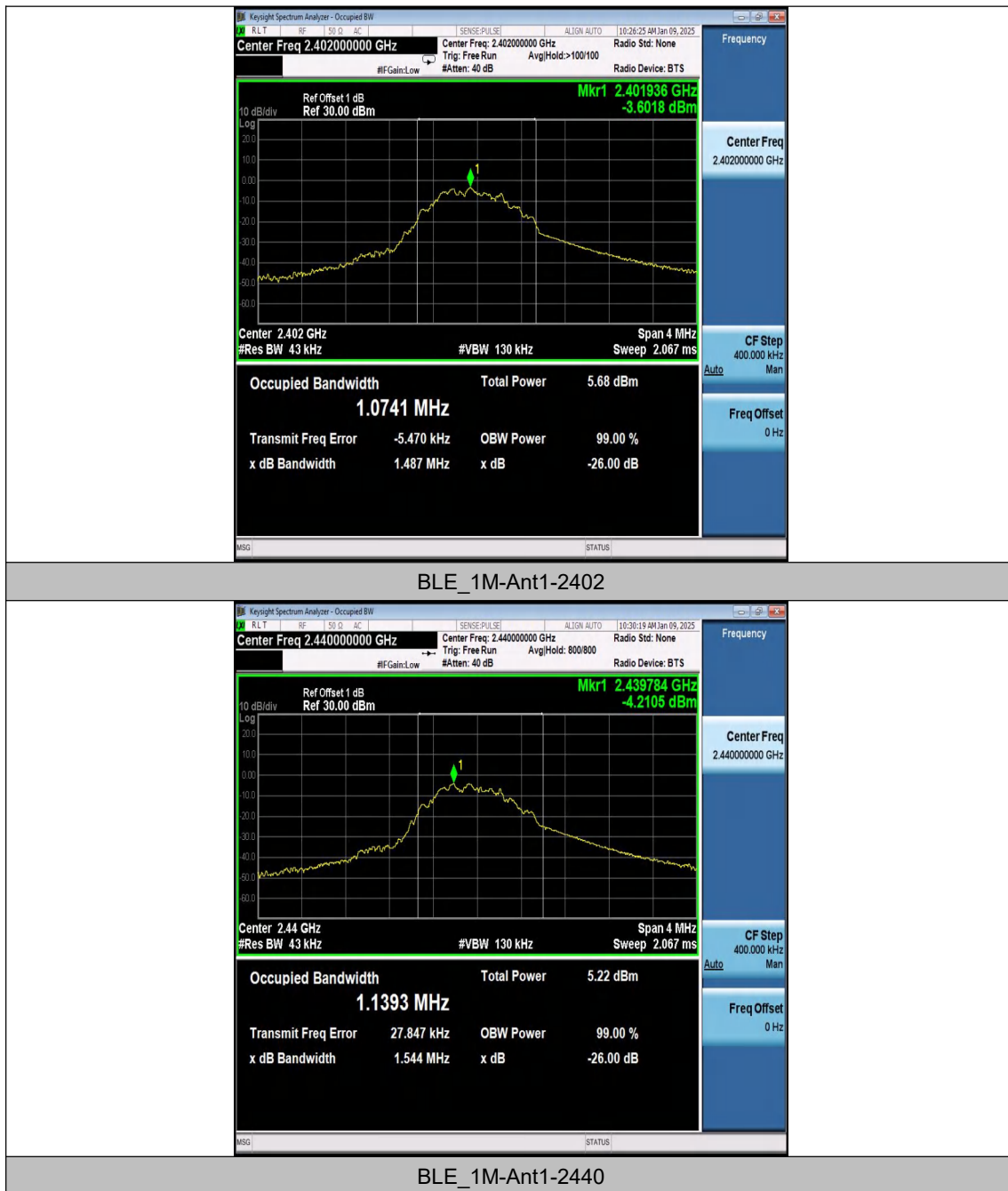
Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0741	2401.4551	2402.5292	---	---
BLE_1M	Ant1	2440	1.1393	2439.4582	2440.5975	---	---
BLE_1M	Ant1	2480	1.1664	2479.4564	2480.6228	---	---
BLE_2M	Ant1	2402	2.0270	2400.9766	2403.0036	---	---
BLE_2M	Ant1	2440	2.0271	2438.9756	2441.0027	---	---
BLE_2M	Ant1	2480	2.0306	2478.9739	2481.0045	---	---

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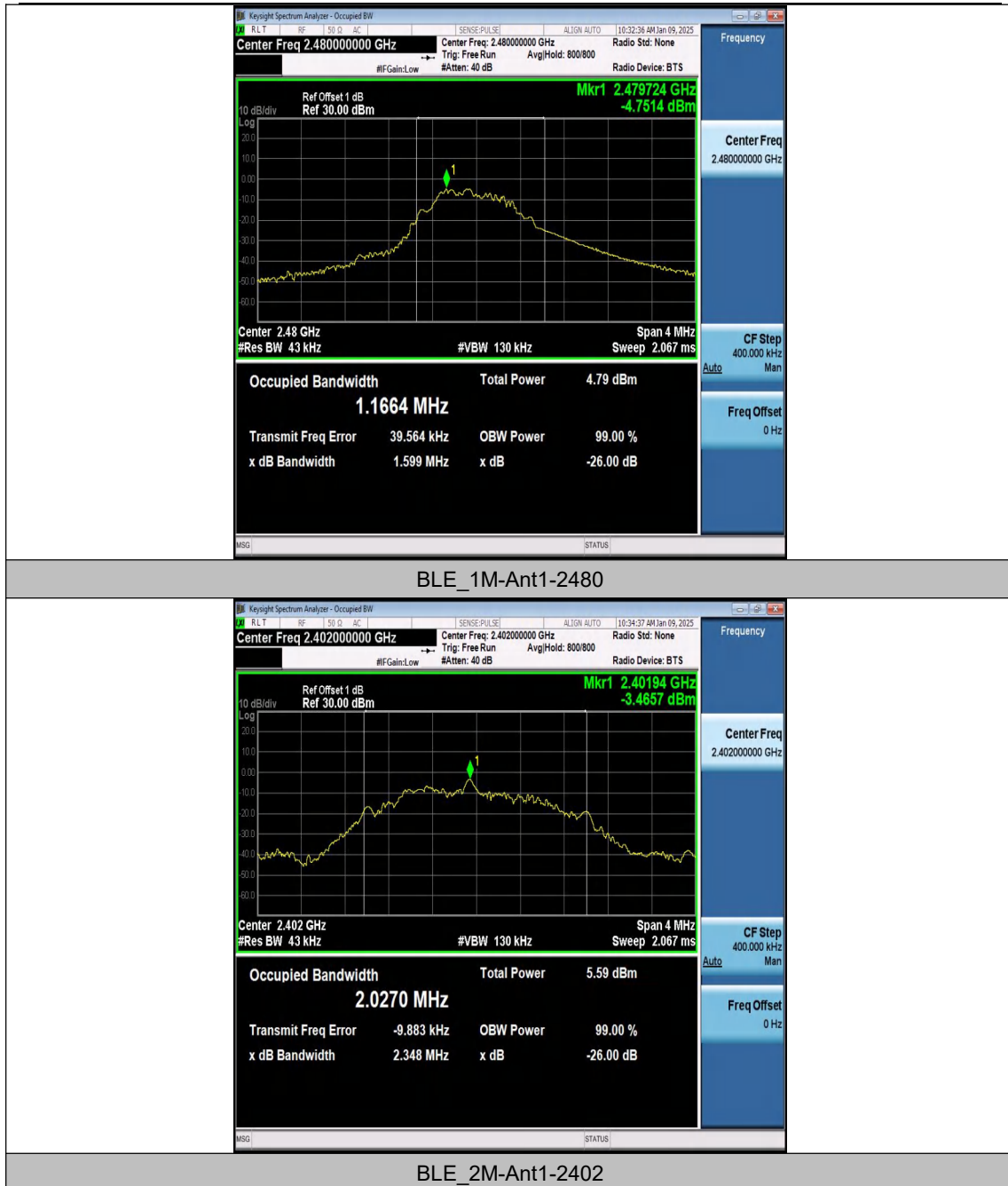
Test Graphs



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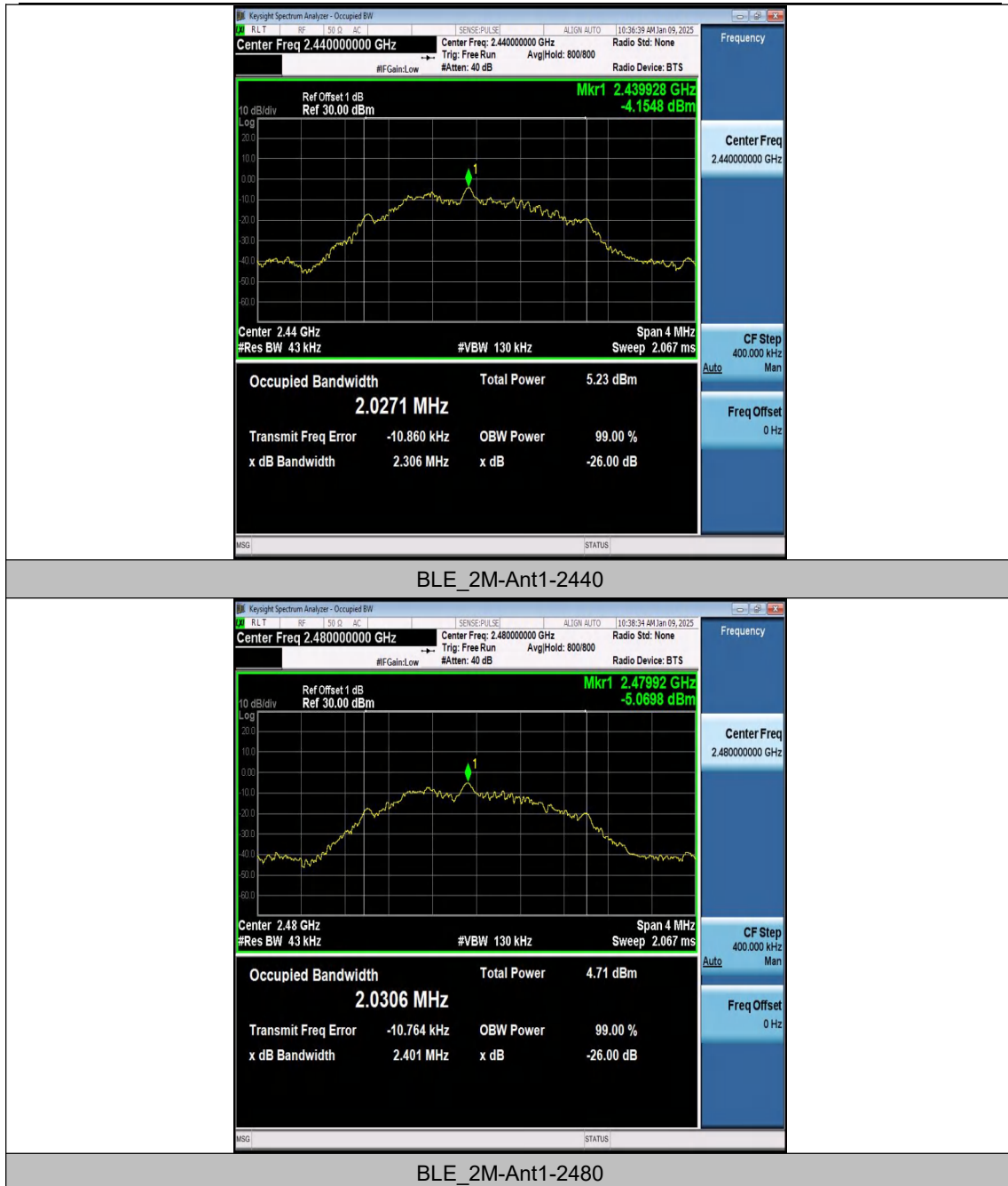


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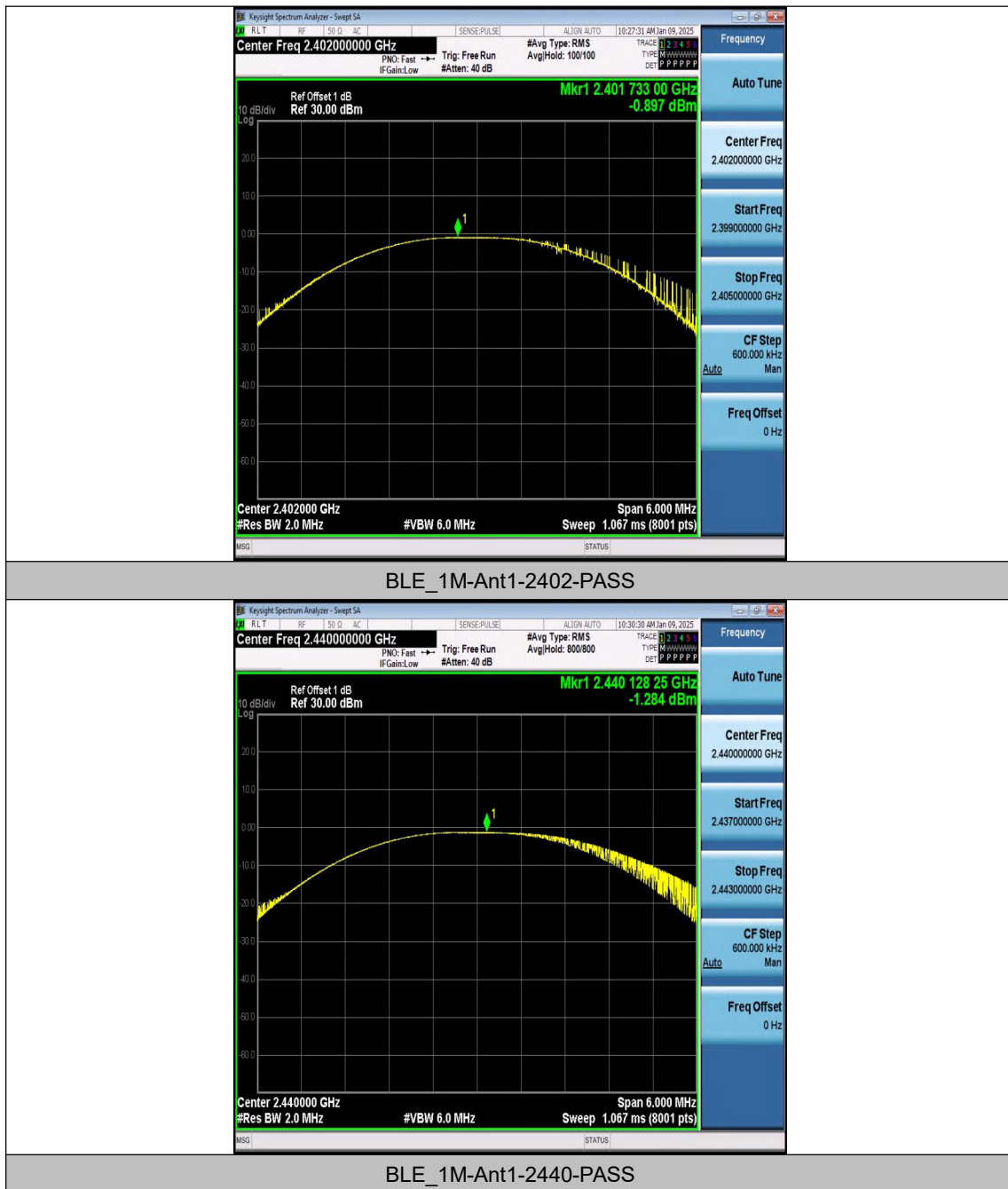
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.90	≤30	PASS
BLE_1M	Ant1	2440	-1.28	≤30	PASS
BLE_1M	Ant1	2480	-1.83	≤30	PASS
BLE_2M	Ant1	2402	-0.83	≤30	PASS
BLE_2M	Ant1	2440	-1.25	≤30	PASS
BLE_2M	Ant1	2480	-1.80	≤30	PASS



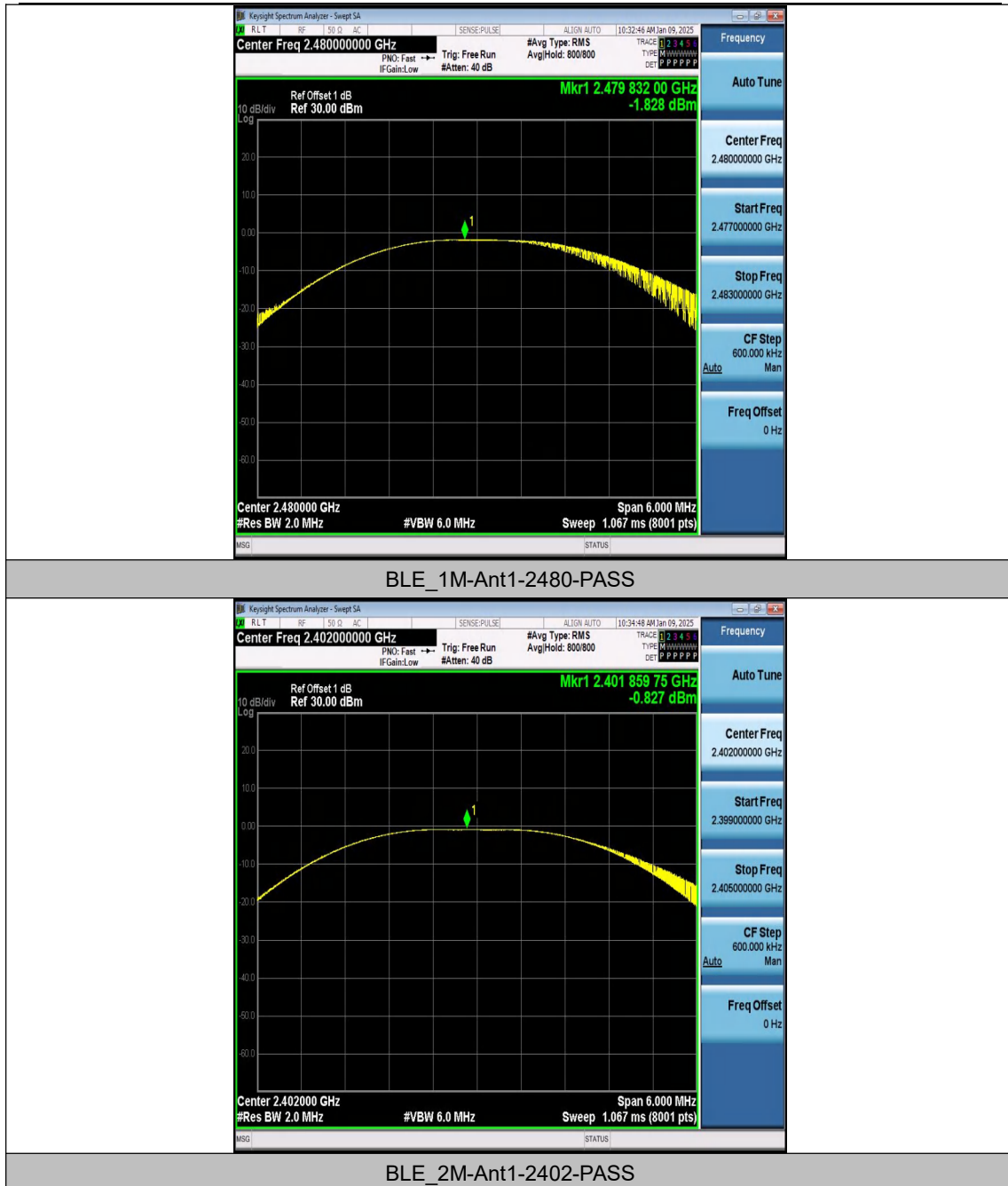
Test Graphs Peak



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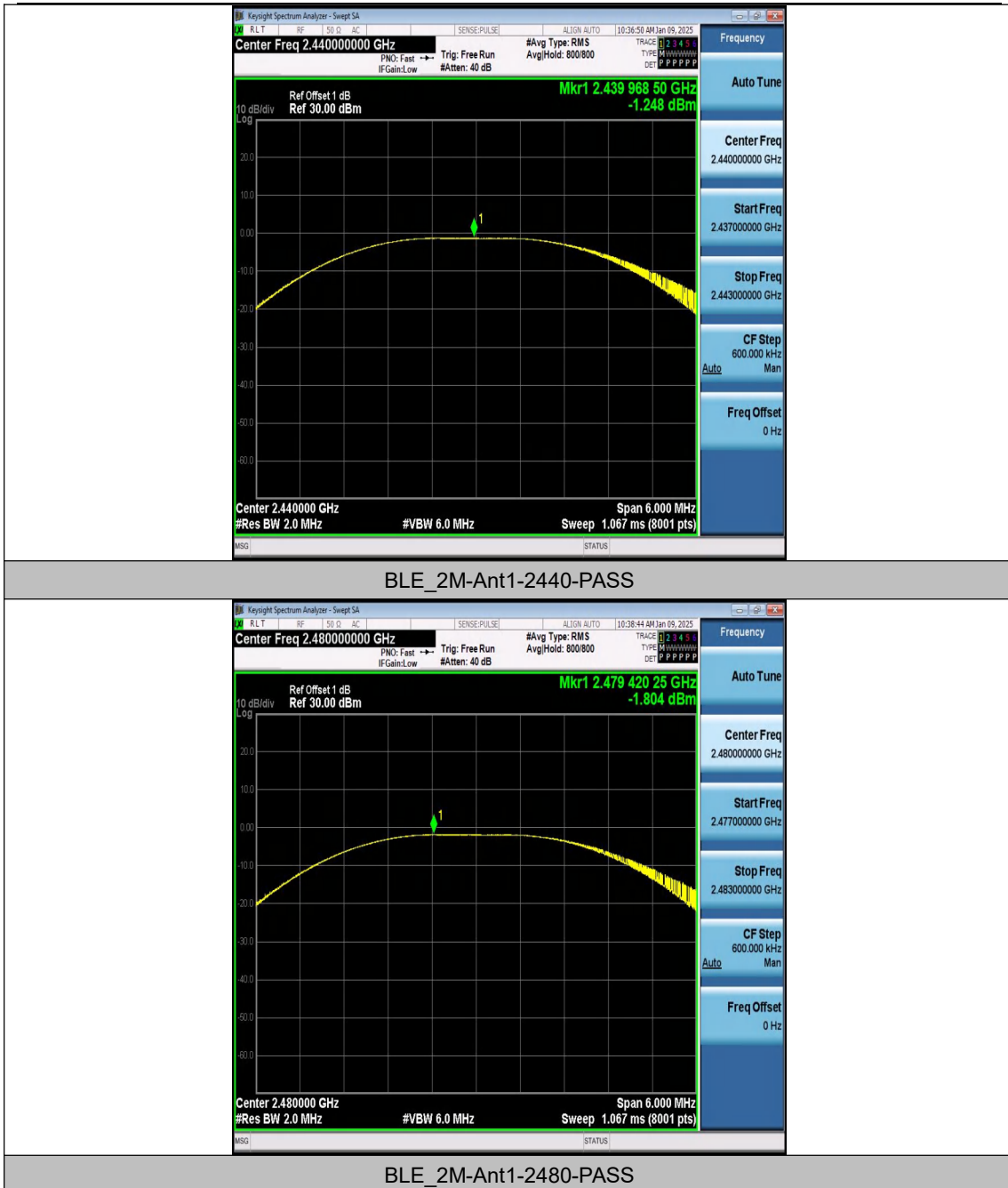


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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-4.69	-14.69	≤8.00	PASS
BLE_1M	Ant1	2440	-4.65	-14.65	≤8.00	PASS
BLE_1M	Ant1	2480	-5.43	-15.43	≤8.00	PASS
BLE_2M	Ant1	2402	-4.99	-14.99	≤8.00	PASS
BLE_2M	Ant1	2440	-5.64	-15.64	≤8.00	PASS
BLE_2M	Ant1	2480	-6.75	-16.75	≤8.00	PASS

Note: Result[dBm/3kHz]=Result[dBm/30kHz]+10*LOG10(3/30)



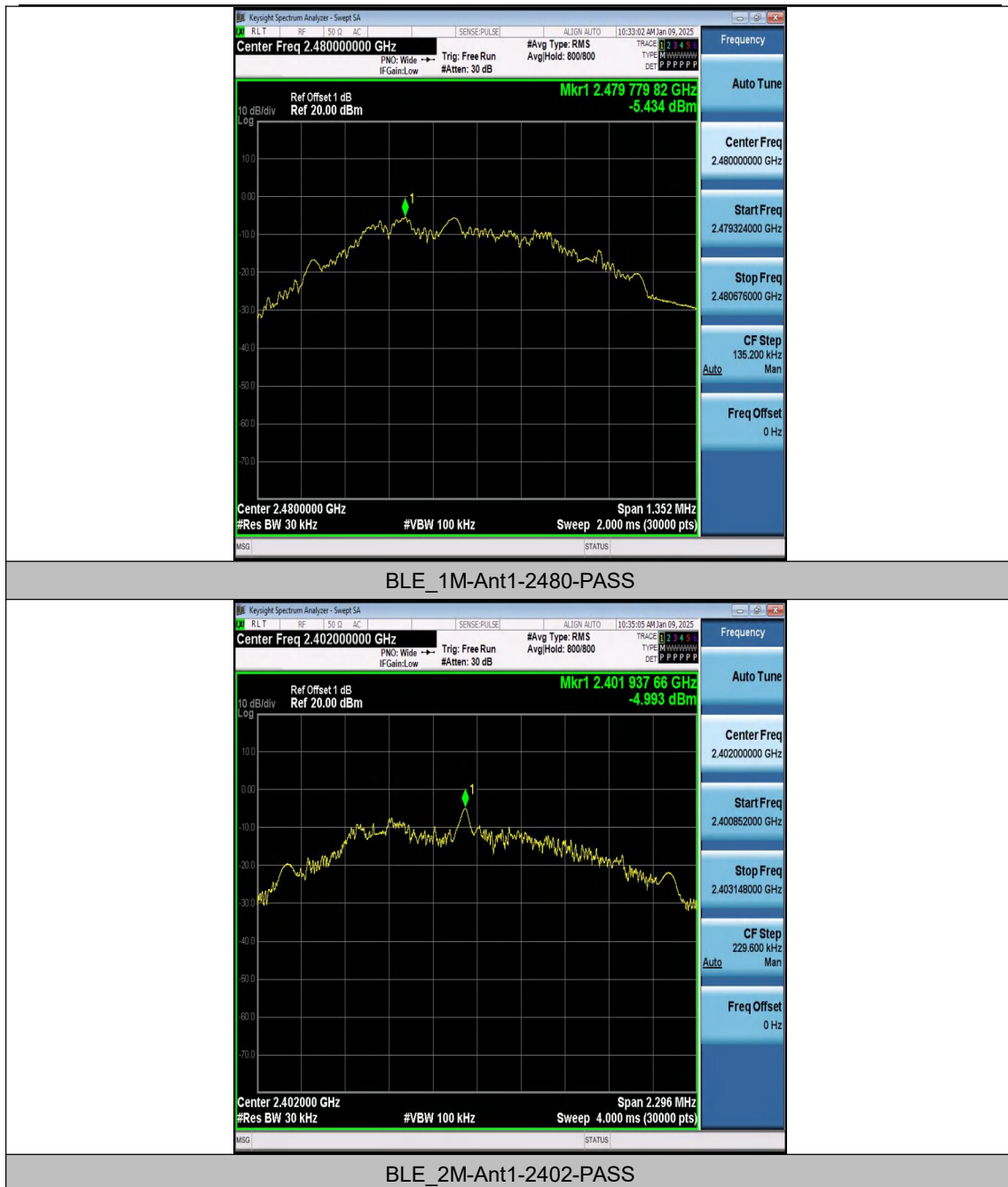
Test Graphs



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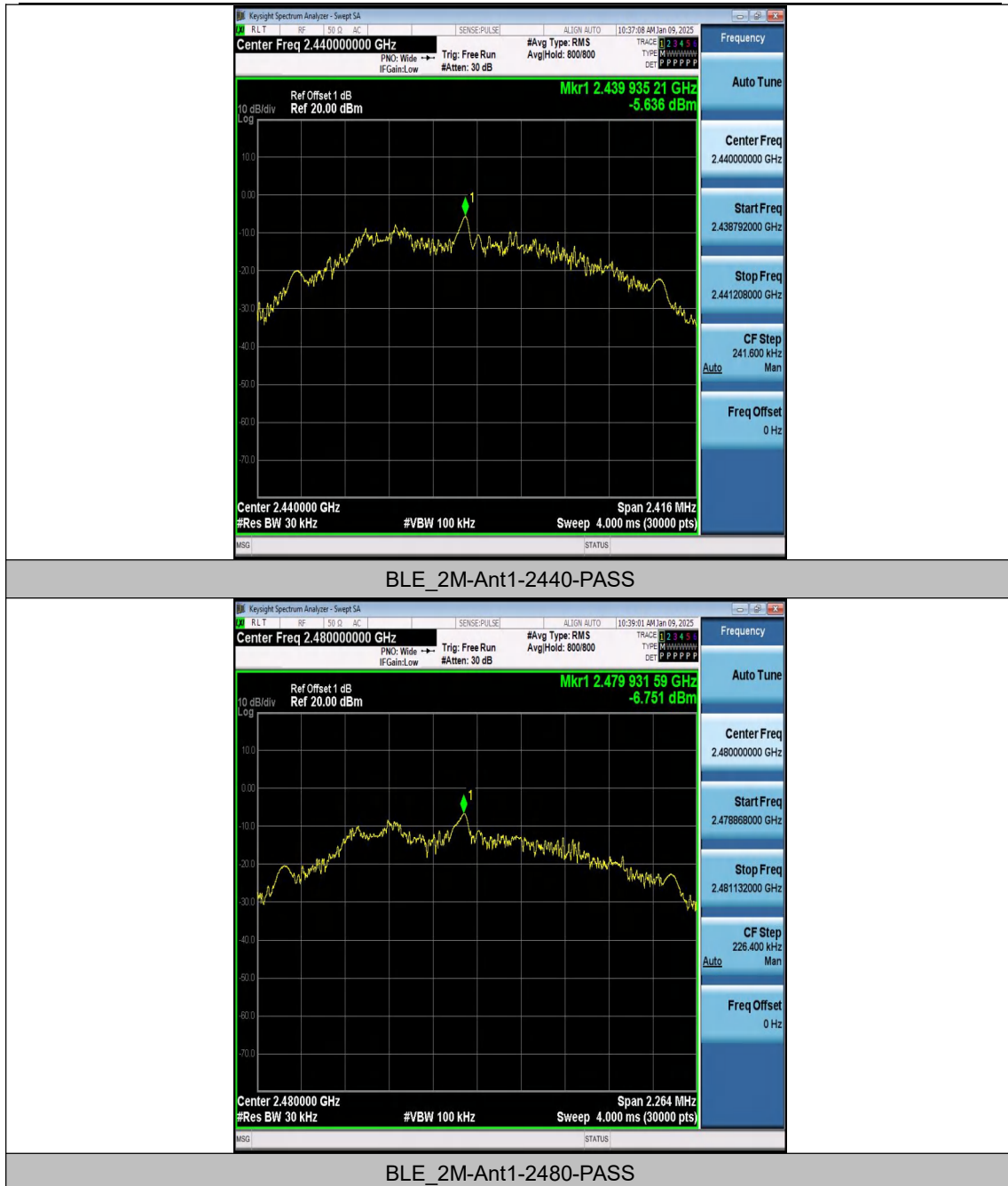
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Appendix E: Band edge measurements

Test Result

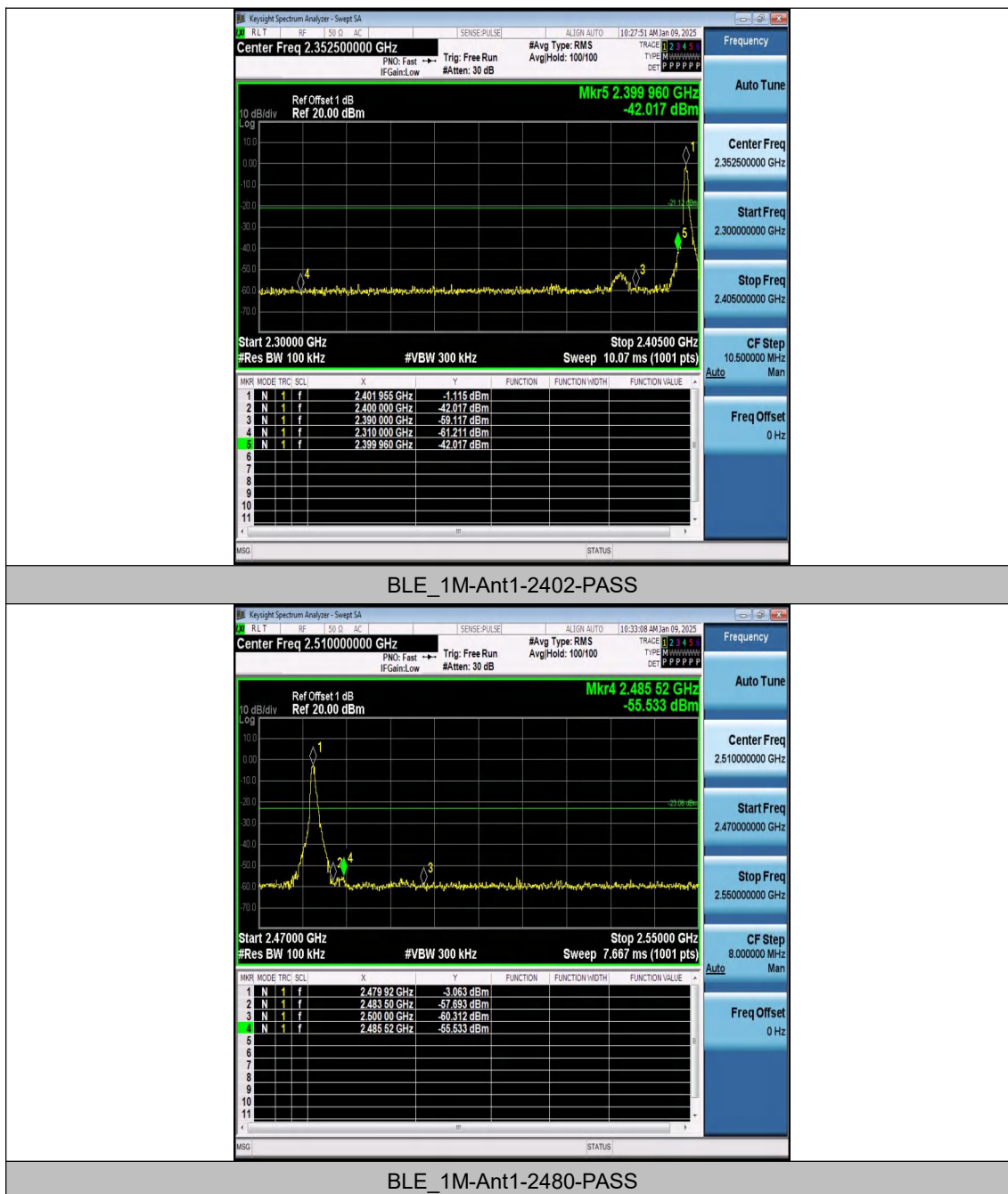
Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.12	-42.02	≤-21.12	PASS
BLE_1M	Ant1	High	2480	-3.06	-55.53	≤-23.06	PASS
BLE_2M	Ant1	Low	2402	-2.77	-36.06	≤-22.77	PASS
BLE_2M	Ant1	High	2480	-3.17	-54.52	≤-23.17	PASS

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Test Graphs

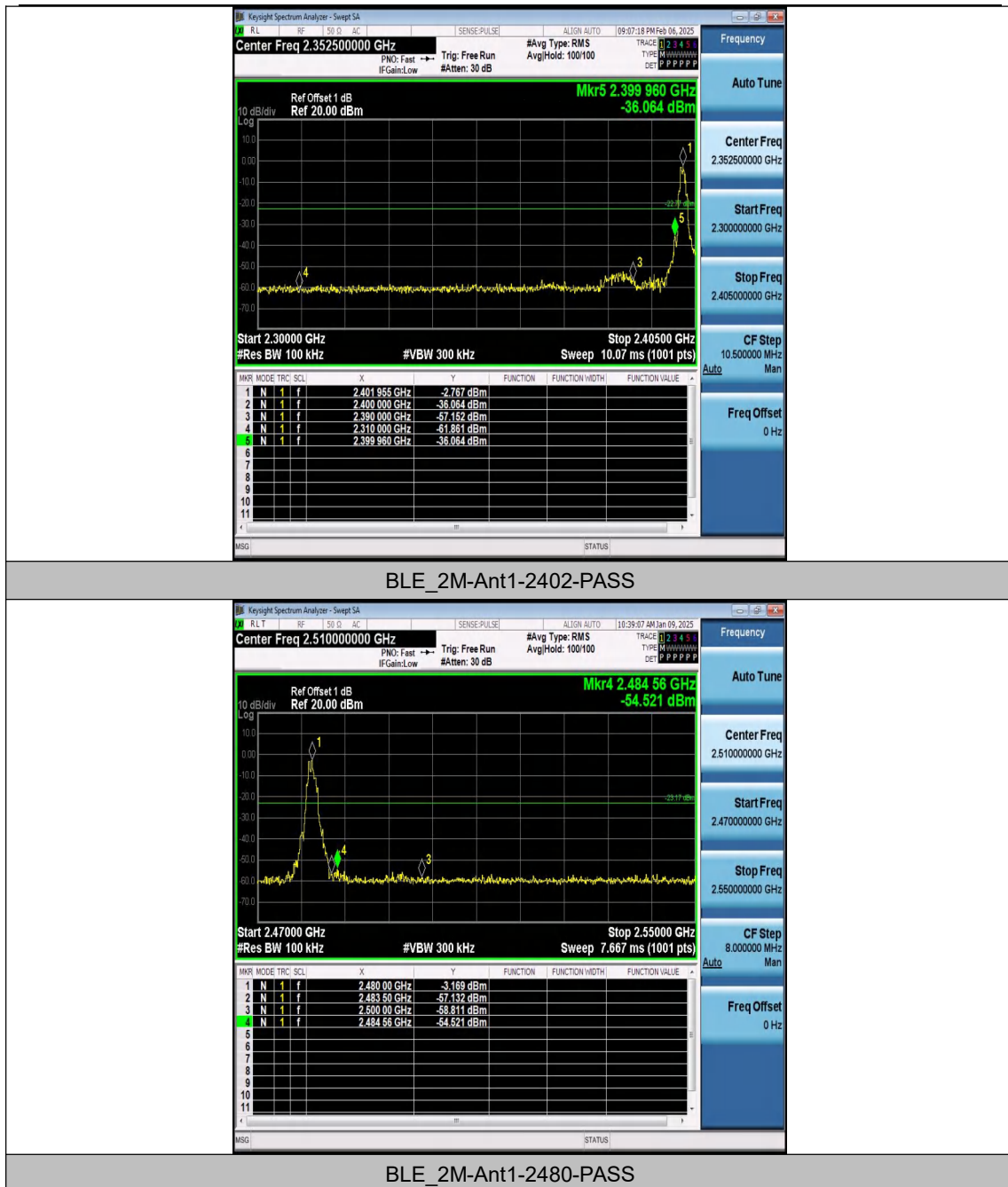


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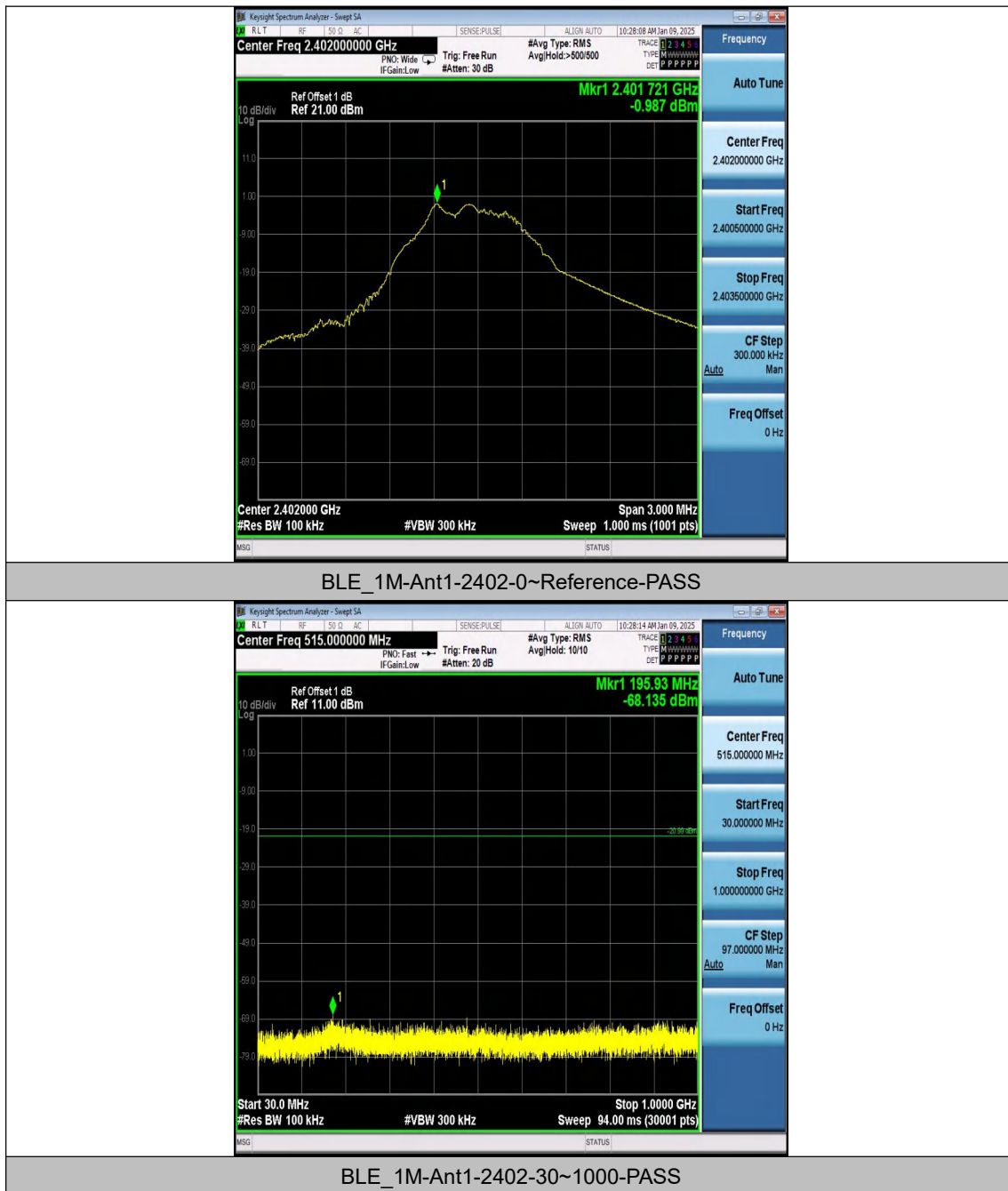
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.99	-0.99	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.99	-68.14	≤-20.99	PASS
BLE_1M	Ant1	2402	1000~26500	-0.99	-53.62	≤-20.99	PASS
BLE_1M	Ant1	2440	0~Reference	-1.65	-1.65	---	PASS
BLE_1M	Ant1	2440	30~1000	-1.65	-68.42	≤-21.65	PASS
BLE_1M	Ant1	2440	1000~26500	-1.65	-52.42	≤-21.65	PASS
BLE_1M	Ant1	2480	0~Reference	-2.38	-2.38	---	PASS
BLE_1M	Ant1	2480	30~1000	-2.38	-67.9	≤-22.38	PASS
BLE_1M	Ant1	2480	1000~26500	-2.38	-53.21	≤-22.38	PASS
BLE_2M	Ant1	2402	0~Reference	-1.15	-1.15	---	PASS
BLE_2M	Ant1	2402	30~1000	-1.15	-68.7	≤-21.15	PASS
BLE_2M	Ant1	2402	1000~26500	-1.15	-53.71	≤-21.15	PASS
BLE_2M	Ant1	2440	0~Reference	-1.67	-1.67	---	PASS
BLE_2M	Ant1	2440	30~1000	-1.67	-68.82	≤-21.67	PASS
BLE_2M	Ant1	2440	1000~26500	-1.67	-53.1	≤-21.67	PASS
BLE_2M	Ant1	2480	0~Reference	-2.40	-2.40	---	PASS
BLE_2M	Ant1	2480	30~1000	-2.40	-68.22	≤-22.4	PASS
BLE_2M	Ant1	2480	1000~26500	-2.40	-53.23	≤-22.4	PASS



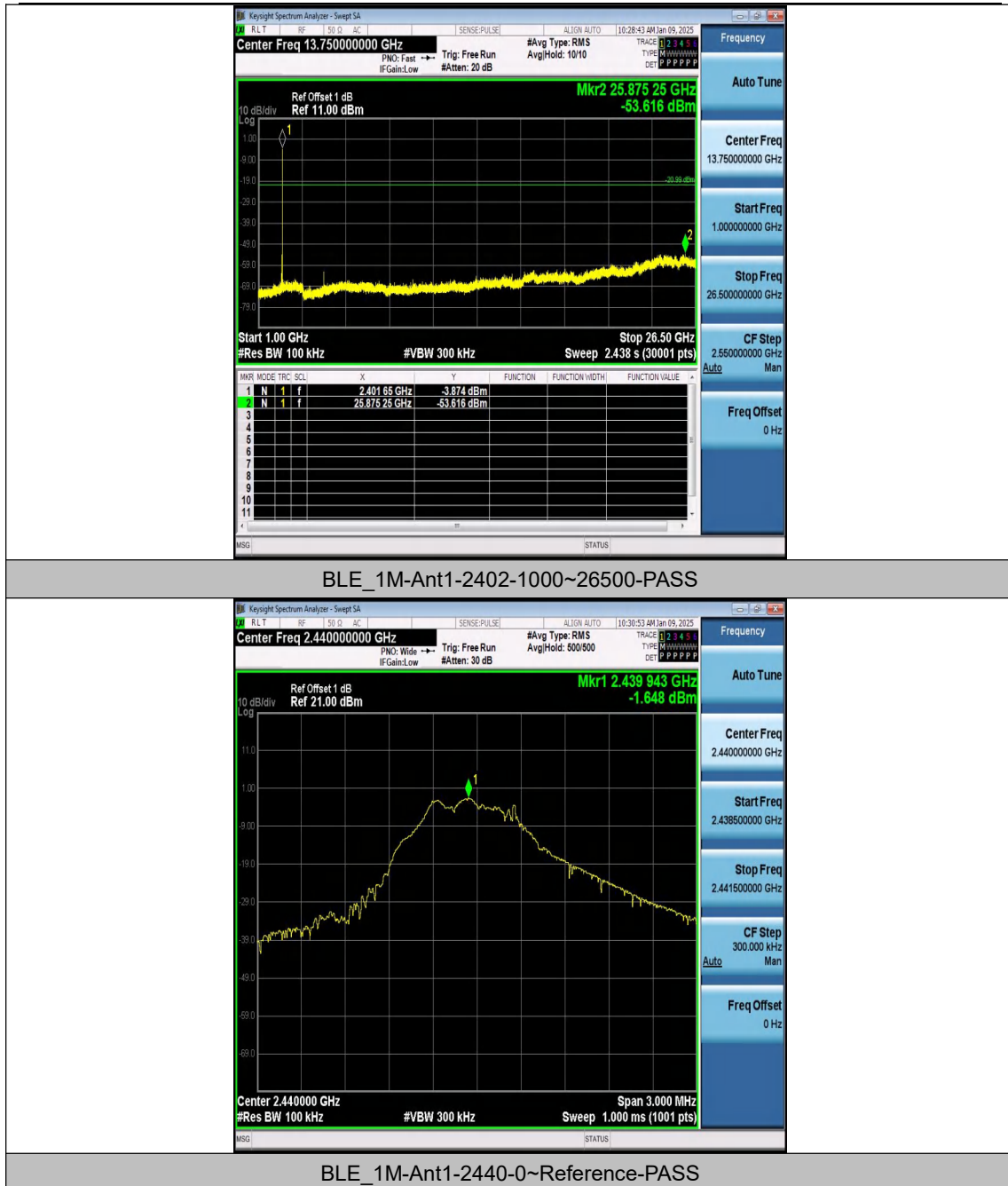
Test Graphs

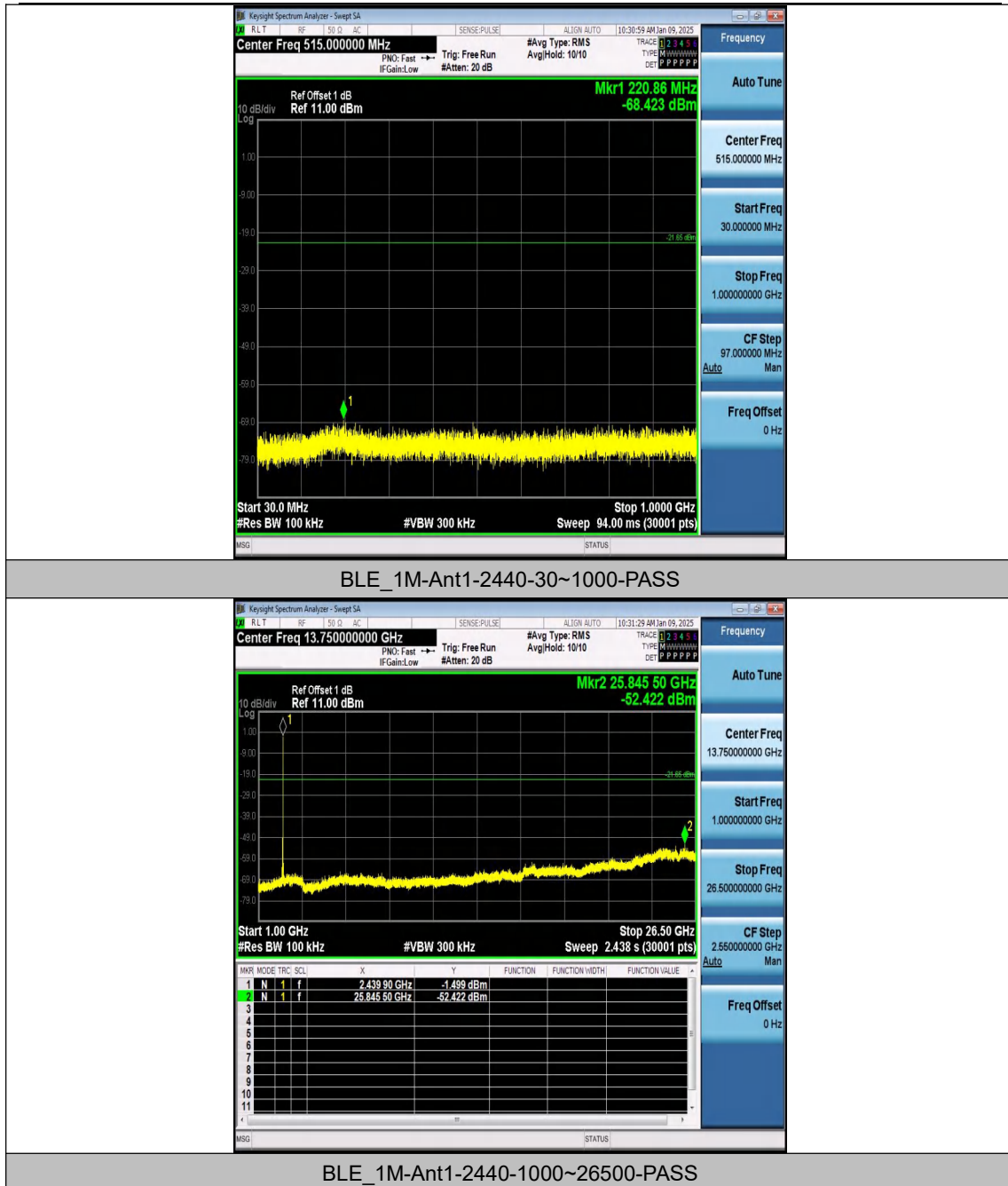


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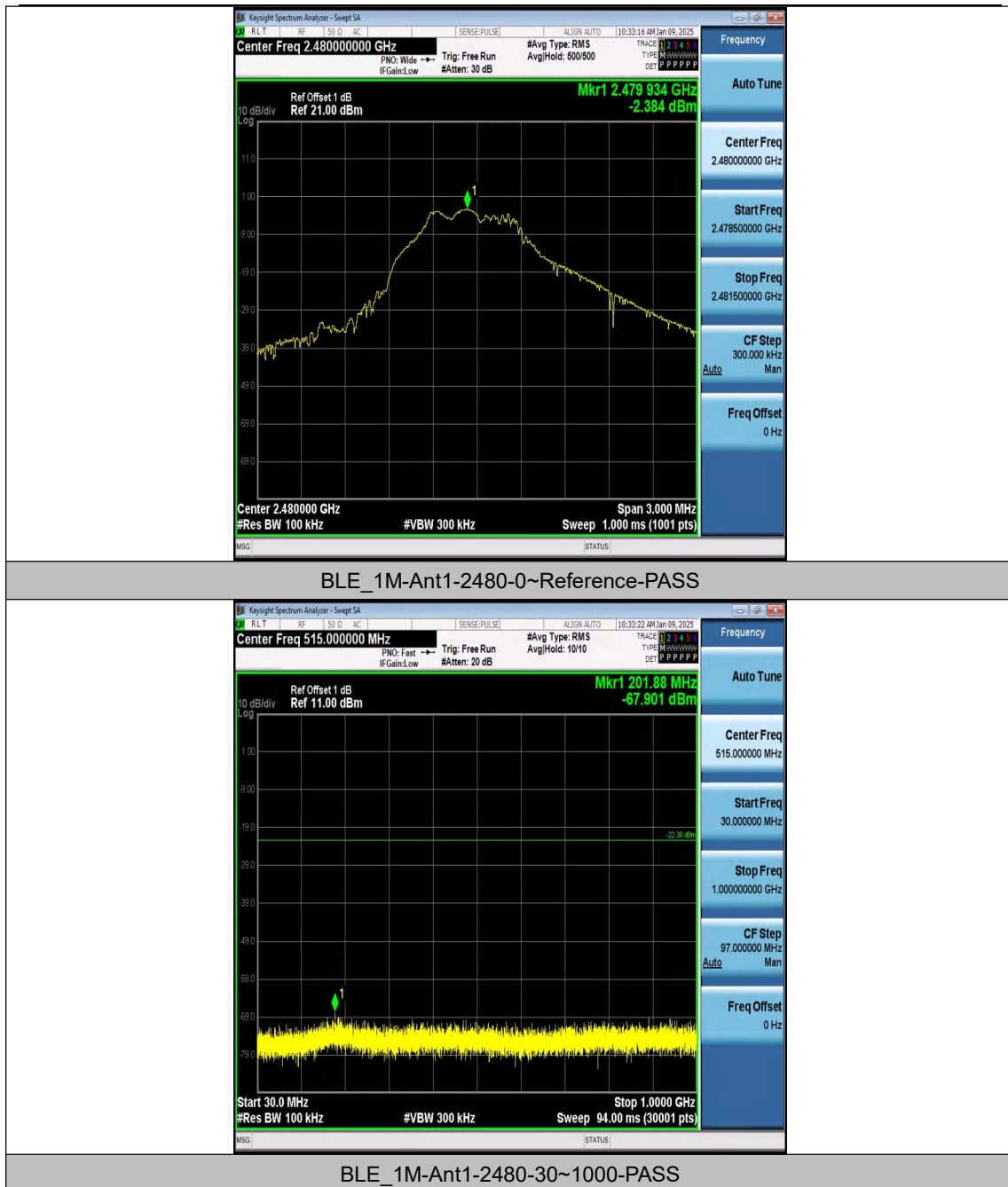




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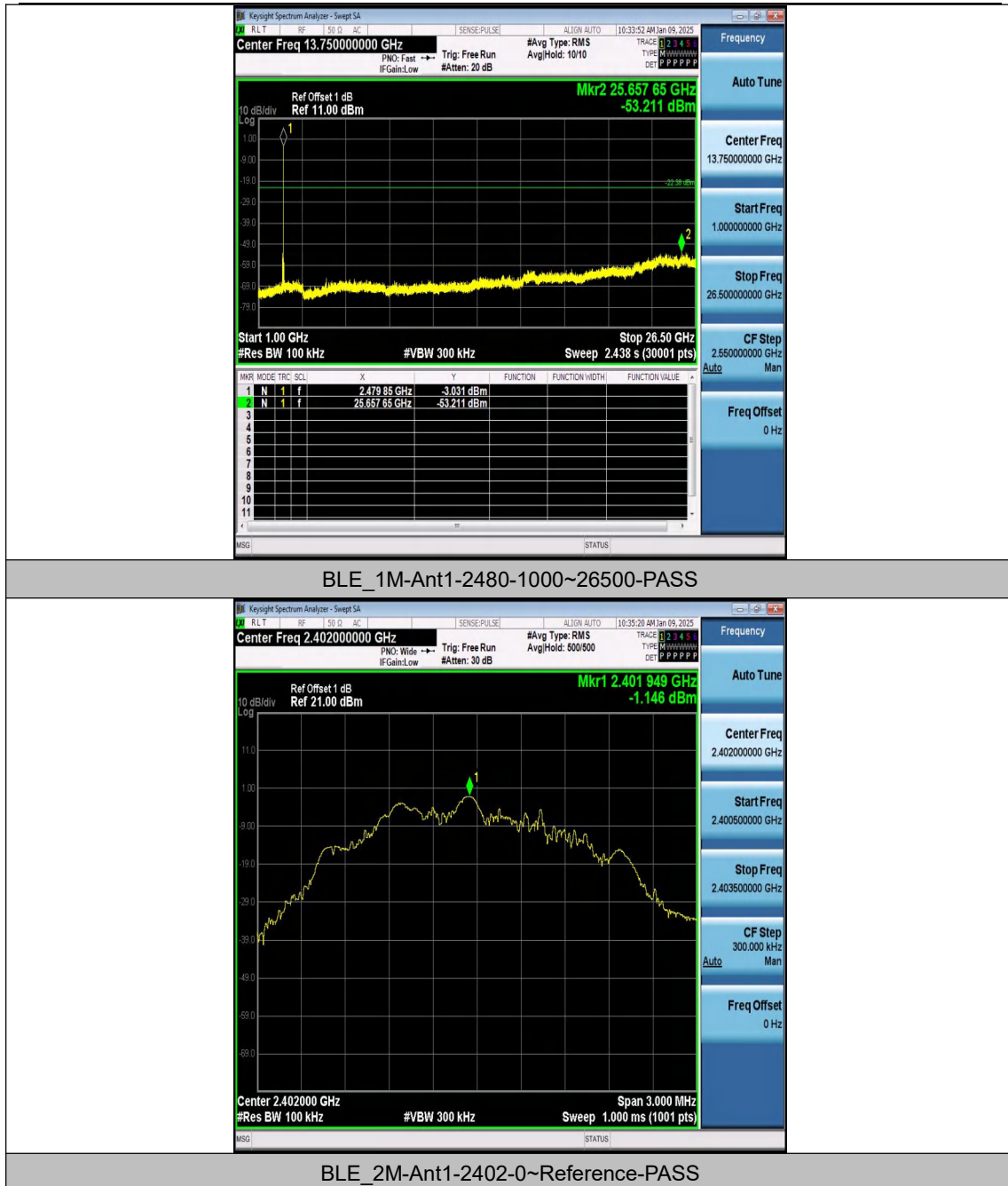


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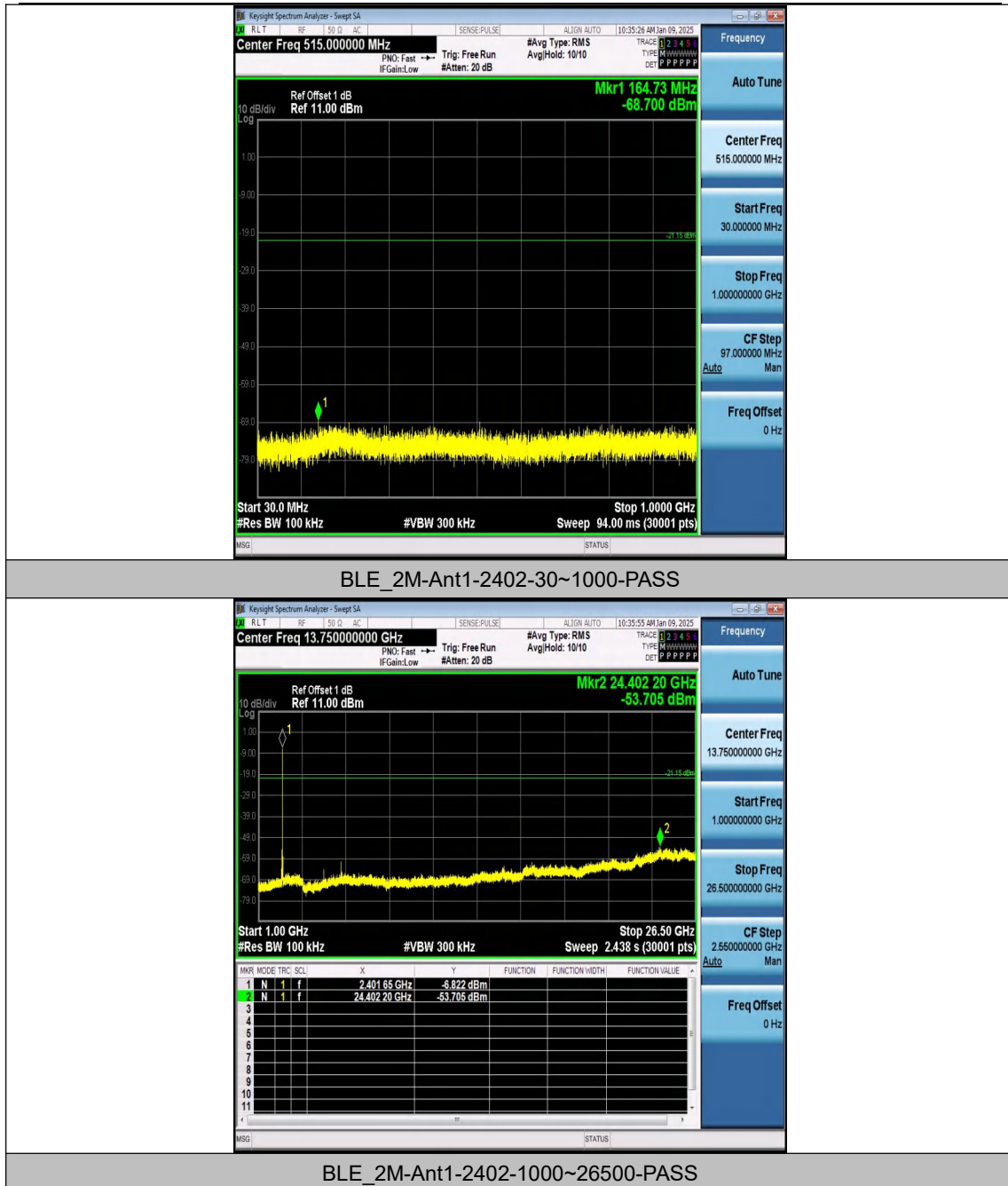
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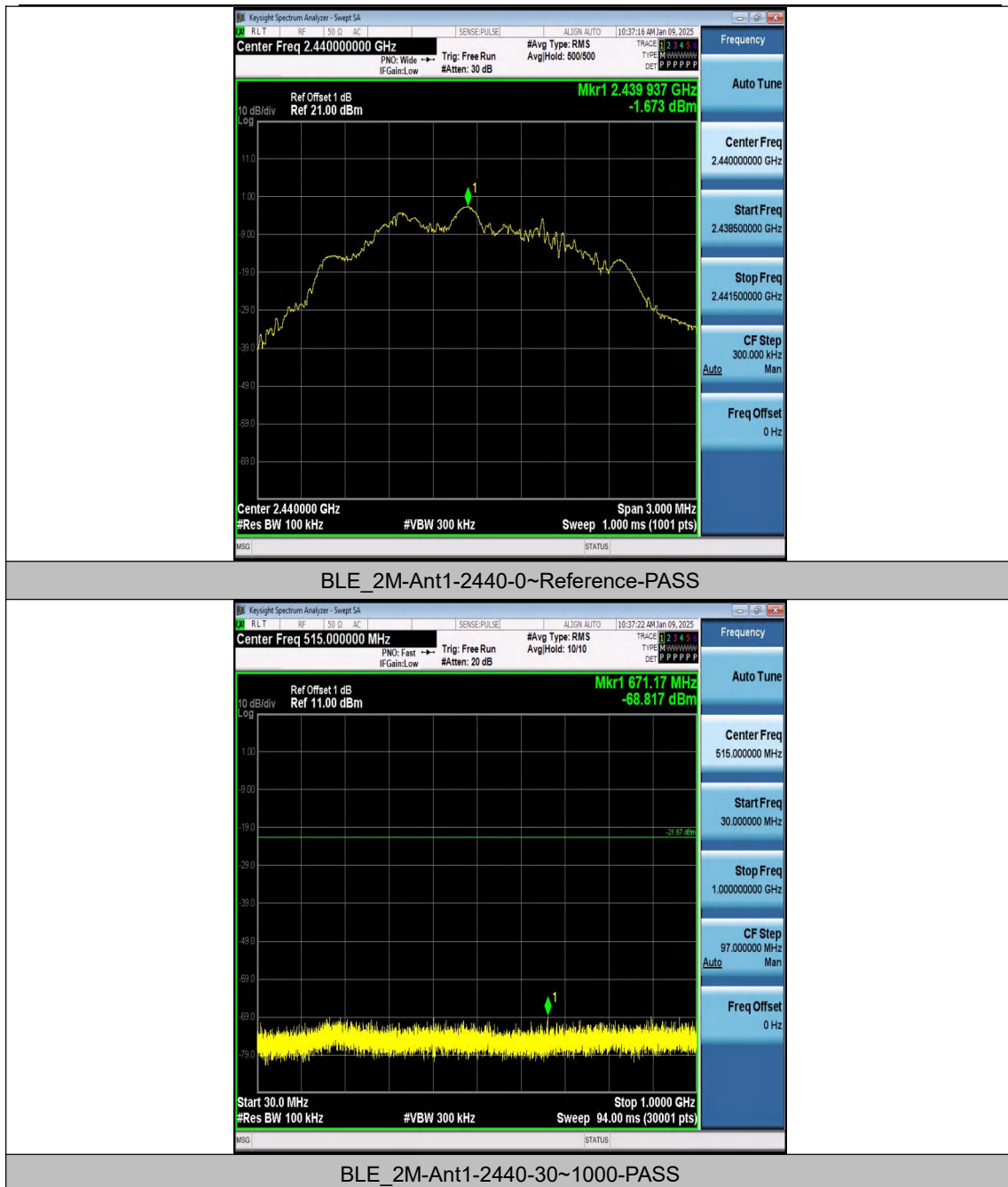
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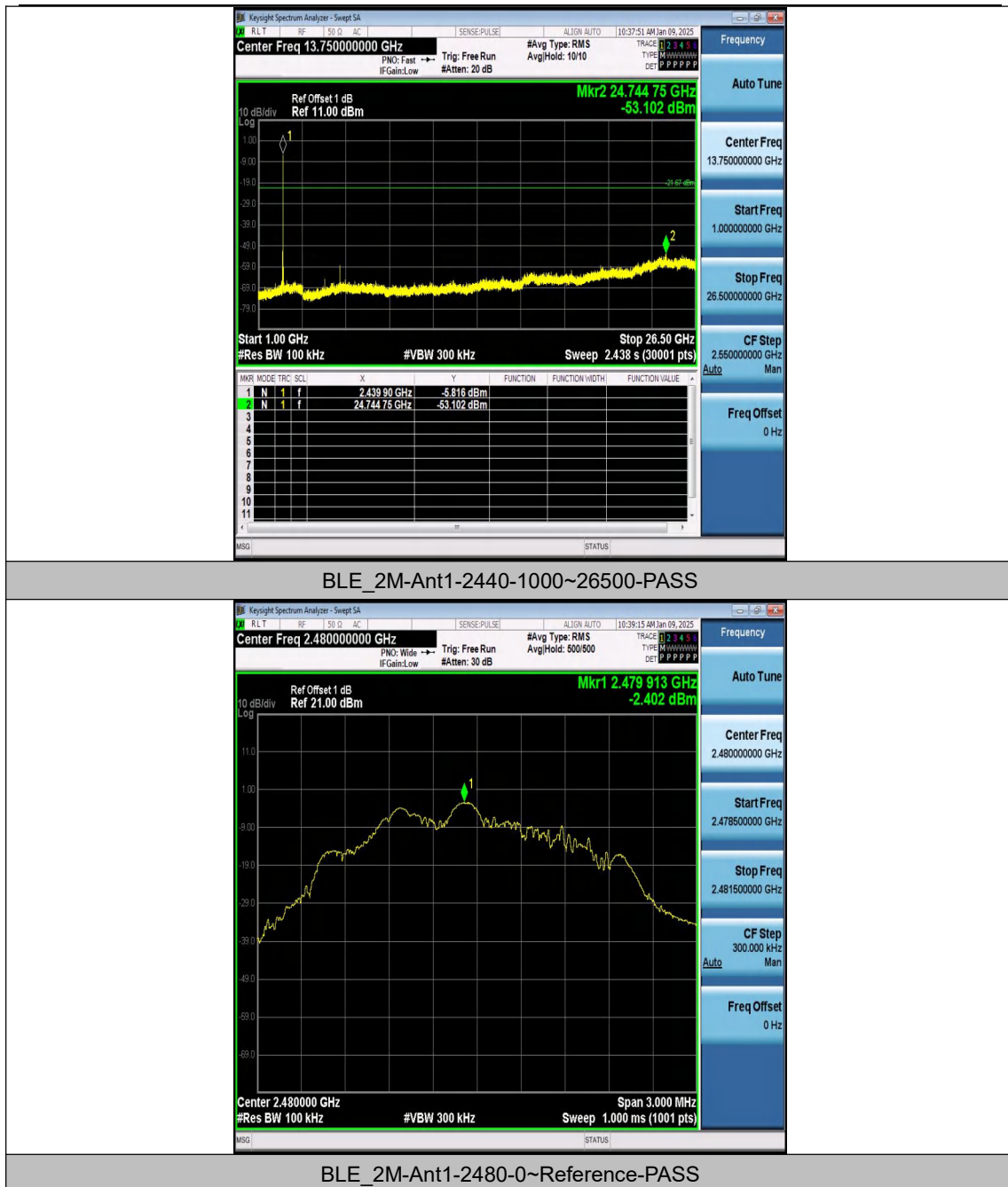


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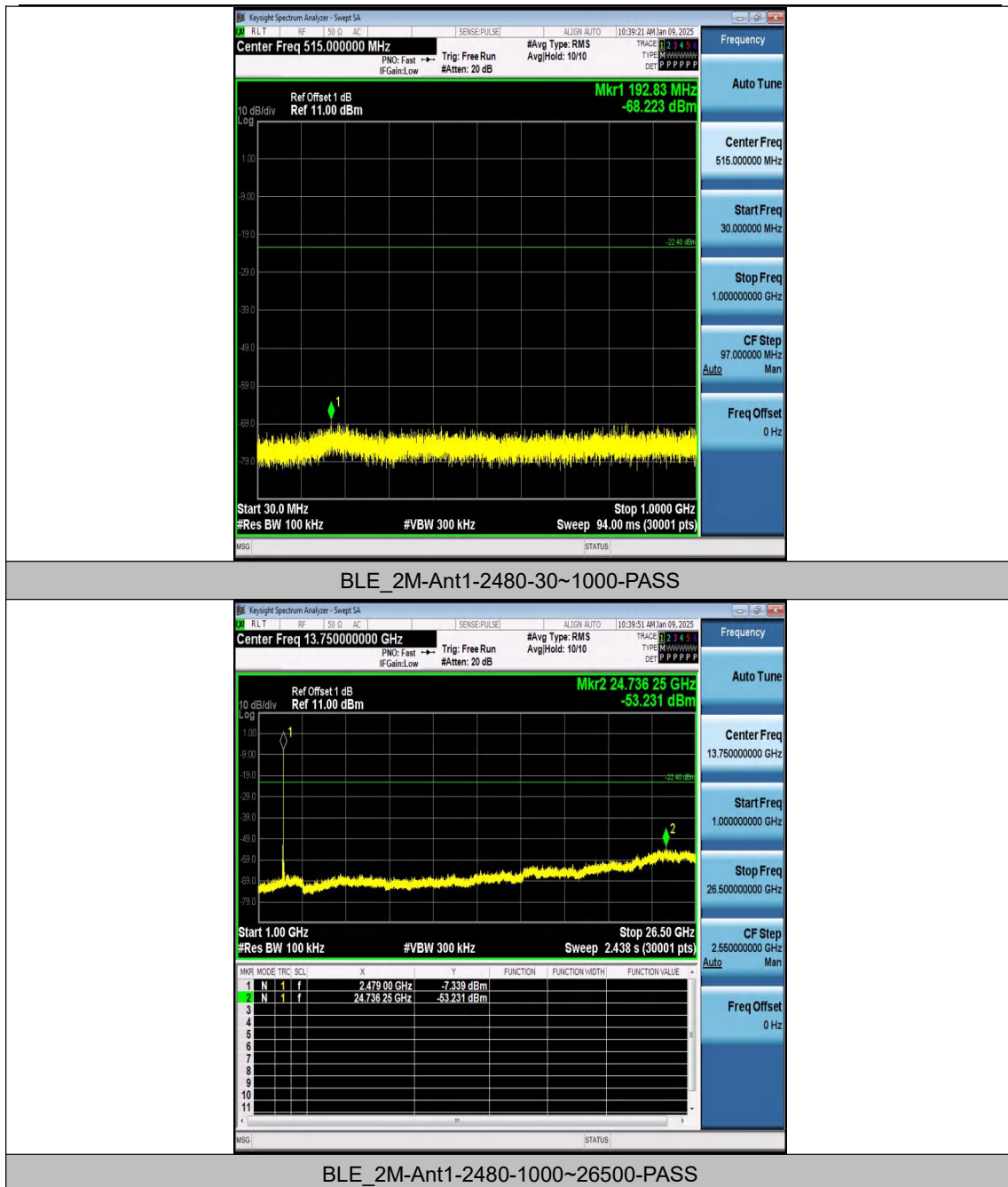


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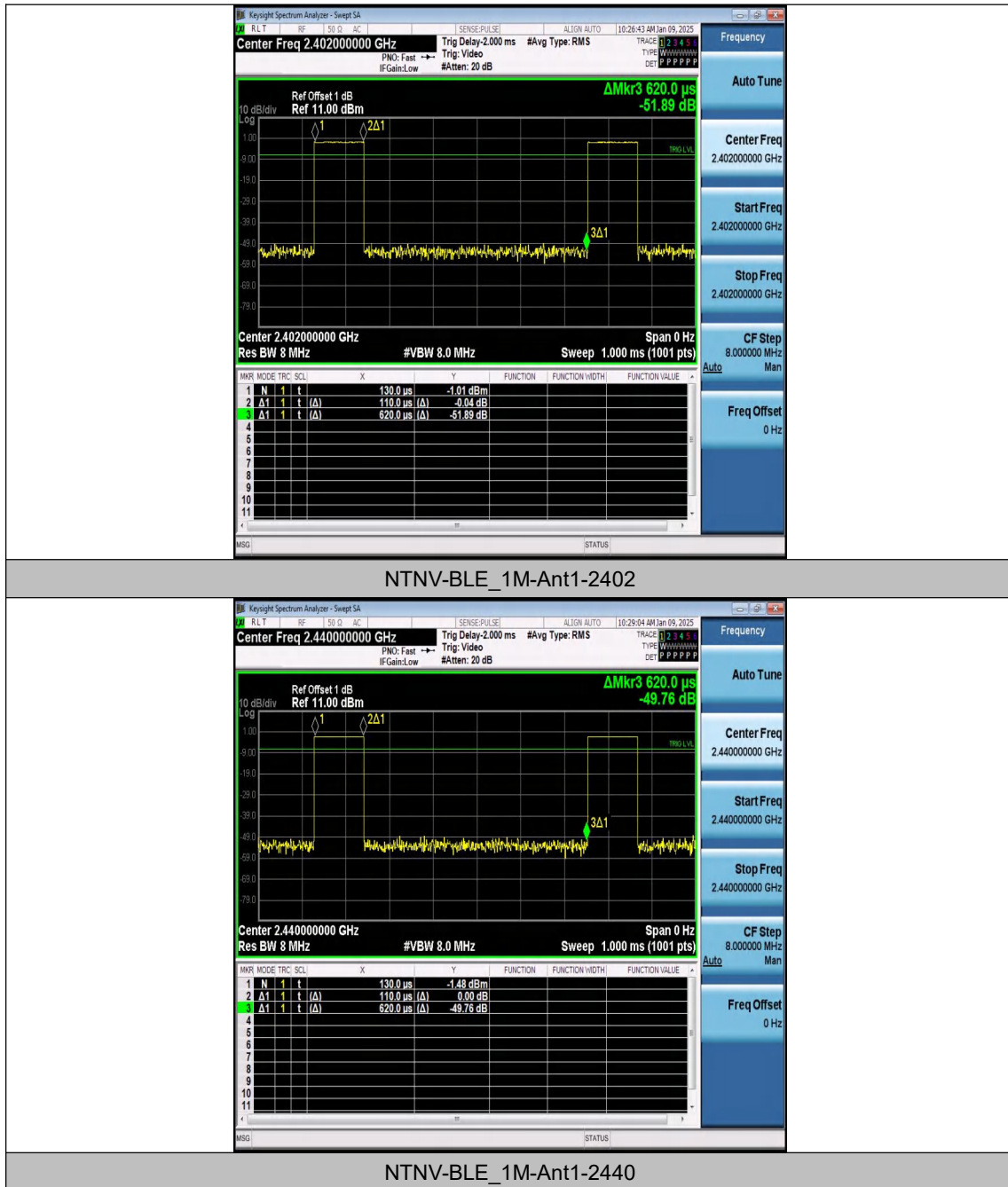
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.11	0.62	17.74	7.51
BLE_1M	Ant1	2440	0.11	0.62	17.74	7.51
BLE_1M	Ant1	2480	0.12	0.63	19.05	7.20
BLE_2M	Ant1	2402	0.08	0.63	12.70	8.96
BLE_2M	Ant1	2440	0.07	0.62	11.29	9.47
BLE_2M	Ant1	2480	0.07	0.63	11.11	9.54

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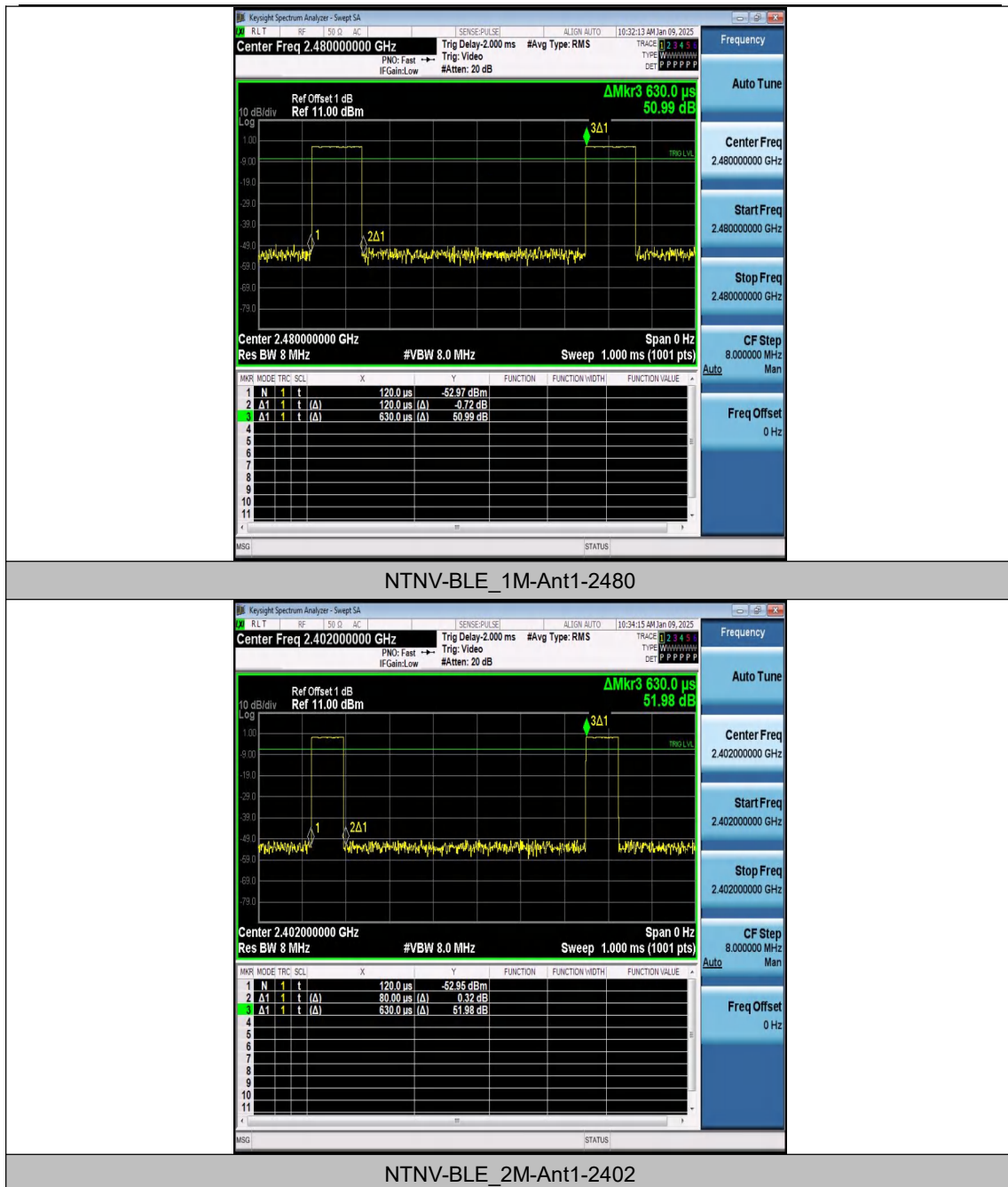
Test Graphs



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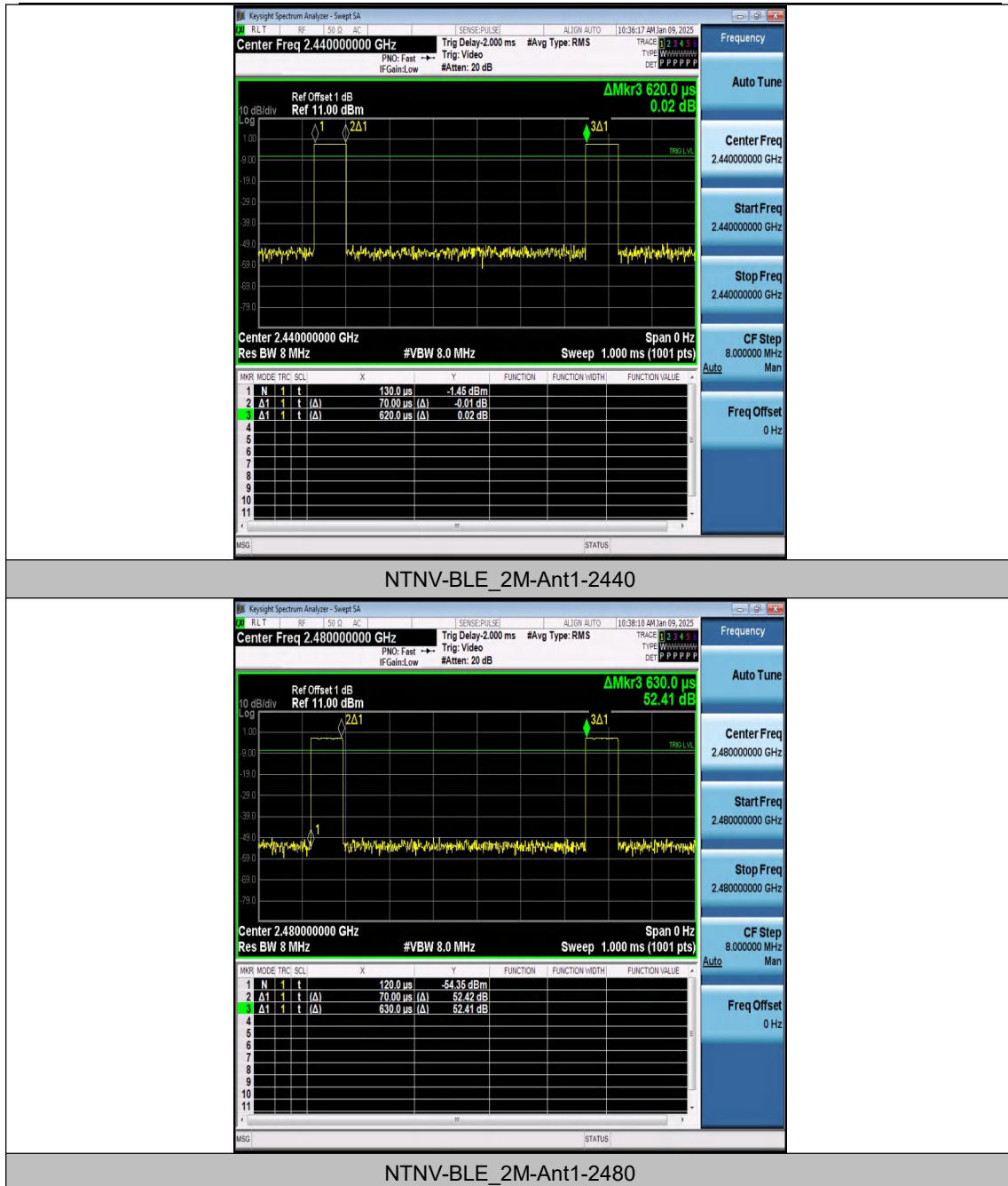
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