

Appendix Test Data

Report No.:	1812C50126412501	Test Sample No.:	1-2-2
Start Test Date:	2025.04.15	Finish Test Date:	2025.04.15
Test Engineer:	<i>Alex Reng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24.5°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	0.672	2401.664	2402.336	0.5	PASS
BLE_1M	Ant1	2440	0.688	2439.648	2440.336	0.5	PASS
BLE_1M	Ant1	2480	0.664	2479.668	2480.332	0.5	PASS
BLE_2M	Ant1	2402	1.344	2401.320	2402.664	0.5	PASS
BLE_2M	Ant1	2440	1.344	2439.320	2440.664	0.5	PASS
BLE_2M	Ant1	2480	1.348	2479.320	2480.668	0.5	PASS



Test Graphs



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Appendix B: 99% Occupied Bandwidth

Test Result

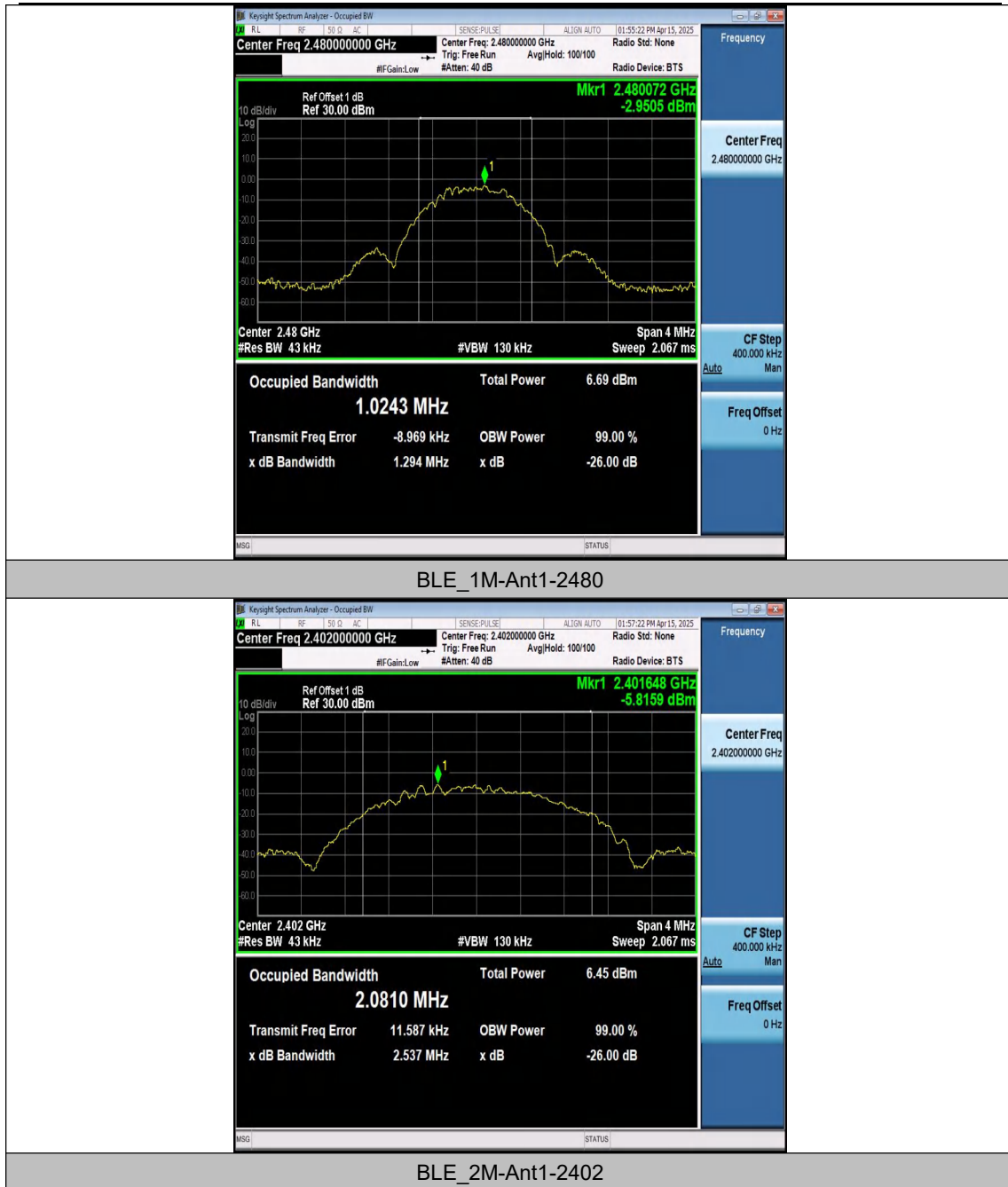
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0235	2401.4835	2402.5070	---	---
BLE_1M	Ant1	2440	1.0289	2439.4801	2440.5090	---	---
BLE_1M	Ant1	2480	1.0243	2479.4789	2480.5032	---	---
BLE_2M	Ant1	2402	2.0810	2400.9711	2403.0521	---	---
BLE_2M	Ant1	2440	2.0805	2438.9715	2441.0520	---	---
BLE_2M	Ant1	2480	2.0769	2478.9738	2481.0507	---	---

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Test Graphs





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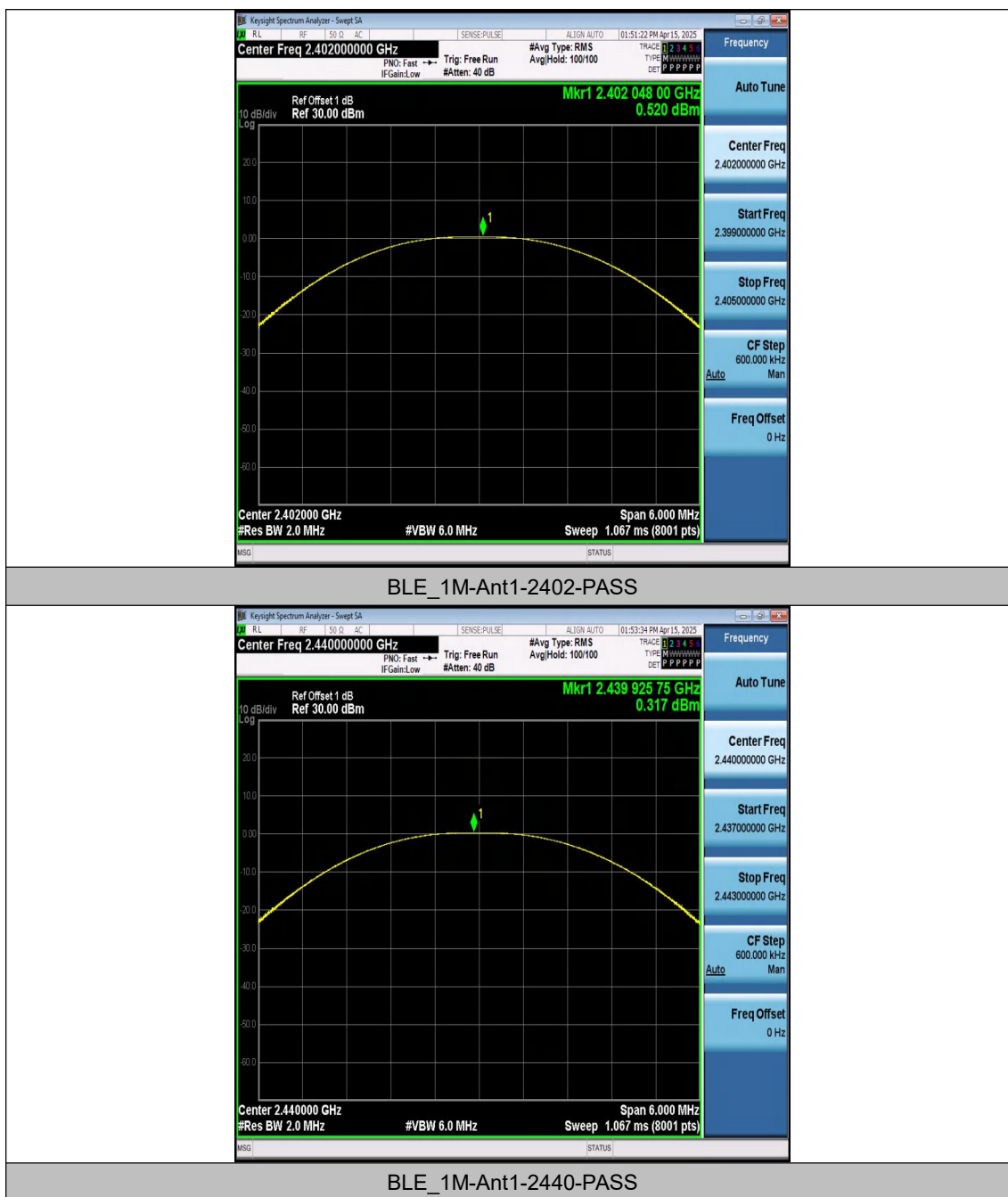
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.52	≤30	PASS
BLE_1M	Ant1	2440	0.32	≤30	PASS
BLE_1M	Ant1	2480	0.25	≤30	PASS
BLE_2M	Ant1	2402	0.46	≤30	PASS
BLE_2M	Ant1	2440	0.33	≤30	PASS
BLE_2M	Ant1	2480	0.22	≤30	PASS

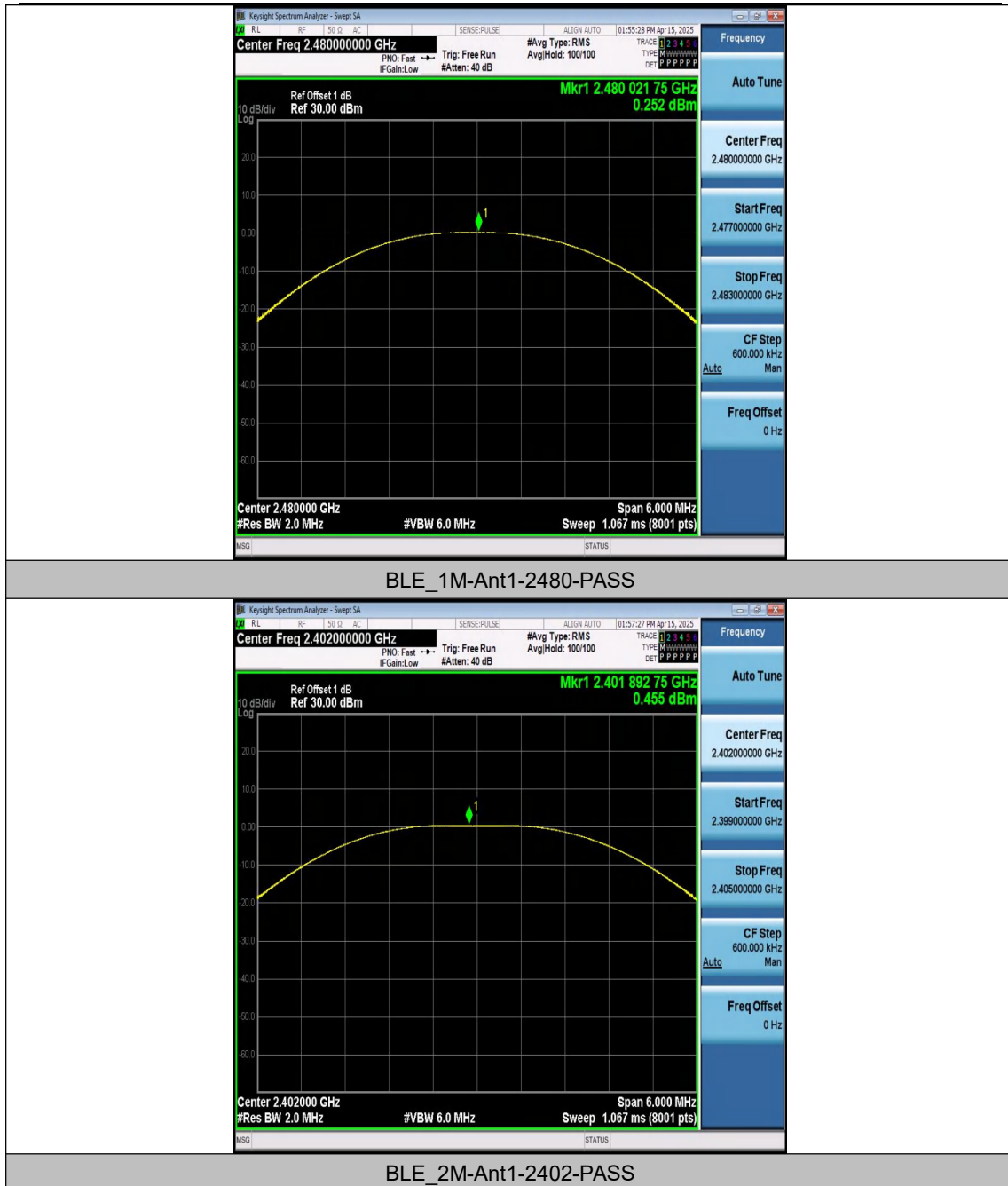
Test Graphs Peak



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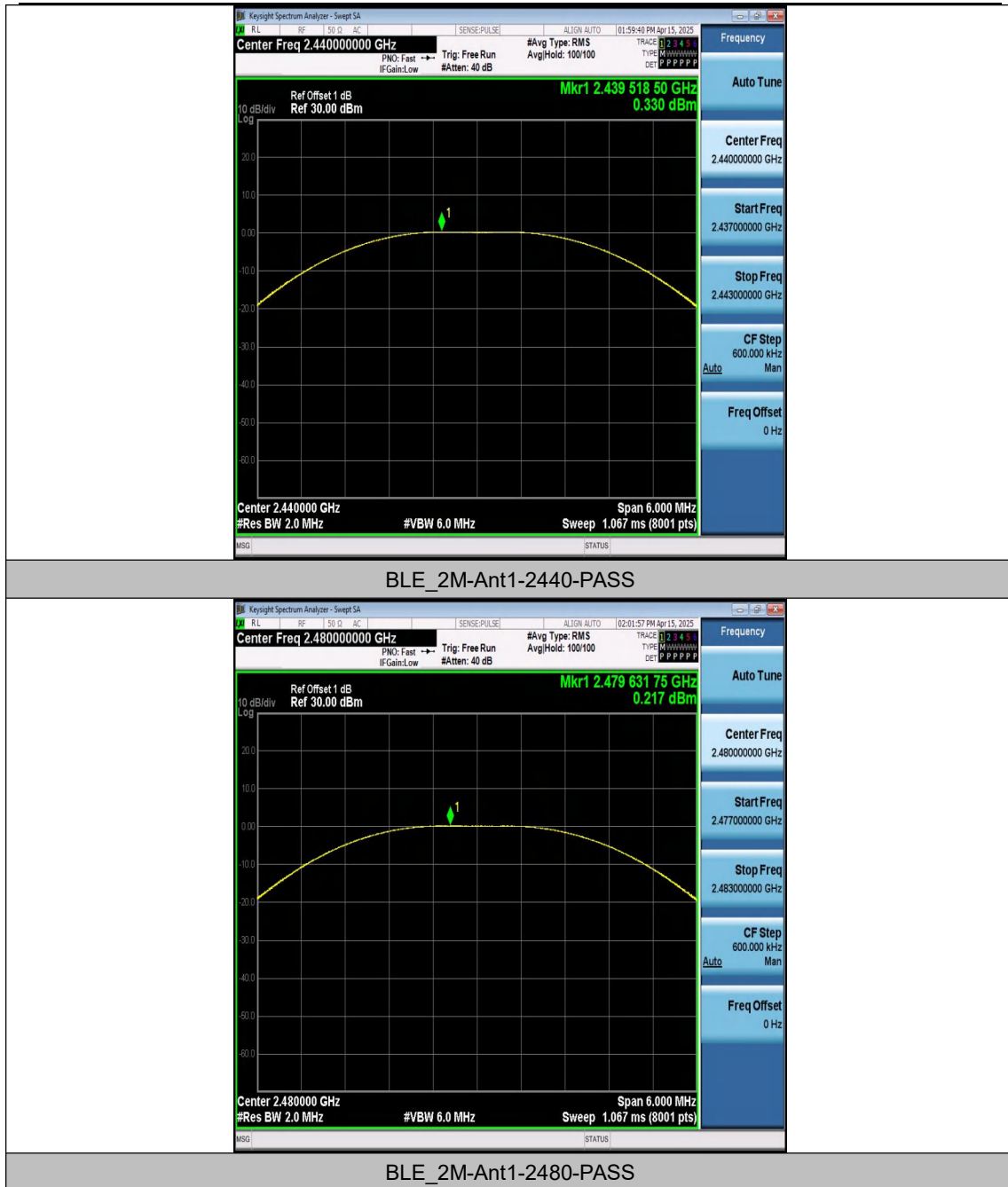
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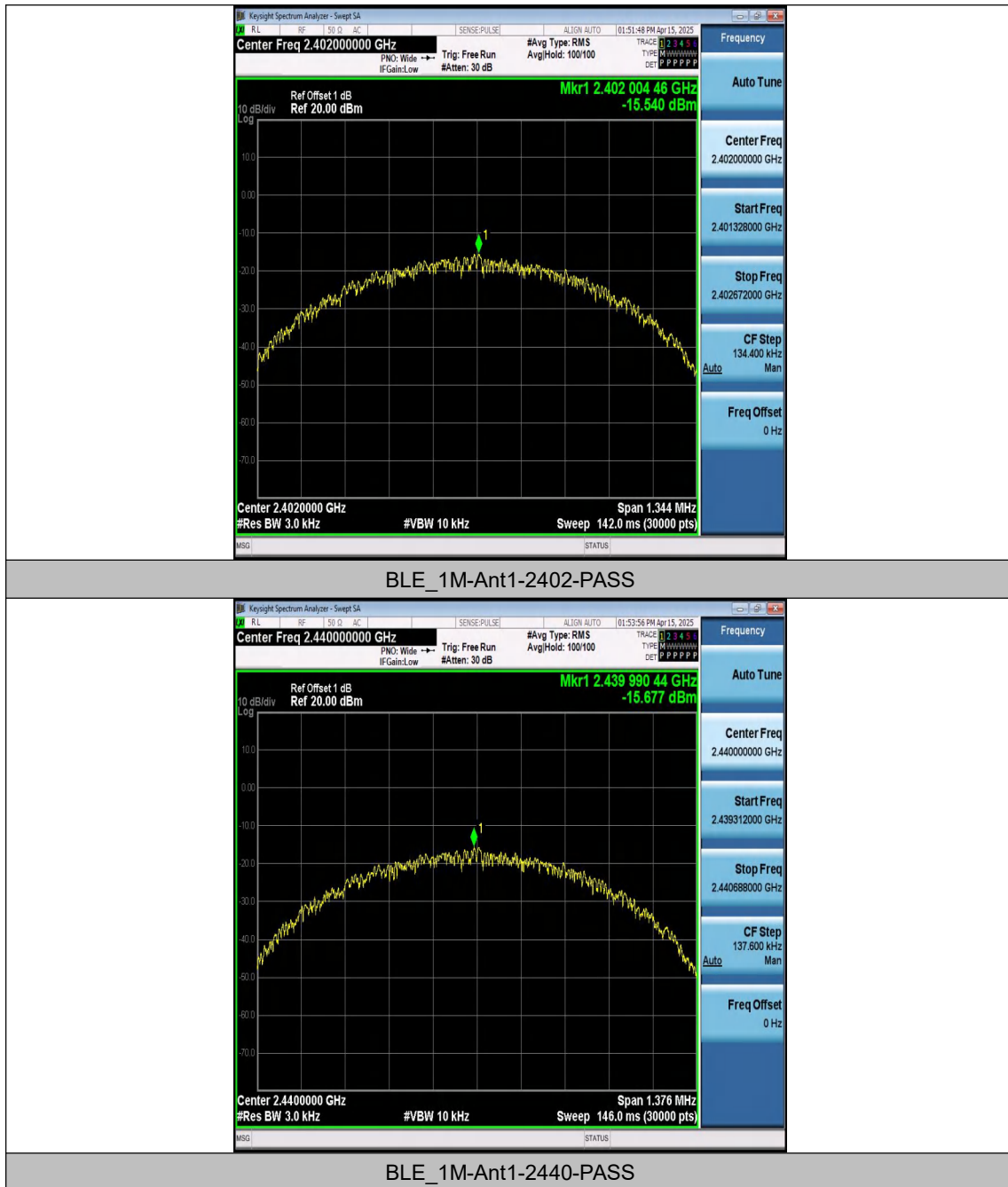
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.54	≤8.00	PASS
BLE_1M	Ant1	2440	-15.68	≤8.00	PASS
BLE_1M	Ant1	2480	-15.67	≤8.00	PASS
BLE_2M	Ant1	2402	-19.86	≤8.00	PASS
BLE_2M	Ant1	2440	-19.98	≤8.00	PASS
BLE_2M	Ant1	2480	-20.05	≤8.00	PASS



Test Graphs

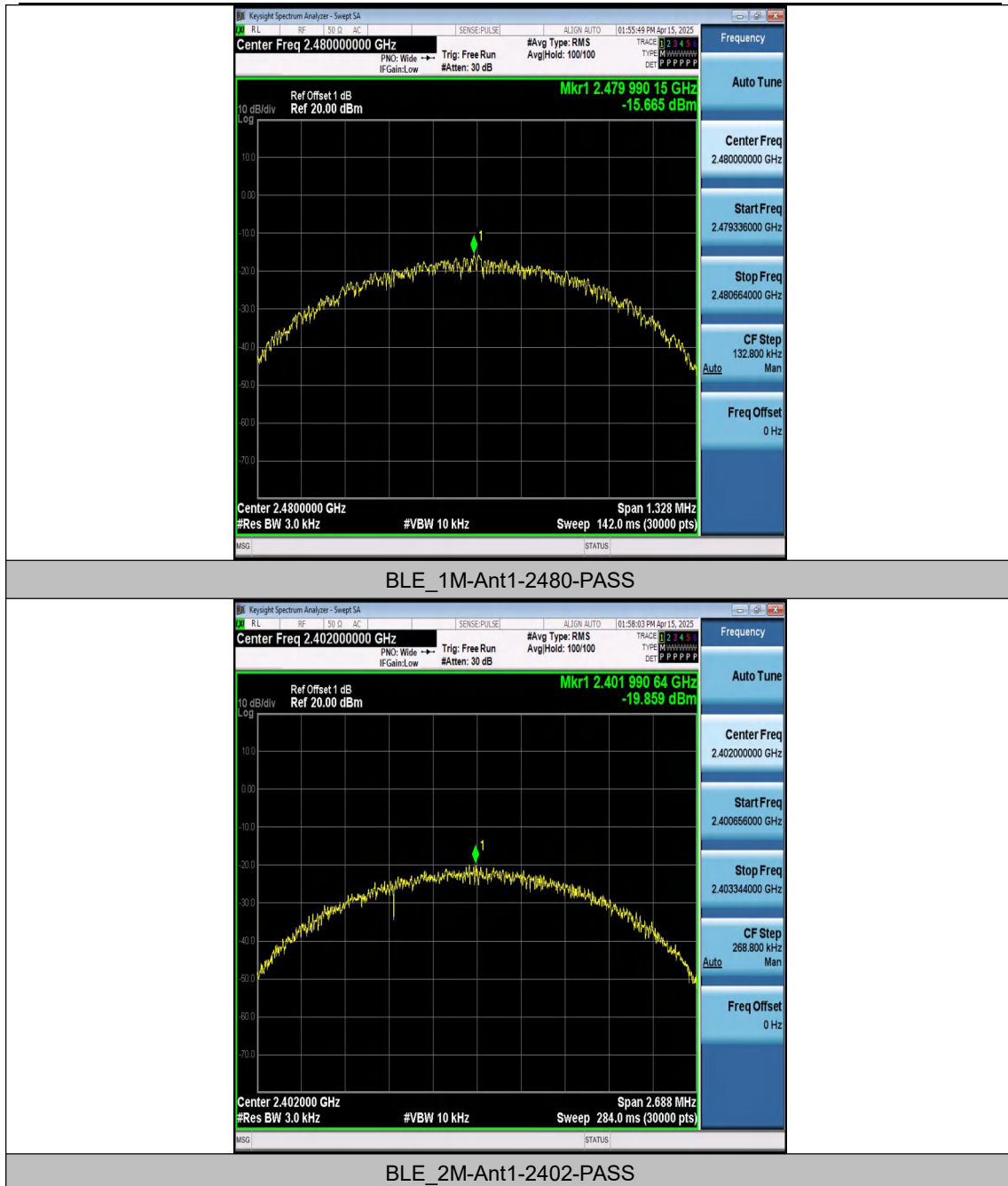


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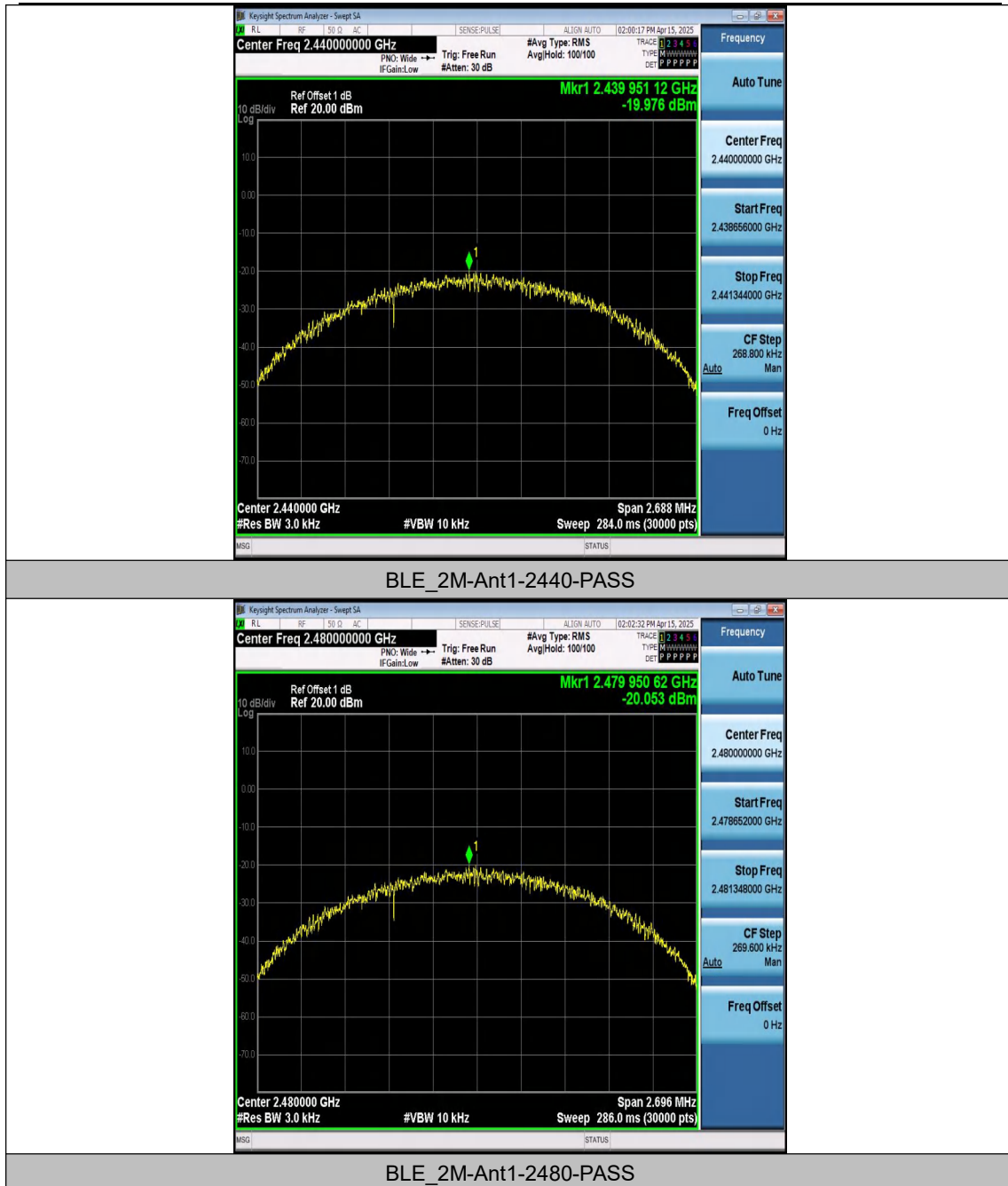
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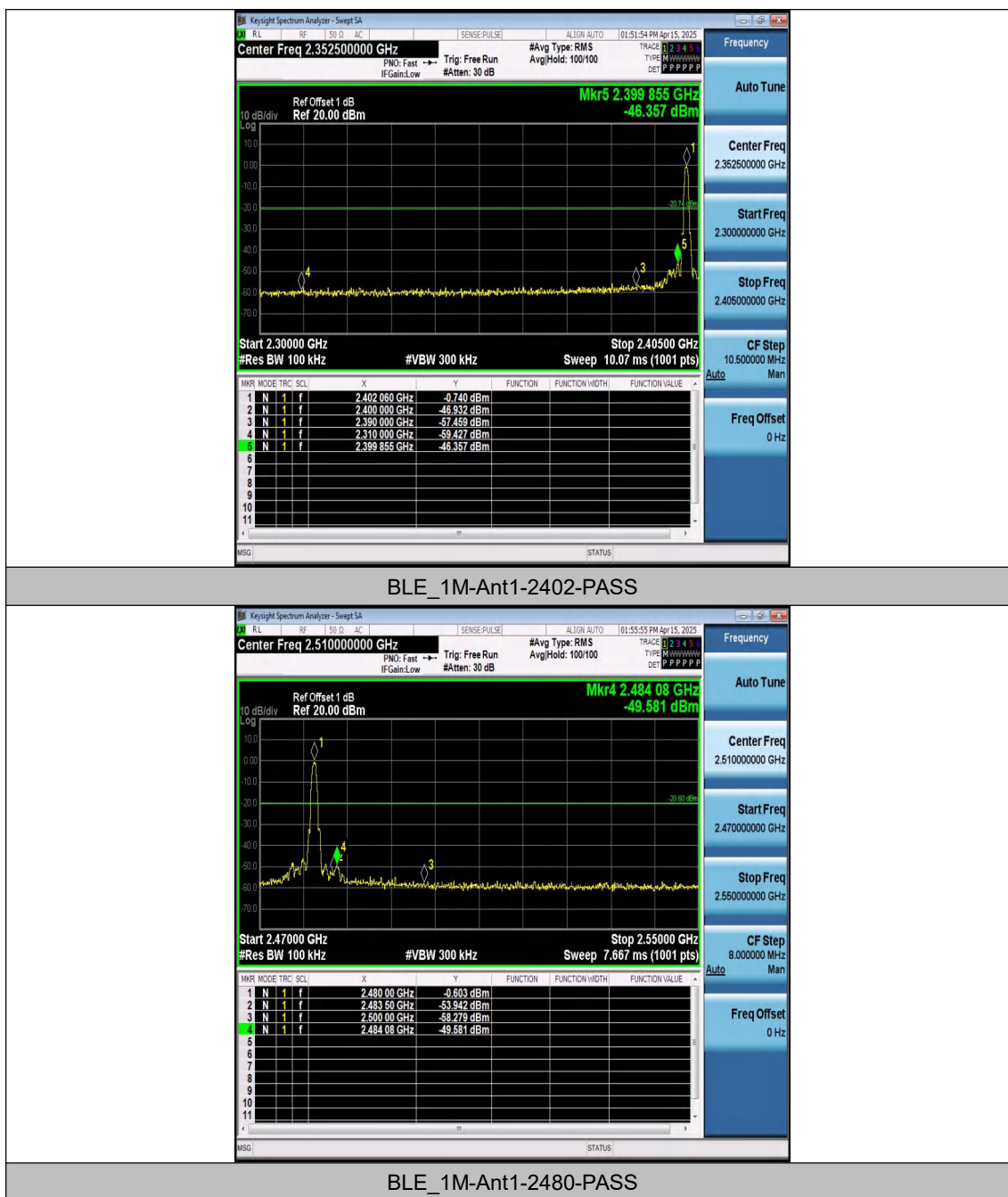
Appendix E: Band edge measurements

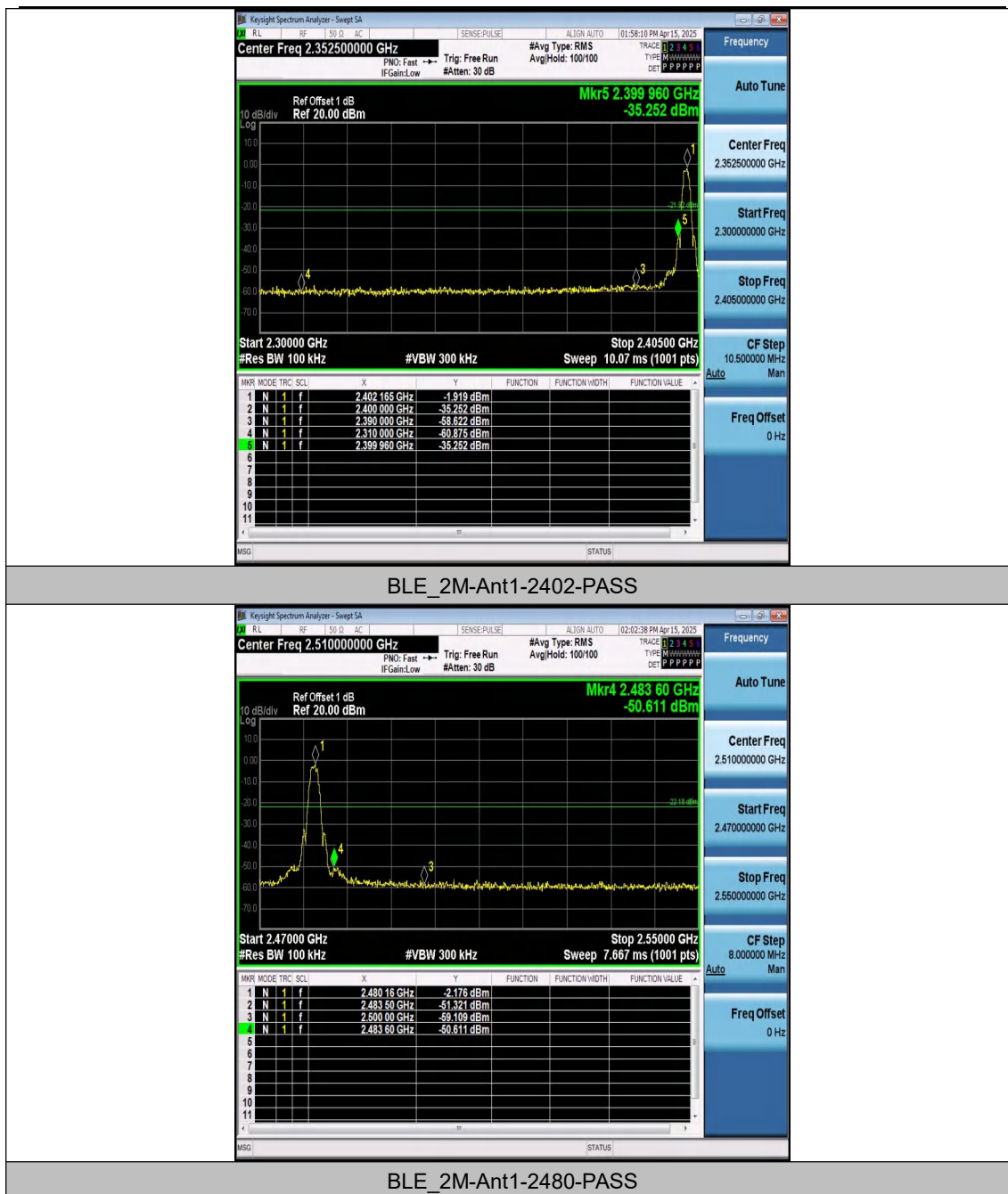
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.74	-46.36	≤-20.74	PASS
BLE_1M	Ant1	High	2480	-0.60	-49.58	≤-20.6	PASS
BLE_2M	Ant1	Low	2402	-1.92	-35.25	≤-21.92	PASS
BLE_2M	Ant1	High	2480	-2.18	-50.61	≤-22.18	PASS



Test Graphs





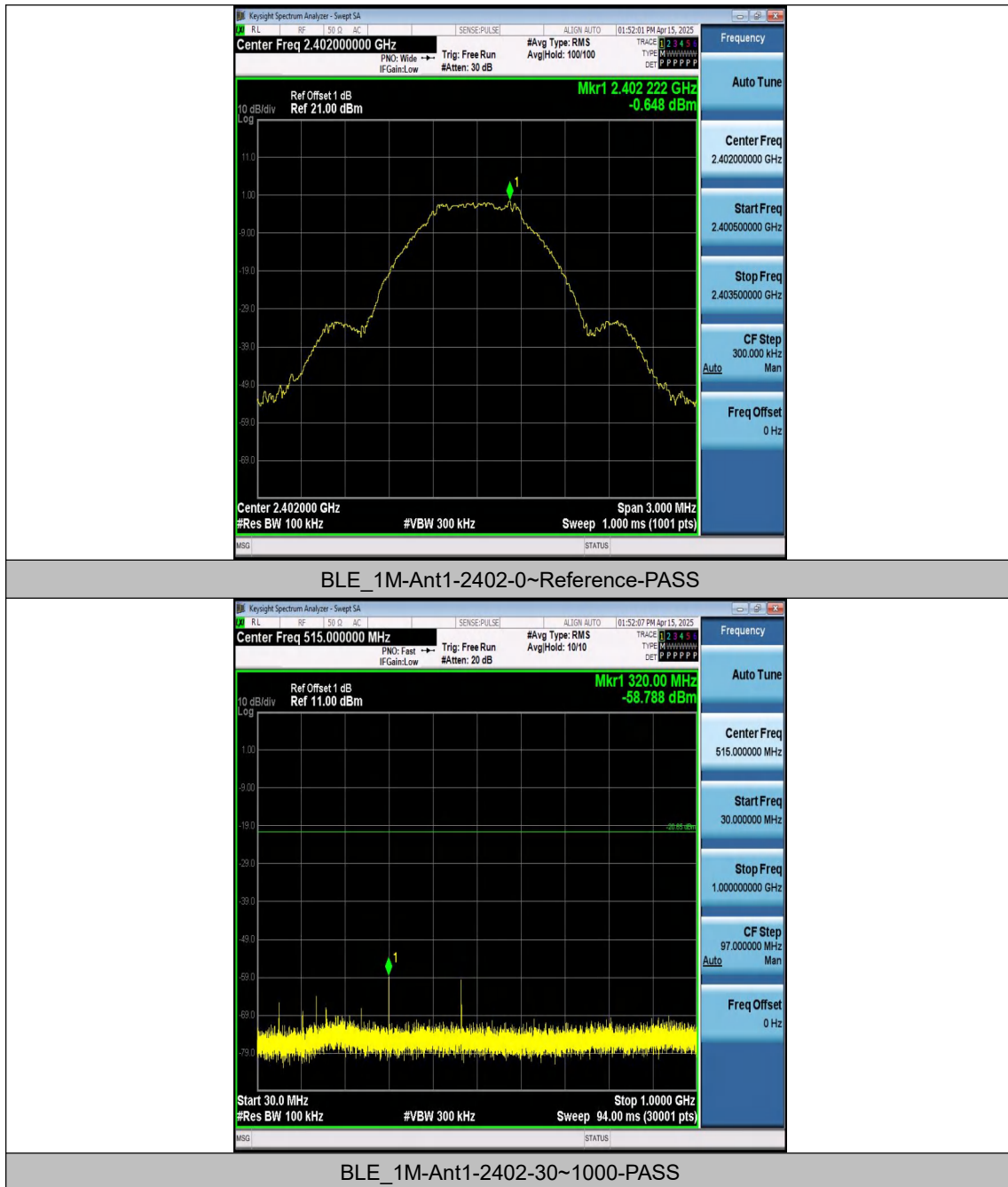
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.65	-0.65	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.65	-58.79	≤-20.65	PASS
BLE_1M	Ant1	2402	1000~26500	-0.65	-52.91	≤-20.65	PASS
BLE_1M	Ant1	2440	0~Reference	-0.79	-0.79	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.79	-59.13	≤-20.79	PASS
BLE_1M	Ant1	2440	1000~26500	-0.79	-53.31	≤-20.79	PASS
BLE_1M	Ant1	2480	0~Reference	-1.10	-1.10	---	PASS
BLE_1M	Ant1	2480	30~1000	-1.10	-59.13	≤-21.1	PASS
BLE_1M	Ant1	2480	1000~26500	-1.10	-53.34	≤-21.1	PASS
BLE_2M	Ant1	2402	0~Reference	-2.67	-2.67	---	PASS
BLE_2M	Ant1	2402	30~1000	-2.67	-59.08	≤-22.67	PASS
BLE_2M	Ant1	2402	1000~26500	-2.67	-53.72	≤-22.67	PASS
BLE_2M	Ant1	2440	0~Reference	-2.83	-2.83	---	PASS
BLE_2M	Ant1	2440	30~1000	-2.83	-58.7	≤-22.83	PASS
BLE_2M	Ant1	2440	1000~26500	-2.83	-53.87	≤-22.83	PASS
BLE_2M	Ant1	2480	0~Reference	-2.92	-2.92	---	PASS
BLE_2M	Ant1	2480	30~1000	-2.92	-59.13	≤-22.92	PASS
BLE_2M	Ant1	2480	1000~26500	-2.92	-53.31	≤-22.92	PASS



Test Graphs

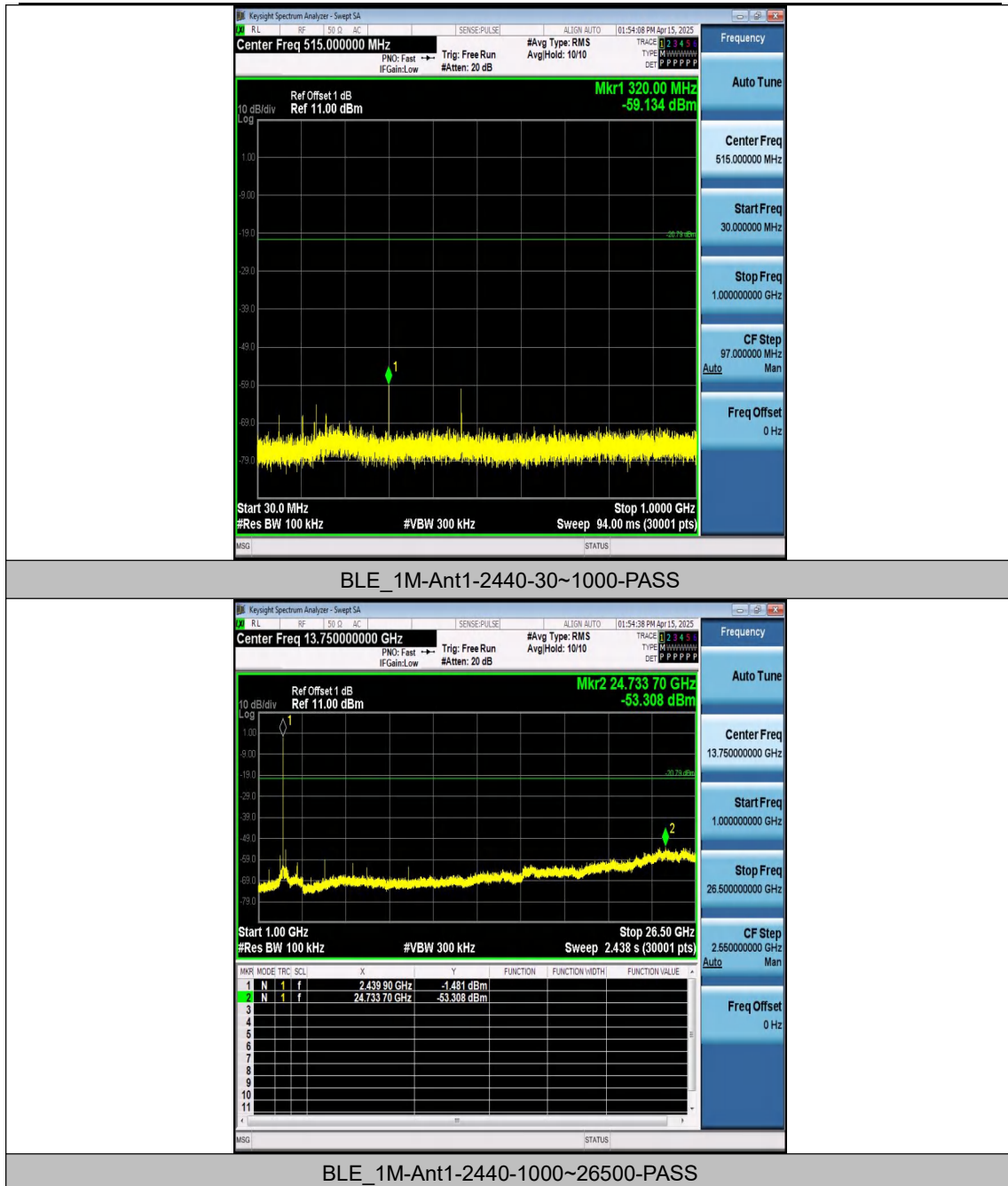


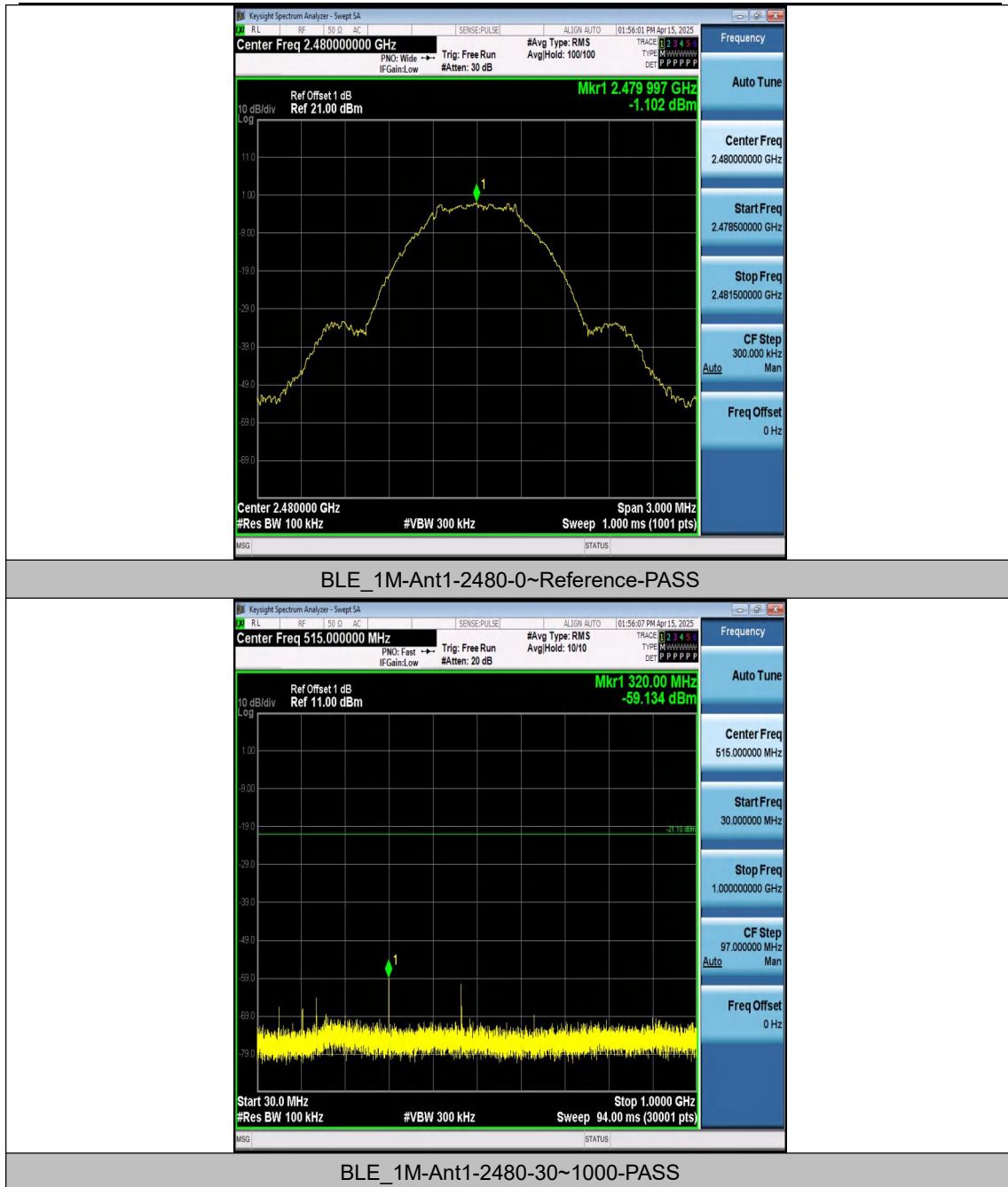
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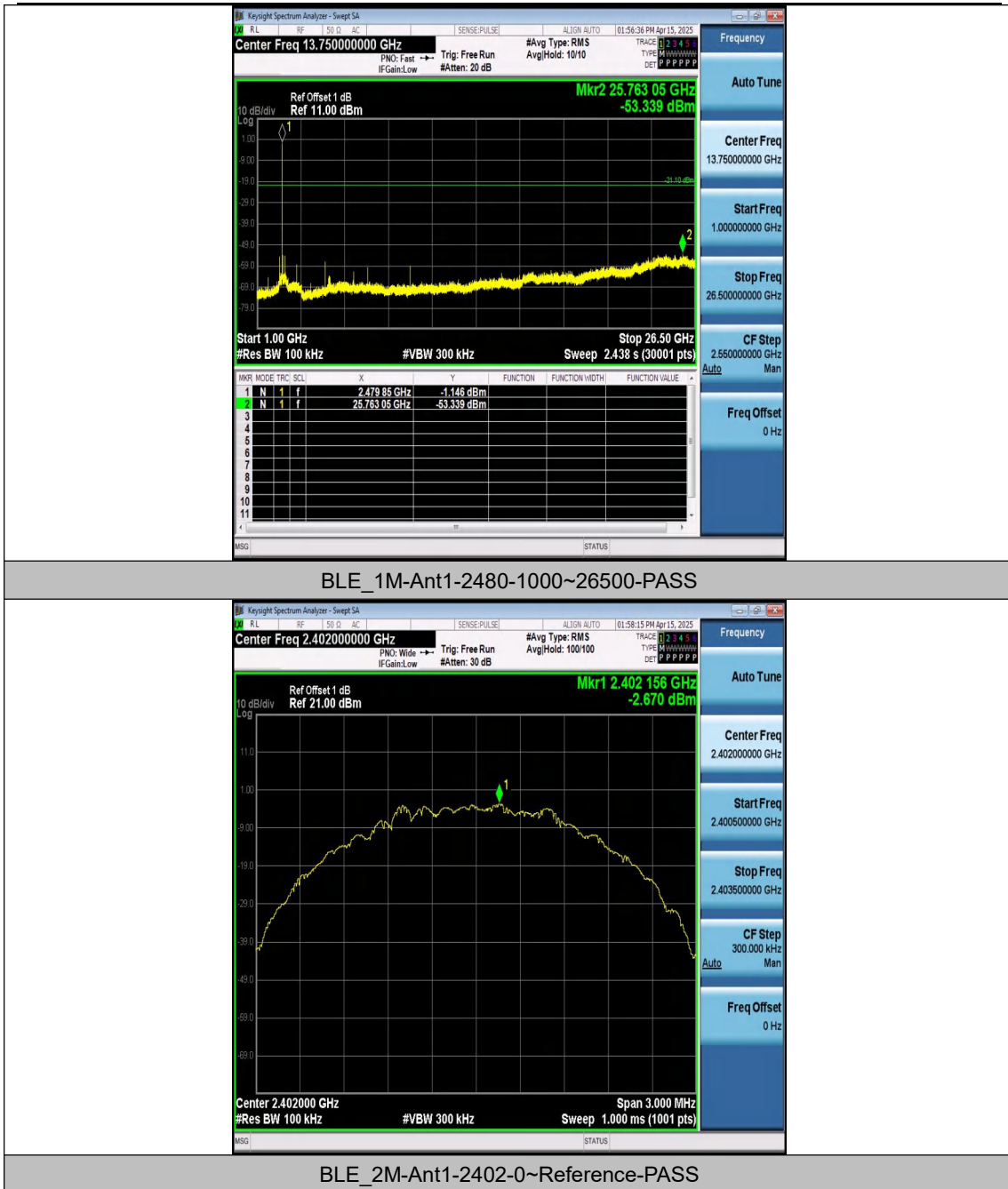




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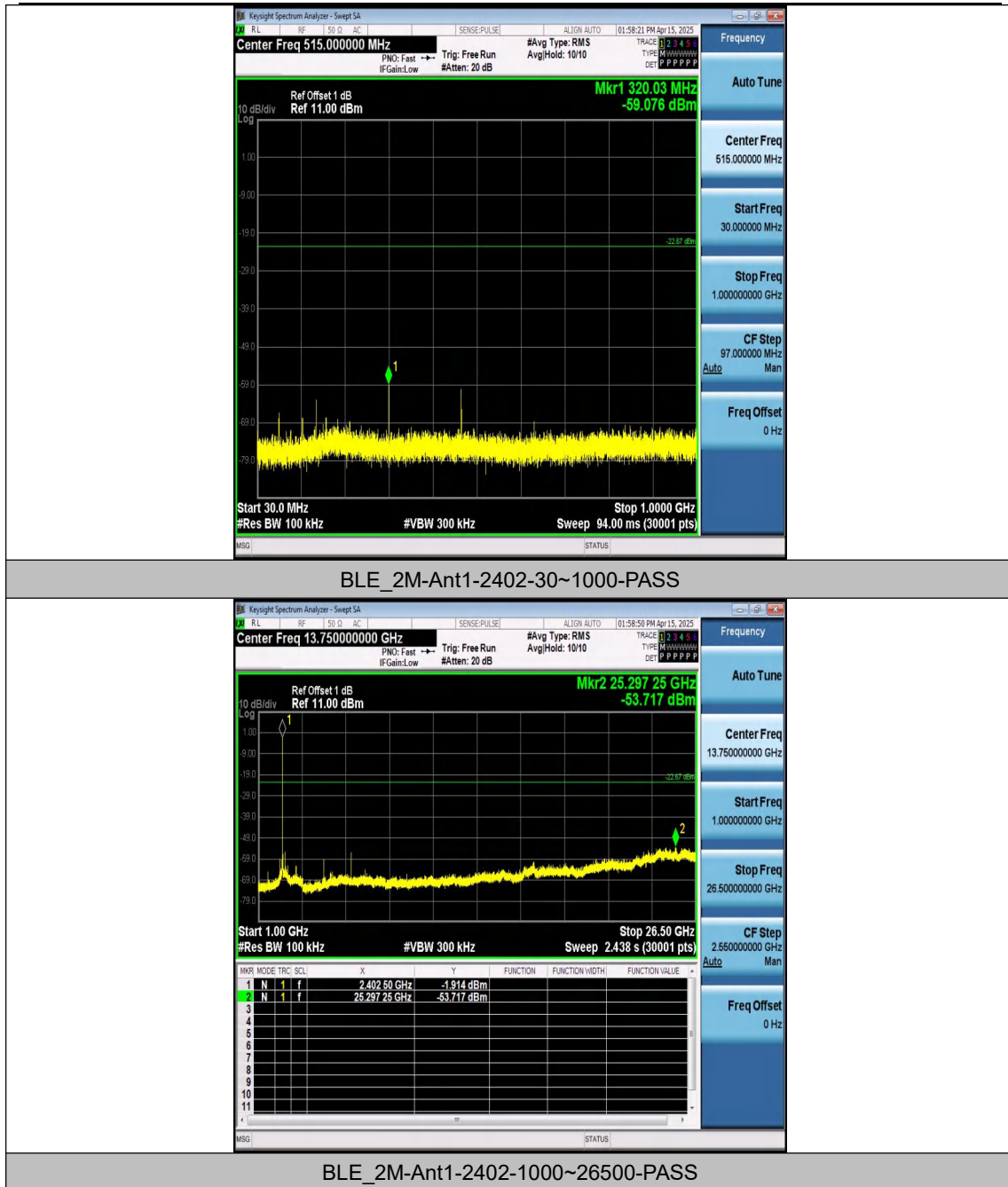
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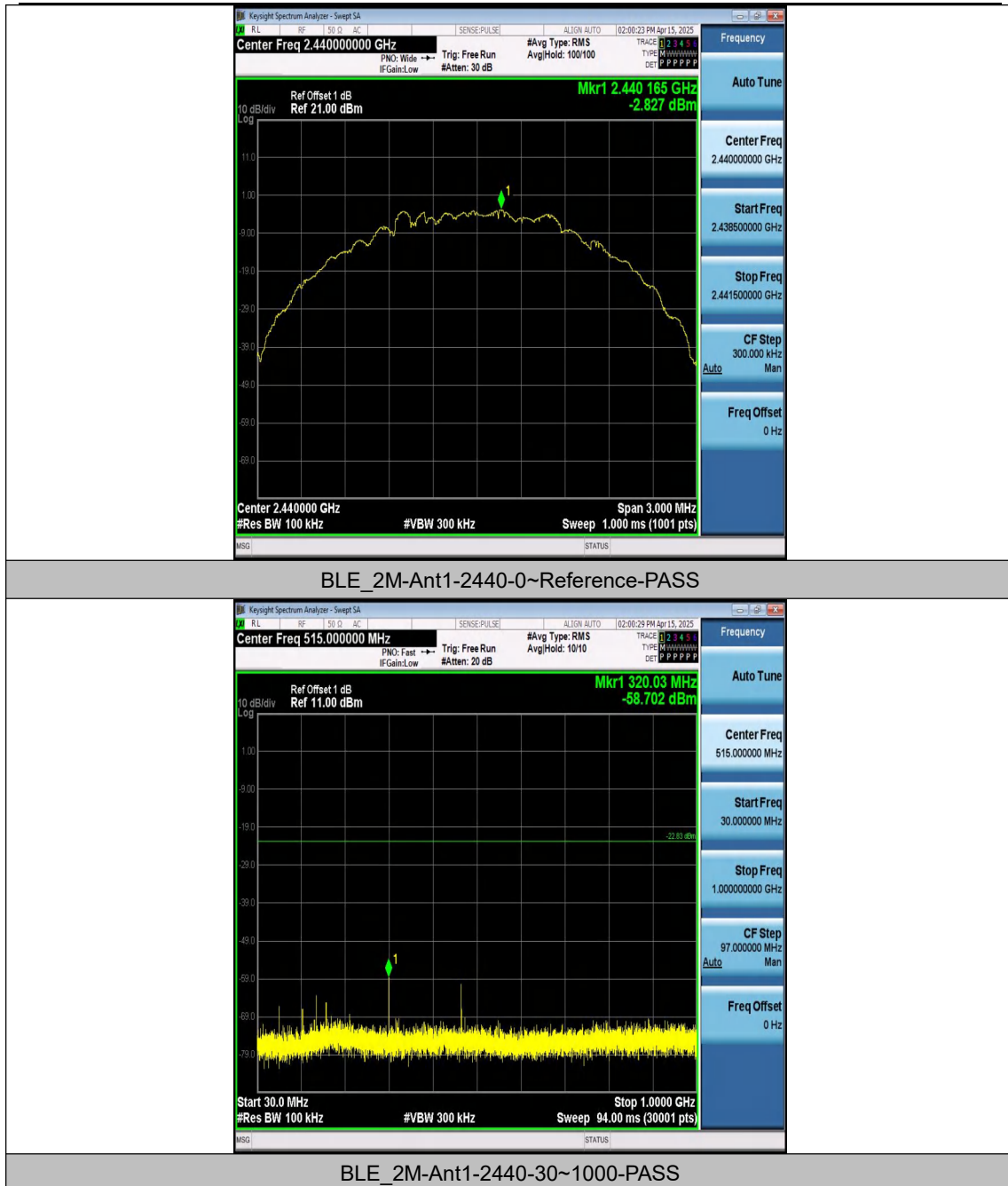
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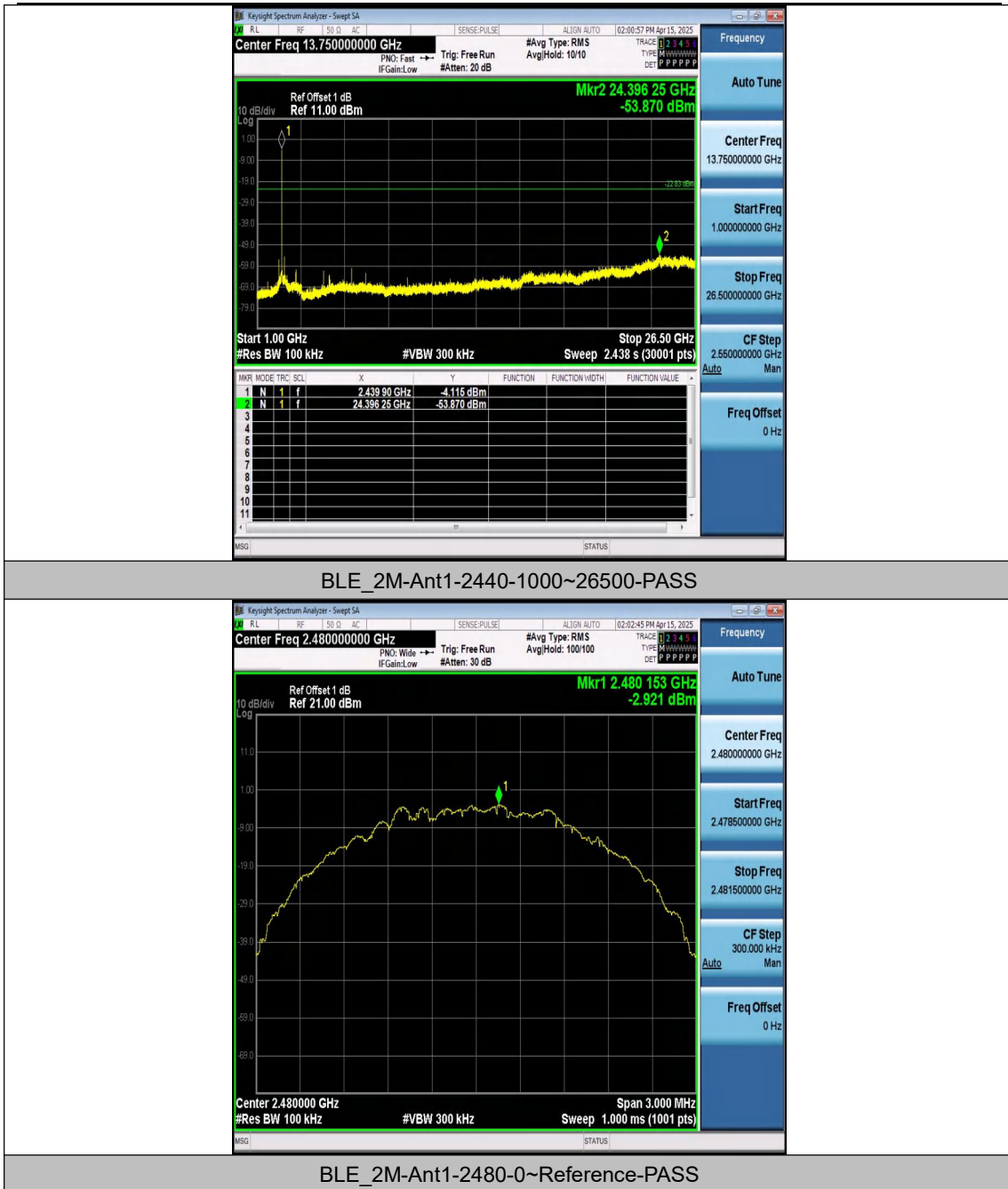
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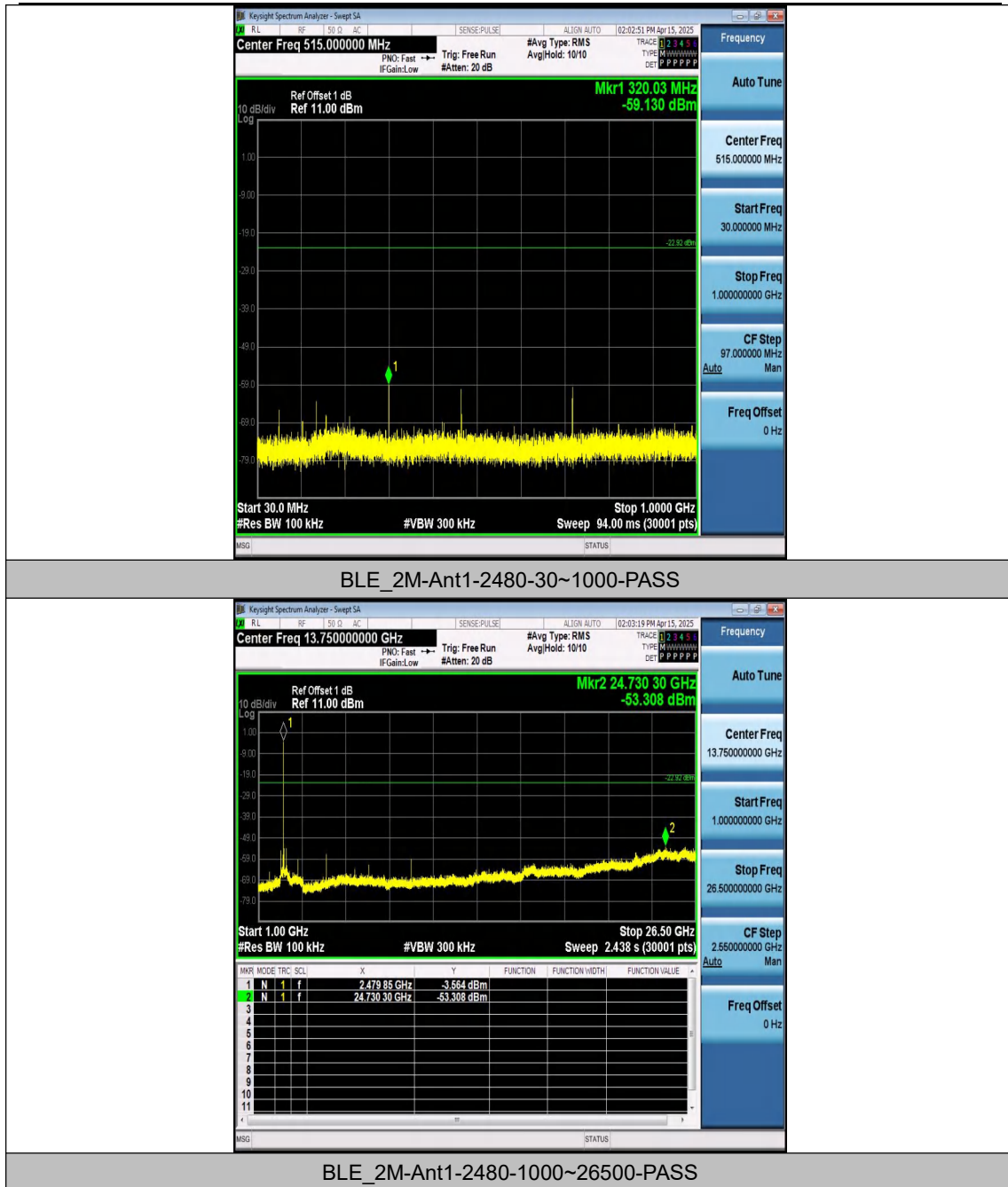
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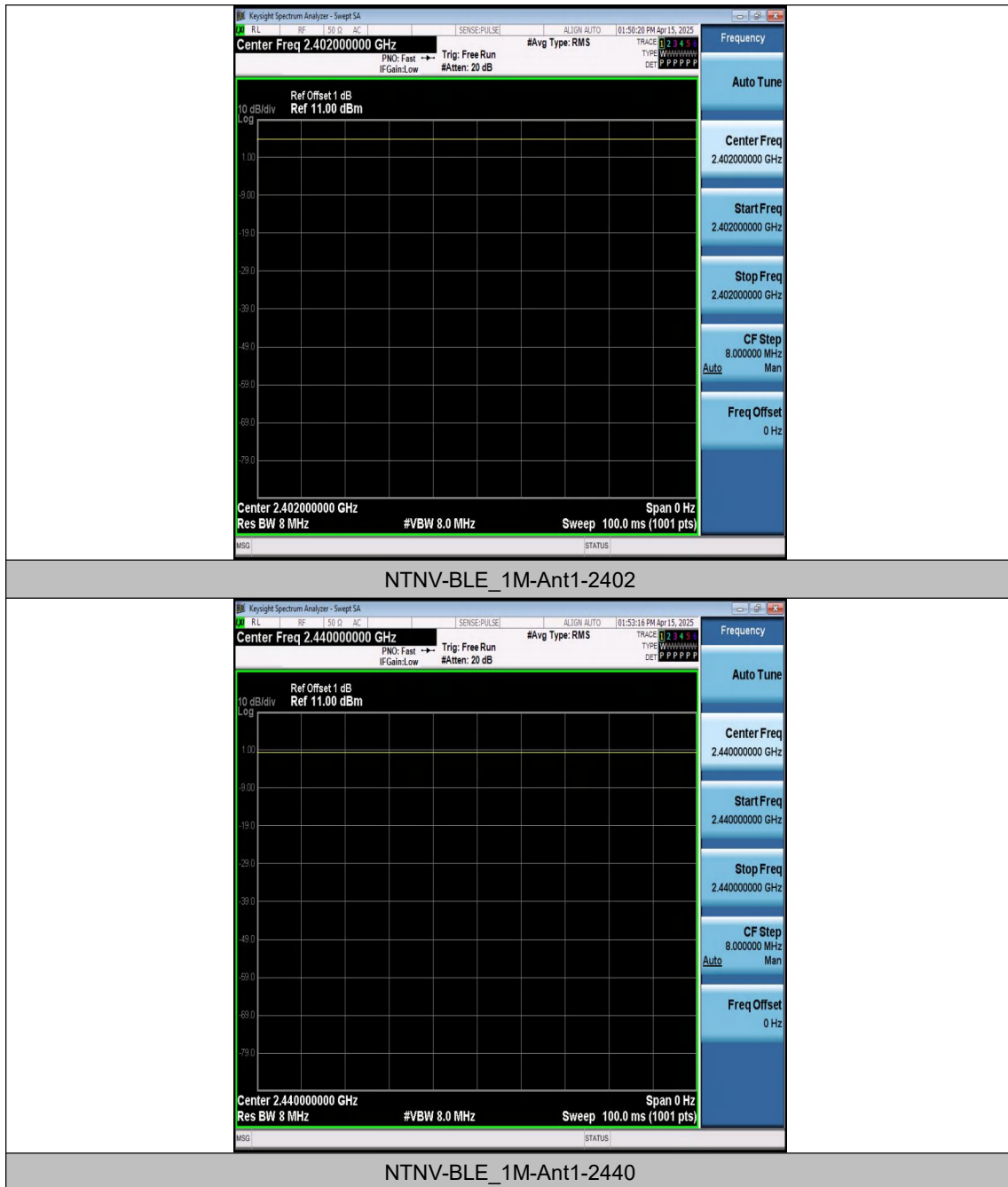
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	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



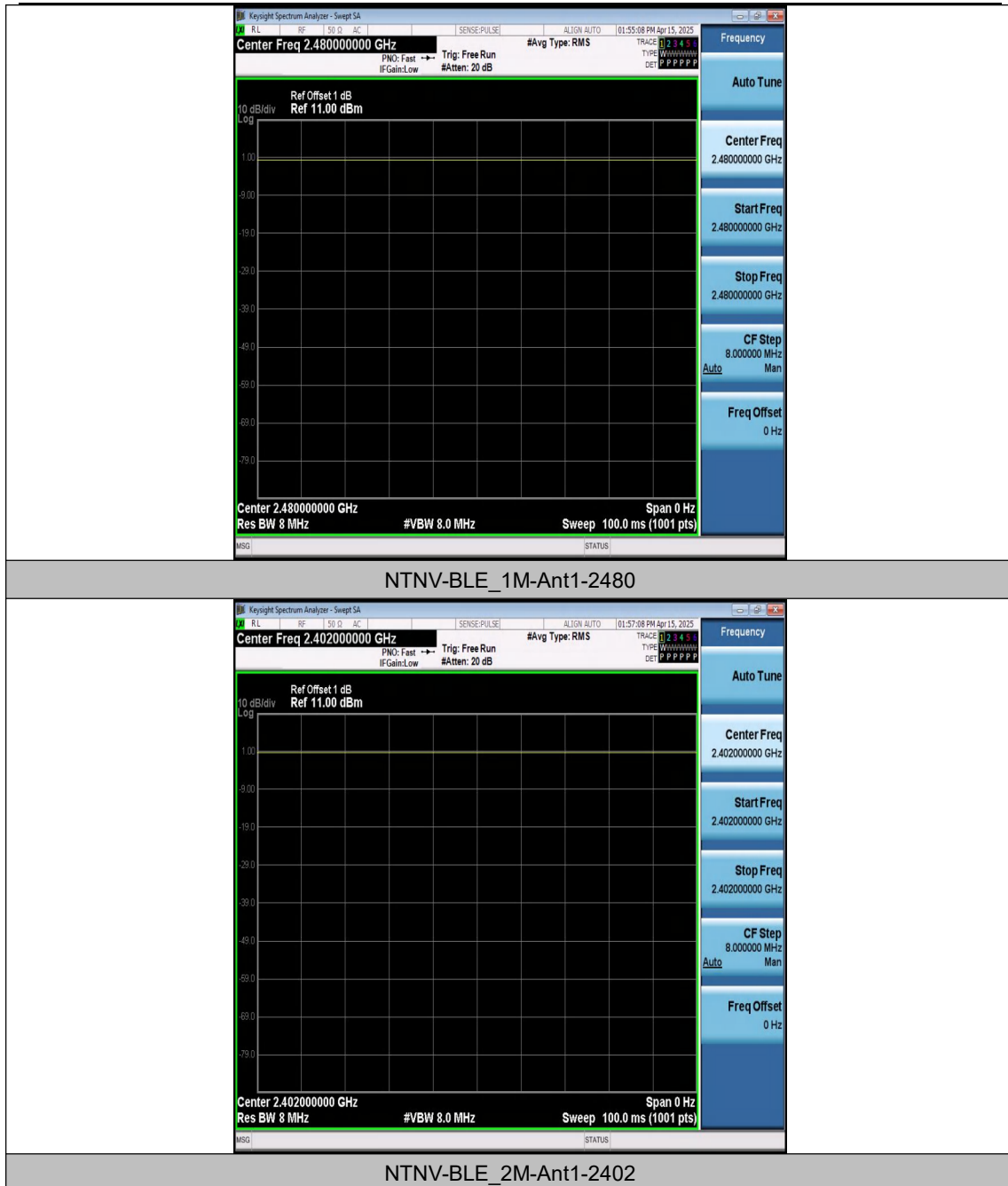
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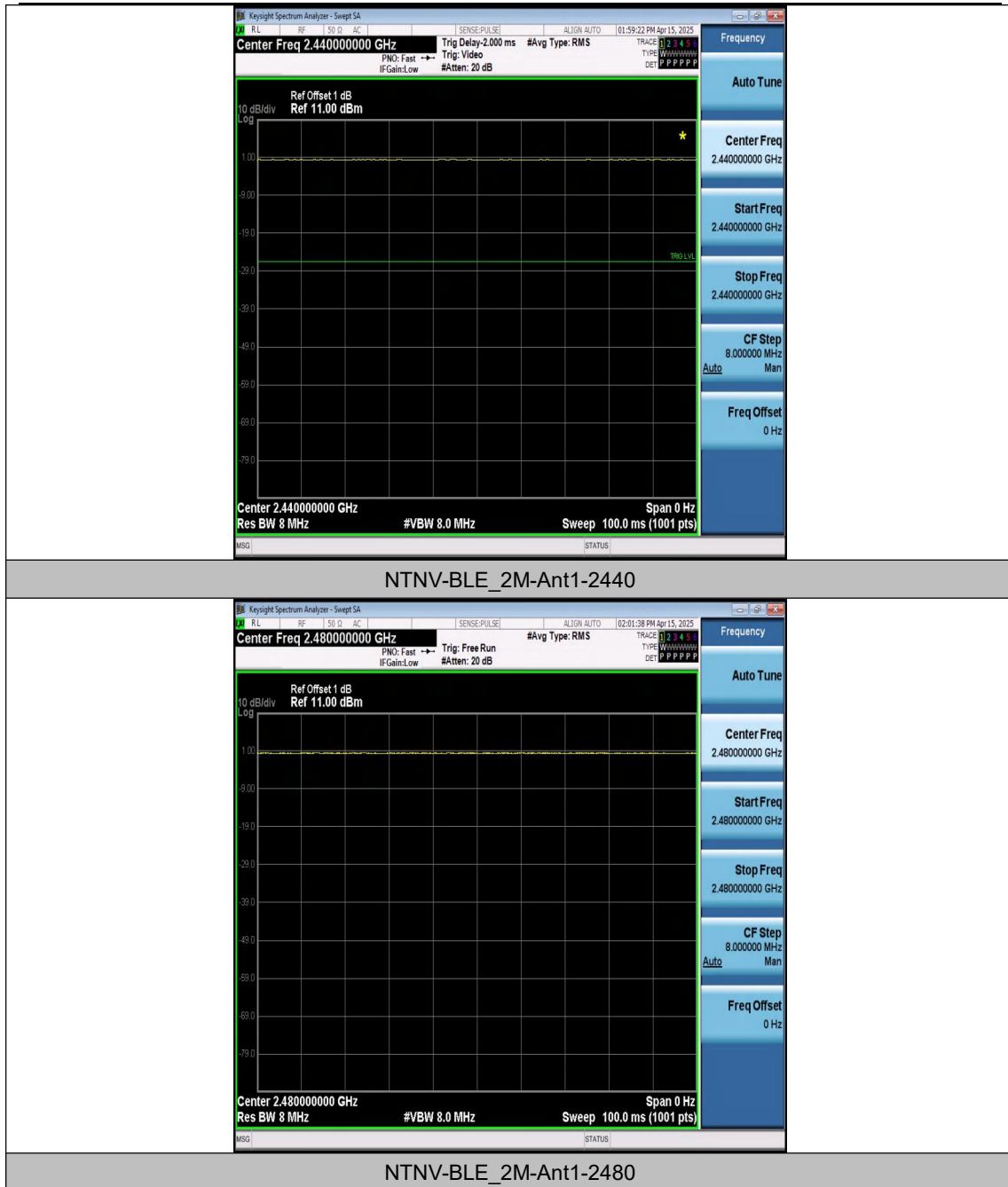
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