

Appendix Test Data

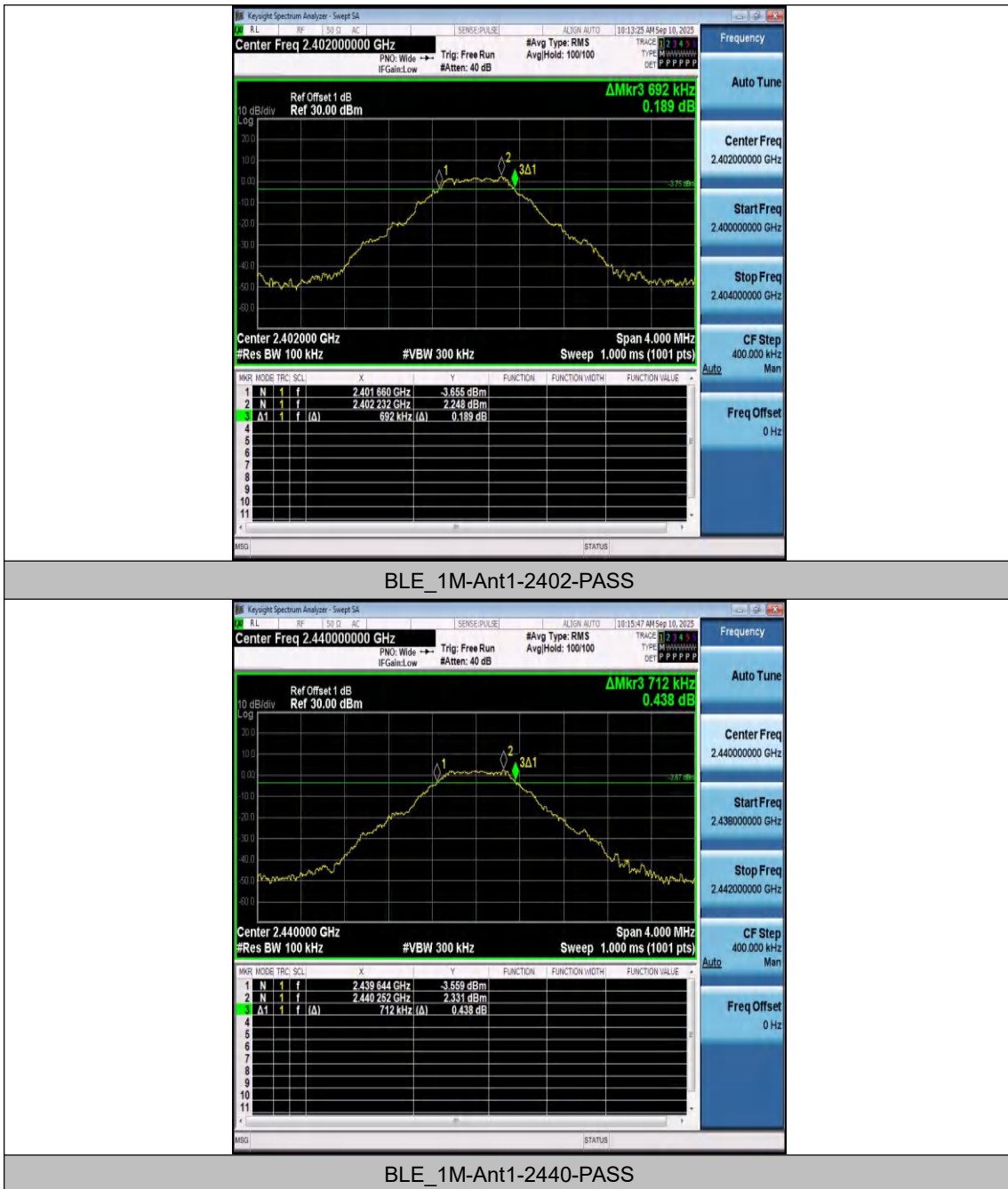
Report No.:	1819C50099212501	Test Sample No.:	1-2-2
Start Test Date:	2025-09-10	Finish Test Date:	2025-09-10
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.7°C	Relative Humidity:	50%
Pressure:	101kPa		

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	2401.660	2402.352	0.5	PASS
BLE_1M	Ant1	2440	0.712	2439.644	2440.356	0.5	PASS
BLE_1M	Ant1	2480	0.712	2479.648	2480.360	0.5	PASS
BLE_2M	Ant1	2402	1.208	2401.400	2402.608	0.5	PASS
BLE_2M	Ant1	2440	1.148	2439.436	2440.584	0.5	PASS
BLE_2M	Ant1	2480	1.156	2479.464	2480.620	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	1.0773	2401.4651	2402.5424	---	---
BLE_1M	Ant1	2440	1.1409	2439.4362	2440.5771	---	---
BLE_1M	Ant1	2480	1.2038	2479.3970	2480.6008	---	---
BLE_2M	Ant1	2402	2.0845	2400.9723	2403.0568	---	---
BLE_2M	Ant1	2440	2.0745	2438.9840	2441.0585	---	---
BLE_2M	Ant1	2480	2.1228	2478.9526	2481.0754	---	---

Test Graphs



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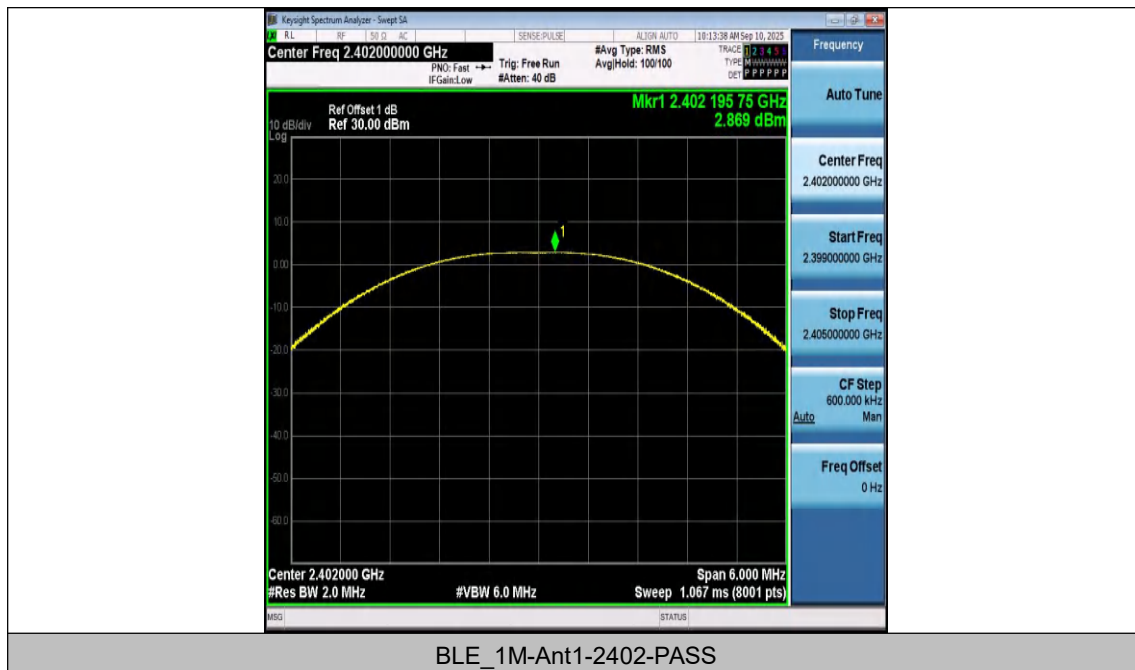
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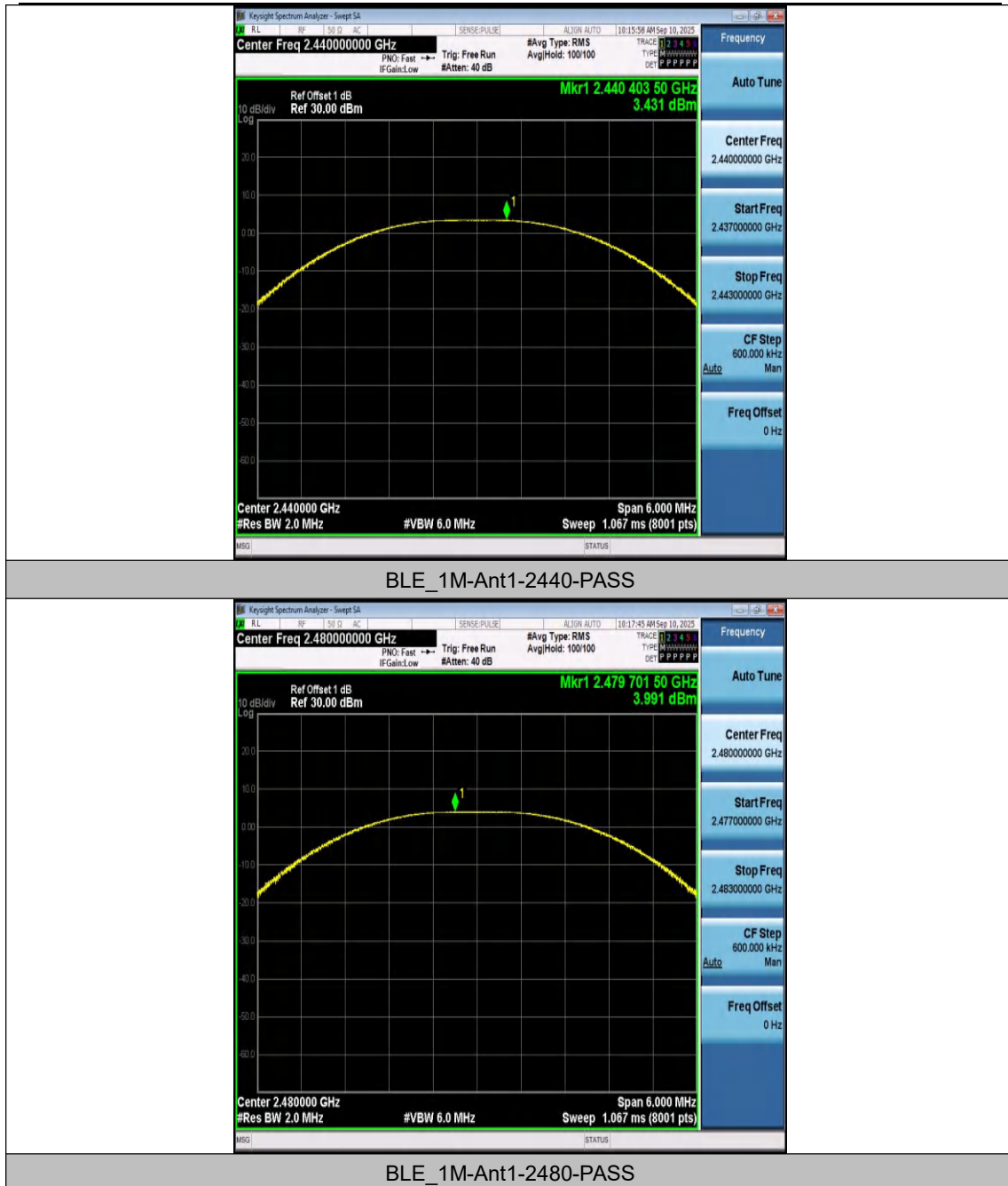
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.87	≤30	PASS
BLE_1M	Ant1	2440	3.43	≤30	PASS
BLE_1M	Ant1	2480	3.99	≤30	PASS
BLE_2M	Ant1	2402	2.98	≤30	PASS
BLE_2M	Ant1	2440	3.55	≤30	PASS
BLE_2M	Ant1	2480	4.08	≤30	PASS

Test Graphs Peak

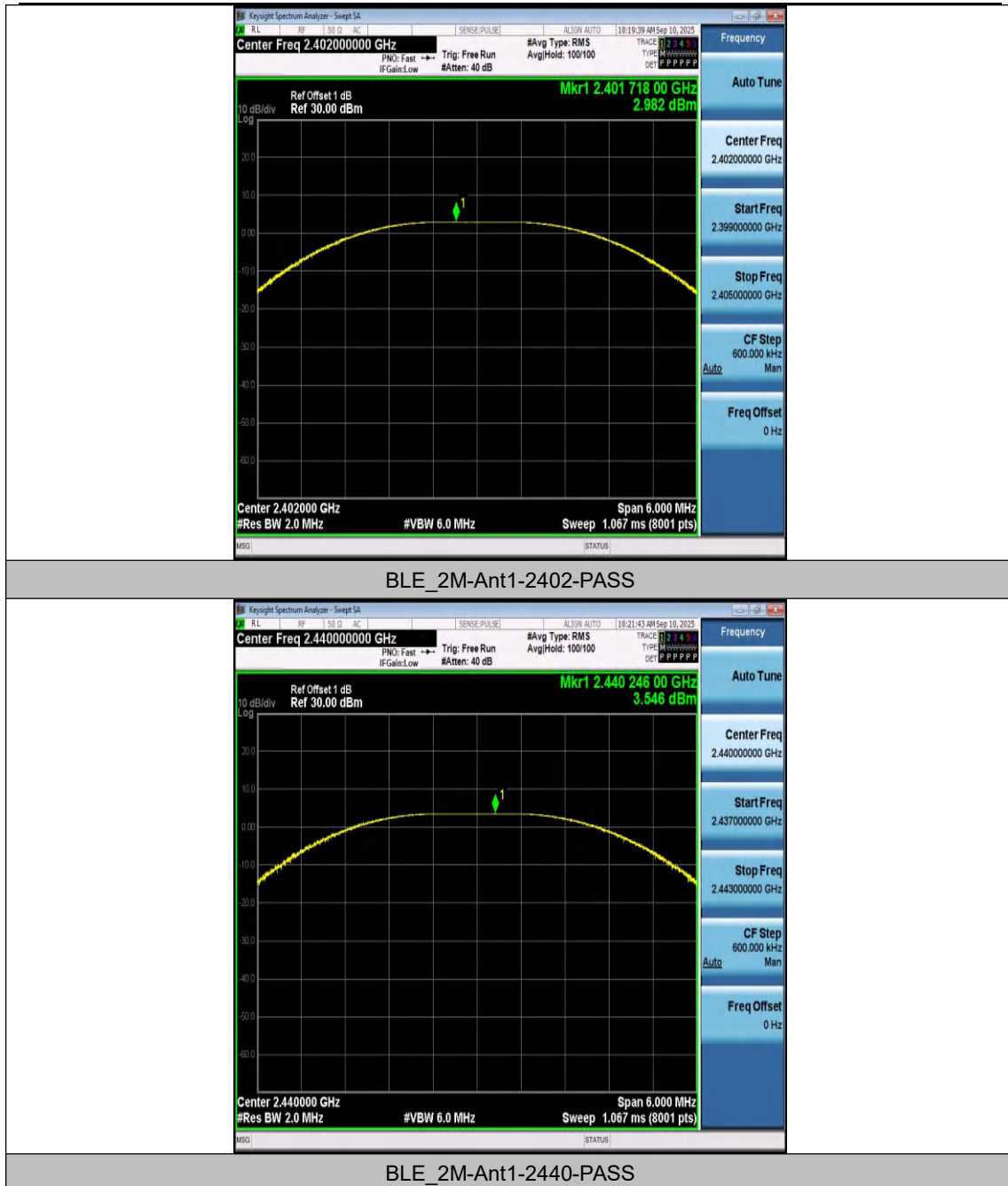




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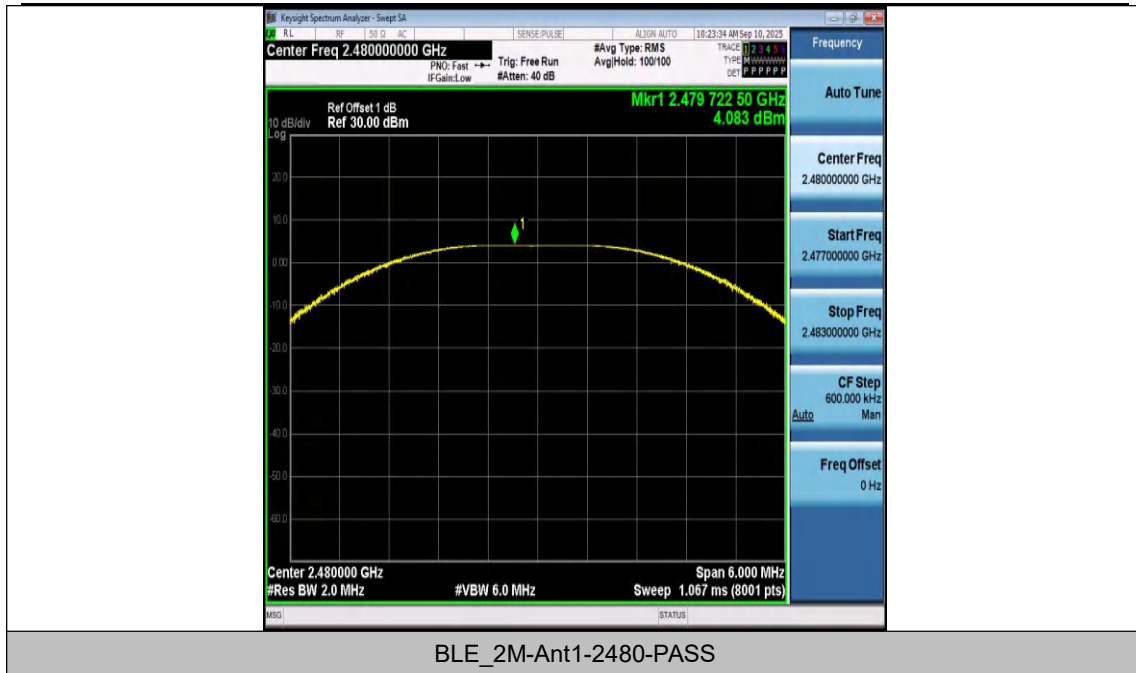
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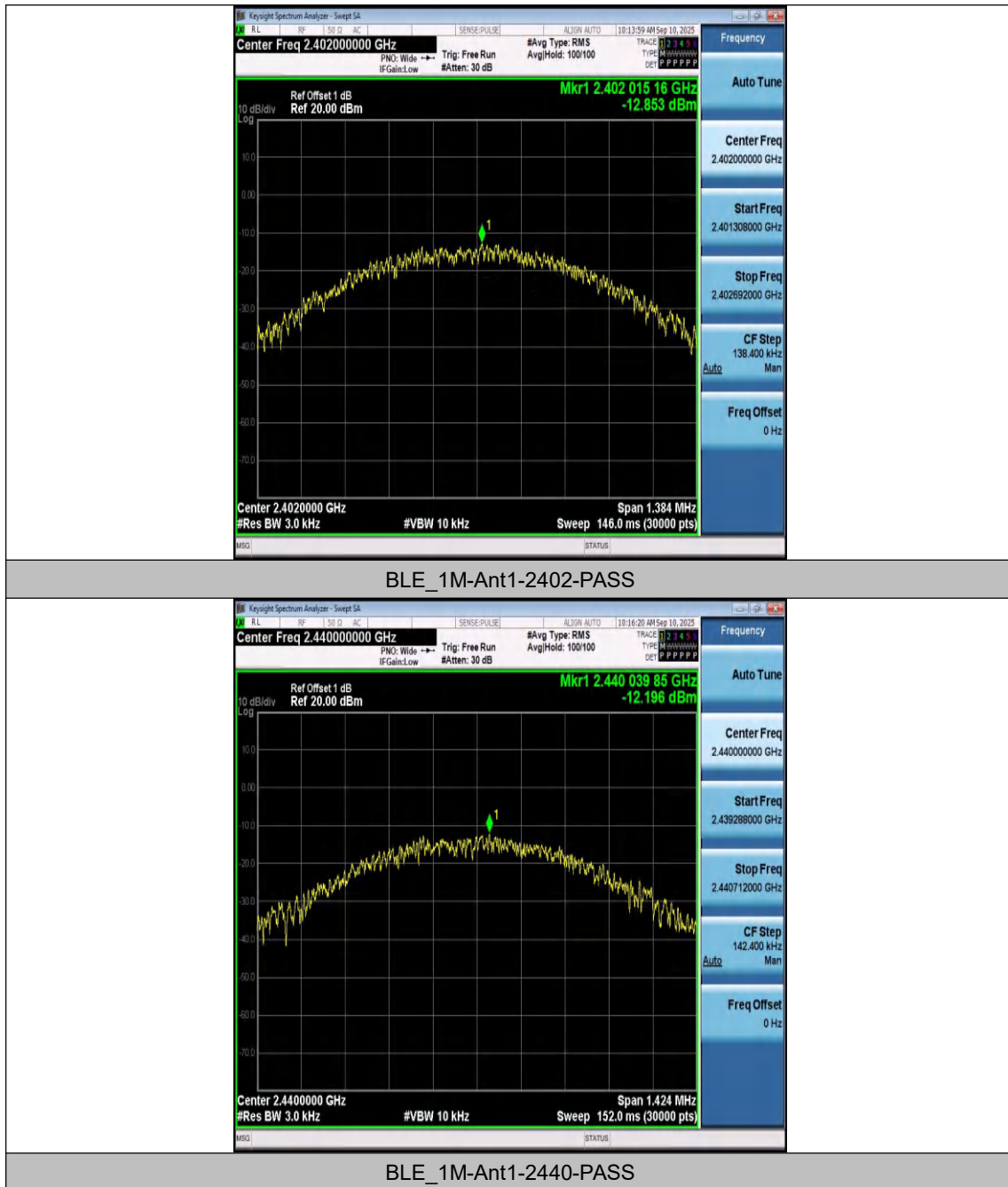
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.85	≤8.00	PASS
BLE_1M	Ant1	2440	-12.20	≤8.00	PASS
BLE_1M	Ant1	2480	-11.46	≤8.00	PASS
BLE_2M	Ant1	2402	-14.38	≤8.00	PASS
BLE_2M	Ant1	2440	-14.06	≤8.00	PASS
BLE_2M	Ant1	2480	-13.46	≤8.00	PASS

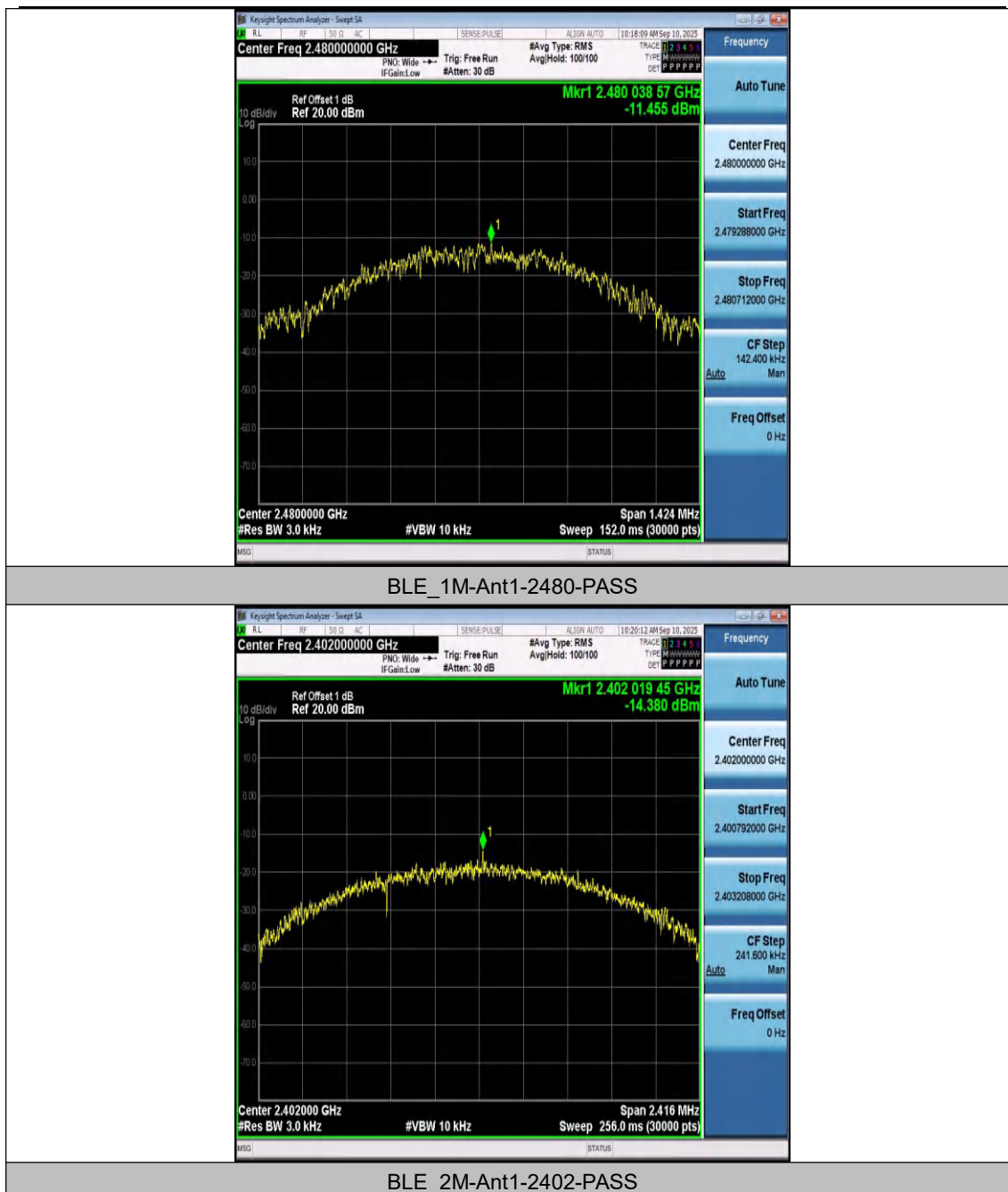
Test Graphs



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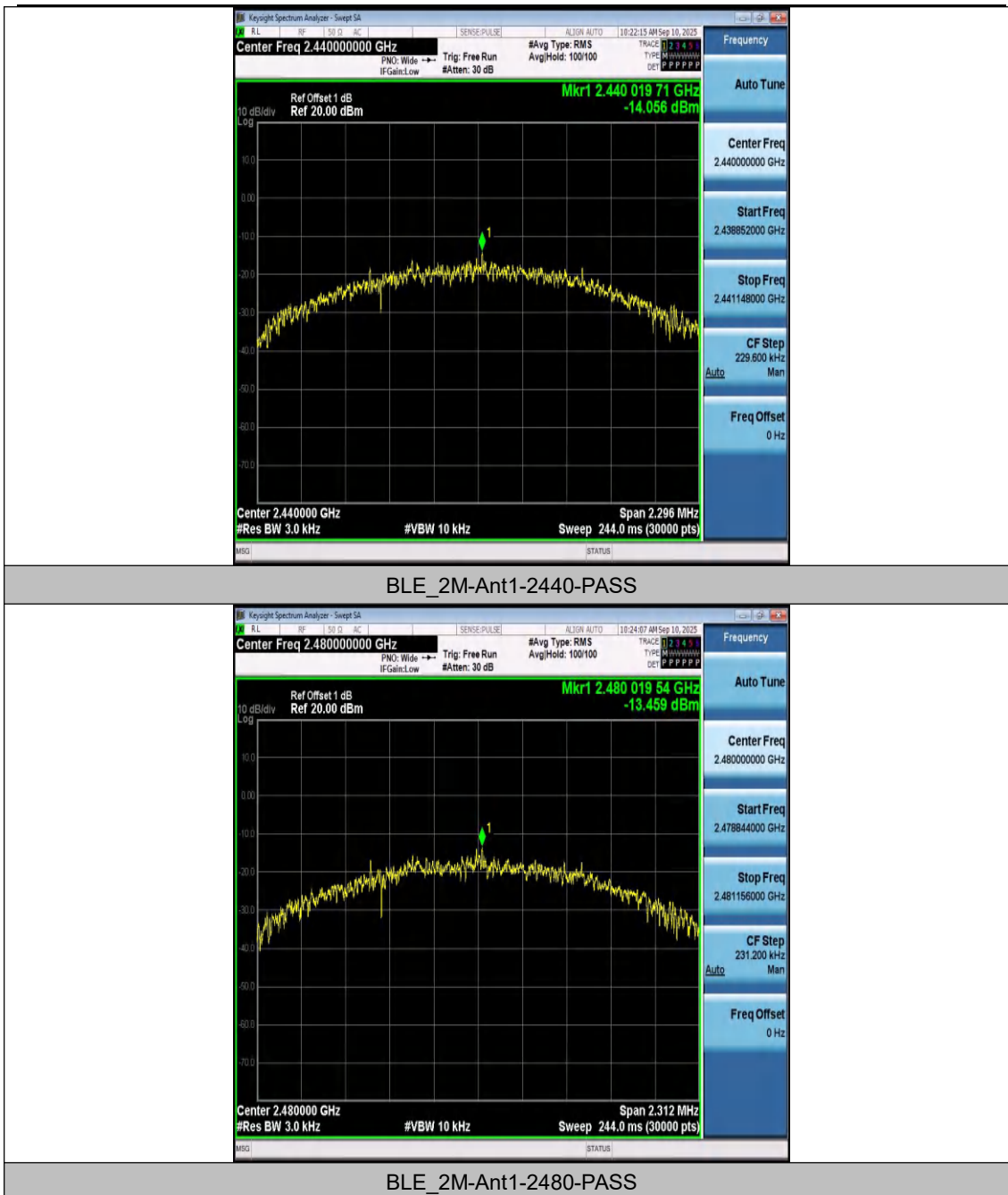
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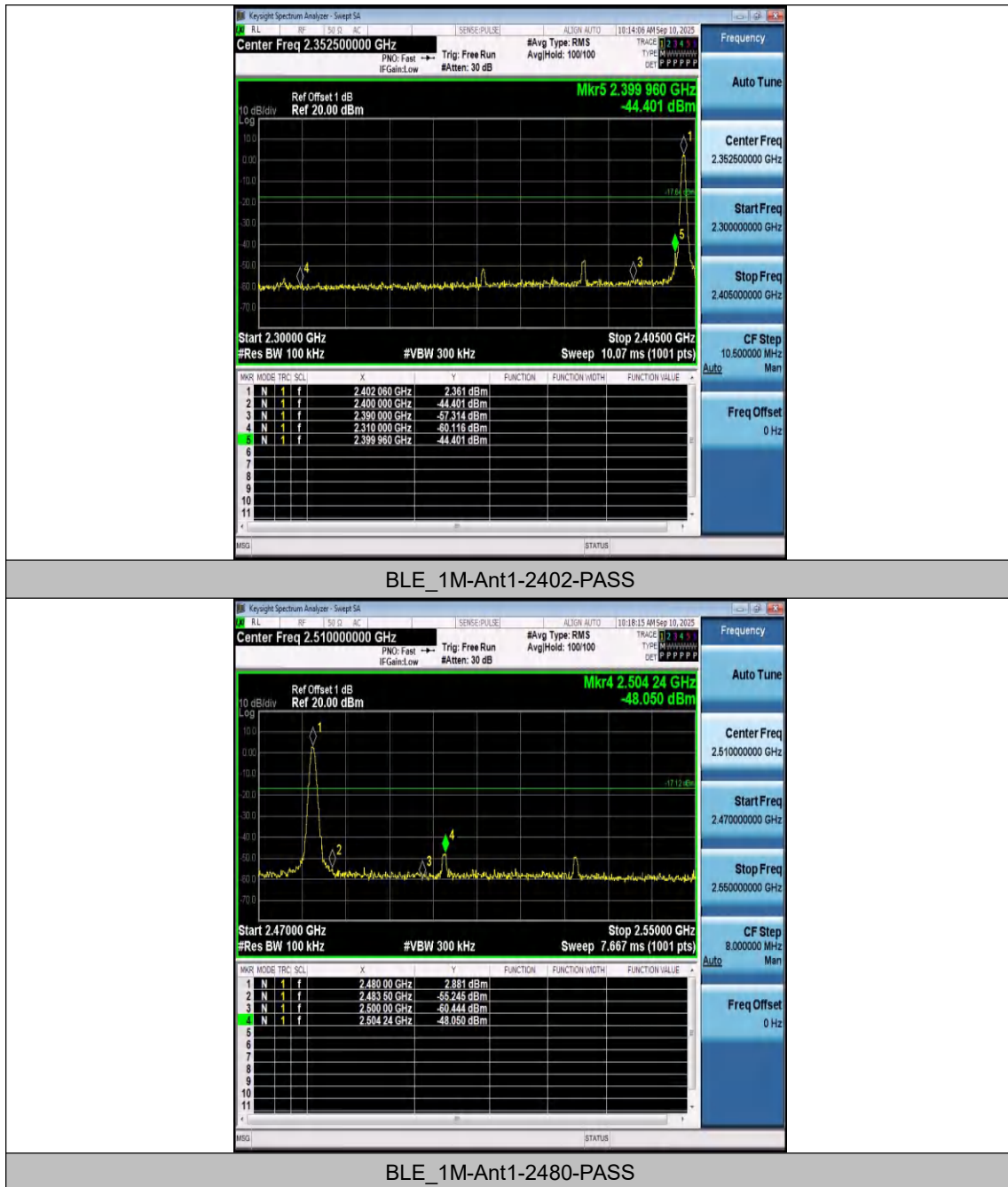
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.36	-44.4	≤-17.64	PASS
BLE_1M	Ant1	High	2480	2.88	-48.05	≤-17.12	PASS
BLE_2M	Ant1	Low	2402	2.22	-30.75	≤-17.78	PASS
BLE_2M	Ant1	High	2480	1.70	-49.69	≤-18.3	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.

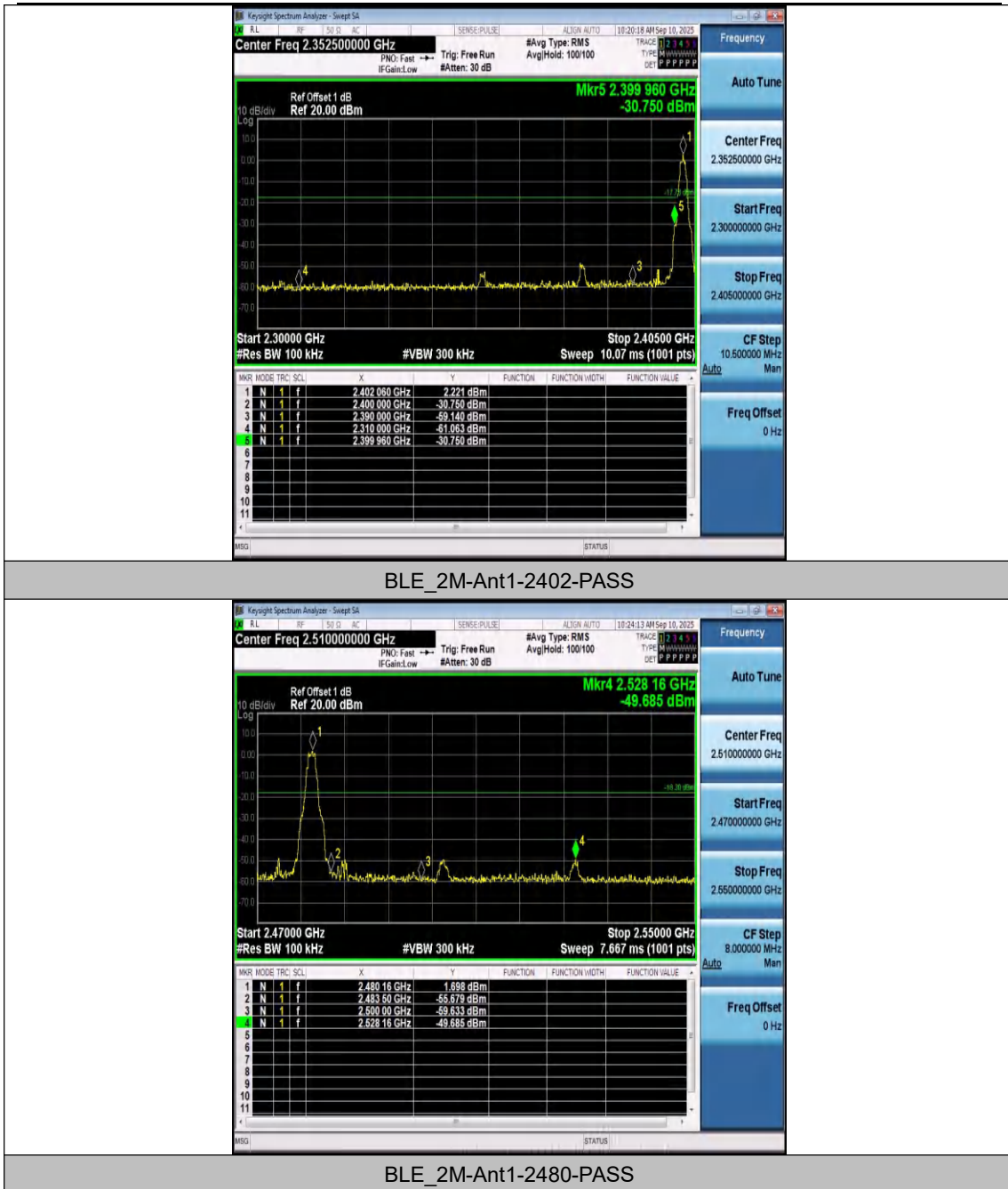
Test Graphs



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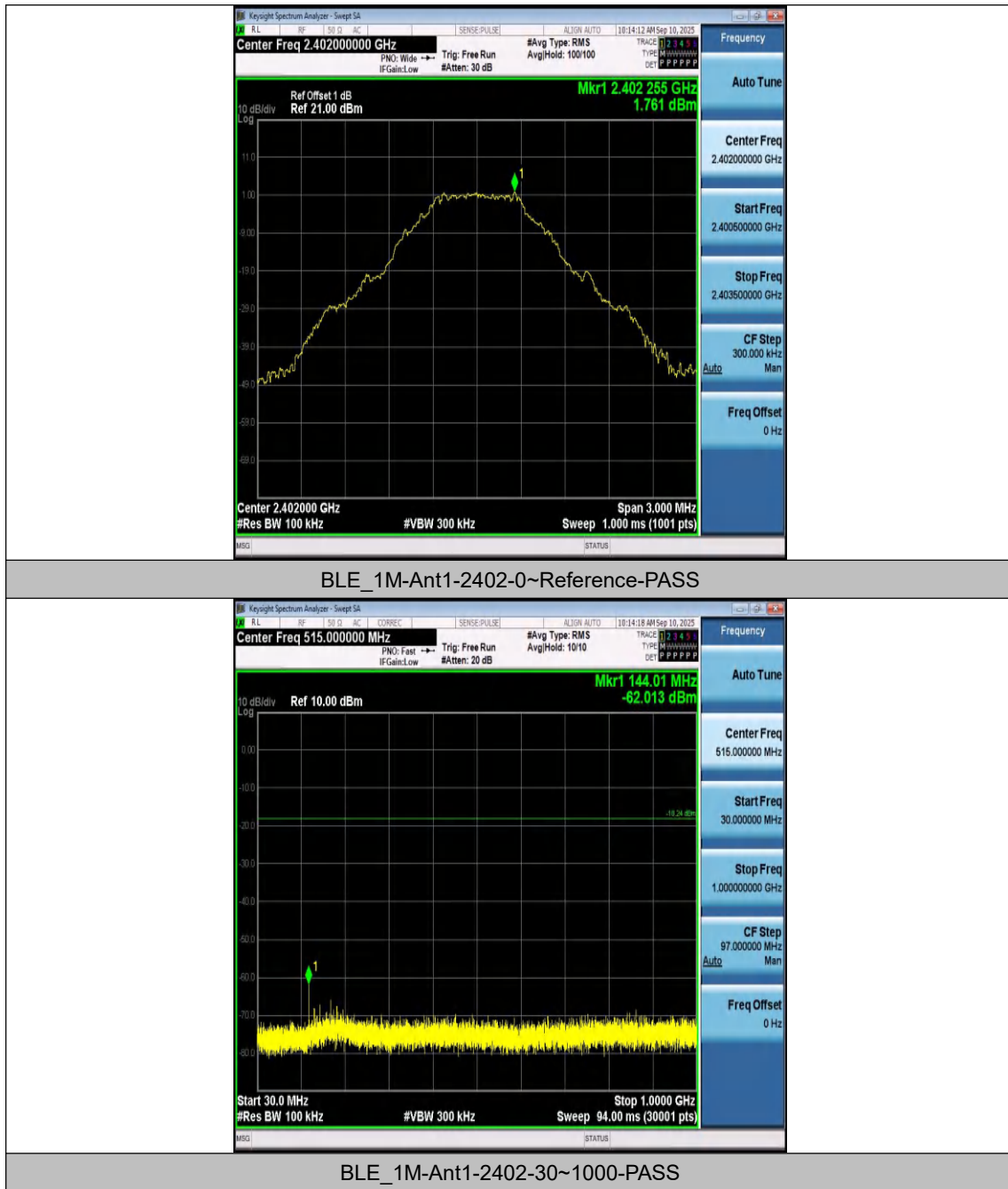
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	1.76	1.76	---	PASS
BLE_1M	Ant1	2402	30~1000	1.76	-62.01	≤-18.24	PASS
BLE_1M	Ant1	2402	1000~26500	1.76	-43.91	≤-18.24	PASS
BLE_1M	Ant1	2440	0~Reference	3.11	3.11	---	PASS
BLE_1M	Ant1	2440	30~1000	3.11	-63.69	≤-16.89	PASS
BLE_1M	Ant1	2440	1000~26500	3.11	-42	≤-16.89	PASS
BLE_1M	Ant1	2480	0~Reference	3.38	3.38	---	PASS
BLE_1M	Ant1	2480	30~1000	3.38	-62.19	≤-16.62	PASS
BLE_1M	Ant1	2480	1000~26500	3.38	-42.5	≤-16.62	PASS
BLE_2M	Ant1	2402	0~Reference	2.73	2.73	---	PASS
BLE_2M	Ant1	2402	30~1000	2.73	-64.07	≤-17.27	PASS
BLE_2M	Ant1	2402	1000~26500	2.73	-46.46	≤-17.27	PASS
BLE_2M	Ant1	2440	0~Reference	2.33	2.33	---	PASS
BLE_2M	Ant1	2440	30~1000	2.33	-64.36	≤-17.67	PASS
BLE_2M	Ant1	2440	1000~26500	2.33	-45.82	≤-17.67	PASS
BLE_2M	Ant1	2480	0~Reference	1.97	1.97	---	PASS
BLE_2M	Ant1	2480	30~1000	1.97	-63.4	≤-18.03	PASS
BLE_2M	Ant1	2480	1000~26500	1.97	-42.53	≤-18.03	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.

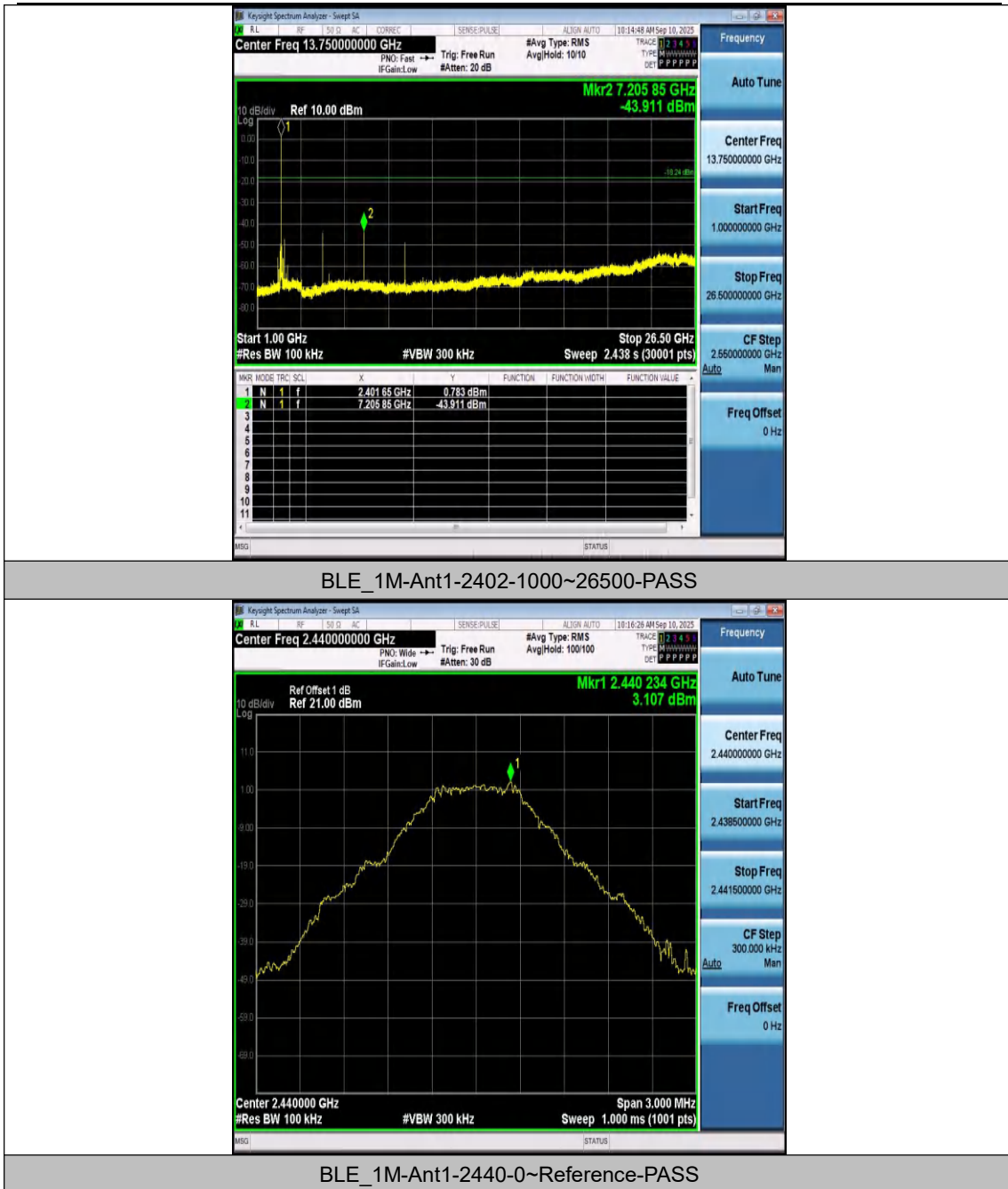
Test Graphs



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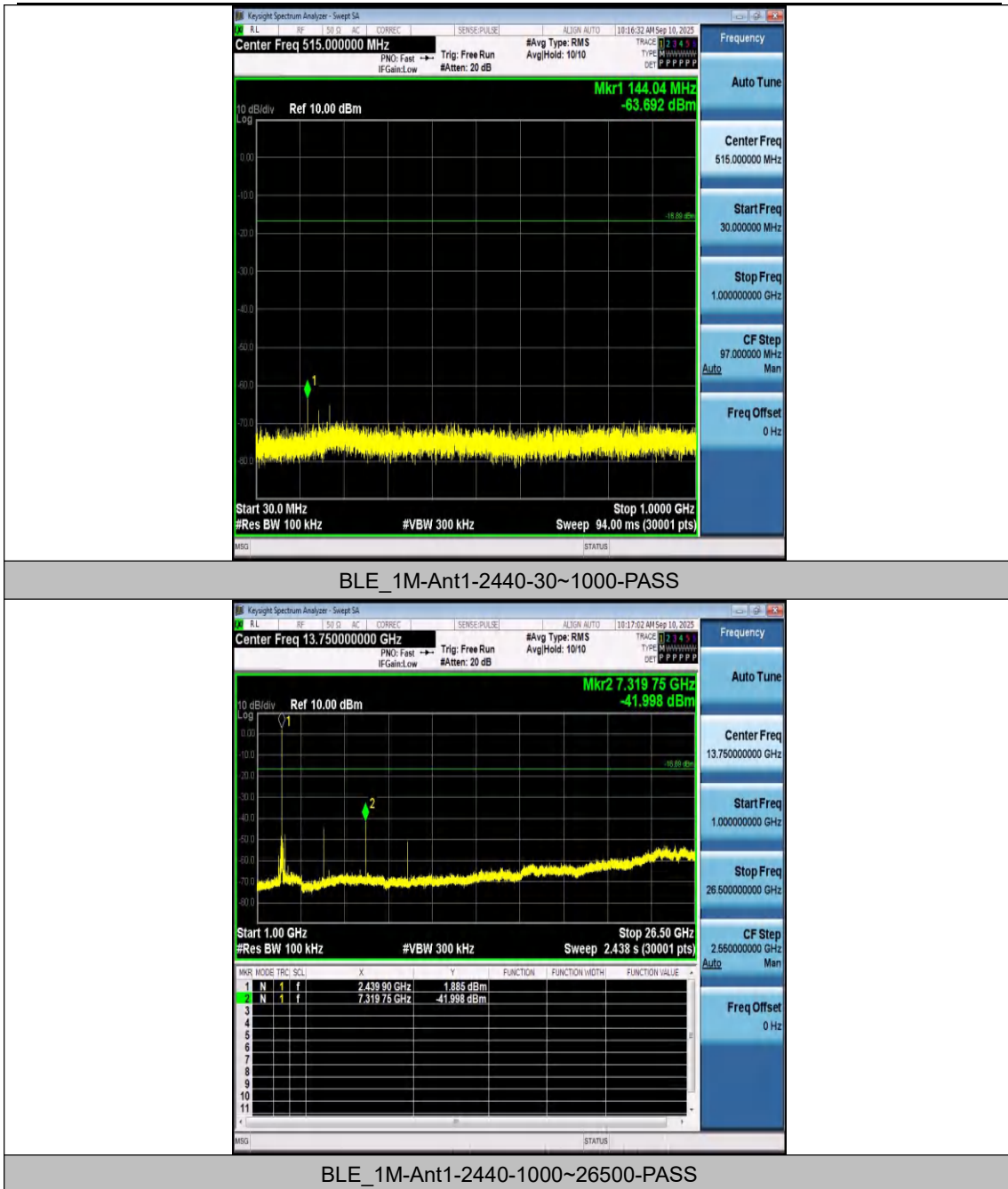
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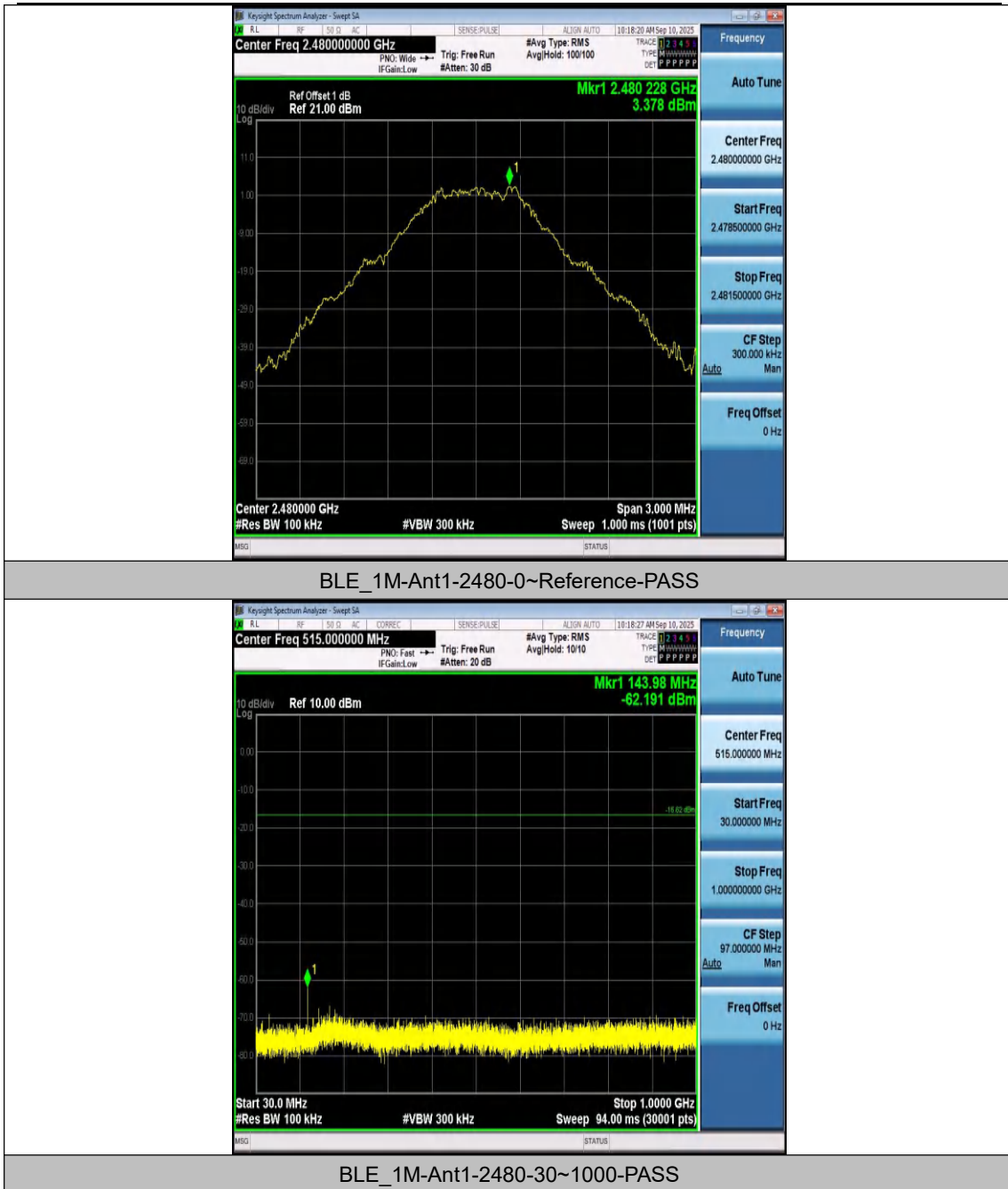
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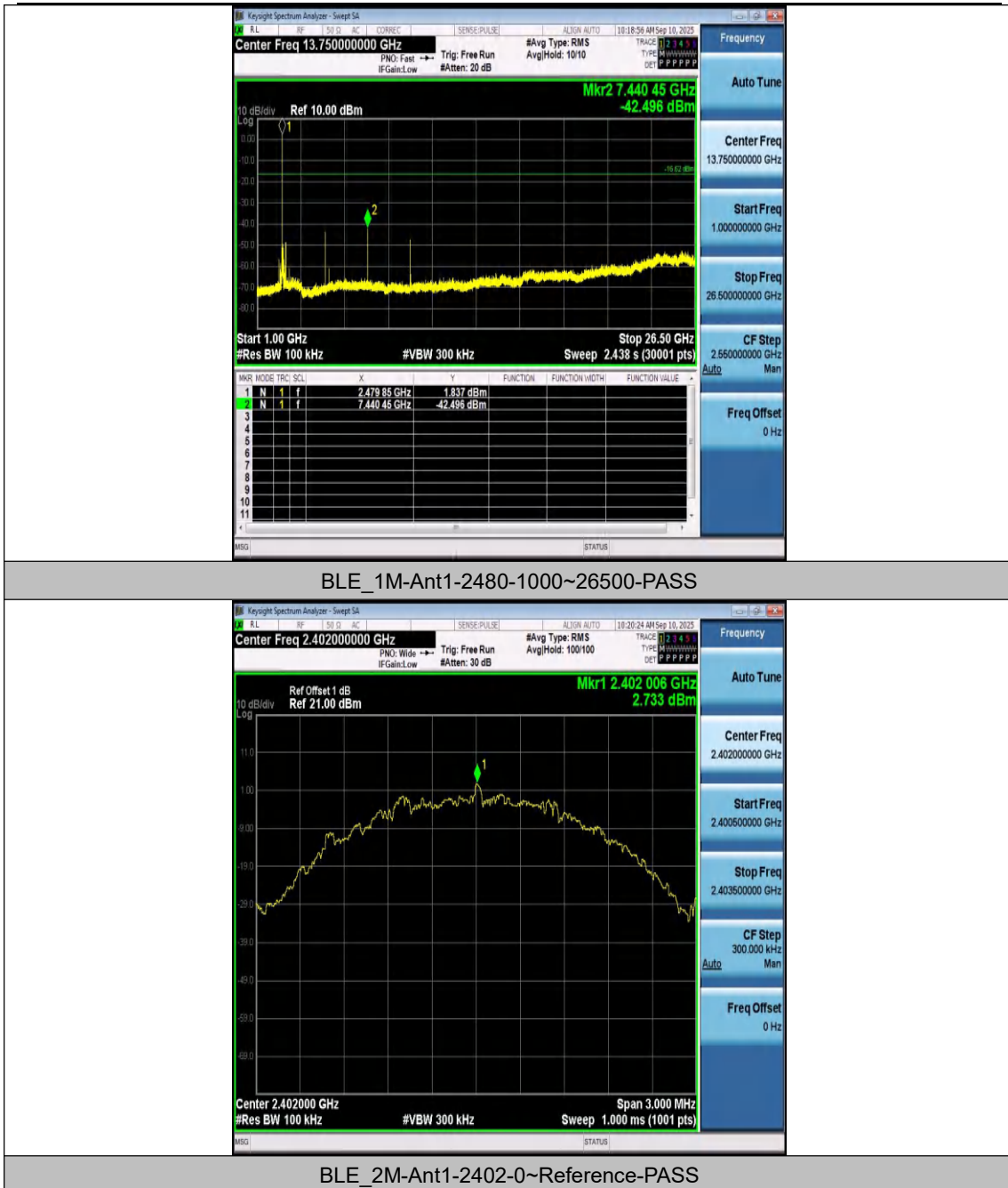
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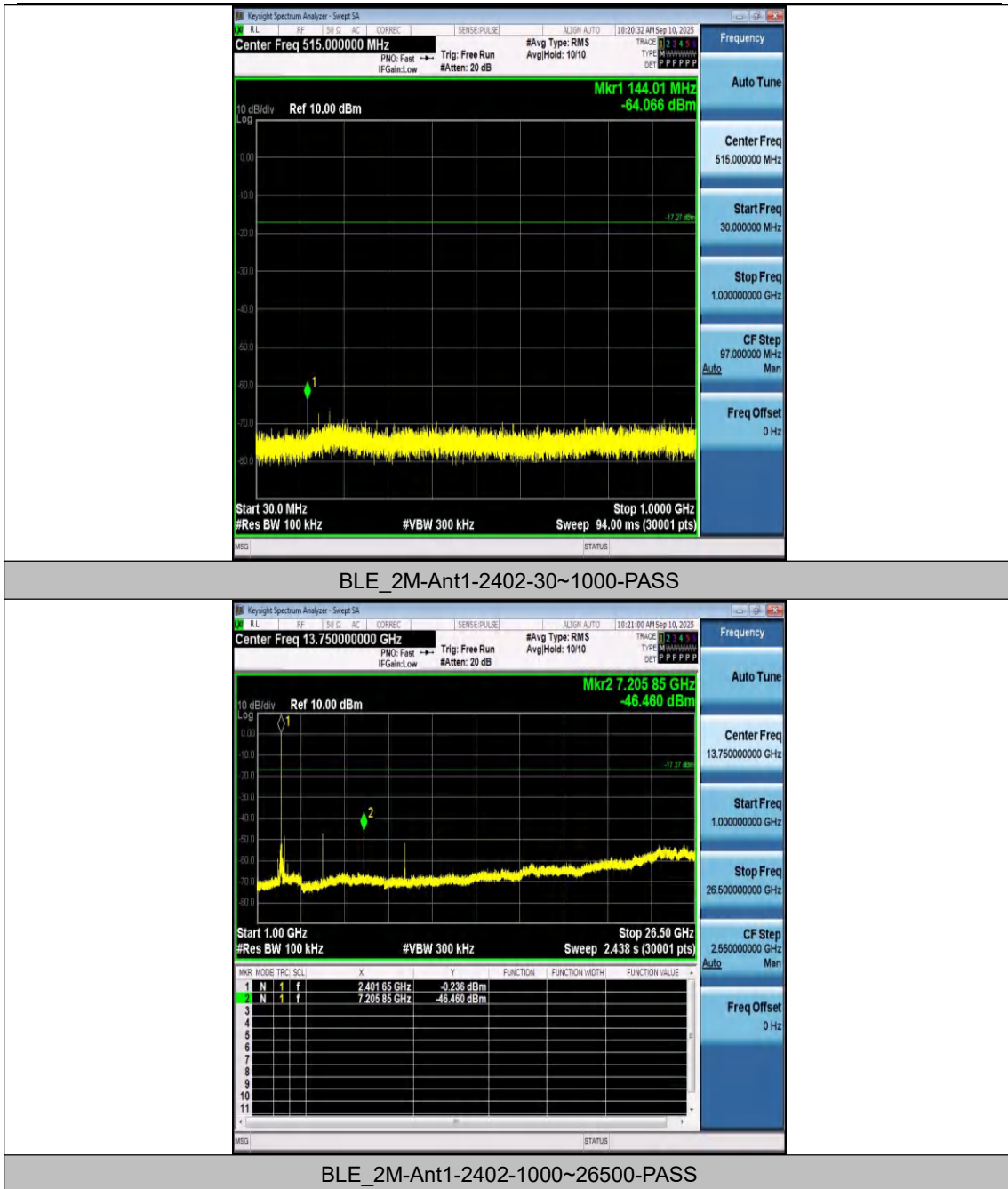
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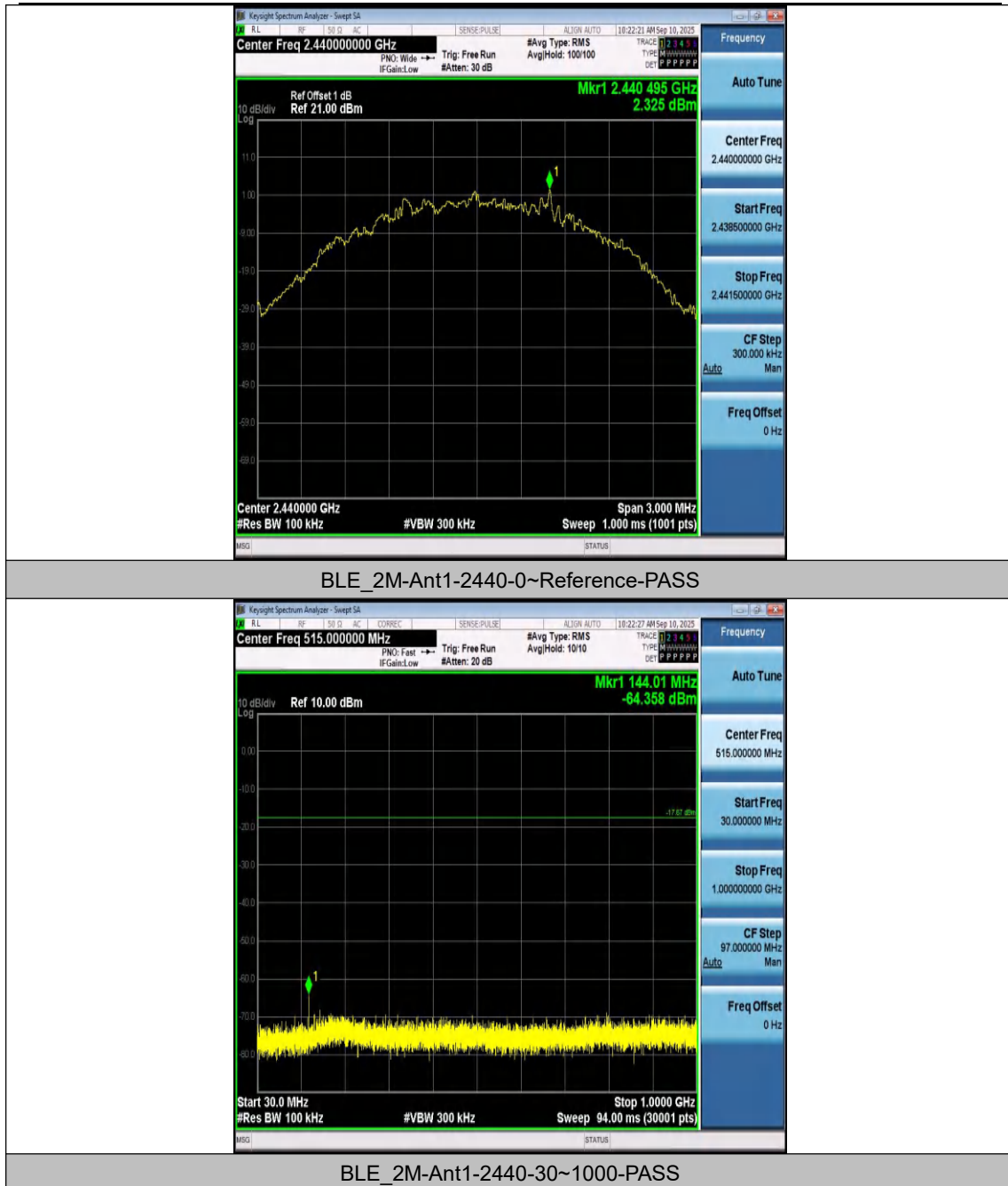
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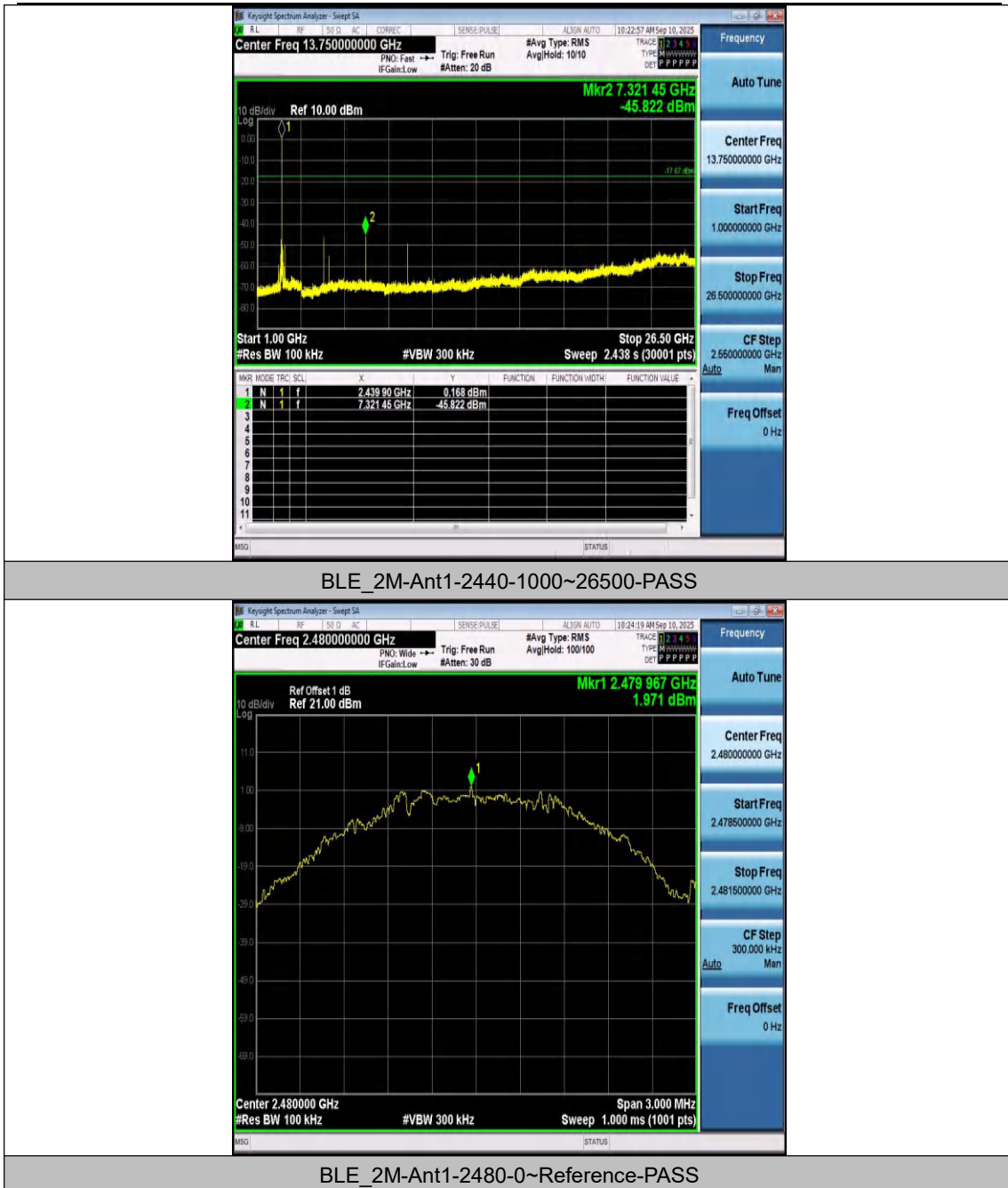
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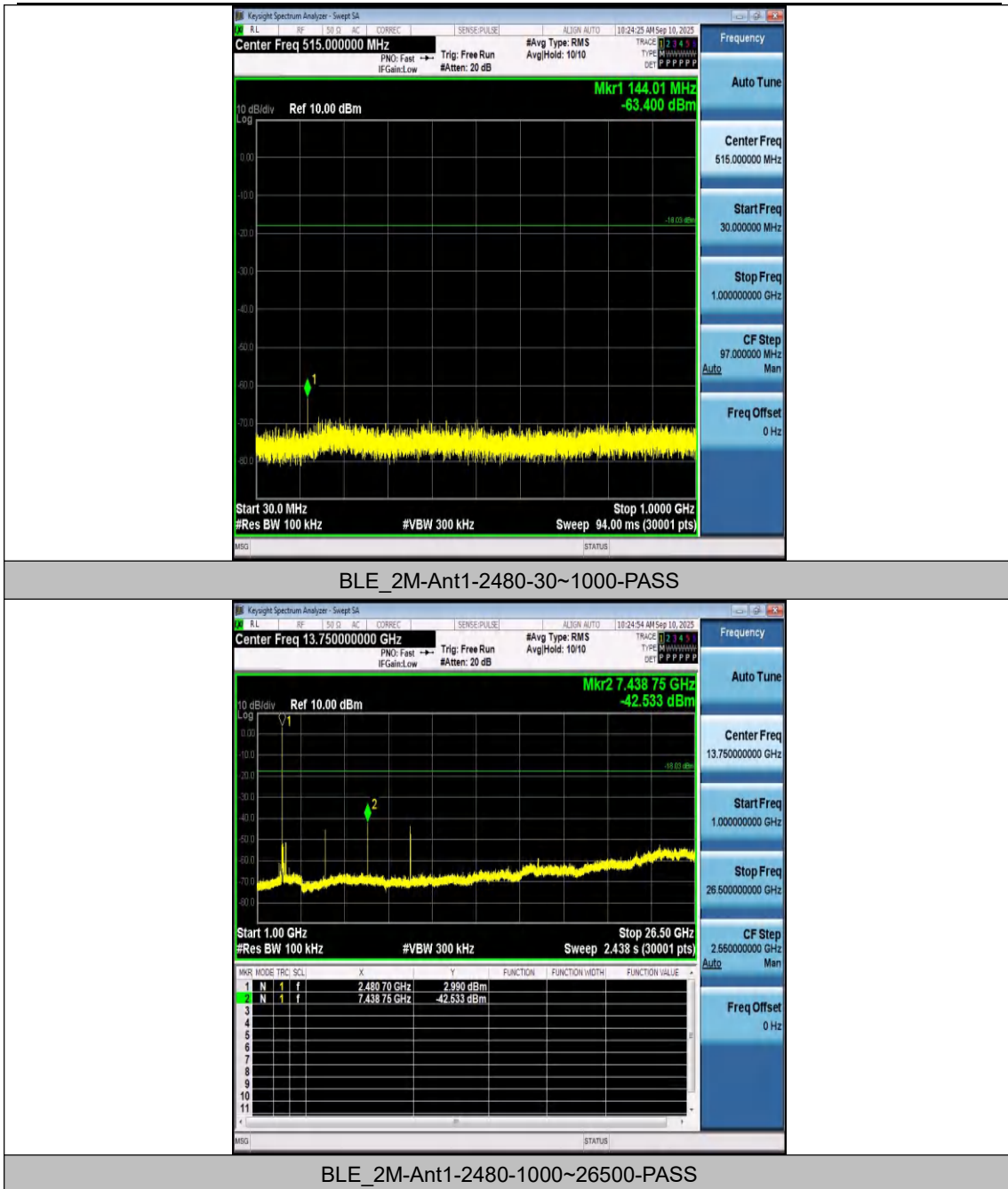
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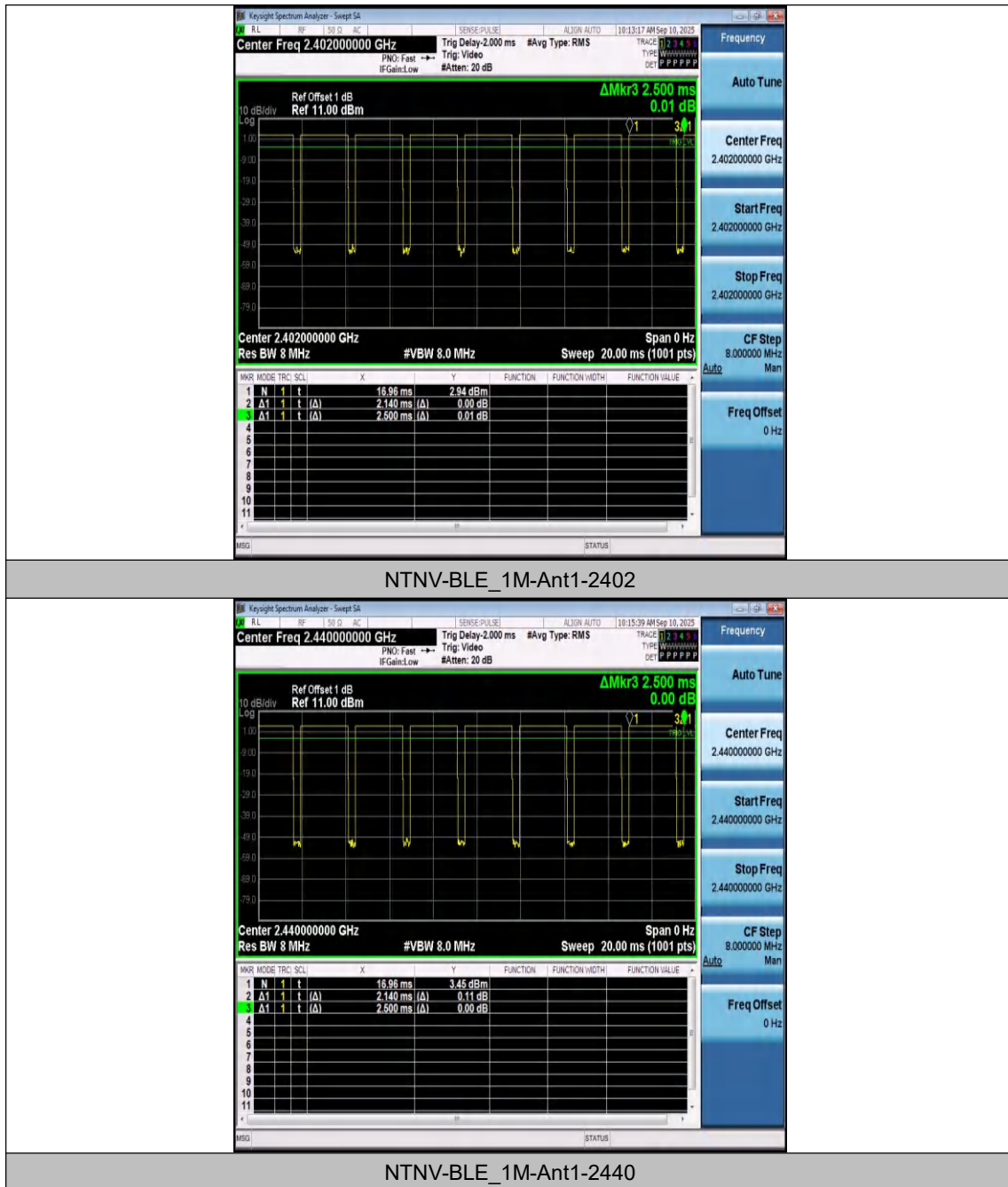
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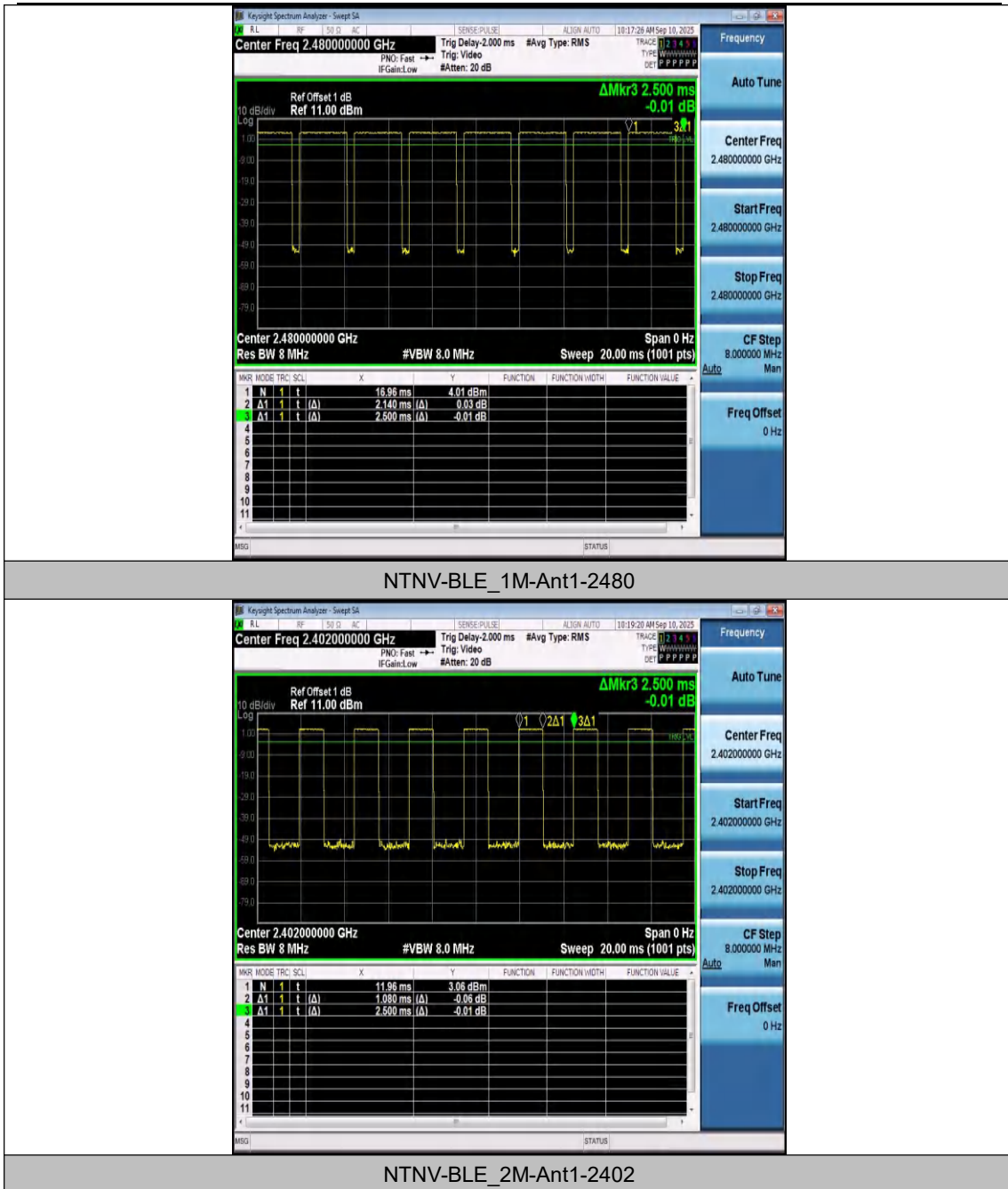
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.14	2.50	85.60	0.68
BLE_1M	Ant1	2440	2.14	2.50	85.60	0.68
BLE_1M	Ant1	2480	2.14	2.50	85.60	0.68
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	2.50	43.20	3.65

Test Graphs

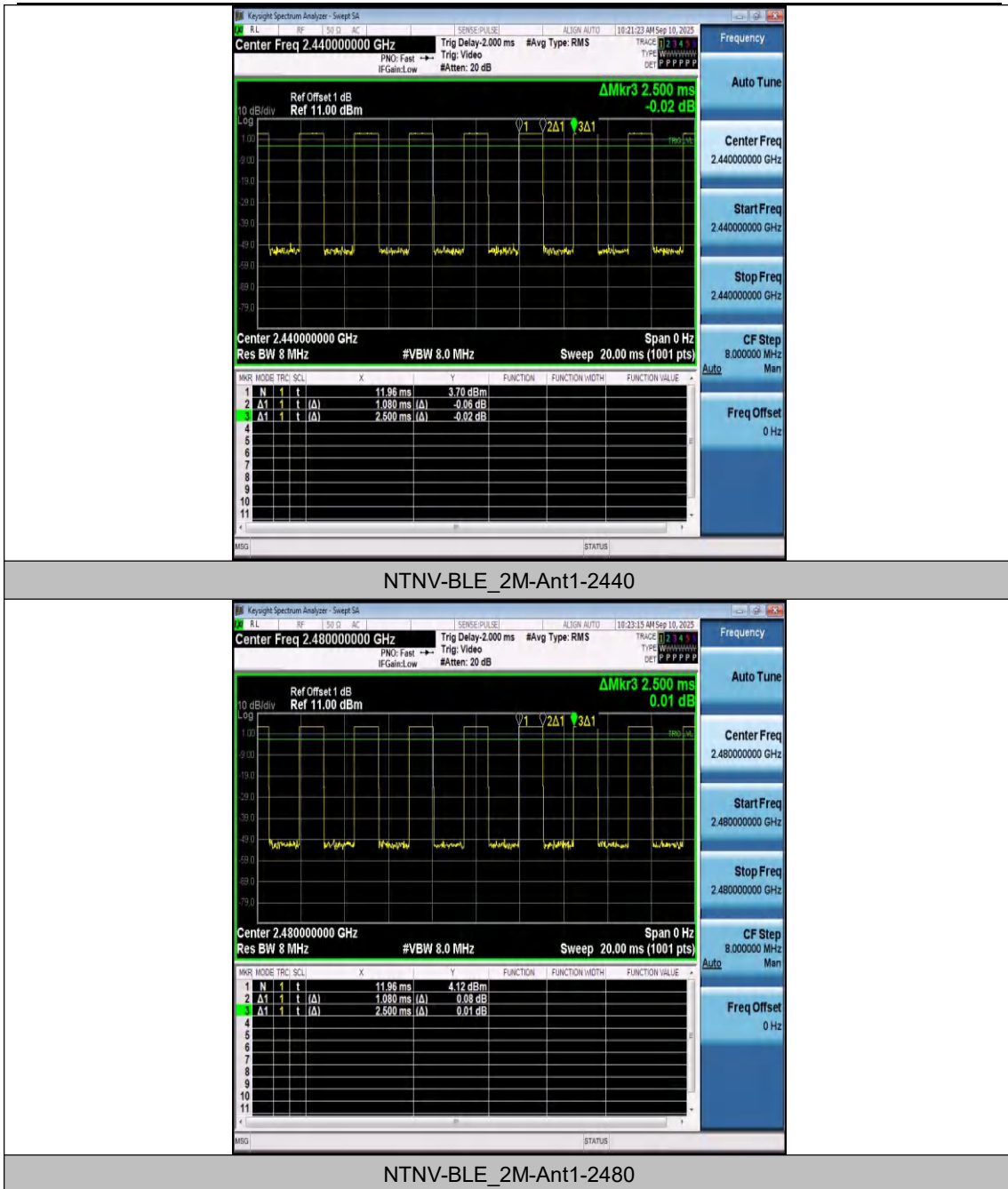




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