

Appendix Test Data

Report No.:	1812C50187412502	Test Sample No.:	1-2-2
Start Test Date:	2025.04.27	Finish Test Date:	2025.04.28
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	23.8°C	Relative Humidity:	43%
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	0.696	2401.652	2402.348	0.5	PASS
BLE_1M	Ant1	2440	0.724	2439.640	2440.364	0.5	PASS
BLE_1M	Ant1	2480	0.688	2479.664	2480.352	0.5	PASS
BLE_2M	Ant1	2402	1.120	2401.444	2402.564	0.5	PASS
BLE_2M	Ant1	2440	1.240	2439.356	2440.596	0.5	PASS
BLE_2M	Ant1	2480	1.232	2479.348	2480.580	0.5	PASS



Test Graphs





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Appendix B: 99% Occupied Bandwidth

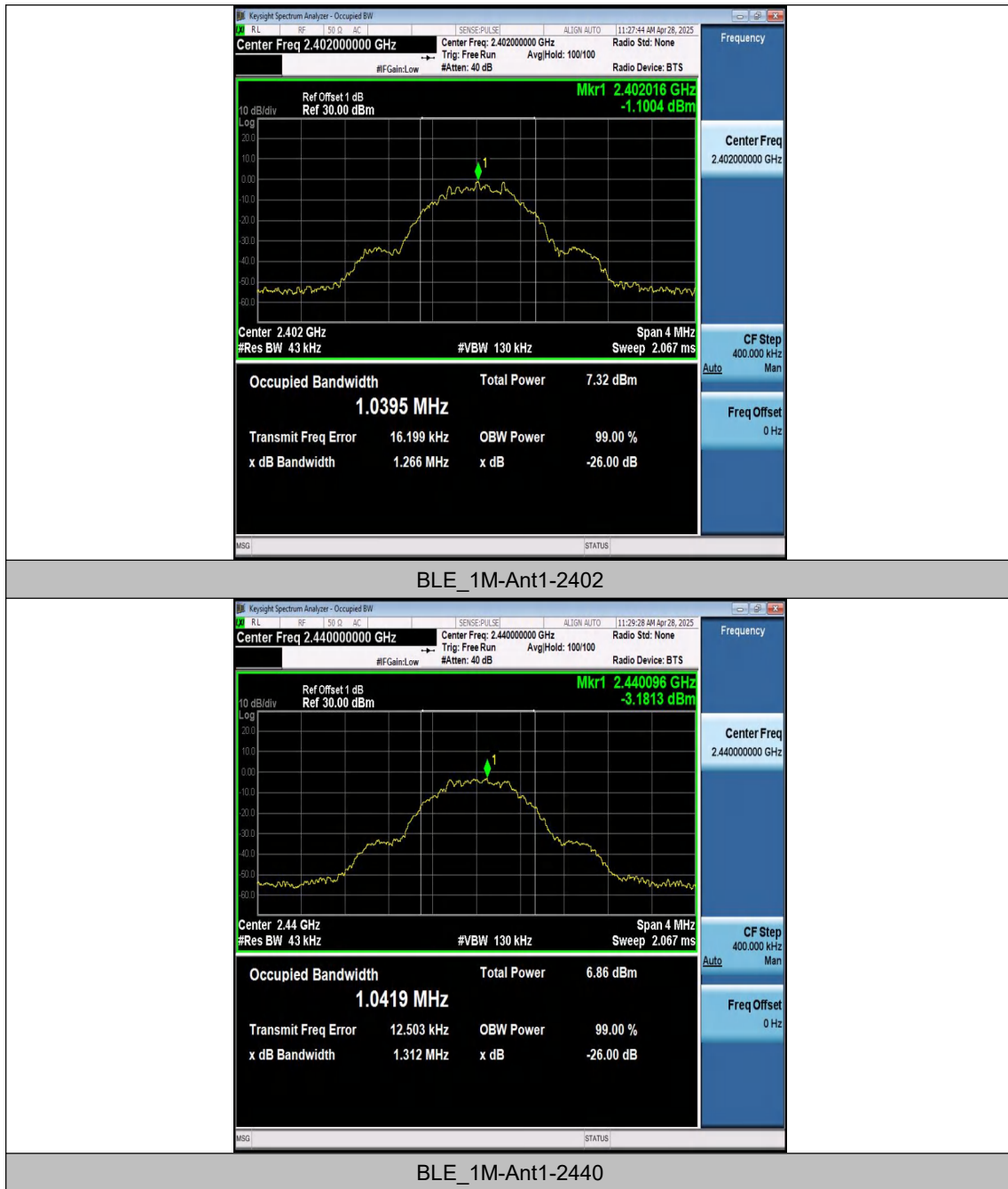
Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0395	2401.4965	2402.5360	---	---
BLE_1M	Ant1	2440	1.0419	2439.4916	2440.5335	---	---
BLE_1M	Ant1	2480	1.0346	2479.4961	2480.5307	---	---
BLE_2M	Ant1	2402	2.0670	2400.9878	2403.0548	---	---
BLE_2M	Ant1	2440	2.0720	2438.9842	2441.0562	---	---
BLE_2M	Ant1	2480	2.0715	2478.9905	2481.0620	---	---

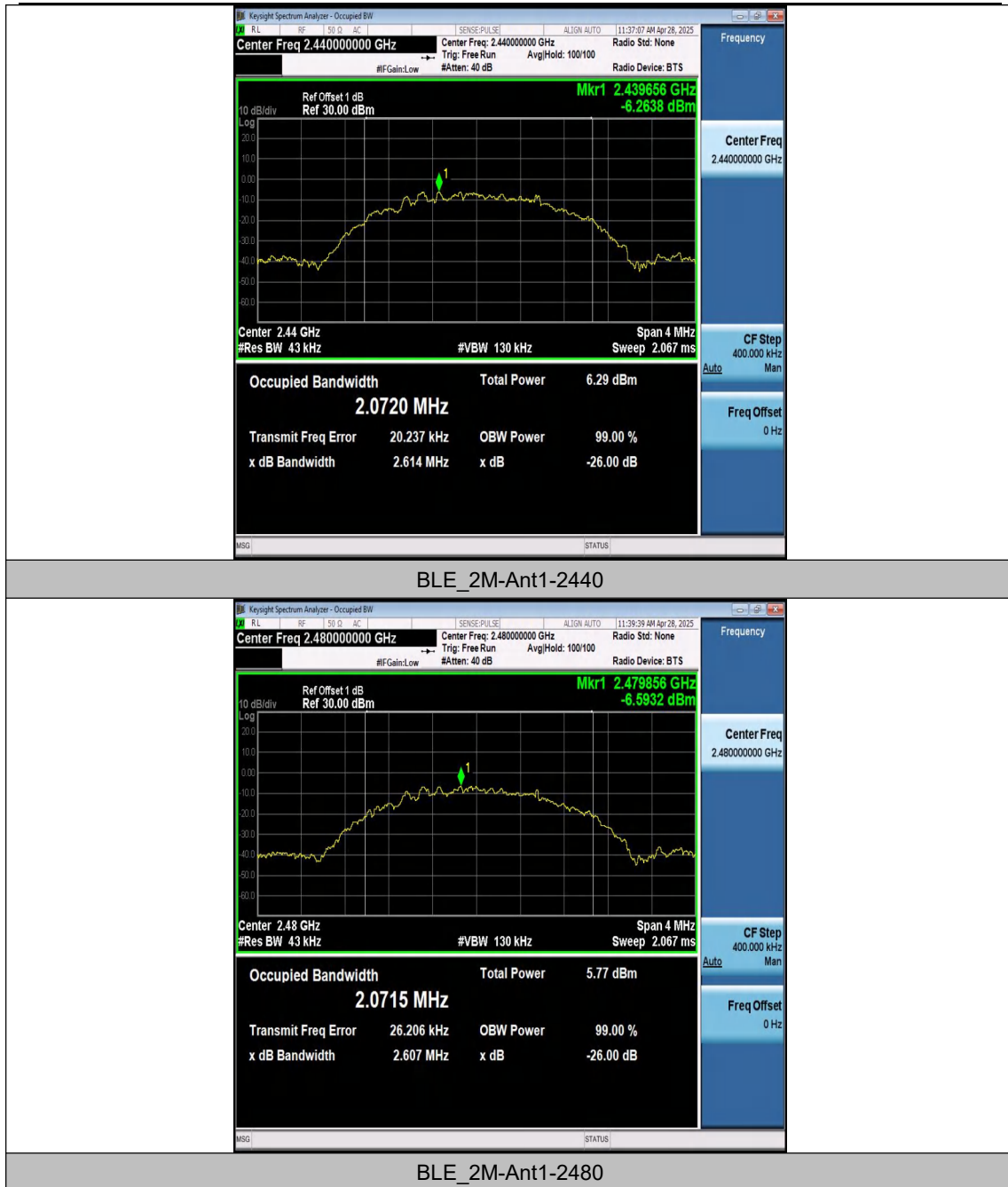
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Test Graphs





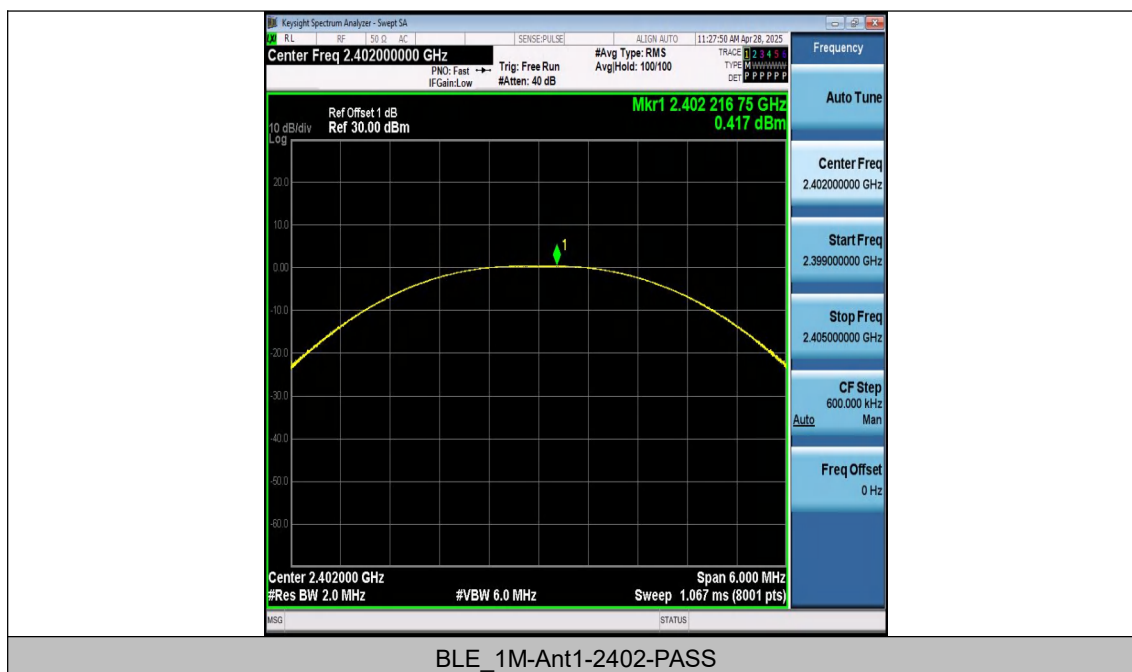


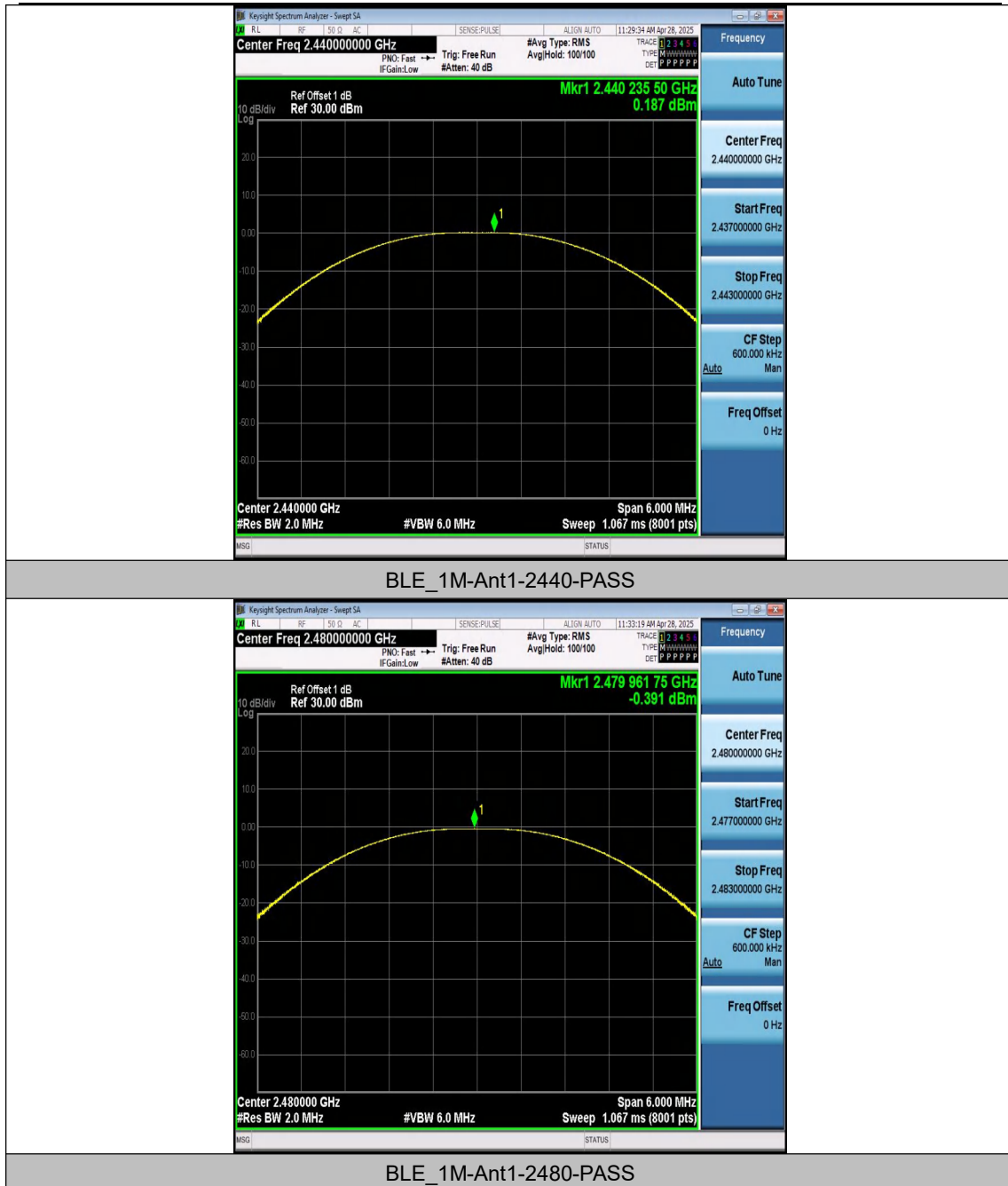
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.42	≤30	PASS
BLE_1M	Ant1	2440	0.19	≤30	PASS
BLE_1M	Ant1	2480	-0.39	≤30	PASS
BLE_2M	Ant1	2402	0.45	≤30	PASS
BLE_2M	Ant1	2440	0.30	≤30	PASS
BLE_2M	Ant1	2480	-0.28	≤30	PASS

Test Graphs Peak



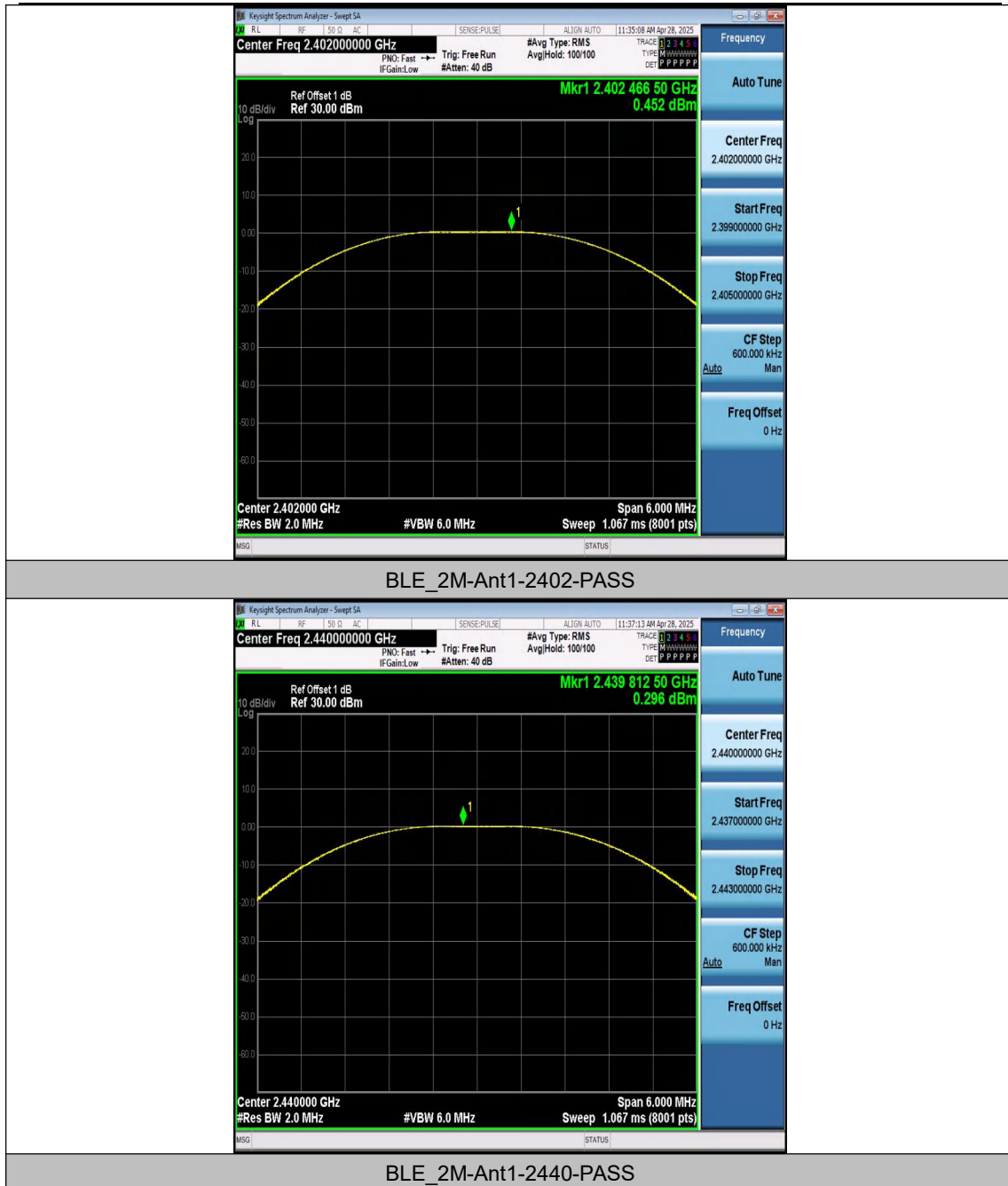


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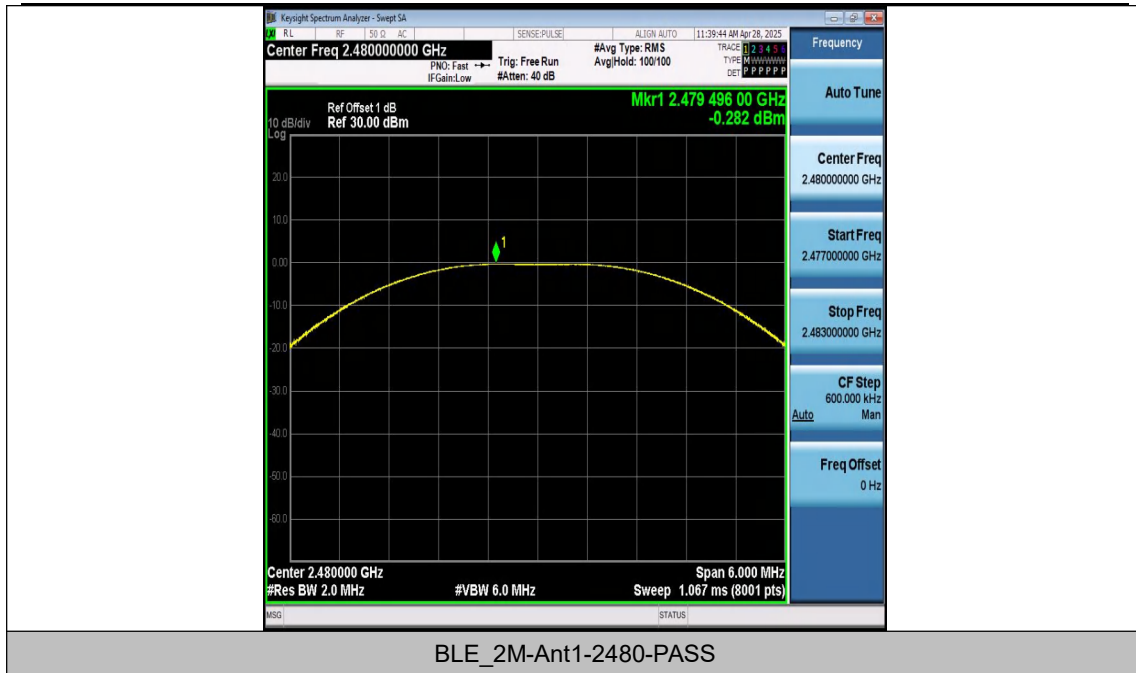
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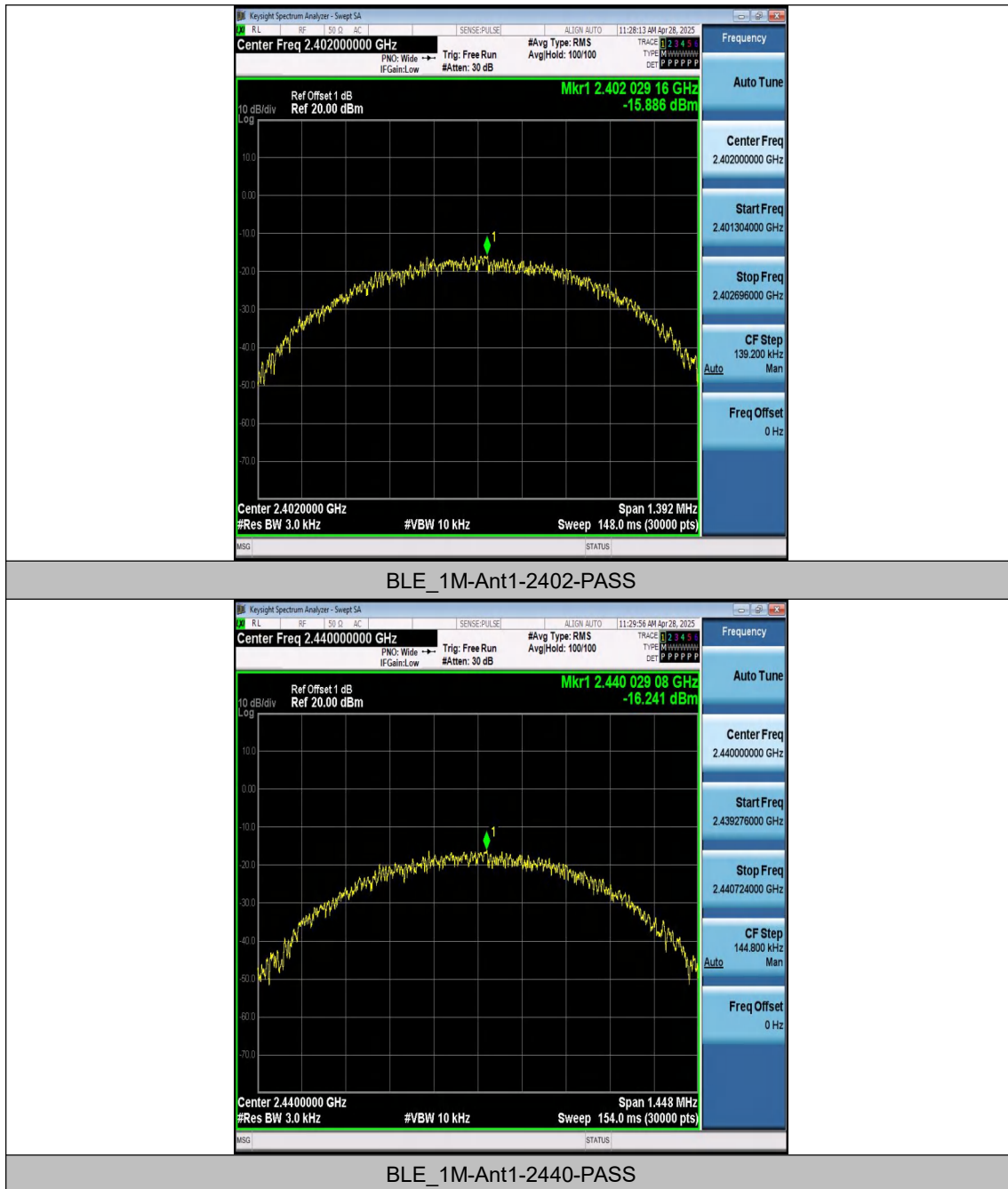
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.89	≤8.00	PASS
BLE_1M	Ant1	2440	-16.24	≤8.00	PASS
BLE_1M	Ant1	2480	-16.59	≤8.00	PASS
BLE_2M	Ant1	2402	-17.92	≤8.00	PASS
BLE_2M	Ant1	2440	-18.25	≤8.00	PASS
BLE_2M	Ant1	2480	-18.43	≤8.00	PASS



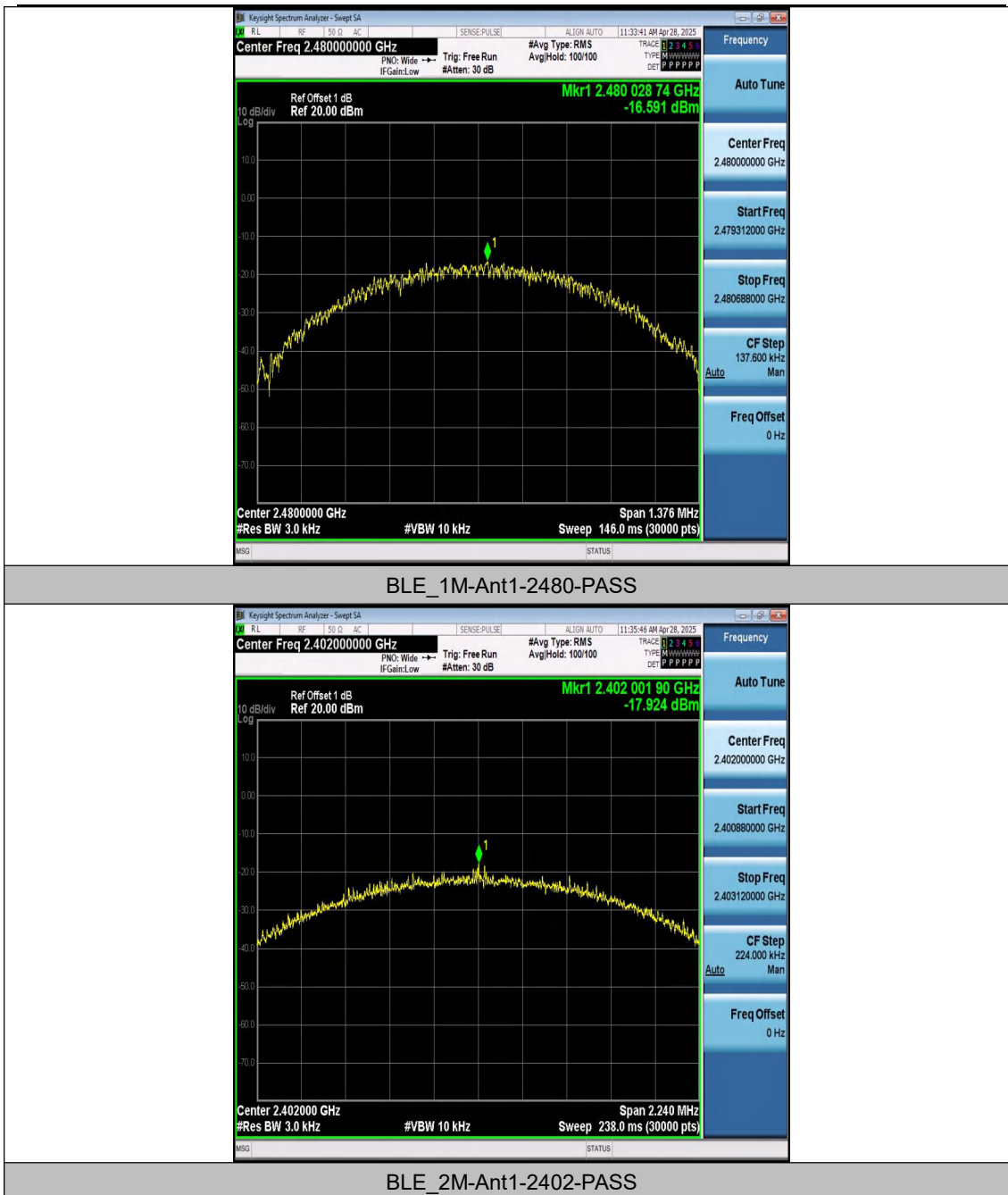
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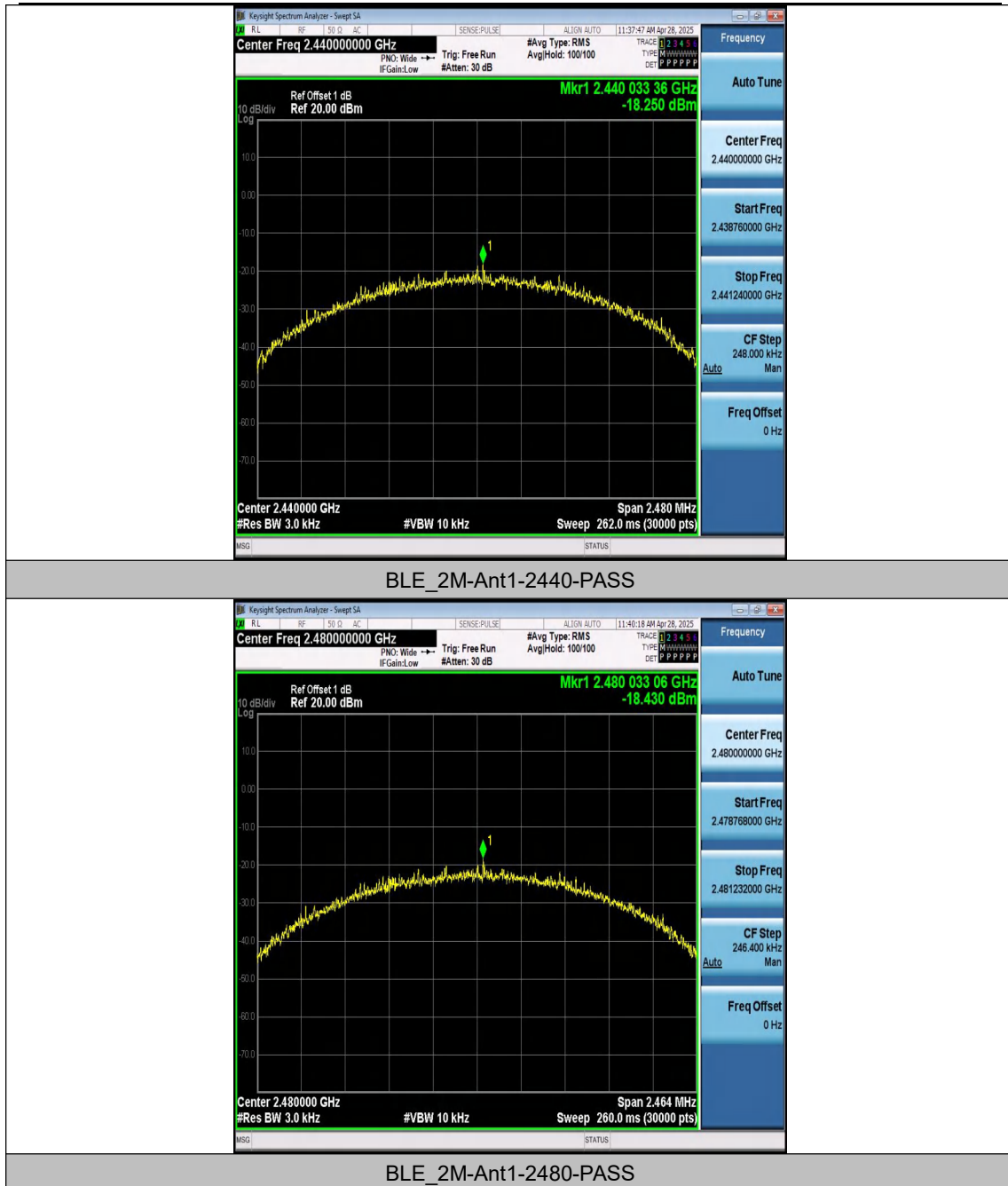


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Appendix E: Band edge measurements

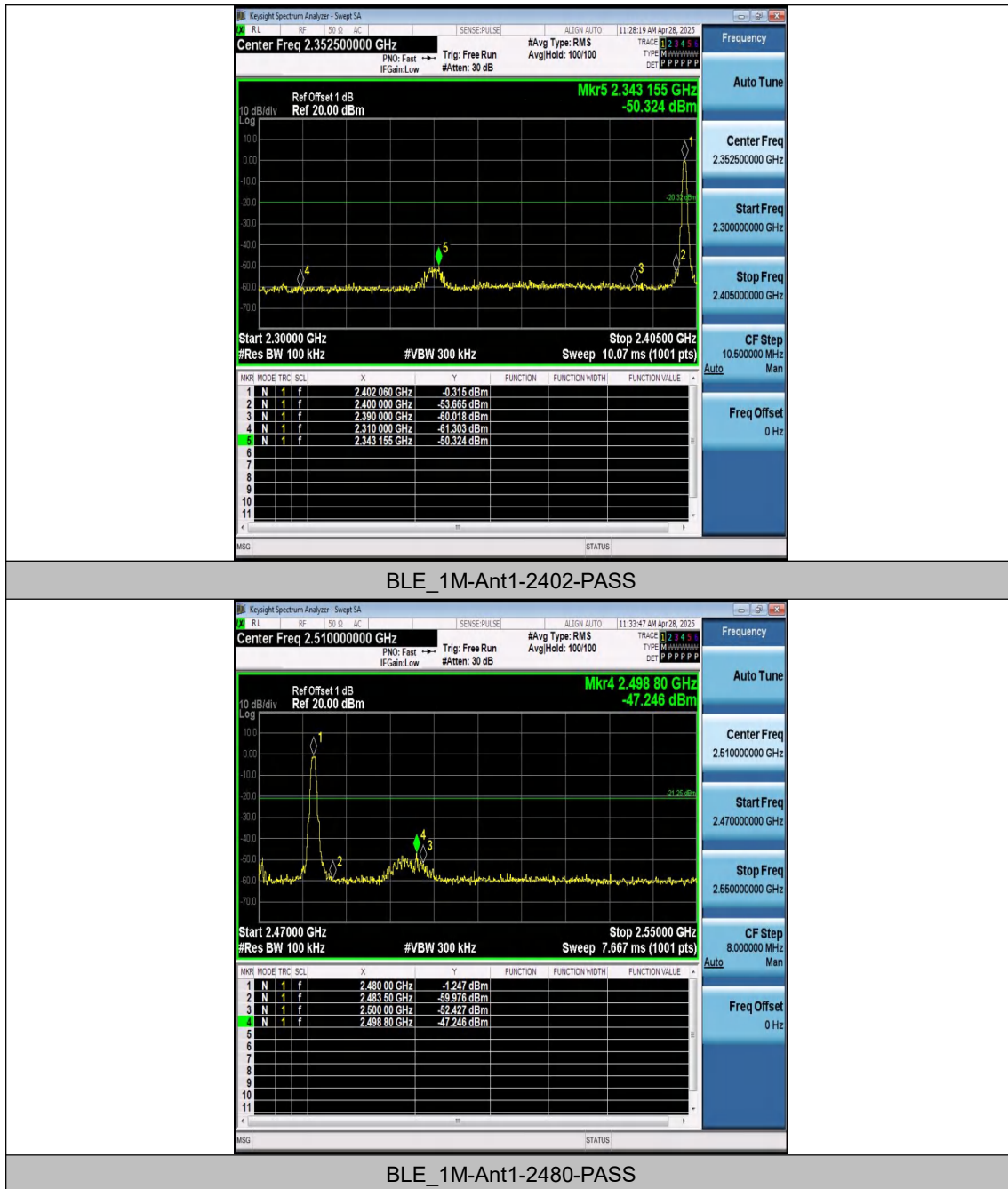
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.32	-50.32	≤-20.32	PASS
BLE_1M	Ant1	High	2480	-1.25	-47.25	≤-21.25	PASS
BLE_2M	Ant1	Low	2402	-2.36	-34.67	≤-22.36	PASS
BLE_2M	Ant1	High	2480	-1.91	-48.69	≤-21.91	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.



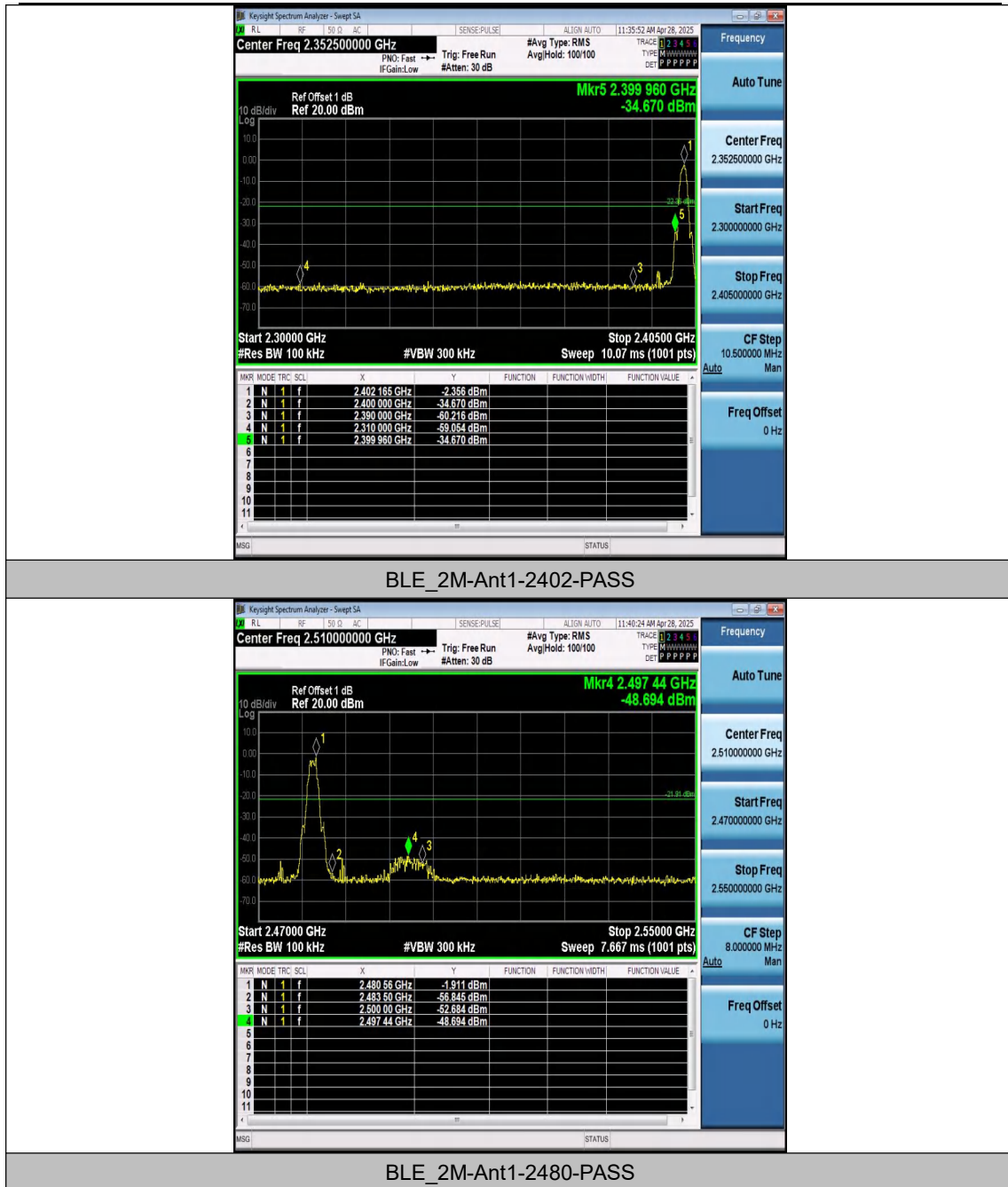
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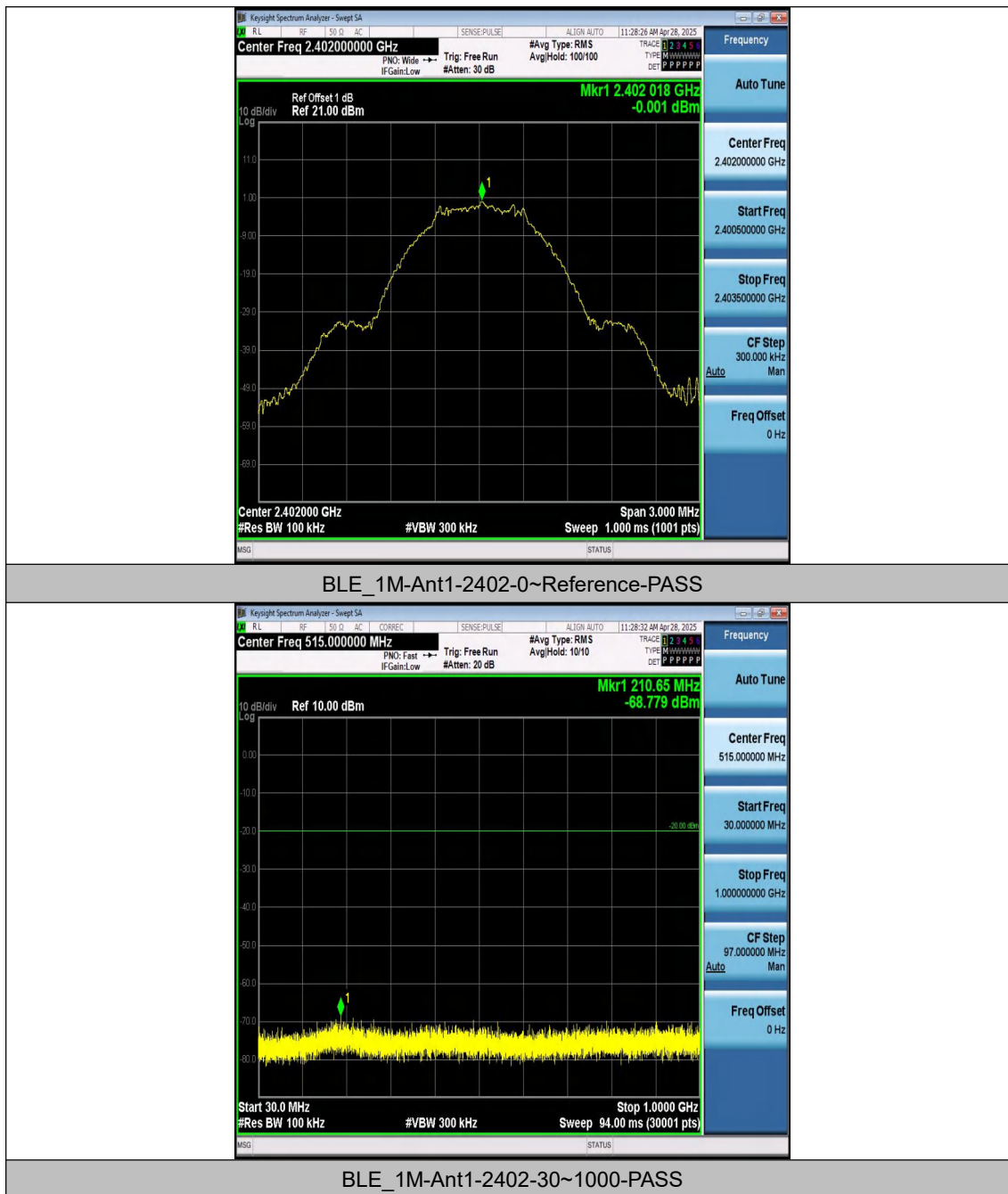
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	0.00	0.00	---	PASS
BLE_1M	Ant1	2402	30~1000	0.00	-68.78	≤-20	PASS
BLE_1M	Ant1	2402	1000~26500	0.00	-45.11	≤-20	PASS
BLE_1M	Ant1	2440	0~Reference	-0.88	-0.88	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.88	-68.17	≤-20.88	PASS
BLE_1M	Ant1	2440	1000~26500	-0.88	-42.76	≤-20.88	PASS
BLE_1M	Ant1	2480	0~Reference	-1.38	-1.38	---	PASS
BLE_1M	Ant1	2480	30~1000	-1.38	-68.71	≤-21.38	PASS
BLE_1M	Ant1	2480	1000~26500	-1.38	-41.85	≤-21.38	PASS
BLE_2M	Ant1	2402	0~Reference	0.14	0.14	---	PASS
BLE_2M	Ant1	2402	30~1000	0.14	-69.25	≤-19.86	PASS
BLE_2M	Ant1	2402	1000~26500	0.14	-40.54	≤-19.86	PASS
BLE_2M	Ant1	2440	0~Reference	-0.99	-0.99	---	PASS
BLE_2M	Ant1	2440	30~1000	-0.99	-69.68	≤-20.99	PASS
BLE_2M	Ant1	2440	1000~26500	-0.99	-44.13	≤-20.99	PASS
BLE_2M	Ant1	2480	0~Reference	-1.53	-1.53	---	PASS
BLE_2M	Ant1	2480	30~1000	-1.53	-67.33	≤-21.53	PASS
BLE_2M	Ant1	2480	1000~26500	-1.53	-41.65	≤-21.53	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.

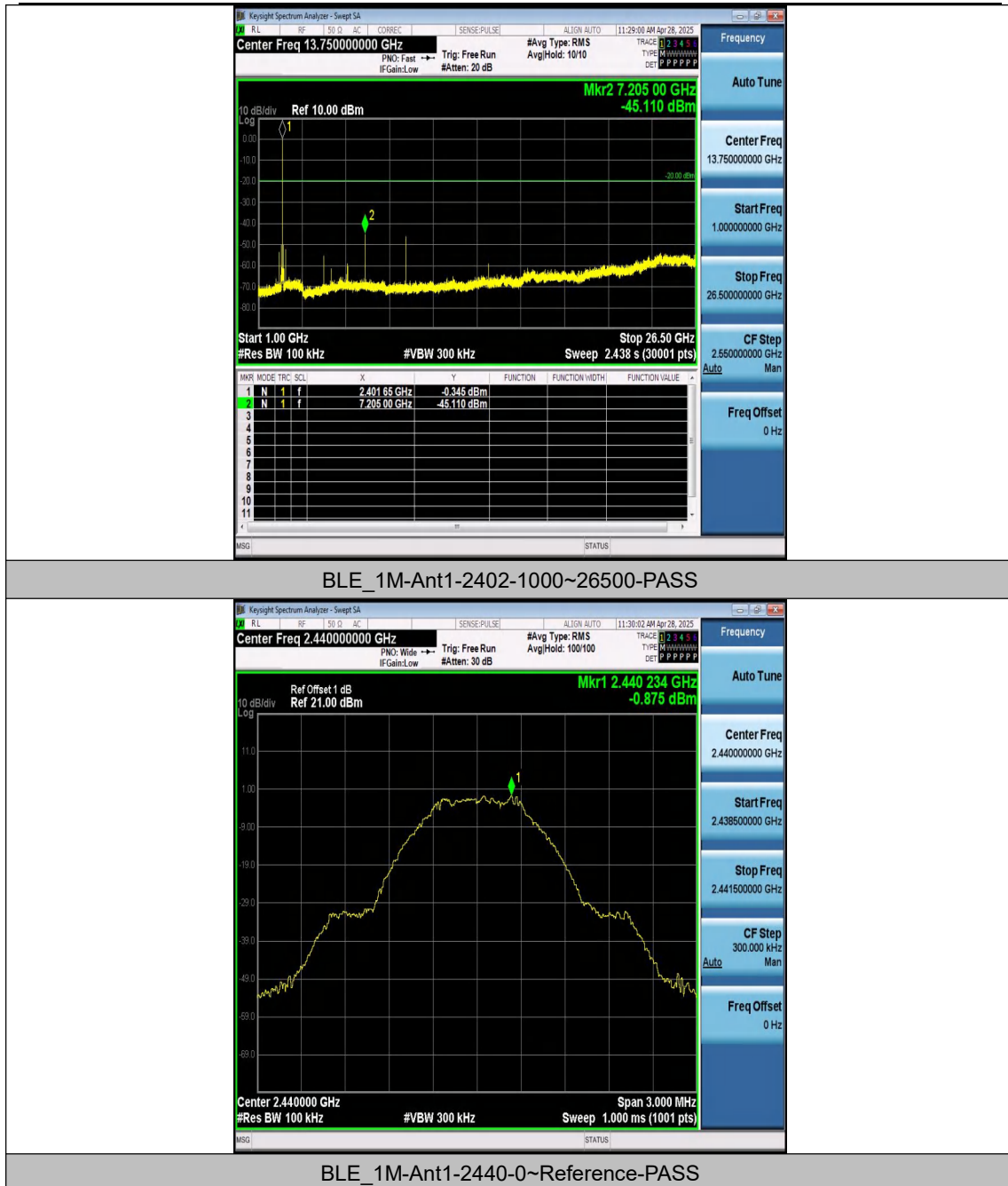
Test Graphs



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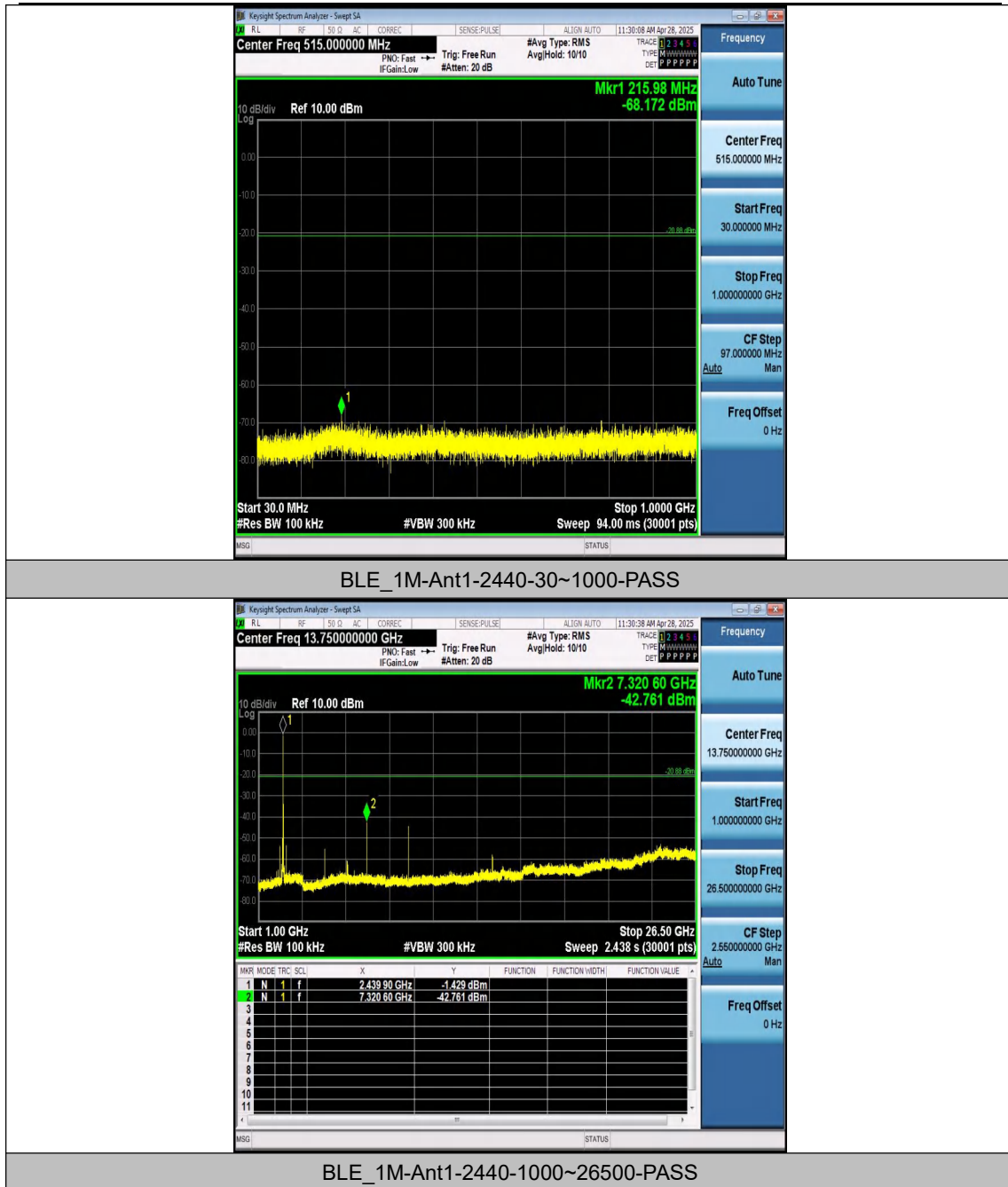
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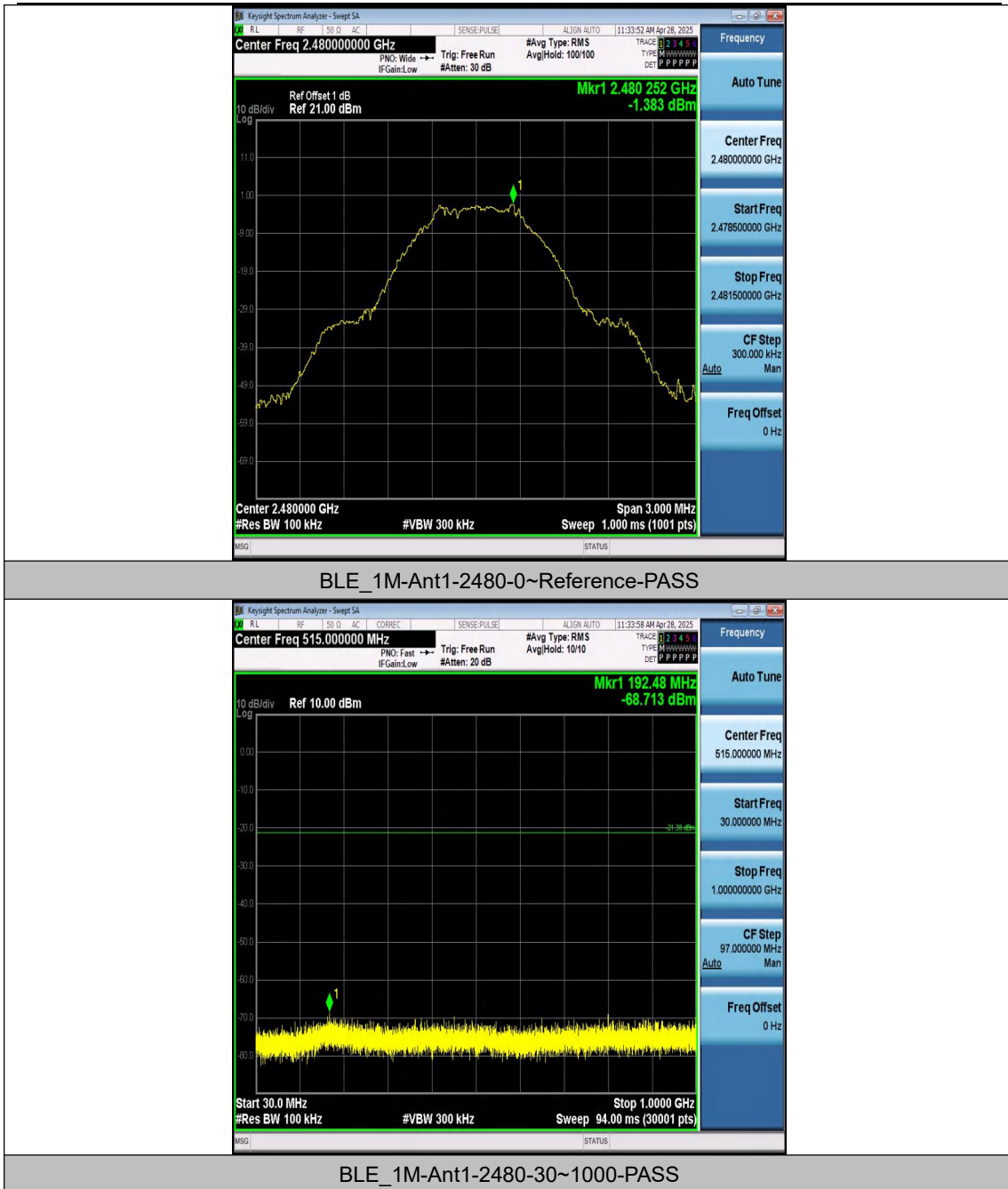


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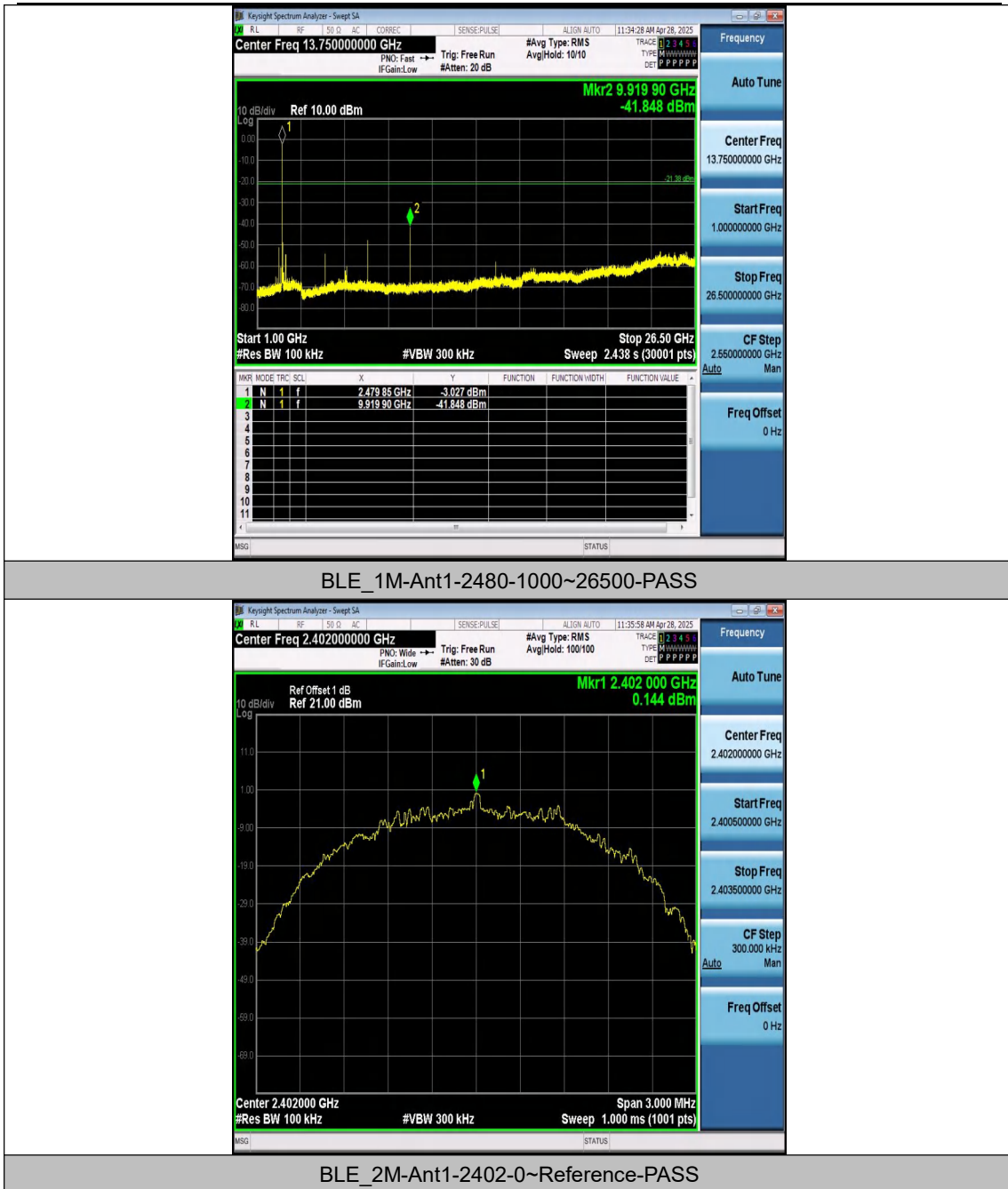




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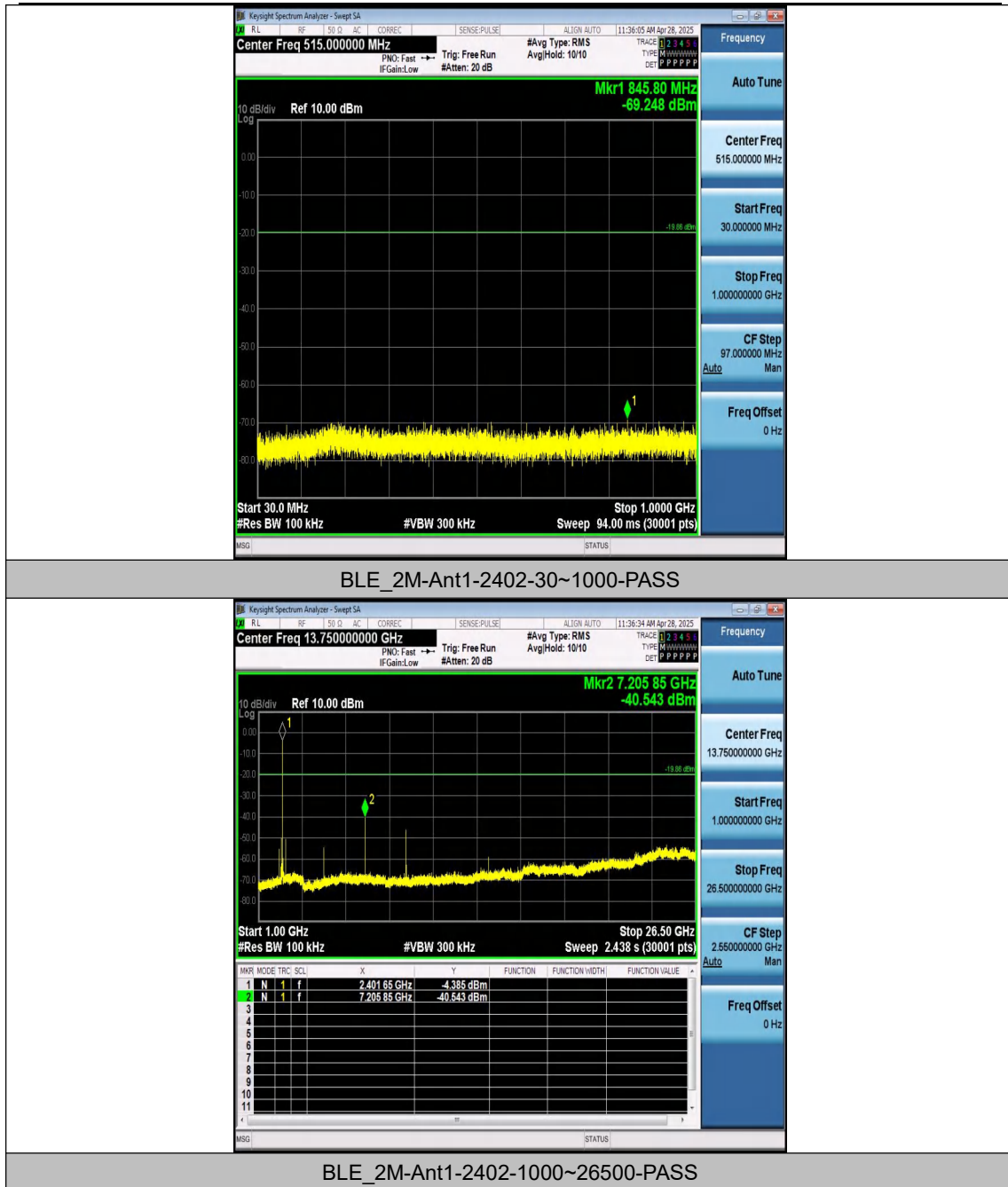
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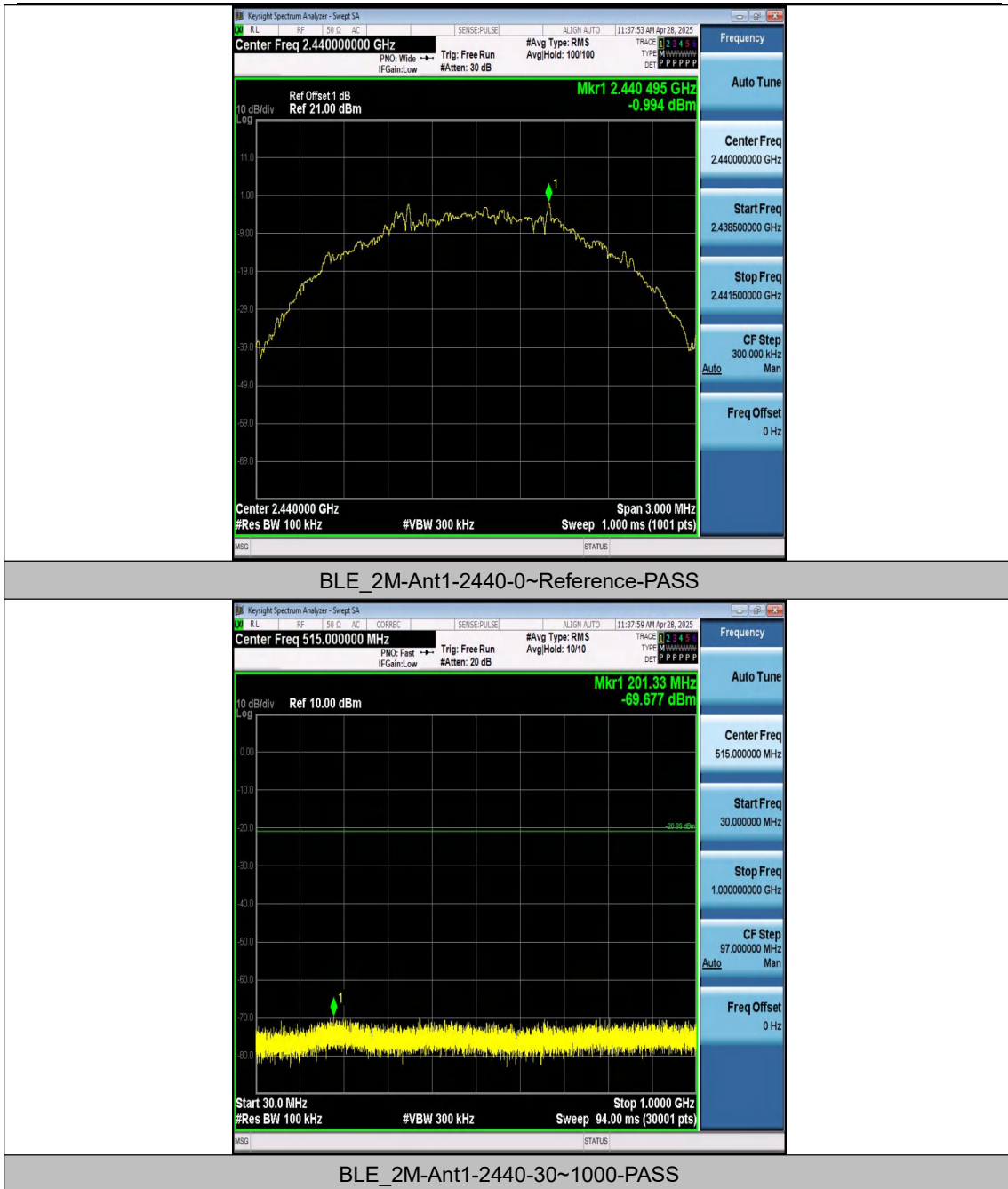


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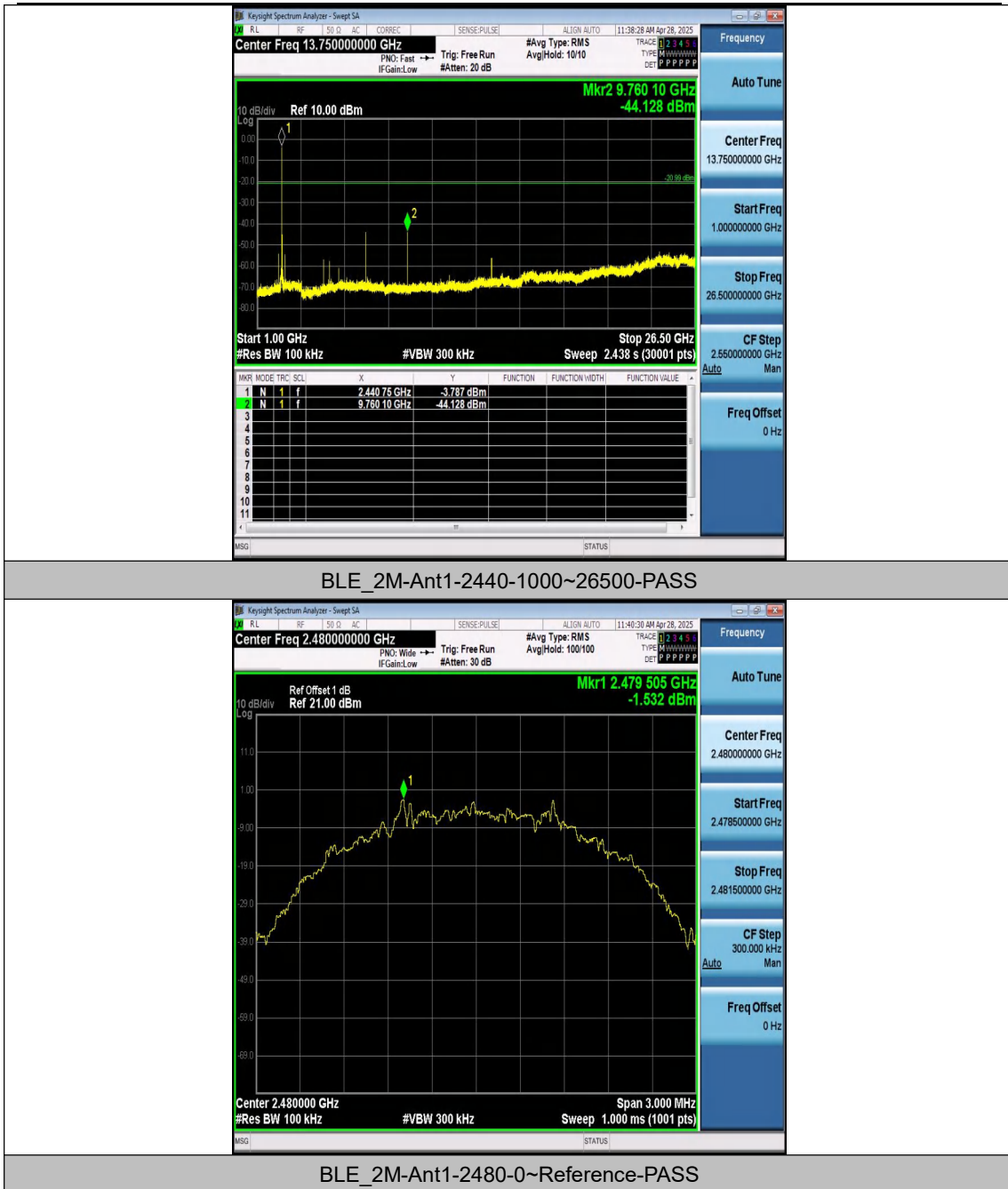


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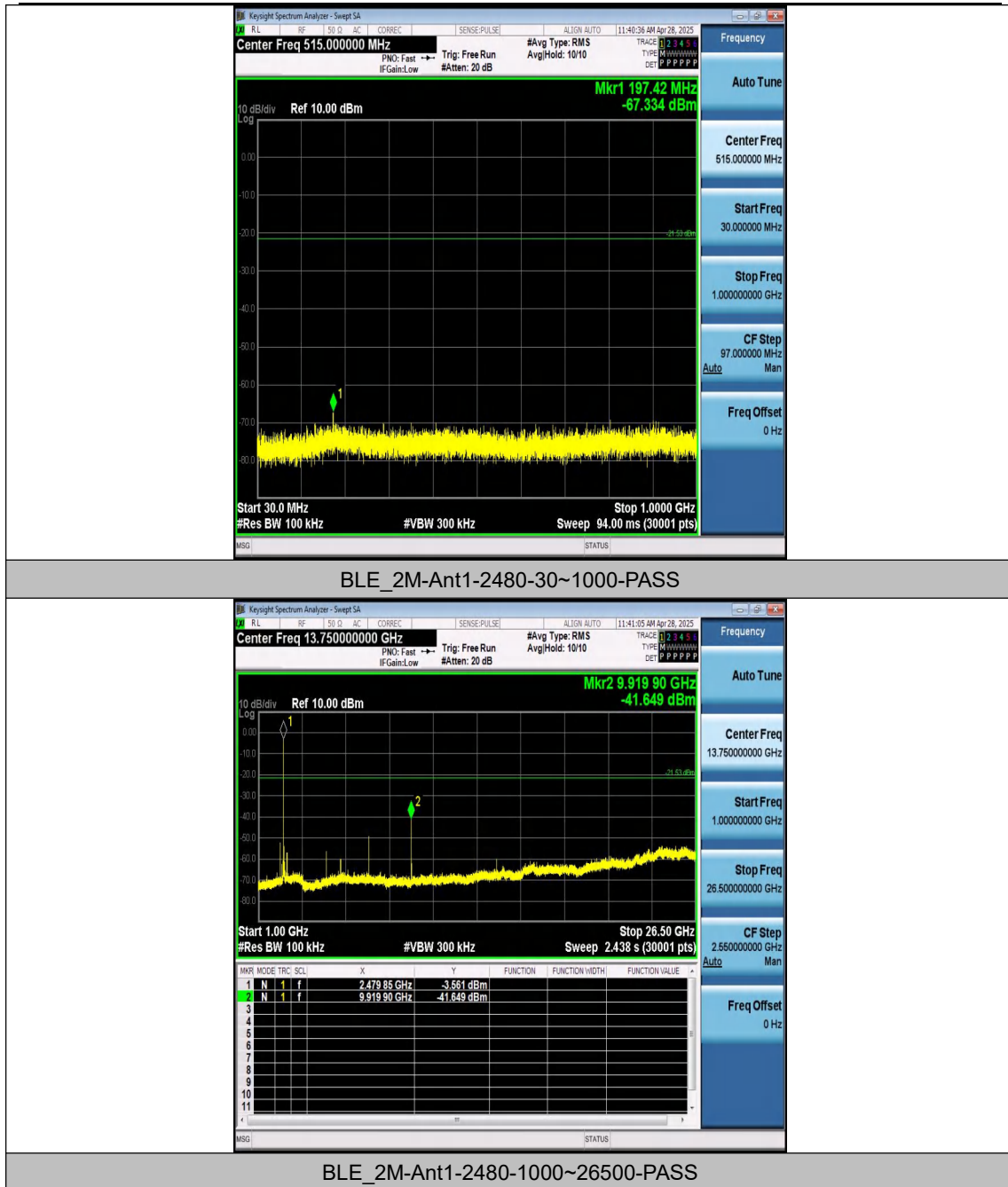


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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	2.50	85.20	0.70
BLE_1M	Ant1	2440	2.13	2.51	84.86	0.71
BLE_1M	Ant1	2480	2.13	2.51	84.86	0.71
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

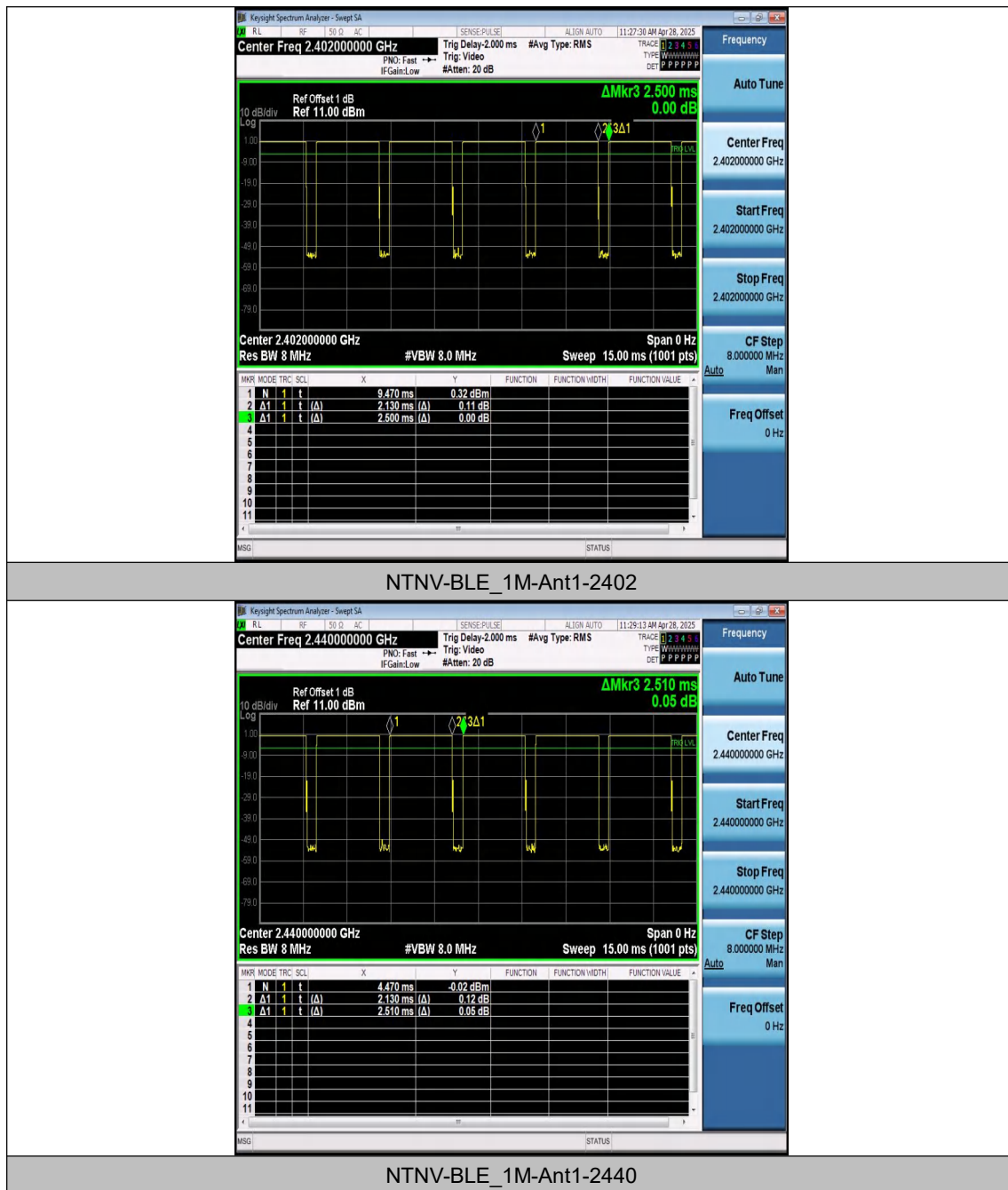
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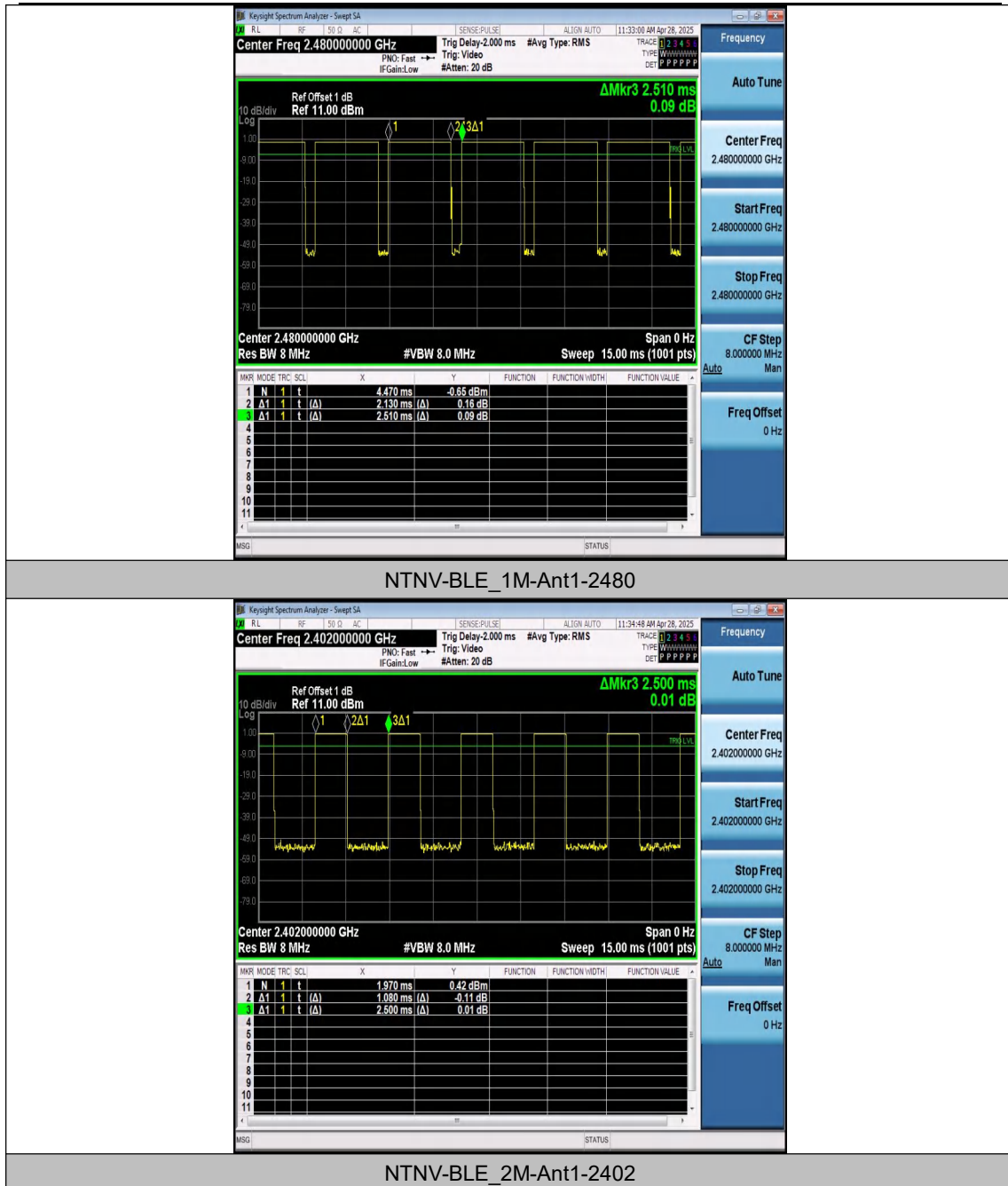
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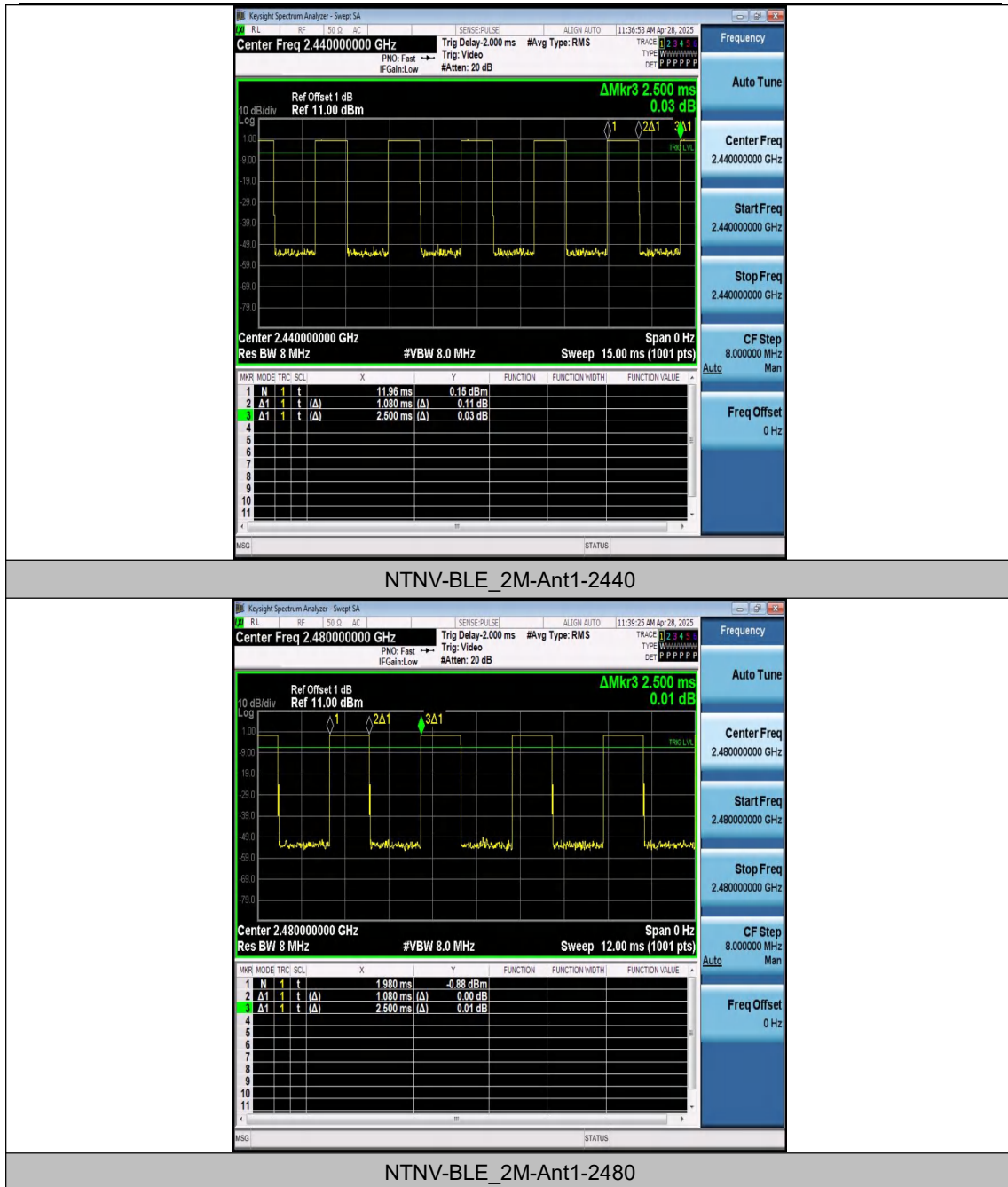


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Test Graphs







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