

Appendix Test Data

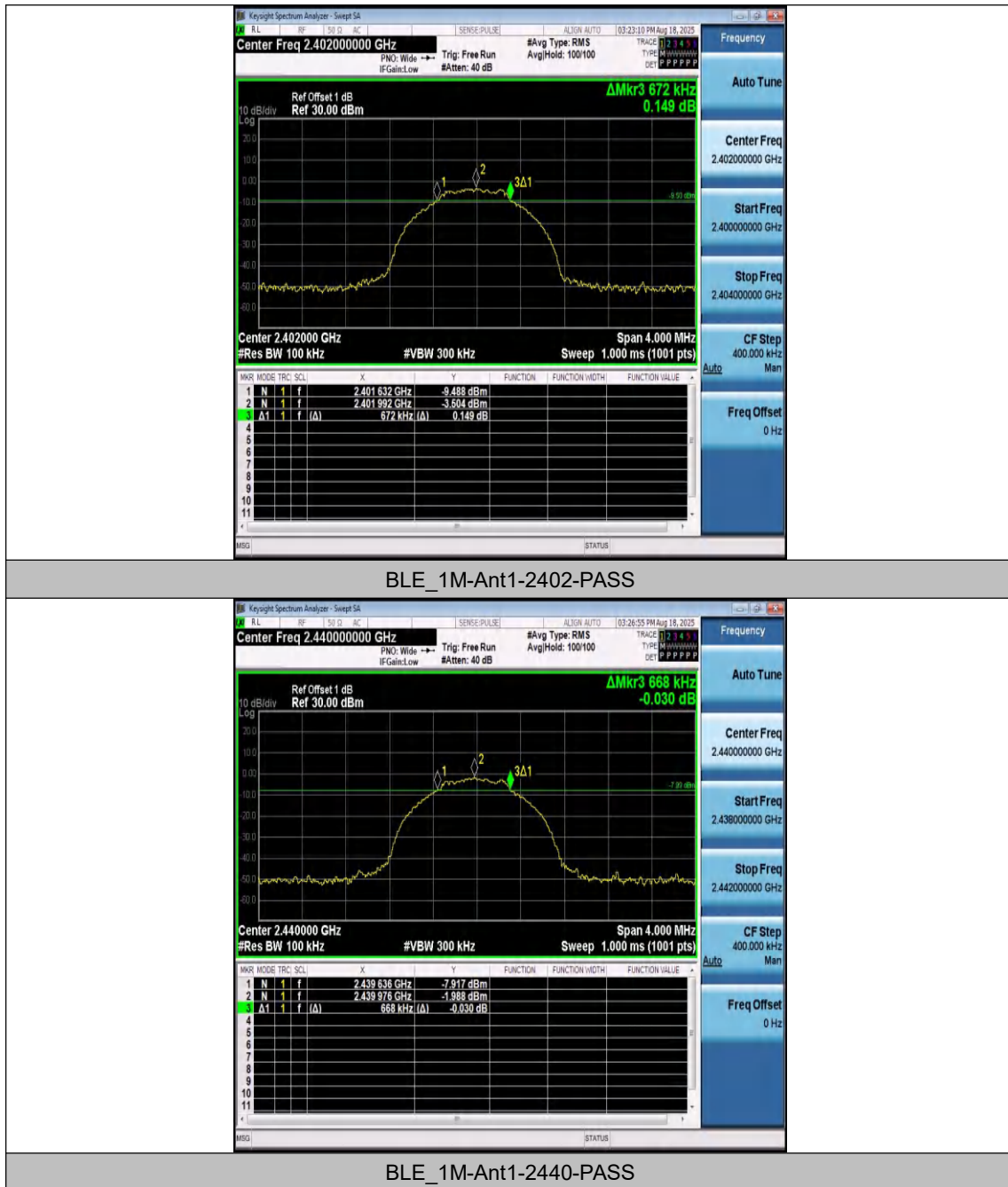
Report No.:	1812C50401912501	Test Sample No.:	1-2-2
Start Test Date:	2025-08-18	Finish Test Date:	2025-08-18
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	26.3°C	Relative Humidity:	55%
Pressure:	101kPa		

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	2401.632	2402.304	0.5	PASS
BLE_1M	Ant1	2440	0.668	2439.636	2440.304	0.5	PASS
BLE_1M	Ant1	2480	0.640	2479.660	2480.300	0.5	PASS
BLE_2M	Ant1	2402	1.336	2401.308	2402.644	0.5	PASS
BLE_2M	Ant1	2440	1.344	2439.300	2440.644	0.5	PASS
BLE_2M	Ant1	2480	1.344	2479.296	2480.640	0.5	PASS

Test Graphs





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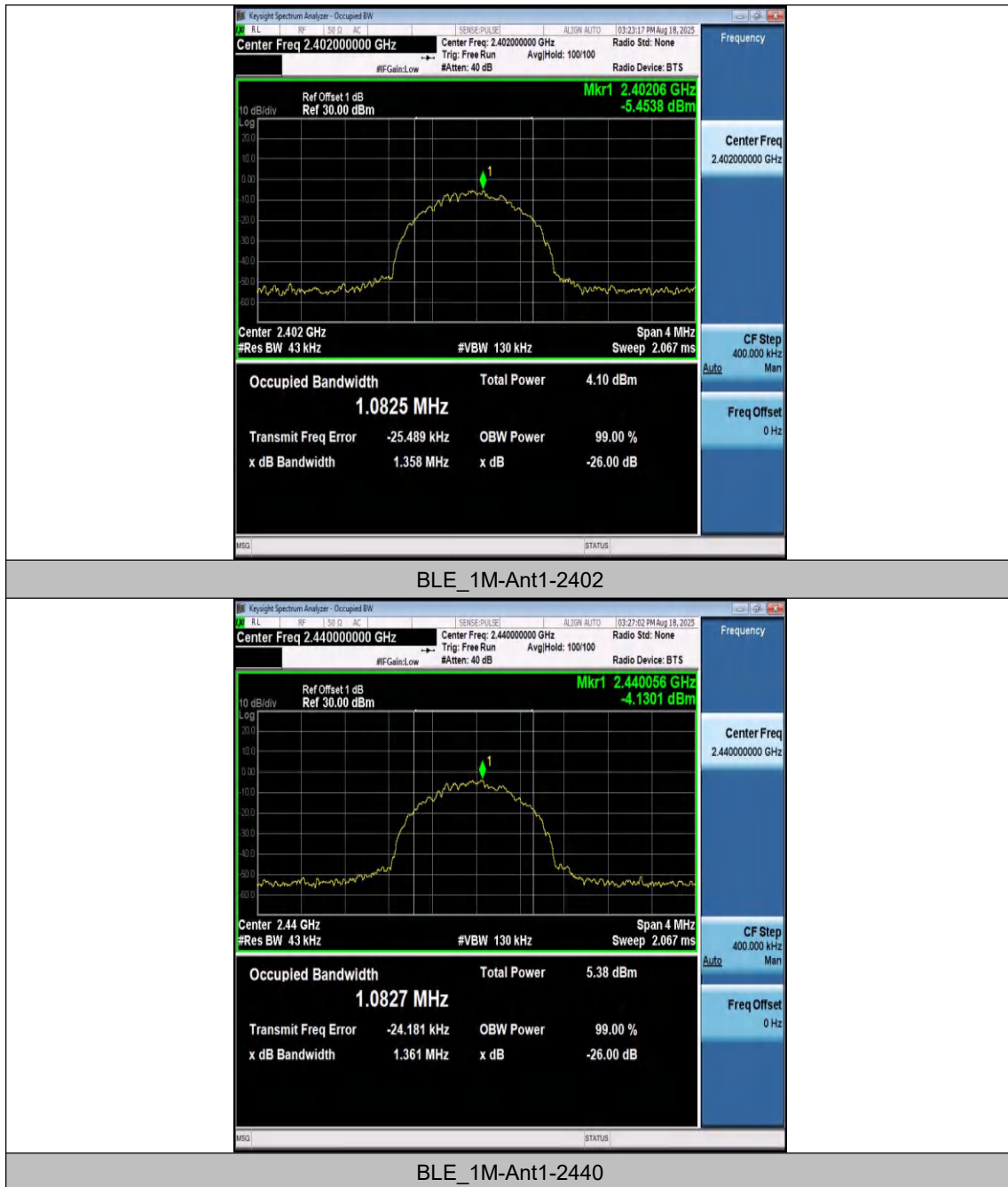
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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0825	2401.4333	2402.5158	---	---
BLE_1M	Ant1	2440	1.0827	2439.4345	2440.5172	---	---
BLE_1M	Ant1	2480	1.0826	2479.4338	2480.5164	---	---
BLE_2M	Ant1	2402	2.1386	2400.9176	2403.0562	---	---
BLE_2M	Ant1	2440	2.1303	2438.9213	2441.0516	---	---
BLE_2M	Ant1	2480	2.1330	2478.9192	2481.0522	---	---

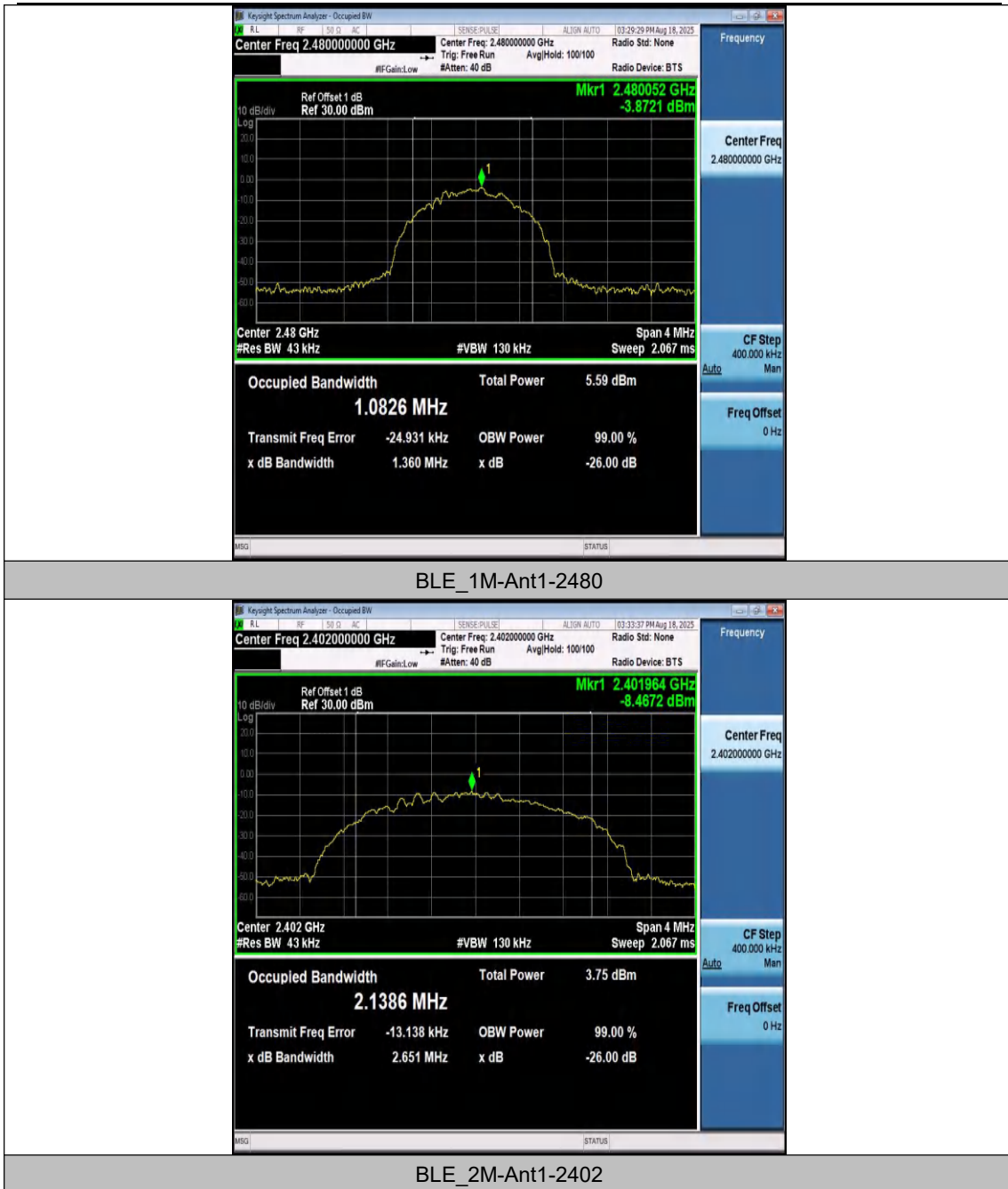
Test Graphs



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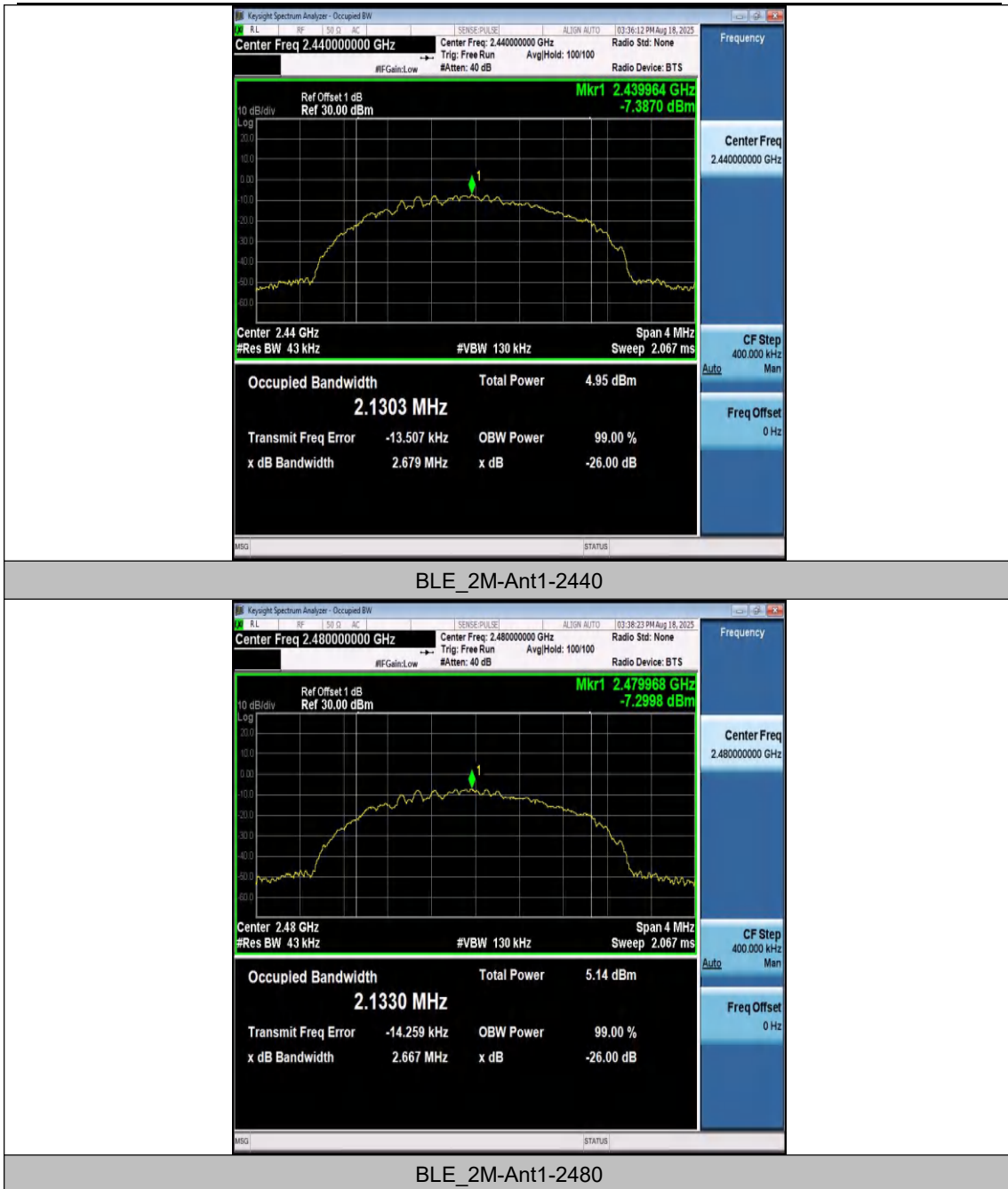
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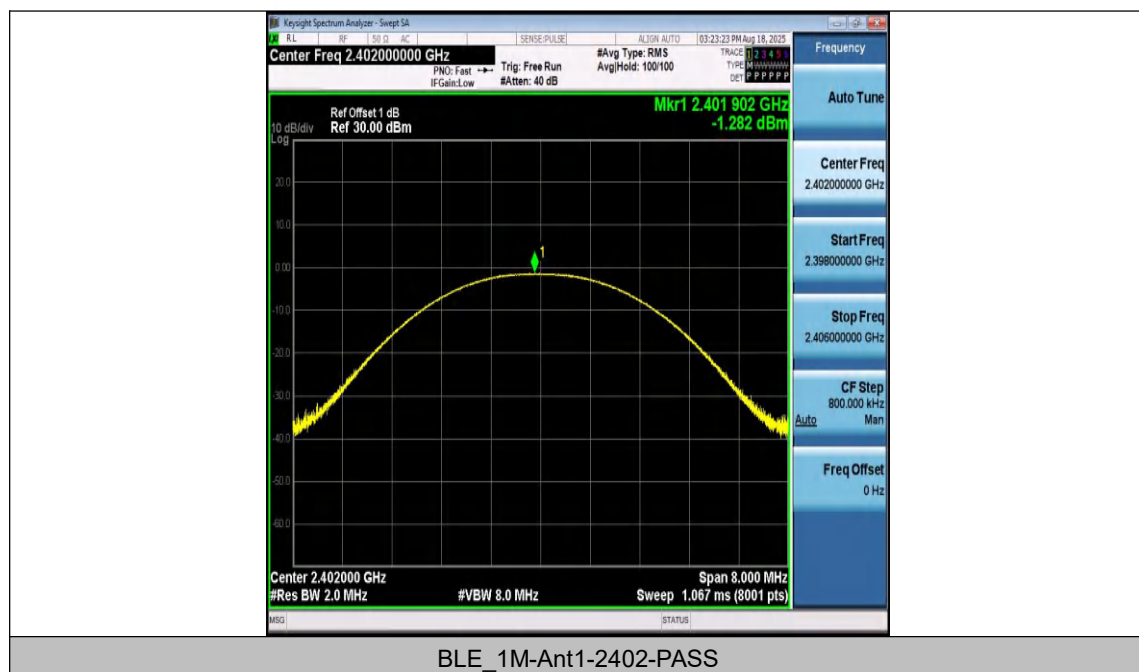
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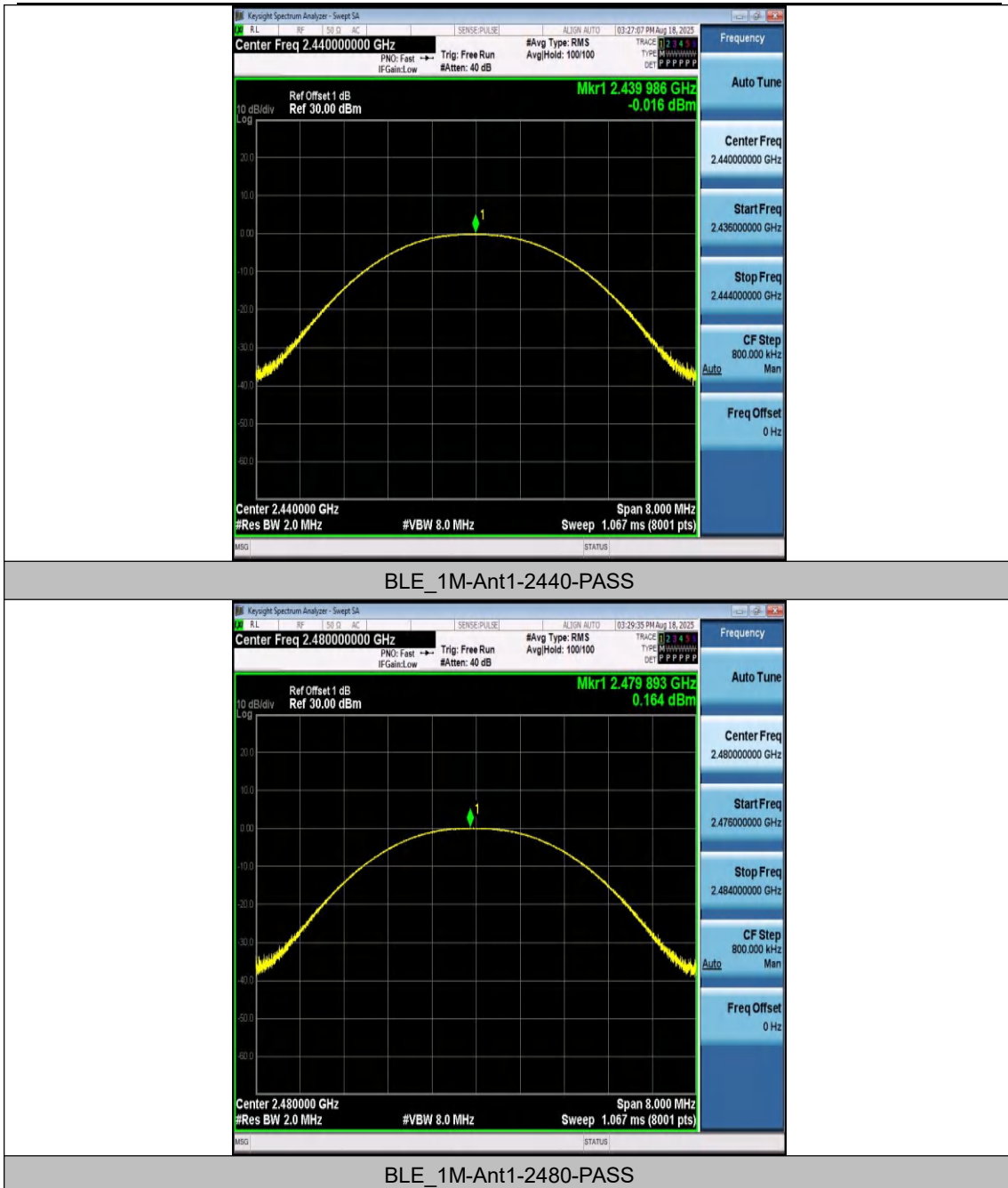
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.28	≤30	PASS
BLE_1M	Ant1	2440	-0.02	≤30	PASS
BLE_1M	Ant1	2480	0.16	≤30	PASS
BLE_2M	Ant1	2402	-1.69	≤30	PASS
BLE_2M	Ant1	2440	-0.45	≤30	PASS
BLE_2M	Ant1	2480	-0.27	≤30	PASS

Test Graphs Peak

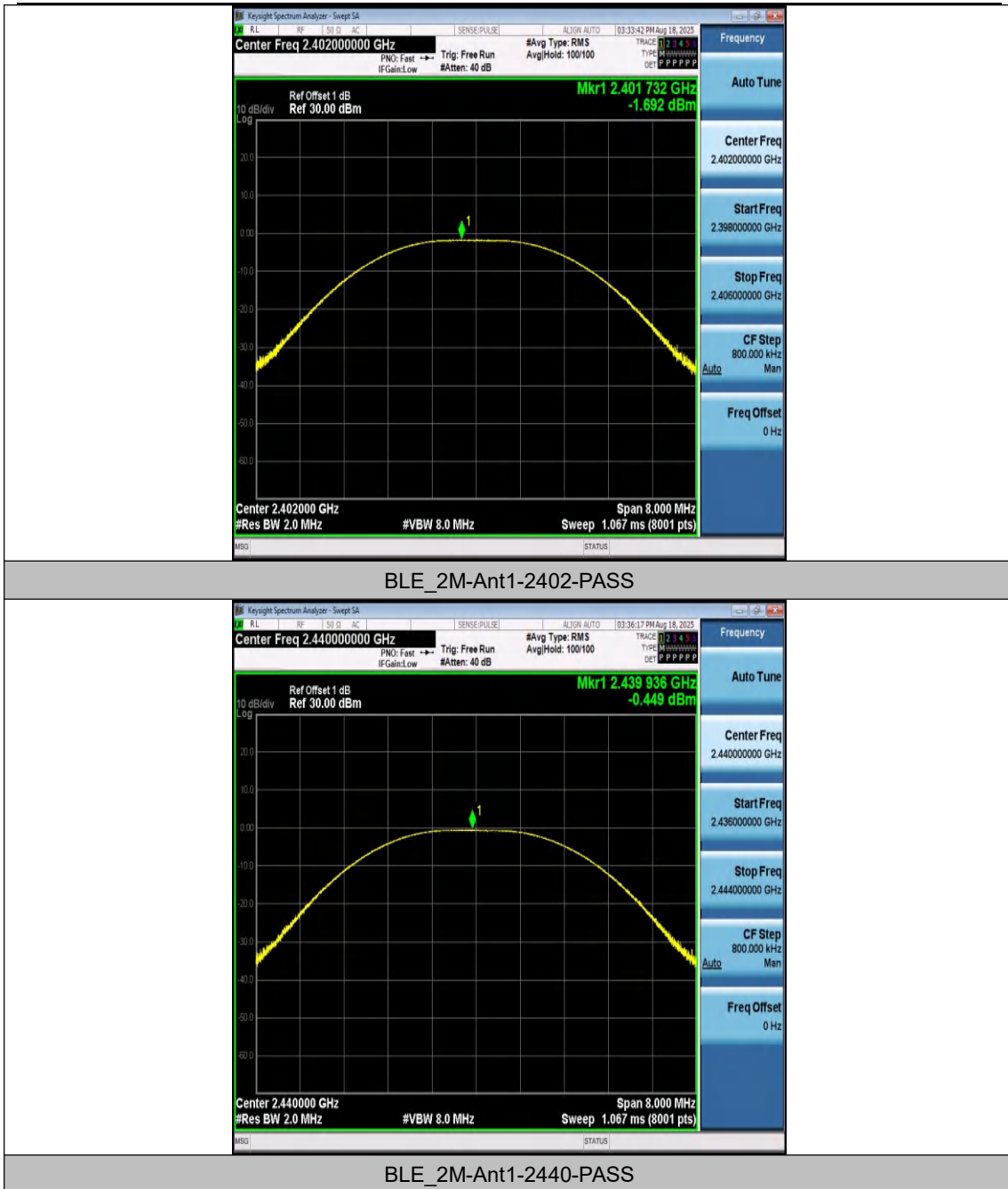




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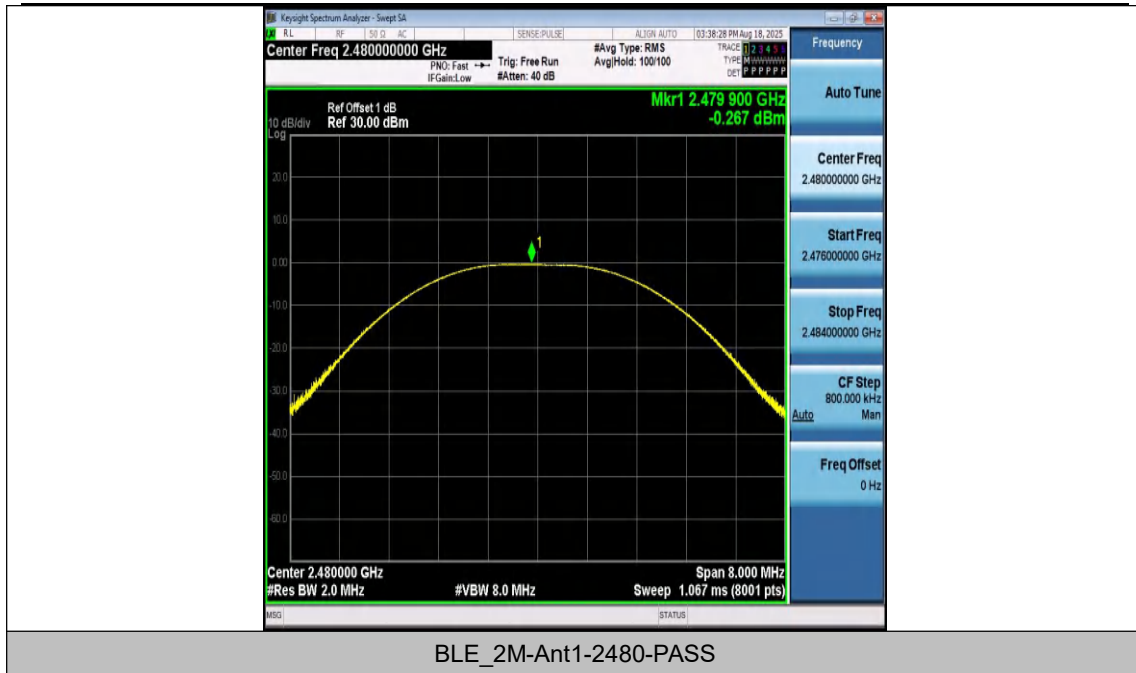
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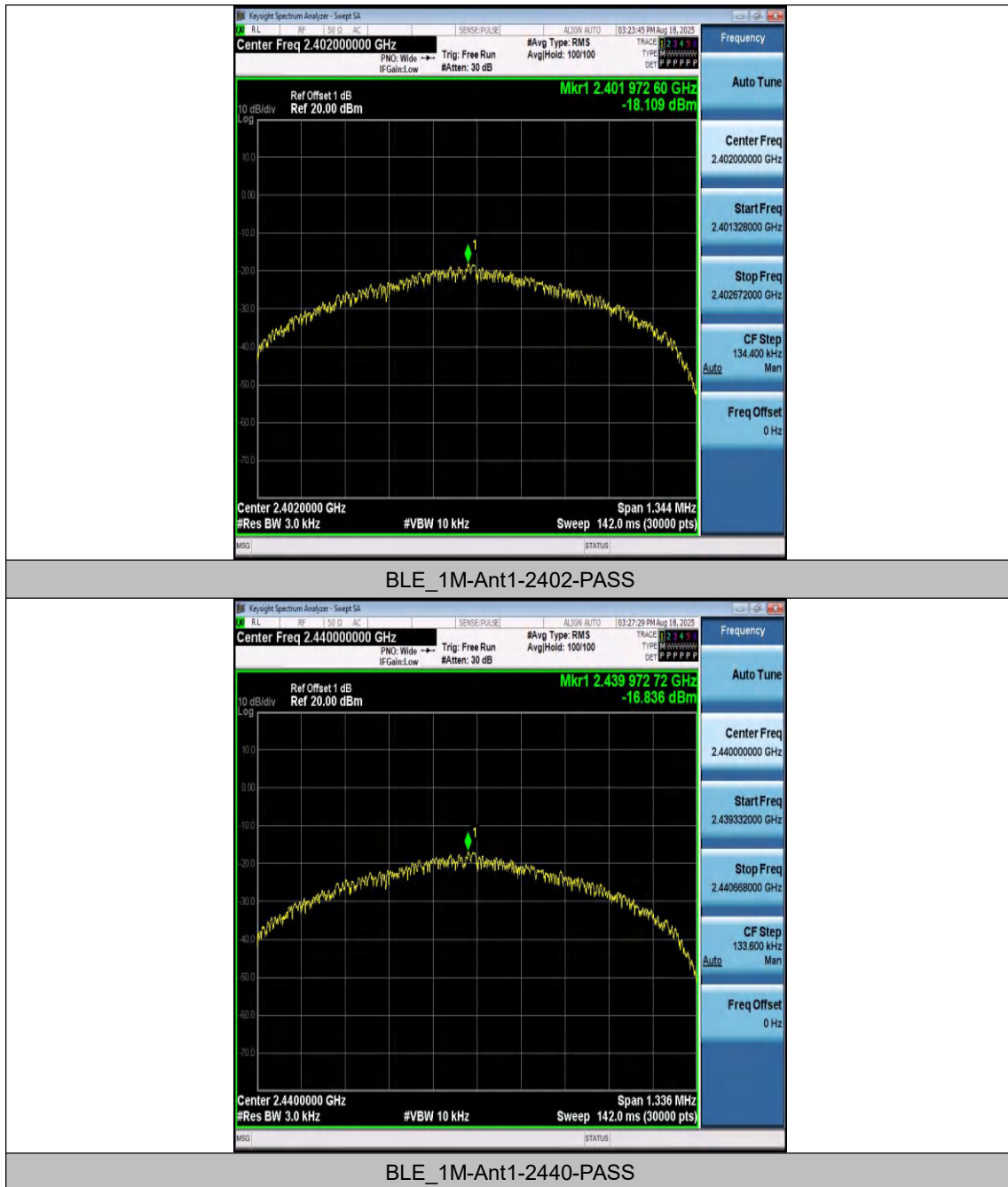
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.11	≤8.00	PASS
BLE_1M	Ant1	2440	-16.84	≤8.00	PASS
BLE_1M	Ant1	2480	-16.58	≤8.00	PASS
BLE_2M	Ant1	2402	-22.88	≤8.00	PASS
BLE_2M	Ant1	2440	-21.99	≤8.00	PASS
BLE_2M	Ant1	2480	-21.40	≤8.00	PASS

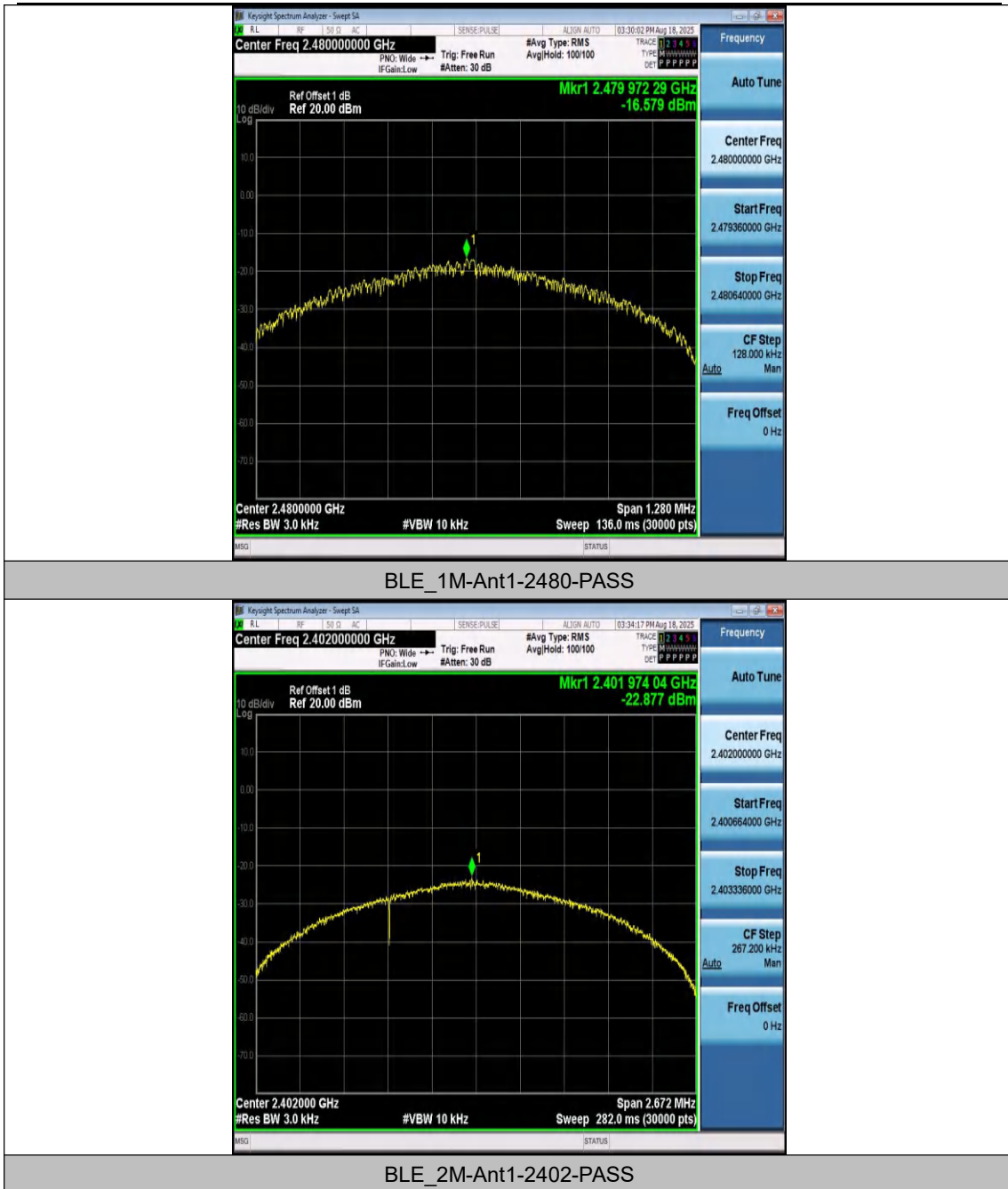
Test Graphs



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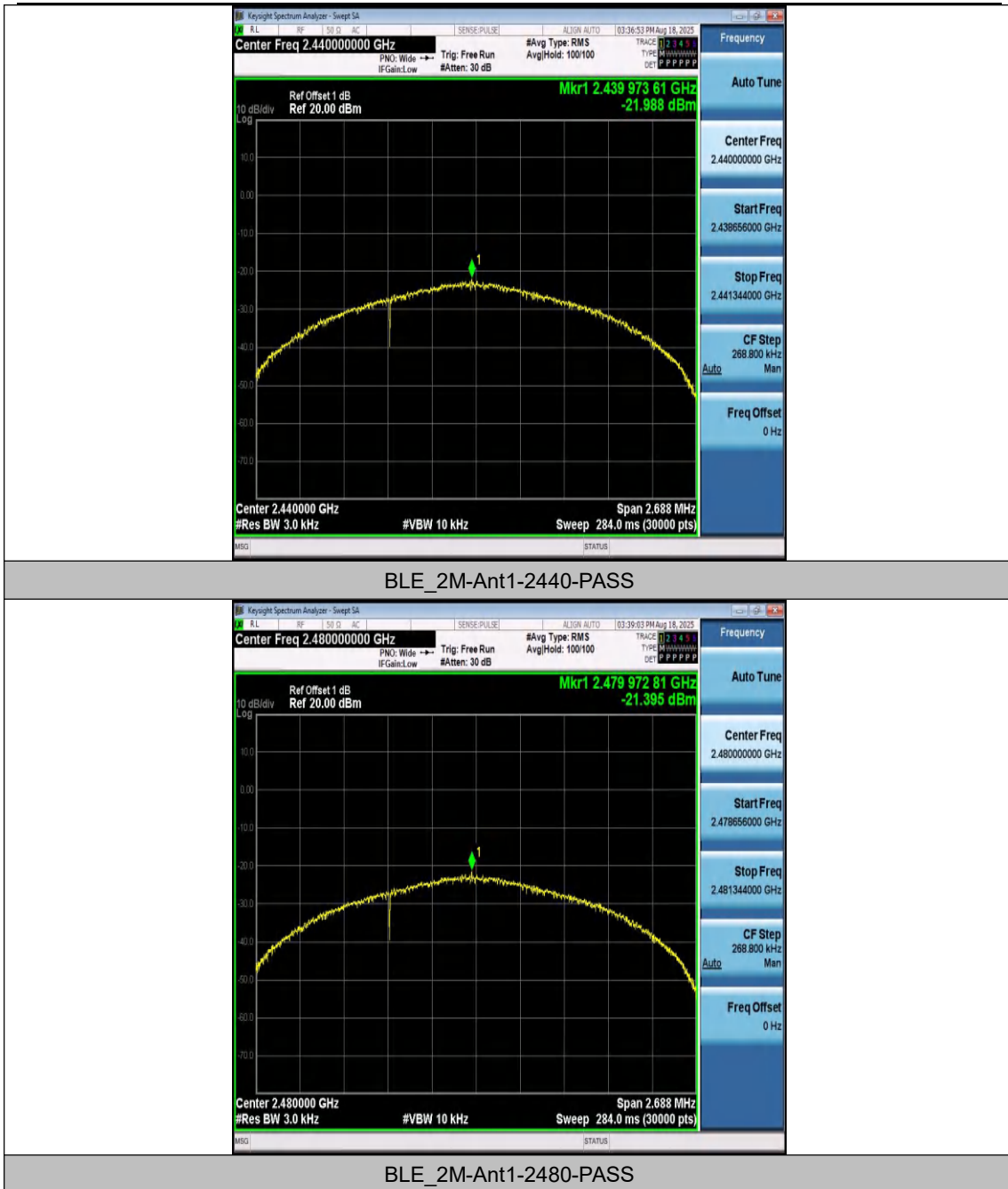
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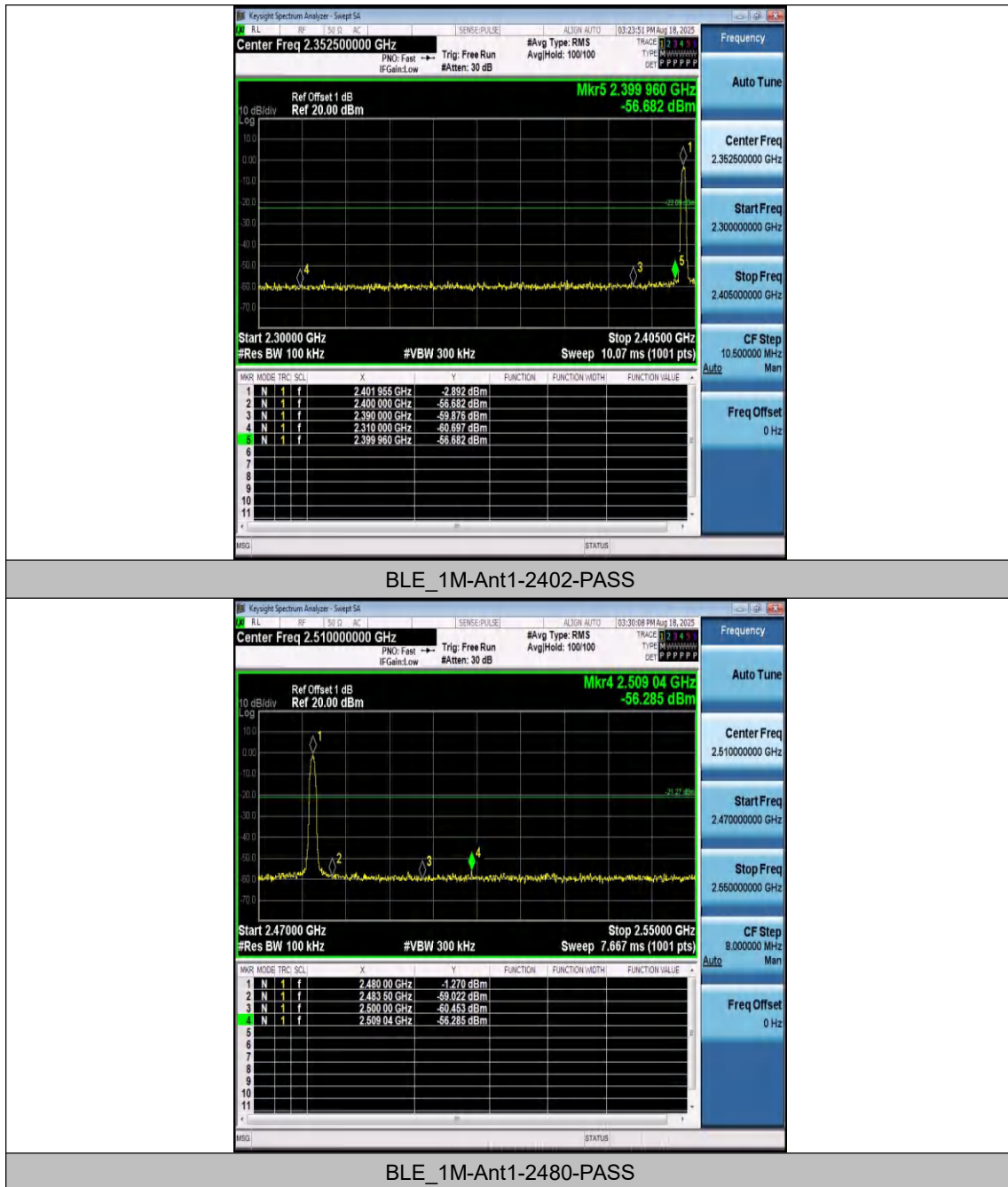
Appendix E: Band edge measurements

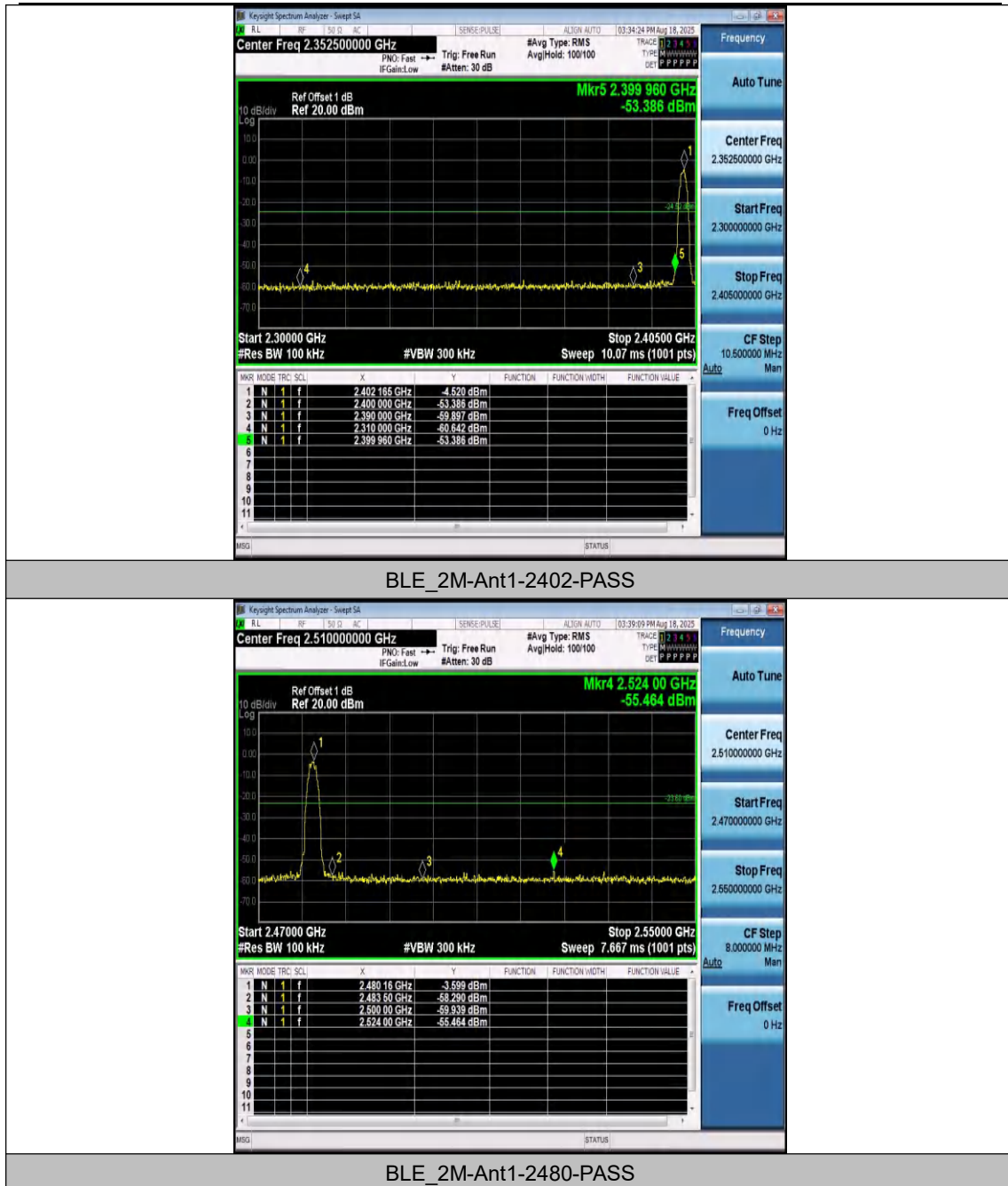
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.89	-56.68	≤-22.89	PASS
BLE_1M	Ant1	High	2480	-1.27	-56.29	≤-21.27	PASS
BLE_2M	Ant1	Low	2402	-4.52	-53.39	≤-24.52	PASS
BLE_2M	Ant1	High	2480	-3.60	-55.46	≤-23.6	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





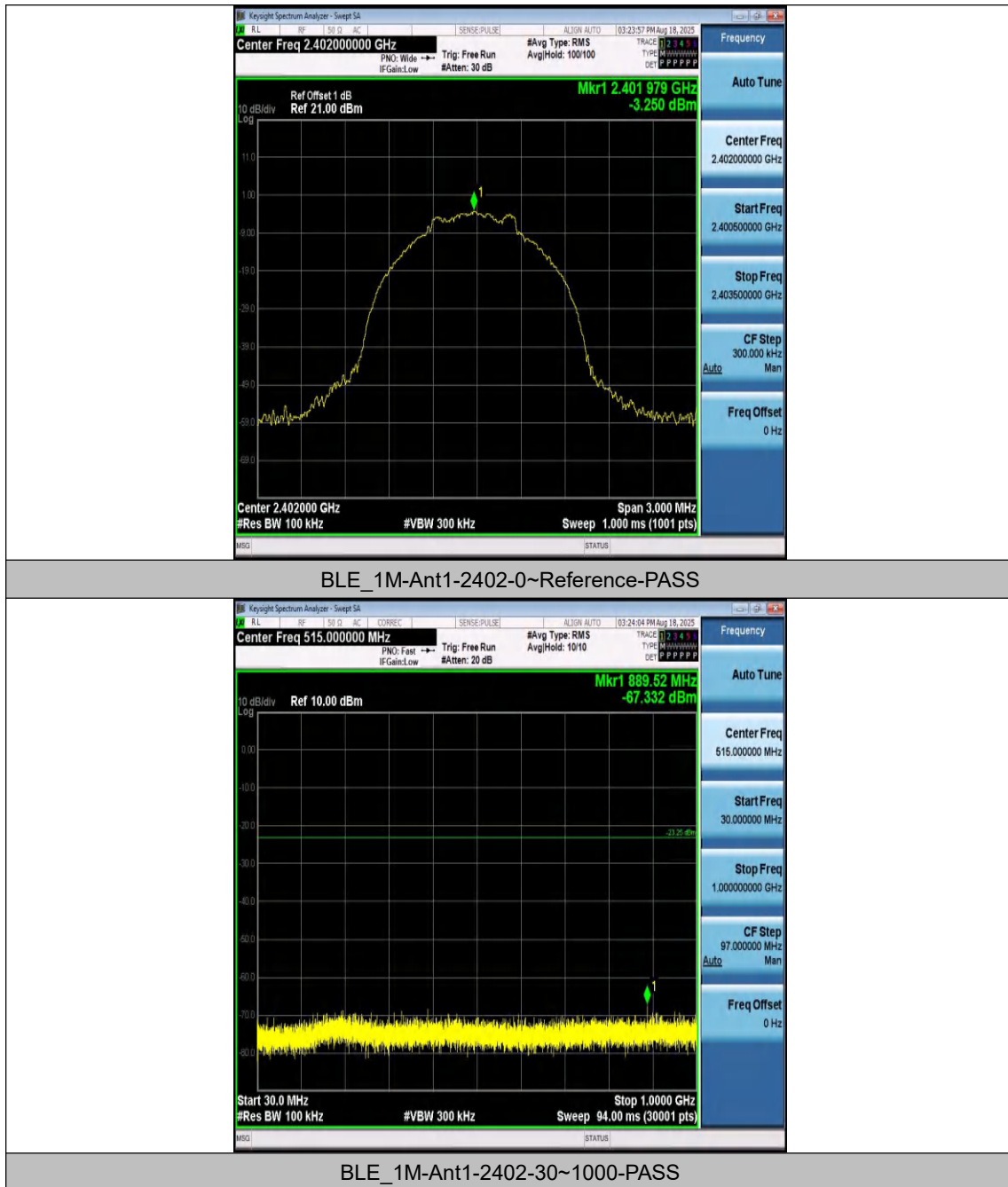
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-3.25	-3.25	---	PASS
BLE_1M	Ant1	2402	30~1000	-3.25	-67.33	≤-23.25	PASS
BLE_1M	Ant1	2402	1000~26500	-3.25	-53.61	≤-23.25	PASS
BLE_1M	Ant1	2440	0~Reference	-2.02	-2.02	---	PASS
BLE_1M	Ant1	2440	30~1000	-2.02	-68.69	≤-22.02	PASS
BLE_1M	Ant1	2440	1000~26500	-2.02	-53.51	≤-22.02	PASS
BLE_1M	Ant1	2480	0~Reference	-1.77	-1.77	---	PASS
BLE_1M	Ant1	2480	30~1000	-1.77	-68.22	≤-21.77	PASS
BLE_1M	Ant1	2480	1000~26500	-1.77	-53.41	≤-21.77	PASS
BLE_2M	Ant1	2402	0~Reference	-5.18	-5.18	---	PASS
BLE_2M	Ant1	2402	30~1000	-5.18	-68.34	≤-25.18	PASS
BLE_2M	Ant1	2402	1000~26500	-5.18	-52.12	≤-25.18	PASS
BLE_2M	Ant1	2440	0~Reference	-3.98	-3.98	---	PASS
BLE_2M	Ant1	2440	30~1000	-3.98	-68.7	≤-23.98	PASS
BLE_2M	Ant1	2440	1000~26500	-3.98	-53.72	≤-23.98	PASS
BLE_2M	Ant1	2480	0~Reference	-3.70	-3.70	---	PASS
BLE_2M	Ant1	2480	30~1000	-3.70	-68.56	≤-23.7	PASS
BLE_2M	Ant1	2480	1000~26500	-3.70	-52.24	≤-23.7	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.

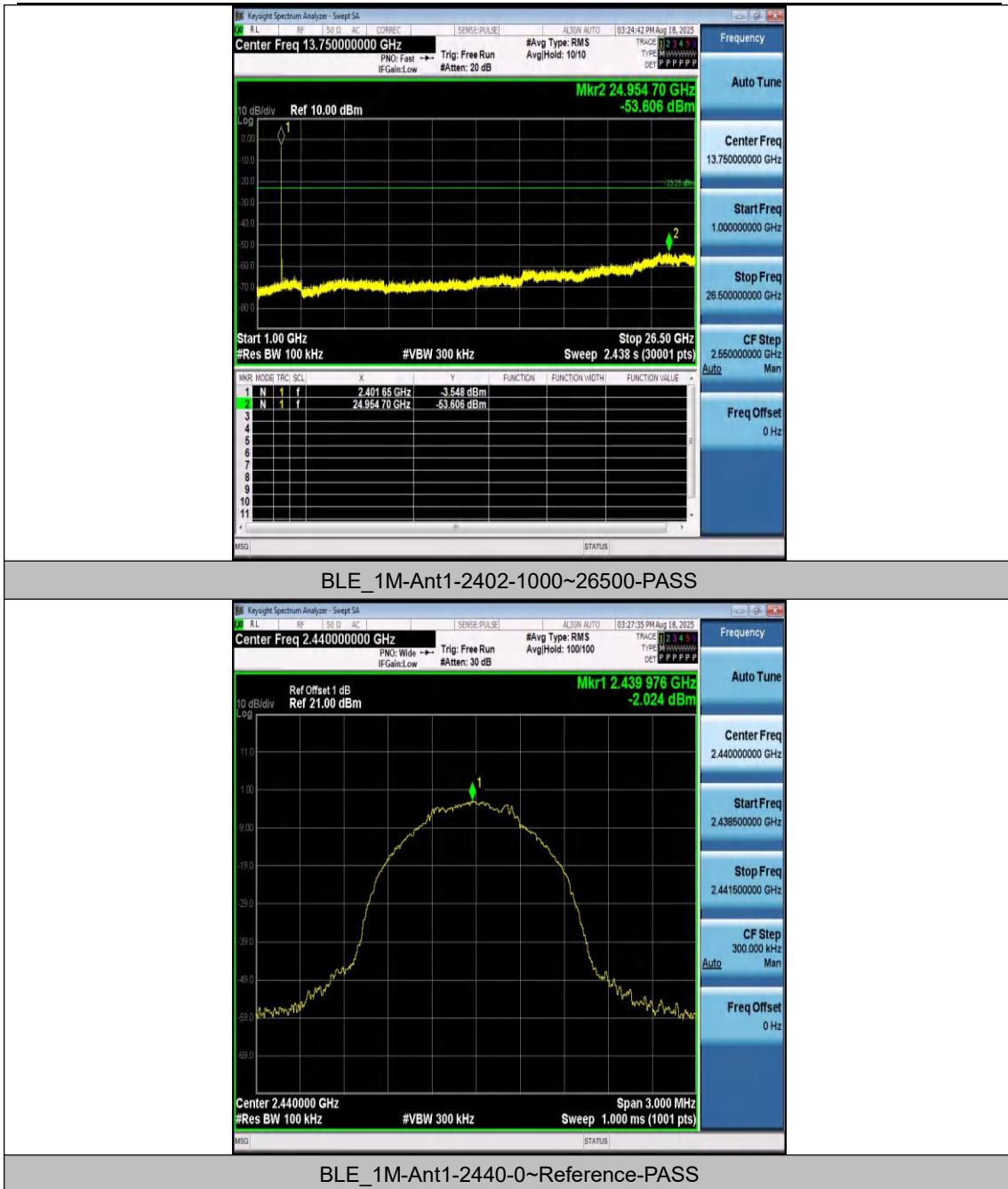
Test Graphs



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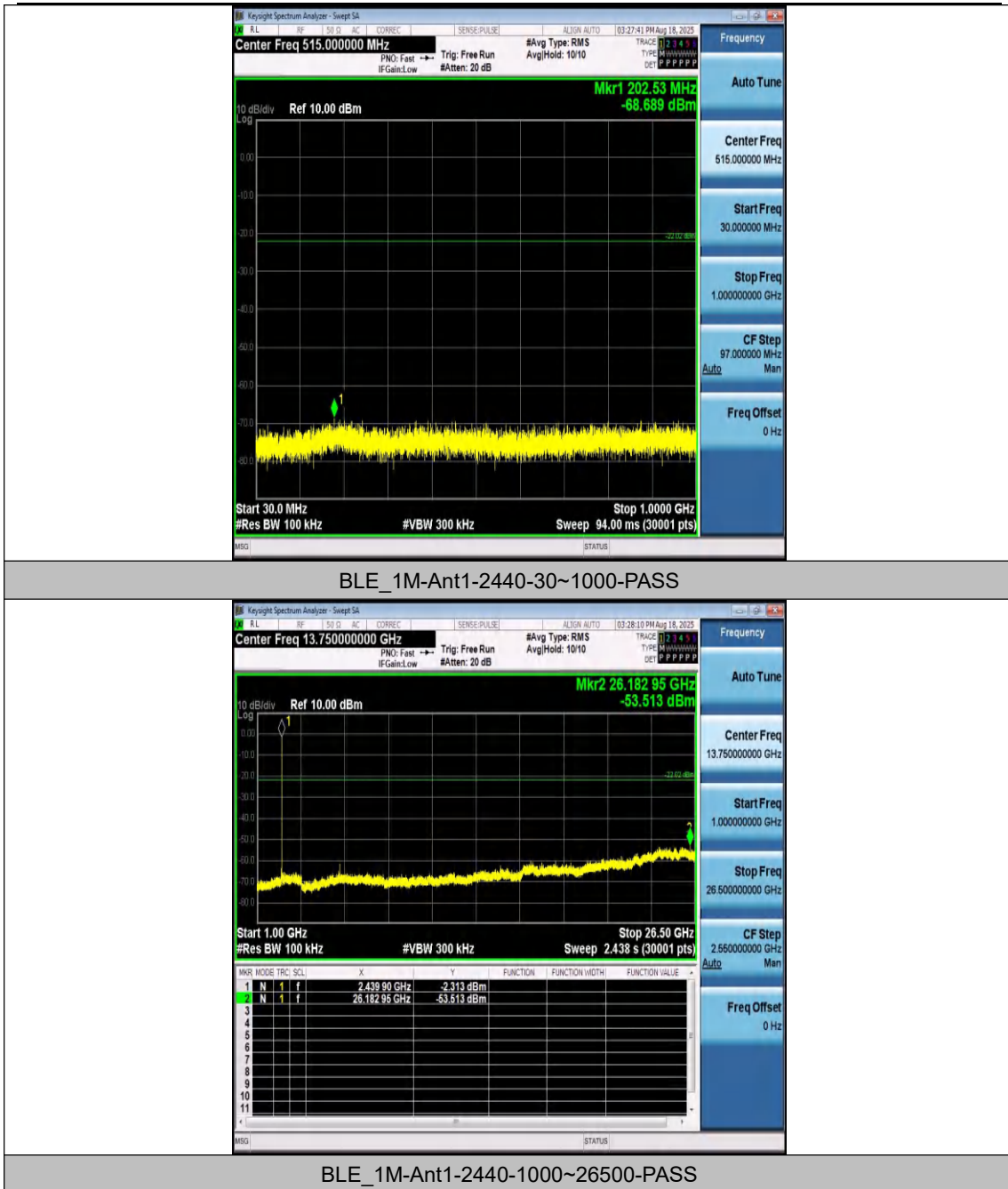
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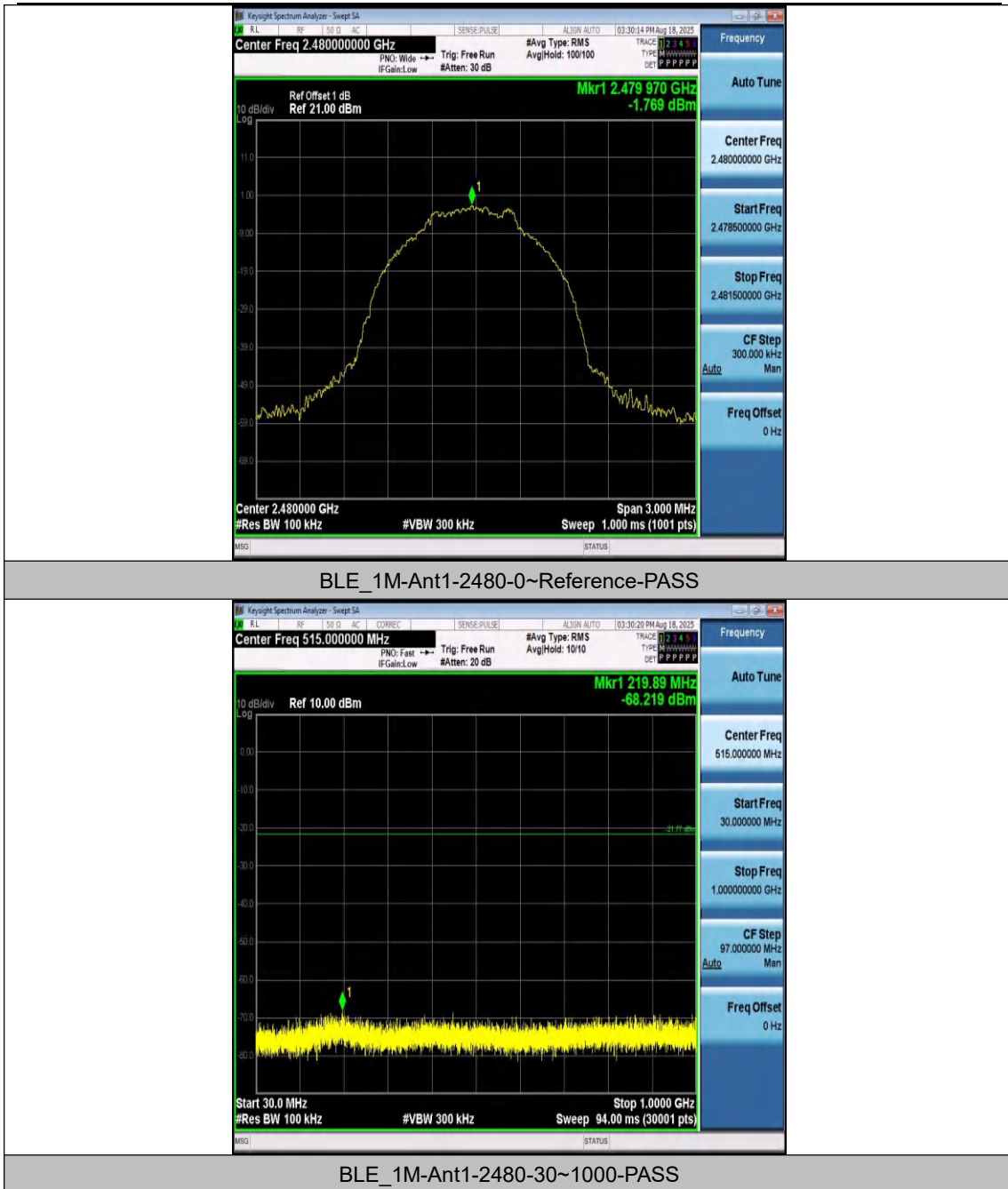
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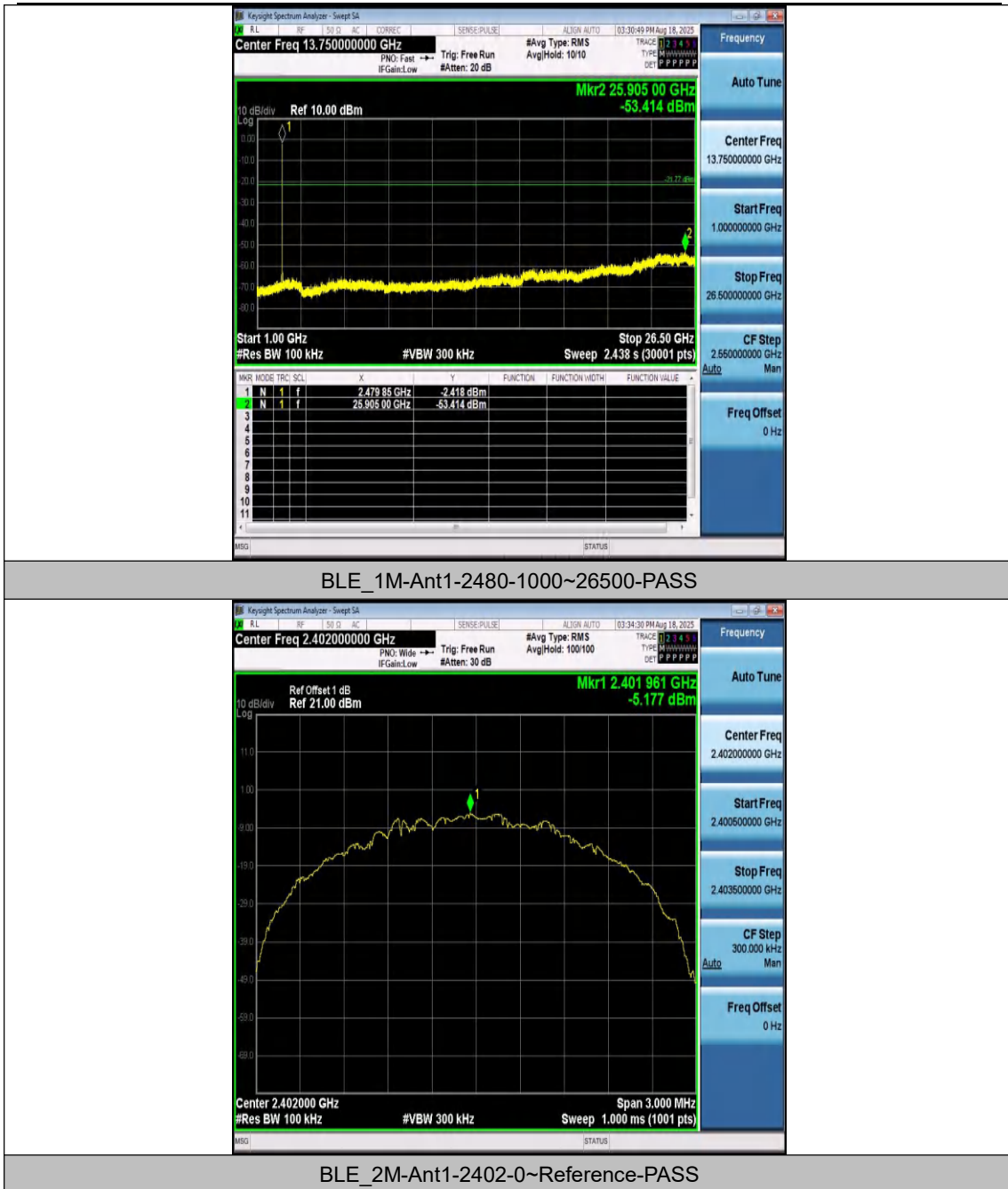
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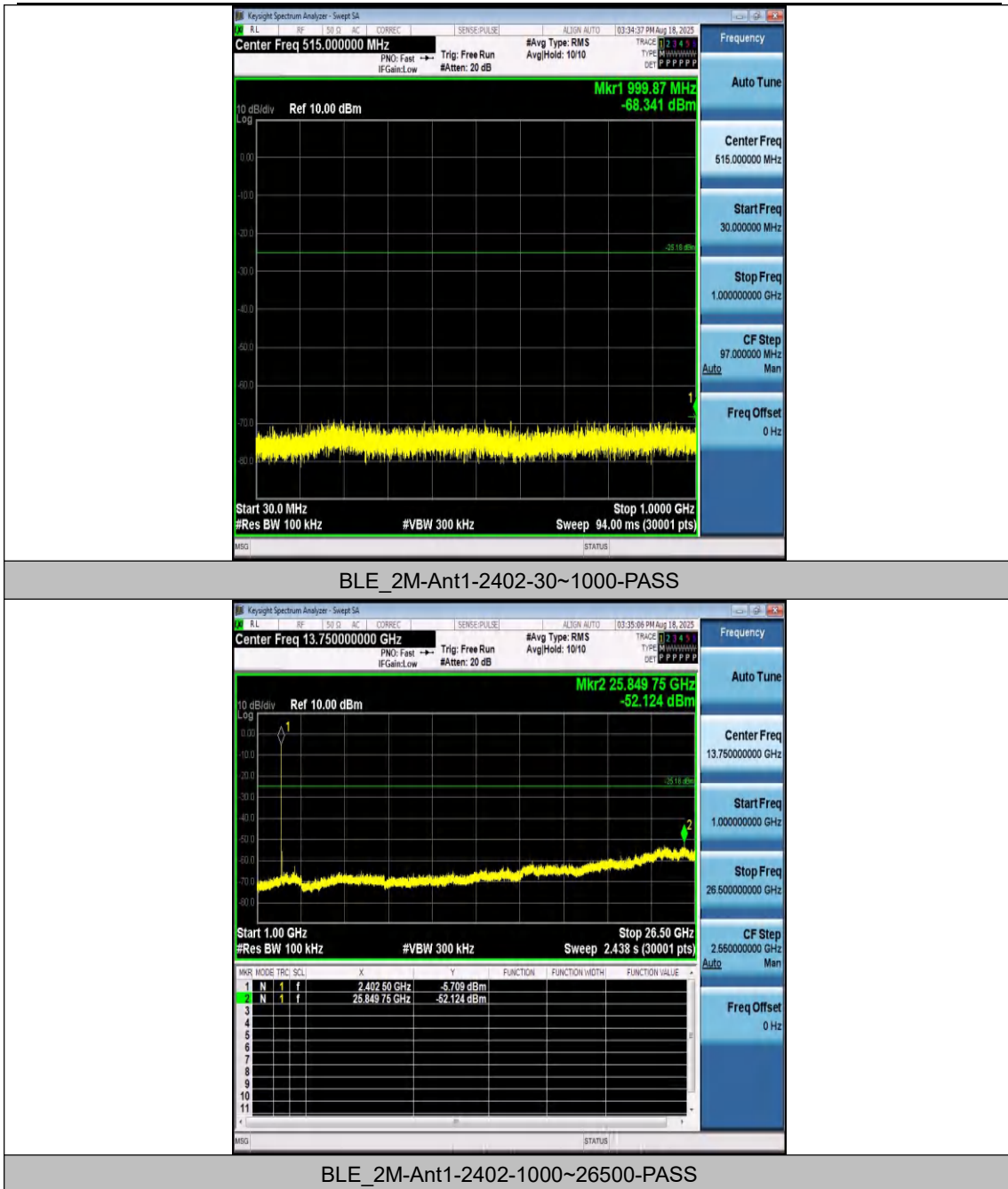
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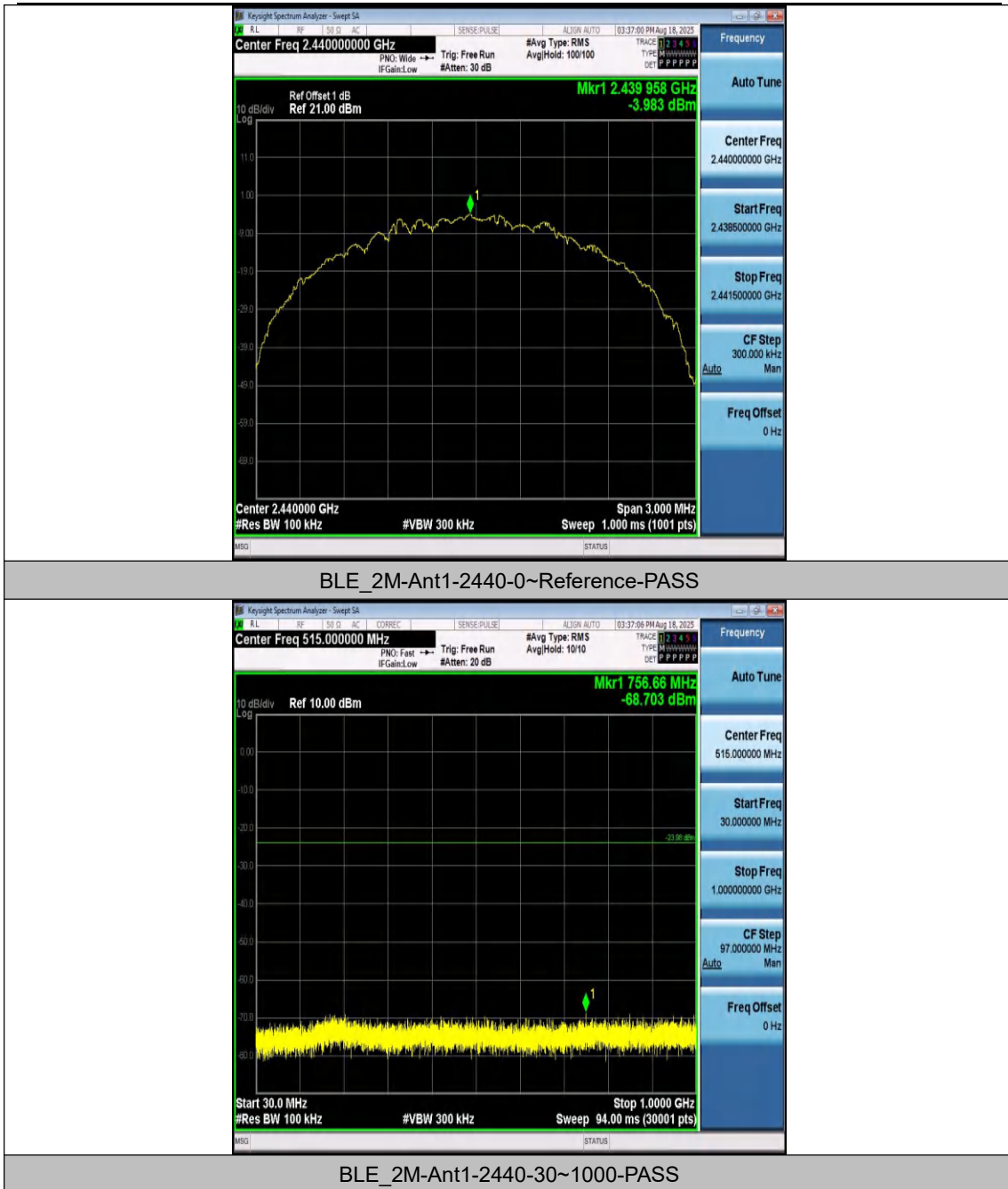
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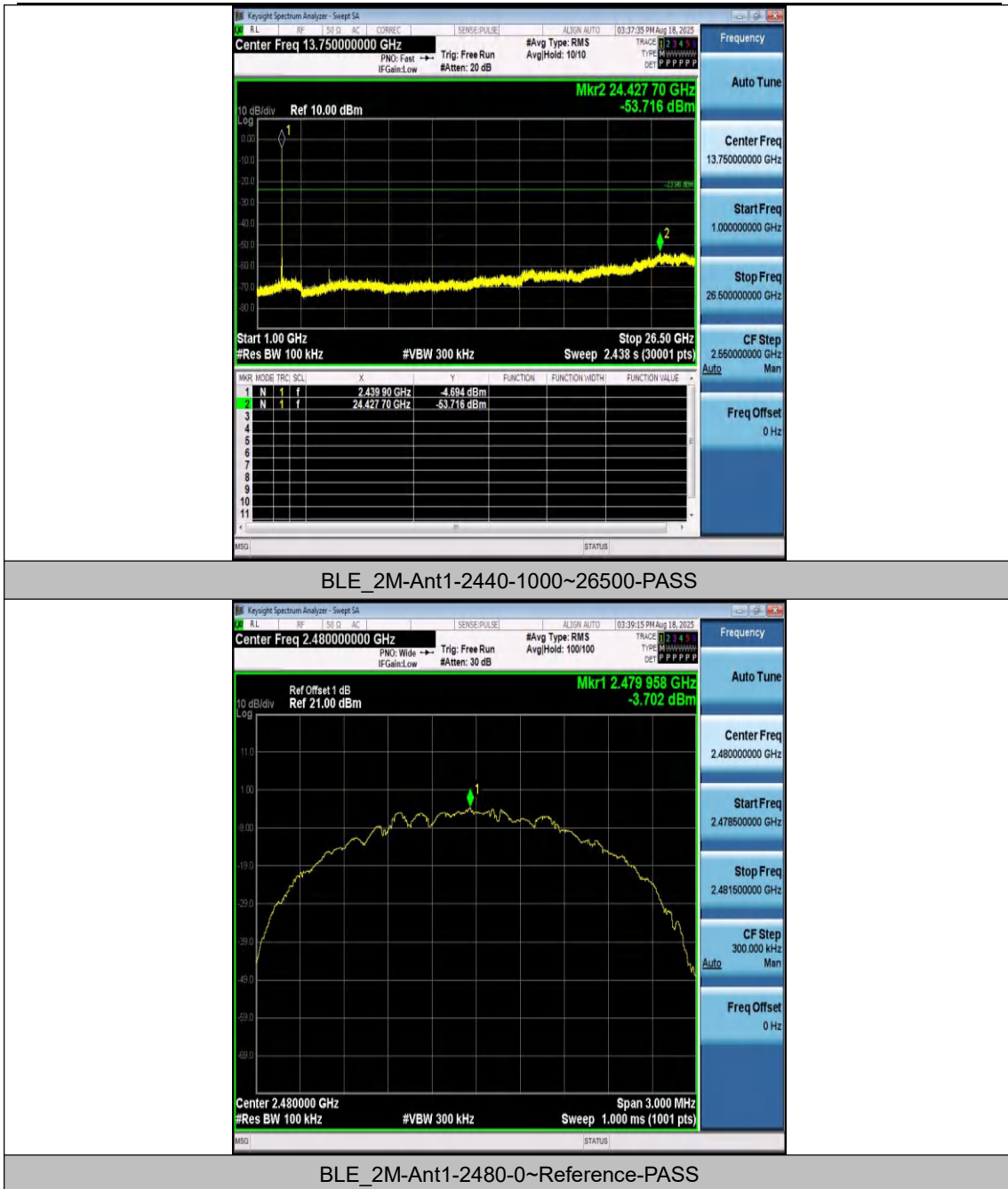
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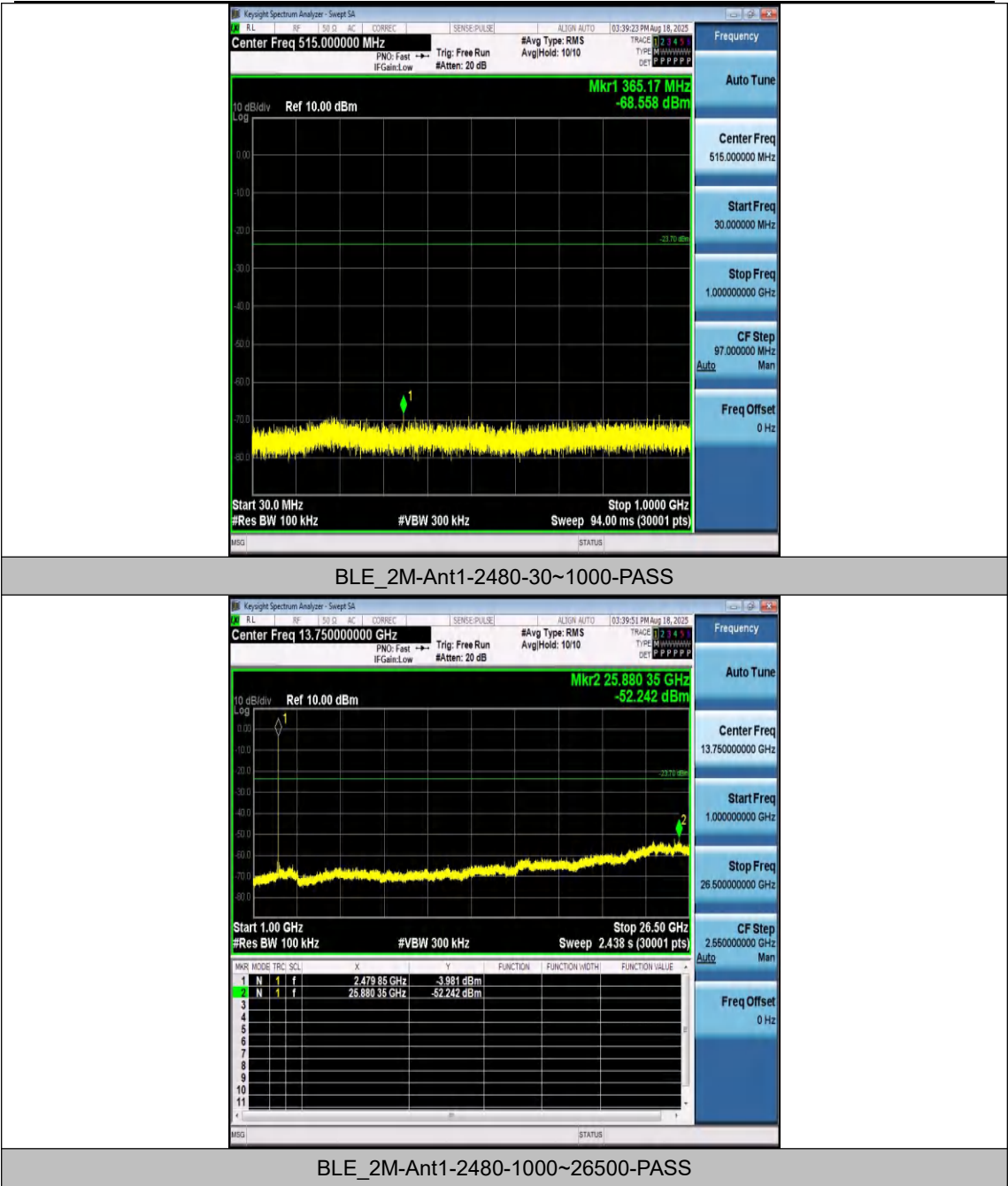
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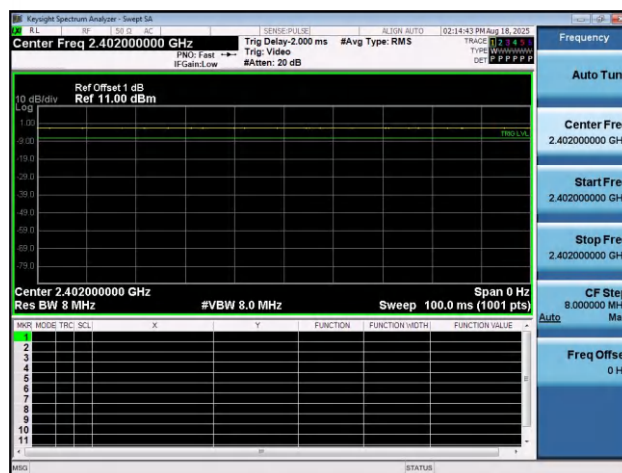
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Appendix G: Duty Cycle

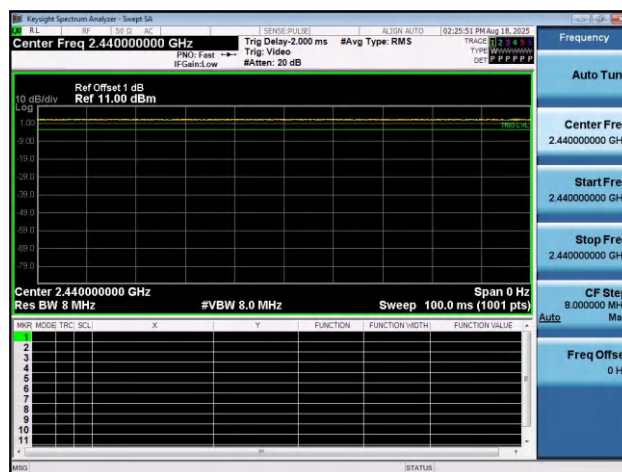
Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	100.00	100.00	100.00	0.00
BLE_1M	Ant1	2440	100.00	100.00	100.00	0.00
BLE_1M	Ant1	2480	100.00	100.00	100.00	0.00
BLE_2M	Ant1	2402	100.00	100.00	100.00	0.00
BLE_2M	Ant1	2440	100.00	100.00	100.00	0.00
BLE_2M	Ant1	2480	100.00	100.00	100.00	0.00

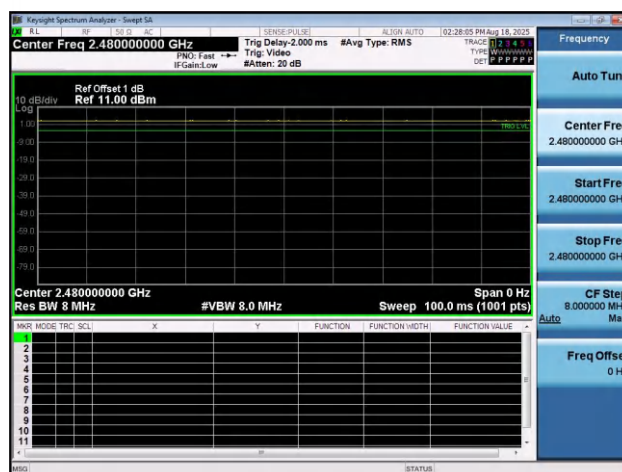
Test Graphs



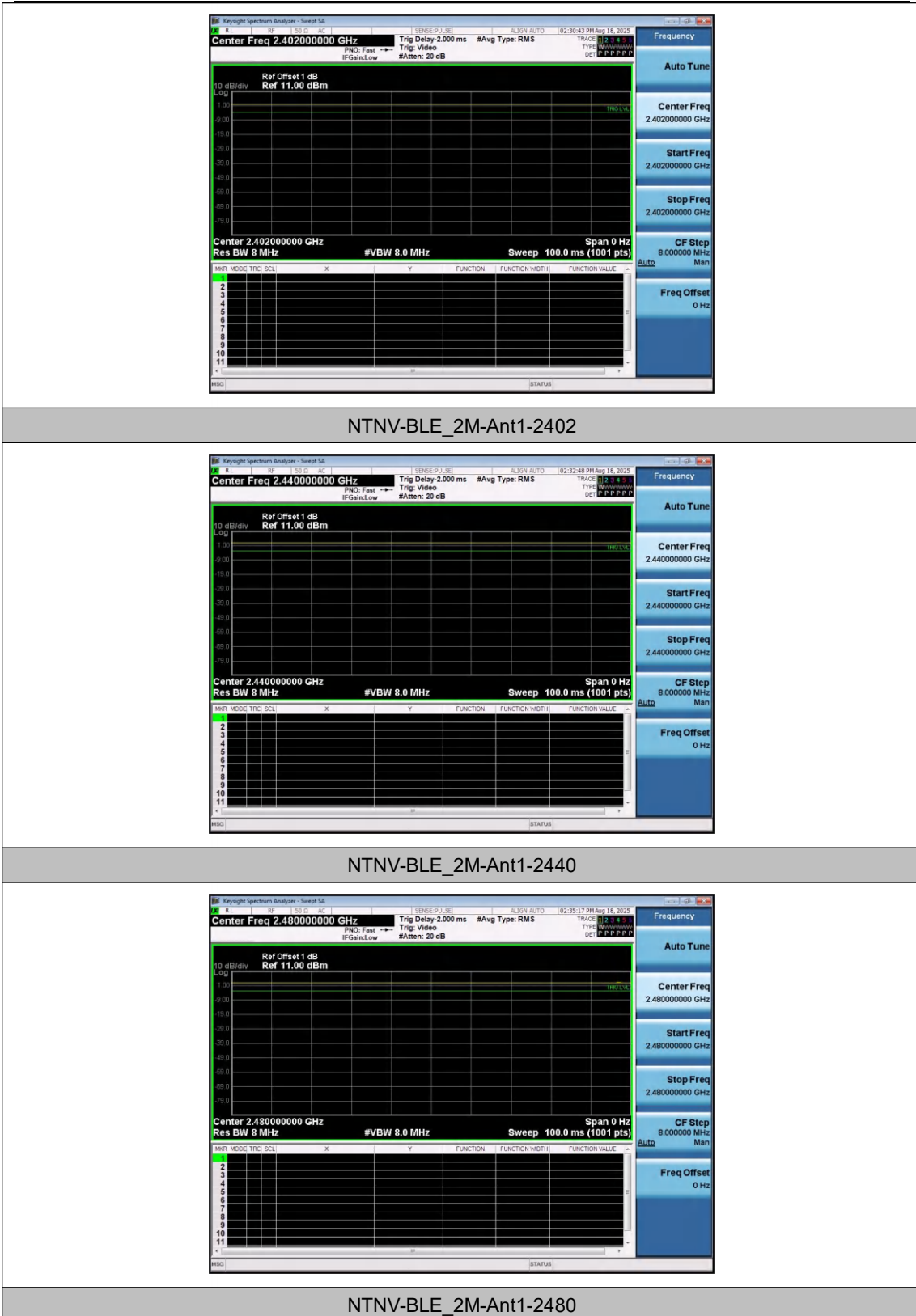
NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440



NTNV-BLE_1M-Ant1-2480



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