

Appendix Test Data

Report No.:	1812C50177212501	Test Sample No.:	1-2-2
Start Test Date:	2025.04.28	Finish Test Date:	2025.04.29
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	0.672	2401.672	2402.344	0.5	PASS
BLE_1M	Ant1	2440	0.652	2439.688	2440.340	0.5	PASS
BLE_1M	Ant1	2480	0.688	2479.668	2480.356	0.5	PASS
BLE_2M	Ant1	2402	1.116	2401.424	2402.540	0.5	PASS
BLE_2M	Ant1	2440	1.132	2439.456	2440.588	0.5	PASS
BLE_2M	Ant1	2480	1.140	2479.440	2480.580	0.5	PASS



Test Graphs



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Appendix B: 99% Occupied Bandwidth

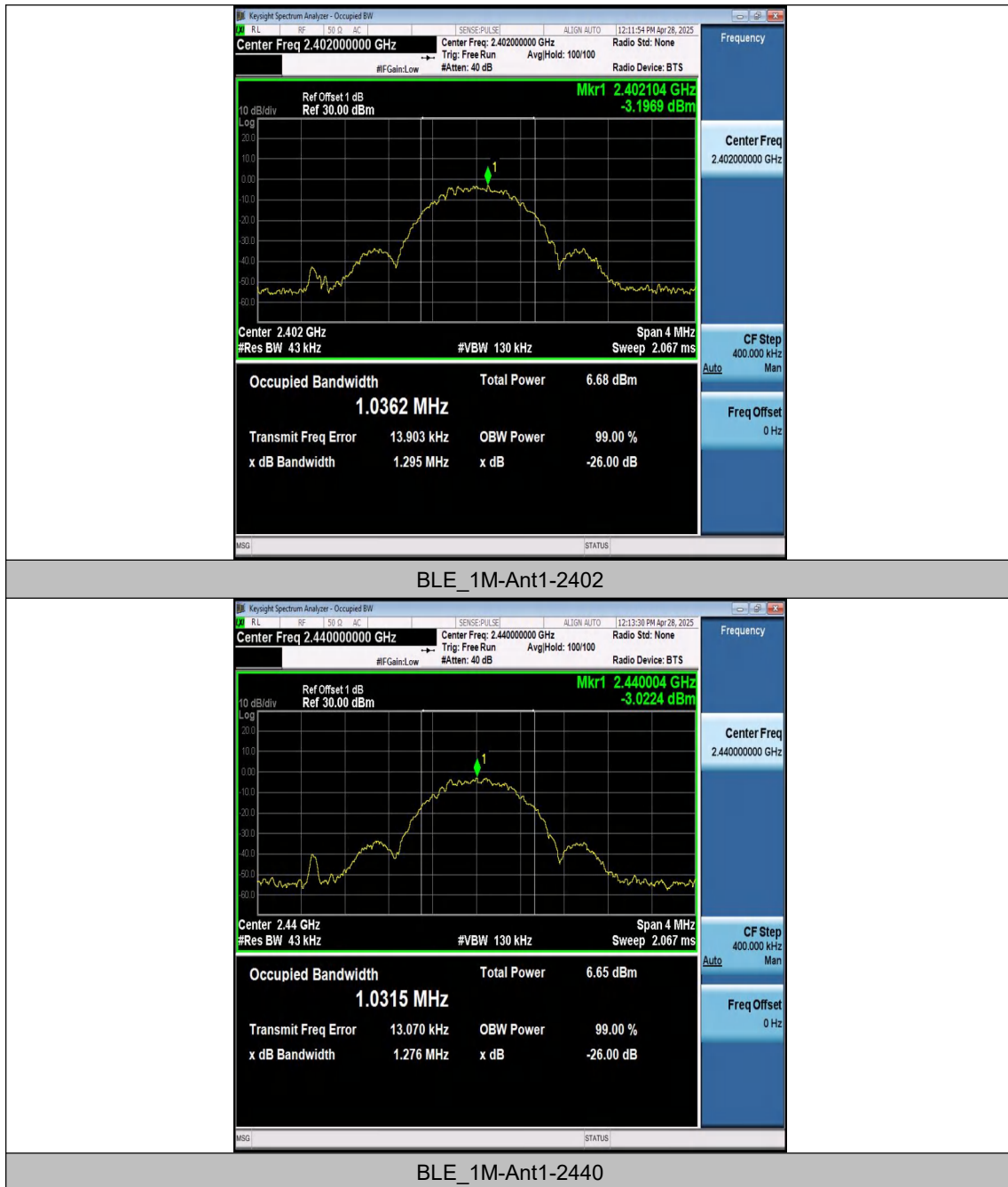
Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0362	2401.4958	2402.5320	---	---
BLE_1M	Ant1	2440	1.0315	2439.4973	2440.5288	---	---
BLE_1M	Ant1	2480	1.0406	2479.4934	2480.5340	---	---
BLE_2M	Ant1	2402	2.0400	2401.0034	2403.0434	---	---
BLE_2M	Ant1	2440	2.0600	2438.9939	2441.0539	---	---
BLE_2M	Ant1	2480	2.0521	2478.9956	2481.0477	---	---

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Test Graphs



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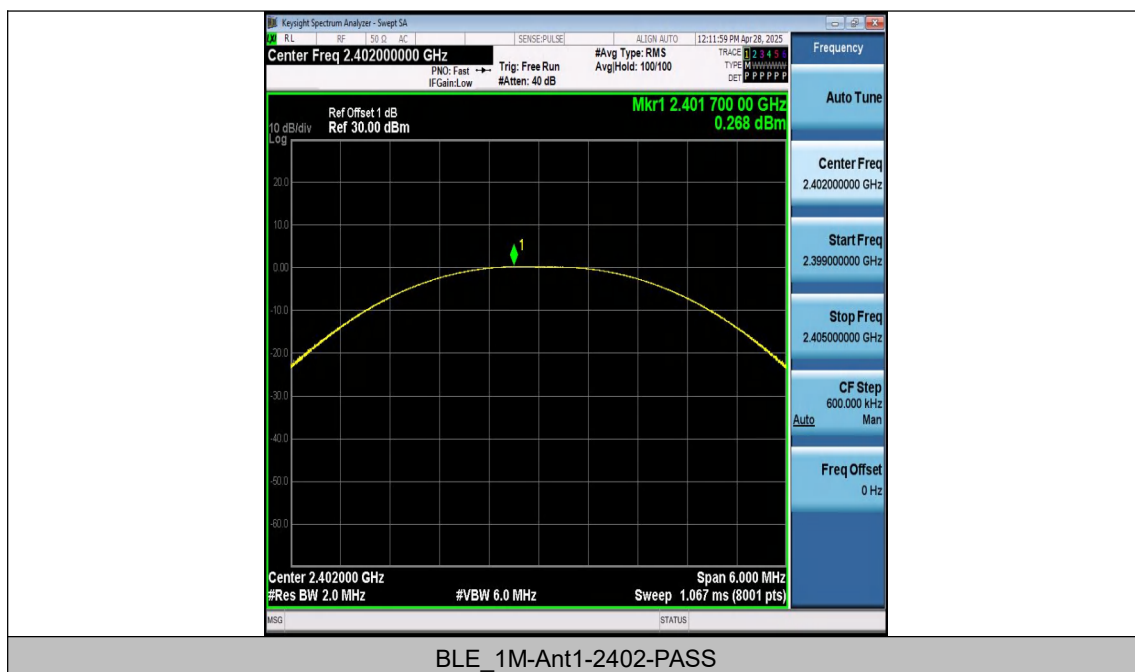
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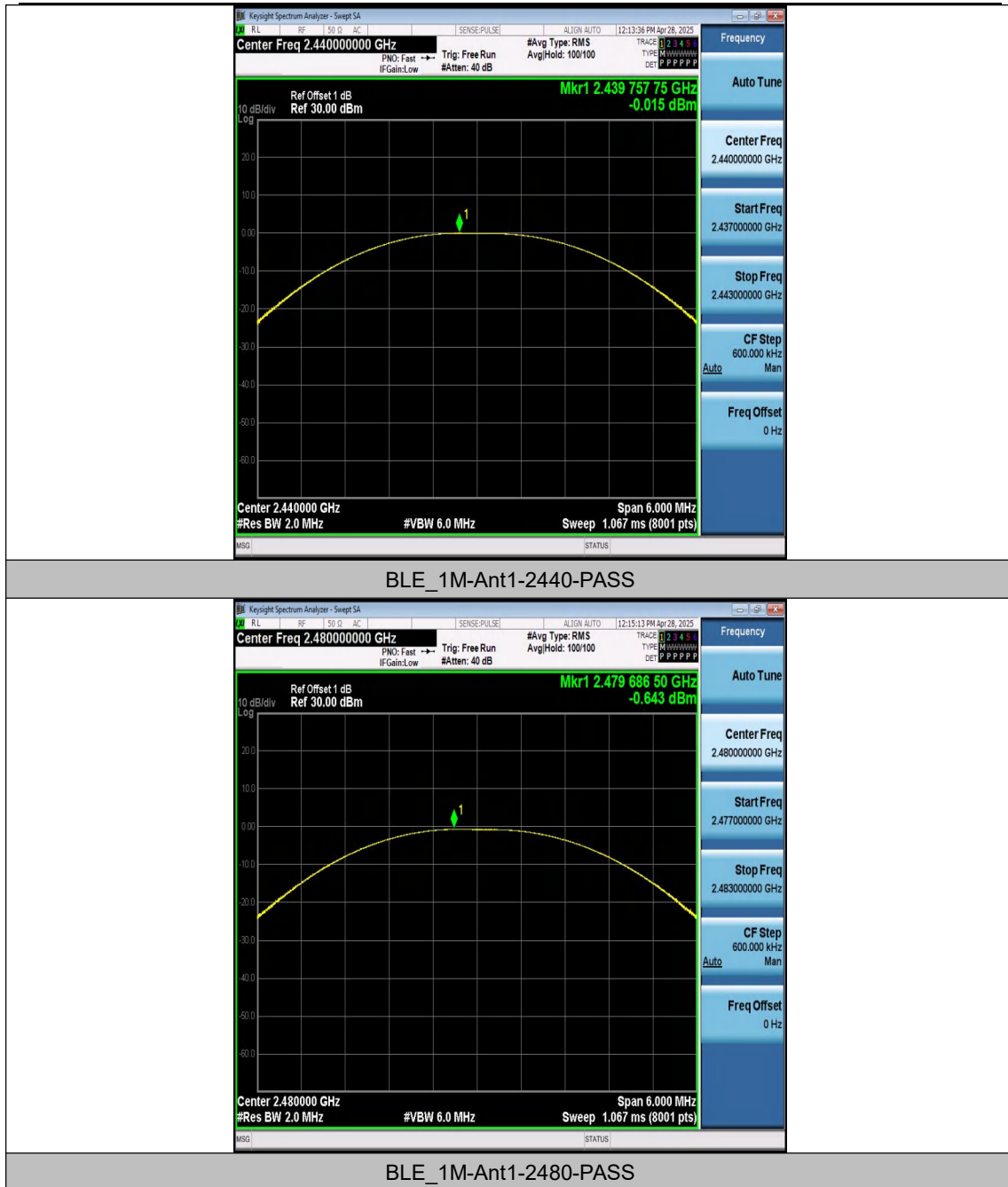
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.27	≤30	PASS
BLE_1M	Ant1	2440	-0.02	≤30	PASS
BLE_1M	Ant1	2480	-0.64	≤30	PASS
BLE_2M	Ant1	2402	0.63	≤30	PASS
BLE_2M	Ant1	2440	0.46	≤30	PASS
BLE_2M	Ant1	2480	-0.04	≤30	PASS

Test Graphs Peak

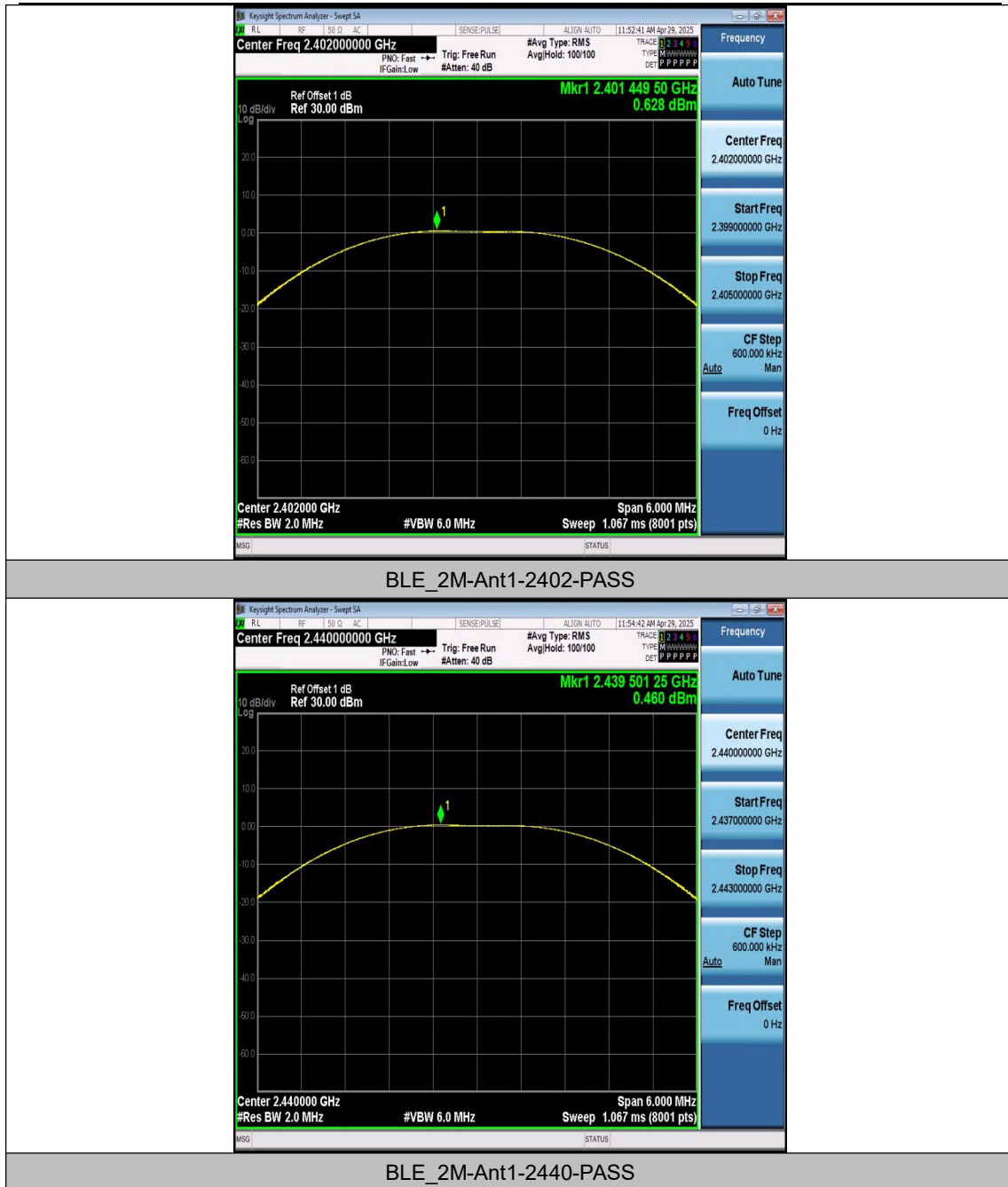




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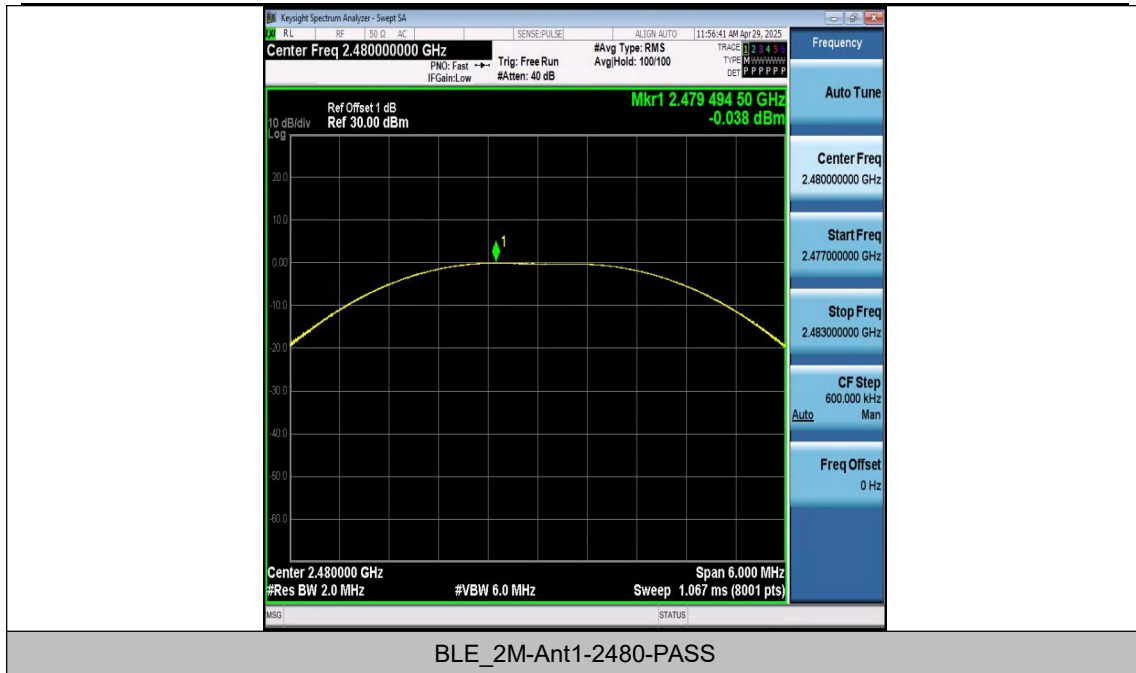


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Appendix D: Maximum power spectral density

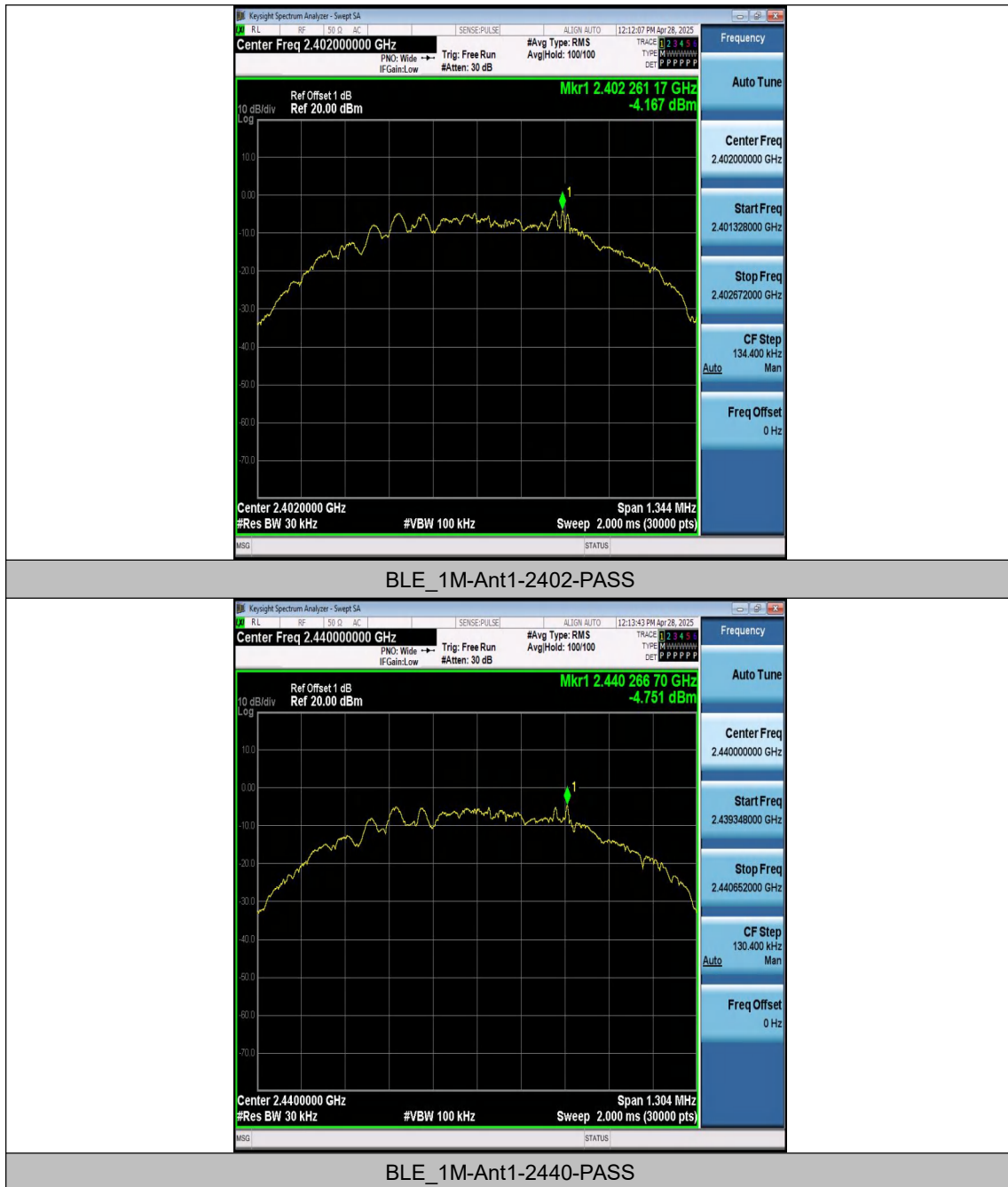
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-4.17	-14.17	≤8.00	PASS
BLE_1M	Ant1	2440	-4.75	-14.75	≤8.00	PASS
BLE_1M	Ant1	2480	-4.41	-14.41	≤8.00	PASS
BLE_2M	Ant1	2402	-18.09	-28.09	≤8.00	PASS
BLE_2M	Ant1	2440	-18.05	-28.05	≤8.00	PASS
BLE_2M	Ant1	2480	-18.34	-28.34	≤8.00	PASS

Note: $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 * \log(30/3))$.



Test Graphs

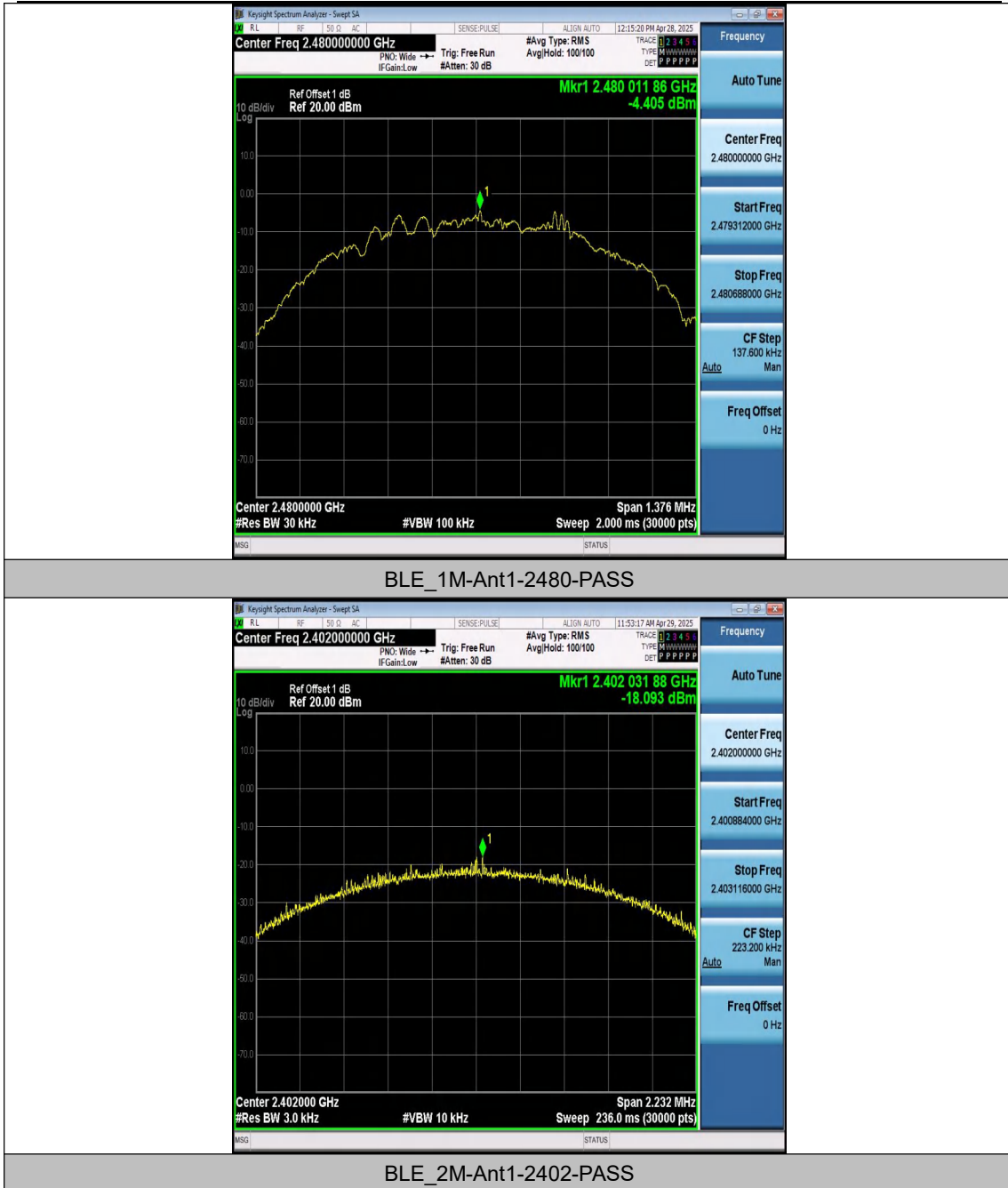


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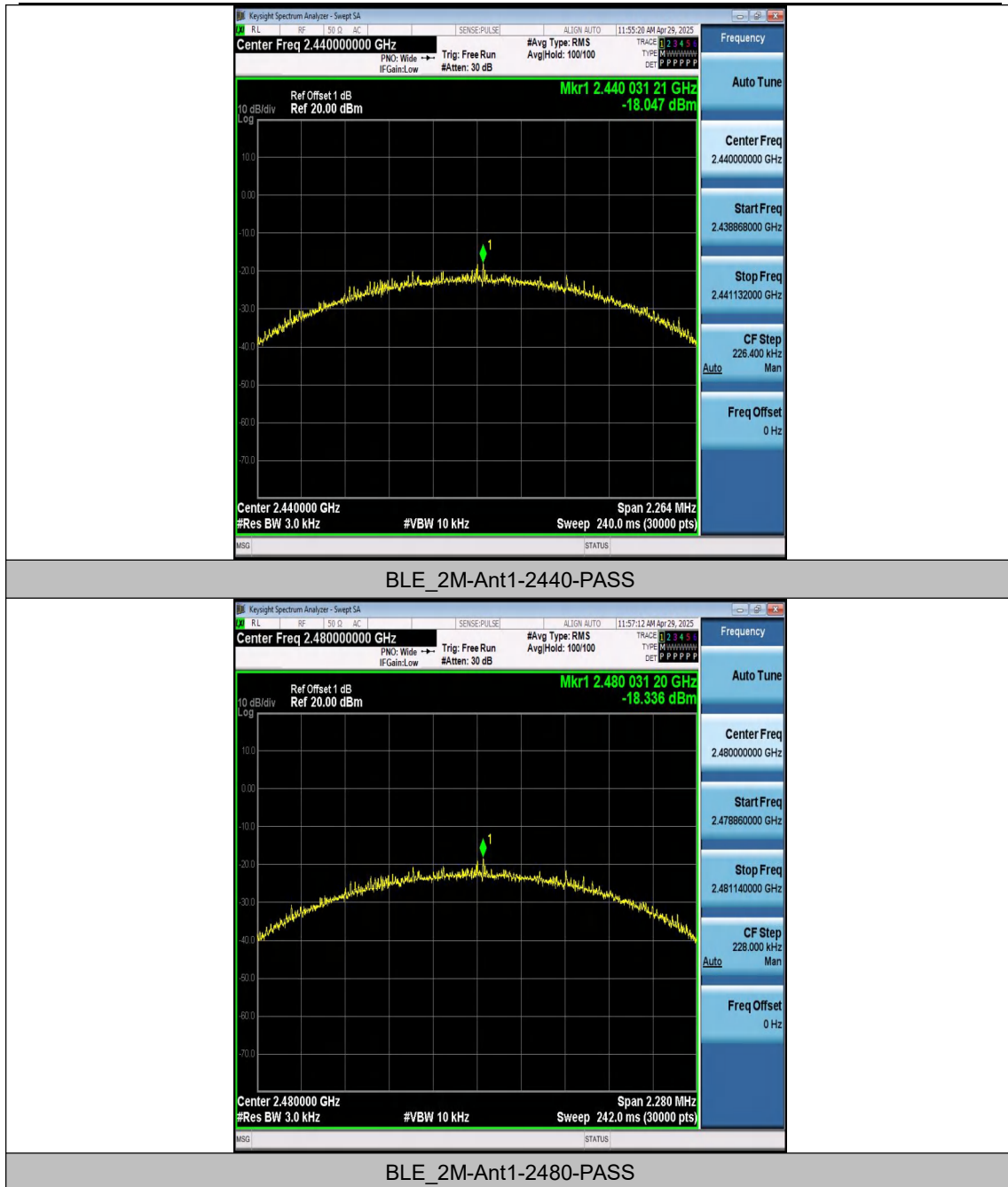


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Appendix E: Band edge measurements

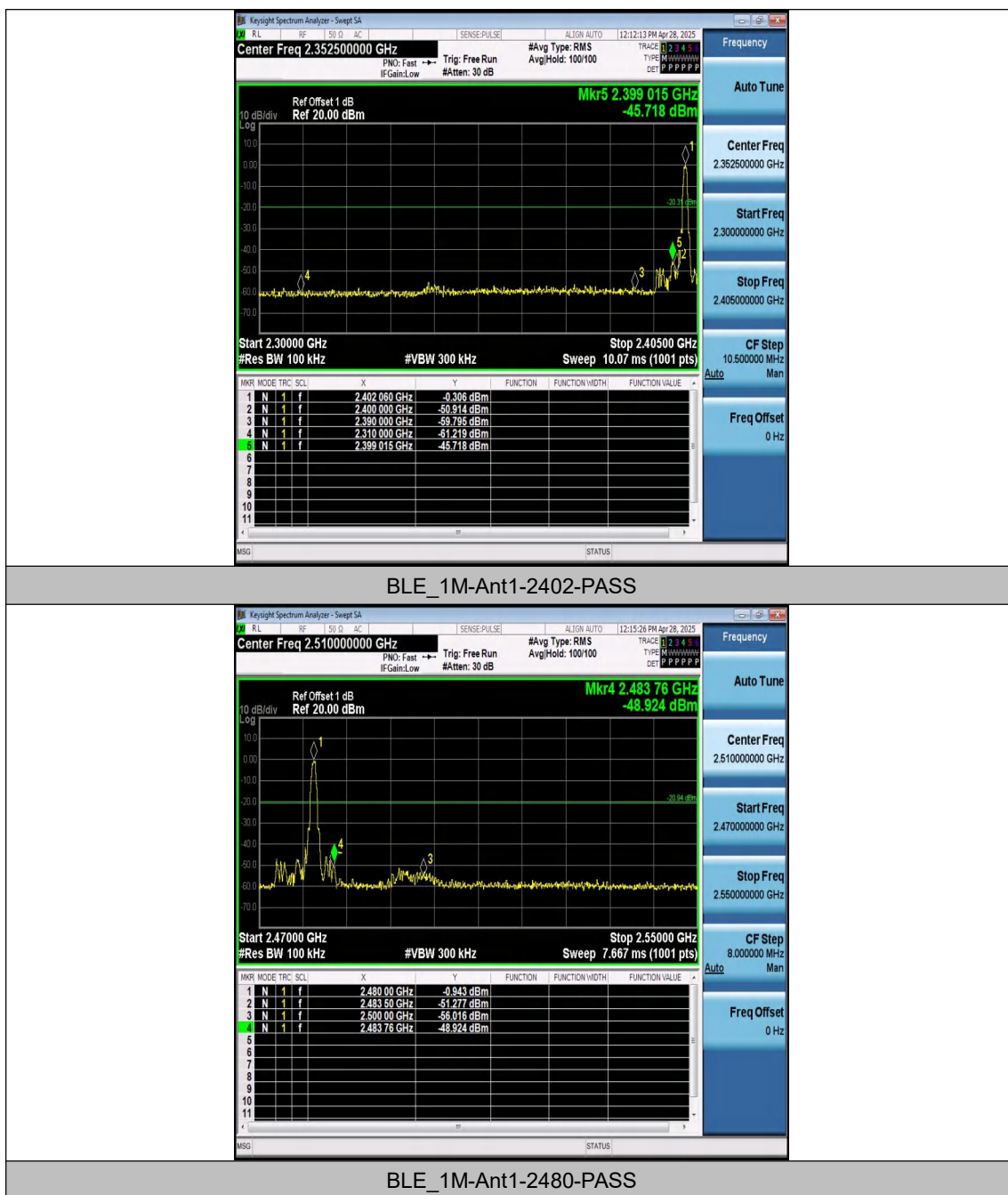
Test Result

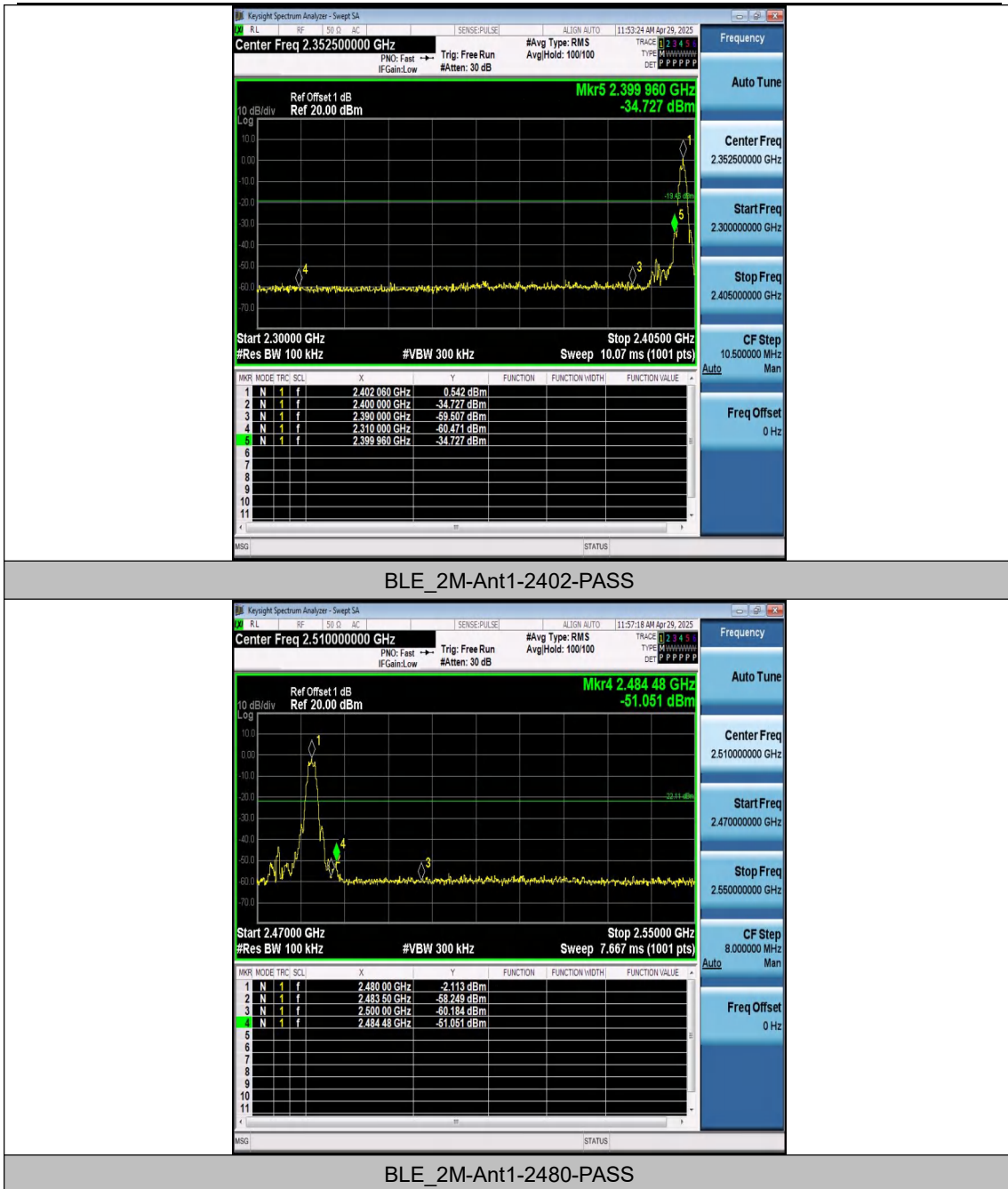
Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.31	-45.72	≤-20.31	PASS
BLE_1M	Ant1	High	2480	-0.94	-48.92	≤-20.94	PASS
BLE_2M	Ant1	Low	2402	0.54	-34.73	≤-19.46	PASS
BLE_2M	Ant1	High	2480	-2.11	-51.05	≤-22.11	PASS

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





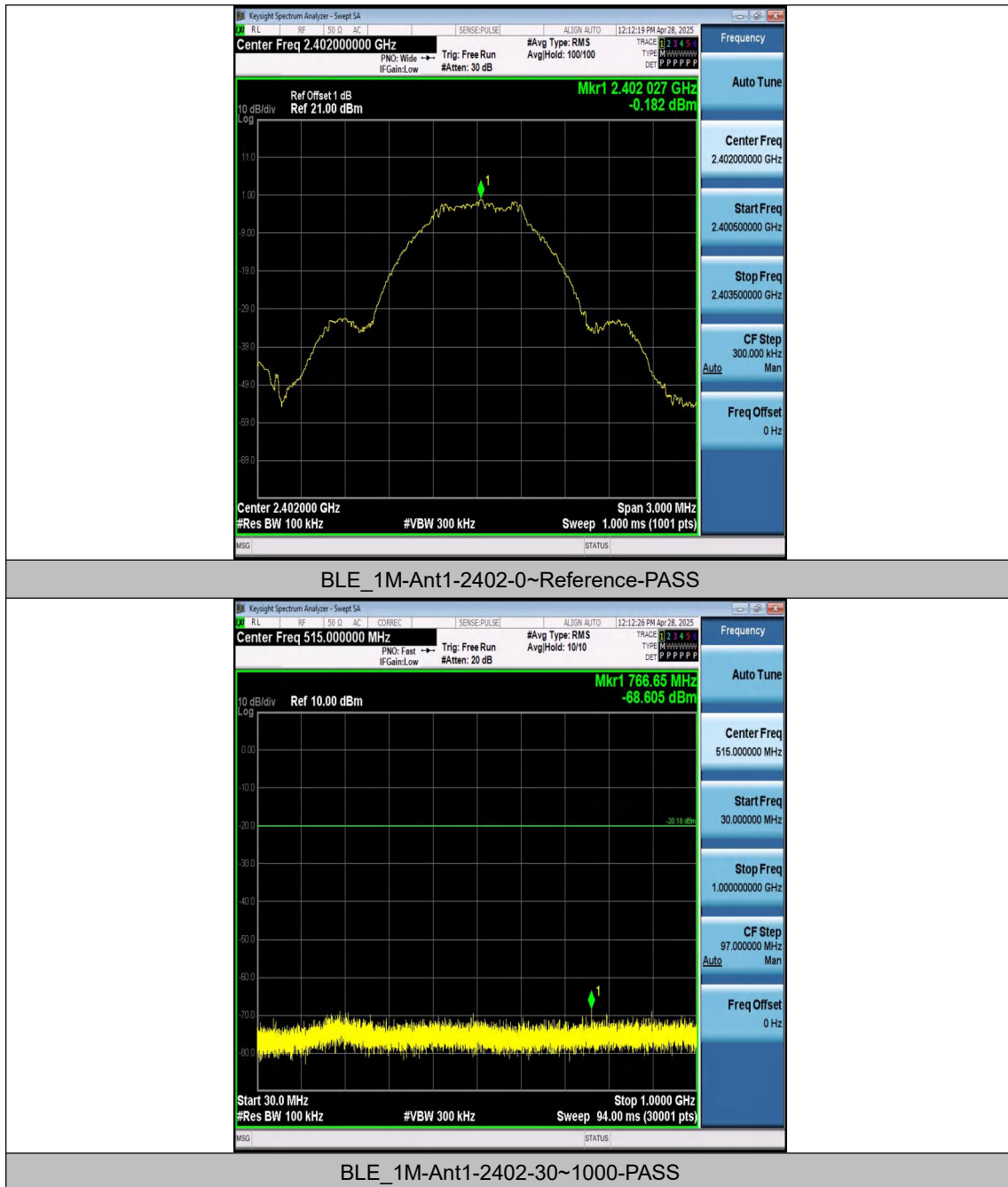
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.18	-0.18	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.18	-68.61	≤-20.18	PASS
BLE_1M	Ant1	2402	1000~26500	-0.18	-44.17	≤-20.18	PASS
BLE_1M	Ant1	2440	0~Reference	-0.39	-0.39	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.39	-68.64	≤-20.39	PASS
BLE_1M	Ant1	2440	1000~26500	-0.39	-44.62	≤-20.39	PASS
BLE_1M	Ant1	2480	0~Reference	-0.96	-0.96	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.96	-68.69	≤-20.96	PASS
BLE_1M	Ant1	2480	1000~26500	-0.96	-42.13	≤-20.96	PASS
BLE_2M	Ant1	2402	0~Reference	-0.21	-0.21	---	PASS
BLE_2M	Ant1	2402	30~1000	-0.21	-68.51	≤-20.21	PASS
BLE_2M	Ant1	2402	1000~26500	-0.21	-46.48	≤-20.21	PASS
BLE_2M	Ant1	2440	0~Reference	-0.72	-0.72	---	PASS
BLE_2M	Ant1	2440	30~1000	-0.72	-68.82	≤-20.72	PASS
BLE_2M	Ant1	2440	1000~26500	-0.72	-44.53	≤-20.72	PASS
BLE_2M	Ant1	2480	0~Reference	-0.50	-0.50	---	PASS
BLE_2M	Ant1	2480	30~1000	-0.50	-68.93	≤-20.5	PASS
BLE_2M	Ant1	2480	1000~26500	-0.50	-42.13	≤-20.5	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

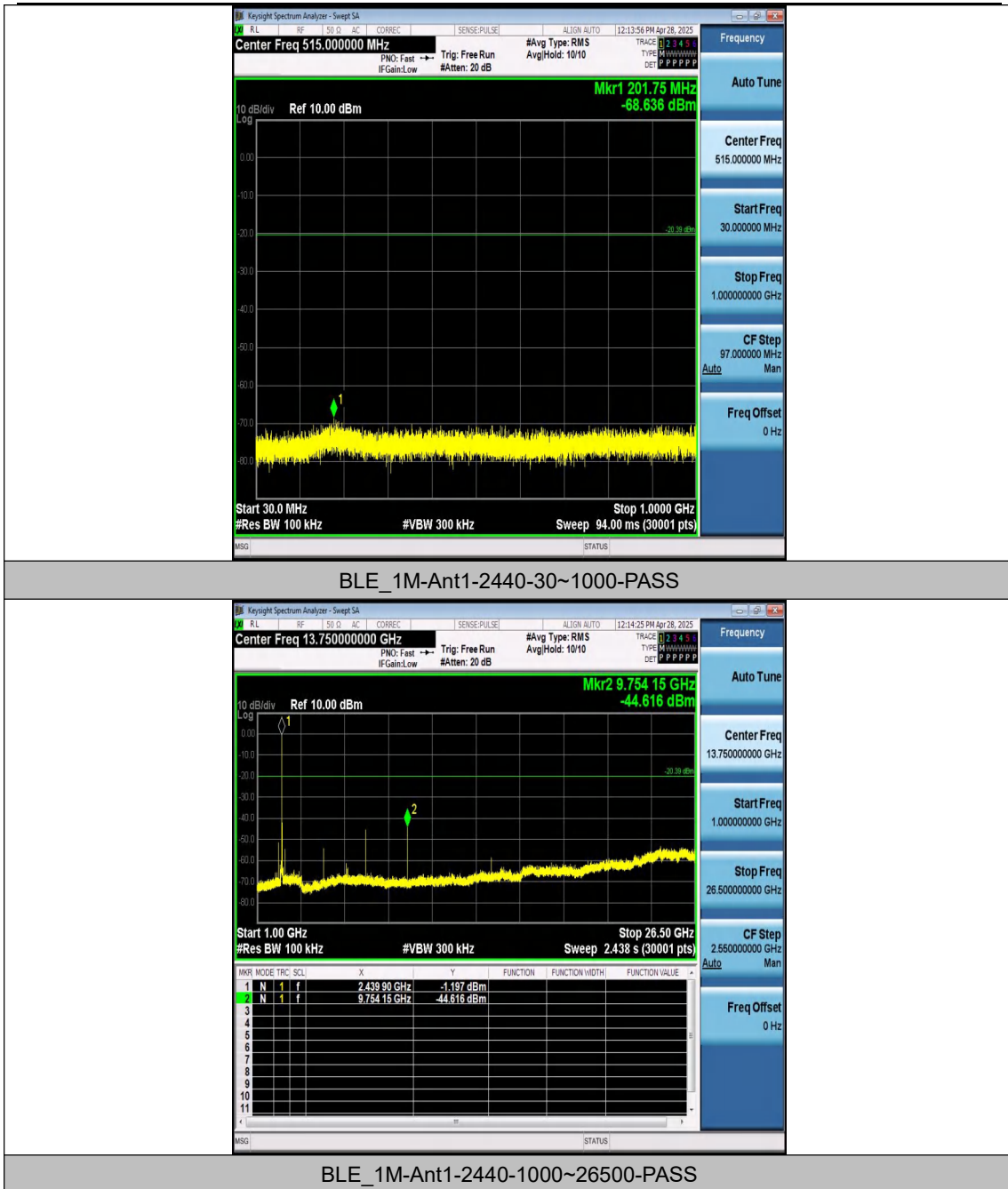


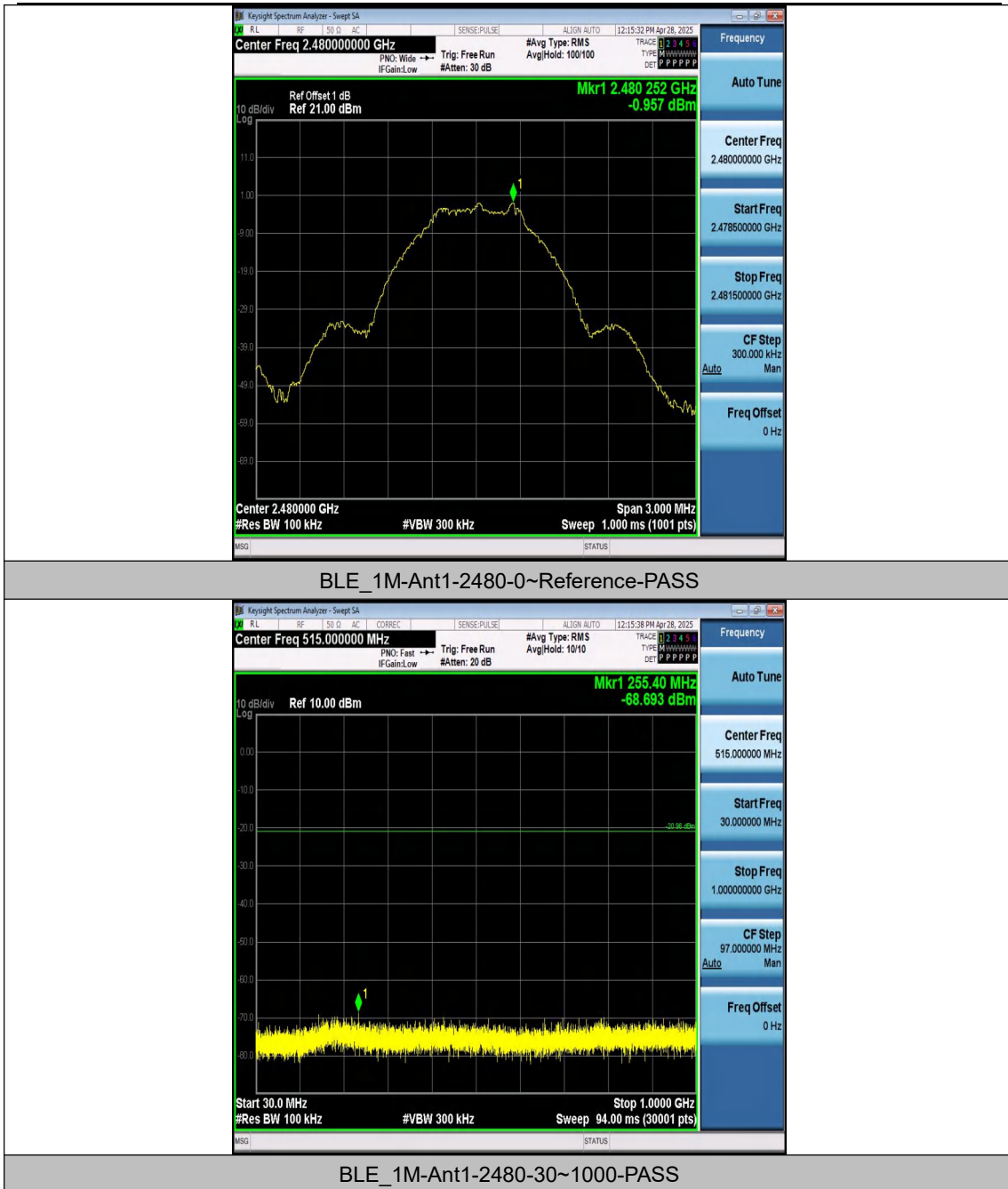
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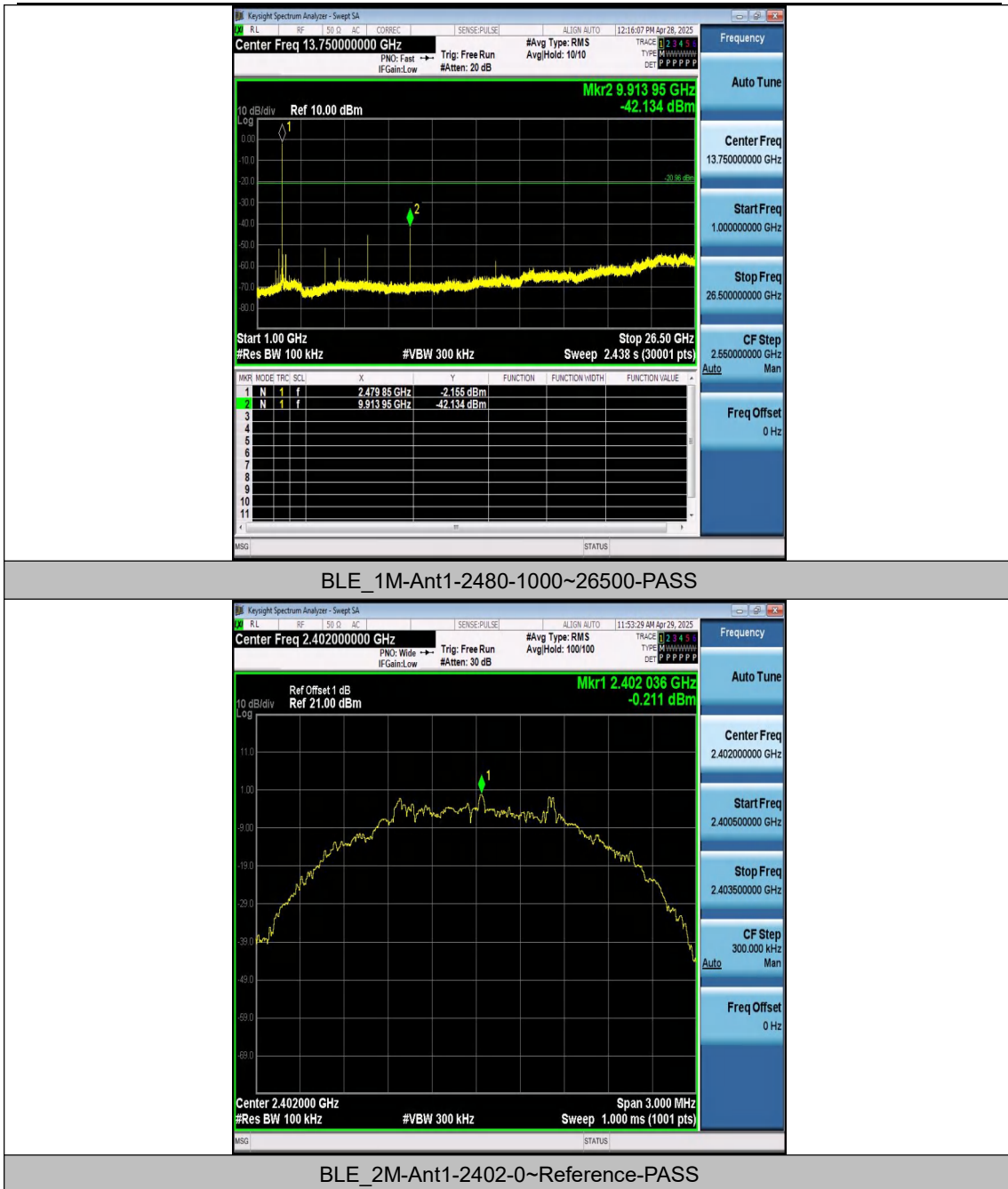


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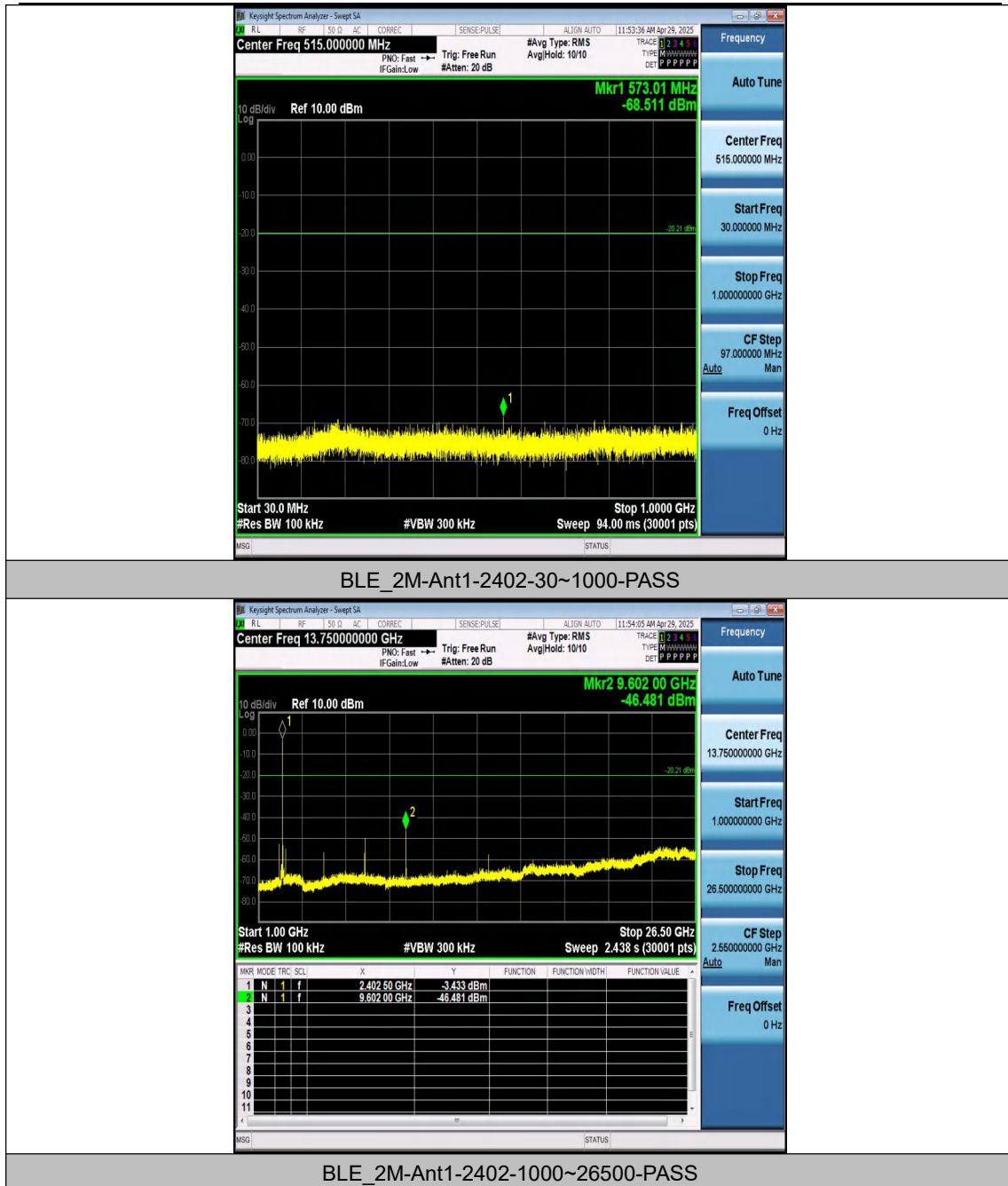
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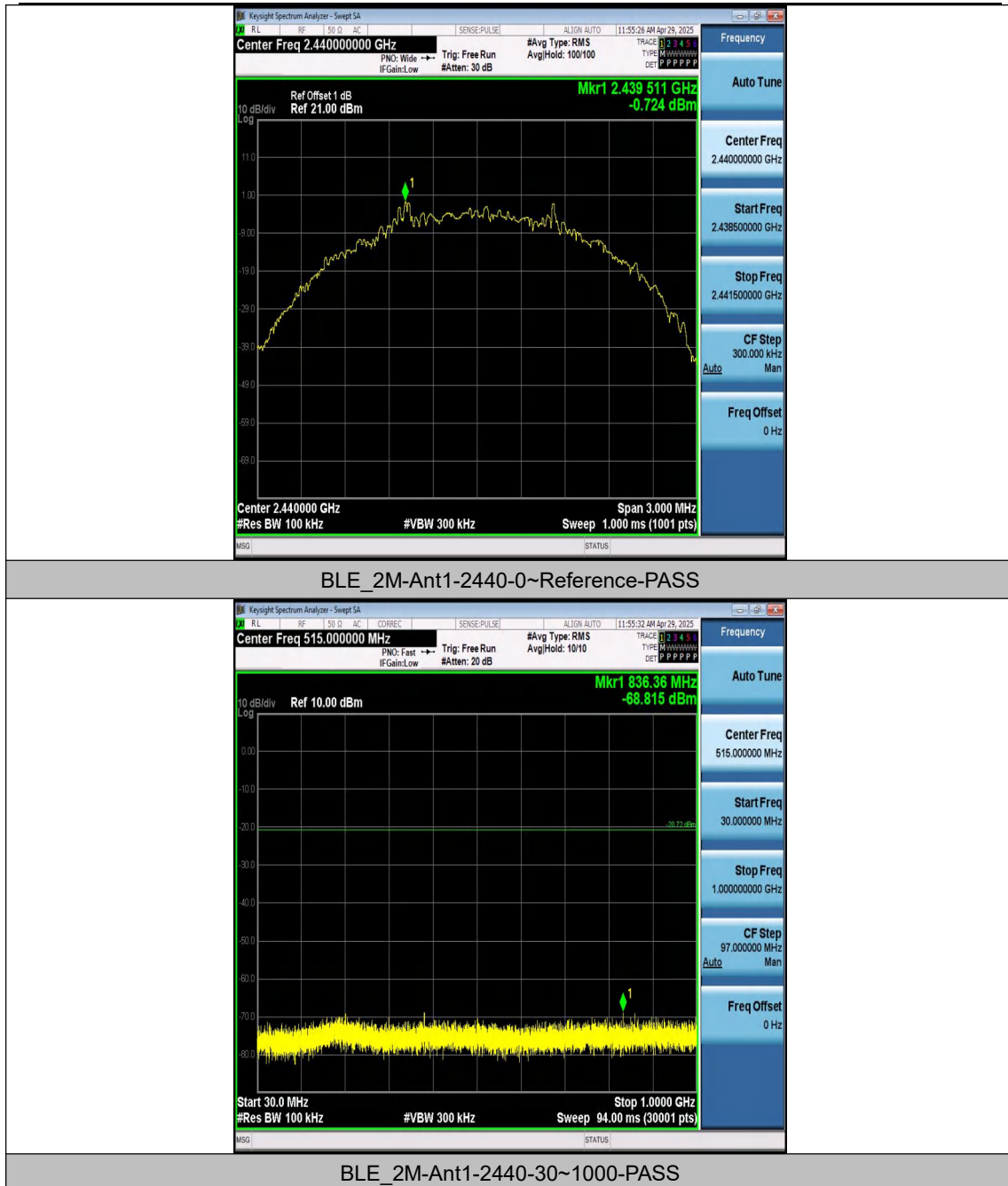


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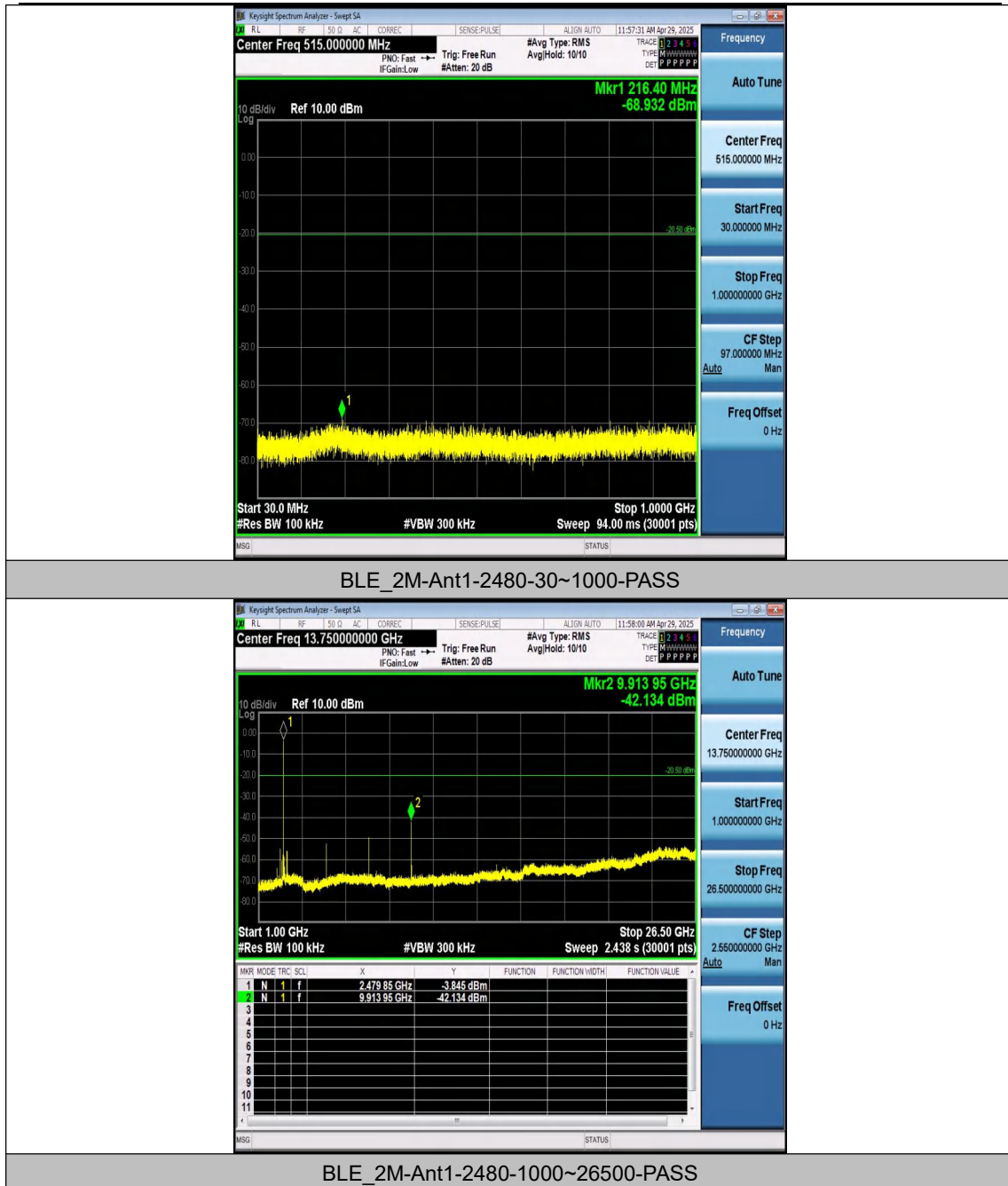
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Appendix G: Duty Cycle

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	2.14	2.51	85.26	0.69
BLE_1M	Ant1	2480	2.13	2.50	85.20	0.70
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

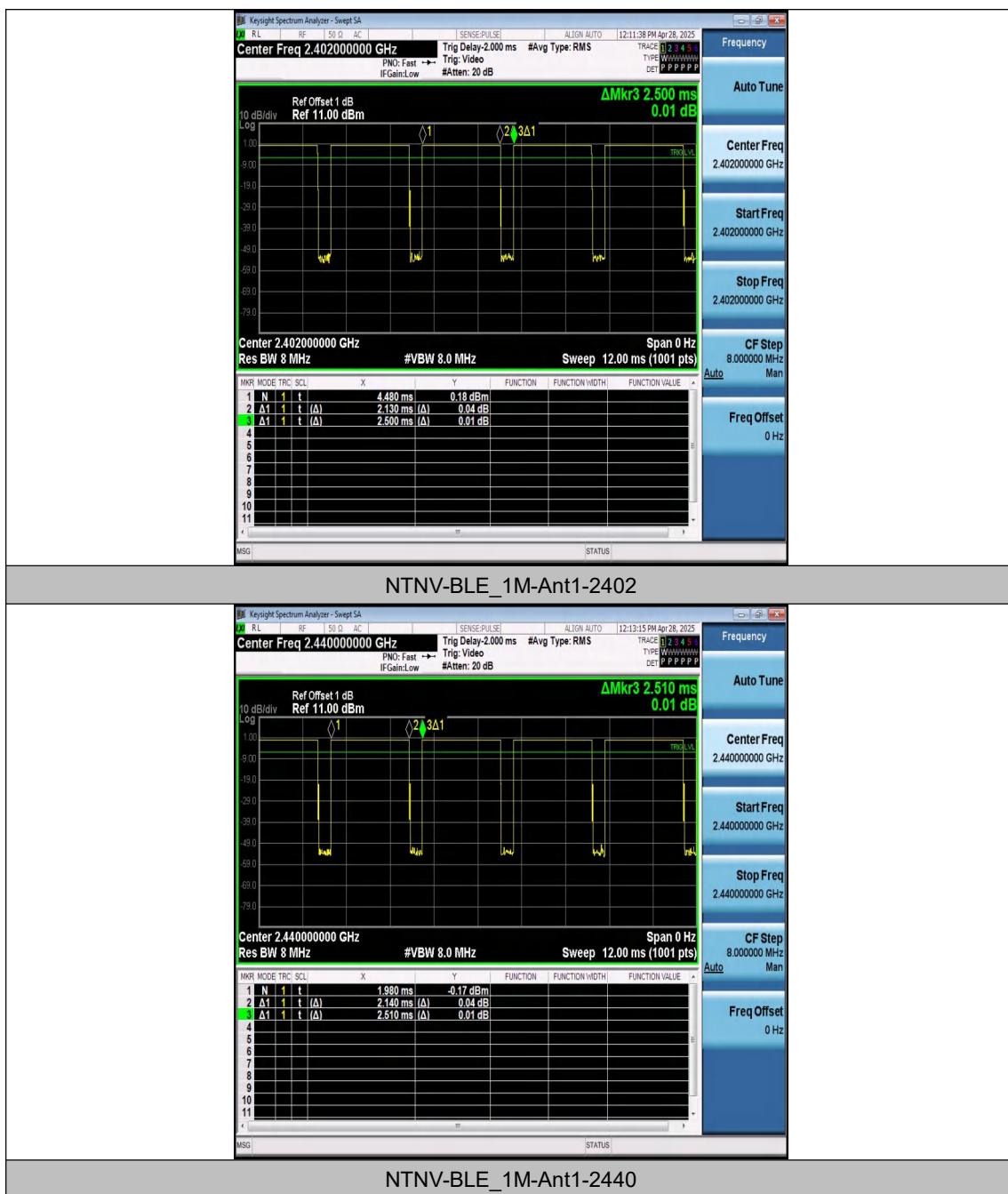
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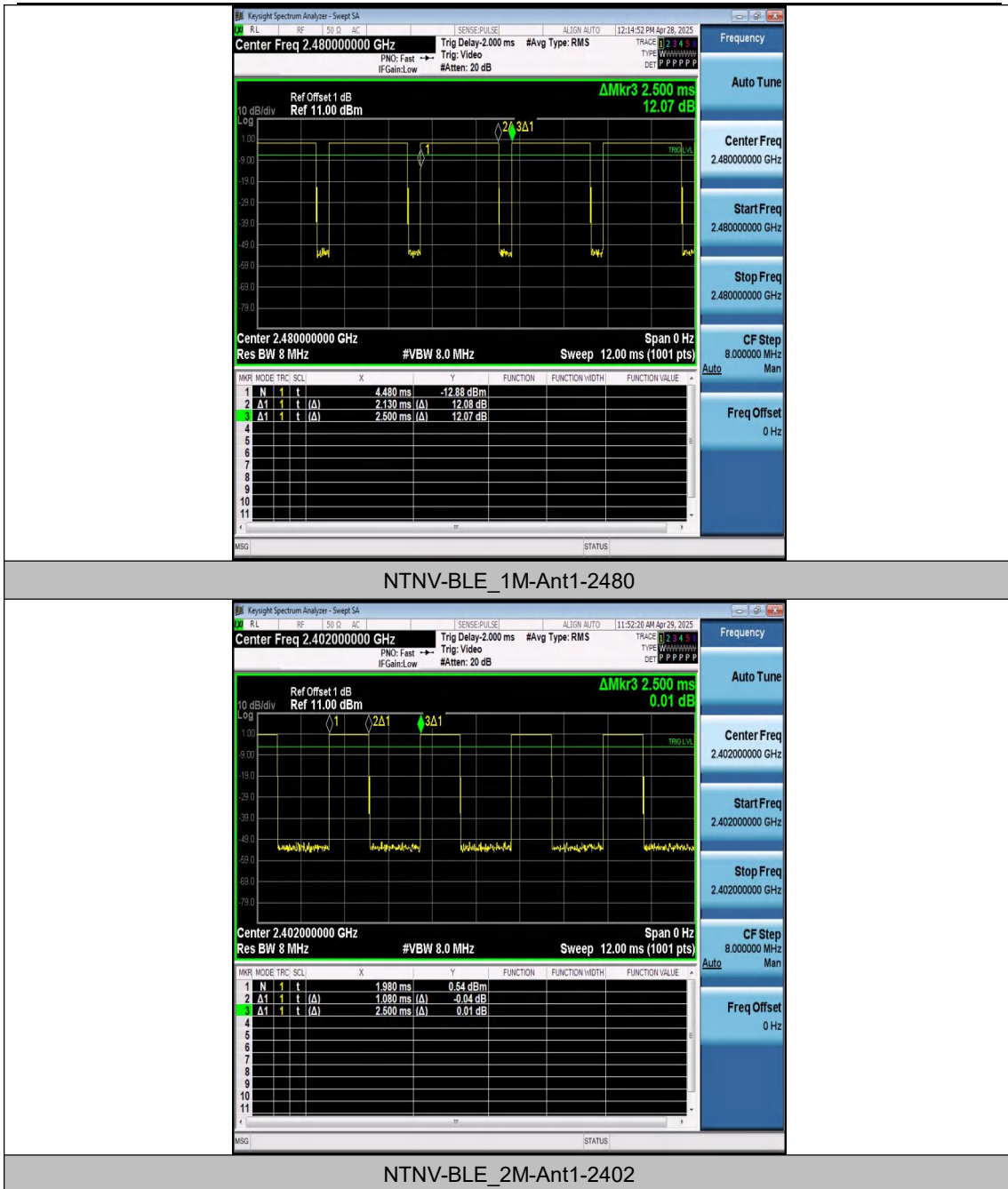
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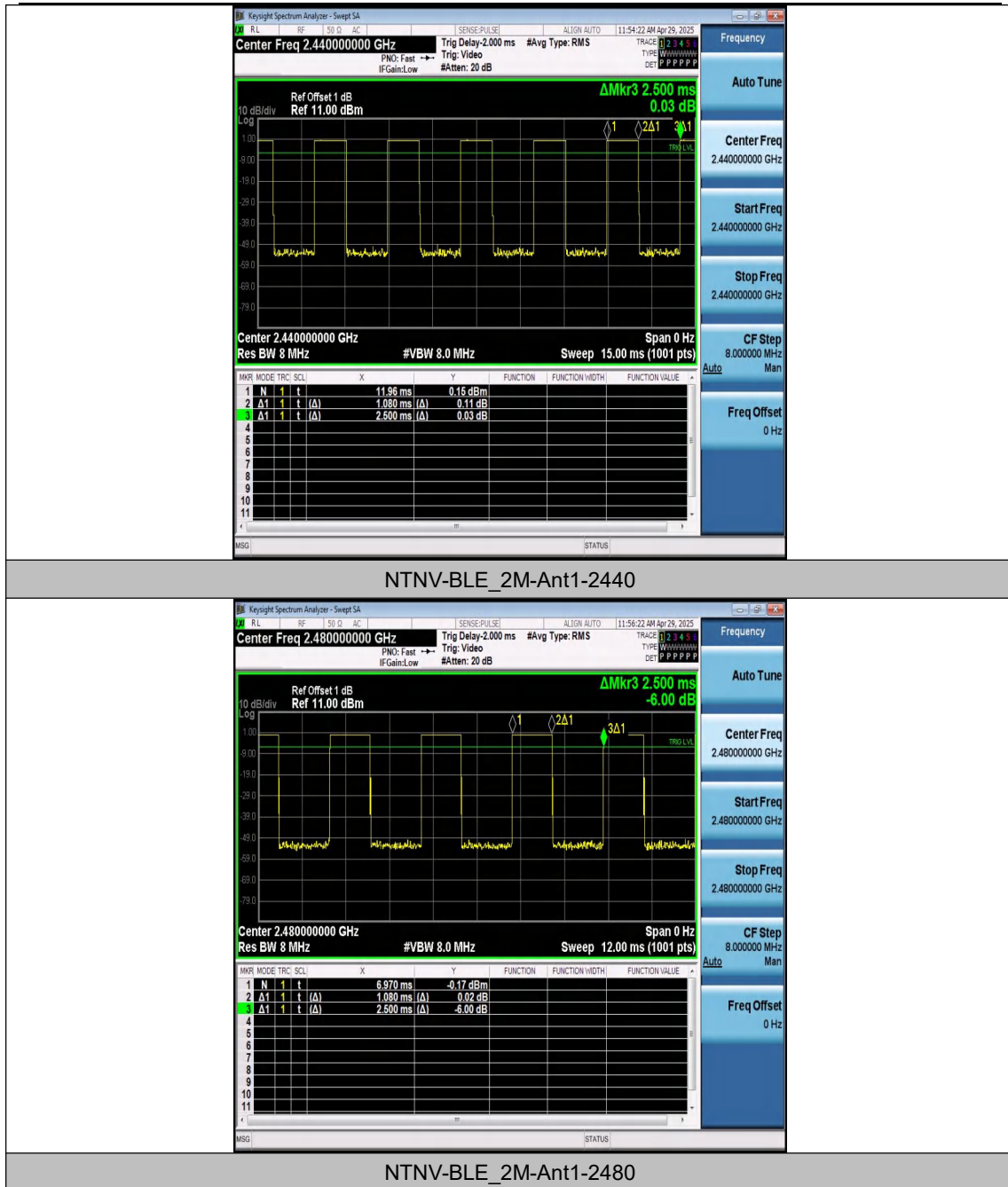


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