

Appendix Test Data

Report No.:	1812C50209712501	Test Sample No.:	1-2-2
Start Test Date:	2025-06-11	Finish Test Date:	2025-06-11
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.8°C	Relative Humidity:	53%
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	0.712	2401.632	2402.344	0.5	PASS
BLE_1M	Ant1	2440	0.708	2439.636	2440.344	0.5	PASS
BLE_1M	Ant1	2480	0.680	2479.644	2480.324	0.5	PASS
BLE_2M	Ant1	2402	1.212	2401.388	2402.600	0.5	PASS
BLE_2M	Ant1	2440	1.200	2439.408	2440.608	0.5	PASS
BLE_2M	Ant1	2480	1.244	2479.340	2480.584	0.5	PASS

Test Graphs







Appendix B: 99% Occupied Bandwidth

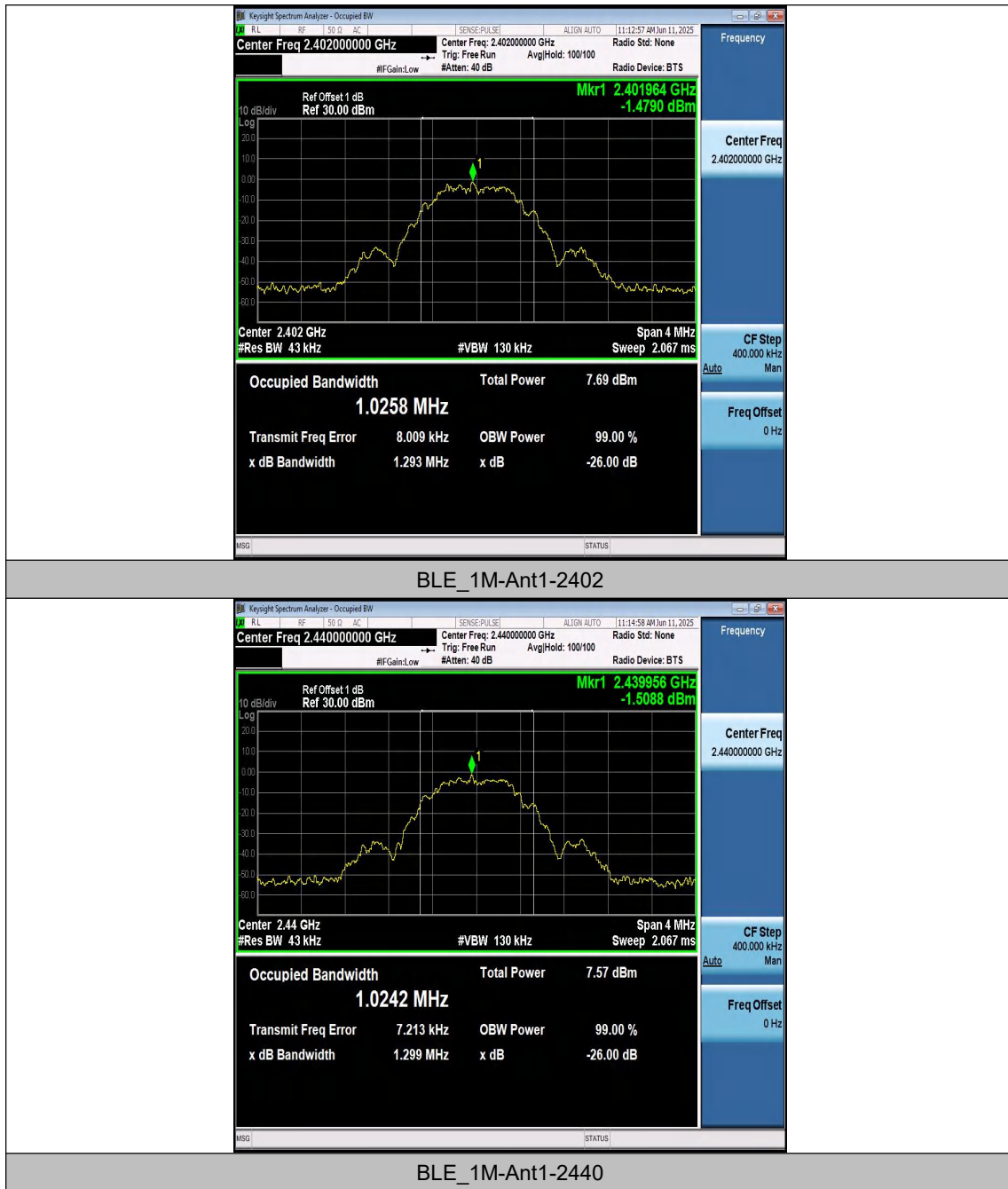
Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0258	2401.4951	2402.5209	---	---
BLE_1M	Ant1	2440	1.0242	2439.4951	2440.5193	---	---
BLE_1M	Ant1	2480	1.0234	2479.4930	2480.5164	---	---
BLE_2M	Ant1	2402	2.0408	2400.9997	2403.0405	---	---
BLE_2M	Ant1	2440	2.0288	2439.0035	2441.0323	---	---
BLE_2M	Ant1	2480	2.0248	2479.0167	2481.0415	---	---

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Test Graphs



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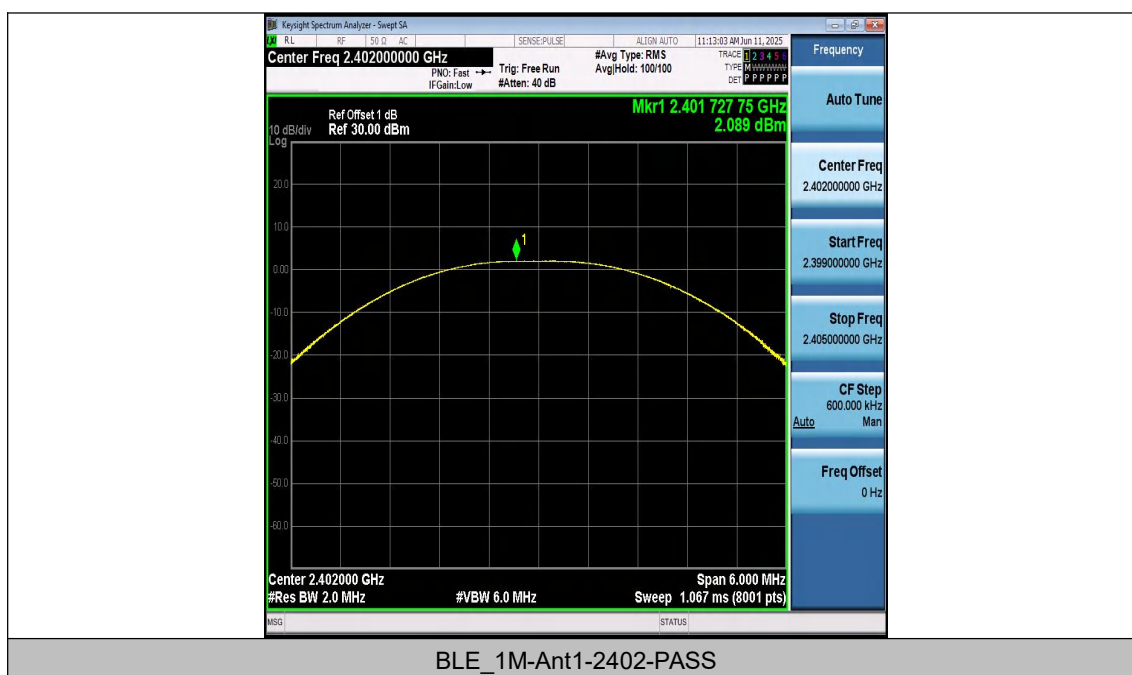
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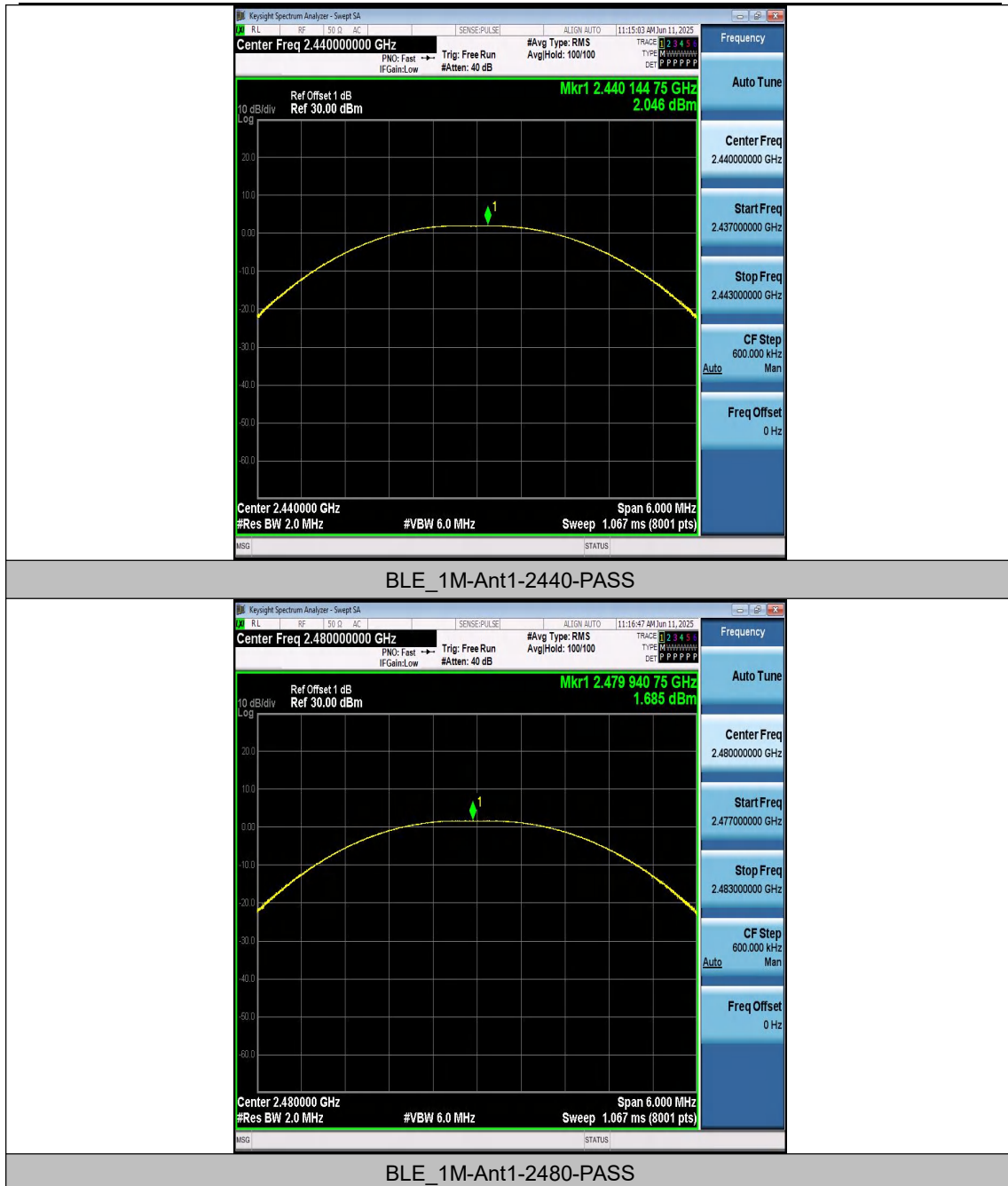
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.09	≤30	PASS
BLE_1M	Ant1	2440	2.05	≤30	PASS
BLE_1M	Ant1	2480	1.69	≤30	PASS
BLE_2M	Ant1	2402	2.07	≤30	PASS
BLE_2M	Ant1	2440	2.04	≤30	PASS
BLE_2M	Ant1	2480	1.75	≤30	PASS

Test Graphs Peak

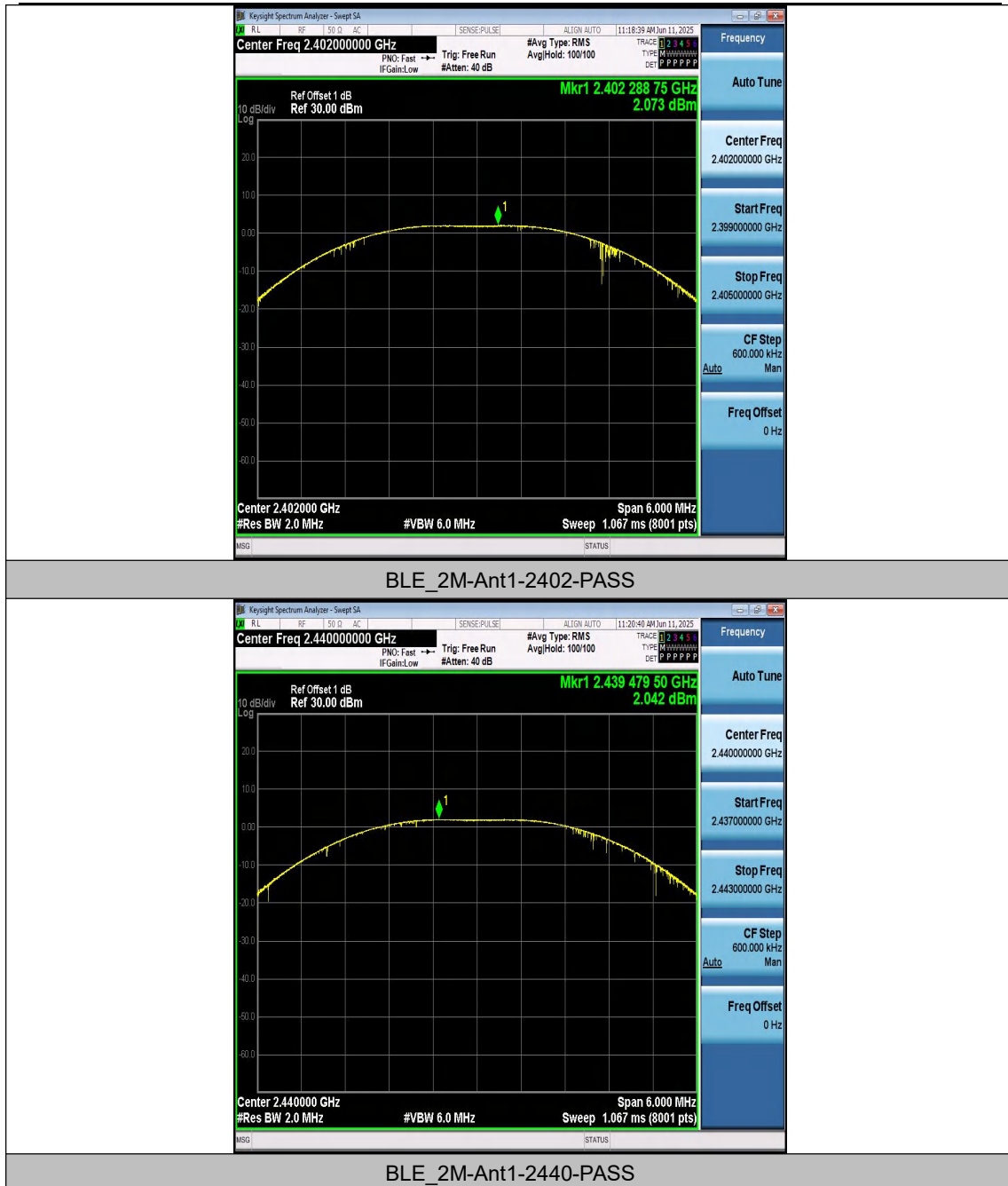




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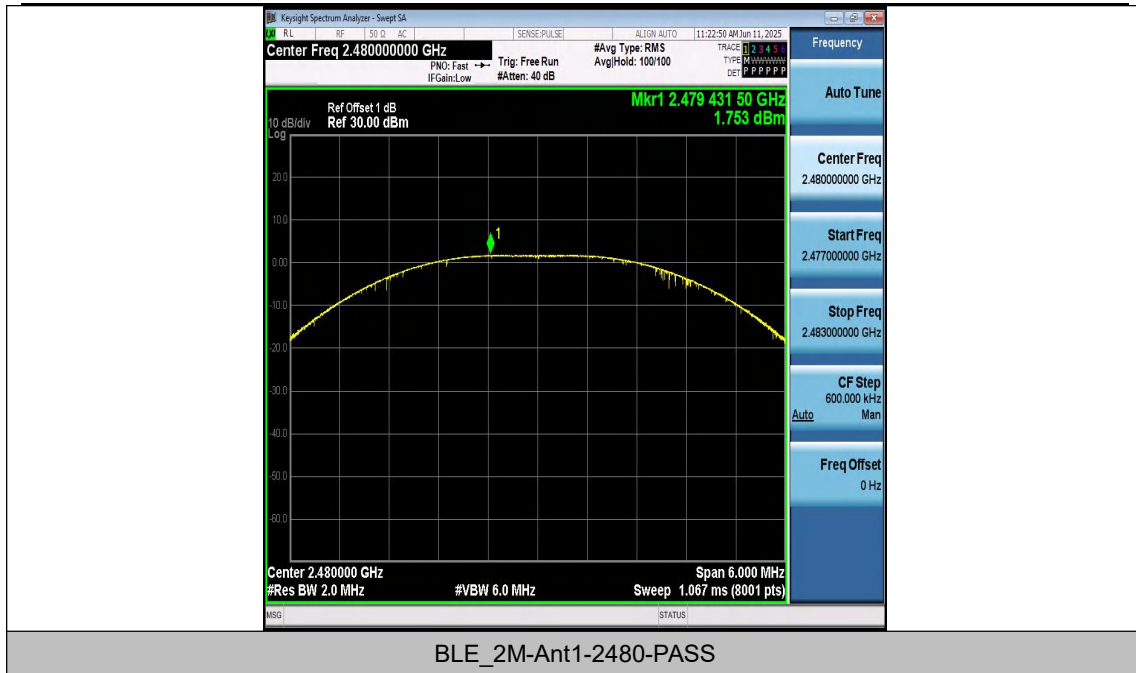
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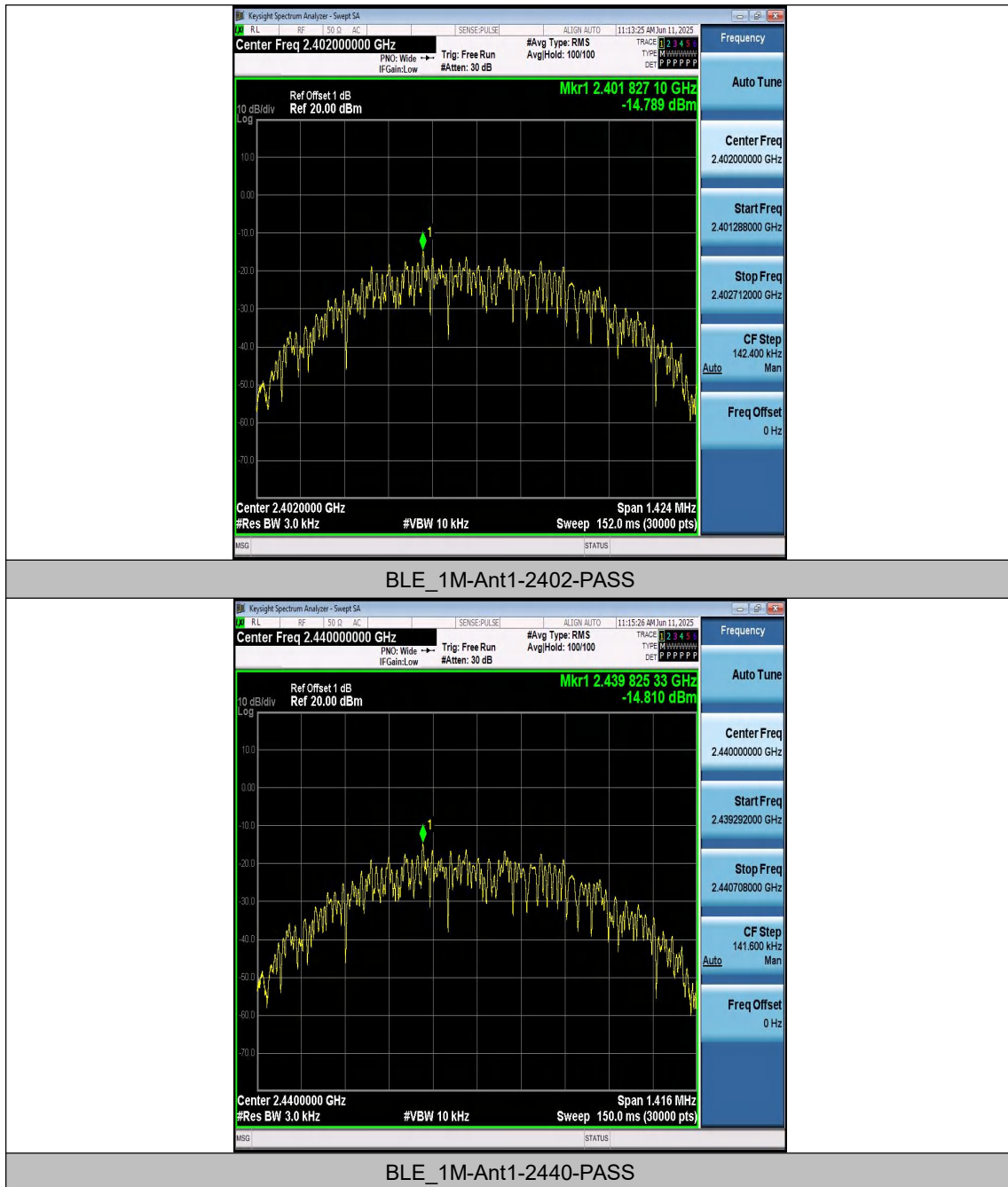
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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.79	≤8.00	PASS
BLE_1M	Ant1	2440	-14.81	≤8.00	PASS
BLE_1M	Ant1	2480	-15.11	≤8.00	PASS
BLE_2M	Ant1	2402	-20.31	≤8.00	PASS
BLE_2M	Ant1	2440	-20.35	≤8.00	PASS
BLE_2M	Ant1	2480	-20.65	≤8.00	PASS

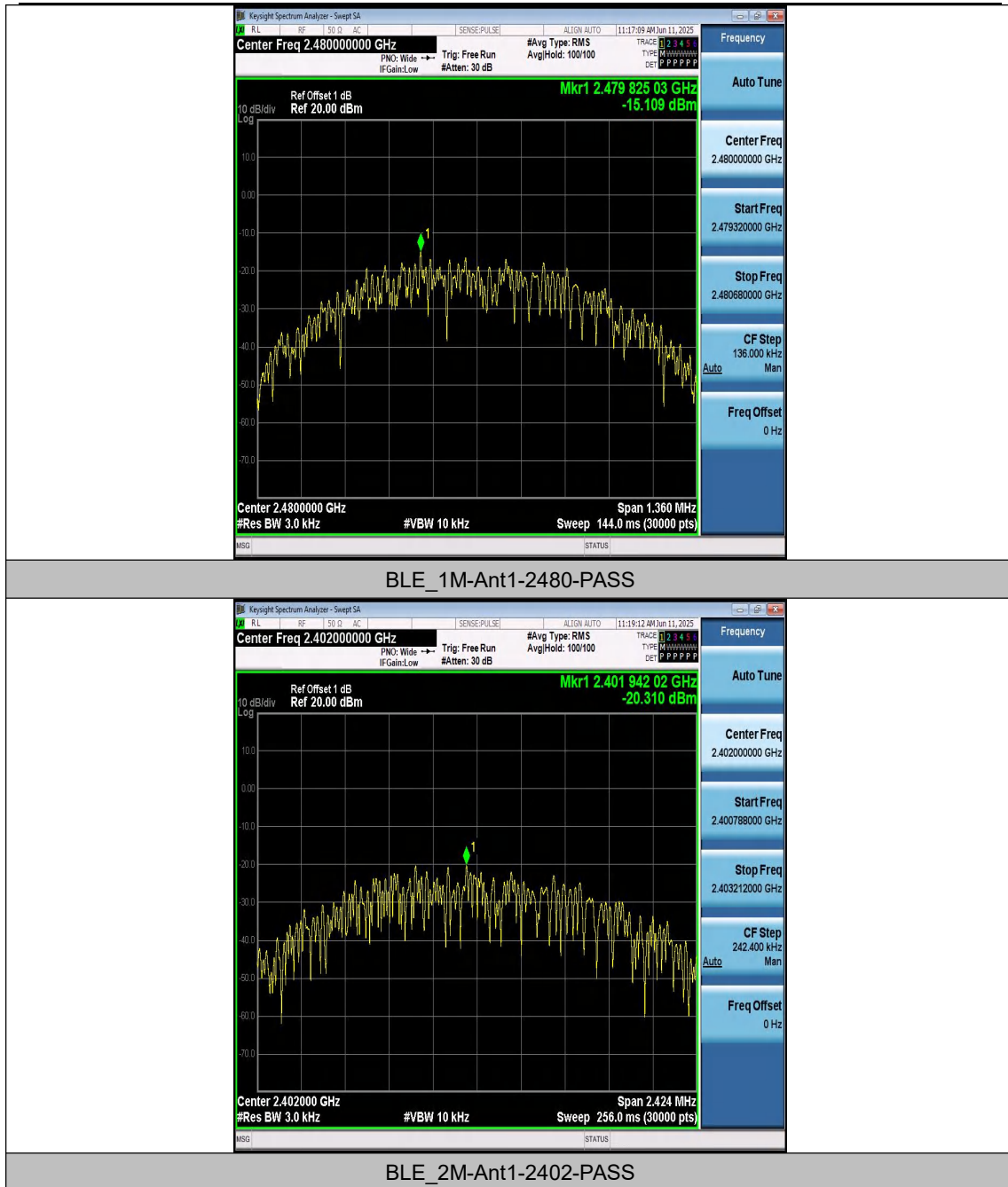
Test Graphs



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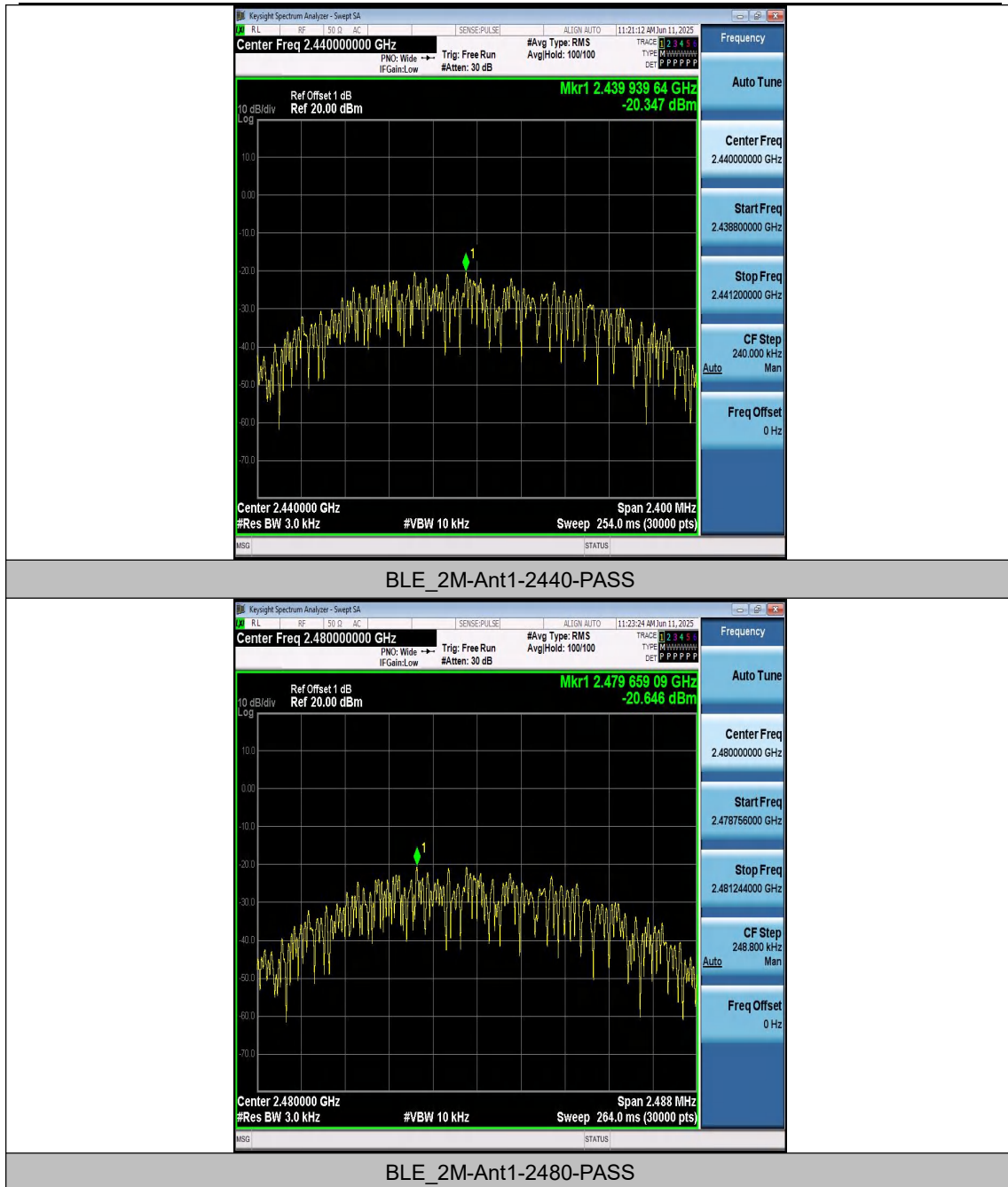
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Appendix E: Band edge measurements

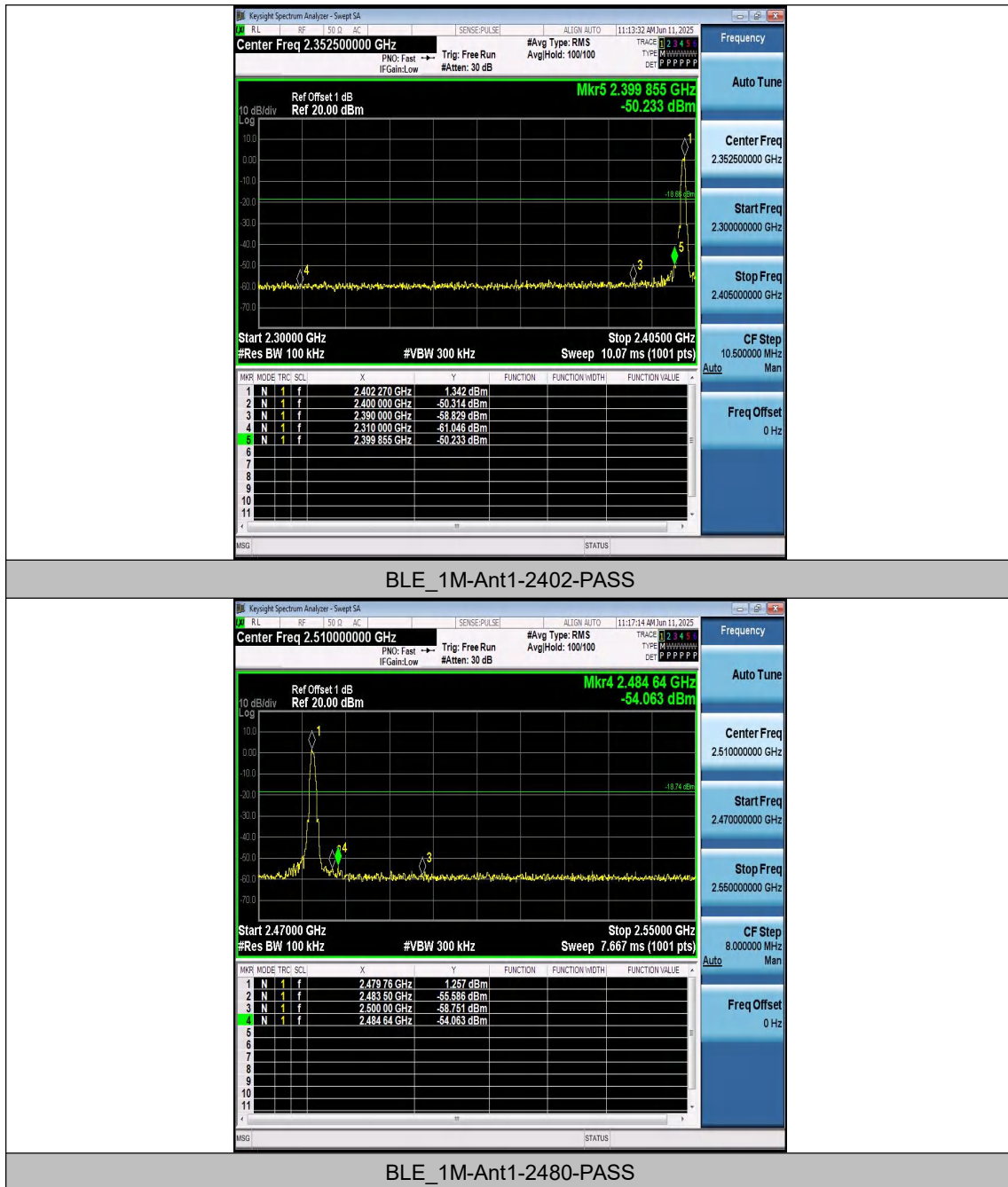
Test Result

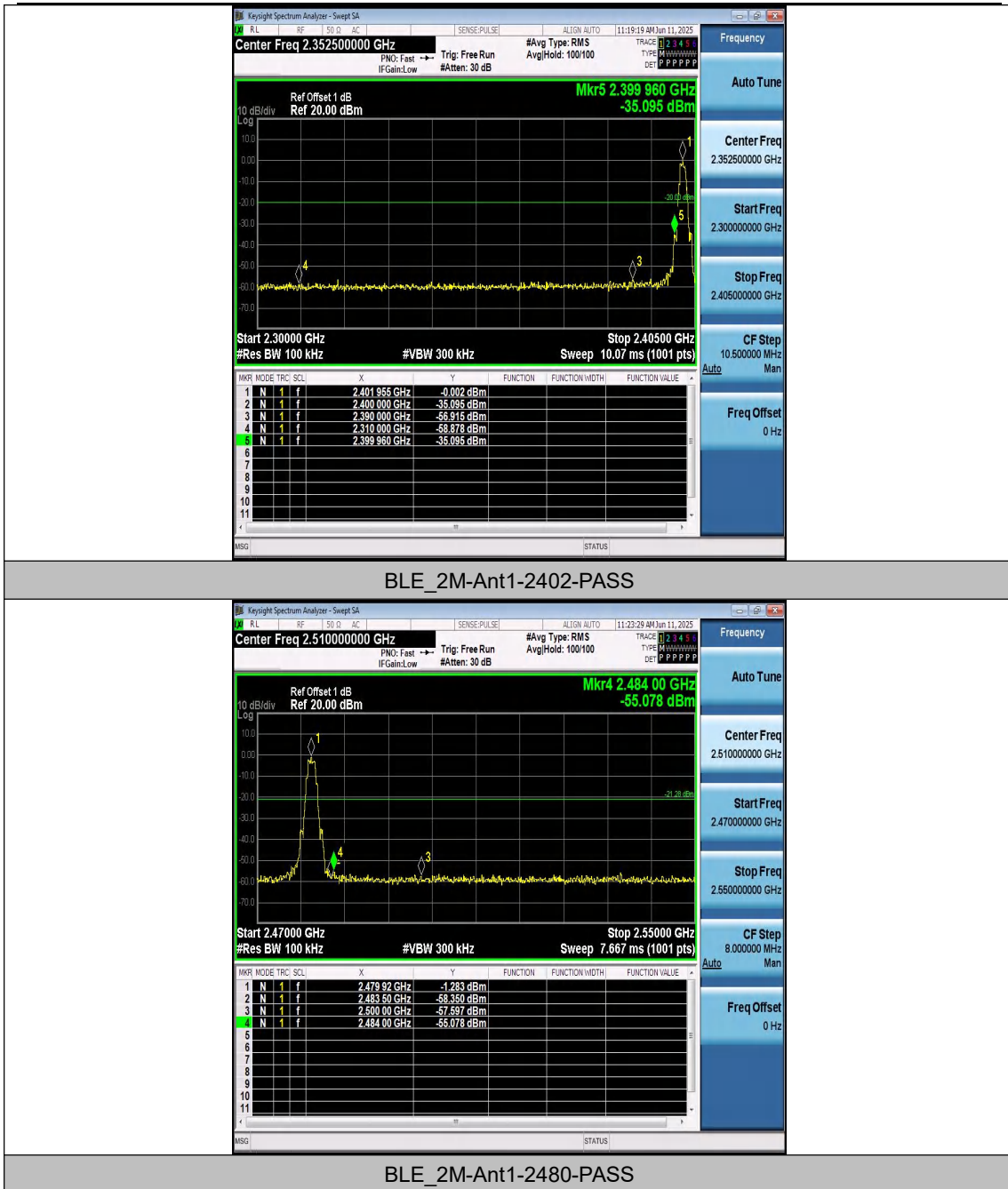
Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.34	-50.23	≤-18.66	PASS
BLE_1M	Ant1	High	2480	1.26	-54.06	≤-18.74	PASS
BLE_2M	Ant1	Low	2402	0.00	-35.1	≤-20	PASS
BLE_2M	Ant1	High	2480	-1.28	-55.08	≤-21.28	PASS

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

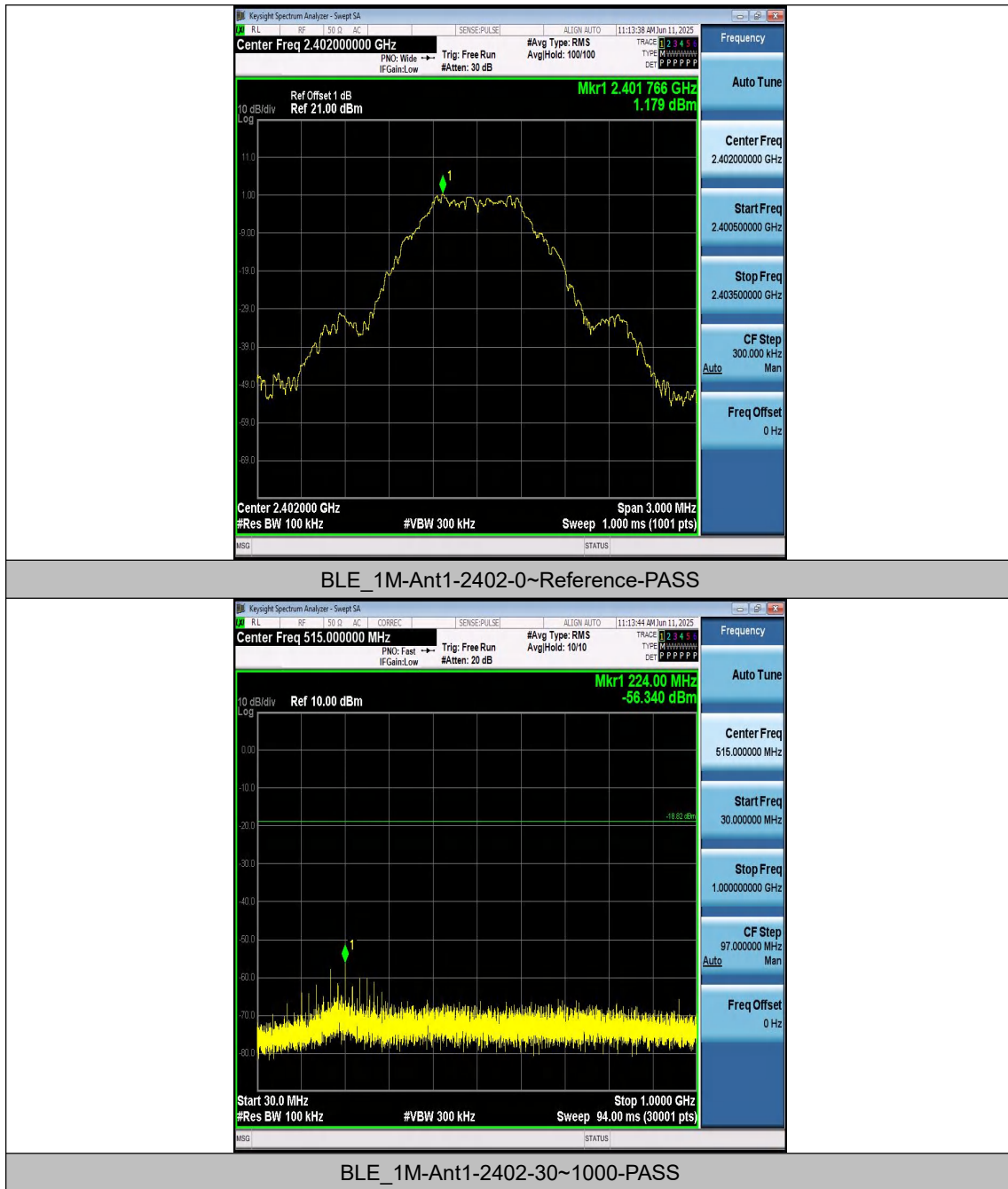
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	1.18	1.18	---	PASS
BLE_1M	Ant1	2402	30~1000	1.18	-56.34	≤-18.82	PASS
BLE_1M	Ant1	2402	1000~26500	1.18	-52.1	≤-18.82	PASS
BLE_1M	Ant1	2440	0~Reference	1.25	1.25	---	PASS
BLE_1M	Ant1	2440	30~1000	1.25	-57.88	≤-18.75	PASS
BLE_1M	Ant1	2440	1000~26500	1.25	-52.66	≤-18.75	PASS
BLE_1M	Ant1	2480	0~Reference	0.98	0.98	---	PASS
BLE_1M	Ant1	2480	30~1000	0.98	-58.46	≤-19.02	PASS
BLE_1M	Ant1	2480	1000~26500	0.98	-53.64	≤-19.02	PASS
BLE_2M	Ant1	2402	0~Reference	0.11	0.11	---	PASS
BLE_2M	Ant1	2402	30~1000	0.11	-56.12	≤-19.89	PASS
BLE_2M	Ant1	2402	1000~26500	0.11	-52.85	≤-19.89	PASS
BLE_2M	Ant1	2440	0~Reference	0.10	0.10	---	PASS
BLE_2M	Ant1	2440	30~1000	0.10	-58.76	≤-19.9	PASS
BLE_2M	Ant1	2440	1000~26500	0.10	-52.76	≤-19.9	PASS
BLE_2M	Ant1	2480	0~Reference	-0.27	-0.27	---	PASS
BLE_2M	Ant1	2480	30~1000	-0.27	-58.07	≤-20.27	PASS
BLE_2M	Ant1	2480	1000~26500	-0.27	-53.12	≤-20.27	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.



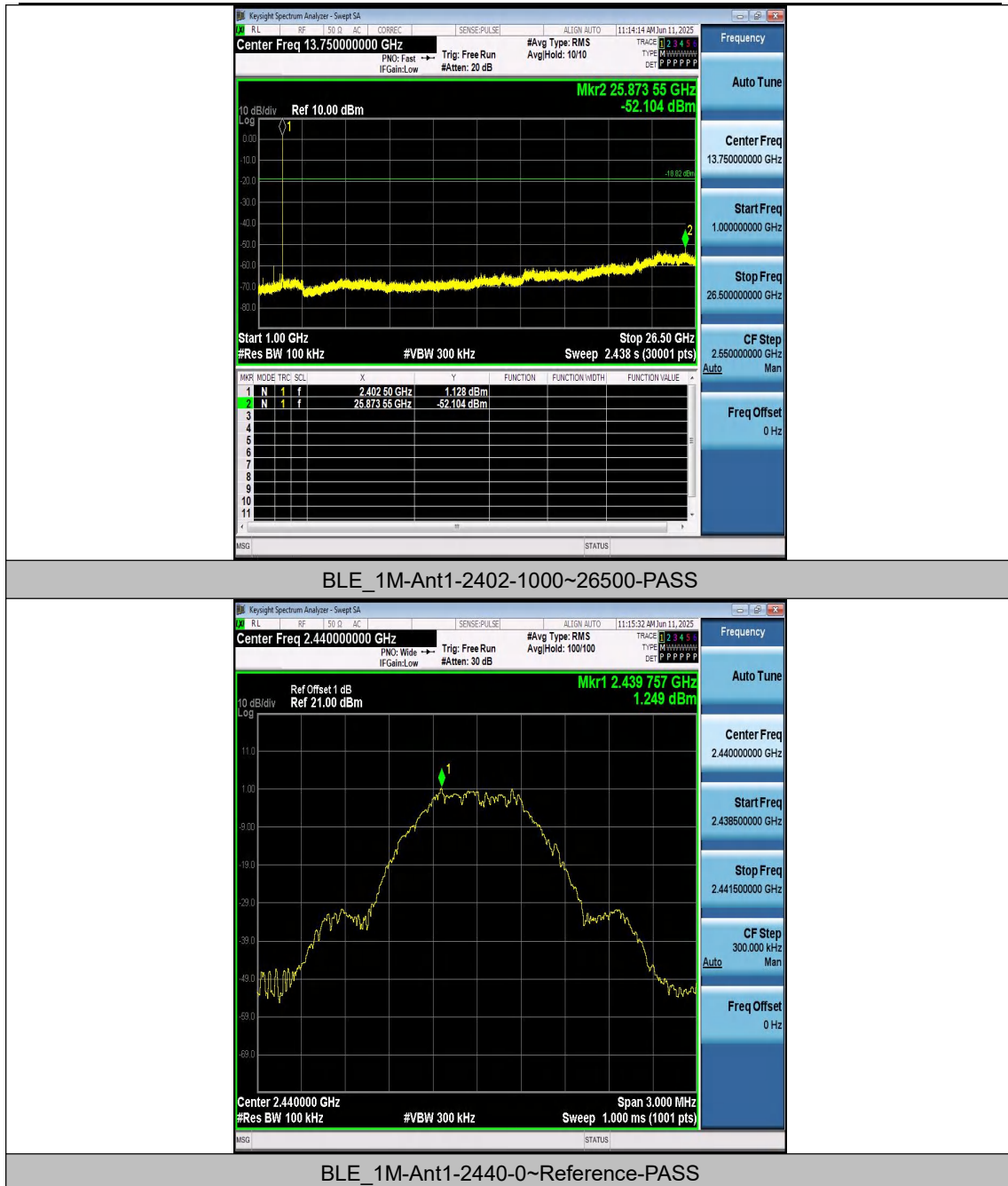
Test Graphs

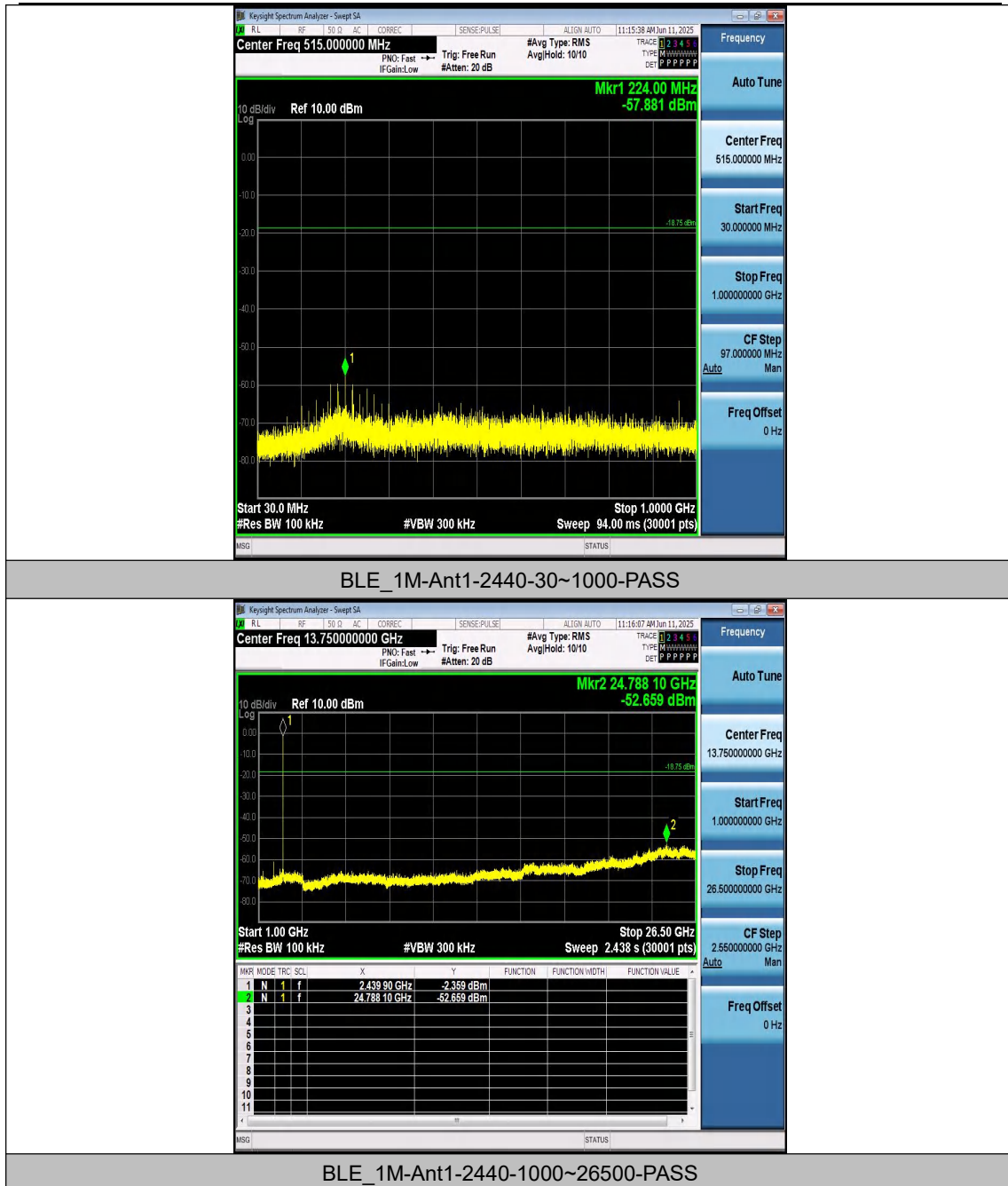


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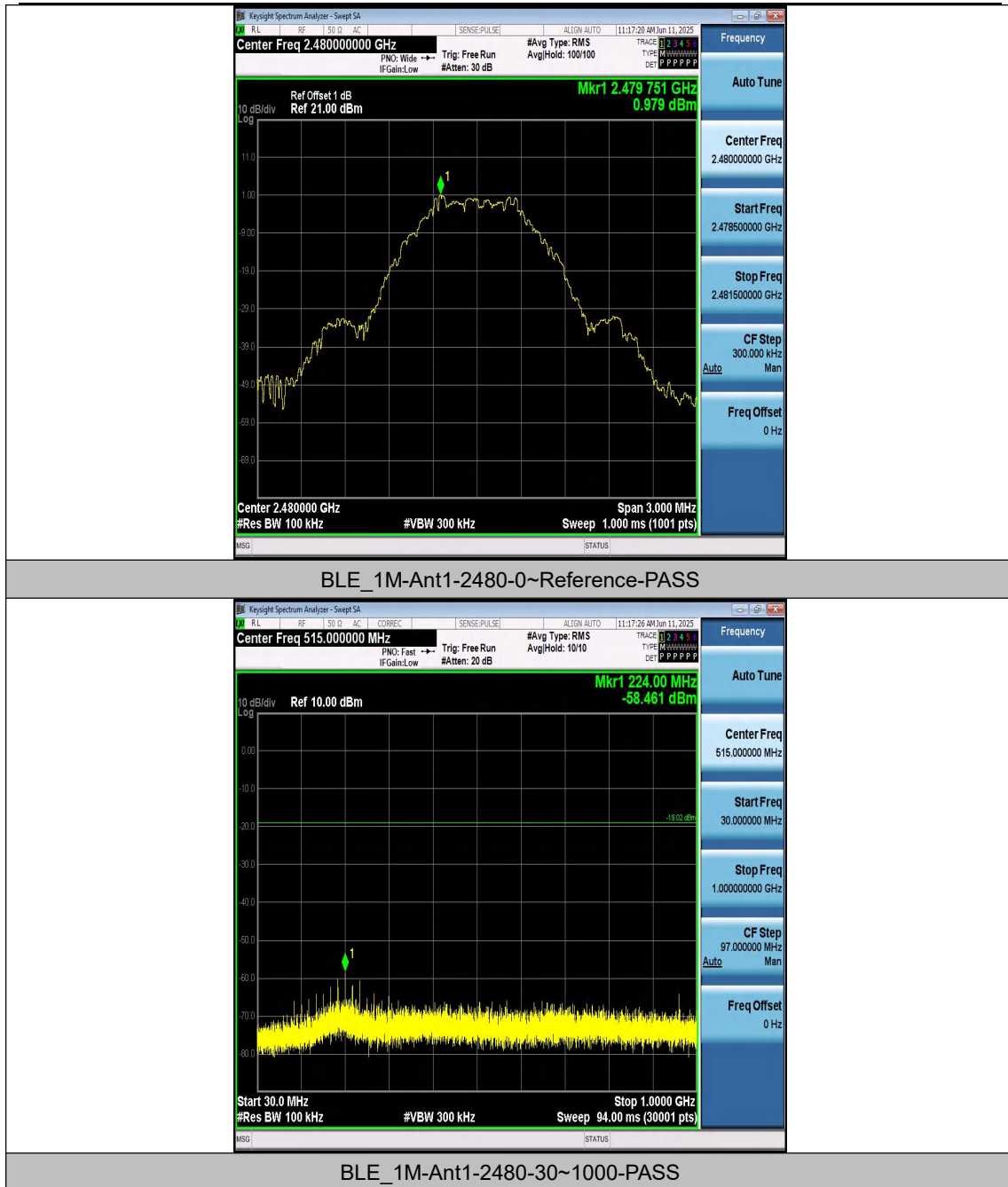




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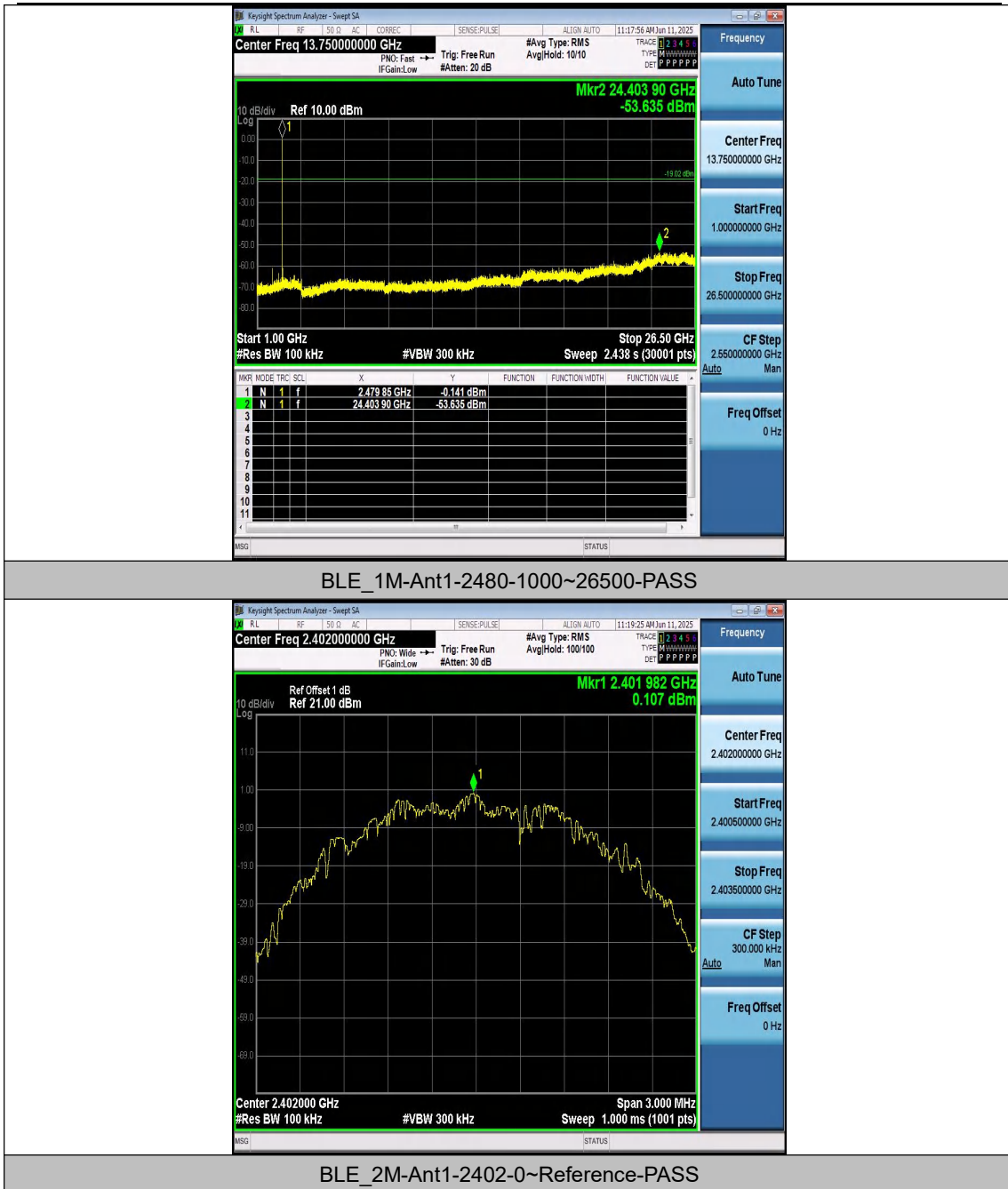
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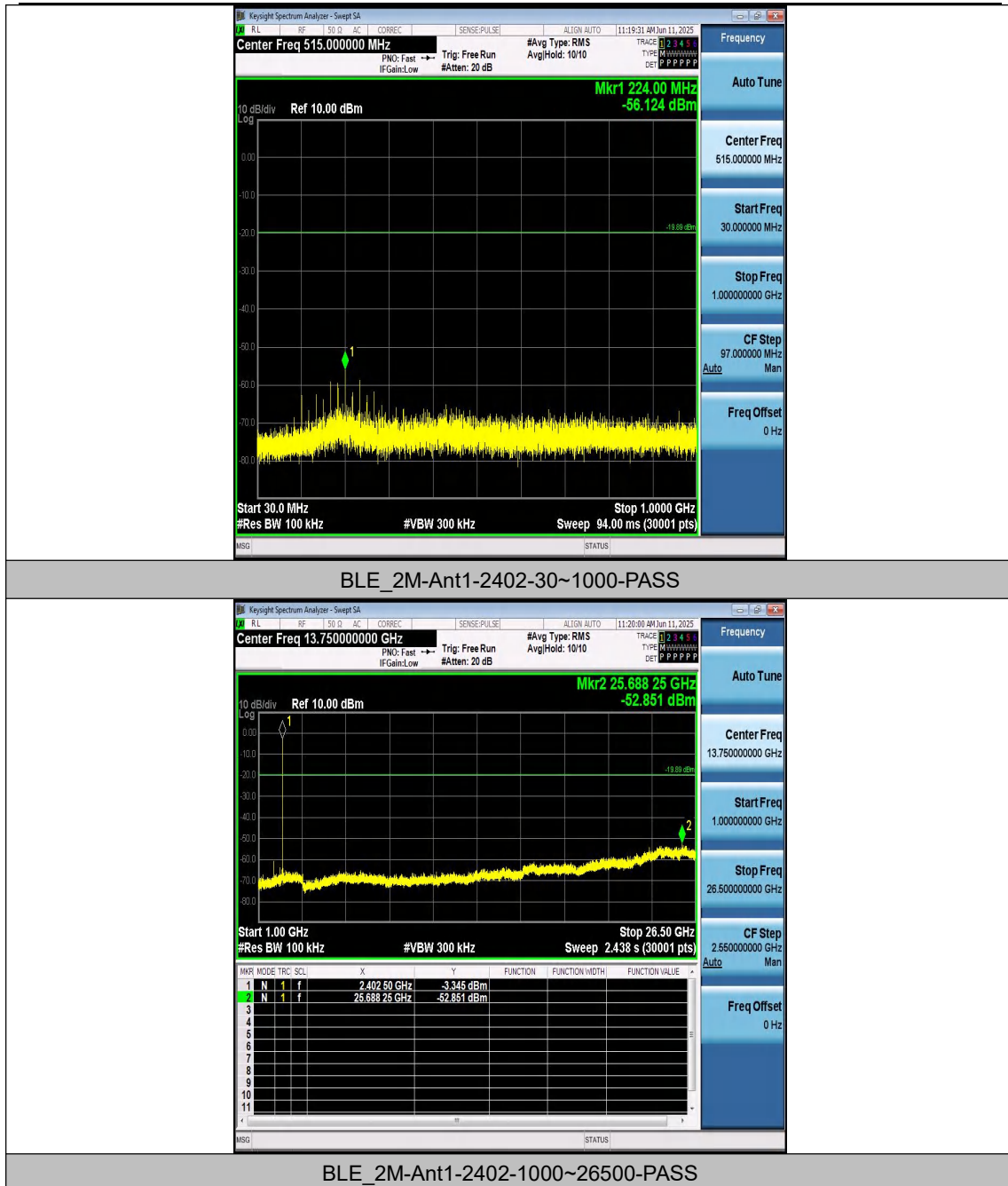
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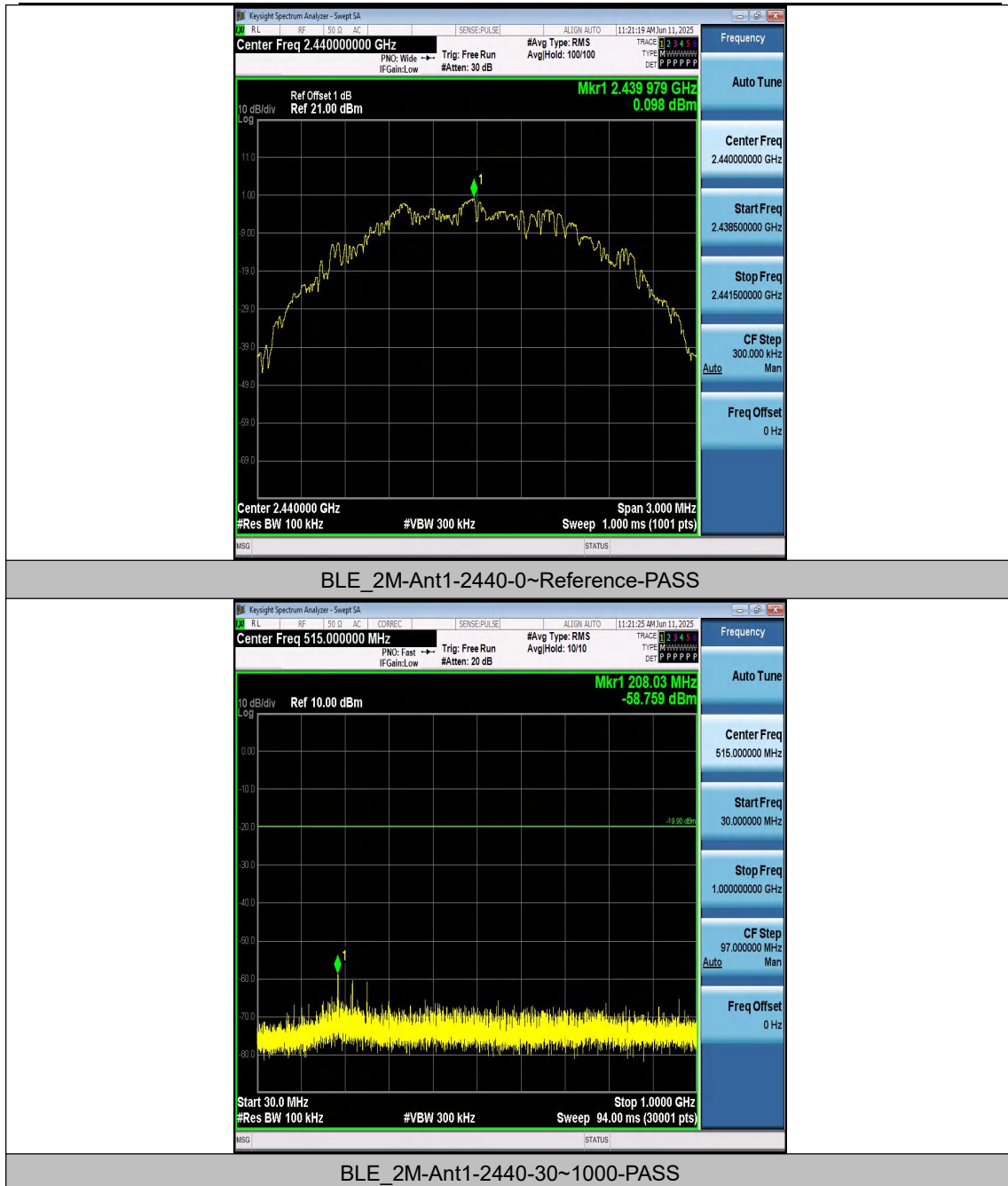
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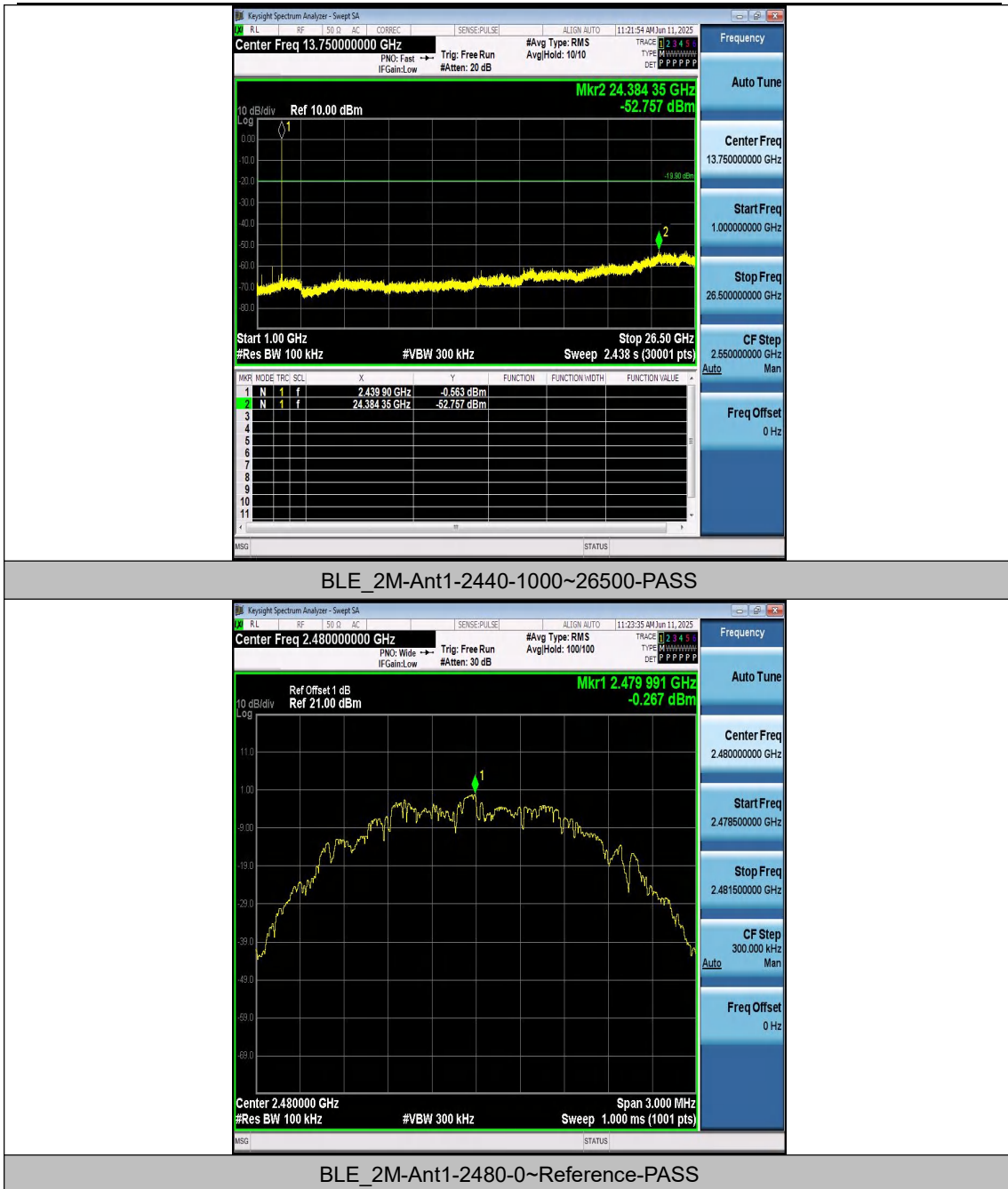
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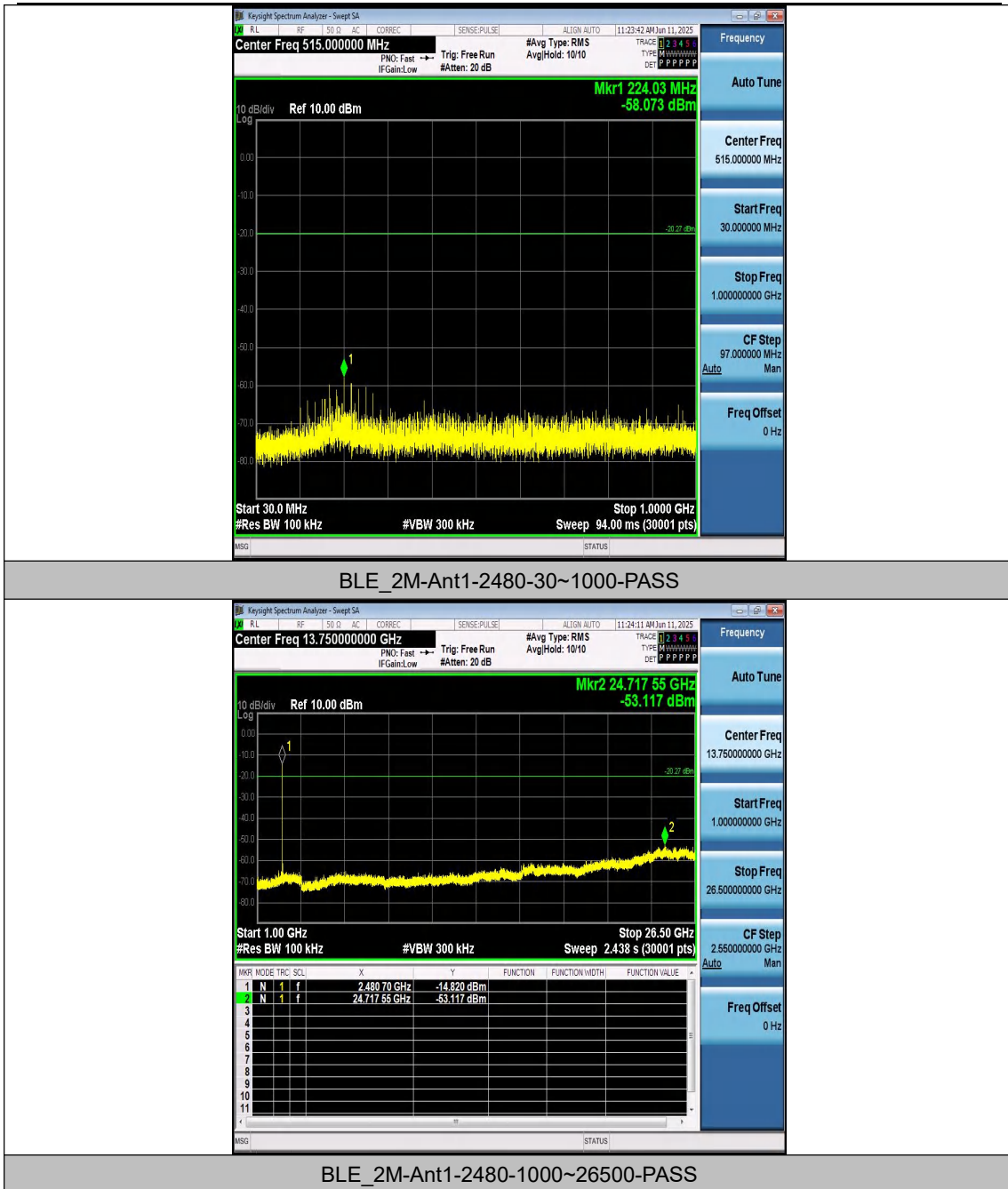
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Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.17	0.62	27.42	5.62
BLE_1M	Ant1	2440	0.16	0.62	25.81	5.88
BLE_1M	Ant1	2480	0.18	0.64	28.13	5.51
BLE_2M	Ant1	2402	0.10	0.62	16.13	7.92
BLE_2M	Ant1	2440	0.10	0.63	15.87	7.99
BLE_2M	Ant1	2480	0.10	0.63	15.87	7.99

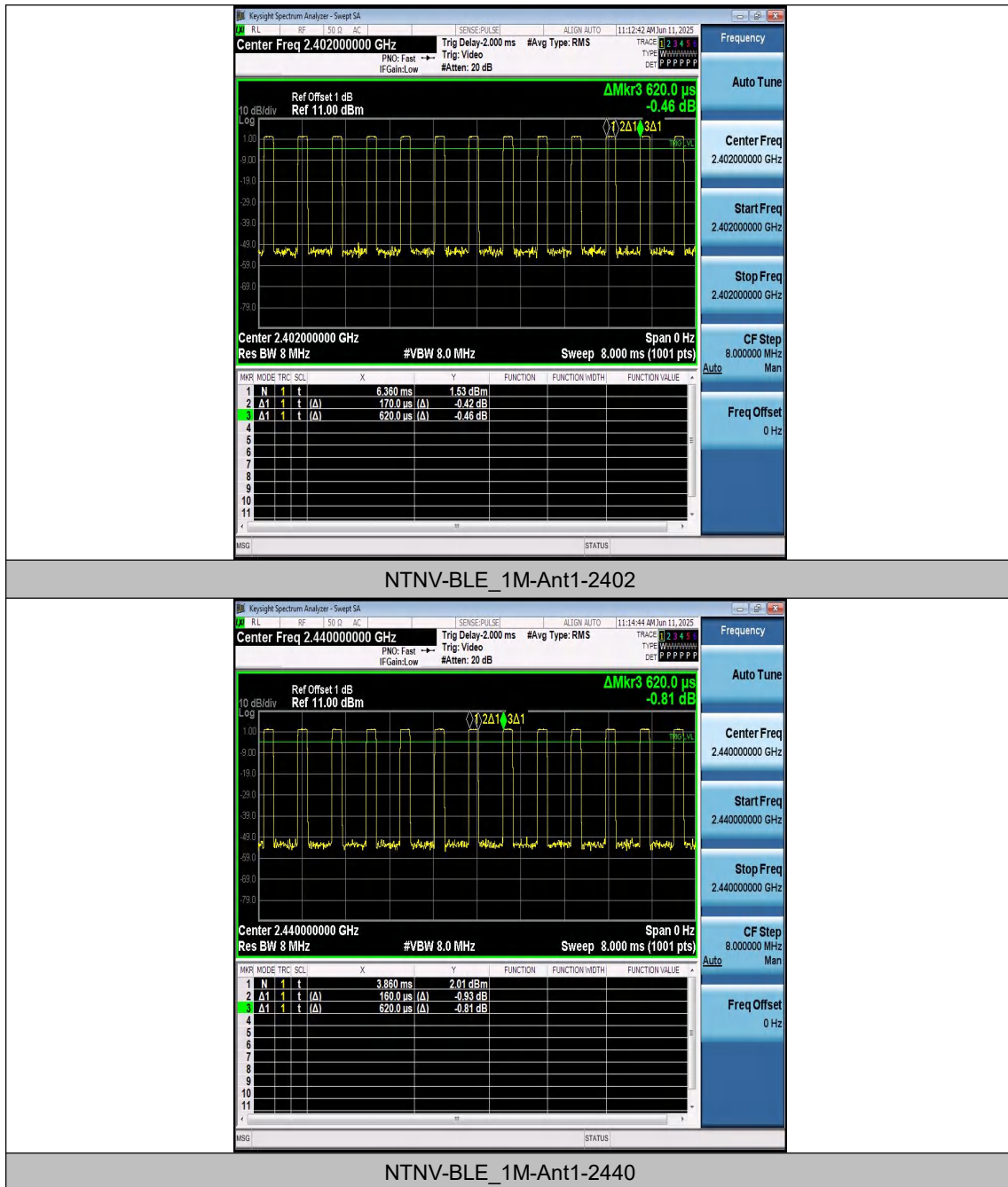
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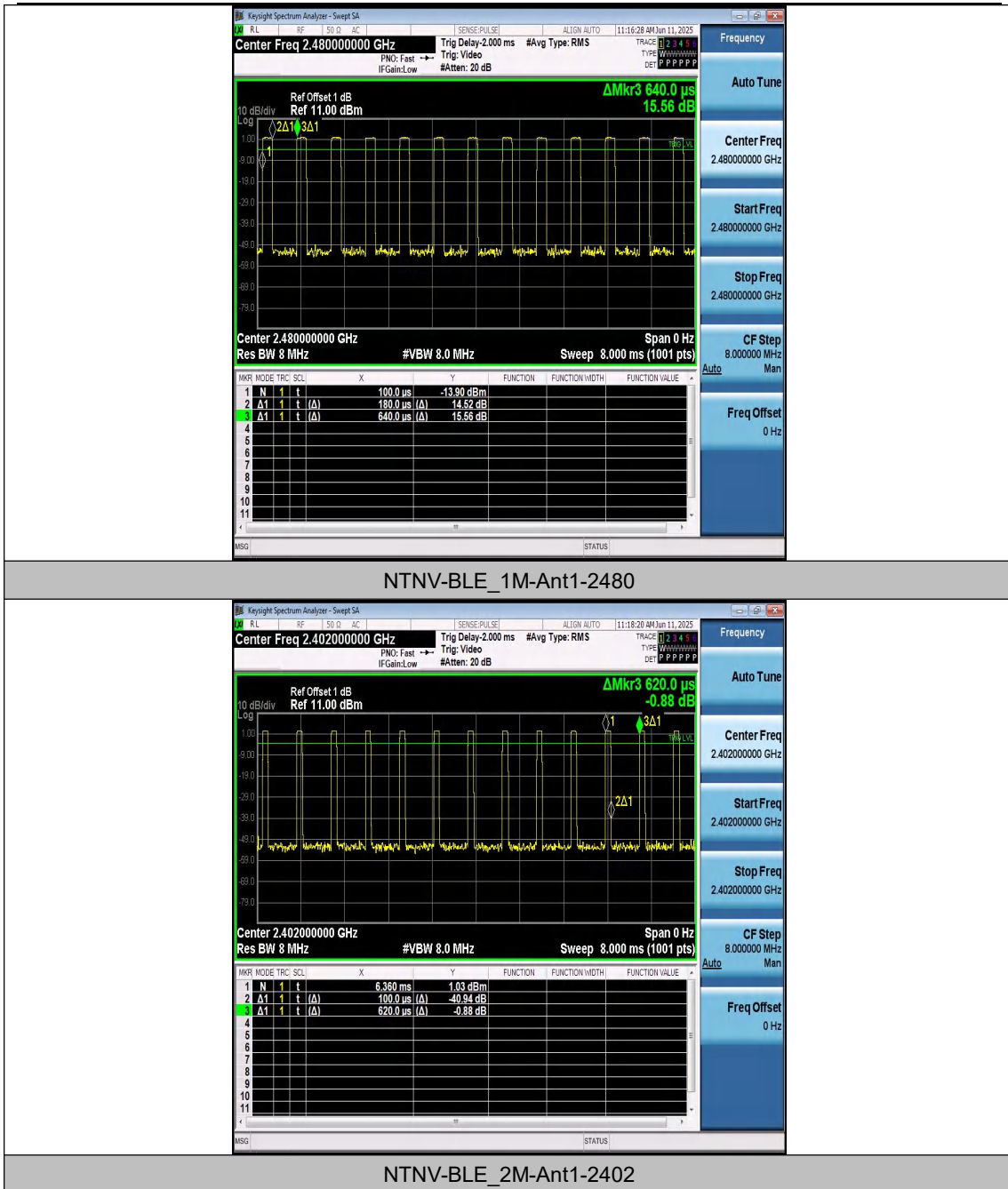
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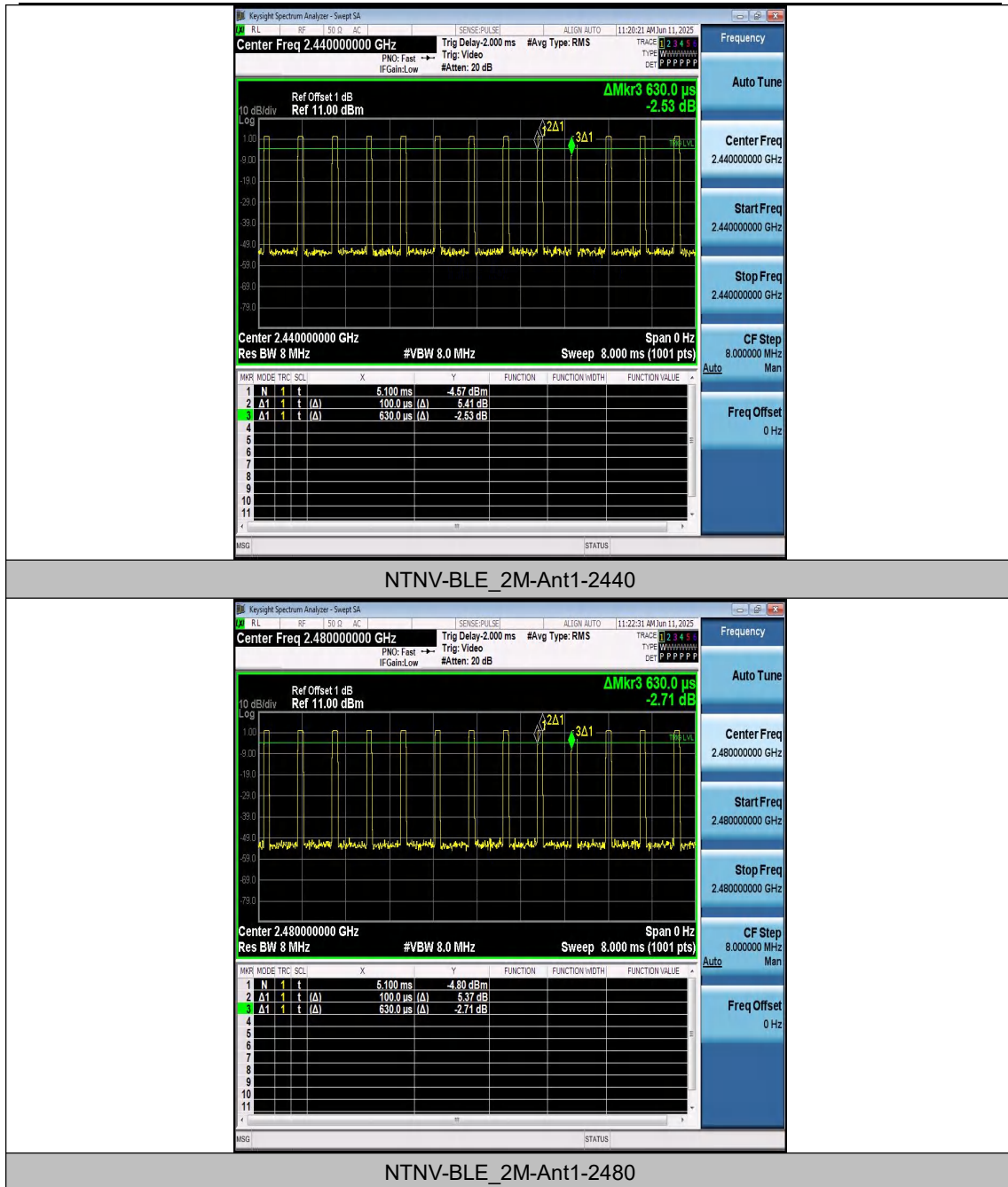


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Test Graphs







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