

Appendix Test Data

Report No.:	1825C50006812501	Test Sample No.:	1-2-2
Start Test Date:	2025-05-24	Finish Test Date:	2025-05-24
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25°C	Relative Humidity:	45%
Pressure:	101kPa		

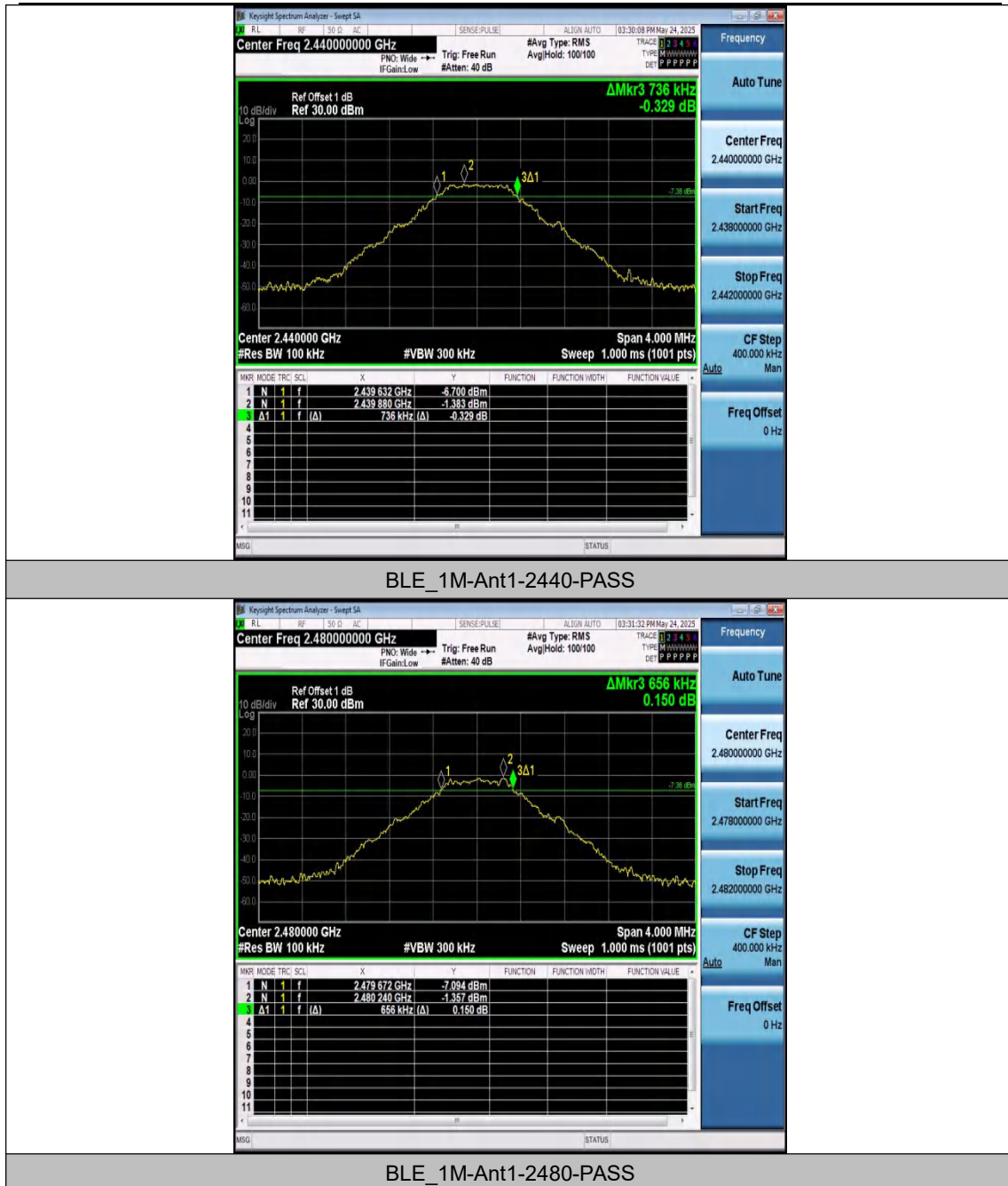
Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.704	2401.664	2402.368	0.5	PASS
BLE_1M	Ant1	2440	0.736	2439.632	2440.368	0.5	PASS
BLE_1M	Ant1	2480	0.656	2479.672	2480.328	0.5	PASS

Test Graphs



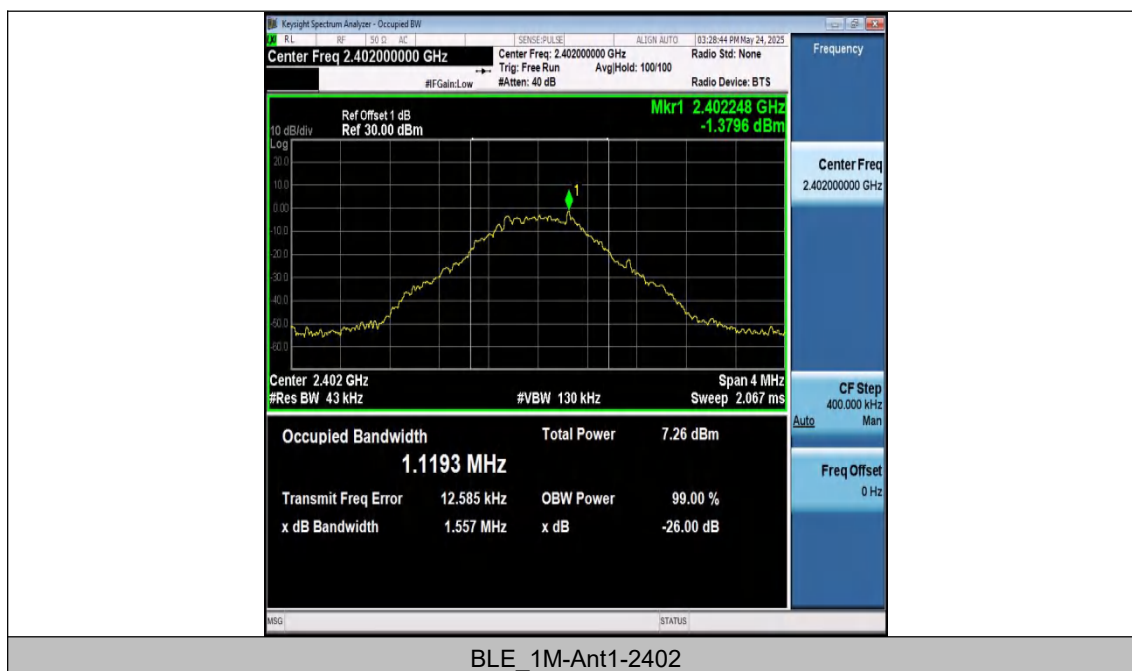


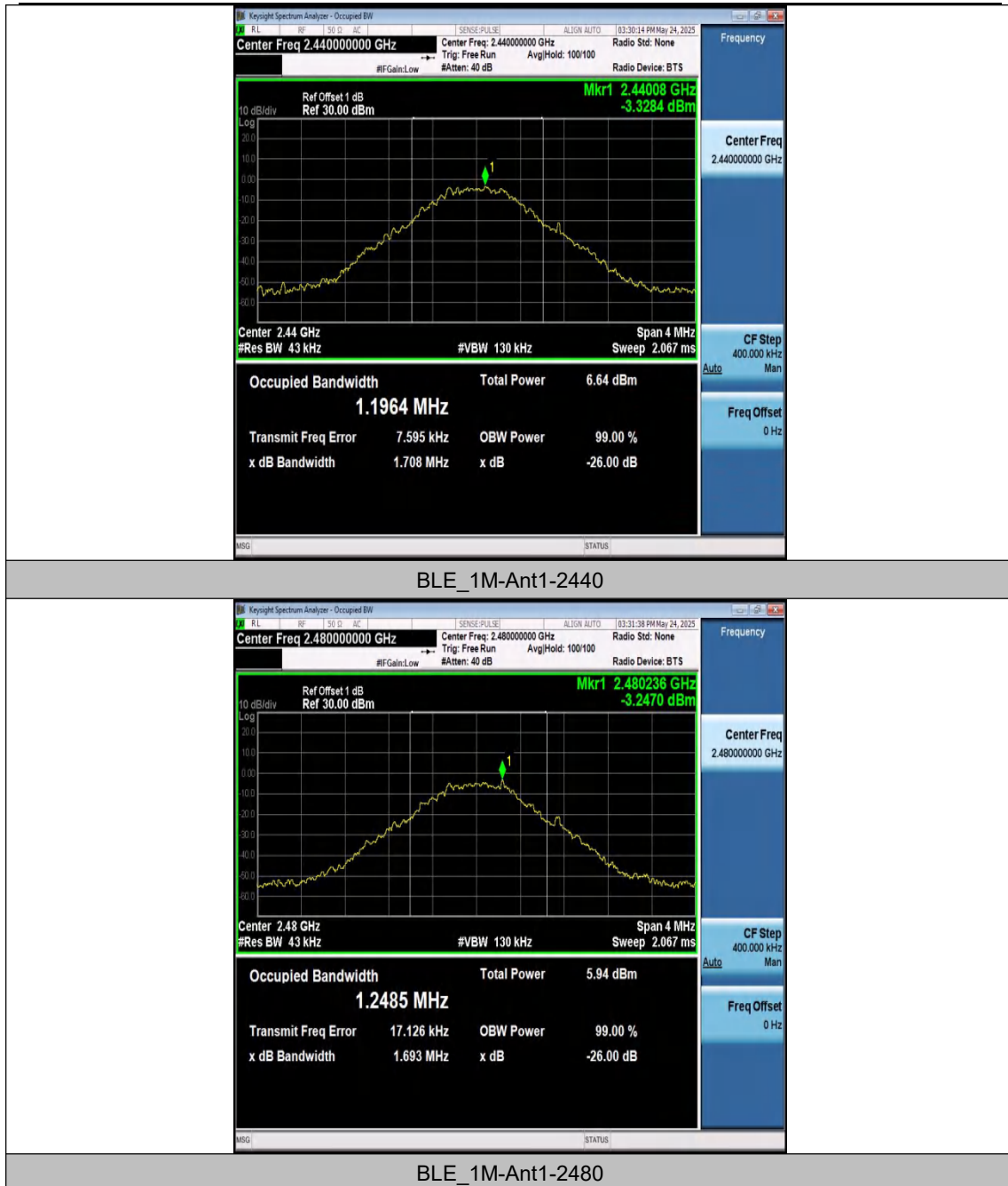
Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.1193	2401.4529	2402.5722	---	---
BLE_1M	Ant1	2440	1.1964	2439.4094	2440.6058	---	---
BLE_1M	Ant1	2480	1.2485	2479.3929	2480.6414	---	---

Test Graphs



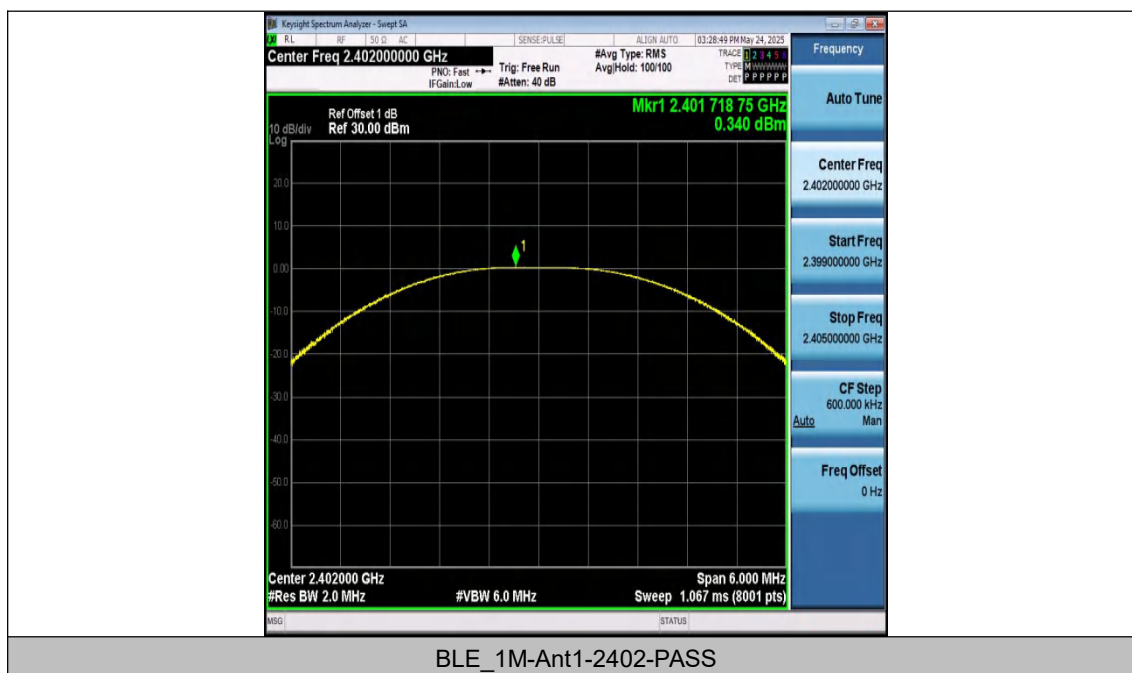


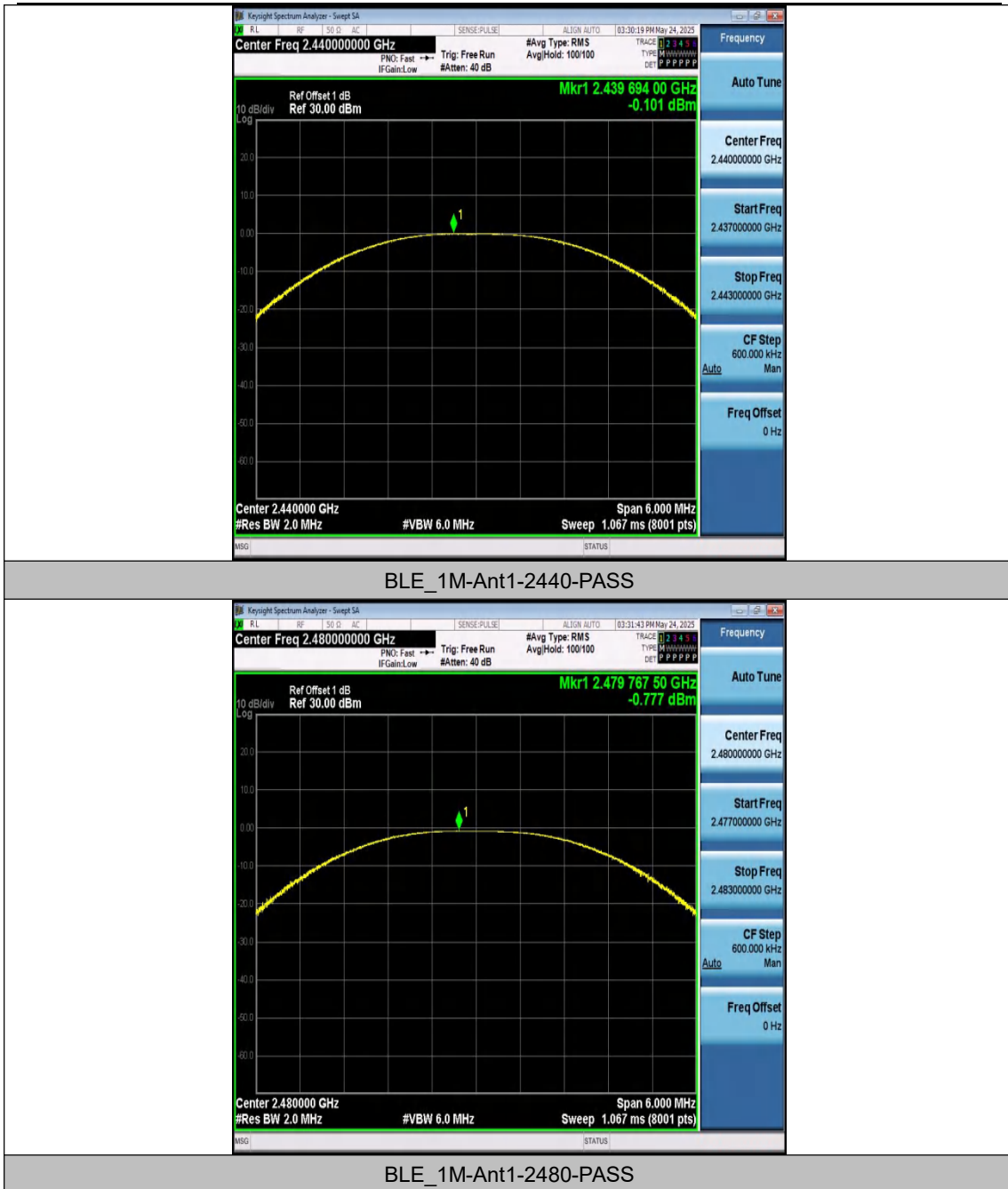
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.34	≤30	PASS
BLE_1M	Ant1	2440	-0.10	≤30	PASS
BLE_1M	Ant1	2480	-0.78	≤30	PASS

Test Graphs Peak





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Appendix D: Maximum power spectral density

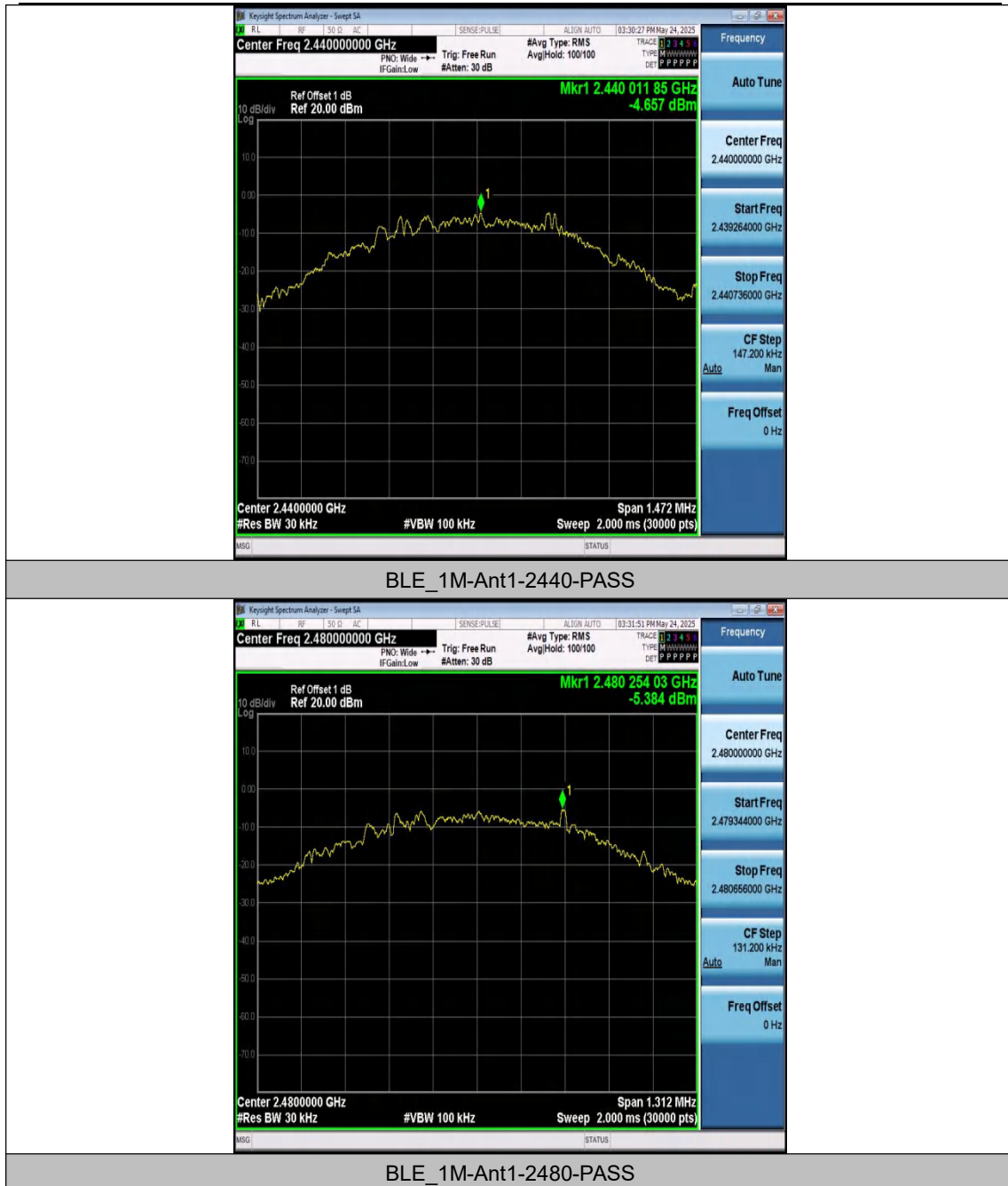
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-3.96	-13.96	≤8.00	PASS
BLE_1M	Ant1	2440	-4.66	-14.66	≤8.00	PASS
BLE_1M	Ant1	2480	-5.38	-15.38	≤8.00	PASS

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

Test Graphs





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Appendix E: Band edge measurements

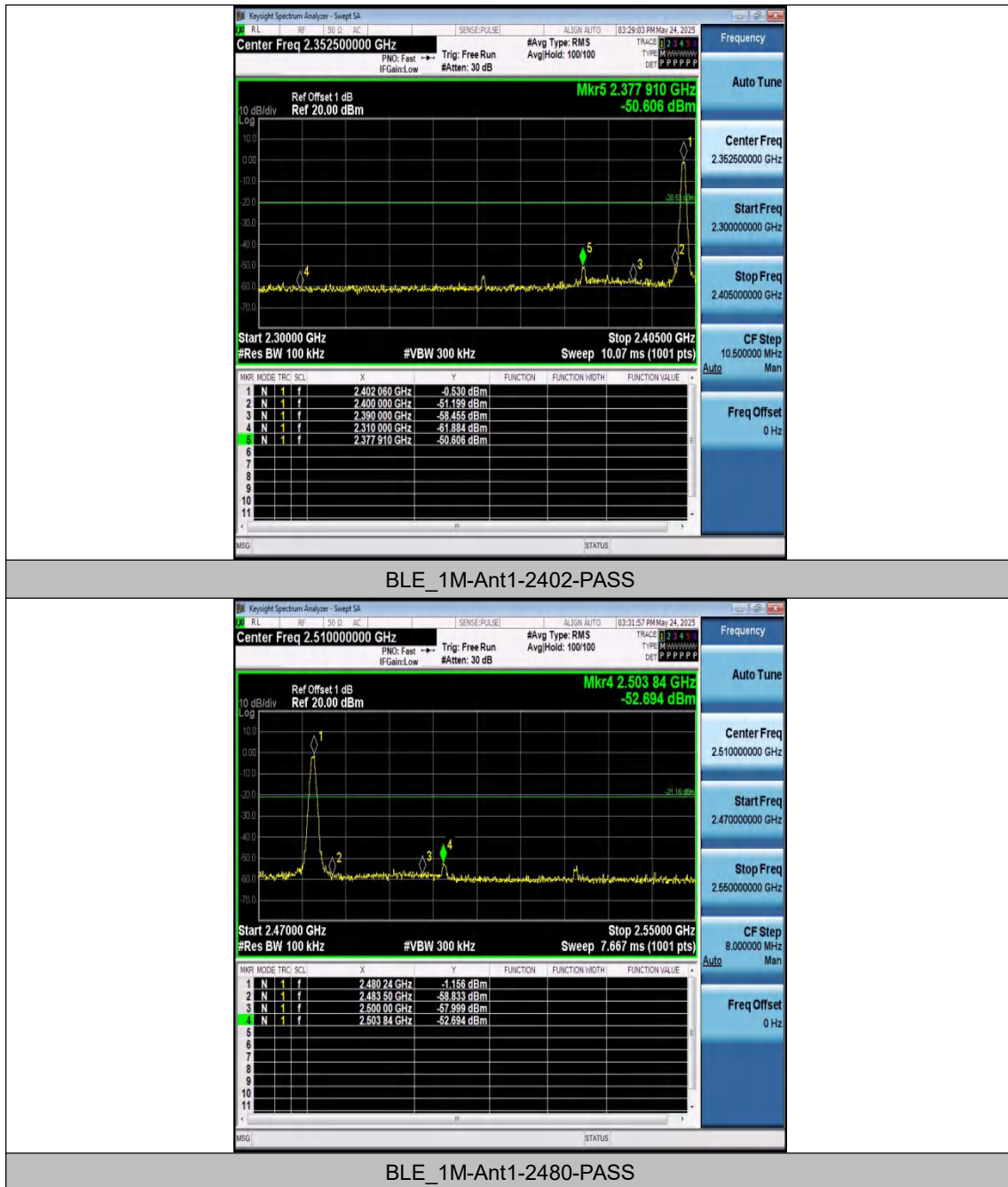
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.53	-50.61	≤-20.53	PASS
BLE_1M	Ant1	High	2480	-1.16	-52.69	≤-21.16	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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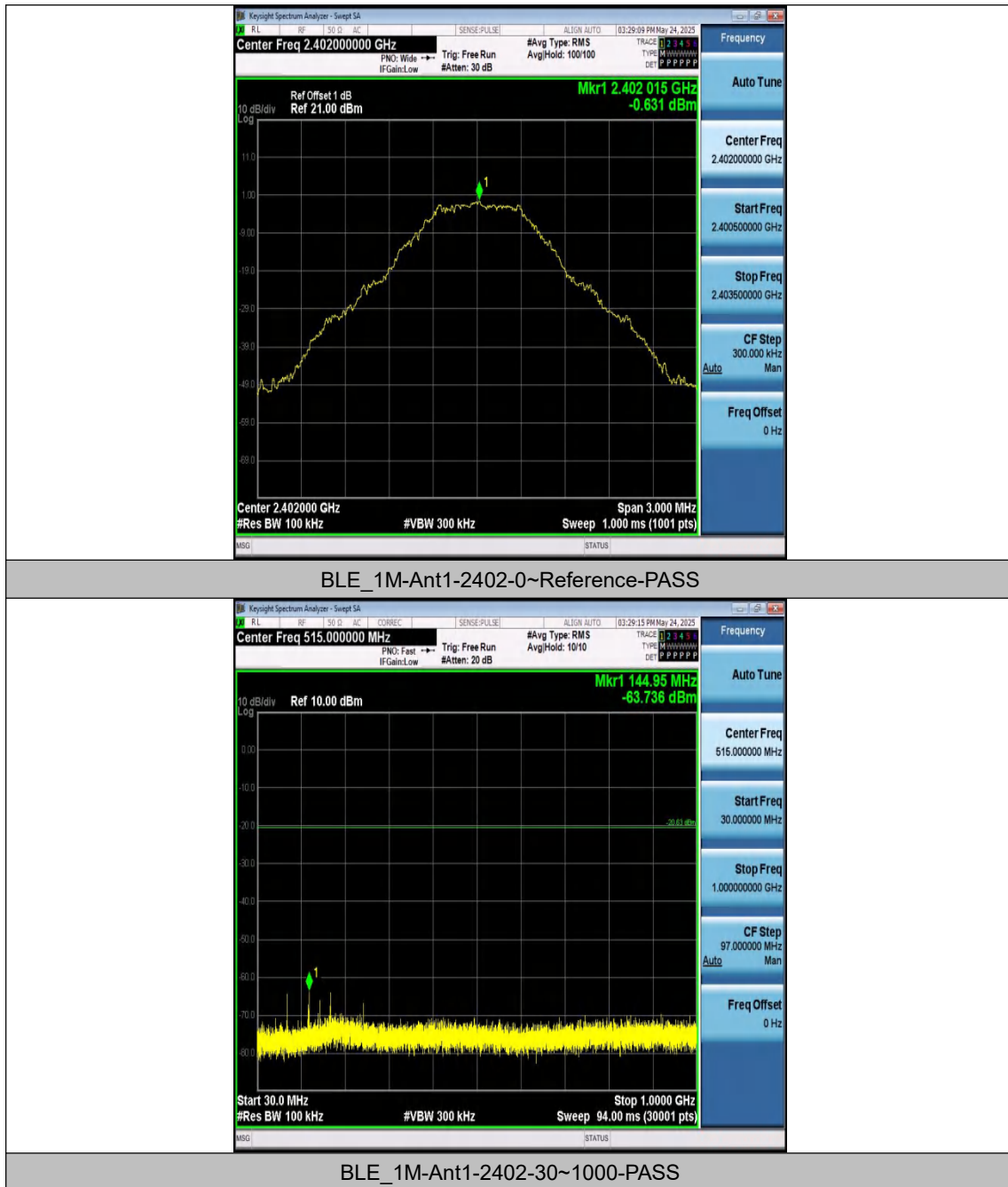
Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.63	-0.63	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.63	-63.74	≤-20.63	PASS
BLE_1M	Ant1	2402	1000~26500	-0.63	-43.78	≤-20.63	PASS
BLE_1M	Ant1	2440	0~Reference	-0.52	-0.52	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.52	-61.73	≤-20.52	PASS
BLE_1M	Ant1	2440	1000~26500	-0.52	-40.89	≤-20.52	PASS
BLE_1M	Ant1	2480	0~Reference	-1.91	-1.91	---	PASS
BLE_1M	Ant1	2480	30~1000	-1.91	-64.22	≤-21.91	PASS
BLE_1M	Ant1	2480	1000~26500	-1.91	-40.3	≤-21.91	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.

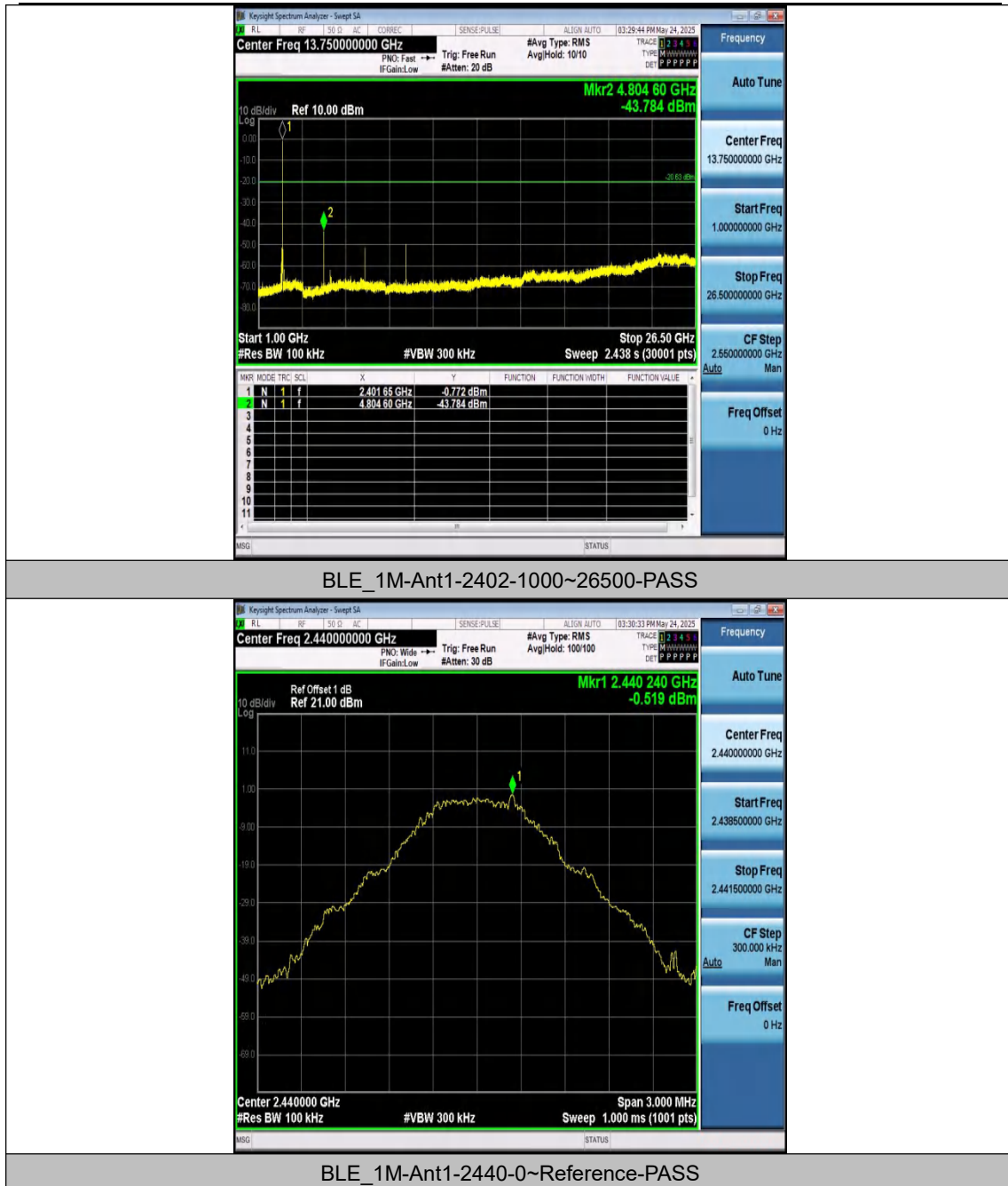
Test Graphs



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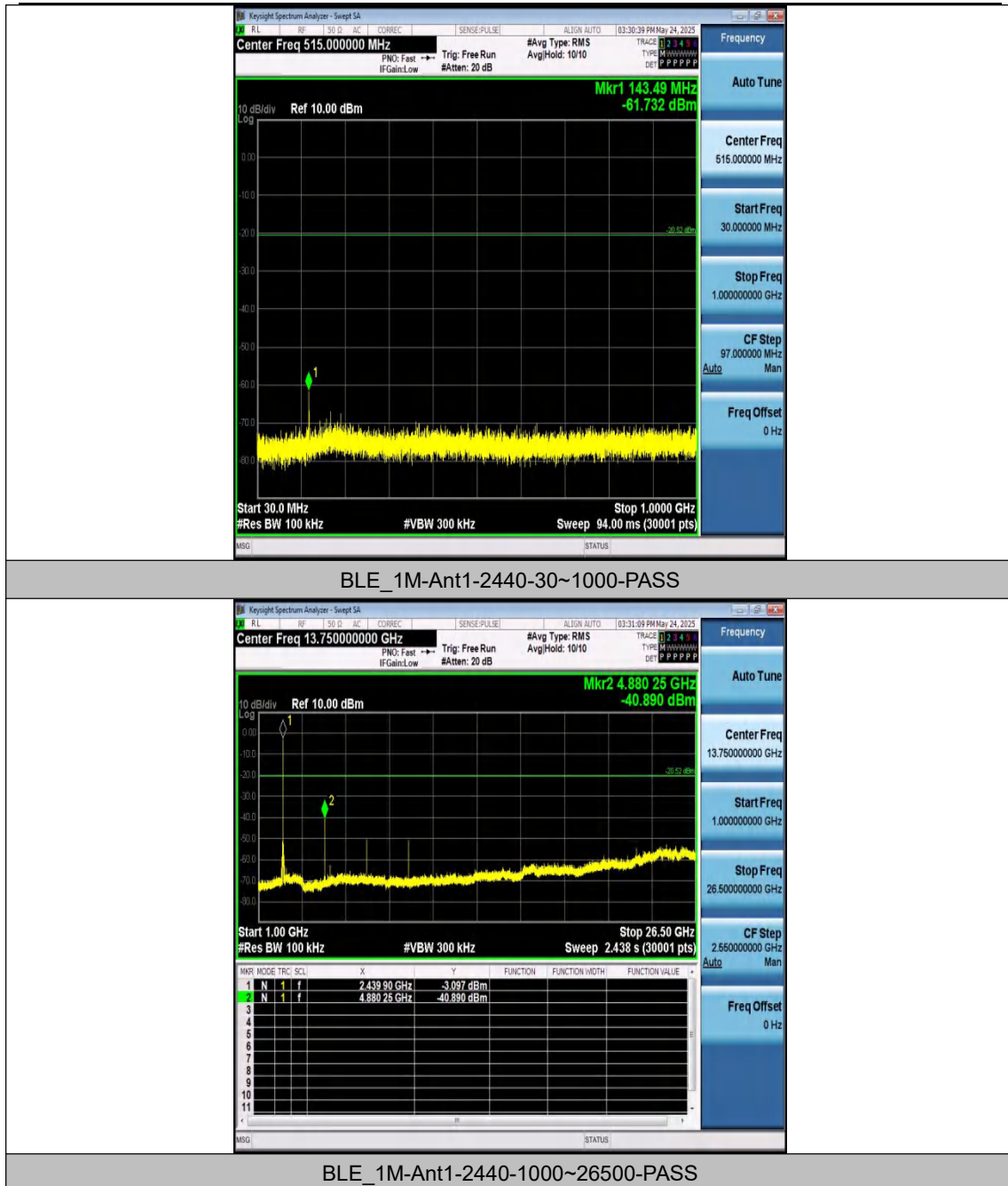
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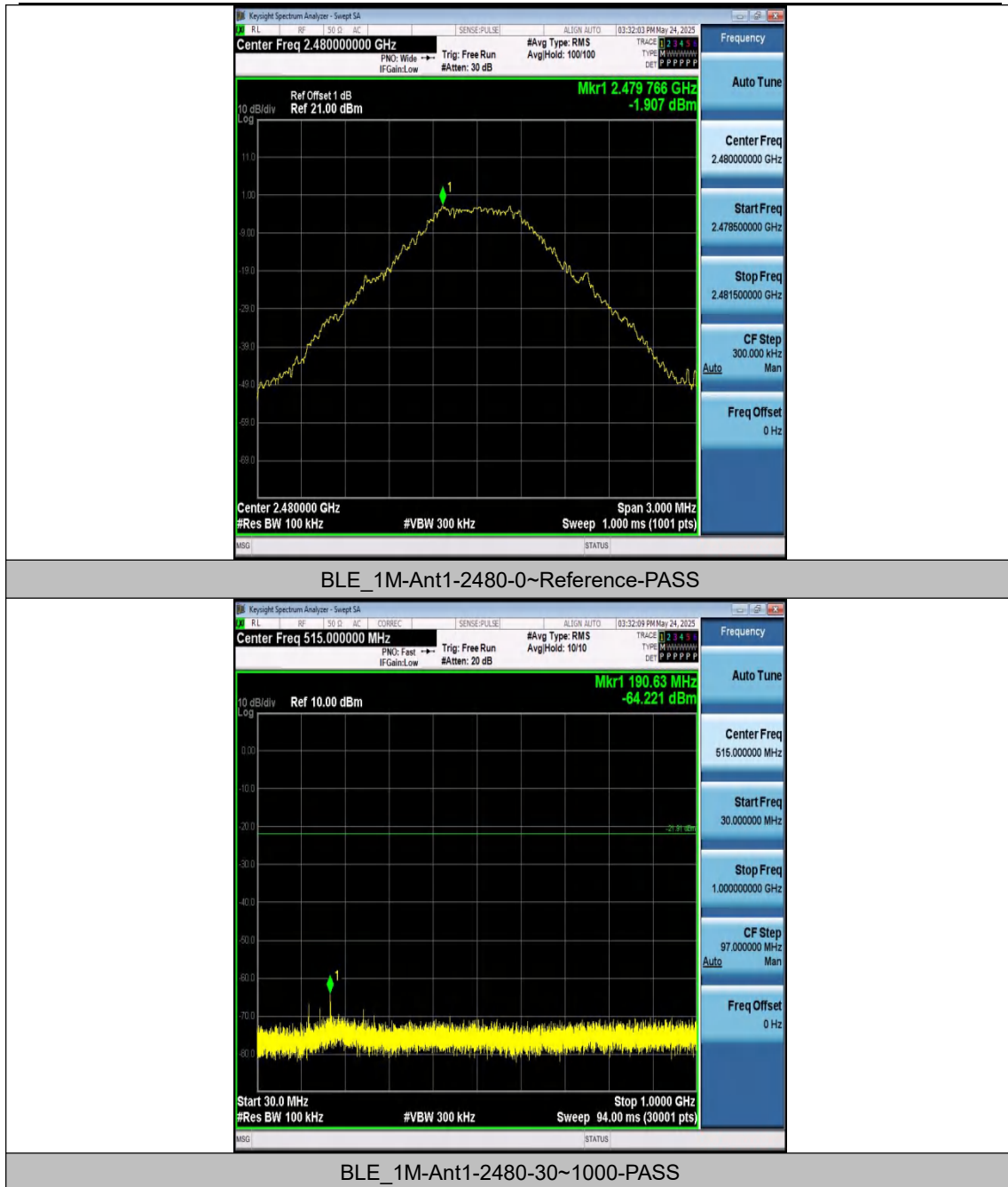
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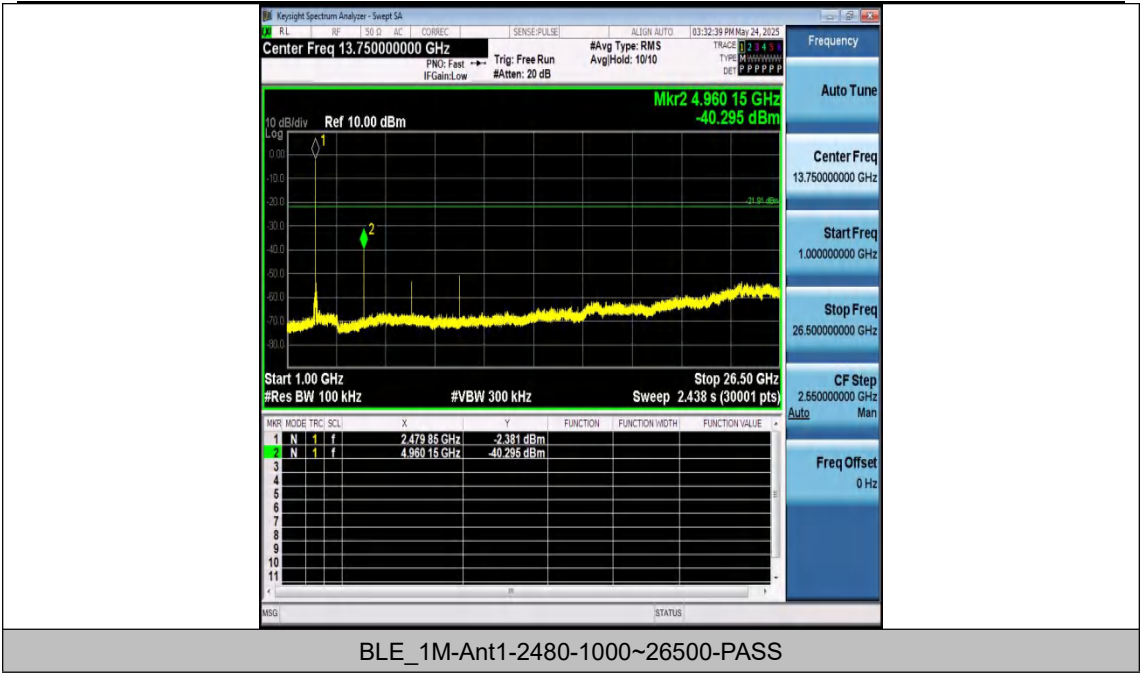


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BLE_1M-Ant1-2480-1000~26500-PASS

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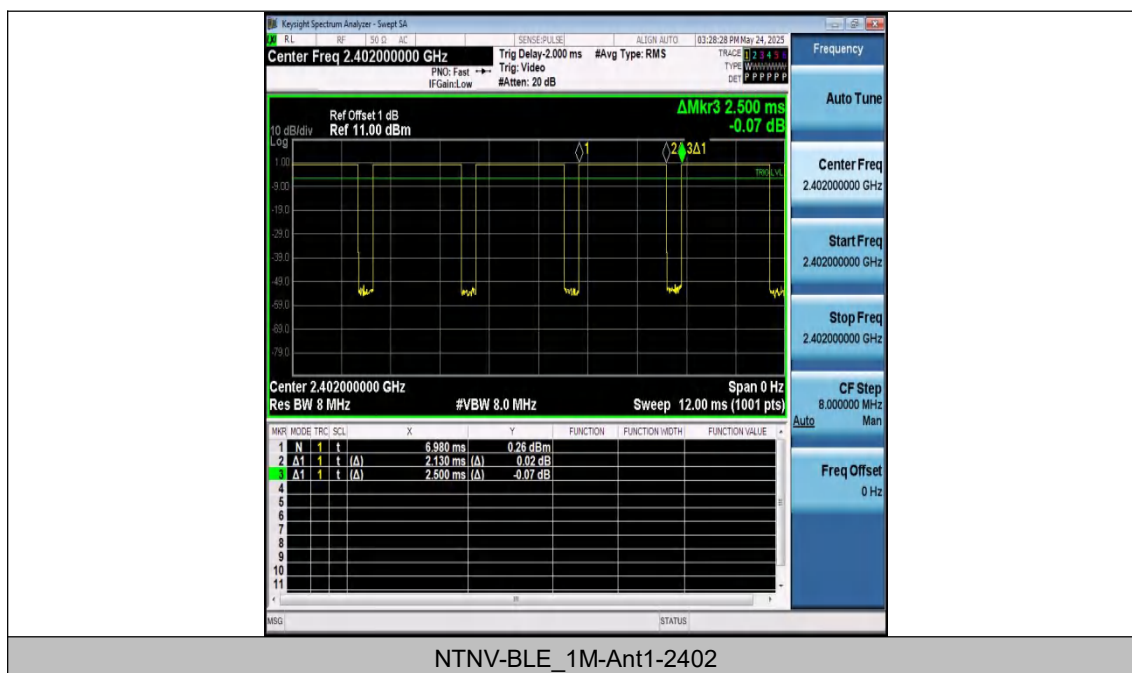
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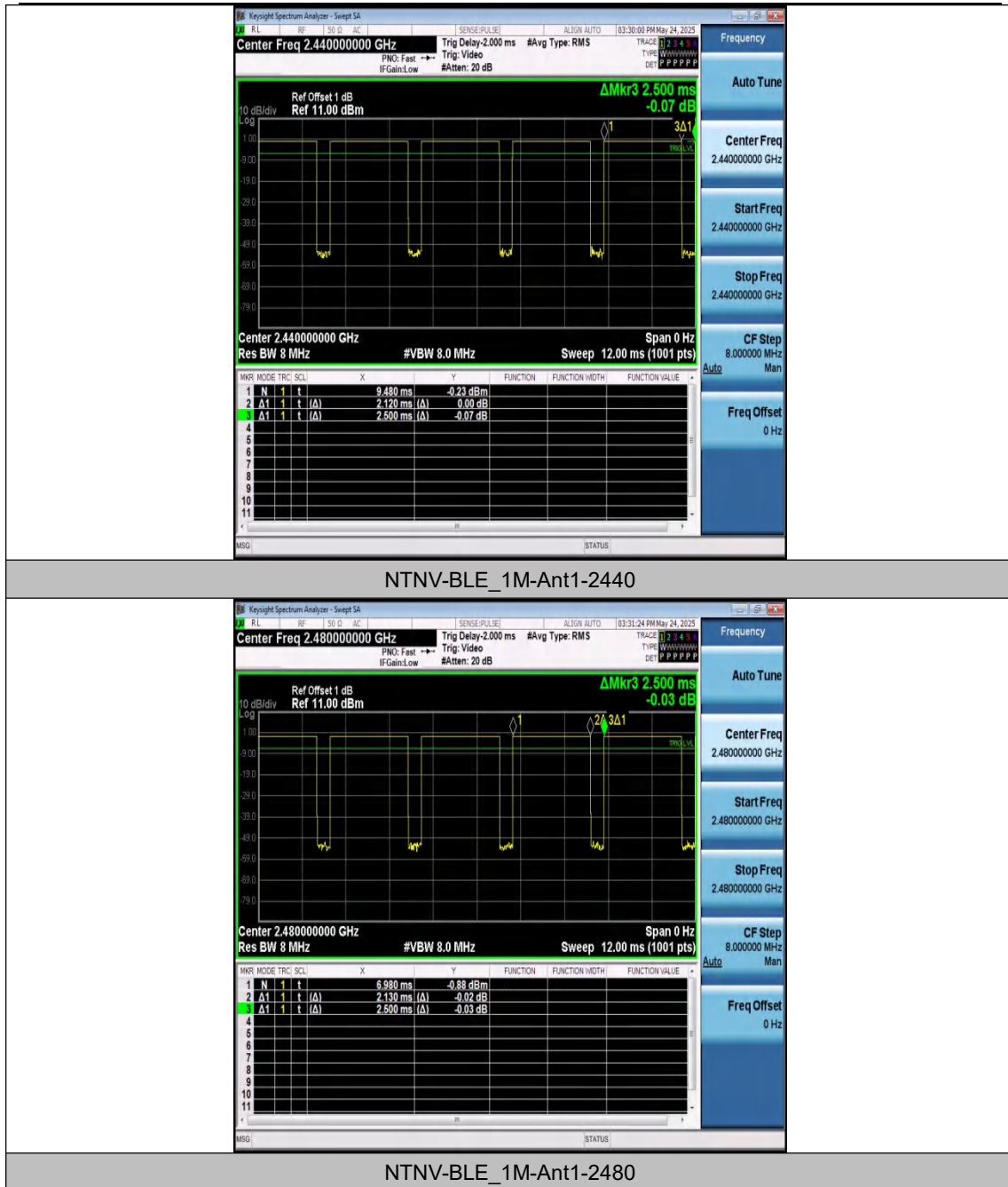
Appendix G: Duty Cycle

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	2.12	2.50	84.80	0.72
BLE_1M	Ant1	2480	2.13	2.50	85.20	0.70

Test Graphs





---End---