

Appendix Test Data

Report No.:	1812C50167112501	Test Sample No.:	1-2-2
Start Test Date:	2025-04-24	Finish Test Date:	2025-04-24
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	21°C	Relative Humidity:	40%
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	0.636	2401.692	2402.328	0.5	PASS
BLE_1M	Ant1	2440	0.652	2439.684	2440.336	0.5	PASS
BLE_1M	Ant1	2480	0.660	2479.672	2480.332	0.5	PASS



Test Graphs



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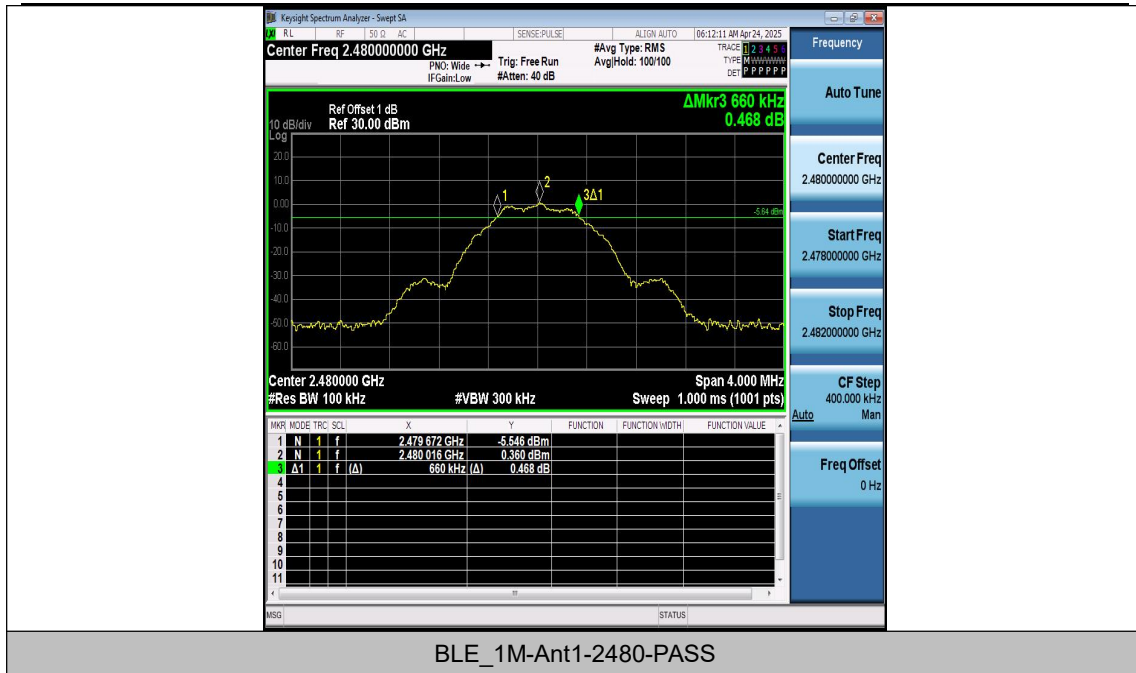
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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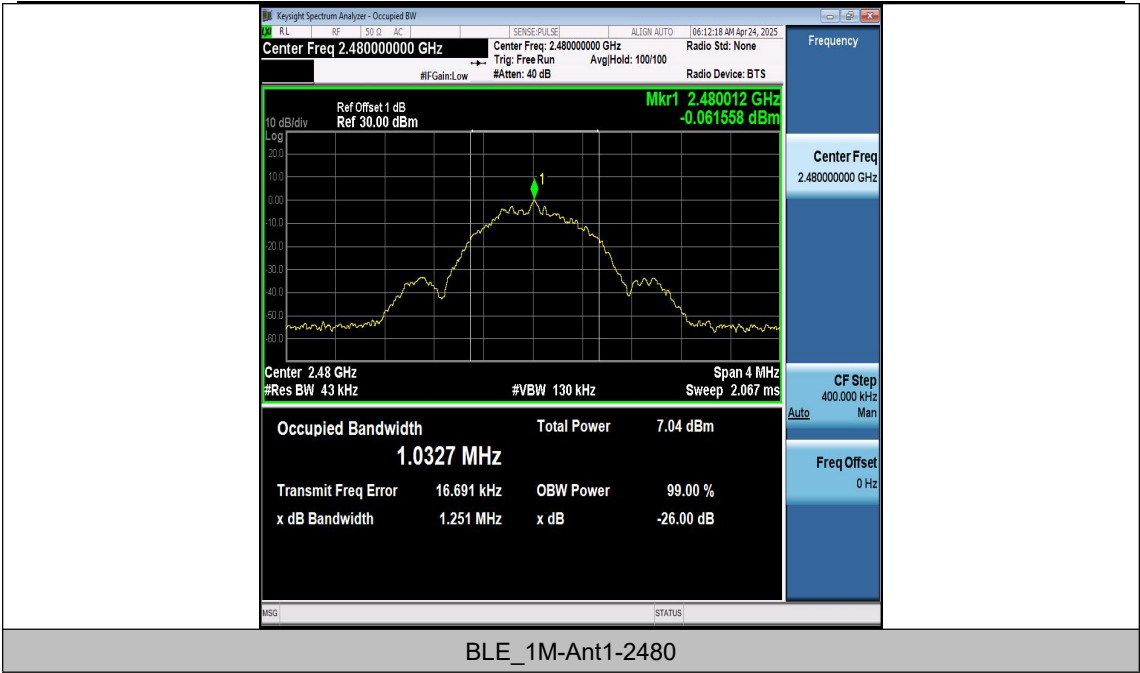
Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0386	2401.4985	2402.5371	---	---
BLE_1M	Ant1	2440	1.0528	2439.4950	2440.5478	---	---
BLE_1M	Ant1	2480	1.0327	2479.5003	2480.5330	---	---

Test Graphs





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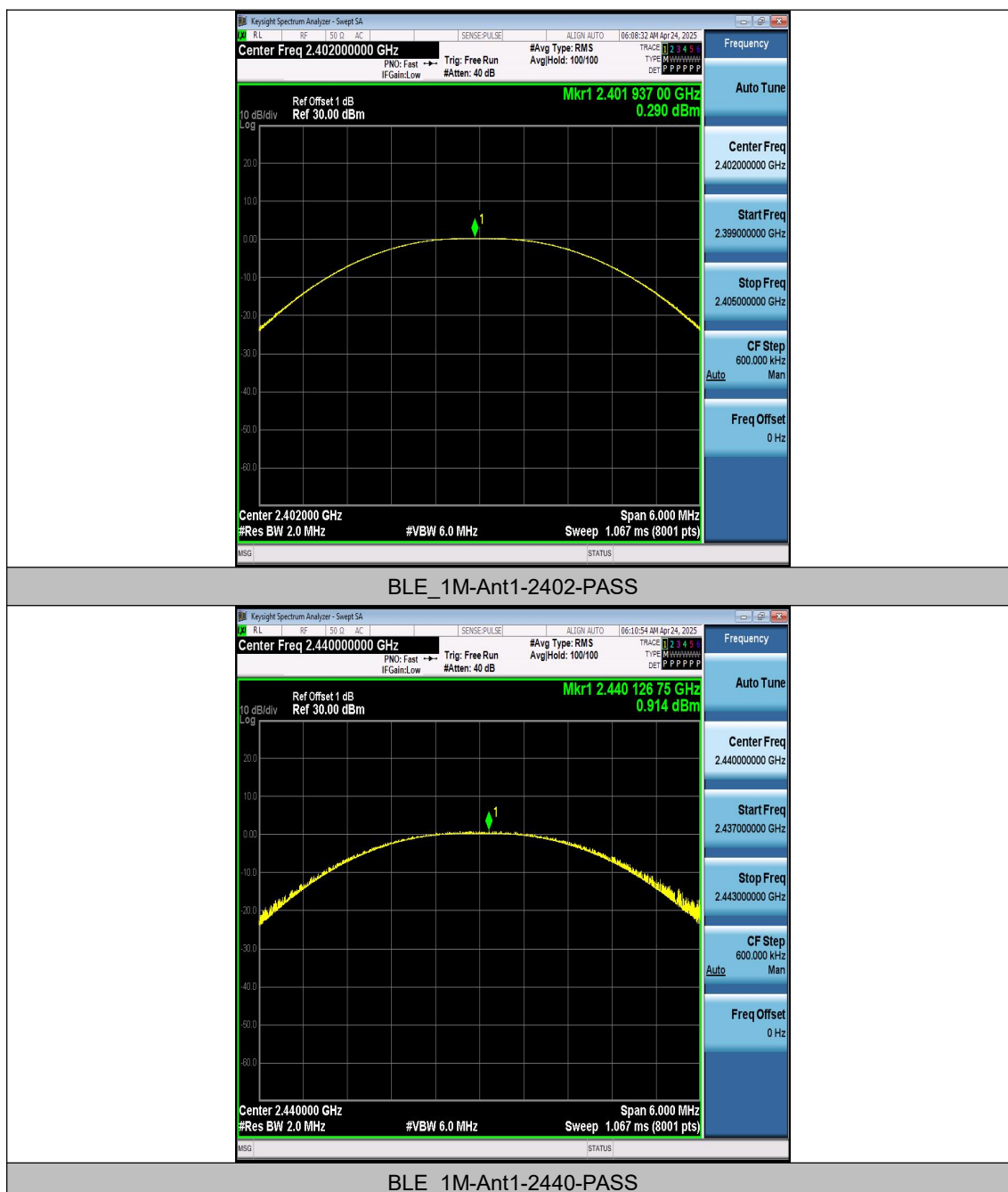
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Appendix C: Maximum conducted output power

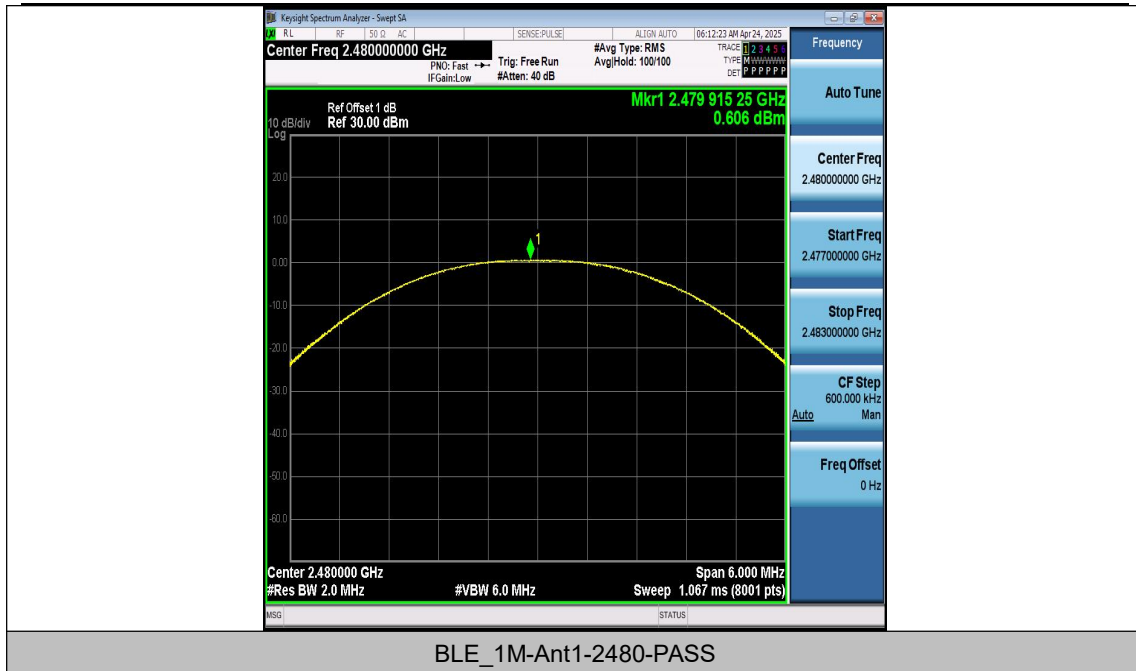
Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.29	≤30	PASS
BLE_1M	Ant1	2440	0.91	≤30	PASS
BLE_1M	Ant1	2480	0.61	≤30	PASS

Test Graphs Peak



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Appendix D: Maximum power spectral density

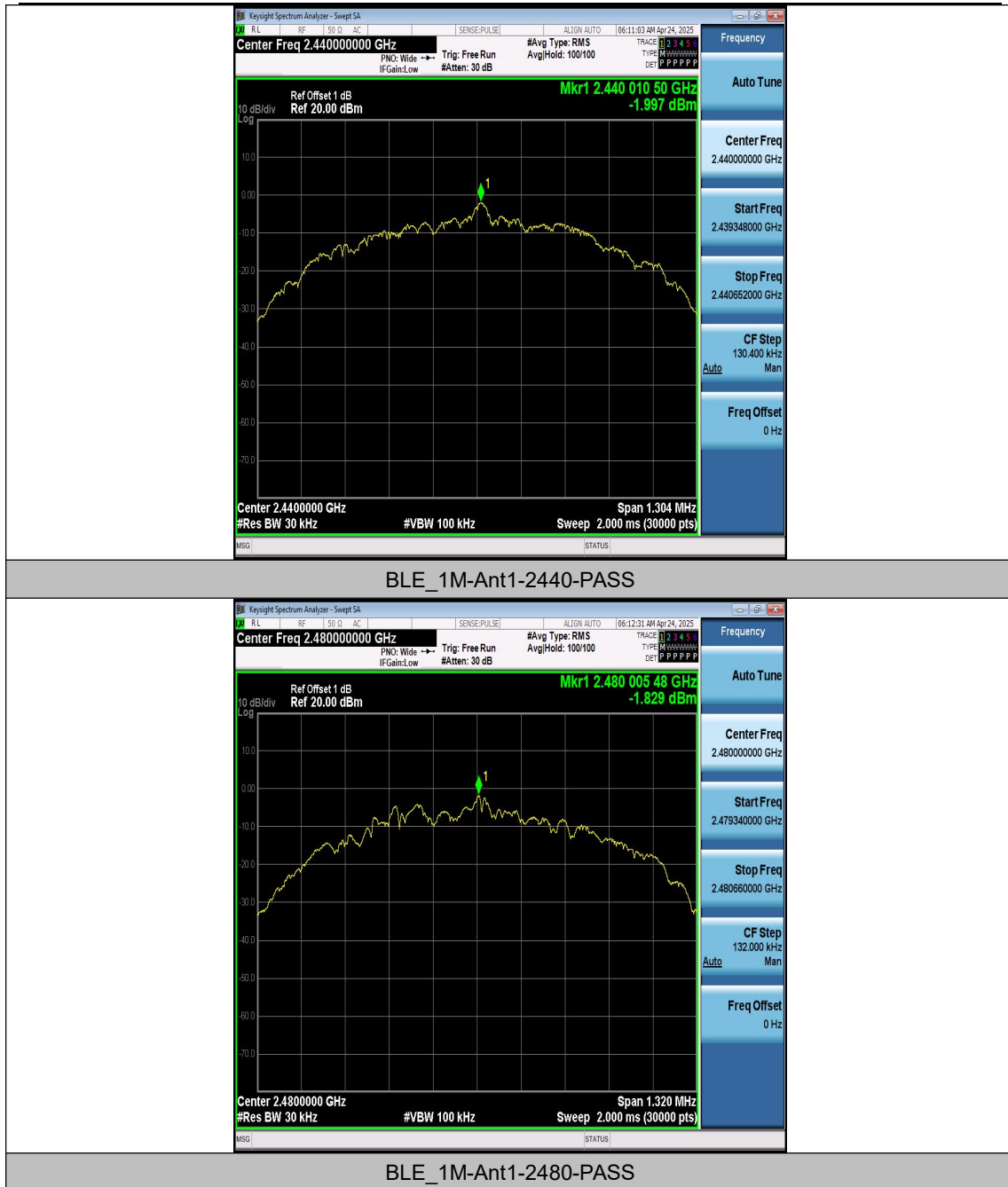
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-2.22	-12.22	≤8.00	PASS
BLE_1M	Ant1	2440	-2.00	-12.00	≤8.00	PASS
BLE_1M	Ant1	2480	-1.83	-11.83	≤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

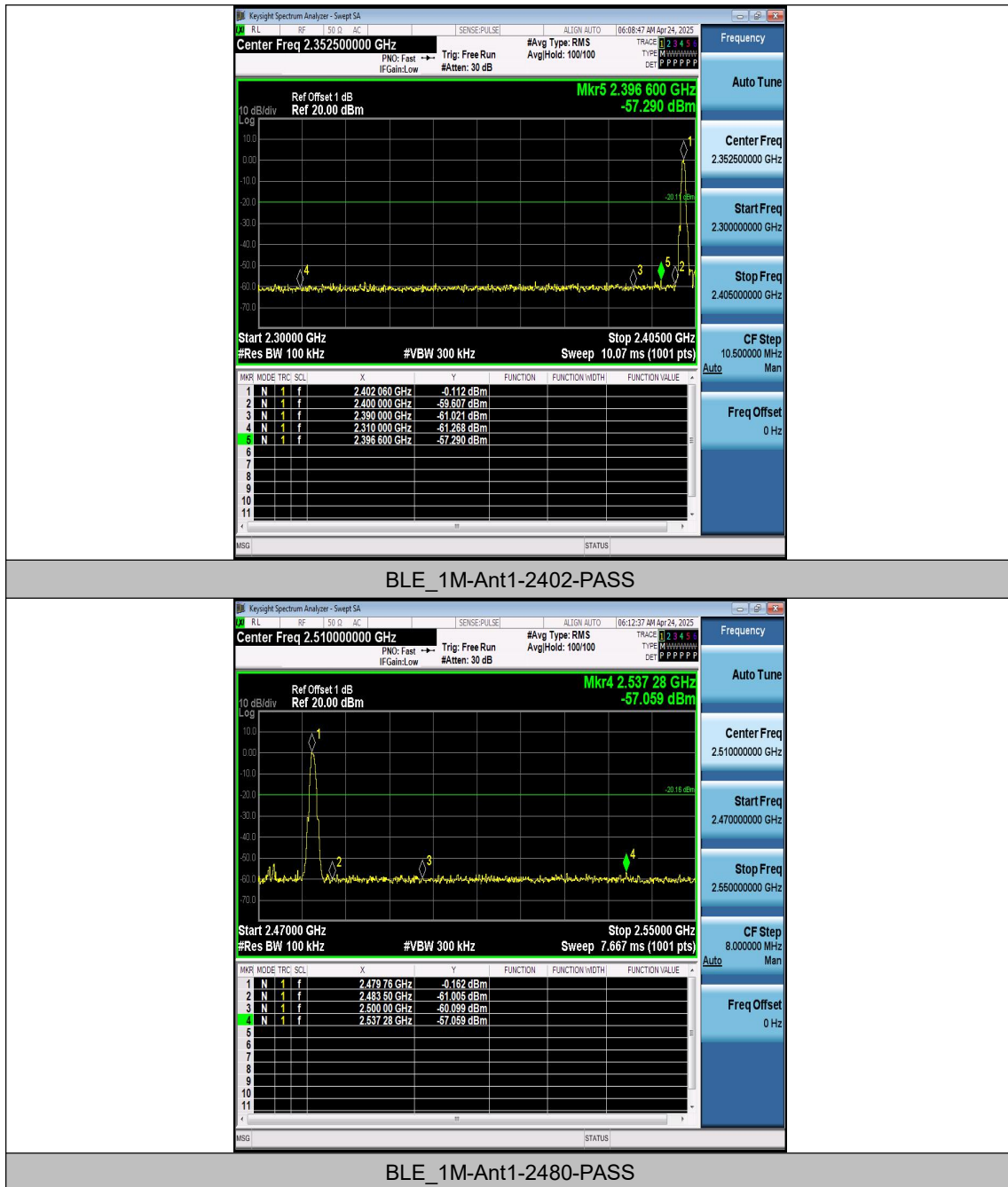
Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.11	-57.29	≤-20.11	PASS
BLE_1M	Ant1	High	2480	-0.16	-57.06	≤-20.16	PASS

Remark:1. 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



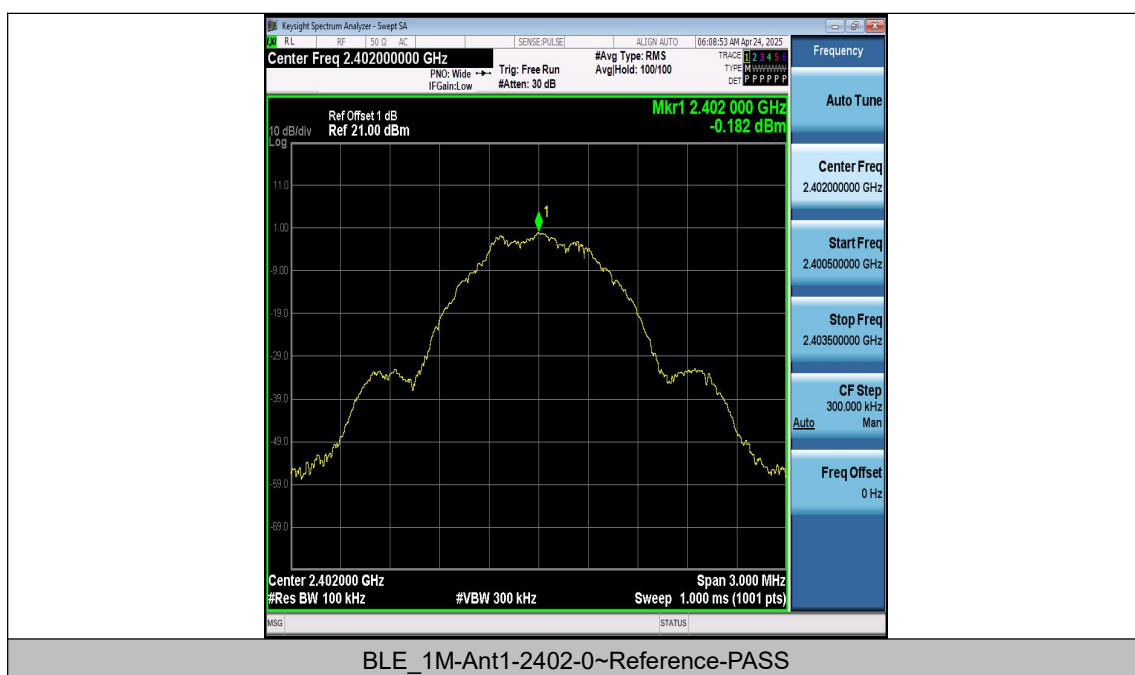
Appendix F: Conducted Spurious Emission

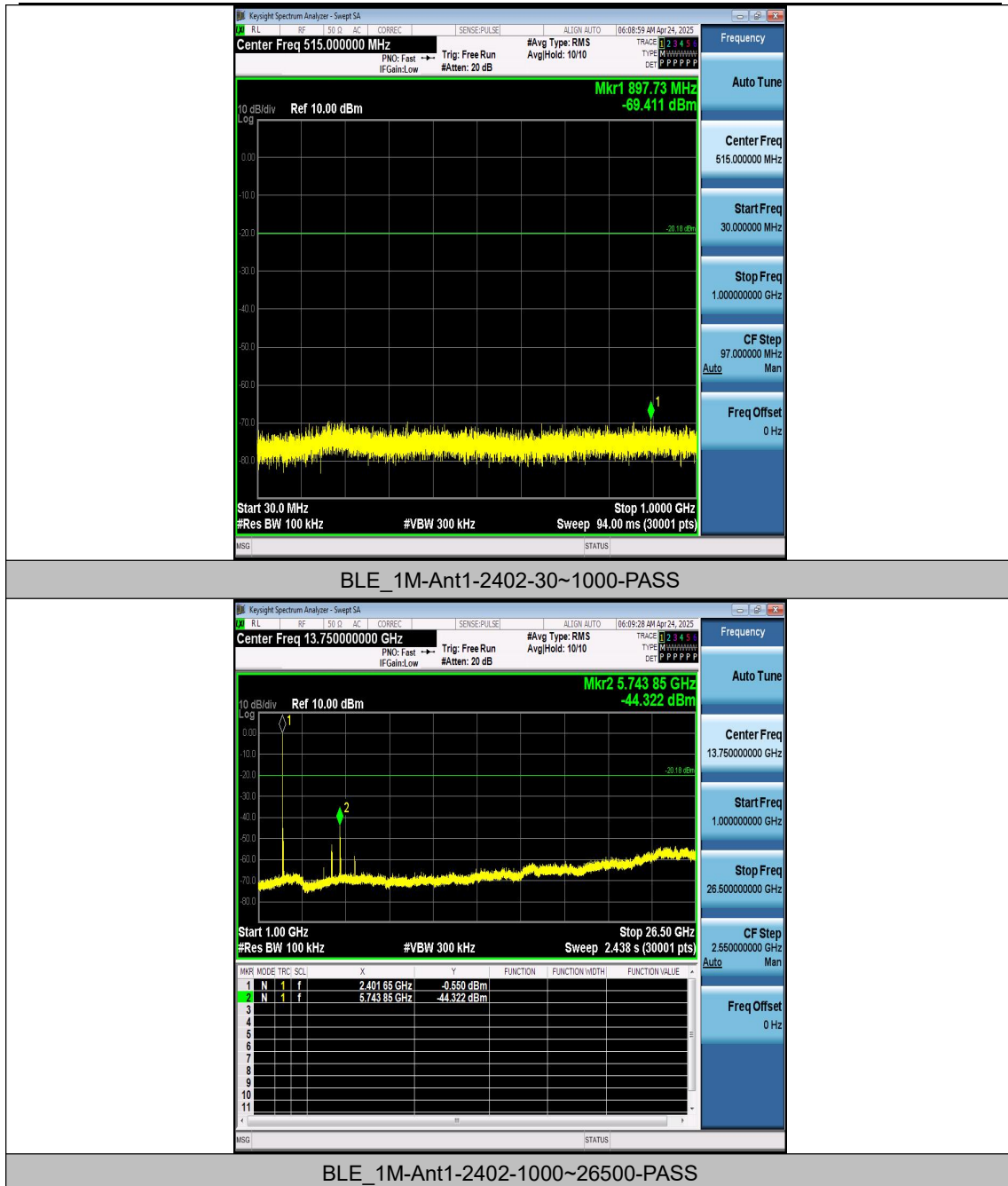
Test Result

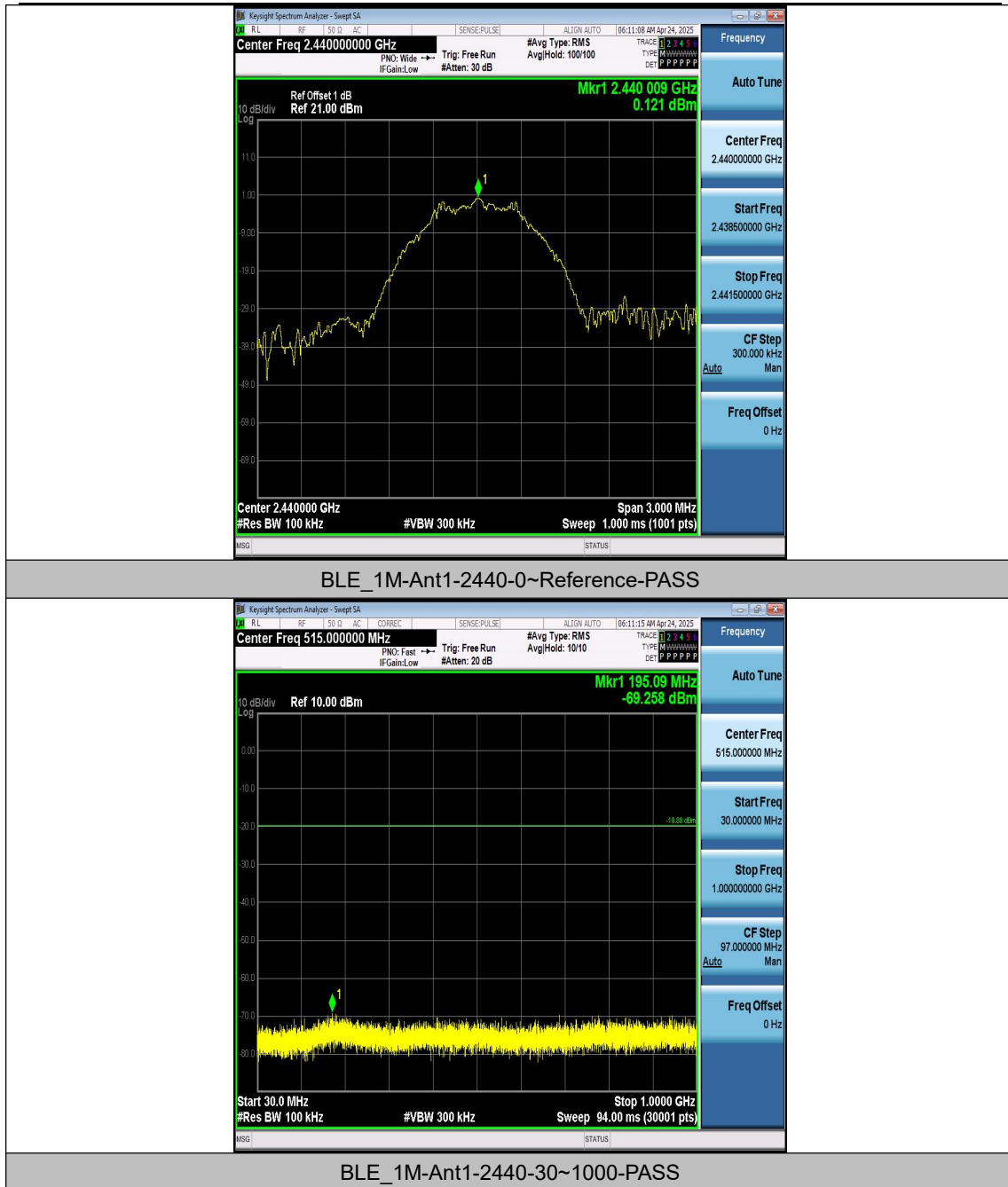
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.18	-0.18	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.18	-69.41	≤-20.18	PASS
BLE_1M	Ant1	2402	1000~26500	-0.18	-44.32	≤-20.18	PASS
BLE_1M	Ant1	2440	0~Reference	0.12	0.12	---	PASS
BLE_1M	Ant1	2440	30~1000	0.12	-69.26	≤-19.88	PASS
BLE_1M	Ant1	2440	1000~26500	0.12	-52.26	≤-19.88	PASS
BLE_1M	Ant1	2480	0~Reference	0.33	0.33	---	PASS
BLE_1M	Ant1	2480	30~1000	0.33	-68.37	≤-19.67	PASS
BLE_1M	Ant1	2480	1000~26500	0.33	-47.74	≤-19.67	PASS

Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

Test Graphs







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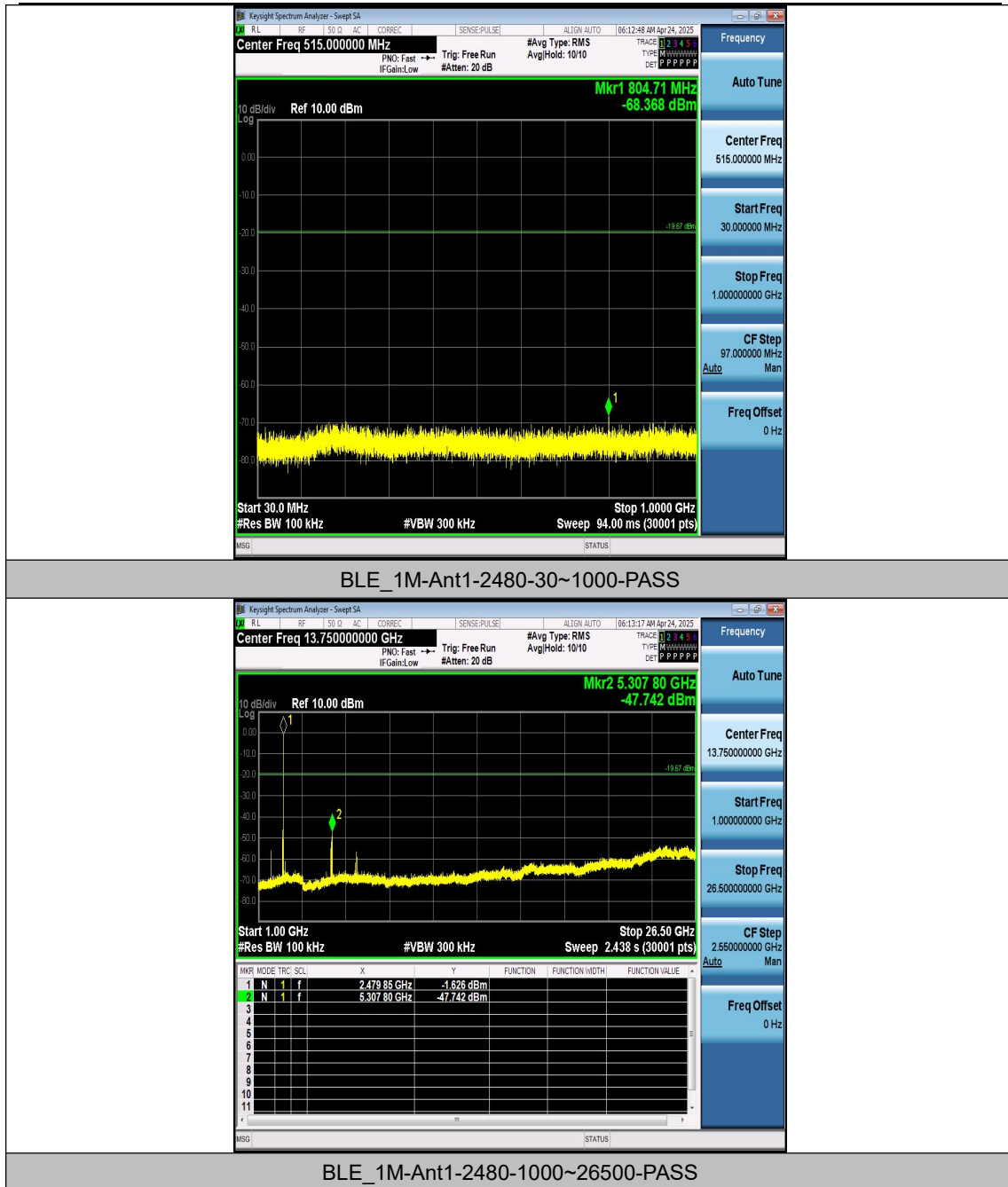
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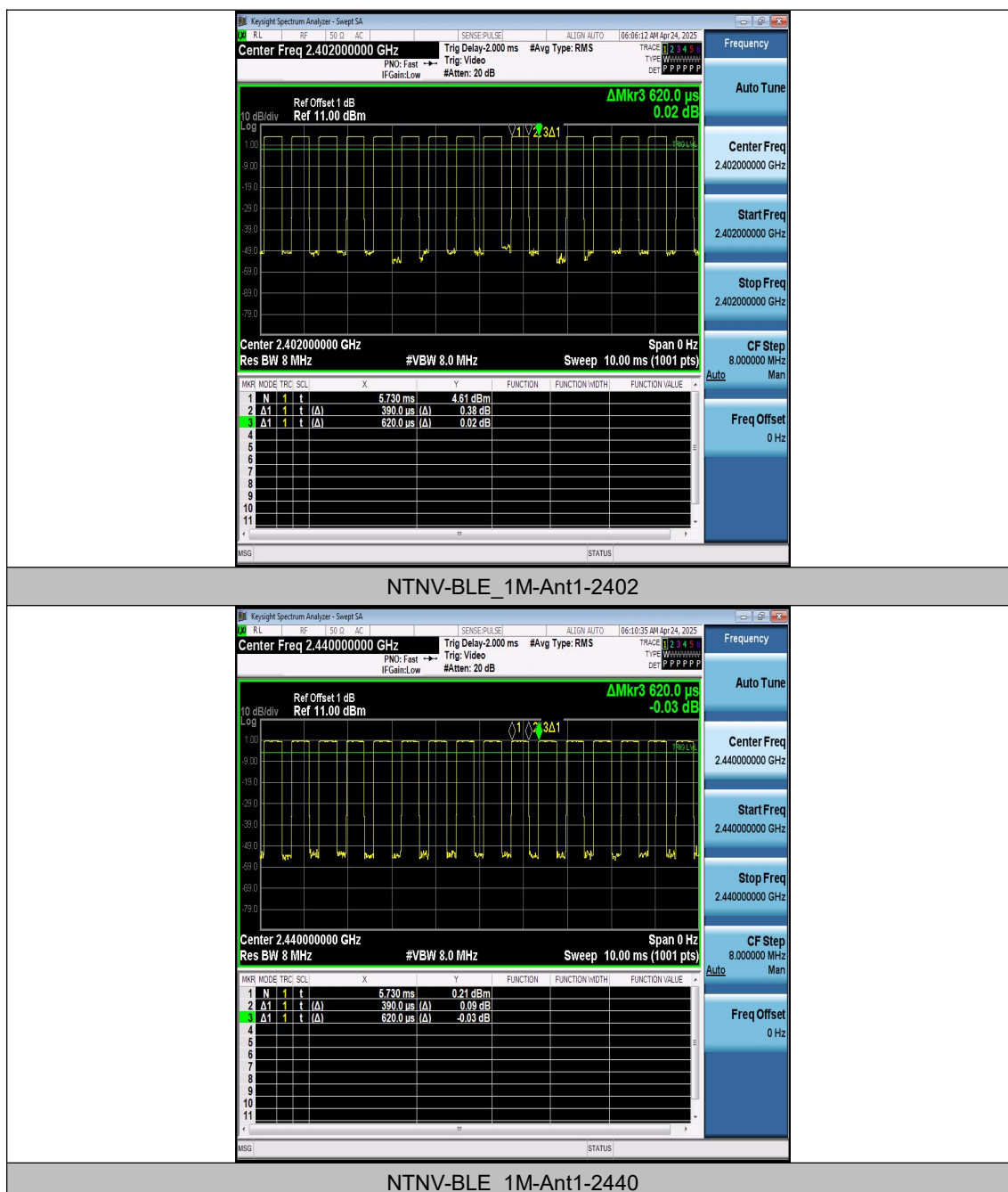


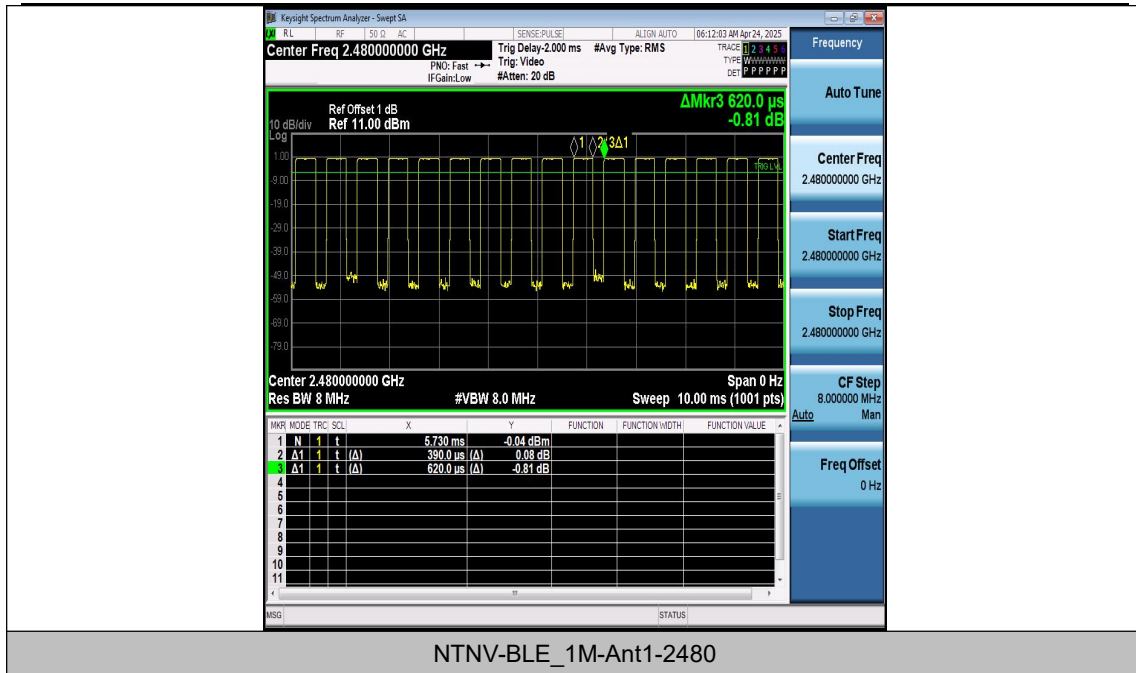
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.62	62.90	2.01
BLE_1M	Ant1	2440	0.39	0.62	62.90	2.01
BLE_1M	Ant1	2480	0.39	0.62	62.90	2.01

Test Graphs





---End---

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