

Appendix Test Data

Report No.:	1812C40097912501	Test Sample No.:	1-2-2
Start Test Date:	2024.11.06	Finish Test Date:	2024.11.06
Test Engineer:	<i>Foker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	22.4°C	Relative Humidity:	50%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.568	2401.728	2402.296	0.5	PASS
BLE_1M	Ant1	2440	0.544	2439.728	2440.272	0.5	PASS
BLE_1M	Ant1	2480	0.544	2479.728	2480.272	0.5	PASS



Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.94630	2401.5244	2402.4707	---	---
BLE_1M	Ant1	2440	0.94907	2439.5236	2440.4727	---	---
BLE_1M	Ant1	2480	0.93510	2479.5251	2480.4602	---	---

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Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



BLE_1M-Ant1-2480

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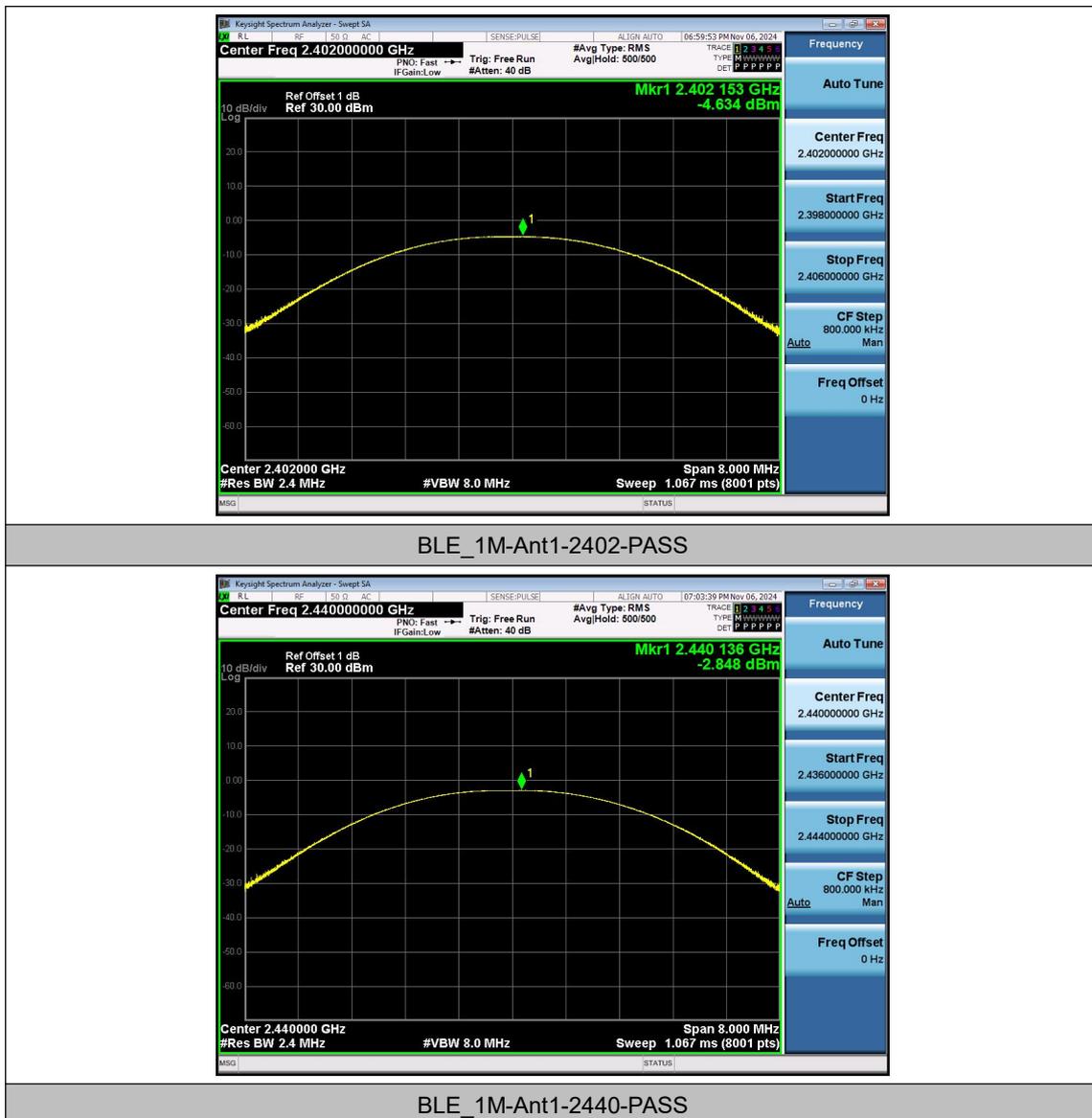


Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-4.63	≤30	PASS
BLE_1M	Ant1	2440	-2.85	≤30	PASS
BLE_1M	Ant1	2480	-3.79	≤30	PASS

Test Graphs Peak





BLE_1M-Ant1-2480-PASS

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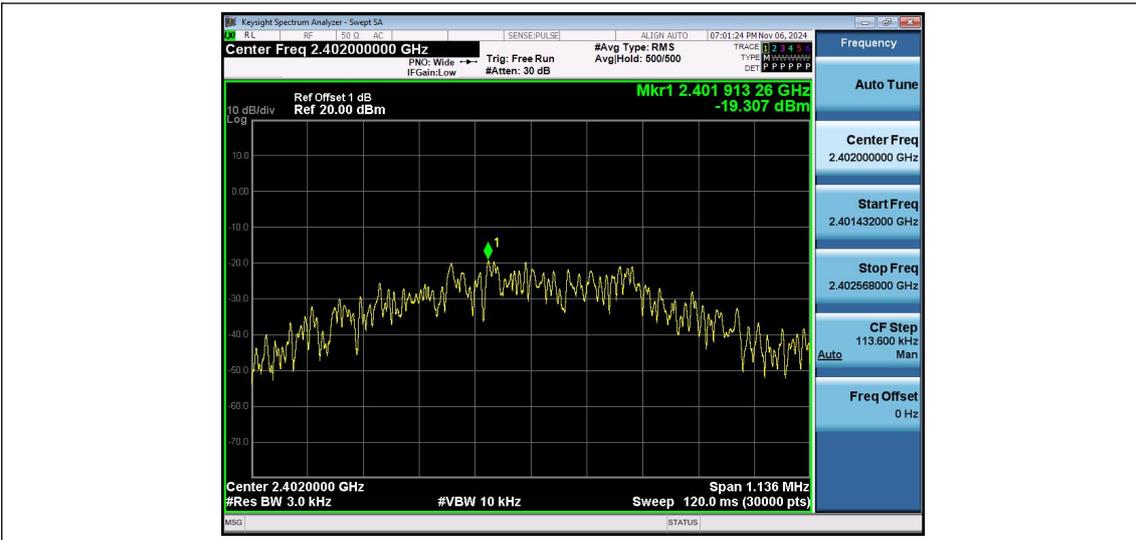
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.31	≤8.00	PASS
BLE_1M	Ant1	2440	-17.69	≤8.00	PASS
BLE_1M	Ant1	2480	-18.15	≤8.00	PASS



Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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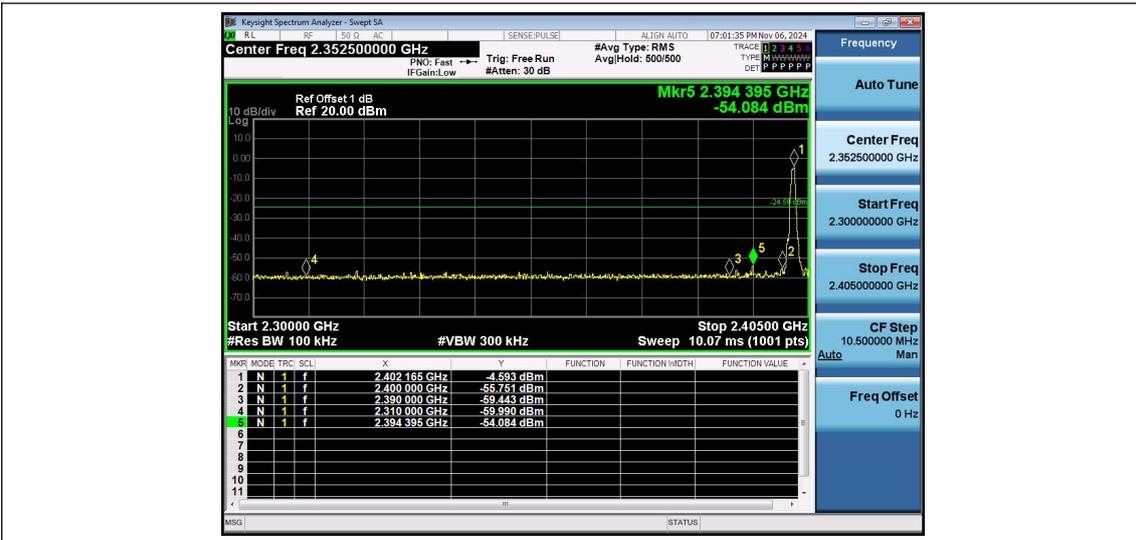
Appendix E: Band edge measurements

Test Result

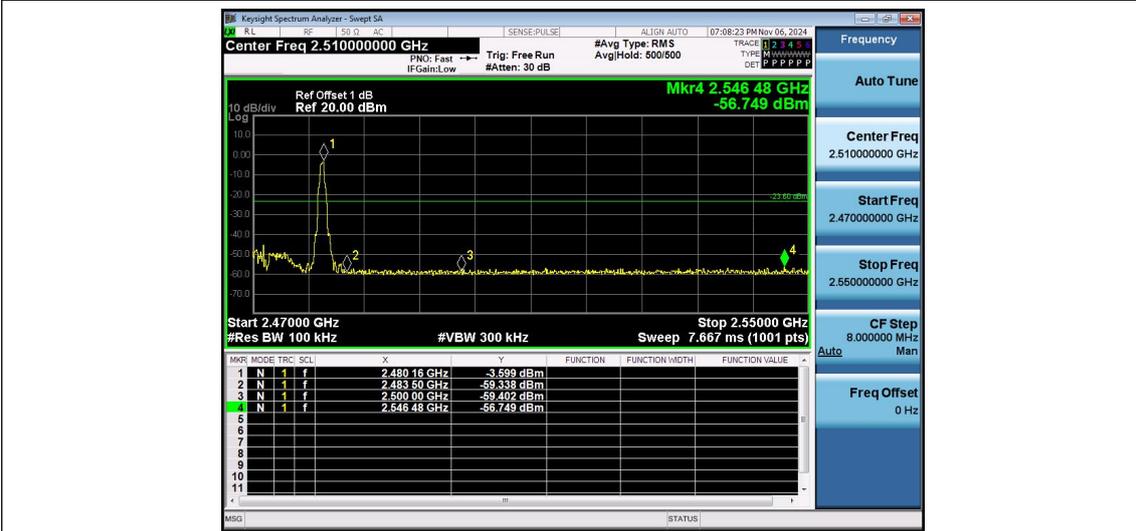
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.59	-54.08	≤-24.59	PASS
BLE_1M	Ant1	High	2480	-3.60	-56.75	≤-23.6	PASS



Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



Appendix F: Conducted Spurious Emission

Test Result

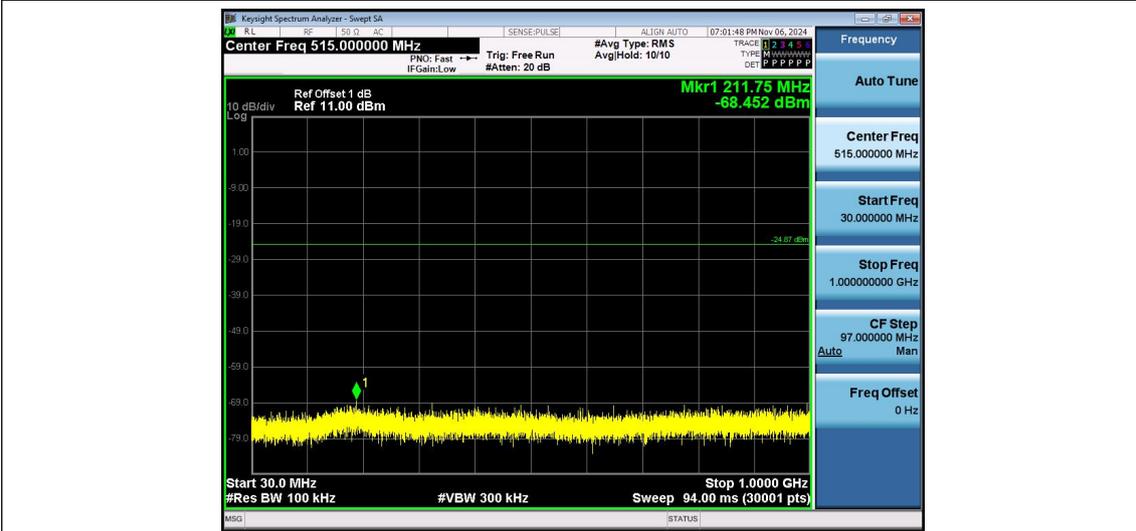
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-4.87	-4.87	---	PASS
BLE_1M	Ant1	2402	30~1000	-4.87	-68.45	≤-24.87	PASS
BLE_1M	Ant1	2402	1000~26500	-4.87	-48.65	≤-24.87	PASS
BLE_1M	Ant1	2440	0~Reference	-3.04	-3.04	---	PASS
BLE_1M	Ant1	2440	30~1000	-3.04	-67.15	≤-23.04	PASS
BLE_1M	Ant1	2440	1000~26500	-3.04	-31.85	≤-23.04	PASS
BLE_1M	Ant1	2480	0~Reference	-3.99	-3.99	---	PASS
BLE_1M	Ant1	2480	30~1000	-3.99	-68.52	≤-23.99	PASS
BLE_1M	Ant1	2480	1000~26500	-3.99	-45.63	≤-23.99	PASS



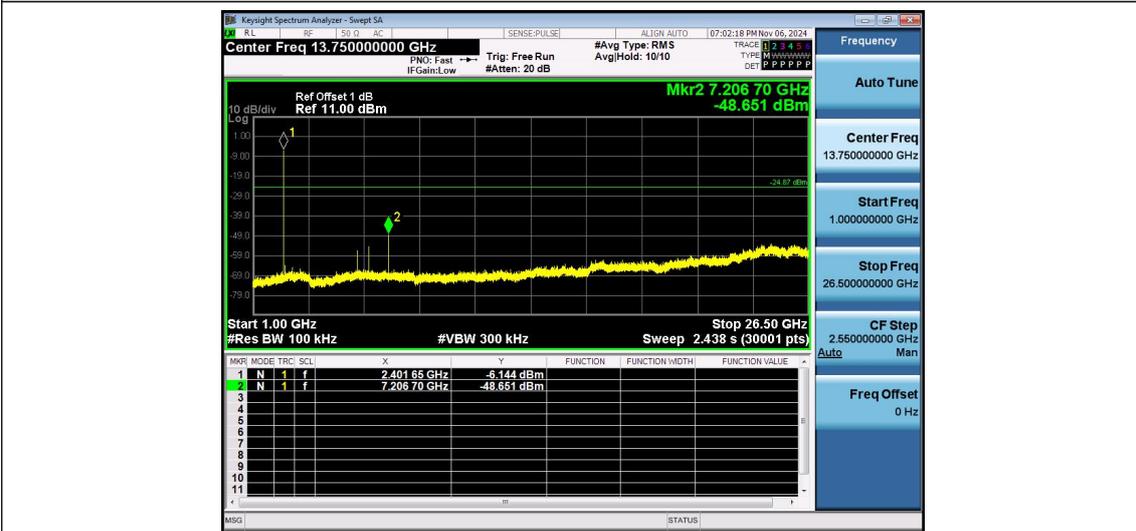
Test Graphs



BLE_1M-Ant1-2402-0~Reference-PASS



BLE_1M-Ant1-2402-30~1000-PASS



BLE_1M-Ant1-2402-1000~26500-PASS

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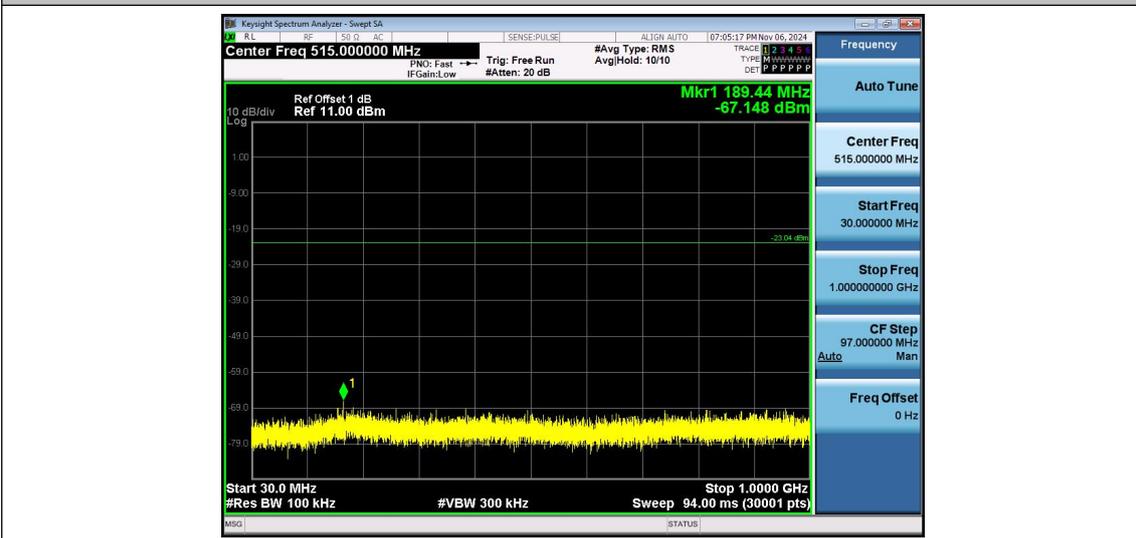
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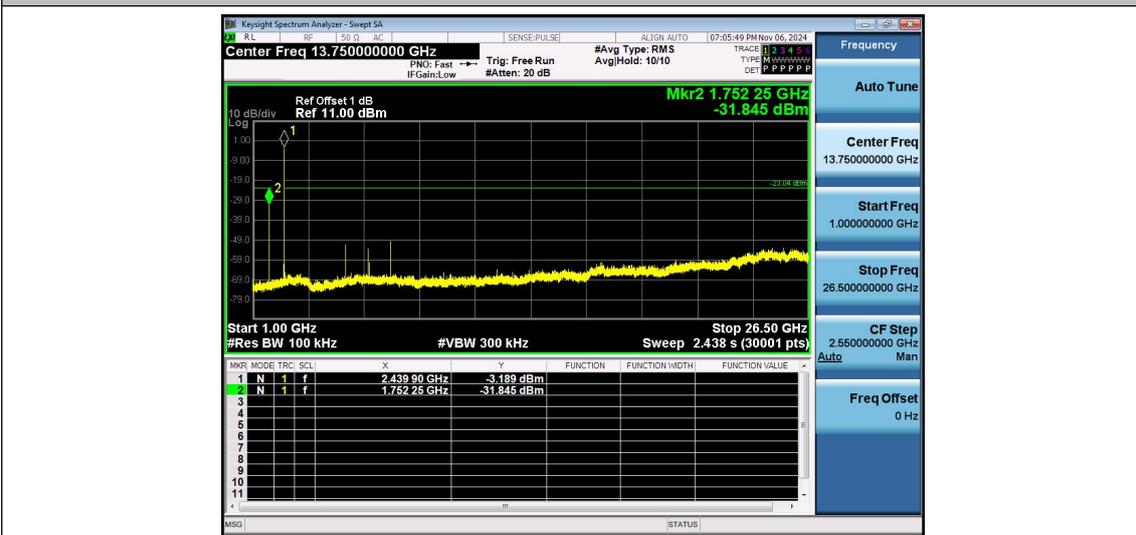




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

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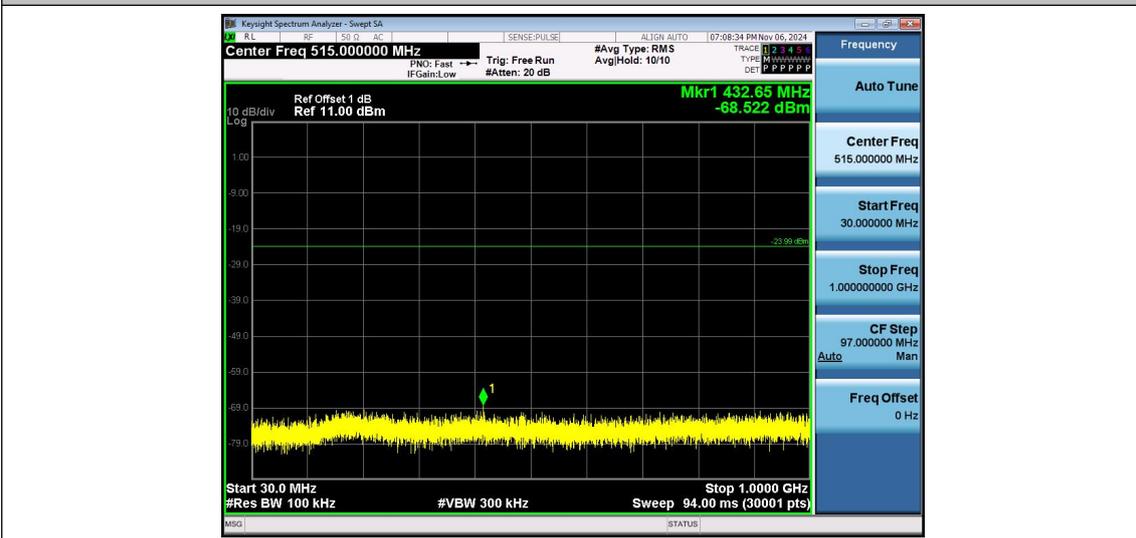
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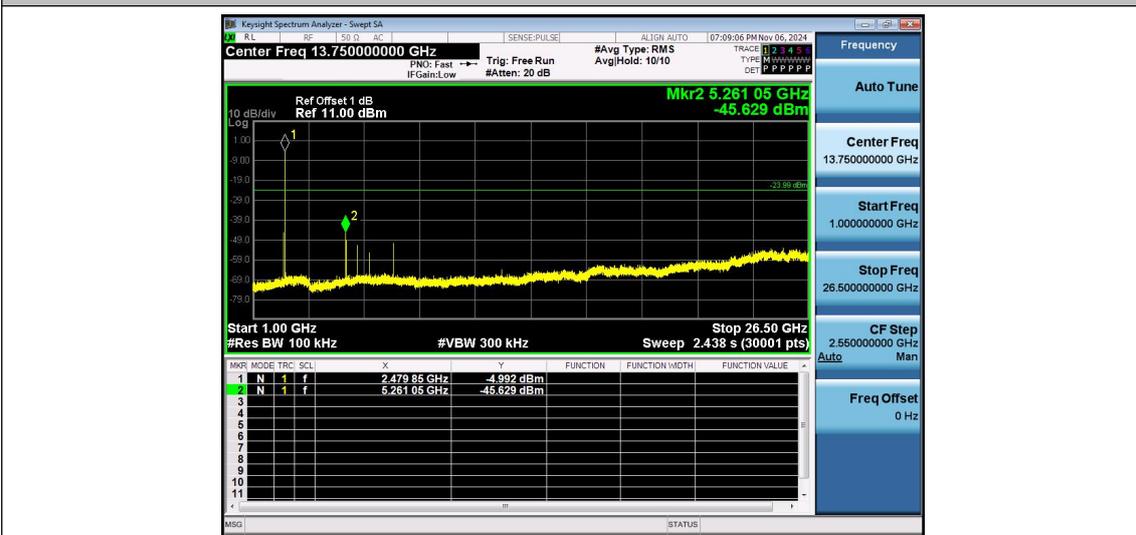




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS

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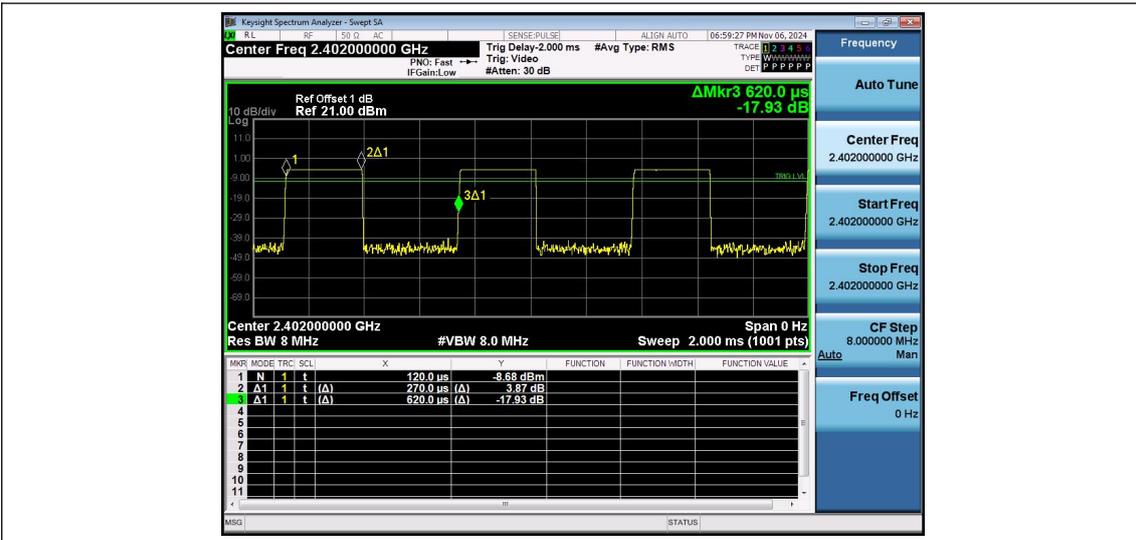
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.27	0.62	43.55	3.61
BLE_1M	Ant1	2440	0.28	0.62	45.16	3.45
BLE_1M	Ant1	2480	0.28	0.62	45.16	3.45



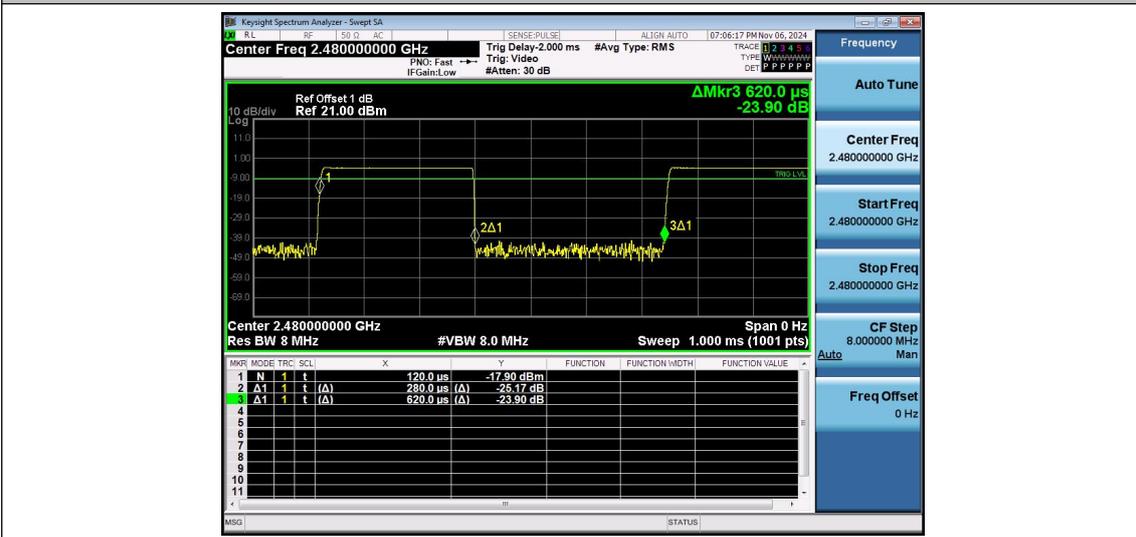
Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440



NTNV-BLE_1M-Ant1-2480

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