

Appendix Test Data

Report No.:	18220WC40099102	Test Sample No.:	1-2-2
Start Test Date:	2024.05.23	Finish Test Date:	2024.05.25
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25.3℃	Relative Humidity:	48%
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	0.652	2401.680	2402.332	0.5	PASS
BLE_1M	Ant1	2440	0.652	2439.672	2440.324	0.5	PASS
BLE_1M	Ant1	2480	0.652	2479.676	2480.328	0.5	PASS
BLE_2M	Ant1	2402	1.112	2401.452	2402.564	0.5	PASS
BLE_2M	Ant1	2440	1.060	2439.456	2440.516	0.5	PASS
BLE_2M	Ant1	2480	1.080	2479.492	2480.572	0.5	PASS



Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-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	1.0274	2401.4954	2402.5228	---	---
BLE_1M	Ant1	2440	1.0355	2439.4933	2440.5288	---	---
BLE_1M	Ant1	2480	1.0310	2479.4925	2480.5235	---	---
BLE_2M	Ant1	2402	2.0761	2400.9796	2403.0557	---	---
BLE_2M	Ant1	2440	2.0766	2438.9806	2441.0572	---	---
BLE_2M	Ant1	2480	2.0613	2478.9825	2481.0438	---	---



Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



BLE_1M-Ant1-2480

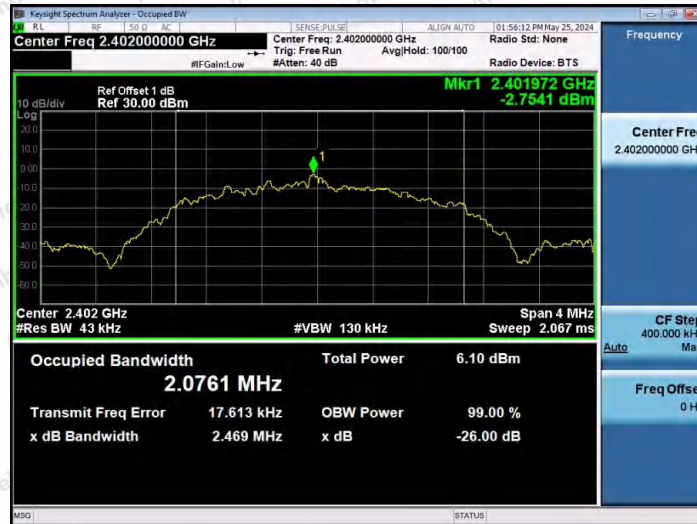
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BLE_2M-Ant1-2402



BLE_2M-Ant1-2440



BLE_2M-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	0.29	≤30	PASS
BLE_1M	Ant1	2440	-0.96	≤30	PASS
BLE_1M	Ant1	2480	-1.97	≤30	PASS
BLE_2M	Ant1	2402	0.25	≤30	PASS
BLE_2M	Ant1	2440	-0.92	≤30	PASS
BLE_2M	Ant1	2480	-1.92	≤30	PASS

Test Graphs Peak



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS

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BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



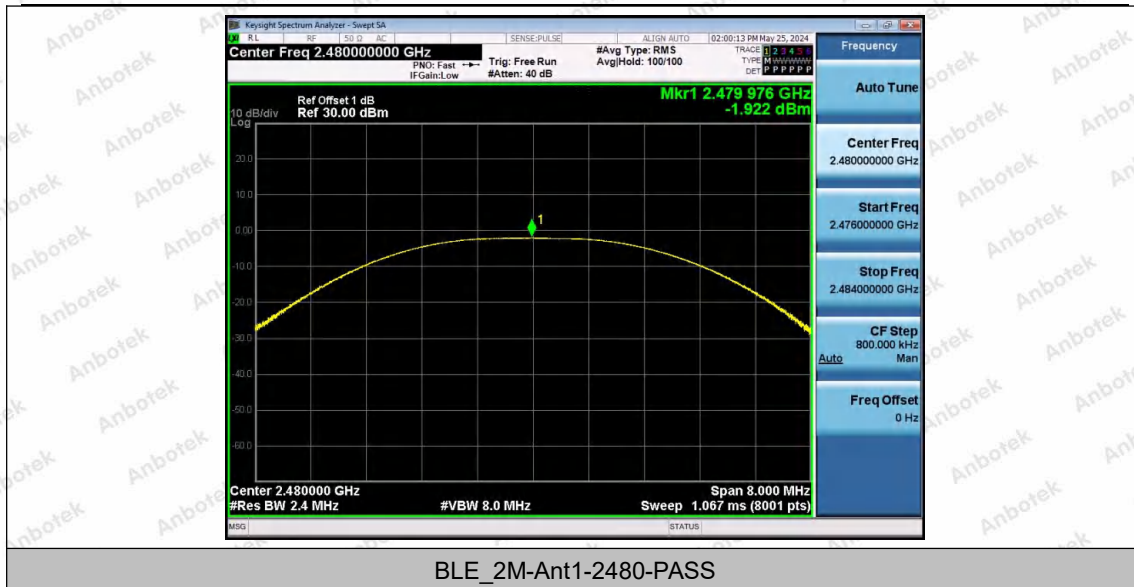
BLE_2M-Ant1-2440-PASS

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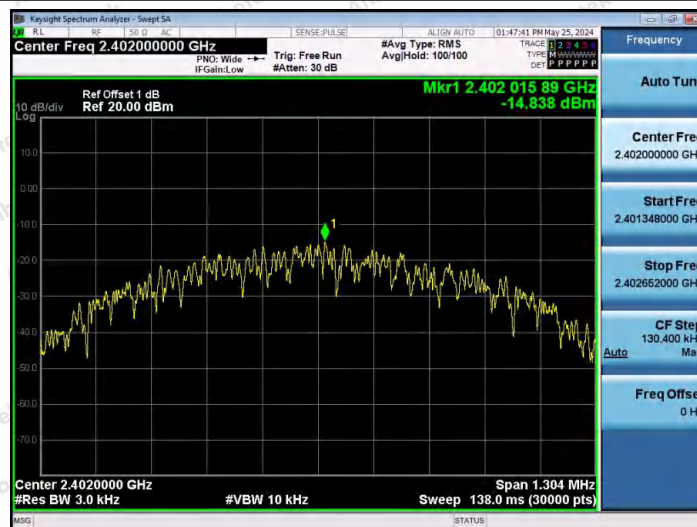
Appendix D: Maximum power spectral density

Test Result

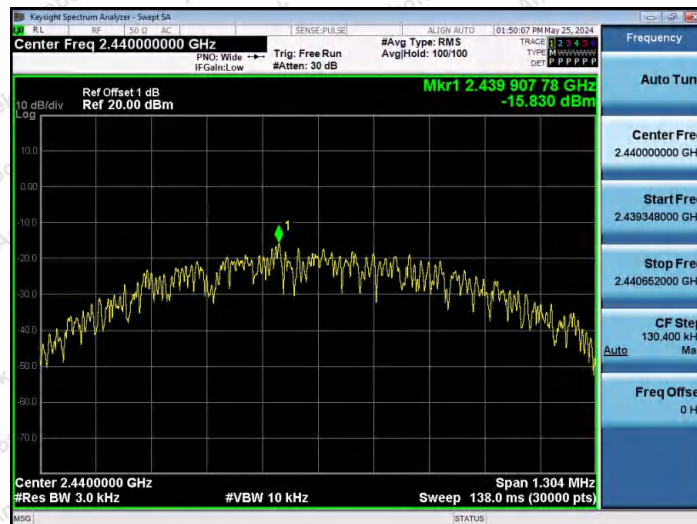
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.84	≤8.00	PASS
BLE_1M	Ant1	2440	-15.83	≤8.00	PASS
BLE_1M	Ant1	2480	-15.52	≤8.00	PASS
BLE_2M	Ant1	2402	-17.82	≤8.00	PASS
BLE_2M	Ant1	2440	-18.71	≤8.00	PASS
BLE_2M	Ant1	2480	-19.74	≤8.00	PASS



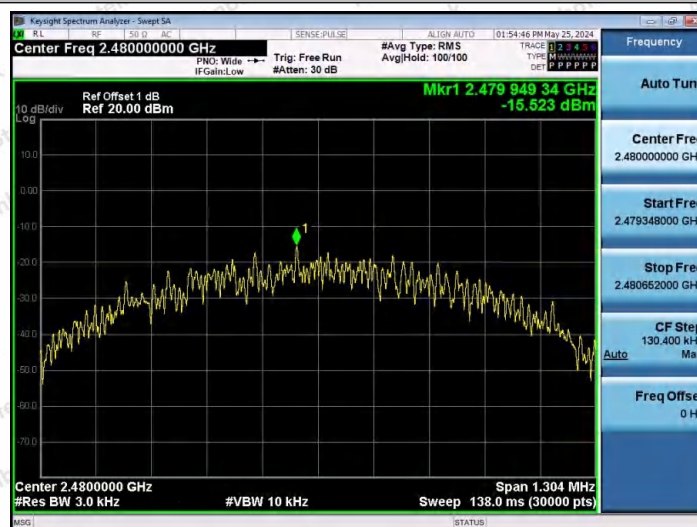
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

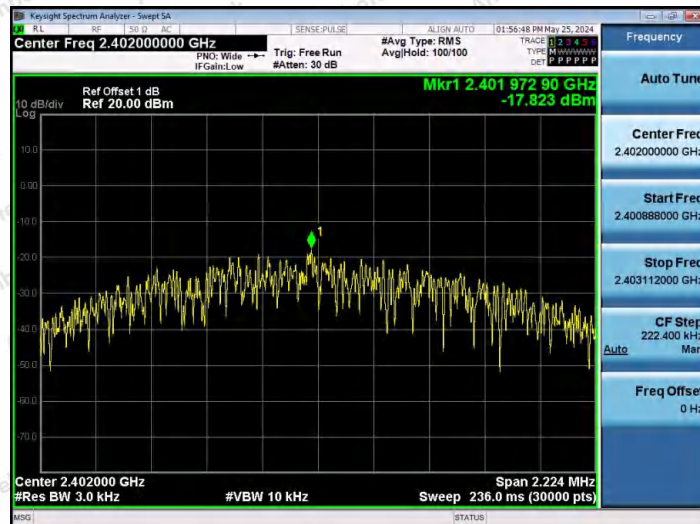
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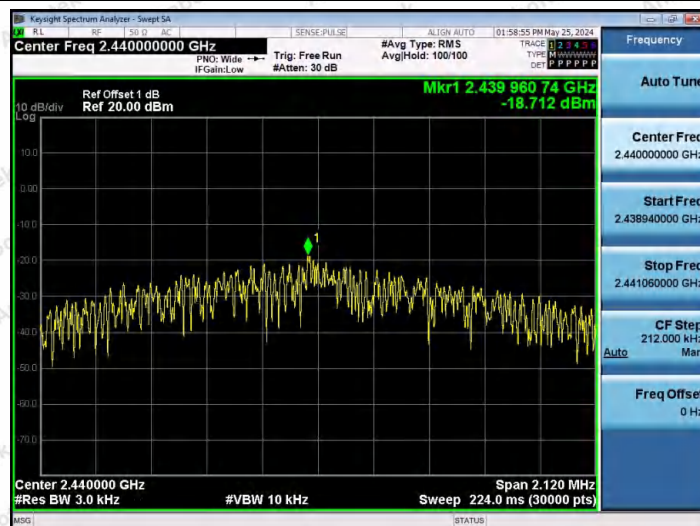


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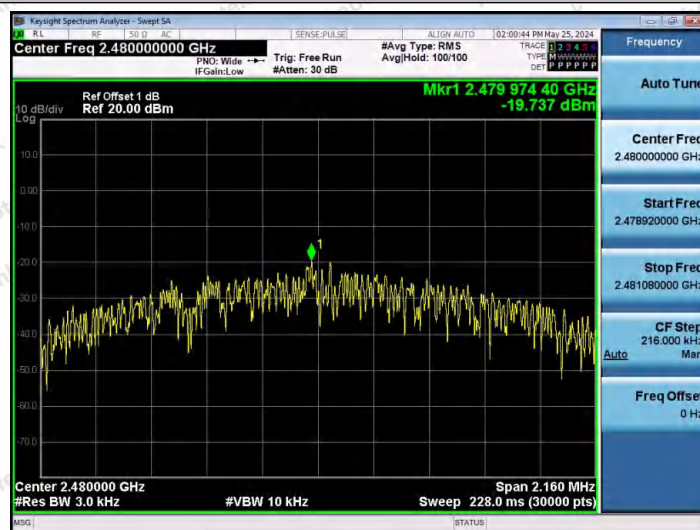




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

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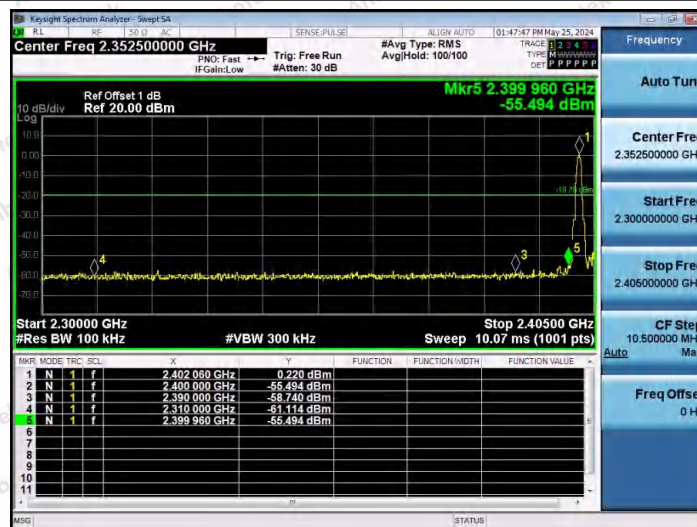
Appendix E: Band edge measurements

Test Result

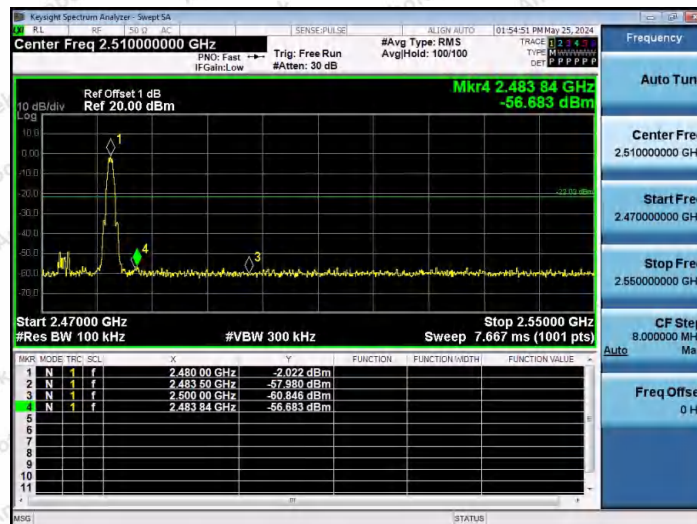
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.22	-55.49	≤-19.78	PASS
BLE_1M	Ant1	High	2480	-2.02	-56.68	≤-22.02	PASS
BLE_2M	Ant1	Low	2402	-0.31	-32.77	≤-20.31	PASS
BLE_2M	Ant1	High	2480	-3.81	-56.58	≤-23.81	PASS



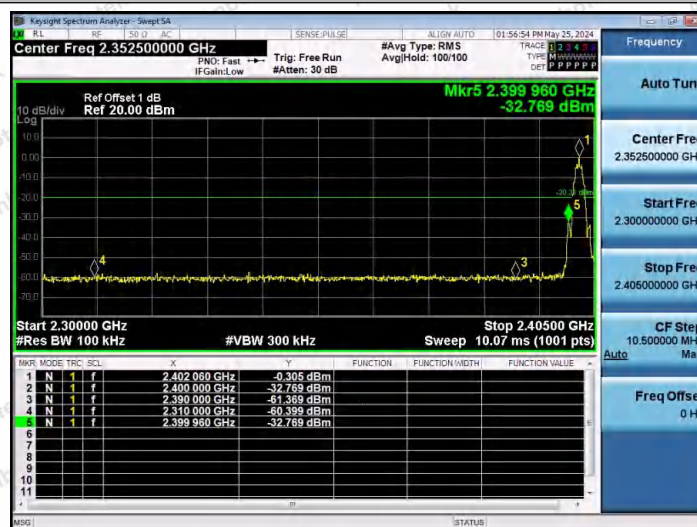
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS

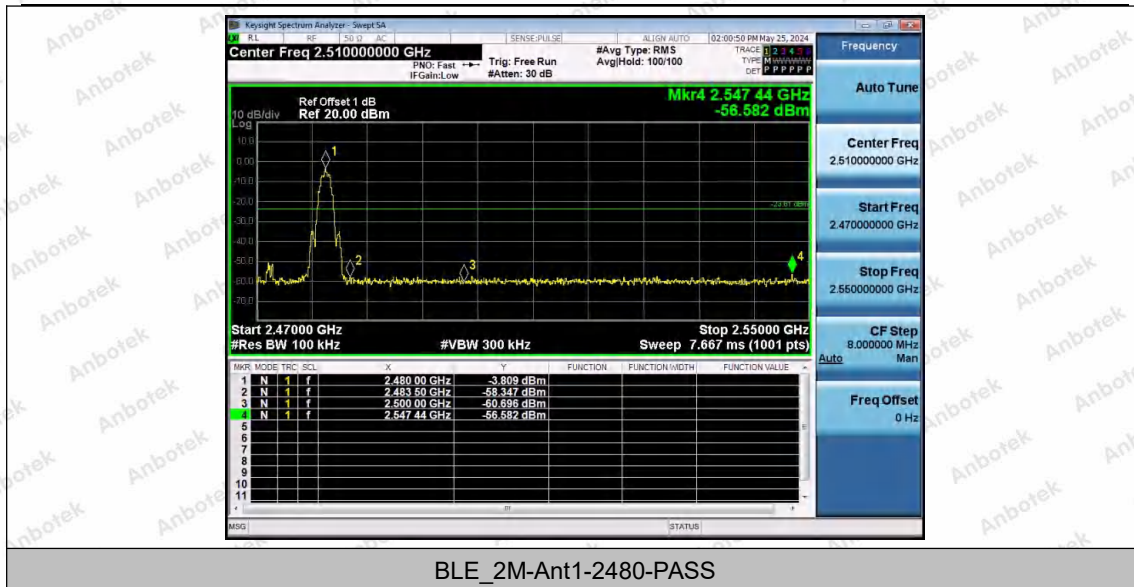
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BLE_2M-Ant1-2480-PASS

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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	-0.06	-0.06	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.06	-67.37	≤-20.06	PASS
BLE_1M	Ant1	2402	1000~26500	-0.06	-45.97	≤-20.06	PASS
BLE_1M	Ant1	2440	0~Reference	-2.14	-2.14	---	PASS
BLE_1M	Ant1	2440	30~1000	-2.14	-68.07	≤-22.14	PASS
BLE_1M	Ant1	2440	1000~26500	-2.14	-49.32	≤-22.14	PASS
BLE_1M	Ant1	2480	0~Reference	-2.86	-2.86	---	PASS
BLE_1M	Ant1	2480	30~1000	-2.86	-69.15	≤-22.86	PASS
BLE_1M	Ant1	2480	1000~26500	-2.86	-52.64	≤-22.86	PASS
BLE_2M	Ant1	2402	0~Reference	-0.01	-0.01	---	PASS
BLE_2M	Ant1	2402	30~1000	-0.01	-69.1	≤-20.01	PASS
BLE_2M	Ant1	2402	1000~26500	-0.01	-53.71	≤-20.01	PASS
BLE_2M	Ant1	2440	0~Reference	-1.83	-1.83	---	PASS
BLE_2M	Ant1	2440	30~1000	-1.83	-69.2	≤-21.83	PASS
BLE_2M	Ant1	2440	1000~26500	-1.83	-50.56	≤-21.83	PASS
BLE_2M	Ant1	2480	0~Reference	-5.53	-5.53	---	PASS
BLE_2M	Ant1	2480	30~1000	-5.53	-68.89	≤-25.53	PASS
BLE_2M	Ant1	2480	1000~26500	-5.53	-39.45	≤-25.53	PASS



Test Graphs



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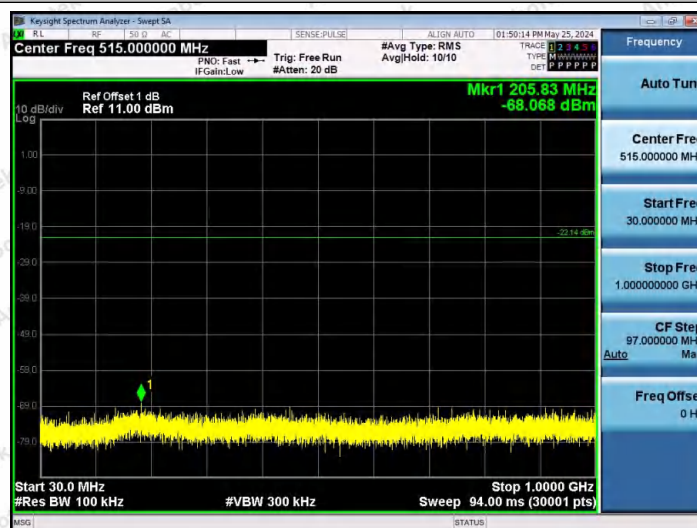


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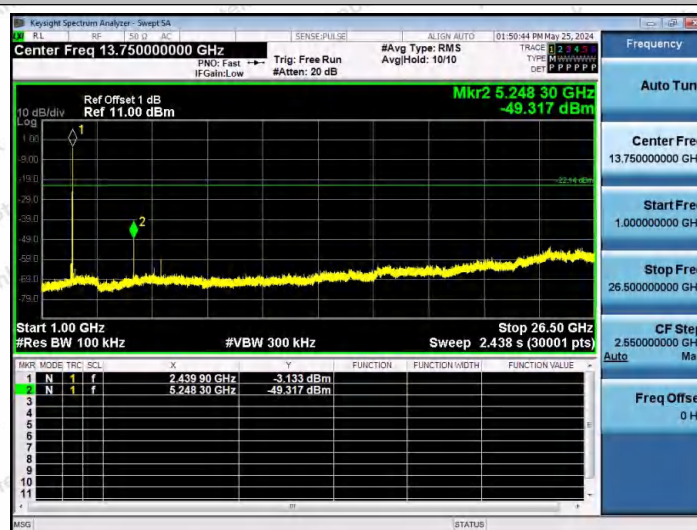




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS

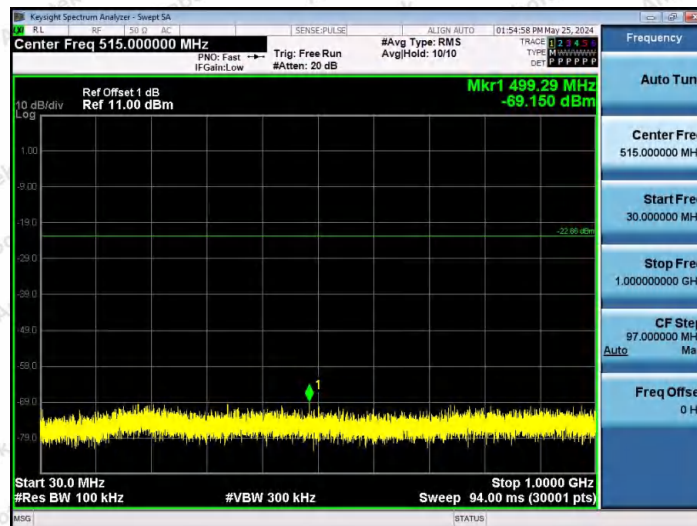


BLE_1M-Ant1-2440-1000~26500-PASS

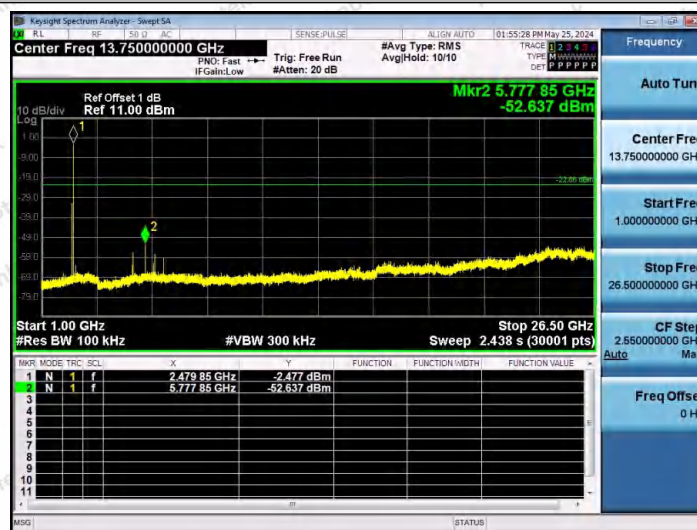




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS

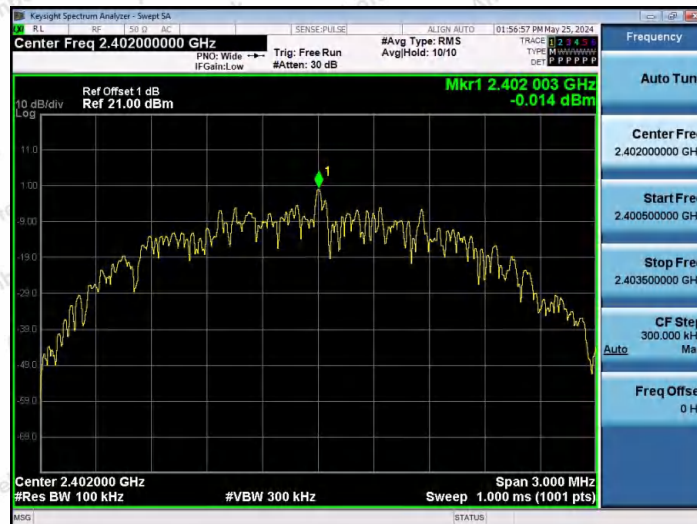
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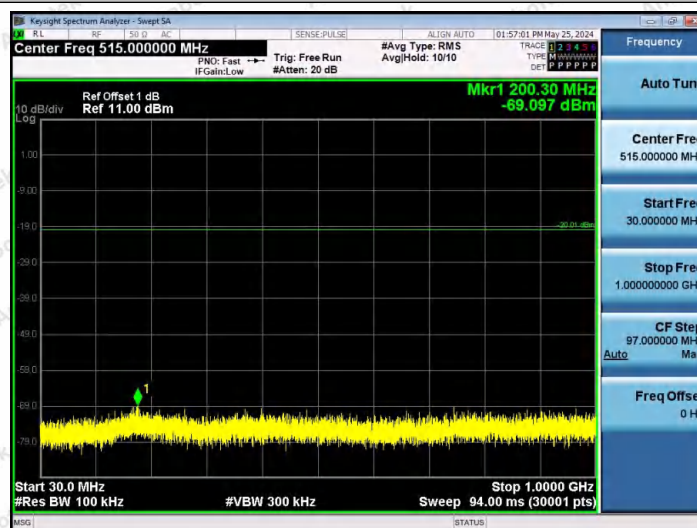


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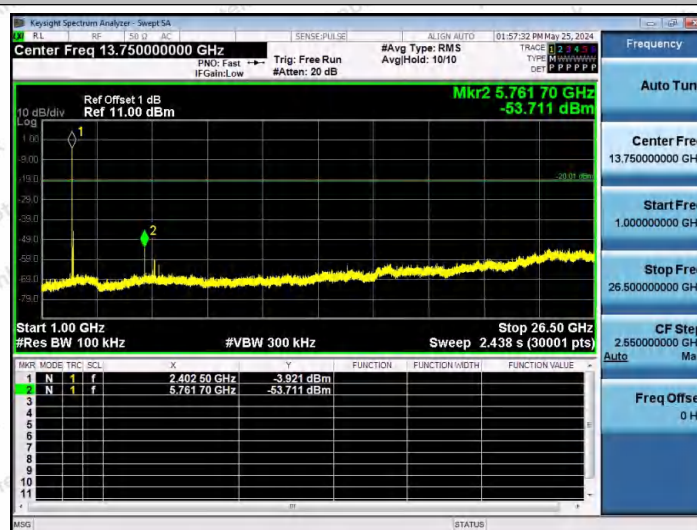




BLE_2M-Ant1-2402-0~Reference-PASS



BLE_2M-Ant1-2402-30~1000-PASS

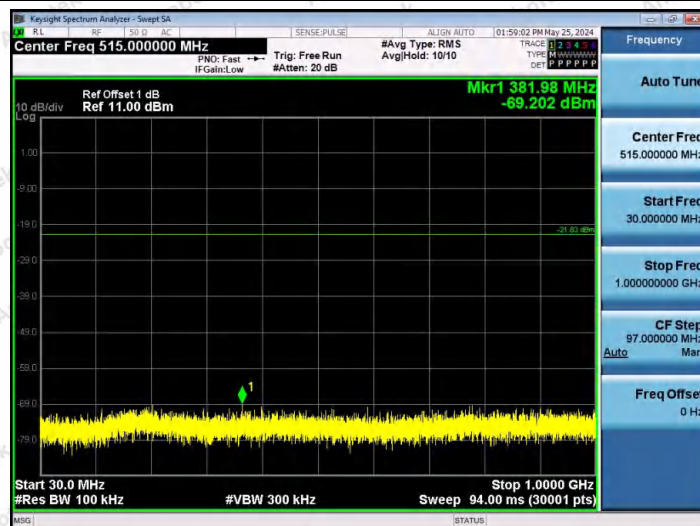


BLE_2M-Ant1-2402-1000~26500-PASS

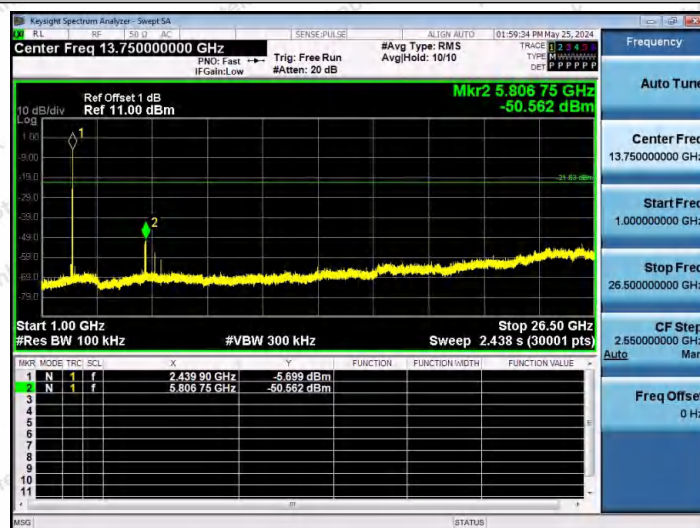




BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-PASS



BLE_2M-Ant1-2440-1000~26500-PASS

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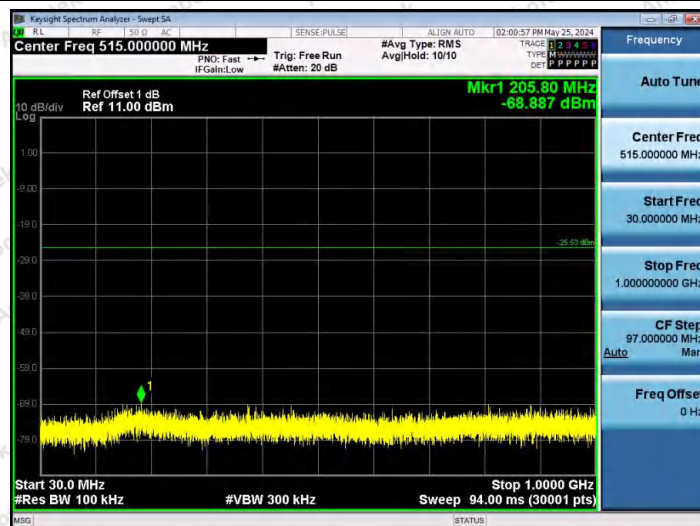


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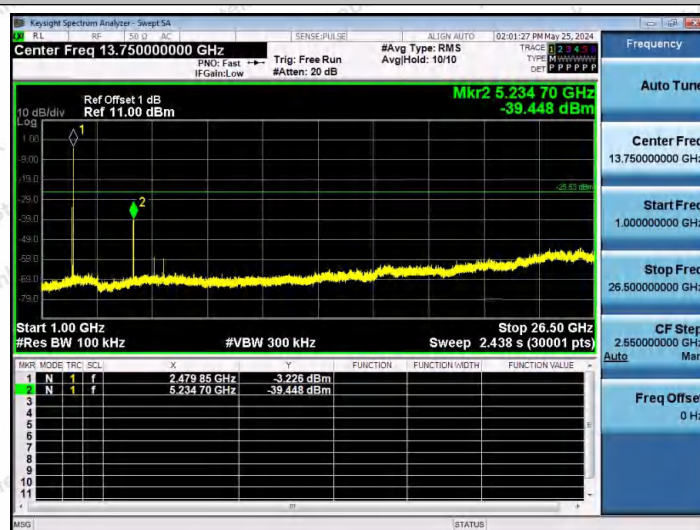




BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS

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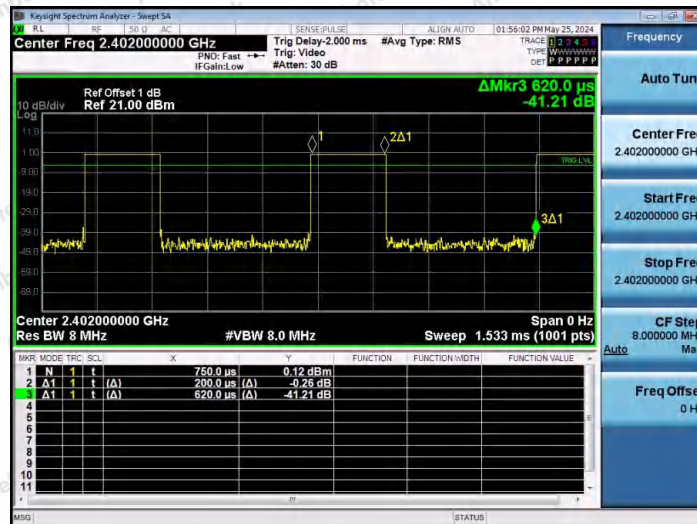


Appendix G: Duty Cycle

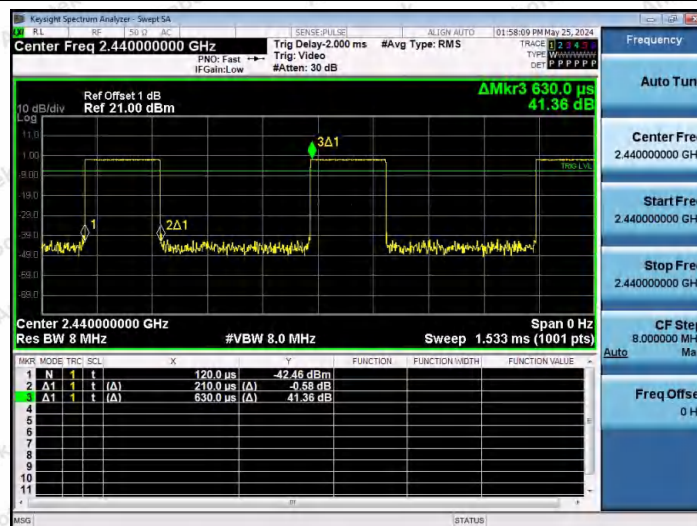
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.62	62.90	2.01
BLE_1M	Ant1	2440	0.40	0.63	63.49	1.97
BLE_1M	Ant1	2480	0.39	0.62	62.90	2.01
BLE_2M	Ant1	2402	0.20	0.62	32.26	4.91
BLE_2M	Ant1	2440	0.21	0.63	33.33	4.77
BLE_2M	Ant1	2480	0.21	0.63	33.33	4.77

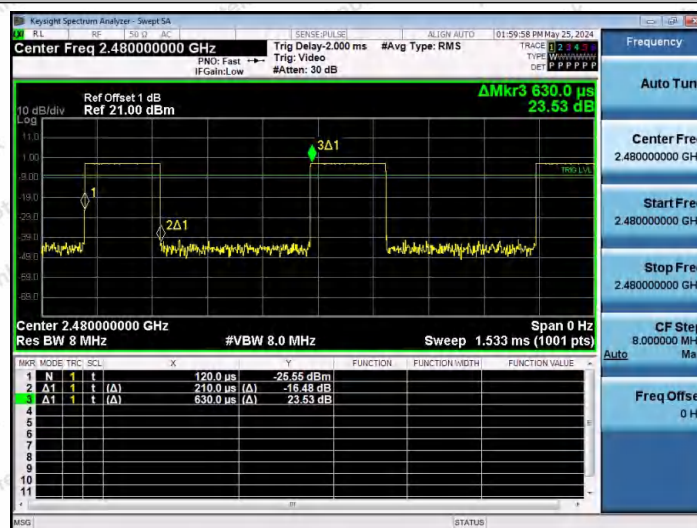




NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---End---

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