

Appendix Test Data

Report No.:	18220WC40091301	Test Sample No.:	1-2-2
Start Test Date:	2024.5.31	Finish Test Date:	2024.6.11
Test Engineer:	Joker Huang	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	0.660	2401.684	2402.344	0.5	PASS
BLE_1M	Ant1	2440	0.660	2439.672	2440.332	0.5	PASS
BLE_1M	Ant1	2480	0.692	2479.656	2480.348	0.5	PASS



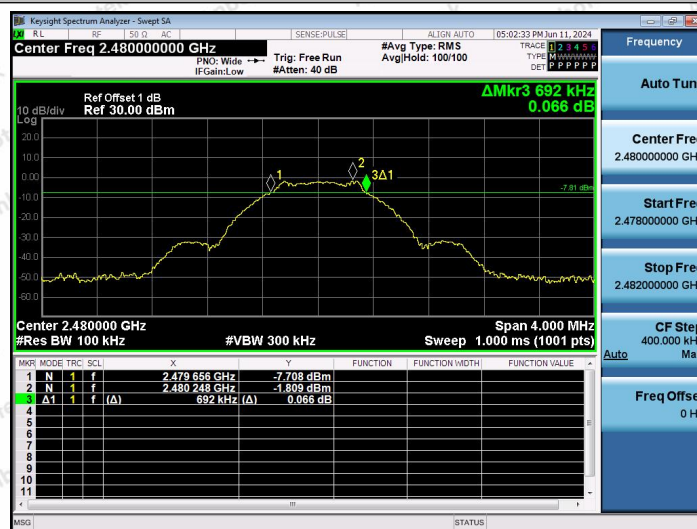
Test Graphs



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	1.0389	2401.4870	2402.5259	---	---
BLE_1M	Ant1	2440	1.0274	2439.4921	2440.5195	---	---
BLE_1M	Ant1	2480	1.0434	2479.4873	2480.5307	---	---

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Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



BLE_1M-Ant1-2480

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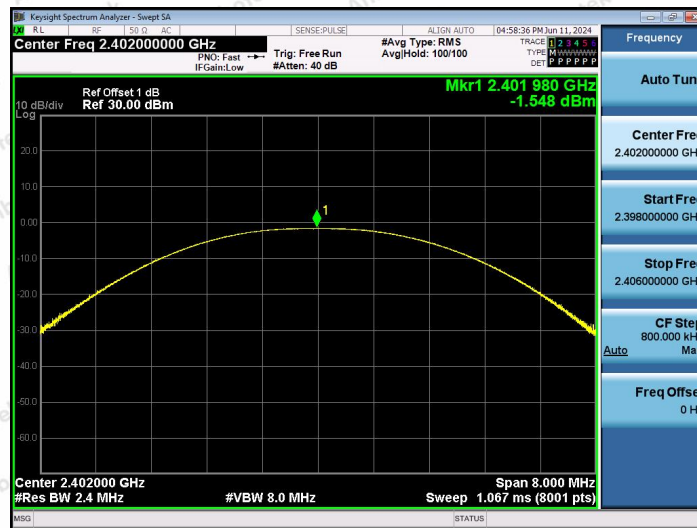
Appendix C: Maximum output power

Test Result Peak

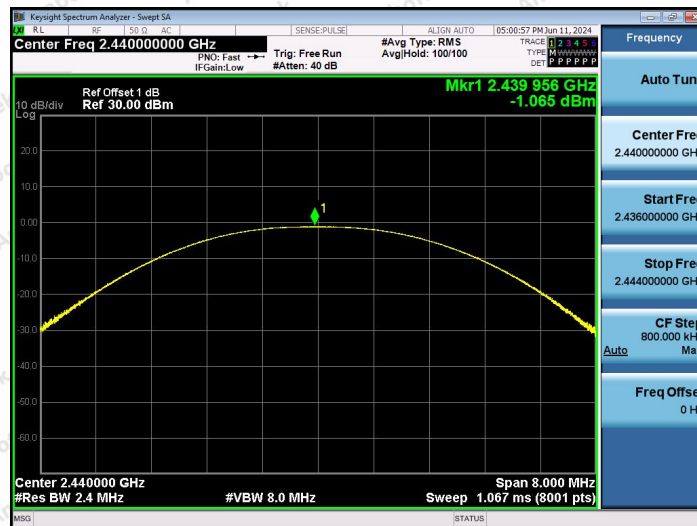
TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-1.55	≤30	-1.55	≤36	PASS
BLE_1M	Ant1	2440	-1.07	≤30	-1.07	≤36	PASS
BLE_1M	Ant1	2480	-0.71	≤30	-0.71	≤36	PASS



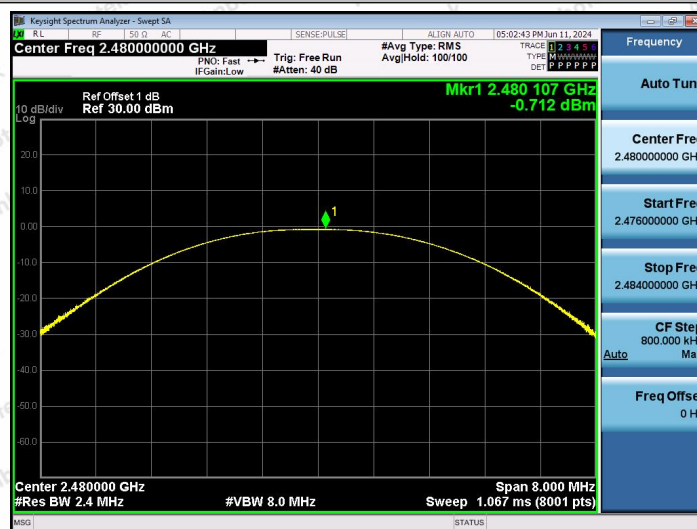
Test Graphs Peak



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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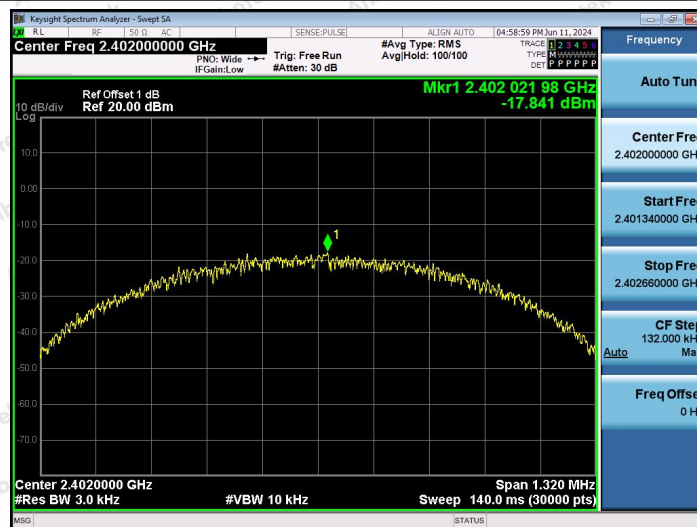
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.84	≤8.00	PASS
BLE_1M	Ant1	2440	-17.35	≤8.00	PASS
BLE_1M	Ant1	2480	-16.95	≤8.00	PASS



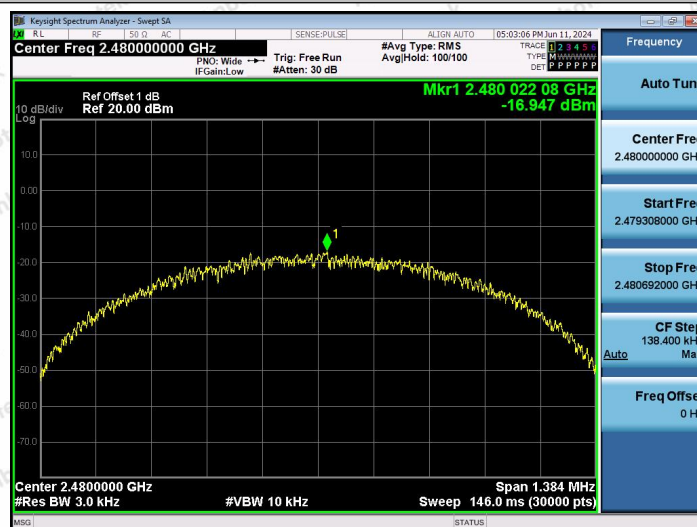
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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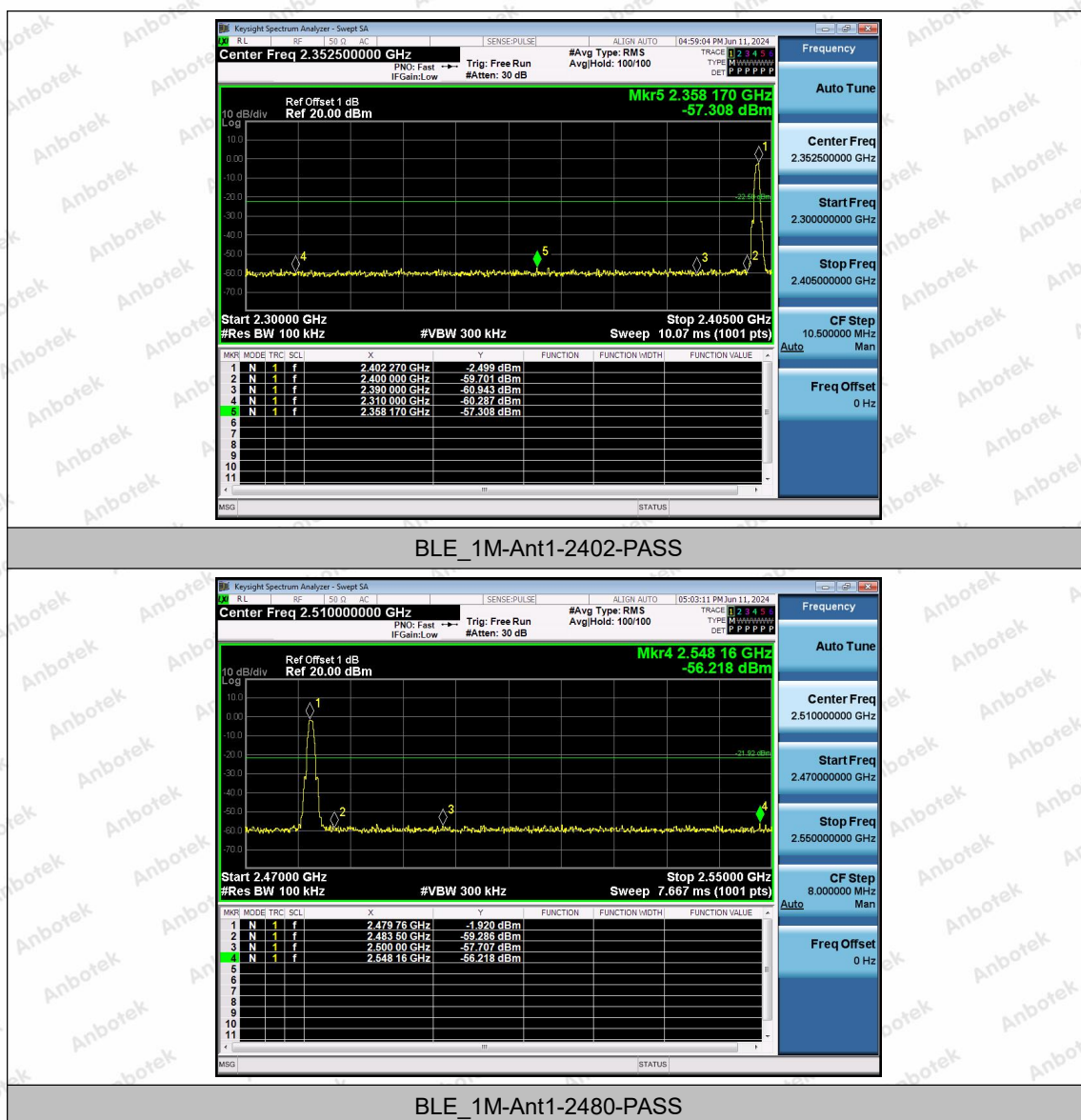


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.50	-57.31	≤-22.5	PASS
BLE_1M	Ant1	High	2480	-1.92	-56.22	≤-21.92	PASS

Test Graphs



Appendix F: Conducted Spurious Emission

Test Result

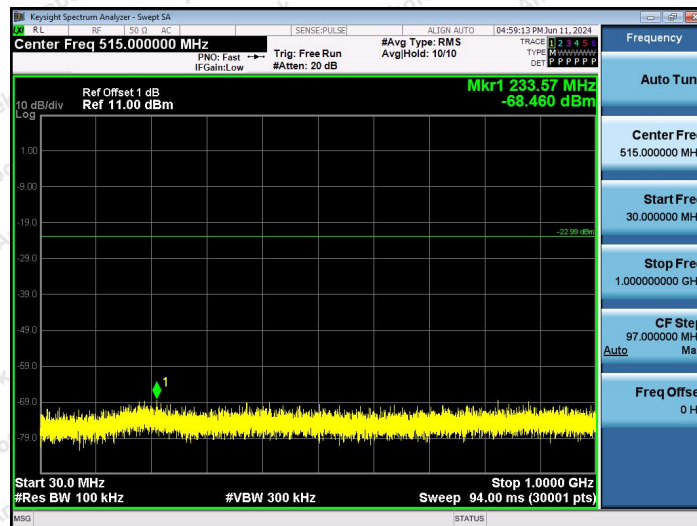
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-2.99	-2.99	---	PASS
BLE_1M	Ant1	2402	30~1000	-2.99	-68.46	≤-22.99	PASS
BLE_1M	Ant1	2402	1000~26500	-2.99	-53.61	≤-22.99	PASS
BLE_1M	Ant1	2440	0~Reference	-2.43	-2.43	---	PASS
BLE_1M	Ant1	2440	30~1000	-2.43	-68.7	≤-22.43	PASS
BLE_1M	Ant1	2440	1000~26500	-2.43	-53.38	≤-22.43	PASS
BLE_1M	Ant1	2480	0~Reference	-2.17	-2.17	---	PASS
BLE_1M	Ant1	2480	30~1000	-2.17	-68.36	≤-22.17	PASS
BLE_1M	Ant1	2480	1000~26500	-2.17	-52.99	≤-22.17	PASS



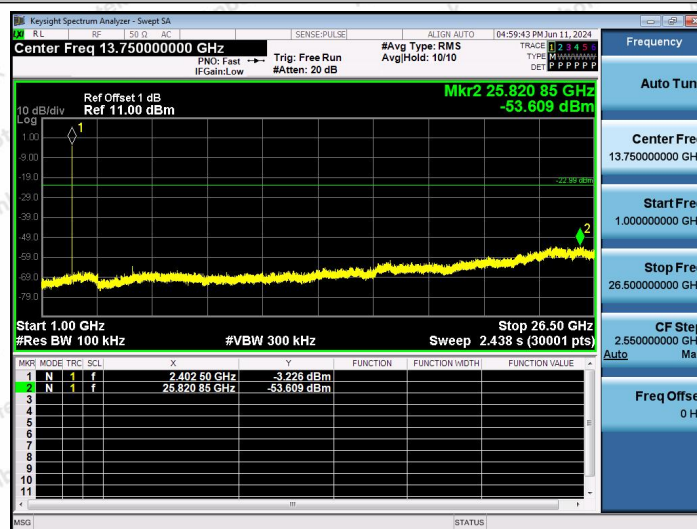
Test Graphs



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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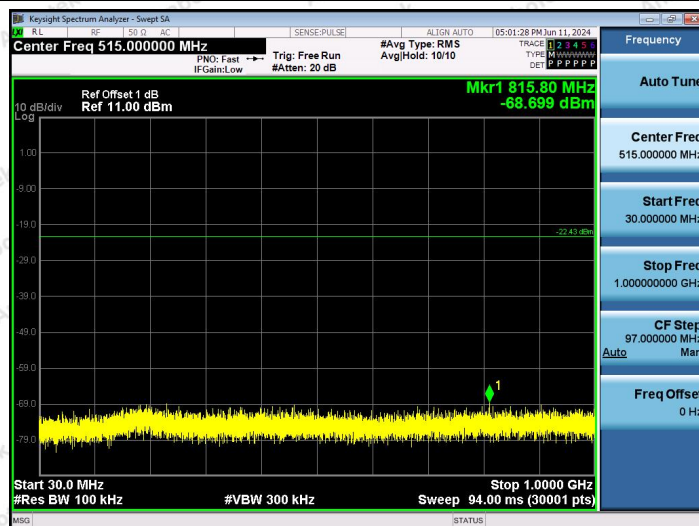


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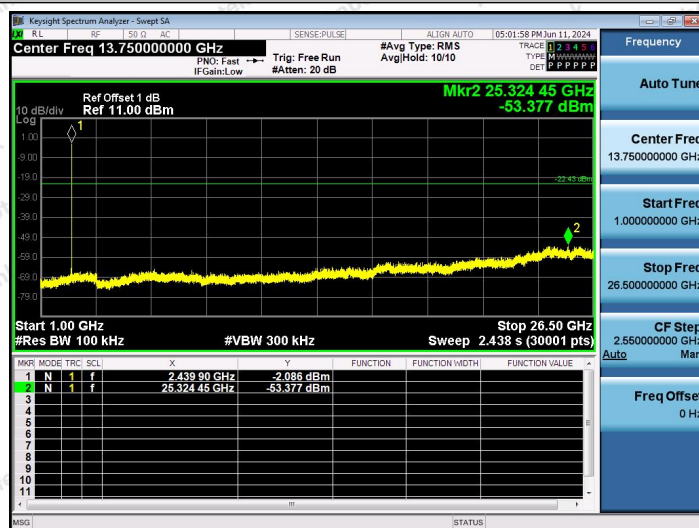




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

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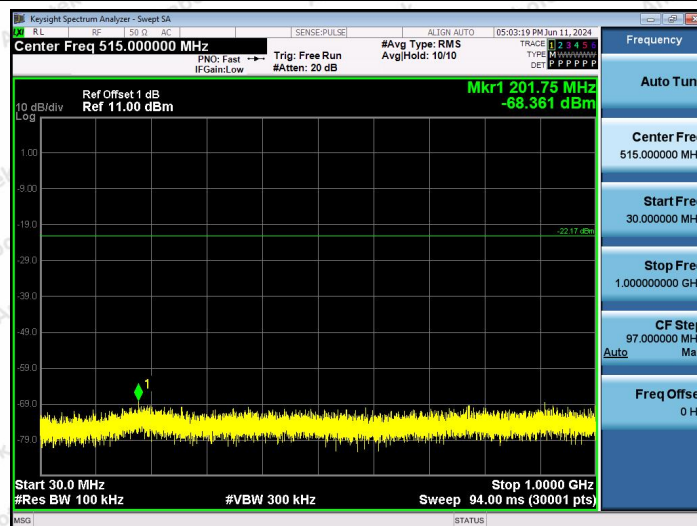


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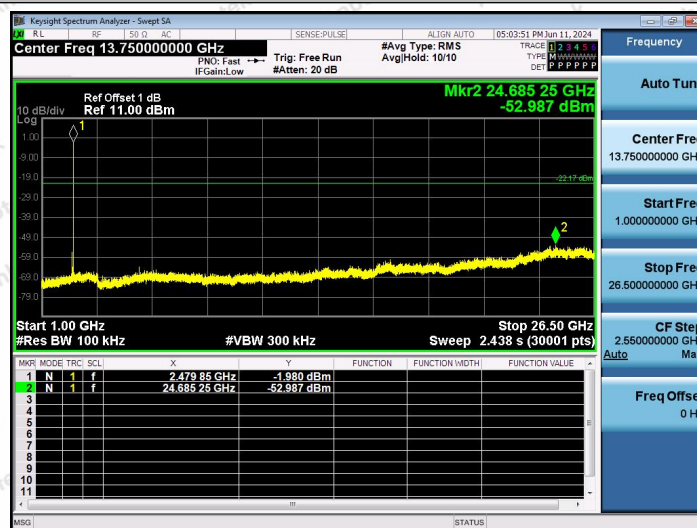




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS

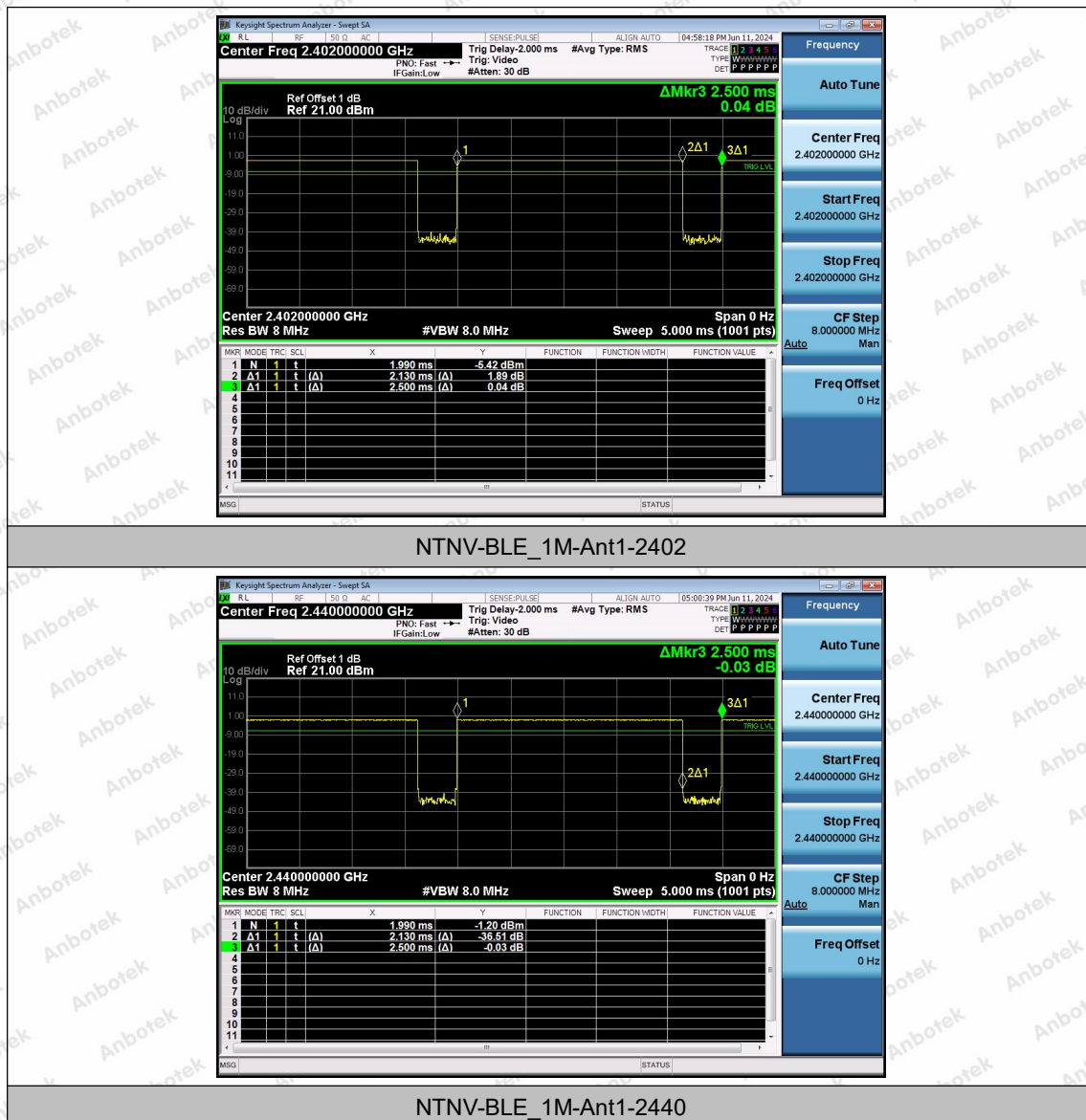


Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	2.50	85.20	0.70
BLE_1M	Ant1	2440	2.13	2.50	85.20	0.70
BLE_1M	Ant1	2480	2.13	2.50	85.20	0.70

Test Graphs



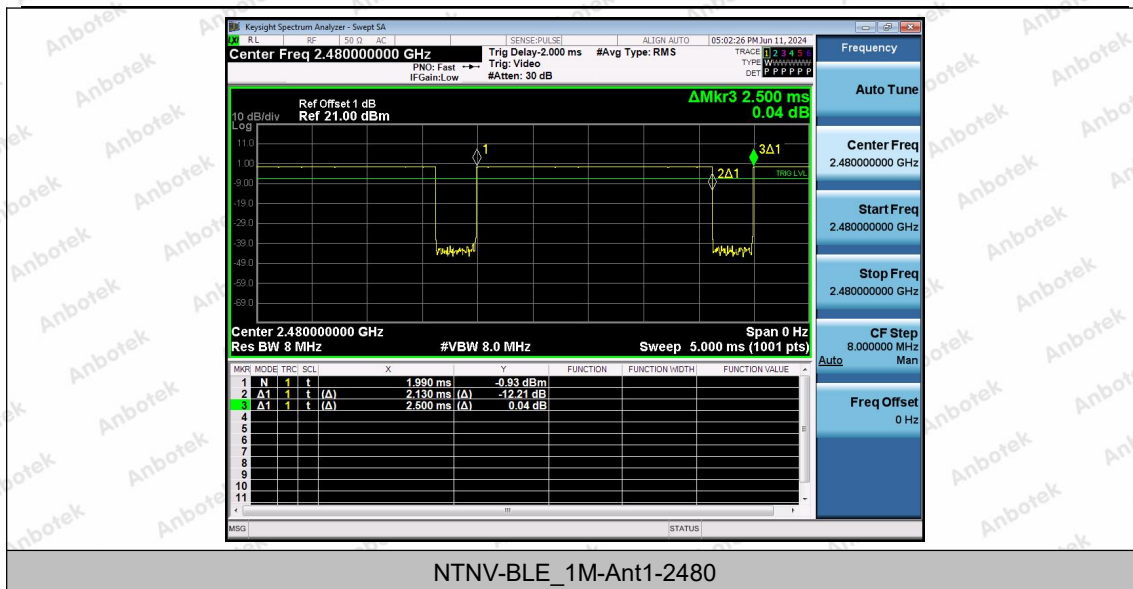
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