

## 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:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.3°C	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

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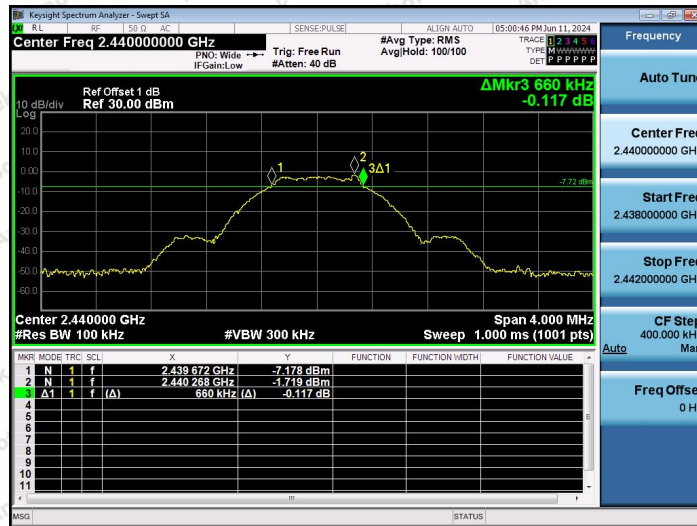
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## Test Graphs



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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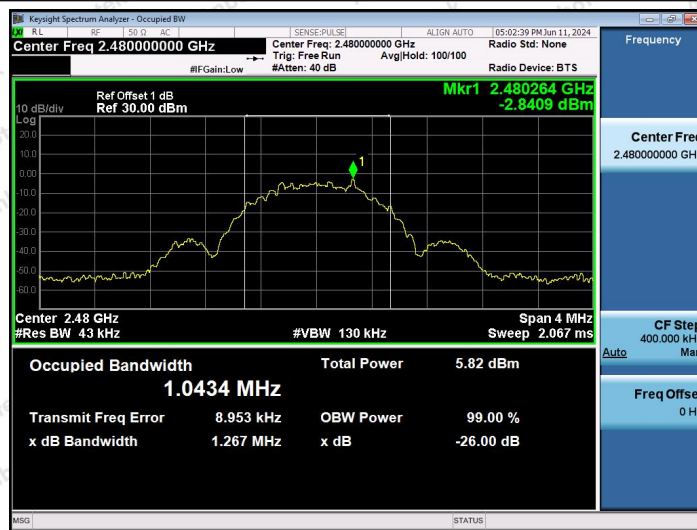
## Test Graphs



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

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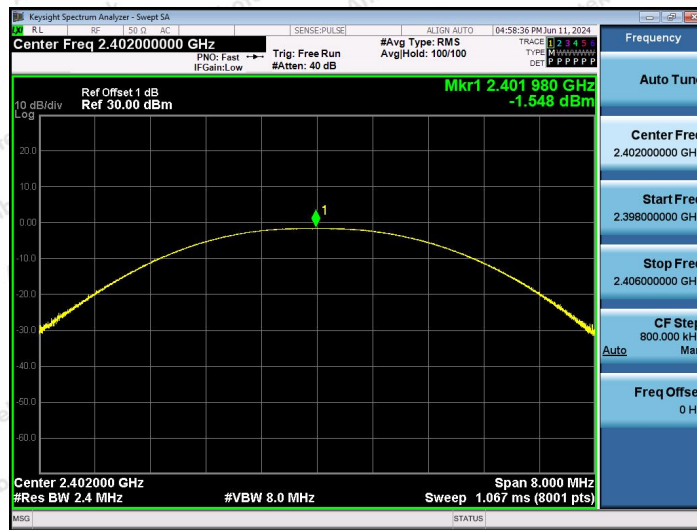
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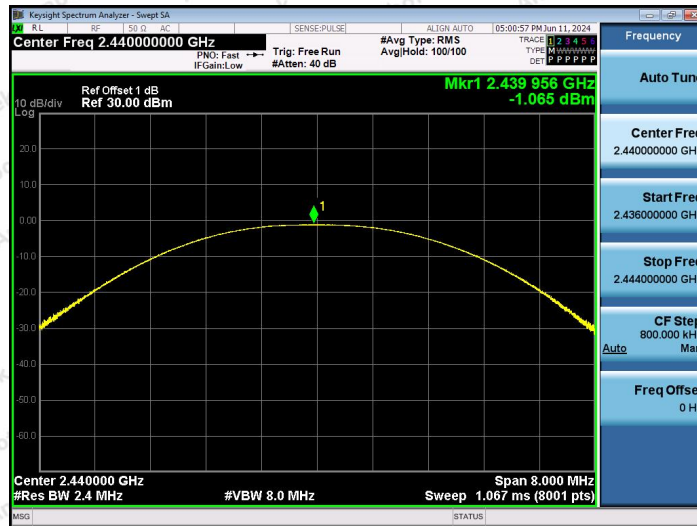
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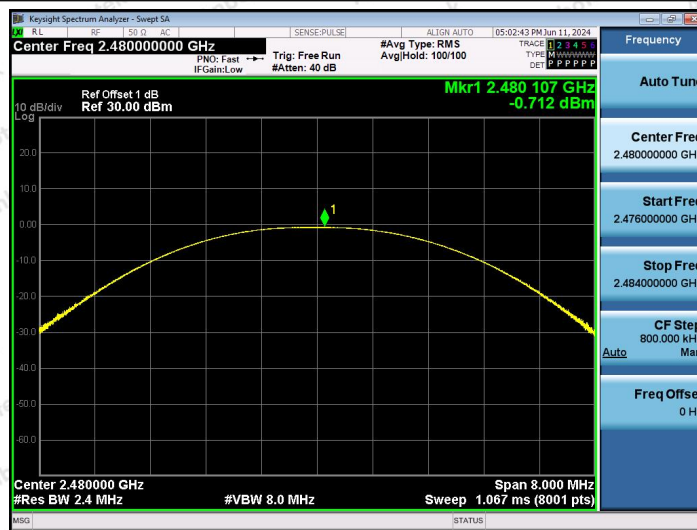
## Test Graphs Peak



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

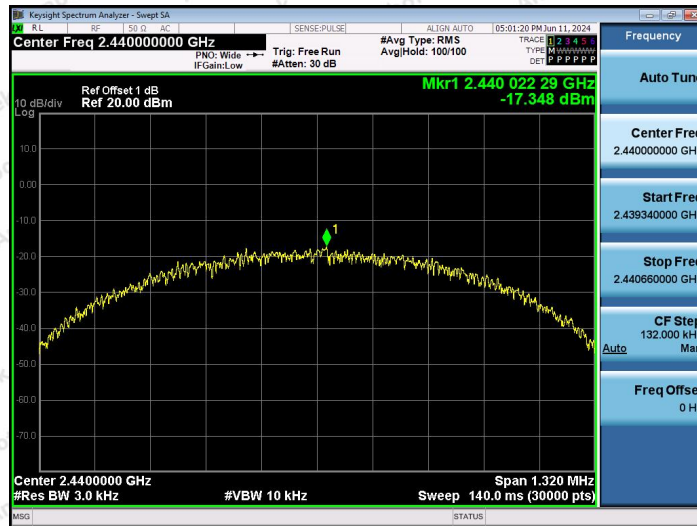
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.84	≤8.00	PASS
BLE_1M	Ant1	2440	-17.35	≤8.00	PASS
BLE_1M	Ant1	2480	-16.95	≤8.00	PASS



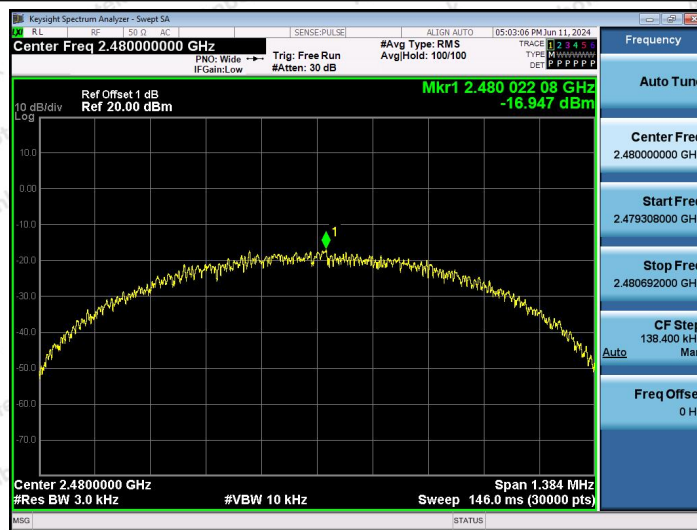
## Test Graphs



BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2440-PASS



BLE\_1M-Ant1-2480-PASS

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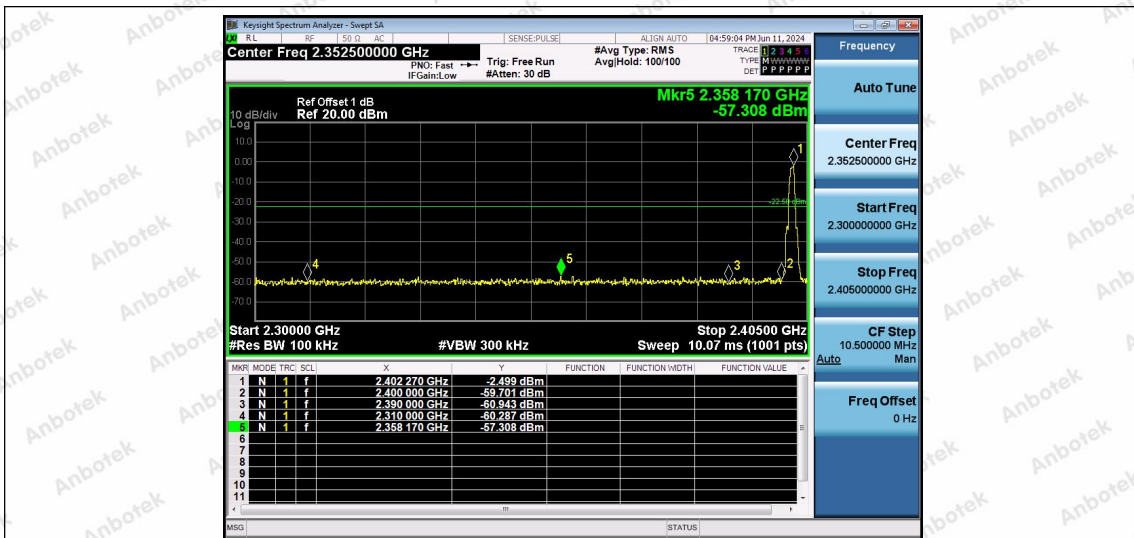


## Appendix E: Band edge measurements

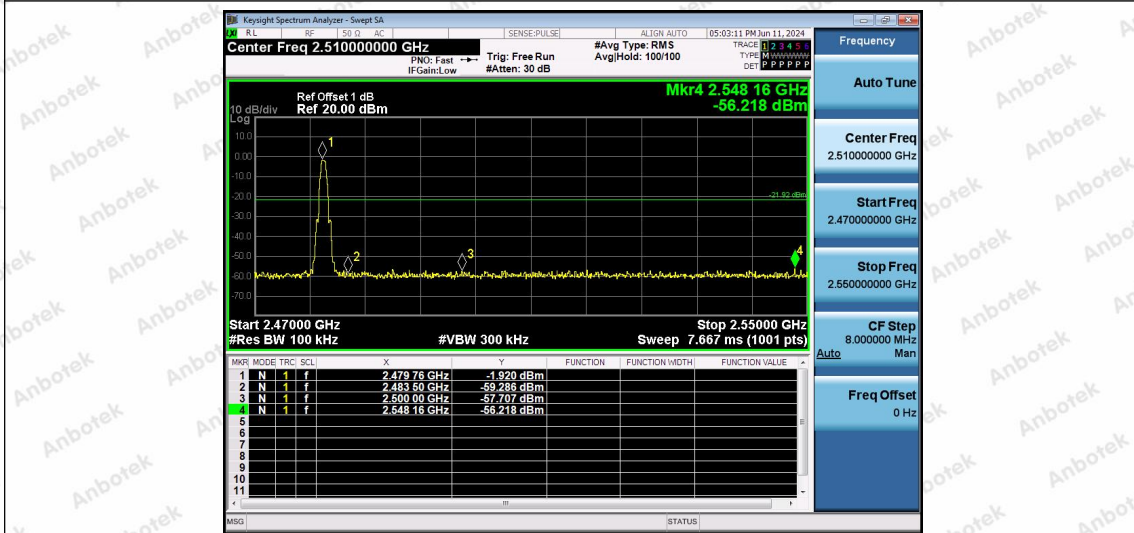
### Test Result

TestMod	Antenn	ChNam	Frequency[MHz	RefLevel[dBm	Result[dBm	Limit[dBm	Verdic
e	a	e	]	]	]	]	t
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



BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2480-PASS



## Appendix F: Conducted Spurious Emission

### Test Result

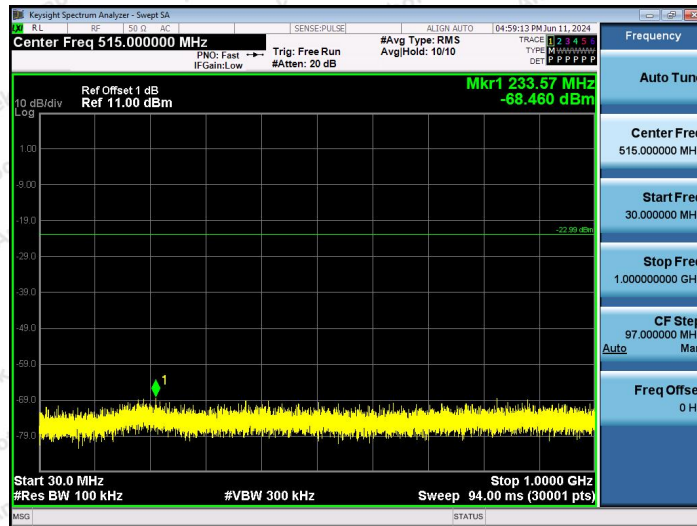
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-2.99	-2.99	---	PASS
BLE_1M	Ant1	2402	30~1000	-2.99	-68.46	≤-22.99	PASS
BLE_1M	Ant1	2402	1000~26500	-2.99	-53.61	≤-22.99	PASS
BLE_1M	Ant1	2440	0~Reference	-2.43	-2.43	---	PASS
BLE_1M	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



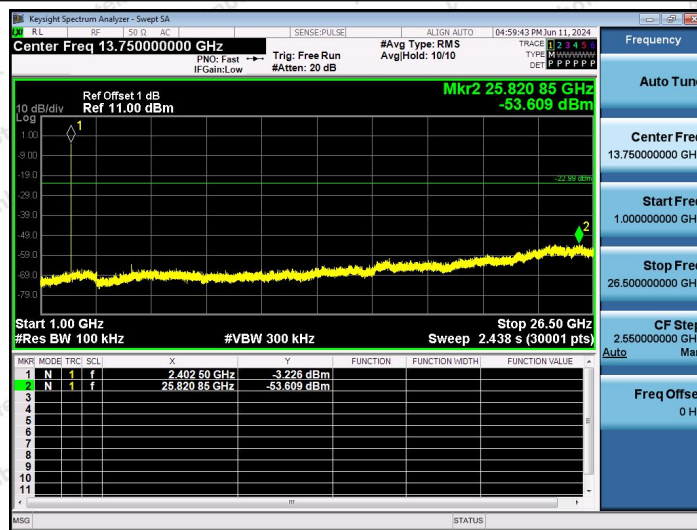
## Test Graphs



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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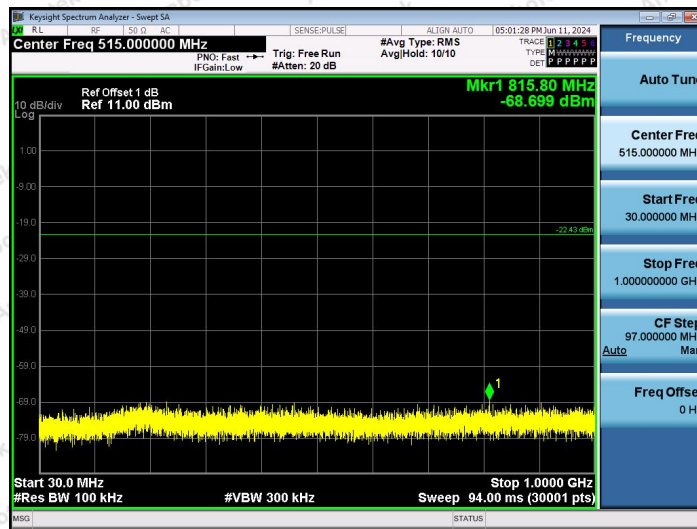
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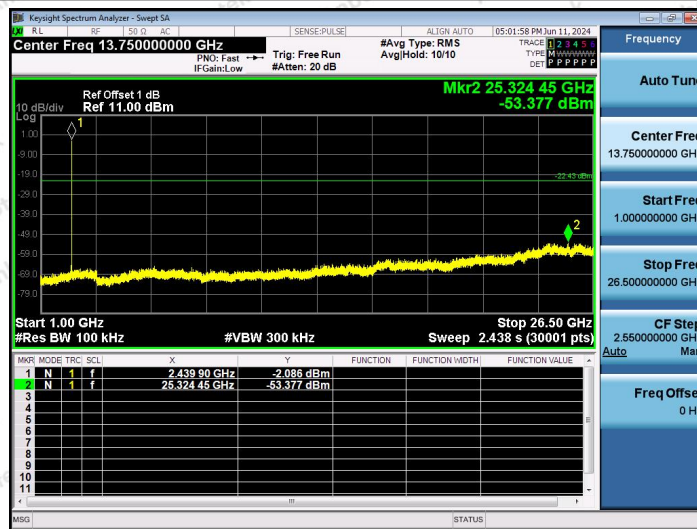




BLE\_1M-Ant1-2440-0~Reference-PASS



BLE\_1M-Ant1-2440-30~1000-PASS



BLE\_1M-Ant1-2440-1000~26500-PASS

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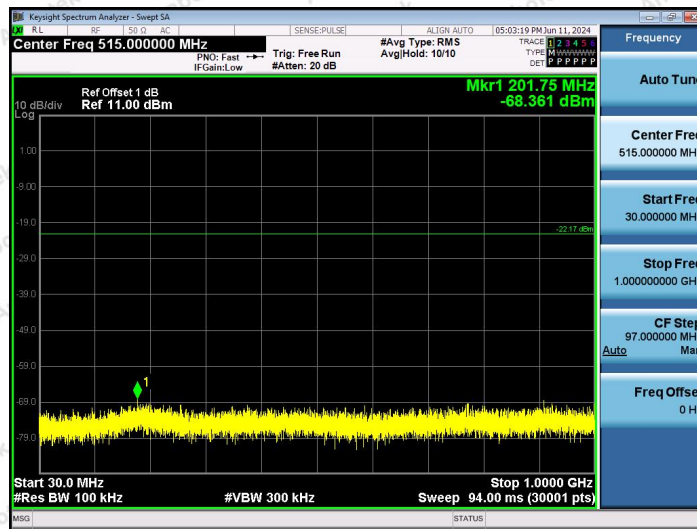
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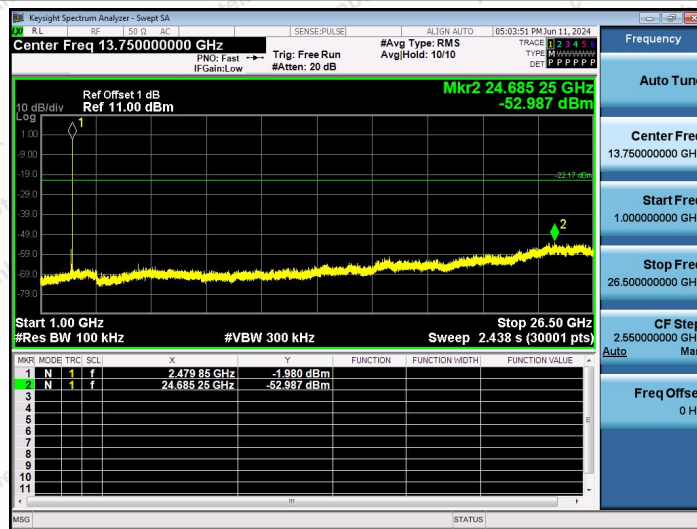




BLE\_1M-Ant1-2480-0~Reference-PASS



BLE\_1M-Ant1-2480-30~1000-PASS



BLE\_1M-Ant1-2480-1000~26500-PASS

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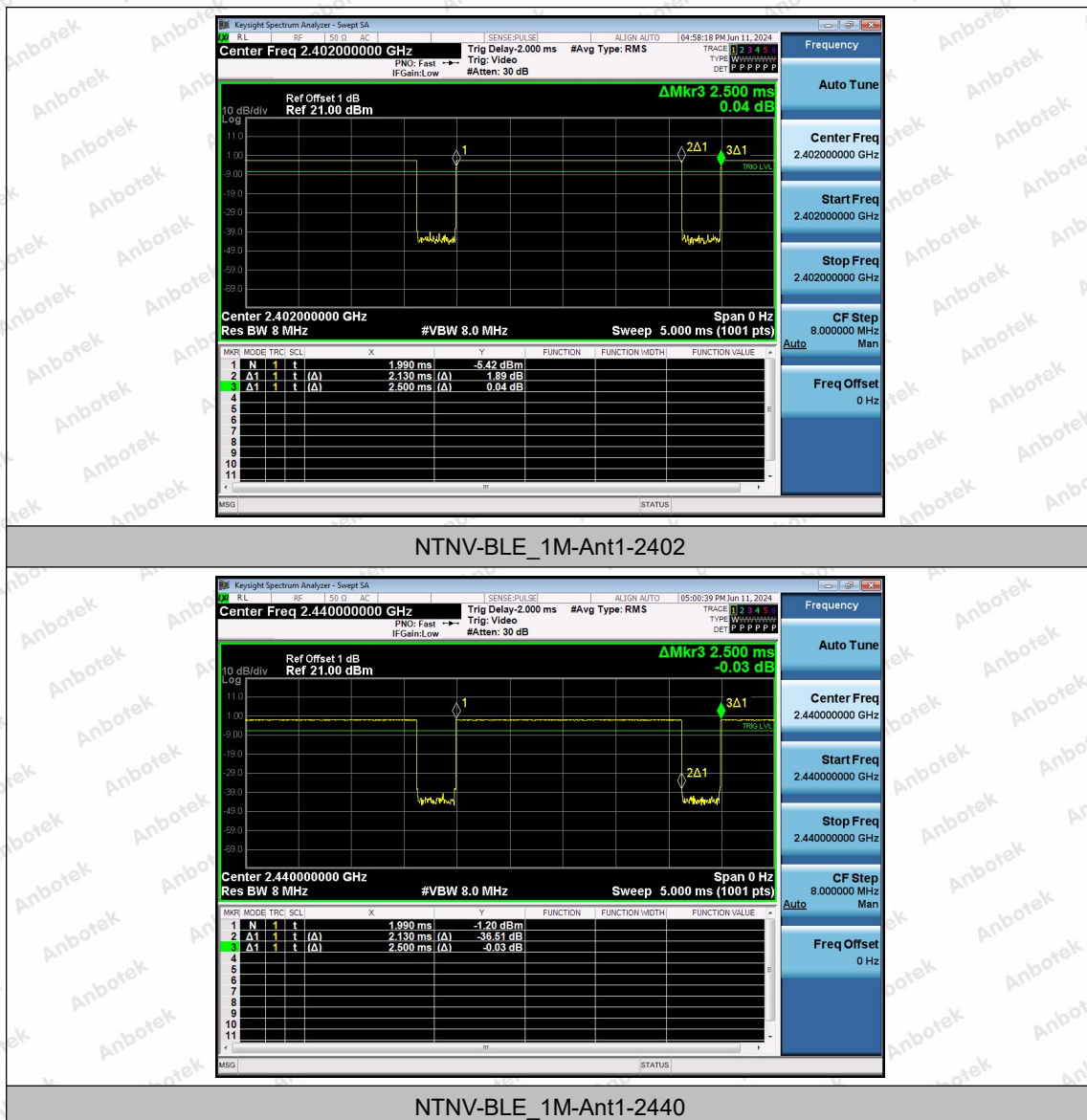


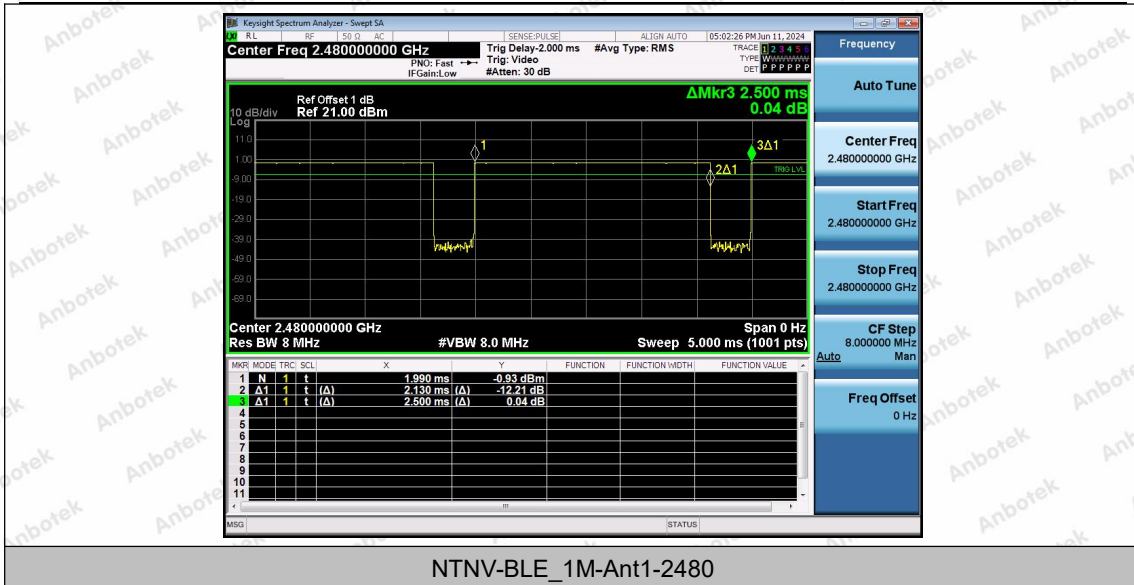
## Appendix G: Duty Cycle

### Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	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





NTNV-BLE\_1M-Ant1-2480

---End---

