

Appendix Test Data

Report No.:	182514C400055101	Test Sample No.:	1-2-2
Start Test Date:	2024.7.23	Finish Test Date:	2024.7.23
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	0.676	2401.652	2402.328	0.5	PASS
BLE_1M	Ant1	2440	0.656	2439.672	2440.328	0.5	PASS
BLE_1M	Ant1	2480	0.648	2479.668	2480.316	0.5	PASS



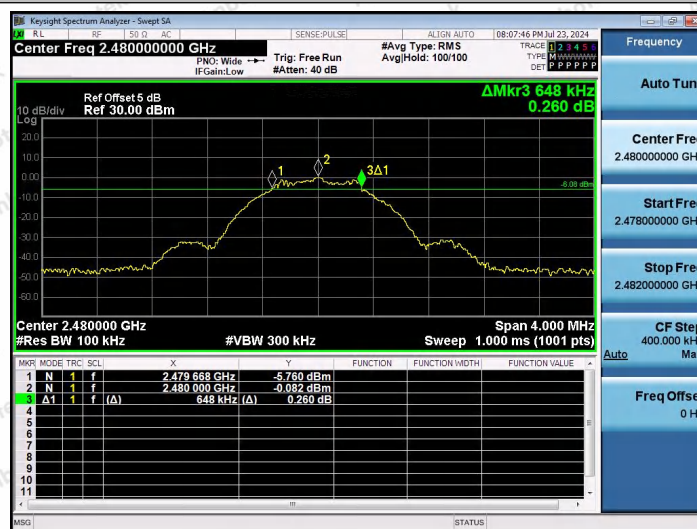
Test Graphs



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	1.0357	2401.4904	2402.5261	---	---
BLE_1M	Ant1	2440	1.0362	2439.4859	2440.5221	---	---
BLE_1M	Ant1	2480	1.0266	2479.4916	2480.5182	---	---



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	2.88	≤30	PASS
BLE_1M	Ant1	2440	1.72	≤30	PASS
BLE_1M	Ant1	2480	0.30	≤30	PASS

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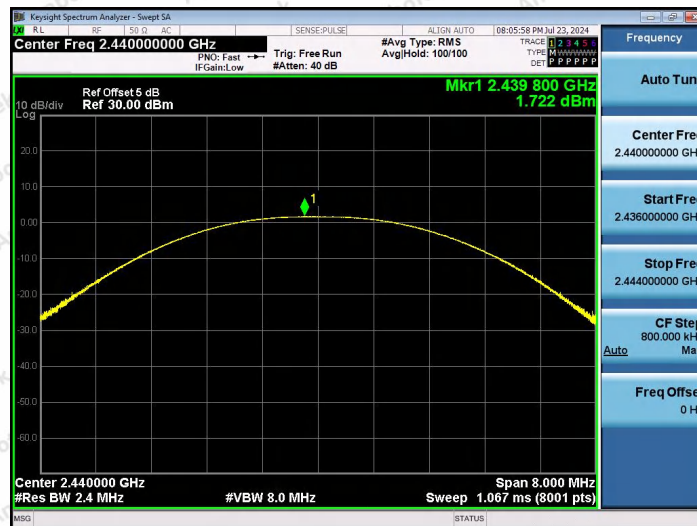
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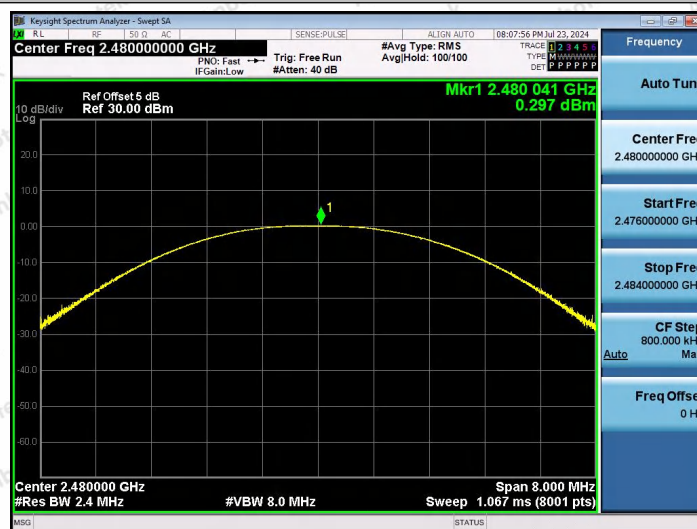
Test Graphs Peak



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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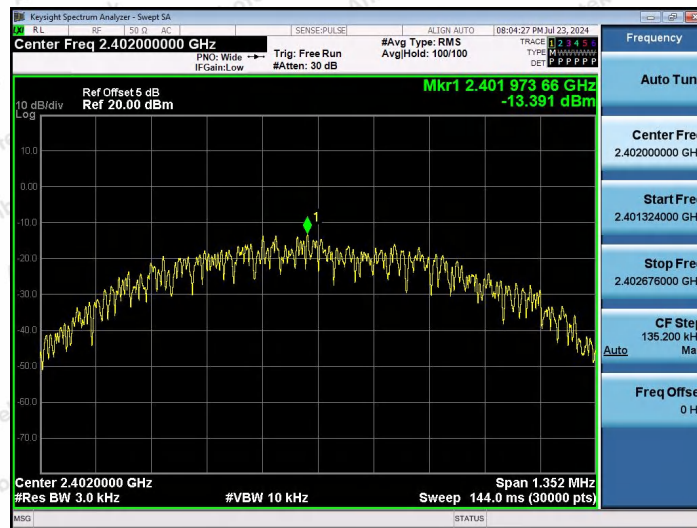
Appendix D: Maximum power spectral density

Test Result

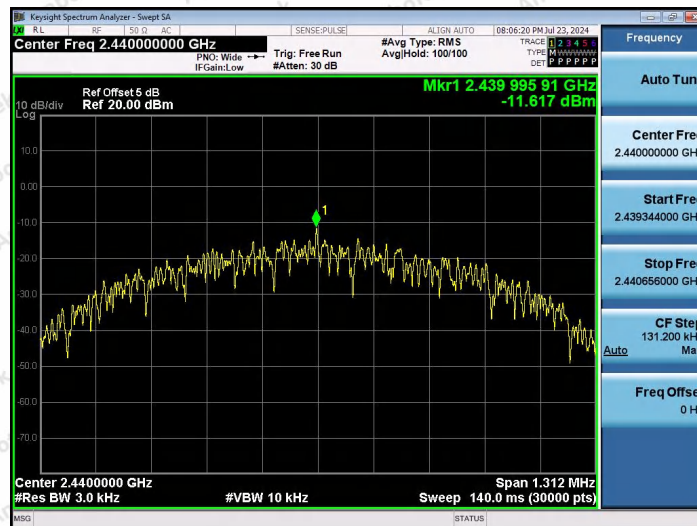
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.39	≤8.00	PASS
BLE_1M	Ant1	2440	-11.62	≤8.00	PASS
BLE_1M	Ant1	2480	-15.92	≤8.00	PASS



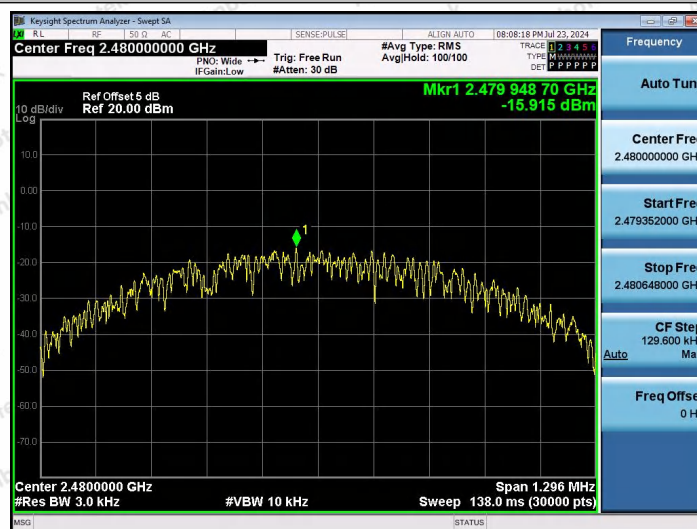
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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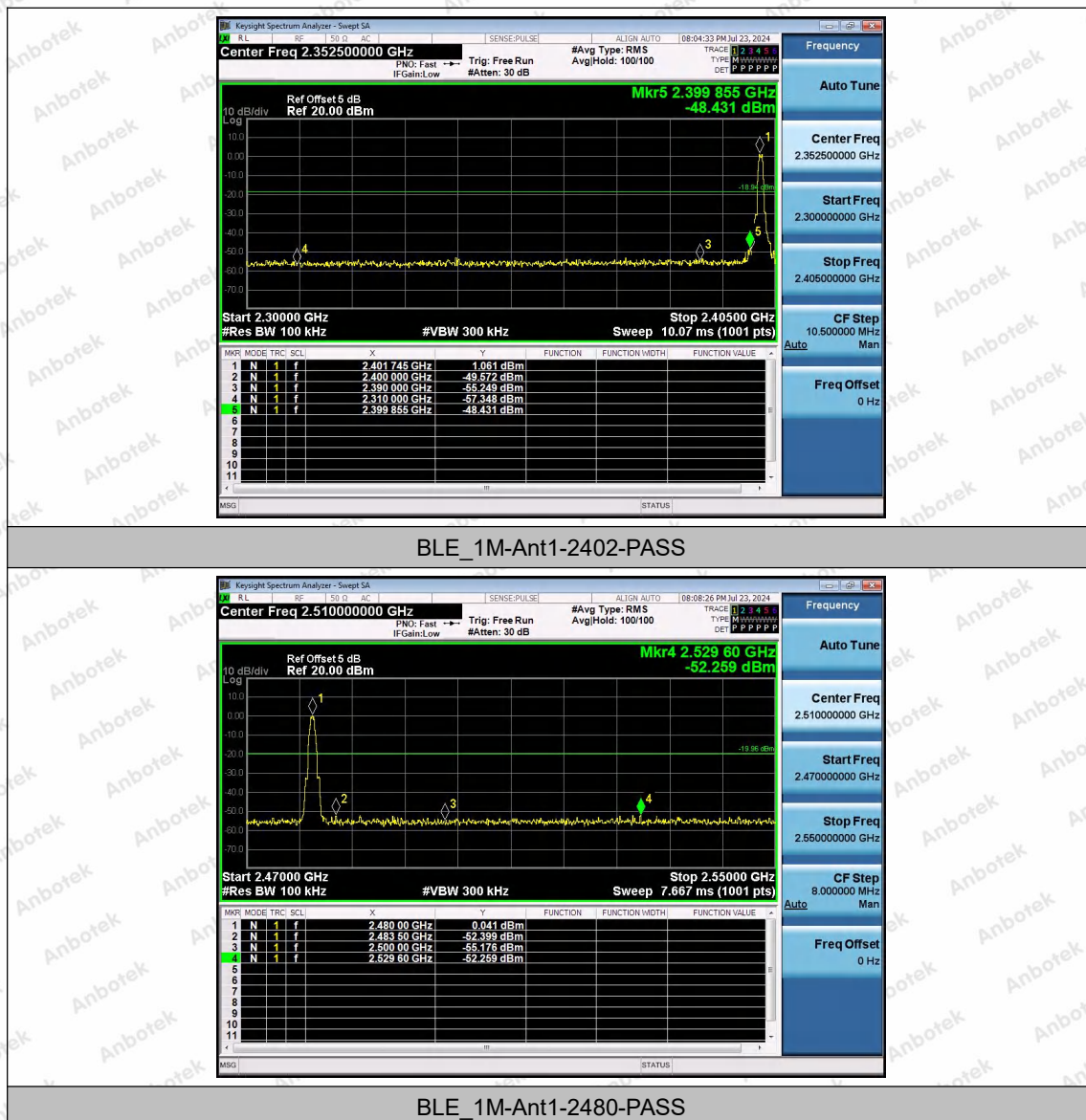


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.06	-48.43	≤-18.94	PASS
BLE_1M	Ant1	High	2480	0.04	-52.26	≤-19.96	PASS

Test Graphs



Appendix F: Conducted Spurious Emission

Test Result

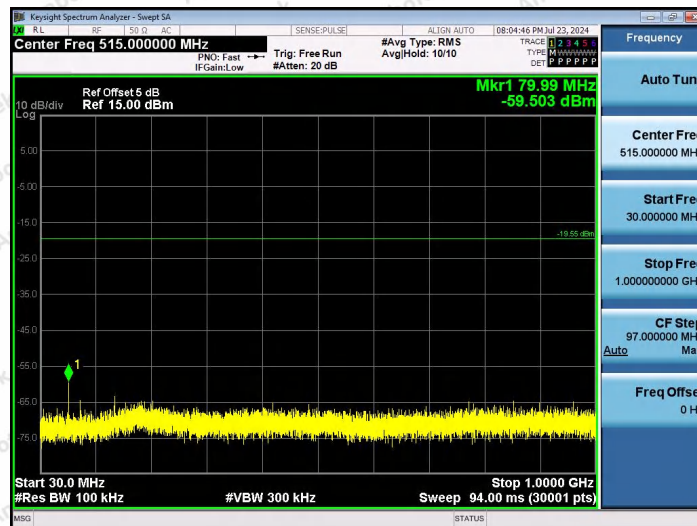
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	0.45	0.45	---	PASS
BLE_1M	Ant1	2402	30~1000	0.45	-59.5	≤-19.55	PASS
BLE_1M	Ant1	2402	1000~26500	0.45	-49.28	≤-19.55	PASS
BLE_1M	Ant1	2440	0~Reference	-0.08	-0.08	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.08	-59.33	≤-20.08	PASS
BLE_1M	Ant1	2440	1000~26500	-0.08	-49.55	≤-20.08	PASS
BLE_1M	Ant1	2480	0~Reference	-0.24	-0.24	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.24	-58.57	≤-20.24	PASS
BLE_1M	Ant1	2480	1000~26500	-0.24	-48.69	≤-20.24	PASS



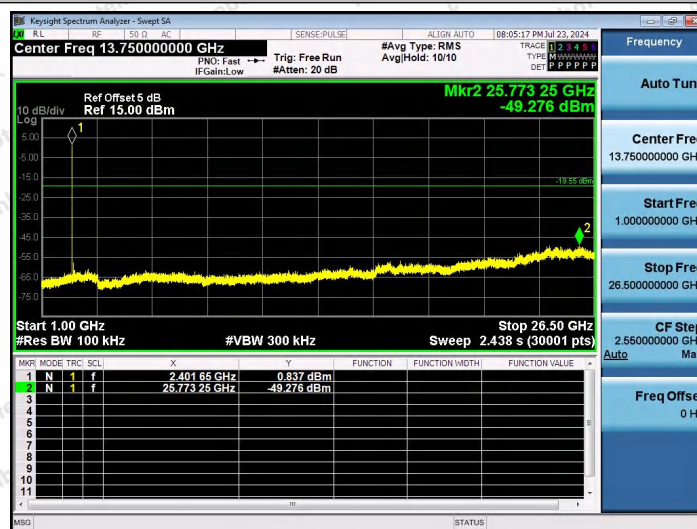
Test Graphs



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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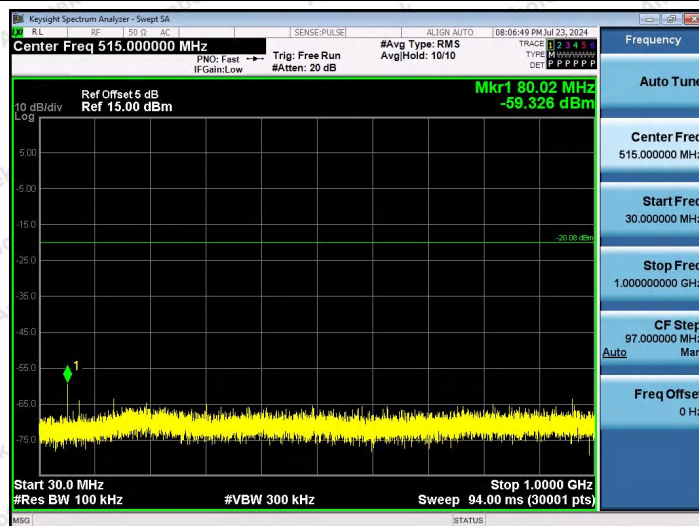


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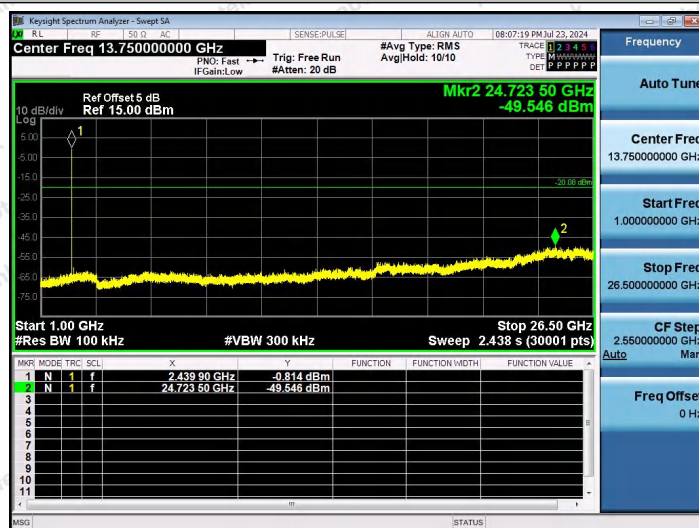




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

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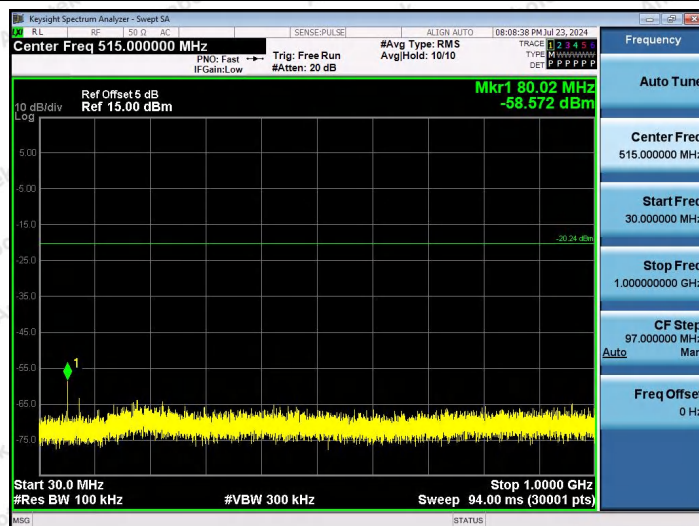


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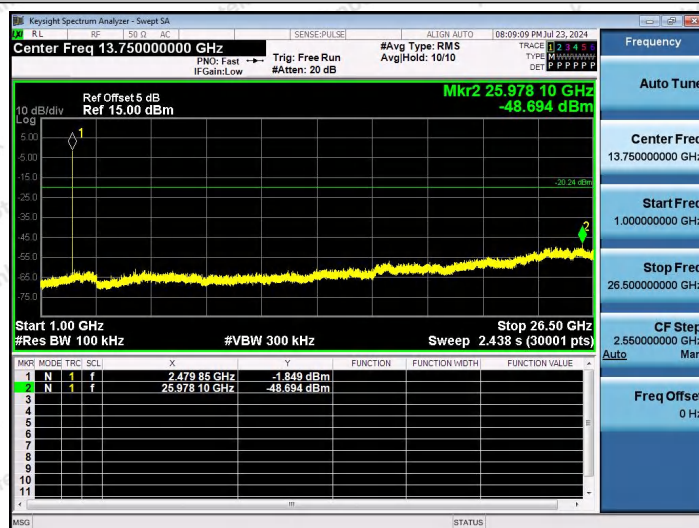




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS

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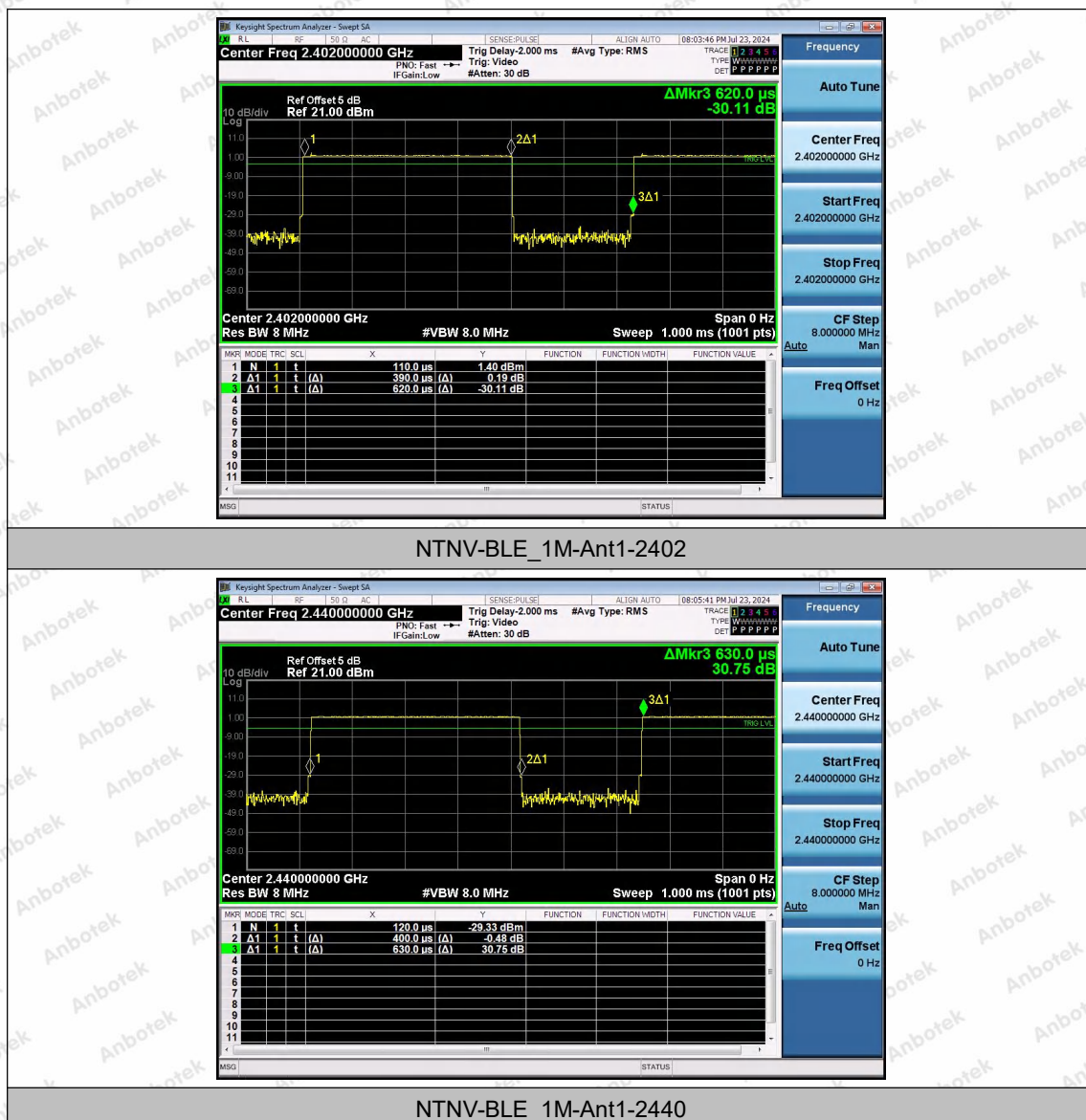


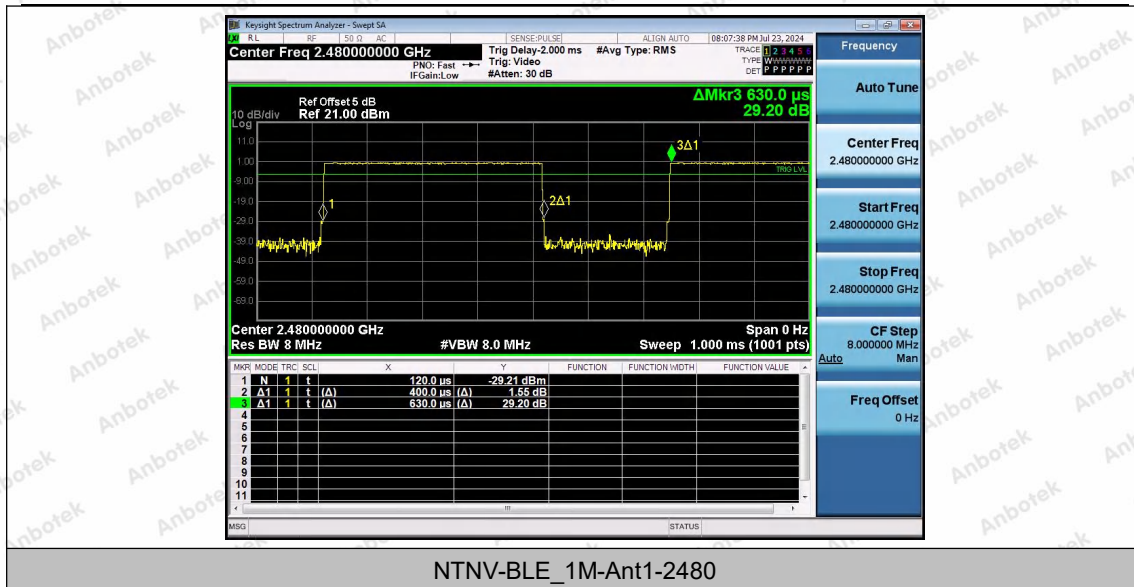
Appendix G: Duty Cycle

Test Result

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

Test Graphs





---End---

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