

Appendix Test Data

Report No.:	1813C40131912502	Test Sample No.:	1-2-2
Start Test Date:	2024.10.28	Finish Test Date:	2024.10.28
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	0.716	2401.636	2402.352	0.5	PASS
BLE_1M	Ant1	2440	0.772	2439.636	2440.408	0.5	PASS
BLE_1M	Ant1	2480	0.740	2479.668	2480.408	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	1.0862	2401.4514	2402.5376	---	---
BLE_1M	Ant1	2440	1.0848	2439.4522	2440.5370	---	---
BLE_1M	Ant1	2480	1.0852	2479.4500	2480.5352	---	---

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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	0.32	≤30	PASS
BLE_1M	Ant1	2440	-0.11	≤30	PASS
BLE_1M	Ant1	2480	-0.76	≤30	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	-15.35	≤8.00	PASS
BLE_1M	Ant1	2440	-15.68	≤8.00	PASS
BLE_1M	Ant1	2480	-16.33	≤8.00	PASS

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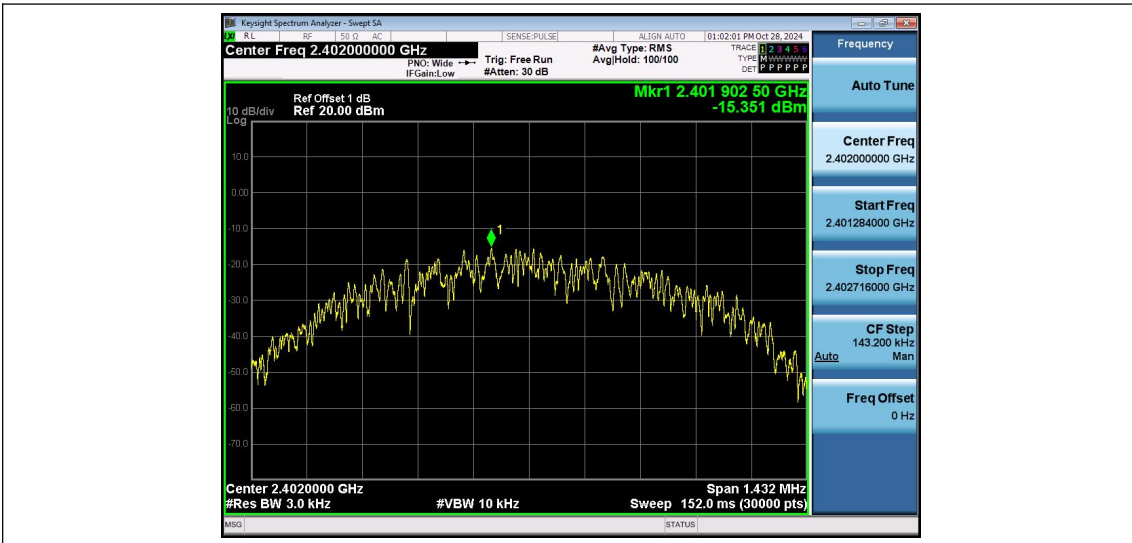
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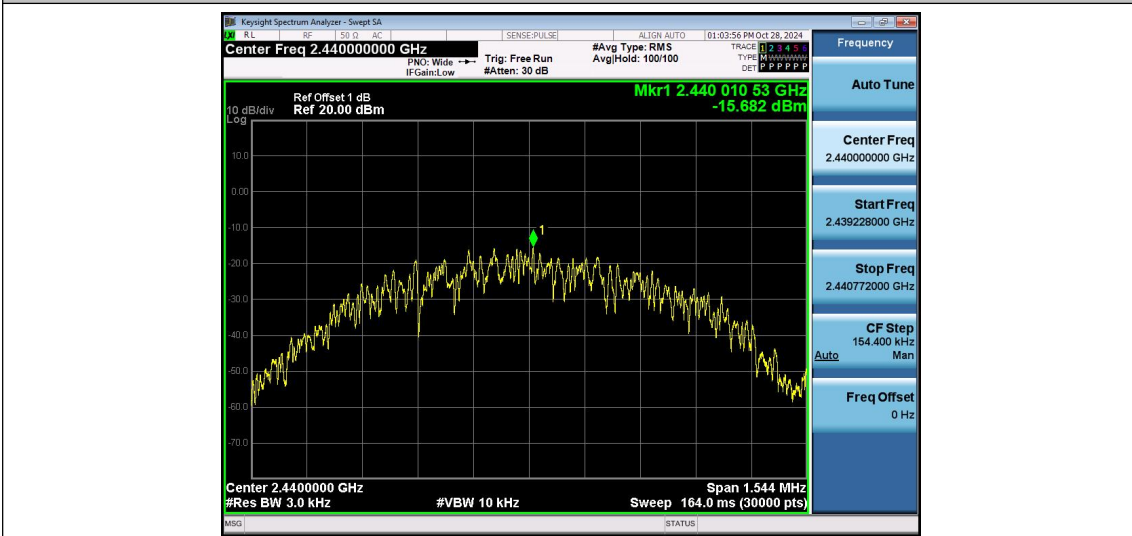
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Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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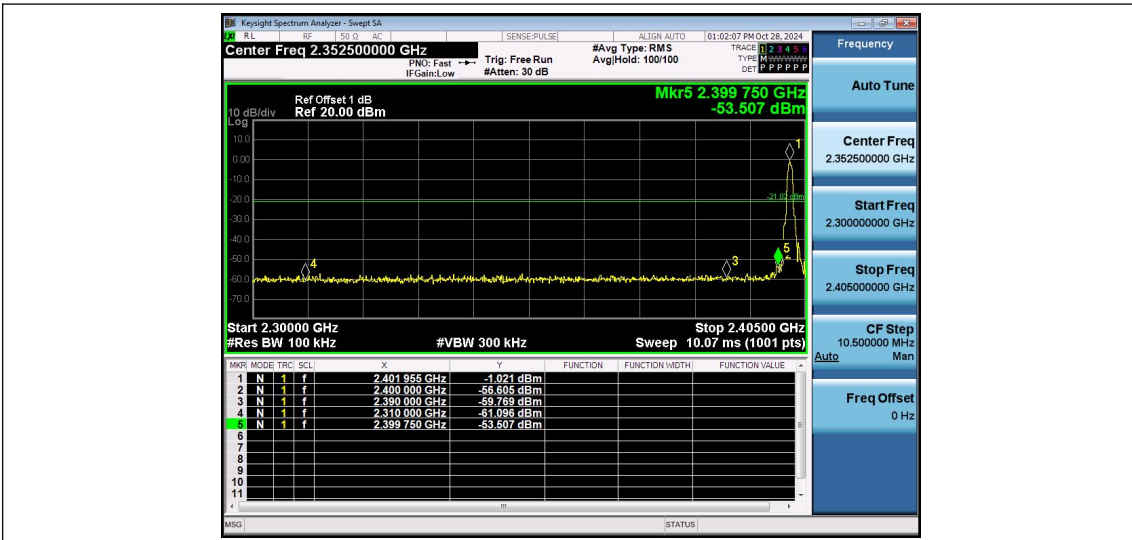
Appendix E: Band edge measurements

Test Result

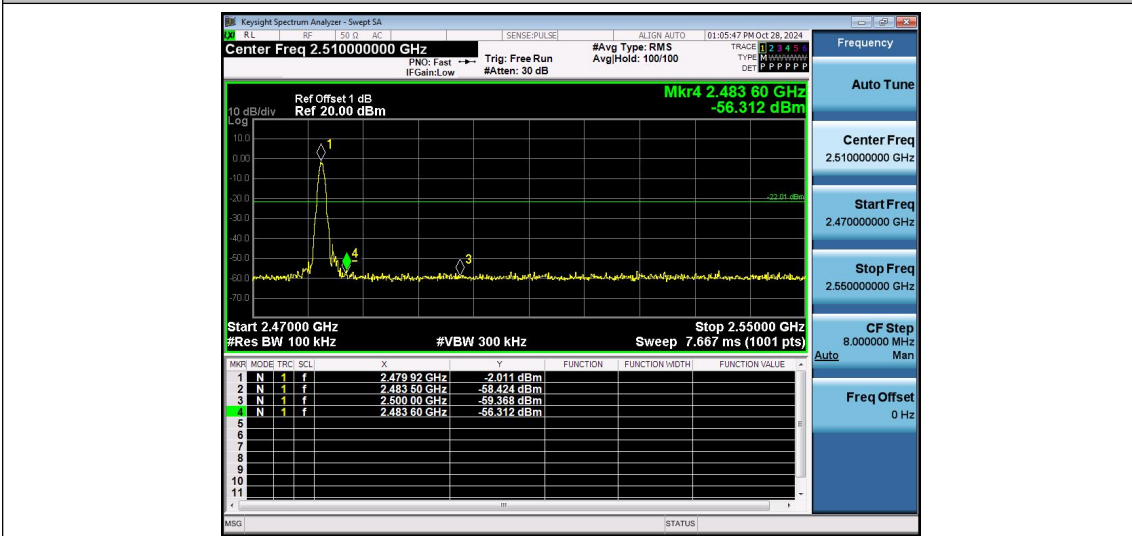
TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.02	-53.51	≤-21.02	PASS
BLE_1M	Ant1	High	2480	-2.01	-56.31	≤-22.01	PASS



Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



Appendix F: Conducted Spurious Emission

Test Result

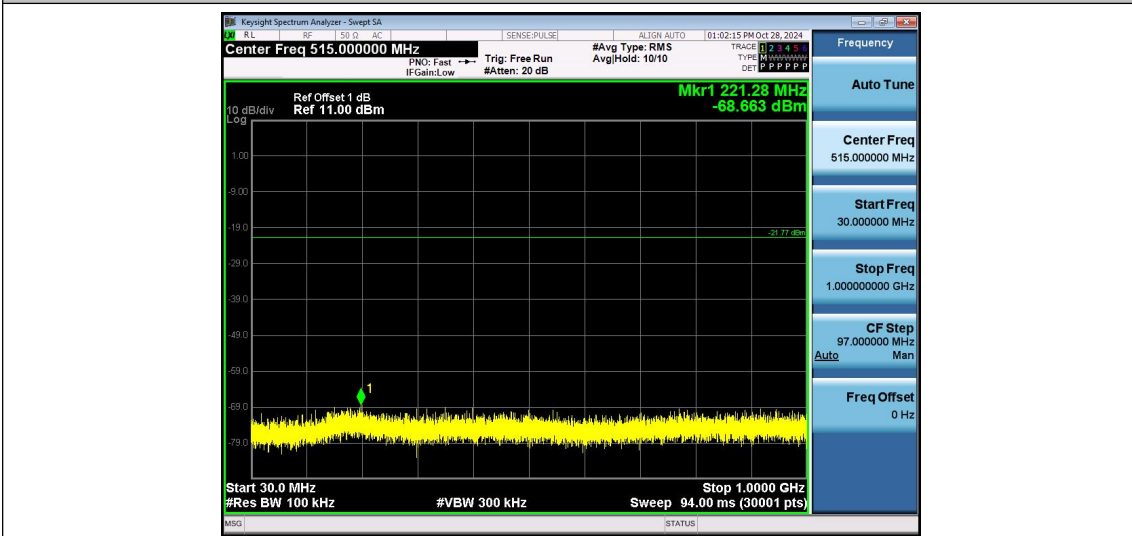
TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-1.77	-1.77	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.77	-68.66	≤-21.77	PASS
BLE_1M	Ant1	2402	1000~26500	-1.77	-53.4	≤-21.77	PASS
BLE_1M	Ant1	2440	0~Reference	-1.77	-1.77	---	PASS
BLE_1M	Ant1	2440	30~1000	-1.77	-67.54	≤-21.77	PASS
BLE_1M	Ant1	2440	1000~26500	-1.77	-52.68	≤-21.77	PASS
BLE_1M	Ant1	2480	0~Reference	-3.38	-3.38	---	PASS
BLE_1M	Ant1	2480	30~1000	-3.38	-68.32	≤-23.38	PASS
BLE_1M	Ant1	2480	1000~26500	-3.38	-53.63	≤-23.38	PASS



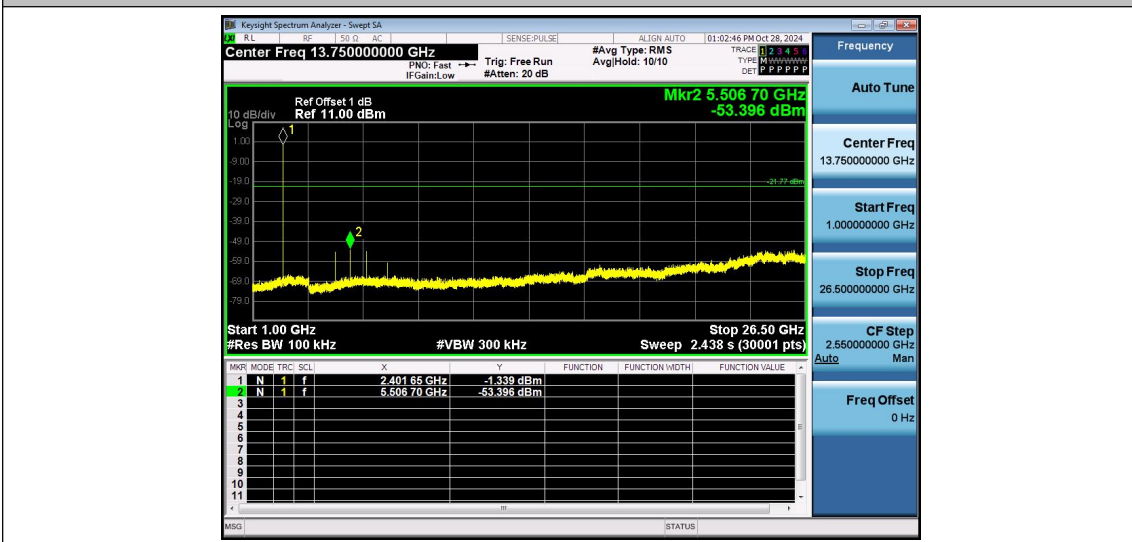
Test Graphs



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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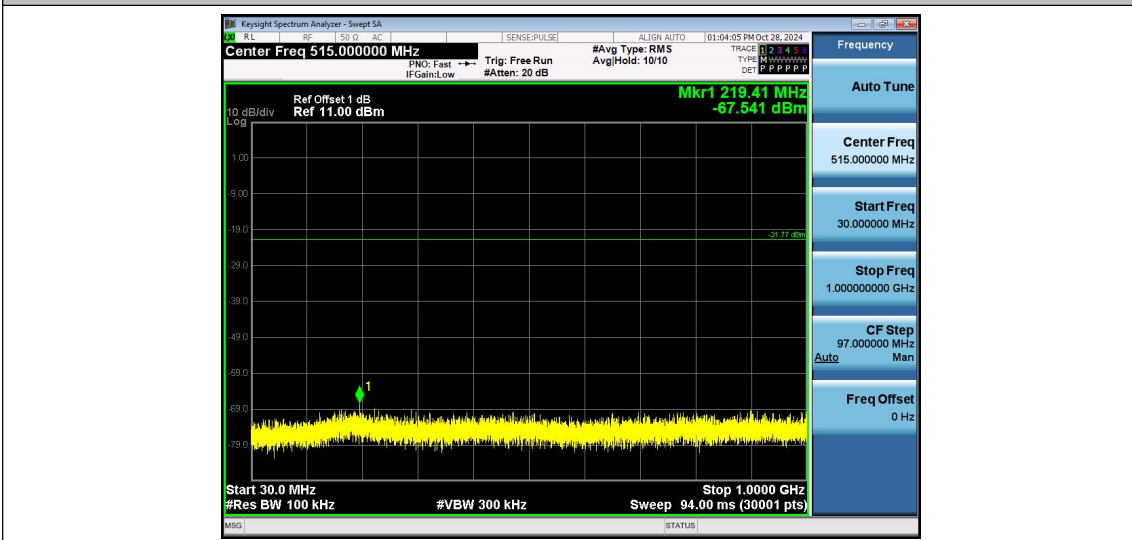
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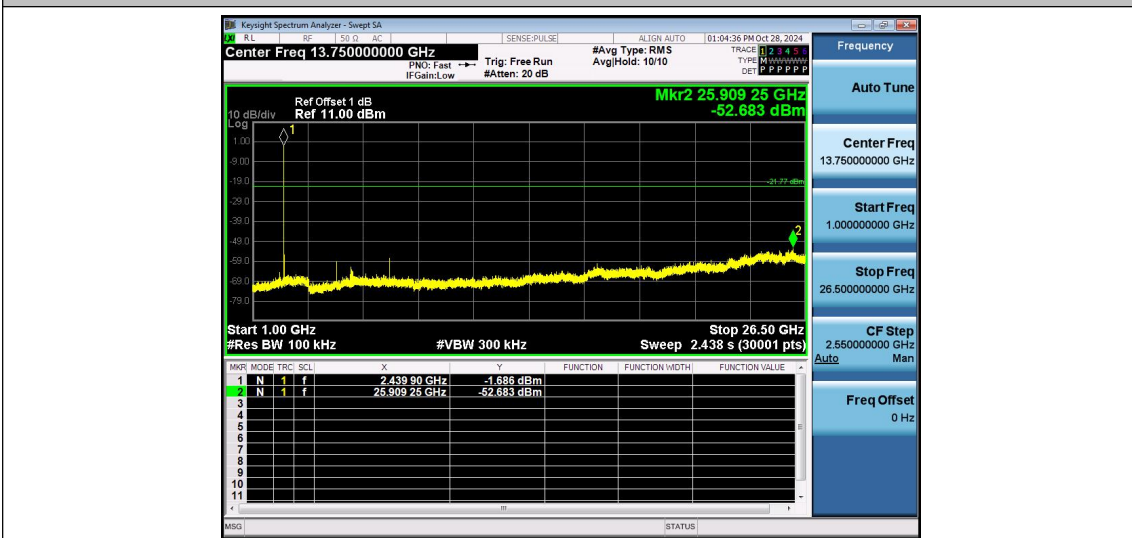




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS

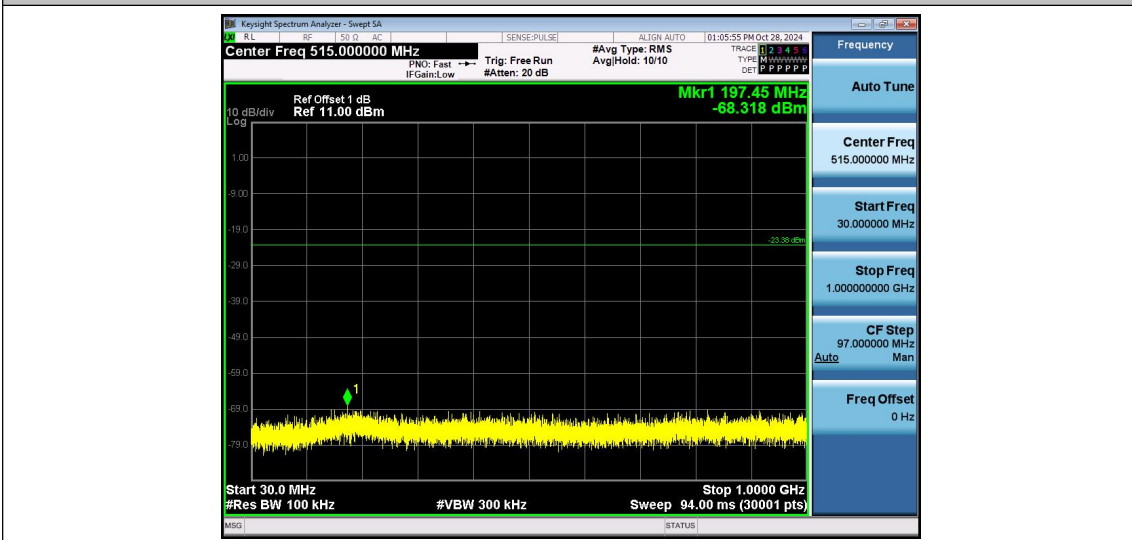


BLE_1M-Ant1-2440-1000~26500-PASS

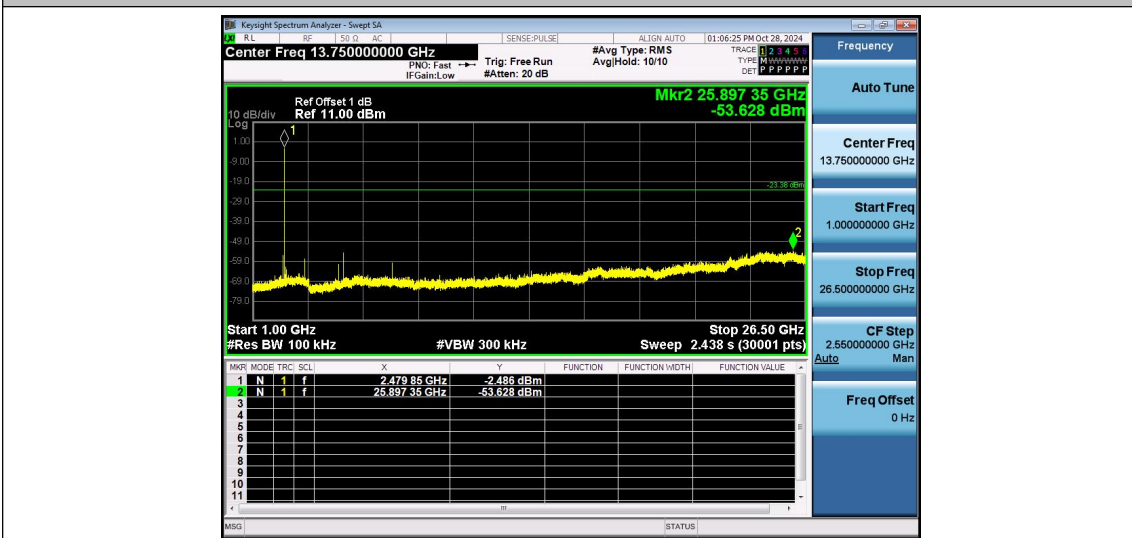




BLE_1M-Ant1-2480-0~Reference-PASS



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	0.29	1.07	27.10	5.67
BLE_1M	Ant1	2440	0.29	1.07	27.10	5.67
BLE_1M	Ant1	2480	0.29	1.07	27.10	5.67

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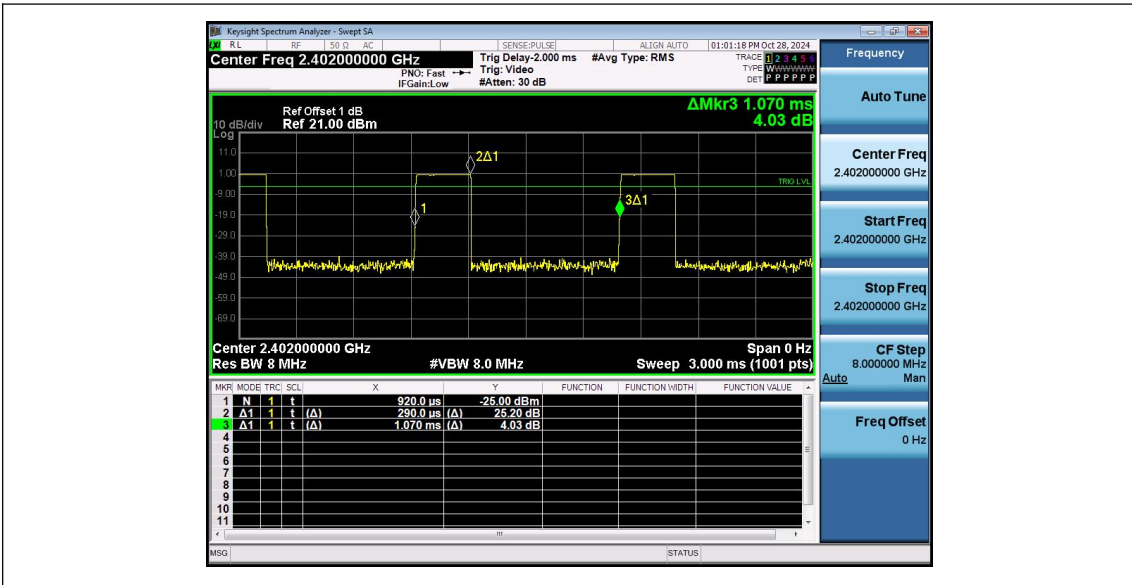
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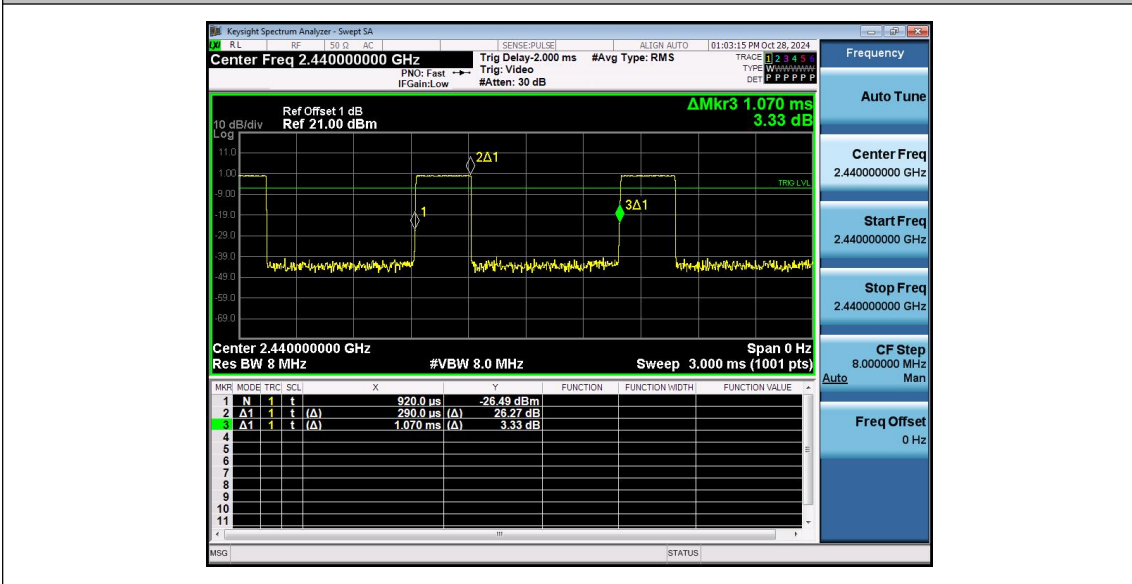
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Test Graphs

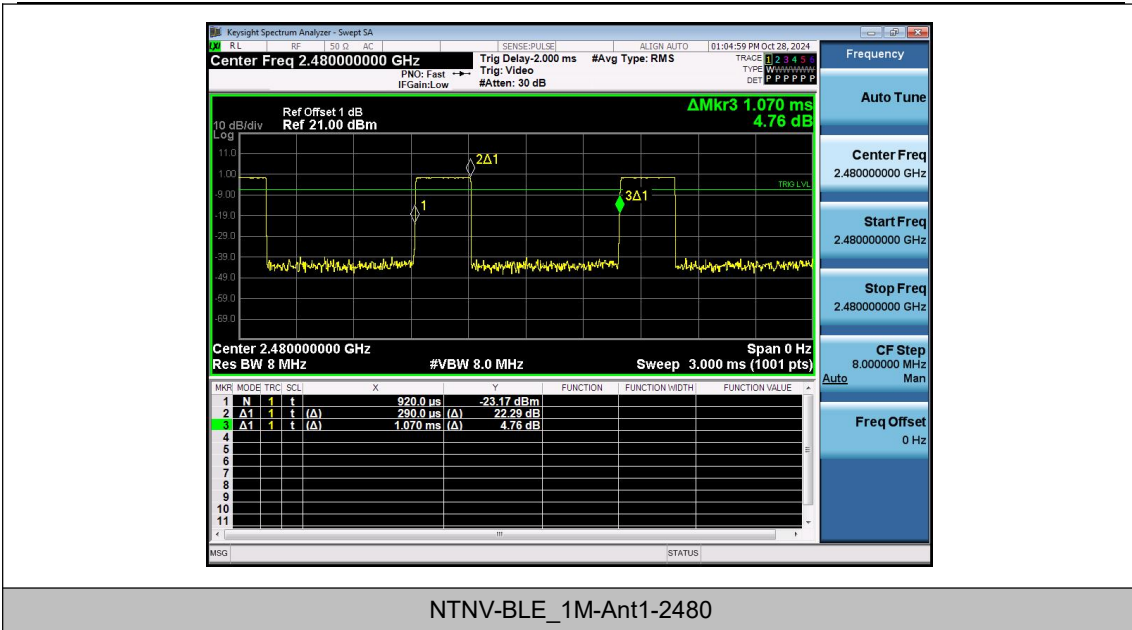


NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440





NTNV-BLE_1M-Ant1-2480

---End---

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