

Appendix Test Data

Report No.:	182512C400327102	Test Sample No.:	1-2-2
Start Test Date:	2024.7.11	Finish Test Date:	2024.7.15
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.3°C	Relative Humidity:	49%
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	2401.668	2402.344	0.5	PASS
BLE_1M	Ant1	2440	0.704	2439.648	2440.352	0.5	PASS
BLE_1M	Ant1	2480	0.648	2479.676	2480.324	0.5	PASS
BLE_2M	Ant1	2402	1.312	2401.328	2402.640	0.5	PASS
BLE_2M	Ant1	2440	1.204	2439.352	2440.556	0.5	PASS
BLE_2M	Ant1	2480	1.112	2479.436	2480.548	0.5	PASS



Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

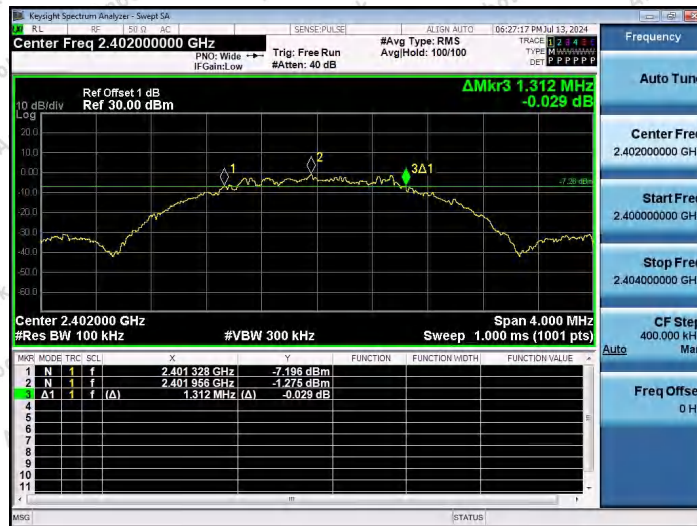
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BLE_2M-Ant1-2402-PASS



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	1.0394	2401.4809	2402.5203	---	---
BLE_1M	Ant1	2440	1.0463	2439.4777	2440.5240	---	---
BLE_1M	Ant1	2480	1.0403	2479.4829	2480.5232	---	---
BLE_2M	Ant1	2402	2.0834	2400.9731	2403.0565	---	---
BLE_2M	Ant1	2440	2.0785	2438.9711	2441.0496	---	---
BLE_2M	Ant1	2480	2.0773	2478.9758	2481.0531	---	---



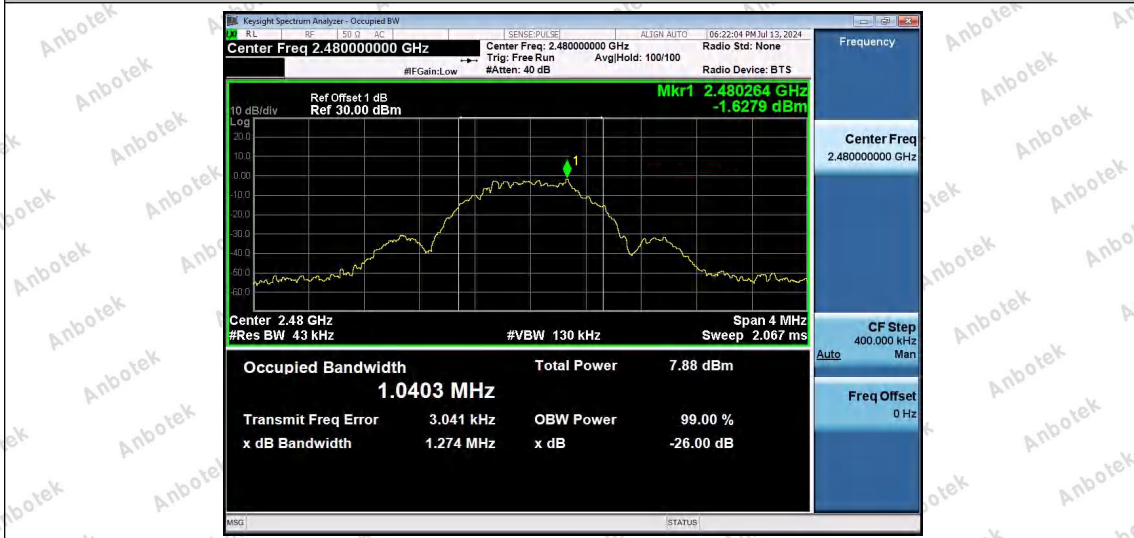
Test Graphs



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	0.96	≤30	PASS
BLE_1M	Ant1	2440	1.17	≤30	PASS
BLE_1M	Ant1	2480	1.25	≤30	PASS
BLE_2M	Ant1	2402	1.00	≤30	PASS
BLE_2M	Ant1	2440	1.21	≤30	PASS
BLE_2M	Ant1	2480	1.34	≤30	PASS



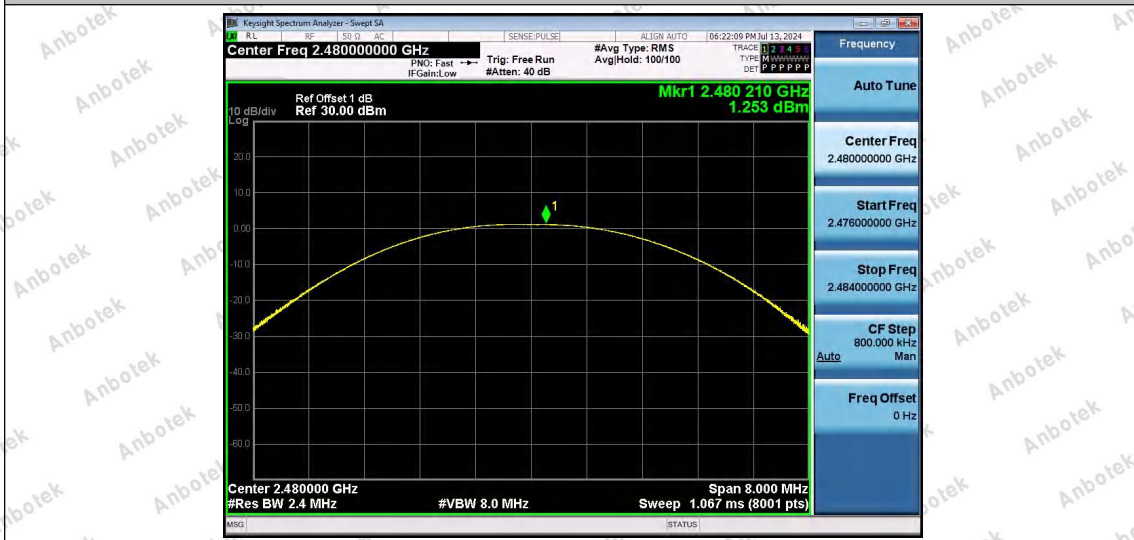
Test Graphs Peak



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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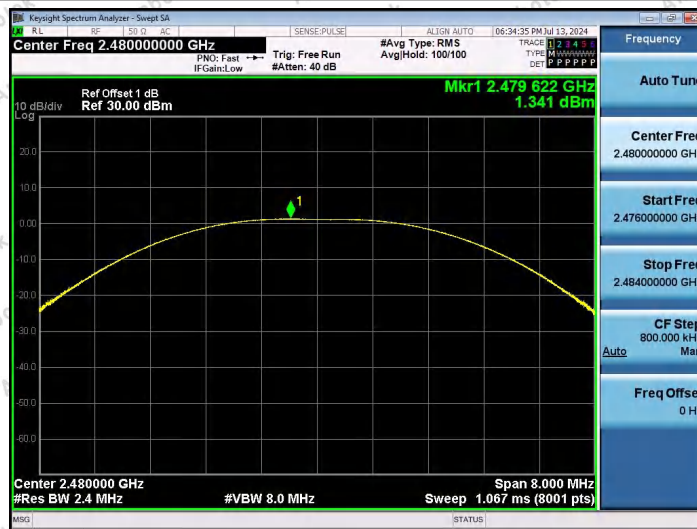




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

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Appendix D: Maximum power spectral density

Test Result

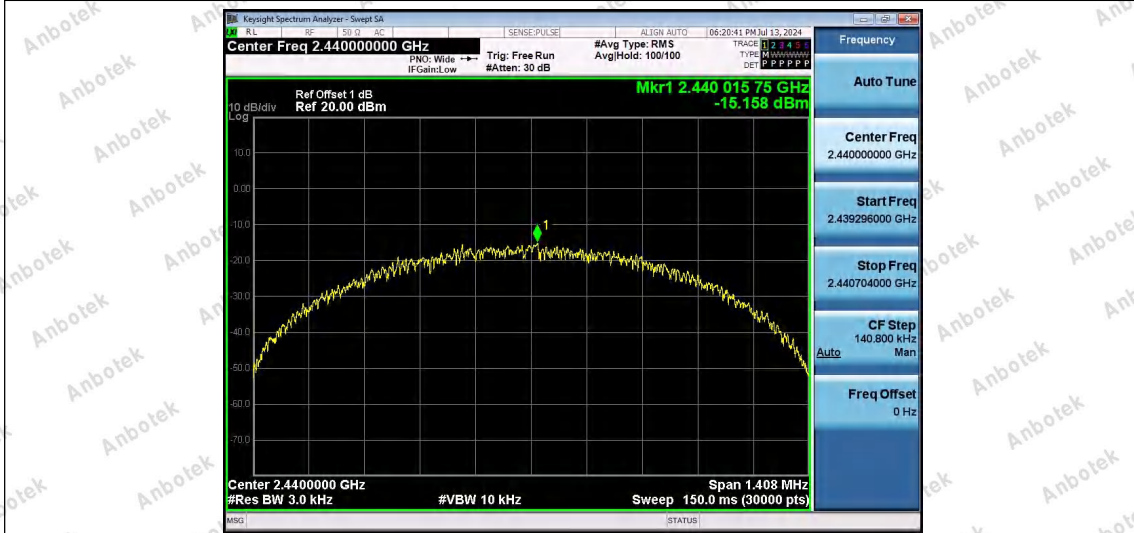
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.25	≤8.00	PASS
BLE_1M	Ant1	2440	-15.16	≤8.00	PASS
BLE_1M	Ant1	2480	-15.02	≤8.00	PASS
BLE_2M	Ant1	2402	-17.72	≤8.00	PASS
BLE_2M	Ant1	2440	-17.51	≤8.00	PASS
BLE_2M	Ant1	2480	-17.43	≤8.00	PASS



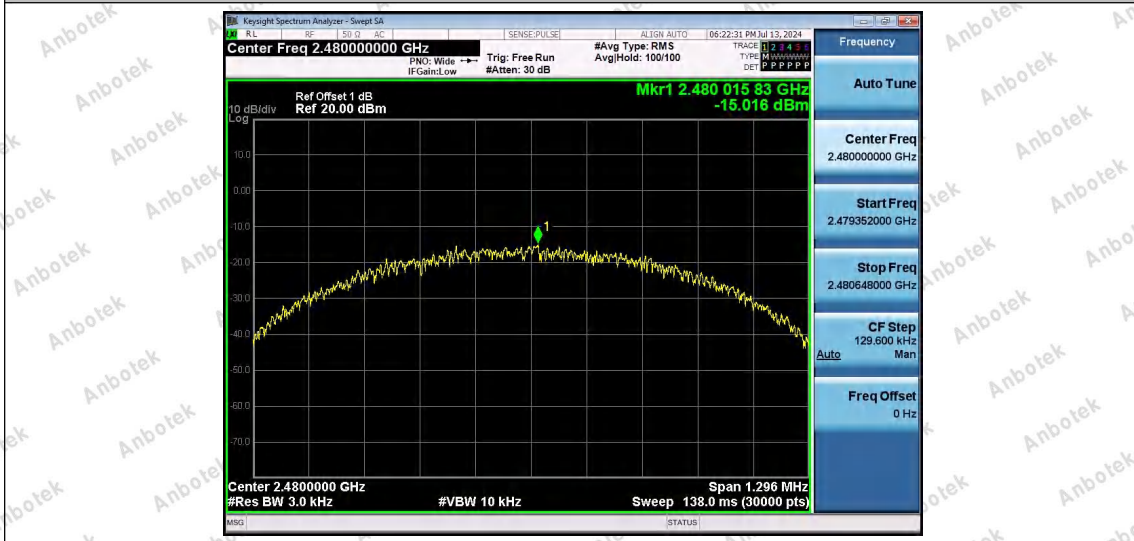
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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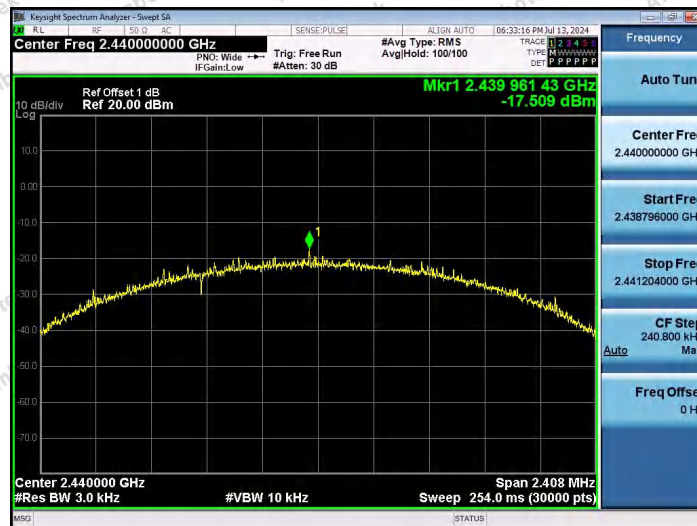


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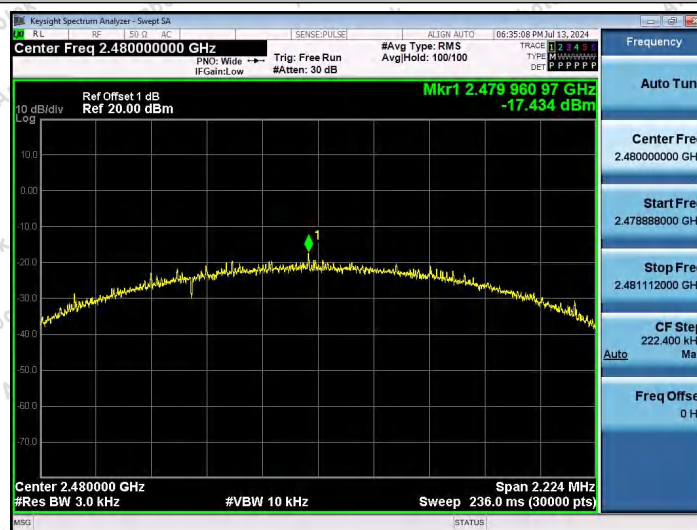




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



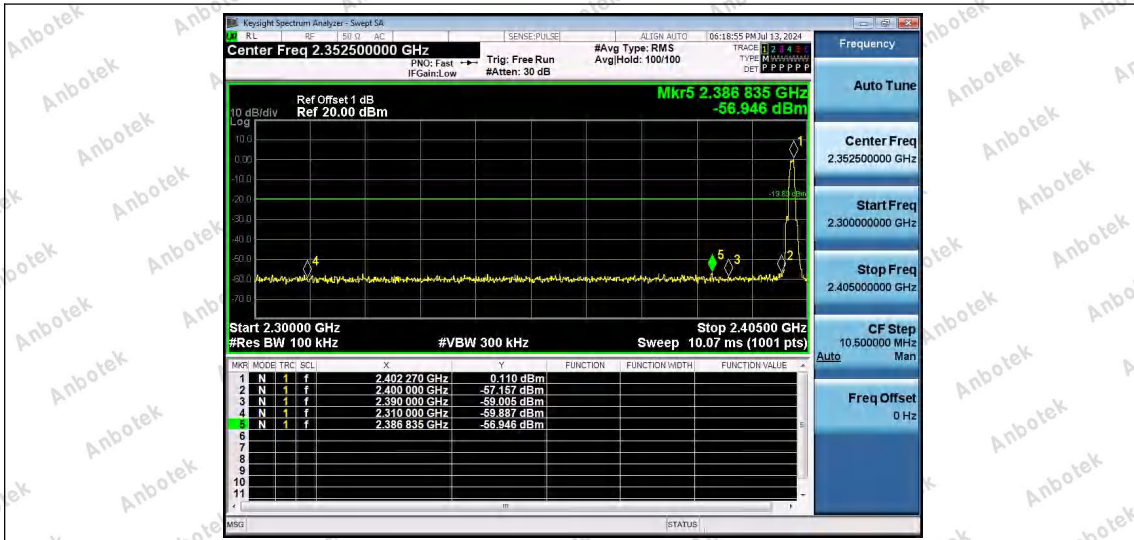
Appendix E: Band edge measurements

Test Result

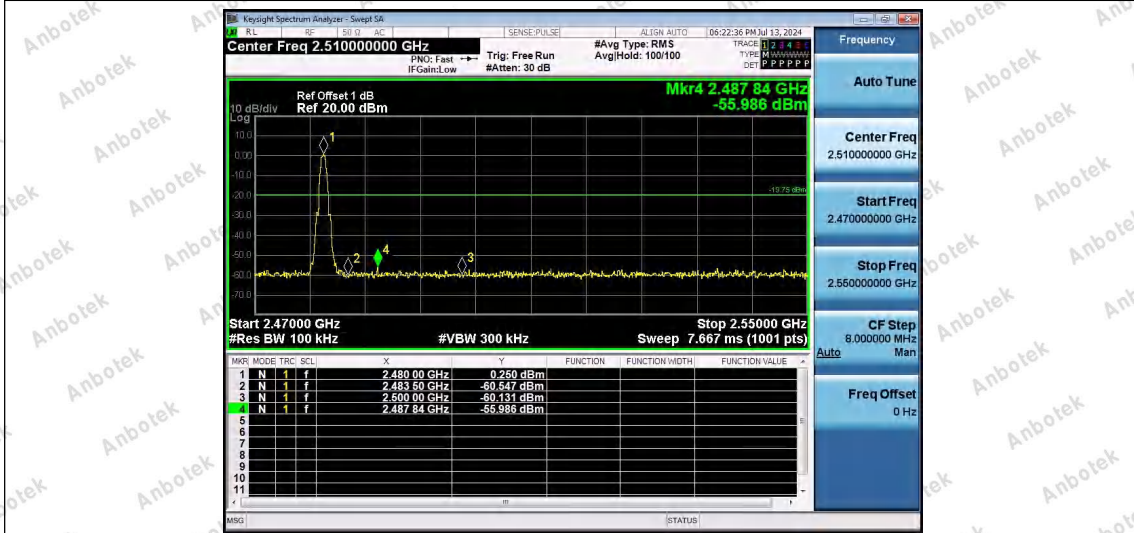
TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.11	-56.95	≤-19.89	PASS
BLE_1M	Ant1	High	2480	0.25	-55.99	≤-19.75	PASS
BLE_2M	Ant1	Low	2402	-0.11	-33.18	≤-20.11	PASS
BLE_2M	Ant1	High	2480	-1.31	-56.35	≤-21.31	PASS



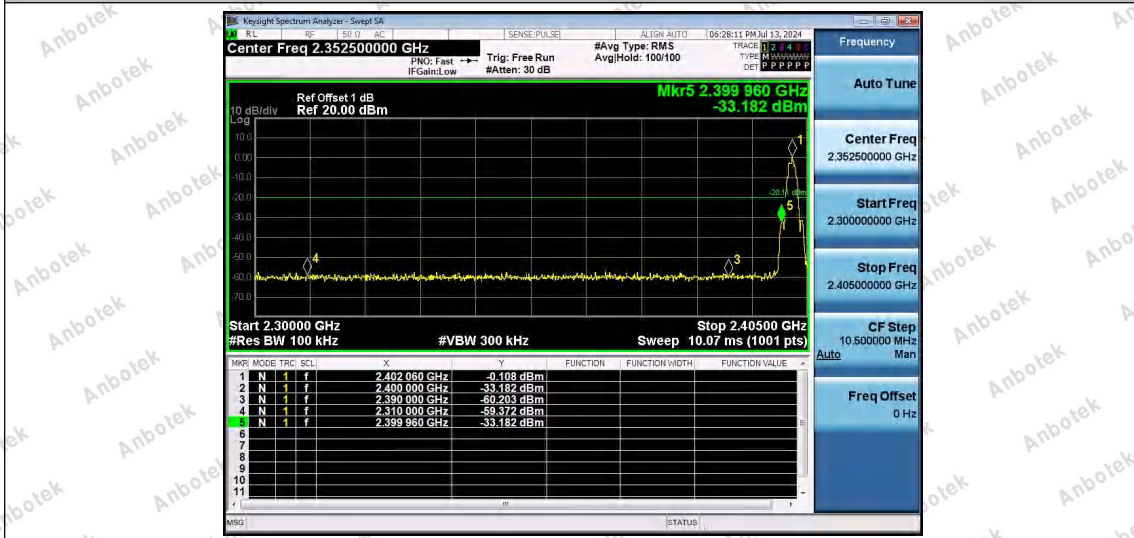
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS

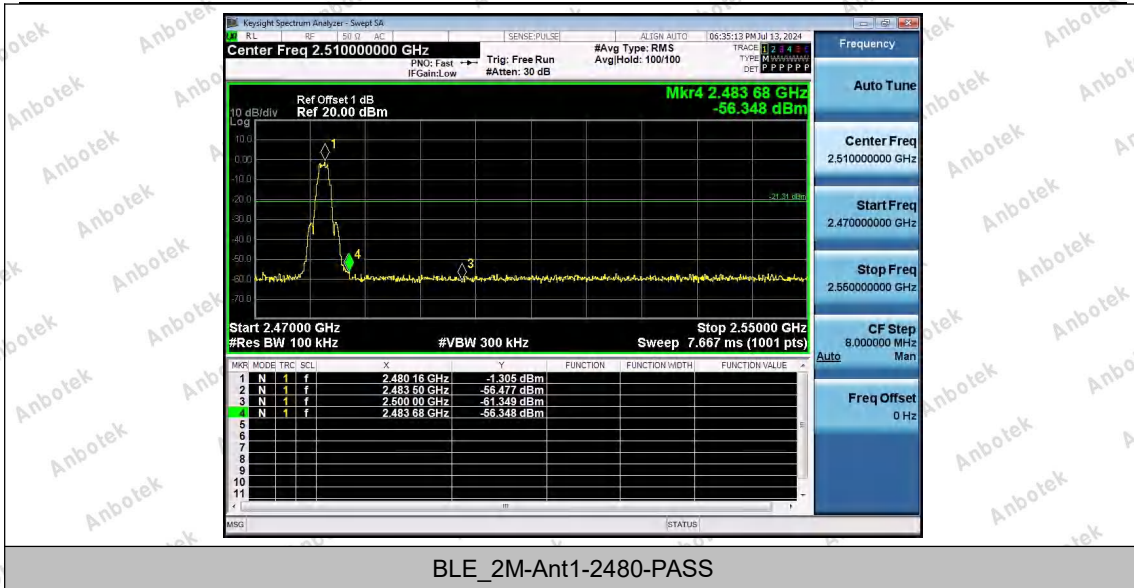
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Appendix F: Conducted Spurious Emission

Test Result

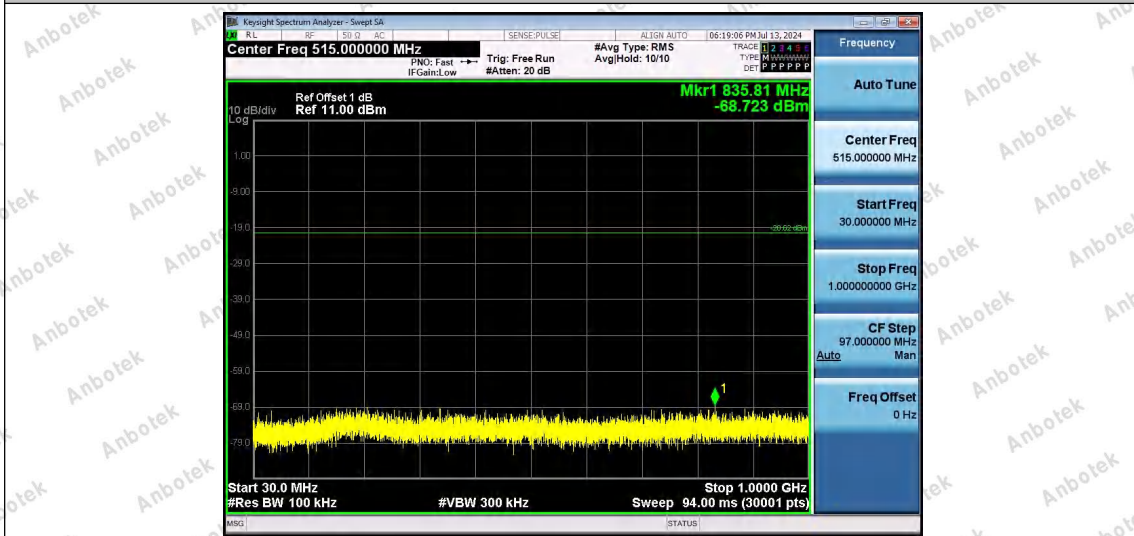
TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.62	-0.62	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.62	-68.72	≤-20.62	PASS
BLE_1M	Ant1	2402	1000~26500	-0.62	-53.2	≤-20.62	PASS
BLE_1M	Ant1	2440	0~Reference	-0.43	-0.43	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.43	-67.67	≤-20.43	PASS
BLE_1M	Ant1	2440	1000~26500	-0.43	-53.28	≤-20.43	PASS
BLE_1M	Ant1	2480	0~Reference	0.94	0.94	---	PASS
BLE_1M	Ant1	2480	30~1000	0.94	-68.52	≤-19.06	PASS
BLE_1M	Ant1	2480	1000~26500	0.94	-53.36	≤-19.06	PASS
BLE_2M	Ant1	2402	0~Reference	-0.22	-0.22	---	PASS
BLE_2M	Ant1	2402	30~1000	-0.22	-68.96	≤-20.22	PASS
BLE_2M	Ant1	2402	1000~26500	-0.22	-53.29	≤-20.22	PASS
BLE_2M	Ant1	2440	0~Reference	-0.53	-0.53	---	PASS
BLE_2M	Ant1	2440	30~1000	-0.53	-68.9	≤-20.53	PASS
BLE_2M	Ant1	2440	1000~26500	-0.53	-53.52	≤-20.53	PASS
BLE_2M	Ant1	2480	0~Reference	-2.03	-2.03	---	PASS
BLE_2M	Ant1	2480	30~1000	-2.03	-68.74	≤-22.03	PASS
BLE_2M	Ant1	2480	1000~26500	-2.03	-53.35	≤-22.03	PASS



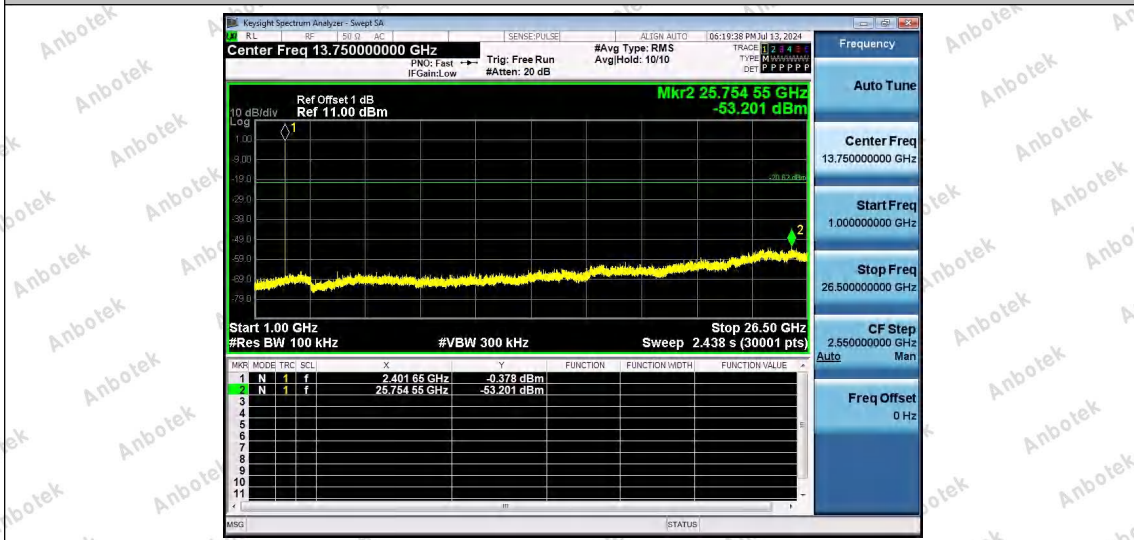
Test Graphs



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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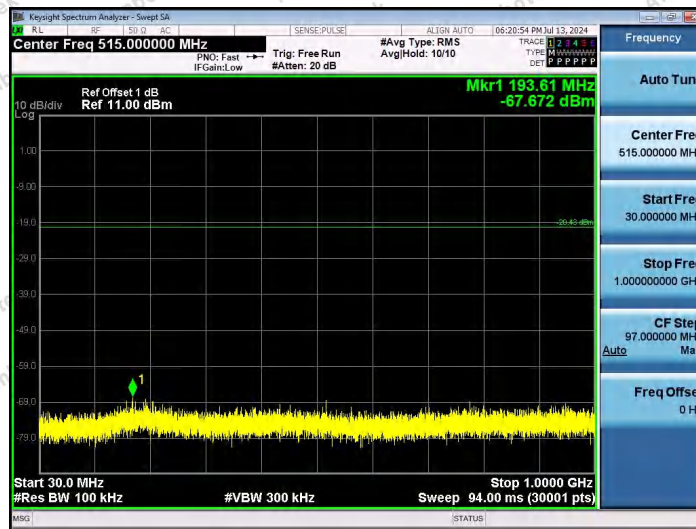


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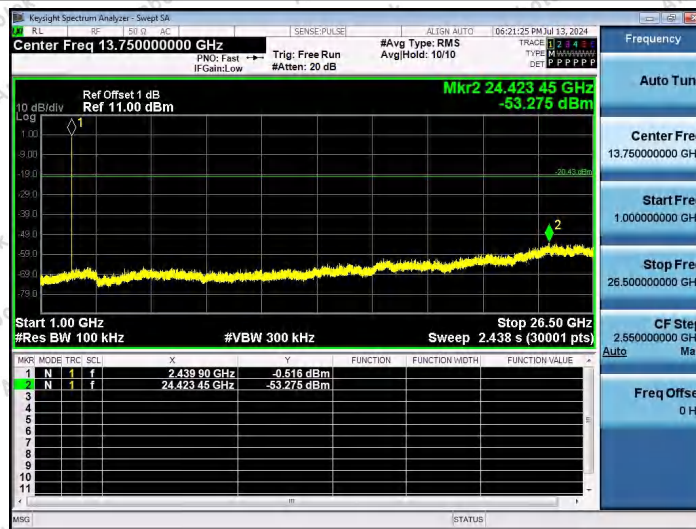




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

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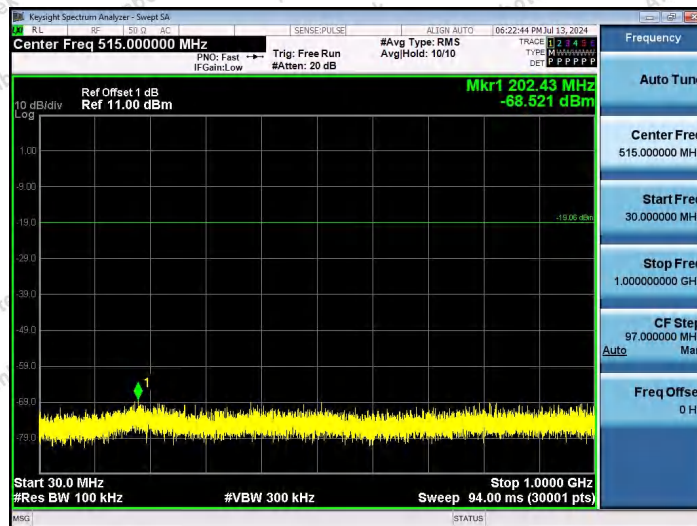


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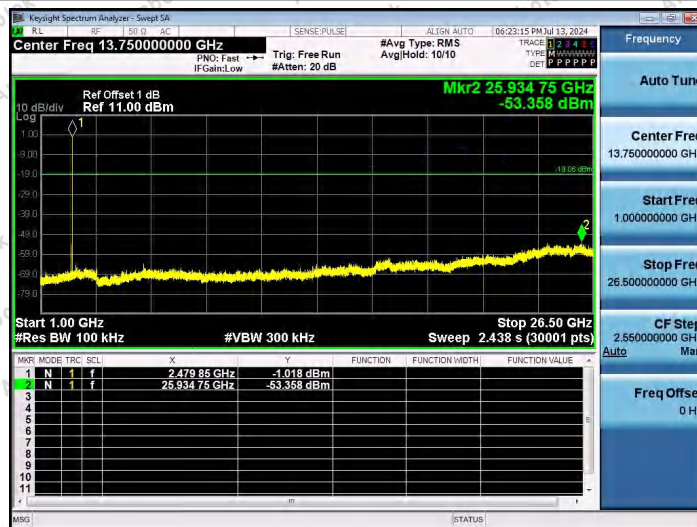




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS

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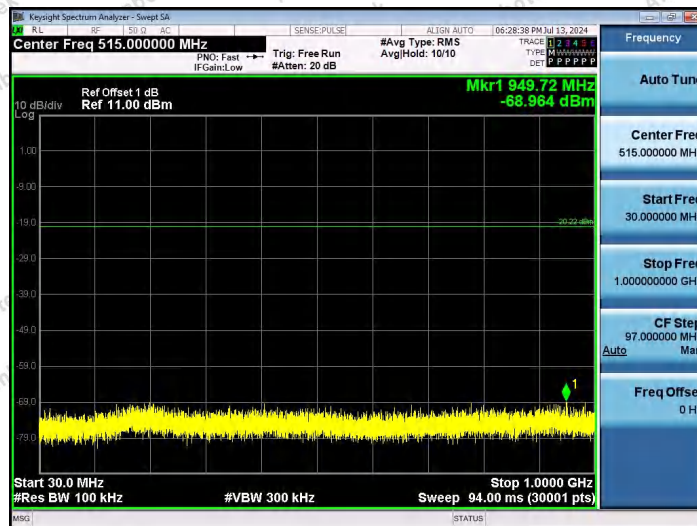


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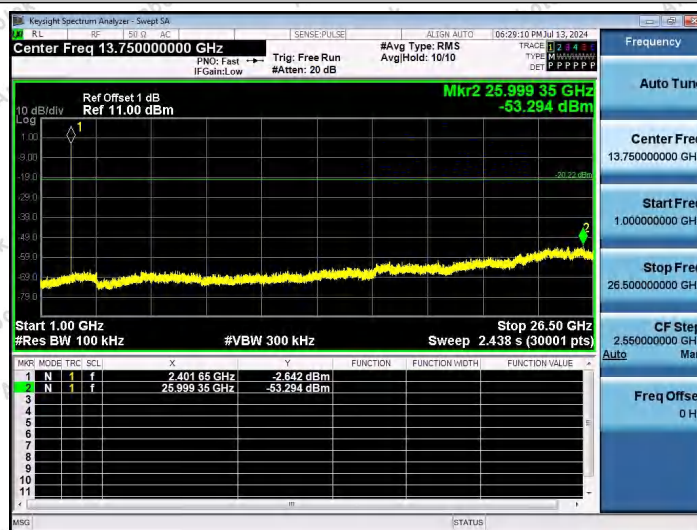




BLE_2M-Ant1-2402-0~Reference-PASS



BLE_2M-Ant1-2402-30~1000-PASS



BLE_2M-Ant1-2402-1000~26500-PASS

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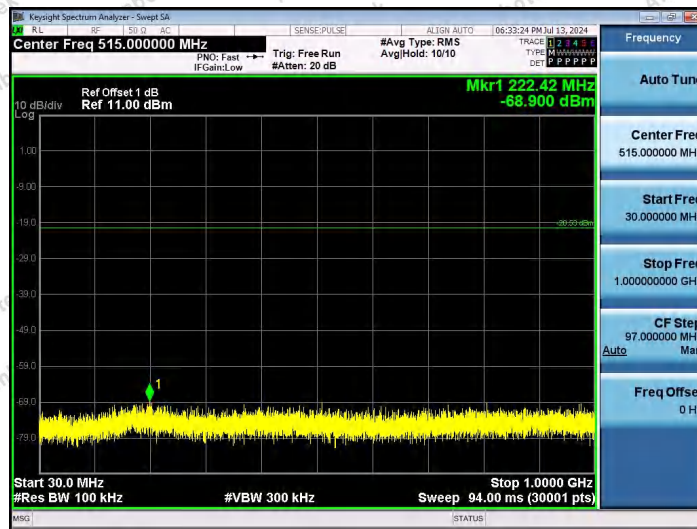
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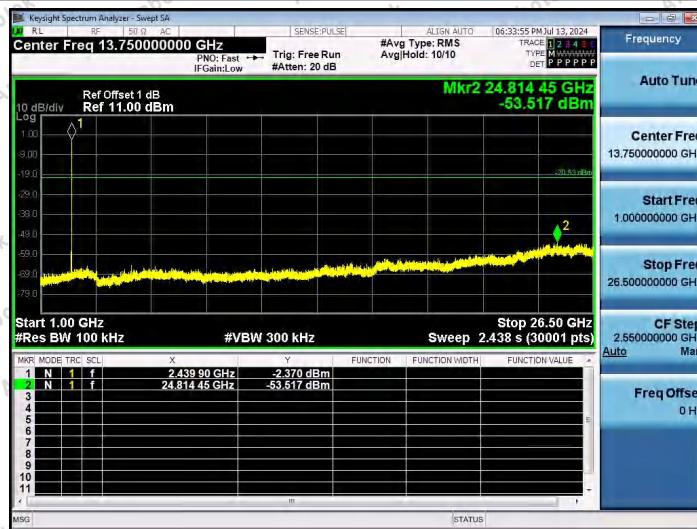




BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-PASS



BLE_2M-Ant1-2440-1000~26500-PASS

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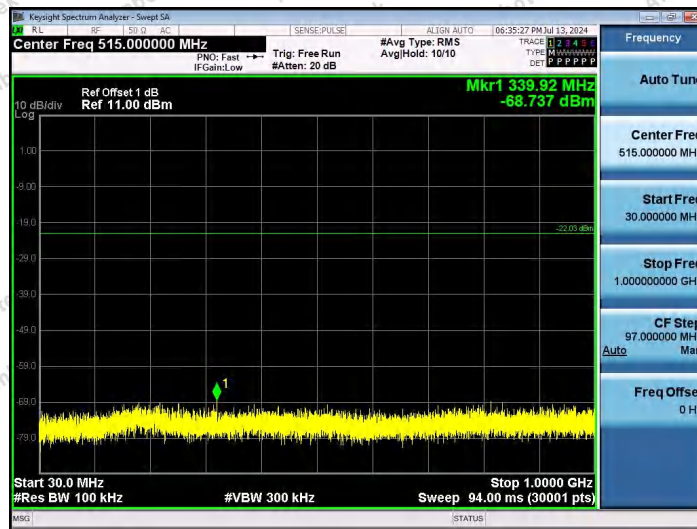
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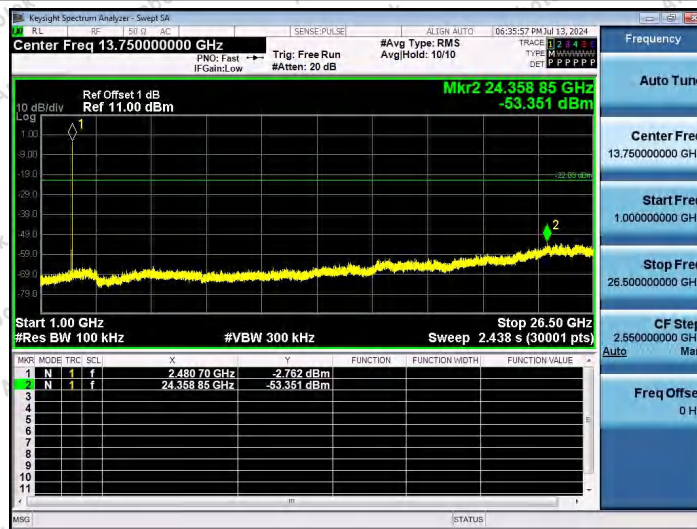




BLE_2M-Ant1-2480-0~Reference-PASS



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	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
BLE_2M	Ant1	2402	1.07	1.88	56.91	2.45
BLE_2M	Ant1	2440	1.07	1.88	56.91	2.45
BLE_2M	Ant1	2480	1.07	1.87	57.22	2.42

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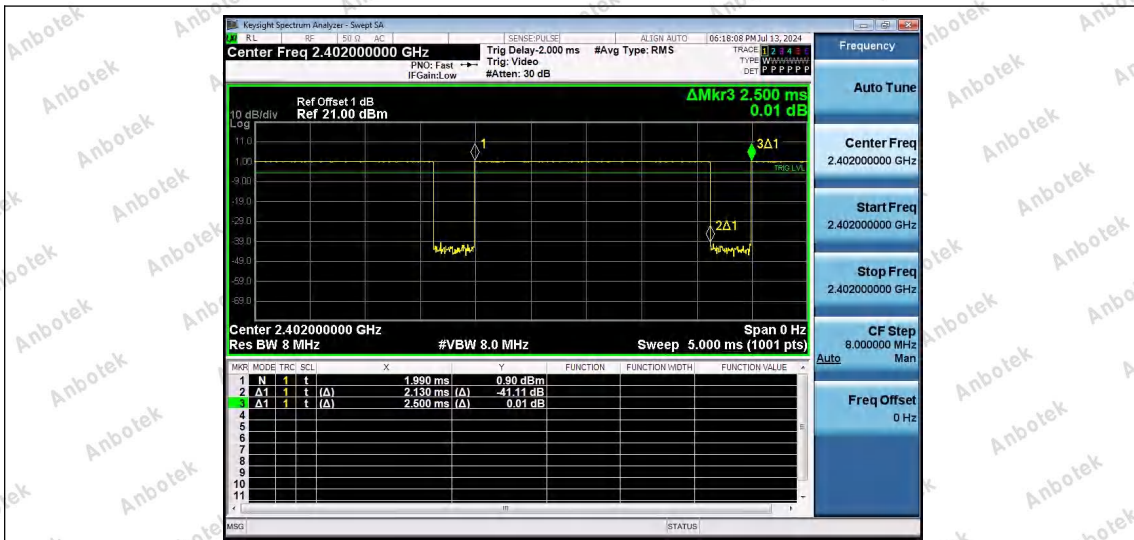


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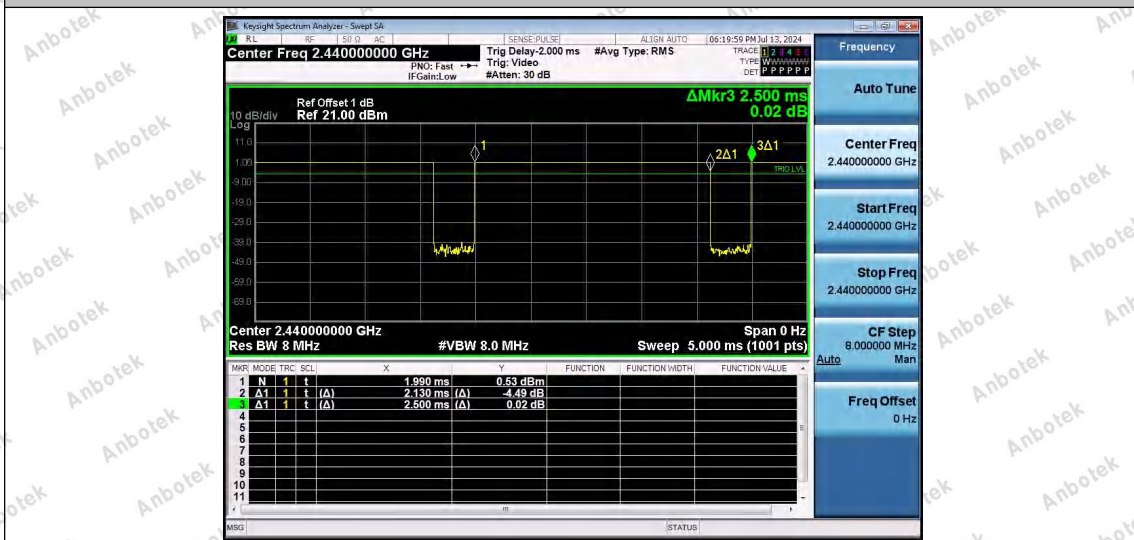
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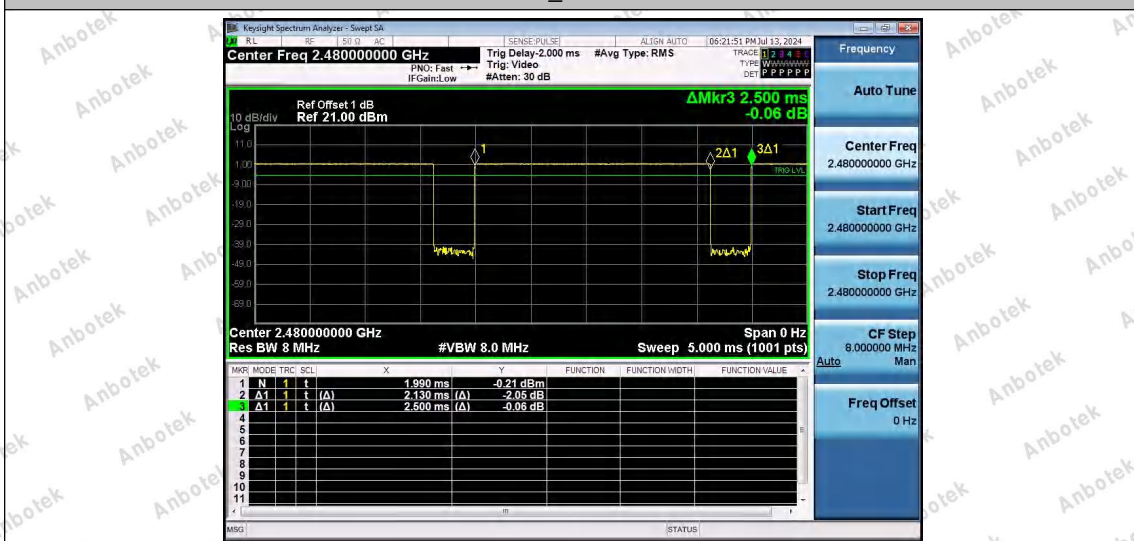
Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440



NTNV-BLE_1M-Ant1-2480

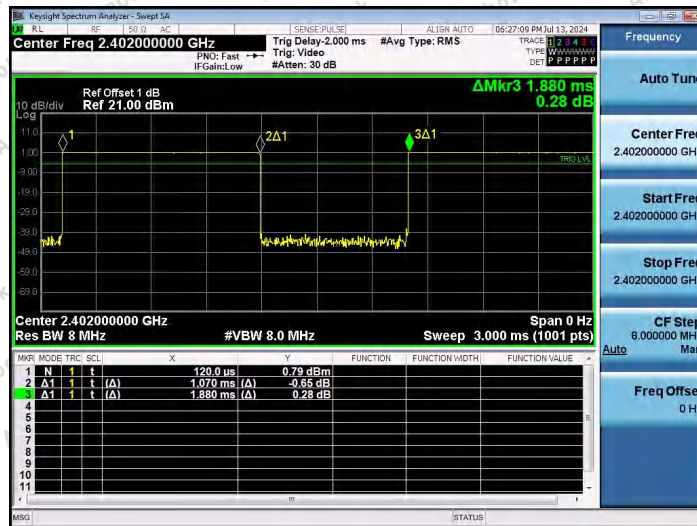
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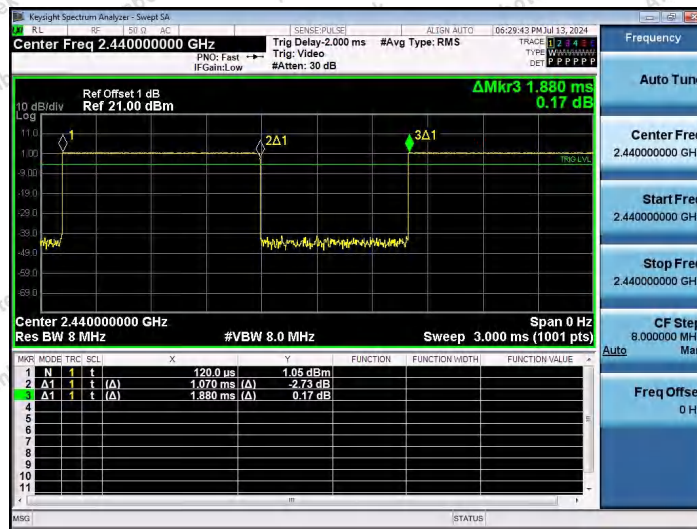


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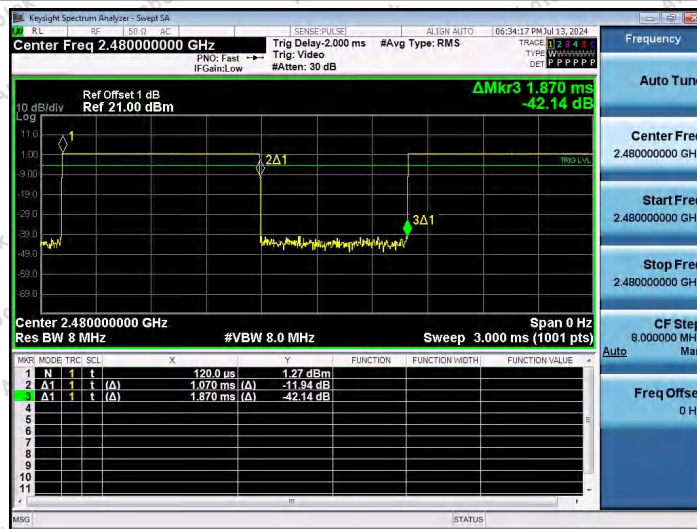




NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---End---

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