

Appendix Test Data

Report No.:	18220WC40089802	Test Sample No.:	1-2-2
Start Test Date:	2024.05.06	Finish Test Date:	2024.05.07
Test Engineer:	Joker Huang	Auditor:	Justin Feng
Temperature:	25.3℃	Relative Humidity:	48%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

Test Result

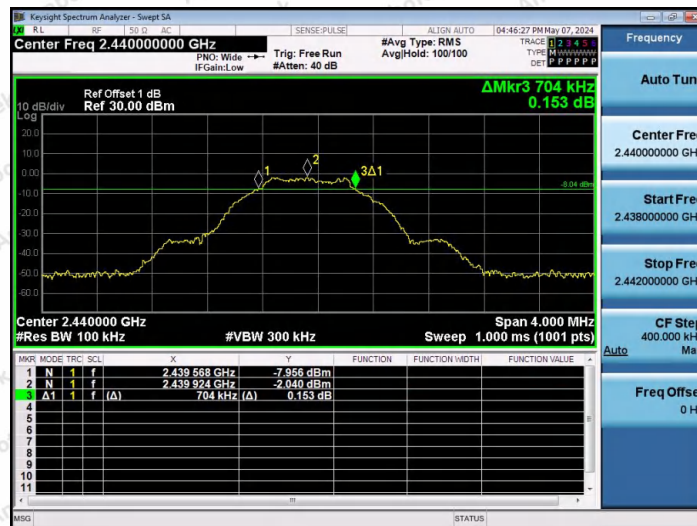
TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.700	2401.576	2402.276	0.5	PASS
BLE_1M	Ant1	2440	0.704	2439.568	2440.272	0.5	PASS
BLE_1M	Ant1	2480	0.704	2479.572	2480.276	0.5	PASS
BLE_2M	Ant1	2402	1.240	2401.276	2402.516	0.5	PASS
BLE_2M	Ant1	2440	1.248	2439.276	2440.524	0.5	PASS
BLE_2M	Ant1	2480	1.212	2479.284	2480.496	0.5	PASS



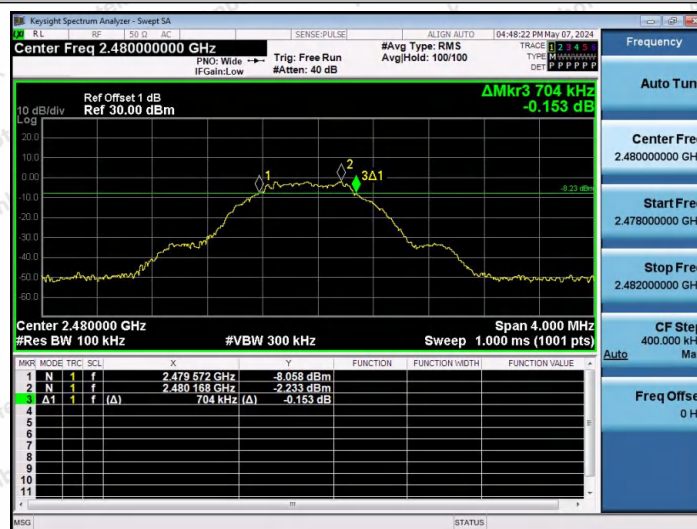
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

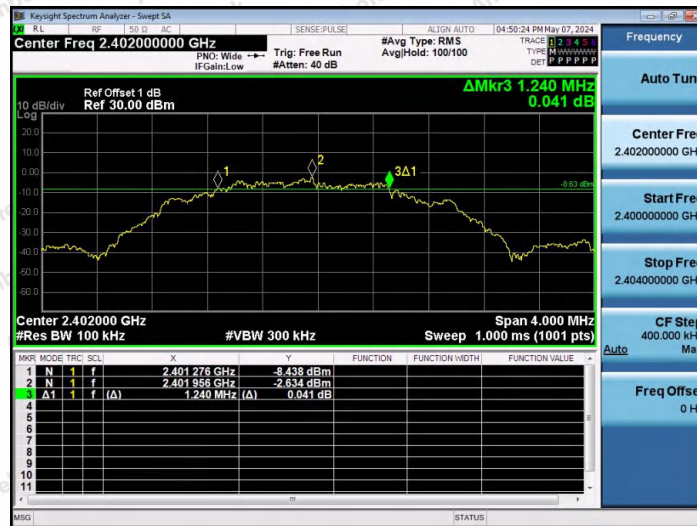
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BLE_2M-Ant1-2402-PASS



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	1.0480	2401.4158	2402.4638	---	---
BLE_1M	Ant1	2440	1.0433	2439.4112	2440.4545	---	---
BLE_1M	Ant1	2480	1.0439	2479.4115	2480.4554	---	---
BLE_2M	Ant1	2402	2.0935	2400.8989	2402.9924	---	---
BLE_2M	Ant1	2440	2.1041	2438.8883	2440.9924	---	---
BLE_2M	Ant1	2480	2.0885	2478.8958	2480.9843	---	---

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Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



BLE_1M-Ant1-2480

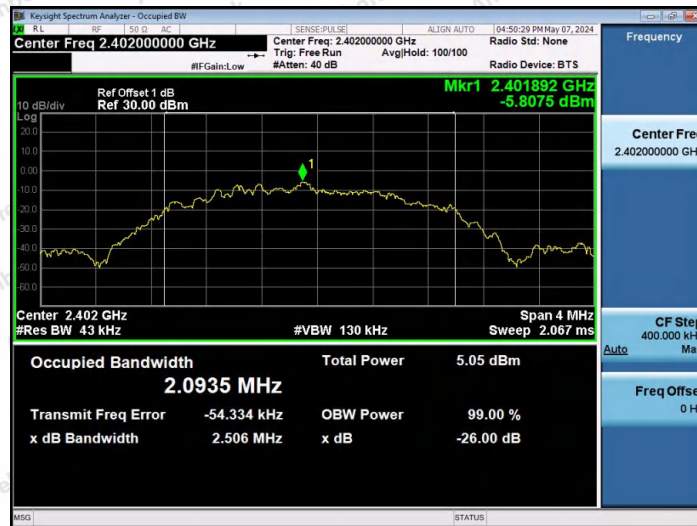
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BLE_2M-Ant1-2402



BLE_2M-Ant1-2440



BLE_2M-Ant1-2480

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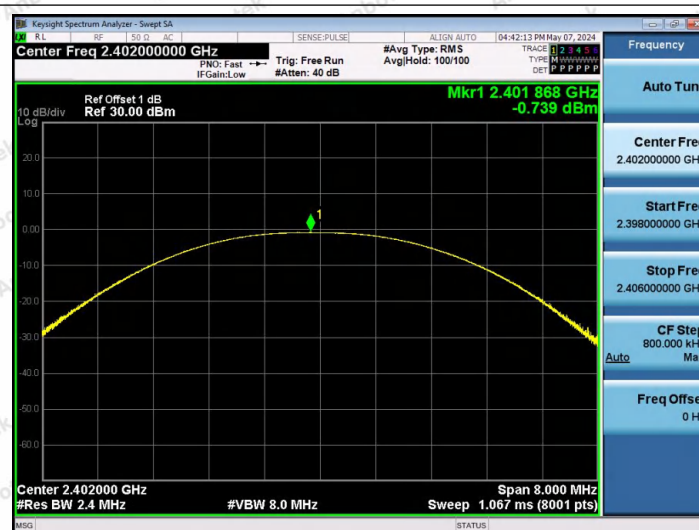


Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.74	≤30	PASS
BLE_1M	Ant1	2440	-0.80	≤30	PASS
BLE_1M	Ant1	2480	-1.12	≤30	PASS
BLE_2M	Ant1	2402	-0.58	≤30	PASS
BLE_2M	Ant1	2440	-0.73	≤30	PASS
BLE_2M	Ant1	2480	-0.94	≤30	PASS

Test Graphs Peak



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS

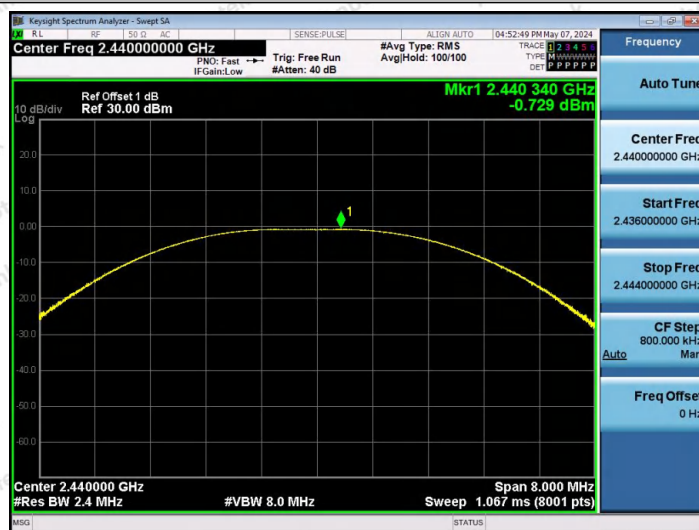




BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS

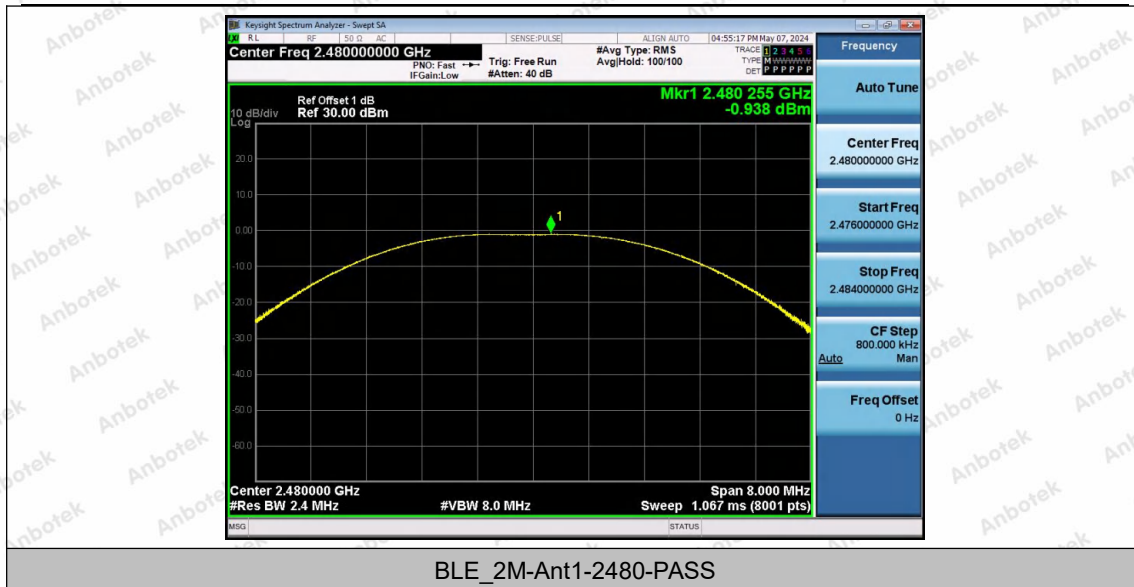
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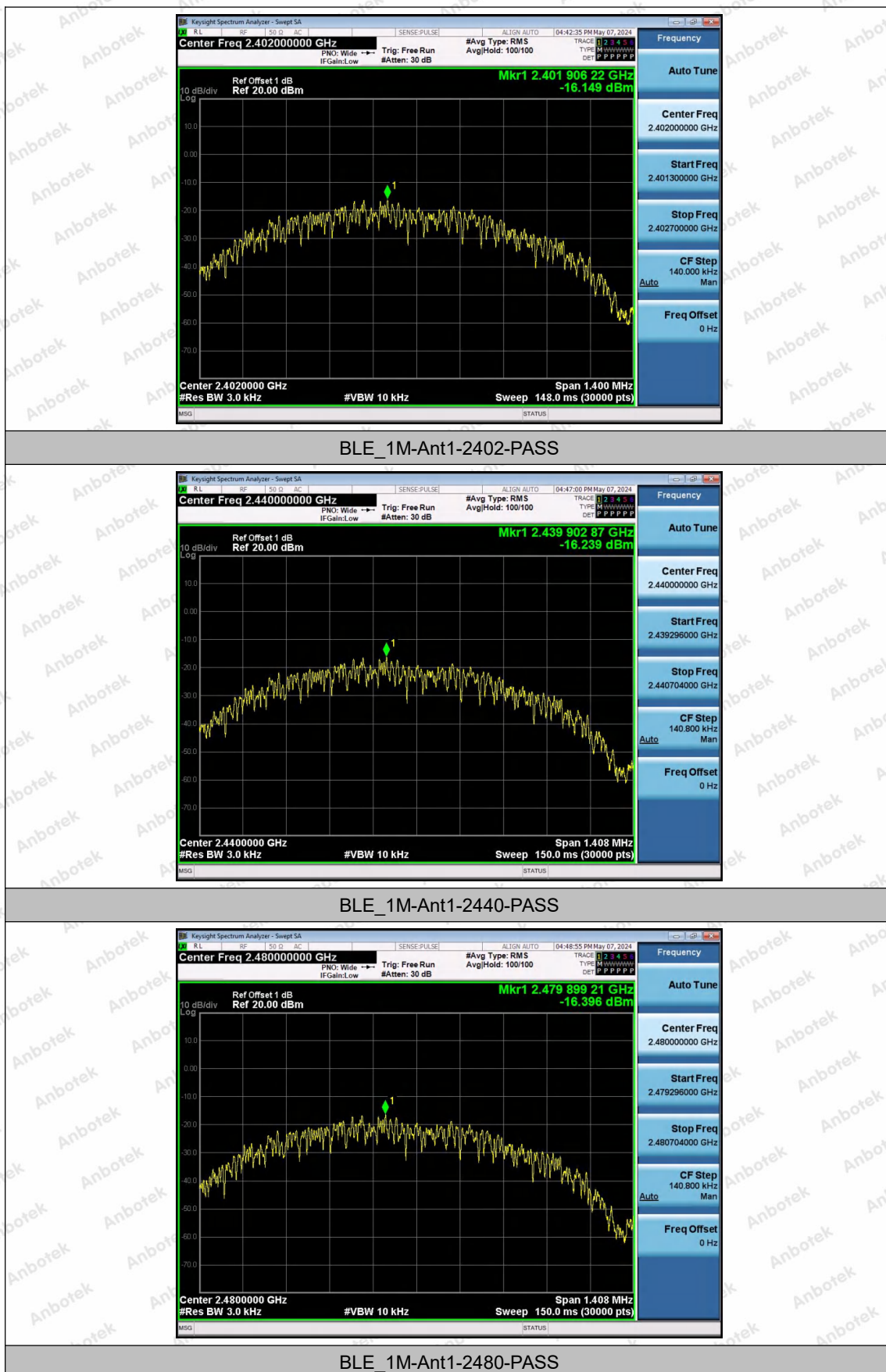
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.15	≤8.00	PASS
BLE_1M	Ant1	2440	-16.24	≤8.00	PASS
BLE_1M	Ant1	2480	-16.40	≤8.00	PASS
BLE_2M	Ant1	2402	-18.08	≤8.00	PASS
BLE_2M	Ant1	2440	-18.17	≤8.00	PASS
BLE_2M	Ant1	2480	-18.44	≤8.00	PASS



Test Graphs



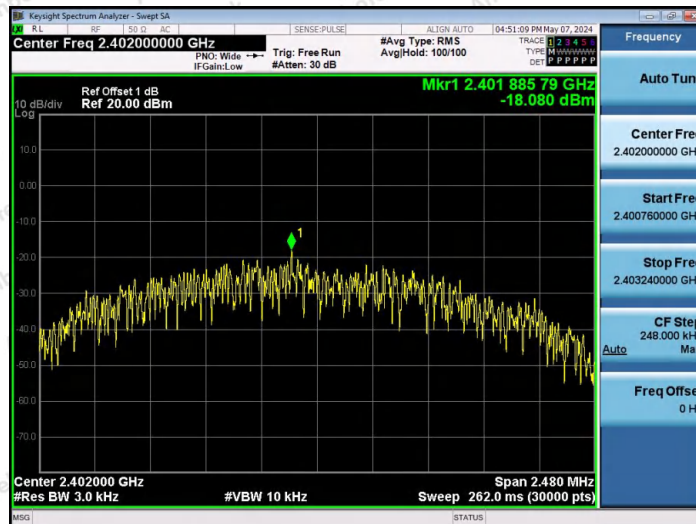
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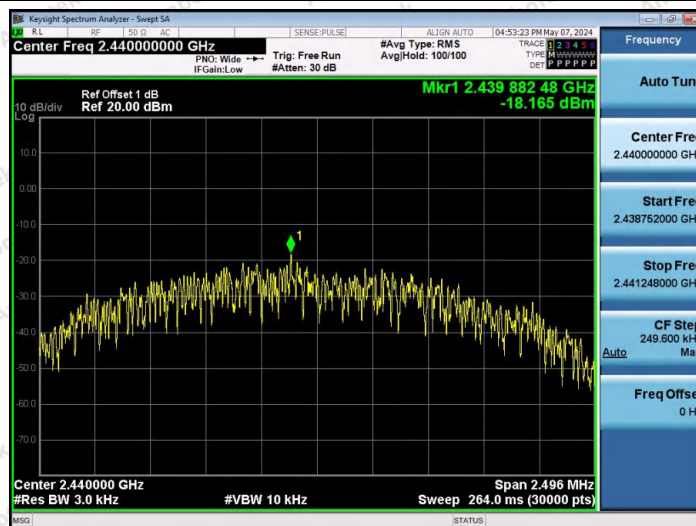


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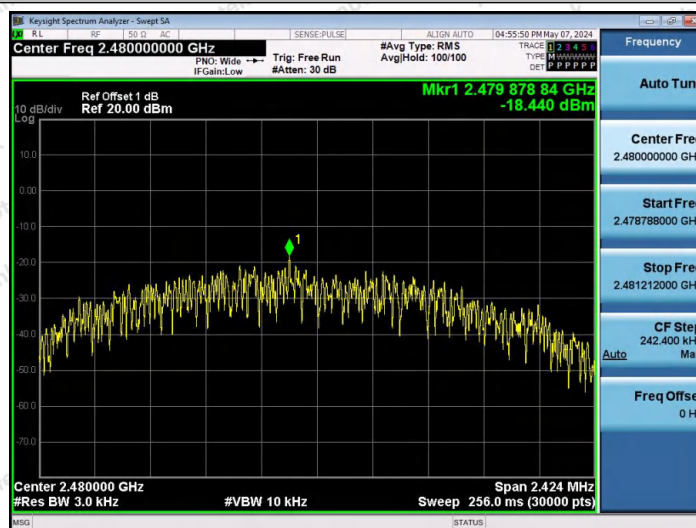




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

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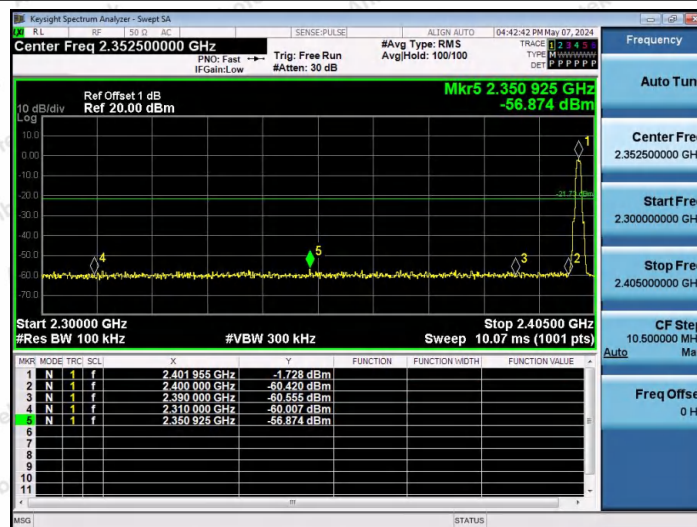
Appendix E: Band edge measurements

Test Result

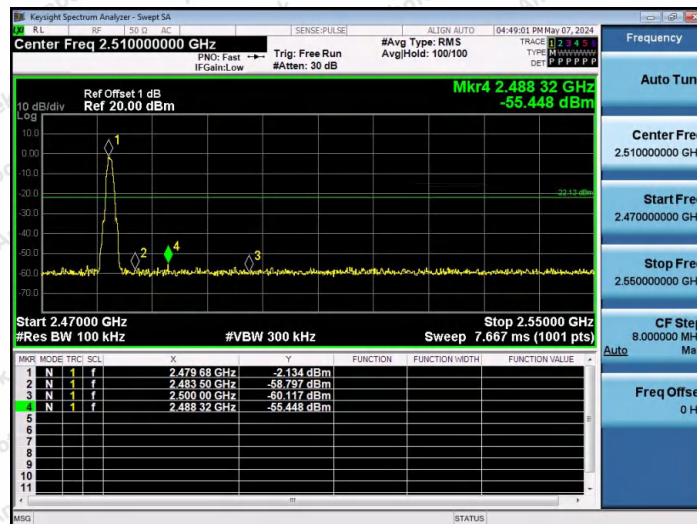
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.73	-56.87	≤-21.73	PASS
BLE_1M	Ant1	High	2480	-2.13	-55.45	≤-22.13	PASS
BLE_2M	Ant1	Low	2402	-1.80	-34.78	≤-21.8	PASS
BLE_2M	Ant1	High	2480	-2.20	-56.51	≤-22.2	PASS



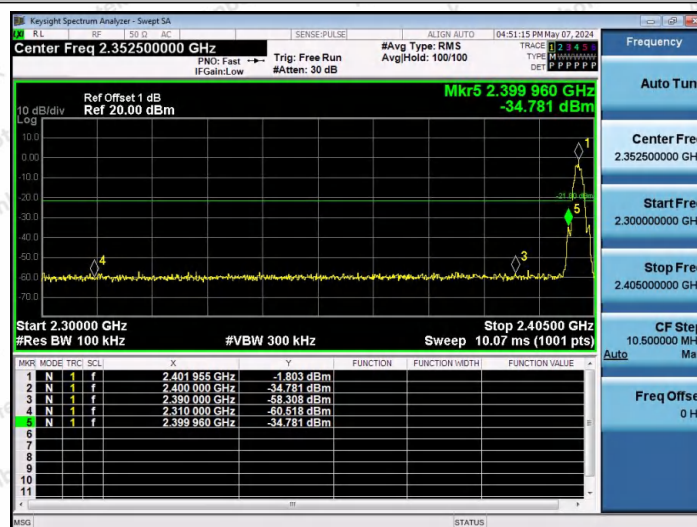
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS

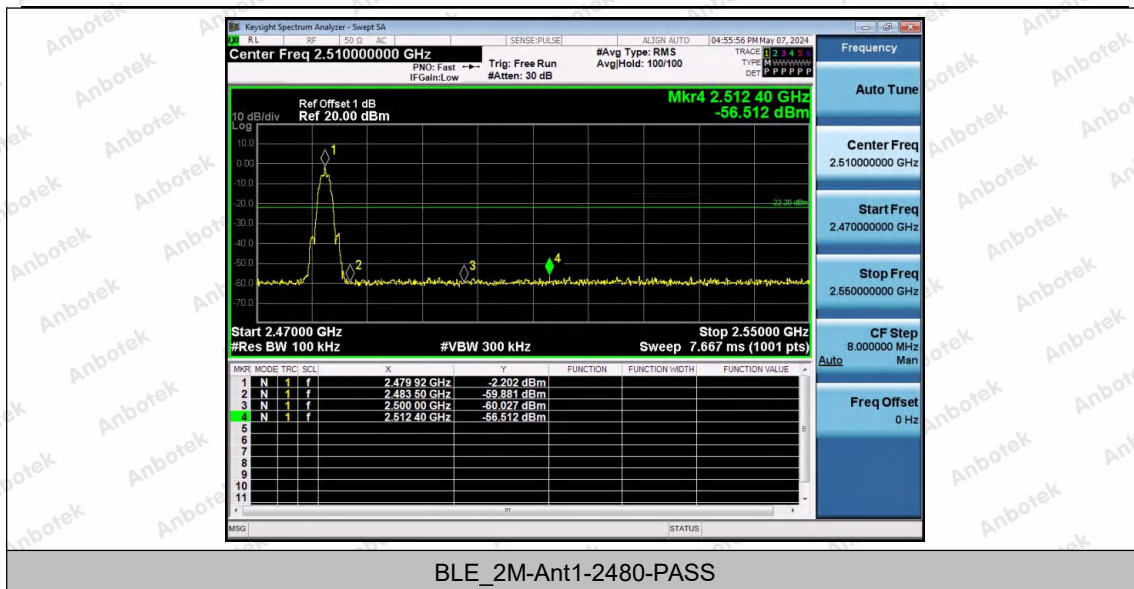
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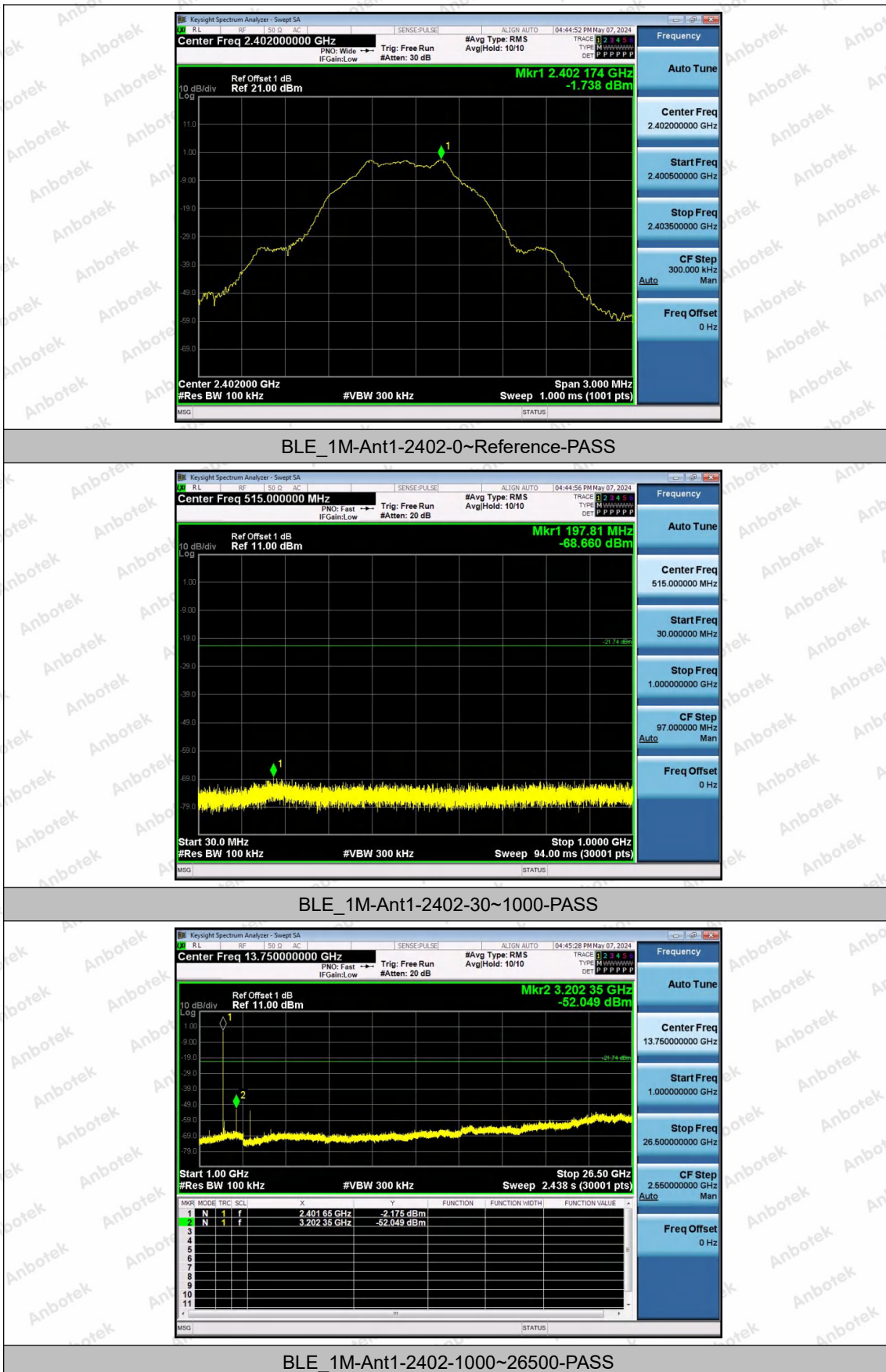
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-1.74	-1.74	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.74	-68.66	≤-21.74	PASS
BLE_1M	Ant1	2402	1000~26500	-1.74	-52.05	≤-21.74	PASS
BLE_1M	Ant1	2440	0~Reference	-1.87	-1.87	---	PASS
BLE_1M	Ant1	2440	30~1000	-1.87	-68.79	≤-21.87	PASS
BLE_1M	Ant1	2440	1000~26500	-1.87	-52.93	≤-21.87	PASS
BLE_1M	Ant1	2480	0~Reference	-2.12	-2.12	---	PASS
BLE_1M	Ant1	2480	30~1000	-2.12	-67.7	≤-22.12	PASS
BLE_1M	Ant1	2480	1000~26500	-2.12	-53.1	≤-22.12	PASS
BLE_2M	Ant1	2402	0~Reference	-1.92	-1.92	---	PASS
BLE_2M	Ant1	2402	30~1000	-1.92	-66.74	≤-21.92	PASS
BLE_2M	Ant1	2402	1000~26500	-1.92	-51.7	≤-21.92	PASS
BLE_2M	Ant1	2440	0~Reference	-2.02	-2.02	---	PASS
BLE_2M	Ant1	2440	30~1000	-2.02	-68.4	≤-22.02	PASS
BLE_2M	Ant1	2440	1000~26500	-2.02	-52.45	≤-22.02	PASS
BLE_2M	Ant1	2480	0~Reference	-2.24	-2.24	---	PASS
BLE_2M	Ant1	2480	30~1000	-2.24	-68.12	≤-22.24	PASS
BLE_2M	Ant1	2480	1000~26500	-2.24	-53.74	≤-22.24	PASS



Test Graphs



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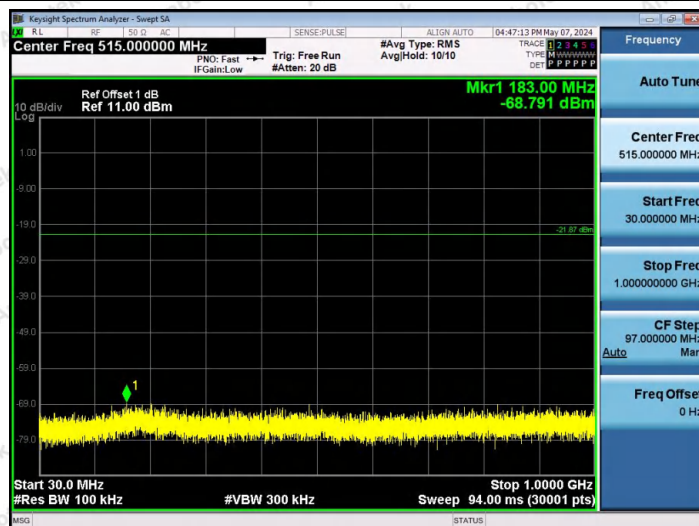


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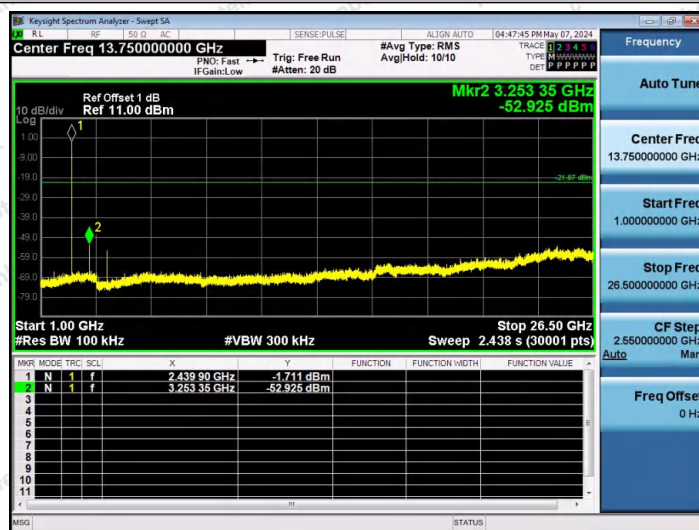




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

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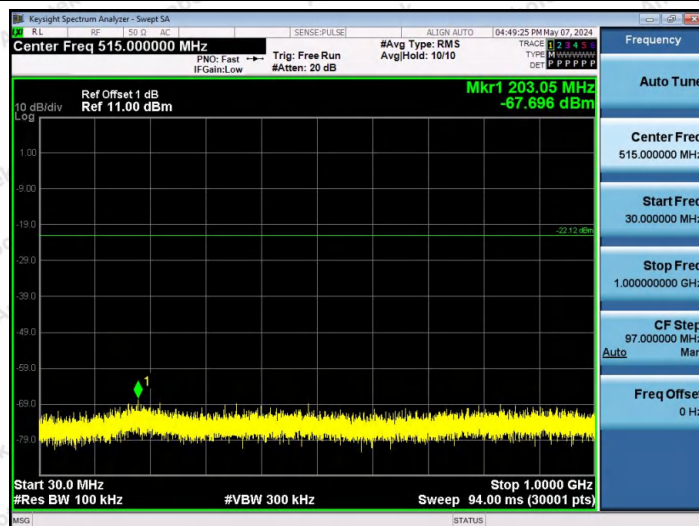


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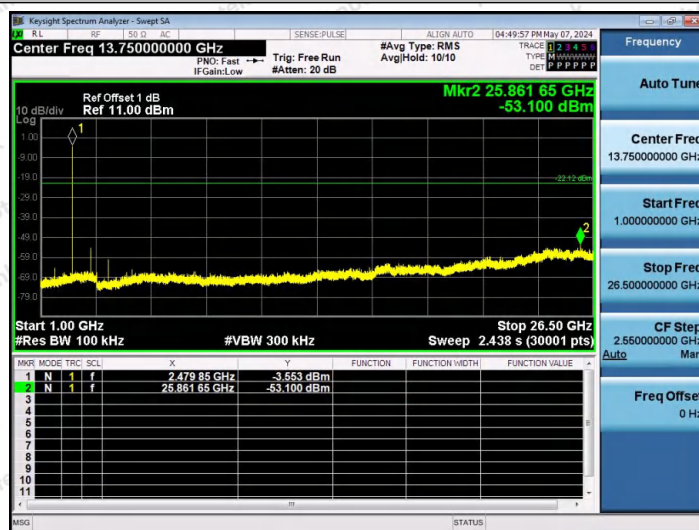




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS

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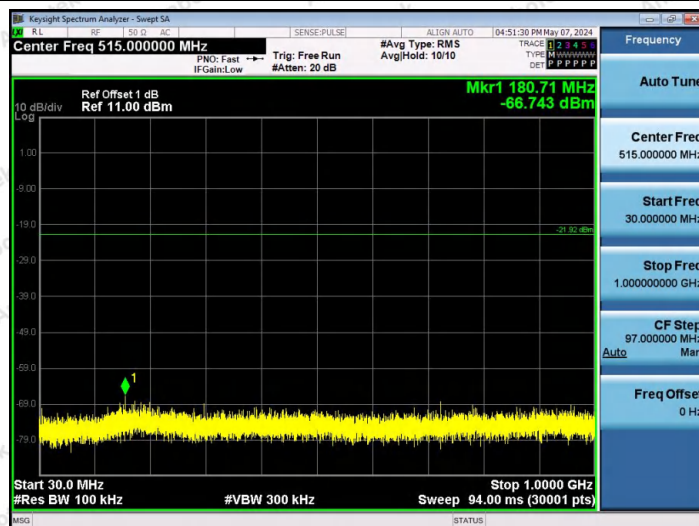


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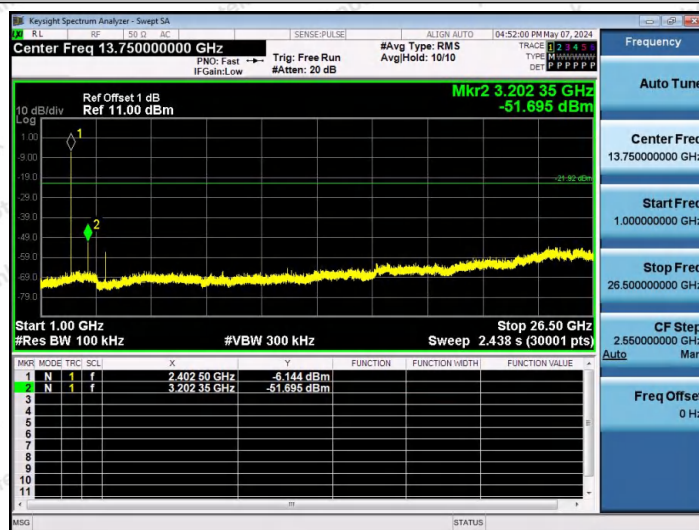




BLE_2M-Ant1-2402-0~Reference-PASS



BLE_2M-Ant1-2402-30~1000-PASS



BLE_2M-Ant1-2402-1000~26500-PASS

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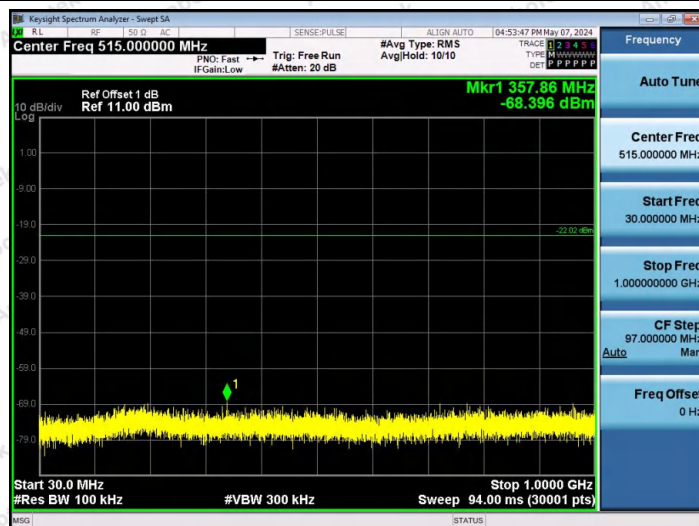


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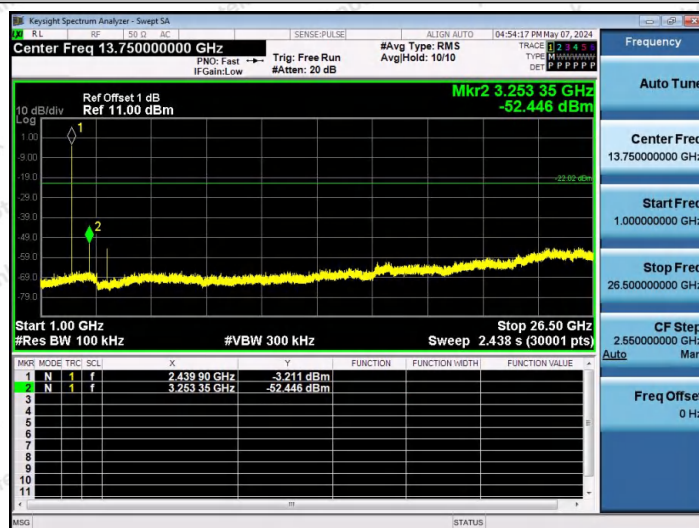




BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-PASS



BLE_2M-Ant1-2440-1000~26500-PASS

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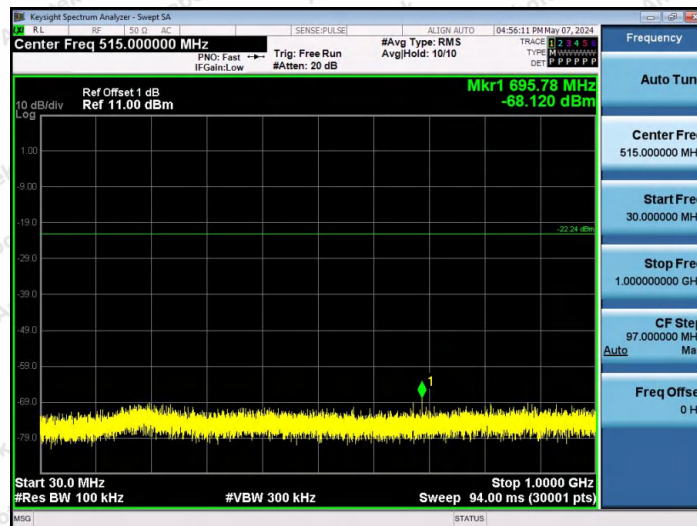


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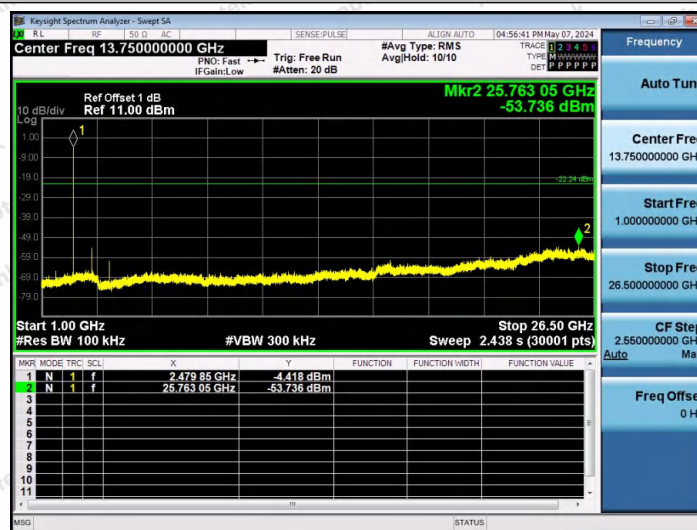




BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS

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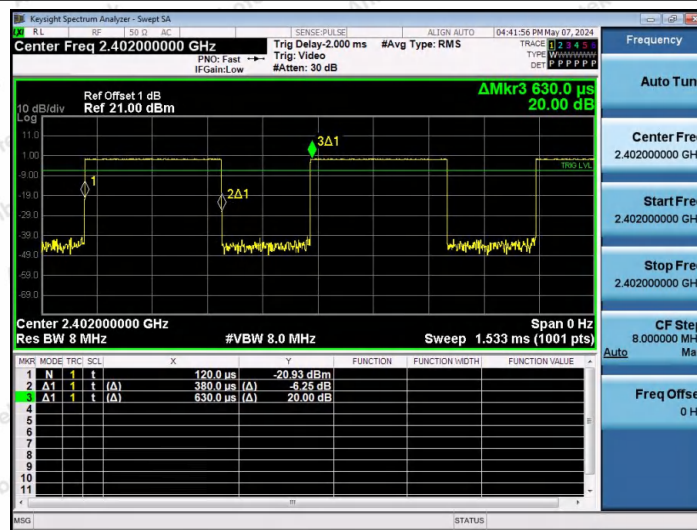
Appendix G: Duty Cycle

Test Result

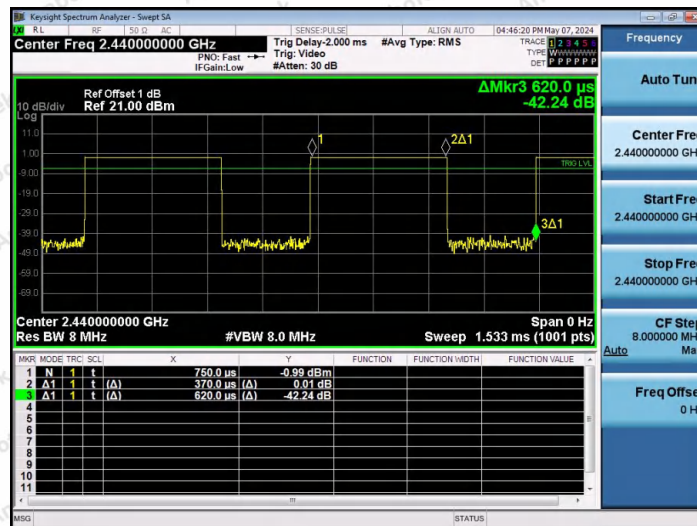
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.38	0.63	60.32	2.20
BLE_1M	Ant1	2440	0.37	0.62	59.68	2.24
BLE_1M	Ant1	2480	0.38	0.63	60.32	2.20
BLE_2M	Ant1	2402	0.20	0.63	31.75	4.98
BLE_2M	Ant1	2440	0.20	0.63	31.75	4.98
BLE_2M	Ant1	2480	0.20	0.63	31.75	4.98



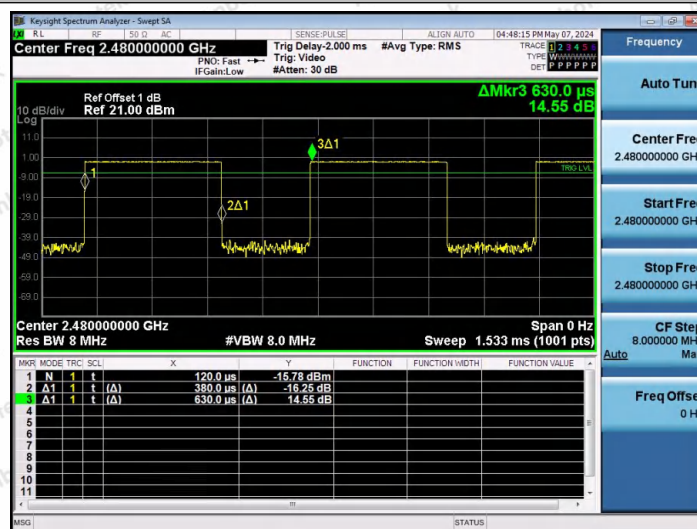
Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440



NTNV-BLE_1M-Ant1-2480

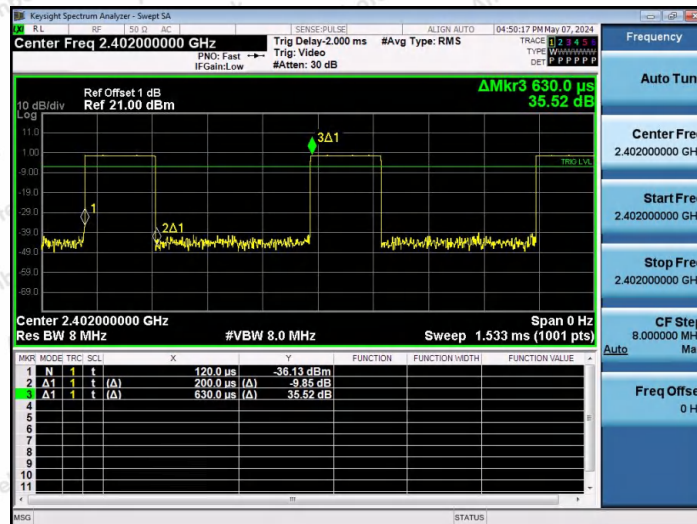
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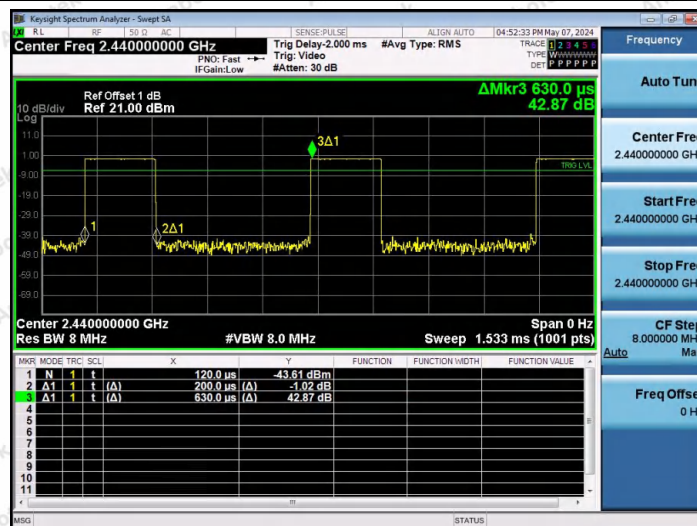


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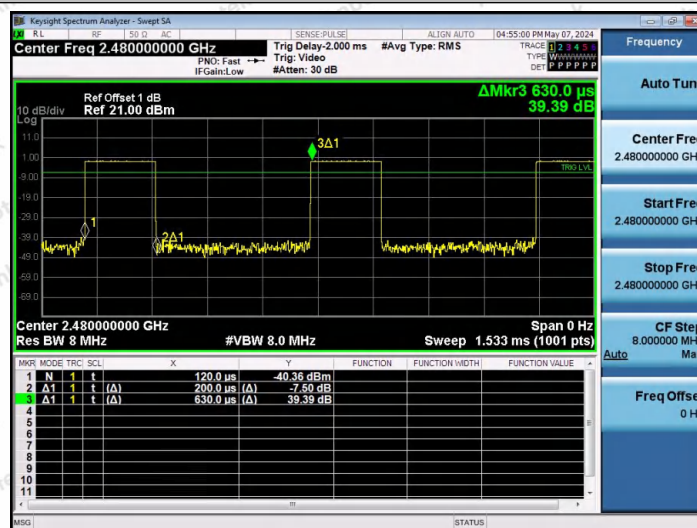




NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---End---

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