

Appendix Test Data

Report No.:	1813C40012512502	Test Sample No.:	1-2-2
Start Test Date:	2024.08.28	Finish Test Date:	2024.08.28
Test Engineer:	Joker Wang	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	0.688	2401.660	2402.348	0.5	PASS
BLE_1M	Ant1	2440	0.704	2439.664	2440.368	0.5	PASS
BLE_1M	Ant1	2480	0.688	2479.672	2480.360	0.5	PASS
BLE_2M	Ant1	2402	1.104	2401.468	2402.572	0.5	PASS
BLE_2M	Ant1	2440	1.108	2439.468	2440.576	0.5	PASS
BLE_2M	Ant1	2480	1.088	2479.476	2480.564	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



Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0618	2401.4883	2402.5501	---	---
BLE_1M	Ant1	2440	1.0553	2439.4918	2440.5471	---	---
BLE_1M	Ant1	2480	1.0556	2479.4975	2480.5531	---	---
BLE_2M	Ant1	2402	2.0813	2400.9909	2403.0722	---	---
BLE_2M	Ant1	2440	2.0842	2438.9882	2441.0724	---	---
BLE_2M	Ant1	2480	2.1010	2478.9803	2481.0813	---	---



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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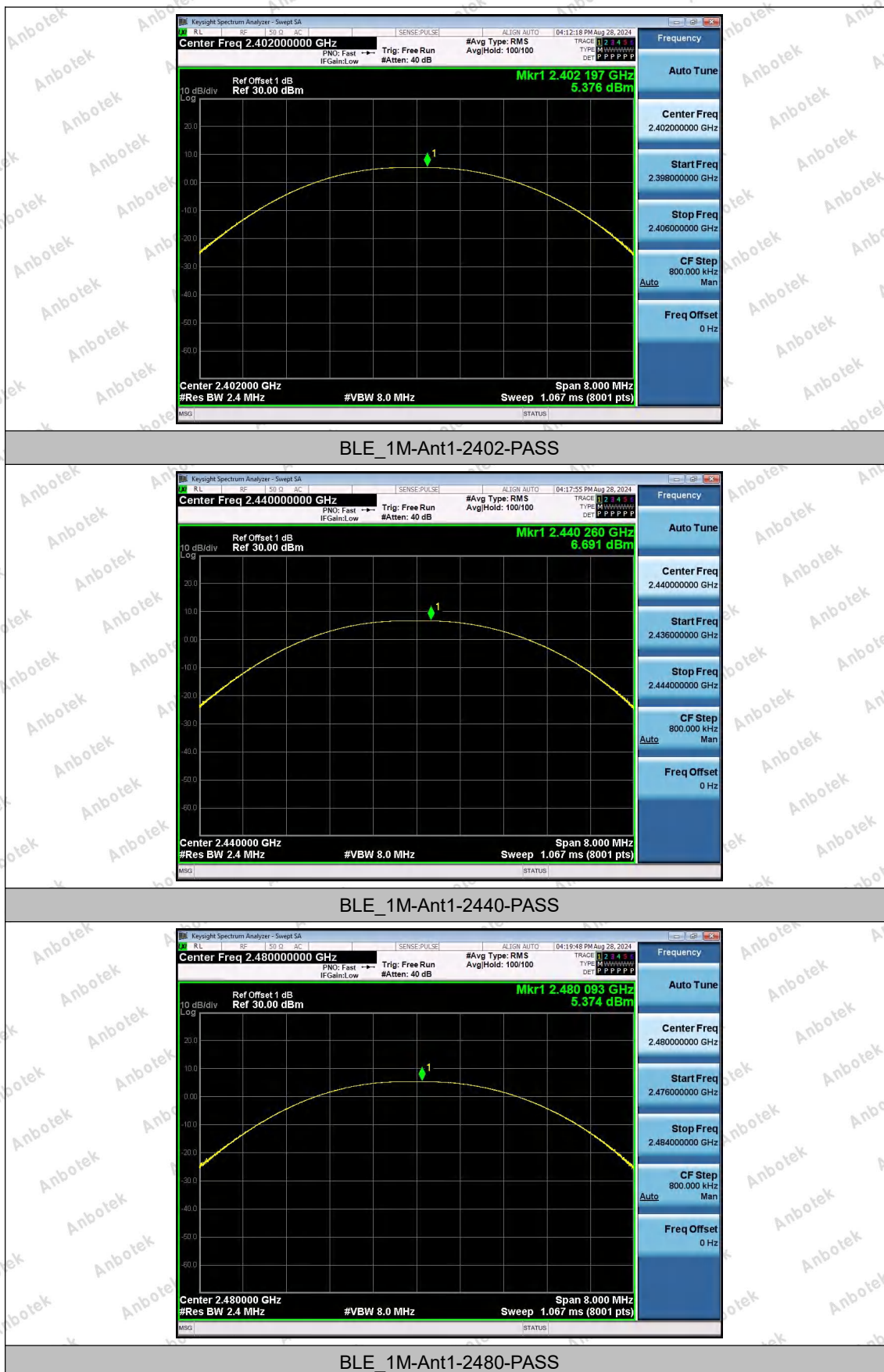
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power [dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	5.38	≤30	PASS
BLE_1M	Ant1	2440	6.69	≤30	PASS
BLE_1M	Ant1	2480	5.37	≤30	PASS
BLE_2M	Ant1	2402	5.44	≤30	PASS
BLE_2M	Ant1	2440	6.70	≤30	PASS
BLE_2M	Ant1	2480	5.38	≤30	PASS



Test Graphs Peak



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BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



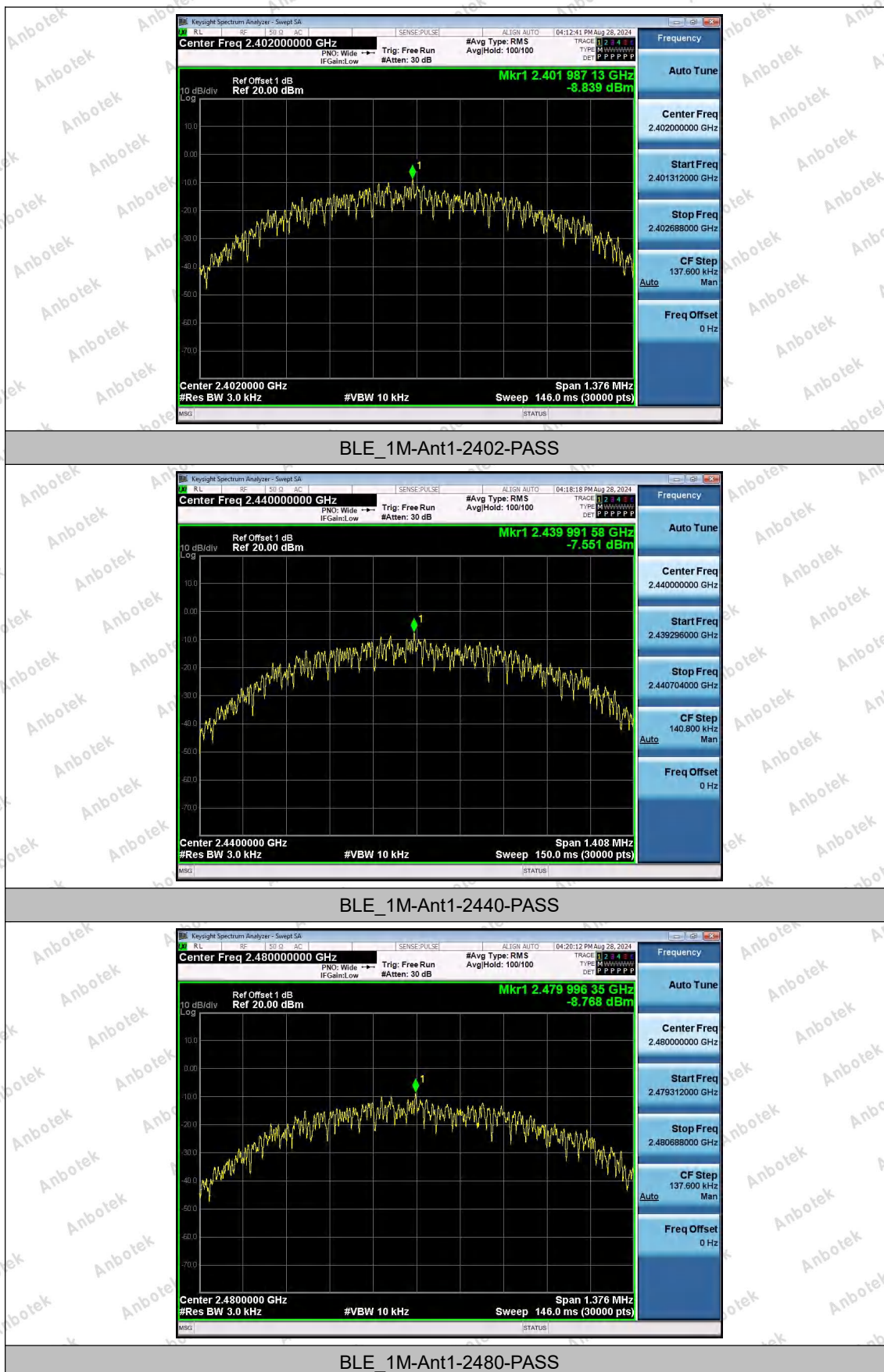
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.84	≤8.00	PASS
BLE_1M	Ant1	2440	-7.55	≤8.00	PASS
BLE_1M	Ant1	2480	-8.77	≤8.00	PASS
BLE_2M	Ant1	2402	-11.69	≤8.00	PASS
BLE_2M	Ant1	2440	-10.35	≤8.00	PASS
BLE_2M	Ant1	2480	-11.69	≤8.00	PASS



Test Graphs



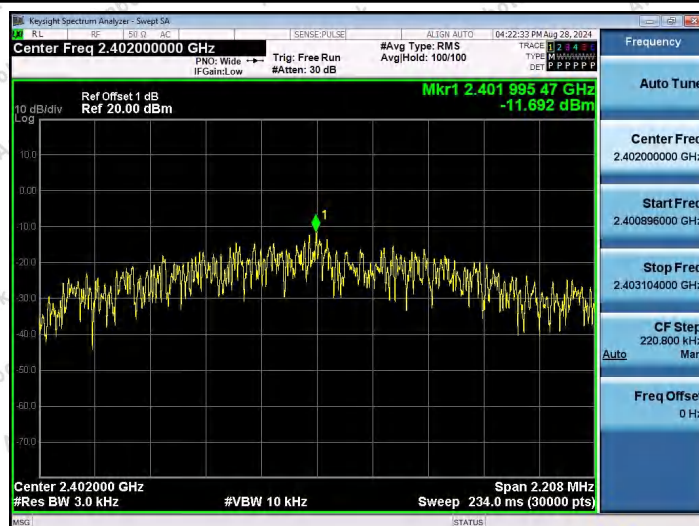
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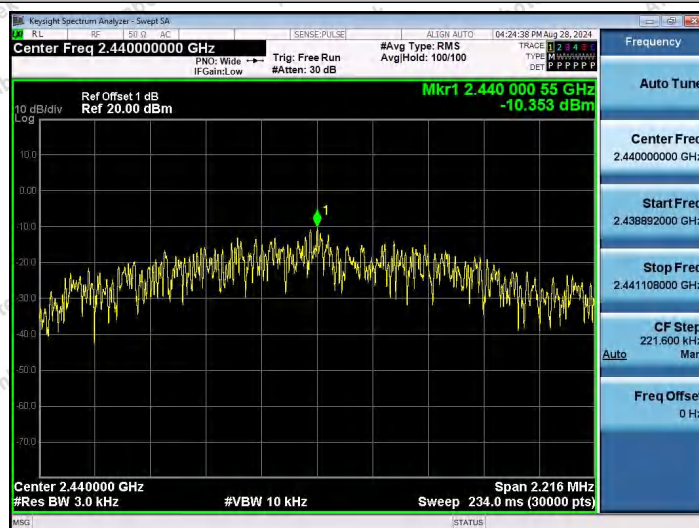


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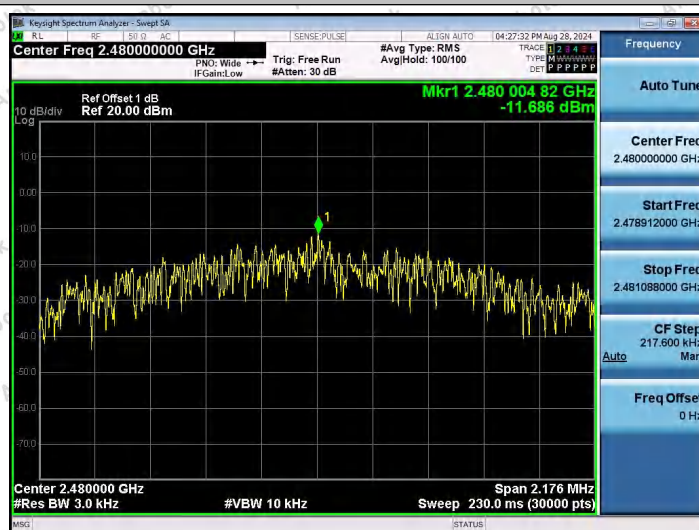




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

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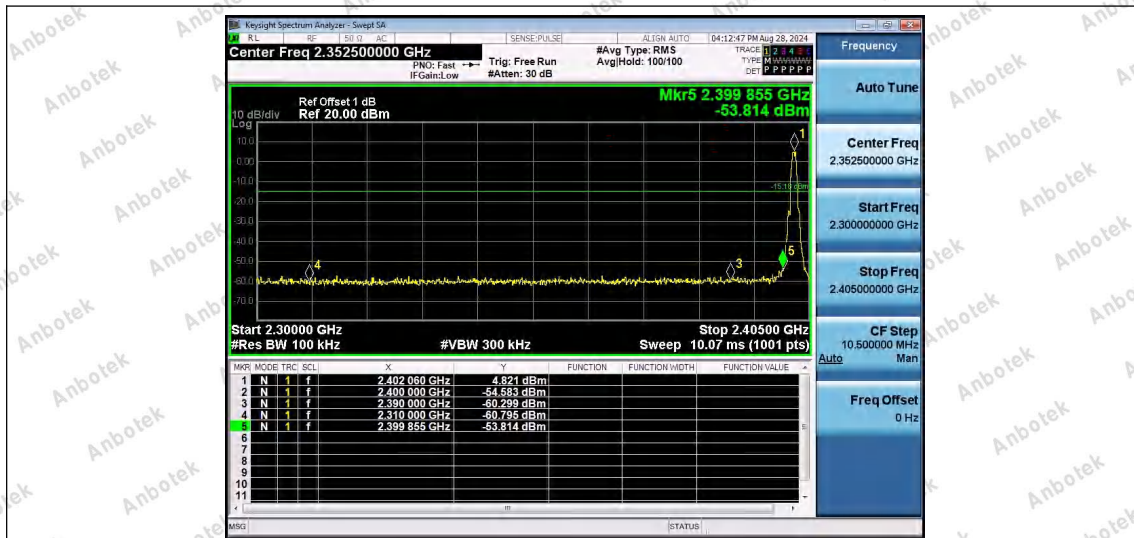
Appendix E: Band edge measurements

Test Result

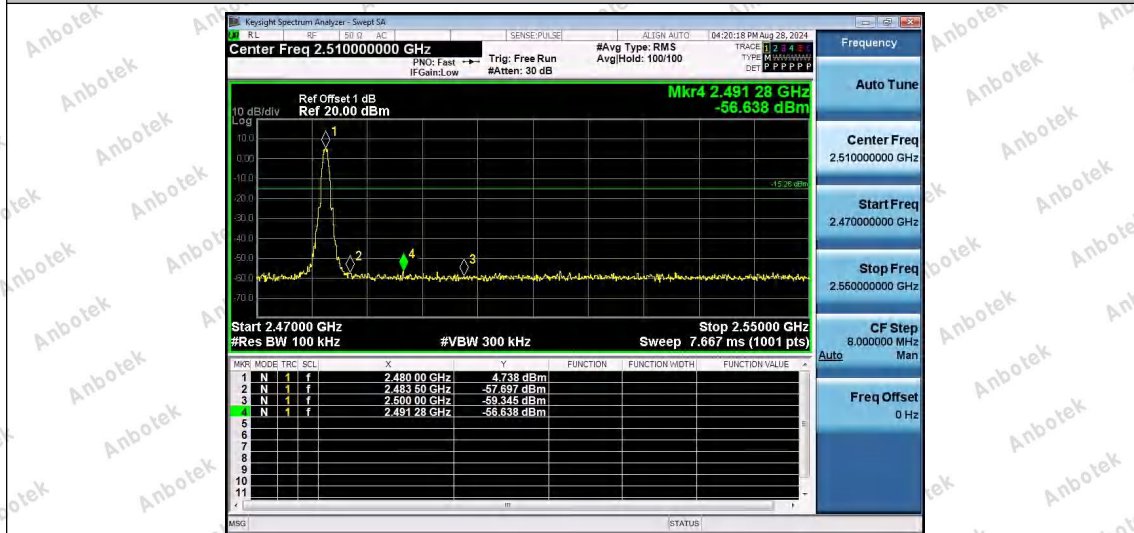
TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	4.82	-53.81	≤-15.18	PASS
BLE_1M	Ant1	High	2480	4.74	-56.64	≤-15.26	PASS
BLE_2M	Ant1	Low	2402	4.37	-26.73	≤-15.63	PASS
BLE_2M	Ant1	High	2480	2.32	-56.21	≤-17.68	PASS



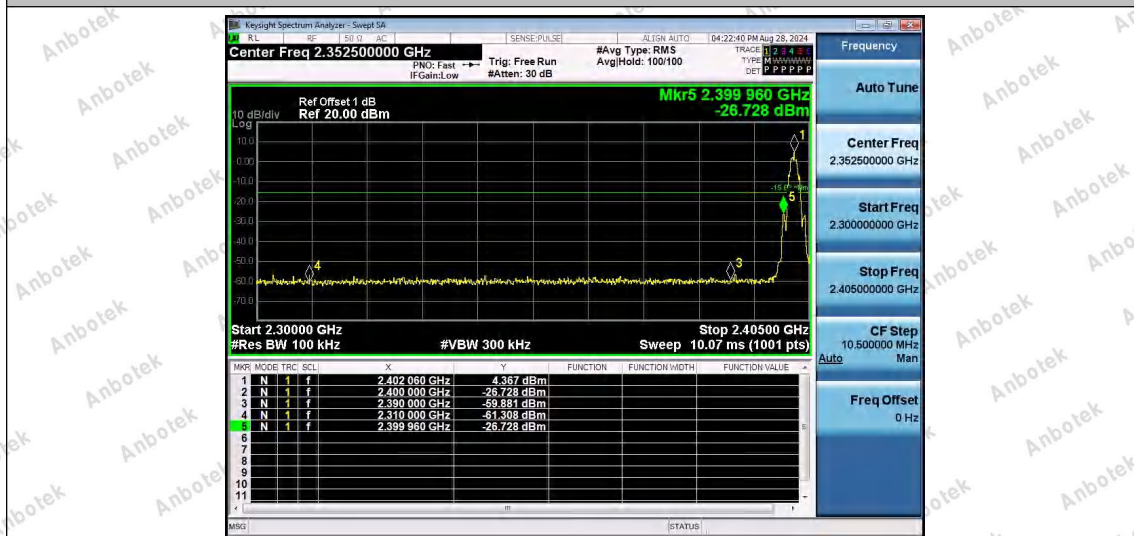
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS

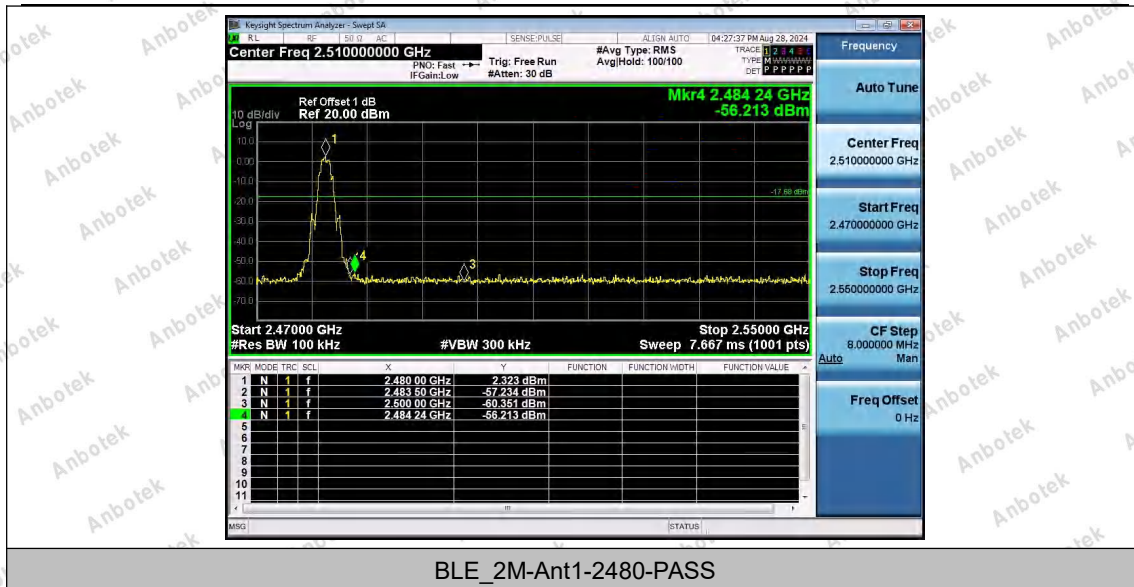
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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	3.41	3.41	---	PASS
BLE_1M	Ant1	2402	30~1000	3.41	-68.71	≤-16.59	PASS
BLE_1M	Ant1	2402	1000~26500	3.41	-53.33	≤-16.59	PASS
BLE_1M	Ant1	2440	0~Reference	5.89	5.89	---	PASS
BLE_1M	Ant1	2440	30~1000	5.89	-67.09	≤-14.11	PASS
BLE_1M	Ant1	2440	1000~26500	5.89	-53.08	≤-14.11	PASS
BLE_1M	Ant1	2480	0~Reference	3.77	3.77	---	PASS
BLE_1M	Ant1	2480	30~1000	3.77	-68.48	≤-16.23	PASS
BLE_1M	Ant1	2480	1000~26500	3.77	-53.53	≤-16.23	PASS
BLE_2M	Ant1	2402	0~Reference	3.97	3.97	---	PASS
BLE_2M	Ant1	2402	30~1000	3.97	-68.97	≤-16.03	PASS
BLE_2M	Ant1	2402	1000~26500	3.97	-52.66	≤-16.03	PASS
BLE_2M	Ant1	2440	0~Reference	4.78	4.78	---	PASS
BLE_2M	Ant1	2440	30~1000	4.78	-68.24	≤-15.22	PASS
BLE_2M	Ant1	2440	1000~26500	4.78	-53.08	≤-15.22	PASS
BLE_2M	Ant1	2480	0~Reference	1.63	1.63	---	PASS
BLE_2M	Ant1	2480	30~1000	1.63	-68.23	≤-18.37	PASS
BLE_2M	Ant1	2480	1000~26500	1.63	-51.99	≤-18.37	PASS



Test Graphs



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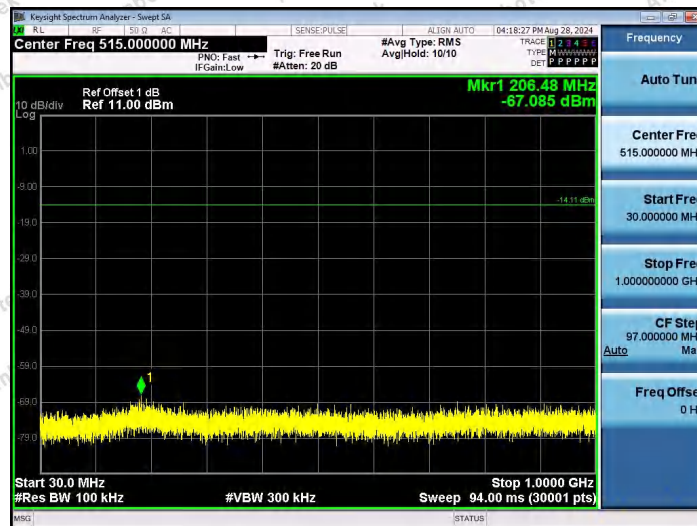


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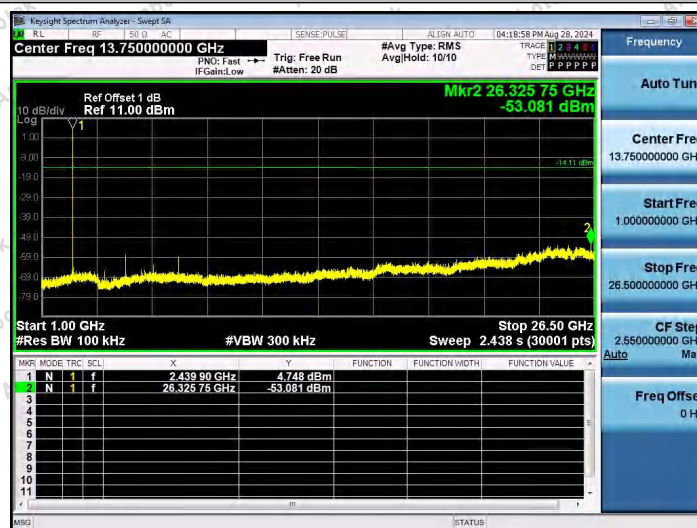




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

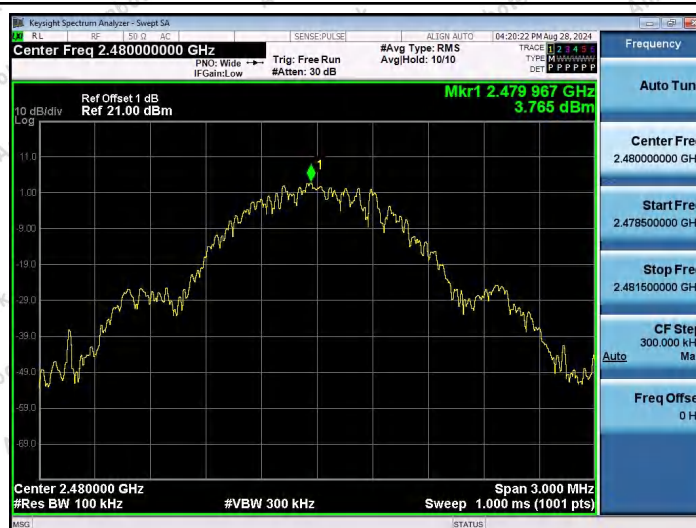
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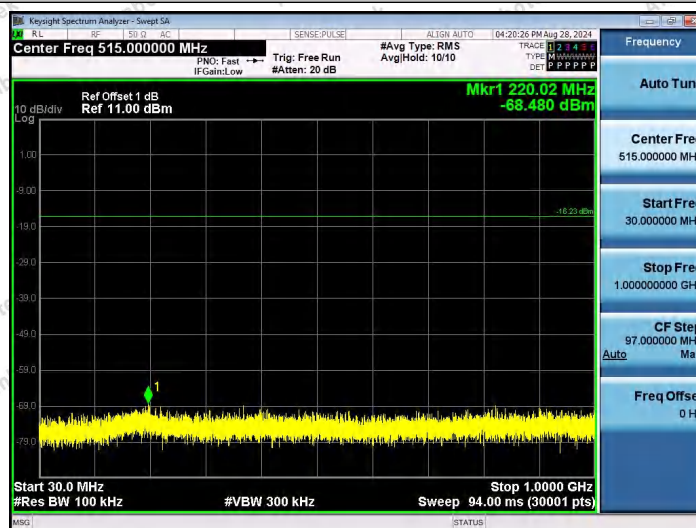


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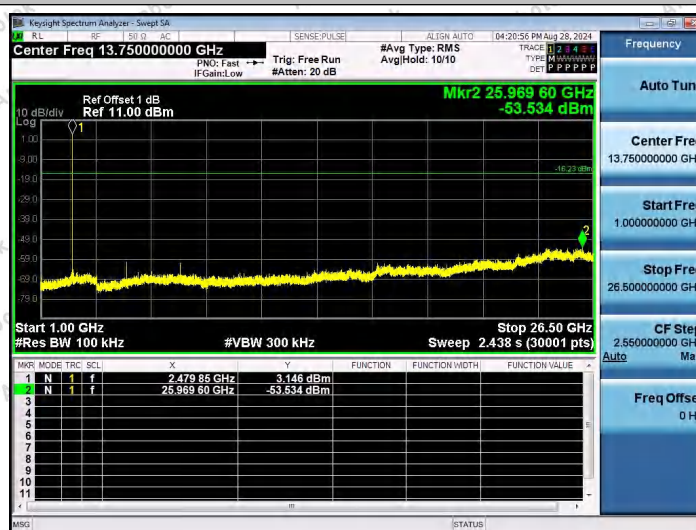




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS

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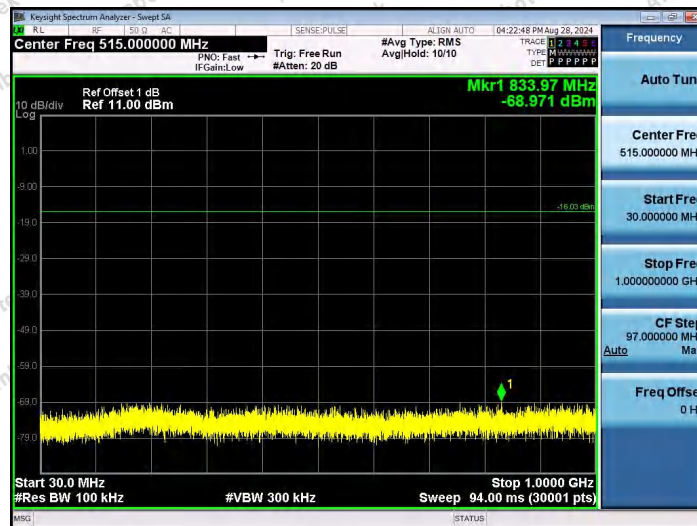


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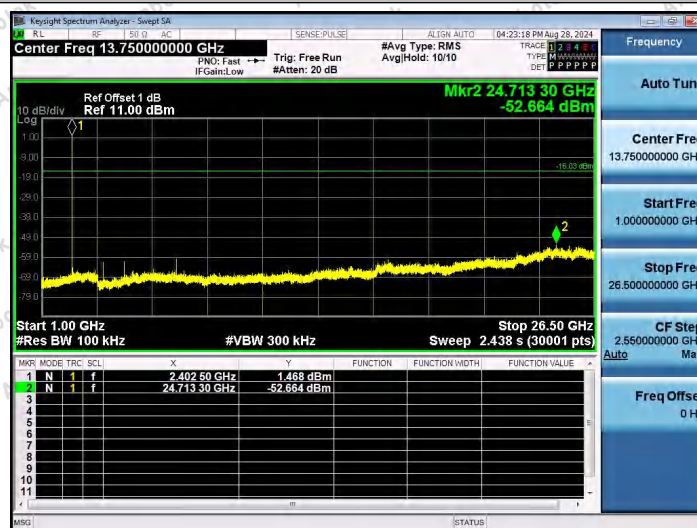




BLE_2M-Ant1-2402-0~Reference-PASS



BLE_2M-Ant1-2402-30~1000-PASS



BLE_2M-Ant1-2402-1000~26500-PASS

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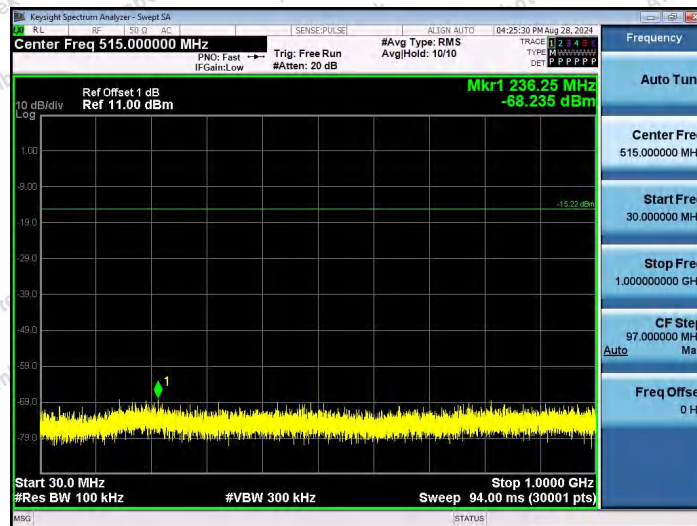


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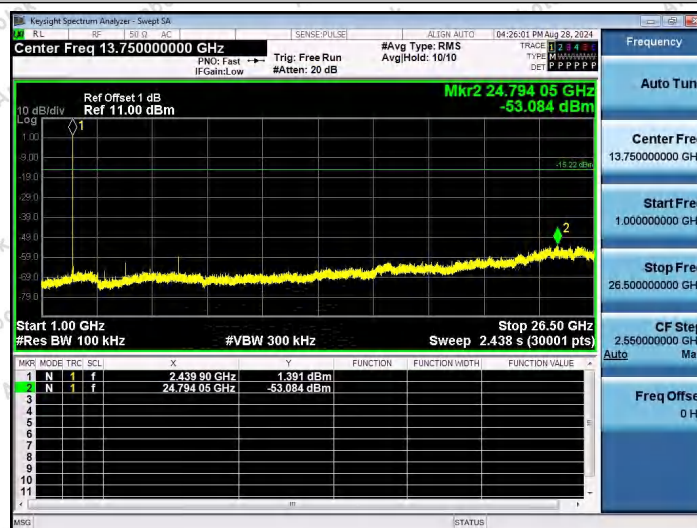




BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-PASS



BLE_2M-Ant1-2440-1000~26500-PASS

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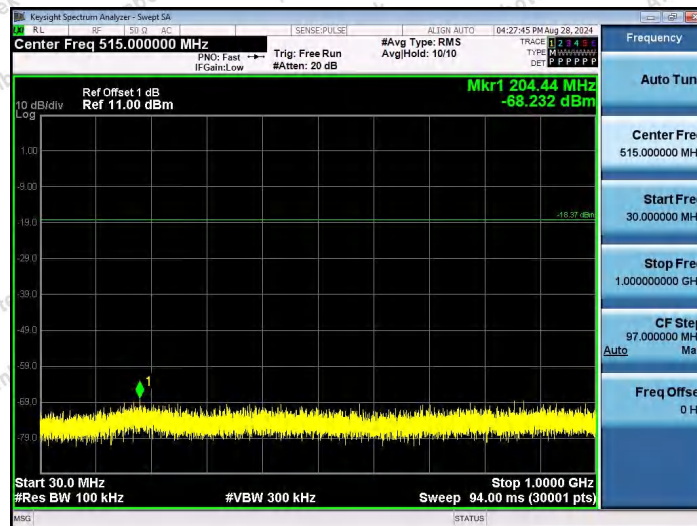


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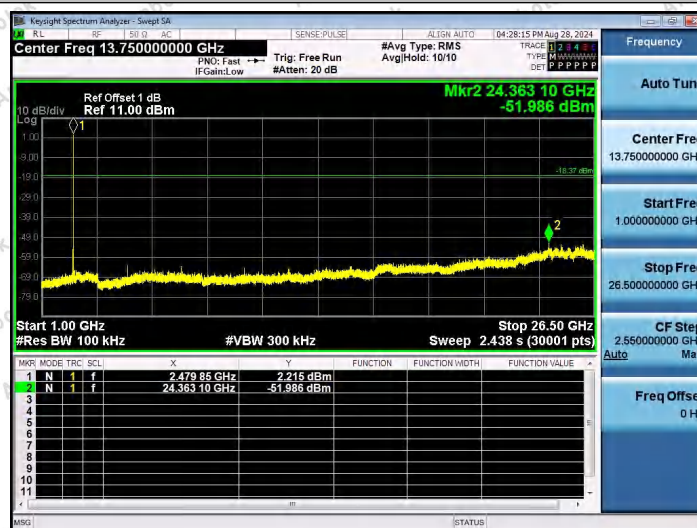




BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS

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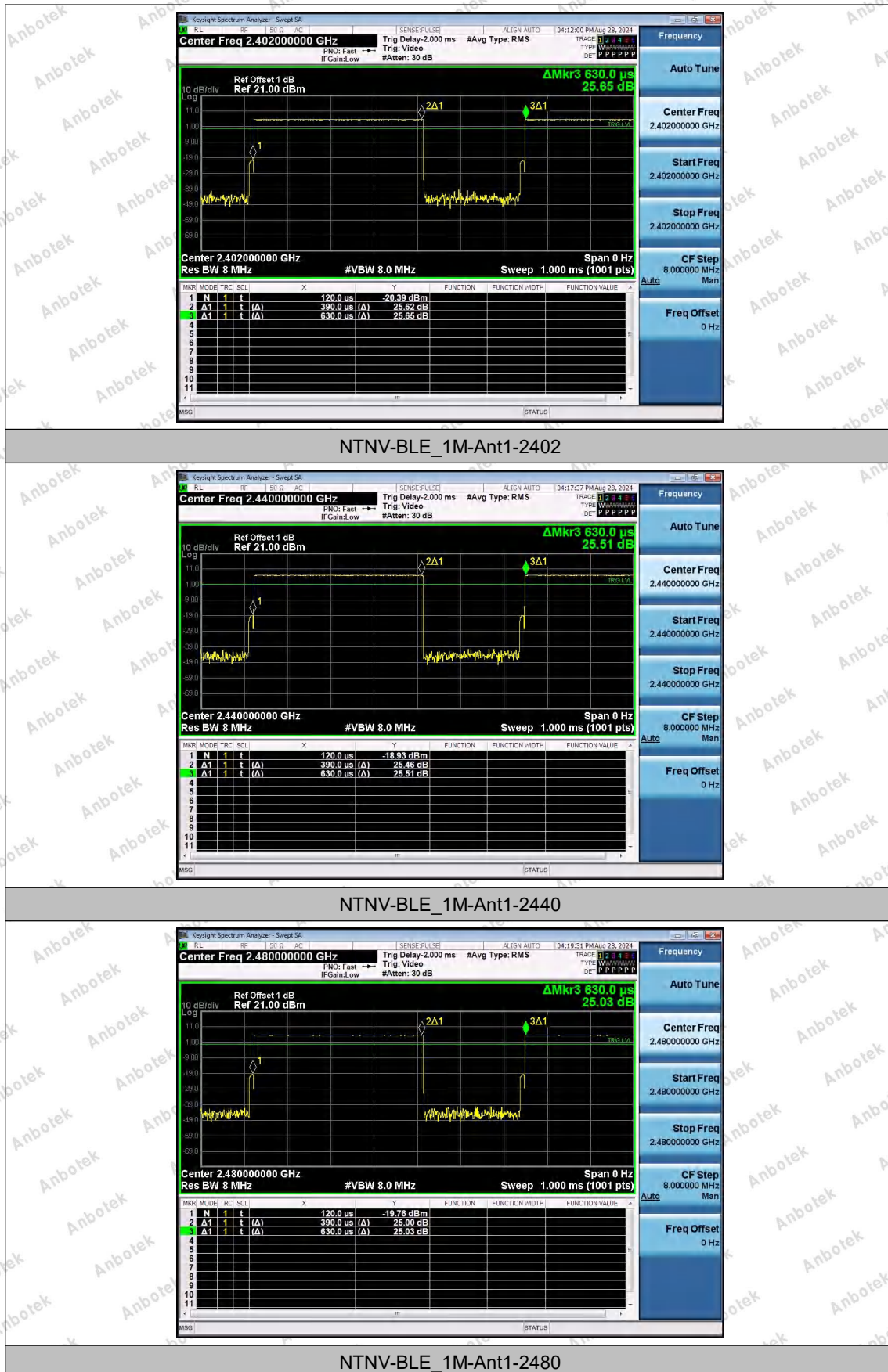
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.63	61.90	2.08
BLE_1M	Ant1	2440	0.39	0.63	61.90	2.08
BLE_1M	Ant1	2480	0.39	0.63	61.90	2.08
BLE_2M	Ant1	2402	0.21	0.63	33.33	4.77
BLE_2M	Ant1	2440	0.21	0.63	33.33	4.77
BLE_2M	Ant1	2480	0.21	0.63	33.33	4.77



Test Graphs



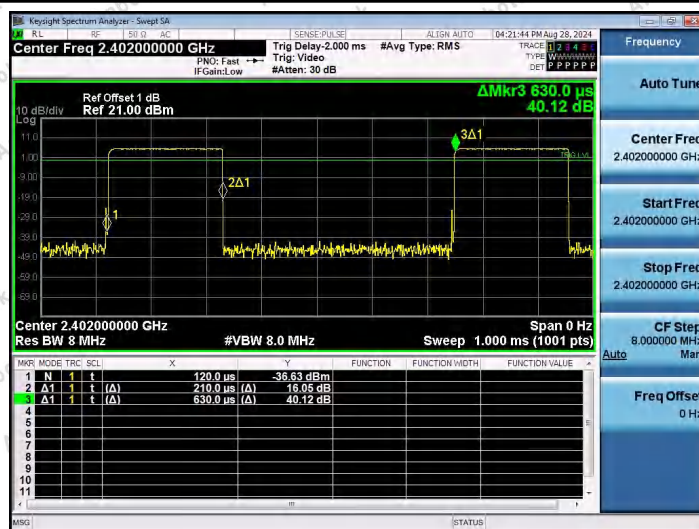
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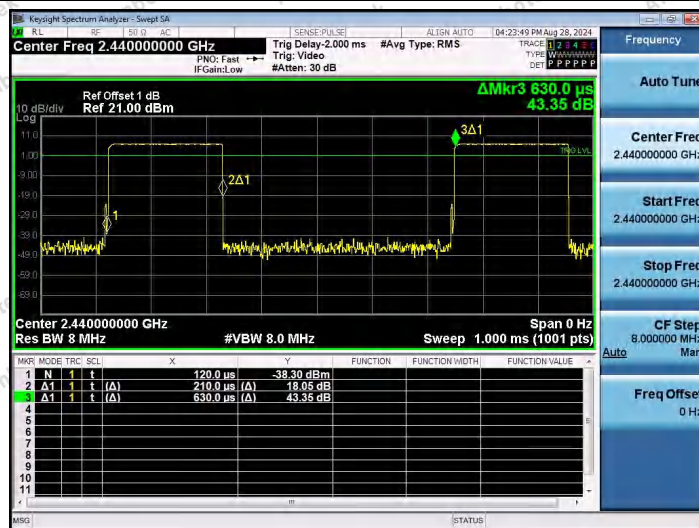


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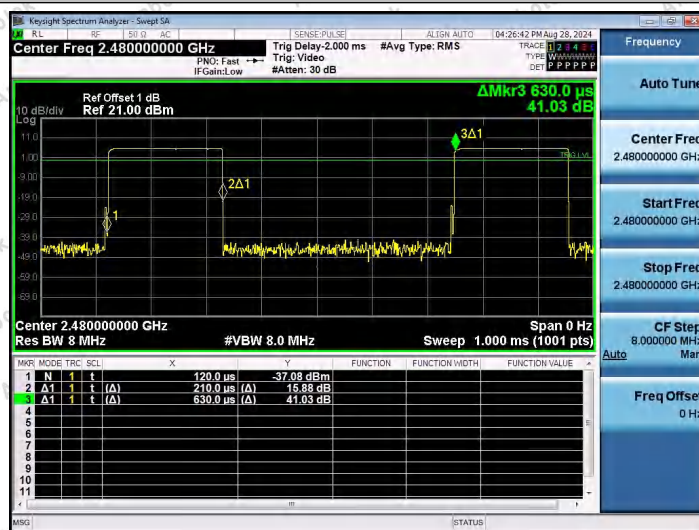




NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---End---

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