

Appendix Test Data

Report No.:	1814C40017612501	Test Sample No.:	1-2-2
Start Test Date:	2024.08.21	Finish Test Date:	2024.08.23
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25.3℃	Relative Humidity:	48%
Pressure:	101kPa		

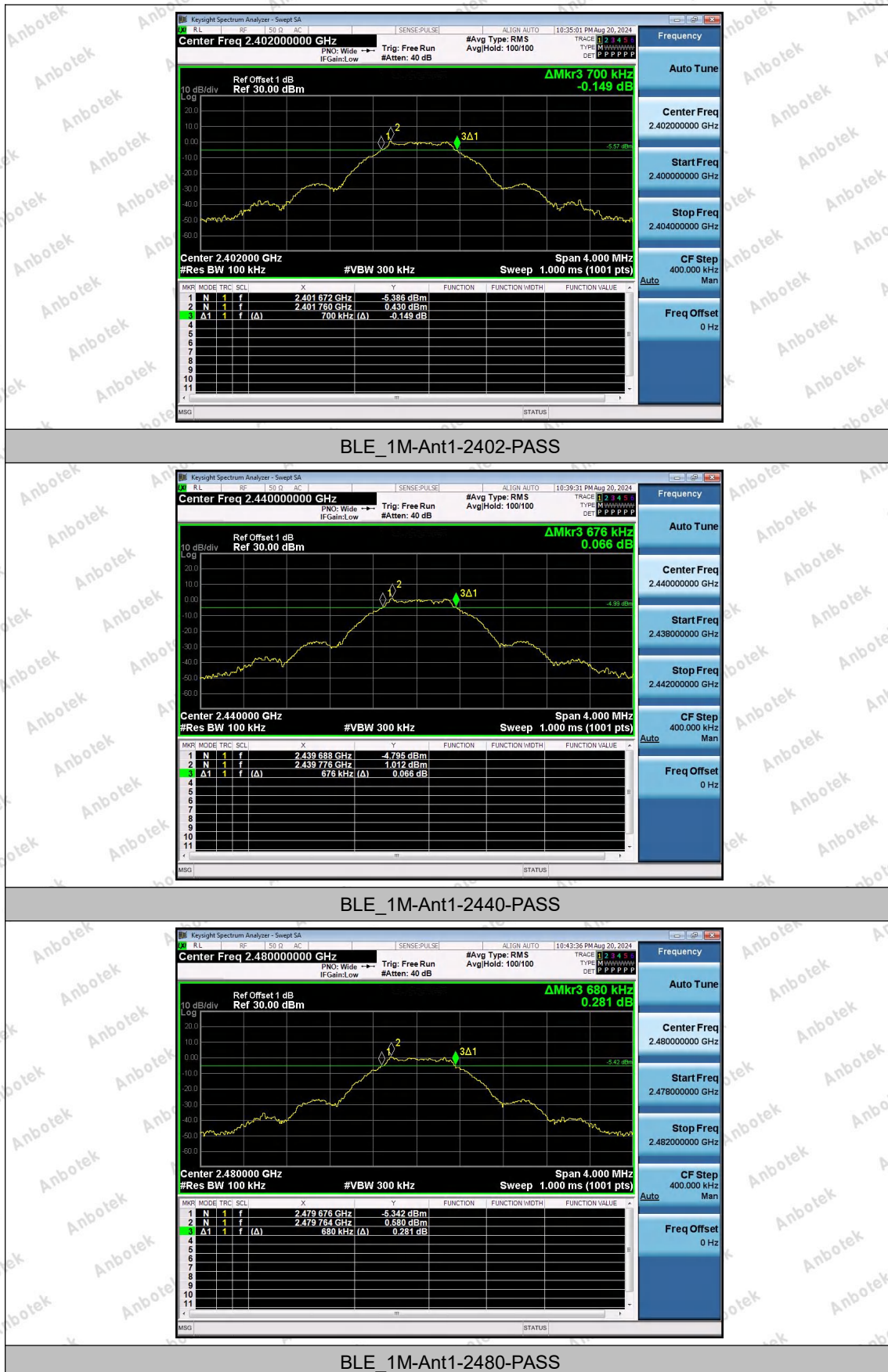
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.700	2401.672	2402.372	0.5	PASS
BLE_1M	Ant1	2440	0.676	2439.688	2440.364	0.5	PASS
BLE_1M	Ant1	2480	0.680	2479.676	2480.356	0.5	PASS
BLE_2M	Ant1	2402	1.096	2401.440	2402.536	0.5	PASS
BLE_2M	Ant1	2440	1.268	2439.376	2440.644	0.5	PASS
BLE_2M	Ant1	2480	1.108	2479.460	2480.568	0.5	PASS



Test Graphs



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BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



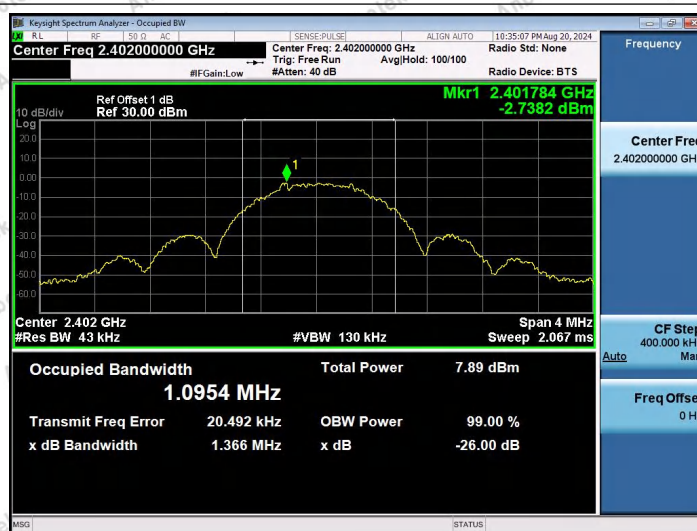
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0954	2401.4728	2402.5682	---	---
BLE_1M	Ant1	2440	1.1040	2439.4691	2440.5731	---	---
BLE_1M	Ant1	2480	1.0982	2479.4716	2480.5698	---	---
BLE_2M	Ant1	2402	2.0853	2400.9700	2403.0553	---	---
BLE_2M	Ant1	2440	2.0843	2438.9735	2441.0578	---	---
BLE_2M	Ant1	2480	2.0761	2478.9741	2481.0502	---	---



Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



BLE_1M-Ant1-2480

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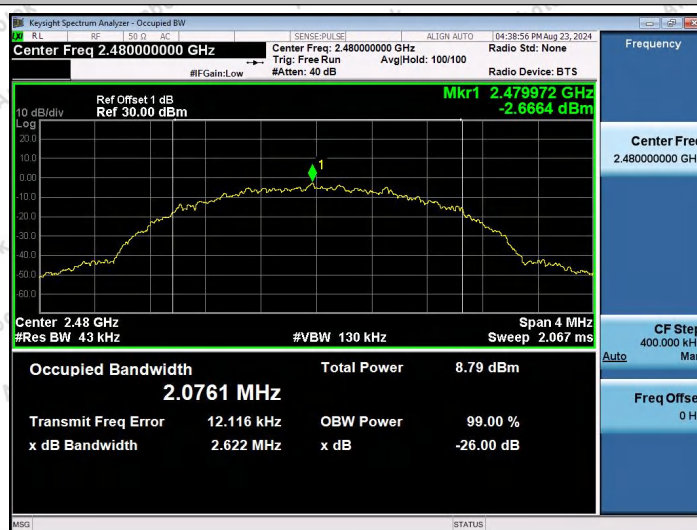




BLE_2M-Ant1-2402



BLE_2M-Ant1-2440



BLE_2M-Ant1-2480

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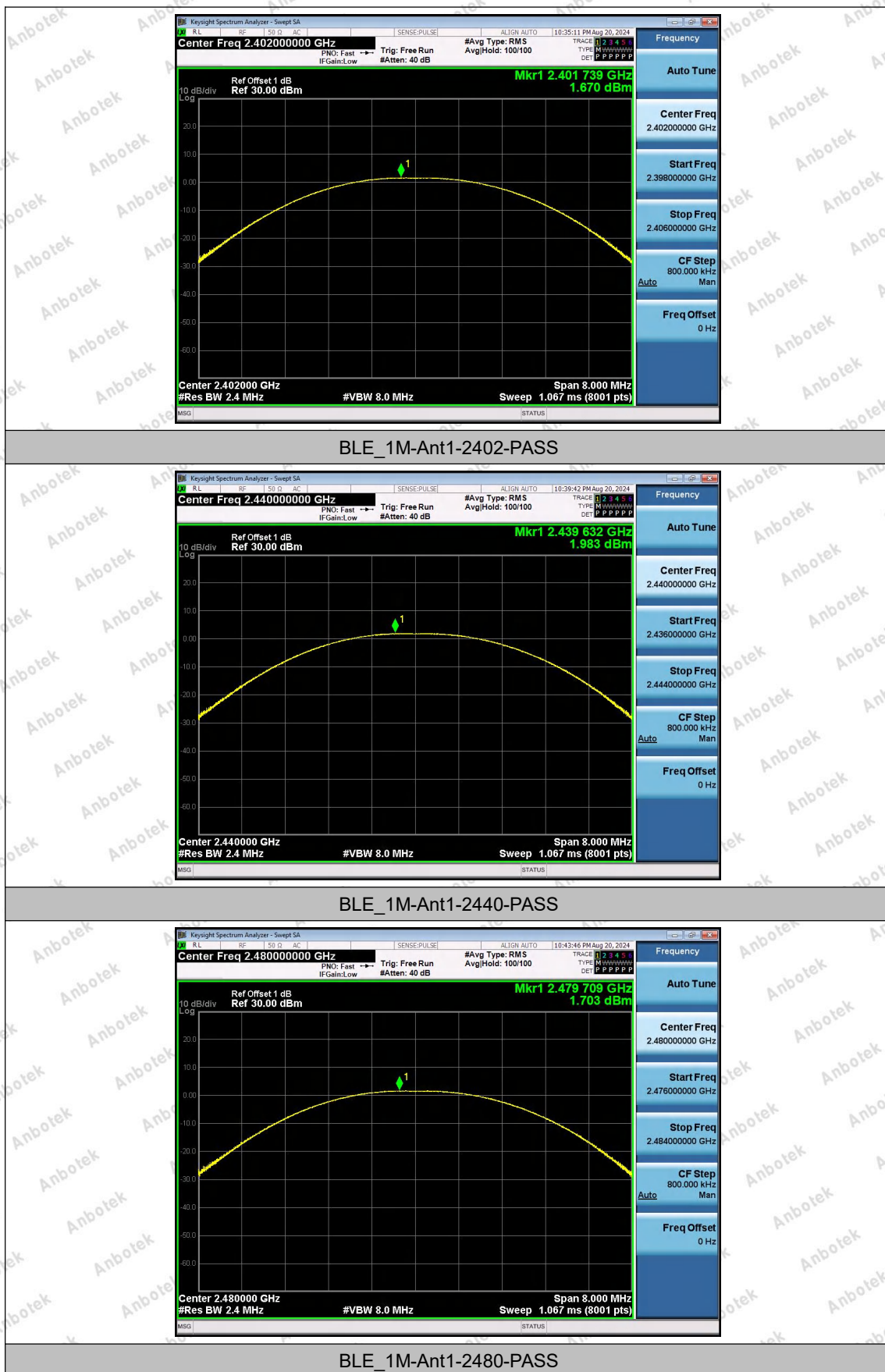
Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power [dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.67	≤30	PASS
BLE_1M	Ant1	2440	1.98	≤30	PASS
BLE_1M	Ant1	2480	1.70	≤30	PASS
BLE_2M	Ant1	2402	2.80	≤30	PASS
BLE_2M	Ant1	2440	1.90	≤30	PASS
BLE_2M	Ant1	2480	2.92	≤30	PASS



Test Graphs Peak



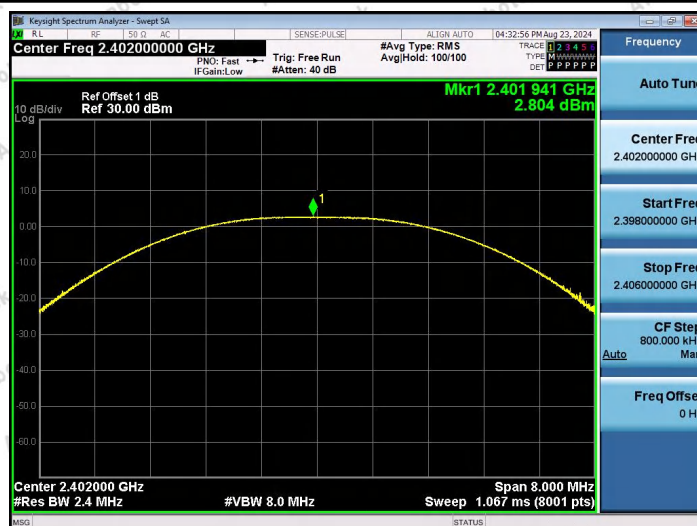
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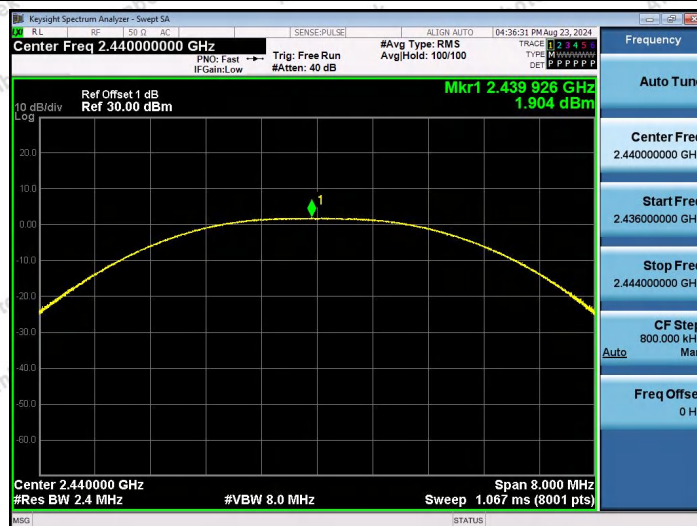


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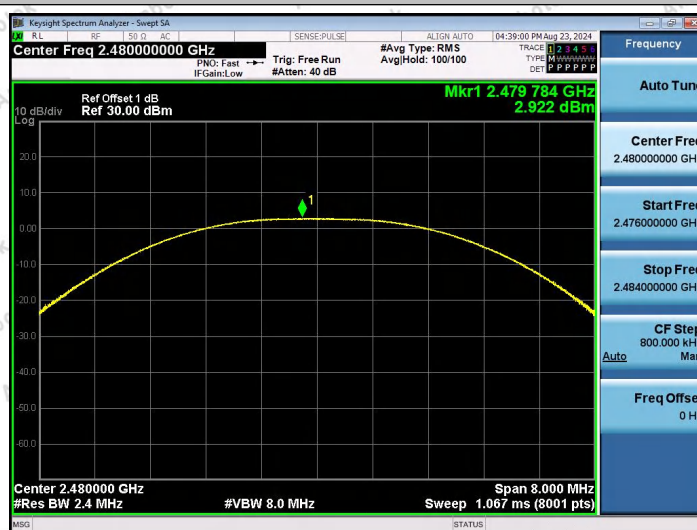




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



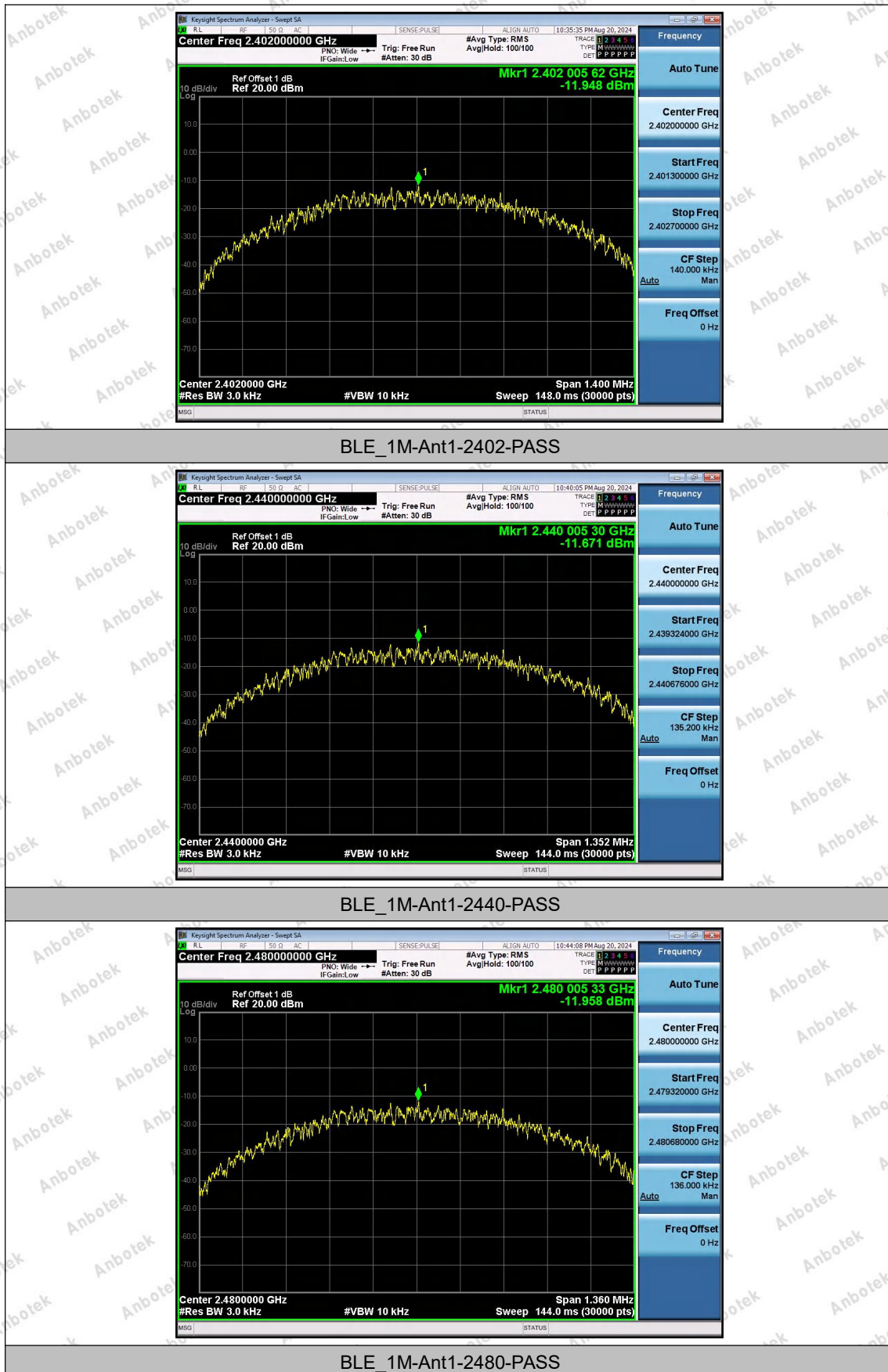
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.95	≤8.00	PASS
BLE_1M	Ant1	2440	-11.67	≤8.00	PASS
BLE_1M	Ant1	2480	-11.96	≤8.00	PASS
BLE_2M	Ant1	2402	-13.23	≤8.00	PASS
BLE_2M	Ant1	2440	-14.18	≤8.00	PASS
BLE_2M	Ant1	2480	-13.08	≤8.00	PASS



Test Graphs



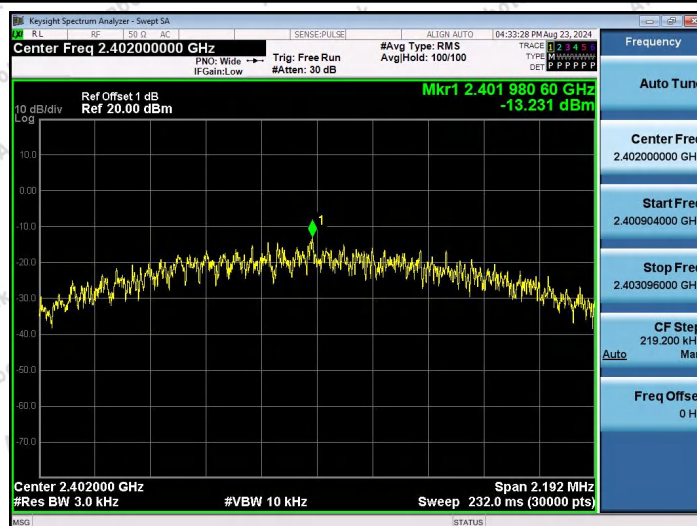
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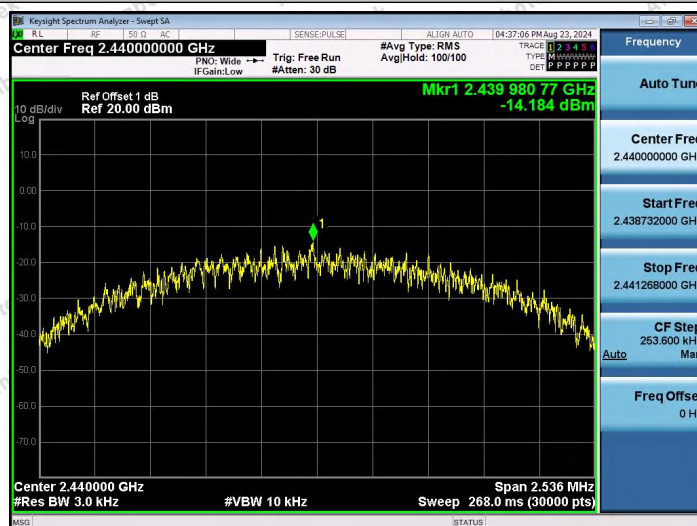


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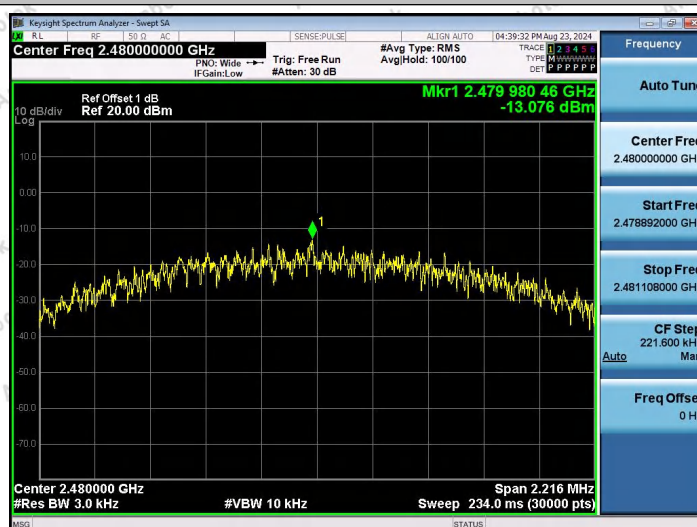




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



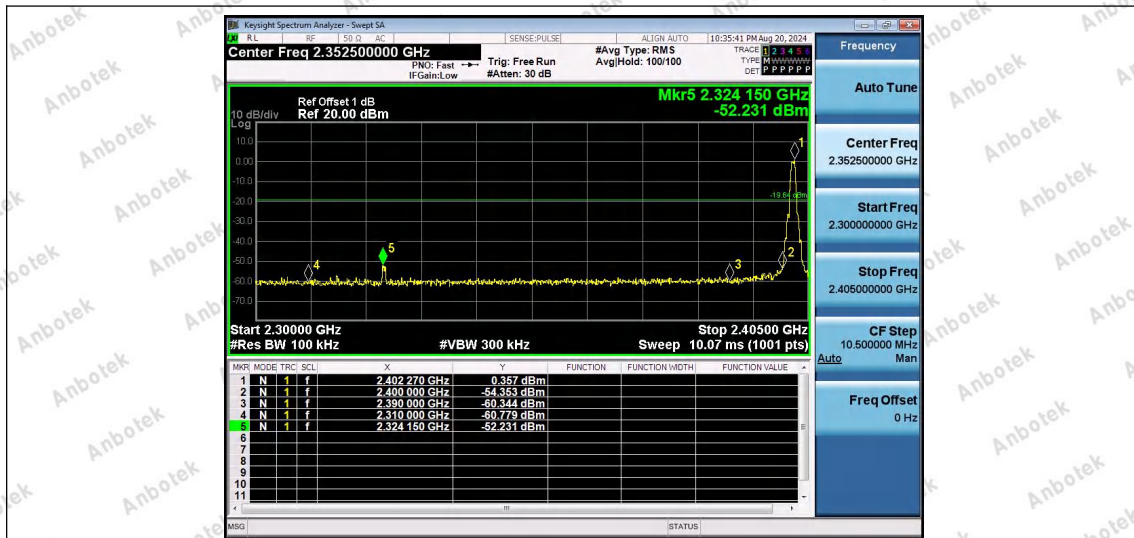
Appendix E: Band edge measurements

Test Result

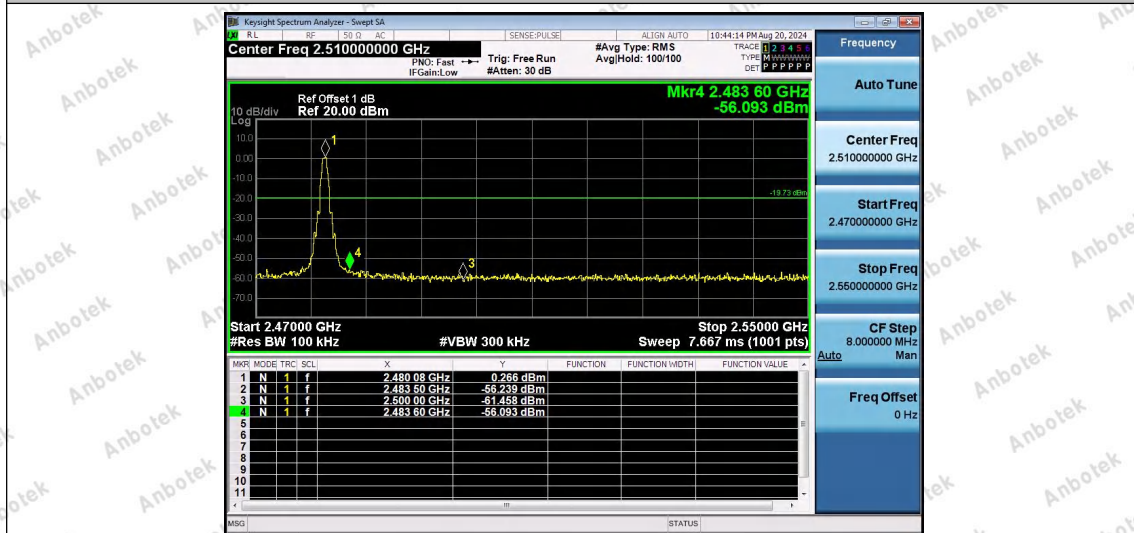
TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.36	-52.23	≤-19.64	PASS
BLE_1M	Ant1	High	2480	0.27	-56.09	≤-19.73	PASS
BLE_2M	Ant1	Low	2402	-0.13	-44.5	≤-20.13	PASS
BLE_2M	Ant1	High	2480	0.44	-55.98	≤-19.56	PASS



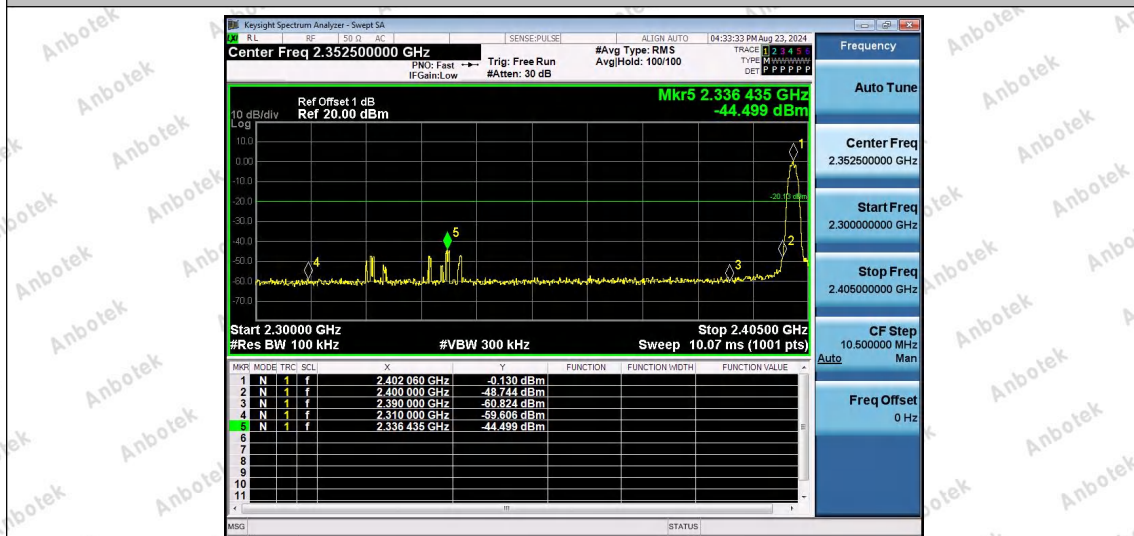
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS

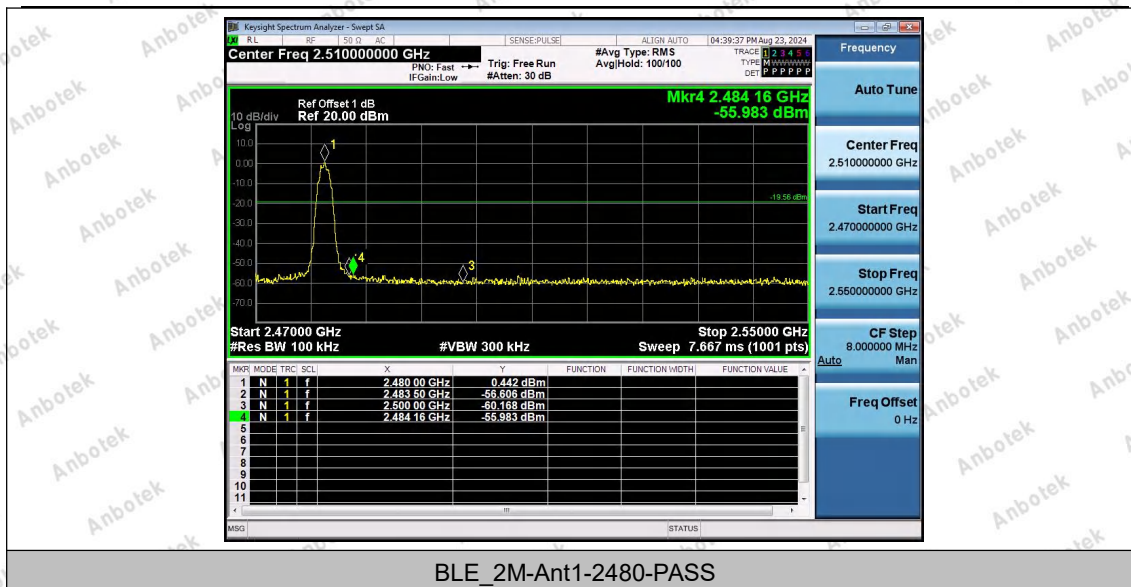
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BLE_2M-Ant1-2480-PASS



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	-0.41	-0.41	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.41	-69.02	≤-20.41	PASS
BLE_1M	Ant1	2402	1000~26500	-0.41	-50.9	≤-20.41	PASS
BLE_1M	Ant1	2440	0~Reference	-0.05	-0.05	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.05	-67.98	≤-20.05	PASS
BLE_1M	Ant1	2440	1000~26500	-0.05	-51.12	≤-20.05	PASS
BLE_1M	Ant1	2480	0~Reference	-0.05	-0.05	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.05	-68.4	≤-20.05	PASS
BLE_1M	Ant1	2480	1000~26500	-0.05	-53.94	≤-20.05	PASS
BLE_2M	Ant1	2402	0~Reference	0.30	0.30	---	PASS
BLE_2M	Ant1	2402	30~1000	0.30	-57.97	≤-19.7	PASS
BLE_2M	Ant1	2402	1000~26500	0.30	-37.99	≤-19.7	PASS
BLE_2M	Ant1	2440	0~Reference	-2.61	-2.61	---	PASS
BLE_2M	Ant1	2440	30~1000	-2.61	-57.95	≤-22.61	PASS
BLE_2M	Ant1	2440	1000~26500	-2.61	-45.95	≤-22.61	PASS
BLE_2M	Ant1	2480	0~Reference	-1.78	-1.78	---	PASS
BLE_2M	Ant1	2480	30~1000	-1.78	-57.25	≤-21.78	PASS
BLE_2M	Ant1	2480	1000~26500	-1.78	-52.39	≤-21.78	PASS



Test Graphs



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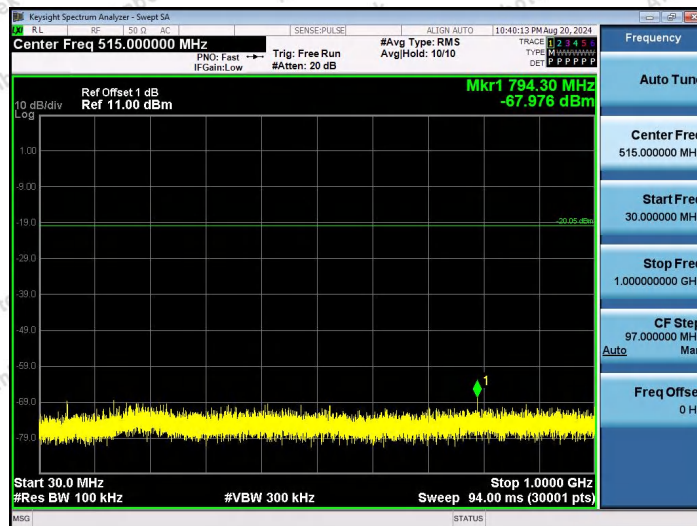


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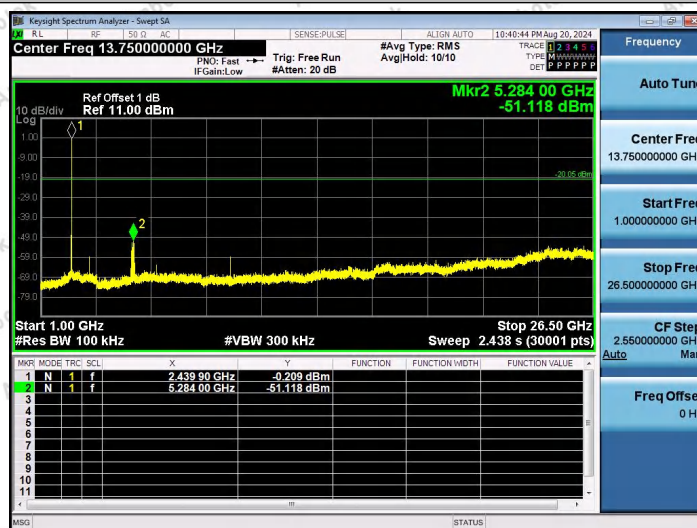




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

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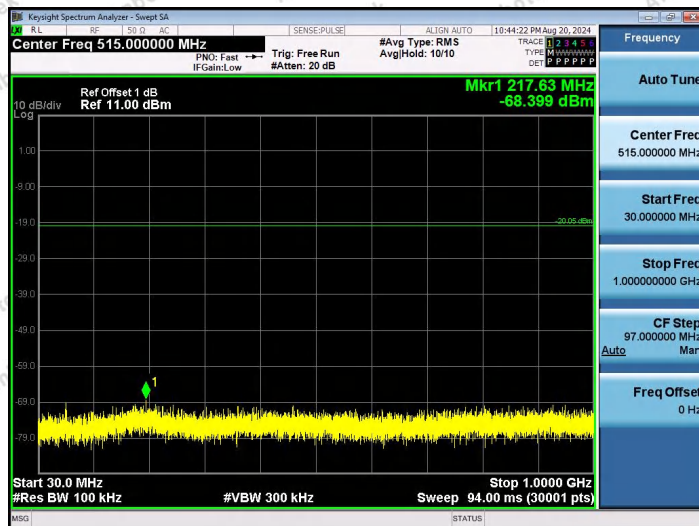


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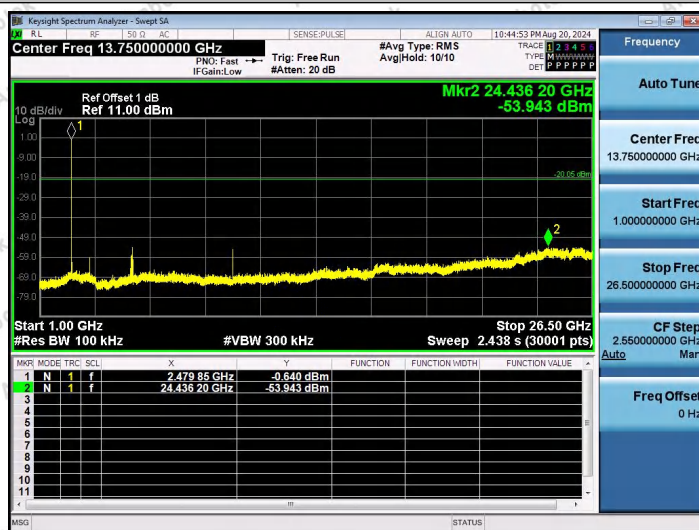




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS

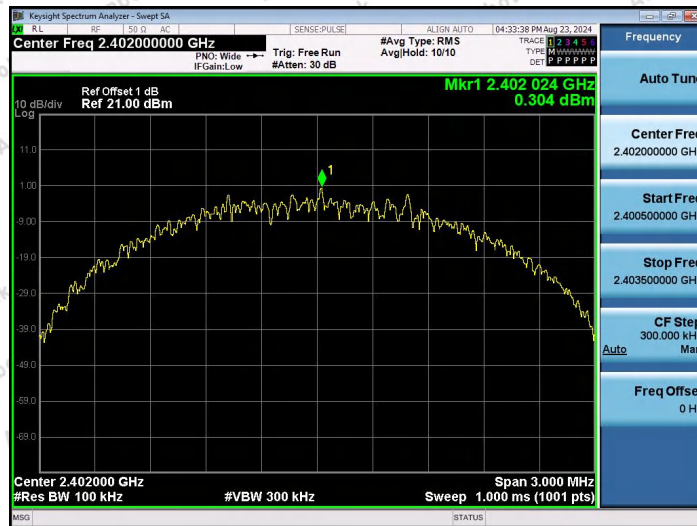
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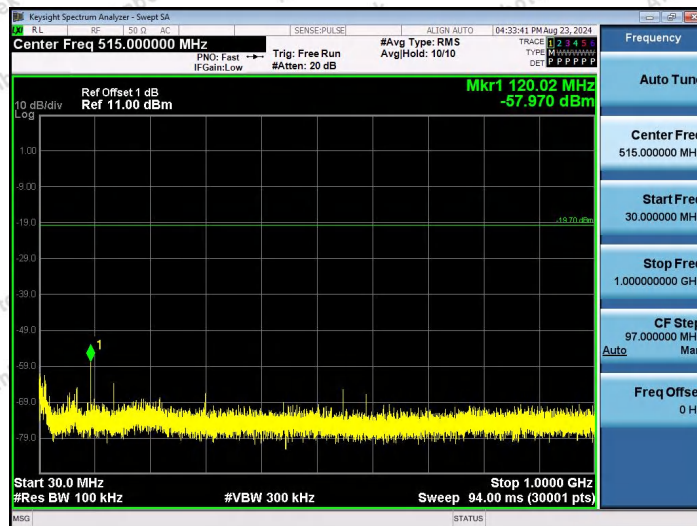


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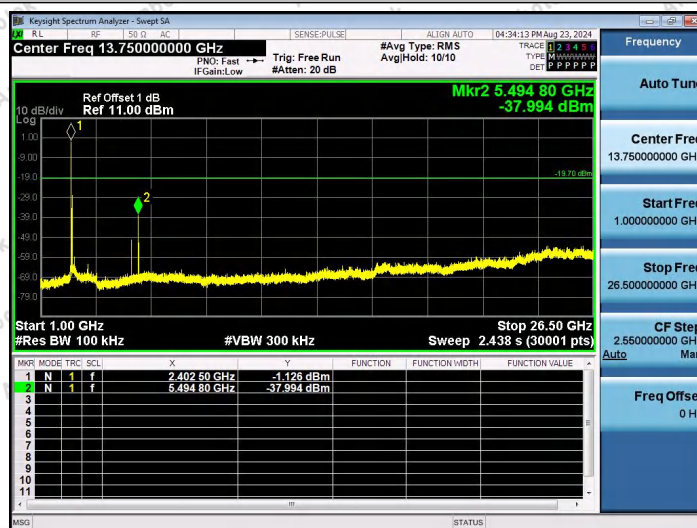




BLE_2M-Ant1-2402-0~Reference-PASS

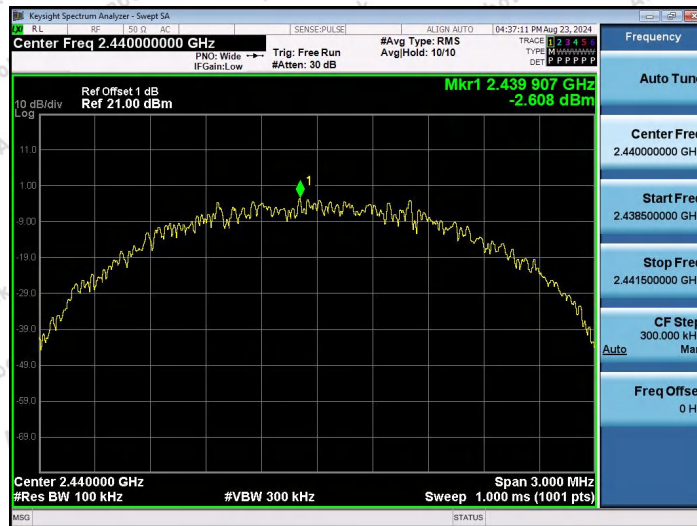


BLE_2M-Ant1-2402-30~1000-PASS

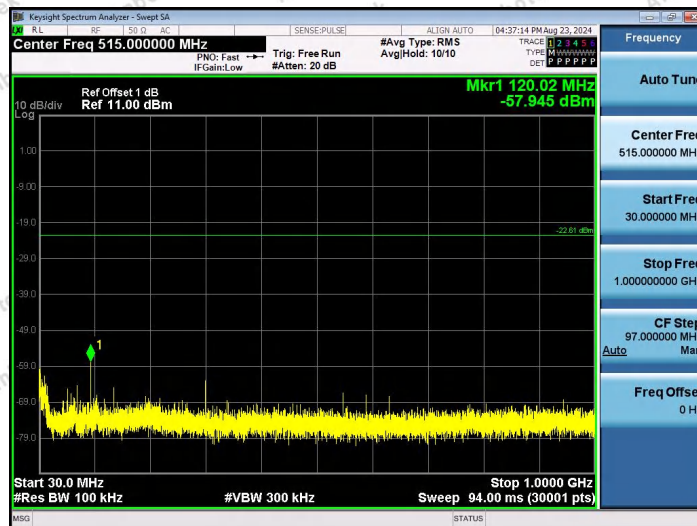


BLE_2M-Ant1-2402-1000~26500-PASS

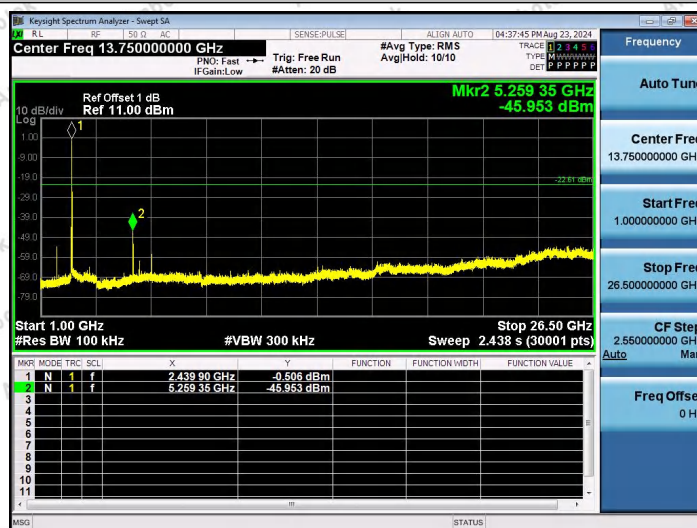




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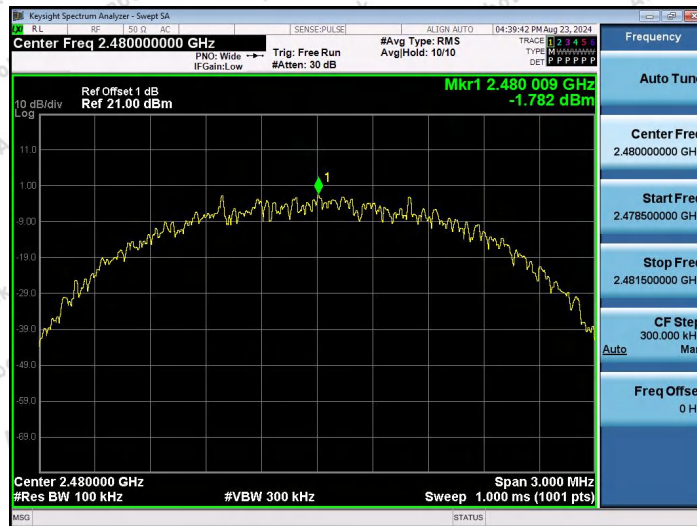


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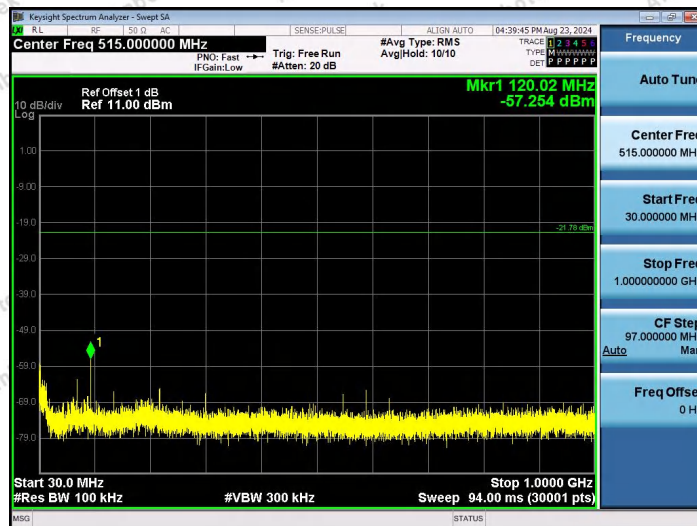


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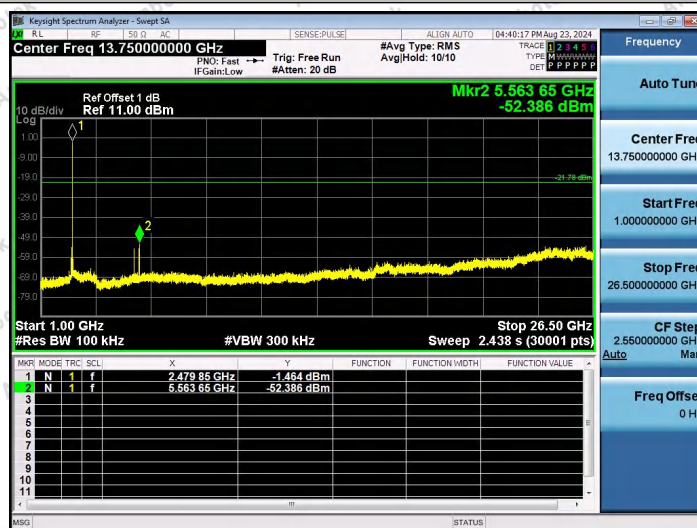




BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS



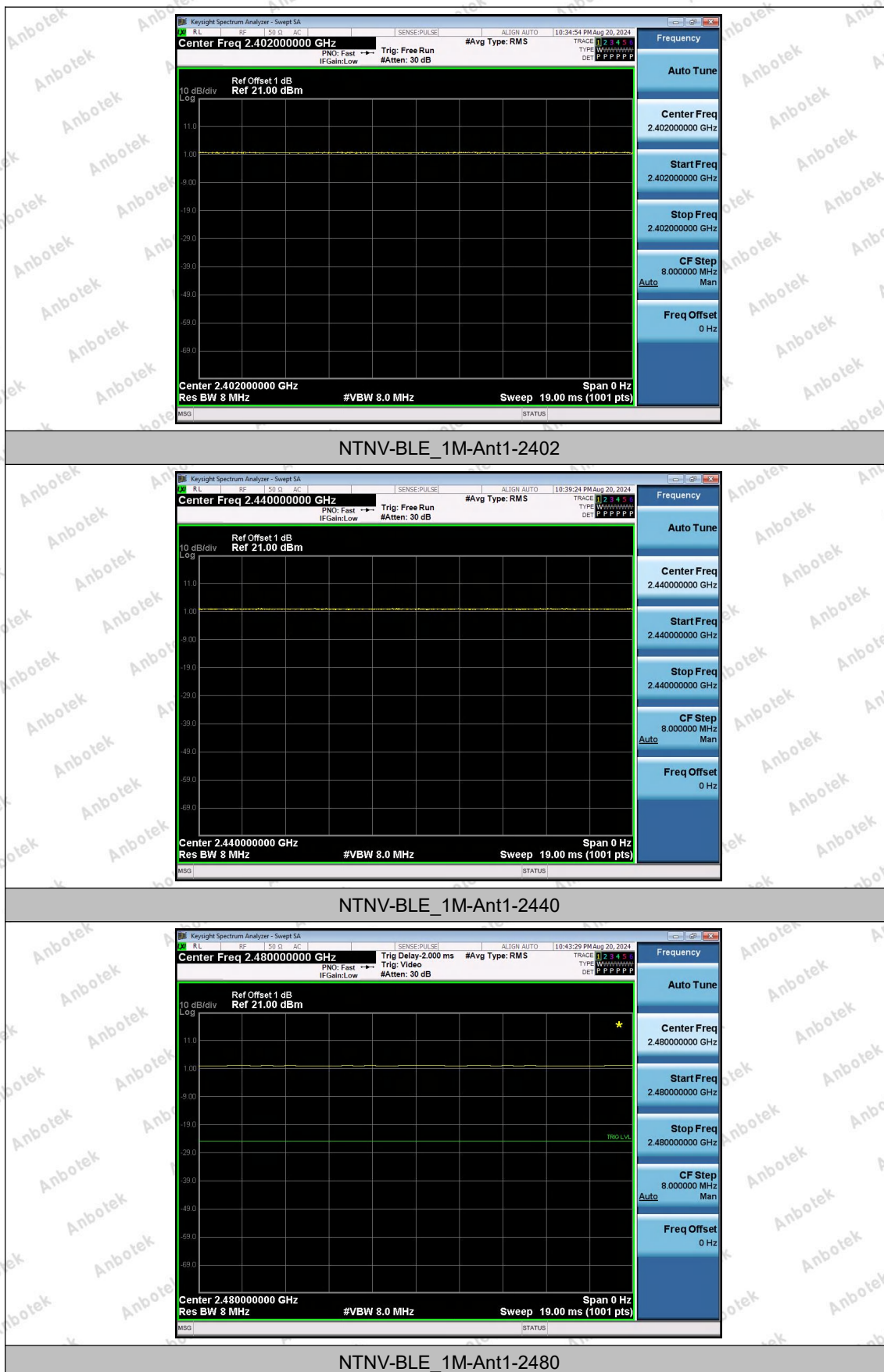
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.00	0.00	100	NaN
BLE_1M	Ant1	2440	0.00	0.00	100	NaN
BLE_1M	Ant1	2480	0.00	0.00	100	NaN
BLE_2M	Ant1	2402	19.00	19.00	100.00	0.00
BLE_2M	Ant1	2440	19.00	19.00	100.00	0.00
BLE_2M	Ant1	2480	19.00	19.00	100.00	0.00



Test Graphs



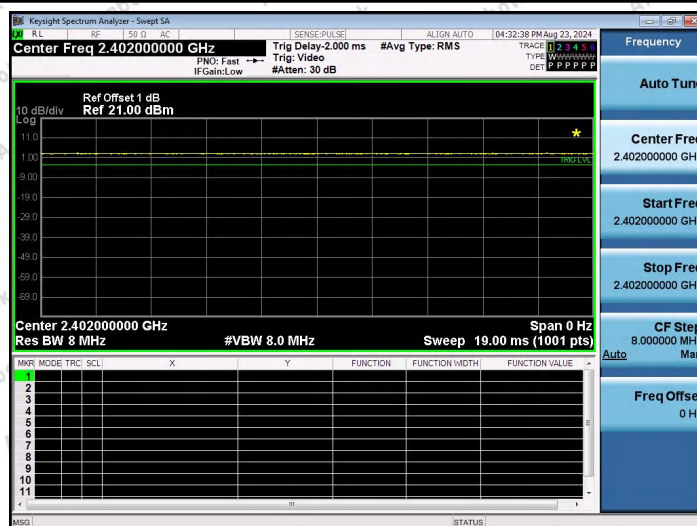
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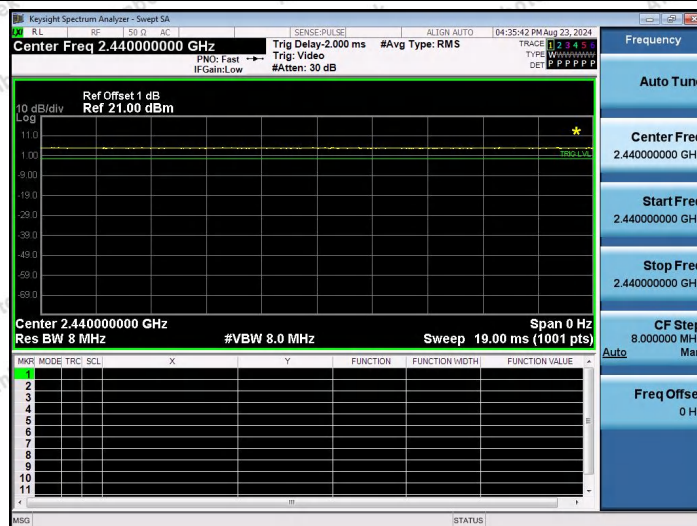


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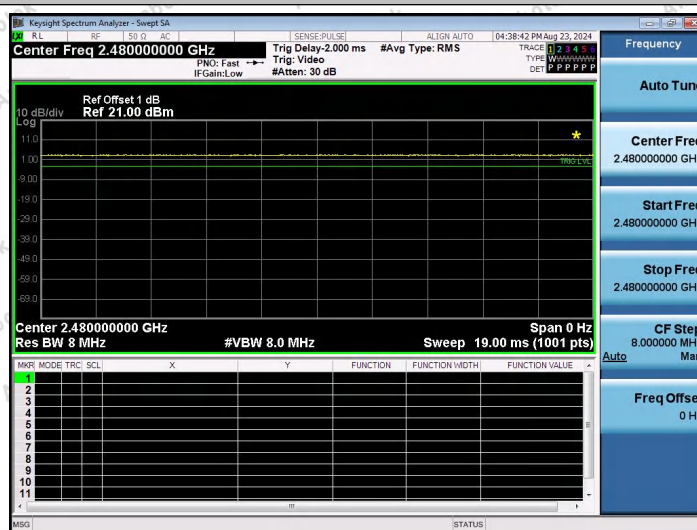




NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---END---

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