

Appendix Test Data

Report No.:	1812C40044612501	Test Sample No.:	1-2-2
Start Test Date:	2024.09.03	Finish Test Date:	2024.09.03
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	22.1℃	Relative Humidity:	48%
Pressure:	101kPa		

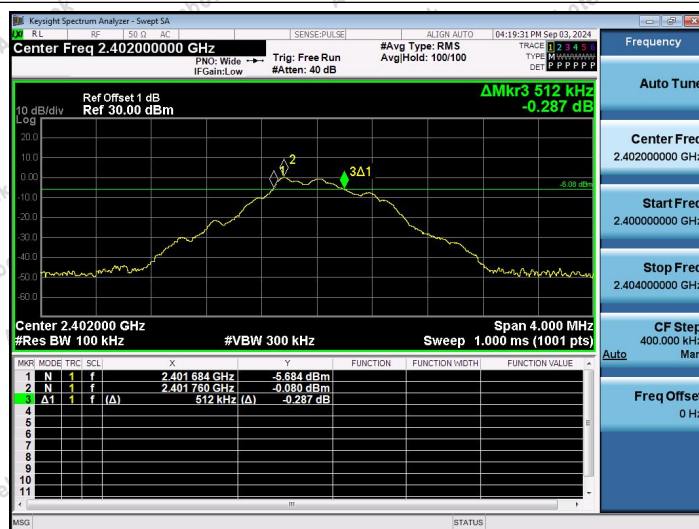
Appendix A: 6dB Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.512	2401.684	2402.196	0.5	PASS
BLE_1M	Ant1	2440	0.524	2439.676	2440.200	0.5	PASS
BLE_1M	Ant1	2480	0.532	2479.672	2480.204	0.5	PASS



Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



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BLE_1M-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	1.0960	2401.4321	2402.5281	---	---
BLE_1M	Ant1	2440	1.1609	2439.3909	2440.5518	---	---
BLE_1M	Ant1	2480	1.1609	2479.3871	2480.5480	---	---



Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



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BLE_1M-Ant1-2480

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	0.13	≤30	PASS
BLE_1M	Ant1	2440	0.26	≤30	PASS
BLE_1M	Ant1	2480	0.19	≤30	PASS

Test Graphs Peak



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS

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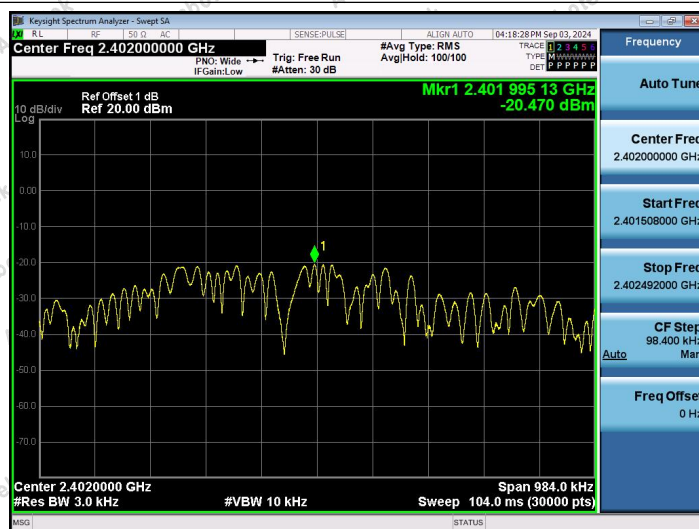
Appendix D: Maximum power spectral density

Test Result

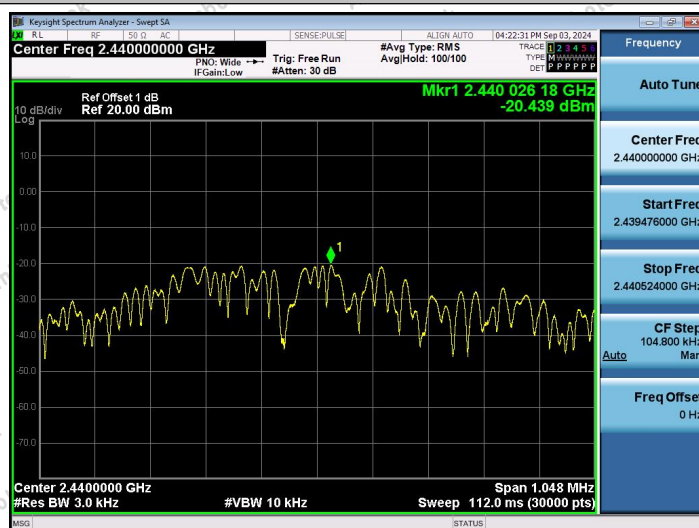
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-20.47	≤8.00	PASS
BLE_1M	Ant1	2440	-20.44	≤8.00	PASS
BLE_1M	Ant1	2480	-20.54	≤8.00	PASS



Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



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BLE_1M-Ant1-2480-PASS

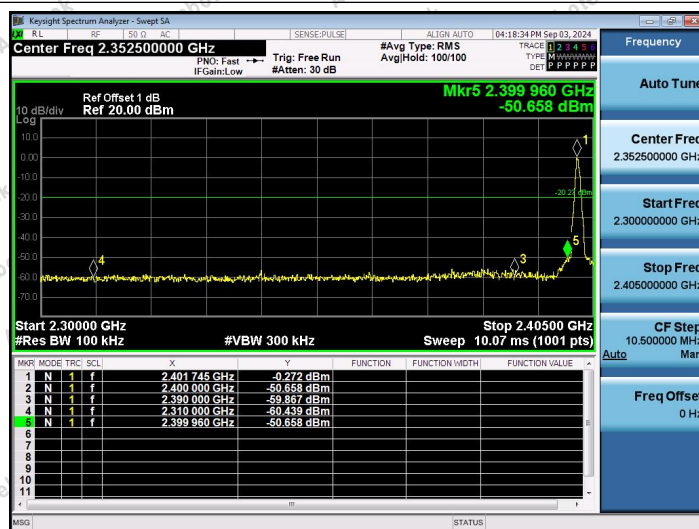
Appendix E: Band edge measurements

Test Result

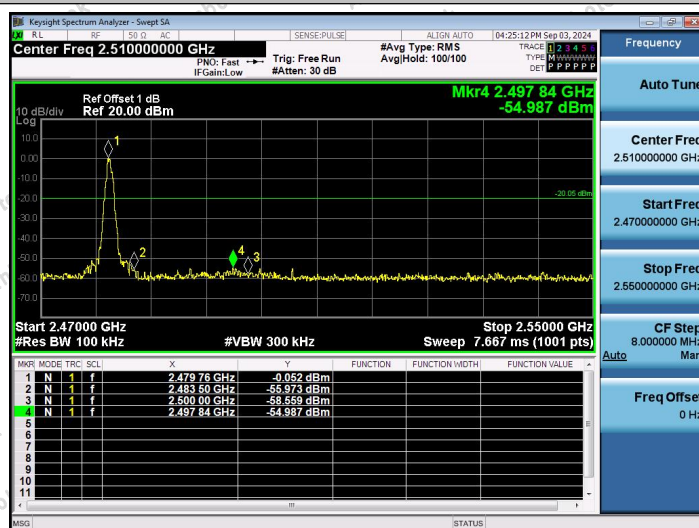
TestMod e	Antenn a	ChNam e	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-0.27	-50.66	≤-20.27	PASS
BLE_1M	Ant1	High	2480	-0.05	-54.99	≤-20.05	PASS



Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



Appendix F: Conducted Spurious Emission

Test Result

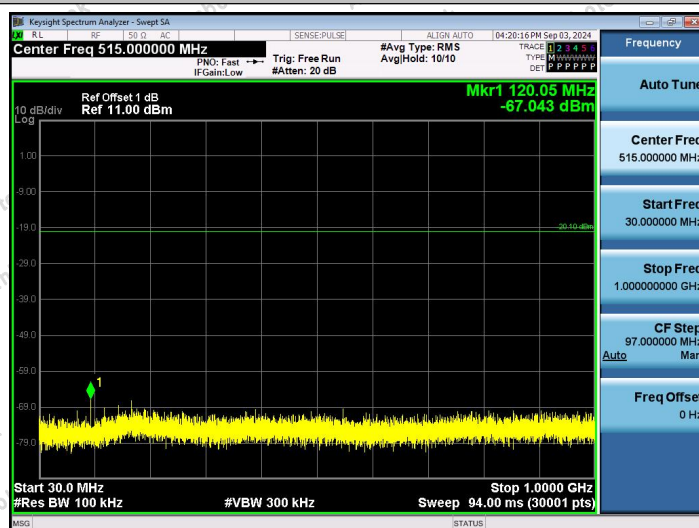
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-0.10	-0.10	---	PASS
BLE_1M	Ant1	2402	30~1000	-0.10	-67.04	≤-20.1	PASS
BLE_1M	Ant1	2402	1000~26500	-0.10	-43.7	≤-20.1	PASS
BLE_1M	Ant1	2440	0~Reference	0.01	0.01	---	PASS
BLE_1M	Ant1	2440	30~1000	0.01	-66.47	≤-19.99	PASS
BLE_1M	Ant1	2440	1000~26500	0.01	-41.83	≤-19.99	PASS
BLE_1M	Ant1	2480	0~Reference	0.00	0.00	---	PASS
BLE_1M	Ant1	2480	30~1000	0.00	-65.64	≤-20	PASS
BLE_1M	Ant1	2480	1000~26500	0.00	-43.82	≤-20	PASS



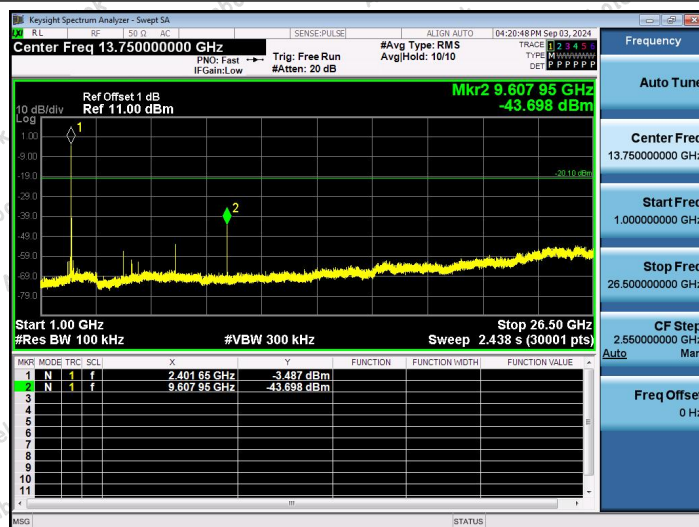
Test Graphs



BLE_1M-Ant1-2402-0~Reference-PASS



BLE_1M-Ant1-2402-30~1000-PASS



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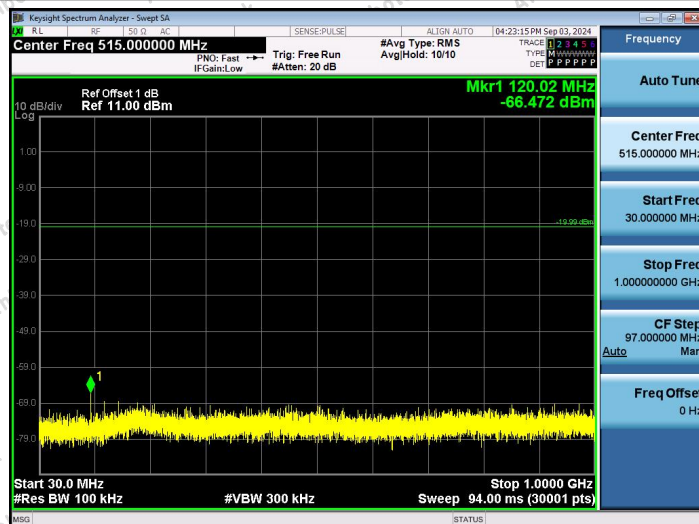
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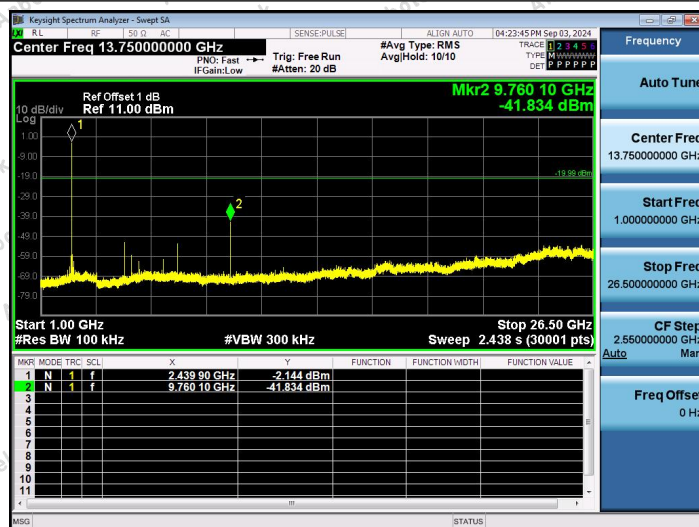
BLE_1M-Ant1-2402-1000~26500-PASS



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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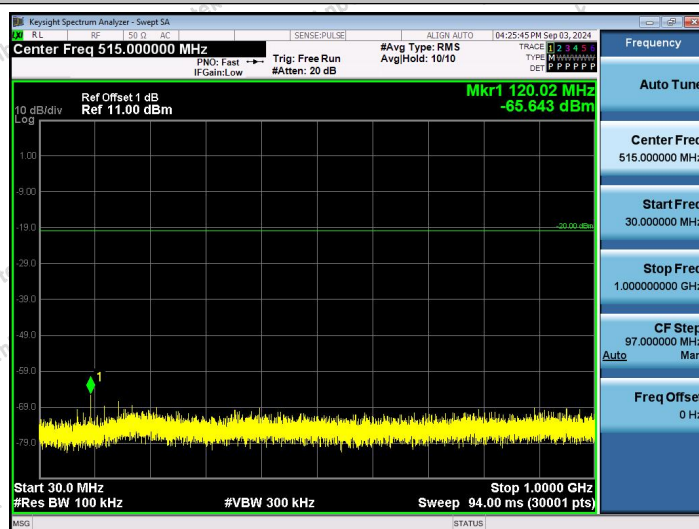


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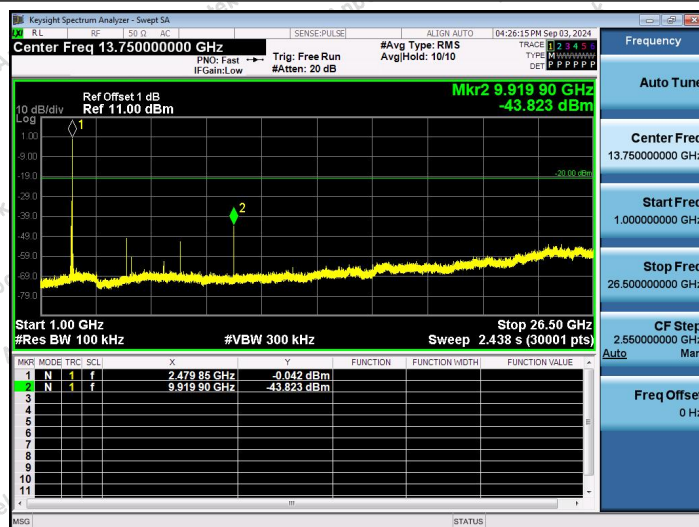




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS

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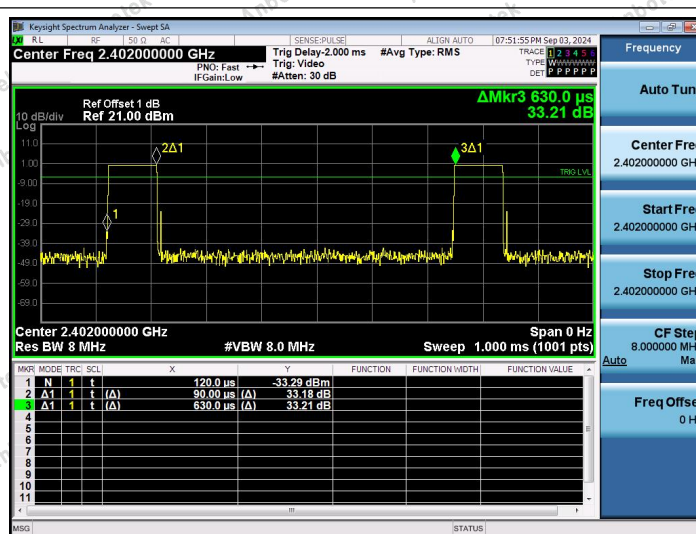


Appendix G: Duty Cycle

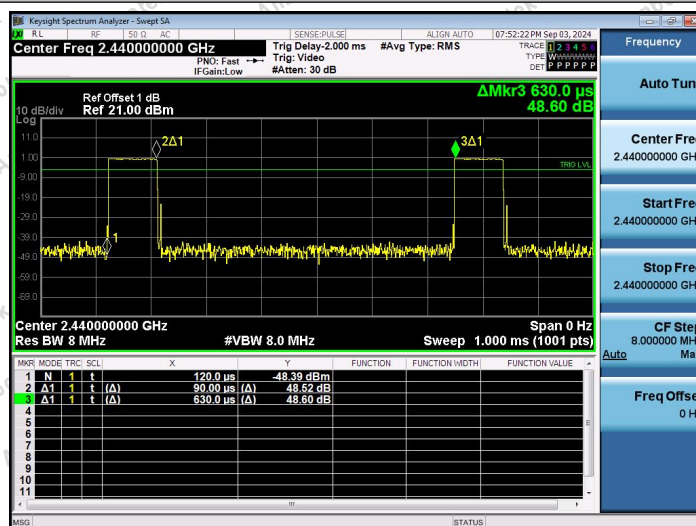
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.09	0.63	14.29	8.45
BLE_1M	Ant1	2440	0.09	0.63	14.29	8.45
BLE_1M	Ant1	2480	0.09	0.63	14.29	8.45

Test Graphs

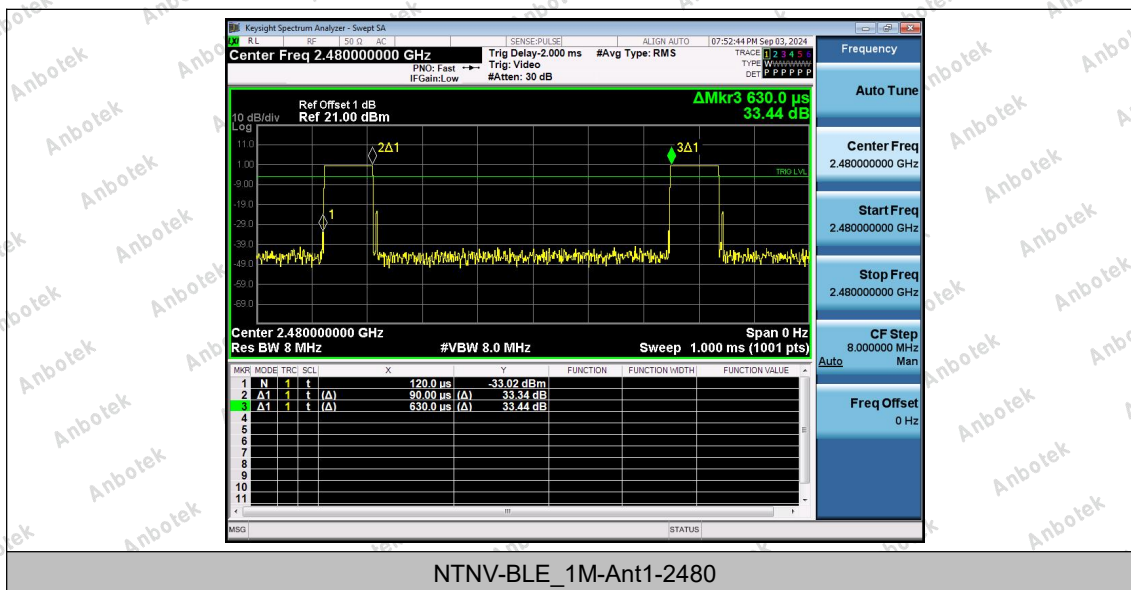


NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440





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