Appendix Test Data

Report No.:	1812C50614412501-01	Test Sample No.:	1-2-2
Start Test Date:	2025-12-19	Finish Test Date:	2025-12-19
Test Engineer:	Alex Reng	Auditor:	Justin Feng
Temperature:	25.8℃	Relative Humidity:	45%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.684	2402.348	0.5	PASS
BLE_1M	Ant1	2440	0.696	2439.664	2440.360	0.5	PASS
BLE_1M	Ant1	2480	0.672	2479.680	2480.352	0.5	PASS
BLE_2M	Ant1	2402	1.132	2401.452	2402.584	0.5	PASS
BLE_2M	Ant1	2440	1.156	2439.452	2440.608	0.5	PASS
BLE_2M	Ant1	2480	1.248	2479.380	2480.628	0.5	PASS

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Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS

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BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS

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BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

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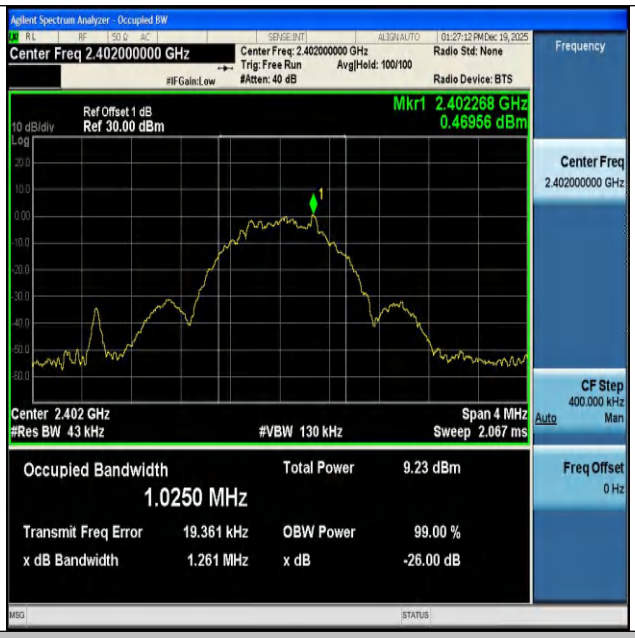
Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0250	2401.5069	2402.5319	---	---
BLE_1M	Ant1	2440	1.0302	2439.5023	2440.5325	---	---
BLE_1M	Ant1	2480	1.0278	2479.5038	2480.5316	---	---
BLE_2M	Ant1	2402	2.0632	2400.9977	2403.0609	---	---
BLE_2M	Ant1	2440	2.0669	2438.9973	2441.0642	---	---
BLE_2M	Ant1	2480	2.0655	2478.9982	2481.0637	---	---

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Test Graphs

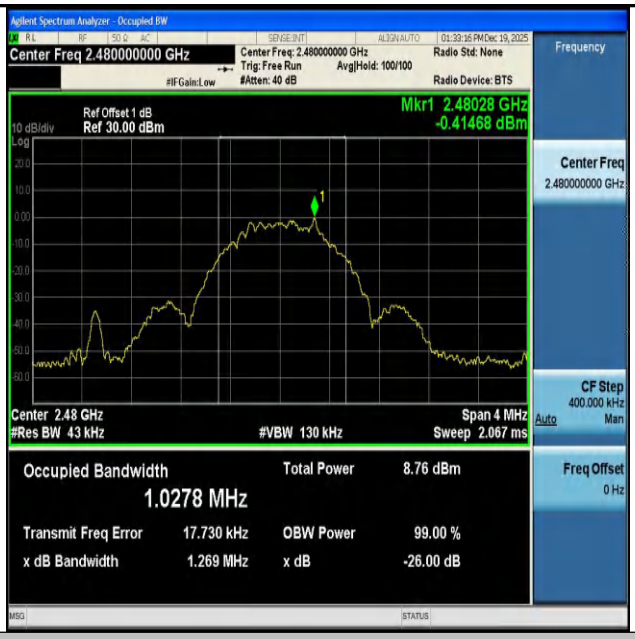


BLE_1M-Ant1-2402



BLE_1M-Ant1-2440

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BLE_1M-Ant1-2480



BLE_2M-Ant1-2402

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BLE_2M-Ant1-2440



BLE_2M-Ant1-2480

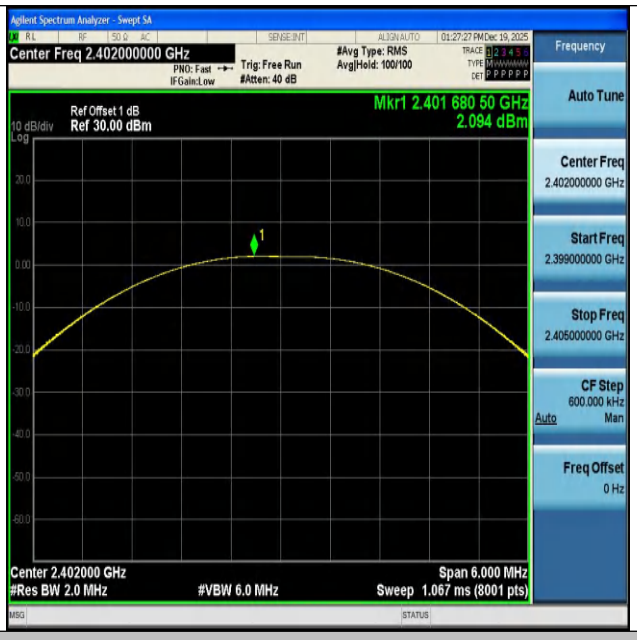
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Appendix C: Maximum conducted output power

Test Result Peak

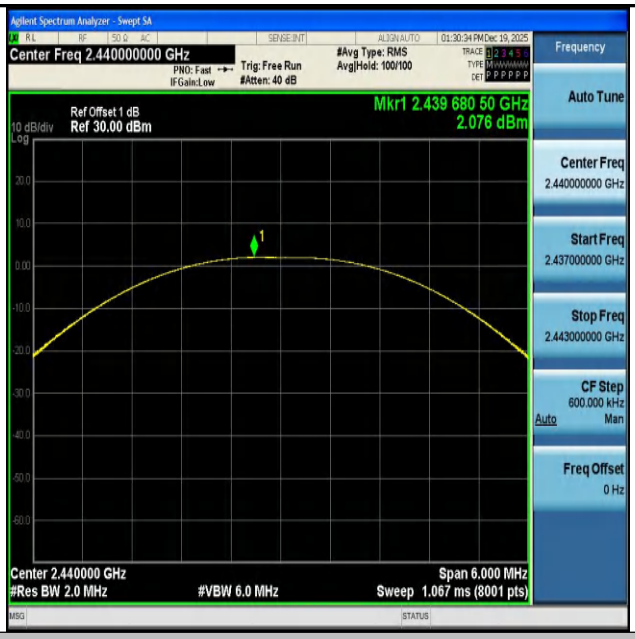
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.09	≤30	PASS
BLE_1M	Ant1	2440	2.08	≤30	PASS
BLE_1M	Ant1	2480	1.87	≤30	PASS
BLE_2M	Ant1	2402	2.14	≤30	PASS
BLE_2M	Ant1	2440	2.15	≤30	PASS
BLE_2M	Ant1	2480	2.07	≤30	PASS

Test Graphs Peak

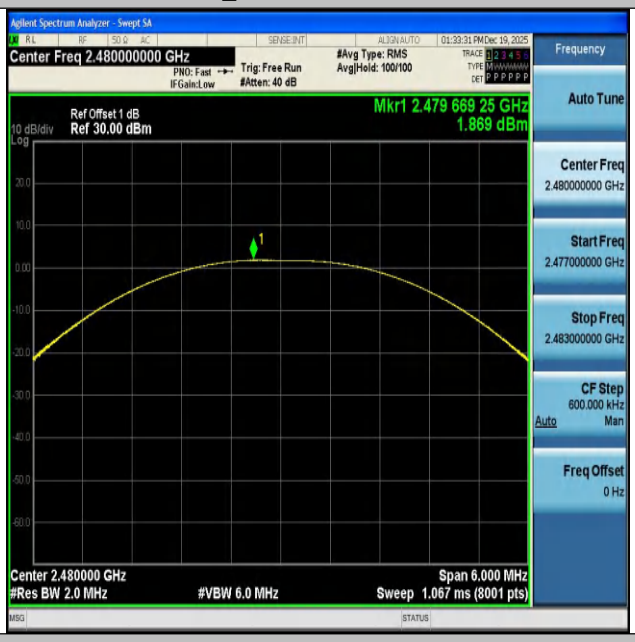


BLE_1M-Ant1-2402-PASS

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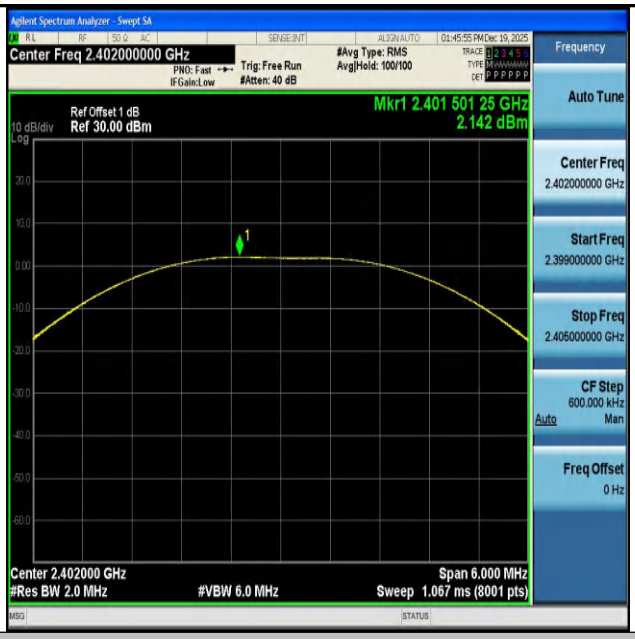


BLE_1M-Ant1-2440-PASS

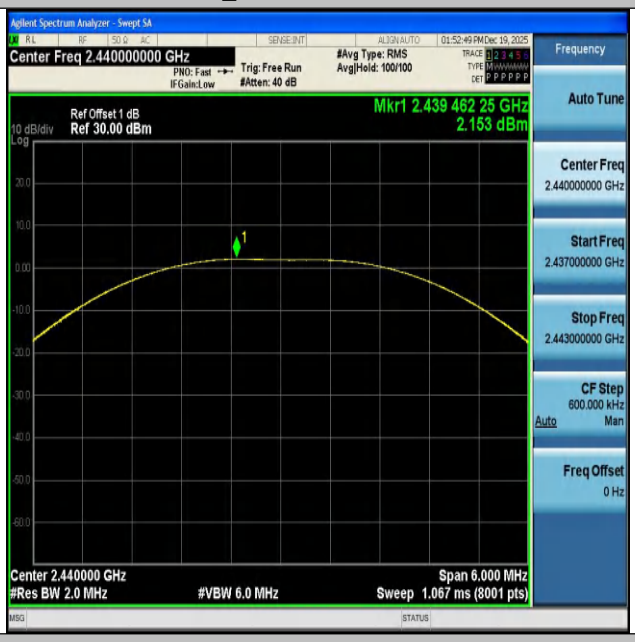


BLE_1M-Ant1-2480-PASS

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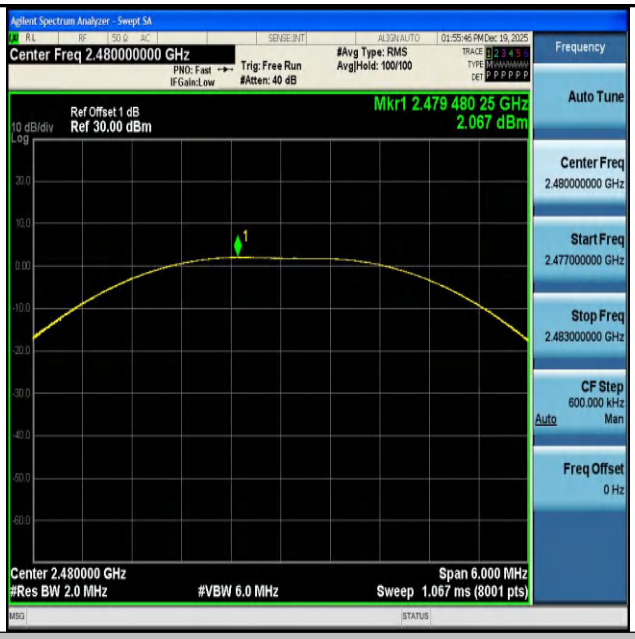


BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS

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BLE_2M-Ant1-2480-PASS

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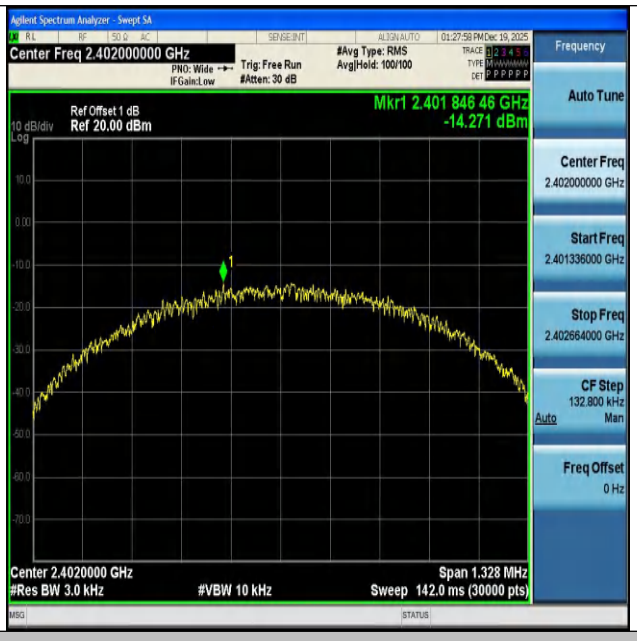
Appendix D: Maximum power spectral density

Test Result

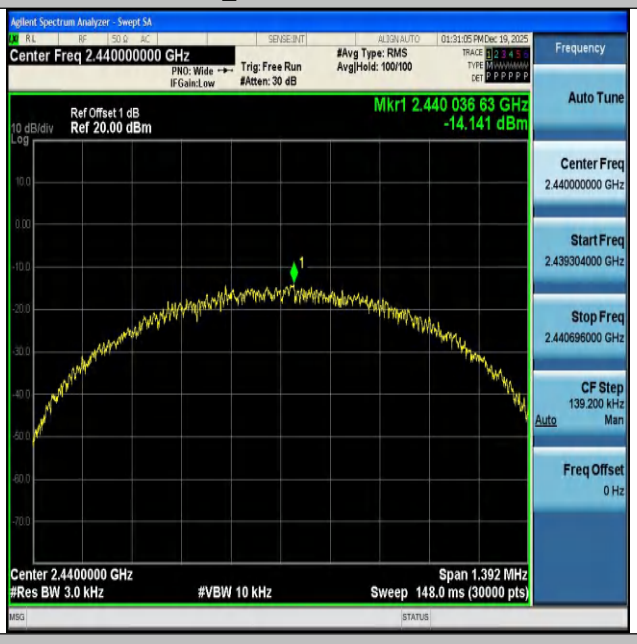
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.27	≤8.00	PASS
BLE_1M	Ant1	2440	-14.14	≤8.00	PASS
BLE_1M	Ant1	2480	-14.31	≤8.00	PASS
BLE_2M	Ant1	2402	-16.54	≤8.00	PASS
BLE_2M	Ant1	2440	-16.33	≤8.00	PASS
BLE_2M	Ant1	2480	-16.39	≤8.00	PASS

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Test Graphs

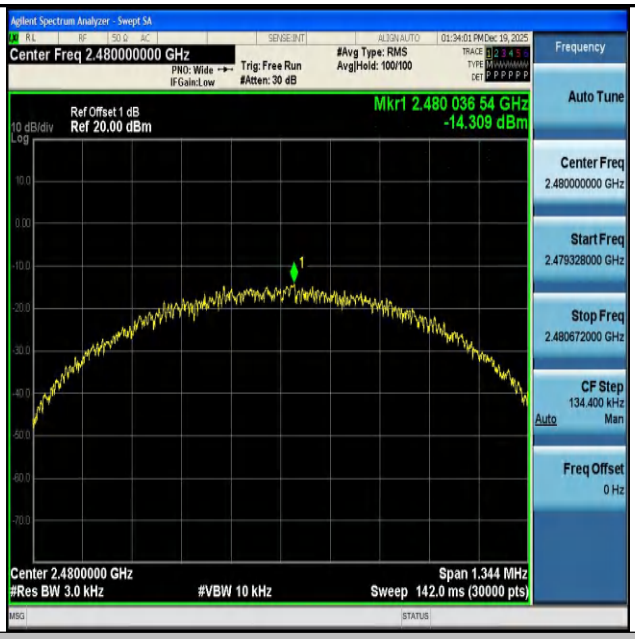


BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS

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BLE_1M-Ant1-2480-PASS

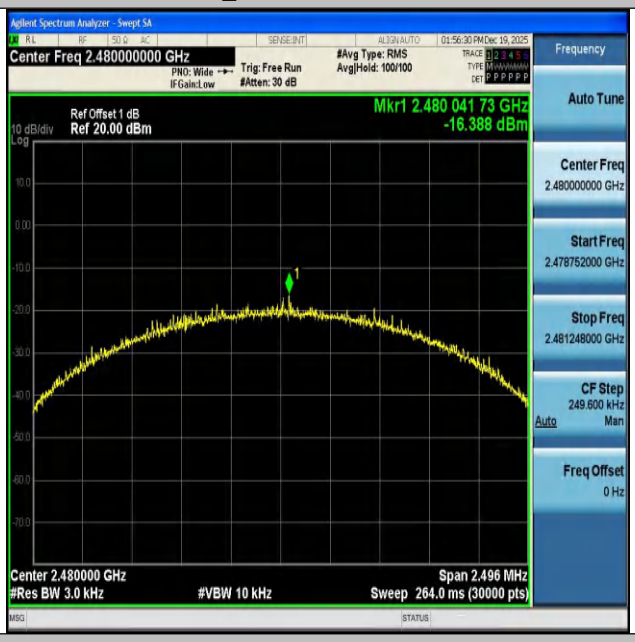


BLE_2M-Ant1-2402-PASS

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BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

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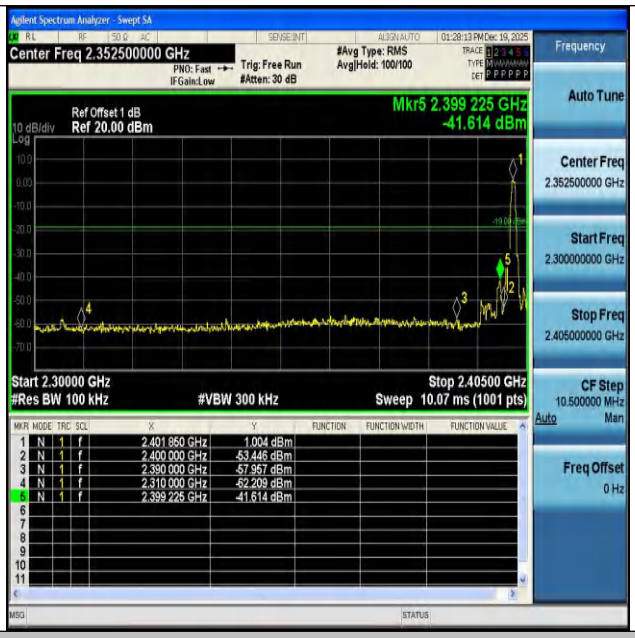
Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.00	-41.61	≤-19	PASS
BLE_1M	Ant1	High	2480	1.57	-45.98	≤-18.43	PASS
BLE_2M	Ant1	Low	2402	0.98	-32.6	≤-19.03	PASS
BLE_2M	Ant1	High	2480	-0.01	-48.34	≤-20.01	PASS

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Test Graphs

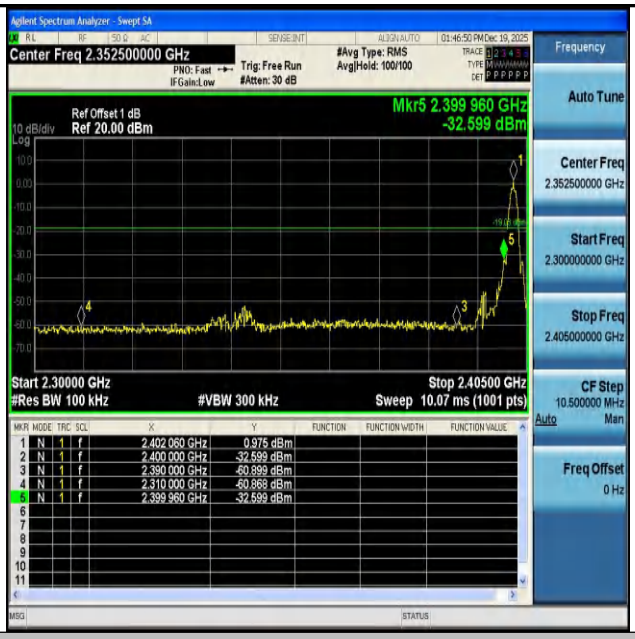


BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS

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BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2480-PASS

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Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	1.02	1.02	---	PASS
BLE_1M	Ant1	2402	30~1000	1.02	-59.7	≤-18.98	PASS
BLE_1M	Ant1	2402	1000~26500	1.02	-46.44	≤-18.98	PASS
BLE_1M	Ant1	2440	0~Reference	1.45	1.45	---	PASS
BLE_1M	Ant1	2440	30~1000	1.45	-49.13	≤-18.55	PASS
BLE_1M	Ant1	2440	1000~26500	1.45	-46.13	≤-18.55	PASS
BLE_1M	Ant1	2480	0~Reference	1.38	1.38	---	PASS
BLE_1M	Ant1	2480	30~1000	1.38	-59.88	≤-18.62	PASS
BLE_1M	Ant1	2480	1000~26500	1.38	-46.46	≤-18.62	PASS
BLE_2M	Ant1	2402	0~Reference	0.72	0.72	---	PASS
BLE_2M	Ant1	2402	30~1000	0.72	-40.47	≤-19.28	PASS
BLE_2M	Ant1	2402	1000~26500	0.72	-46.49	≤-19.28	PASS
BLE_2M	Ant1	2440	0~Reference	0.97	0.97	---	PASS
BLE_2M	Ant1	2440	30~1000	0.97	-59.71	≤-19.03	PASS
BLE_2M	Ant1	2440	1000~26500	0.97	-45.35	≤-19.03	PASS
BLE_2M	Ant1	2480	0~Reference	0.89	0.89	---	PASS
BLE_2M	Ant1	2480	30~1000	0.89	-59.14	≤-19.11	PASS
BLE_2M	Ant1	2480	1000~26500	0.89	-45.55	≤-19.11	PASS

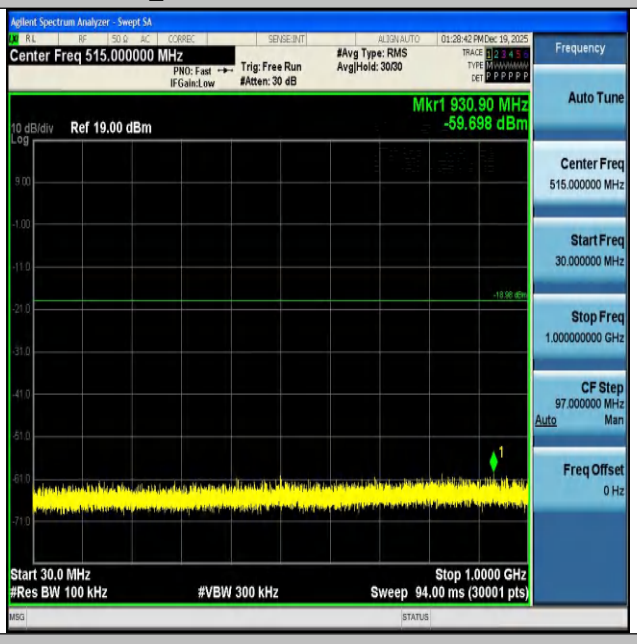
Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable loss have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

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Test Graphs

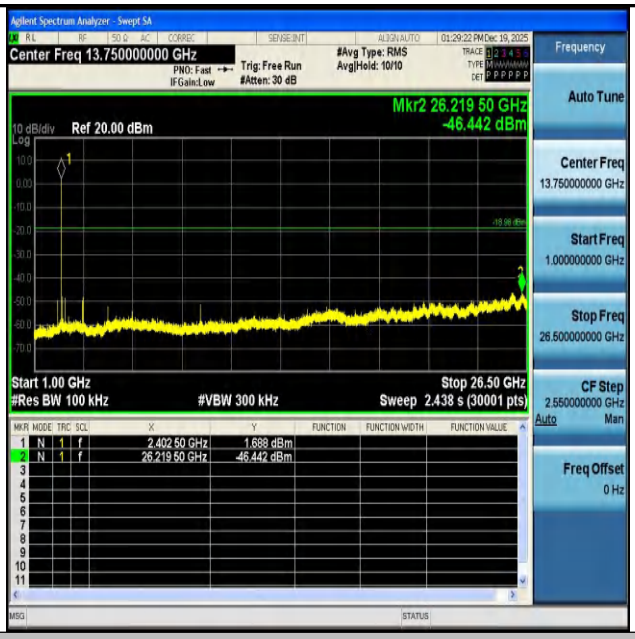


BLE_1M-Ant1-2402-0~Reference-PASS



BLE_1M-Ant1-2402-30~1000-PASS

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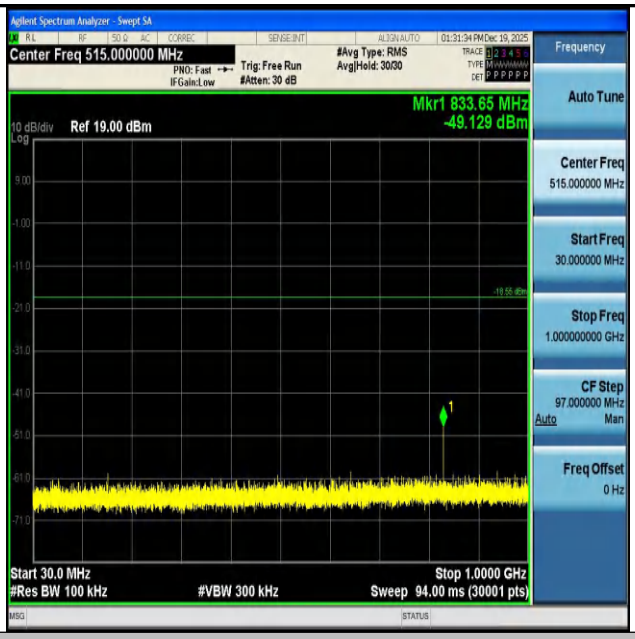
BLE_1M-Ant1-2402-1000~26500-PASS



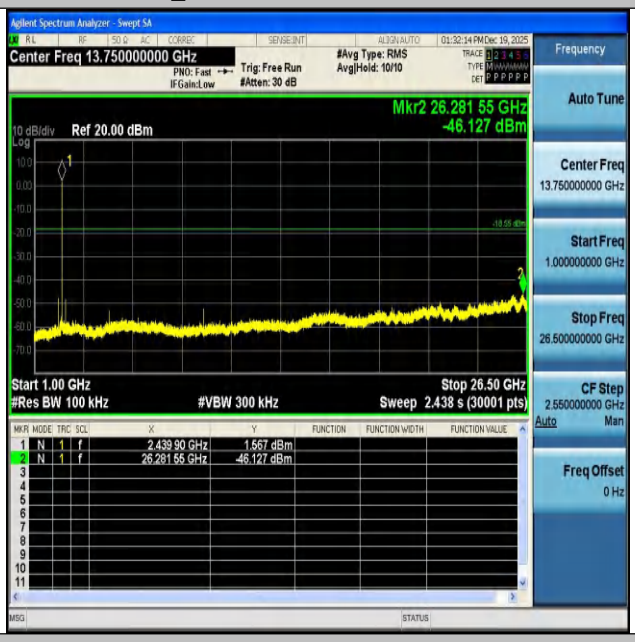
BLE_1M-Ant1-2440-0~Reference-PASS

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BLE_1M-Ant1-2440-30~1000-PASS



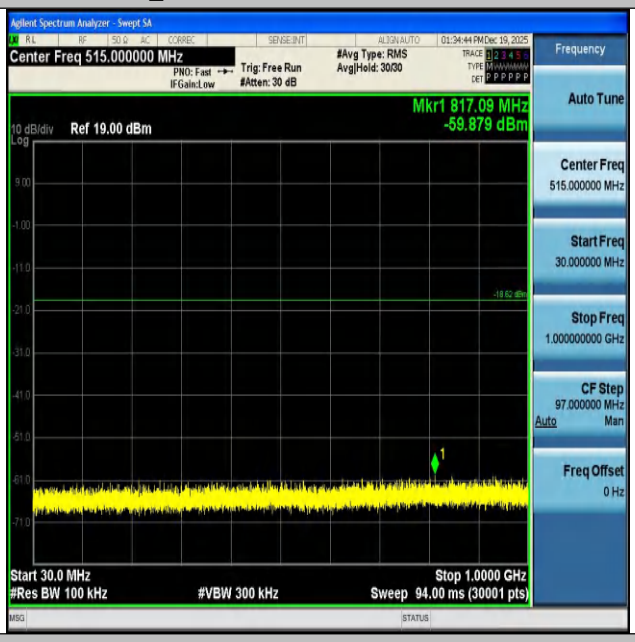
BLE_1M-Ant1-2440-1000~26500-PASS

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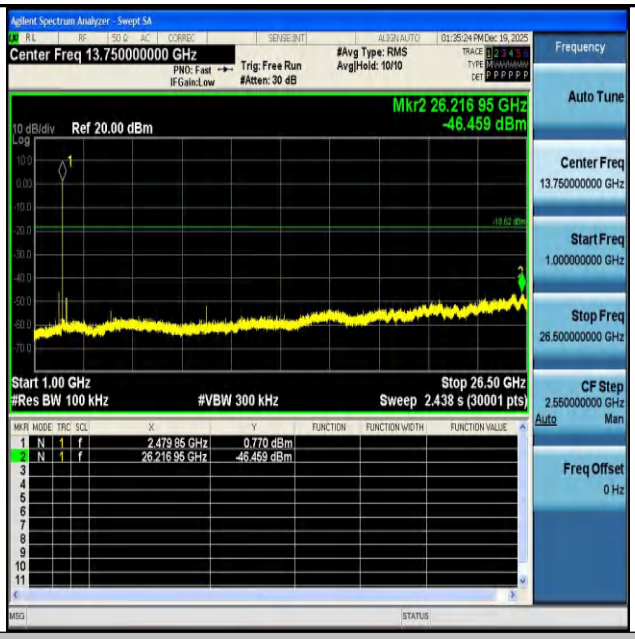
BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS

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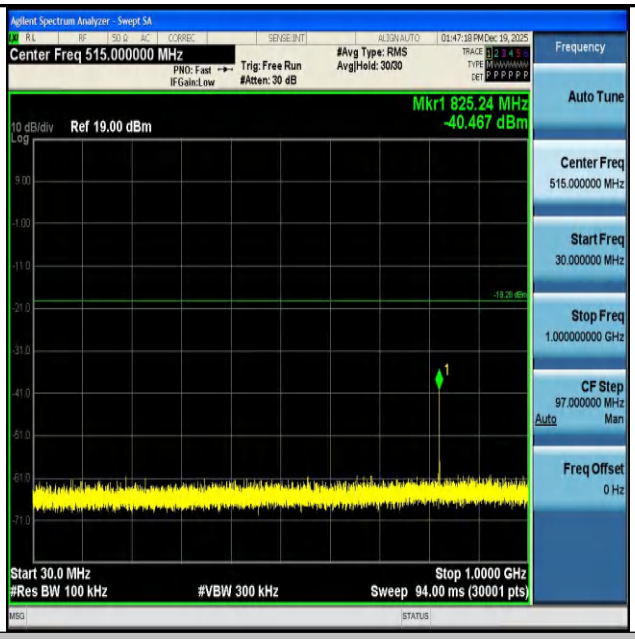
BLE_1M-Ant1-2480-1000~26500-PASS



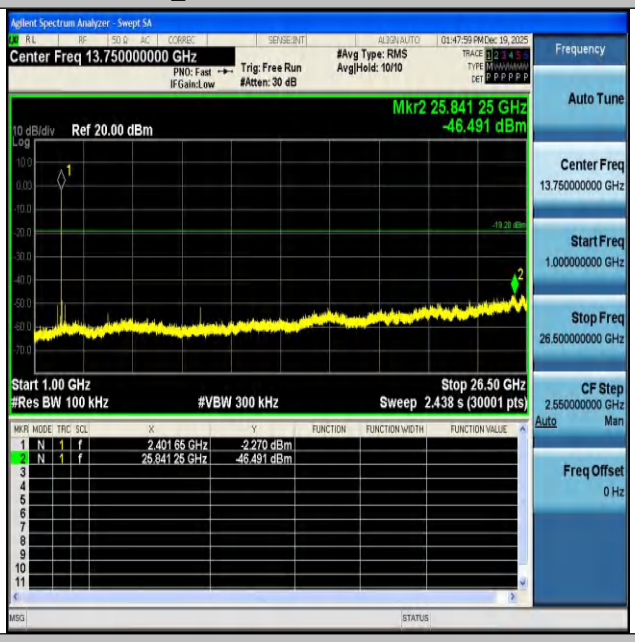
BLE_2M-Ant1-2402-0~Reference-PASS

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BLE_2M-Ant1-2402-30~1000-PASS

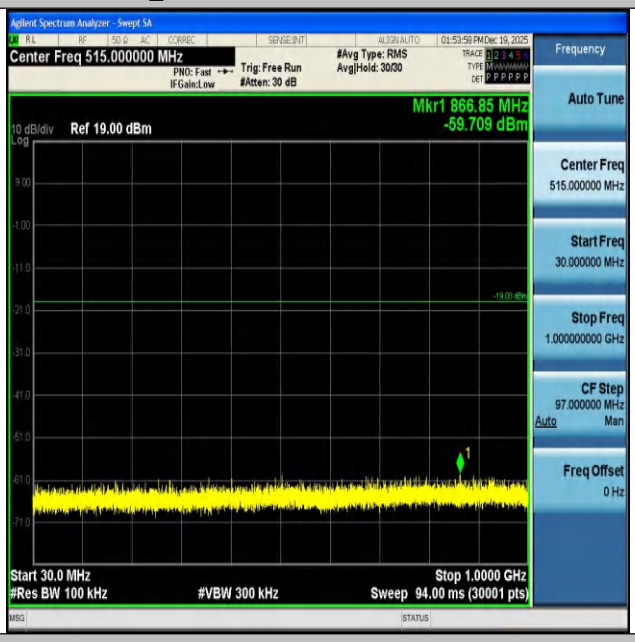


BLE_2M-Ant1-2402-1000~26500-PASS

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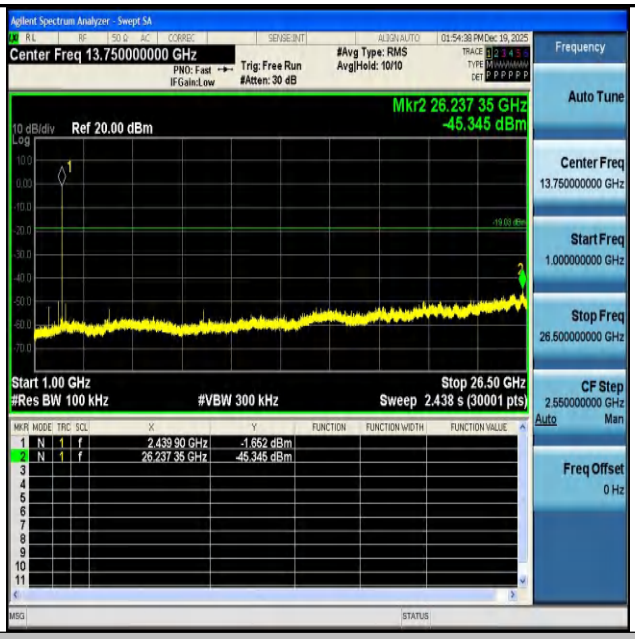
BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-PASS

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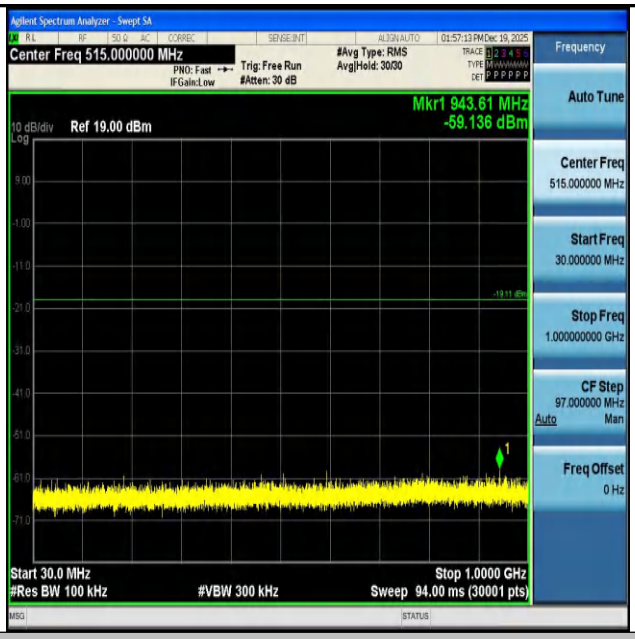


BLE_2M-Ant1-2440-1000~26500-PASS

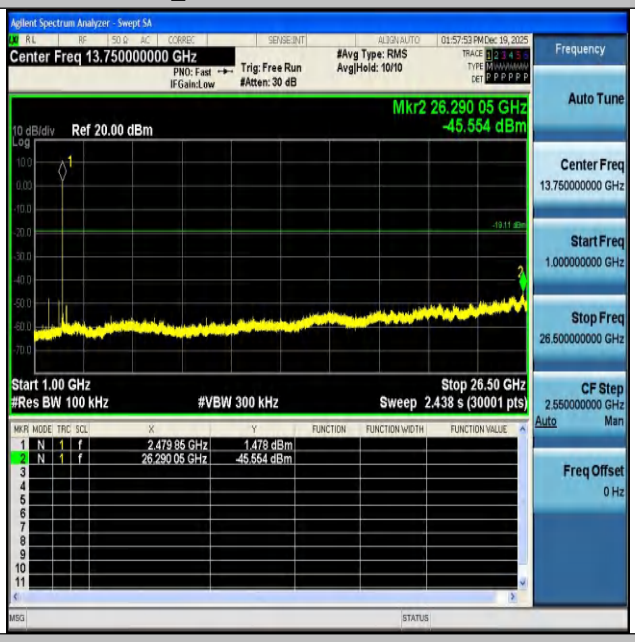


BLE_2M-Ant1-2480-0~Reference-PASS

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BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS

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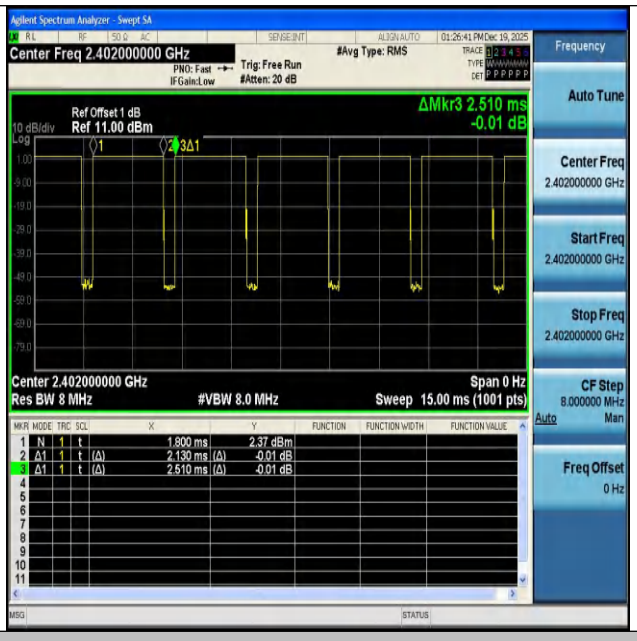
Appendix G: Duty Cycle

Test Result

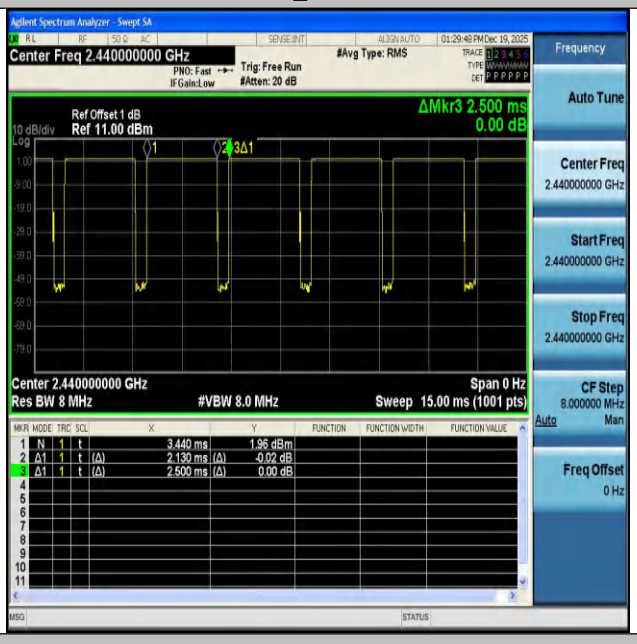
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.13	2.51	84.86	0.71
BLE_1M	Ant1	2440	2.13	2.50	85.20	0.70
BLE_1M	Ant1	2480	2.13	2.50	85.20	0.70
BLE_2M	Ant1	2402	1.08	2.50	43.20	3.65
BLE_2M	Ant1	2440	1.08	2.50	43.20	3.65
BLE_2M	Ant1	2480	1.08	2.50	43.20	3.65

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Test Graphs

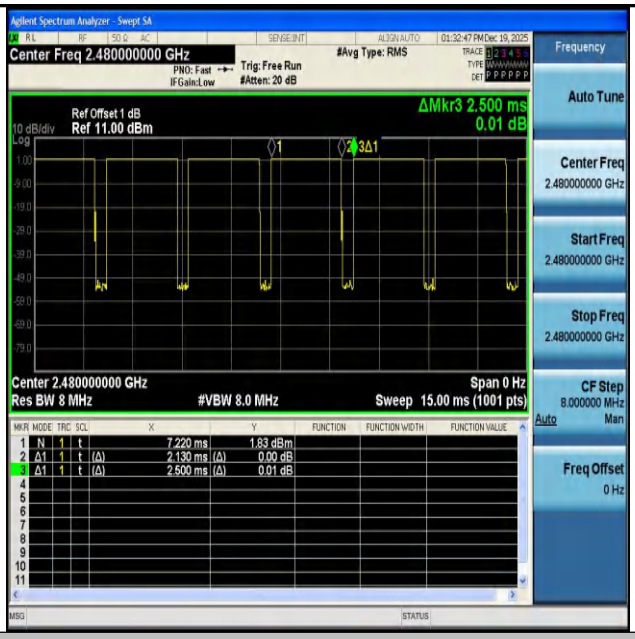


NTNV-BLE_1M-Ant1-2402

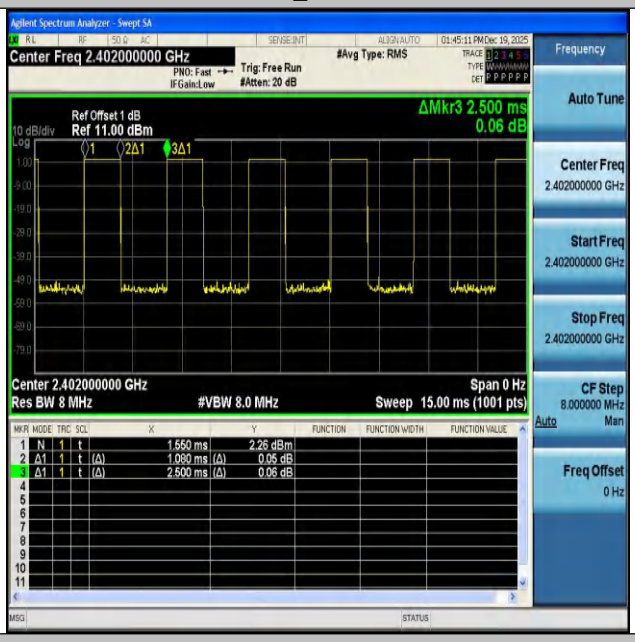


NTNV-BLE_1M-Ant1-2440

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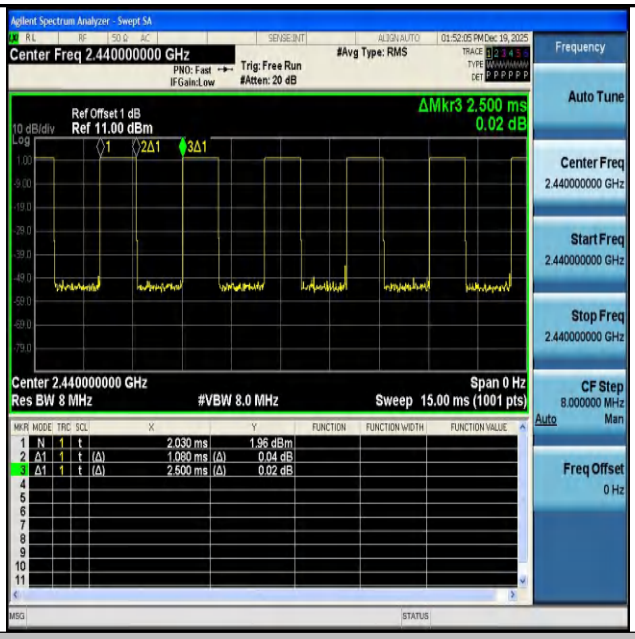
NTNV-BLE_1M-Ant1-2480



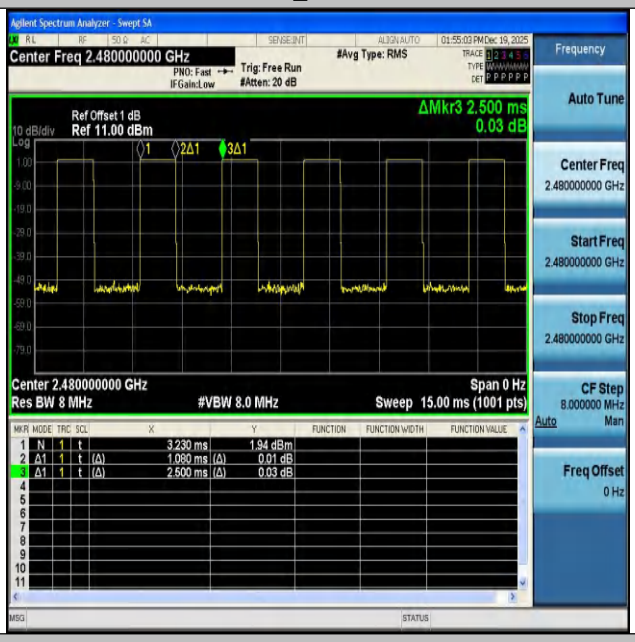
NTNV-BLE_2M-Ant1-2402

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NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---End---

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