

Appendix Test Data

Report No.:	18220WC40091902	Test Sample No.:	1-2-2
Start Test Date:	2024.05.07	Finish Test Date:	2024.05.13
Test Engineer:	Joker Huang	Auditor:	Justin Feng
Temperature:	25.5℃	Relative Humidity:	47%
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	0.692	2401.640	2402.332	0.5	PASS
BLE_1M	Ant1	2440	0.804	2439.648	2440.452	0.5	PASS
BLE_1M	Ant1	2480	0.724	2479.648	2480.372	0.5	PASS



Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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Appendix B: 99% Occupied Bandwidth

Test Result

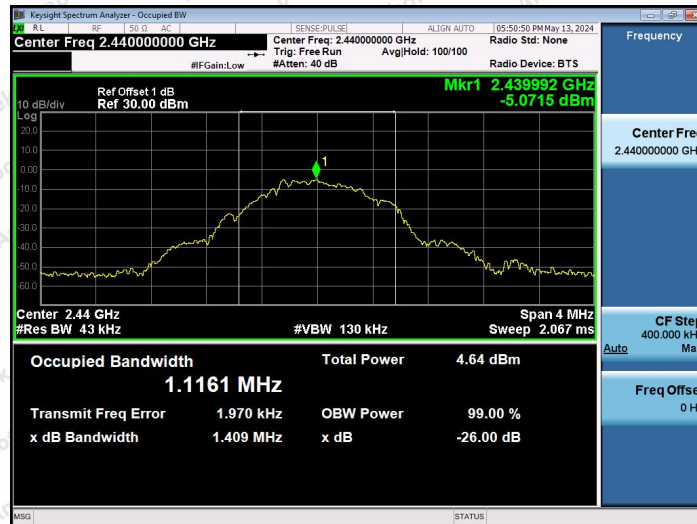
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.1371	2401.4768	2402.6139	---	---
BLE_1M	Ant1	2440	1.1161	2439.4439	2440.5600	---	---
BLE_1M	Ant1	2480	1.0590	2479.4698	2480.5288	---	---



Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440



BLE_1M-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	-0.61	≤30	PASS
BLE_1M	Ant1	2440	-1.50	≤30	PASS
BLE_1M	Ant1	2480	-3.01	≤30	PASS



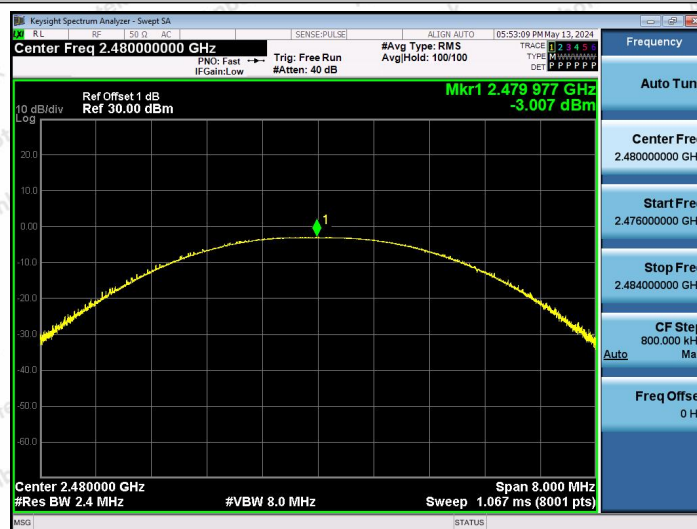
Test Graphs Peak



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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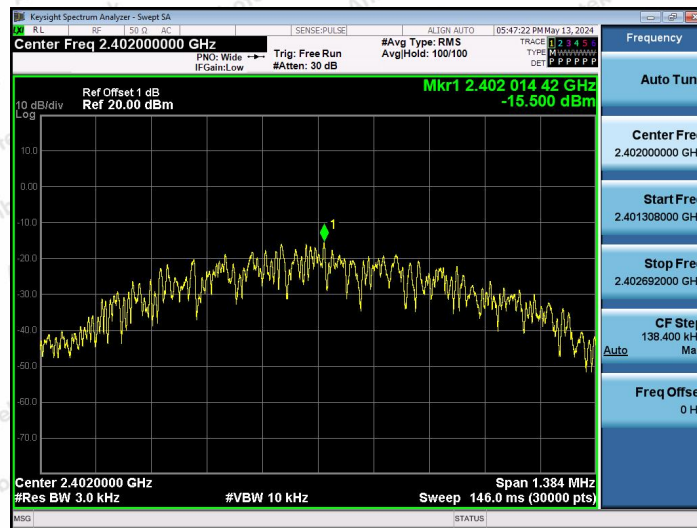
Appendix D: Maximum power spectral density

Test Result

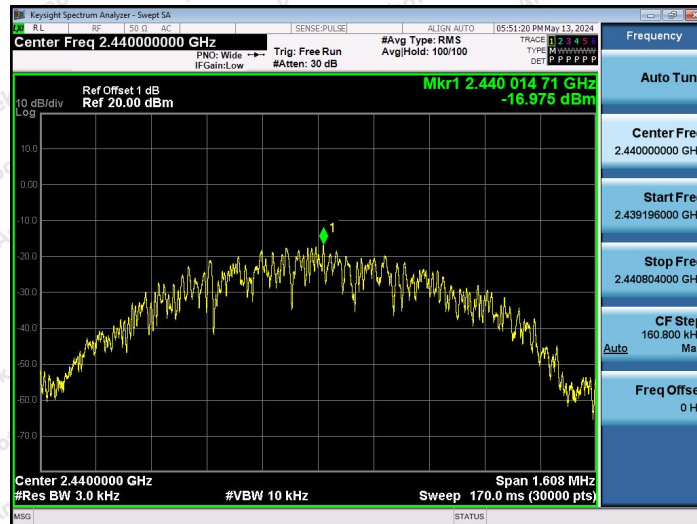
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-15.50	≤8.00	PASS
BLE_1M	Ant1	2440	-16.98	≤8.00	PASS
BLE_1M	Ant1	2480	-18.42	≤8.00	PASS



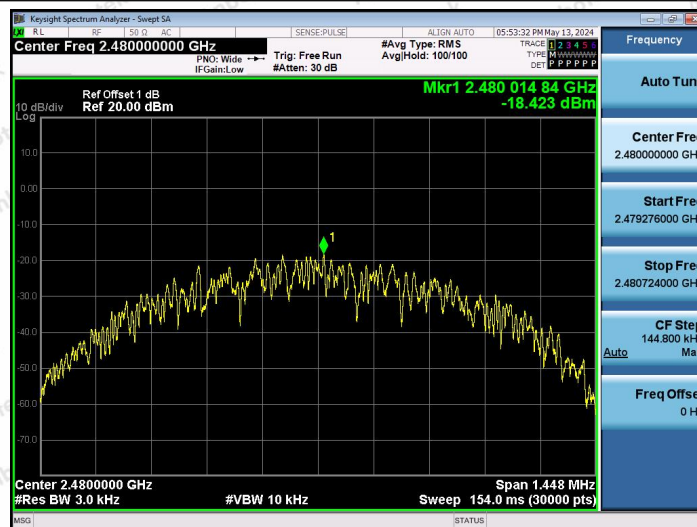
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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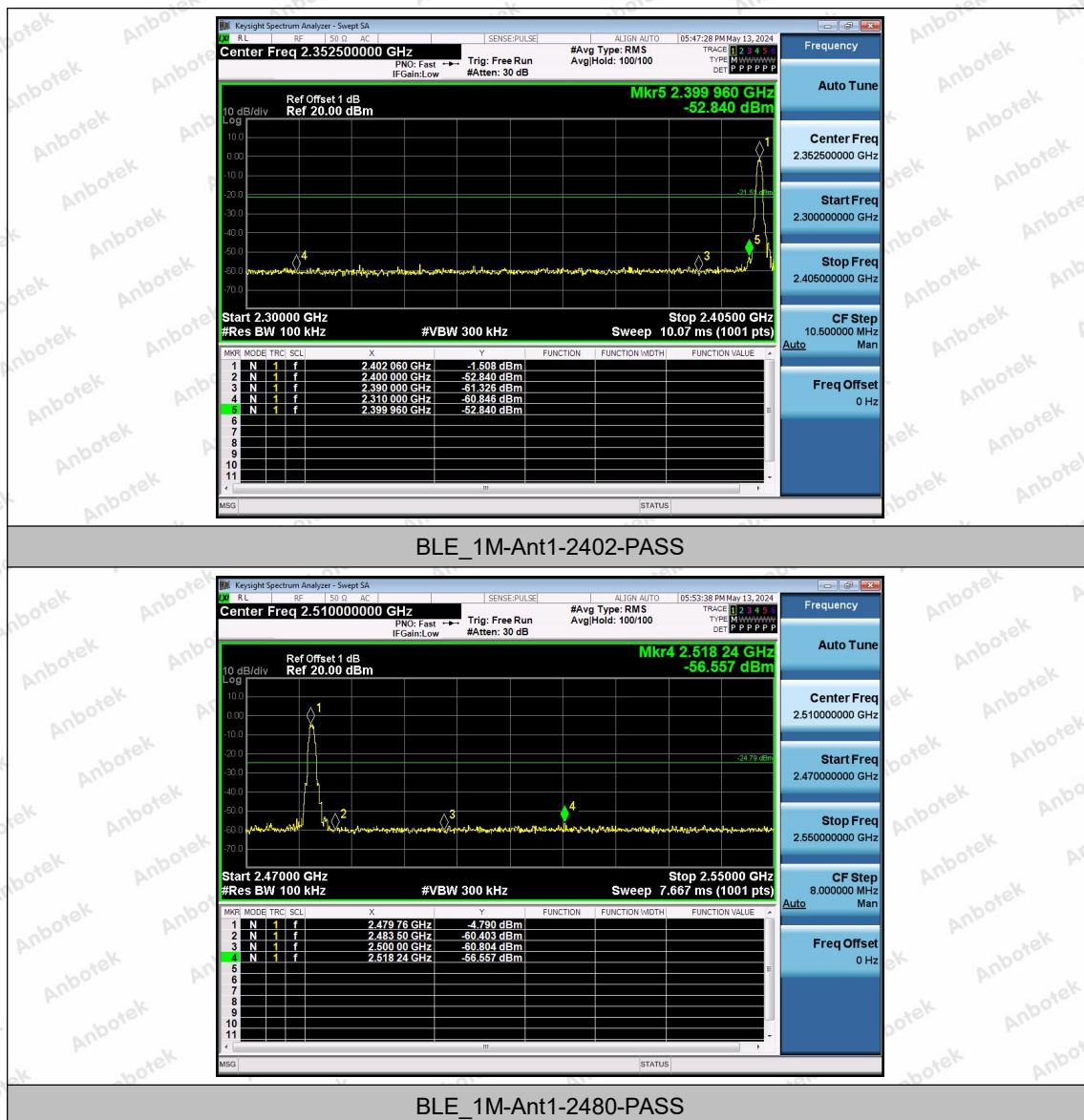


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-1.51	-52.84	≤-21.51	PASS
BLE_1M	Ant1	High	2480	-4.79	-56.56	≤-24.79	PASS

Test Graphs



Appendix F: Conducted Spurious Emission

Test Result

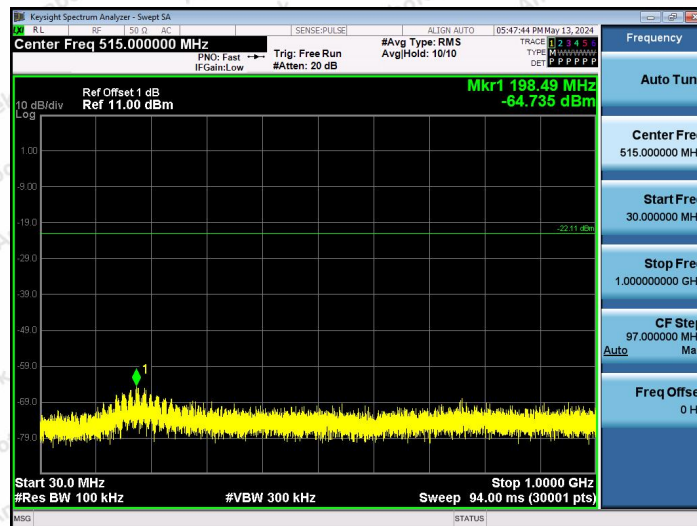
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-2.11	-2.11	---	PASS
BLE_1M	Ant1	2402	30~1000	-2.11	-64.74	≤-22.11	PASS
BLE_1M	Ant1	2402	1000~26500	-2.11	-53.16	≤-22.11	PASS
BLE_1M	Ant1	2440	0~Reference	-2.93	-2.93	---	PASS
BLE_1M	Ant1	2440	30~1000	-2.93	-65.01	≤-22.93	PASS
BLE_1M	Ant1	2440	1000~26500	-2.93	-52.92	≤-22.93	PASS
BLE_1M	Ant1	2480	0~Reference	-4.49	-4.49	---	PASS
BLE_1M	Ant1	2480	30~1000	-4.49	-53.16	≤-24.49	PASS
BLE_1M	Ant1	2480	1000~26500	-4.49	-54.13	≤-24.49	PASS



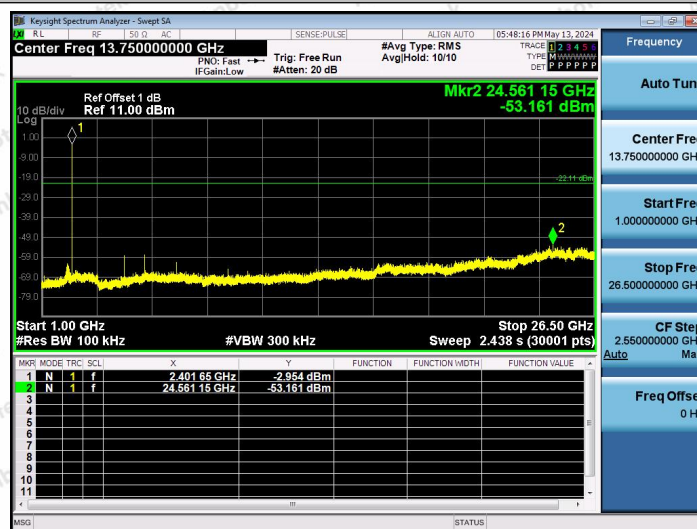
Test Graphs



BLE_1M-Ant1-2402-0~Reference-PASS



BLE_1M-Ant1-2402-30~1000-PASS



BLE_1M-Ant1-2402-1000~26500-PASS

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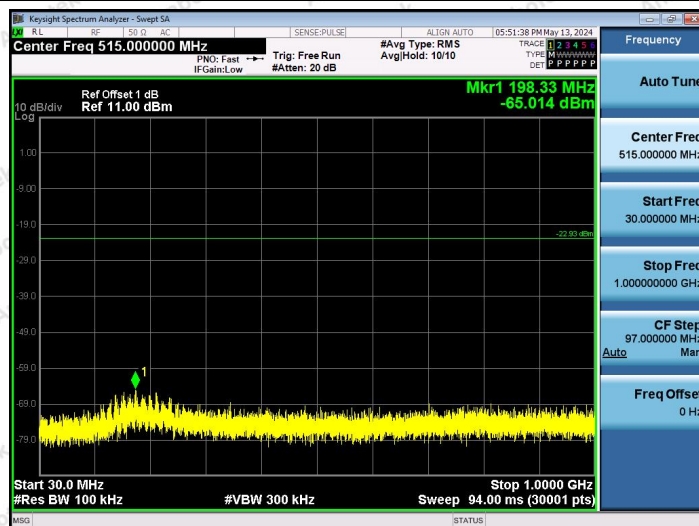


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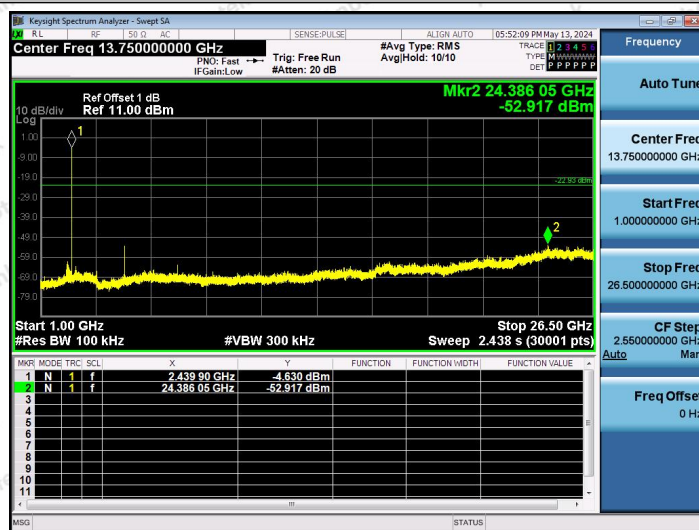




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

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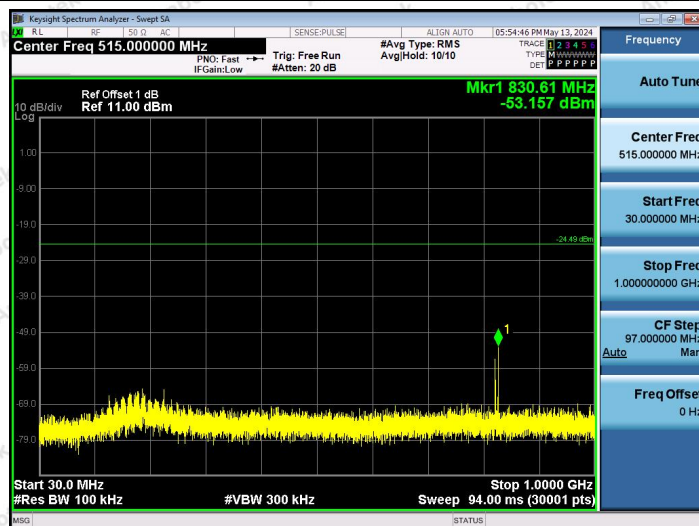


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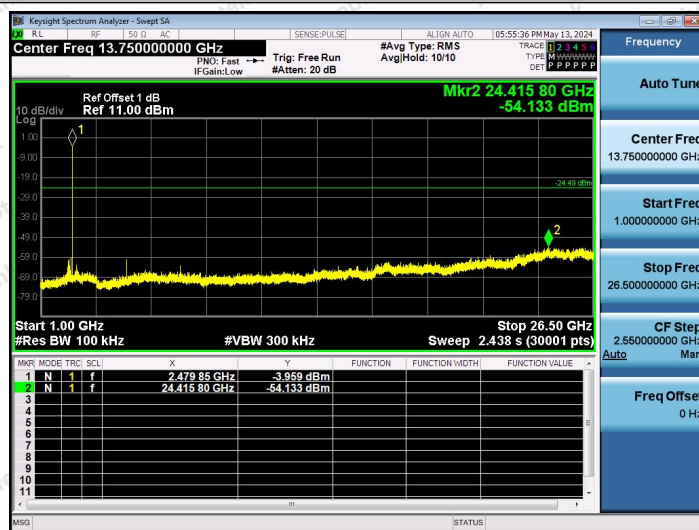




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS

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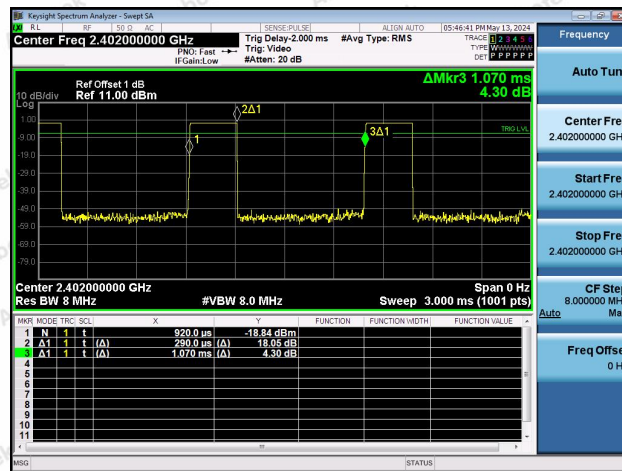
Appendix G: Duty Cycle

Test Result

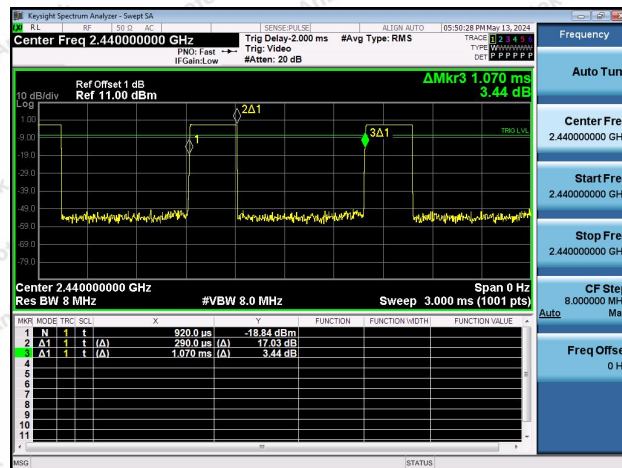
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.29	1.07	27.10	5.67
BLE_1M	Ant1	2440	0.29	1.07	27.10	5.67
BLE_1M	Ant1	2480	0.29	1.07	27.10	5.67



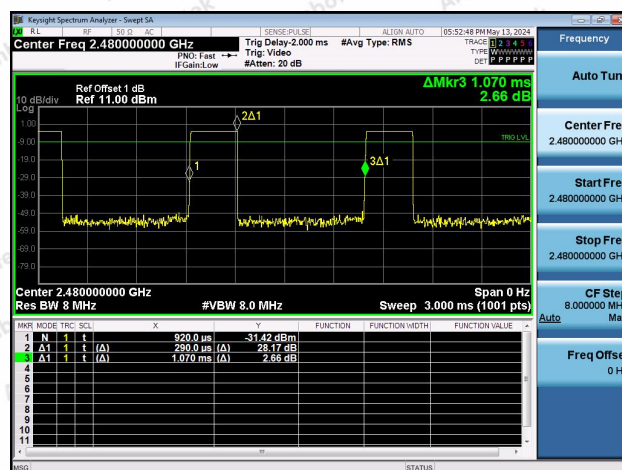
Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440



NTNV-BLE_1M-Ant1-2480

---End---

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