

Appendix Test Data

Report No.:	1812C40014612502	Test Sample No.:	1-2-2
Start Test Date:	2024.08.27	Finish Test Date:	2024.08.27
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	23.6℃	Relative Humidity:	49%
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	0.708	2401.656	2402.364	0.5	PASS
BLE_1M	Ant1	2440	0.696	2439.664	2440.360	0.5	PASS
BLE_1M	Ant1	2480	0.712	2479.660	2480.372	0.5	PASS
BLE_2M	Ant1	2402	1.084	2401.464	2402.548	0.5	PASS
BLE_2M	Ant1	2440	1.084	2439.476	2440.560	0.5	PASS
BLE_2M	Ant1	2480	1.120	2479.464	2480.584	0.5	PASS



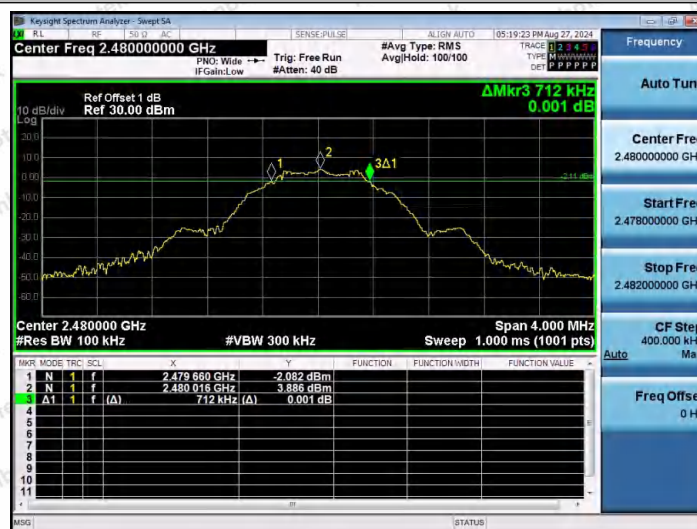
Test Graphs



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

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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	1.0604	2401.4889	2402.5493	---	---
BLE_1M	Ant1	2440	1.0607	2439.4943	2440.5550	---	---
BLE_1M	Ant1	2480	1.0606	2479.4978	2480.5584	---	---
BLE_2M	Ant1	2402	2.1000	2400.9746	2403.0746	---	---
BLE_2M	Ant1	2440	2.0830	2438.9894	2441.0724	---	---
BLE_2M	Ant1	2480	2.0768	2479.0010	2481.0778	---	---

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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	5.87	≤30	PASS
BLE_1M	Ant1	2440	5.34	≤30	PASS
BLE_1M	Ant1	2480	4.65	≤30	PASS
BLE_2M	Ant1	2402	5.81	≤30	PASS
BLE_2M	Ant1	2440	5.43	≤30	PASS
BLE_2M	Ant1	2480	4.50	≤30	PASS

Test Graphs Peak



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS

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BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



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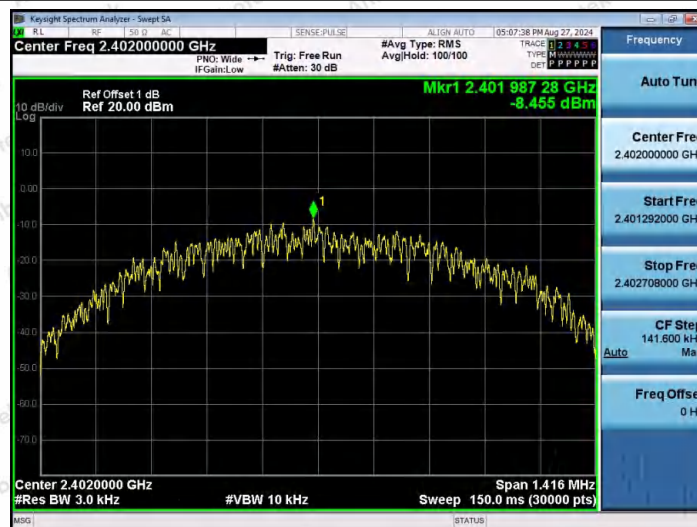
Appendix D: Maximum power spectral density

Test Result

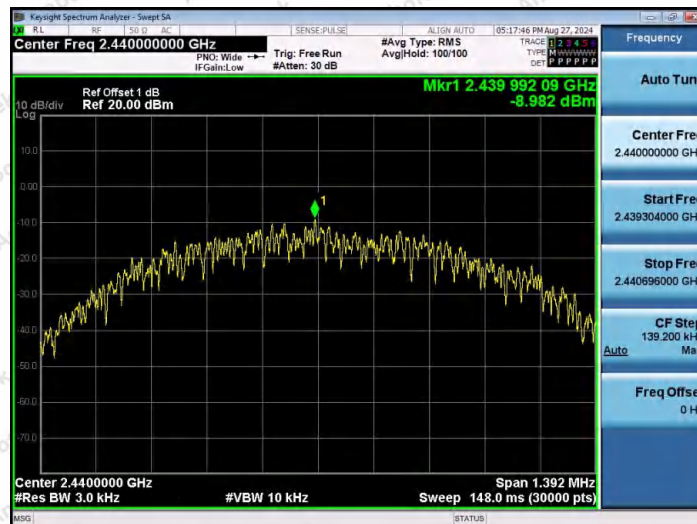
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-8.46	≤8.00	PASS
BLE_1M	Ant1	2440	-8.98	≤8.00	PASS
BLE_1M	Ant1	2480	-9.73	≤8.00	PASS
BLE_2M	Ant1	2402	-11.27	≤8.00	PASS
BLE_2M	Ant1	2440	-11.68	≤8.00	PASS
BLE_2M	Ant1	2480	-12.61	≤8.00	PASS



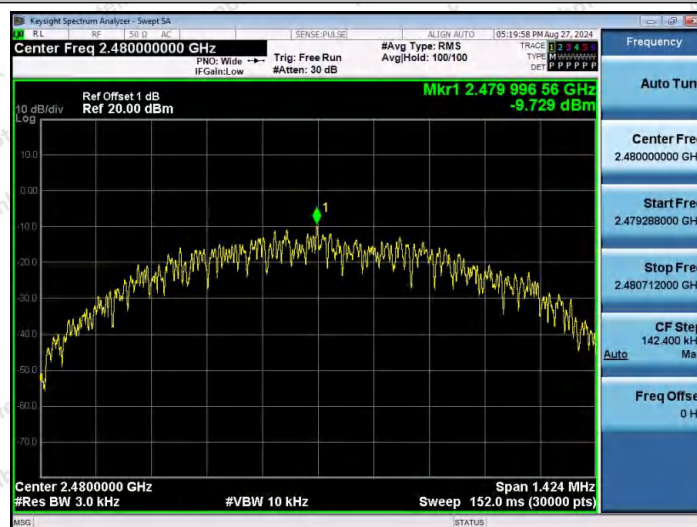
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

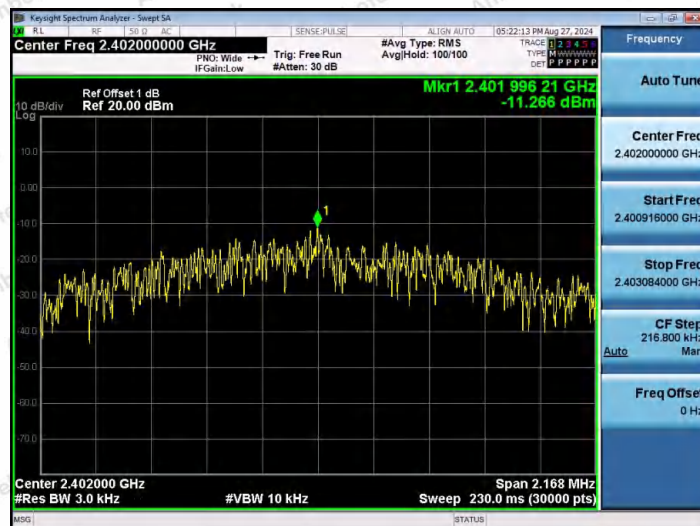
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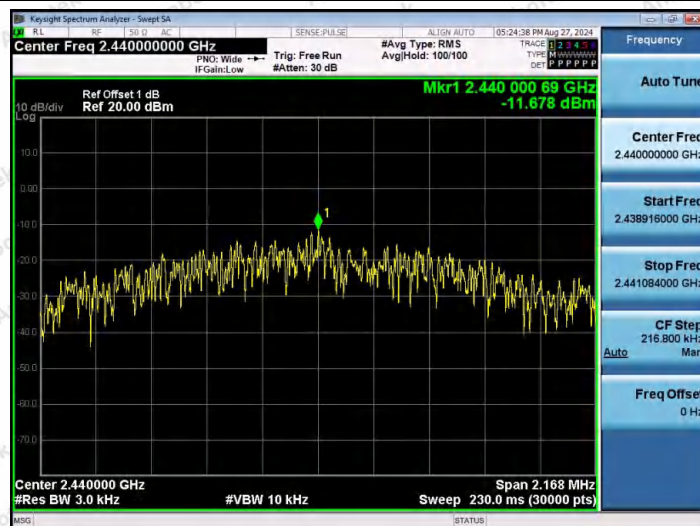


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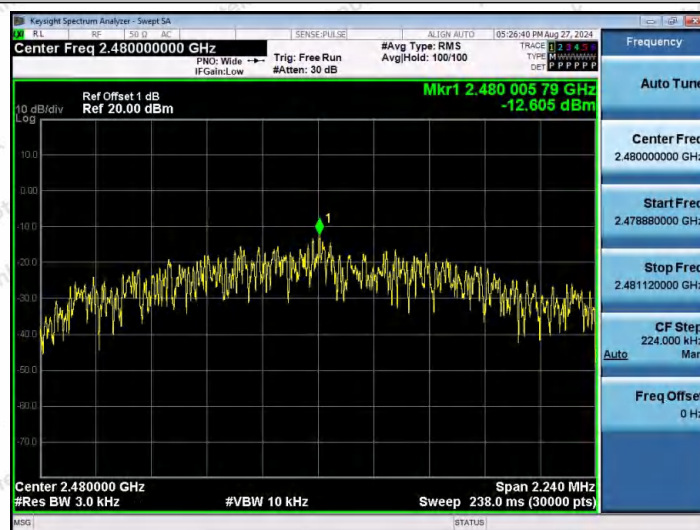




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS

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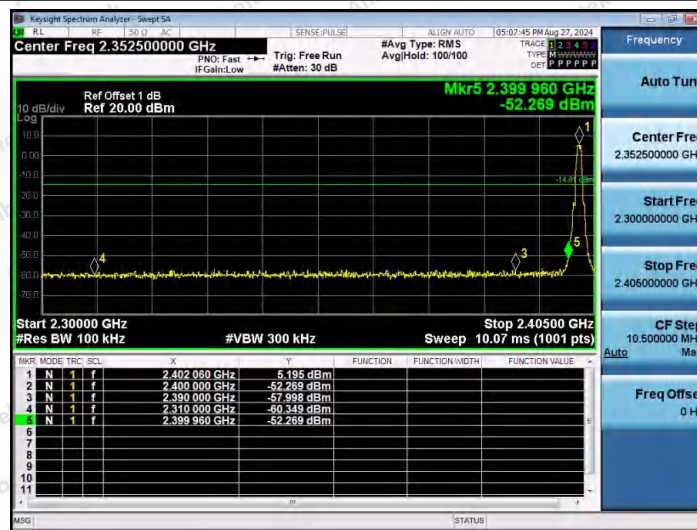
Appendix E: Band edge measurements

Test Result

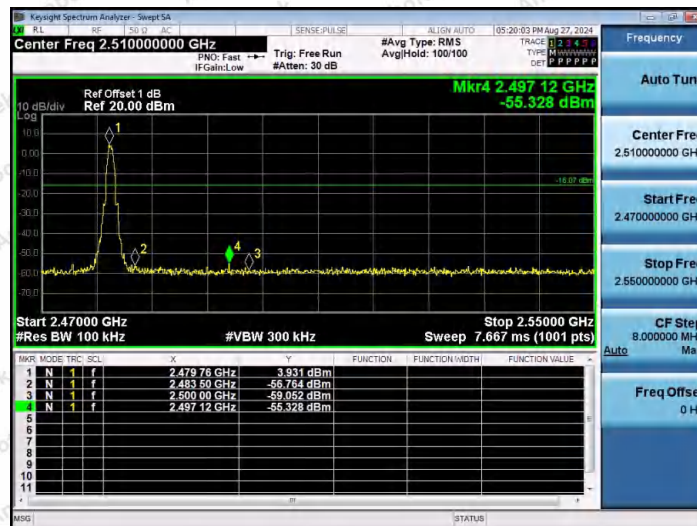
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	5.20	-52.27	≤-14.81	PASS
BLE_1M	Ant1	High	2480	3.93	-55.33	≤-16.07	PASS
BLE_2M	Ant1	Low	2402	4.79	-25.93	≤-15.21	PASS
BLE_2M	Ant1	High	2480	3.13	-55.77	≤-16.87	PASS



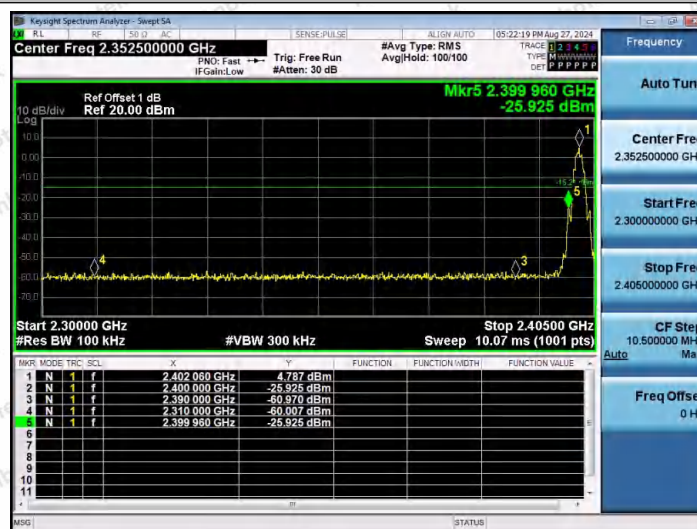
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS

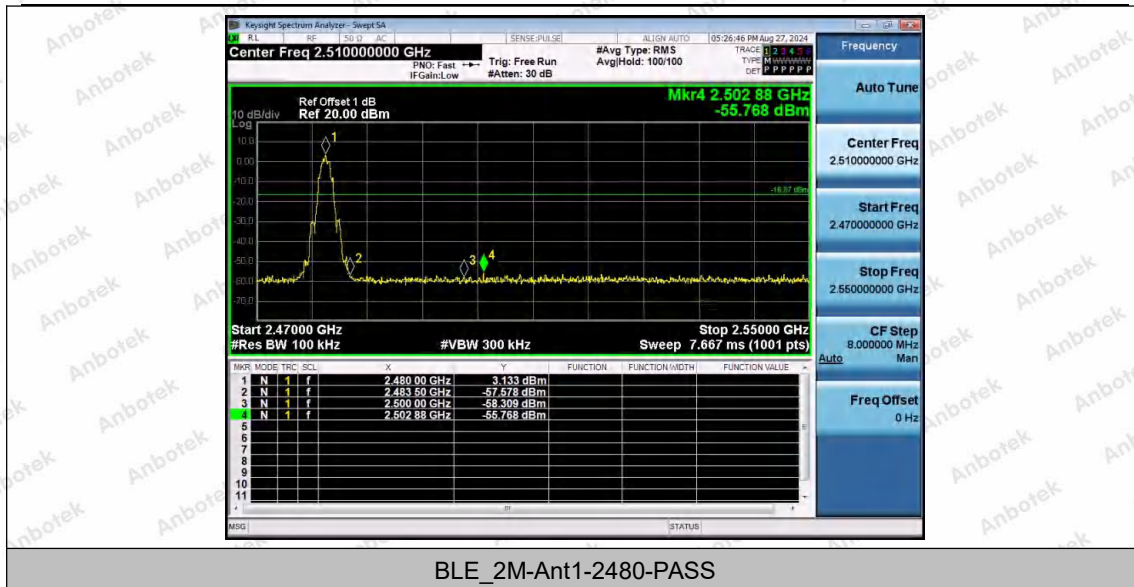
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BLE_2M-Ant1-2480-PASS

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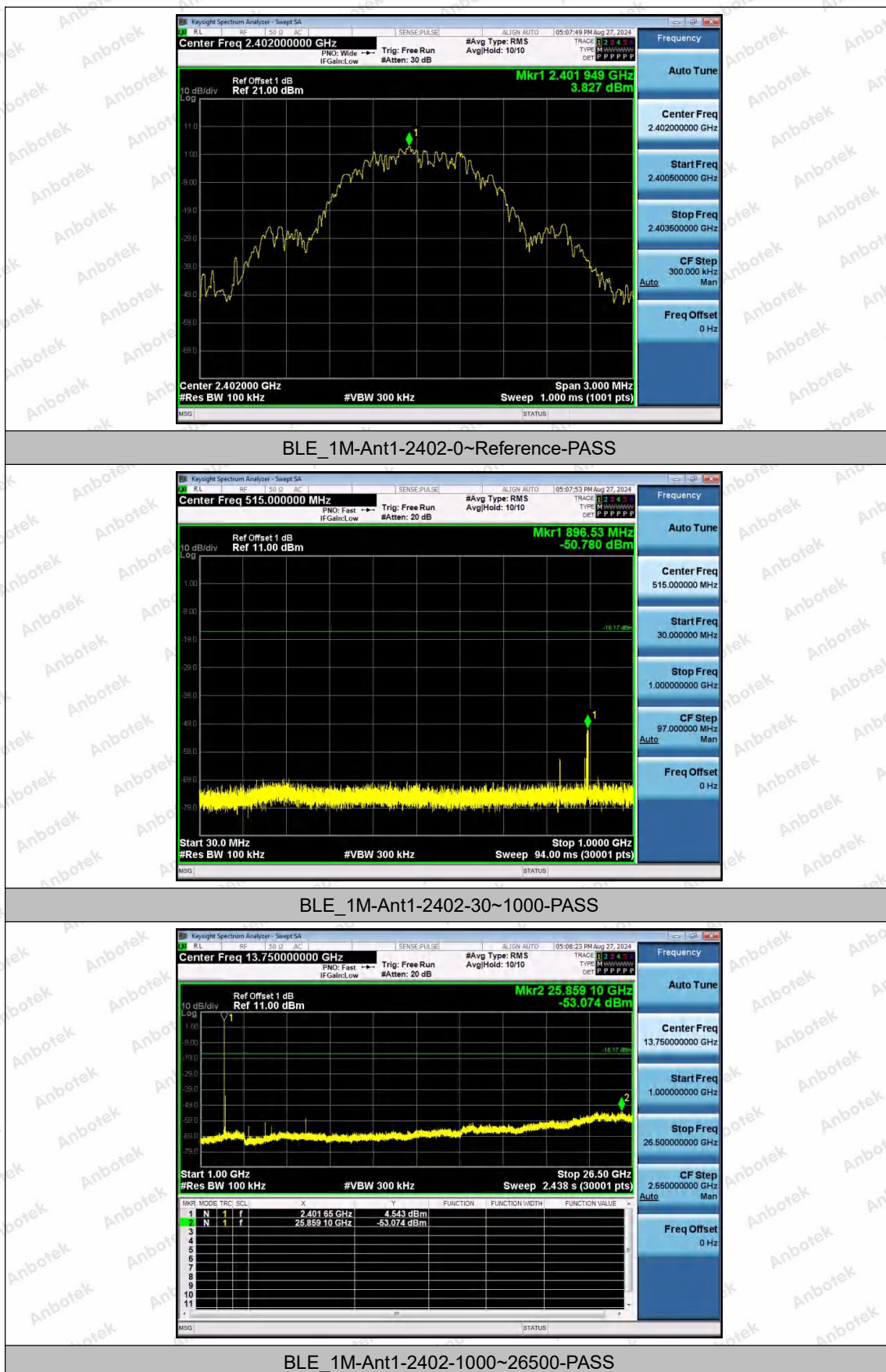
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	3.83	3.83	---	PASS
BLE_1M	Ant1	2402	30~1000	3.83	-50.78	≤-16.17	PASS
BLE_1M	Ant1	2402	1000~26500	3.83	-53.07	≤-16.17	PASS
BLE_1M	Ant1	2440	0~Reference	4.29	4.29	---	PASS
BLE_1M	Ant1	2440	30~1000	4.29	-68.64	≤-15.71	PASS
BLE_1M	Ant1	2440	1000~26500	4.29	-52.68	≤-15.71	PASS
BLE_1M	Ant1	2480	0~Reference	2.97	2.97	---	PASS
BLE_1M	Ant1	2480	30~1000	2.97	-68.3	≤-17.03	PASS
BLE_1M	Ant1	2480	1000~26500	2.97	-52.84	≤-17.03	PASS
BLE_2M	Ant1	2402	0~Reference	4.59	4.59	---	PASS
BLE_2M	Ant1	2402	30~1000	4.59	-68.12	≤-15.41	PASS
BLE_2M	Ant1	2402	1000~26500	4.59	-52.04	≤-15.41	PASS
BLE_2M	Ant1	2440	0~Reference	1.99	1.99	---	PASS
BLE_2M	Ant1	2440	30~1000	1.99	-69.1	≤-18.01	PASS
BLE_2M	Ant1	2440	1000~26500	1.99	-53.31	≤-18.01	PASS
BLE_2M	Ant1	2480	0~Reference	0.75	0.75	---	PASS
BLE_2M	Ant1	2480	30~1000	0.75	-68.08	≤-19.25	PASS
BLE_2M	Ant1	2480	1000~26500	0.75	-53.16	≤-19.25	PASS



Test Graphs



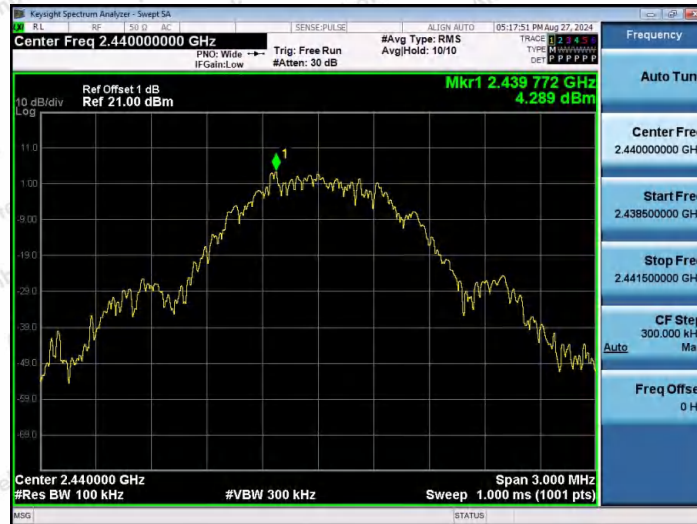
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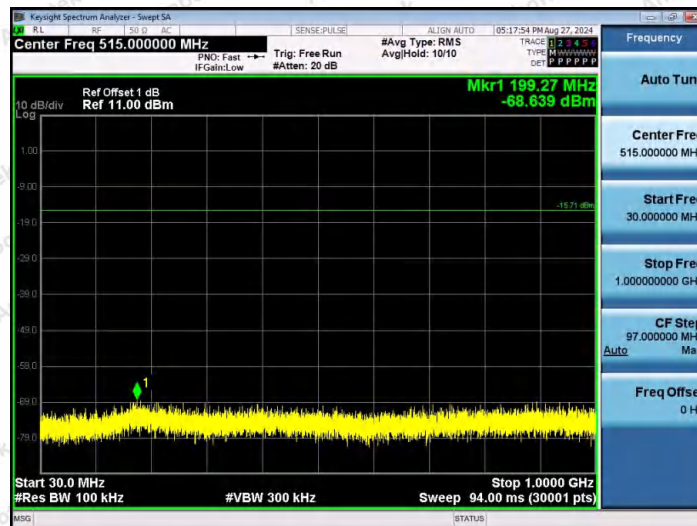


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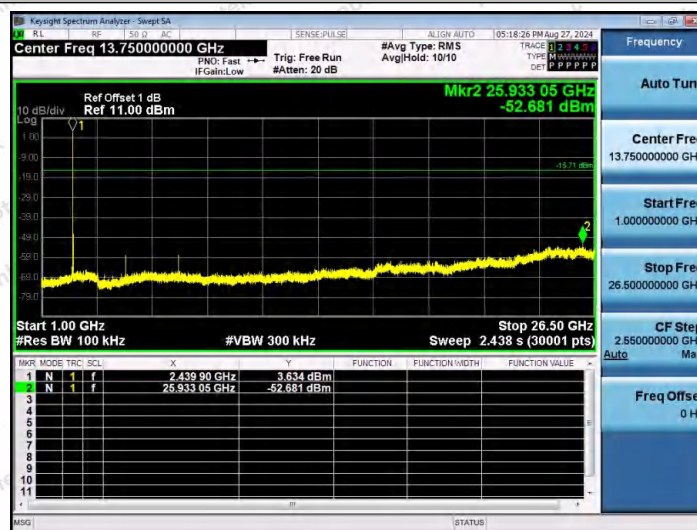




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

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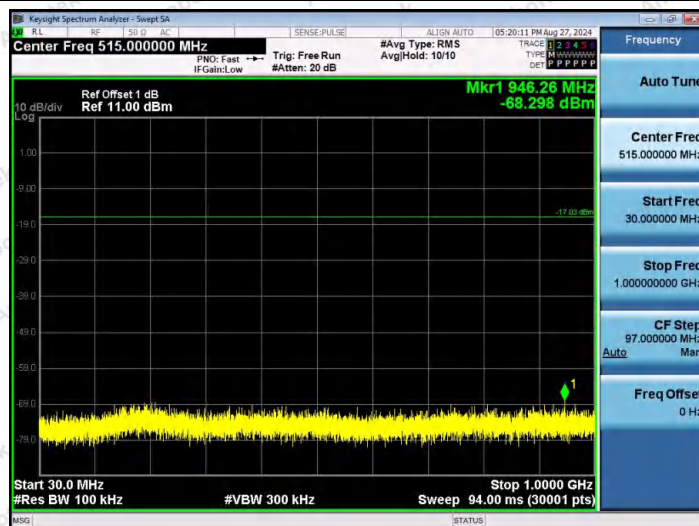


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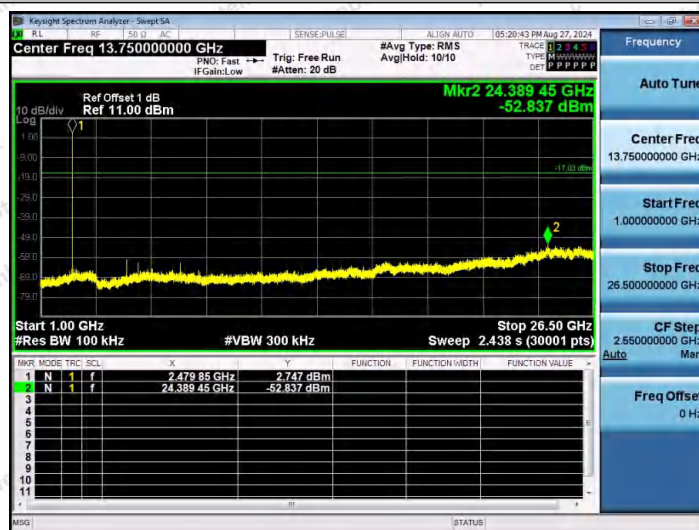




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS

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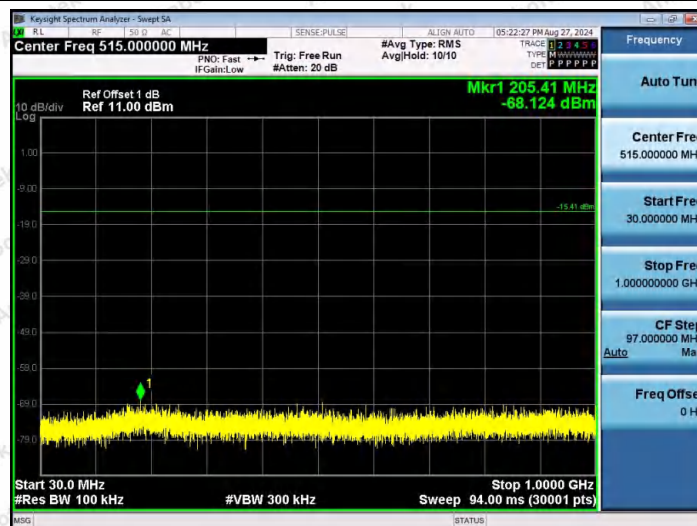


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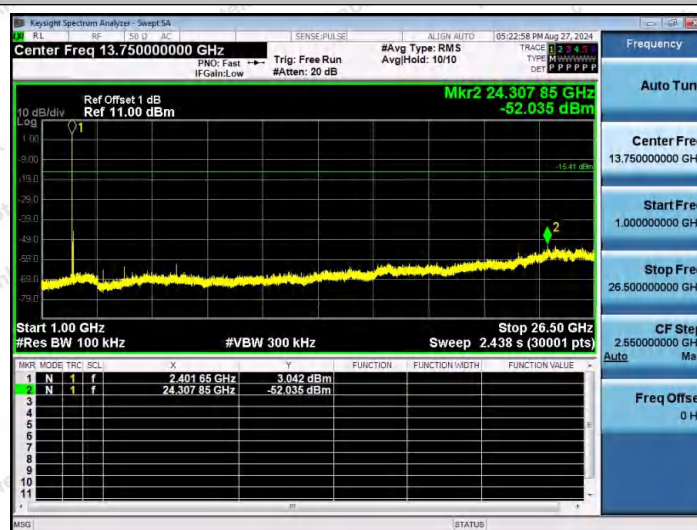




BLE_2M-Ant1-2402-0~Reference-PASS



BLE_2M-Ant1-2402-30~1000-PASS



BLE_2M-Ant1-2402-1000~26500-PASS

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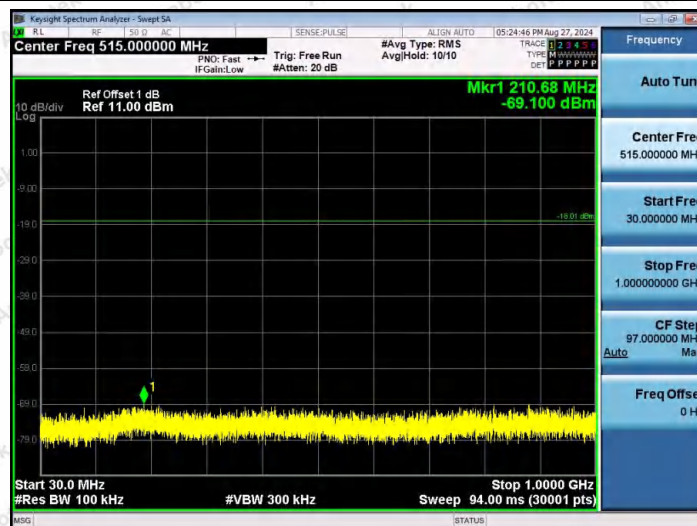


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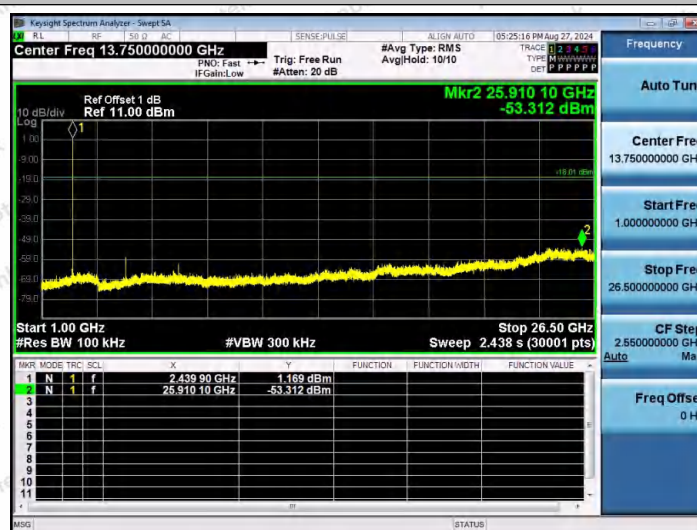




BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-PASS



BLE_2M-Ant1-2440-1000~26500-PASS

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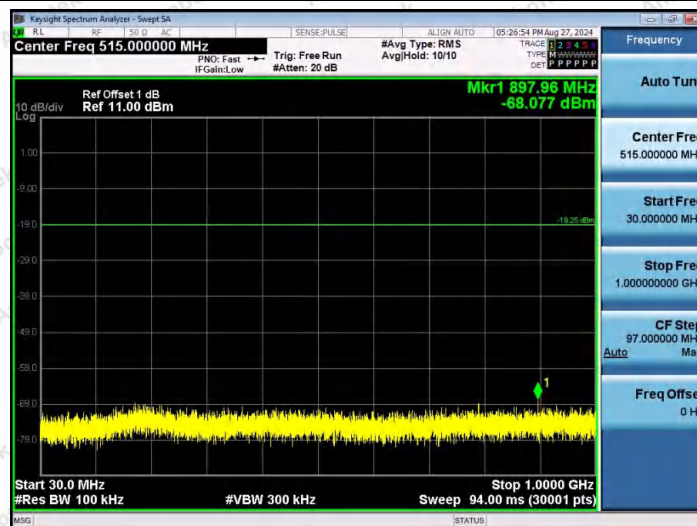


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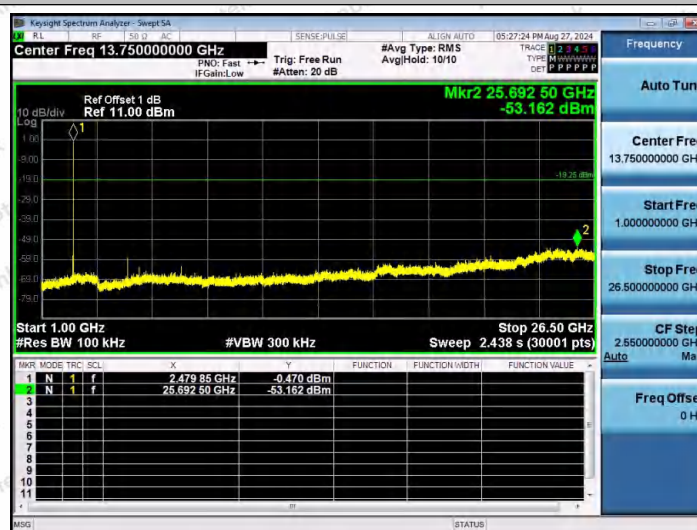




BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS

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Appendix G: Duty Cycle

Test Result

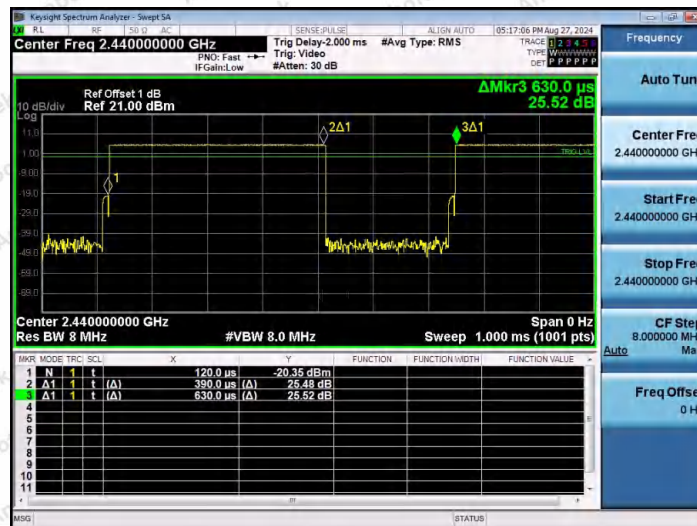
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.39	0.63	61.90	2.08
BLE_1M	Ant1	2440	0.39	0.63	61.90	2.08
BLE_1M	Ant1	2480	0.39	0.63	61.90	2.08
BLE_2M	Ant1	2402	0.21	0.63	33.33	4.77
BLE_2M	Ant1	2440	0.21	0.63	33.33	4.77
BLE_2M	Ant1	2480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



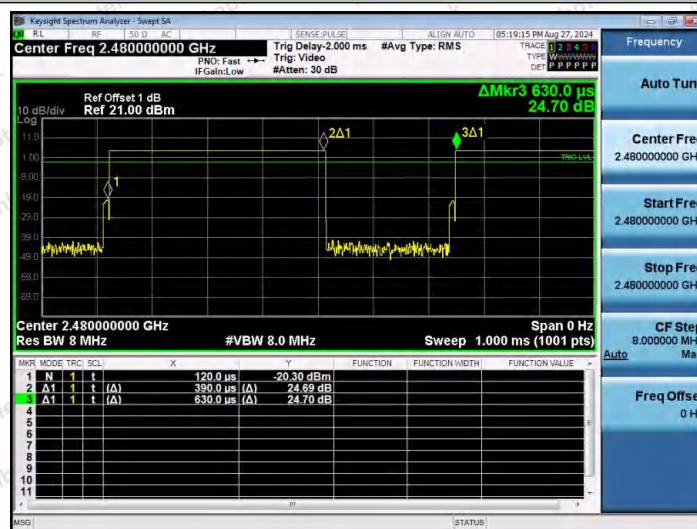
Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440



NTNV-BLE_1M-Ant1-2480

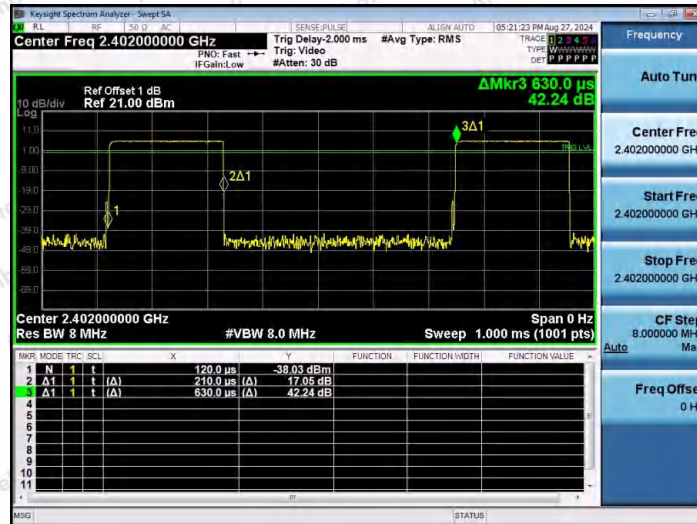
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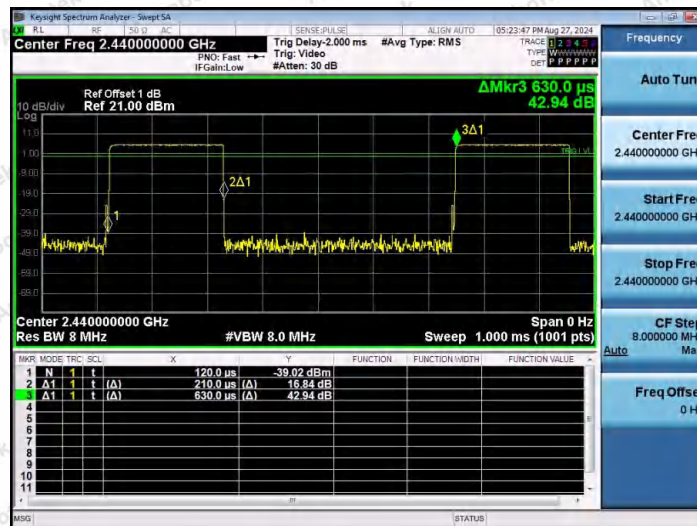


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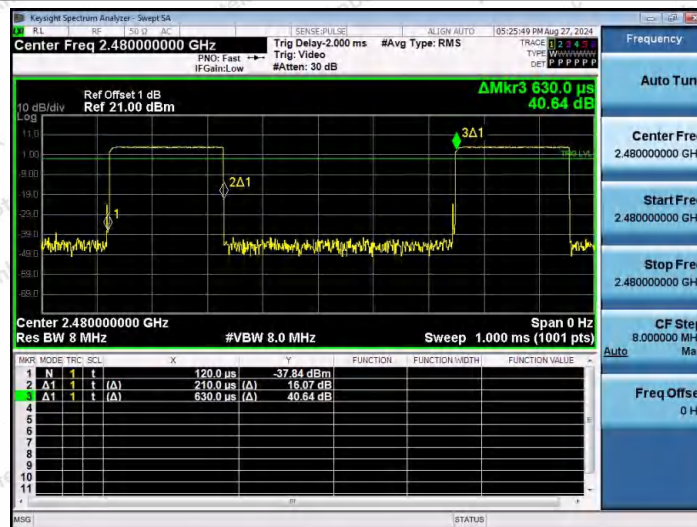




NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---End---

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