Appendix Test Data

Report No.:	1812C50618812502-01	Test Sample No.:	1-2-2
Start Test Date:	2025-11-21	Finish Test Date:	2025-12-11
Test Engineer:	Alex Reng	Auditor:	Justin Feng
Temperature:	21.3℃	Relative Humidity:	59%
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	0.704	2401.640	2402.344	0.5	PASS
BLE_1M	Ant1	2440	0.704	2439.648	2440.352	0.5	PASS
BLE_1M	Ant1	2480	0.672	2479.664	2480.336	0.5	PASS
BLE_2M	Ant1	2404	1.124	2403.456	2404.580	0.5	PASS
BLE_2M	Ant1	2440	1.196	2439.376	2440.572	0.5	PASS
BLE_2M	Ant1	2478	1.144	2477.440	2478.584	0.5	PASS

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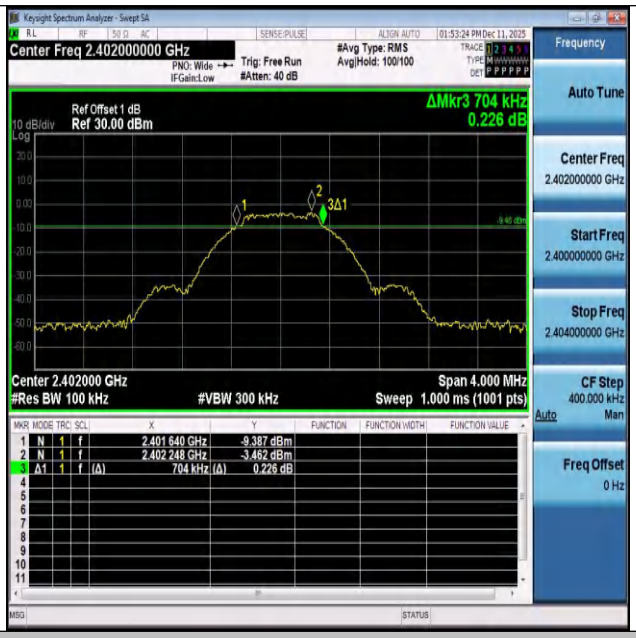
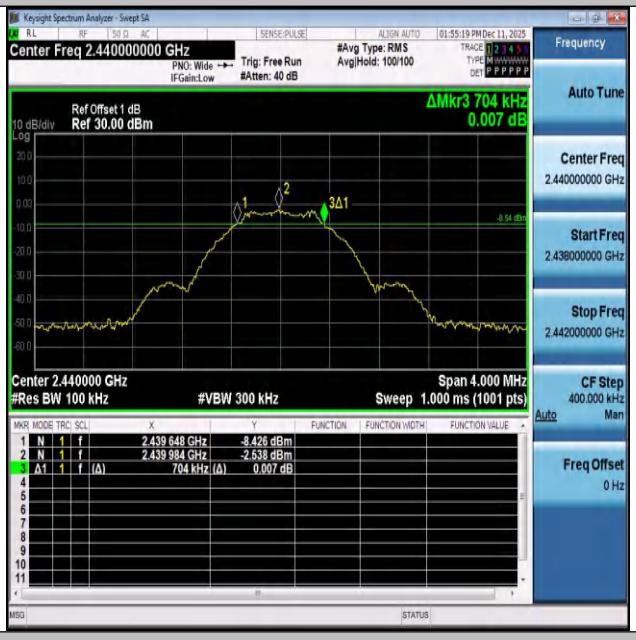
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS

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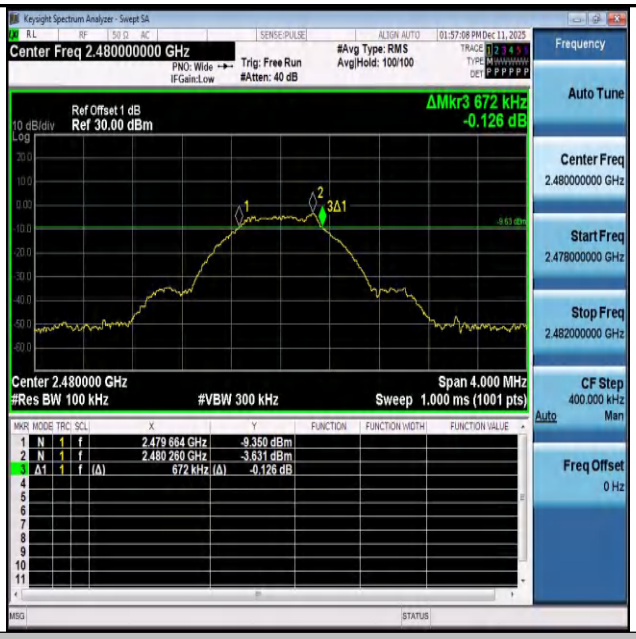

BLE_1M-Ant1-2480-PASS

BLE_2M-Ant1-2404-PASS

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BLE_2M-Ant1-2440-PASS

BLE_2M-Ant1-2478-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	1.0356	2401.4857	2402.5213	---	---
BLE_1M	Ant1	2440	1.0385	2439.4846	2440.5231	---	---
BLE_1M	Ant1	2480	1.0411	2479.4835	2480.5246	---	---
BLE_2M	Ant1	2404	2.0879	2402.9778	2405.0657	---	---
BLE_2M	Ant1	2440	2.0830	2438.9753	2441.0583	---	---
BLE_2M	Ant1	2478	2.0947	2476.9688	2479.0635	---	---

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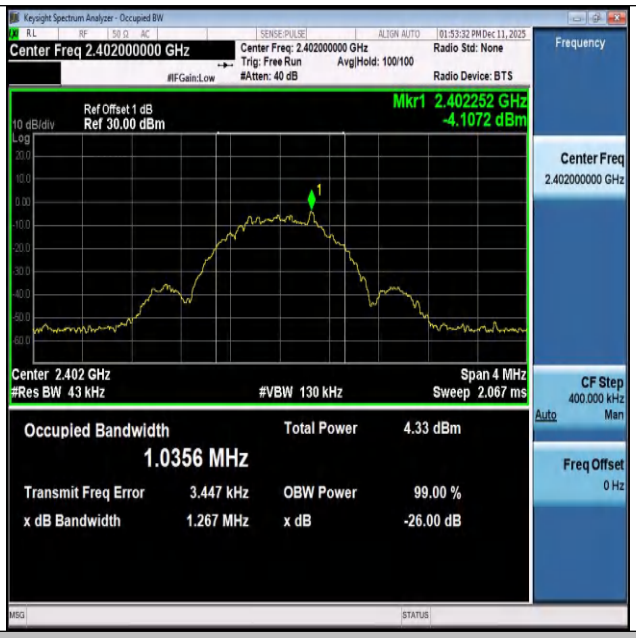
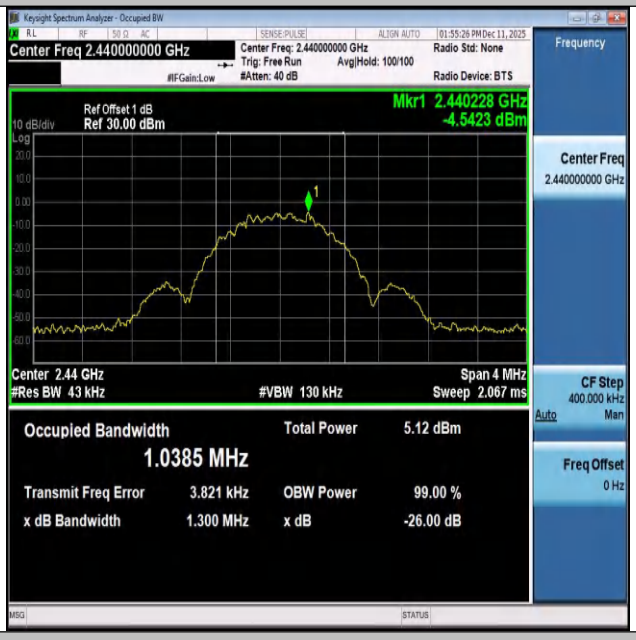
Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440

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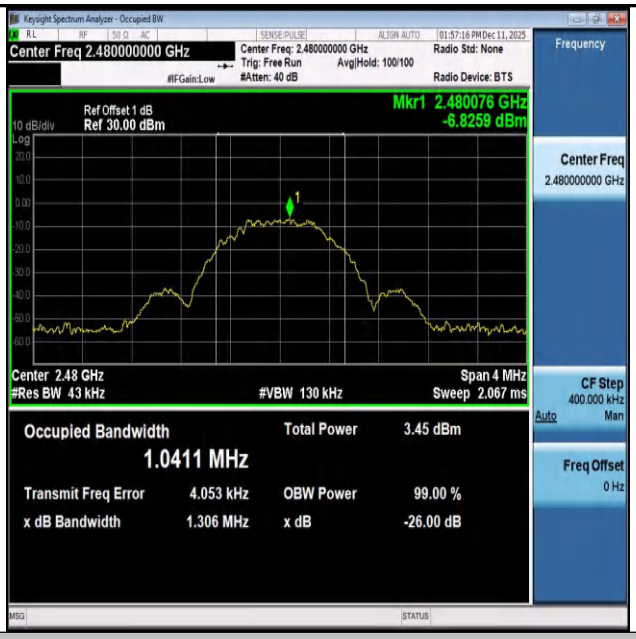
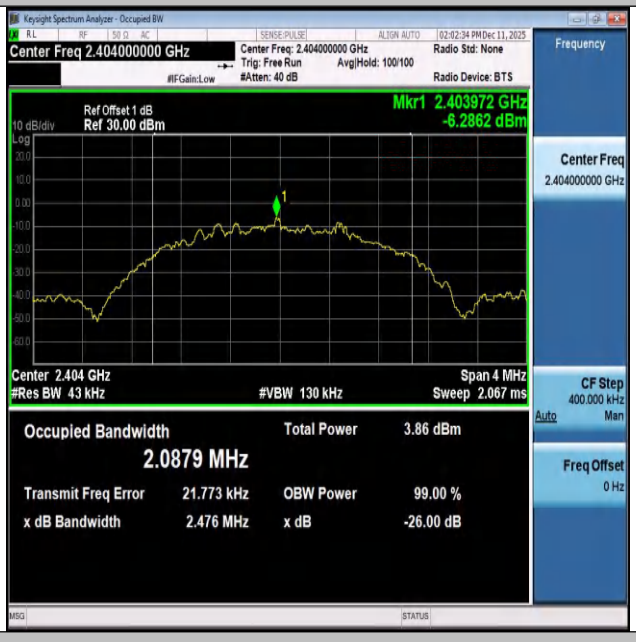


BLE_1M-Ant1-2480



BLE_2M-Ant1-2404

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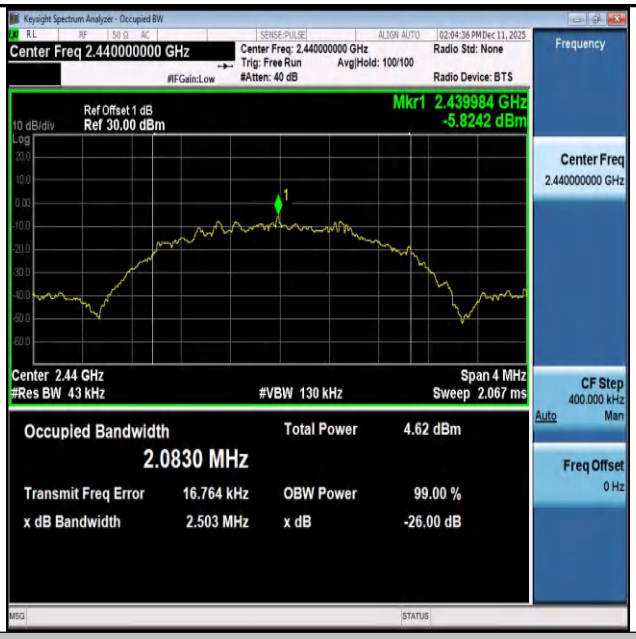
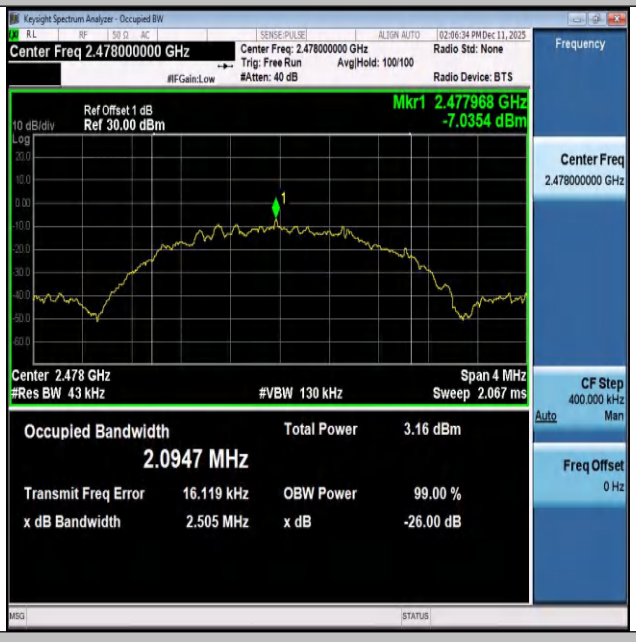


BLE_2M-Ant1-2440



BLE_2M-Ant1-2478

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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	-2.26	≤30	PASS
BLE_1M	Ant1	2440	**-1.45**	≤30	PASS
BLE_1M	Ant1	2480	-3.02	≤30	PASS
BLE_2M	Ant1	2404	-2.19	≤30	PASS
BLE_2M	Ant1	2440	-1.50	≤30	PASS
BLE_2M	Ant1	2478	-2.81	≤30	PASS

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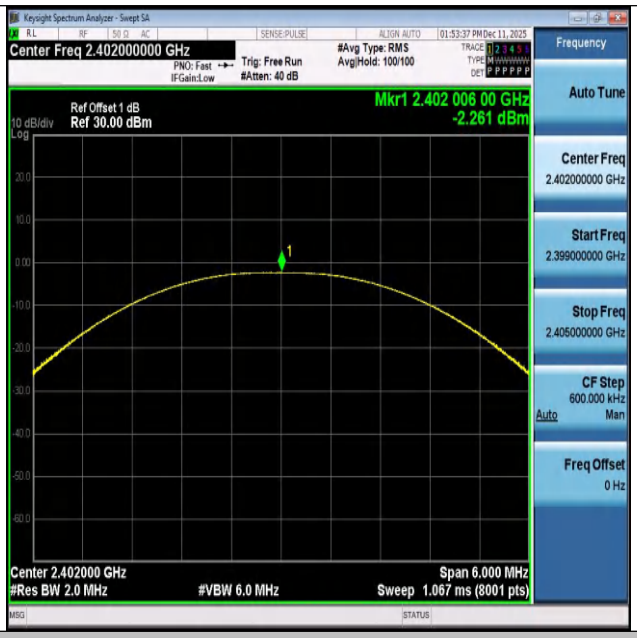
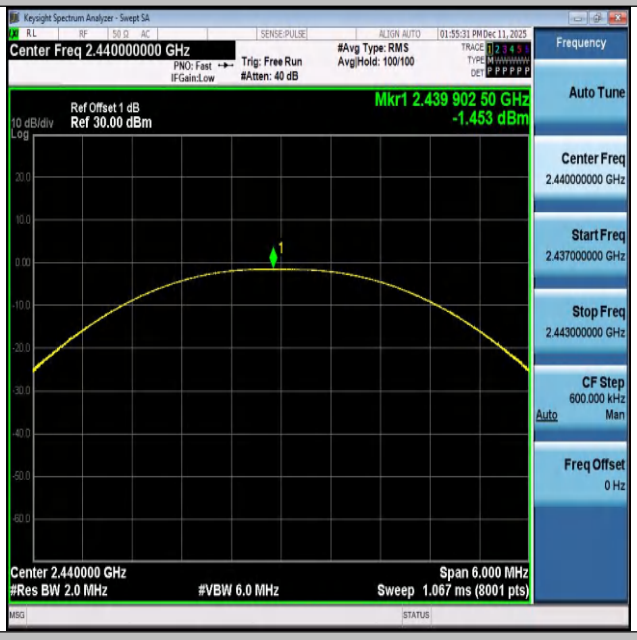
Test Graphs Peak



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS

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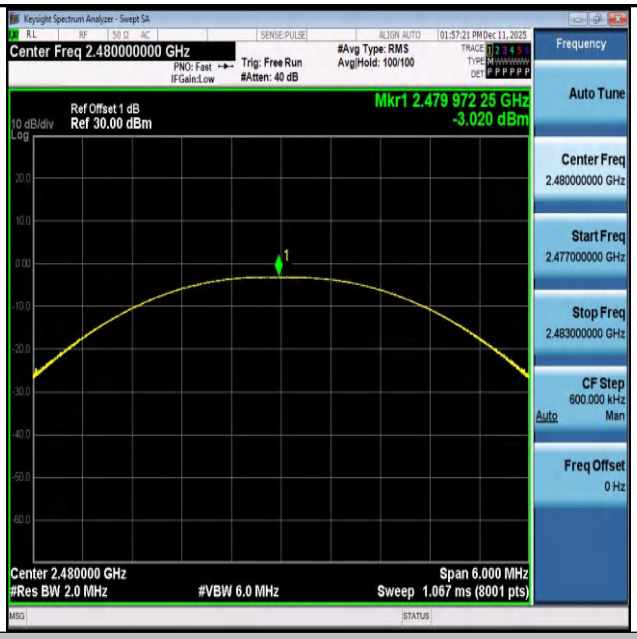
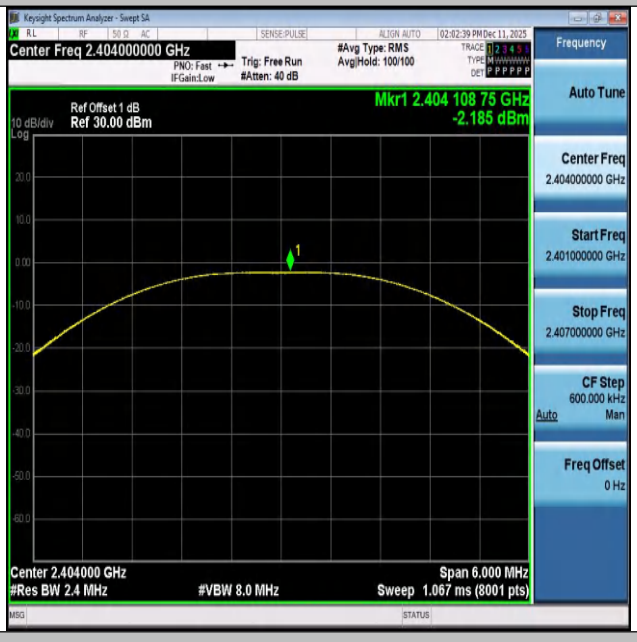


BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2404-PASS

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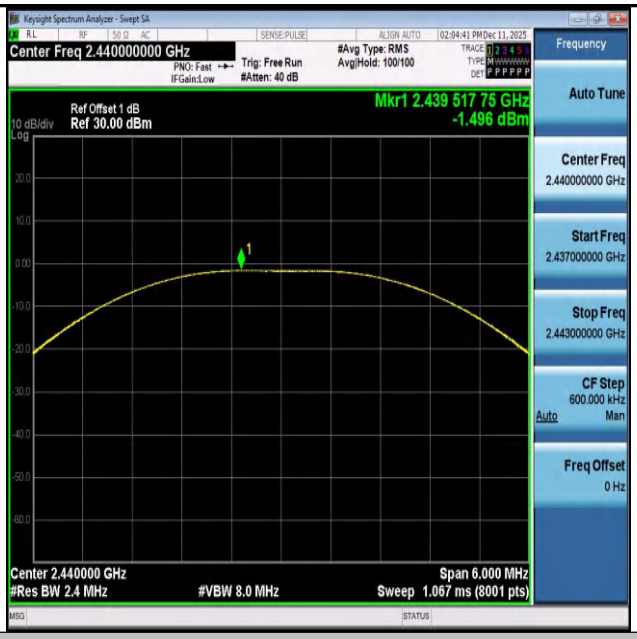
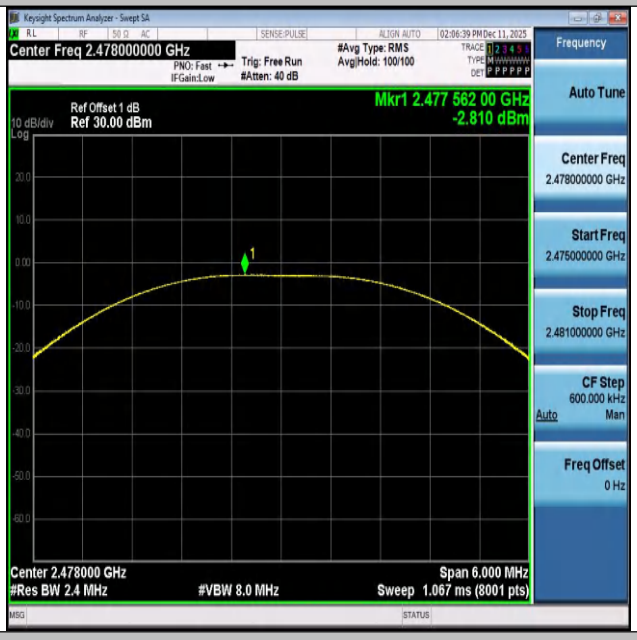


BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2478-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	-18.68	≤8.00	PASS
BLE_1M	Ant1	2440	-17.88	≤8.00	PASS
BLE_1M	Ant1	2480	-19.42	≤8.00	PASS
BLE_2M	Ant1	2404	-20.98	≤8.00	PASS
BLE_2M	Ant1	2440	-20.24	≤8.00	PASS
BLE_2M	Ant1	2478	-21.63	≤8.00	PASS

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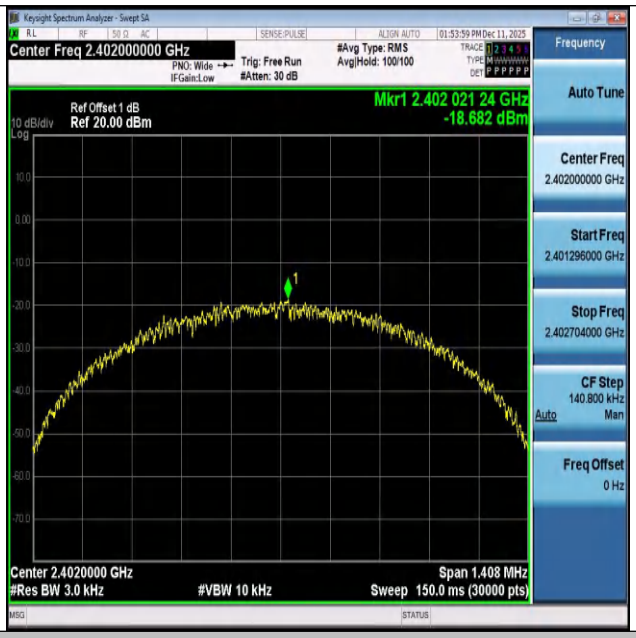
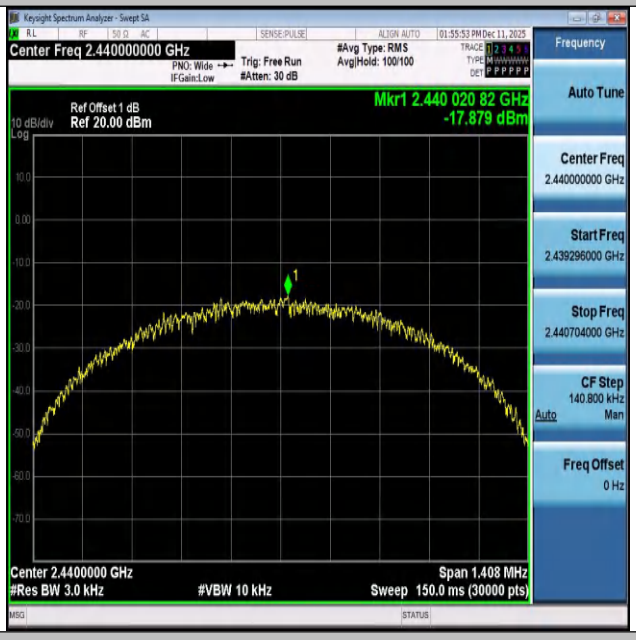
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS

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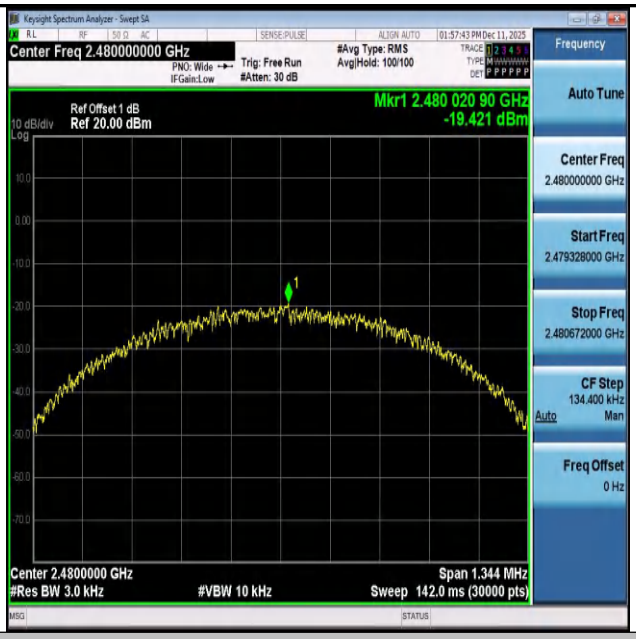
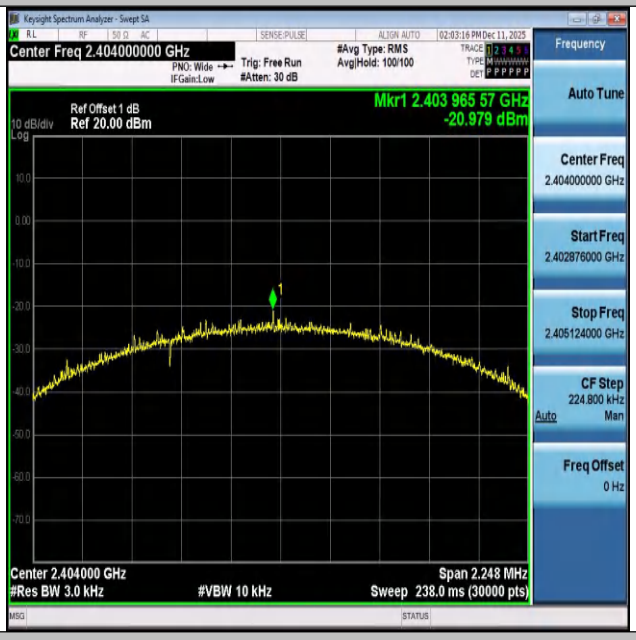


BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2404-PASS

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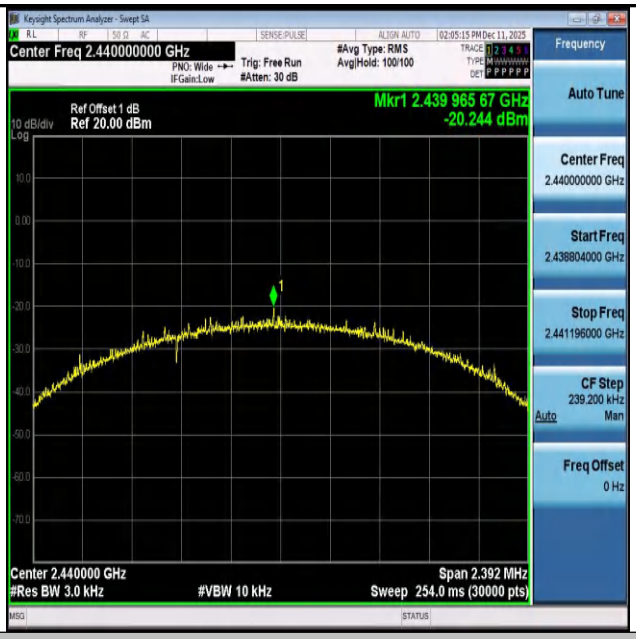
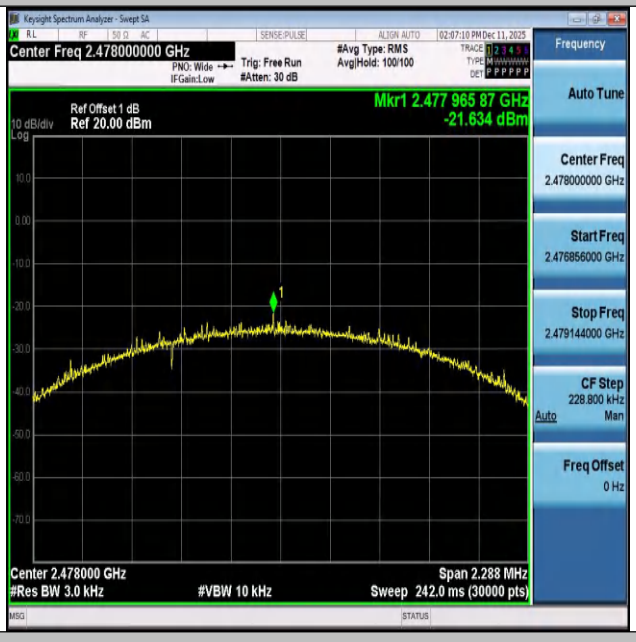


BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2478-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	-3.03	-57.85	≤-23.03	PASS
BLE_1M	Ant1	High	2480	-4.05	-57.34	≤-24.05	PASS
BLE_2M	Ant1	Low	2404	-3.23	-57.13	≤-23.23	PASS
BLE_2M	Ant1	High	2478	-4.44	-57.47	≤-24.44	PASS

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

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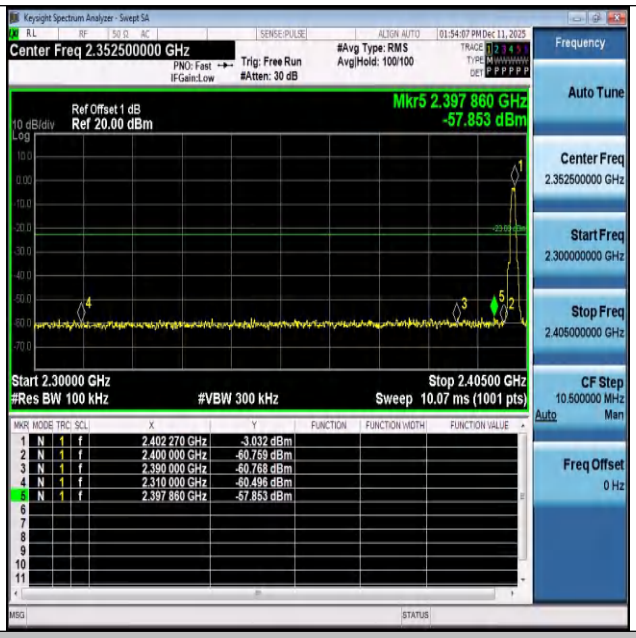
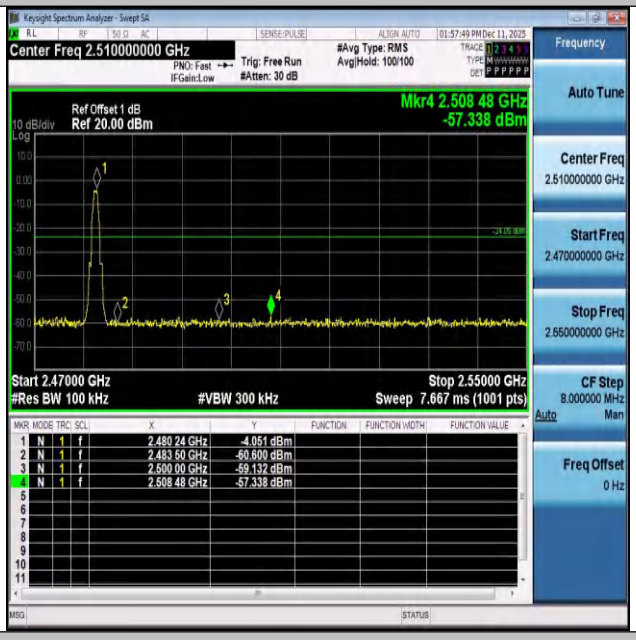
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS

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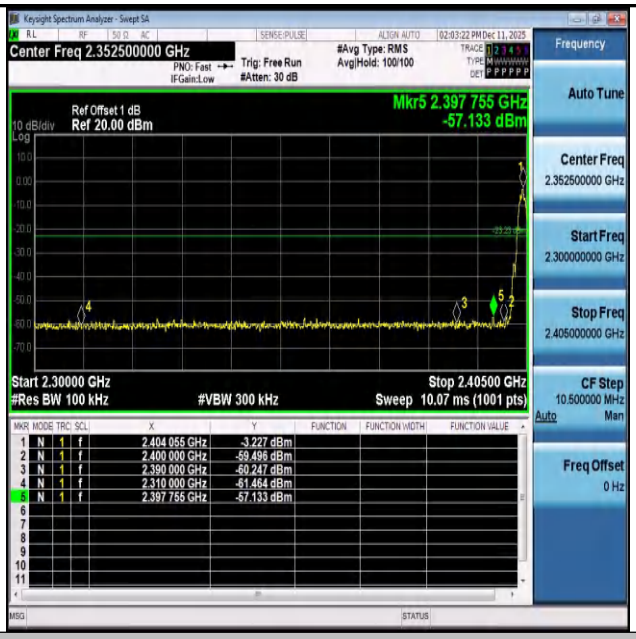
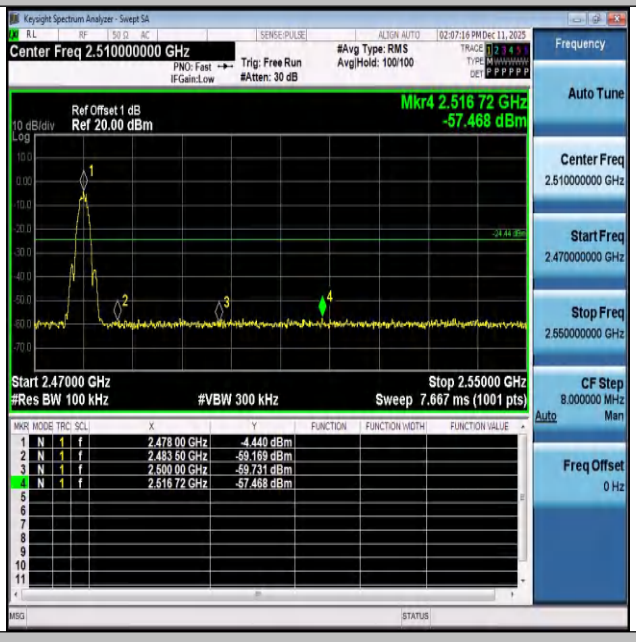


BLE_2M-Ant1-2404-PASS



BLE_2M-Ant1-2478-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	-3.38	-3.38	---	PASS
BLE_1M	Ant1	2402	30~1000	-3.38	-67.65	≤-23.38	PASS
BLE_1M	Ant1	2402	1000~26500	-3.38	-44.06	≤-23.38	PASS
BLE_1M	Ant1	2440	0~Reference	-1.89	-1.89	---	PASS
BLE_1M	Ant1	2440	30~1000	-1.89	-68.66	≤-21.89	PASS
BLE_1M	Ant1	2440	1000~26500	-1.89	-43.29	≤-21.89	PASS
BLE_1M	Ant1	2480	0~Reference	-3.60	-3.60	---	PASS
BLE_1M	Ant1	2480	30~1000	-3.60	-68.46	≤-23.6	PASS
BLE_1M	Ant1	2480	1000~26500	-3.60	-43.6	≤-23.6	PASS
BLE_2M	Ant1	2404	0~Reference	-3.58	-3.58	---	PASS
BLE_2M	Ant1	2404	30~1000	-3.58	-68.96	≤-23.58	PASS
BLE_2M	Ant1	2404	1000~26500	-3.58	-43.79	≤-23.58	PASS
BLE_2M	Ant1	2440	0~Reference	-2.95	-2.95	---	PASS
BLE_2M	Ant1	2440	30~1000	-2.95	-69.15	≤-22.95	PASS
BLE_2M	Ant1	2440	1000~26500	-2.95	-43.75	≤-22.95	PASS
BLE_2M	Ant1	2478	0~Reference	-4.17	-4.17	---	PASS
BLE_2M	Ant1	2478	30~1000	-4.17	-68.48	≤-24.17	PASS
BLE_2M	Ant1	2478	1000~26500	-4.17	-43.89	≤-24.17	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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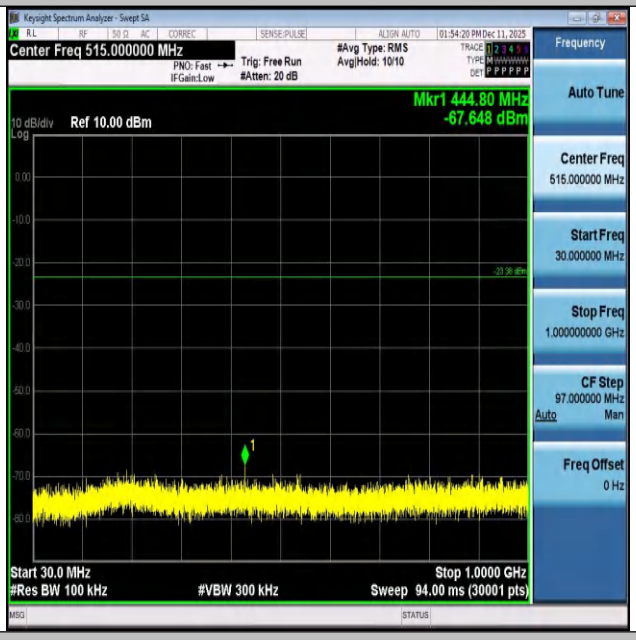
Test Graphs

BLE_1M-Ant1-2402-0~Reference-PASS



BLE_1M-Ant1-2402-30~1000-PASS

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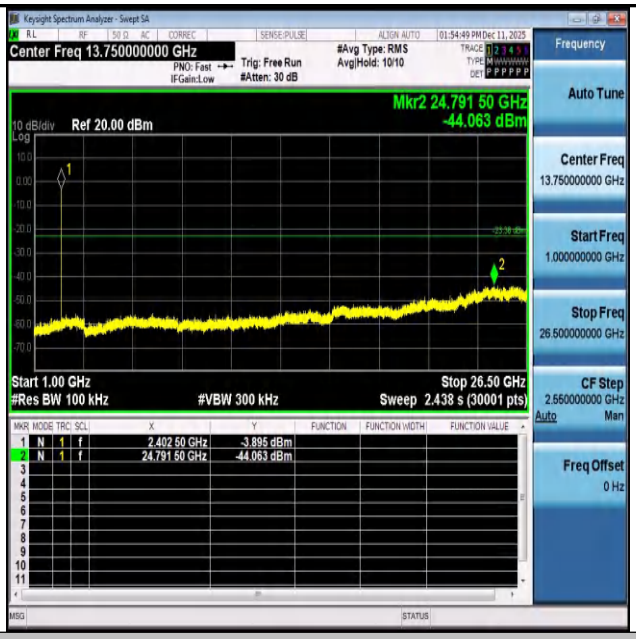

BLE_1M-Ant1-2402-1000~26500-PASS

BLE_1M-Ant1-2440-0~Reference-PASS

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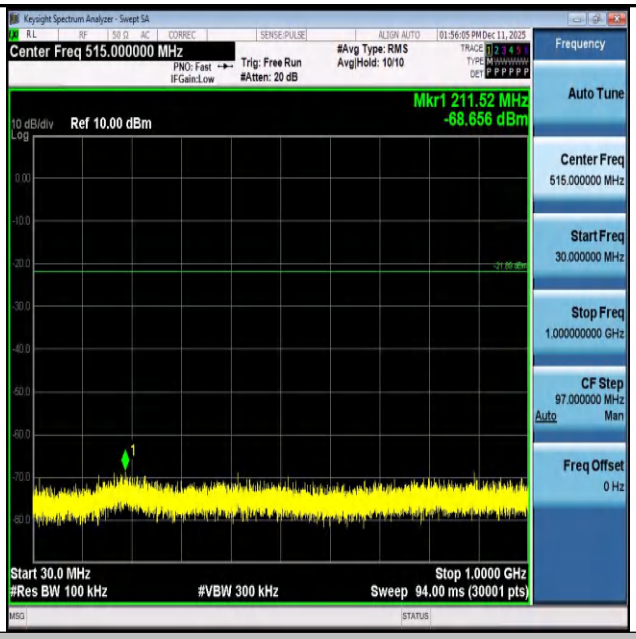
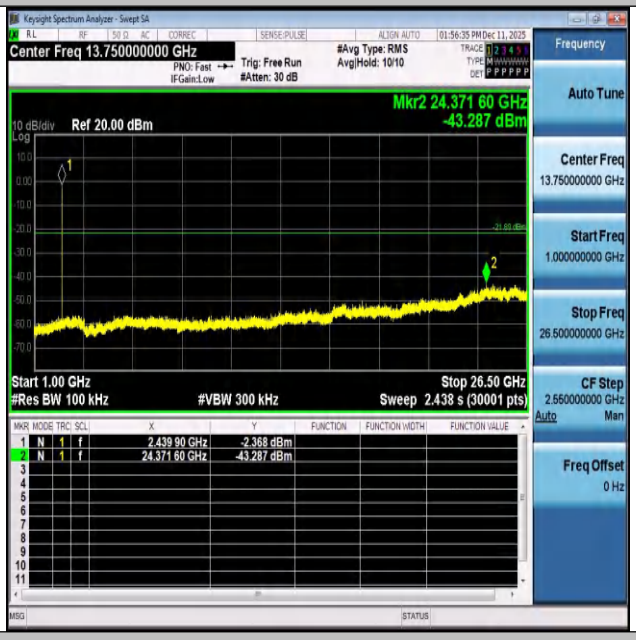


BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

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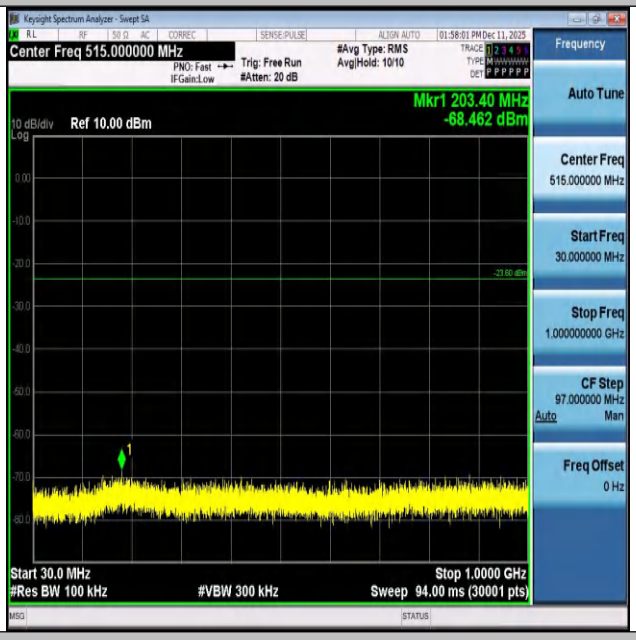
BLE_1M-Ant1-2480-0~Reference-PASS



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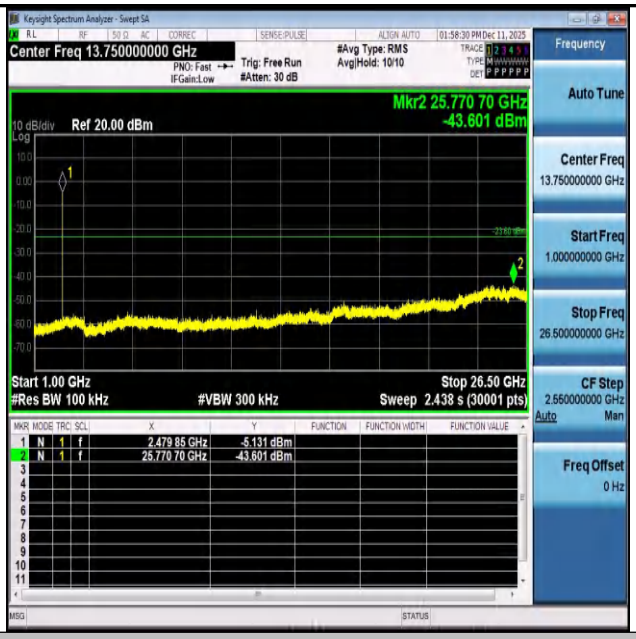

BLE_1M-Ant1-2480-1000~26500-PASS

BLE_2M-Ant1-2404-0~Reference-PASS

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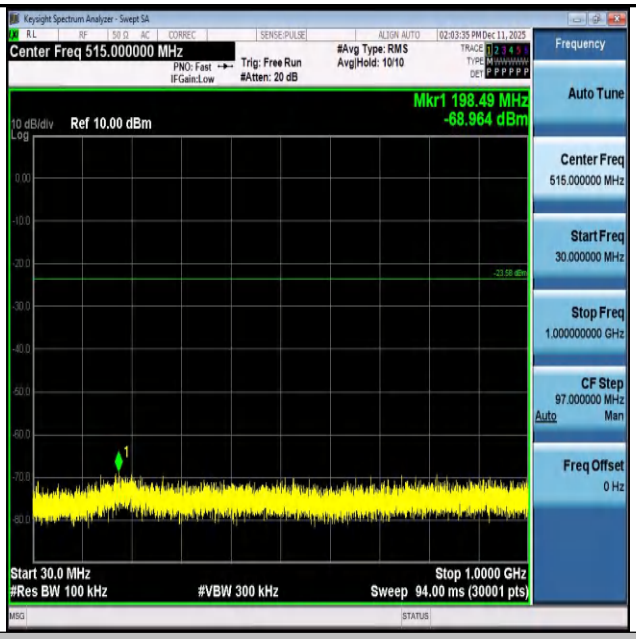

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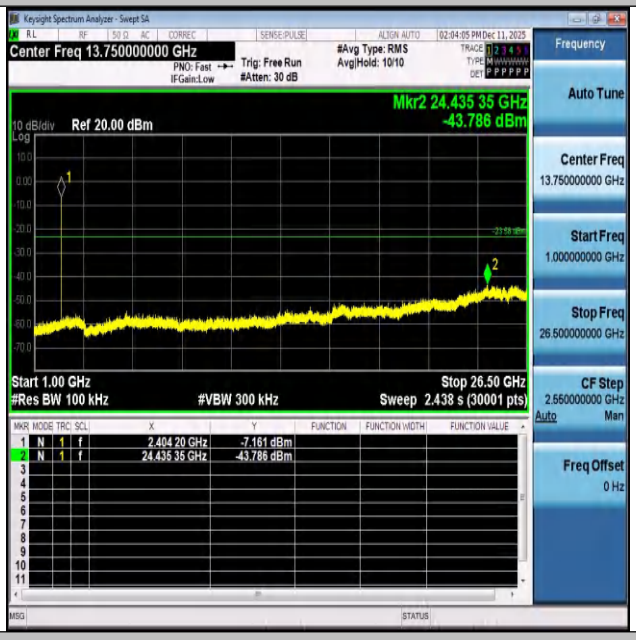

BLE_2M-Ant1-2404-1000~26500-PASS

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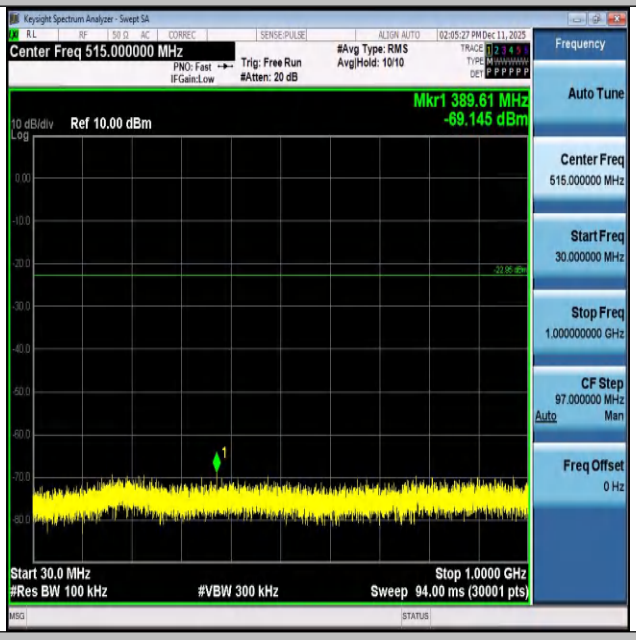
BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-PASS

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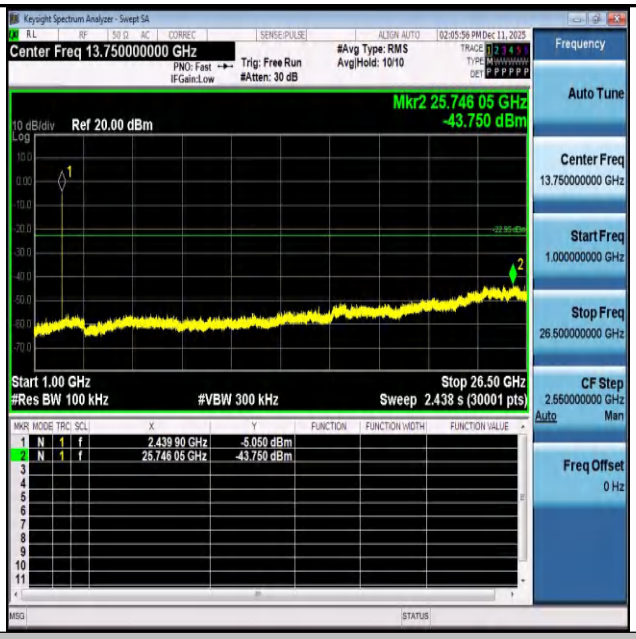

BLE_2M-Ant1-2440-1000~26500-PASS

BLE_2M-Ant1-2478-0~Reference-PASS

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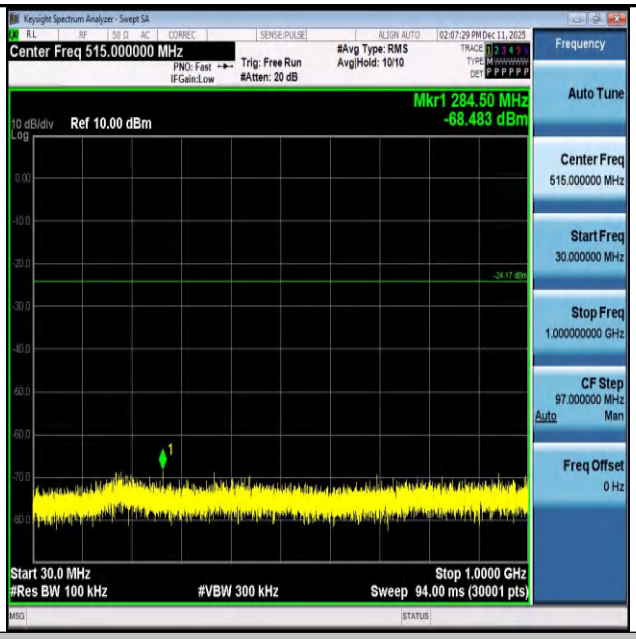

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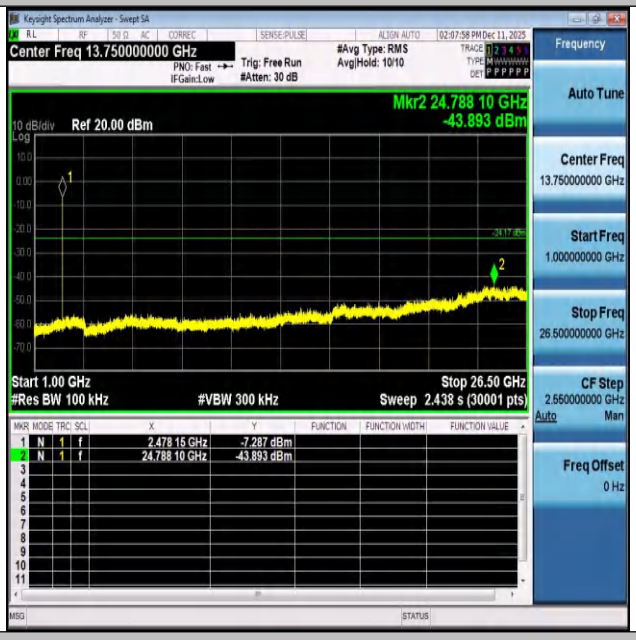

BLE_2M-Ant1-2478-1000~26500-PASS

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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	2.51	84.86	0.71
BLE_1M	Ant1	2480	2.12	2.49	85.14	0.70
BLE_2M	Ant1	2404	1.06	1.87	56.68	2.47
BLE_2M	Ant1	2440	1.07	1.88	56.91	2.45
BLE_2M	Ant1	2478	1.08	1.88	57.45	2.41

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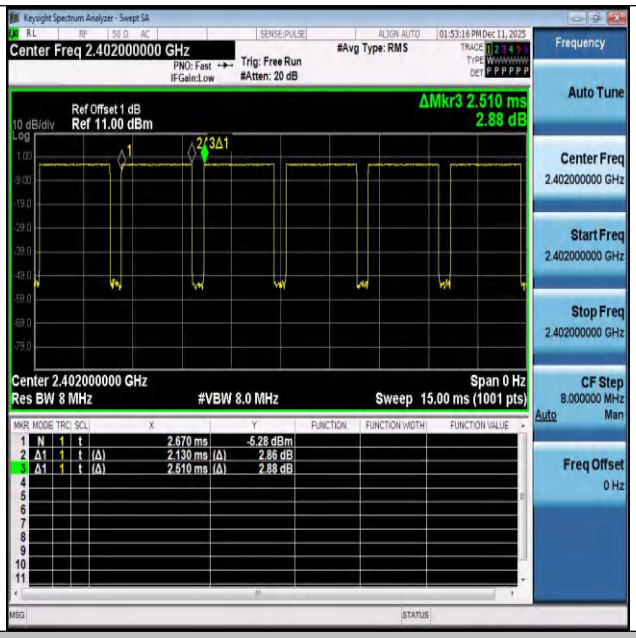
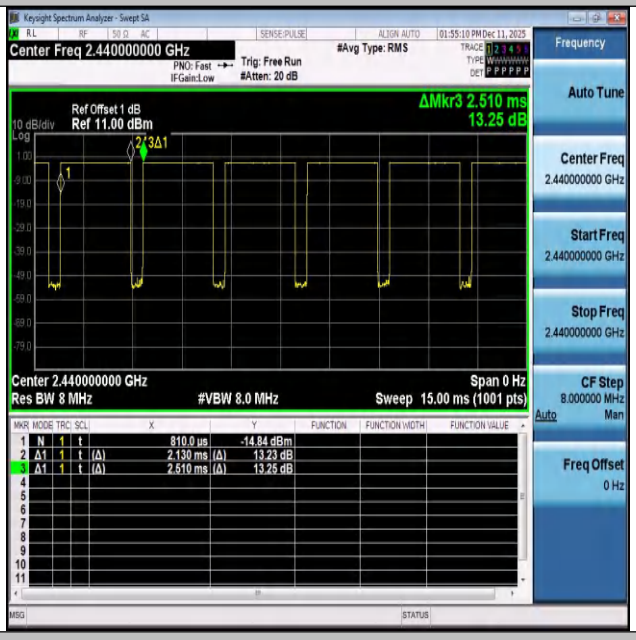
Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440

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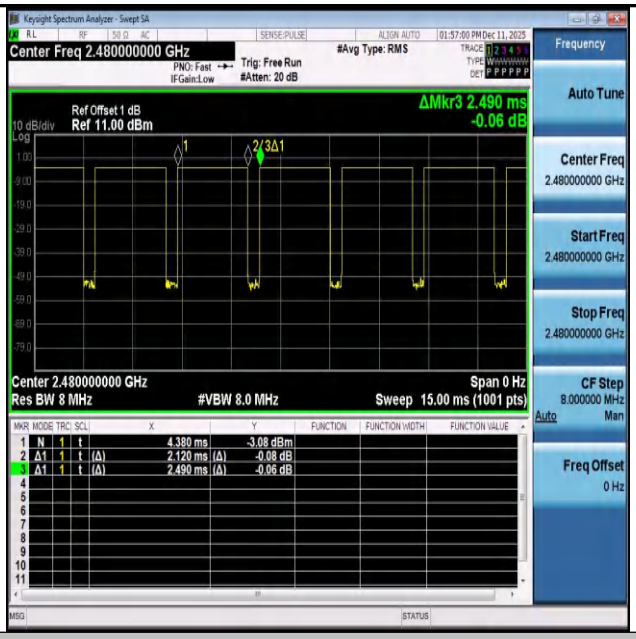

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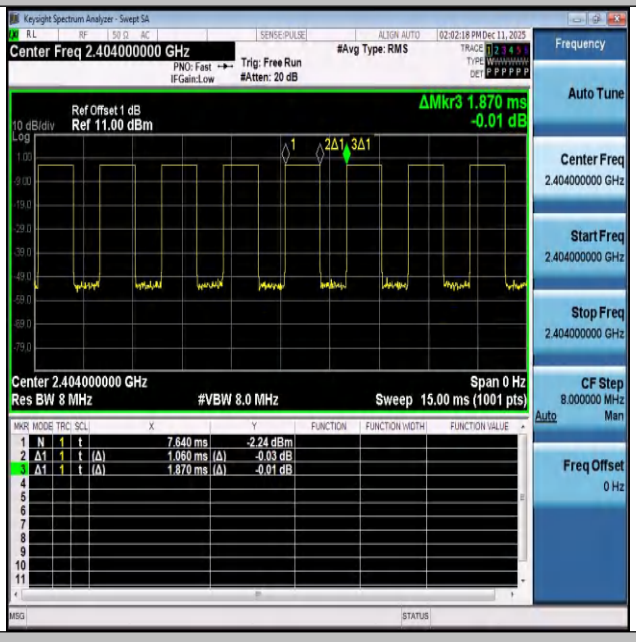

NTNV-BLE_2M-Ant1-2404

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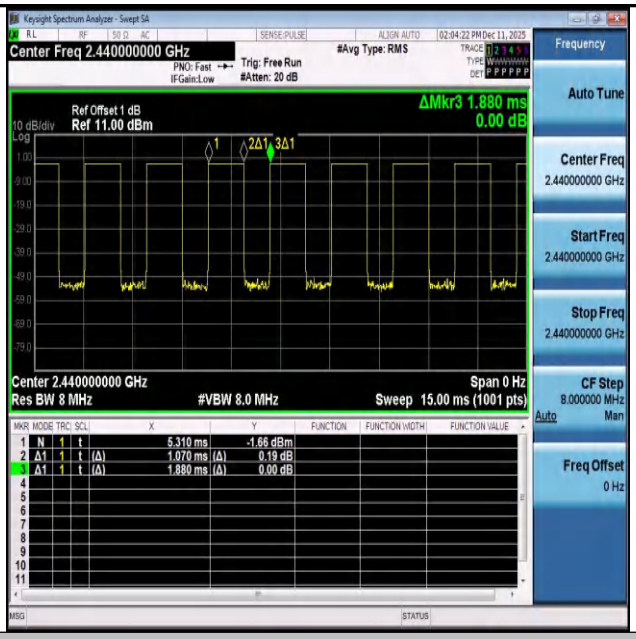

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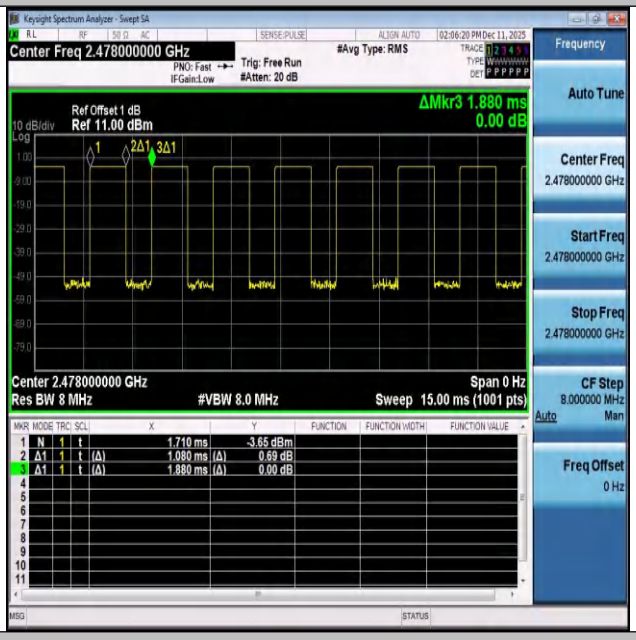

NTNV-BLE_2M-Ant1-2478

---End---

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