Appendix Test Data

Report No.:	1821C50033512501-01	Test Sample No.:	1-2-2
Start Test Date:	2025-12-4	Finish Test Date:	2025-12-5
Test Engineer:	Alex Reng	Auditor:	Justin Feng
Temperature:	24.4℃	Relative Humidity:	46%
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	2401.676	2402.340	0.5	PASS
BLE_1M	Ant1	2440	0.692	2439.664	2440.356	0.5	PASS
BLE_1M	Ant1	2480	0.660	2479.680	2480.340	0.5	PASS
BLE_2M	Ant1	2402	1.352	2401.372	2402.724	0.5	PASS
BLE_2M	Ant1	2440	1.356	2439.304	2440.660	0.5	PASS
BLE_2M	Ant1	2480	1.364	2479.292	2480.656	0.5	PASS

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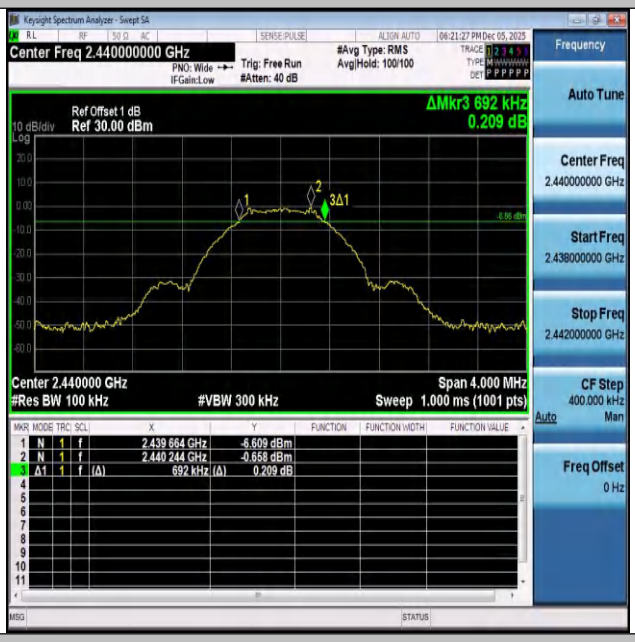
Test Graphs

BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS

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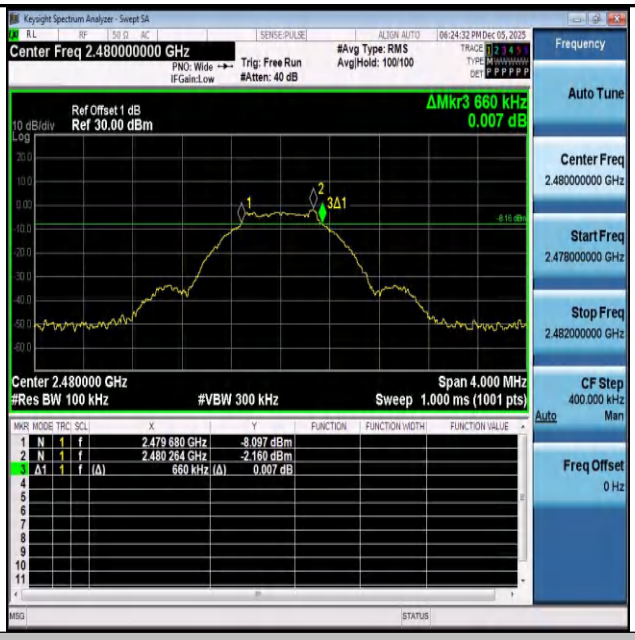
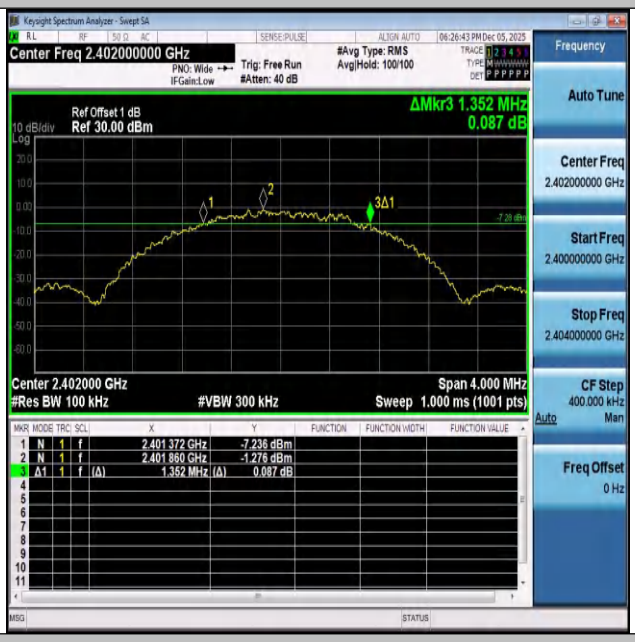


BLE_1M-Ant1-2480-PASS



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	1.0147	2401.4984	2402.5131	---	---
BLE_1M	Ant1	2440	1.0298	2439.4869	2440.5167	---	---
BLE_1M	Ant1	2480	1.0264	2479.4878	2480.5142	---	---
BLE_2M	Ant1	2402	2.0331	2400.9781	2403.0112	---	---
BLE_2M	Ant1	2440	2.0412	2438.9872	2441.0284	---	---
BLE_2M	Ant1	2480	2.0451	2478.9852	2481.0303	---	---

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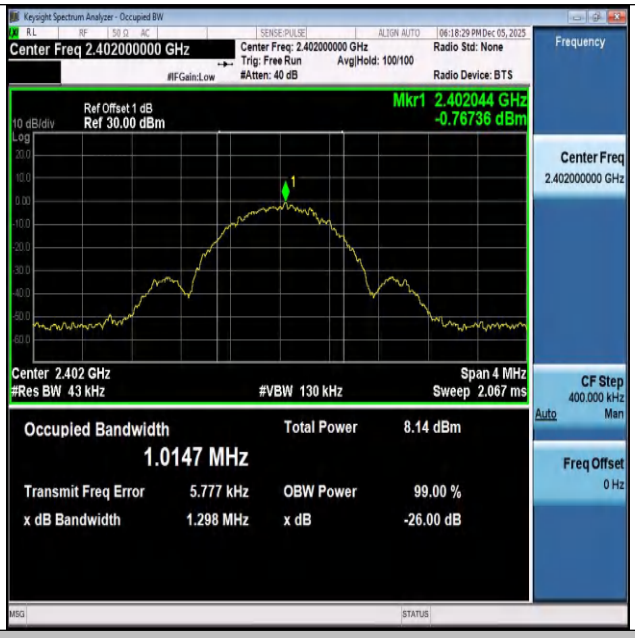
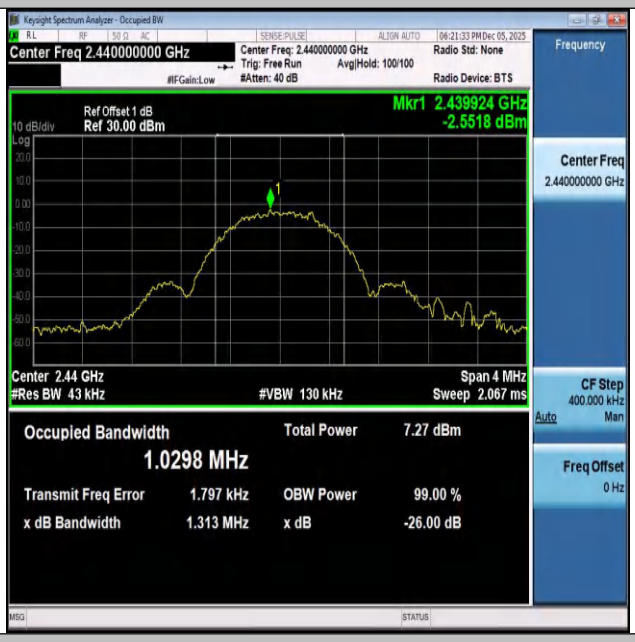
Test Graphs



BLE_1M-Ant1-2402



BLE_1M-Ant1-2440

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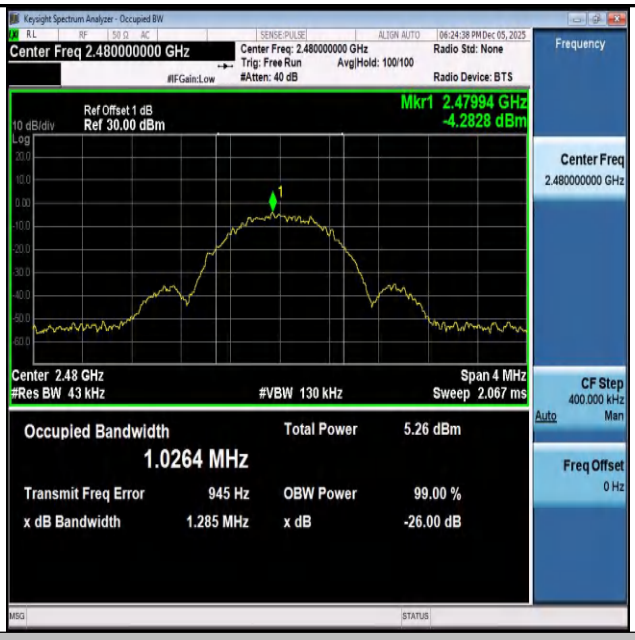
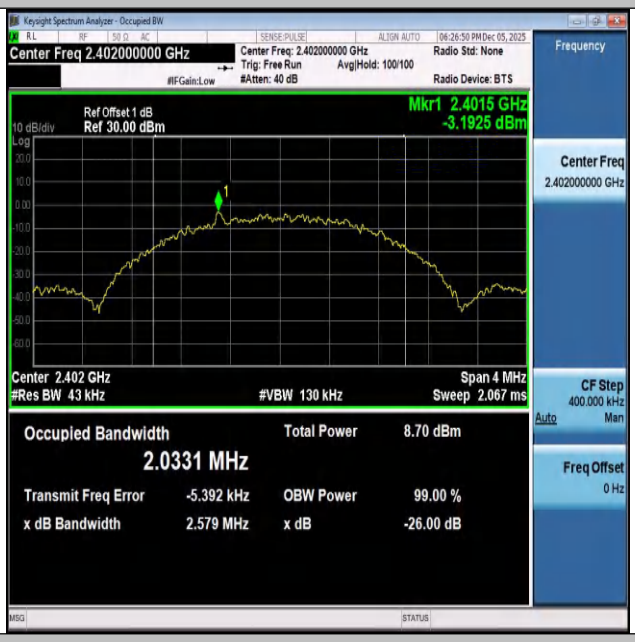


BLE_1M-Ant1-2480



BLE_2M-Ant1-2402

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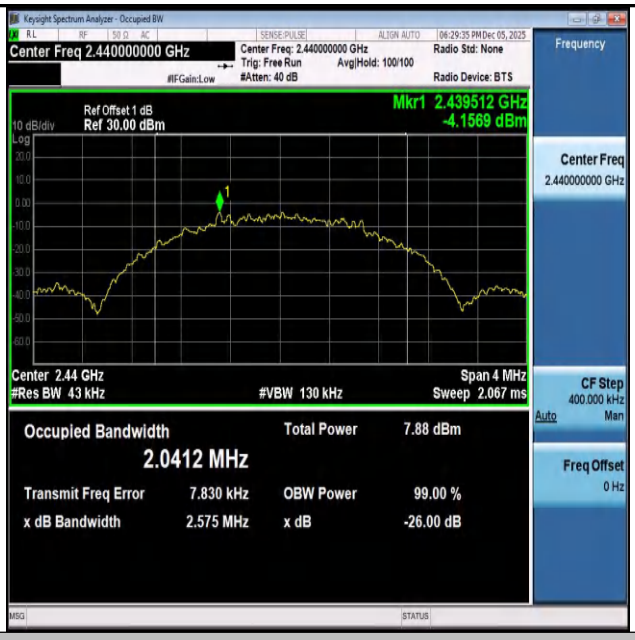
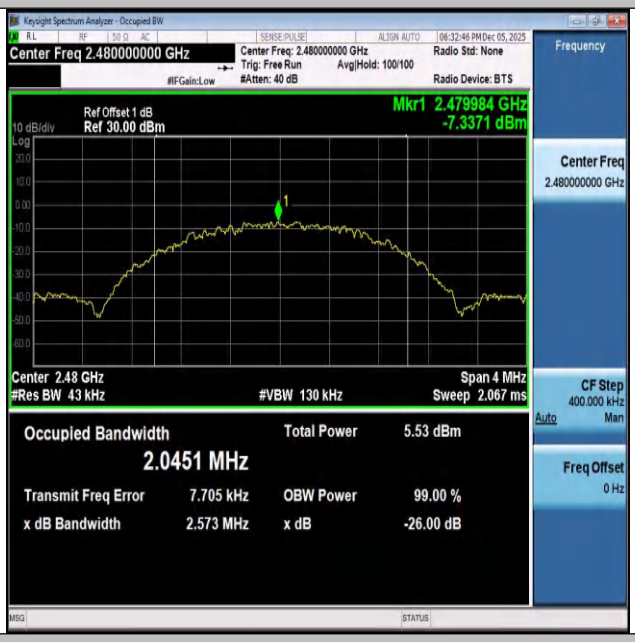


BLE_2M-Ant1-2440



BLE_2M-Ant1-2480

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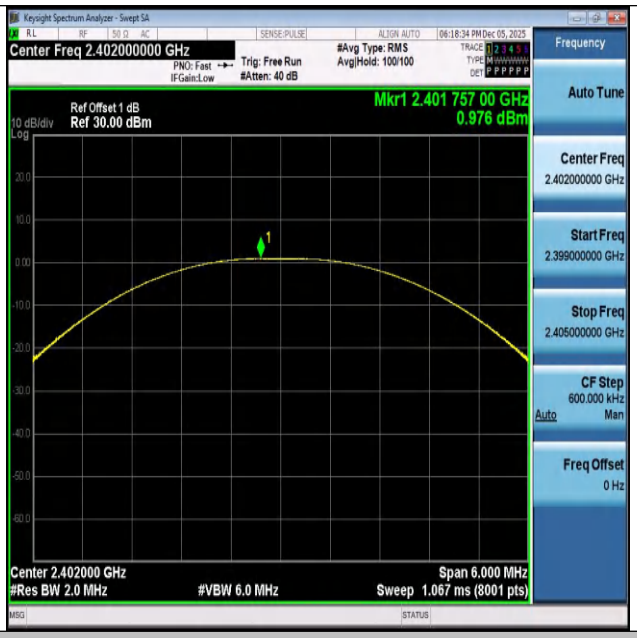
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	**0.98**	≤30	PASS
BLE_1M	Ant1	2440	0.18	≤30	PASS
BLE_1M	Ant1	2480	-1.79	≤30	PASS
BLE_2M	Ant1	2402	0.97	≤30	PASS
BLE_2M	Ant1	2440	0.10	≤30	PASS
BLE_2M	Ant1	2480	-1.78	≤30	PASS

Test Graphs Peak



BLE_1M-Ant1-2402-PASS

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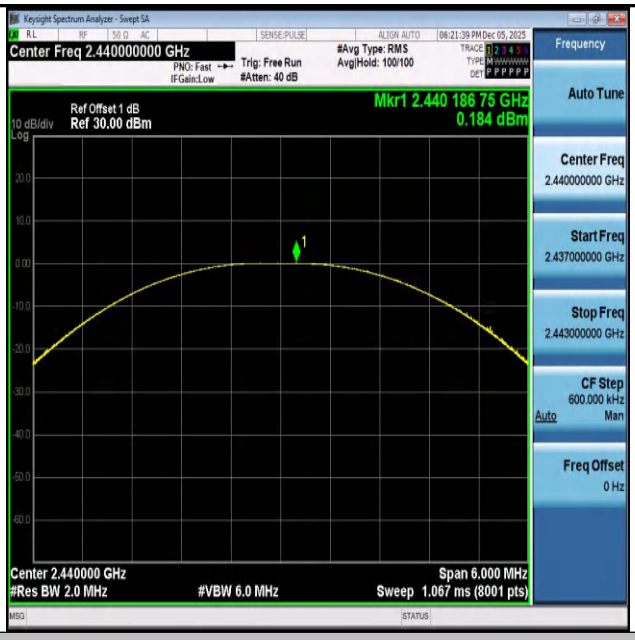
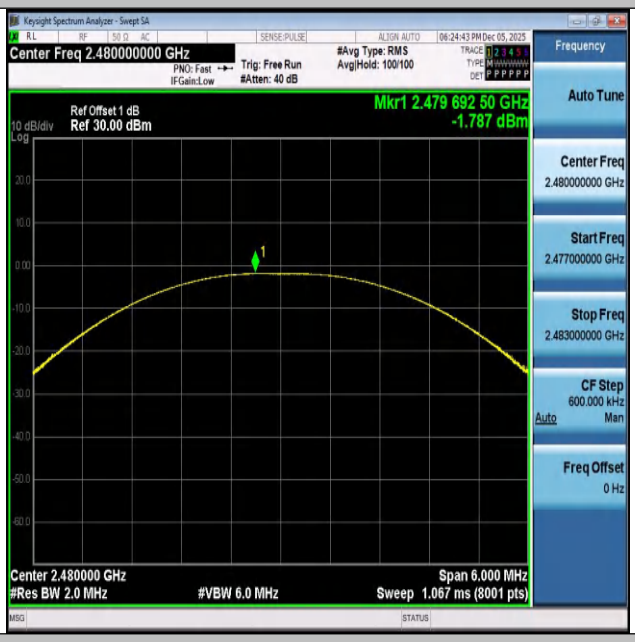


BLE_1M-Ant1-2440-PASS



BLE_1M-Ant1-2480-PASS

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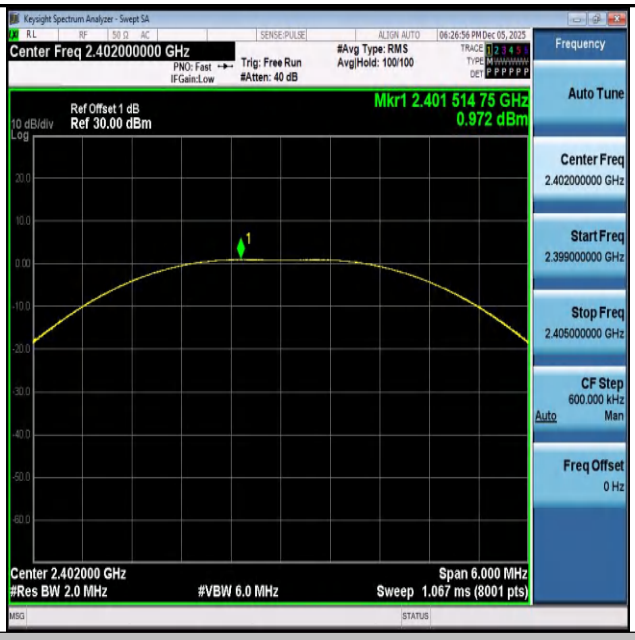
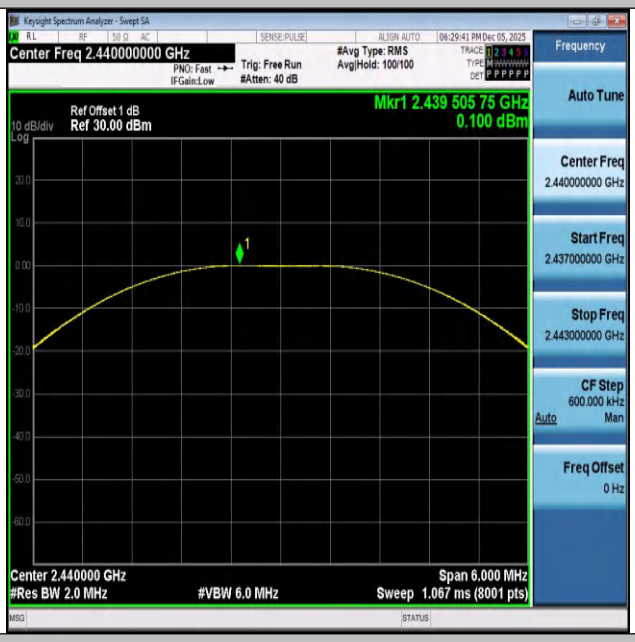


BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS

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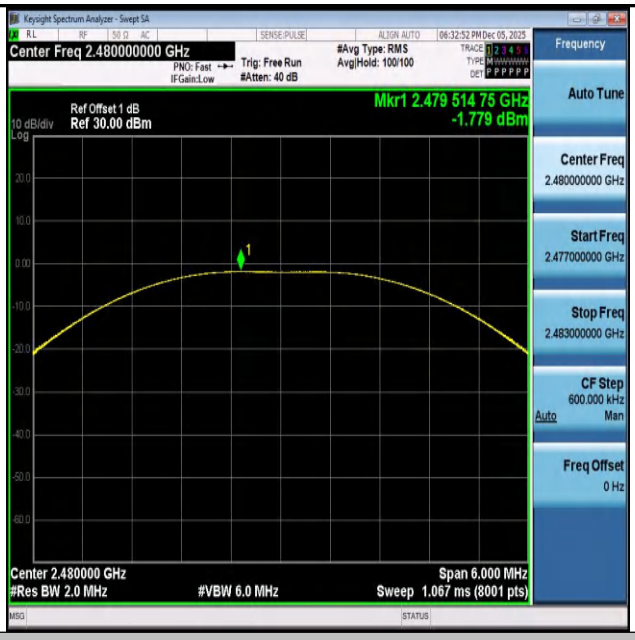

BLE_2M-Ant1-2480-PASS

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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	-8.39	≤8.00	PASS
BLE_1M	Ant1	2440	-10.18	≤8.00	PASS
BLE_1M	Ant1	2480	-11.09	≤8.00	PASS
BLE_2M	Ant1	2402	-12.04	≤8.00	PASS
BLE_2M	Ant1	2440	-13.11	≤8.00	PASS
BLE_2M	Ant1	2480	-14.99	≤8.00	PASS

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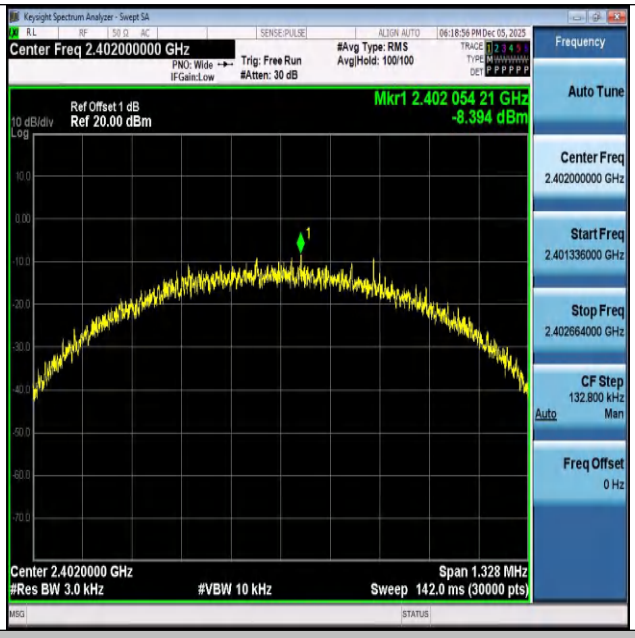
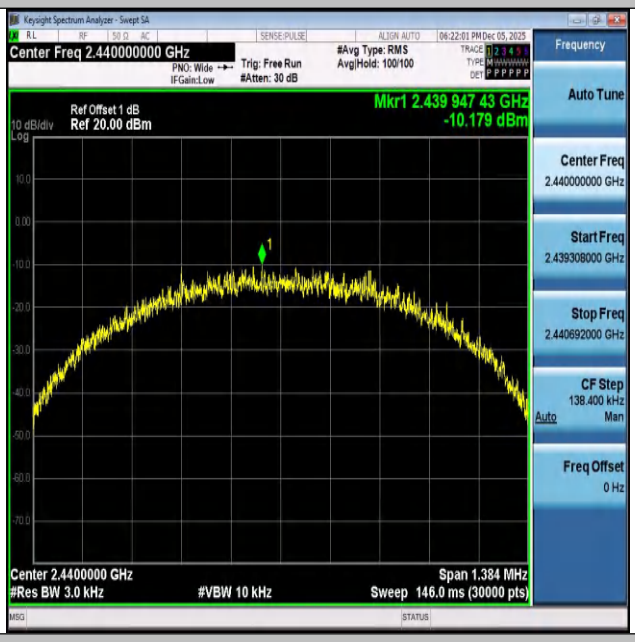
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS

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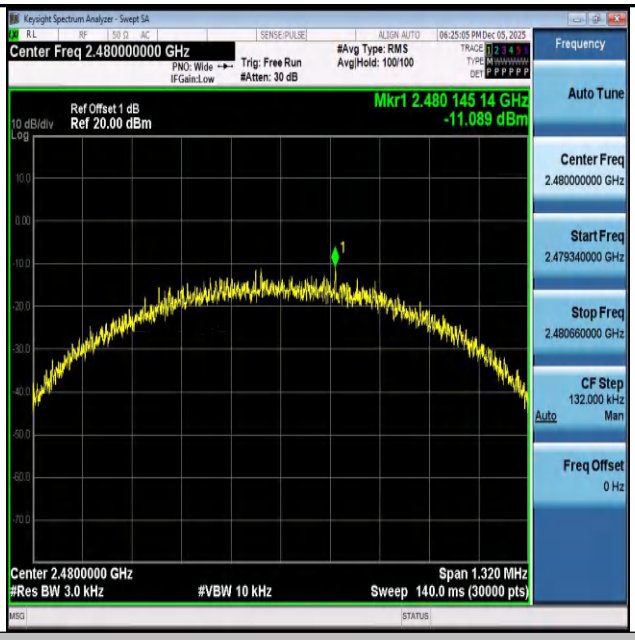
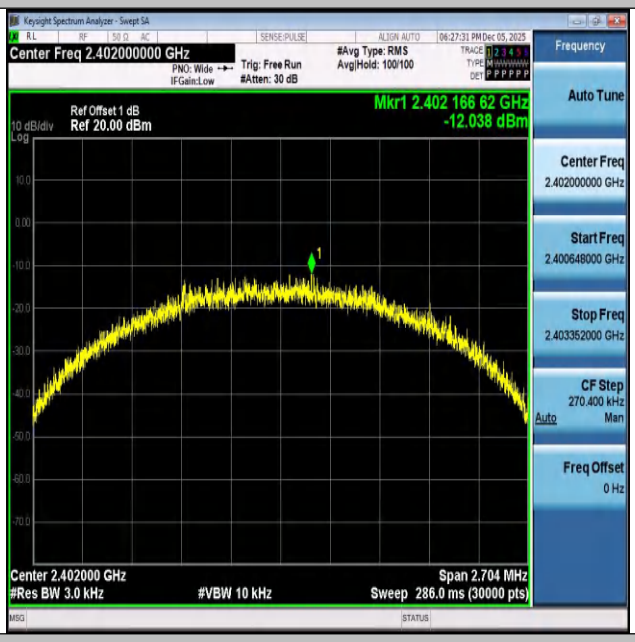


BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS

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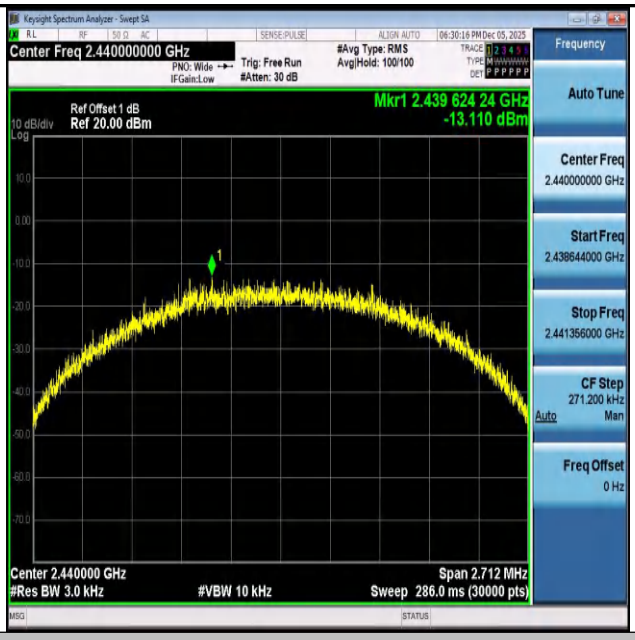
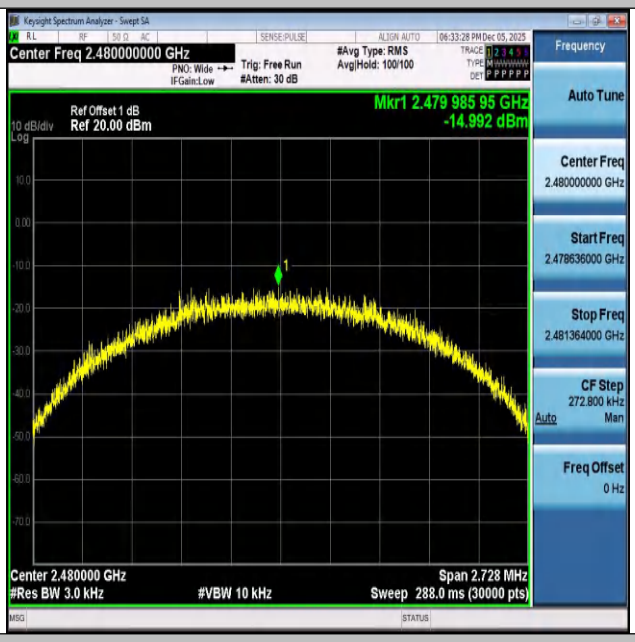


BLE_2M-Ant1-2440-PASS



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	0.72	-56.39	≤-19.29	PASS
BLE_1M	Ant1	High	2480	-2.28	-55.99	≤-22.28	PASS
BLE_2M	Ant1	Low	2402	-1.15	-33.89	≤-21.15	PASS
BLE_2M	Ant1	High	2480	-4.56	-56.52	≤-24.56	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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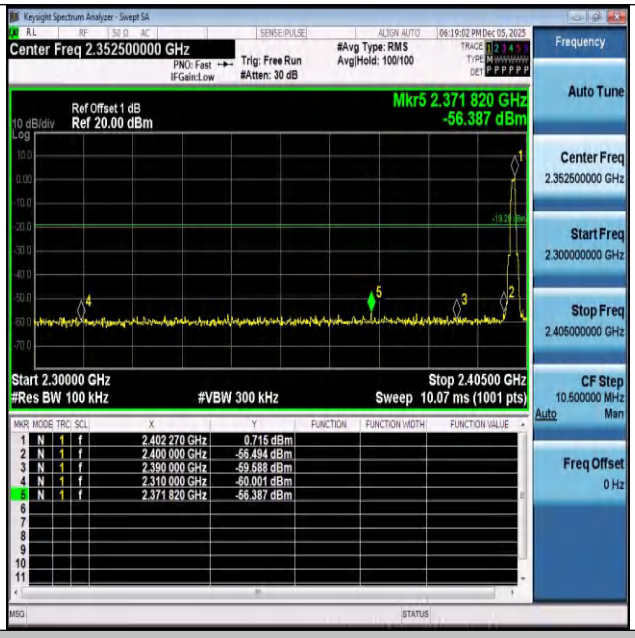
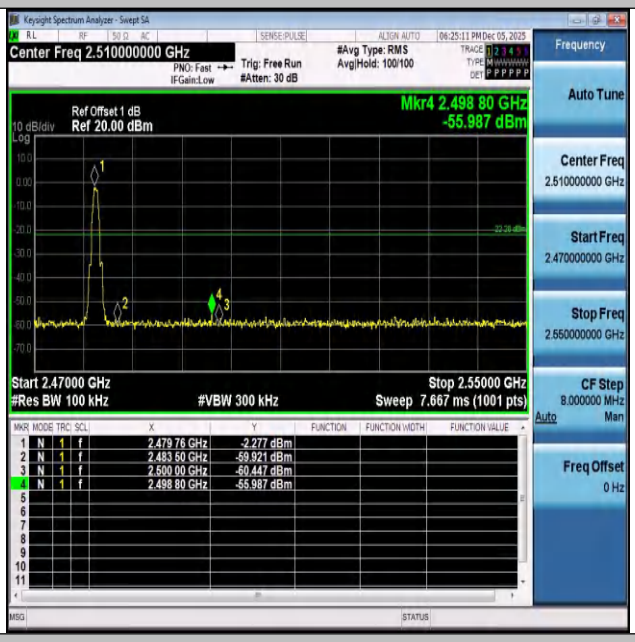
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS

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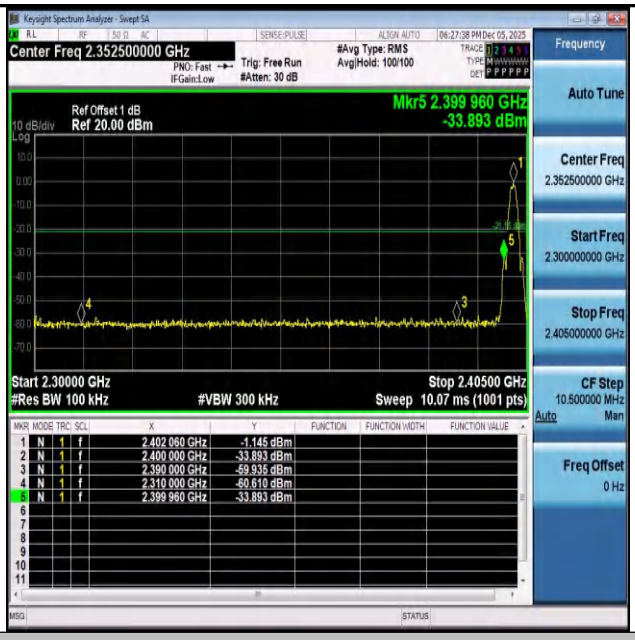
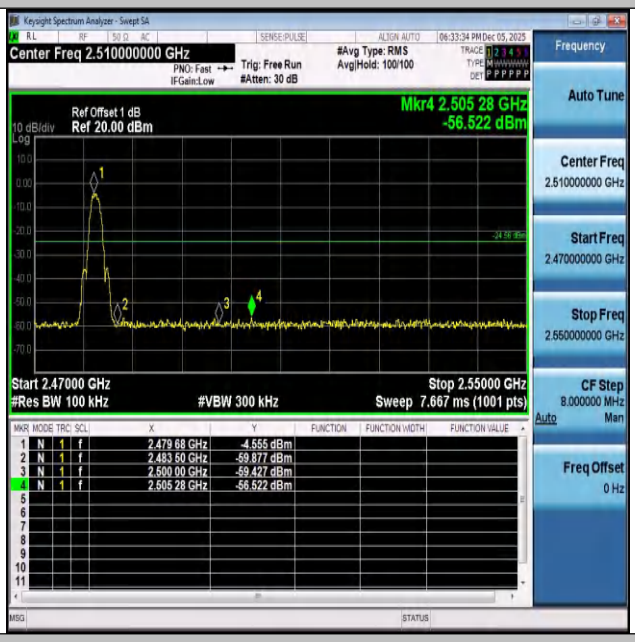


BLE_2M-Ant1-2402-PASS



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	0.50	0.50	---	PASS
BLE_1M	Ant1	2402	30~1000	0.50	-66.87	≤-19.5	PASS
BLE_1M	Ant1	2402	1000~26500	0.50	-44.08	≤-19.5	PASS
BLE_1M	Ant1	2440	0~Reference	-0.12	-0.12	---	PASS
BLE_1M	Ant1	2440	30~1000	-0.12	-67.08	≤-20.12	PASS
BLE_1M	Ant1	2440	1000~26500	-0.12	-46.39	≤-20.12	PASS
BLE_1M	Ant1	2480	0~Reference	-2.52	-2.52	---	PASS
BLE_1M	Ant1	2480	30~1000	-2.52	-68.5	≤-22.52	PASS
BLE_1M	Ant1	2480	1000~26500	-2.52	-48.6	≤-22.52	PASS
BLE_2M	Ant1	2402	0~Reference	-0.87	-0.87	---	PASS
BLE_2M	Ant1	2402	30~1000	-0.87	-68.19	≤-20.87	PASS
BLE_2M	Ant1	2402	1000~26500	-0.87	-46.68	≤-20.87	PASS
BLE_2M	Ant1	2440	0~Reference	-2.18	-2.18	---	PASS
BLE_2M	Ant1	2440	30~1000	-2.18	-67.97	≤-22.18	PASS
BLE_2M	Ant1	2440	1000~26500	-2.18	-47.56	≤-22.18	PASS
BLE_2M	Ant1	2480	0~Reference	-4.12	-4.12	---	PASS
BLE_2M	Ant1	2480	30~1000	-4.12	-68.25	≤-24.12	PASS
BLE_2M	Ant1	2480	1000~26500	-4.12	-49.97	≤-24.12	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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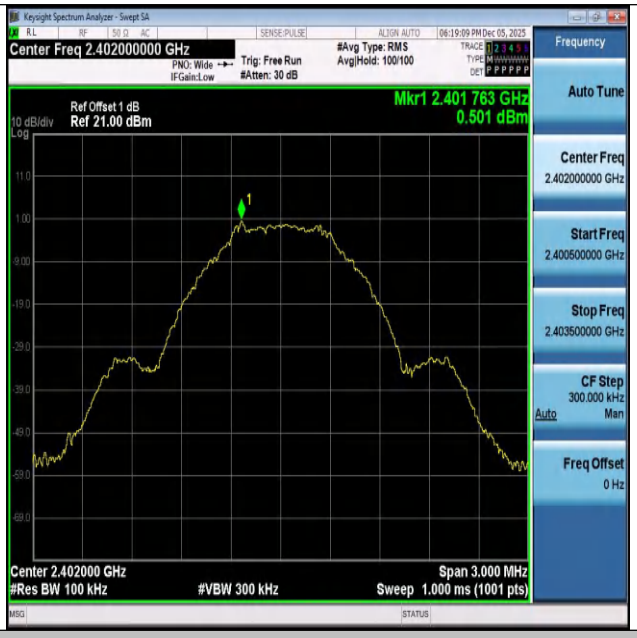
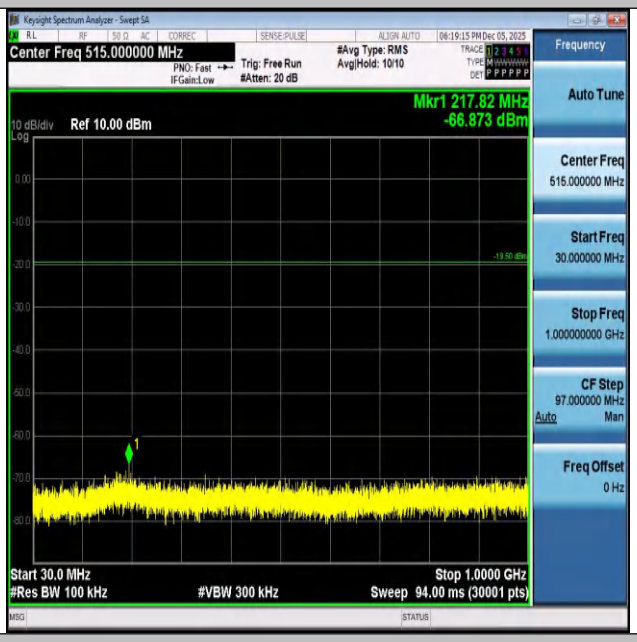
Test Graphs



BLE_1M-Ant1-2402-0~Reference-PASS



BLE_1M-Ant1-2402-30~1000-PASS

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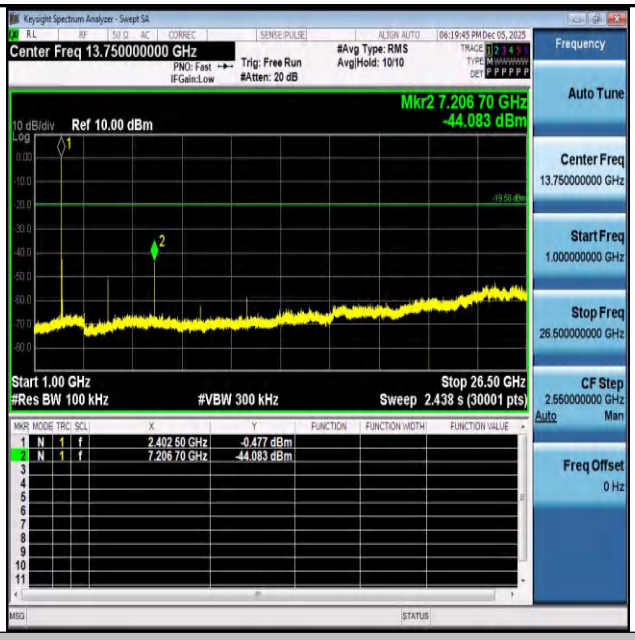

BLE_1M-Ant1-2402-1000~26500-PASS

BLE_1M-Ant1-2440-0~Reference-PASS

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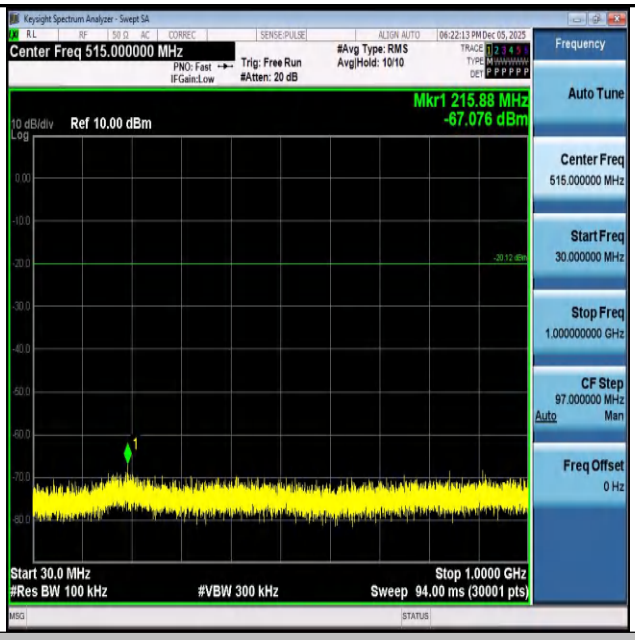
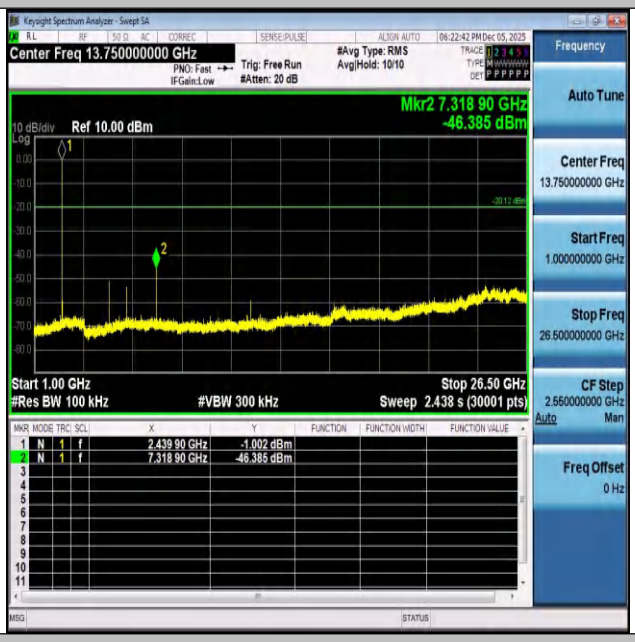


BLE_1M-Ant1-2440-30~1000-PASS



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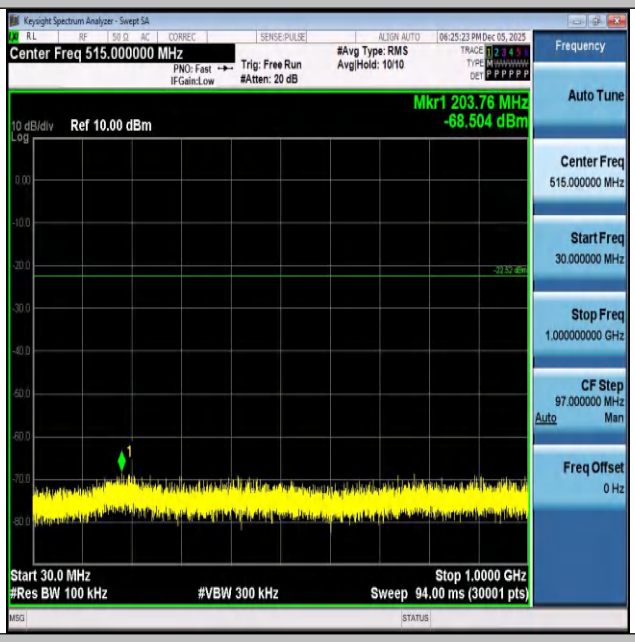
BLE_1M-Ant1-2480-0~Reference-PASS



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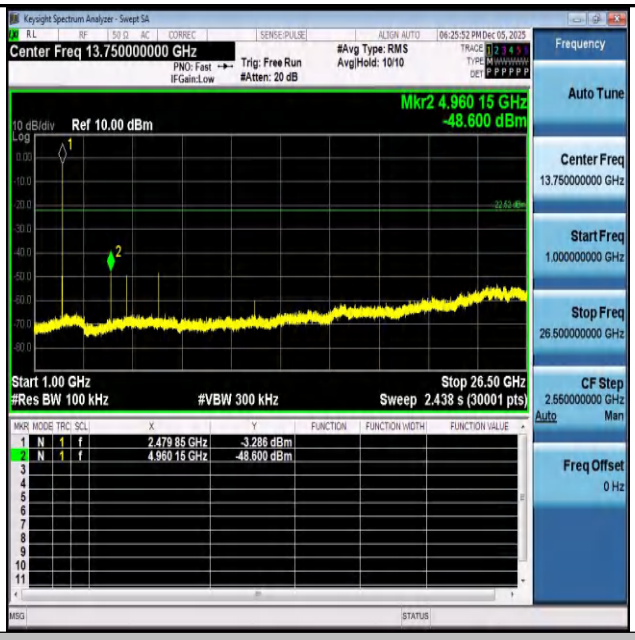

BLE_1M-Ant1-2480-1000~26500-PASS

BLE_2M-Ant1-2402-0~Reference-PASS

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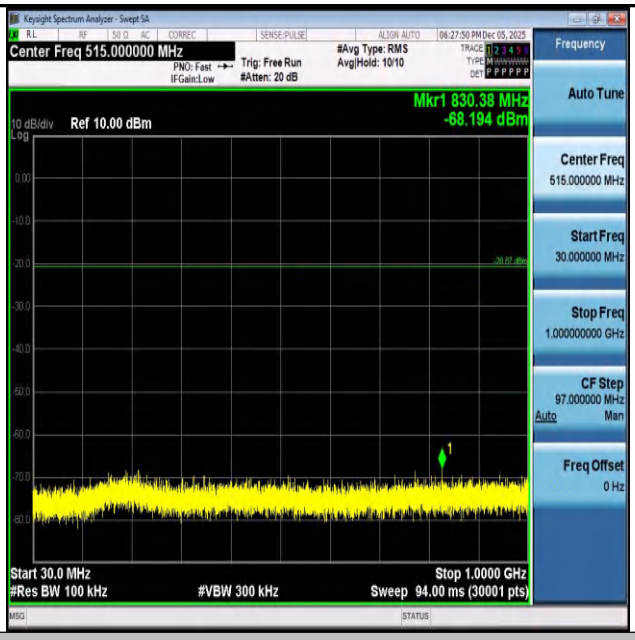

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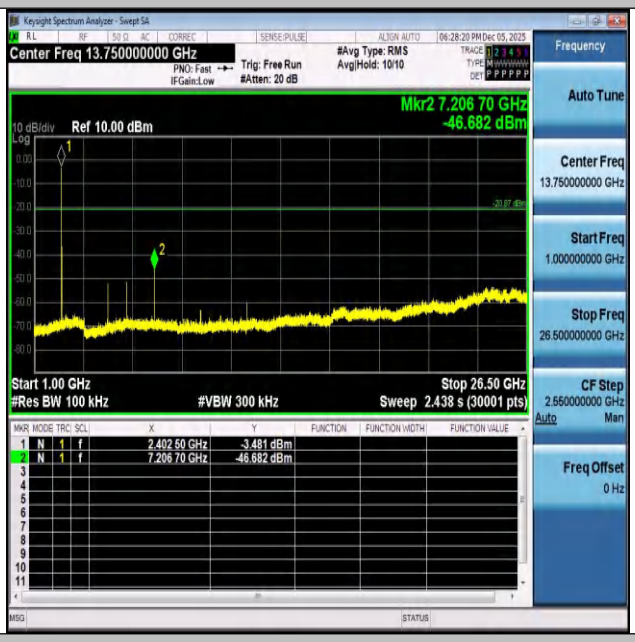

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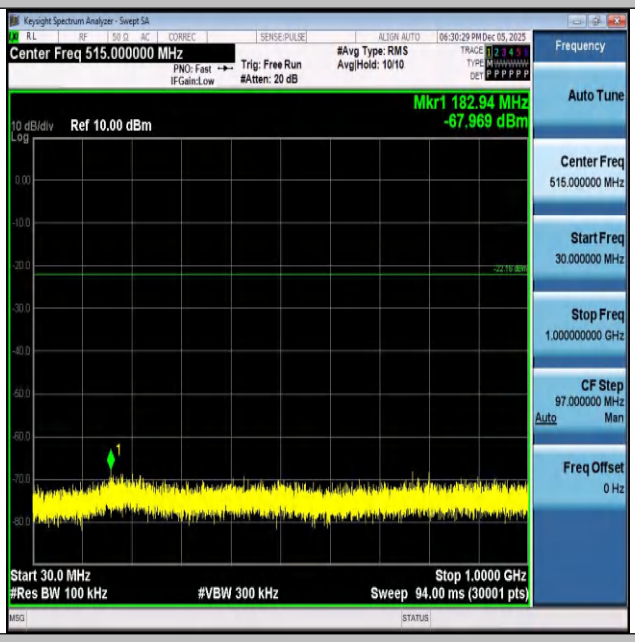

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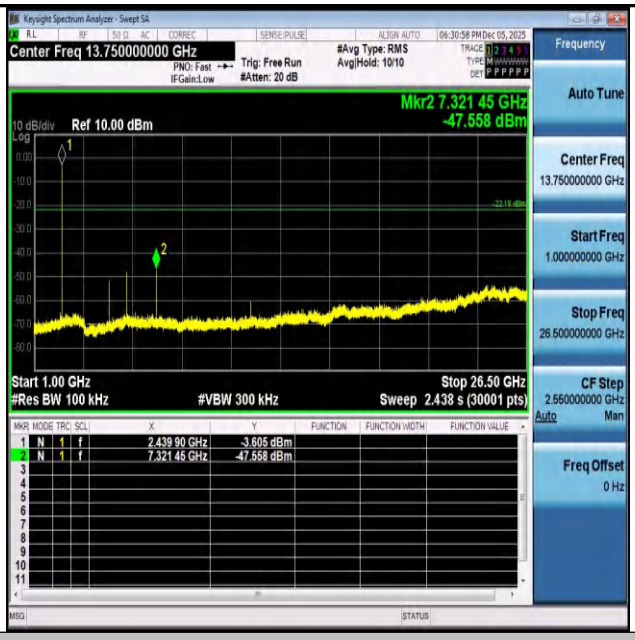

BLE_2M-Ant1-2440-1000~26500-PASS

BLE_2M-Ant1-2480-0~Reference-PASS

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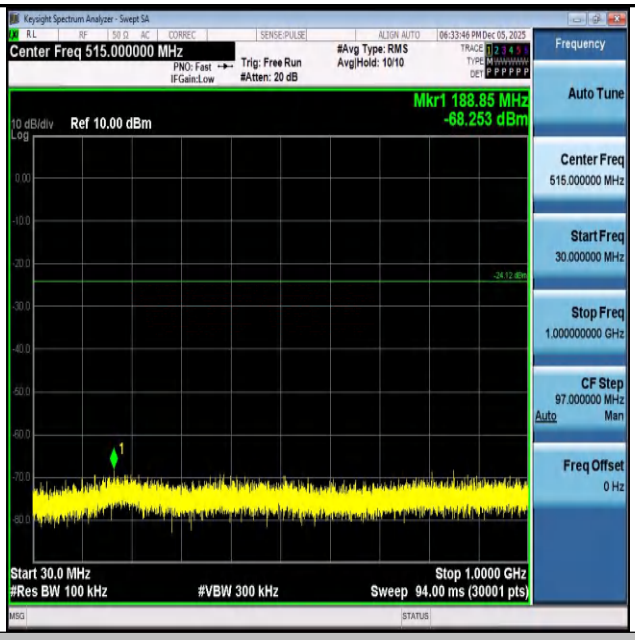

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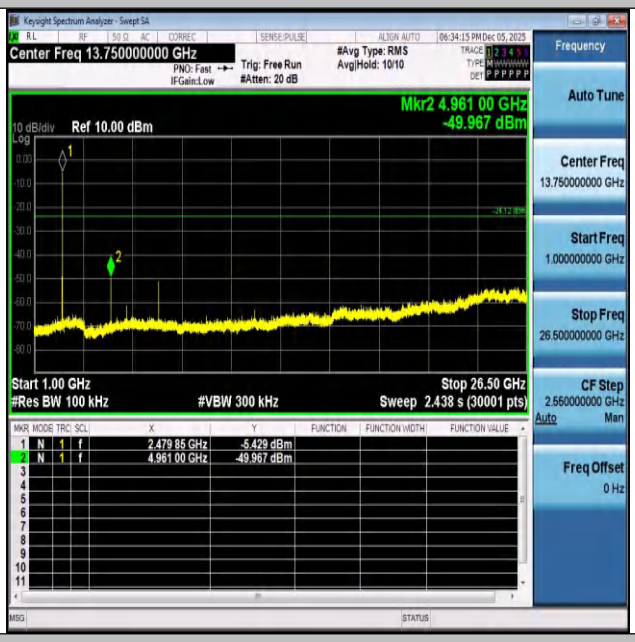

BLE_2M-Ant1-2480-1000~26500-PASS

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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	20.00	20.00	100.00	0.00
BLE_1M	Ant1	2440	20.00	20.00	100.00	0.00
BLE_1M	Ant1	2480	20.00	20.00	100.00	0.00
BLE_2M	Ant1	2402	20.00	20.00	100.00	0.00
BLE_2M	Ant1	2440	20.00	20.00	100.00	0.00
BLE_2M	Ant1	2480	20.00	20.00	100.00	0.00

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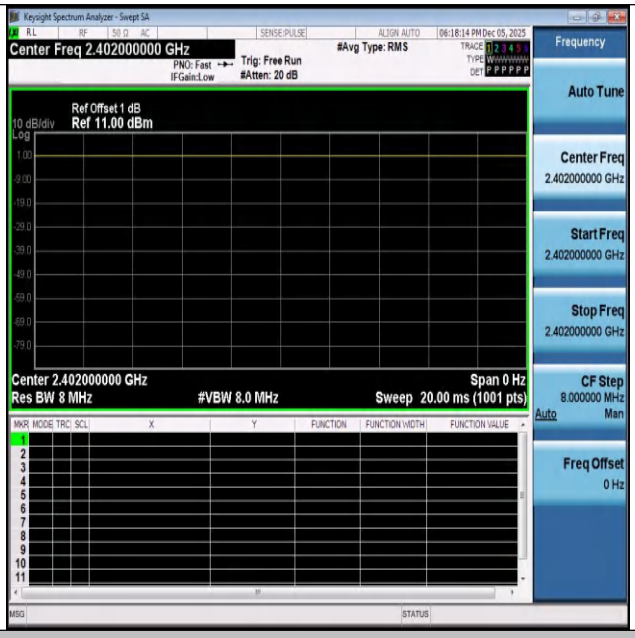
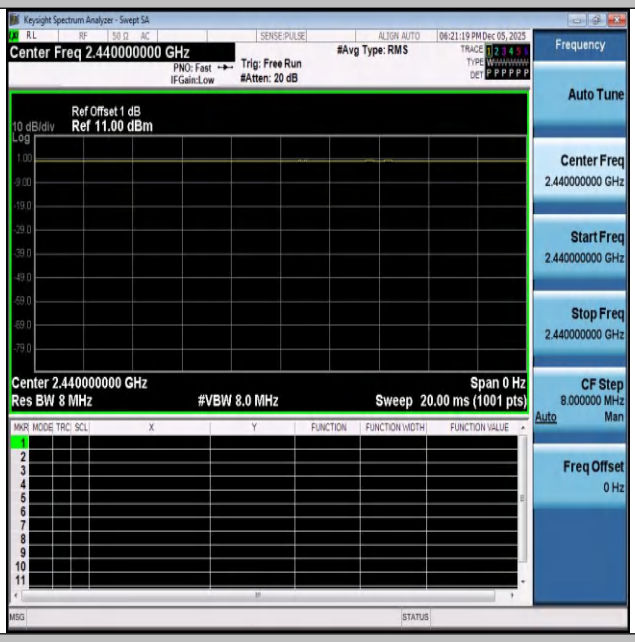
Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440

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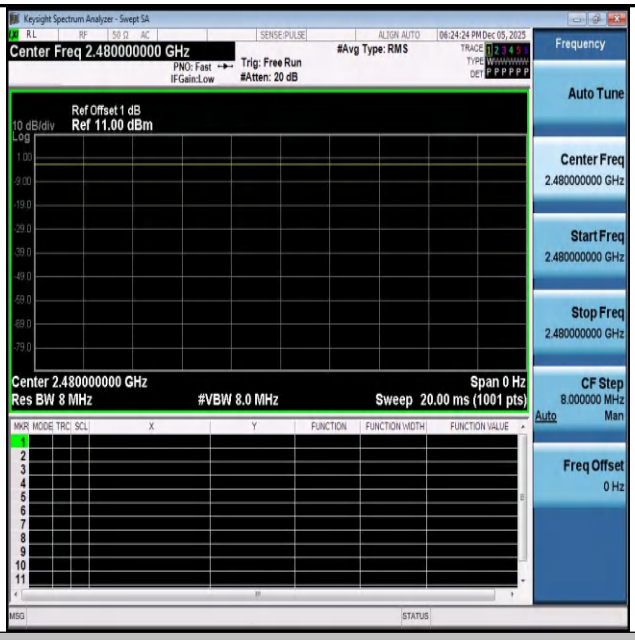
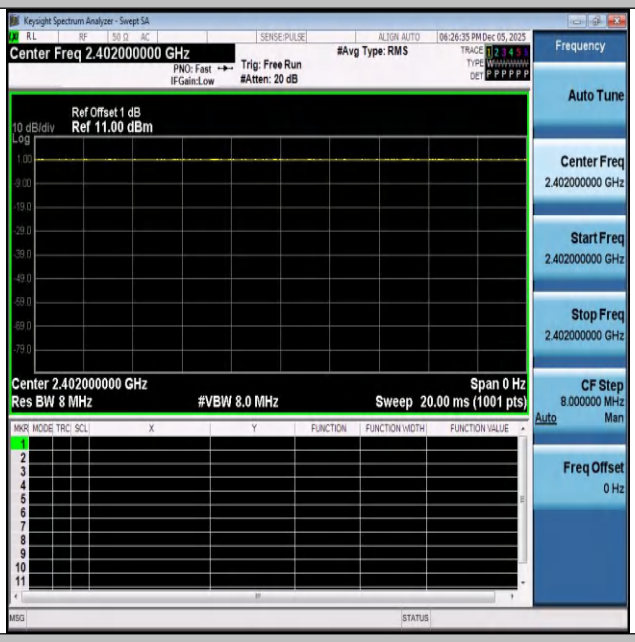


NTNV-BLE_1M-Ant1-2480



NTNV-BLE_2M-Ant1-2402

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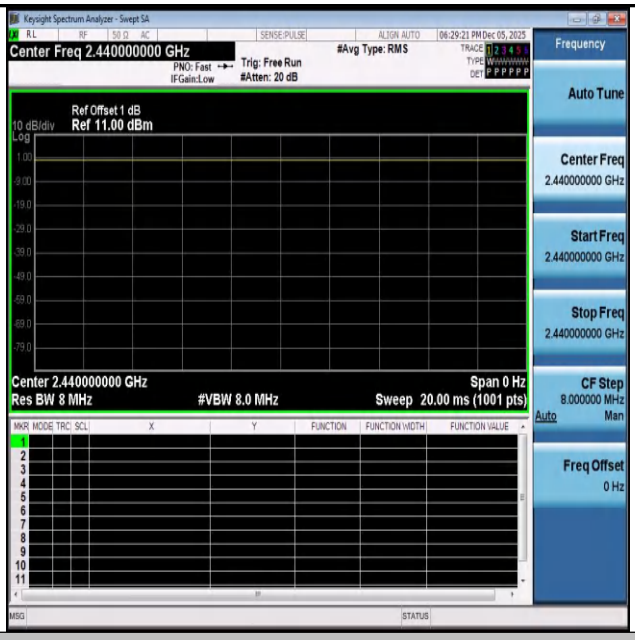

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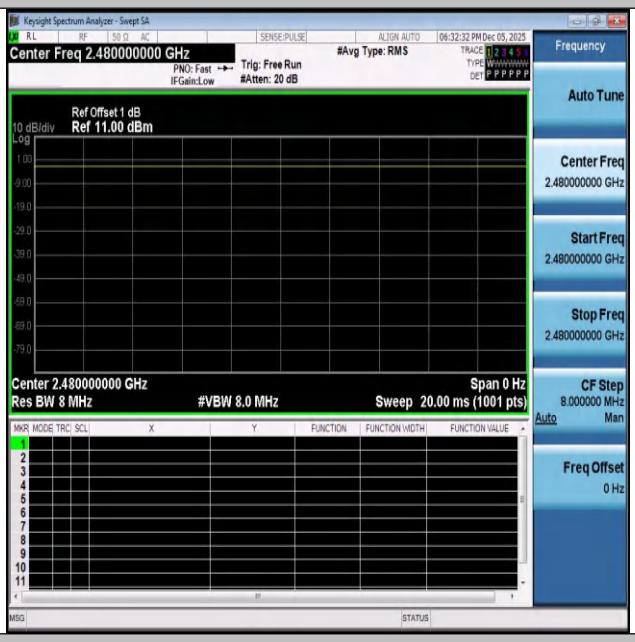

NTNV-BLE_2M-Ant1-2480

---End---

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