

Appendix Test Data

Report No.:	18360WC40005901	Test Sample No.:	1-2-2
Start Test Date:	2024.05.09	Finish Test Date:	2024.05.10
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.1°C	Relative Humidity:	46%
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	0.616	2401.680	2402.296	0.5	PASS
BLE_1M	Ant1	2440	0.668	2439.652	2440.320	0.5	PASS
BLE_1M	Ant1	2480	0.684	2479.644	2480.328	0.5	PASS
BLE_2M	Ant1	2402	1.136	2401.428	2402.564	0.5	PASS
BLE_2M	Ant1	2440	1.136	2439.436	2440.572	0.5	PASS
BLE_2M	Ant1	2480	1.260	2479.328	2480.588	0.5	PASS

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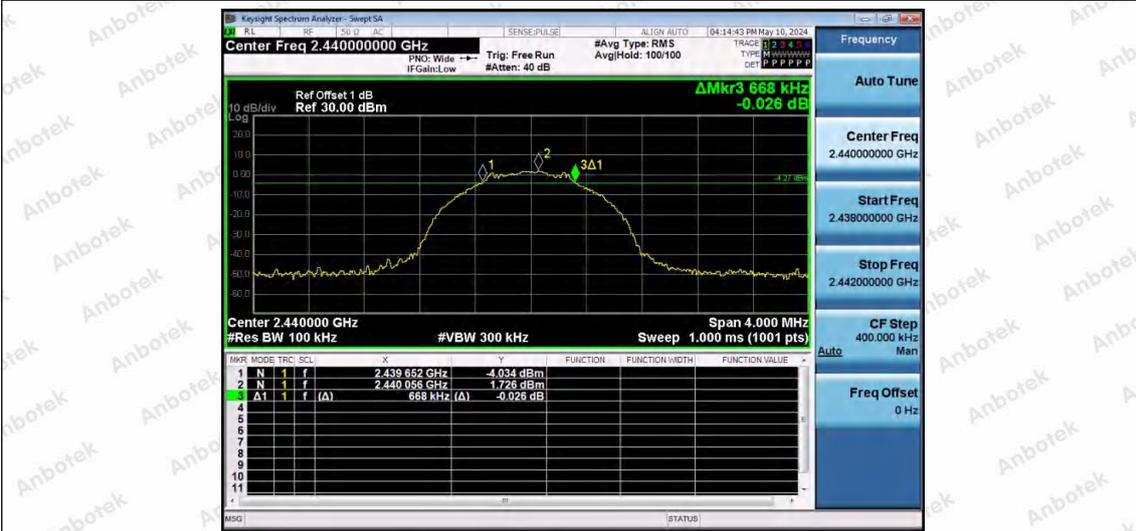
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Test Graphs



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	1.0730	2401.4516	2402.5246	---	---
BLE_1M	Ant1	2440	1.0709	2439.4554	2440.5263	---	---
BLE_1M	Ant1	2480	1.0675	2479.4569	2480.5244	---	---
BLE_2M	Ant1	2402	2.1112	2400.9423	2403.0535	---	---
BLE_2M	Ant1	2440	2.1091	2438.9434	2441.0525	---	---
BLE_2M	Ant1	2480	2.0974	2478.9550	2481.0524	---	---

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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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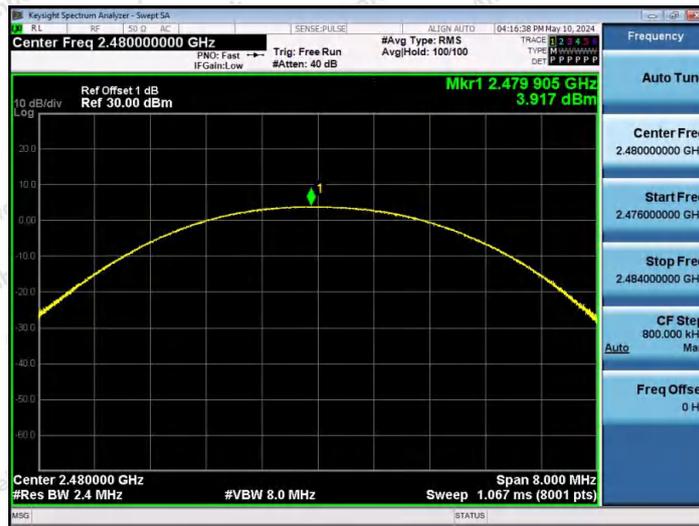
Appendix C: Maximum conducted output power

Test Result Peak

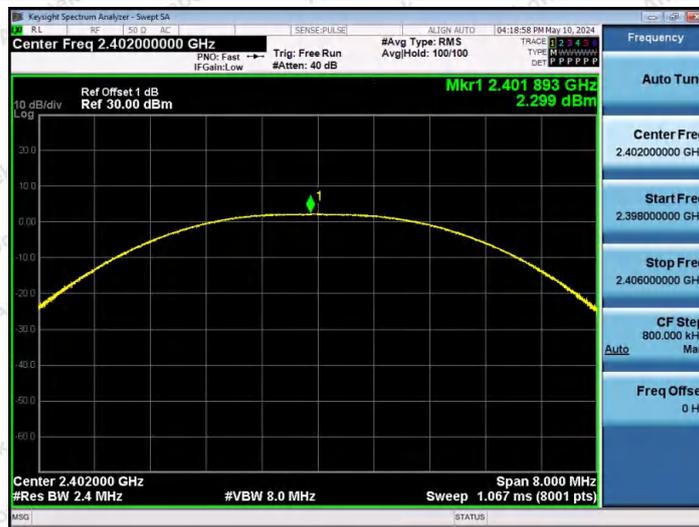
TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.59	≤30	PASS
BLE_1M	Ant1	2440	3.83	≤30	PASS
BLE_1M	Ant1	2480	3.92	≤30	PASS
BLE_2M	Ant1	2402	2.30	≤30	PASS
BLE_2M	Ant1	2440	3.45	≤30	PASS
BLE_2M	Ant1	2480	3.74	≤30	PASS

Test Graphs Peak





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	-13.00	≤8.00	PASS
BLE_1M	Ant1	2440	-11.78	≤8.00	PASS
BLE_1M	Ant1	2480	-11.66	≤8.00	PASS
BLE_2M	Ant1	2402	-14.98	≤8.00	PASS
BLE_2M	Ant1	2440	-13.69	≤8.00	PASS
BLE_2M	Ant1	2480	-13.63	≤8.00	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 E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.92	-52.85	≤-19.08	PASS
BLE_1M	Ant1	High	2480	2.32	-55.23	≤-17.68	PASS
BLE_2M	Ant1	Low	2402	-0.32	-49.18	≤-20.32	PASS
BLE_2M	Ant1	High	2480	3.34	-55.27	≤-16.66	PASS

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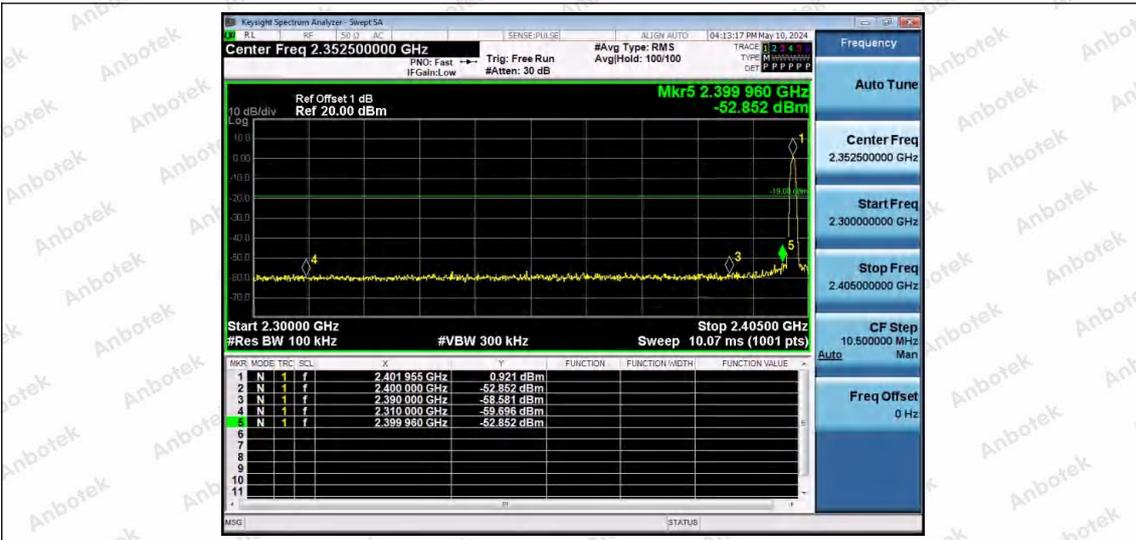
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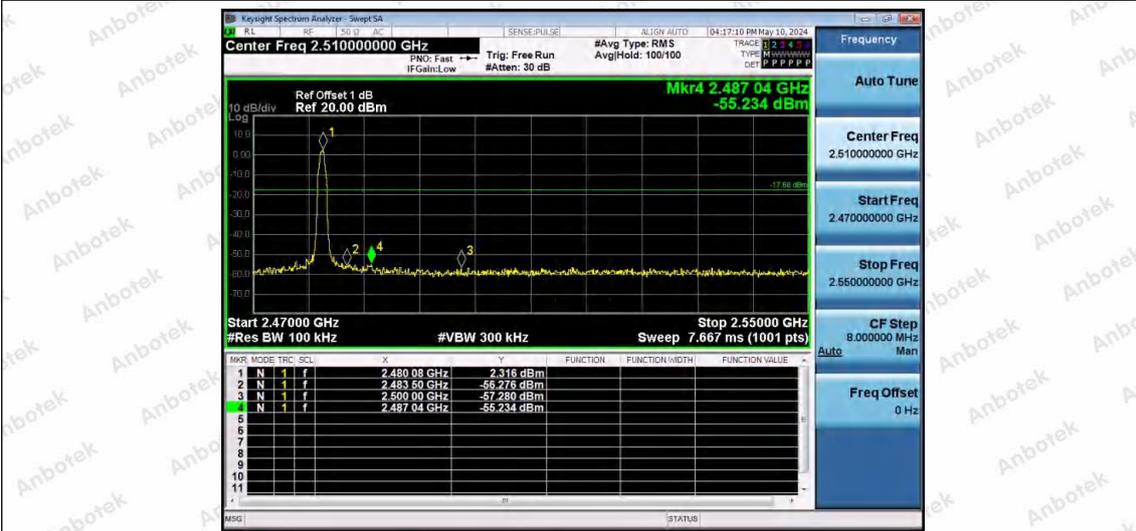
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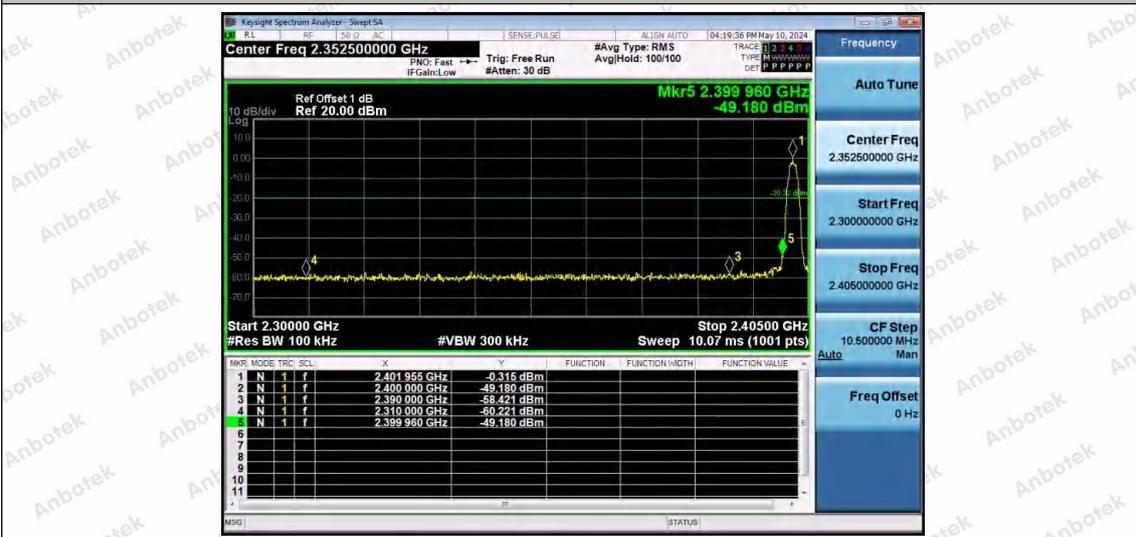
Test Graphs



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



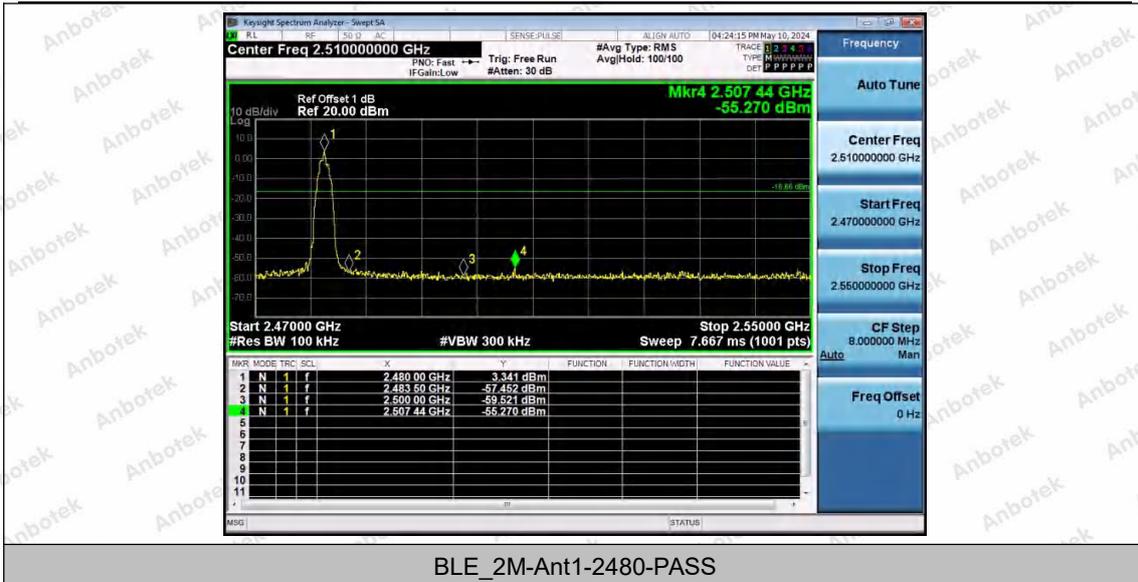
BLE_2M-Ant1-2402-PASS

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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	1.95	1.95	---	PASS
BLE_1M	Ant1	2402	30~1000	1.95	-68.21	≤-18.05	PASS
BLE_1M	Ant1	2402	1000~26500	1.95	-53.9	≤-18.05	PASS
BLE_1M	Ant1	2440	0~Reference	1.91	1.91	---	PASS
BLE_1M	Ant1	2440	30~1000	1.91	-68.78	≤-18.09	PASS
BLE_1M	Ant1	2440	1000~26500	1.91	-53.27	≤-18.09	PASS
BLE_1M	Ant1	2480	0~Reference	3.07	3.07	---	PASS
BLE_1M	Ant1	2480	30~1000	3.07	-68.36	≤-16.93	PASS
BLE_1M	Ant1	2480	1000~26500	3.07	-53.59	≤-16.93	PASS
BLE_2M	Ant1	2402	0~Reference	1.92	1.92	---	PASS
BLE_2M	Ant1	2402	30~1000	1.92	-68.76	≤-18.08	PASS
BLE_2M	Ant1	2402	1000~26500	1.92	-52.67	≤-18.08	PASS
BLE_2M	Ant1	2440	0~Reference	3.17	3.17	---	PASS
BLE_2M	Ant1	2440	30~1000	3.17	-68.44	≤-16.83	PASS
BLE_2M	Ant1	2440	1000~26500	3.17	-53.77	≤-16.83	PASS
BLE_2M	Ant1	2480	0~Reference	3.37	3.37	---	PASS
BLE_2M	Ant1	2480	30~1000	3.37	-68.38	≤-16.63	PASS
BLE_2M	Ant1	2480	1000~26500	3.37	-53.37	≤-16.63	PASS

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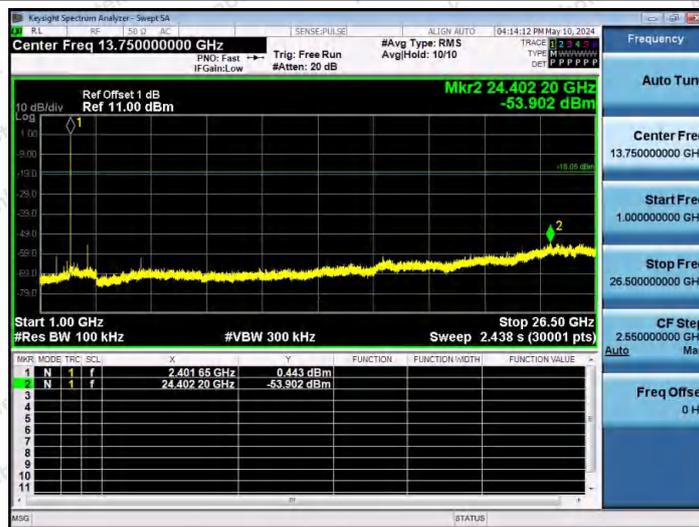
Test Graphs



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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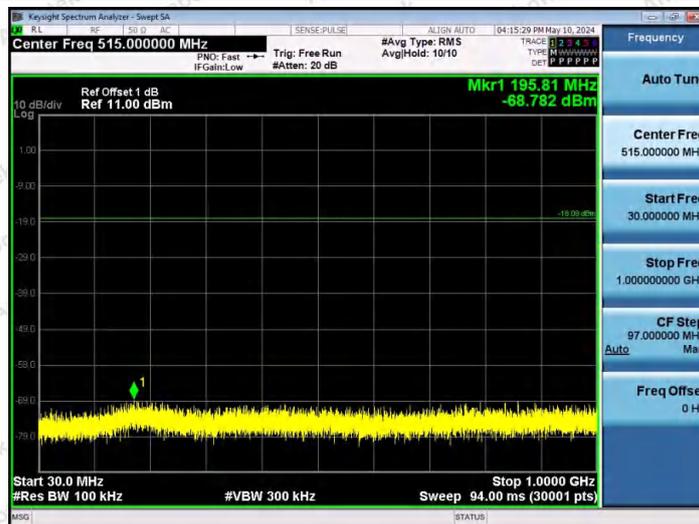
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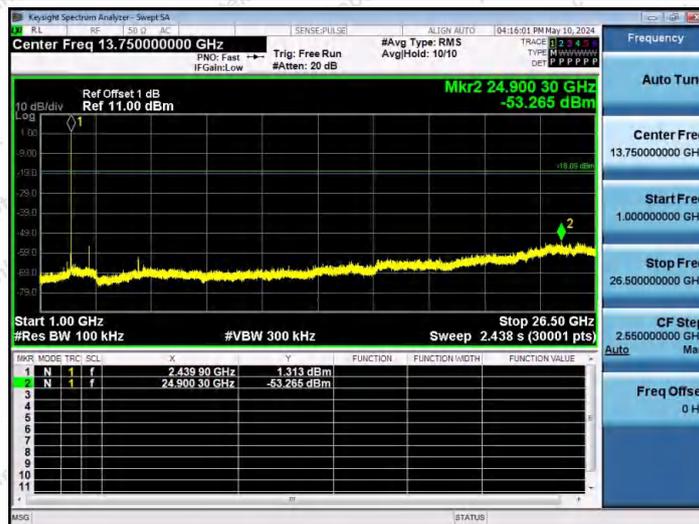




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS



BLE_1M-Ant1-2440-1000~26500-PASS

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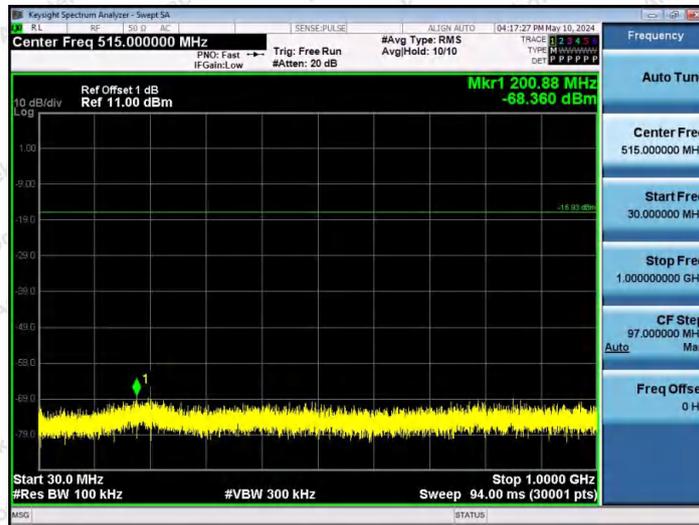
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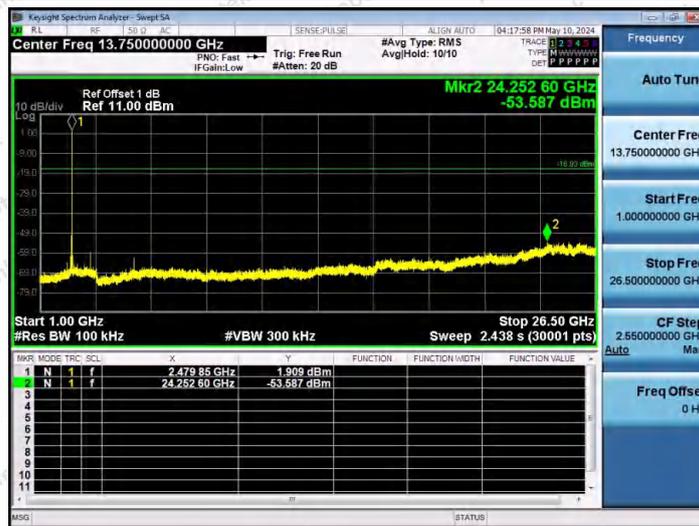




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS

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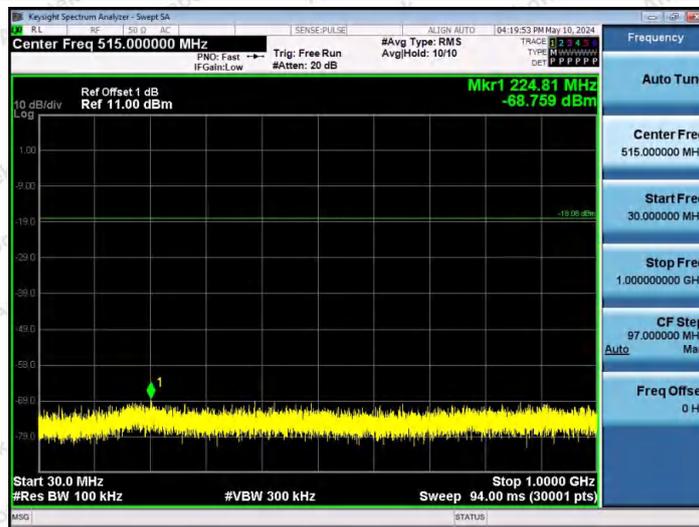
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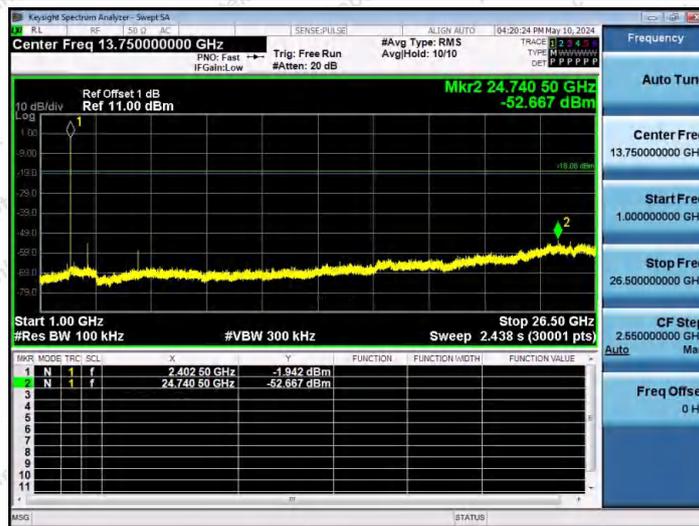




BLE_2M-Ant1-2402-0~Reference-PASS



BLE_2M-Ant1-2402-30~1000-PASS



BLE_2M-Ant1-2402-1000~26500-PASS

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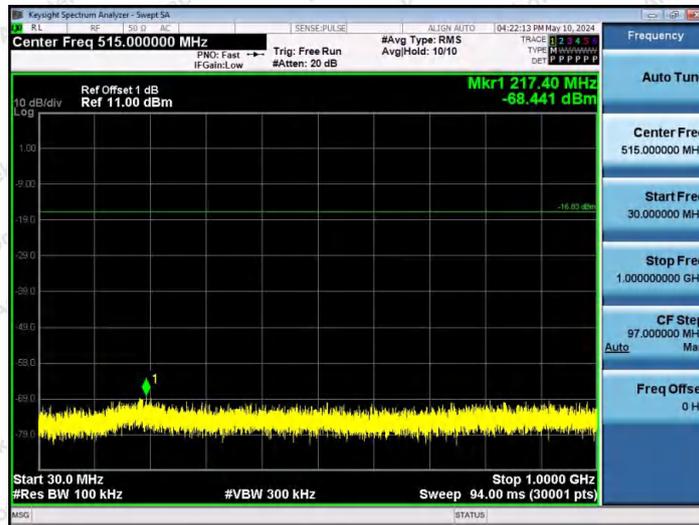
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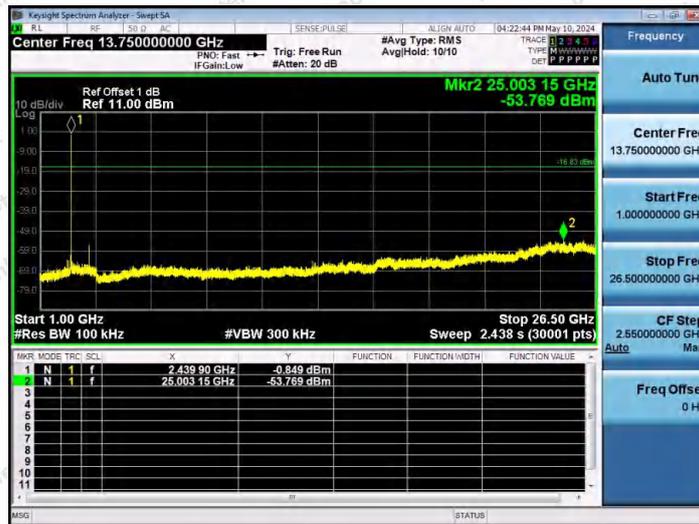




BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-PASS



BLE_2M-Ant1-2440-1000~26500-PASS

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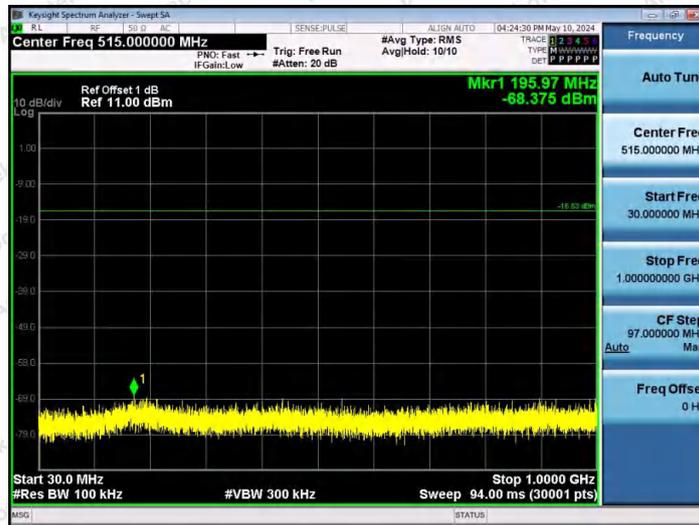
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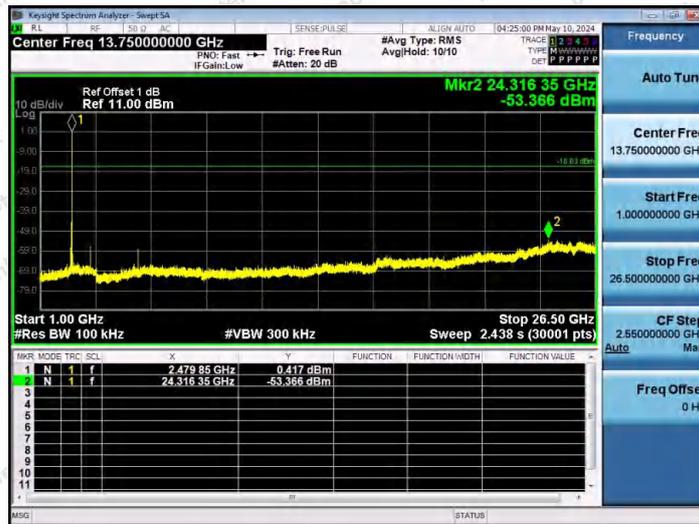




BLE_2M-Ant1-2480-0~Reference-PASS



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	2.10	2.50	84.00	0.76
BLE_1M	Ant1	2440	2.10	2.50	84.00	0.76
BLE_1M	Ant1	2480	2.10	2.50	84.00	0.76
BLE_2M	Ant1	2402	1.06	1.87	56.68	2.47
BLE_2M	Ant1	2440	1.06	1.87	56.68	2.47
BLE_2M	Ant1	2480	1.07	1.88	56.91	2.45

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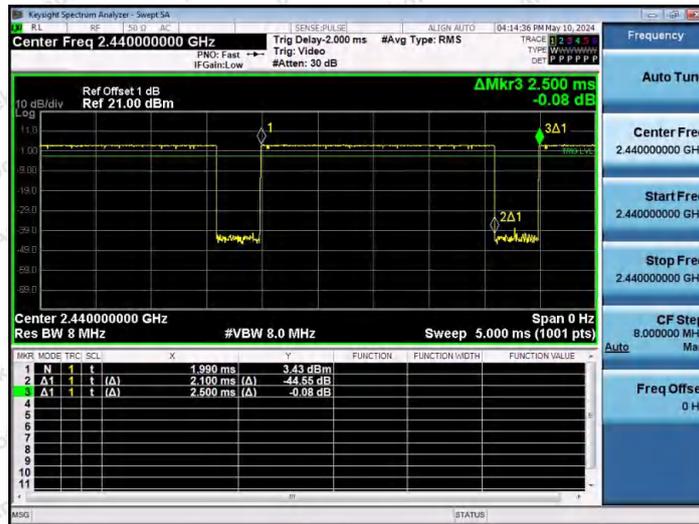
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Test Graphs



NTNV-BLE_1M-Ant1-2402



NTNV-BLE_1M-Ant1-2440



NTNV-BLE_1M-Ant1-2480

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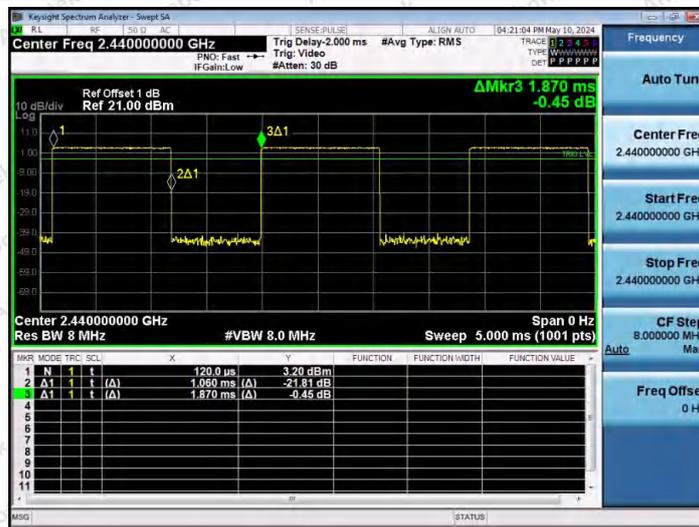
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NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---End---

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