

Appendix Test Data(module 1)

Report No.:	1812C40028712501	Test Sample No.:	1-2-2
Start Test Date:	2024.08.23	Finish Test Date:	2024.08.23
Test Engineer:	<i>Joker Huang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	23.8℃	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	0.684	2401.664	2402.348	0.5	PASS
BLE_1M	Ant1	2440	0.676	2439.672	2440.348	0.5	PASS
BLE_1M	Ant1	2480	0.720	2479.652	2480.372	0.5	PASS
BLE_2M	Ant1	2402	1.188	2401.392	2402.580	0.5	PASS
BLE_2M	Ant1	2440	1.188	2439.388	2440.576	0.5	PASS
BLE_2M	Ant1	2480	1.124	2479.452	2480.576	0.5	PASS



Test Graphs



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BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



Appendix B: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0895	2401.4574	2402.5469	---	---
BLE_1M	Ant1	2440	1.1031	2439.4589	2440.5620	---	---
BLE_1M	Ant1	2480	1.0979	2479.4624	2480.5603	---	---
BLE_2M	Ant1	2402	2.0784	2400.9690	2403.0474	---	---
BLE_2M	Ant1	2440	2.0771	2438.9738	2441.0509	---	---
BLE_2M	Ant1	2480	2.0779	2478.9691	2481.0470	---	---

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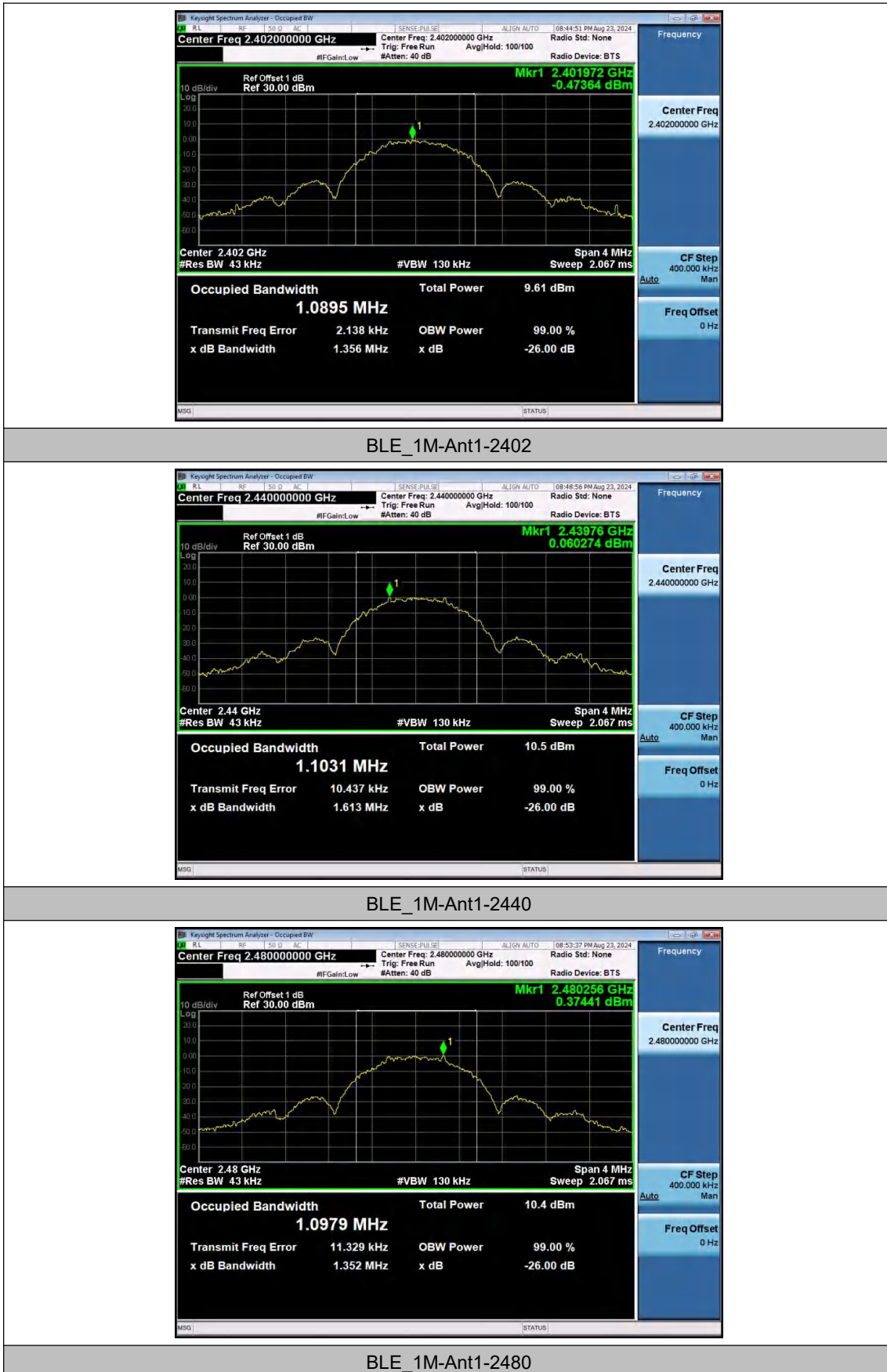
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BLE_2M-Ant1-2402



BLE_2M-Ant1-2440



BLE_2M-Ant1-2480

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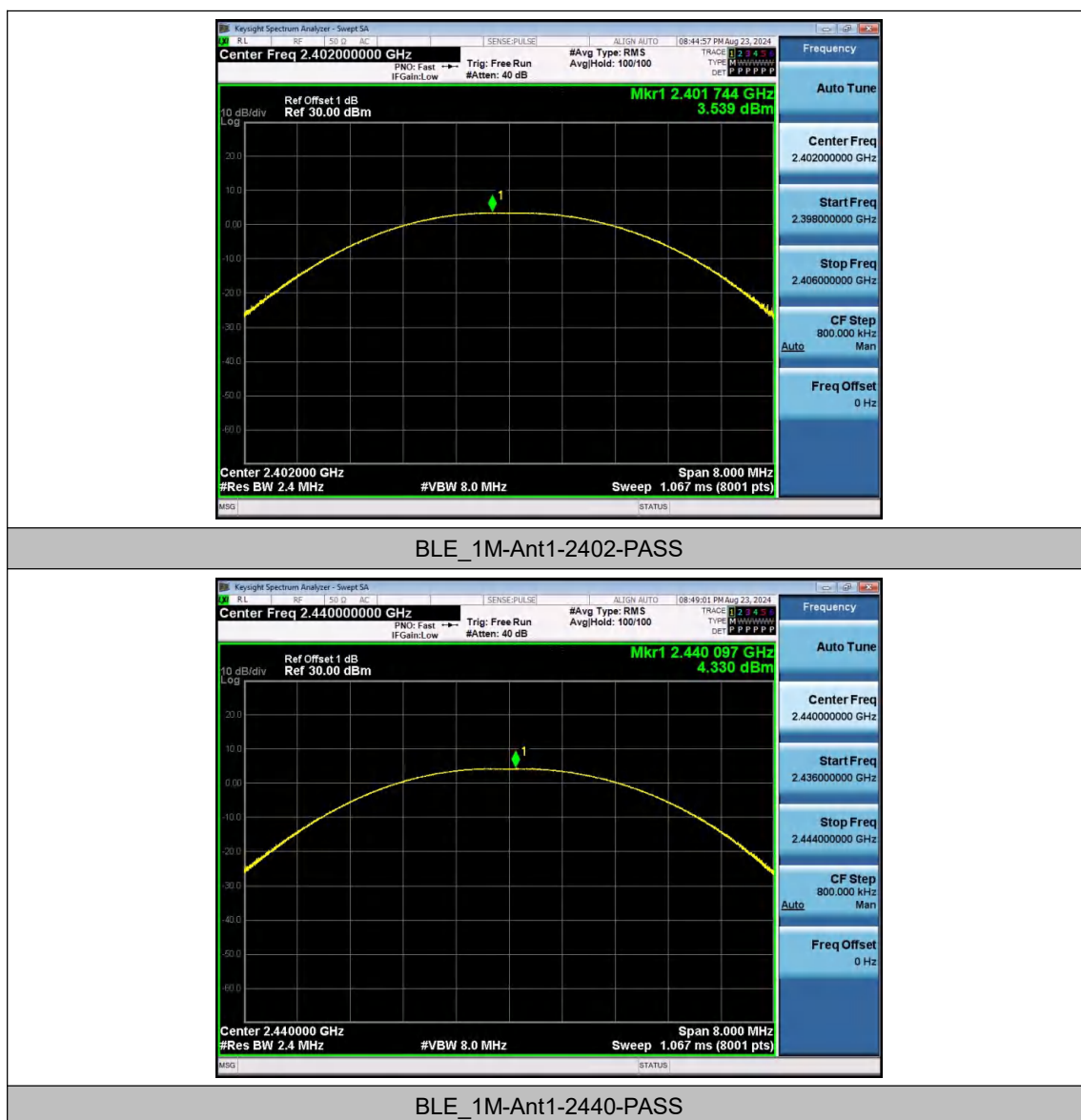


Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	3.54	≤30	PASS
BLE_1M	Ant1	2440	4.33	≤30	PASS
BLE_1M	Ant1	2480	4.27	≤30	PASS
BLE_2M	Ant1	2402	3.62	≤30	PASS
BLE_2M	Ant1	2440	4.51	≤30	PASS
BLE_2M	Ant1	2480	3.87	≤30	PASS

Test Graphs Peak





BLE_1M-Ant1-2480-PASS



BLE_2M-Ant1-2402-PASS



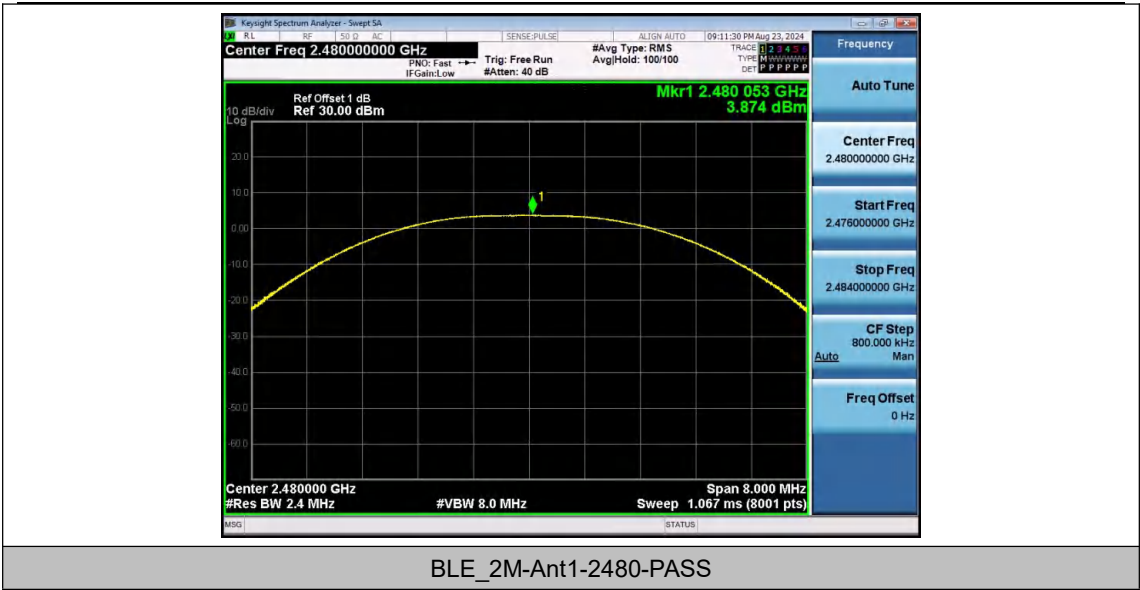
BLE_2M-Ant1-2440-PASS

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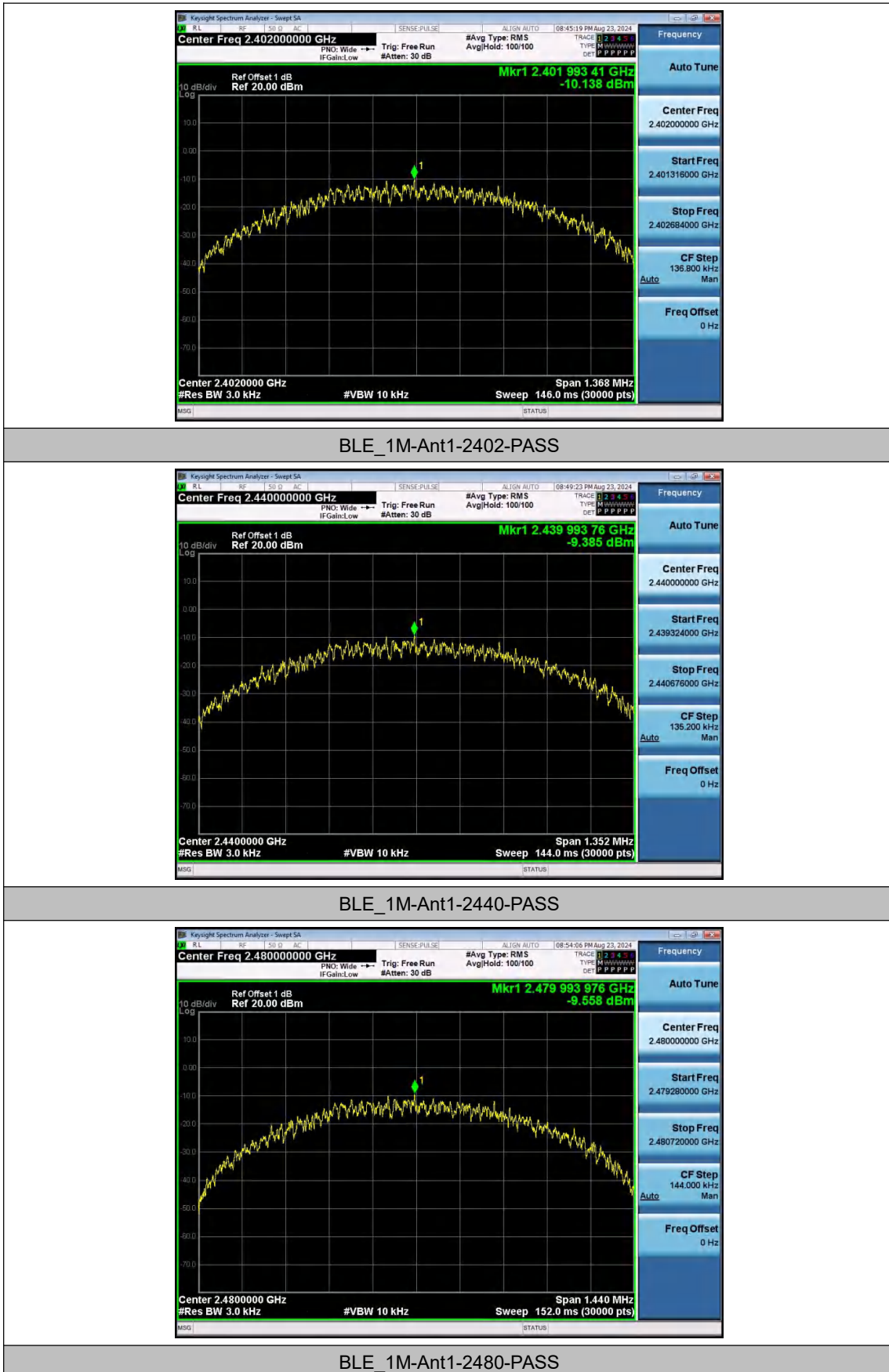
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.14	≤8.00	PASS
BLE_1M	Ant1	2440	-9.39	≤8.00	PASS
BLE_1M	Ant1	2480	-9.56	≤8.00	PASS
BLE_2M	Ant1	2402	-12.33	≤8.00	PASS
BLE_2M	Ant1	2440	-11.54	≤8.00	PASS
BLE_2M	Ant1	2480	-12.14	≤8.00	PASS



Test Graphs

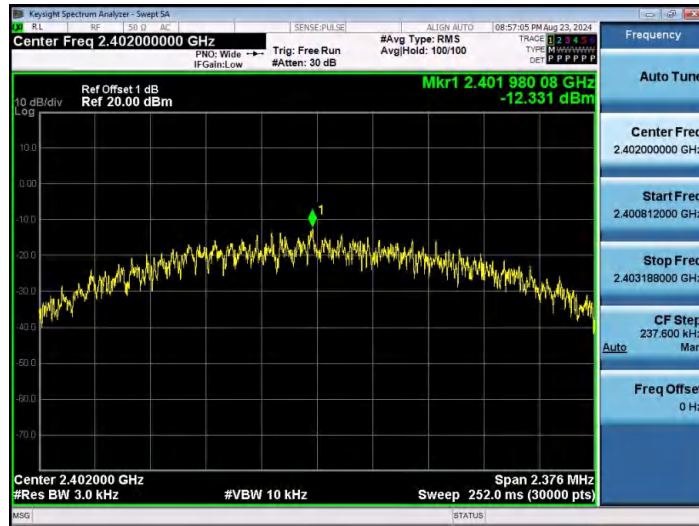


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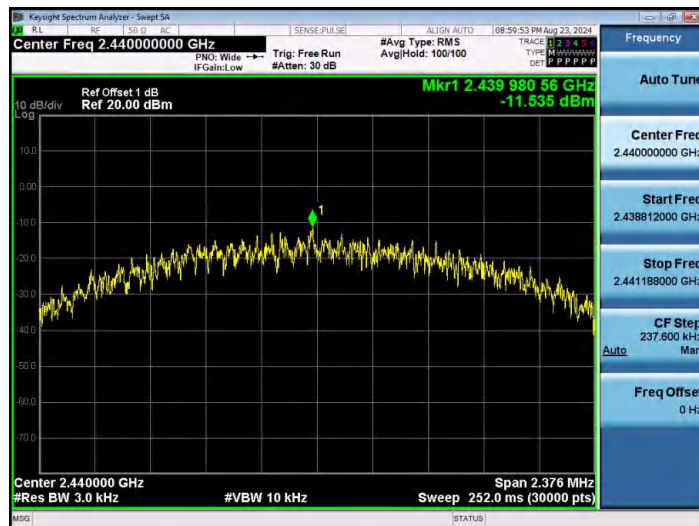
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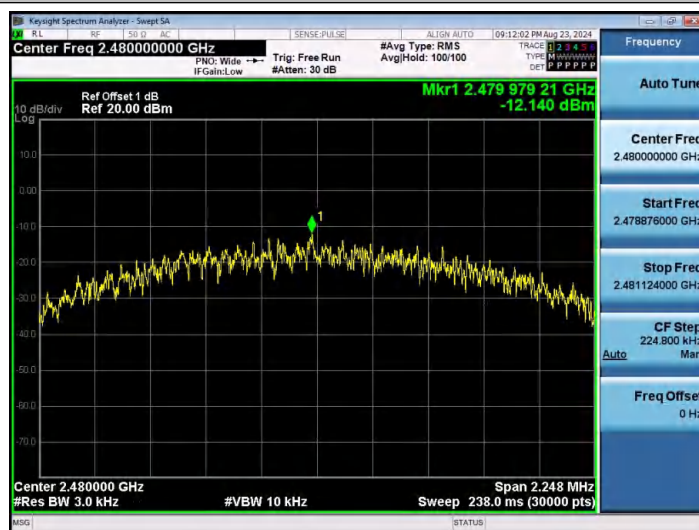




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS



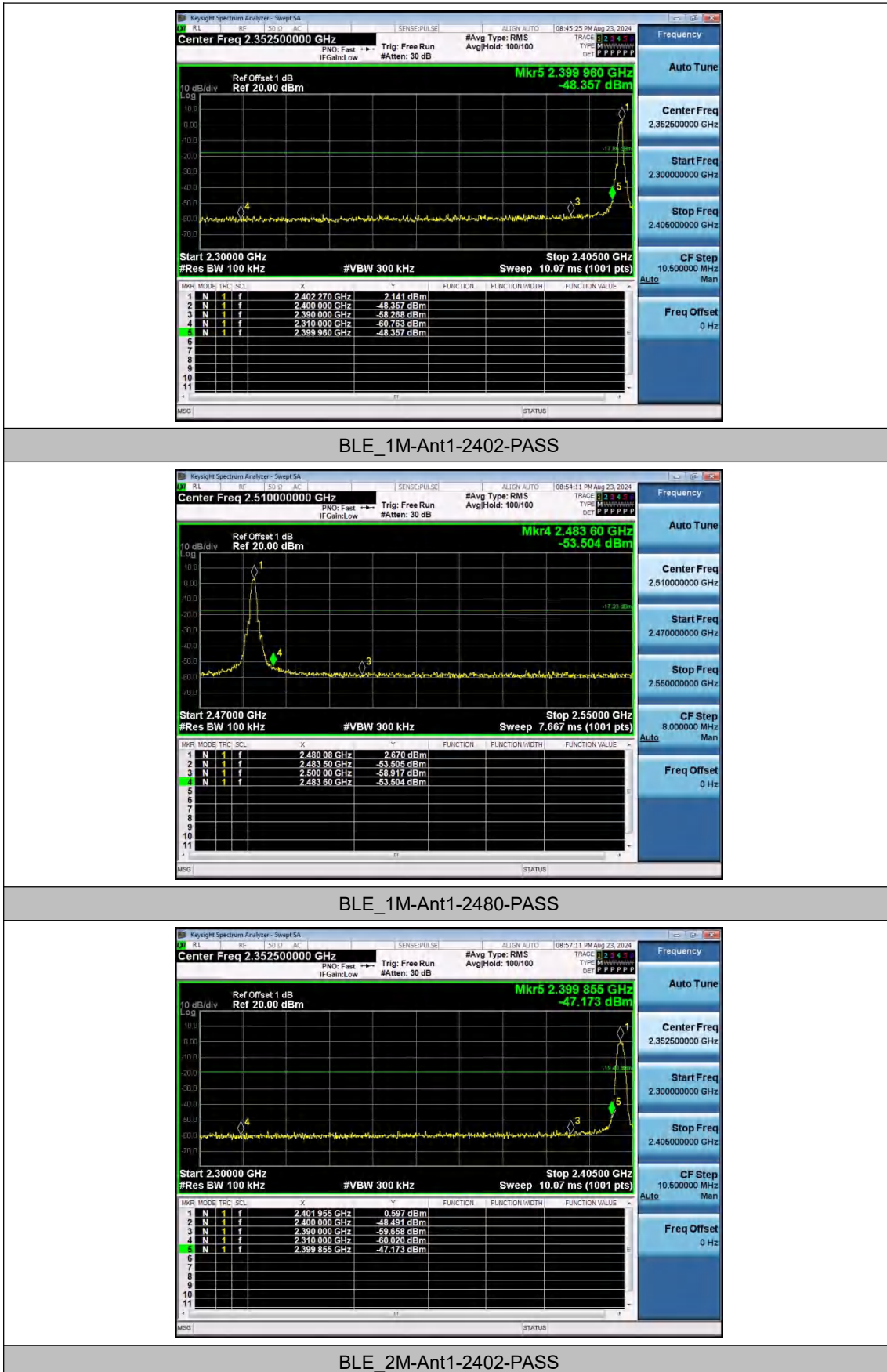
Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.14	-48.36	≤-17.86	PASS
BLE_1M	Ant1	High	2480	2.67	-53.5	≤-17.33	PASS
BLE_2M	Ant1	Low	2402	0.60	-47.17	≤-19.4	PASS
BLE_2M	Ant1	High	2480	0.35	-53.33	≤-19.65	PASS



Test Graphs

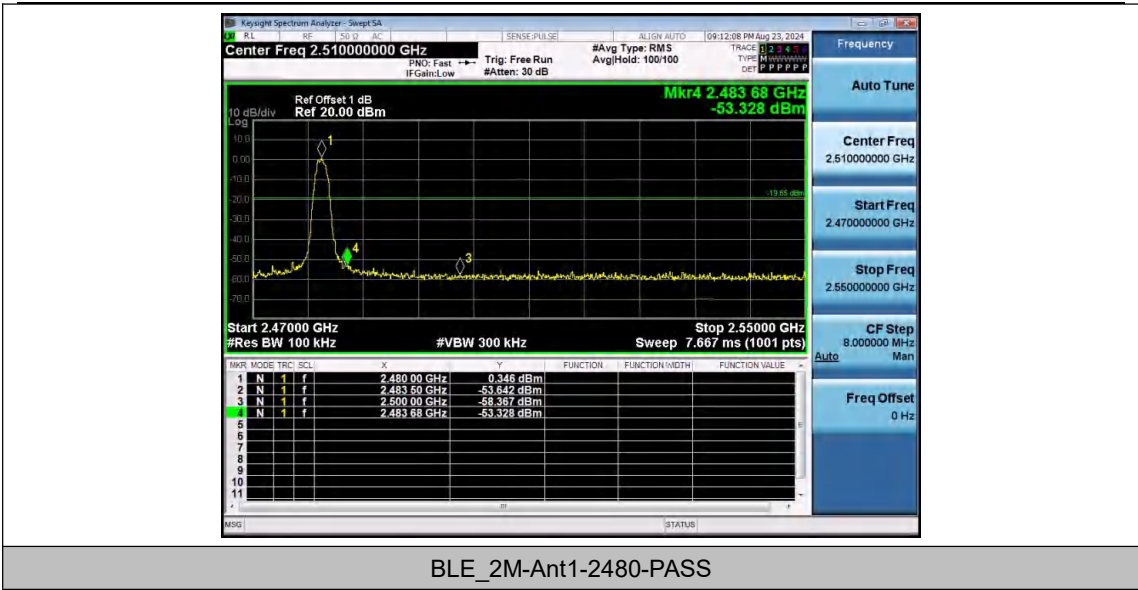


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BLE_2M-Ant1-2480-PASS

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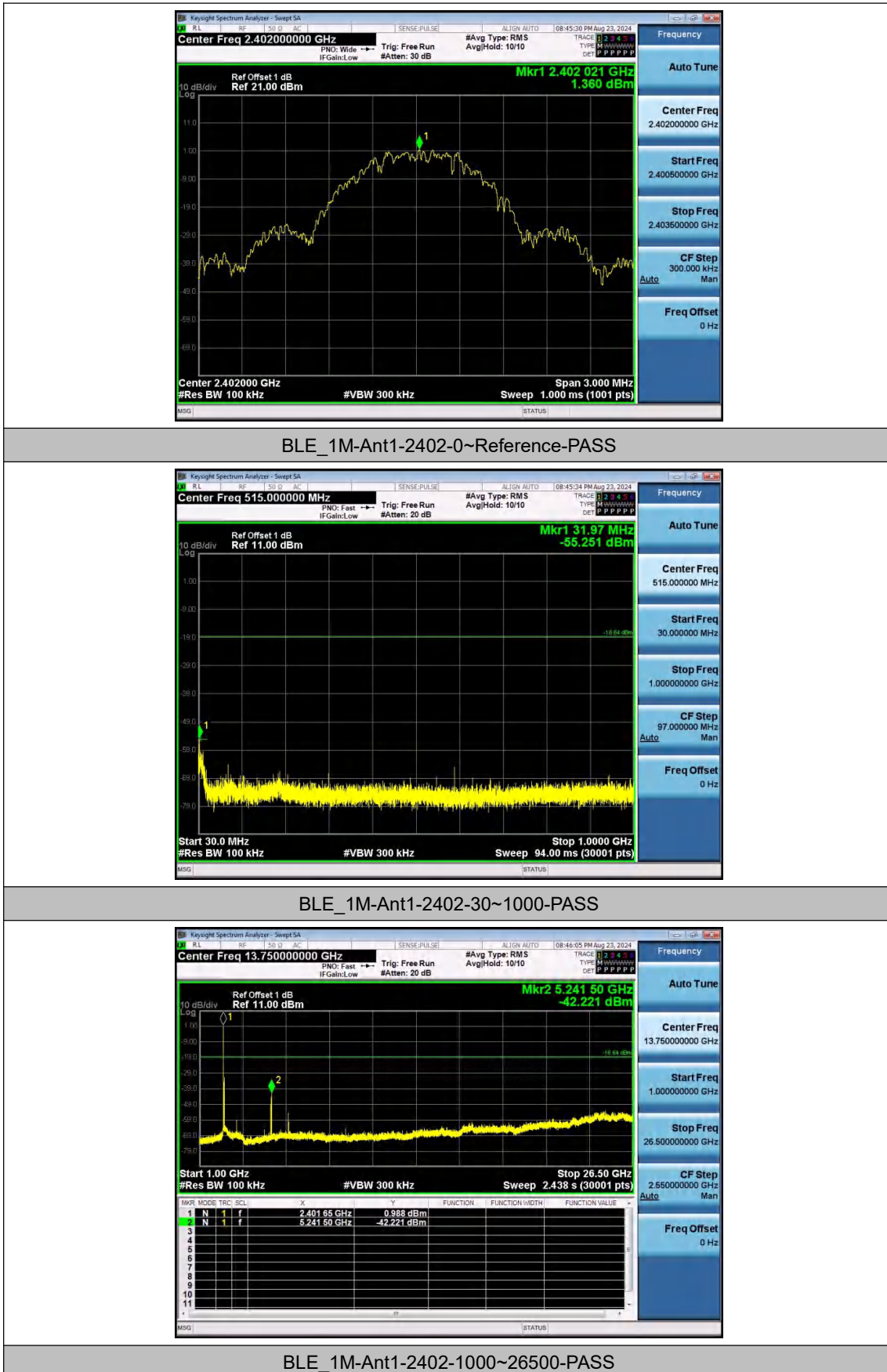
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	1.36	1.36	---	PASS
BLE_1M	Ant1	2402	30~1000	1.36	-55.25	≤-18.64	PASS
BLE_1M	Ant1	2402	1000~26500	1.36	-42.22	≤-18.64	PASS
BLE_1M	Ant1	2440	0~Reference	2.44	2.44	---	PASS
BLE_1M	Ant1	2440	30~1000	2.44	-57.83	≤-17.56	PASS
BLE_1M	Ant1	2440	1000~26500	2.44	-37.22	≤-17.56	PASS
BLE_1M	Ant1	2480	0~Reference	1.81	1.81	---	PASS
BLE_1M	Ant1	2480	30~1000	1.81	-51.94	≤-18.19	PASS
BLE_1M	Ant1	2480	1000~26500	1.81	-49.7	≤-18.19	PASS
BLE_2M	Ant1	2402	0~Reference	0.81	0.81	---	PASS
BLE_2M	Ant1	2402	30~1000	0.81	-53.57	≤-19.19	PASS
BLE_2M	Ant1	2402	1000~26500	0.81	-36.19	≤-19.19	PASS
BLE_2M	Ant1	2440	0~Reference	1.75	1.75	---	PASS
BLE_2M	Ant1	2440	30~1000	1.75	-57.55	≤-18.25	PASS
BLE_2M	Ant1	2440	1000~26500	1.75	-53.22	≤-18.25	PASS
BLE_2M	Ant1	2480	0~Reference	-0.73	-0.73	---	PASS
BLE_2M	Ant1	2480	30~1000	-0.73	-52.33	≤-20.73	PASS
BLE_2M	Ant1	2480	1000~26500	-0.73	-33.15	≤-20.73	PASS



Test Graphs



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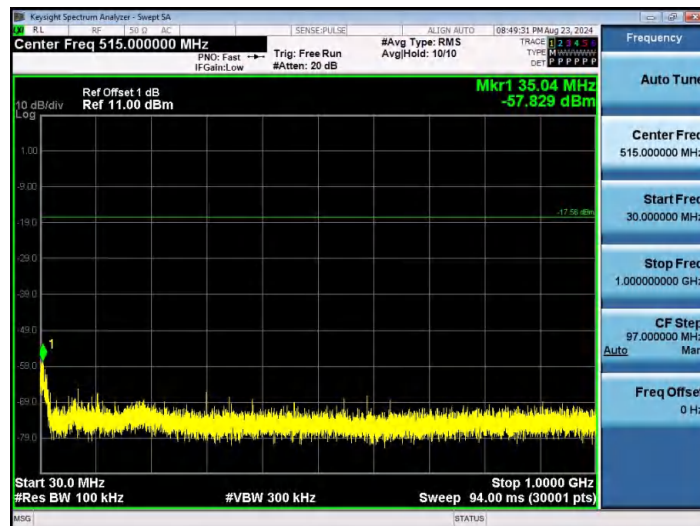
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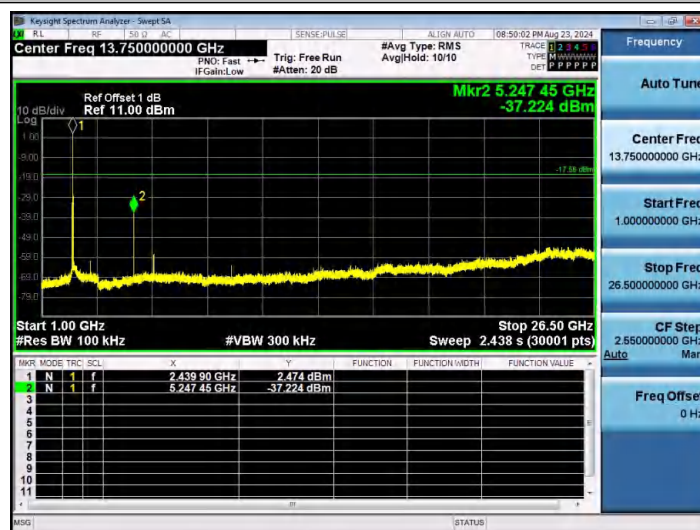




BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS

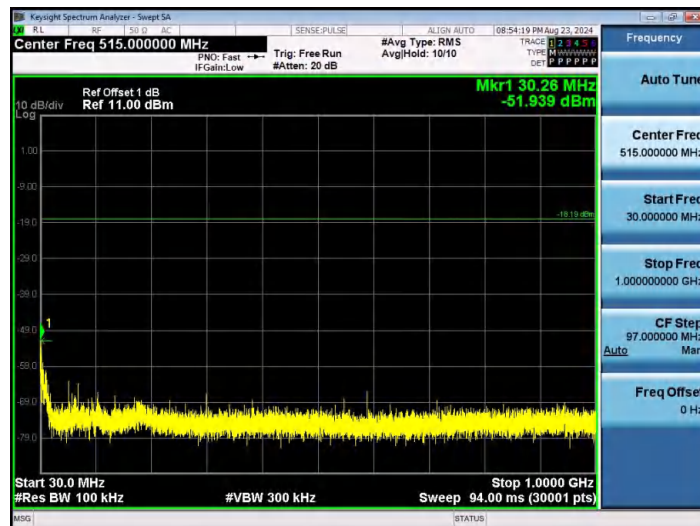


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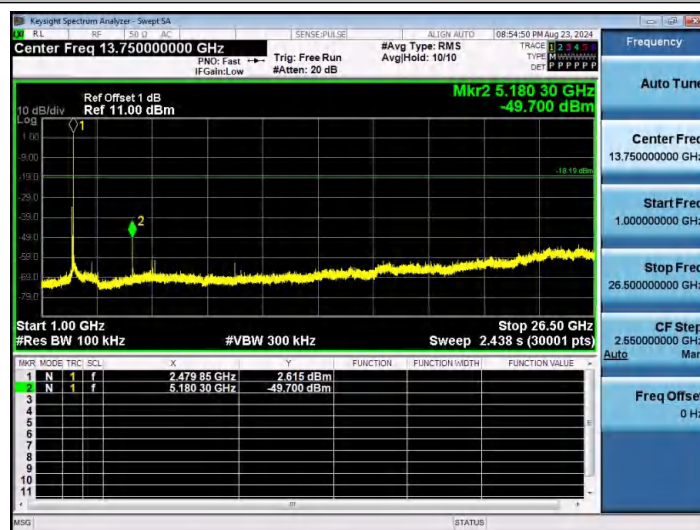




BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



BLE_1M-Ant1-2480-1000~26500-PASS

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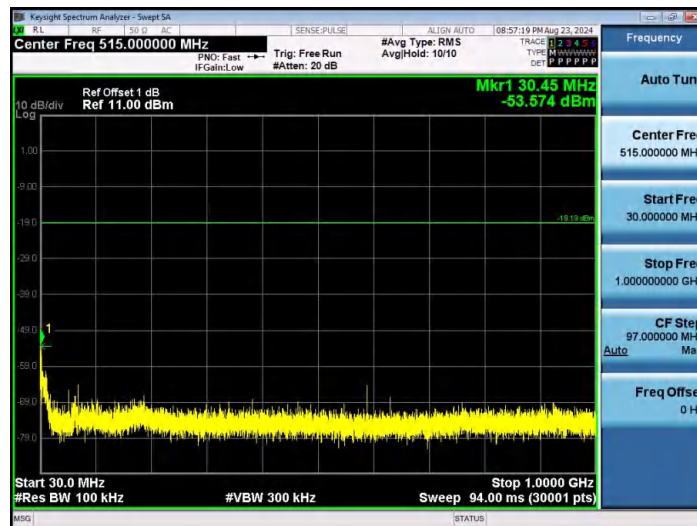
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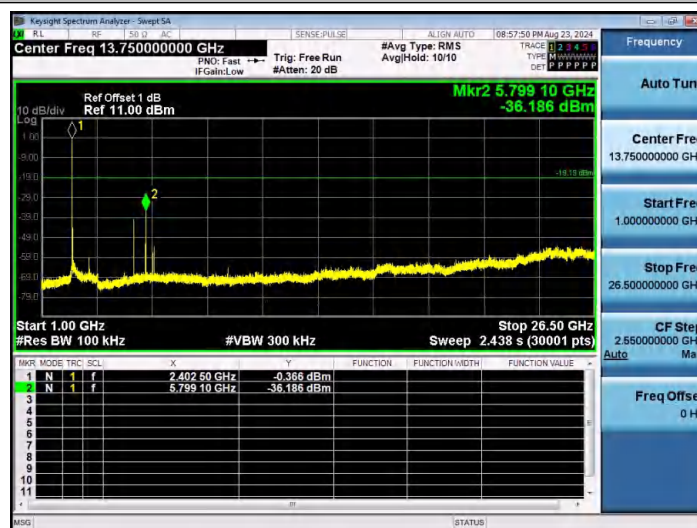




BLE_2M-Ant1-2402-0~Reference-PASS

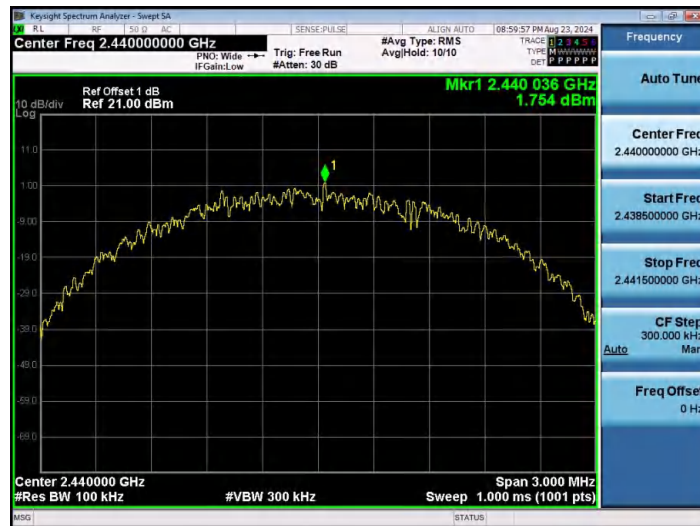


BLE_2M-Ant1-2402-30~1000-PASS

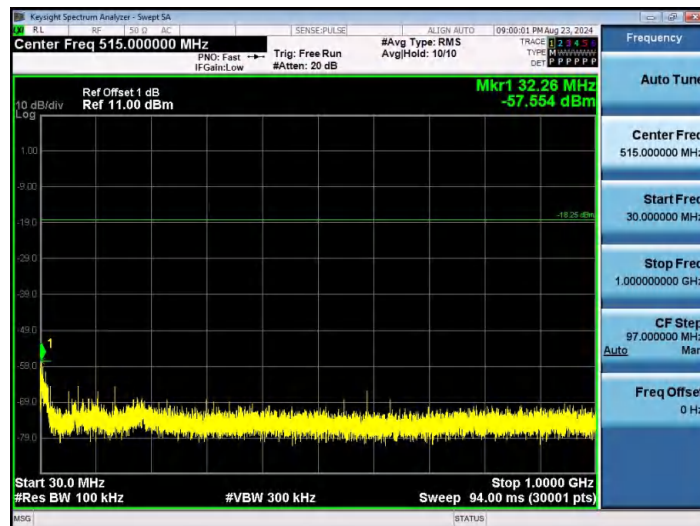


BLE_2M-Ant1-2402-1000~26500-PASS

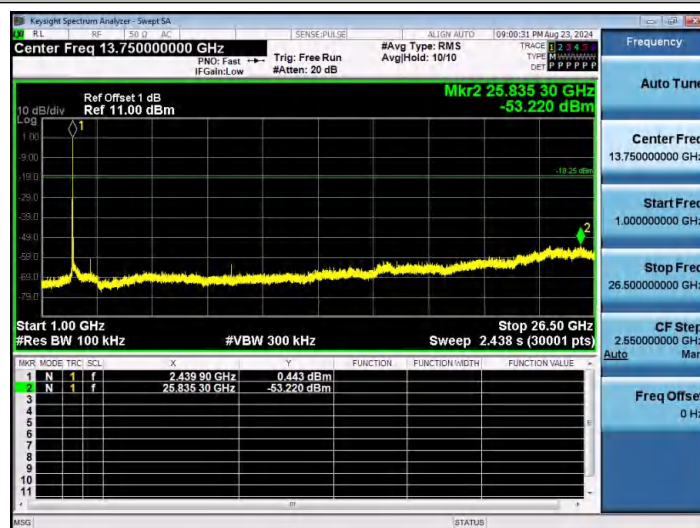




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BLE_2M-Ant1-2440-30~1000-PASS

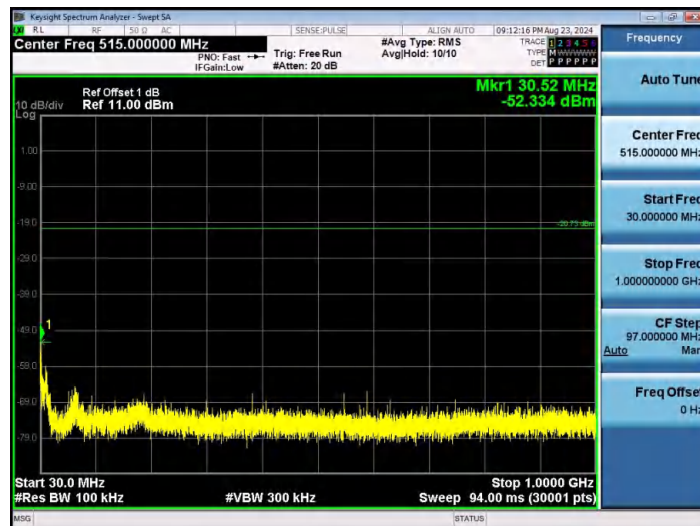


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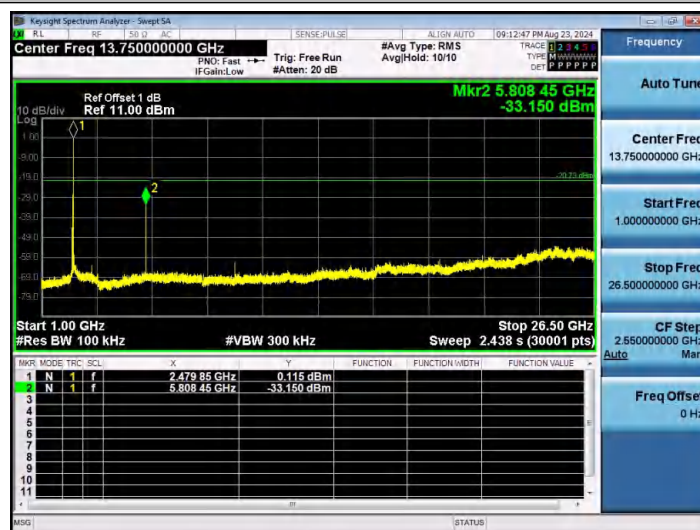




BLE_2M-Ant1-2480-0~Reference-PASS



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	19.00	19.00	100.00	0.00
BLE_1M	Ant1	2440	19.00	19.00	100.00	0.00
BLE_1M	Ant1	2480	19.00	19.00	100.00	0.00
BLE_2M	Ant1	2402	19.00	19.00	100.00	0.00
BLE_2M	Ant1	2440	19.00	19.00	100.00	0.00
BLE_2M	Ant1	2480	19.00	19.00	100.00	0.00

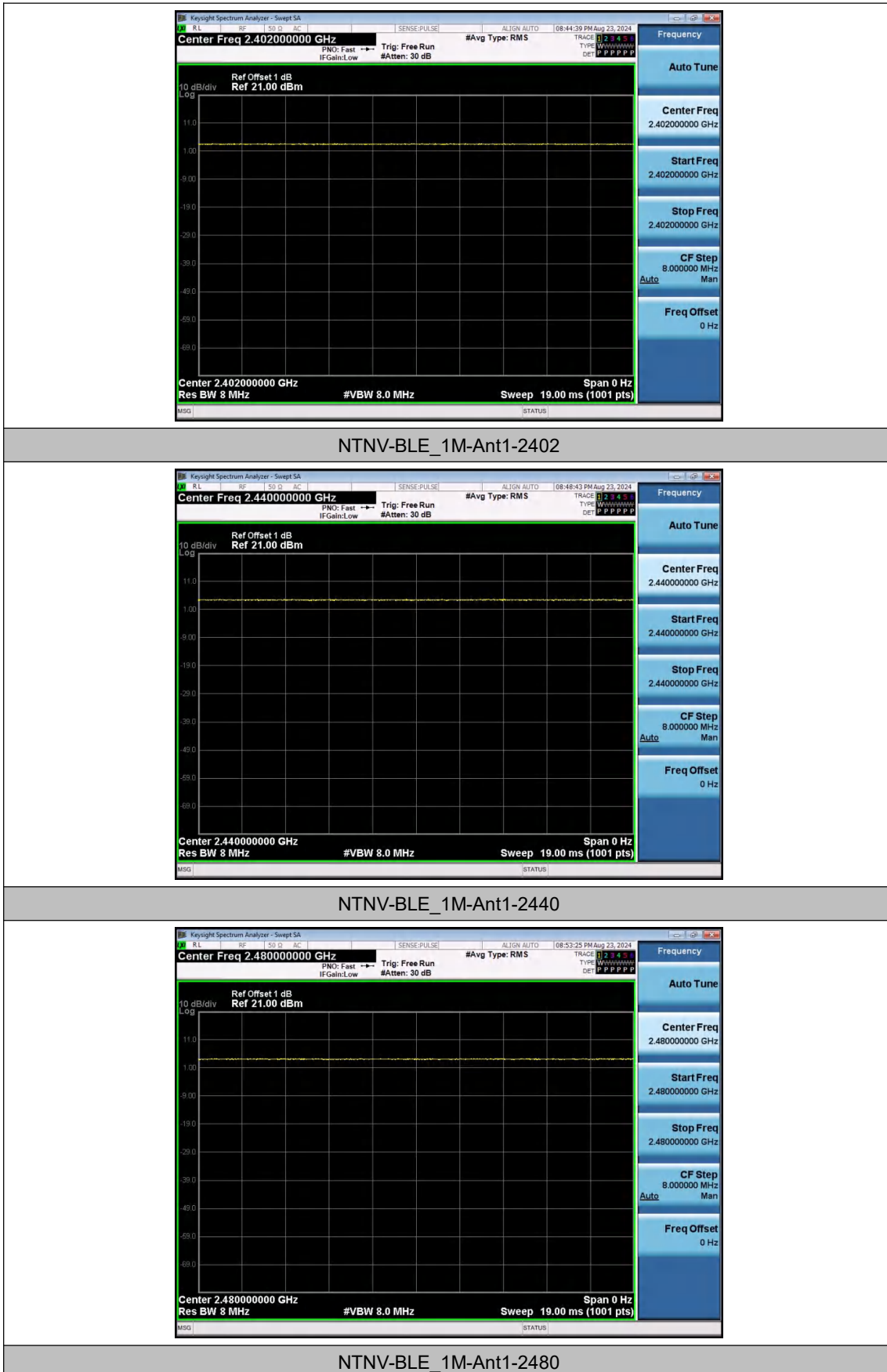
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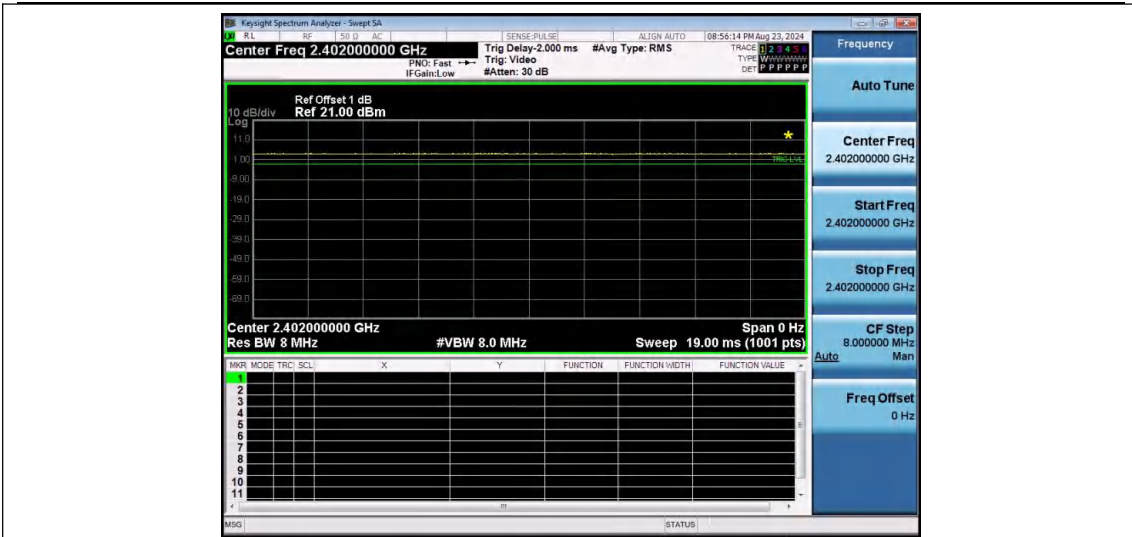


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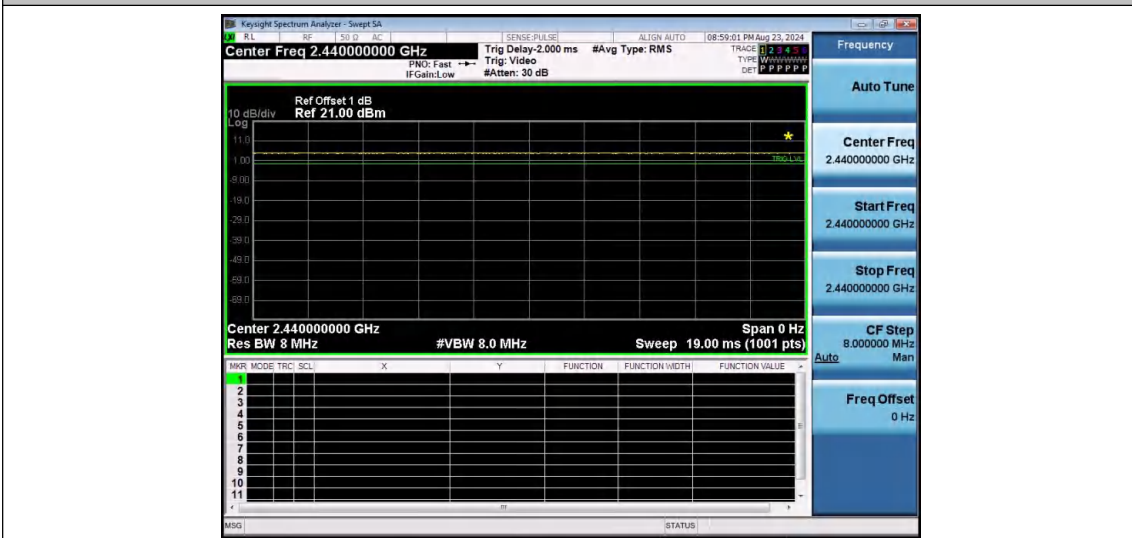
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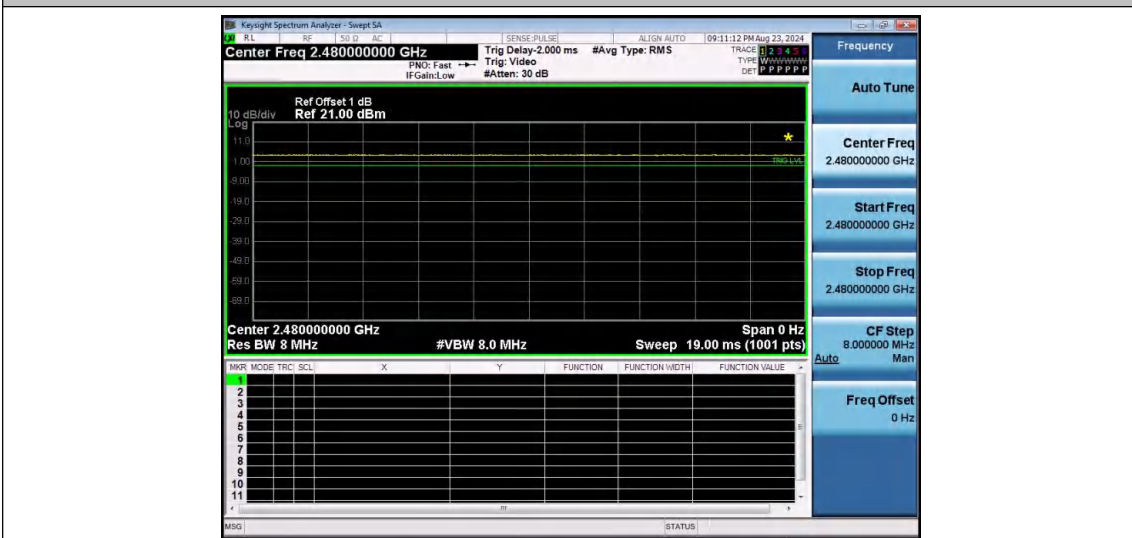




NTNV-BLE_2M-Ant1-2402



NTNV-BLE_2M-Ant1-2440



NTNV-BLE_2M-Ant1-2480

---End---

