

## Appendix Test Data

Report No.:	1811C50036812501	Test Sample No.:	1-2-2
Start Test Date:	2025.03.17	Finish Test Date:	2025.03.17
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	23.6°C	Relative Humidity:	42%
Pressure:	101kPa		

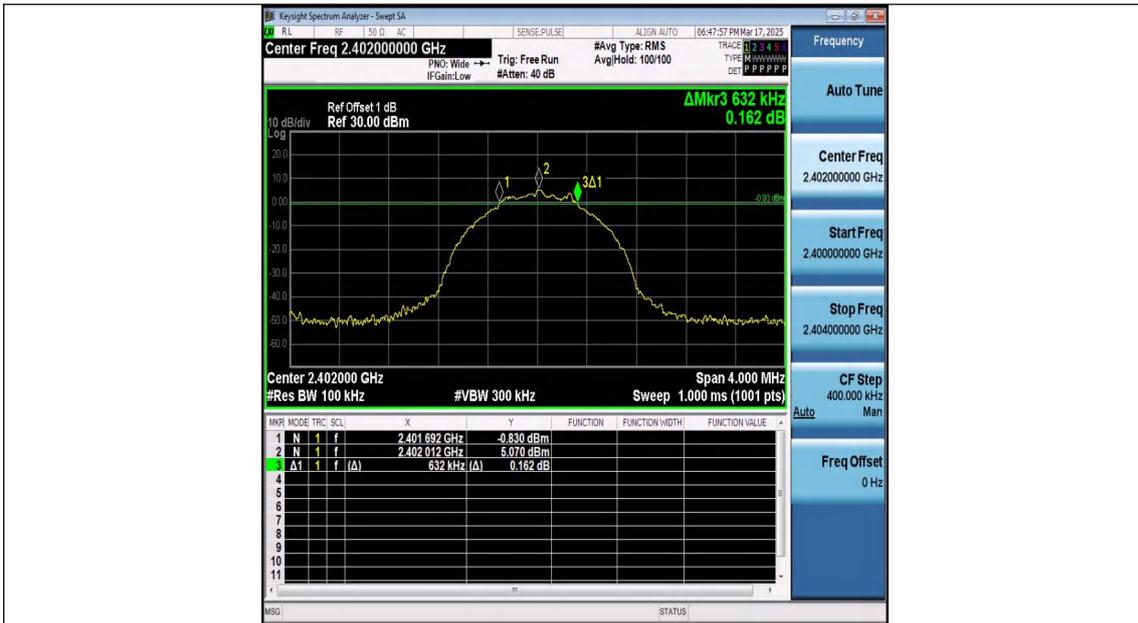
## Appendix A: 6dB Bandwidth

### Test Result

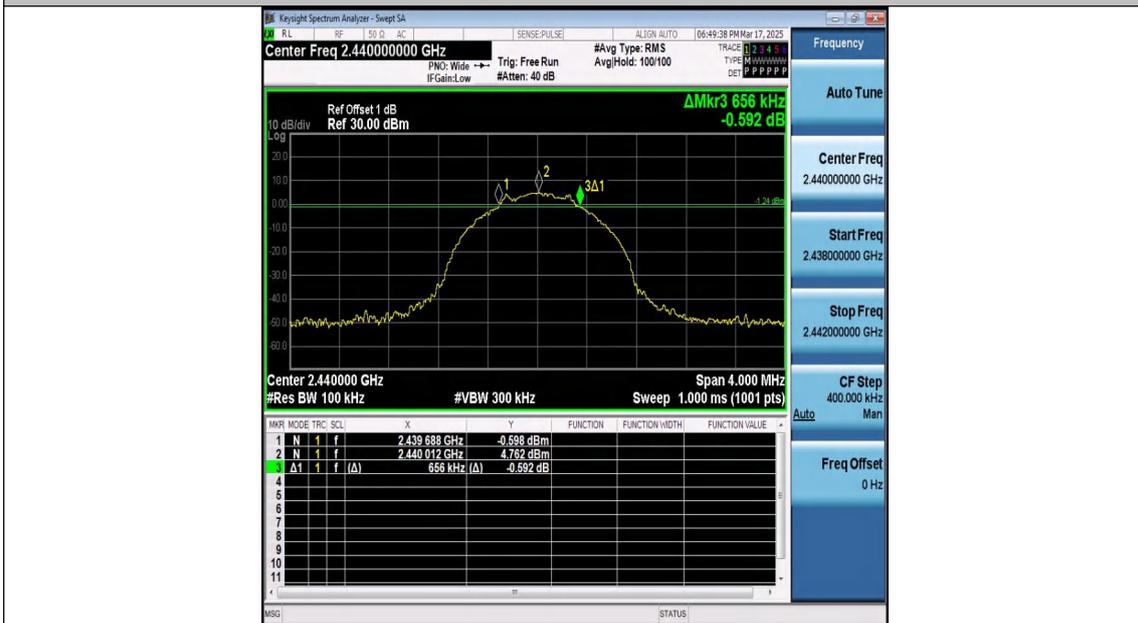
Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.632	2401.692	2402.324	0.5	PASS
BLE_1M	Ant1	2440	0.656	2439.688	2440.344	0.5	PASS
BLE_1M	Ant1	2480	0.660	2479.676	2480.336	0.5	PASS
BLE_2M	Ant1	2402	1.096	2401.488	2402.584	0.5	PASS
BLE_2M	Ant1	2440	1.060	2439.484	2440.544	0.5	PASS
BLE_2M	Ant1	2480	1.184	2479.412	2480.596	0.5	PASS



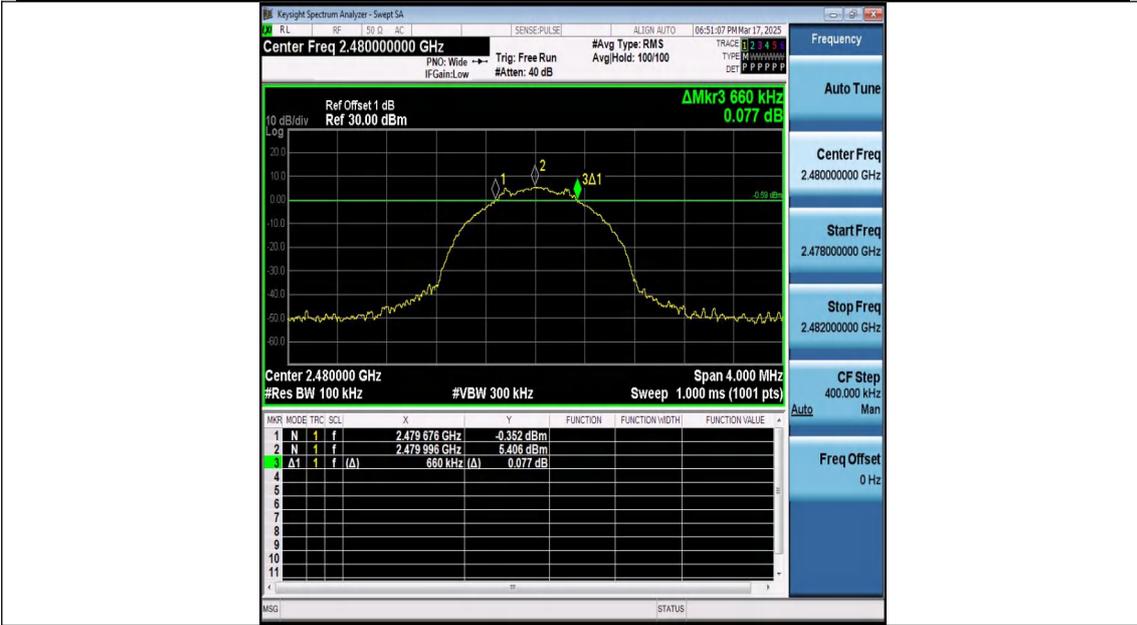
**Test Graphs**



BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2440-PASS



BLE\_1M-Ant1-2480-PASS

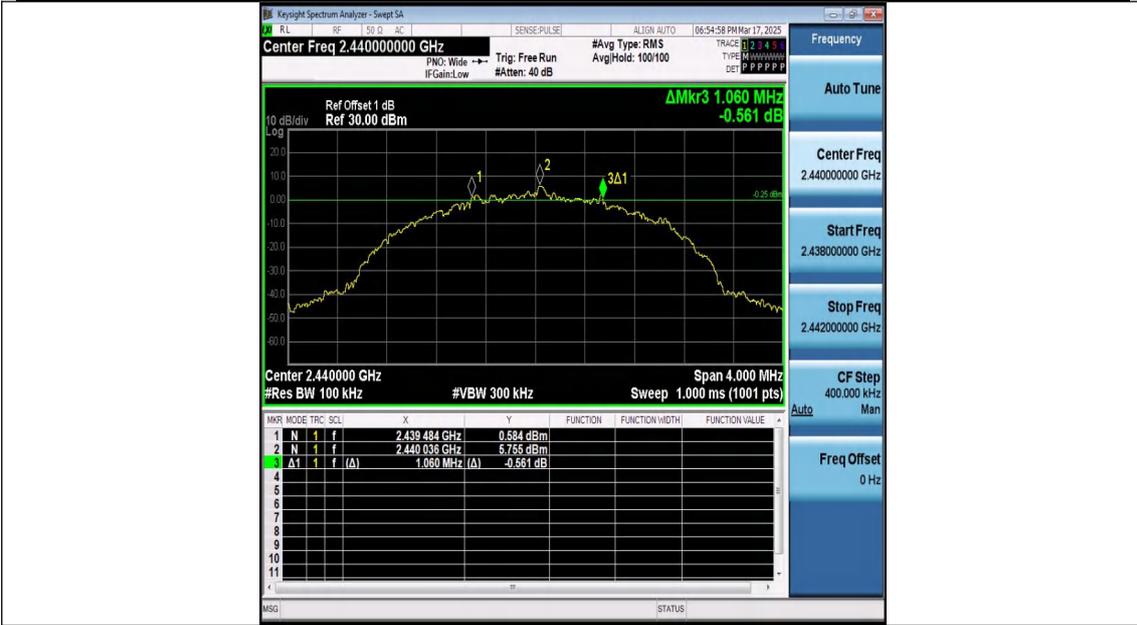


BLE\_2M-Ant1-2402-PASS

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BLE\_2M-Ant1-2440-PASS



BLE\_2M-Ant1-2480-PASS

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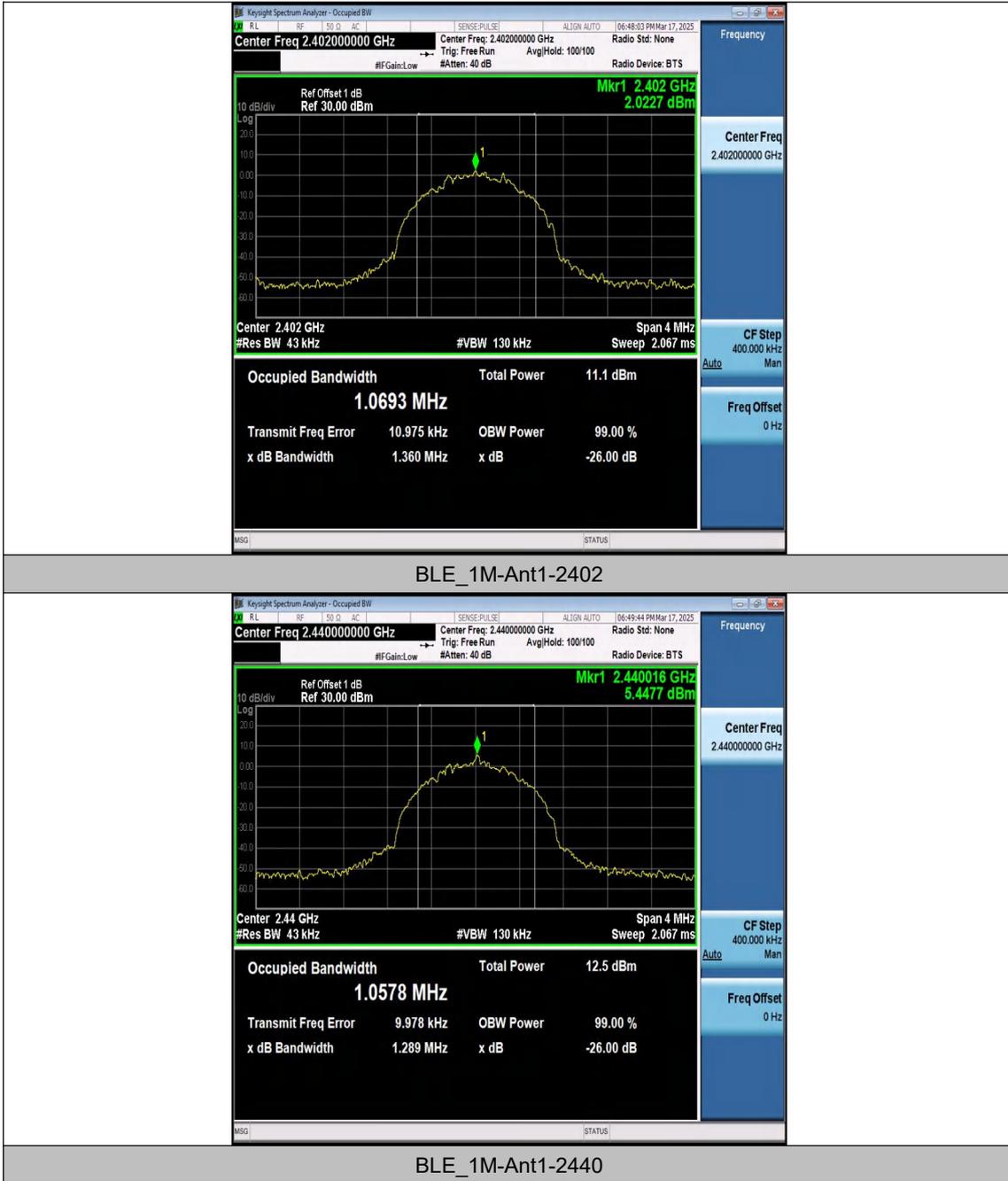
## Appendix B: 99% Occupied Bandwidth

### Test Result

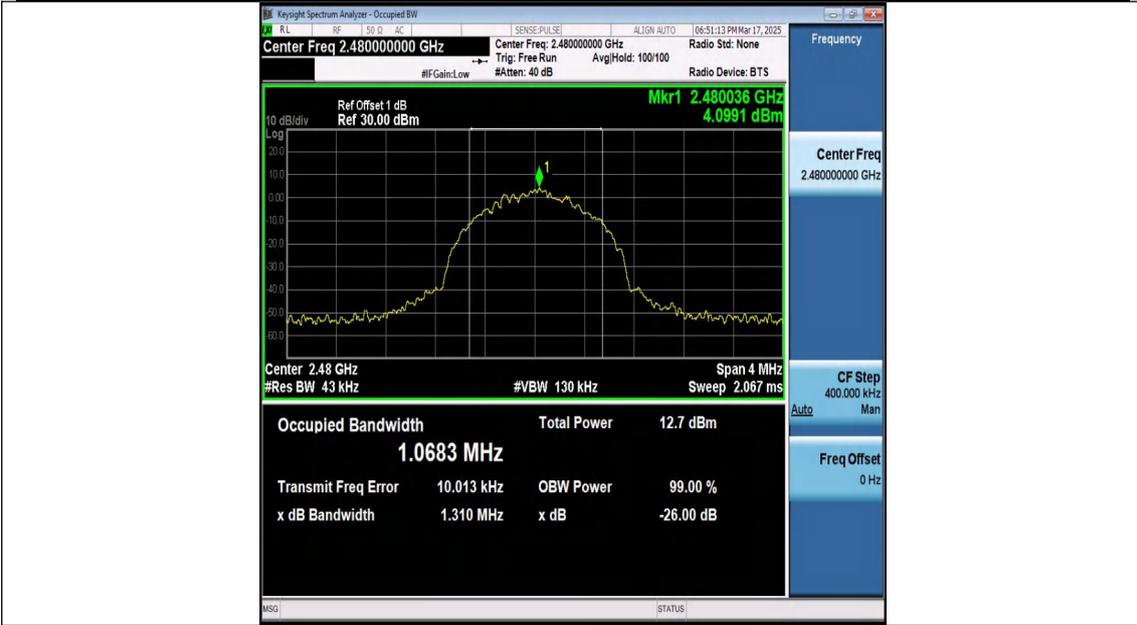
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0693	2401.4763	2402.5456	---	---
BLE_1M	Ant1	2440	1.0578	2439.4811	2440.5389	---	---
BLE_1M	Ant1	2480	1.0683	2479.4759	2480.5442	---	---
BLE_2M	Ant1	2402	2.1253	2400.9586	2403.0839	---	---
BLE_2M	Ant1	2440	2.1041	2438.9622	2441.0663	---	---
BLE_2M	Ant1	2480	2.1097	2478.9618	2481.0715	---	---



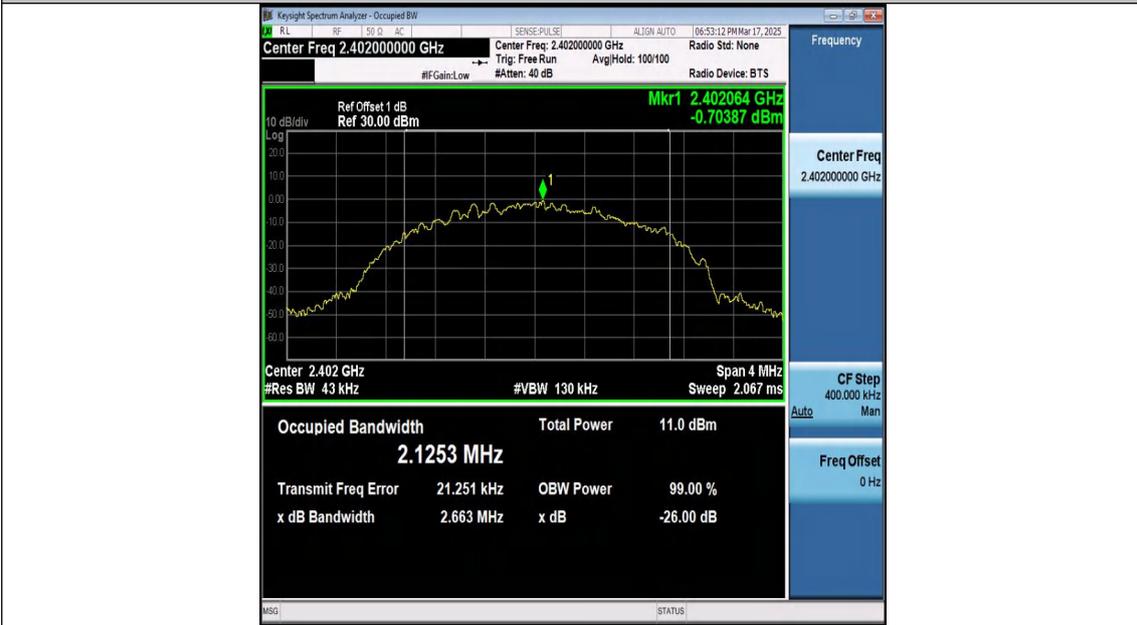
**Test Graphs**



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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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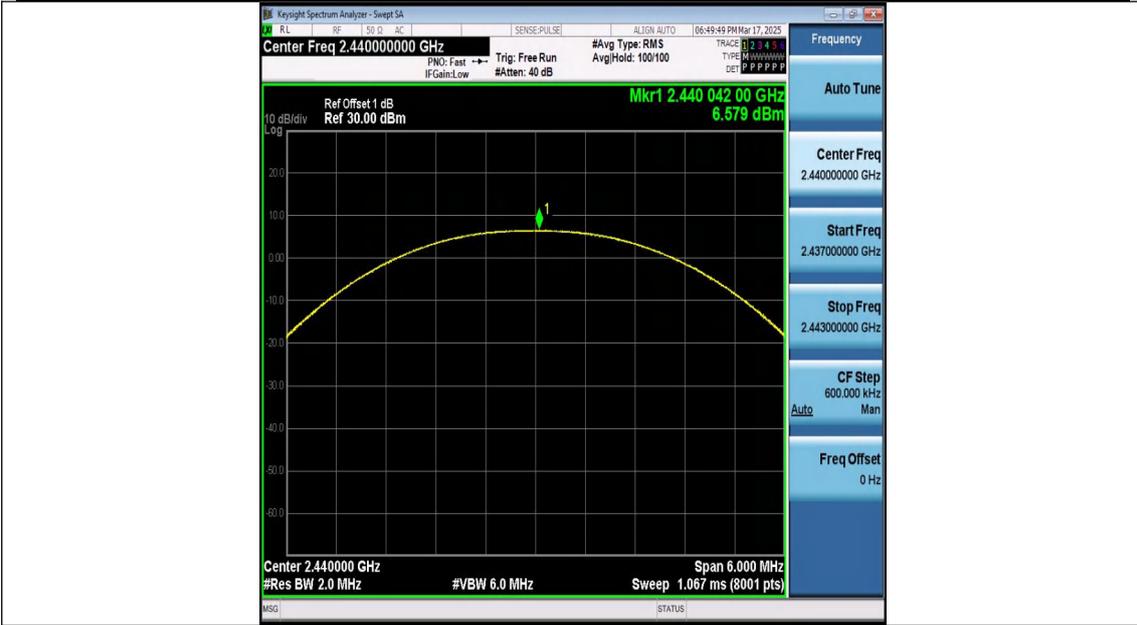
## Appendix C: Maximum conducted output power

### Test Result Peak

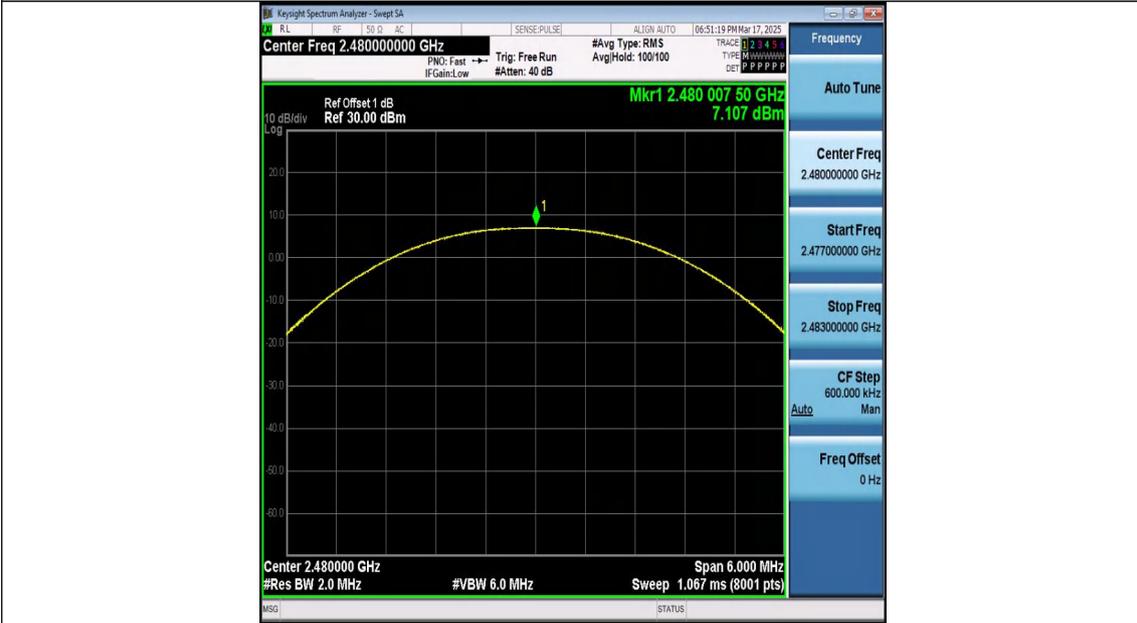
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	5.49	≤30	PASS
BLE_1M	Ant1	2440	6.58	≤30	PASS
BLE_1M	Ant1	2480	7.11	≤30	PASS
BLE_2M	Ant1	2402	5.58	≤30	PASS
BLE_2M	Ant1	2440	6.69	≤30	PASS
BLE_2M	Ant1	2480	<b>7.26</b>	≤30	PASS

### Test Graphs Peak





BLE\_1M-Ant1-2440-PASS

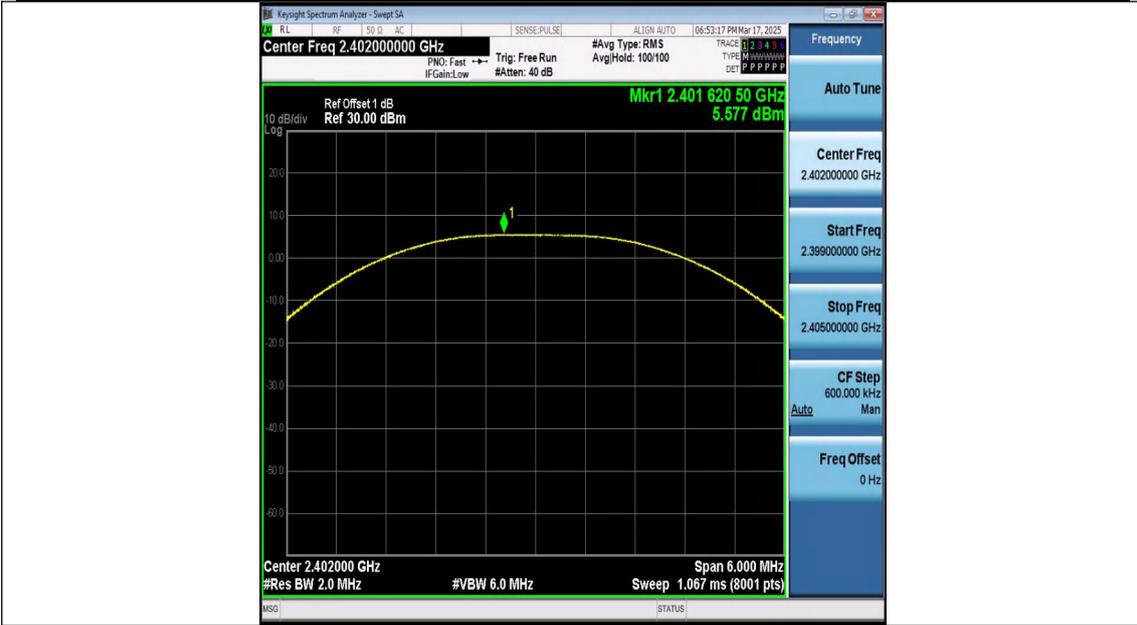


BLE\_1M-Ant1-2480-PASS

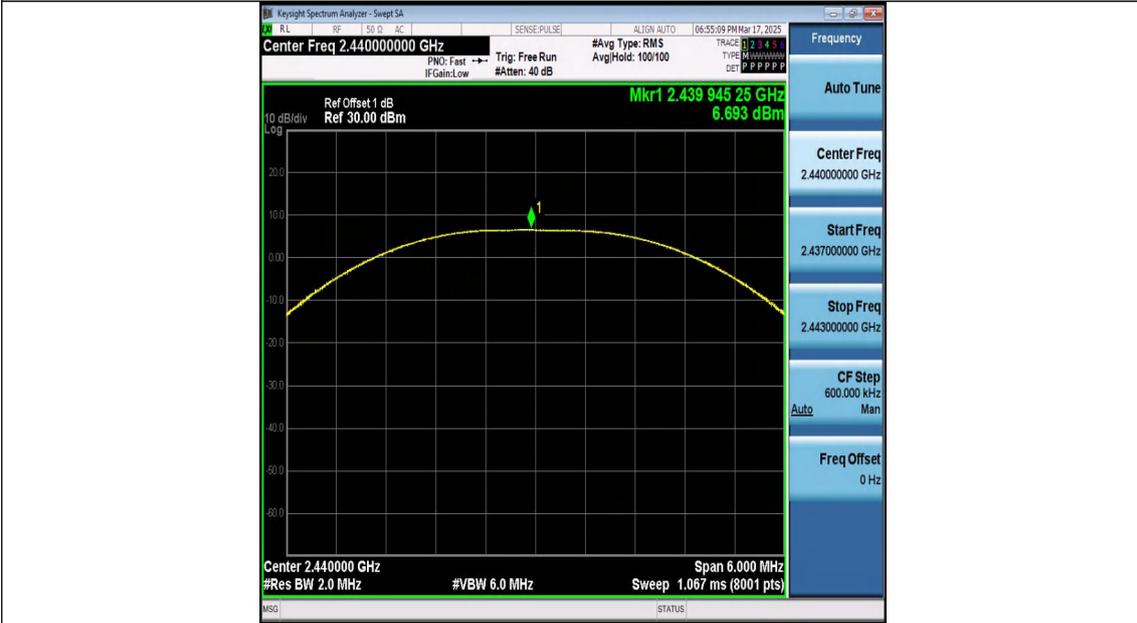
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BLE\_2M-Ant1-2402-PASS

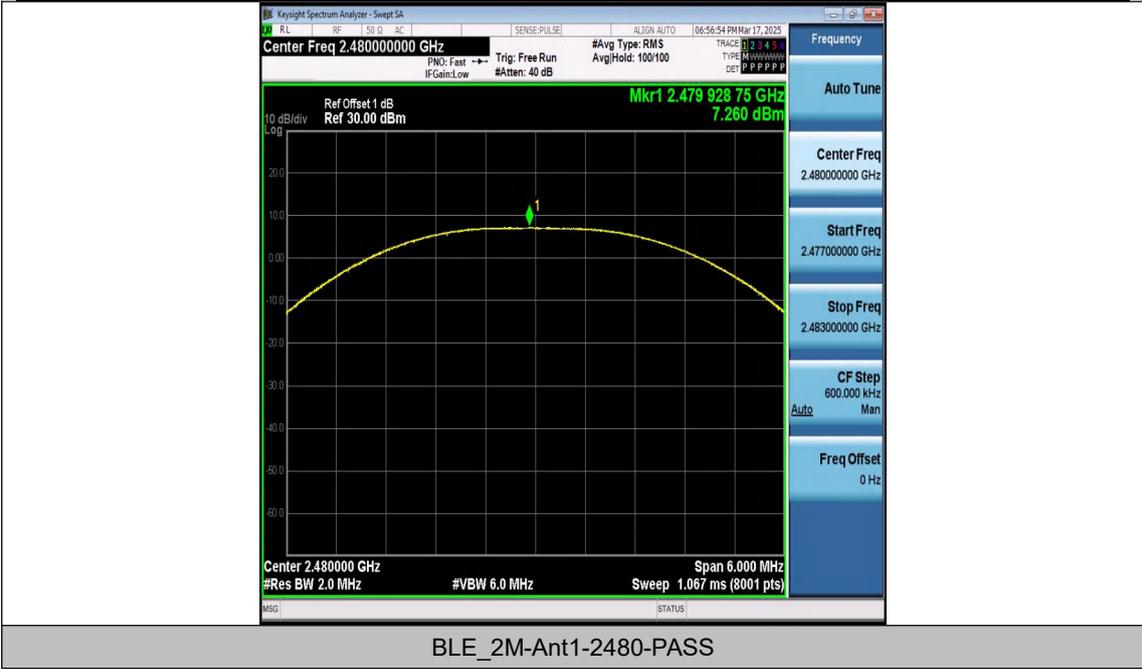


BLE\_2M-Ant1-2440-PASS

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## Appendix D: Maximum power spectral density

### Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/30kHz]	Final Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	1.41	-8.59	≤8.00	PASS
BLE_1M	Ant1	2440	3.54	-6.46	≤8.00	PASS
BLE_1M	Ant1	2480	3.52	-6.48	≤8.00	PASS
BLE_2M	Ant1	2402	2.23	-7.77	≤8.00	PASS
BLE_2M	Ant1	2440	3.44	-6.56	≤8.00	PASS
BLE_2M	Ant1	2480	4.11	-5.89	≤8.00	PASS

Note: Final Result[dBm/3kHz]=Result[dBm/30kHz]+10\*LOG10(3/30)



**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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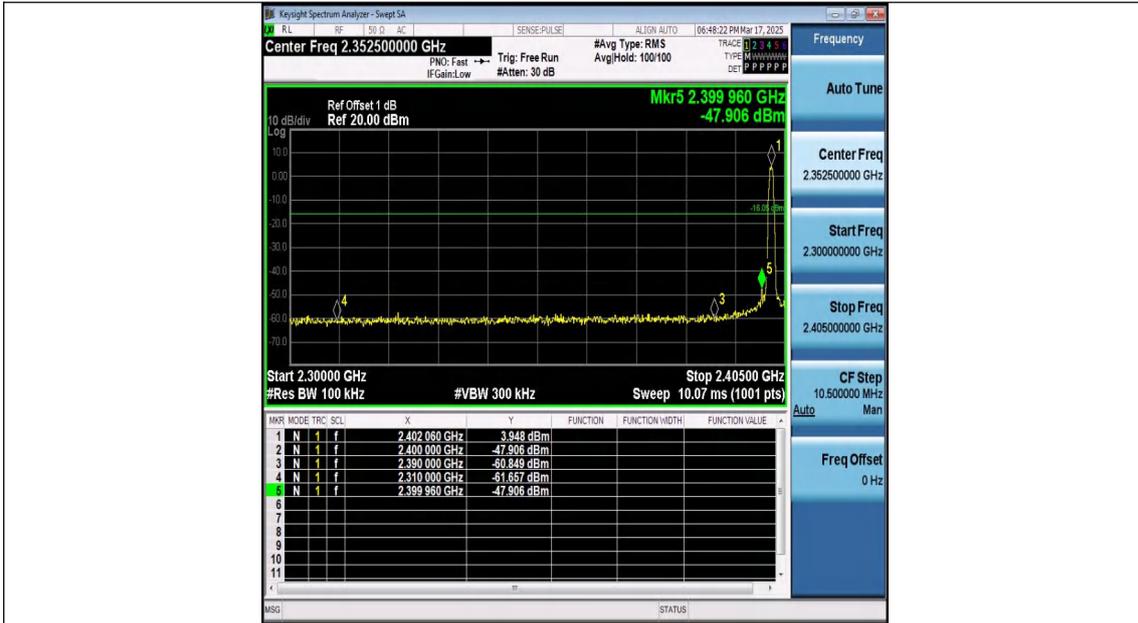
## Appendix E: Band edge measurements

### Test Result

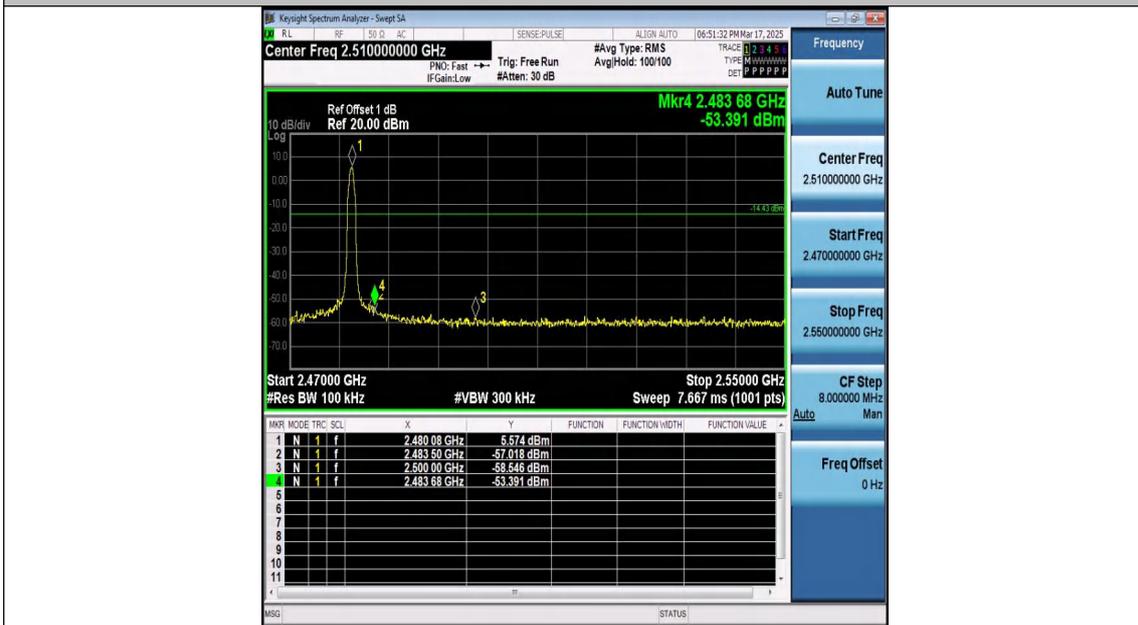
Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.95	-47.91	≤-16.05	PASS
BLE_1M	Ant1	High	2480	5.57	-53.39	≤-14.43	PASS
BLE_2M	Ant1	Low	2402	4.49	-45.68	≤-15.51	PASS
BLE_2M	Ant1	High	2480	6.02	-54.18	≤-13.98	PASS



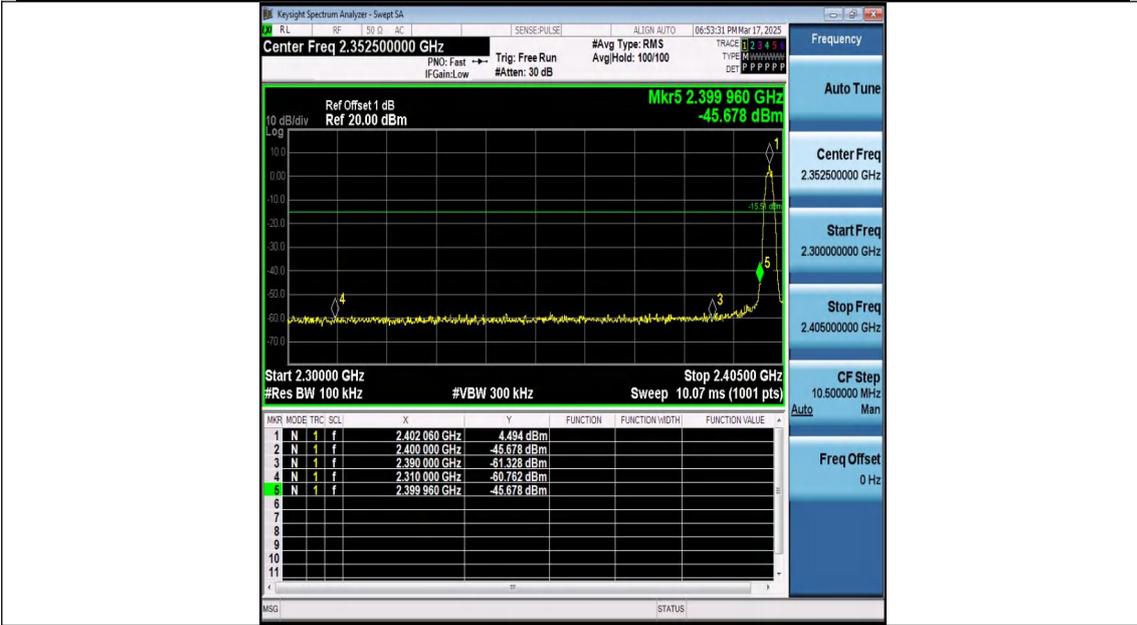
**Test Graphs**



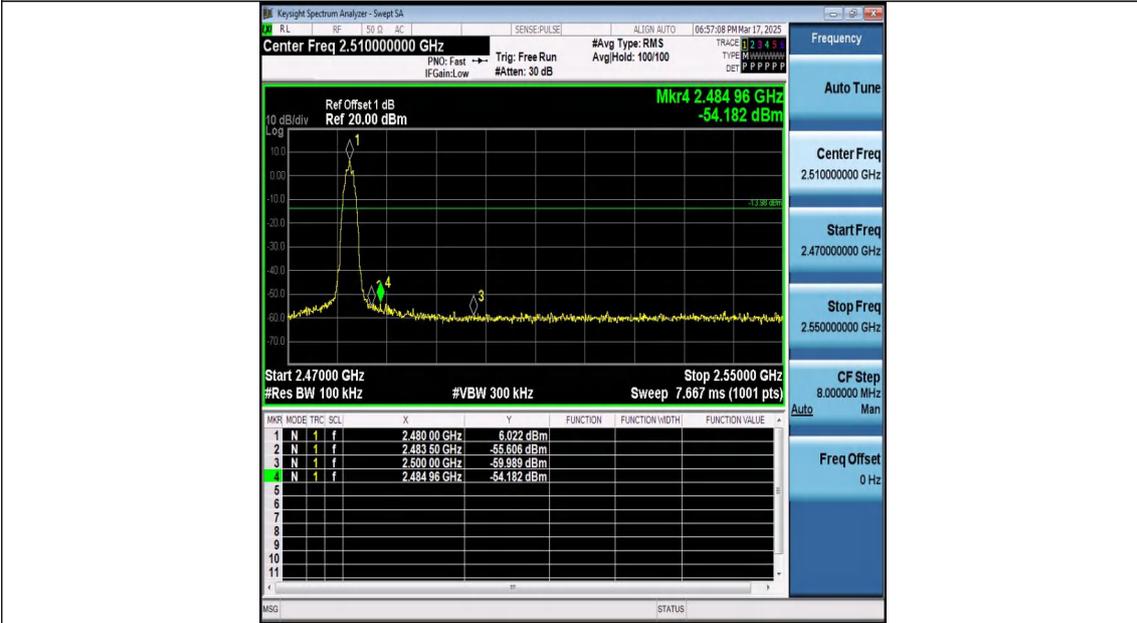
BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2480-PASS



BLE\_2M-Ant1-2402-PASS



BLE\_2M-Ant1-2480-PASS

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## Appendix F: Conducted Spurious Emission

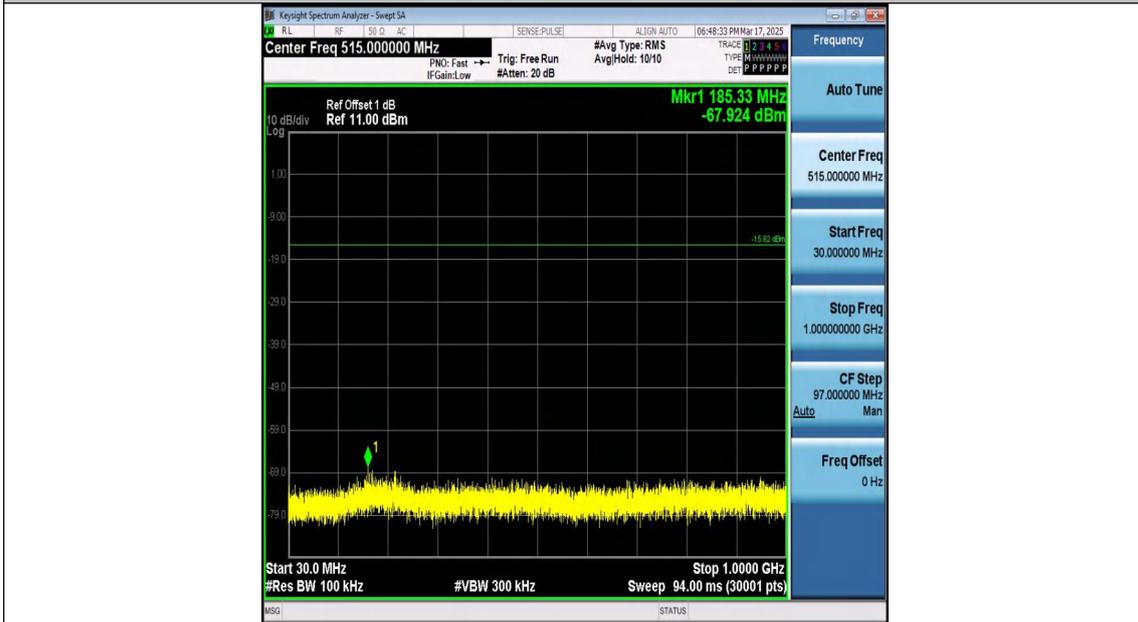
### Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	4.38	4.38	---	PASS
BLE_1M	Ant1	2402	30~1000	4.38	-67.92	≤-15.62	PASS
BLE_1M	Ant1	2402	1000~26500	4.38	-52.89	≤-15.62	PASS
BLE_1M	Ant1	2440	0~Reference	4.76	4.76	---	PASS
BLE_1M	Ant1	2440	30~1000	4.76	-69.46	≤-15.24	PASS
BLE_1M	Ant1	2440	1000~26500	4.76	-53.48	≤-15.24	PASS
BLE_1M	Ant1	2480	0~Reference	5.21	5.21	---	PASS
BLE_1M	Ant1	2480	30~1000	5.21	-68.28	≤-14.79	PASS
BLE_1M	Ant1	2480	1000~26500	5.21	-53.86	≤-14.79	PASS
BLE_2M	Ant1	2402	0~Reference	3.52	3.52	---	PASS
BLE_2M	Ant1	2402	30~1000	3.52	-68.61	≤-16.48	PASS
BLE_2M	Ant1	2402	1000~26500	3.52	-52.72	≤-16.48	PASS
BLE_2M	Ant1	2440	0~Reference	5.58	5.58	---	PASS
BLE_2M	Ant1	2440	30~1000	5.58	-69.06	≤-14.42	PASS
BLE_2M	Ant1	2440	1000~26500	5.58	-53.78	≤-14.42	PASS
BLE_2M	Ant1	2480	0~Reference	3.77	3.77	---	PASS
BLE_2M	Ant1	2480	30~1000	3.77	-69.67	≤-16.23	PASS
BLE_2M	Ant1	2480	1000~26500	3.77	-53.62	≤-16.23	PASS

**Test Graphs**



BLE\_1M-Ant1-2402-0~Reference-PASS

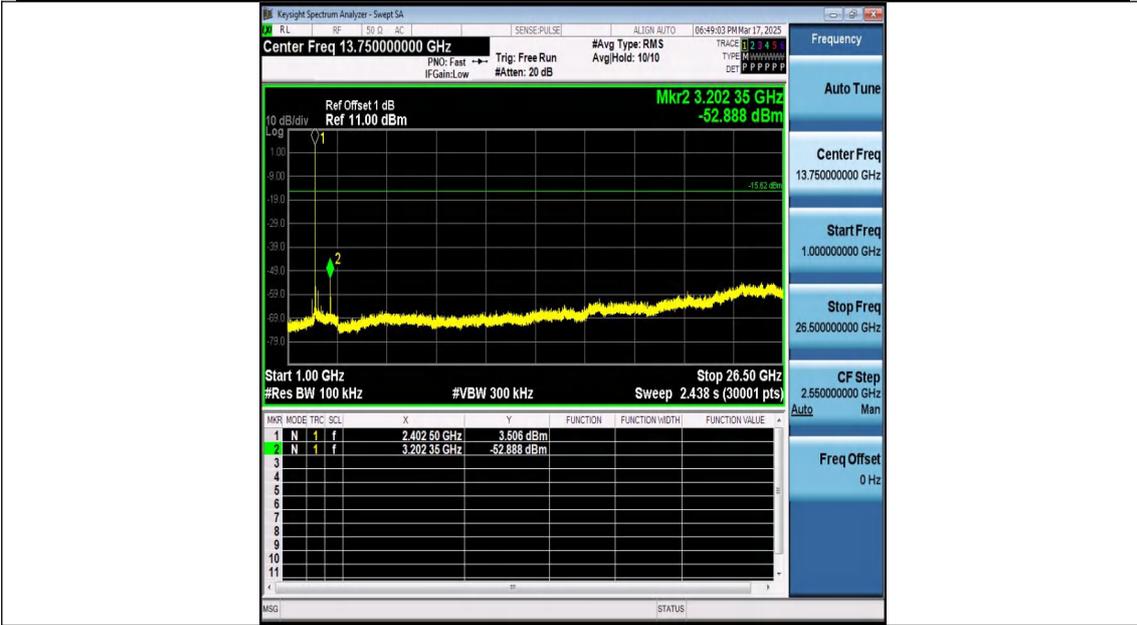


BLE\_1M-Ant1-2402-30~1000-PASS

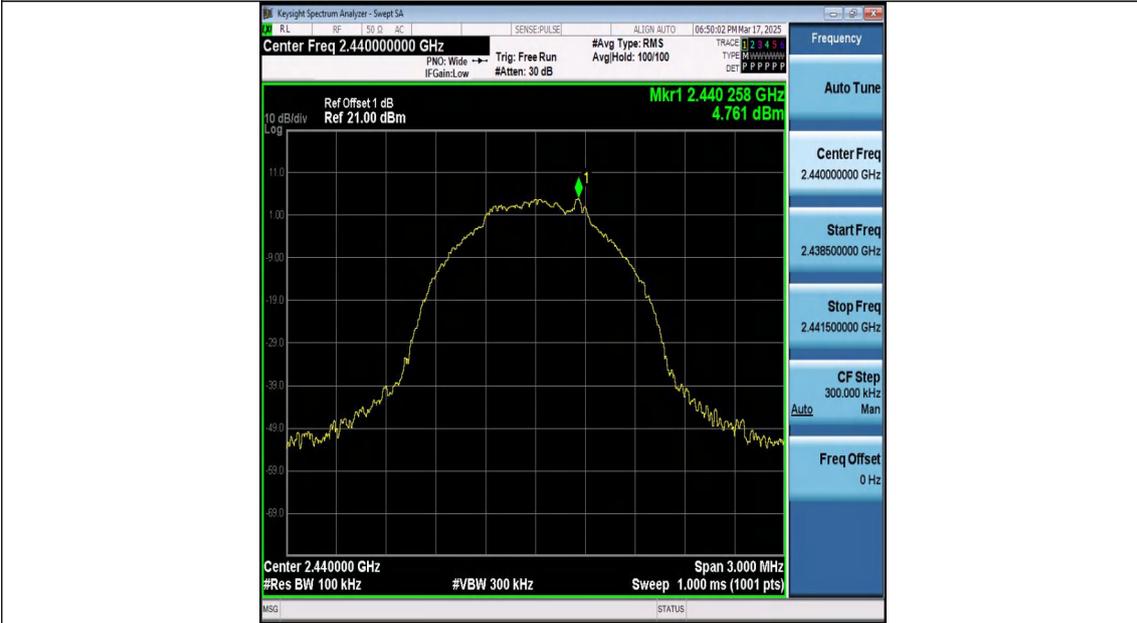
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BLE\_1M-Ant1-2402-1000~26500-PASS

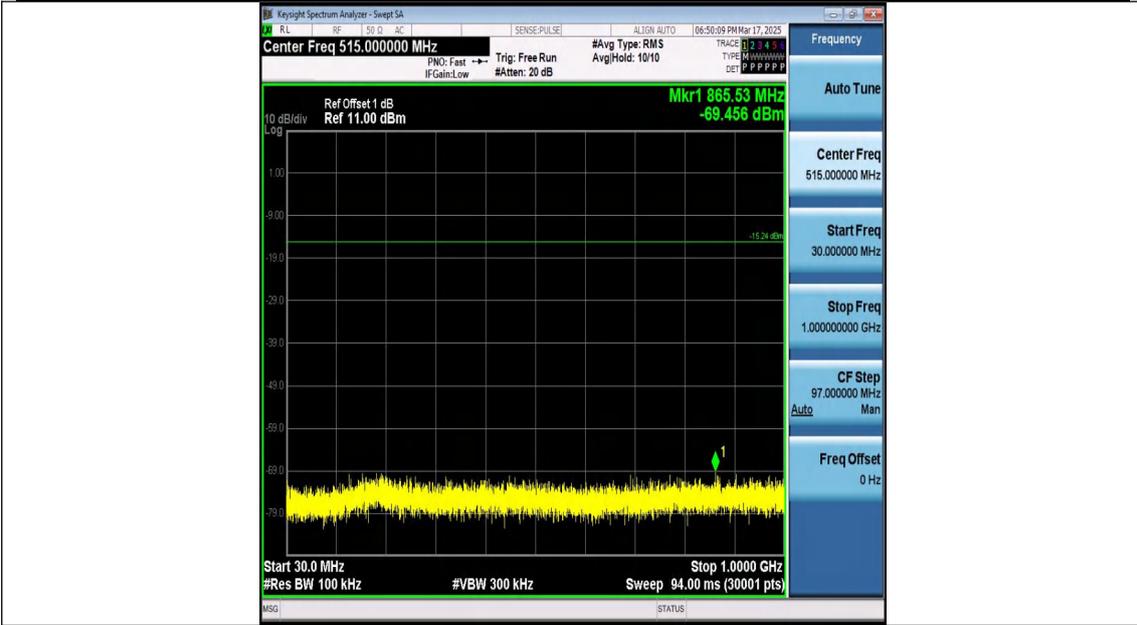


BLE\_1M-Ant1-2440-0~Reference-PASS

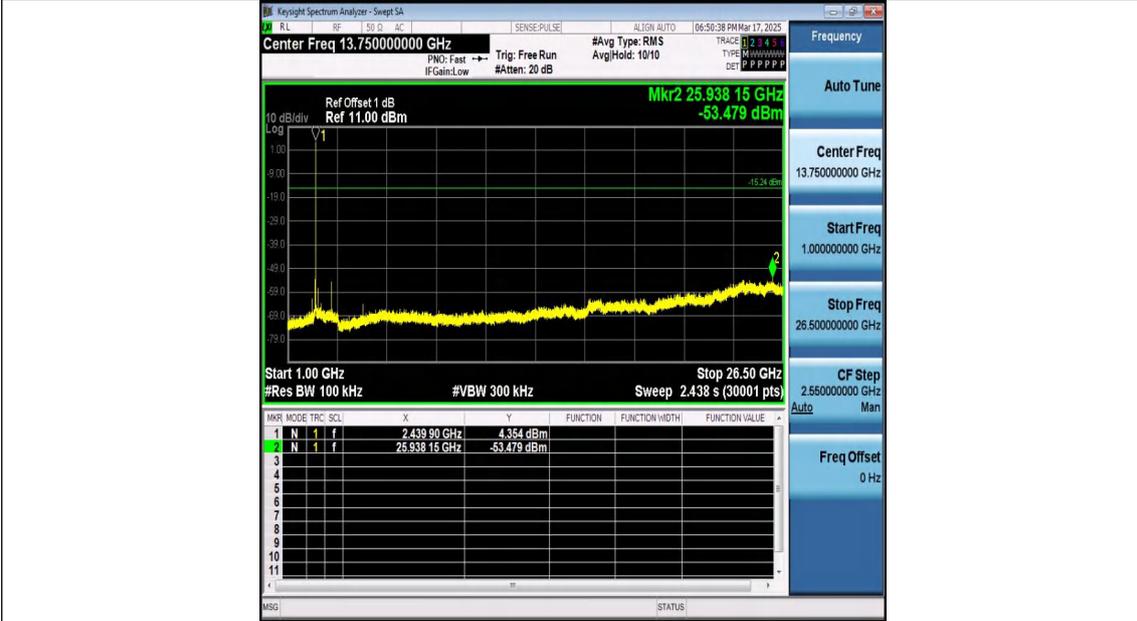
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BLE\_1M-Ant1-2440-30~1000-PASS



BLE\_1M-Ant1-2440-1000~26500-PASS

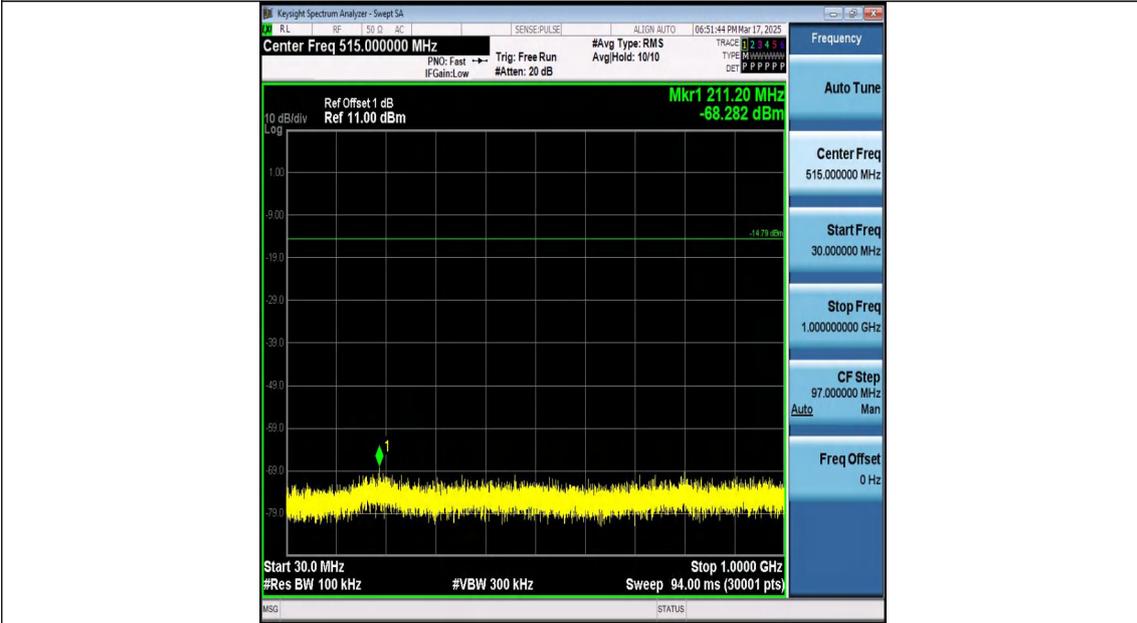
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BLE\_1M-Ant1-2480-0~Reference-PASS

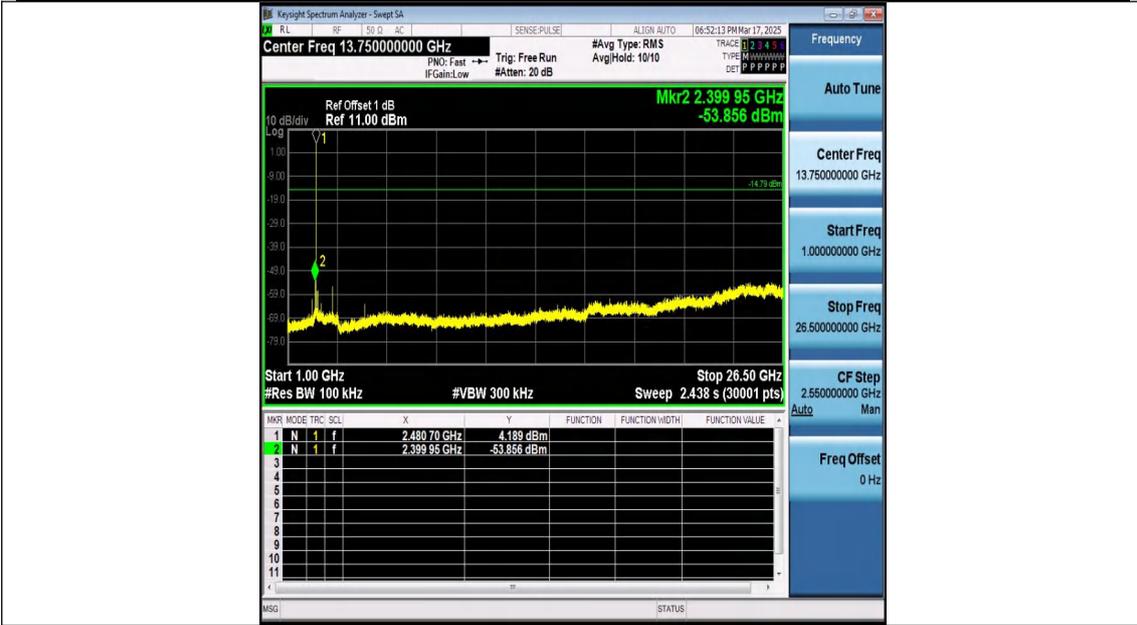


BLE\_1M-Ant1-2480-30~1000-PASS

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BLE\_1M-Ant1-2480-1000~26500-PASS

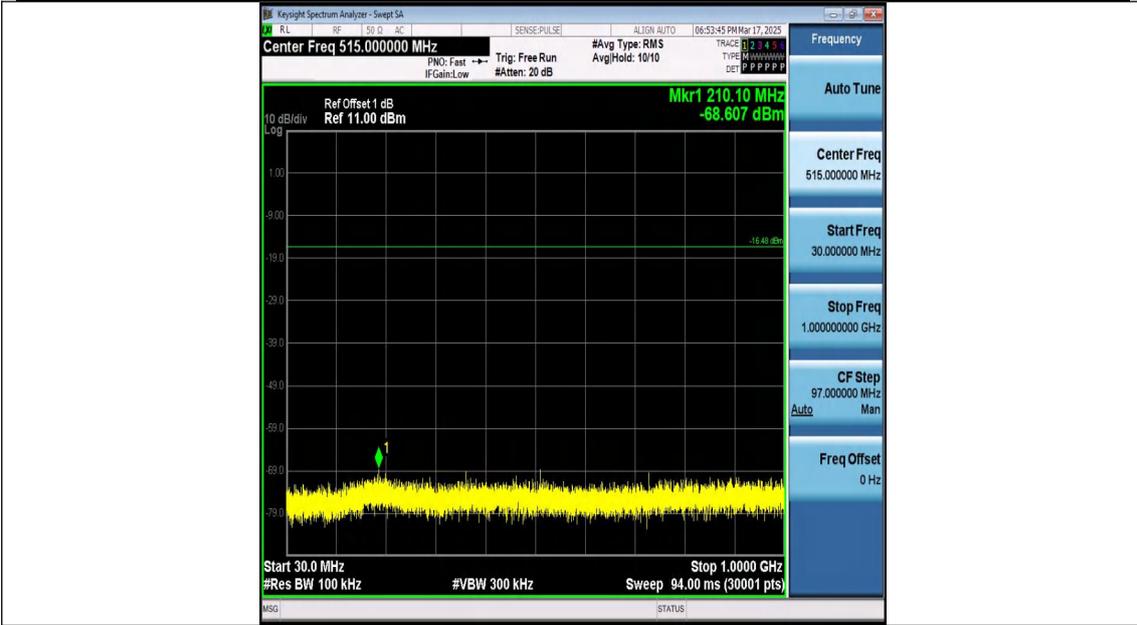


BLE\_2M-Ant1-2402-0~Reference-PASS

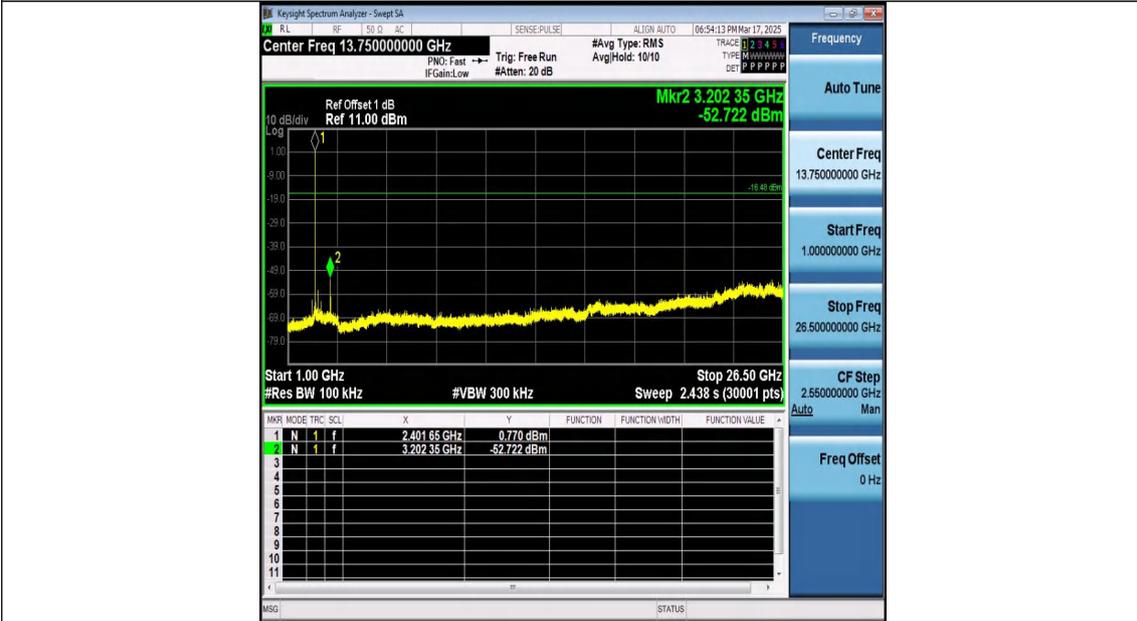
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BLE\_2M-Ant1-2402-30~1000-PASS



BLE\_2M-Ant1-2402-1000~26500-PASS

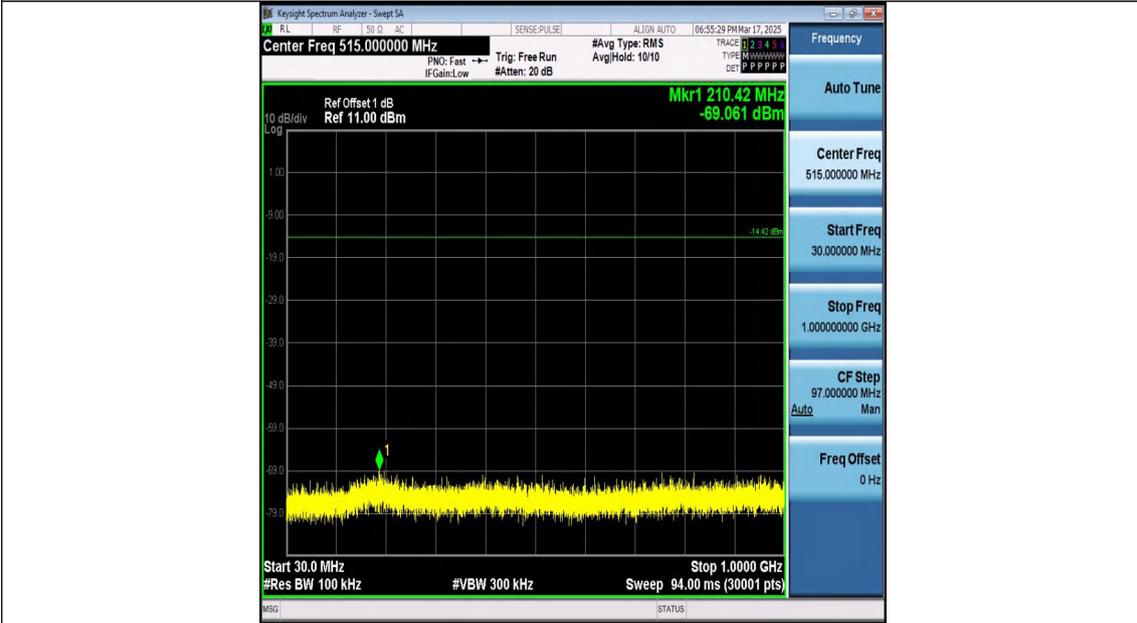
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BLE\_2M-Ant1-2440-0~Reference-PASS

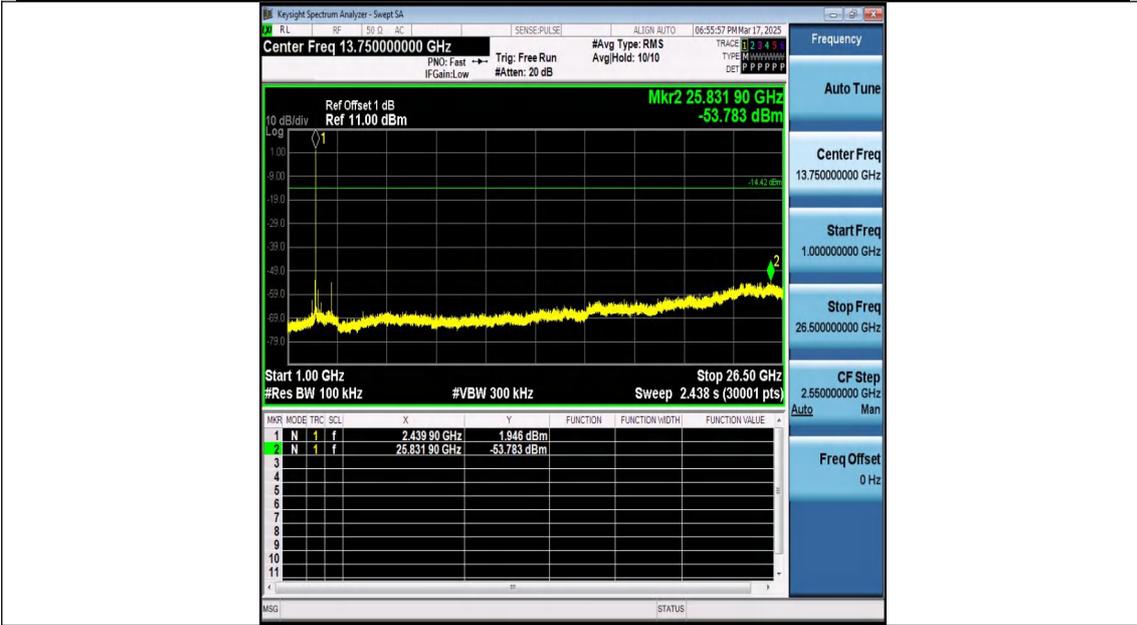


BLE\_2M-Ant1-2440-30~1000-PASS

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BLE\_2M-Ant1-2440-1000~26500-PASS

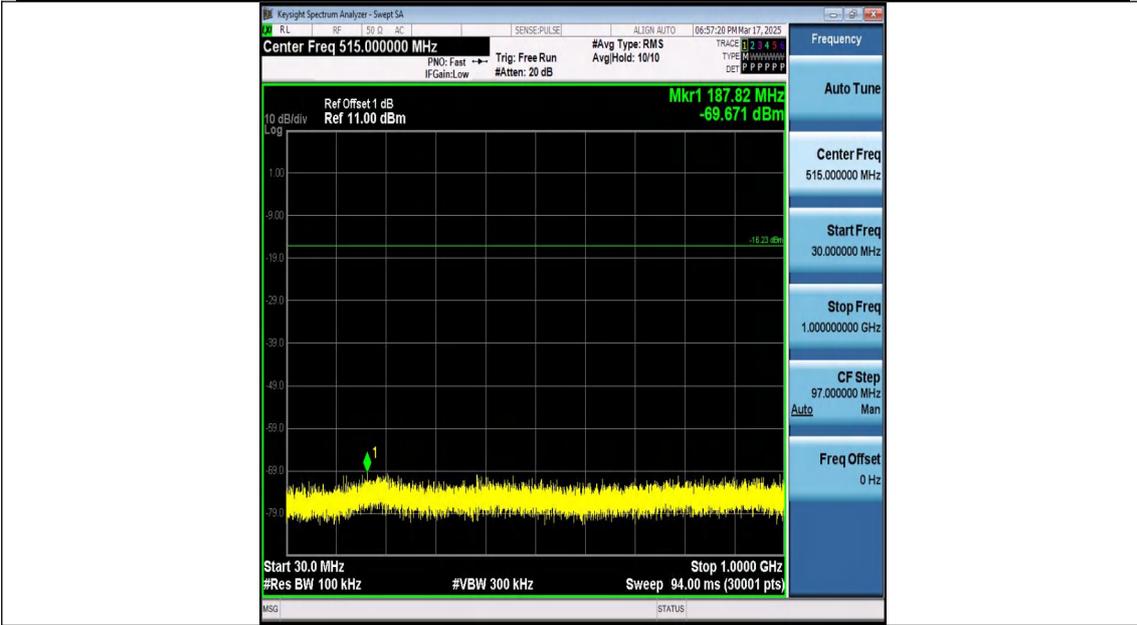


BLE\_2M-Ant1-2480-0~Reference-PASS

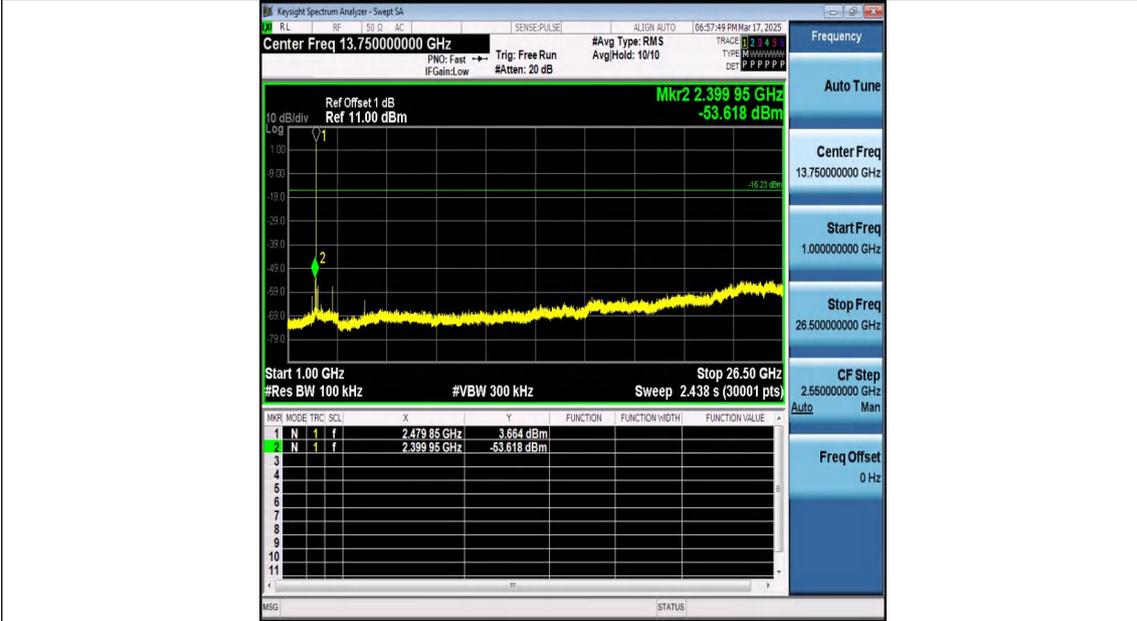
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BLE\_2M-Ant1-2480-30~1000-PASS



BLE\_2M-Ant1-2480-1000~26500-PASS

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## Appendix G: Duty Cycle

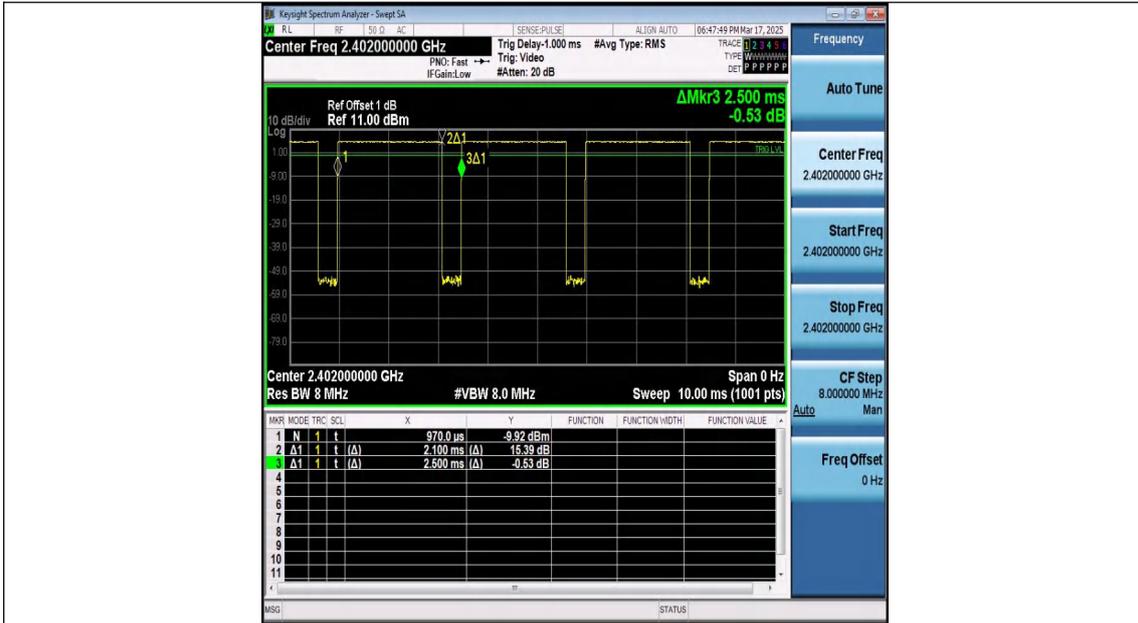
### Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.10	2.50	84.00	0.76
BLE_1M	Ant1	2440	2.10	2.50	84.00	0.76
BLE_1M	Ant1	2480	2.09	2.50	83.60	0.78
BLE_2M	Ant1	2402	1.06	1.87	56.68	2.47
BLE_2M	Ant1	2440	1.06	1.88	56.38	2.49
BLE_2M	Ant1	2480	1.06	1.87	56.68	2.47

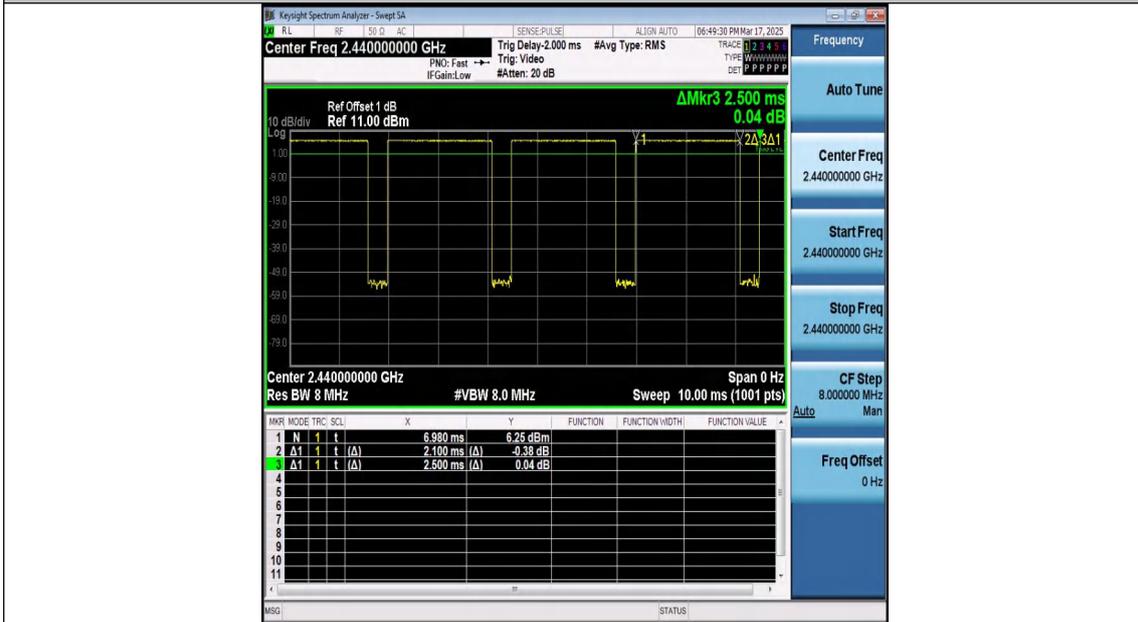
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**Test Graphs**



NTNV-BLE\_1M-Ant1-2402

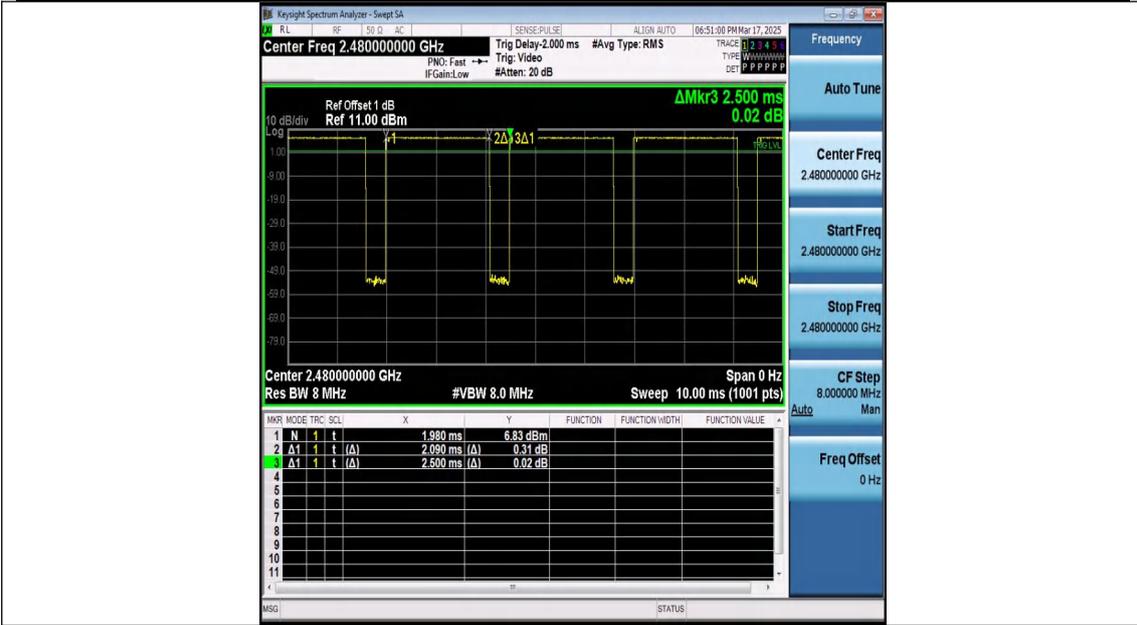


NTNV-BLE\_1M-Ant1-2440

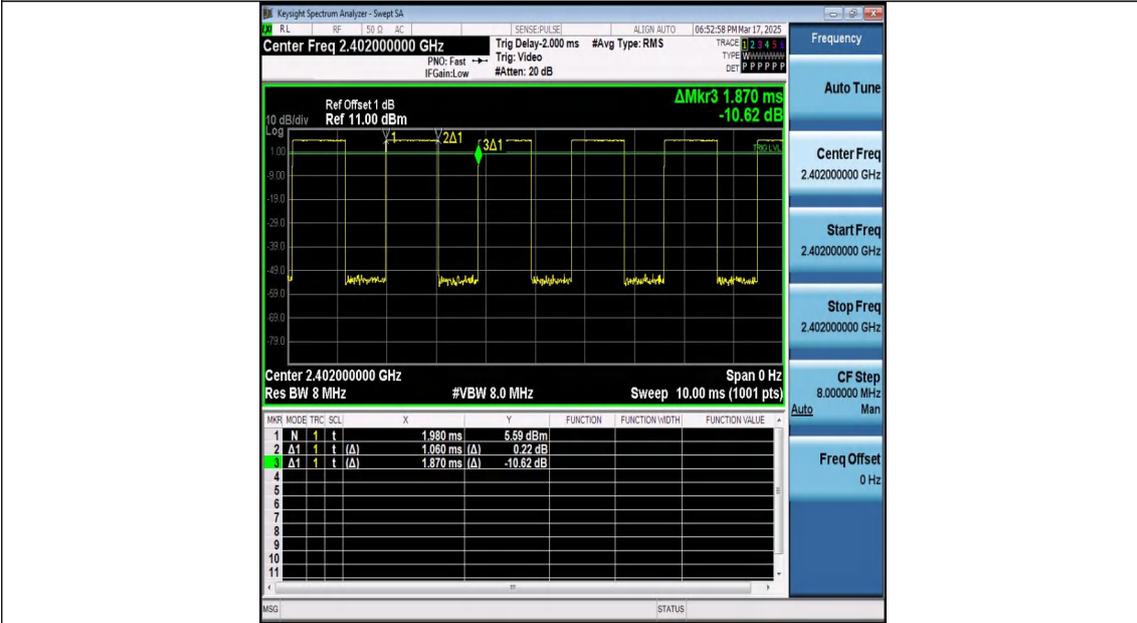
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NTNV-BLE\_1M-Ant1-2480

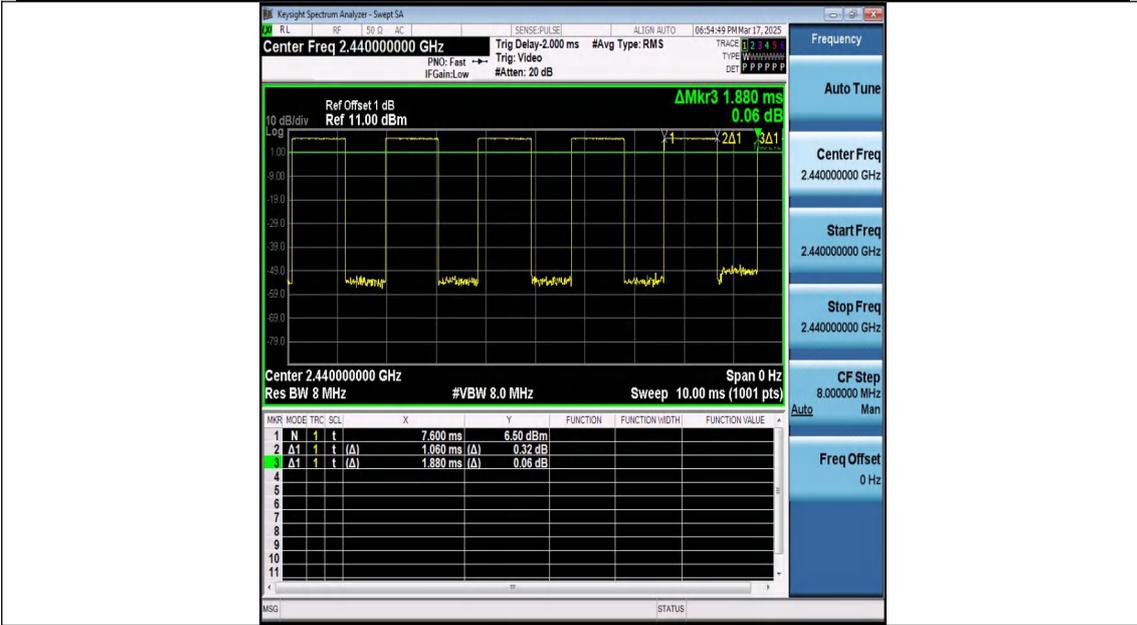


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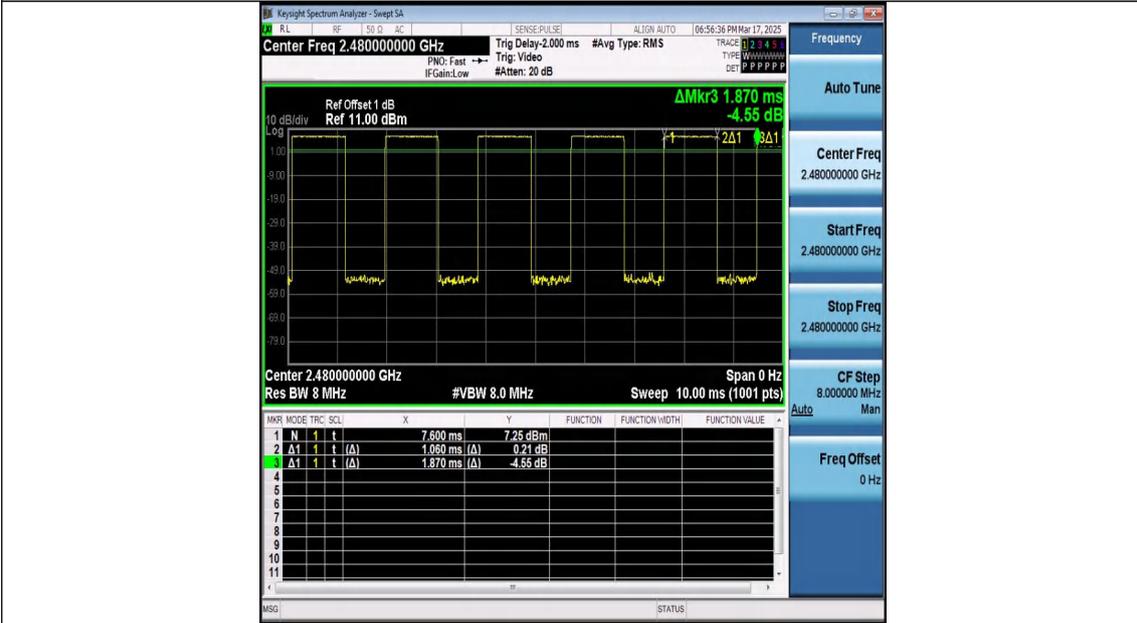
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