

## Appendix Test Data

Report No.:	182512C400374102	Test Sample No.:	1-2-2
Start Test Date:	2024.7.17	Finish Test Date:	2024.7.19
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24.3°C	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	0.728	2401.628	2402.356	0.5	PASS
BLE_1M	Ant1	2440	0.668	2439.656	2440.324	0.5	PASS
BLE_1M	Ant1	2480	0.660	2479.664	2480.324	0.5	PASS
BLE_2M	Ant1	2402	1.104	2401.448	2402.552	0.5	PASS
BLE_2M	Ant1	2440	1.116	2439.444	2440.560	0.5	PASS
BLE_2M	Ant1	2480	1.196	2479.388	2480.584	0.5	PASS

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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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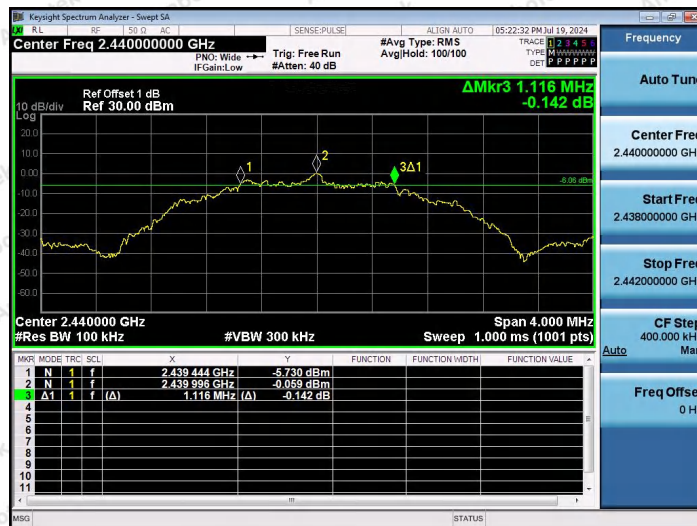
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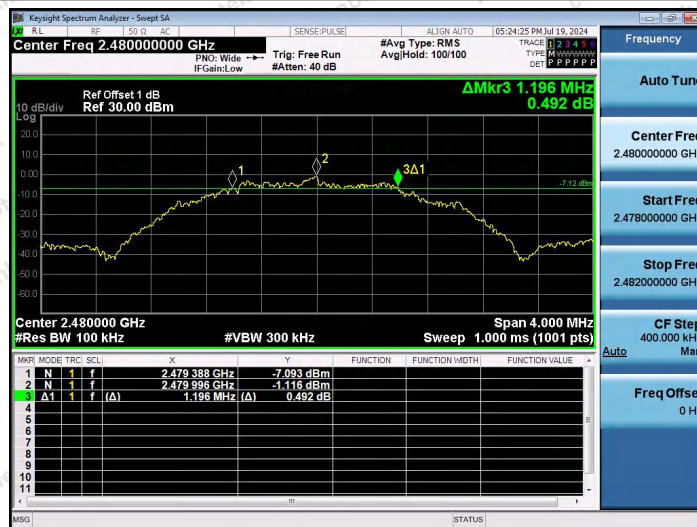




BLE\_2M-Ant1-2402-PASS



BLE\_2M-Ant1-2440-PASS



BLE\_2M-Ant1-2480-PASS

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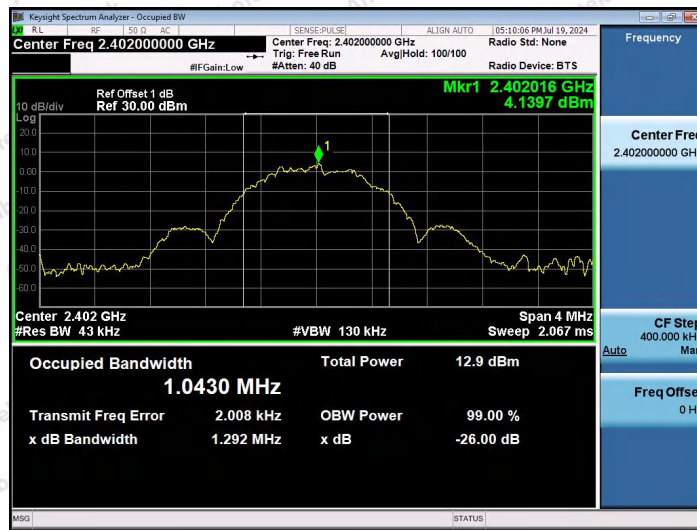
## Appendix B: 99% Occupied Bandwidth

### Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0430	2401.4805	2402.5235	---	---
BLE_1M	Ant1	2440	1.0473	2439.4796	2440.5269	---	---
BLE_1M	Ant1	2480	1.0365	2479.4831	2480.5196	---	---
BLE_2M	Ant1	2402	2.0474	2400.9998	2403.0472	---	---
BLE_2M	Ant1	2440	2.0498	2438.9927	2441.0425	---	---
BLE_2M	Ant1	2480	2.0569	2478.9851	2481.0420	---	---



## 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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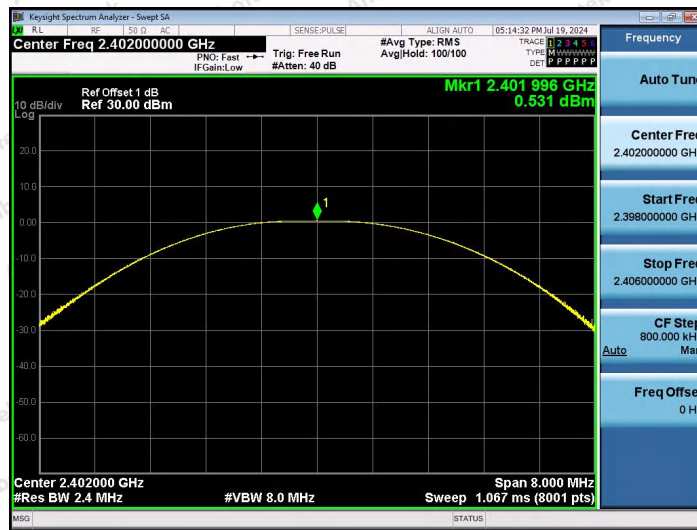
## Appendix C: Maximum conducted output power

### Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.53	≤30	PASS
BLE_1M	Ant1	2440	0.15	≤30	PASS
BLE_1M	Ant1	2480	0.20	≤30	PASS
BLE_2M	Ant1	2402	0.56	≤30	PASS
BLE_2M	Ant1	2440	0.16	≤30	PASS
BLE_2M	Ant1	2480	0.21	≤30	PASS



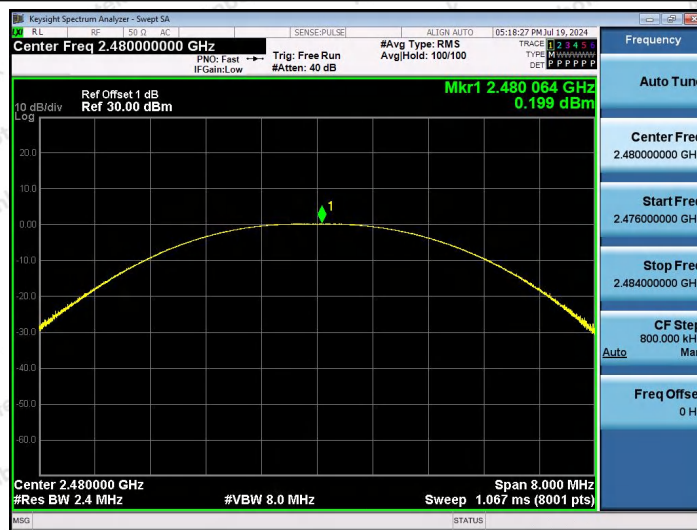
## Test Graphs Peak



BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2440-PASS



BLE\_1M-Ant1-2480-PASS

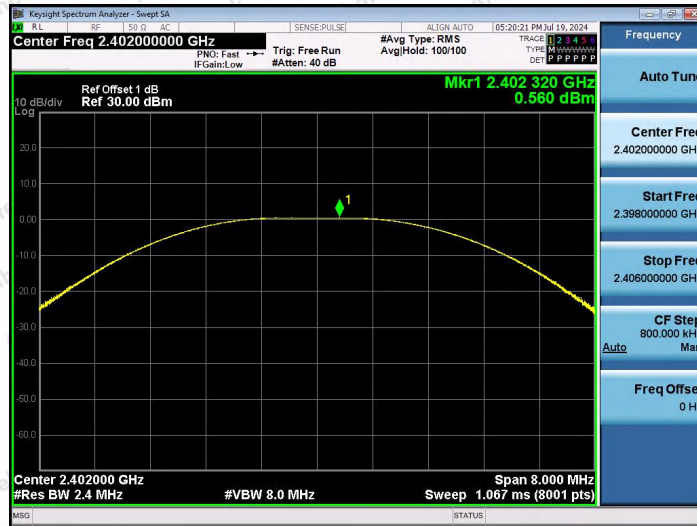
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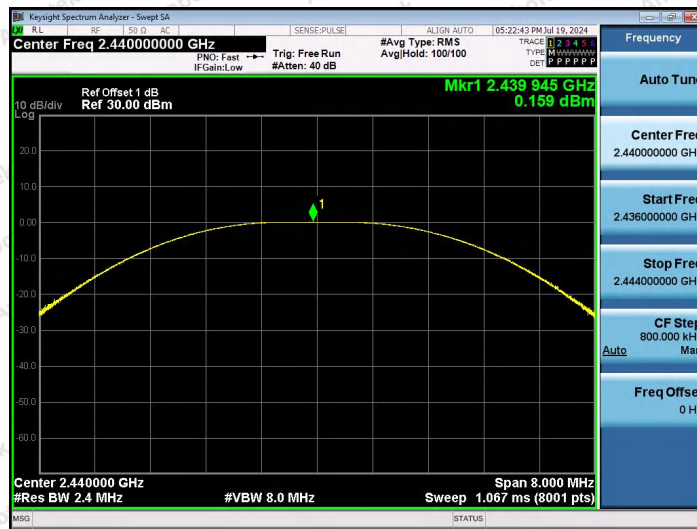
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BLE\_2M-Ant1-2402-PASS



BLE\_2M-Ant1-2440-PASS



BLE\_2M-Ant1-2480-PASS

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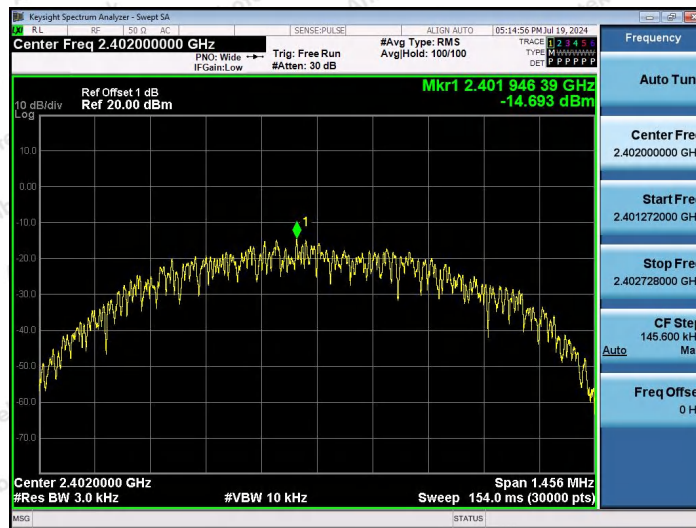
## Appendix D: Maximum power spectral density

### Test Result

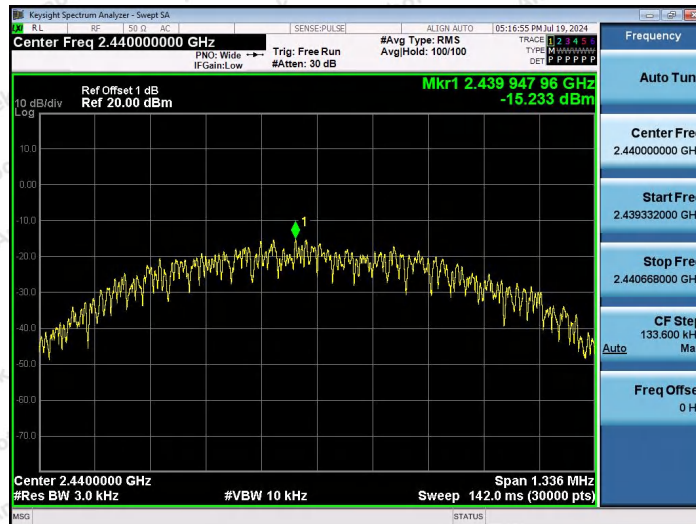
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.69	≤8.00	PASS
BLE_1M	Ant1	2440	-15.23	≤8.00	PASS
BLE_1M	Ant1	2480	-15.55	≤8.00	PASS
BLE_2M	Ant1	2402	-17.24	≤8.00	PASS
BLE_2M	Ant1	2440	-17.60	≤8.00	PASS
BLE_2M	Ant1	2480	-17.54	≤8.00	PASS



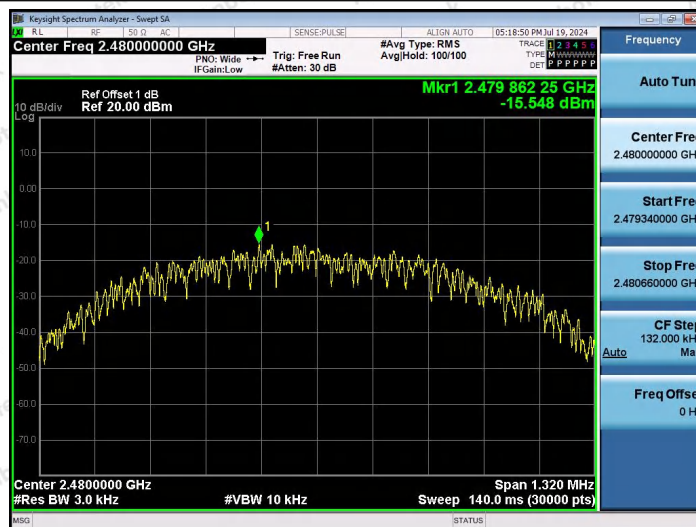
## Test Graphs



BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2440-PASS



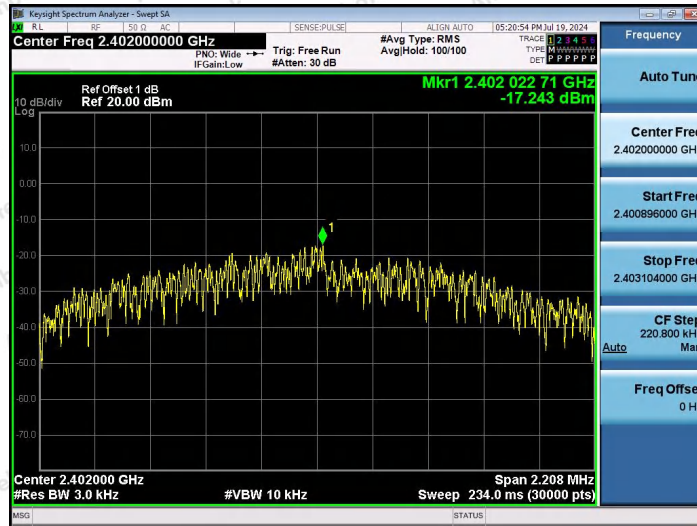
BLE\_1M-Ant1-2480-PASS

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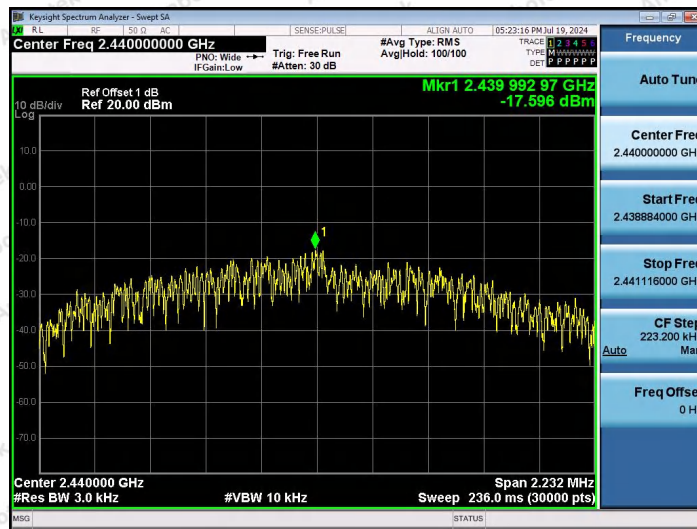
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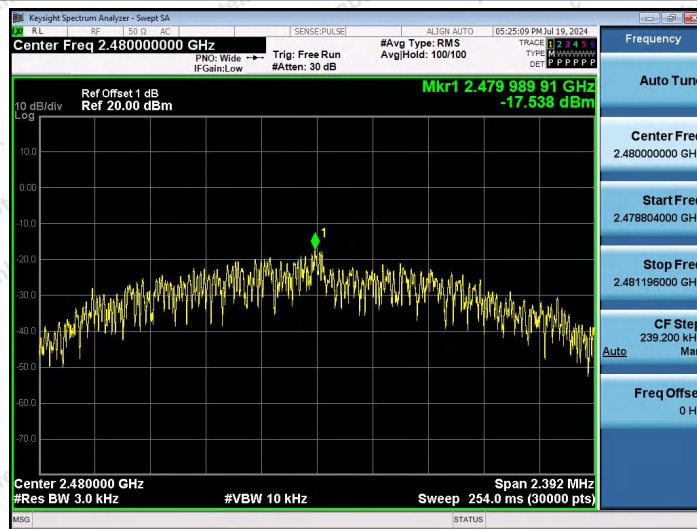




BLE\_2M-Ant1-2402-PASS



BLE\_2M-Ant1-2440-PASS



BLE\_2M-Ant1-2480-PASS

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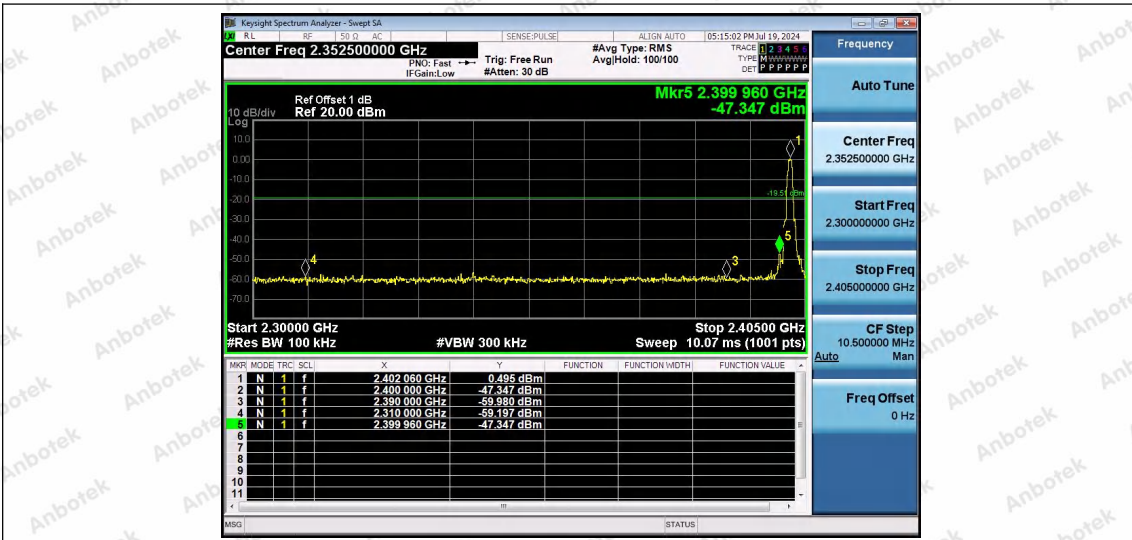
## Appendix E: Band edge measurements

### Test Result

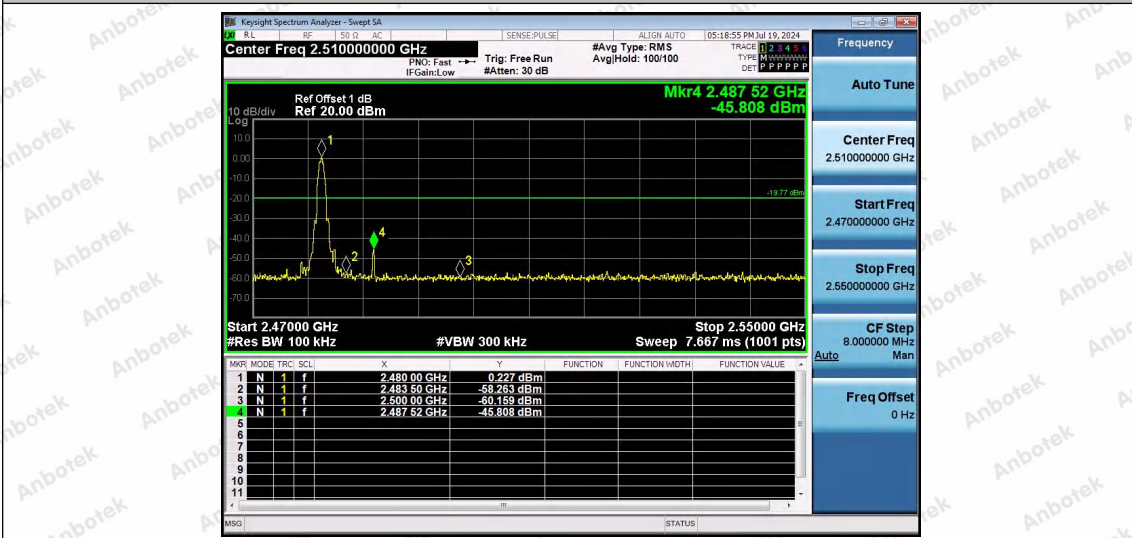
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.50	-47.35	≤-19.51	PASS
BLE_1M	Ant1	High	2480	0.23	-45.81	≤-19.77	PASS
BLE_2M	Ant1	Low	2402	0.54	-32.92	≤-19.46	PASS
BLE_2M	Ant1	High	2480	0.20	-45.8	≤-19.8	PASS



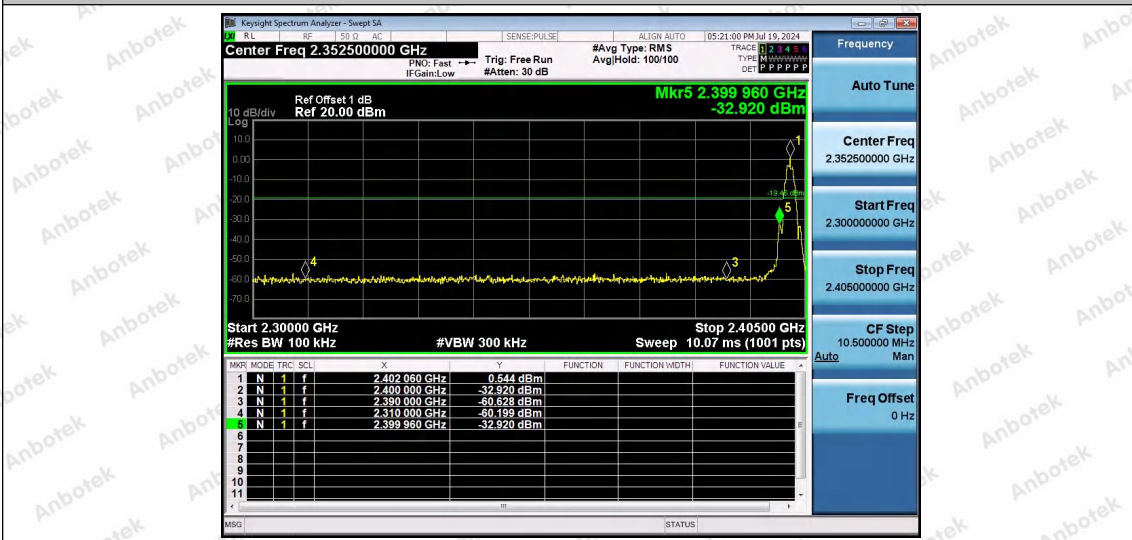
## Test Graphs



BLE\_1M-Ant1-2402-PASS



BLE\_1M-Ant1-2480-PASS



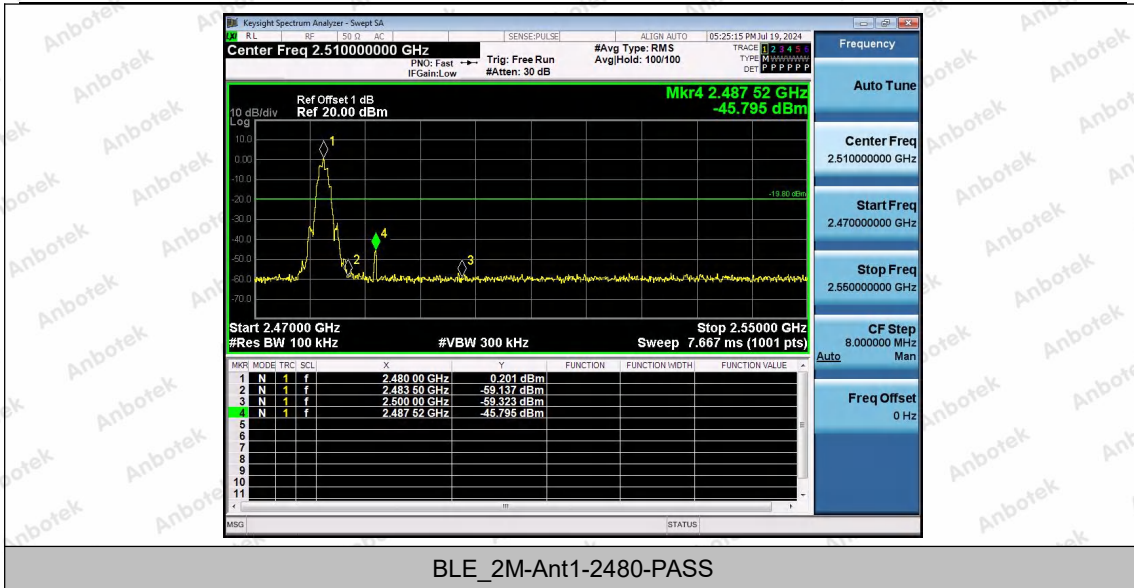
BLE\_2M-Ant1-2402-PASS

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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	-1.11	-1.11	---	PASS
BLE_1M	Ant1	2402	30~1000	-1.11	-69.13	≤-21.11	PASS
BLE_1M	Ant1	2402	1000~26500	-1.11	-52.81	≤-21.11	PASS
BLE_1M	Ant1	2440	0~Reference	-1.21	-1.21	---	PASS
BLE_1M	Ant1	2440	30~1000	-1.21	-68.82	≤-21.21	PASS
BLE_1M	Ant1	2440	1000~26500	-1.21	-53.01	≤-21.21	PASS
BLE_1M	Ant1	2480	0~Reference	-0.21	-0.21	---	PASS
BLE_1M	Ant1	2480	30~1000	-0.21	-68.09	≤-20.21	PASS
BLE_1M	Ant1	2480	1000~26500	-0.21	-53.35	≤-20.21	PASS
BLE_2M	Ant1	2402	0~Reference	-2.96	-2.96	---	PASS
BLE_2M	Ant1	2402	30~1000	-2.96	-68.33	≤-22.96	PASS
BLE_2M	Ant1	2402	1000~26500	-2.96	-52.8	≤-22.96	PASS
BLE_2M	Ant1	2440	0~Reference	-3.79	-3.79	---	PASS
BLE_2M	Ant1	2440	30~1000	-3.79	-69.26	≤-23.79	PASS
BLE_2M	Ant1	2440	1000~26500	-3.79	-53.6	≤-23.79	PASS
BLE_2M	Ant1	2480	0~Reference	-2.45	-2.45	---	PASS
BLE_2M	Ant1	2480	30~1000	-2.45	-68.3	≤-22.45	PASS
BLE_2M	Ant1	2480	1000~26500	-2.45	-53.93	≤-22.45	PASS

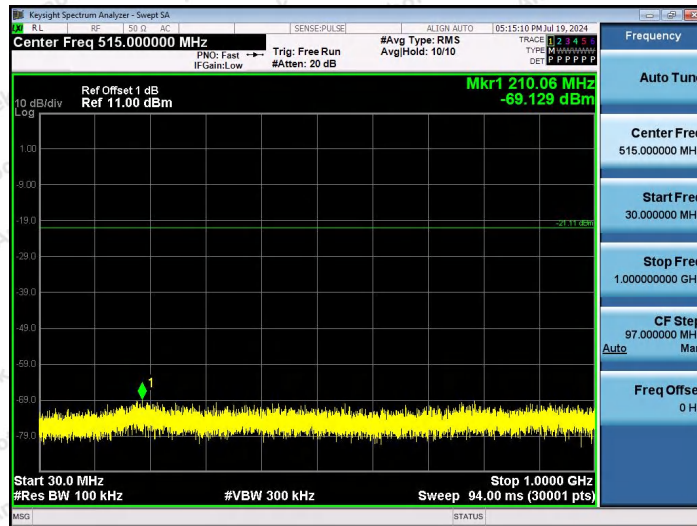




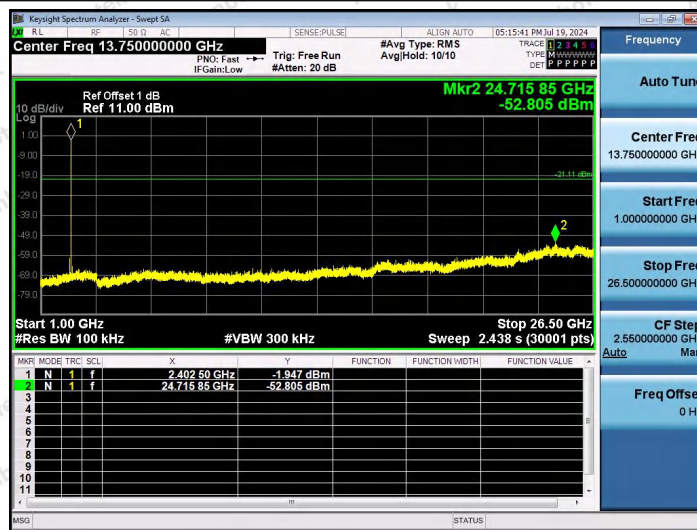
## Test Graphs



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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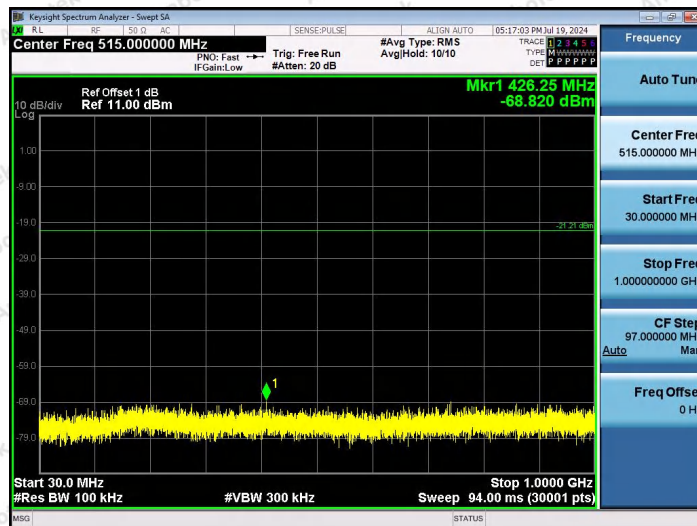
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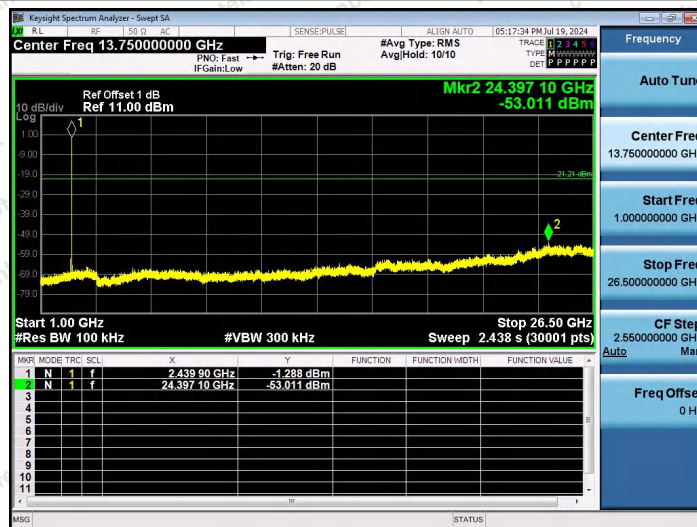




BLE\_1M-Ant1-2440-0~Reference-PASS



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



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

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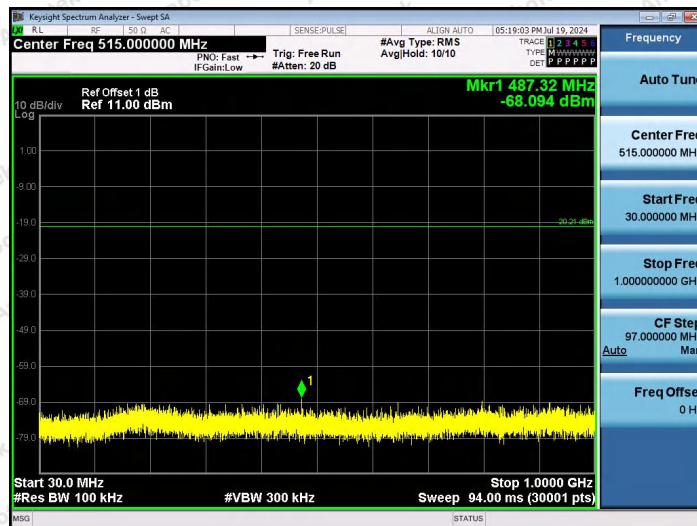
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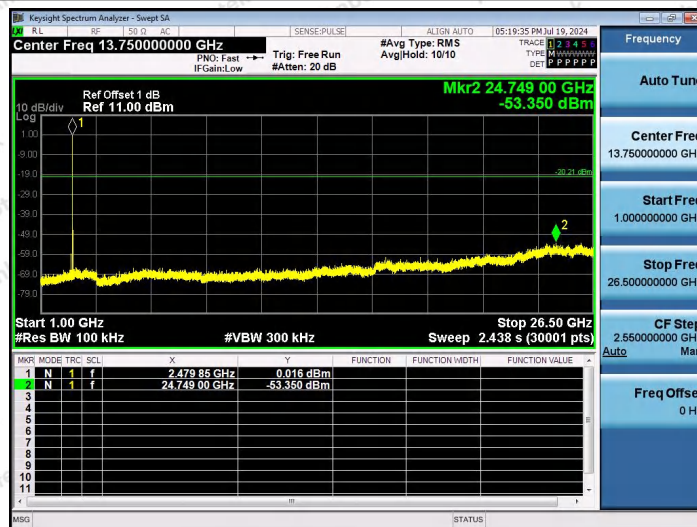




BLE\_1M-Ant1-2480-0~Reference-PASS



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



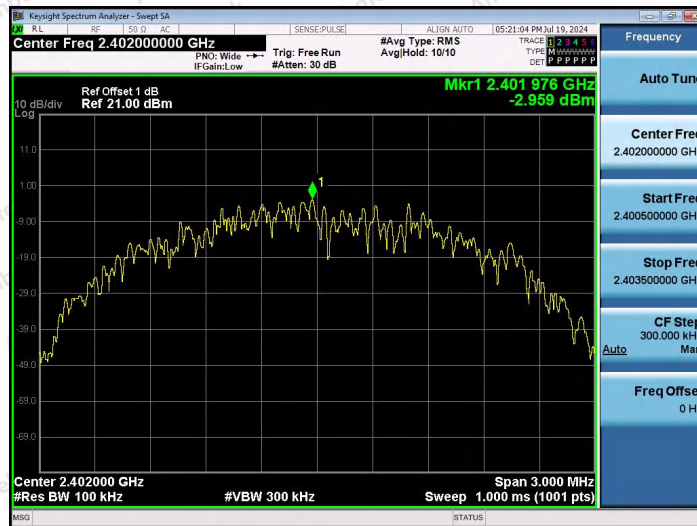
BLE\_1M-Ant1-2480-1000~26500-PASS

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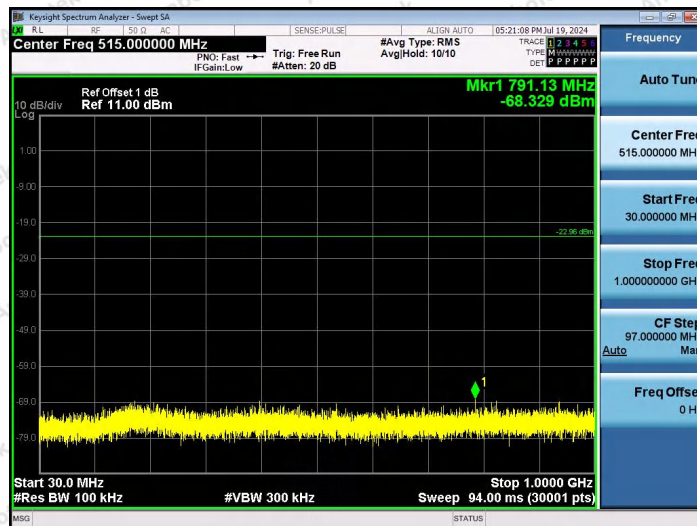
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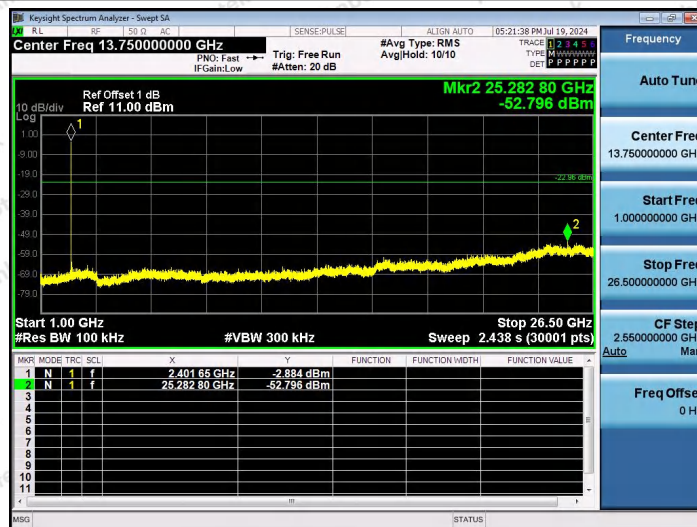




BLE\_2M-Ant1-2402-0~Reference-PASS



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



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

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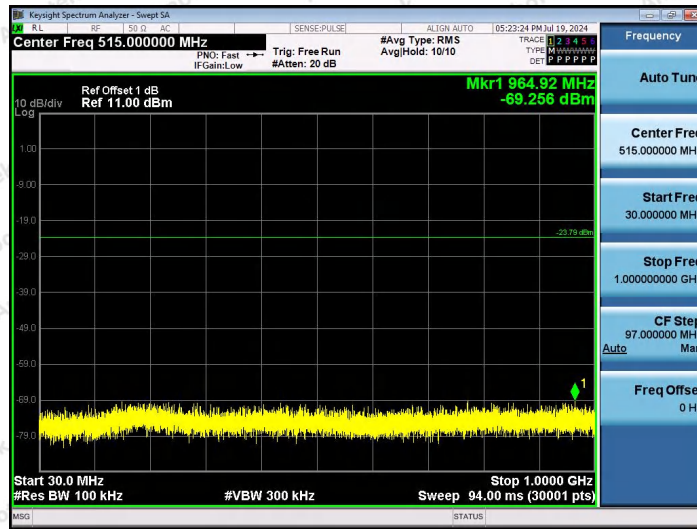
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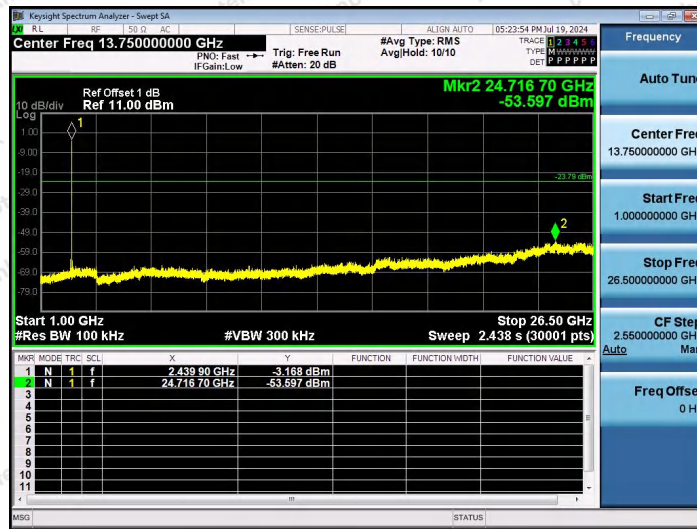




BLE\_2M-Ant1-2440-0~Reference-PASS



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



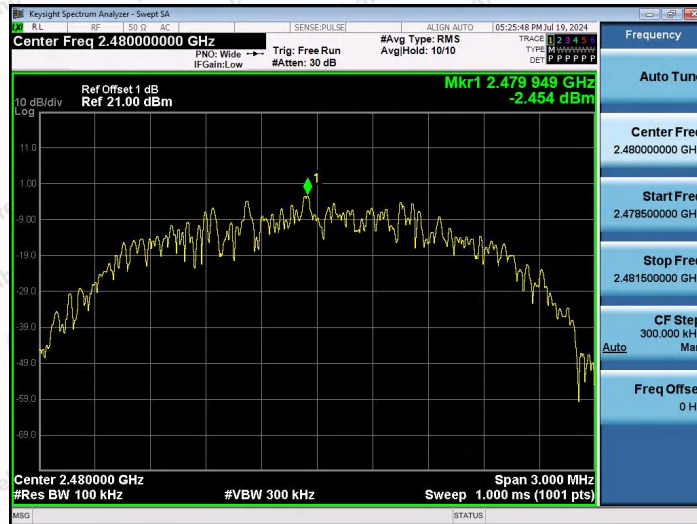
BLE\_2M-Ant1-2440-1000~26500-PASS

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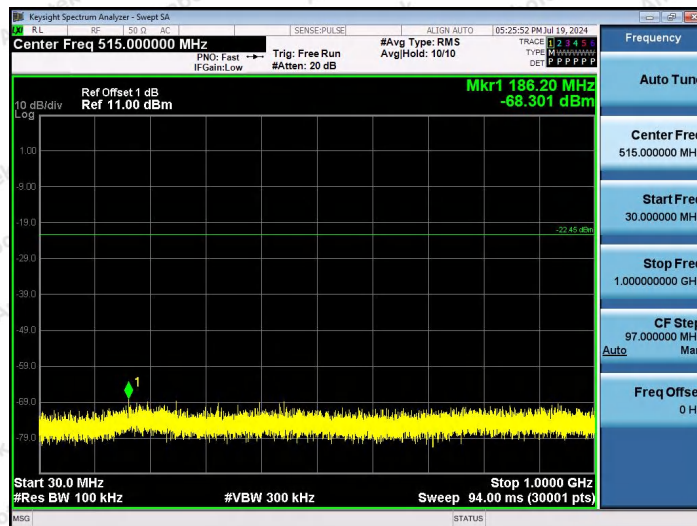
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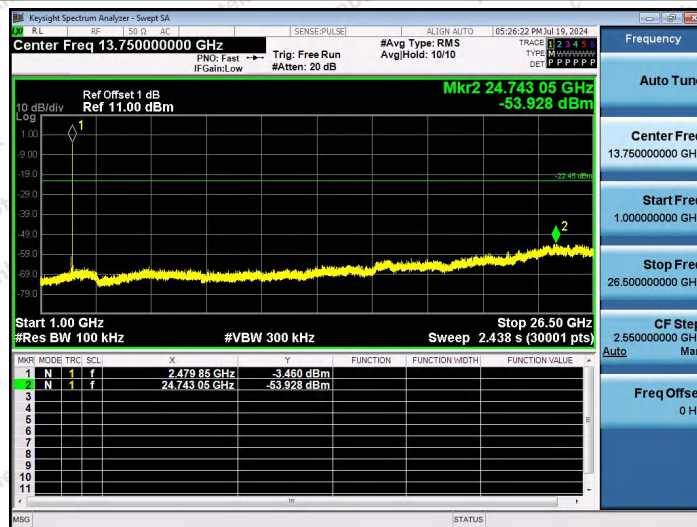




BLE\_2M-Ant1-2480-0~Reference-PASS



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	0.39	0.63	61.90	2.08
BLE_1M	Ant1	2440	0.39	0.63	61.90	2.08
BLE_1M	Ant1	2480	0.39	0.63	61.90	2.08
BLE_2M	Ant1	2402	0.21	0.63	33.33	4.77
BLE_2M	Ant1	2440	0.21	0.63	33.33	4.77
BLE_2M	Ant1	2480	0.21	0.63	33.33	4.77

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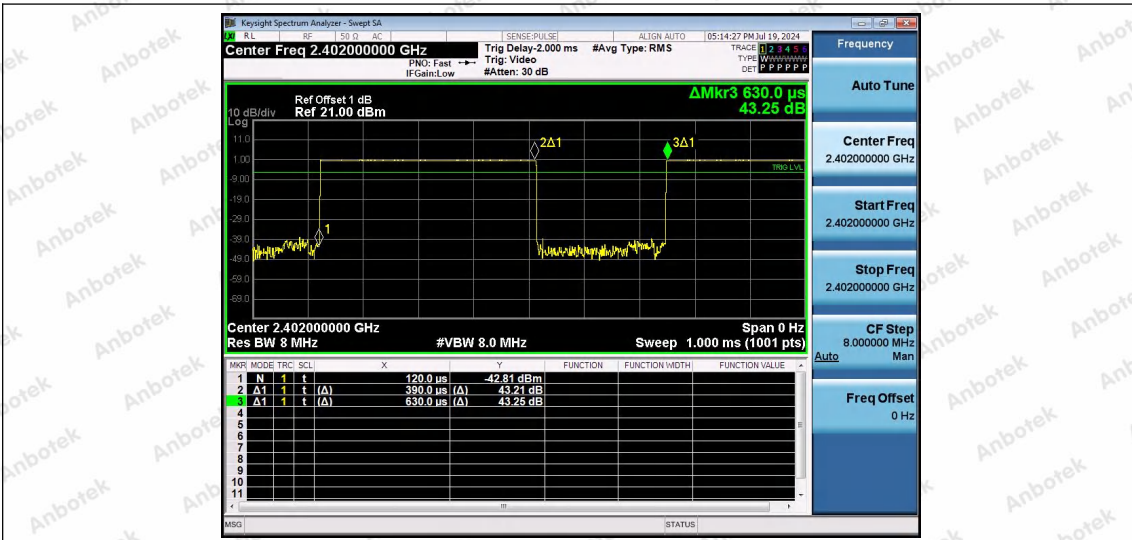
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



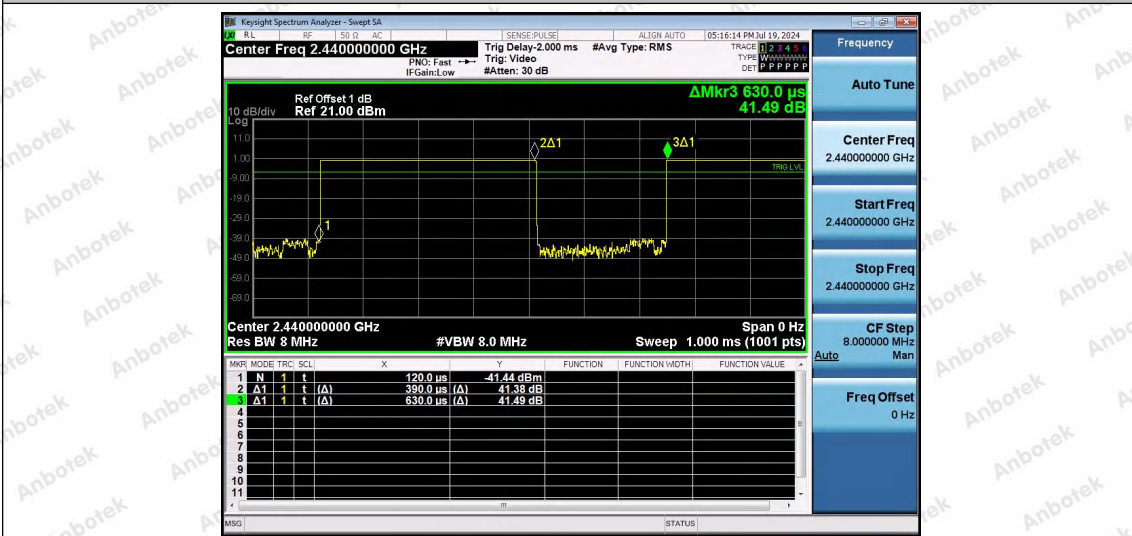
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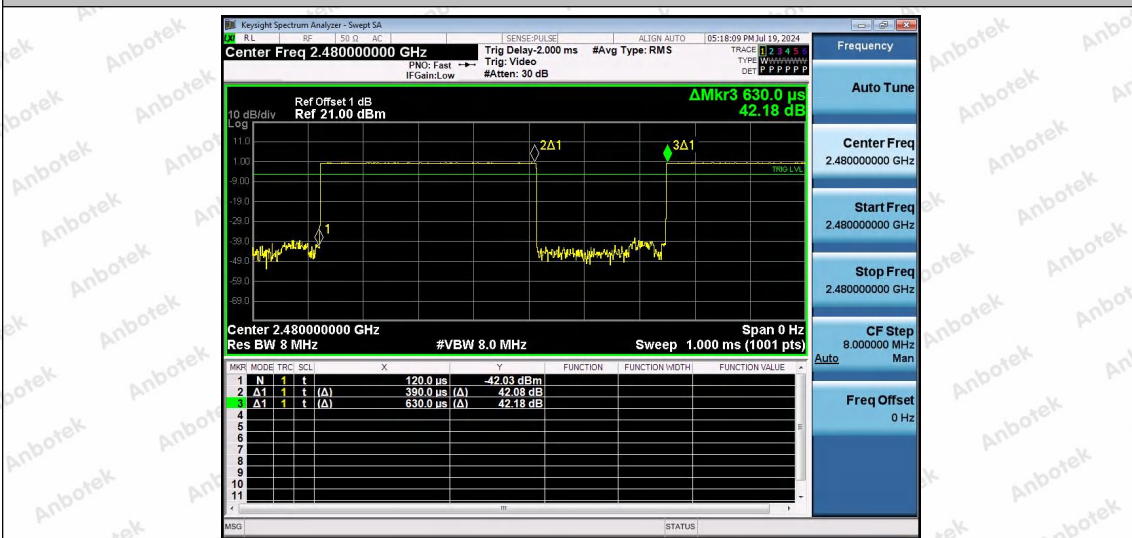
## Test Graphs



NTNV-BLE\_1M-Ant1-2402



NTNV-BLE\_1M-Ant1-2440



NTNV-BLE\_1M-Ant1-2480

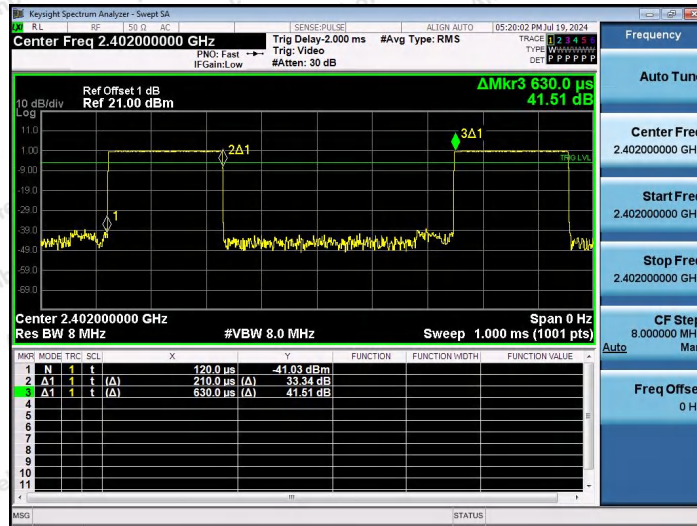
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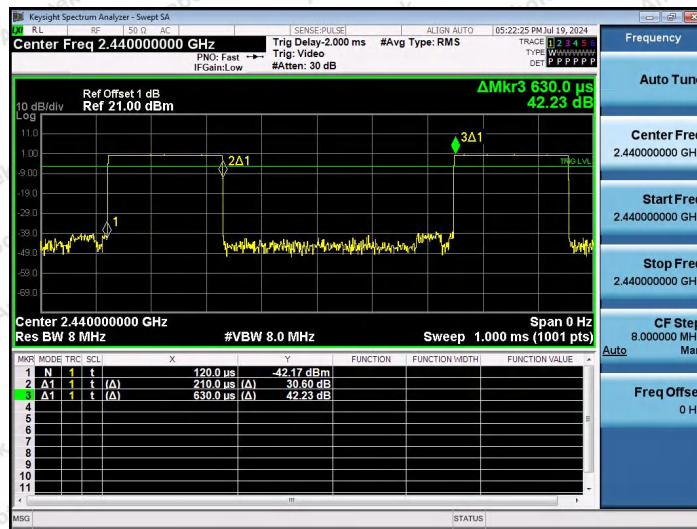
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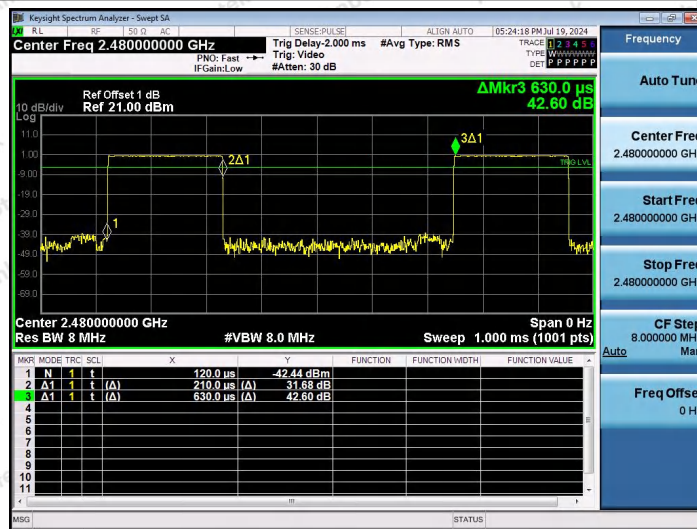




NTNV-BLE\_2M-Ant1-2402



NTNV-BLE\_2M-Ant1-2440



NTNV-BLE\_2M-Ant1-2480

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