

## Appendix Test Data

Report No.:	18220WC30128801	Test Sample No.:	1-2-2
Start Test Date:	2023.06.27	Finish Test Date:	2023.07.03
Test Engineer:	RICK Luo	Auditor:	Edward Pan
Temperature:	25.1°C	Relative Humidity:	49%
Pressure:	1012 hPa		

## Appendix A: DTS Bandwidth

## Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.652	2401.696	2402.348	0.5	PASS
		2440	0.660	2439.672	2440.332	0.5	PASS
		2480	0.676	2479.672	2480.348	0.5	PASS
BLE_2M	Ant1	2402	0.888	2401.468	2402.356	0.5	PASS
		2440	1.012	2439.576	2440.588	0.5	PASS
		2480	0.944	2479.472	2480.416	0.5	PASS



## Test Graphs



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BLE\_2M\_Ant1\_2402



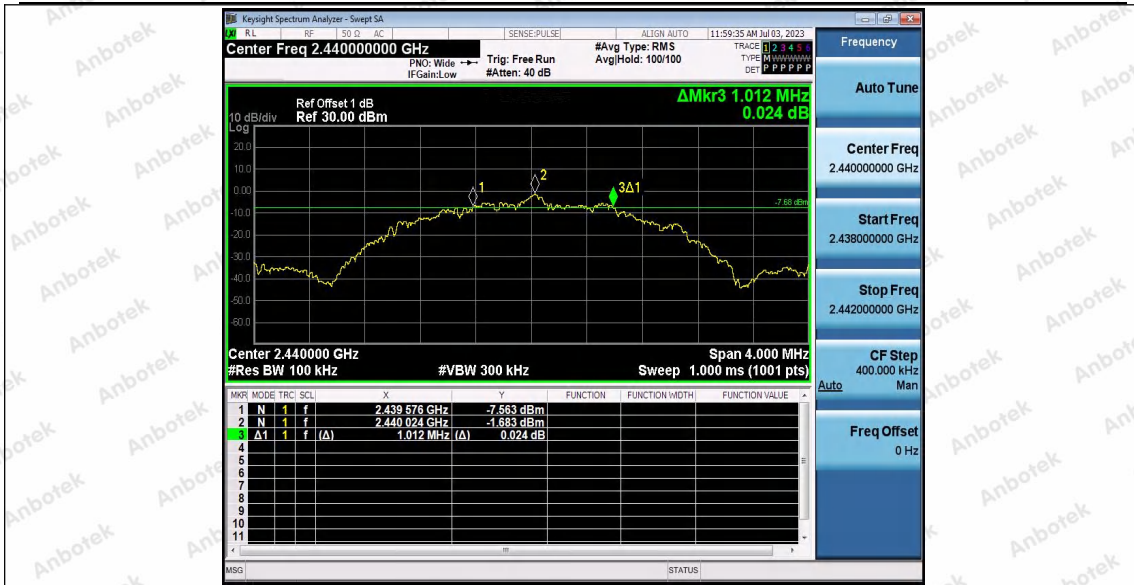
BLE\_2M\_Ant1\_2440

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## BLE\_2M\_Ant1\_2480



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## Appendix B: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0506	2401.4931	2402.5437
		2440	1.0439	2439.5046	2440.5485
		2480	1.0672	2479.4964	2480.5636
BLE_2M	Ant1	2402	2.0729	2401.0075	2403.0804
		2440	2.0590	2439.0211	2441.0801
		2480	2.0937	2478.9913	2481.0850

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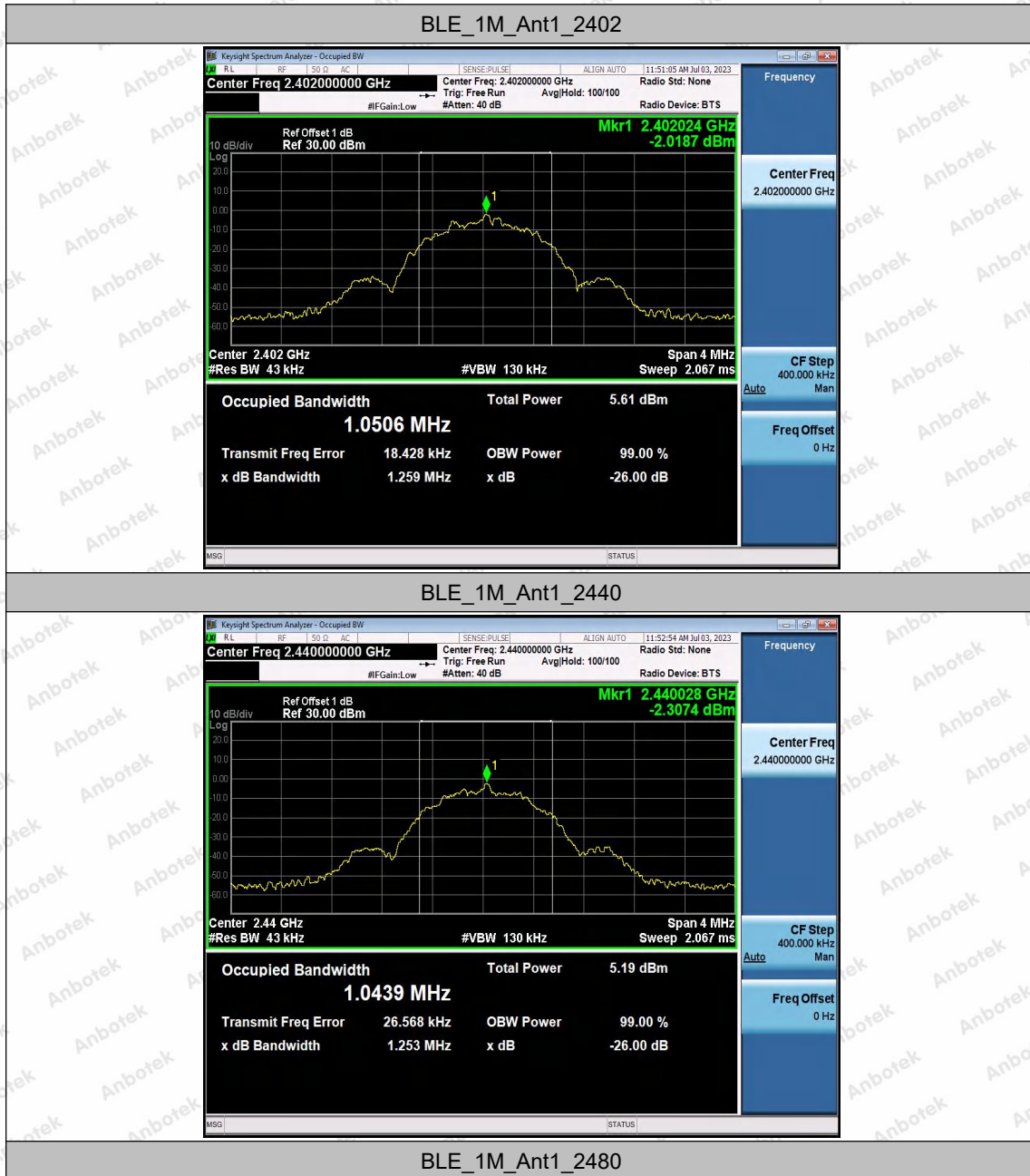
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## Test Graphs



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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

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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	-1.03	≤30	PASS
		2440	-1.41	≤30	PASS
		2480	-2.60	≤30	PASS
BLE_2M	Ant1	2402	-0.99	≤30	PASS
		2440	-1.40	≤30	PASS
		2480	-2.58	≤30	PASS

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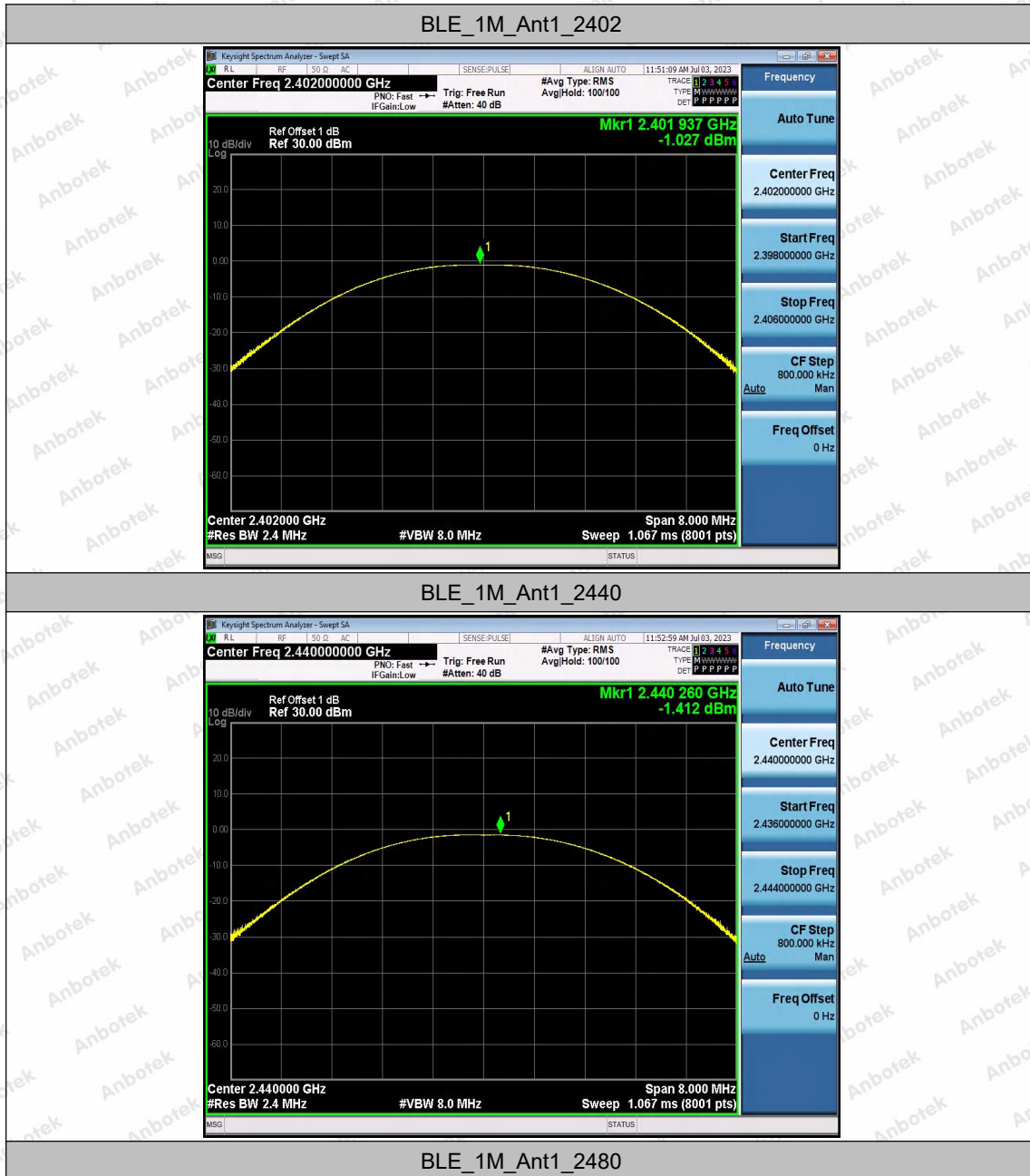
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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## Test Graphs Peak



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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

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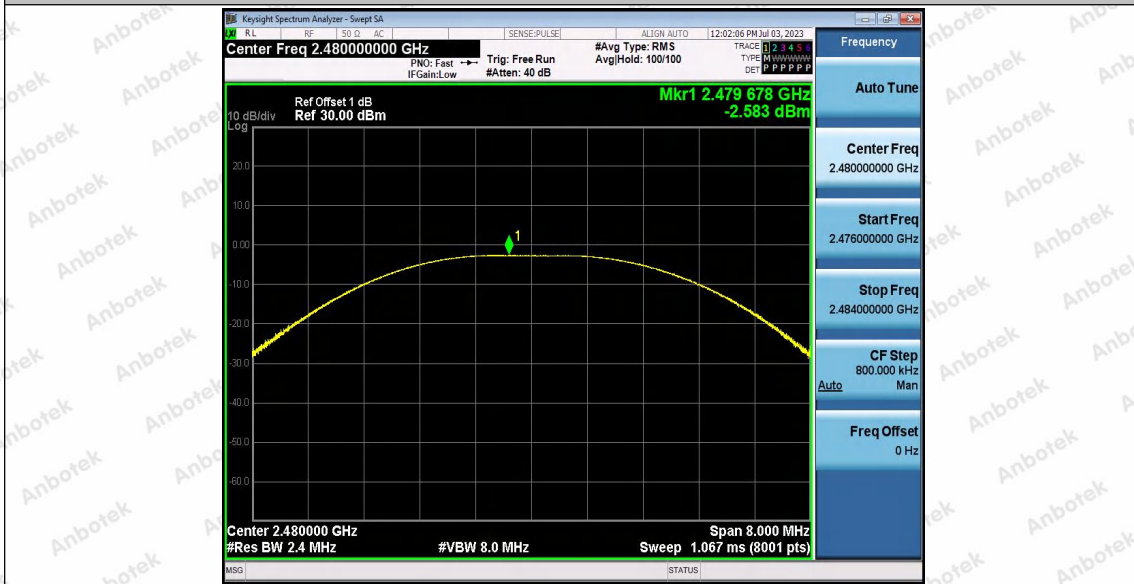
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BLE\_2M\_Ant1\_2480



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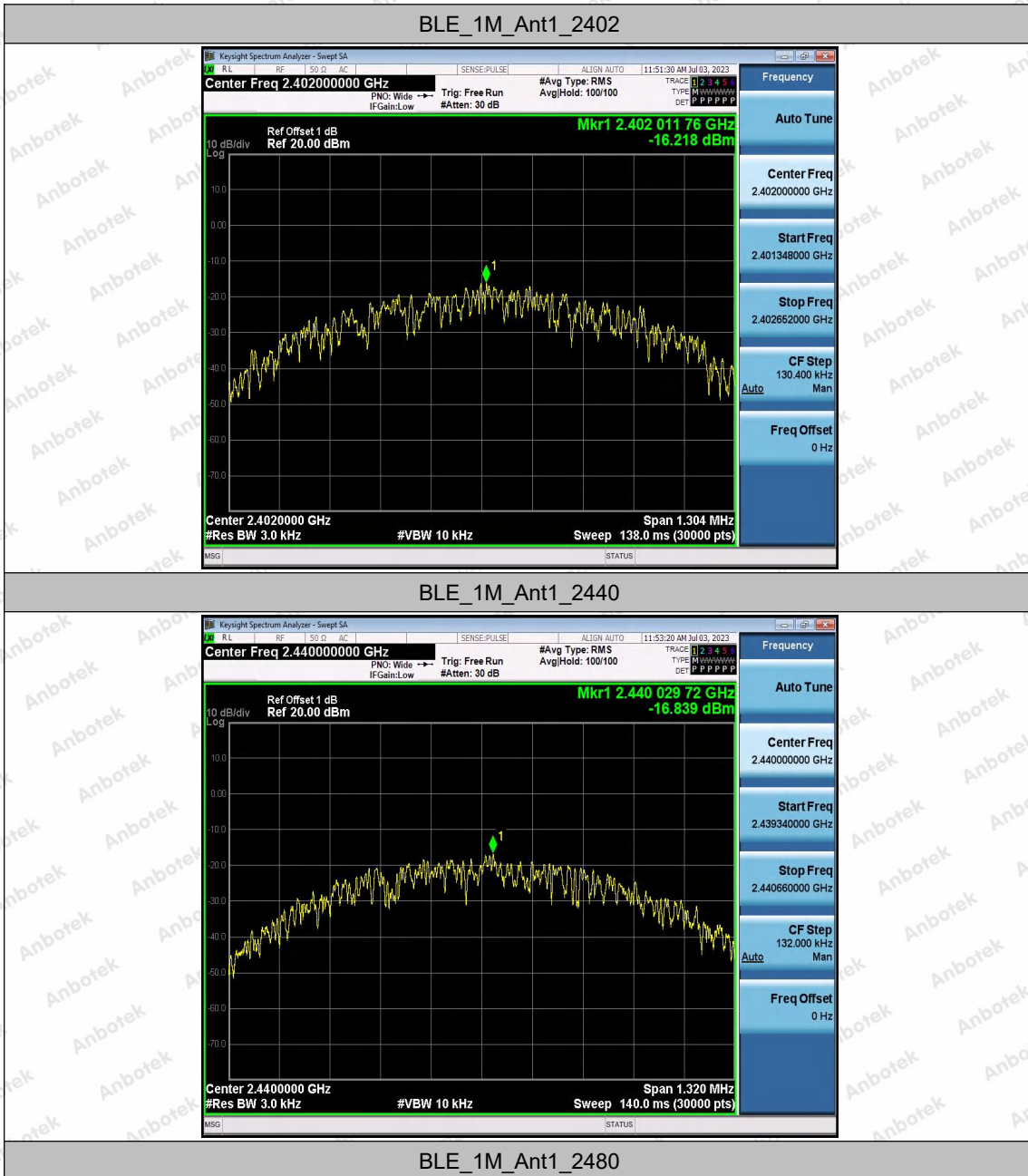
## Appendix D: Maximum power spectral density

### Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.22	≤8.00	PASS
		2440	-16.84	≤8.00	PASS
		2480	-17.86	≤8.00	PASS
BLE_2M	Ant1	2402	-18.21	≤8.00	PASS
		2440	-18.45	≤8.00	PASS
		2480	-20.34	≤8.00	PASS



## Test Graphs



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BLE\_2M\_Ant1\_2402



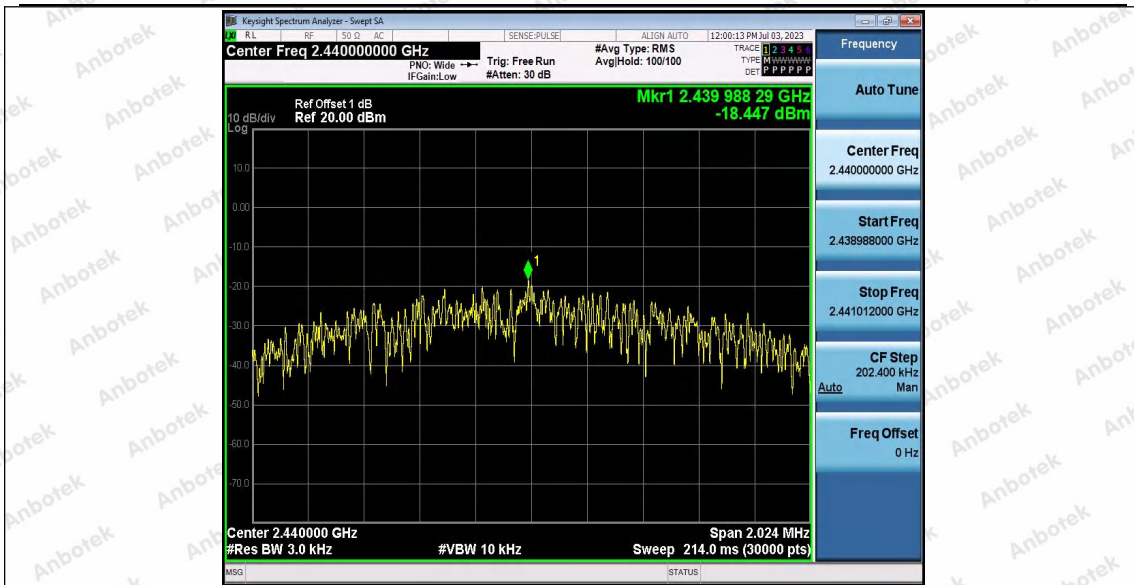
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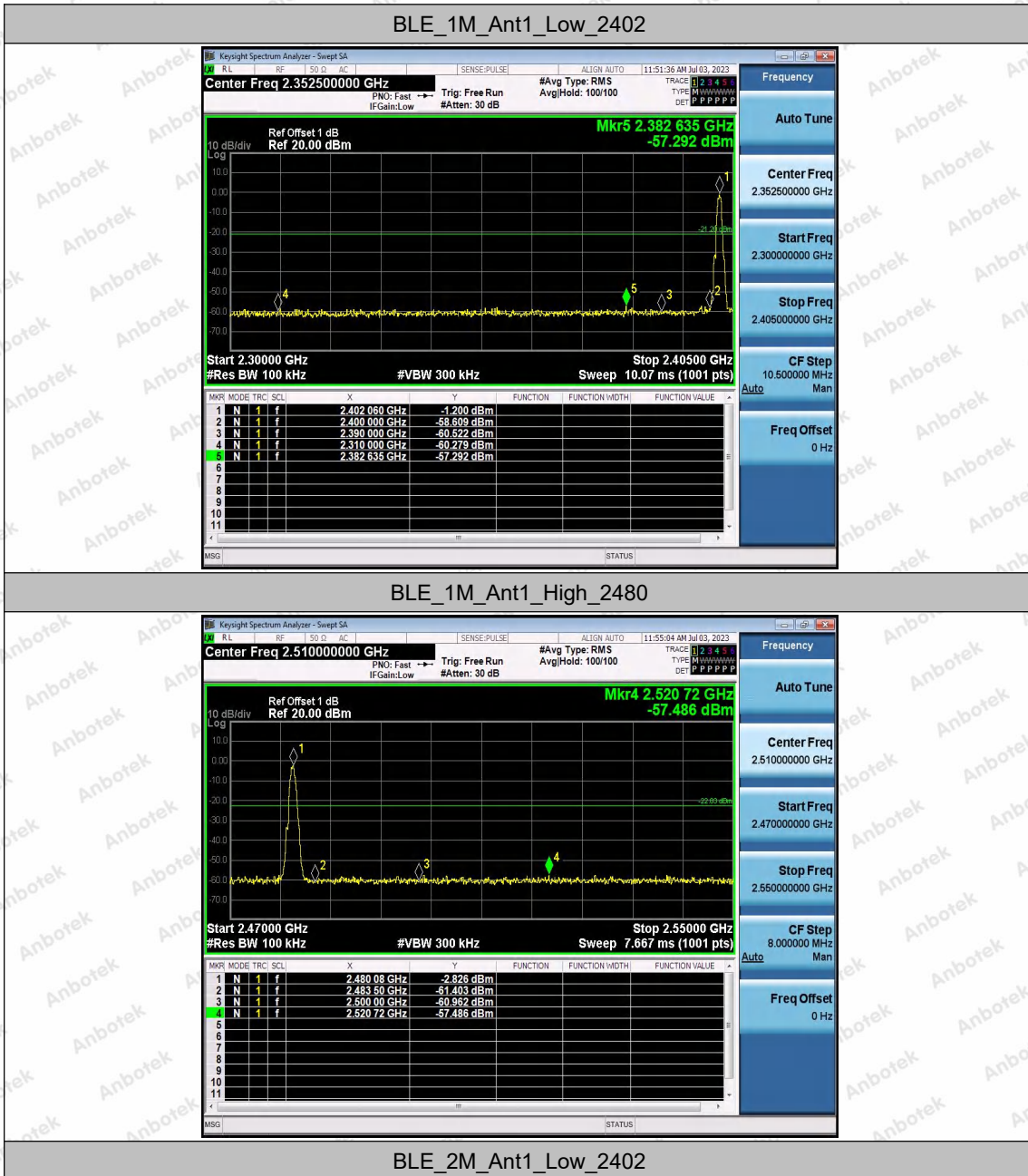
## Appendix E: Band edge measurements

### Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-1.20	-57.29	≤-21.2	PASS
		High	2480	-2.83	-57.49	≤-22.83	PASS
BLE_2M	Ant1	Low	2402	-1.22	-32.63	≤-21.22	PASS
		High	2480	-3.79	-57.04	≤-23.79	PASS



## Test Graphs



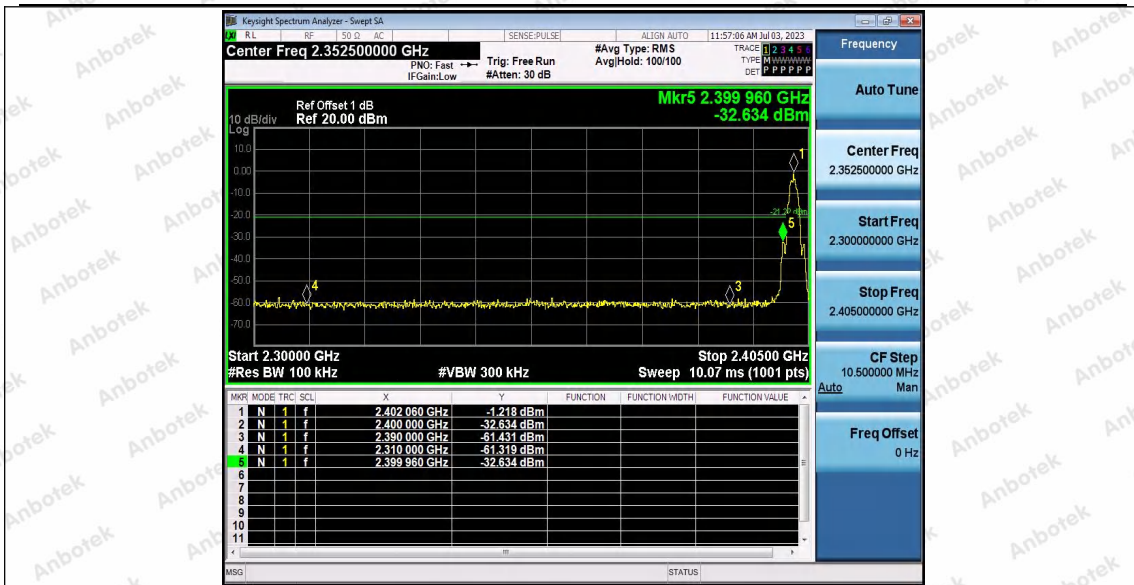
BLE\_2M\_Ant1\_Low\_2402

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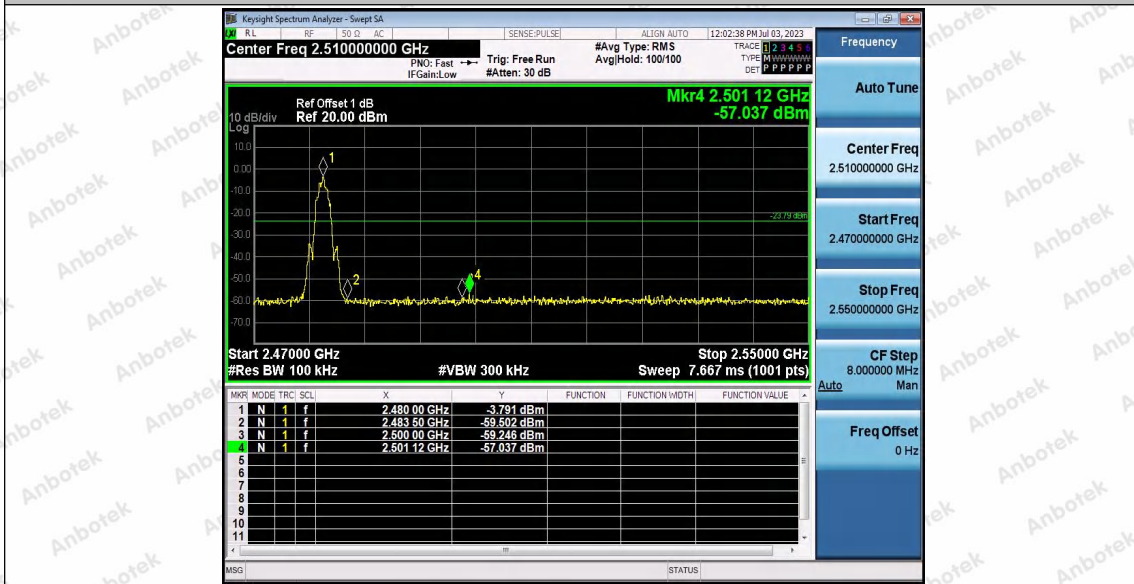
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### BLE\_2M\_Ant1\_High\_2480



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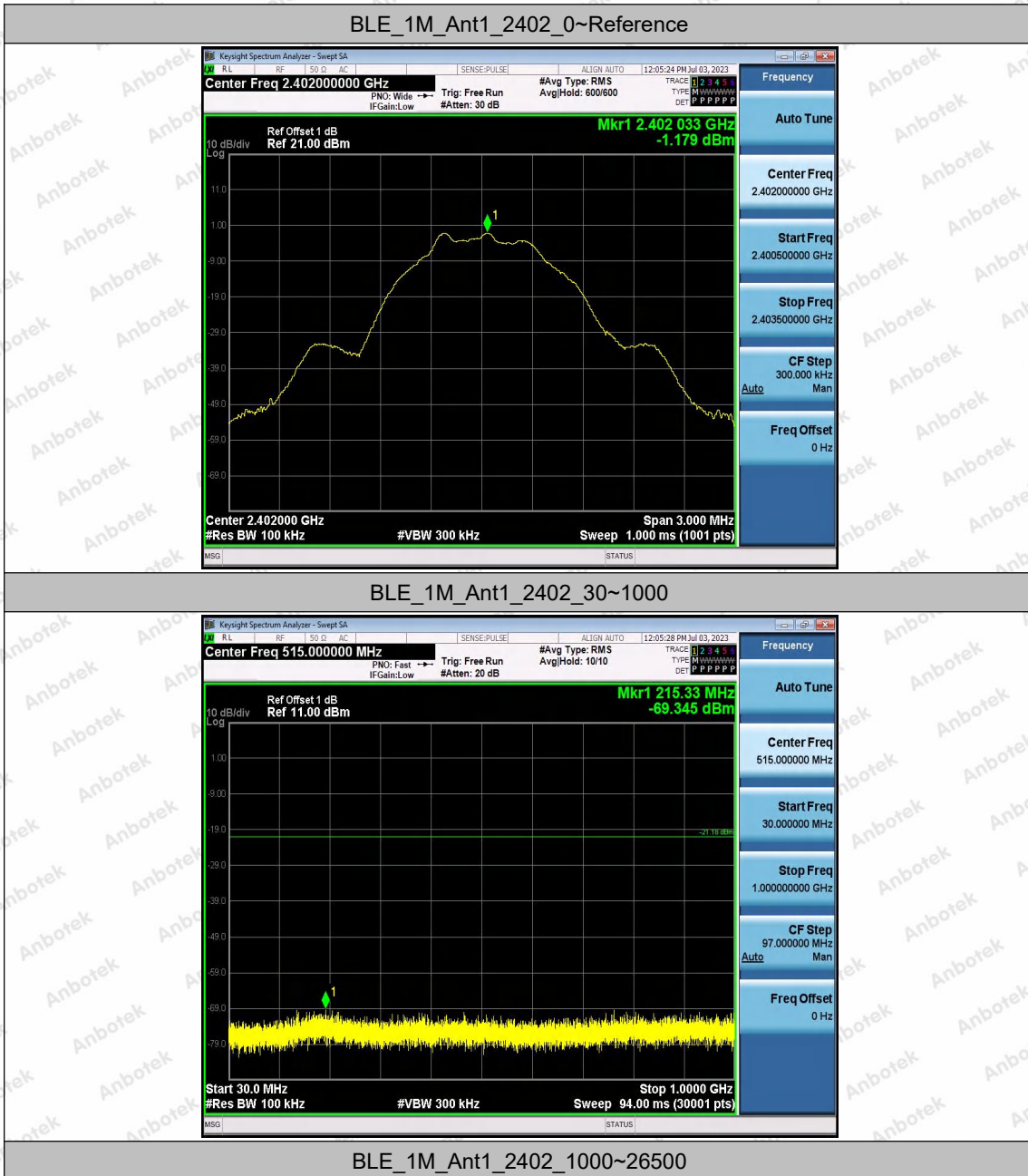
## Appendix F: Conducted Spurious Emission

### Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-1.18	-1.18	---	PASS
			30~1000	-1.18	-69.35	≤-21.18	PASS
			1000~26500	-1.18	-46.33	≤-21.18	PASS
		2440	Reference	-1.61	-1.61	---	PASS
			30~1000	-1.61	-68.86	≤-21.61	PASS
			1000~26500	-1.61	-44.53	≤-21.61	PASS
		2480	Reference	-2.90	-2.90	---	PASS
			30~1000	-2.90	-69.16	≤-22.9	PASS
			1000~26500	-2.90	-43	≤-22.9	PASS
BLE_2M	Ant1	2402	Reference	-1.25	-1.25	---	PASS
			30~1000	-1.25	-68.98	≤-21.25	PASS
			1000~26500	-1.25	-46.53	≤-21.25	PASS
		2440	Reference	-1.66	-1.66	---	PASS
			30~1000	-1.66	-69.47	≤-21.66	PASS
			1000~26500	-1.66	-46.41	≤-21.66	PASS
		2480	Reference	-2.88	-2.88	---	PASS
			30~1000	-2.88	-69.41	≤-22.88	PASS
			1000~26500	-2.88	-43.72	≤-22.88	PASS



## Test Graphs

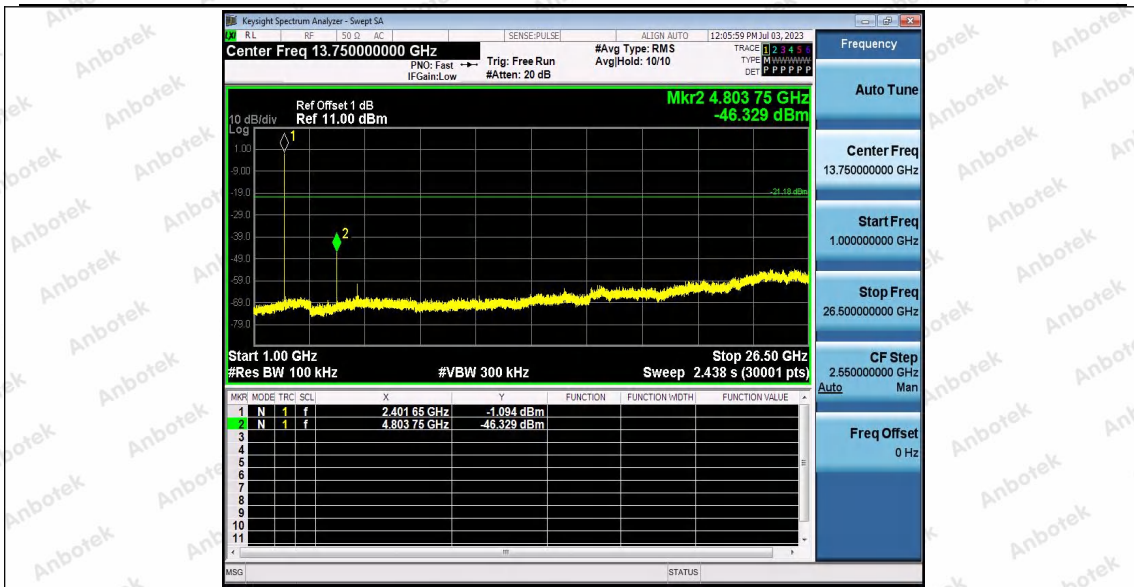


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BLE\_1M\_Ant1\_2440\_0~Reference



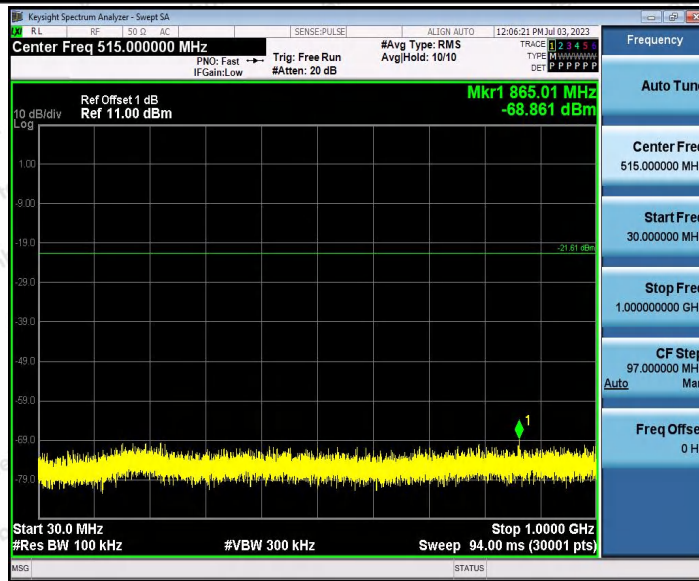
BLE\_1M\_Ant1\_2440\_30~1000

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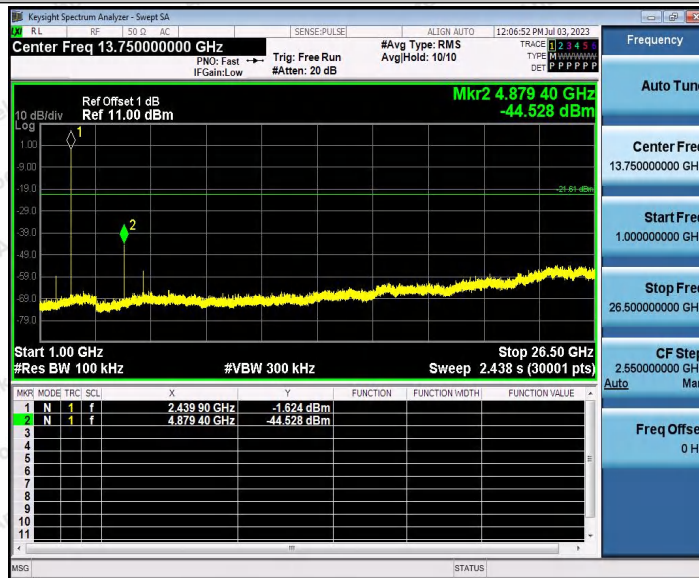
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BLE\_1M\_Ant1\_2440\_1000~26500



BLE\_1M\_Ant1\_2480\_0~Reference

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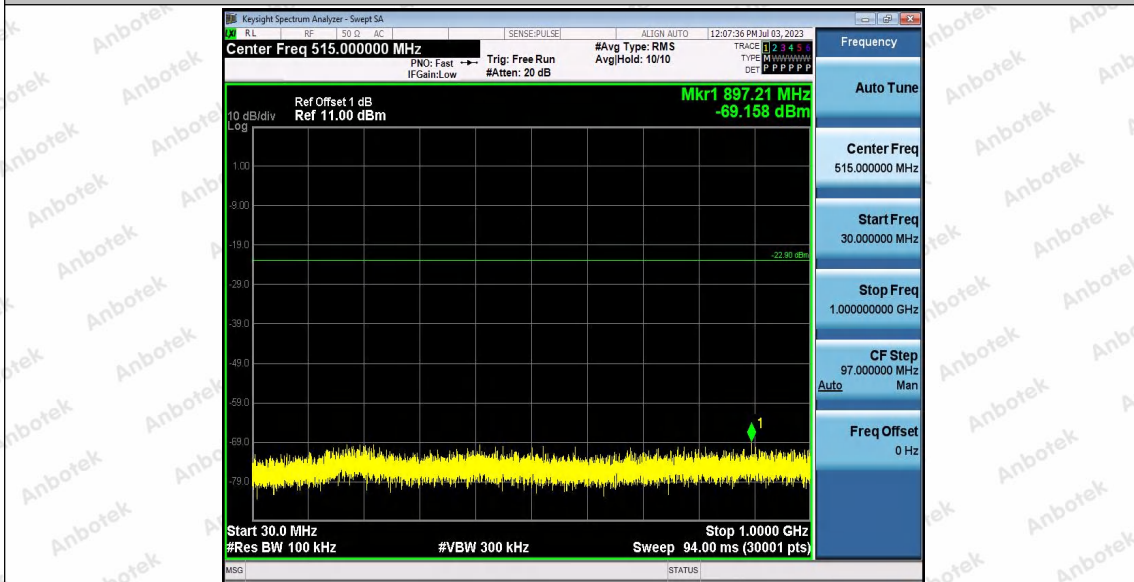
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BLE\_1M\_Ant1\_2480\_30~1000



BLE\_1M\_Ant1\_2480\_1000~26500

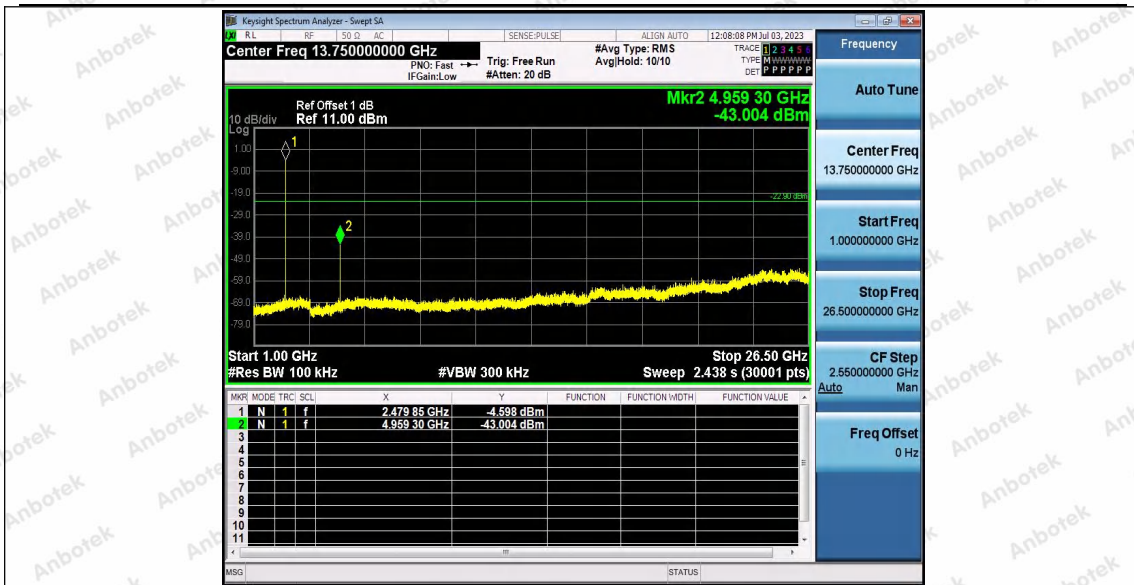
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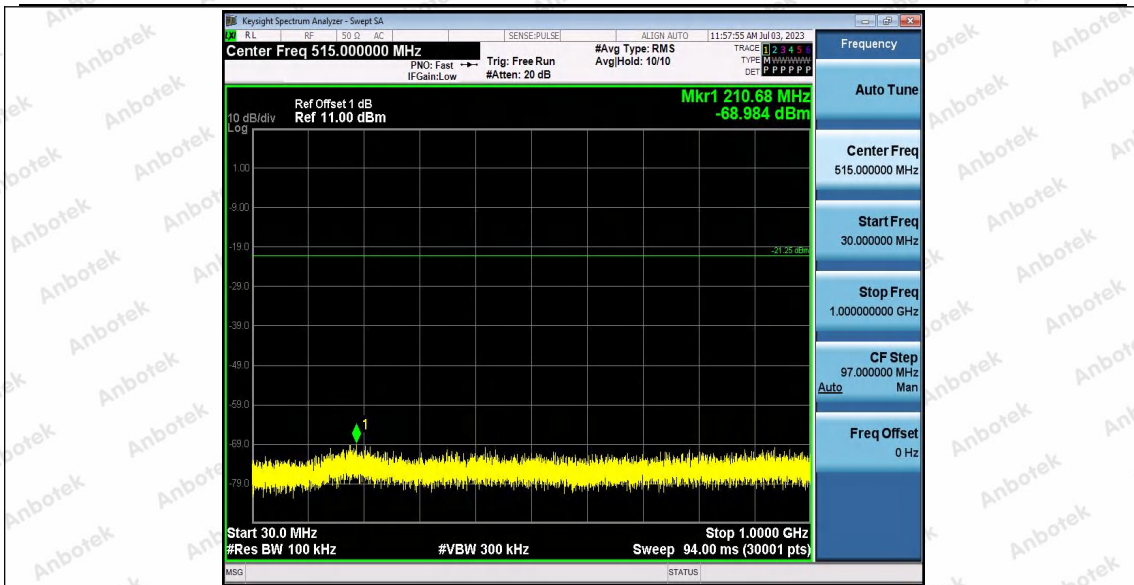
BLE\_2M\_Ant1\_2402\_30~100

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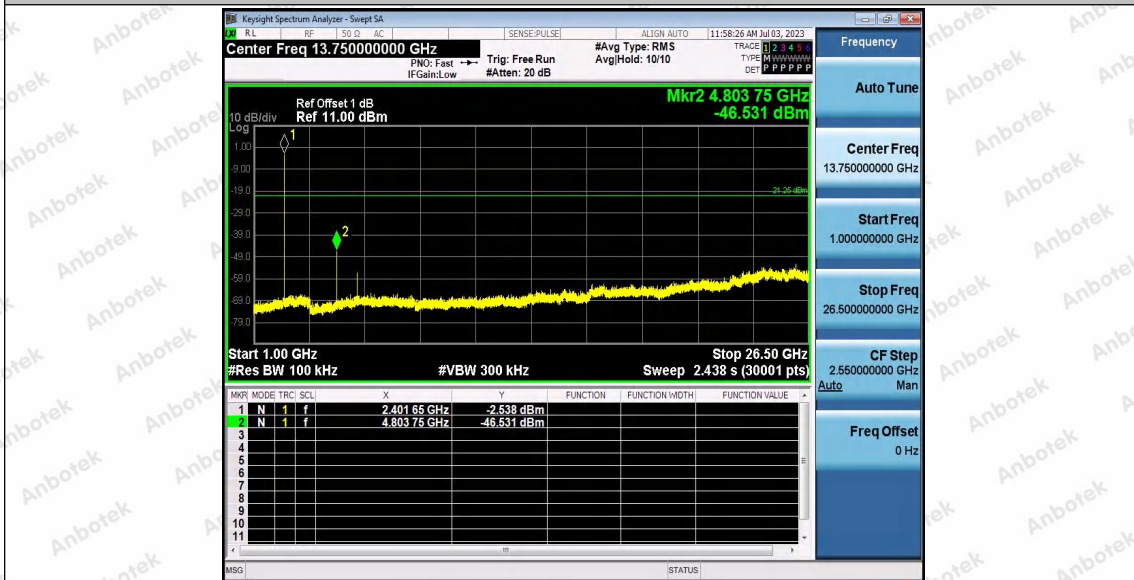
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BLE\_2M\_Ant1\_2440\_0~Reference

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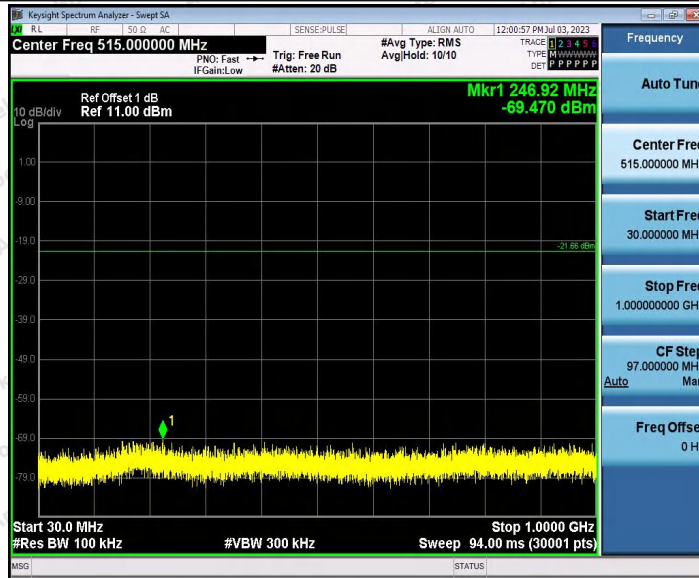
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BLE\_2M\_Ant1\_2440\_30~1000



BLE\_2M\_Ant1\_2440\_1000~26500

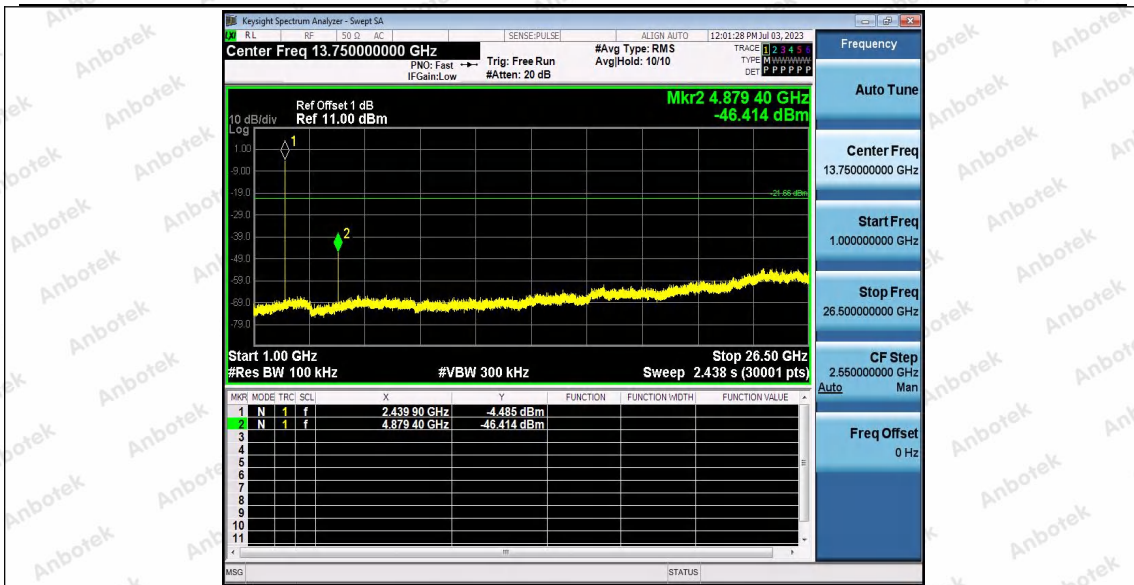
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BLE\_2M\_Ant1\_2480\_0~Reference



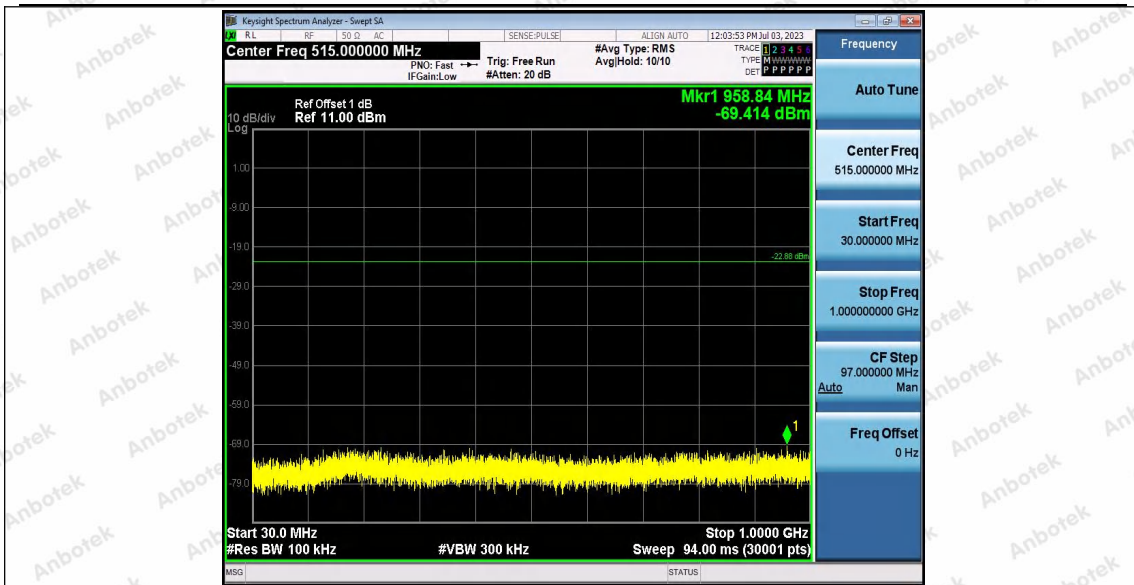
BLE\_2M\_Ant1\_2480\_30~100

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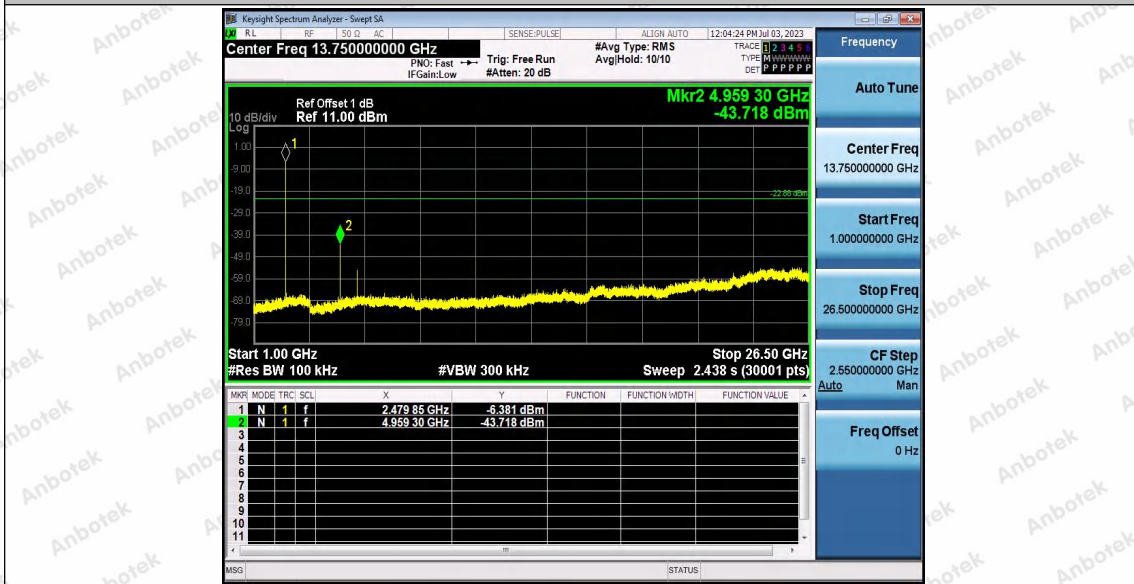
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## Appendix G: Duty Cycle

### Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.42	0.63	66.67	1.76
		2440	0.42	0.63	66.67	1.76
		2480	0.42	0.63	66.67	1.76
BLE_2M	Ant1	2402	0.23	0.63	36.51	4.38
		2440	0.23	0.63	36.51	4.38
		2480	0.24	0.63	38.10	4.19

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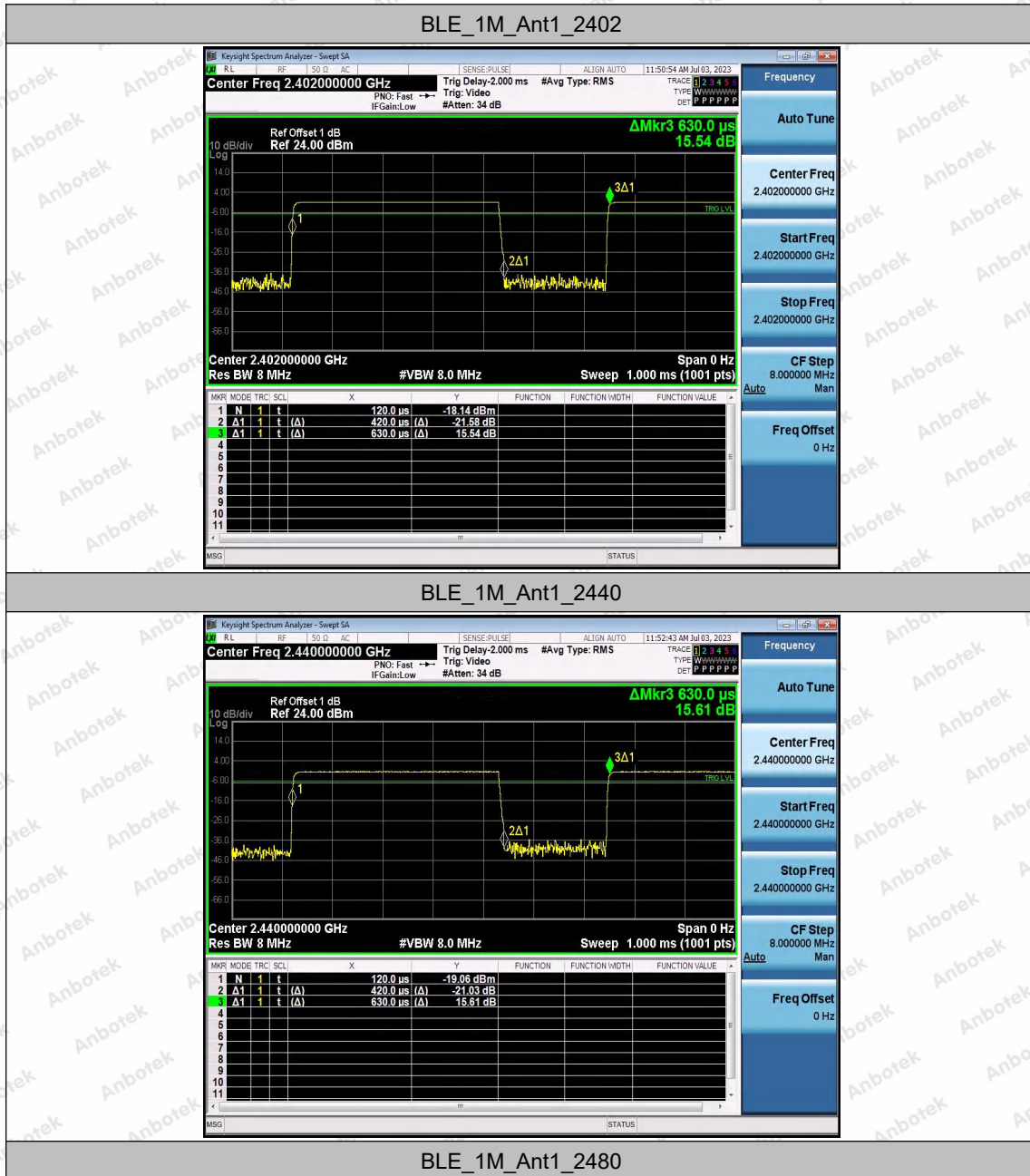
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## Test Graphs

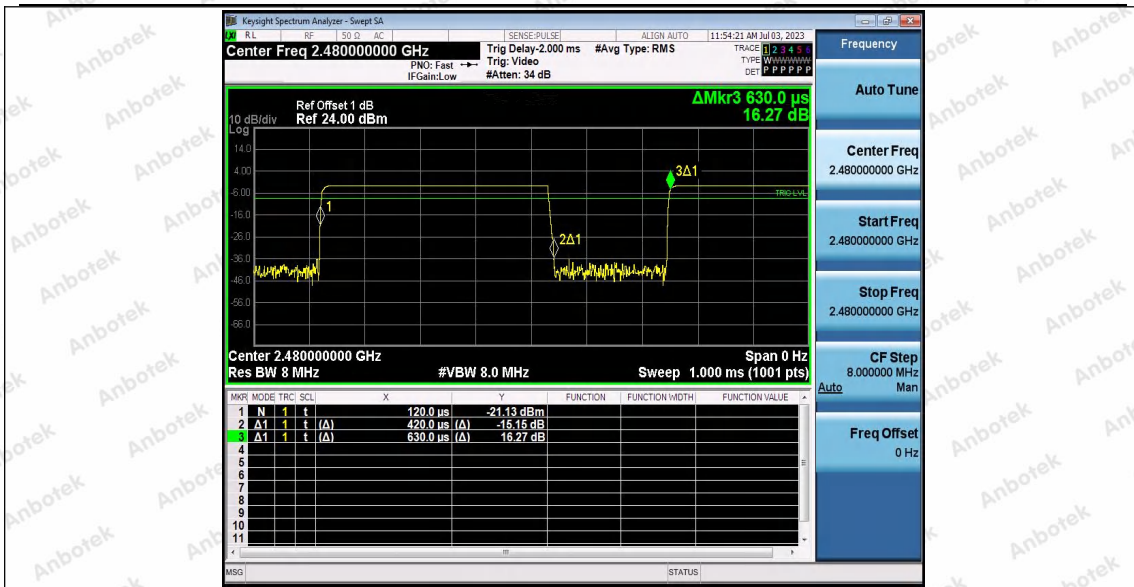


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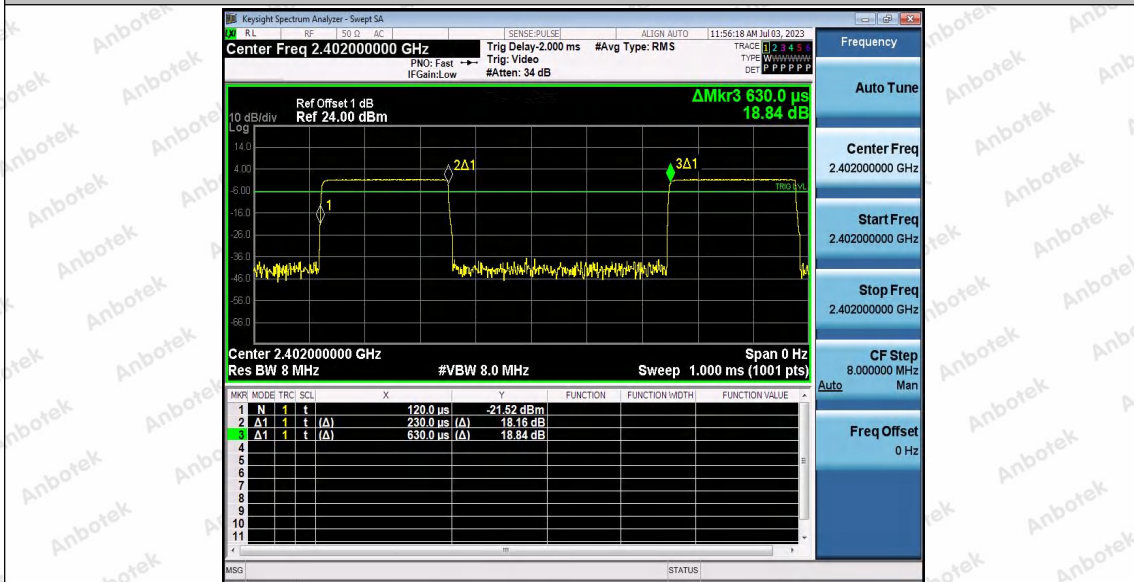
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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

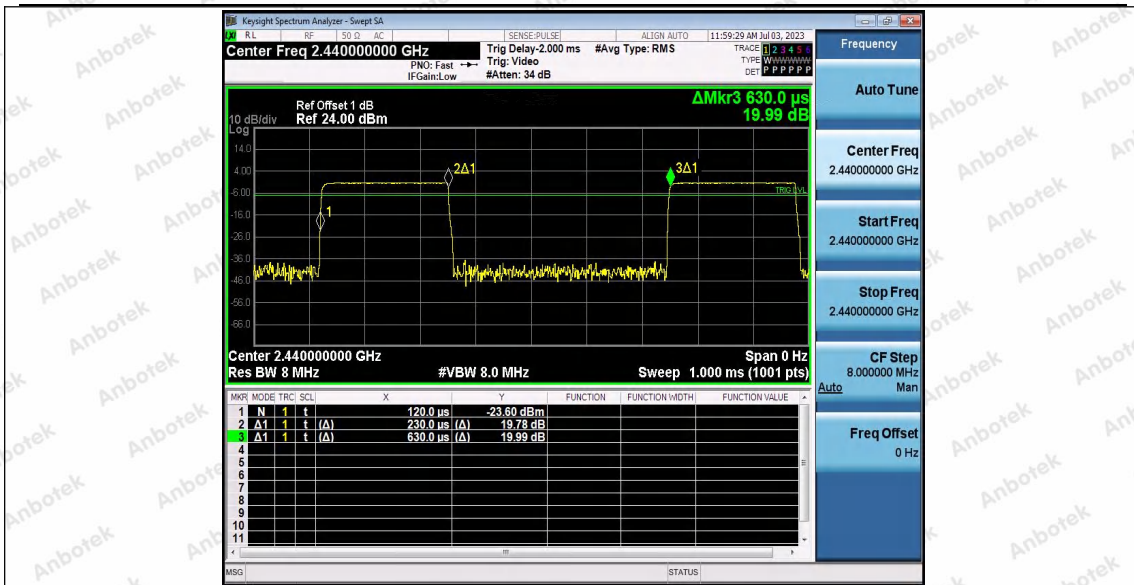
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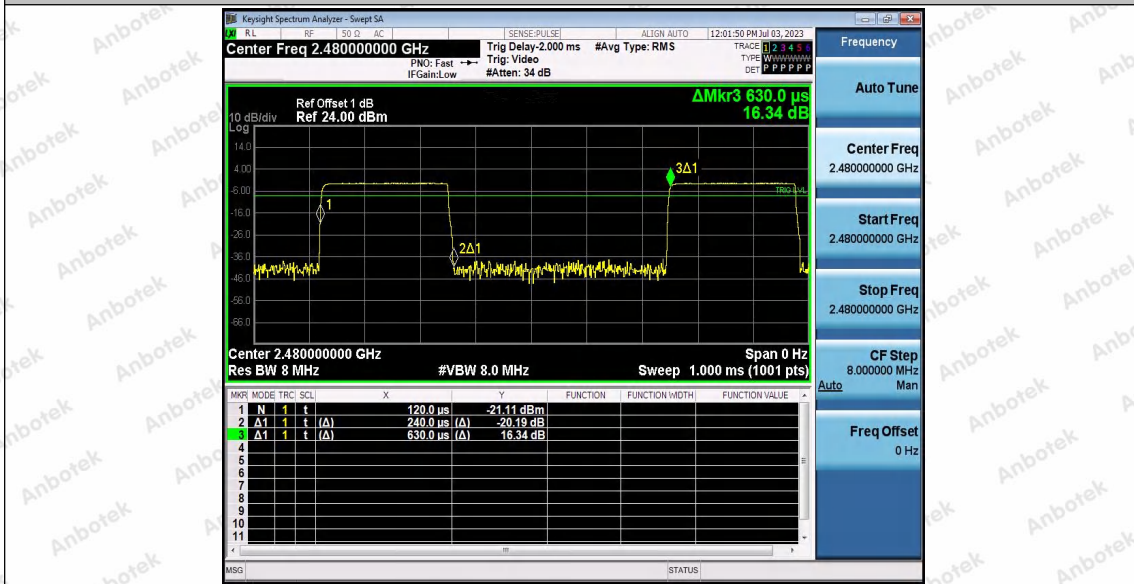
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BLE\_2M\_Ant1\_2480



---End---

