

## Appendix Test Data

Report No.:	18220WC30070802	Test Sample No.:	1-2-2
Start Test Date:	2023.04.23	Finish Test Date:	2023.04.24
Test Engineer:	RICK Luo	Auditor:	Edward Pan
Temperature:	25.9°C	Relative Humidity:	47%
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	0.688	2401.636	2402.324	0.5	PASS
		2440	0.652	2439.672	2440.324	0.5	PASS
		2480	0.668	2479.648	2480.316	0.5	PASS
BLE_2M	Ant1	2402	1.104	2401.444	2402.548	0.5	PASS
		2440	1.228	2439.348	2440.576	0.5	PASS
		2480	1.124	2479.452	2480.576	0.5	PASS

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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 B: Occupied Channel Bandwidth

### Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0369	2401.4807	2402.5176
		2440	1.0404	2439.4806	2440.5210
		2480	1.0390	2479.4759	2480.5149
BLE_2M	Ant1	2402	2.0425	2400.9975	2403.0400
		2440	2.0425	2438.9940	2441.0365
		2480	2.0459	2478.9812	2481.0271

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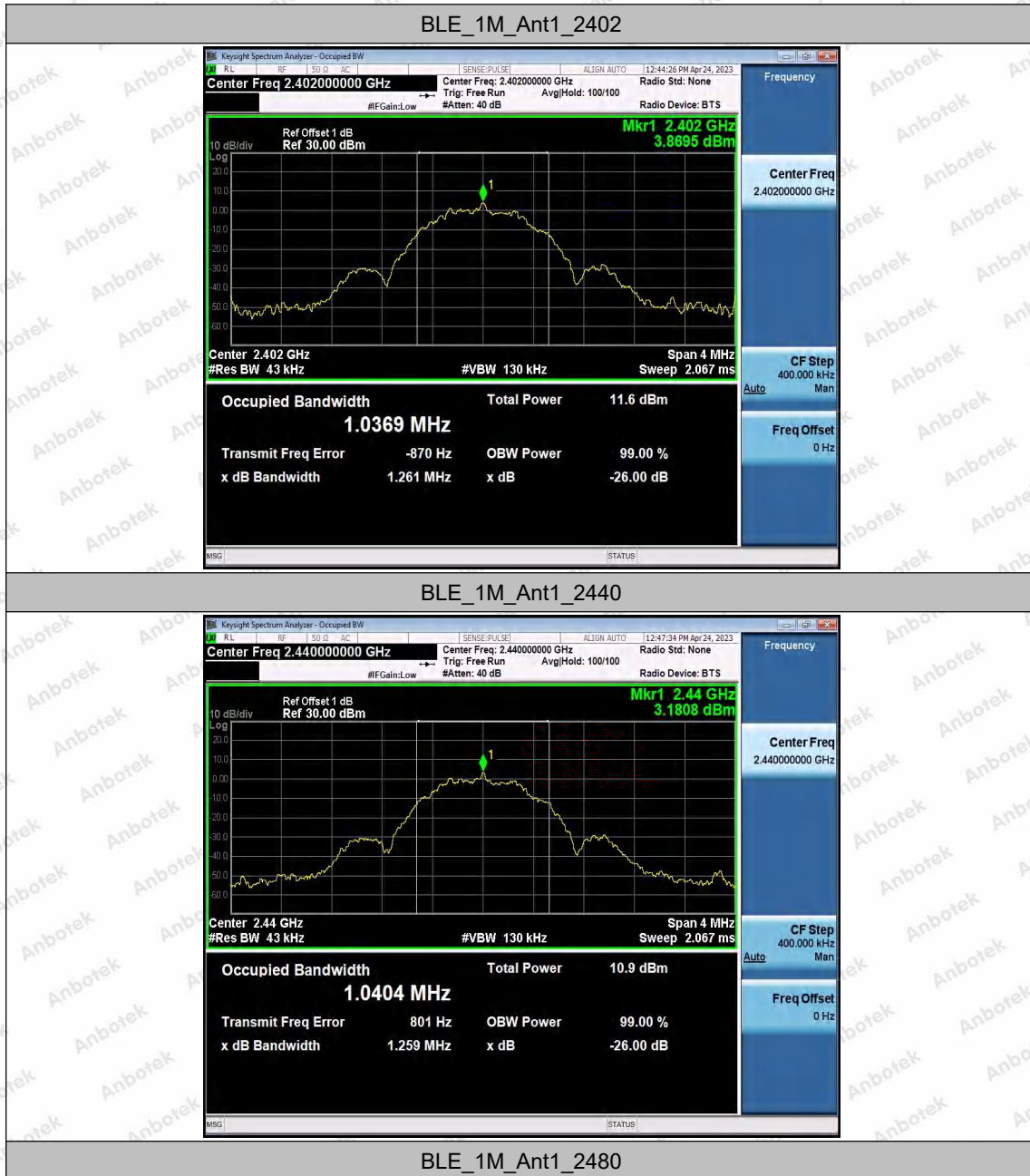
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## Test Graphs



BLE\_1M\_Ant1\_2480

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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

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	4.80	≤30	PASS
		2440	4.10	≤30	PASS
		2480	5.09	≤30	PASS
BLE_2M	Ant1	2402	4.82	≤30	PASS
		2440	4.10	≤30	PASS
		2480	<b>5.23</b>	≤30	PASS

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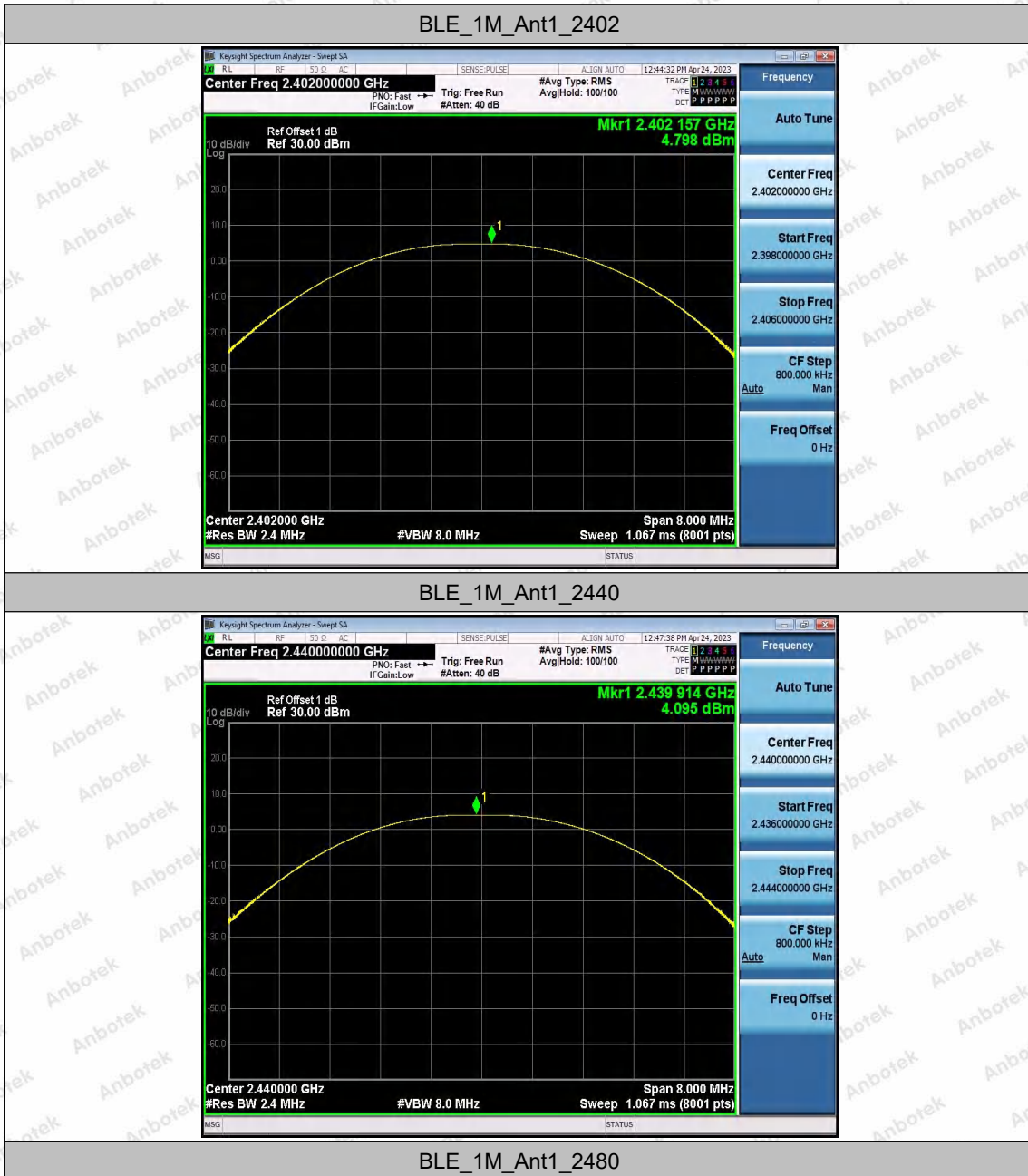
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## Test Graphs Peak



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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 D: Maximum power spectral density

### Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.31	≤8.00	PASS
		2440	-11.28	≤8.00	PASS
		2480	-10.52	≤8.00	PASS
BLE_2M	Ant1	2402	-12.77	≤8.00	PASS
		2440	-13.65	≤8.00	PASS
		2480	-12.34	≤8.00	PASS

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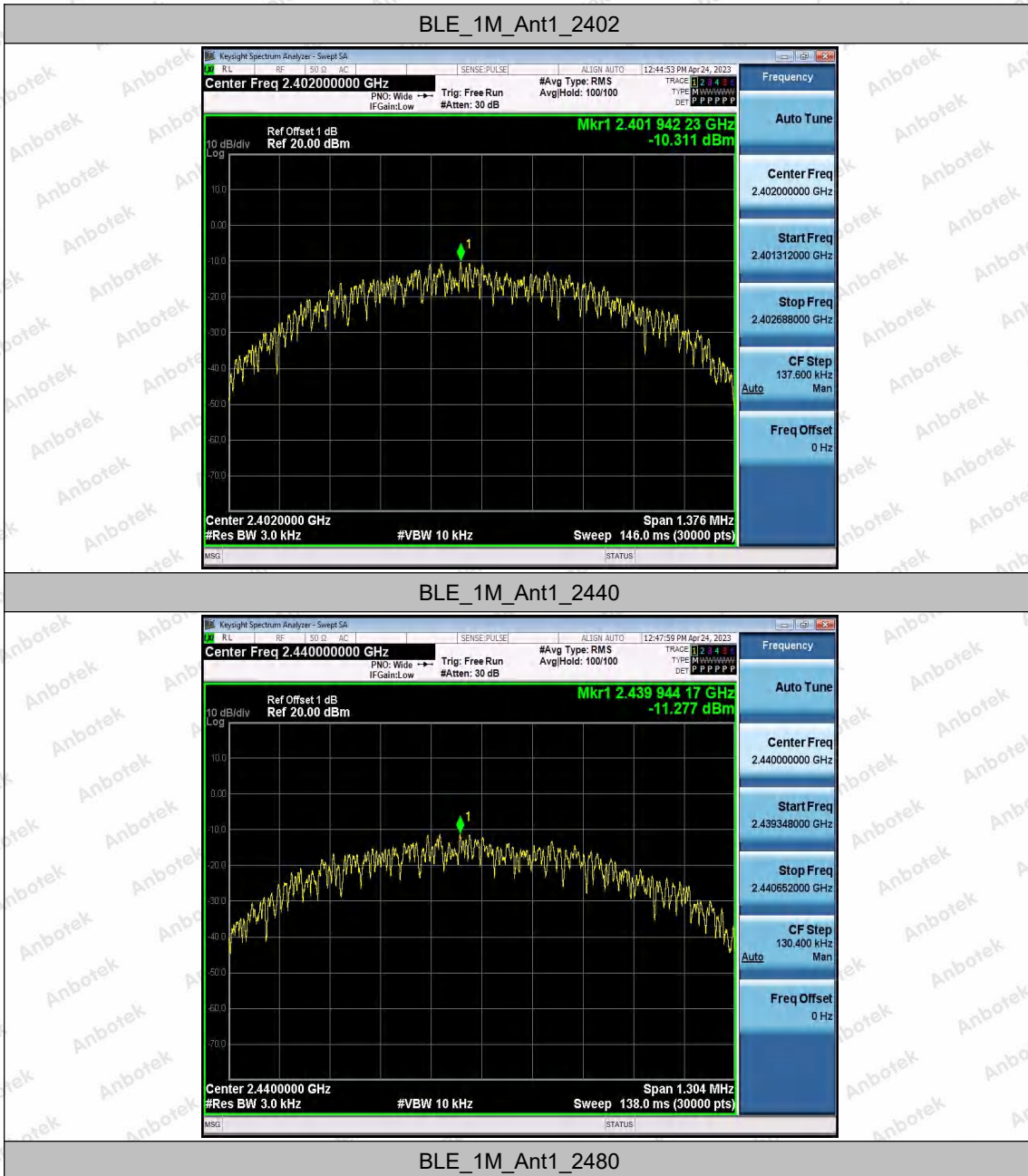
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## Test Graphs



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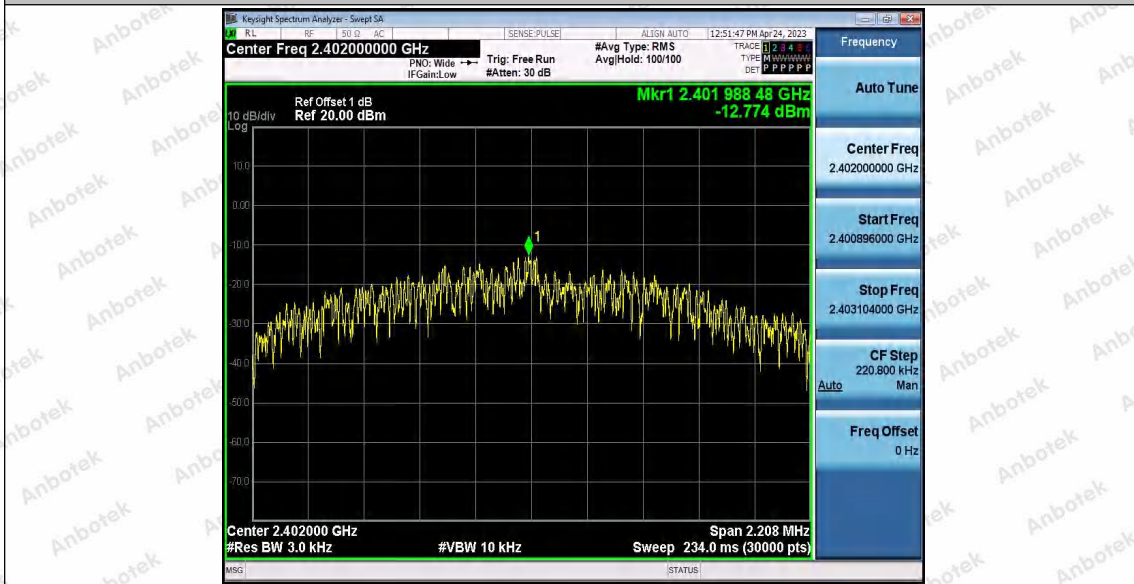
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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

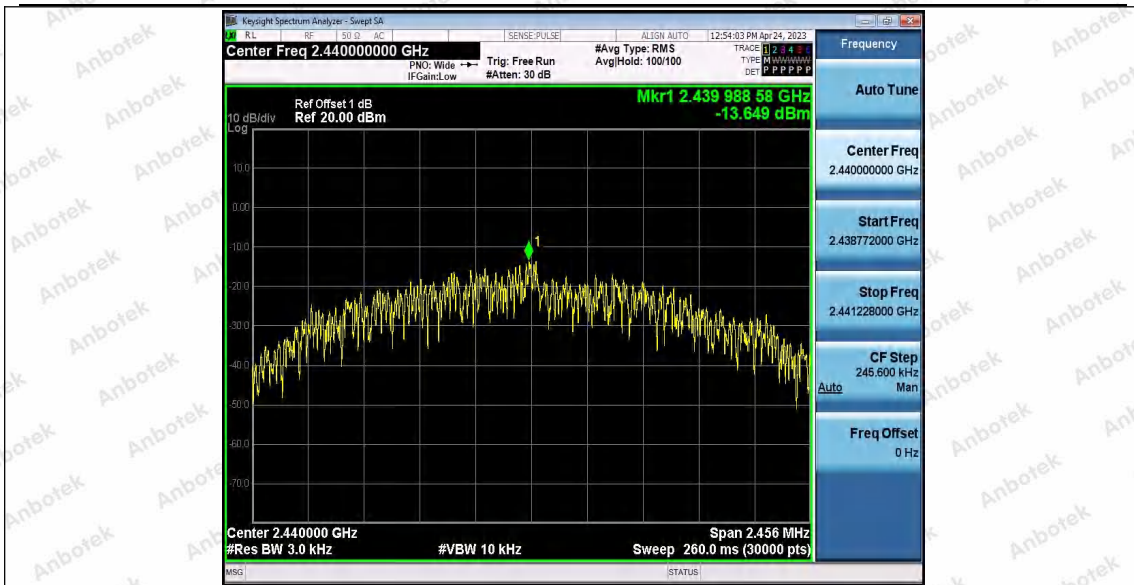
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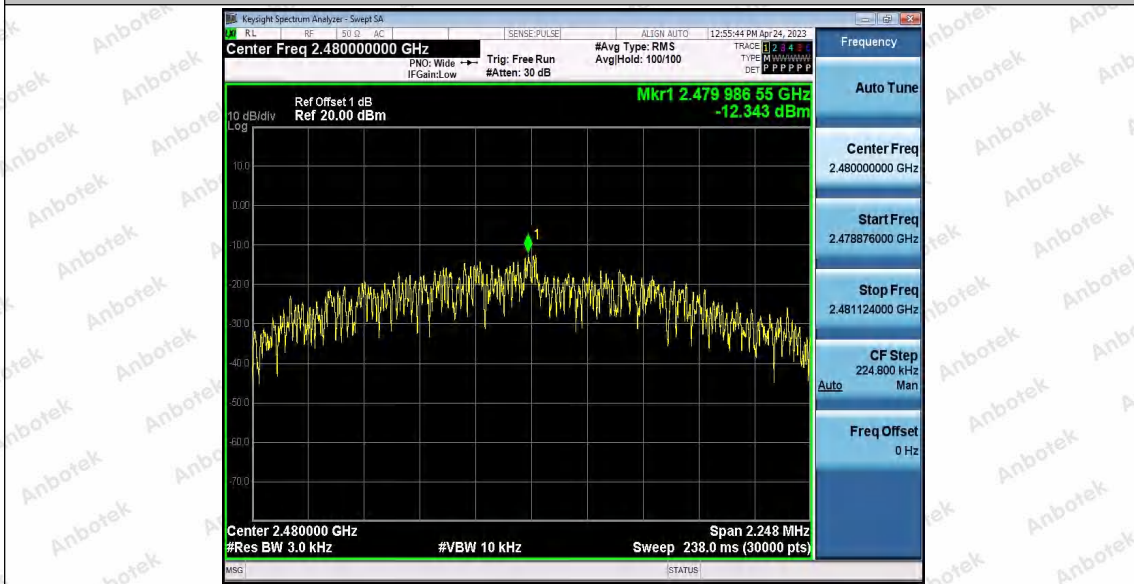


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BLE\_2M\_Ant1\_2480



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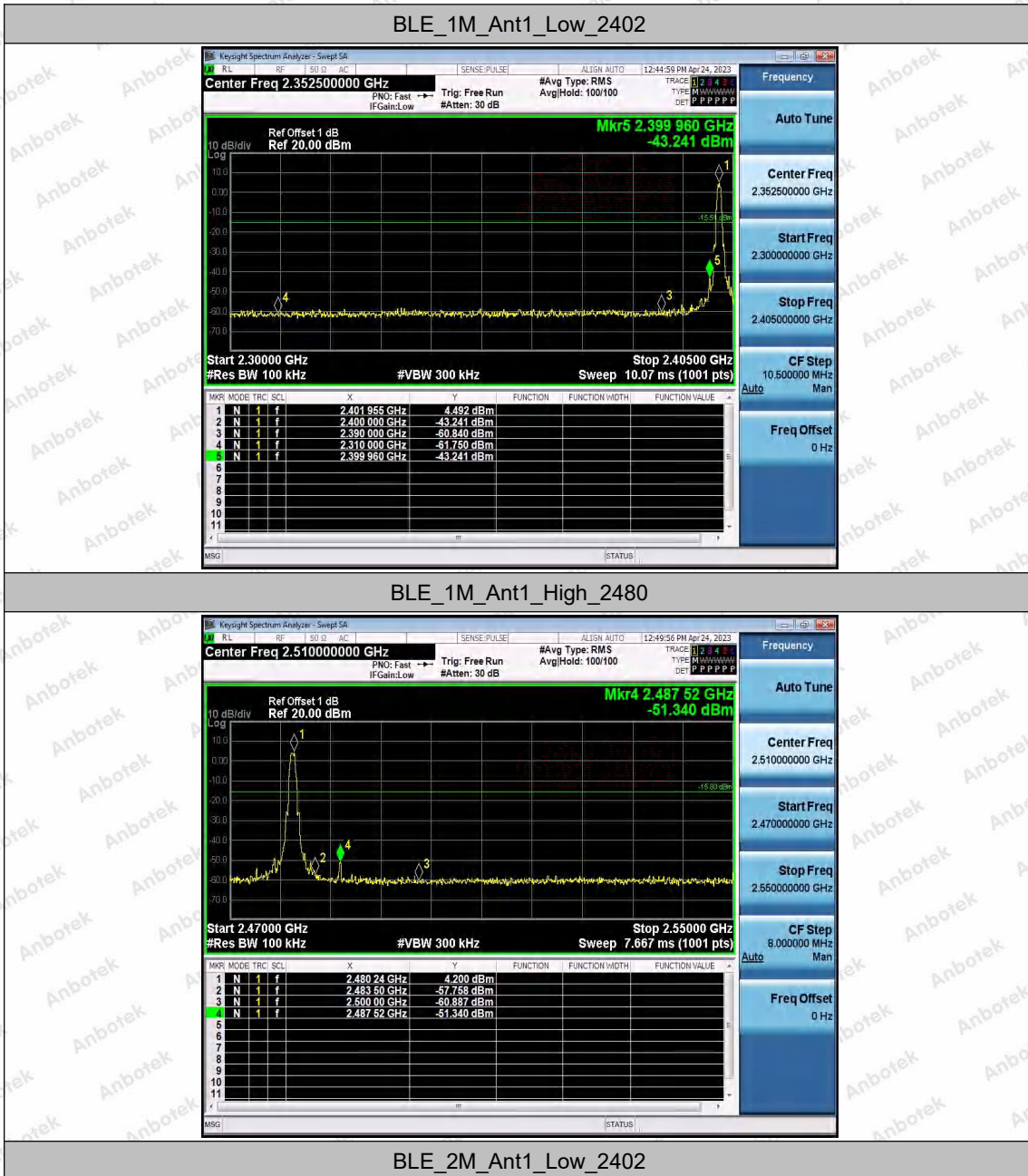
## Appendix E: Band edge measurements

### Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	4.49	-43.24	≤-15.51	PASS
		High	2480	4.20	-51.34	≤-15.8	PASS
BLE_2M	Ant1	Low	2402	4.20	-28.71	≤-15.8	PASS
		High	2480	5.00	-49.65	≤-15	PASS



## Test Graphs

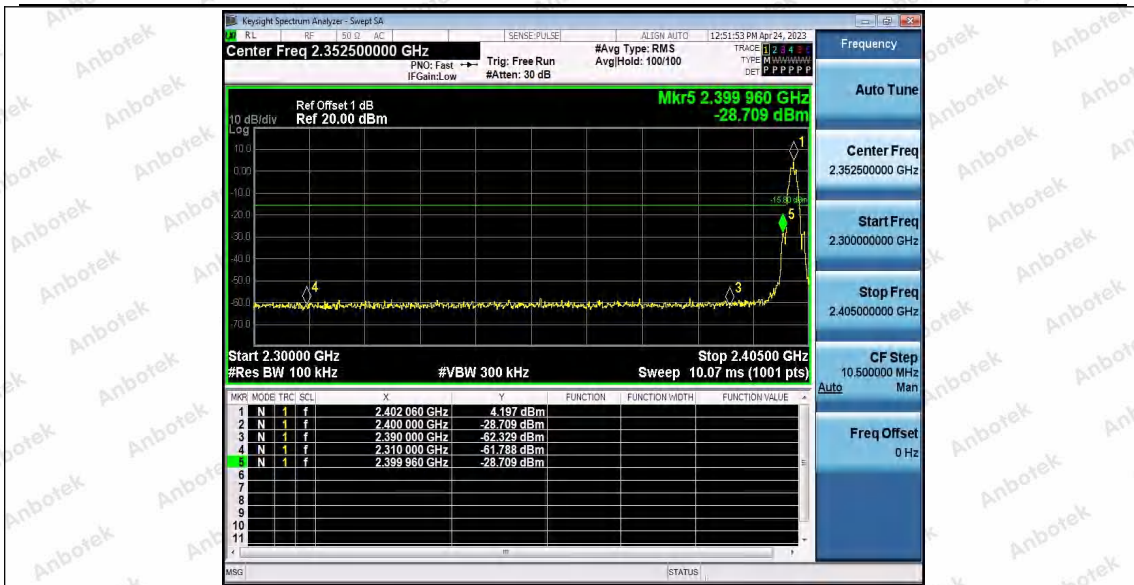


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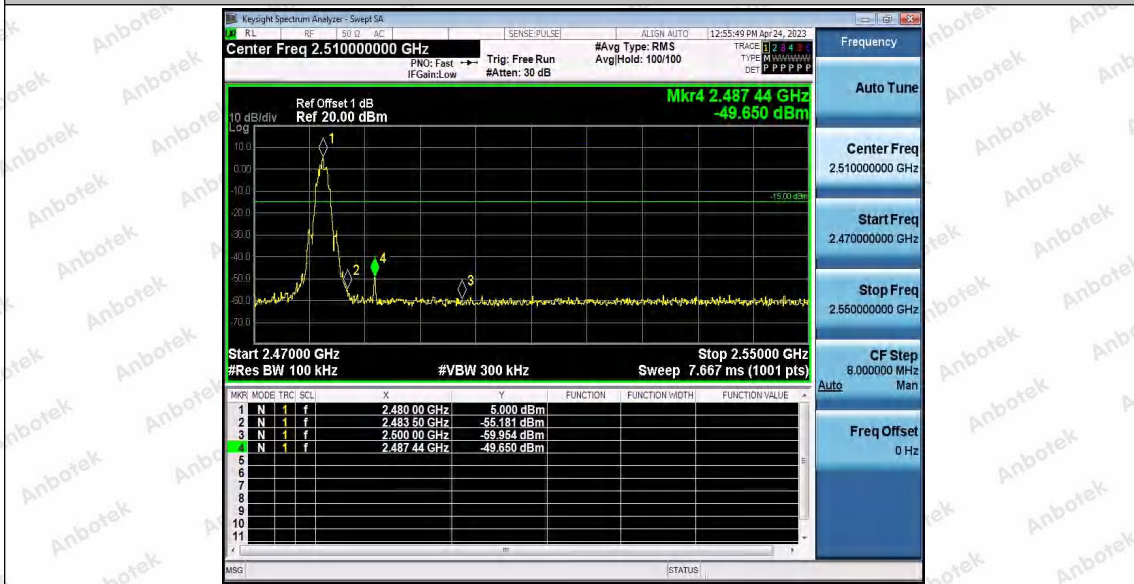
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BLE\_2M\_Ant1\_High\_2480



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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	4.61	4.61	---	PASS
			30~1000	4.61	-67.54	≤-15.39	PASS
			1000~26500	4.61	-53.07	≤-15.39	PASS
		2440	Reference	3.01	3.01	---	PASS
			30~1000	3.01	-69.21	≤-16.99	PASS
			1000~26500	3.01	-53.4	≤-16.99	PASS
		2480	Reference	4.39	4.39	---	PASS
			30~1000	4.39	-68.91	≤-15.61	PASS
			1000~26500	4.39	-52.58	≤-15.61	PASS
BLE_2M	Ant1	2402	Reference	4.25	4.25	---	PASS
			30~1000	4.25	-67.85	≤-15.75	PASS
			1000~26500	4.25	-52.26	≤-15.75	PASS
		2440	Reference	0.62	0.62	---	PASS
			30~1000	0.62	-68.85	≤-19.38	PASS
			1000~26500	0.62	-53.22	≤-19.38	PASS
		2480	Reference	4.69	4.69	---	PASS
			30~1000	4.69	-68.62	≤-15.31	PASS
			1000~26500	4.69	-52.99	≤-15.31	PASS

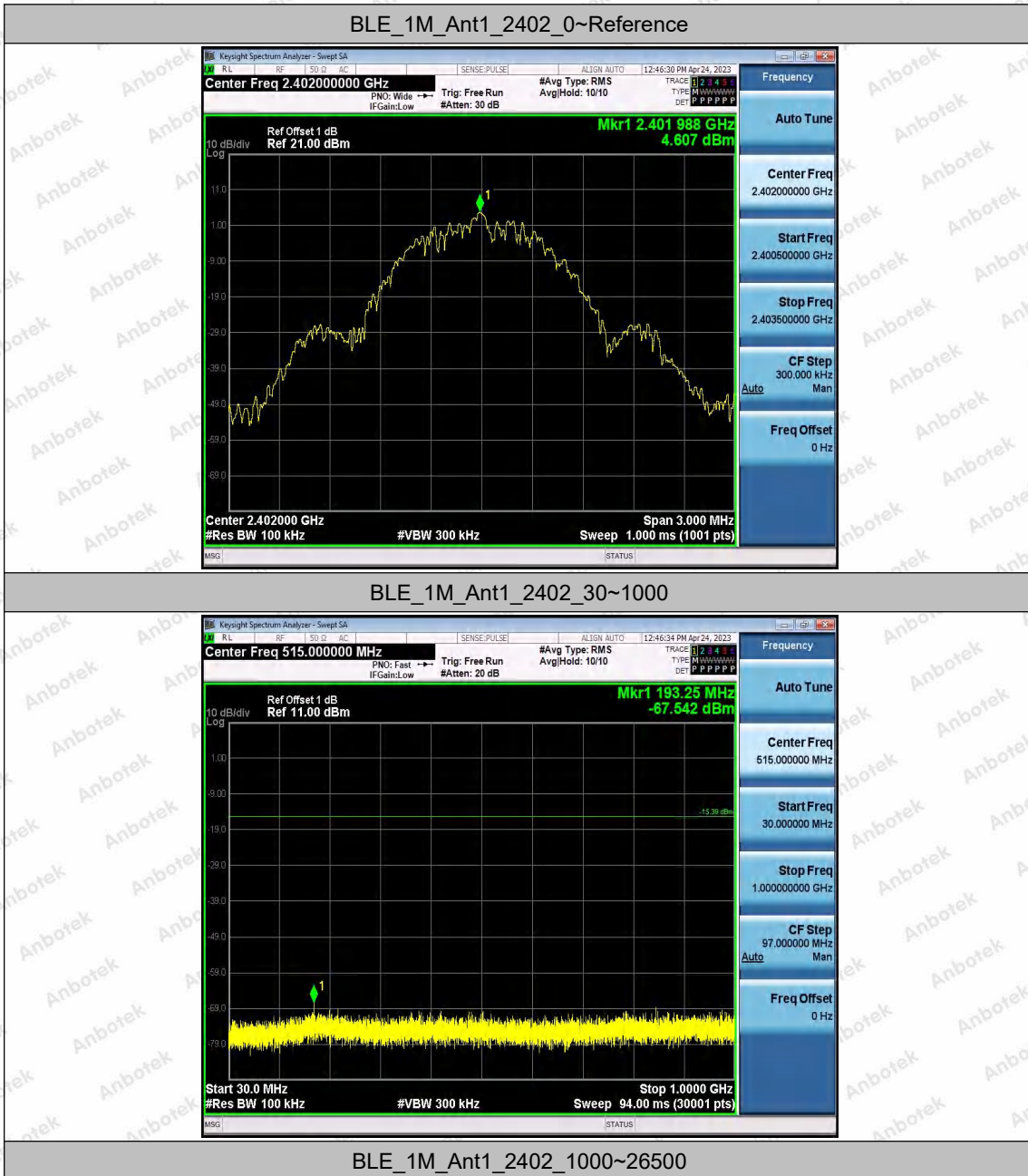
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## Test Graphs

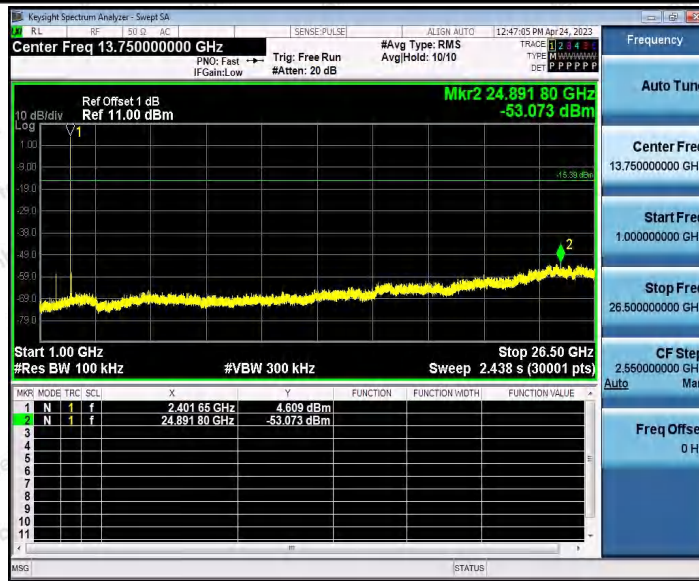


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BLE\_1M\_Ant1\_2440\_0~Reference



BLE\_1M\_Ant1\_2440\_30~1000

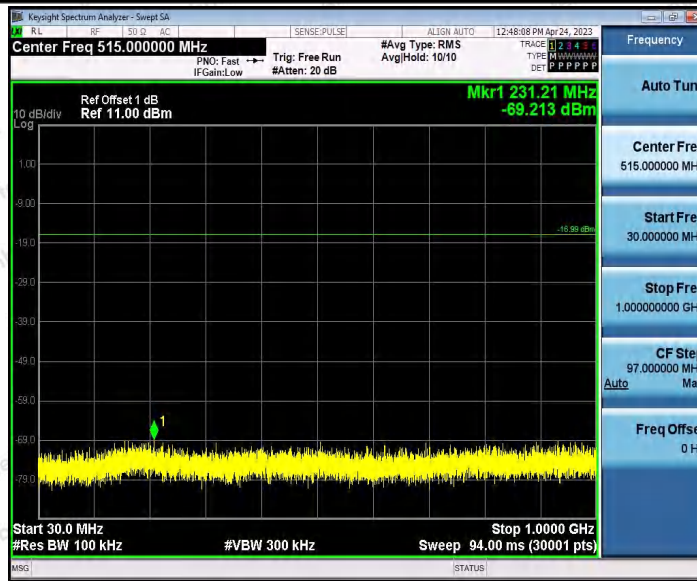
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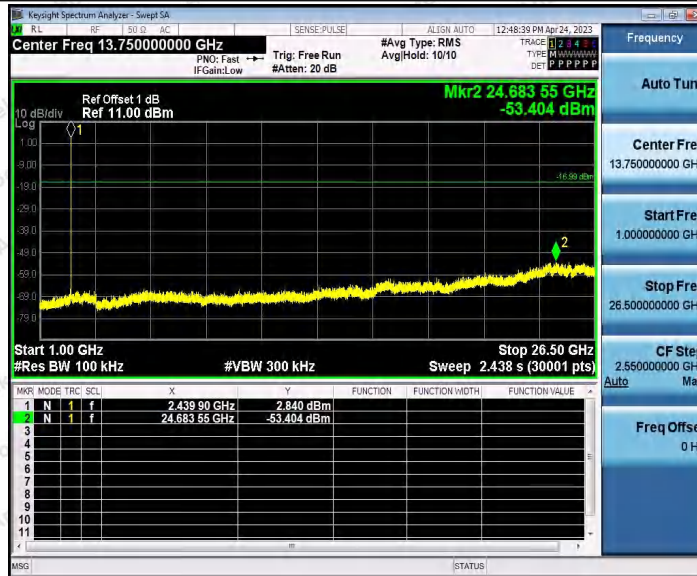


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BLE\_1M\_Ant1\_2440\_1000~26500



BLE\_1M\_Ant1\_2480\_0~Reference

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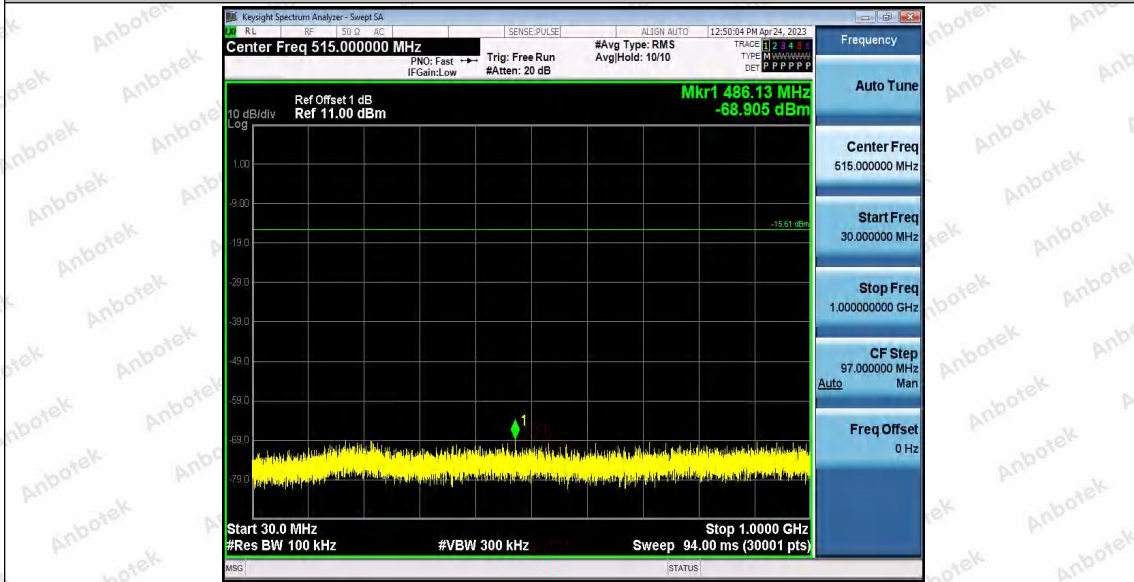
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BLE\_1M\_Ant1\_2480\_30~1000



BLE\_1M\_Ant1\_2480\_1000~26500

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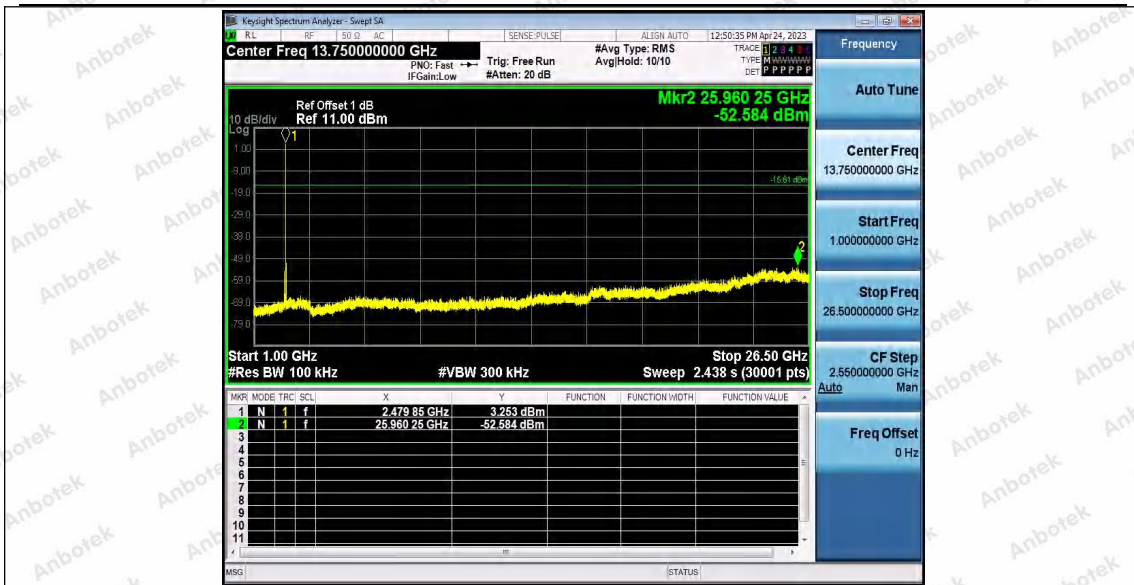
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BLE\_2M\_Ant1\_2402\_0~Reference



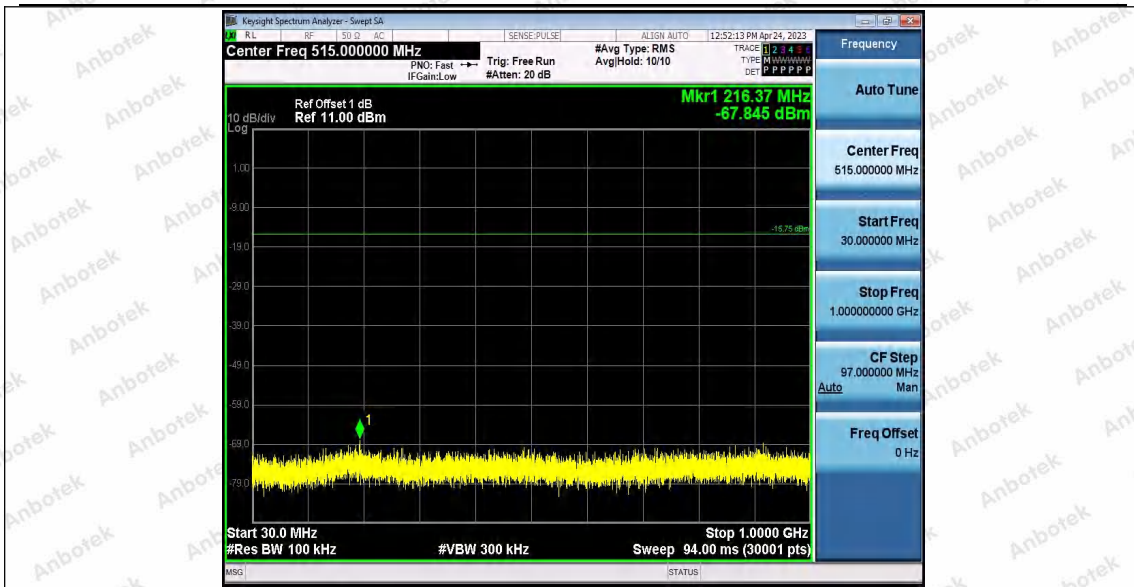
BLE\_2M\_Ant1\_2402\_30~1000

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BLE\_2M\_Ant1\_2402\_1000~26500



BLE\_2M\_Ant1\_2440\_0~Reference

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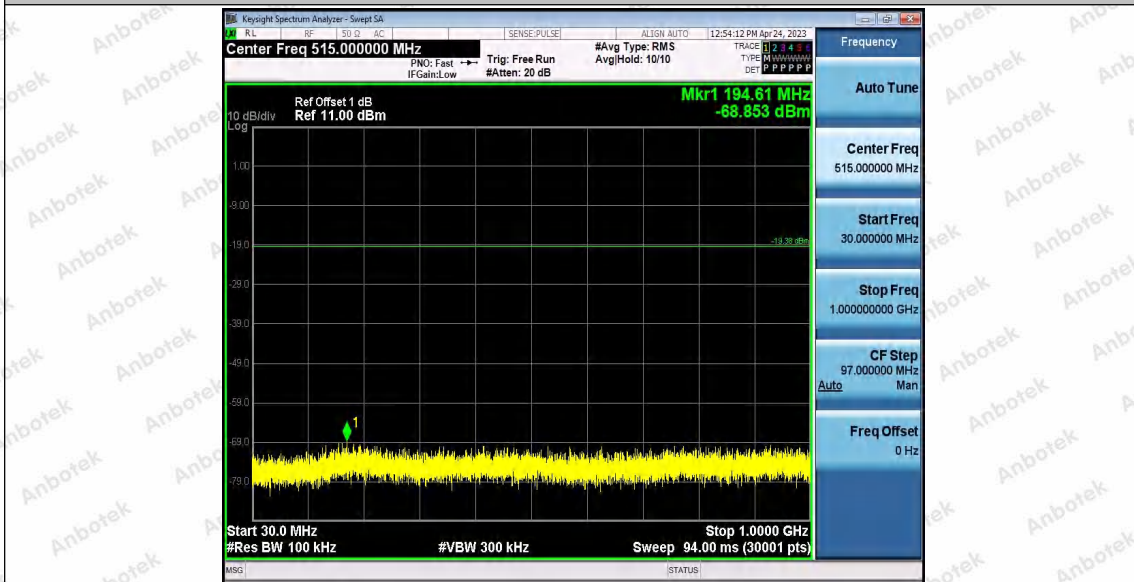
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BLE\_2M\_Ant1\_2440\_30~1000



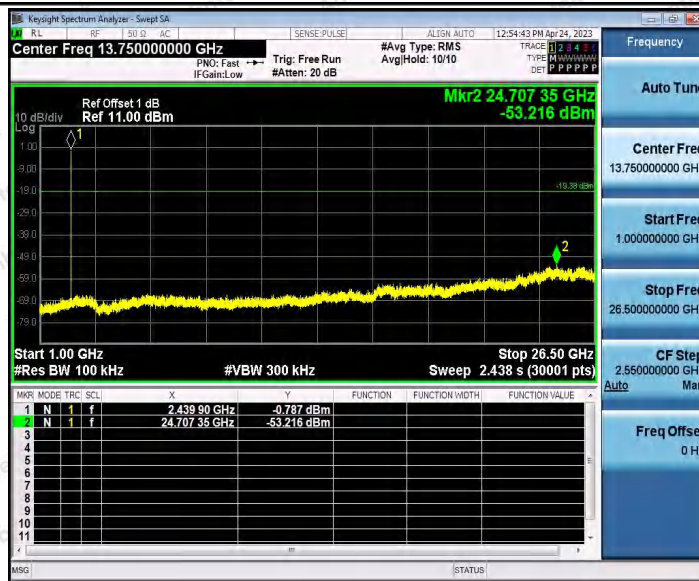
BLE\_2M\_Ant1\_2440\_1000~26500

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BLE\_2M\_Ant1\_2480\_0~Reference



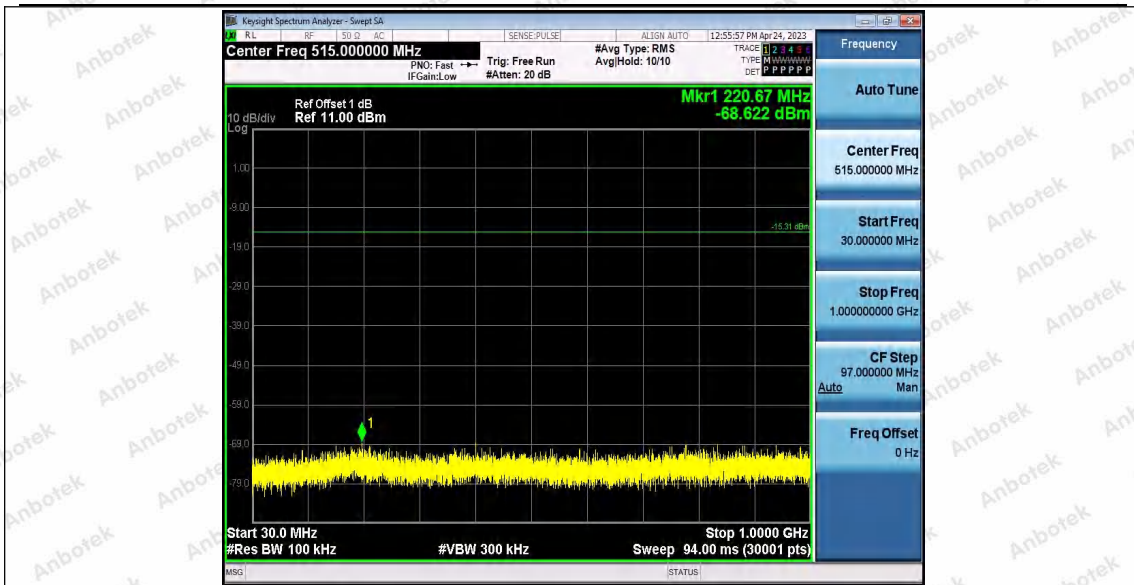
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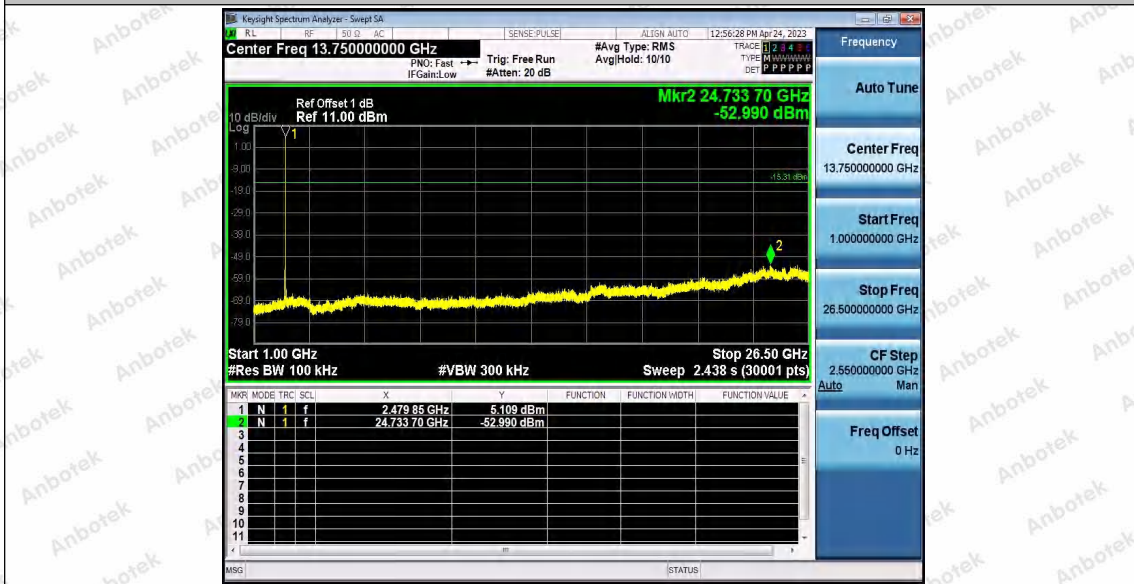
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BLE\_2M\_Ant1\_2480\_1000~26500



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

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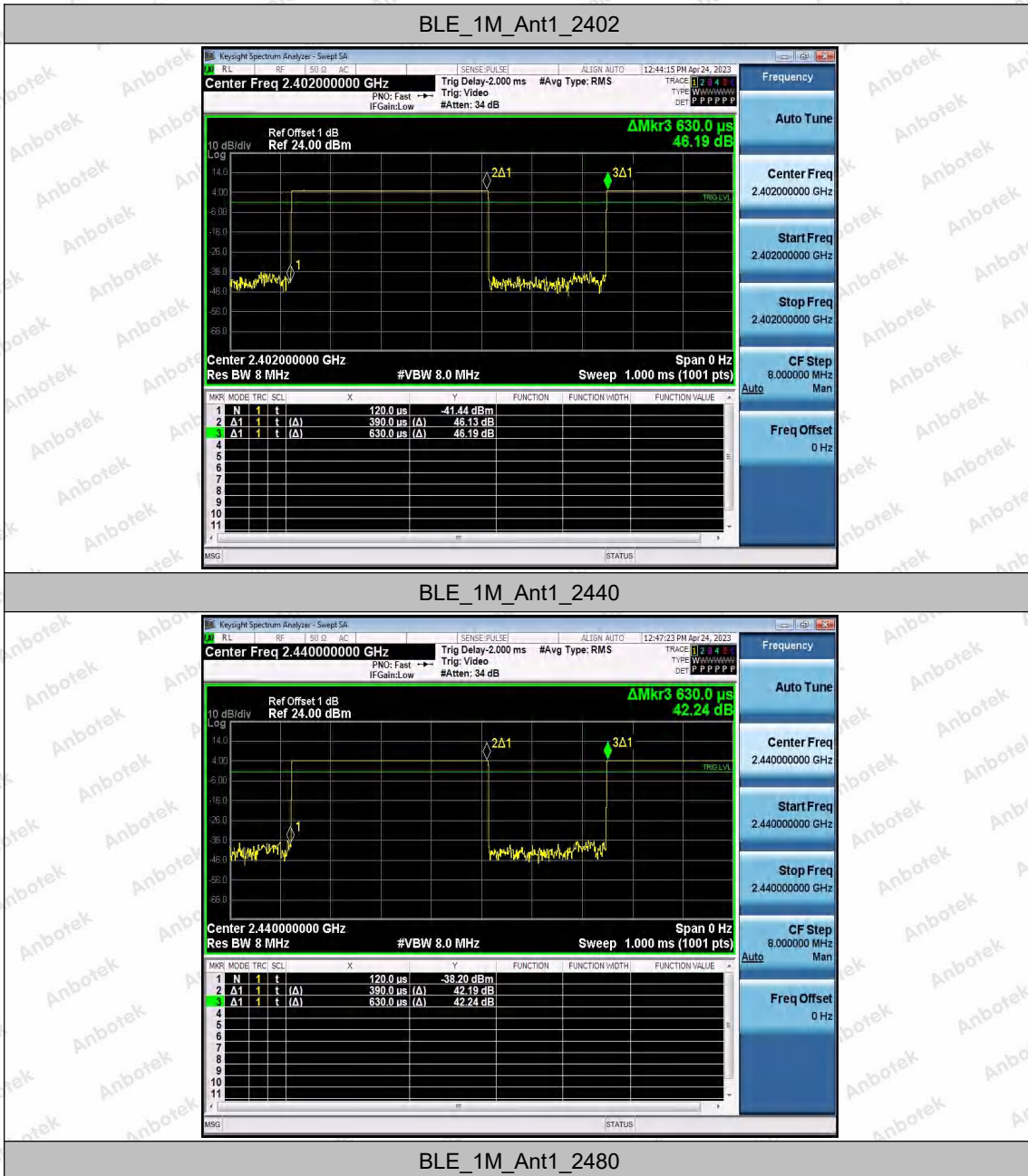
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

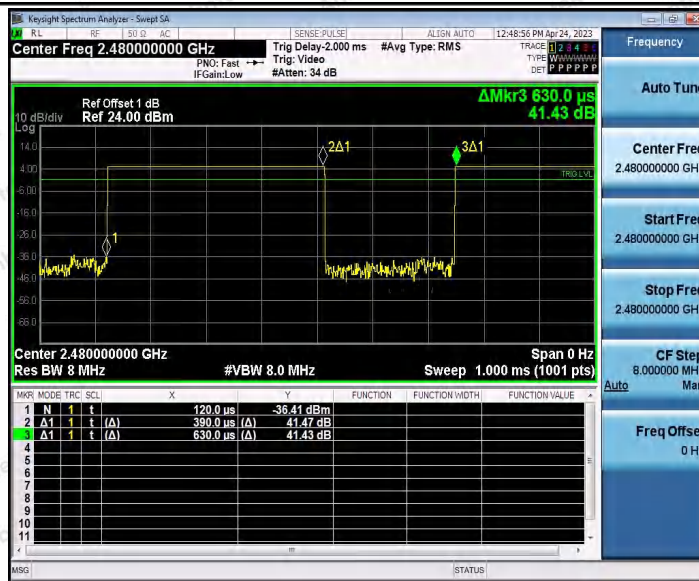


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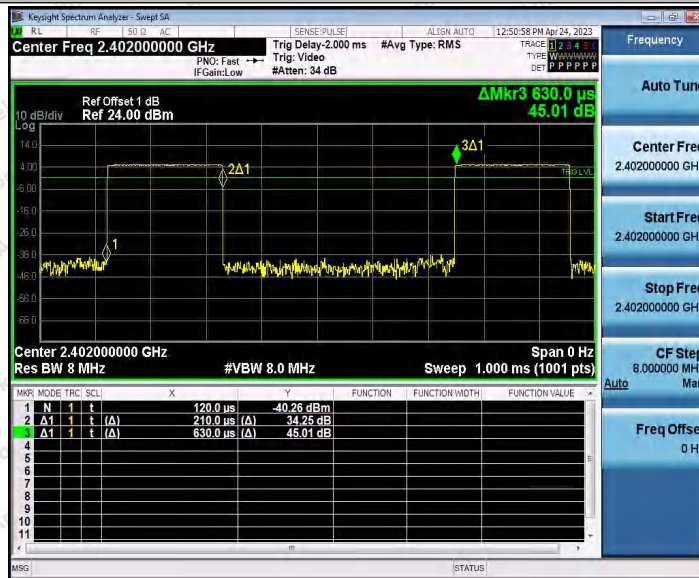


## Test Graphs





BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

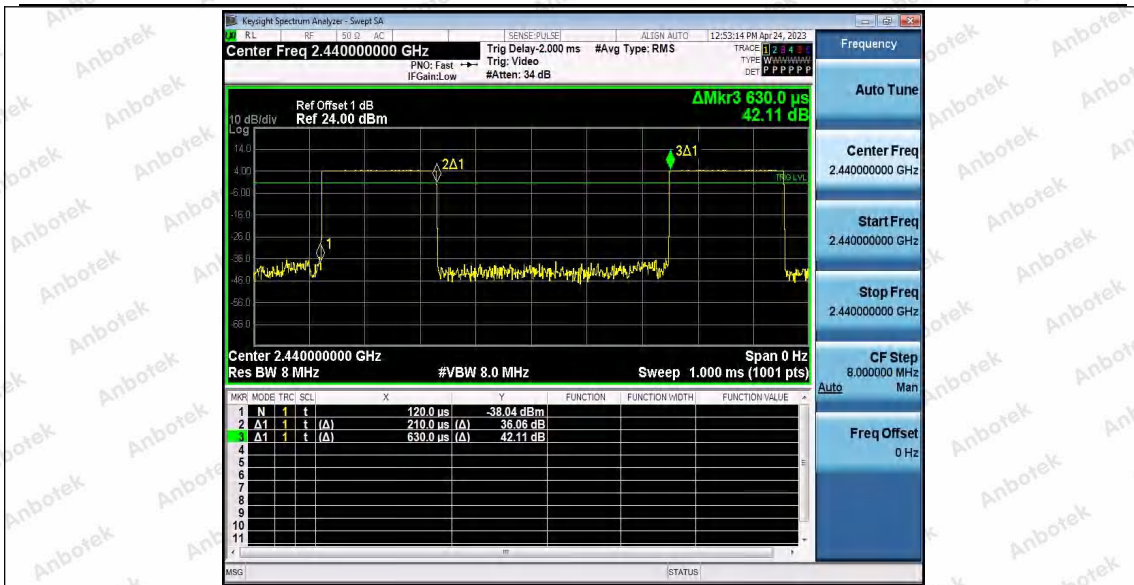
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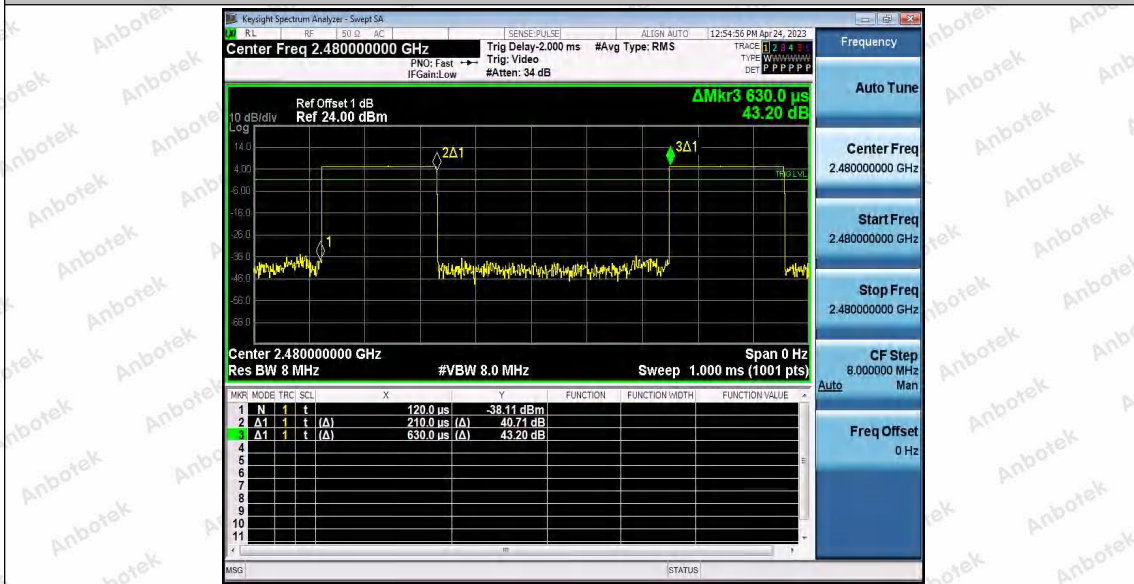
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BLE\_2M\_Ant1\_2480



---End---

