

## Appendix Test Data

Report No.:	18220WC20231401	Test Sample No.:	1-2-2
Start Test Date:	2022.9.30	Finish Test Date:	2022.10.8
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	27.3°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	0.652	2401.636	2402.288	0.5	PASS
		2440	0.608	2439.660	2440.268	0.5	PASS
		2480	0.656	2479.628	2480.284	0.5	PASS
BLE_2M	Ant1	2402	1.112	2401.400	2402.512	0.5	PASS
		2440	1.020	2439.468	2440.488	0.5	PASS
		2480	1.116	2479.416	2480.532	0.5	PASS

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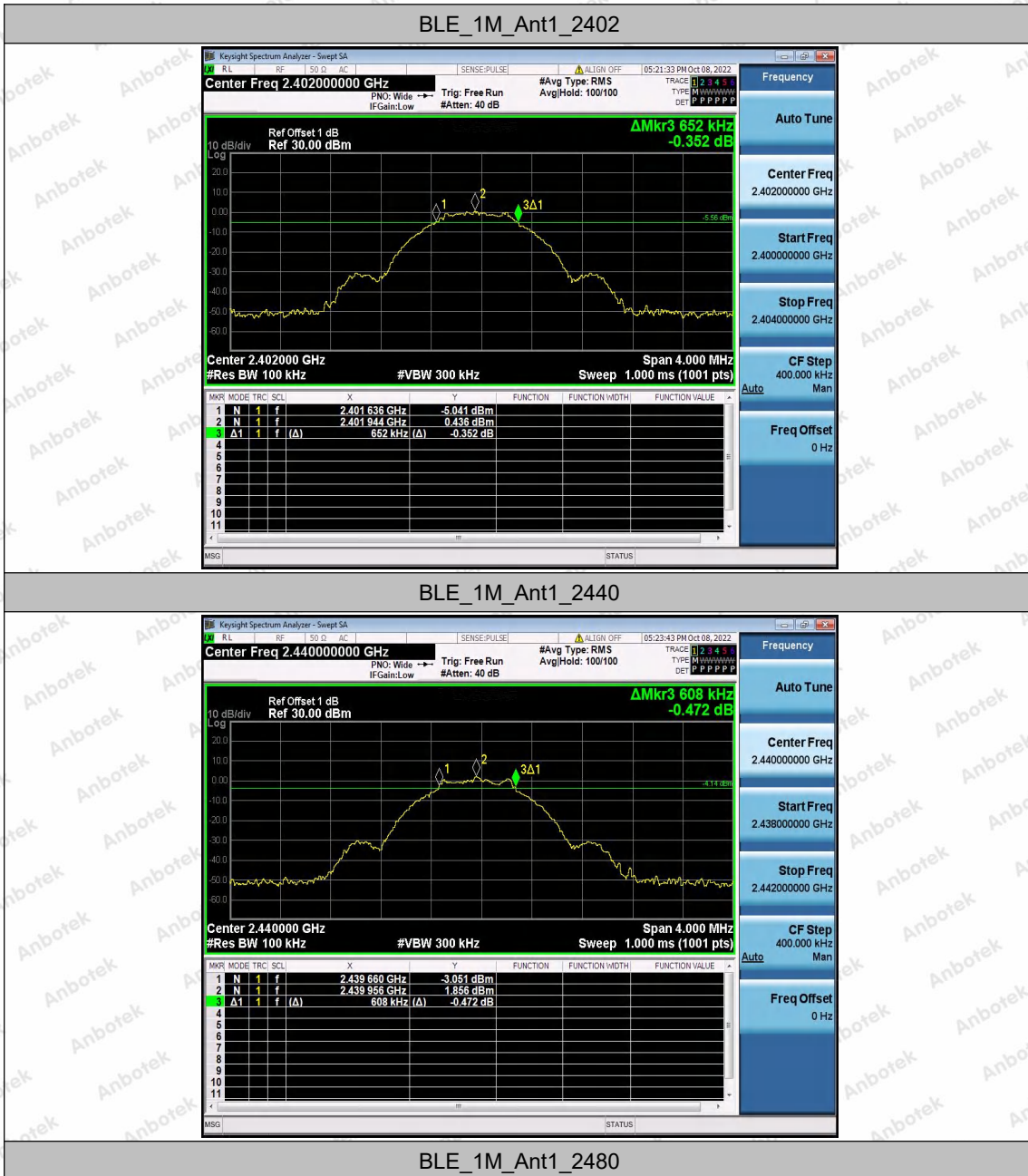
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## Test Graphs



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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 B: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.0312	2401.4442	2402.4754
		2440	1.0293	2439.4435	2440.4728
		2480	1.0244	2479.4438	2480.4682
BLE_2M	Ant1	2402	2.0492	2400.9438	2402.9930
		2440	2.0487	2438.9448	2440.9935
		2480	2.0541	2478.9456	2480.9997

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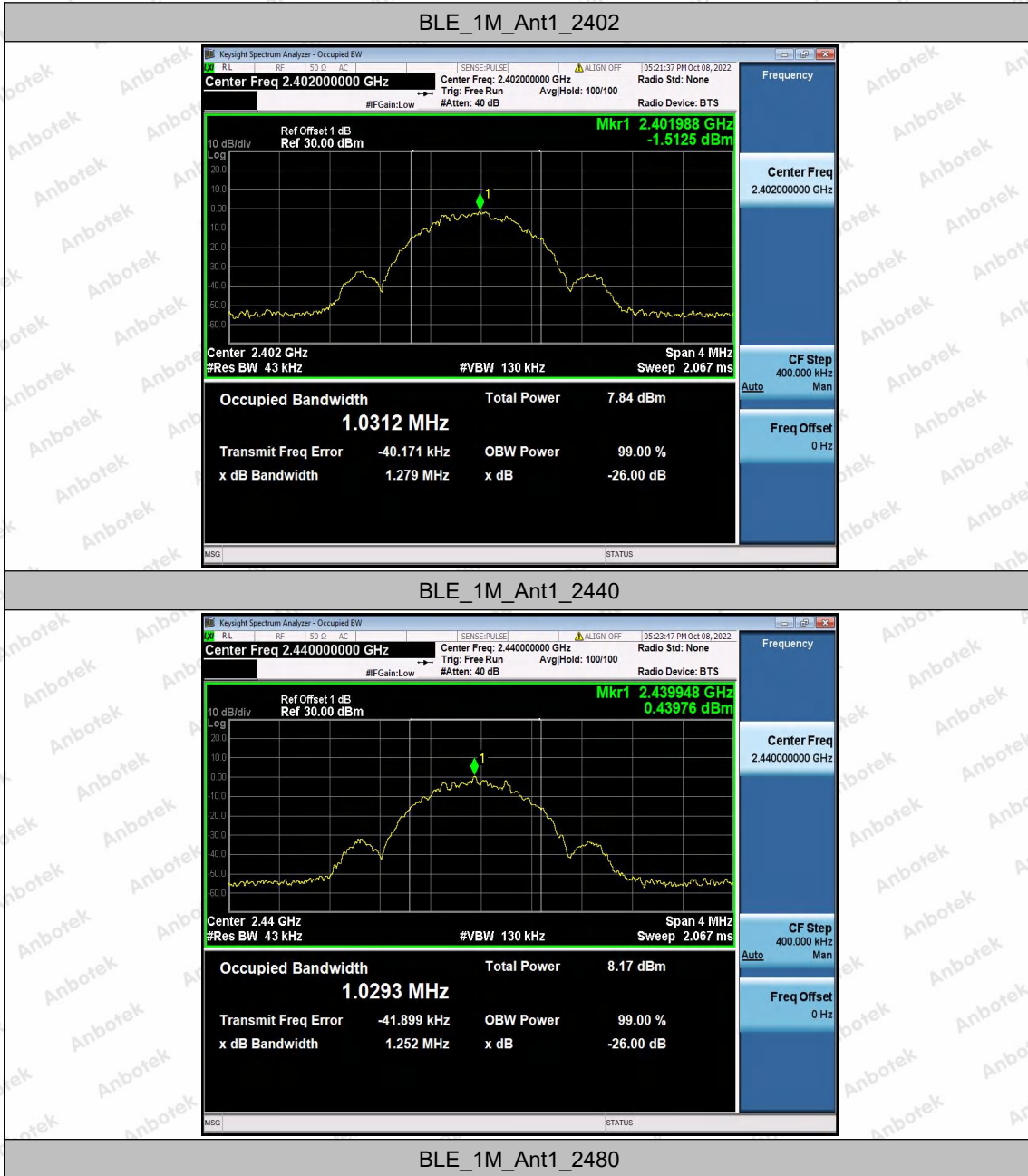
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## Test Graphs



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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440





BLE\_2M\_Ant1\_2480



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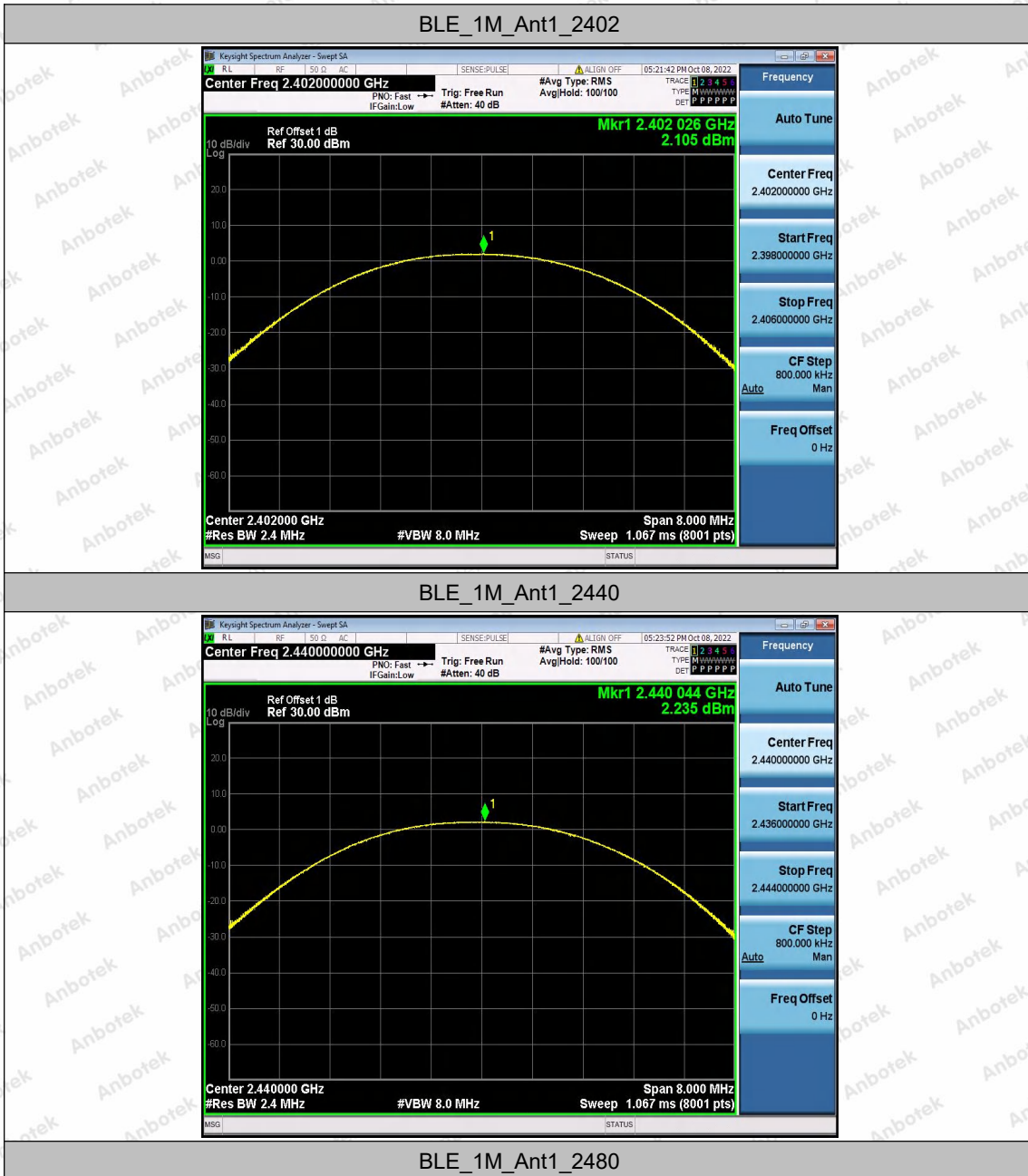
## Appendix C: Maximum conducted output power

### Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.11	≤30	PASS
		2440	2.24	≤30	PASS
		2480	2.38	≤30	PASS
BLE_2M	Ant1	2402	2.26	≤30	PASS
		2440	2.85	≤30	PASS
		2480	2.68	≤30	PASS



## Test Graphs Peak



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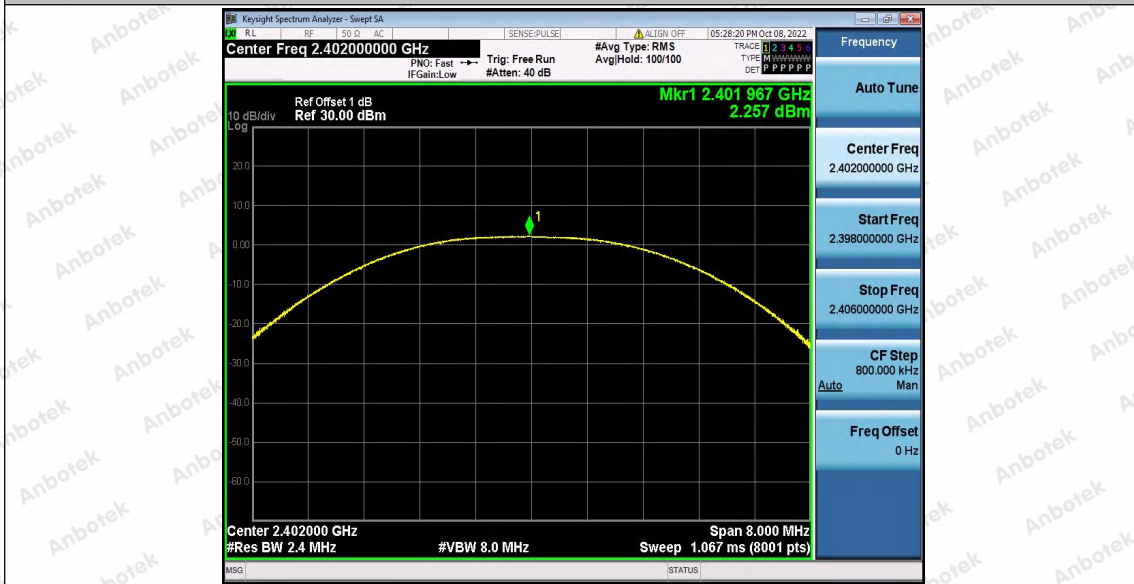
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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BLE\_2M\_Ant1\_2402



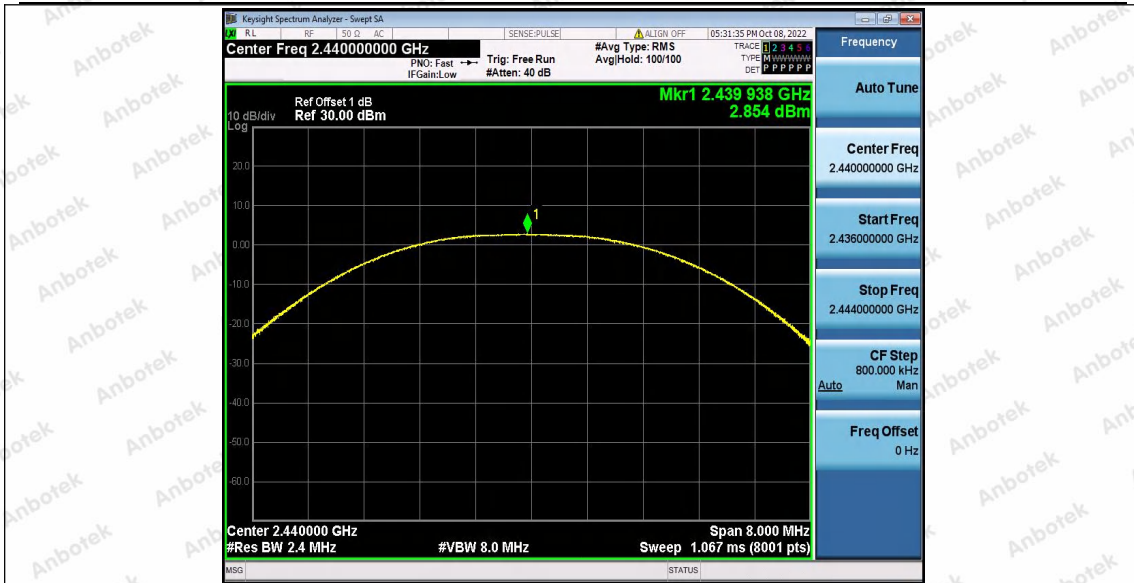
BLE\_2M\_Ant1\_2440

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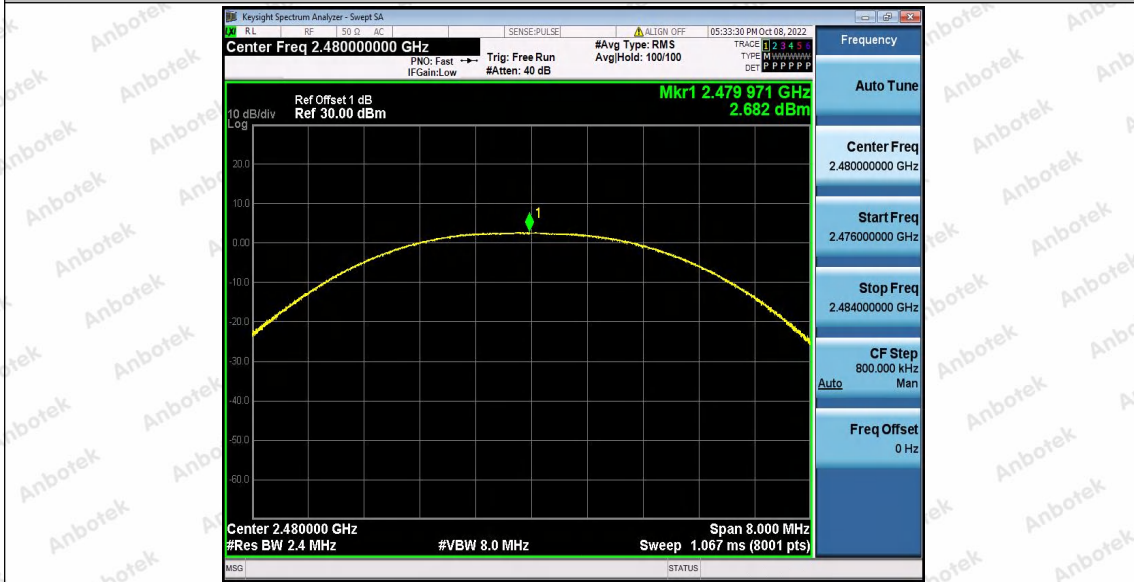
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BLE\_2M\_Ant1\_2480



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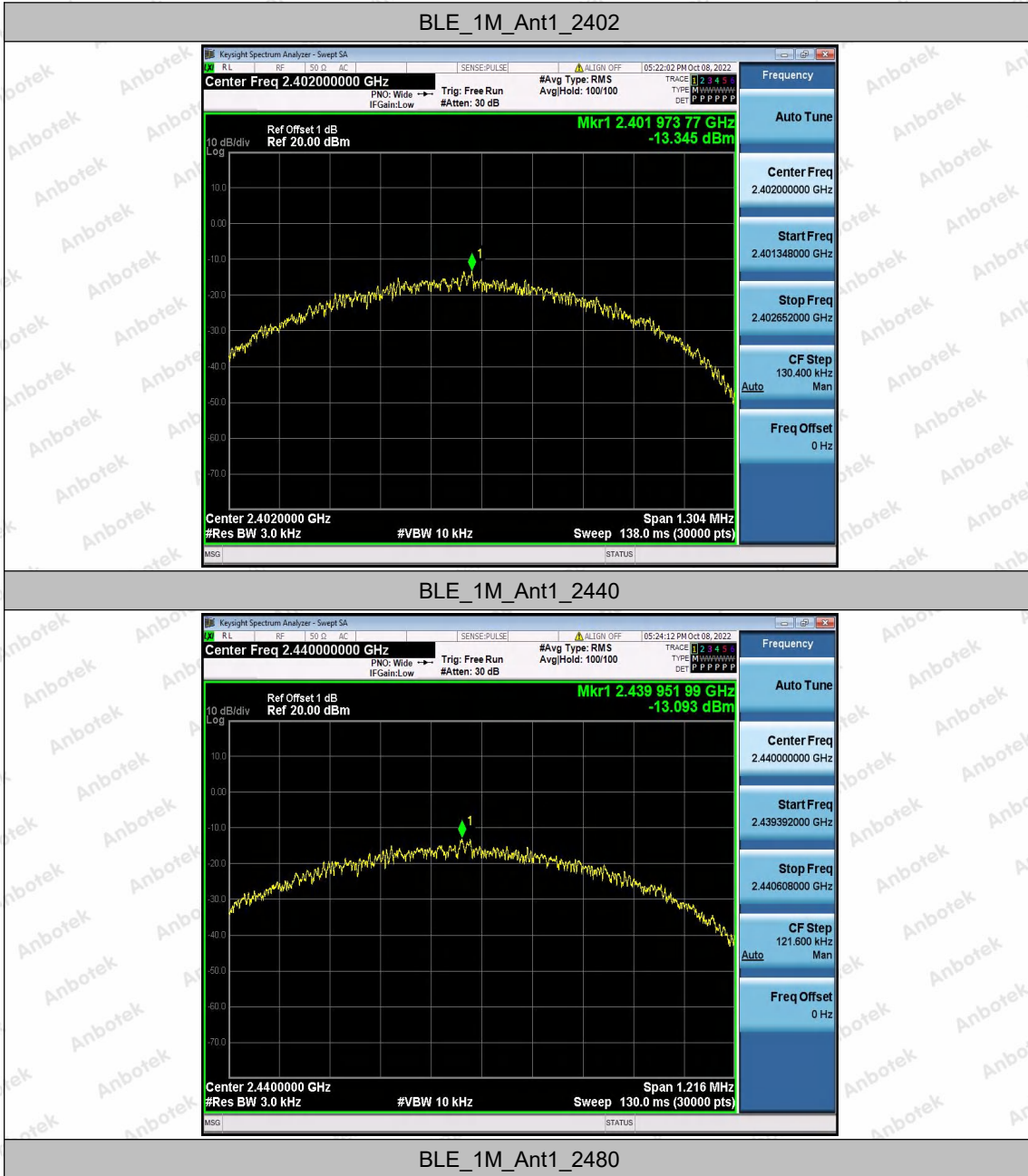
## Appendix D: Maximum power spectral density

### Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.35	≤8.00	PASS
		2440	-13.09	≤8.00	PASS
		2480	-12.82	≤8.00	PASS
BLE_2M	Ant1	2402	-14.97	≤8.00	PASS
		2440	-14.26	≤8.00	PASS
		2480	-14.39	≤8.00	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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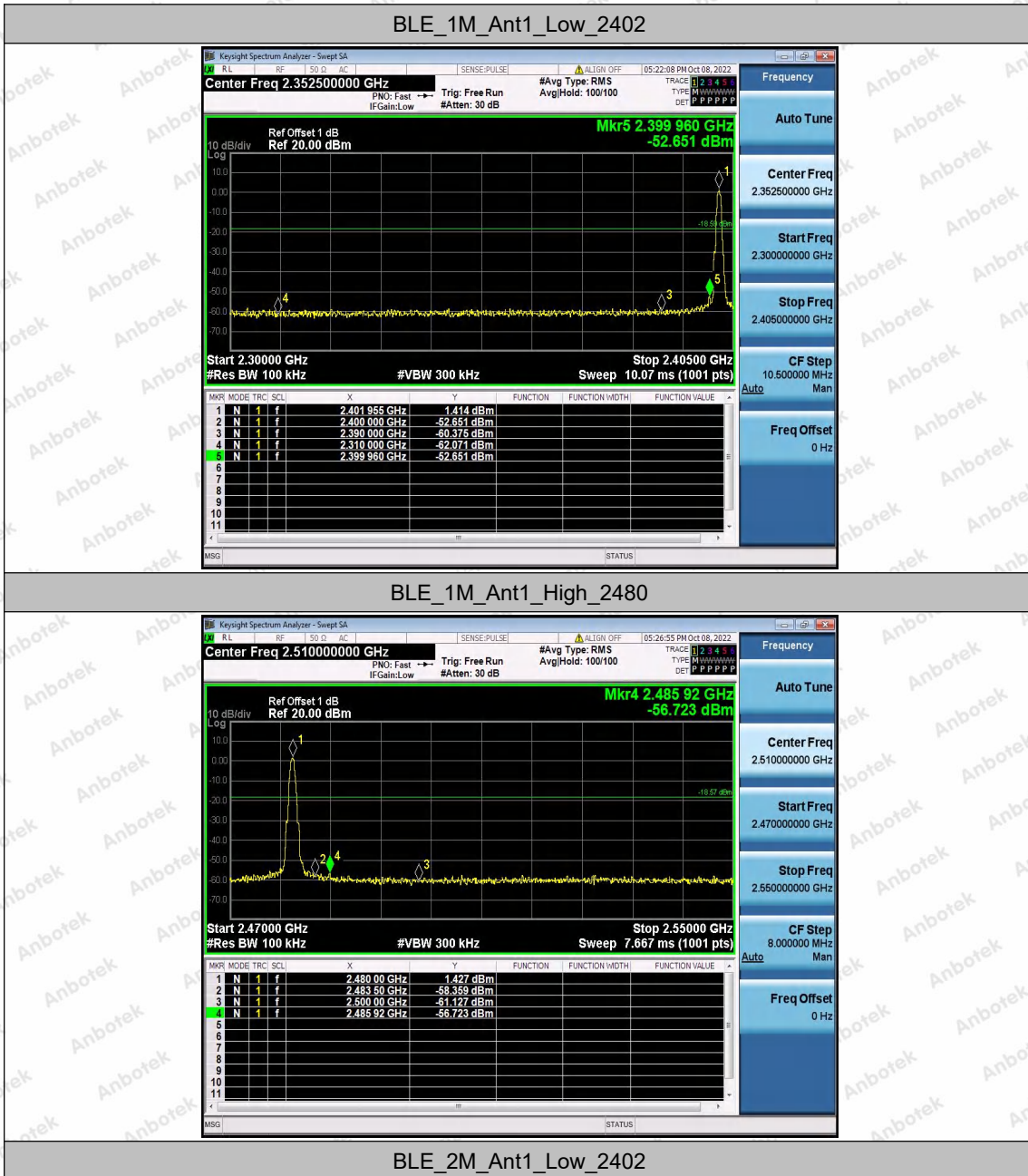
## Appendix E: Band edge measurements

### Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	1.41	-52.65	≤-18.59	PASS
		High	2480	1.43	-56.72	≤-18.57	PASS
BLE_2M	Ant1	Low	2402	2.26	-46.83	≤-17.74	PASS
		High	2480	1.25	-56.41	≤-18.75	PASS



## Test Graphs

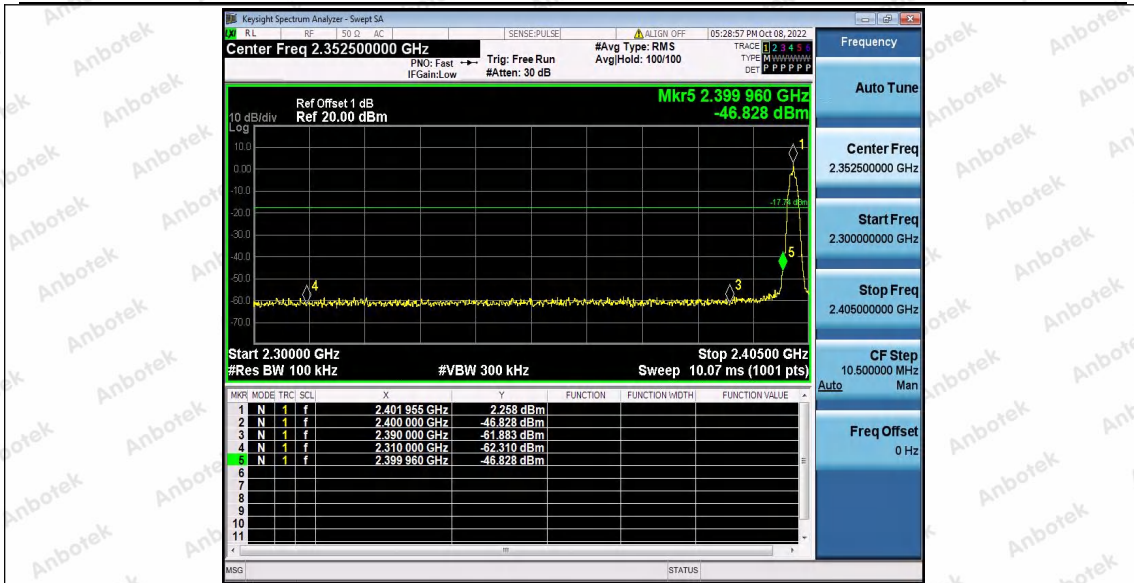


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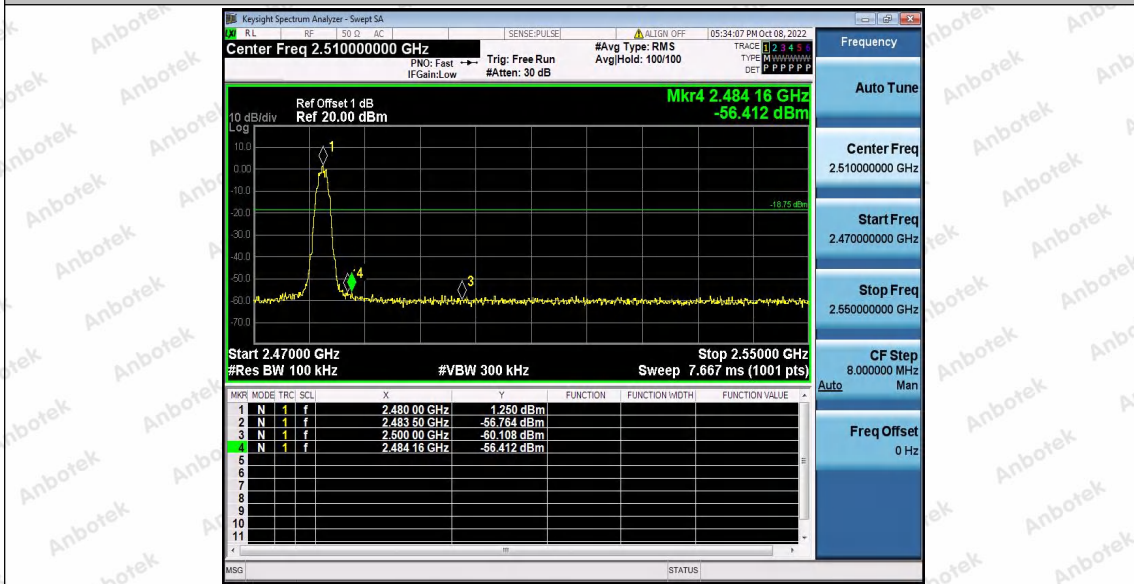
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BLE\_2M\_Ant1\_High\_2480



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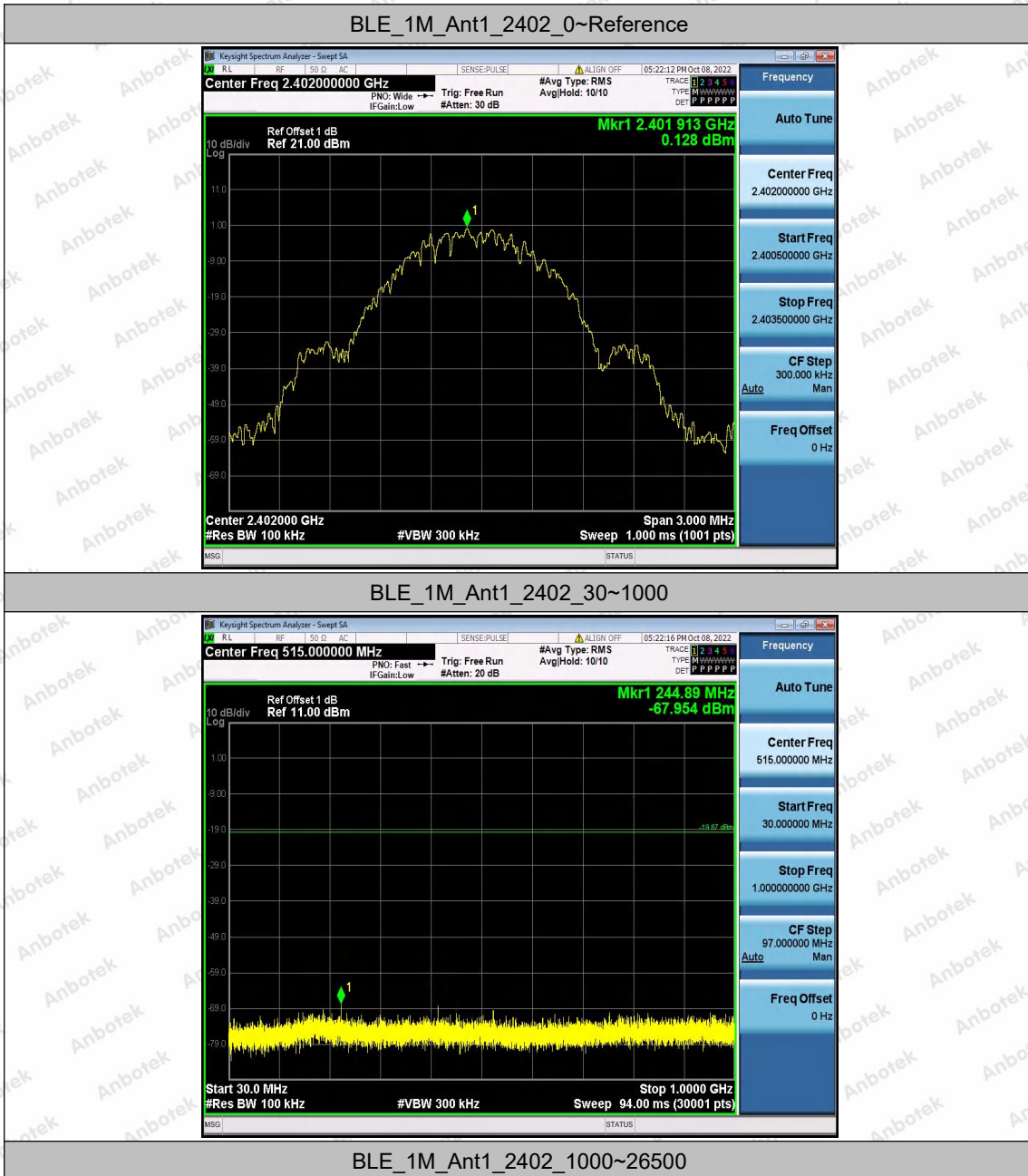
## Appendix F: Conducted Spurious Emission

### Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.13	0.13	---	PASS
			30~1000	0.13	-67.95	≤-19.87	PASS
			1000~26500	0.13	-53.95	≤-19.87	PASS
		2440	Reference	1.80	1.80	---	PASS
			30~1000	1.80	-68.9	≤-18.2	PASS
			1000~26500	1.80	-53.5	≤-18.2	PASS
		2480	Reference	0.28	0.28	---	PASS
			30~1000	0.28	-69.47	≤-19.72	PASS
			1000~26500	0.28	-53.96	≤-19.72	PASS
BLE_2M	Ant1	2402	Reference	1.72	1.72	---	PASS
			30~1000	1.72	-68.98	≤-18.28	PASS
			1000~26500	1.72	-53.55	≤-18.28	PASS
		2440	Reference	1.68	1.68	---	PASS
			30~1000	1.68	-68.97	≤-18.32	PASS
			1000~26500	1.68	-53.75	≤-18.32	PASS
		2480	Reference	-0.96	-0.96	---	PASS
			30~1000	-0.96	-69.91	≤-20.96	PASS
			1000~26500	-0.96	-53.91	≤-20.96	PASS



## Test Graphs

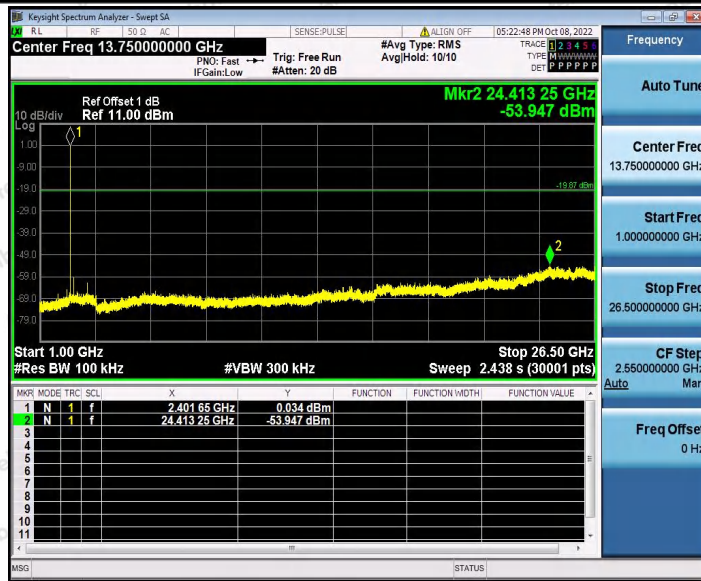


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BLE\_1M\_Ant1\_2440\_0~Reference



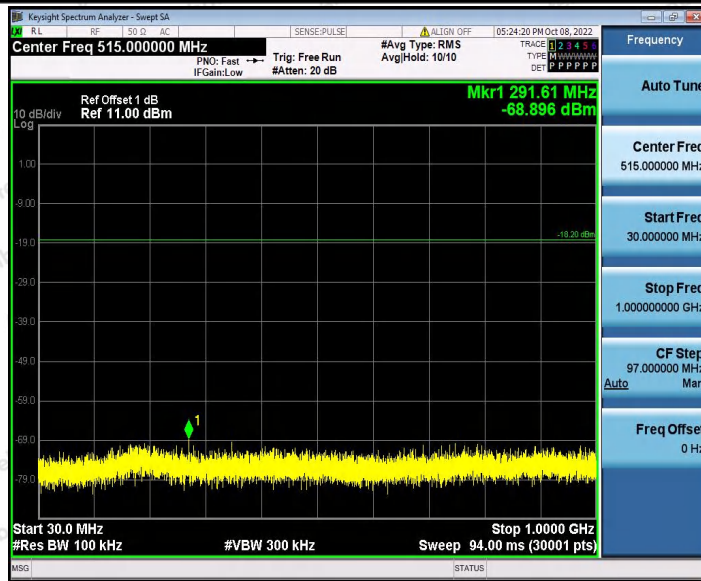
BLE\_1M\_Ant1\_2440\_30~1000

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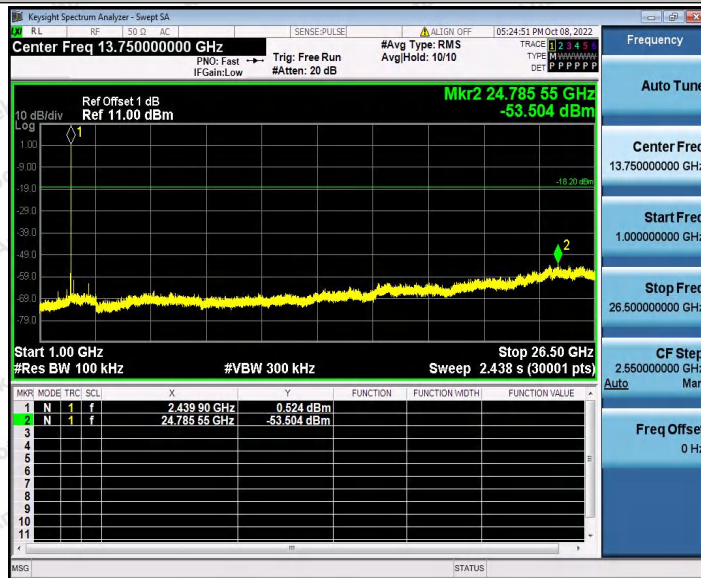
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BLE\_1M\_Ant1\_2440\_1000~26500



BLE\_1M\_Ant1\_2480\_0~Reference

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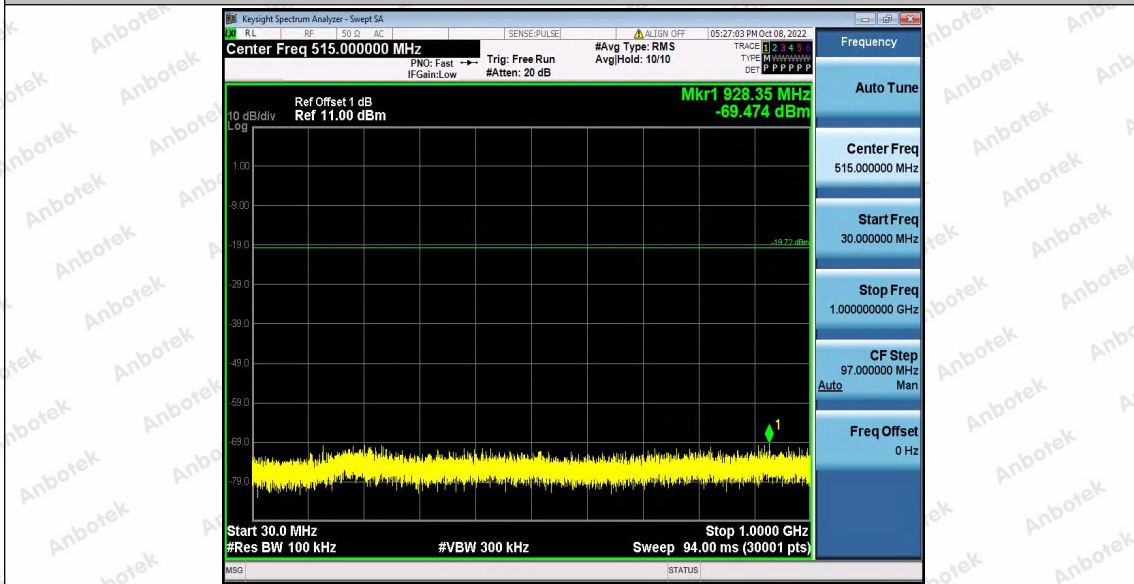
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BLE\_1M\_Ant1\_2480\_30~1000



BLE\_1M\_Ant1\_2480\_1000~26500

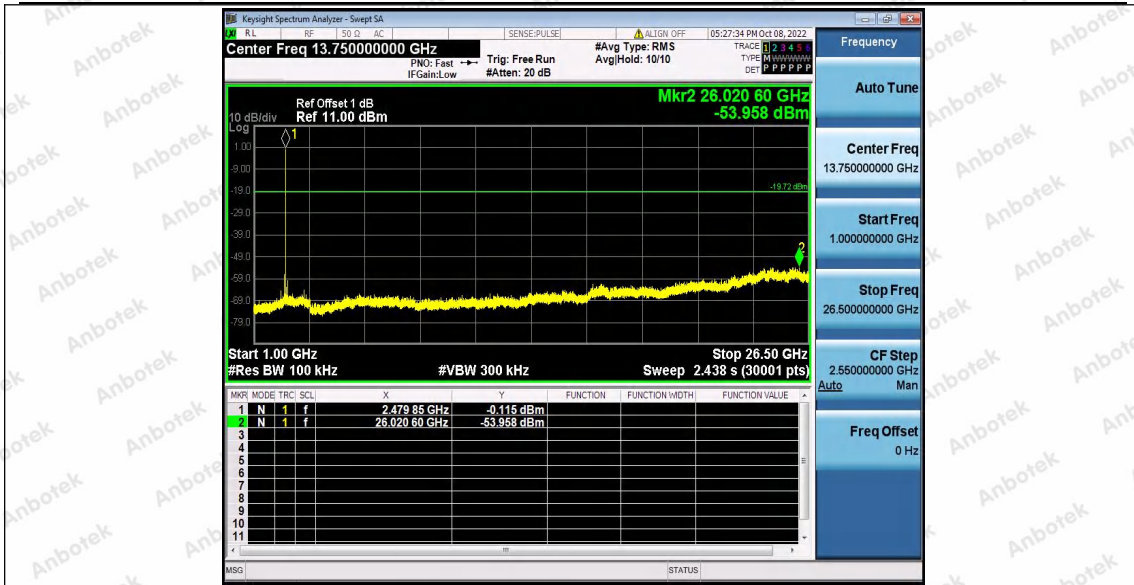
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BLE\_2M\_Ant1\_2402\_0~Reference



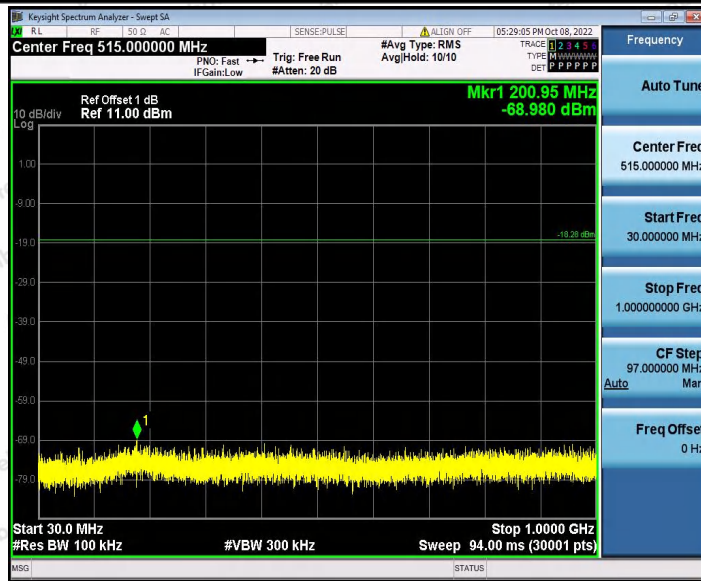
BLE\_2M\_Ant1\_2402\_30~100

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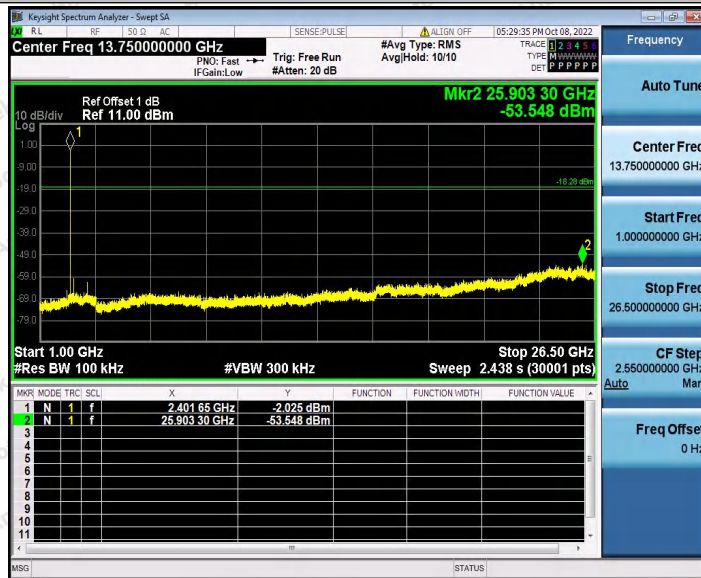
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BLE\_2M\_Ant1\_2402\_1000~26500



BLE\_2M\_Ant1\_2440\_0~Reference

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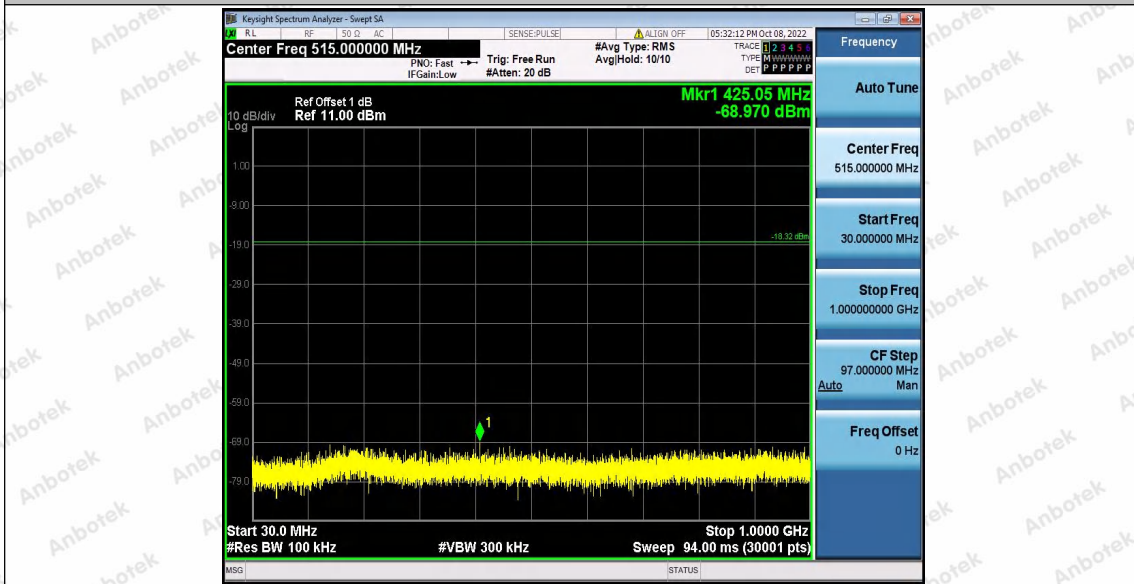
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BLE\_2M\_Ant1\_2440\_30~1000



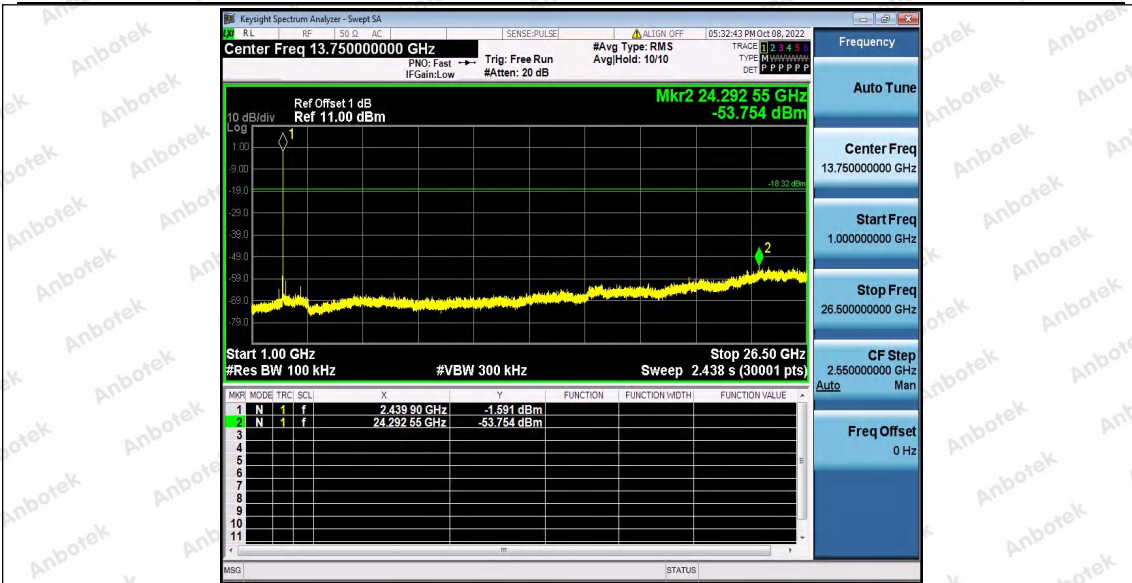
BLE\_2M\_Ant1\_2440\_1000~26500

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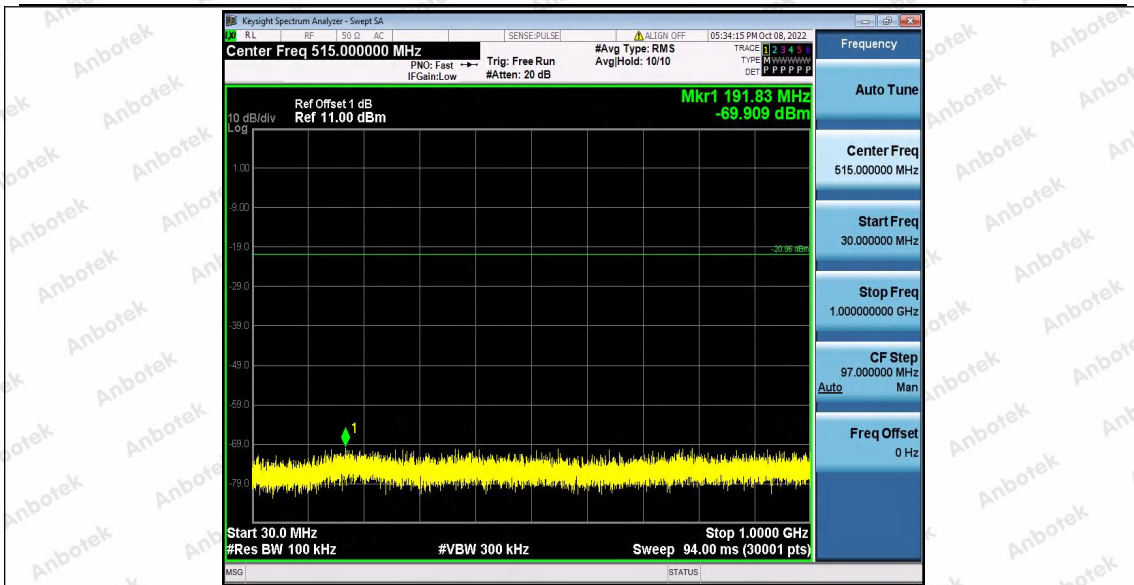
BLE\_2M\_Ant1\_2480\_30~1000

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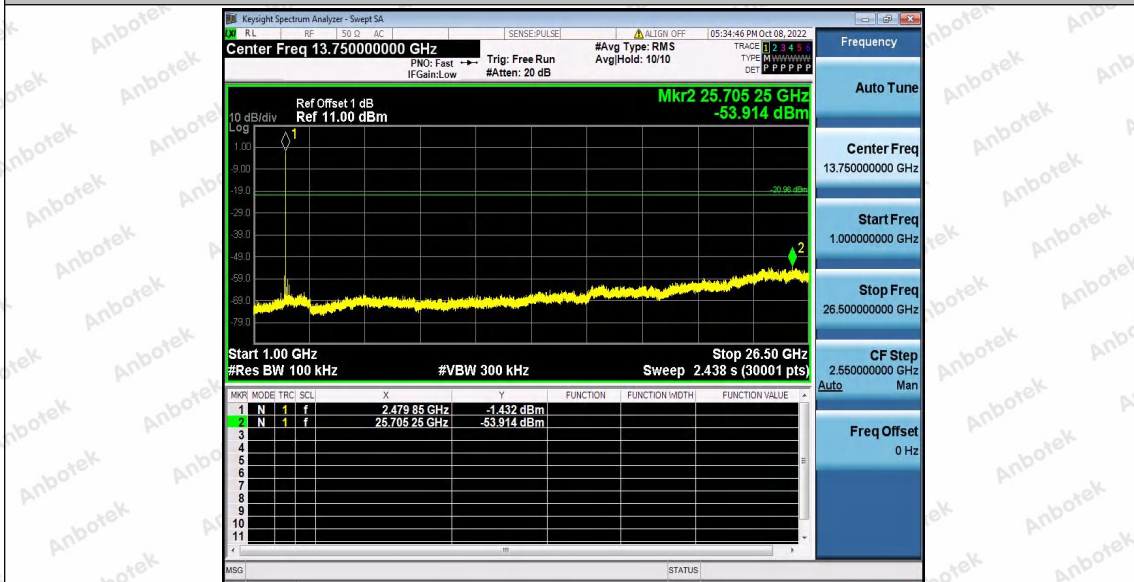
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## Appendix G: Duty Cycle

### Test Result

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

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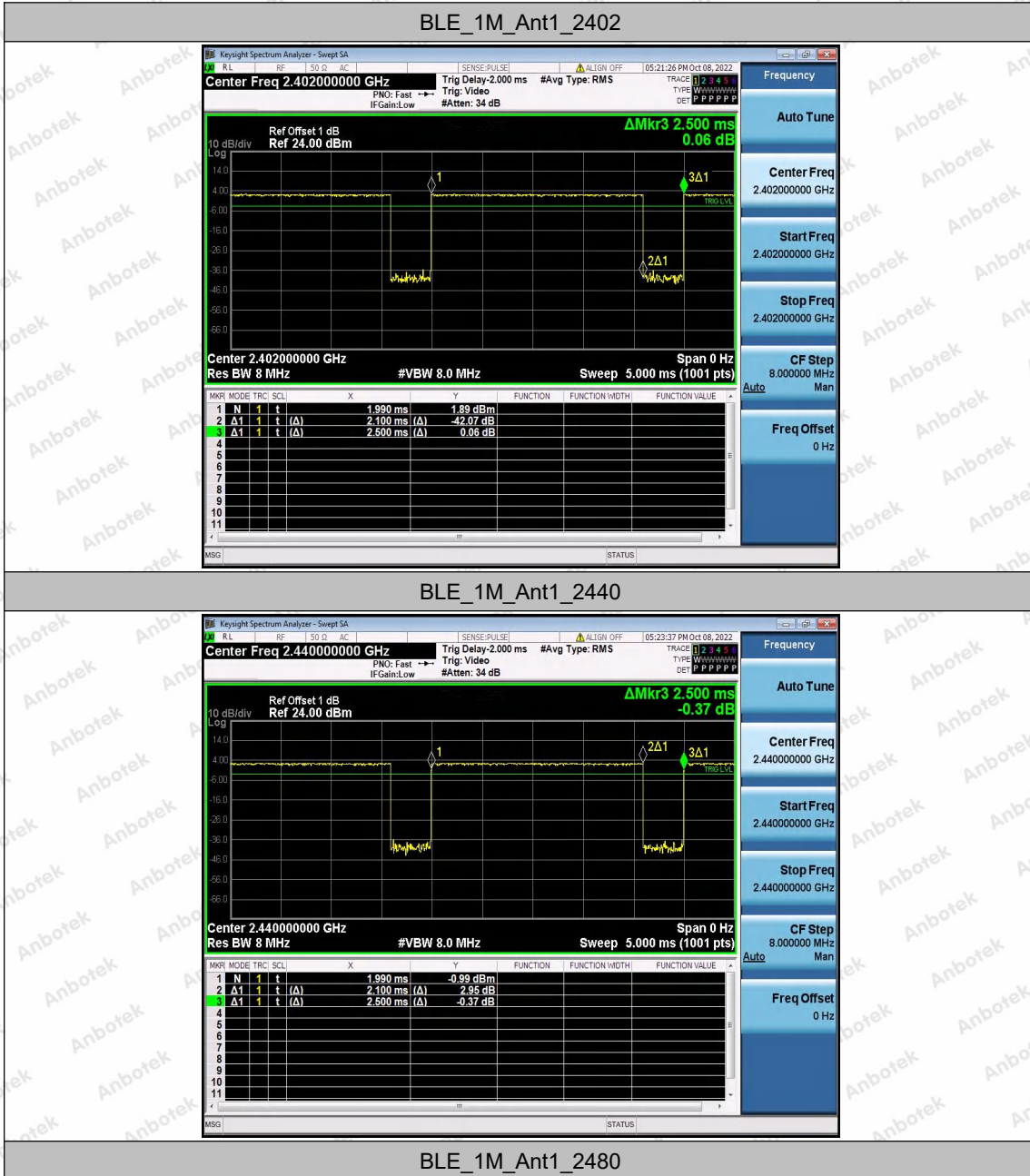
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

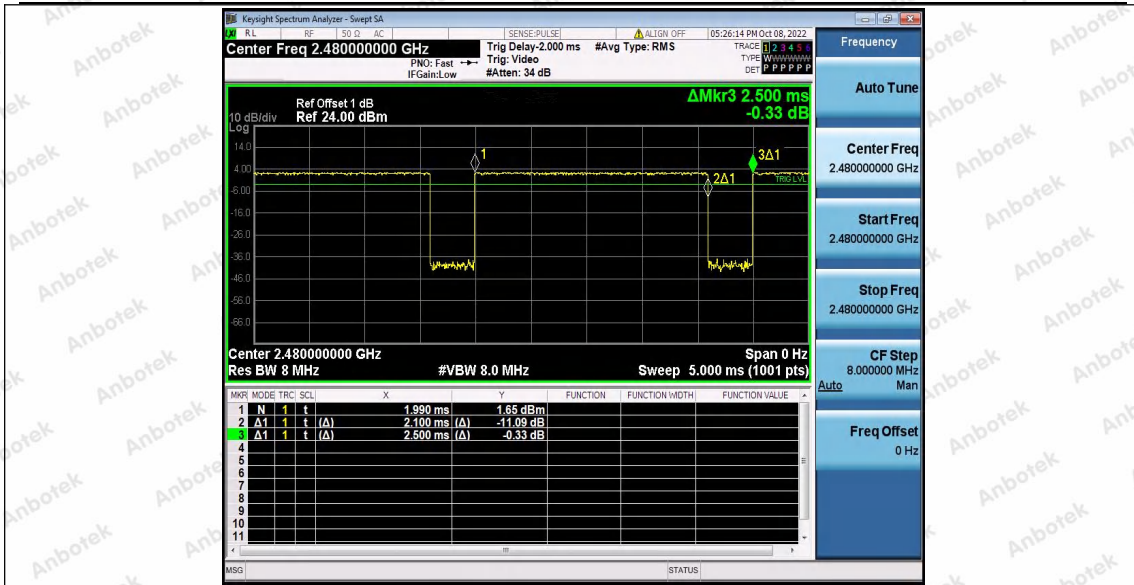


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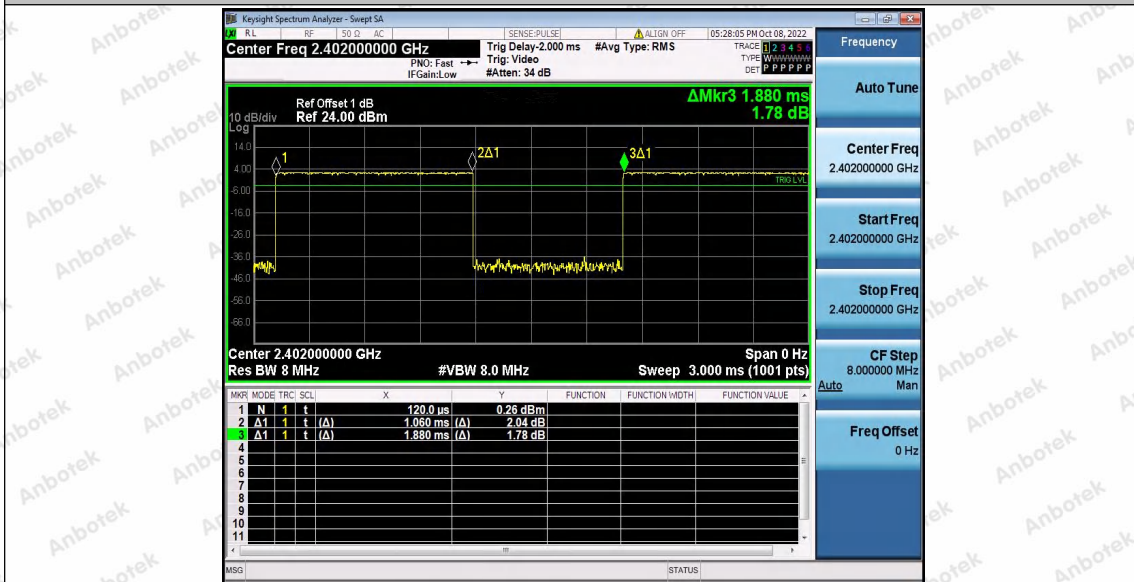


## Test Graphs





BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

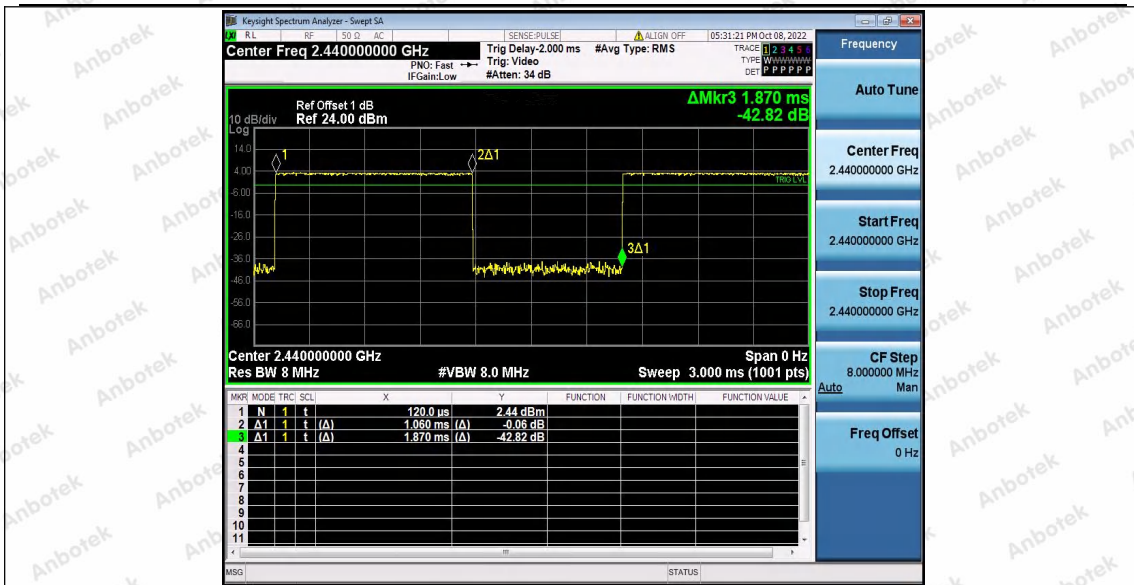
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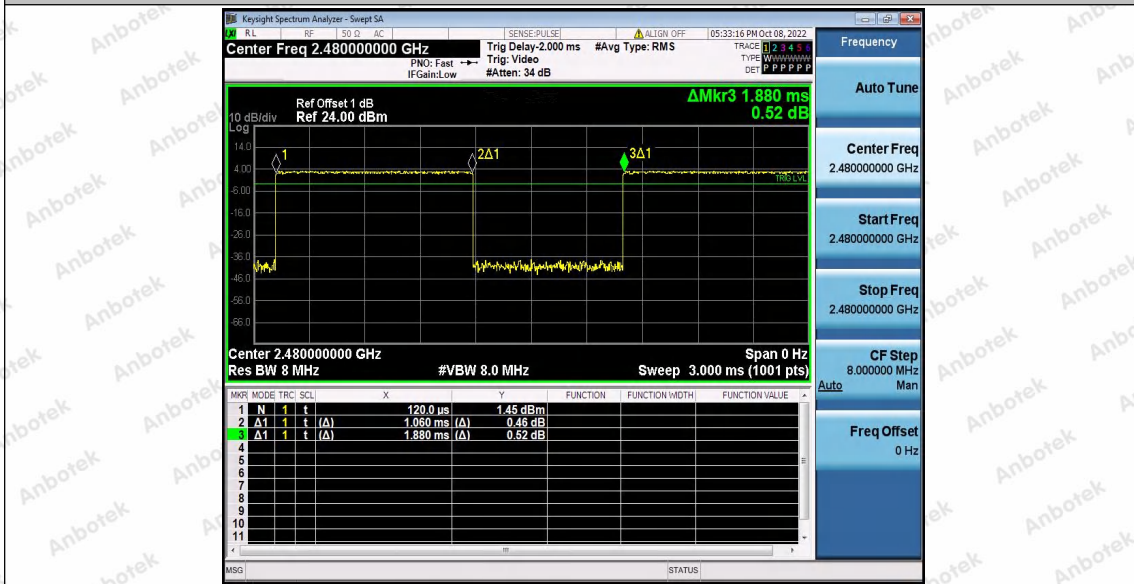
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BLE\_2M\_Ant1\_2480



---End---

