

## Appendix Test Data

Report No.:	18220WC40042202	Test Sample No.:	1-2-2
Start Test Date:	2024.04.13	Finish Test Date:	2024.05.15
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.3°C	Relative Humidity:	48%
Pressure:	101kPa		

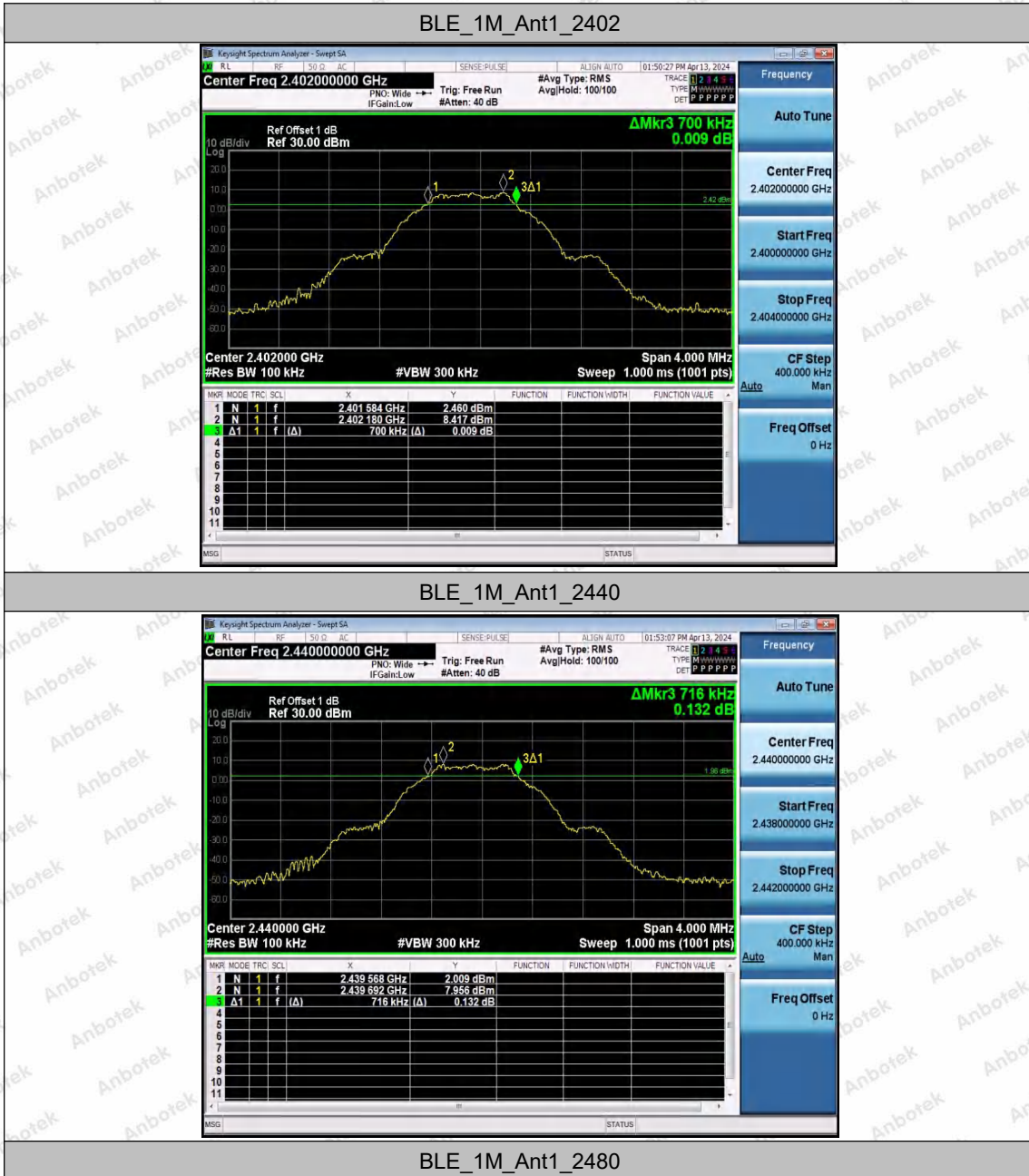
## Appendix A: 6dB Bandwidth

## Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.700	2401.584	2402.284	0.5	PASS
		2440	0.716	2439.568	2440.284	0.5	PASS
		2480	0.712	2479.564	2480.276	0.5	PASS
BLE_2M	Ant1	2402	1.140	2401.368	2402.508	0.5	PASS
		2440	1.336	2439.252	2440.588	0.5	PASS
		2480	1.232	2479.288	2480.520	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: 99% Occupied Bandwidth

### Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0491	2401.4142	2402.4633	---	---
		2440	1.0489	2439.4122	2440.4611	---	---
		2480	1.0500	2479.4070	2480.4570	---	---
BLE_2M	Ant1	2402	2.1028	2400.8888	2402.9916	---	---
		2440	2.0853	2438.9054	2440.9907	---	---
		2480	2.1029	2478.8863	2480.9892	---	---

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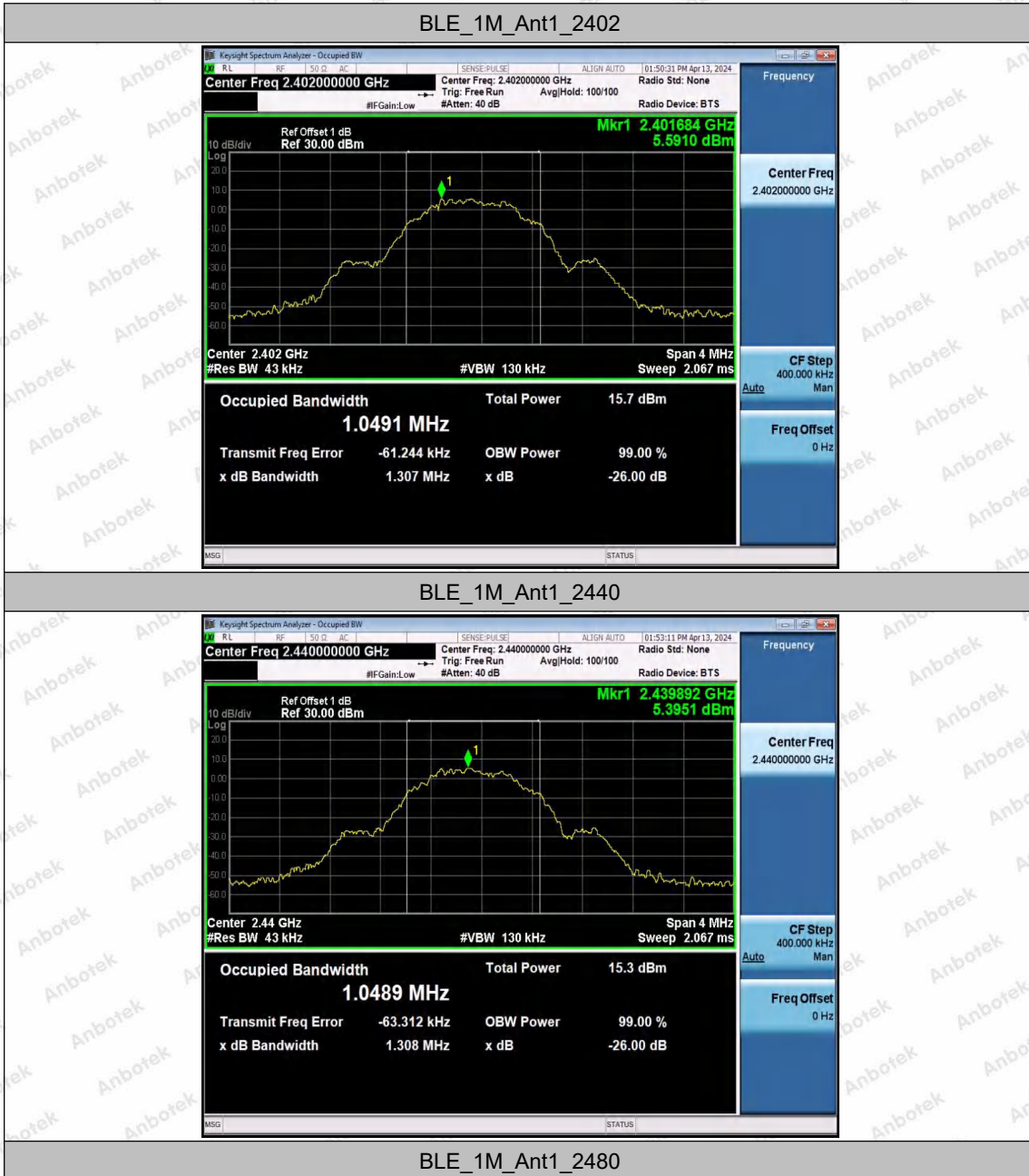
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## Test Graphs



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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

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## 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	9.55	≤30	PASS
		2440	9.14	≤30	PASS
		2480	8.36	≤30	PASS
BLE_2M	Ant1	2402	<b>9.67</b>	≤30	PASS
		2440	9.14	≤30	PASS
		2480	8.41	≤30	PASS

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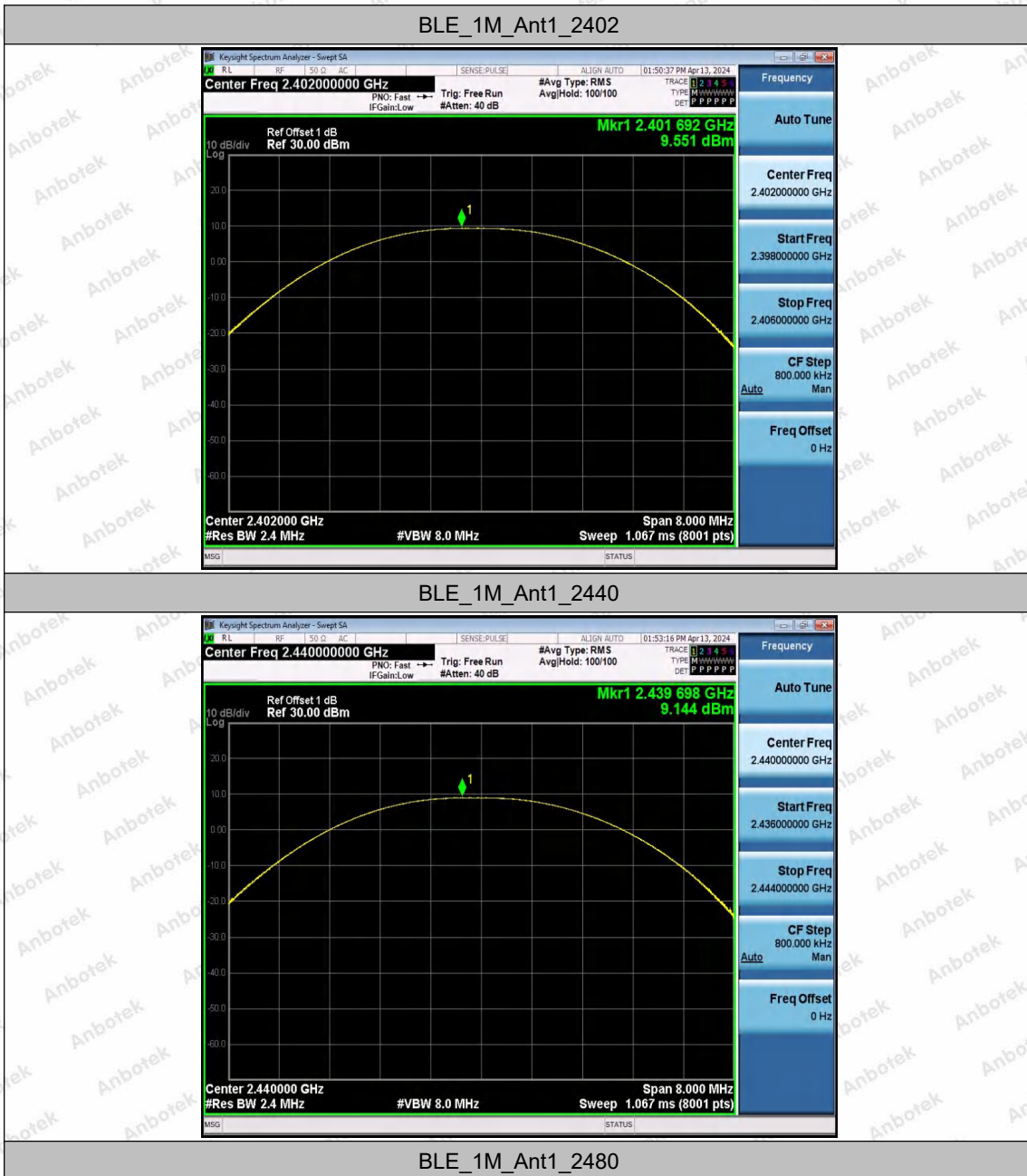
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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## Test Graphs Peak



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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

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### BLE\_2M\_Ant1\_2480



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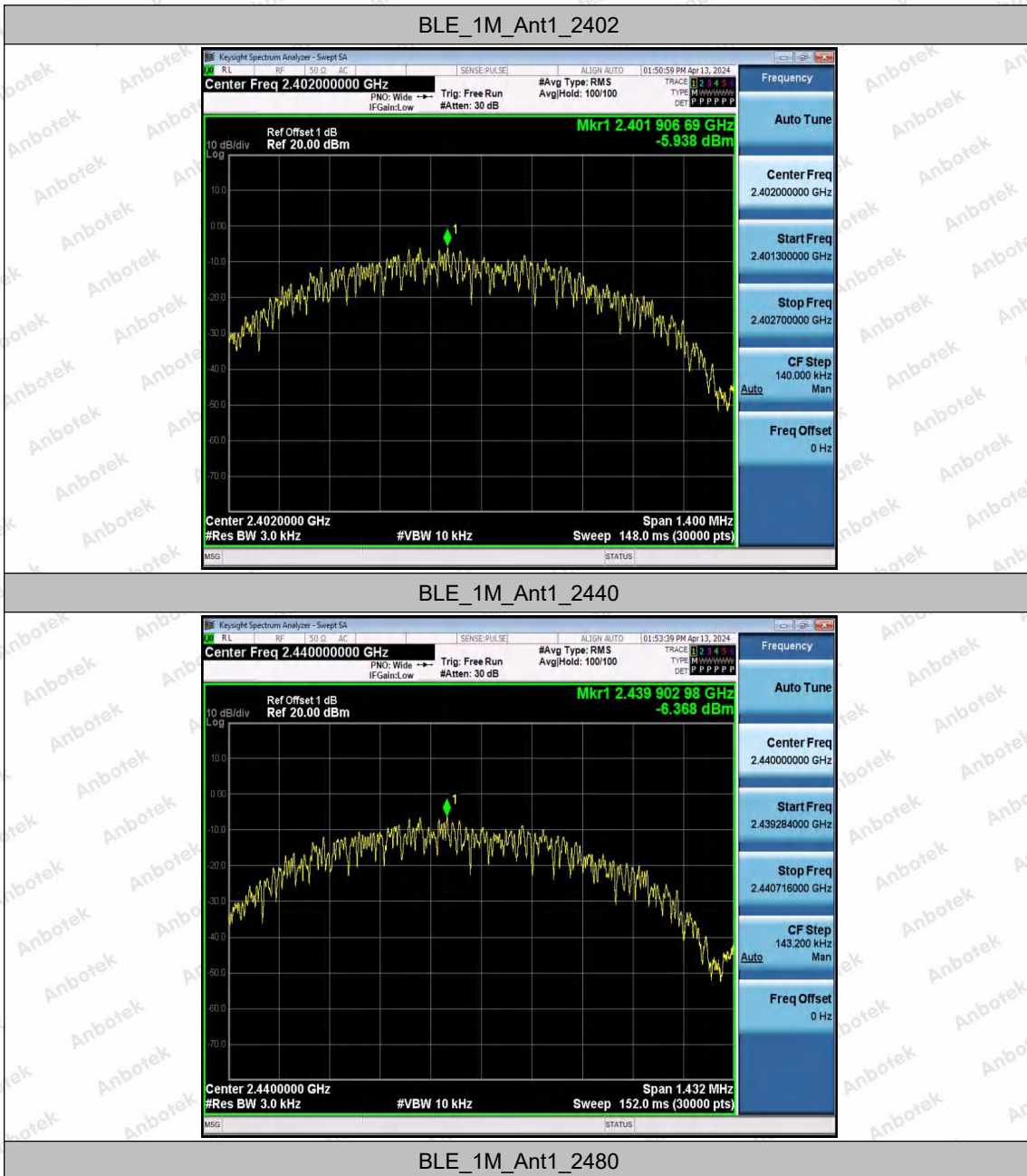
## Appendix D: Maximum Power Spectral Density

### Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-5.94	≤8.00	PASS
		2440	-6.37	≤8.00	PASS
		2480	-6.98	≤8.00	PASS
BLE_2M	Ant1	2402	-7.89	≤8.00	PASS
		2440	-8.33	≤8.00	PASS
		2480	-9.00	≤8.00	PASS



## Test Graphs

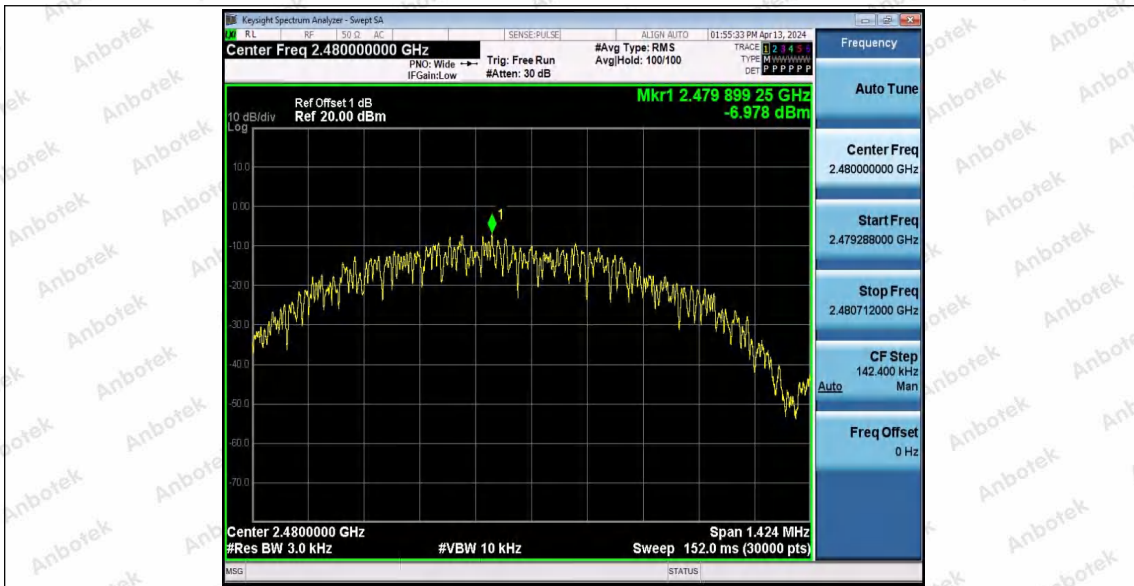


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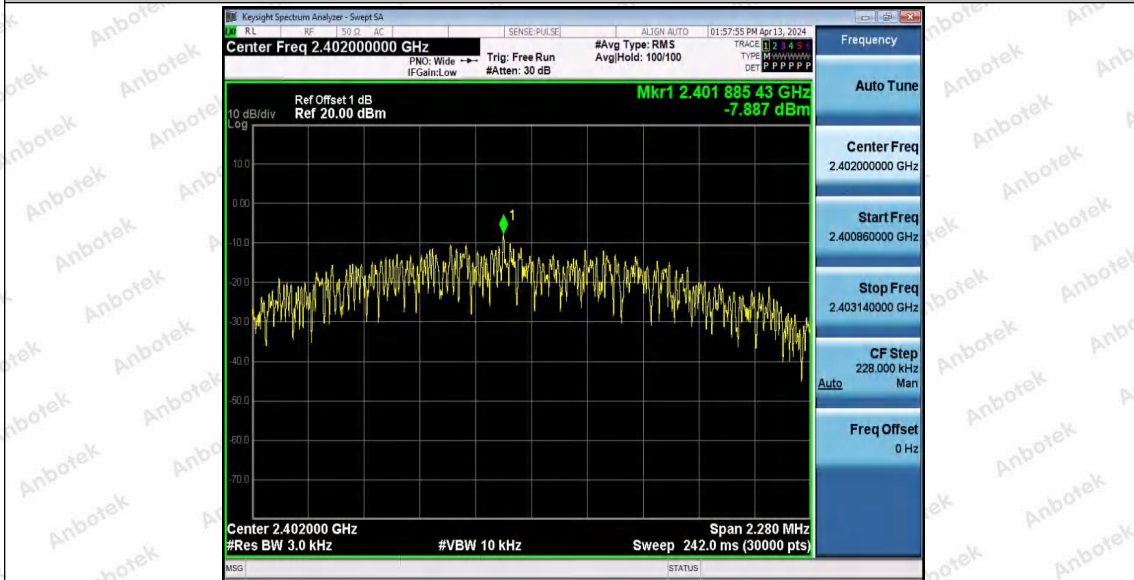
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

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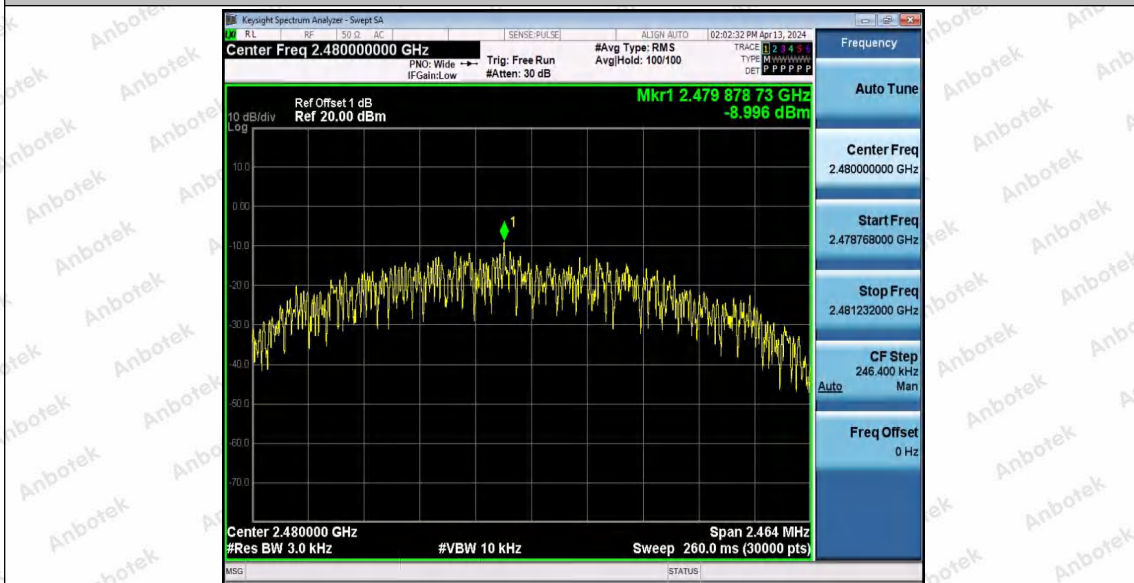


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BLE\_2M\_Ant1\_2480



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## Appendix E: Conducted Band edge

### Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	8.38	-56.83	≤-11.62	PASS
		High	2480	7.23	-56.8	≤-12.77	PASS
BLE_2M	Ant1	Low	2402	8.49	-23.85	≤-11.51	PASS
		High	2480	7.27	-57.02	≤-12.73	PASS

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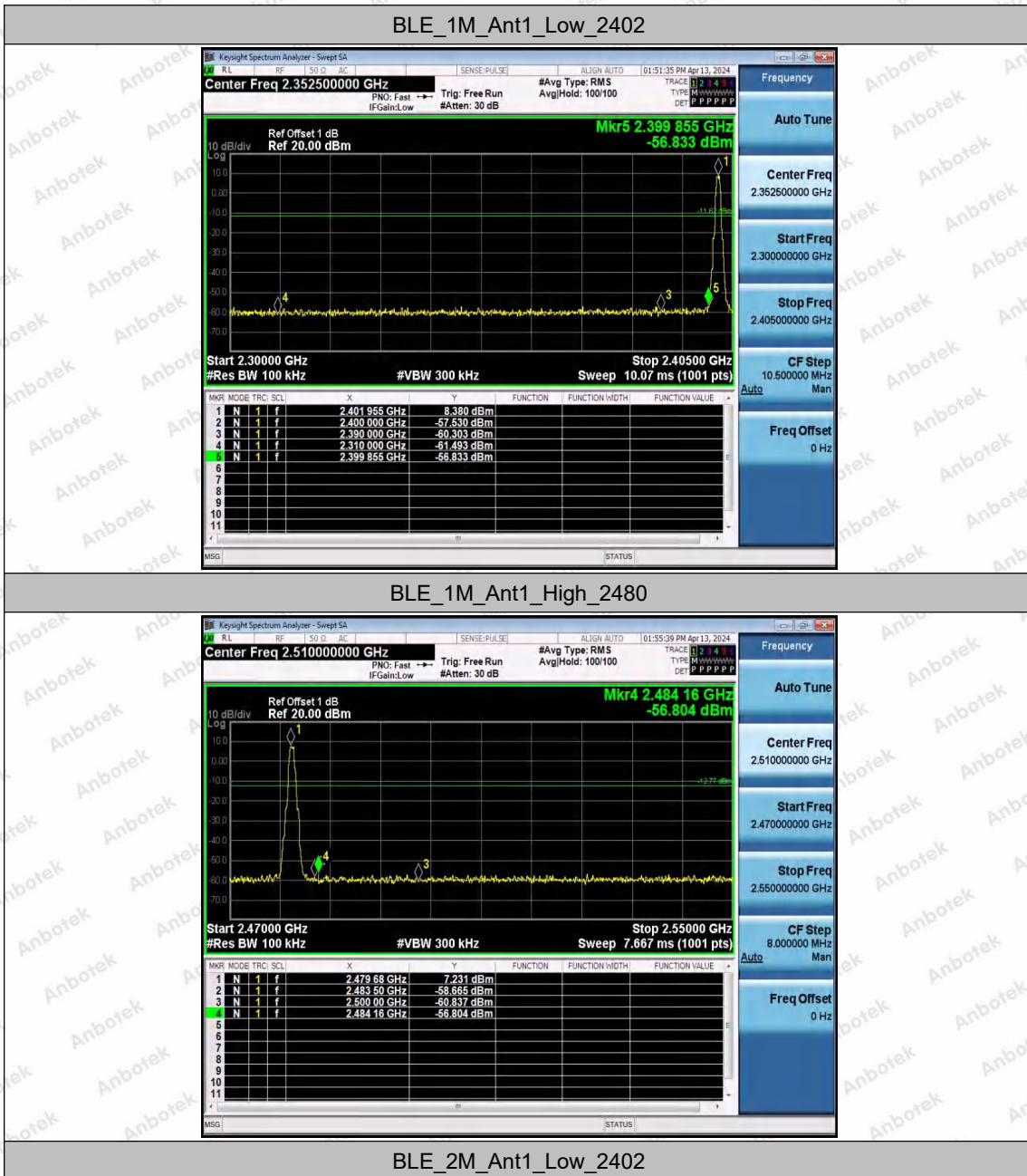
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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## Test Graphs

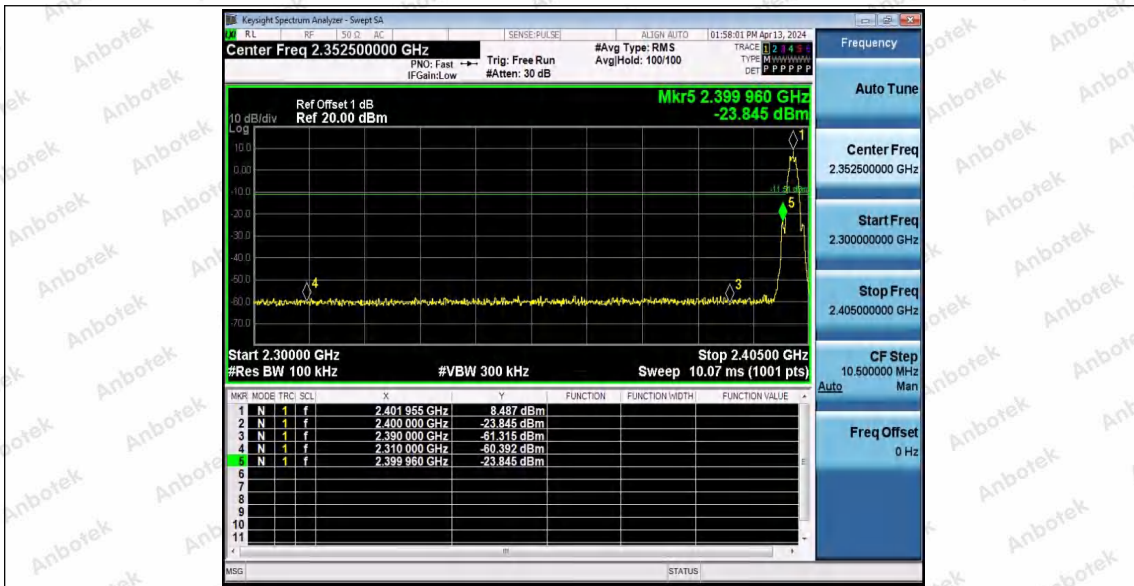


### Shenzhen Anbotek Compliance Laboratory Limited

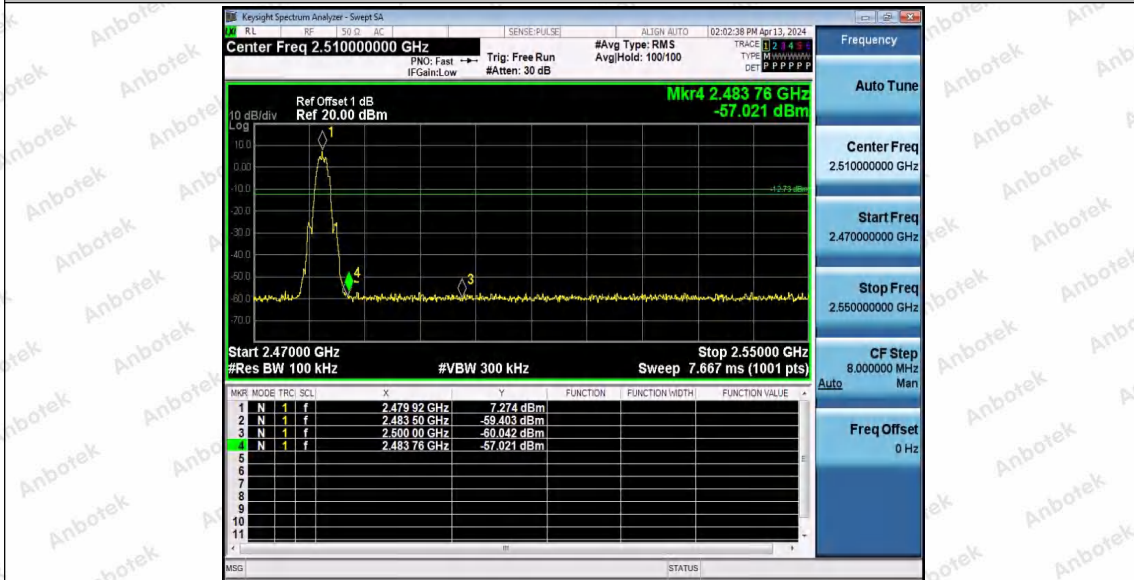
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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BLE\_2M\_Ant1\_High\_2480



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## Appendix F: Conducted Spurious Emission

### Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	8.32	8.32	---	PASS
			30~1000	8.32	-66.88	≤-11.68	PASS
			1000~26500	8.32	-40.7	≤-11.68	PASS
		2440	Reference	8.03	8.03	---	PASS
			30~1000	8.03	-68.72	≤-11.97	PASS
			1000~26500	8.03	-43.21	≤-11.97	PASS
		2480	Reference	7.31	7.31	---	PASS
			30~1000	7.31	-68.21	≤-12.69	PASS
			1000~26500	7.31	-46.71	≤-12.69	PASS
BLE_2M	Ant1	2402	Reference	8.35	8.35	---	PASS
			30~1000	8.35	-68.61	≤-11.65	PASS
			1000~26500	8.35	-42.38	≤-11.65	PASS
		2440	Reference	7.90	7.90	---	PASS
			30~1000	7.90	-68.49	≤-12.1	PASS
			1000~26500	7.90	-44.12	≤-12.1	PASS
		2480	Reference	7.17	7.17	---	PASS
			30~1000	7.17	-67.98	≤-12.83	PASS
			1000~26500	7.17	-44.71	≤-12.83	PASS

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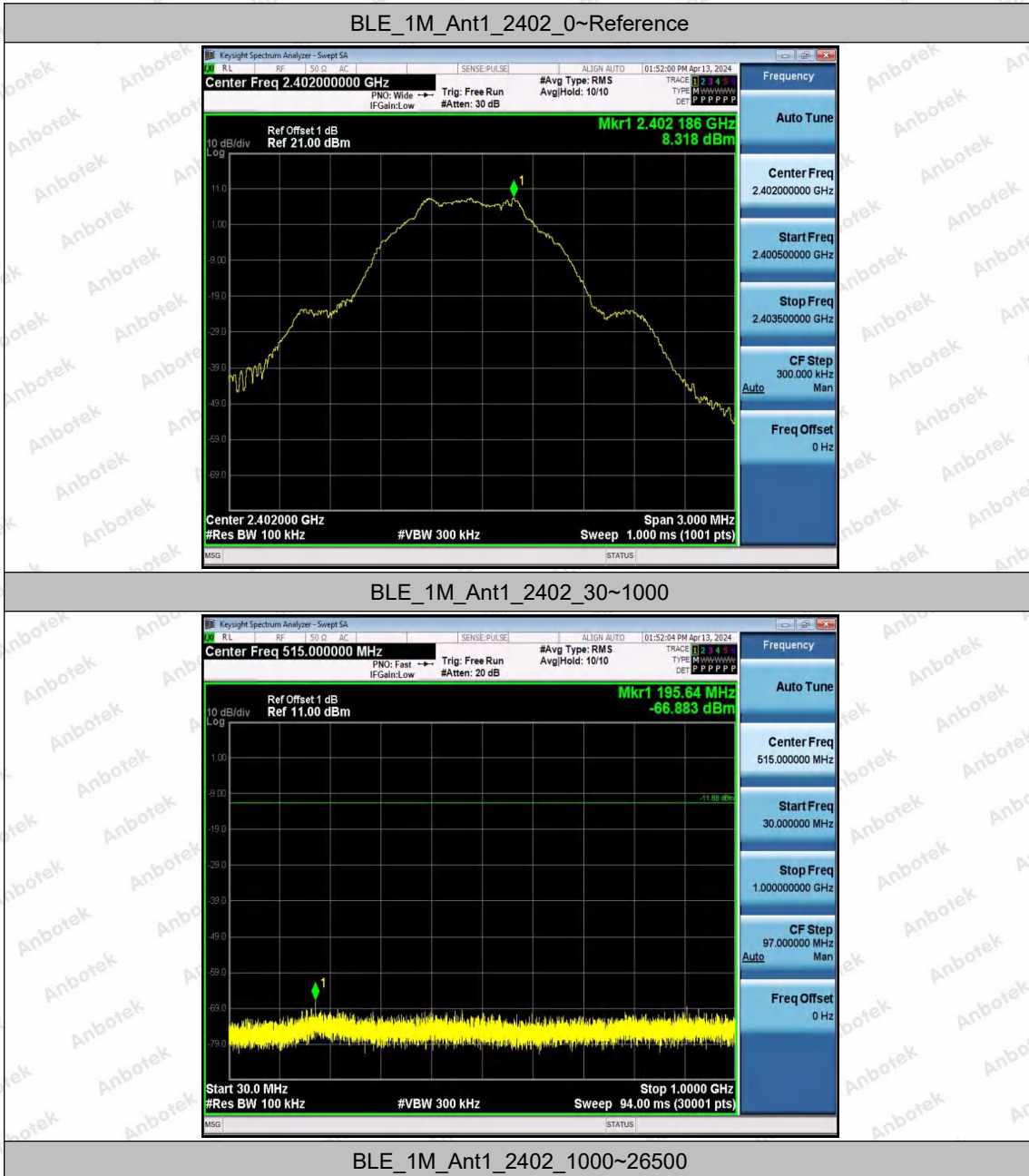
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## Test Graphs

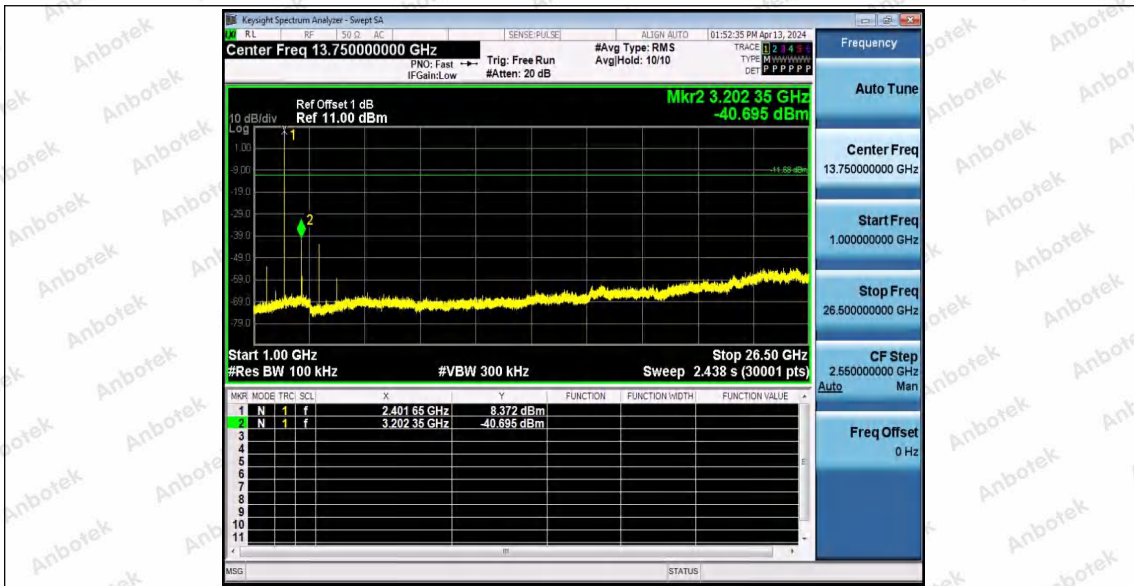


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BLE\_1M\_Ant1\_2440\_0~Reference



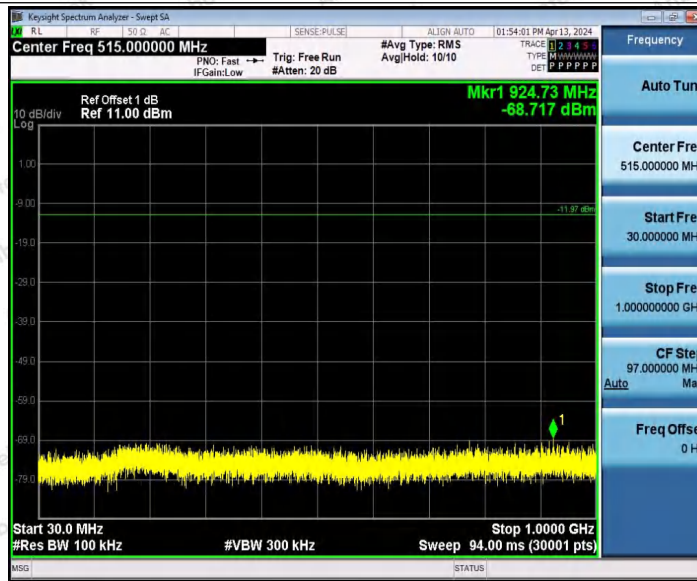
BLE\_1M\_Ant1\_2440\_30~1000

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BLE\_1M\_Ant1\_2440\_1000~26500



BLE\_1M\_Ant1\_2480\_0~Reference

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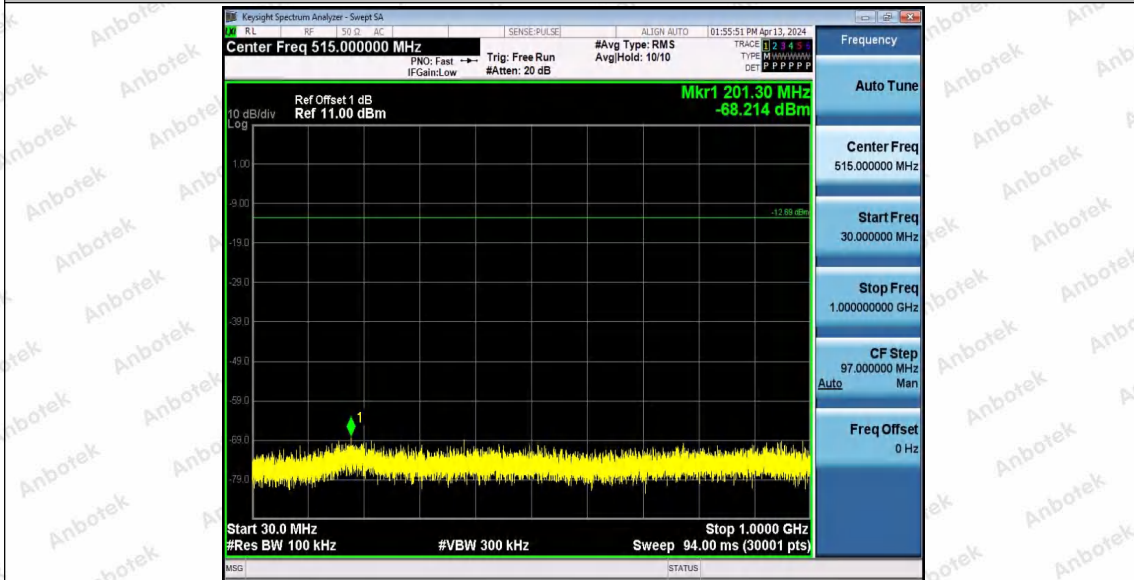
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BLE\_1M\_Ant1\_2480\_30~1000



BLE\_1M\_Ant1\_2480\_1000~26500

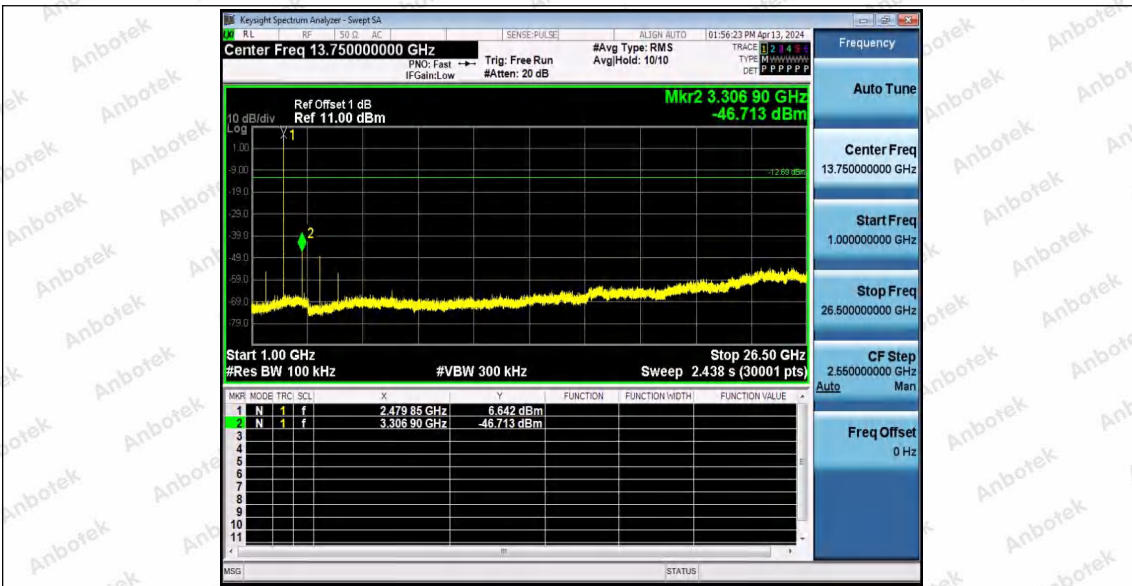
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BLE\_2M\_Ant1\_2402\_0~Reference



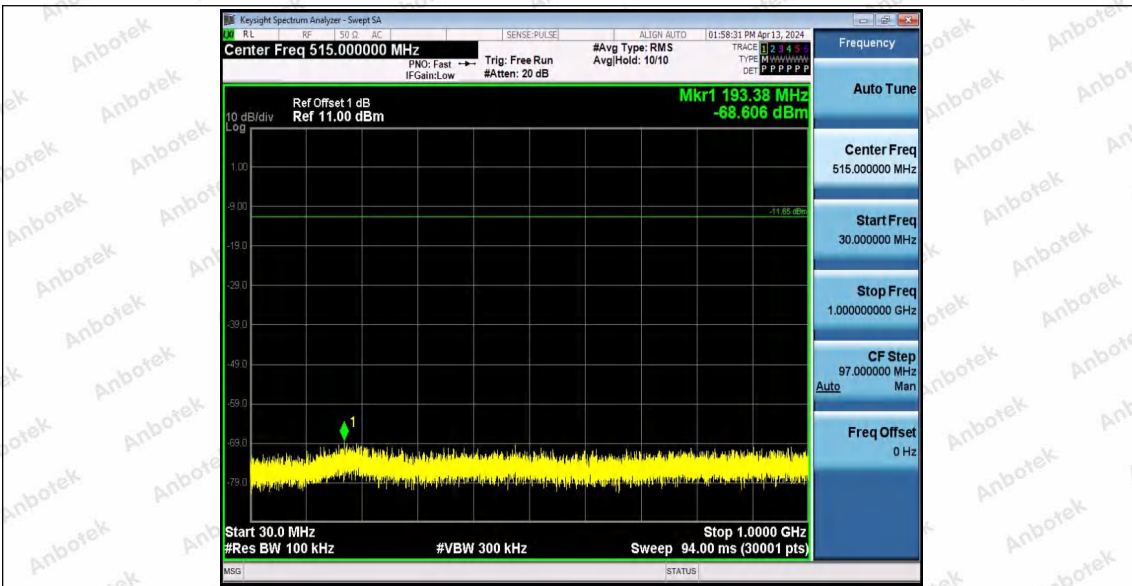
BLE\_2M\_Ant1\_2402\_30~1000

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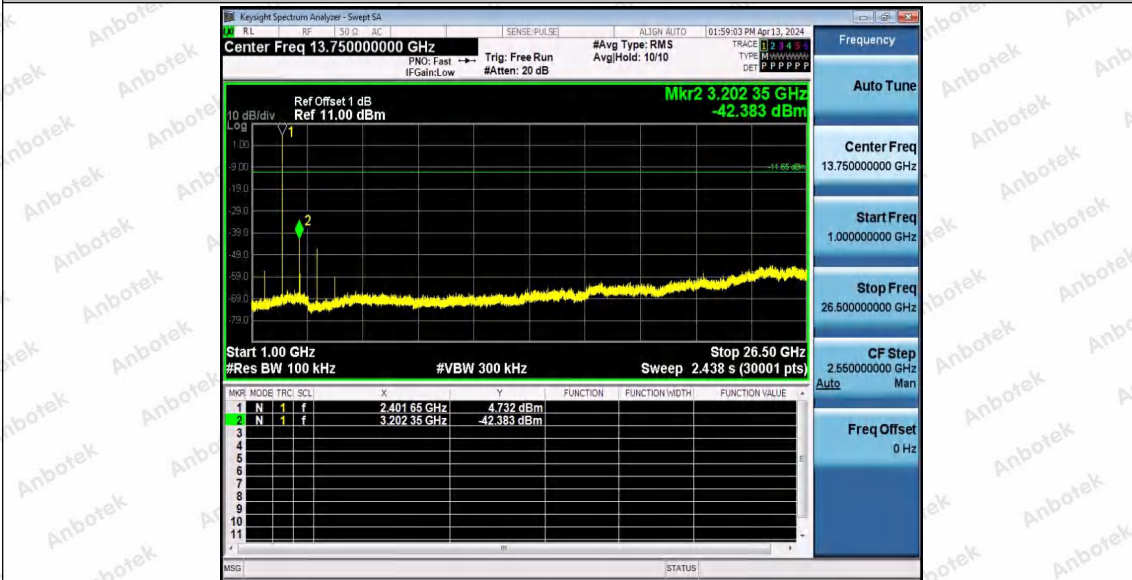
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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BLE\_2M\_Ant1\_2402\_1000~26500



BLE\_2M\_Ant1\_2440\_0~Reference

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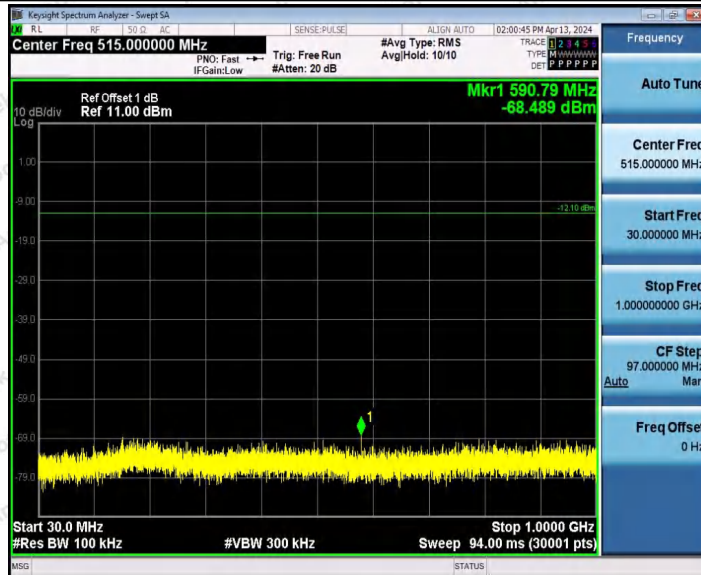
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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BLE\_2M\_Ant1\_2440\_30~1000



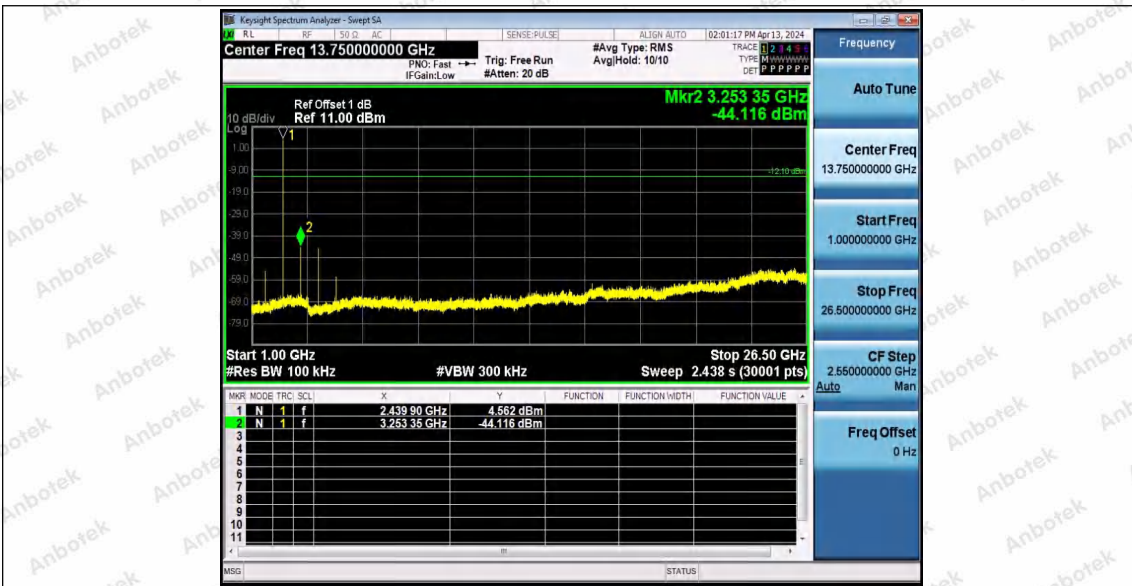
BLE\_2M\_Ant1\_2440\_1000~26500

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BLE\_2M\_Ant1\_2480\_0~Reference



BLE\_2M\_Ant1\_2480\_30~1000

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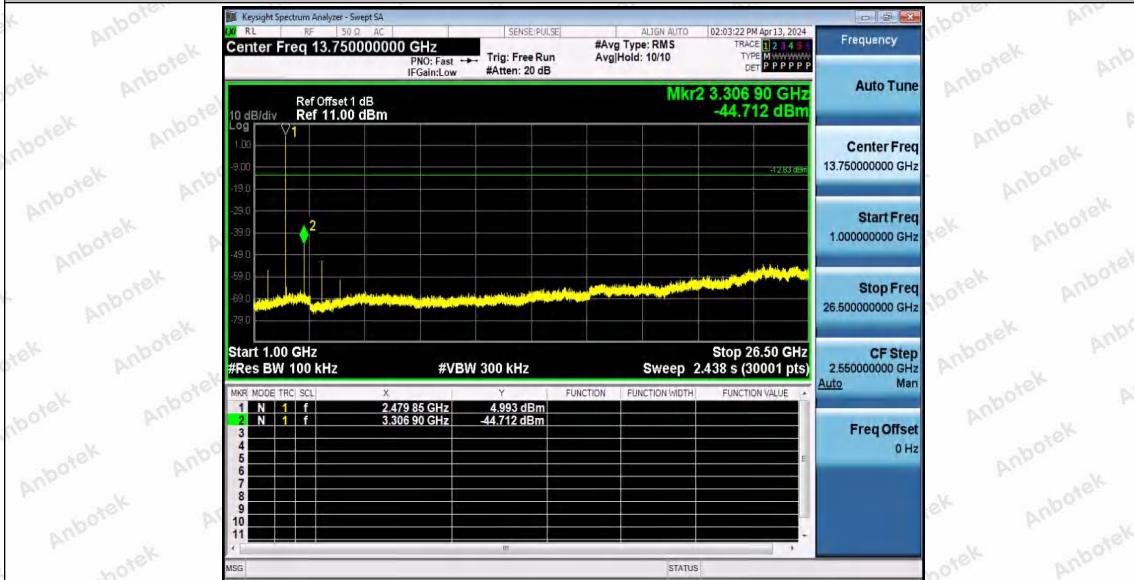
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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BLE\_2M\_Ant1\_2480\_1000~26500



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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	0.37	0.62	59.68	2.24
		2440	0.38	0.62	61.29	2.13
		2480	0.37	0.62	59.68	2.24
BLE_2M	Ant1	2402	0.19	0.62	30.65	5.14
		2440	0.20	0.63	31.75	4.98
		2480	0.19	0.62	30.65	5.14

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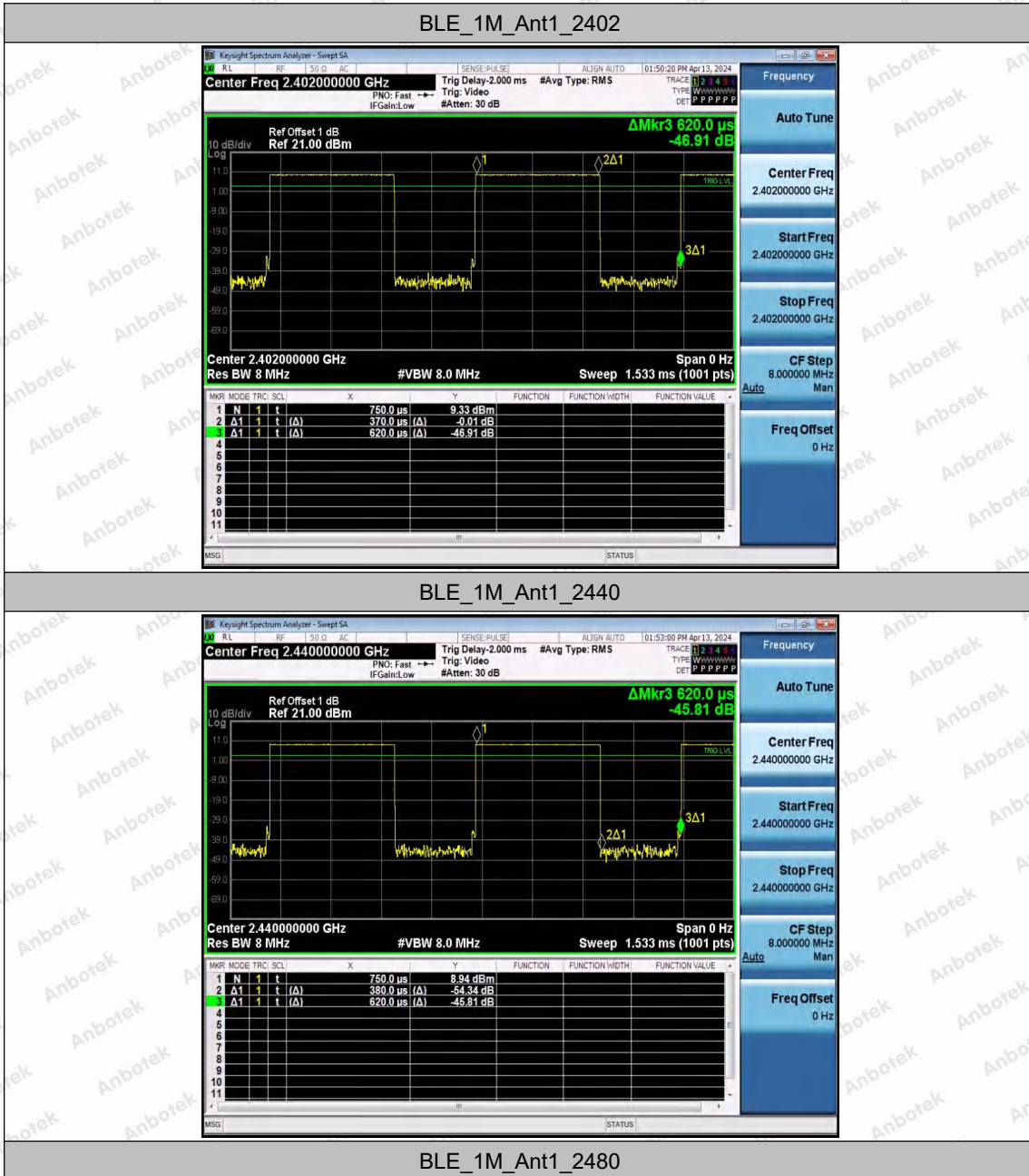
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## Test Graphs

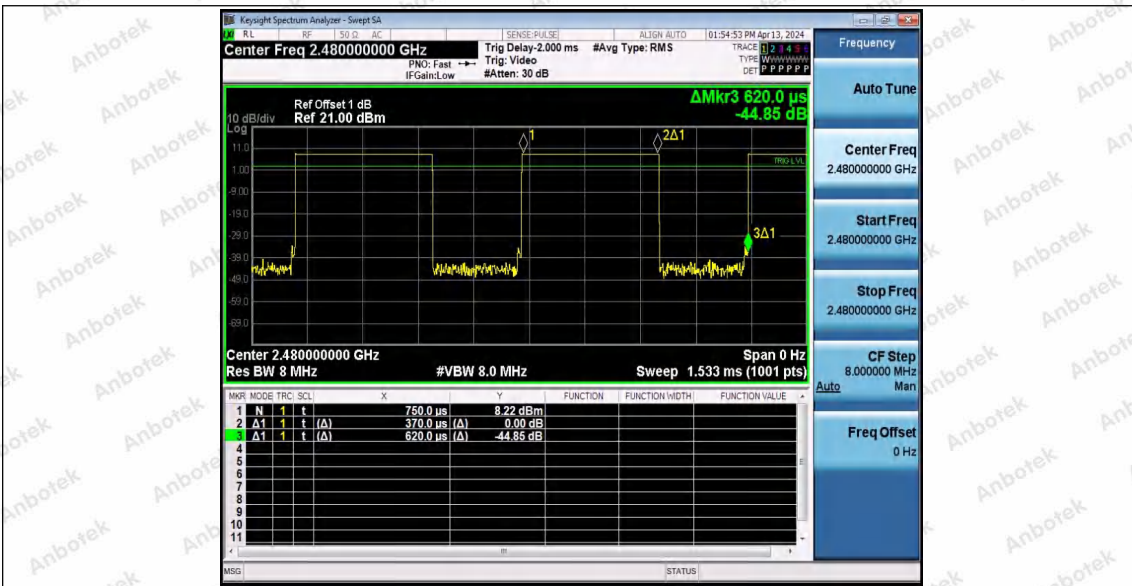


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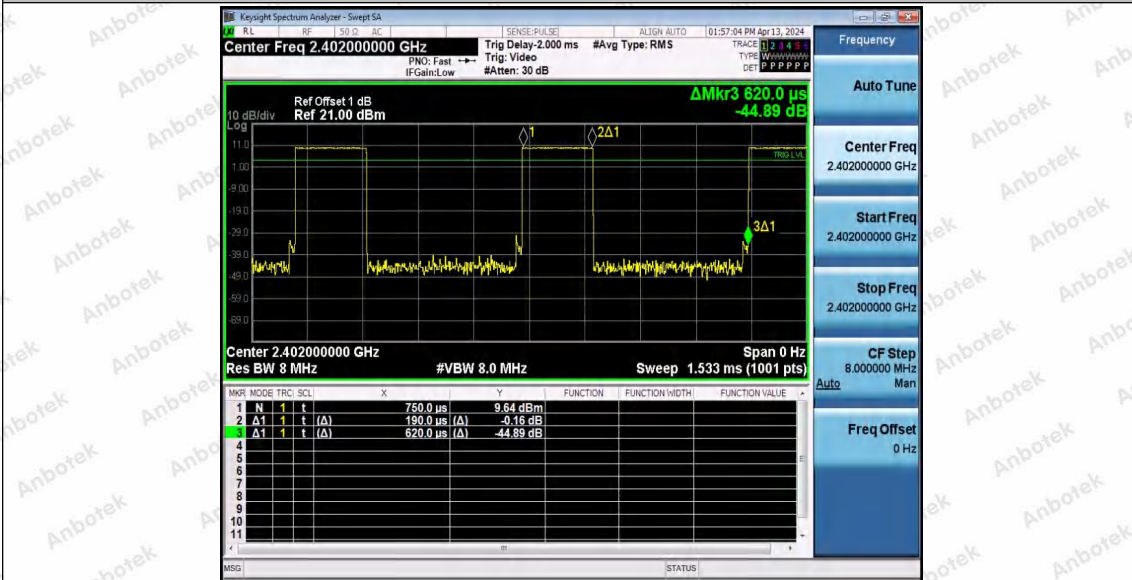
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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BLE\_2M\_Ant1\_2402



BLE\_2M\_Ant1\_2440

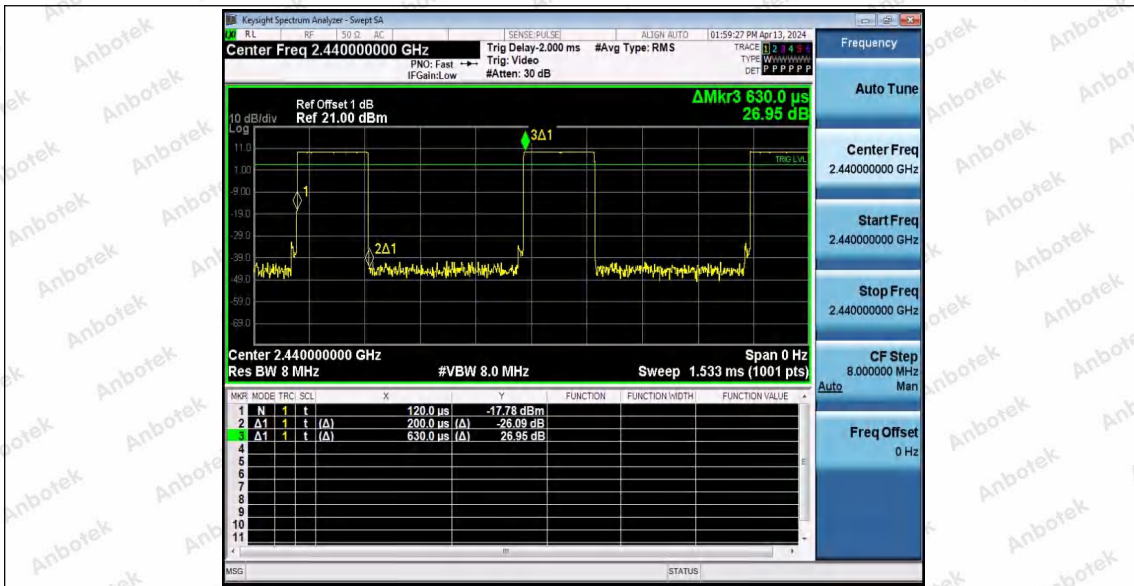
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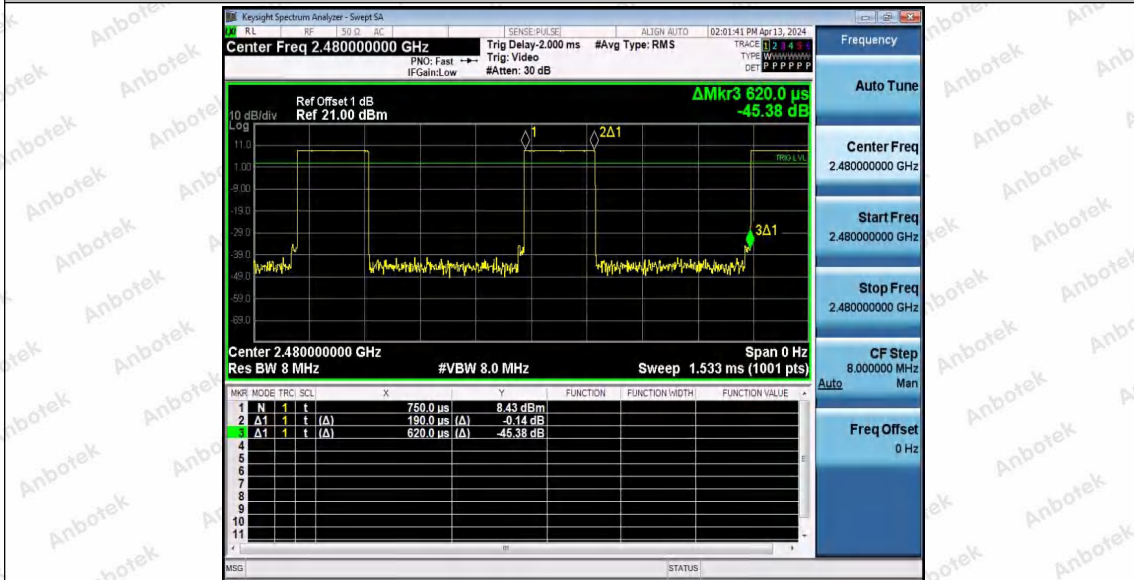
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BLE\_2M\_Ant1\_2480



---END---

