

## Appendix Test Data

Report No.:	18220WC30197902	Test Sample No.:	1-2-2
Start Test Date:	2023.09.27	Finish Test Date:	2023.10.08
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	26.5°C	Relative Humidity:	53.4%
Pressure:	101kPa		

## Appendix A: DTS Bandwidth

## Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.66	2401.62	2402.28	0.5	PASS
		2440	0.64	2439.63	2440.26	0.5	PASS
		2480	0.64	2479.62	2480.27	0.5	PASS
BLE_2M	Ant1	2402	1.09	2401.42	2402.51	0.5	PASS
		2440	1.09	2439.40	2440.49	0.5	PASS
		2480	1.09	2479.40	2480.50	0.5	PASS

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## Test Graphs

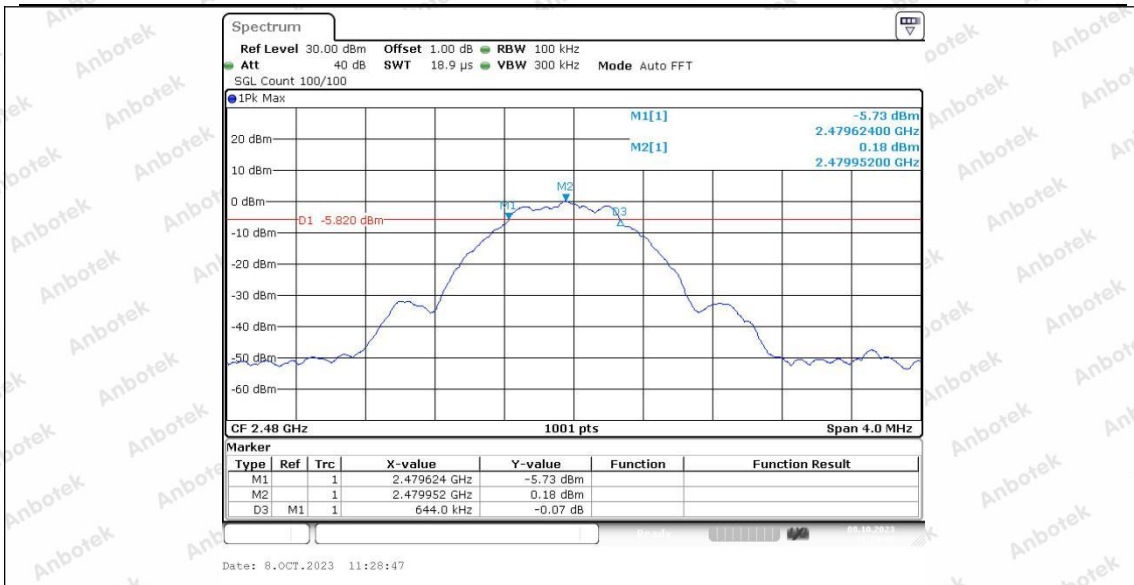


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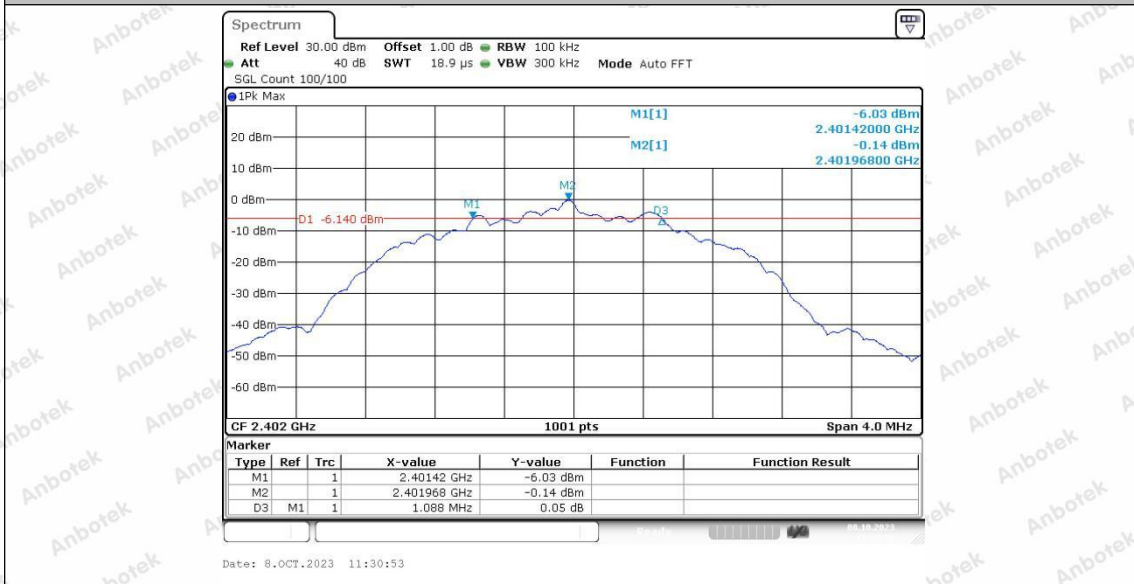
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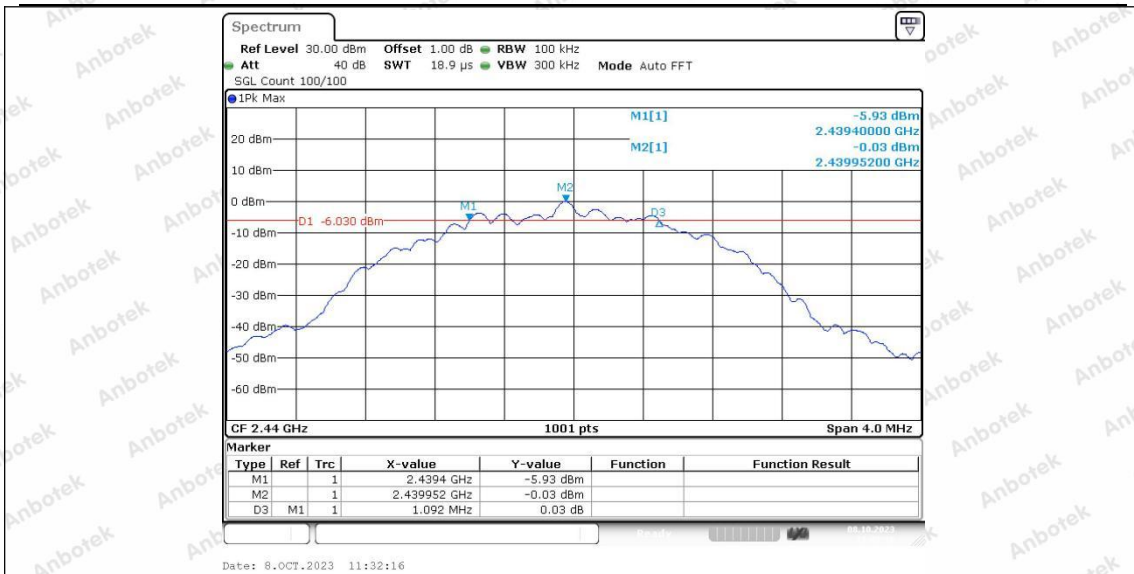


BLE\_2M\_Ant1\_2402

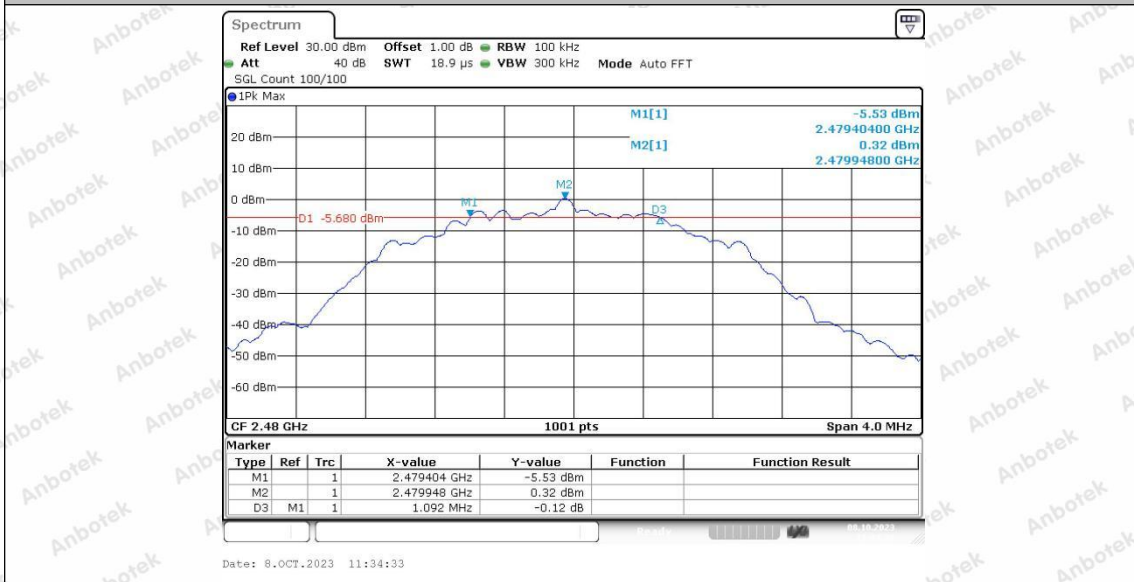


BLE\_2M\_Ant1\_2440





## 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	1.035	2401.4326	2402.4675
		2440	1.023	2439.4406	2440.4635
		2480	1.039	2479.4286	2480.4675
BLE_2M	Ant1	2402	2.038	2400.9411	2402.9790
		2440	2.022	2438.9411	2440.9630
		2480	2.054	2478.9251	2480.9790

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## Test Graphs

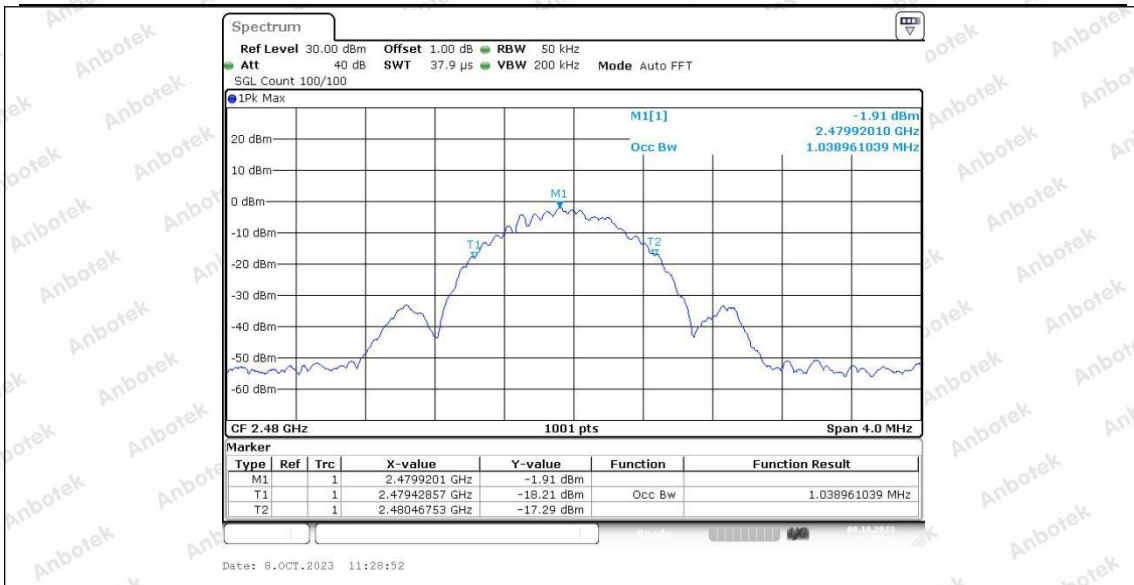


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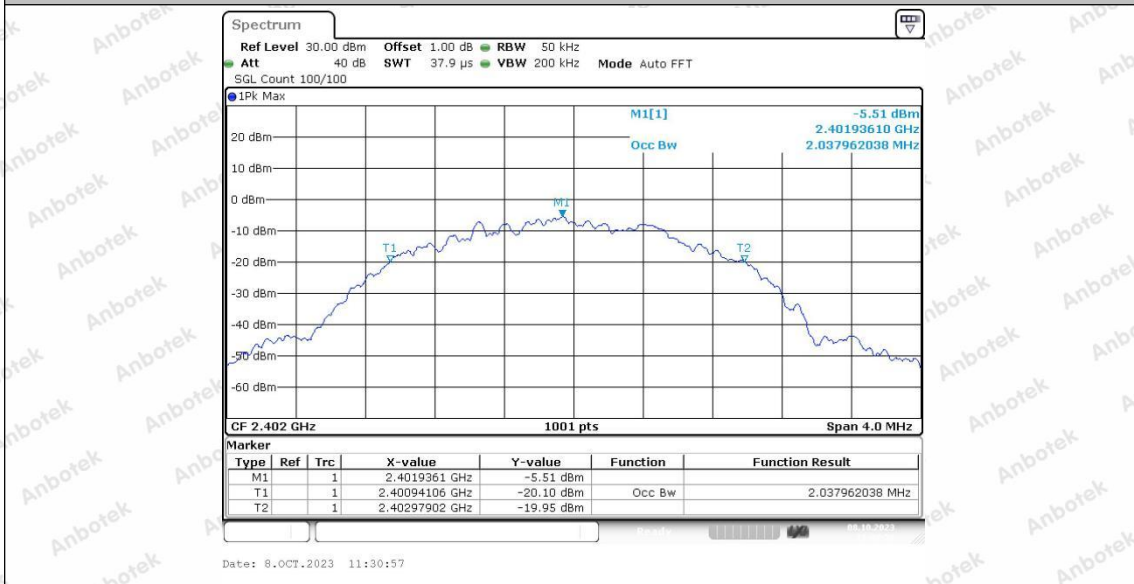
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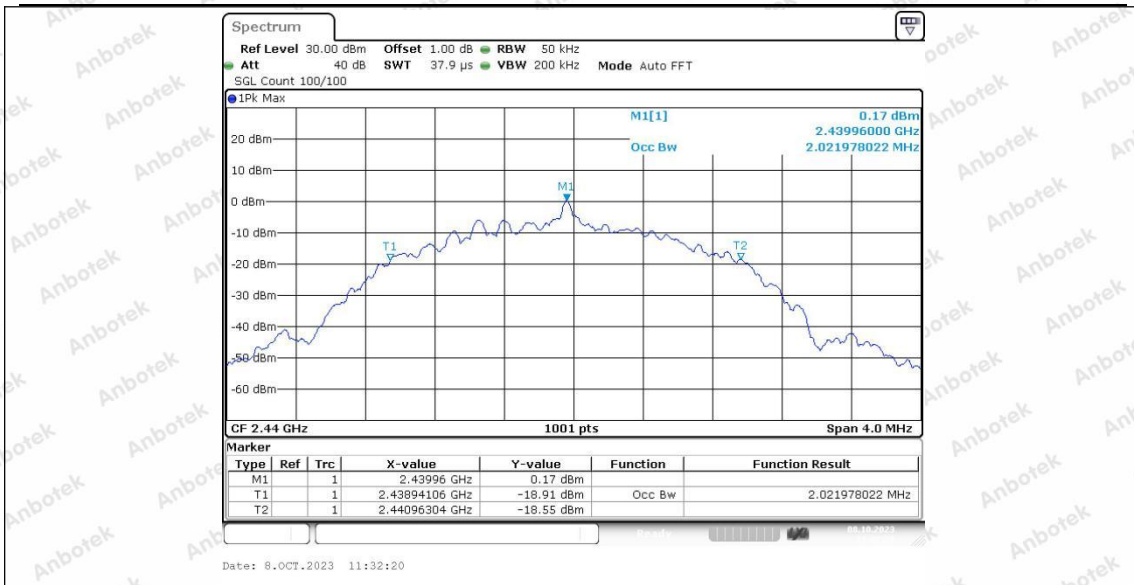


BLE\_2M\_Ant1\_2402

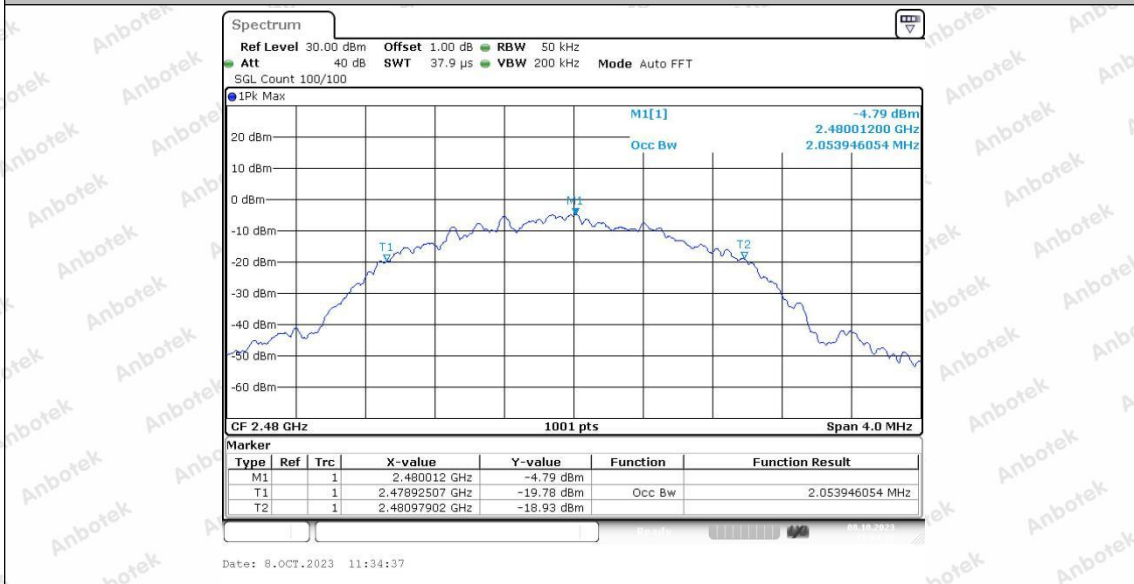


BLE\_2M\_Ant1\_2440





## 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	0.54	≤30	PASS
		2440	0.88	≤30	PASS
		2480	1.18	≤30	PASS
BLE_2M	Ant1	2402	0.71	≤30	PASS
		2440	1.29	≤30	PASS
		2480	1.35	≤30	PASS

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## Test Graphs Peak

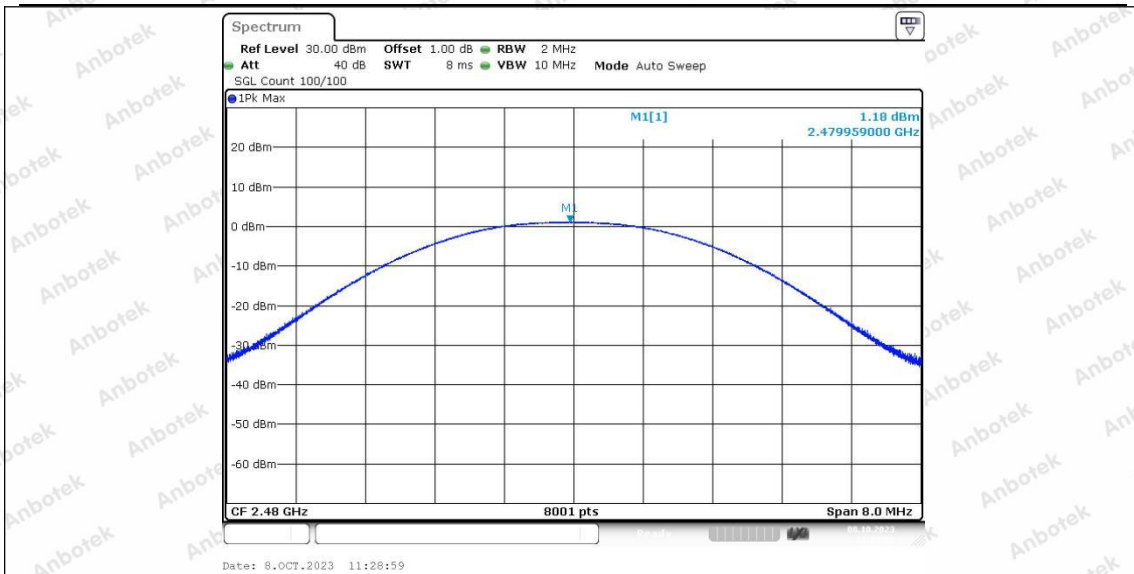


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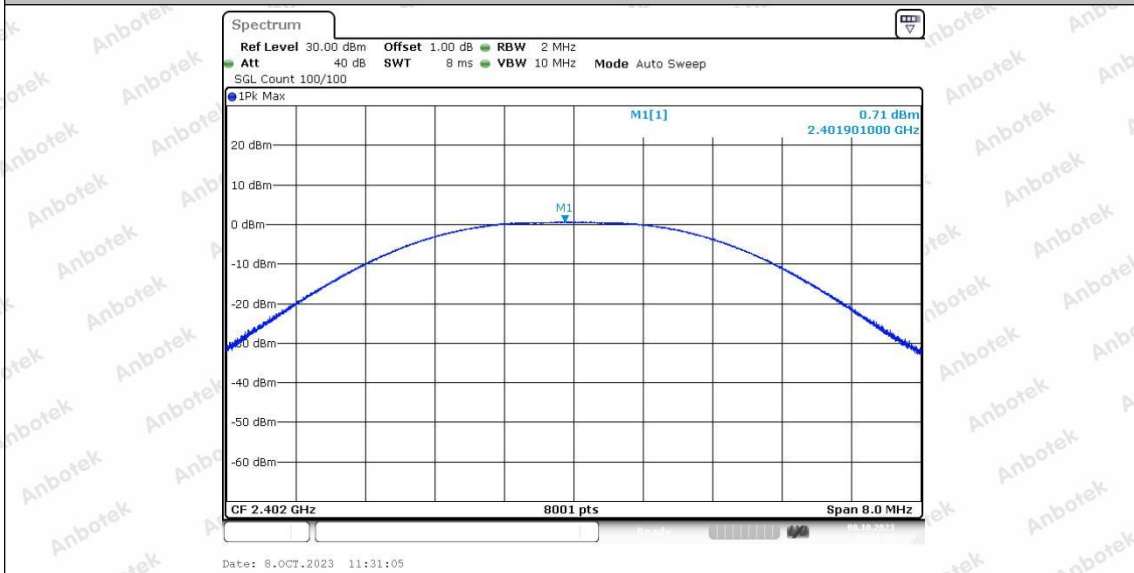
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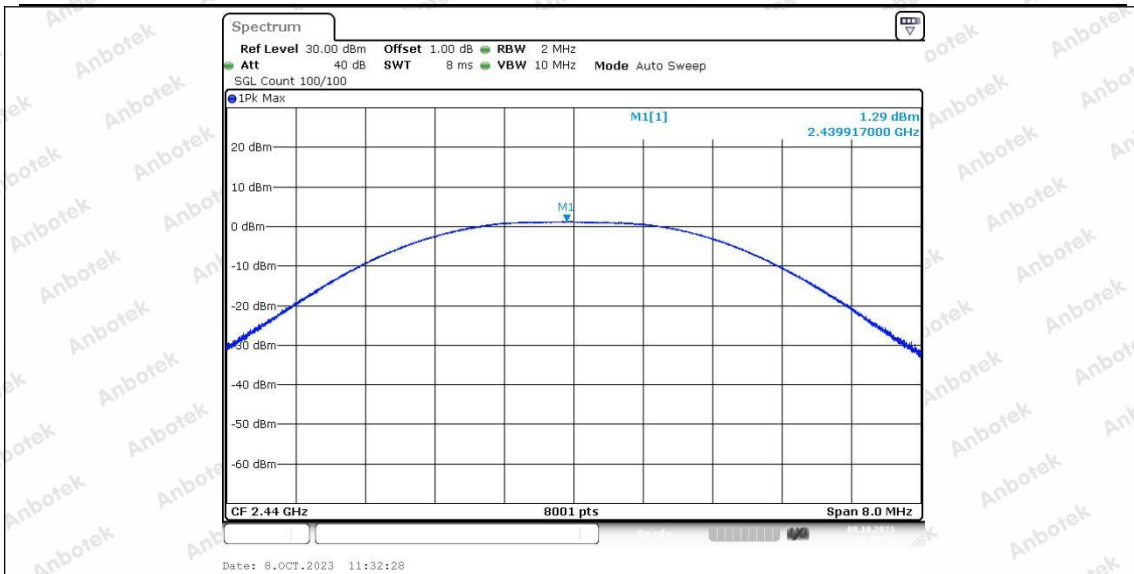


BLE\_2M\_Ant1\_2402

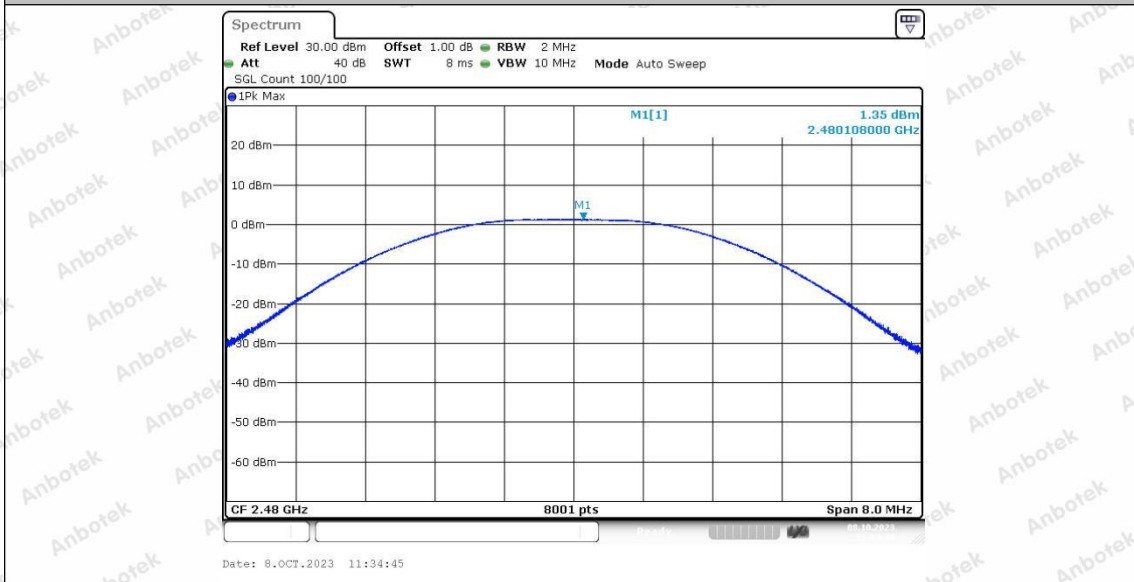


BLE\_2M\_Ant1\_2440





## 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	-15.52	≤8.00	PASS
		2440	-15.27	≤8.00	PASS
		2480	-15.00	≤8.00	PASS
BLE_2M	Ant1	2402	-17.03	≤8.00	PASS
		2440	-16.46	≤8.00	PASS
		2480	-16.19	≤8.00	PASS



## Test Graphs

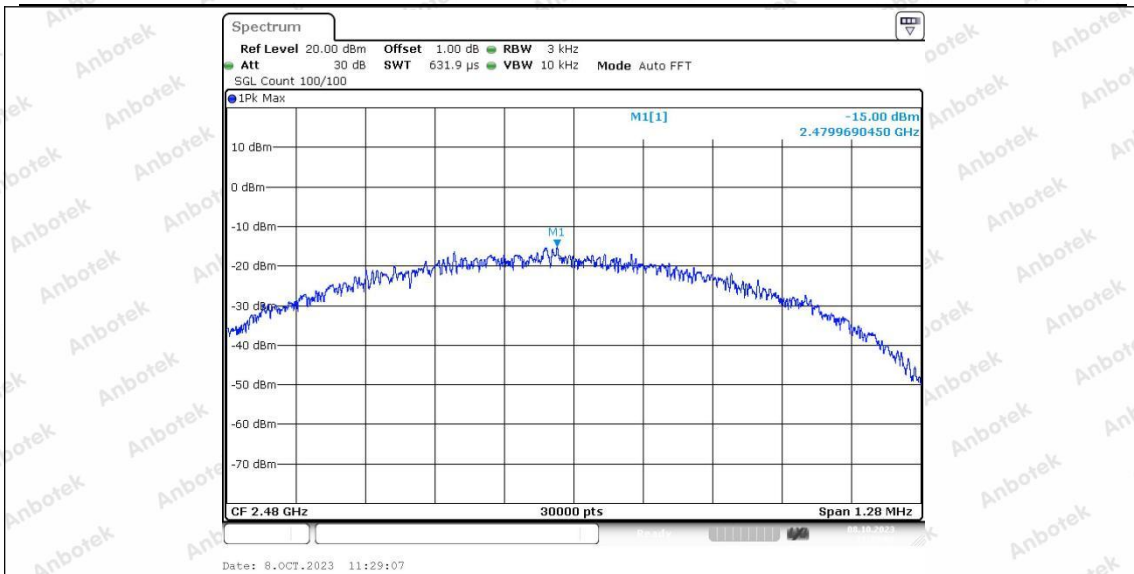


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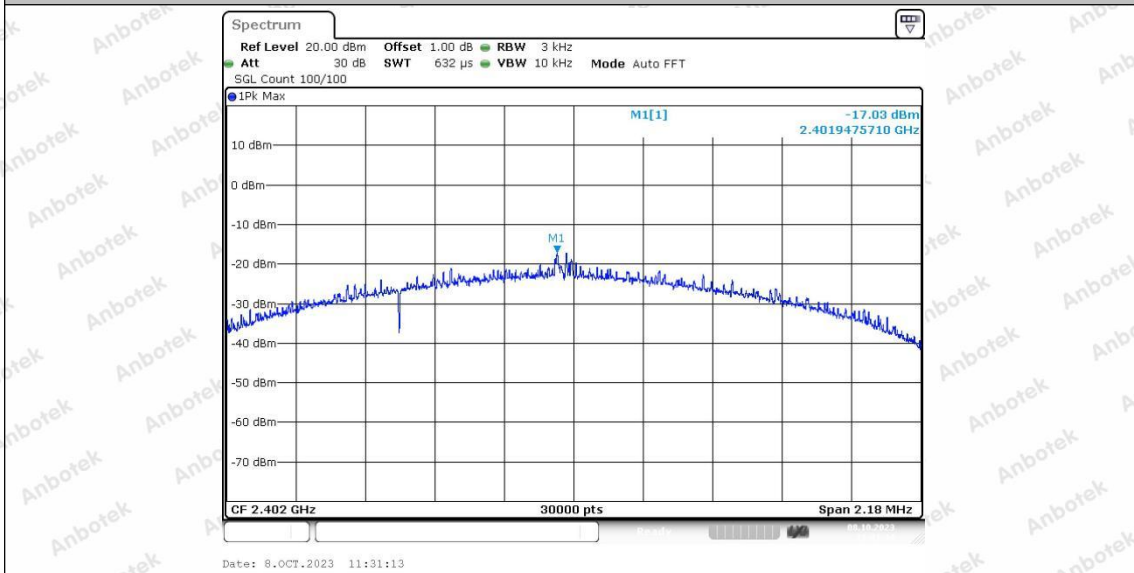
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BLE\_2M\_Ant1\_2402



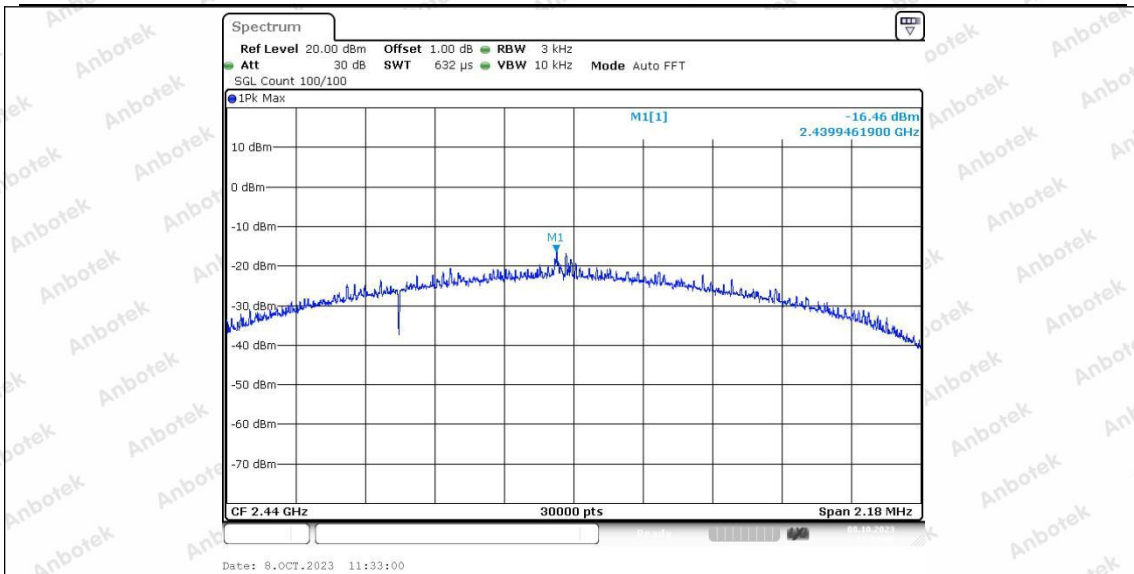
BLE\_2M\_Ant1\_2440

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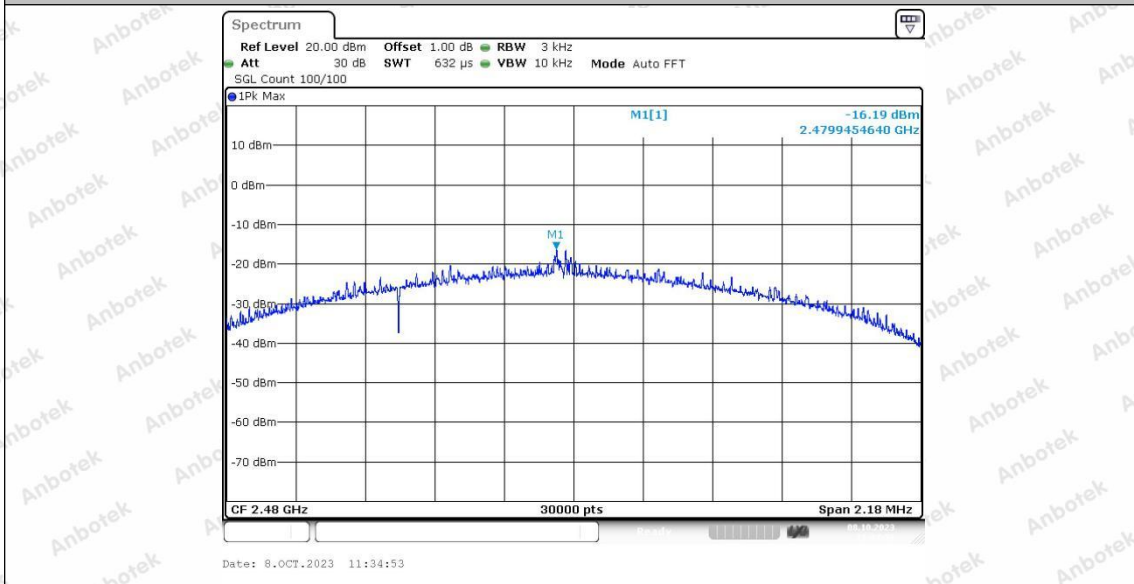
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### BLE\_2M\_Ant1\_2480



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## Appendix E: Band edge measurements

### Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.20	-54.39	≤-19.8	PASS
		High	2480	0.57	-56.76	≤-19.43	PASS
BLE_2M	Ant1	Low	2402	0.32	-49.28	≤-19.68	PASS
		High	2480	0.92	-56.63	≤-19.08	PASS



## Test Graphs

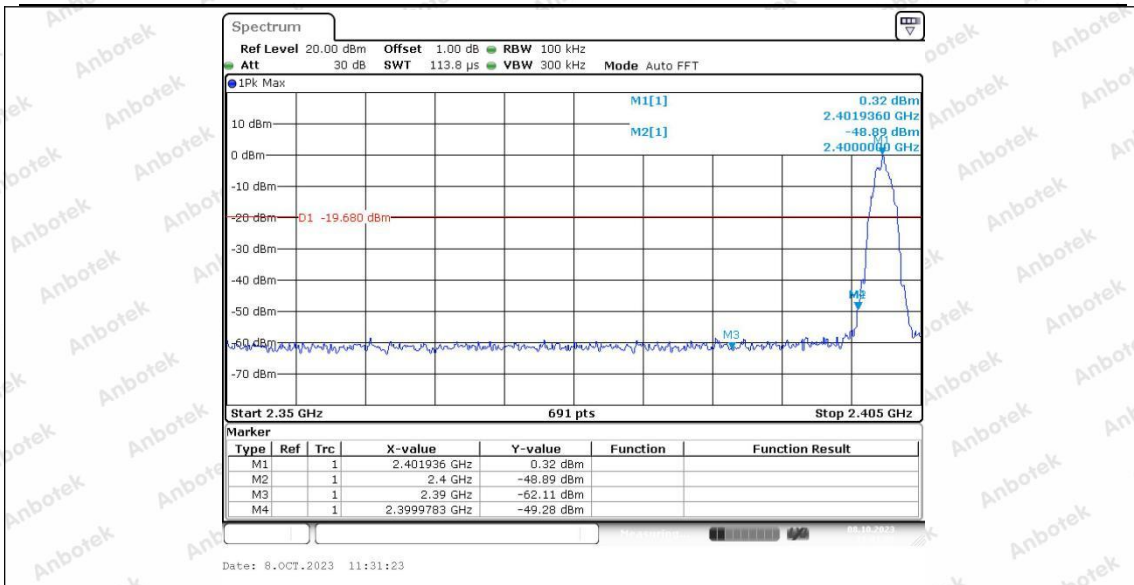


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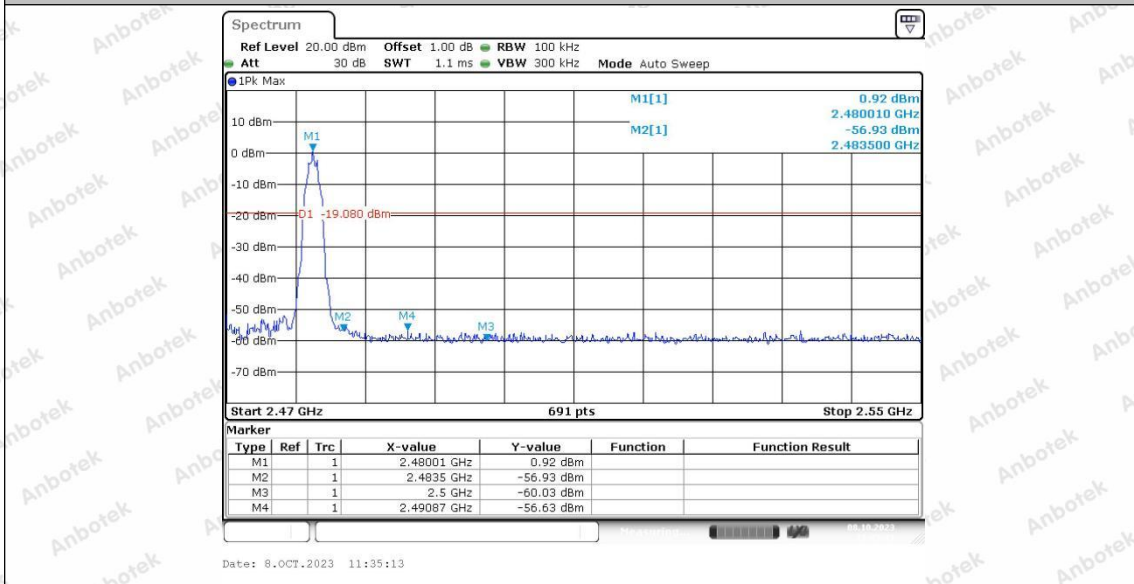
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## BLE\_2M\_Ant1\_High\_2480



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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	-1.70	-1.70	---	PASS
			30~1000	-1.70	-68.24	≤-21.7	PASS
			1000~26500	-1.70	-51.65	≤-21.7	PASS
		2440	Reference	-1.10	-1.10	---	PASS
			30~1000	-1.10	-68.09	≤-21.1	PASS
			1000~26500	-1.10	-58.34	≤-21.1	PASS
		2480	Reference	-1.61	-1.61	---	PASS
			30~1000	-1.61	-68.92	≤-21.61	PASS
			1000~26500	-1.61	-59.26	≤-21.61	PASS
BLE_2M	Ant1	2402	Reference	-3.72	-3.72	---	PASS
			30~1000	-3.72	-67.51	≤-23.72	PASS
			1000~26500	-3.72	-60.64	≤-23.72	PASS
		2440	Reference	-3.45	-3.45	---	PASS
			30~1000	-3.45	-69.01	≤-23.45	PASS
			1000~26500	-3.45	-53.49	≤-23.45	PASS
		2480	Reference	-4.06	-4.06	---	PASS
			30~1000	-4.06	-69.01	≤-24.06	PASS
			1000~26500	-4.06	-58.19	≤-24.06	PASS



## Test Graphs

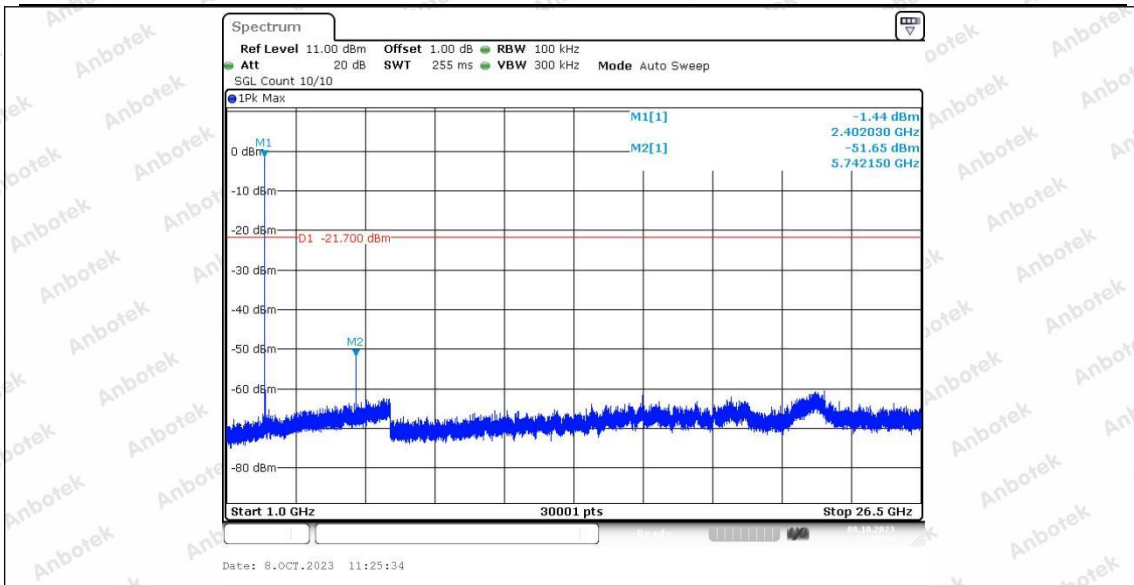


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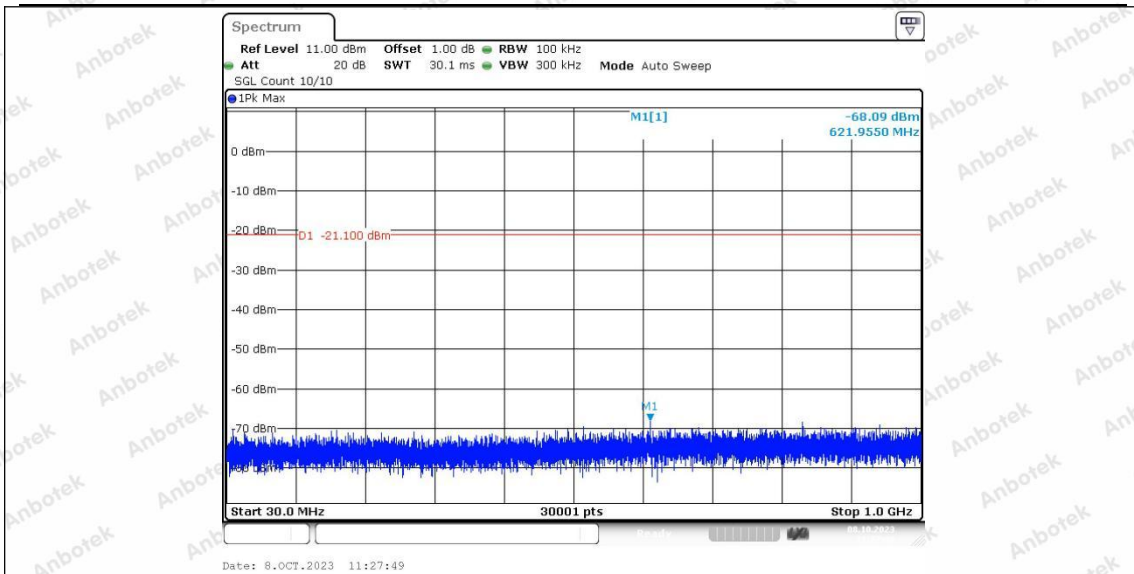


BLE\_1M\_Ant1\_2440\_0~Reference

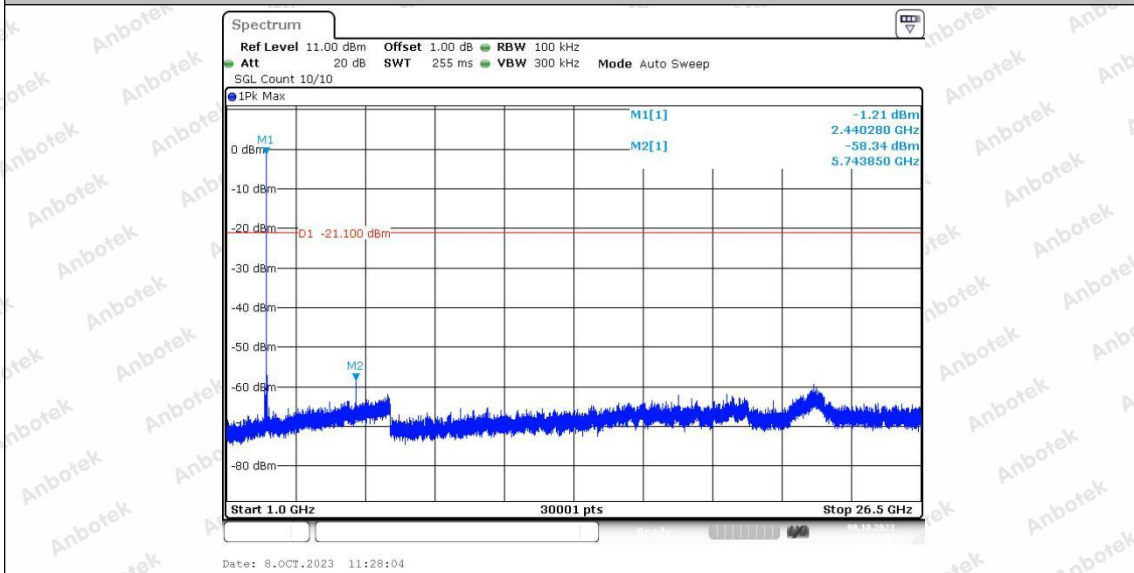


BLE\_1M\_Ant1\_2440\_30~1000





BLE\_1M\_Ant1\_2440\_1000~26500



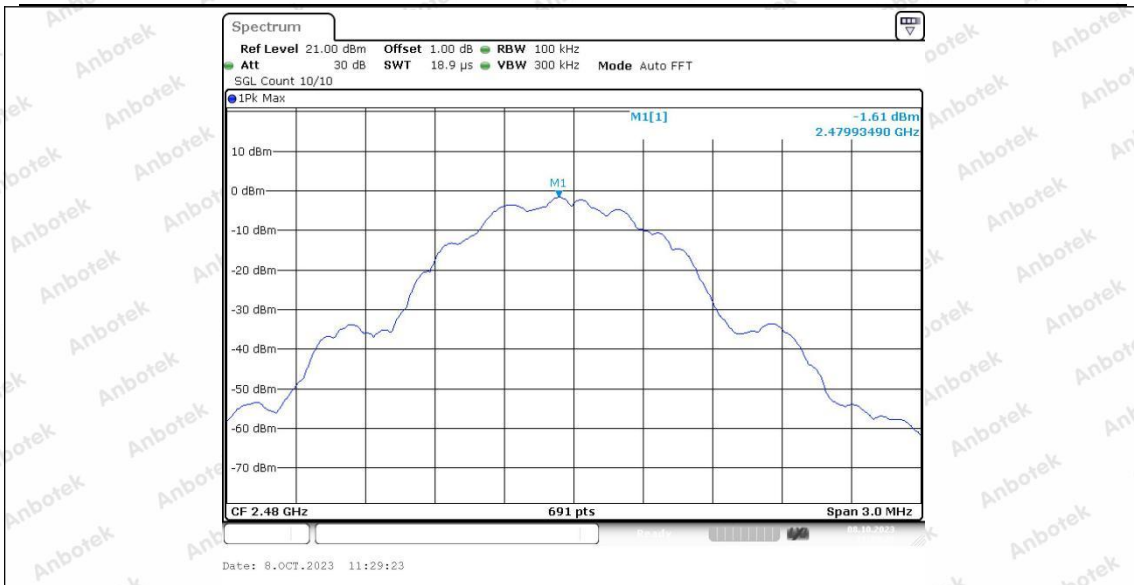
BLE\_1M\_Ant1\_2480\_0~Reference

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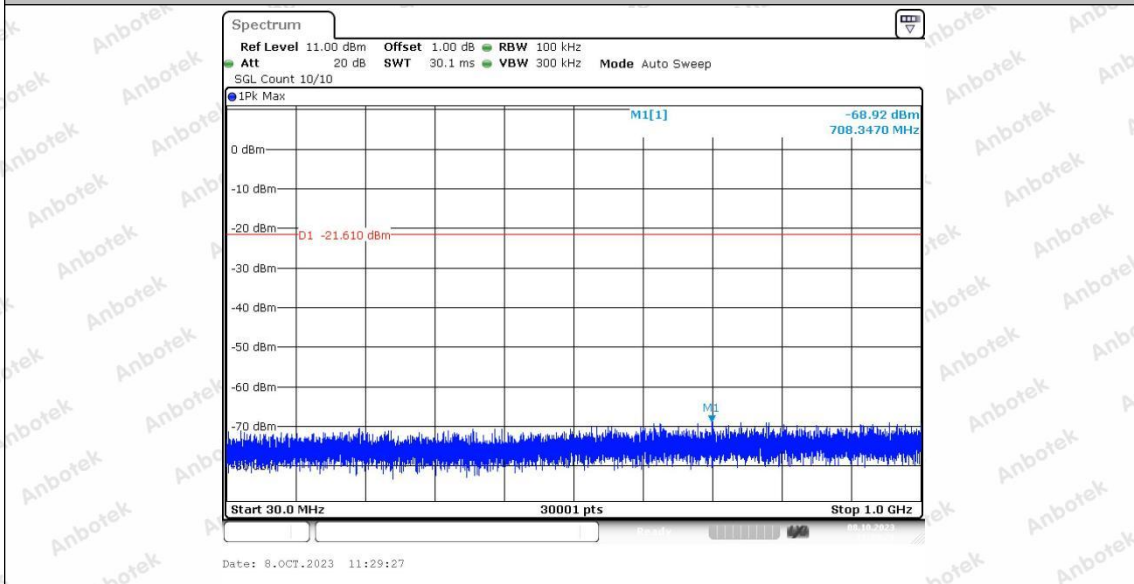
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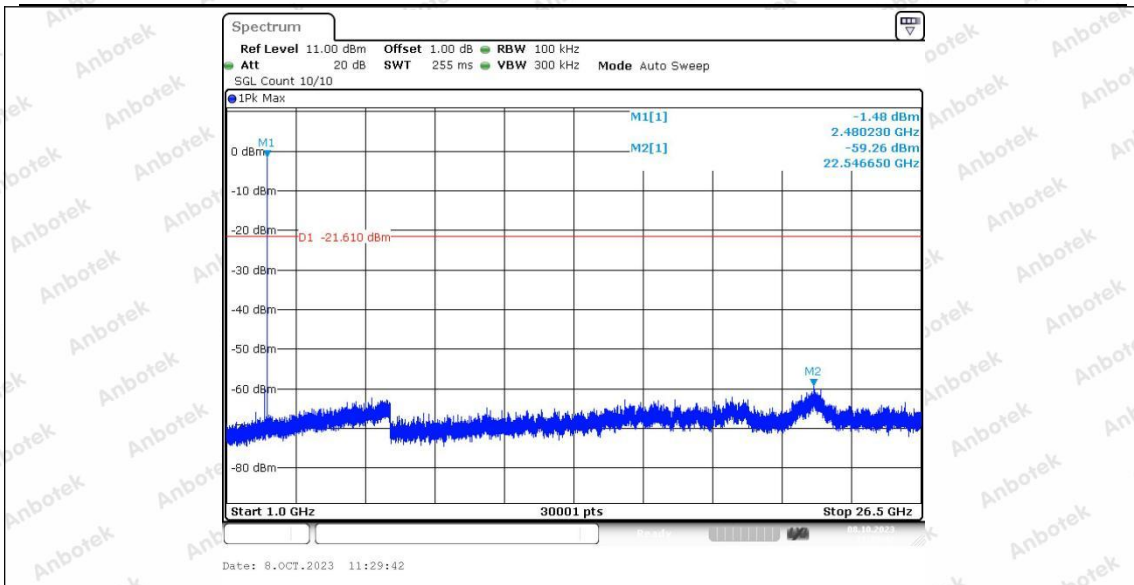
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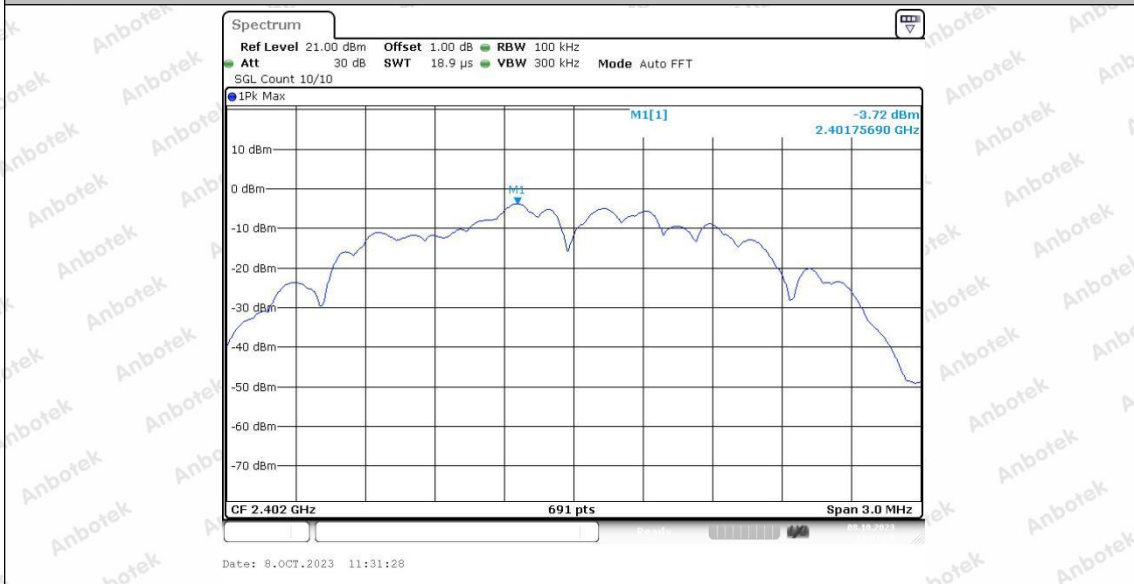
BLE\_1M\_Ant1\_2480\_1000~26500





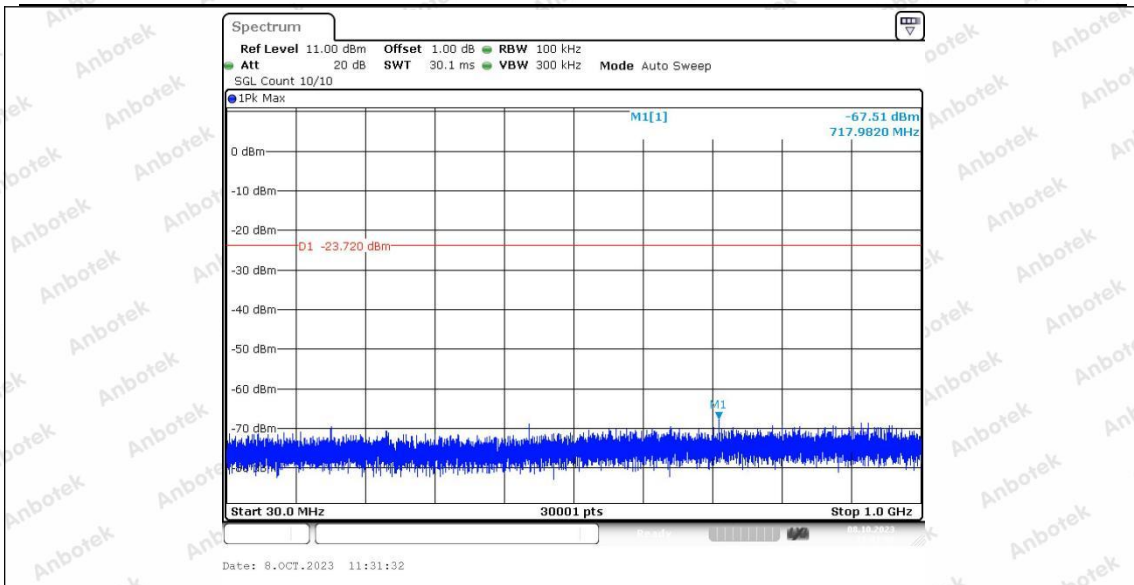


BLE\_2M\_Ant1\_2402\_0~Reference

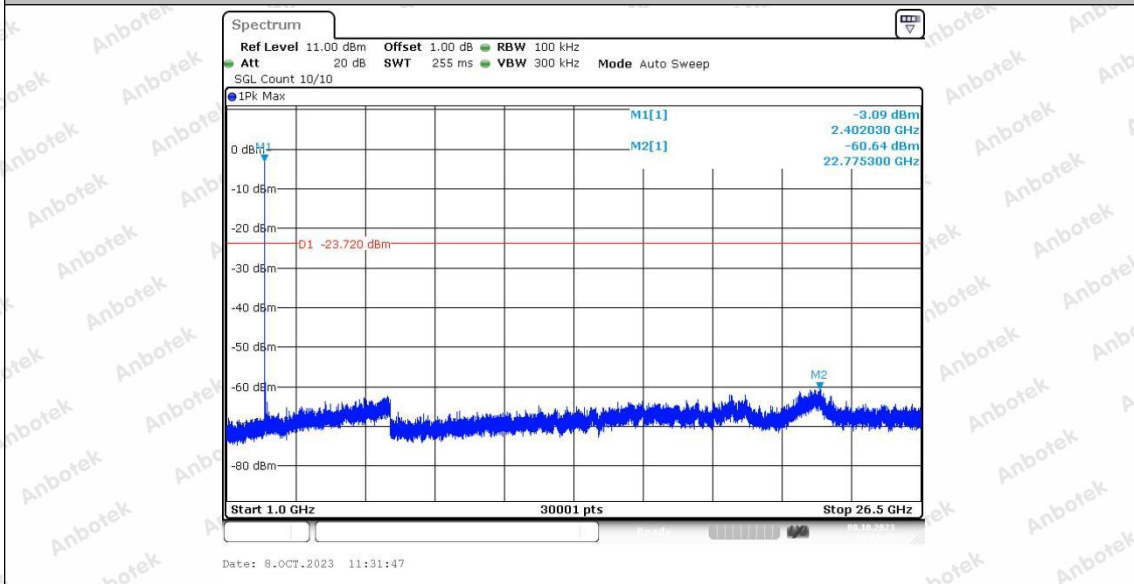


BLE\_2M\_Ant1\_2402\_30~1000





BLE\_2M\_Ant1\_2402\_1000~26500



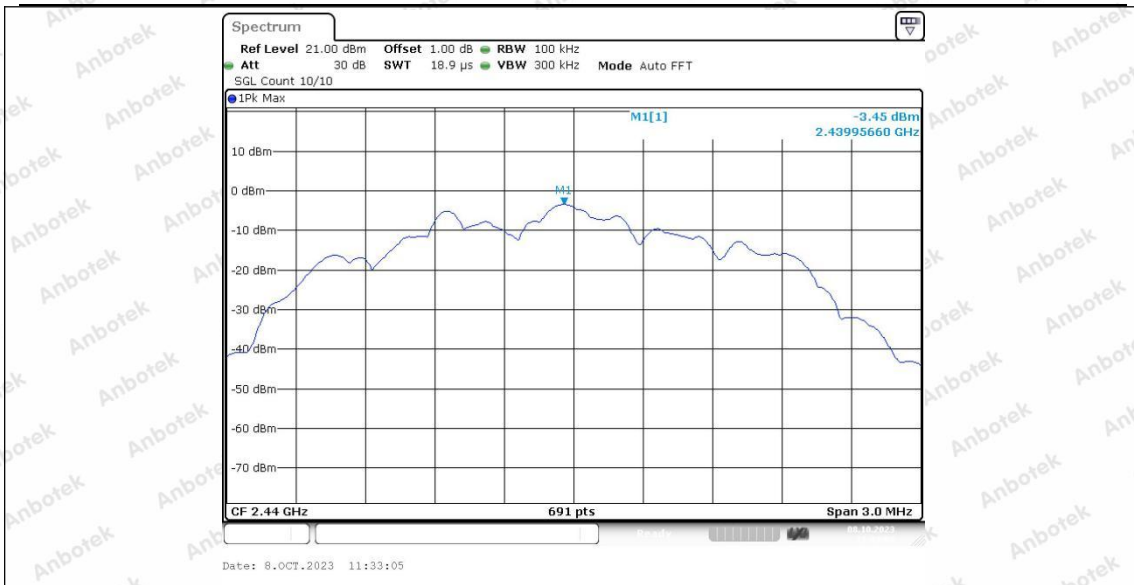
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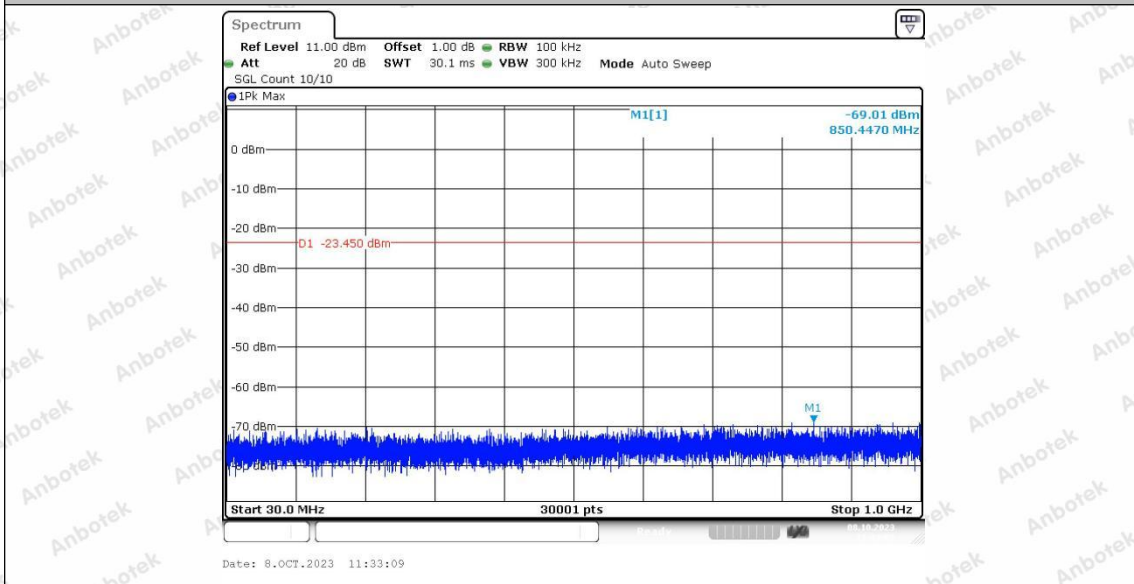
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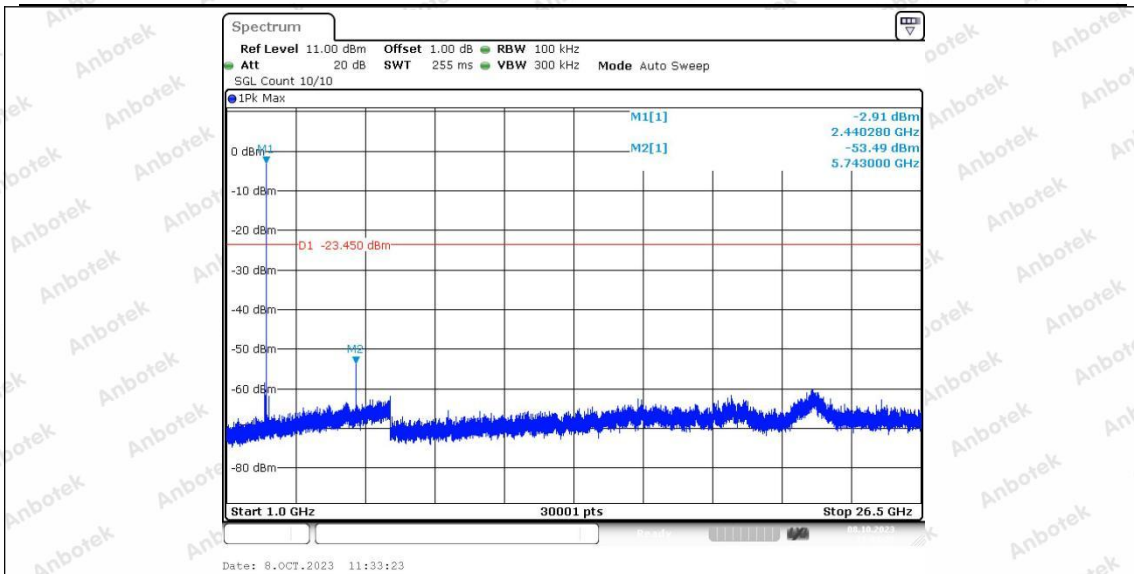


BLE\_2M\_Ant1\_2440\_30~1000



BLE\_2M\_Ant1\_2440\_1000~26500





BLE\_2M\_Ant1\_2480\_0~Reference



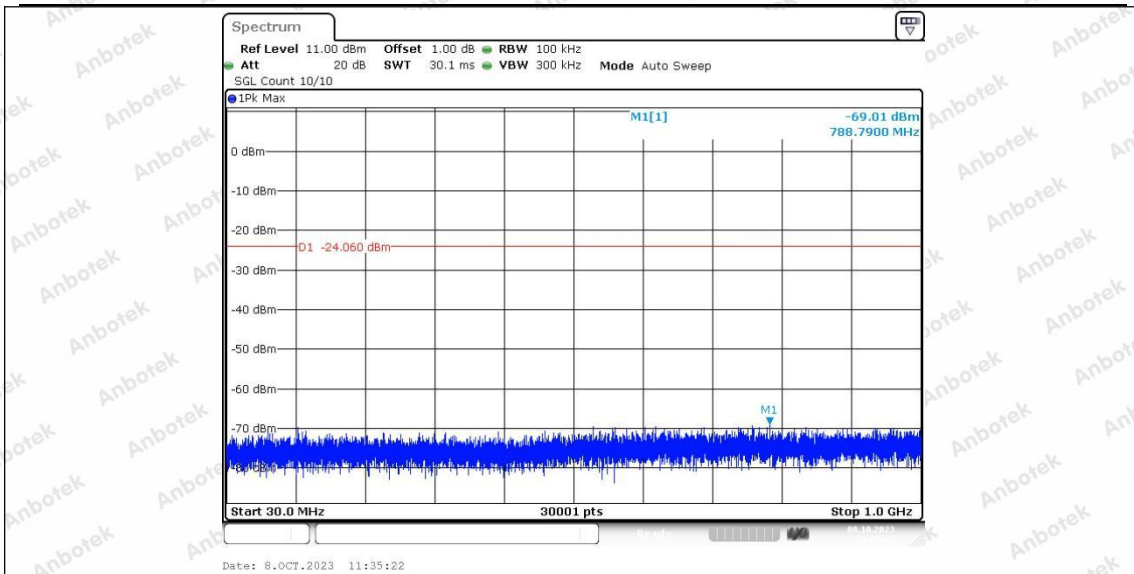
BLE\_2M\_Ant1\_2480\_30~1000

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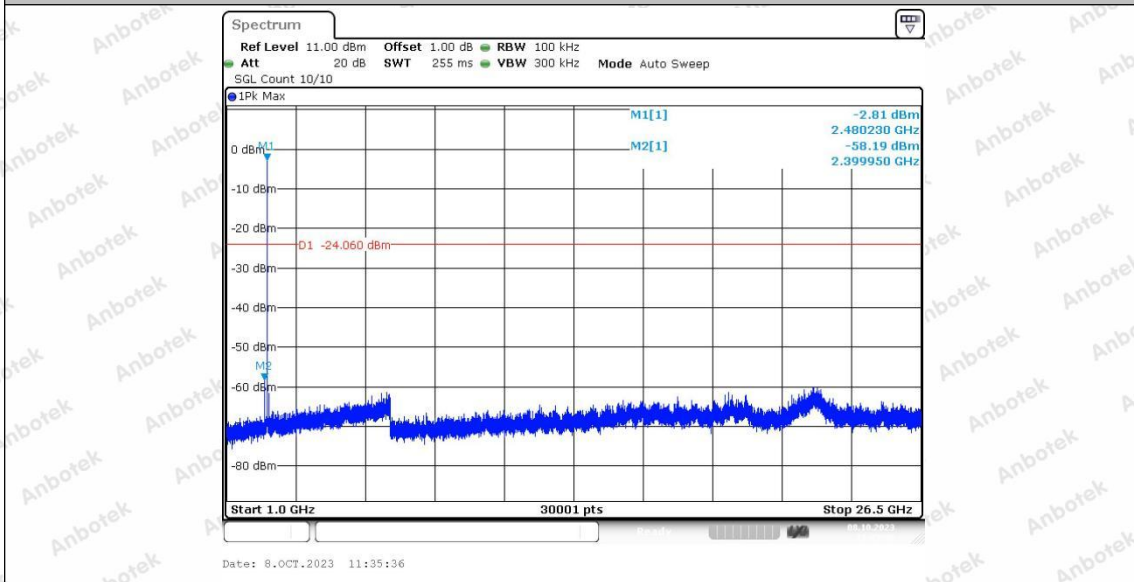
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### BLE\_2M\_Ant1\_2480\_1000~26500



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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	1.07	1.88	56.91	2.45
		2440	1.07	1.88	56.91	2.45
		2480	1.07	1.88	56.91	2.45

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## Test Graphs

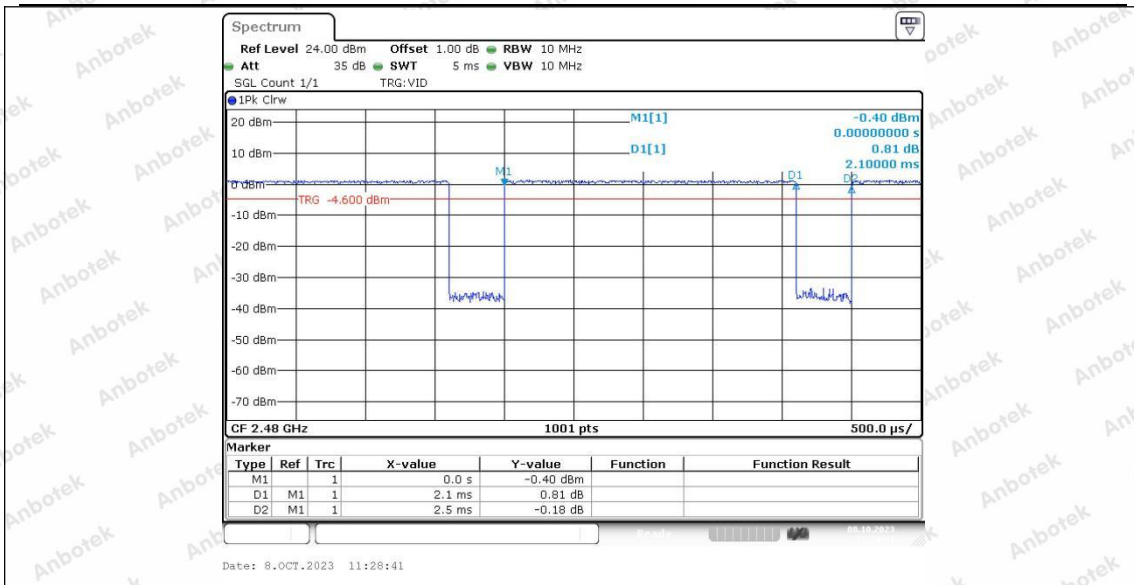


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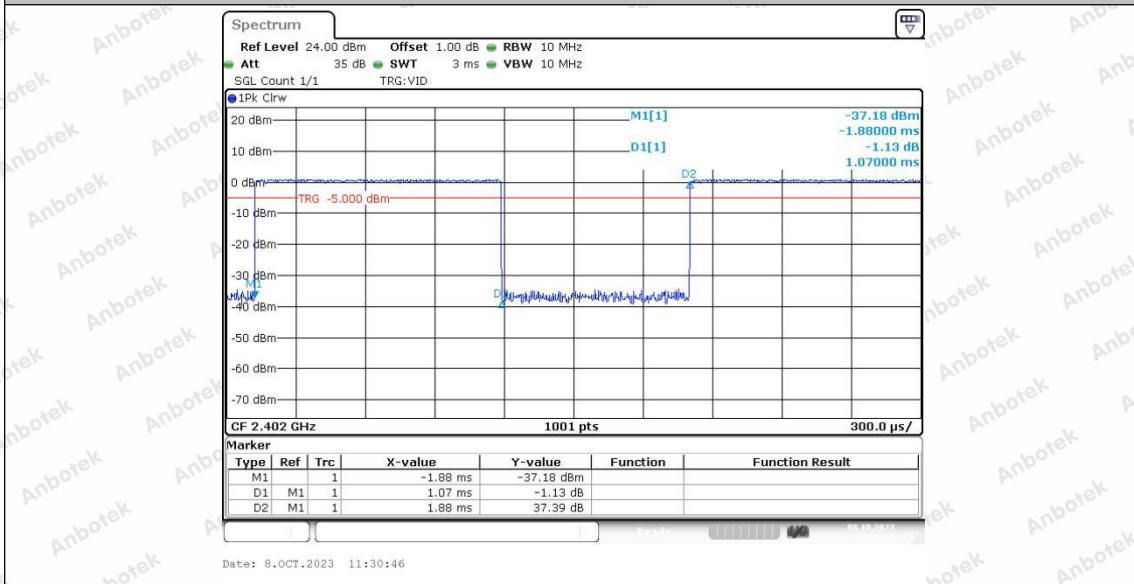
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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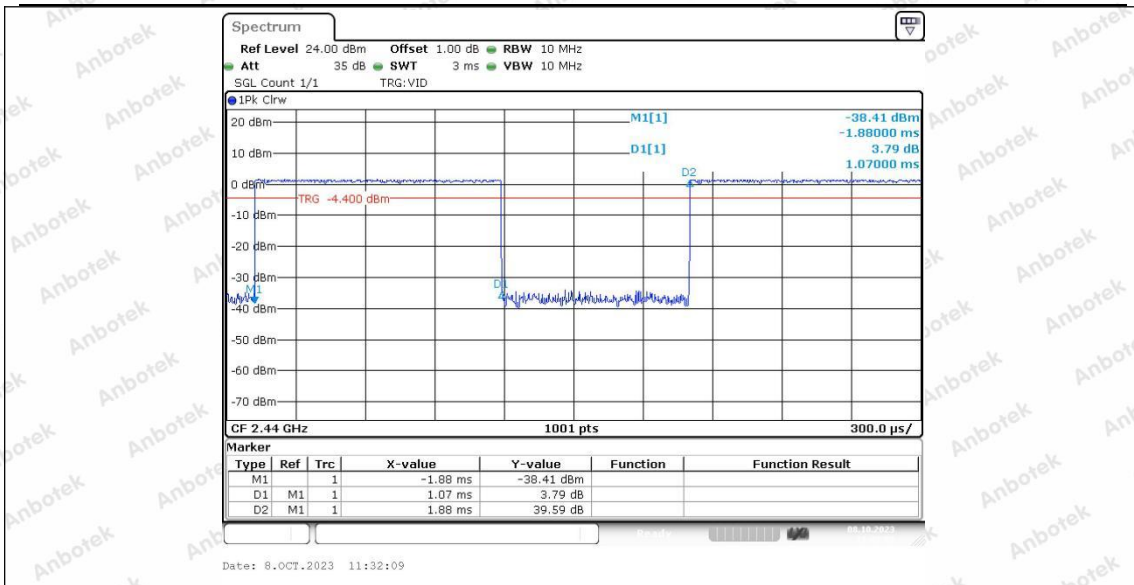
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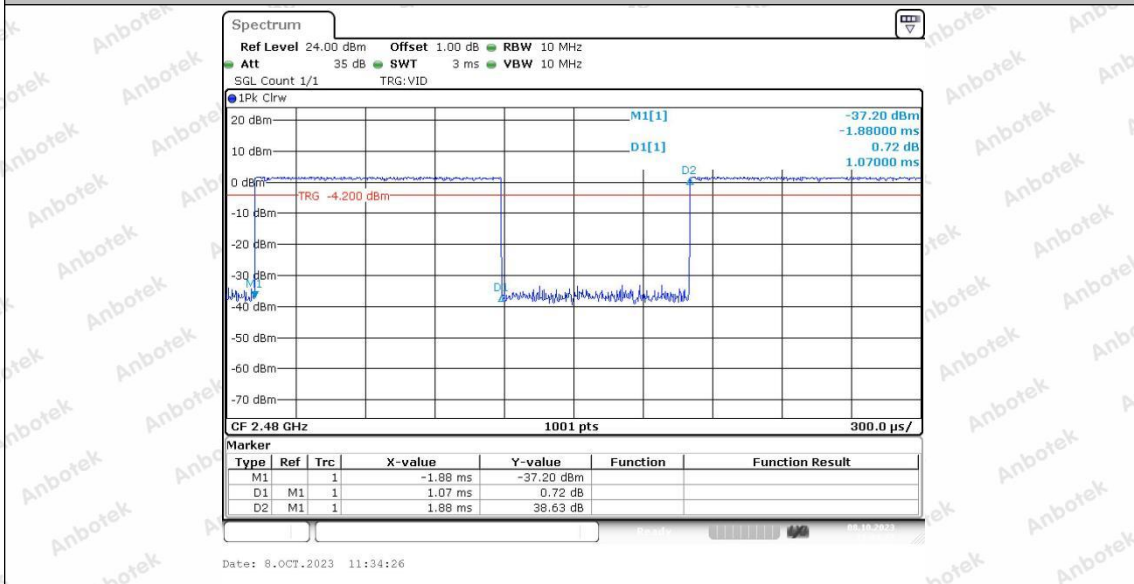
BLE\_2M\_Ant1\_2440







## BLE\_2M\_Ant1\_2480



---End---

