

## Appendix Test Data

Report No.:	18220WC30201902	Test Sample No.:	1-2-2
Start Test Date:	2023.10.09	Finish Test Date:	2023.10.16
Test Engineer:	Hayman Chen	Auditor:	RICK Luo
Temperature:	25.6°C	Relative Humidity:	49.2%
Pressure:	101kPa		

## Appendix A: DTS Bandwidth

## Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
10M	Ant1	2420	8.82	2415.50	2424.32	0.5	PASS
	Ant2	2420	9.08	2415.46	2424.54	0.5	PASS
	Ant1	2440	8.76	2435.58	2444.34	0.5	PASS
	Ant2	2440	9.00	2435.44	2444.44	0.5	PASS
	Ant1	2460	9.08	2455.46	2464.54	0.5	PASS
	Ant2	2460	9.28	2455.40	2464.68	0.5	PASS
20M	Ant1	2420	18.36	2410.88	2429.24	0.5	PASS
	Ant2	2420	18.64	2410.64	2429.28	0.5	PASS
	Ant1	2440	18.28	2430.88	2449.16	0.5	PASS
	Ant2	2440	18.04	2430.96	2449.00	0.5	PASS
	Ant1	2460	18.56	2450.72	2469.28	0.5	PASS
	Ant2	2460	18.00	2450.96	2468.96	0.5	PASS
40M	Ant1	2420	35.76	2402.06	2437.82	0.5	PASS
	Ant2	2420	36.42	2401.70	2438.12	0.5	PASS
	Ant1	2440	36.06	2421.94	2458.00	0.5	PASS
	Ant2	2440	34.98	2422.30	2457.28	0.5	PASS
	Ant1	2460	36.00	2442.06	2478.06	0.5	PASS
	Ant2	2460	35.82	2442.36	2478.18	0.5	PASS

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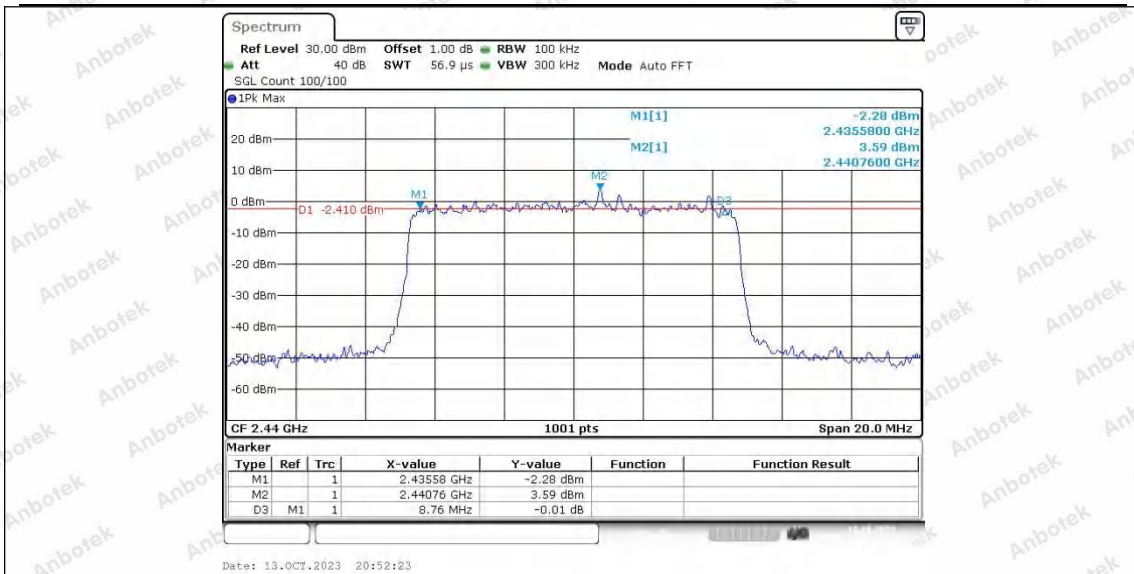


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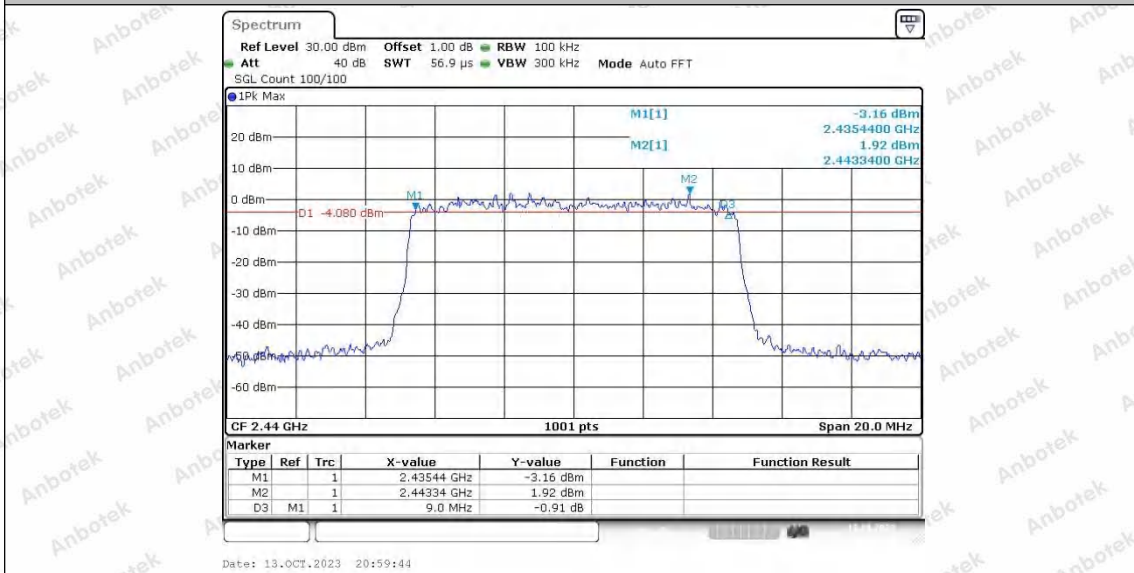


## Test Graphs



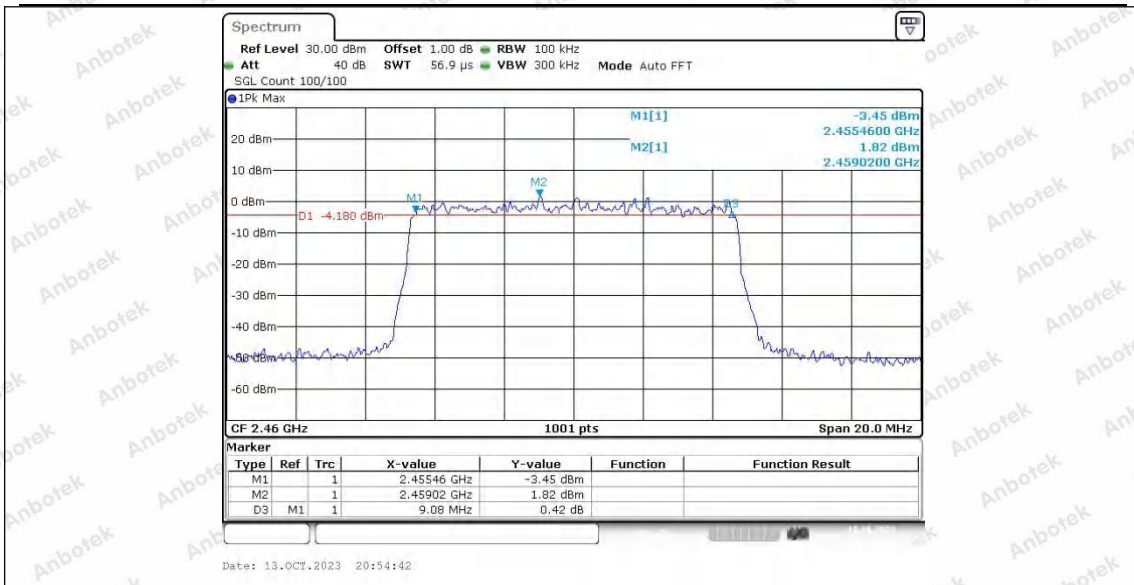


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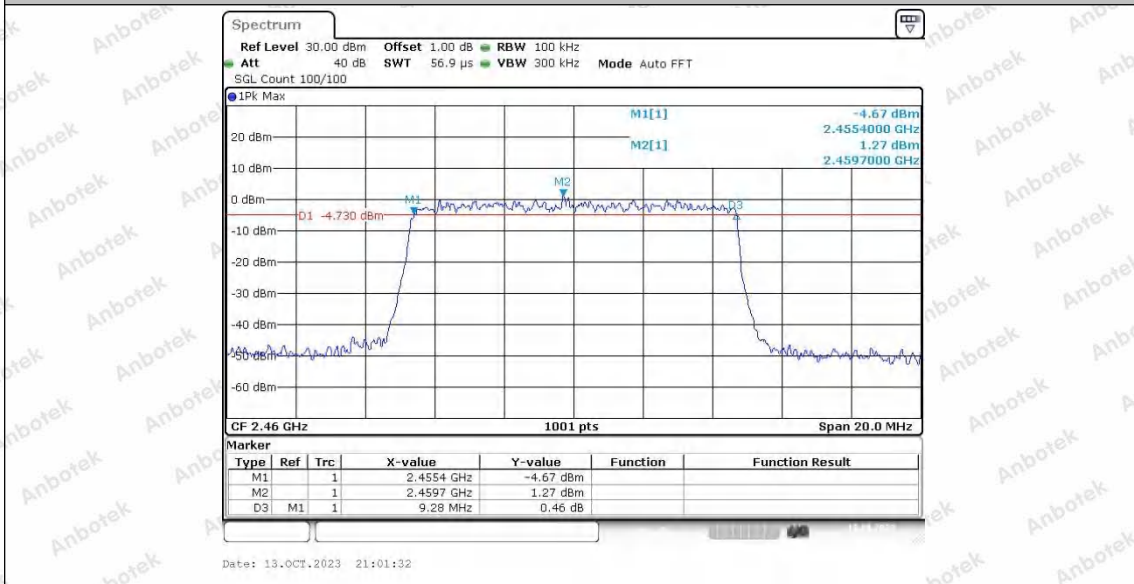


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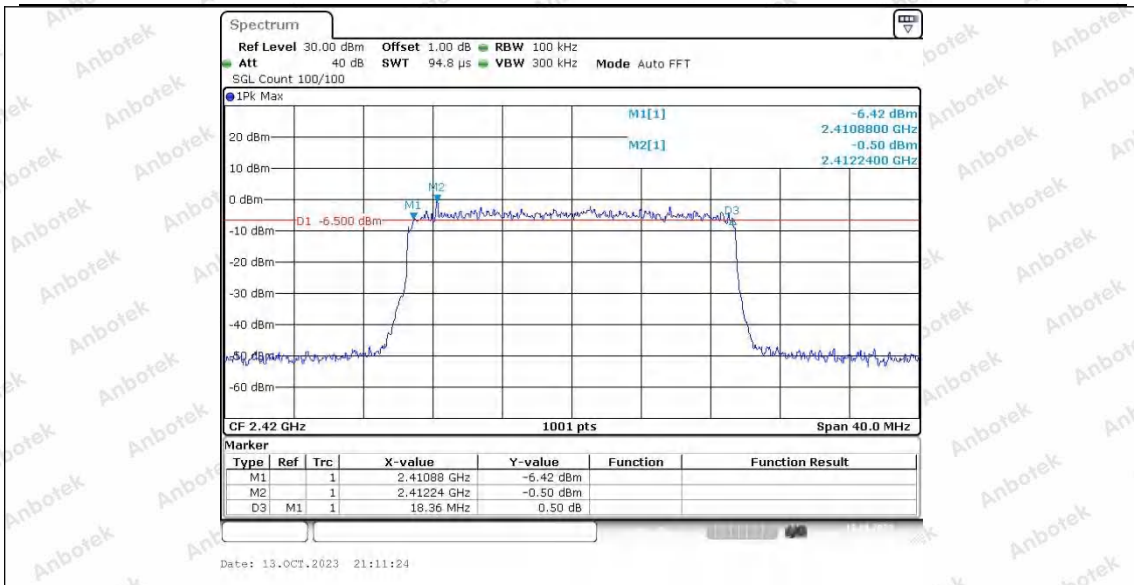


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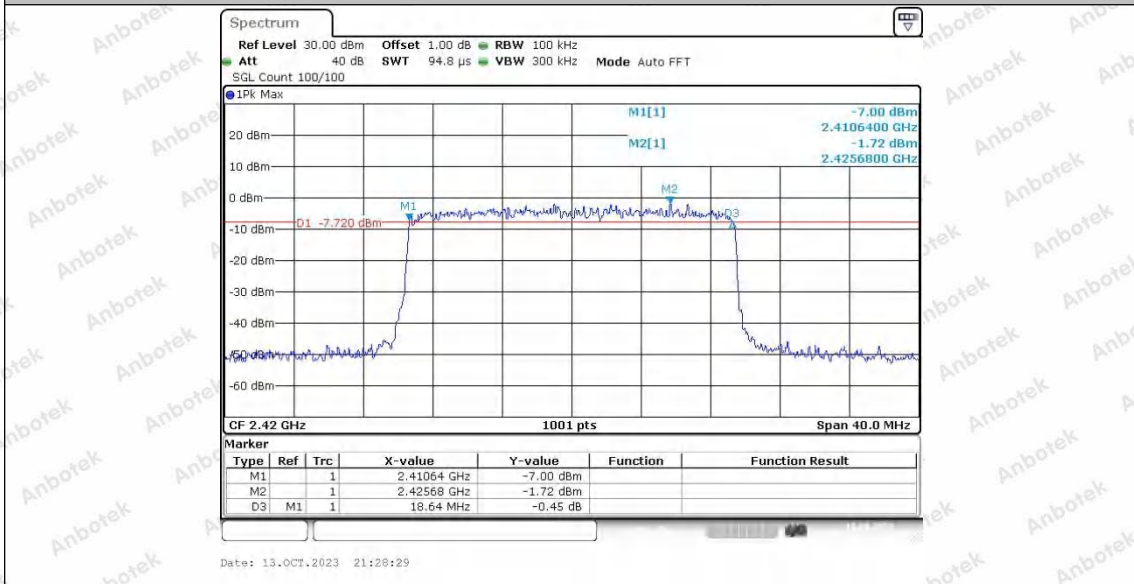


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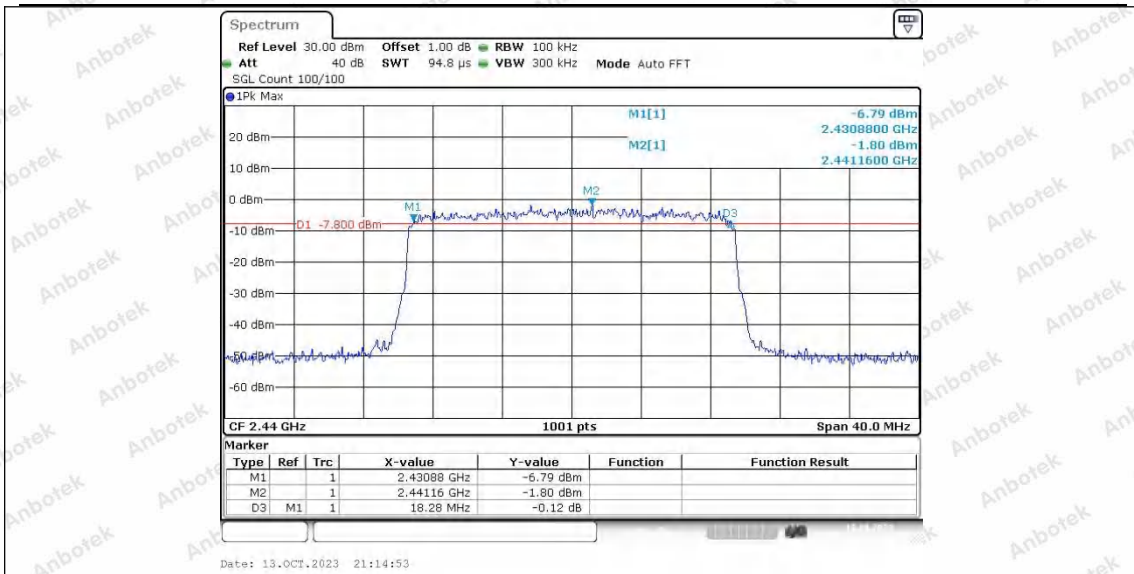


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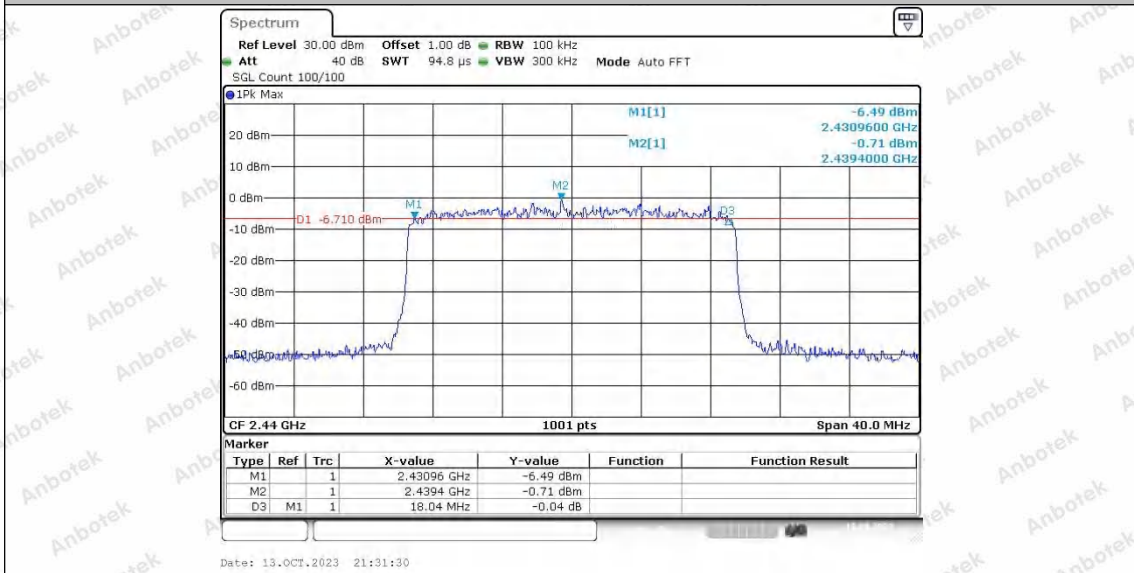


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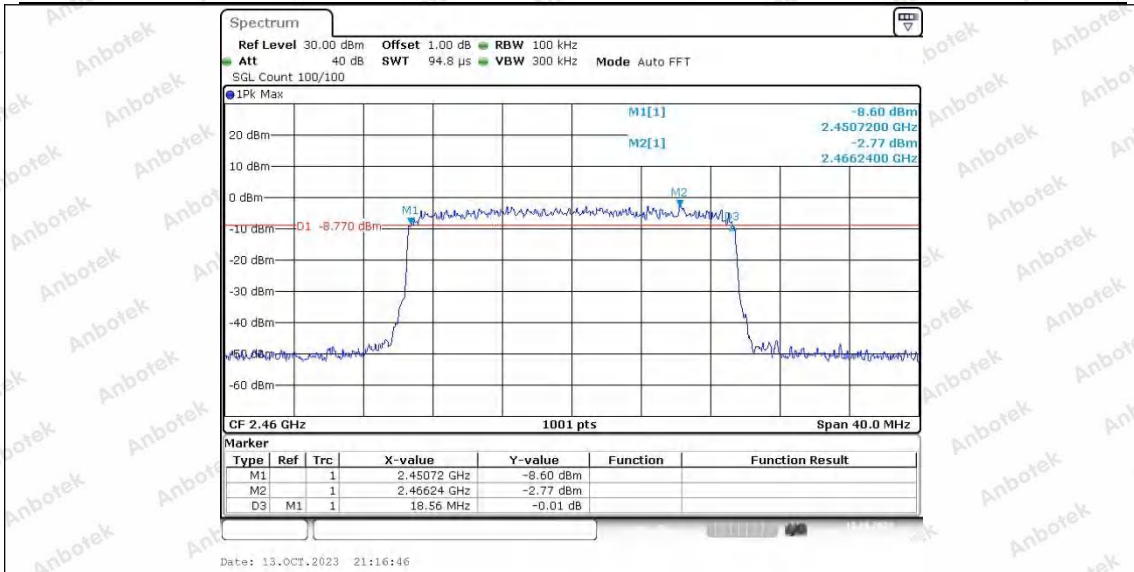


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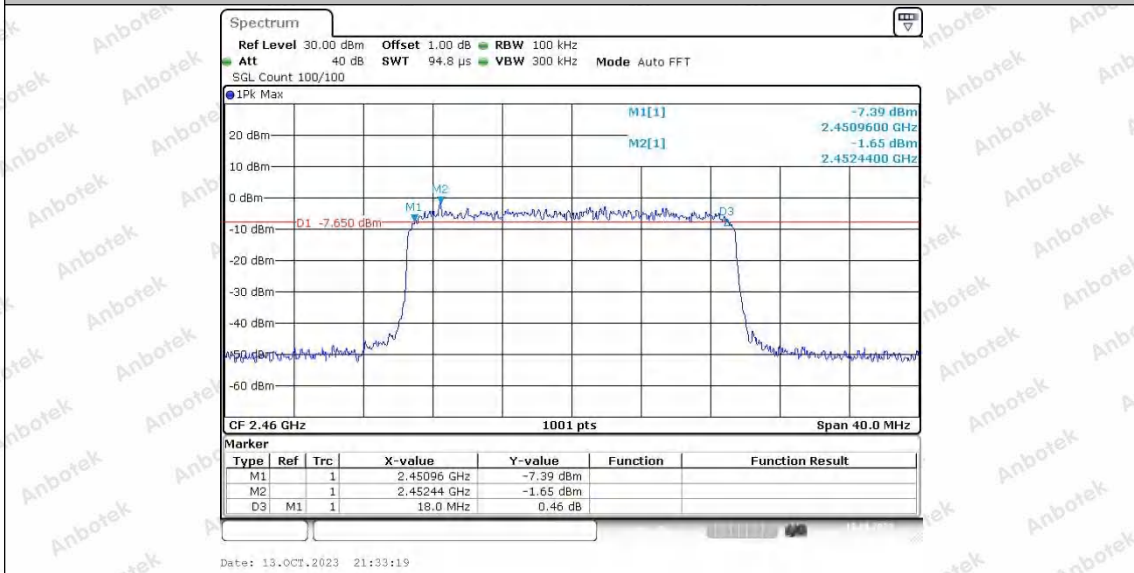


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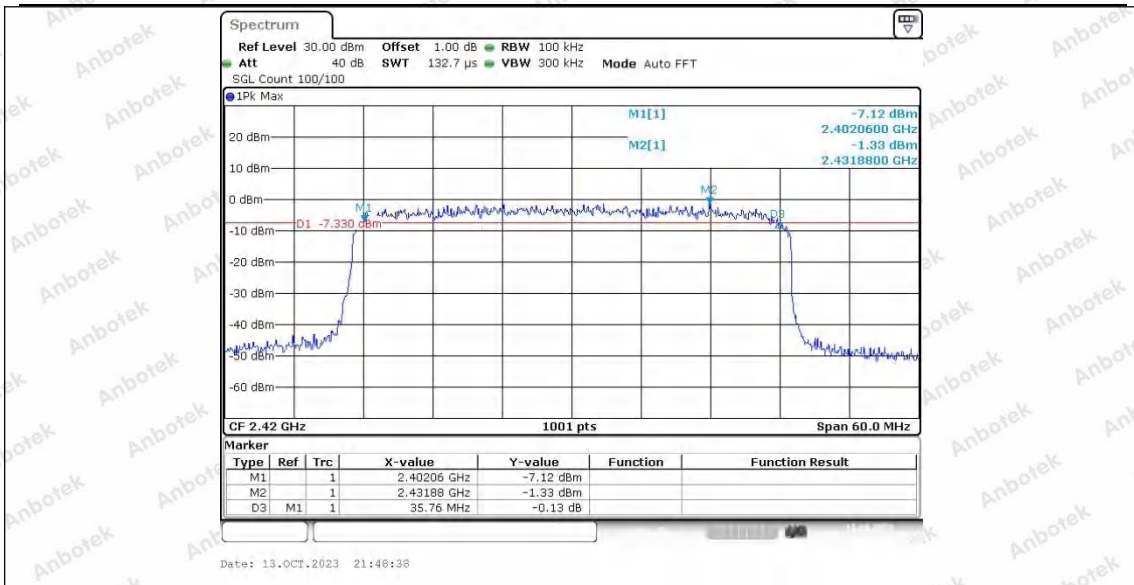


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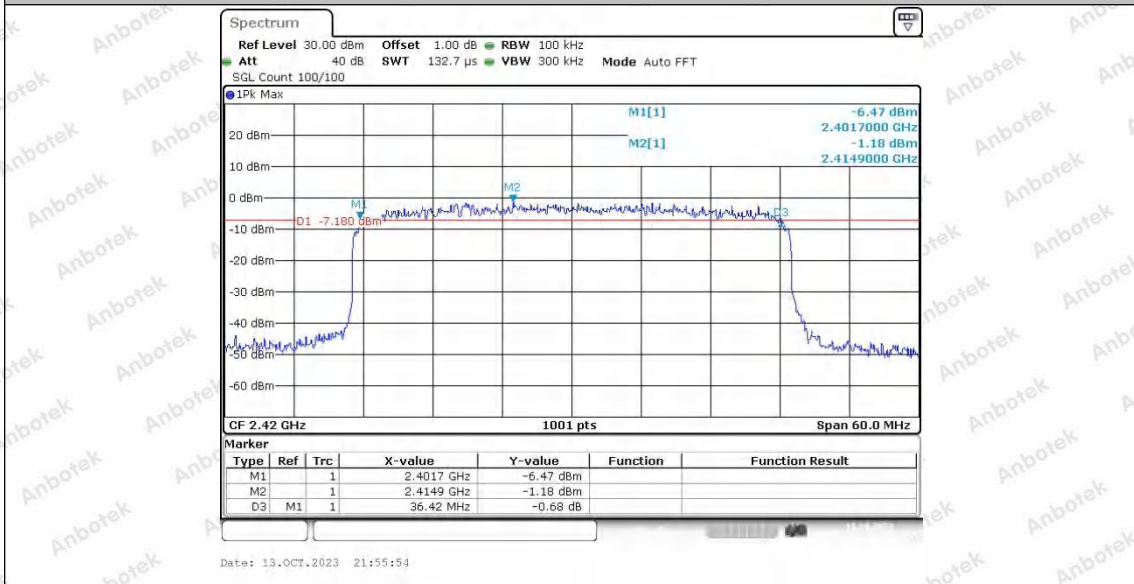


40M\_Ant1\_2420





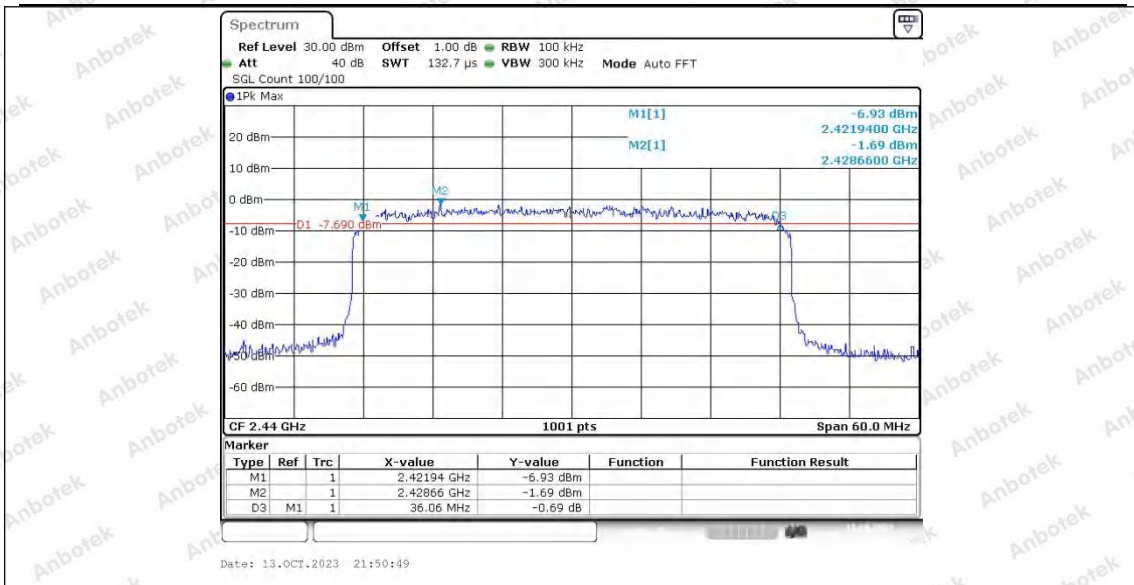
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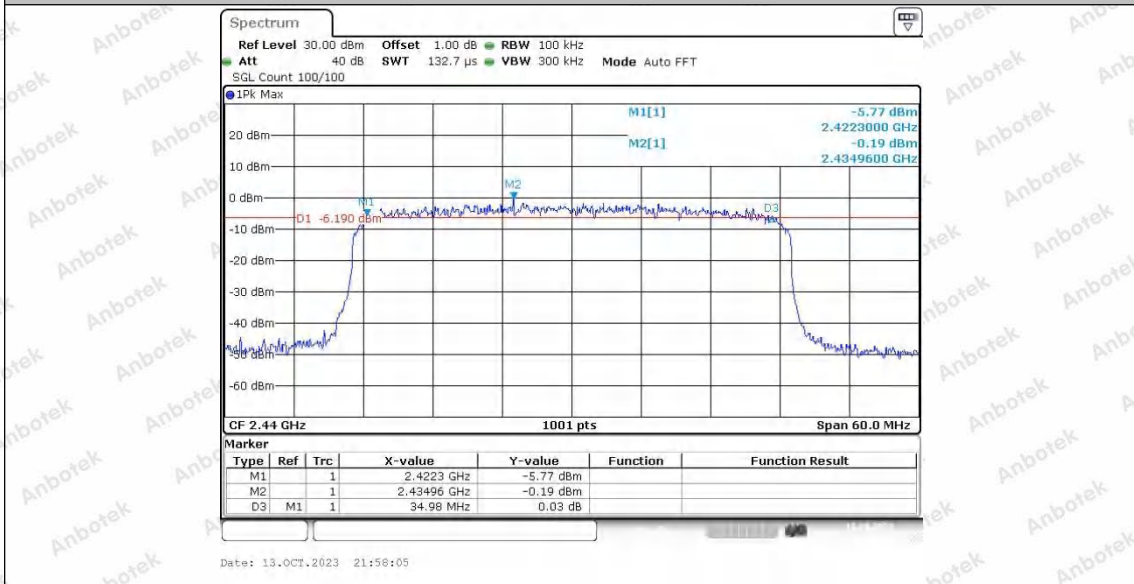
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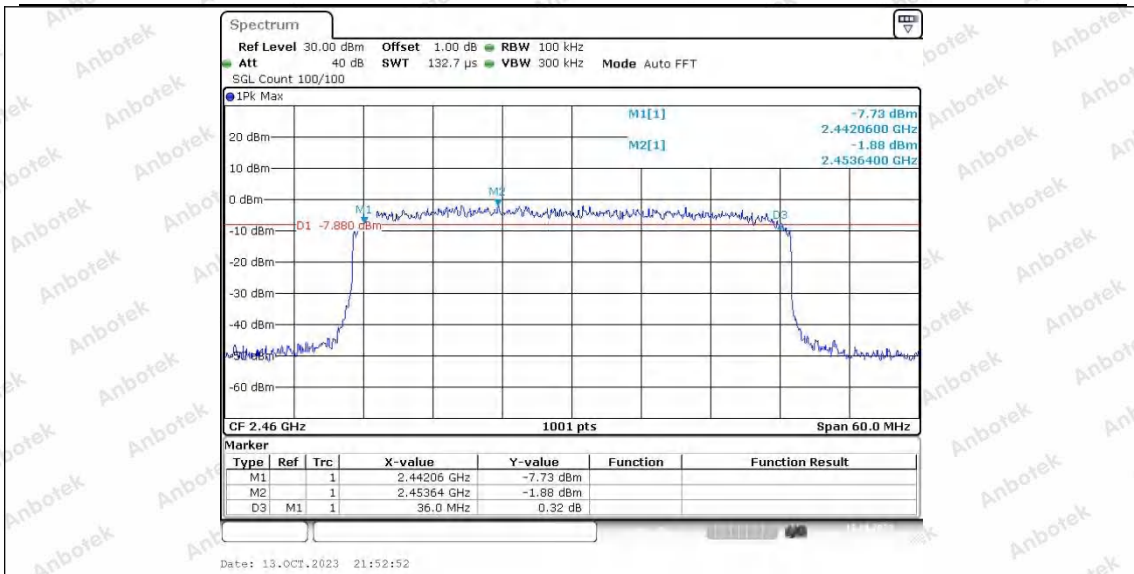


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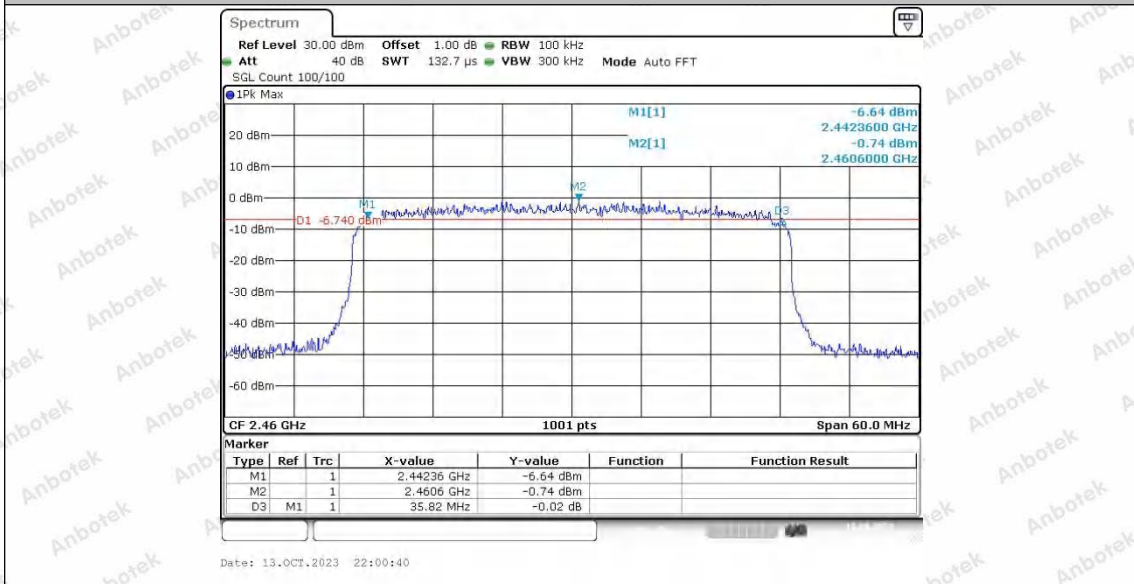


40M\_Ant1\_2460





## 40M\_Ant2\_2460



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## Appendix B: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
10M	Ant1	2420	9.271	2415.3447	2424.6154
	Ant2	2420	9.271	2415.3646	2424.6354
	Ant1	2440	9.311	2435.3447	2444.6553
	Ant2	2440	9.311	2435.3447	2444.6553
	Ant1	2460	9.271	2455.3646	2464.6354
	Ant2	2460	9.291	2455.3447	2464.6354
20M	Ant1	2420	18.581	2410.6893	2429.2707
	Ant2	2420	18.501	2410.7692	2429.2707
	Ant1	2440	18.541	2430.7293	2449.2707
	Ant2	2440	18.501	2430.7293	2449.2308
	Ant1	2460	18.462	2450.7692	2469.2308
	Ant2	2460	18.501	2450.7293	2469.2308
40M	Ant1	2420	36.623	2401.6583	2438.2817
	Ant2	2420	36.444	2401.7782	2438.2218
	Ant1	2440	36.444	2421.7183	2458.1618
	Ant2	2440	36.444	2421.7183	2458.1618
	Ant1	2460	36.503	2441.6583	2478.1618
	Ant2	2460	36.444	2441.7782	2478.2218

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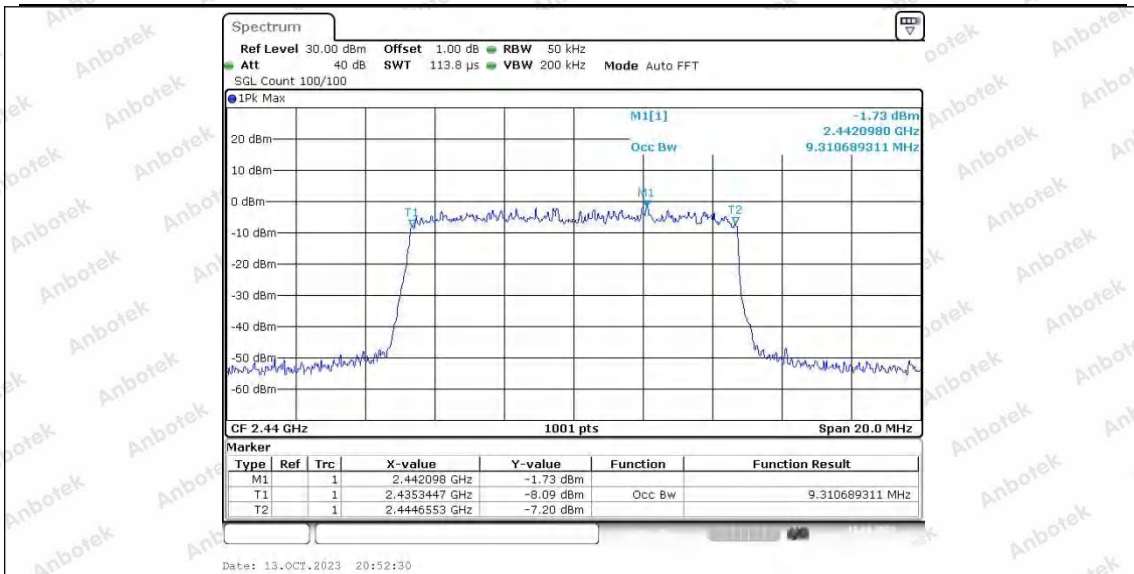


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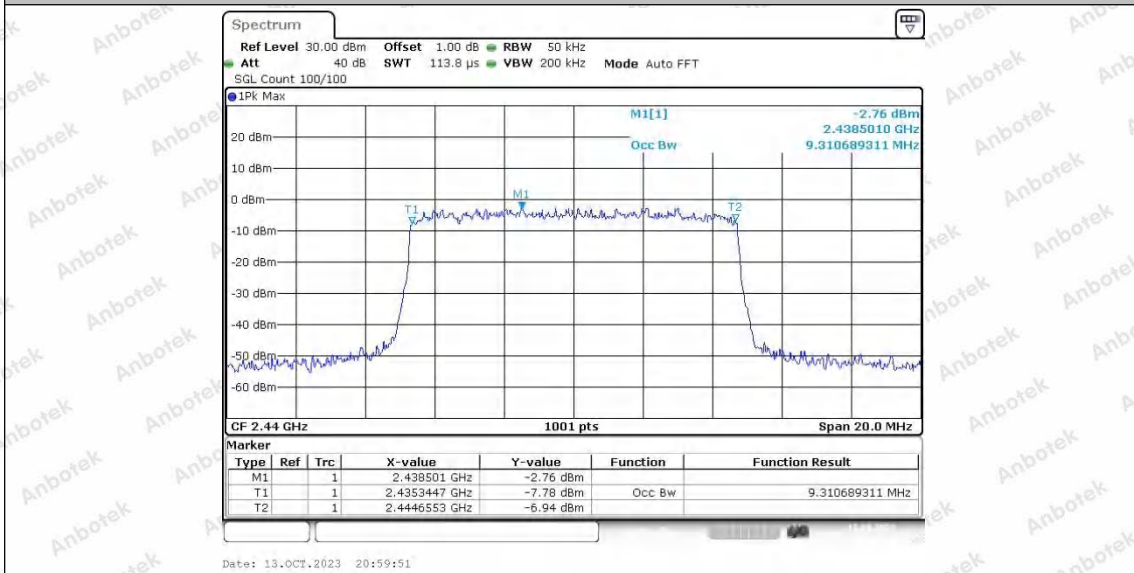


## Test Graphs





10M\_Ant2\_2440



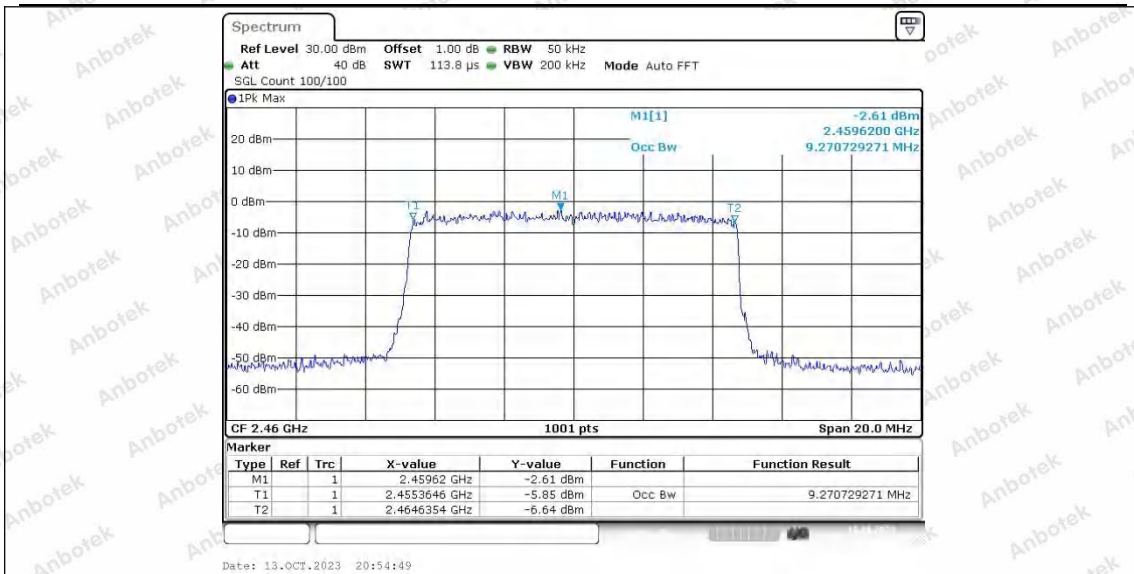
10M\_Ant1\_2460

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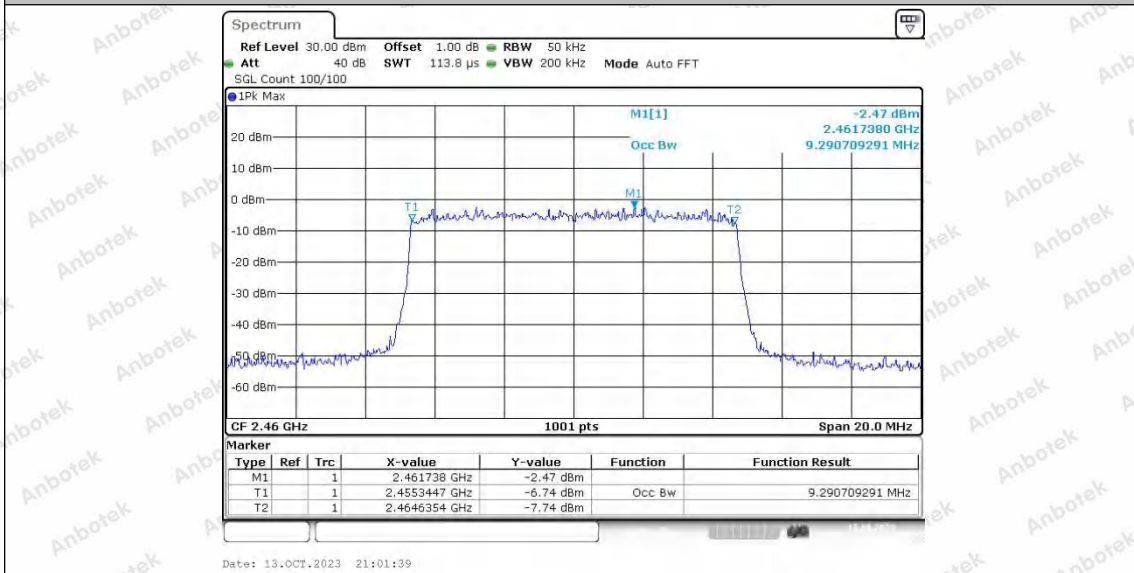
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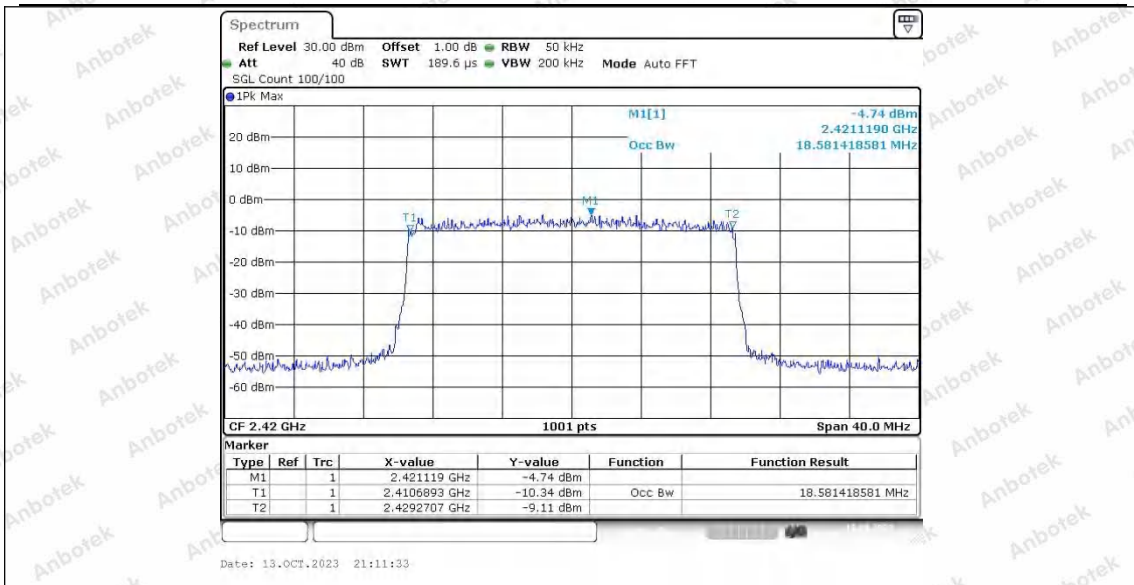


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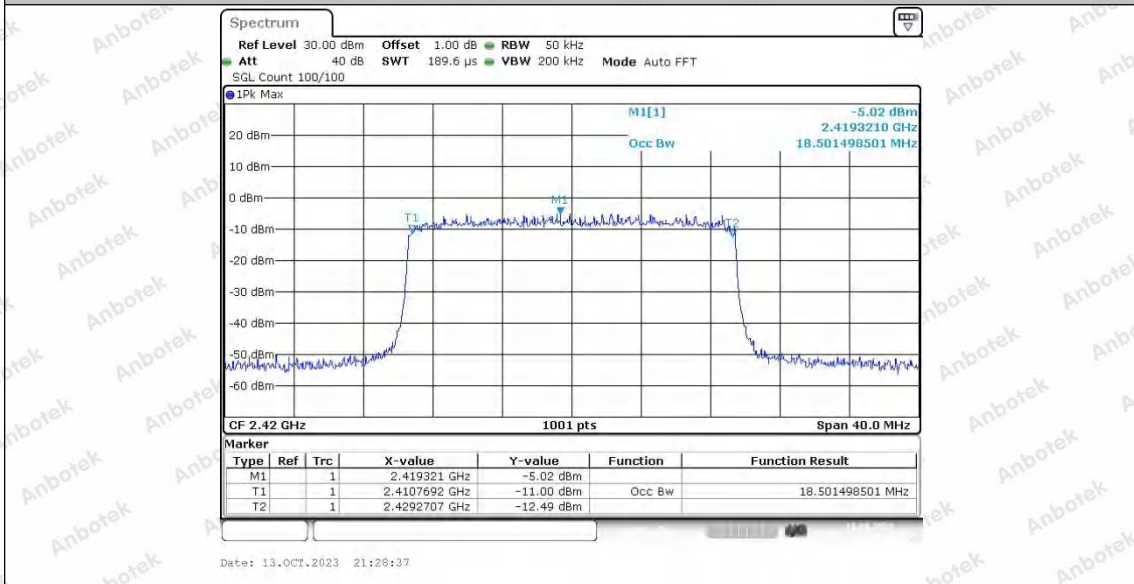


20M\_Ant1\_2420



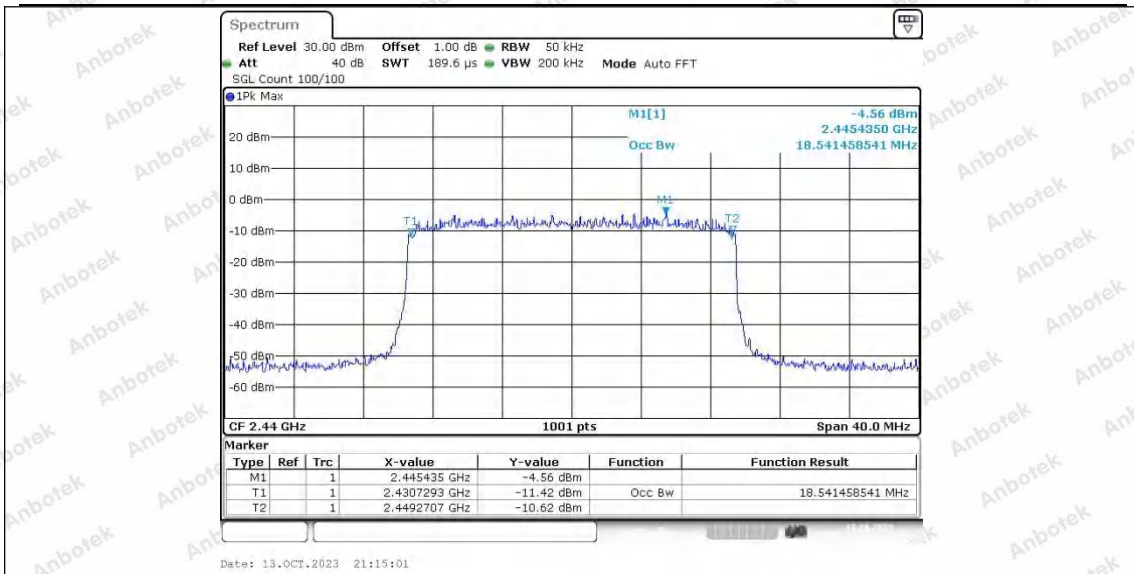


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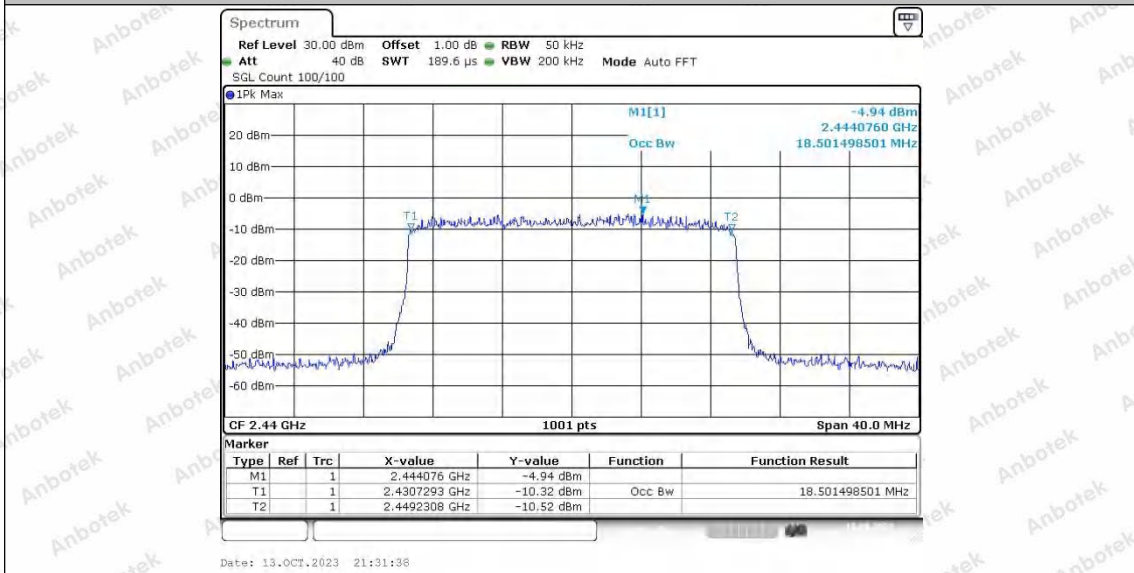


20M\_Ant1\_2440





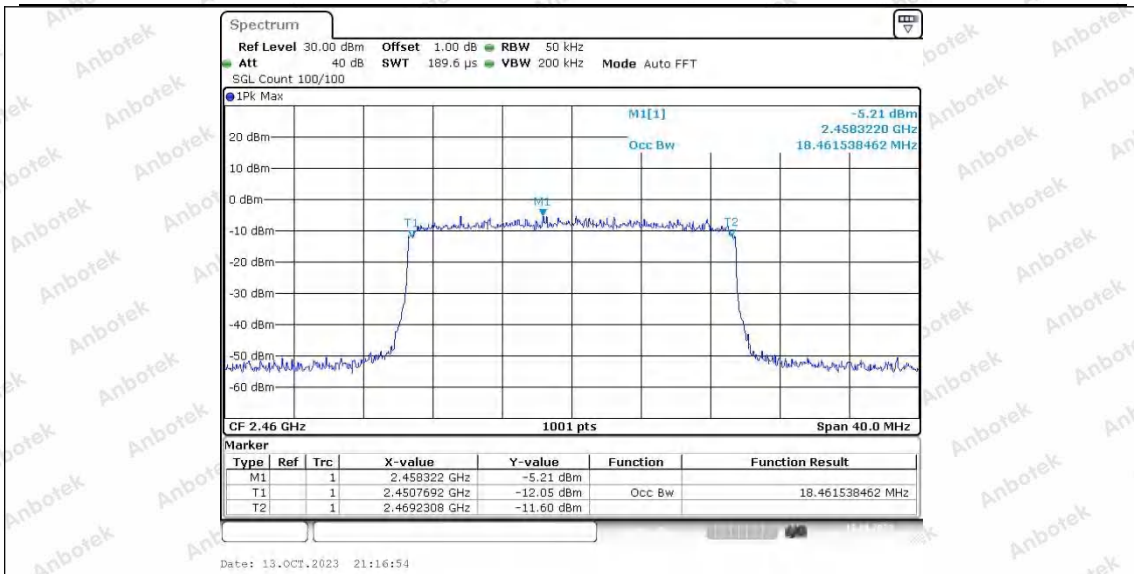
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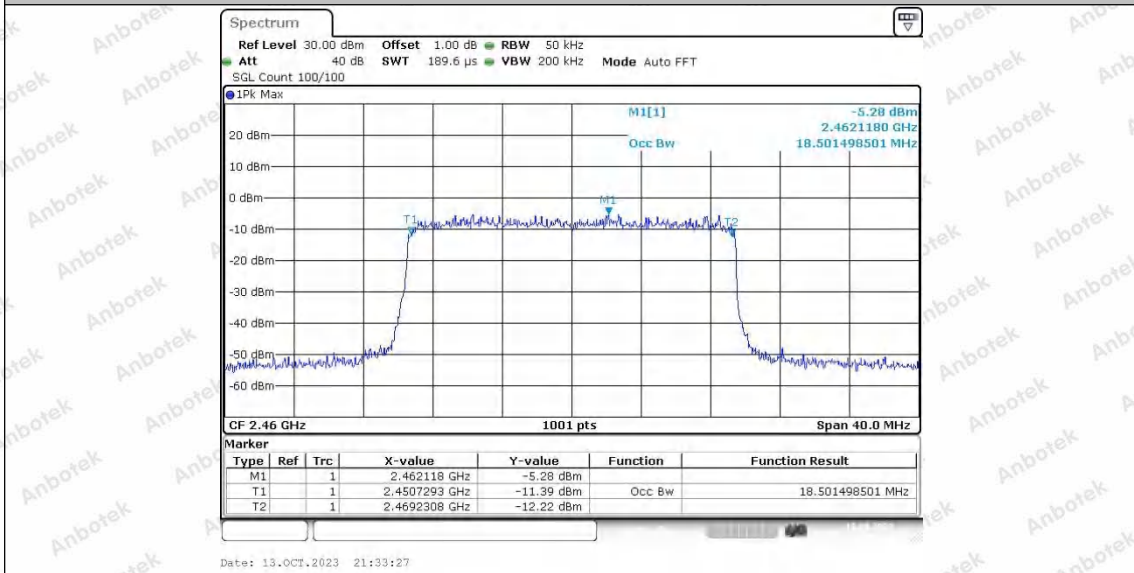
20M\_Ant1\_2460







20M\_Ant2\_2460



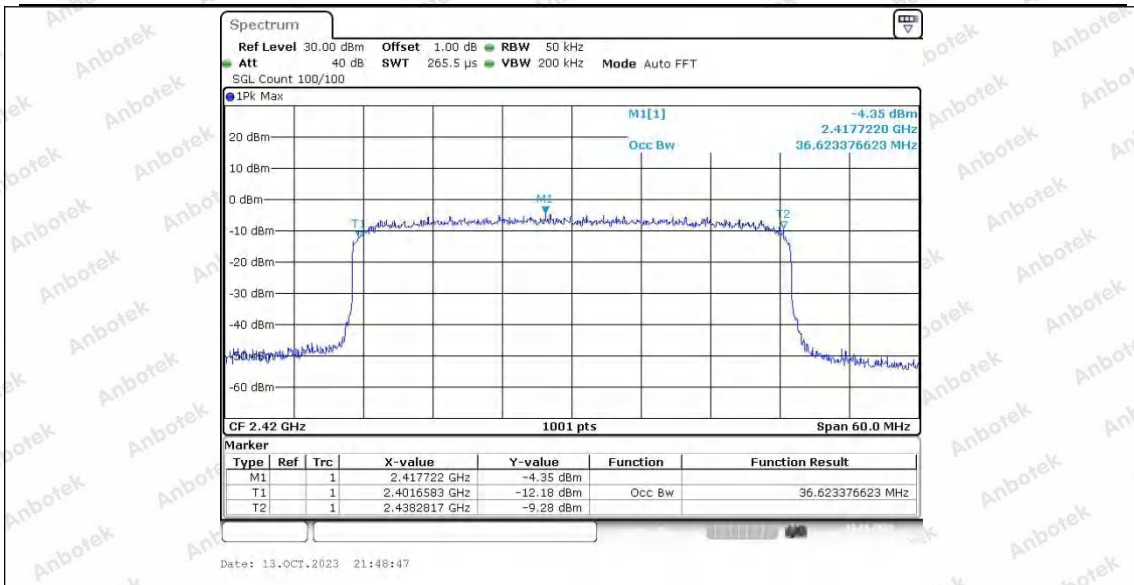
40M\_Ant1\_2420

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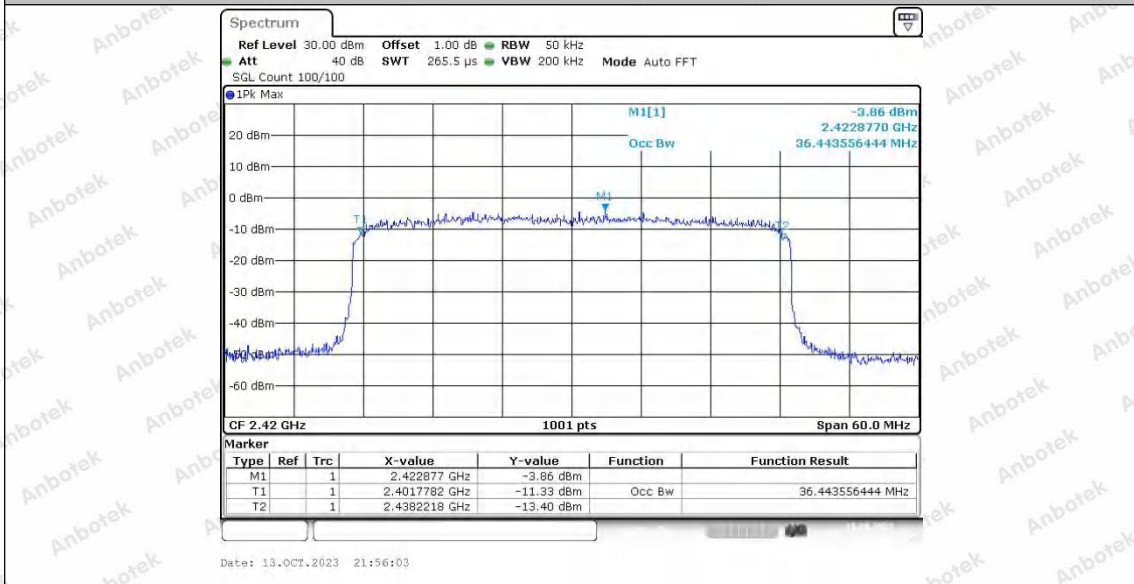
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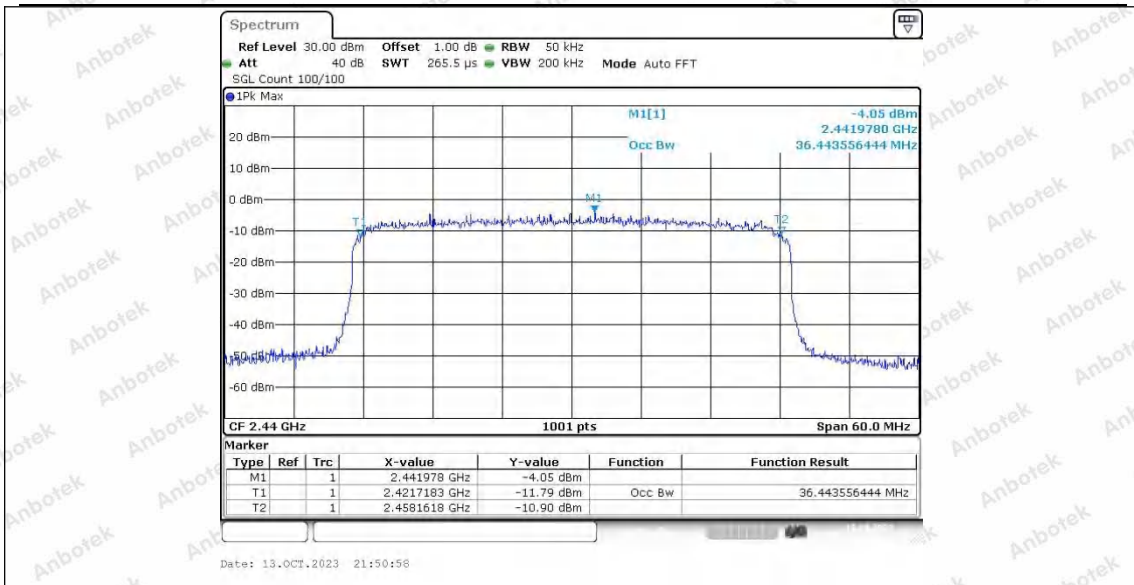


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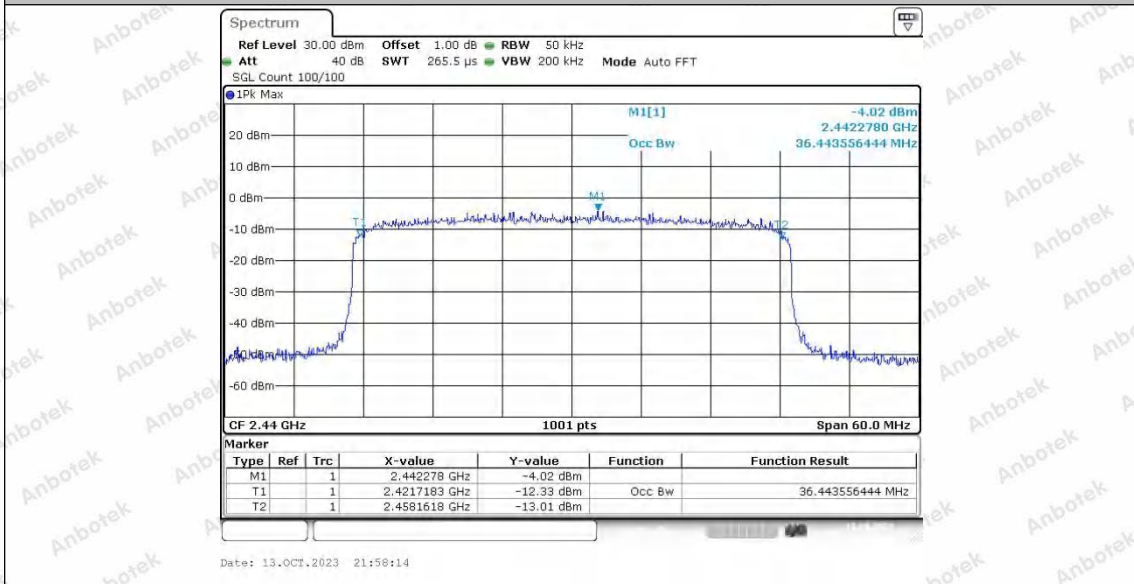


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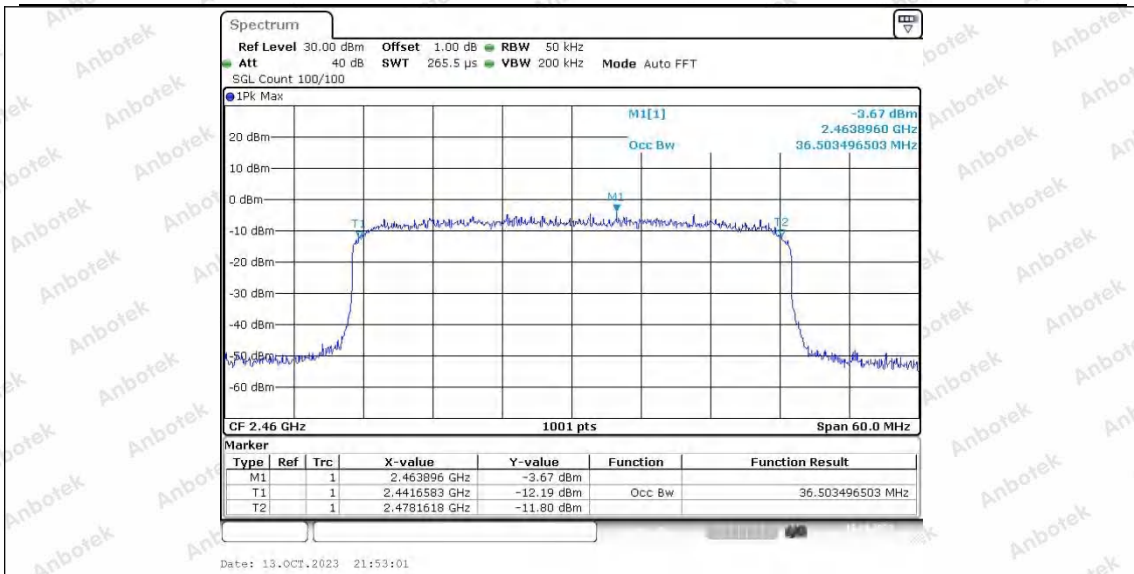


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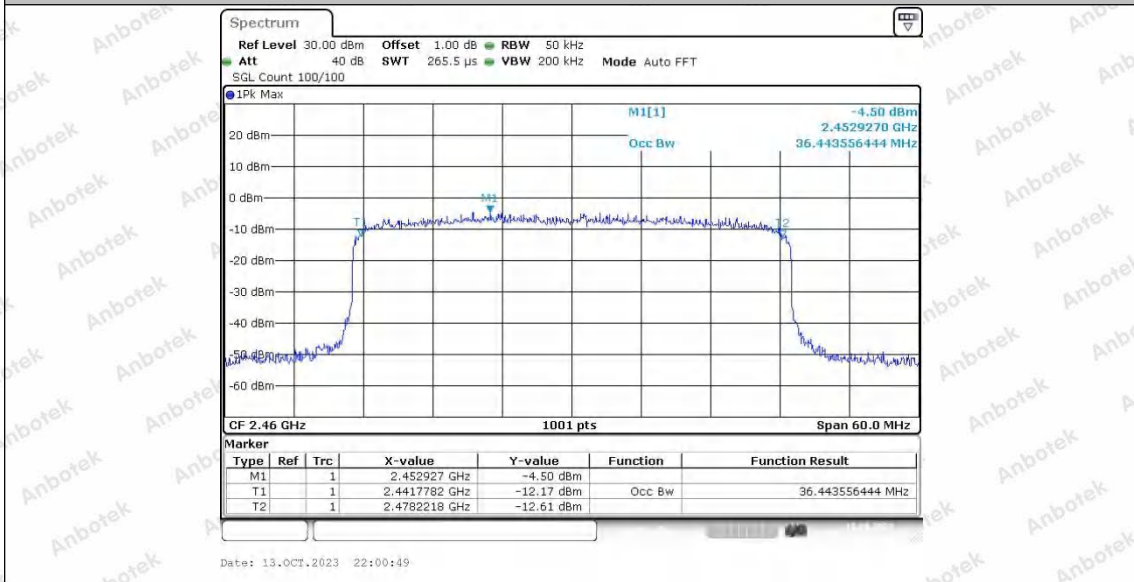


40M\_Ant1\_2460





## 40M\_Ant2\_2460



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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
10M	Ant1	2420	16.27	≤30	PASS
	Ant2	2420	16.42	≤30	PASS
	Ant1	2440	16.51	≤30	PASS
	Ant2	2440	16.38	≤30	PASS
	Ant1	2460	17.19	≤30	PASS
	Ant2	2460	16.22	≤30	PASS
20M	Ant1	2420	13.71	≤30	PASS
	Ant2	2420	12.99	≤30	PASS
	Ant1	2440	13.33	≤30	PASS
	Ant2	2440	12.77	≤30	PASS
	Ant1	2460	13.10	≤30	PASS
	Ant2	2460	12.86	≤30	PASS
40M	Ant1	2420	14.85	≤30	PASS
	Ant2	2420	14.39	≤30	PASS
	Ant1	2440	14.53	≤30	PASS
	Ant2	2440	14.29	≤30	PASS
	Ant1	2460	14.32	≤30	PASS
	Ant2	2460	13.77	≤30	PASS

### MIMO

TestMode	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
10M	2420	19.36	≤29.41	PASS
	2440	19.46	≤29.41	PASS
	2460	19.74	≤29.41	PASS
20M	2420	16.38	≤29.41	PASS
	2440	16.07	≤29.41	PASS
	2460	15.99	≤29.41	PASS
40M	2420	17.64	≤29.41	PASS
	2440	17.42	≤29.41	PASS
	2460	17.06	≤29.41	PASS

Note:

- As Directional gain =  $10 \log[(10G1/20 + 10G2/20)^2 / NANT]$  dBi=6.59>6dBi, so limit=30-(6.59-6.00)=29.41dBm.
- MIMO=  $10 * \log(10^{ANT1/10} + 10^{(ANT2/10)})$

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## Appendix D: Maximum power spectral density

### Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
10M	Ant1	2420	-14.73	≤8.00	PASS
	Ant2	2420	-14.47	≤8.00	PASS
	Ant1	2440	-14.86	≤8.00	PASS
	Ant2	2440	-14.98	≤8.00	PASS
	Ant1	2460	-14.89	≤8.00	PASS
	Ant2	2460	-15.22	≤8.00	PASS
20M	Ant1	2420	-17.45	≤8.00	PASS
	Ant2	2420	-17.42	≤8.00	PASS
	Ant1	2440	-17.87	≤8.00	PASS
	Ant2	2440	-17.86	≤8.00	PASS
	Ant1	2460	-17.54	≤8.00	PASS
	Ant2	2460	-17.81	≤8.00	PASS
40M	Ant1	2420	-16.12	≤8.00	PASS
	Ant2	2420	-16	≤8.00	PASS
	Ant1	2440	-15.86	≤8.00	PASS
	Ant2	2440	-15.36	≤8.00	PASS
	Ant1	2460	-15.83	≤8.00	PASS
	Ant2	2460	-15.97	≤8.00	PASS

### MIMO

TestMode	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
10M	2420	-11.59	≤7.41	PASS
	2440	-11.91	≤7.41	PASS
	2460	-12.04	≤7.41	PASS
20M	2420	-14.42	≤7.41	PASS
	2440	-14.85	≤7.41	PASS
	2460	-14.66	≤7.41	PASS
40M	2420	-13.05	≤7.41	PASS
	2440	-12.59	≤7.41	PASS
	2460	-12.89	≤7.41	PASS

Note:

3. As Directional gain =  $10 \log[(10G1/20 + 10G2/20) 2 / NANT]$  dBi=6.59>6dBi,  
so limit=8-(6.59-6.00)=7.41dBm/3kHz.

4. MIMO=  $10 * \log(10^{ANT1/10} + 10^{ANT2/10})$

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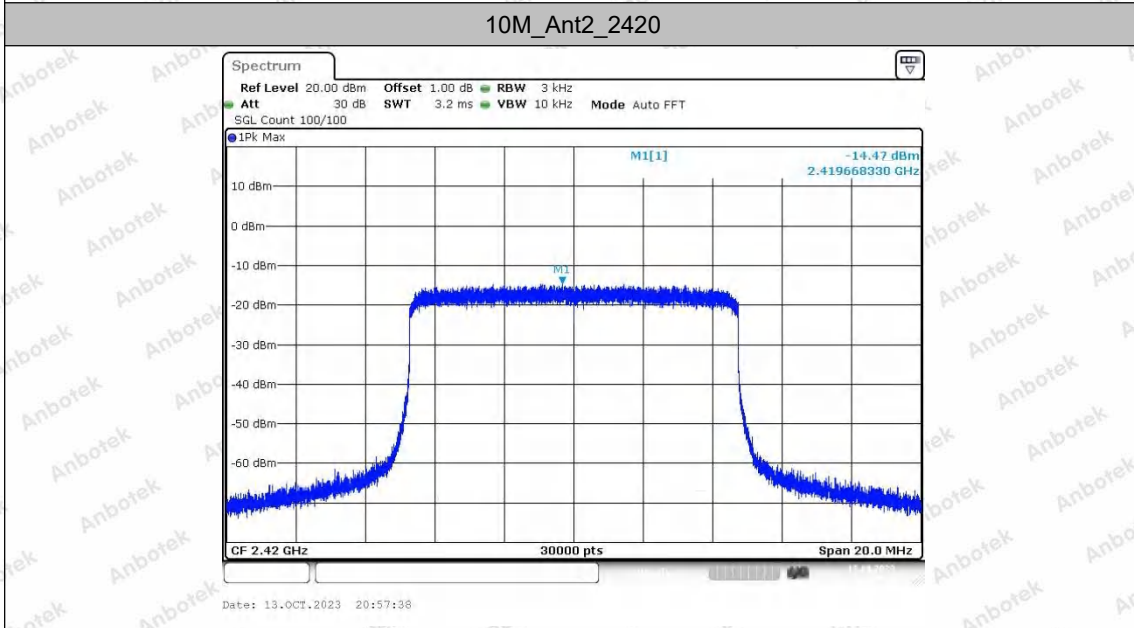
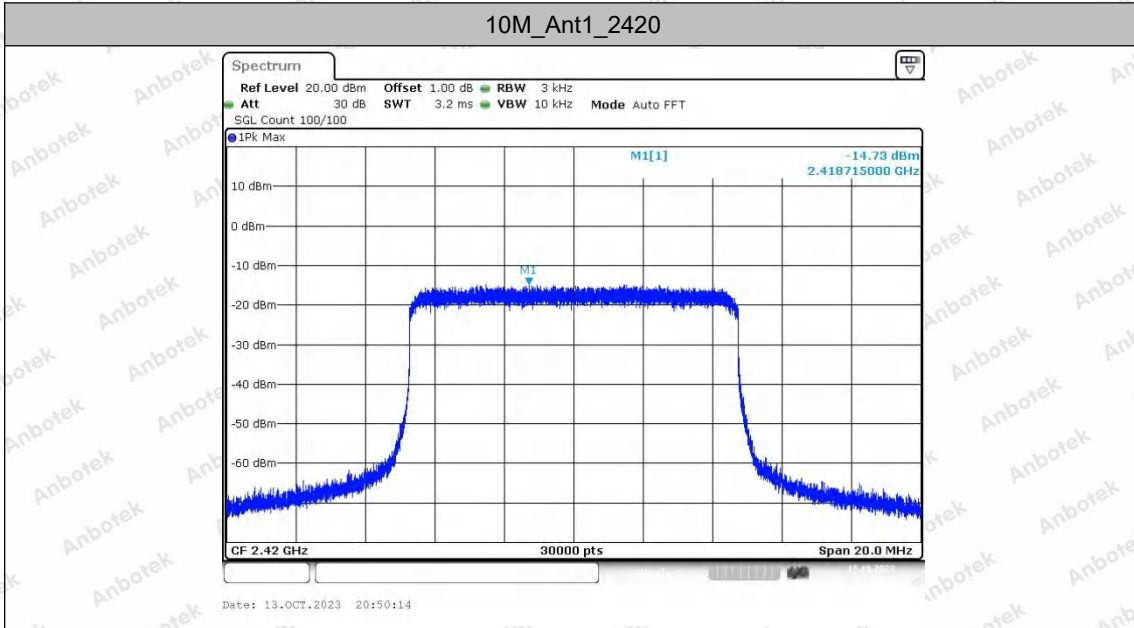
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## Test Graphs



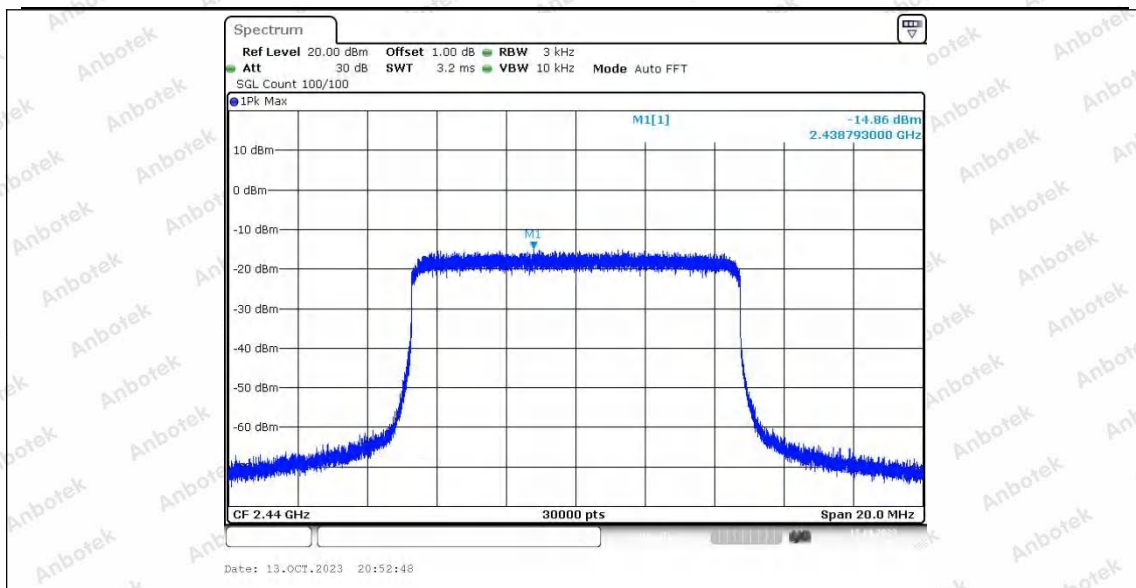
### 10M\_Ant1\_2440

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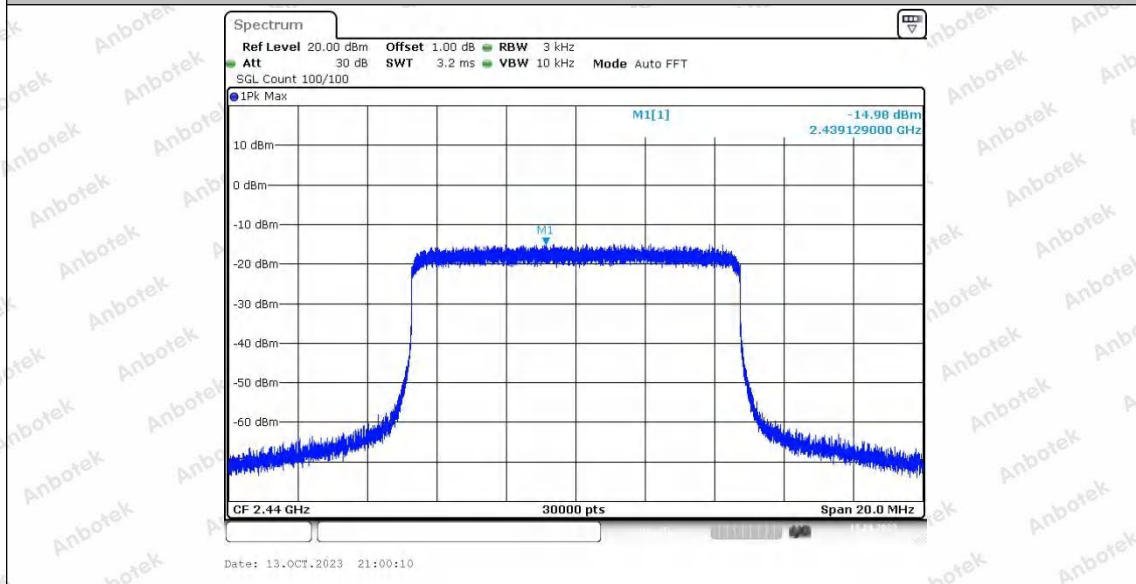
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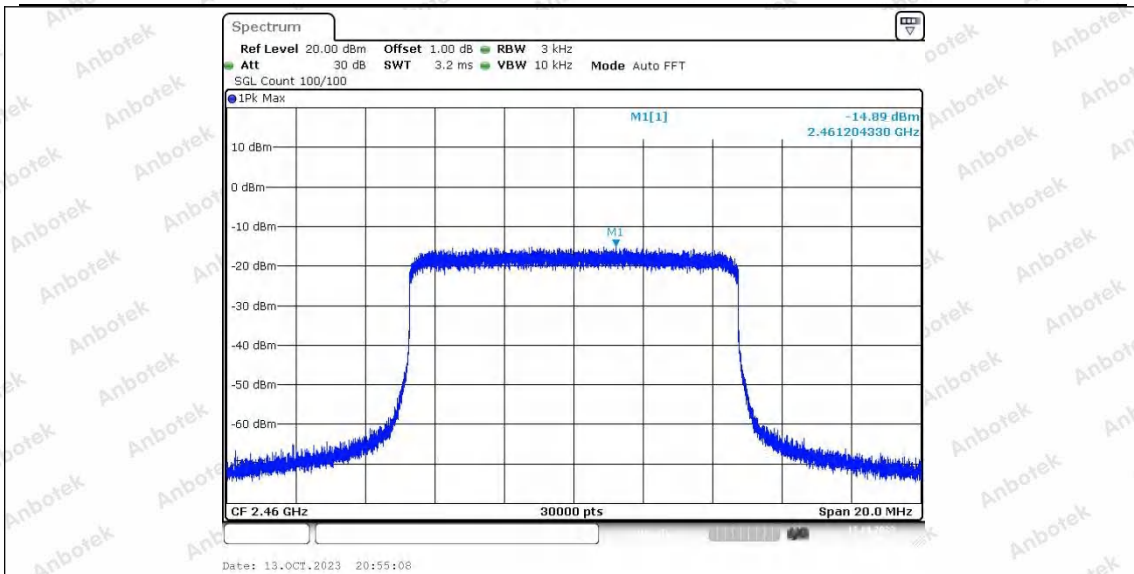
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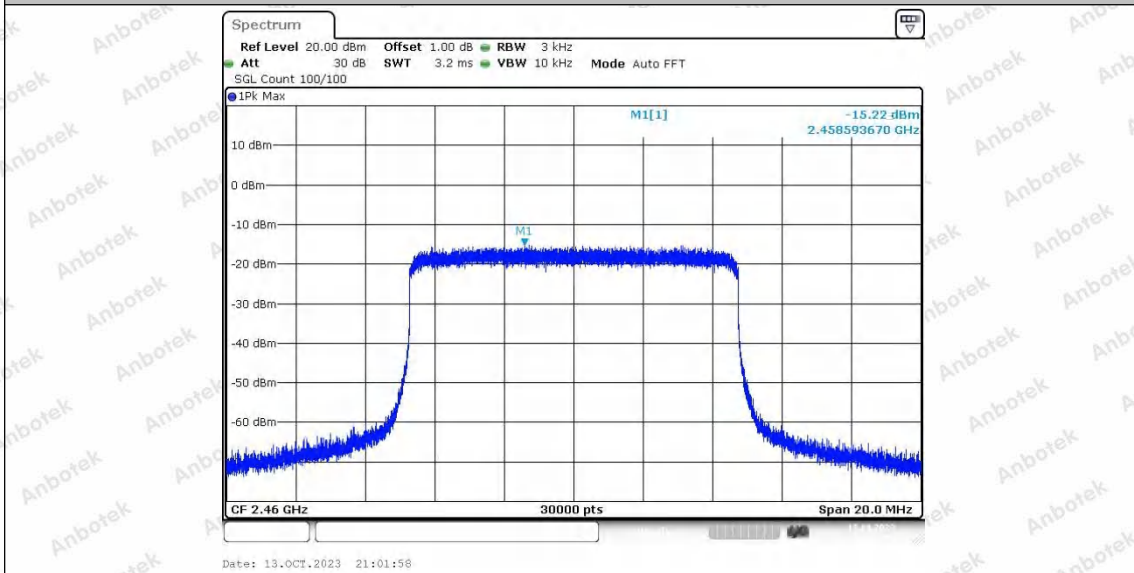
10M\_Ant1\_2460







10M\_Ant2\_2460



20M\_Ant1\_2420

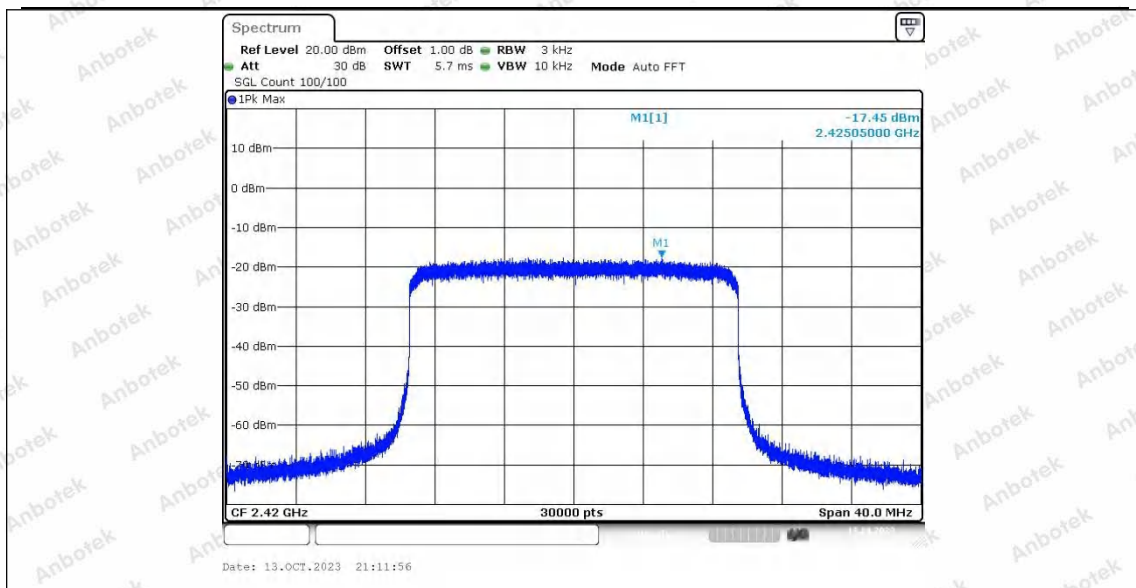
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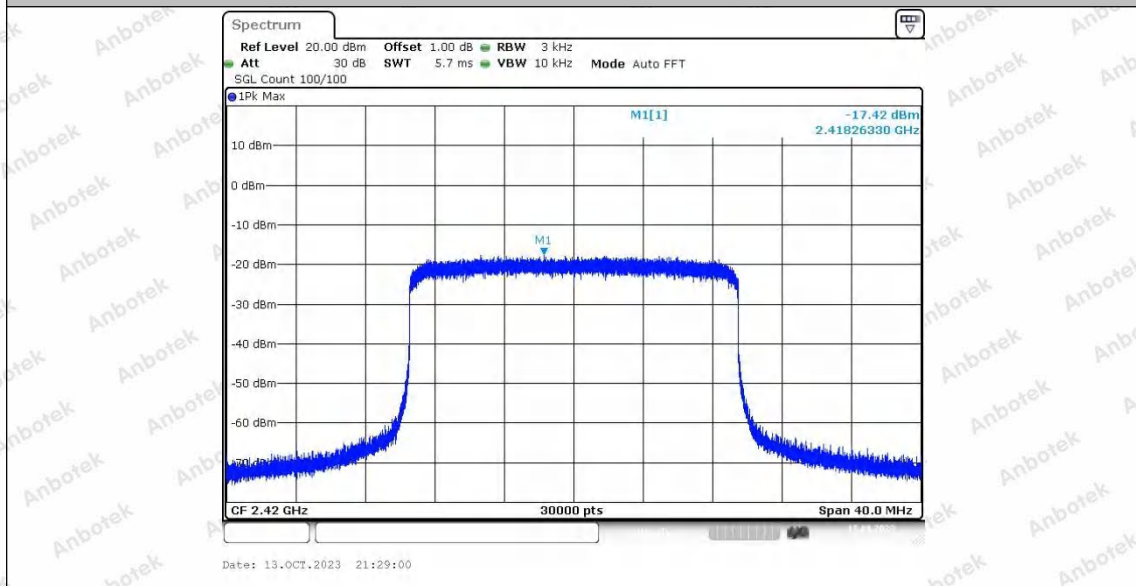


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20M\_Ant2\_2420



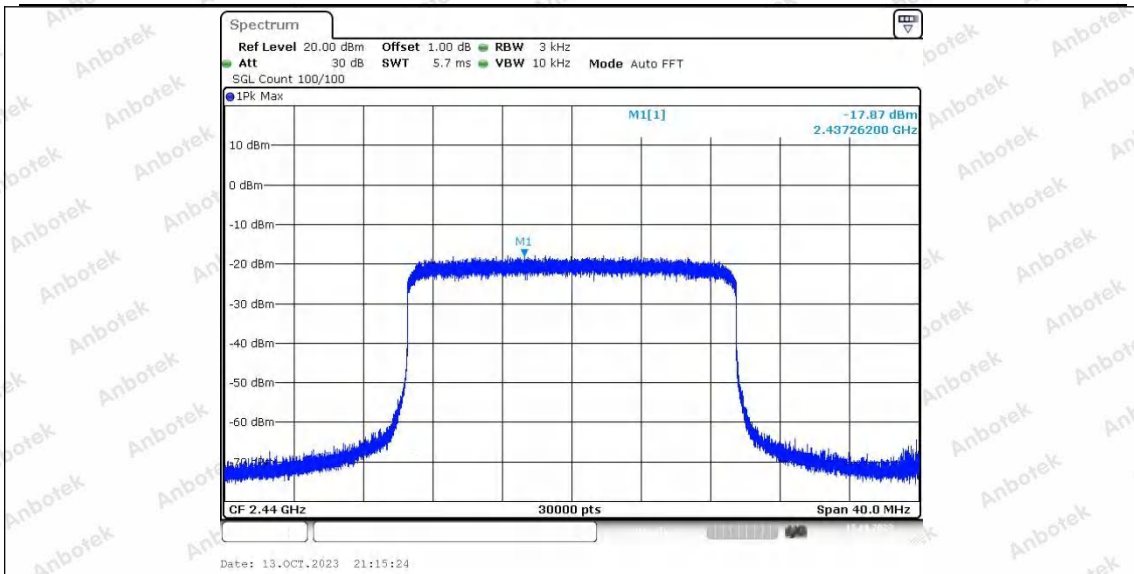
20M\_Ant1\_2440

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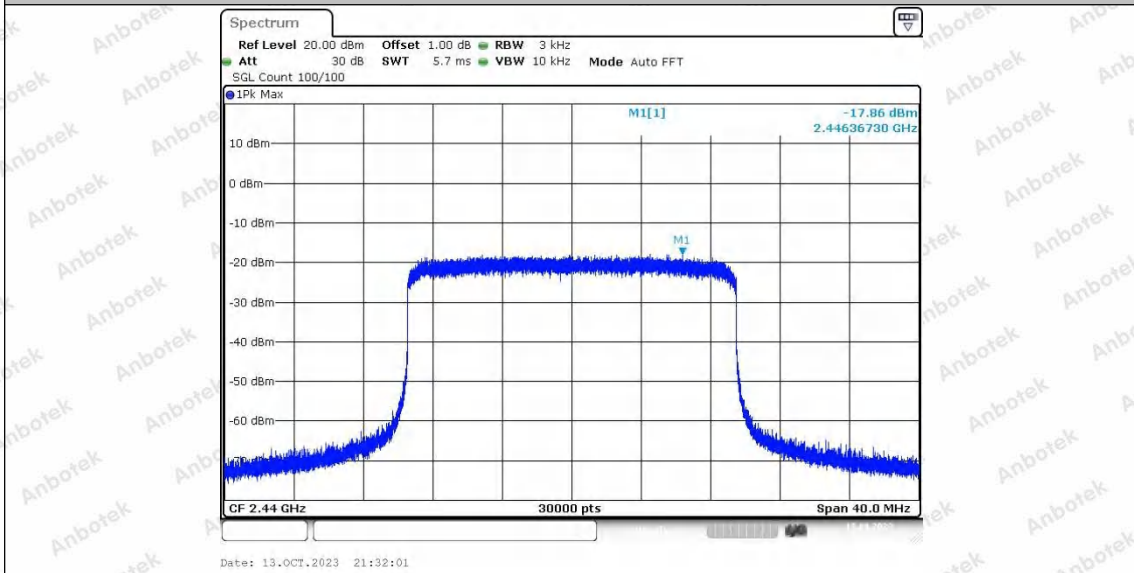
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20M\_Ant2\_2440



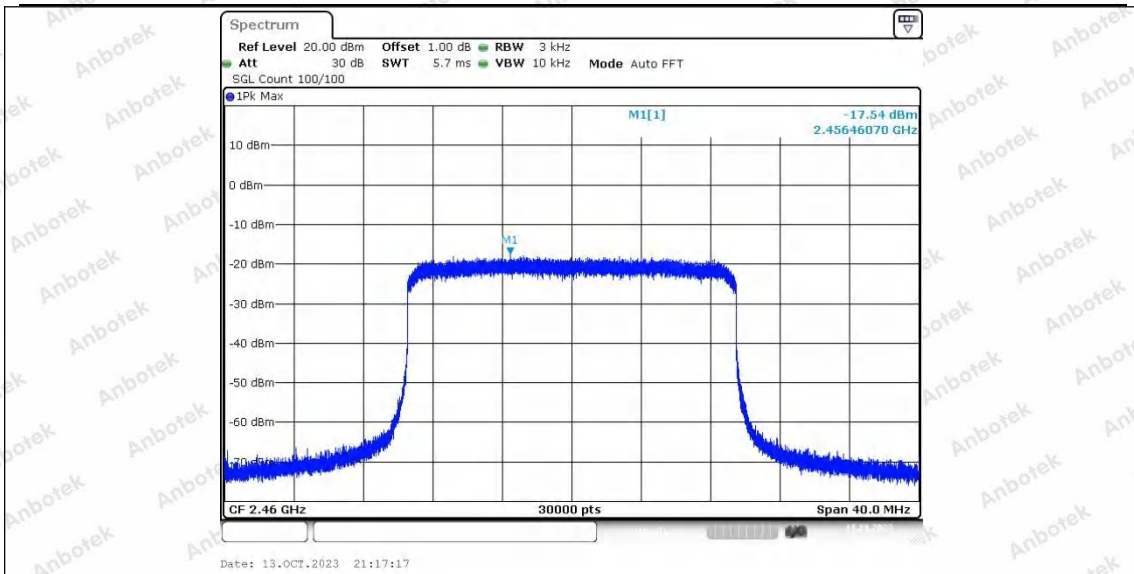
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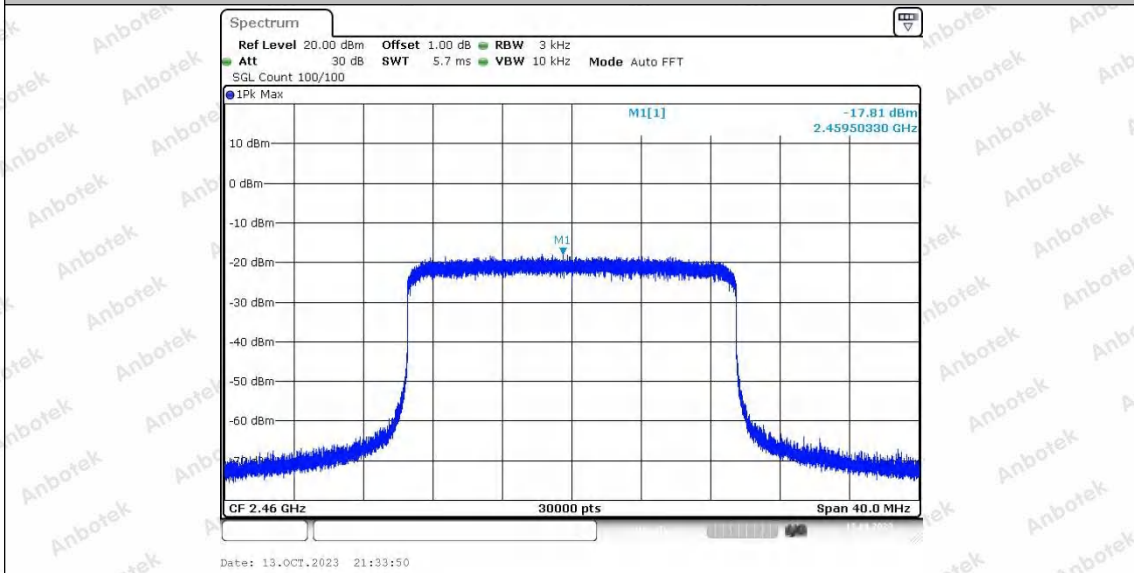
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20M\_Ant2\_2460



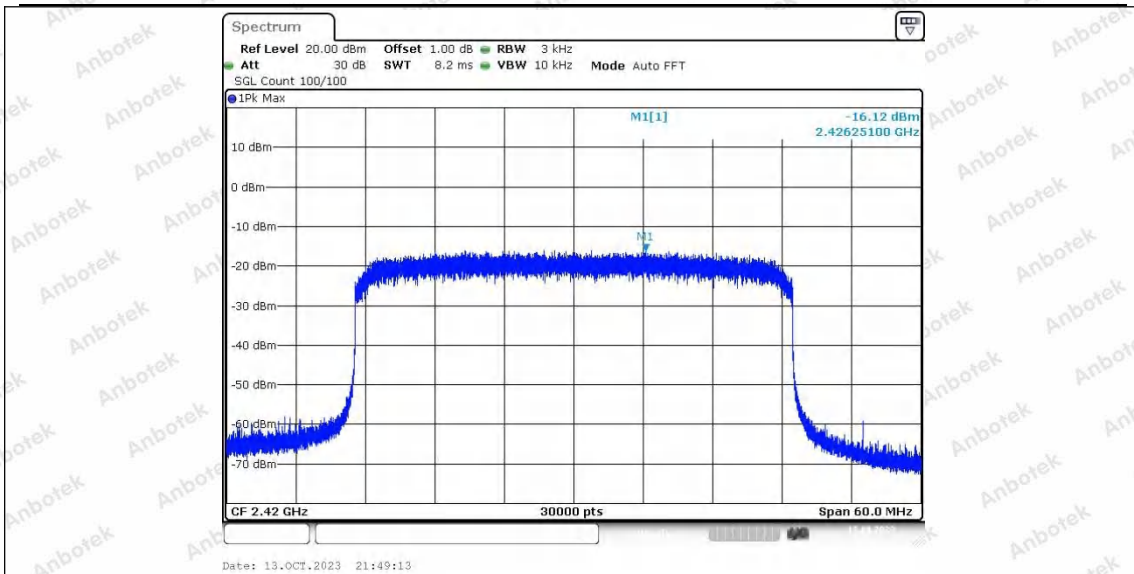
40M\_Ant1\_2420

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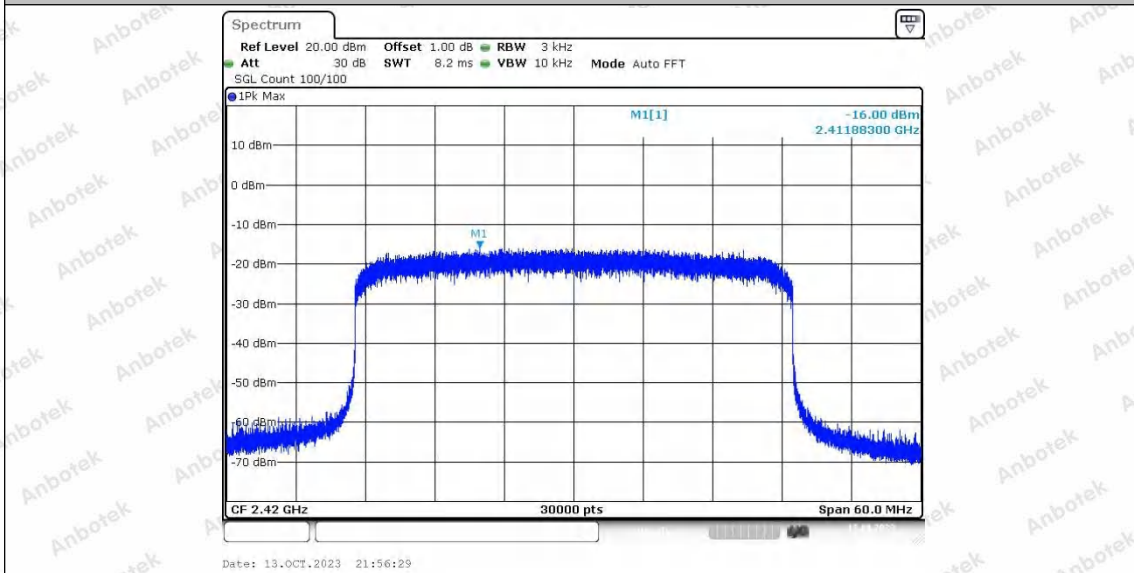
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40M\_Ant2\_2420



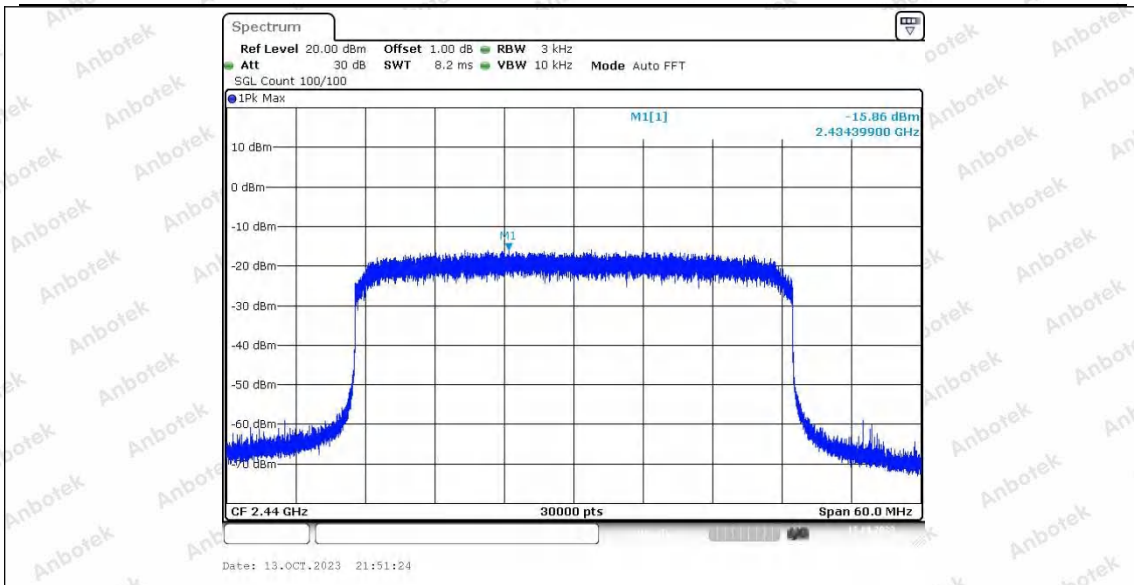
40M\_Ant1\_2440

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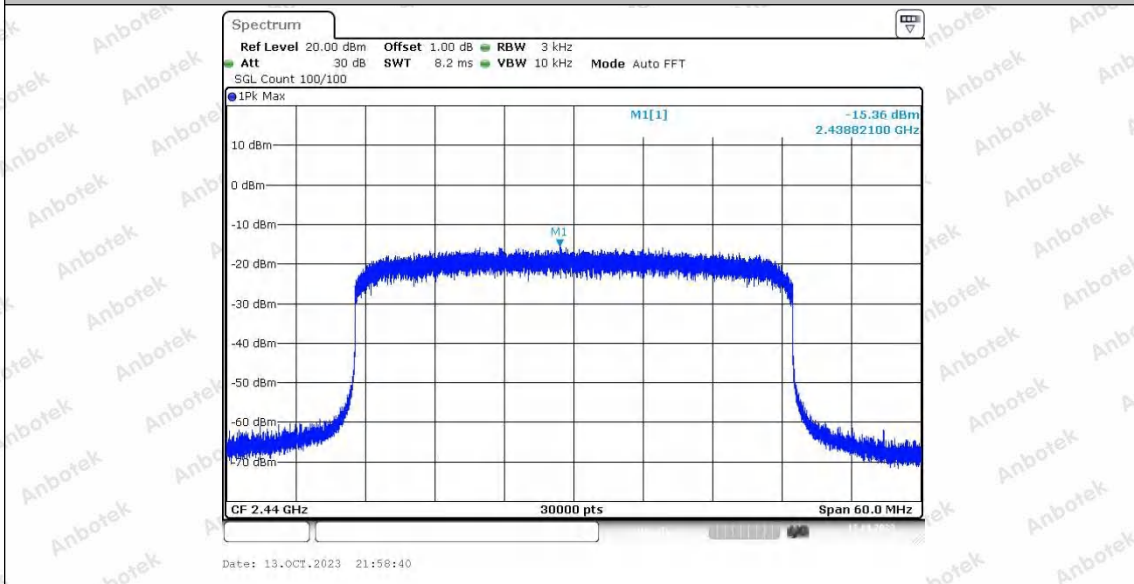
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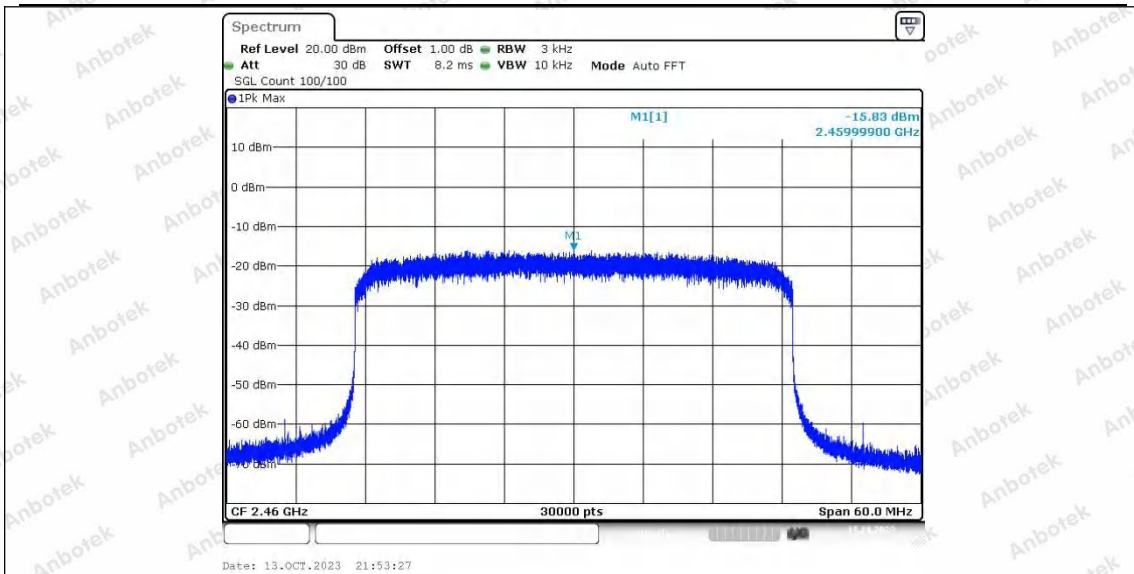


40M\_Ant2\_2440

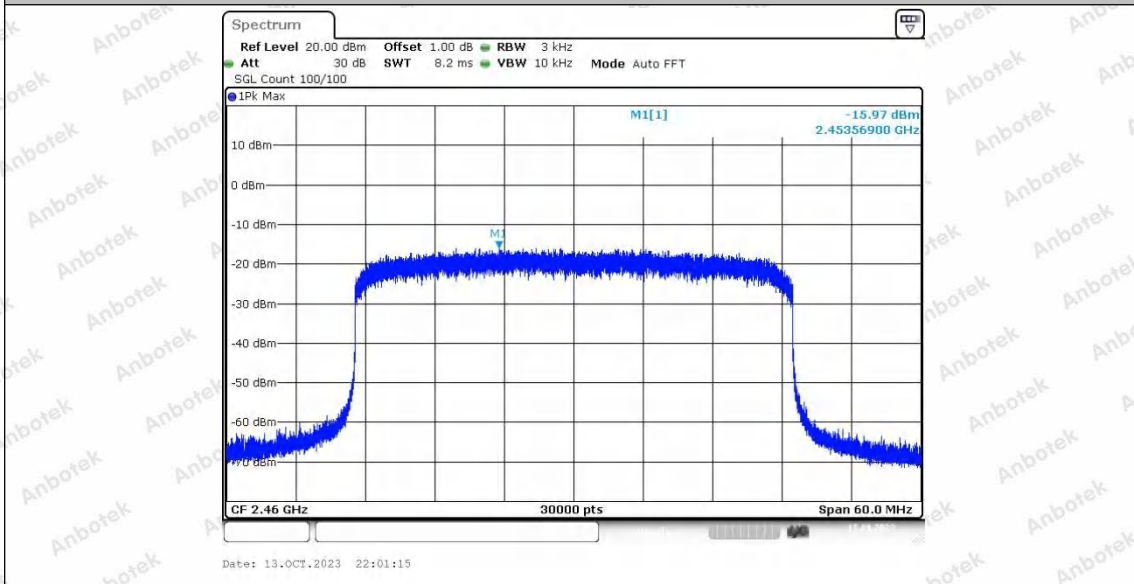


40M\_Ant1\_2460





40M\_Ant2\_2460



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## Appendix E: Band edge measurements

### Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
10M	Ant1	Low	2420	0.81	-55.96	≤-19.19	PASS
	Ant2	Low	2420	1.26	-56.04	≤-18.74	PASS
	Ant1	High	2460	1.86	-55.84	≤-18.14	PASS
	Ant2	High	2460	0.52	-56.65	≤-19.48	PASS
20M	Ant1	Low	2420	-1.82	-55.41	≤-21.82	PASS
	Ant2	Low	2420	-1.67	-56.25	≤-21.67	PASS
	Ant1	High	2460	-2.21	-55.37	≤-22.21	PASS
	Ant2	High	2460	-2.58	-55.7	≤-22.58	PASS
40M	Ant1	Low	2420	-1.67	-41.94	≤-21.67	PASS
	Ant2	Low	2420	-0.71	-42.8	≤-20.71	PASS
	Ant1	High	2460	-1.25	-50.42	≤-21.25	PASS
	Ant2	High	2460	-1.77	-48.65	≤-21.77	PASS

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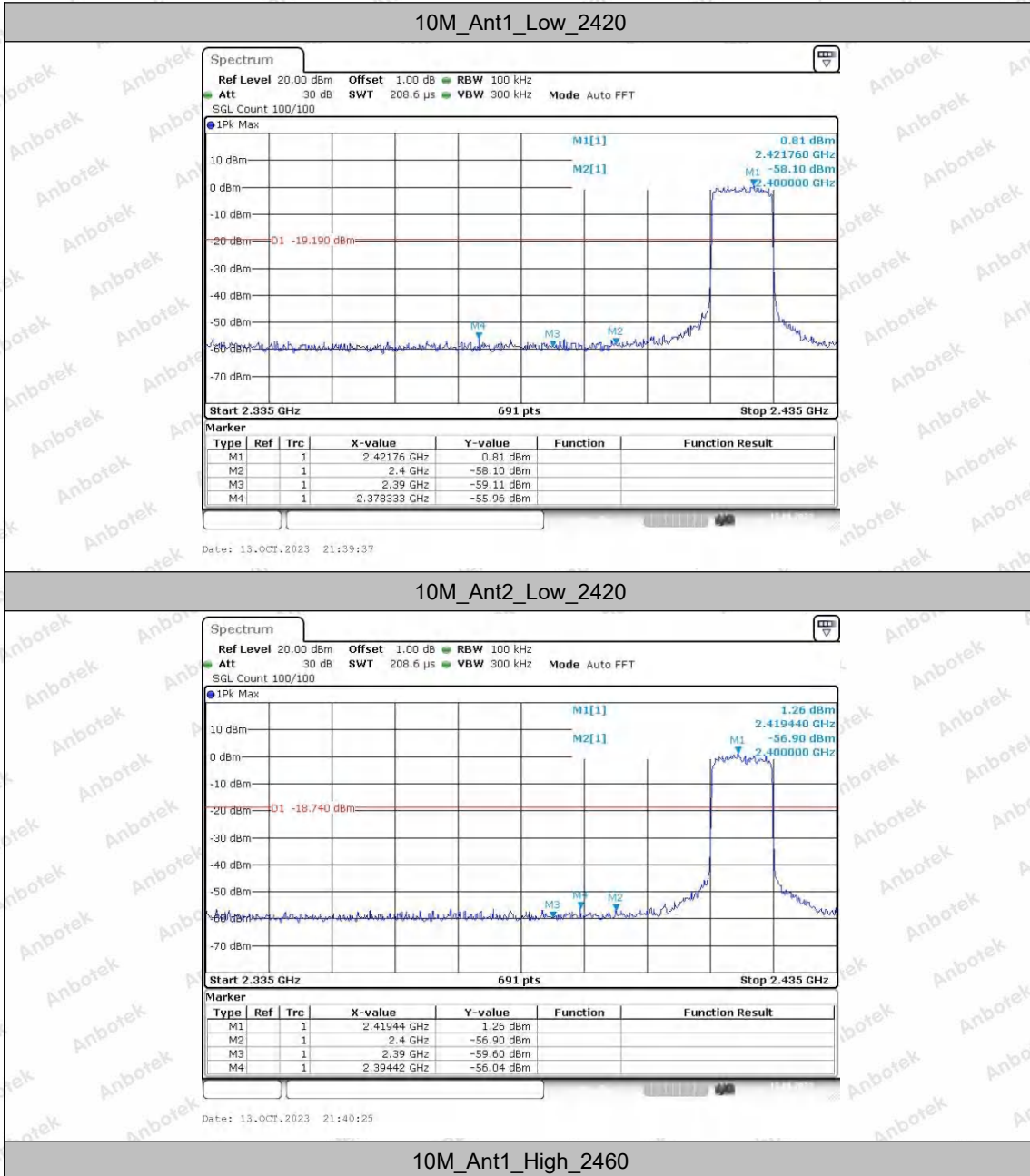


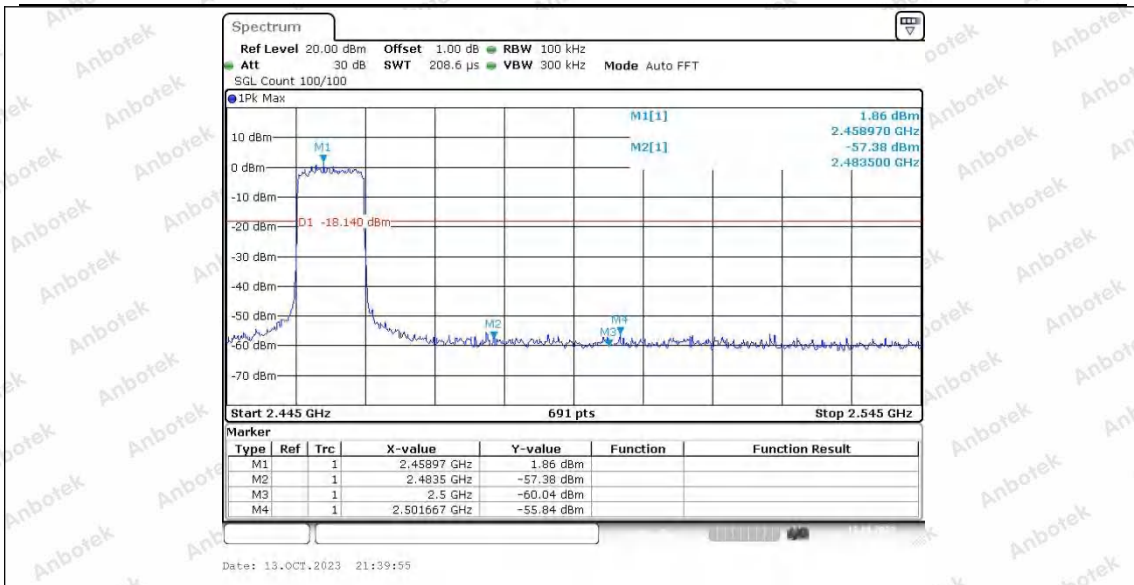
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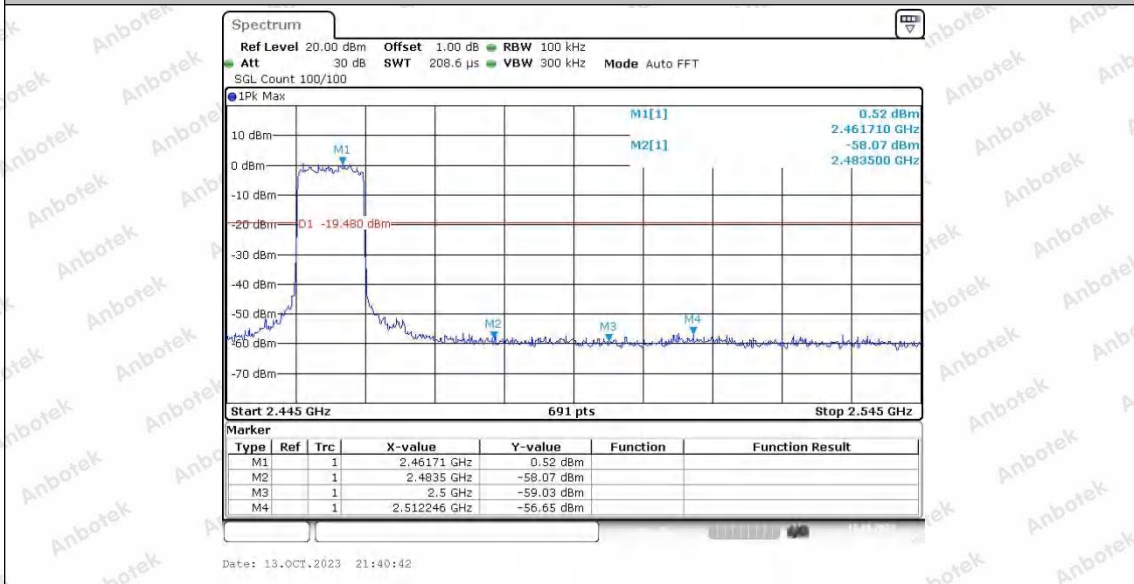


## Test Graphs



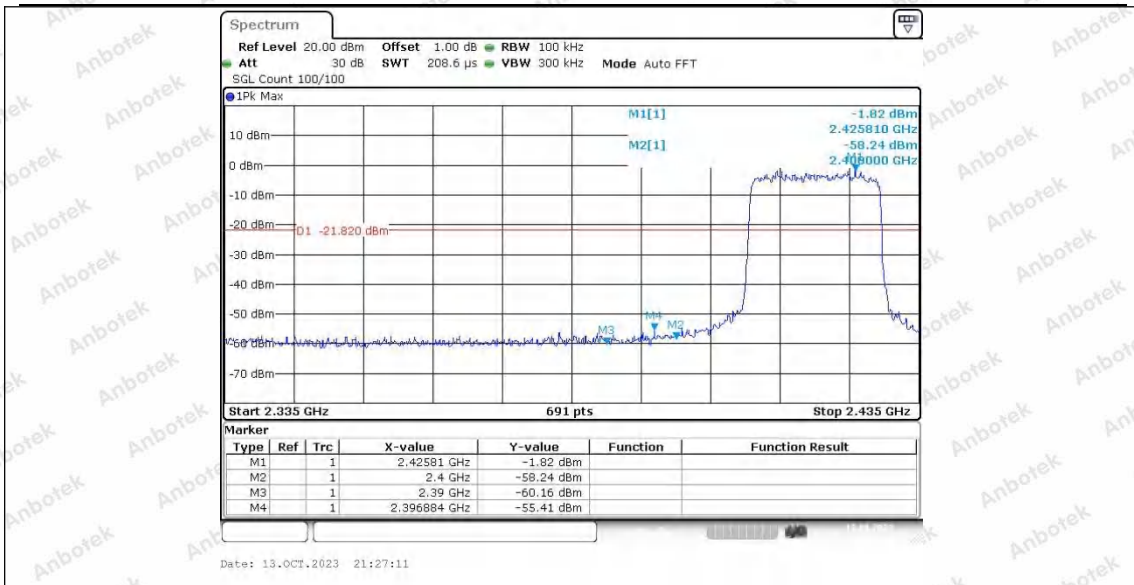


10M\_Ant2\_High\_2460

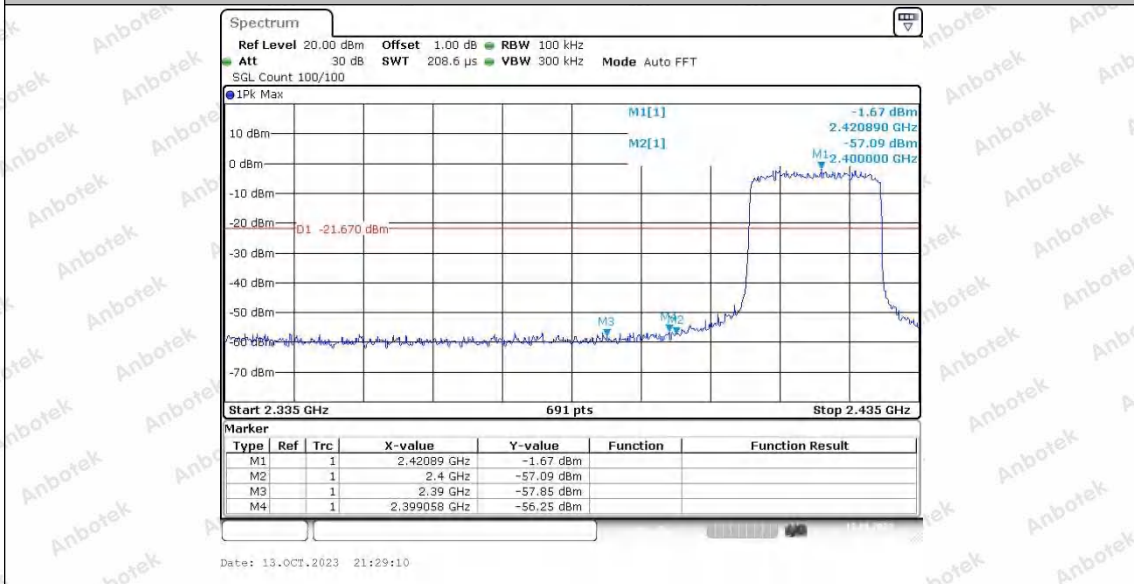


20M\_Ant1\_Low\_2420



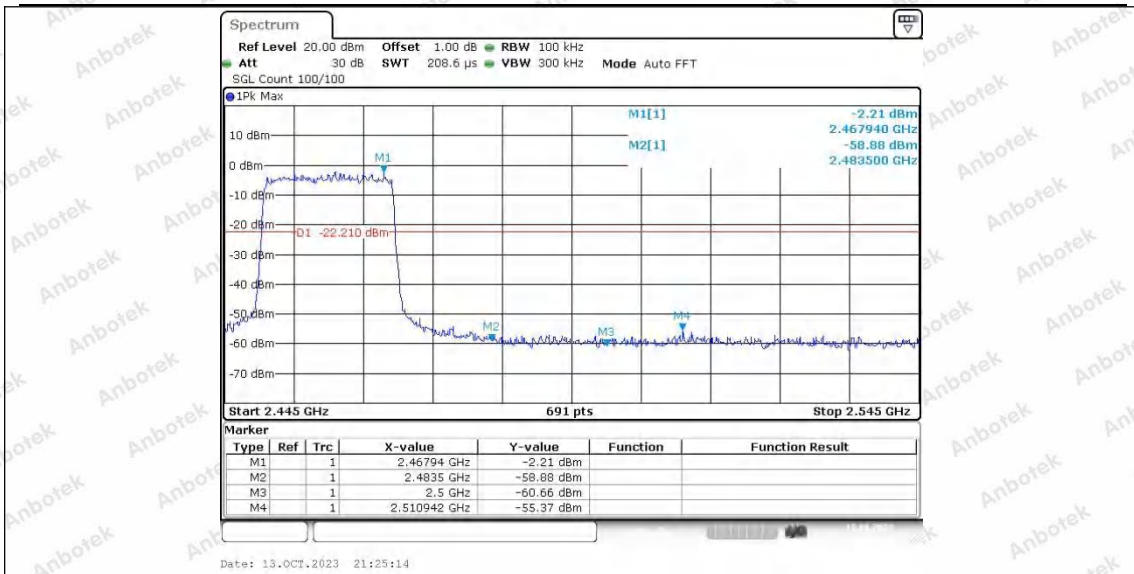


20M\_Ant2\_Low\_2420

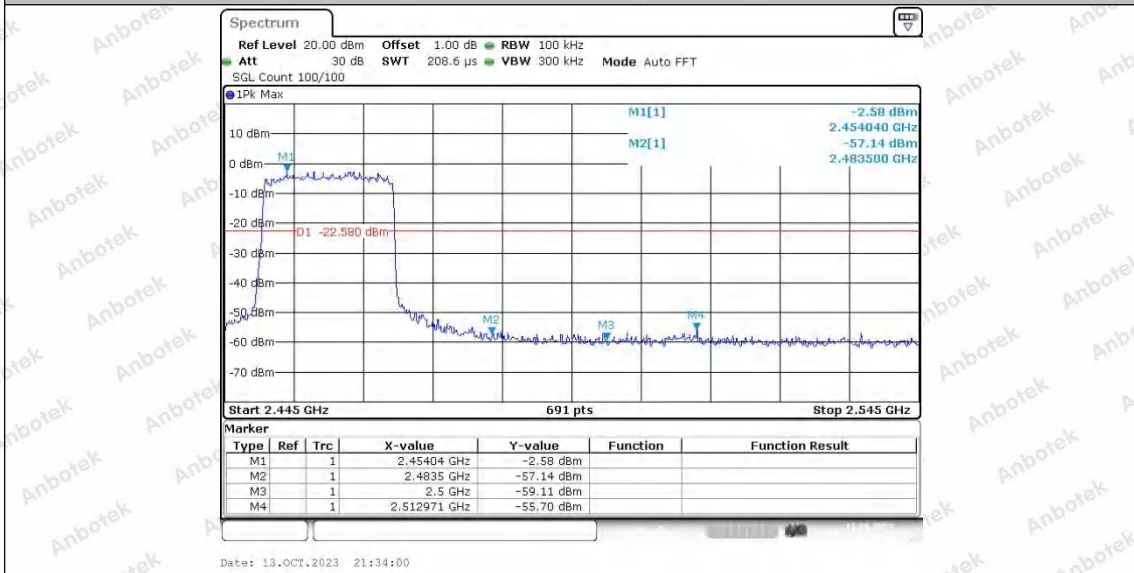


20M\_Ant1\_High\_2460





20M\_Ant2\_High\_2460



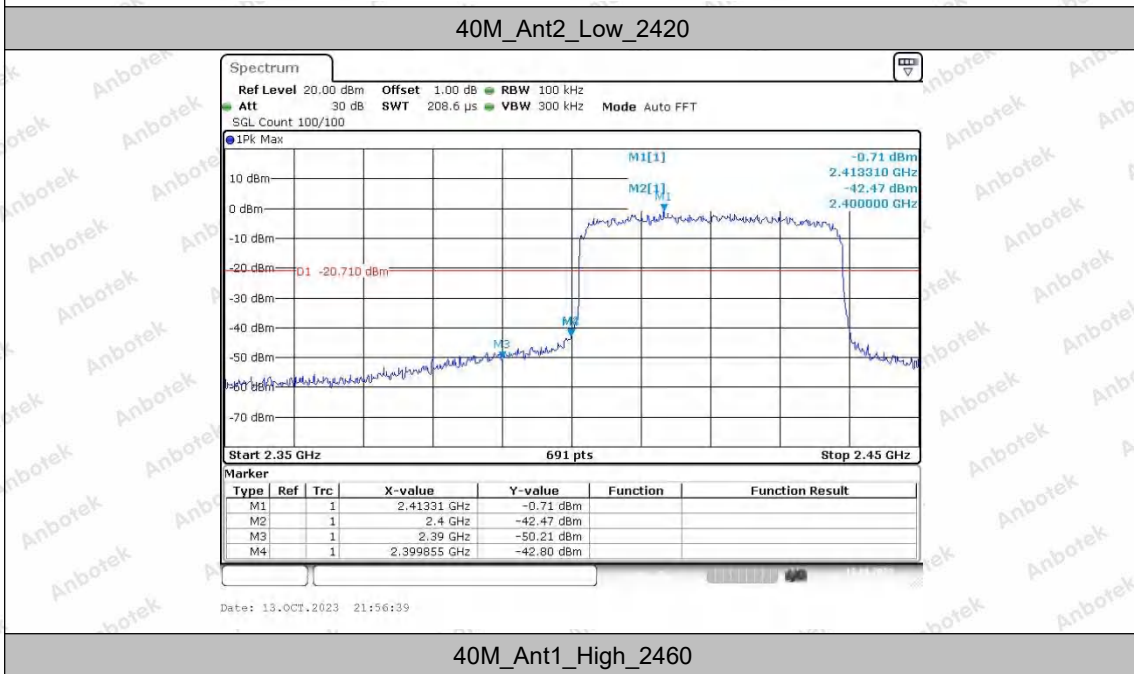
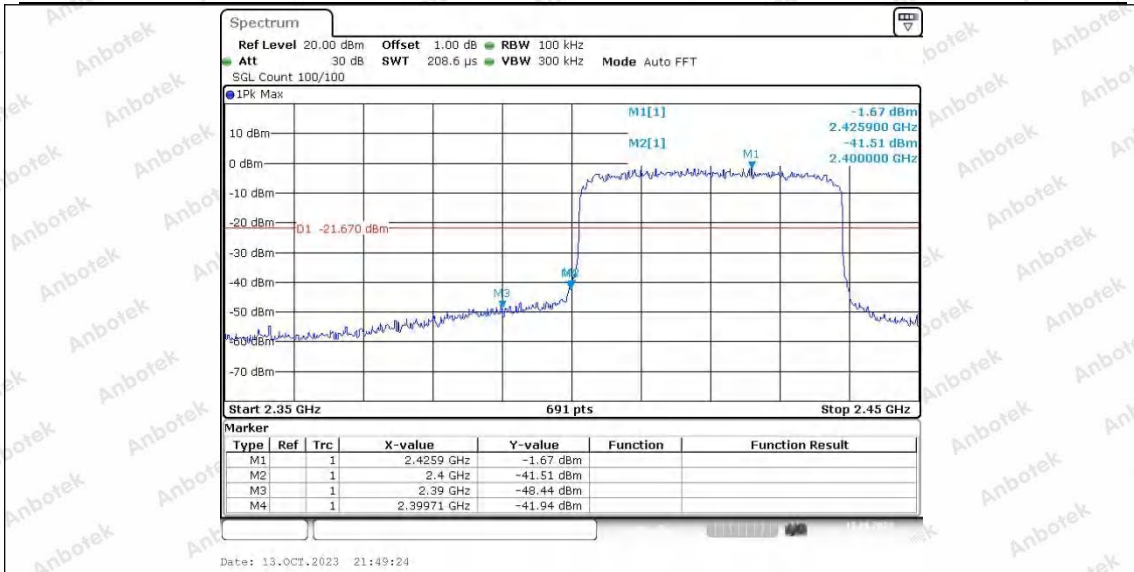
40M\_Ant1\_Low\_2420

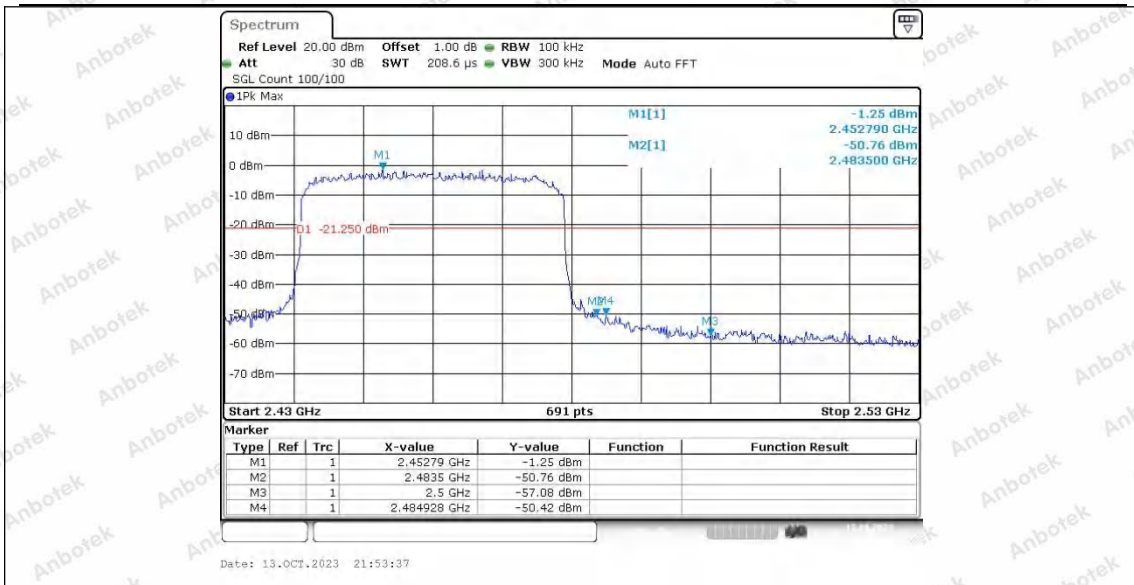
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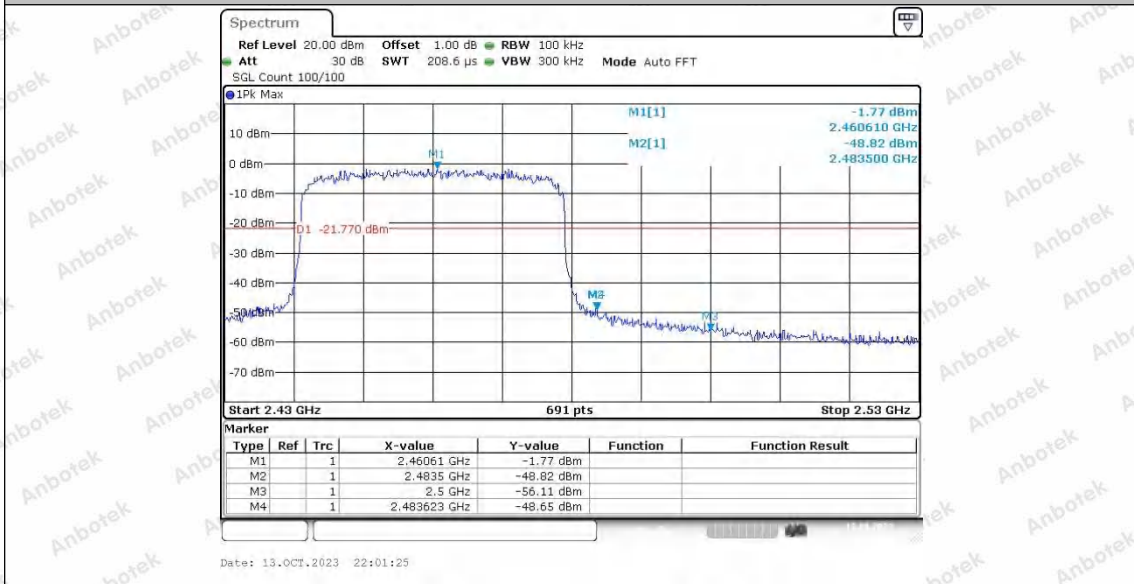
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### 40M\_Ant2\_High\_2460



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## Appendix F: Conducted Spurious Emission

### Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
10M	Ant1	2420	Reference	2.03	2.03	---	PASS
			30~1000	2.03	-68.52	≤-17.97	PASS
			1000~26500	2.03	-46.86	≤-17.97	PASS
	Ant2	2420	Reference	1.50	1.50	---	PASS
			30~1000	1.50	-68.51	≤-18.5	PASS
			1000~26500	1.50	-48.36	≤-18.5	PASS
	Ant1	2440	Reference	1.57	1.57	---	PASS
			30~1000	1.57	-68.56	≤-18.43	PASS
			1000~26500	1.57	-47.83	≤-18.43	PASS
	Ant2	2440	Reference	2.62	2.62	---	PASS
			30~1000	2.62	-68.62	≤-17.38	PASS
			1000~26500	2.62	-50.46	≤-17.38	PASS
	Ant1	2460	Reference	1.74	1.74	---	PASS
			30~1000	1.74	-68.69	≤-18.26	PASS
			1000~26500	1.74	-48.94	≤-18.26	PASS
	Ant2	2460	Reference	2.39	2.39	---	PASS
			30~1000	2.39	-67.98	≤-17.61	PASS
			1000~26500	2.39	-51.25	≤-17.61	PASS
20M	Ant1	2420	Reference	-1.71	-1.71	---	PASS
			30~1000	-1.71	-69.29	≤-21.71	PASS
			1000~26500	-1.71	-47.38	≤-21.71	PASS
	Ant2	2420	Reference	-0.31	-0.31	---	PASS
			30~1000	-0.31	-67.98	≤-20.31	PASS
			1000~26500	-0.31	-54.85	≤-20.31	PASS
	Ant1	2440	Reference	-1.50	-1.50	---	PASS
			30~1000	-1.50	-68.12	≤-21.5	PASS
			1000~26500	-1.50	-48.52	≤-21.5	PASS



	Ant2	2440	0					
			Reference	-1.47	-1.47	---	PASS	
			30~1000	-1.47	-68.73	≤-21.47	PASS	
	Ant1	2460	1000~2650	-1.47	-54	≤-21.47	PASS	
			0					
			Reference	-1.76	-1.76	---	PASS	
	Ant2	2460	30~1000	-1.76	-68.06	≤-21.76	PASS	
			1000~2650	-1.76	-49.36	≤-21.76	PASS	
			0					
	40M	Ant1	2420	Reference	-2.34	-2.34	---	PASS
				30~1000	-2.34	-68.58	≤-22.34	PASS
				1000~2650	-2.34	-54.45	≤-22.34	PASS
Ant2		2420	0					
			Reference	-1.37	-1.37	---	PASS	
			30~1000	-1.37	-67.97	≤-21.37	PASS	
Ant1		2440	1000~2650	-1.37	-46.43	≤-21.37	PASS	
			0					
			Reference	-1.55	-1.55	---	PASS	
Ant2		2440	30~1000	-1.55	-68.05	≤-21.55	PASS	
			1000~2650	-1.55	-49.33	≤-21.55	PASS	
			0					
Ant1	2460	Reference	-0.57	-0.57	---	PASS		
		30~1000	-0.57	-68.24	≤-20.57	PASS		
		1000~2650	-0.57	-47.83	≤-20.57	PASS		
Ant2	2440	0						
		Reference	-1.56	-1.56	---	PASS		
		30~1000	-1.56	-68.15	≤-21.56	PASS		
Ant1	2460	1000~2650	-1.56	-49.77	≤-21.56	PASS		
		0						
		Reference	-1.15	-1.15	---	PASS		
Ant2	2460	30~1000	-1.15	-68.12	≤-21.15	PASS		
		1000~2650	-1.15	-47.9	≤-21.15	PASS		
		0						
Ant1	2440	Reference	-1.45	-1.45	---	PASS		
		30~1000	-1.45	-68.04	≤-21.45	PASS		
		1000~2650	-1.45	-50.68	≤-21.45	PASS		
Ant2	2460	0						

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## Test Graphs

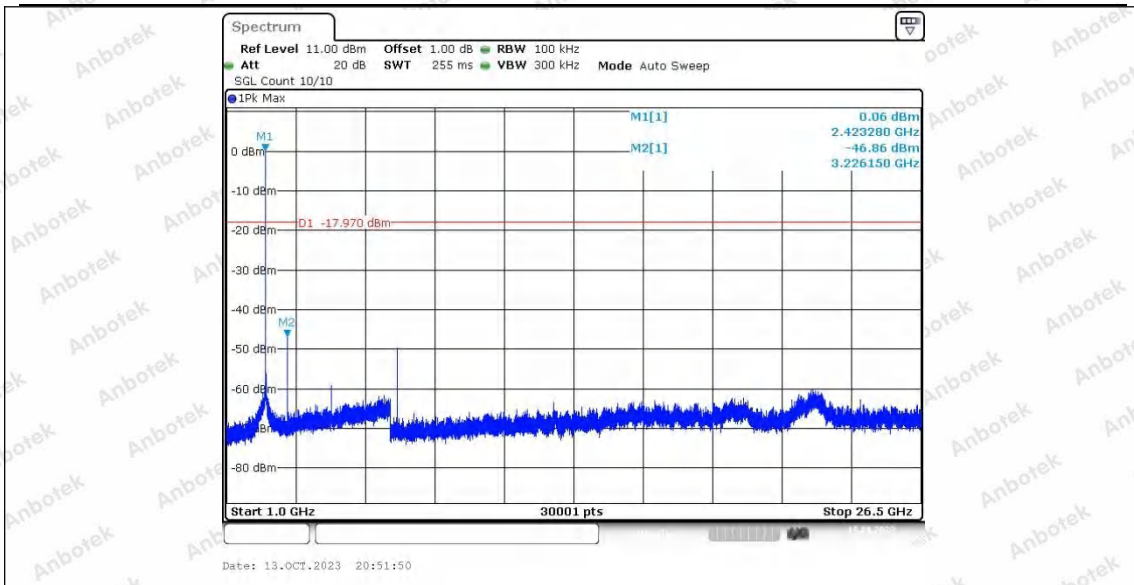


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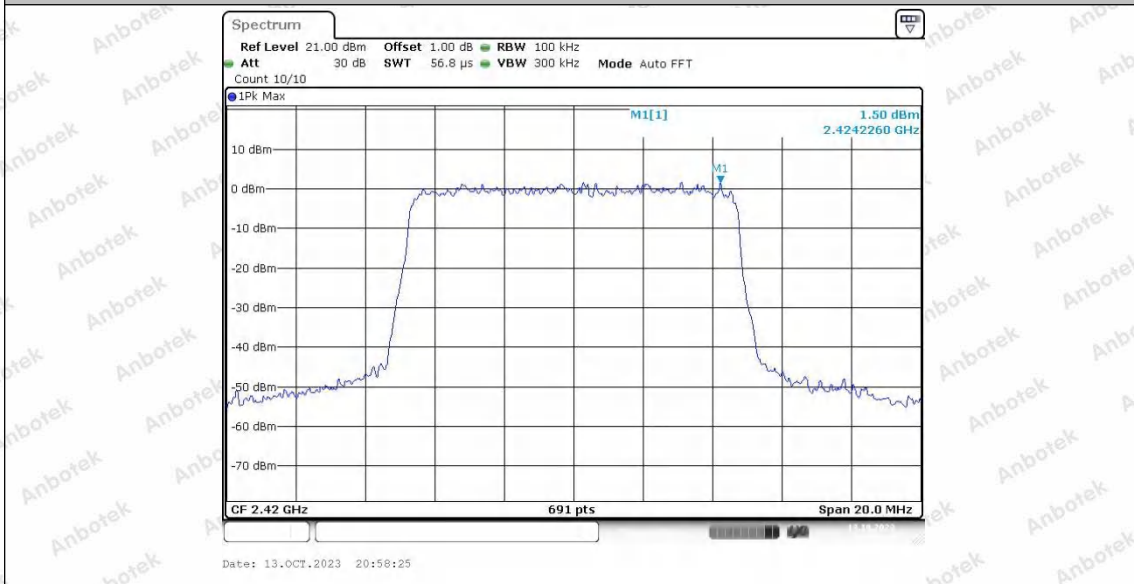
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10M\_Ant2\_2420\_0~Reference



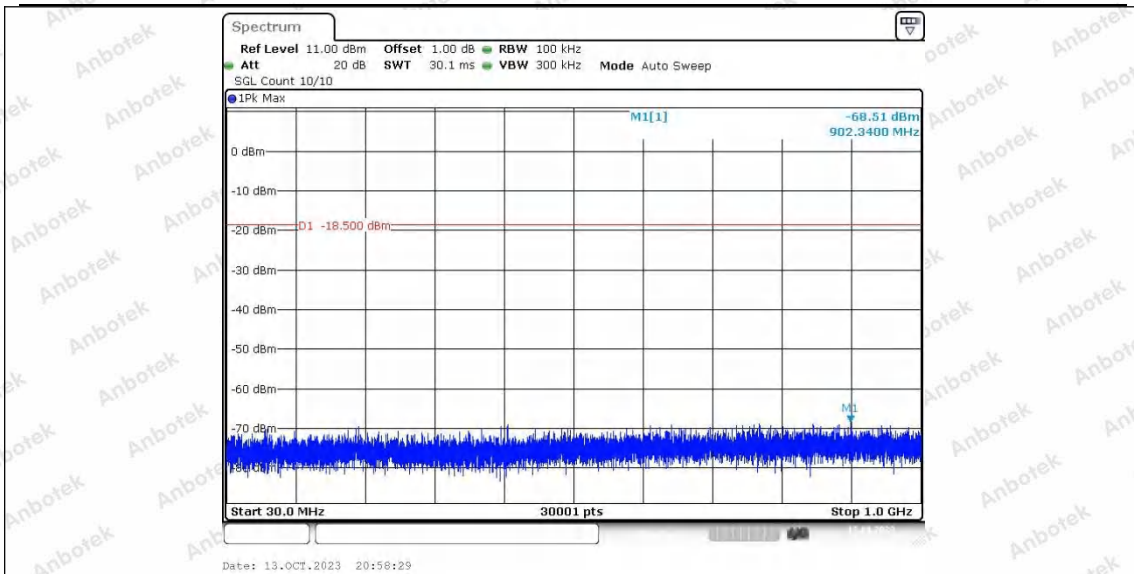
10M\_Ant2\_2420\_30~1000

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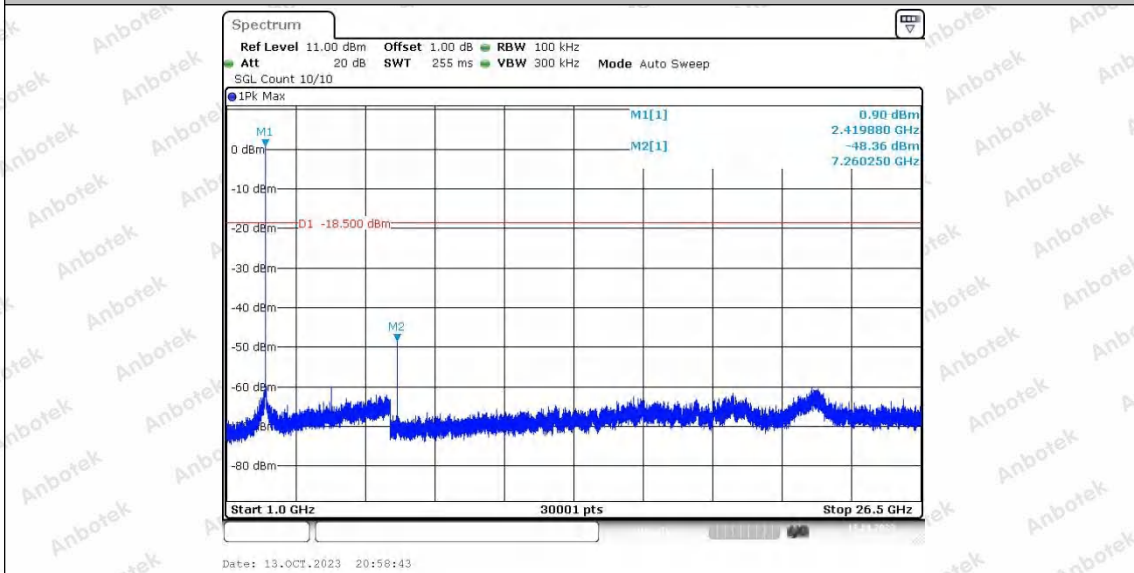
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10M\_Ant2\_2420\_1000~26500



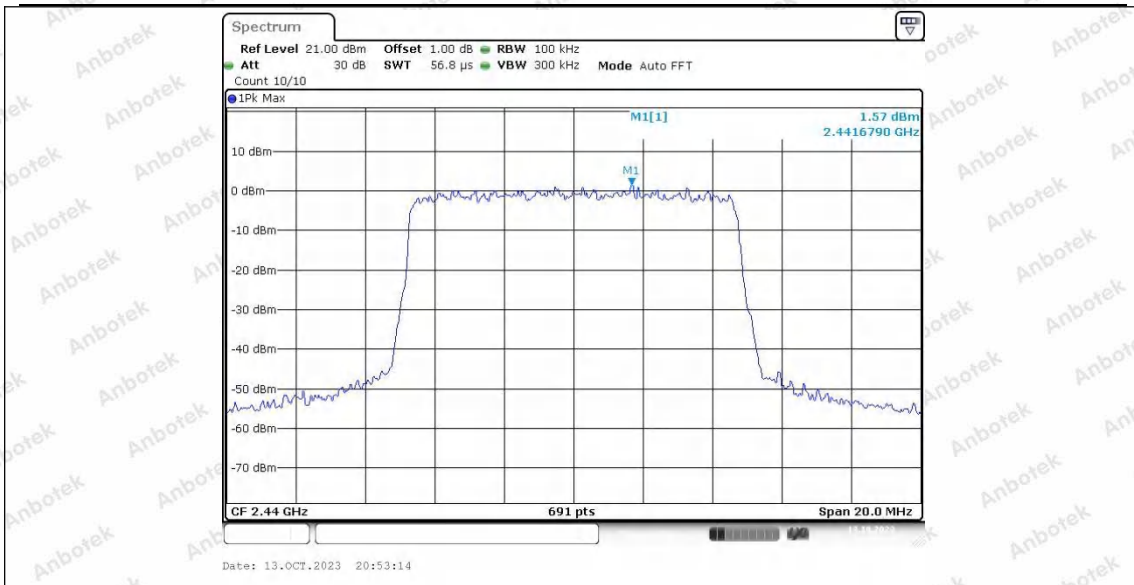
10M\_Ant1\_2440\_0~Reference

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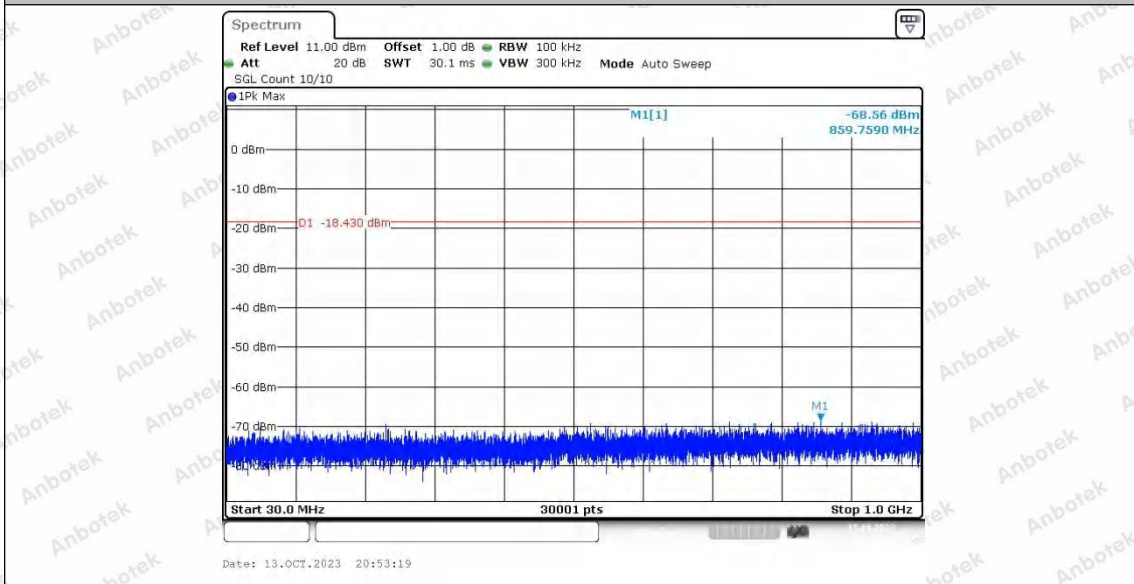
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10M\_Ant1\_2440\_30~1000



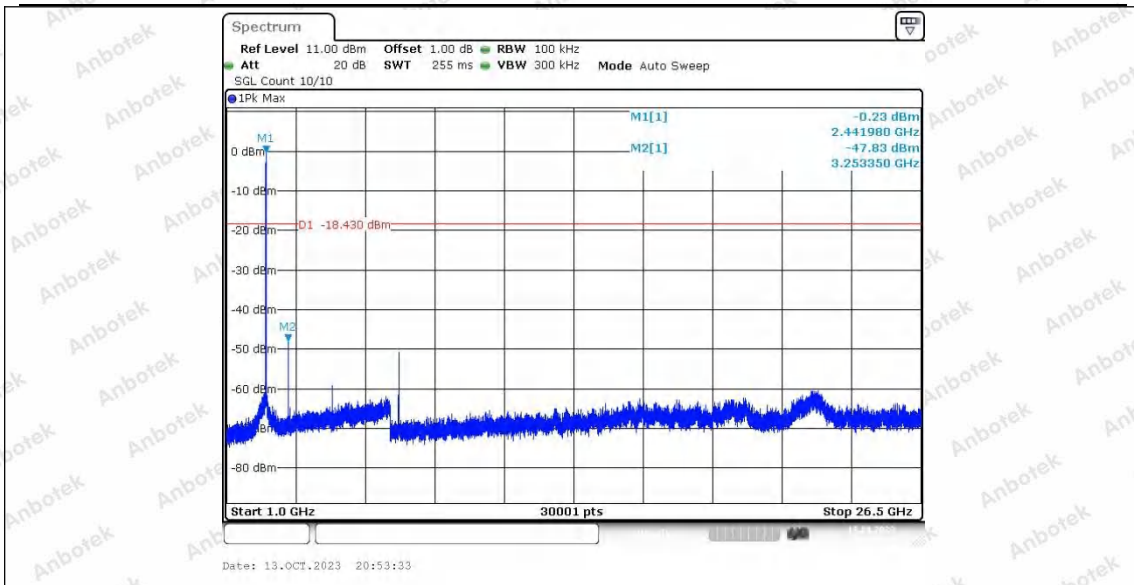
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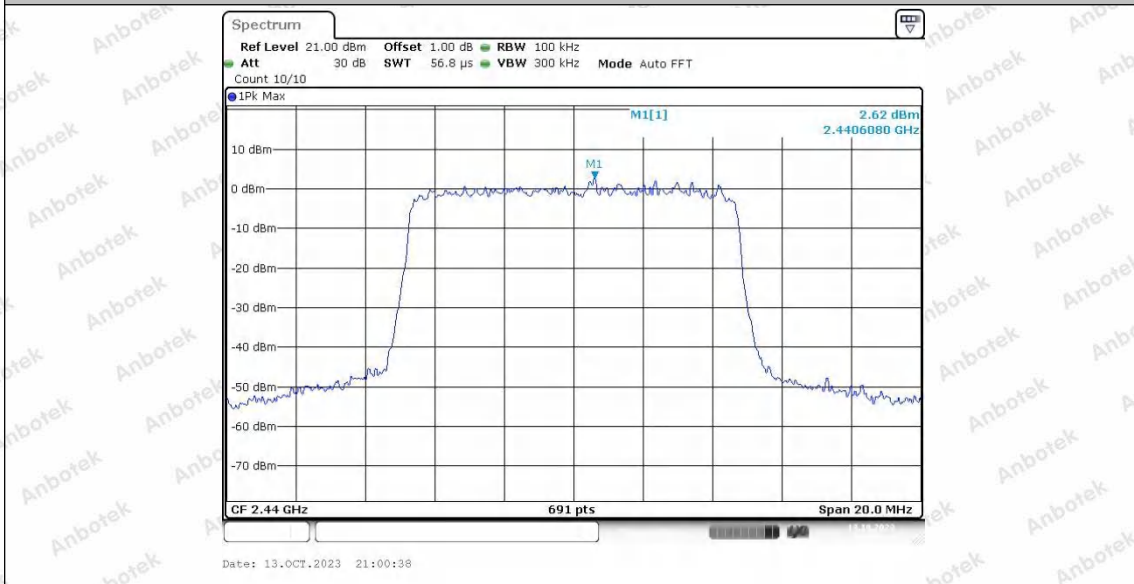
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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10M\_Ant2\_2440\_0~Reference



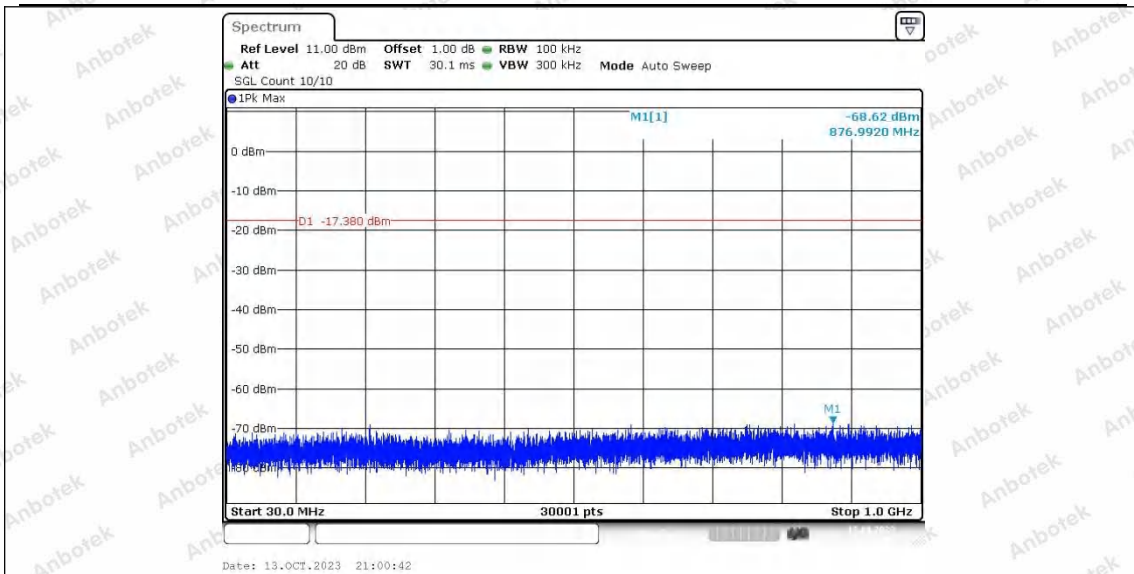
10M\_Ant2\_2440\_30~1000

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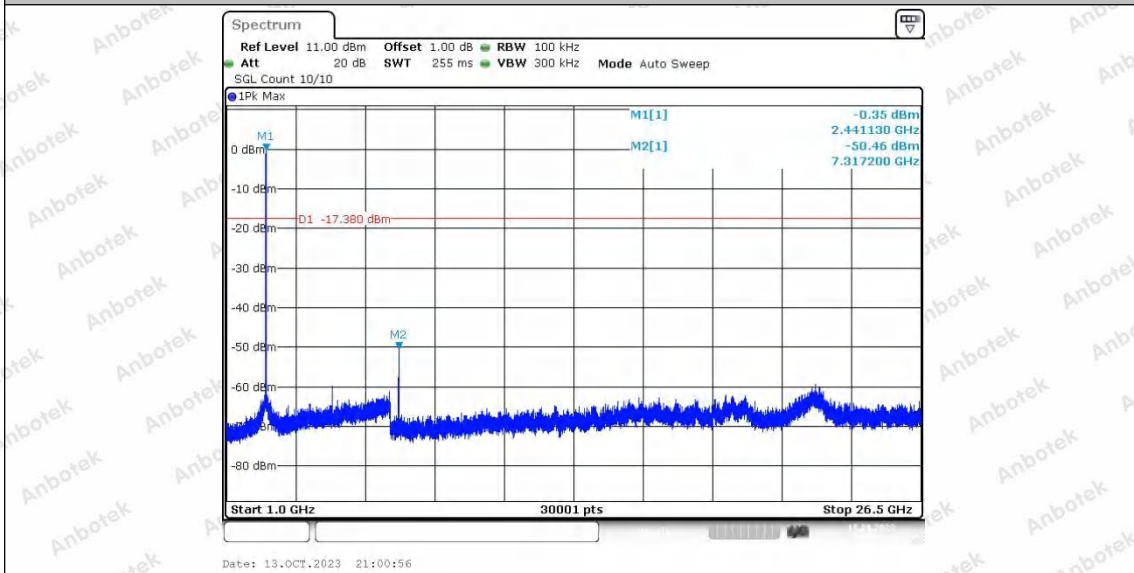
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10M\_Ant2\_2440\_1000~26500



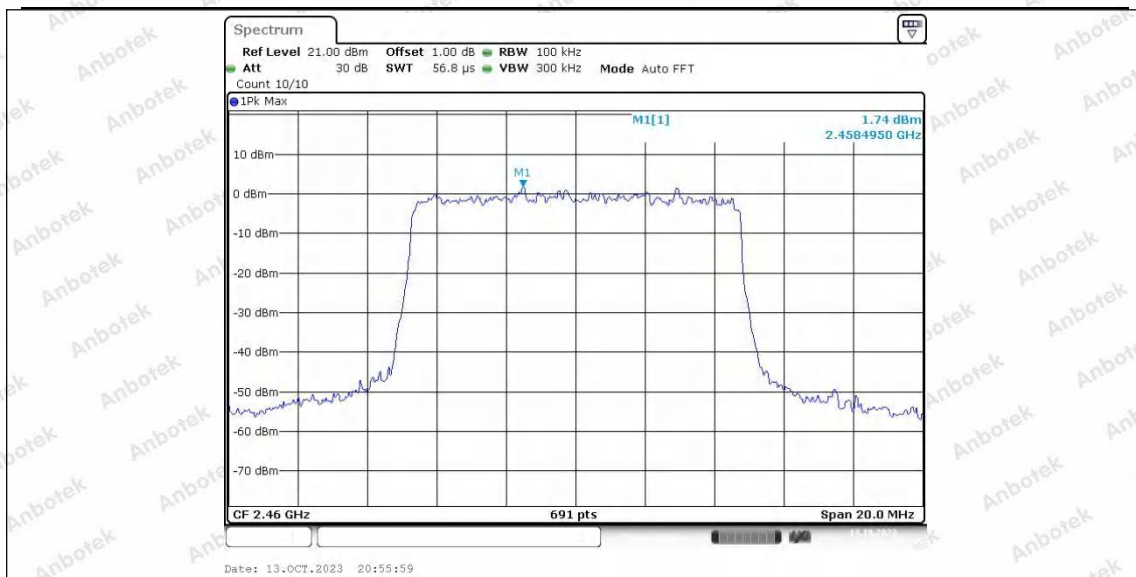
10M\_Ant1\_2460\_0~Reference

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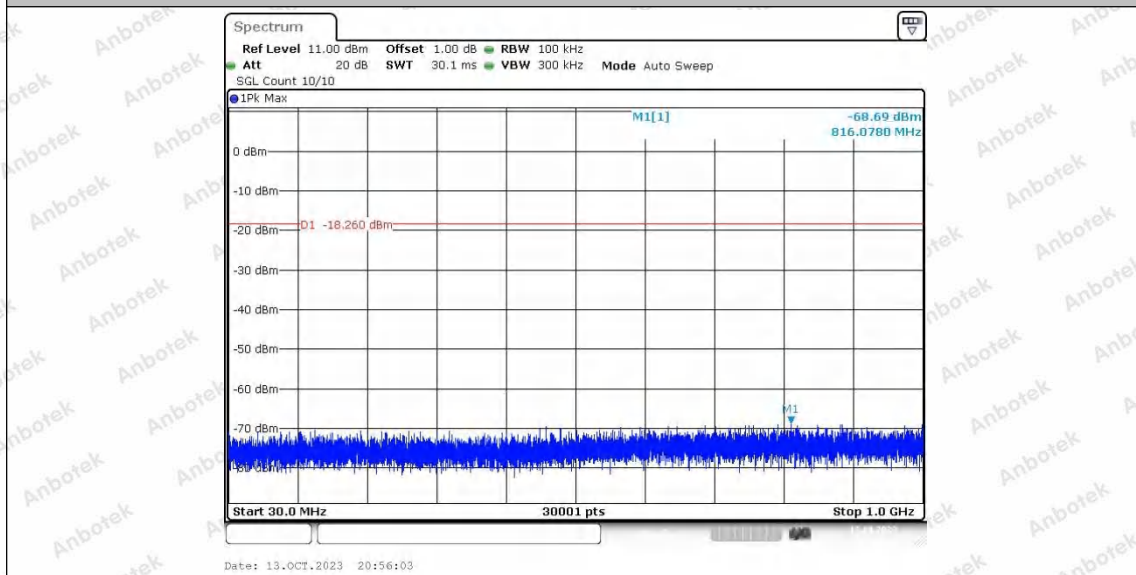
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10M\_Ant1\_2460\_30~1000



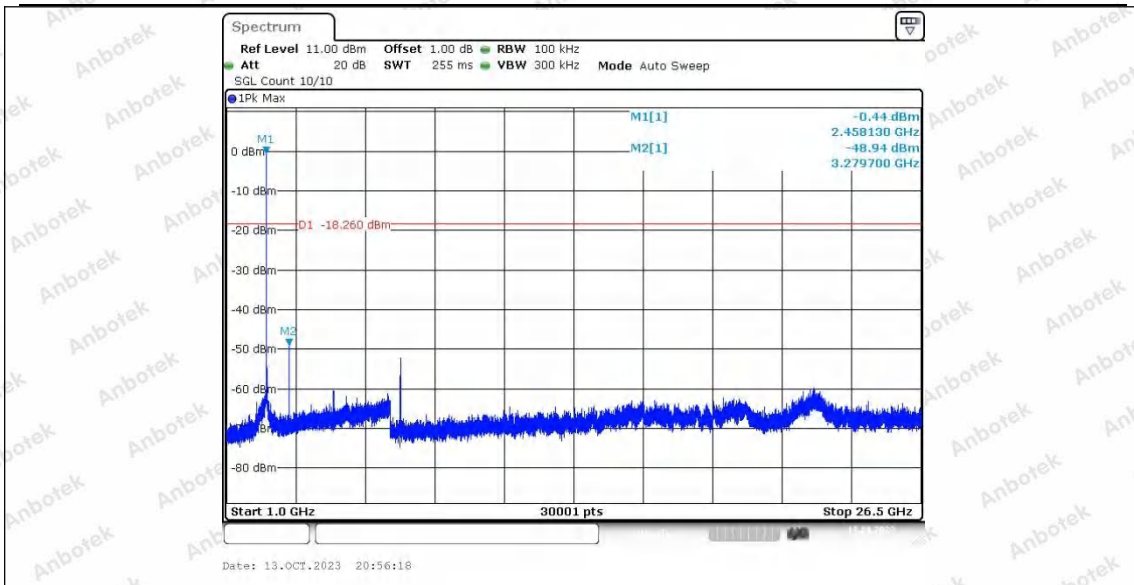
10M\_Ant1\_2460\_1000~26500

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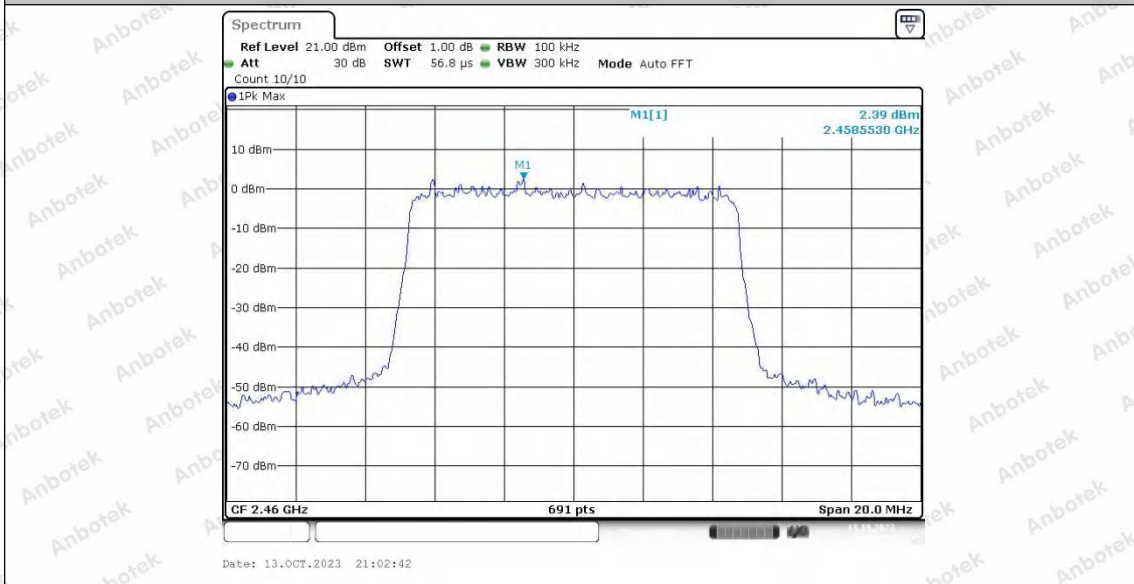
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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10M\_Ant2\_2460\_0~Reference



10M\_Ant2\_2460\_30~1000

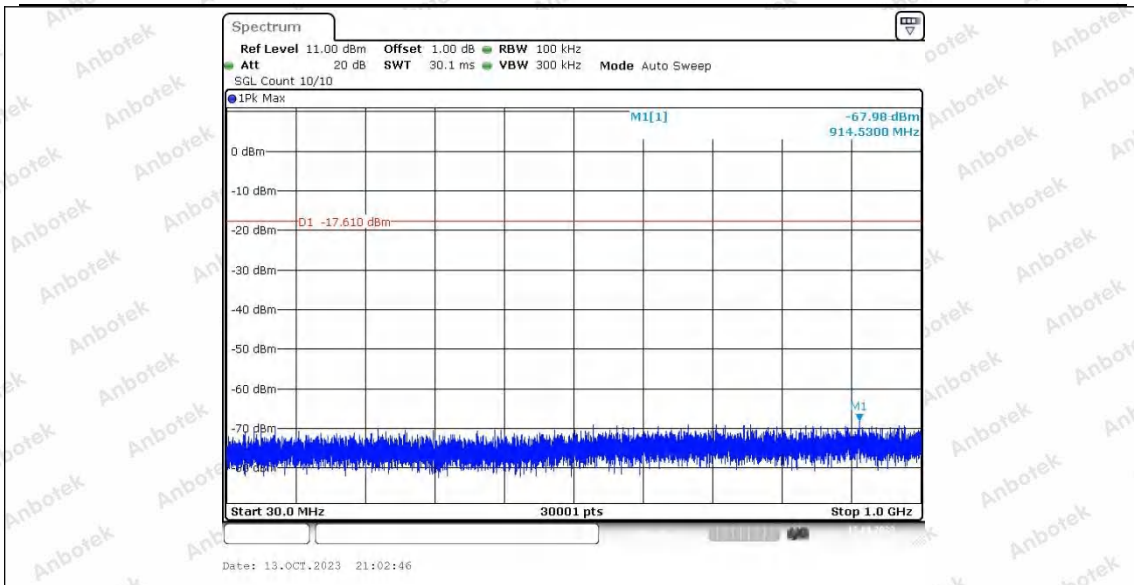
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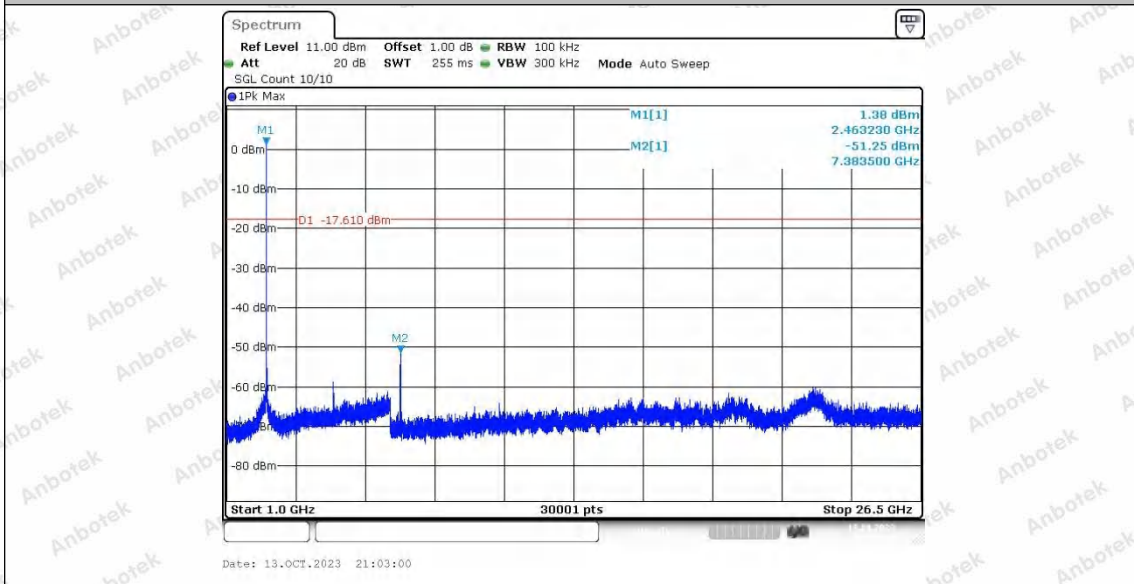
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10M\_Ant2\_2460\_1000~26500

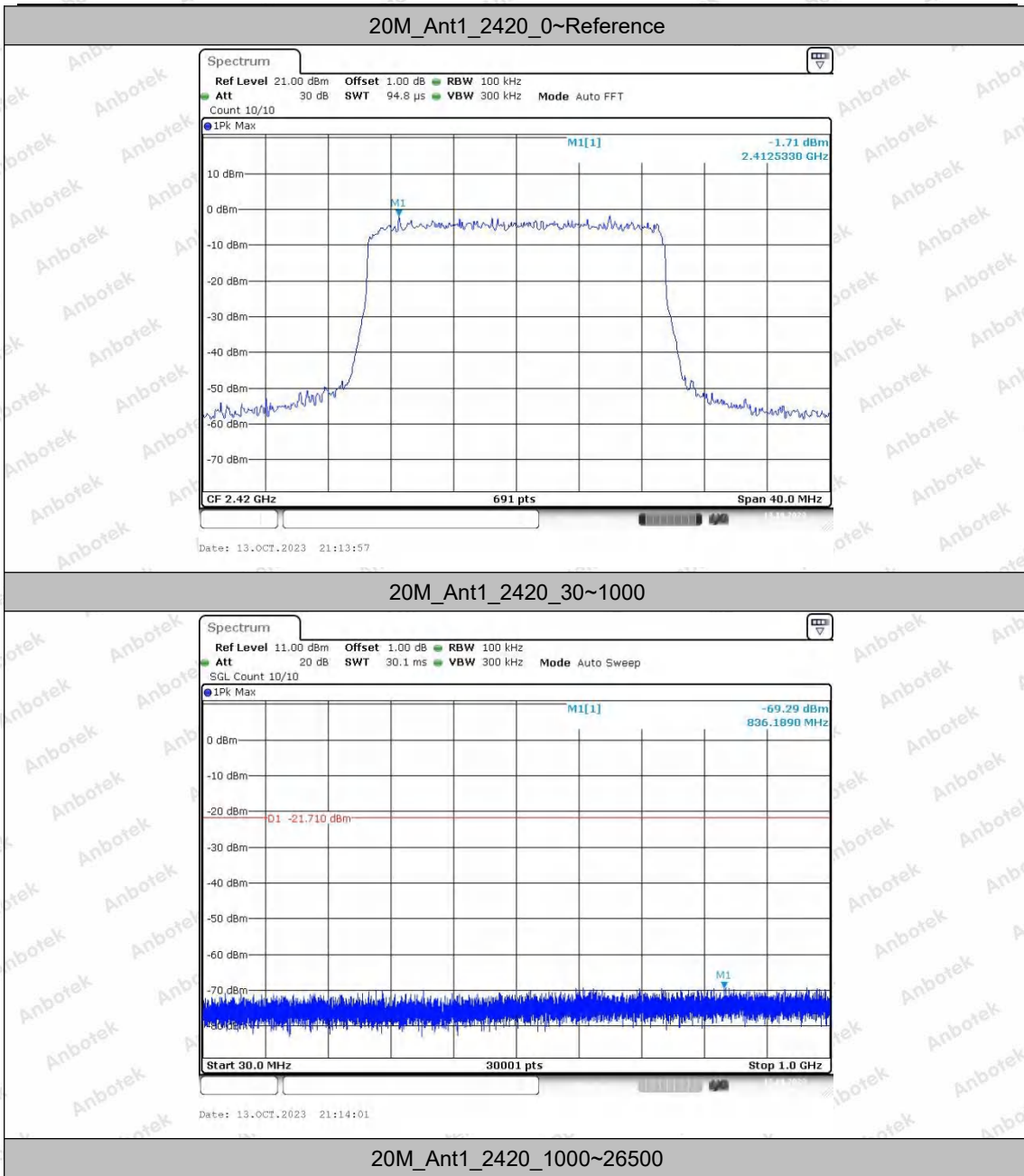


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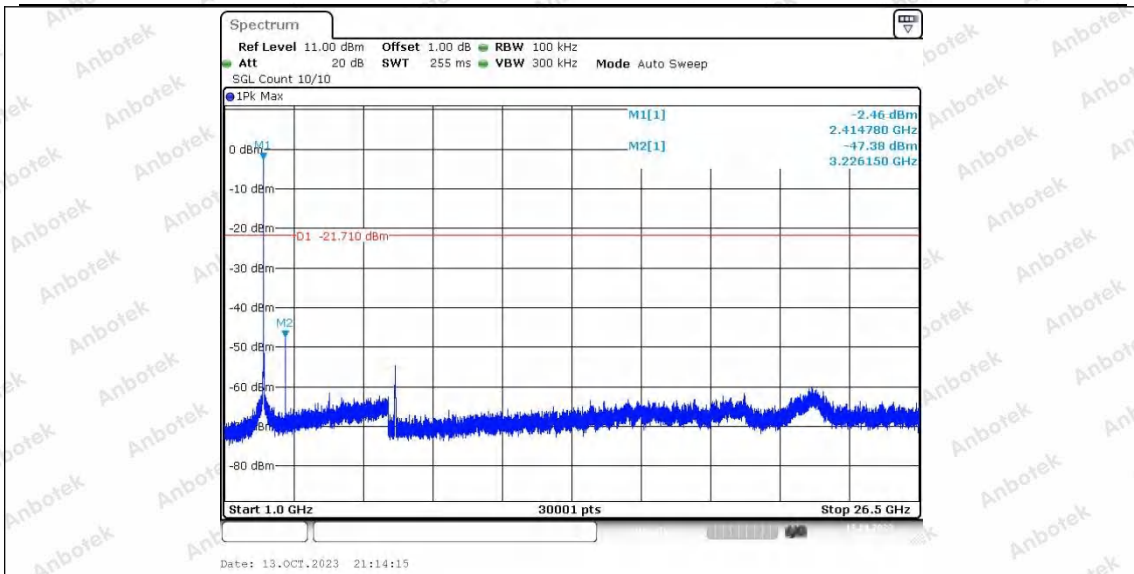


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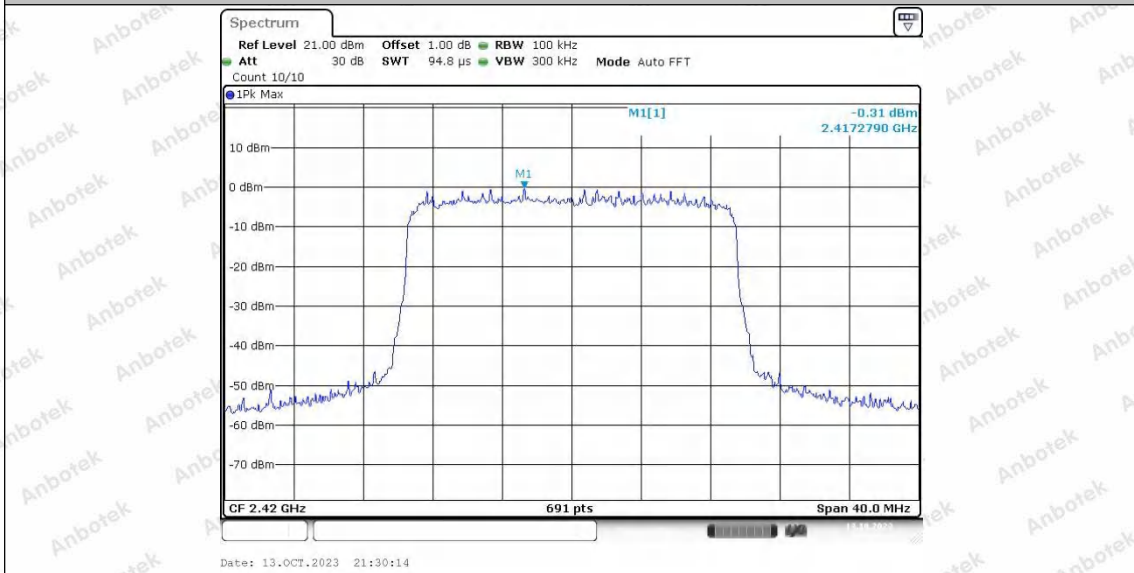
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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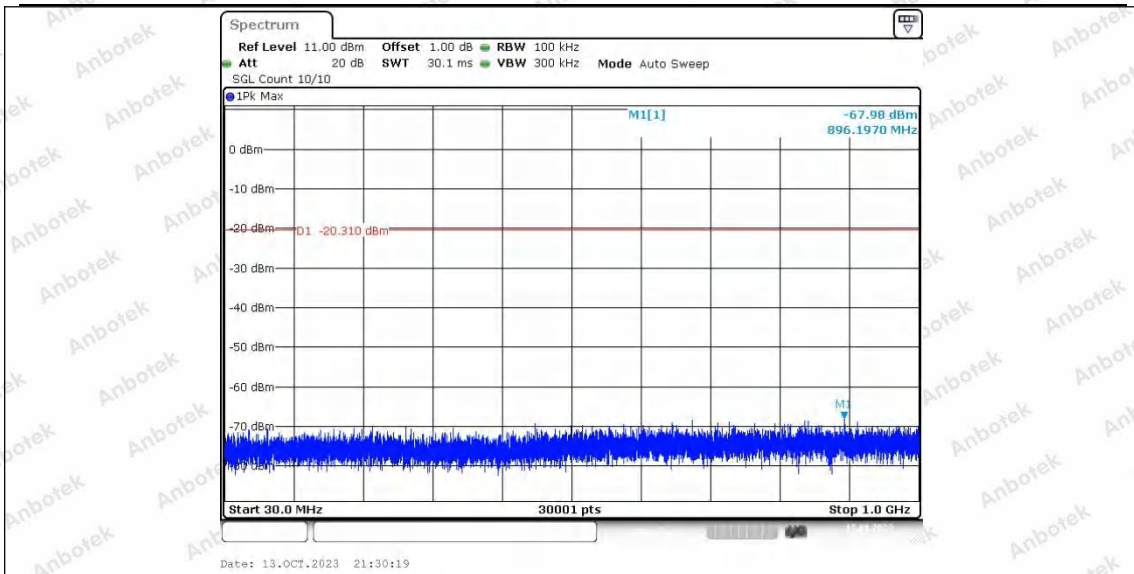


20M\_Ant2\_2420\_0~Reference

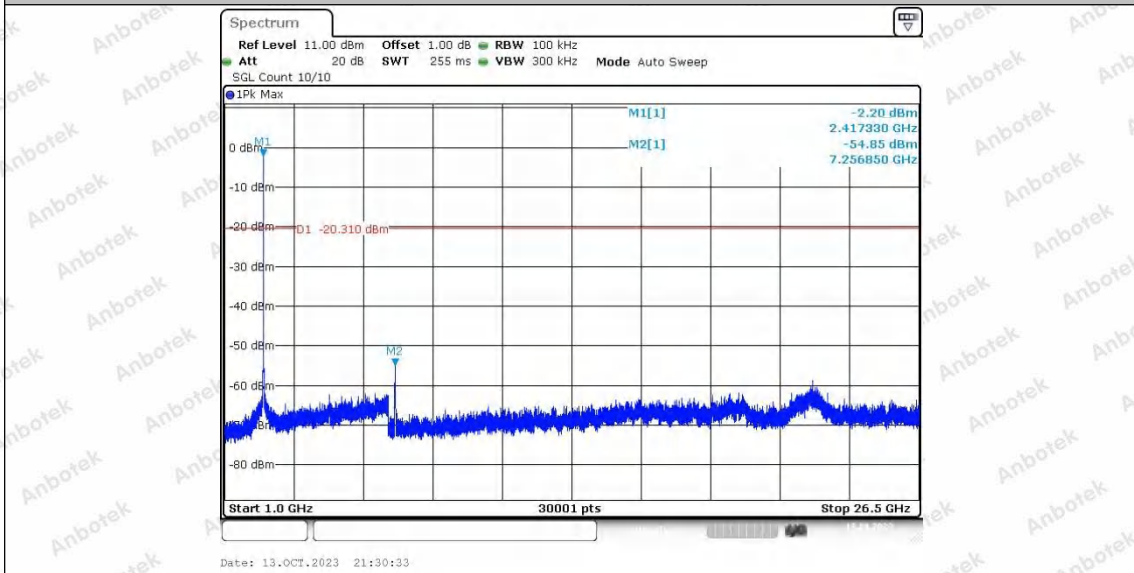


20M\_Ant2\_2420\_30~1000



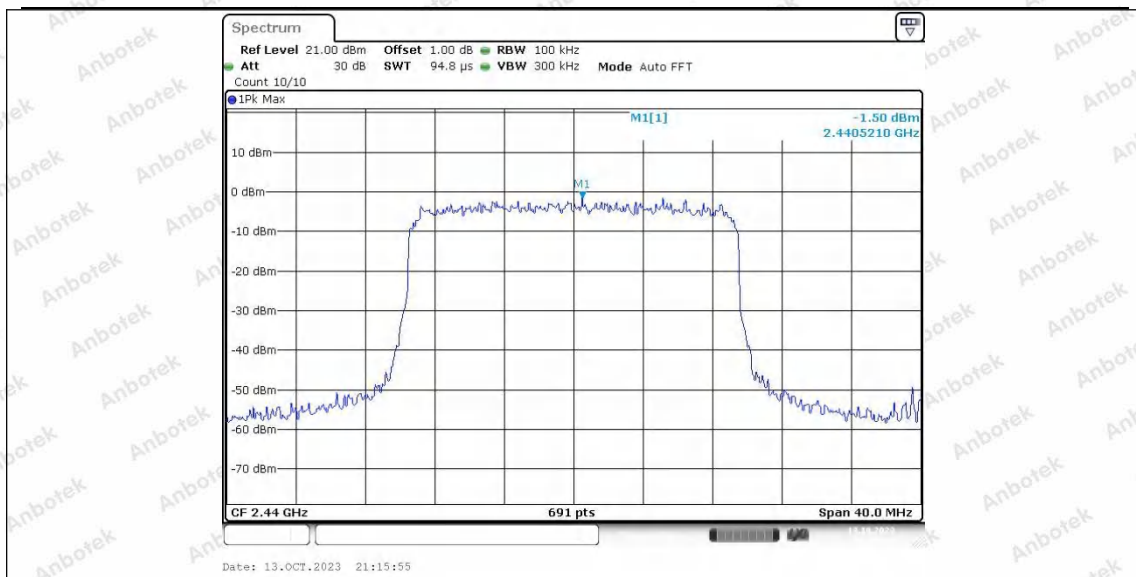


20M\_Ant2\_2420\_1000~26500

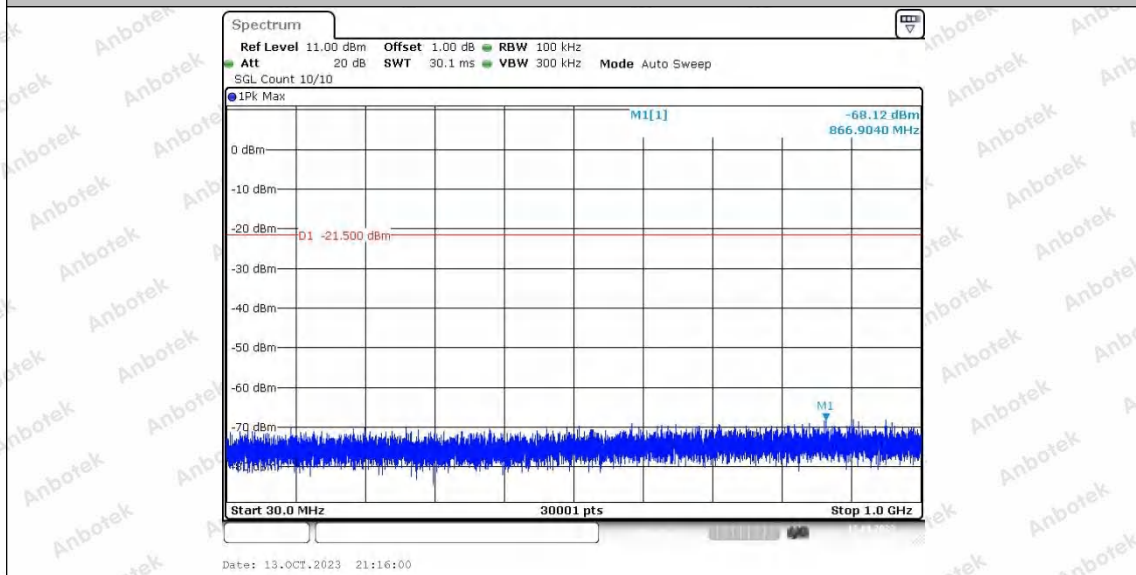


20M\_Ant1\_2440\_0~Reference



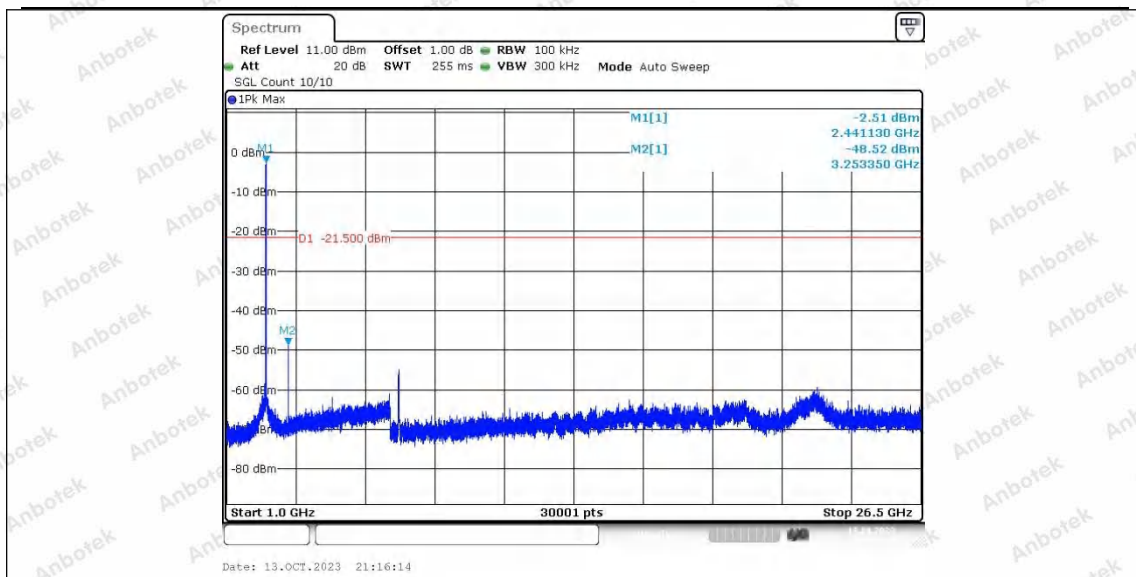


20M\_Ant1\_2440\_30~1000

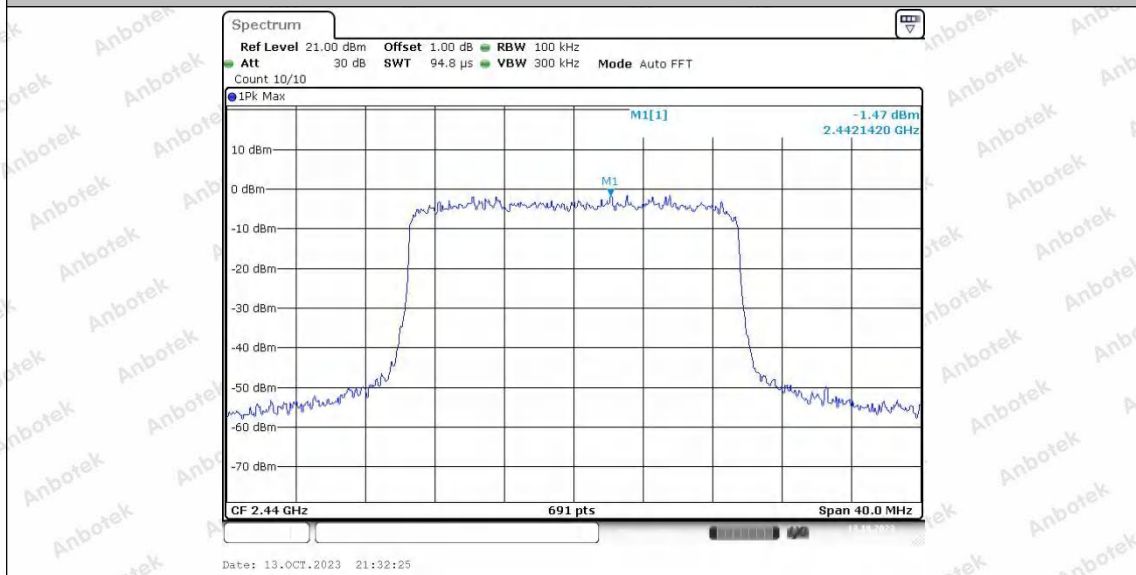


20M\_Ant1\_2440\_1000~26500



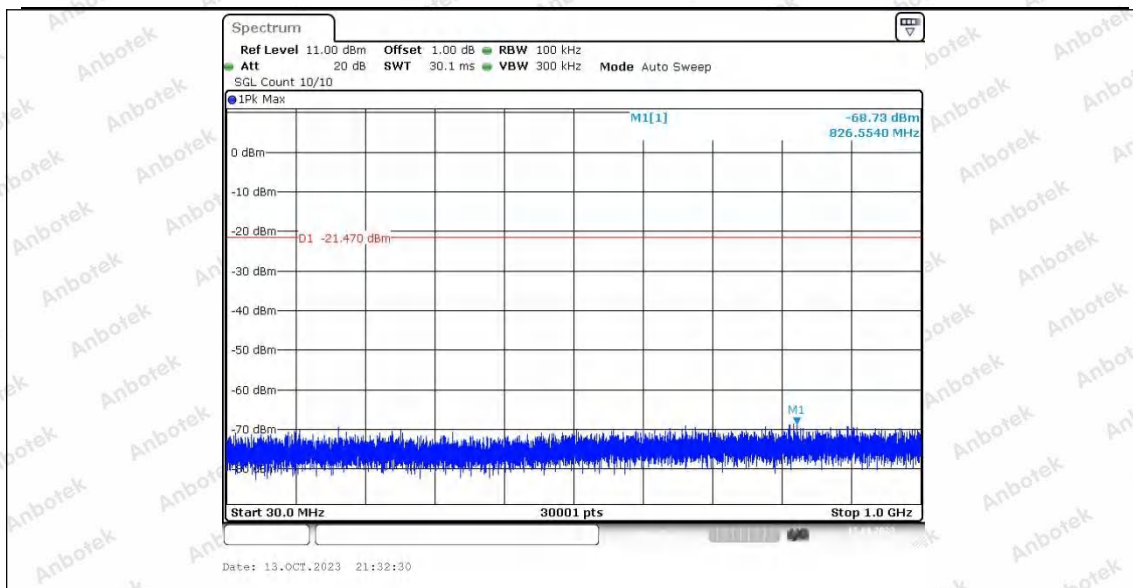


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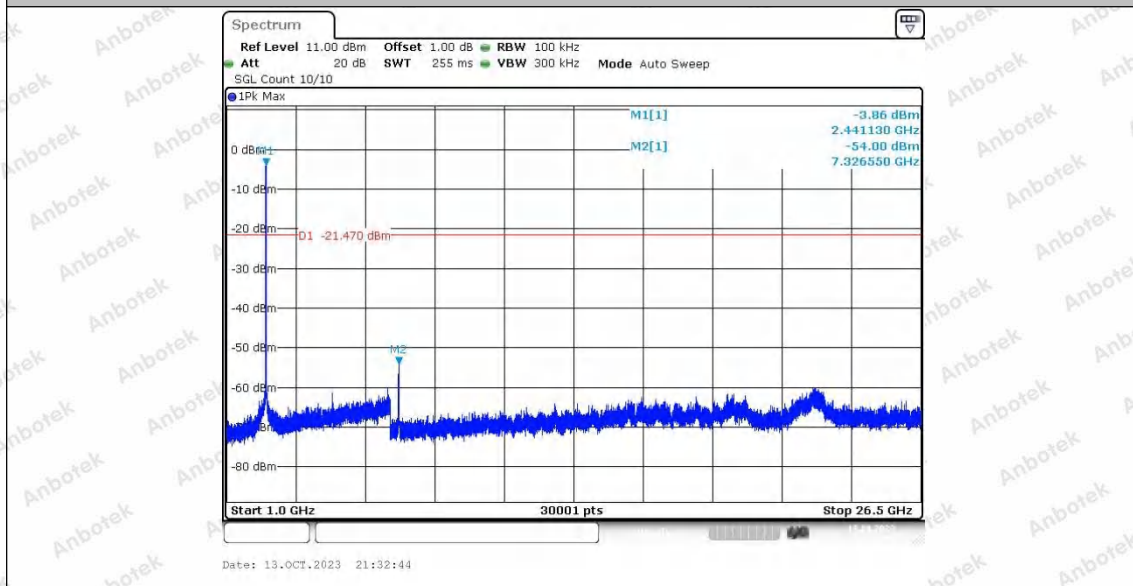


20M\_Ant2\_2440\_30~1000





20M\_Ant2\_2440\_1000~26500



20M\_Ant1\_2460\_0~Reference

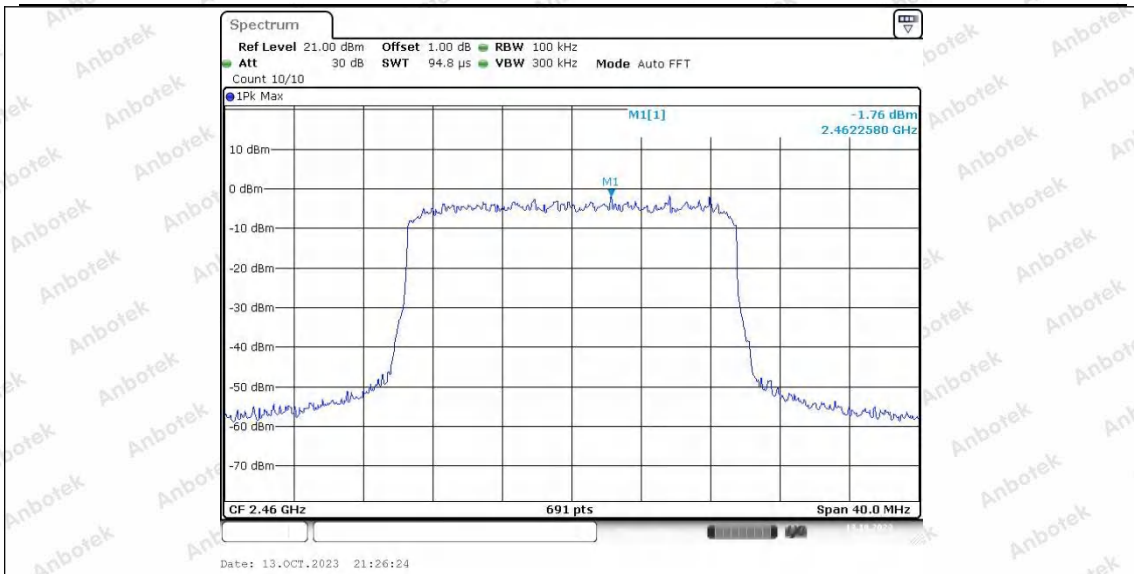
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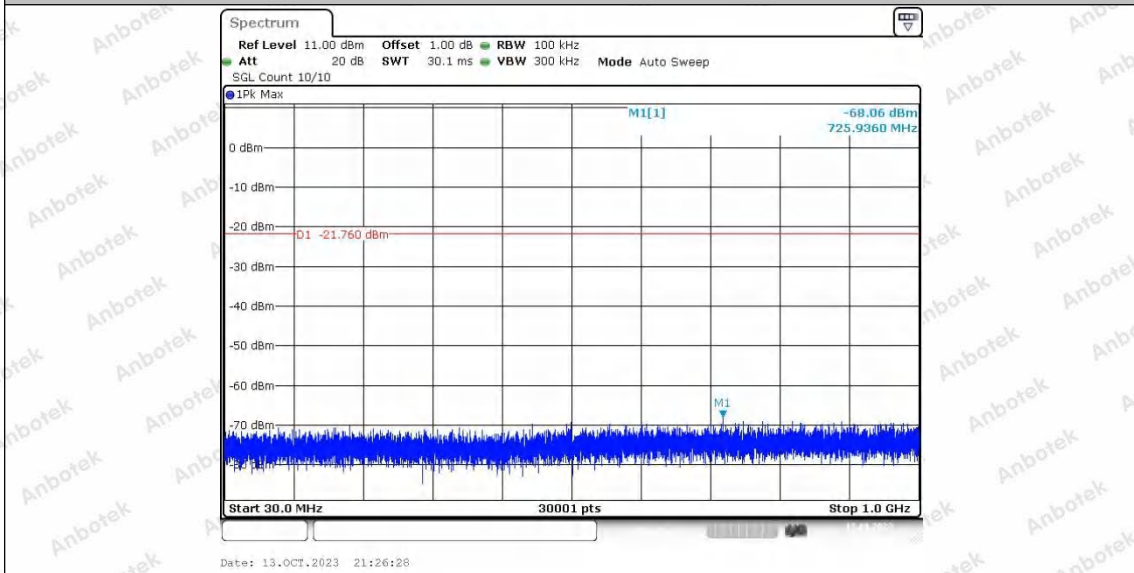


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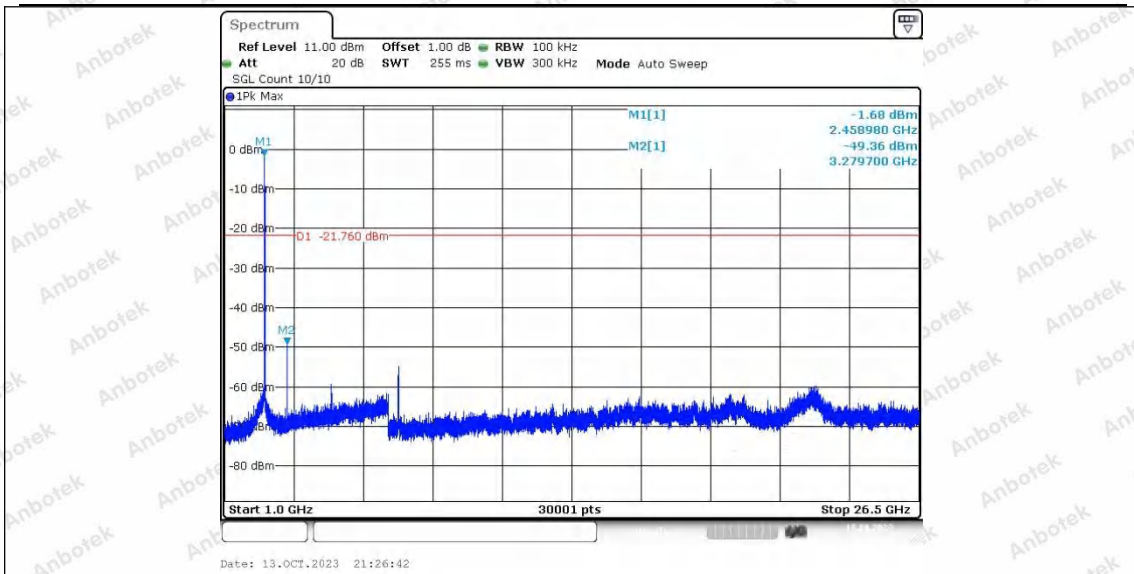
20M\_Ant1\_2460\_30~1000



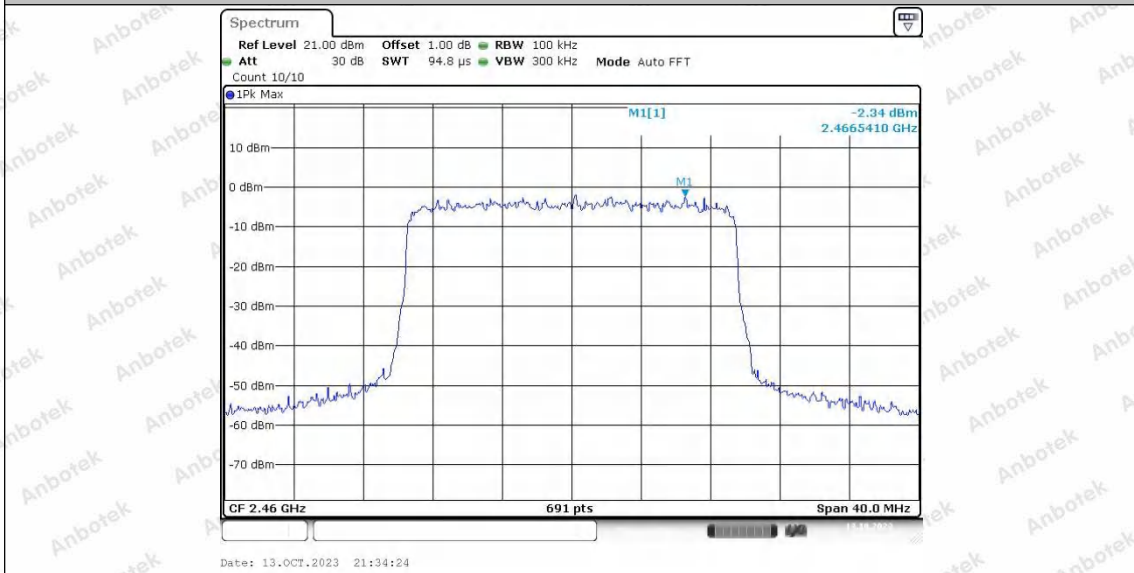
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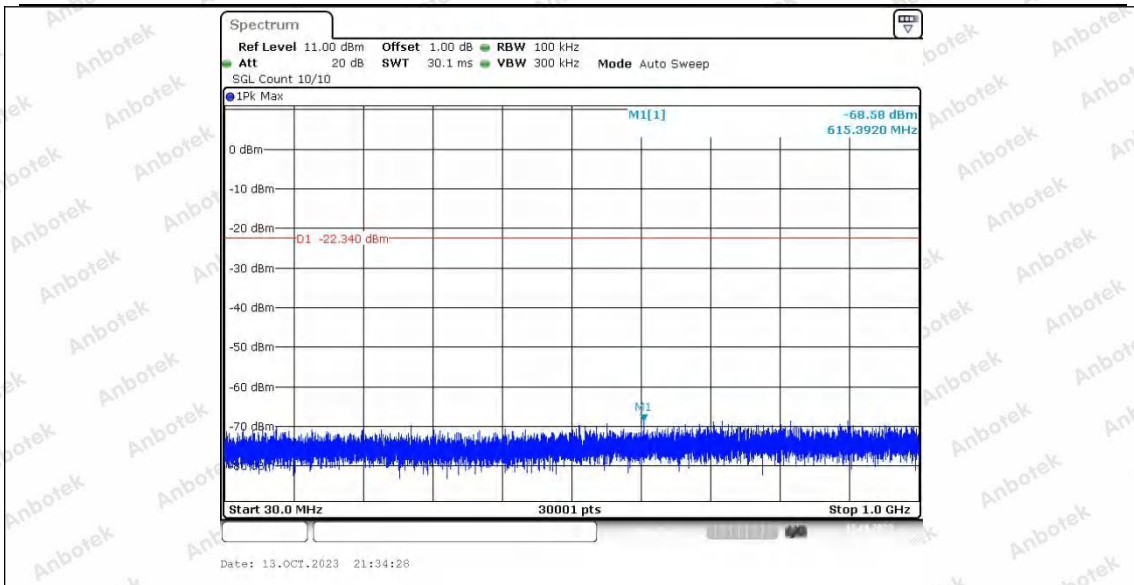


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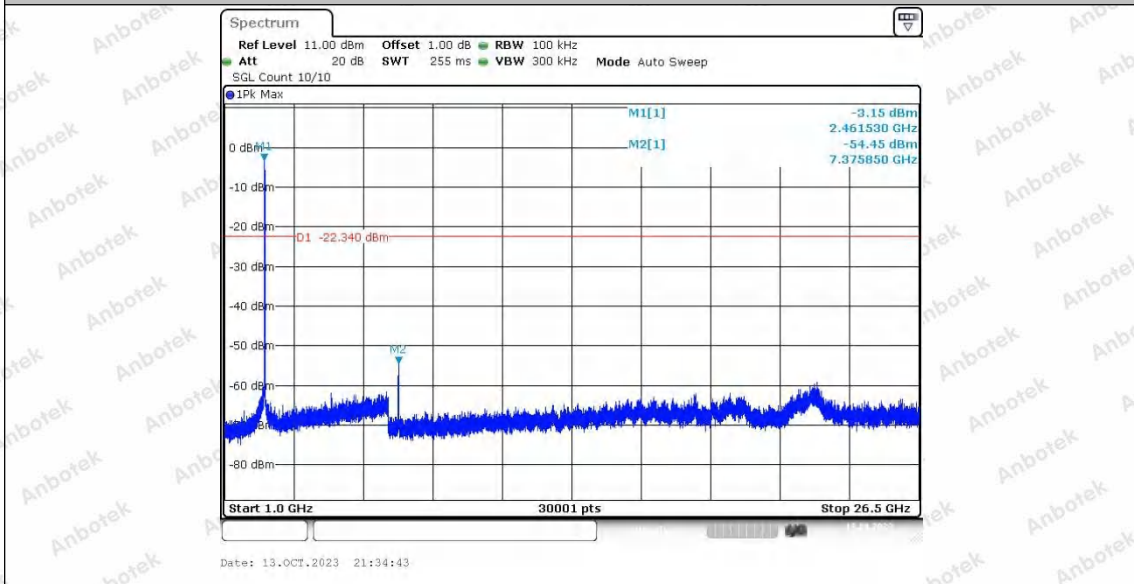


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20M\_Ant2\_2460\_1000~26500



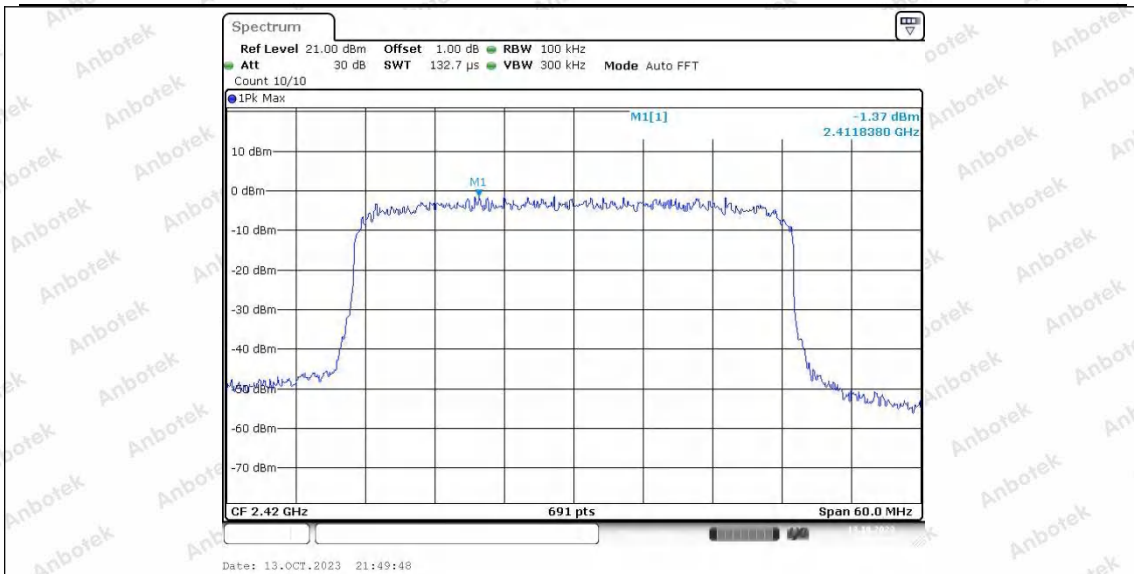
40M\_Ant1\_2420\_0~Reference

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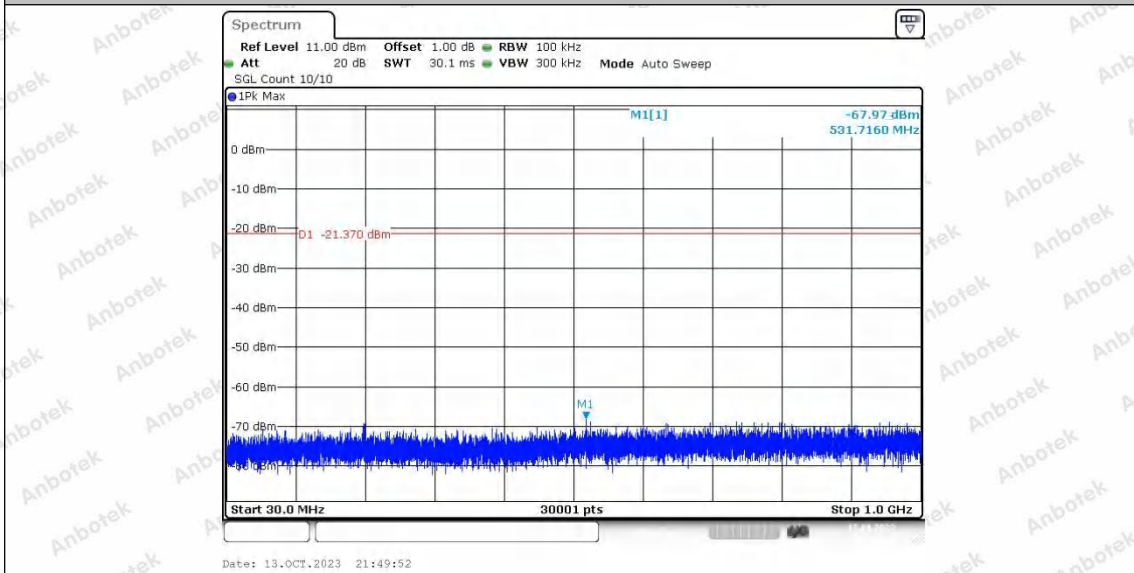
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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40M\_Ant1\_2420\_30~1000



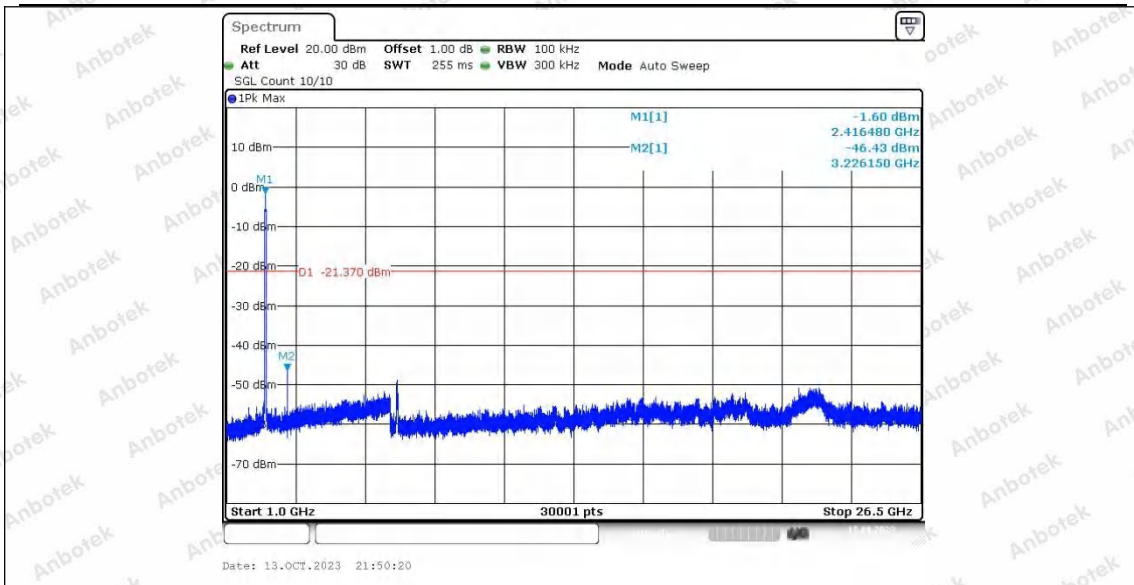
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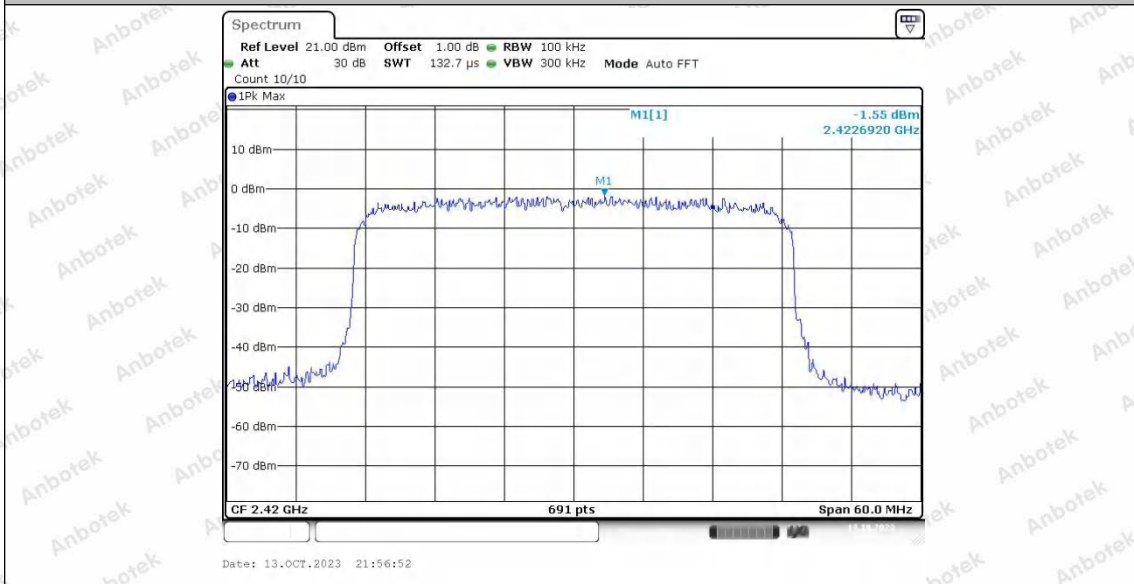
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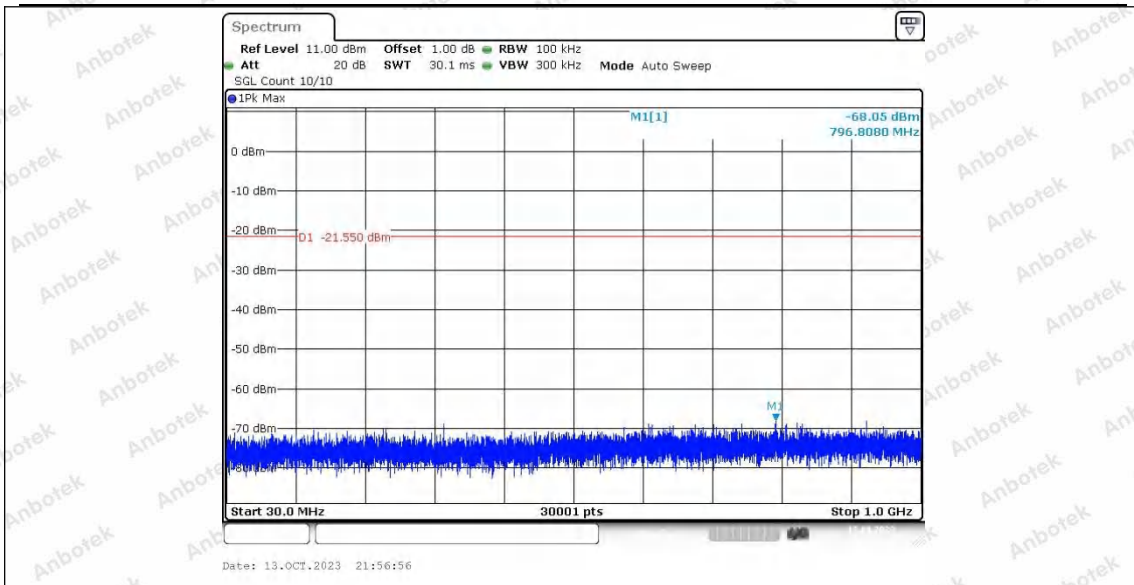


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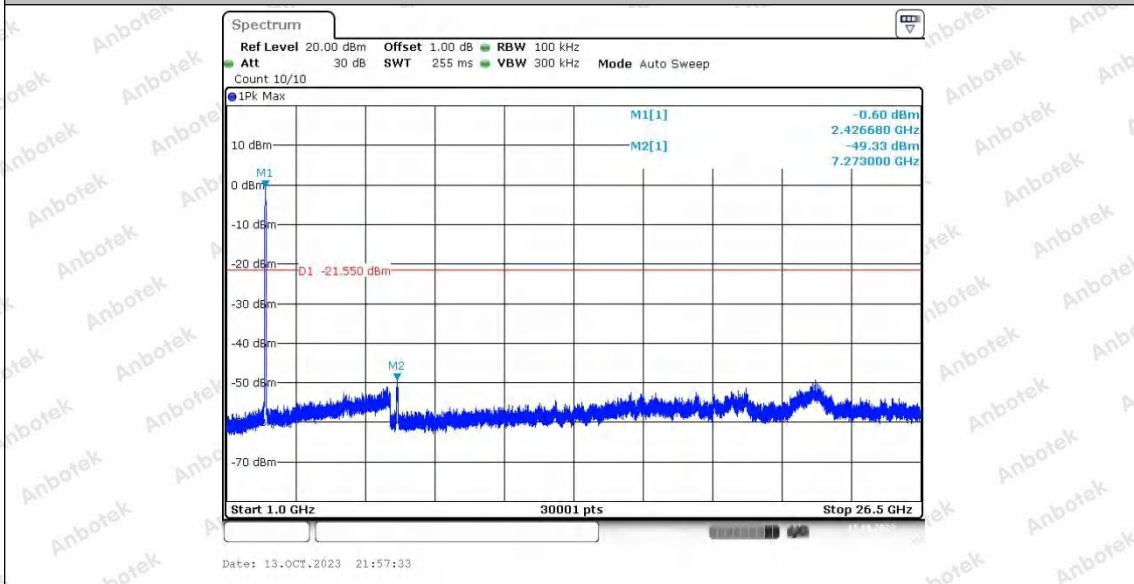


40M\_Ant2\_2420\_30~1000



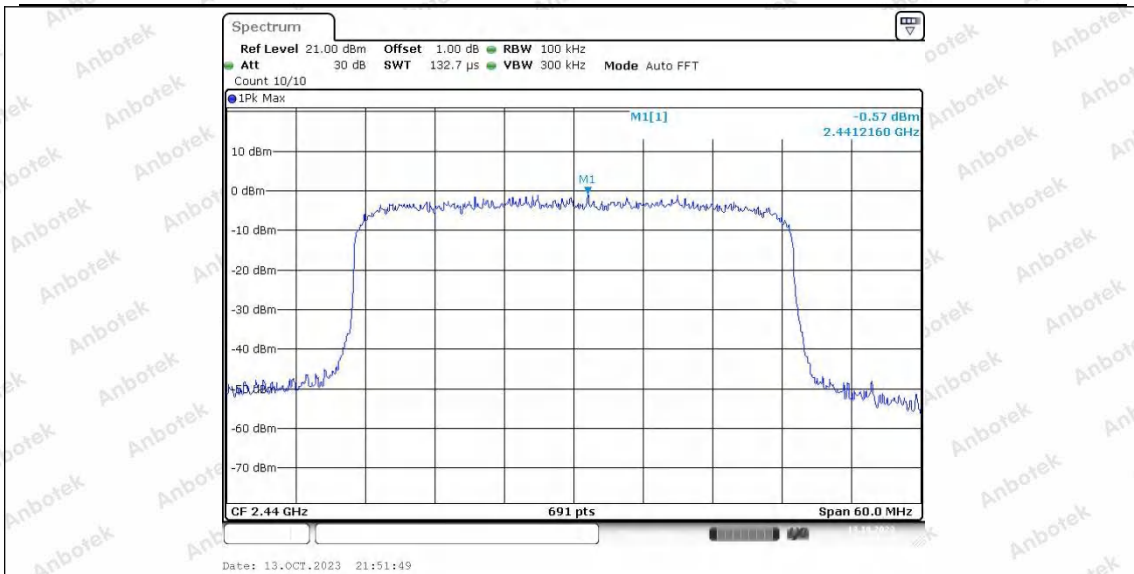


40M\_Ant2\_2420\_1000~26500

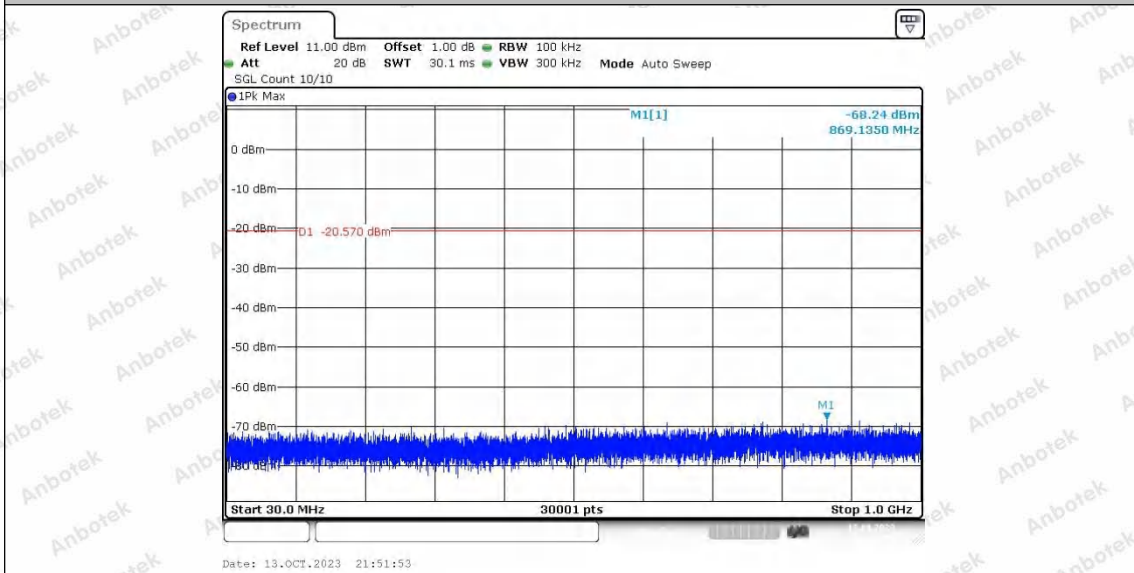


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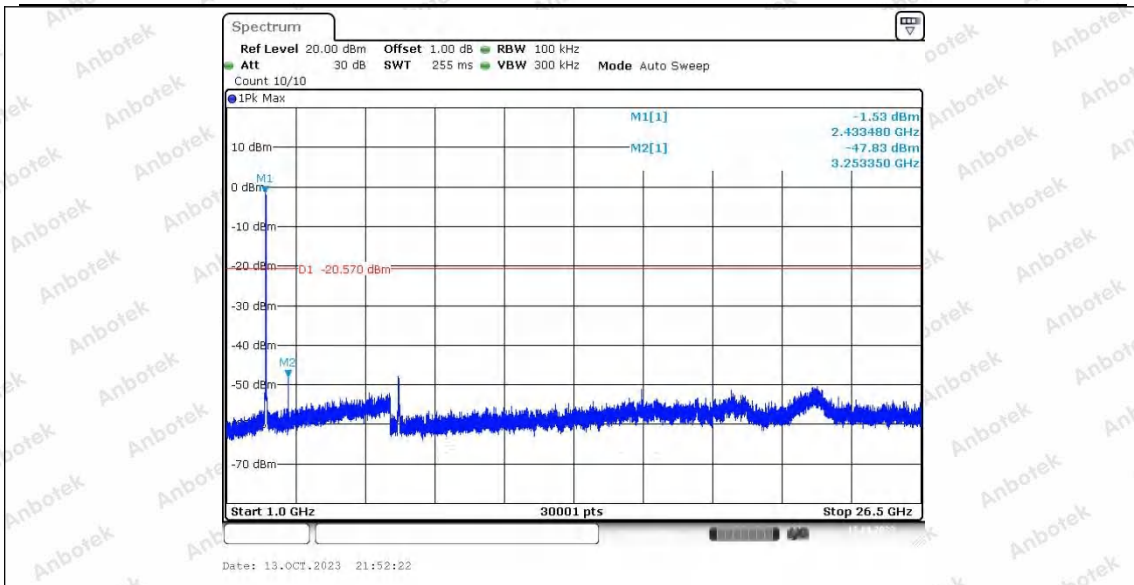


40M\_Ant1\_2440\_30~1000

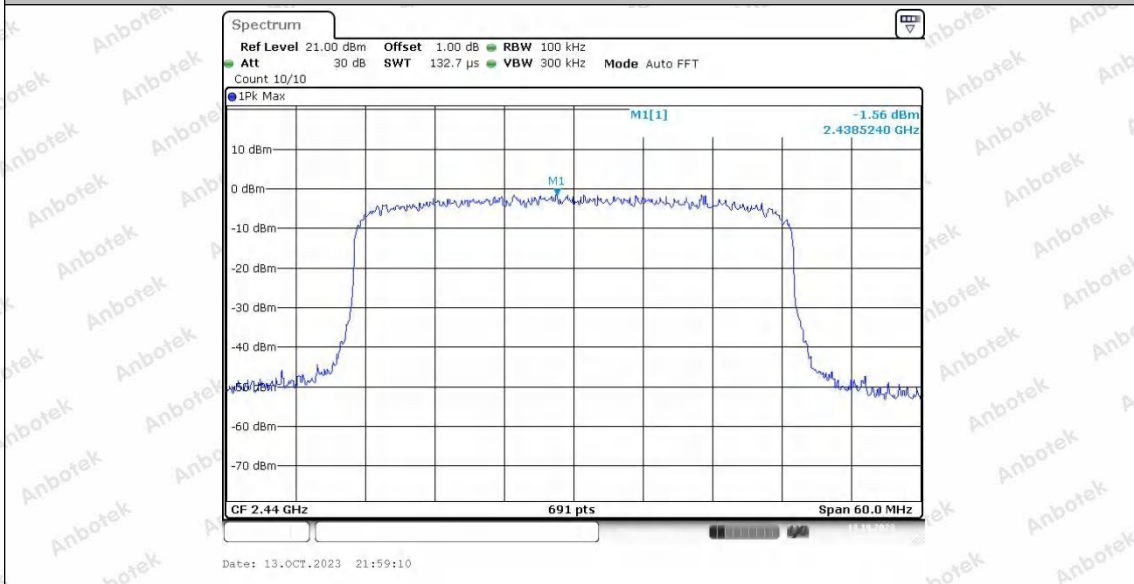


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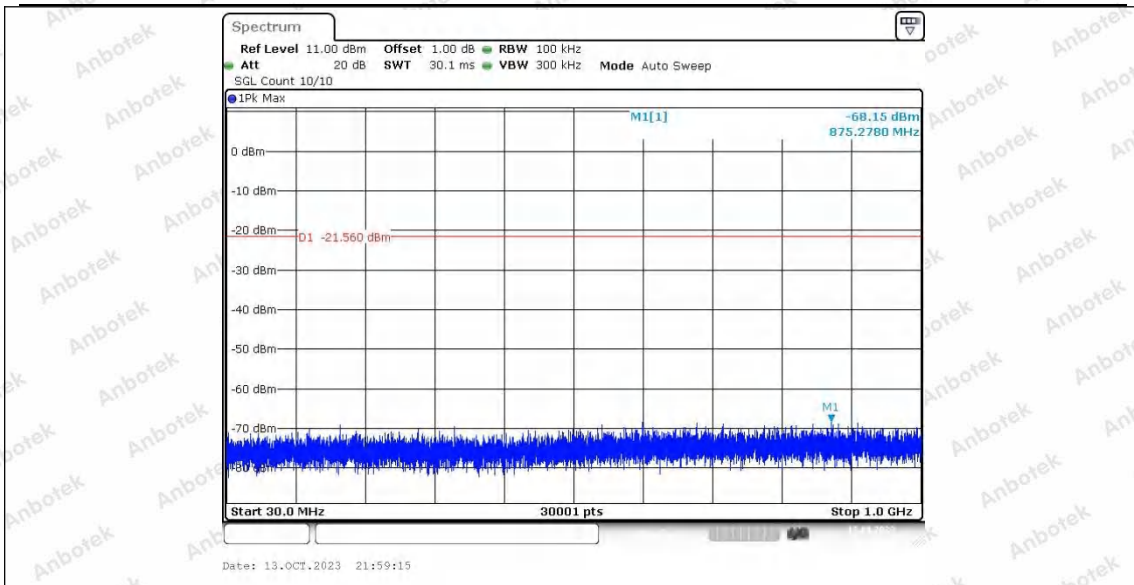


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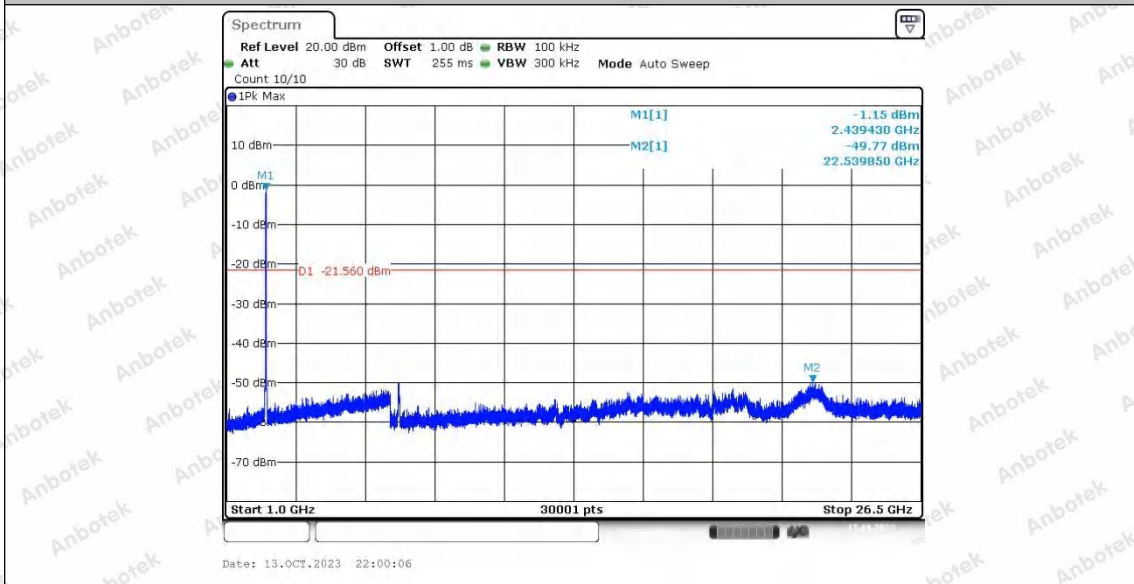


40M\_Ant2\_2440\_30~1000





40M\_Ant2\_2440\_1000~26500



40M\_Ant1\_2460\_0~Reference

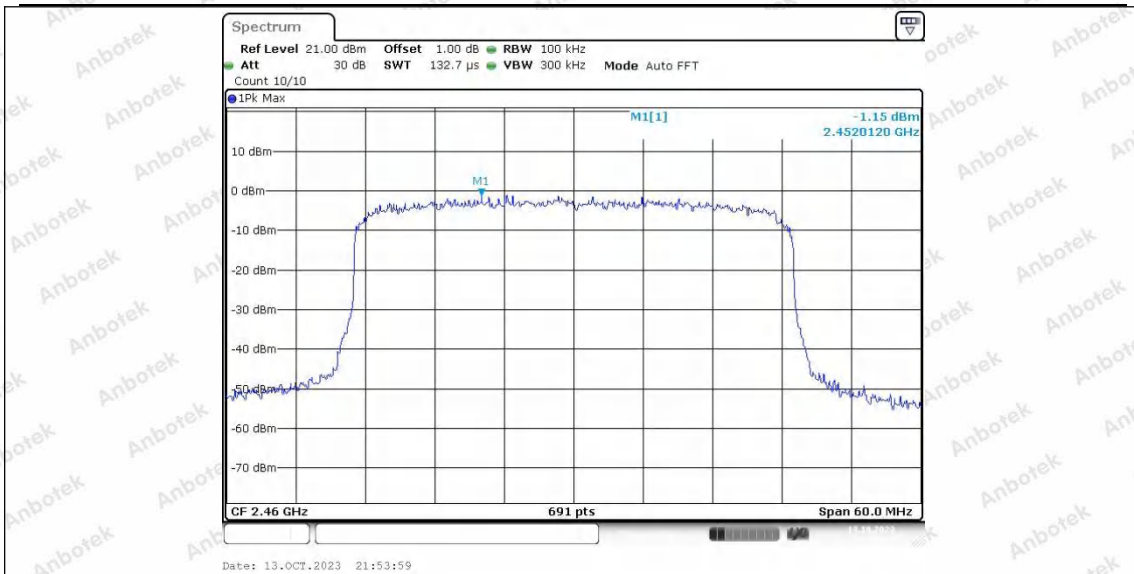
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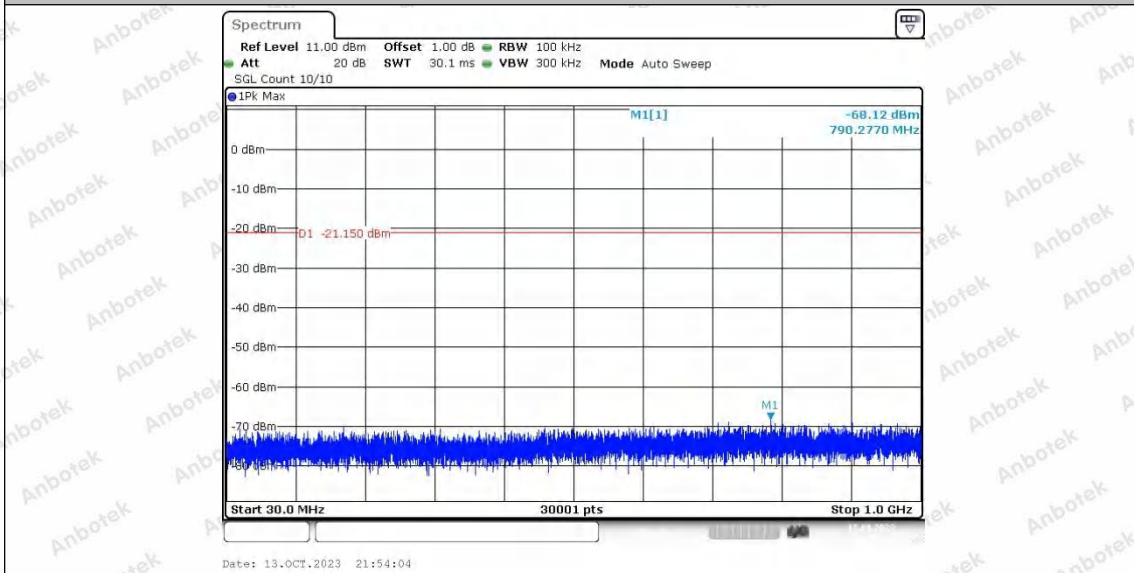
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40M\_Ant1\_2460\_30~1000



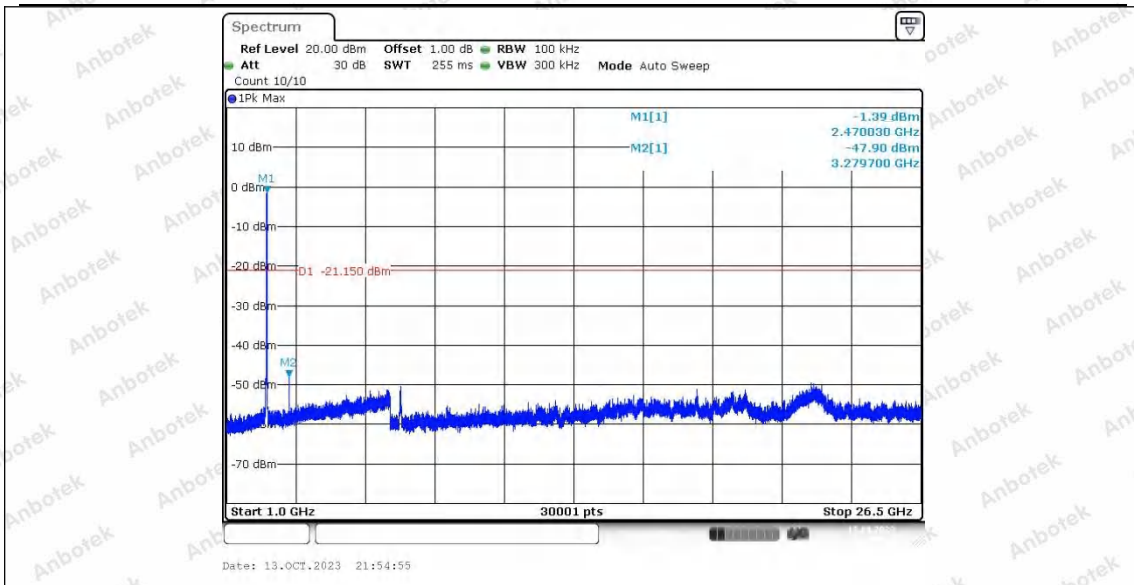
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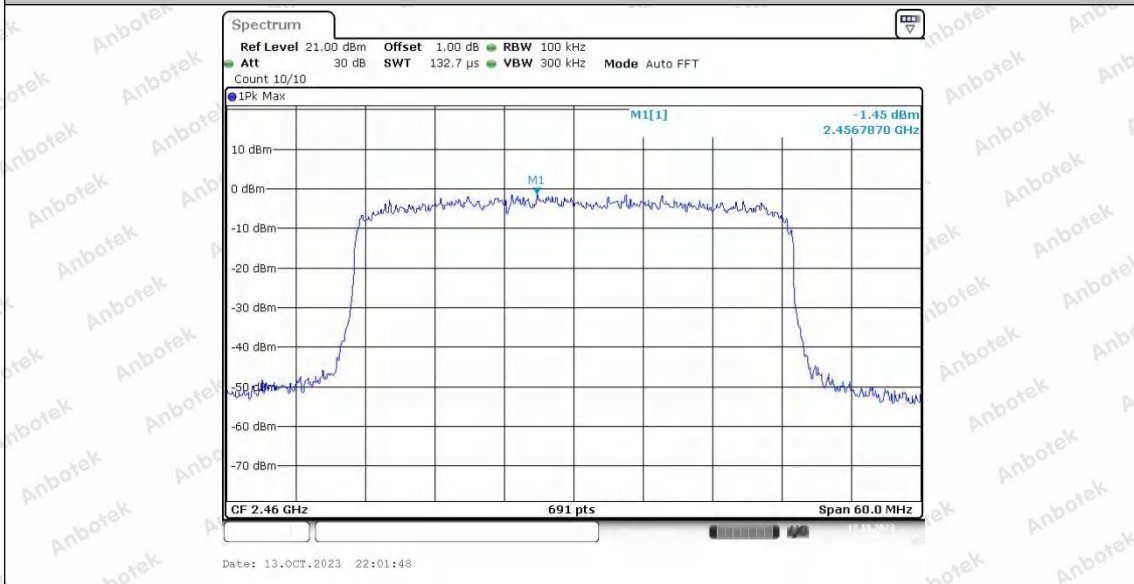
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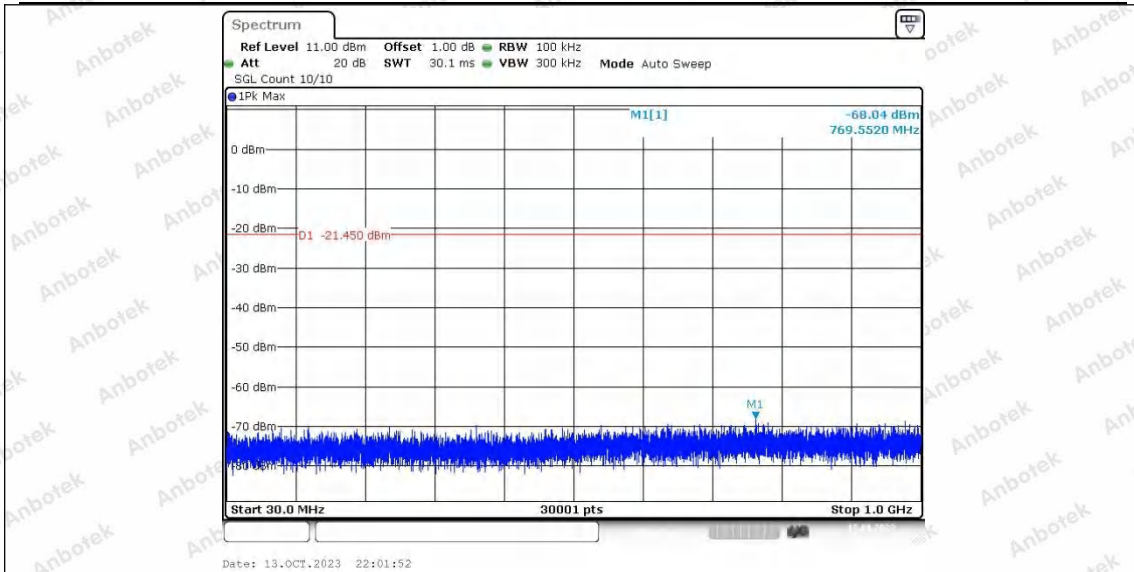


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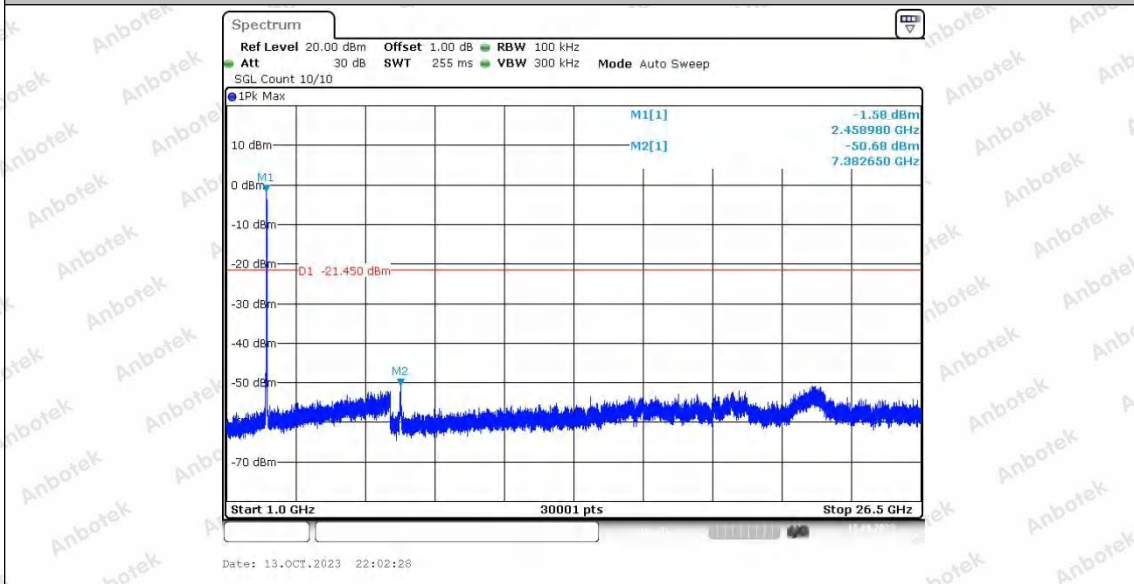


40M\_Ant2\_2460\_30~1000





40M\_Ant2\_2460\_1000~26500



## Appendix G: Duty Cycle

### Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
10M	Ant1	2420	1.62	2.22	72.97	1.37
	Ant2	2420	1.62	2.22	72.97	1.37
	Ant1	2440	1.63	2.23	73.09	1.36
	Ant2	2440	1.63	2.23	73.09	1.36
	Ant1	2460	1.62	2.22	72.97	1.37
	Ant2	2460	1.63	2.23	73.09	1.36
20M	Ant1	2420	1.62	2.22	72.97	1.37

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	Ant2	2420	1.62	2.22	72.97	1.37
	Ant1	2440	1.62	2.22	72.97	1.37
	Ant2	2440	1.62	2.22	72.97	1.37
	Ant1	2460	1.62	2.22	72.97	1.37
	Ant2	2460	1.62	2.22	72.97	1.37
	Ant1	2420	0.81	1.41	57.45	2.41
40M	Ant2	2420	0.81	1.41	57.45	2.41
	Ant1	2440	0.82	1.42	57.75	2.38
	Ant2	2440	0.81	1.41	57.45	2.41
	Ant1	2460	0.81	1.41	57.45	2.41
	Ant2	2460	0.81	1.41	57.45	2.41
	Ant1	2460	0.81	1.41	57.45	2.41

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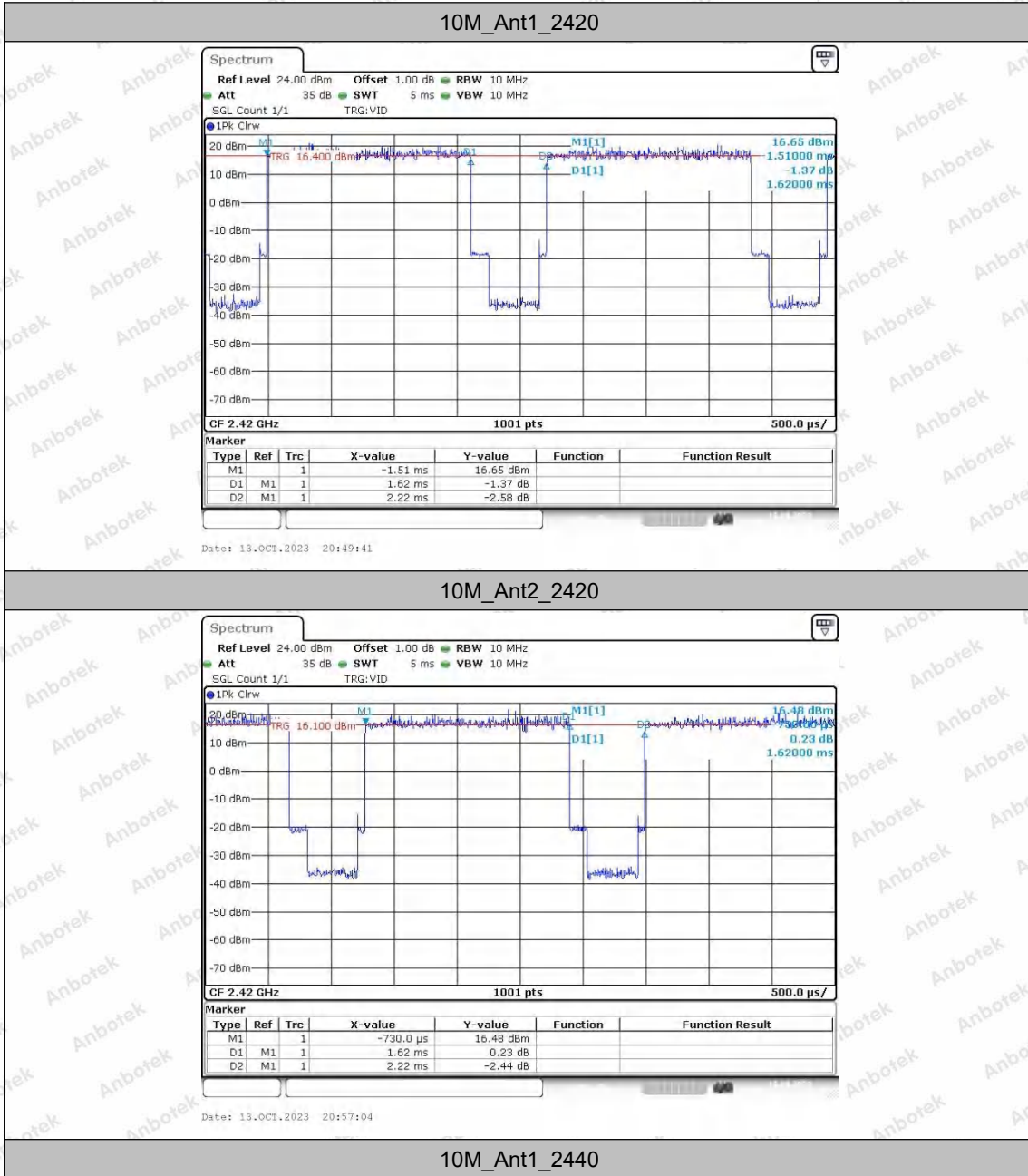
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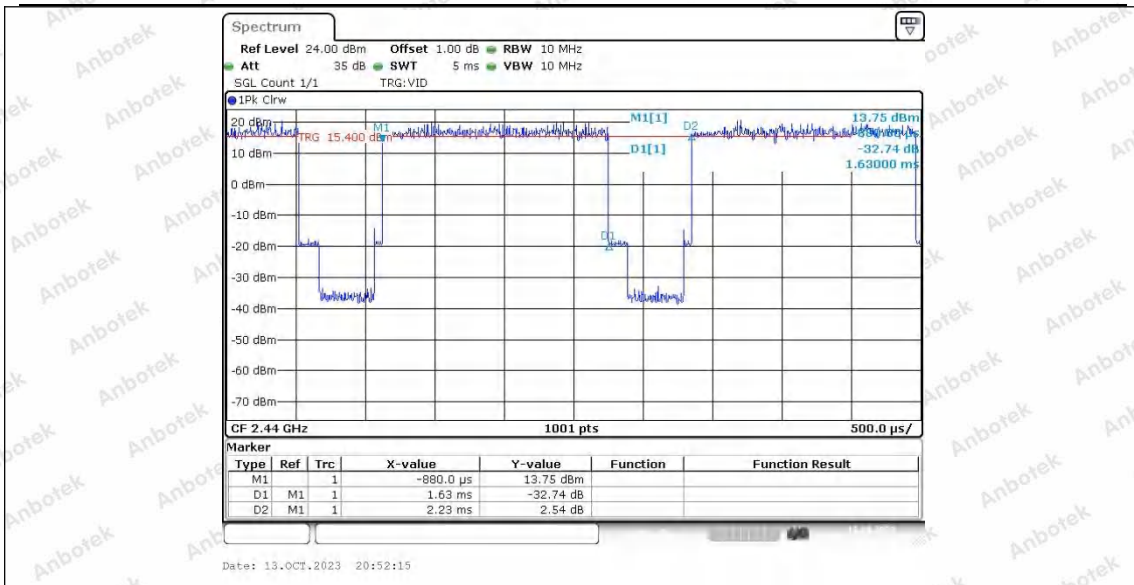


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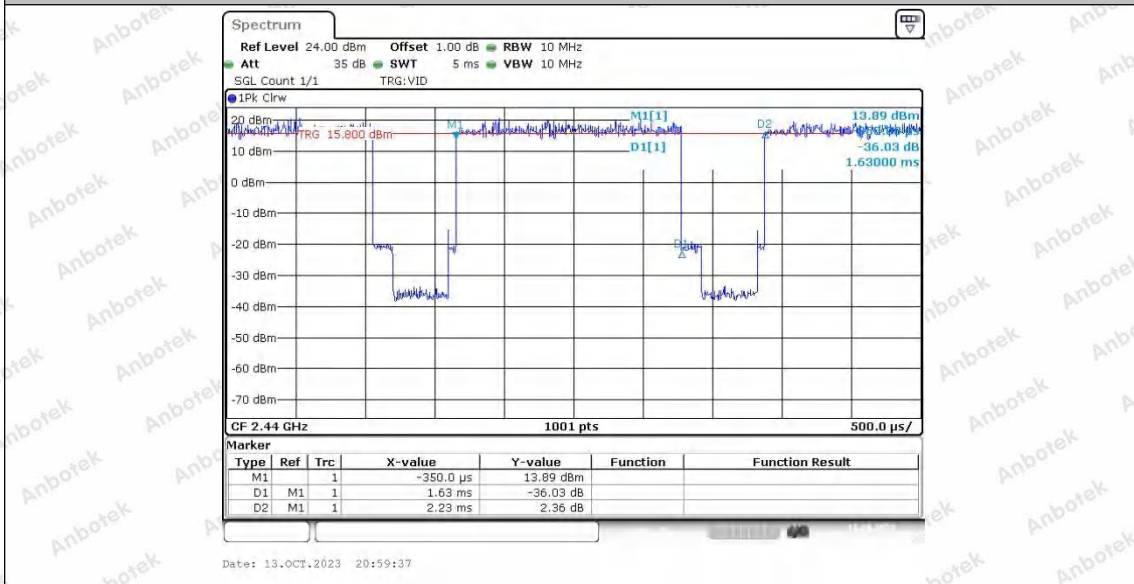


## Test Graphs



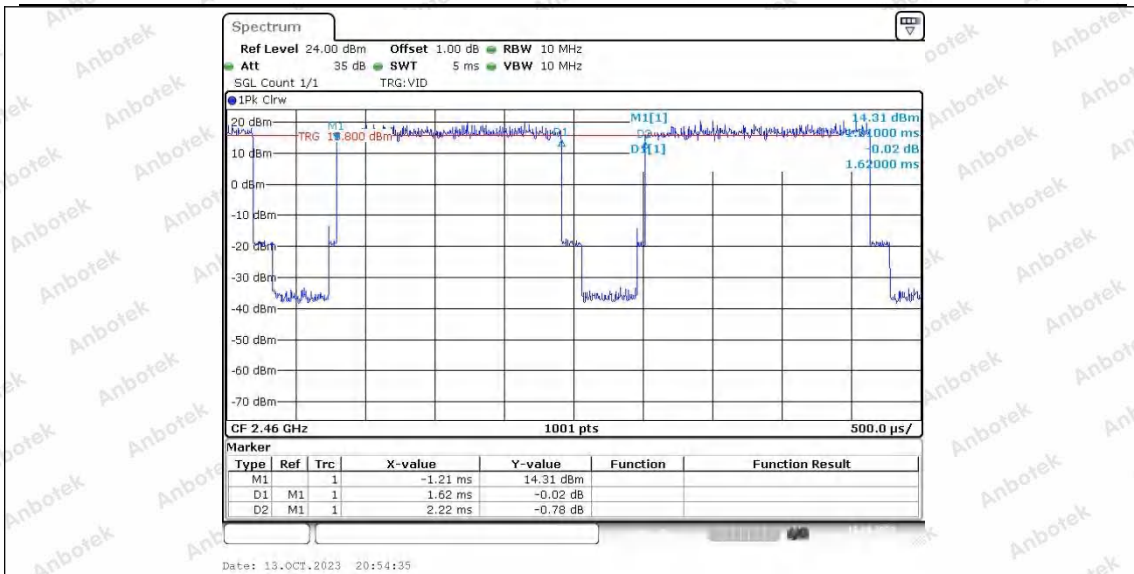


10M\_Ant2\_2440

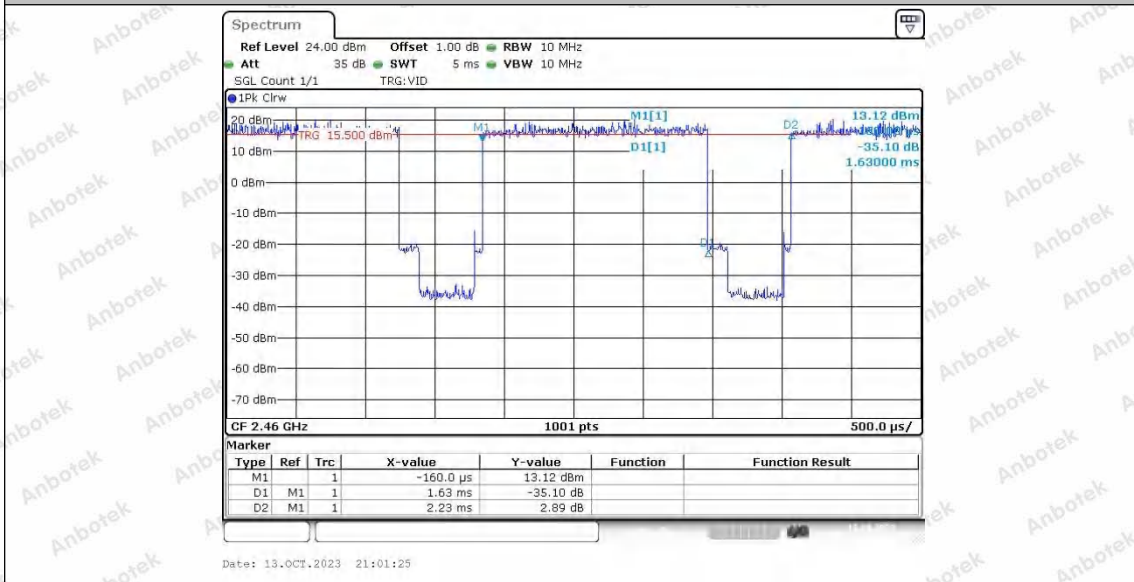


10M\_Ant1\_2460





## 10M\_Ant2\_2460



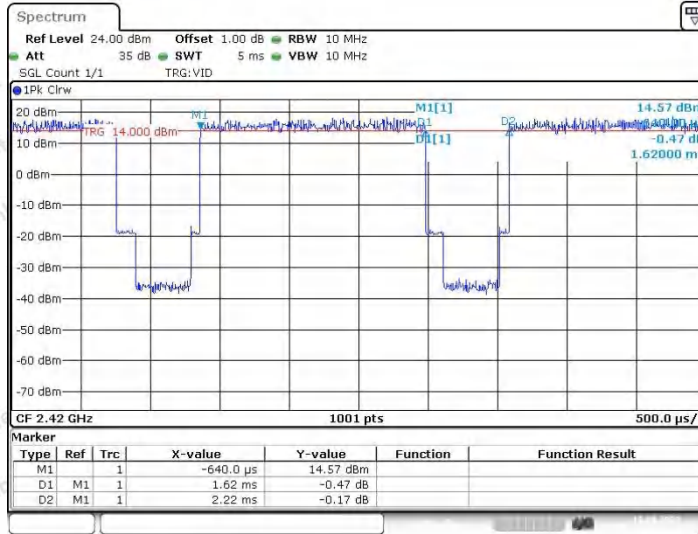
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

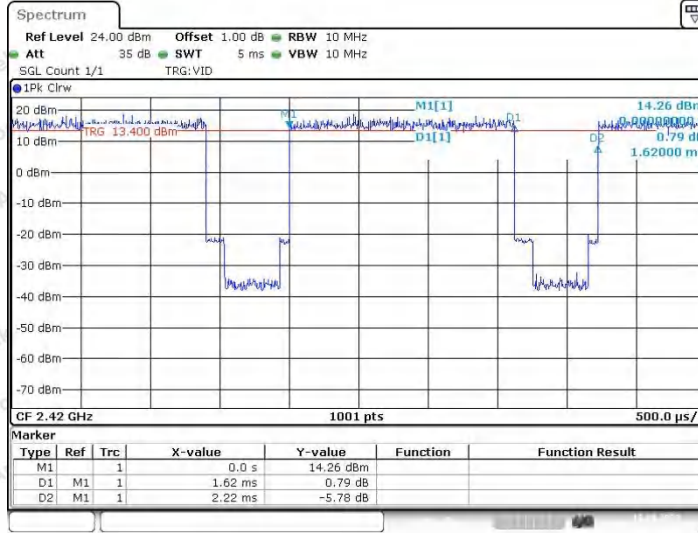
Hotline  
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## 20M\_Ant1\_2420



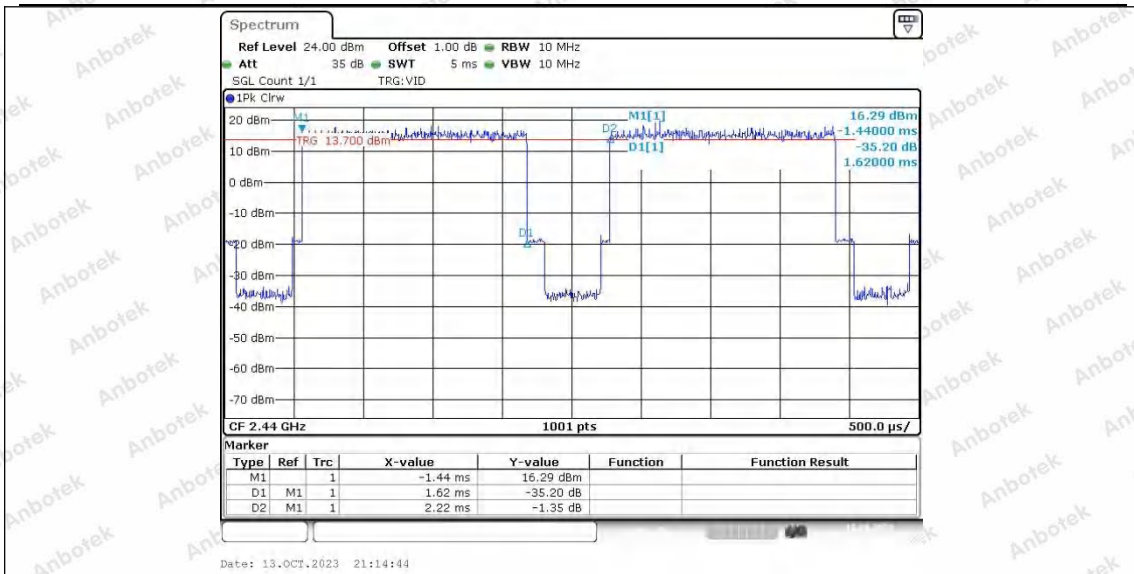
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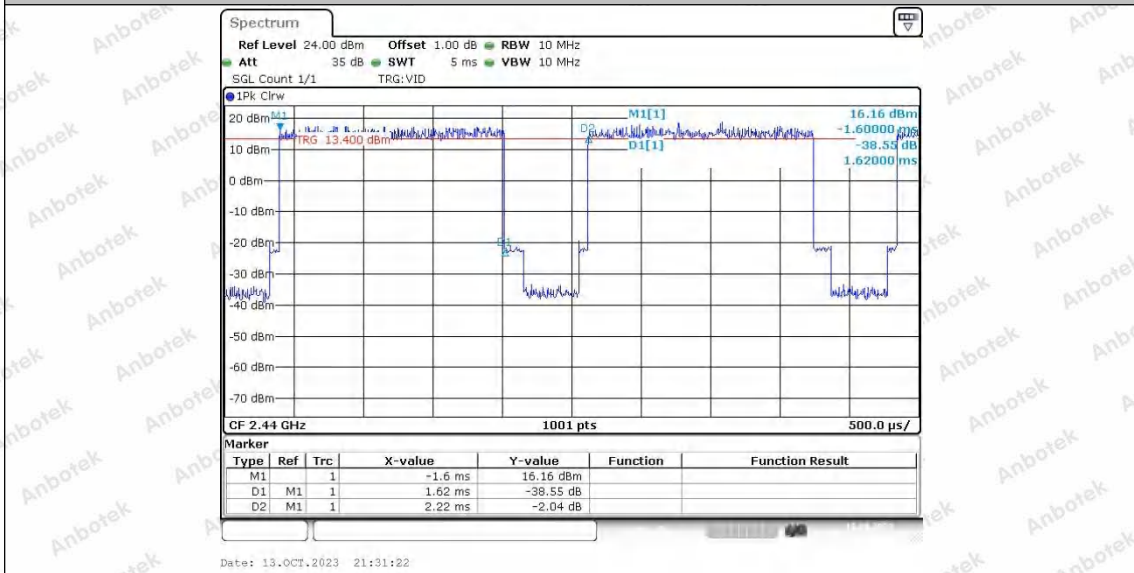
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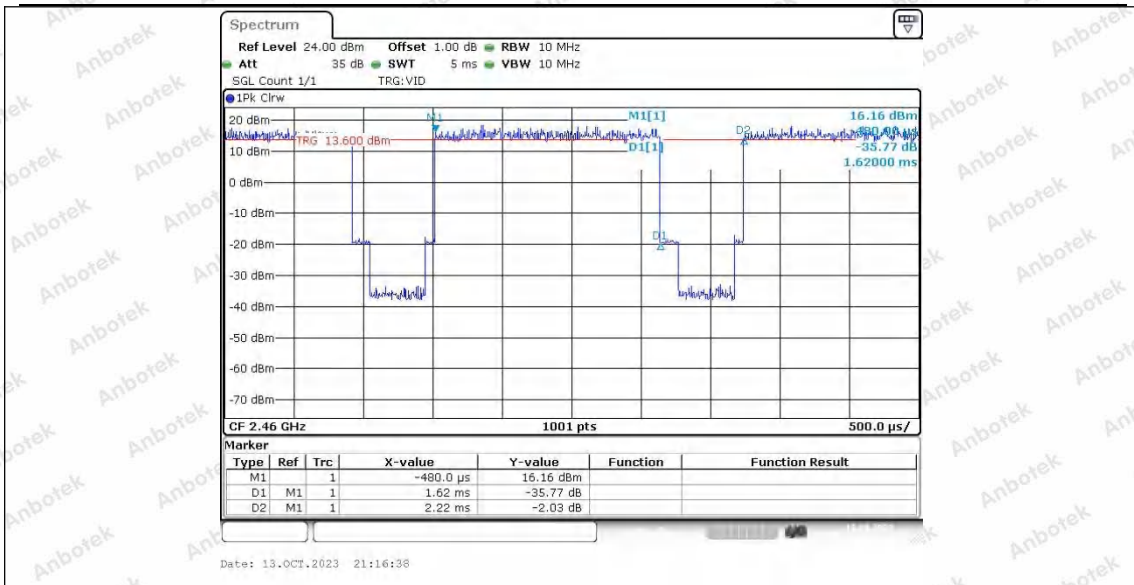


20M\_Ant2\_2440

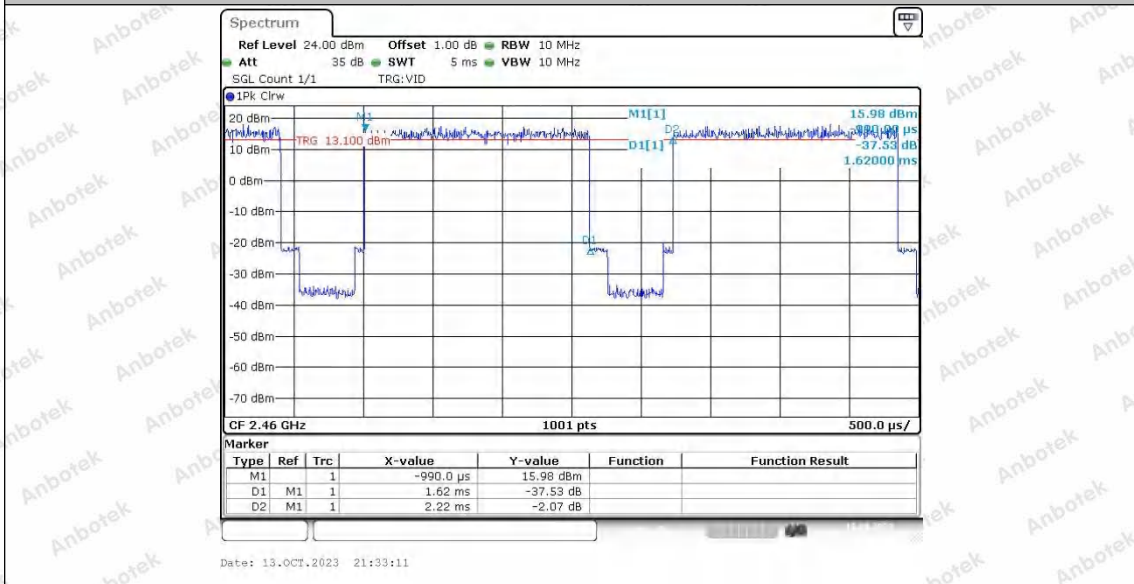


20M\_Ant1\_2460



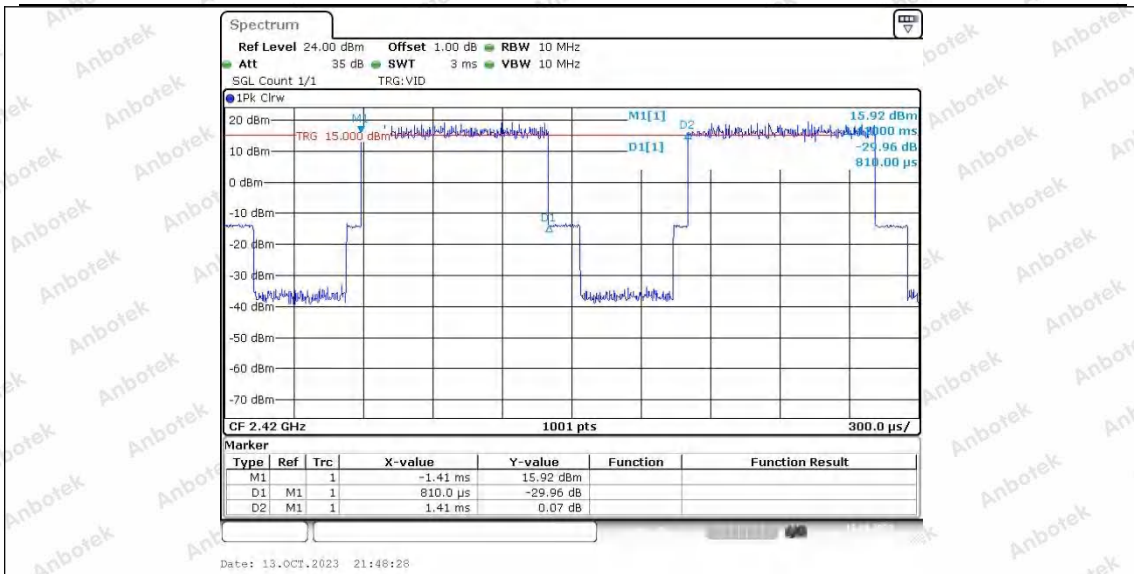


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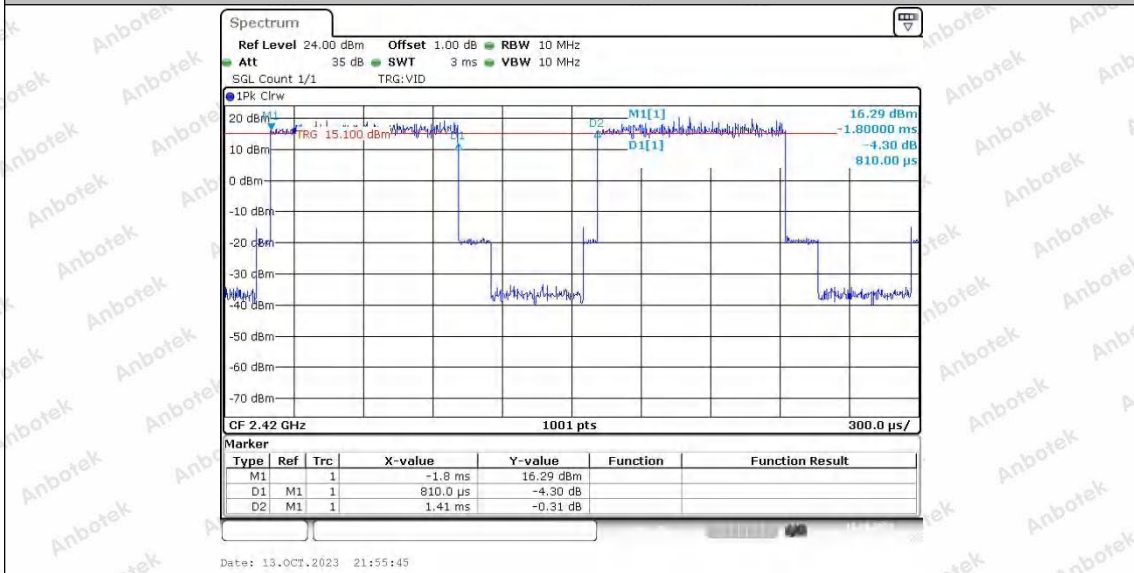


40M\_Ant1\_2420



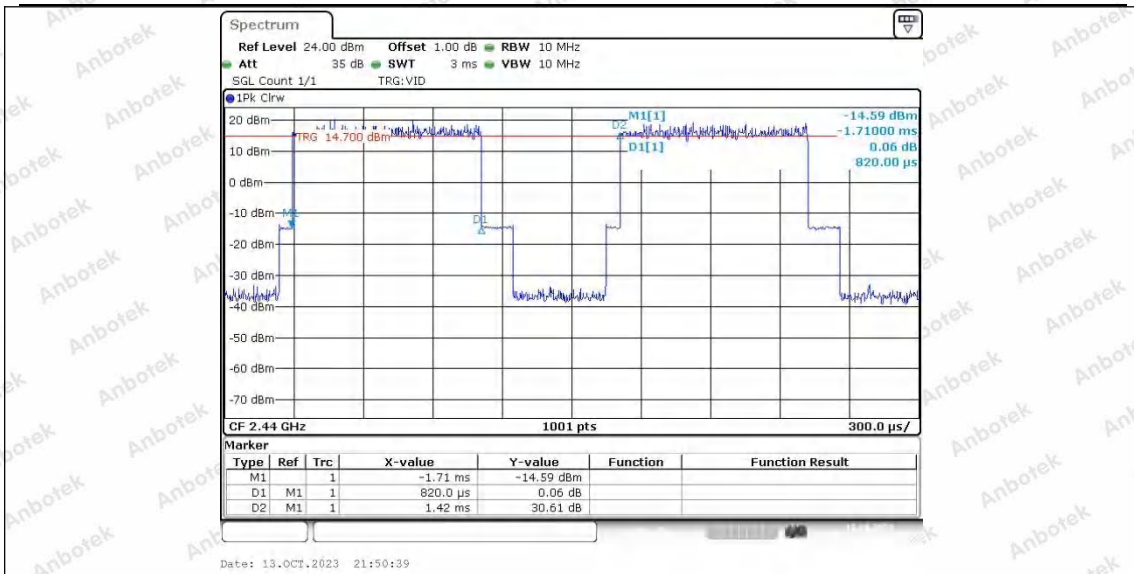


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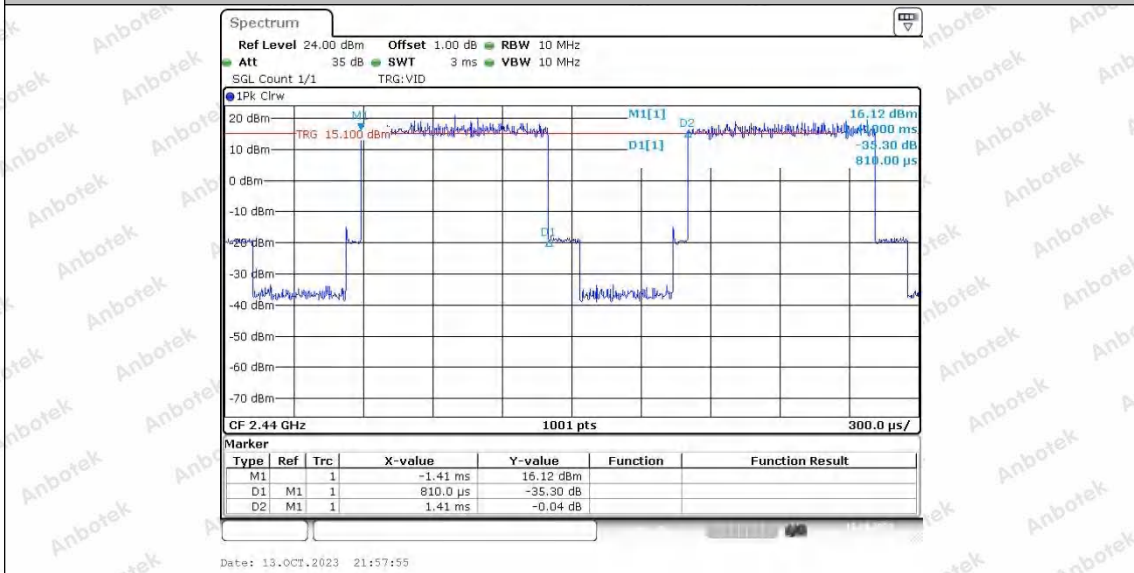


40M\_Ant1\_2440



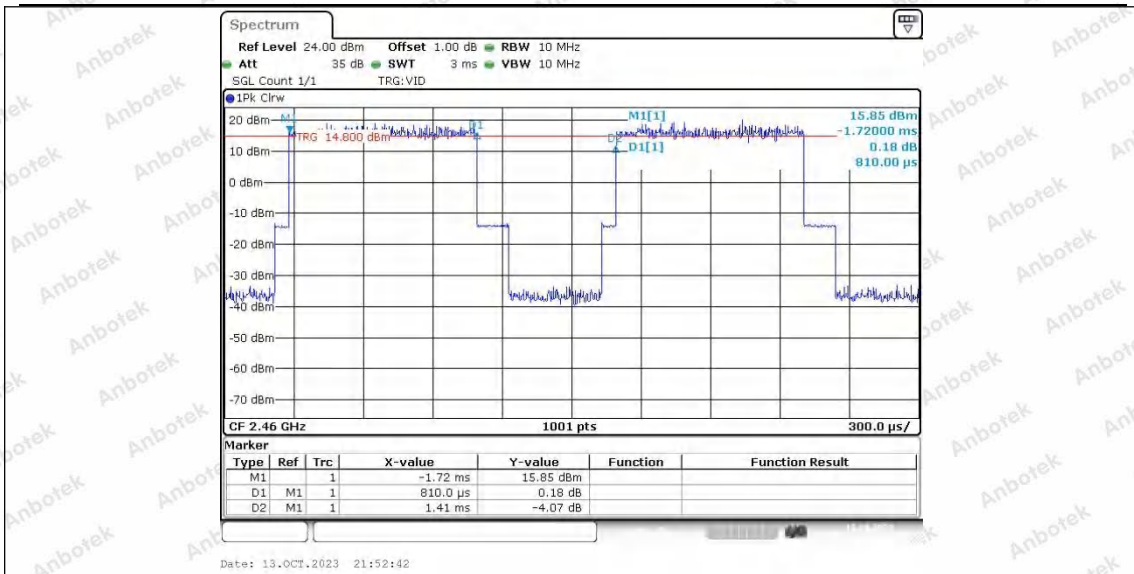


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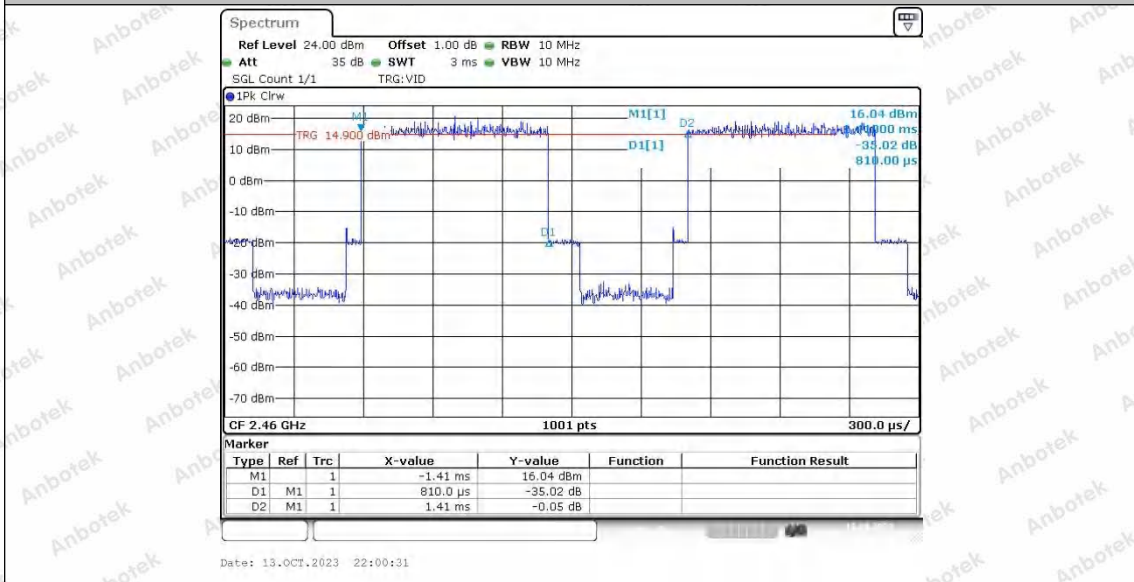


40M\_Ant1\_2460





## 40M\_Ant2\_2460



---End---

