

## Appendix Test Data

Report No.:	18220WC30201904	Test Sample No.:	1-2-2
Start Test Date:	2023.10.09	Finish Test Date:	2023.10.19
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.6°C	Relative Humidity:	49.2%
Pressure:	101kPa		

## Appendix A1: Emission Bandwidth

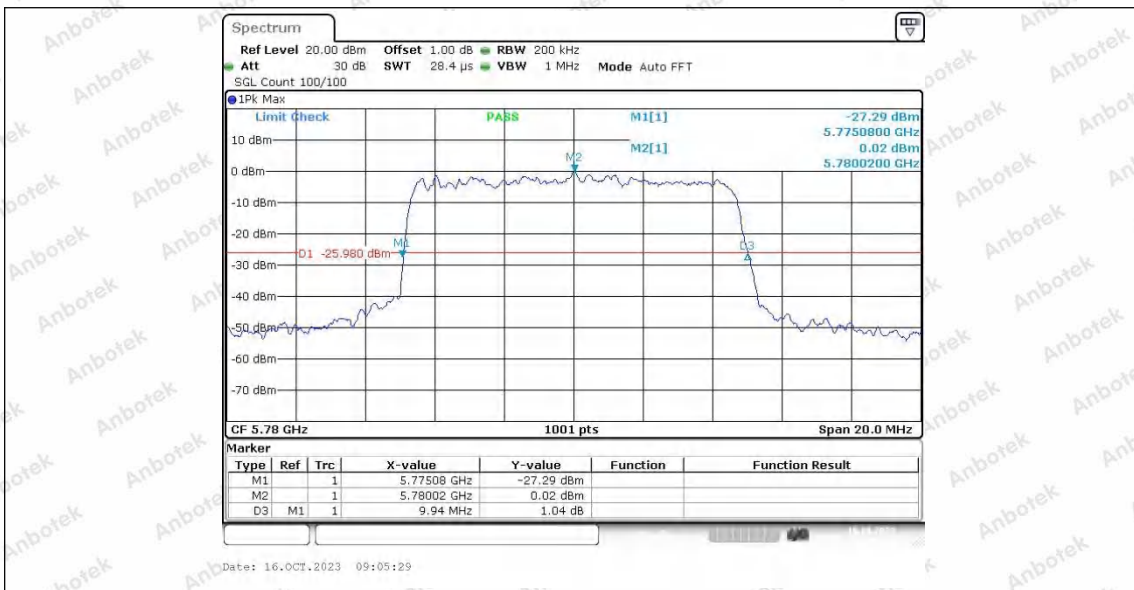
## Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
10M	Ant1	5740	9.96	5735.04	5745.00	---	---
	Ant2	5740	9.96	5735.06	5745.02	---	---
	Ant1	5780	9.94	5775.08	5785.02	---	---
	Ant2	5780	9.88	5775.06	5784.94	---	---
	Ant1	5820	9.86	5815.06	5824.92	---	---
	Ant2	5820	9.82	5815.08	5824.90	---	---
20M	Ant1	5740	19.44	5730.28	5749.72	---	---
	Ant2	5740	19.36	5730.28	5749.64	---	---
	Ant1	5780	19.68	5770.28	5789.96	---	---
	Ant2	5780	19.32	5770.32	5789.64	---	---
	Ant1	5820	19.40	5810.24	5829.64	---	---
	Ant2	5820	19.48	5810.24	5829.72	---	---
40M	Ant1	5760	38.64	5740.64	5779.28	---	---
	Ant2	5760	38.32	5740.88	5779.20	---	---
	Ant1	5780	38.40	5760.80	5799.20	---	---
	Ant2	5780	38.40	5760.80	5799.20	---	---
	Ant1	5820	38.48	5800.72	5839.20	---	---
	Ant2	5820	38.48	5800.88	5839.36	---	---

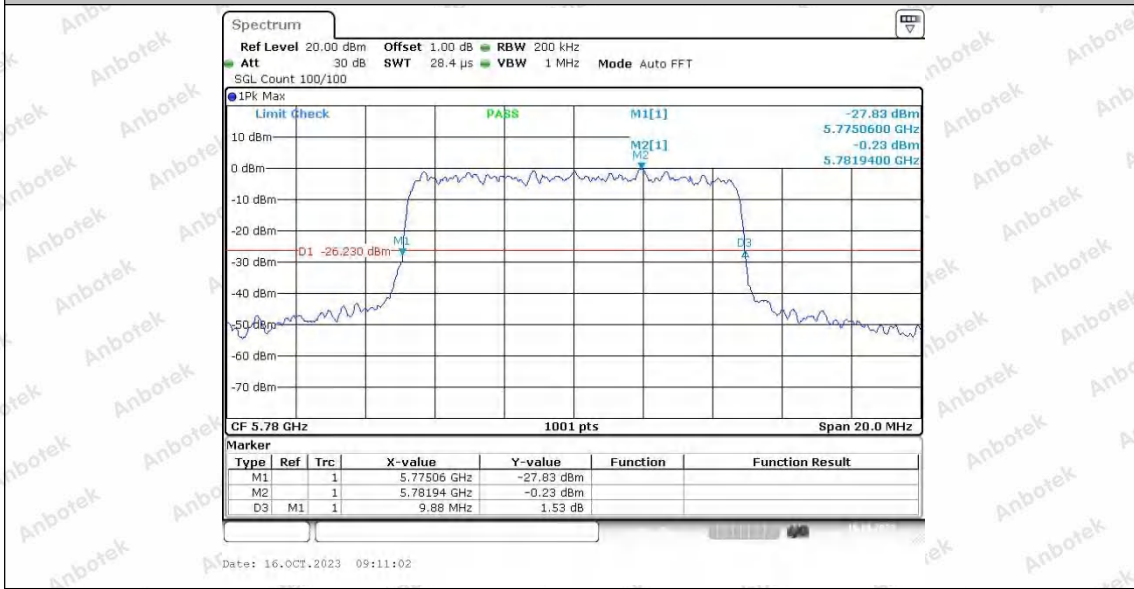


## Test Graphs

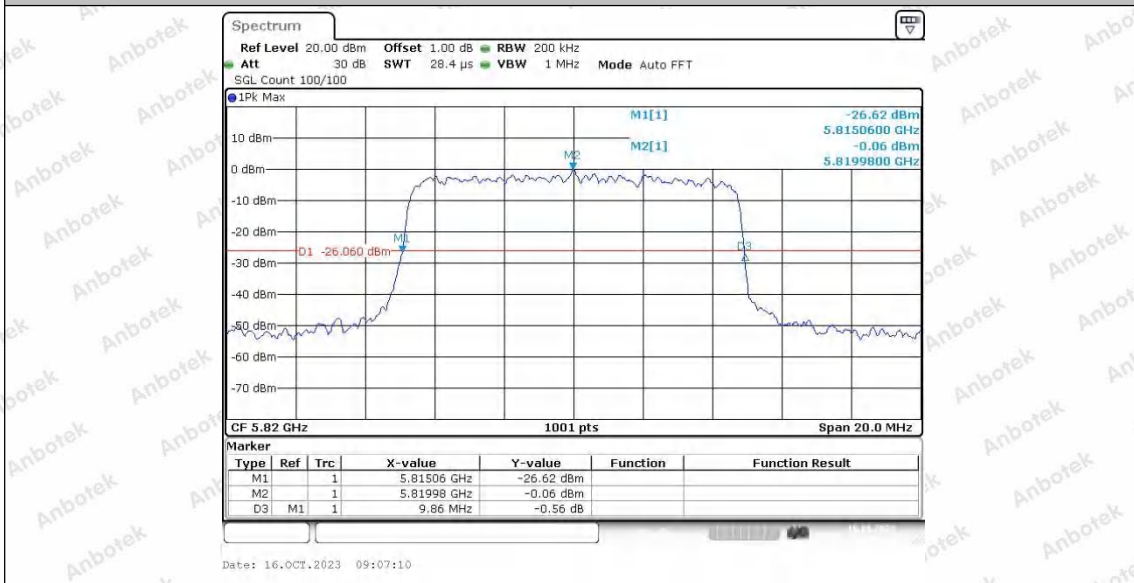




10M\_Ant2\_5780



10M\_Ant1\_5820

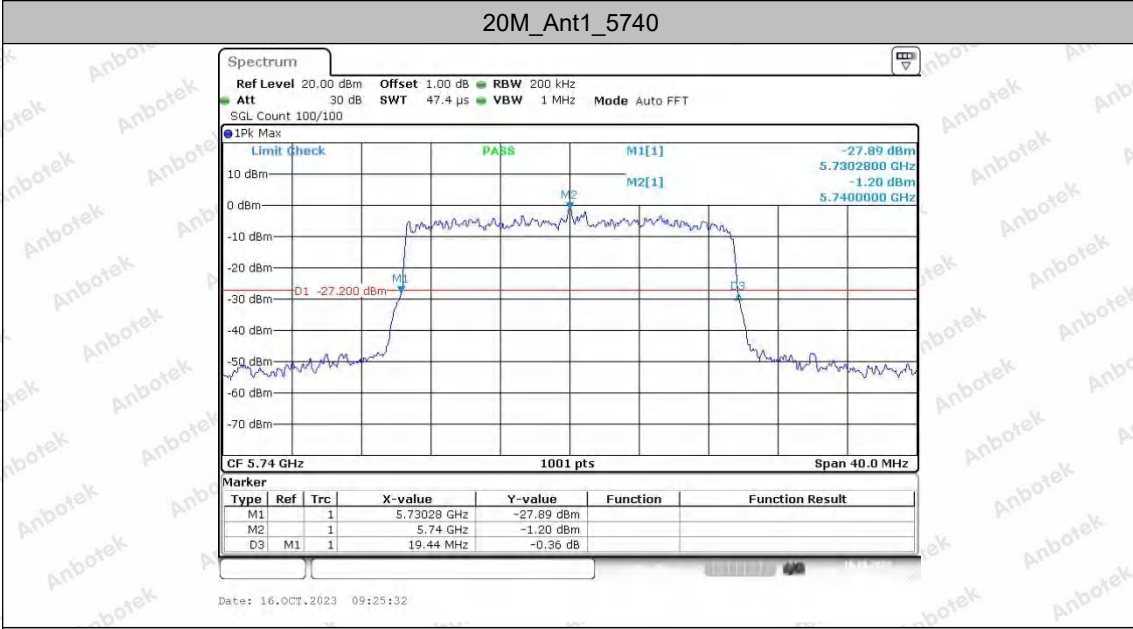
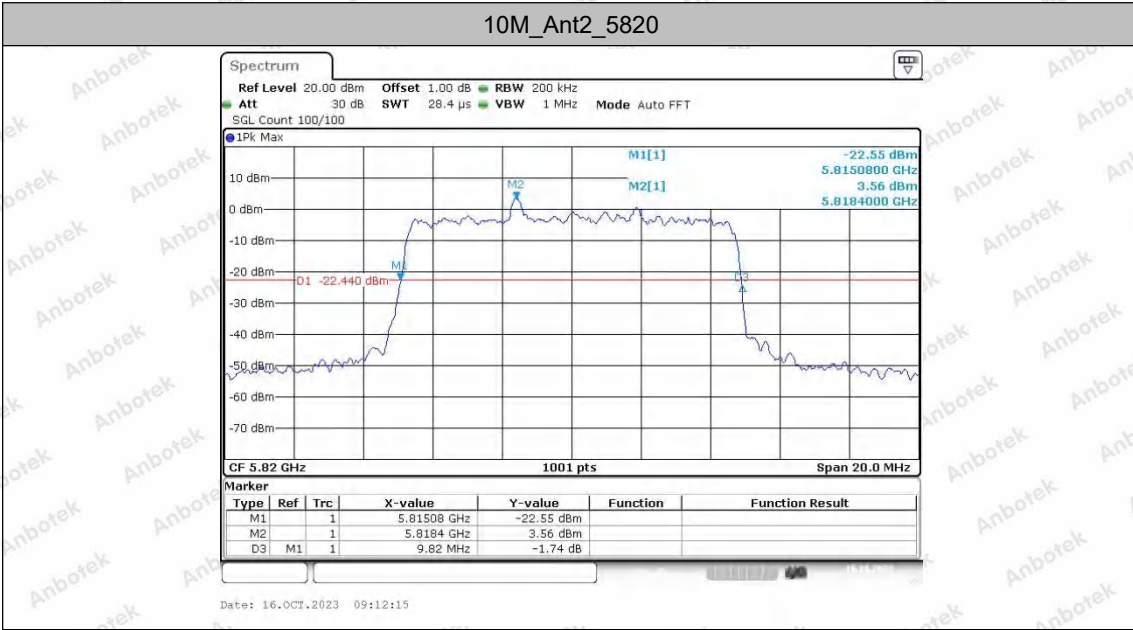


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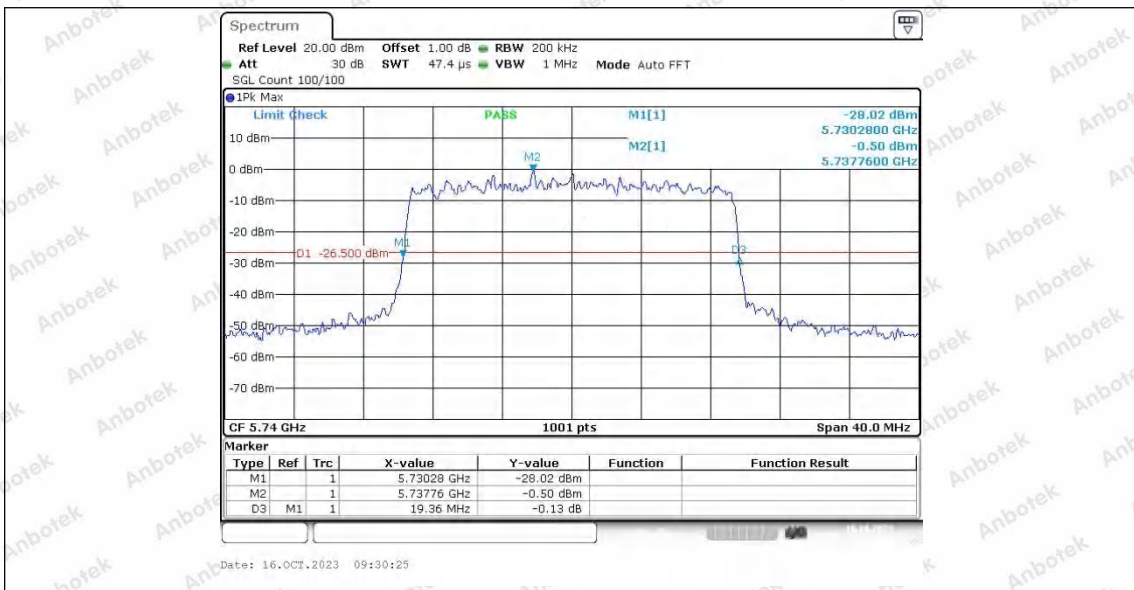
20M\_Ant2\_5740

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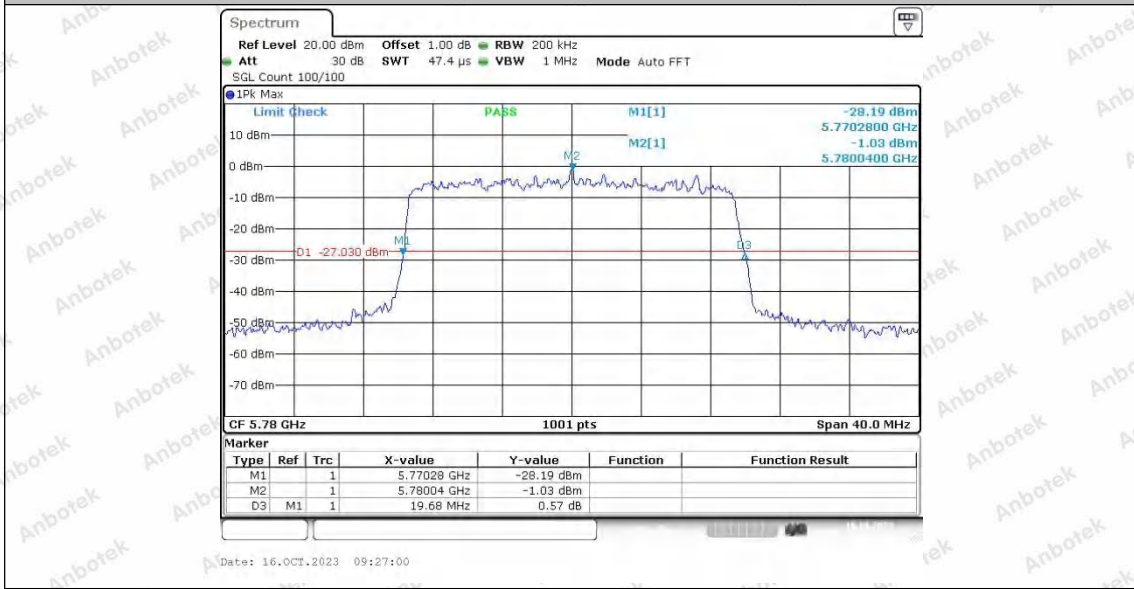
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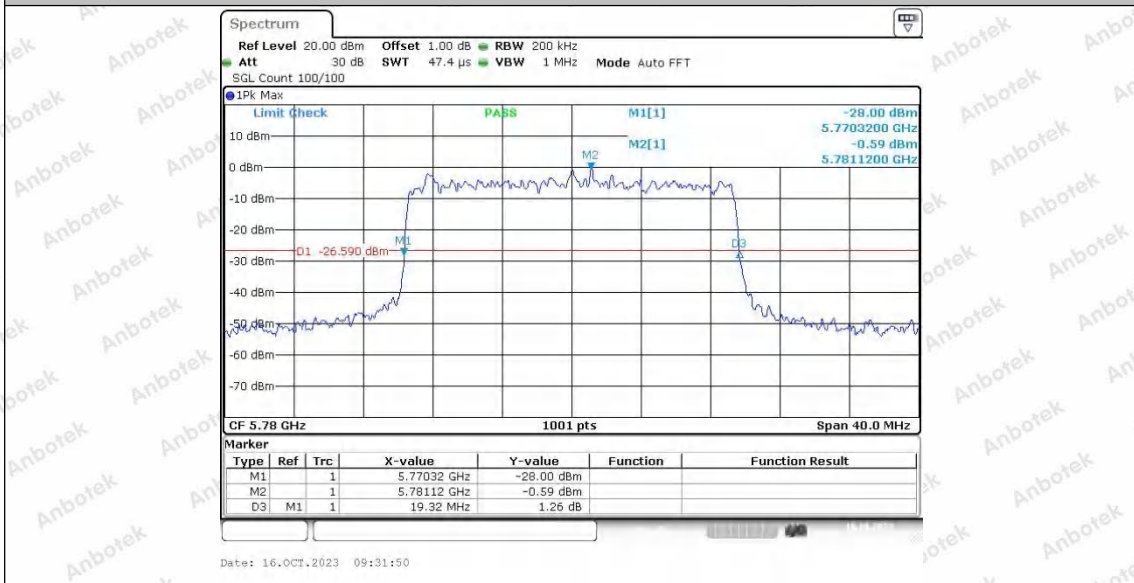




20M\_Ant1\_5780



20M\_Ant2\_5780



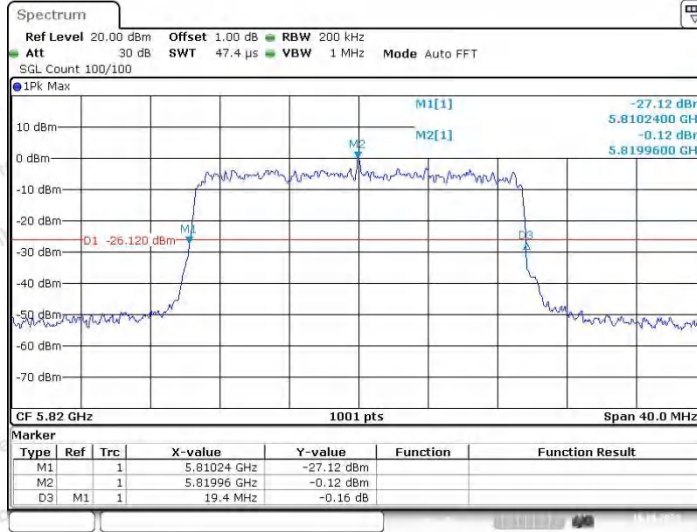
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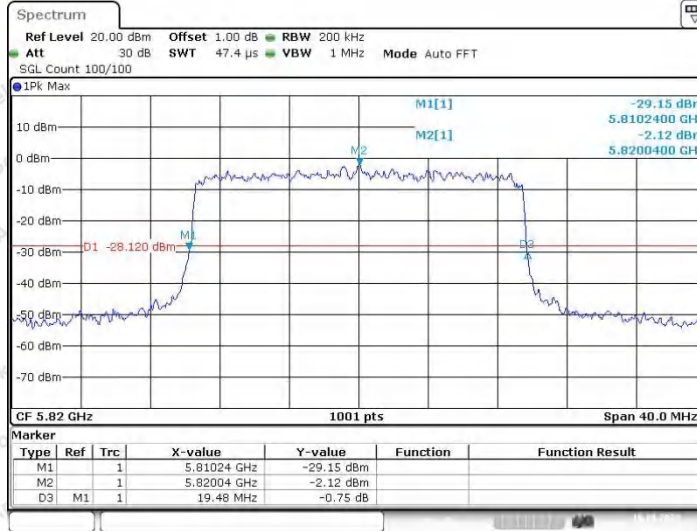
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## 20M\_Ant1\_5820



## 20M\_Ant2\_5820



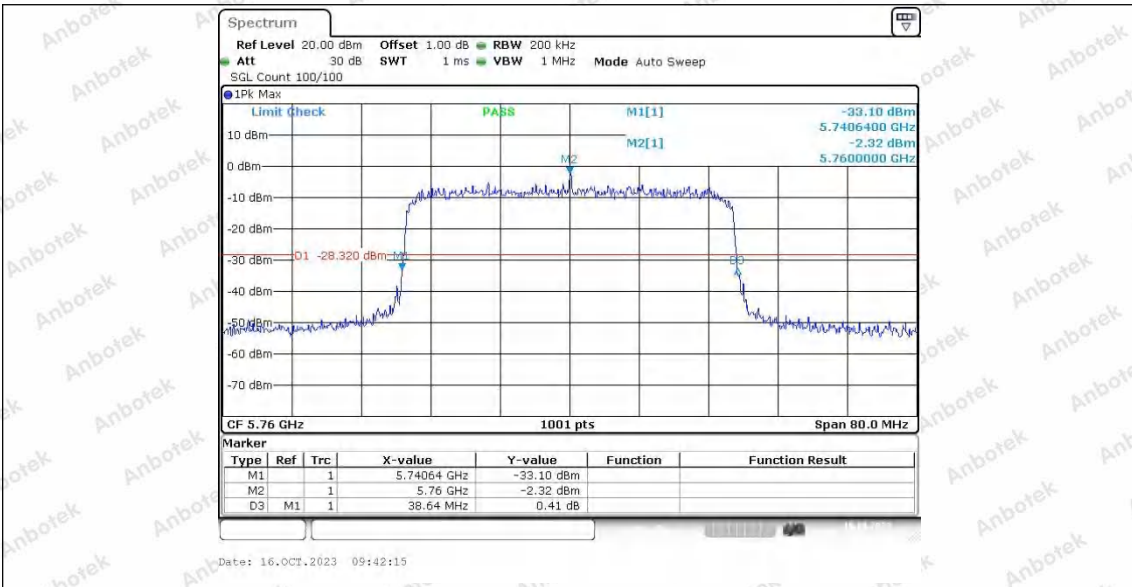
## 40M\_Ant1\_5760

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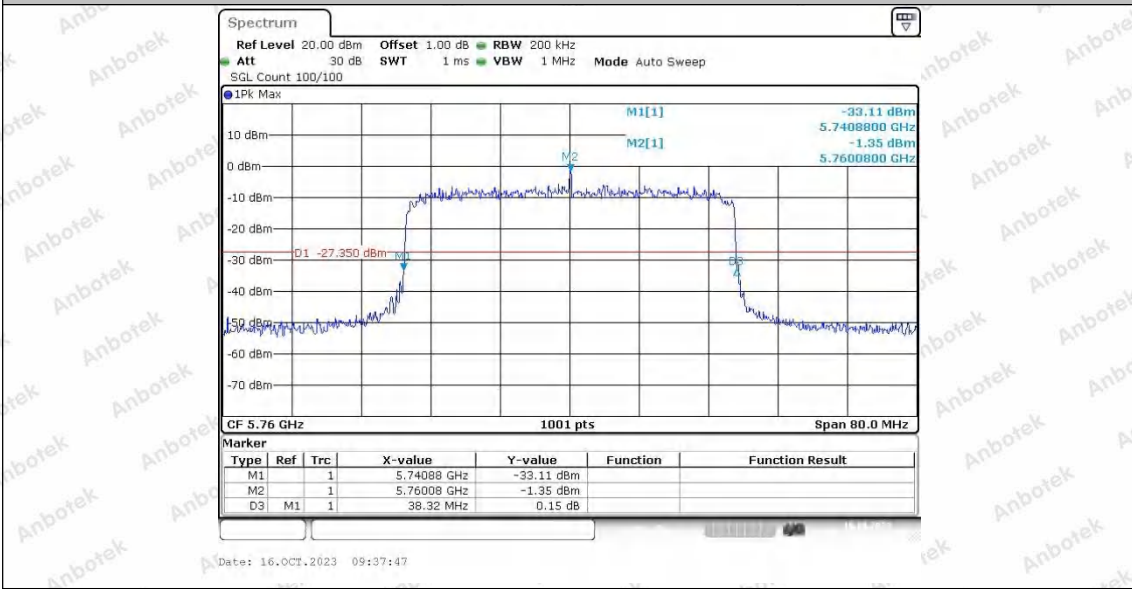
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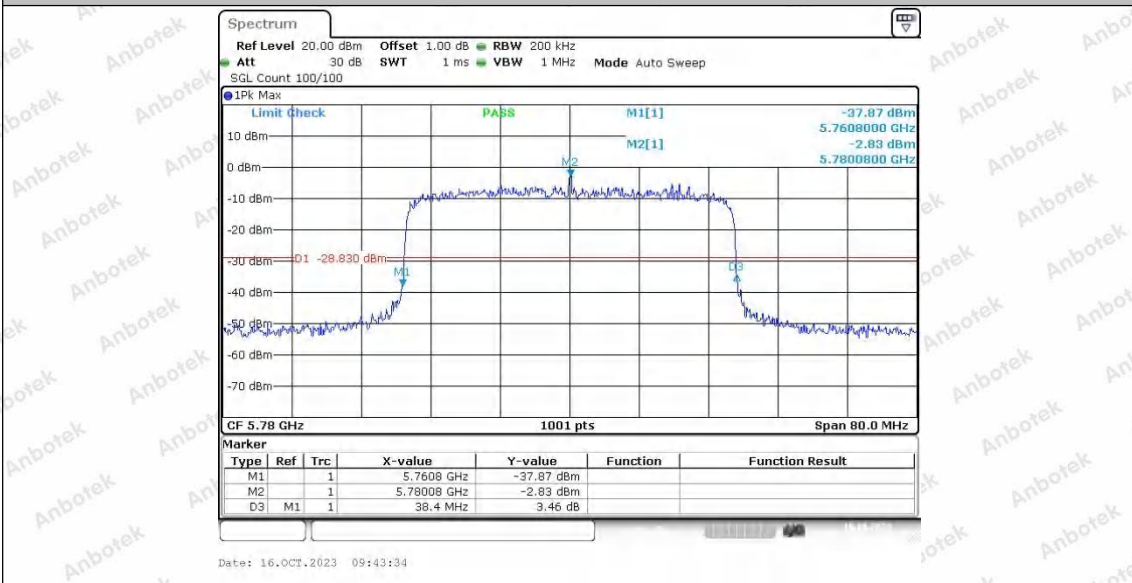




40M\_Ant2\_5760



40M\_Ant1\_5780



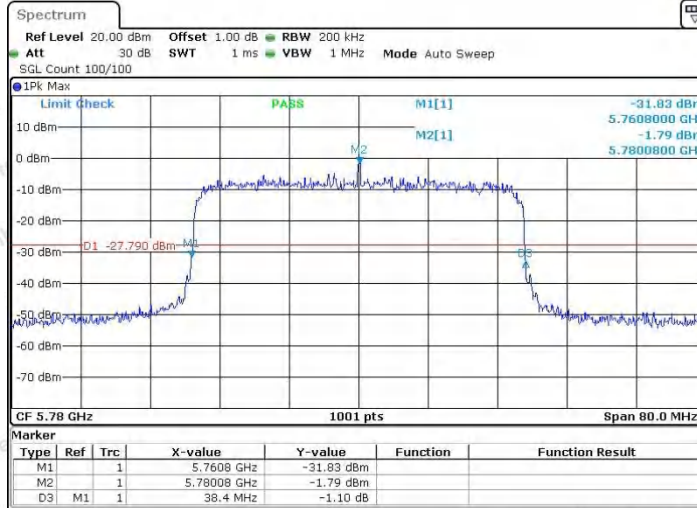
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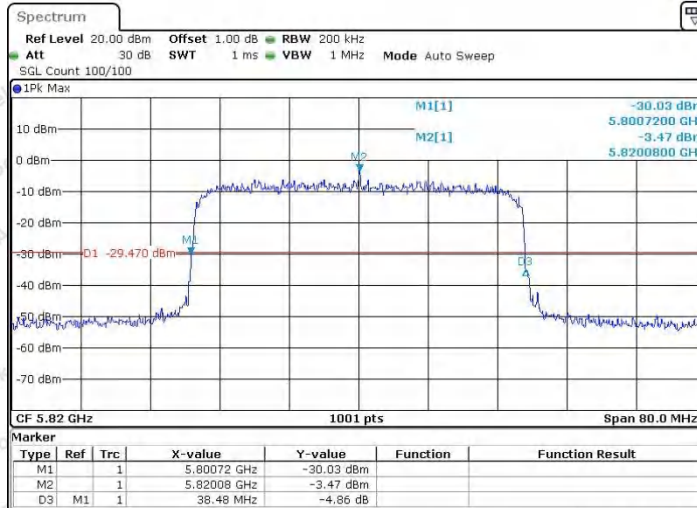


### 40M\_Ant2\_5780



Date: 16.OCT.2023 09:39:05

### 40M\_Ant1\_5820



Date: 16.OCT.2023 09:44:41

### 40M\_Ant2\_5820

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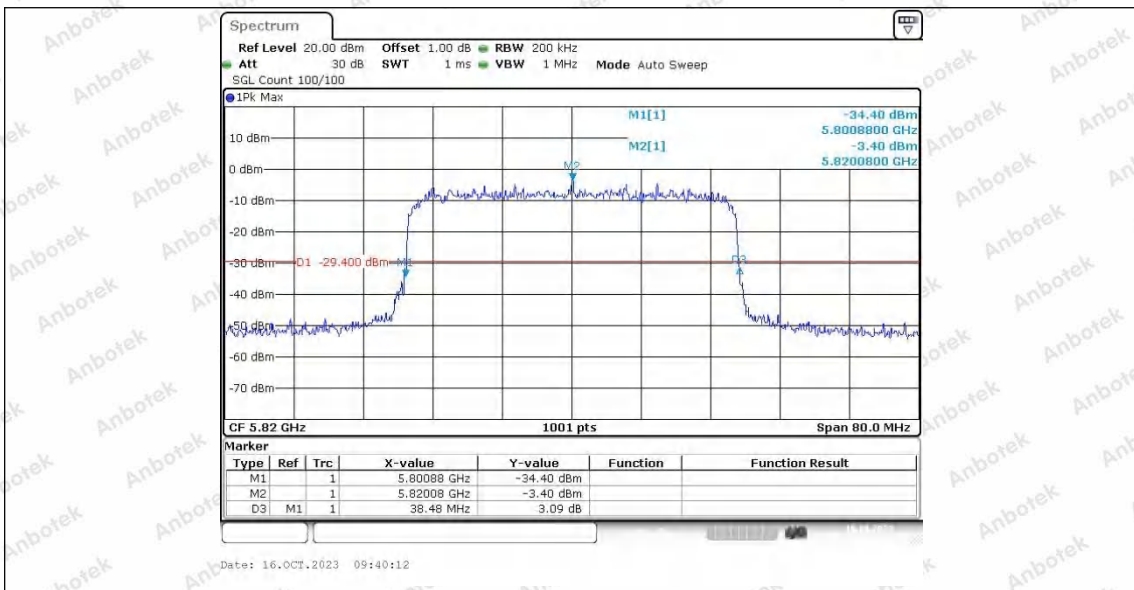
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## Appendix A2: Occupied channel bandwidth

### Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
10M	Ant1	5740	9.471	5735.2448	5744.7153	---	---
	Ant2	5740	9.471	5735.2647	5744.7353	---	---
	Ant1	5780	9.451	5775.3047	5784.7552	---	---
	Ant2	5780	9.471	5775.2647	5784.7353	---	---
	Ant1	5820	9.451	5815.2647	5824.7153	---	---
	Ant2	5820	9.471	5815.2847	5824.7552	---	---
20M	Ant1	5740	18.581	5730.7293	5749.3107	---	---
	Ant2	5740	18.581	5730.7293	5749.3107	---	---
	Ant1	5780	18.541	5770.7293	5789.2707	---	---
	Ant2	5780	18.581	5770.7293	5789.3107	---	---
	Ant1	5820	18.621	5810.6893	5829.3107	---	---
	Ant2	5820	18.581	5810.7293	5829.3107	---	---
40M	Ant1	5760	36.683	5741.6983	5778.3816	---	---
	Ant2	5760	36.683	5741.6983	5778.3816	---	---
	Ant1	5780	36.683	5761.6184	5798.3017	---	---
	Ant2	5780	36.683	5761.6184	5798.3017	---	---
	Ant1	5820	36.683	5801.6983	5838.3816	---	---
	Ant2	5820	36.763	5801.6184	5838.3816	---	---

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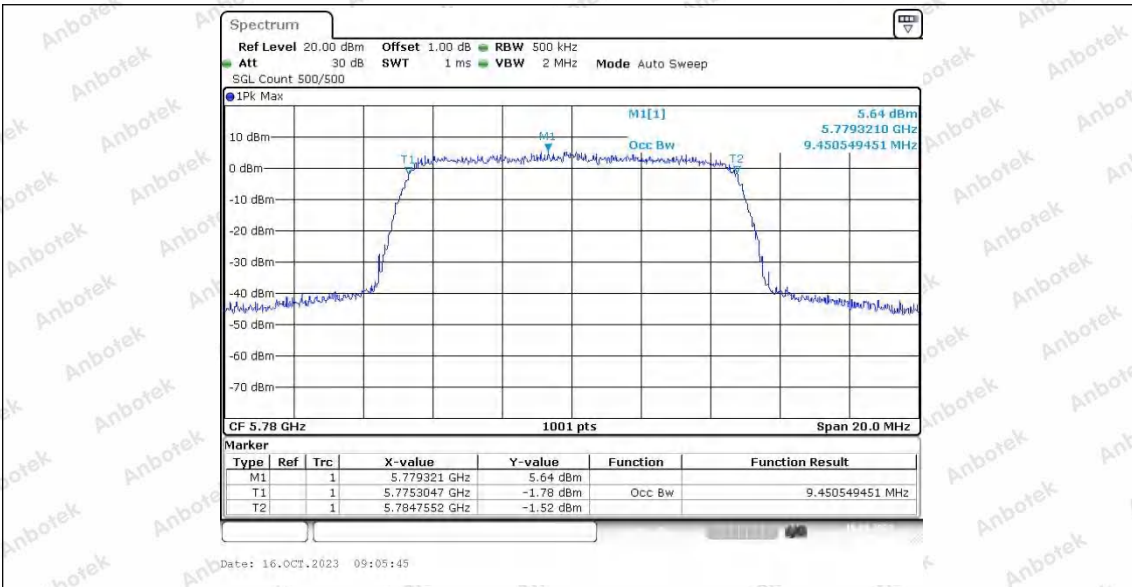


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## Test Graphs

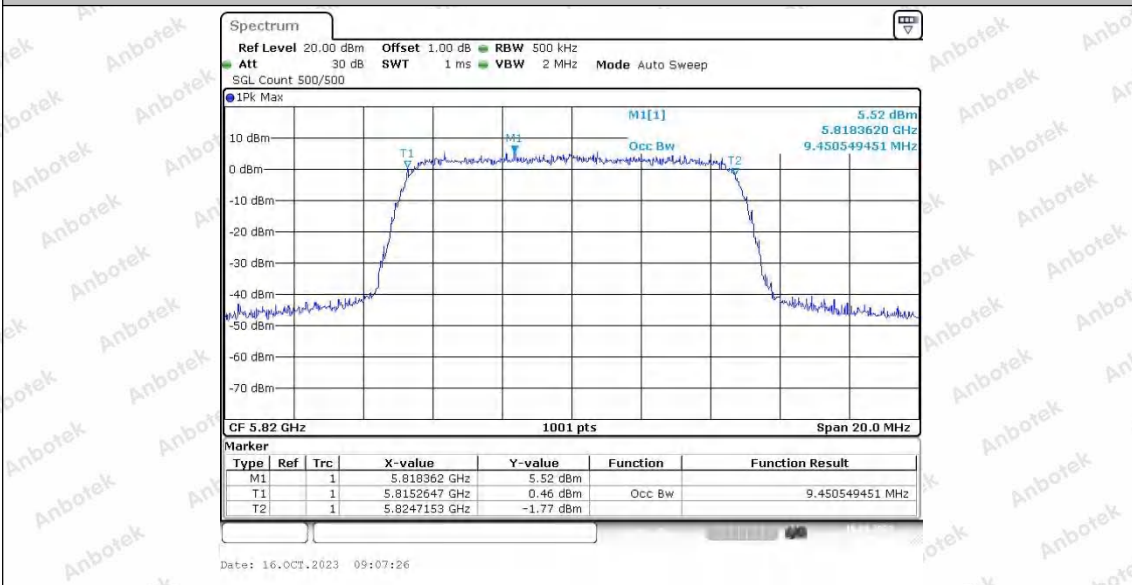




10M\_Ant2\_5780



10M\_Ant1\_5820



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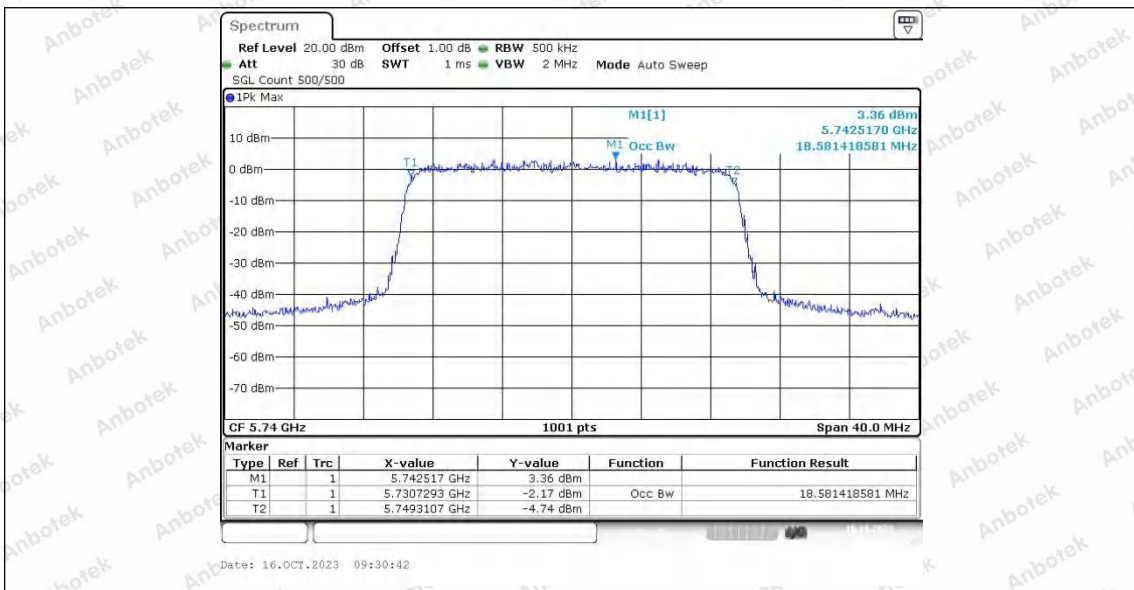


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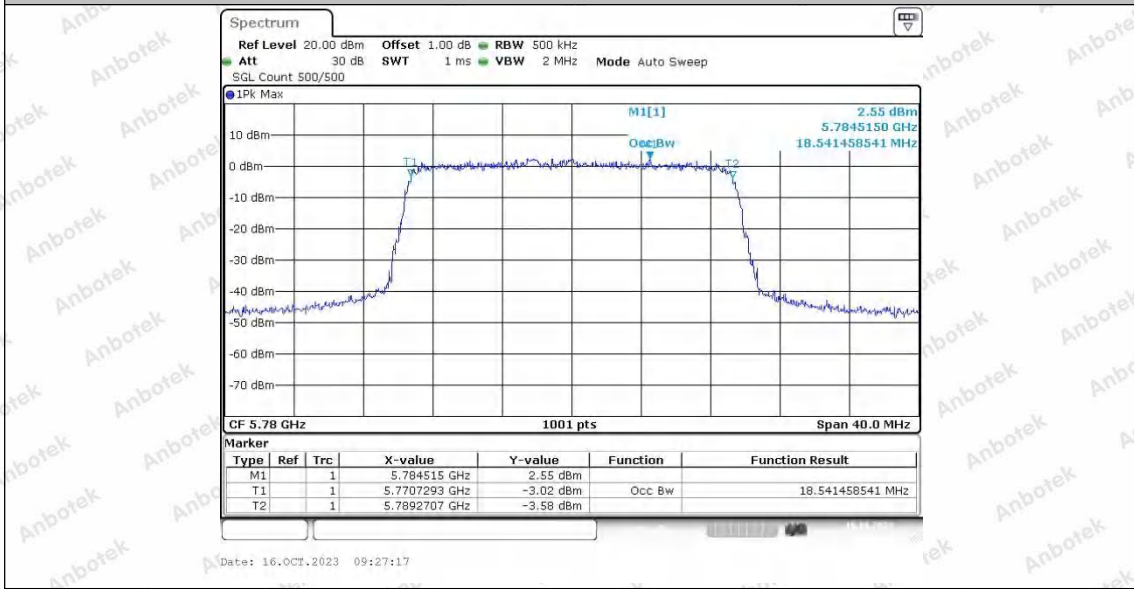
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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20M\_Ant1\_5780



20M\_Ant2\_5780



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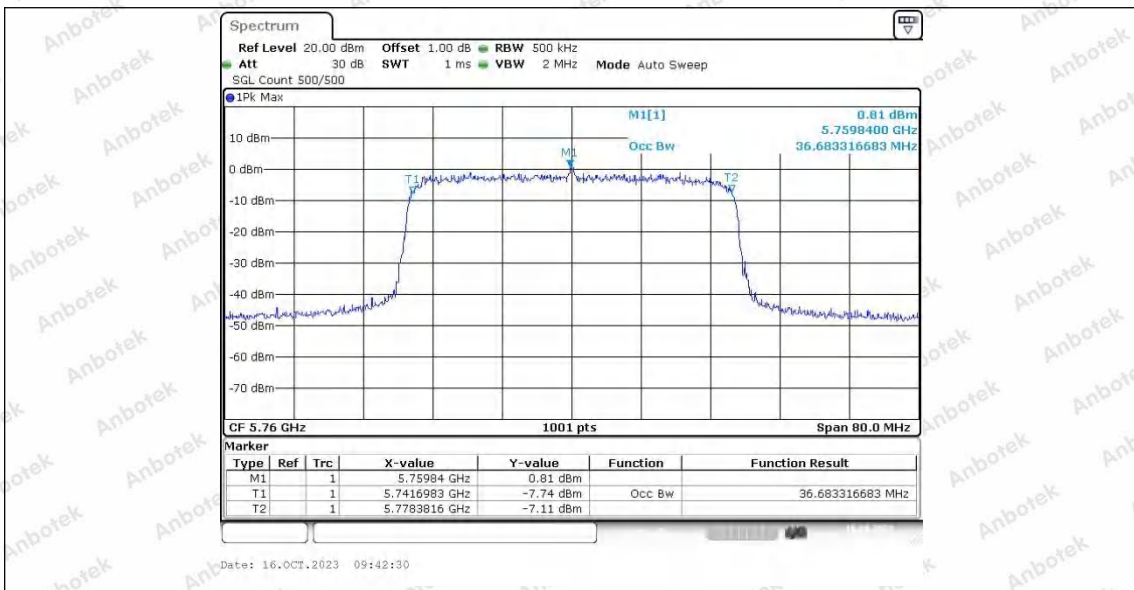


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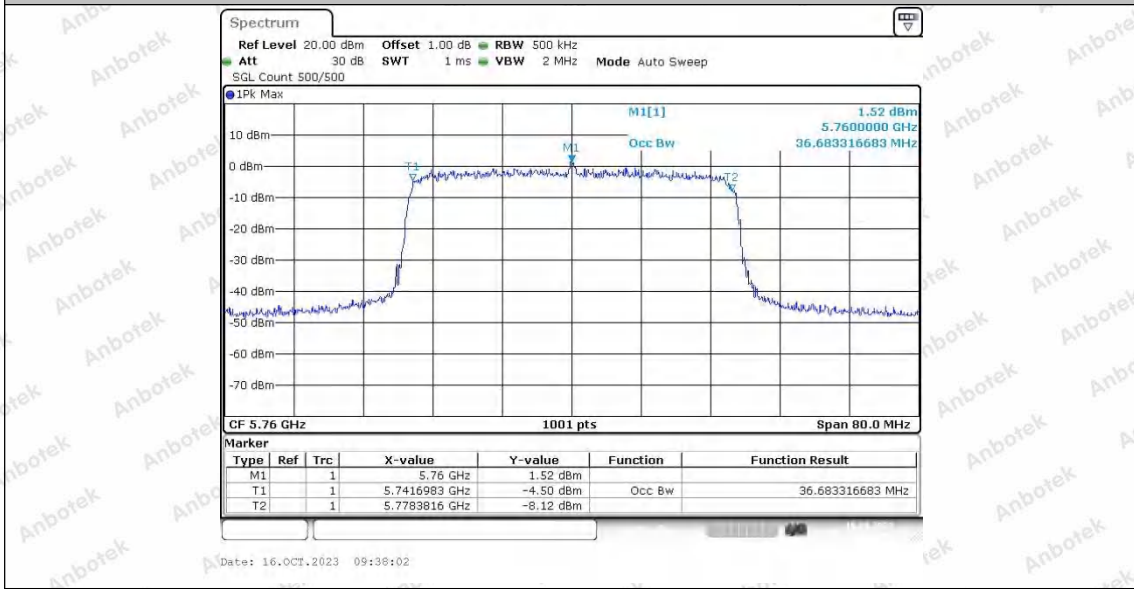
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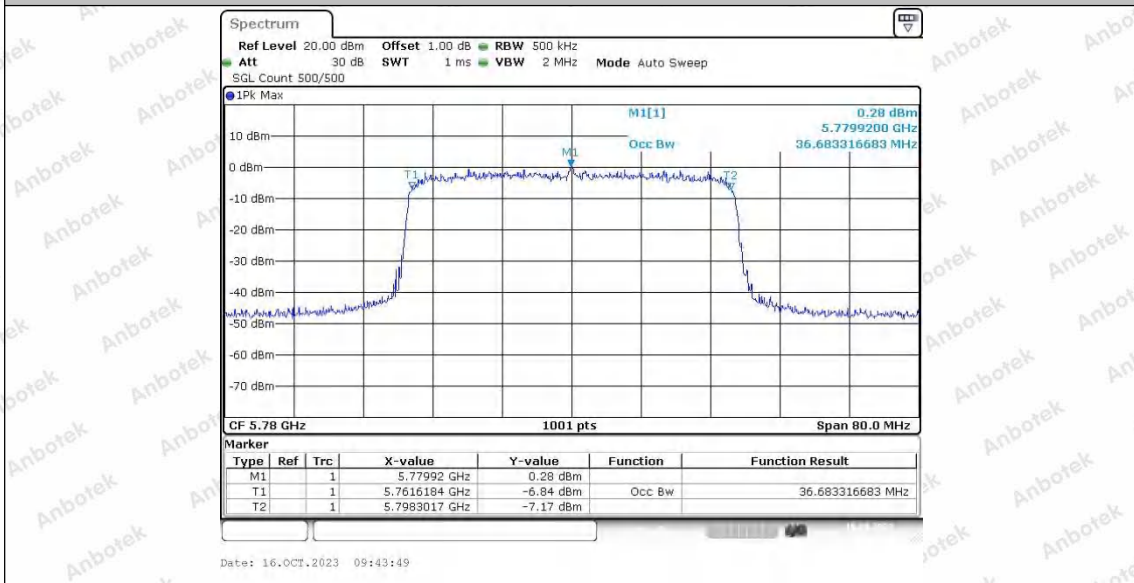




40M\_Ant2\_5760



40M\_Ant1\_5780



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## Appendix A3: Min emission bandwidth

### Test Result

TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
10M	Ant1	5740	9.18	5735.36	5744.54	0.5	PASS
	Ant2	5740	9.36	5735.30	5744.66	0.5	PASS
	Ant1	5780	9.26	5775.46	5784.72	0.5	PASS
	Ant2	5780	9.28	5775.32	5784.60	0.5	PASS
	Ant1	5820	9.02	5815.44	5824.46	0.5	PASS
	Ant2	5820	9.36	5815.28	5824.64	0.5	PASS
20M	Ant1	5740	17.72	5730.96	5748.68	0.5	PASS
	Ant2	5740	18.28	5730.76	5749.04	0.5	PASS
	Ant1	5780	17.20	5771.28	5788.48	0.5	PASS
	Ant2	5780	17.52	5771.40	5788.92	0.5	PASS
	Ant1	5820	17.08	5810.84	5827.92	0.5	PASS
	Ant2	5820	17.64	5811.24	5828.88	0.5	PASS
40M	Ant1	5760	33.52	5744.08	5777.60	0.5	PASS
	Ant2	5760	27.60	5745.92	5773.52	0.5	PASS
	Ant1	5780	30.80	5763.92	5794.72	0.5	PASS
	Ant2	5780	25.84	5766.72	5792.56	0.5	PASS
	Ant1	5820	34.08	5802.80	5836.88	0.5	PASS
	Ant2	5820	33.52	5803.36	5836.88	0.5	PASS

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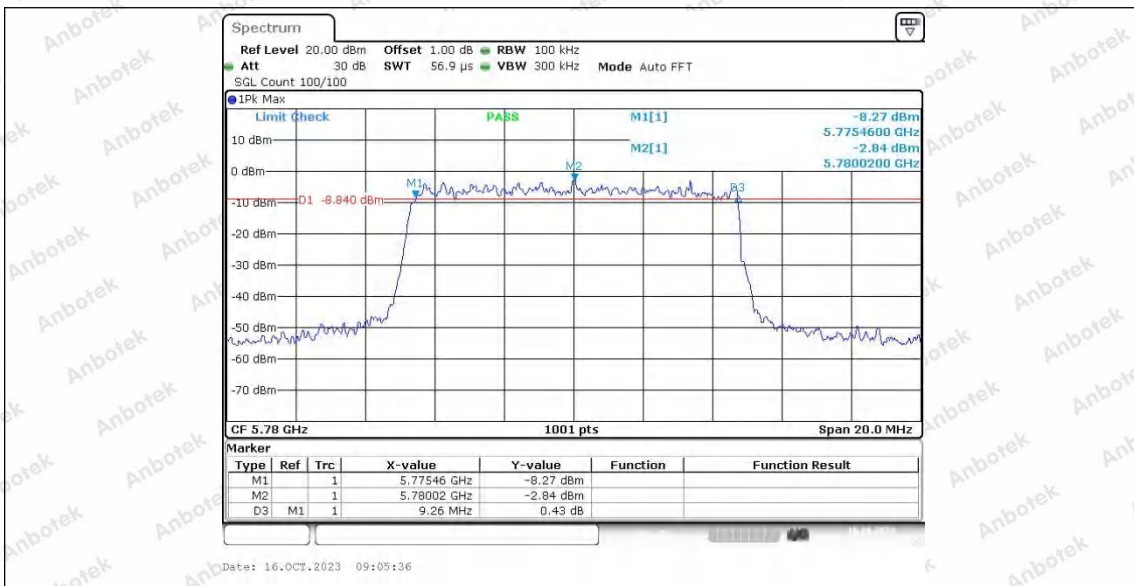


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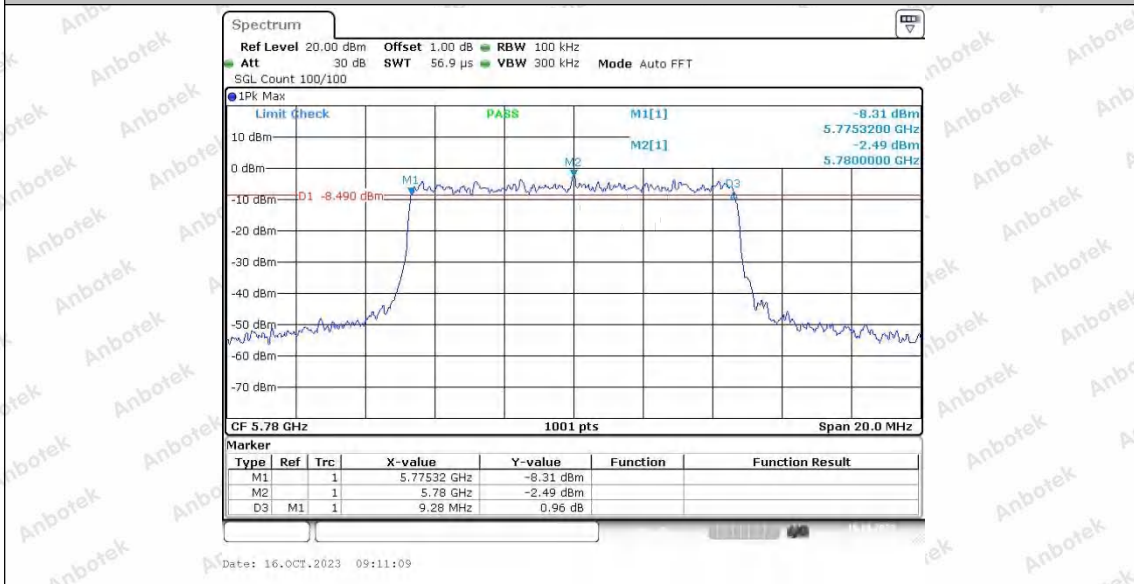


## Test Graphs

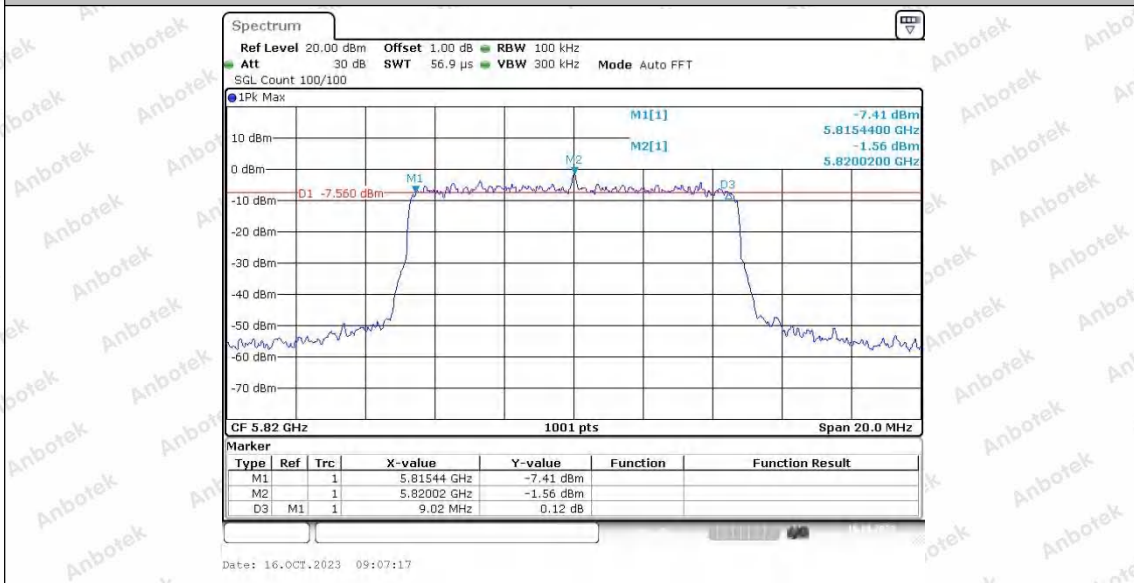




10M\_Ant2\_5780



10M\_Ant1\_5820

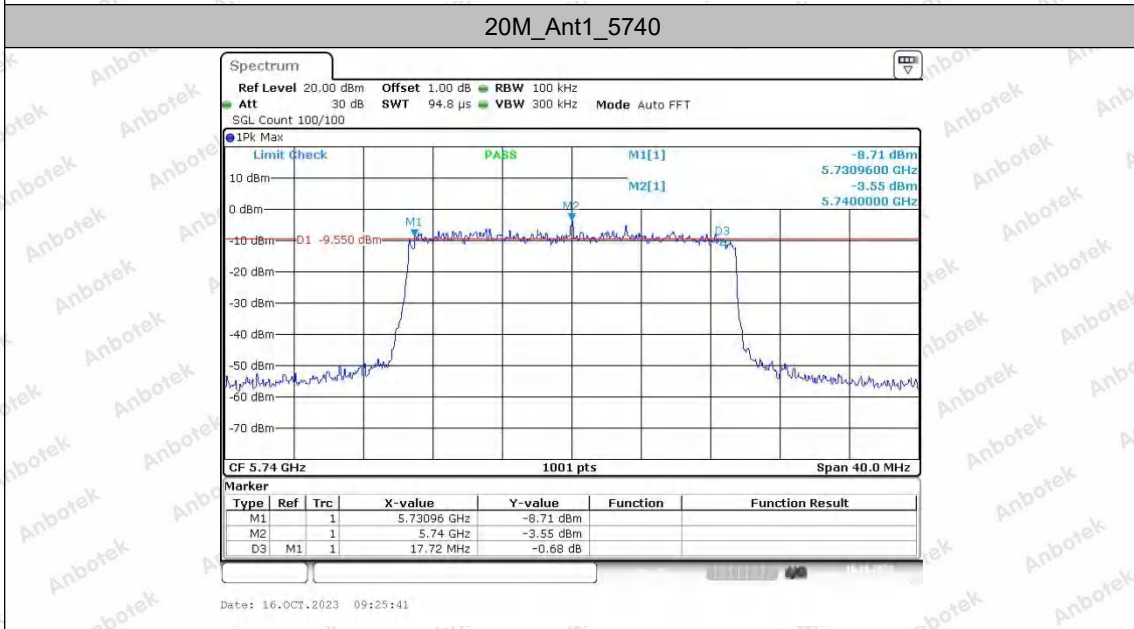
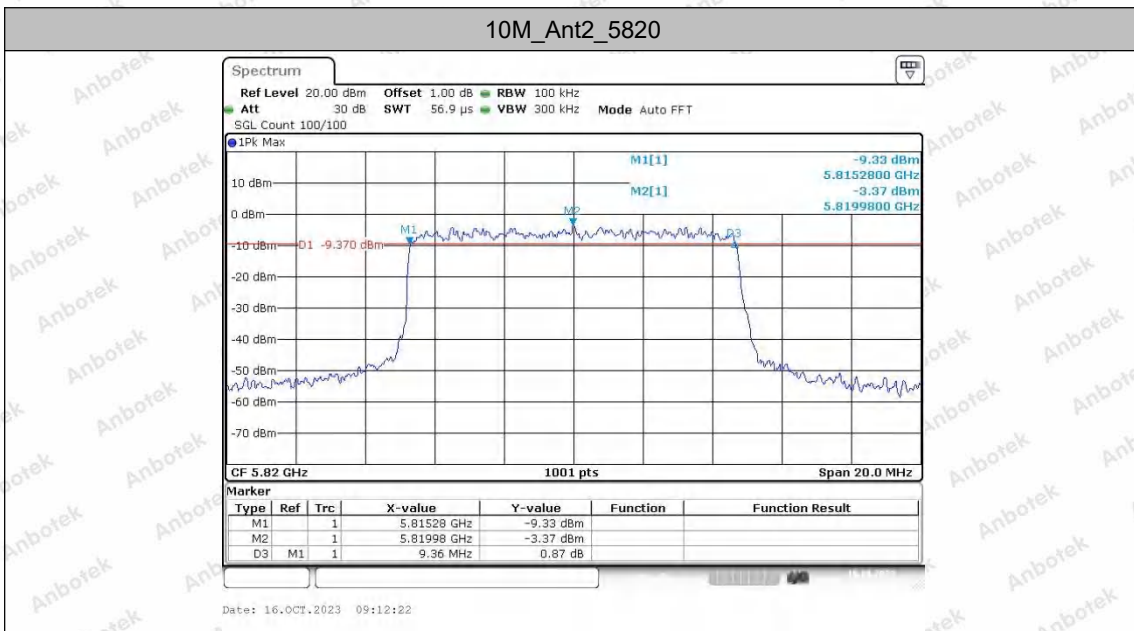


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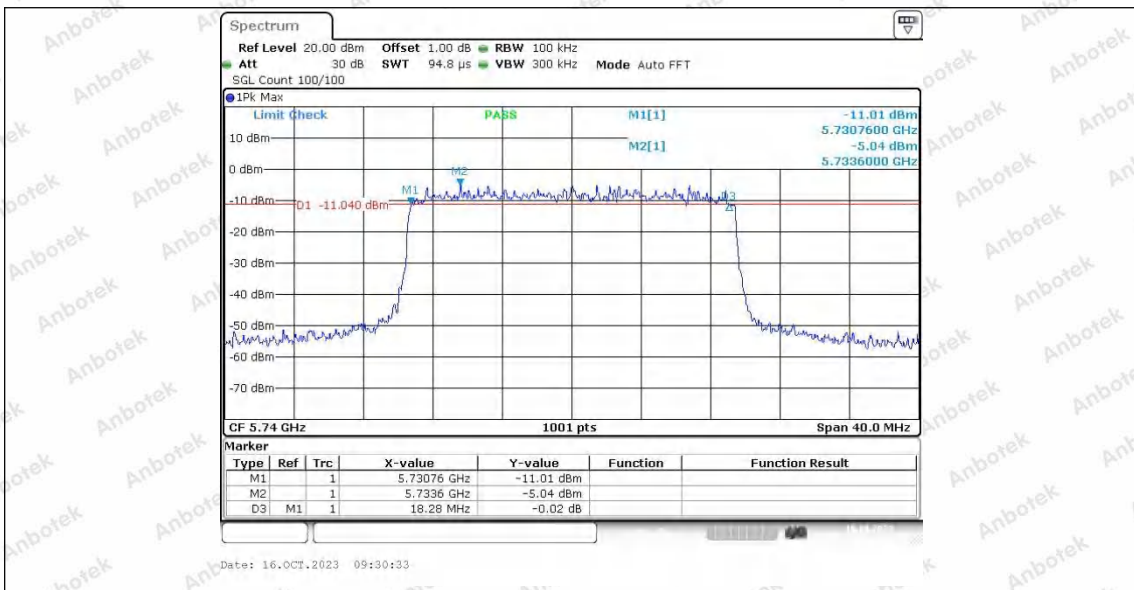
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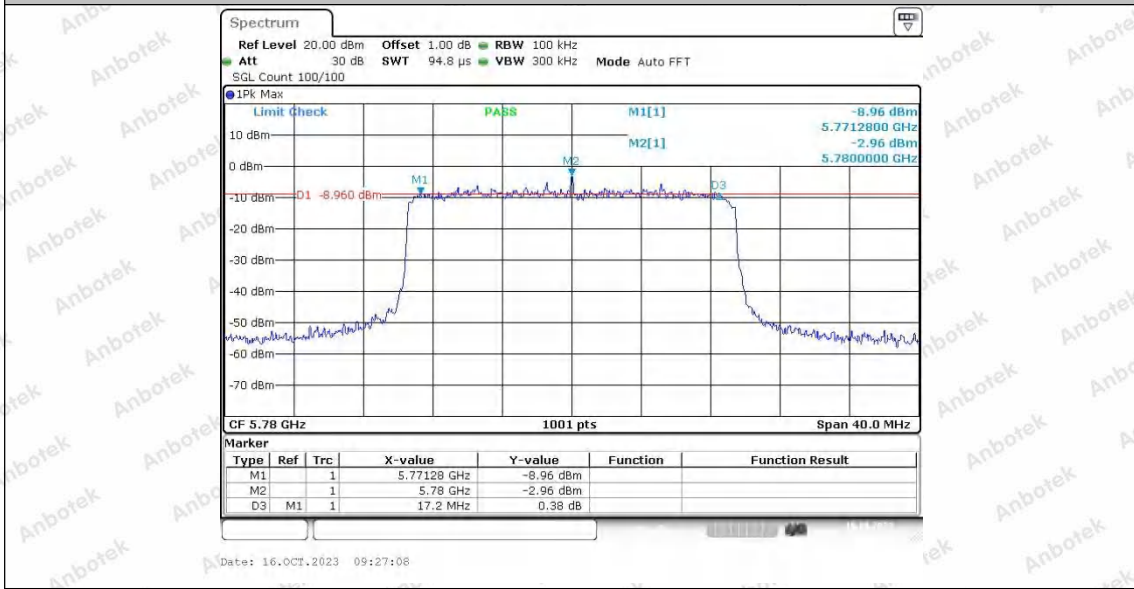


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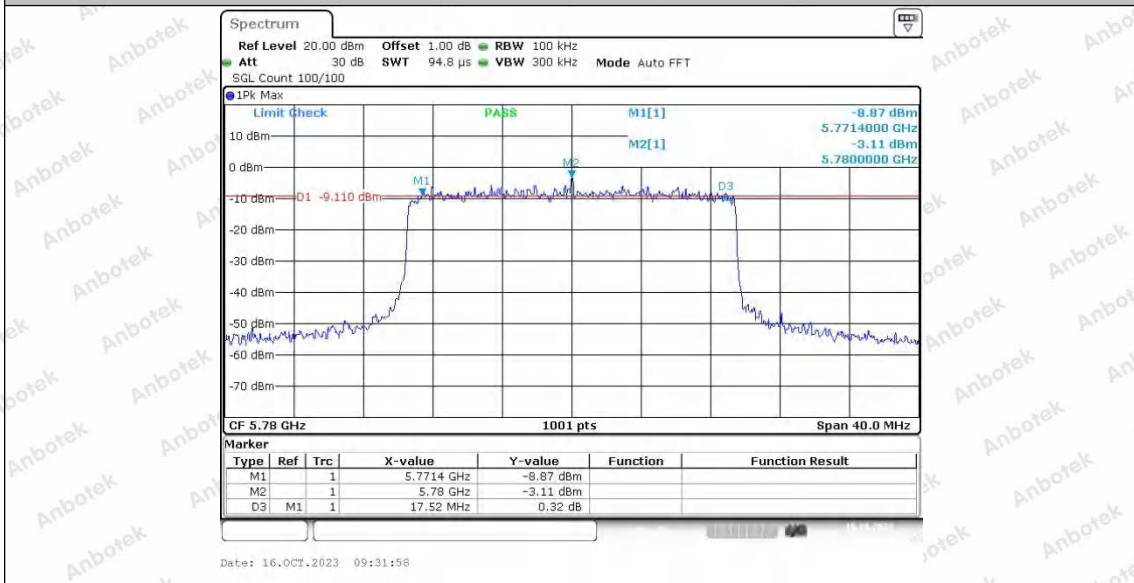




20M\_Ant1\_5780



20M\_Ant2\_5780

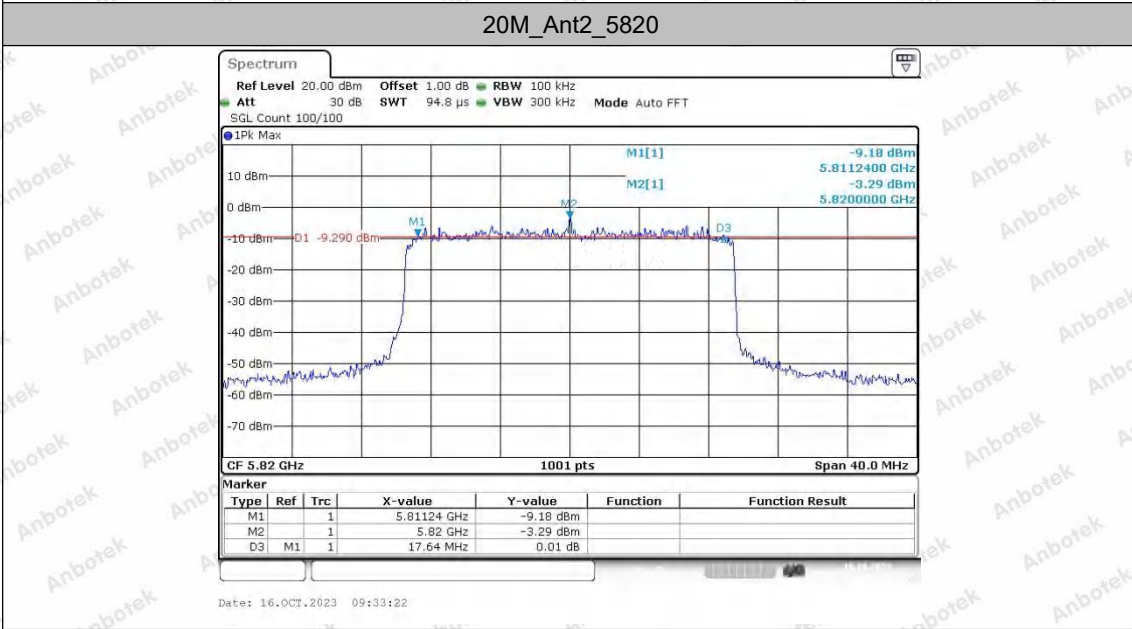
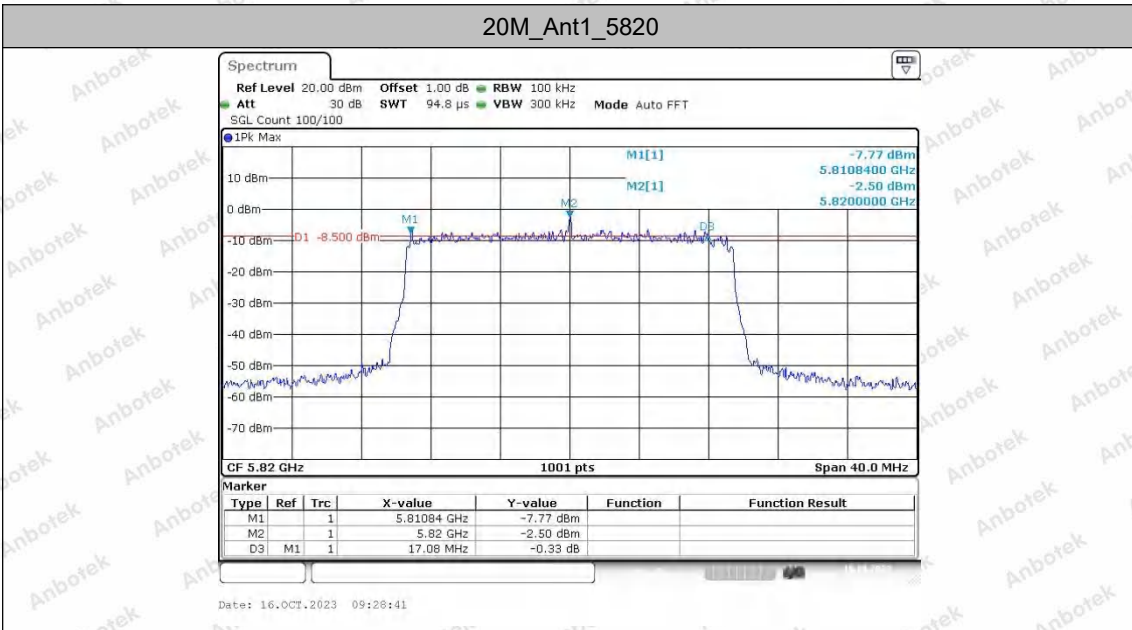


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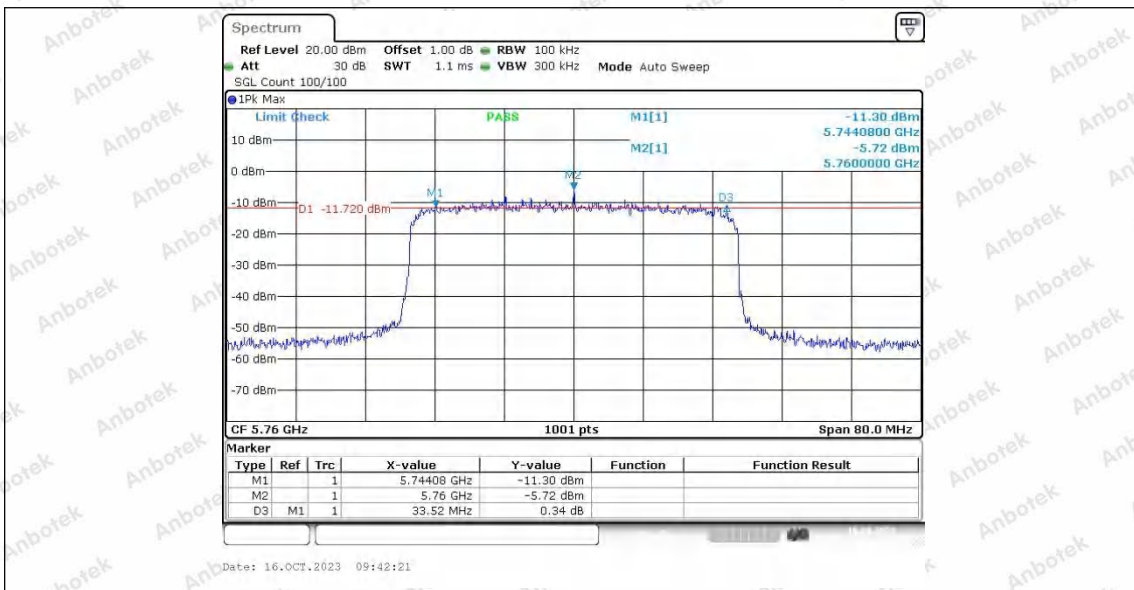




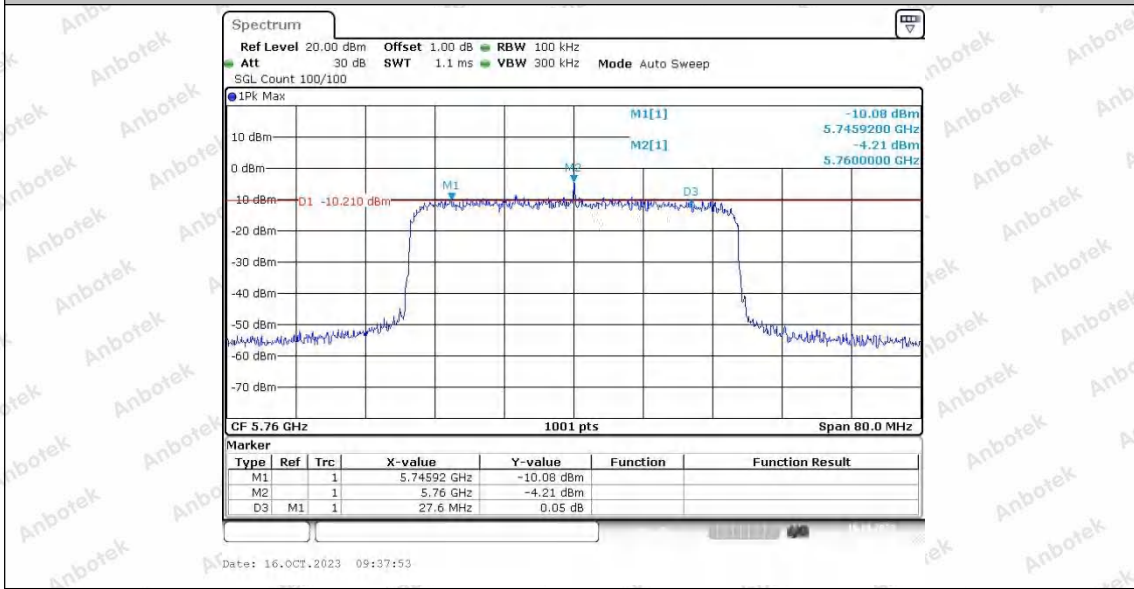
### 40M\_Ant1\_5760



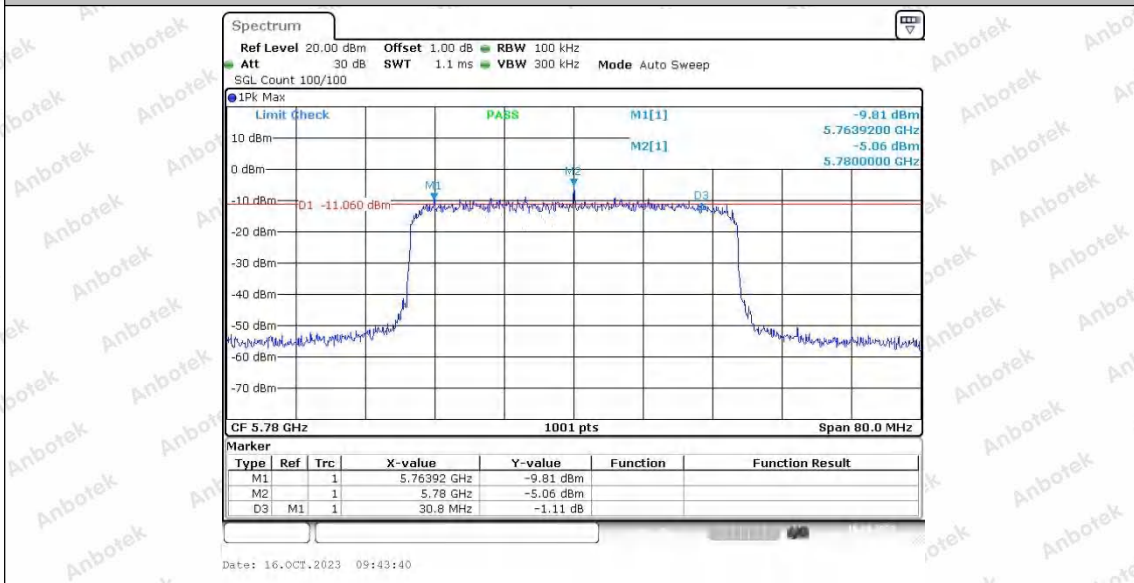




40M\_Ant2\_5760



40M\_Ant1\_5780



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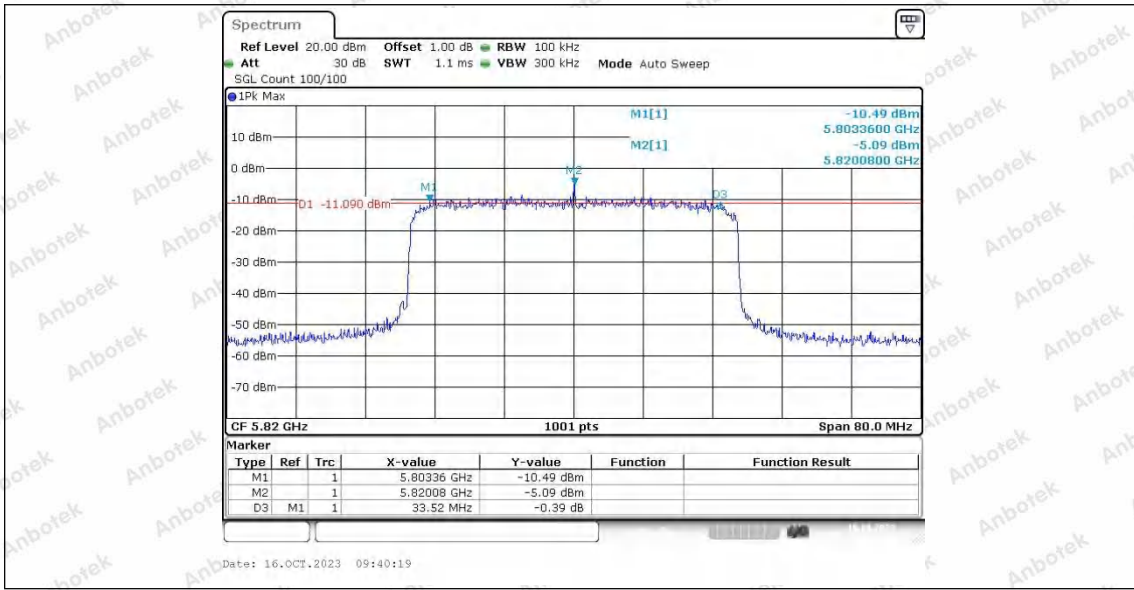
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## Appendix B: Duty Cycle

### Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
10M	Ant1	5740	1.63	2.23	73.09
	Ant2	5740	1.62	2.22	72.97
	Ant1	5780	1.63	2.23	73.09
	Ant2	5780	1.62	2.22	72.97
	Ant1	5820	1.63	2.23	73.09
	Ant2	5820	1.62	2.22	72.97
20M	Ant1	5740	1.62	2.22	72.97
	Ant2	5740	1.63	2.23	73.09
	Ant1	5780	1.63	2.23	73.09
	Ant2	5780	1.62	2.22	72.97
	Ant1	5820	1.62	2.22	72.97
	Ant2	5820	1.63	2.23	73.09
40M	Ant1	5760	0.81	1.47	55.10
	Ant2	5760	0.81	1.47	55.10
	Ant1	5780	0.82	1.42	57.75
	Ant2	5780	0.81	1.41	57.45
	Ant1	5820	0.81	1.41	57.45
	Ant2	5820	0.81	1.41	57.45

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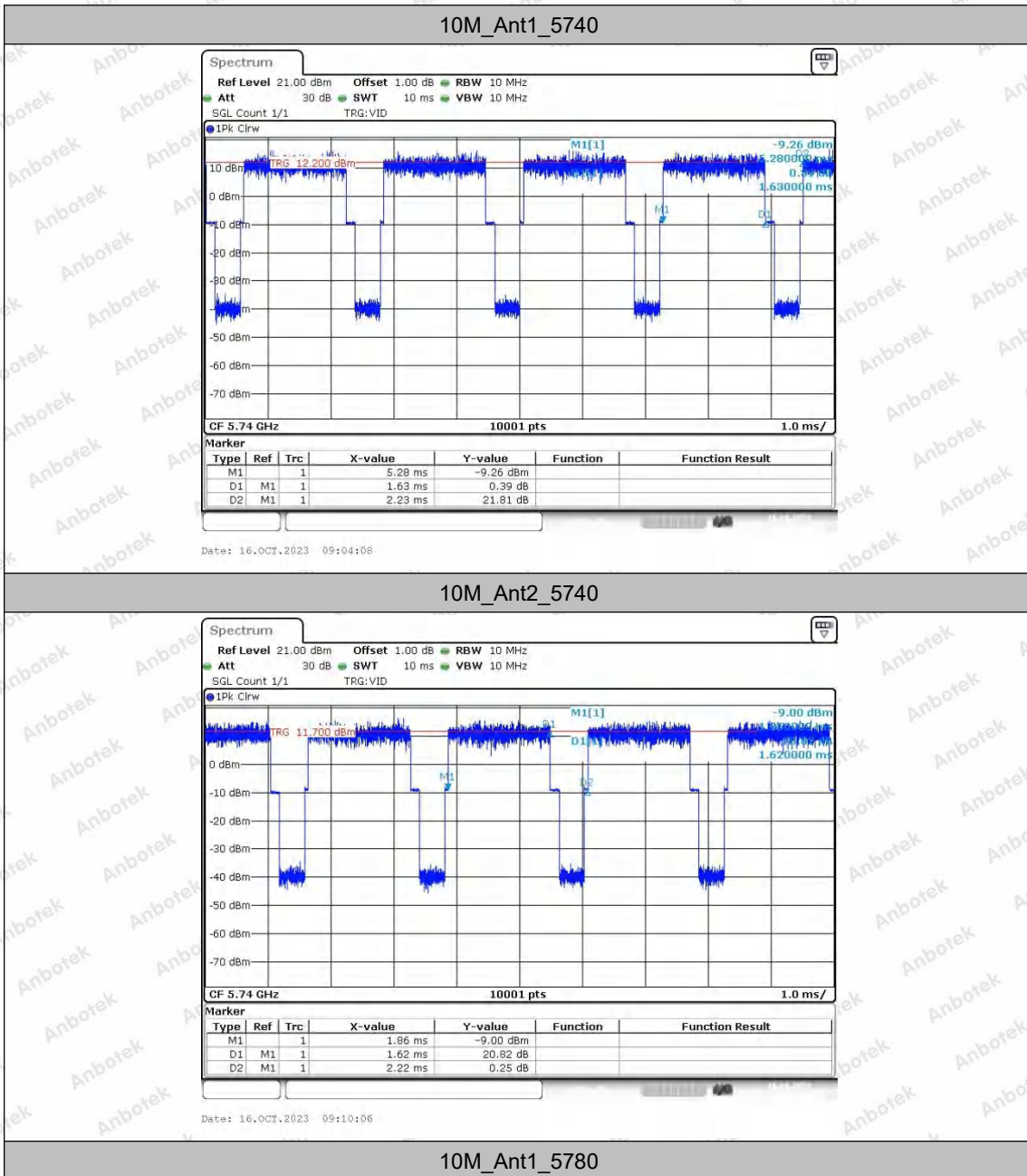
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## Test Graphs



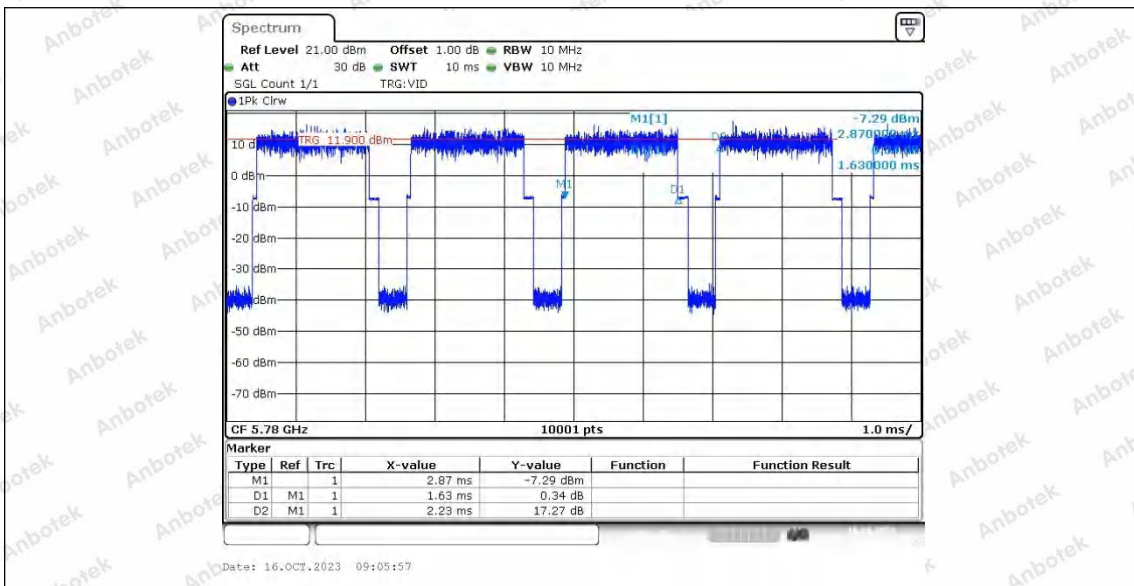
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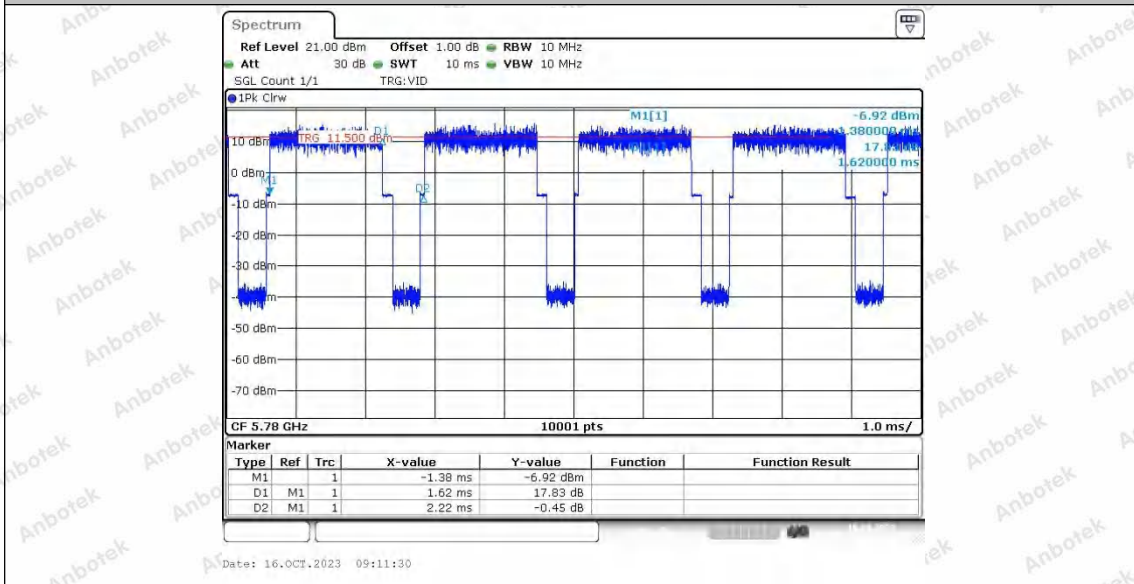


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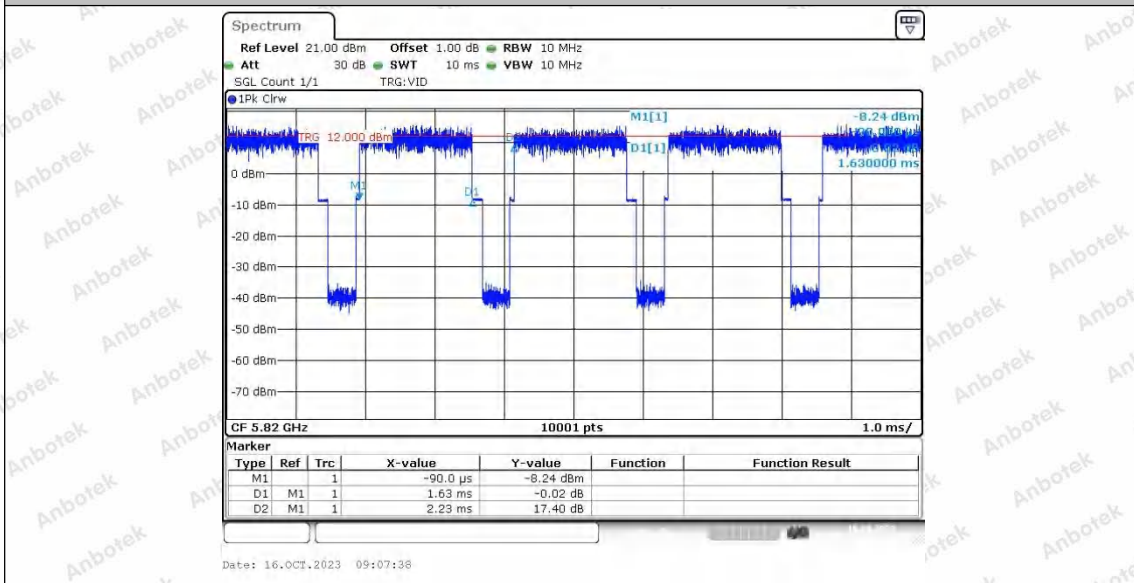




10M\_Ant2\_5780



10M\_Ant1\_5820



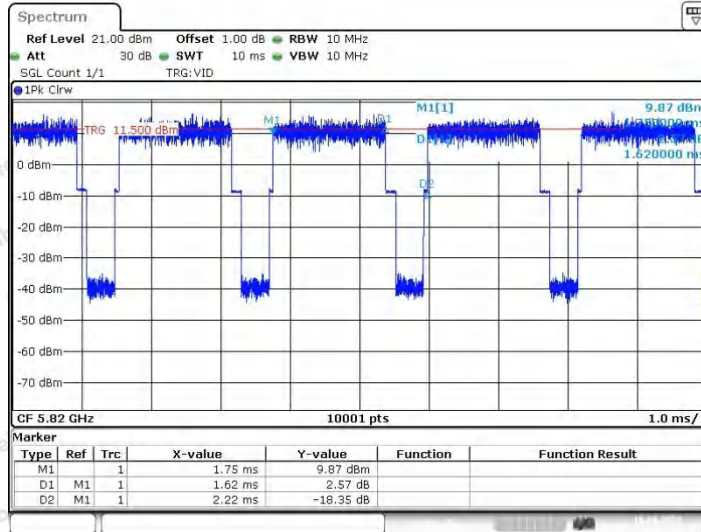
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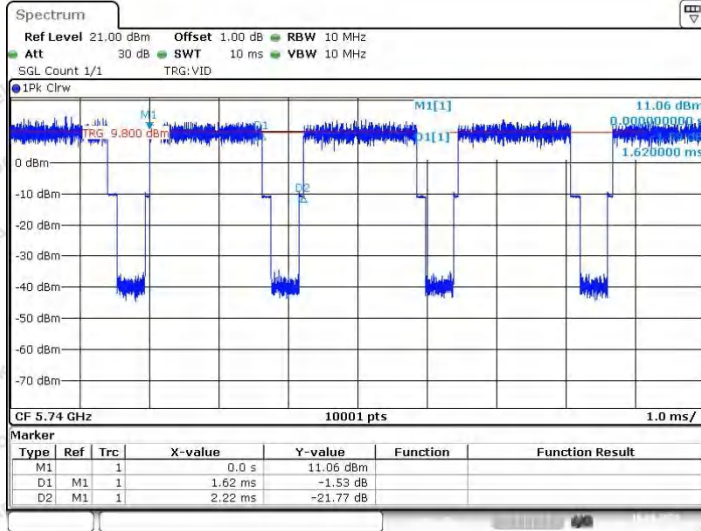


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Date: 16.OCT.2023 09:12:44

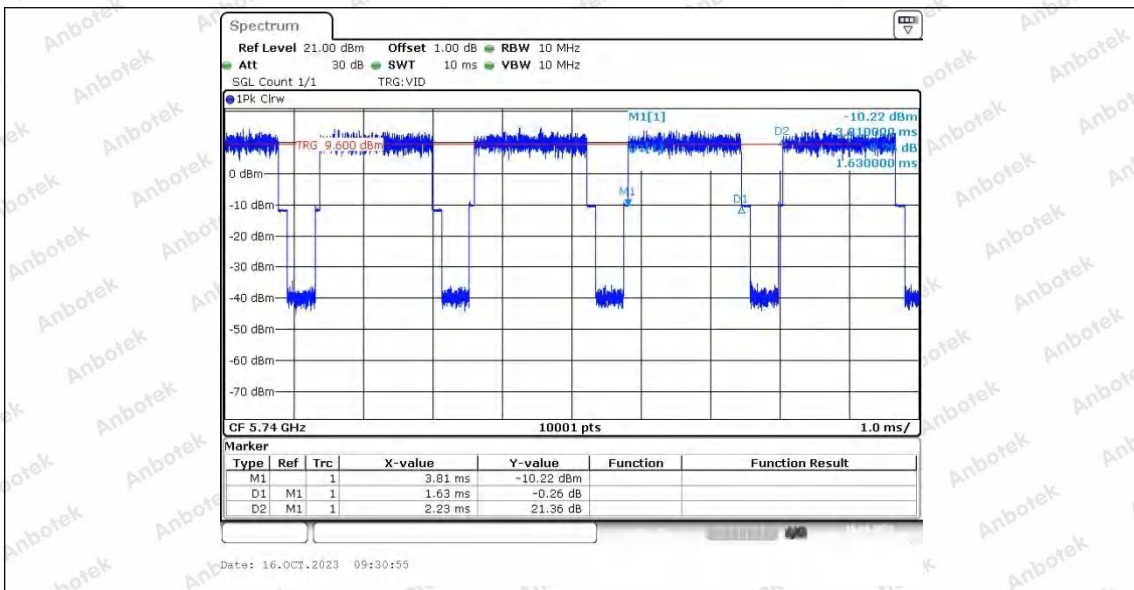
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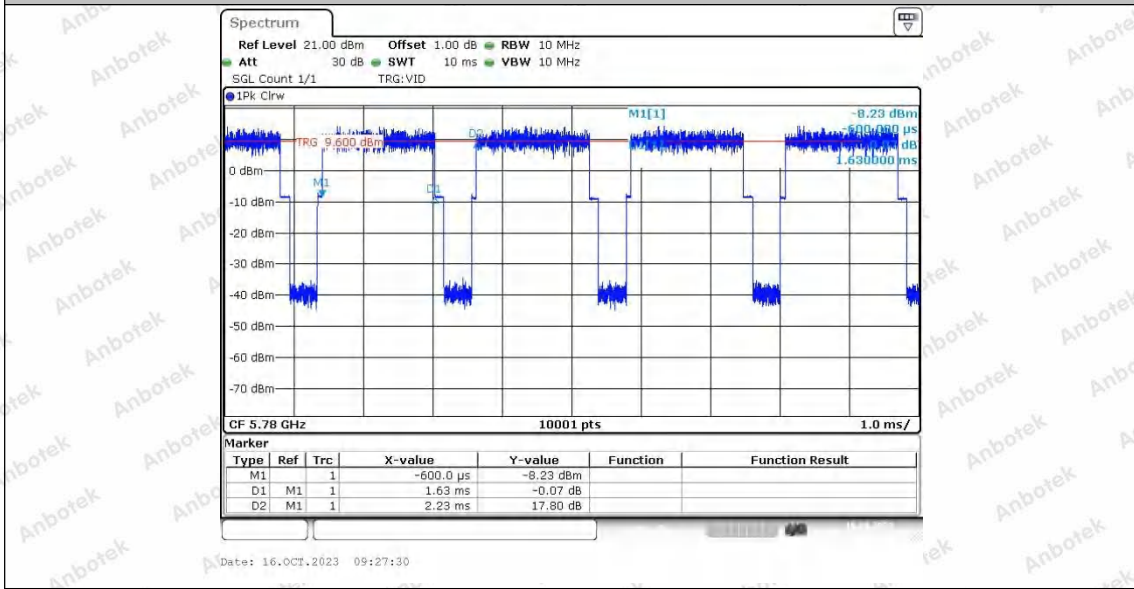
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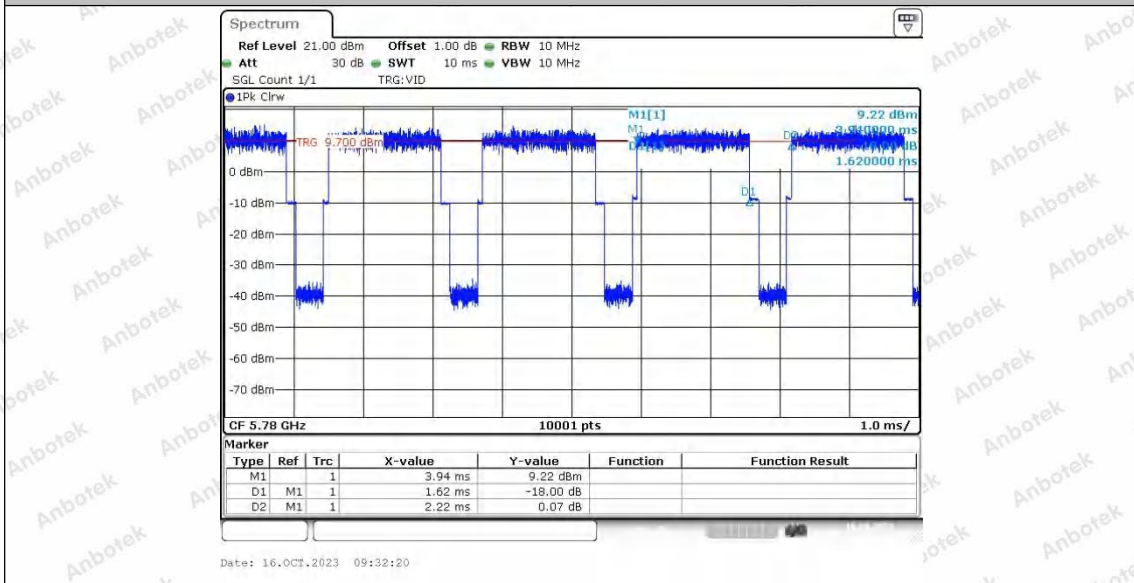




20M\_Ant1\_5780



20M\_Ant2\_5780



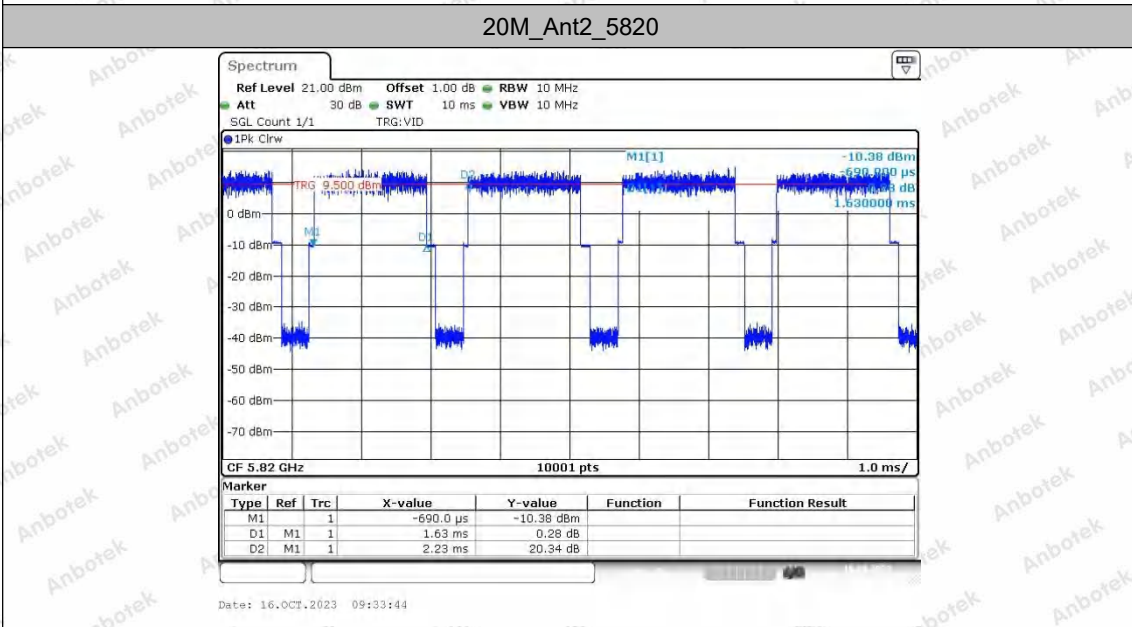
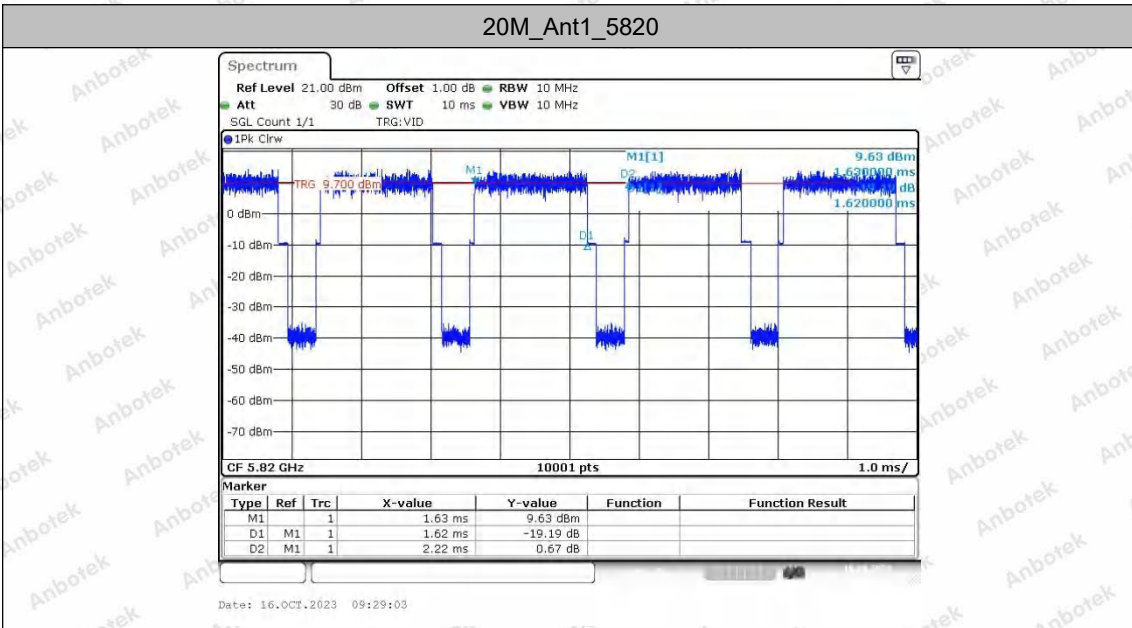
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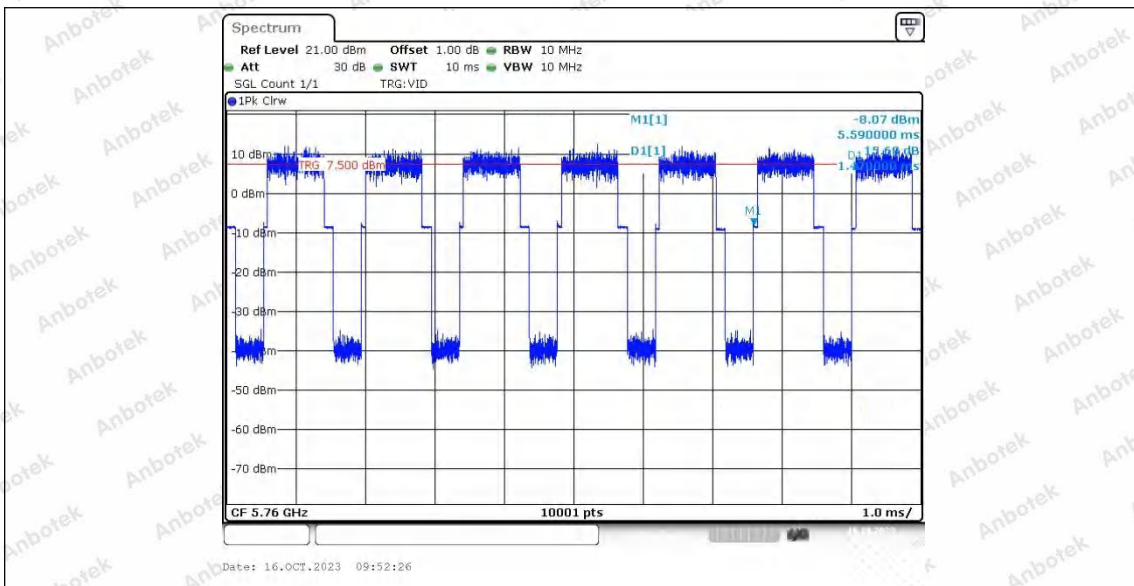




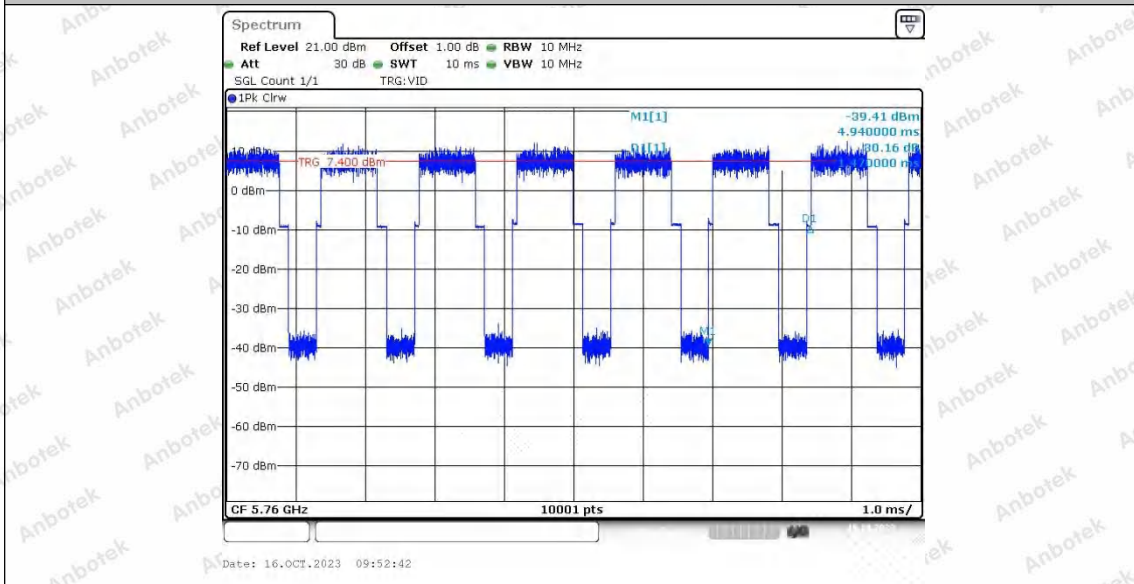


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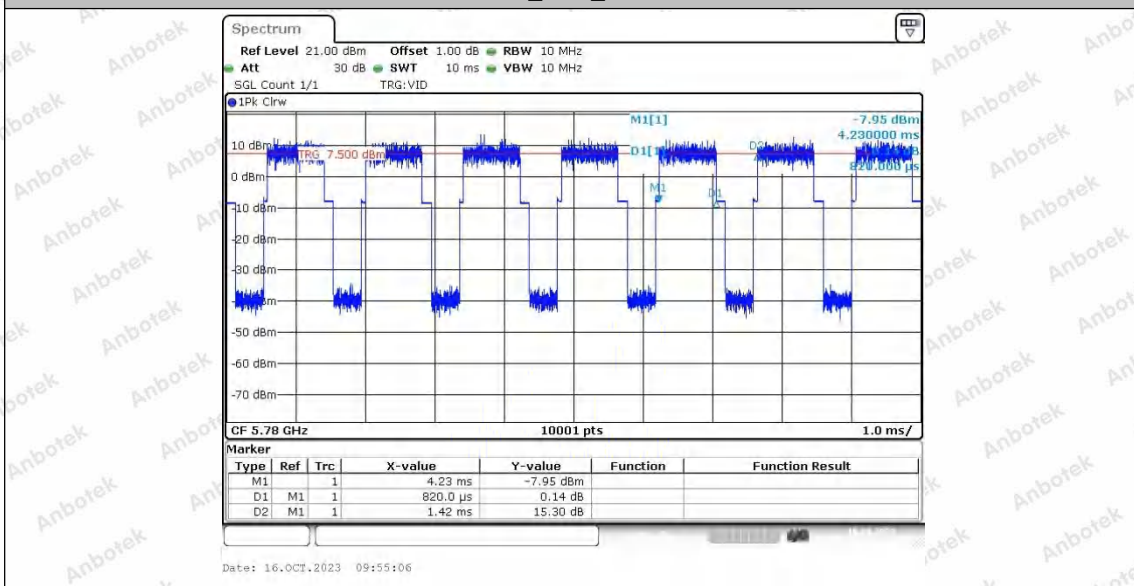




11A\_Ant2\_5760



11A\_Ant1\_5780



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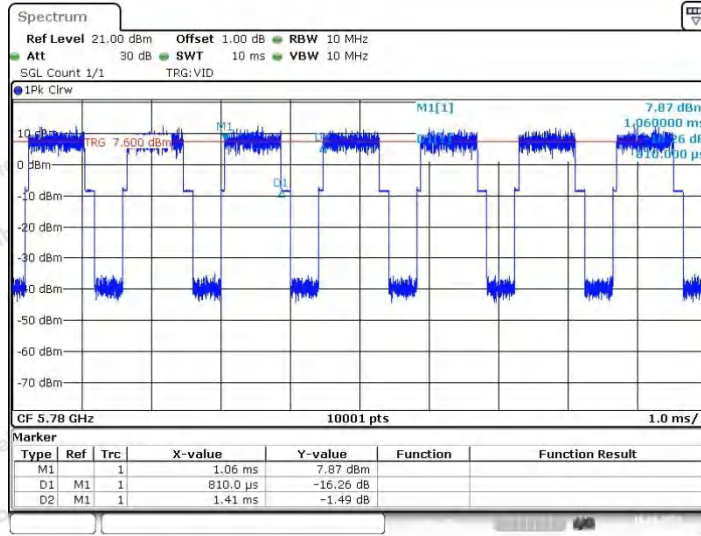
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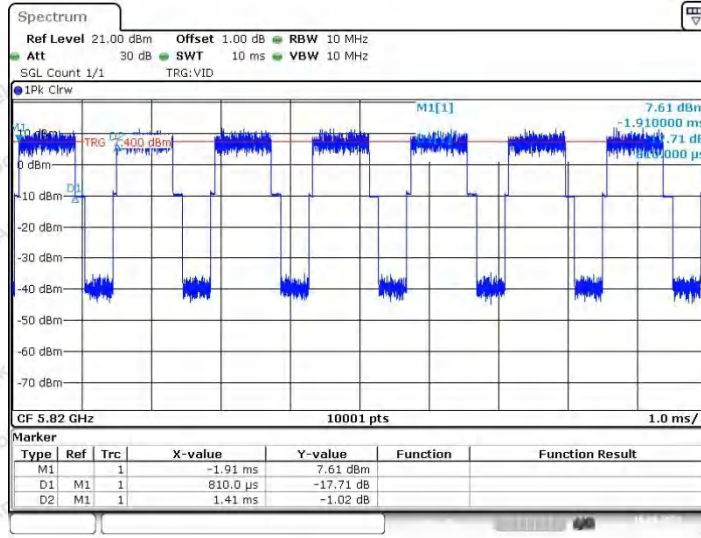
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### 11A\_Ant2\_5780

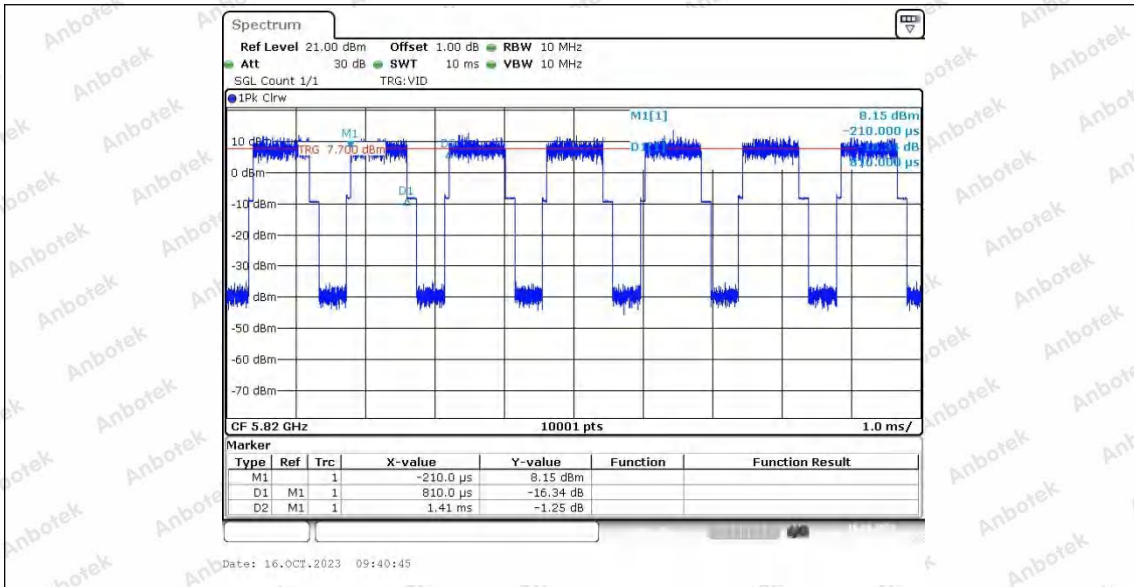


### 11A\_Ant1\_5820



### 11A\_Ant2\_5820





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## Appendix C: Maximum conducted output power

### Test Result Channel Power

Test Mode	Antenna	Frequency [MHz]	Set Power	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]
10M	Ant1	5740	---	13.12	73.09	1.36	14.48	≤30.00
	Ant2	5740	---	13.18	72.97	1.37	14.55	≤30.00
	Ant1	5780	---	12.95	73.09	1.36	14.31	≤30.00
	Ant2	5780	---	13.01	72.97	1.37	14.38	≤30.00
	Ant1	5820	---	12.89	73.09	1.36	14.25	≤30.00
	Ant2	5820	---	12.97	72.97	1.37	14.34	≤30.00
20M	Ant1	5740	---	13.46	72.97	1.37	14.83	≤30.00
	Ant2	5740	---	13.60	73.09	1.36	14.96	≤30.00
	Ant1	5780	---	13.42	73.09	1.36	14.78	≤30.00
	Ant2	5780	---	13.62	72.97	1.37	14.99	≤30.00
	Ant1	5820	---	13.45	72.97	1.37	14.82	≤30.00
	Ant2	5820	---	13.56	73.09	1.36	14.92	≤30.00
40M	Ant1	5760	---	13.29	55.10	2.59	15.88	≤30.00
	Ant2	5760	---	13.30	55.10	2.59	15.89	≤30.00
	Ant1	5780	---	13.20	57.75	2.38	15.58	≤30.00
	Ant2	5780	---	13.22	57.45	2.41	15.63	≤30.00
	Ant1	5820	---	13.20	57.45	2.41	15.61	≤30.00
	Ant2	5820	---	13.47	57.45	2.41	15.88	≤30.00

Note: The Duty Cycle Factor is compensated in the graph.

#### MIMO

TestMode	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
10M	5740	17.53	≤29.46	PASS
	5780	17.36	≤29.46	PASS
	5820	17.31	≤29.46	PASS
20M	5740	17.91	≤29.46	PASS
	5780	17.90	≤29.46	PASS
	5820	17.88	≤29.46	PASS
40M	5760	18.90	≤29.46	PASS
	5780	18.62	≤29.46	PASS
	5820	18.76	≤29.46	PASS

Note:

1. As Directional gain =  $10 \log[(10G1/20 + 10G2/20) 2 / NANT]$  dBi = 6.54 > 6dBi,  
so limit =  $30 - (6.06 - 6.00) = 29.46$  dBm.

2. 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/500KHz]	Limit[dBm/500KHz]	Verdict
10M	Ant1	5740	-3.52	≤30.00	PASS
	Ant2	5740	-2.81	≤30.00	PASS
	Ant1	5780	-2.64	≤30.00	PASS
	Ant2	5780	-1.95	≤30.00	PASS
	Ant1	5820	-2.45	≤30.00	PASS
	Ant2	5820	-2.54	≤30.00	PASS
20M	Ant1	5740	-7.82	≤30.00	PASS
	Ant2	5740	-5.73	≤30.00	PASS
	Ant1	5780	-7.12	≤30.00	PASS
	Ant2	5780	-4.35	≤30.00	PASS
	Ant1	5820	-7.31	≤30.00	PASS
	Ant2	5820	-5.37	≤30.00	PASS
40M	Ant1	5760	-4.58	≤30.00	PASS
	Ant2	5760	-3.89	≤30.00	PASS
	Ant1	5780	-6.6	≤30.00	PASS
	Ant2	5780	-4.76	≤30.00	PASS
	Ant1	5820	-7.17	≤30.00	PASS
	Ant2	5820	-4.92	≤30.00	PASS

Note: 1.The Duty Cycle Factor and RBW Factor is compensated in the graph.

### MIMO

TestMode	Frequency[MHz]	Result [dBm/500KHz]	Limit[dBm/500KHz]	Verdict
10M	5740	-0.14	≤29.46	PASS
	5780	0.73	≤29.46	PASS
	5820	0.52	≤29.46	PASS
20M	5740	-3.64	≤29.46	PASS
	5780	-2.51	≤29.46	PASS
	5820	-3.22	≤29.46	PASS
40M	5760	-1.21	≤29.46	PASS
	5780	-2.57	≤29.46	PASS
	5820	-2.89	≤29.46	PASS

Note:

1. As Directional gain =  $10 \log[(10G1/20 + 10G2/20) 2 / NANT]$  dBi=6.54>6dBi,  
so limit=30-(6.06-6.00)=29.46dBm.

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

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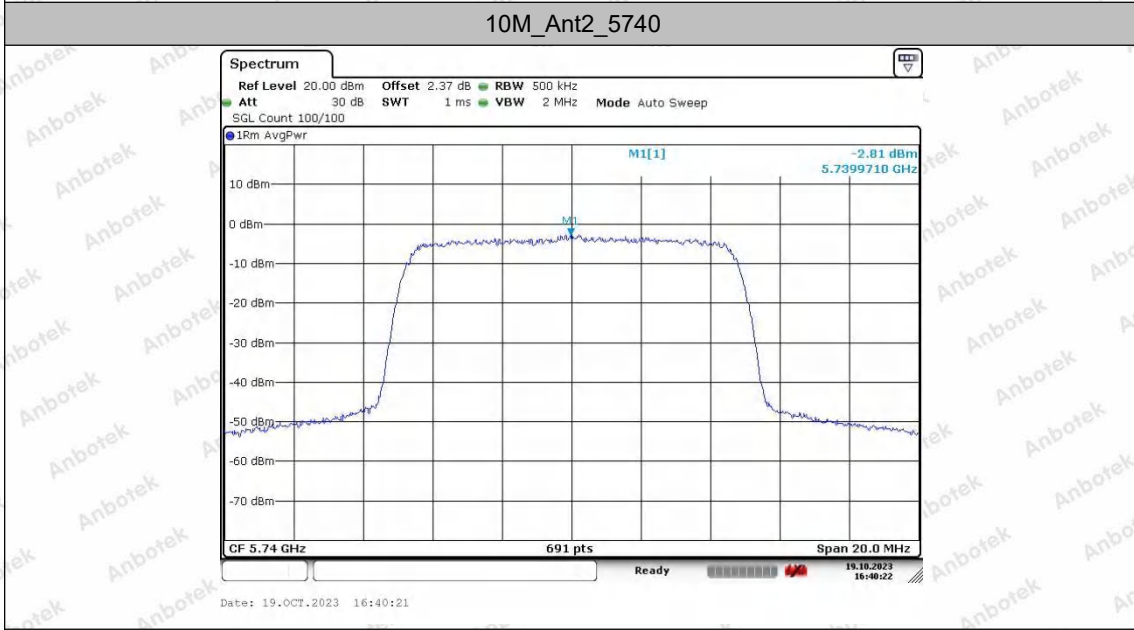
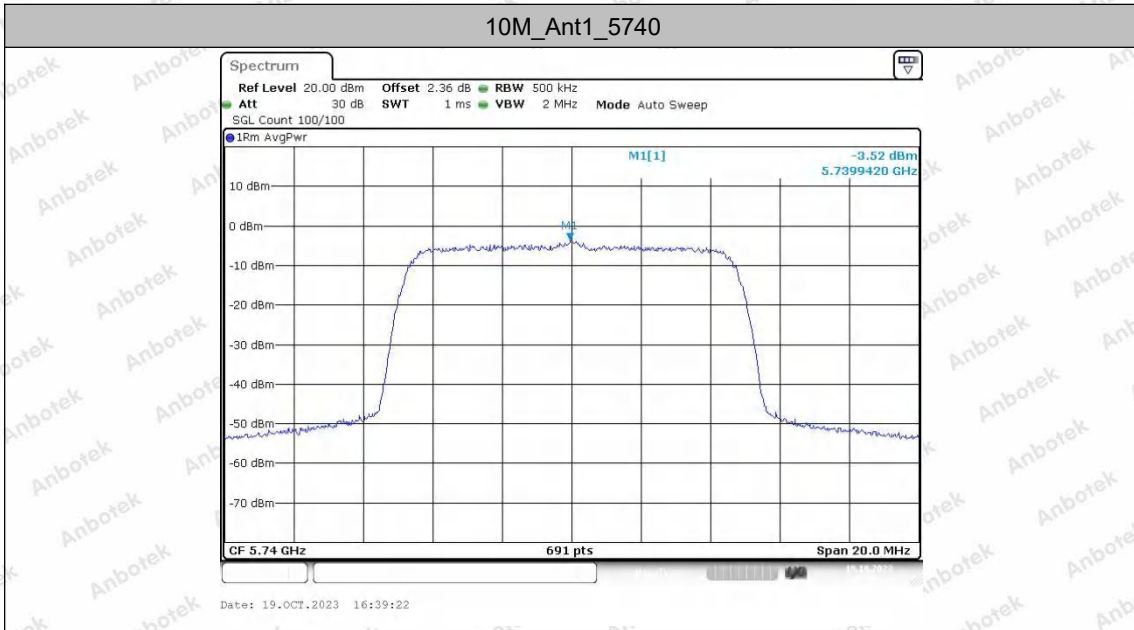
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**Test Graphs**



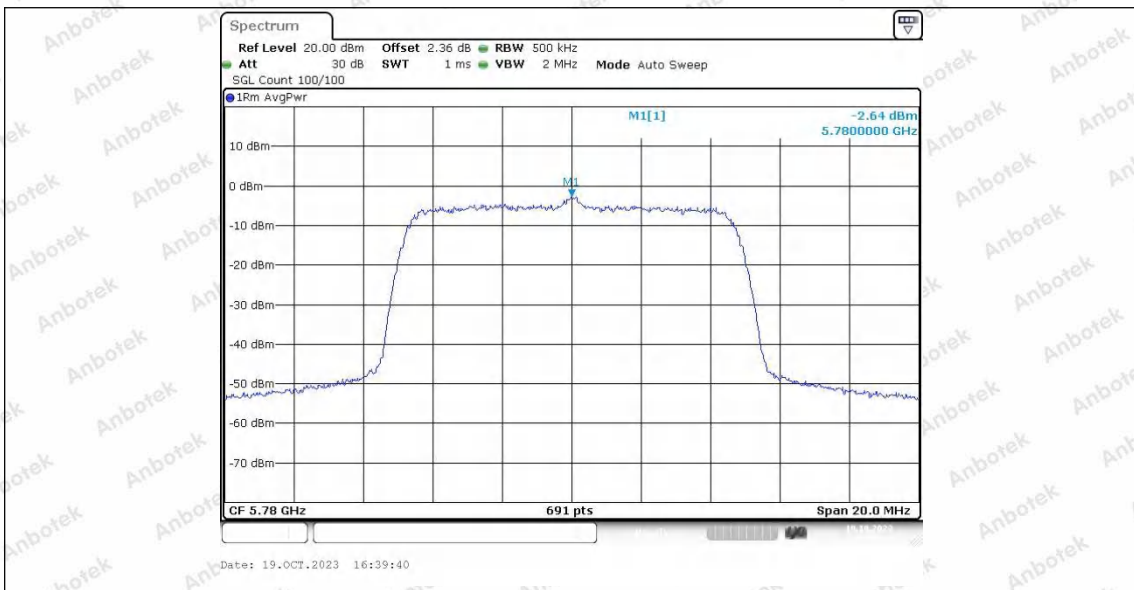
**10M\_Ant1\_5780**

**Shenzhen Anbotek Compliance Laboratory Limited**

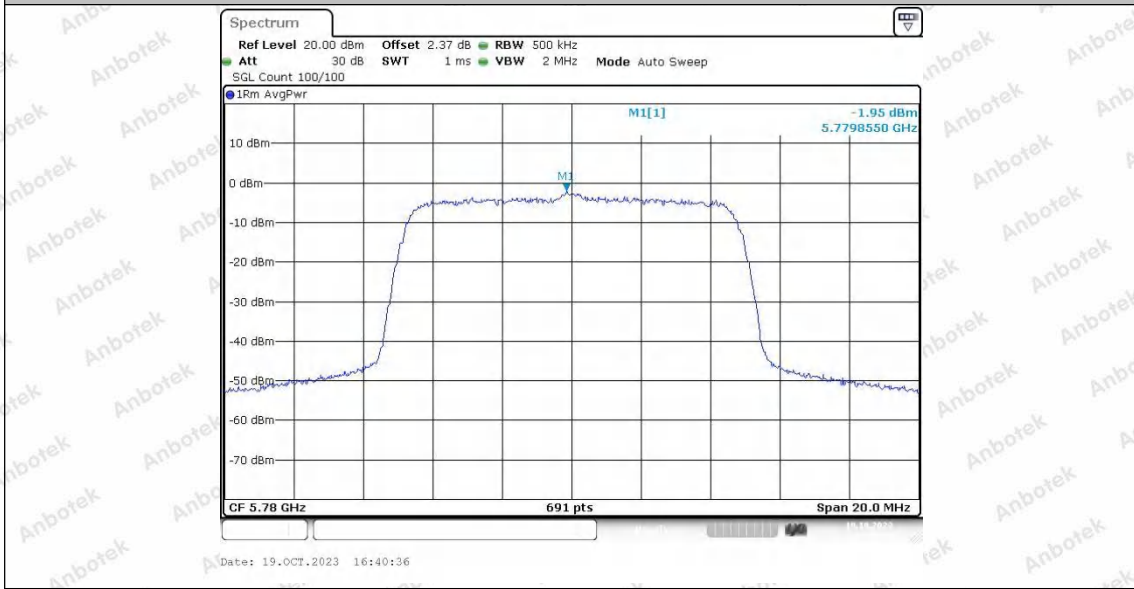
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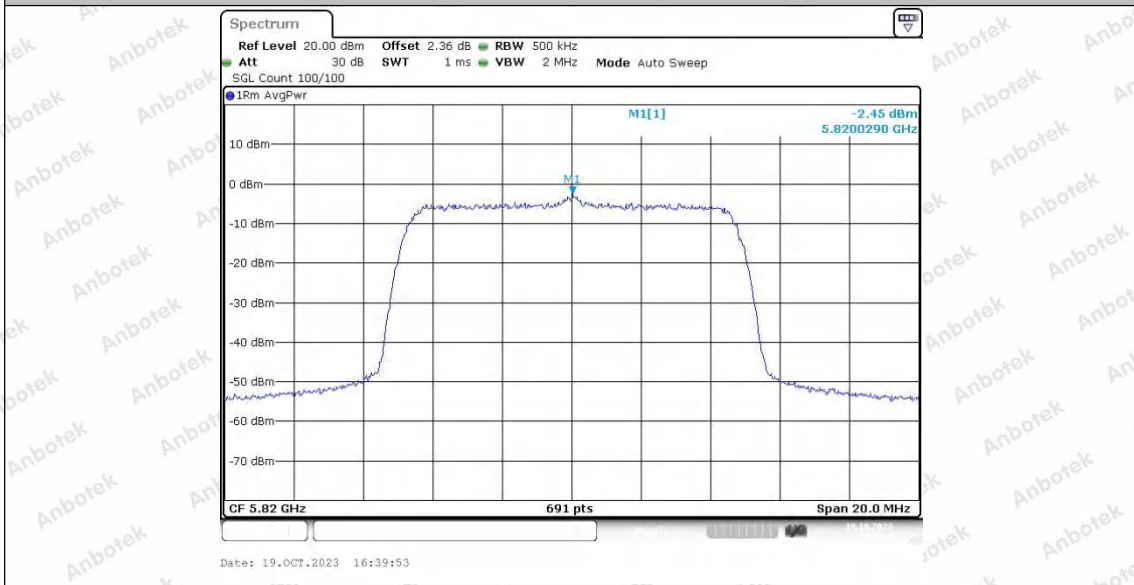




10M\_Ant2\_5780



10M\_Ant1\_5820



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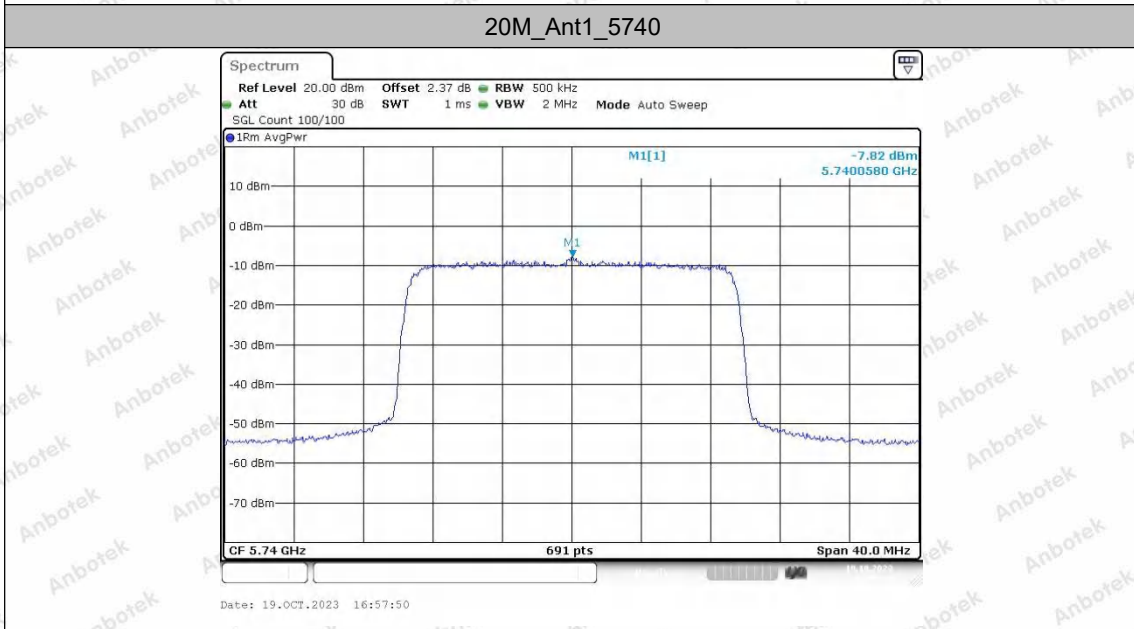
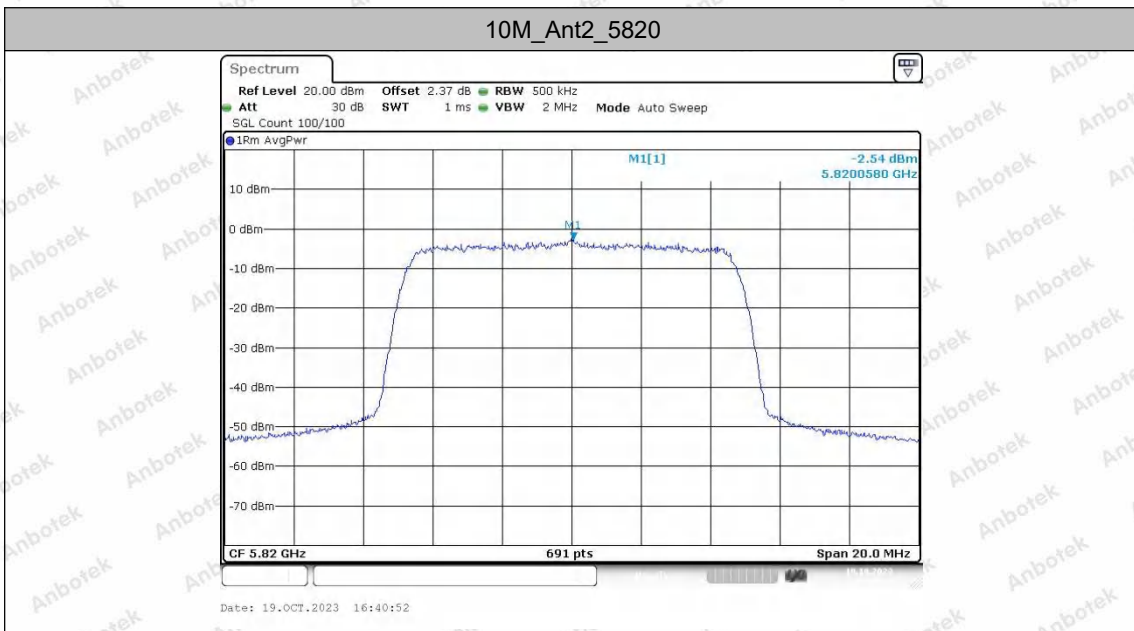
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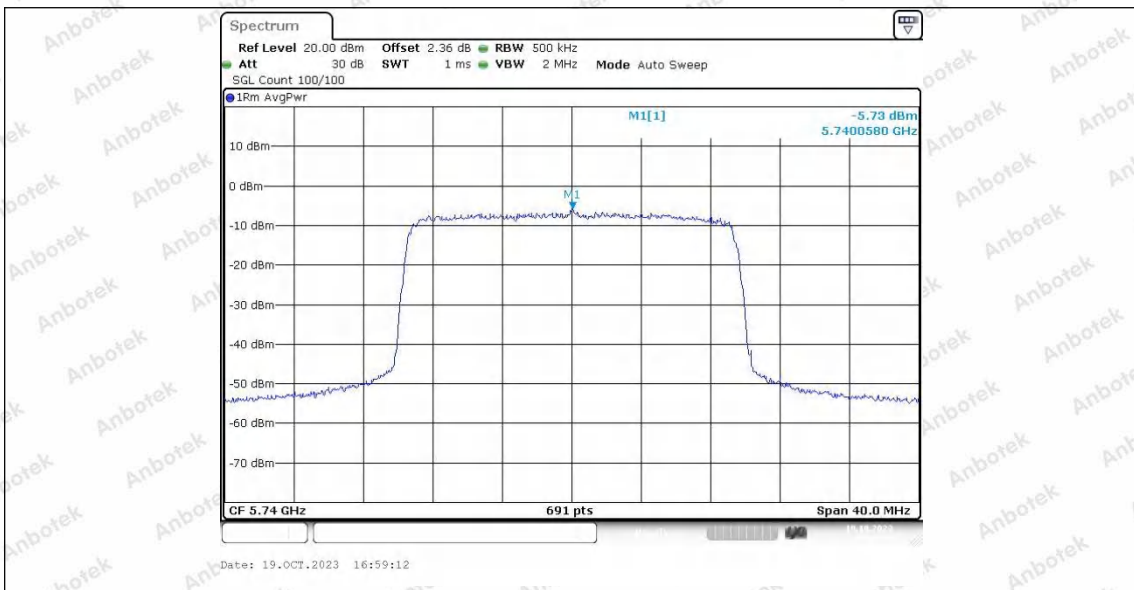
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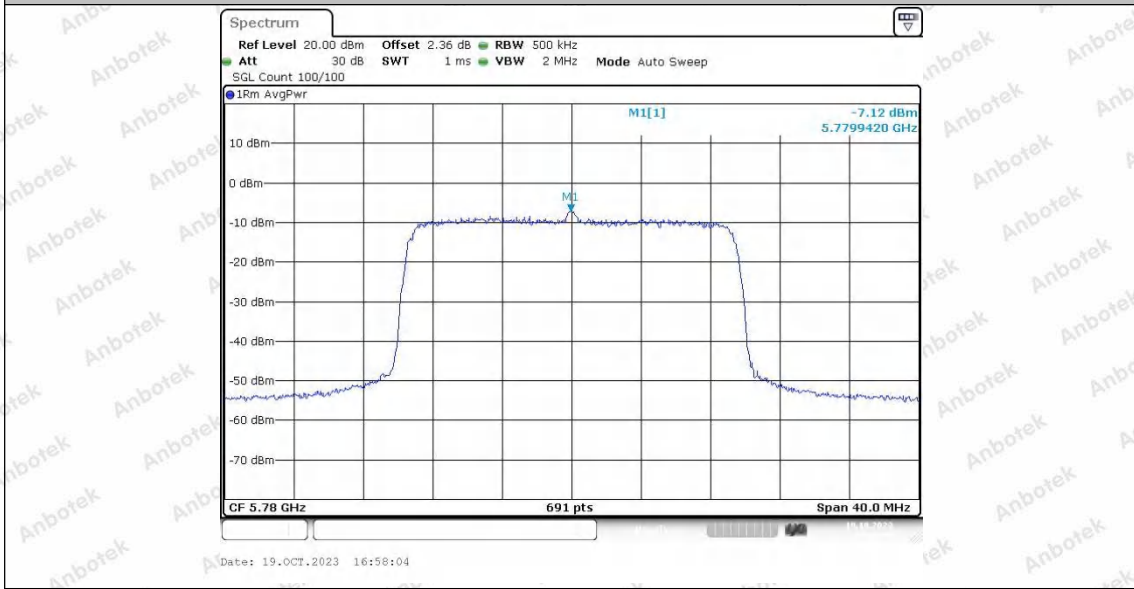
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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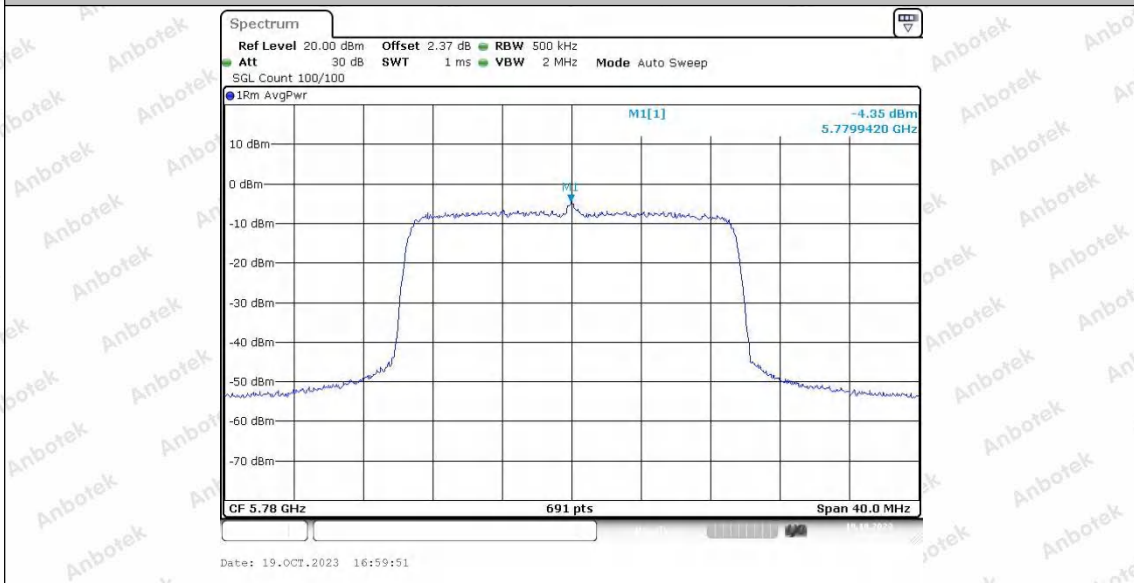




20M\_Ant1\_5780



20M\_Ant2\_5780



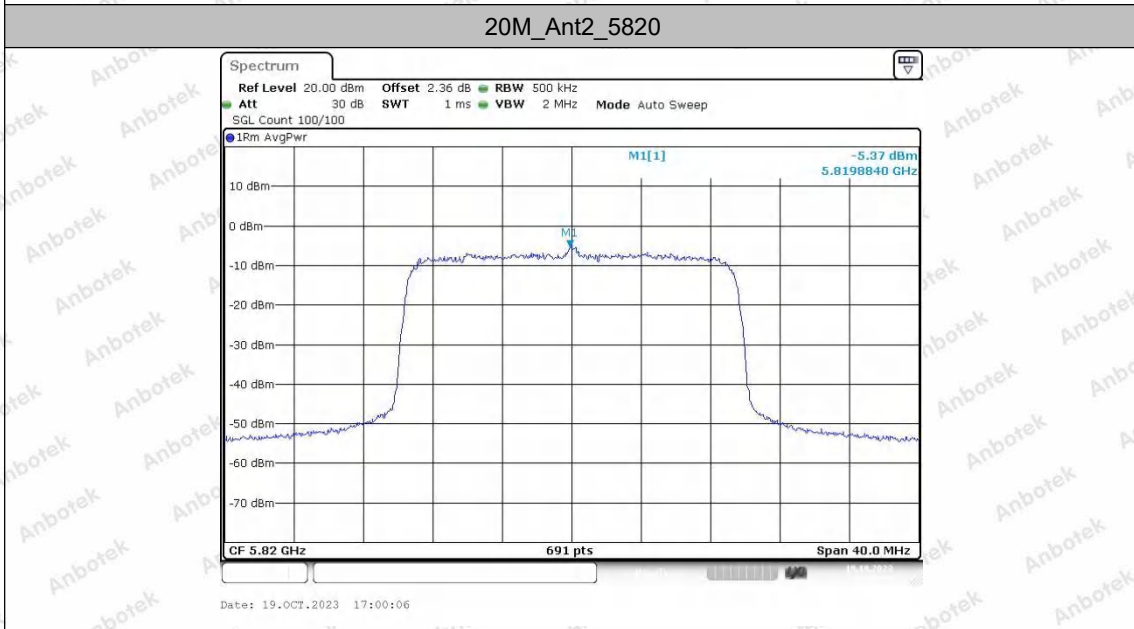
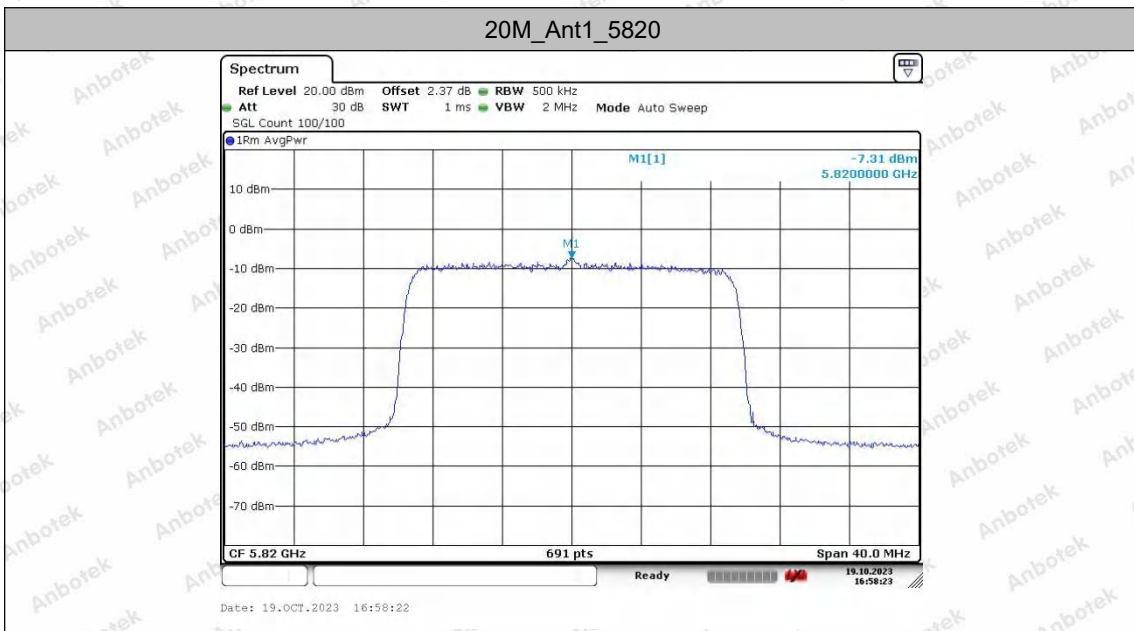
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### 40M\_Ant1\_5760

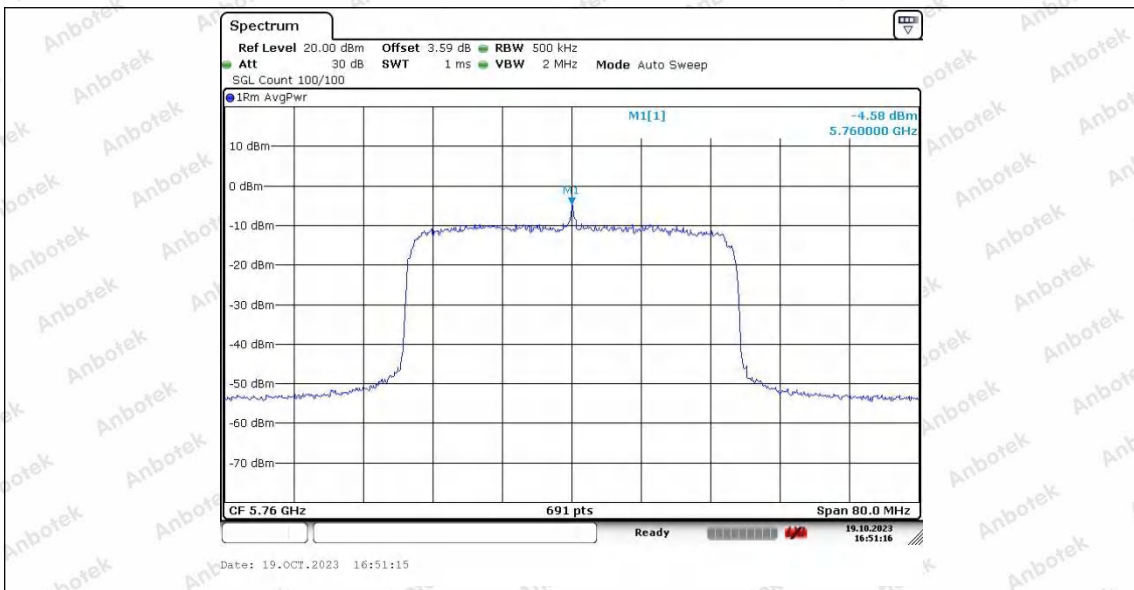
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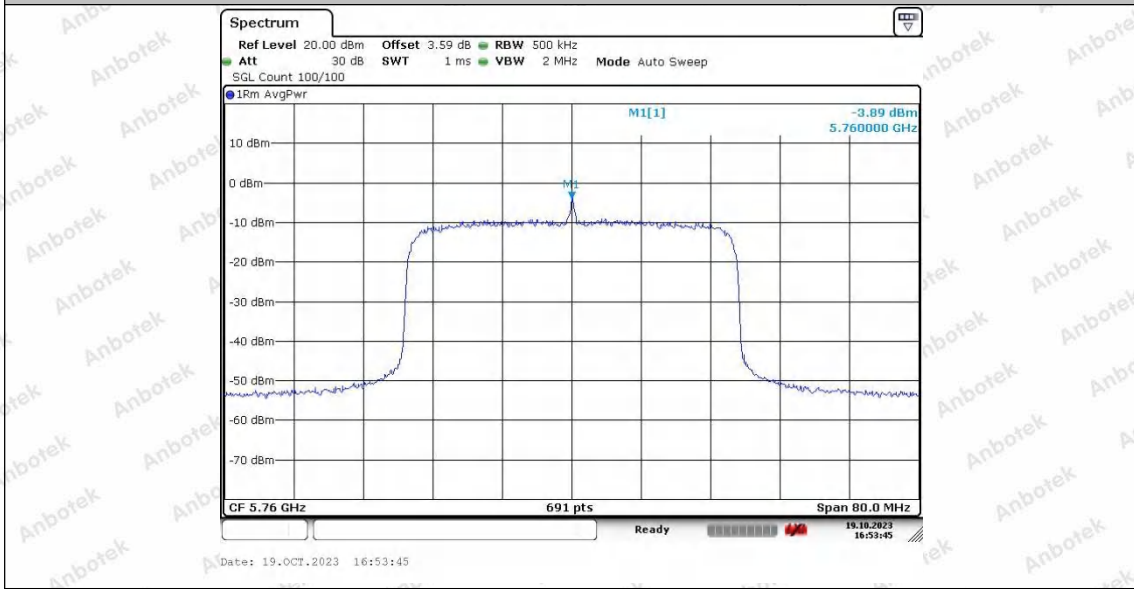


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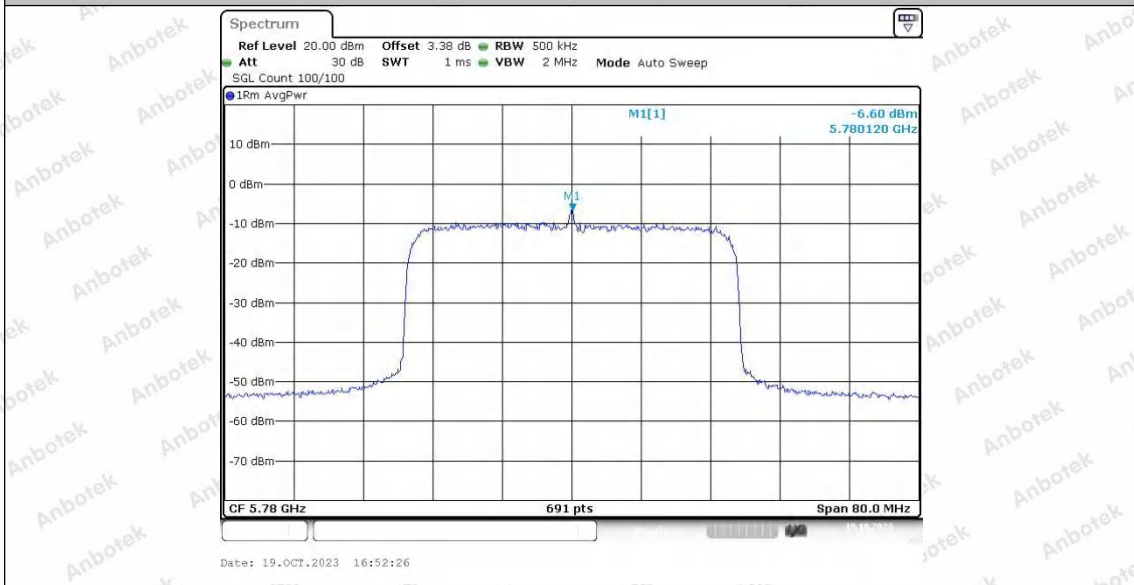




40M\_Ant2\_5760



40M\_Ant1\_5780



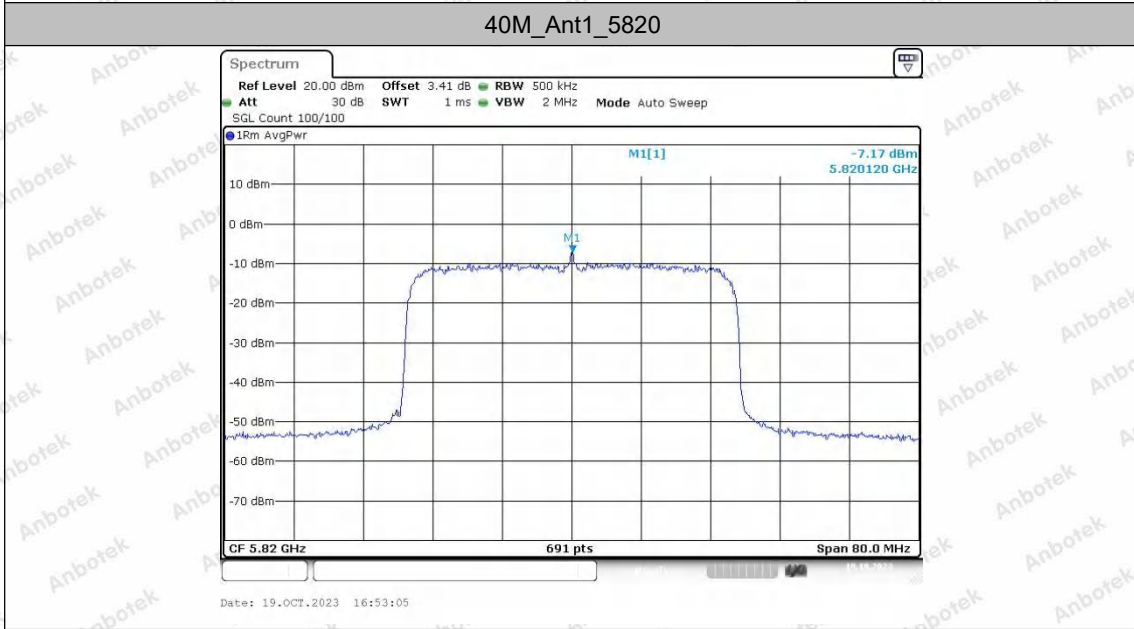
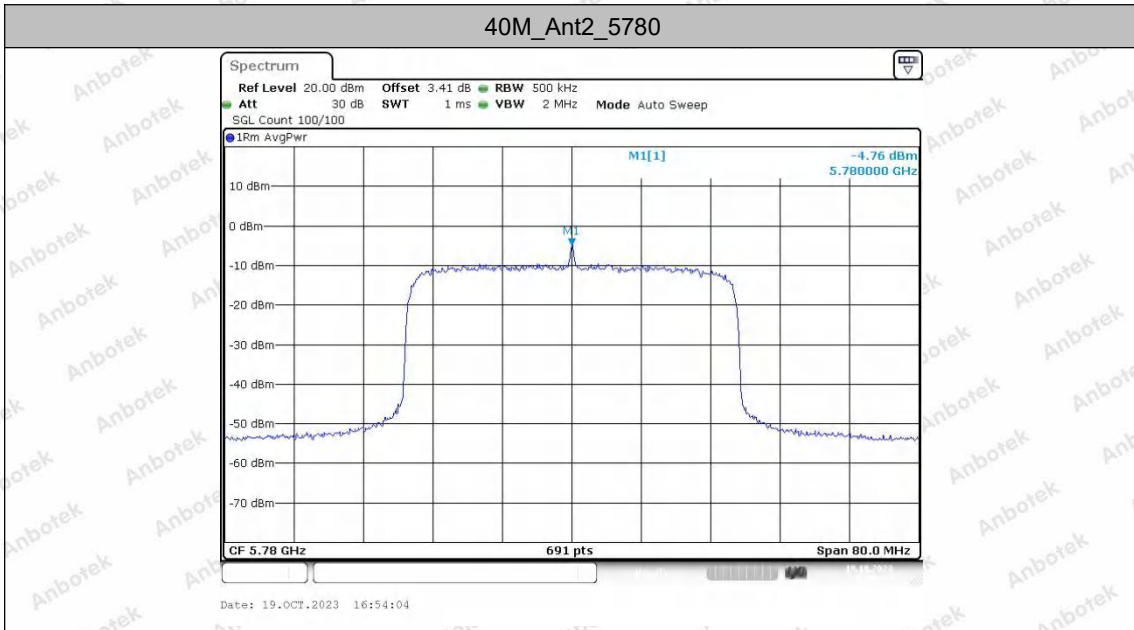
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### 40M\_Ant2\_5820

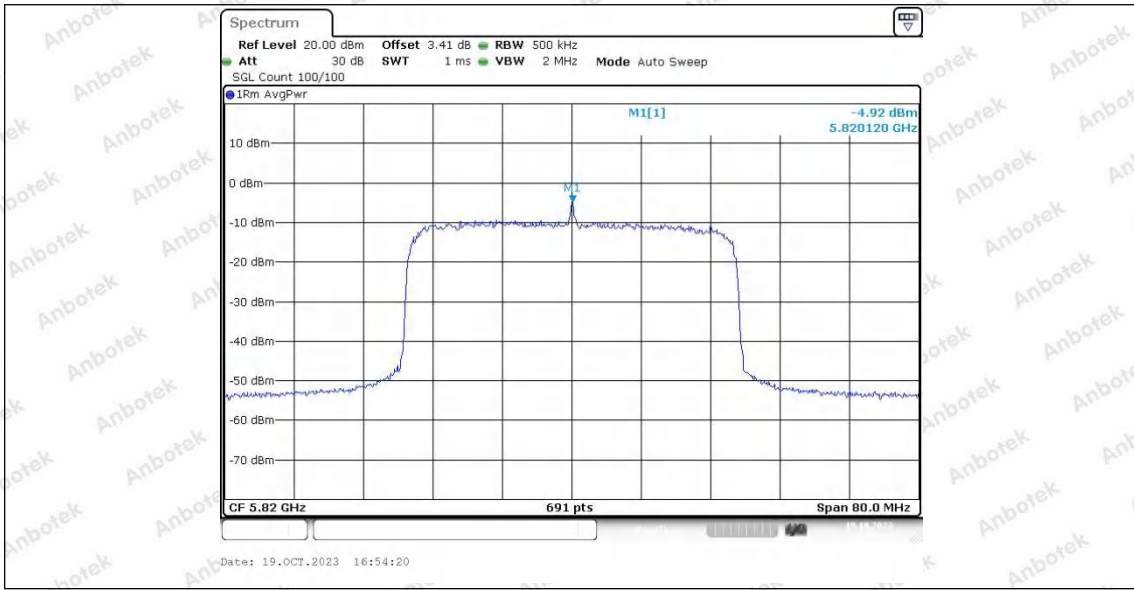
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## Appendix E: Band edge measurements

### Test Result

TestMode	Antenna	ChName	Frequency[MHz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
10M	Ant1	Low	5740	5650~5700	-53.49	≤8.07	PASS
				5700~5720	-53.71	≤14.71	PASS
				5720~5725	-53.95	≤19.56	PASS
				5760~5650	-53.6	≤-27	PASS
	Ant2	Low	5740	5650~5700	-53.41	≤2.49	PASS
				5700~5720	-53.54	≤15.03	PASS
				5720~5725	-53.73	≤17.58	PASS
	Ant1	High	5820	5850~5855	-53.57	≤25.18	PASS
				5855~5875	-52.62	≤14.40	PASS
				5875~5925	-53.57	≤-23.73	PASS
				5925~6000	-54.29	≤-27	PASS
	Ant2	High	5820	5850~5855	-54.41	≤15.93	PASS
5855~5875				-53.24	≤10.18	PASS	
5875~5925				-53.49	≤9.52	PASS	
5925~6000				-54.53	≤-27	PASS	
20M	Ant1	Low	5740	5650~5700	-53.35	≤-12.74	PASS
				5700~5720	-52.67	≤10.81	PASS
				5720~5725	-52.1	≤22.87	PASS
				5760~5650	-53.05	≤-27	PASS
	Ant2	Low	5740	5650~5700	-53.35	≤-5.01	PASS
				5700~5720	-53.31	≤12.52	PASS
				5720~5725	-52.45	≤26.84	PASS
				5760~5650	-52.5	≤-27	PASS
	Ant1	High	5820	5850~5855	-53.91	≤25.18	PASS
				5855~5875	-53.36	≤13.67	PASS
				5875~5925	-53.96	≤7.16	PASS
				5925~6000	-53.41	≤-27	PASS
Ant2	High	5820	5850~5855	-52.81	≤19.23	PASS	
			5855~5875	-52.51	≤12.54	PASS	
			5875~5925	-53.09	≤-17.94	PASS	
			5925~6000	-53.26	≤-27	PASS	
40M	Ant1	Low	5760	5650~5700	-53.28	≤-3.94	PASS
				5700~5720	-53.6	≤15.03	PASS
				5720~5725	-52.79	≤17.58	PASS
				5800~5650	-52.89	≤-27	PASS
	Ant2	Low	5760	5650~5700	-52.79	≤-3.08	PASS

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			5700~5720	-52.9	≤14.14	PASS
			5720~5725	-52.72	≤22.21	PASS
			5800~5650	-52.99	≤-27	PASS
Ant1	High	5820	5850~5855	-53.99	≤21.88	PASS
			5855~5875	-53.31	≤12.37	PASS
			5875~5925	-52.54	≤0.08	PASS
			5925~5980	-53.93	≤-27	PASS
Ant2	High	5820	5850~5855	-52.3	≤22.54	PASS
			5855~5875	-51.82	≤12.94	PASS
			5875~5925	-53.31	≤-15.36	PASS
			5925~5980	-53.28	≤-27	PASS

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## Test Graphs



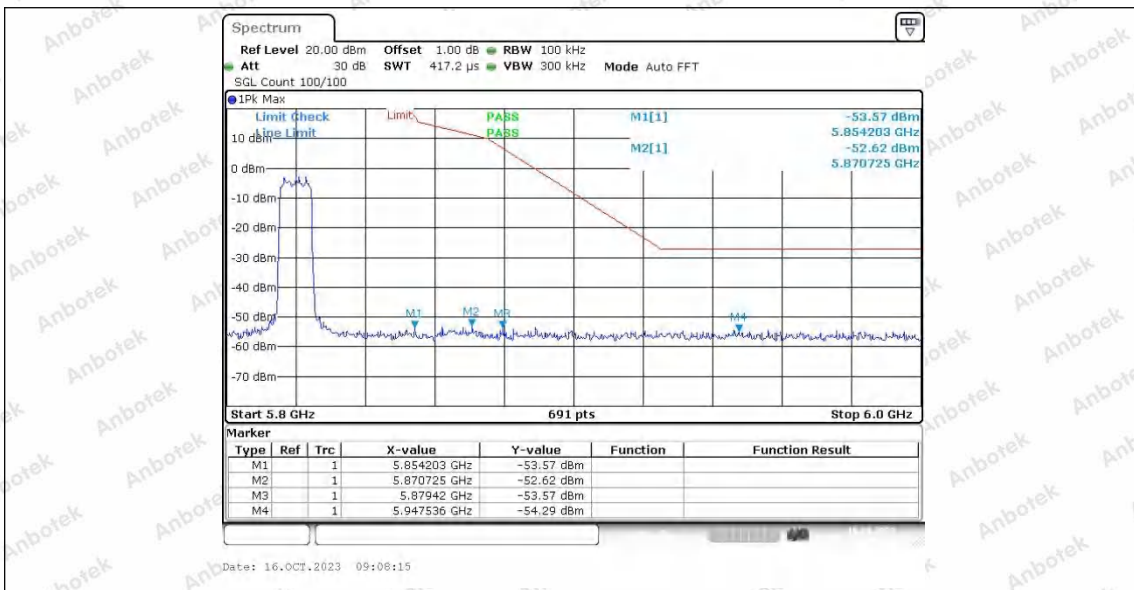
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

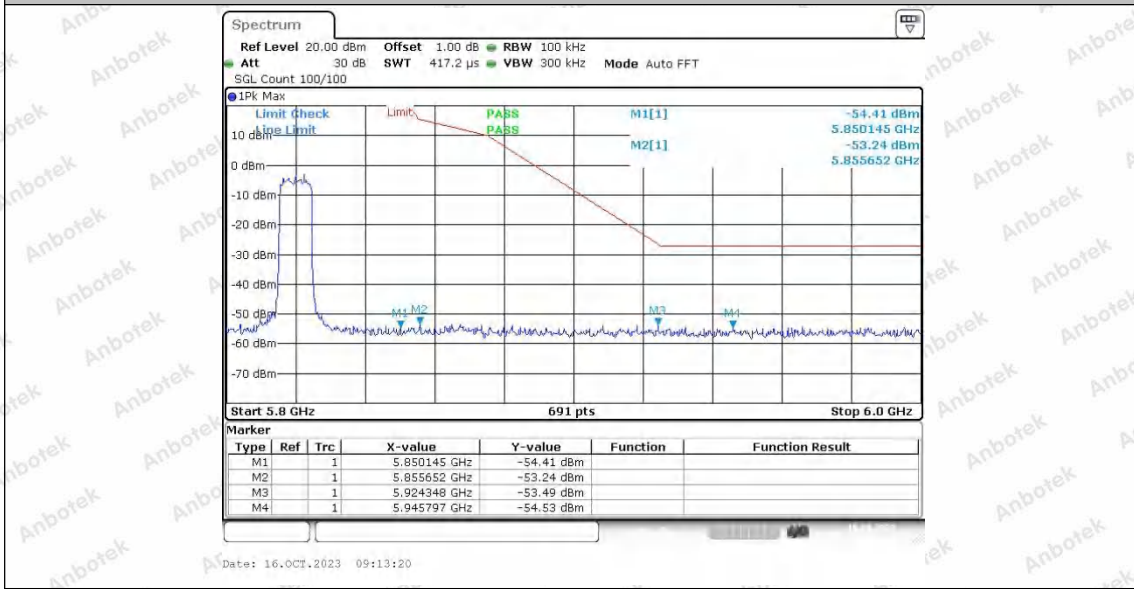


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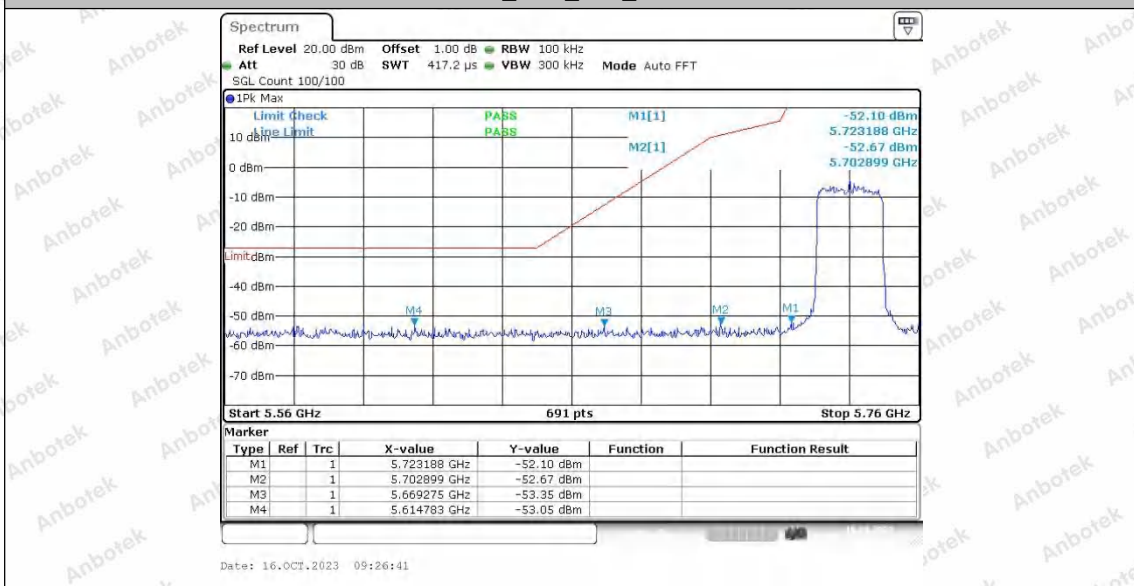




10M\_Ant2\_High\_5820



20M\_Ant1\_Low\_5740



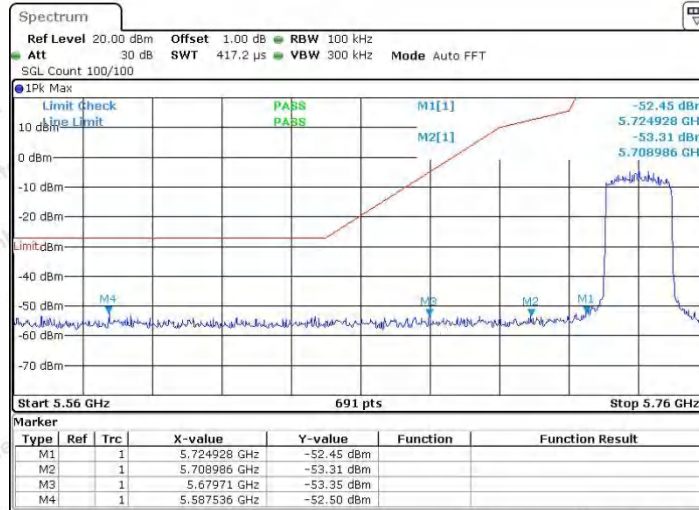
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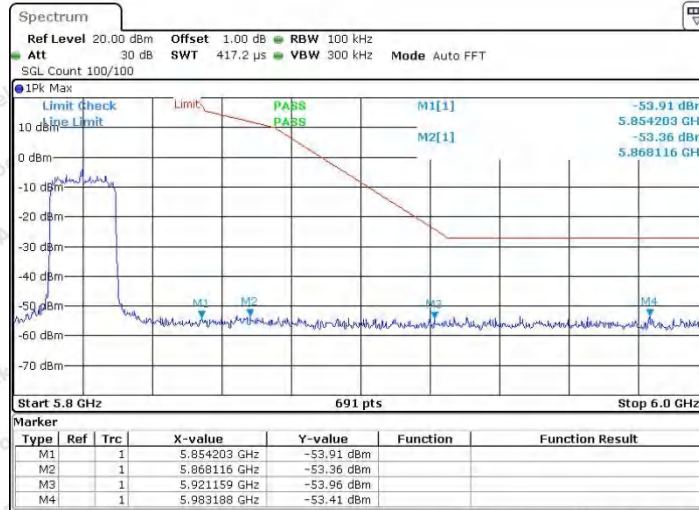


### 20M\_Ant2\_Low\_5740



Date: 16.OCT.2023 09:31:32

### 20M\_Ant1\_High\_5820



Date: 16.OCT.2023 09:29:40

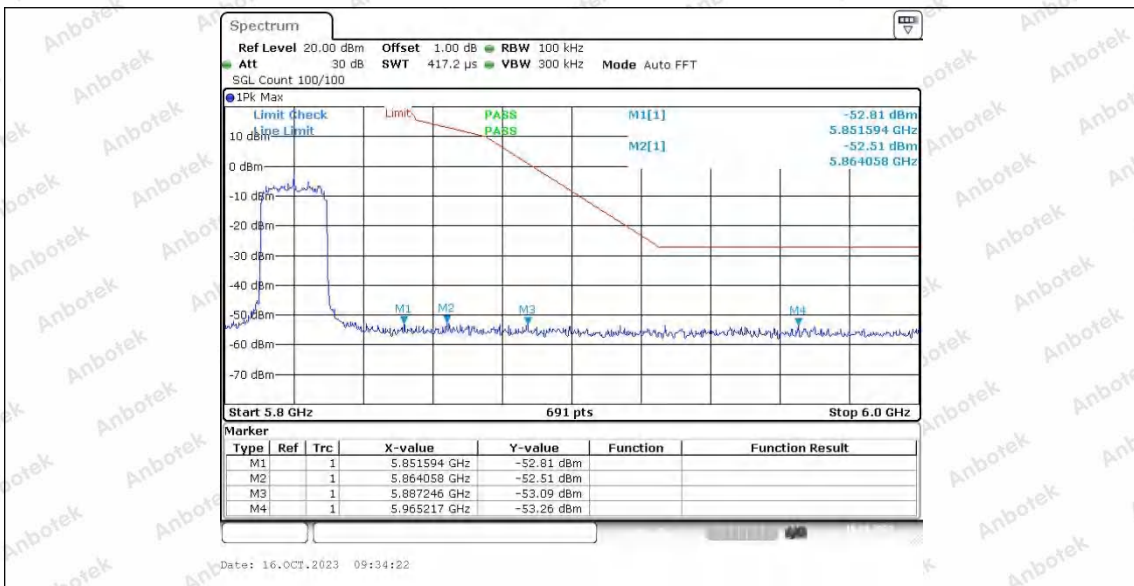
### 20M\_Ant2\_High\_5820

## Shenzhen Anbotek Compliance Laboratory Limited

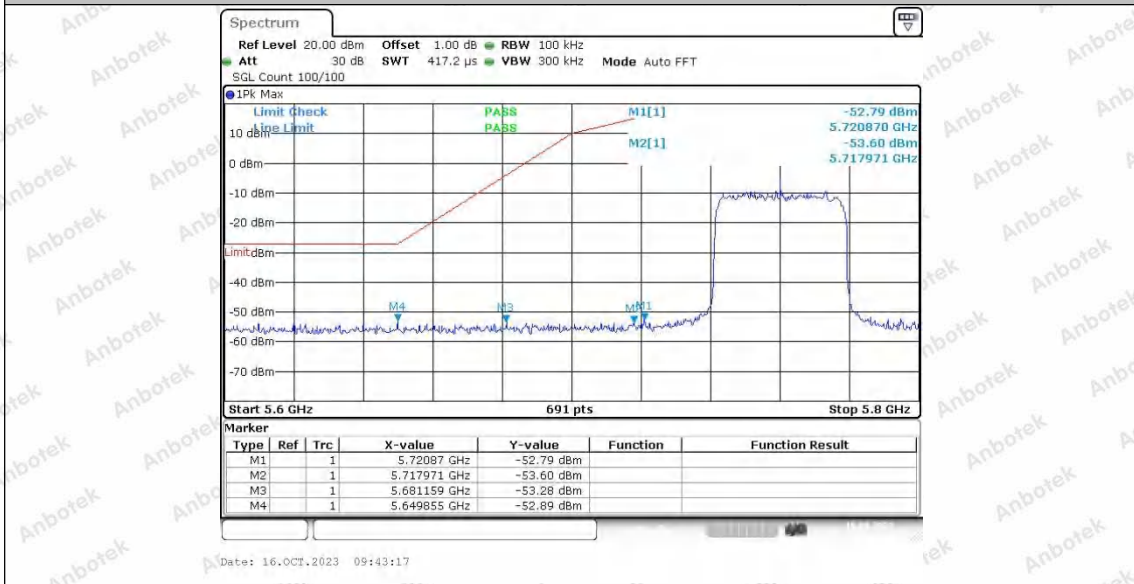
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

Hotline 400-003-0500  
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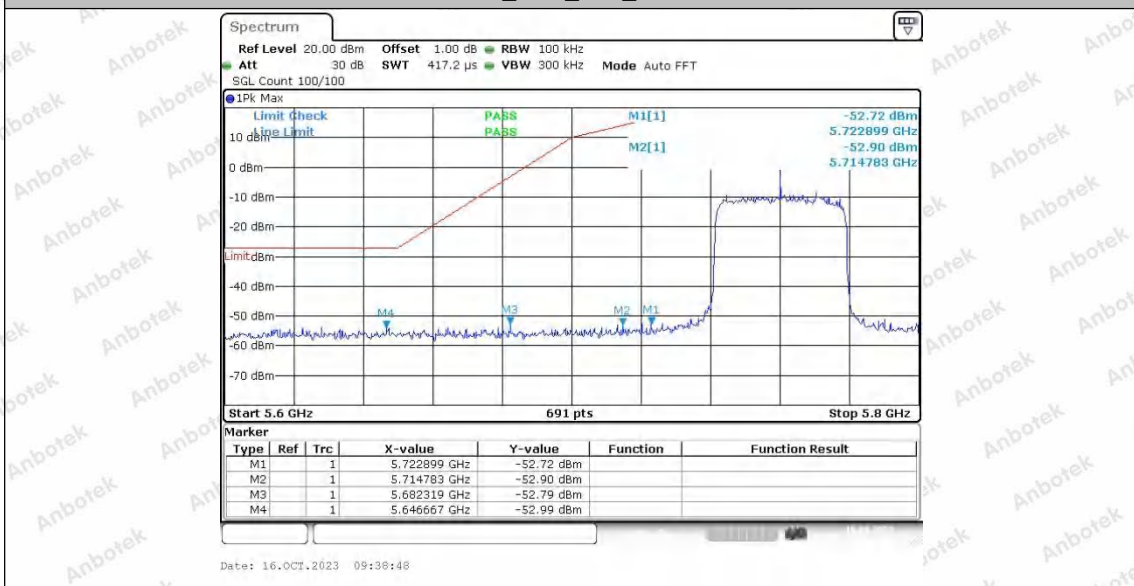




40M\_Ant1\_Low\_5760



40M\_Ant2\_Low\_5760



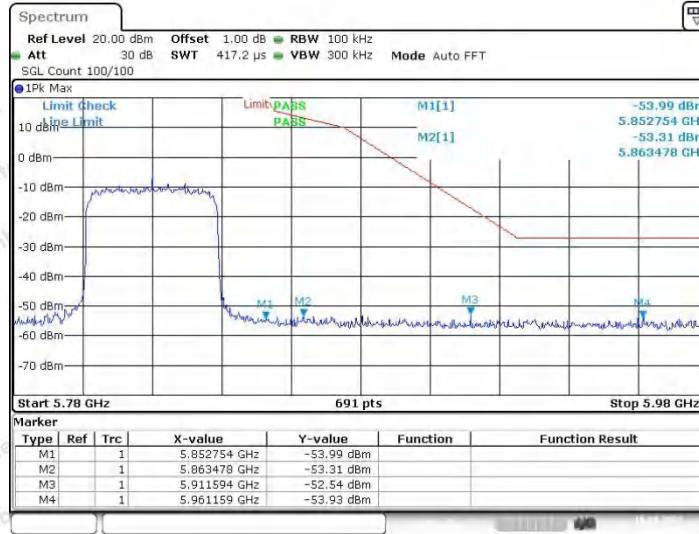
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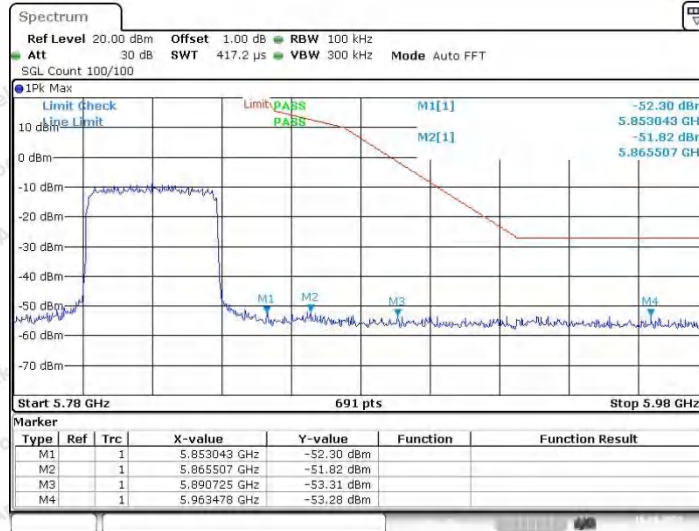


### 40M\_Ant1\_High\_5820



Date: 16.OCT.2023 09:45:51

### 40M\_Ant2\_High\_5820



Date: 16.OCT.2023 09:41:23

--End--

