

## Appendix Test Data

Report No.:	182514C400003101	Test Sample No.:	1-2-2
Start Test Date:	2024.05.22	Finish Test Date:	2024.05.30
Test Engineer:	<i>Foker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	25.3°C	Relative Humidity:	48%
Pressure:	101kPa		

## Appendix A: 6dB Bandwidth

## Test Result

Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	1Mbps	2402	776.19	500	Pass
NVNT	ANT1	1Mbps	2440	740.10	500	Pass
NVNT	ANT1	1Mbps	2480	743.17	500	Pass
NVNT	ANT1	2Mbps	2402	1402.62	500	Pass
NVNT	ANT1	2Mbps	2440	1243.65	500	Pass
NVNT	ANT1	2Mbps	2480	1315.58	500	Pass

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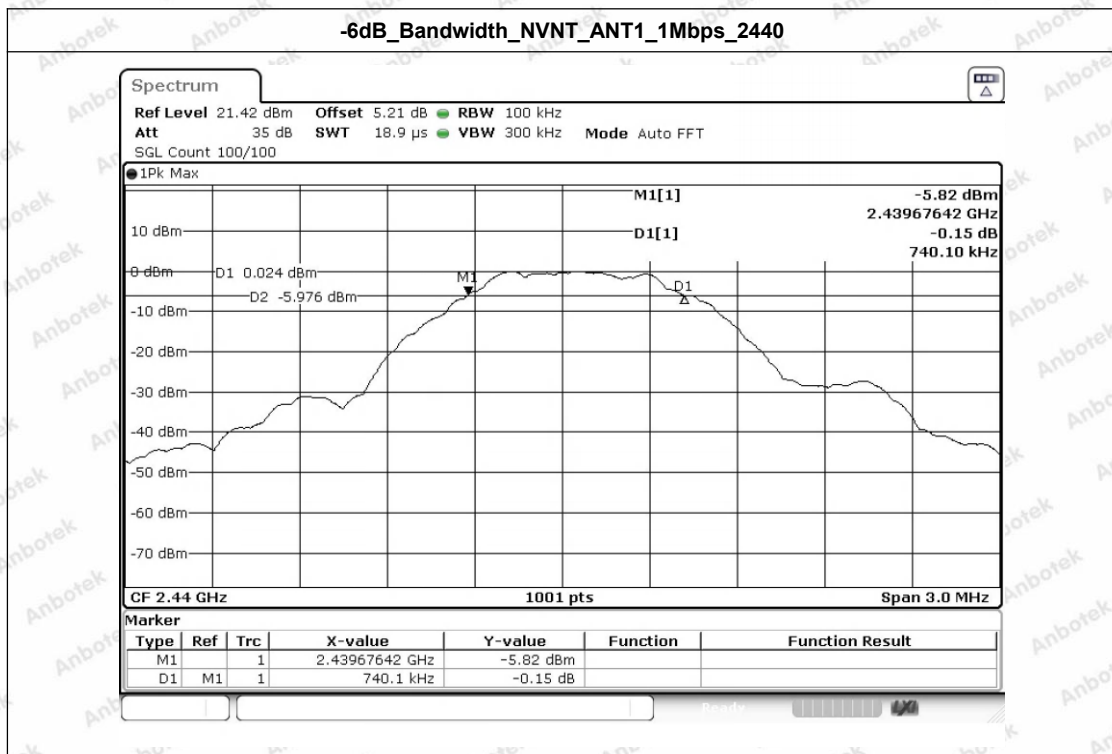
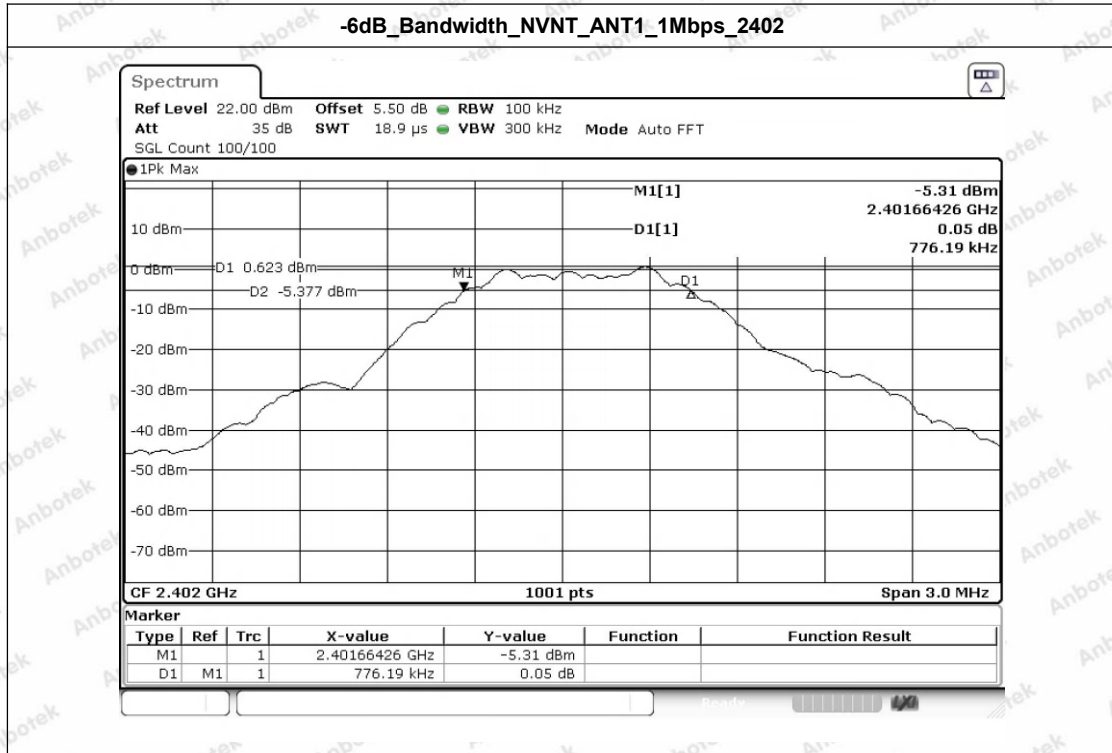
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## Test Graphs



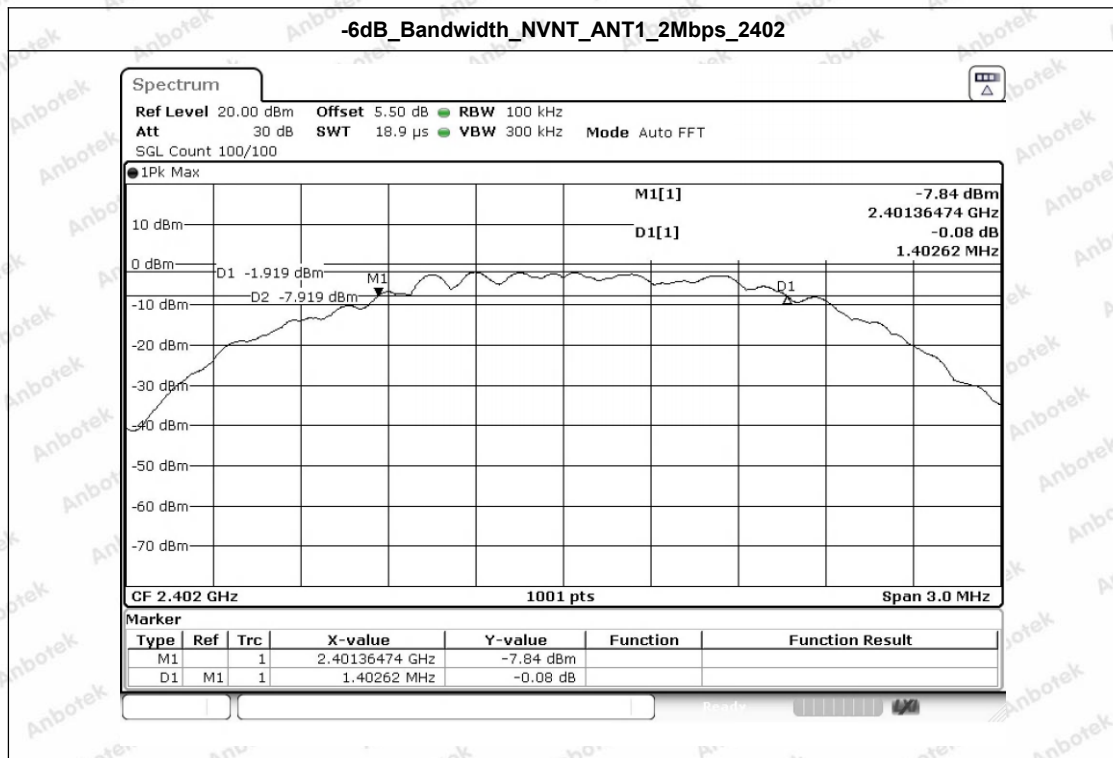
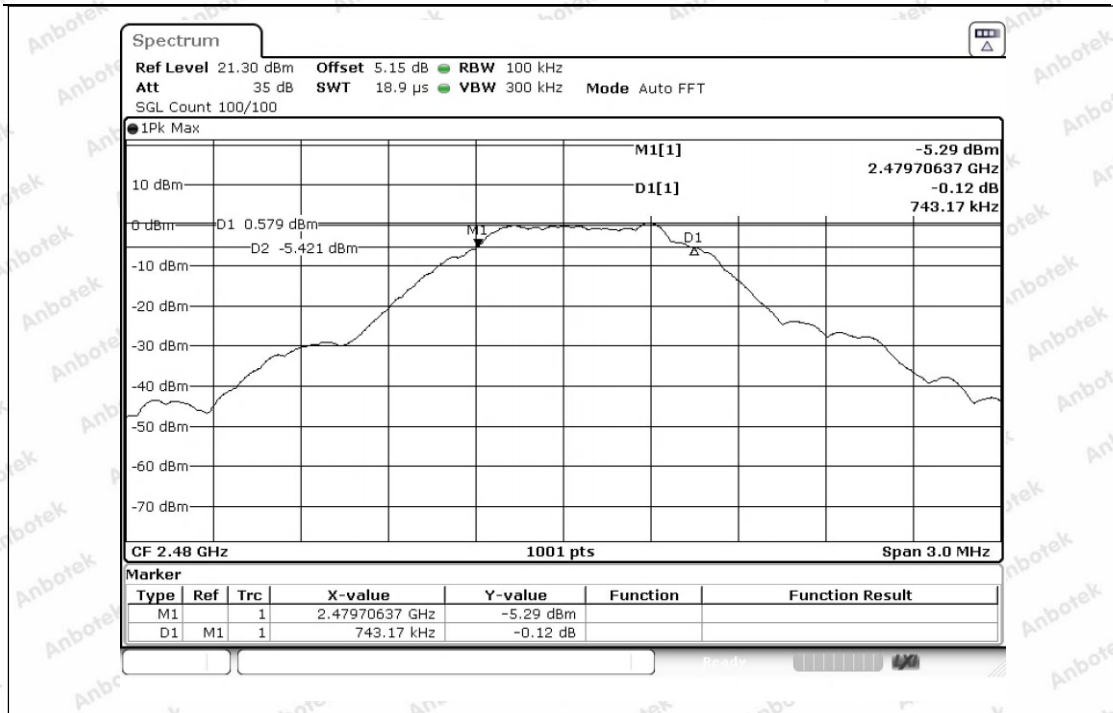
**-6dB\_Bandwidth\_NVNT\_ANT1\_1Mbps\_2480**

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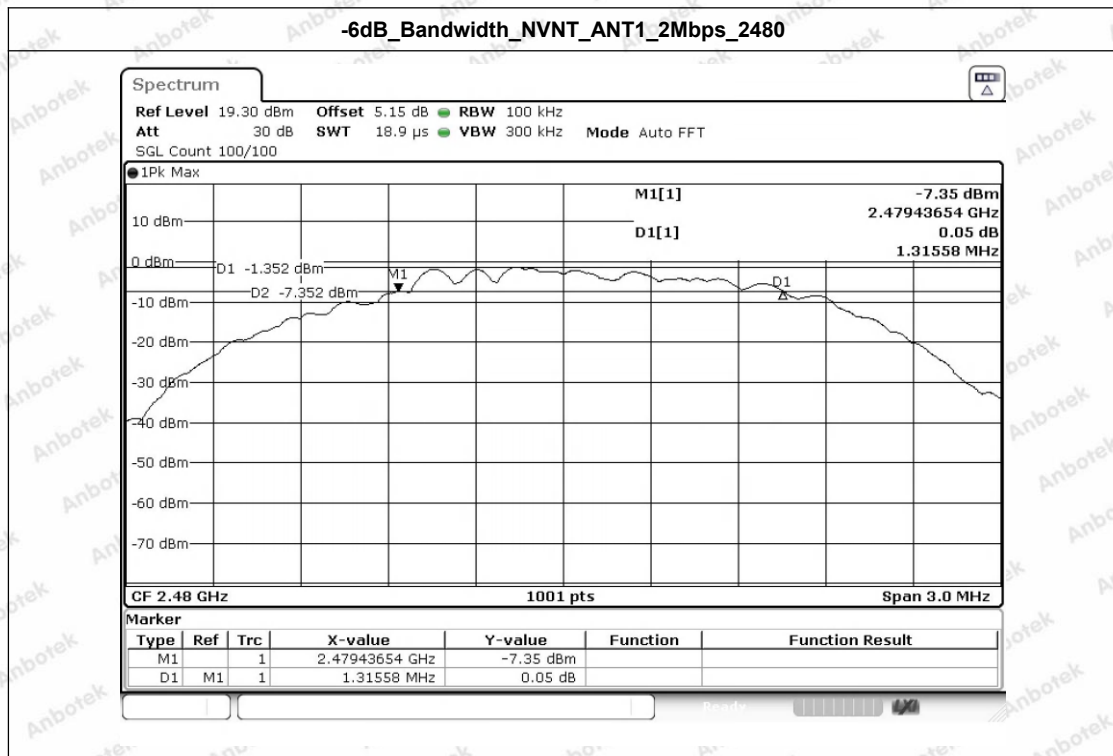
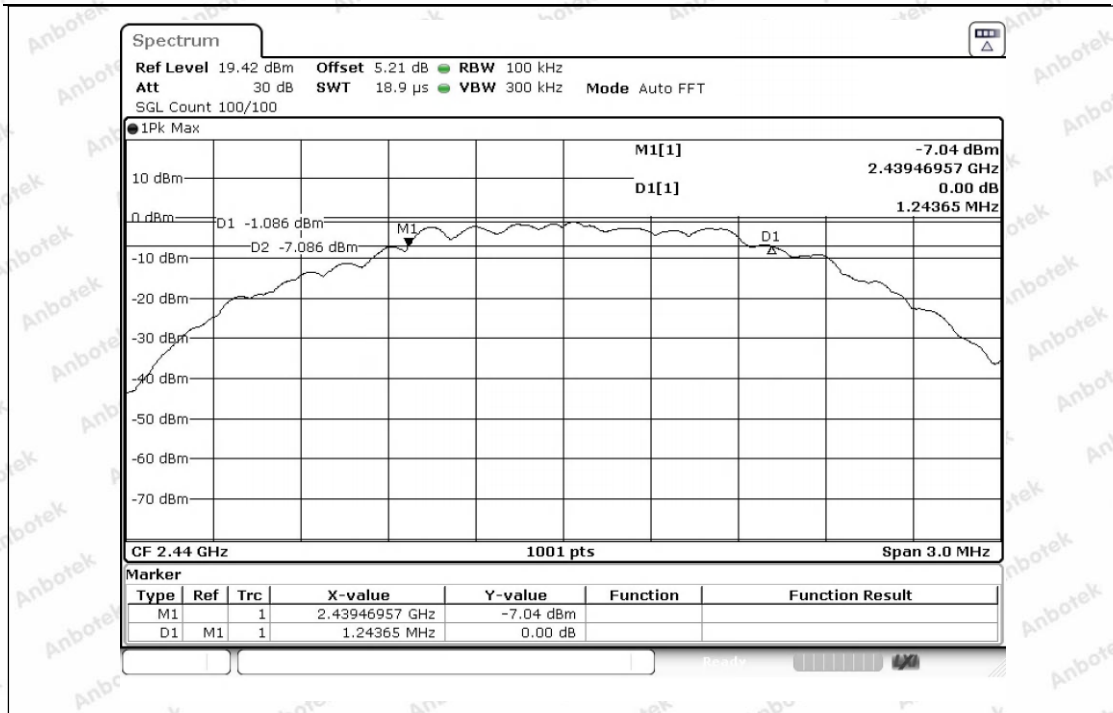
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**-6dB\_Bandwidth\_NVNT\_ANT1\_2Mbps\_2440**





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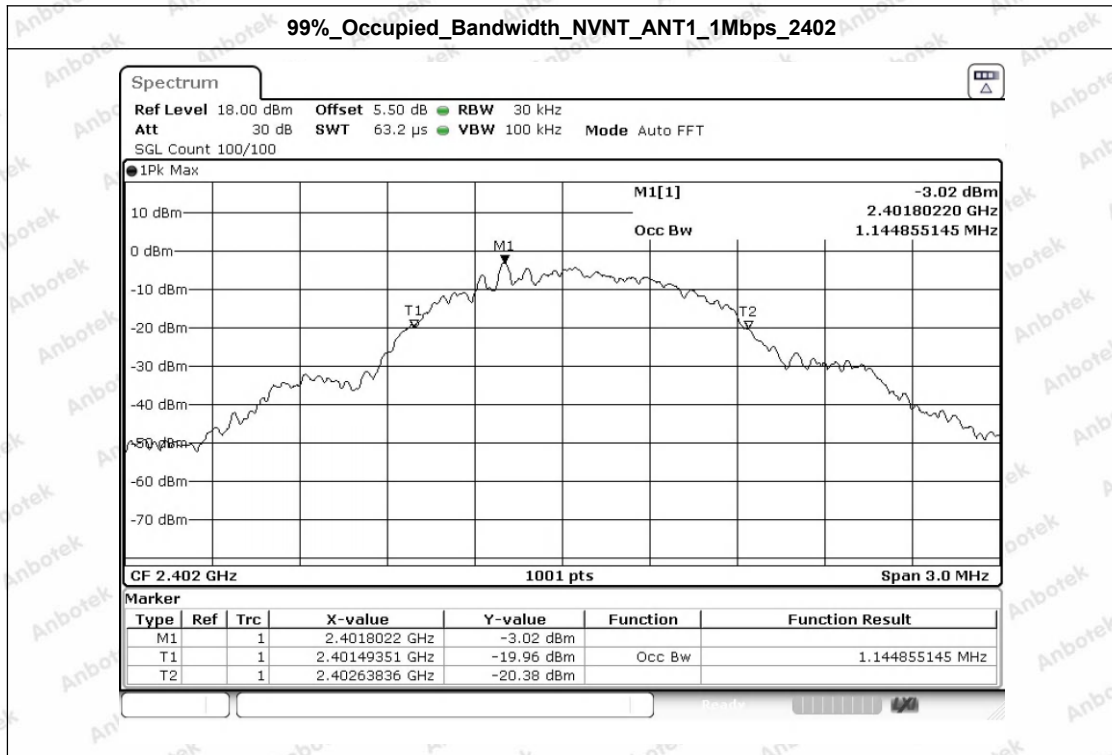


## Appendix B: 99% Occupied Bandwidth

### Test Result

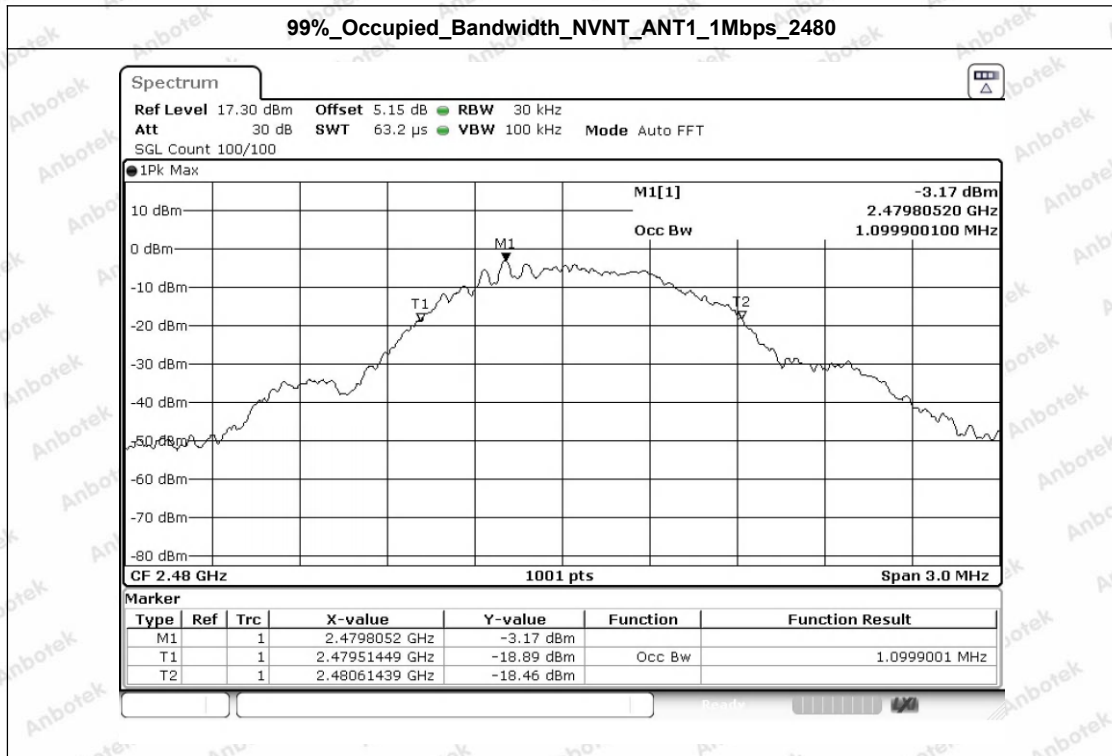
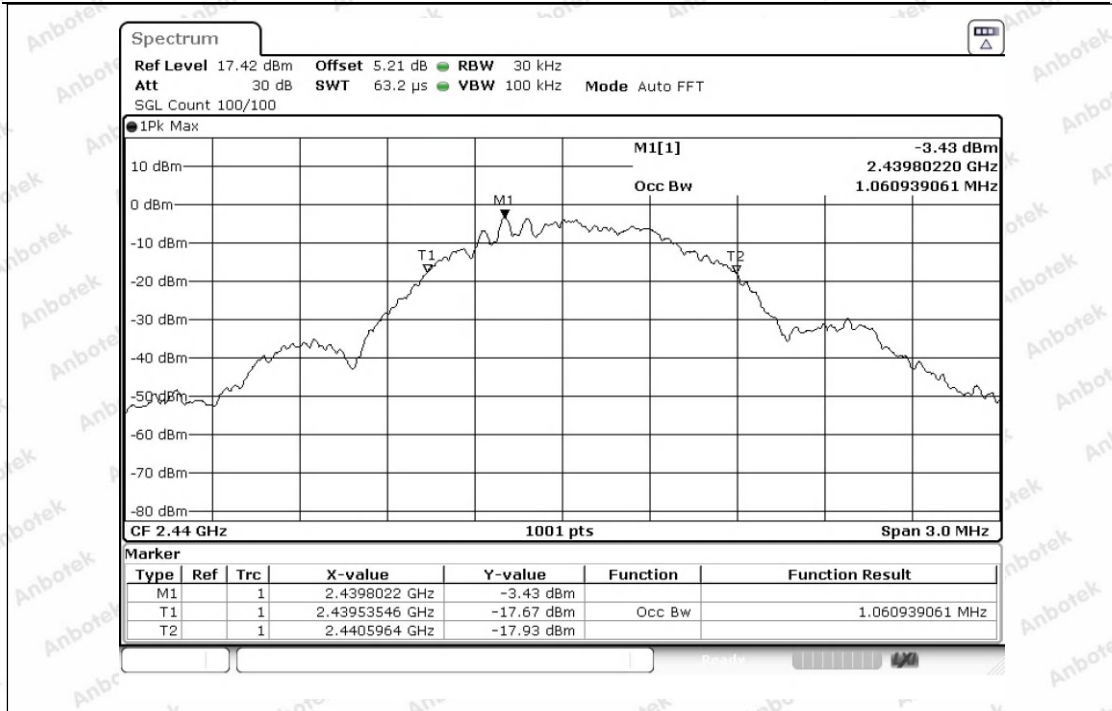
Condition	Antenna	Rate	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	1Mbps	2402	1.145
NVNT	ANT1	1Mbps	2440	1.061
NVNT	ANT1	1Mbps	2480	1.100
NVNT	ANT1	2Mbps	2402	2.065
NVNT	ANT1	2Mbps	2440	1.978
NVNT	ANT1	2Mbps	2480	2.068

### Test Graphs



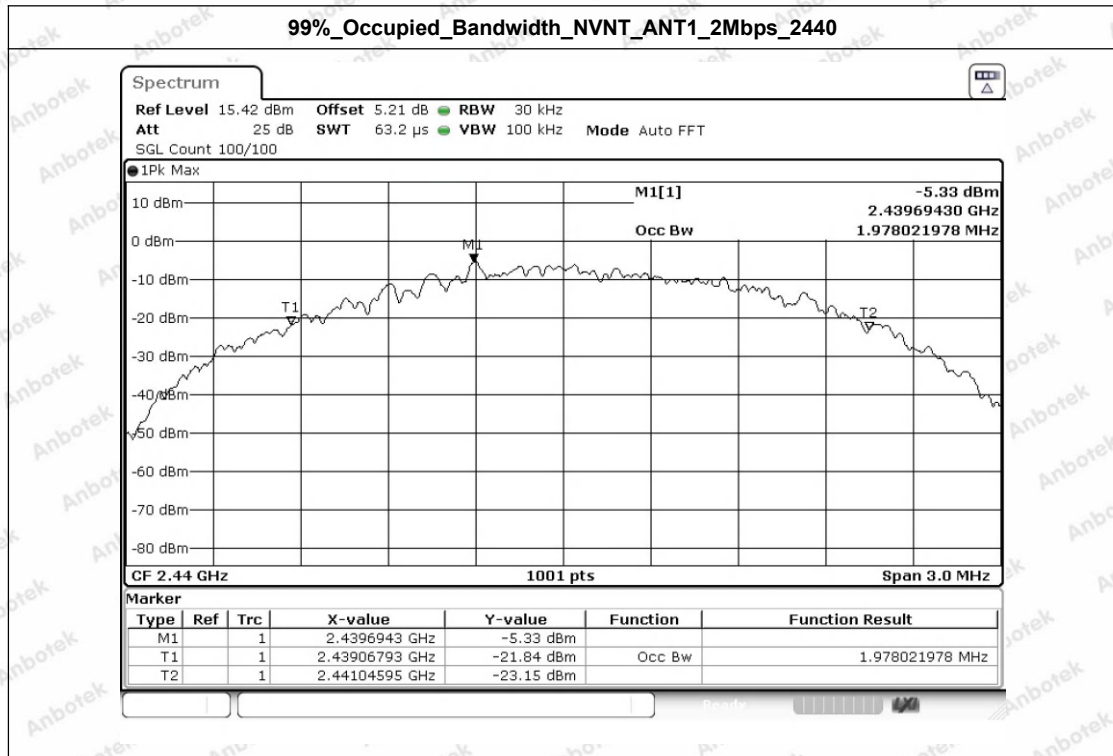
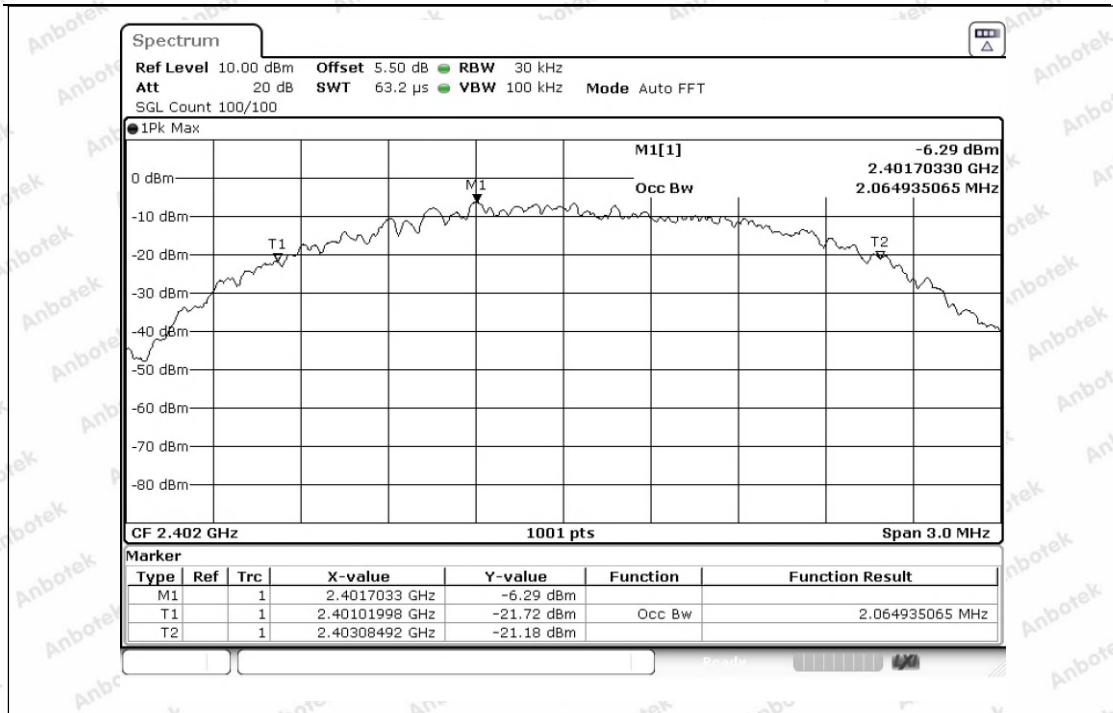
**99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_1Mbps\_2440**





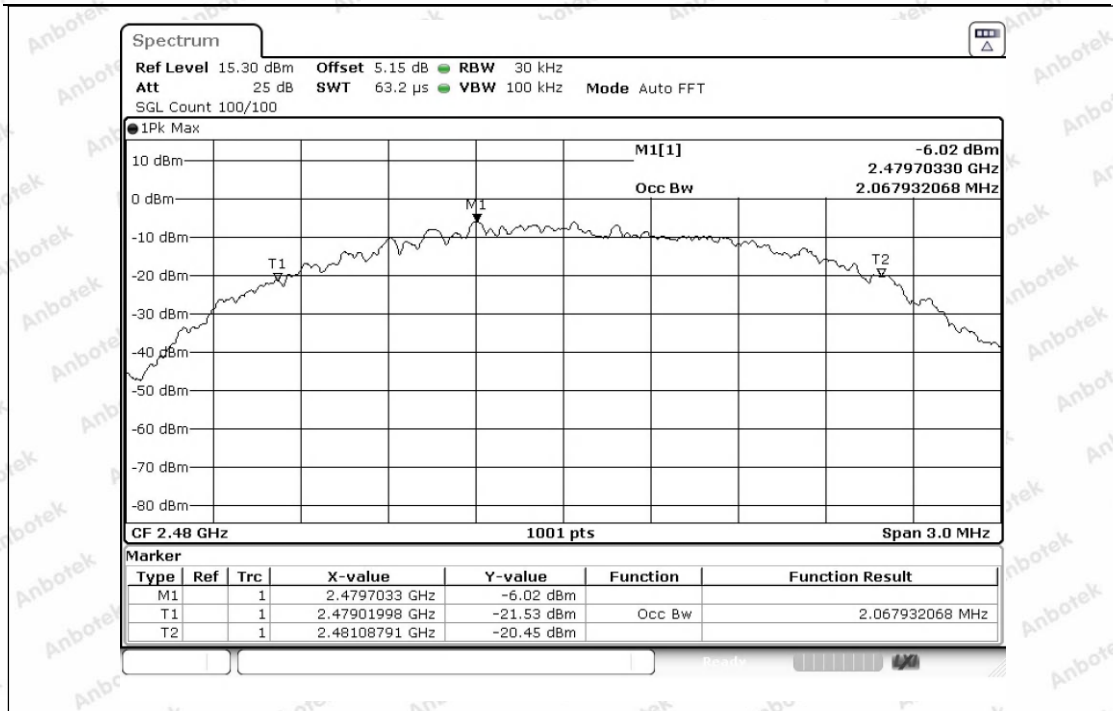
99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_2Mbps\_2402





**99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_2Mbps\_2480**





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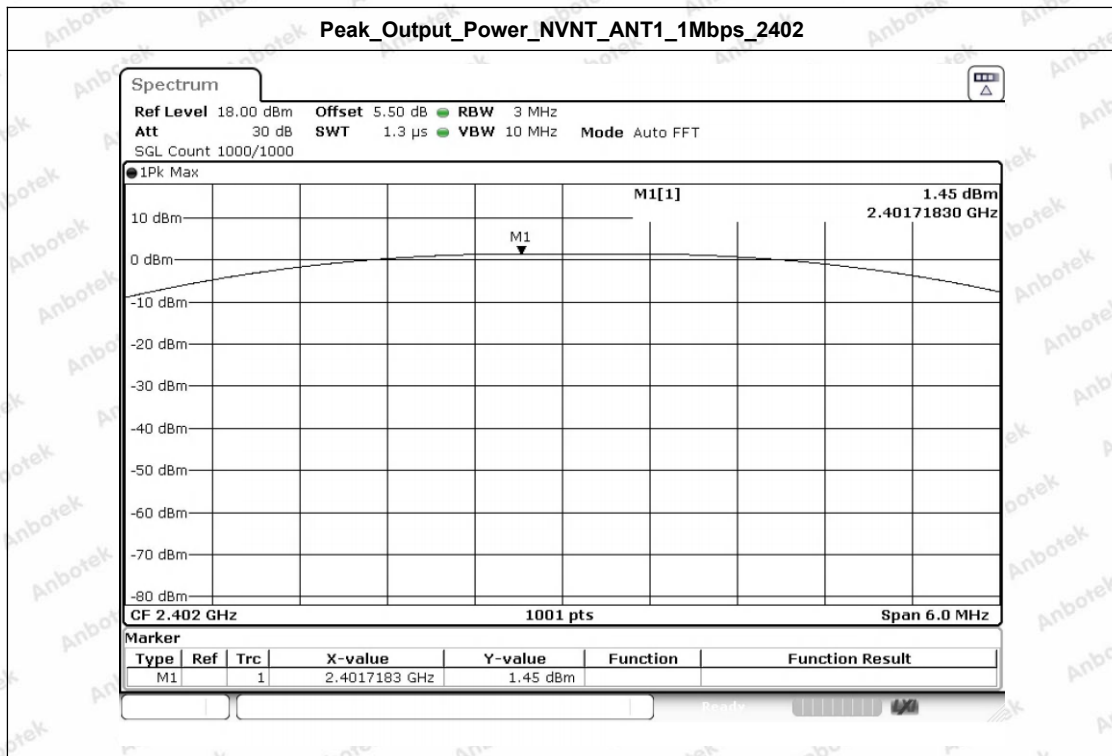


## Appendix C: Maximum conducted output power

### Test Result Peak

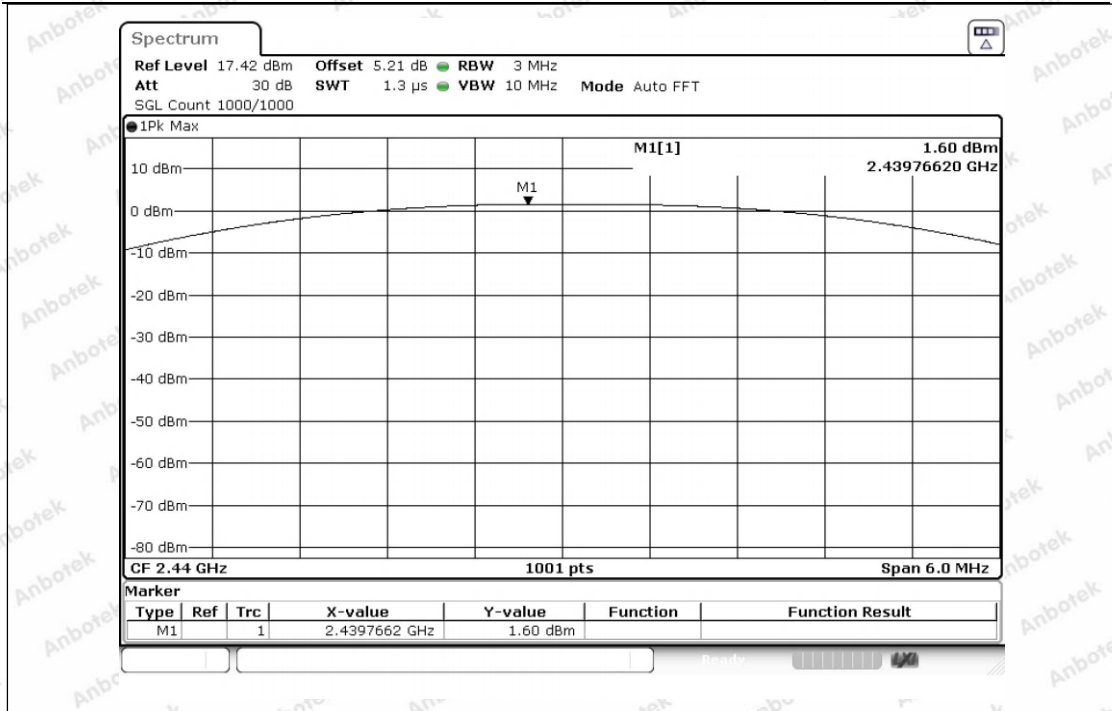
Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1Mbps	2402	1.45	1.40	1000	Pass
NVNT	ANT1	1Mbps	2440	1.60	1.44	1000	Pass
NVNT	ANT1	1Mbps	2480	1.60	1.44	1000	Pass
NVNT	ANT1	2Mbps	2402	1.50	1.41	1000	Pass
NVNT	ANT1	2Mbps	2440	1.68	1.47	1000	Pass
NVNT	ANT1	2Mbps	2480	1.56	1.43	1000	Pass

### Test Graphs Peak

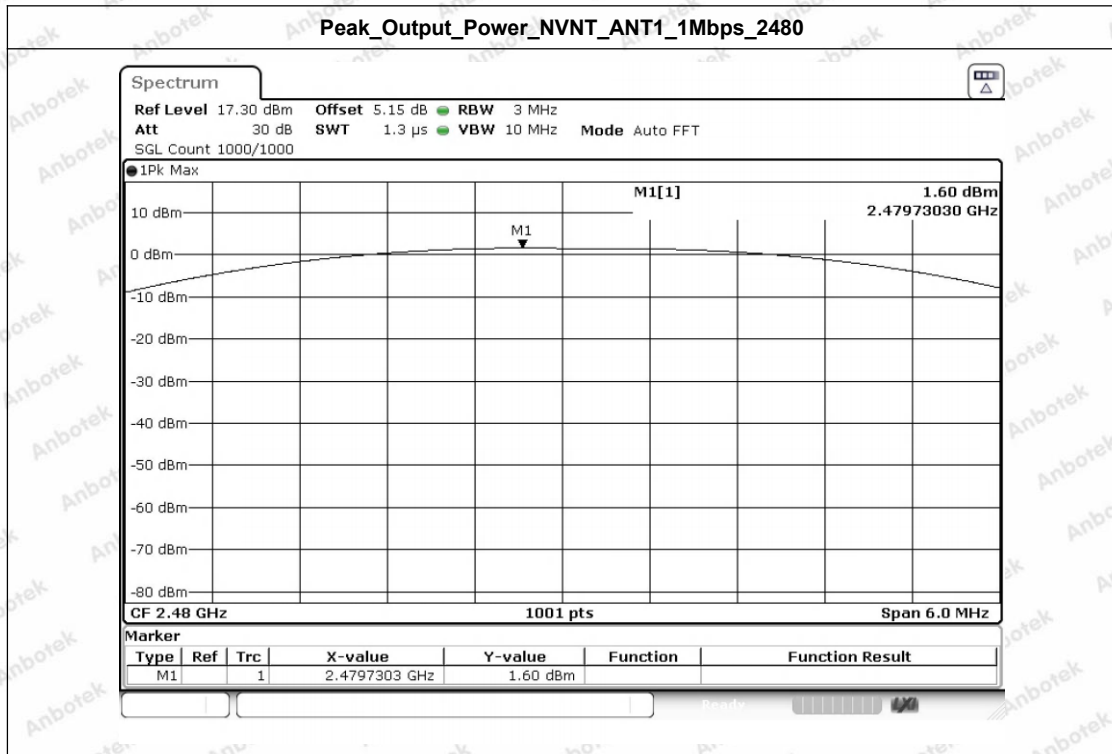


**Peak\_Output\_Power\_NVNT\_ANT1\_1Mbps\_2440**



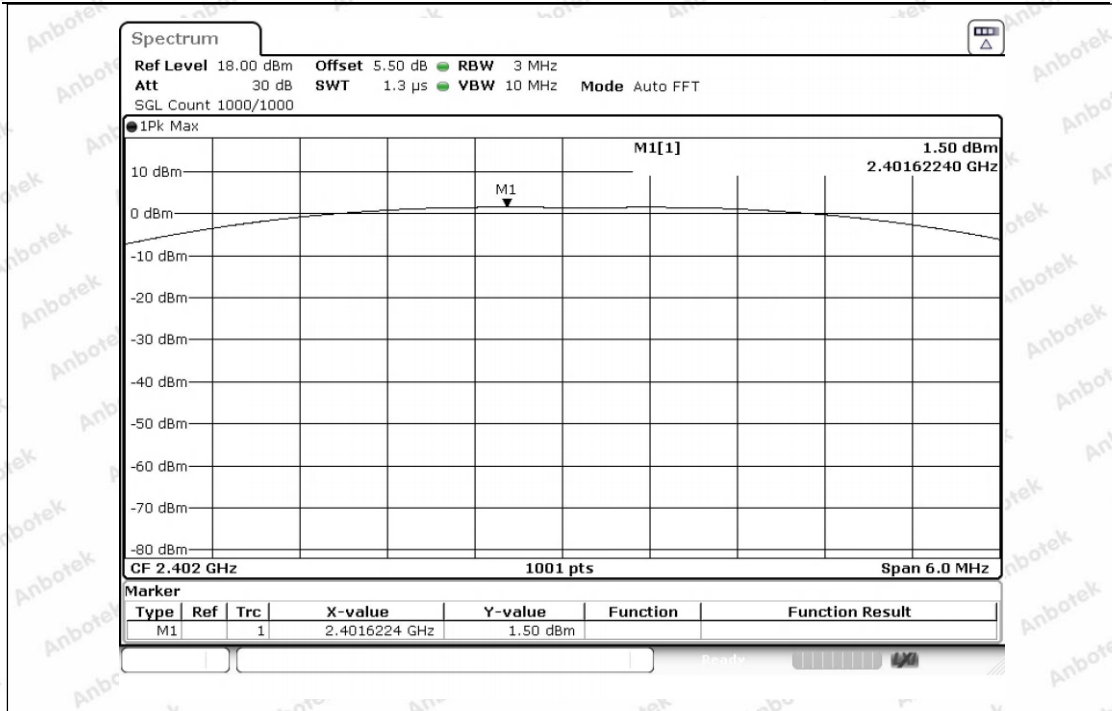


### Peak\_Output\_Power\_NVNT\_ANT1\_1Mbps\_2480

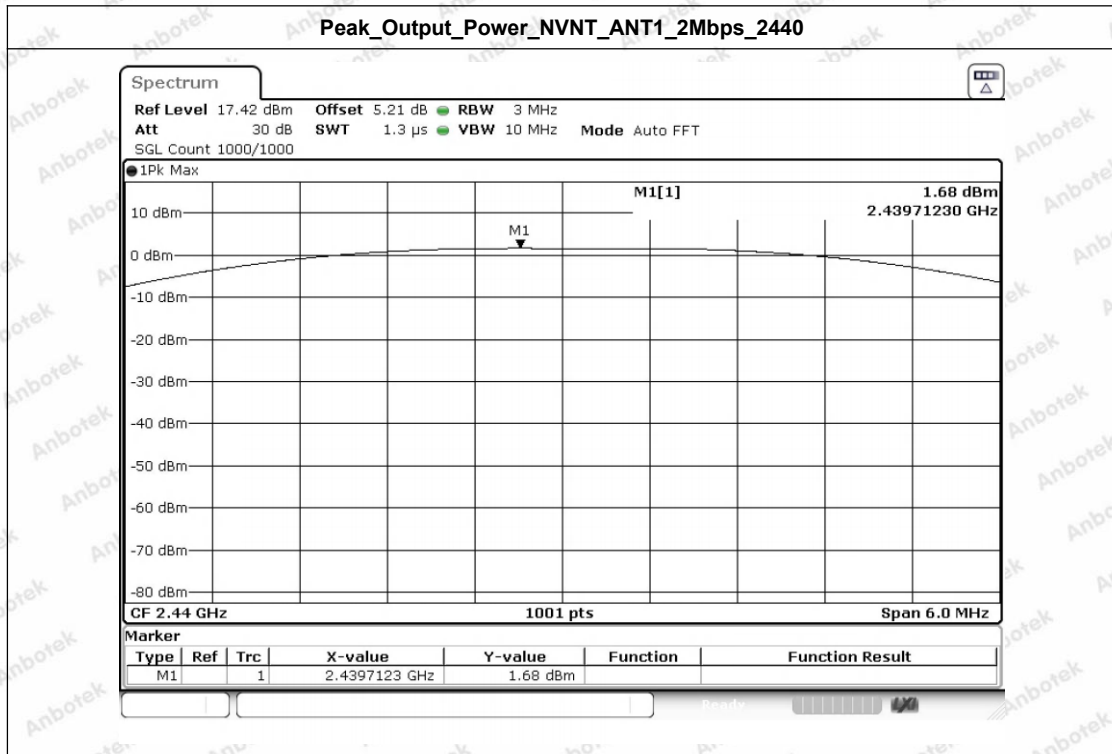


### Peak\_Output\_Power\_NVNT\_ANT1\_2Mbps\_2402



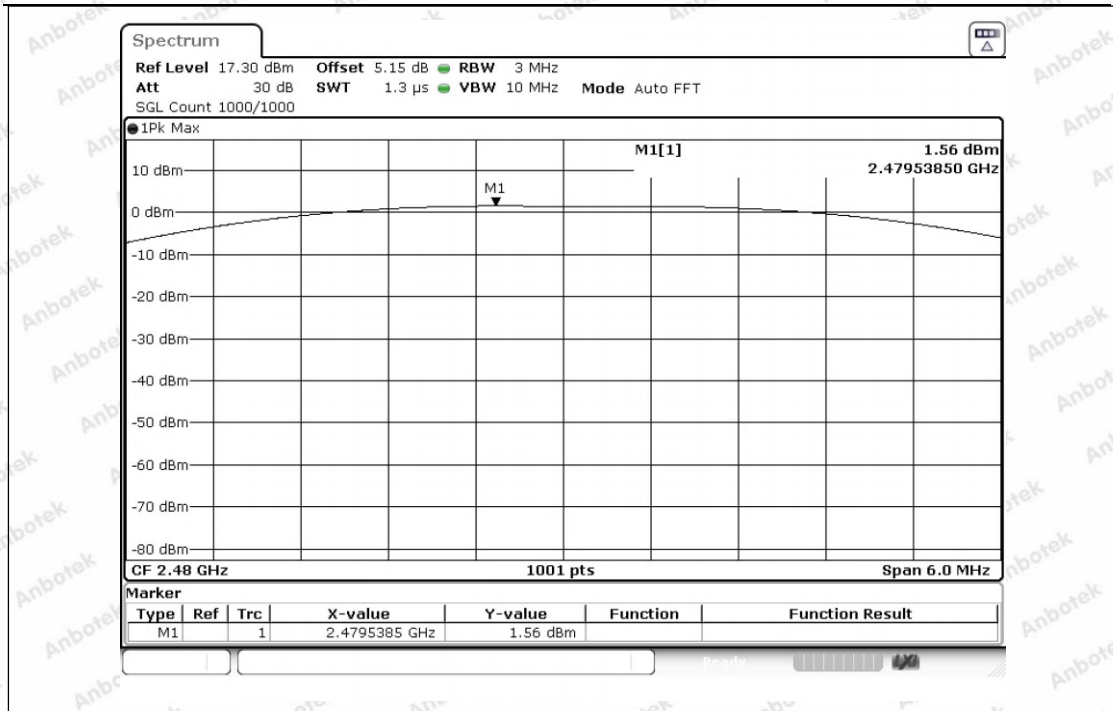


Peak\_Output\_Power\_NVNT\_ANT1\_2Mbps\_2440



Peak\_Output\_Power\_NVNT\_ANT1\_2Mbps\_2480





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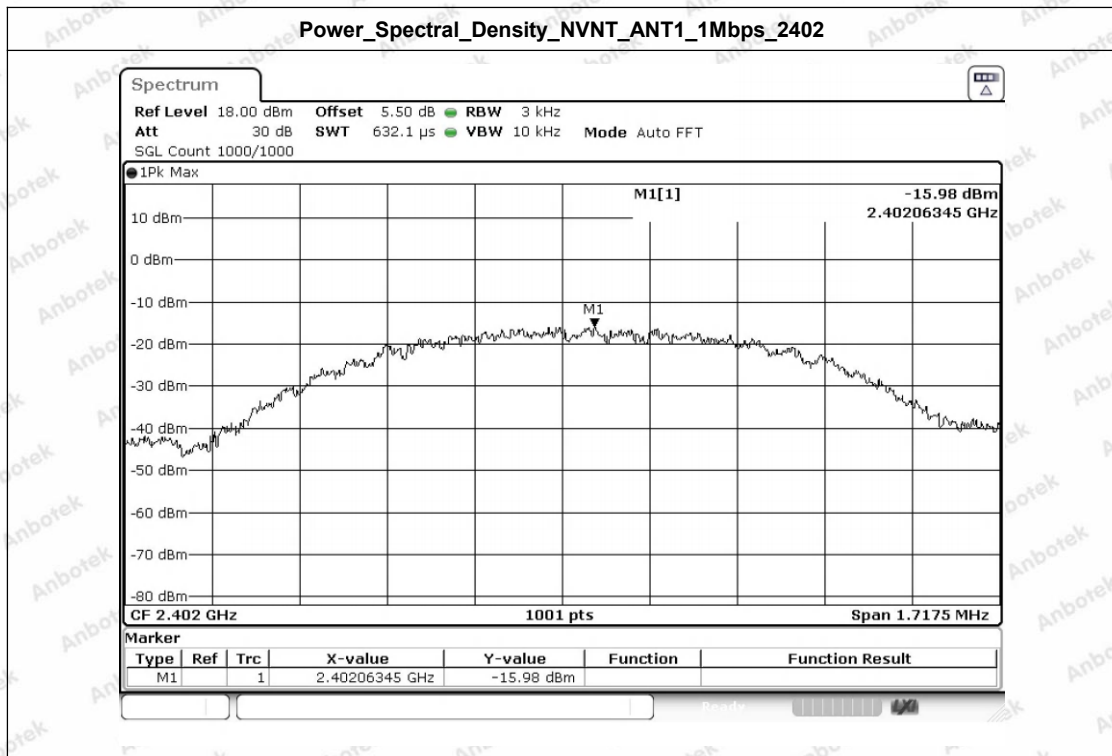


## Appendix D: Maximum power spectral density

### Test Result

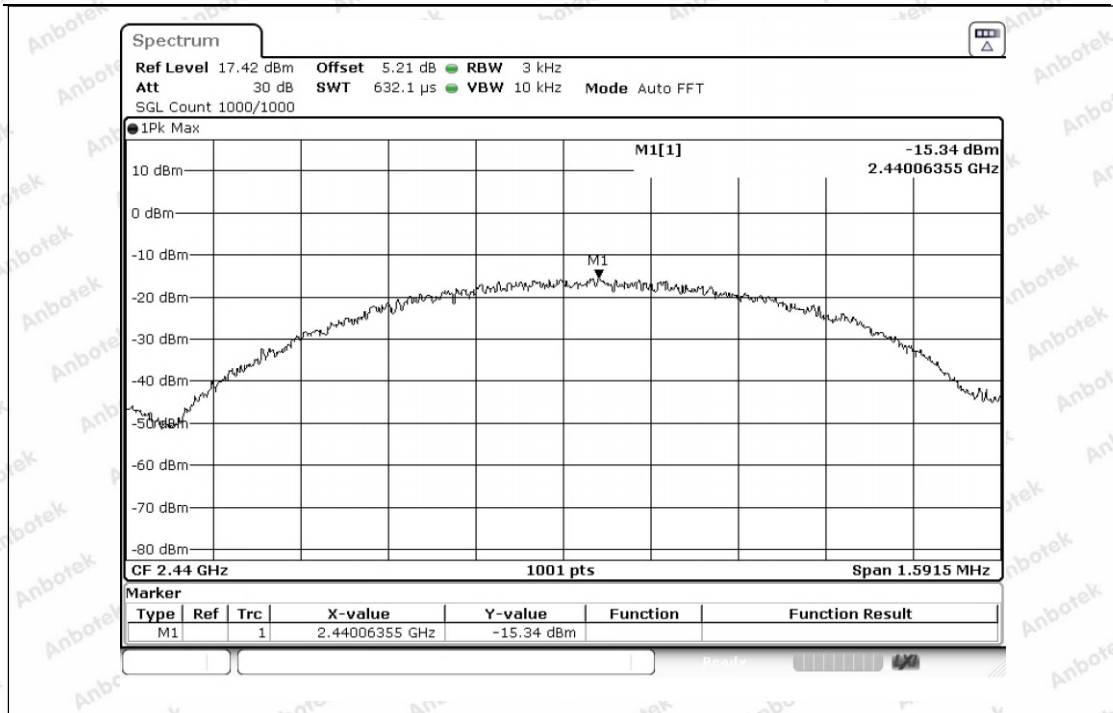
Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm)	Limit(dBm/3kHz)	Result
NVNT	ANT1	1Mbps	2402	-15.98	8	Pass
NVNT	ANT1	1Mbps	2440	-15.34	8	Pass
NVNT	ANT1	1Mbps	2480	-13.50	8	Pass
NVNT	ANT1	2Mbps	2402	-19.77	8	Pass
NVNT	ANT1	2Mbps	2440	-18.79	8	Pass
NVNT	ANT1	2Mbps	2480	-18.81	8	Pass

### Test Graphs

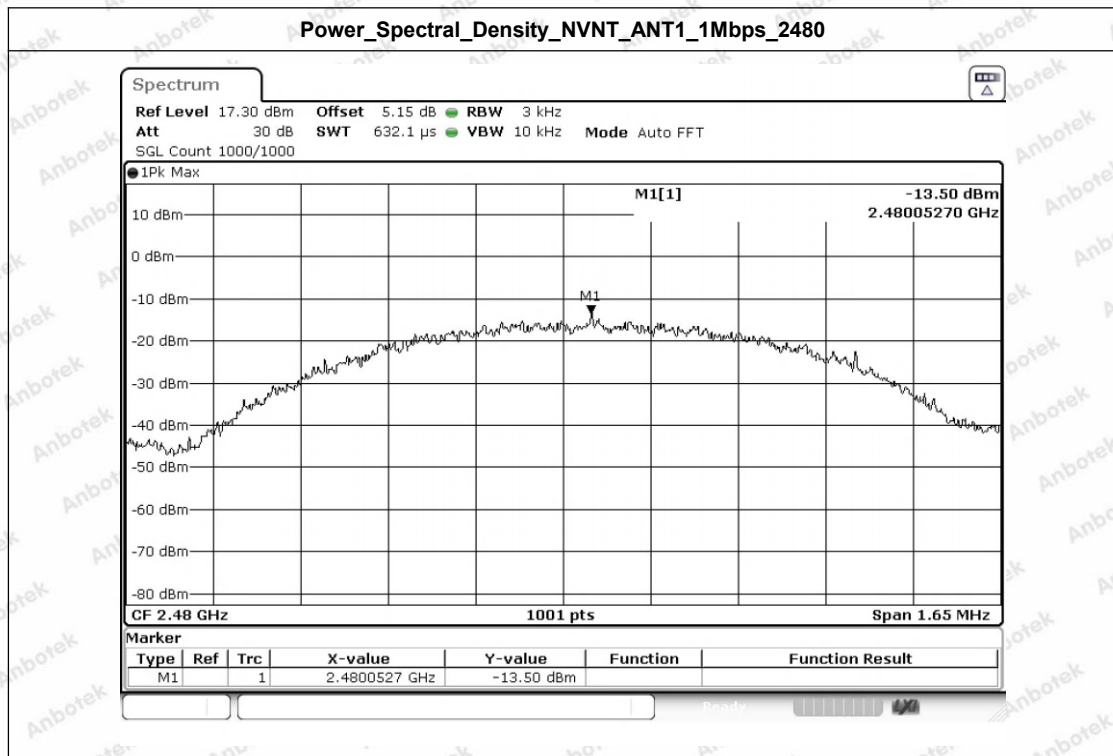


**Power\_Spectral\_Density\_NVNT\_ANT1\_1Mbps\_2440**



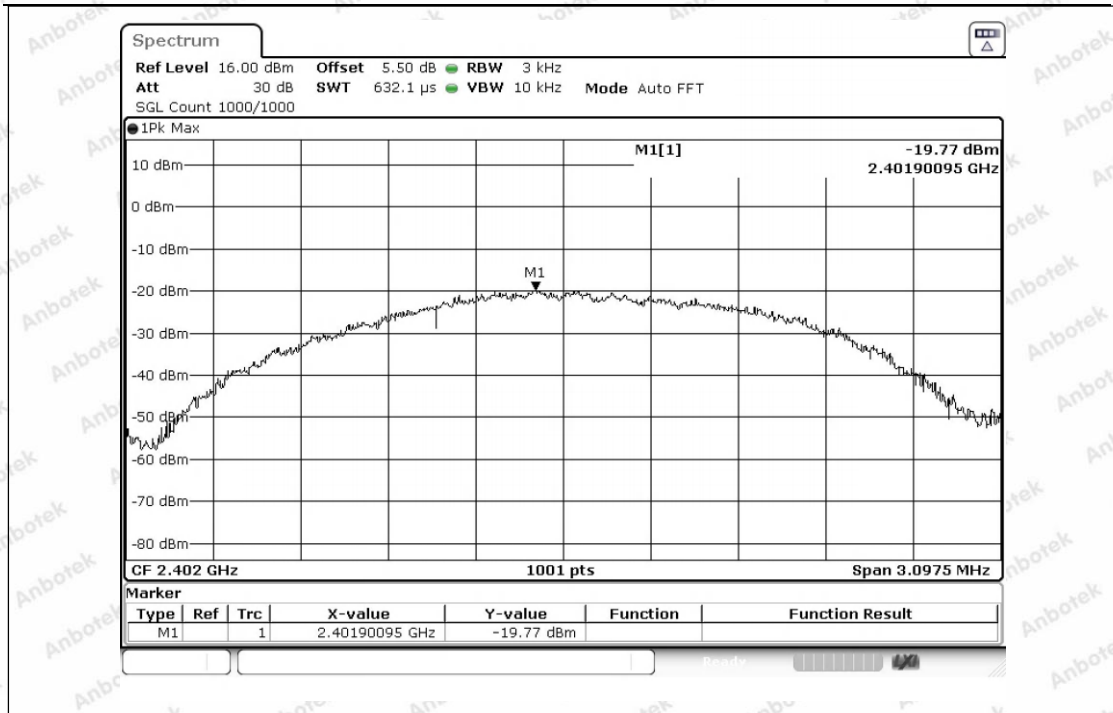


Power\_Spectral\_Density\_NVNT\_ANT1\_1Mbps\_2480

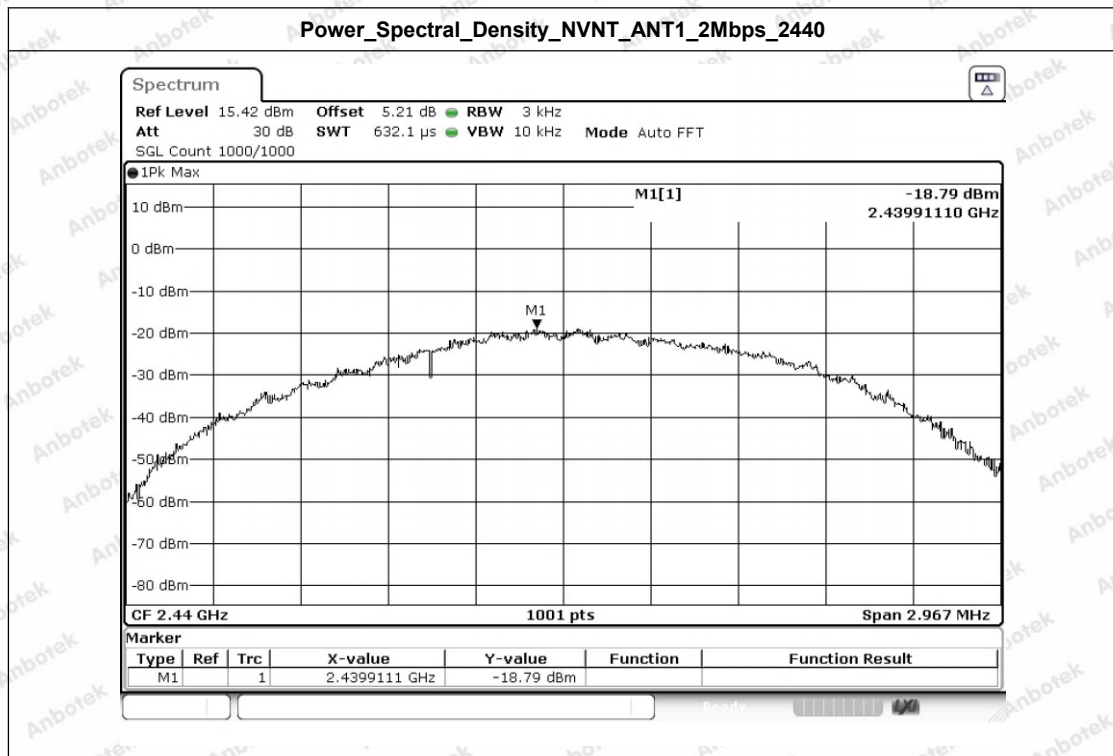


Power\_Spectral\_Density\_NVNT\_ANT1\_2Mbps\_2402



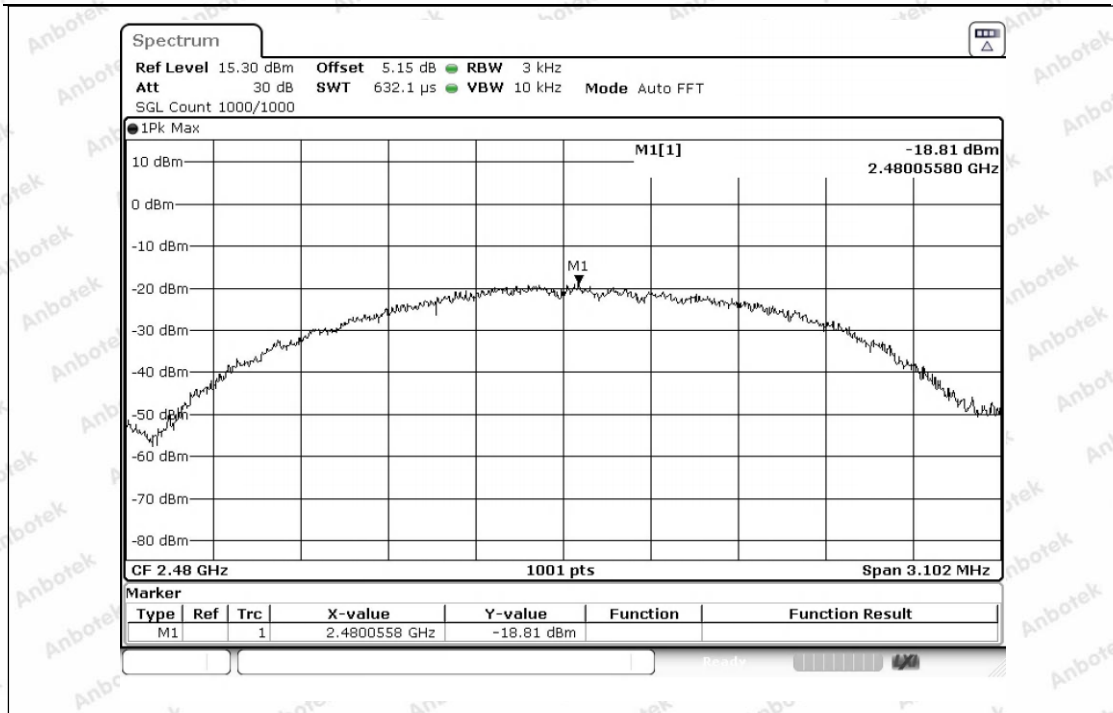


Power\_Spectral\_Density\_NVNT\_ANT1\_2Mbps\_2440



Power\_Spectral\_Density\_NVNT\_ANT1\_2Mbps\_2480





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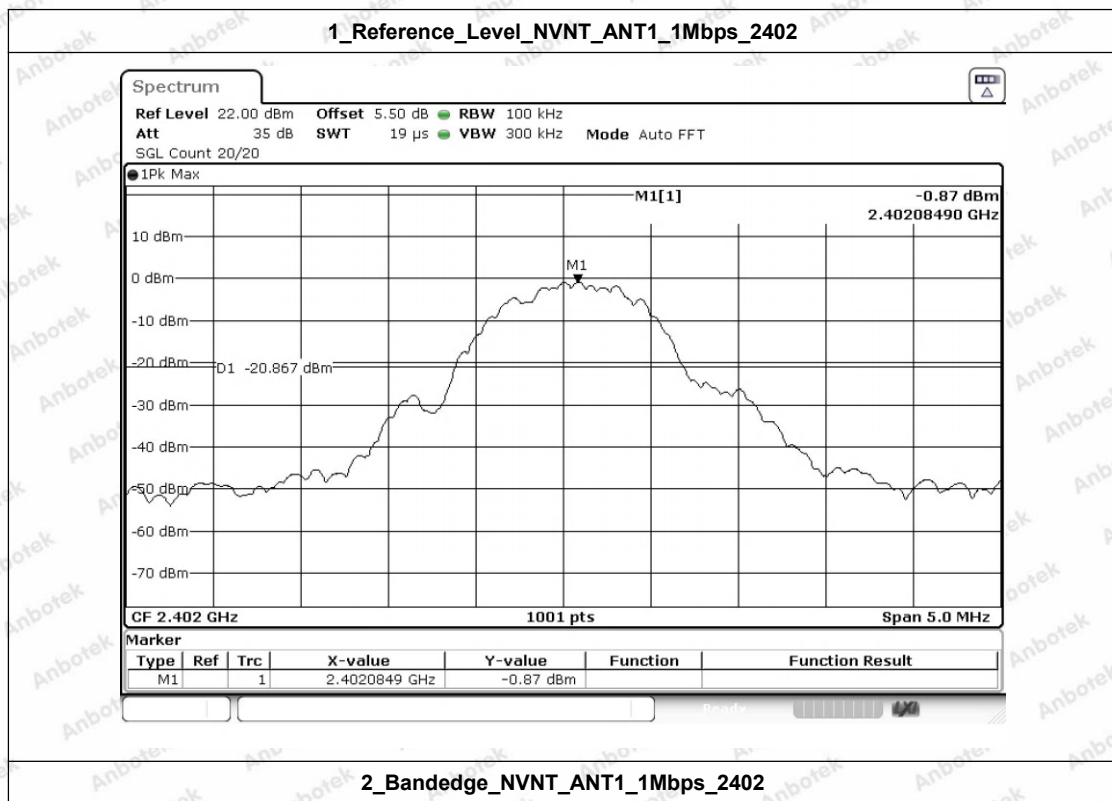


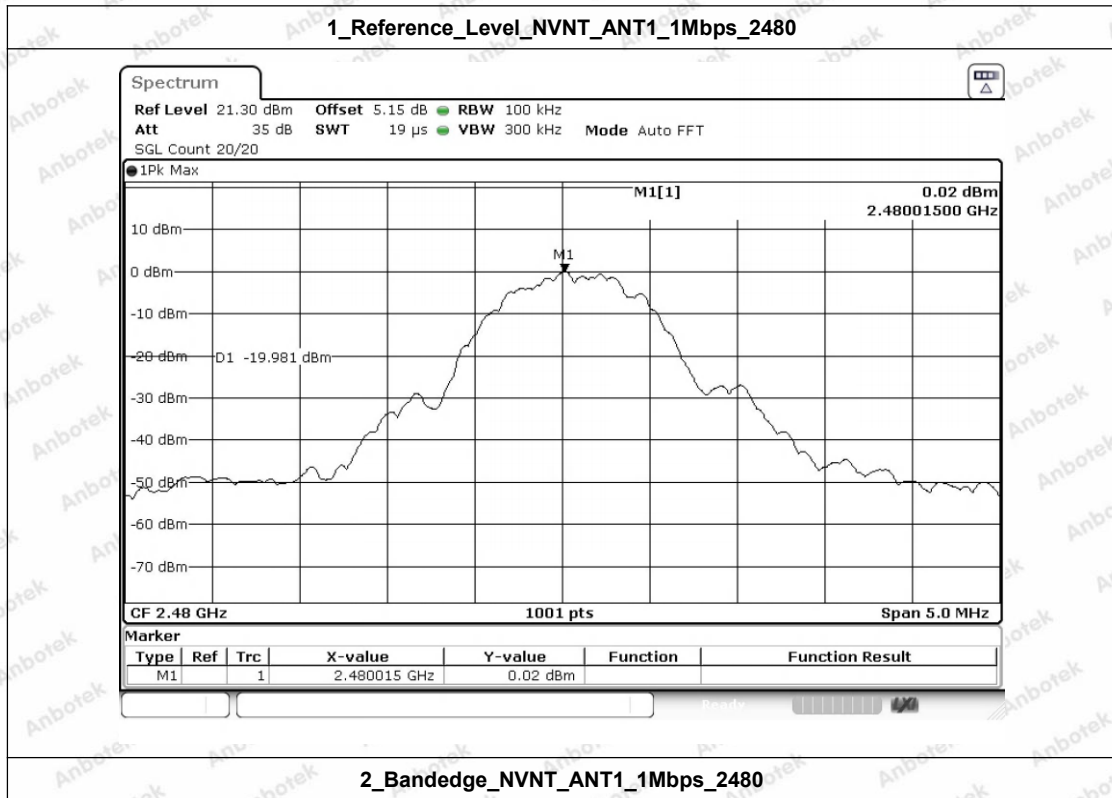
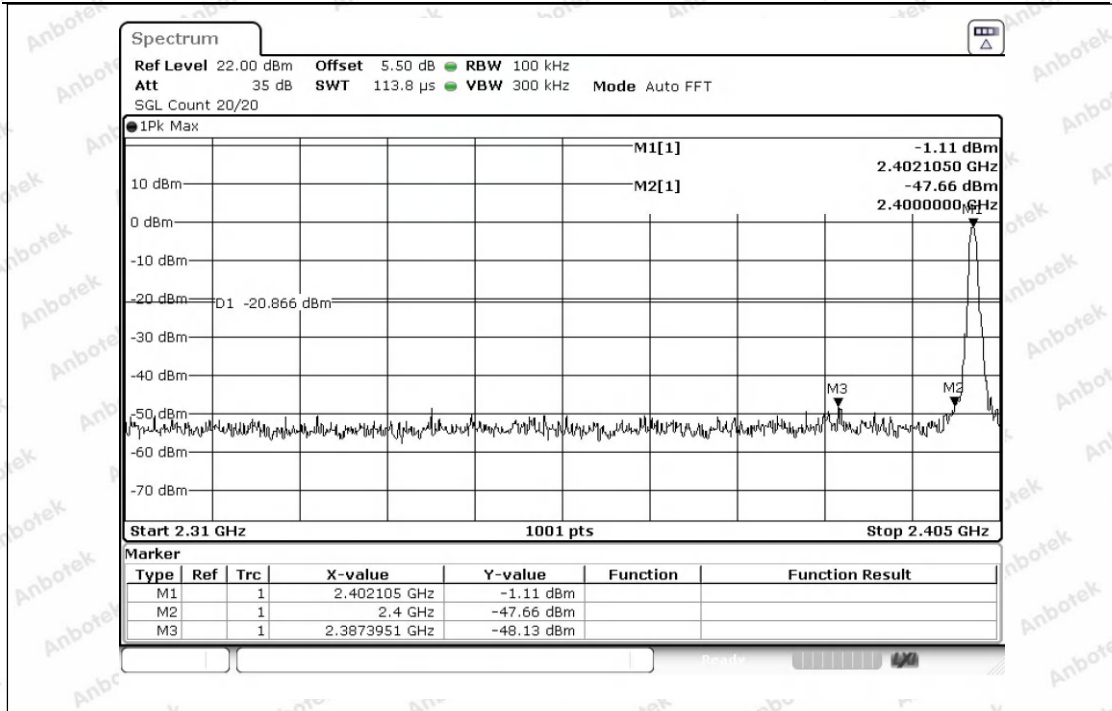
## Appendix E: Band edge measurements

### Test Result

Condition	Antenna	Rate	TX_Frequency (MHz)	Max. Mark Frequency (MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402	2387.395	-48.132	-20.866	Pass
NVNT	ANT1	1Mbps	2480	2496.216	-49.560	-19.982	Pass
NVNT	ANT1	2Mbps	2402	2399.923	-38.777	-21.846	Pass
NVNT	ANT1	2Mbps	2480	2483.729	-53.542	-21.831	Pass

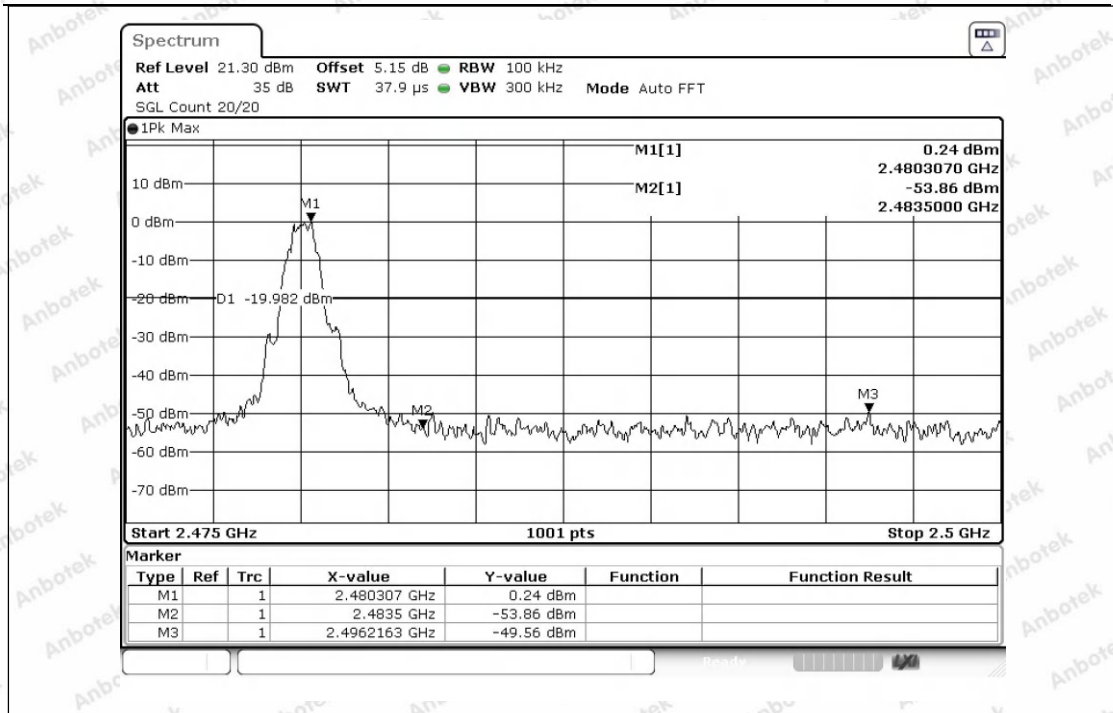
### Test Graphs



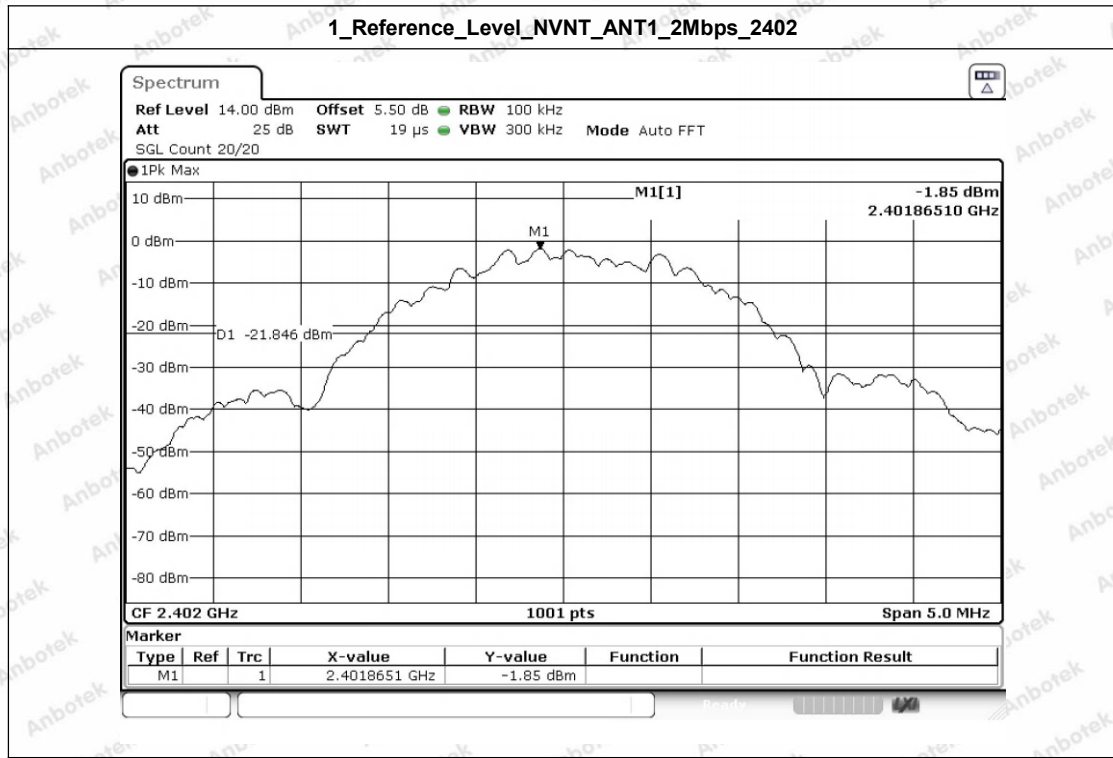


**2\_Bandedge\_NVNT\_ANT1\_1Mbps\_2480**



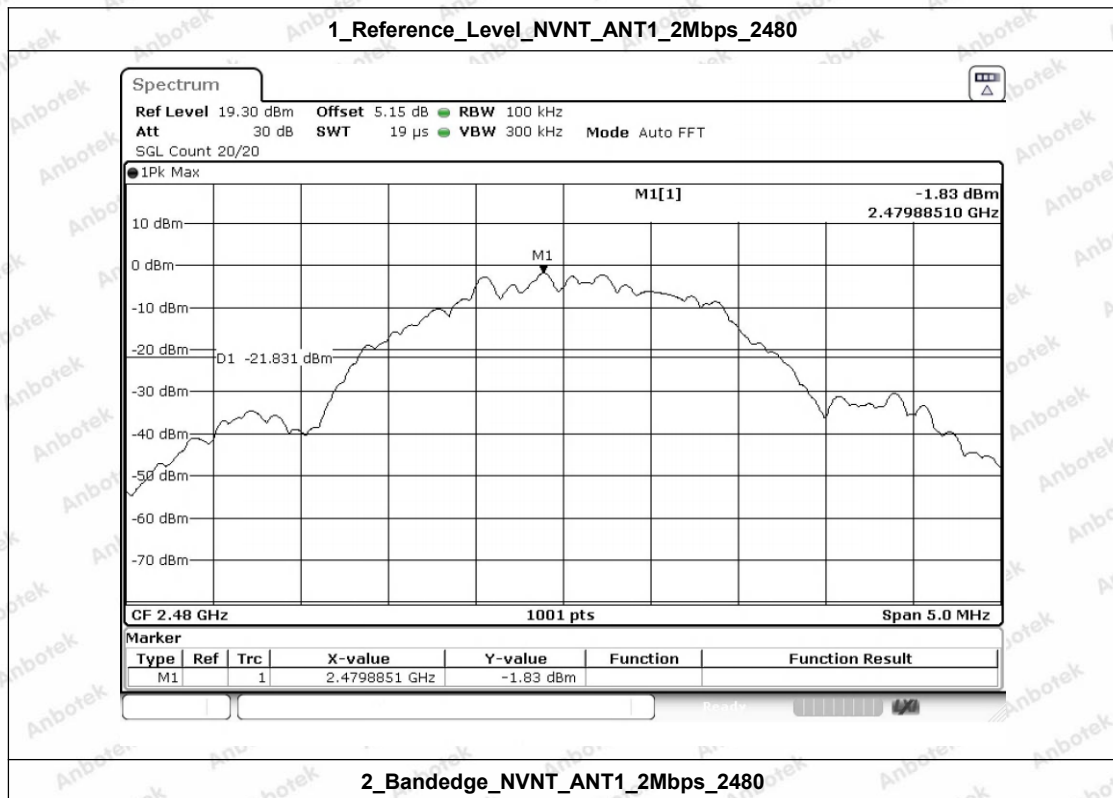
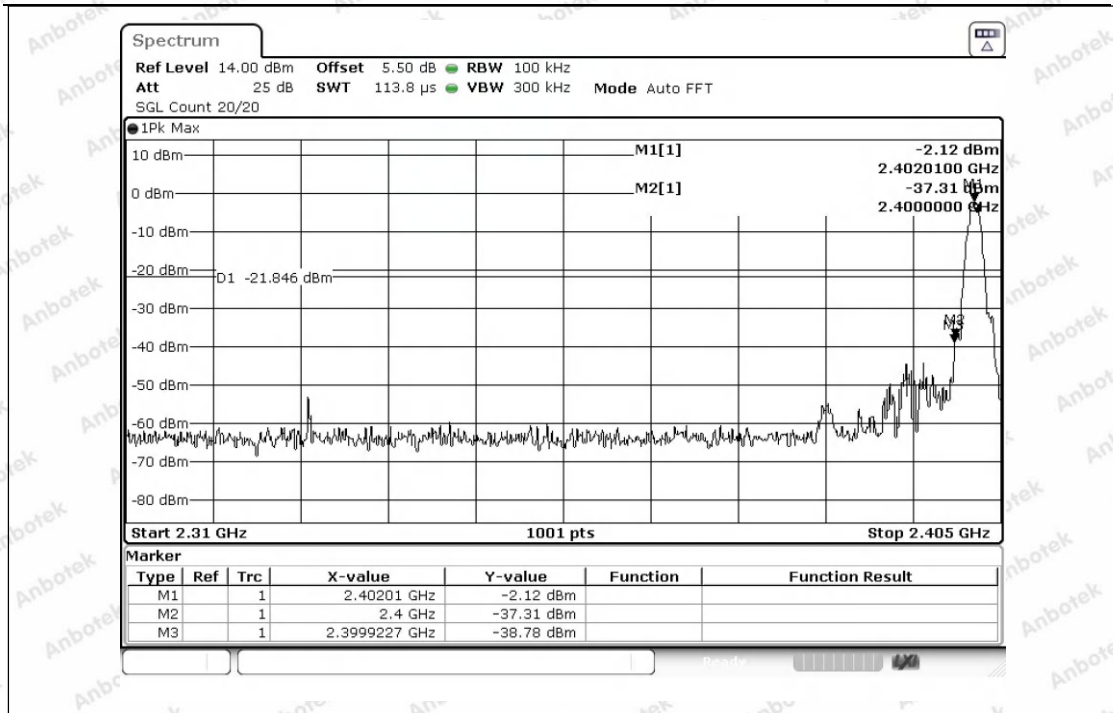


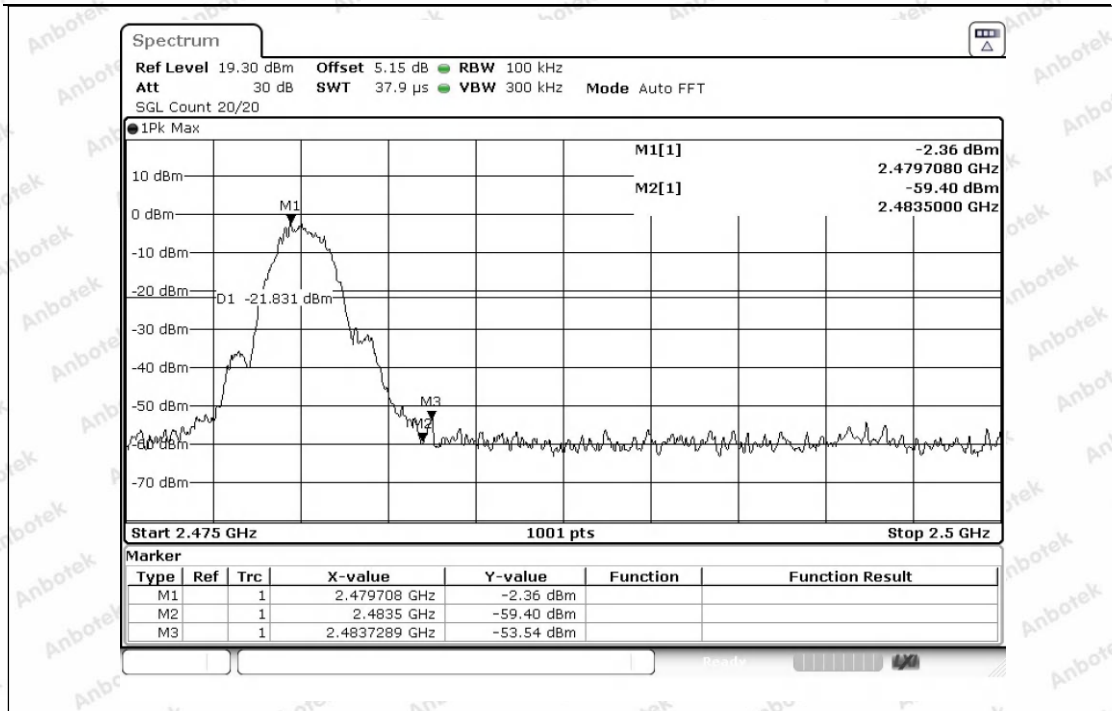
### 1\_Reference\_Level\_NVNT\_ANT1\_2Mbps\_2402



### 2\_Bandedge\_NVNT\_ANT1\_2Mbps\_2402







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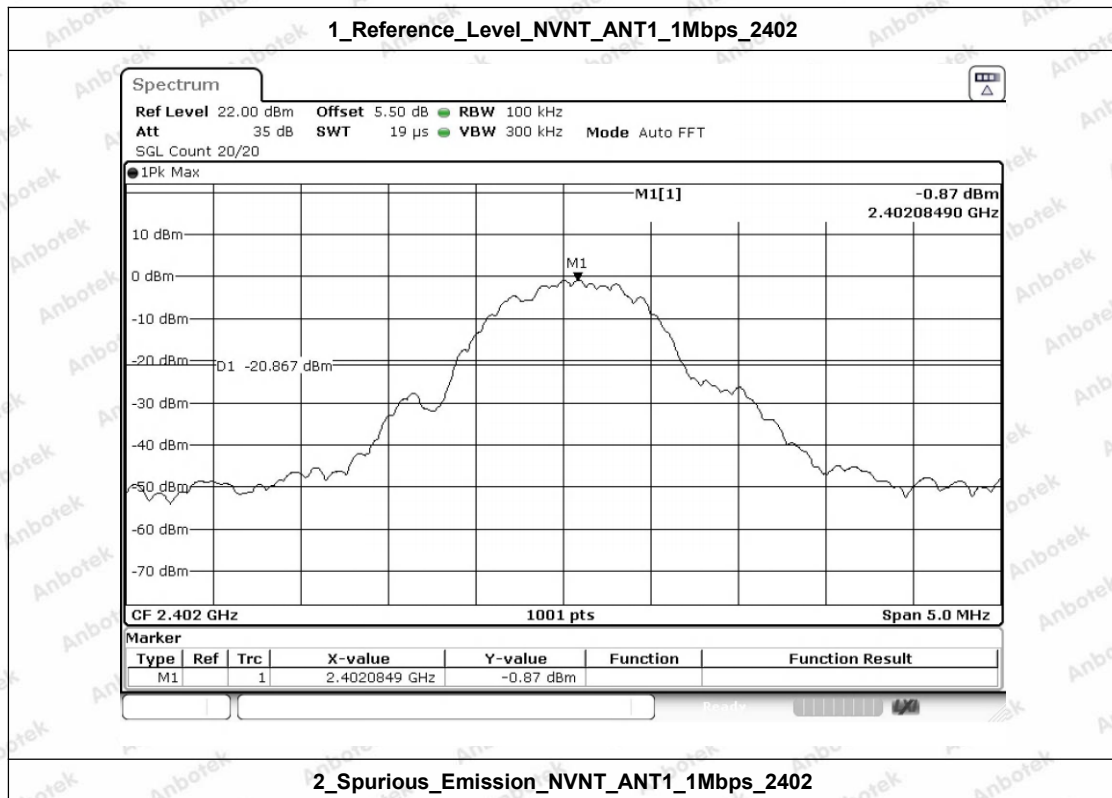


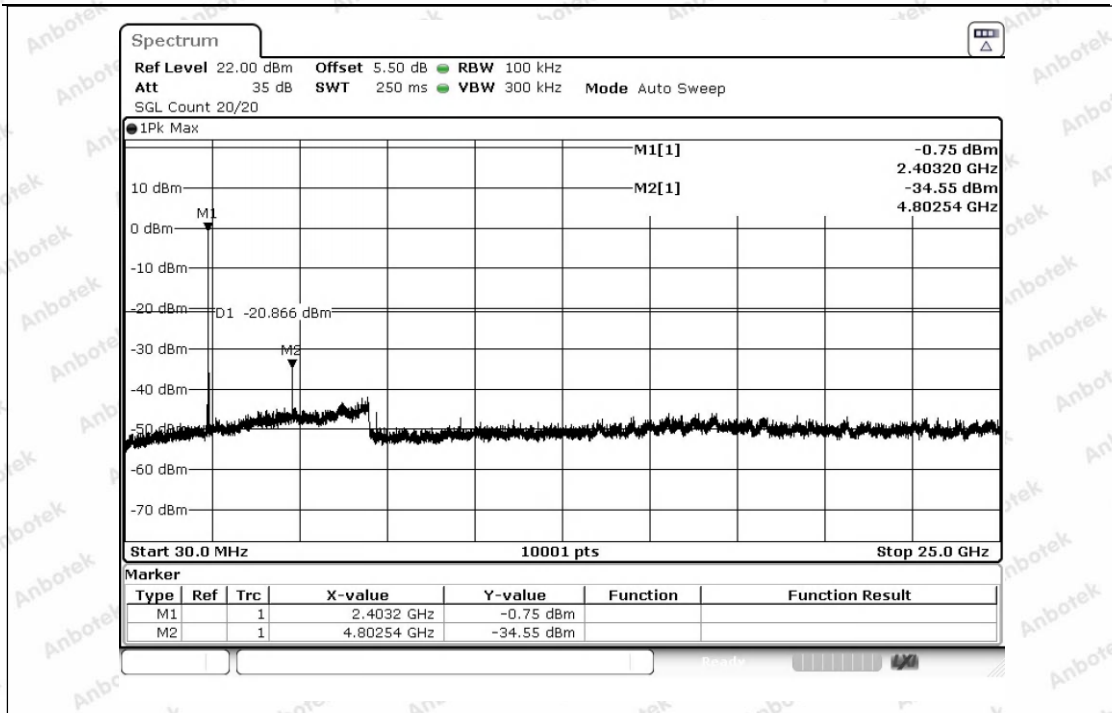
## Appendix F: Conducted Spurious Emission

### Test Result

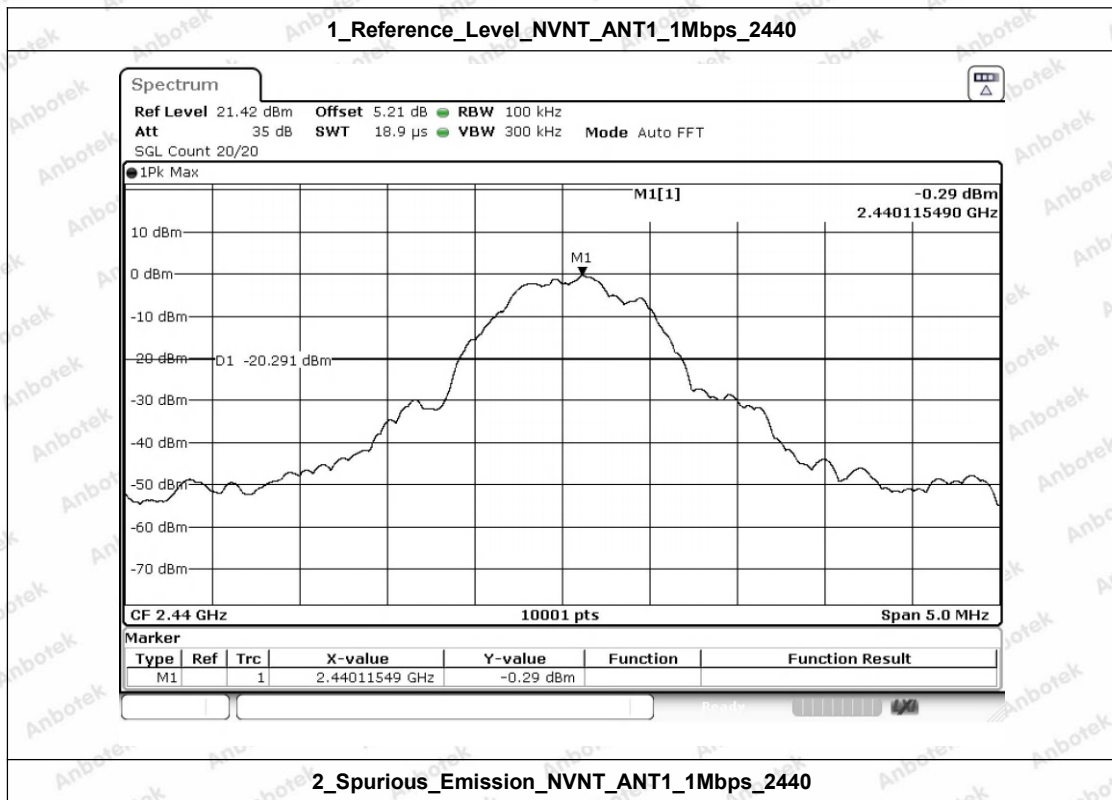
Condition	Antenna	Rate	TX_Frequency(MHz)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1Mbps	2402	-34.550	-20.866	Pass
NVNT	ANT1	1Mbps	2440	-34.287	-20.290	Pass
NVNT	ANT1	1Mbps	2480	-32.358	-19.982	Pass
NVNT	ANT1	2Mbps	2402	-35.679	-21.846	Pass
NVNT	ANT1	2Mbps	2440	-34.976	-21.409	Pass
NVNT	ANT1	2Mbps	2480	-32.377	-21.831	Pass

### Test Graphs



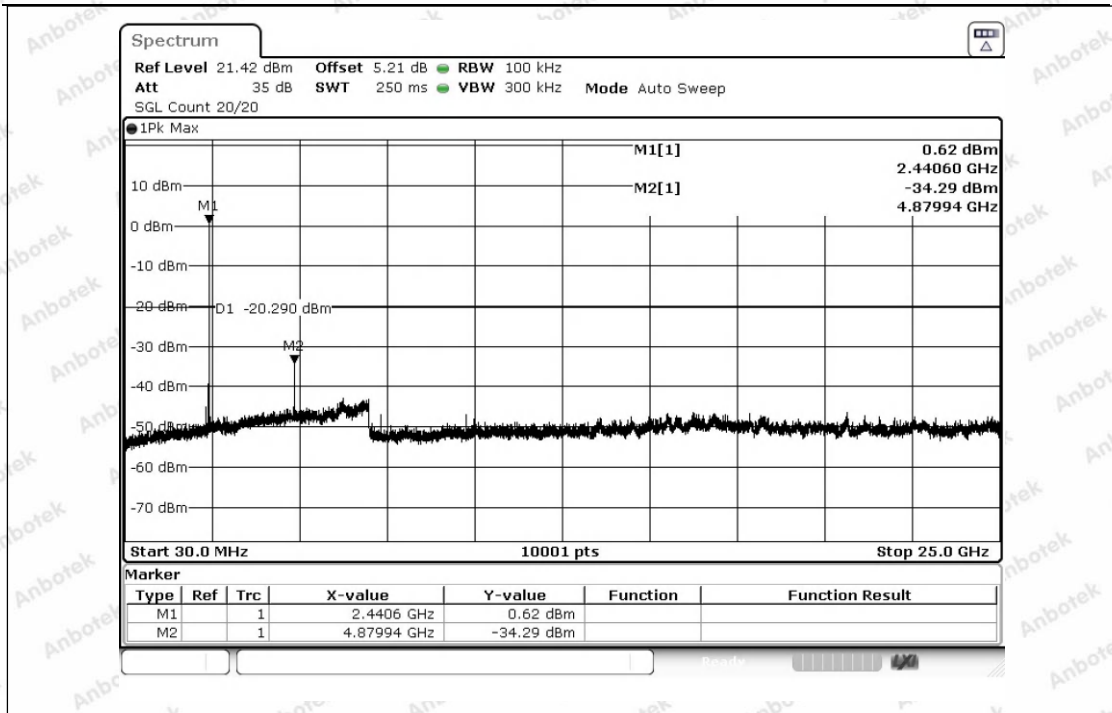


### 1\_Reference\_Level\_NVNT\_ANT1\_1Mbps\_2440

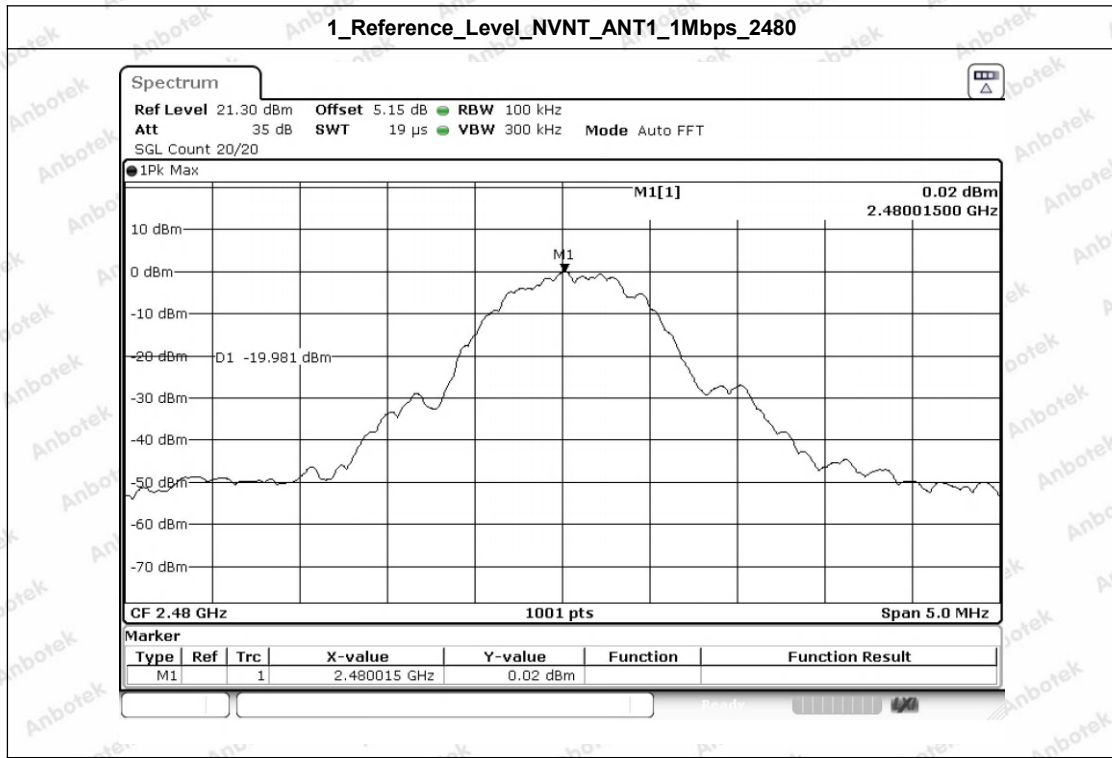


### 2\_Spurious\_Emission\_NVNT\_ANT1\_1Mbps\_2440





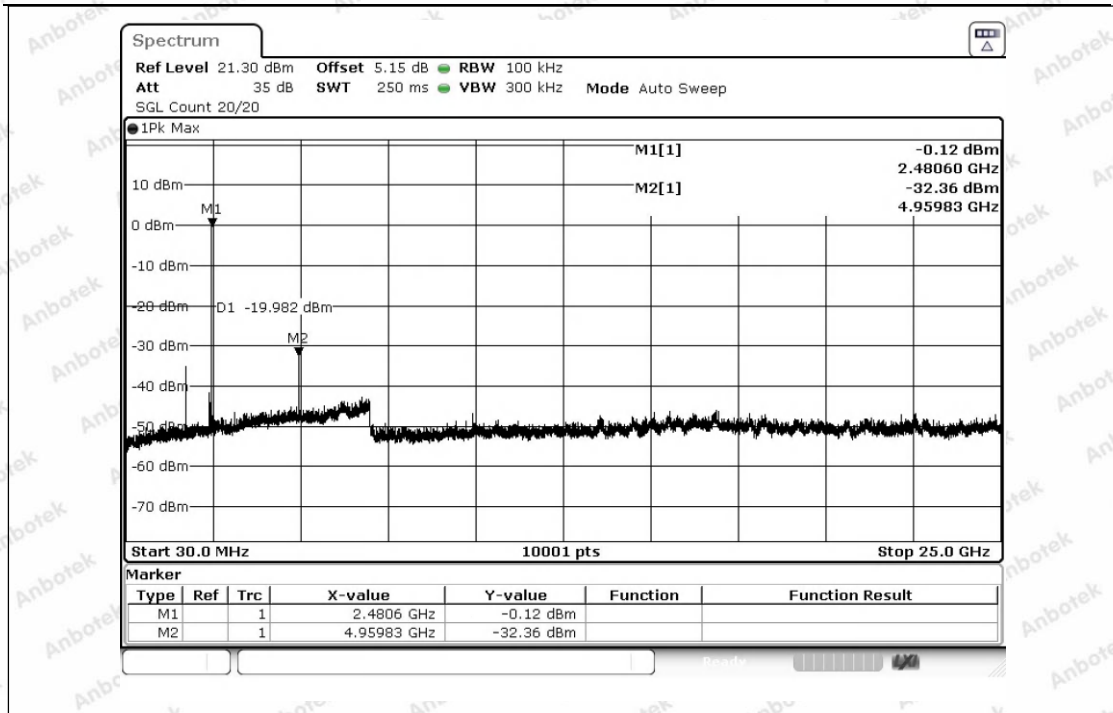
### 1\_Reference\_Level\_NVNT\_ANT1\_1Mbps\_2480



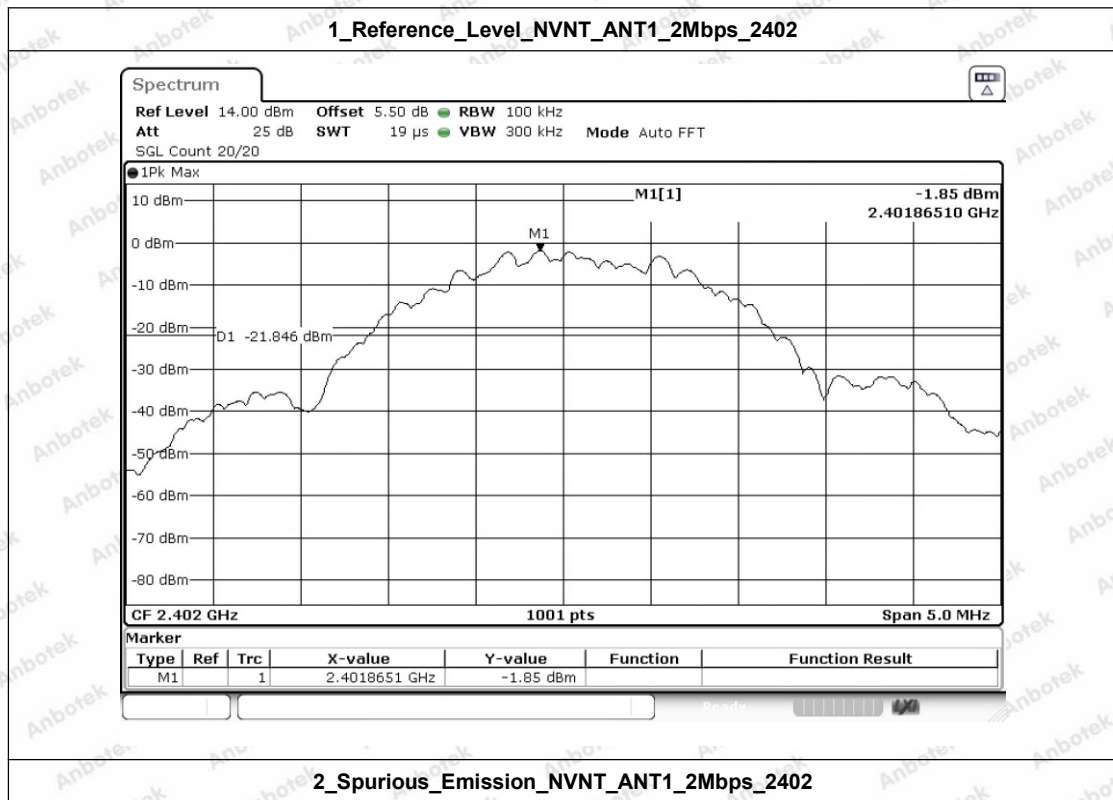
### 2\_Spurious\_Emission\_NVNT\_ANT1\_1Mbps\_2480





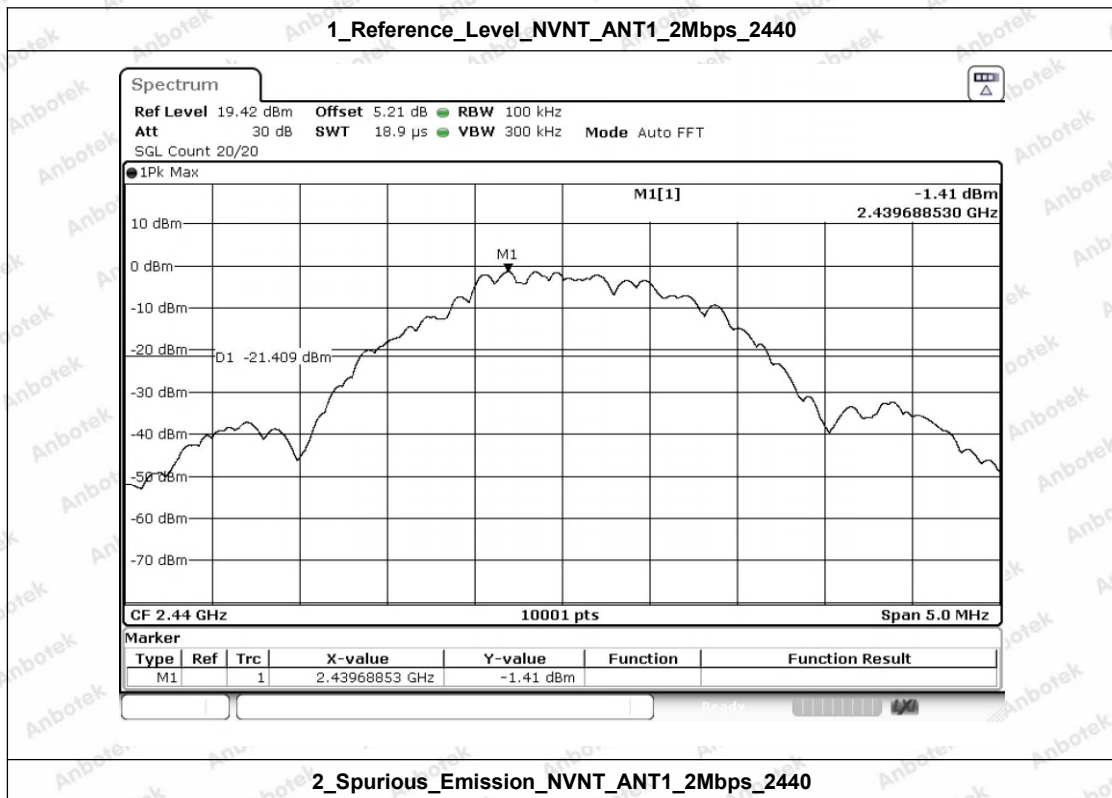
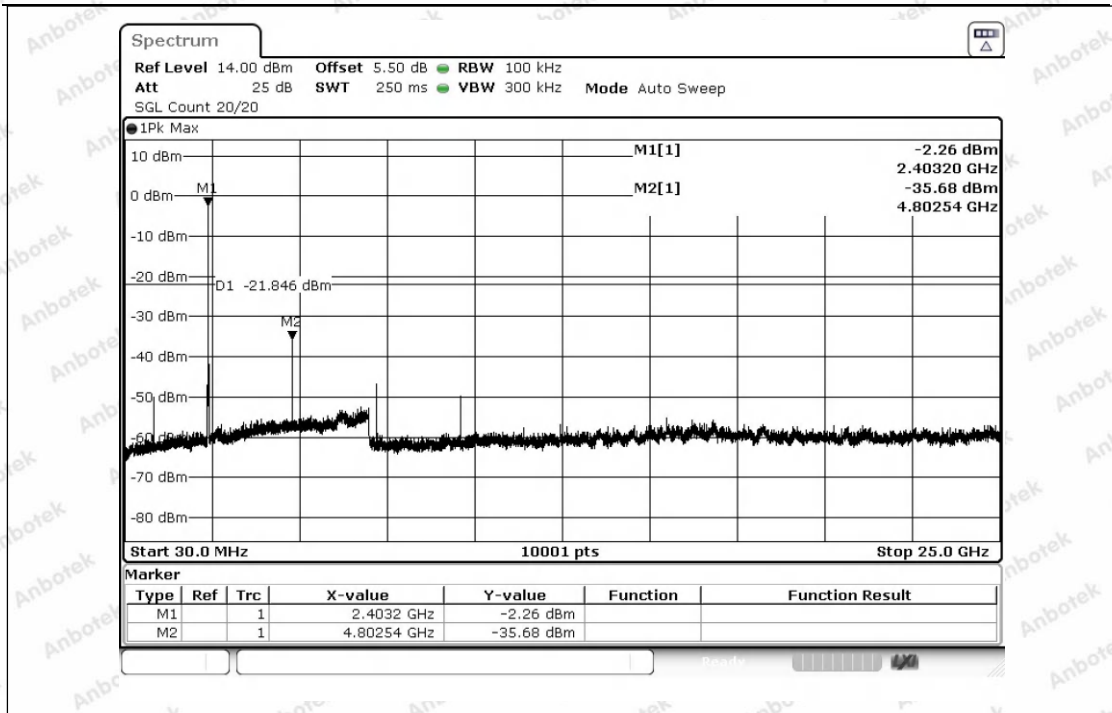


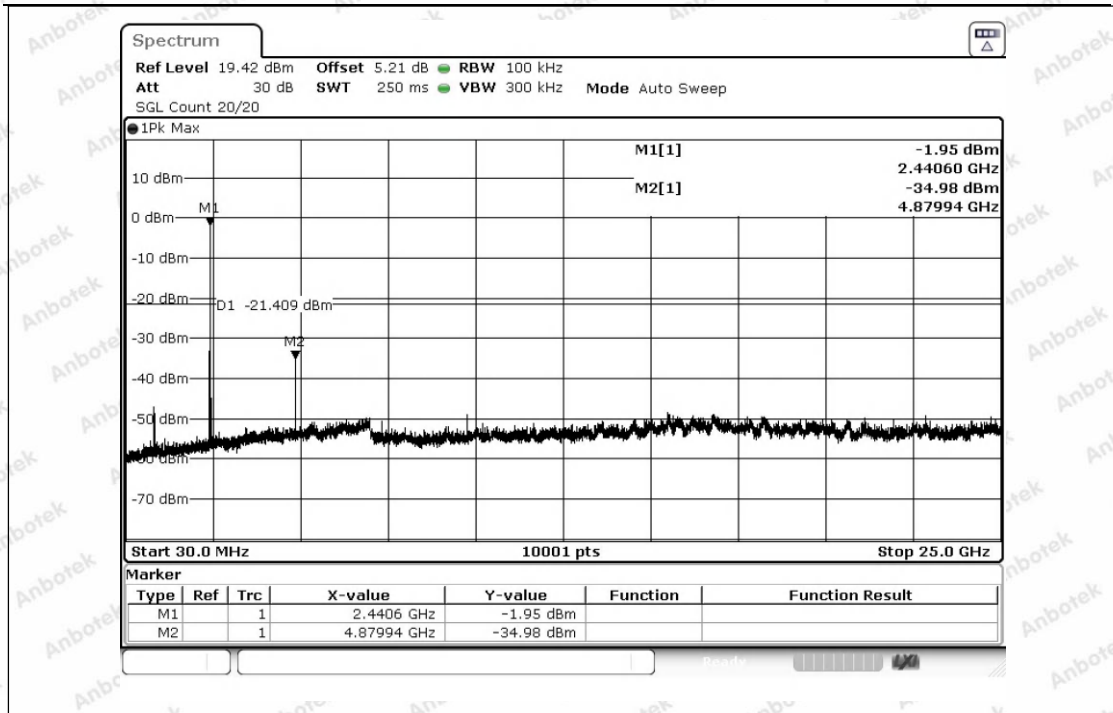
### 1\_Reference\_Level\_NVNT\_ANT1\_2Mbps\_2402



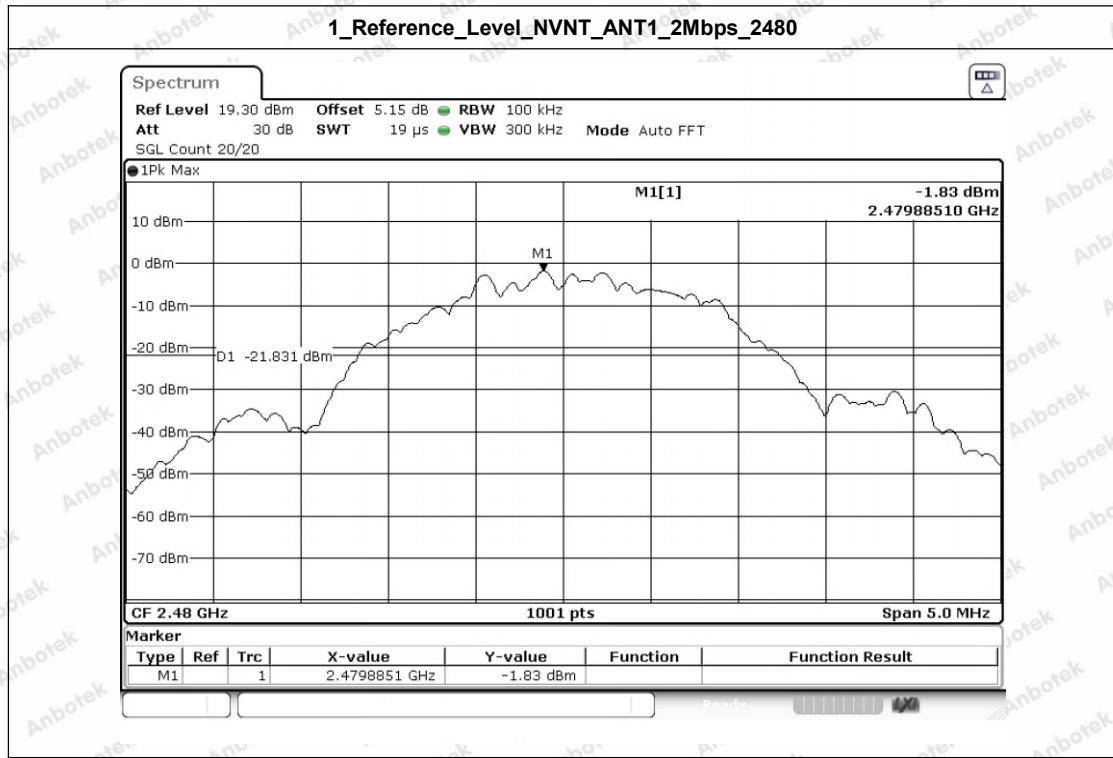
### 2\_Spurious\_Emission\_NVNT\_ANT1\_2Mbps\_2402





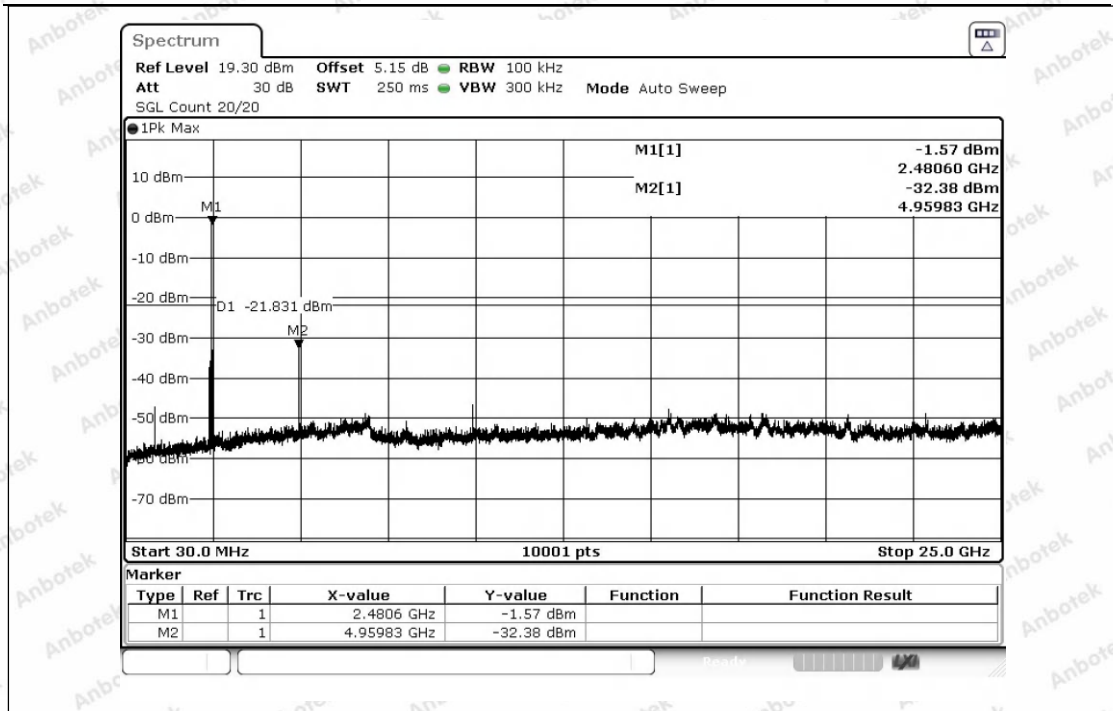


1\_Reference\_Level\_NVNT\_ANT1\_2Mbps\_2480



2\_Spurious\_Emission\_NVNT\_ANT1\_2Mbps\_2480





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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	1.14	2.51	45.42	3.43
BLE_1M	Ant1	2440	2.13	2.51	84.86	0.71
BLE_1M	Ant1	2480	2.13	2.50	85.20	0.70
BLE_2M	Ant1	2402	2.13	2.51	84.86	0.71
BLE_2M	Ant1	2440	2.13	2.51	84.86	0.71
BLE_2M	Ant1	2480	2.13	2.50	85.20	0.70

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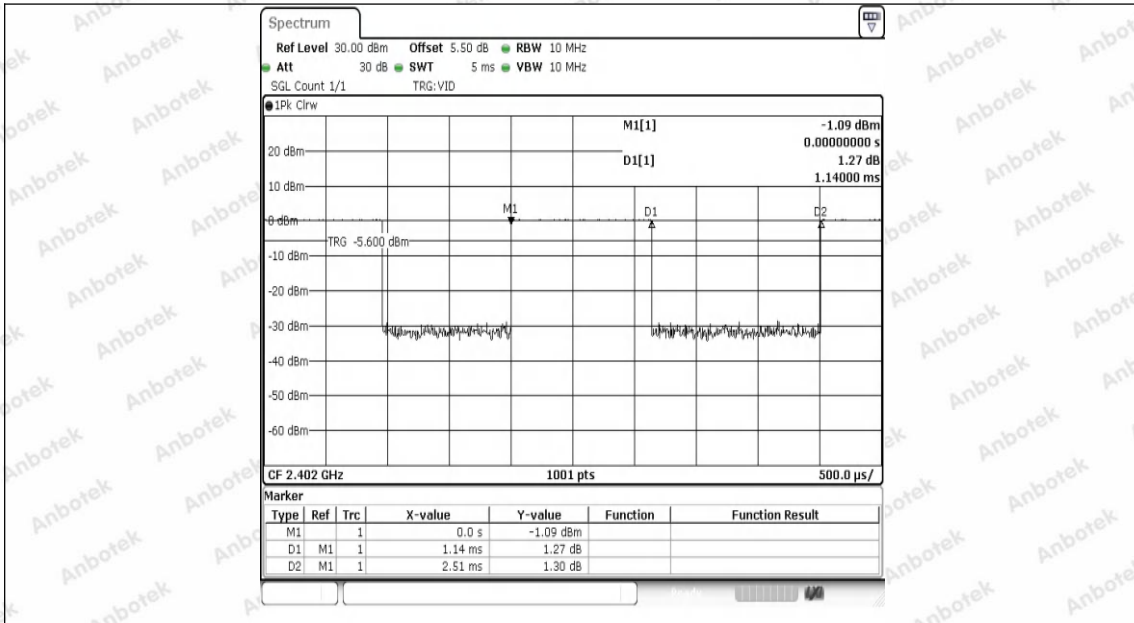
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



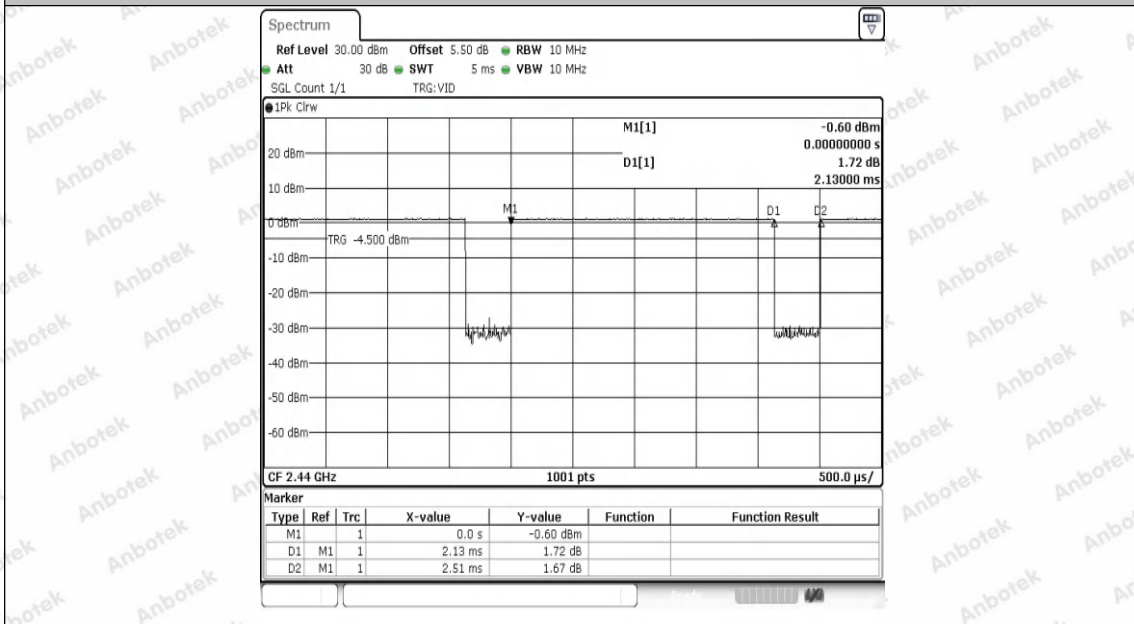
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## Test Graphs

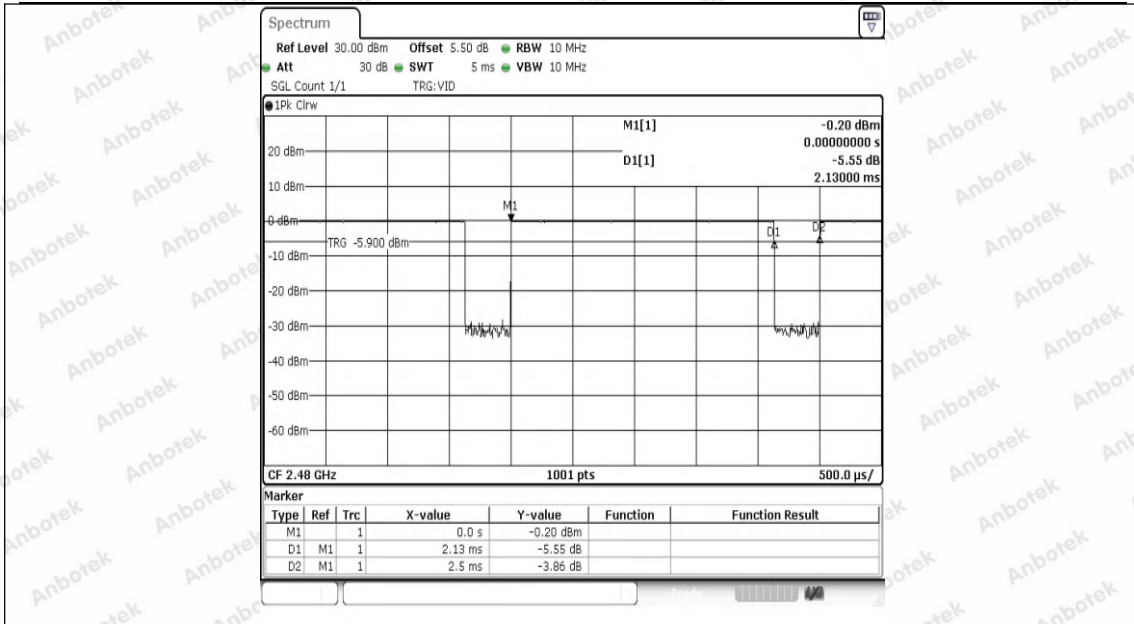


NTNV-BLE\_1M-Ant1-2402

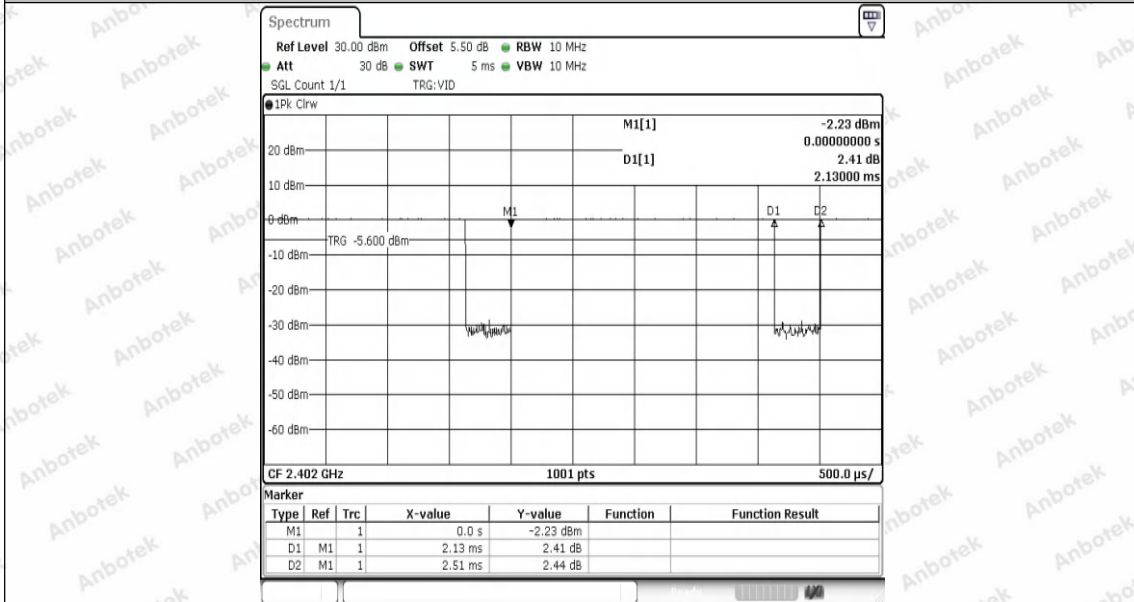


NTNV-BLE\_1M-Ant1-2440



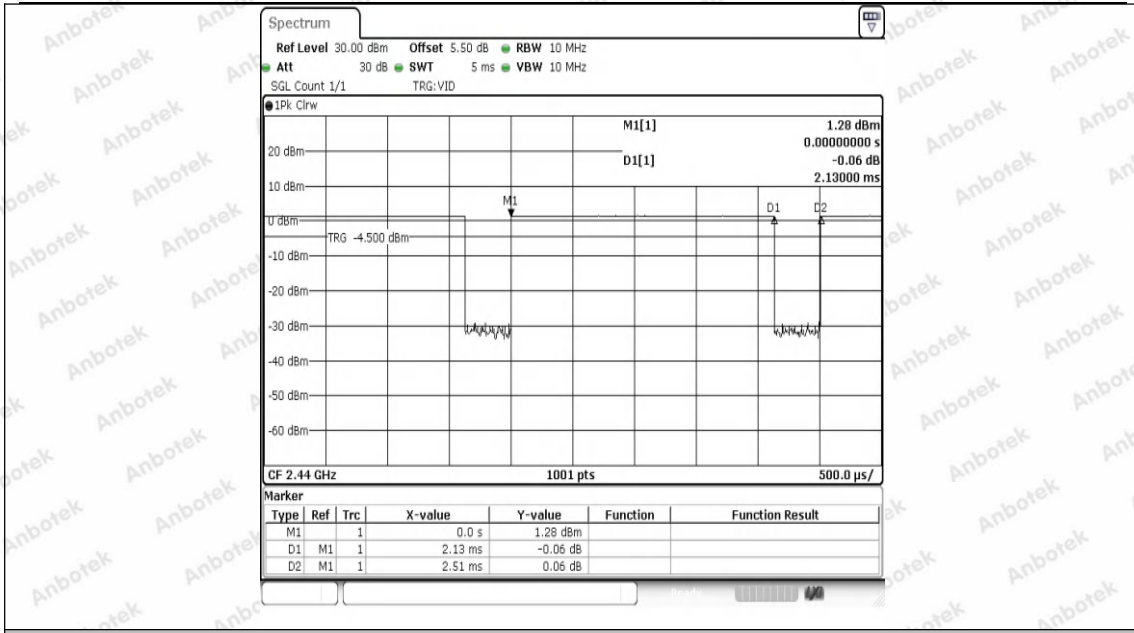


NTNV-BLE\_1M-Ant1-2480

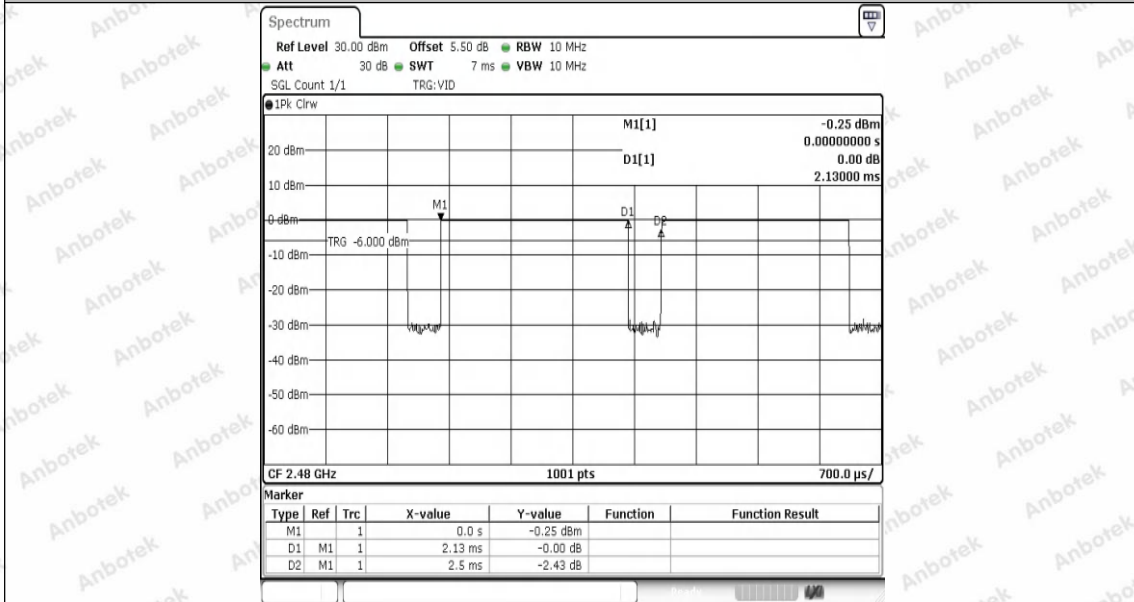


NTNV-BLE\_2M-Ant1-2402





NTNV-BLE\_2M-Ant1-2440



NTNV-BLE\_2M-Ant1-2480

---End---

