

## Appendix Test Data

|                  |                 |                    |            |
|------------------|-----------------|--------------------|------------|
| Report No.:      | 18220WC30232203 | Test Sample No.:   | 1-2-2      |
| Start Test Date: | 2023.11.07      | Finish Test Date:  | 2023.11.08 |
| Test Engineer:   | Hayman Chen     | Auditor:           | Rick Luo   |
| Temperature:     | 26.3℃           | Relative Humidity: | 51%        |
| Pressure:        | 101kPa          |                    |            |

## Appendix A: DTS Bandwidth

## Test Result

| TestMode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|----------|---------|----------------|--------------|----------|----------|------------|---------|
| 2.4G     | Ant1    | 2402           | 0.504        | 2401.668 | 2402.172 | 0.5        | PASS    |
|          |         | 2440           | 0.508        | 2439.668 | 2440.176 | 0.5        | PASS    |
|          |         | 2480           | 0.504        | 2479.672 | 2480.176 | 0.5        | PASS    |



## Test Graphs

2.4G\_Ant1\_2402



2.4G\_Ant1\_2440



2.4G\_Ant1\_2480

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## Appendix B: Occupied Channel Bandwidth

### Test Result

| TestMode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   |
|----------|---------|----------------|-----------|-----------|-----------|
| 2.4G     | Ant1    | 2402           | 1.0285    | 2401.4930 | 2402.5215 |
|          |         | 2440           | 1.0294    | 2439.4948 | 2440.5242 |
|          |         | 2480           | 1.0235    | 2479.4965 | 2480.5200 |



## Test Graphs

2.4G\_Ant1\_2402



2.4G\_Ant1\_2440



2.4G\_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 |
|----------|---------|----------------|---------------------------|----------------------|---------|
| 2.4G     | Ant1    | 2402           | 0.65                      | ≤30                  | PASS    |
|          |         | 2440           | 1.64                      | ≤30                  | PASS    |
|          |         | 2480           | 1.99                      | ≤30                  | PASS    |



## Test Graphs Peak

2.4G\_Ant1\_2402



2.4G\_Ant1\_2440



2.4G\_Ant1\_2480

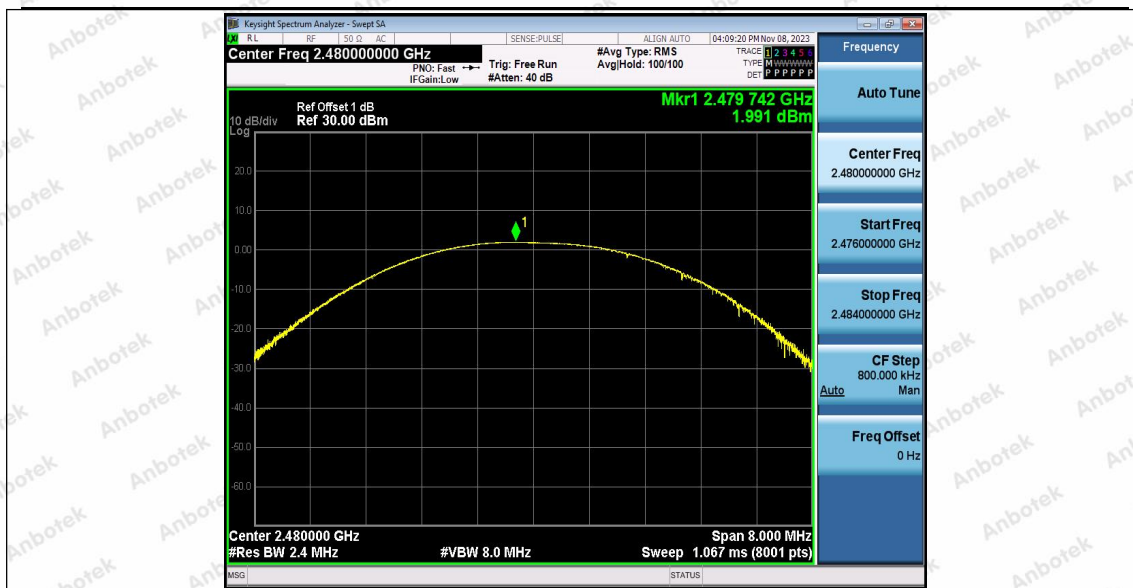
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## Appendix D: Maximum power spectral density

### Test Result

| TestMode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|----------------|------------------|-----------------|---------|
| 2.4G     | Ant1    | 2402           | -17.40           | ≤8.00           | PASS    |
|          |         | 2440           | -16.36           | ≤8.00           | PASS    |
|          |         | 2480           | -15.84           | ≤8.00           | PASS    |



## Test Graphs

2.4G\_Ant1\_2402



2.4G\_Ant1\_2440



2.4G\_Ant1\_2480

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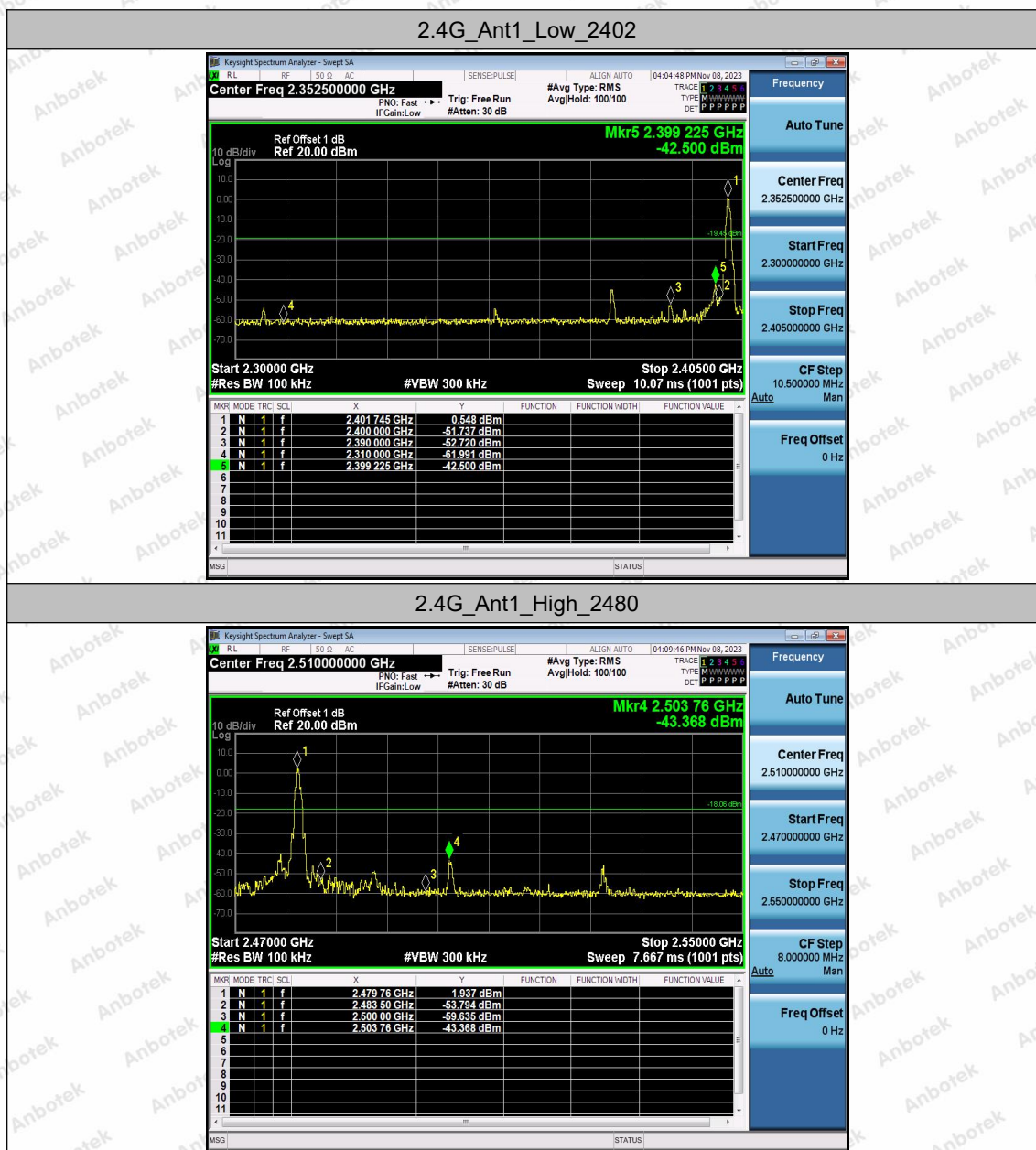


## Appendix E: Band edge measurements

### Test Result

| TestMode | Antenna | ChName | Frequency [MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|-----------------|---------------|-------------|------------|---------|
| 2.4G     | Ant1    | Low    | 2402            | 0.55          | -42.5       | ≤-19.45    | PASS    |
|          |         | High   | 2480            | 1.94          | -43.37      | ≤-18.06    | PASS    |

### Test Graphs



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## Appendix F: Conducted Spurious Emission

### Test Result

| TestMode | Antenna | Frequency<br>[MHz] | FreqRange<br>[MHz] | RefLevel<br>[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------------------|--------------------|-------------------|-------------|------------|---------|
| 2.4G     | Ant1    | 2402               | Reference          | 0.52              | 0.52        | ---        | PASS    |
|          |         |                    | 30~1000            | 0.52              | -40.52      | ≤-19.48    | PASS    |
|          |         |                    | 1000~26500         | 0.52              | -42.10      | ≤-19.48    | PASS    |
|          |         | 2440               | Reference          | 1.46              | 1.46        | ---        | PASS    |
|          |         |                    | 30~1000            | 1.46              | -40.51      | ≤-18.54    | PASS    |
|          |         |                    | 1000~26500         | 1.46              | -40.70      | ≤-18.54    | PASS    |
|          |         | 2480               | Reference          | 1.97              | 1.97        | ---        | PASS    |
|          |         |                    | 30~1000            | 1.97              | -67.86      | ≤-18.03    | PASS    |
|          |         |                    | 1000~26500         | 1.97              | -40.88      | ≤-18.03    | PASS    |

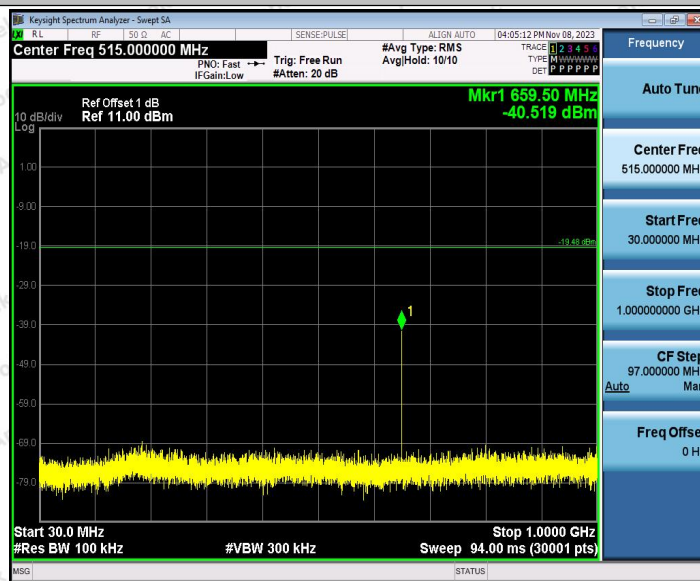


## Test Graphs

2.4G\_Ant1\_2402\_0~Reference



2.4G\_Ant1\_2402\_30~1000



2.4G\_Ant1\_2402\_1000~26500

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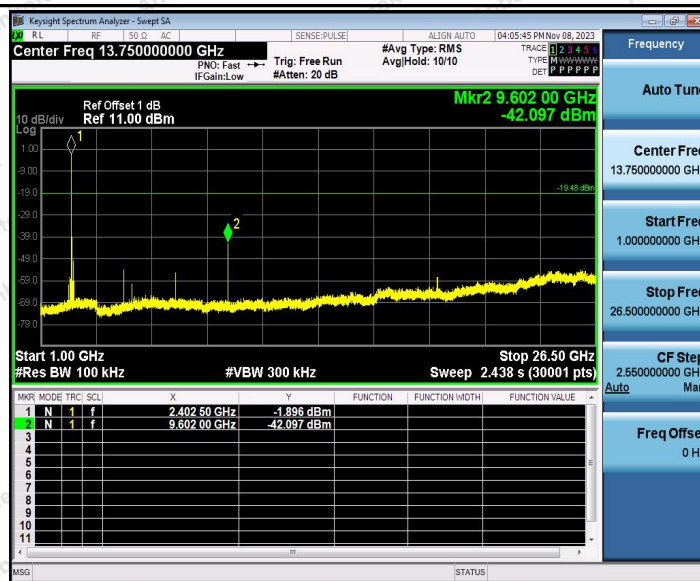


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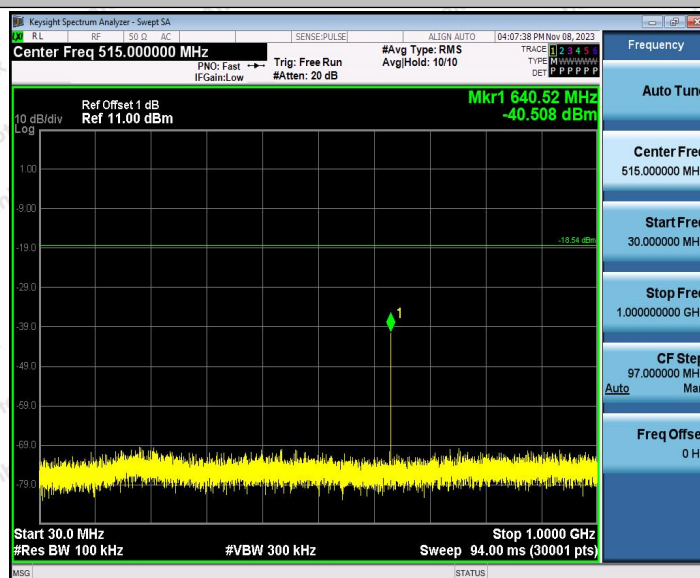




2.4G\_Ant1\_2440\_0~Reference



2.4G\_Ant1\_2440\_30~1000



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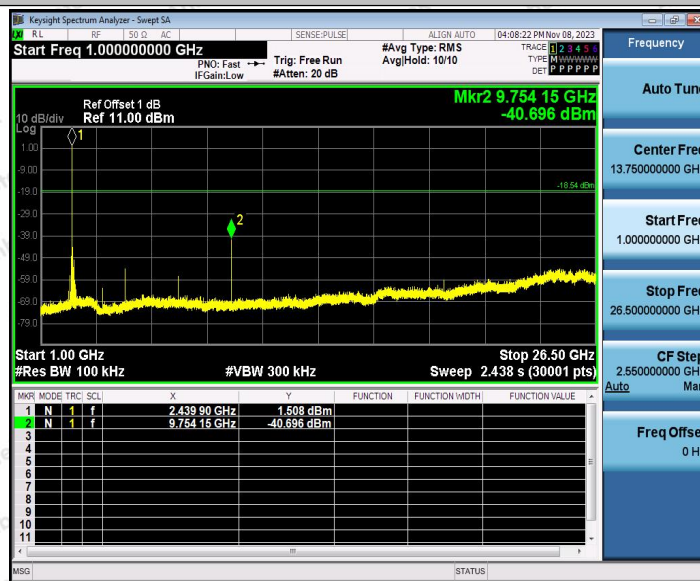
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## 2.4G\_Ant1\_2440\_1000~26500



## 2.4G\_Ant1\_2480\_0~Reference



## 2.4G\_Ant1\_2480\_30~1000

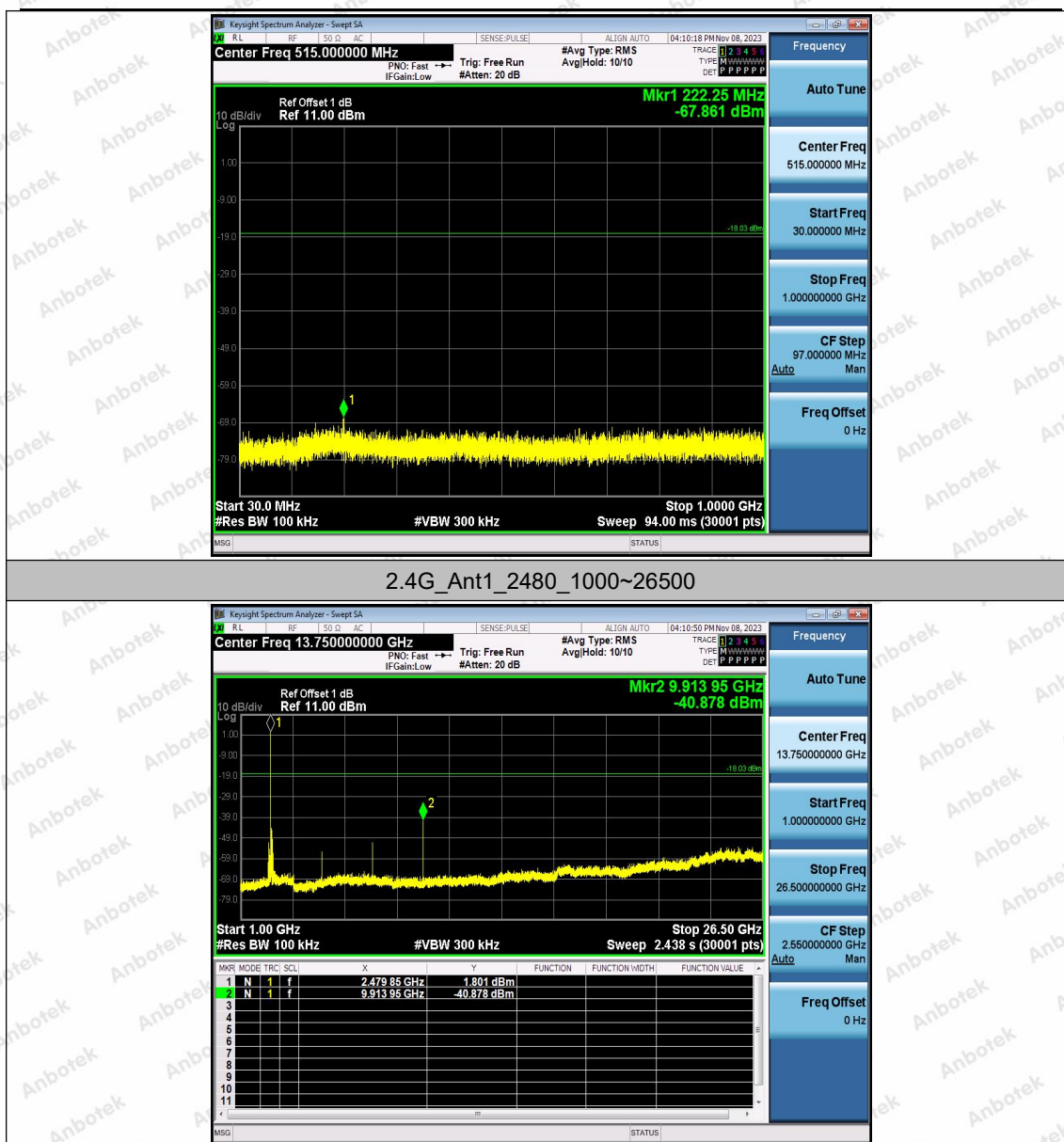
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## Appendix G: Duty Cycle

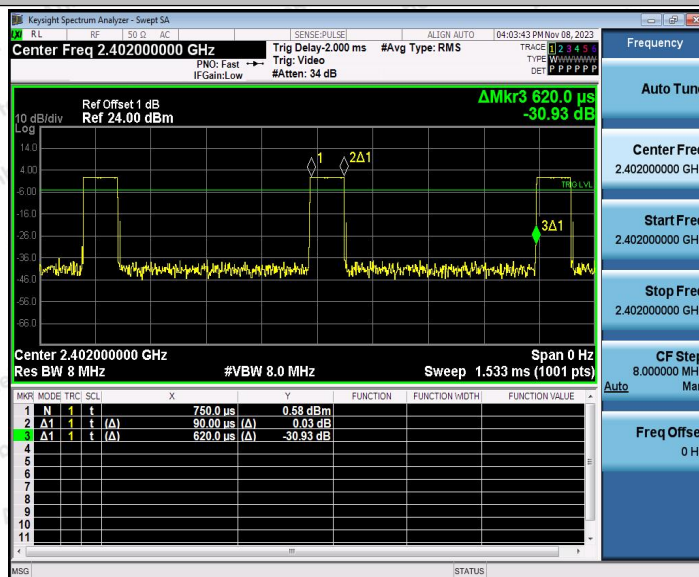
### Test Result

| TestMode | Antenna | Frequency[MHz] | ON Time<br>[ms] | Period<br>[ms] | Duty Cycle<br>[%] | Duty Cycle<br>Factor[dB] |
|----------|---------|----------------|-----------------|----------------|-------------------|--------------------------|
| 2.4G     | Ant1    | 2402           | 0.09            | 0.62           | 14.52             | 8.38                     |
|          |         | 2440           | 0.10            | 0.63           | 15.87             | 7.99                     |
|          |         | 2480           | 0.09            | 0.62           | 14.52             | 8.38                     |

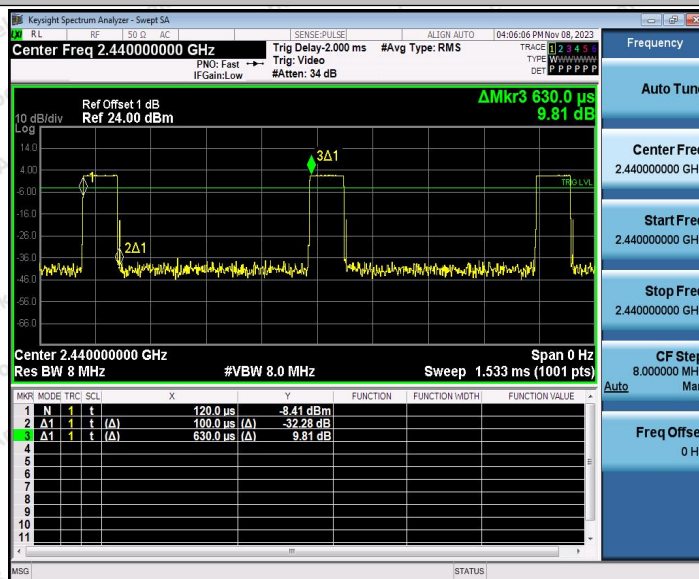


## Test Graphs

2.4G\_Ant1\_2402



2.4G\_Ant1\_2440



2.4G\_Ant1\_2480

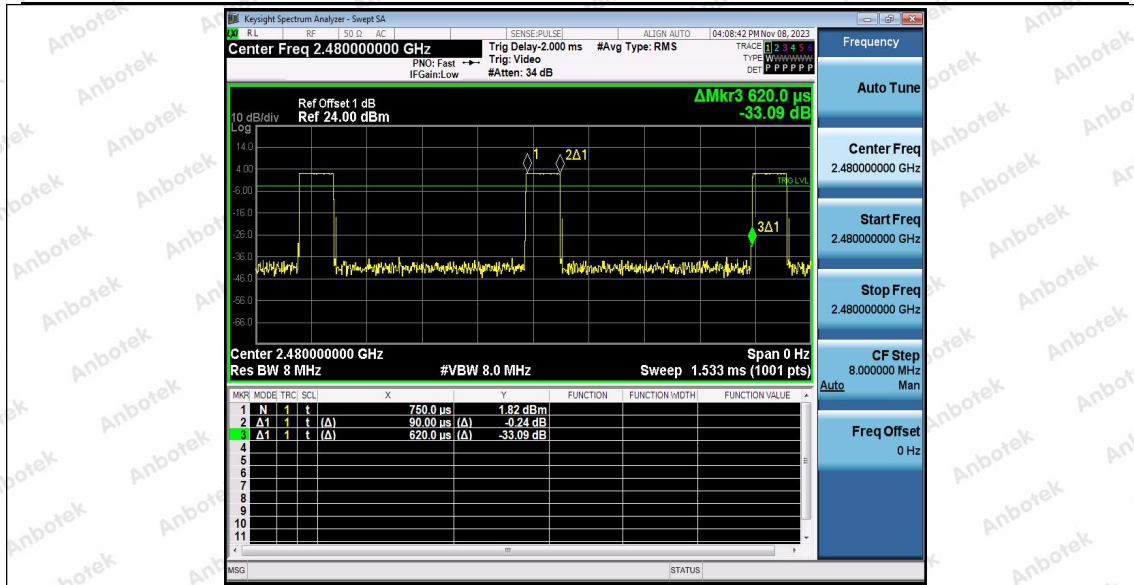
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