

Appendix Test Data

|                  |                  |                    |             |
|------------------|------------------|--------------------|-------------|
| Report No.:      | 1821C40001112503 | Test Sample No.:   | 1-2-2       |
| Start Test Date: | 2024.08.26       | Finish Test Date:  | 2024.09.10  |
| Test Engineer:   | Joker Wang       | Auditor:           | Justin Feng |
| Temperature:     | 22.9℃            | Relative Humidity: | 53%         |
| Pressure:        | 101kPa           |                    |             |

Appendix A: 6dB Bandwidth

Test Result

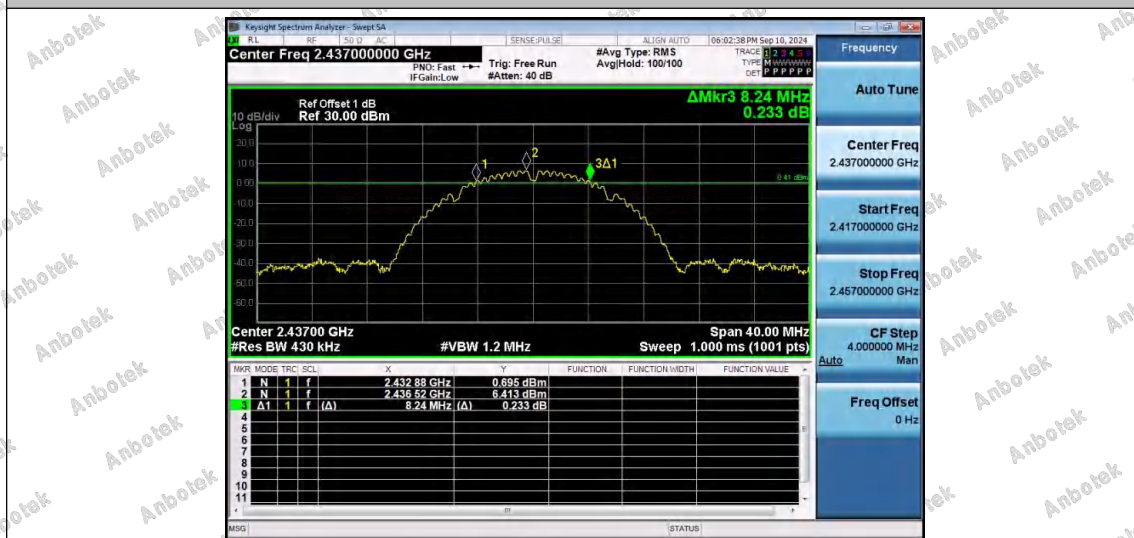
| TestMode  | Antenna | Frequency[MHz] | 6dB BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412           | 8.200        | 2407.960 | 2416.160 | 0.5        | PASS    |
| 11B       | Ant1    | 2437           | 8.240        | 2432.880 | 2441.120 | 0.5        | PASS    |
| 11B       | Ant1    | 2462           | 8.240        | 2457.880 | 2466.120 | 0.5        | PASS    |
| 11G       | Ant1    | 2412           | 15.480       | 2404.240 | 2419.720 | 0.5        | PASS    |
| 11G       | Ant1    | 2437           | 15.760       | 2429.040 | 2444.800 | 0.5        | PASS    |
| 11G       | Ant1    | 2462           | 15.920       | 2454.000 | 2469.920 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 2412           | 17.120       | 2403.480 | 2420.600 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 2437           | 17.240       | 2428.480 | 2445.720 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 2462           | 17.360       | 2453.280 | 2470.640 | 0.5        | PASS    |
| 11N40SISO | Ant1    | 2422           | 35.680       | 2404.320 | 2440.000 | 0.5        | PASS    |
| 11N40SISO | Ant1    | 2437           | 35.920       | 2419.080 | 2455.000 | 0.5        | PASS    |
| 11N40SISO | Ant1    | 2452           | 35.440       | 2434.240 | 2469.680 | 0.5        | PASS    |



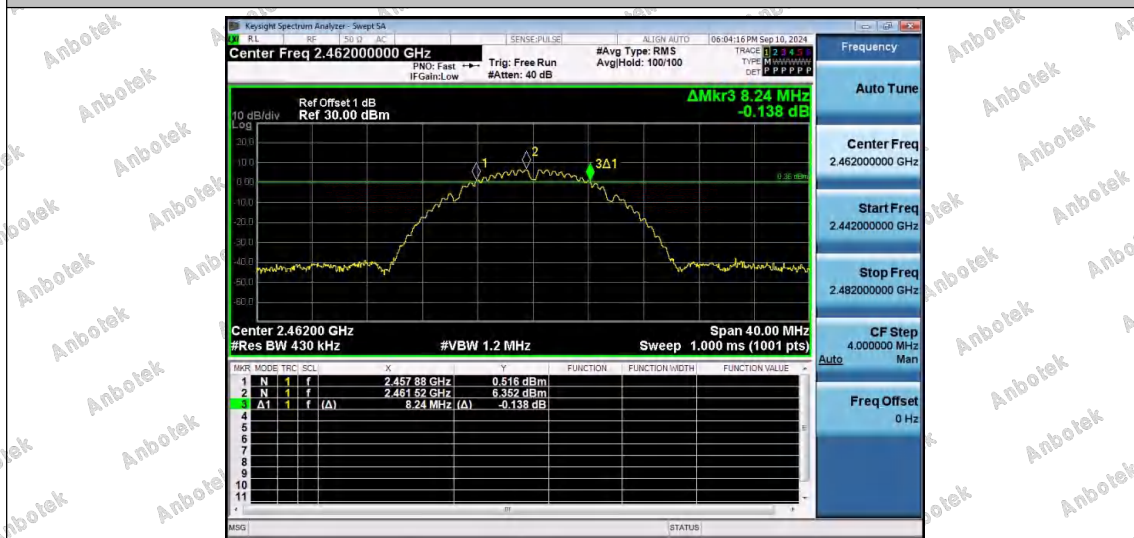
## Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

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11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

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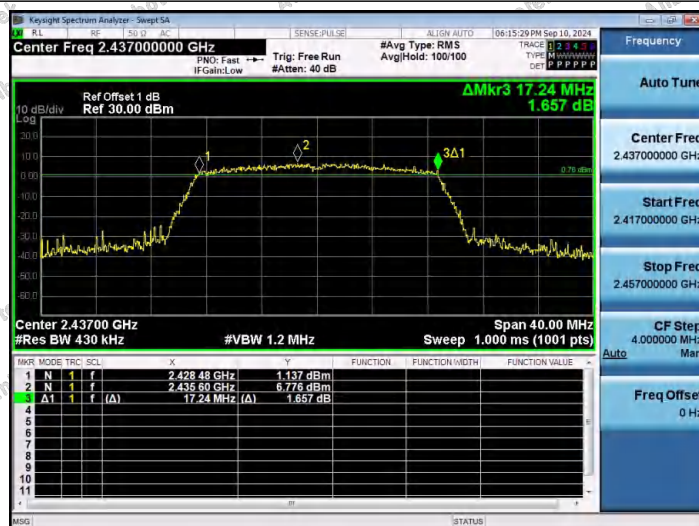
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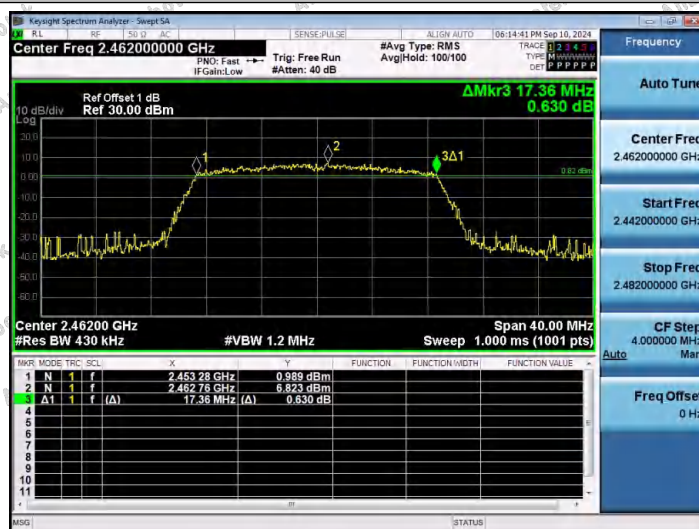




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

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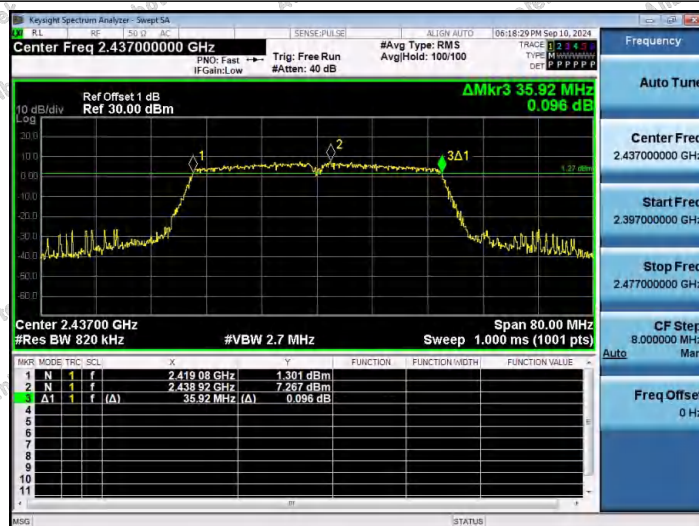


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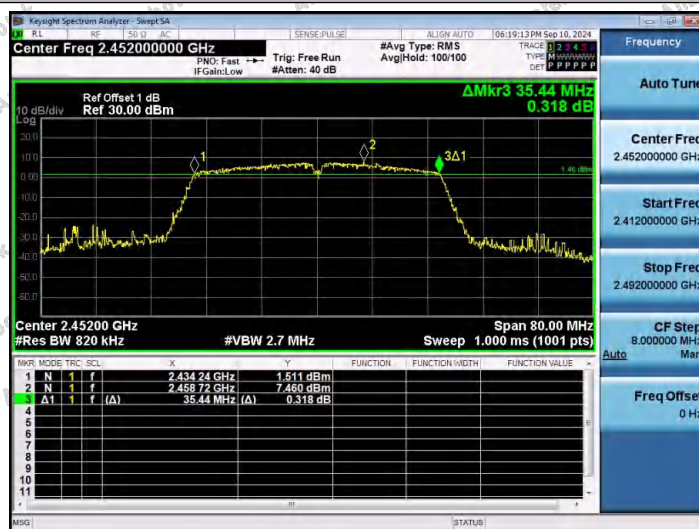




11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-PASS

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## Appendix B: 99% Occupied Bandwidth

### Test Result

| TestMode  | Antenna | Channel<br>Frequency[MHz] | OCB<br>[MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|---------------------------|--------------|-----------|-----------|------------|---------|
| 11B       | Ant1    | 2412                      | 12.500       | 2405.8827 | 2418.3827 | ---        | ---     |
| 11B       | Ant1    | 2437                      | 12.897       | 2430.5566 | 2443.4536 | ---        | ---     |
| 11B       | Ant1    | 2462                      | 12.652       | 2455.6227 | 2468.2747 | ---        | ---     |
| 11G       | Ant1    | 2412                      | 16.627       | 2403.7147 | 2420.3417 | ---        | ---     |
| 11G       | Ant1    | 2437                      | 16.739       | 2428.6783 | 2445.4173 | ---        | ---     |
| 11G       | Ant1    | 2462                      | 16.711       | 2453.5840 | 2470.2950 | ---        | ---     |
| 11N20SISO | Ant1    | 2412                      | 17.634       | 2403.2147 | 2420.8487 | ---        | ---     |
| 11N20SISO | Ant1    | 2437                      | 17.747       | 2428.1445 | 2445.8915 | ---        | ---     |
| 11N20SISO | Ant1    | 2462                      | 17.692       | 2453.1533 | 2470.8453 | ---        | ---     |
| 11N40SISO | Ant1    | 2422                      | 35.937       | 2404.1837 | 2440.1207 | ---        | ---     |
| 11N40SISO | Ant1    | 2437                      | 36.316       | 2418.9048 | 2455.2208 | ---        | ---     |
| 11N40SISO | Ant1    | 2452                      | 35.912       | 2434.0472 | 2469.9592 | ---        | ---     |



## Test Graphs



11B-Ant1-2412



11B-Ant1-2437



11B-Ant1-2462

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11G-Ant1-2412



11G-Ant1-2437



11G-Ant1-2462

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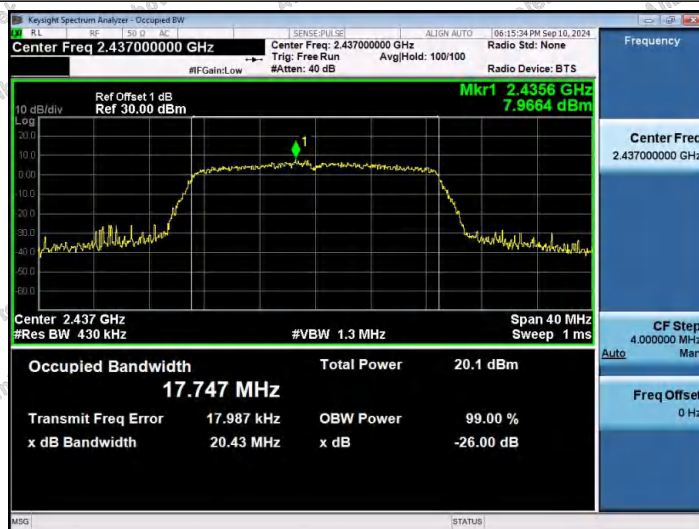


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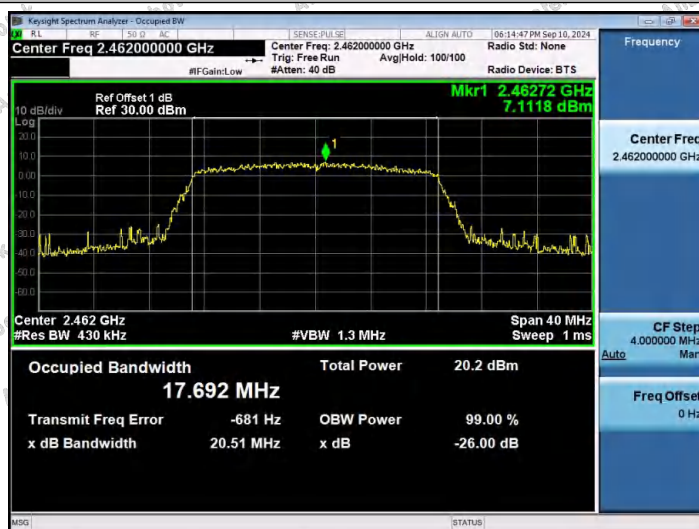




11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



11N20SISO-Ant1-2462

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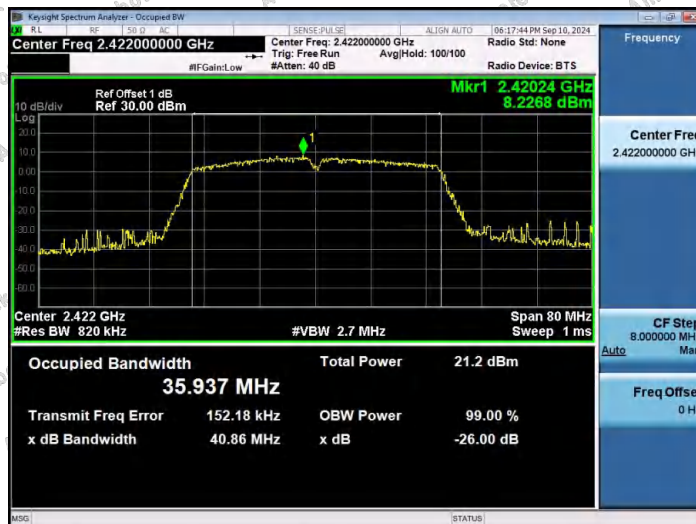
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11N40SISO-Ant1-2422



11N40SISO-Ant1-2437



11N40SISO-Ant1-2452

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## Appendix C: Maximum conducted output power

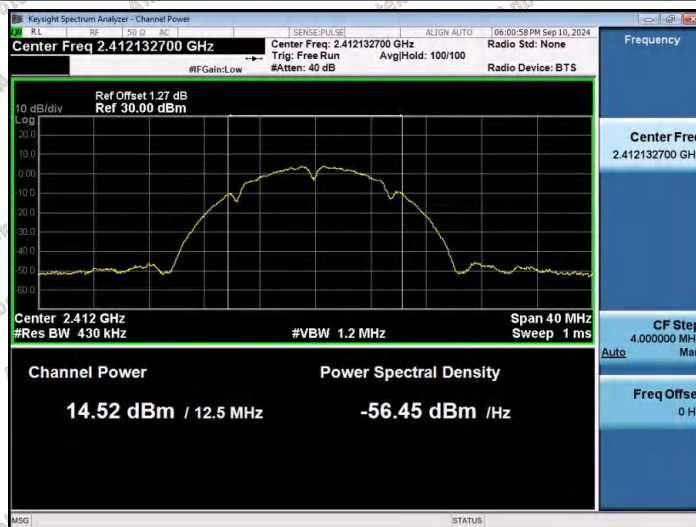
### Test Result Average

| Test Mode     | Antenna | Frequency [MHz] | Set Power | Average power [dBm] | Duty Cycle [%] | DC Factor [dB] | Result [dBm] | Limit [dBm] | Verdict |
|---------------|---------|-----------------|-----------|---------------------|----------------|----------------|--------------|-------------|---------|
| 11B           | Ant1    | 2412            | ---       | 14.25               | 93.93          | 0.27           | 14.52        | ≤30.0<br>0  | PASS    |
| 11B           | Ant1    | 2437            | ---       | 13.93               | 93.81          | 0.28           | 14.21        | ≤30.0<br>0  | PASS    |
| 11B           | Ant1    | 2462            | ---       | 13.80               | 93.67          | 0.28           | 14.08        | ≤30.0<br>0  | PASS    |
| 11G           | Ant1    | 2412            | ---       | 13.08               | 71.21          | 1.47           | 14.55        | ≤30.0<br>0  | PASS    |
| 11G           | Ant1    | 2437            | ---       | 11.74               | 71.74          | 1.44           | 13.18        | ≤30.0<br>0  | PASS    |
| 11G           | Ant1    | 2462            | ---       | 12.22               | 71.74          | 1.44           | 13.66        | ≤30.0<br>0  | PASS    |
| 11N20SI<br>SO | Ant1    | 2412            | ---       | 13.49               | 69.68          | 1.57           | 15.06        | ≤30.0<br>0  | PASS    |
| 11N20SI<br>SO | Ant1    | 2437            | ---       | 12.62               | 70.31          | 1.53           | 14.15        | ≤30.0<br>0  | PASS    |
| 11N20SI<br>SO | Ant1    | 2462            | ---       | 13.09               | 70.66          | 1.51           | 14.60        | ≤30.0<br>0  | PASS    |
| 11N40SI<br>SO | Ant1    | 2422            | ---       | 11.91               | 54.90          | 2.60           | 14.51        | ≤30.0<br>0  | PASS    |
| 11N40SI<br>SO | Ant1    | 2437            | ---       | 11.81               | 53.81          | 2.69           | 14.50        | ≤30.0<br>0  | PASS    |
| 11N40SI<br>SO | Ant1    | 2452            | ---       | 11.72               | 56.20          | 2.50           | 14.22        | ≤30.0<br>0  | PASS    |

Note: The Duty Cycle Factor( $10 \cdot \log(1/D)$ ) and cable loss are compensated in the graph.



## Test Graphs Average



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

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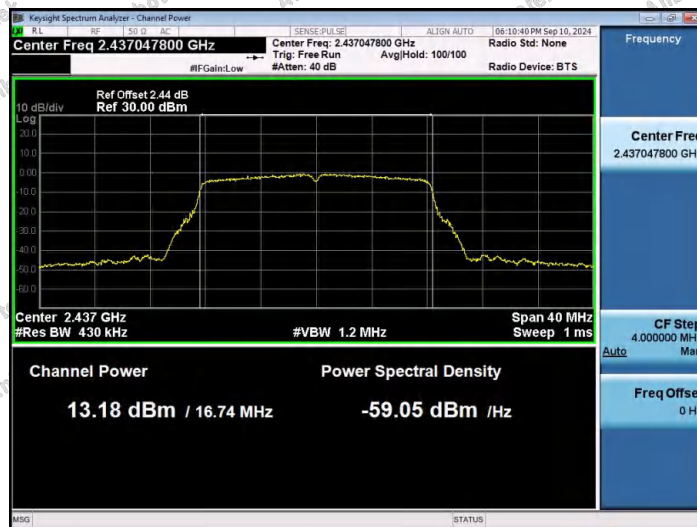


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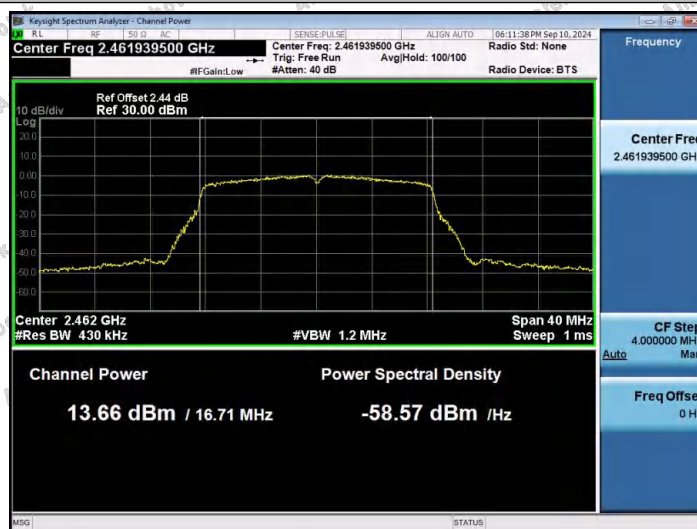




11G-Ant1-2412-PASS

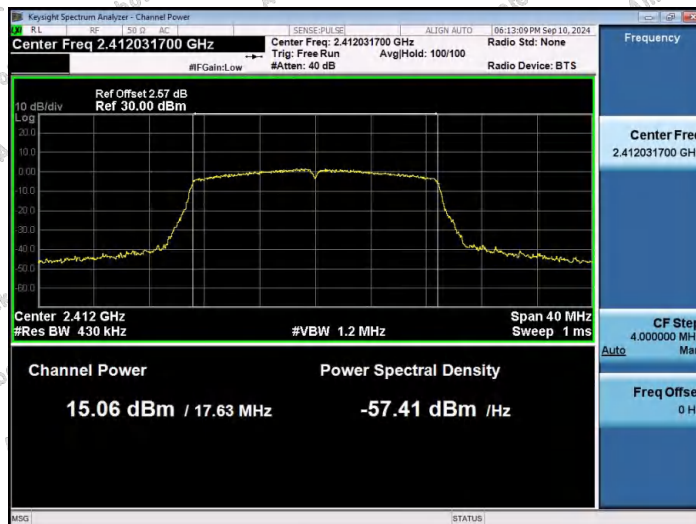


11G-Ant1-2437-PASS

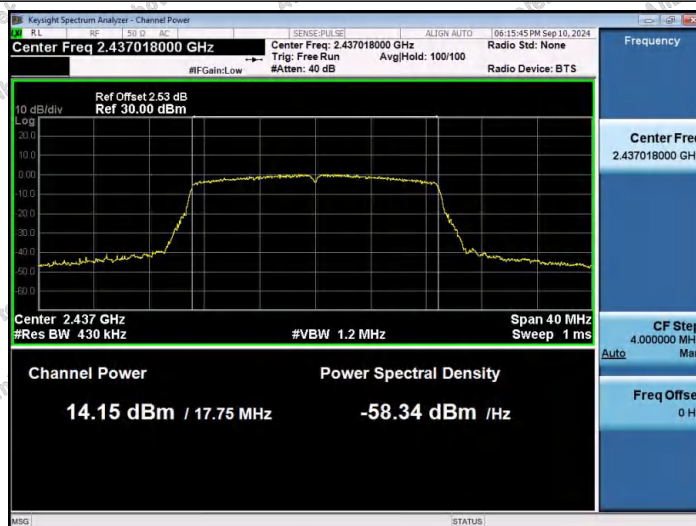


11G-Ant1-2462-PASS

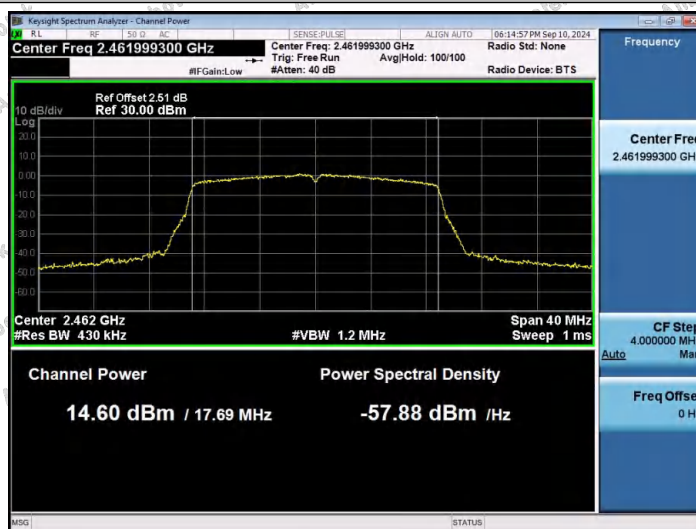




11N20SISO-Ant1-2412-PASS

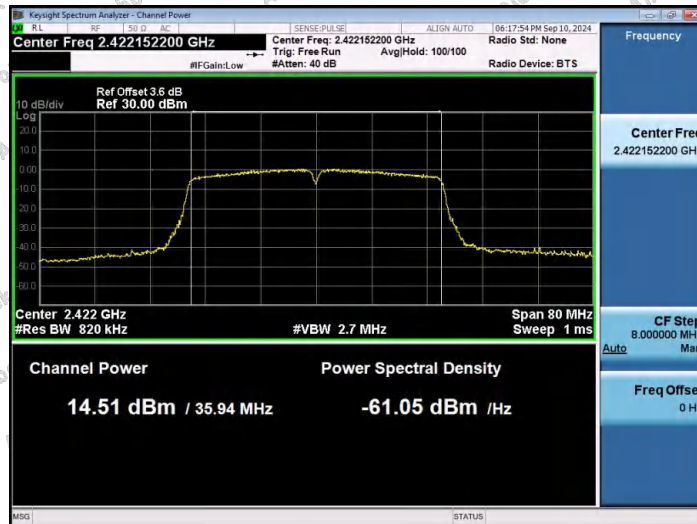


11N20SISO-Ant1-2437-PASS

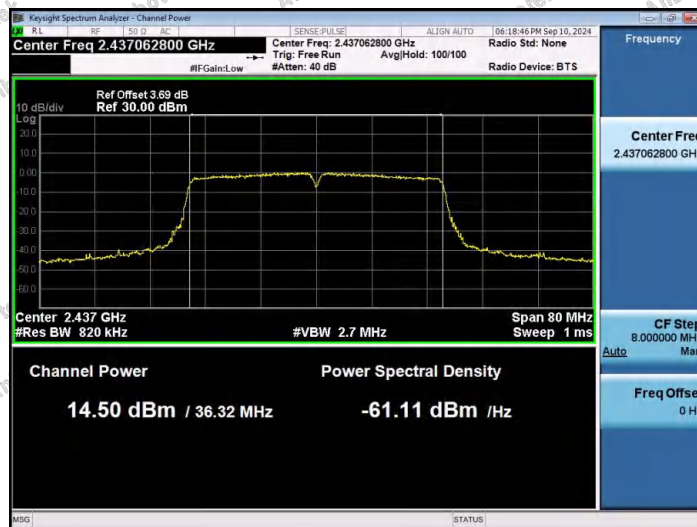


11N20SISO-Ant1-2462-PASS

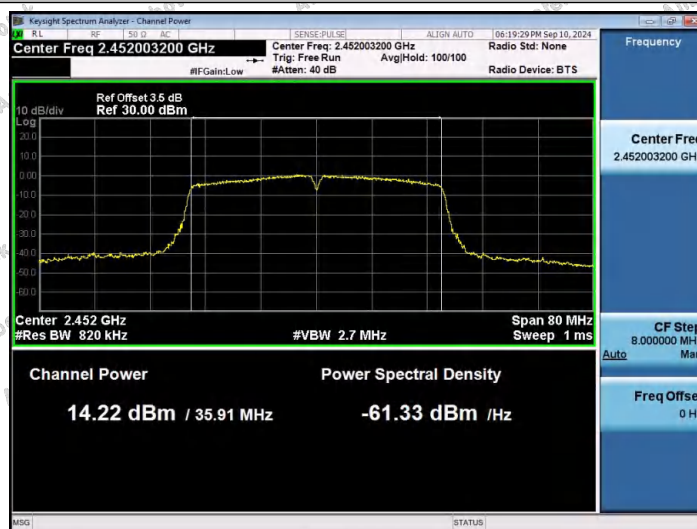




11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-PASS



## Appendix D: Maximum power spectral density

### Test Result

| TestMode      | Antenna | Frequency [MHz] | Result[dBm/30kHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|---------------|---------|-----------------|-------------------|------------------|-----------------|---------|
| 11B           | Ant1    | 2412            | -9.28             | -19.28           | ≤8.00           | PASS    |
| 11B           | Ant1    | 2437            | -9.78             | -19.78           | ≤8.00           | PASS    |
| 11B           | Ant1    | 2462            | -9.98             | -19.98           | ≤8.00           | PASS    |
| 11G           | Ant1    | 2412            | -13.32            | -23.32           | ≤8.00           | PASS    |
| 11G           | Ant1    | 2437            | -13.84            | -23.84           | ≤8.00           | PASS    |
| 11G           | Ant1    | 2462            | -13.98            | -23.98           | ≤8.00           | PASS    |
| 11N20SIS<br>O | Ant1    | 2412            | -13.87            | -23.87           | ≤8.00           | PASS    |
| 11N20SIS<br>O | Ant1    | 2437            | -14.34            | -24.34           | ≤8.00           | PASS    |
| 11N20SIS<br>O | Ant1    | 2462            | -14.43            | -24.43           | ≤8.00           | PASS    |
| 11N40SIS<br>O | Ant1    | 2422            | -16.42            | -26.42           | ≤8.00           | PASS    |
| 11N40SIS<br>O | Ant1    | 2437            | -16.32            | -26.32           | ≤8.00           | PASS    |
| 11N40SIS<br>O | Ant1    | 2452            | -16.32            | -26.32           | ≤8.00           | PASS    |

Note:

1. The Duty Cycle Factor( $10 \cdot \log(1/D)$ ) and cable loss are compensated in the graph.
2.  $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 \cdot \log(30/3))$



## Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

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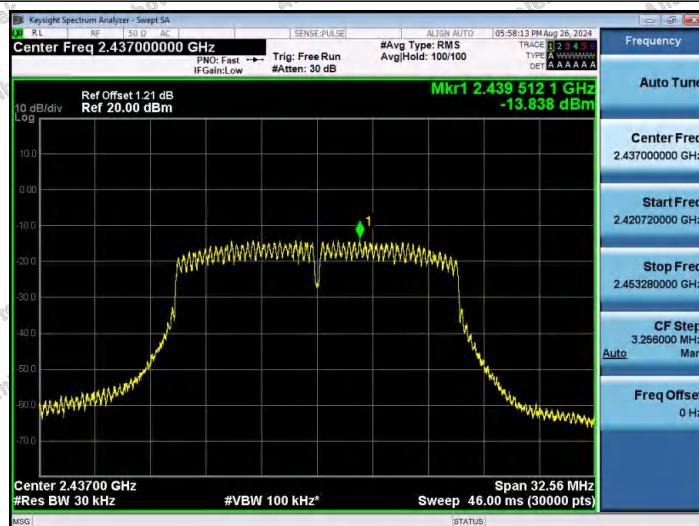
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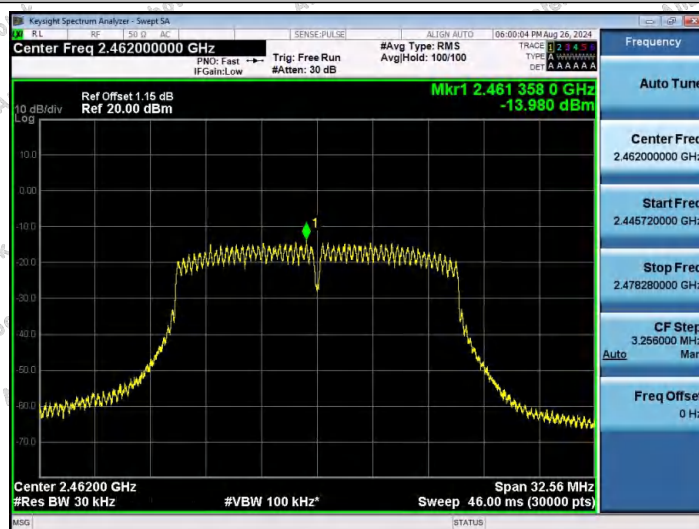




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS

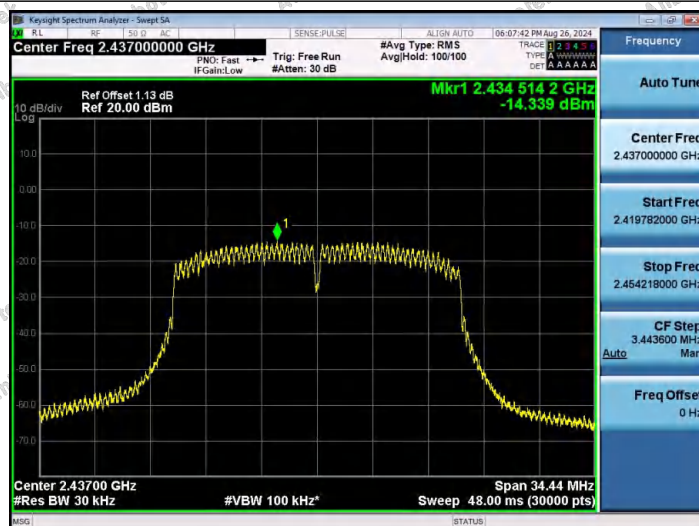


11G-Ant1-2462-PASS

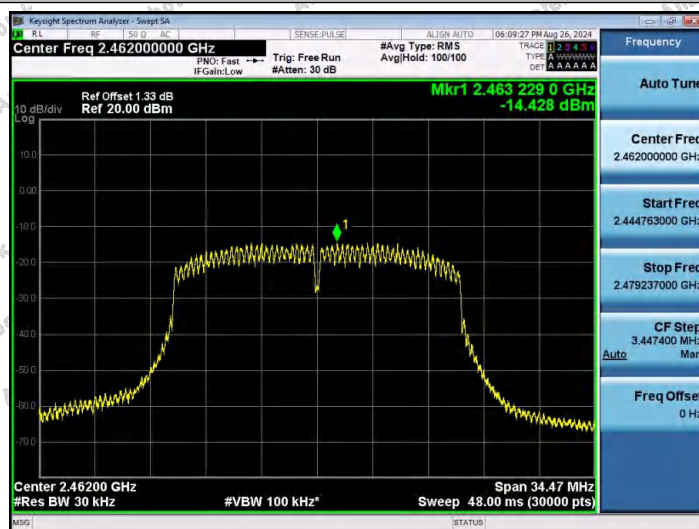




11N20SISO-Ant1-2412-PASS

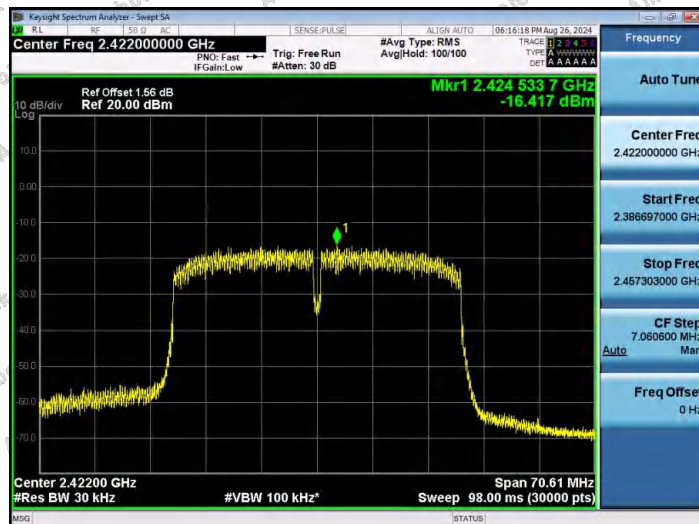


11N20SISO-Ant1-2437-PASS

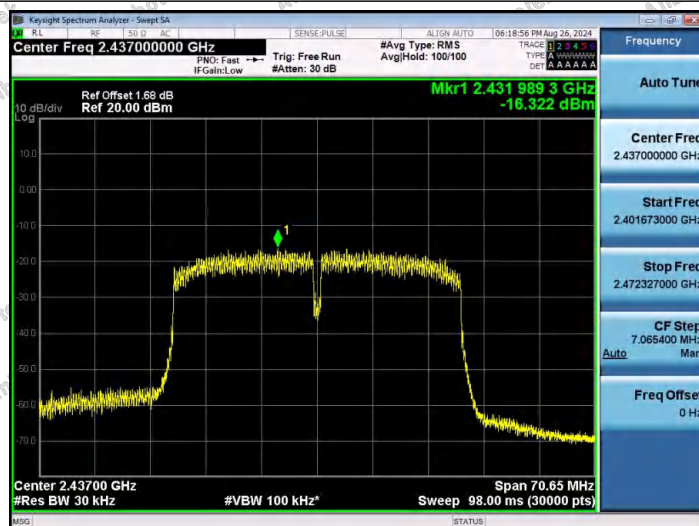


11N20SISO-Ant1-2462-PASS

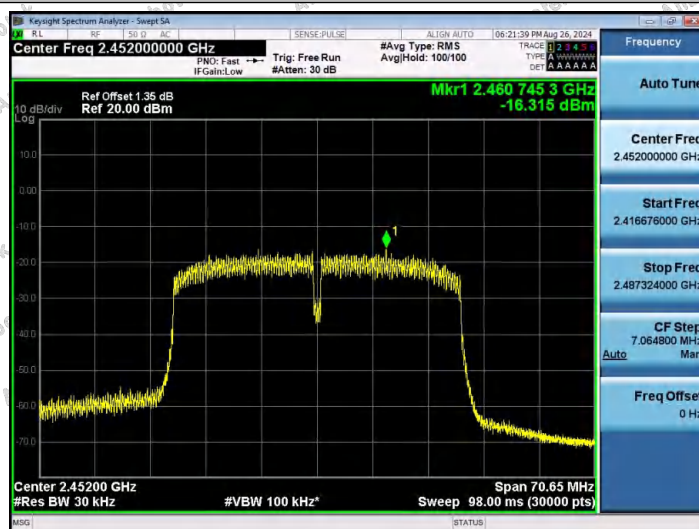




11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-PASS



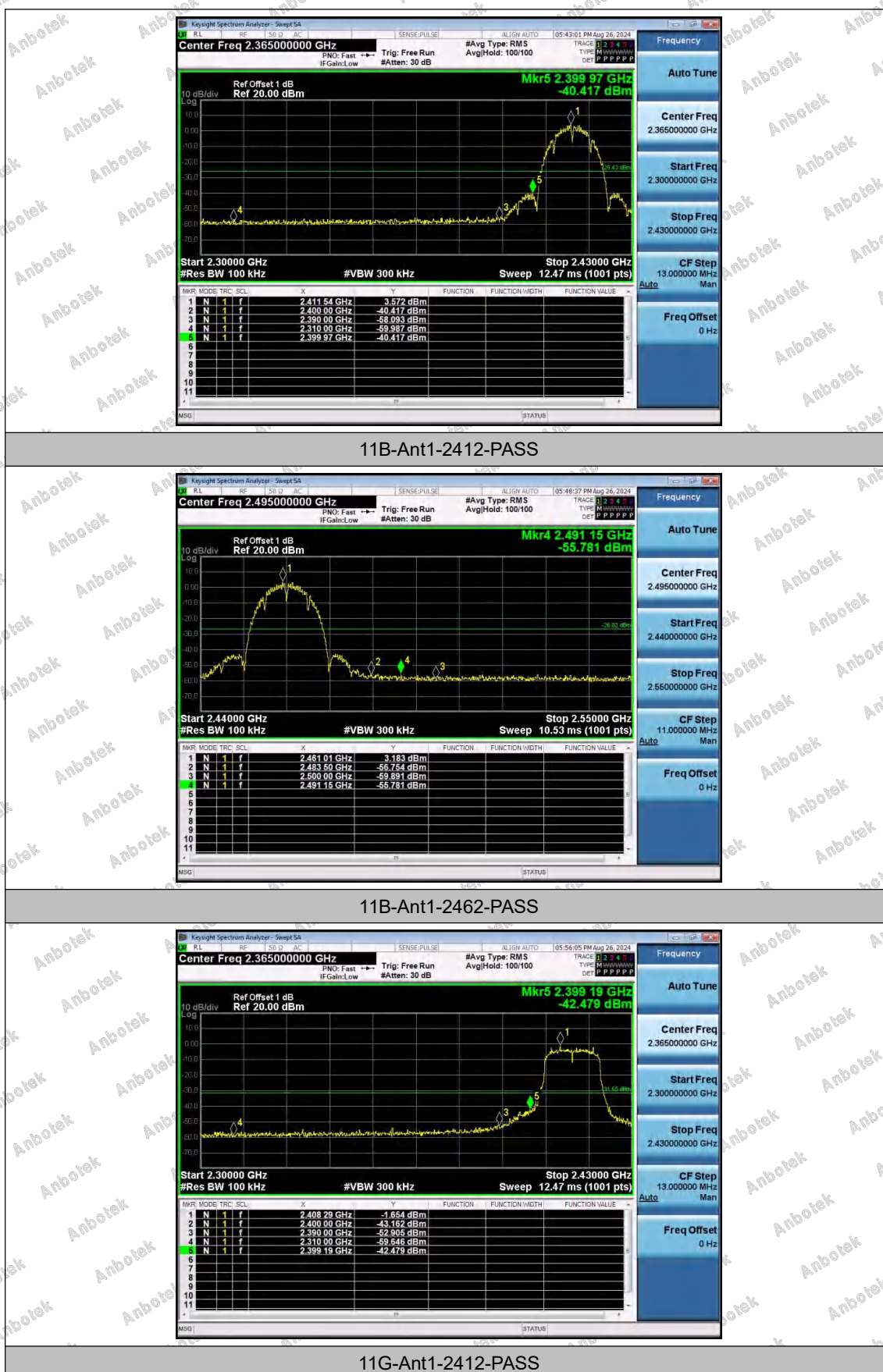
## Appendix E: Conducted Band edge

### Test Result

| TestMode  | Antenna | Channel | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|----------------|---------------|-------------|------------|---------|
| 11B       | Ant1    | Low     | 2412           | 3.57          | -40.42      | ≤-26.43    | PASS    |
| 11B       | Ant1    | High    | 2462           | 3.18          | -55.78      | ≤-26.82    | PASS    |
| 11G       | Ant1    | Low     | 2412           | -1.65         | -42.48      | ≤-31.65    | PASS    |
| 11G       | Ant1    | High    | 2462           | -1.43         | -53.81      | ≤-31.43    | PASS    |
| 11N20SISO | Ant1    | Low     | 2412           | -0.52         | -41.54      | ≤-30.52    | PASS    |
| 11N20SISO | Ant1    | High    | 2462           | -1.62         | -54.4       | ≤-31.62    | PASS    |
| 11N40SISO | Ant1    | Low     | 2422           | -4.32         | -41.56      | ≤-34.32    | PASS    |
| 11N40SISO | Ant1    | High    | 2452           | -4.35         | -54.01      | ≤-34.35    | PASS    |



## Test Graphs



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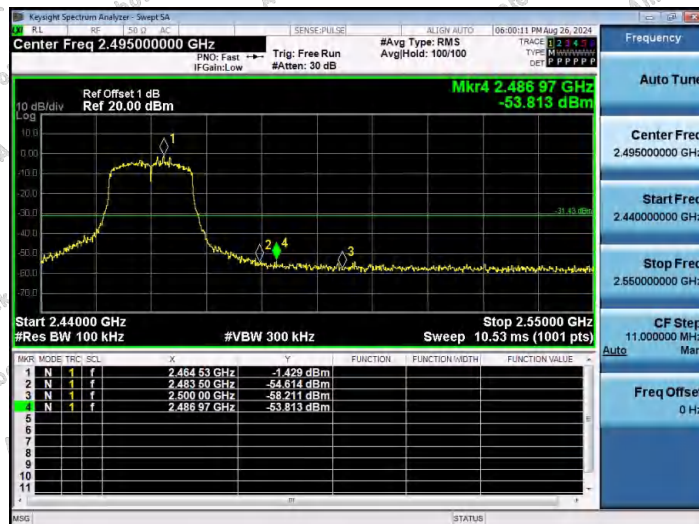
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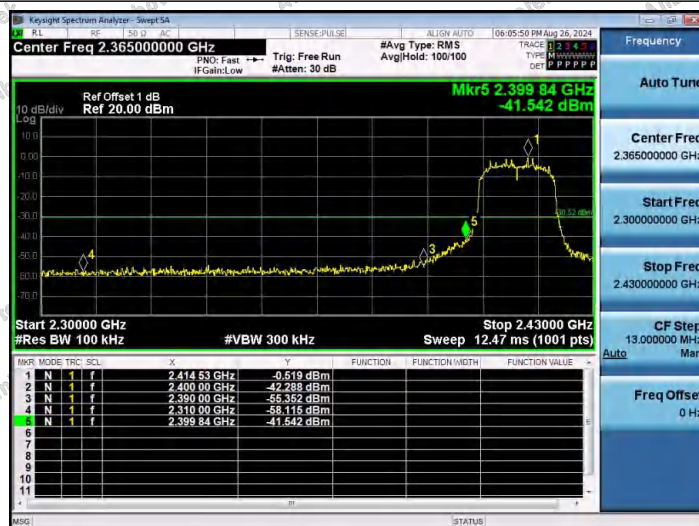
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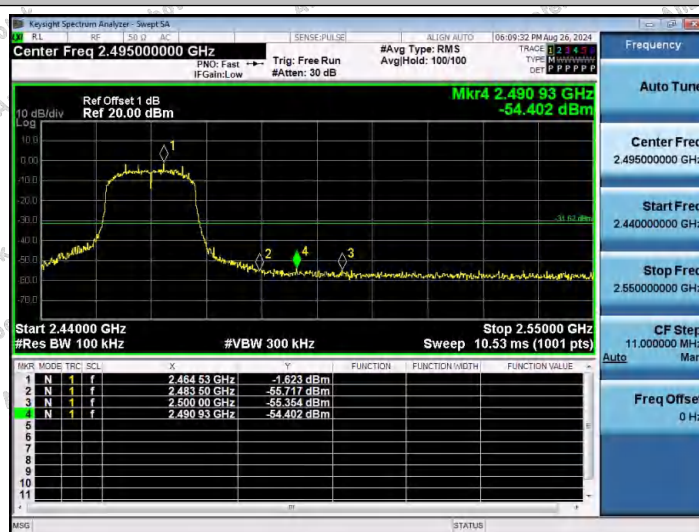




11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS

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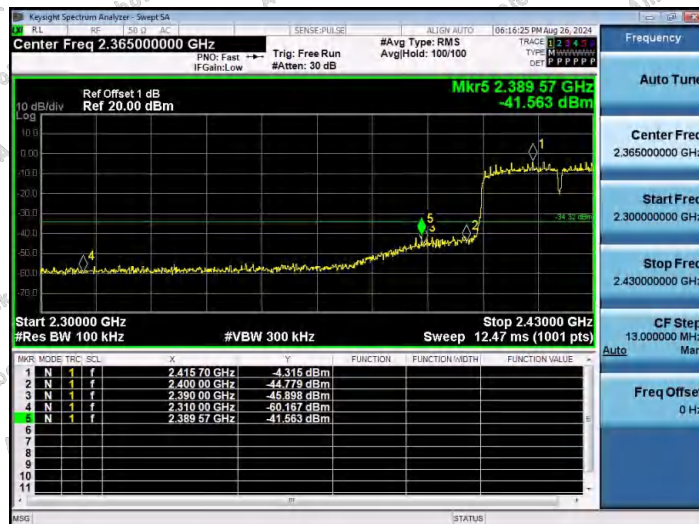
Tel: (86) 0755-26066440 Email: service@anbotek.com



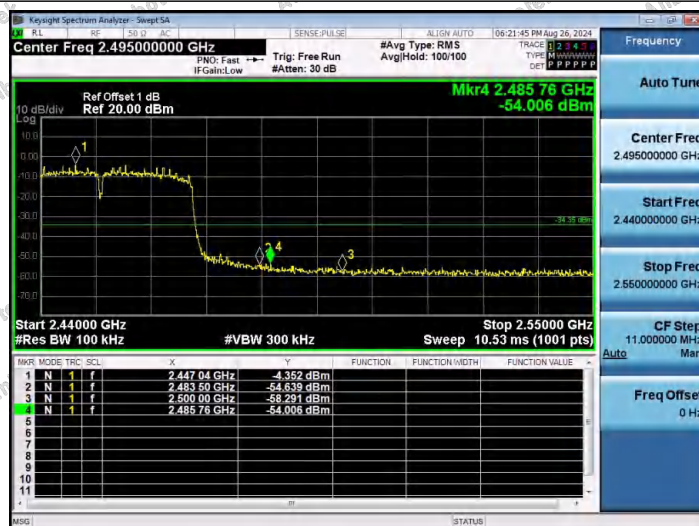
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11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2452-PASS



## Appendix F: Conducted Spurious Emission

### Test Result

| TestMode  | Antenna | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412           | 0~Reference     | 3.43           | 3.43         | ---         | PASS    |
| 11B       | Ant1    | 2412           | 30~1000         | 3.43           | -59.85       | ≤-26.57     | PASS    |
| 11B       | Ant1    | 2412           | 1000~26500      | 3.43           | -52.96       | ≤-26.57     | PASS    |
| 11B       | Ant1    | 2437           | 0~Reference     | 3.02           | 3.02         | ---         | PASS    |
| 11B       | Ant1    | 2437           | 30~1000         | 3.02           | -64.91       | ≤-26.98     | PASS    |
| 11B       | Ant1    | 2437           | 1000~26500      | 3.02           | -53.39       | ≤-26.98     | PASS    |
| 11B       | Ant1    | 2462           | 0~Reference     | 1.04           | 1.04         | ---         | PASS    |
| 11B       | Ant1    | 2462           | 30~1000         | 1.04           | -65.28       | ≤-28.96     | PASS    |
| 11B       | Ant1    | 2462           | 1000~26500      | 1.04           | -53.26       | ≤-28.96     | PASS    |
| 11G       | Ant1    | 2412           | 0~Reference     | -4.06          | -4.06        | ---         | PASS    |
| 11G       | Ant1    | 2412           | 30~1000         | -4.06          | -59.59       | ≤-34.06     | PASS    |
| 11G       | Ant1    | 2412           | 1000~26500      | -4.06          | -49.42       | ≤-34.06     | PASS    |
| 11G       | Ant1    | 2437           | 0~Reference     | -4.21          | -4.21        | ---         | PASS    |
| 11G       | Ant1    | 2437           | 30~1000         | -4.21          | -65.56       | ≤-34.21     | PASS    |
| 11G       | Ant1    | 2437           | 1000~26500      | -4.21          | -49.43       | ≤-34.21     | PASS    |
| 11G       | Ant1    | 2462           | 0~Reference     | -4.82          | -4.82        | ---         | PASS    |
| 11G       | Ant1    | 2462           | 30~1000         | -4.82          | -60.04       | ≤-34.82     | PASS    |
| 11G       | Ant1    | 2462           | 1000~26500      | -4.82          | -49.06       | ≤-34.82     | PASS    |
| 11N20SISO | Ant1    | 2412           | 0~Reference     | -4.71          | -4.71        | ---         | PASS    |
| 11N20SISO | Ant1    | 2412           | 30~1000         | -4.71          | -60.7        | ≤-34.71     | PASS    |
| 11N20SISO | Ant1    | 2412           | 1000~26500      | -4.71          | -49.07       | ≤-34.71     | PASS    |
| 11N20SISO | Ant1    | 2437           | 0~Reference     | -1.41          | -1.41        | ---         | PASS    |
| 11N20SISO | Ant1    | 2437           | 30~1000         | -1.41          | -60.55       | ≤-31.41     | PASS    |
| 11N20SISO | Ant1    | 2437           | 1000~26500      | -1.41          | -49.37       | ≤-31.41     | PASS    |
| 11N20SISO | Ant1    | 2462           | 0~Reference     | -3.48          | -3.48        | ---         | PASS    |
| 11N20SISO | Ant1    | 2462           | 30~1000         | -3.48          | -66.28       | ≤-33.48     | PASS    |
| 11N20SISO | Ant1    | 2462           | 1000~26500      | -3.48          | -49.07       | ≤-33.48     | PASS    |
| 11N40SISO | Ant1    | 2422           | 0~Reference     | -4.05          | -4.05        | ---         | PASS    |
| 11N40SISO | Ant1    | 2422           | 30~1000         | -4.05          | -60.32       | ≤-34.05     | PASS    |
| 11N40SISO | Ant1    | 2422           | 1000~26500      | -4.05          | -49.75       | ≤-34.05     | PASS    |
| 11N40SISO | Ant1    | 2437           | 0~Reference     | -4.61          | -4.61        | ---         | PASS    |
| 11N40SISO | Ant1    | 2437           | 30~1000         | -4.61          | -61.38       | ≤-34.61     | PASS    |
| 11N40SISO | Ant1    | 2437           | 1000~26500      | -4.61          | -50.41       | ≤-34.61     | PASS    |
| 11N40SISO | Ant1    | 2452           | 0~Reference     | -5.18          | -5.18        | ---         | PASS    |
| 11N40SISO | Ant1    | 2452           | 30~1000         | -5.18          | -63.89       | ≤-35.18     | PASS    |
| 11N40SISO | Ant1    | 2452           | 1000~26500      | -5.18          | -50.54       | ≤-35.18     | PASS    |

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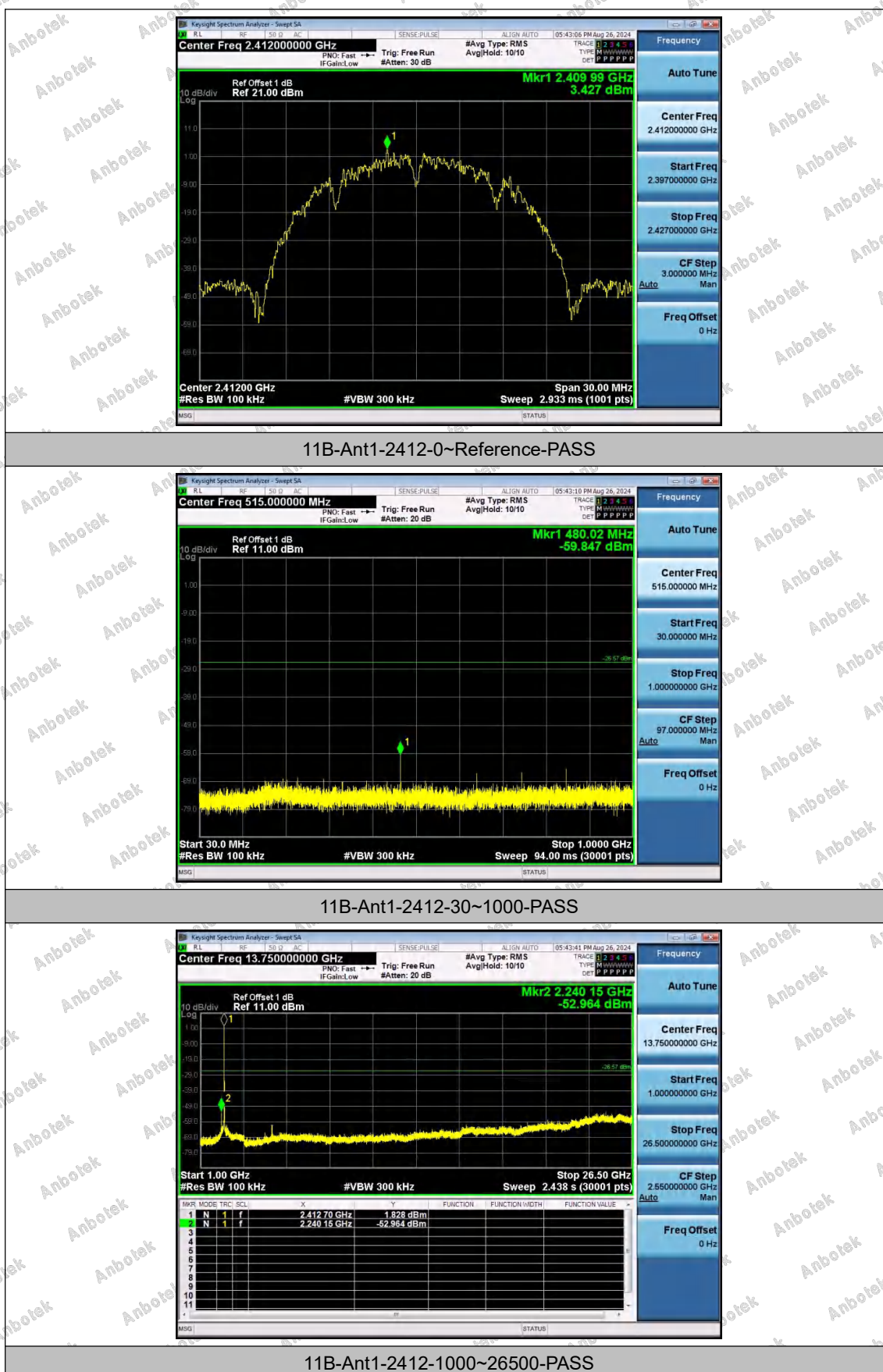


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## Test Graphs



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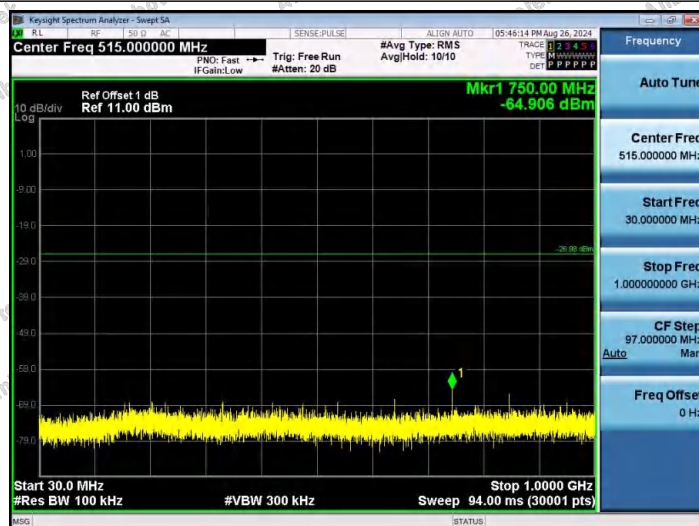


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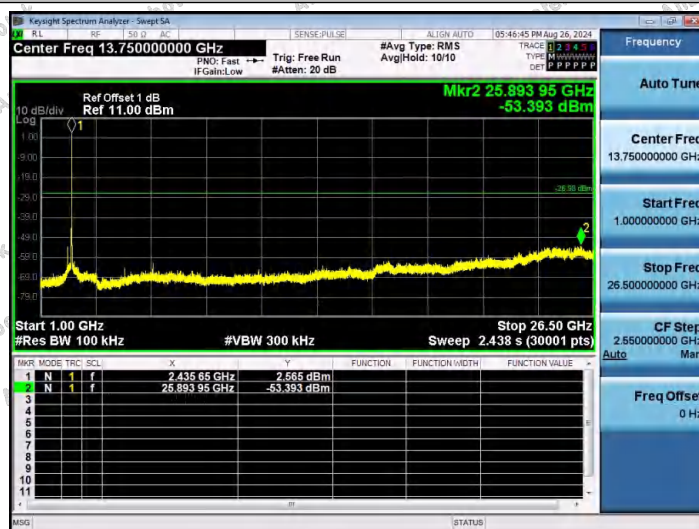




11B-Ant1-2437-0~Reference-PASS



11B-Ant1-2437-30~1000-PASS



11B-Ant1-2437-1000~26500-PASS

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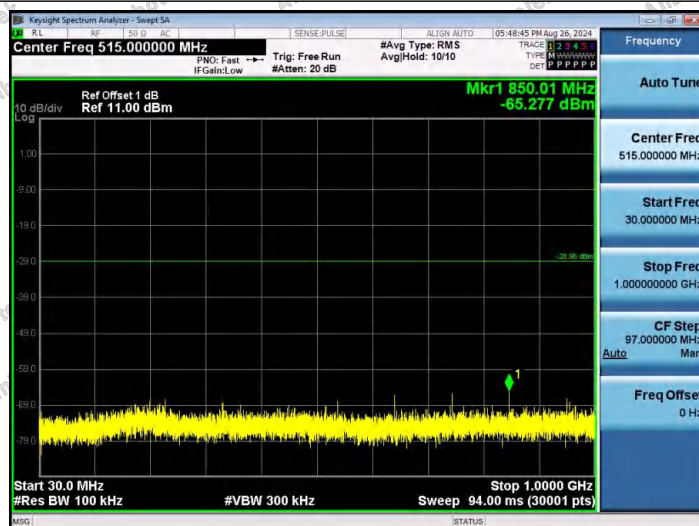


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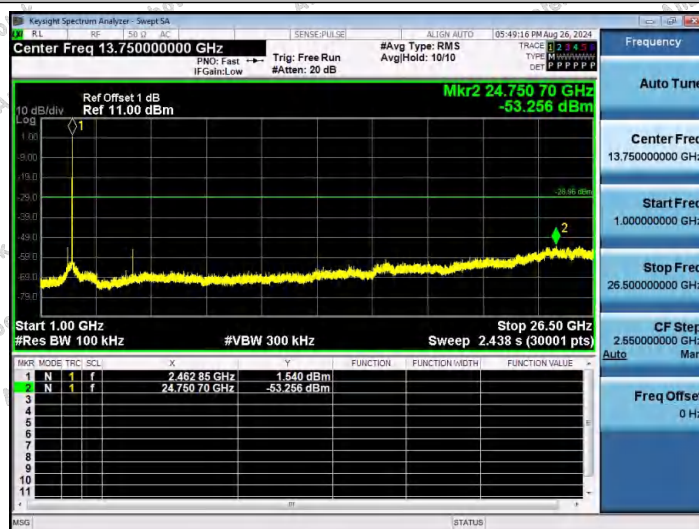




11B-Ant1-2462-0~Reference-PASS



11B-Ant1-2462-30~1000-PASS



11B-Ant1-2462-1000~26500-PASS

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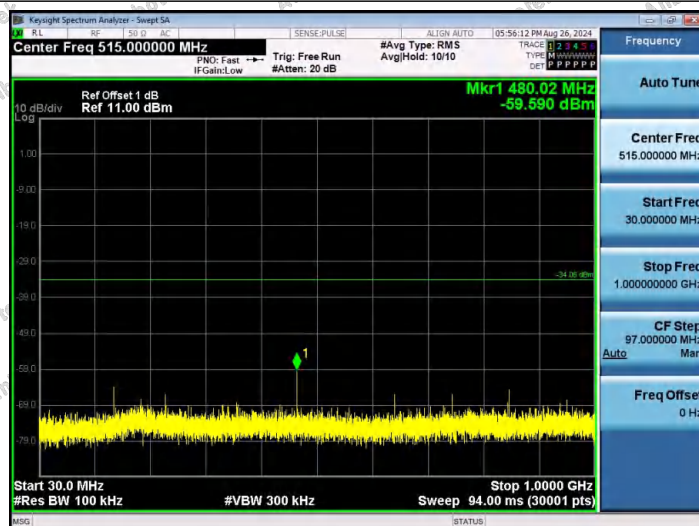
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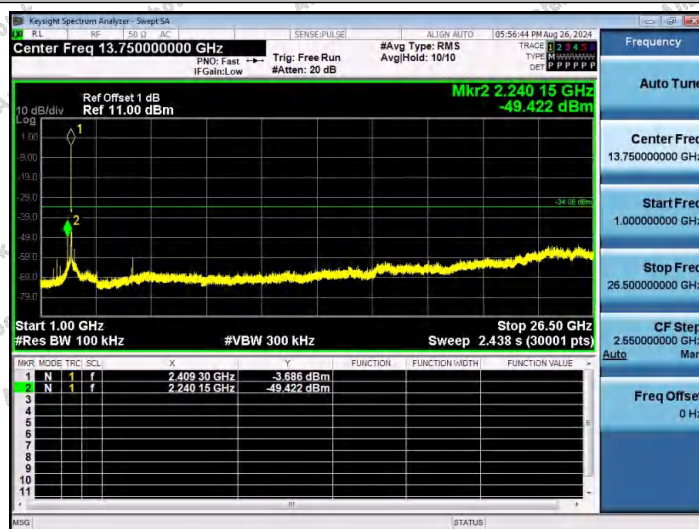




11G-Ant1-2412-0~Reference-PASS



11G-Ant1-2412-30~1000-PASS



11G-Ant1-2412-1000~26500-PASS

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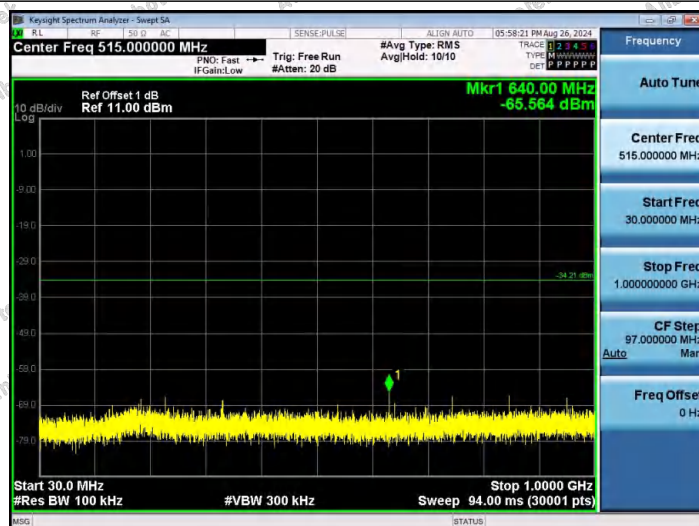
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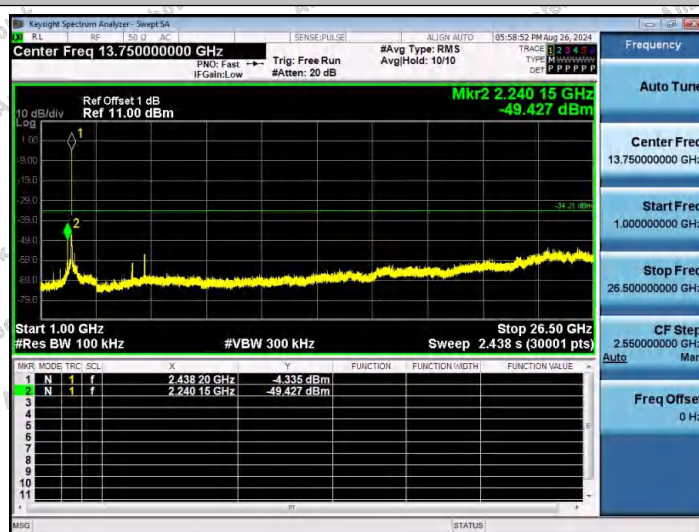




11G-Ant1-2437-0~Reference-PASS



11G-Ant1-2437-30~1000-PASS



11G-Ant1-2437-1000~26500-PASS

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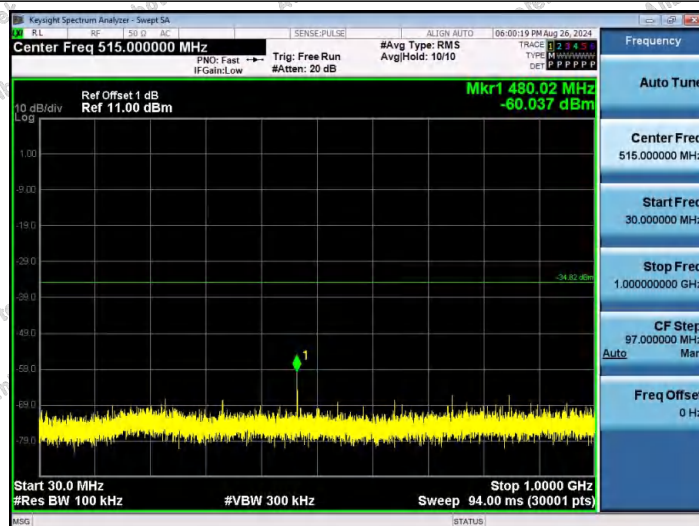
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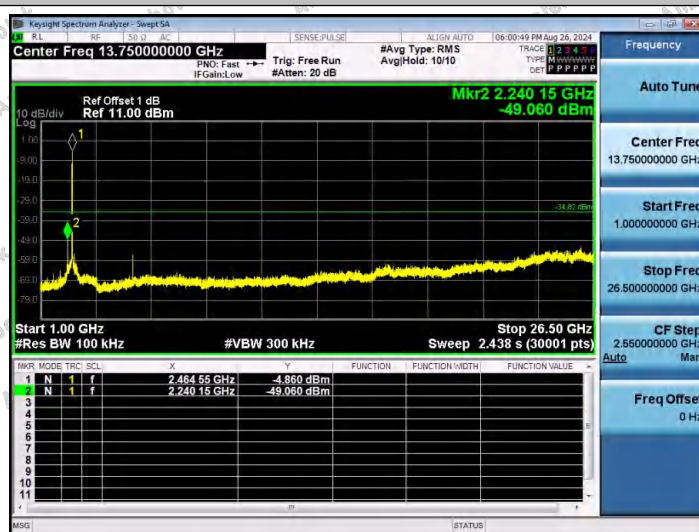




11G-Ant1-2462-0~Reference-PASS



11G-Ant1-2462-30~1000-PASS



11G-Ant1-2462-1000~26500-PASS

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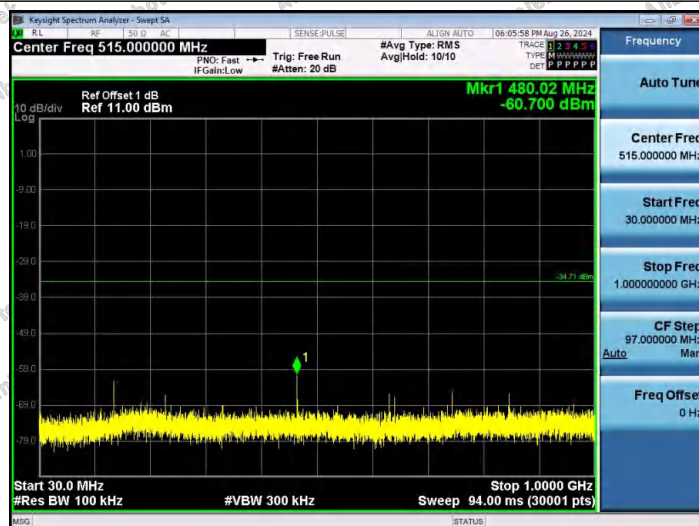


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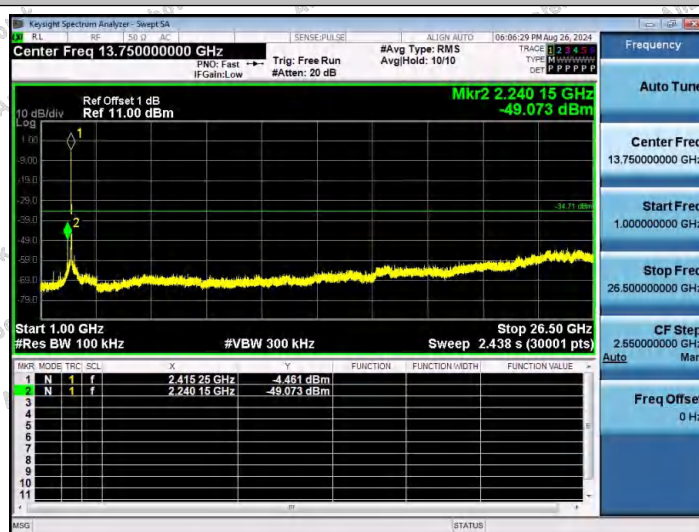




11N20SISO-Ant1-2412-0~Reference-PASS



11N20SISO-Ant1-2412-30~1000-PASS



11N20SISO-Ant1-2412-1000~26500-PASS

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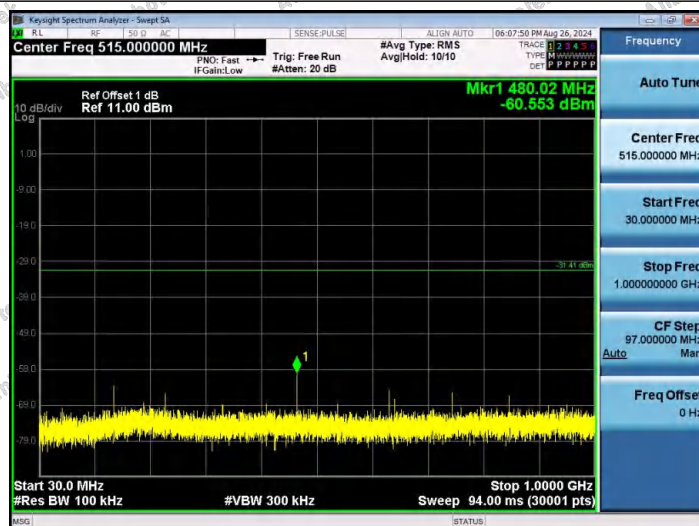
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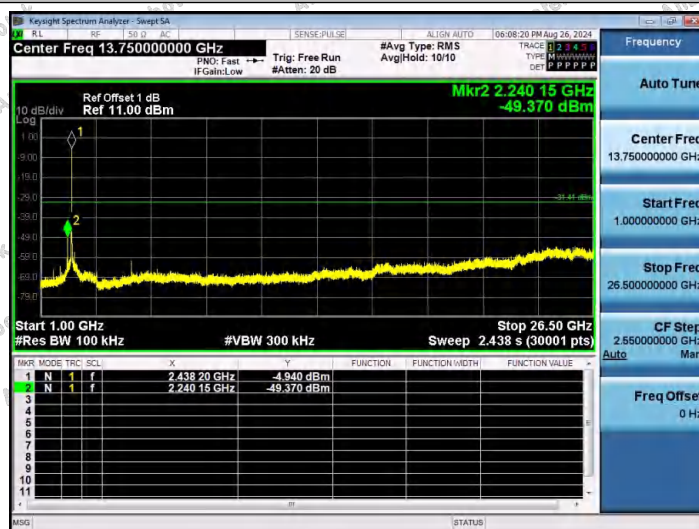




11N20SISO-Ant1-2437-0~Reference-PASS



11N20SISO-Ant1-2437-30~1000-PASS



11N20SISO-Ant1-2437-1000~26500-PASS

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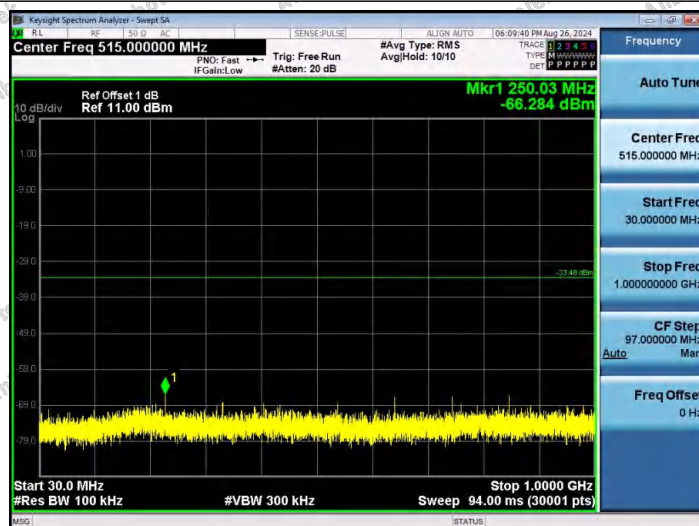
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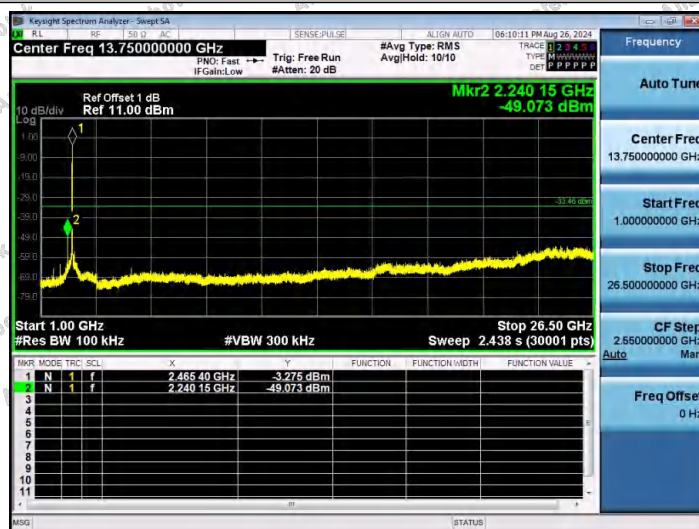




11N20SISO-Ant1-2462-0~Reference-PASS



11N20SISO-Ant1-2462-30~1000-PASS



11N20SISO-Ant1-2462-1000~26500-PASS

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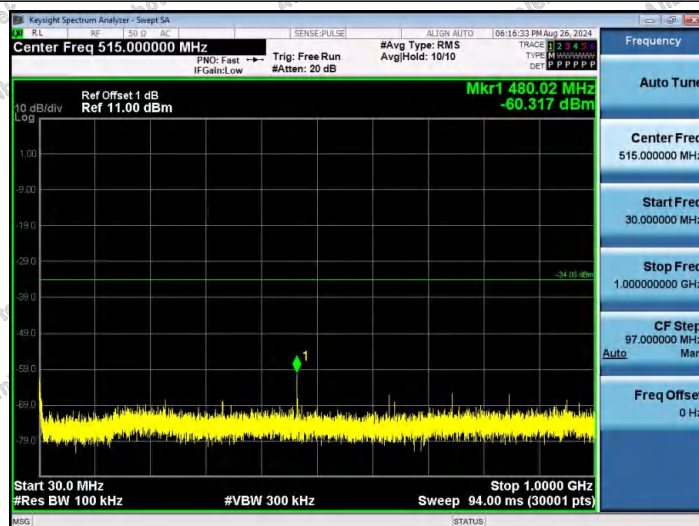
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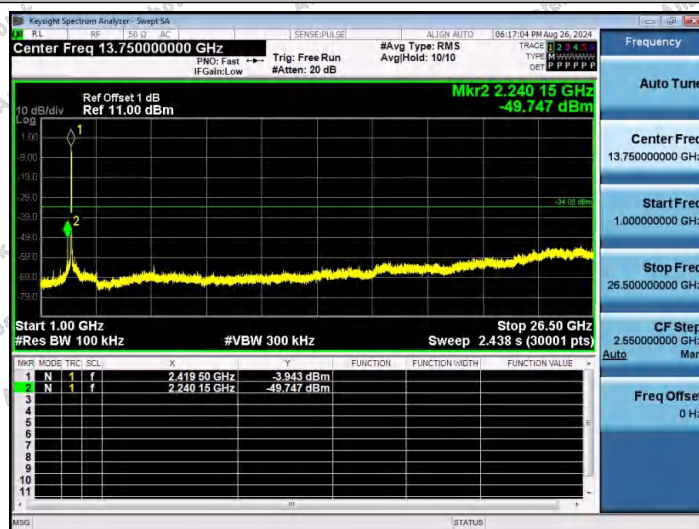




11N40SISO-Ant1-2422-0~Reference-PASS



11N40SISO-Ant1-2422-30~1000-PASS



11N40SISO-Ant1-2422-1000~26500-PASS

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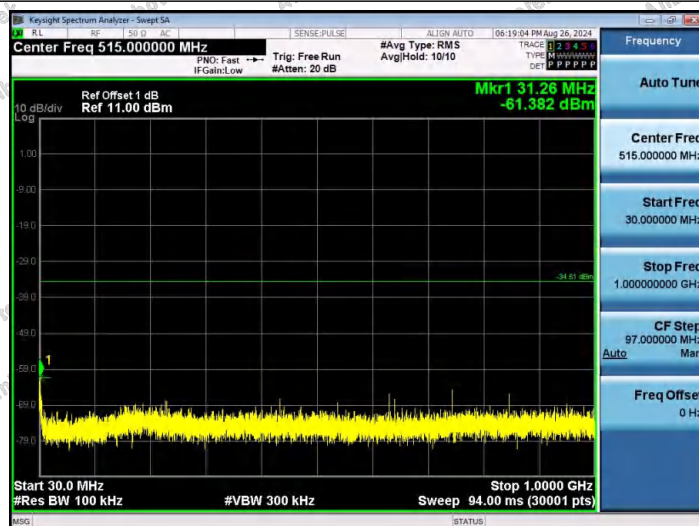
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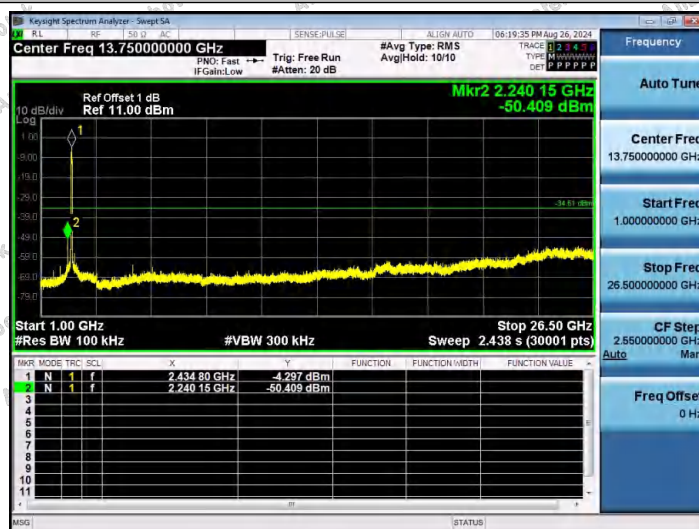




11N40SISO-Ant1-2437-0~Reference-PASS



11N40SISO-Ant1-2437-30~1000-PASS



11N40SISO-Ant1-2437-1000~26500-PASS

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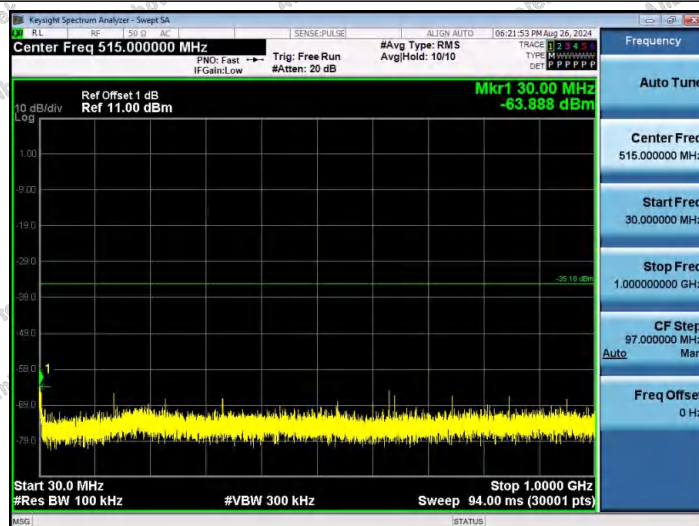
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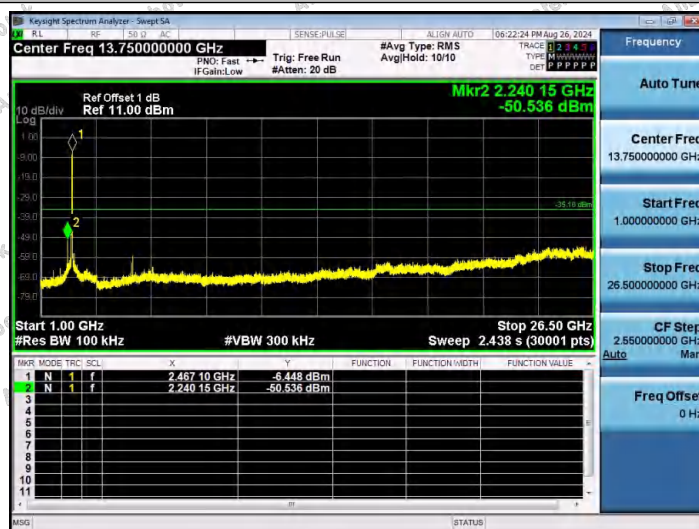




11N40SISO-Ant1-2452-0~Reference-PASS



11N40SISO-Ant1-2452-30~1000-PASS



11N40SISO-Ant1-2452-1000~26500-PASS

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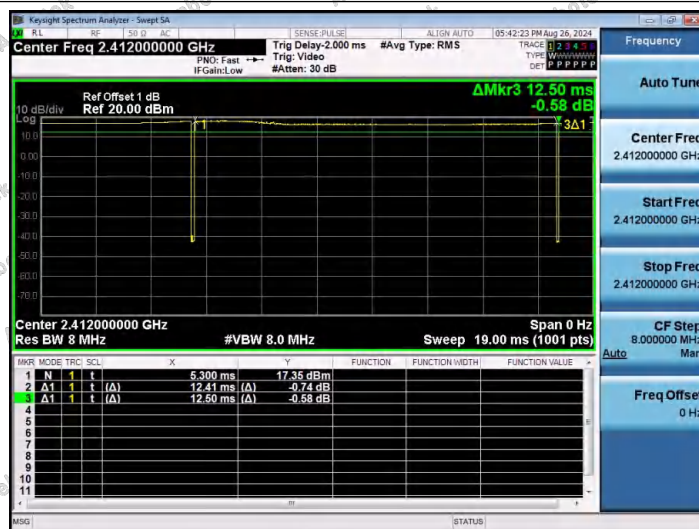
## Appendix G: Duty Cycle

### Test Result

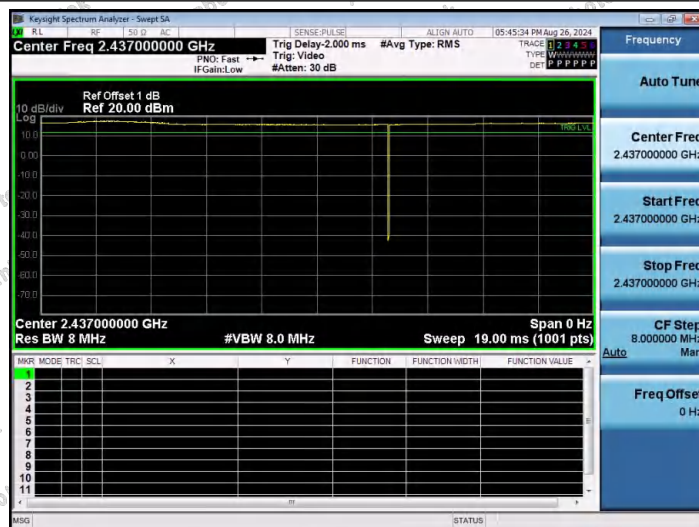
| TestMode  | Antenna | Frequency[MHz] | Transmission<br>Duration<br>[ms] | Transmission<br>Period [ms] | Duty Cycle<br>[%] | Factor |
|-----------|---------|----------------|----------------------------------|-----------------------------|-------------------|--------|
| 11B       | Ant1    | 2412           | 12.41                            | 12.50                       | 99.28             | 0.03   |
| 11B       | Ant1    | 2437           | 7.00                             | 7.00                        | 100.00            | 0.00   |
| 11B       | Ant1    | 2462           | 12.41                            | 12.56                       | 98.81             | 0.05   |
| 11G       | Ant1    | 2412           | 2.07                             | 2.13                        | 97.18             | 0.12   |
| 11G       | Ant1    | 2437           | 2.06                             | 2.16                        | 95.37             | 0.21   |
| 11G       | Ant1    | 2462           | 2.06                             | 2.13                        | 96.71             | 0.15   |
| 11N20SISO | Ant1    | 2412           | 1.92                             | 2.07                        | 92.75             | 0.33   |
| 11N20SISO | Ant1    | 2437           | 1.92                             | 1.98                        | 96.97             | 0.13   |
| 11N20SISO | Ant1    | 2462           | 1.92                             | 2.07                        | 92.75             | 0.33   |
| 11N40SISO | Ant1    | 2422           | 0.95                             | 1.08                        | 87.96             | 0.56   |
| 11N40SISO | Ant1    | 2437           | 0.95                             | 1.11                        | 85.59             | 0.68   |
| 11N40SISO | Ant1    | 2452           | 0.95                             | 1.03                        | 92.23             | 0.35   |



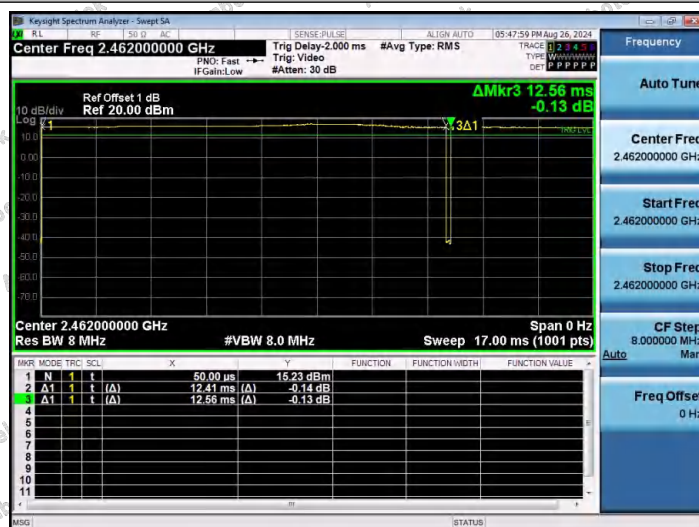
## Test Graphs



NTNV-11B-Ant1-2412



NTNV-11B-Ant1-2437



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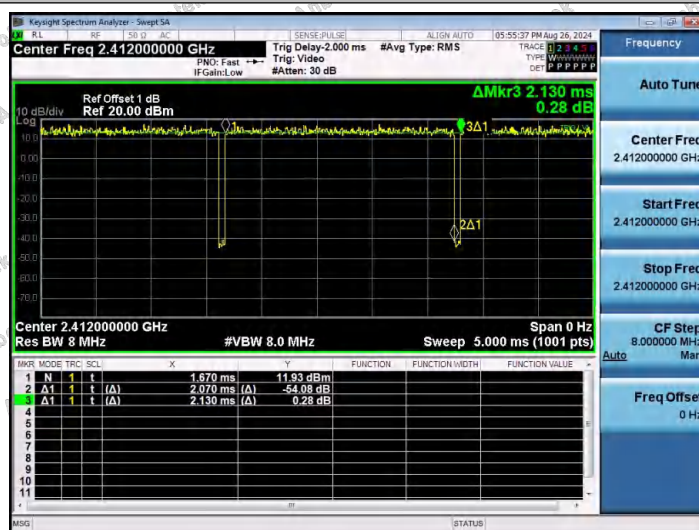
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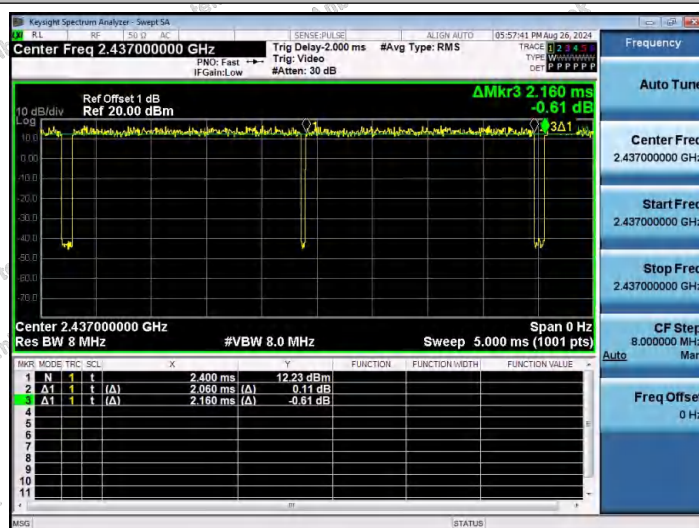
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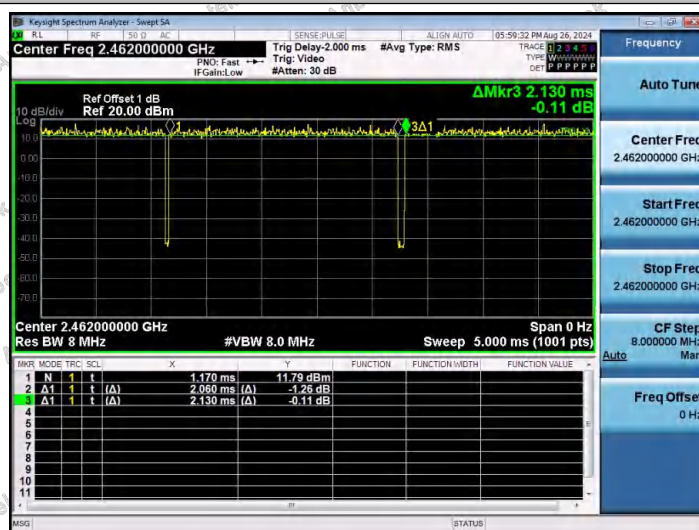
NTNV-11B-Ant1-2462



NTNV-11G-Ant1-2412



NTNV-11G-Ant1-2437



NTNV-11G-Ant1-2462

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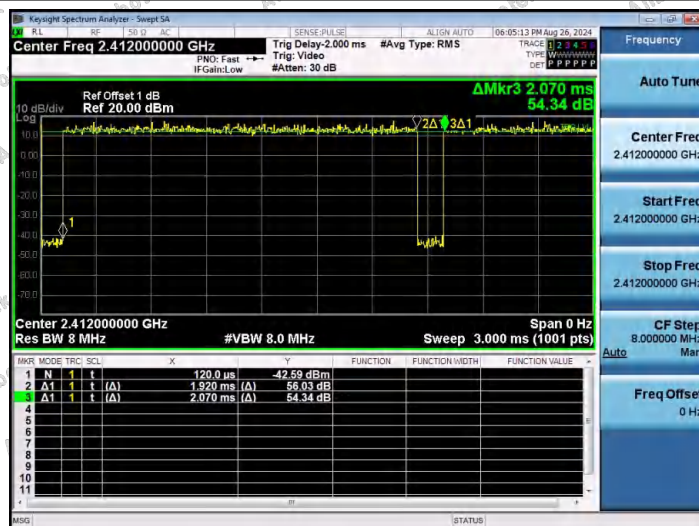
Tel: (86) 0755-26066440 Email: service@anbotek.com



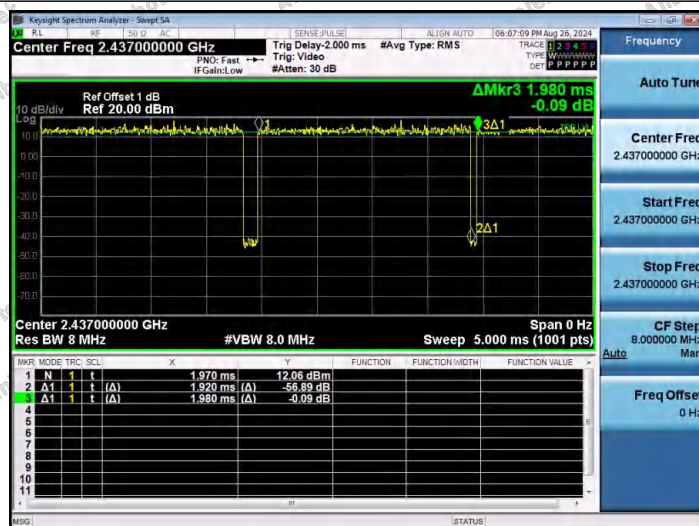
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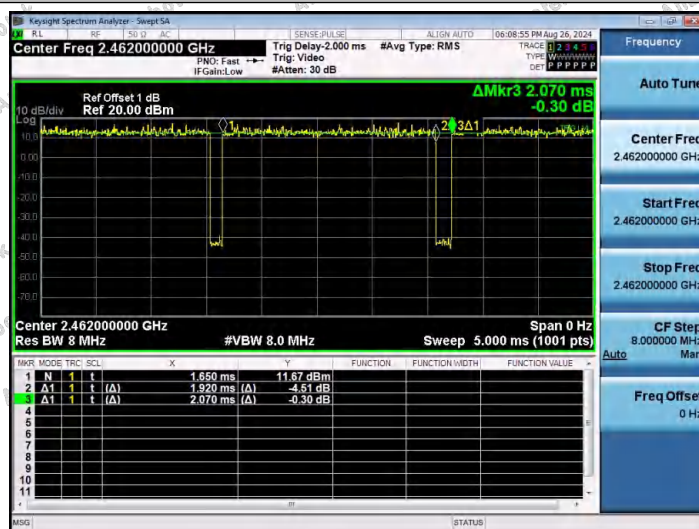




NTNV-11N20SISO-Ant1-2412



NTNV-11N20SISO-Ant1-2437



NTNV-11N20SISO-Ant1-2462

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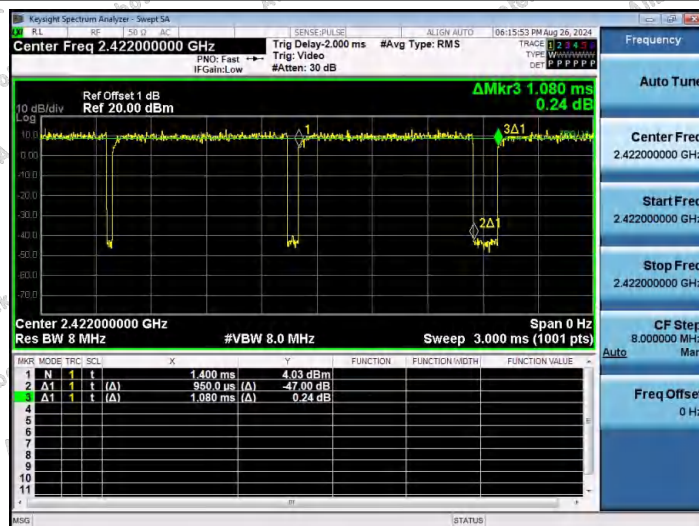
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Tel: (86) 0755-26066440 Email: service@anbotek.com

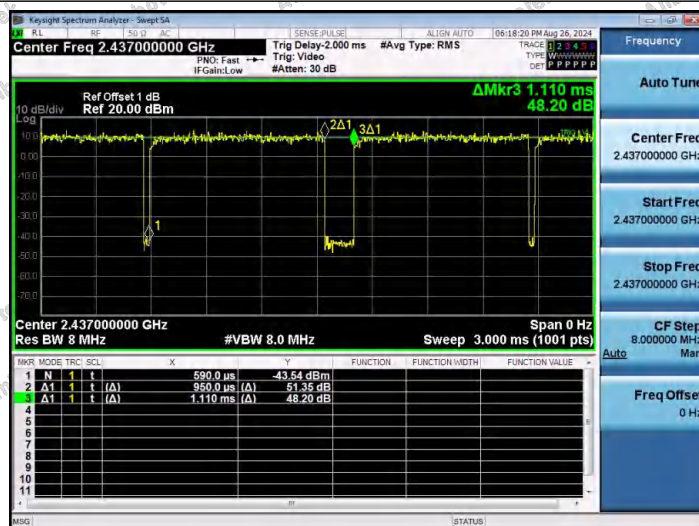


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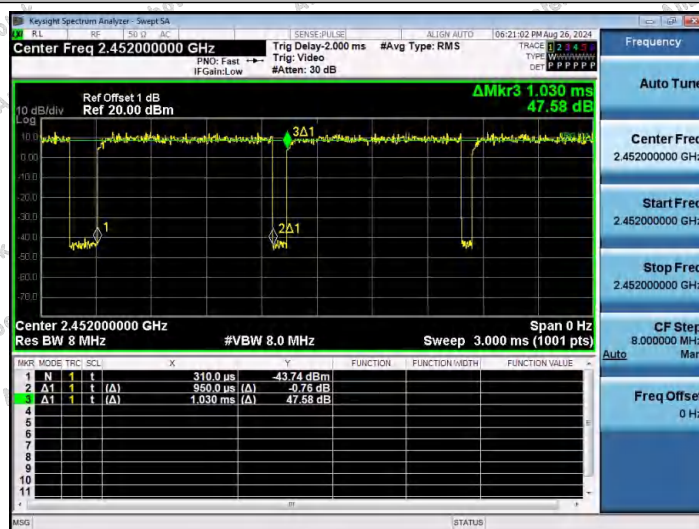




NTNV-11N40SISO-Ant1-2422



NTNV-11N40SISO-Ant1-2437



NTNV-11N40SISO-Ant1-2452

---End---

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