

## Appendix F: Conducted Spurious Emission

### Test Result

| TestMode   | Antenna | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|------------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| 11B        | Ant1    | 2412           | Reference       | 1.73           | 1.73         | ---         | PASS    |
|            |         |                | 30~1000         | 1.73           | -67.82       | ≤-18.27     | PASS    |
|            |         |                | 1000~26500      | 1.73           | -53.63       | ≤-18.27     | PASS    |
|            |         | 2437           | Reference       | 2.46           | 2.46         | ---         | PASS    |
|            |         |                | 30~1000         | 2.46           | -67.16       | ≤-17.54     | PASS    |
|            |         |                | 1000~26500      | 2.46           | -54.67       | ≤-17.54     | PASS    |
|            |         | 2462           | Reference       | 2.43           | 2.43         | ---         | PASS    |
|            |         |                | 30~1000         | 2.43           | -68.45       | ≤-17.57     | PASS    |
|            |         |                | 1000~26500      | 2.43           | -53.93       | ≤-17.57     | PASS    |
| 11G        | Ant1    | 2412           | Reference       | -3.55          | -3.55        | ---         | PASS    |
|            |         |                | 30~1000         | -3.55          | -67.97       | ≤-23.55     | PASS    |
|            |         |                | 1000~26500      | -3.55          | -54.81       | ≤-23.55     | PASS    |
|            |         | 2437           | Reference       | -2.93          | -2.93        | ---         | PASS    |
|            |         |                | 30~1000         | -2.93          | -66.61       | ≤-22.93     | PASS    |
|            |         |                | 1000~26500      | -2.93          | -55.21       | ≤-22.93     | PASS    |
|            |         | 2462           | Reference       | -2.85          | -2.85        | ---         | PASS    |
|            |         |                | 30~1000         | -2.85          | -68.36       | ≤-22.85     | PASS    |
|            |         |                | 1000~26500      | -2.85          | -54.27       | ≤-22.85     | PASS    |
| 11N20SISO  | Ant1    | 2412           | Reference       | -2.92          | -2.92        | ---         | PASS    |
|            |         |                | 30~1000         | -2.92          | -67.94       | ≤-22.92     | PASS    |
|            |         |                | 1000~26500      | -2.92          | -55.44       | ≤-22.92     | PASS    |
|            |         | 2437           | Reference       | -3.81          | -3.81        | ---         | PASS    |
|            |         |                | 30~1000         | -3.81          | -68.03       | ≤-23.81     | PASS    |
|            |         |                | 1000~26500      | -3.81          | -54.57       | ≤-23.81     | PASS    |
|            |         | 2462           | Reference       | -2.95          | -2.95        | ---         | PASS    |
|            |         |                | 30~1000         | -2.95          | -67.04       | ≤-22.95     | PASS    |
|            |         |                | 1000~26500      | -2.95          | -55.22       | ≤-22.95     | PASS    |
| 11N40SISO  | Ant1    | 2422           | Reference       | -6.47          | -6.47        | ---         | PASS    |
|            |         |                | 30~1000         | -6.47          | -67.55       | ≤-26.47     | PASS    |
|            |         |                | 1000~26500      | -6.47          | -55.09       | ≤-26.47     | PASS    |
|            |         | 2437           | Reference       | -6.48          | -6.48        | ---         | PASS    |
|            |         |                | 30~1000         | -6.48          | -67.24       | ≤-26.48     | PASS    |
|            |         |                | 1000~26500      | -6.48          | -53.88       | ≤-26.48     | PASS    |
|            |         | 2452           | Reference       | -6.20          | -6.20        | ---         | PASS    |
|            |         |                | 30~1000         | -6.20          | -67.99       | ≤-26.2      | PASS    |
|            |         |                | 1000~26500      | -6.20          | -54.76       | ≤-26.2      | PASS    |
| 11AX20SISO | Ant1    | 2412           | Reference       | -5.48          | -5.48        | ---         | PASS    |

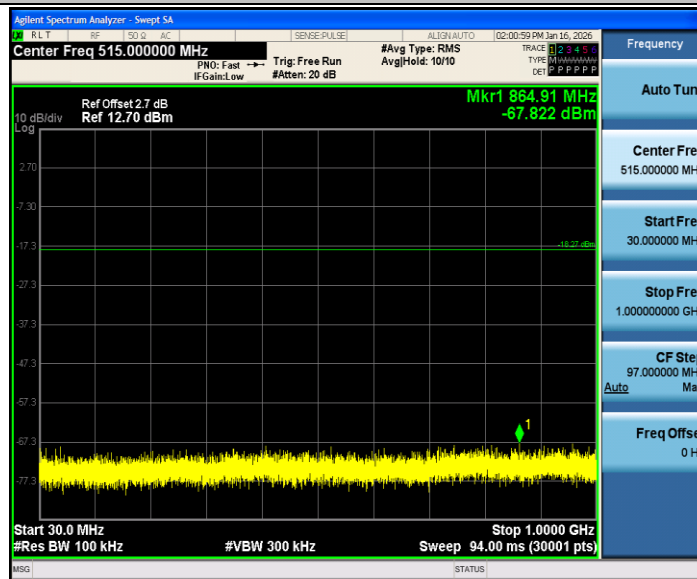
|            |      |      |            |       |        |               |      |
|------------|------|------|------------|-------|--------|---------------|------|
|            |      |      | 30~1000    | -5.48 | -67.66 | $\leq -25.48$ | PASS |
|            |      |      | 1000~26500 | -5.48 | -54.85 | $\leq -25.48$ | PASS |
|            |      | 2437 | Reference  | -4.05 | -4.05  | ---           | PASS |
|            |      |      | 30~1000    | -4.05 | -67.24 | $\leq -24.05$ | PASS |
|            |      |      | 1000~26500 | -4.05 | -54.95 | $\leq -24.05$ | PASS |
|            |      | 2462 | Reference  | -3.18 | -3.18  | ---           | PASS |
|            |      |      | 30~1000    | -3.18 | -67.93 | $\leq -23.18$ | PASS |
|            |      |      | 1000~26500 | -3.18 | -54.8  | $\leq -23.18$ | PASS |
| 11AX40SISO | Ant1 | 2422 | Reference  | -7.31 | -7.31  | ---           | PASS |
|            |      |      | 30~1000    | -7.31 | -31.6  | $\leq -27.31$ | PASS |
|            |      |      | 1000~26500 | -7.31 | -55.09 | $\leq -27.31$ | PASS |
|            |      | 2437 | Reference  | -6.38 | -6.38  | ---           | PASS |
|            |      |      | 30~1000    | -6.38 | -66.56 | $\leq -26.38$ | PASS |
|            |      |      | 1000~26500 | -6.38 | -54.81 | $\leq -26.38$ | PASS |
|            |      | 2452 | Reference  | -6.17 | -6.17  | ---           | PASS |
|            |      |      | 30~1000    | -6.17 | -67.24 | $\leq -26.17$ | PASS |
|            |      |      | 1000~26500 | -6.17 | -54.98 | $\leq -26.17$ | PASS |

## Test Graphs

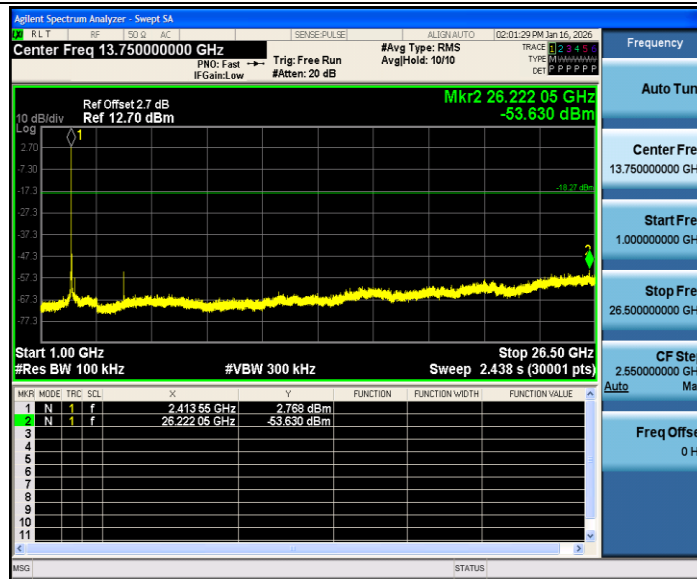
11B\_Ant1\_2412\_0~Reference



11B\_Ant1\_2412\_30~1000



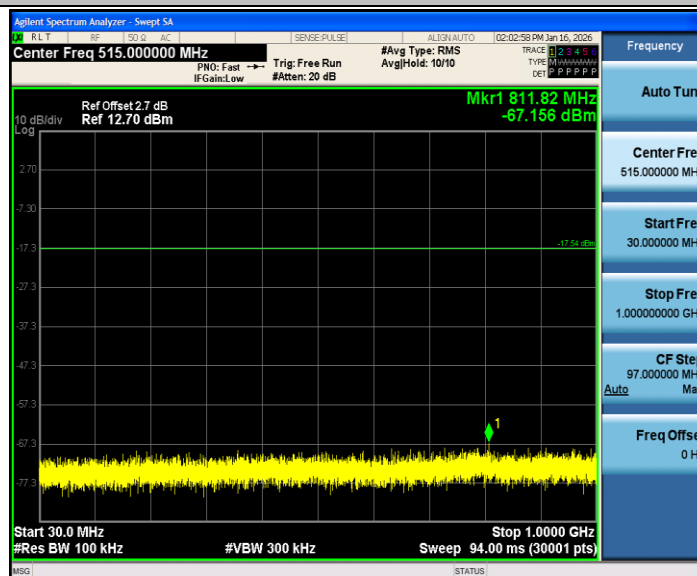
11B\_Ant1\_2412\_1000~26500



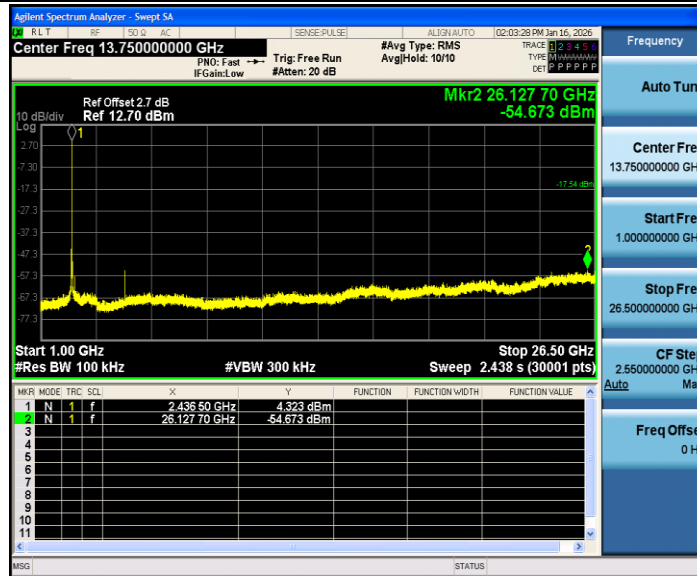
11B\_Ant1\_2437\_0~Reference



11B\_Ant1\_2437\_30~1000



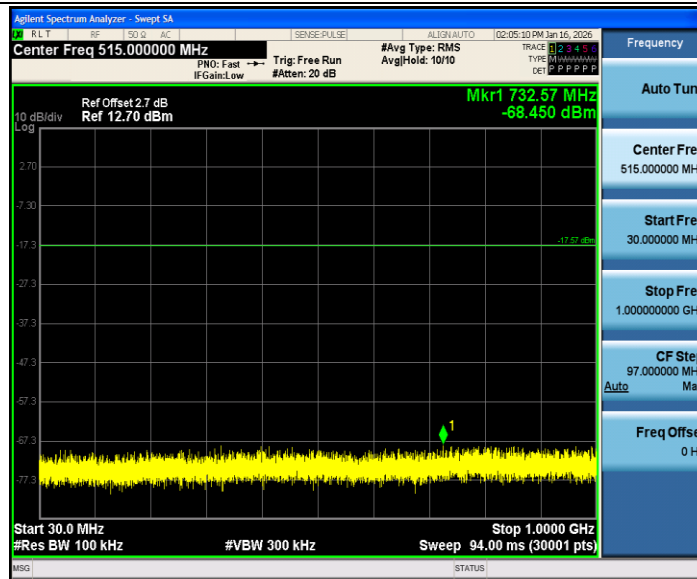
# 11B\_Ant1\_2437\_1000~26500



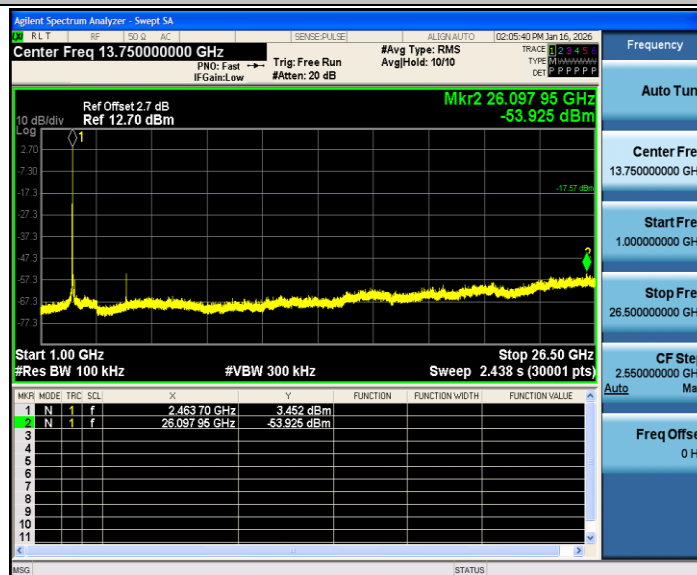
# 11B\_Ant1\_2462\_0~Reference



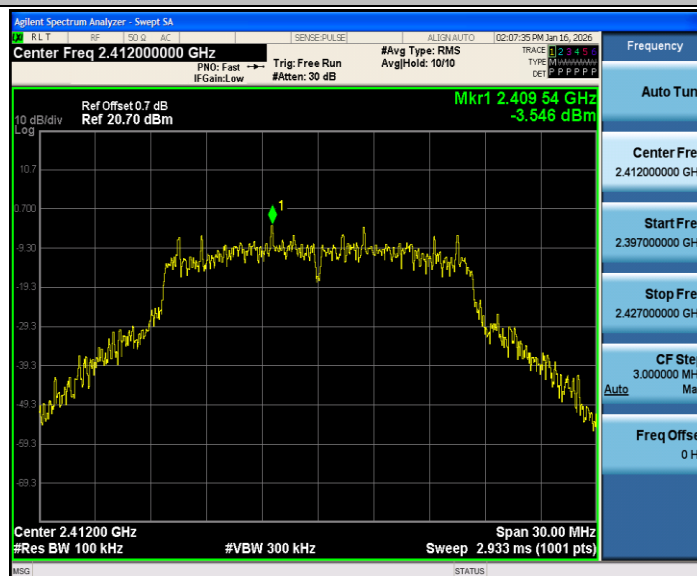
# 11B\_Ant1\_2462\_30~1000



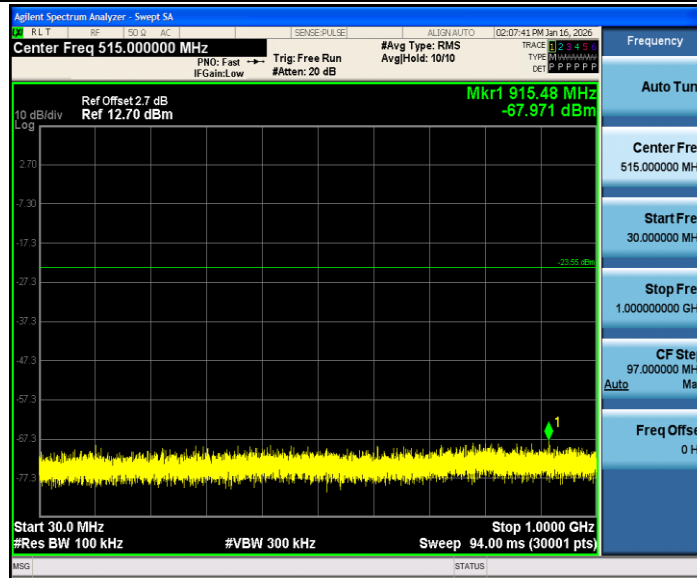
11B\_Ant1\_2462\_1000~26500



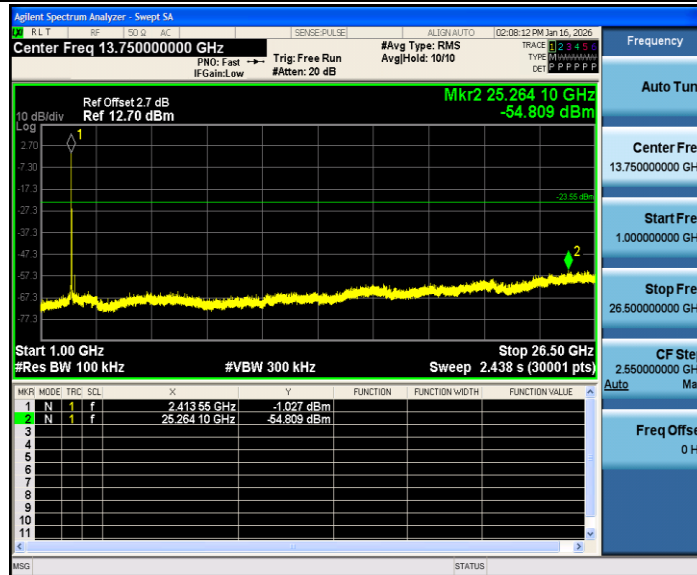
11G\_Ant1\_2412\_0~Reference



# 11G\_Ant1\_2412\_30~1000



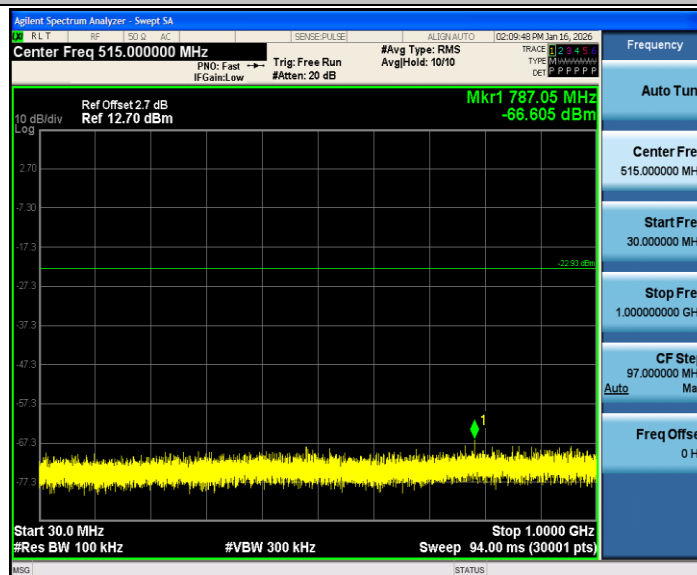
# 11G\_Ant1\_2412\_1000~26500



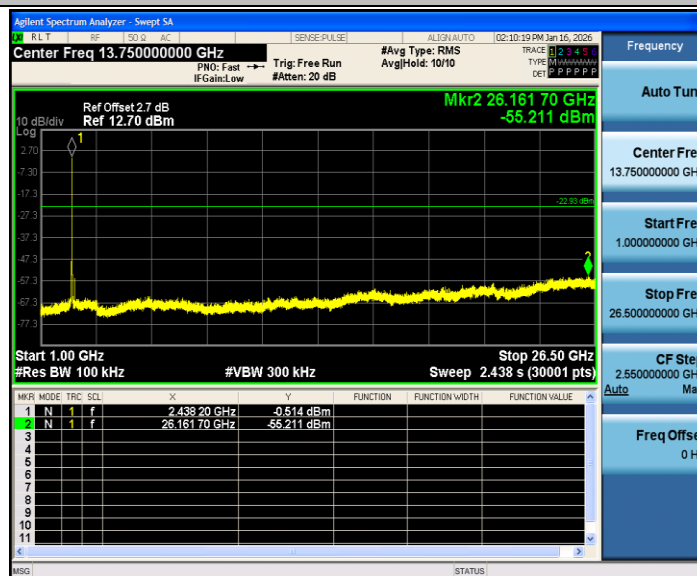
# 11G\_Ant1\_2437\_0~Reference



11G\_Ant1\_2437\_30~1000



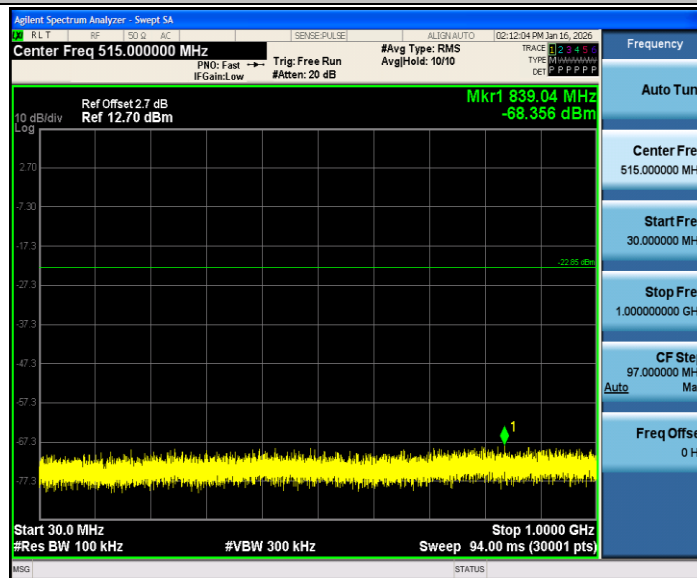
11G\_Ant1\_2437\_1000~26500



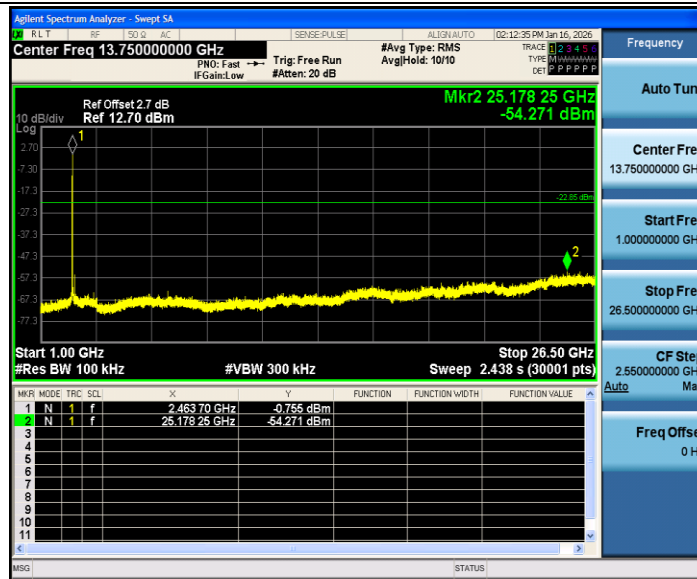
# 11G\_Ant1\_2462\_0~Reference



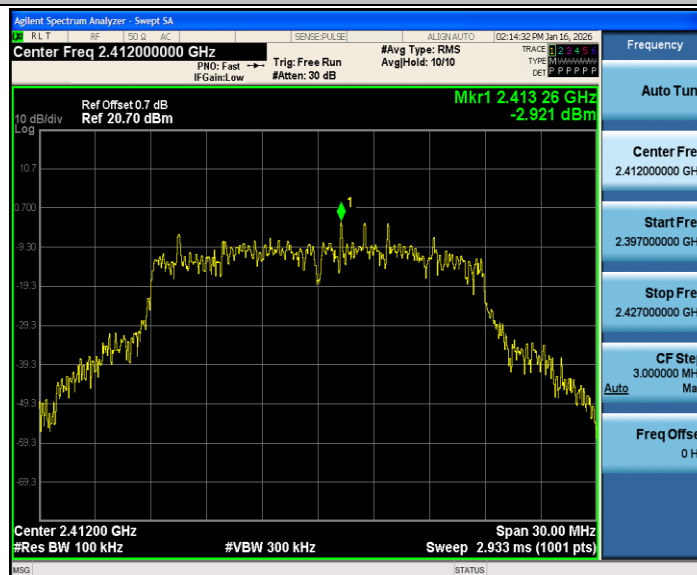
# 11G\_Ant1\_2462\_30~1000



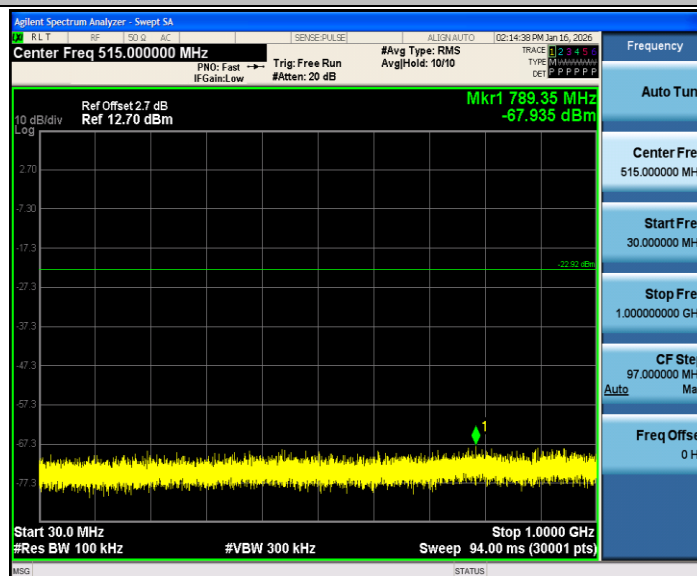
# 11G\_Ant1\_2462\_1000~26500



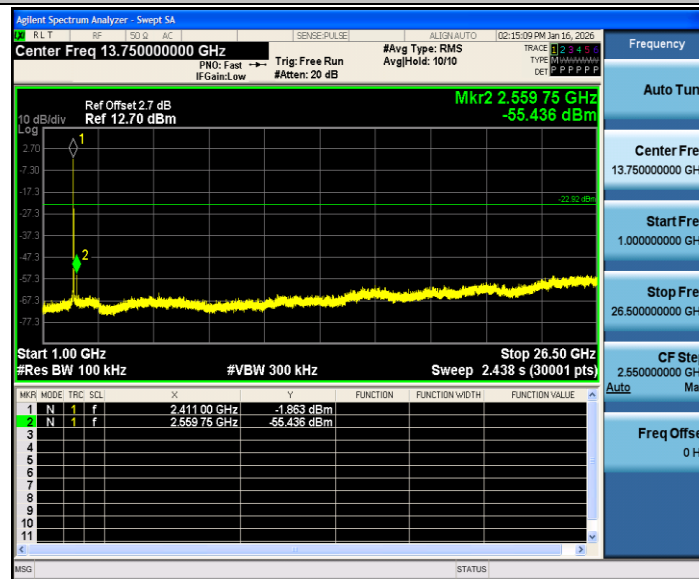
11N20SISO\_Ant1\_2412\_0~Reference



11N20SISO\_Ant1\_2412\_30~1000



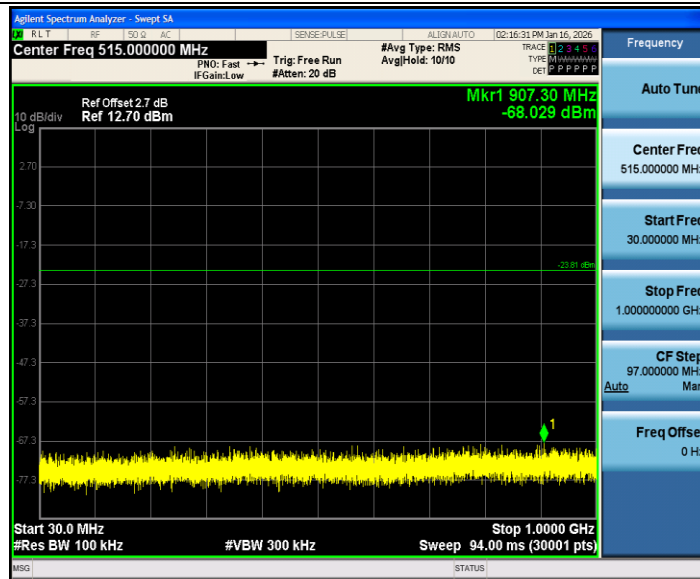
# 11N20SISO\_Ant1\_2412\_1000~26500



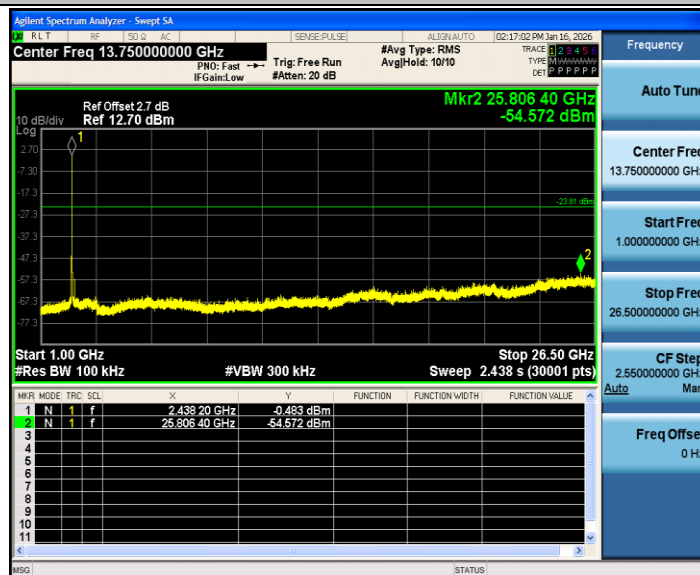
# 11N20SISO\_Ant1\_2437\_0~Reference



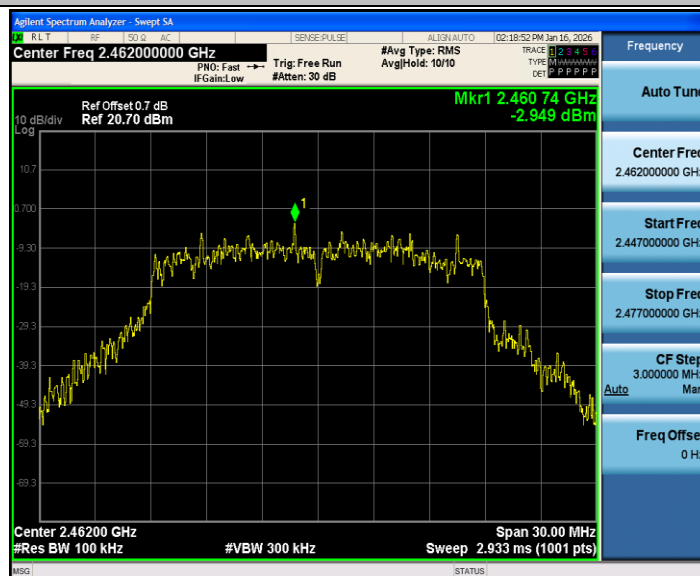
# 11N20SISO\_Ant1\_2437\_30~1000



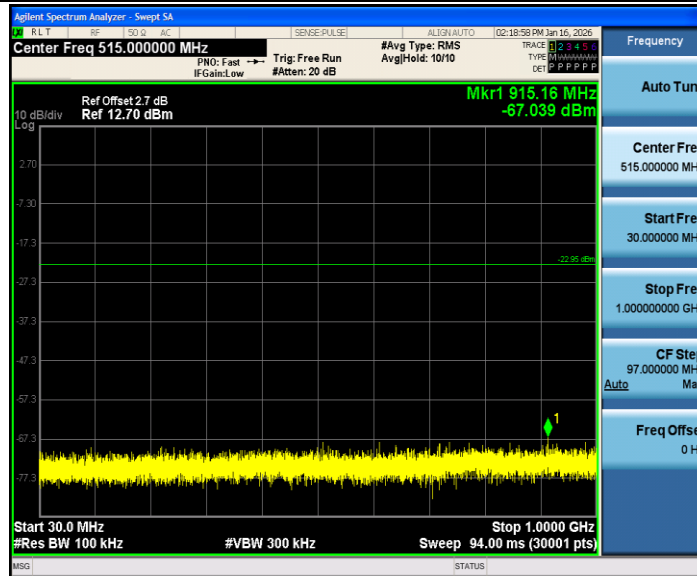
11N20SISO\_Ant1\_2437\_1000~26500



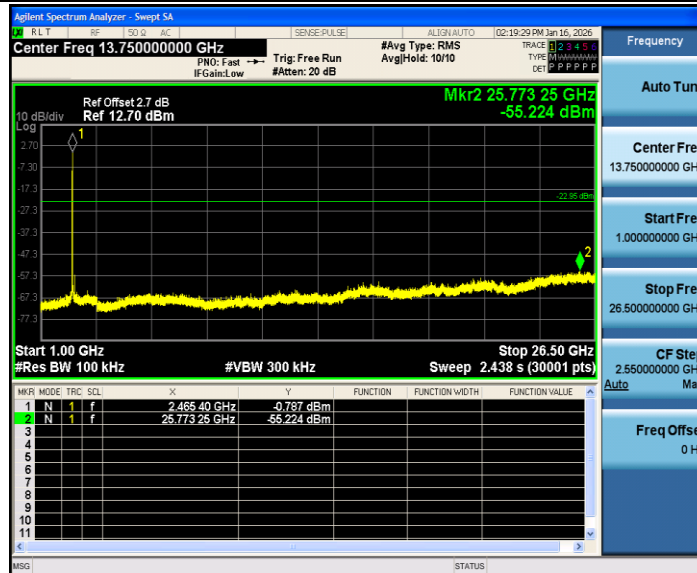
11N20SISO\_Ant1\_2462\_0~Reference



# 11N20SISO\_Ant1\_2462\_30~1000



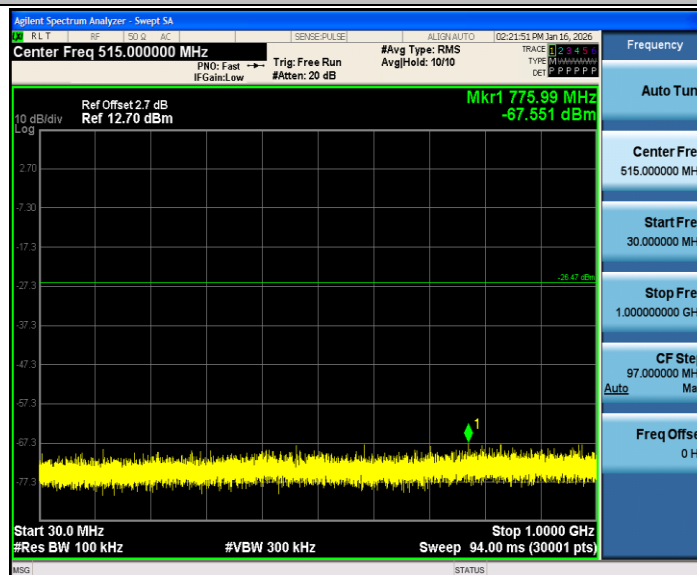
# 11N20SISO\_Ant1\_2462\_1000~26500



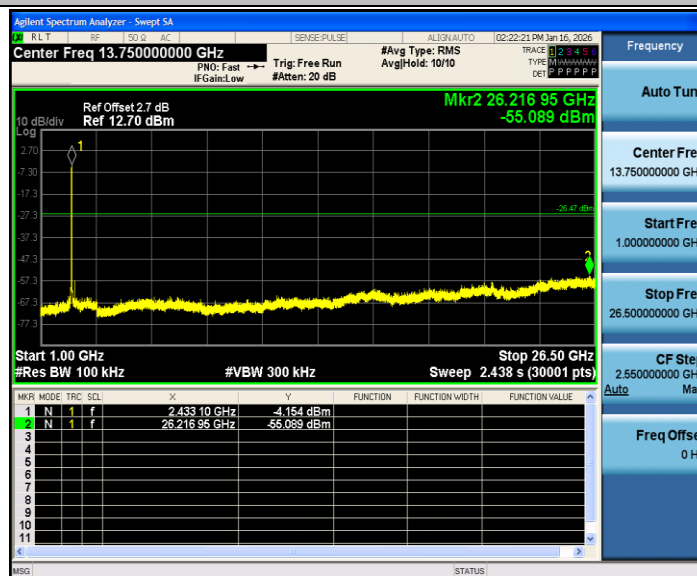
# 11N40SISO\_Ant1\_2422\_0~Reference



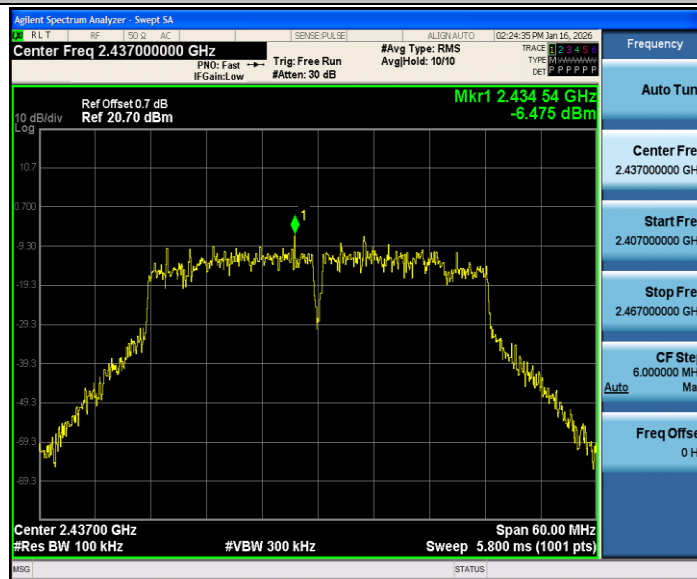
11N40SISO\_Ant1\_2422\_30~1000



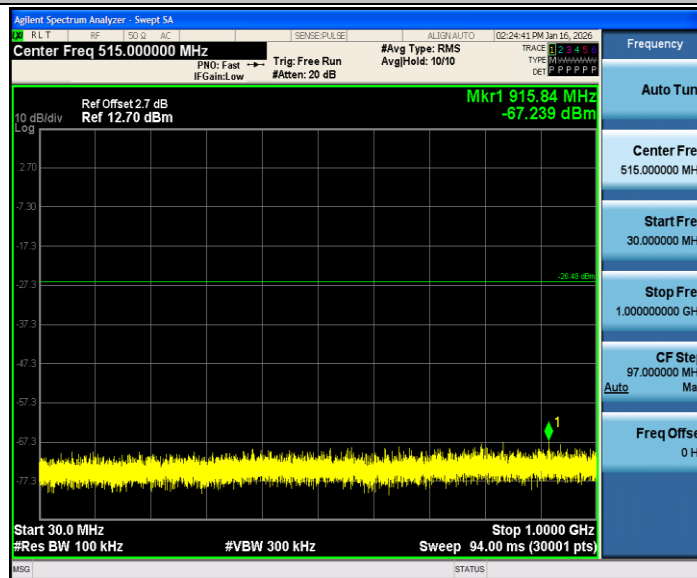
11N40SISO\_Ant1\_2422\_1000~26500



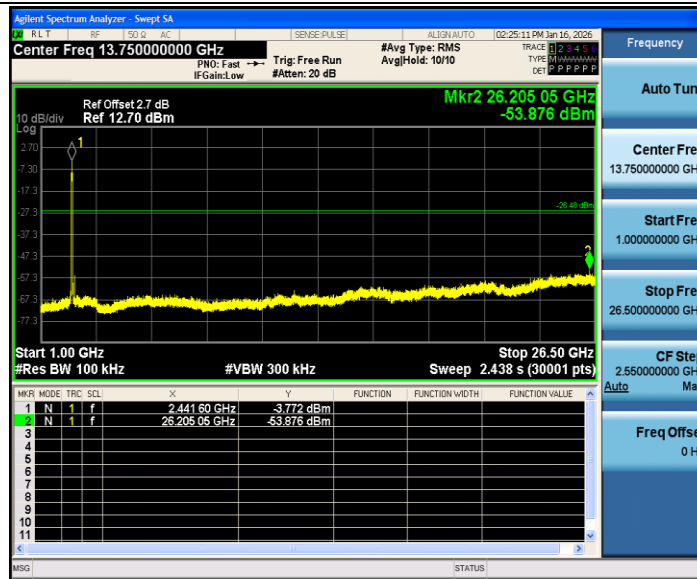
# 11N40SISO\_Ant1\_2437\_0~Reference



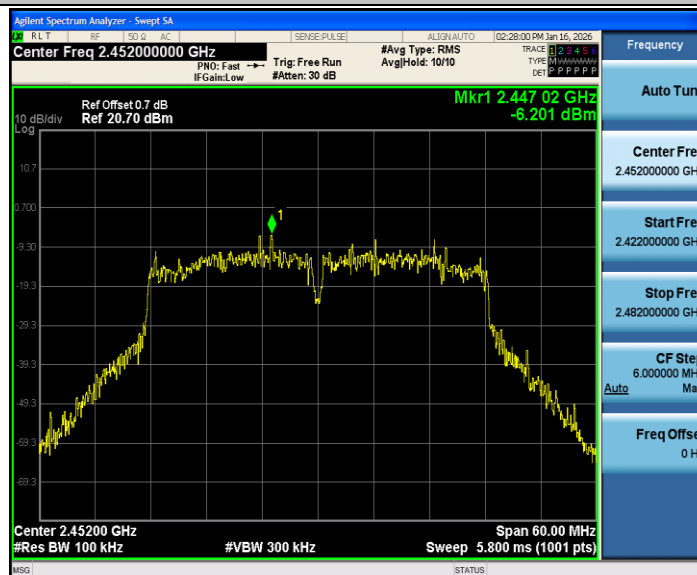
# 11N40SISO\_Ant1\_2437\_30~1000



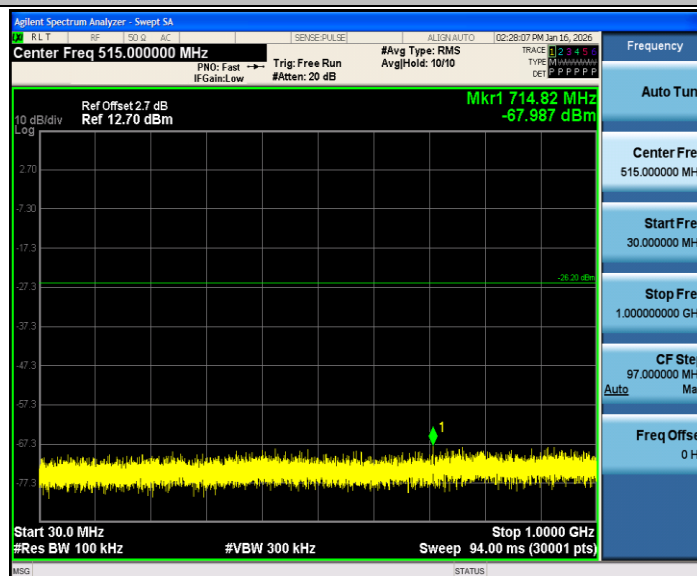
# 11N40SISO\_Ant1\_2437\_1000~26500



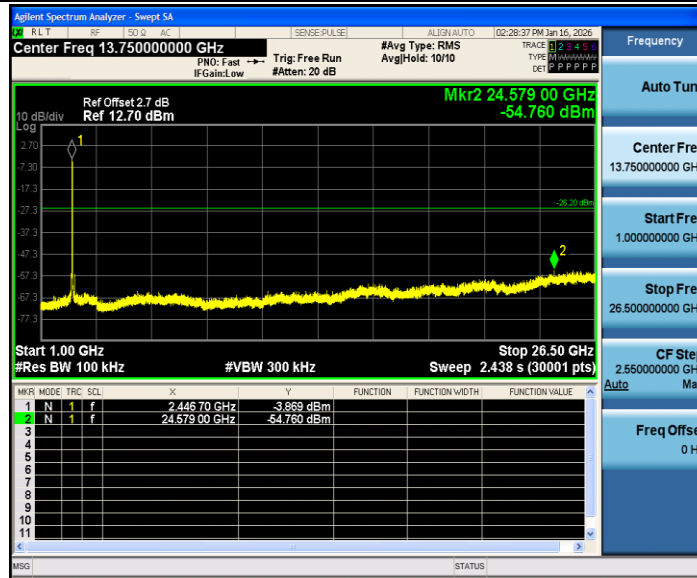
11N40SISO\_Ant1\_2452\_0~Reference



11N40SISO\_Ant1\_2452\_30~1000



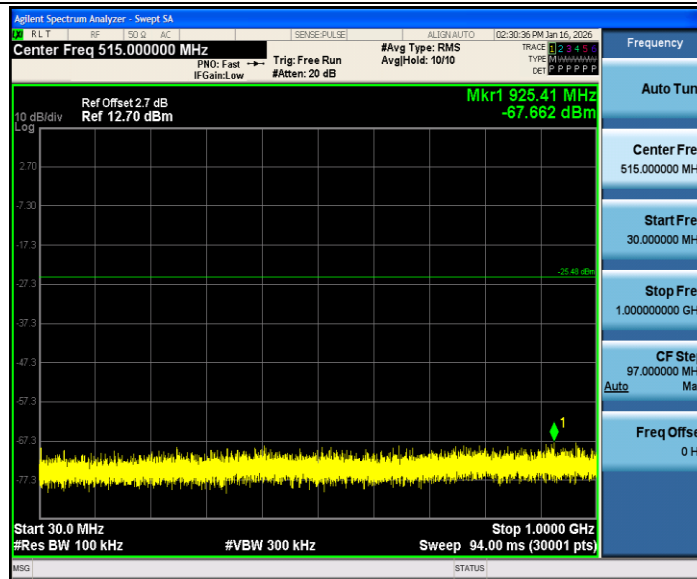
# 11N40SISO\_Ant1\_2452\_1000~26500



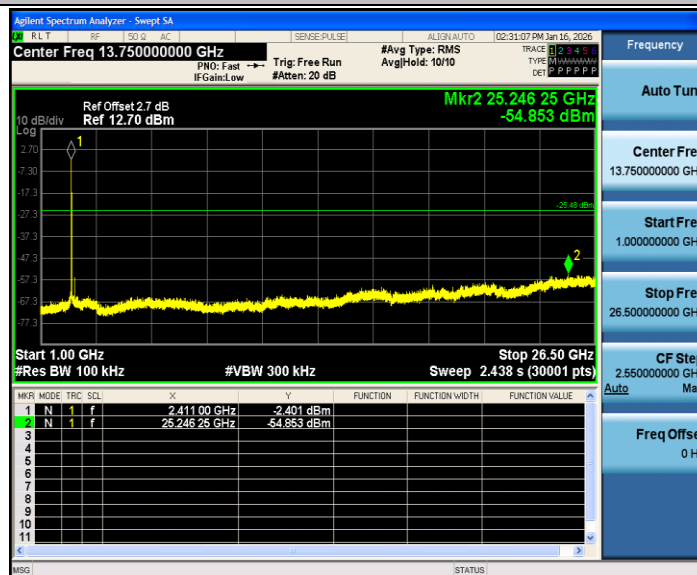
# 11AX20SISO\_Ant1\_2412\_0~Reference



# 11AX20SISO\_Ant1\_2412\_30~1000



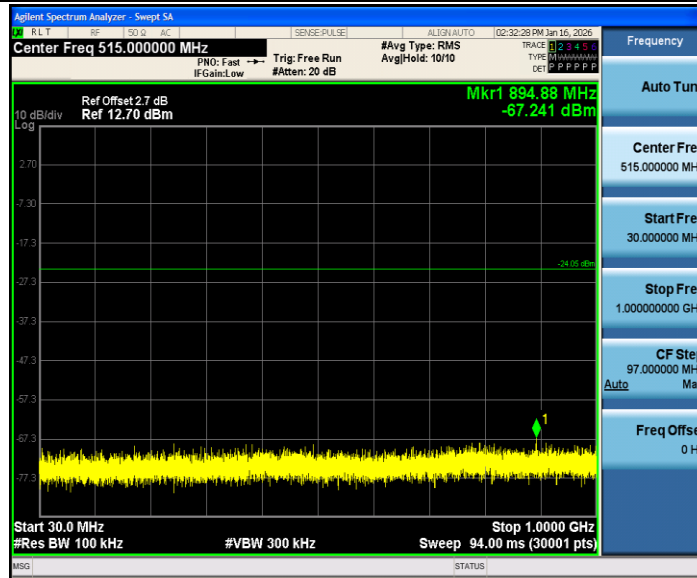
11AX20SISO\_Ant1\_2412\_1000~26500



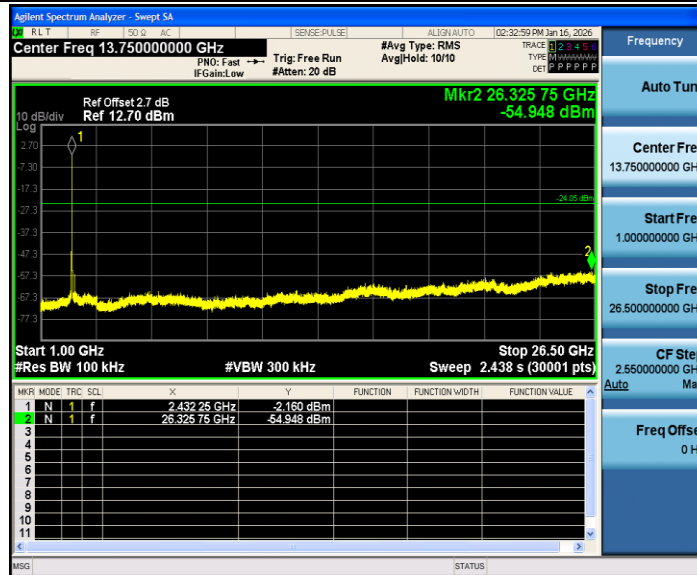
11AX20SISO\_Ant1\_2437\_0~Reference



# 11AX20SISO\_Ant1\_2437\_30~1000



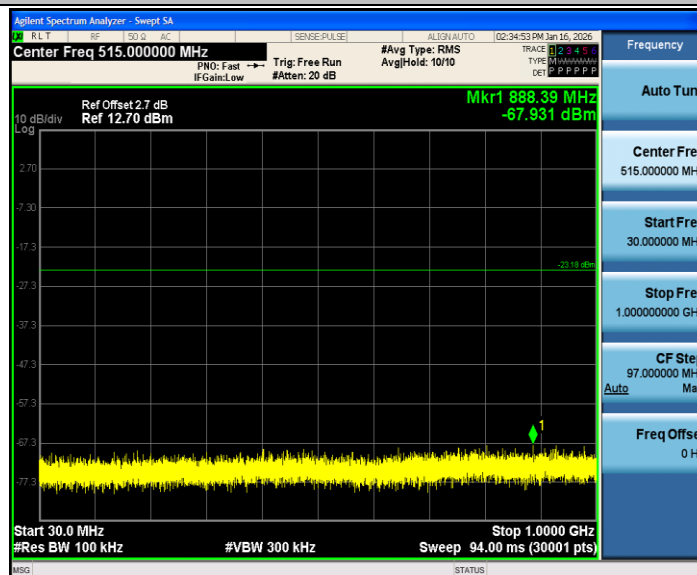
# 11AX20SISO\_Ant1\_2437\_1000~26500



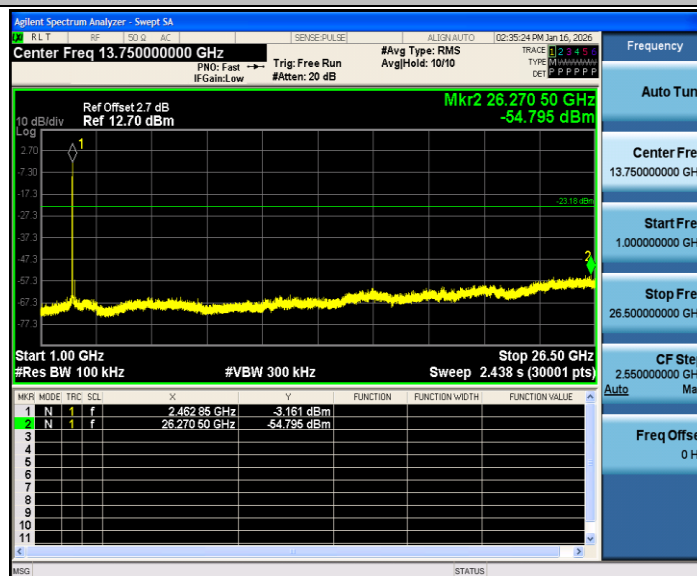
# 11AX20SISO\_Ant1\_2462\_0~Reference



11AX20SISO\_Ant1\_2462\_30~1000



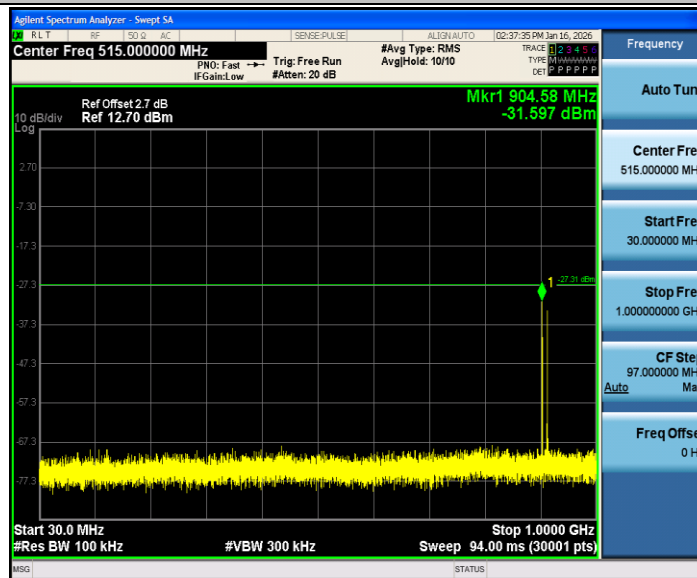
11AX20SISO\_Ant1\_2462\_1000~26500



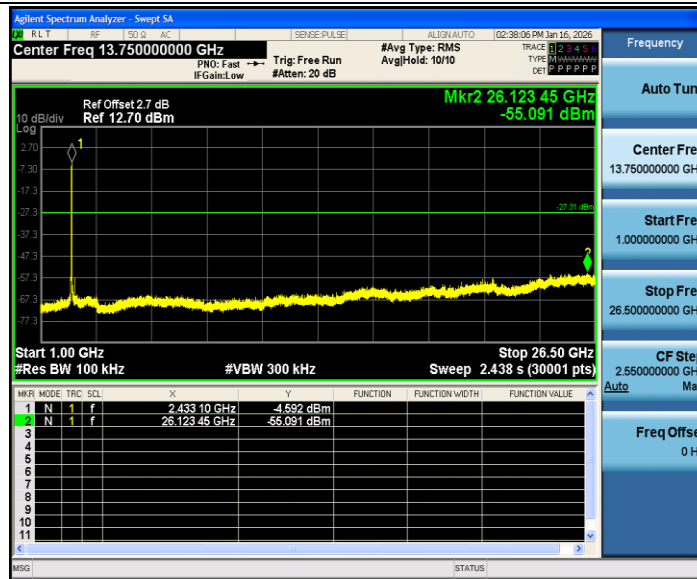
# 11AX40SISO\_Ant1\_2422\_0~Reference



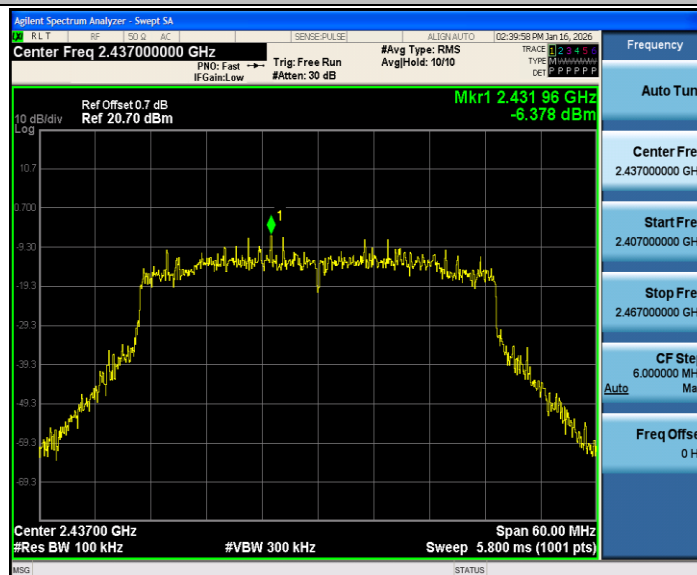
# 11AX40SISO\_Ant1\_2422\_30~1000



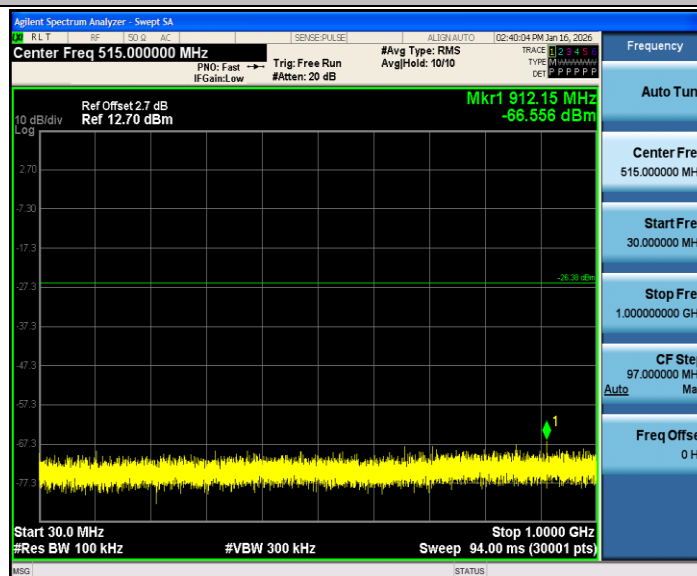
# 11AX40SISO\_Ant1\_2422\_1000~26500



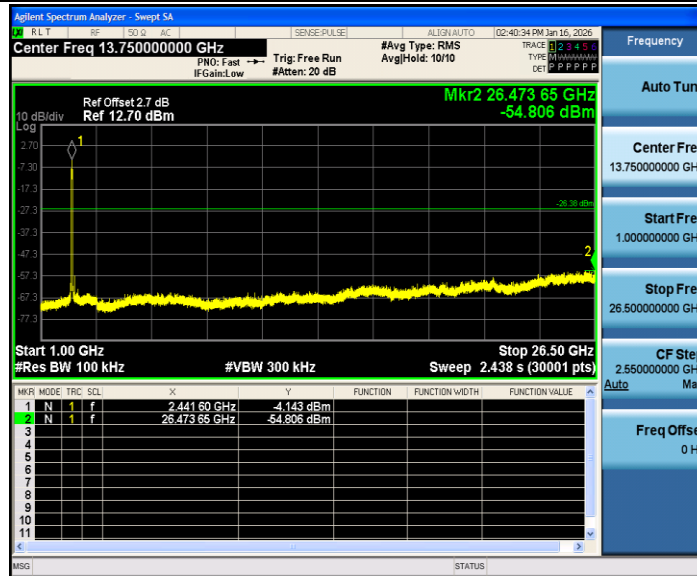
11AX40SISO\_Ant1\_2437\_0~Reference



11AX40SISO\_Ant1\_2437\_30~1000



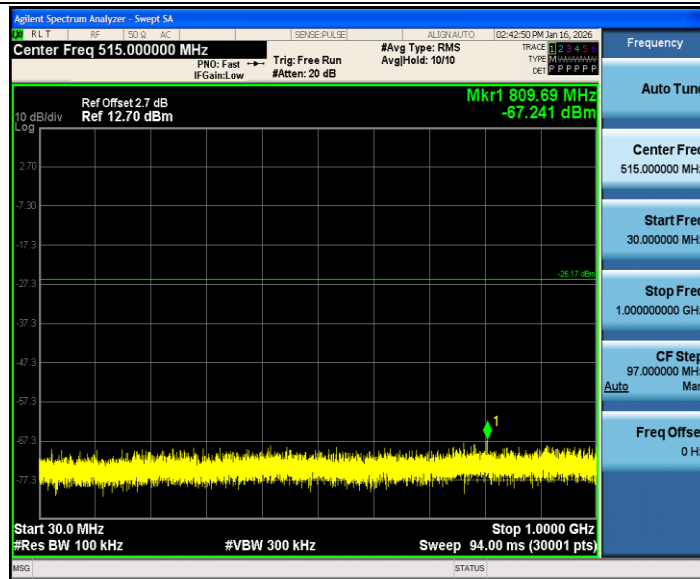
# 11AX40SISO\_Ant1\_2437\_1000~26500



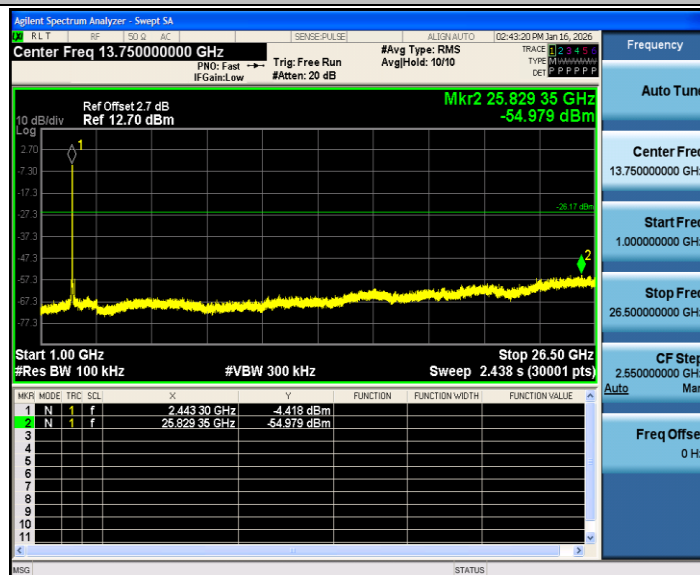
# 11AX40SISO\_Ant1\_2452\_0~Reference



# 11AX40SISO\_Ant1\_2452\_30~1000



11AX40SISO\_Ant1\_2452\_1000~26500



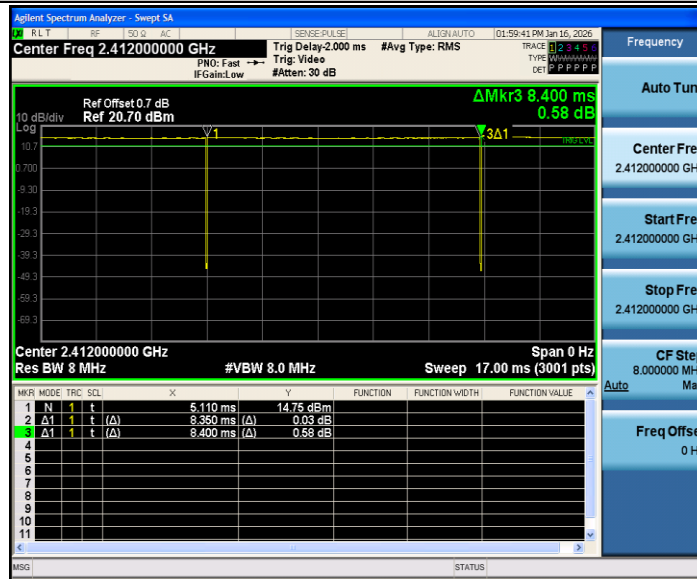
## Appendix G: Duty Cycle

### Test Result

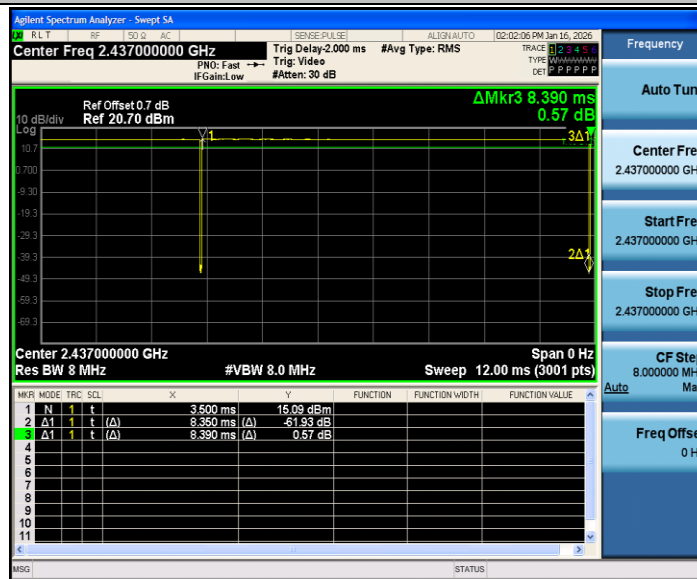
| TestMode   | Antenna | Frequency[MHz] | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | DC Factor [dB] | T Factor [dB] |
|------------|---------|----------------|----------------------------|--------------------------|----------------|----------------|---------------|
| 11B        | Ant1    | 2412           | 8.35                       | 8.40                     | 99.40          | 0.03           | 0.12          |
|            |         | 2437           | 8.35                       | 8.39                     | 99.52          | 0.02           | 0.12          |
|            |         | 2462           | 8.35                       | 8.40                     | 99.40          | 0.03           | 0.12          |
| 11G        | Ant1    | 2412           | 0.15                       | 0.20                     | 75.00          | 1.25           | 6.67          |
|            |         | 2437           | 0.15                       | 0.20                     | 75.00          | 1.25           | 6.67          |
|            |         | 2462           | 0.15                       | 0.20                     | 75.00          | 1.25           | 6.67          |
| 11N20SISO  | Ant1    | 2412           | 0.18                       | 0.23                     | 78.26          | 1.06           | 5.56          |
|            |         | 2437           | 0.18                       | 0.22                     | 81.82          | 0.87           | 5.56          |
|            |         | 2462           | 0.17                       | 0.22                     | 77.27          | 1.12           | 5.88          |
| 11N40SISO  | Ant1    | 2422           | 0.18                       | 0.23                     | 78.26          | 1.06           | 5.56          |
|            |         | 2437           | 0.18                       | 0.23                     | 78.26          | 1.06           | 5.56          |
|            |         | 2452           | 0.18                       | 0.23                     | 78.26          | 1.06           | 5.56          |
| 11AX20SISO | Ant1    | 2412           | 0.26                       | 0.30                     | 86.67          | 0.62           | 3.85          |
|            |         | 2437           | 0.26                       | 0.31                     | 83.87          | 0.76           | 3.85          |
|            |         | 2462           | 0.25                       | 0.30                     | 83.33          | 0.79           | 4.00          |
| 11AX40SISO | Ant1    | 2422           | 0.17                       | 0.22                     | 77.27          | 1.12           | 5.88          |
|            |         | 2437           | 0.18                       | 0.23                     | 78.26          | 1.06           | 5.56          |
|            |         | 2452           | 0.18                       | 0.22                     | 81.82          | 0.87           | 5.56          |

## Test Graphs

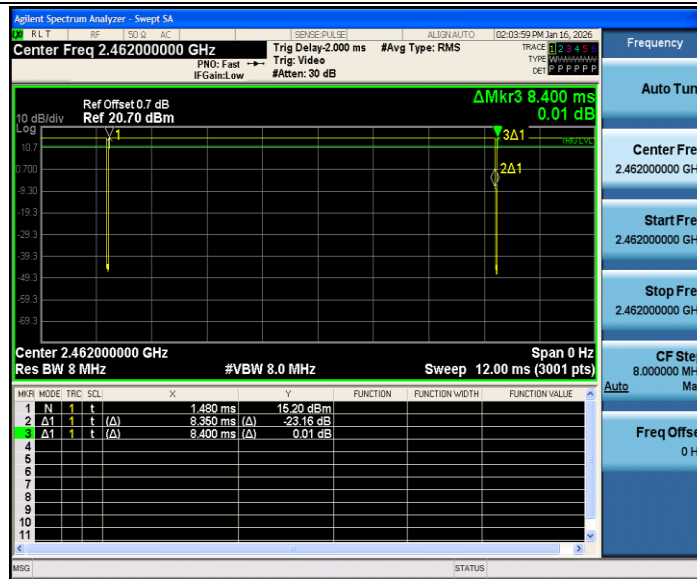
11B\_Ant1\_2412



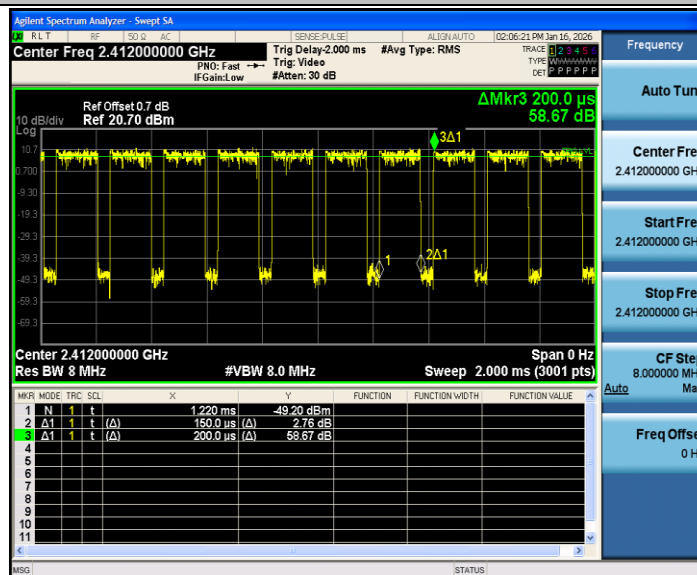
11B\_Ant1\_2437



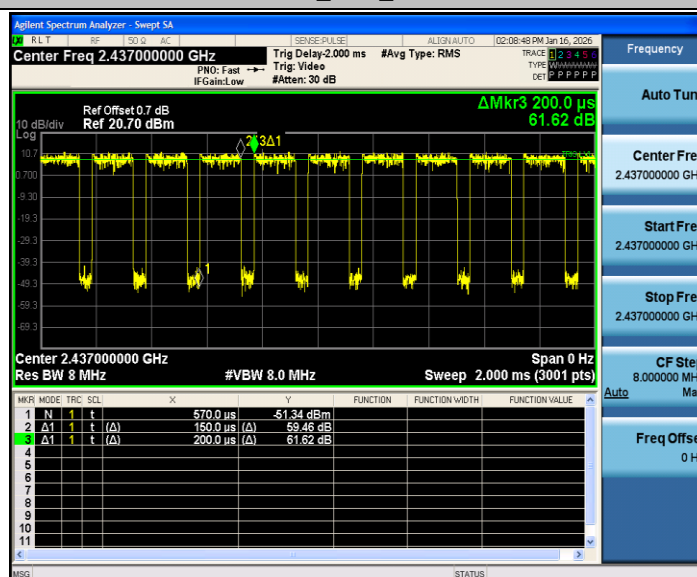
11B\_Ant1\_2462



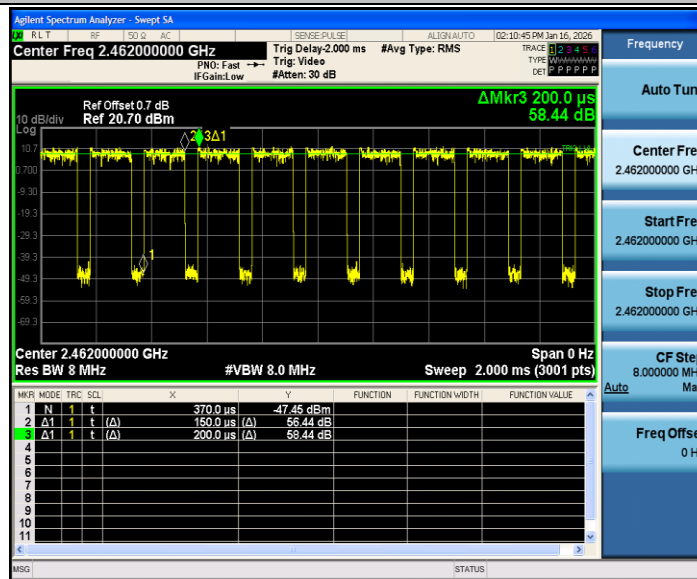
11G\_Ant1\_2412



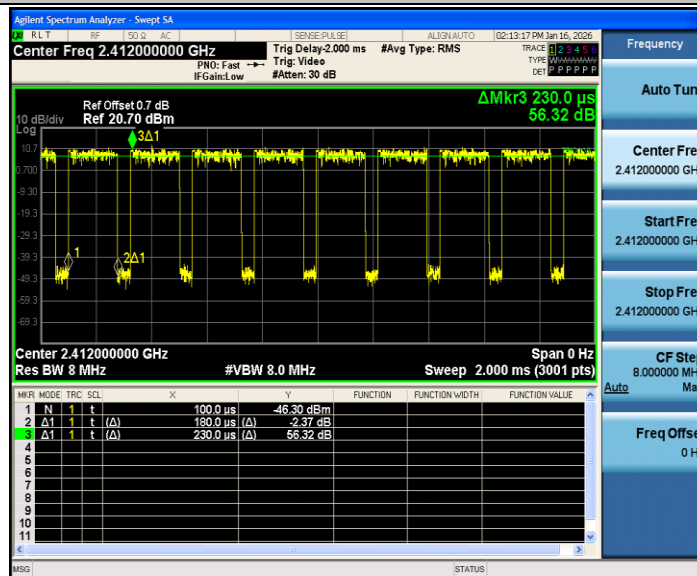
11G\_Ant1\_2437



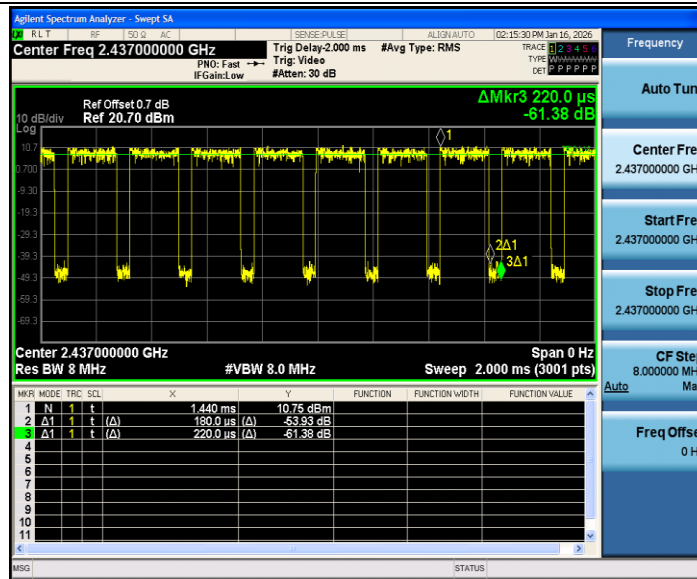
# 11G\_Ant1\_2462



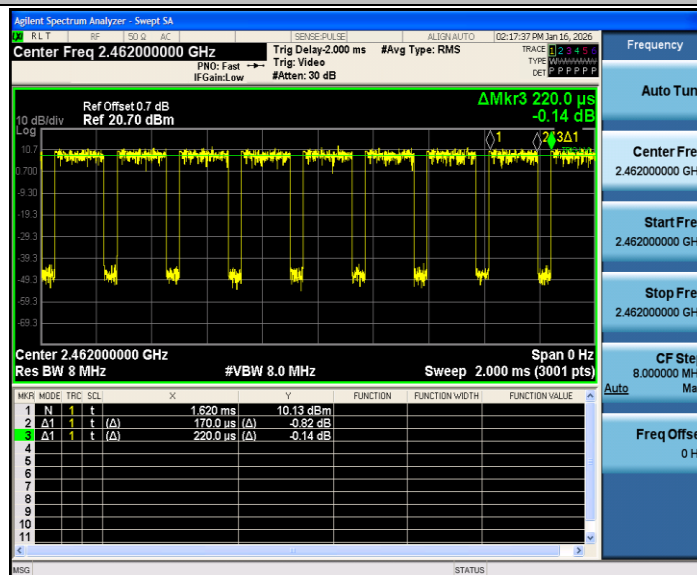
# 11N20SISO\_Ant1\_2412



# 11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422

