

|                                                                       |                                         |
|-----------------------------------------------------------------------|-----------------------------------------|
| <b>Case No. :</b> <u>GTS20230111005-1-12</u>                          |                                         |
| <b>Ambient Condition:</b> <u>25</u> °C, <u>45</u> %RH, Atmos100.1Kpa, |                                         |
| <b>Test Date:</b> <u>2023.2.17</u>                                    | <b>Test Engineer:</b> <u>Jenny zeng</u> |

## Appendix C.1: DTS Bandwidth

### Test Result

| TestMode  | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412           | 10.080       | 2406.960 | 2417.040 | 0.5        | PASS    |
|           |         | 2437           | 10.080       | 2431.960 | 2442.040 | 0.5        | PASS    |
|           |         | 2462           | 10.080       | 2456.960 | 2467.040 | 0.5        | PASS    |
| 11G       | Ant1    | 2412           | 16.400       | 2403.800 | 2420.200 | 0.5        | PASS    |
|           |         | 2437           | 16.400       | 2428.800 | 2445.200 | 0.5        | PASS    |
|           |         | 2462           | 16.400       | 2453.800 | 2470.200 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 2412           | 17.600       | 2403.200 | 2420.800 | 0.5        | PASS    |
|           |         | 2437           | 17.600       | 2428.200 | 2445.800 | 0.5        | PASS    |
|           |         | 2462           | 17.600       | 2453.200 | 2470.800 | 0.5        | PASS    |
| 11N40SISO | Ant1    | 2422           | 36.320       | 2403.840 | 2440.160 | 0.5        | PASS    |
|           |         | 2437           | 36.320       | 2418.840 | 2455.160 | 0.5        | PASS    |
|           |         | 2452           | 36.320       | 2433.840 | 2470.160 | 0.5        | PASS    |

## Test Graphs

11B\_Ant1\_2412



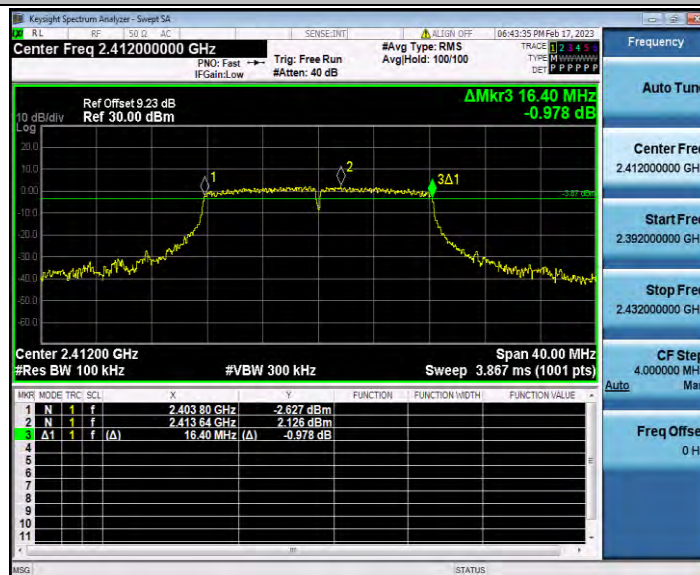
11B\_Ant1\_2437



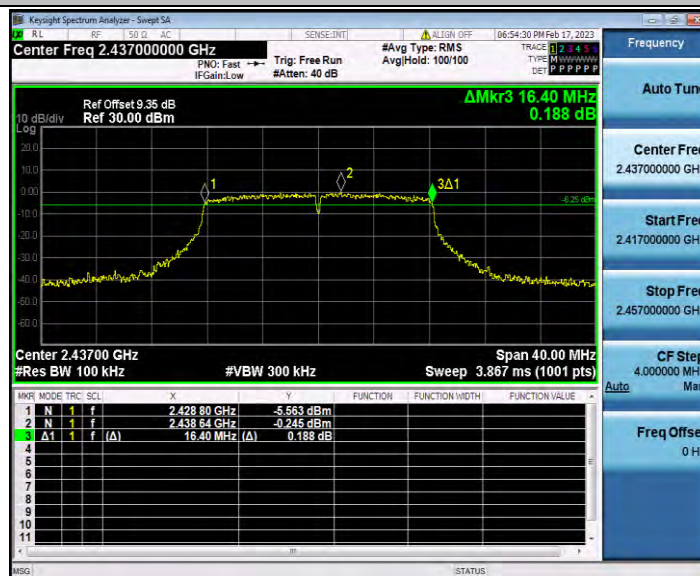
11B\_Ant1\_2462



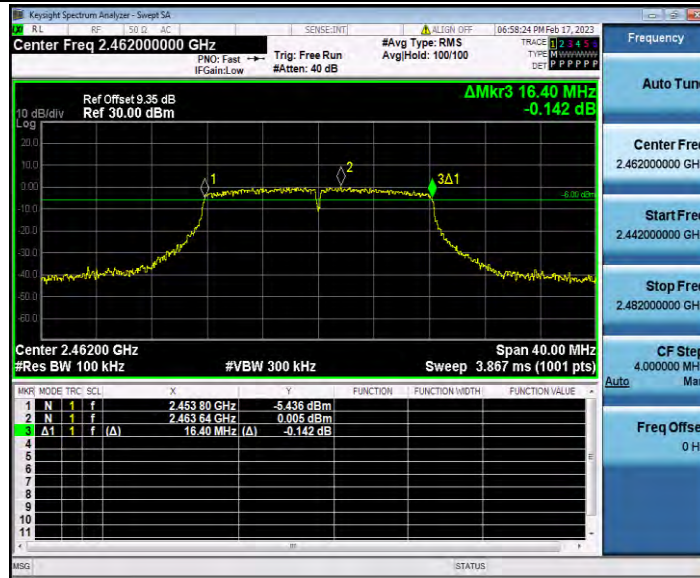
11G\_Ant1\_2412



11G\_Ant1\_2437



# 11G\_Ant1\_2462

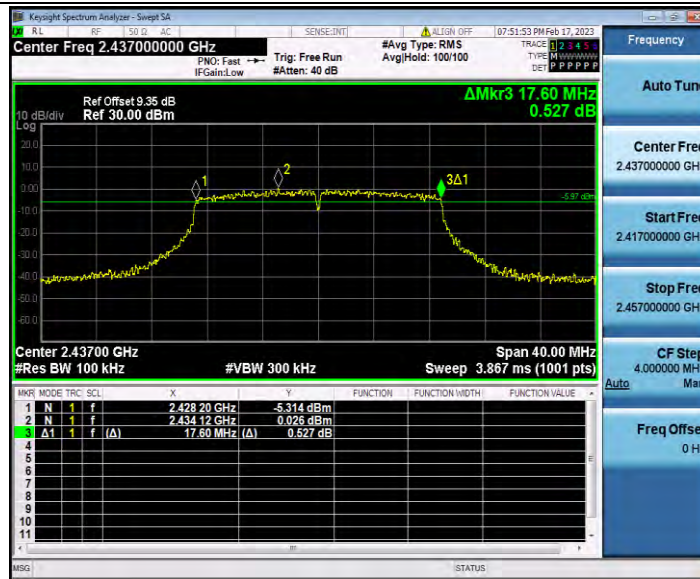


# 11N20SISO\_Ant1\_2412

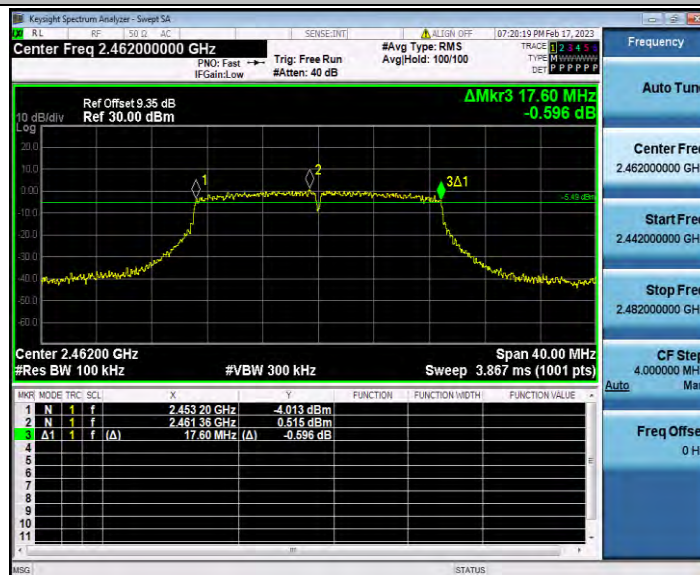


# 11N20SISO\_Ant1\_2437

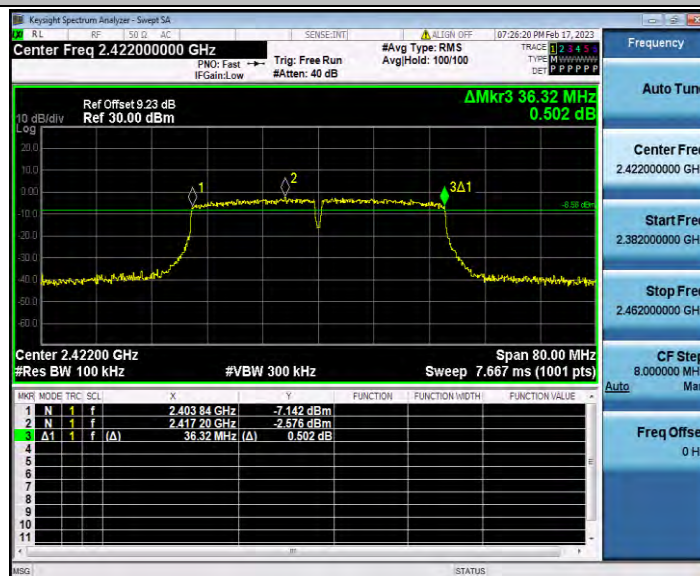




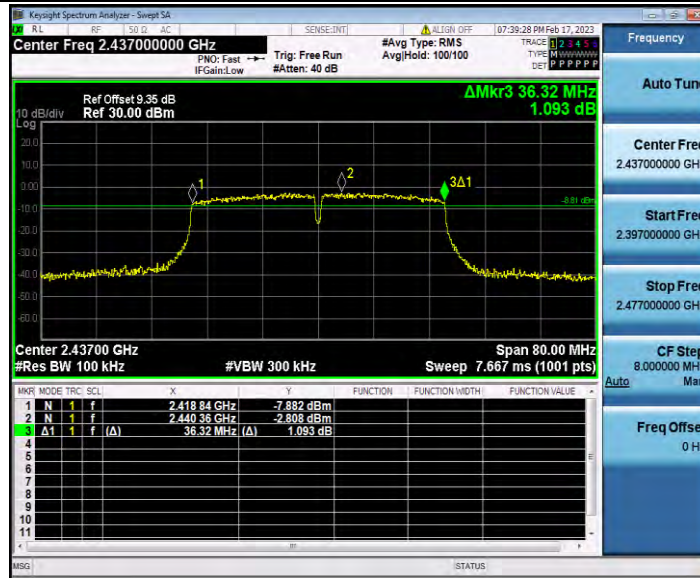
11N20SISO\_Ant1\_2462



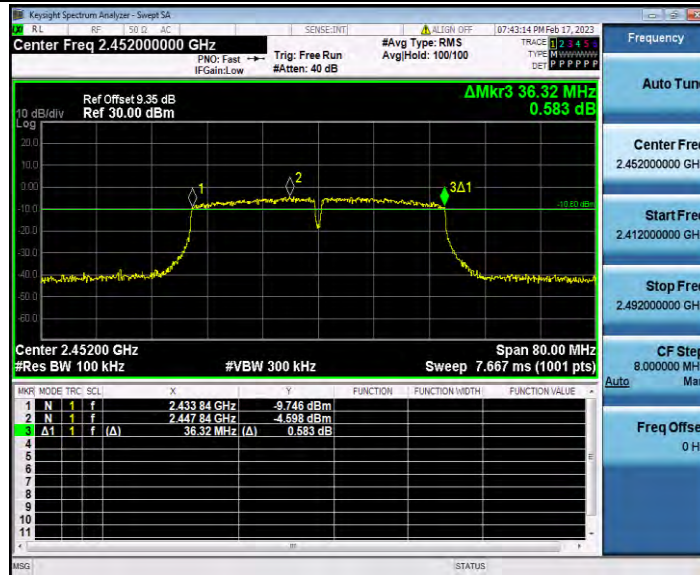
11N40SISO\_Ant1\_2422



# 11N40SISO\_Ant1\_2437



# 11N40SISO\_Ant1\_2452



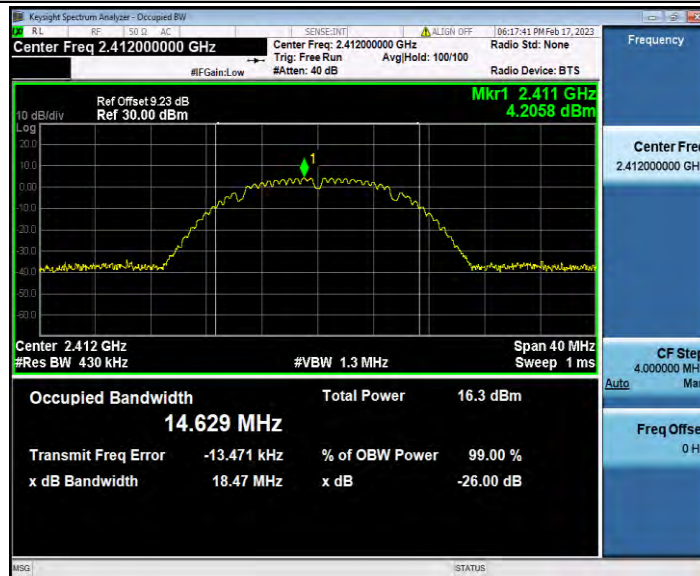
## Appendix C.2: Occupied Channel Bandwidth

### Test Result

| TestMode  | Antenna | Channel<br>Frequency[MHz] | OCB<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|---------------------------|--------------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412                      | 14.629       | 2404.672 | 2419.301 | ---        | ---     |
|           |         | 2437                      | 14.630       | 2429.744 | 2444.374 | ---        | ---     |
|           |         | 2462                      | 14.614       | 2454.674 | 2469.288 | ---        | ---     |
| 11G       | Ant1    | 2412                      | 16.714       | 2403.596 | 2420.310 | ---        | ---     |
|           |         | 2437                      | 16.735       | 2428.601 | 2445.336 | ---        | ---     |
|           |         | 2462                      | 16.683       | 2453.589 | 2470.272 | ---        | ---     |
| 11N20SISO | Ant1    | 2412                      | 17.885       | 2403.069 | 2420.954 | ---        | ---     |
|           |         | 2437                      | 17.897       | 2428.075 | 2445.972 | ---        | ---     |
|           |         | 2462                      | 17.851       | 2453.062 | 2470.913 | ---        | ---     |
| 11N40SISO | Ant1    | 2422                      | 36.234       | 2403.954 | 2440.188 | ---        | ---     |
|           |         | 2437                      | 36.220       | 2418.983 | 2455.203 | ---        | ---     |
|           |         | 2452                      | 36.133       | 2433.992 | 2470.125 | ---        | ---     |

## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437

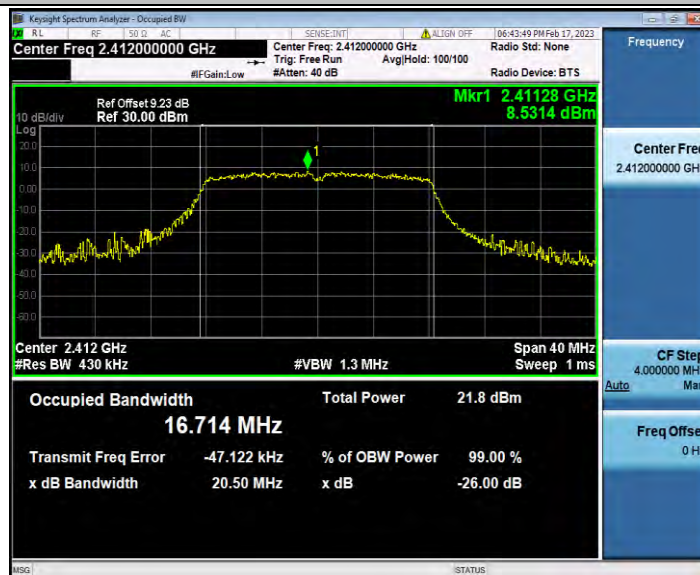


11B\_Ant1\_2462

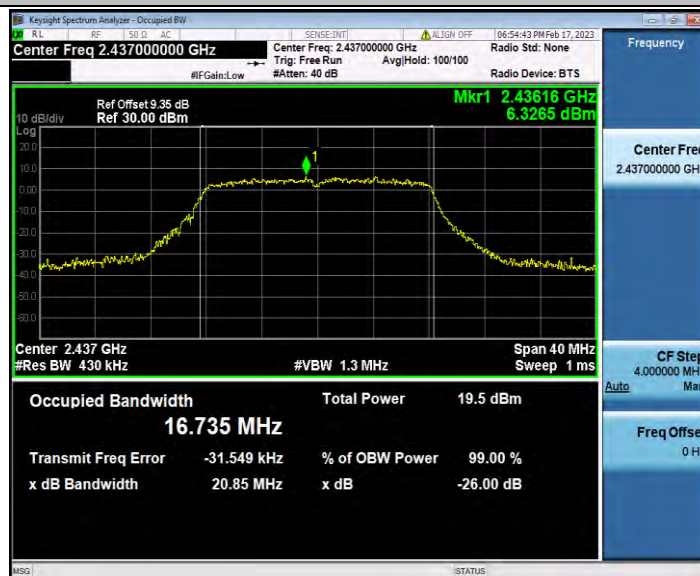




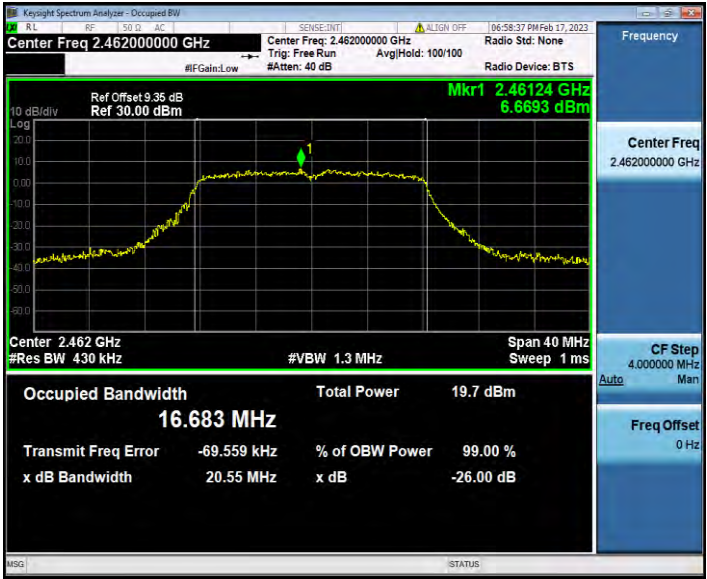
11G\_Ant1\_2412



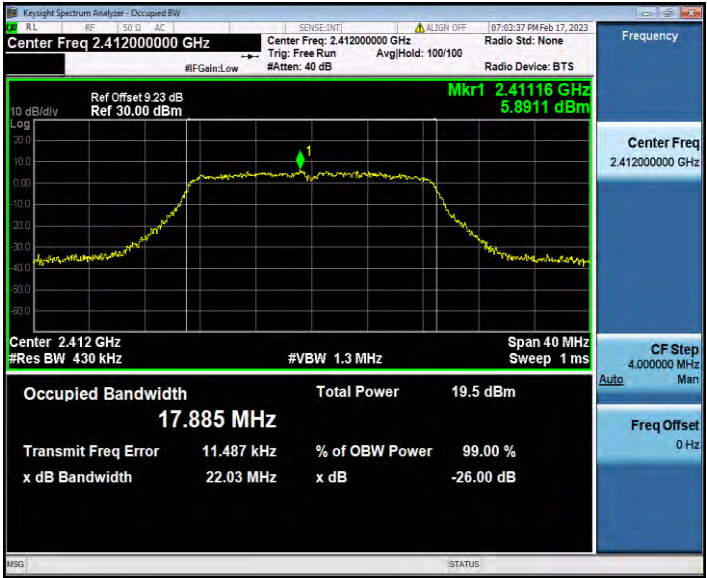
11G\_Ant1\_2437



11G\_Ant1\_2462



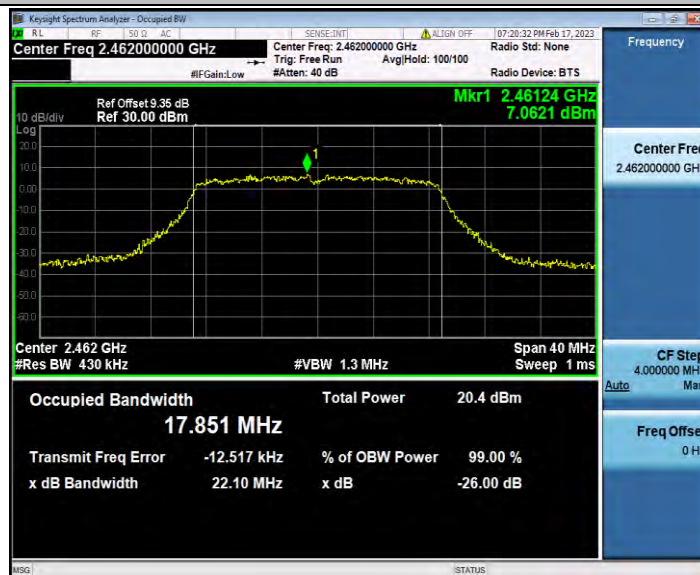
11N20SISO\_Ant1\_2412



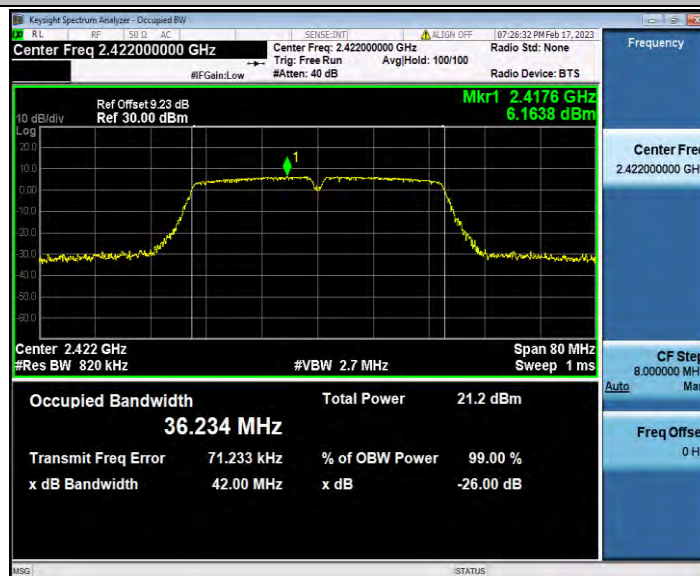
11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462



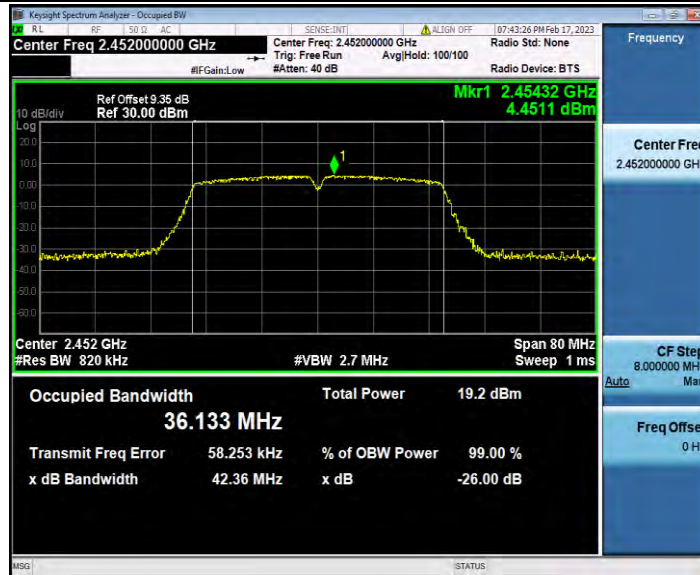
11N40SISO\_Ant1\_2422



# 11N40SISO\_Ant1\_2437



# 11N40SISO\_Ant1\_2452



## Appendix C.3: Maximum conducted output power

### Test Result Peak

| TestMode  | Antenna | Frequency[MHz] | Peak Power[dBm] | Conducted Limit[dBm] | Verdict |
|-----------|---------|----------------|-----------------|----------------------|---------|
| 11B       | Ant1    | 2412           | 16.14           | ≤30.00               | PASS    |
|           |         | 2437           | 15.97           | ≤30.00               | PASS    |
|           |         | 2462           | 16.32           | ≤30.00               | PASS    |
| 11G       | Ant1    | 2412           | 22.90           | ≤30.00               | PASS    |
|           |         | 2437           | 20.68           | ≤30.00               | PASS    |
|           |         | 2462           | 20.98           | ≤30.00               | PASS    |
| 11N20SISO | Ant1    | 2412           | 20.87           | ≤30.00               | PASS    |
|           |         | 2437           | 21.01           | ≤30.00               | PASS    |
|           |         | 2462           | 21.85           | ≤30.00               | PASS    |
| 11N40SISO | Ant1    | 2422           | 21.48           | ≤30.00               | PASS    |
|           |         | 2437           | 21.41           | ≤30.00               | PASS    |
|           |         | 2452           | 19.55           | ≤30.00               | PASS    |



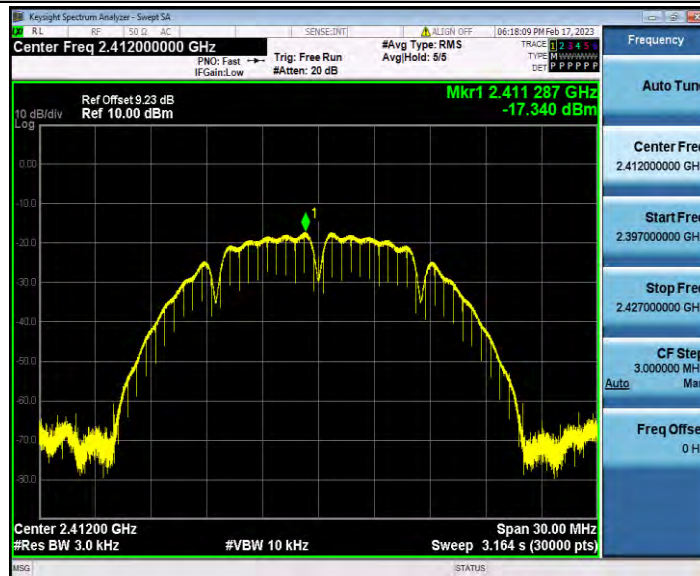
## Appendix C.4: Maximum power spectral density

### Test Result

| TestMode  | Antenna | Frequency[MHz] | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|----------------|----------------------|-----------------|---------|
| 11B       | Ant1    | 2412           | -17.34               | ≤8.00           | PASS    |
|           |         | 2437           | -17.34               | ≤8.00           | PASS    |
|           |         | 2462           | -17.09               | ≤8.00           | PASS    |
| 11G       | Ant1    | 2412           | -12.21               | ≤8.00           | PASS    |
|           |         | 2437           | -14.34               | ≤8.00           | PASS    |
|           |         | 2462           | -14.15               | ≤8.00           | PASS    |
| 11N20SISO | Ant1    | 2412           | -14.05               | ≤8.00           | PASS    |
|           |         | 2437           | -13.63               | ≤8.00           | PASS    |
|           |         | 2462           | -13.02               | ≤8.00           | PASS    |
| 11N40SISO | Ant1    | 2422           | -14.32               | ≤8.00           | PASS    |
|           |         | 2437           | -14.02               | ≤8.00           | PASS    |
|           |         | 2452           | -17.41               | ≤8.00           | PASS    |

## Test Graphs

11B\_Ant1\_2412



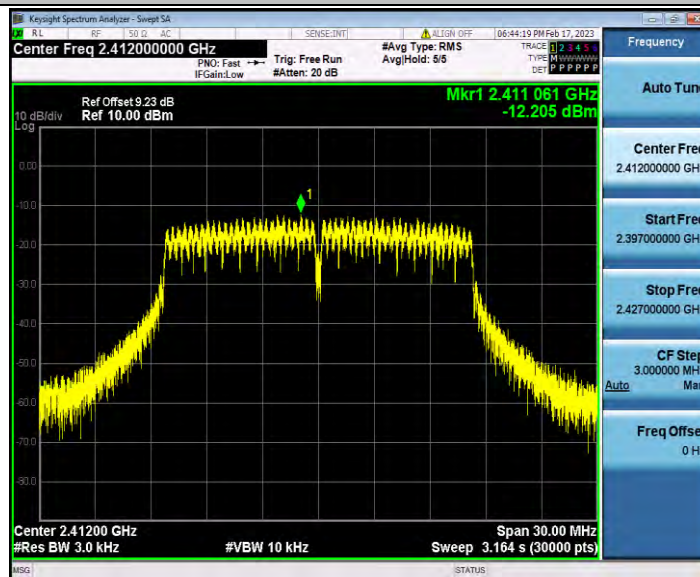
11B\_Ant1\_2437



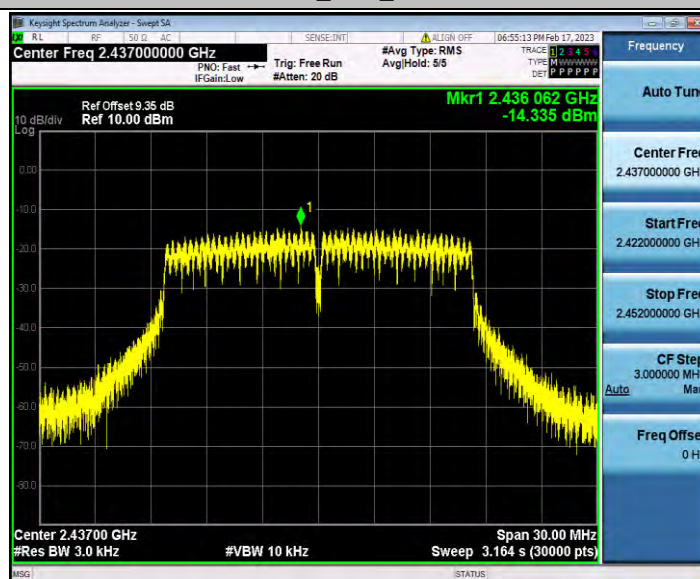
11B\_Ant1\_2462



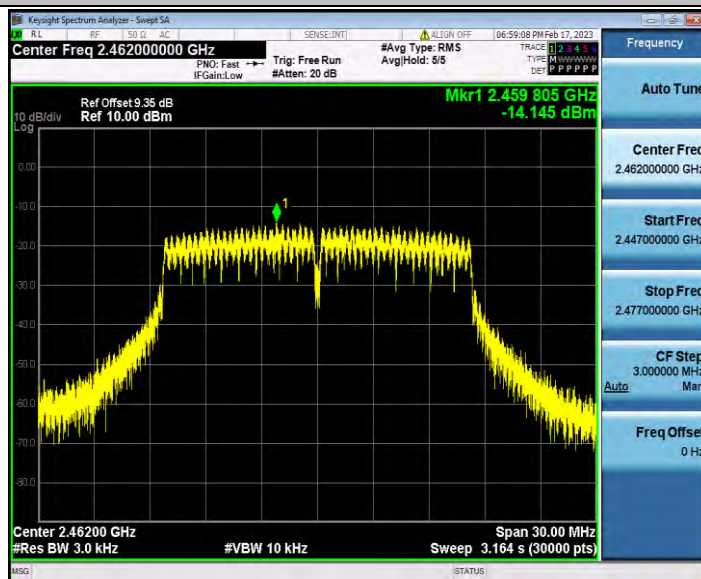
11G\_Ant1\_2412



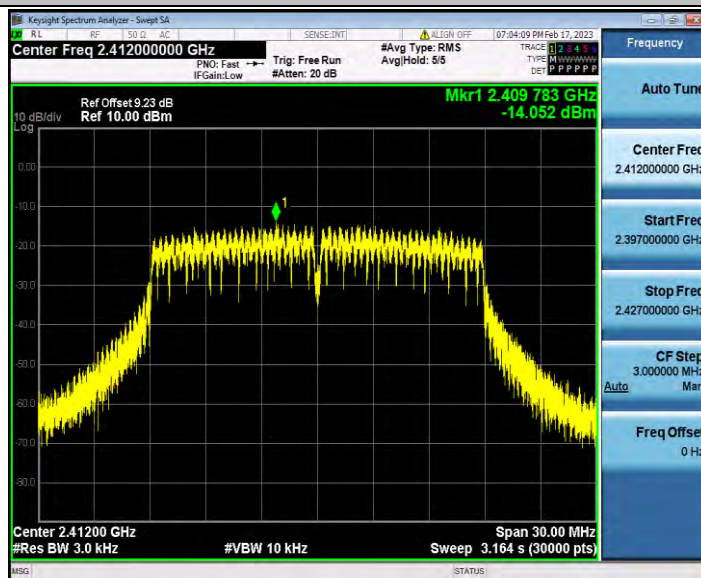
11G\_Ant1\_2437



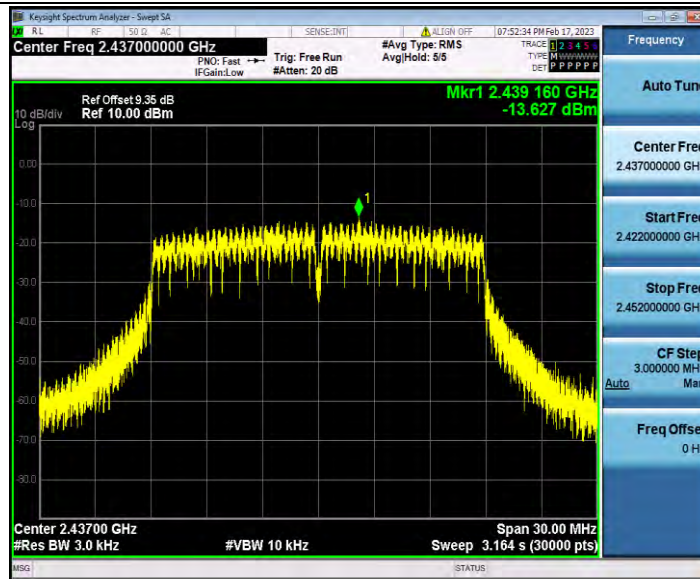
# 11G\_Ant1\_2462



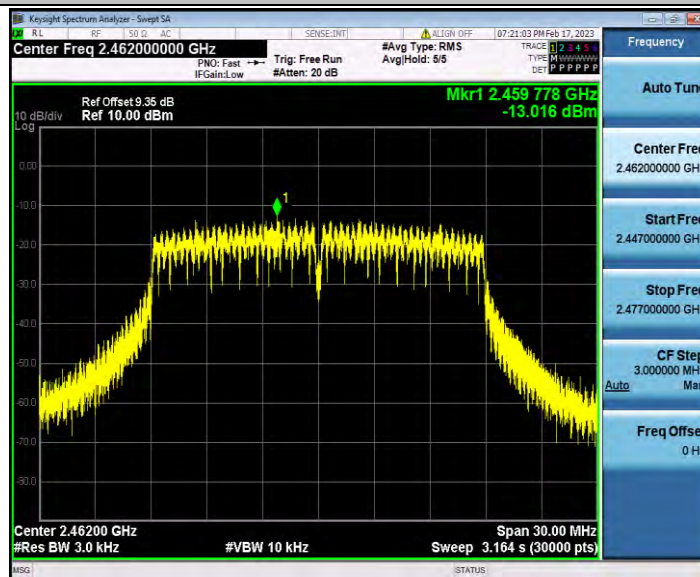
# 11N20SISO\_Ant1\_2412



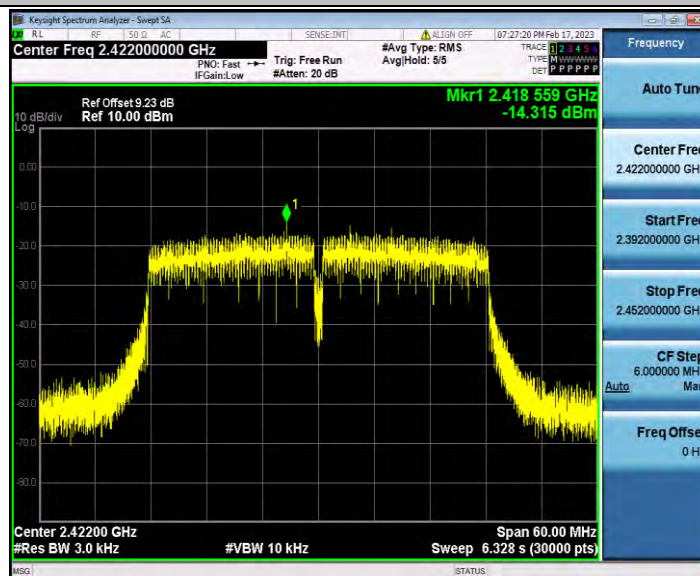
# 11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462

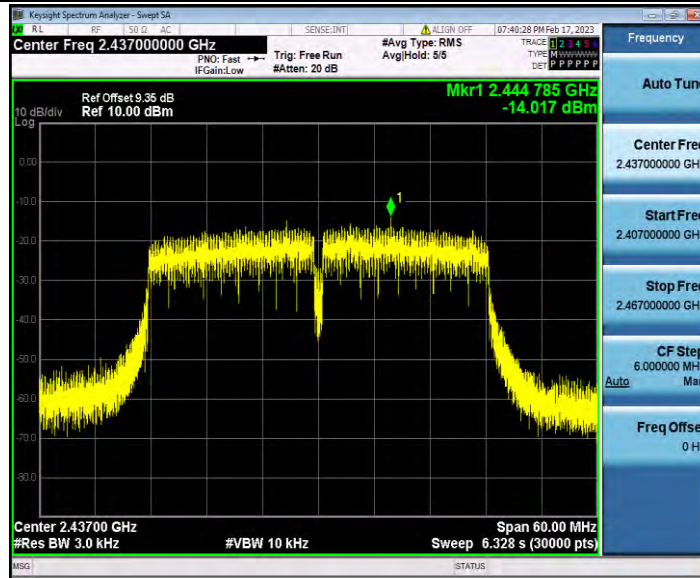


11N40SISO\_Ant1\_2422

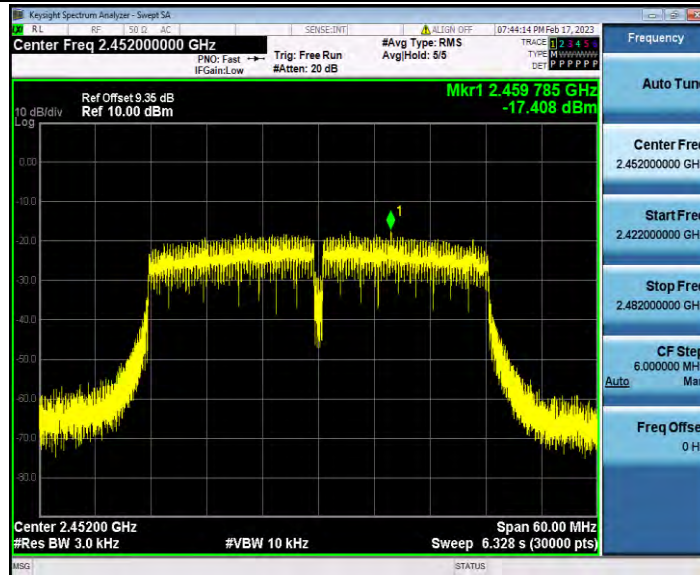




# 11N40SISO\_Ant1\_2437



# 11N40SISO\_Ant1\_2452



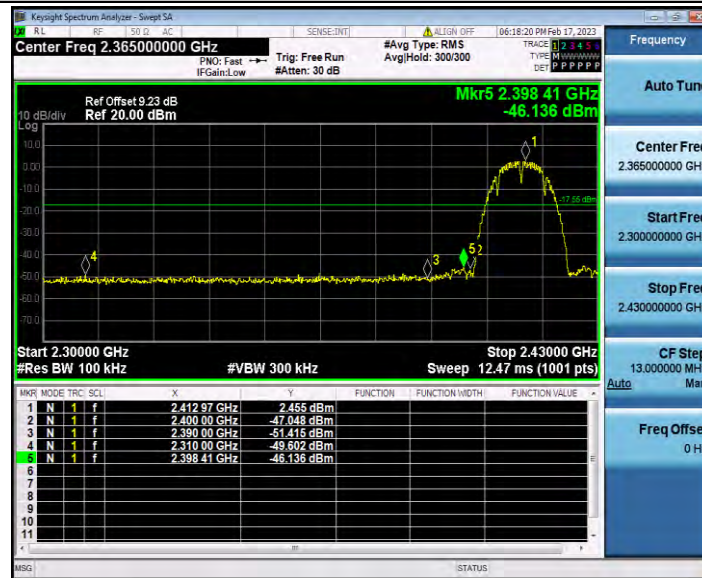
## Appendix C.5: Band edge measurements

### Test Result

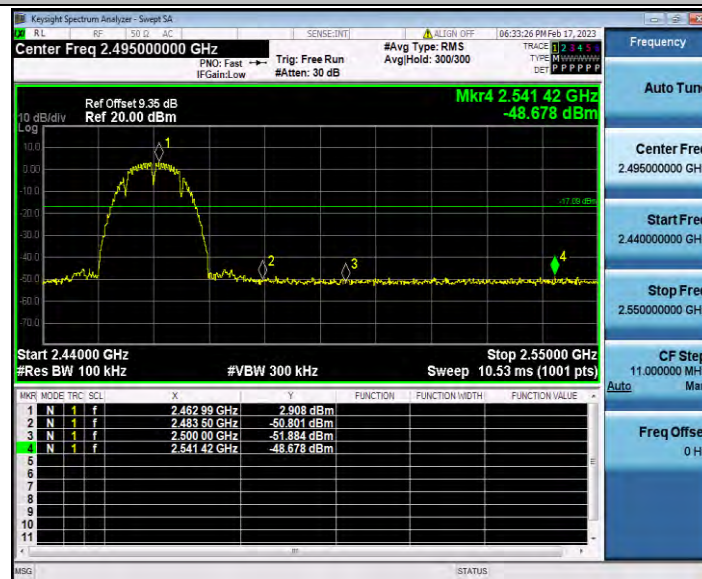
| TestMode  | Antenna | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------|----------------|---------------|-------------|------------|---------|
| 11B       | Ant1    | Low    | 2412           | 2.46          | -46.14      | ≤-17.55    | PASS    |
|           |         | High   | 2462           | 2.91          | -48.68      | ≤-17.09    | PASS    |
| 11G       | Ant1    | Low    | 2412           | 1.65          | -29.33      | ≤-18.35    | PASS    |
|           |         | High   | 2462           | 0.04          | -47.46      | ≤-19.96    | PASS    |
| 11N20SISO | Ant1    | Low    | 2412           | -0.49         | -35.21      | ≤-20.49    | PASS    |
|           |         | High   | 2462           | 0.80          | -45.43      | ≤-19.2     | PASS    |
| 11N40SISO | Ant1    | Low    | 2422           | -2.89         | -35.11      | ≤-22.89    | PASS    |
|           |         | High   | 2452           | -4.42         | -44.37      | ≤-24.42    | PASS    |

## Test Graphs

11B\_Ant1\_Low\_2412



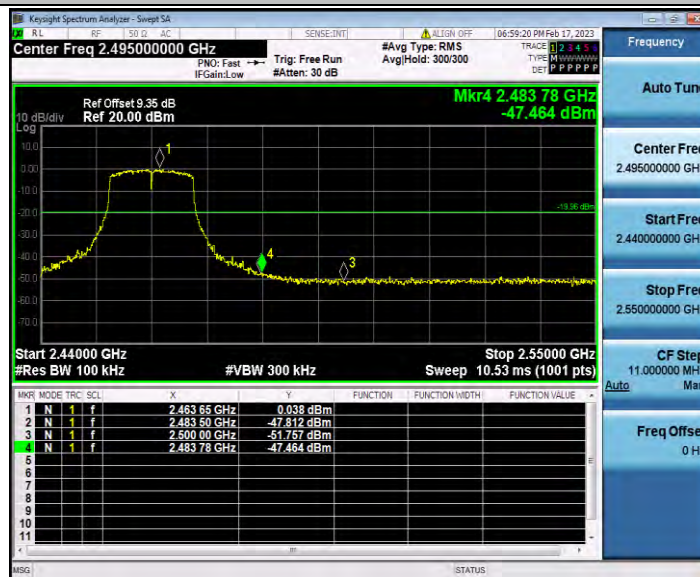
11B\_Ant1\_High\_2462



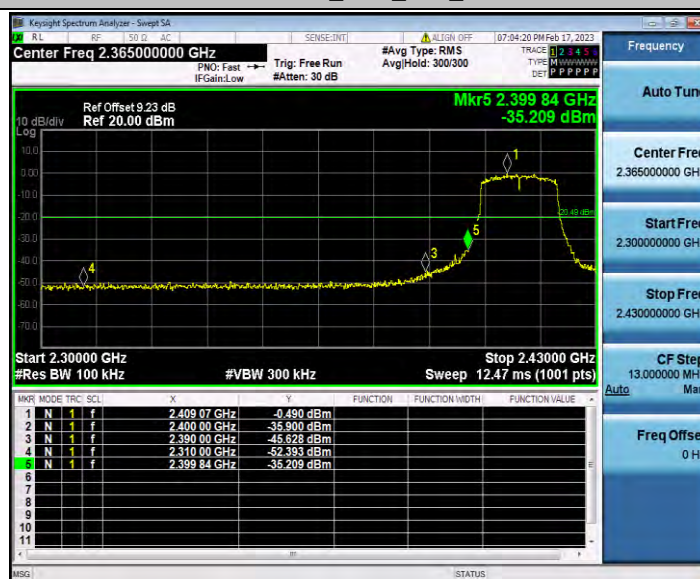
11G\_Ant1\_Low\_2412



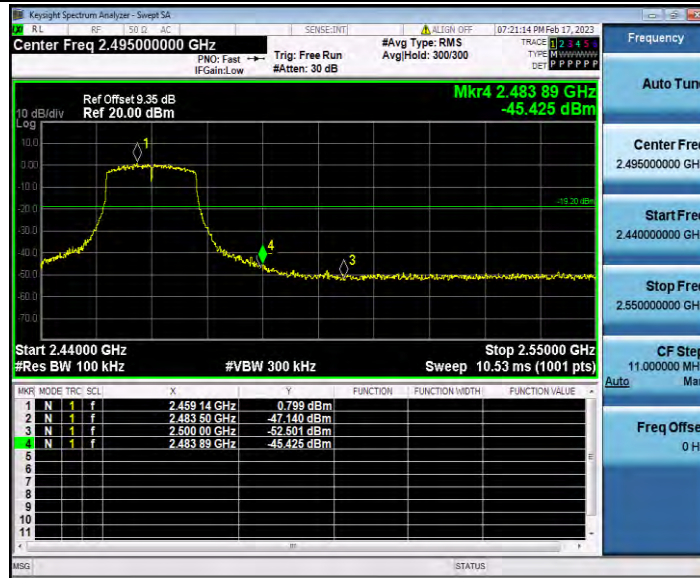
11G\_Ant1\_High\_2462



11N20SISO\_Ant1\_Low\_2412



# 11N20SISO\_Ant1\_High\_2462



# 11N40SISO\_Ant1\_Low\_2422



# 11N40SISO\_Ant1\_High\_2452





## Appendix C.6: Conducted Spurious Emission

### Test Result

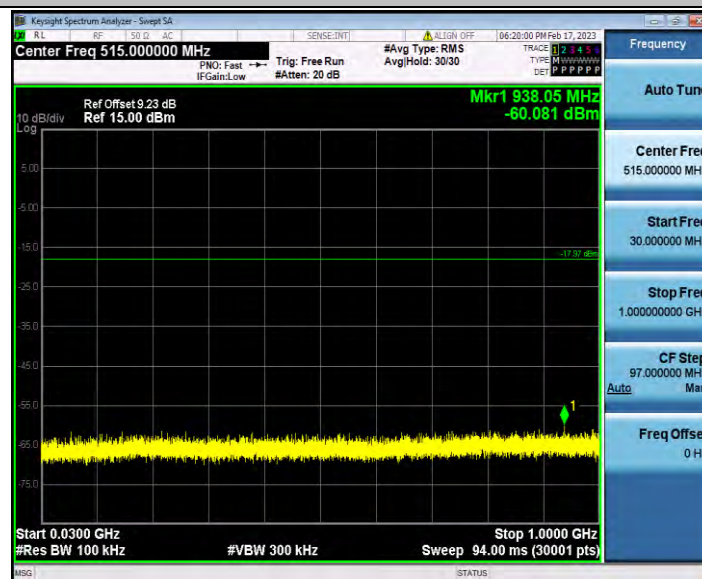
| TestMode  | Antenna | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm]   | Verdict |
|-----------|---------|----------------|-----------------|----------------|--------------|---------------|---------|
| 11B       | Ant1    | 2412           | Reference       | 2.03           | 2.03         | ---           | PASS    |
|           |         |                | 30~1000         | 2.03           | -60.08       | $\leq -17.97$ | PASS    |
|           |         |                | 1000~26500      | 2.03           | -47.17       | $\leq -17.97$ | PASS    |
|           |         | 2437           | Reference       | 2.35           | 2.35         | ---           | PASS    |
|           |         |                | 30~1000         | 2.35           | -60          | $\leq -17.65$ | PASS    |
|           |         |                | 1000~26500      | 2.35           | -47.8        | $\leq -17.65$ | PASS    |
|           |         | 2462           | Reference       | 2.57           | 2.57         | ---           | PASS    |
|           |         |                | 30~1000         | 2.57           | -59.73       | $\leq -17.43$ | PASS    |
|           |         |                | 1000~26500      | 2.57           | -45.02       | $\leq -17.43$ | PASS    |
| 11G       | Ant1    | 2412           | Reference       | 1.05           | 1.05         | ---           | PASS    |
|           |         |                | 30~1000         | 1.05           | -60.21       | $\leq -18.95$ | PASS    |
|           |         |                | 1000~26500      | 1.05           | -47.99       | $\leq -18.95$ | PASS    |
|           |         | 2437           | Reference       | -0.79          | -0.79        | ---           | PASS    |
|           |         |                | 30~1000         | -0.79          | -59.51       | $\leq -20.79$ | PASS    |
|           |         |                | 1000~26500      | -0.79          | -47.34       | $\leq -20.79$ | PASS    |
|           |         | 2462           | Reference       | -0.50          | -0.50        | ---           | PASS    |
|           |         |                | 30~1000         | -0.50          | -60.32       | $\leq -20.5$  | PASS    |
|           |         |                | 1000~26500      | -0.50          | -47.53       | $\leq -20.5$  | PASS    |
| 11N20SISO | Ant1    | 2412           | Reference       | -1.10          | -1.10        | ---           | PASS    |
|           |         |                | 30~1000         | -1.10          | -59.54       | $\leq -21.1$  | PASS    |
|           |         |                | 1000~26500      | -1.10          | -44.12       | $\leq -21.1$  | PASS    |
|           |         | 2437           | Reference       | -0.63          | -0.63        | ---           | PASS    |
|           |         |                | 30~1000         | -0.63          | -59.97       | $\leq -20.63$ | PASS    |
|           |         |                | 1000~26500      | -0.63          | -47.79       | $\leq -20.63$ | PASS    |
|           |         | 2462           | Reference       | -0.55          | -0.55        | ---           | PASS    |
|           |         |                | 30~1000         | -0.55          | -60.44       | $\leq -20.55$ | PASS    |
|           |         |                | 1000~26500      | -0.55          | -47.27       | $\leq -20.55$ | PASS    |
| 11N40SISO | Ant1    | 2422           | Reference       | -3.83          | -3.83        | ---           | PASS    |
|           |         |                | 30~1000         | -3.83          | -59.49       | $\leq -23.83$ | PASS    |
|           |         |                | 1000~26500      | -3.83          | -46.82       | $\leq -23.83$ | PASS    |
|           |         | 2437           | Reference       | -2.83          | -2.83        | ---           | PASS    |
|           |         |                | 30~1000         | -2.83          | -59.39       | $\leq -22.83$ | PASS    |
|           |         |                | 1000~26500      | -2.83          | -47.66       | $\leq -22.83$ | PASS    |
|           |         | 2452           | Reference       | -4.91          | -4.91        | ---           | PASS    |
|           |         |                | 30~1000         | -4.91          | -60.41       | $\leq -24.91$ | PASS    |
|           |         |                | 1000~26500      | -4.91          | -47.49       | $\leq -24.91$ | PASS    |

## Test Graphs

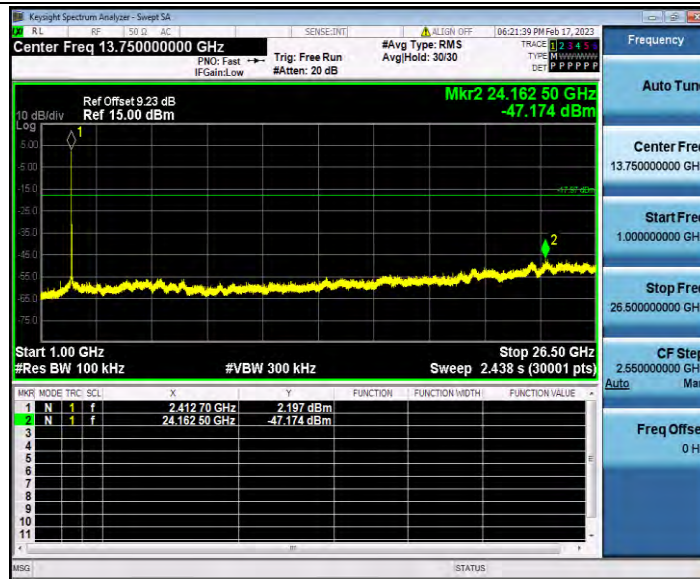
11B\_Ant1\_2412\_0~Reference



11B\_Ant1\_2412\_30~1000



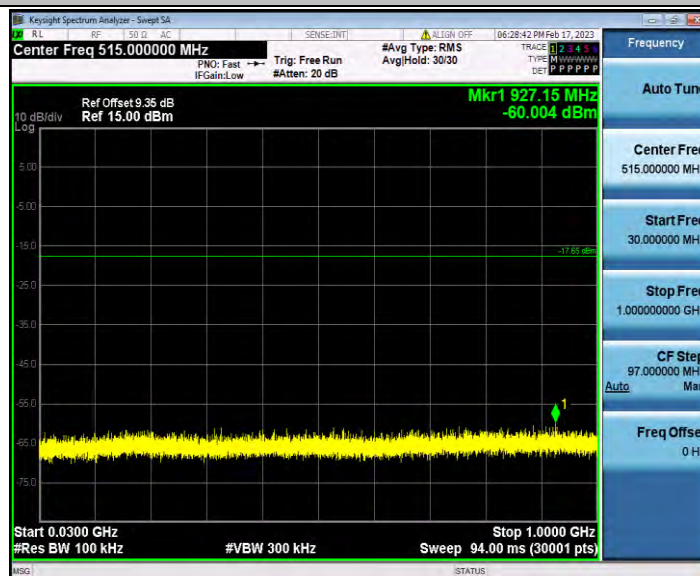
11B\_Ant1\_2412\_1000~26500



11B\_Ant1\_2437\_0~Reference



11B\_Ant1\_2437\_30~1000



# 11B\_Ant1\_2437\_1000~26500

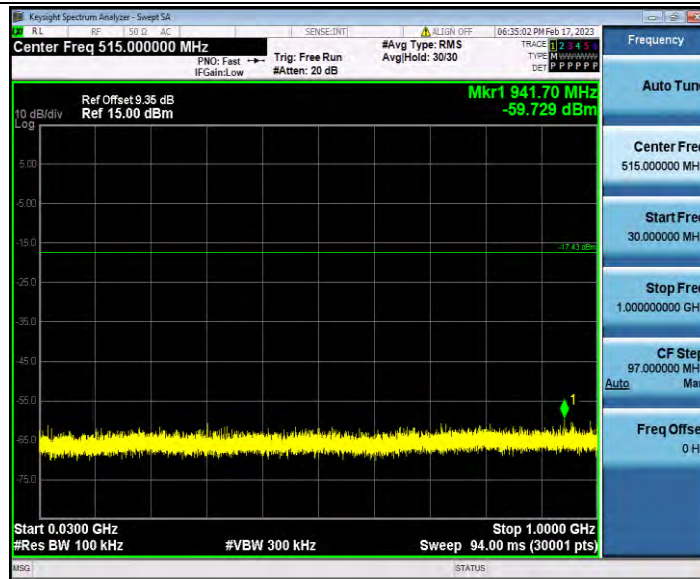


# 11B\_Ant1\_2462\_0~Reference



# 11B\_Ant1\_2462\_30~1000





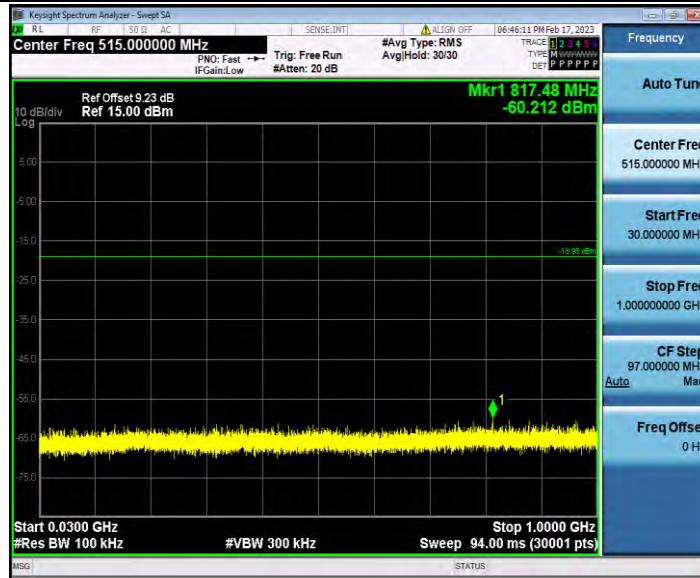
11B\_Ant1\_2462\_1000~26500



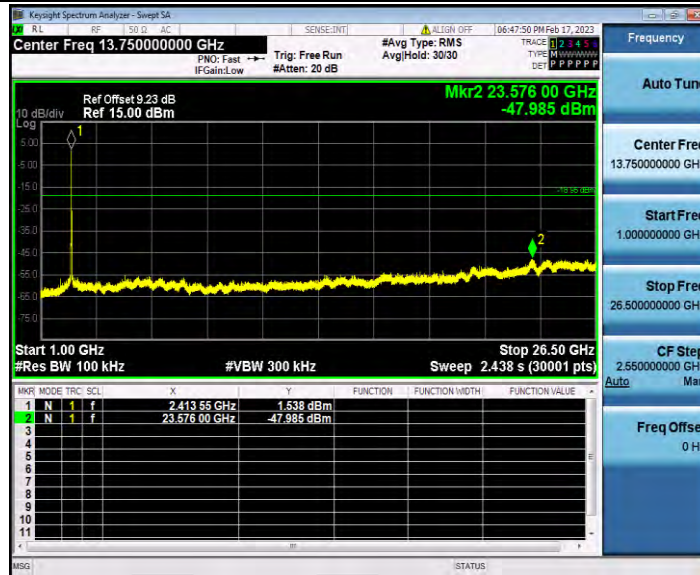
11G\_Ant1\_2412\_0~Reference



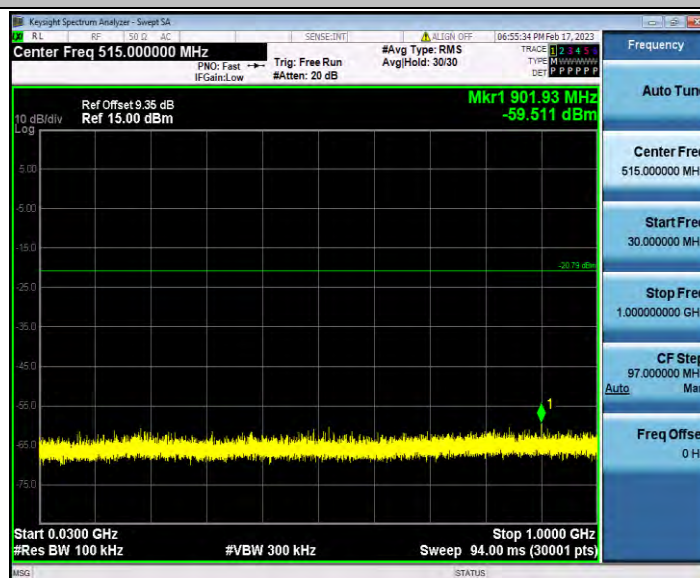
# 11G\_Ant1\_2412\_30~1000



# 11G\_Ant1\_2412\_1000~26500



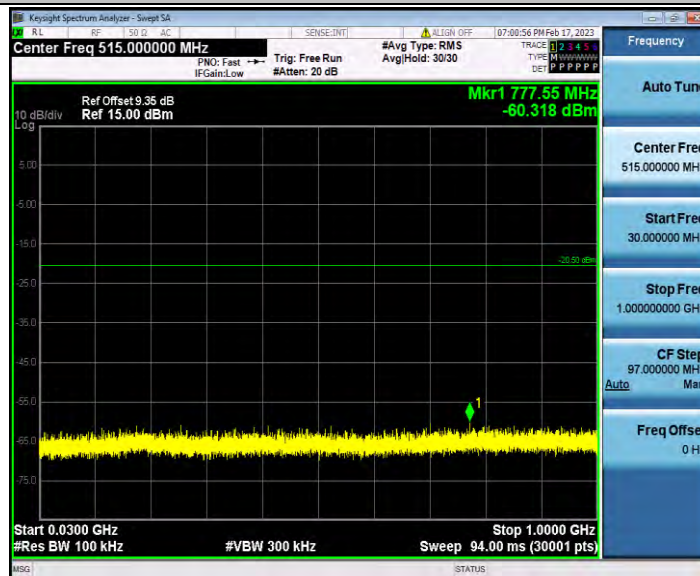
# 11G\_Ant1\_2437\_0~Reference



# 11G\_Ant1\_2462\_0~Reference

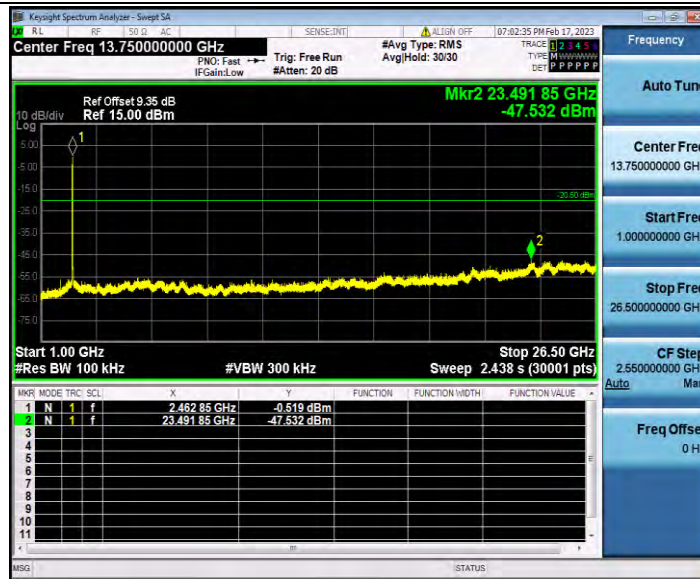


# 11G\_Ant1\_2462\_30~1000



# 11G\_Ant1\_2462\_1000~26500

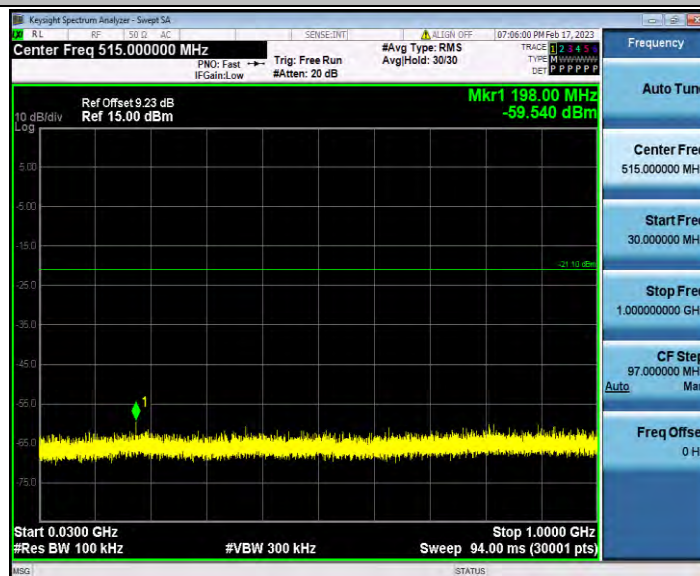




11N20SISO\_Ant1\_2412\_0~Reference

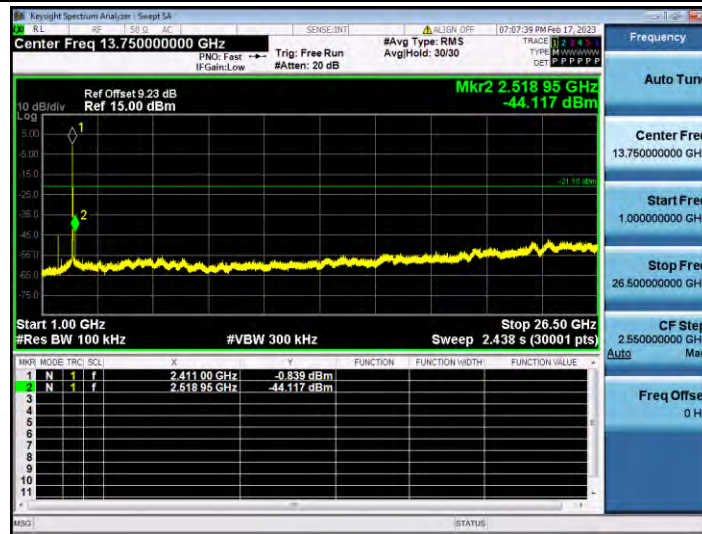


11N20SISO\_Ant1\_2412\_30~1000





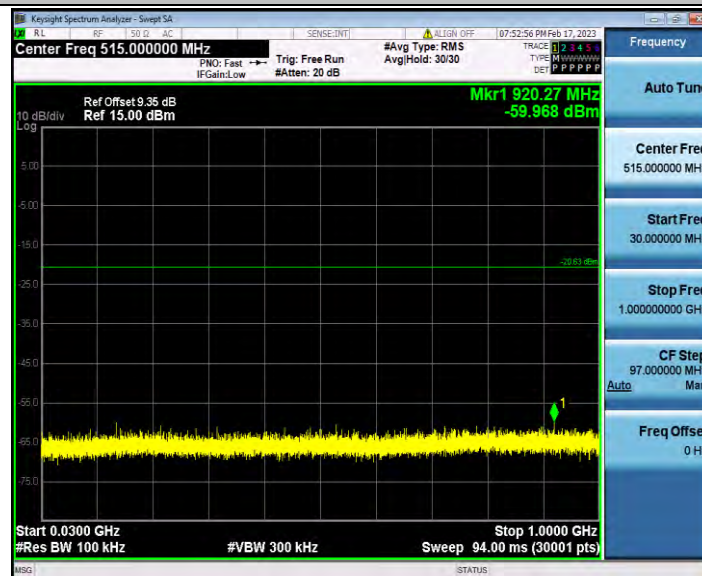
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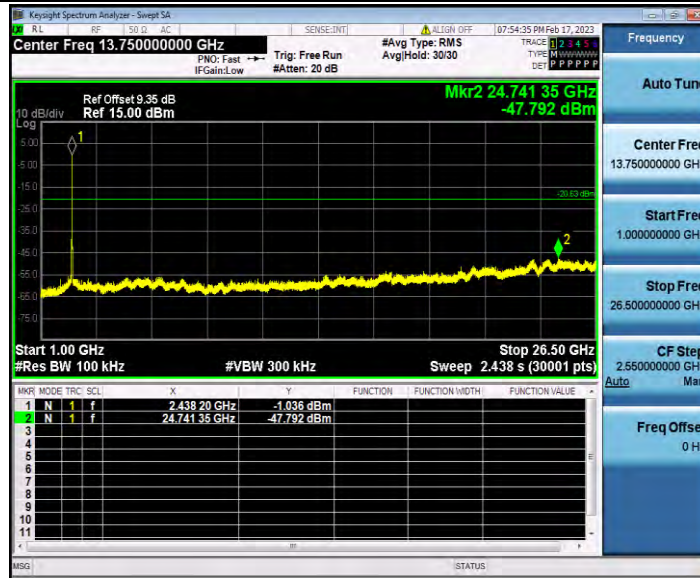
# 11N20SISO\_Ant1\_2437\_0~Reference



# 11N20SISO\_Ant1\_2437\_30~1000



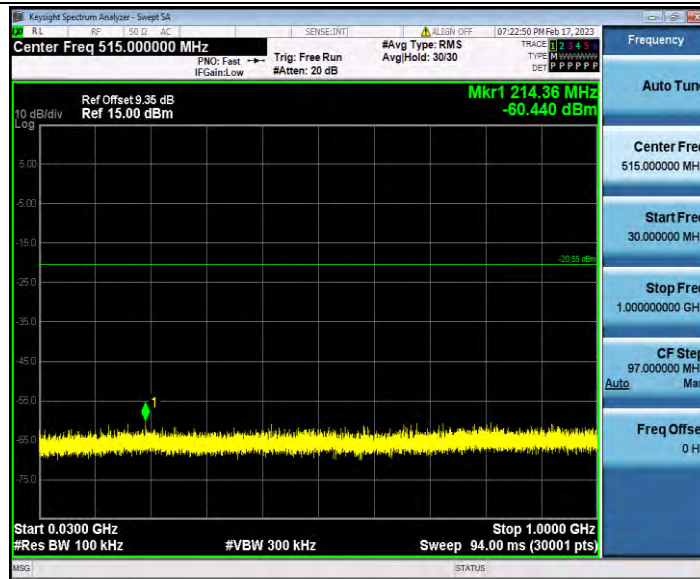
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# 11N20SISO\_Ant1\_2462\_0~Reference



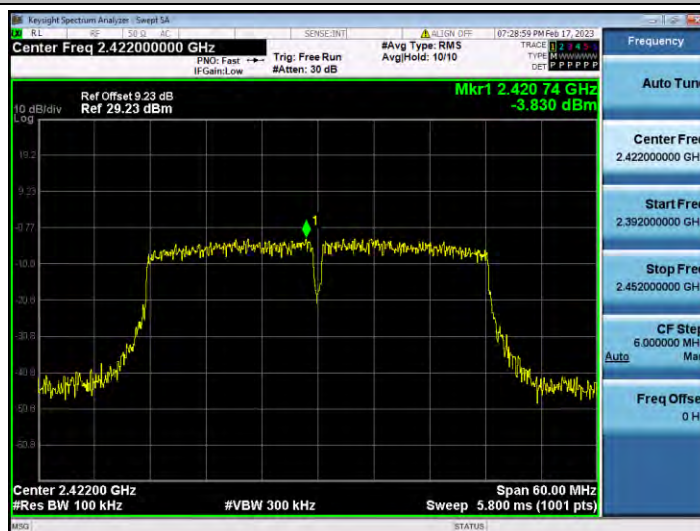
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11N20SISO\_Ant1\_2462\_1000~26500

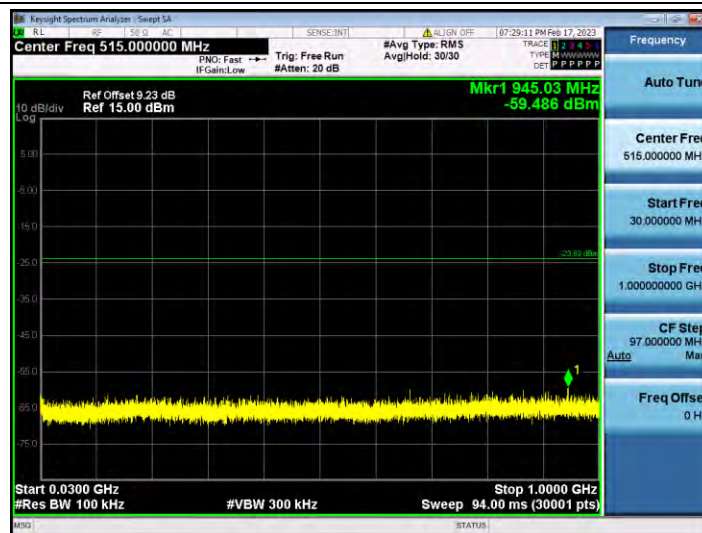


11N40SISO\_Ant1\_2422\_0~Reference

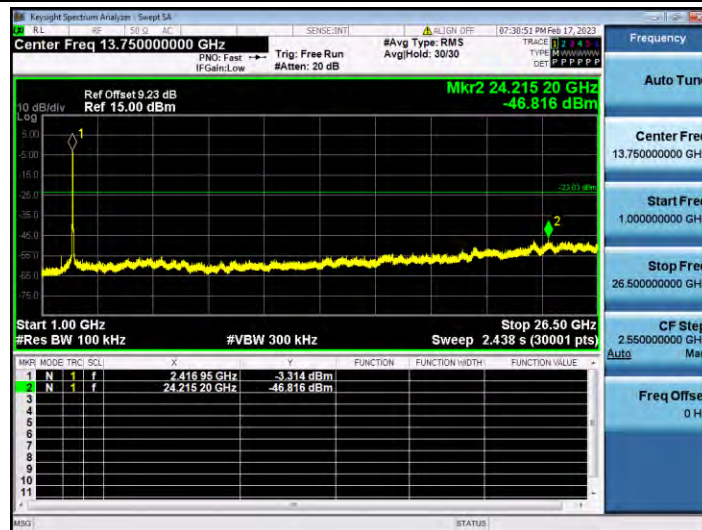


11N40SISO\_Ant1\_2422\_30~1000





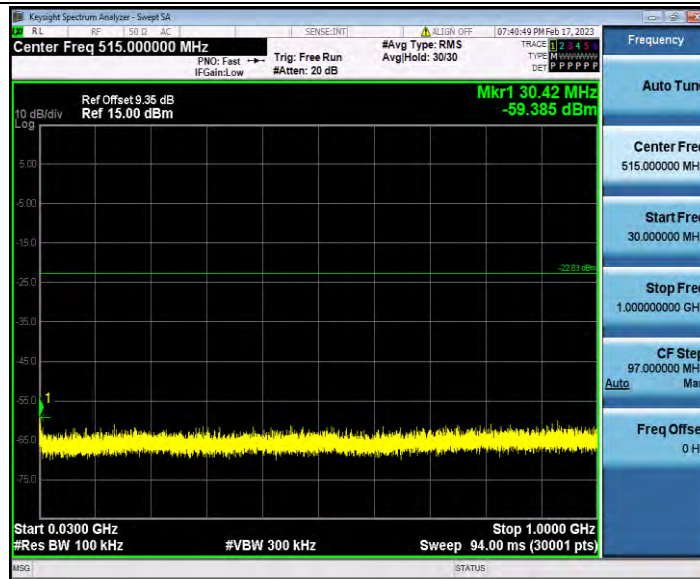
11N40SISO\_Ant1\_2422\_1000~26500



11N40SISO\_Ant1\_2437\_0~Reference



11N40SISO\_Ant1\_2437\_30~1000



11N40SISO\_Ant1\_2437\_1000~26500

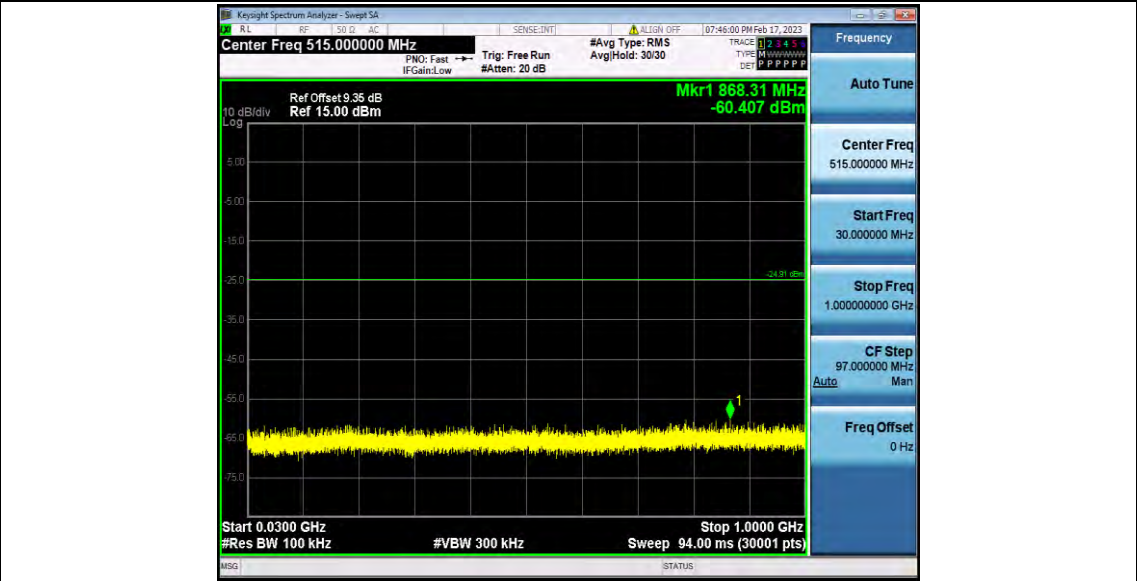


11N40SISO\_Ant1\_2452\_0~Reference





## 11N40SISO\_Ant1\_2452\_30~1000



## 11N40SISO\_Ant1\_2452\_1000~26500

