

## Antenna 1 DTS Bandwidth

### Test Result

| Test Mode | Channel | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|--------------|----------|----------|------------|---------|
| 11B       | 2412    | 10.080       | 2406.960 | 2417.040 | 0.5        | PASS    |
|           | 2437    | 10.120       | 2431.920 | 2442.040 | 0.5        | PASS    |
|           | 2462    | 10.080       | 2456.960 | 2467.040 | 0.5        | PASS    |
| 11G       | 2412    | 16.480       | 2403.720 | 2420.200 | 0.5        | PASS    |
|           | 2437    | 16.520       | 2428.760 | 2445.280 | 0.5        | PASS    |
|           | 2462    | 16.520       | 2453.720 | 2470.240 | 0.5        | PASS    |
| 11N20SISO | 2412    | 17.400       | 2403.160 | 2420.560 | 0.5        | PASS    |
|           | 2437    | 17.320       | 2428.440 | 2445.760 | 0.5        | PASS    |
|           | 2462    | 17.640       | 2453.160 | 2470.800 | 0.5        | PASS    |
| 11N40SISO | 2422    | 36.160       | 2403.760 | 2439.920 | 0.5        | PASS    |
|           | 2437    | 35.920       | 2419.000 | 2454.920 | 0.5        | PASS    |
|           | 2452    | 36.240       | 2433.760 | 2470.000 | 0.5        | PASS    |

## Test Graphs

11B 2412



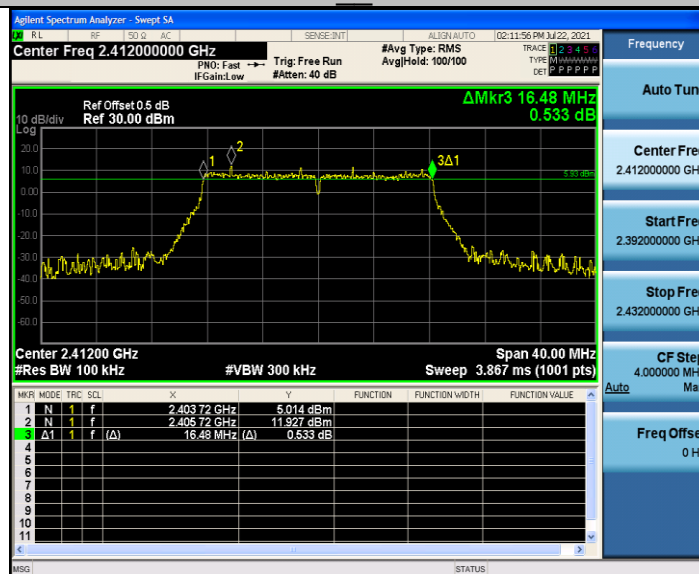
11B 2437



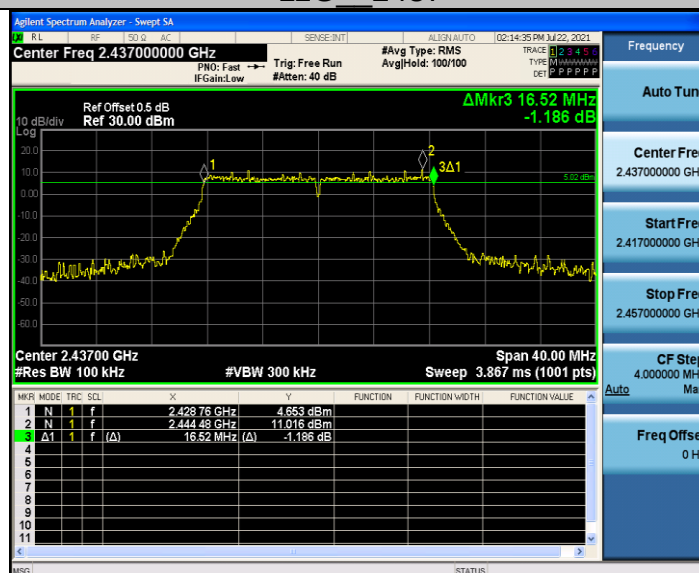
11B 2462



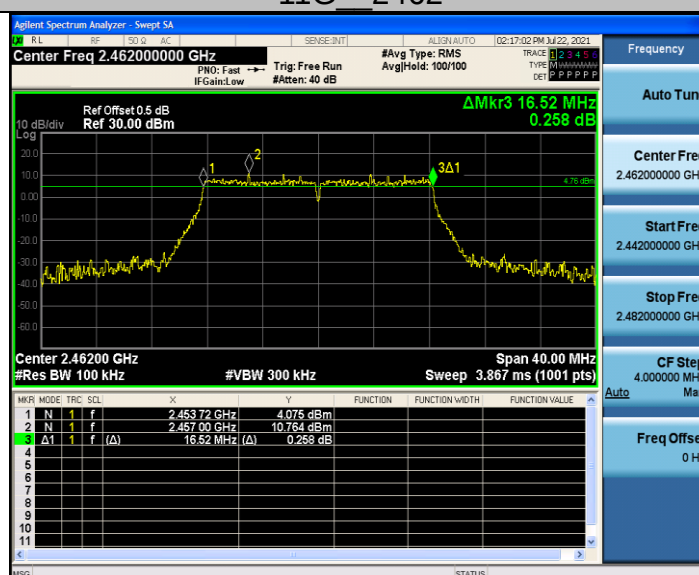
## 11G 2412



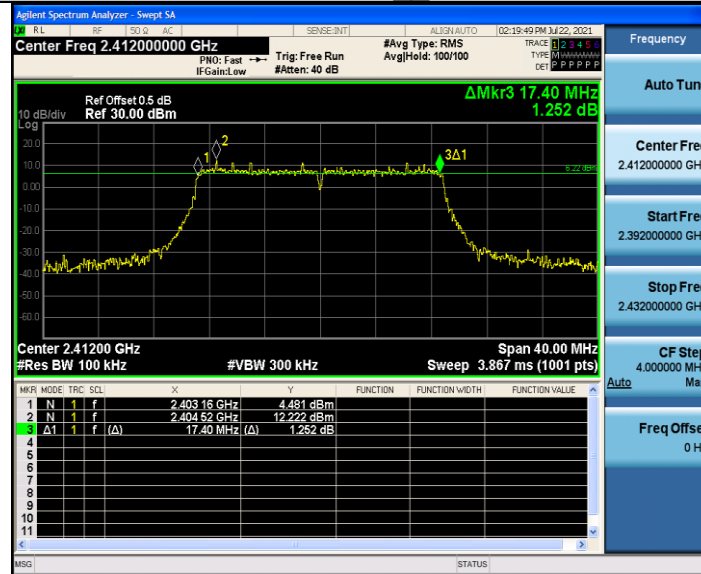
## 11G 2437



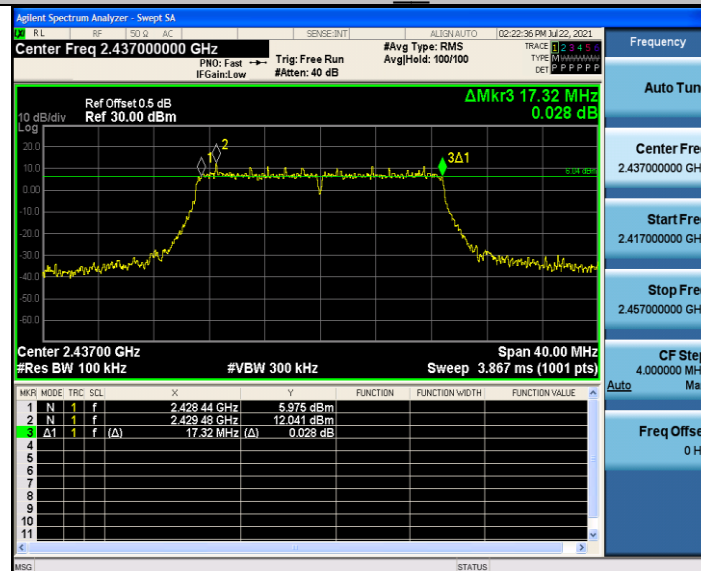
## 11G 2462



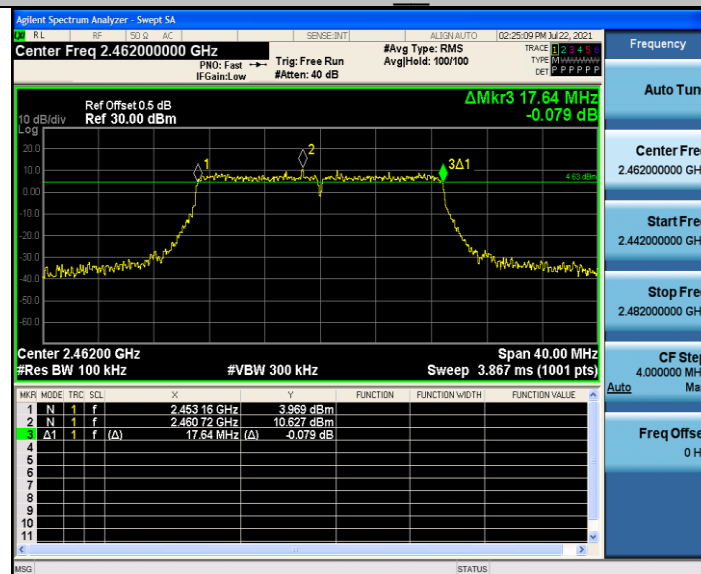
## 11N20SISO 2412



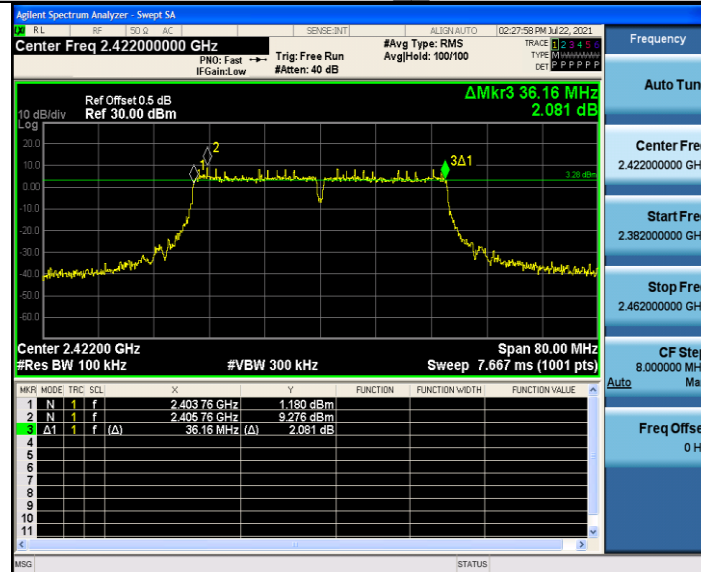
## 11N20SISO 2437



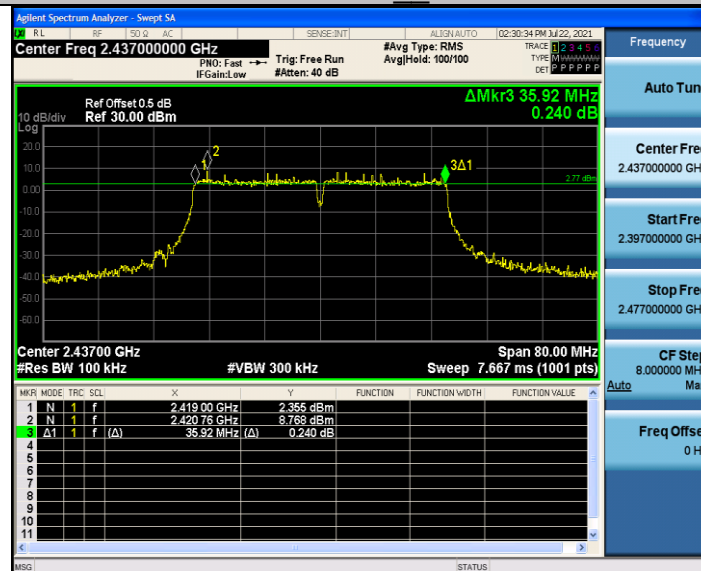
## 11N20SISO 2462



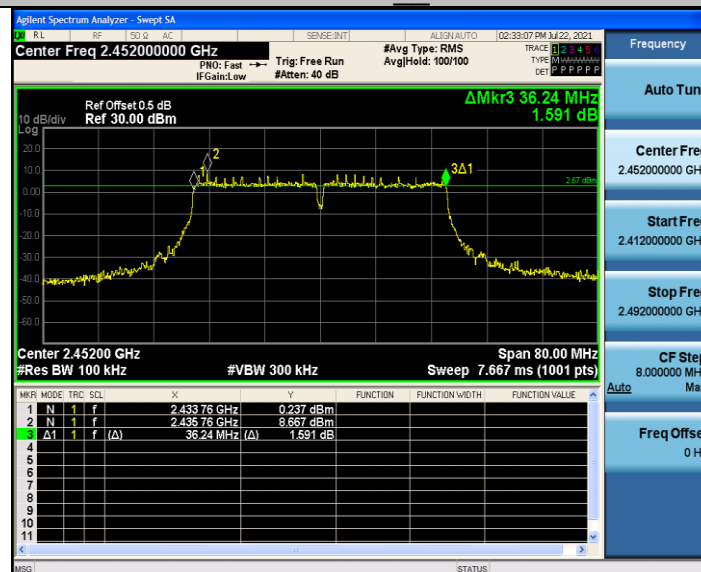
## 11N40SISO 2422



## 11N40SISO 2437



## 11N40SISO 2452



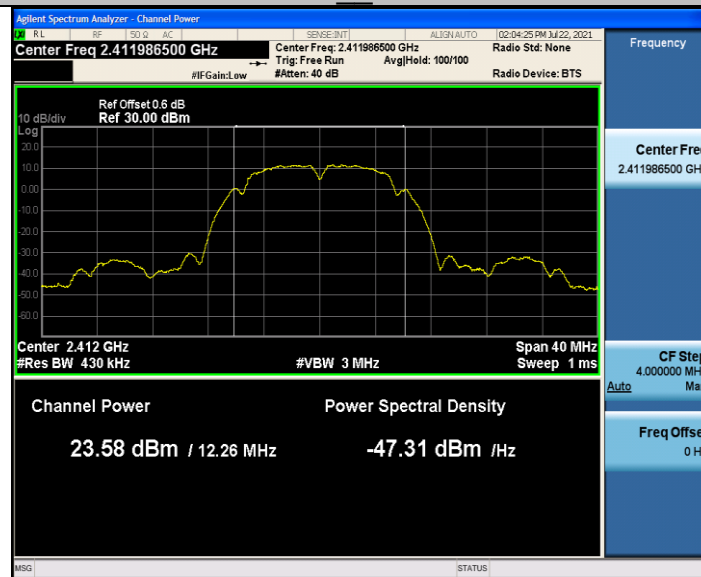
## Maximum conducted output power

### Test Result

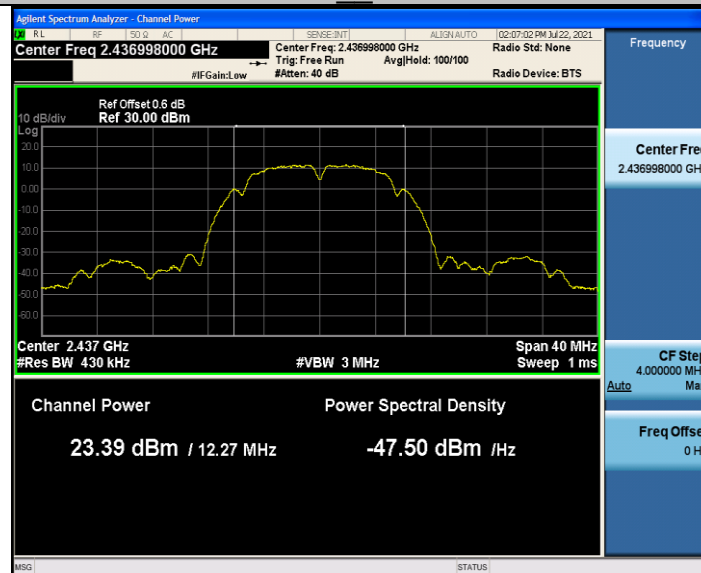
| Test Mode | Channel | Conducted Power [dBm] | Correction Factor [dB] | Total Power [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------------------|------------------------|-------------------|-------------|---------|
| 11B       | 2412    | 23.58                 | 0.10                   | 23.68             | <=30        | PASS    |
|           | 2437    | 23.39                 | 0.10                   | 23.49             | <=30        | PASS    |
|           | 2462    | 23.22                 | 0.10                   | 23.32             | <=30        | PASS    |
| 11G       | 2412    | 23.38                 | 0.58                   | 23.96             | <=30        | PASS    |
|           | 2437    | 23.15                 | 0.58                   | 23.73             | <=30        | PASS    |
|           | 2462    | 22.85                 | 0.58                   | 23.43             | <=30        | PASS    |
| 11N20SISO | 2412    | 22.95                 | 0.62                   | 23.57             | <=30        | PASS    |
|           | 2437    | 23.06                 | 0.61                   | 23.67             | <=30        | PASS    |
|           | 2462    | 22.32                 | 0.61                   | 22.93             | <=30        | PASS    |
| 11N40SISO | 2422    | 23.01                 | 1.18                   | 24.19             | <=30        | PASS    |
|           | 2437    | 22.77                 | 1.18                   | 23.95             | <=30        | PASS    |
|           | 2452    | 22.66                 | 1.18                   | 23.84             | <=30        | PASS    |

## Test Graphs

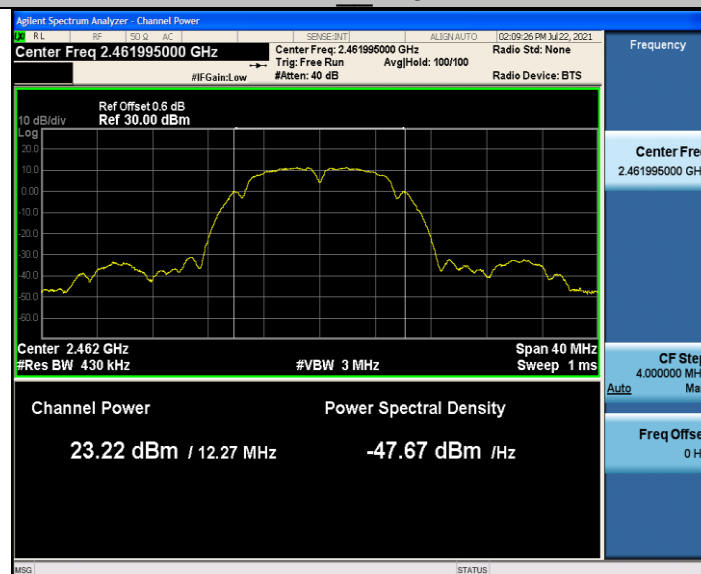
11B 2412



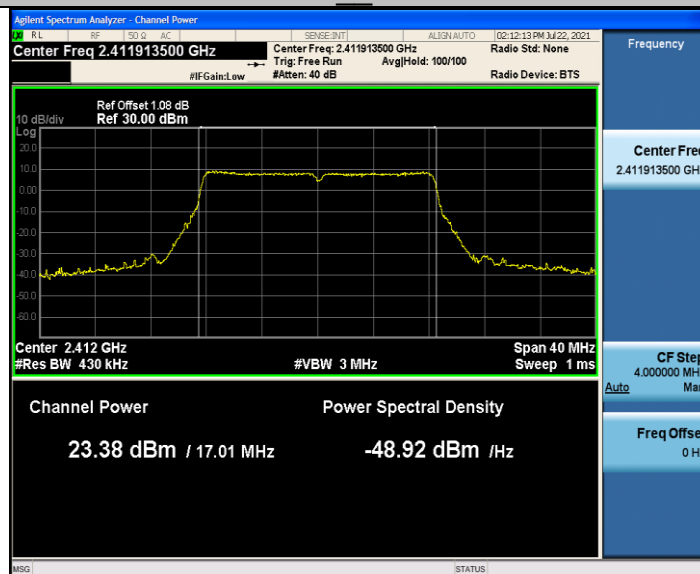
11B 2437



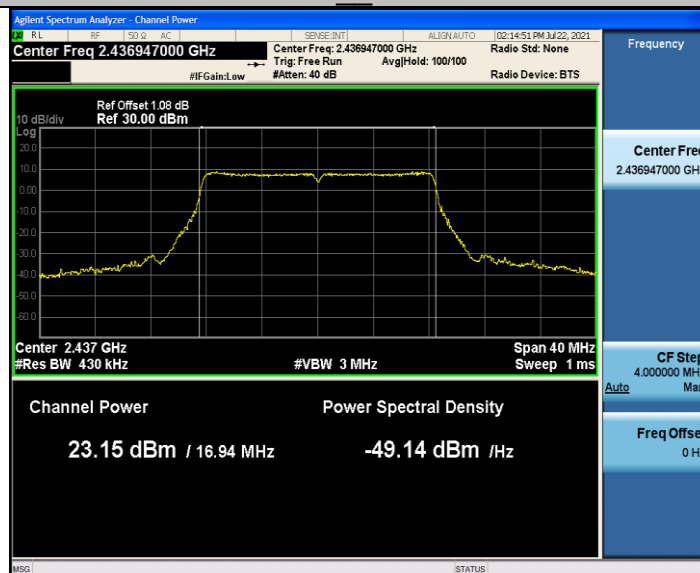
11B 2462



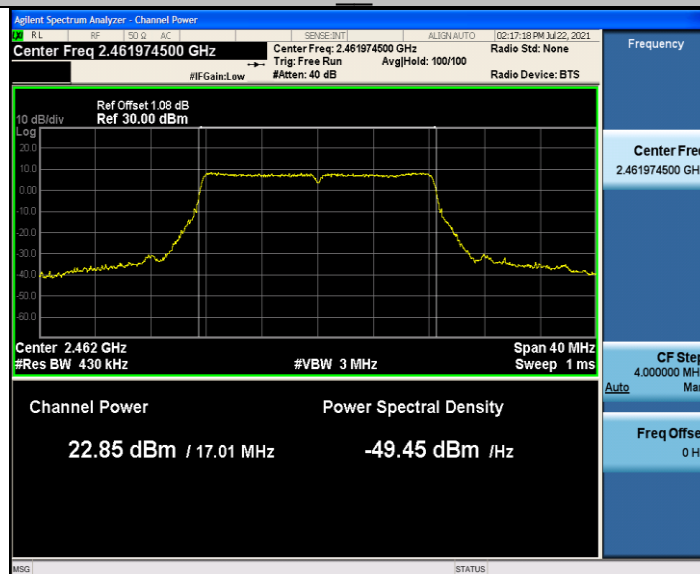
## 11G 2412



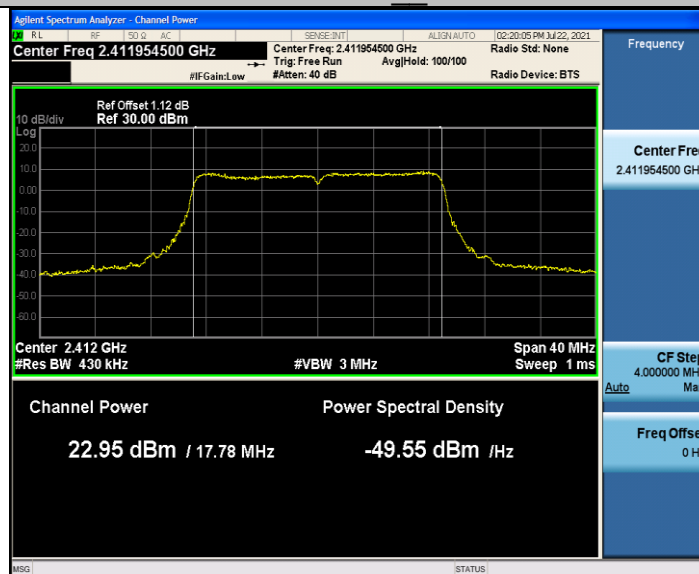
## 11G 2437



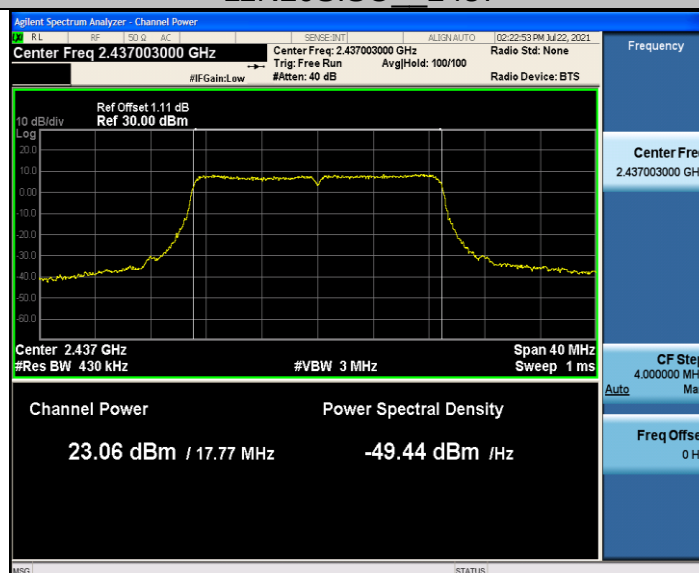
## 11G 2462



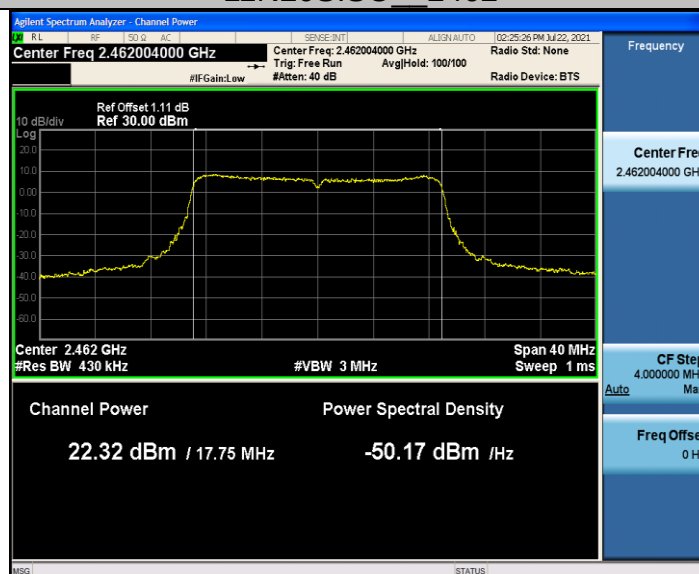
## 11N20SISO 2412



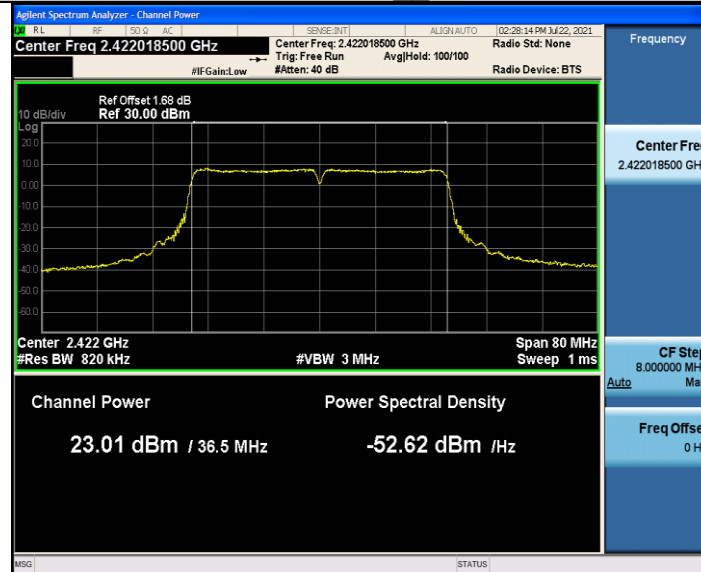
## 11N20SISO 2437



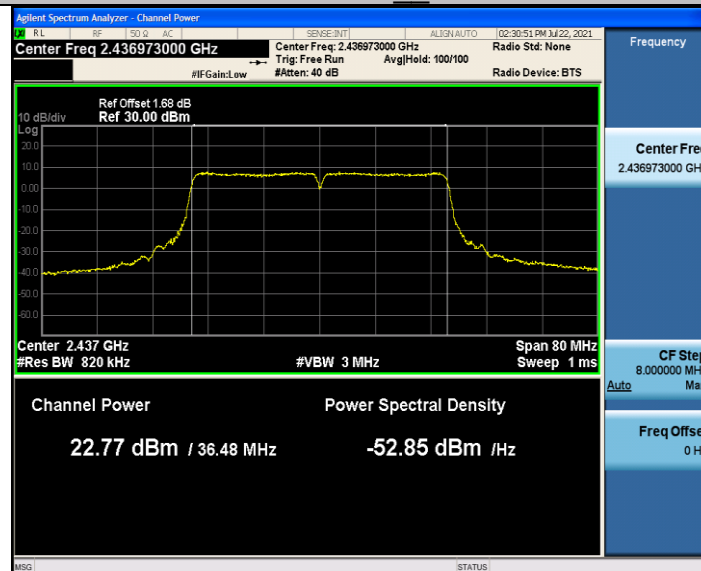
## 11N20SISO 2462



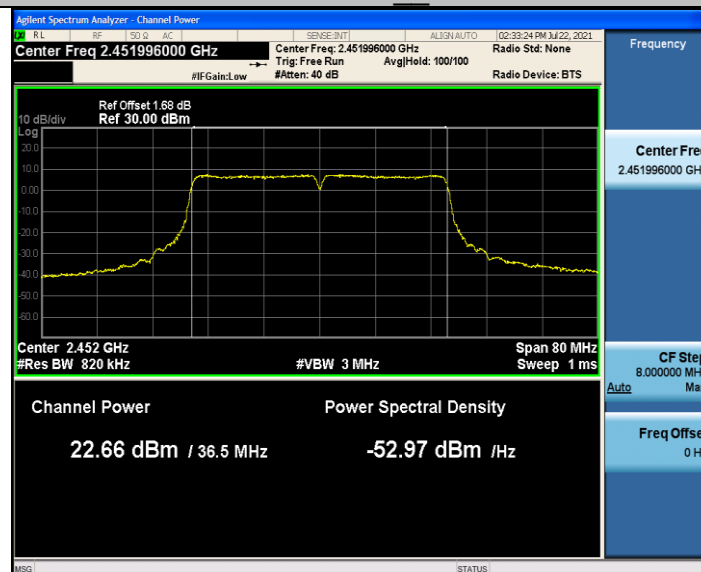
## 11N40SISO 2422



## 11N40SISO 2437



## 11N40SISO 2452



## Maximum power spectral density

### Test Result

| Test Mode | Channel | Result [dBm/10kHz] | Result [dBm/3kHz] | Limit [dBm/3kHz] | Verdict |
|-----------|---------|--------------------|-------------------|------------------|---------|
| 11B       | 2412    | 1.48               | -3.75             | <=8              | PASS    |
|           | 2437    | 0.56               | -4.67             | <=8              | PASS    |
|           | 2462    | 0.48               | -4.75             | <=8              | PASS    |
| 11G       | 2412    | -0.54              | -5.77             | <=8              | PASS    |
|           | 2437    | -0.93              | -6.16             | <=8              | PASS    |
|           | 2462    | -1.03              | -6.26             | <=8              | PASS    |
| 11N20SISO | 2412    | -0.41              | -5.64             | <=8              | PASS    |
|           | 2437    | -0.96              | -6.19             | <=8              | PASS    |
|           | 2462    | -1.77              | -7.00             | <=8              | PASS    |
| 11N40SISO | 2422    | -4.10              | -9.33             | <=8              | PASS    |
|           | 2437    | -4.45              | -9.68             | <=8              | PASS    |
|           | 2452    | -4.82              | -10.05            | <=8              | PASS    |

**Note:** Compensate 10dB is for Exchange rate of RBW

Exchange rate of RBW =  $10 \cdot \log_{10}(\text{Reference bandwidth}/\text{RBW at measurement}) = -5.23[\text{dB}]$

where Reference bandwidth = 3KHz

## Test Graphs

11B 2412



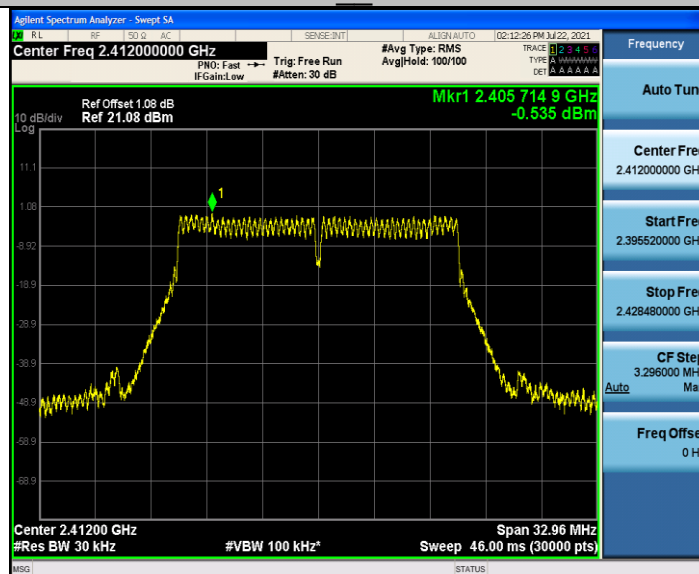
11B 2437



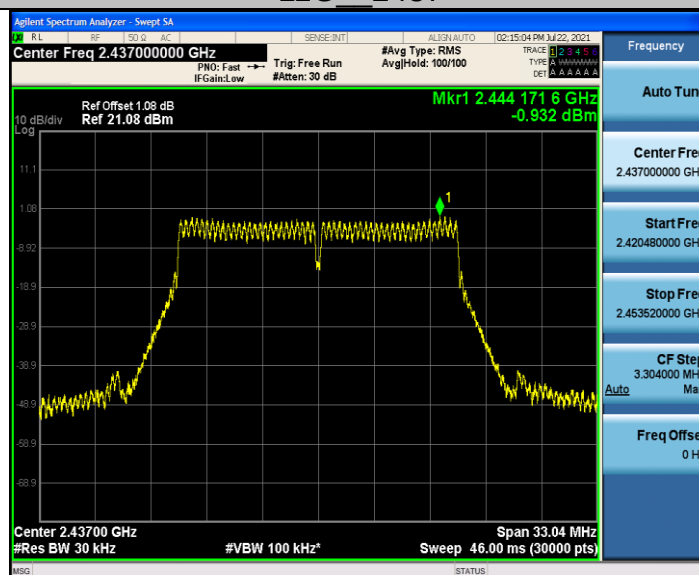
11B 2462



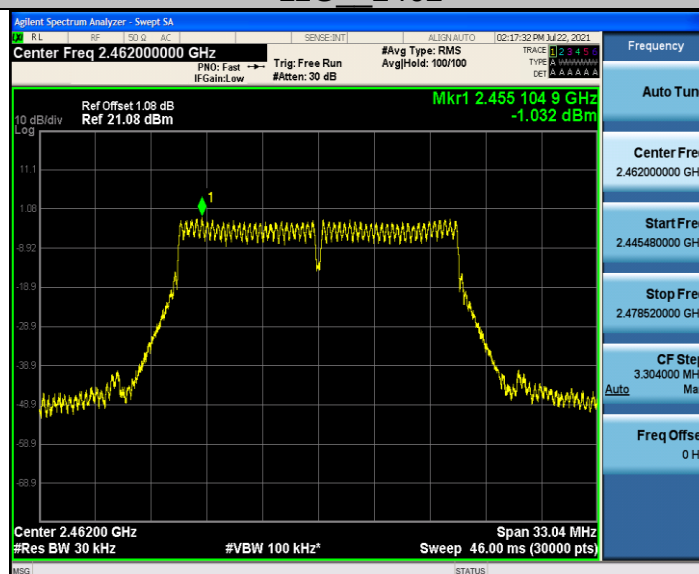
11G 2412



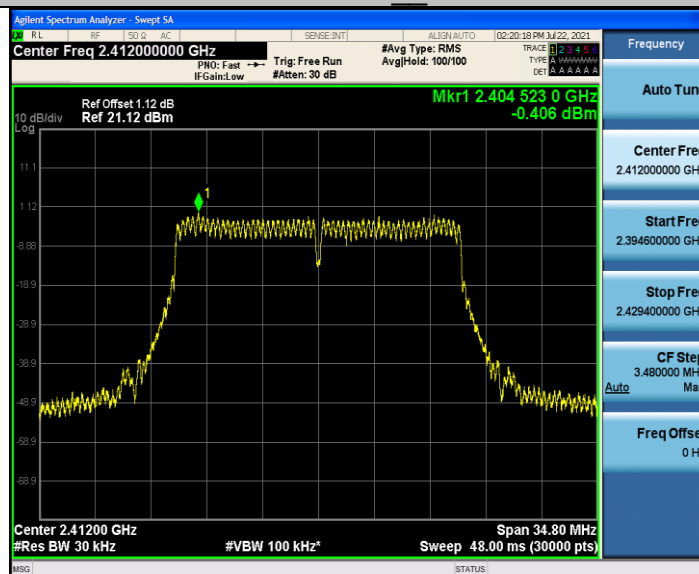
11G 2437



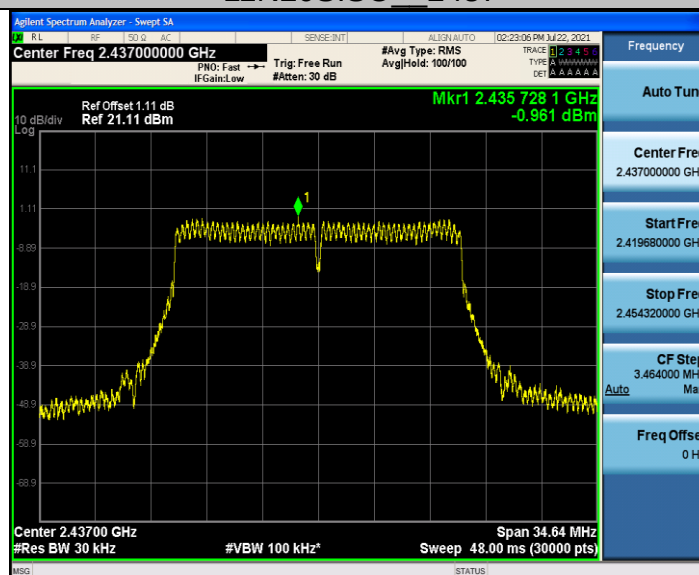
11G 2462



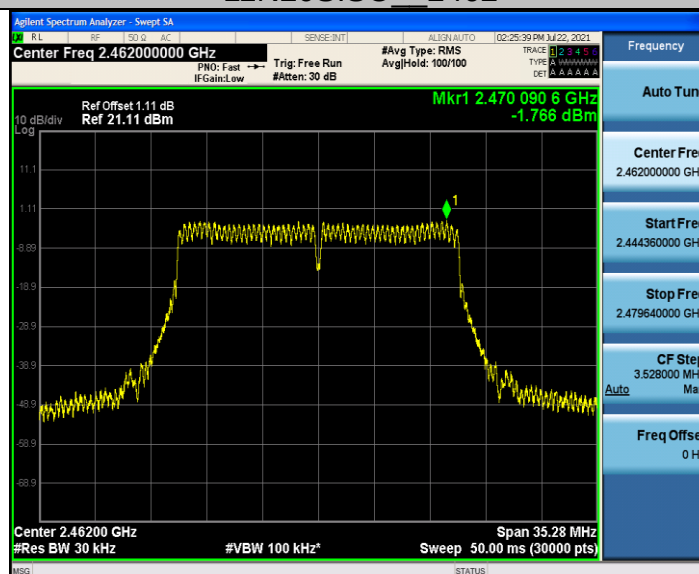
## 11N20SISO 2412



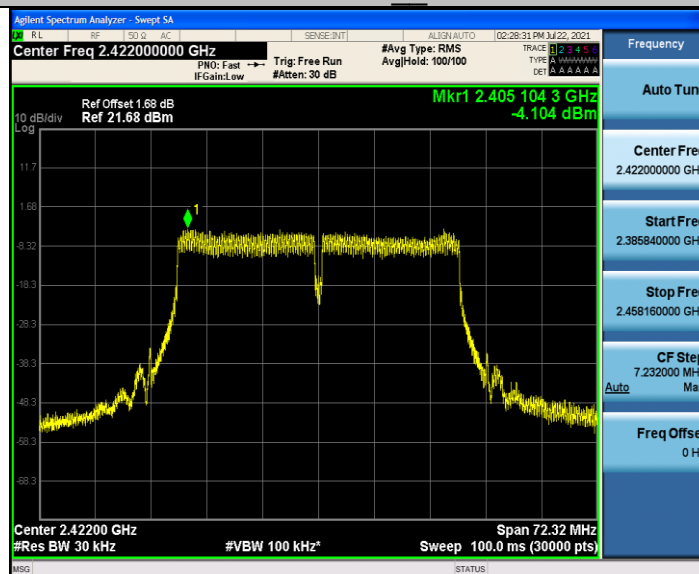
## 11N20SISO 2437



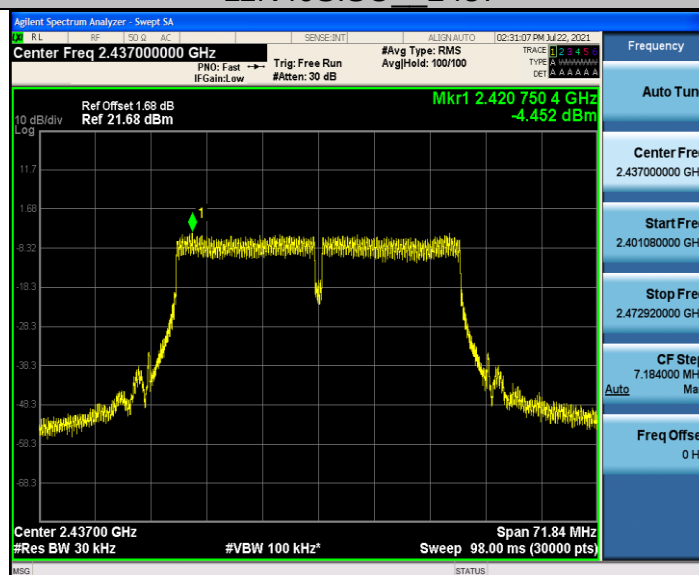
## 11N20SISO 2462



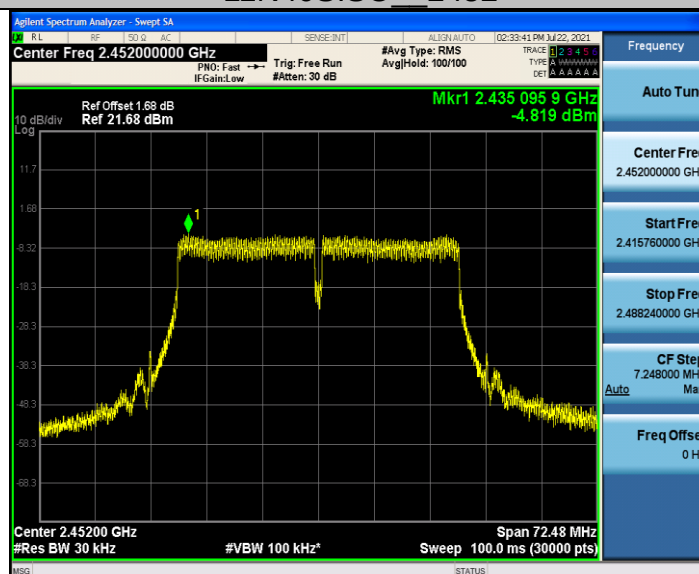
## 11N40SISO 2422



## 11N40SISO 2437



## 11N40SISO 2452



## Band edge measurements

### Test Result

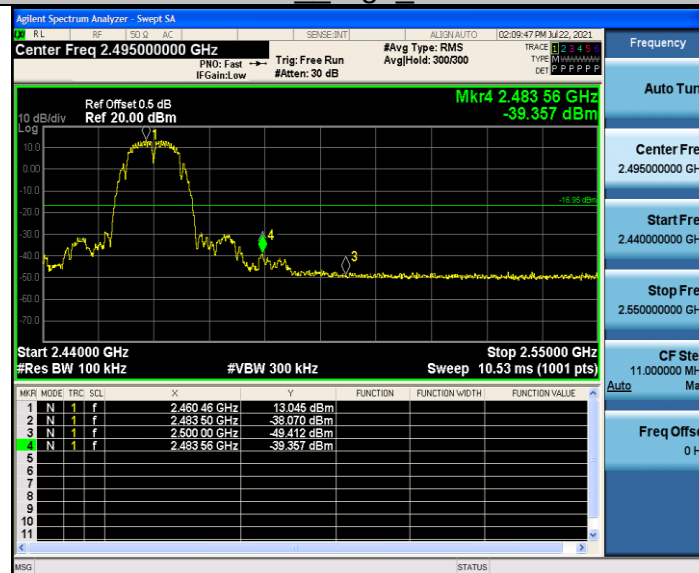
| Test Mode | Ch Name | Channel | Ref Level[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|----------------|-------------|------------|---------|
| 11B       | Low     | 2412    | 13.59          | -30.72      | <=-16.41   | PASS    |
|           | High    | 2462    | 13.05          | -39.36      | <=-16.95   | PASS    |
| 11G       | Low     | 2412    | 12.15          | -26.04      | <=-17.86   | PASS    |
|           | High    | 2462    | 11.87          | -32.33      | <=-18.13   | PASS    |
| 11N20SISO | Low     | 2412    | 12.70          | -27.93      | <=-17.3    | PASS    |
|           | High    | 2462    | 11.58          | -35.95      | <=-18.42   | PASS    |
| 11N40SISO | Low     | 2422    | 9.30           | -26.65      | <=-20.7    | PASS    |
|           | High    | 2452    | 7.96           | -34.02      | <=-22.05   | PASS    |

## Test Graphs

11B Low 2412



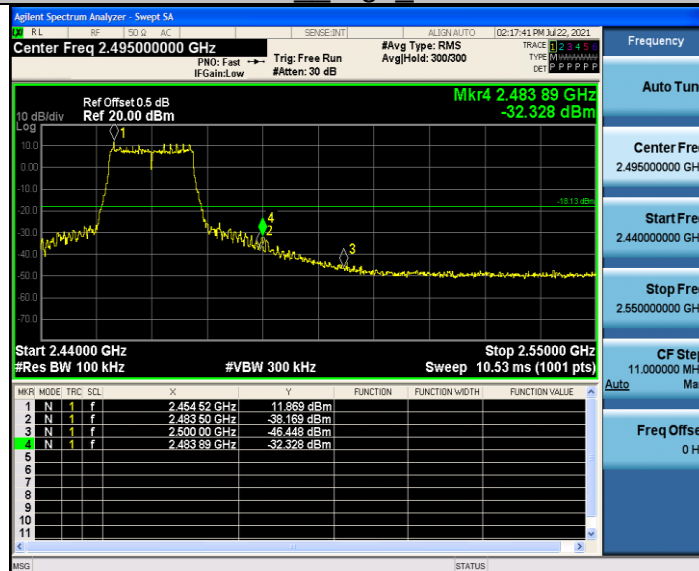
11B High 2462



11G Low 2412



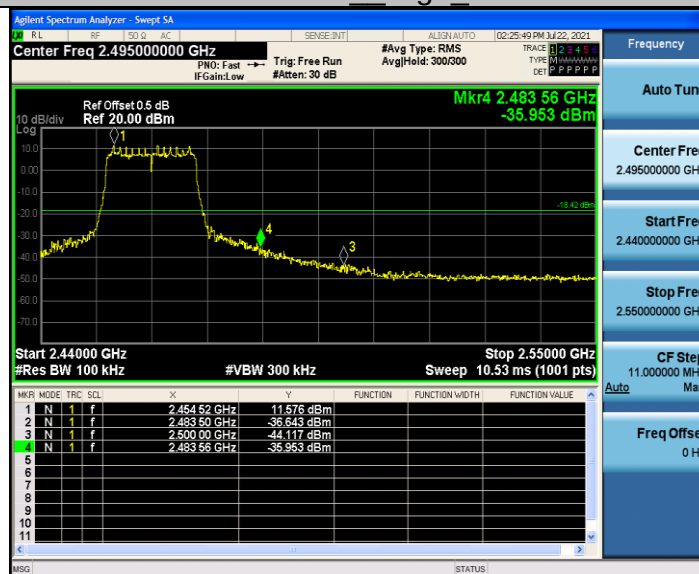
## 11G High 2462



## 11N20SISO Low 2412



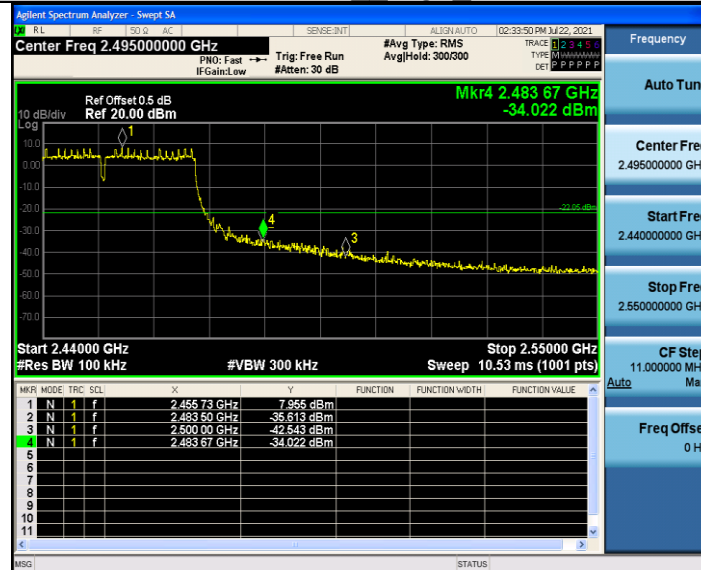
## 11N20SISO High 2462



## 11N40SISO Low 2422



## 11N40SISO High 2452



## Conducted Spurious Emission

### Test Result

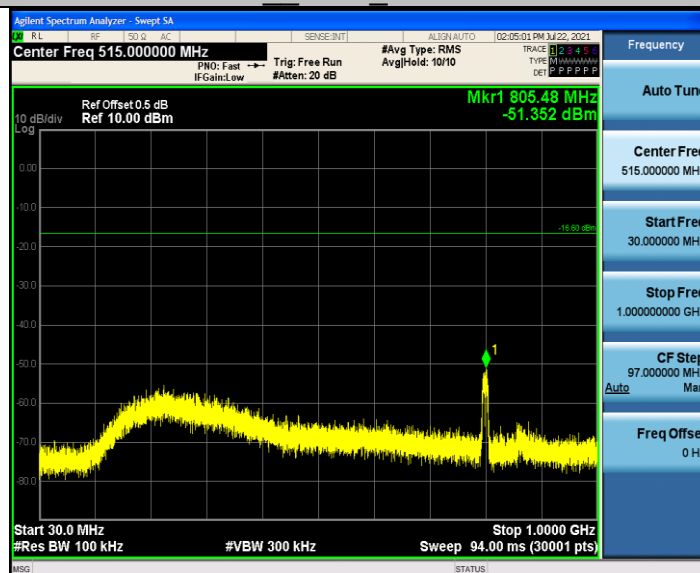
| Test Mode | Channel | Freq Range [Mhz] | Ref Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|------------------|-----------------|--------------|-------------|---------|
| 11B       | 2412    | Reference        | 13.40           | 13.40        | ---         | PASS    |
|           |         | 30~1000          | 30~1000         | -51.352      | <=-16.601   | PASS    |
|           |         | 1000~26500       | 1000~26500      | -35.7        | <=-16.601   | PASS    |
|           | 2437    | Reference        | 13.17           | 13.17        | ---         | PASS    |
|           |         | 30~1000          | 30~1000         | -53.277      | <=-16.827   | PASS    |
|           |         | 1000~26500       | 1000~26500      | -38.146      | <=-16.827   | PASS    |
|           | 2462    | Reference        | 12.96           | 12.96        | ---         | PASS    |
|           |         | 30~1000          | 30~1000         | -50.113      | <=-17.037   | PASS    |
|           |         | 1000~26500       | 1000~26500      | -36.481      | <=-17.037   | PASS    |
| 11G       | 2412    | Reference        | 11.86           | 11.86        | ---         | PASS    |
|           |         | 30~1000          | 30~1000         | -49.097      | <=-18.142   | PASS    |
|           |         | 1000~26500       | 1000~26500      | -35.746      | <=-18.142   | PASS    |
|           | 2437    | Reference        | 10.82           | 10.82        | ---         | PASS    |
|           |         | 30~1000          | 30~1000         | -53.575      | <=-19.184   | PASS    |
|           |         | 1000~26500       | 1000~26500      | -38.206      | <=-19.184   | PASS    |
|           | 2462    | Reference        | 11.10           | 11.10        | ---         | PASS    |
|           |         | 30~1000          | 30~1000         | -52.619      | <=-18.904   | PASS    |
|           |         | 1000~26500       | 1000~26500      | -36.348      | <=-18.904   | PASS    |
| 11N20SISO | 2412    | Reference        | 12.59           | 12.59        | ---         | PASS    |
|           |         | 30~1000          | 30~1000         | -51.967      | <=-17.406   | PASS    |
|           |         | 1000~26500       | 1000~26500      | -35.823      | <=-17.406   | PASS    |
|           | 2437    | Reference        | 11.62           | 11.62        | ---         | PASS    |
|           |         | 30~1000          | 30~1000         | -52.914      | <=-18.384   | PASS    |
|           |         | 1000~26500       | 1000~26500      | -37.753      | <=-18.384   | PASS    |
|           | 2462    | Reference        | 11.49           | 11.49        | ---         | PASS    |
|           |         | 30~1000          | 30~1000         | -50.291      | <=-18.515   | PASS    |
|           |         | 1000~26500       | 1000~26500      | -36.362      | <=-18.515   | PASS    |
| 11N40SISO | 2422    | Reference        | 9.16            | 9.16         | ---         | PASS    |
|           |         | 30~1000          | 30~1000         | -52.956      | <=-20.842   | PASS    |
|           |         | 1000~26500       | 1000~26500      | -37.045      | <=-20.842   | PASS    |
|           | 2437    | Reference        | 8.13            | 8.13         | ---         | PASS    |
|           |         | 30~1000          | 30~1000         | -55.557      | <=-21.872   | PASS    |
|           |         | 1000~26500       | 1000~26500      | -38.167      | <=-21.872   | PASS    |
|           | 2452    | Reference        | 8.16            | 8.16         | ---         | PASS    |
|           |         | 30~1000          | 30~1000         | -54.63       | <=-21.843   | PASS    |
|           |         | 1000~26500       | 1000~26500      | -37.048      | <=-21.843   | PASS    |

## Test Graphs

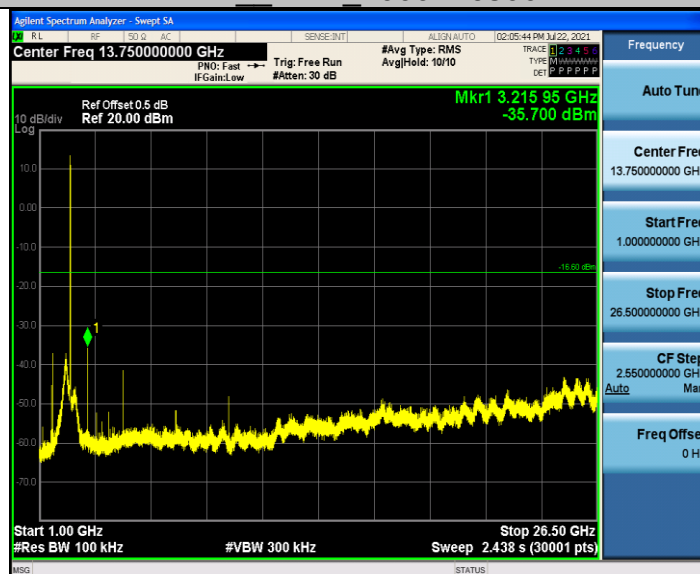
11B 2412 0~Reference



11B 2412 30~1000



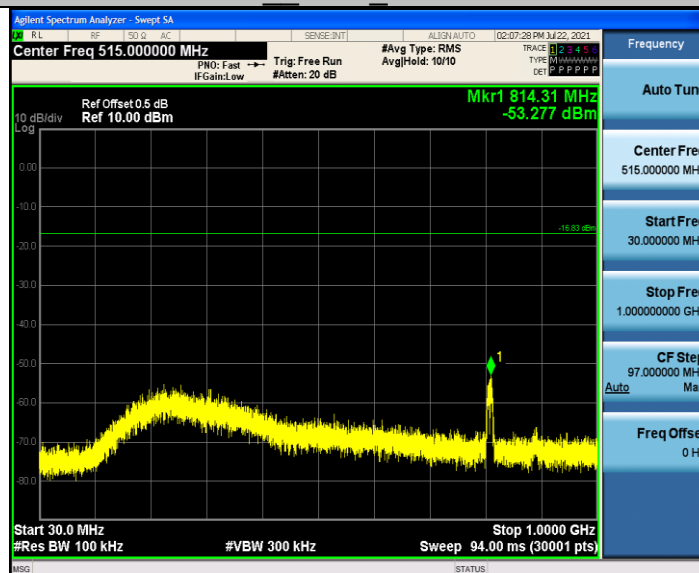
11B 2412 1000~26500



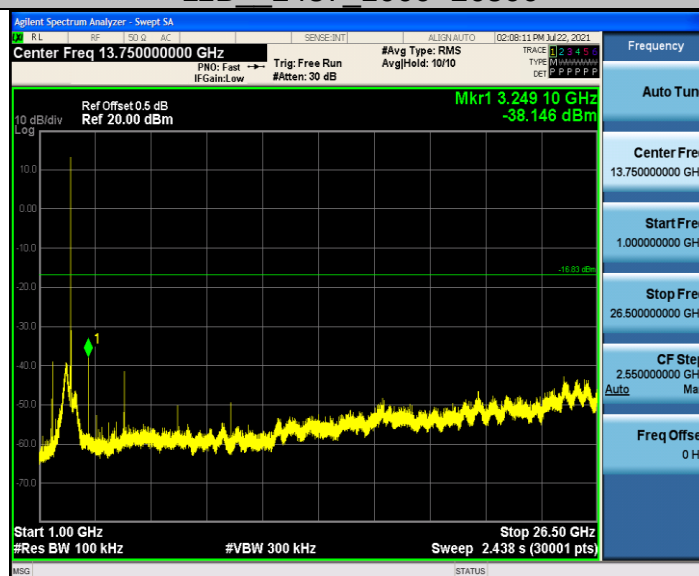
## 11B 2437 0~Reference



## 11B 2437 30~1000



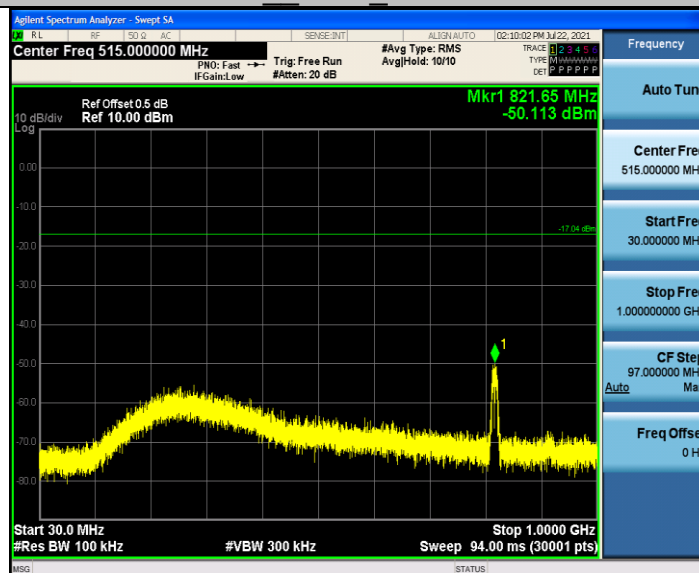
## 11B 2437 1000~26500



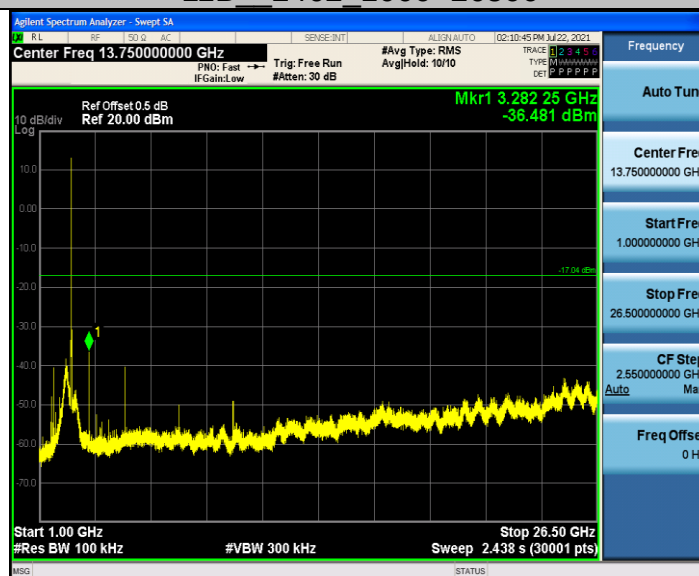
## 11B 2462 0~Reference



## 11B 2462 30~1000



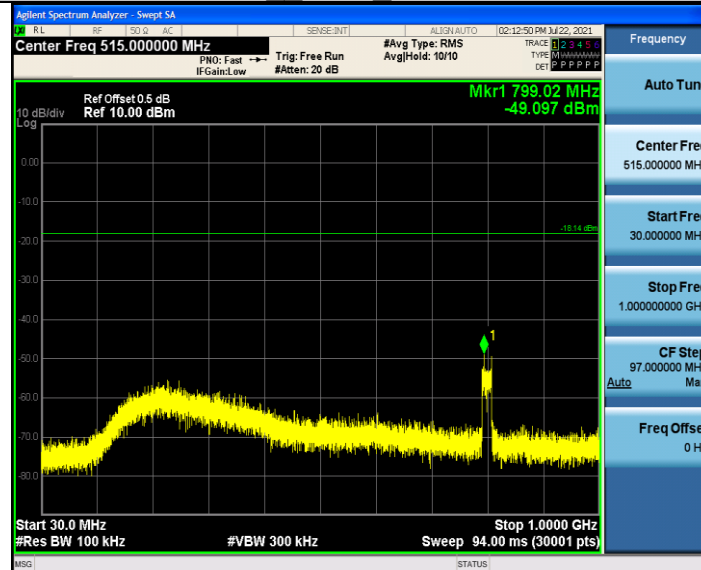
## 11B 2462 1000~26500



## 11G 2412 0~Reference



## 11G 2412 30~1000



## 11G 2412 1000~26500

