

|                                                        |                                          |
|--------------------------------------------------------|------------------------------------------|
| <b>Case No. :</b> <u>CTA24050902503</u>                |                                          |
| <b>Ambient Condition:</b> <u>23</u> °C, <u>49</u> %RH, |                                          |
| <b>Test Date:</b> <u>2024.3.19</u>                     | <b>Test Engineer:</b> <u>Evan ouyang</u> |

## Appendix C.1: DTS Bandwidth

### Test Result

| TestMode  | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|----------|----------|------------|---------|
| 11B       | Ant0    | 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       | Ant0    | 2412           | 16.520       | 2403.760 | 2420.280 | 0.5        | PASS    |
|           |         | 2437           | 16.520       | 2428.760 | 2445.280 | 0.5        | PASS    |
|           |         | 2462           | 16.560       | 2453.720 | 2470.280 | 0.5        | PASS    |
| 11N20SISO | Ant0    | 2412           | 17.800       | 2403.080 | 2420.880 | 0.5        | PASS    |
|           |         | 2437           | 17.760       | 2428.120 | 2445.880 | 0.5        | PASS    |
|           |         | 2462           | 17.760       | 2453.120 | 2470.880 | 0.5        | PASS    |
| 11N40SISO | Ant0    | 2422           | 36.480       | 2403.760 | 2440.240 | 0.5        | PASS    |
|           |         | 2437           | 36.480       | 2418.760 | 2455.240 | 0.5        | PASS    |
|           |         | 2452           | 36.480       | 2433.760 | 2470.240 | 0.5        | PASS    |

## Test Graphs

11B\_Ant0\_2412



11B\_Ant0\_2437



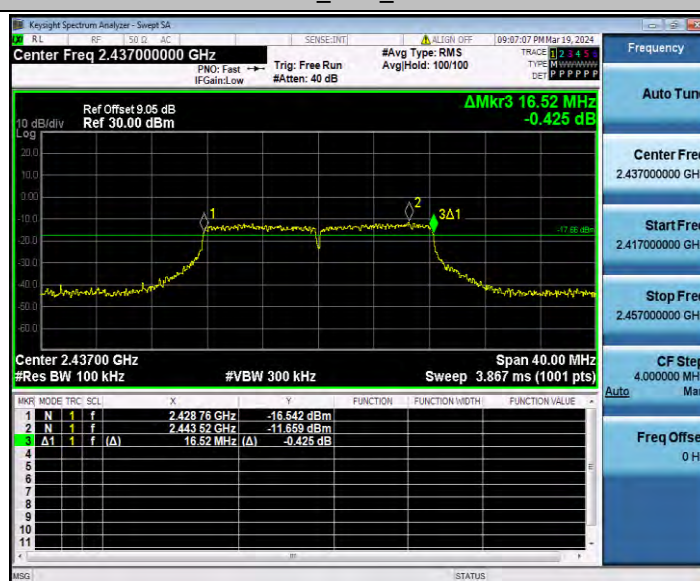
11B\_Ant0\_2462



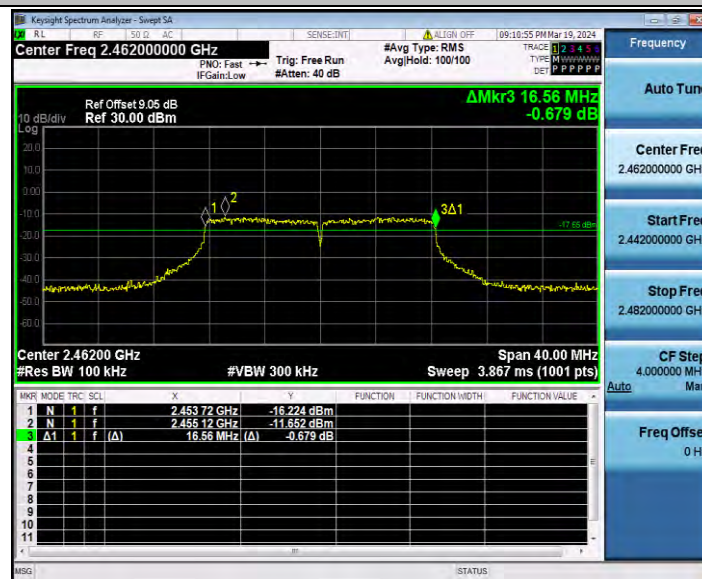
11G\_Ant0\_2412



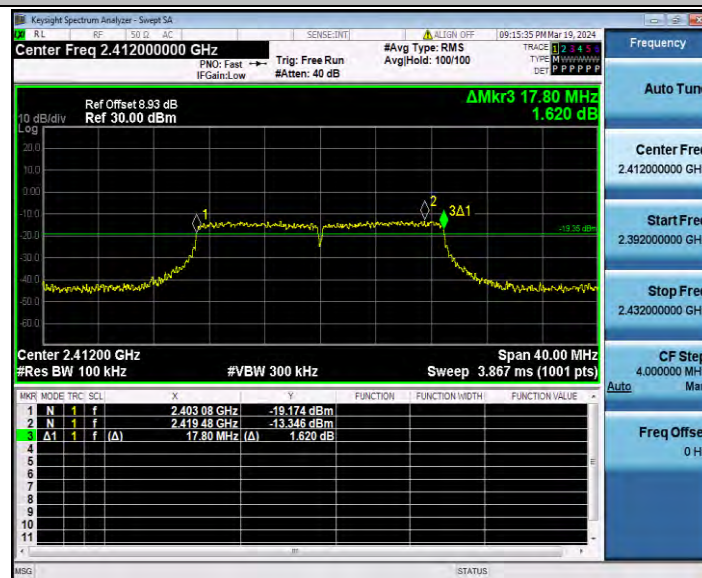
11G\_Ant0\_2437



## 11G\_Ant0\_2462



## 11N20SISO\_Ant0\_2412



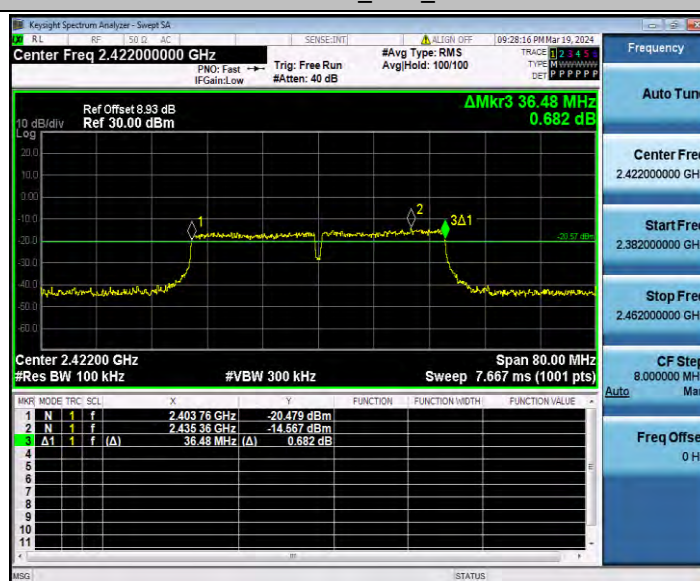
## 11N20SISO\_Ant0\_2437



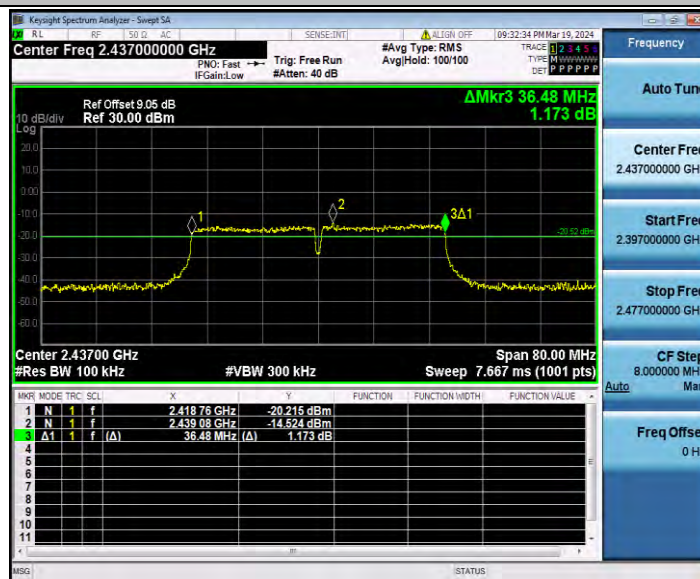
11N20SISO\_Ant0\_2462



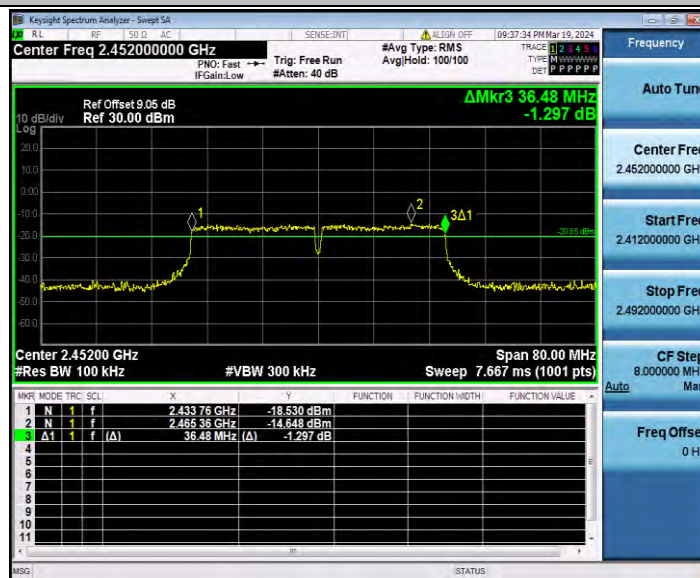
11N40SISO\_Ant0\_2422



## 11N40SISO\_Ant0\_2437



## 11N40SISO\_Ant0\_2452



## Appendix C.2: Occupied Channel Bandwidth

### Test Result

| TestMode  | Antenna | Channel<br>Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   |
|-----------|---------|---------------------------|-----------|-----------|-----------|
| 11B       | Ant0    | 2412                      | 15.294    | 2404.3675 | 2419.6615 |
|           |         | 2437                      | 15.378    | 2429.3641 | 2444.7421 |
|           |         | 2462                      | 15.330    | 2454.3135 | 2469.6435 |
| 11G       | Ant0    | 2412                      | 17.316    | 2403.2749 | 2420.5909 |
|           |         | 2437                      | 17.279    | 2428.3606 | 2445.6396 |
|           |         | 2462                      | 17.440    | 2453.1263 | 2470.5663 |
| 11N20SISO | Ant0    | 2412                      | 18.456    | 2402.8039 | 2421.2599 |
|           |         | 2437                      | 18.313    | 2427.8729 | 2446.1859 |
|           |         | 2462                      | 18.329    | 2452.8076 | 2471.1366 |
| 11N40SISO | Ant0    | 2422                      | 37.391    | 2403.4561 | 2440.8471 |
|           |         | 2437                      | 37.110    | 2418.5733 | 2455.6833 |
|           |         | 2452                      | 37.188    | 2433.4123 | 2470.6003 |

## Test Graphs

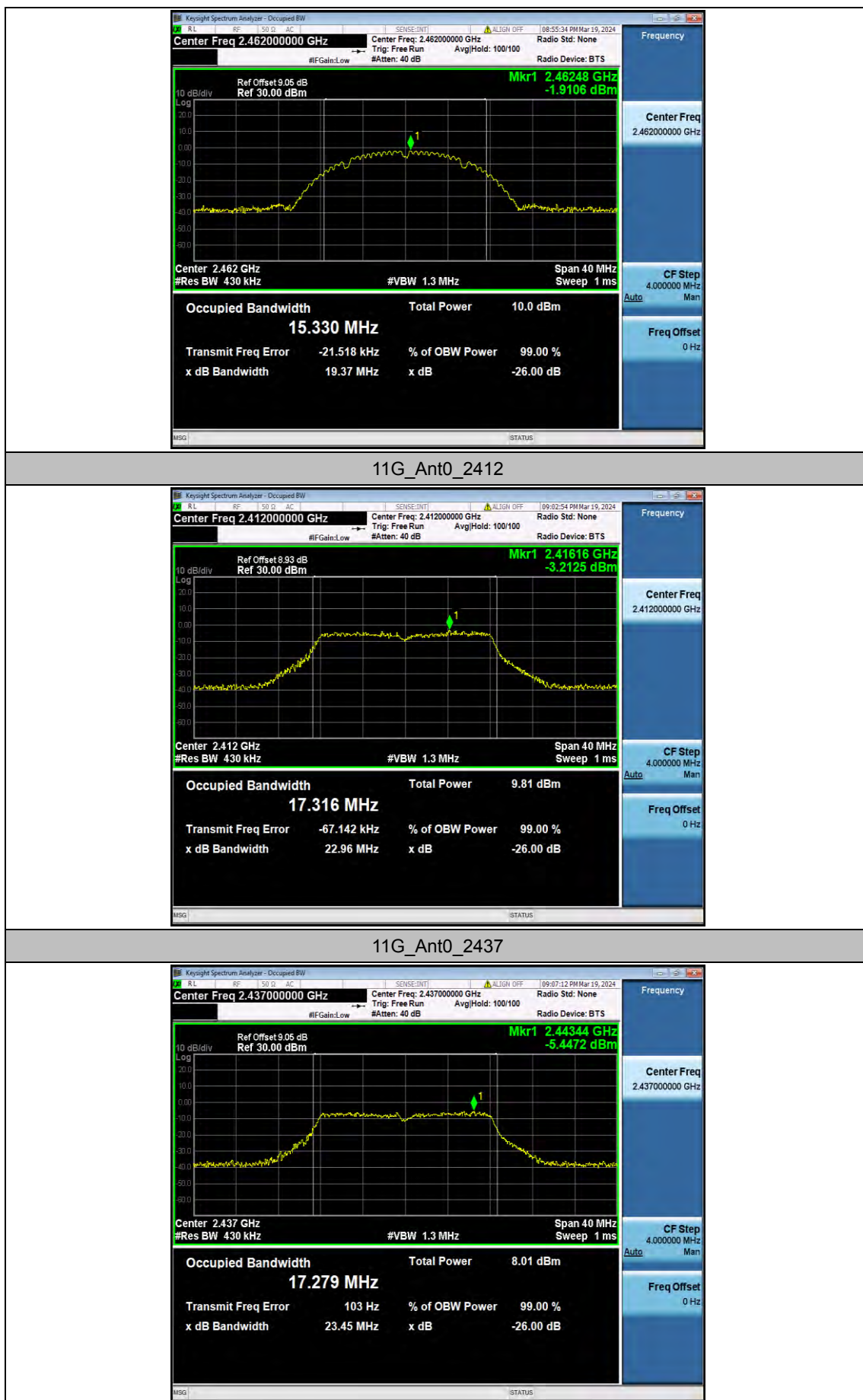
11B\_Ant0\_2412



11B\_Ant0\_2437



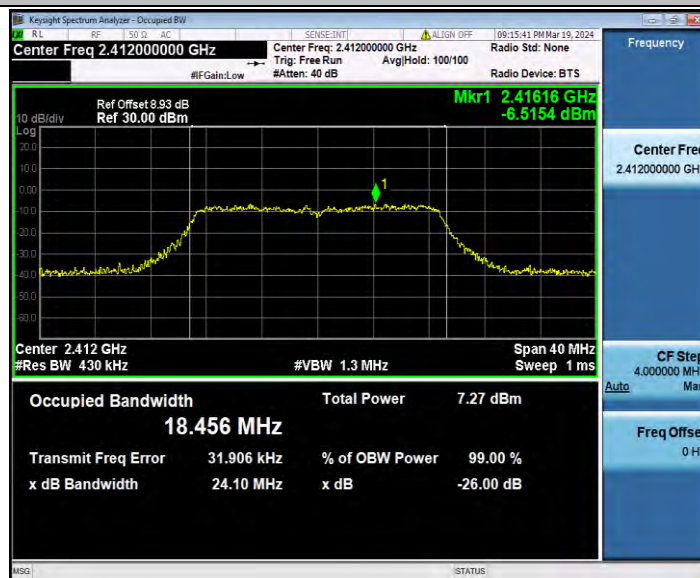
11B\_Ant0\_2462



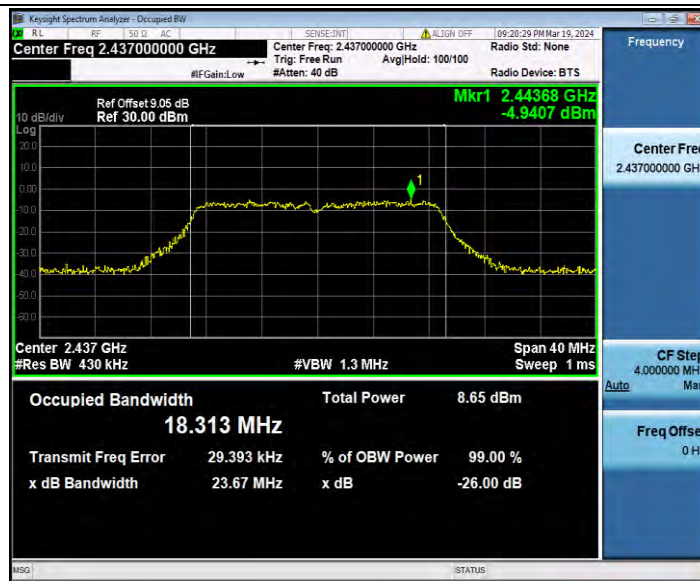
## 11G\_Ant0\_2462



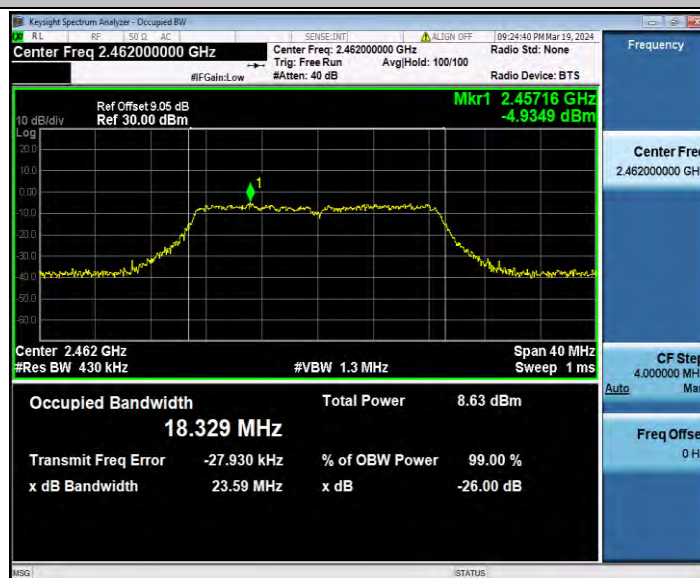
## 11N20SISO\_Ant0\_2412



## 11N20SISO\_Ant0\_2437



11N20SISO\_Ant0\_2462



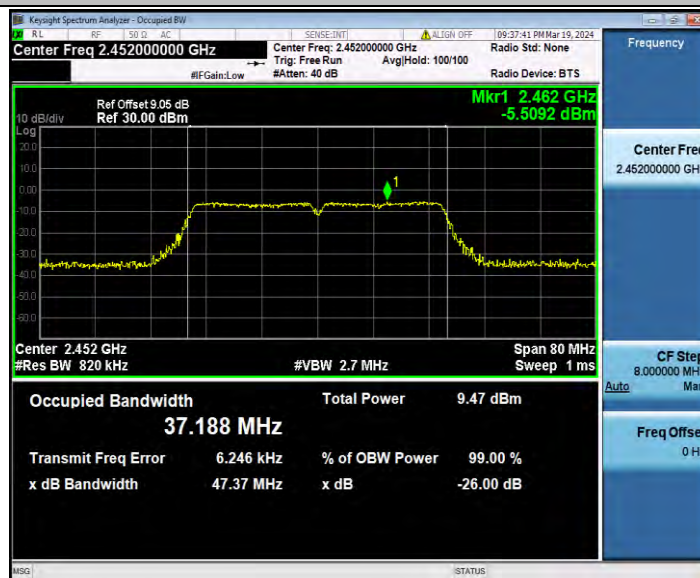
11N40SISO\_Ant0\_2422



## 11N40SISO\_Ant0\_2437



## 11N40SISO\_Ant0\_2452



## Appendix C.3: Maximum conducted output power

### Test Result -CHP

| Test Mode | Antenna | Frequency[MHz] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|--------------|-------------|---------|
| 11B       | Ant0    | 2412           | 8.40         | ≤30.00      | PASS    |
|           |         | 2437           | 8.74         | ≤30.00      | PASS    |
|           |         | 2462           | 8.75         | ≤30.00      | PASS    |
| 11G       | Ant0    | 2412           | 7.08         | ≤30.00      | PASS    |
|           |         | 2437           | 8.10         | ≤30.00      | PASS    |
|           |         | 2462           | 8.60         | ≤30.00      | PASS    |
| 11N20SISO | Ant0    | 2412           | 8.62         | ≤30.00      | PASS    |
|           |         | 2437           | 8.98         | ≤30.00      | PASS    |
|           |         | 2462           | 8.65         | ≤30.00      | PASS    |
| 11N40SISO | Ant0    | 2422           | 8.11         | ≤30.00      | PASS    |
|           |         | 2437           | 8.40         | ≤30.00      | PASS    |
|           |         | 2452           | 8.83         | ≤30.00      | PASS    |

Note:

1.The Duty Cycle Factor and RBW Factor is compensated in the data.

## Appendix C.4: Maximum power spectral density

### Test Result

| TestMode  | Antenna | Frequency[MHz] | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|----------------|----------------------|-----------------|---------|
| 11B       | Ant0    | 2412           | -25.06               | ≤8.00           | PASS    |
|           |         | 2437           | -23.65               | ≤8.00           | PASS    |
|           |         | 2462           | -23.23               | ≤8.00           | PASS    |
| 11G       | Ant0    | 2412           | -24.55               | ≤8.00           | PASS    |
|           |         | 2437           | -26.04               | ≤8.00           | PASS    |
|           |         | 2462           | -25.46               | ≤8.00           | PASS    |
| 11N20SISO | Ant0    | 2412           | -26.22               | ≤8.00           | PASS    |
|           |         | 2437           | -25.00               | ≤8.00           | PASS    |
|           |         | 2462           | -25.52               | ≤8.00           | PASS    |
| 11N40SISO | Ant0    | 2422           | -25.95               | ≤8.00           | PASS    |
|           |         | 2437           | -27.65               | ≤8.00           | PASS    |
|           |         | 2452           | -27.89               | ≤8.00           | PASS    |

Note:

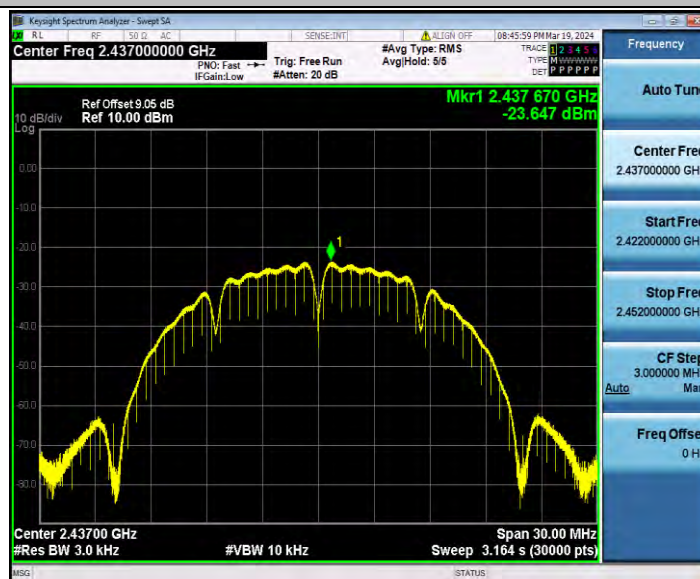
1. The Duty Cycle Factor and RBW Factor is compensated in the graph.

## Test Graphs

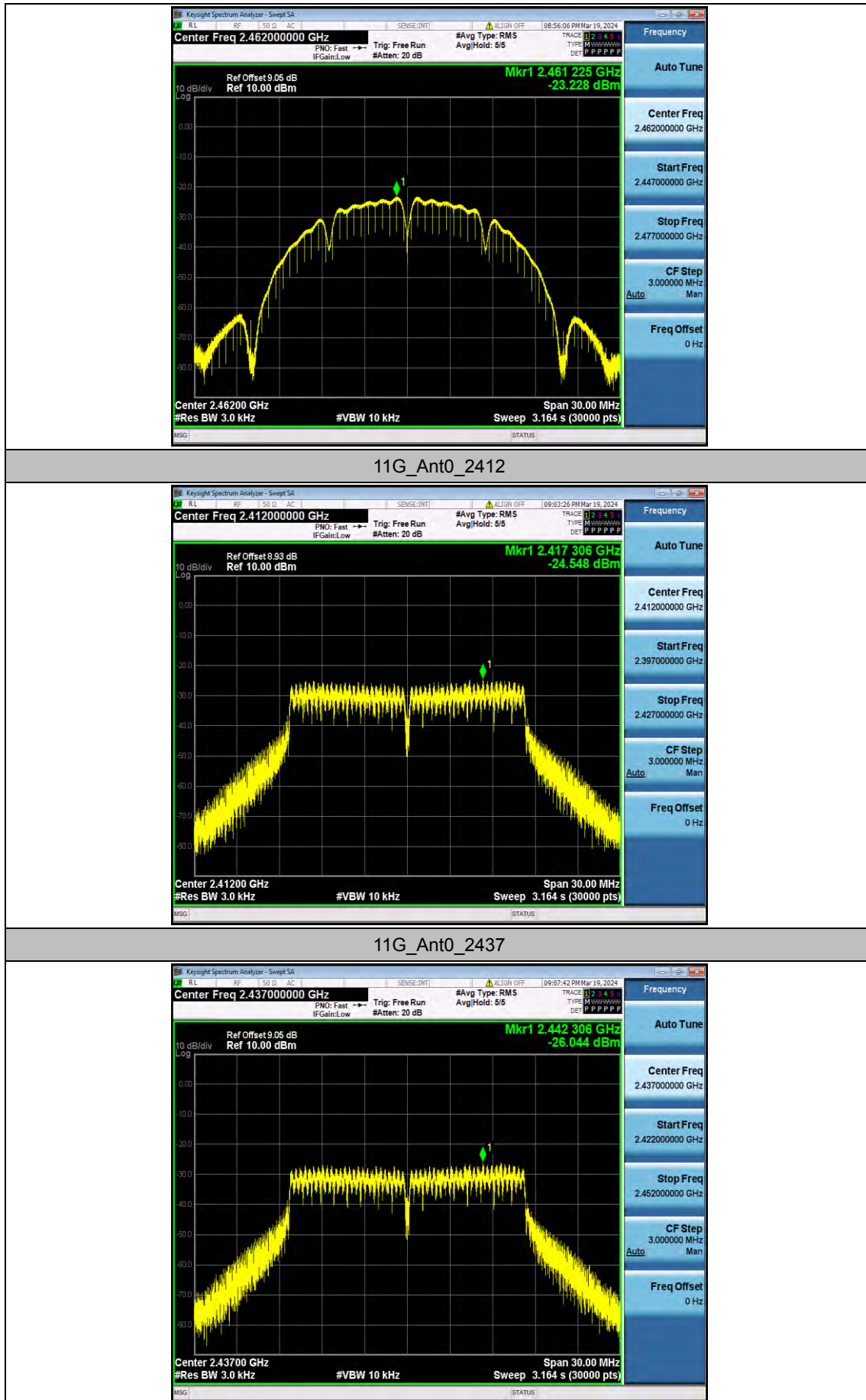
11B\_Ant0\_2412



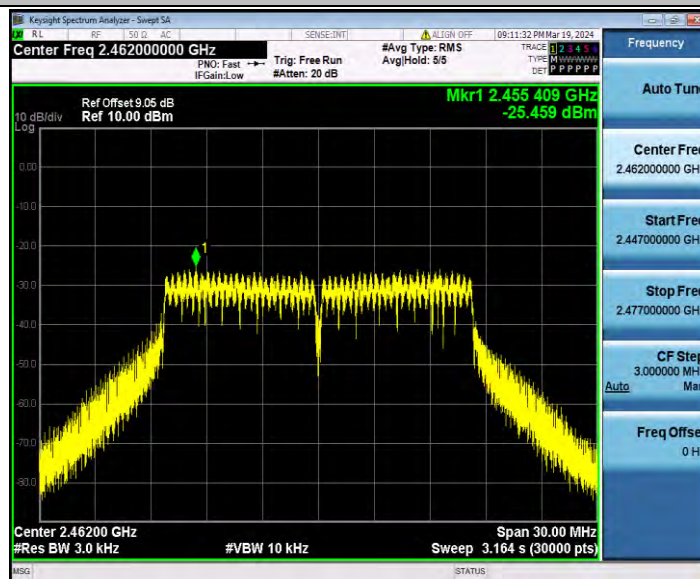
11B\_Ant0\_2437



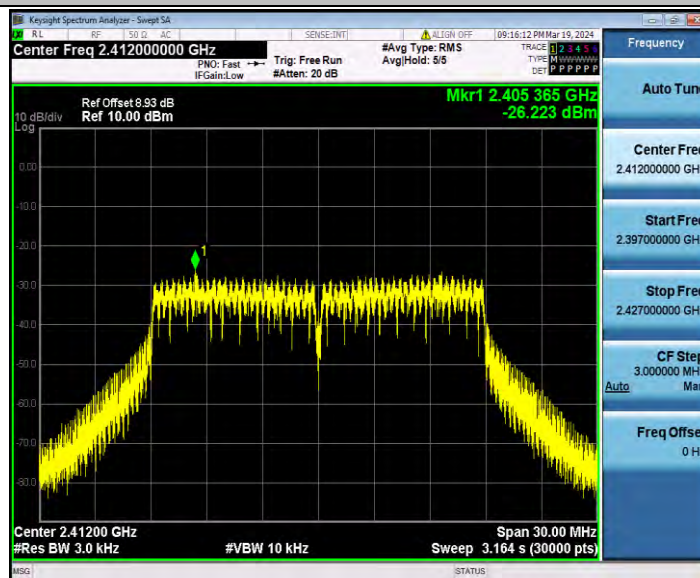
11B\_Ant0\_2462



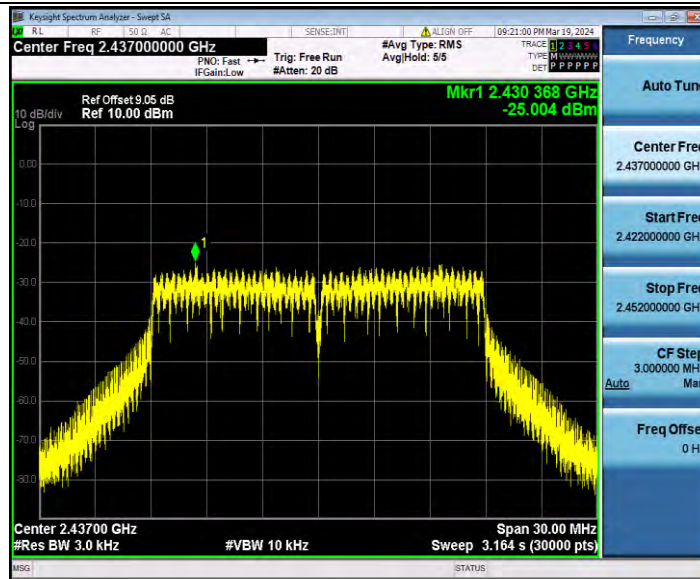
## 11G\_Ant0\_2462



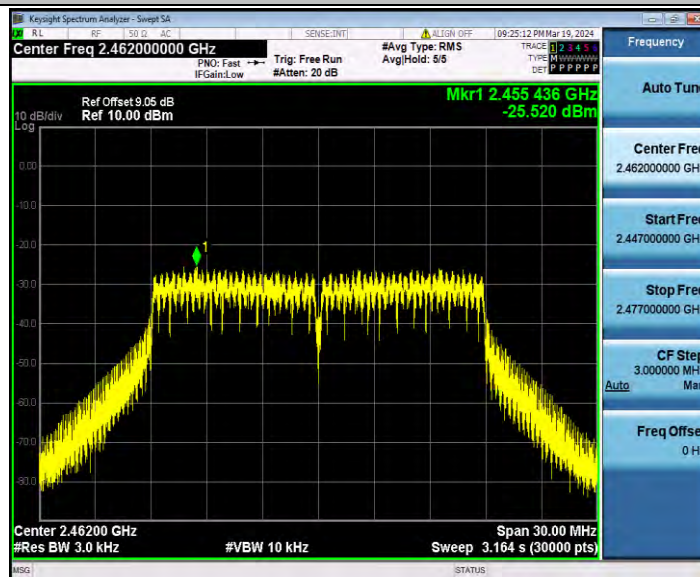
## 11N20SISO\_Ant0\_2412



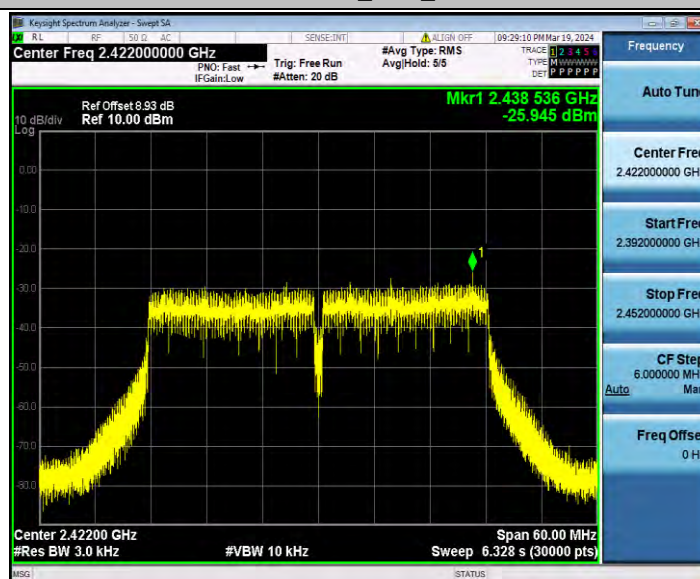
## 11N20SISO\_Ant0\_2437



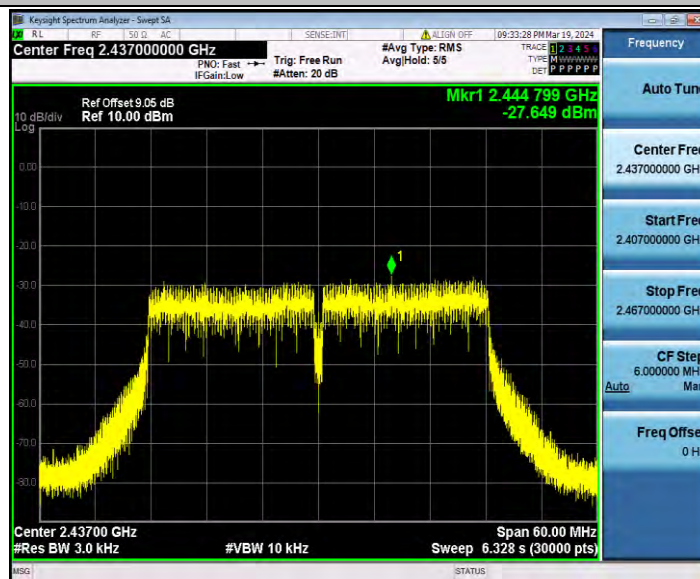
11N20SISO\_Ant0\_2462



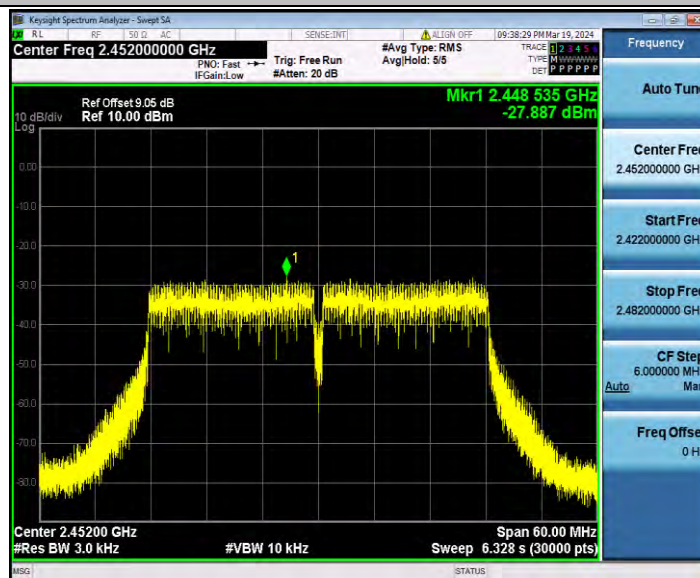
11N40SISO\_Ant0\_2422



## 11N40SISO\_Ant0\_2437



## 11N40SISO\_Ant0\_2452



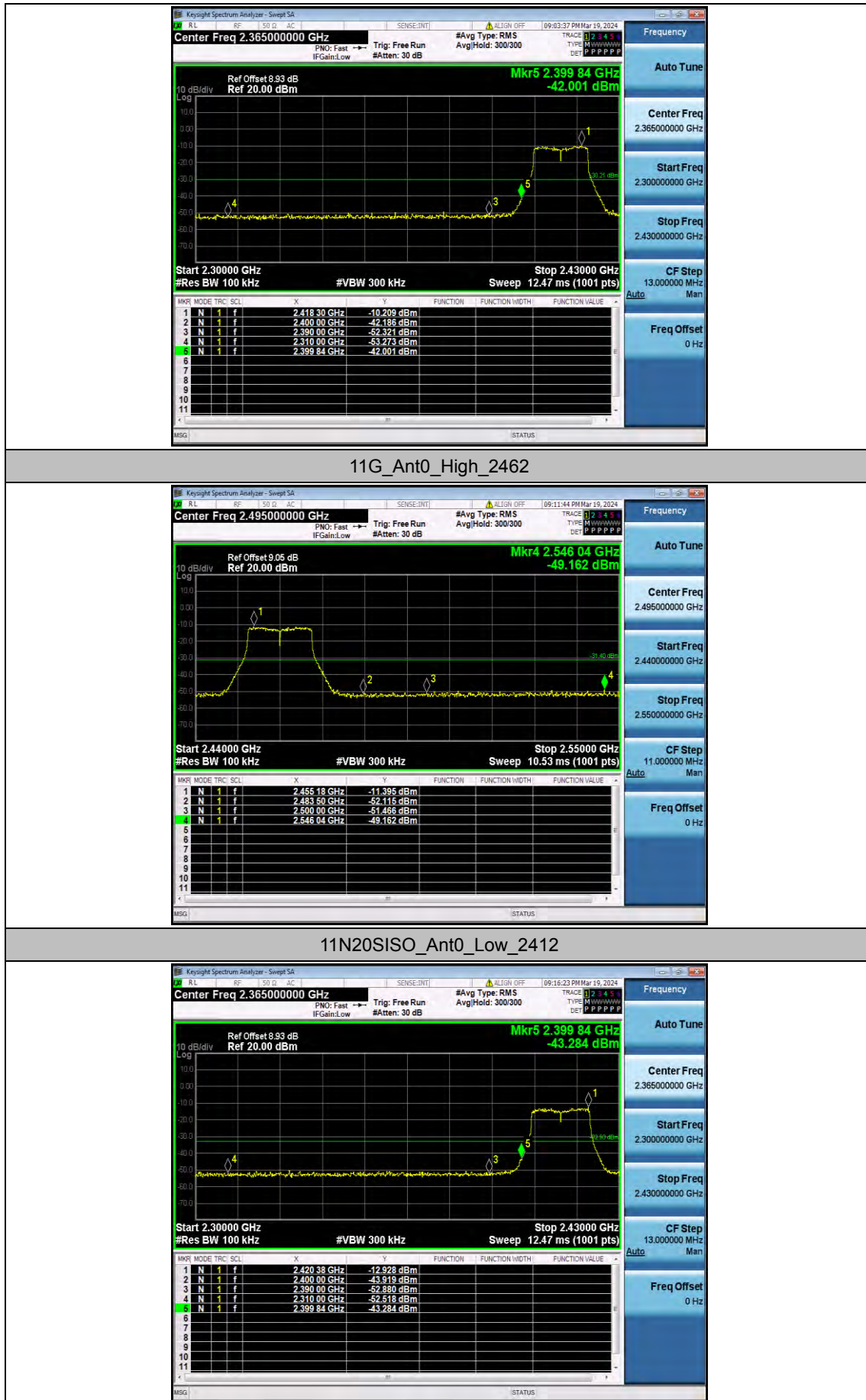
## Appendix C.5: Band edge measurements

### Test Result

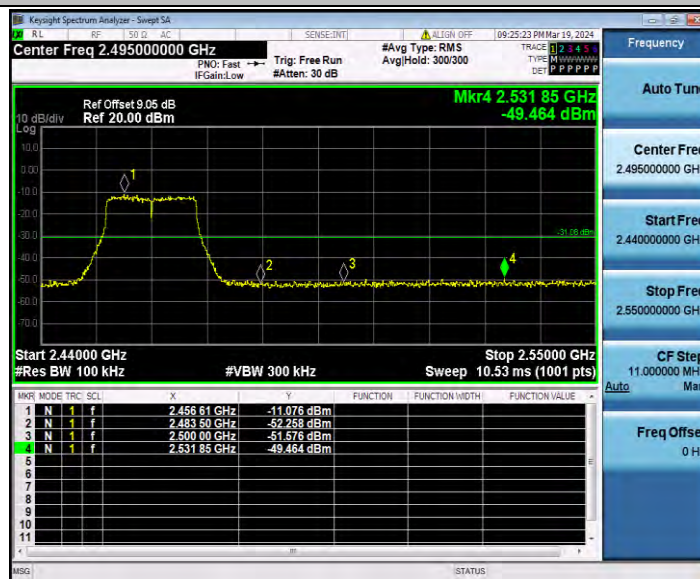
| TestMode  | Antenna | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|-----------|---------|--------|----------------|---------------|-------------|---------------|---------|
| 11B       | Ant0    | Low    | 2412           | -4.99         | -43.86      | $\leq -24.99$ | PASS    |
|           |         | High   | 2462           | -3.11         | -49.61      | $\leq -23.11$ | PASS    |
| 11G       | Ant0    | Low    | 2412           | -10.21        | -42         | $\leq -30.21$ | PASS    |
|           |         | High   | 2462           | -11.40        | -49.16      | $\leq -31.4$  | PASS    |
| 11N20SISO | Ant0    | Low    | 2412           | -12.93        | -43.28      | $\leq -32.93$ | PASS    |
|           |         | High   | 2462           | -11.08        | -49.46      | $\leq -31.08$ | PASS    |
| 11N40SISO | Ant0    | Low    | 2422           | -15.73        | -44.94      | $\leq -35.73$ | PASS    |
|           |         | High   | 2452           | -14.59        | -49.03      | $\leq -34.59$ | PASS    |

Test Graphs

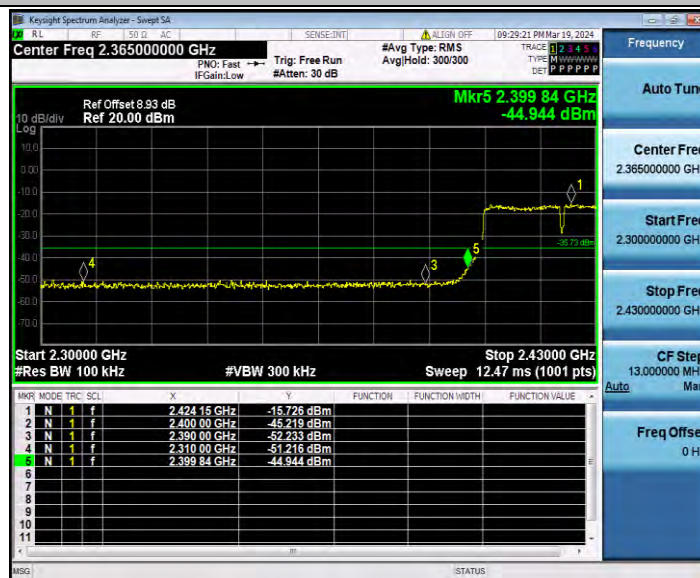




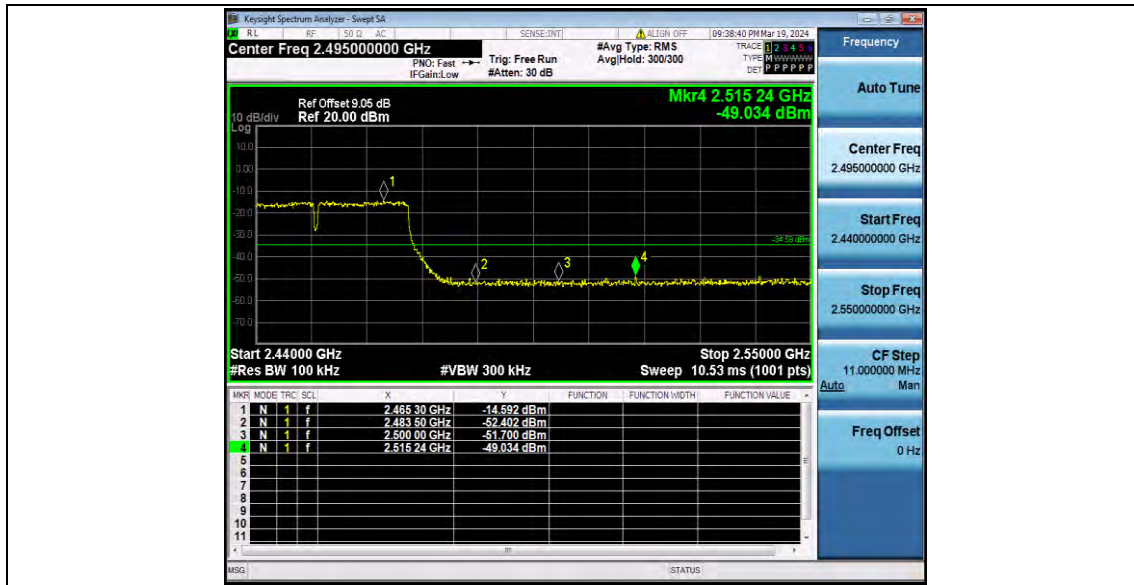
## 11N20SISO\_Ant0\_High\_2462



## 11N40SISO\_Ant0\_Low\_2422



## 11N40SISO\_Ant0\_High\_2452

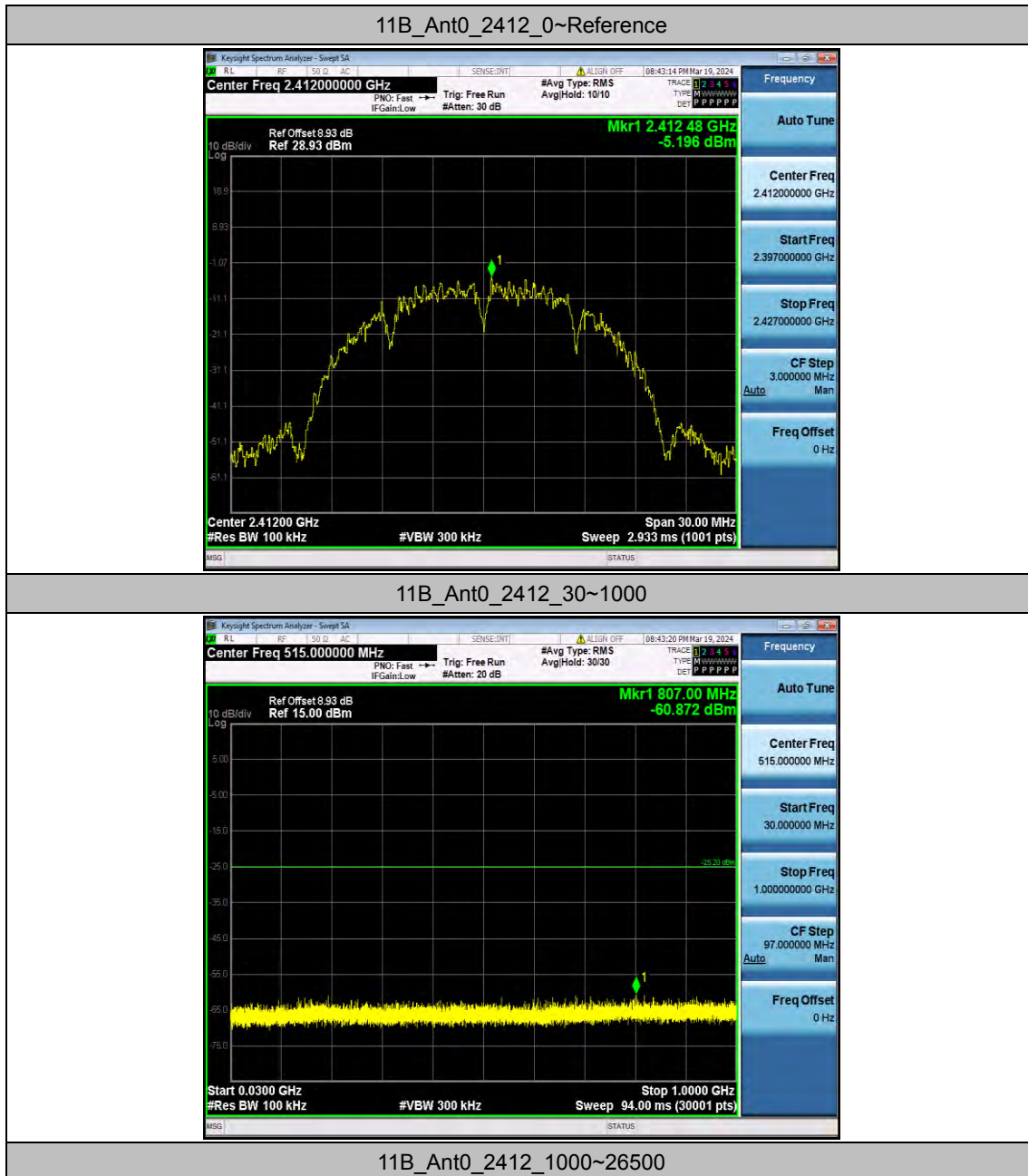


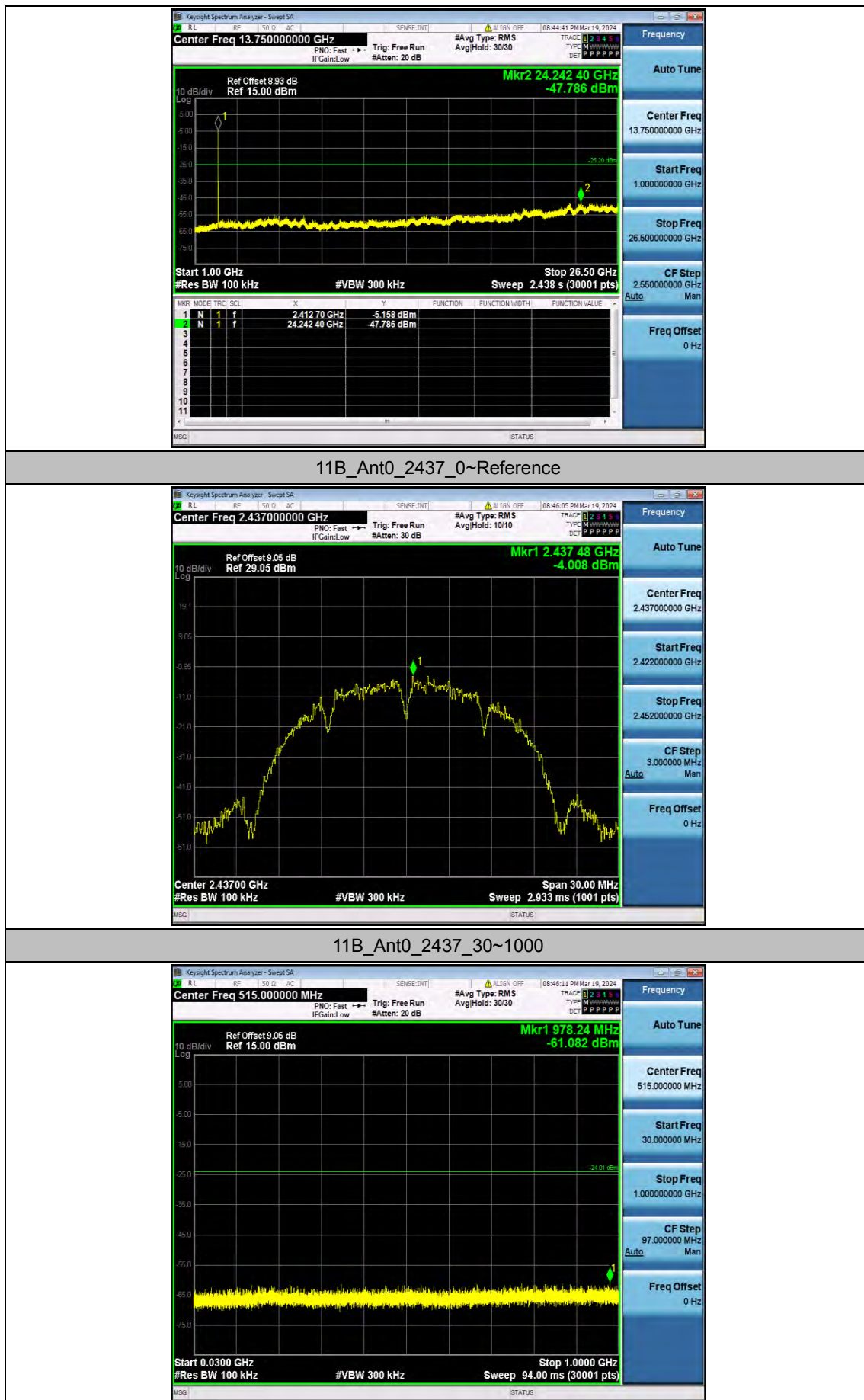
## Appendix C.6: Conducted Spurious Emission

### Test Result

| TestMode  | Antenna | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm]   | Verdict |
|-----------|---------|----------------|-----------------|----------------|--------------|---------------|---------|
| 11B       | Ant0    | 2412           | Reference       | -5.20          | -5.20        | ---           | PASS    |
|           |         |                | 30~1000         | -5.20          | -60.87       | $\leq -25.2$  | PASS    |
|           |         |                | 1000~26500      | -5.20          | -47.79       | $\leq -25.2$  | PASS    |
|           |         | 2437           | Reference       | -4.01          | -4.01        | ---           | PASS    |
|           |         |                | 30~1000         | -4.01          | -61.08       | $\leq -24.01$ | PASS    |
|           |         |                | 1000~26500      | -4.01          | -47.39       | $\leq -24.01$ | PASS    |
|           |         | 2462           | Reference       | -3.57          | -3.57        | ---           | PASS    |
|           |         |                | 30~1000         | -3.57          | -60.35       | $\leq -23.57$ | PASS    |
|           |         |                | 1000~26500      | -3.57          | -47.88       | $\leq -23.57$ | PASS    |
| 11G       | Ant0    | 2412           | Reference       | -11.10         | -11.10       | ---           | PASS    |
|           |         |                | 30~1000         | -11.10         | -61          | $\leq -31.1$  | PASS    |
|           |         |                | 1000~26500      | -11.10         | -48.5        | $\leq -31.1$  | PASS    |
|           |         | 2437           | Reference       | -12.82         | -12.82       | ---           | PASS    |
|           |         |                | 30~1000         | -12.82         | -60.48       | $\leq -32.82$ | PASS    |
|           |         |                | 1000~26500      | -12.82         | -48.09       | $\leq -32.82$ | PASS    |
|           |         | 2462           | Reference       | -11.65         | -11.65       | ---           | PASS    |
|           |         |                | 30~1000         | -11.65         | -60.92       | $\leq -31.65$ | PASS    |
|           |         |                | 1000~26500      | -11.65         | -47.77       | $\leq -31.65$ | PASS    |
| 11N20SISO | Ant0    | 2412           | Reference       | -13.22         | -13.22       | ---           | PASS    |
|           |         |                | 30~1000         | -13.22         | -61.22       | $\leq -33.22$ | PASS    |
|           |         |                | 1000~26500      | -13.22         | -46.21       | $\leq -33.22$ | PASS    |
|           |         | 2437           | Reference       | -12.22         | -12.22       | ---           | PASS    |
|           |         |                | 30~1000         | -12.22         | -60.48       | $\leq -32.22$ | PASS    |
|           |         |                | 1000~26500      | -12.22         | -47.74       | $\leq -32.22$ | PASS    |
|           |         | 2462           | Reference       | -12.36         | -12.36       | ---           | PASS    |
|           |         |                | 30~1000         | -12.36         | -60.61       | $\leq -32.36$ | PASS    |
|           |         |                | 1000~26500      | -12.36         | -48.42       | $\leq -32.36$ | PASS    |
| 11N40SISO | Ant0    | 2422           | Reference       | -15.62         | -15.62       | ---           | PASS    |
|           |         |                | 30~1000         | -15.62         | -60.47       | $\leq -35.62$ | PASS    |
|           |         |                | 1000~26500      | -15.62         | -47.87       | $\leq -35.62$ | PASS    |
|           |         | 2437           | Reference       | -15.31         | -15.31       | ---           | PASS    |
|           |         |                | 30~1000         | -15.31         | -60.7        | $\leq -35.31$ | PASS    |
|           |         |                | 1000~26500      | -15.31         | -46.74       | $\leq -35.31$ | PASS    |
|           |         | 2452           | Reference       | -14.98         | -14.98       | ---           | PASS    |
|           |         |                | 30~1000         | -14.98         | -60.62       | $\leq -34.98$ | PASS    |
|           |         |                | 1000~26500      | -14.98         | -48.13       | $\leq -34.98$ | PASS    |

## Test Graphs





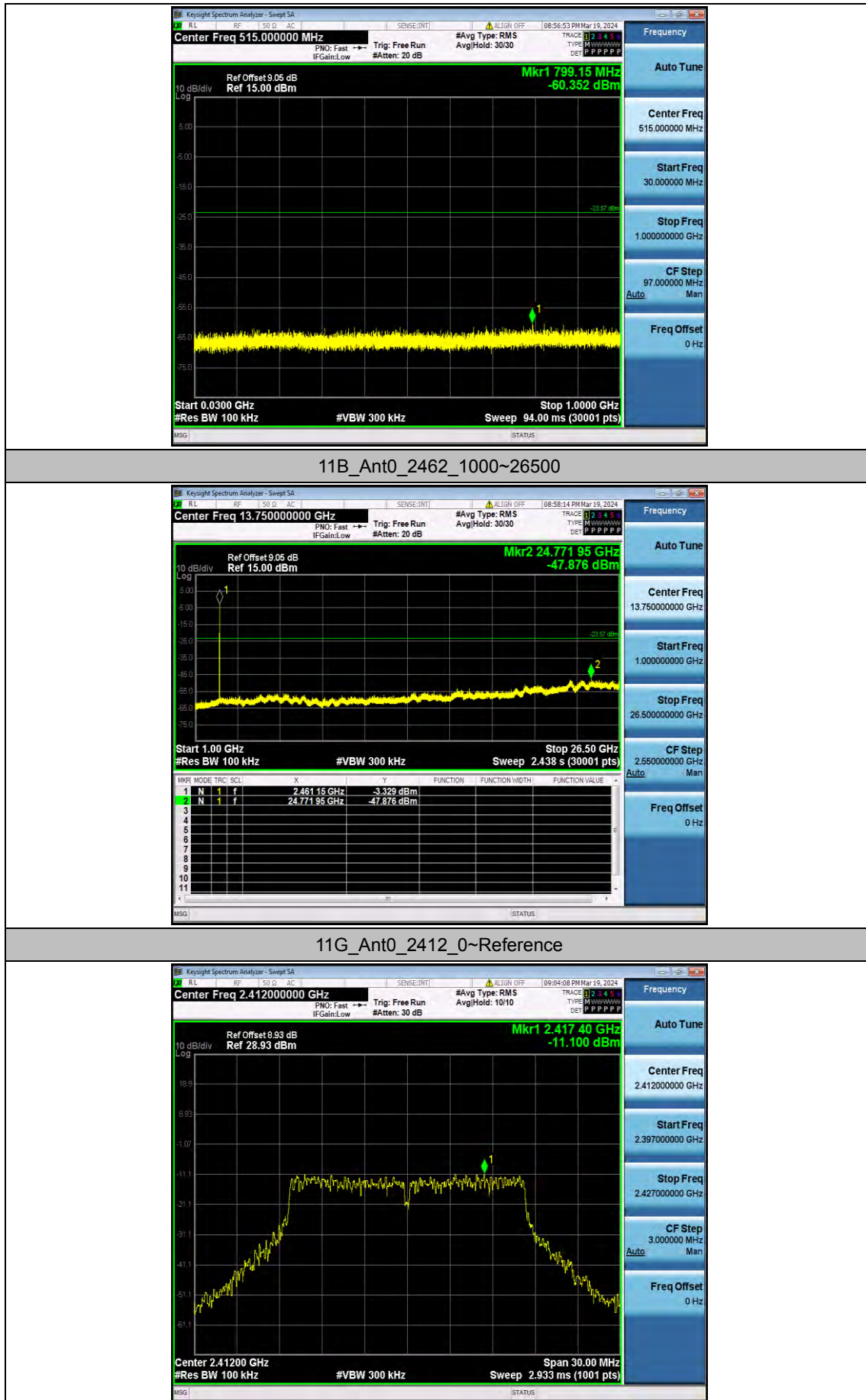
## 11B\_Ant0\_2437\_1000~26500



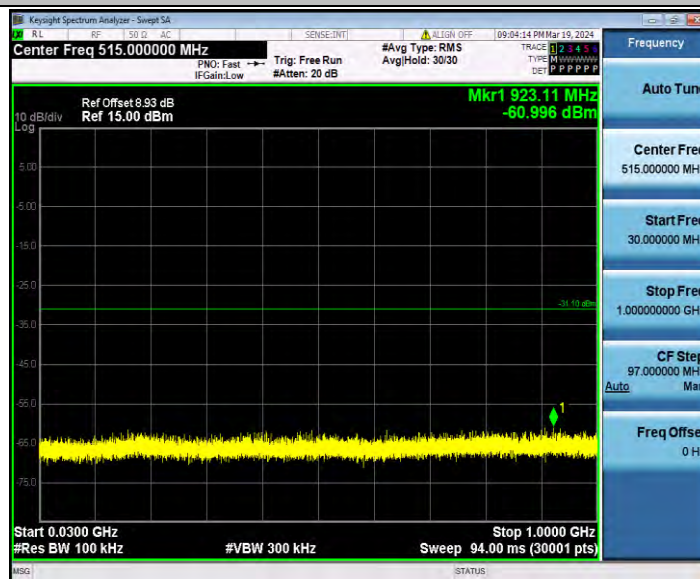
## 11B\_Ant0\_2462\_0~Reference



## 11B\_Ant0\_2462\_30~1000



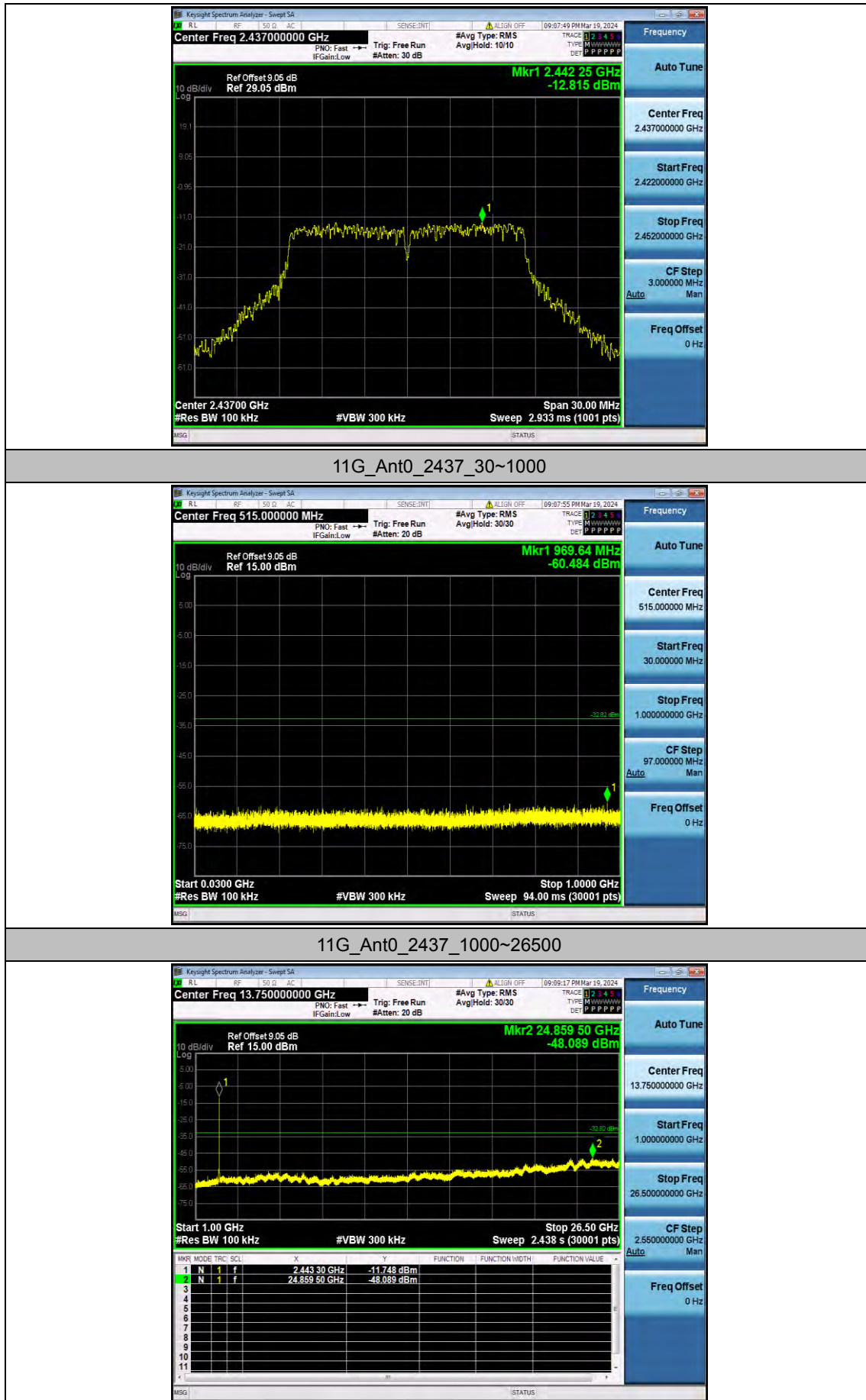
## 11G\_Ant0\_2412\_30~1000

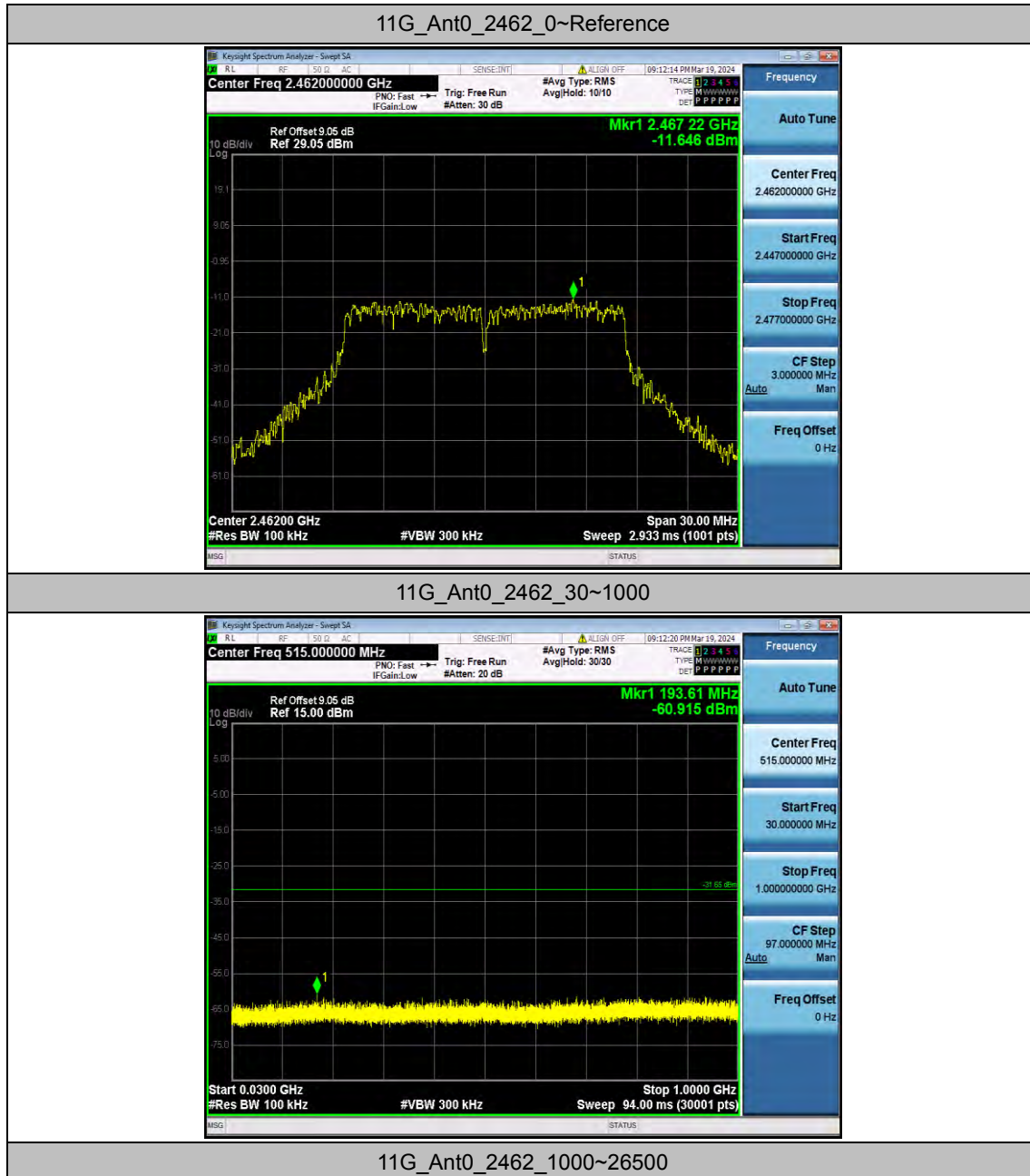


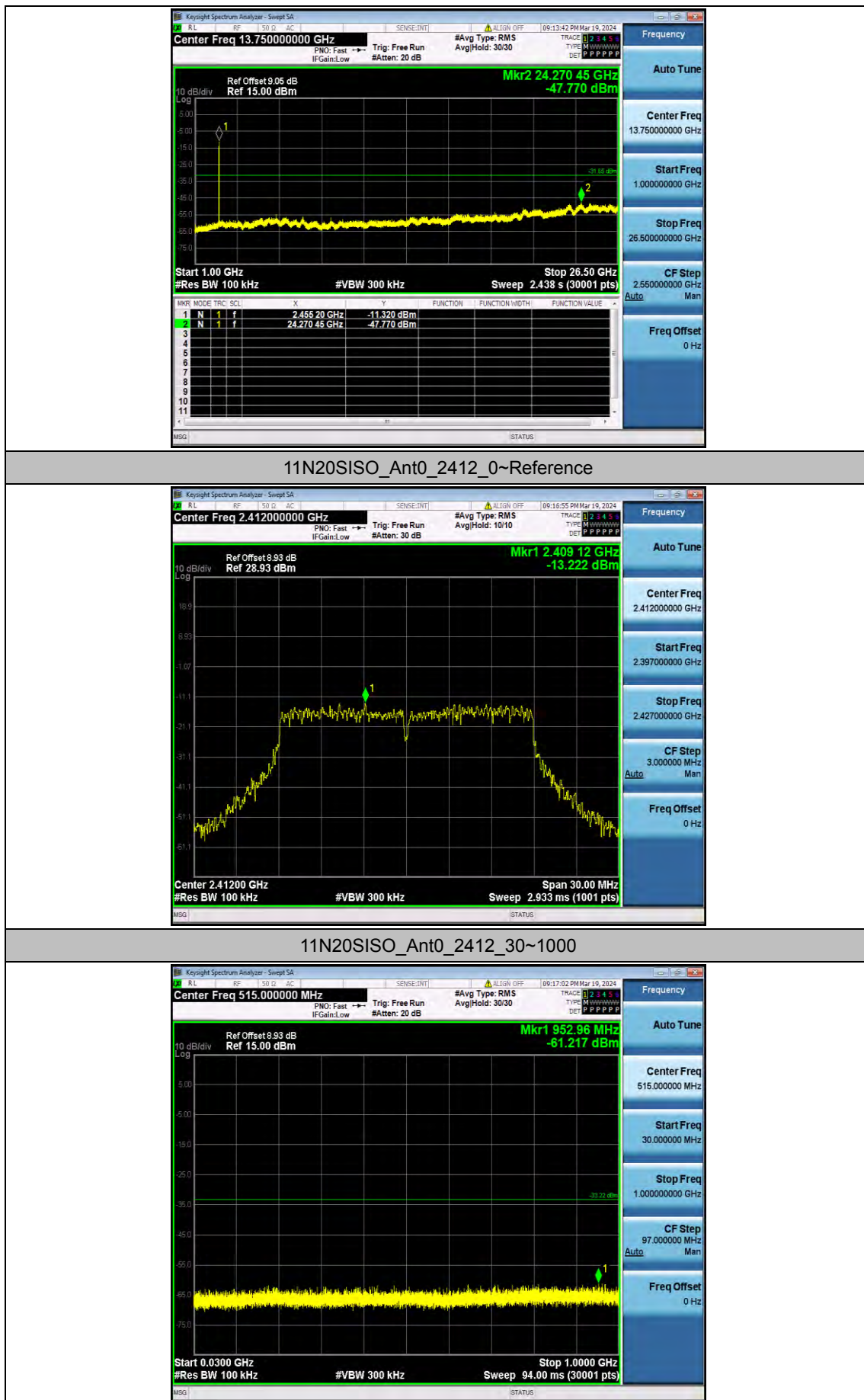
## 11G\_Ant0\_2412\_1000~26500



## 11G\_Ant0\_2437\_0~Reference



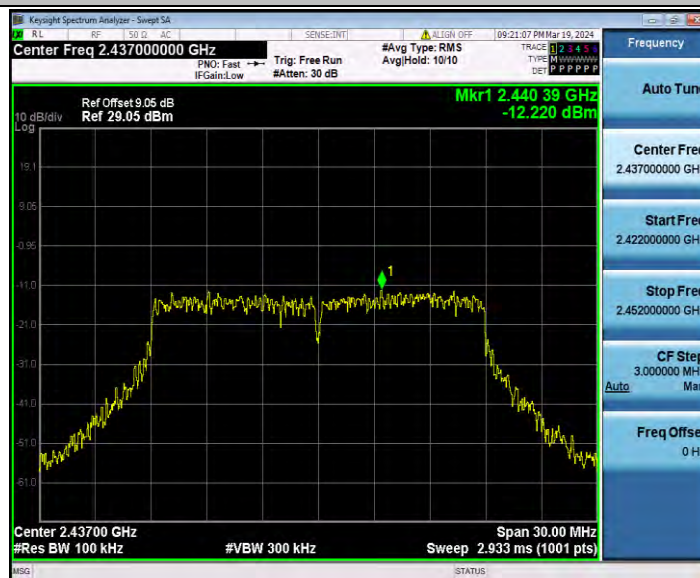




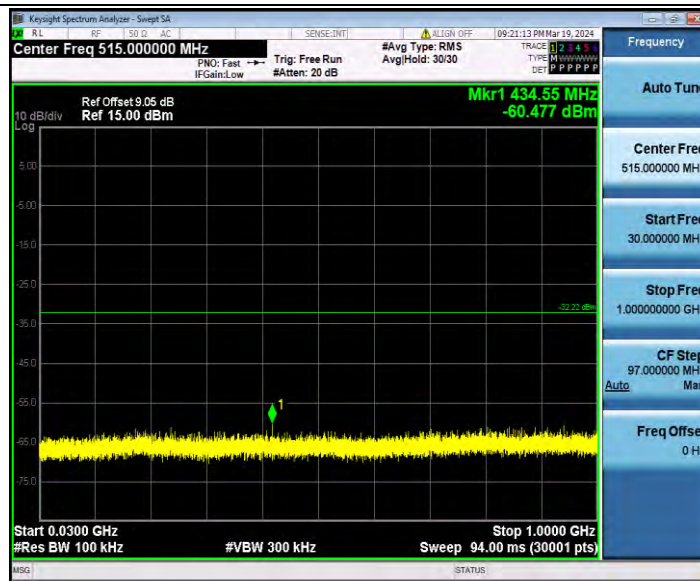
## 11N20SISO\_Ant0\_2412\_1000~26500



## 11N20SISO\_Ant0\_2437\_0~Reference



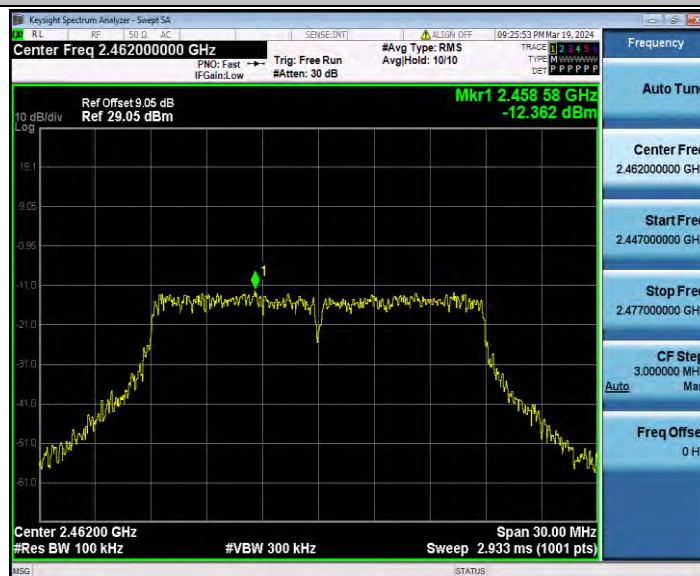
## 11N20SISO\_Ant0\_2437\_30~1000



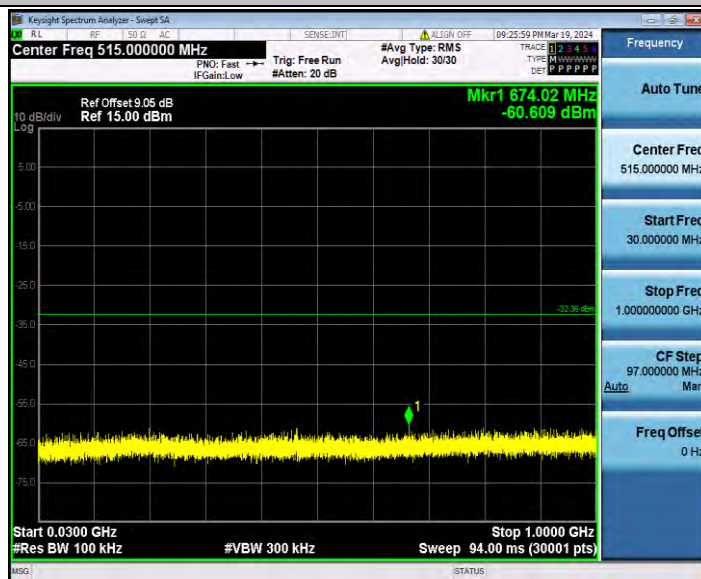
11N20SISO\_Ant0\_2437\_1000~26500



11N20SISO\_Ant0\_2462\_0~Reference



## 11N20SISO\_Ant0\_2462\_30~1000



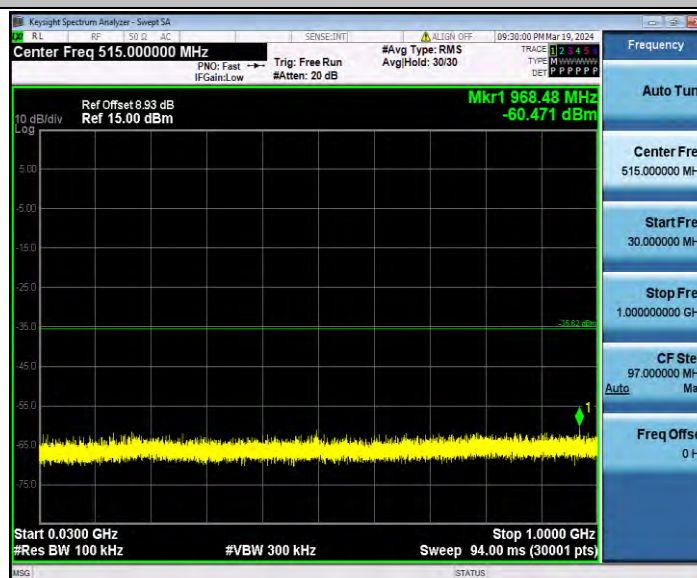
## 11N20SISO\_Ant0\_2462\_1000~26500



## 11N40SISO\_Ant0\_2422\_0~Reference



11N40SISO\_Ant0\_2422\_30~1000



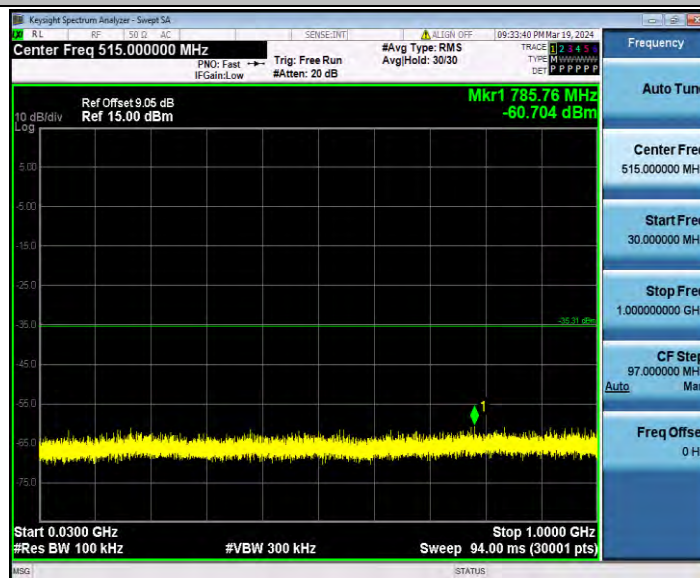
11N40SISO\_Ant0\_2422\_1000~26500



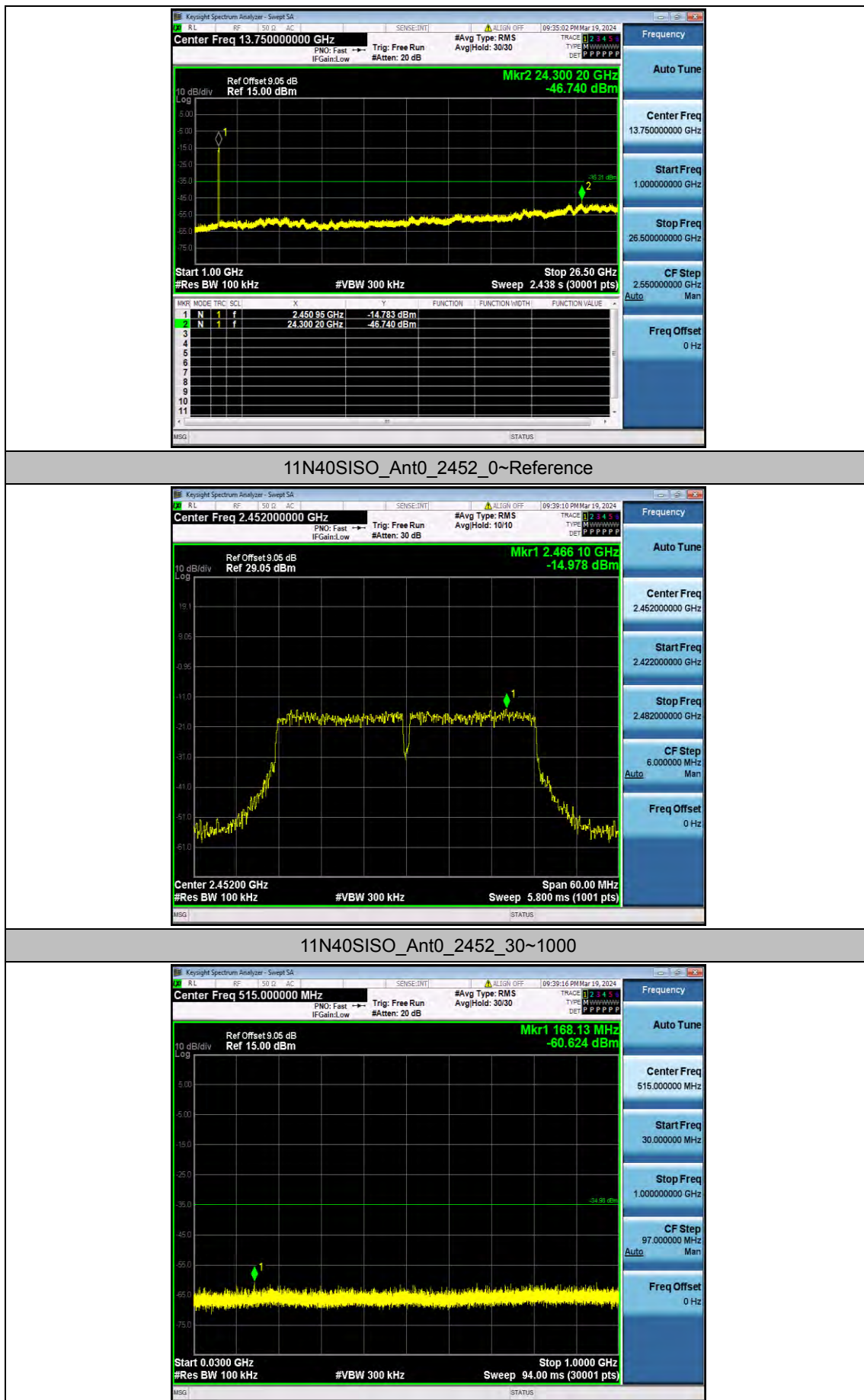
## 11N40SISO\_Ant0\_2437\_0~Reference

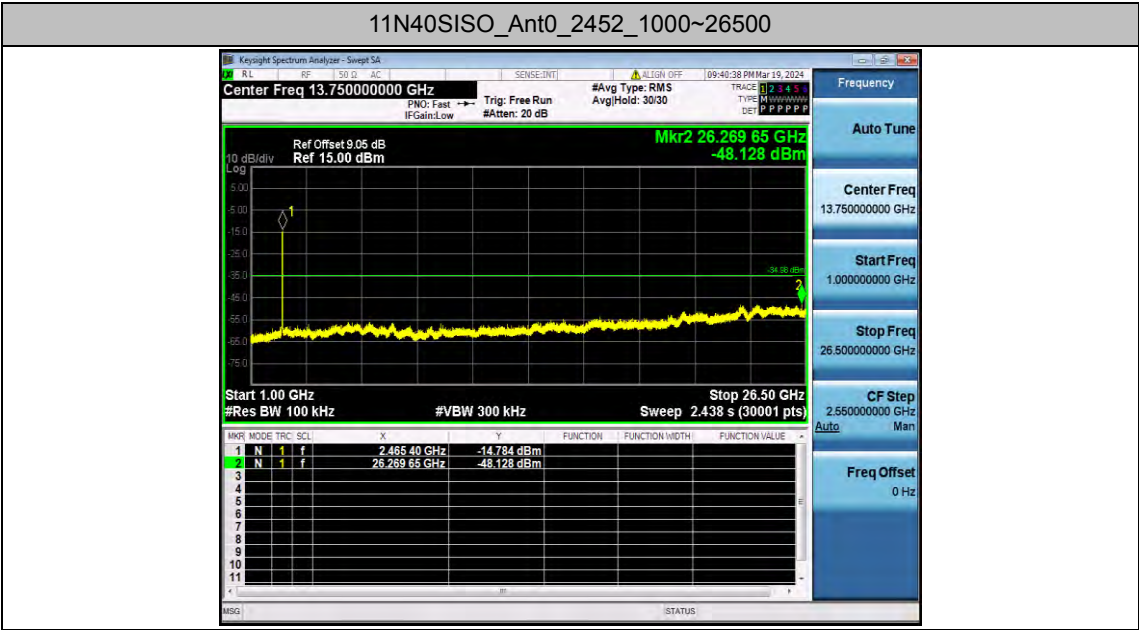


## 11N40SISO\_Ant0\_2437\_30~1000



## 11N40SISO\_Ant0\_2437\_1000~26500





## Appendix C.7: Emissions in Restricted Bands

### Test Result

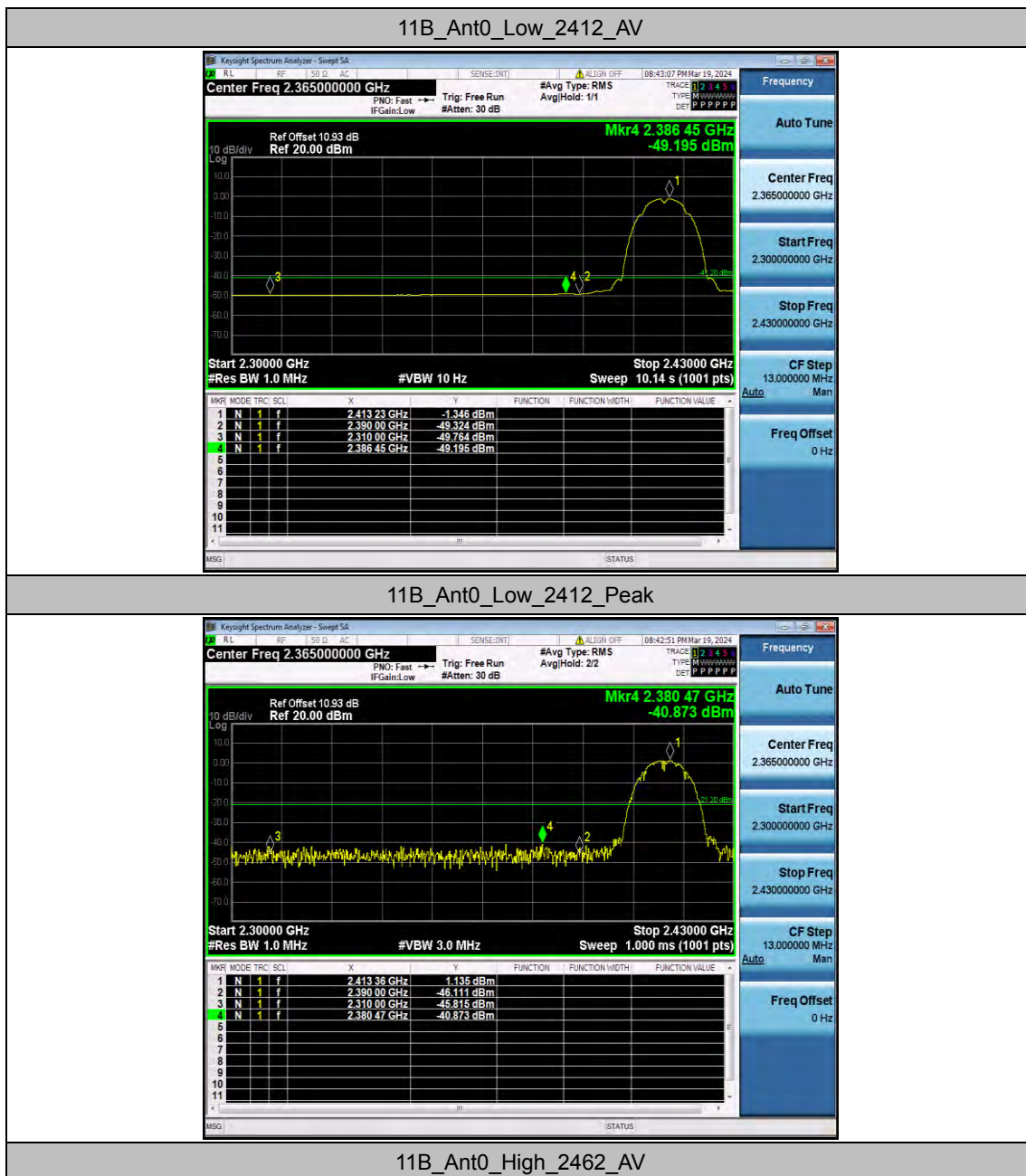
| TestMode      | Antenna | ChName | Frequenc<br>y[MHz] | Detector | Freq<br>[MHz] | Result<br>[dBm] | Limit<br>[dBm] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Verdict |
|---------------|---------|--------|--------------------|----------|---------------|-----------------|----------------|--------------------|-------------------|---------|
| 11B           | Ant0    | Low    | 2412               | AV       | 2310.000      | -49.76          | ≤-41.20        | 45.44              | ≤54               | PASS    |
|               |         |        |                    | AV       | 2386.450      | -49.2           | ≤-41.20        | 46.00              | ≤54               | PASS    |
|               |         |        |                    | AV       | 2390.000      | -49.32          | ≤-41.20        | 45.88              | ≤54               | PASS    |
|               |         |        |                    | Peak     | 2310.000      | -45.82          | ≤-21.20        | 49.38              | ≤74               | PASS    |
|               |         |        |                    | Peak     | 2380.470      | -40.87          | ≤-21.20        | 54.33              | ≤74               | PASS    |
|               |         |        |                    | Peak     | 2390.000      | -46.11          | ≤-21.20        | 49.09              | ≤74               | PASS    |
|               |         | High   | 2462               | AV       | 2483.500      | -49.21          | ≤-41.20        | 45.99              | ≤54               | PASS    |
|               |         |        |                    | AV       | 2497.200      | -49.02          | ≤-41.20        | 46.18              | ≤54               | PASS    |
|               |         |        |                    | AV       | 2500.000      | -49.03          | ≤-41.20        | 46.17              | ≤54               | PASS    |
|               |         |        |                    | Peak     | 2483.500      | -46.25          | ≤-21.20        | 48.95              | ≤74               | PASS    |
|               |         |        |                    | Peak     | 2494.010      | -41.15          | ≤-21.20        | 54.05              | ≤74               | PASS    |
|               |         |        |                    | Peak     | 2500.000      | -43.78          | ≤-21.20        | 51.42              | ≤74               | PASS    |
| 11G           | Ant0    | Low    | 2412               | AV       | 2310.000      | -49.66          | ≤-41.20        | 45.54              | ≤54               | PASS    |
|               |         |        |                    | AV       | 2389.960      | -49.07          | ≤-41.20        | 46.13              | ≤54               | PASS    |
|               |         |        |                    | AV       | 2390.000      | -49.07          | ≤-41.20        | 46.13              | ≤54               | PASS    |
|               |         |        |                    | Peak     | 2310.000      | -44.99          | ≤-21.20        | 50.21              | ≤74               | PASS    |
|               |         |        |                    | Peak     | 2357.070      | -39.83          | ≤-21.20        | 55.37              | ≤74               | PASS    |
|               |         |        |                    | Peak     | 2390.000      | -46.09          | ≤-21.20        | 49.11              | ≤74               | PASS    |
|               |         | High   | 2462               | AV       | 2483.500      | -49.14          | ≤-41.20        | 46.06              | ≤54               | PASS    |
|               |         |        |                    | AV       | 2499.950      | -49.01          | ≤-41.20        | 46.19              | ≤54               | PASS    |
|               |         |        |                    | AV       | 2500.000      | -49.01          | ≤-41.20        | 46.19              | ≤54               | PASS    |
|               |         |        |                    | Peak     | 2483.500      | -45.31          | ≤-21.20        | 49.89              | ≤74               | PASS    |
|               |         |        |                    | Peak     | 2487.410      | -40.86          | ≤-21.20        | 54.34              | ≤74               | PASS    |
|               |         |        |                    | Peak     | 2500.000      | -46.43          | ≤-21.20        | 48.77              | ≤74               | PASS    |
| 11N20SIS<br>O | Ant0    | Low    | 2412               | AV       | 2310.000      | -49.79          | ≤-41.20        | 45.41              | ≤54               | PASS    |
|               |         |        |                    | AV       | 2389.960      | -49.17          | ≤-41.20        | 46.03              | ≤54               | PASS    |
|               |         |        |                    | AV       | 2390.000      | -49.17          | ≤-41.20        | 46.03              | ≤54               | PASS    |
|               |         |        |                    | Peak     | 2310.000      | -48.61          | ≤-21.20        | 46.59              | ≤74               | PASS    |
|               |         |        |                    | Peak     | 2330.030      | -39.66          | ≤-21.20        | 55.54              | ≤74               | PASS    |
|               |         |        |                    | Peak     | 2390.000      | -44.47          | ≤-21.20        | 50.73              | ≤74               | PASS    |
|               |         | High   | 2462               | AV       | 2483.500      | -49.13          | ≤-41.20        | 46.07              | ≤54               | PASS    |
|               |         |        |                    | AV       | 2498.960      | -49.01          | ≤-41.20        | 46.19              | ≤54               | PASS    |
|               |         |        |                    | AV       | 2500.000      | -49.06          | ≤-41.20        | 46.14              | ≤54               | PASS    |
|               |         |        |                    | Peak     | 2483.500      | -51.34          | ≤-21.20        | 43.86              | ≤74               | PASS    |
|               |         |        |                    | Peak     | 2489.060      | -40.44          | ≤-21.20        | 54.76              | ≤74               | PASS    |

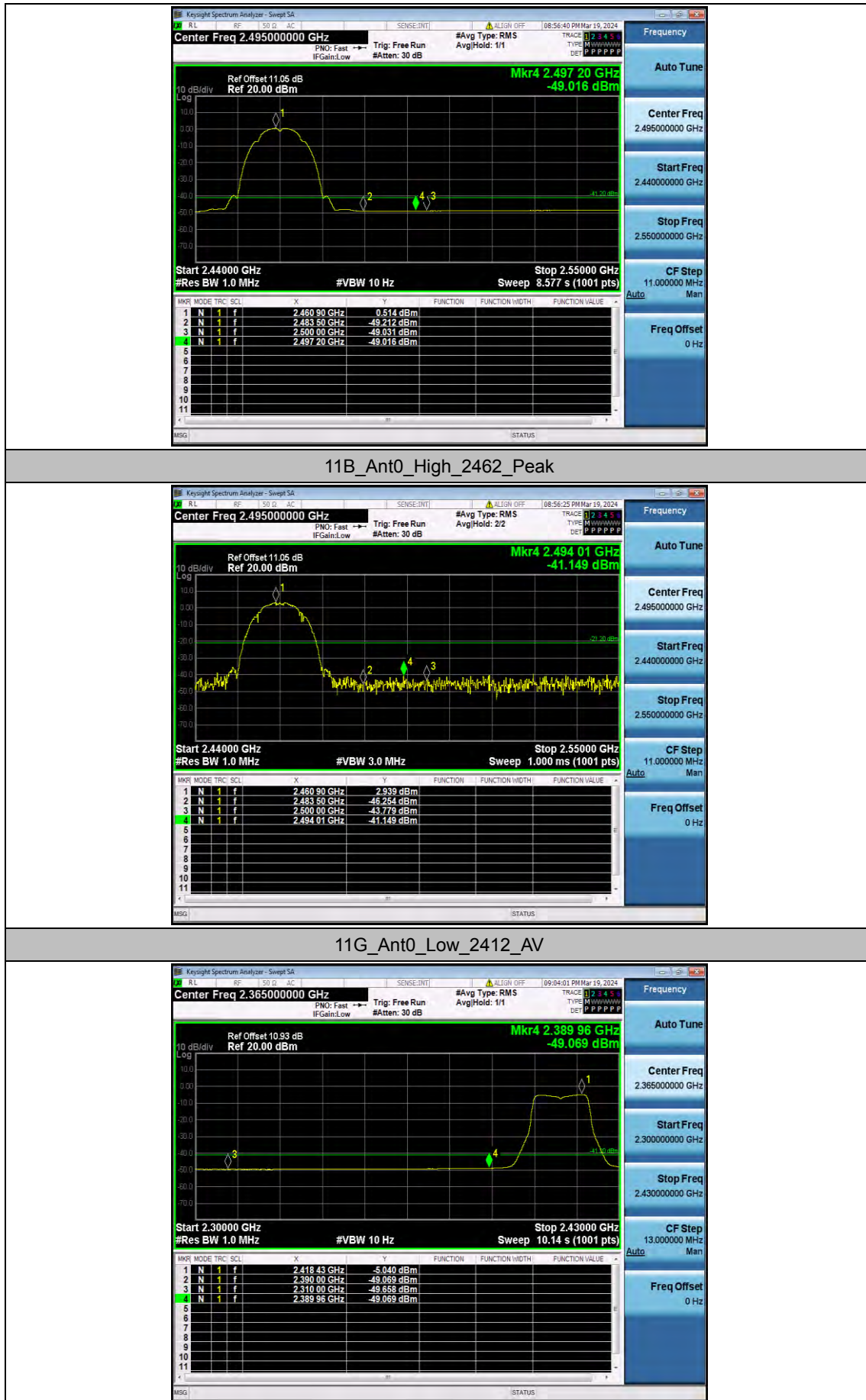
|               |      |      |      |      |          |        |               |       |           |      |
|---------------|------|------|------|------|----------|--------|---------------|-------|-----------|------|
|               |      |      |      | Peak | 2500.000 | -46.25 | $\leq -21.20$ | 48.95 | $\leq 74$ | PASS |
| 11N40SIS<br>O | Ant0 | Low  | 2422 | AV   | 2310.000 | -49.78 | $\leq -41.20$ | 45.42 | $\leq 54$ | PASS |
|               |      |      |      | AV   | 2389.700 | -48.85 | $\leq -41.20$ | 46.35 | $\leq 54$ | PASS |
|               |      |      |      | AV   | 2390.000 | -48.86 | $\leq -41.20$ | 46.34 | $\leq 54$ | PASS |
|               |      |      |      | Peak | 2310.000 | -47.1  | $\leq -21.20$ | 48.10 | $\leq 74$ | PASS |
|               |      |      |      | Peak | 2317.680 | -40.97 | $\leq -21.20$ | 54.23 | $\leq 74$ | PASS |
|               |      |      |      | Peak | 2390.000 | -44.49 | $\leq -21.20$ | 50.71 | $\leq 74$ | PASS |
|               |      | High | 2452 | AV   | 2483.500 | -49    | $\leq -41.20$ | 46.20 | $\leq 54$ | PASS |
|               |      |      |      | AV   | 2499.180 | -48.97 | $\leq -41.20$ | 46.23 | $\leq 54$ | PASS |
|               |      |      |      | AV   | 2500.000 | -49.01 | $\leq -41.20$ | 46.19 | $\leq 54$ | PASS |
|               |      |      |      | Peak | 2483.500 | -47.22 | $\leq -21.20$ | 47.98 | $\leq 74$ | PASS |
|               |      |      |      | Peak | 2489.060 | -42.08 | $\leq -21.20$ | 53.12 | $\leq 74$ | PASS |
|               |      |      |      | Peak | 2500.000 | -45.67 | $\leq -21.20$ | 49.53 | $\leq 74$ | PASS |

## Note:

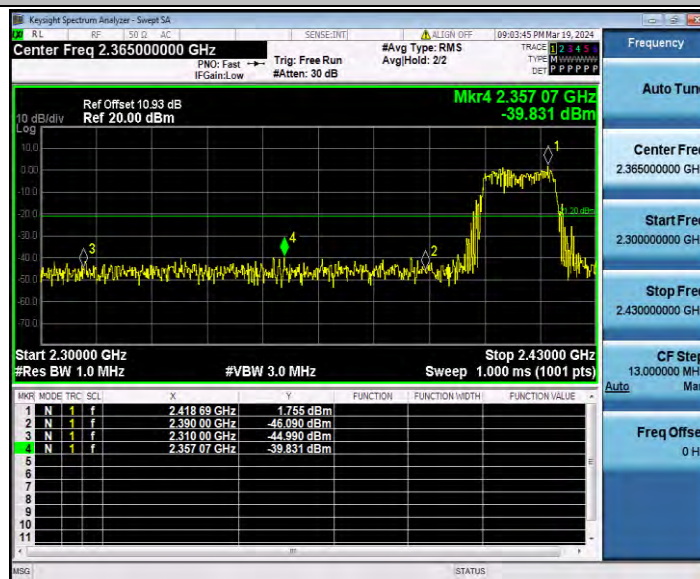
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

## Test Graphs

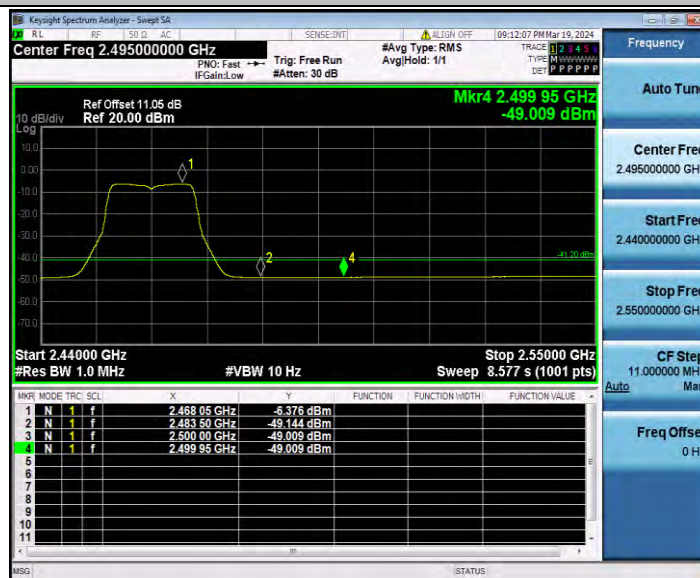




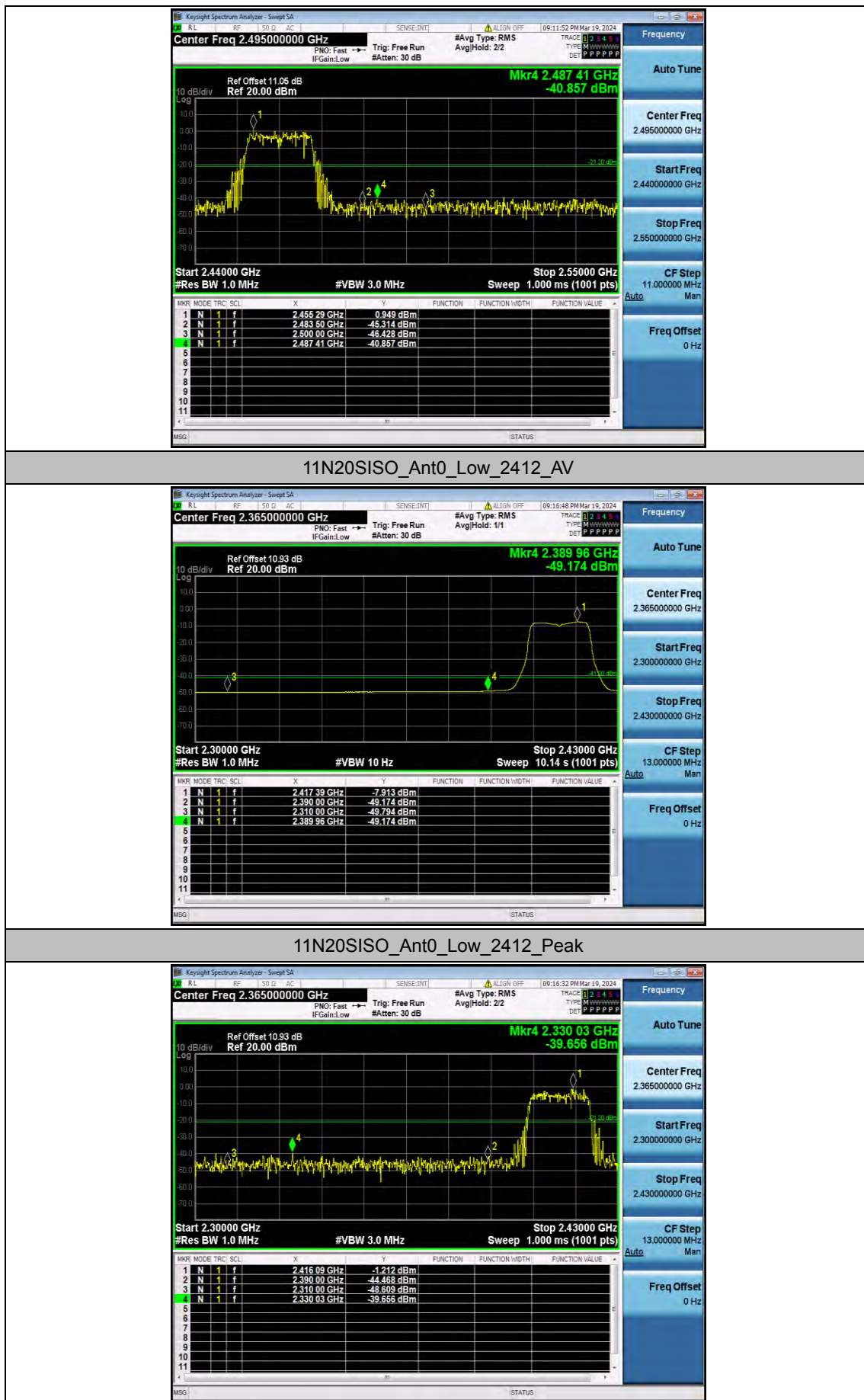
## 11G\_Ant0\_Low\_2412\_Peak



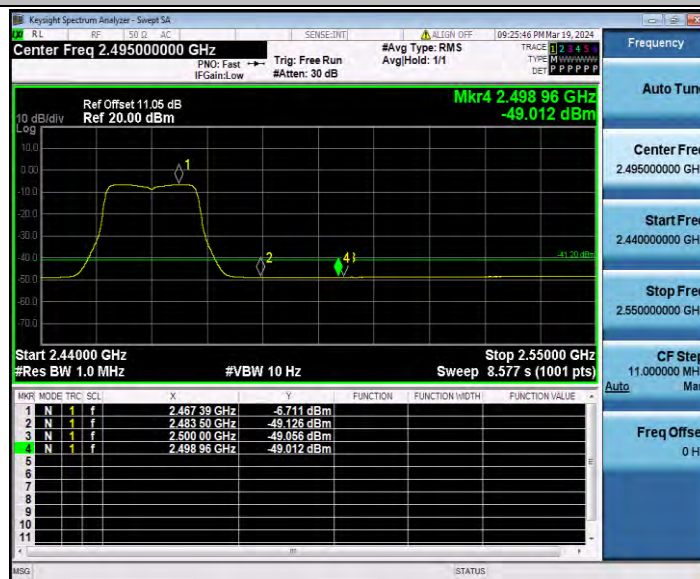
## 11G\_Ant0\_High\_2462\_AV



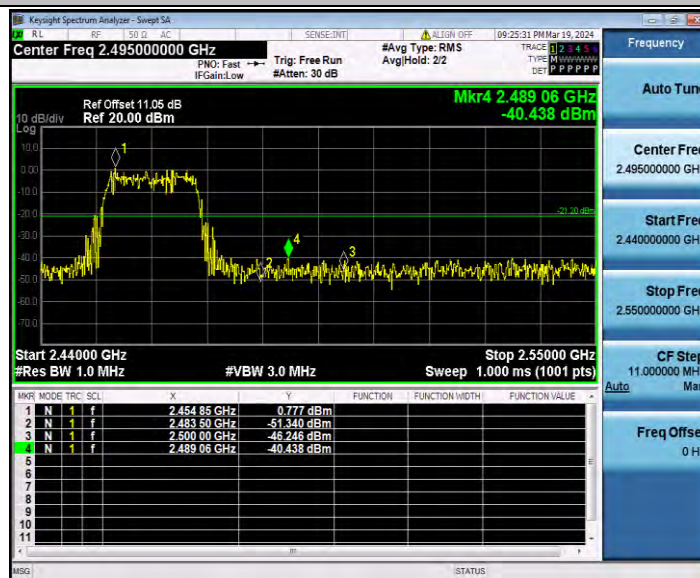
## 11G\_Ant0\_High\_2462\_Peak



## 11N20SISO\_Ant0\_High\_2462\_AV



## 11N20SISO\_Ant0\_High\_2462\_Peak



## 11N40SISO\_Ant0\_Low\_2422\_AV

