

## Appendix B

### RF Test Data for 2.4GWIFI (Conducted Measurement)

**Product Name: 2K Pan & Tilt Outdoor Wi-Fi Camera**

**Test Model: DCS-6530**

#### Environmental Conditions

|                    |              |
|--------------------|--------------|
| Temperature:       | 23.6°C       |
| Relative Humidity: | 54.3%        |
| ATM Pressure:      | 100.0 kPa    |
| Test Engineer:     | Zhang hai    |
| Supervised by:     | Fengliu Tang |

## B.1 DTS Bandwidth

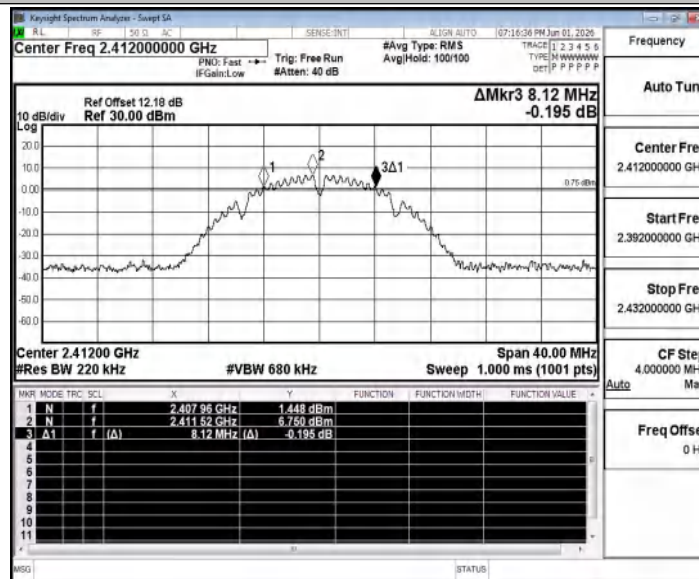
### Test Result

| TestMode   | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|----------------|--------------|----------|----------|------------|---------|
| 11B        | Ant1    | 2412           | 8.120        | 2407.960 | 2416.080 | 0.5        | PASS    |
|            |         | 2437           | 8.120        | 2432.960 | 2441.080 | 0.5        | PASS    |
|            |         | 2462           | 8.120        | 2457.960 | 2466.080 | 0.5        | PASS    |
| 11G        | Ant1    | 2412           | 15.760       | 2404.040 | 2419.800 | 0.5        | PASS    |
|            |         | 2437           | 16.000       | 2429.000 | 2445.000 | 0.5        | PASS    |
|            |         | 2462           | 15.880       | 2454.040 | 2469.920 | 0.5        | PASS    |
| 11N20SISO  | Ant1    | 2412           | 16.560       | 2403.720 | 2420.280 | 0.5        | PASS    |
|            |         | 2437           | 16.800       | 2428.600 | 2445.400 | 0.5        | PASS    |
|            |         | 2462           | 16.520       | 2453.440 | 2469.960 | 0.5        | PASS    |
| 11N40SISO  | Ant1    | 2422           | 36.000       | 2404.000 | 2440.000 | 0.5        | PASS    |
|            |         | 2437           | 35.680       | 2419.000 | 2454.680 | 0.5        | PASS    |
|            |         | 2452           | 35.760       | 2433.920 | 2469.680 | 0.5        | PASS    |
| 11AX20SISO | Ant1    | 2412           | 17.120       | 2403.400 | 2420.520 | 0.5        | PASS    |
|            |         | 2437           | 17.120       | 2428.440 | 2445.560 | 0.5        | PASS    |
|            |         | 2462           | 16.880       | 2453.640 | 2470.520 | 0.5        | PASS    |
| 11AX40SISO | Ant1    | 2422           | 34.800       | 2404.400 | 2439.200 | 0.5        | PASS    |
|            |         | 2437           | 35.680       | 2419.160 | 2454.840 | 0.5        | PASS    |
|            |         | 2452           | 36.080       | 2434.000 | 2470.080 | 0.5        | PASS    |

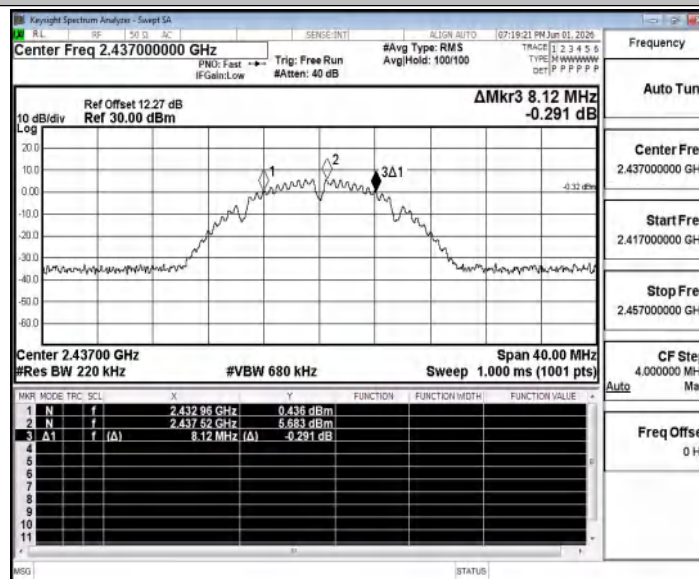
Note :offset=System attenuation +cabal loss

## Test Graphs

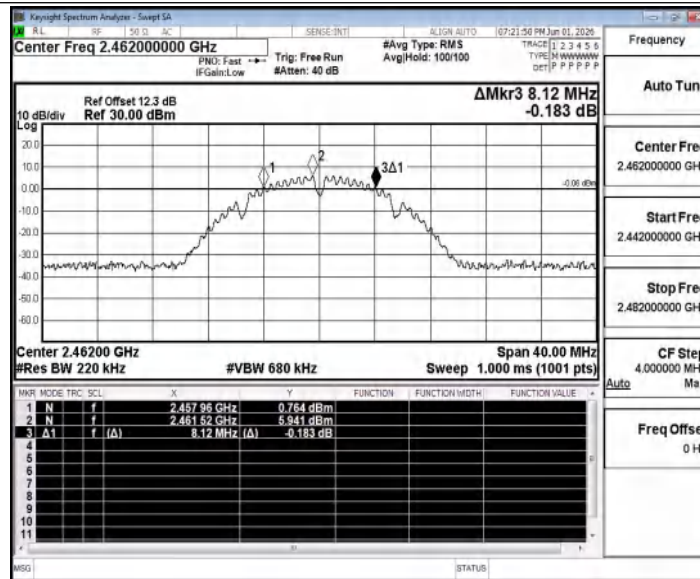
11B\_Ant1\_2412



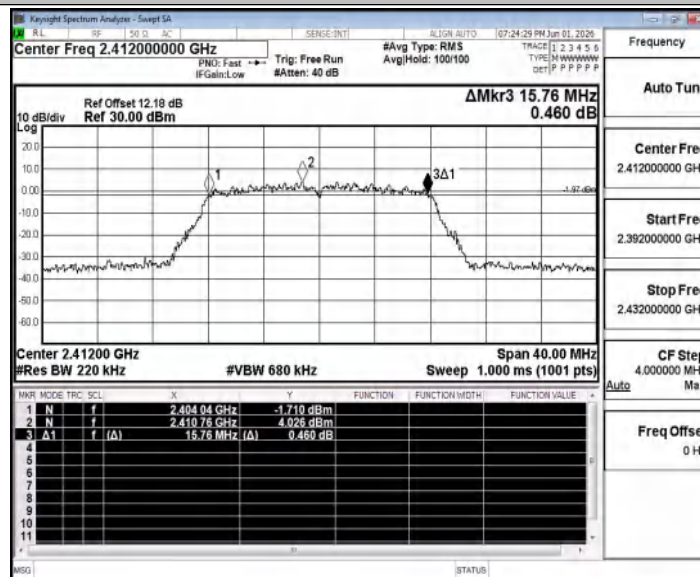
11B\_Ant1\_2437



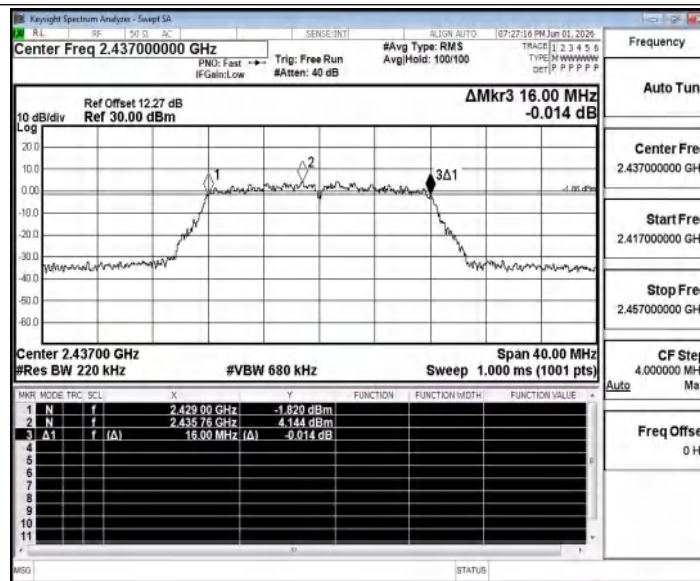
11B\_Ant1\_2462



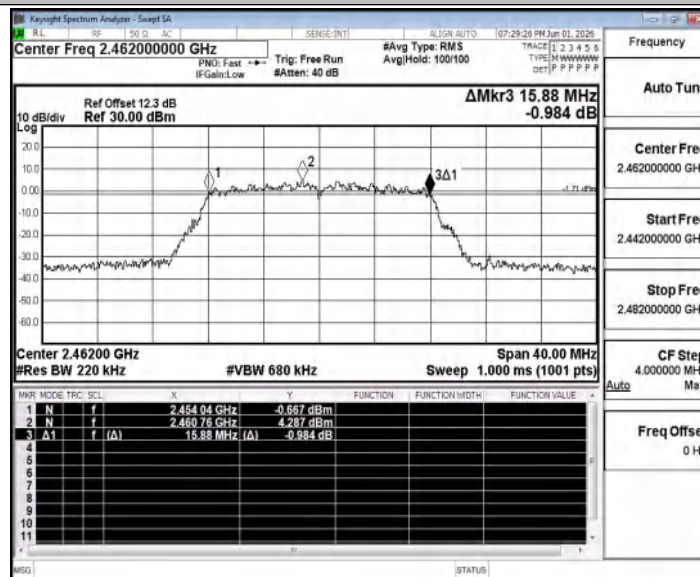
11G\_Ant1\_2412



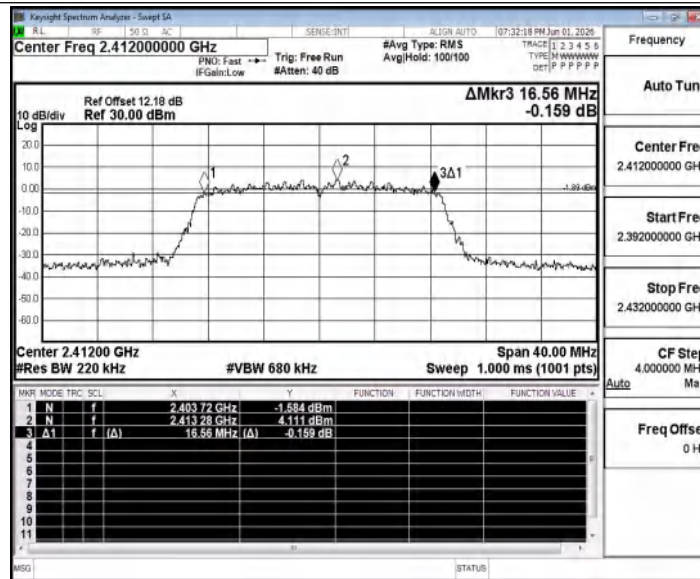
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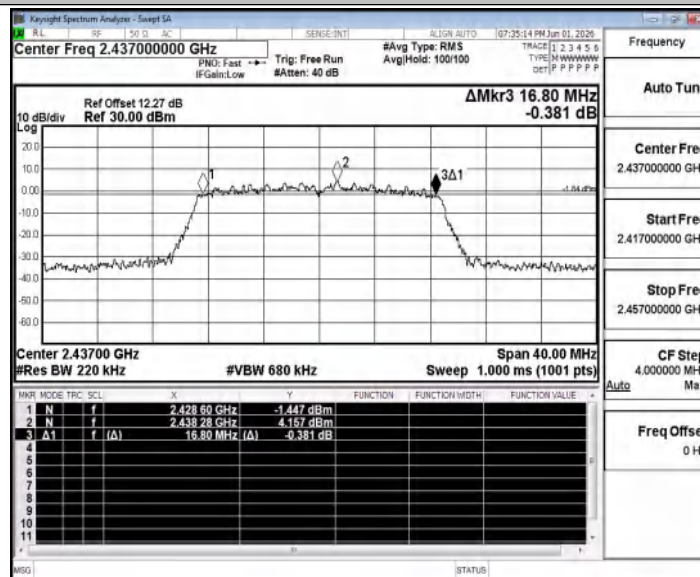
11G\_Ant1\_2462



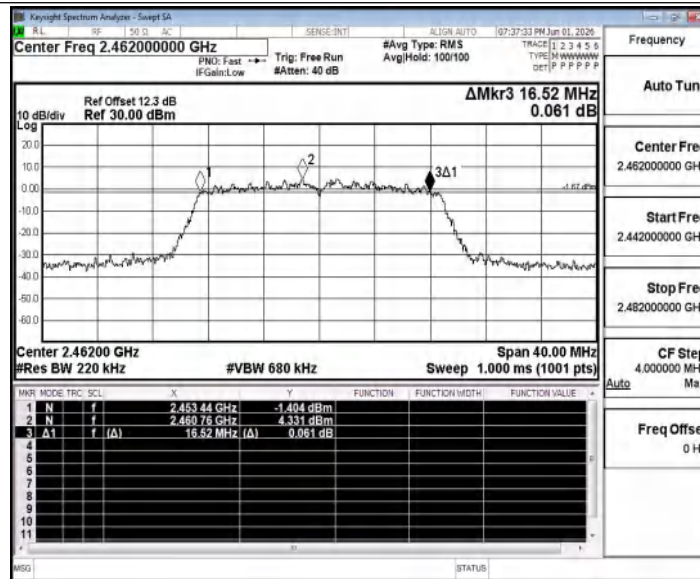
11N20SISO\_Ant1\_2412



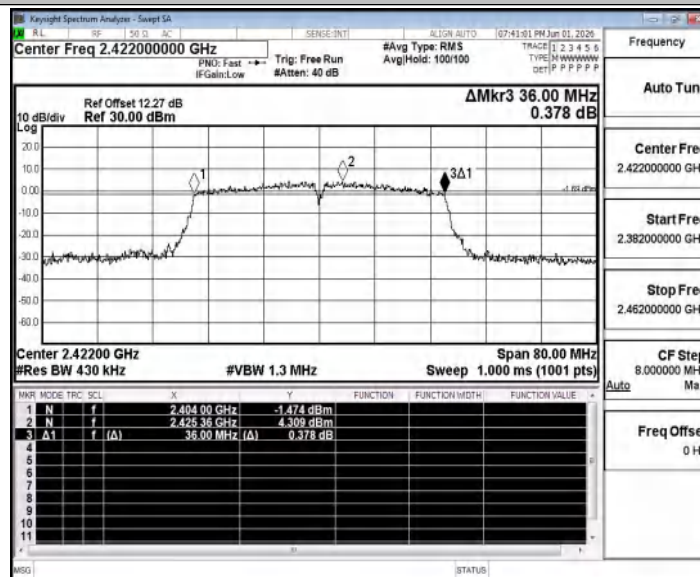
11N20SISO\_Ant1\_2437



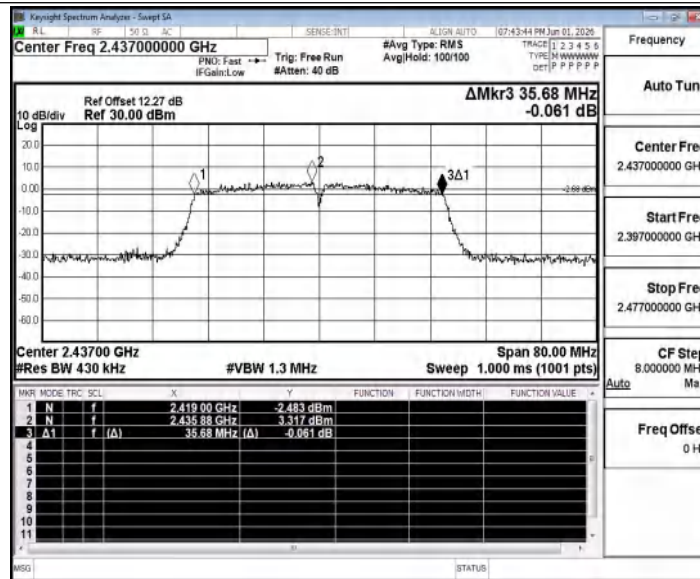
11N20SISO\_Ant1\_2462



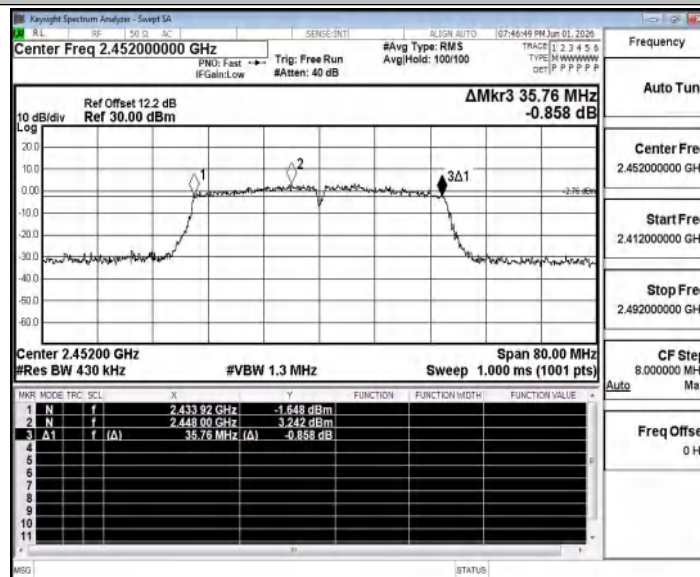
11N40SISO\_Ant1\_2422



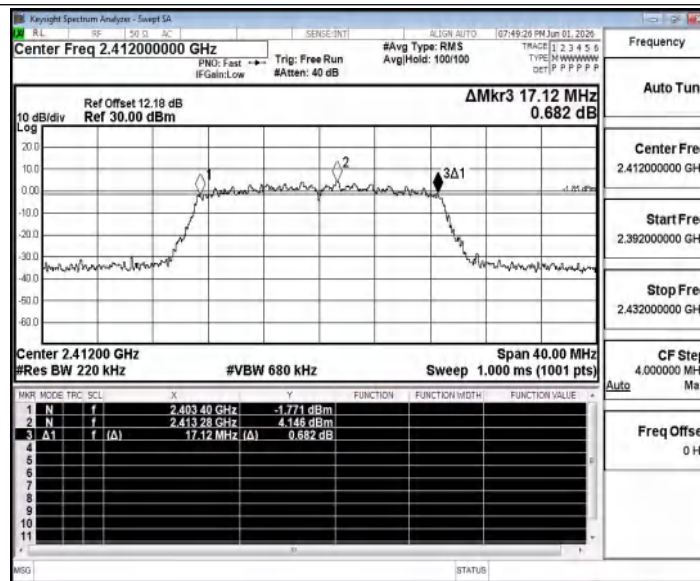
11N40SISO\_Ant1\_2437



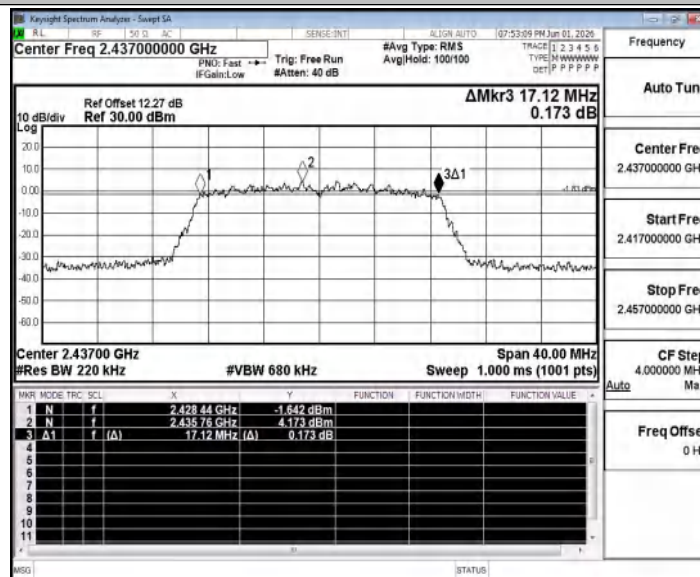
11N40SISO\_Ant1\_2452



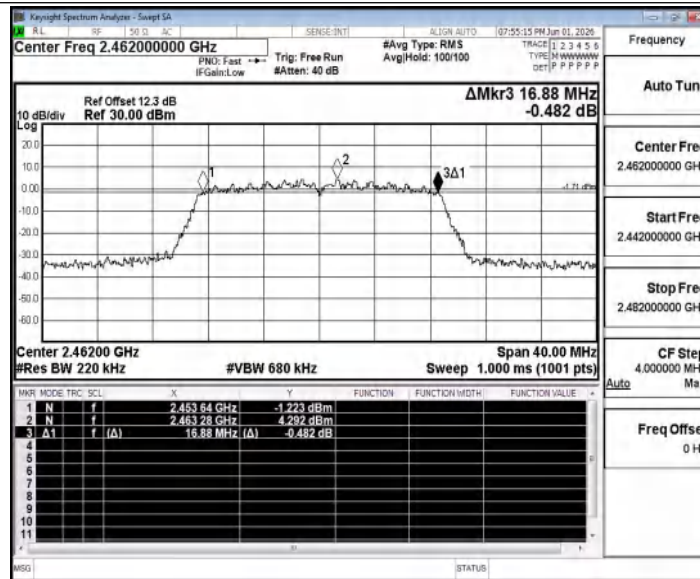
11AX20SISO\_Ant1\_2412



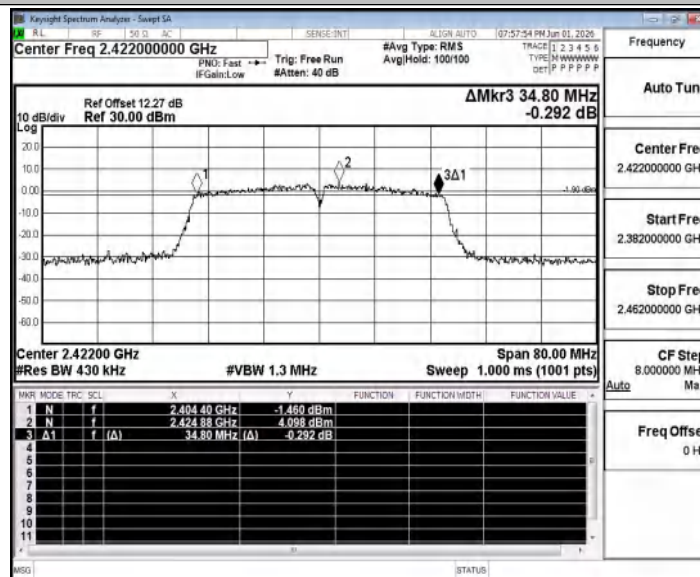
11AX20SISO\_Ant1\_2437



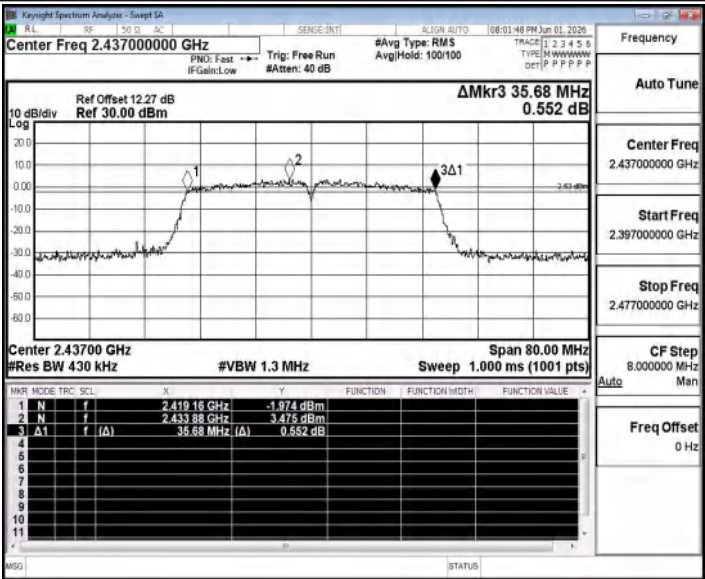
11AX20SISO\_Ant1\_2462



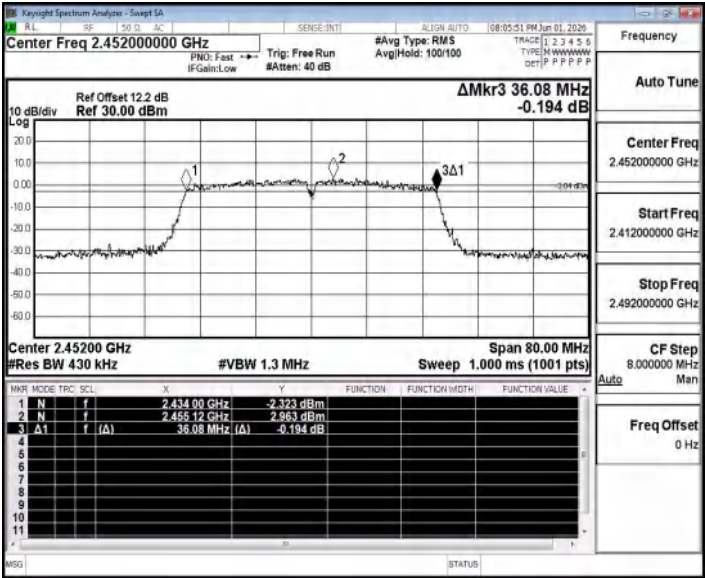
11AX40ISO\_Ant1\_2422



11AX40ISO\_Ant1\_2437



11AX40SISO\_Ant1\_2452



## B.2 Maximum Average conducted output power

### Test Result Average

| TestMode   | Antenna | Frequency [MHz] | Measured Power | DC Factor [dB] | AV Power [dBm] | Conducted Limit[dBm] | Verdict |
|------------|---------|-----------------|----------------|----------------|----------------|----------------------|---------|
| 11B        | Ant1    | 2412            | 14.64          | 0.24           | 14.88          | ≤30.00               | PASS    |
|            |         | 2437            | 13.66          | 0.18           | 13.84          | ≤30.00               | PASS    |
|            |         | 2462            | 13.59          | 0.24           | 13.83          | ≤30.00               | PASS    |
| 11G        | Ant1    | 2412            | 12.32          | 1.35           | 13.67          | ≤30.00               | PASS    |
|            |         | 2437            | 12.21          | 1.63           | 13.84          | ≤30.00               | PASS    |
|            |         | 2462            | 12.26          | 1.25           | 13.51          | ≤30.00               | PASS    |
| 11N20SISO  | Ant1    | 2412            | 12.28          | 1.51           | 13.79          | ≤30.00               | PASS    |
|            |         | 2437            | 12.22          | 1.51           | 13.73          | ≤30.00               | PASS    |
|            |         | 2462            | 12.23          | 1.51           | 13.74          | ≤30.00               | PASS    |
| 11N40SISO  | Ant1    | 2422            | 12.69          | 1.76           | 14.45          | ≤30.00               | PASS    |
|            |         | 2437            | 11.82          | 1.76           | 13.58          | ≤30.00               | PASS    |
|            |         | 2452            | 11.77          | 1.76           | 13.53          | ≤30.00               | PASS    |
| 11AX20SISO | Ant1    | 2412            | 12.40          | 1.17           | 13.57          | ≤30.00               | PASS    |
|            |         | 2437            | 12.28          | 1.51           | 13.79          | ≤30.00               | PASS    |
|            |         | 2462            | 12.32          | 1.41           | 13.73          | ≤30.00               | PASS    |
| 11AX40SISO | Ant1    | 2422            | 11.97          | 2.11           | 14.08          | ≤30.00               | PASS    |
|            |         | 2437            | 12.05          | 1.60           | 13.65          | ≤30.00               | PASS    |
|            |         | 2452            | 12.01          | 1.76           | 13.77          | ≤30.00               | PASS    |

Note :offset=System attenuation +cabal loss

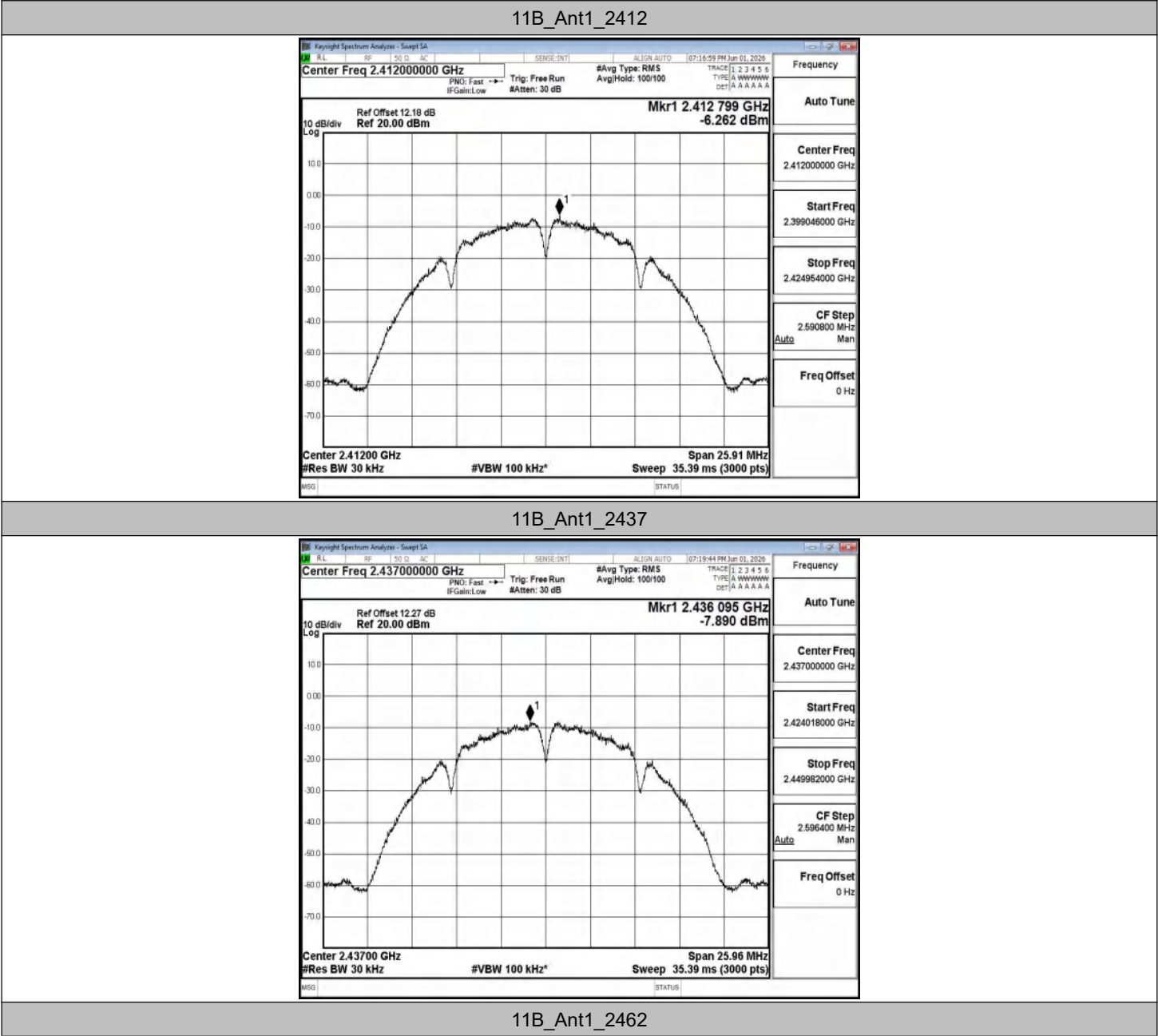
## B.3 Maximum power spectral density

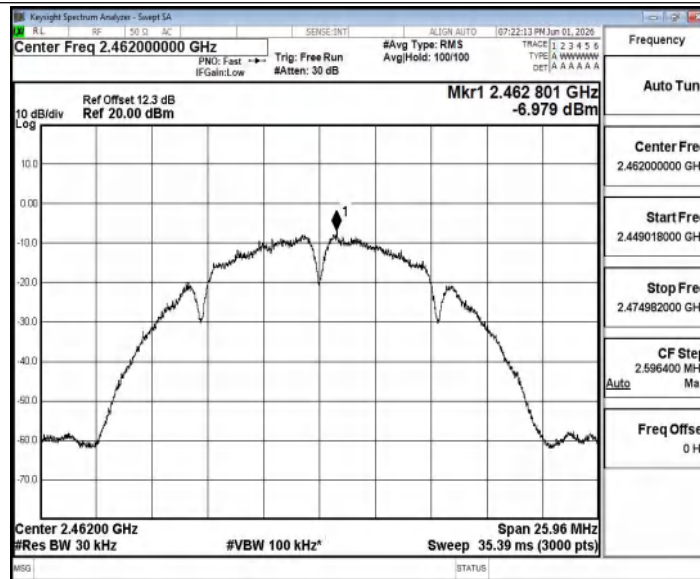
### Test Result

| TestMode   | Antenna | Frequency[MHz] | Measured<br>PSD<br>[dBm/30kHz] | DC<br>Factor<br>[dB] | Result<br>[dBm/30kHz] | Result<br>[dBm/3kHz] | Limit<br>[dBm/3kHz] | Verdict |
|------------|---------|----------------|--------------------------------|----------------------|-----------------------|----------------------|---------------------|---------|
| 11B        | Ant1    | 2412           | -6.26                          | 0.24                 | -6.02                 | -16.02               | ≤8.00               | PASS    |
|            |         | 2437           | -7.89                          | 0.18                 | -7.71                 | -17.71               | ≤8.00               | PASS    |
|            |         | 2462           | -6.98                          | 0.24                 | -6.74                 | -16.74               | ≤8.00               | PASS    |
| 11G        | Ant1    | 2412           | -9.68                          | 1.35                 | -8.33                 | -18.33               | ≤8.00               | PASS    |
|            |         | 2437           | -9.44                          | 1.63                 | -7.81                 | -17.81               | ≤8.00               | PASS    |
|            |         | 2462           | -9.39                          | 1.25                 | -8.14                 | -18.14               | ≤8.00               | PASS    |
| 11N20SISO  | Ant1    | 2412           | -9.39                          | 1.51                 | -7.88                 | -17.88               | ≤8.00               | PASS    |
|            |         | 2437           | -8.89                          | 1.51                 | -7.38                 | -17.38               | ≤8.00               | PASS    |
|            |         | 2462           | -9.4                           | 1.51                 | -7.89                 | -17.89               | ≤8.00               | PASS    |
| 11N40SISO  | Ant1    | 2422           | -9.74                          | 1.76                 | -7.98                 | -17.98               | ≤8.00               | PASS    |
|            |         | 2437           | -11.19                         | 1.76                 | -9.43                 | -19.43               | ≤8.00               | PASS    |
|            |         | 2452           | -11.6                          | 1.76                 | -9.84                 | -19.84               | ≤8.00               | PASS    |
| 11AX20SISO | Ant1    | 2412           | -9.27                          | 1.17                 | -8.10                 | -18.1                | ≤8.00               | PASS    |
|            |         | 2437           | -9.51                          | 1.51                 | -8.00                 | -18                  | ≤8.00               | PASS    |
|            |         | 2462           | -9.44                          | 1.41                 | -8.03                 | -18.03               | ≤8.00               | PASS    |
| 11AX40SISO | Ant1    | 2422           | -11.43                         | 2.11                 | -9.32                 | -19.32               | ≤8.00               | PASS    |
|            |         | 2437           | -9.8                           | 1.60                 | -8.20                 | -18.2                | ≤8.00               | PASS    |
|            |         | 2452           | -11.35                         | 1.76                 | -9.59                 | -19.59               | ≤8.00               | PASS    |

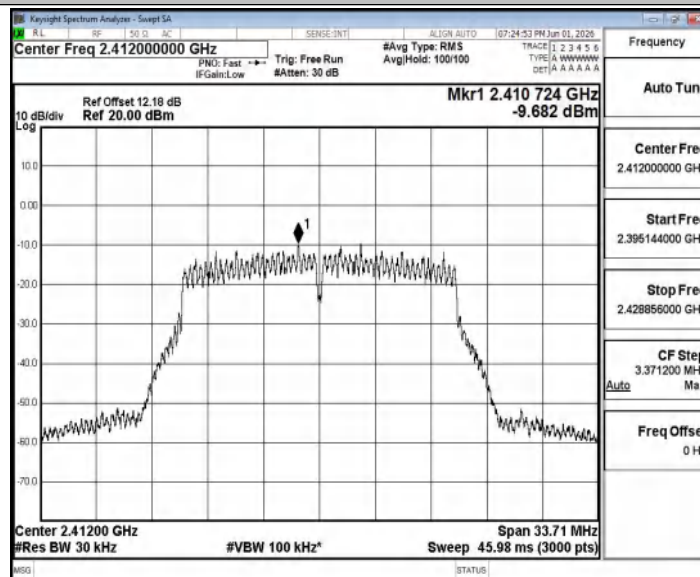
Note :offset=System attenuation +cabel loss

Test Graphs

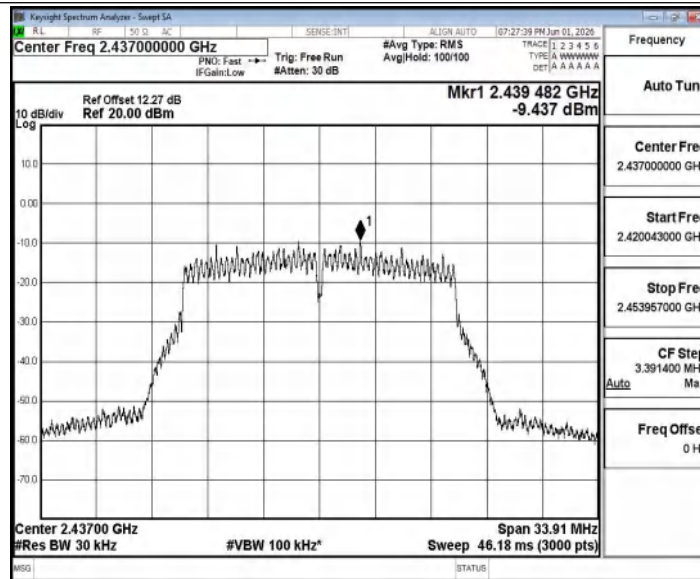




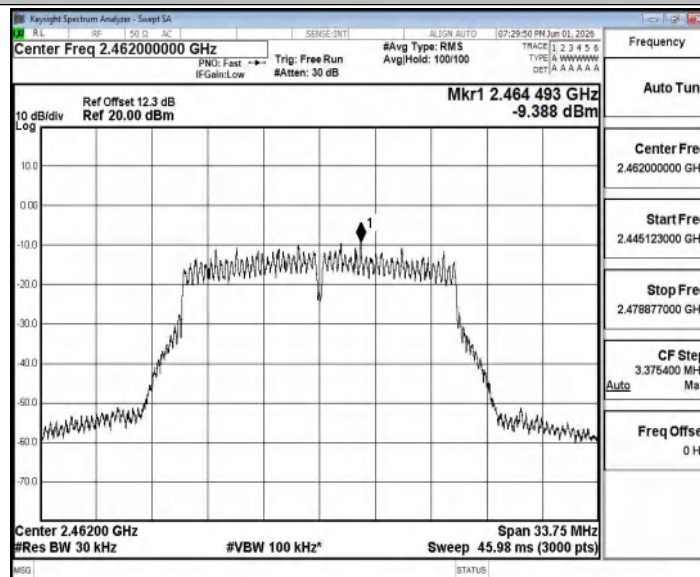
11G\_Ant1\_2412



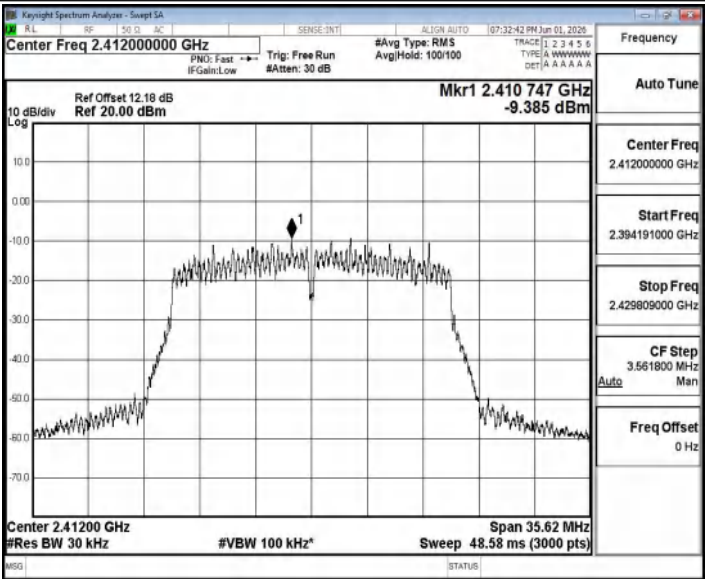
11G\_Ant1\_2437



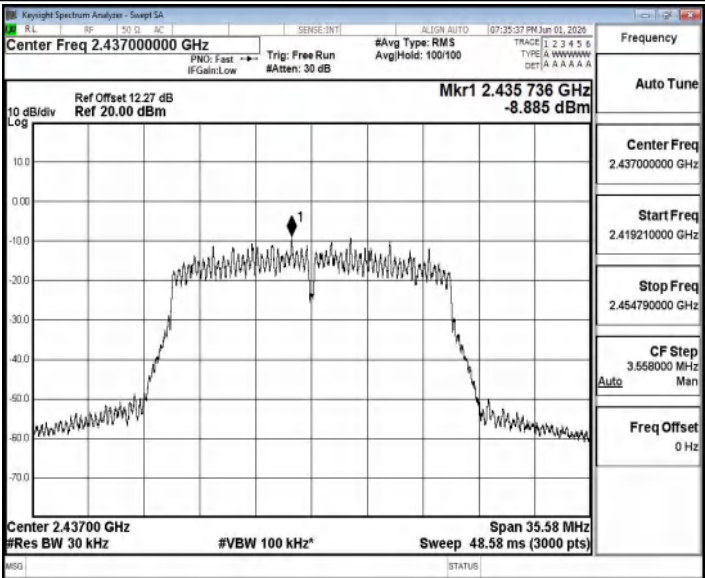
11G\_Ant1\_2462



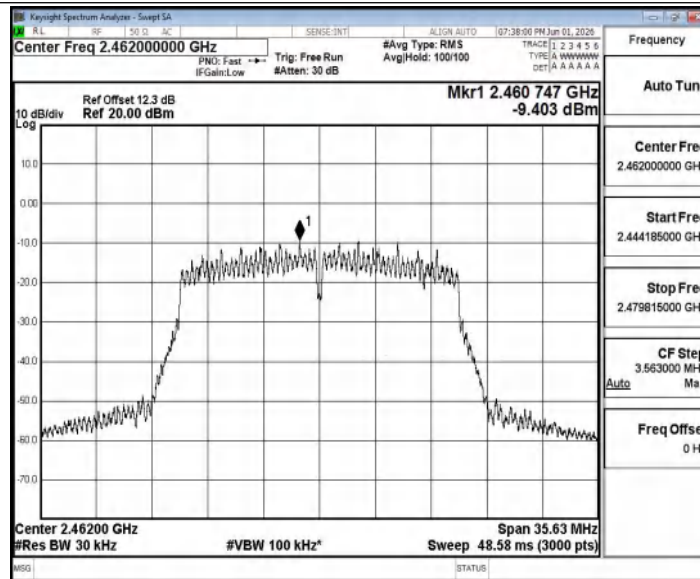
11N20SISO\_Ant1\_2412



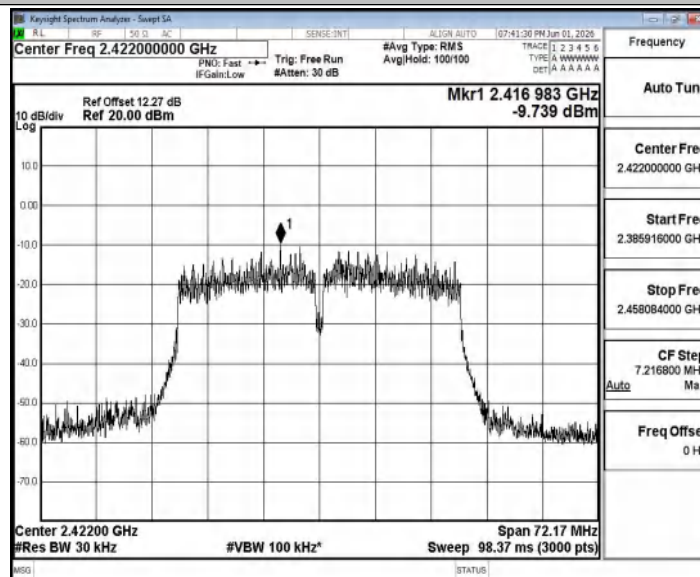
11N20SISO\_Ant1\_2437



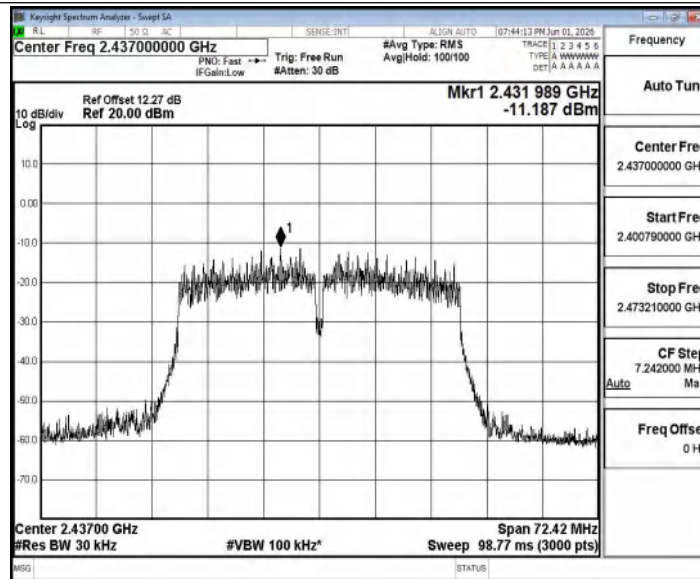
11N20SISO\_Ant1\_2462



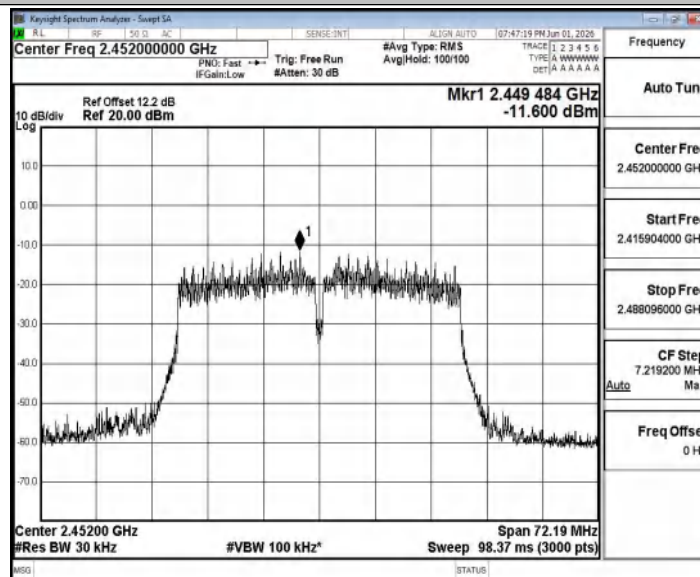
11N40SISO\_Ant1\_2422



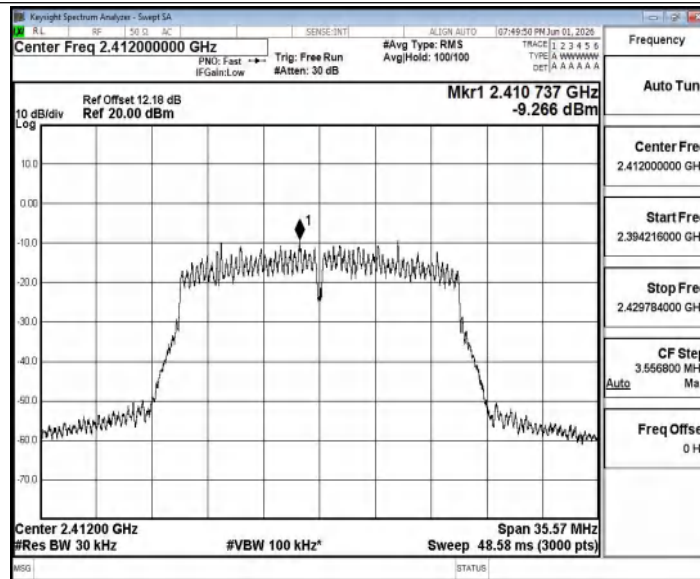
11N40SISO\_Ant1\_2437



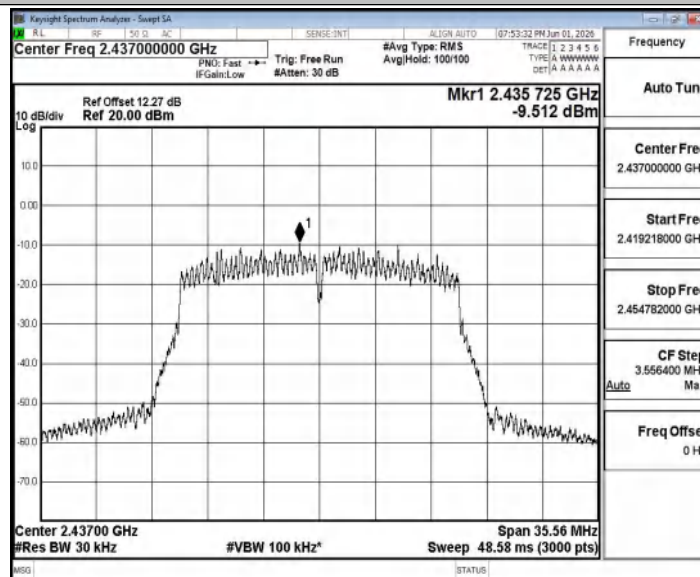
11N40SISO\_Ant1\_2452



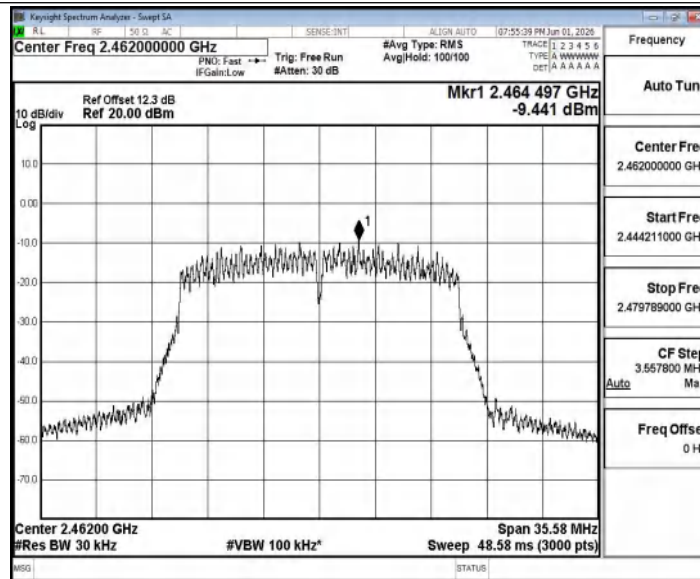
11AX20SISO\_Ant1\_2412



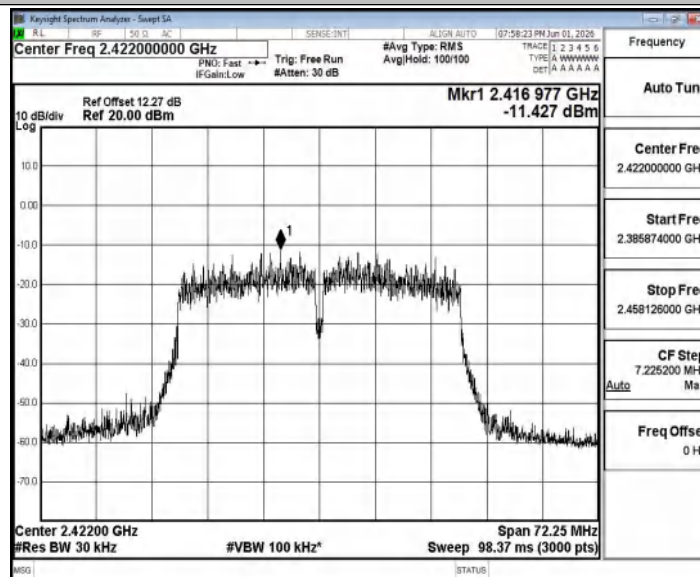
11AX20SISO\_Ant1\_2437



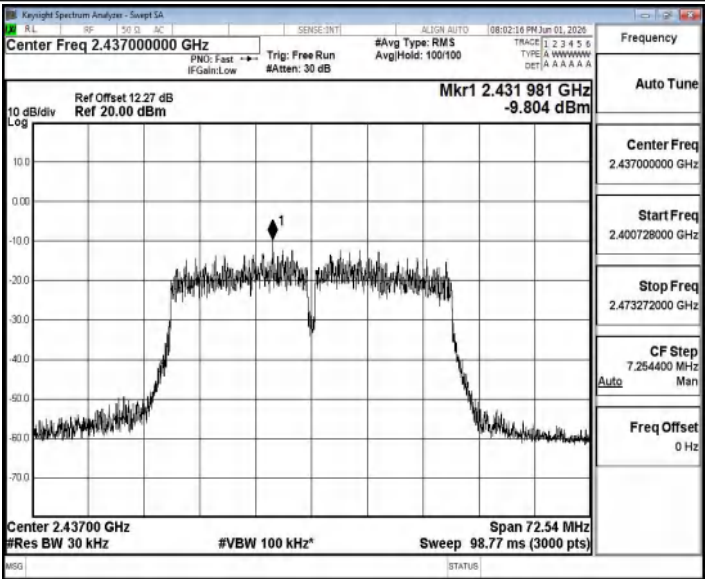
11AX20SISO\_Ant1\_2462



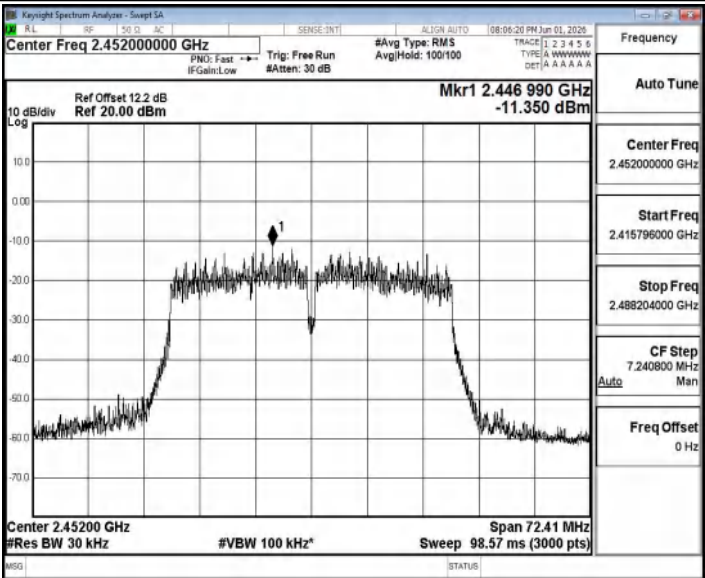
11AX40SISO\_Ant1\_2422



11AX40SISO\_Ant1\_2437



11AX40SISO\_Ant1\_2452



## B.4 Band edge measurements

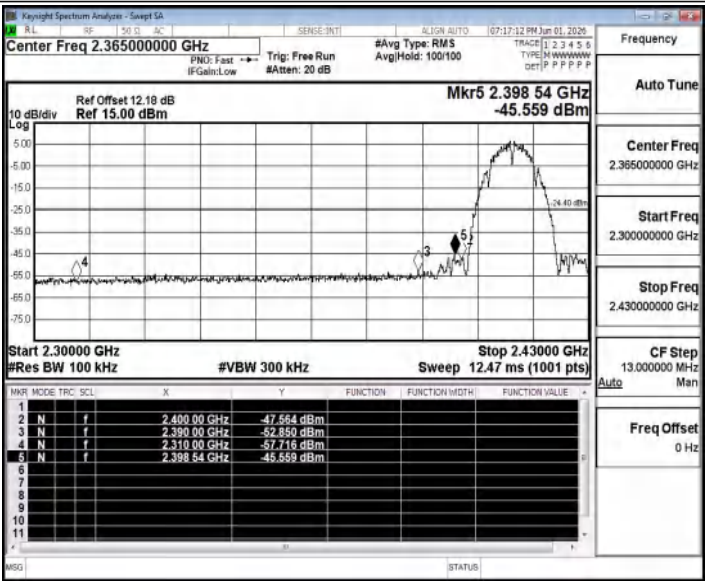
### Test Result

| TestMode   | Antenna | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|------------|---------|--------|----------------|---------------|-------------|------------|---------|
| 11B        | Ant1    | Low    | 2412           | 5.60          | -45.56      | ≤-24.4     | PASS    |
|            |         | High   | 2462           | 5.03          | -53.16      | ≤-24.97    | PASS    |
| 11G        | Ant1    | Low    | 2412           | 3.45          | -37.52      | ≤-26.55    | PASS    |
|            |         | High   | 2462           | 3.55          | -50.07      | ≤-26.45    | PASS    |
| 11N20SISO  | Ant1    | Low    | 2412           | 3.33          | -36.09      | ≤-26.67    | PASS    |
|            |         | High   | 2462           | 3.62          | -48.73      | ≤-26.38    | PASS    |
| 11N40SISO  | Ant1    | Low    | 2422           | 1.61          | -35.24      | ≤-28.39    | PASS    |
|            |         | High   | 2452           | 0.54          | -43.78      | ≤-29.46    | PASS    |
| 11AX20SISO | Ant1    | Low    | 2412           | 3.44          | -35.65      | ≤-26.56    | PASS    |
|            |         | High   | 2462           | 3.61          | -50.12      | ≤-26.39    | PASS    |
| 11AX40SISO | Ant1    | Low    | 2422           | 0.61          | -36.24      | ≤-29.39    | PASS    |
|            |         | High   | 2452           | 0.40          | -43.87      | ≤-29.6     | PASS    |

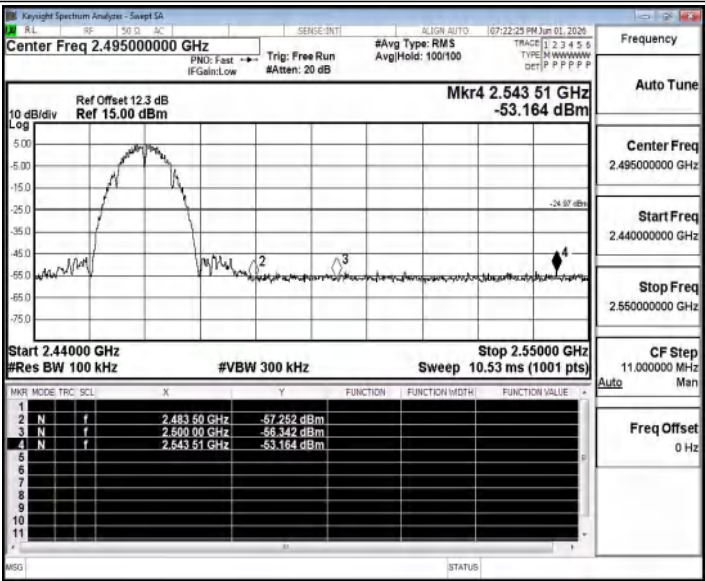
Note :offset=System attenuation +cabal loss

Test Graphs

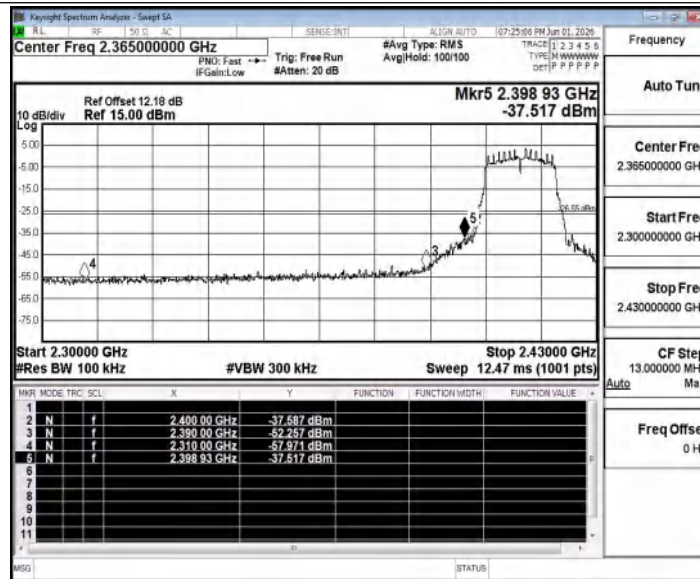
11B\_Ant1\_Low\_2412



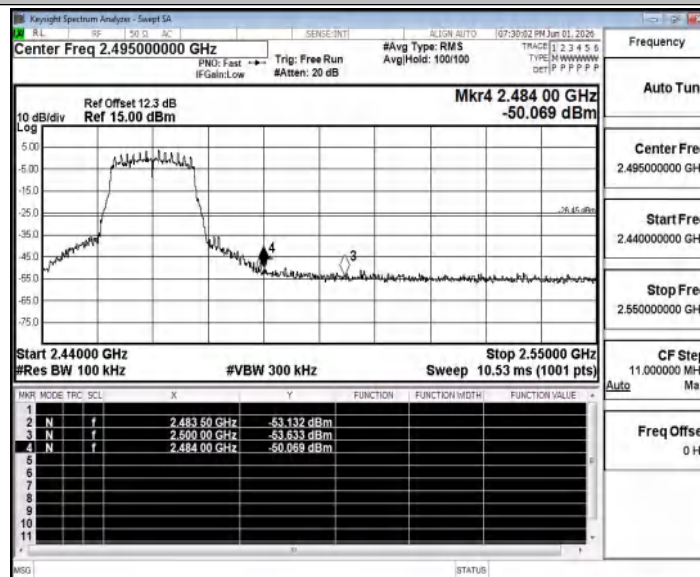
11B\_Ant1\_High\_2462



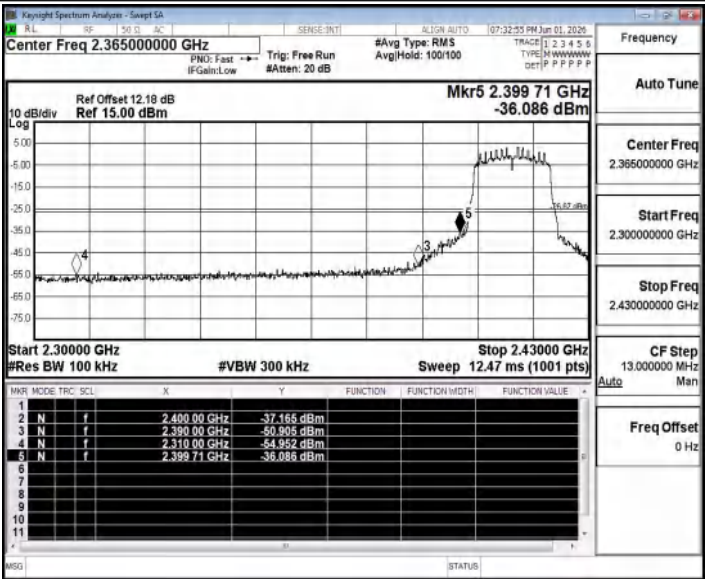
11G\_Ant1\_Low\_2412



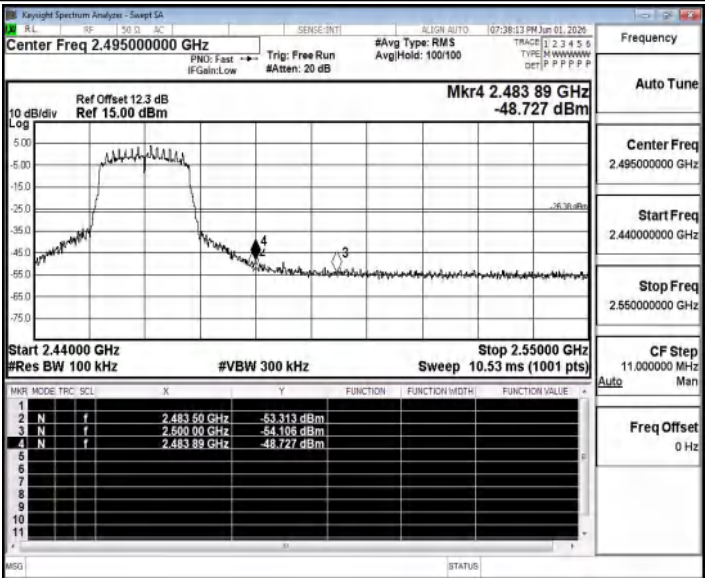
11G\_Ant1\_High\_2462



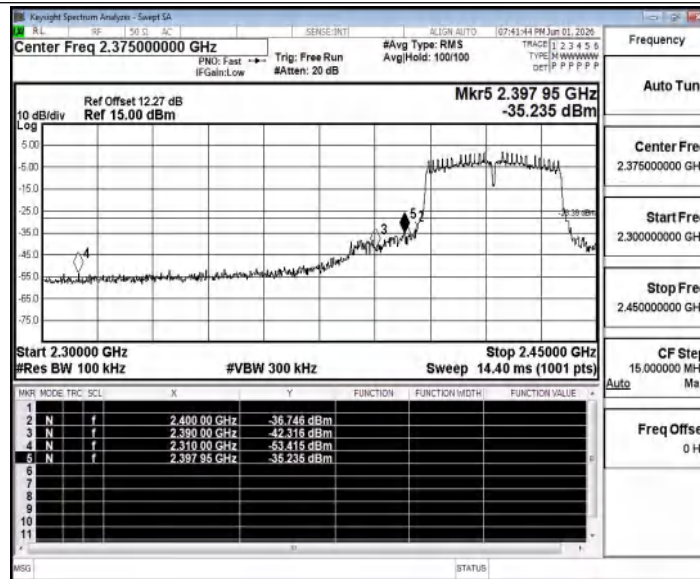
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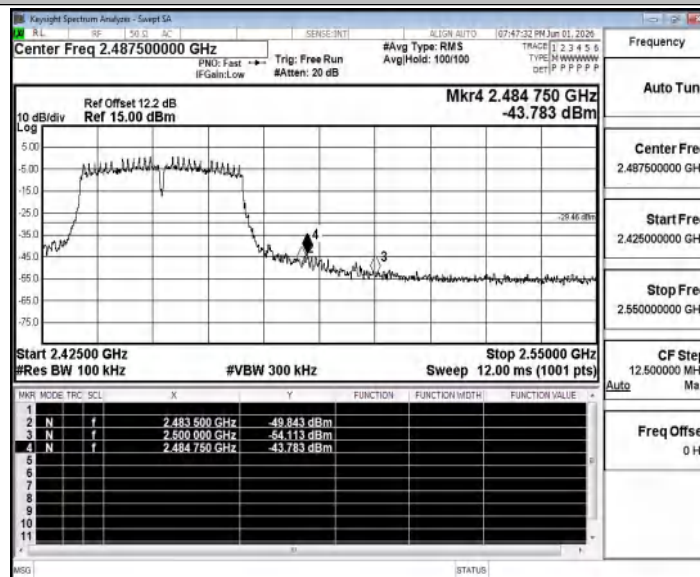
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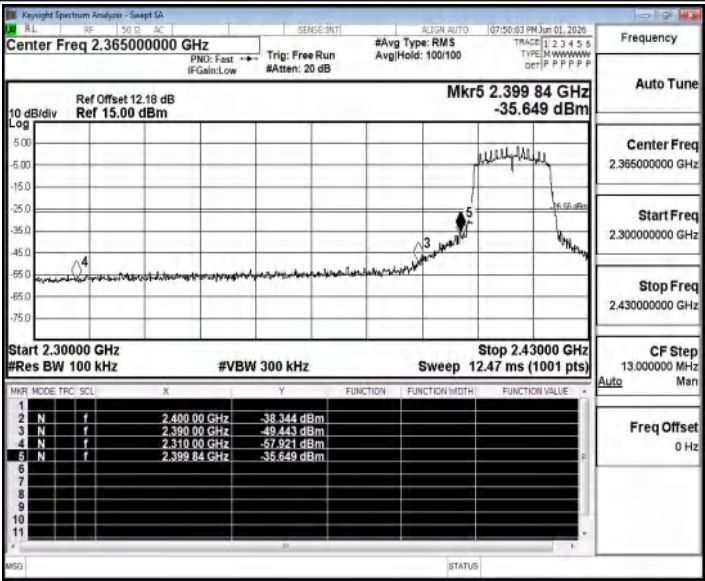
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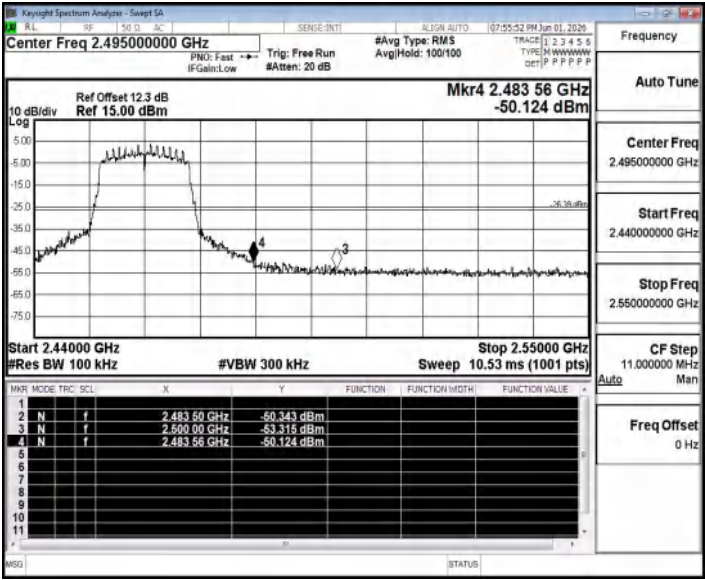
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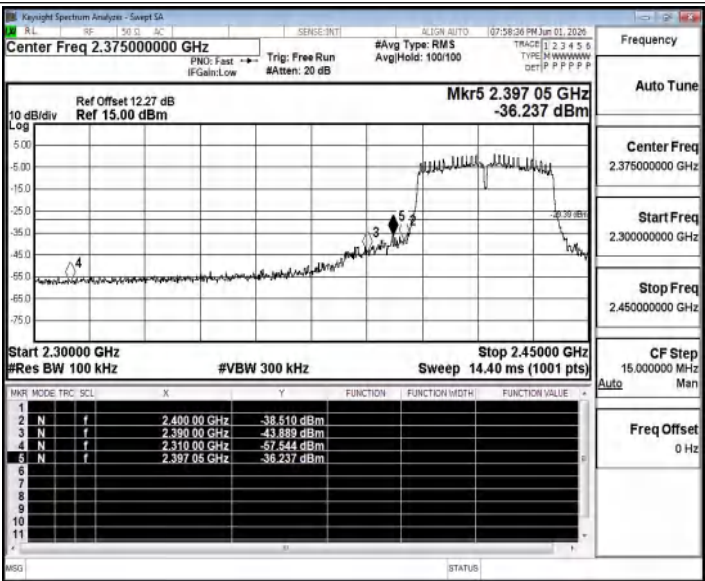
11AX20SISO\_Ant1\_Low\_2412



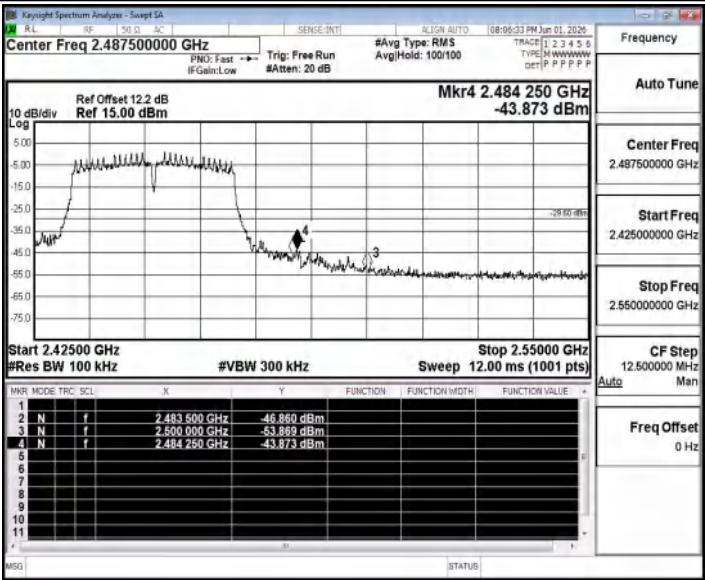
11AX20ISO\_Ant1\_High\_2462



11AX40ISO\_Ant1\_Low\_2422



11AX40ISO\_Ant1\_High\_2452



## B.5 Conducted Spurious Emission

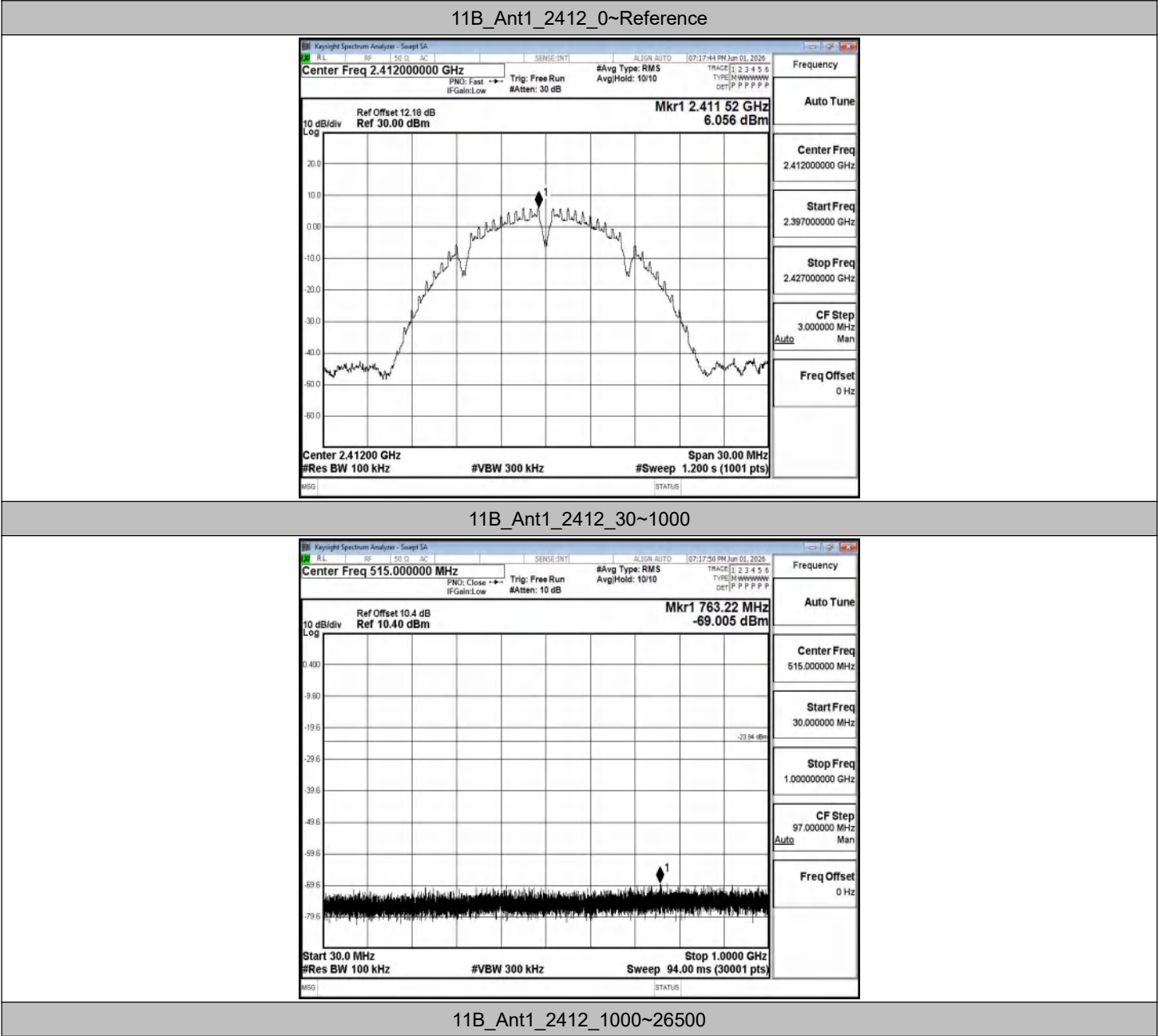
### Test Result

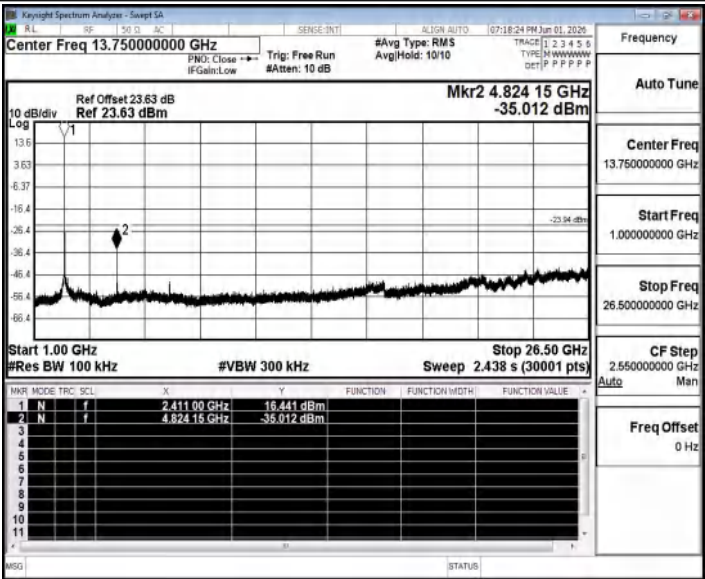
| TestMode  | Antenna | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412           | Reference       | 6.06           | 6.06         | ---         | PASS    |
|           |         |                | 30~1000         | 6.06           | -69.01       | ≤-23.94     | PASS    |
|           |         |                | 1000~26500      | 6.06           | -35.01       | ≤-23.94     | PASS    |
|           |         | 2437           | Reference       | 5.36           | 5.36         | ---         | PASS    |
|           |         |                | 30~1000         | 5.36           | -68.3        | ≤-24.64     | PASS    |
|           |         |                | 1000~26500      | 5.36           | -36.54       | ≤-24.64     | PASS    |
|           |         | 2462           | Reference       | 5.67           | 5.67         | ---         | PASS    |
|           |         |                | 30~1000         | 5.67           | -68.73       | ≤-24.33     | PASS    |
|           |         |                | 1000~26500      | 5.67           | -36.43       | ≤-24.33     | PASS    |
| 11G       | Ant1    | 2412           | Reference       | 2.82           | 2.82         | ---         | PASS    |
|           |         |                | 30~1000         | 2.82           | -69.21       | ≤-27.18     | PASS    |
|           |         |                | 1000~26500      | 2.82           | -43.39       | ≤-27.18     | PASS    |
|           |         | 2437           | Reference       | 2.86           | 2.86         | ---         | PASS    |
|           |         |                | 30~1000         | 2.86           | -68.73       | ≤-27.14     | PASS    |
|           |         |                | 1000~26500      | 2.86           | -43.52       | ≤-27.14     | PASS    |
|           |         | 2462           | Reference       | 3.05           | 3.05         | ---         | PASS    |
|           |         |                | 30~1000         | 3.05           | -69.19       | ≤-26.95     | PASS    |
|           |         |                | 1000~26500      | 3.05           | -43.07       | ≤-26.95     | PASS    |
| 11N20SISO | Ant1    | 2412           | Reference       | 2.81           | 2.81         | ---         | PASS    |
|           |         |                | 30~1000         | 2.81           | -69.19       | ≤-27.19     | PASS    |
|           |         |                | 1000~26500      | 2.81           | -42.83       | ≤-27.19     | PASS    |
|           |         | 2437           | Reference       | 2.86           | 2.86         | ---         | PASS    |
|           |         |                | 30~1000         | 2.86           | -69.53       | ≤-27.14     | PASS    |
|           |         |                | 1000~26500      | 2.86           | -43.15       | ≤-27.14     | PASS    |
|           |         | 2462           | Reference       | 3.04           | 3.04         | ---         | PASS    |
|           |         |                | 30~1000         | 3.04           | -69.14       | ≤-26.96     | PASS    |
|           |         |                | 1000~26500      | 3.04           | -43.24       | ≤-26.96     | PASS    |
| 11N40SISO | Ant1    | 2422           | Reference       | 1.47           | 1.47         | ---         | PASS    |
|           |         |                | 30~1000         | 1.47           | -69.52       | ≤-28.53     | PASS    |
|           |         |                | 1000~26500      | 1.47           | -43.03       | ≤-28.53     | PASS    |
|           |         | 2437           | Reference       | 0.74           | 0.74         | ---         | PASS    |
|           |         |                | 30~1000         | 0.74           | -67.68       | ≤-29.26     | PASS    |
|           |         |                | 1000~26500      | 0.74           | -42.52       | ≤-29.26     | PASS    |
|           |         | 2452           | Reference       | 0.40           | 0.40         | ---         | PASS    |
|           |         |                | 30~1000         | 0.40           | -68.42       | ≤-29.6      | PASS    |

|            |      |      |            |      |        |               |      |
|------------|------|------|------------|------|--------|---------------|------|
|            |      |      | 1000~26500 | 0.40 | -42.14 | $\leq -29.6$  | PASS |
| 11AX20SISO | Ant1 | 2412 | Reference  | 2.82 | 2.82   | ---           | PASS |
|            |      |      | 30~1000    | 2.82 | -69.07 | $\leq -27.18$ | PASS |
|            |      |      | 1000~26500 | 2.82 | -43.34 | $\leq -27.18$ | PASS |
|            |      | 2437 | Reference  | 2.86 | 2.86   | ---           | PASS |
|            |      |      | 30~1000    | 2.86 | -68.68 | $\leq -27.14$ | PASS |
|            |      |      | 1000~26500 | 2.86 | -43.05 | $\leq -27.14$ | PASS |
|            |      | 2462 | Reference  | 3.05 | 3.05   | ---           | PASS |
|            |      |      | 30~1000    | 3.05 | -69.33 | $\leq -26.95$ | PASS |
|            |      |      | 1000~26500 | 3.05 | -42.57 | $\leq -26.95$ | PASS |
| 11AX40SISO | Ant1 | 2422 | Reference  | 0.56 | 0.56   | ---           | PASS |
|            |      |      | 30~1000    | 0.56 | -68.6  | $\leq -29.44$ | PASS |
|            |      |      | 1000~26500 | 0.56 | -43.1  | $\leq -29.44$ | PASS |
|            |      | 2437 | Reference  | 0.73 | 0.73   | ---           | PASS |
|            |      |      | 30~1000    | 0.73 | -68.73 | $\leq -29.27$ | PASS |
|            |      |      | 1000~26500 | 0.73 | -43.04 | $\leq -29.27$ | PASS |
|            |      | 2452 | Reference  | 0.39 | 0.39   | ---           | PASS |
|            |      |      | 30~1000    | 0.39 | -68.97 | $\leq -29.61$ | PASS |
|            |      |      | 1000~26500 | 0.39 | -43.2  | $\leq -29.61$ | PASS |

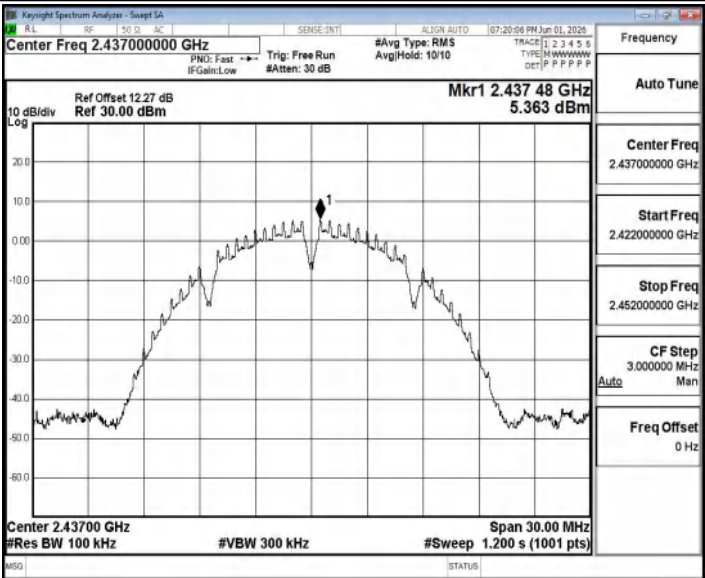
Note :Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the CORREC' of the Spectrum Analyzer during the test.

Test Graphs

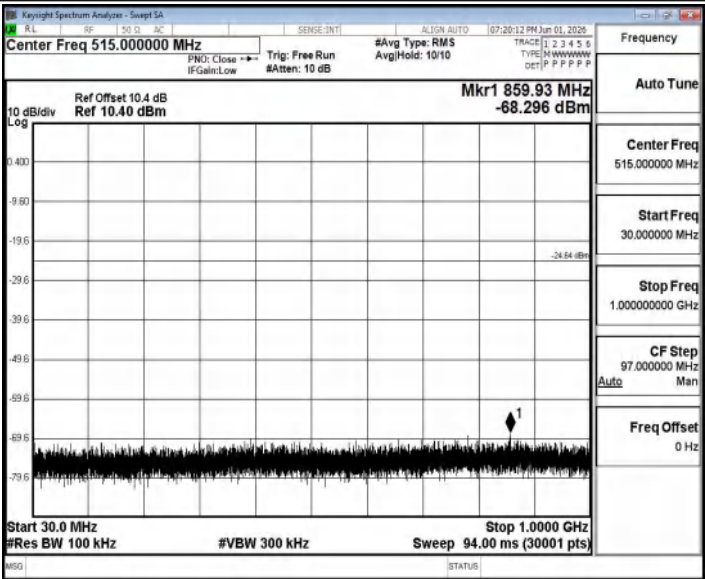




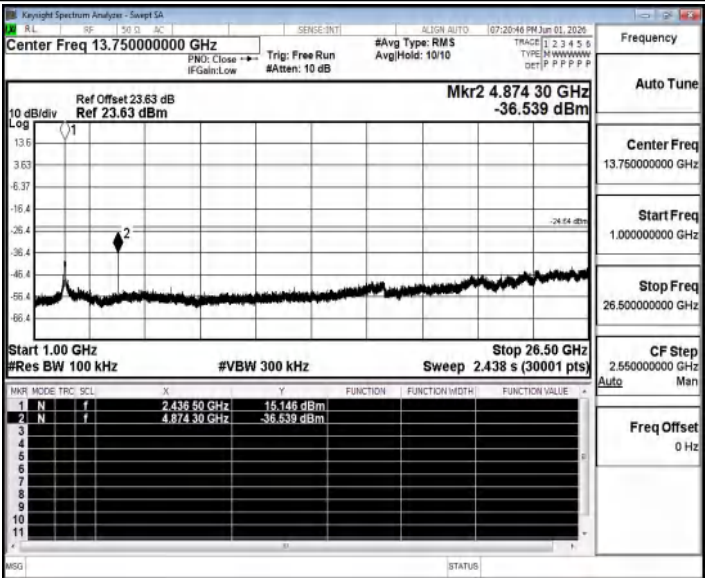
11B\_Ant1\_2437\_0~Reference



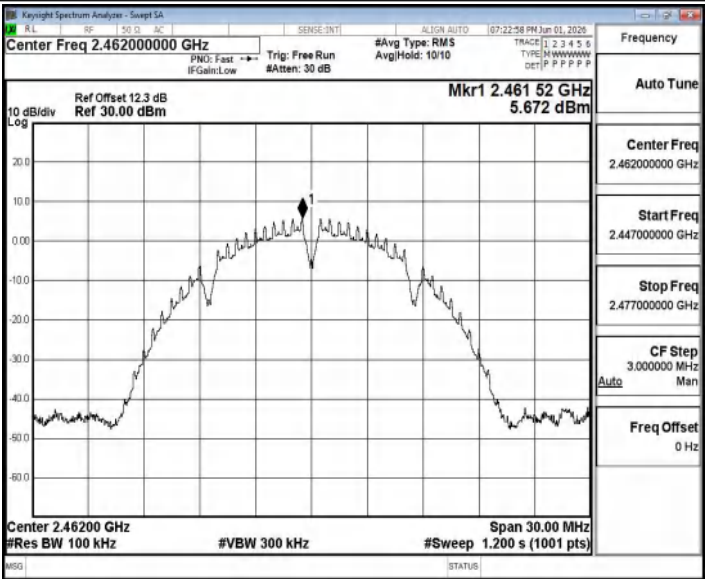
11B\_Ant1\_2437\_30~1000



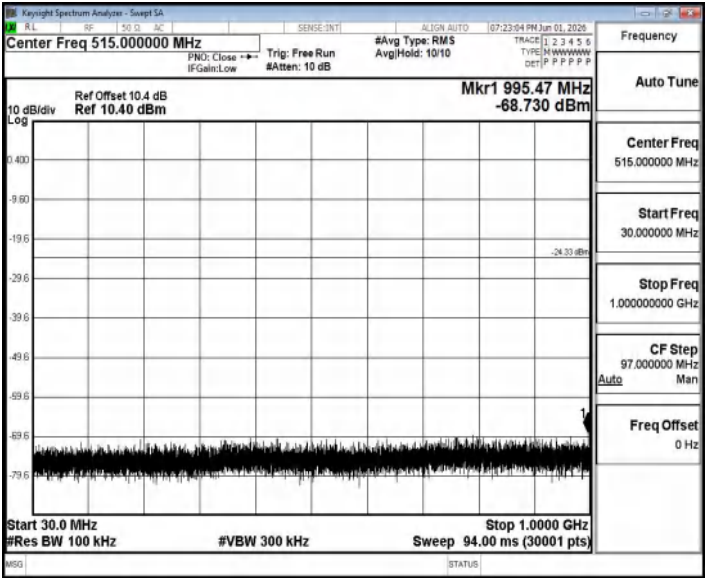
11B\_Ant1\_2437\_1000~26500



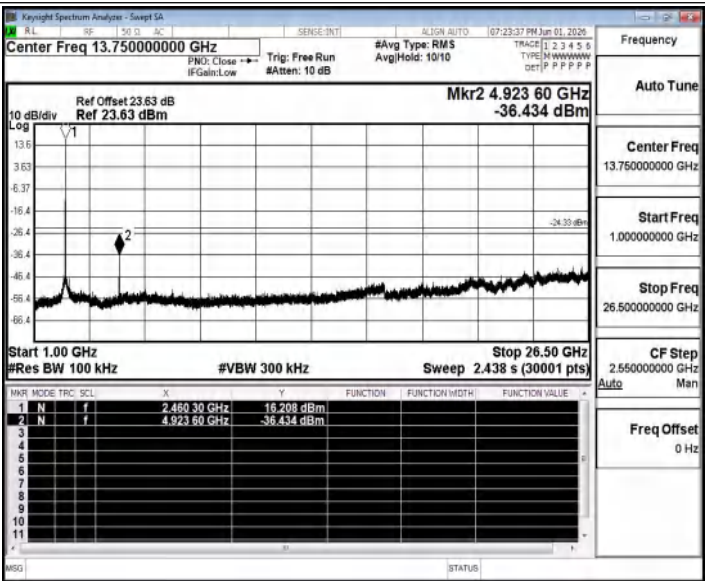
11B\_Ant1\_2462\_0~Reference



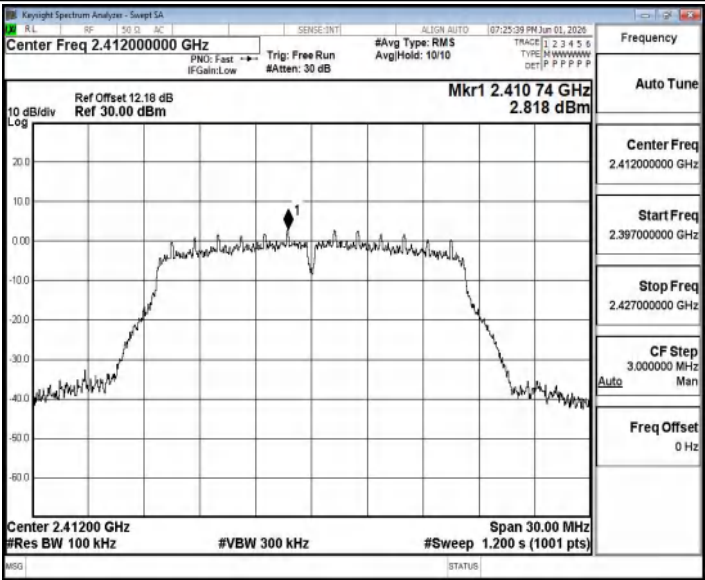
11B\_Ant1\_2462\_30~1000



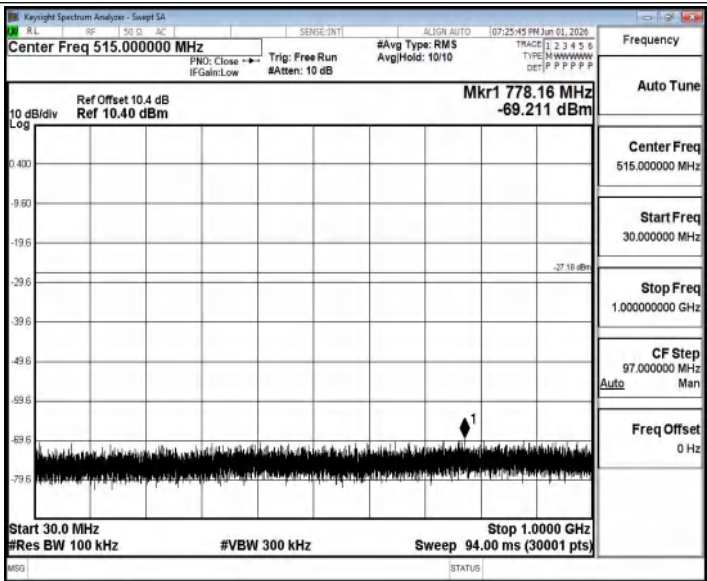
11B\_Ant1\_2462\_1000~26500



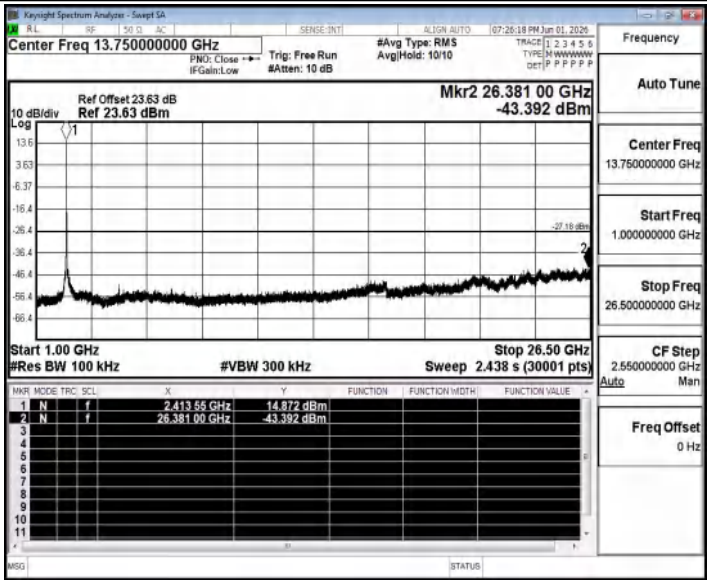
11G\_Ant1\_2412\_0~Reference



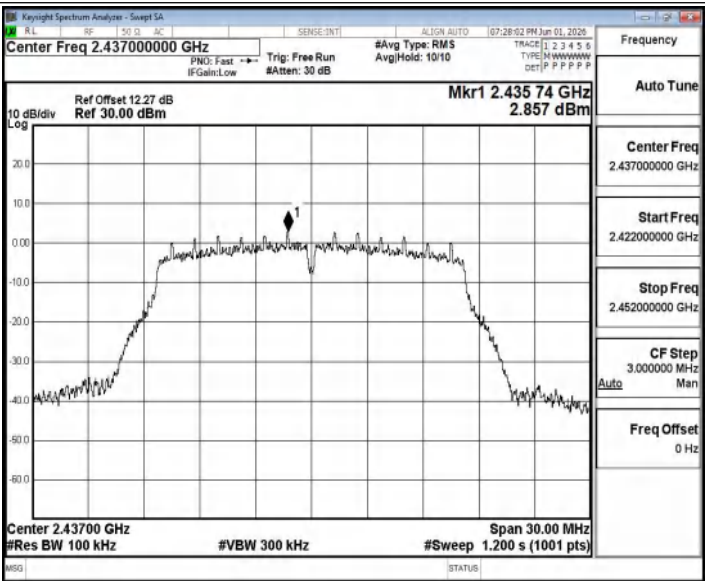
11G\_Ant1\_2412\_30~1000



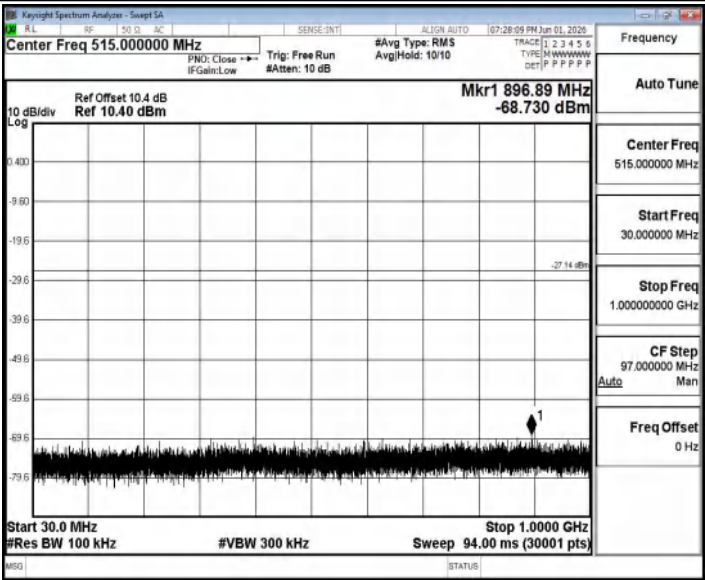
11G\_Ant1\_2412\_1000~26500



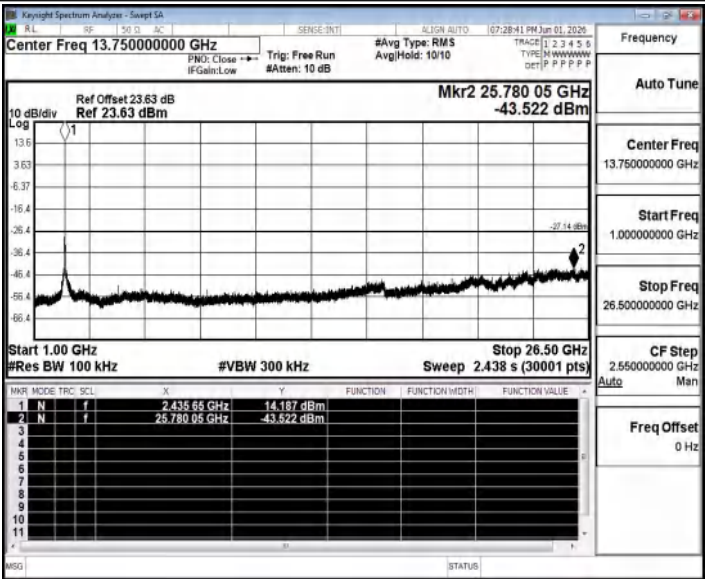
11G\_Ant1\_2437\_0~Reference



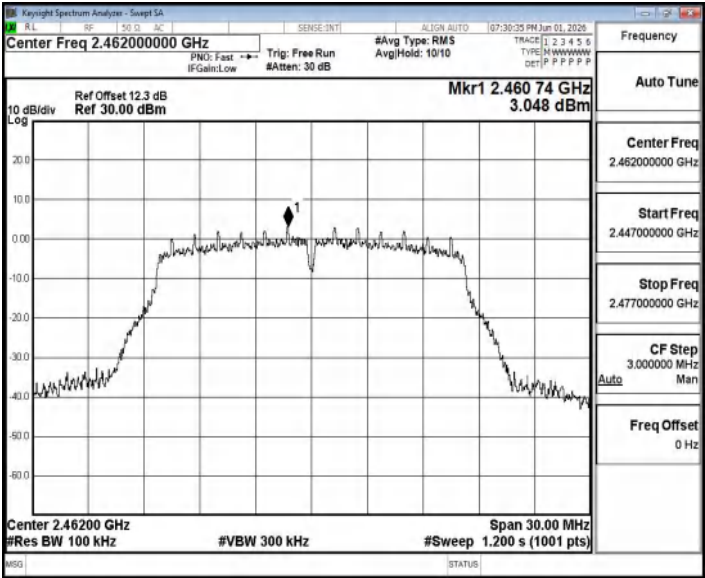
11G\_Ant1\_2437\_30~1000



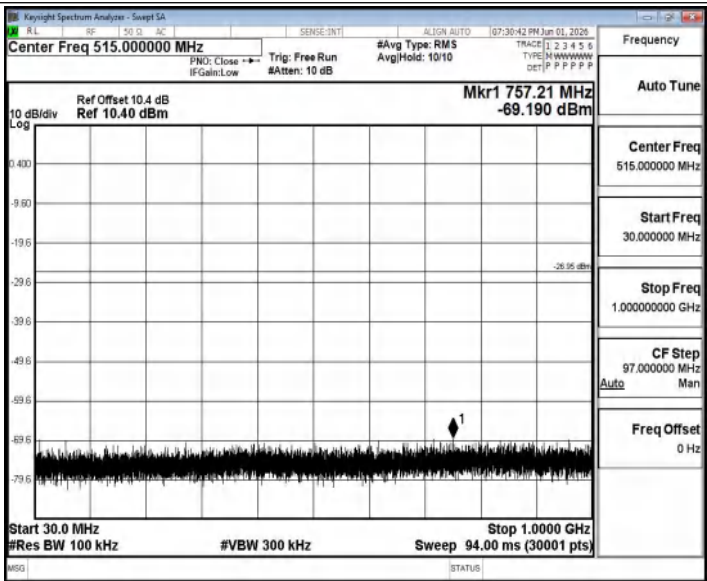
11G\_Ant1\_2437\_1000~26500



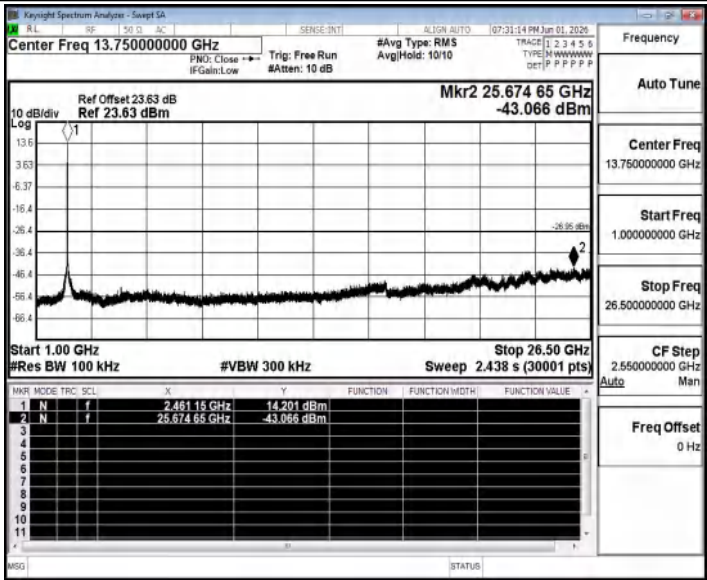
11G\_Ant1\_2462\_0~Reference



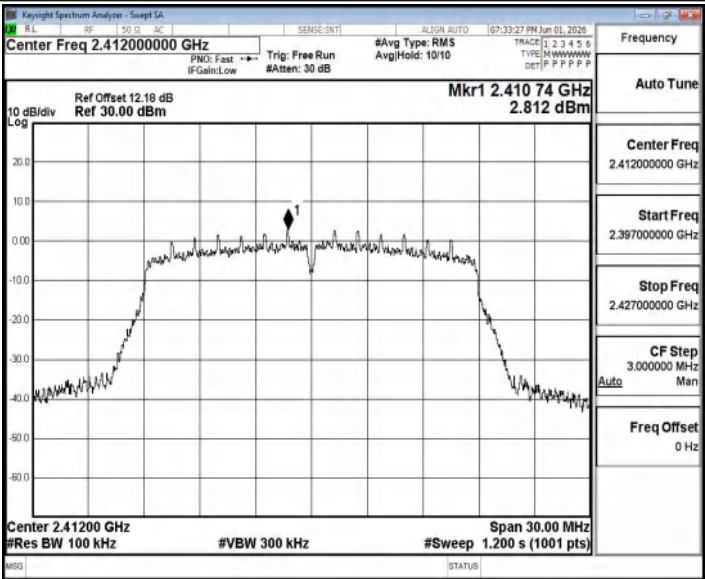
11G\_Ant1\_2462\_30~1000



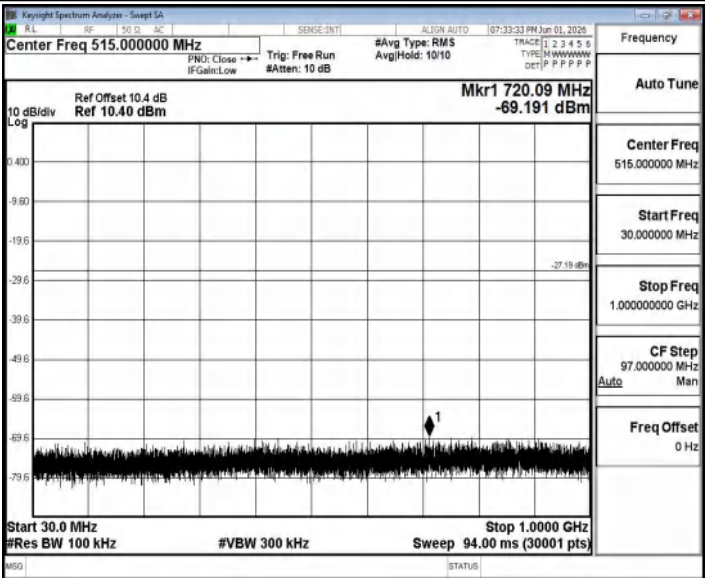
11G\_Ant1\_2462\_1000~26500



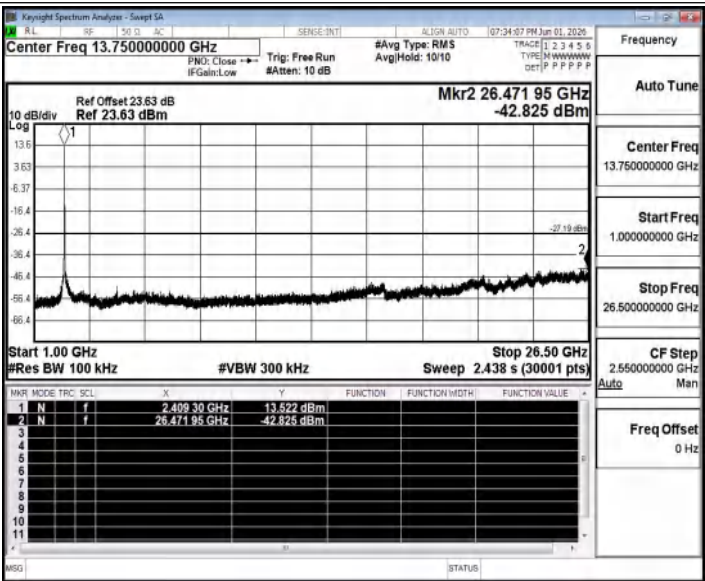
11N20SISO\_Ant1\_2412\_0~Reference



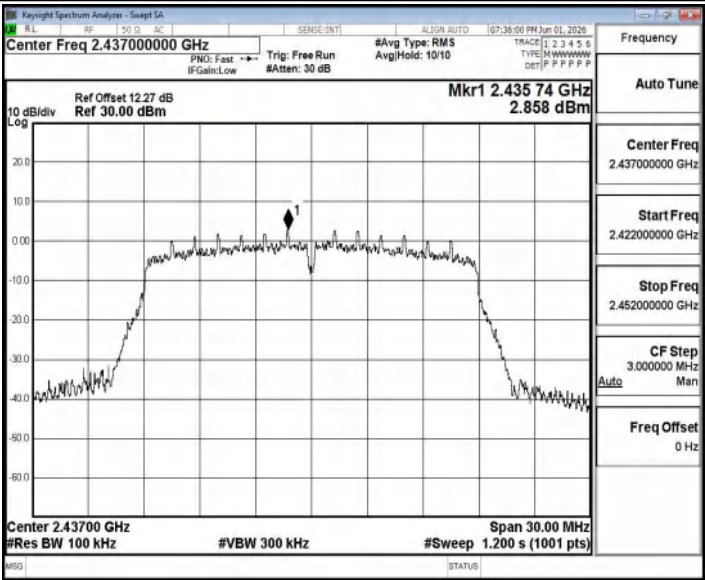
11N20SISO\_Ant1\_2412\_30~1000



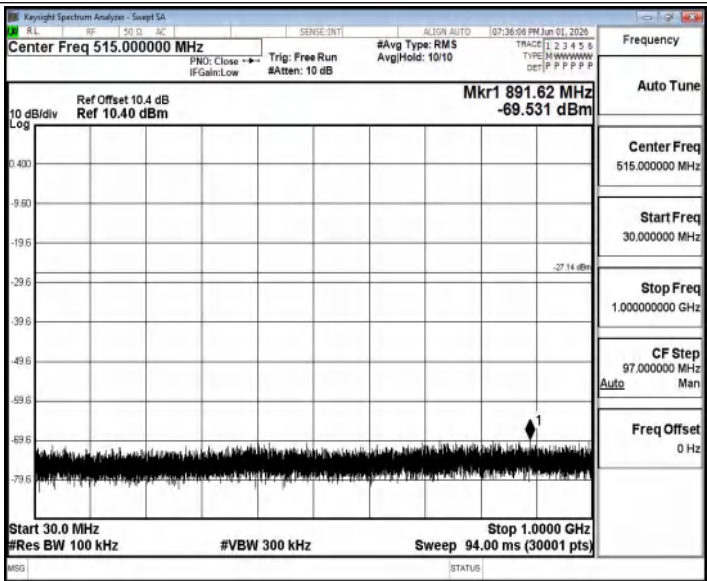
11N20SISO\_Ant1\_2412\_1000~26500



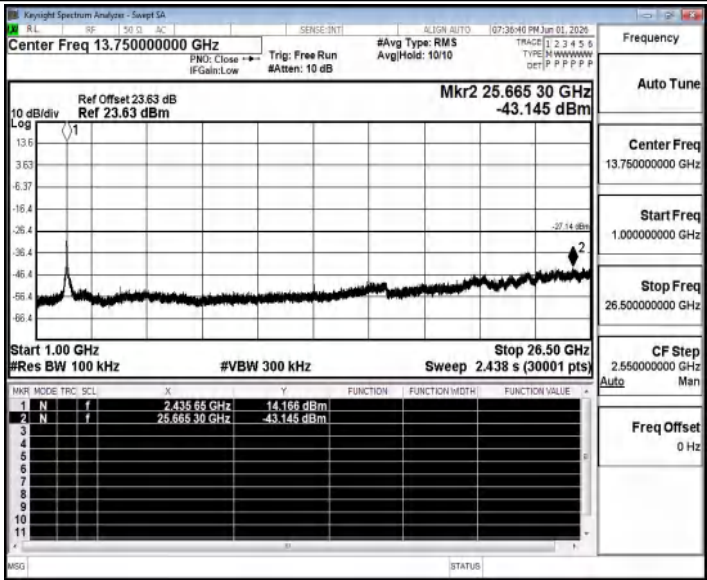
11N20ISO\_Ant1\_2437\_0~Reference



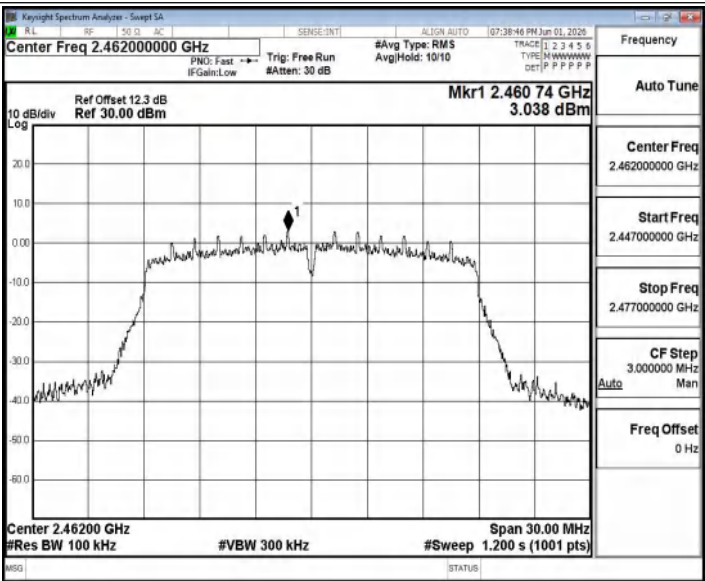
11N20ISO\_Ant1\_2437\_30~1000



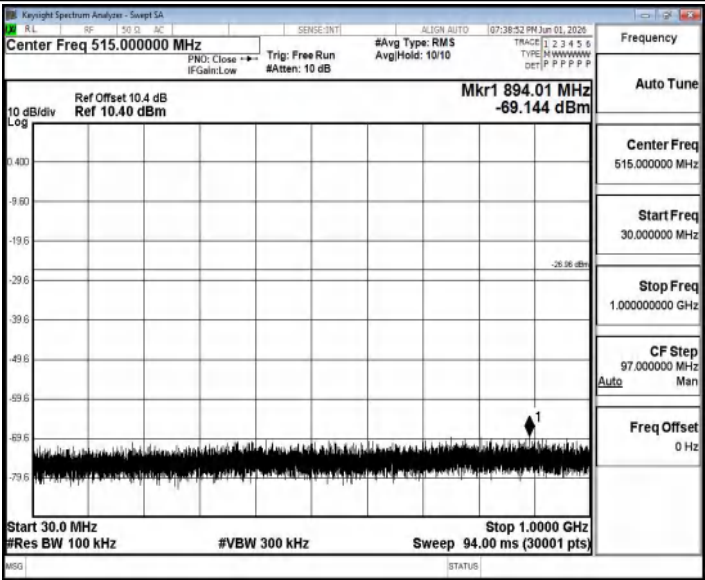
11N20SISO\_Ant1\_2437\_1000~26500



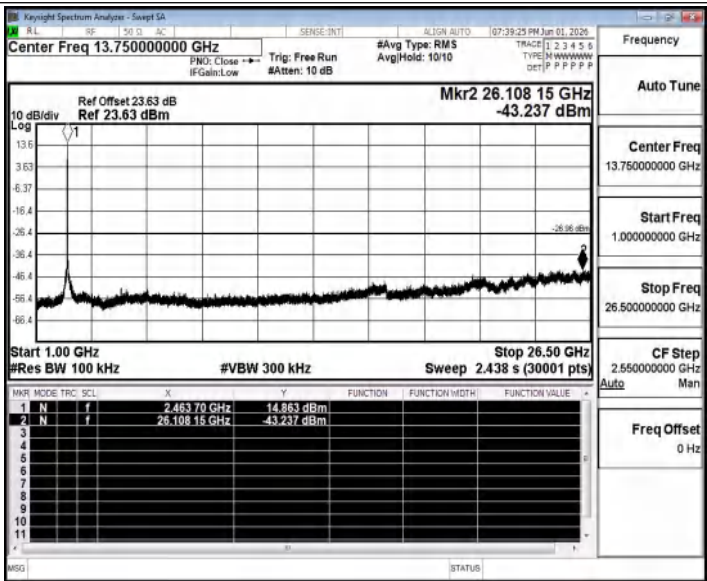
11N20SISO\_Ant1\_2462\_0~Reference



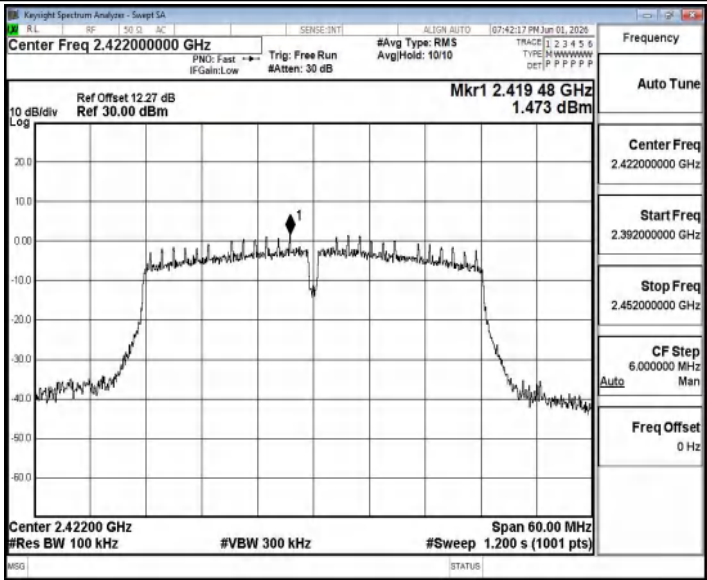
11N20SISO\_Ant1\_2462\_30~1000



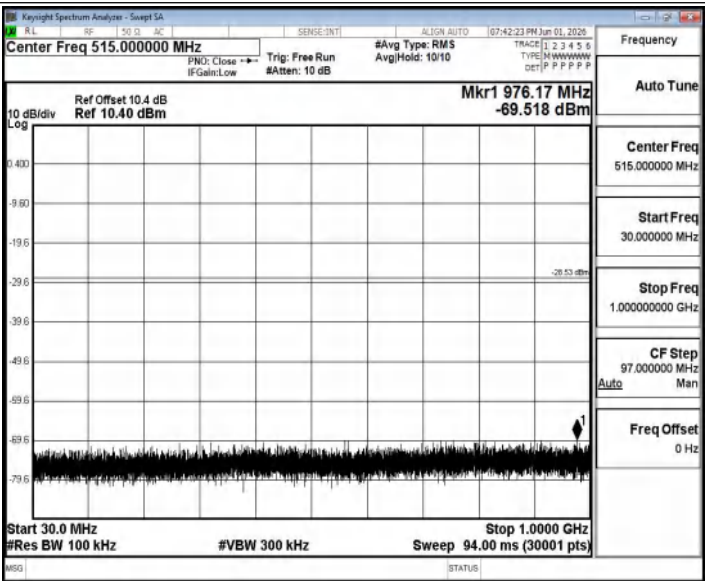
11N20SISO\_Ant1\_2462\_1000~26500



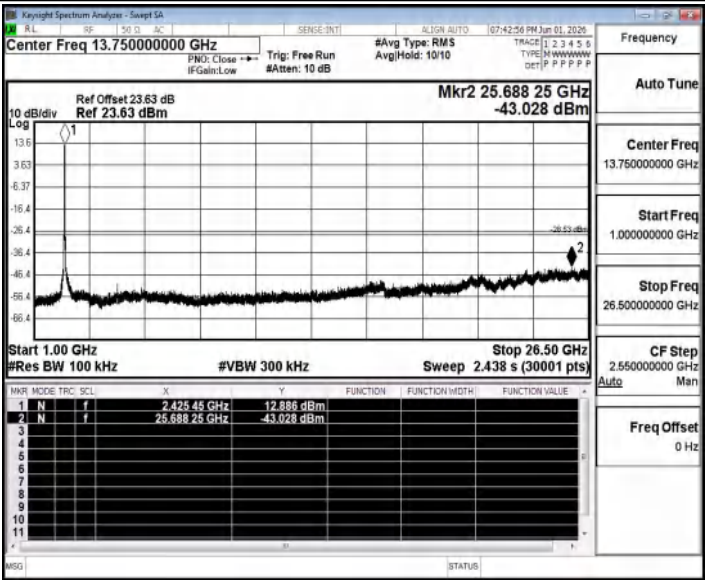
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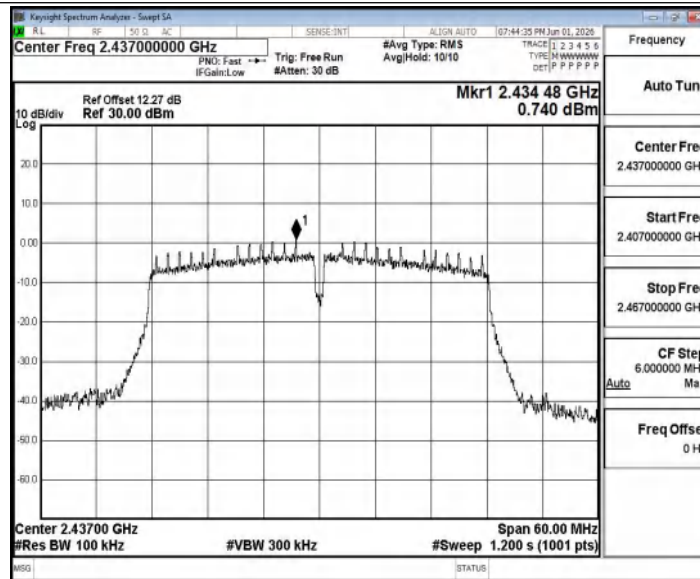
11N40SISO\_Ant1\_2422\_30~1000



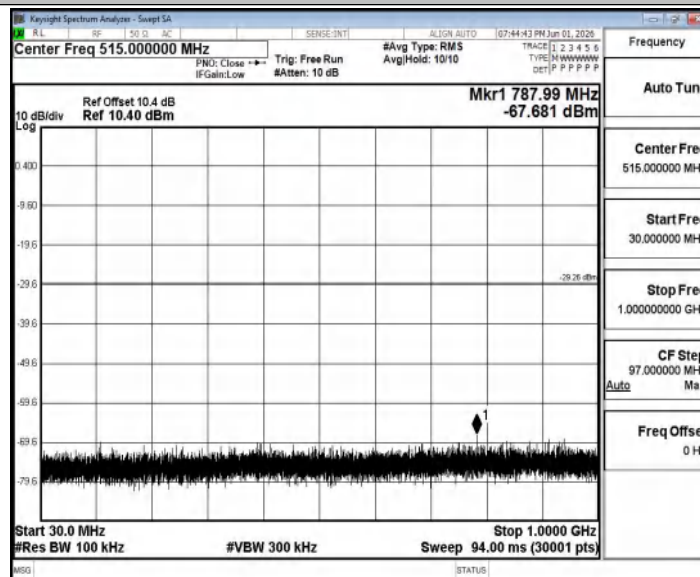
11N40SISO\_Ant1\_2422\_1000~26500



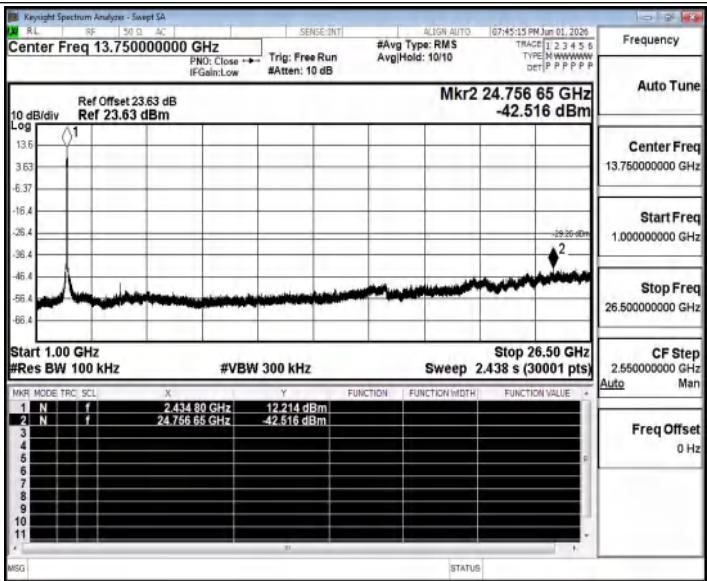
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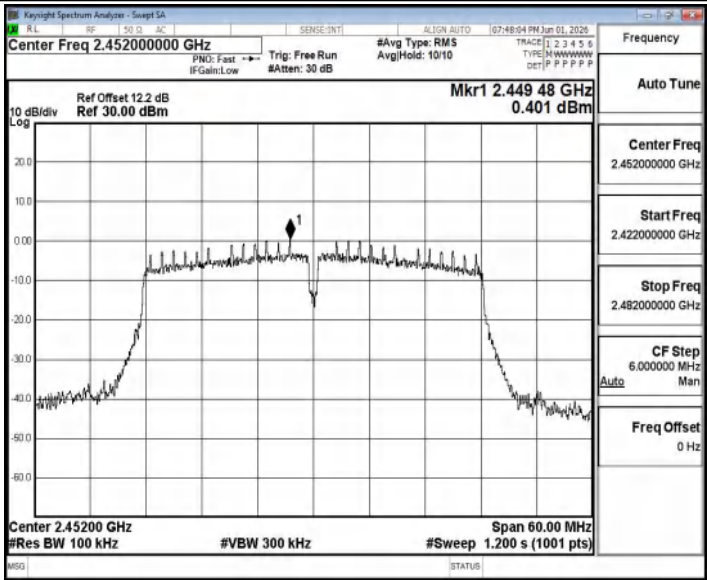
11N40SISO\_Ant1\_2437\_30~1000



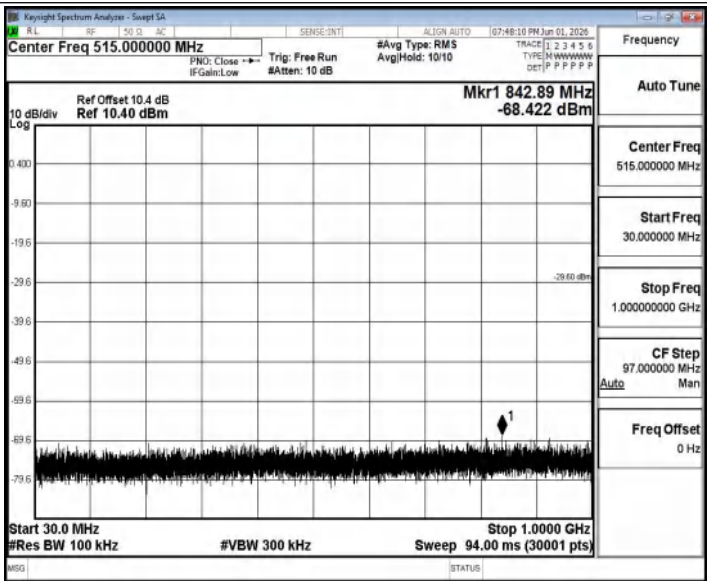
11N40SISO\_Ant1\_2437\_1000~26500



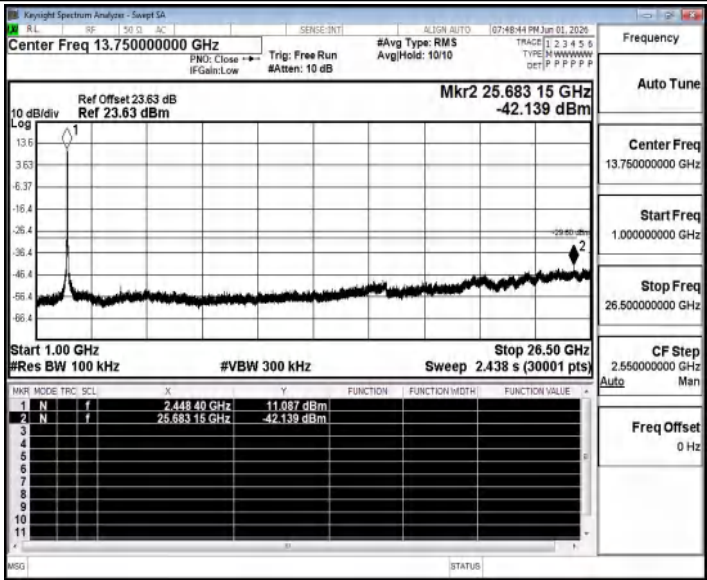
11N40SISO\_Ant1\_2452\_0~Reference



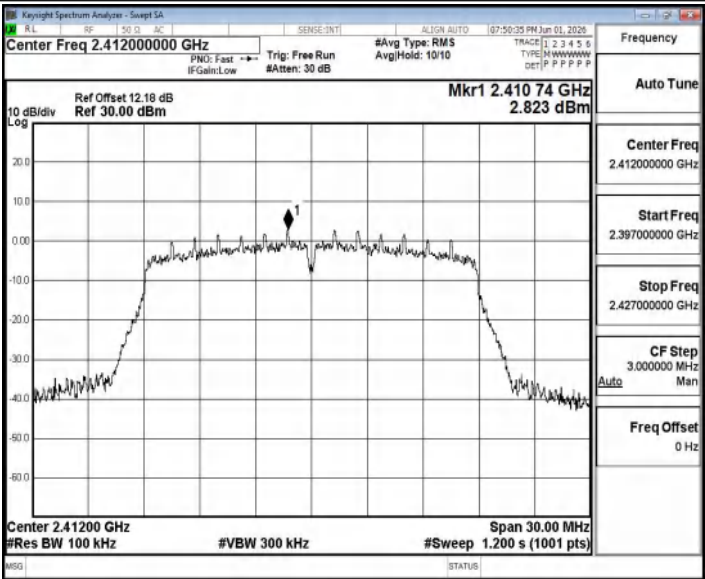
11N40SISO\_Ant1\_2452\_30~1000



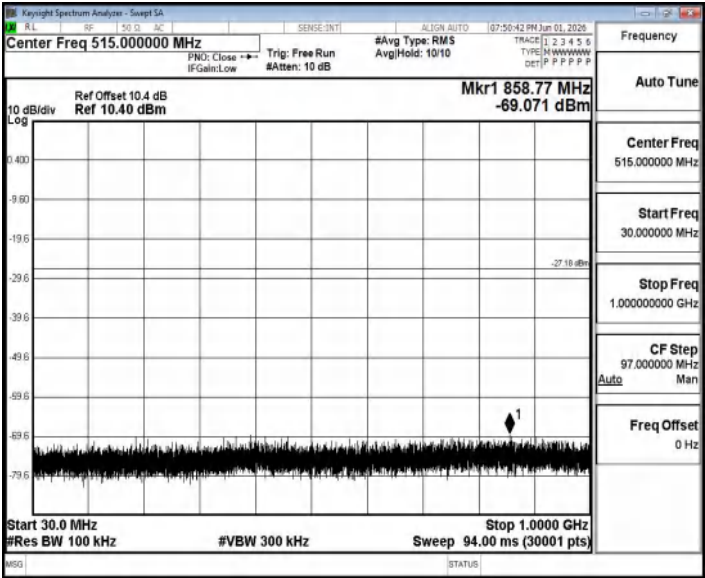
11N40SISO\_Ant1\_2452\_1000~26500



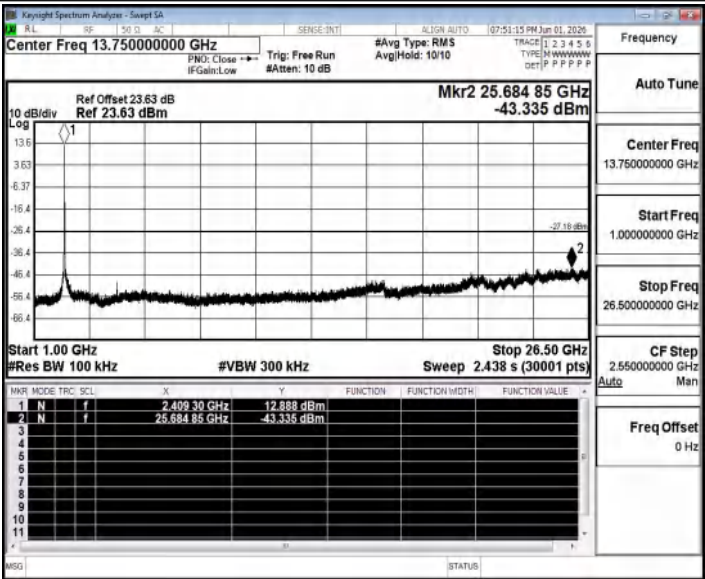
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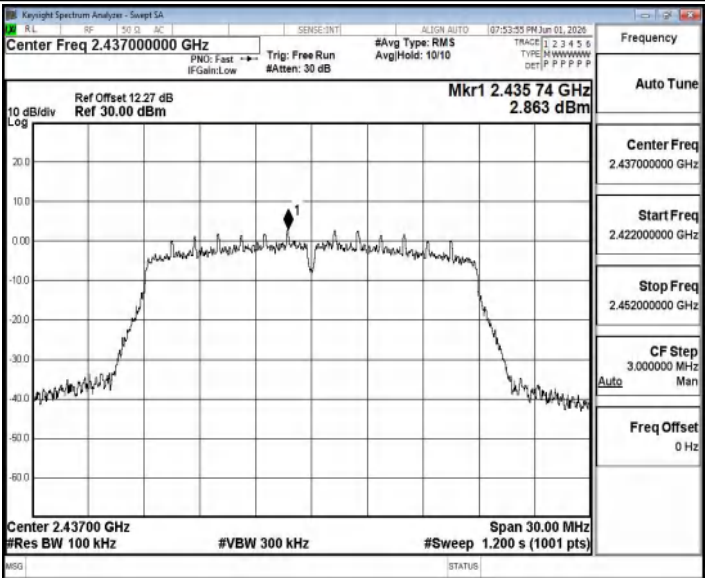
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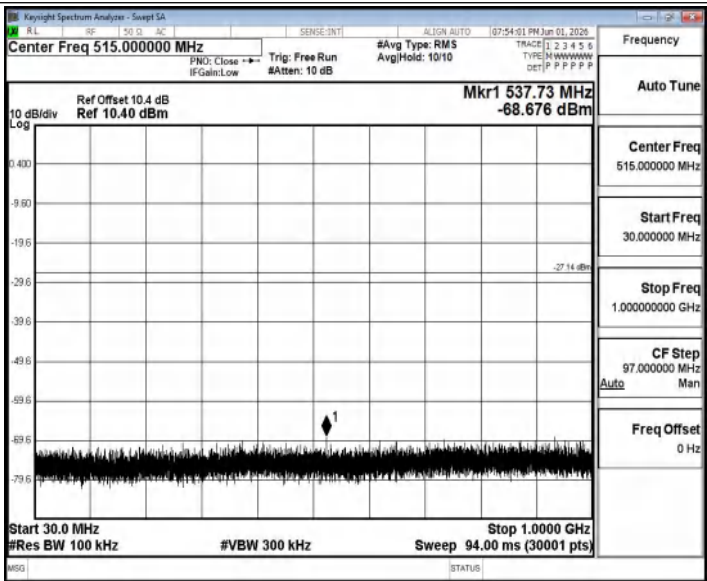
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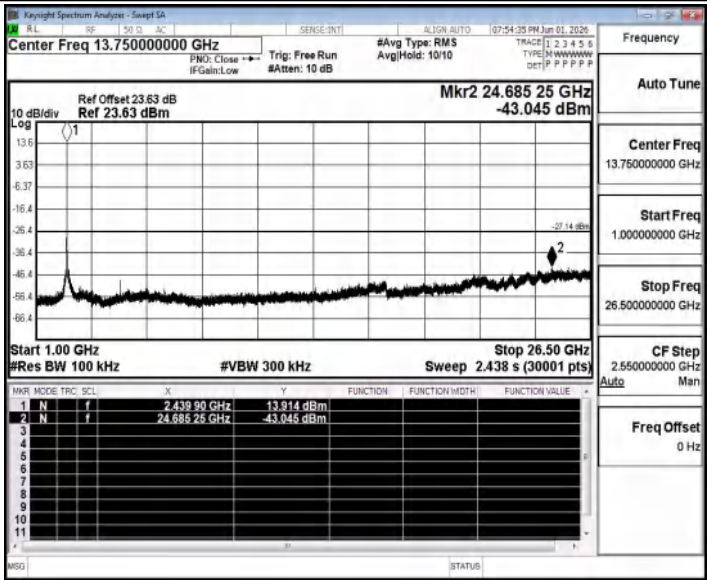
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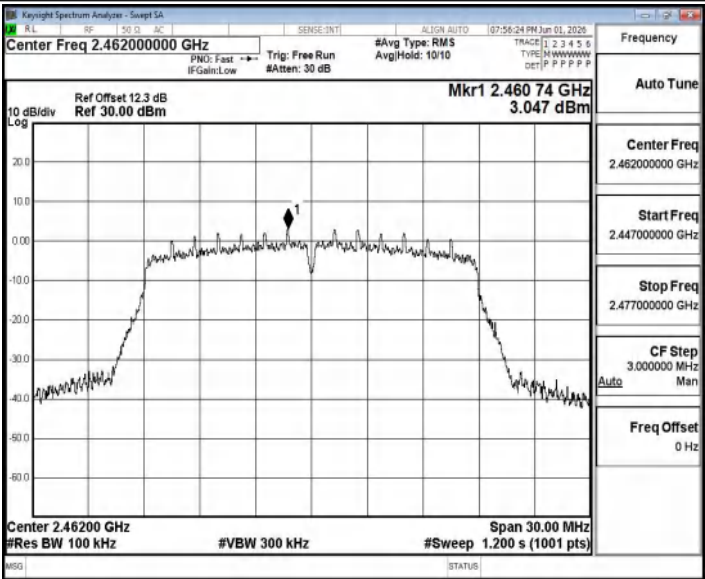
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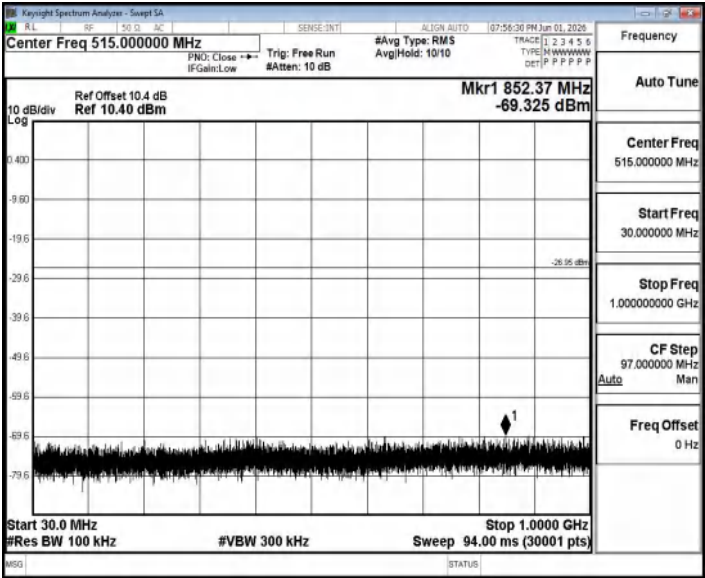
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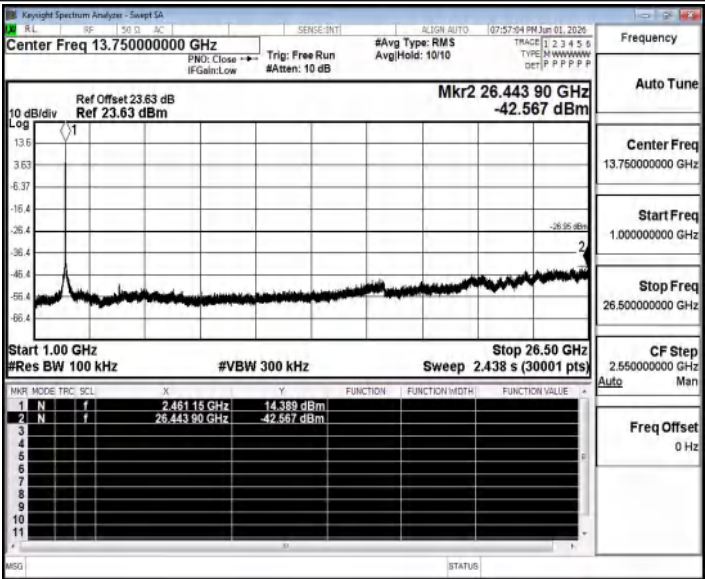
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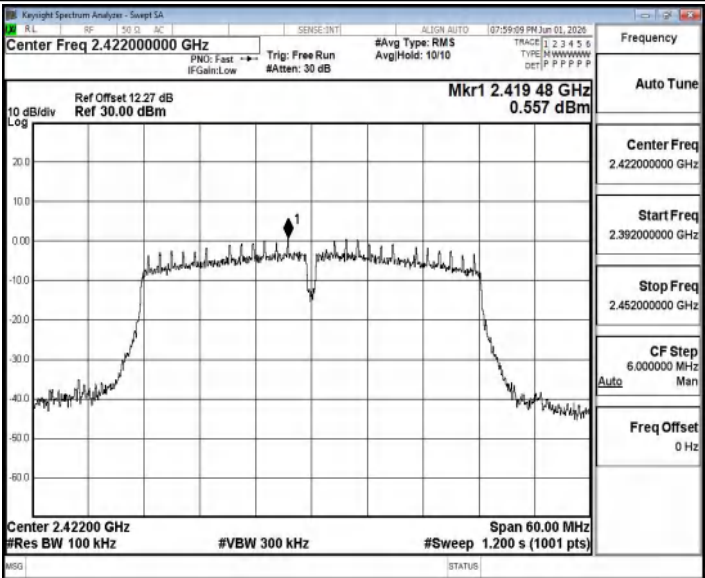
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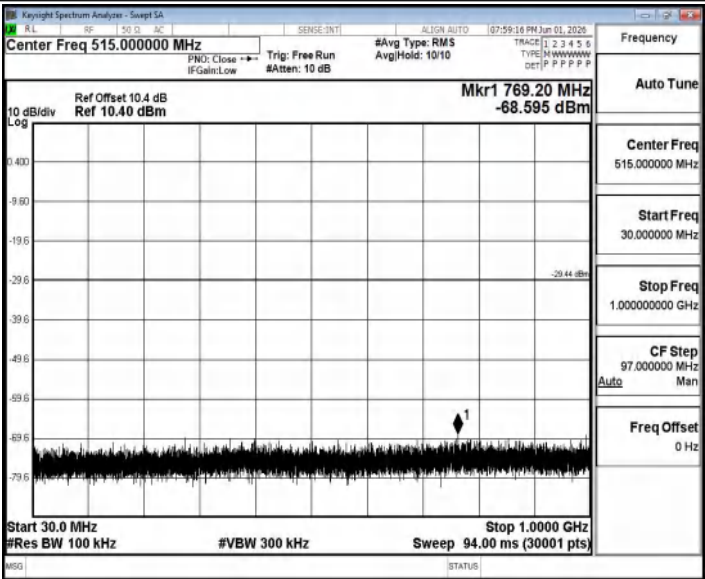
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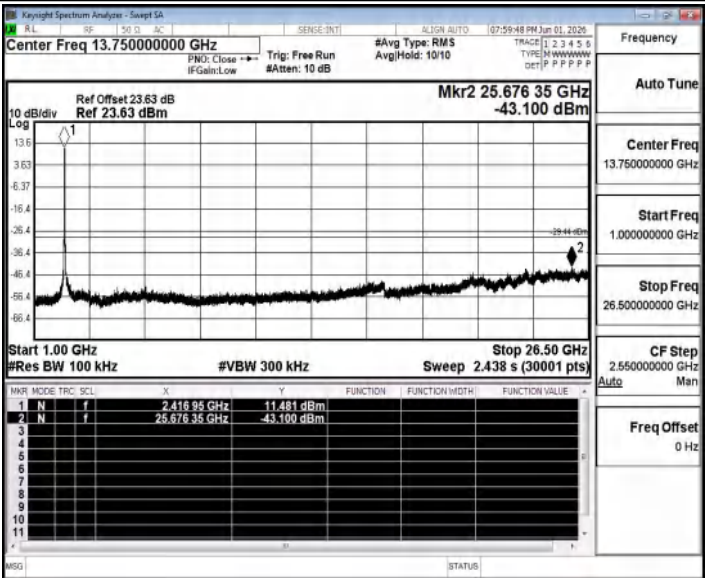
11AX40SISO\_Ant1\_2422\_0~Reference



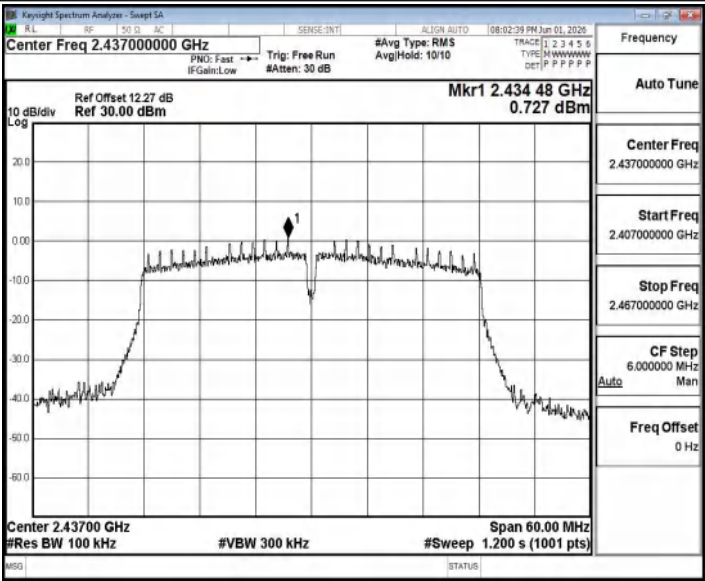
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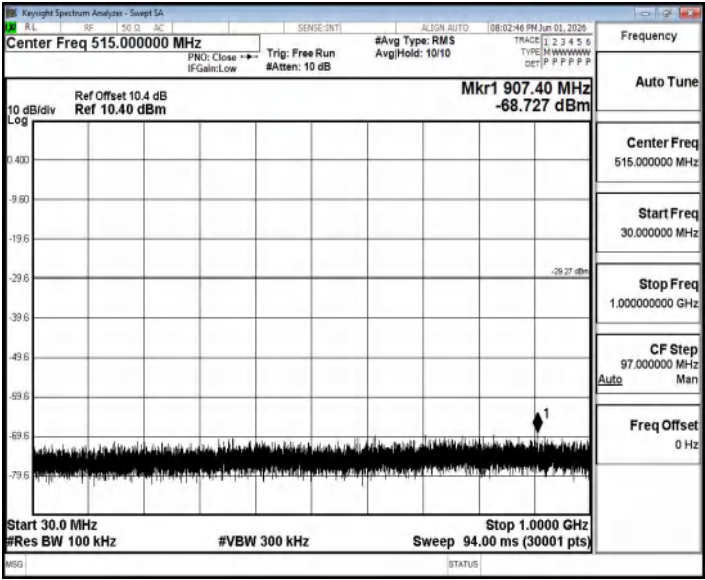
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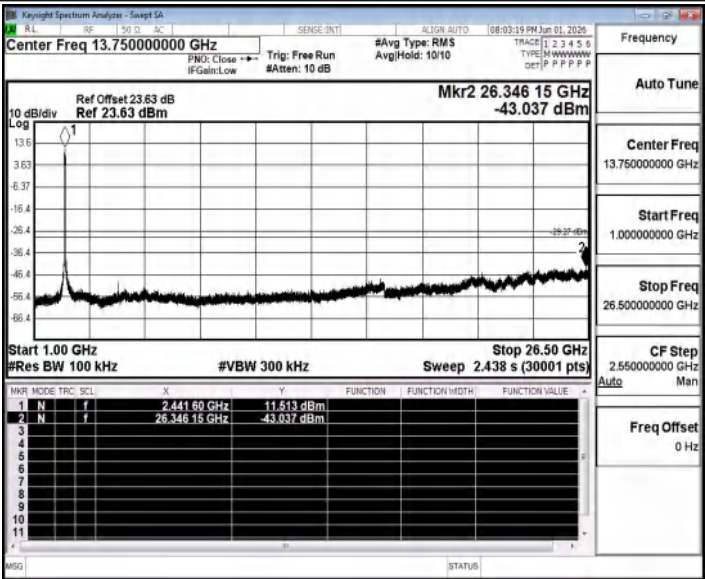
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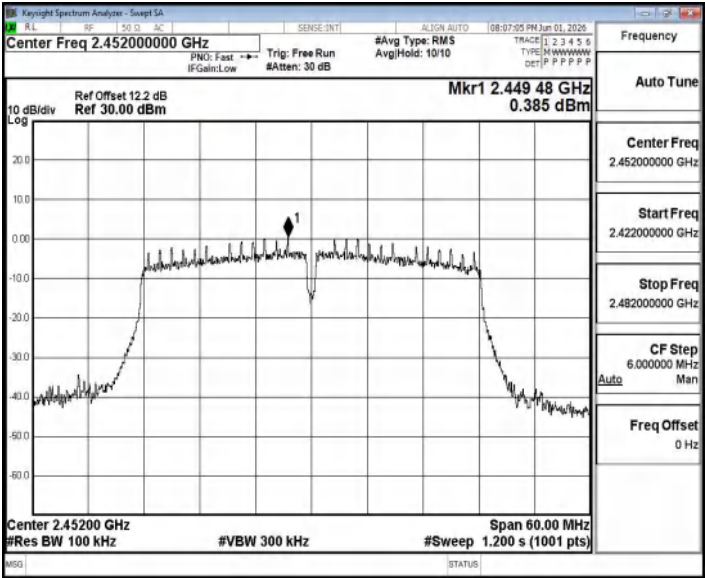
11AX40SISO\_Ant1\_2437\_30~1000



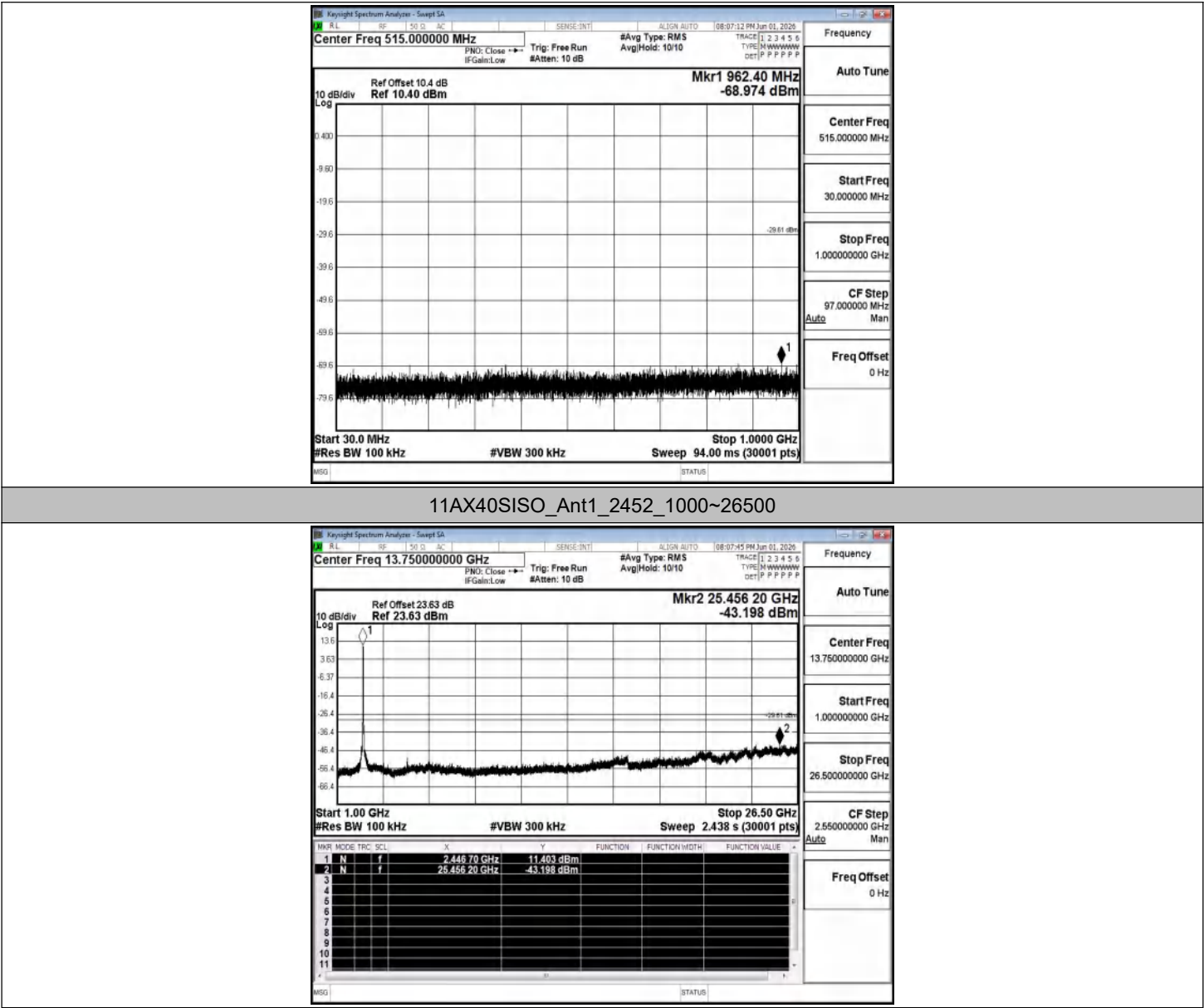
11AX40SISO\_Ant1\_2437\_1000~26500



11AX40SISO\_Ant1\_2452\_0~Reference



11AX40SISO\_Ant1\_2452\_30~1000



## B.6 Duty Cycle

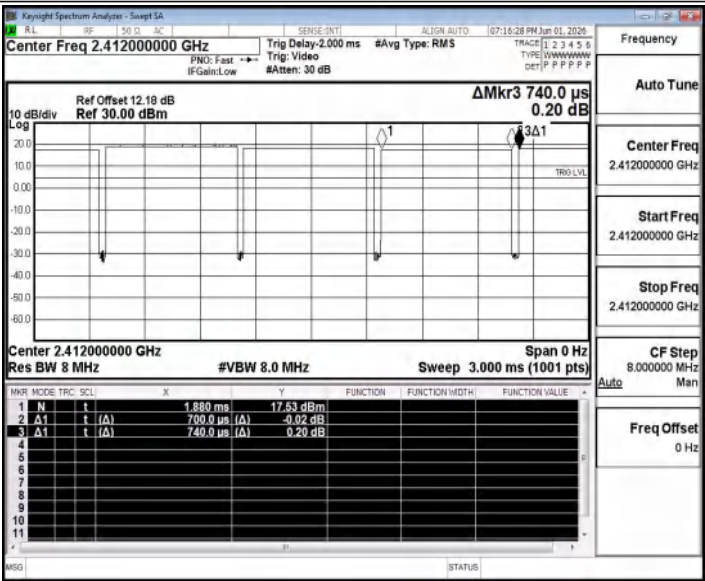
### Test Result

| TestMode   | Antenna | Frequency[MHz] | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | xFactor |
|------------|---------|----------------|----------------------------|--------------------------|----------------|---------|
| 11B        | Ant1    | 2412           | 0.70                       | 0.74                     | 94.59          | 0.24    |
|            |         | 2437           | 0.71                       | 0.74                     | 95.95          | 0.18    |
|            |         | 2462           | 0.70                       | 0.74                     | 94.59          | 0.24    |
| 11G        | Ant1    | 2412           | 0.11                       | 0.15                     | 73.33          | 1.35    |
|            |         | 2437           | 0.11                       | 0.16                     | 68.75          | 1.63    |
|            |         | 2462           | 0.12                       | 0.16                     | 75.00          | 1.25    |
| 11N20SISO  | Ant1    | 2412           | 0.12                       | 0.17                     | 70.59          | 1.51    |
|            |         | 2437           | 0.12                       | 0.17                     | 70.59          | 1.51    |
|            |         | 2462           | 0.12                       | 0.17                     | 70.59          | 1.51    |
| 11N40SISO  | Ant1    | 2422           | 0.08                       | 0.12                     | 66.67          | 1.76    |
|            |         | 2437           | 0.08                       | 0.12                     | 66.67          | 1.76    |
|            |         | 2452           | 0.08                       | 0.12                     | 66.67          | 1.76    |
| 11AX20SISO | Ant1    | 2412           | 0.13                       | 0.17                     | 76.47          | 1.17    |
|            |         | 2437           | 0.12                       | 0.17                     | 70.59          | 1.51    |
|            |         | 2462           | 0.13                       | 0.18                     | 72.22          | 1.41    |
| 11AX40SISO | Ant1    | 2422           | 0.08                       | 0.13                     | 61.54          | 2.11    |
|            |         | 2437           | 0.09                       | 0.13                     | 69.23          | 1.60    |
|            |         | 2452           | 0.08                       | 0.12                     | 66.67          | 1.76    |

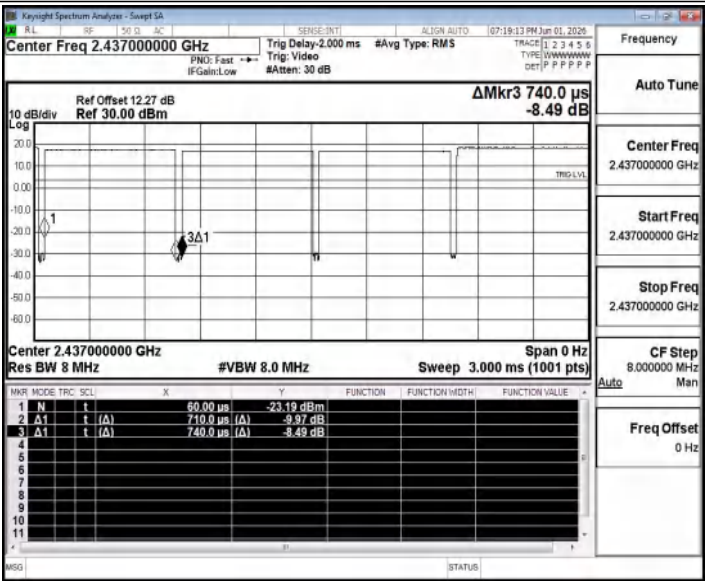
Note :offset=System attenuation +cabal loss

Test Graphs

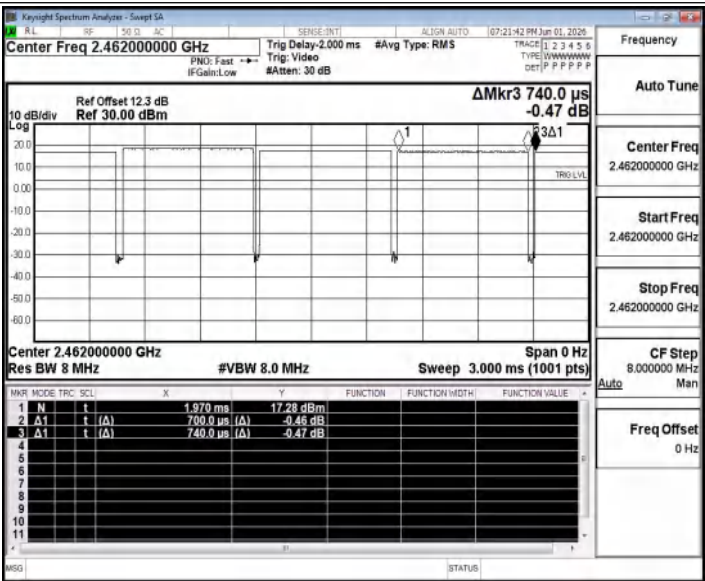
11B\_Ant1\_2412



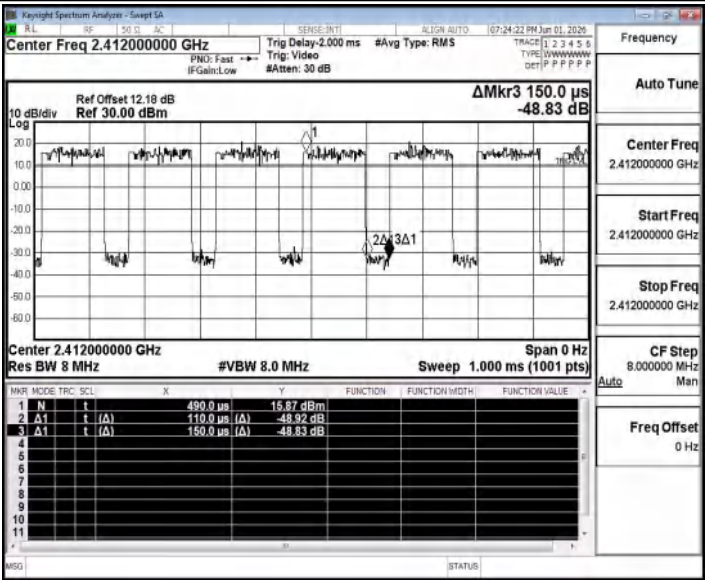
11B\_Ant1\_2437



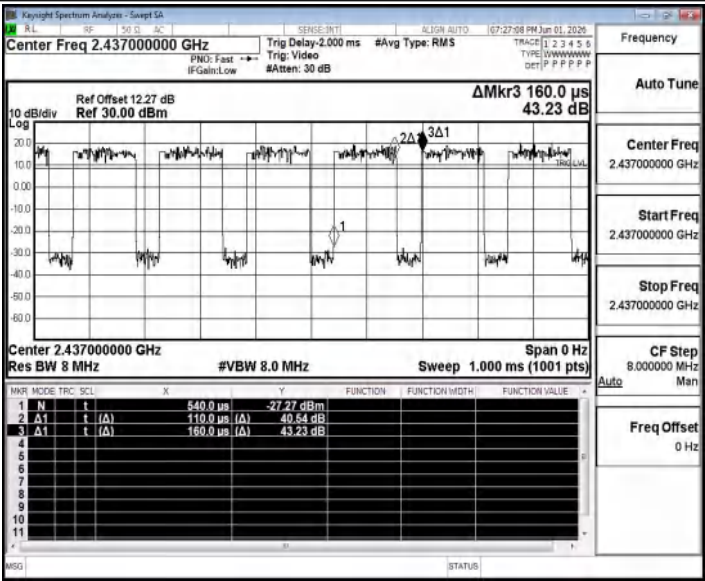
11B\_Ant1\_2462



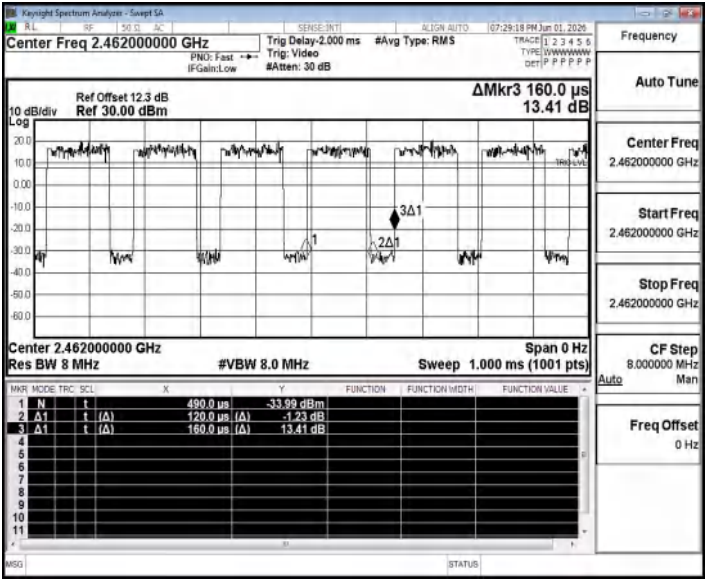
11G\_Ant1\_2412



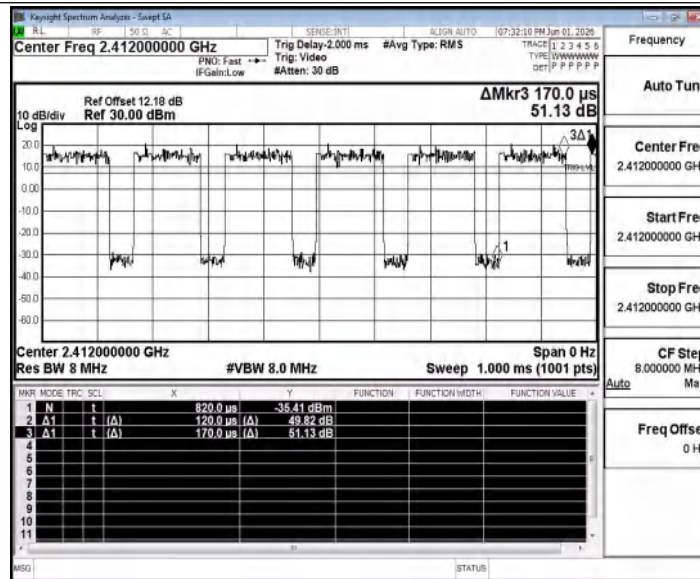
11G\_Ant1\_2437



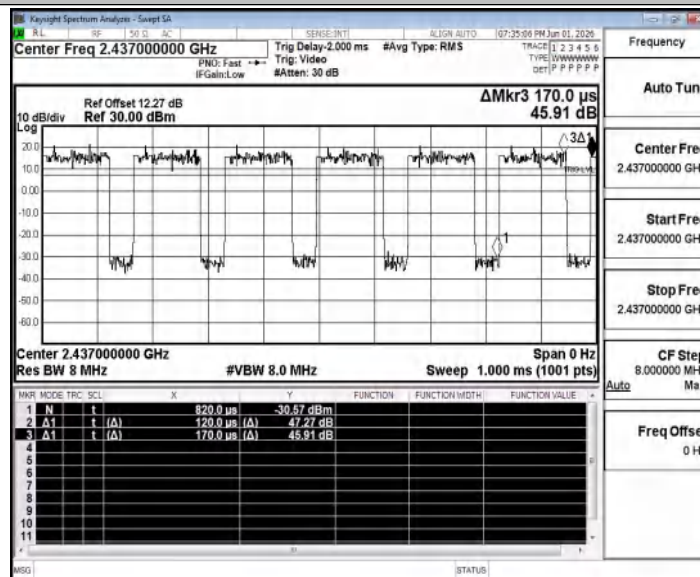
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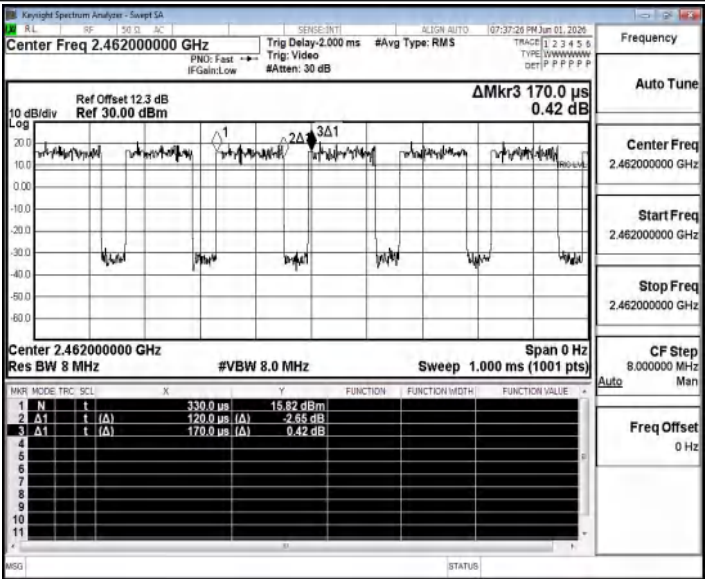
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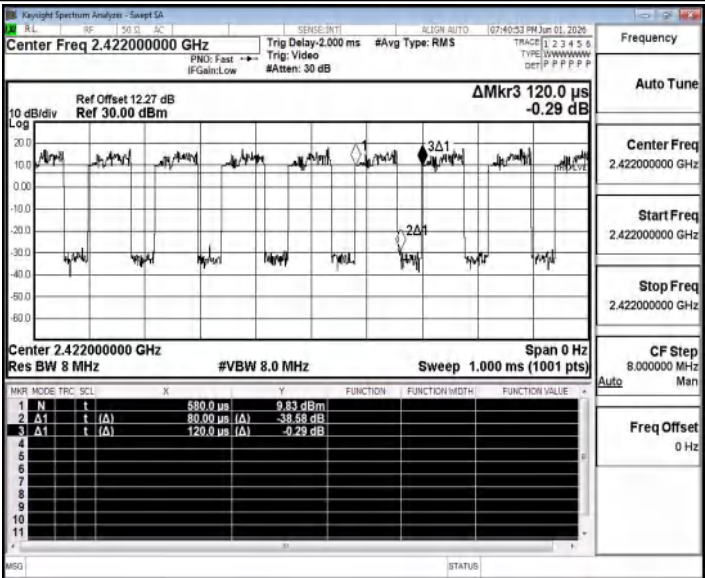
11N20SISO\_Ant1\_2437



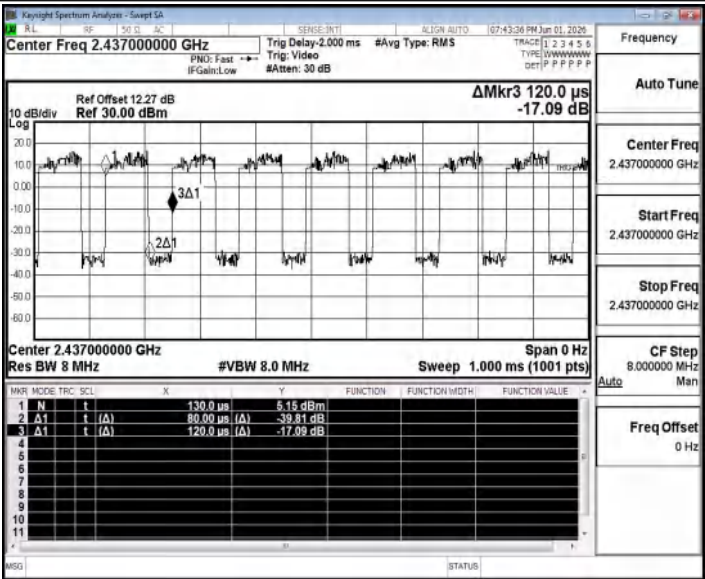
11N20SISO Ant1 2462



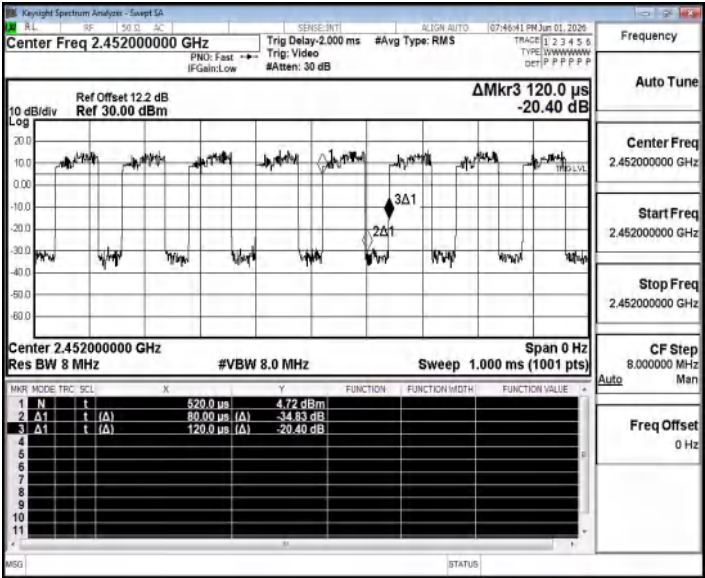
11N40SISO\_Ant1\_2422



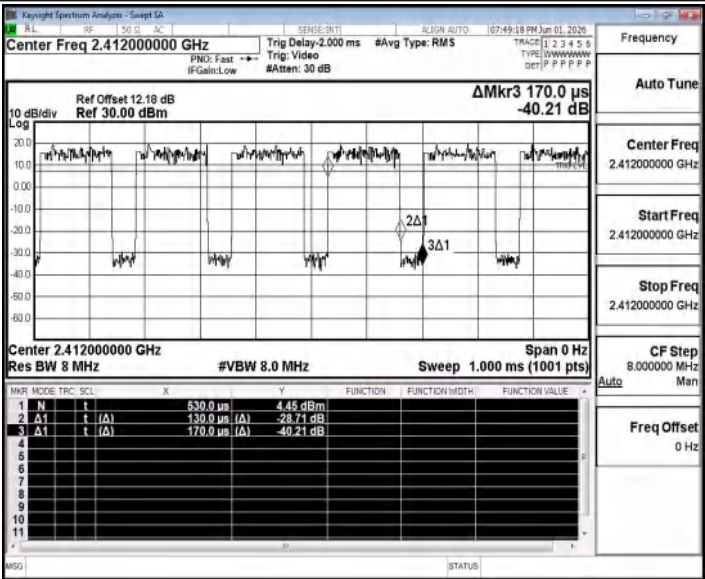
11N40SISO\_Ant1\_2437



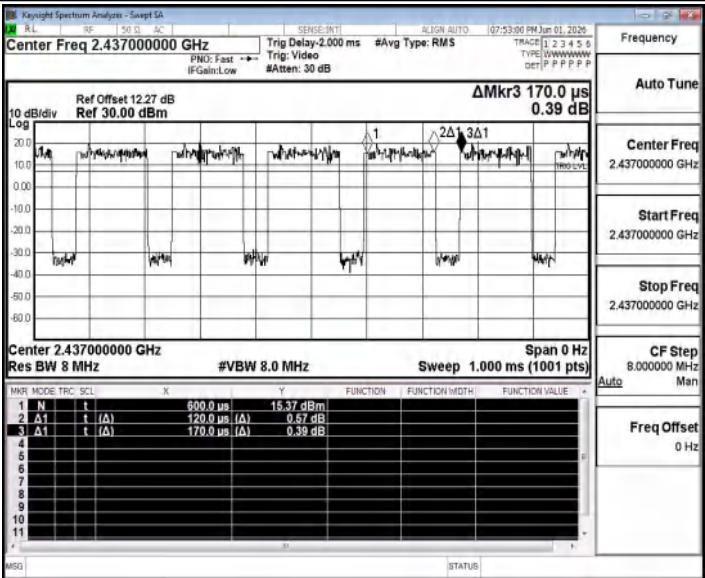
11N40SISO\_Ant1\_2452



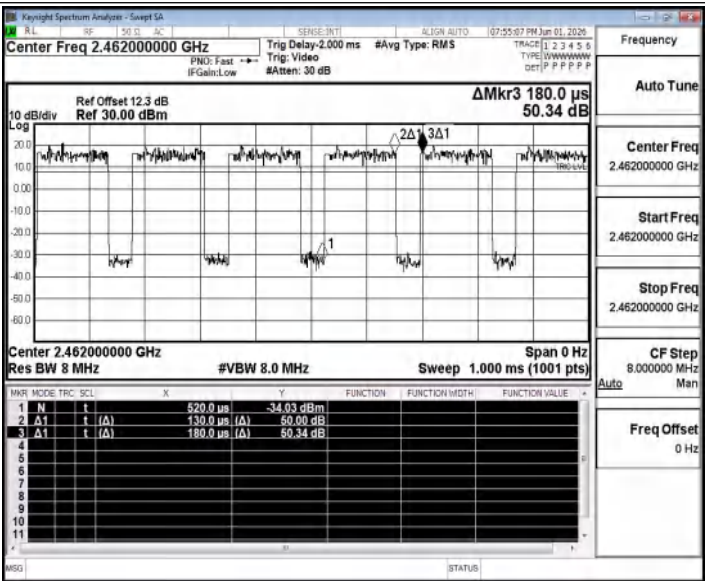
11AX20SISO\_Ant1\_2412



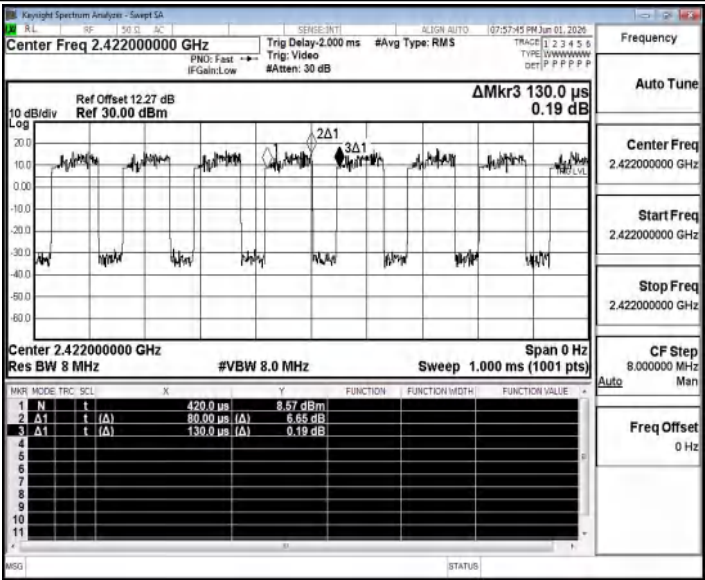
11AX20SISO\_Ant1\_2437



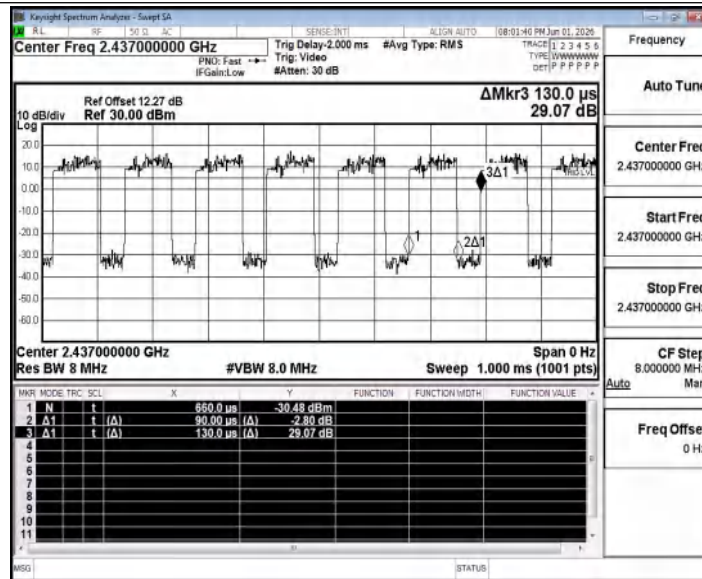
11AX20SISO\_Ant1\_2462



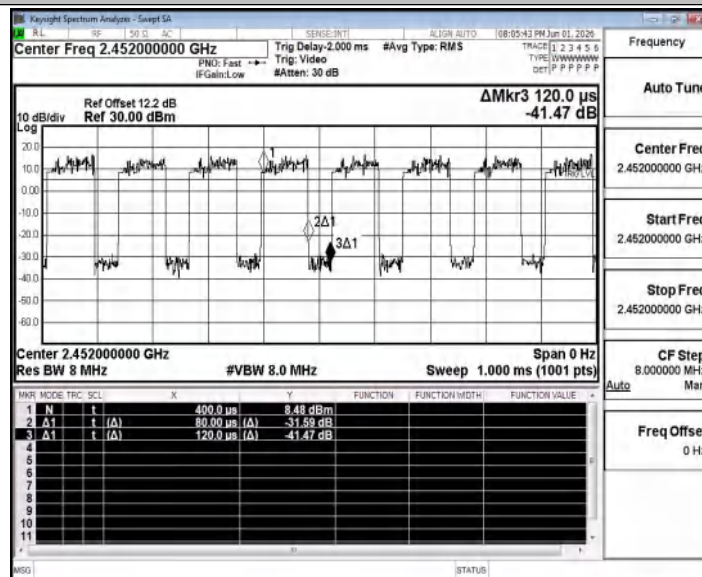
11AX40SISO\_Ant1\_2422



11AX40SISO\_Ant1\_2437



11AX40SISO\_Ant1\_2452



## B.7 Emissions in Restricted Bands

### Test Result

| TestMode | Antenna | ChName | Frequency[MHz] | Detector | Freq [MHz] | Result [dBm] | Limit [dBm] | Gain [dBi] | DC Factor [dB] | Result [dBuV/m] | Limit [dBuV/m] | Verdict |
|----------|---------|--------|----------------|----------|------------|--------------|-------------|------------|----------------|-----------------|----------------|---------|
| 11B      | Ant1    | Low    | 2412           | AV       | 2310.000   | -57.8        | ≤-45.30     | 3.86       | 0.24           | 41.50           | ≤54            | PASS    |
|          |         |        |                | AV       | 2389.180   | -56.55       | ≤-45.30     | 3.86       | 0.24           | 42.75           | ≤54            | PASS    |
|          |         |        |                | AV       | 2390.000   | -57.57       | ≤-45.30     | 3.86       | 0.24           | 41.73           | ≤54            | PASS    |
|          |         |        |                | Peak     | 2310.000   | -49.63       | ≤-25.06     | 3.86       | 0.00           | 49.43           | ≤74            | PASS    |
|          |         |        |                | Peak     | 2333.150   | -46.92       | ≤-25.06     | 3.86       | 0.00           | 52.14           | ≤74            | PASS    |
|          |         |        |                | Peak     | 2390.000   | -49.59       | ≤-25.06     | 3.86       | 0.00           | 49.47           | ≤74            | PASS    |
|          |         | High   | 2462           | AV       | 2483.500   | -56.11       | ≤-45.30     | 3.86       | 0.24           | 43.19           | ≤54            | PASS    |
|          |         |        |                | AV       | 2486.750   | -53.7        | ≤-45.30     | 3.86       | 0.24           | 45.60           | ≤54            | PASS    |
|          |         |        |                | AV       | 2500.000   | -57.54       | ≤-45.30     | 3.86       | 0.24           | 41.76           | ≤54            | PASS    |
|          |         |        |                | Peak     | 2483.500   | -48.2        | ≤-25.06     | 3.86       | 0.00           | 50.86           | ≤74            | PASS    |
|          |         |        |                | Peak     | 2487.630   | -44.63       | ≤-25.06     | 3.86       | 0.00           | 54.43           | ≤74            | PASS    |
|          |         |        |                | Peak     | 2500.000   | -47.82       | ≤-25.06     | 3.86       | 0.00           | 51.24           | ≤74            | PASS    |
| 11G      | Ant1    | Low    | 2412           | AV       | 2310.000   | -58.23       | ≤-46.41     | 3.86       | 1.35           | 42.18           | ≤54            | PASS    |
|          |         |        |                | AV       | 2389.700   | -55.19       | ≤-46.41     | 3.86       | 1.35           | 45.22           | ≤54            | PASS    |
|          |         |        |                | AV       | 2390.000   | -55.47       | ≤-46.41     | 3.86       | 1.35           | 44.94           | ≤54            | PASS    |
|          |         |        |                | Peak     | 2310.000   | -49.65       | ≤-25.06     | 3.86       | 0.00           | 49.41           | ≤74            | PASS    |
|          |         |        |                | Peak     | 2389.570   | -46.14       | ≤-25.06     | 3.86       | 0.00           | 52.92           | ≤74            | PASS    |
|          |         |        |                | Peak     | 2390.000   | -47.61       | ≤-25.06     | 3.86       | 0.00           | 51.45           | ≤74            | PASS    |
|          |         | High   | 2462           | AV       | 2483.500   | -52.69       | ≤-46.31     | 3.86       | 1.25           | 47.62           | ≤54            | PASS    |
|          |         |        |                | AV       | 2483.560   | -53.18       | ≤-46.31     | 3.86       | 1.25           | 47.13           | ≤54            | PASS    |

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|           |      |      |      |      |          |        |         |      |      |       |     |      |
|-----------|------|------|------|------|----------|--------|---------|------|------|-------|-----|------|
|           |      |      |      | AV   | 2500.000 | -57.67 | ≤-46.31 | 3.86 | 1.25 | 42.64 | ≤54 | PASS |
|           |      |      |      | Peak | 2483.500 | -42.33 | ≤-25.06 | 3.86 | 0.00 | 56.73 | ≤74 | PASS |
|           |      |      |      | Peak | 2483.560 | -43.4  | ≤-25.06 | 3.86 | 0.00 | 55.66 | ≤74 | PASS |
|           |      |      |      | Peak | 2500.000 | -49.85 | ≤-25.06 | 3.86 | 0.00 | 49.21 | ≤74 | PASS |
| 11N20SISO | Ant1 | Low  | 2412 | AV   | 2310.000 | -57.99 | ≤-46.57 | 3.86 | 1.51 | 42.58 | ≤54 | PASS |
|           |      |      |      | AV   | 2389.960 | -53.66 | ≤-46.57 | 3.86 | 1.51 | 46.91 | ≤54 | PASS |
|           |      |      |      | AV   | 2390.000 | -53.66 | ≤-46.57 | 3.86 | 1.51 | 46.91 | ≤54 | PASS |
|           |      |      |      | Peak | 2310.000 | -48.26 | ≤-25.06 | 3.86 | 0.00 | 50.80 | ≤74 | PASS |
|           |      |      |      | Peak | 2389.830 | -44.5  | ≤-25.06 | 3.86 | 0.00 | 54.56 | ≤74 | PASS |
|           |      |      |      | Peak | 2390.000 | -45.53 | ≤-25.06 | 3.86 | 0.00 | 53.53 | ≤74 | PASS |
|           |      | High | 2462 | AV   | 2483.500 | -51.28 | ≤-46.57 | 3.86 | 1.51 | 49.29 | ≤54 | PASS |
|           |      |      |      | AV   | 2483.670 | -51.96 | ≤-46.57 | 3.86 | 1.51 | 48.61 | ≤54 | PASS |
|           |      |      |      | AV   | 2500.000 | -57.24 | ≤-46.57 | 3.86 | 1.51 | 43.33 | ≤54 | PASS |
|           |      |      |      | Peak | 2483.500 | -41.08 | ≤-25.06 | 3.86 | 0.00 | 57.98 | ≤74 | PASS |
|           |      |      |      | Peak | 2483.560 | -41.35 | ≤-25.06 | 3.86 | 0.00 | 57.71 | ≤74 | PASS |
|           |      |      |      | Peak | 2500.000 | -47.24 | ≤-25.06 | 3.86 | 0.00 | 51.82 | ≤74 | PASS |
| 11N40SISO | Ant1 | Low  | 2422 | AV   | 2310.000 | -57.75 | ≤-46.82 | 3.86 | 1.76 | 43.07 | ≤54 | PASS |
|           |      |      |      | AV   | 2389.700 | -51.43 | ≤-46.82 | 3.86 | 1.76 | 49.39 | ≤54 | PASS |
|           |      |      |      | AV   | 2390.000 | -51.63 | ≤-46.82 | 3.86 | 1.76 | 49.19 | ≤54 | PASS |
|           |      |      |      | Peak | 2310.000 | -48.83 | ≤-25.06 | 3.86 | 0.00 | 50.23 | ≤74 | PASS |
|           |      |      |      | Peak | 2389.550 | -43.59 | ≤-25.06 | 3.86 | 0.00 | 55.47 | ≤74 | PASS |
|           |      |      |      | Peak | 2390.000 | -43.01 | ≤-25.06 | 3.86 | 0.00 | 56.05 | ≤74 | PASS |
|           |      | High | 2452 | AV   | 2483.500 | -49.92 | ≤-46.82 | 3.86 | 1.76 | 50.90 | ≤54 | PASS |

|            |      |      |      |      |          |        |         |      |      |       |     |      |
|------------|------|------|------|------|----------|--------|---------|------|------|-------|-----|------|
|            |      |      |      | AV   | 2484.250 | -49.03 | ≤-46.82 | 3.86 | 1.76 | 51.79 | ≤54 | PASS |
|            |      |      |      | AV   | 2500.000 | -57.54 | ≤-46.82 | 3.86 | 1.76 | 43.28 | ≤54 | PASS |
|            |      |      |      | Peak | 2483.500 | -40.49 | ≤-25.06 | 3.86 | 0.00 | 58.57 | ≤74 | PASS |
|            |      |      |      | Peak | 2483.625 | -38.01 | ≤-25.06 | 3.86 | 0.00 | 61.05 | ≤74 | PASS |
|            |      |      |      | Peak | 2500.000 | -49.28 | ≤-25.06 | 3.86 | 0.00 | 49.78 | ≤74 | PASS |
| 11AX20SISO | Ant1 | Low  | 2412 | AV   | 2310.000 | -58.28 | ≤-46.23 | 3.86 | 1.17 | 41.95 | ≤54 | PASS |
|            |      |      |      | AV   | 2389.830 | -52.21 | ≤-46.23 | 3.86 | 1.17 | 48.02 | ≤54 | PASS |
|            |      |      |      | AV   | 2390.000 | -52.61 | ≤-46.23 | 3.86 | 1.17 | 47.62 | ≤54 | PASS |
|            |      |      |      | Peak | 2310.000 | -50.41 | ≤-25.06 | 3.86 | 0.00 | 48.65 | ≤74 | PASS |
|            |      |      |      | Peak | 2389.310 | -42.41 | ≤-25.06 | 3.86 | 0.00 | 56.65 | ≤74 | PASS |
|            |      |      |      | Peak | 2390.000 | -42.82 | ≤-25.06 | 3.86 | 0.00 | 56.24 | ≤74 | PASS |
|            |      | High | 2462 | AV   | 2483.500 | -52.19 | ≤-46.47 | 3.86 | 1.41 | 48.28 | ≤54 | PASS |
|            |      |      |      | AV   | 2483.560 | -52.23 | ≤-46.47 | 3.86 | 1.41 | 48.24 | ≤54 | PASS |
|            |      |      |      | AV   | 2500.000 | -57.79 | ≤-46.47 | 3.86 | 1.41 | 42.68 | ≤54 | PASS |
|            |      |      |      | Peak | 2483.500 | -41.48 | ≤-25.06 | 3.86 | 0.00 | 57.58 | ≤74 | PASS |
|            |      |      |      | Peak | 2483.890 | -41.24 | ≤-25.06 | 3.86 | 0.00 | 57.82 | ≤74 | PASS |
|            |      |      |      | Peak | 2500.000 | -50.08 | ≤-25.06 | 3.86 | 0.00 | 48.98 | ≤74 | PASS |
| 11AX40SISO | Ant1 | Low  | 2422 | AV   | 2310.000 | -57.78 | ≤-47.17 | 3.86 | 2.11 | 43.39 | ≤54 | PASS |
|            |      |      |      | AV   | 2389.550 | -51.03 | ≤-47.17 | 3.86 | 2.11 | 50.14 | ≤54 | PASS |
|            |      |      |      | AV   | 2390.000 | -50.96 | ≤-47.17 | 3.86 | 2.11 | 50.21 | ≤54 | PASS |
|            |      |      |      | Peak | 2310.000 | -48.74 | ≤-25.06 | 3.86 | 0.00 | 50.32 | ≤74 | PASS |
|            |      |      |      | Peak | 2389.850 | -41.87 | ≤-25.06 | 3.86 | 0.00 | 57.19 | ≤74 | PASS |
|            |      |      |      | Peak | 2390.000 | -43.47 | ≤-25.06 | 3.86 | 0.00 | 55.59 | ≤74 | PASS |

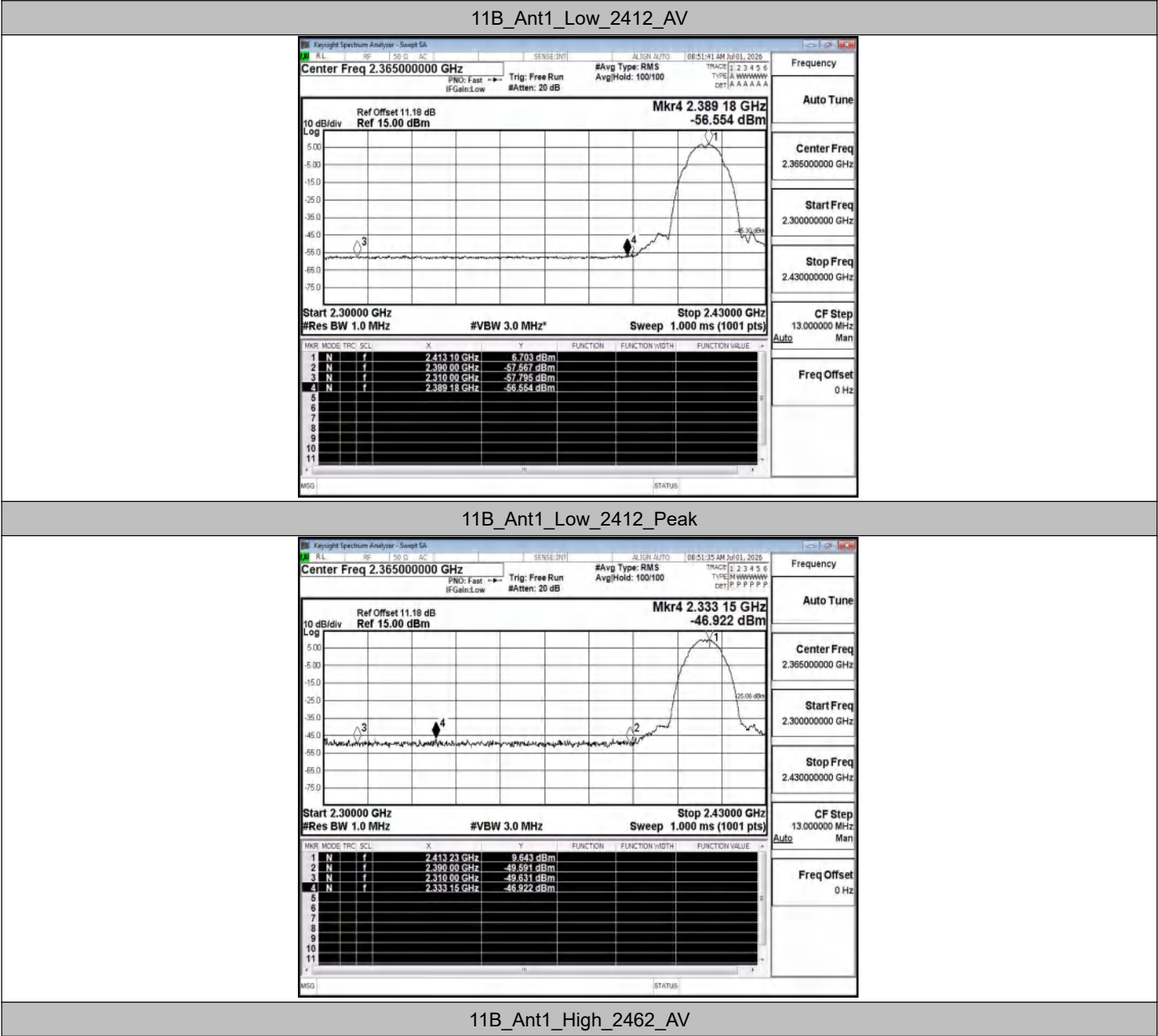
|  |  |      |      |      |          |        |         |      |      |       |     |      |
|--|--|------|------|------|----------|--------|---------|------|------|-------|-----|------|
|  |  |      |      | AV   | 2483.500 | -49.94 | ≤-46.82 | 3.86 | 1.76 | 50.88 | ≤54 | PASS |
|  |  |      |      | AV   | 2484.375 | -49.05 | ≤-46.82 | 3.86 | 1.76 | 51.77 | ≤54 | PASS |
|  |  |      |      | AV   | 2500.000 | -57.4  | ≤-46.82 | 3.86 | 1.76 | 43.42 | ≤54 | PASS |
|  |  | High | 2452 | Peak | 2483.500 | -41.68 | ≤-25.06 | 3.86 | 0.00 | 57.38 | ≤74 | PASS |
|  |  |      |      | Peak | 2483.875 | -38.28 | ≤-25.06 | 3.86 | 0.00 | 60.78 | ≤74 | PASS |
|  |  |      |      | Peak | 2500.000 | -50.31 | ≤-25.06 | 3.86 | 0.00 | 48.75 | ≤74 | PASS |

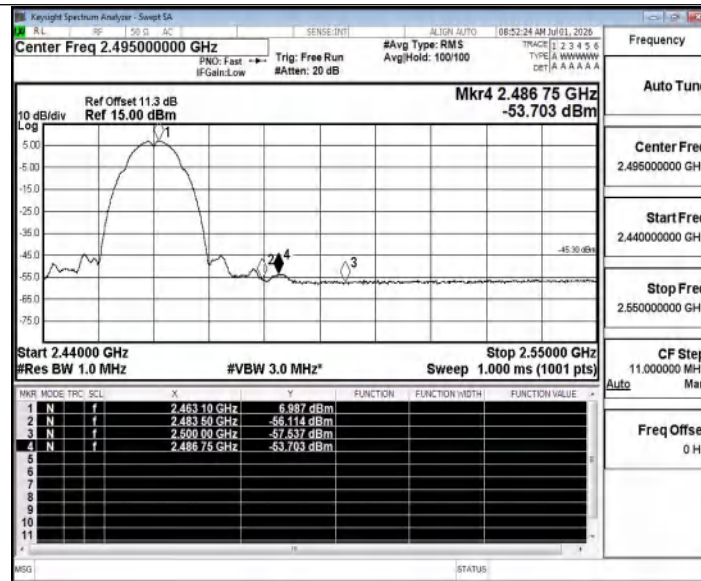
Note :offset=System attenuation +cable loss

Note:

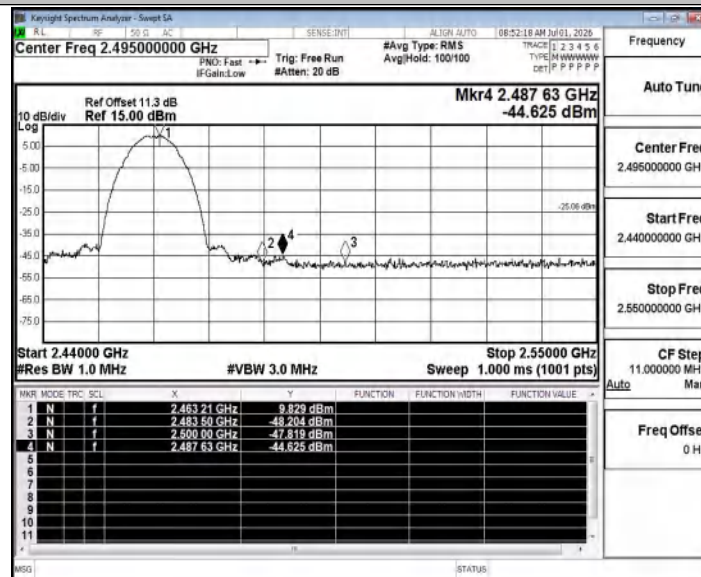
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

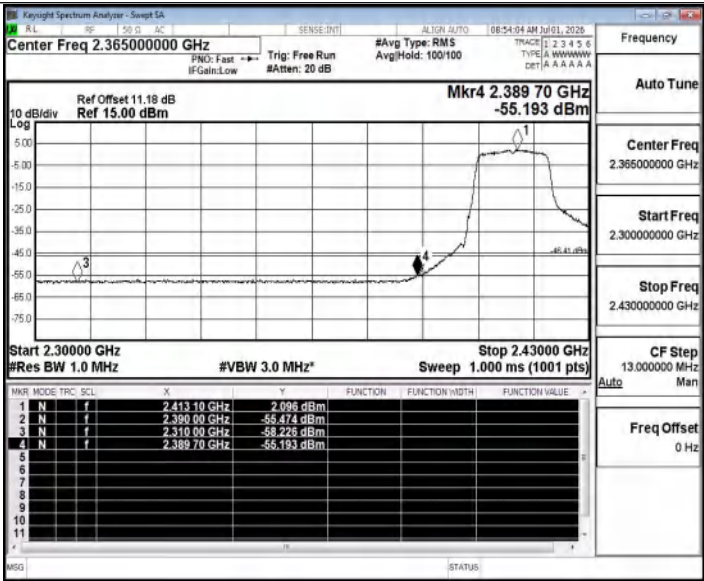




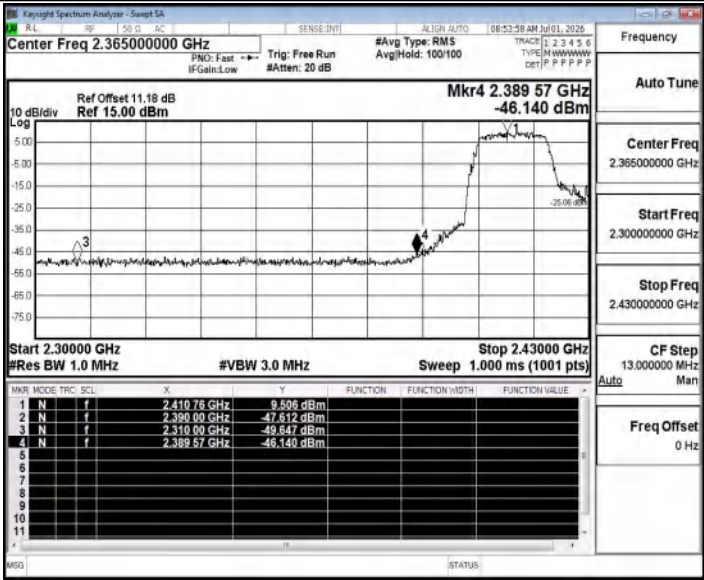
11B\_Ant1\_High\_2462\_Peak



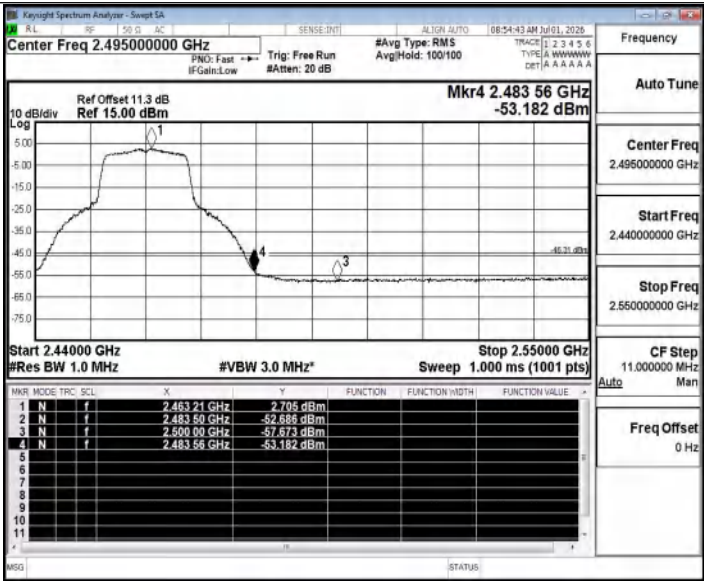
11G\_Ant1\_Low\_2412\_AV



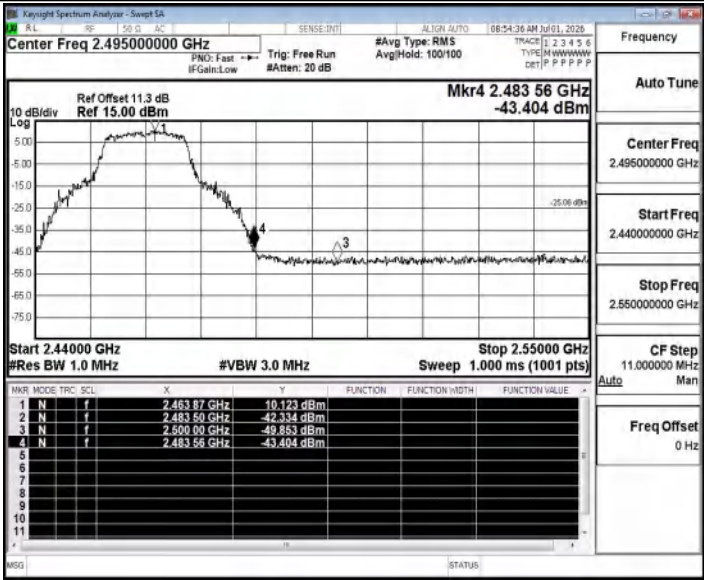
11G\_Ant1\_Low\_2412\_Peak



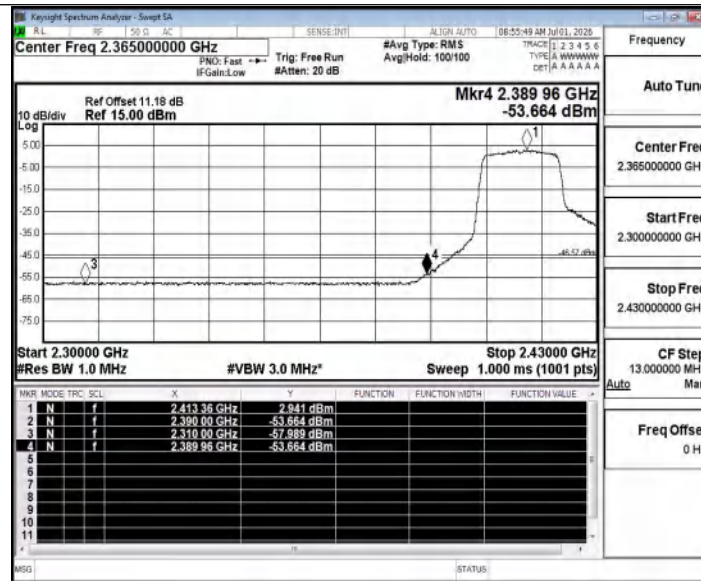
11G\_Ant1\_High\_2462\_AV



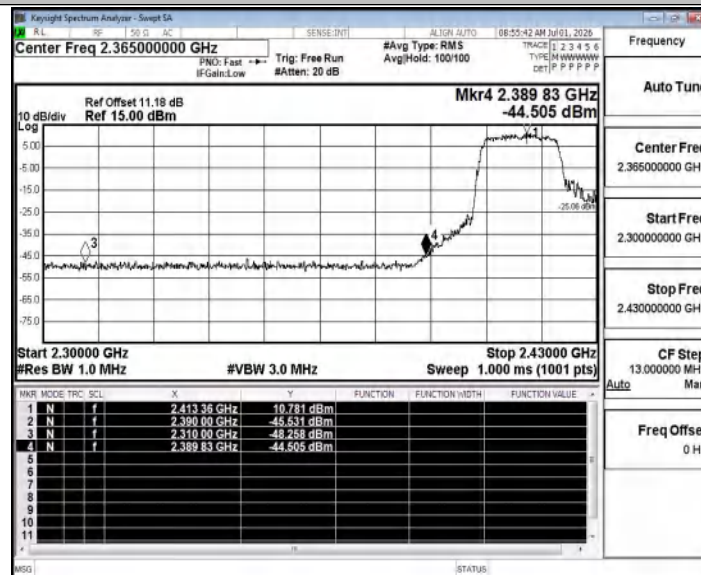
11G\_Ant1\_High\_2462\_Peak



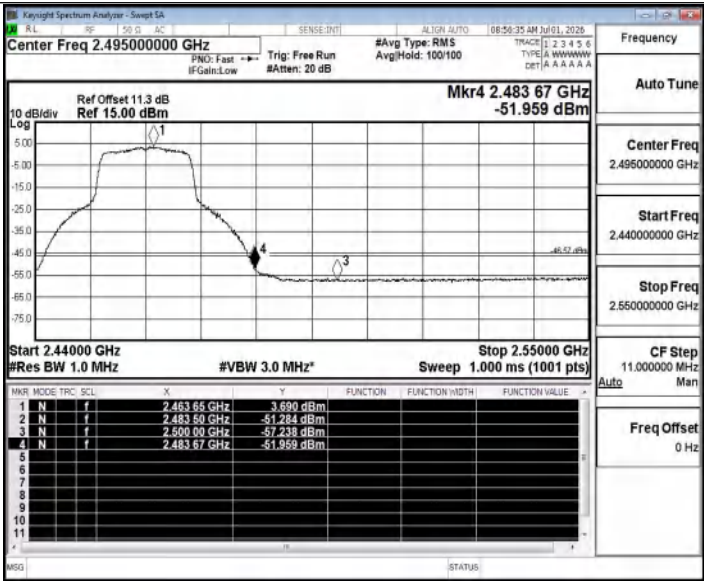
11N20SISO\_Ant1\_Low\_2412\_AV



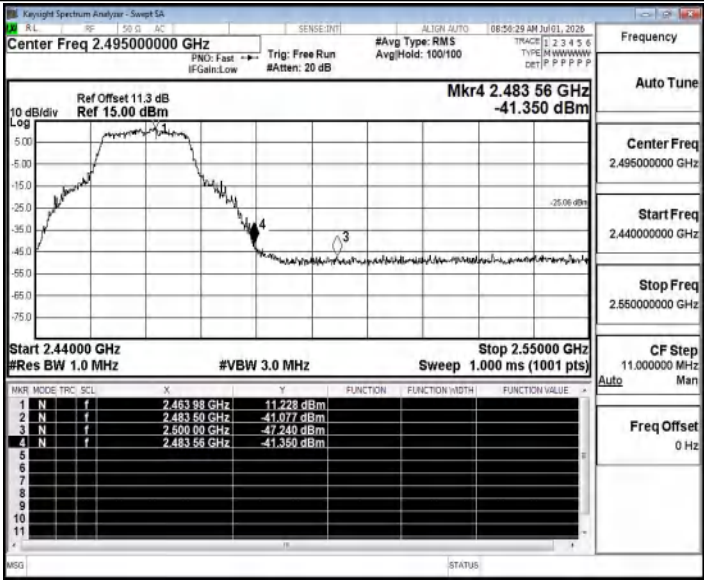
11N20SISO\_Ant1\_Low\_2412\_Peak



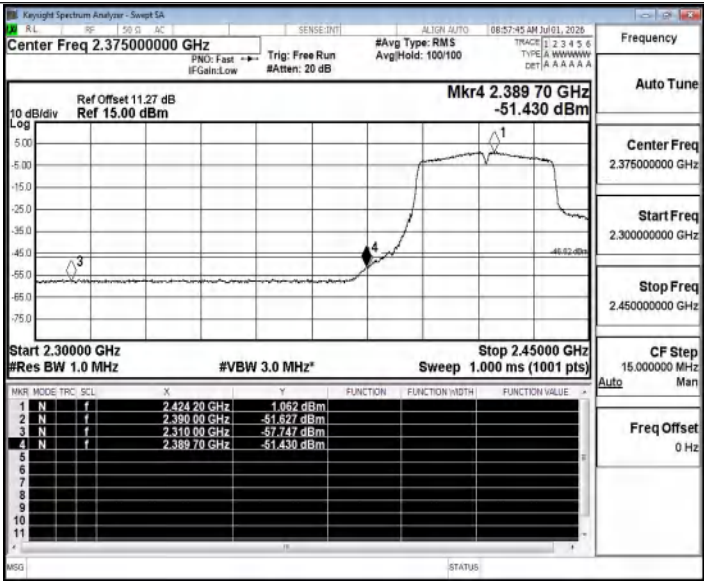
11N20SISO\_Ant1\_High\_2462\_AV



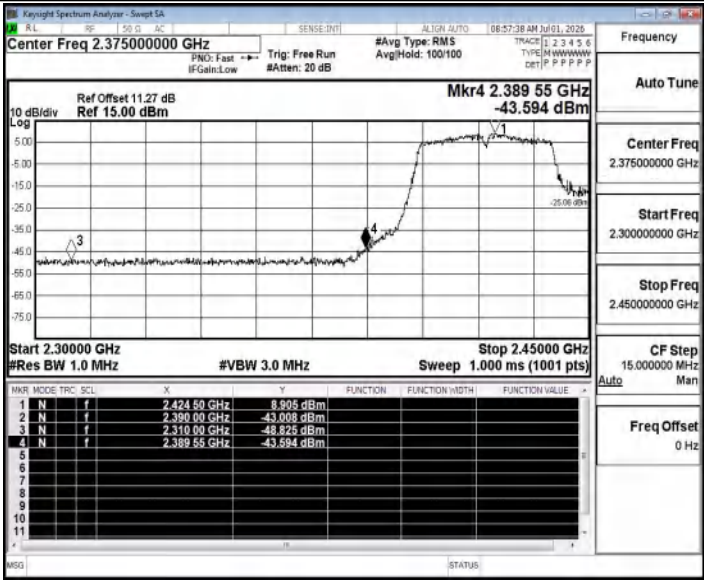
11N20SISO\_Ant1\_High\_2462\_Peak



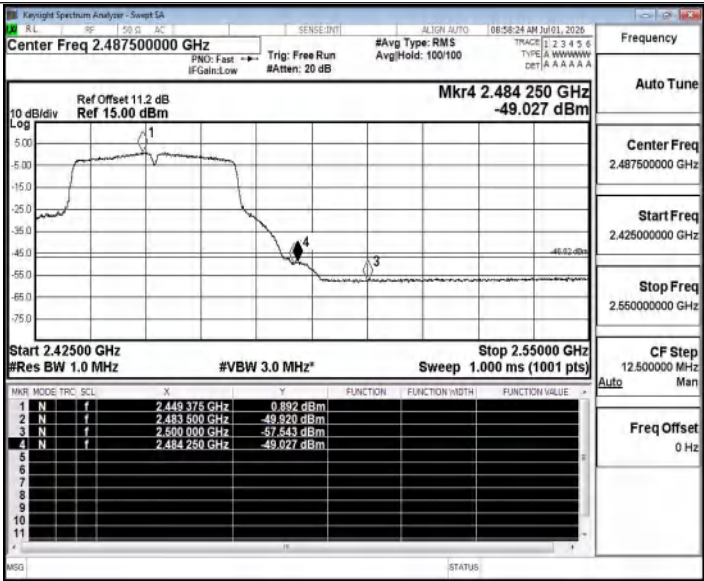
11N40SISO\_Ant1\_Low\_2422\_AV



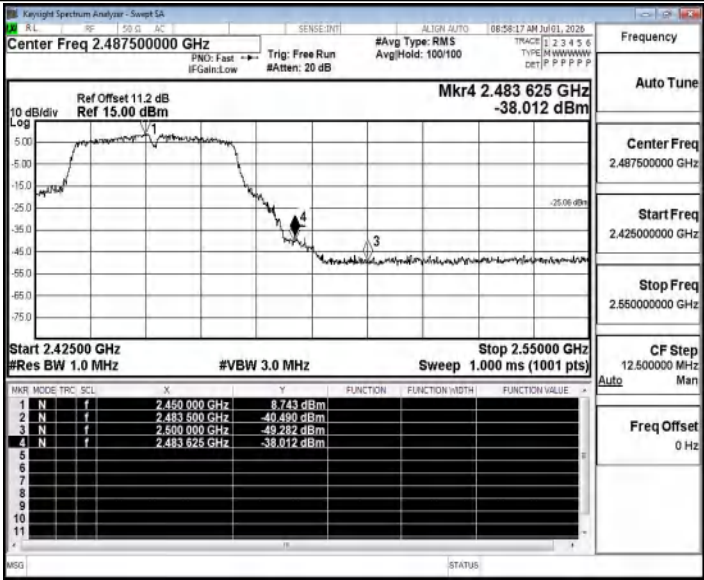
11N40SISO\_Ant1\_Low\_2422\_Peak



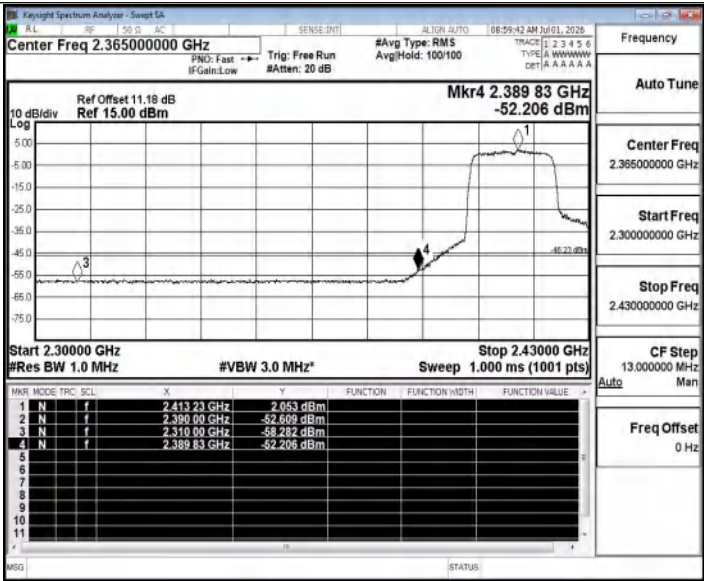
11N40SISO\_Ant1\_High\_2452\_AV



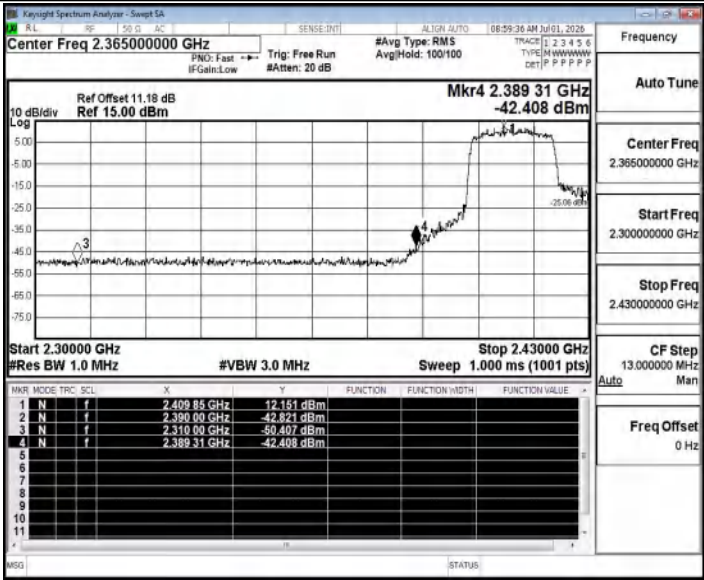
11N40SISO\_Ant1\_High\_2452\_Peak



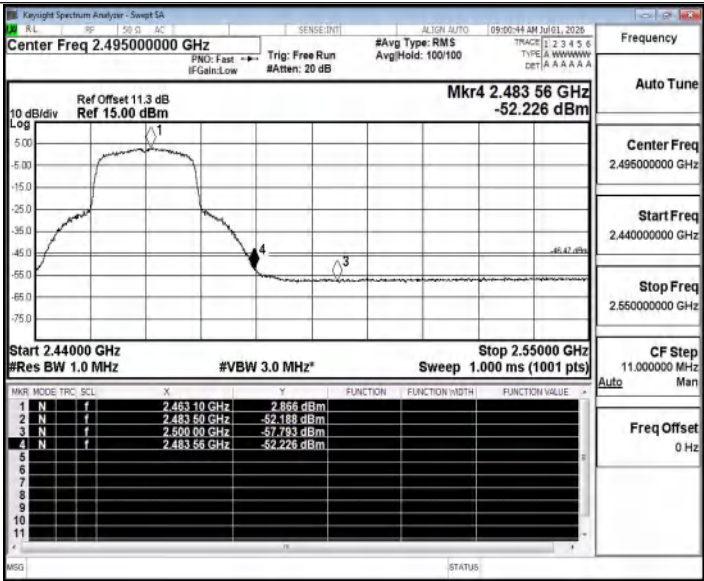
11AX20SISO\_Ant1\_Low\_2412\_AV



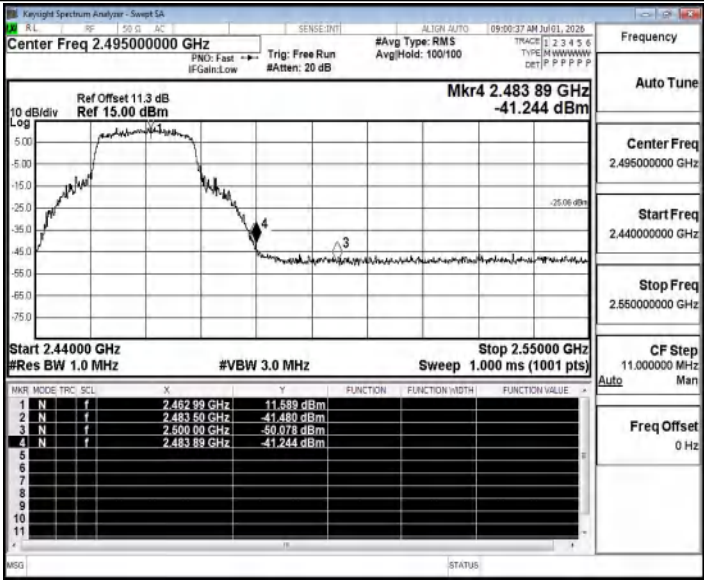
11AX20SISO\_Ant1\_Low\_2412\_Peak



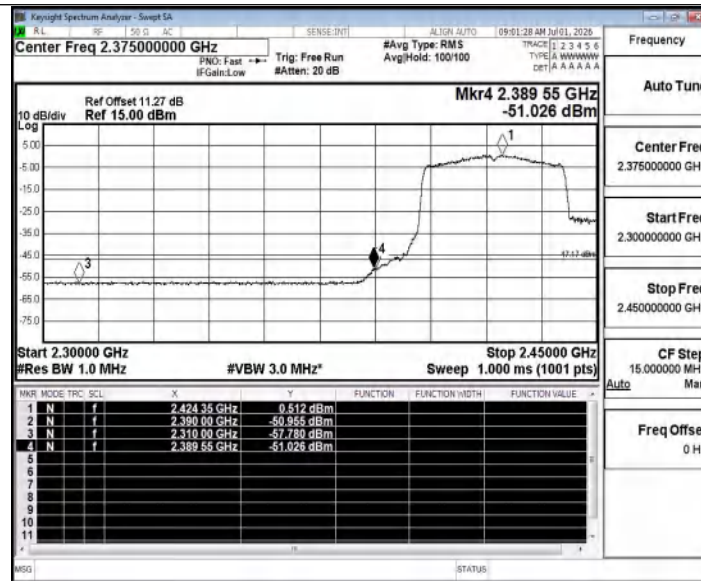
11AX20SISO\_Ant1\_High\_2462\_AV



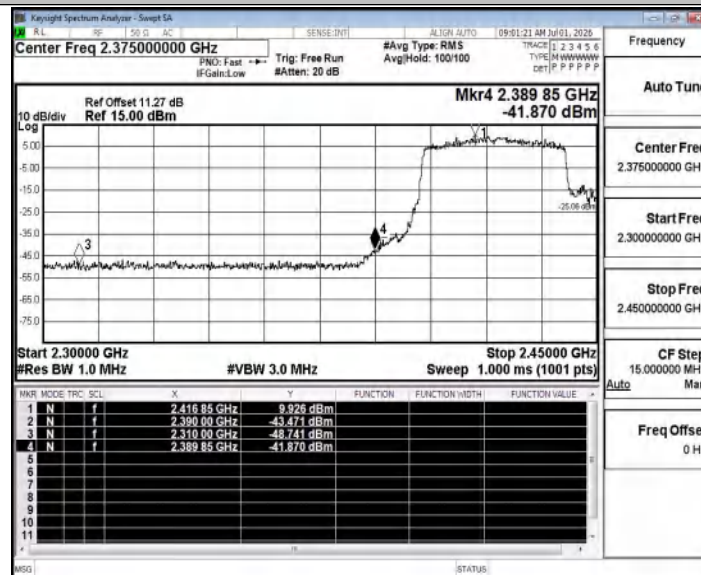
11AX20SISO\_Ant1\_High\_2462\_Peak



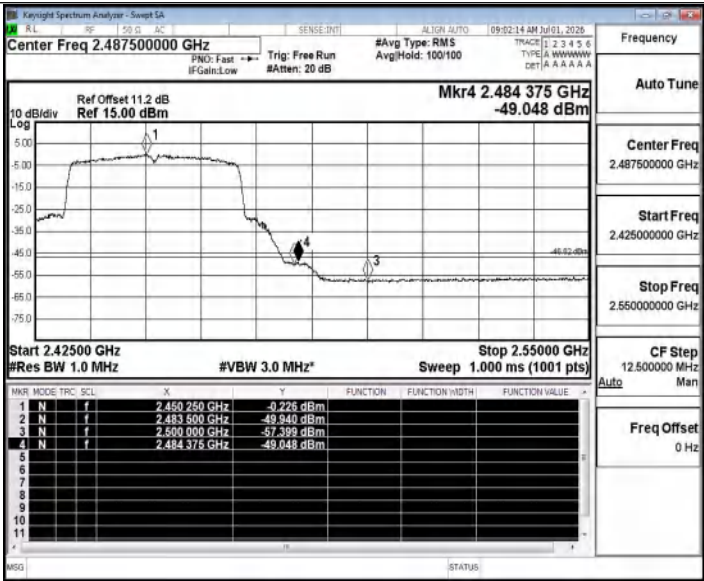
11AX40SISO\_Ant1\_Low\_2422\_AV



11AX40SISO\_Ant1\_Low\_2422\_Peak



11AX40SISO\_Ant1\_High\_2452\_AV



11AX40SISO\_Ant1\_High\_2452\_Peak

