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| <b>Case No. :</b> <u>CTA24053000103</u>                                    |
| <b>Ambient Condition:</b> <u>23</u> °C, <u>48</u> %RH,                     |
| <b>Test Date:</b> <u>2024.6.5</u> <b>Test Engineer:</b> <u>Evan ouyang</u> |

## Appendix C.1: DTS Bandwidth

### Test Result

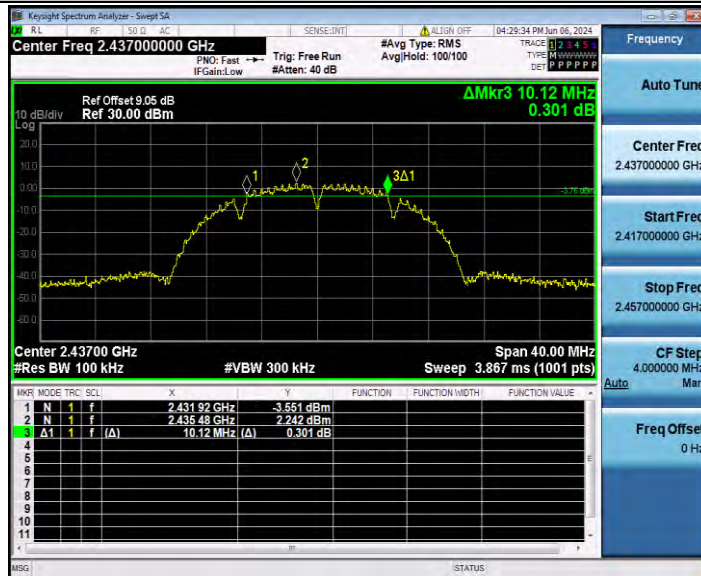
| TestMode  | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|----------|----------|------------|---------|
| 11B       | Ant0    | 2412           | 10.080       | 2406.960 | 2417.040 | 0.5        | PASS    |
|           |         | 2437           | 10.120       | 2431.920 | 2442.040 | 0.5        | PASS    |
|           |         | 2462           | 10.040       | 2456.960 | 2467.000 | 0.5        | PASS    |
| 11G       | Ant0    | 2412           | 16.560       | 2403.720 | 2420.280 | 0.5        | PASS    |
|           |         | 2437           | 16.560       | 2428.720 | 2445.280 | 0.5        | PASS    |
|           |         | 2462           | 16.520       | 2453.720 | 2470.240 | 0.5        | PASS    |
| 11N20SISO | Ant0    | 2412           | 17.720       | 2403.160 | 2420.880 | 0.5        | PASS    |
|           |         | 2437           | 17.760       | 2428.120 | 2445.880 | 0.5        | PASS    |
|           |         | 2462           | 17.720       | 2453.120 | 2470.840 | 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



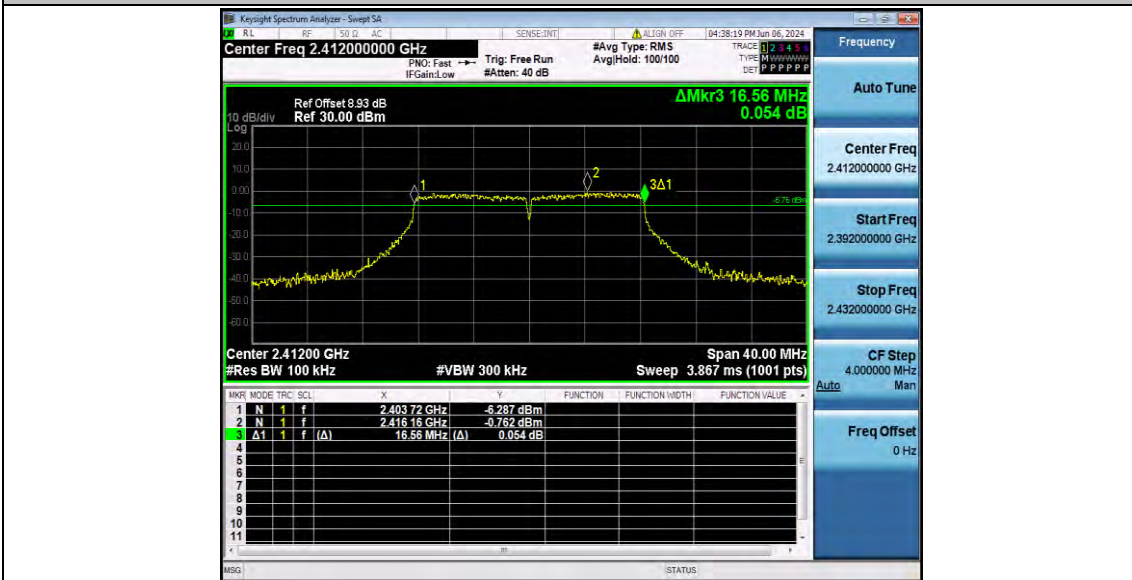
11B\_Ant0\_2437



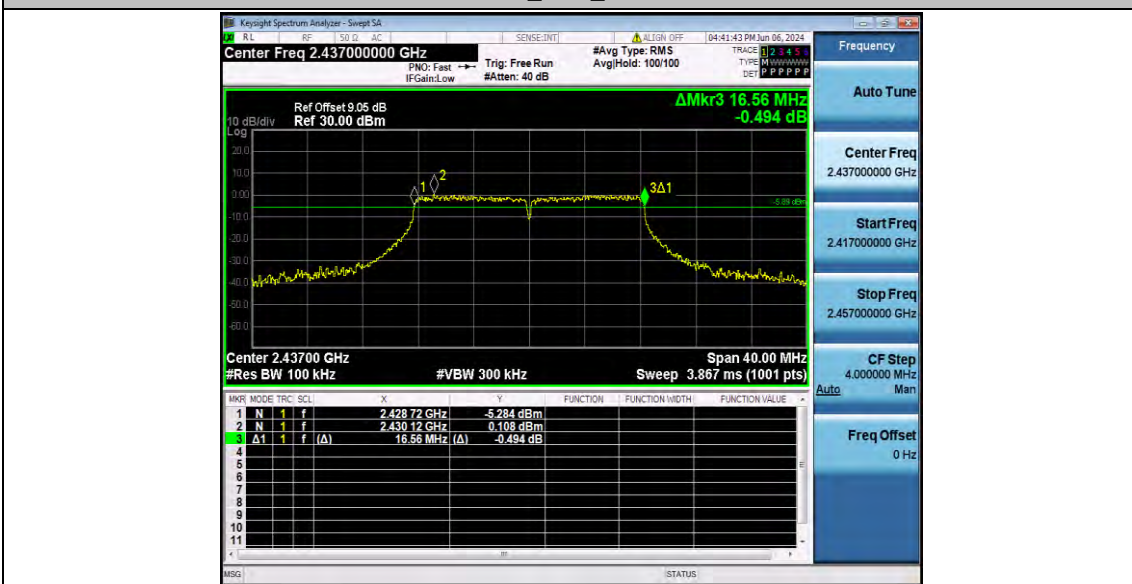
11B\_Ant0\_2462



11G\_Ant0\_2412



11G\_Ant0\_2437



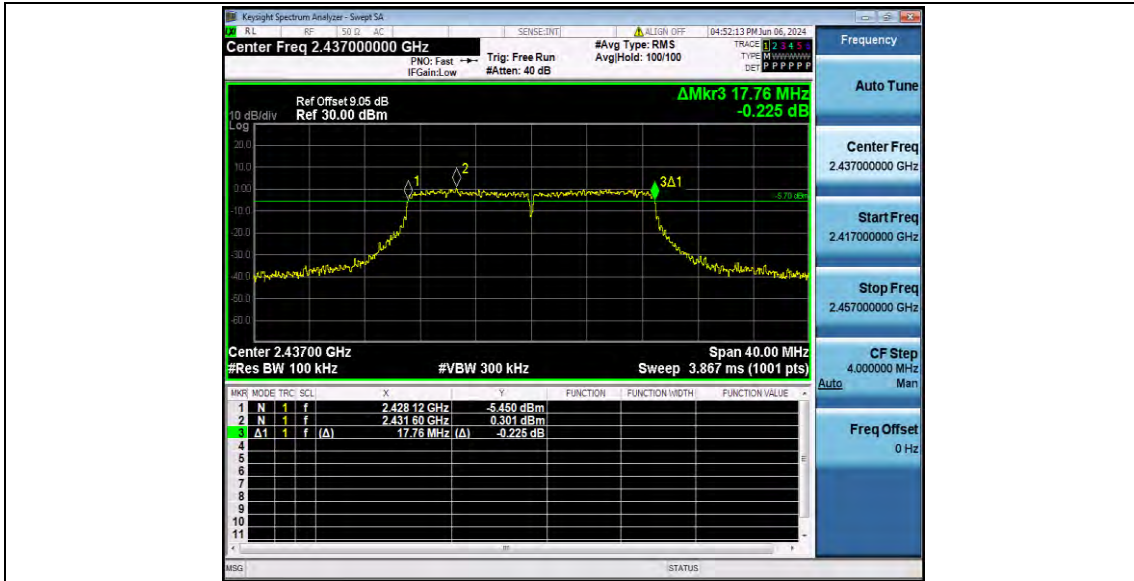
11G\_Ant0\_2462



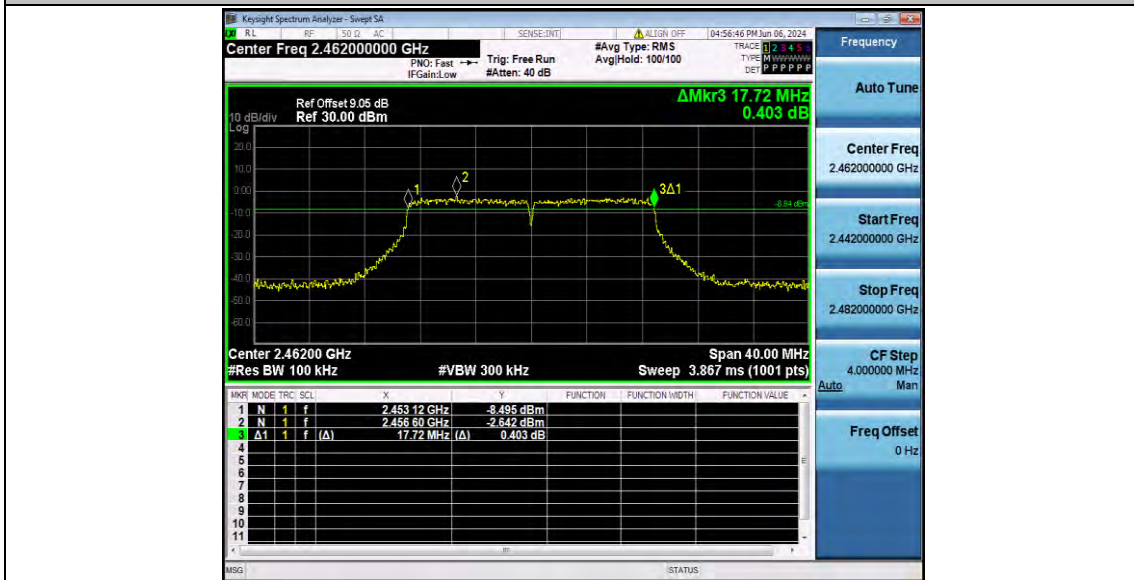
11N20SISO\_Ant0\_2412



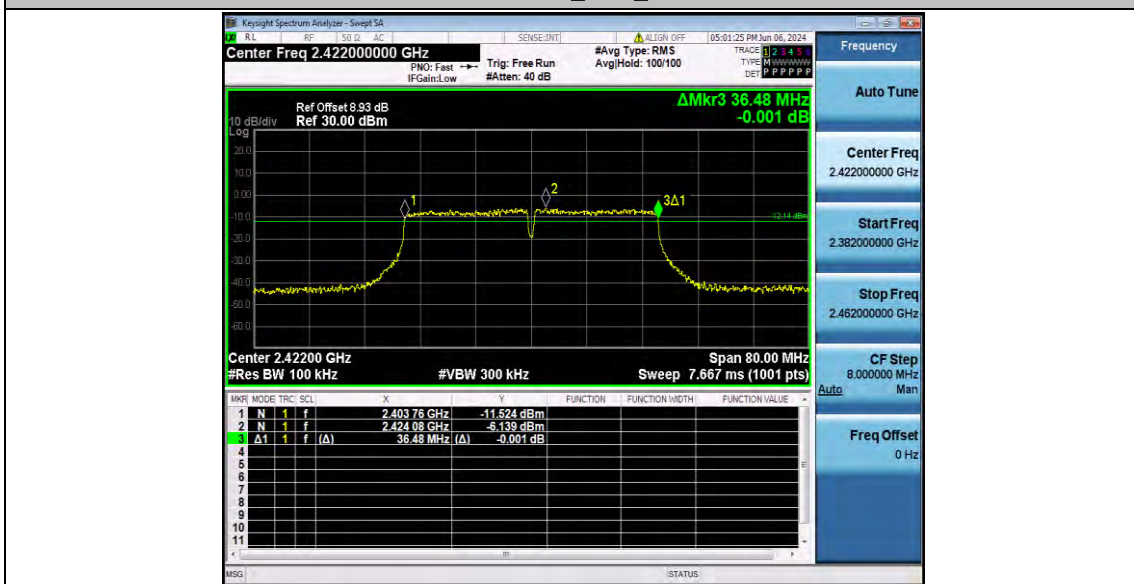
11N20SISO\_Ant0\_2437



11N20SISO\_Ant0\_2462



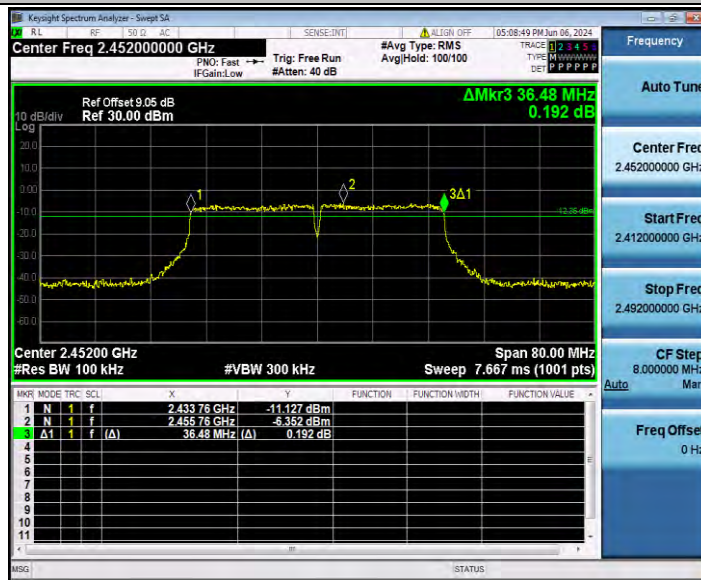
11N40SISO\_Ant0\_2422



11N40SISO\_Ant0\_2437



11N40SISO\_Ant0\_2452

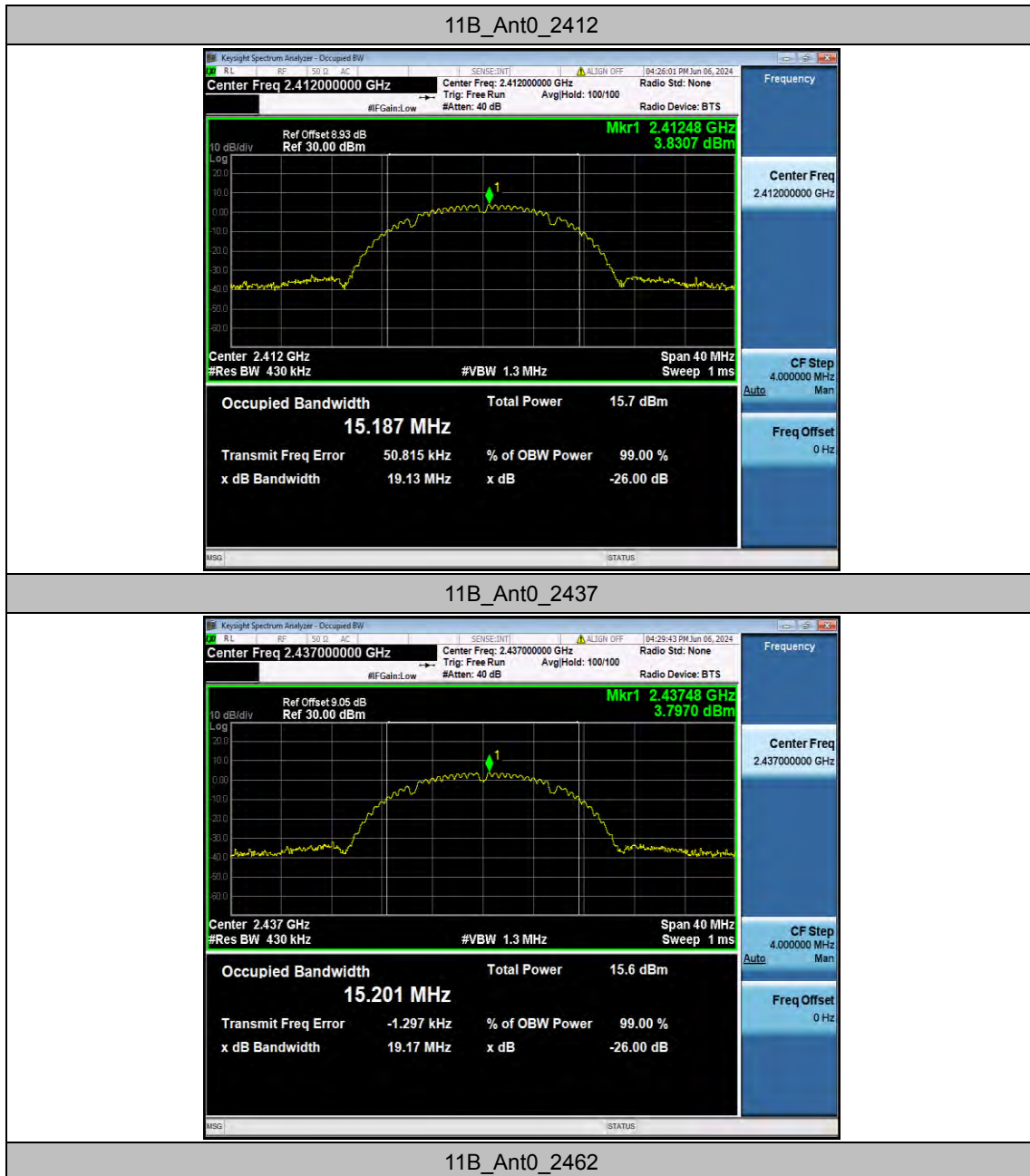


## Appendix C.2: Occupied Channel Bandwidth

### Test Result

| TestMode  | Antenna | Channel Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   |
|-----------|---------|------------------------|-----------|-----------|-----------|
| 11B       | Ant0    | 2412                   | 15.187    | 2404.4573 | 2419.6443 |
|           |         | 2437                   | 15.201    | 2429.3982 | 2444.5992 |
|           |         | 2462                   | 15.145    | 2454.4296 | 2469.5746 |
| 11G       | Ant0    | 2412                   | 17.005    | 2403.5055 | 2420.5105 |
|           |         | 2437                   | 17.121    | 2428.3462 | 2445.4672 |
|           |         | 2462                   | 17.010    | 2453.4506 | 2470.4606 |
| 11N20SISO | Ant0    | 2412                   | 18.004    | 2403.0173 | 2421.0213 |
|           |         | 2437                   | 18.080    | 2427.9302 | 2446.0102 |
|           |         | 2462                   | 17.962    | 2453.0137 | 2470.9757 |
| 11N40SISO | Ant0    | 2422                   | 36.800    | 2403.7318 | 2440.5318 |
|           |         | 2437                   | 36.722    | 2418.6520 | 2455.3740 |
|           |         | 2452                   | 36.763    | 2433.6633 | 2470.4263 |

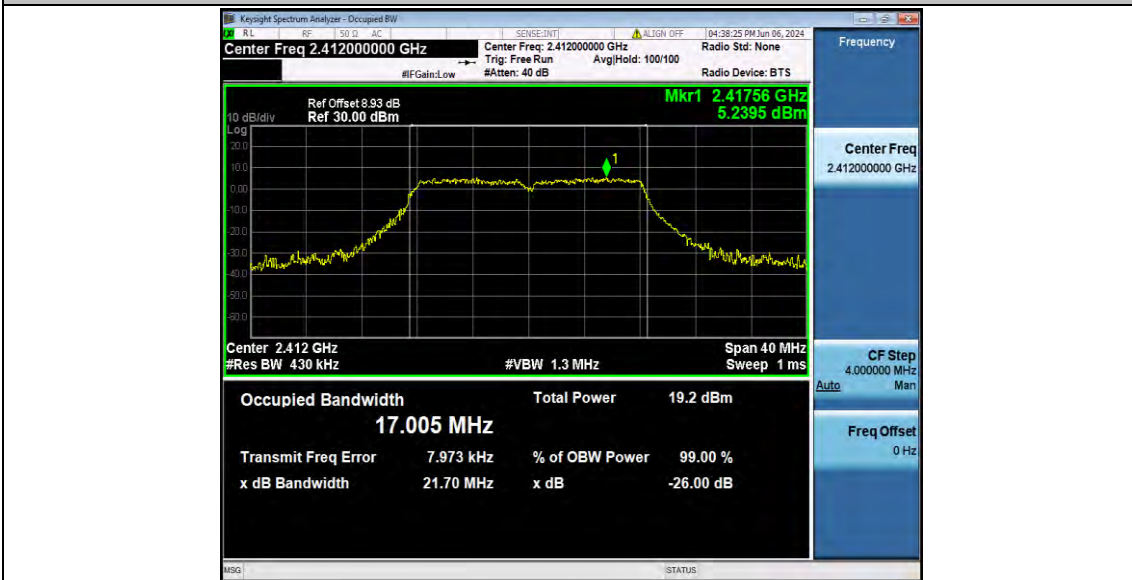
## Test Graphs



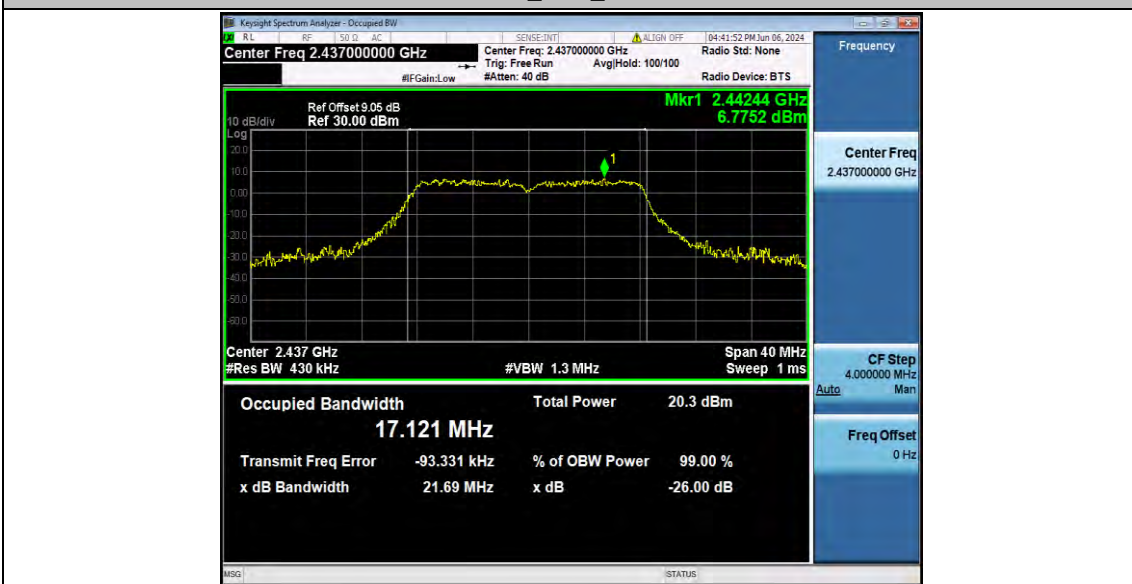




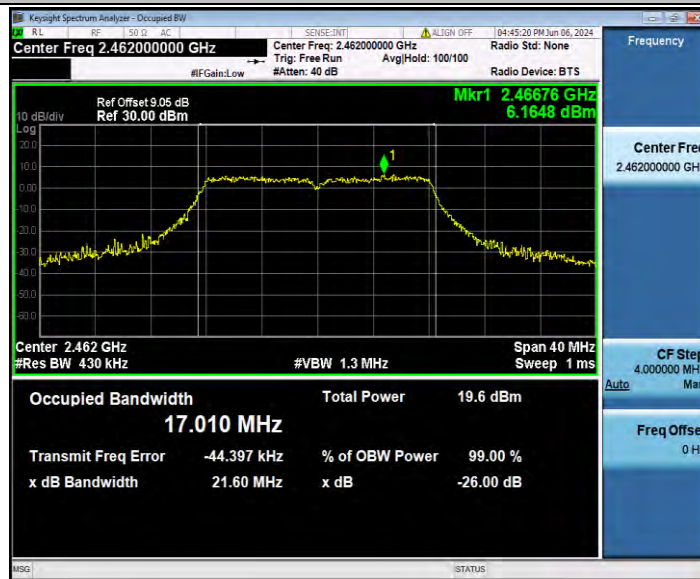
11G\_Ant0\_2412



11G\_Ant0\_2437



11G\_Ant0\_2462



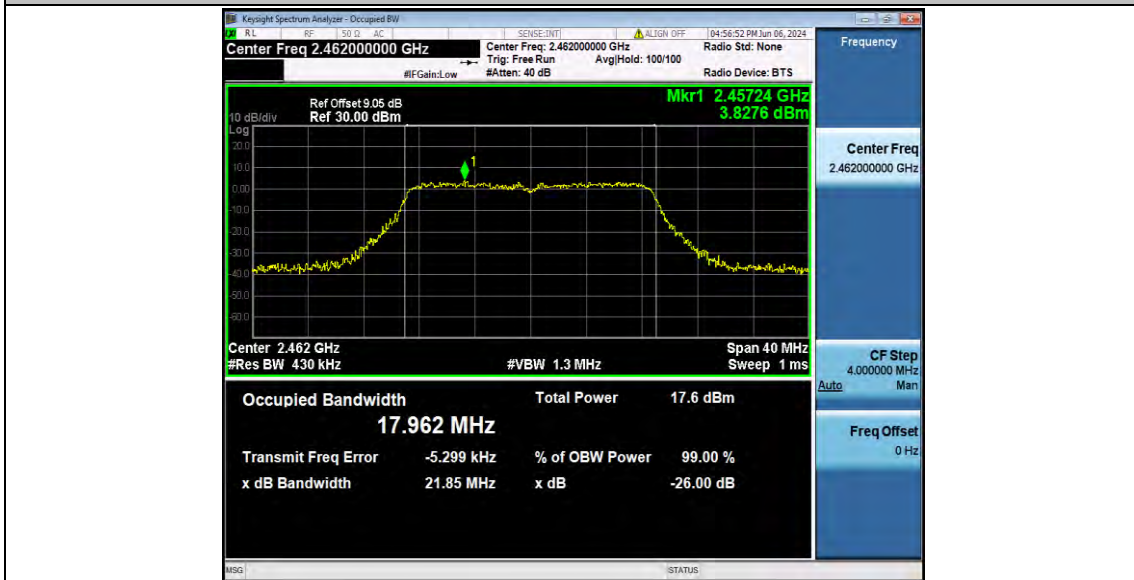
11N20SISO\_Ant0\_2412



11N20SISO\_Ant0\_2437



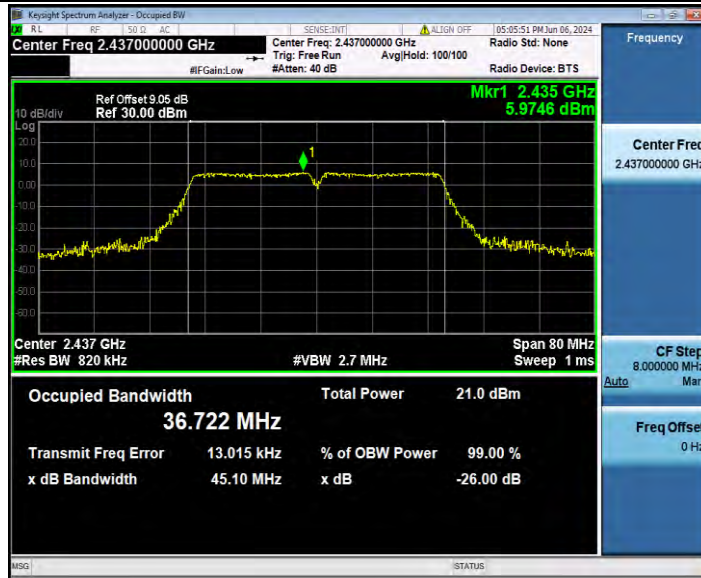
11N20SISO\_Ant0\_2462



11N40SISO\_Ant0\_2422



11N40SISO\_Ant0\_2437



11N40SISO\_Ant0\_2452



## Appendix C.3: Maximum conducted output power

### Test Result -CHP

| Test Mode | Antenna | Frequency[MHz] | Peak power [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|------------------|-------------|---------|
| 11B       | Ant0    | 2412           | 15.79            | ≤30.00      | PASS    |
|           |         | 2437           | 15.73            | ≤30.00      | PASS    |
|           |         | 2462           | 16.21            | ≤30.00      | PASS    |
| 11G       | Ant0    | 2412           | 20.36            | ≤30.00      | PASS    |
|           |         | 2437           | 21.36            | ≤30.00      | PASS    |
|           |         | 2462           | 20.72            | ≤30.00      | PASS    |
| 11N20SISO | Ant0    | 2412           | 18.92            | ≤30.00      | PASS    |
|           |         | 2437           | 21.64            | ≤30.00      | PASS    |
|           |         | 2462           | 18.79            | ≤30.00      | PASS    |
| 11N40SISO | Ant0    | 2422           | 18.21            | ≤30.00      | PASS    |
|           |         | 2437           | 21.32            | ≤30.00      | PASS    |
|           |         | 2452           | 18.29            | ≤30.00      | PASS    |

## Appendix C.4: Maximum power spectral density

### Test Result

| TestMode  | Antenna | Frequency[MHz] | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|----------------|----------------------|-----------------|---------|
| 11B       | Ant0    | 2412           | -17.50               | ≤8.00           | PASS    |
|           |         | 2437           | -17.67               | ≤8.00           | PASS    |
|           |         | 2462           | -17.12               | ≤8.00           | PASS    |
| 11G       | Ant0    | 2412           | -14.72               | ≤8.00           | PASS    |
|           |         | 2437           | -14.09               | ≤8.00           | PASS    |
|           |         | 2462           | -14.86               | ≤8.00           | PASS    |
| 11N20SISO | Ant0    | 2412           | -15.44               | ≤8.00           | PASS    |
|           |         | 2437           | -13.37               | ≤8.00           | PASS    |
|           |         | 2462           | -16.78               | ≤8.00           | PASS    |
| 11N40SISO | Ant0    | 2422           | -18.21               | ≤8.00           | PASS    |
|           |         | 2437           | -14.72               | ≤8.00           | PASS    |
|           |         | 2452           | -18.31               | ≤8.00           | PASS    |

Note:

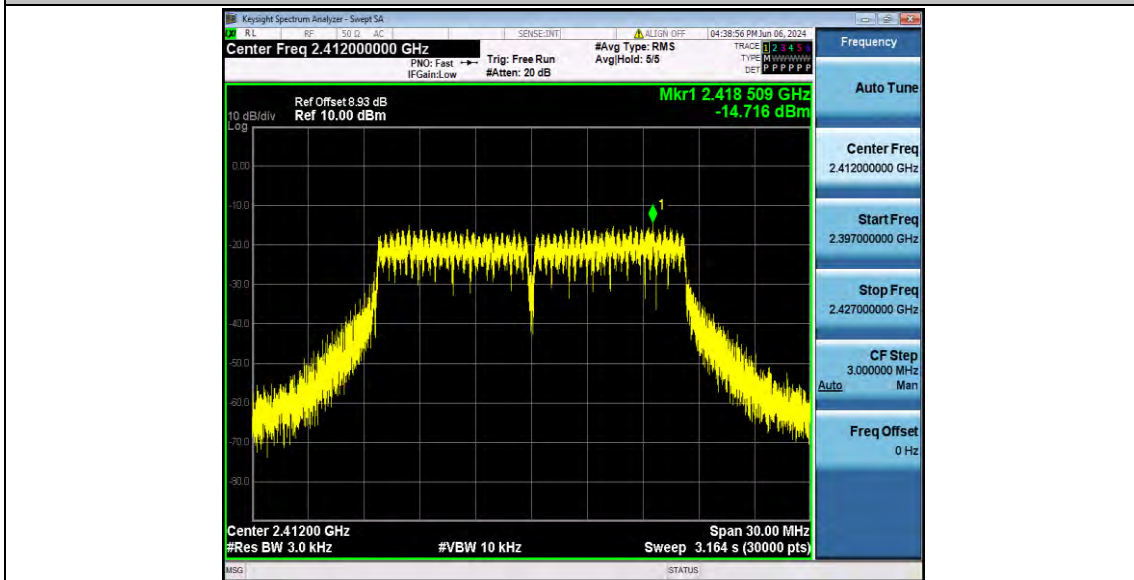
1. The Duty Cycle Factor and RBW Factor is compensated in the graph.

## Test Graphs

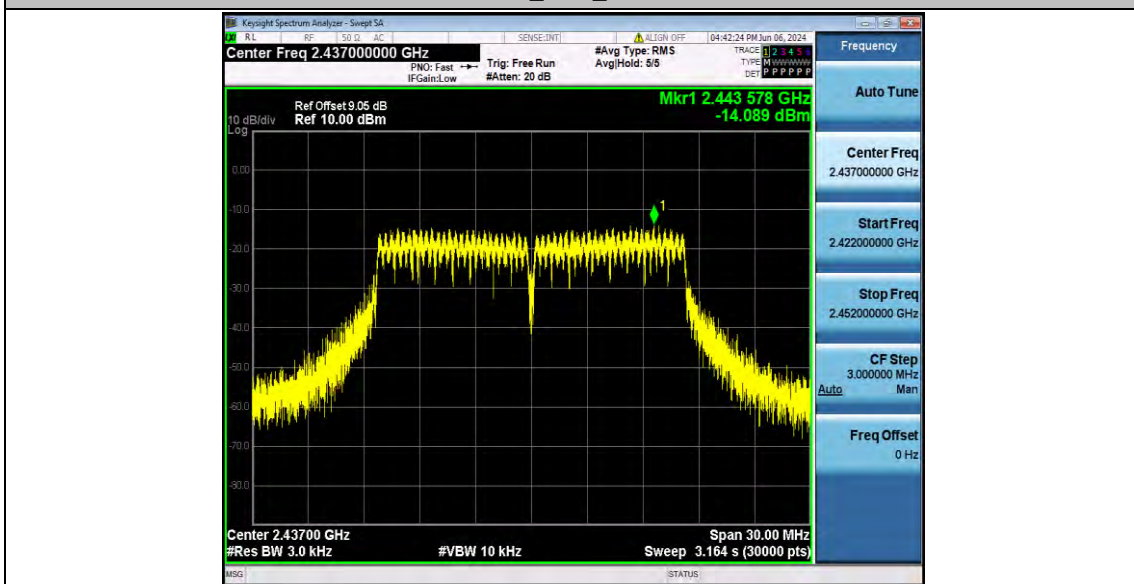




11G\_Ant0\_2412

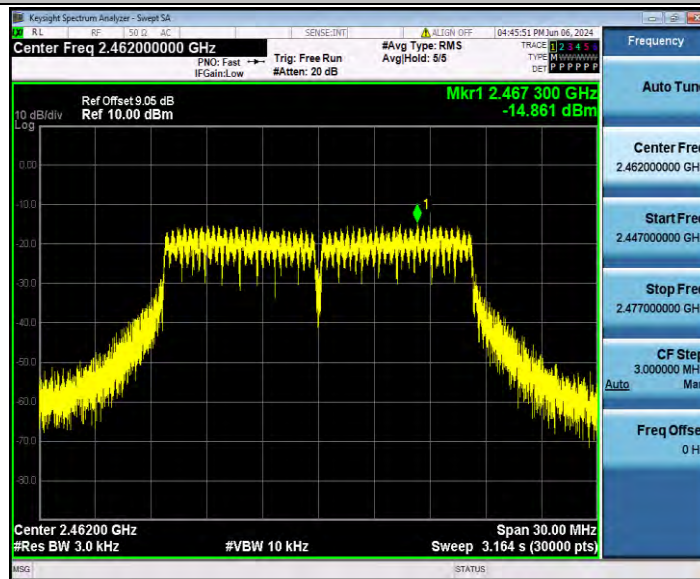


11G\_Ant0\_2437

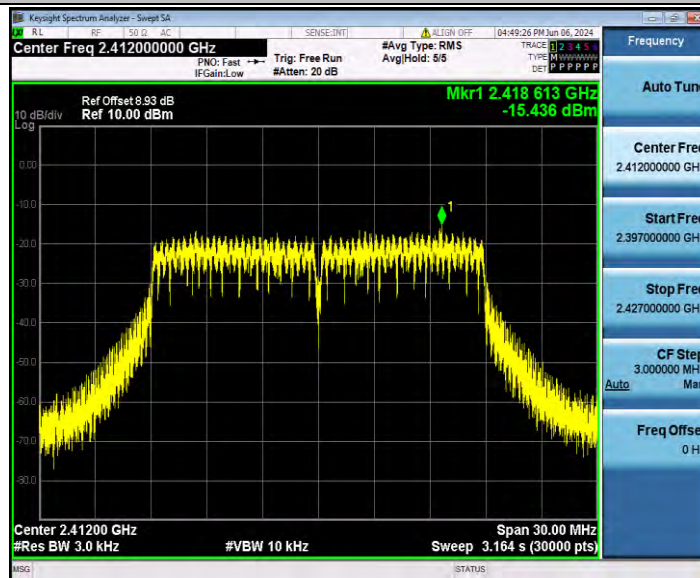




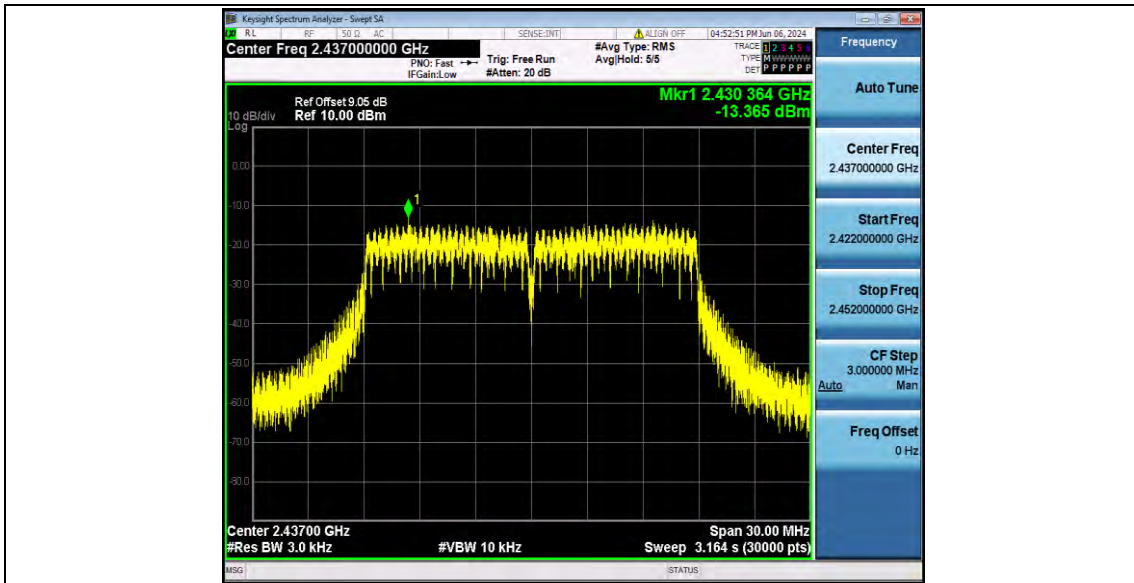
11G\_Ant0\_2462



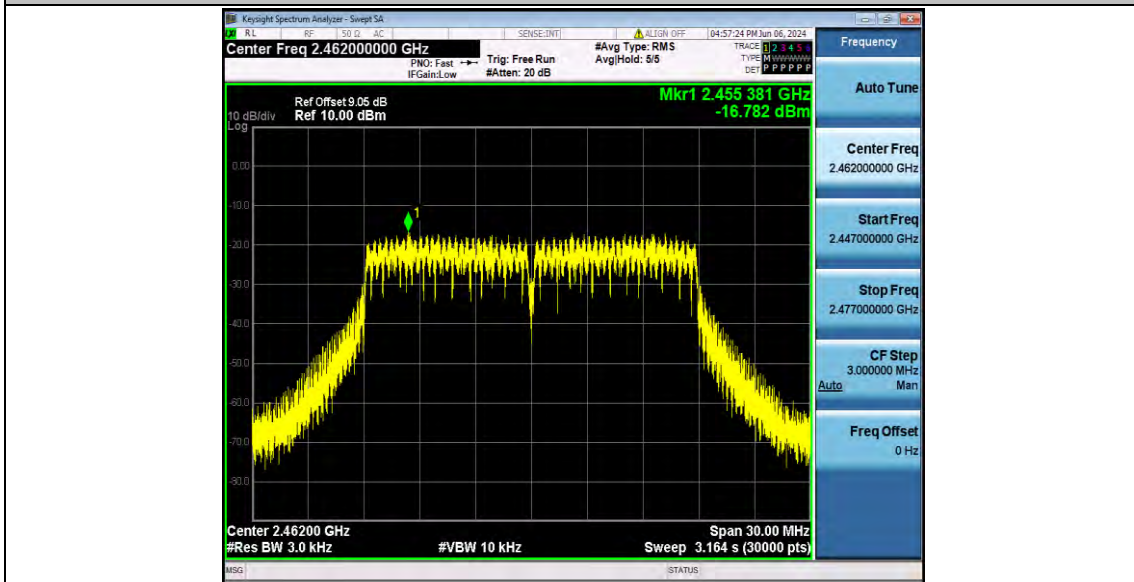
11N20SISO\_Ant0\_2412



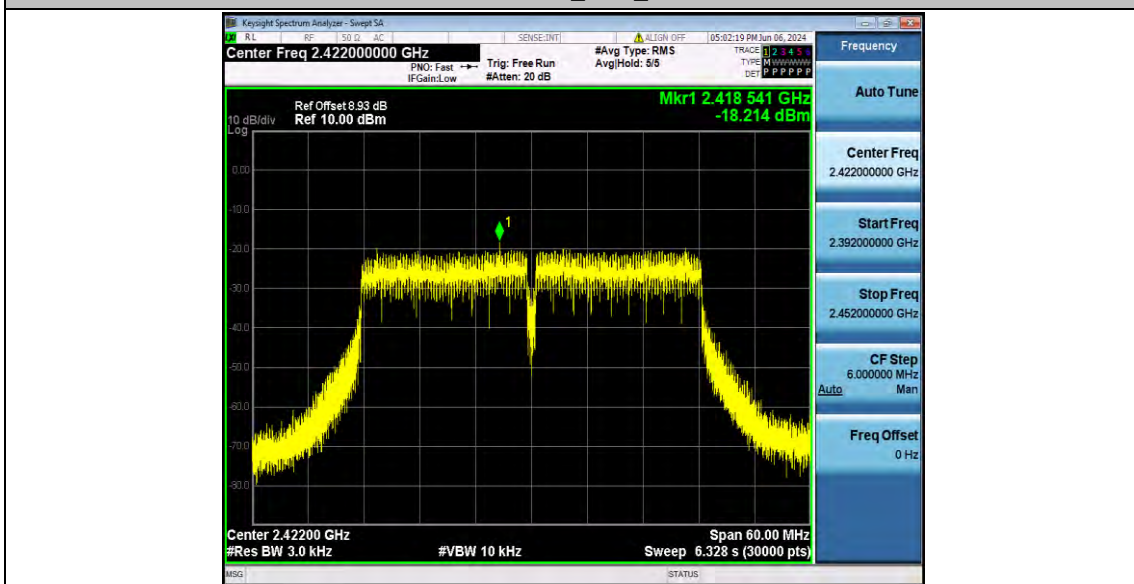
11N20SISO\_Ant0\_2437



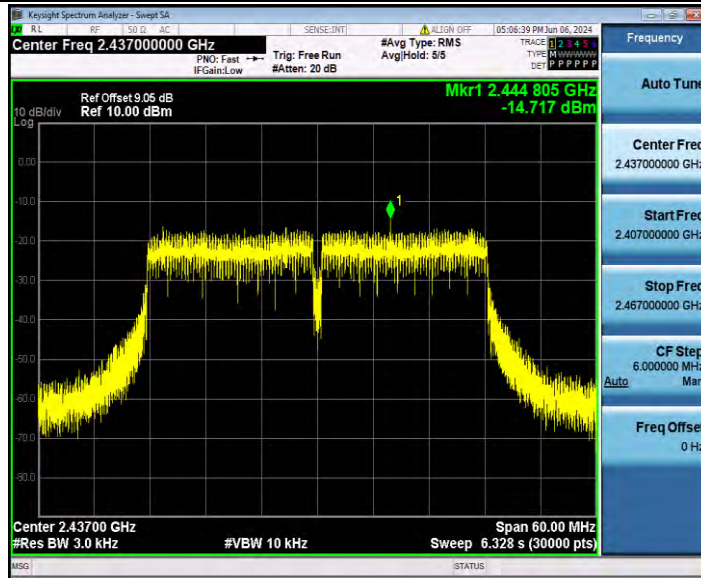
11N20SISO\_Ant0\_2462



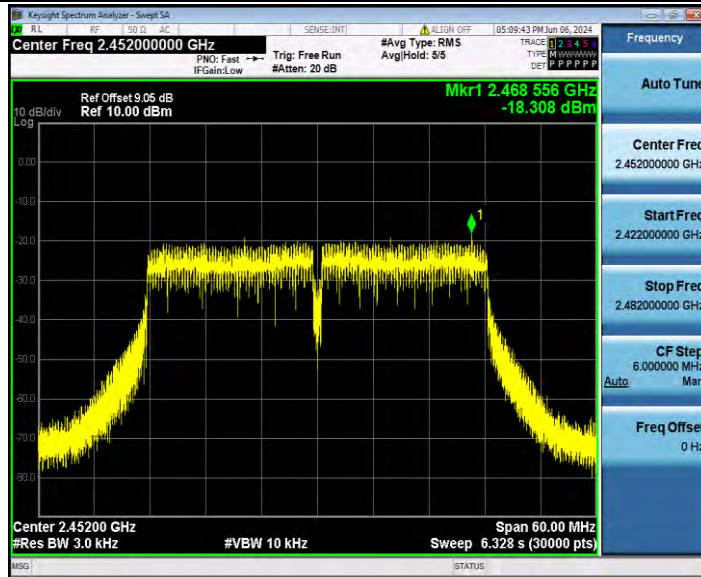
11N40SISO\_Ant0\_2422



11N40SISO\_Ant0\_2437



11N40SISO\_Ant0\_2452

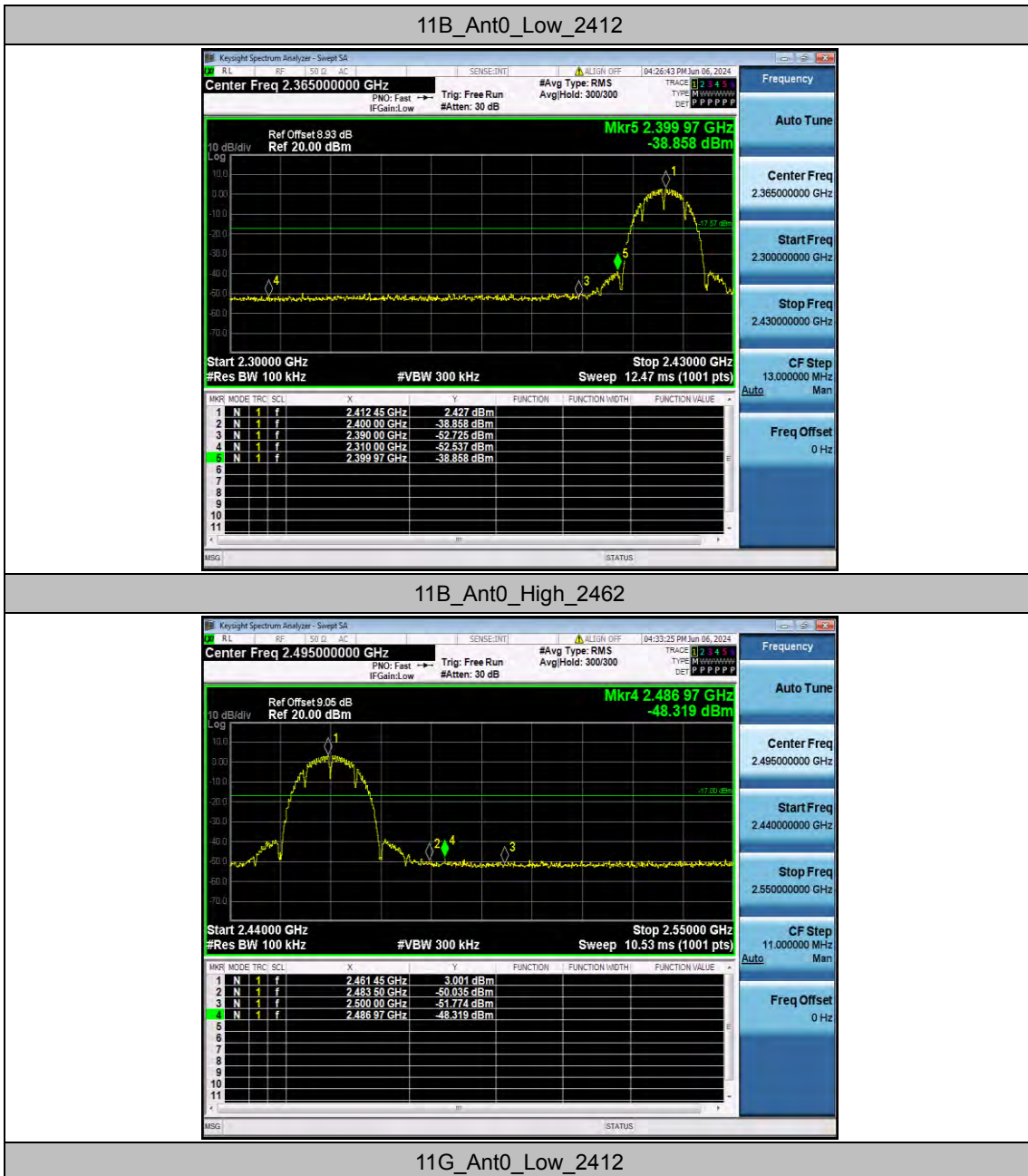


## Appendix C.5: Band edge measurements

### Test Result

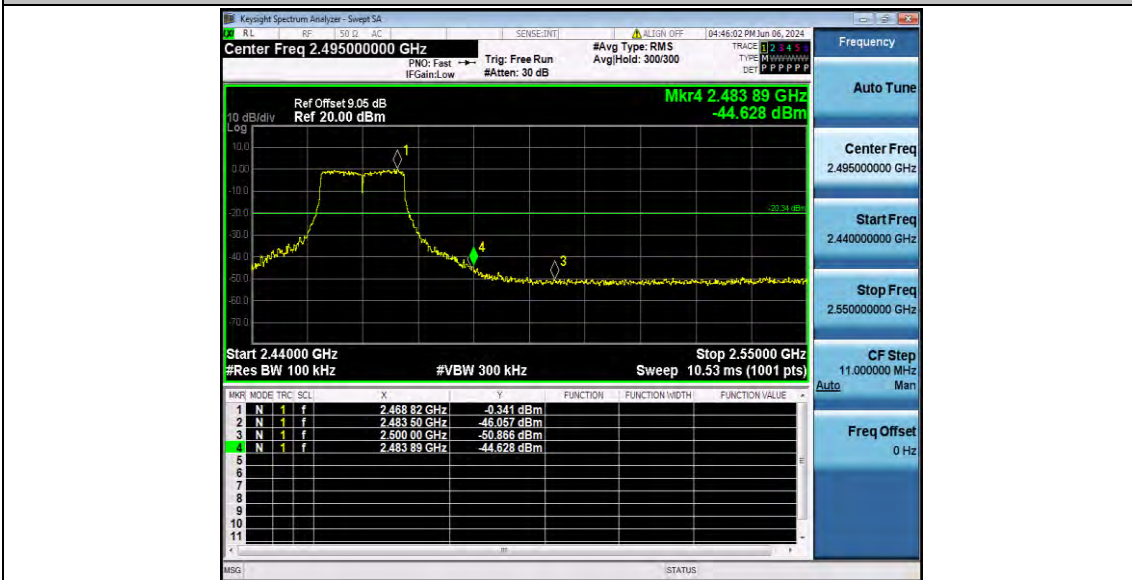
| TestMode  | Antenna | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|-----------|---------|--------|----------------|---------------|-------------|---------------|---------|
| 11B       | Ant0    | Low    | 2412           | 2.43          | -38.86      | $\leq -17.57$ | PASS    |
|           |         | High   | 2462           | 3.00          | -48.32      | $\leq -17$    | PASS    |
| 11G       | Ant0    | Low    | 2412           | -0.74         | -34.2       | $\leq -20.74$ | PASS    |
|           |         | High   | 2462           | -0.34         | -44.63      | $\leq -20.34$ | PASS    |
| 11N20SISO | Ant0    | Low    | 2412           | -2.61         | -37.91      | $\leq -22.61$ | PASS    |
|           |         | High   | 2462           | -2.42         | -47.87      | $\leq -22.42$ | PASS    |
| 11N40SISO | Ant0    | Low    | 2422           | -5.84         | -38.6       | $\leq -25.84$ | PASS    |
|           |         | High   | 2452           | -5.81         | -44.6       | $\leq -25.81$ | PASS    |

## Test Graphs





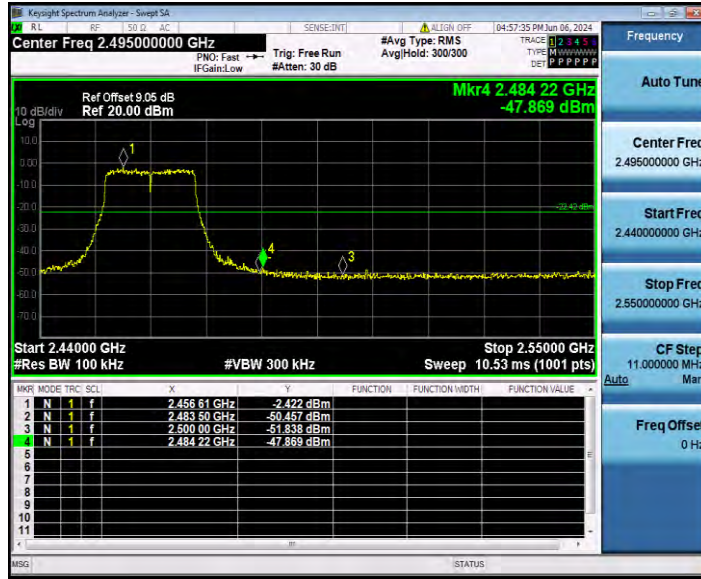
11G\_Ant0\_High\_2462



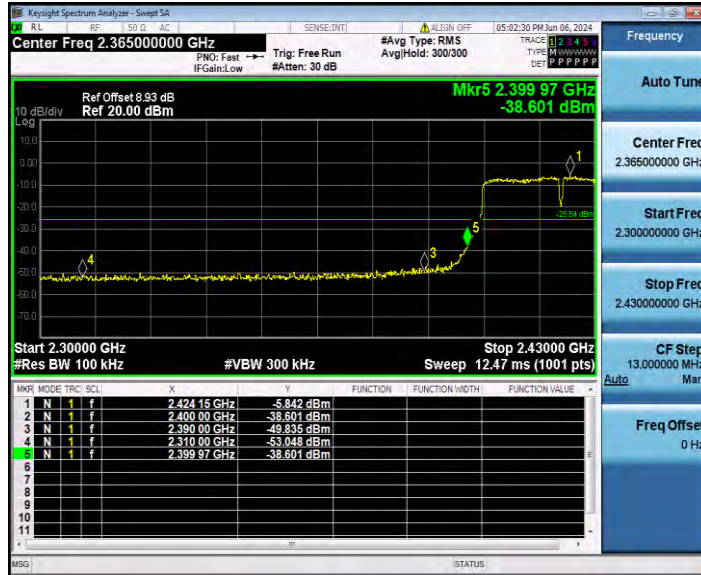
11N20SISO\_Ant0\_Low\_2412



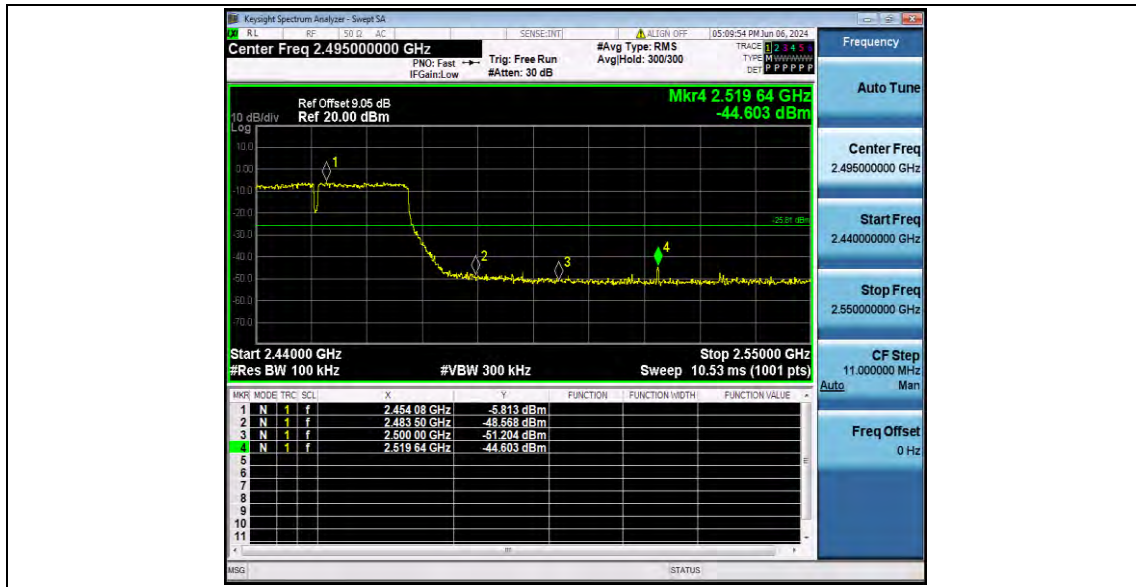
11N20SISO\_Ant0\_High\_2462



11N40SISO\_Ant0\_Low\_2422



11N40SISO\_Ant0\_High\_2452



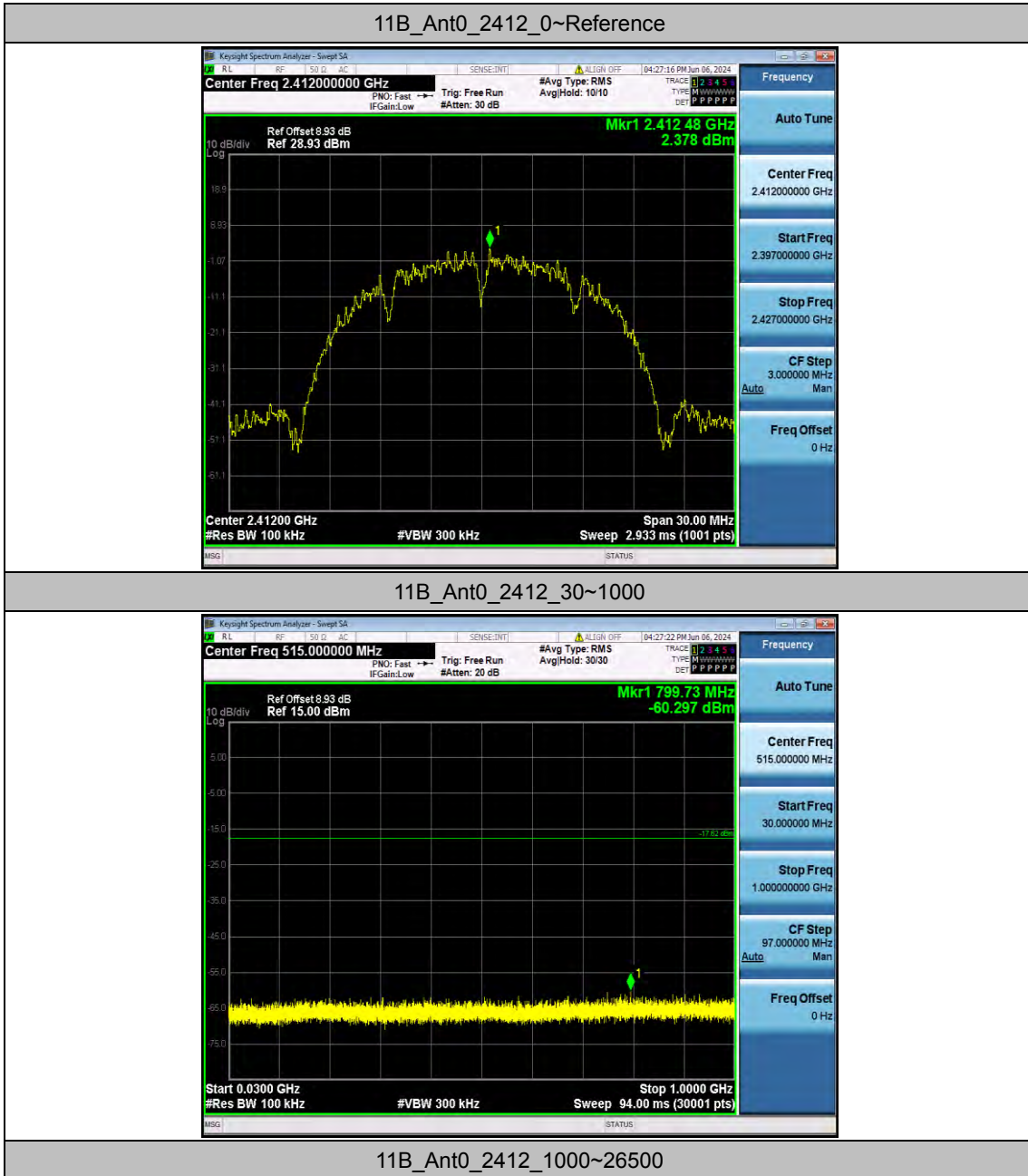


## Appendix C.6: Conducted Spurious Emission

### Test Result

| TestMode  | Antenna | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm]   | Verdict |
|-----------|---------|----------------|-----------------|----------------|--------------|---------------|---------|
| 11B       | Ant0    | 2412           | Reference       | 2.38           | 2.38         | ---           | PASS    |
|           |         |                | 30~1000         | 2.38           | -60.3        | $\leq -17.62$ | PASS    |
|           |         |                | 1000~26500      | 2.38           | -47.46       | $\leq -17.62$ | PASS    |
|           |         | 2437           | Reference       | 2.16           | 2.16         | ---           | PASS    |
|           |         |                | 30~1000         | 2.16           | -60.16       | $\leq -17.84$ | PASS    |
|           |         |                | 1000~26500      | 2.16           | -47.79       | $\leq -17.84$ | PASS    |
|           |         | 2462           | Reference       | 2.68           | 2.68         | ---           | PASS    |
|           |         |                | 30~1000         | 2.68           | -60.62       | $\leq -17.32$ | PASS    |
|           |         |                | 1000~26500      | 2.68           | -48.17       | $\leq -17.32$ | PASS    |
| 11G       | Ant0    | 2412           | Reference       | -1.05          | -1.05        | ---           | PASS    |
|           |         |                | 30~1000         | -1.05          | -60.7        | $\leq -21.05$ | PASS    |
|           |         |                | 1000~26500      | -1.05          | -47.57       | $\leq -21.05$ | PASS    |
|           |         | 2437           | Reference       | -0.17          | -0.17        | ---           | PASS    |
|           |         |                | 30~1000         | -0.17          | -60.52       | $\leq -20.17$ | PASS    |
|           |         |                | 1000~26500      | -0.17          | -46.9        | $\leq -20.17$ | PASS    |
|           |         | 2462           | Reference       | -0.95          | -0.95        | ---           | PASS    |
|           |         |                | 30~1000         | -0.95          | -60.1        | $\leq -20.95$ | PASS    |
|           |         |                | 1000~26500      | -0.95          | -47.22       | $\leq -20.95$ | PASS    |
| 11N20SISO | Ant0    | 2412           | Reference       | -3.38          | -3.38        | ---           | PASS    |
|           |         |                | 30~1000         | -3.38          | -60.62       | $\leq -23.38$ | PASS    |
|           |         |                | 1000~26500      | -3.38          | -48          | $\leq -23.38$ | PASS    |
|           |         | 2437           | Reference       | -0.83          | -0.83        | ---           | PASS    |
|           |         |                | 30~1000         | -0.83          | -60.8        | $\leq -20.83$ | PASS    |
|           |         |                | 1000~26500      | -0.83          | -47.43       | $\leq -20.83$ | PASS    |
|           |         | 2462           | Reference       | -3.19          | -3.19        | ---           | PASS    |
|           |         |                | 30~1000         | -3.19          | -59.91       | $\leq -23.19$ | PASS    |
|           |         |                | 1000~26500      | -3.19          | -47.89       | $\leq -23.19$ | PASS    |
| 11N40SISO | Ant0    | 2422           | Reference       | -6.45          | -6.45        | ---           | PASS    |
|           |         |                | 30~1000         | -6.45          | -60.54       | $\leq -26.45$ | PASS    |
|           |         |                | 1000~26500      | -6.45          | -47.94       | $\leq -26.45$ | PASS    |
|           |         | 2437           | Reference       | -3.53          | -3.53        | ---           | PASS    |
|           |         |                | 30~1000         | -3.53          | -59.57       | $\leq -23.53$ | PASS    |
|           |         |                | 1000~26500      | -3.53          | -47.37       | $\leq -23.53$ | PASS    |
|           |         | 2452           | Reference       | -6.47          | -6.47        | ---           | PASS    |
|           |         |                | 30~1000         | -6.47          | -59.41       | $\leq -26.47$ | PASS    |
|           |         |                | 1000~26500      | -6.47          | -46.7        | $\leq -26.47$ | PASS    |

## Test Graphs

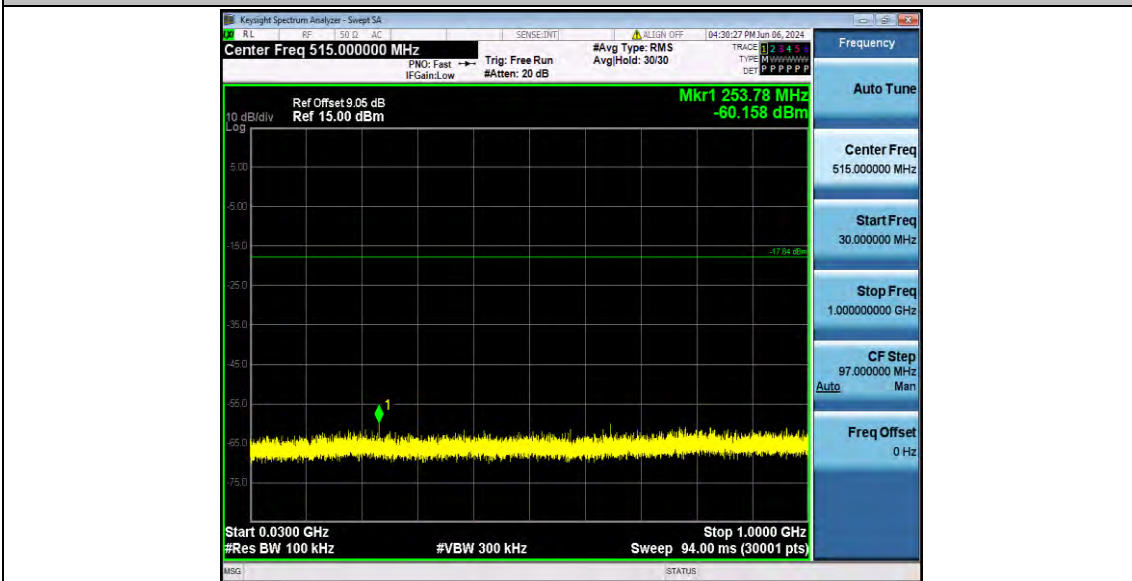




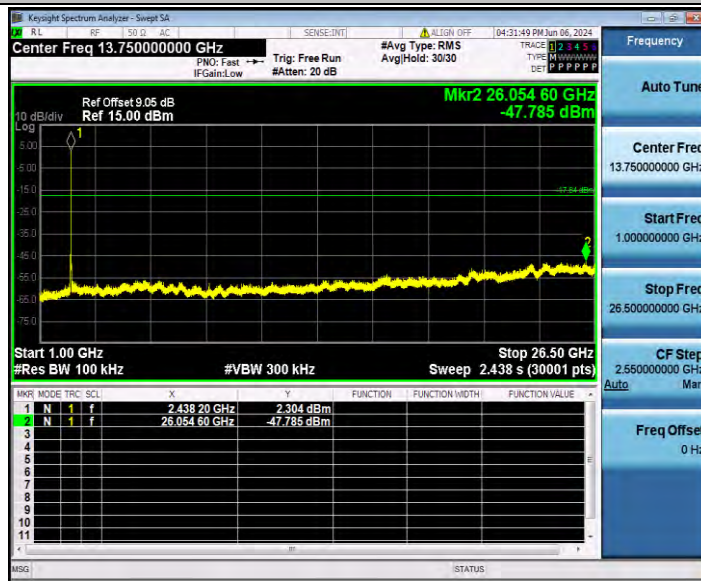
11B\_Ant0\_2437\_0~Reference



11B\_Ant0\_2437\_30~1000



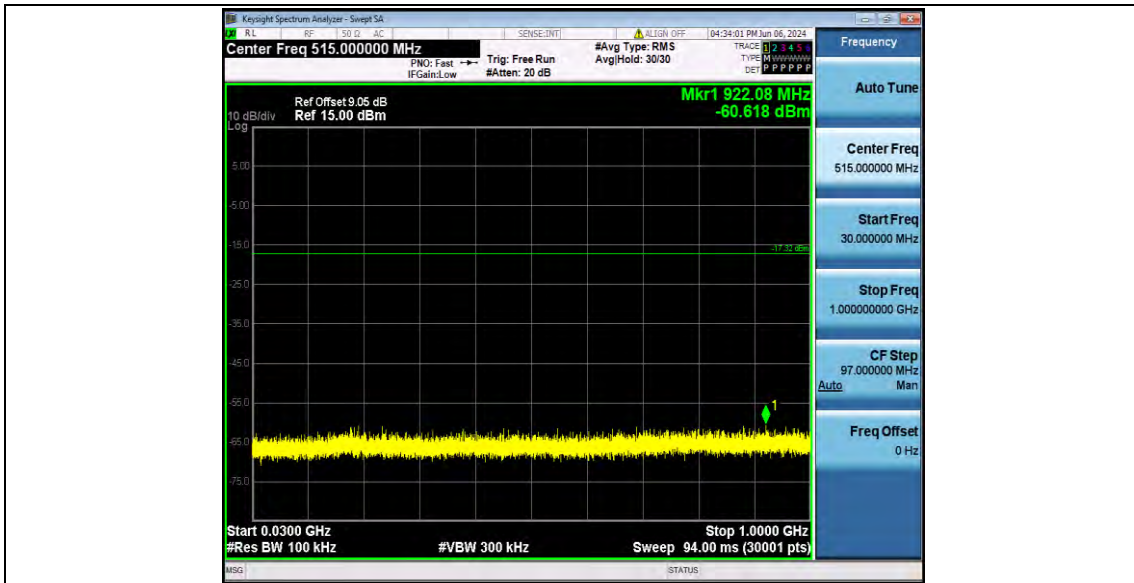
11B\_Ant0\_2437\_1000~26500



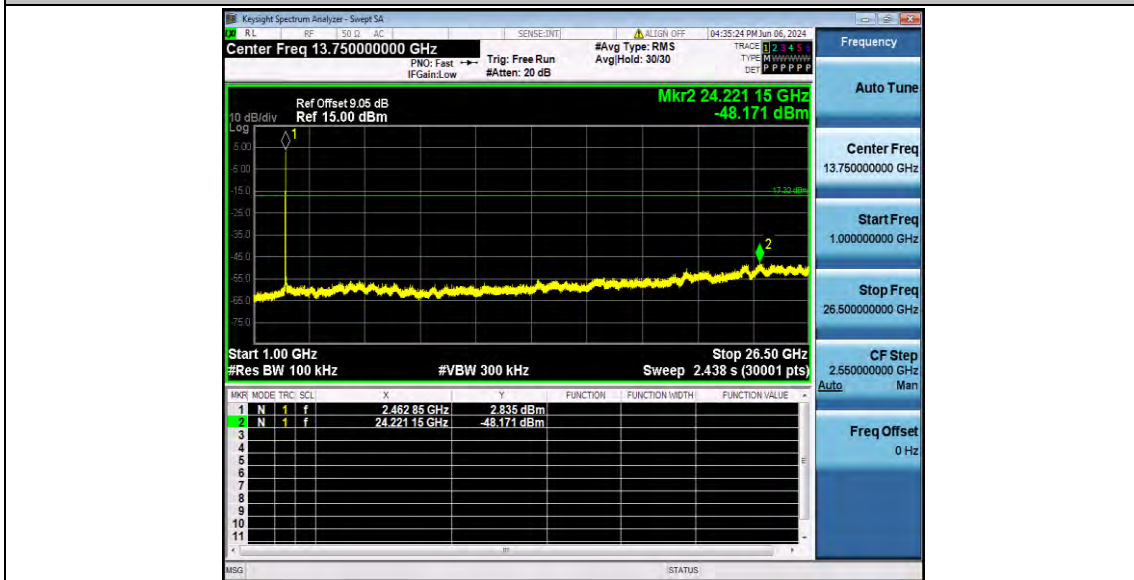
11B\_Ant0\_2462\_0~Reference



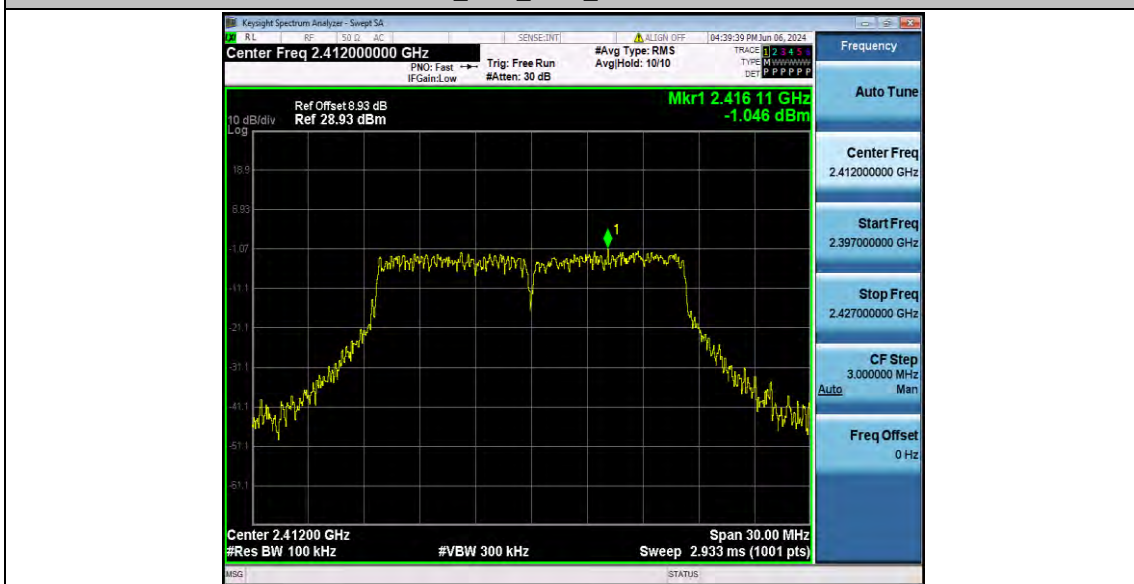
11B\_Ant0\_2462\_30~1000



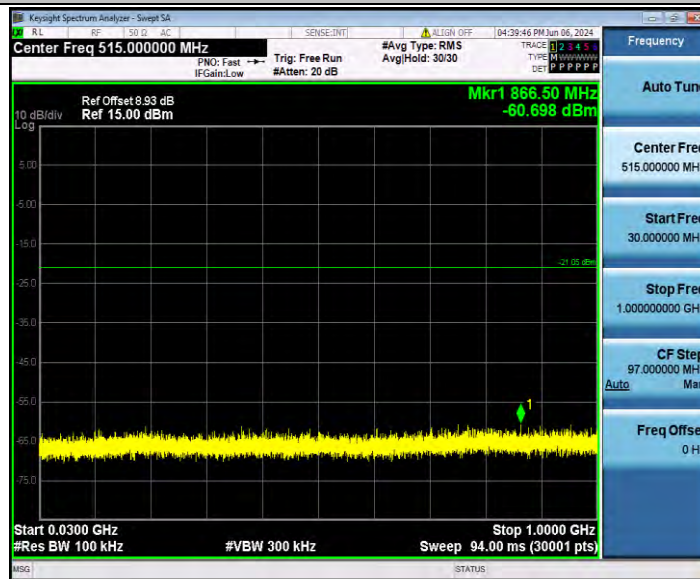
11B\_Ant0\_2462\_1000~26500



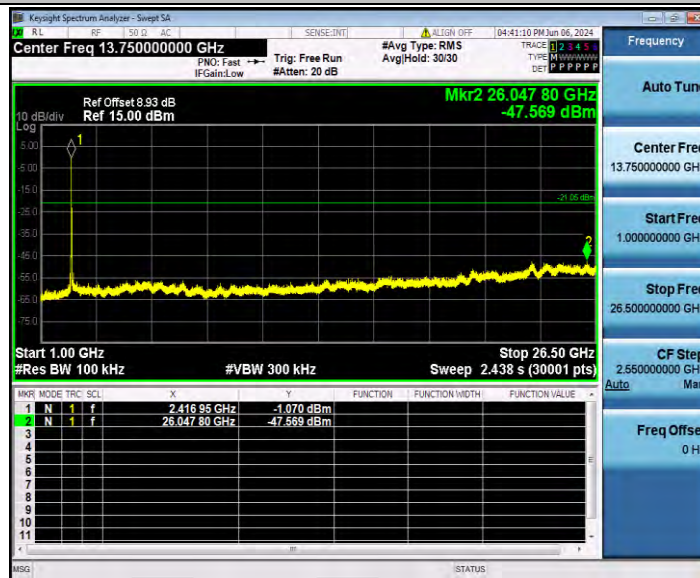
11G\_Ant0\_2412\_0~Reference



11G\_Ant0\_2412\_30~1000



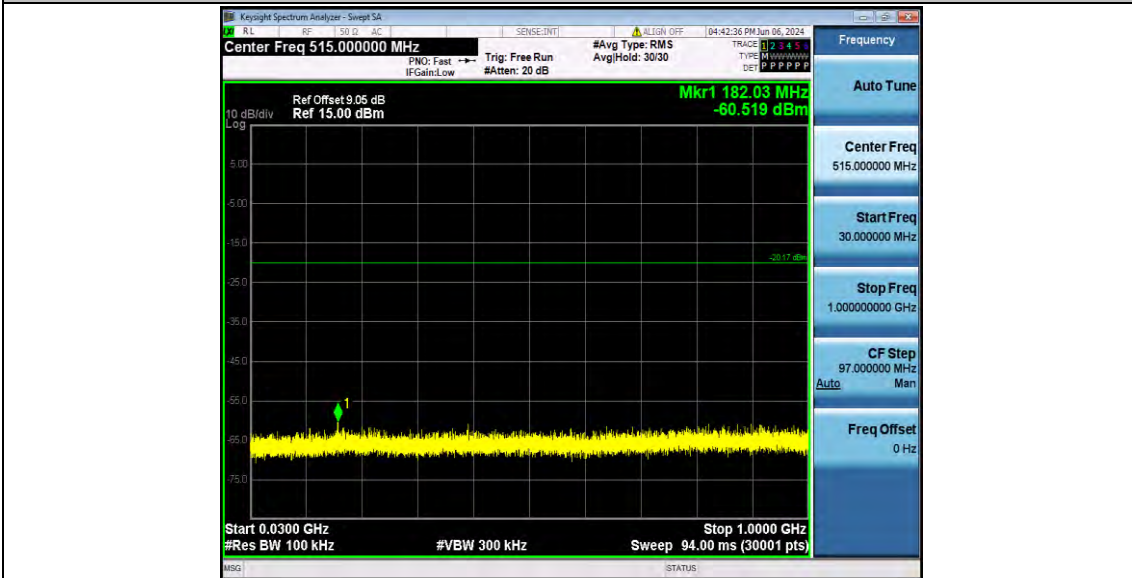
11G\_Ant0\_2412\_1000~26500



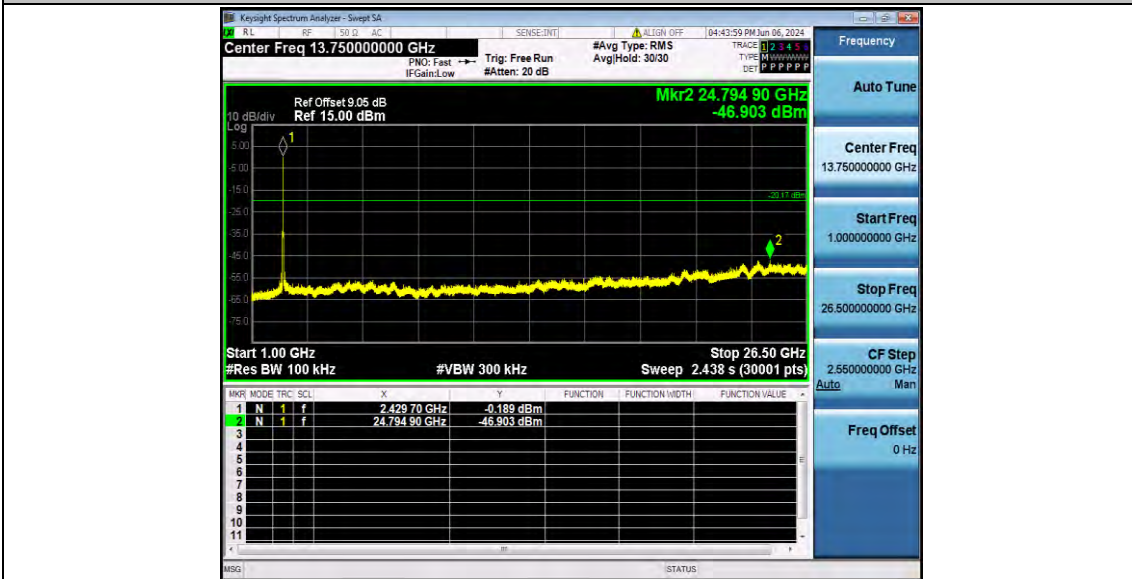
11G\_Ant0\_2437\_0~Reference



11G\_Ant0\_2437\_30~1000



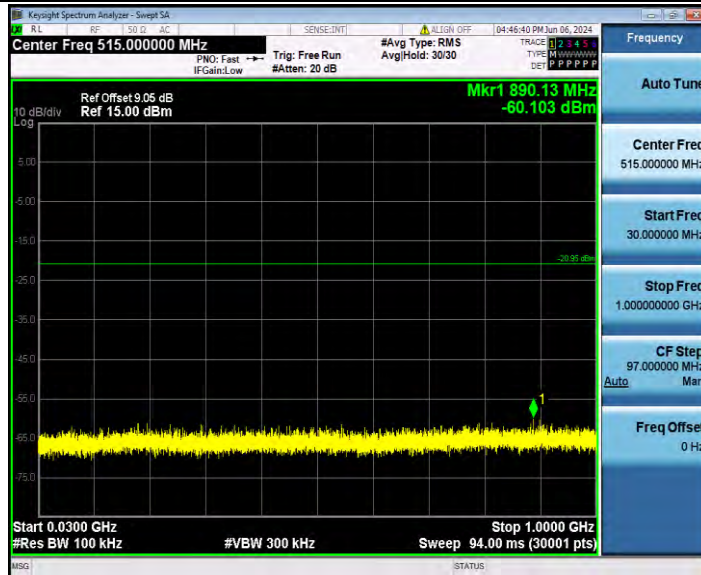
11G\_Ant0\_2437\_1000~26500



11G\_Ant0\_2462\_0~Reference

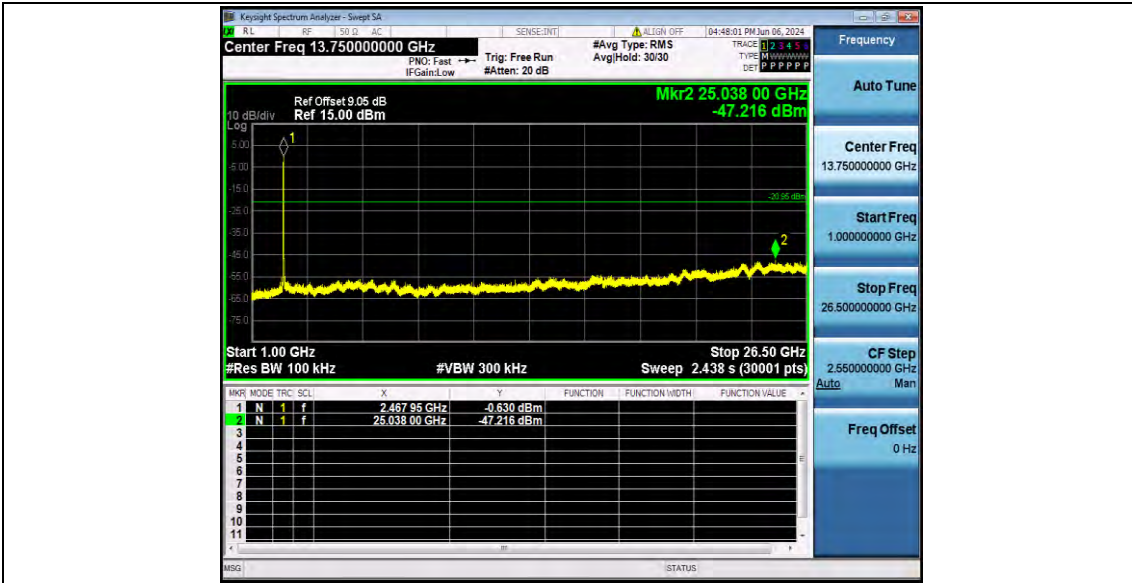


11G\_Ant0\_2462\_30~1000

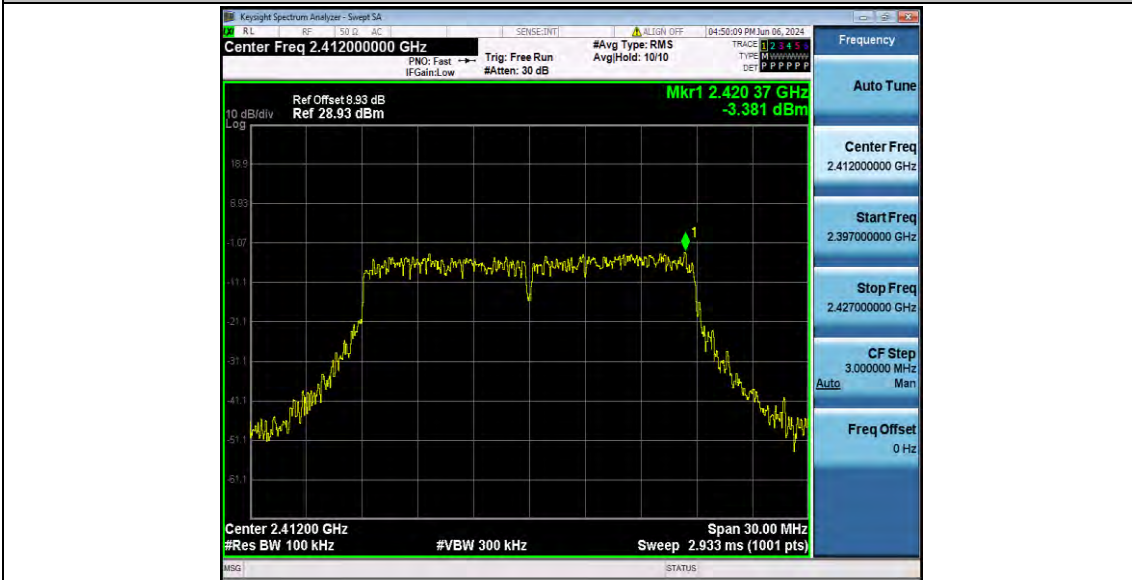


11G\_Ant0\_2462\_1000~26500

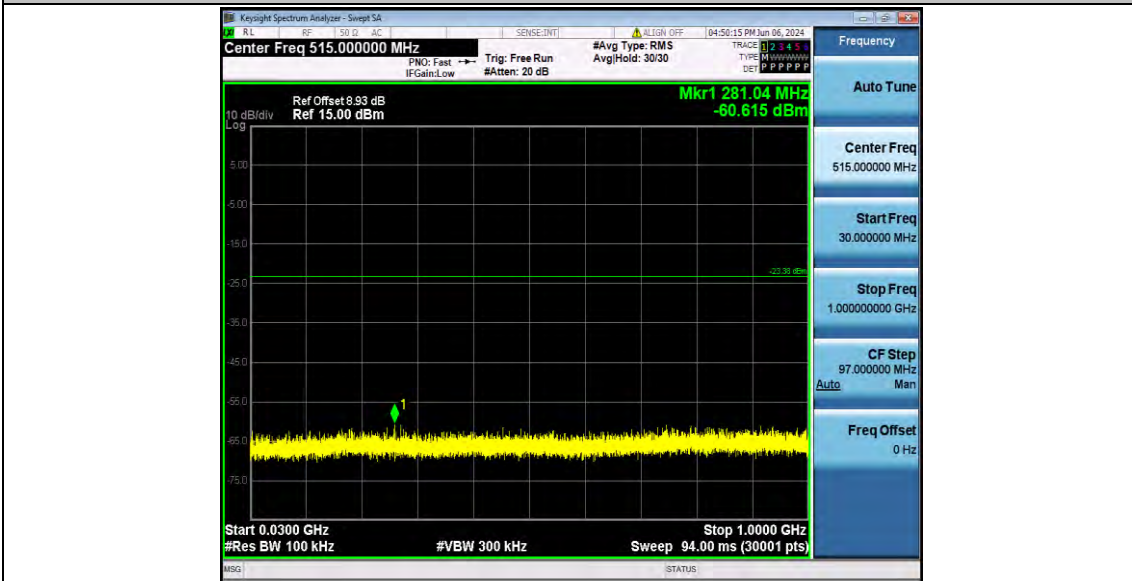




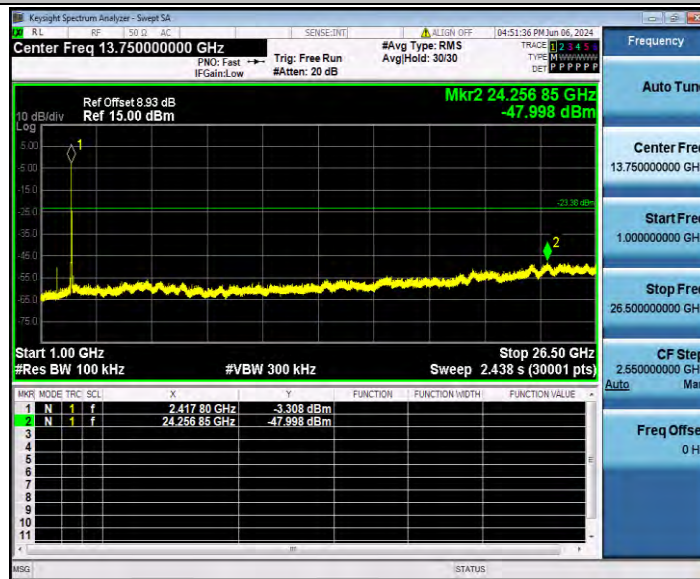
11N20SISO\_Ant0\_2412\_0~Reference



11N20SISO\_Ant0\_2412\_30~1000



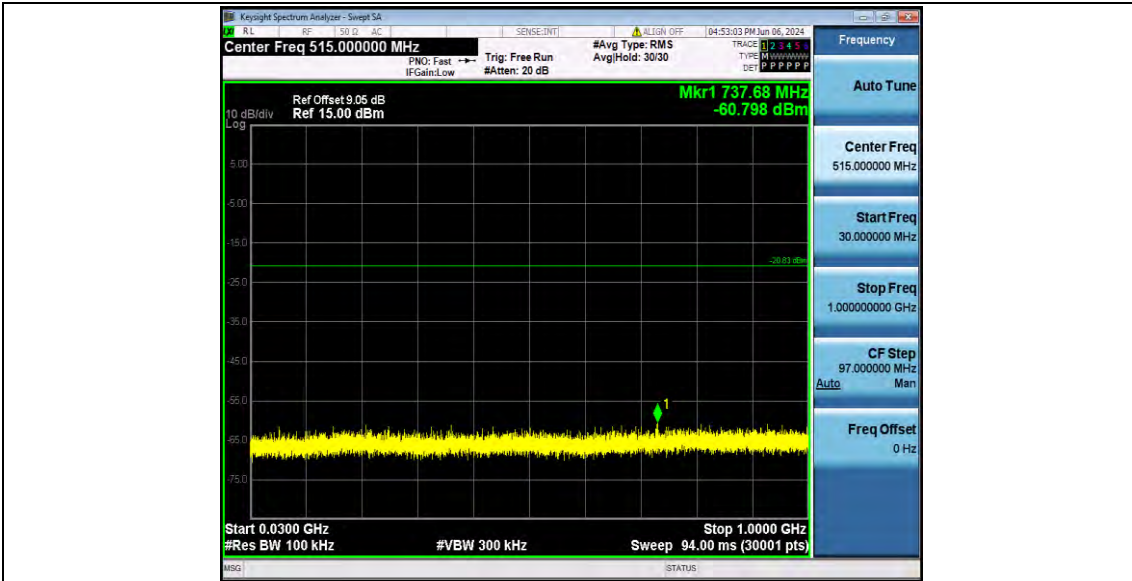
11N20SISO\_Ant0\_2412\_1000~26500



11N20SISO\_Ant0\_2437\_0~Reference



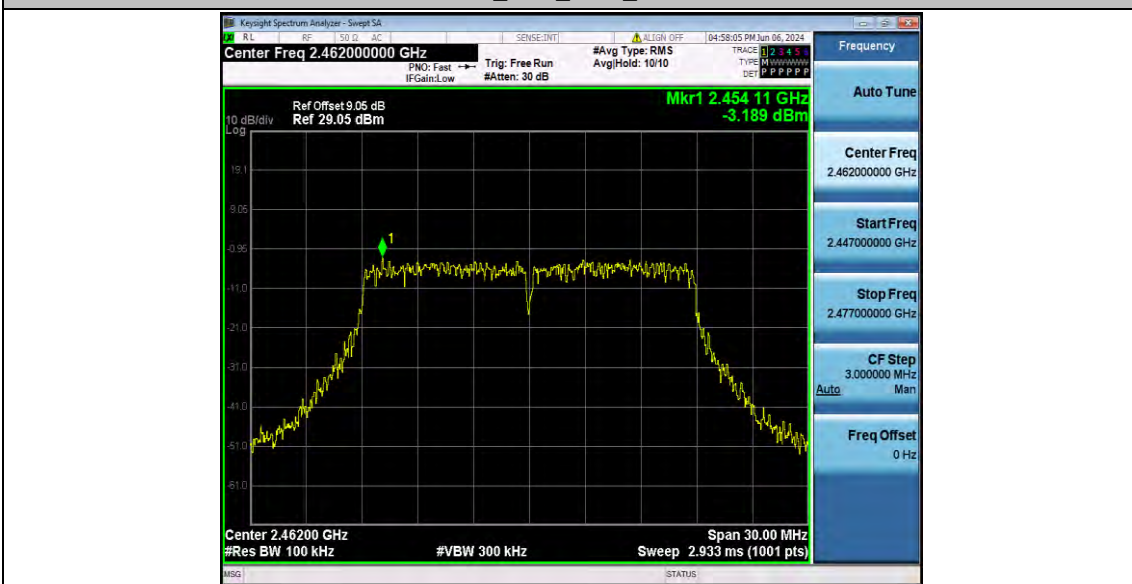
11N20SISO\_Ant0\_2437\_30~1000



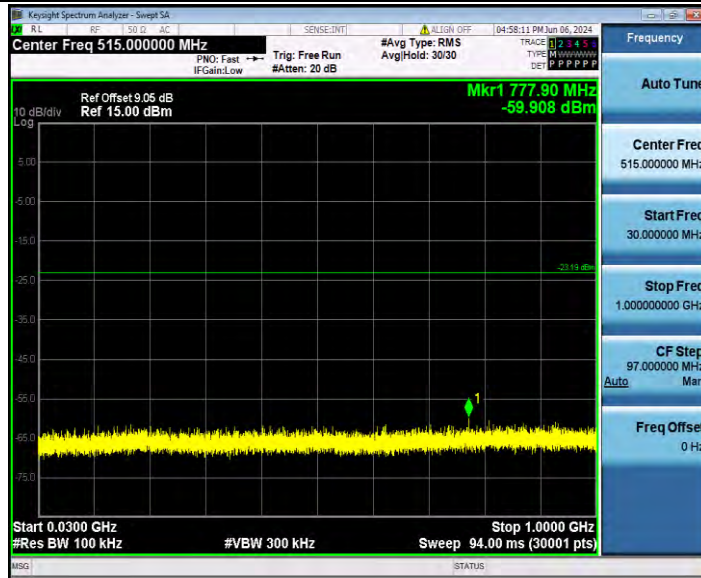
11N20SISO\_Ant0\_2437\_1000~26500



11N20SISO\_Ant0\_2462\_0~Reference



11N20SISO\_Ant0\_2462\_30~1000



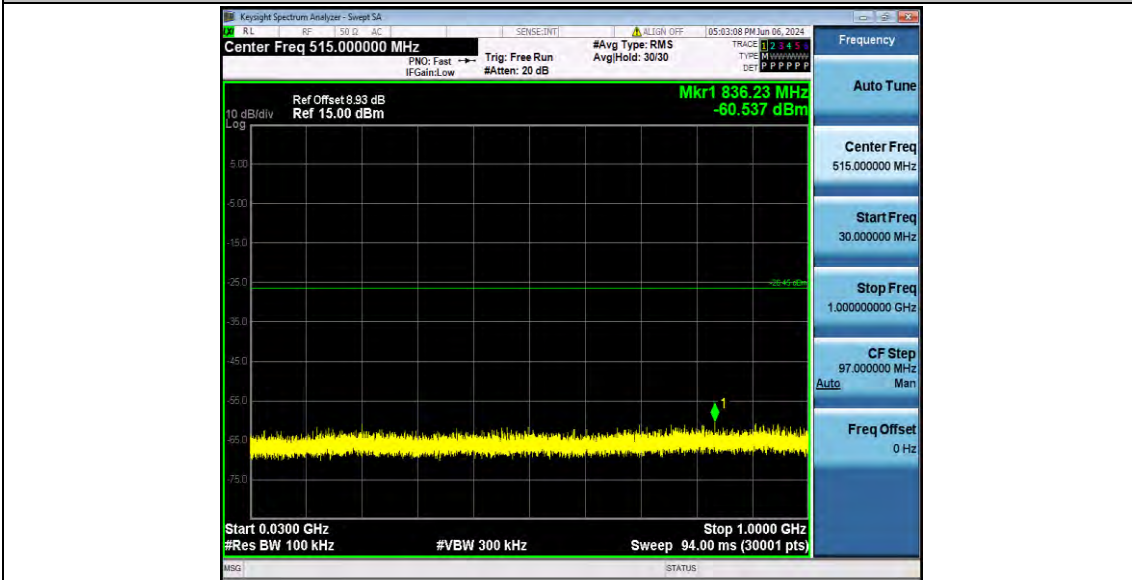
11N20SISO\_Ant0\_2462\_1000~26500



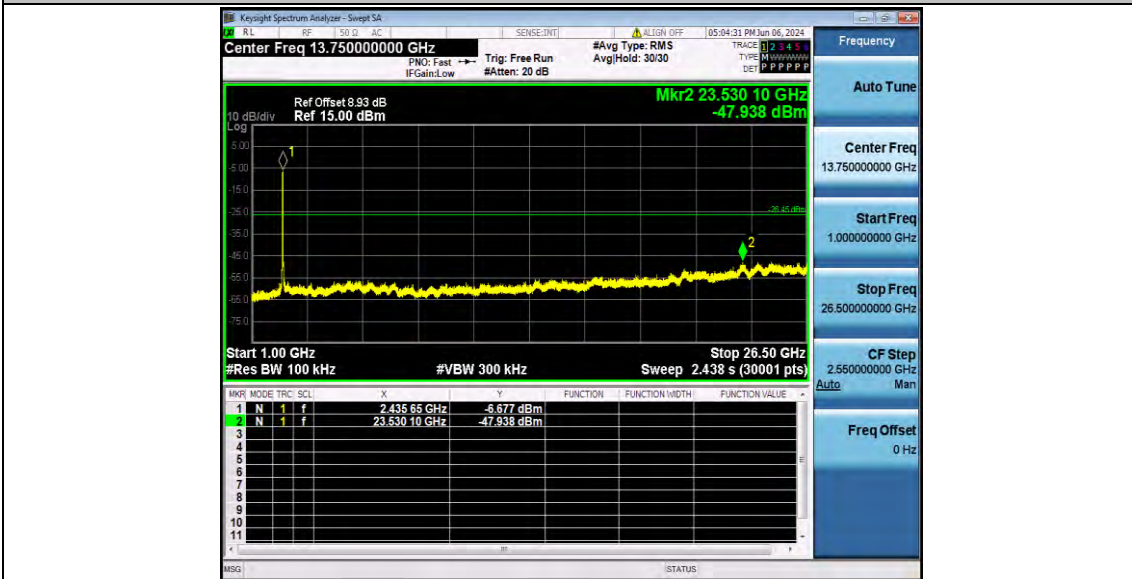
11N40SISO\_Ant0\_2422\_0~Reference



11N40SISO\_Ant0\_2422\_30~1000



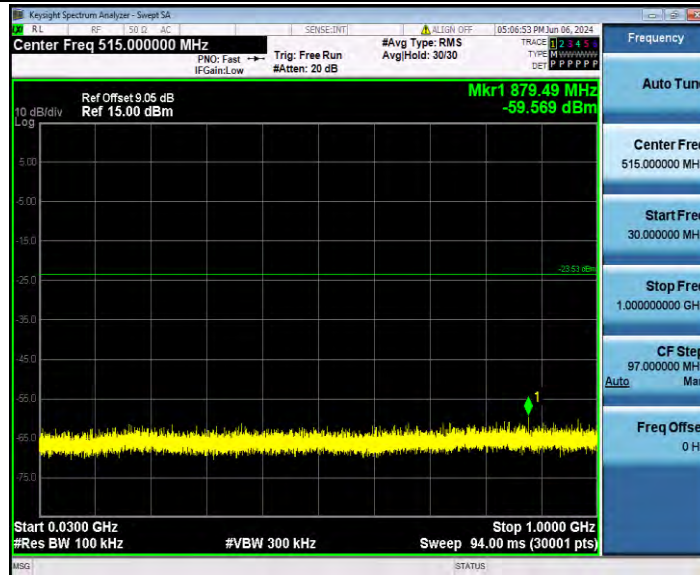
11N40SISO\_Ant0\_2422\_1000~26500



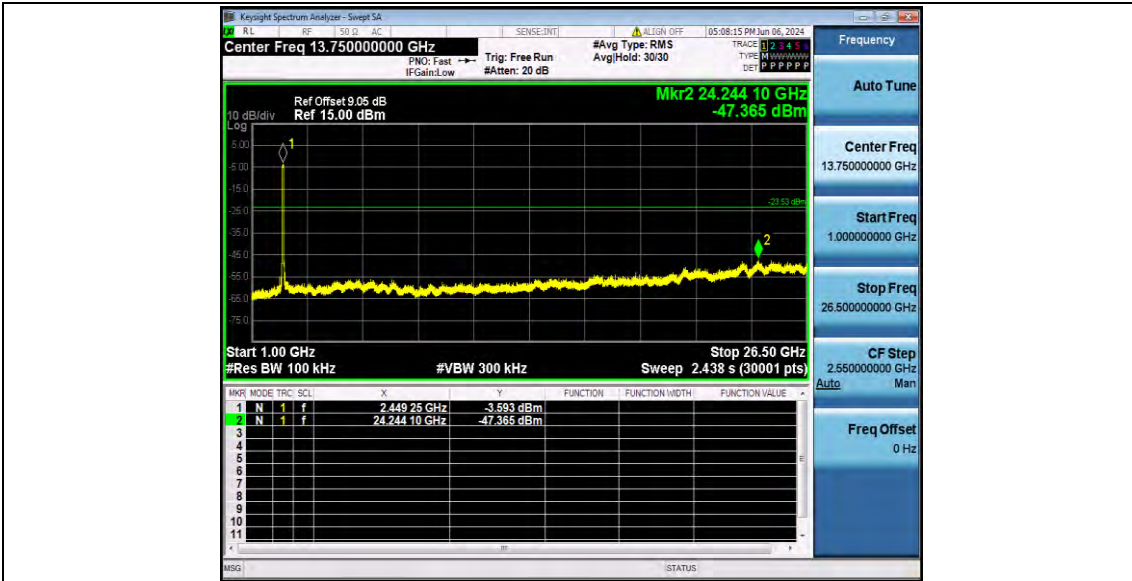
11N40SISO\_Ant0\_2437\_0~Reference



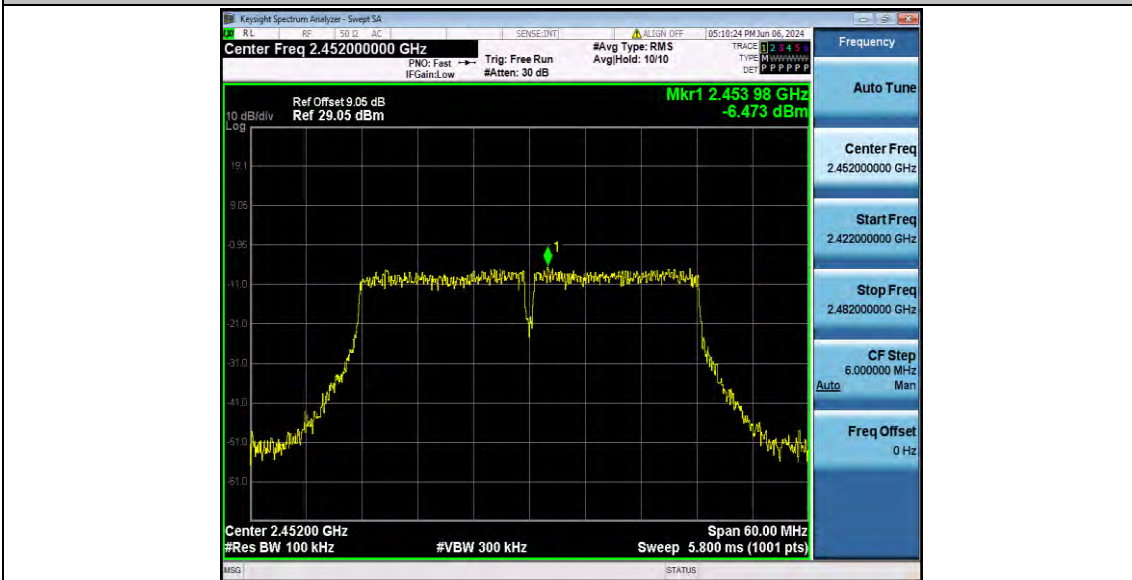
11N40SISO\_Ant0\_2437\_30~1000



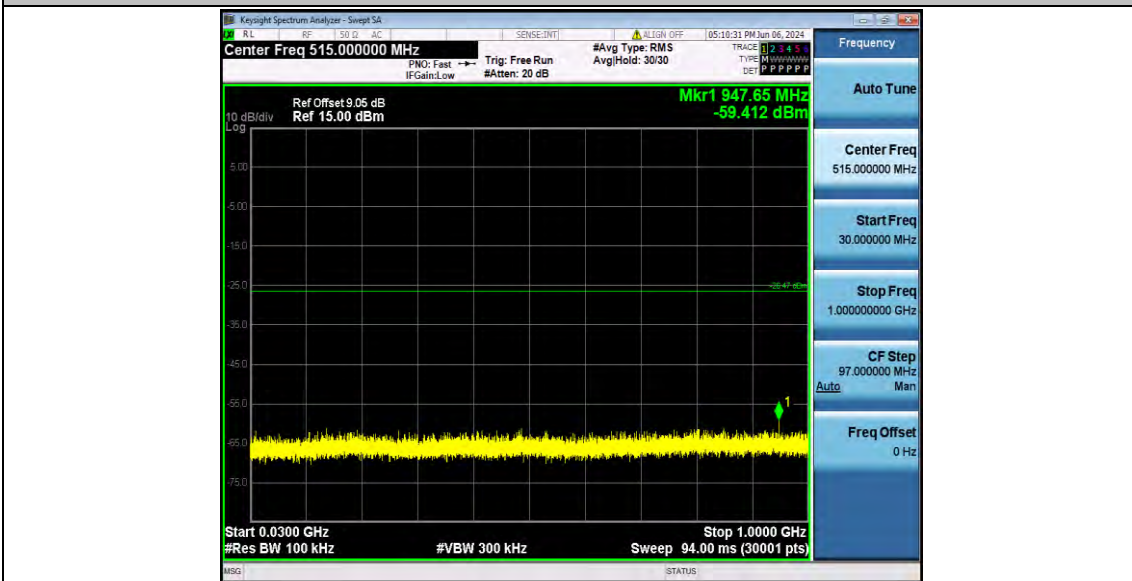
11N40SISO\_Ant0\_2437\_1000~26500

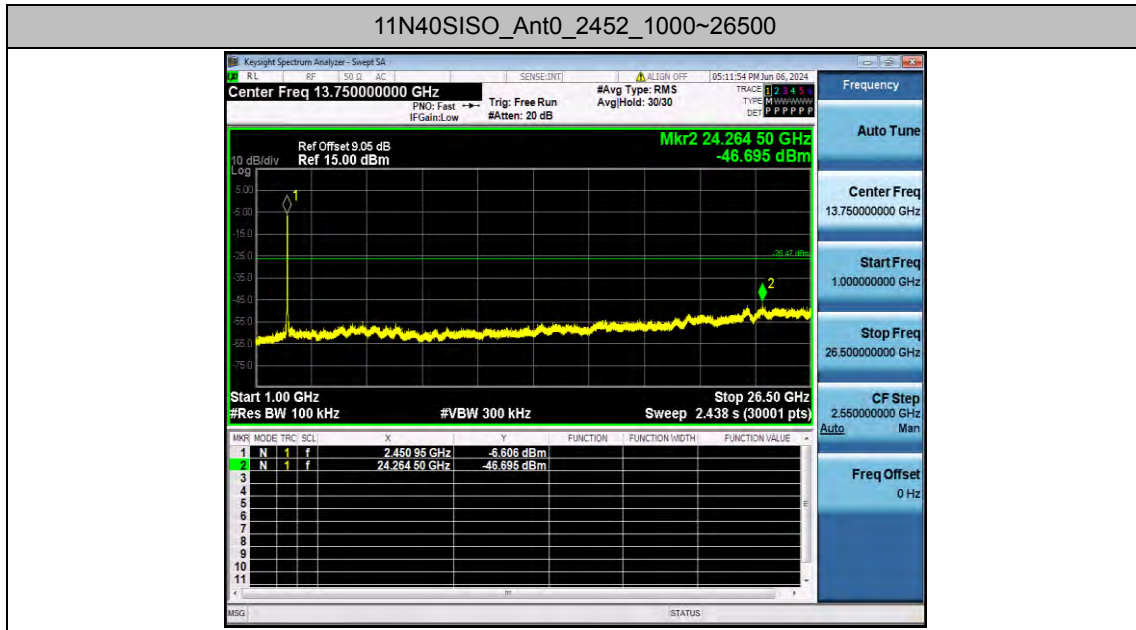


11N40SISO\_Ant0\_2452\_0~Reference



11N40SISO\_Ant0\_2452\_30~1000







## Appendix C.7: Emissions in Restricted Bands

### Test Result

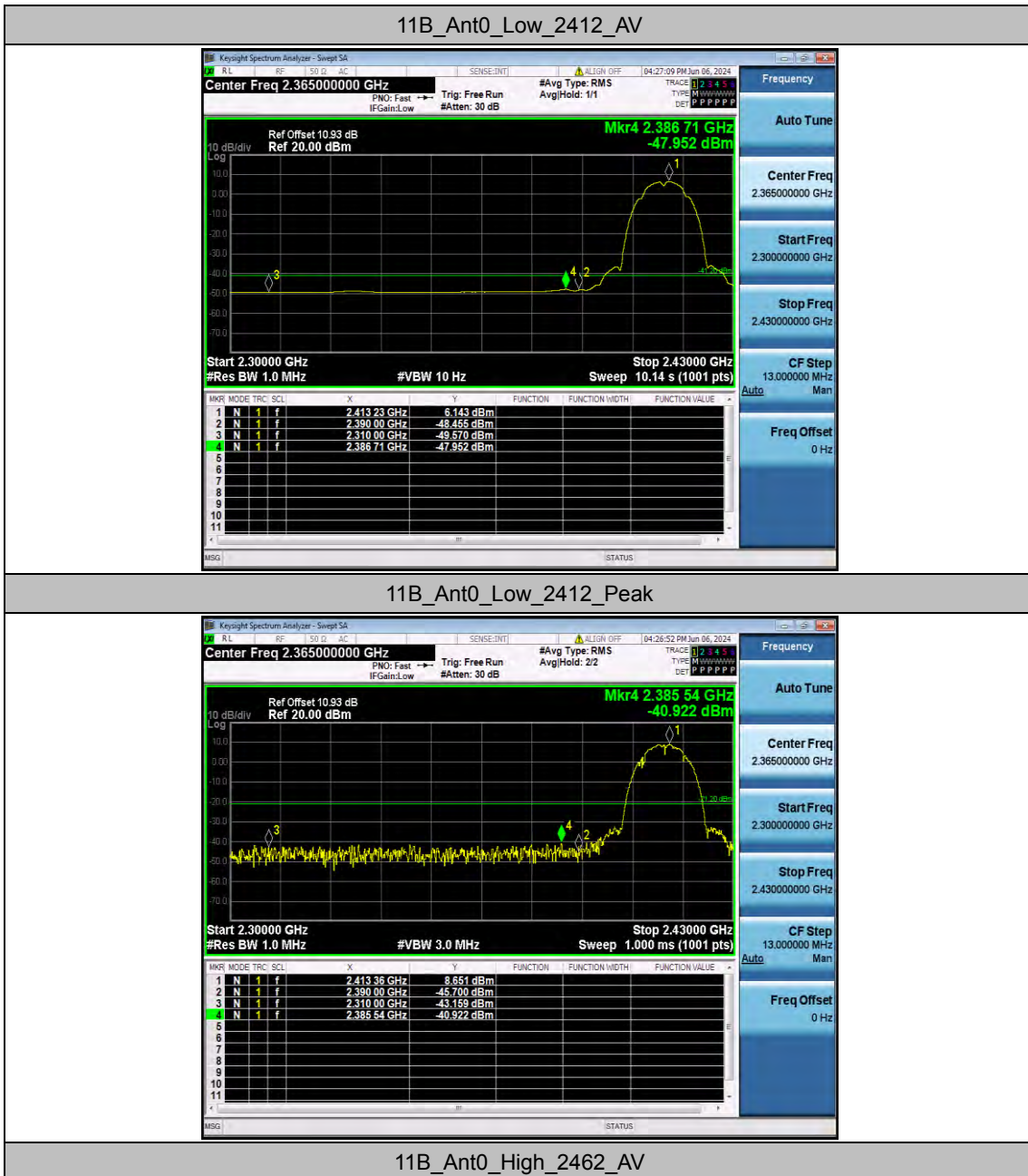
| TestMode      | Antenna  | ChName | Frequency [MHz] | Detector | Freq [MHz] | Result [dBm] | Limit [dBm] | Result [dBuV/m] | Limit [dBuV/m] | Verdict |
|---------------|----------|--------|-----------------|----------|------------|--------------|-------------|-----------------|----------------|---------|
| 11B           | Ant0     | Low    | 2412            | AV       | 2310.000   | -49.57       | ≤-41.20     | 45.63           | ≤54            | PASS    |
|               |          |        |                 | AV       | 2386.710   | -47.95       | ≤-41.20     | 47.25           | ≤54            | PASS    |
|               |          |        |                 | AV       | 2390.000   | -48.46       | ≤-41.20     | 46.74           | ≤54            | PASS    |
|               |          |        |                 | Peak     | 2310.000   | -43.16       | ≤-21.20     | 52.04           | ≤74            | PASS    |
|               |          |        |                 | Peak     | 2385.540   | -40.92       | ≤-21.20     | 54.28           | ≤74            | PASS    |
|               |          |        |                 | Peak     | 2390.000   | -45.7        | ≤-21.20     | 49.50           | ≤74            | PASS    |
|               |          | High   | 2462            | AV       | 2483.500   | -47.72       | ≤-41.20     | 47.48           | ≤54            | PASS    |
|               |          |        |                 | AV       | 2487.300   | -47.44       | ≤-41.20     | 47.76           | ≤54            | PASS    |
|               |          |        |                 | AV       | 2500.000   | -48.43       | ≤-41.20     | 46.77           | ≤54            | PASS    |
|               |          |        |                 | Peak     | 2483.500   | -47.55       | ≤-21.20     | 47.65           | ≤74            | PASS    |
|               |          |        |                 | Peak     | 2487.740   | -40.66       | ≤-21.20     | 54.54           | ≤74            | PASS    |
|               |          |        |                 | Peak     | 2500.000   | -44.87       | ≤-21.20     | 50.33           | ≤74            | PASS    |
| 11G           | Ant0     | Low    | 2412            | AV       | 2310.000   | -49.45       | ≤-41.20     | 45.75           | ≤54            | PASS    |
|               |          |        |                 | AV       | 2389.960   | -44.35       | ≤-41.20     | 50.85           | ≤54            | PASS    |
|               |          |        |                 | AV       | 2390.000   | -44.35       | ≤-41.20     | 50.85           | ≤54            | PASS    |
|               |          |        |                 | Peak     | 2310.000   | -53.18       | ≤-21.20     | 42.02           | ≤74            | PASS    |
|               |          |        |                 | Peak     | 2389.830   | -35.53       | ≤-21.20     | 59.67           | ≤74            | PASS    |
|               |          |        |                 | Peak     | 2390.000   | -40.96       | ≤-21.20     | 54.24           | ≤74            | PASS    |
|               |          | High   | 2462            | AV       | 2483.500   | -42.31       | ≤-41.20     | 52.89           | ≤54            | PASS    |
|               |          |        |                 | AV       | 2483.560   | -42.41       | ≤-41.20     | 52.79           | ≤54            | PASS    |
|               |          |        |                 | AV       | 2500.000   | -48.24       | ≤-41.20     | 46.96           | ≤54            | PASS    |
|               |          |        |                 | Peak     | 2483.500   | -38.35       | ≤-21.20     | 56.85           | ≤74            | PASS    |
|               |          |        |                 | Peak     | 2486.310   | -36.77       | ≤-21.20     | 58.43           | ≤74            | PASS    |
|               |          |        |                 | Peak     | 2500.000   | -45.29       | ≤-21.20     | 49.91           | ≤74            | PASS    |
| 11N20SIS<br>O | Ant0     | Low    | 2412            | AV       | 2310.000   | -49.49       | ≤-41.20     | 45.71           | ≤54            | PASS    |
|               |          |        |                 | AV       | 2389.960   | -46.41       | ≤-41.20     | 48.79           | ≤54            | PASS    |
|               |          |        |                 | AV       | 2390.000   | -46.41       | ≤-41.20     | 48.79           | ≤54            | PASS    |
|               |          |        |                 | Peak     | 2310.000   | -48.8        | ≤-21.20     | 46.40           | ≤74            | PASS    |
|               |          |        |                 | Peak     | 2389.960   | -36.37       | ≤-21.20     | 58.83           | ≤74            | PASS    |
|               |          |        |                 | Peak     | 2390.000   | -36.37       | ≤-21.20     | 58.83           | ≤74            | PASS    |
|               |          | High   | 2462            | AV       | 2483.500   | -46.49       | ≤-41.20     | 48.71           | ≤54            | PASS    |
|               |          |        |                 | AV       | 2483.560   | -46.54       | ≤-41.20     | 48.66           | ≤54            | PASS    |
|               |          |        |                 | AV       | 2500.000   | -48.37       | ≤-41.20     | 46.83           | ≤54            | PASS    |
|               |          |        |                 | Peak     | 2483.500   | -45.35       | ≤-21.20     | 49.85           | ≤74            | PASS    |
| Peak          | 2494.120 | -39.22 | ≤-21.20         | 55.98    | ≤74        | PASS         |             |                 |                |         |

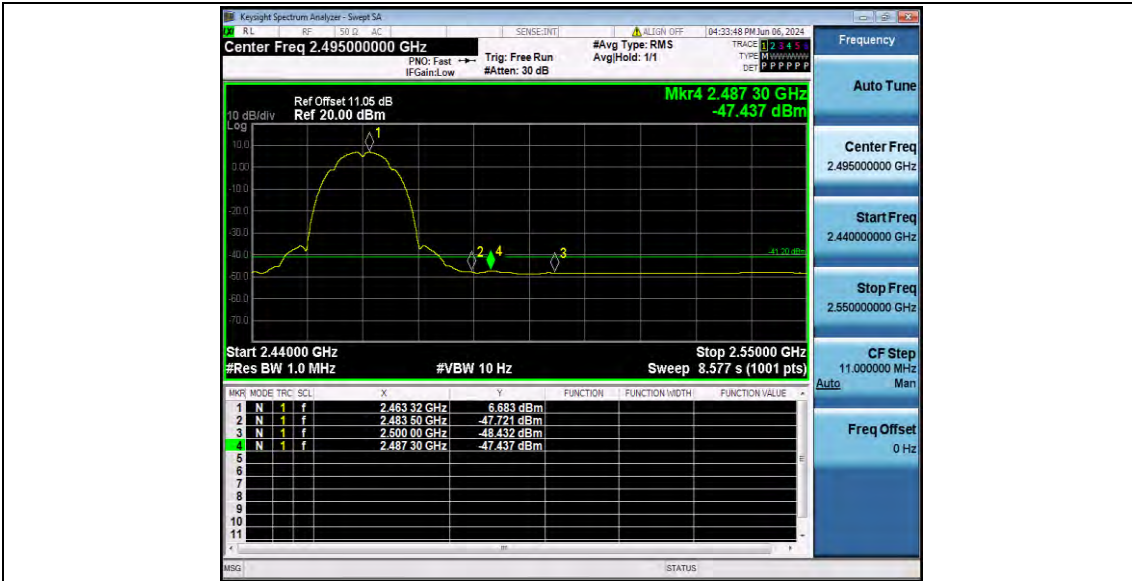
|               |      |      |      |      |          |        |               |       |           |      |
|---------------|------|------|------|------|----------|--------|---------------|-------|-----------|------|
|               |      |      |      | Peak | 2500.000 | -46.08 | $\leq -21.20$ | 49.12 | $\leq 74$ | PASS |
| 11N40SIS<br>O | Ant0 | Low  | 2422 | AV   | 2310.000 | -49.49 | $\leq -41.20$ | 45.71 | $\leq 54$ | PASS |
|               |      |      |      | AV   | 2389.960 | -46.65 | $\leq -41.20$ | 48.55 | $\leq 54$ | PASS |
|               |      |      |      | AV   | 2390.000 | -46.65 | $\leq -41.20$ | 48.55 | $\leq 54$ | PASS |
|               |      |      |      | Peak | 2310.000 | -48.61 | $\leq -21.20$ | 46.59 | $\leq 74$ | PASS |
|               |      |      |      | Peak | 2388.660 | -38.34 | $\leq -21.20$ | 56.86 | $\leq 74$ | PASS |
|               |      |      |      | Peak | 2390.000 | -44.4  | $\leq -21.20$ | 50.80 | $\leq 74$ | PASS |
|               |      | High | 2452 | AV   | 2483.500 | -46.12 | $\leq -41.20$ | 49.08 | $\leq 54$ | PASS |
|               |      |      |      | AV   | 2483.560 | -46.14 | $\leq -41.20$ | 49.06 | $\leq 54$ | PASS |
|               |      |      |      | AV   | 2500.000 | -47.72 | $\leq -41.20$ | 47.48 | $\leq 54$ | PASS |
|               |      |      |      | Peak | 2483.500 | -39.77 | $\leq -21.20$ | 55.43 | $\leq 74$ | PASS |
|               |      |      |      | Peak | 2490.600 | -39.04 | $\leq -21.20$ | 56.16 | $\leq 74$ | PASS |
|               |      |      |      | Peak | 2500.000 | -44.83 | $\leq -21.20$ | 50.37 | $\leq 74$ | PASS |

## Note:

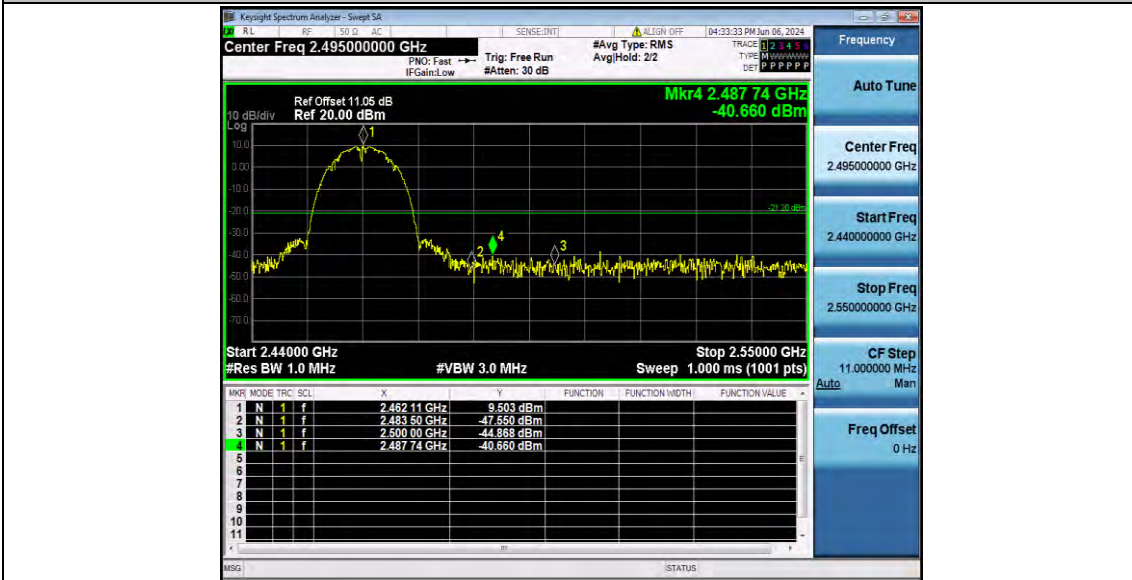
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

## Test Graphs





11B\_Ant0\_High\_2462\_Peak



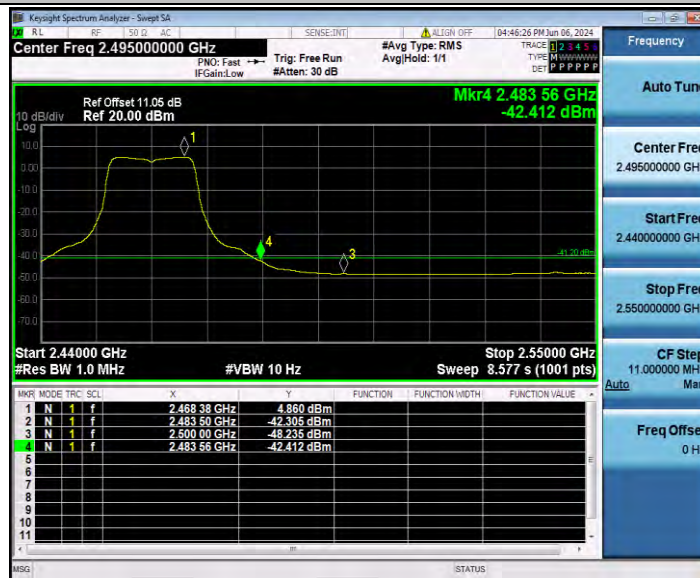
11G\_Ant0\_Low\_2412\_AV



11G\_Ant0\_Low\_2412\_Peak



11G\_Ant0\_High\_2462\_AV



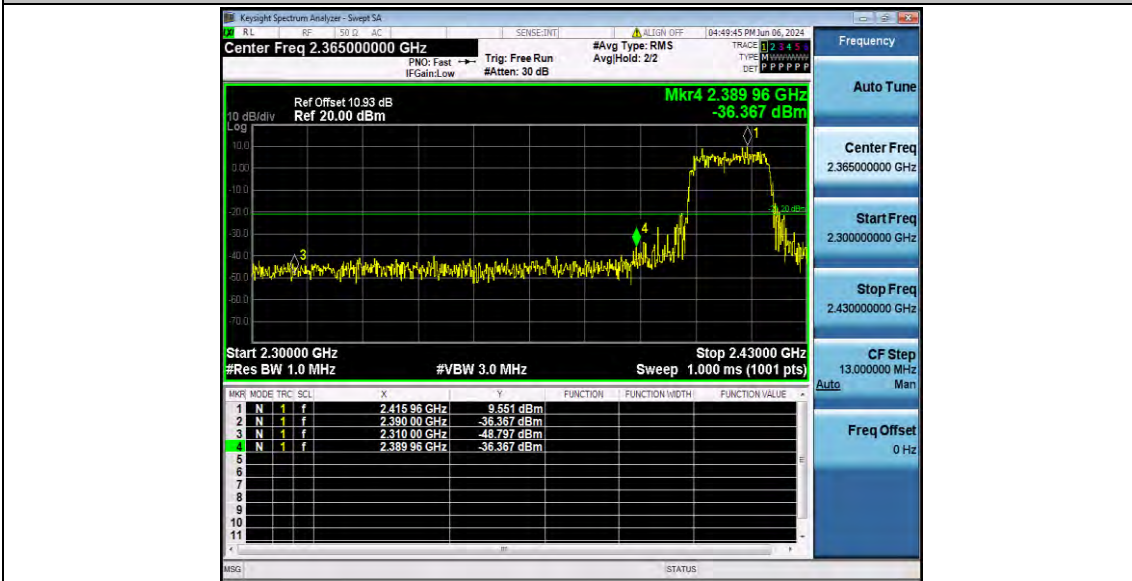
11G\_Ant0\_High\_2462\_Peak



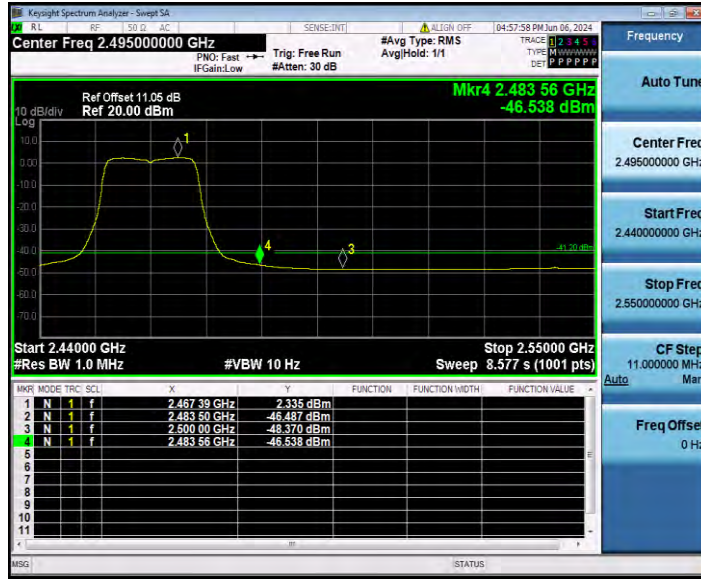
11N20SISO\_Ant0\_Low\_2412\_AV



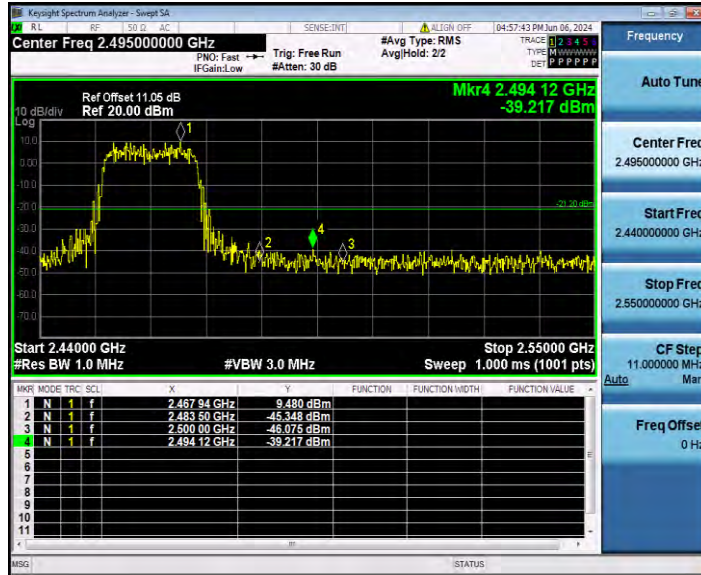
11N20SISO\_Ant0\_Low\_2412\_Peak



11N20SISO\_Ant0\_High\_2462\_AV



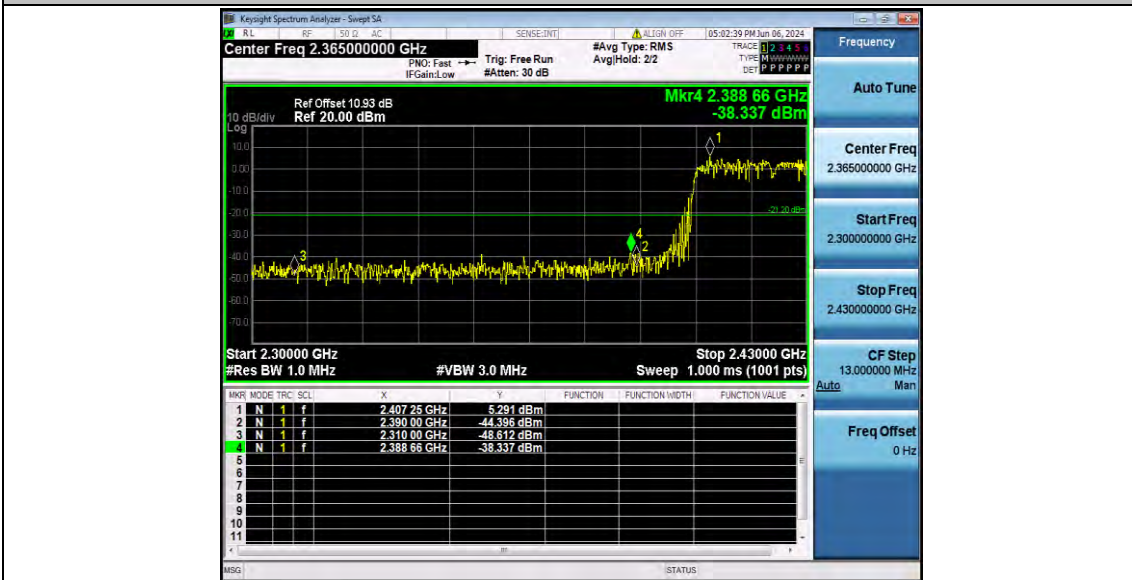
11N20SISO\_Ant0\_High\_2462\_Peak



11N40SISO\_Ant0\_Low\_2422\_AV



11N40SISO\_Ant0\_Low\_2422\_Peak



11N40SISO\_Ant0\_High\_2452\_AV





11N40SISO\_Ant0\_High\_2452\_Peak

