

|                                                        |                                          |
|--------------------------------------------------------|------------------------------------------|
| <b>Case No. :</b> <u>CTA24072303403</u>                |                                          |
| <b>Ambient Condition:</b> <u>23</u> °C, <u>52</u> %RH, |                                          |
| <b>According Standard:</b> <u>■RSS 247</u>             |                                          |
| <b>Test Date:</b> <u>2024.8.9</u>                      | <b>Test Engineer:</b> <u>Lushan Kong</u> |

## Appendix B.1: DTS Bandwidth

### Test Result

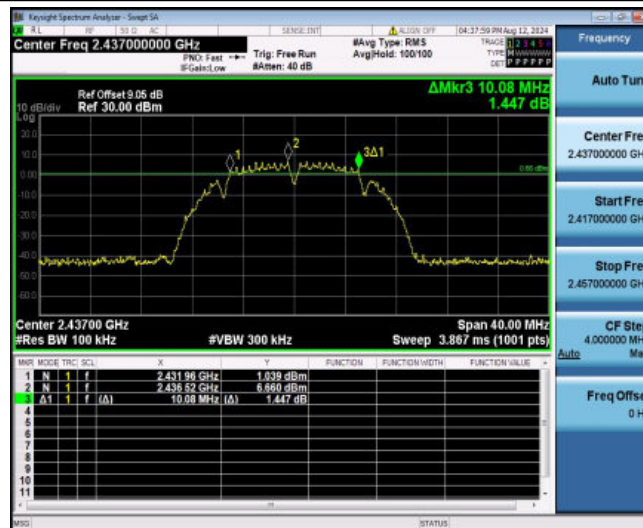
| TestMode   | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|----------------|--------------|----------|----------|------------|---------|
| 11B        | Ant1    | 2412           | 10.040       | 2407.000 | 2417.040 | 0.5        | PASS    |
|            |         | 2437           | 10.080       | 2431.960 | 2442.040 | 0.5        | PASS    |
|            |         | 2462           | 10.080       | 2456.960 | 2467.040 | 0.5        | PASS    |
| 11G        | Ant1    | 2412           | 15.240       | 2404.240 | 2419.480 | 0.5        | PASS    |
|            |         | 2437           | 13.840       | 2430.720 | 2444.560 | 0.5        | PASS    |
|            |         | 2462           | 12.880       | 2454.520 | 2467.400 | 0.5        | PASS    |
| 11N20SISO  | Ant1    | 2412           | 13.400       | 2406.120 | 2419.520 | 0.5        | PASS    |
|            |         | 2437           | 12.560       | 2431.960 | 2444.520 | 0.5        | PASS    |
|            |         | 2462           | 17.520       | 2453.240 | 2470.760 | 0.5        | PASS    |
| 11N40SISO  | Ant1    | 2422           | 31.040       | 2408.480 | 2439.520 | 0.5        | PASS    |
|            |         | 2437           | 27.440       | 2423.240 | 2450.680 | 0.5        | PASS    |
|            |         | 2452           | 35.920       | 2433.840 | 2469.760 | 0.5        | PASS    |
| 11AX20SISO | Ant1    | 2412           | 17.000       | 2402.760 | 2419.760 | 0.5        | PASS    |
|            |         | 2437           | 17.120       | 2428.480 | 2445.600 | 0.5        | PASS    |
|            |         | 2462           | 17.320       | 2453.600 | 2470.920 | 0.5        | PASS    |

## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462



11G\_Ant1\_2412



11G\_Ant1\_2437



11G\_Ant1\_2462



11N20SISO\_Ant1\_2412



11N20SISO\_Ant1\_2437



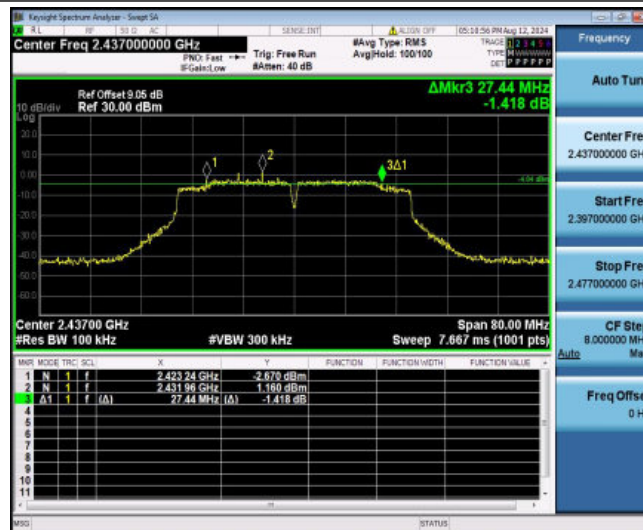
11N20SISO\_Ant1\_2462



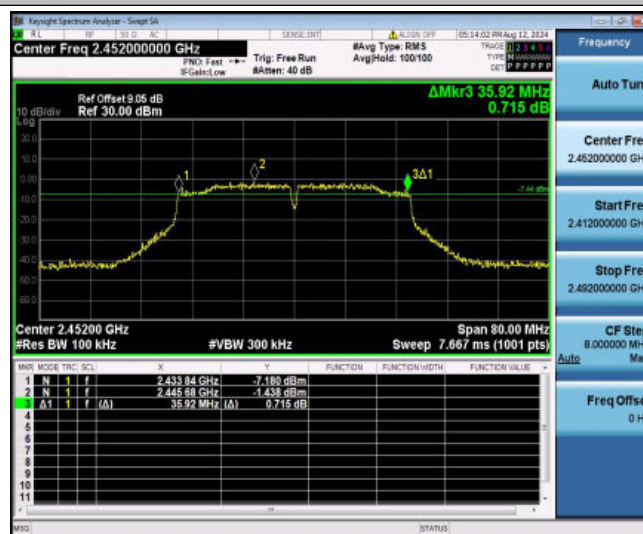
11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452



11AX20SISO\_Ant1\_2412



11AX20SISO\_Ant1\_2437



11AX20SISO\_Ant1\_2462



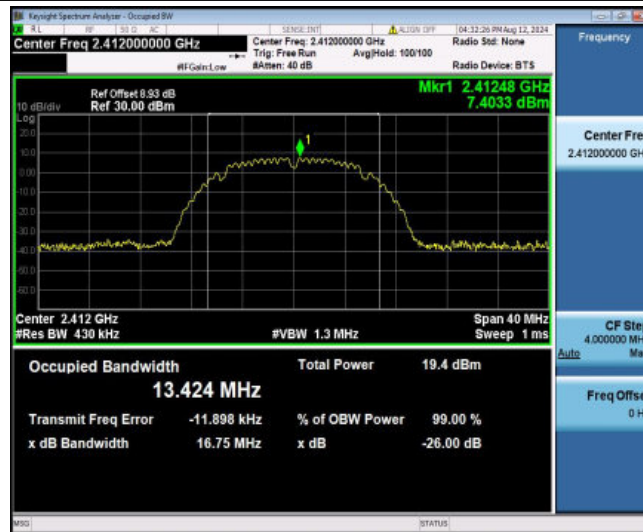
## Appendix B.2: Occupied Channel Bandwidth

### Test Result

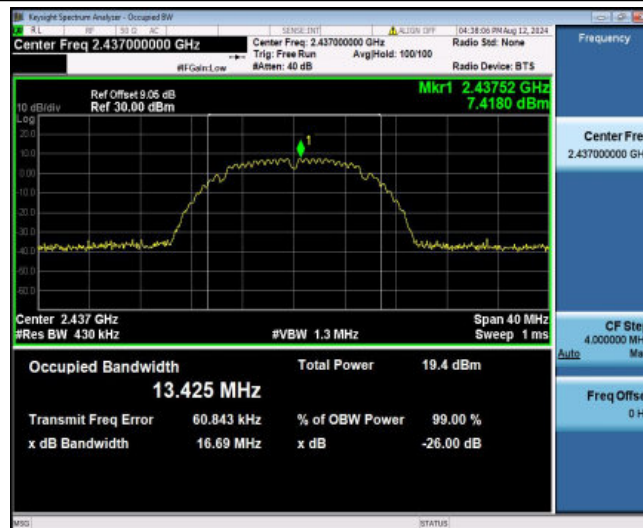
| TestMode   | Antenna | Channel Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|------------|---------|------------------------|-----------|-----------|-----------|------------|---------|
| 11B        | Ant1    | 2412                   | 13.424    | 2405.2761 | 2418.7001 | ---        | ---     |
|            |         | 2437                   | 13.425    | 2430.3483 | 2443.7733 | ---        | ---     |
|            |         | 2462                   | 13.374    | 2455.3253 | 2468.6993 | ---        | ---     |
| 11G        | Ant1    | 2412                   | 16.898    | 2403.5477 | 2420.4457 | ---        | ---     |
|            |         | 2437                   | 16.844    | 2428.6051 | 2445.4491 | ---        | ---     |
|            |         | 2462                   | 16.757    | 2453.6365 | 2470.3935 | ---        | ---     |
| 11N20SISO  | Ant1    | 2412                   | 17.955    | 2403.0075 | 2420.9625 | ---        | ---     |
|            |         | 2437                   | 18.022    | 2428.0505 | 2446.0725 | ---        | ---     |
|            |         | 2462                   | 17.933    | 2453.0256 | 2470.9586 | ---        | ---     |
| 11N40SISO  | Ant1    | 2422                   | 36.174    | 2403.9370 | 2440.1110 | ---        | ---     |
|            |         | 2437                   | 36.085    | 2418.9534 | 2455.0384 | ---        | ---     |
|            |         | 2452                   | 35.978    | 2433.9889 | 2469.9669 | ---        | ---     |
| 11AX20SISO | Ant1    | 2412                   | 18.930    | 2402.5263 | 2421.4563 | ---        | ---     |
|            |         | 2437                   | 18.973    | 2427.5757 | 2446.5487 | ---        | ---     |
|            |         | 2462                   | 18.995    | 2452.4872 | 2471.4822 | ---        | ---     |

## Test Graphs

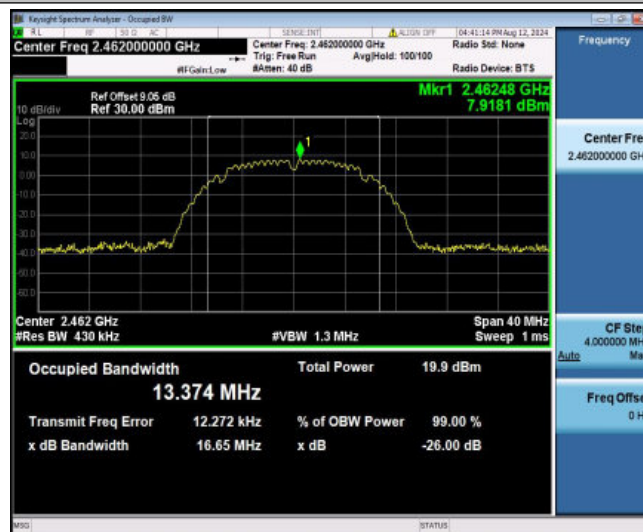
11B\_Ant1\_2412



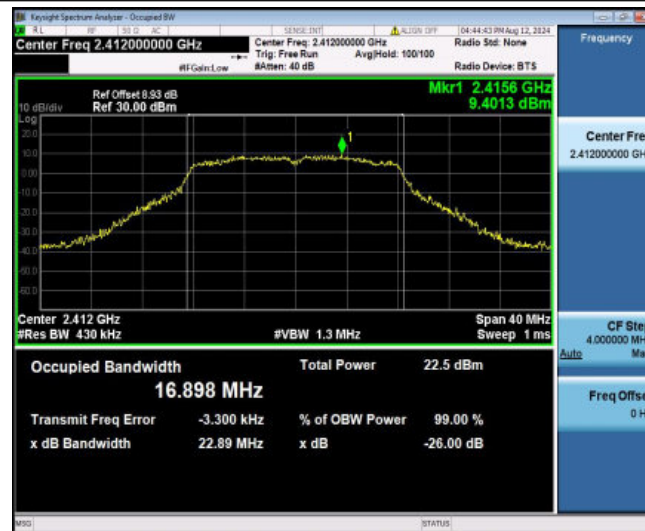
11B\_Ant1\_2437



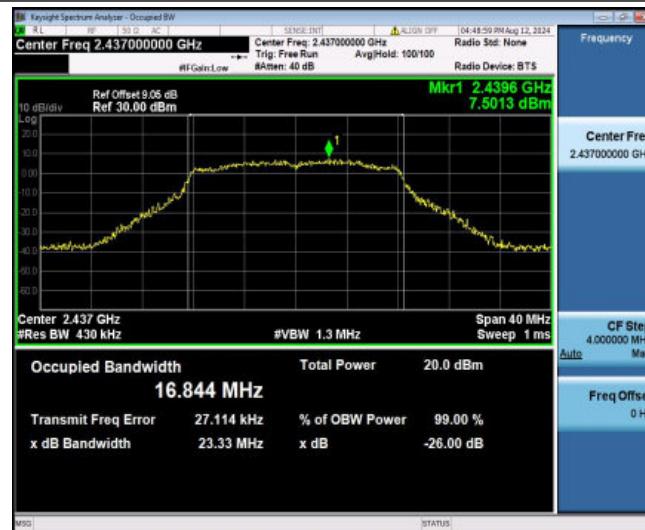
11B\_Ant1\_2462



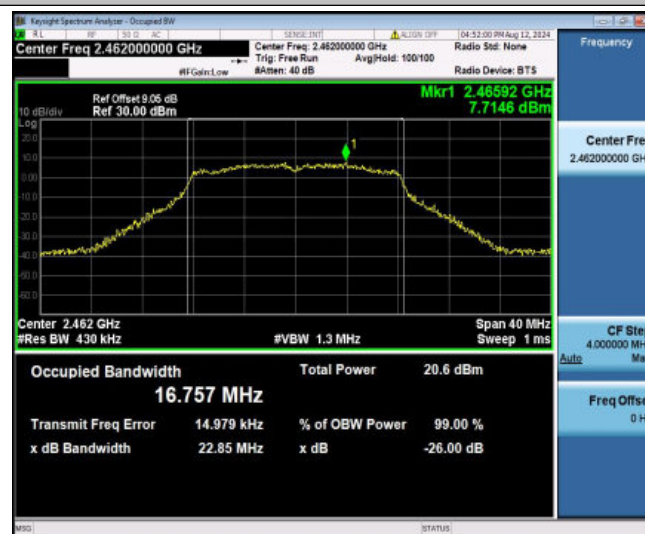
11G\_Ant1\_2412



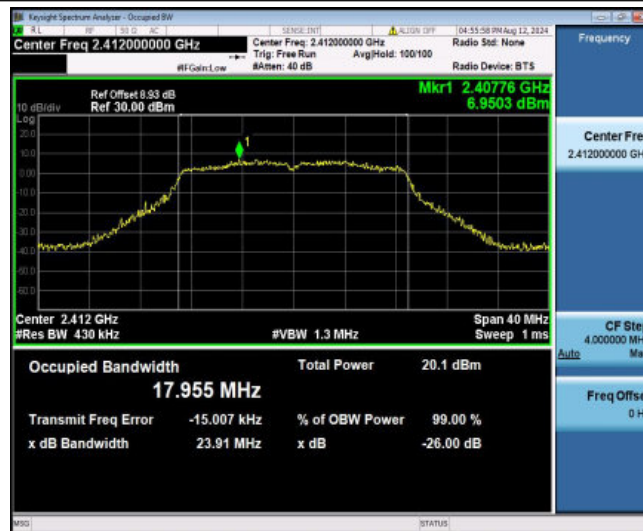
11G\_Ant1\_2437



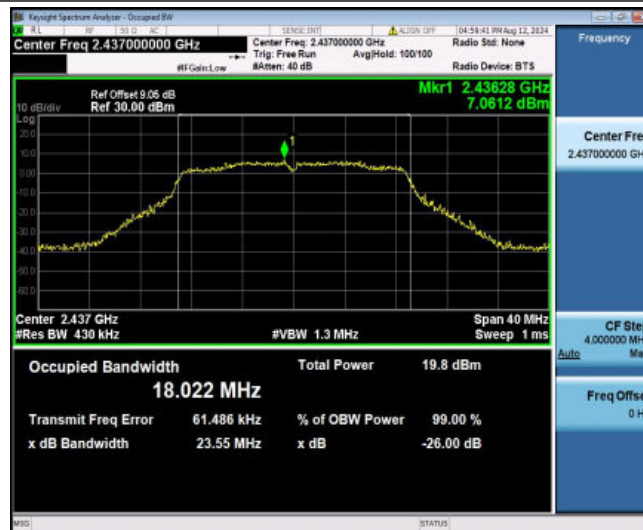
11G\_Ant1\_2462



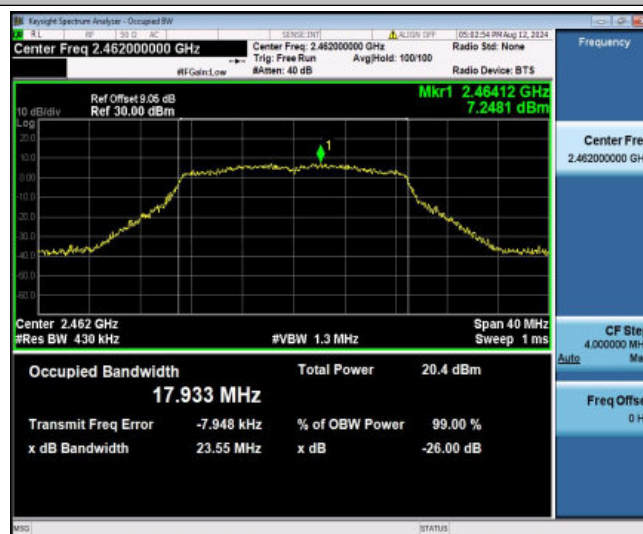
11N20SISO\_Ant1\_2412



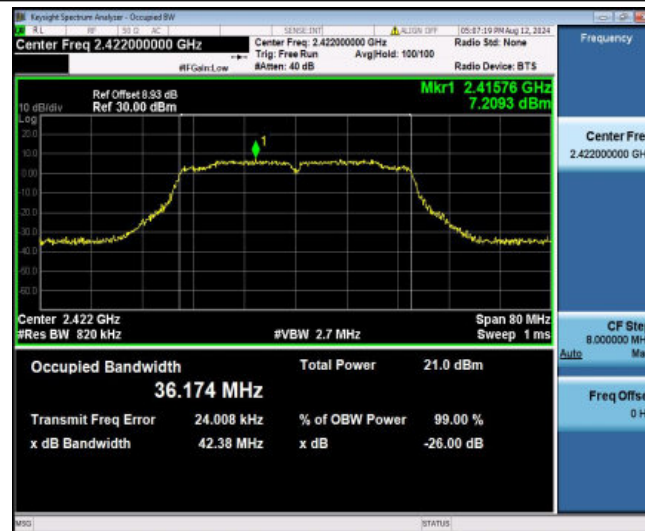
11N20SISO\_Ant1\_2437



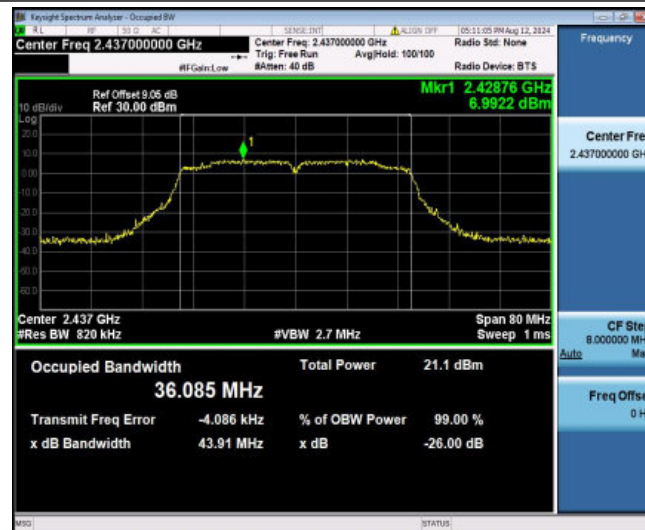
11N20SISO\_Ant1\_2462



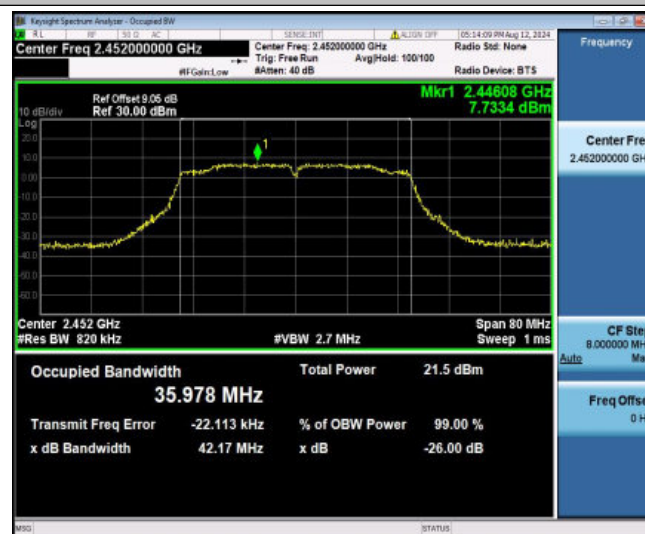
11N40SISO\_Ant1\_2422



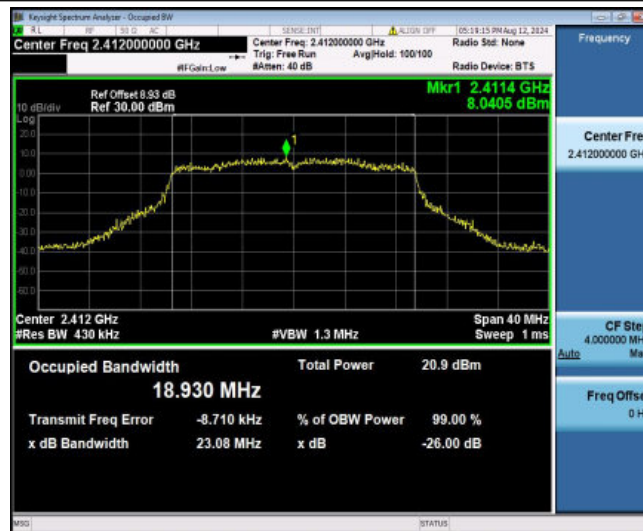
11N40SISO\_Ant1\_2437



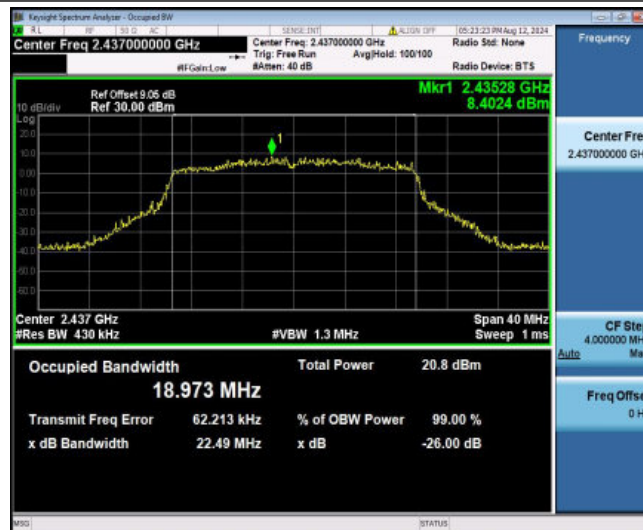
11N40SISO\_Ant1\_2452



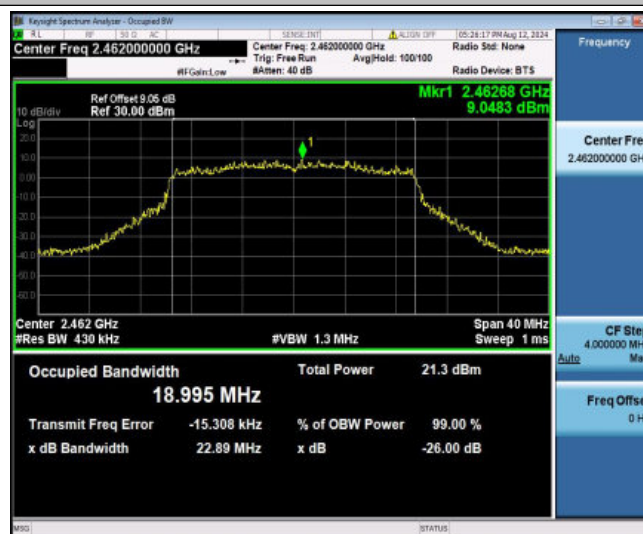
11AX20SISO\_Ant1\_2412



11AX20SISO\_Ant1\_2437



11AX20SISO\_Ant1\_2462



## Appendix B.3: Maximum conducted output power

### Test Result

| Test Mode  | Antenna | Frequency [MHz] | Peak power [dBm] | Limit [dBm] | Gain [dBi] | EIRP [dBm] | EIRP Limit [dBm] | Verdict |
|------------|---------|-----------------|------------------|-------------|------------|------------|------------------|---------|
| 11B        | Ant1    | 2412            | 19.43            | ≤30.00      | 4.42       | 23.85      | ≤36.00           | PASS    |
|            |         | 2437            | 19.43            | ≤30.00      | 4.42       | 23.85      | ≤36.00           | PASS    |
|            |         | 2462            | 19.93            | ≤30.00      | 4.42       | 24.35      | ≤36.00           | PASS    |
| 11G        | Ant1    | 2412            | 23.43            | ≤30.00      | 4.42       | 27.85      | ≤36.00           | PASS    |
|            |         | 2437            | 21.00            | ≤30.00      | 4.42       | 25.42      | ≤36.00           | PASS    |
|            |         | 2462            | 21.58            | ≤30.00      | 4.42       | 26.00      | ≤36.00           | PASS    |
| 11N20SISO  | Ant1    | 2412            | 21.07            | ≤30.00      | 4.42       | 25.49      | ≤36.00           | PASS    |
|            |         | 2437            | 21.02            | ≤30.00      | 4.42       | 25.44      | ≤36.00           | PASS    |
|            |         | 2462            | 21.50            | ≤30.00      | 4.42       | 25.92      | ≤36.00           | PASS    |
| 11N40SISO  | Ant1    | 2422            | 21.16            | ≤30.00      | 4.42       | 25.58      | ≤36.00           | PASS    |
|            |         | 2437            | 21.41            | ≤30.00      | 4.42       | 25.83      | ≤36.00           | PASS    |
|            |         | 2452            | 21.69            | ≤30.00      | 4.42       | 26.11      | ≤36.00           | PASS    |
| 11AX20SISO | Ant1    | 2412            | 21.47            | ≤30.00      | 4.42       | 25.89      | ≤36.00           | PASS    |
|            |         | 2437            | 21.28            | ≤30.00      | 4.42       | 25.70      | ≤36.00           | PASS    |
|            |         | 2462            | 21.77            | ≤30.00      | 4.42       | 26.19      | ≤36.00           | PASS    |

## Appendix B.4: Maximum power spectral density

### Test Result

| TestMode   | Antenna | Frequency[MHz] | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|------------|---------|----------------|----------------------|-----------------|---------|
| 11B        | Ant1    | 2412           | -7.93                | ≤8.00           | PASS    |
|            |         | 2437           | -6.53                | ≤8.00           | PASS    |
|            |         | 2462           | -6.19                | ≤8.00           | PASS    |
| 11G        | Ant1    | 2412           | -8.85                | ≤8.00           | PASS    |
|            |         | 2437           | -11.03               | ≤8.00           | PASS    |
|            |         | 2462           | -9.06                | ≤8.00           | PASS    |
| 11N20SISO  | Ant1    | 2412           | -11.29               | ≤8.00           | PASS    |
|            |         | 2437           | -10.69               | ≤8.00           | PASS    |
|            |         | 2462           | -9.68                | ≤8.00           | PASS    |
| 11N40SISO  | Ant1    | 2422           | -14.07               | ≤8.00           | PASS    |
|            |         | 2437           | -14.43               | ≤8.00           | PASS    |
|            |         | 2452           | -12.92               | ≤8.00           | PASS    |
| 11AX20SISO | Ant1    | 2412           | -11.87               | ≤8.00           | PASS    |
|            |         | 2437           | -12.40               | ≤8.00           | PASS    |
|            |         | 2462           | -11.31               | ≤8.00           | PASS    |

## Test Graphs

11B\_Ant1\_2412



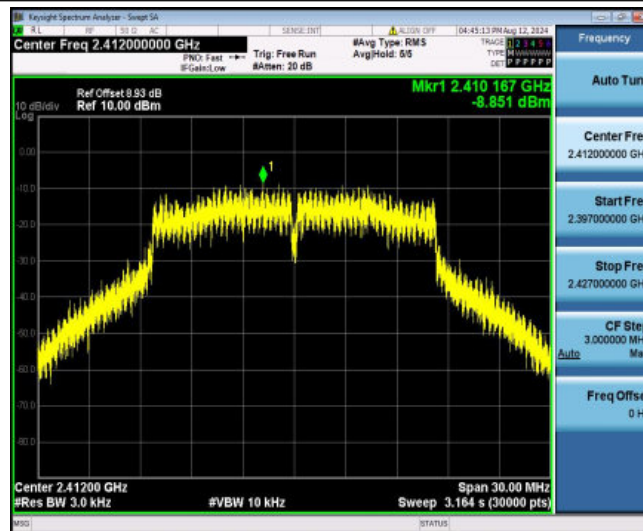
11B\_Ant1\_2437



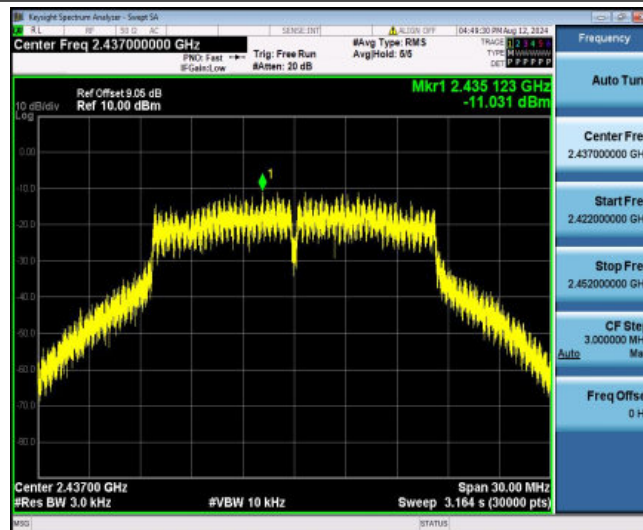
11B\_Ant1\_2462



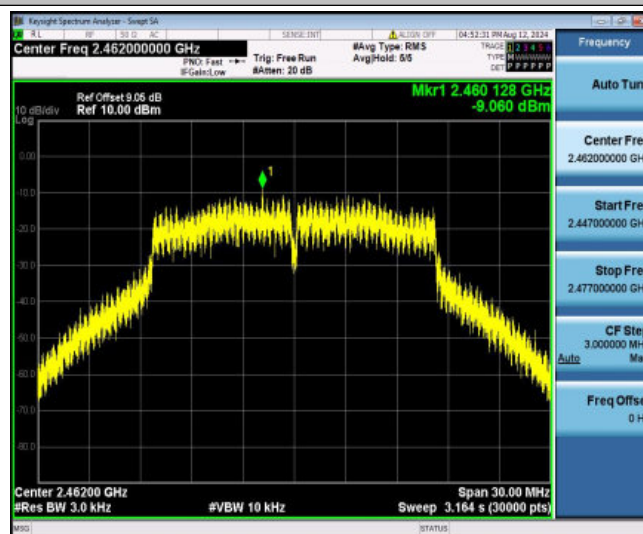
11G\_Ant1\_2412



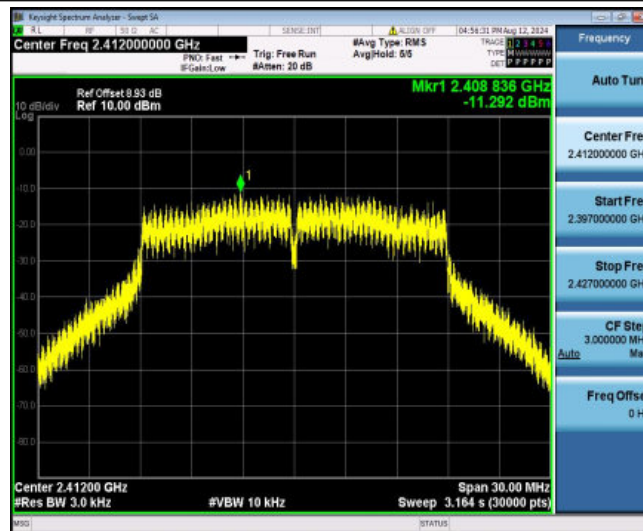
11G\_Ant1\_2437



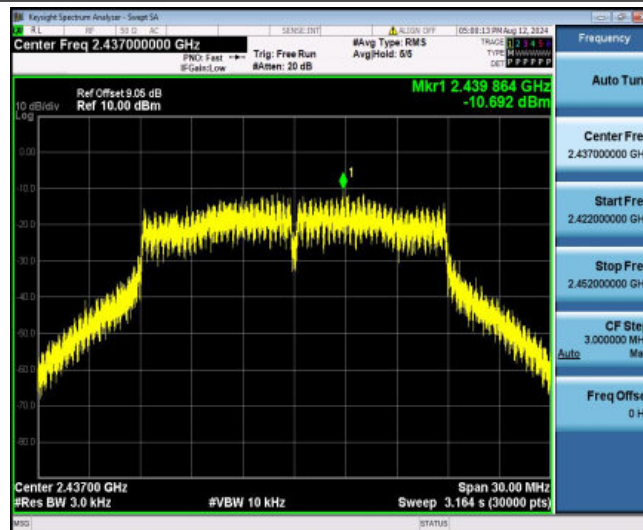
11G\_Ant1\_2462



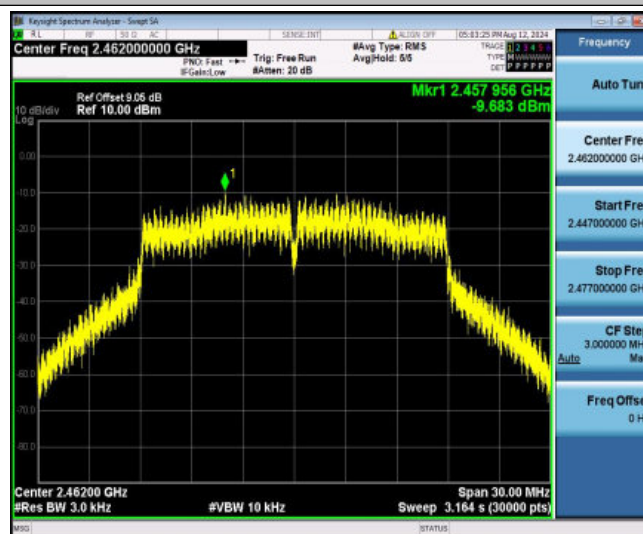
11N20SISO\_Ant1\_2412



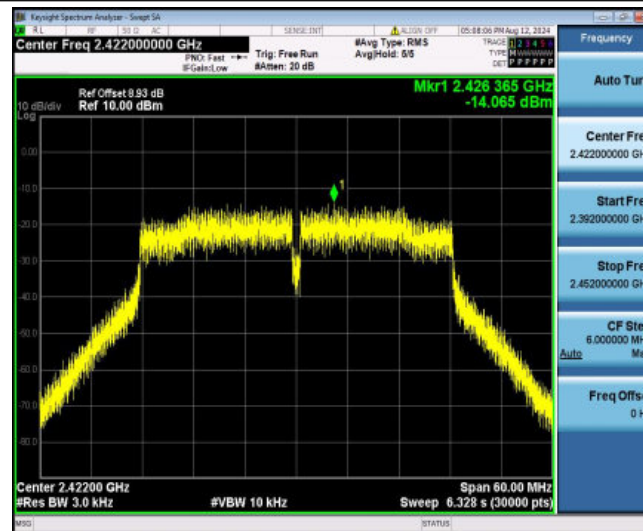
11N20SISO\_Ant1\_2437



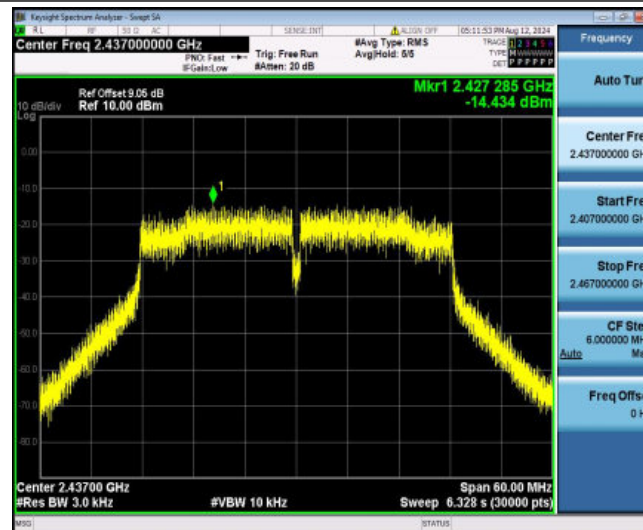
11N20SISO\_Ant1\_2462



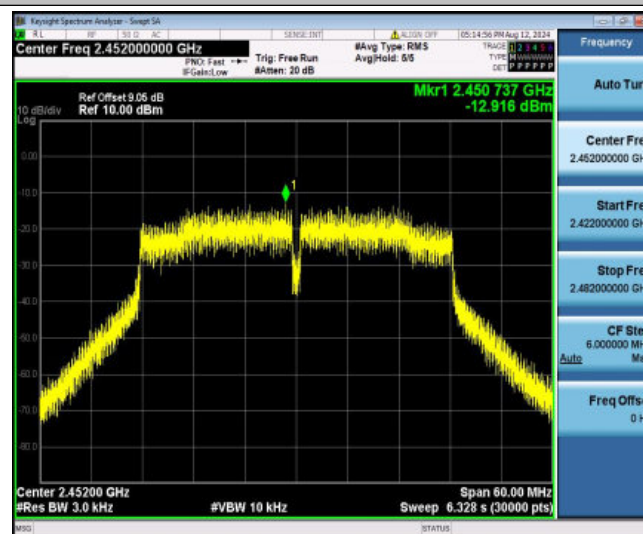
11N40SISO\_Ant1\_2422



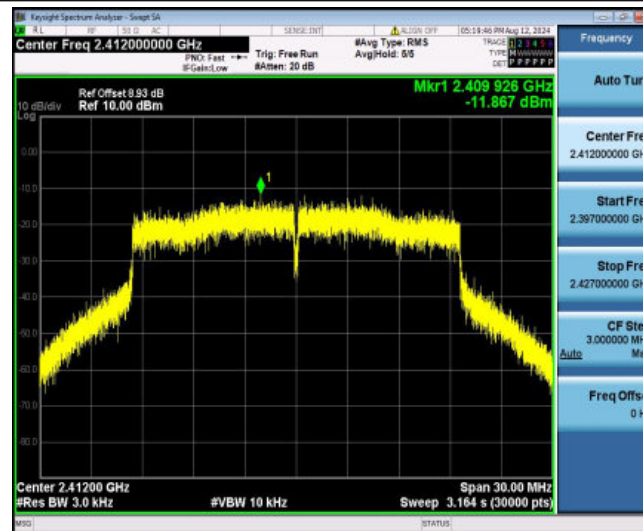
11N40SISO\_Ant1\_2437



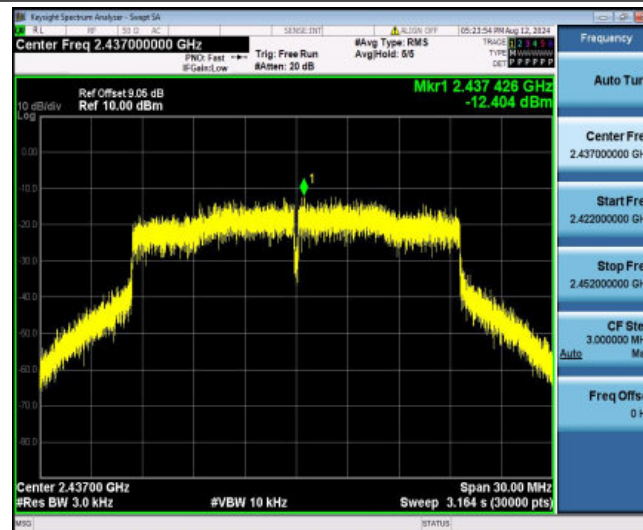
11N40SISO\_Ant1\_2452



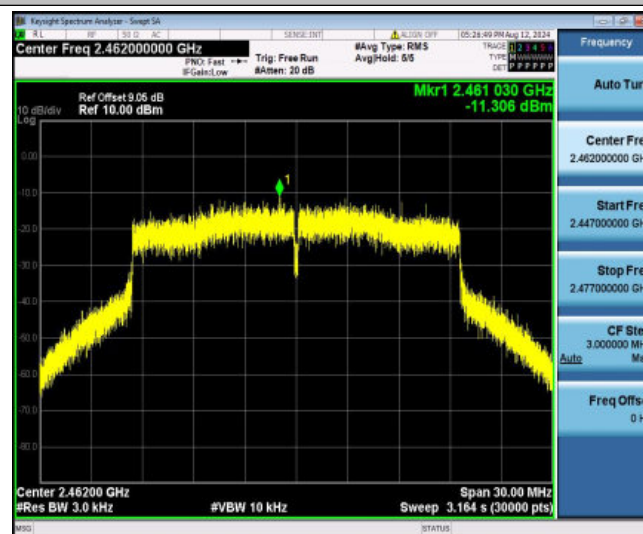
11AX20SISO\_Ant1\_2412



11AX20SISO\_Ant1\_2437



11AX20SISO\_Ant1\_2462



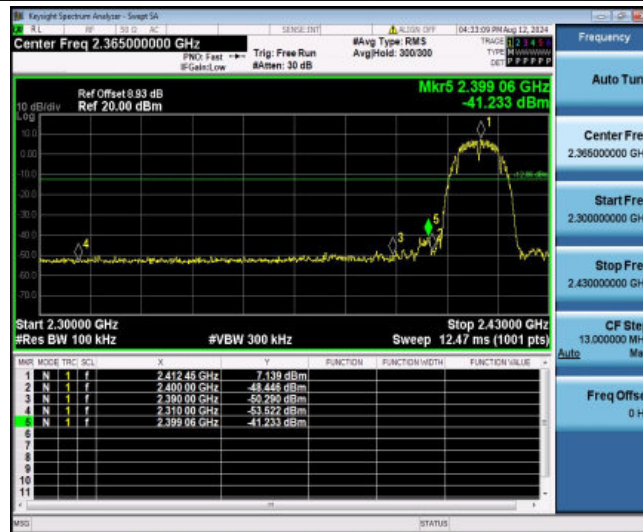
## Appendix B.5: Band edge measurements

### Test Result

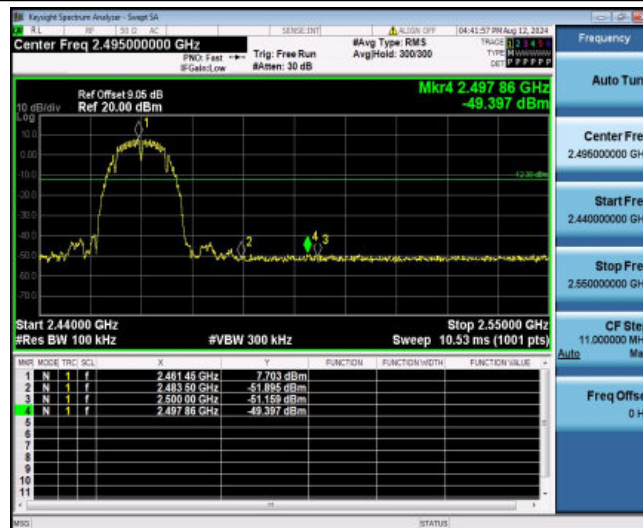
| TestMode   | Antenna | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm]    | Verdict |
|------------|---------|--------|----------------|---------------|-------------|---------------|---------|
| 11B        | Ant1    | Low    | 2412           | 7.14          | -41.23      | $\leq -12.86$ | PASS    |
|            |         | High   | 2462           | 7.70          | -49.4       | $\leq -12.3$  | PASS    |
| 11G        | Ant1    | Low    | 2412           | 6.68          | -23.51      | $\leq -13.32$ | PASS    |
|            |         | High   | 2462           | 4.80          | -48.84      | $\leq -15.2$  | PASS    |
| 11N20SISO  | Ant1    | Low    | 2412           | 3.69          | -25.52      | $\leq -16.31$ | PASS    |
|            |         | High   | 2462           | 3.67          | -48.98      | $\leq -16.33$ | PASS    |
| 11N40SISO  | Ant1    | Low    | 2422           | 0.68          | -30.31      | $\leq -19.32$ | PASS    |
|            |         | High   | 2452           | 0.16          | -45.1       | $\leq -19.84$ | PASS    |
| 11AX20SISO | Ant1    | Low    | 2412           | 3.27          | -26.3       | $\leq -16.73$ | PASS    |
|            |         | High   | 2462           | 3.58          | -48.91      | $\leq -16.42$ | PASS    |

## Test Graphs

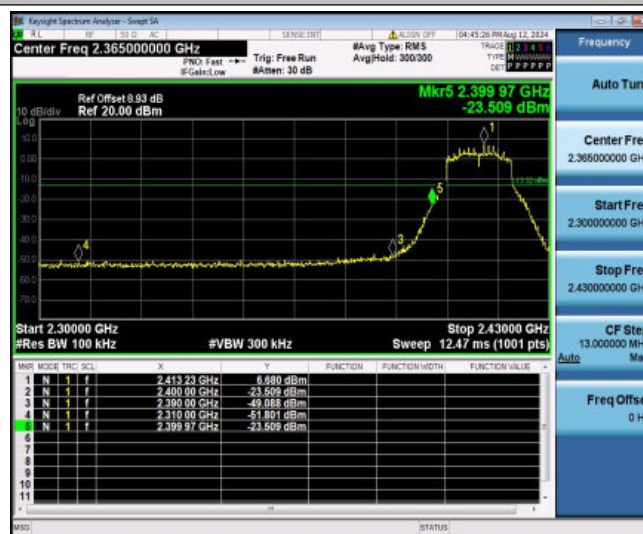
11B\_Ant1\_Low\_2412



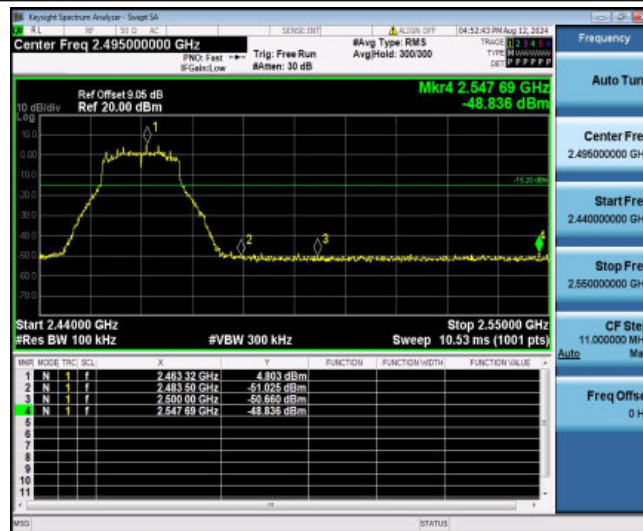
11B\_Ant1\_High\_2462



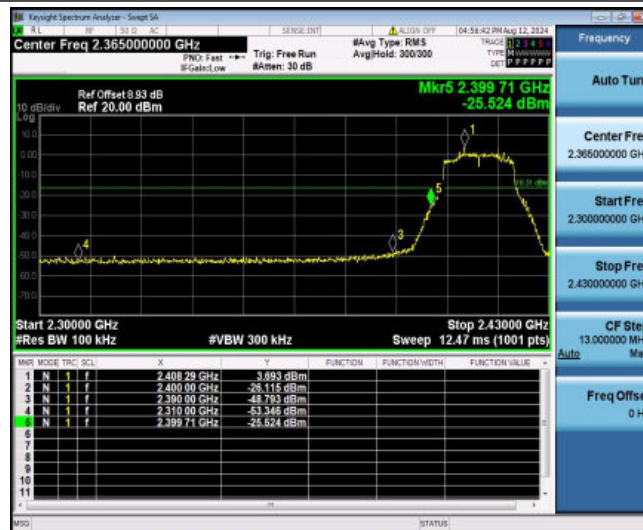
11G\_Ant1\_Low\_2412



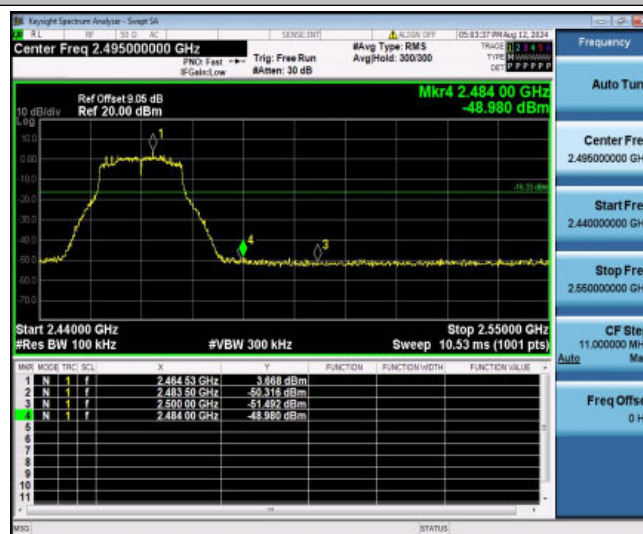
11G\_Ant1\_High\_2462



11N20SISO\_Ant1\_Low\_2412



11N20SISO\_Ant1\_High\_2462



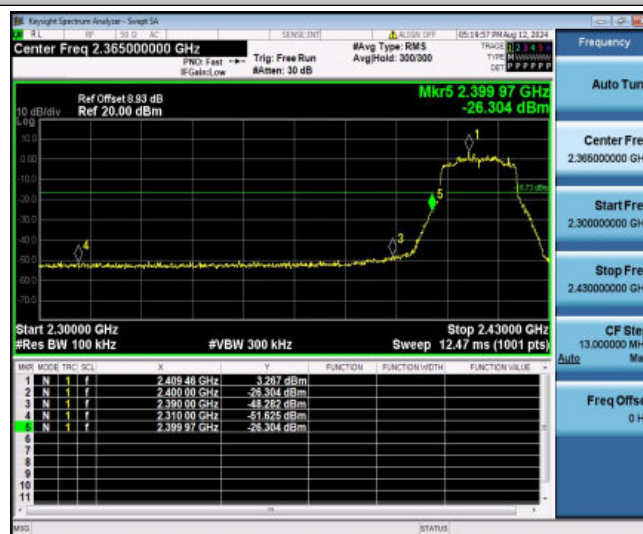
11N40SISO\_Ant1\_Low\_2422



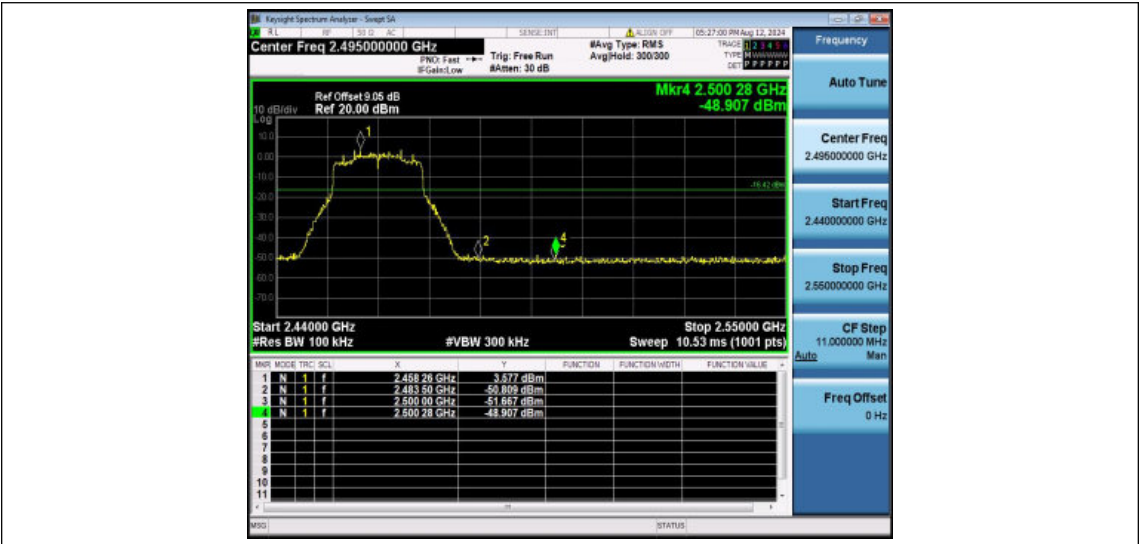
11N40SISO\_Ant1\_High\_2452



11AX20SISO\_Ant1\_Low\_2412



11AX20SISO\_Ant1\_High\_2462



## Appendix B.6: Conducted Spurious Emission

### Test Result

| TestMode   | Antenna | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|------------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| 11B        | Ant1    | 2412           | Reference       | 6.66           | 6.66         | ---         | PASS    |
|            |         |                | 30~1000         | 6.66           | -59.68       | ≤-13.34     | PASS    |
|            |         |                | 1000~26500      | 6.66           | -47.73       | ≤-13.34     | PASS    |
|            |         | 2437           | Reference       | 5.04           | 5.04         | ---         | PASS    |
|            |         |                | 30~1000         | 5.04           | -60.68       | ≤-14.96     | PASS    |
|            |         |                | 1000~26500      | 5.04           | -48.34       | ≤-14.96     | PASS    |
|            |         | 2462           | Reference       | 6.53           | 6.53         | ---         | PASS    |
|            |         |                | 30~1000         | 6.53           | -60.11       | ≤-13.47     | PASS    |
|            |         |                | 1000~26500      | 6.53           | -48.16       | ≤-13.47     | PASS    |
| 11G        | Ant1    | 2412           | Reference       | 4.99           | 4.99         | ---         | PASS    |
|            |         |                | 30~1000         | 4.99           | -52.36       | ≤-15.01     | PASS    |
|            |         |                | 1000~26500      | 4.99           | -48.28       | ≤-15.01     | PASS    |
|            |         | 2437           | Reference       | 2.23           | 2.23         | ---         | PASS    |
|            |         |                | 30~1000         | 2.23           | -58.63       | ≤-17.77     | PASS    |
|            |         |                | 1000~26500      | 2.23           | -48.04       | ≤-17.77     | PASS    |
|            |         | 2462           | Reference       | 3.85           | 3.85         | ---         | PASS    |
|            |         |                | 30~1000         | 3.85           | -60.17       | ≤-16.15     | PASS    |
|            |         |                | 1000~26500      | 3.85           | -47.6        | ≤-16.15     | PASS    |
| 11N20SISO  | Ant1    | 2412           | Reference       | 2.90           | 2.90         | ---         | PASS    |
|            |         |                | 30~1000         | 2.90           | -60.85       | ≤-17.1      | PASS    |
|            |         |                | 1000~26500      | 2.90           | -47.58       | ≤-17.1      | PASS    |
|            |         | 2437           | Reference       | 0.20           | 0.20         | ---         | PASS    |
|            |         |                | 30~1000         | 0.20           | -60.59       | ≤-19.8      | PASS    |
|            |         |                | 1000~26500      | 0.20           | -47.82       | ≤-19.8      | PASS    |
|            |         | 2462           | Reference       | 3.50           | 3.50         | ---         | PASS    |
|            |         |                | 30~1000         | 3.50           | -60.3        | ≤-16.5      | PASS    |
|            |         |                | 1000~26500      | 3.50           | -47.28       | ≤-16.5      | PASS    |
| 11N40SISO  | Ant1    | 2422           | Reference       | -3.23          | -3.23        | ---         | PASS    |
|            |         |                | 30~1000         | -3.23          | -60.48       | ≤-23.23     | PASS    |
|            |         |                | 1000~26500      | -3.23          | -46.86       | ≤-23.23     | PASS    |
|            |         | 2437           | Reference       | -3.00          | -3.00        | ---         | PASS    |
|            |         |                | 30~1000         | -3.00          | -60.69       | ≤-23        | PASS    |
|            |         |                | 1000~26500      | -3.00          | -47.79       | ≤-23        | PASS    |
|            |         | 2452           | Reference       | -2.40          | -2.40        | ---         | PASS    |
|            |         |                | 30~1000         | -2.40          | -59.97       | ≤-22.4      | PASS    |
|            |         |                | 1000~26500      | -2.40          | -47.34       | ≤-22.4      | PASS    |
| 11AX20SISO | Ant1    | 2412           | Reference       | 1.20           | 1.20         | ---         | PASS    |

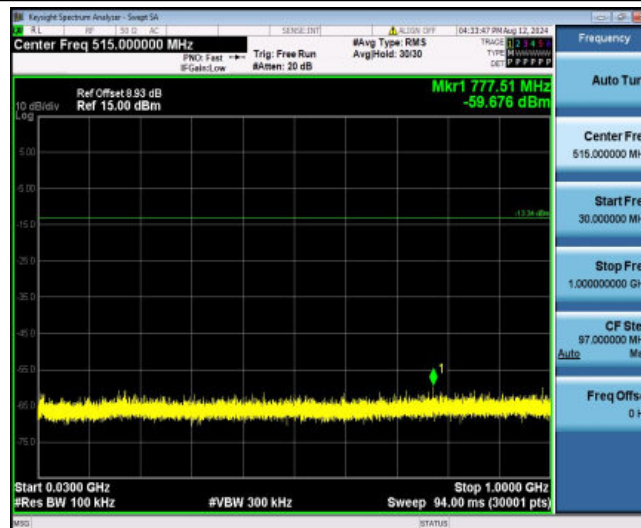
|  |  |      |            |       |        |               |      |
|--|--|------|------------|-------|--------|---------------|------|
|  |  |      | 30~1000    | 1.20  | -60.99 | $\leq -18.8$  | PASS |
|  |  |      | 1000~26500 | 1.20  | -47.91 | $\leq -18.8$  | PASS |
|  |  | 2437 | Reference  | -0.05 | -0.05  | ---           | PASS |
|  |  |      | 30~1000    | -0.05 | -60.43 | $\leq -20.05$ | PASS |
|  |  |      | 1000~26500 | -0.05 | -47.44 | $\leq -20.05$ | PASS |
|  |  | 2462 | Reference  | 0.26  | 0.26   | ---           | PASS |
|  |  |      | 30~1000    | 0.26  | -60.26 | $\leq -19.74$ | PASS |
|  |  |      | 1000~26500 | 0.26  | -47.72 | $\leq -19.74$ | PASS |

## Test Graphs

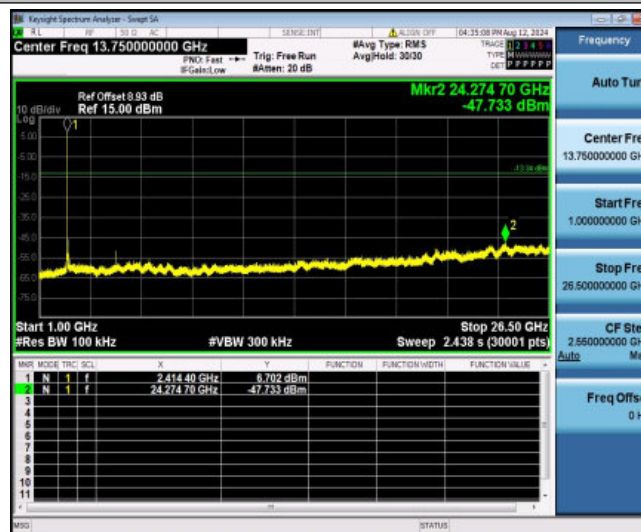
11B\_Ant1\_2412\_0~Reference



11B\_Ant1\_2412\_30~1000



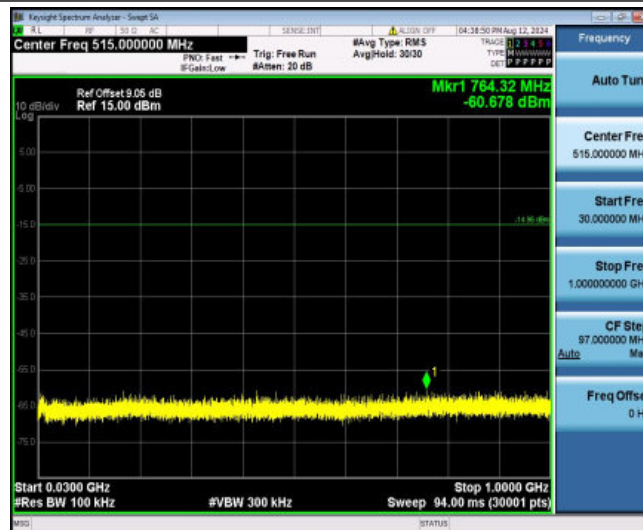
11B\_Ant1\_2412\_1000~26500



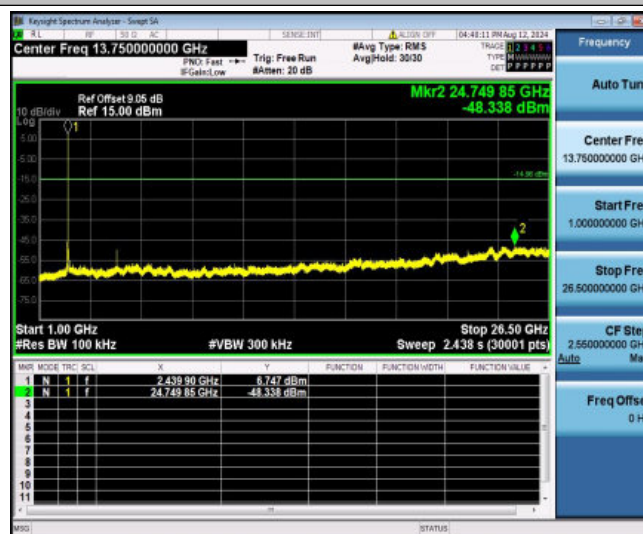
11B\_Ant1\_2437\_0~Reference



11B\_Ant1\_2437\_30~1000



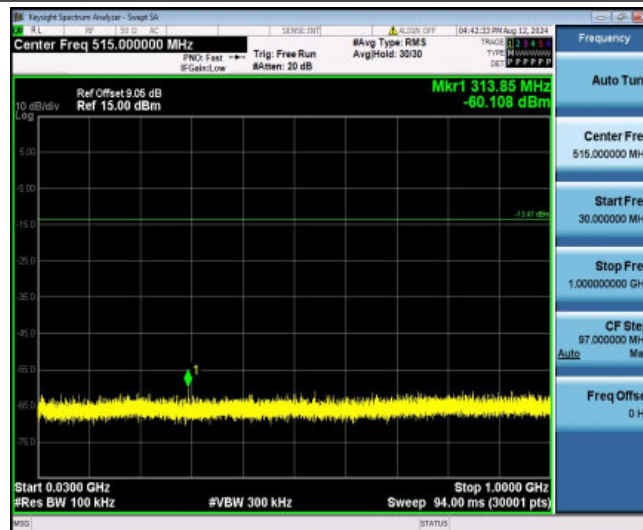
11B\_Ant1\_2437\_1000~26500



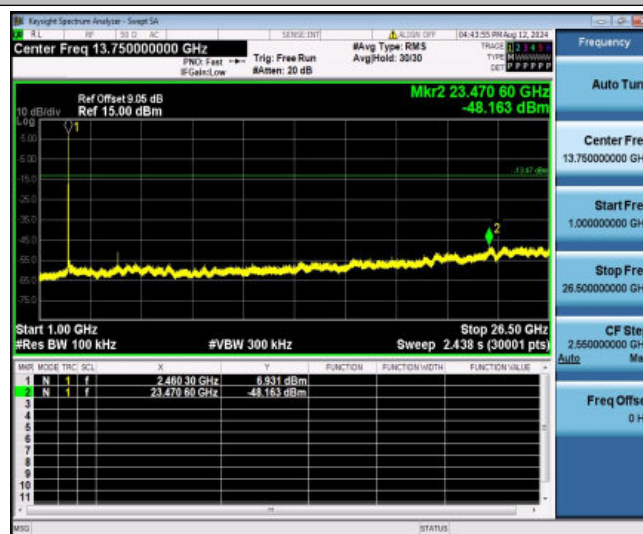
11B\_Ant1\_2462\_0~Reference



11B\_Ant1\_2462\_30~1000



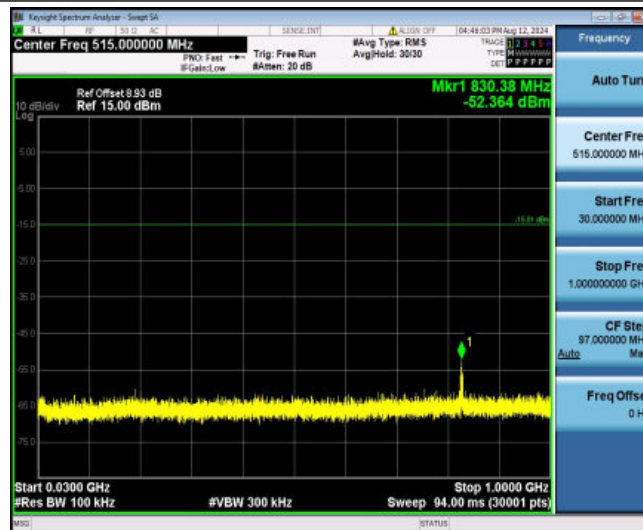
11B\_Ant1\_2462\_1000~26500



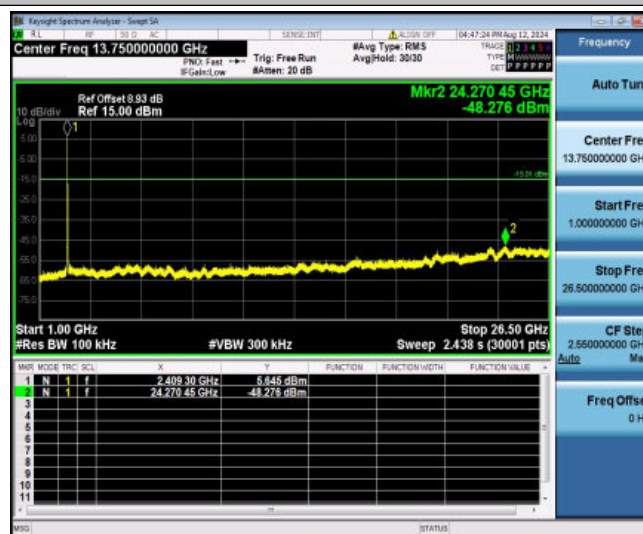
11G\_Ant1\_2412\_0~Reference



11G\_Ant1\_2412\_30~1000



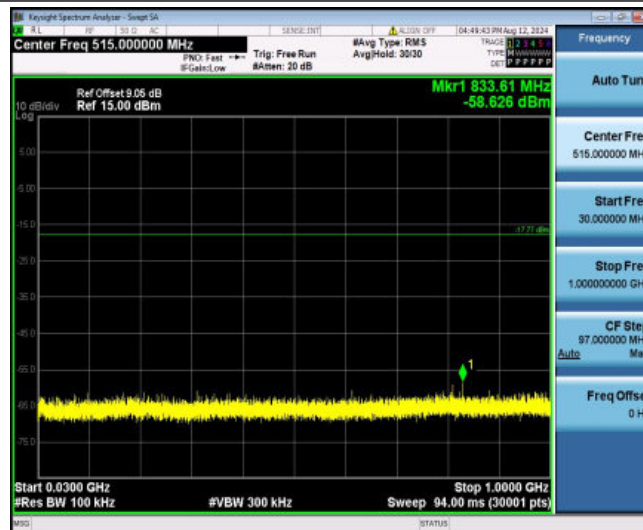
11G\_Ant1\_2412\_1000~26500



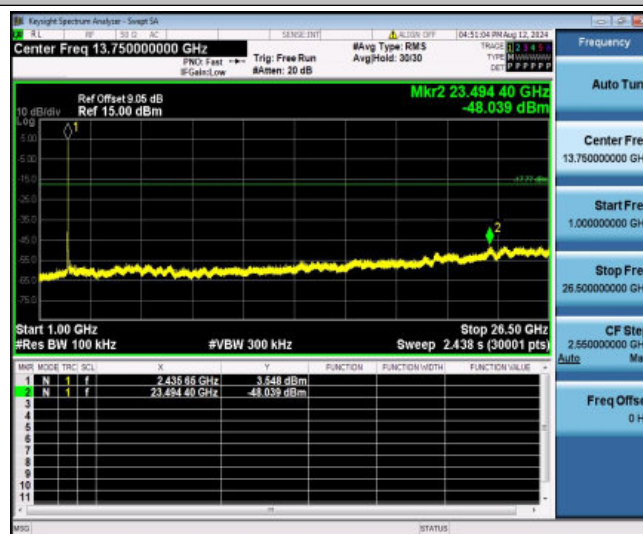
11G\_Ant1\_2437\_0~Reference



11G\_Ant1\_2437\_30~1000



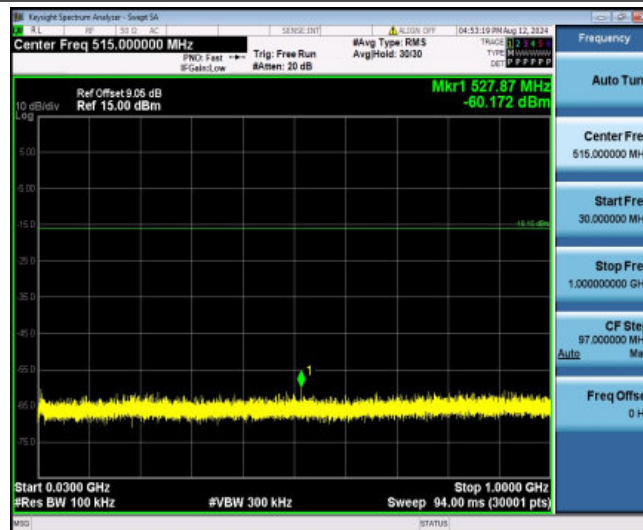
11G\_Ant1\_2437\_1000~26500



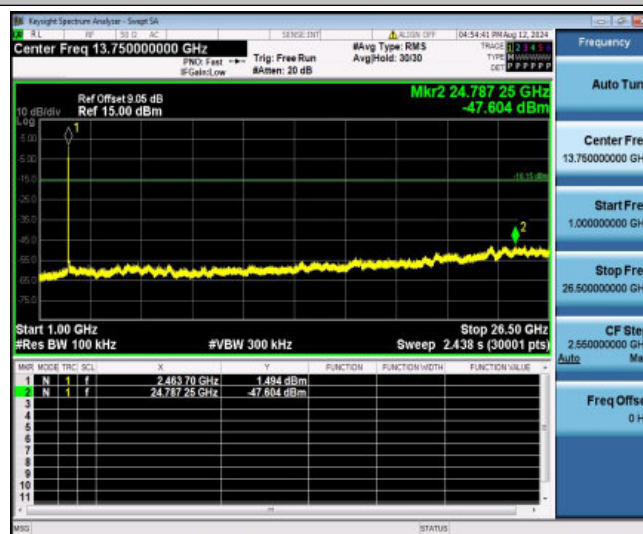
11G\_Ant1\_2462\_0~Reference



11G\_Ant1\_2462\_30~1000



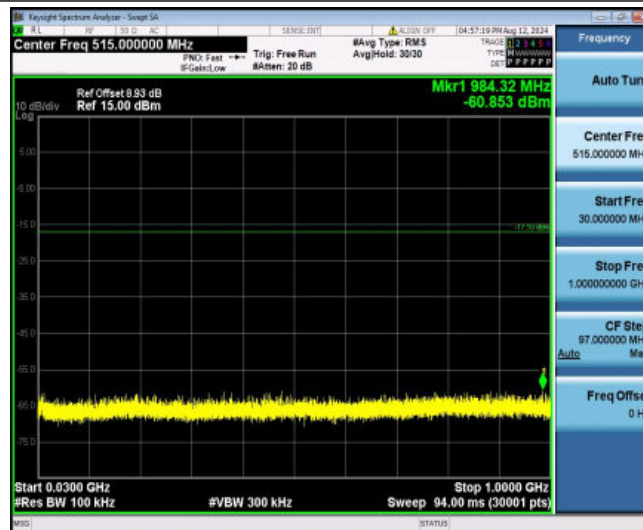
11G\_Ant1\_2462\_1000~26500



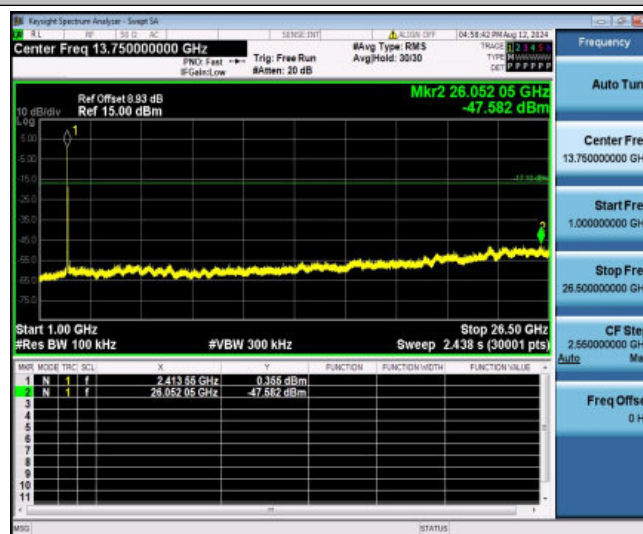
11N20SISO\_Ant1\_2412\_0~Reference



11N20SISO\_Ant1\_2412\_30~1000



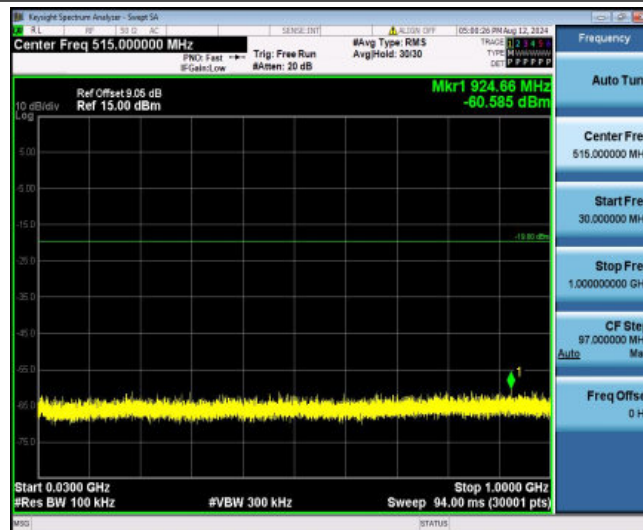
11N20SISO\_Ant1\_2412\_1000~26500



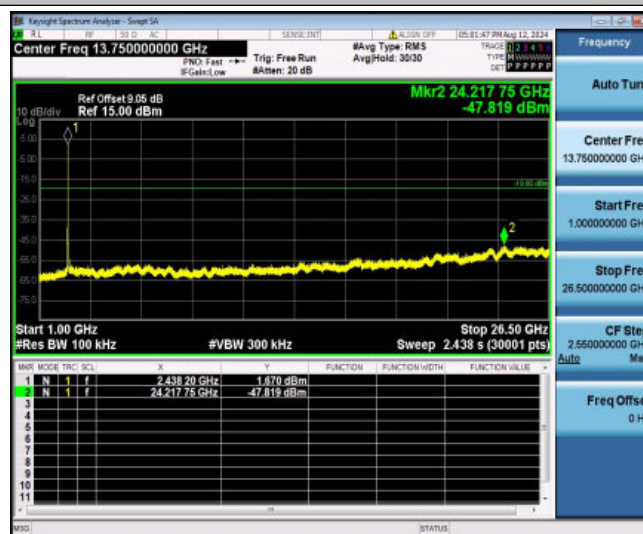
11N20SISO\_Ant1\_2437\_0~Reference



11N20SISO\_Ant1\_2437\_30~1000



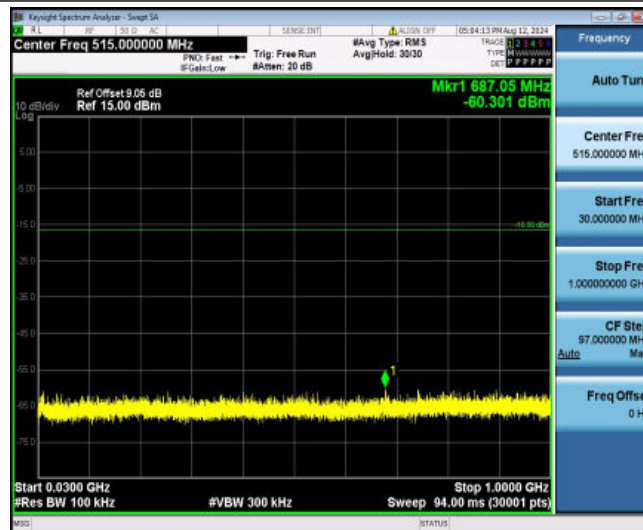
11N20SISO\_Ant1\_2437\_1000~26500



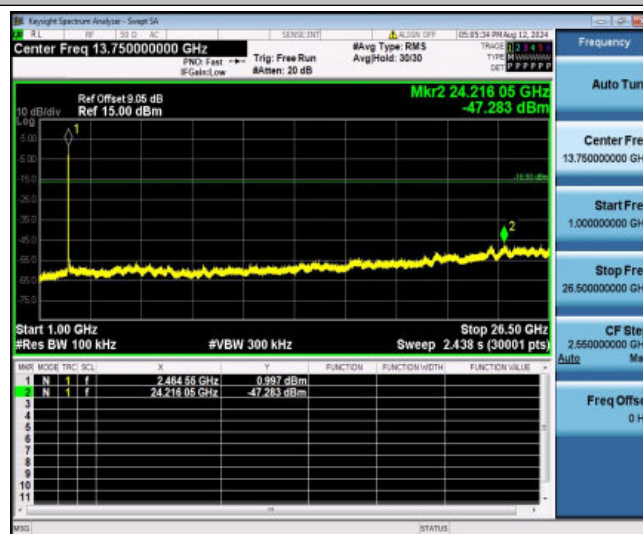
11N20SISO\_Ant1\_2462\_0~Reference



11N20SISO\_Ant1\_2462\_30~1000



11N20SISO\_Ant1\_2462\_1000~26500



11N40SISO\_Ant1\_2422\_0~Reference