

## **FCC Appendix RF Test Data for 2.4GWIFI**

**FCC ID** : 2A9YM-SHESL-79-9RA

**Company** : Guangdong SID Technology Co.,Ltd.

**EUT** : 10.1inch TFT Color Screen Label(Dual Screen)

**Model Number** : SHESL-79-9RA

**Report No.** : CTA25112600501

**Reviewed By** : Eric Wang

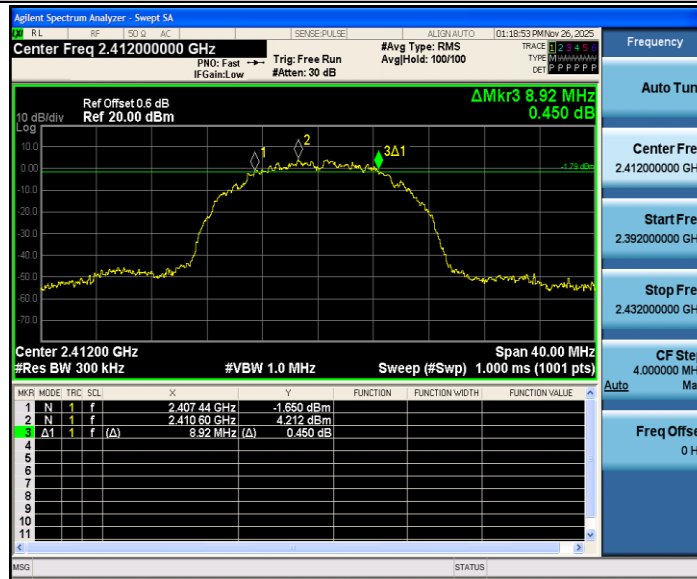
## Appendix A: DTS Bandwidth

### Test Result

| TestMode  | Antenna | Frequency[MHz] | DTS BW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|-----------------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412           | 8.920           | 2407.440 | 2416.360 | 0.5        | PASS    |
|           |         | 2437           | 9.480           | 2432.120 | 2441.600 | 0.5        | PASS    |
|           |         | 2462           | 9.040           | 2457.600 | 2466.640 | 0.5        | PASS    |
| 11G       | Ant1    | 2412           | 16.320          | 2403.920 | 2420.240 | 0.5        | PASS    |
|           |         | 2437           | 16.360          | 2428.880 | 2445.240 | 0.5        | PASS    |
|           |         | 2462           | 16.360          | 2453.880 | 2470.240 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 2412           | 17.320          | 2403.400 | 2420.720 | 0.5        | PASS    |
|           |         | 2437           | 17.280          | 2428.360 | 2445.640 | 0.5        | PASS    |
|           |         | 2462           | 17.160          | 2453.480 | 2470.640 | 0.5        | PASS    |
| 11N40SISO | Ant1    | 2422           | 33.760          | 2405.440 | 2439.200 | 0.5        | PASS    |
|           |         | 2437           | 33.840          | 2420.280 | 2454.120 | 0.5        | PASS    |
|           |         | 2452           | 33.840          | 2435.200 | 2469.040 | 0.5        | PASS    |

## Test Graphs

11B\_Ant1\_2412



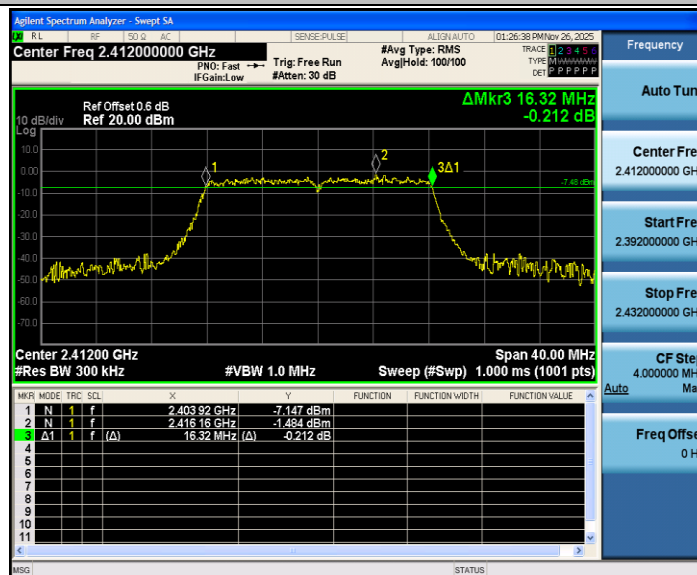
11B\_Ant1\_2437



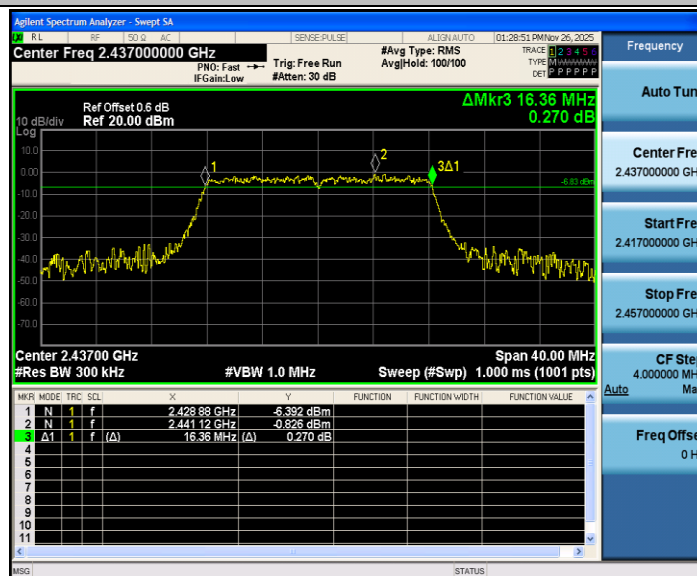
11B\_Ant1\_2462



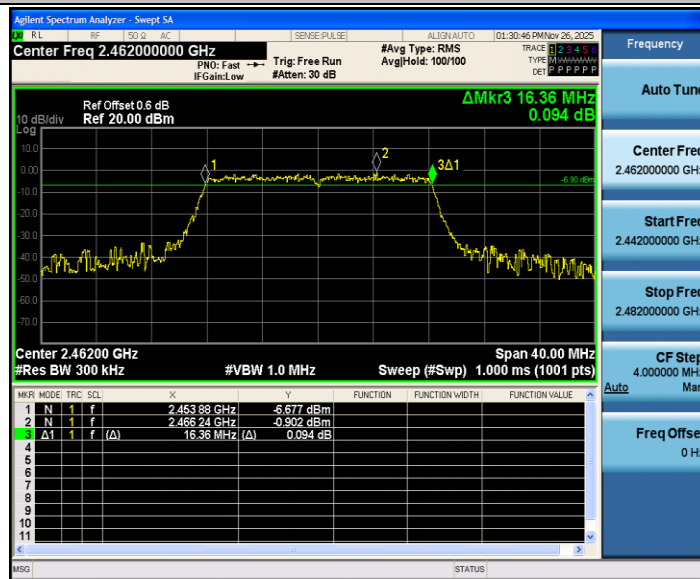
11G\_Ant1\_2412



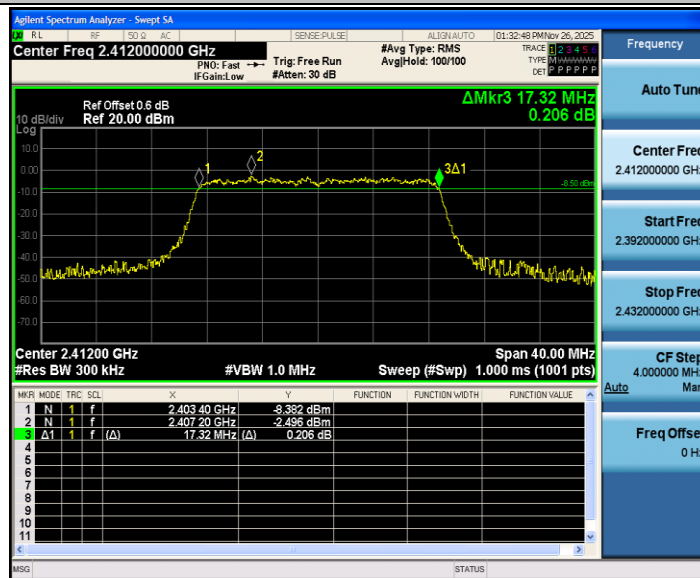
11G\_Ant1\_2437



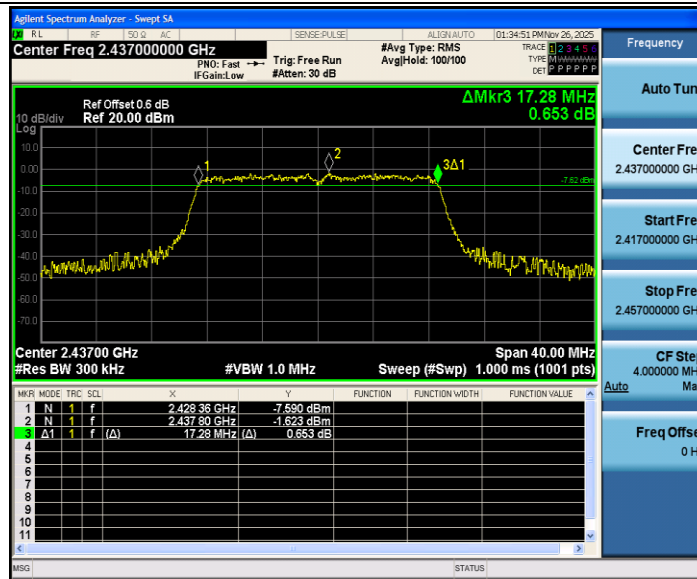
# 11G\_Ant1\_2462



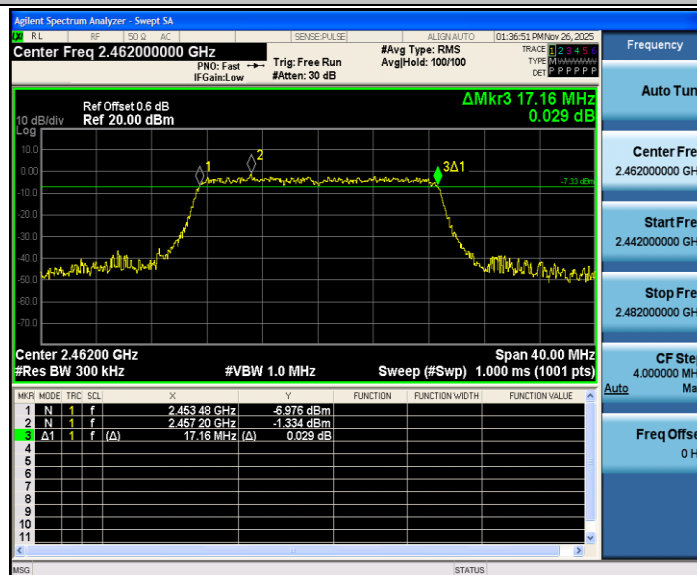
# 11N20SISO\_Ant1\_2412



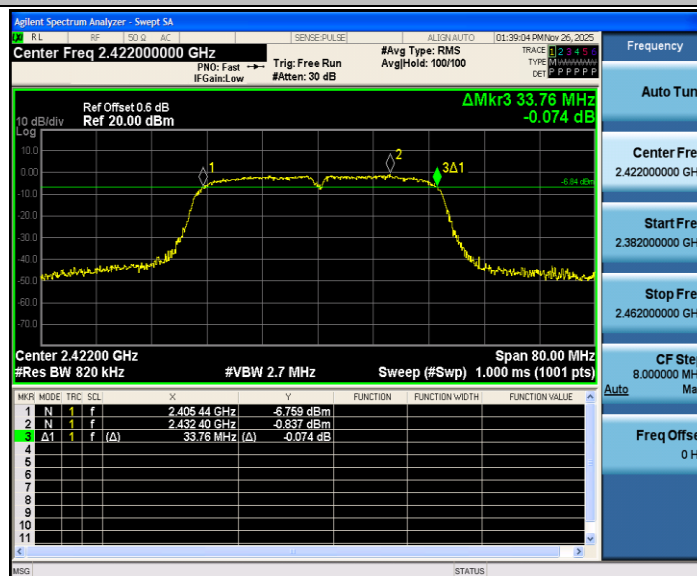
# 11N20SISO\_Ant1\_2437



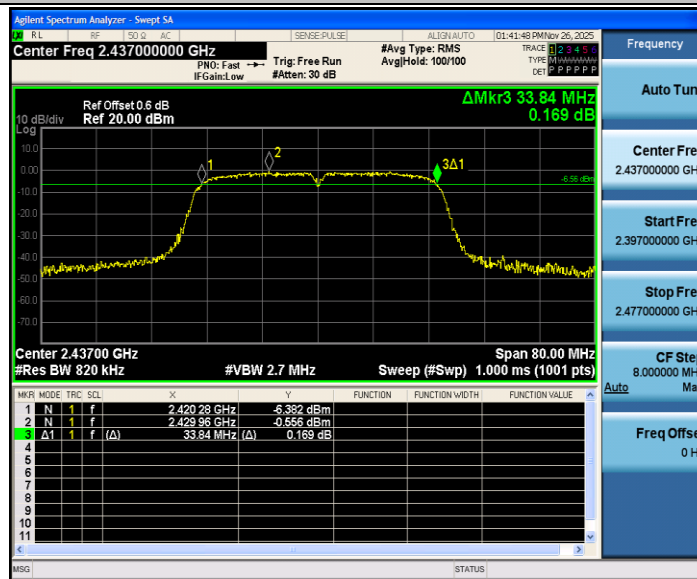
11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422



# 11N40SISO\_Ant1\_2437



# 11N40SISO\_Ant1\_2452



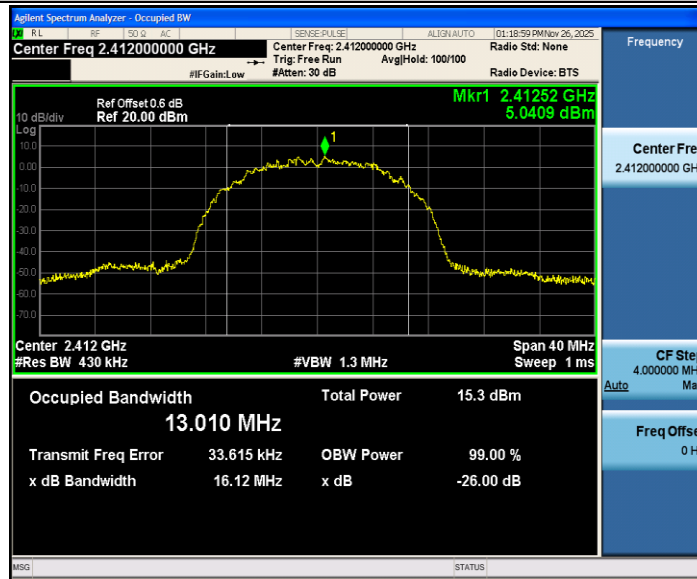
## Appendix B: Occupied Channel Bandwidth

### Test Result

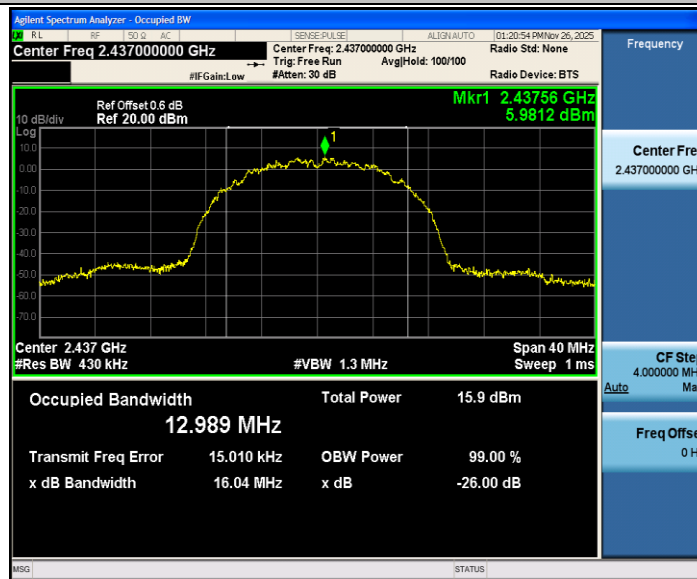
| TestMode  | Antenna | Channel Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|------------------------|-----------|-----------|-----------|------------|---------|
| 11B       | Ant1    | 2412                   | 13.010    | 2405.5286 | 2418.5386 | ---        | ---     |
|           |         | 2437                   | 12.989    | 2430.5205 | 2443.5095 | ---        | ---     |
|           |         | 2462                   | 12.993    | 2455.4911 | 2468.4841 | ---        | ---     |
| 11G       | Ant1    | 2412                   | 16.535    | 2403.7865 | 2420.3215 | ---        | ---     |
|           |         | 2437                   | 16.572    | 2428.7509 | 2445.3229 | ---        | ---     |
|           |         | 2462                   | 16.599    | 2453.7184 | 2470.3174 | ---        | ---     |
| 11N20SISO | Ant1    | 2412                   | 17.453    | 2403.3297 | 2420.7827 | ---        | ---     |
|           |         | 2437                   | 17.443    | 2428.3176 | 2445.7606 | ---        | ---     |
|           |         | 2462                   | 17.448    | 2453.3083 | 2470.7563 | ---        | ---     |
| 11N40SISO | Ant1    | 2422                   | 34.829    | 2404.7469 | 2439.5759 | ---        | ---     |
|           |         | 2437                   | 34.879    | 2419.7014 | 2454.5804 | ---        | ---     |
|           |         | 2452                   | 34.776    | 2434.6972 | 2469.4732 | ---        | ---     |

## Test Graphs

11B\_Ant1\_2412



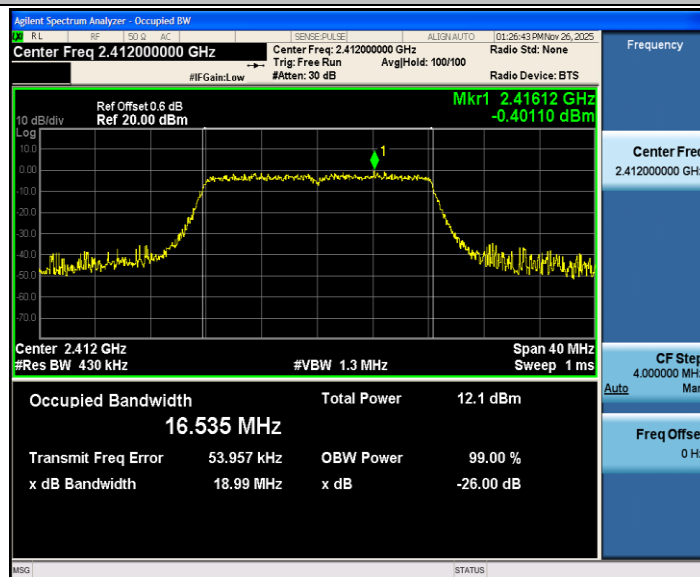
11B\_Ant1\_2437



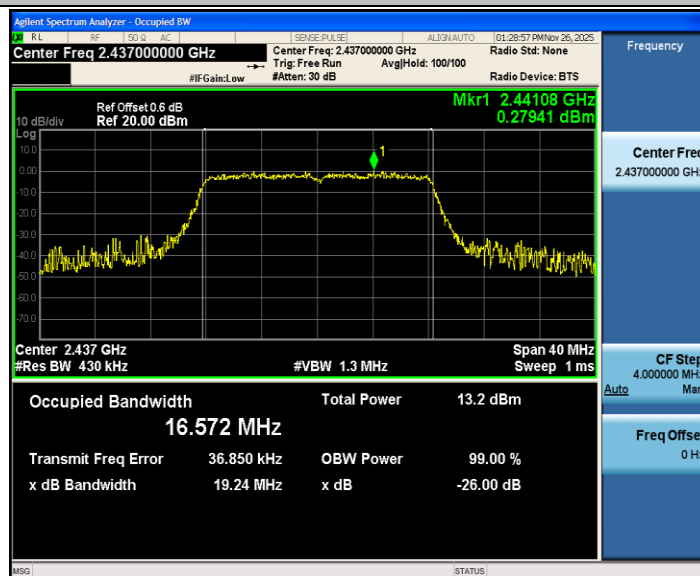
11B\_Ant1\_2462



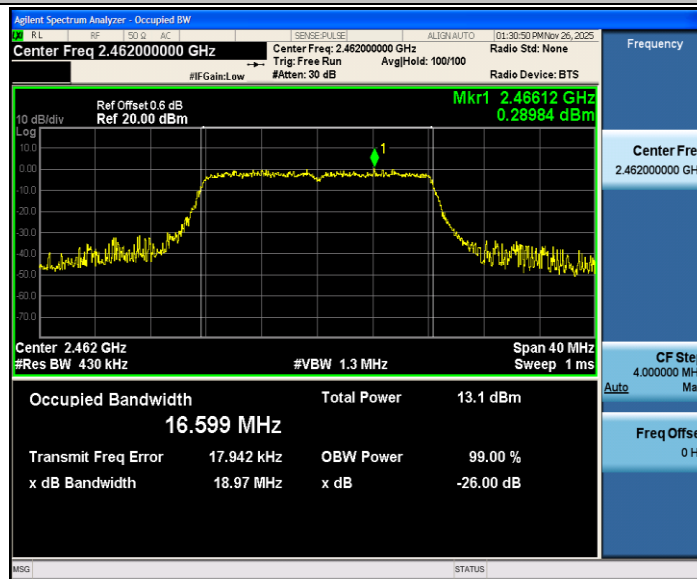
11G\_Ant1\_2412



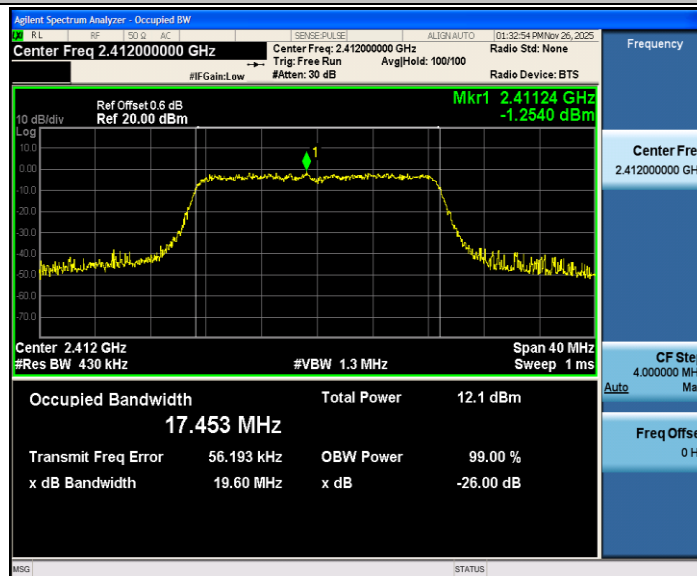
11G\_Ant1\_2437



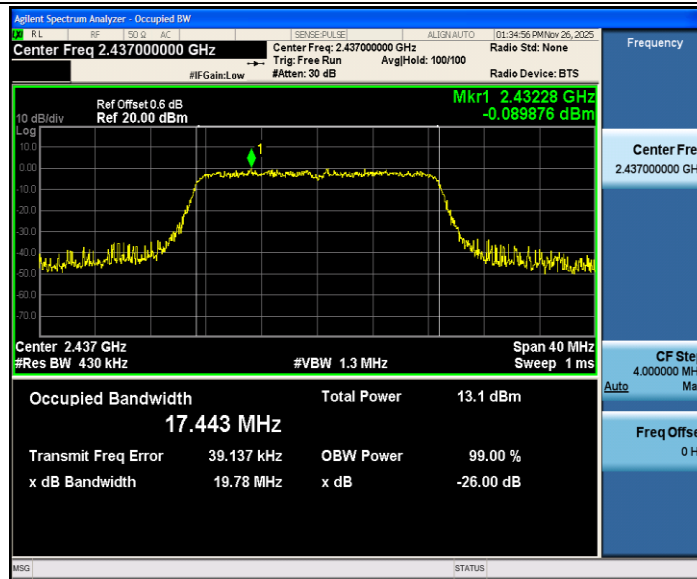
# 11G\_Ant1\_2462



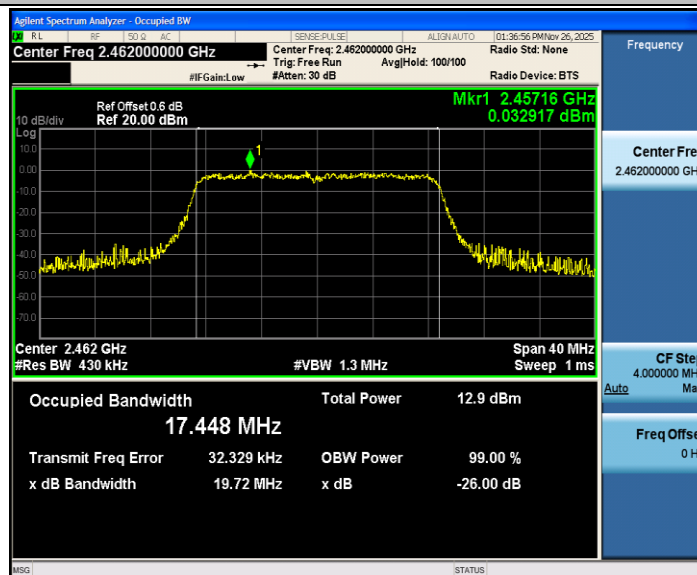
# 11N20SISO\_Ant1\_2412



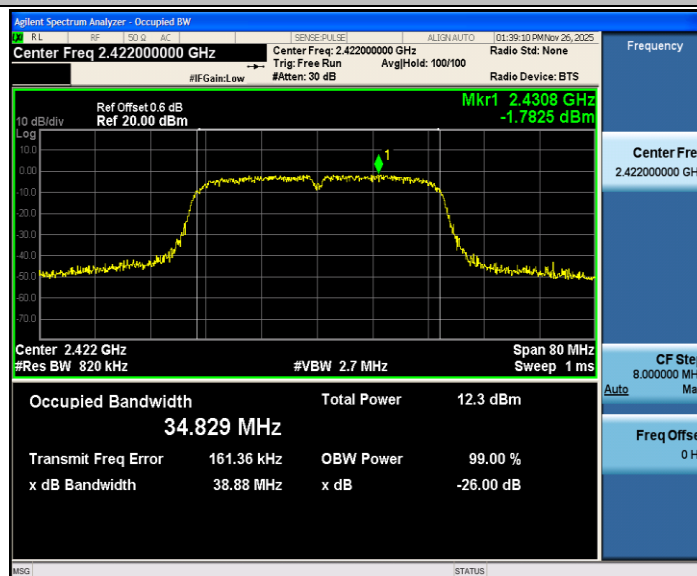
# 11N20SISO\_Ant1\_2437



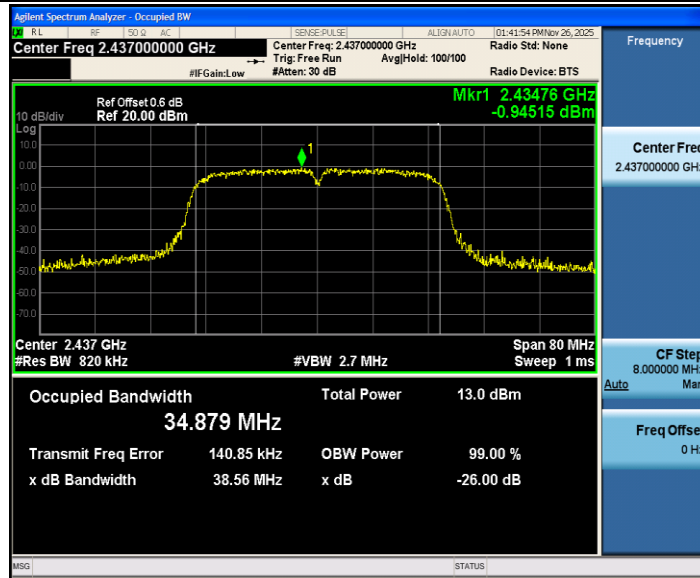
11N20SISO\_Ant1\_2462



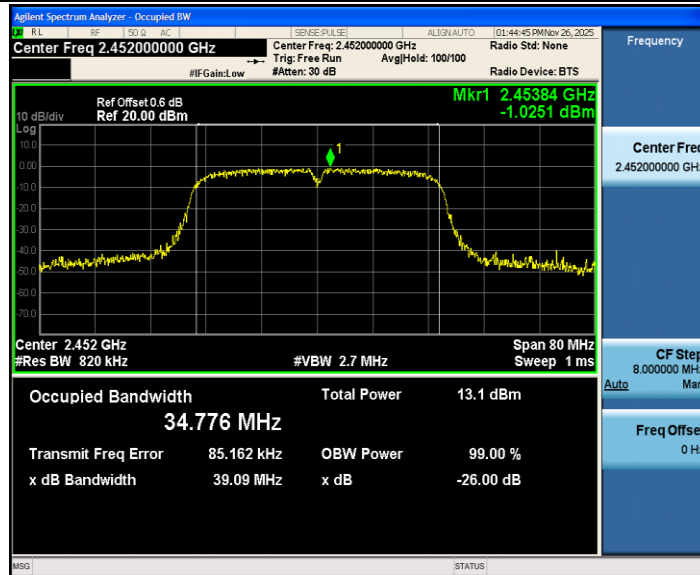
11N40SISO\_Ant1\_2422



# 11N40SISO\_Ant1\_2437



# 11N40SISO\_Ant1\_2452



## Appendix C: Maximum conducted output power

### Test Result Peak

| Test Mode | Antenna | Frequency[MHz] | Peak power [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|------------------|-------------|---------|
| 11B       | Ant1    | 2412           | 14.89            | ≤30.00      | PASS    |
|           |         | 2437           | 15.56            | ≤30.00      | PASS    |
|           |         | 2462           | 15.36            | ≤30.00      | PASS    |
| 11G       | Ant1    | 2412           | 13.06            | ≤30.00      | PASS    |
|           |         | 2437           | 14.01            | ≤30.00      | PASS    |
|           |         | 2462           | 13.90            | ≤30.00      | PASS    |
| 11N20SISO | Ant1    | 2412           | 13.21            | ≤30.00      | PASS    |
|           |         | 2437           | 14.26            | ≤30.00      | PASS    |
|           |         | 2462           | 14.02            | ≤30.00      | PASS    |
| 11N40SISO | Ant1    | 2422           | 12.54            | ≤30.00      | PASS    |
|           |         | 2437           | 13.24            | ≤30.00      | PASS    |
|           |         | 2452           | 13.32            | ≤30.00      | PASS    |

## Appendix D: Maximum power spectral density

### Test Result

| TestMode  | Antenna | Frequency[MHz] | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|----------------|----------------------|-----------------|---------|
| 11B       | Ant1    | 2412           | -14.67               | ≤8.00           | PASS    |
|           |         | 2437           | -13.37               | ≤8.00           | PASS    |
|           |         | 2462           | -13.42               | ≤8.00           | PASS    |
| 11G       | Ant1    | 2412           | -21.50               | ≤8.00           | PASS    |
|           |         | 2437           | -20.32               | ≤8.00           | PASS    |
|           |         | 2462           | -20.53               | ≤8.00           | PASS    |
| 11N20SISO | Ant1    | 2412           | -21.35               | ≤8.00           | PASS    |
|           |         | 2437           | -20.27               | ≤8.00           | PASS    |
|           |         | 2462           | -20.36               | ≤8.00           | PASS    |
| 11N40SISO | Ant1    | 2422           | -22.70               | ≤8.00           | PASS    |
|           |         | 2437           | -21.85               | ≤8.00           | PASS    |
|           |         | 2452           | -21.34               | ≤8.00           | PASS    |

## Test Graphs

11B\_Ant1\_2412



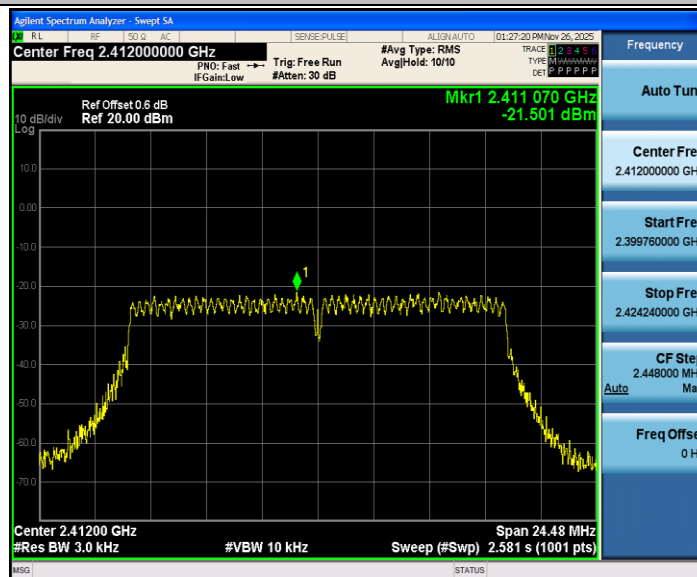
11B\_Ant1\_2437



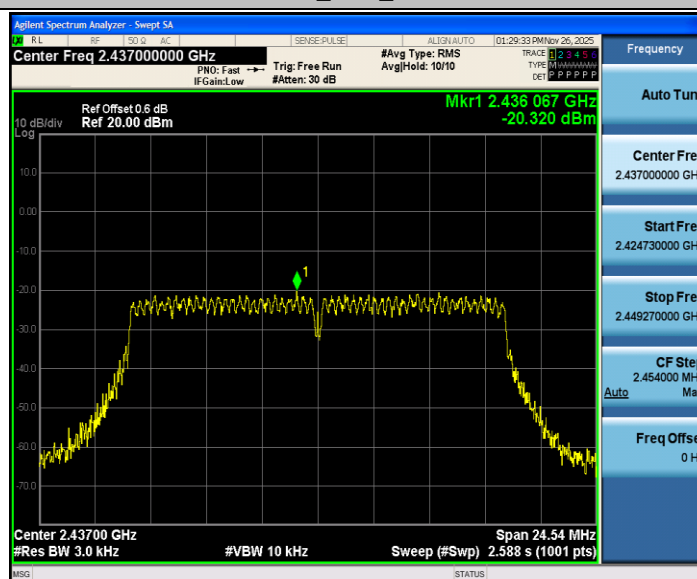
11B\_Ant1\_2462



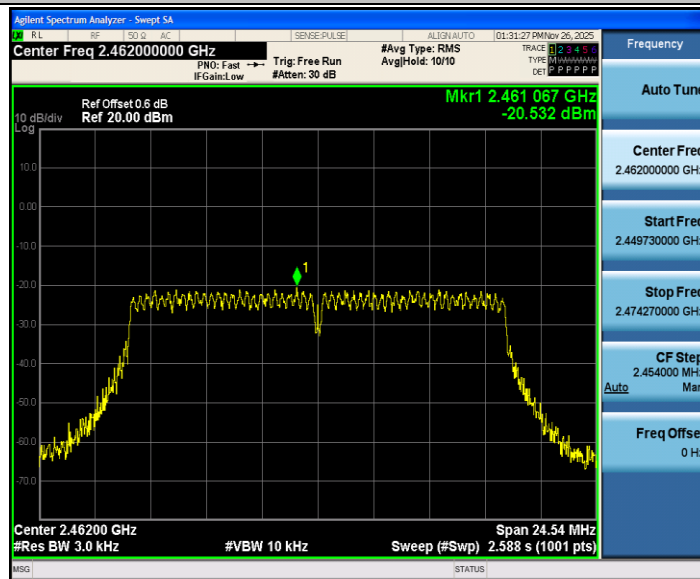
11G\_Ant1\_2412



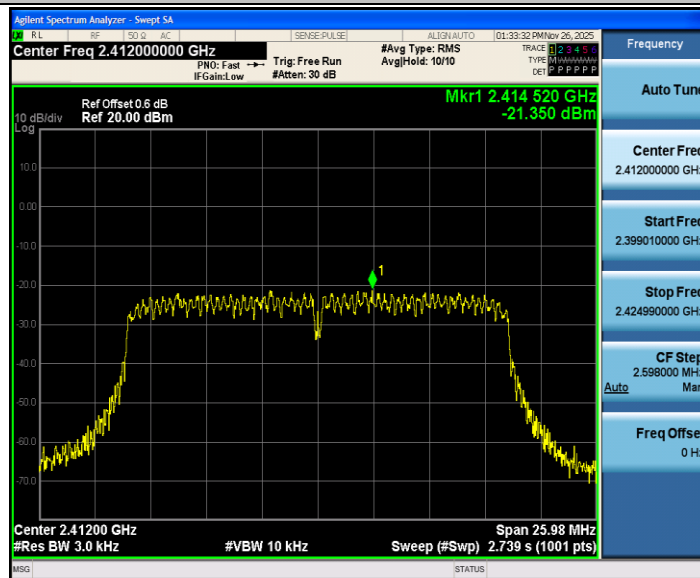
11G\_Ant1\_2437



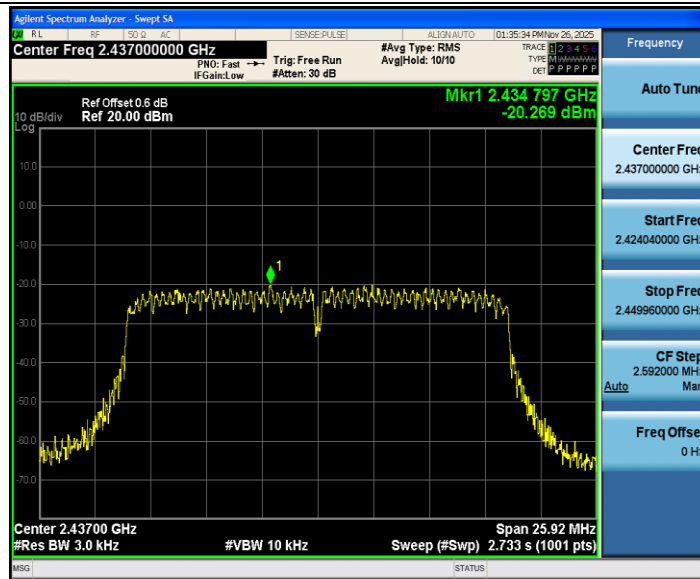
# 11G\_Ant1\_2462



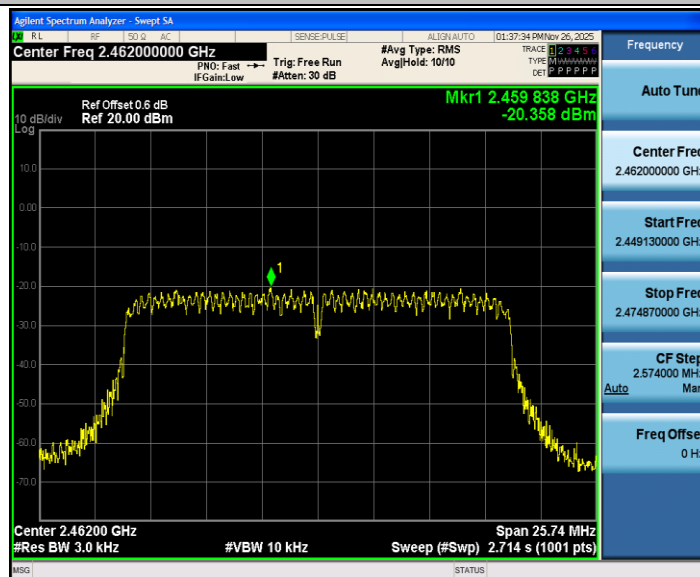
# 11N20SISO\_Ant1\_2412



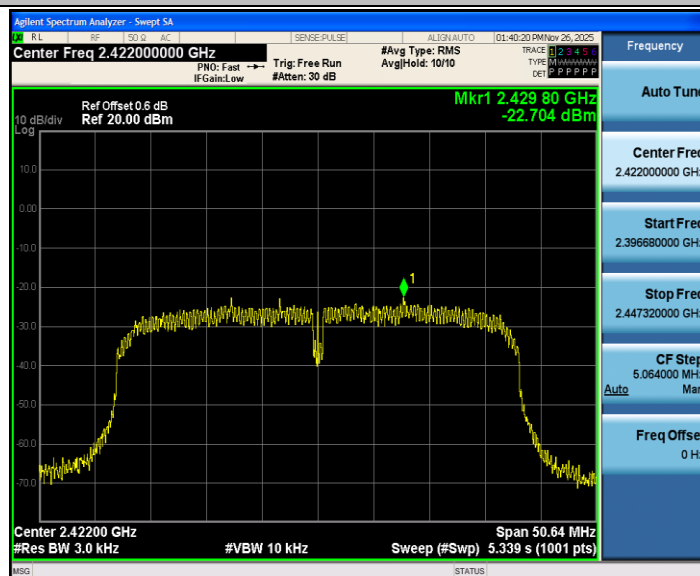
# 11N20SISO\_Ant1\_2437



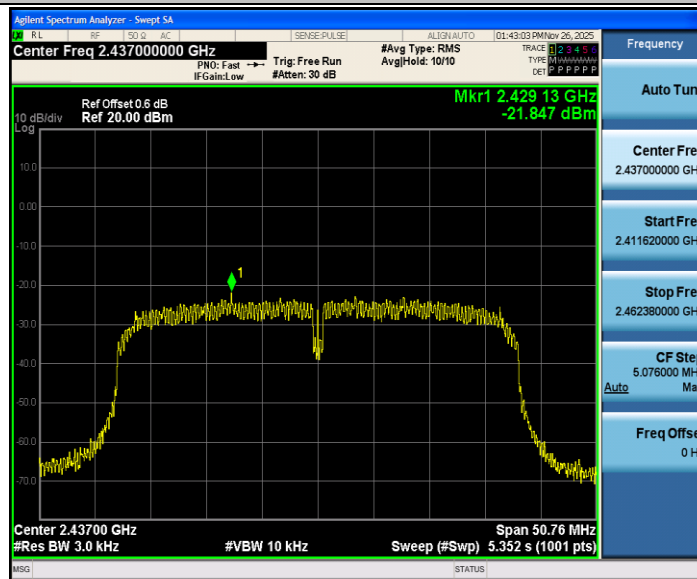
11N20SISO\_Ant1\_2462



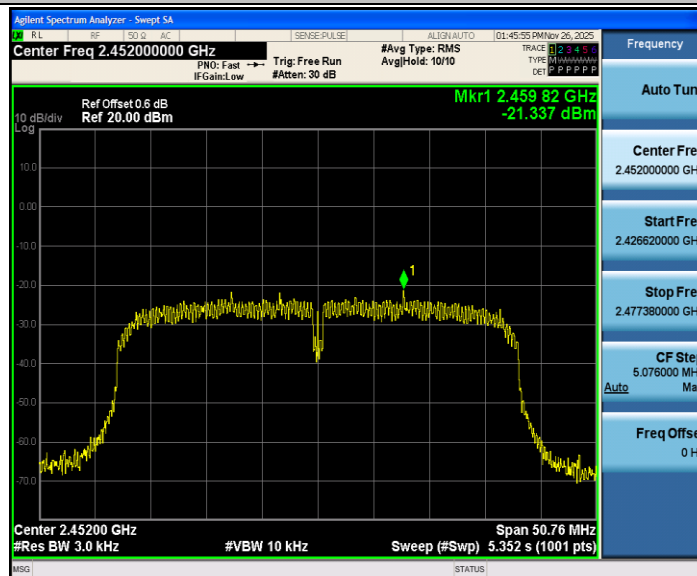
11N40SISO\_Ant1\_2422



# 11N40SISO\_Ant1\_2437



# 11N40SISO\_Ant1\_2452



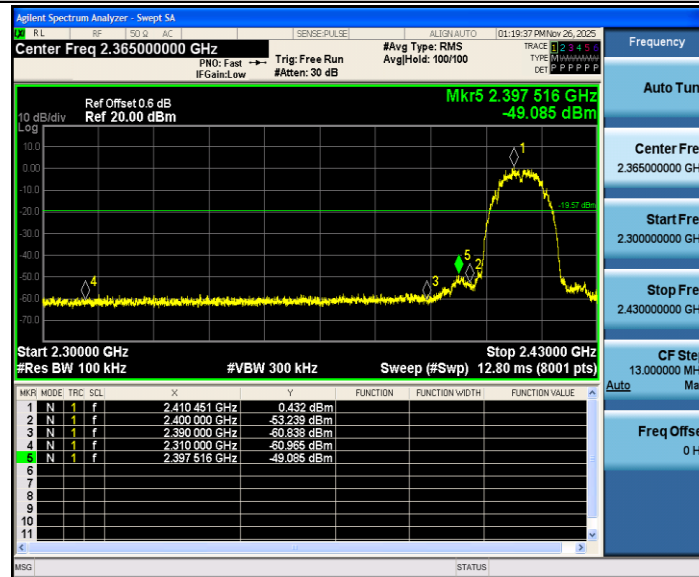
## Appendix E: Band edge measurements

### Test Result

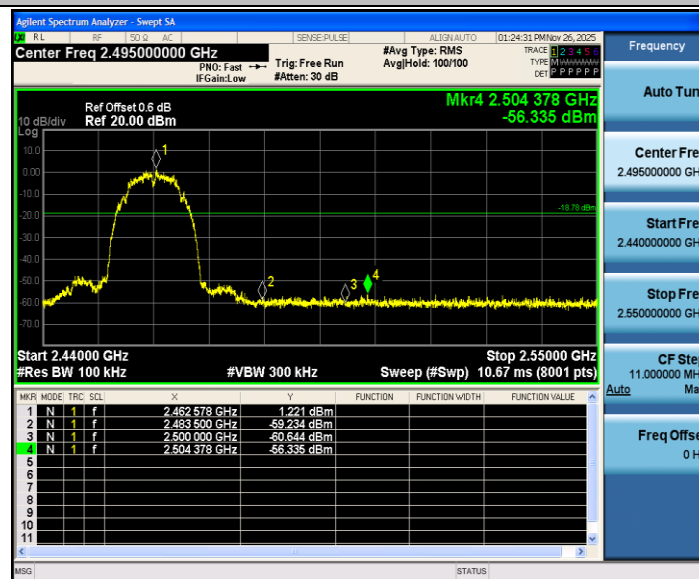
| TestMode  | Antenna | Channel Name | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------------|----------------|---------------|-------------|------------|---------|
| 11B       | Ant1    | Low          | 2412           | 0.43          | -49.09      | ≤-19.57    | PASS    |
|           |         | High         | 2462           | 1.22          | -56.34      | ≤-18.78    | PASS    |
| 11G       | Ant1    | Low          | 2412           | -7.12         | -45.5       | ≤-27.12    | PASS    |
|           |         | High         | 2462           | -6.50         | -51.26      | ≤-26.5     | PASS    |
| 11N20SISO | Ant1    | Low          | 2412           | -7.65         | -45.51      | ≤-27.65    | PASS    |
|           |         | High         | 2462           | -6.34         | -52.8       | ≤-26.34    | PASS    |
| 11N40SISO | Ant1    | Low          | 2422           | -10.43        | -48.67      | ≤-30.43    | PASS    |
|           |         | High         | 2452           | -9.87         | -51.63      | ≤-29.87    | PASS    |

## Test Graphs

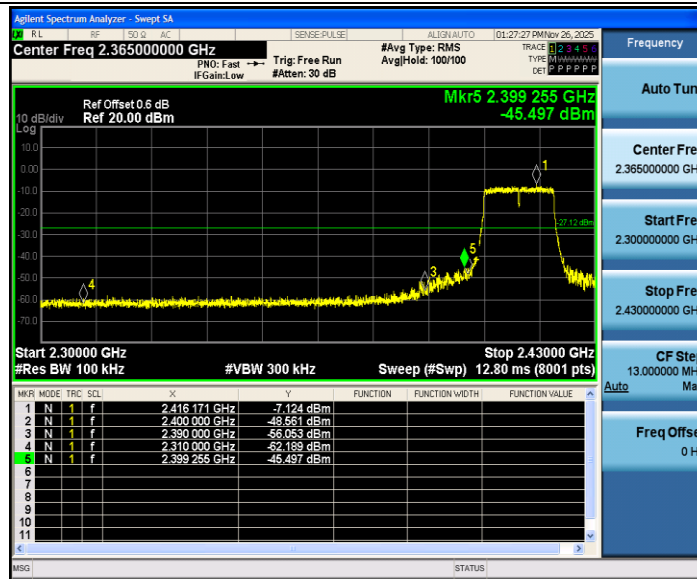
11B\_Ant1\_Low\_2412



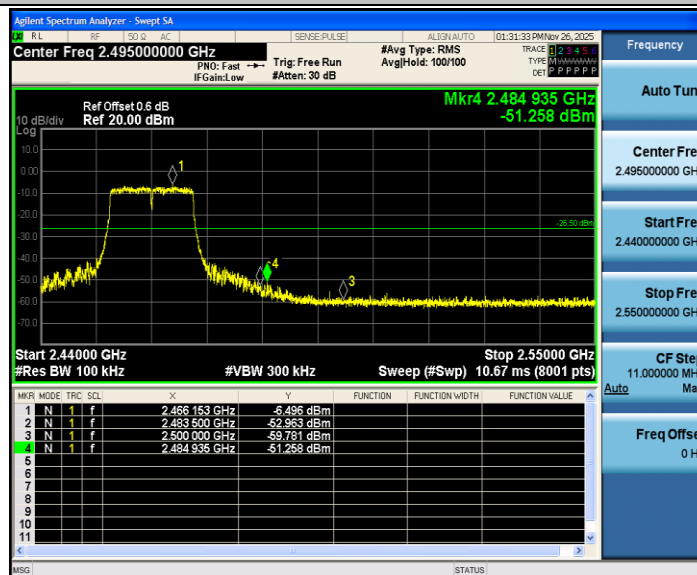
11B\_Ant1\_High\_2462



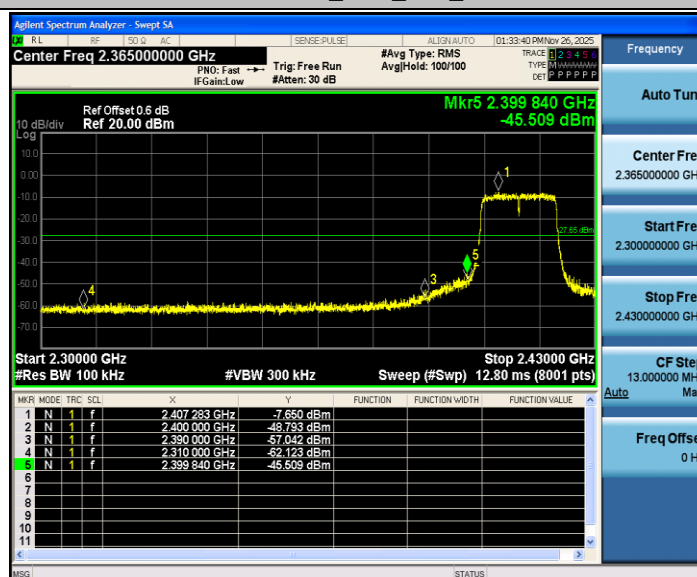
11G\_Ant1\_Low\_2412



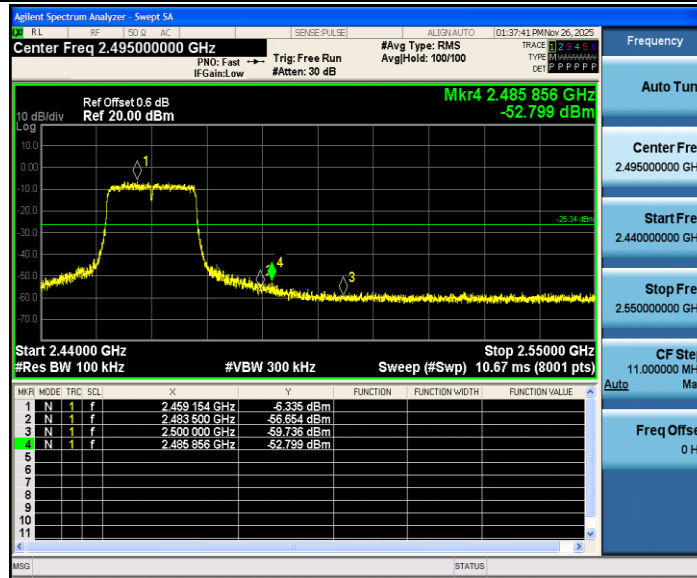
11G\_Ant1\_High\_2462



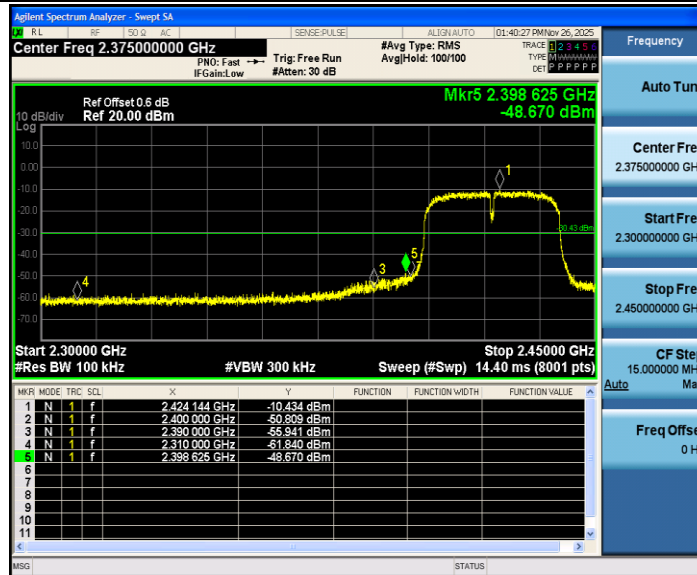
11N20SISO\_Ant1\_Low\_2412



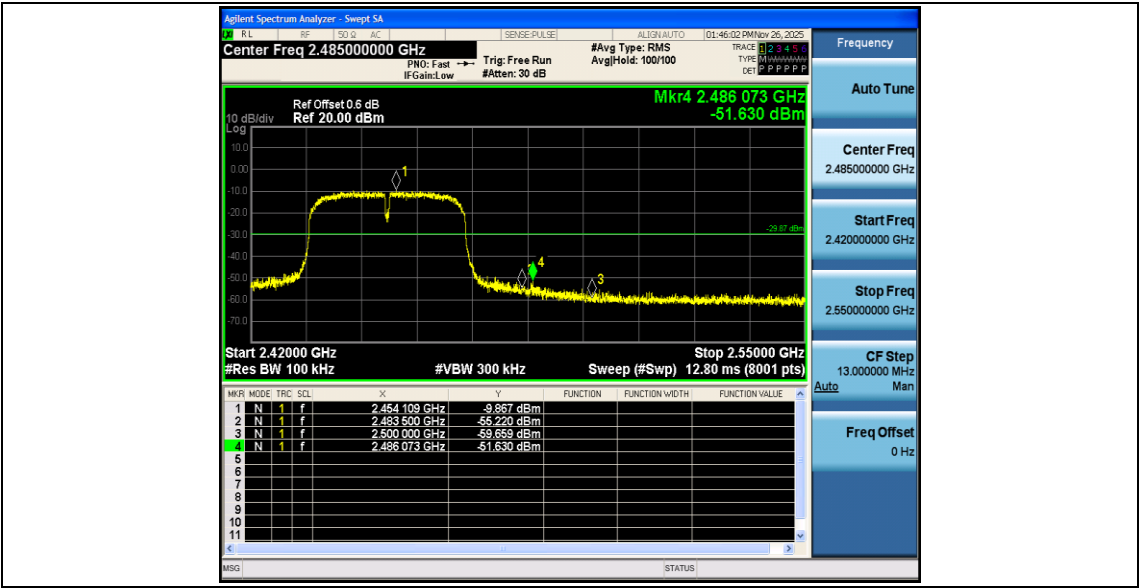
# 11N20SISO\_Ant1\_High\_2462



# 11N40SISO\_Ant1\_Low\_2422



# 11N40SISO\_Ant1\_High\_2452



## Appendix F: Conducted Spurious Emission

### Test Result

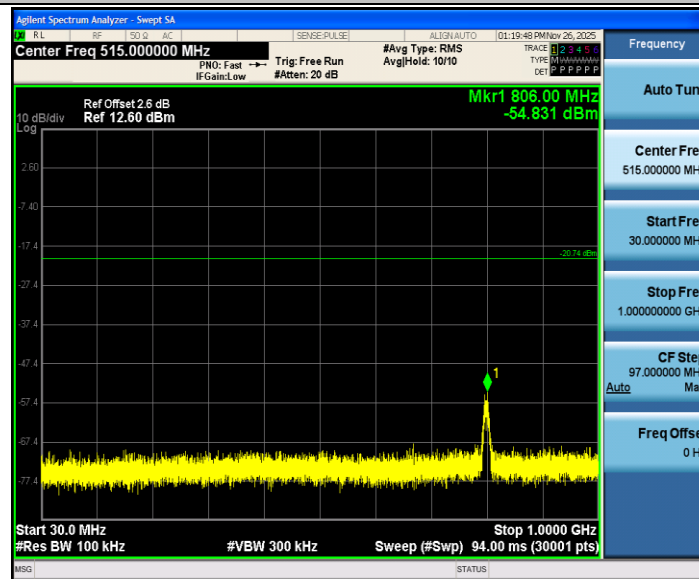
| TestMode  | Antenna | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|-----------------|----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412           | Reference       | -0.74          | -0.74        | ---         | PASS    |
|           |         |                | 30~1000         | -0.74          | -54.83       | ≤-20.74     | PASS    |
|           |         |                | 1000~26500      | -0.74          | -43.83       | ≤-20.74     | PASS    |
|           |         | 2437           | Reference       | -0.13          | -0.13        | ---         | PASS    |
|           |         |                | 30~1000         | -0.13          | -55.26       | ≤-20.13     | PASS    |
|           |         |                | 1000~26500      | -0.13          | -44.46       | ≤-20.13     | PASS    |
|           |         | 2462           | Reference       | 1.10           | 1.10         | ---         | PASS    |
|           |         |                | 30~1000         | 1.10           | -55.39       | ≤-18.9      | PASS    |
|           |         |                | 1000~26500      | 1.10           | -45.13       | ≤-18.9      | PASS    |
| 11G       | Ant1    | 2412           | Reference       | -7.90          | -7.90        | ---         | PASS    |
|           |         |                | 30~1000         | -7.90          | -60.11       | ≤-27.9      | PASS    |
|           |         |                | 1000~26500      | -7.90          | -43.47       | ≤-27.9      | PASS    |
|           |         | 2437           | Reference       | -6.86          | -6.86        | ---         | PASS    |
|           |         |                | 30~1000         | -6.86          | -58.08       | ≤-26.86     | PASS    |
|           |         |                | 1000~26500      | -6.86          | -44.2        | ≤-26.86     | PASS    |
|           |         | 2462           | Reference       | -7.29          | -7.29        | ---         | PASS    |
|           |         |                | 30~1000         | -7.29          | -59.08       | ≤-27.29     | PASS    |
|           |         |                | 1000~26500      | -7.29          | -44.6        | ≤-27.29     | PASS    |
| 11N20SISO | Ant1    | 2412           | Reference       | -8.22          | -8.22        | ---         | PASS    |
|           |         |                | 30~1000         | -8.22          | -60.04       | ≤-28.22     | PASS    |
|           |         |                | 1000~26500      | -8.22          | -43.63       | ≤-28.22     | PASS    |
|           |         | 2437           | Reference       | -7.45          | -7.45        | ---         | PASS    |
|           |         |                | 30~1000         | -7.45          | -59.8        | ≤-27.45     | PASS    |
|           |         |                | 1000~26500      | -7.45          | -44.23       | ≤-27.45     | PASS    |
|           |         | 2462           | Reference       | -6.52          | -6.52        | ---         | PASS    |
|           |         |                | 30~1000         | -6.52          | -59.49       | ≤-26.52     | PASS    |
|           |         |                | 1000~26500      | -6.52          | -44.58       | ≤-26.52     | PASS    |
| 11N40SISO | Ant1    | 2422           | Reference       | -10.96         | -10.96       | ---         | PASS    |
|           |         |                | 30~1000         | -10.96         | -61.68       | ≤-30.96     | PASS    |
|           |         |                | 1000~26500      | -10.96         | -43.45       | ≤-30.96     | PASS    |
|           |         | 2437           | Reference       | -10.15         | -10.15       | ---         | PASS    |
|           |         |                | 30~1000         | -10.15         | -62.12       | ≤-30.15     | PASS    |
|           |         |                | 1000~26500      | -10.15         | -44.07       | ≤-30.15     | PASS    |
|           |         | 2452           | Reference       | -10.65         | -10.65       | ---         | PASS    |
|           |         |                | 30~1000         | -10.65         | -62.08       | ≤-30.65     | PASS    |
|           |         |                | 1000~26500      | -10.65         | -44.48       | ≤-30.65     | PASS    |

## Test Graphs

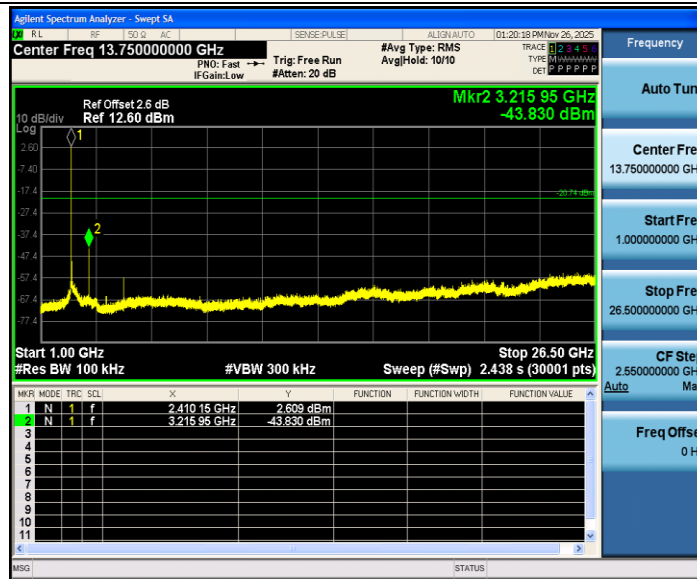
11B\_Ant1\_2412\_0~Reference



11B\_Ant1\_2412\_30~1000



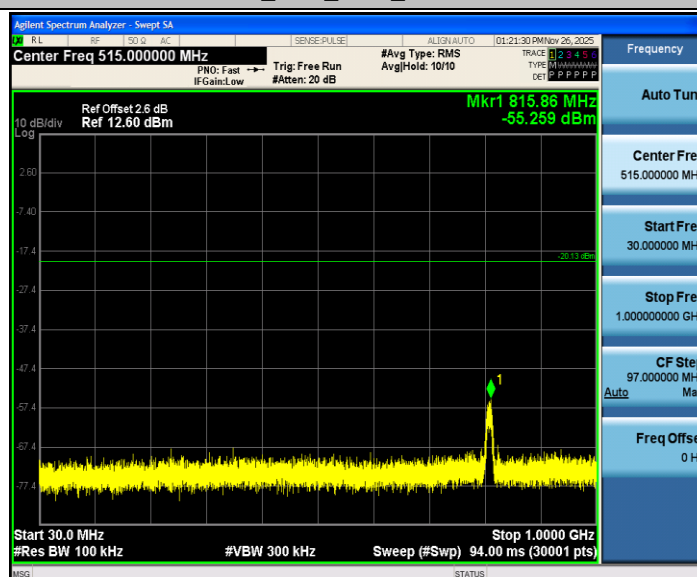
11B\_Ant1\_2412\_1000~26500



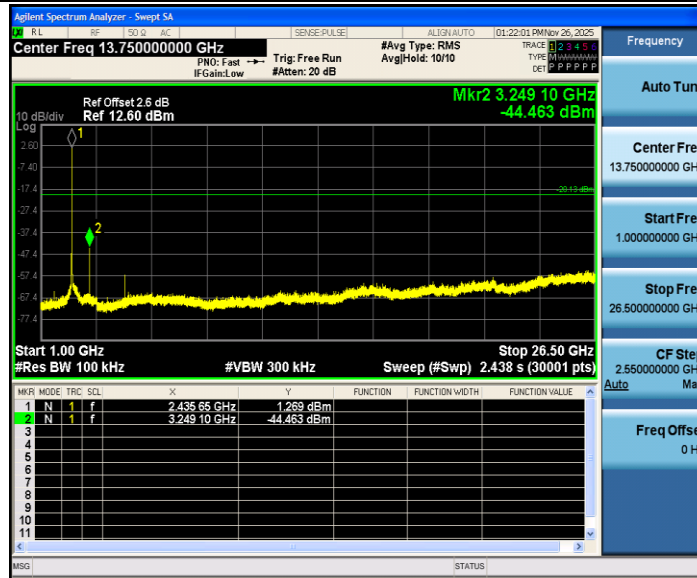
11B\_Ant1\_2437\_0~Reference



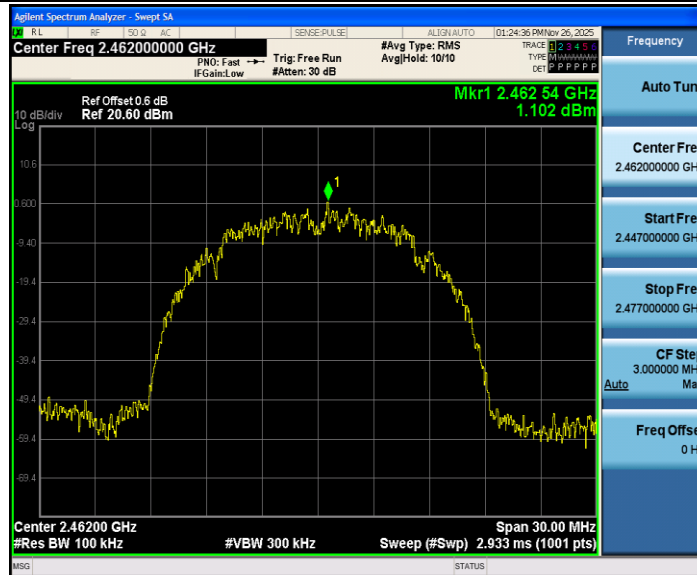
11B\_Ant1\_2437\_30~1000



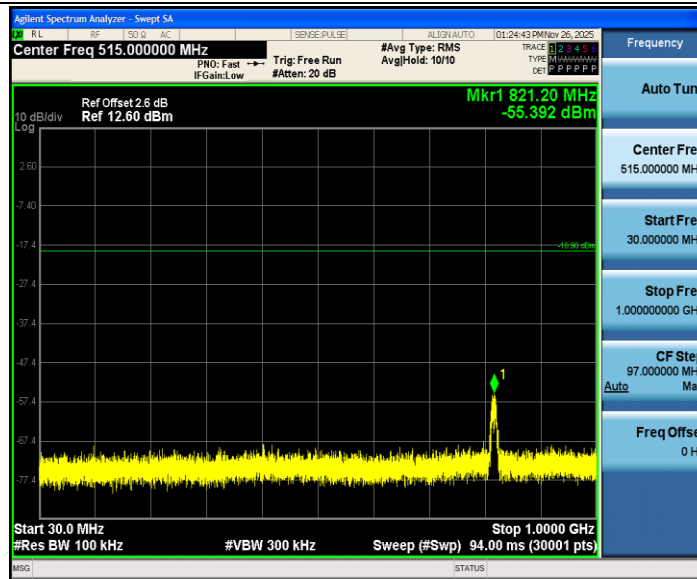
# 11B\_Ant1\_2437\_1000~26500



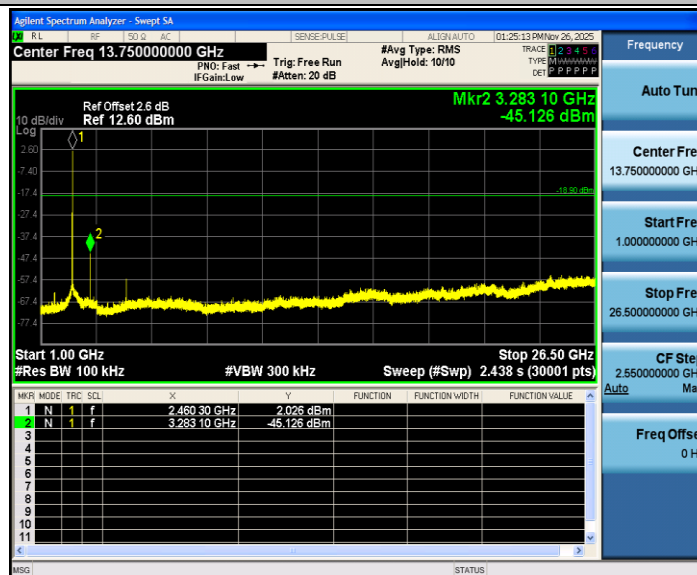
# 11B\_Ant1\_2462\_0~Reference



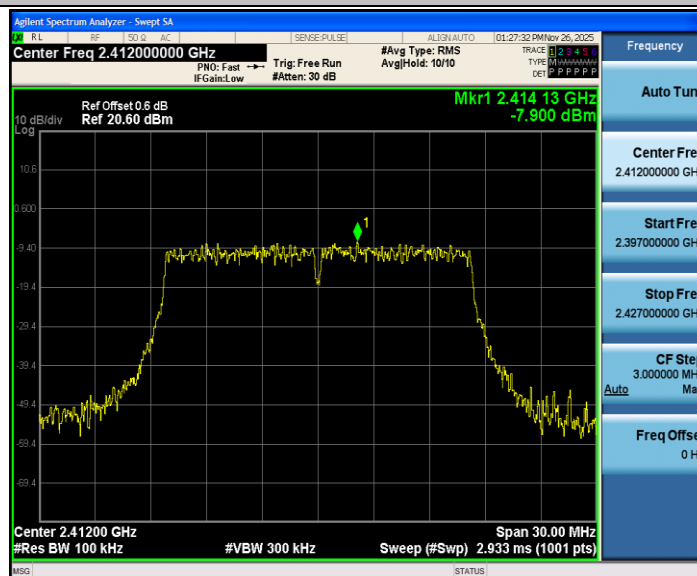
# 11B\_Ant1\_2462\_30~1000



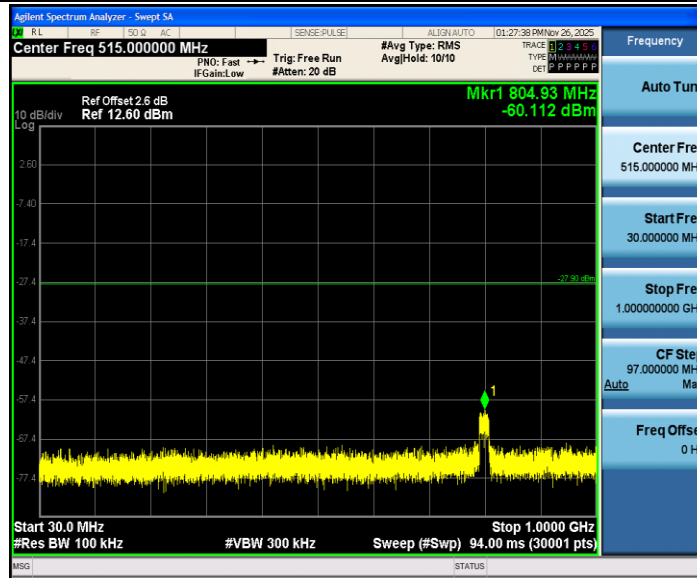
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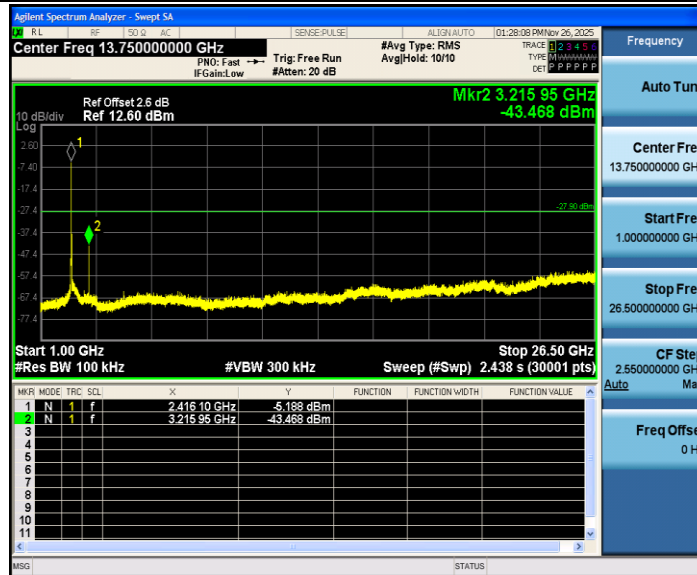
11G\_Ant1\_2412\_0~Reference



# 11G\_Ant1\_2412\_30~1000



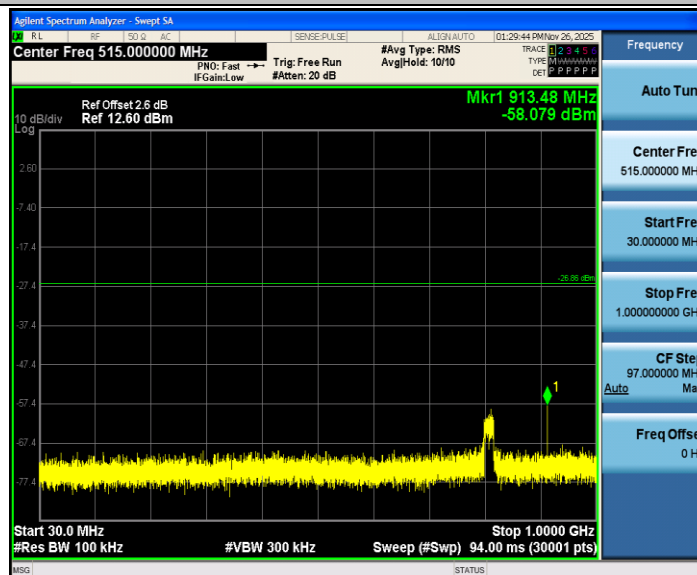
# 11G\_Ant1\_2412\_1000~26500



# 11G\_Ant1\_2437\_0~Reference



11G\_Ant1\_2437\_30~1000



11G\_Ant1\_2437\_1000~26500

