

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

**FCC ID** : 2A98M-PM2400SE

**Company** : Shenzhen Doke Communication Co.,Ltd

**EUT** : Portable Power Station

**Model Number** : PowerMax 2400 SE

**Report No.** : CTA26042701902

**Reviewed By** : Eric Wang

## Appendix A: DTS Bandwidth

### Test Result

| TestMode  | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|----------|----------|------------|---------|
| 11B       | Ant1    | 2412           | 10.200       | 2406.920 | 2417.120 | 0.5        | PASS    |
|           |         | 2437           | 10.200       | 2431.920 | 2442.120 | 0.5        | PASS    |
|           |         | 2462           | 10.240       | 2456.920 | 2467.160 | 0.5        | PASS    |
| 11G       | Ant1    | 2412           | 15.640       | 2404.200 | 2419.840 | 0.5        | PASS    |
|           |         | 2437           | 16.120       | 2428.880 | 2445.000 | 0.5        | PASS    |
|           |         | 2462           | 15.480       | 2454.280 | 2469.760 | 0.5        | PASS    |
| 11N20SISO | Ant1    | 2412           | 16.480       | 2403.520 | 2420.000 | 0.5        | PASS    |
|           |         | 2437           | 17.120       | 2428.440 | 2445.560 | 0.5        | PASS    |
|           |         | 2462           | 16.680       | 2453.440 | 2470.120 | 0.5        | PASS    |

## Test Graphs

11B\_Ant1\_2412



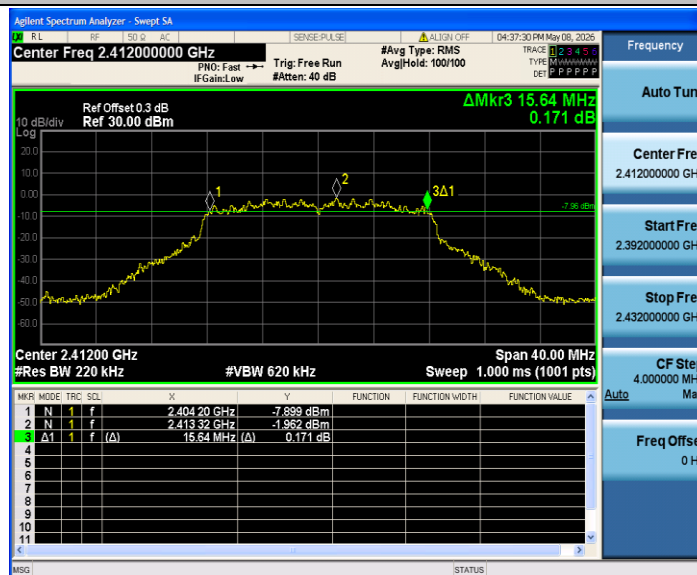
11B\_Ant1\_2437



11B\_Ant1\_2462



11G\_Ant1\_2412



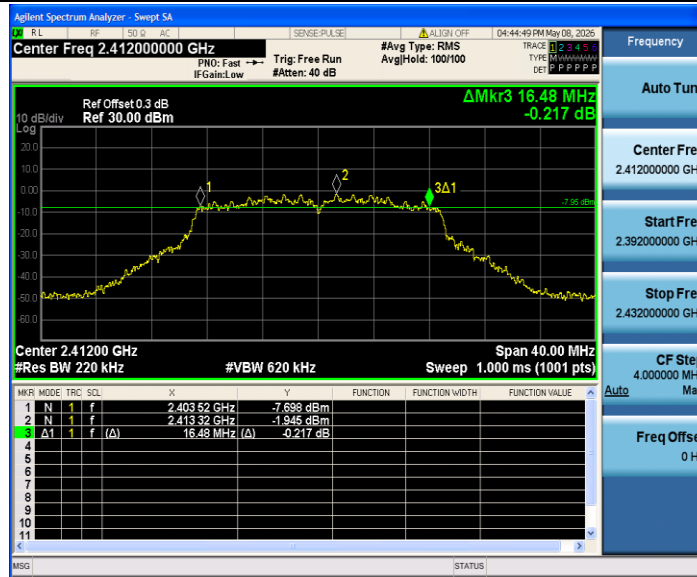
11G\_Ant1\_2437



# 11G\_Ant1\_2462



# 11N20SISO\_Ant1\_2412



# 11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462



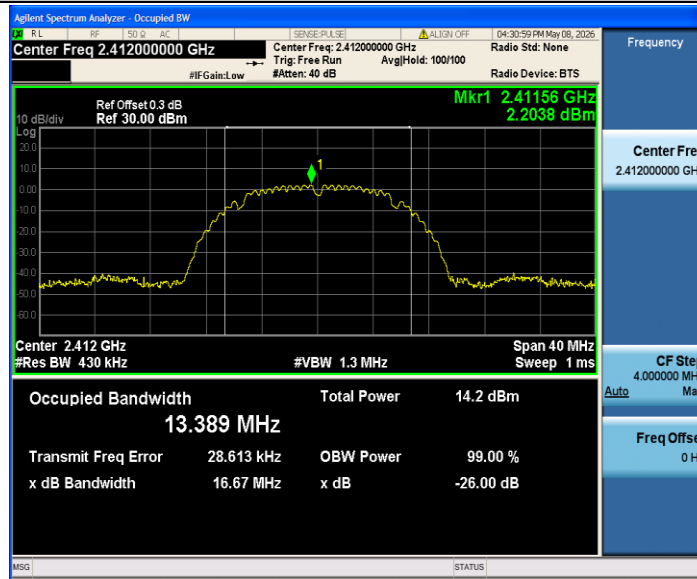
## Appendix B: Occupied Channel Bandwidth

### Test Result

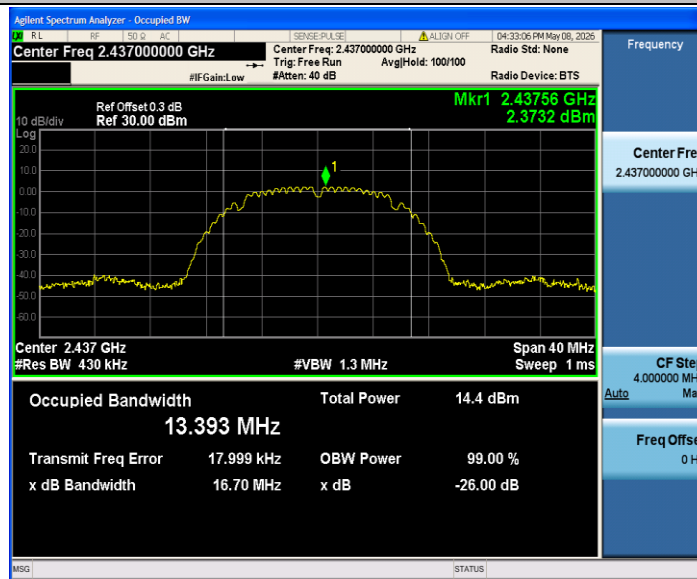
| TestMode  | Antenna | Channel<br>Frequency[MHz] | OCB<br>[MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|---------------------------|--------------|-----------|-----------|------------|---------|
| 11B       | Ant1    | 2412                      | 13.389       | 2405.3341 | 2418.7231 | ---        | ---     |
|           |         | 2437                      | 13.393       | 2430.3215 | 2443.7145 | ---        | ---     |
|           |         | 2462                      | 13.409       | 2455.3110 | 2468.7200 | ---        | ---     |
| 11G       | Ant1    | 2412                      | 16.856       | 2403.6052 | 2420.4612 | ---        | ---     |
|           |         | 2437                      | 16.927       | 2428.5849 | 2445.5119 | ---        | ---     |
|           |         | 2462                      | 16.820       | 2453.6101 | 2470.4301 | ---        | ---     |
| 11N20SISO | Ant1    | 2412                      | 17.893       | 2403.0623 | 2420.9553 | ---        | ---     |
|           |         | 2437                      | 17.845       | 2428.0980 | 2445.9430 | ---        | ---     |
|           |         | 2462                      | 17.884       | 2453.0827 | 2470.9667 | ---        | ---     |

## Test Graphs

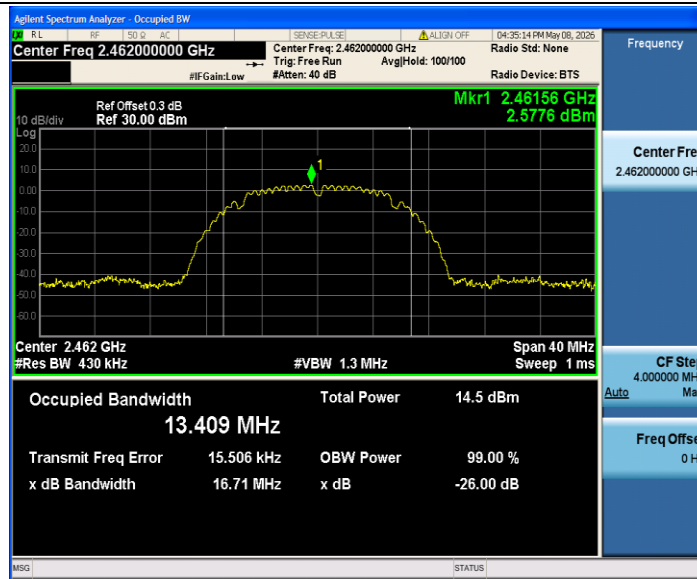
11B\_Ant1\_2412



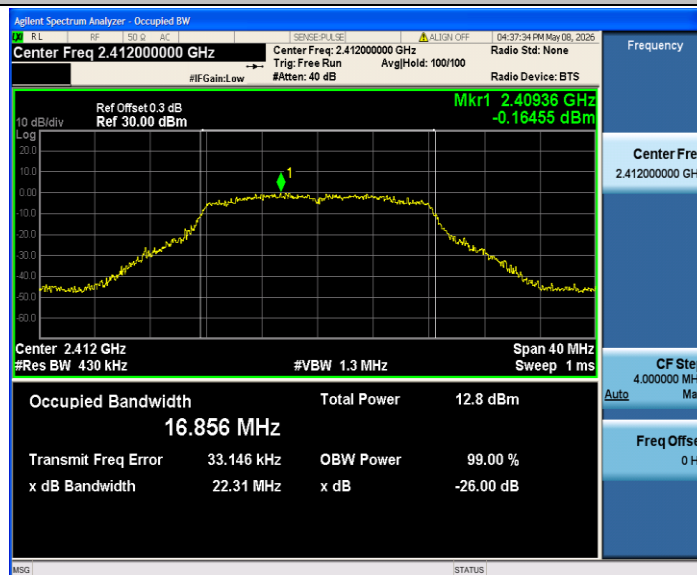
11B\_Ant1\_2437



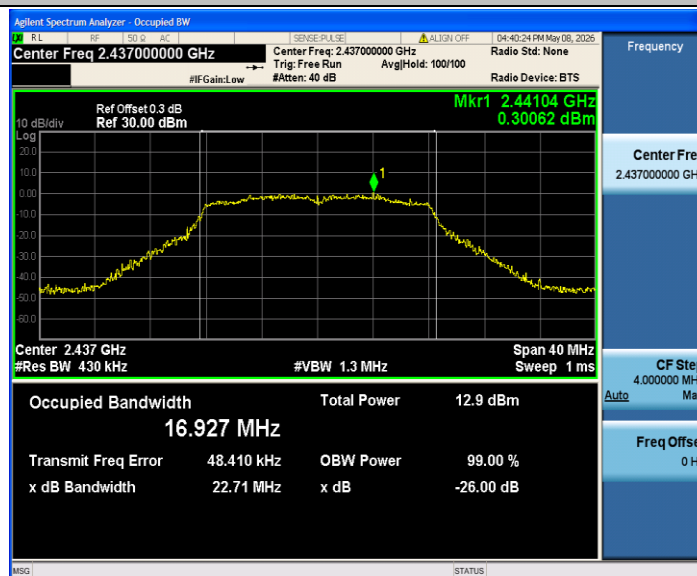
11B\_Ant1\_2462



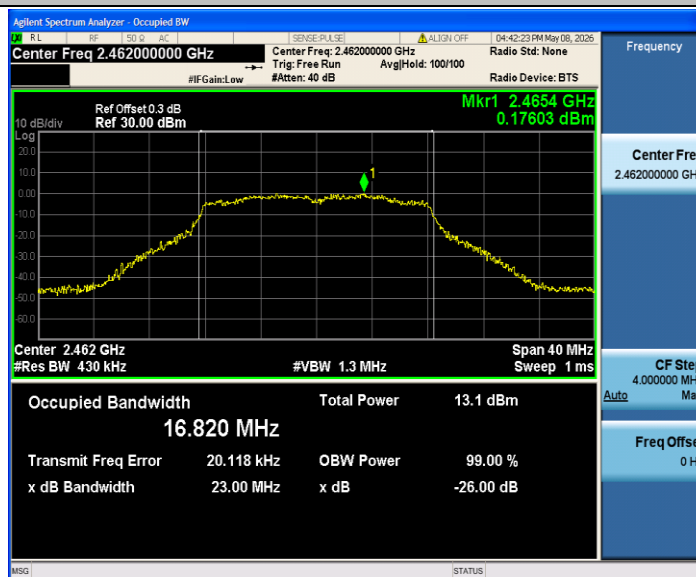
11G\_Ant1\_2412



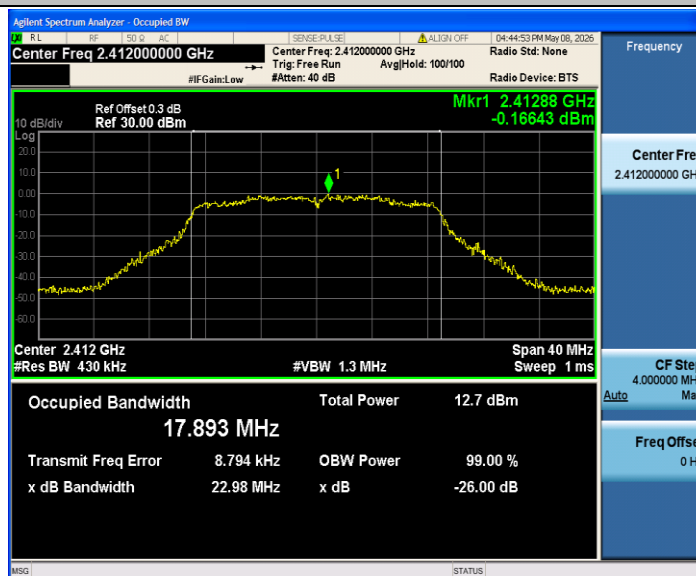
11G\_Ant1\_2437



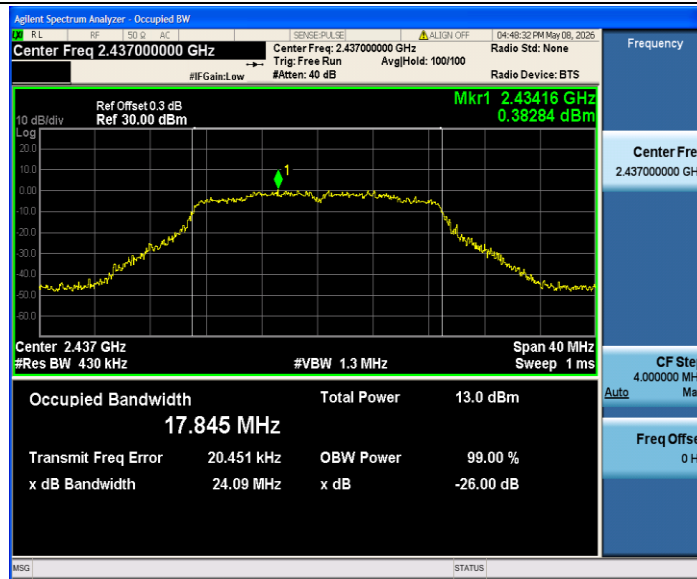
# 11G\_Ant1\_2462



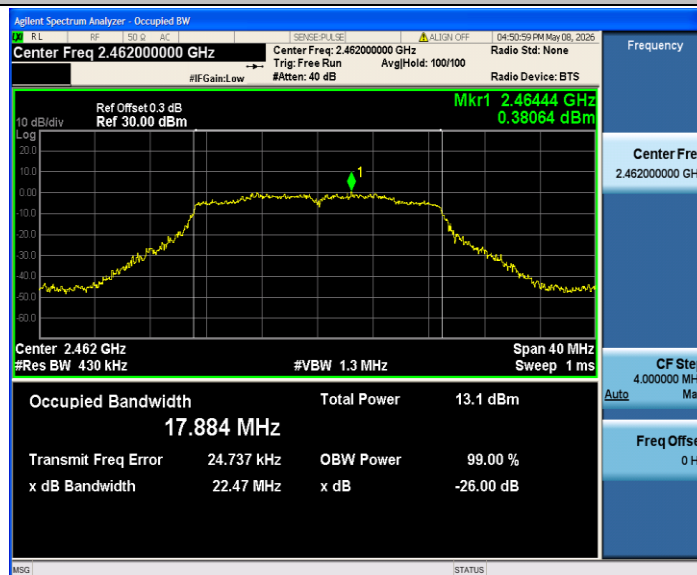
# 11N20SISO\_Ant1\_2412



# 11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462



## Appendix C: Maximum conducted output power

### Test Result

| Test Mode | Antenna | Frequency[MHz] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|--------------|-------------|---------|
| 11B       | Ant1    | 2412           | 13.86        | ≤30.00      | PASS    |
|           |         | 2437           | 14.04        | ≤30.00      | PASS    |
|           |         | 2462           | 14.06        | ≤30.00      | PASS    |
| 11G       | Ant1    | 2412           | 13.75        | ≤30.00      | PASS    |
|           |         | 2437           | 13.96        | ≤30.00      | PASS    |
|           |         | 2462           | 13.96        | ≤30.00      | PASS    |
| 11N20SISO | Ant1    | 2412           | 13.57        | ≤30.00      | PASS    |
|           |         | 2437           | 13.87        | ≤30.00      | PASS    |
|           |         | 2462           | 13.91        | ≤30.00      | PASS    |

## Appendix D: Maximum power spectral density

### Test Result

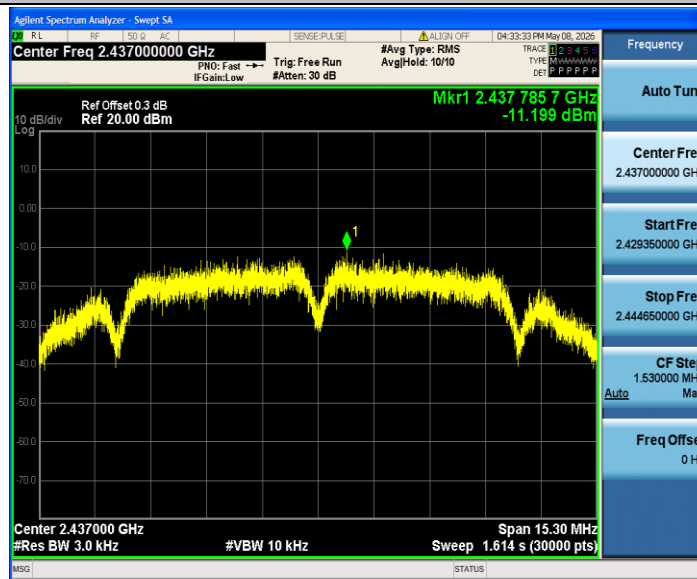
| TestMode  | Antenna | Frequency[MHz] | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|----------------|----------------------|-----------------|---------|
| 11B       | Ant1    | 2412           | -11.31               | ≤8.00           | PASS    |
|           |         | 2437           | -11.20               | ≤8.00           | PASS    |
|           |         | 2462           | -11.16               | ≤8.00           | PASS    |
| 11G       | Ant1    | 2412           | -17.94               | ≤8.00           | PASS    |
|           |         | 2437           | -17.63               | ≤8.00           | PASS    |
|           |         | 2462           | -17.83               | ≤8.00           | PASS    |
| 11N20SISO | Ant1    | 2412           | -16.31               | ≤8.00           | PASS    |
|           |         | 2437           | -17.28               | ≤8.00           | PASS    |
|           |         | 2462           | -17.31               | ≤8.00           | PASS    |

## Test Graphs

11B\_Ant1\_2412



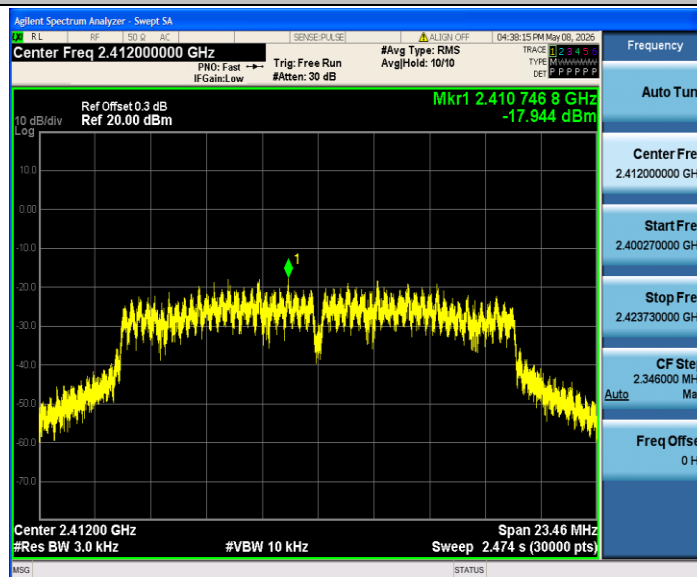
11B\_Ant1\_2437



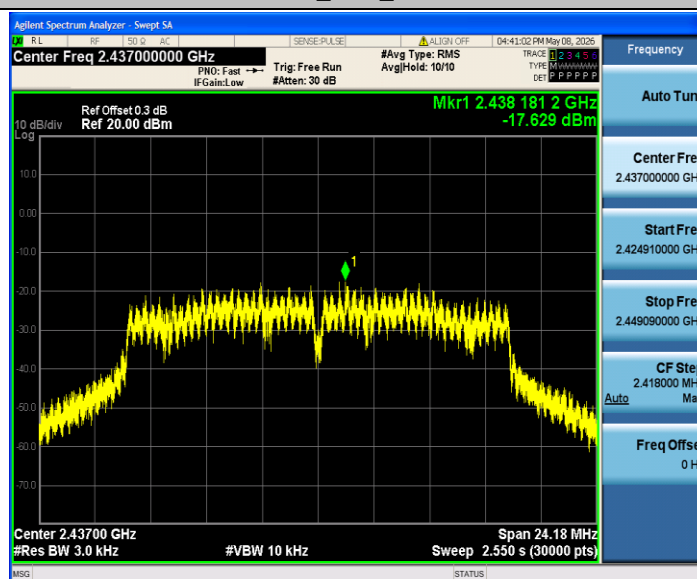
11B\_Ant1\_2462



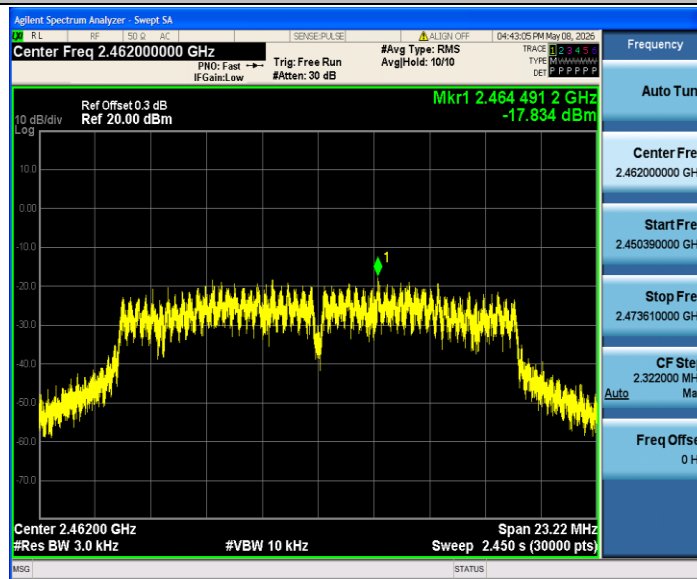
11G\_Ant1\_2412



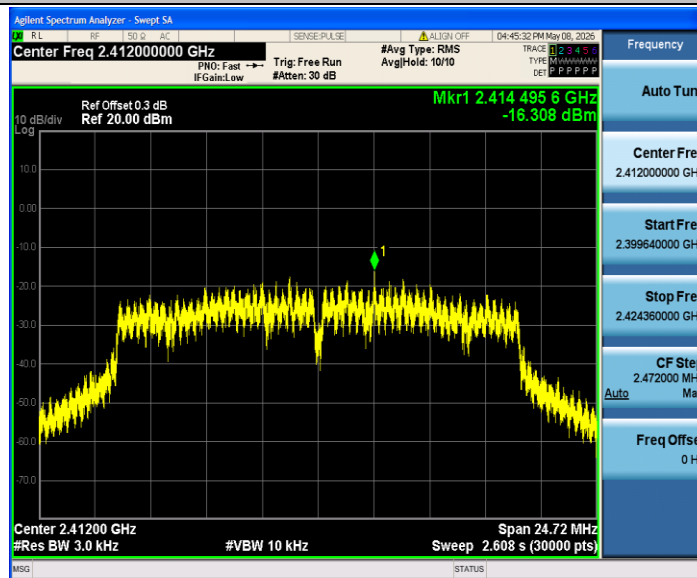
11G\_Ant1\_2437



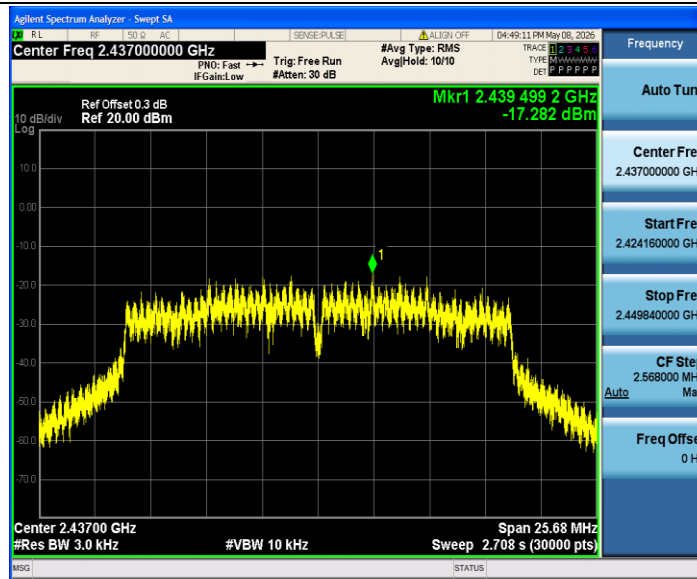
# 11G\_Ant1\_2462



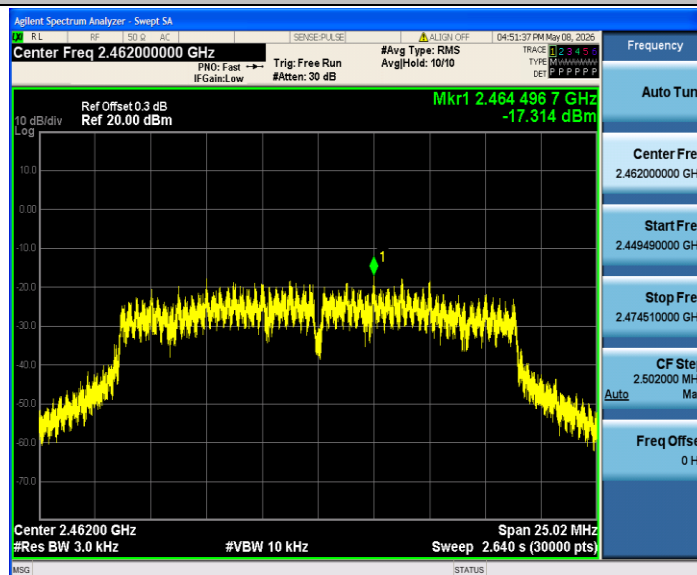
# 11N20SISO\_Ant1\_2412



# 11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462



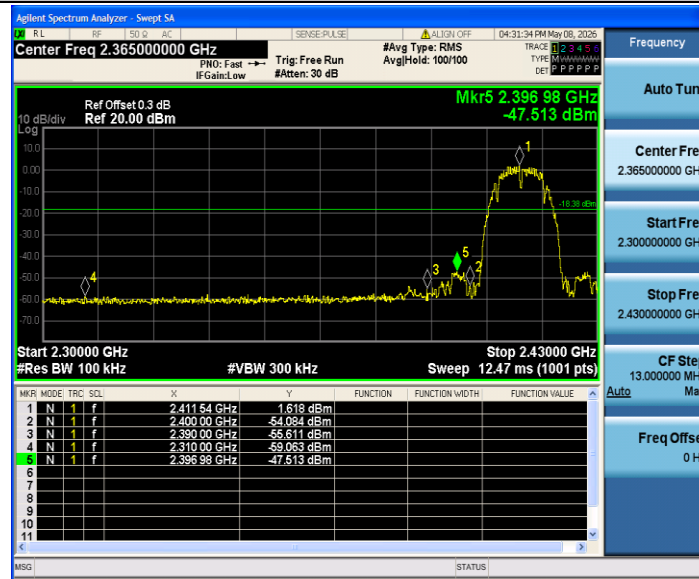
## Appendix E: Band edge measurements

### Test Result

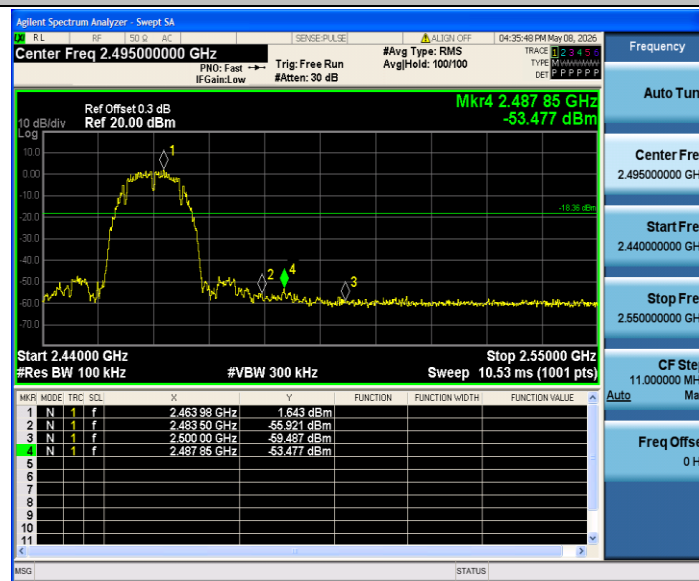
| TestMode  | Antenna | Channel Name | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------------|----------------|---------------|-------------|------------|---------|
| 11B       | Ant1    | Low          | 2412           | 1.62          | -47.51      | ≤-18.38    | PASS    |
|           |         | High         | 2462           | 1.64          | -53.48      | ≤-18.36    | PASS    |
| 11G       | Ant1    | Low          | 2412           | -2.74         | -34.94      | ≤-22.74    | PASS    |
|           |         | High         | 2462           | -2.67         | -57.77      | ≤-22.67    | PASS    |
| 11N20SISO | Ant1    | Low          | 2412           | -2.83         | -33.12      | ≤-22.83    | PASS    |
|           |         | High         | 2462           | -2.40         | -57.73      | ≤-22.4     | PASS    |

## Test Graphs

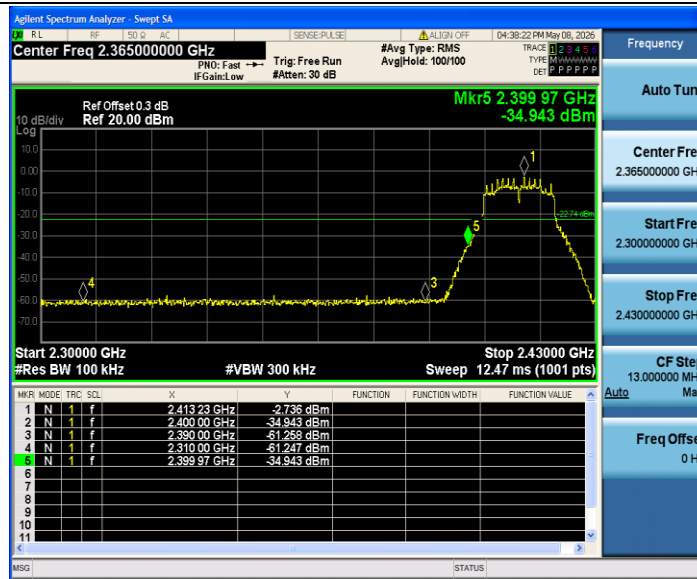
11B\_Ant1\_Low\_2412



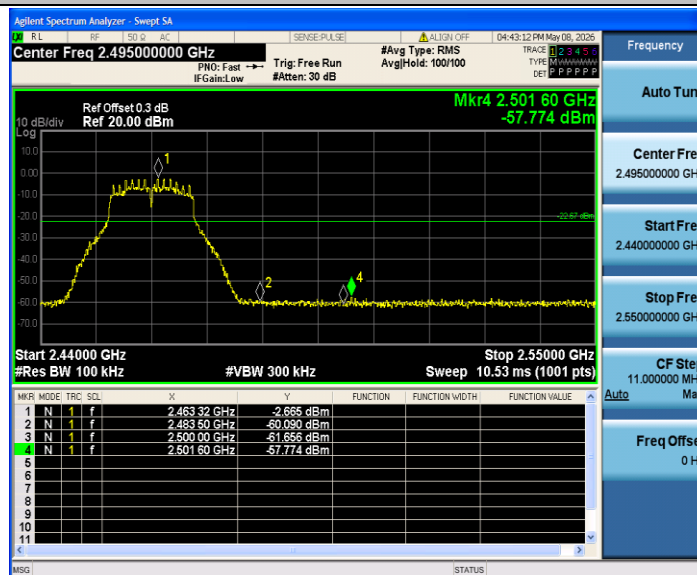
11B\_Ant1\_High\_2462



11G\_Ant1\_Low\_2412



11G\_Ant1\_High\_2462



11N20SISO\_Ant1\_Low\_2412

