# FCC Appendix RF Test Data

| | | |
|---|---|---|
| **FCC ID** | **:** | **2BF3Z-E03** |
| **Company** | **:** | **Shenzhen Taiyang Technology Co., Ltd** |
| **EUT** | **:** | **Smart Glasses** |
| **Model Number** | **:** | **E03** |
| **Report No.** | **:** | **CTA25060900703** |
| **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 | 8.760 | 2407.960 | 2416.720 | 0.5 | PASS |
| | | 2437 | 9.560 | 2432.480 | 2442.040 | 0.5 | PASS |
| | | 2462 | 10.000 | 2457.000 | 2467.000 | 0.5 | PASS |
| 11G | Ant1 | 2412 | 16.000 | 2403.880 | 2419.880 | 0.5 | PASS |
| | | 2437 | 15.720 | 2429.440 | 2445.160 | 0.5 | PASS |
| | | 2462 | 15.720 | 2453.840 | 2469.560 | 0.5 | PASS |
| 11N20SISO | Ant1 | 2412 | 16.280 | 2403.800 | 2420.080 | 0.5 | PASS |
| | | 2437 | 15.800 | 2429.440 | 2445.240 | 0.5 | PASS |
| | | 2462 | 16.320 | 2453.240 | 2469.560 | 0.5 | PASS |
| 11N40SISO | Ant1 | 2422 | 35.600 | 2404.240 | 2439.840 | 0.5 | PASS |
| | | 2437 | 35.120 | 2419.480 | 2454.600 | 0.5 | PASS |
| | | 2452 | 30.080 | 2434.480 | 2464.560 | 0.5 | PASS |

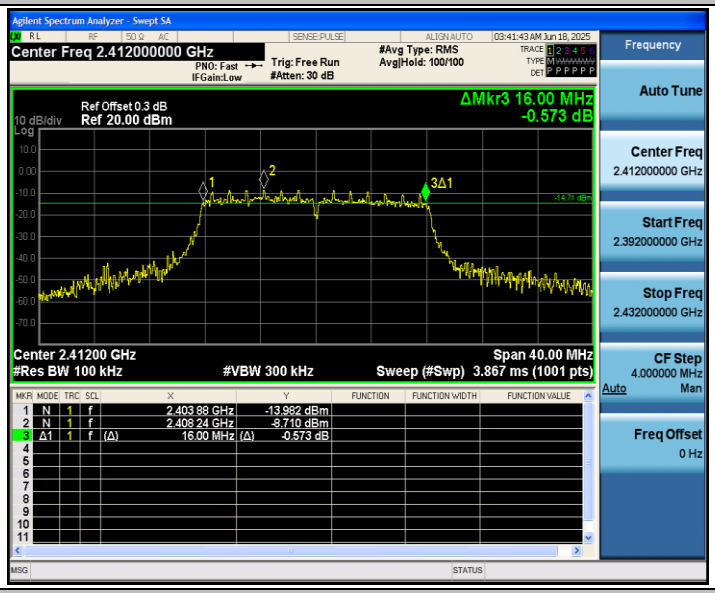
## Test Graphs

11B_Ant1_2412

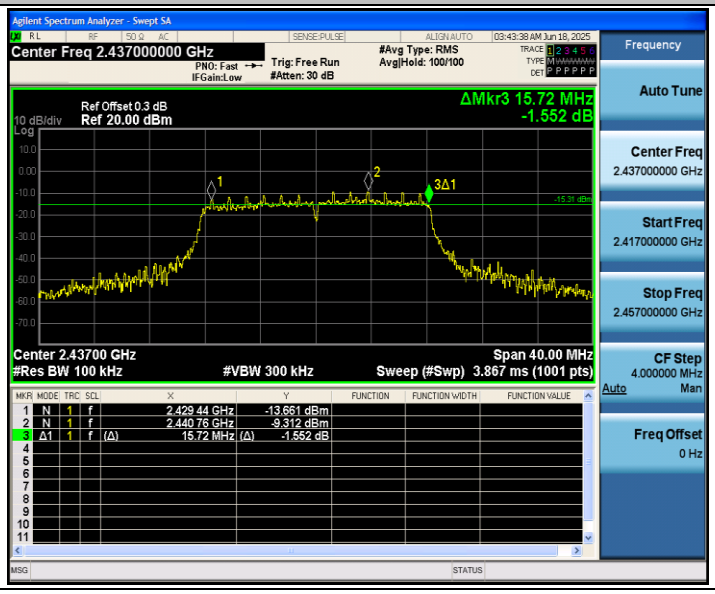
11B_Ant1_2437

11B_Ant1_2462

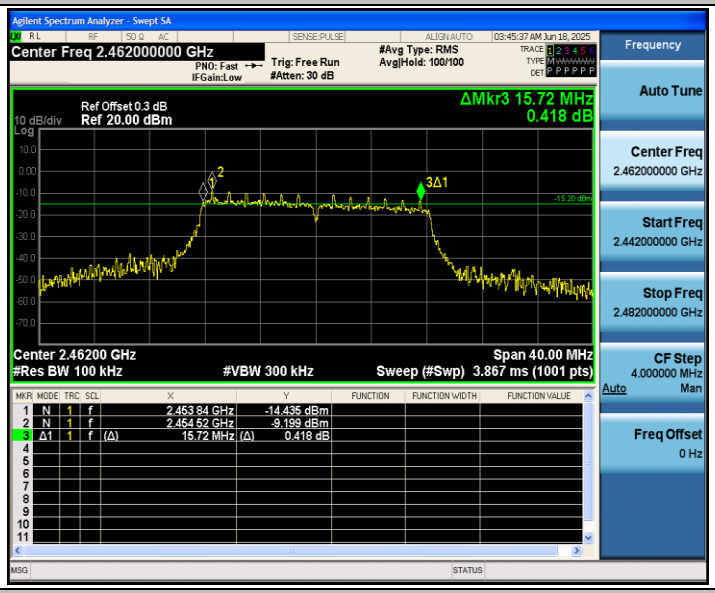
11G_Ant1_2412



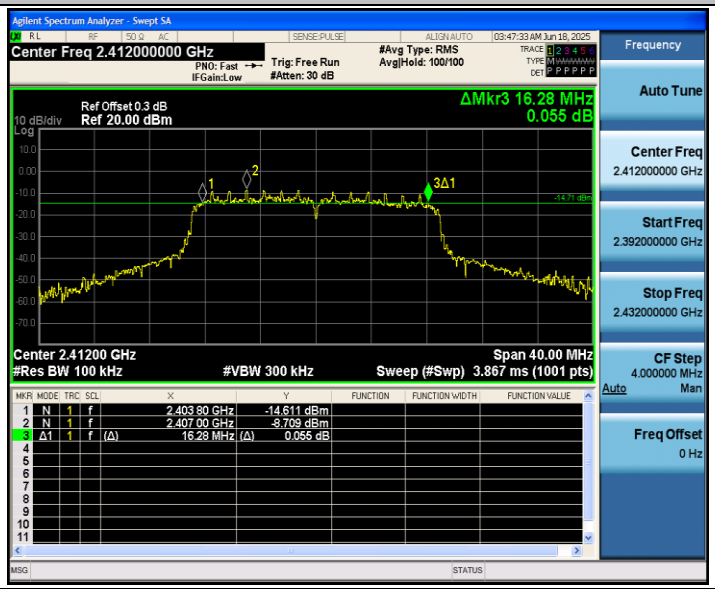

11G_Ant1_2437



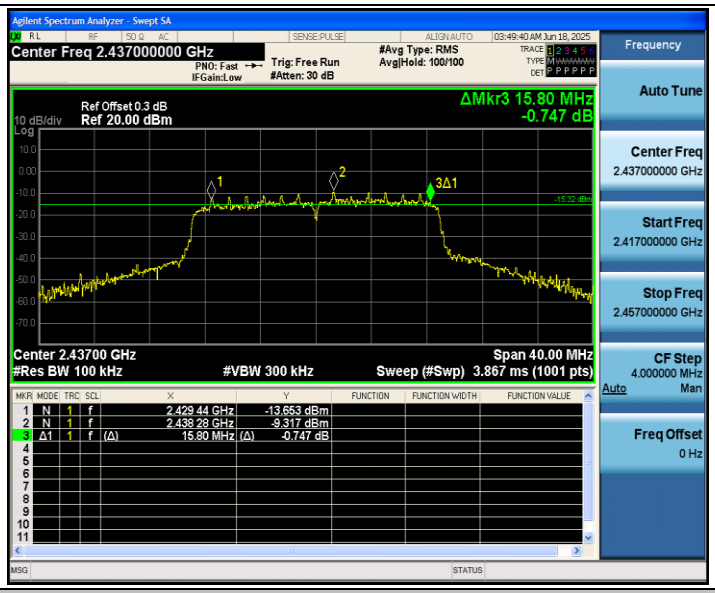
11G_Ant1_2462



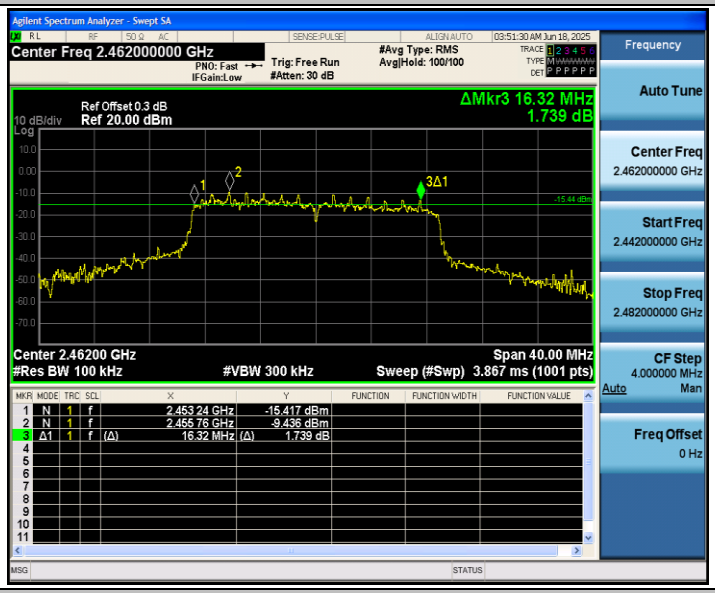

11N20SISO_Ant1_2412



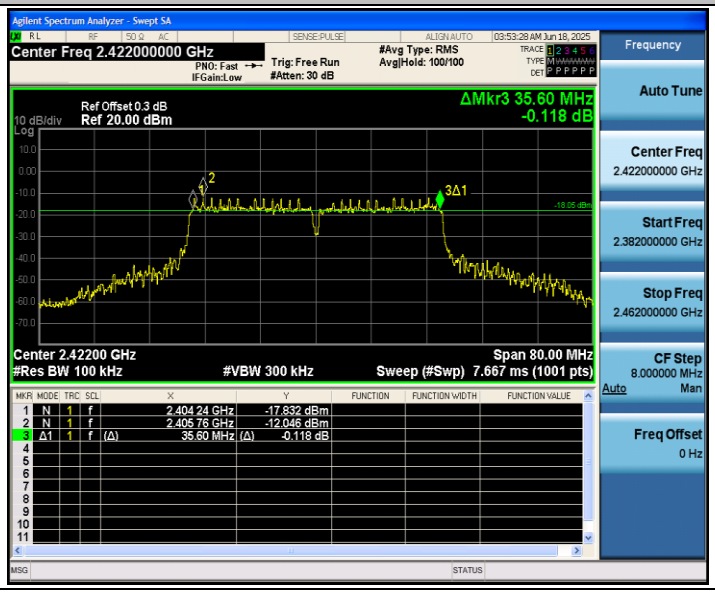

11N20SISO_Ant1_2437

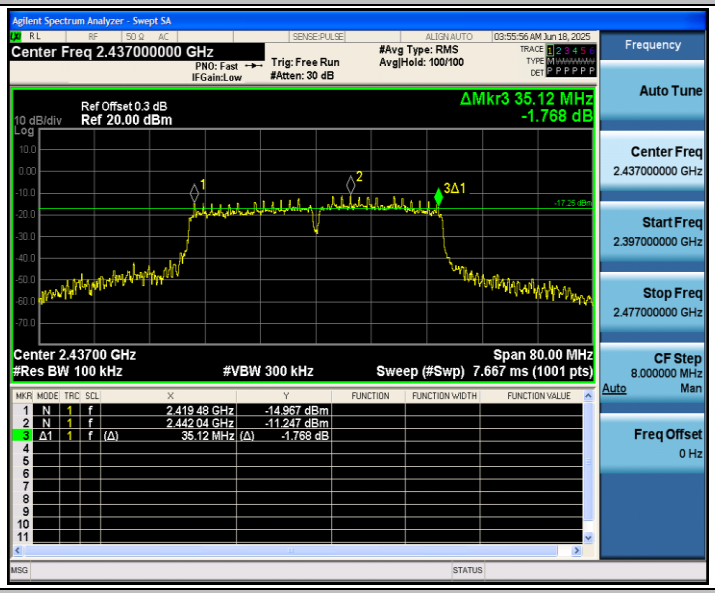



11N20SISO_Ant1_2462

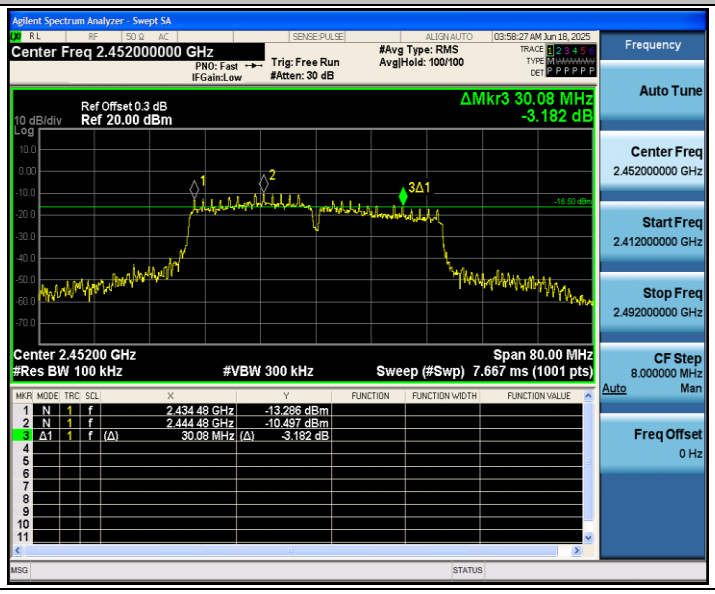



11N40SISO_Ant1_2422



| 11N40SISO_Ant1_2437 |
| --- |
|  |



| 11N40SISO_Ant1_2452 |
| --- |
|  |

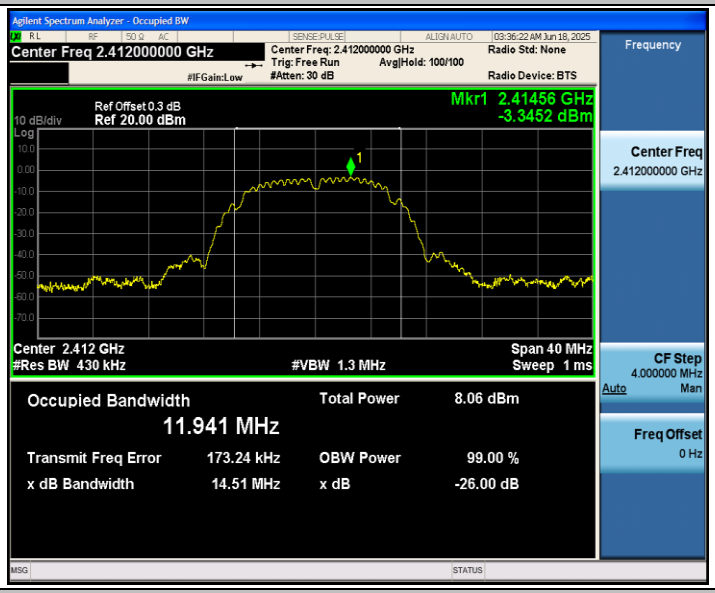
# Appendix B: Occupied Channel Bandwidth

## Test Result

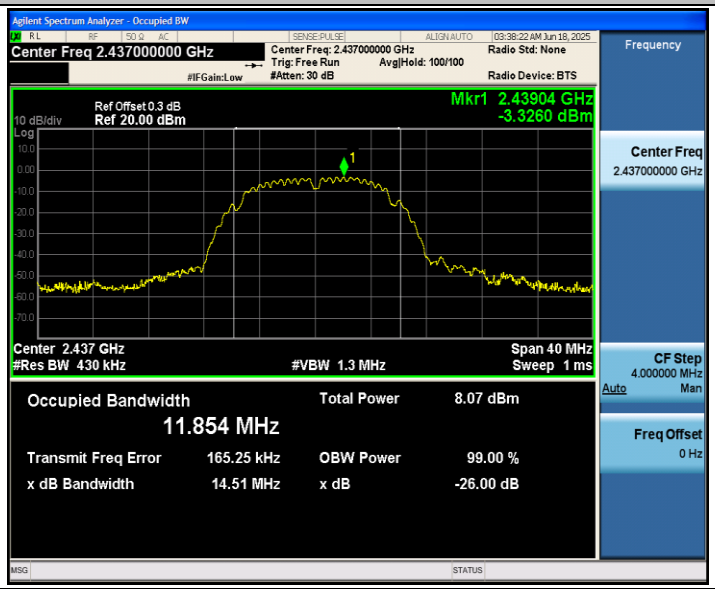
| TestMode | Antenna | Channel Frequency[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|---|---|
| 11B | Ant1 | 2412 | 11.941 | 2406.2027 | 2418.1437 | --- | --- |
| | | 2437 | 11.854 | 2431.2383 | 2443.0923 | --- | --- |
| | | 2462 | 12.001 | 2456.1451 | 2468.1461 | --- | --- |
| 11G | Ant1 | 2412 | 16.626 | 2403.6753 | 2420.3013 | --- | --- |
| | | 2437 | 16.599 | 2428.8233 | 2445.4223 | --- | --- |
| | | 2462 | 16.794 | 2453.4503 | 2470.2443 | --- | --- |
| 11N20SISO | Ant1 | 2412 | 17.652 | 2403.1512 | 2420.8032 | --- | --- |
| | | 2437 | 17.567 | 2428.3302 | 2445.8972 | --- | --- |
| | | 2462 | 17.795 | 2452.9521 | 2470.7471 | --- | --- |
| 11N40SISO | Ant1 | 2422 | 36.448 | 2403.8868 | 2440.3348 | --- | --- |
| | | 2437 | 36.031 | 2419.0976 | 2455.1286 | --- | --- |
| | | 2452 | 35.758 | 2434.0266 | 2469.7846 | --- | --- |

## Test Graphs

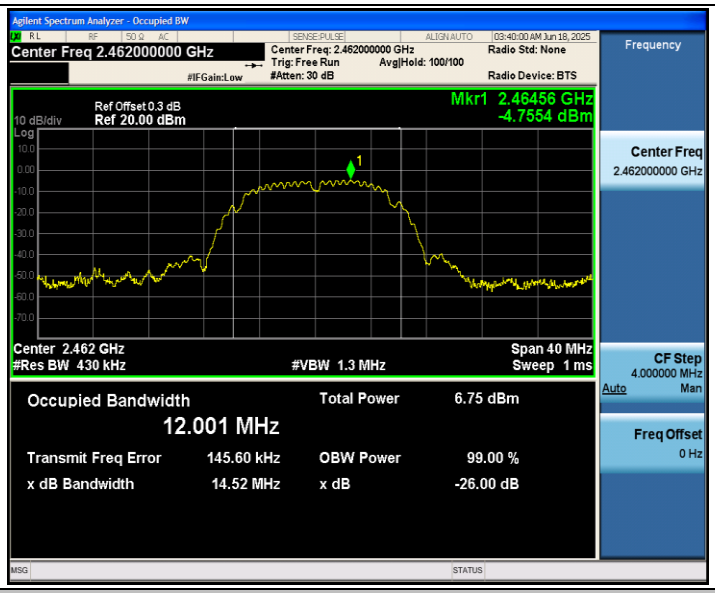
11B_Ant1_2412




11B_Ant1_2437

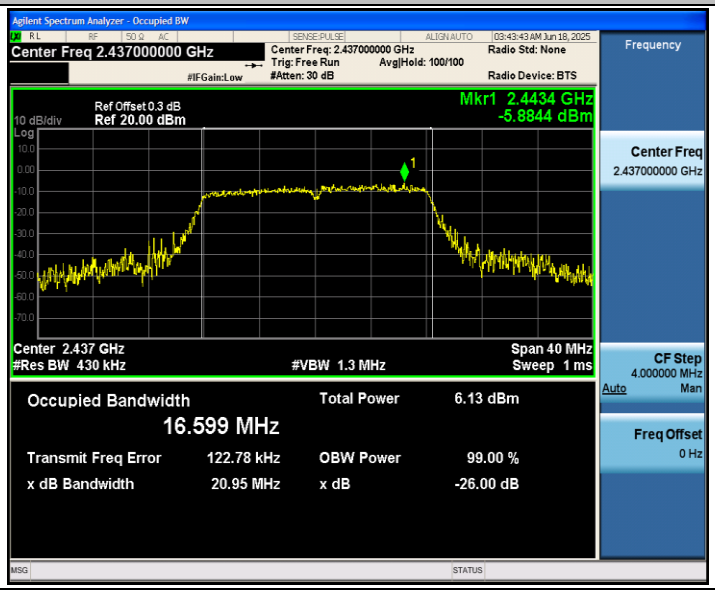



11B_Ant1_2462




11G_Ant1_2412

11G_Ant1_2437



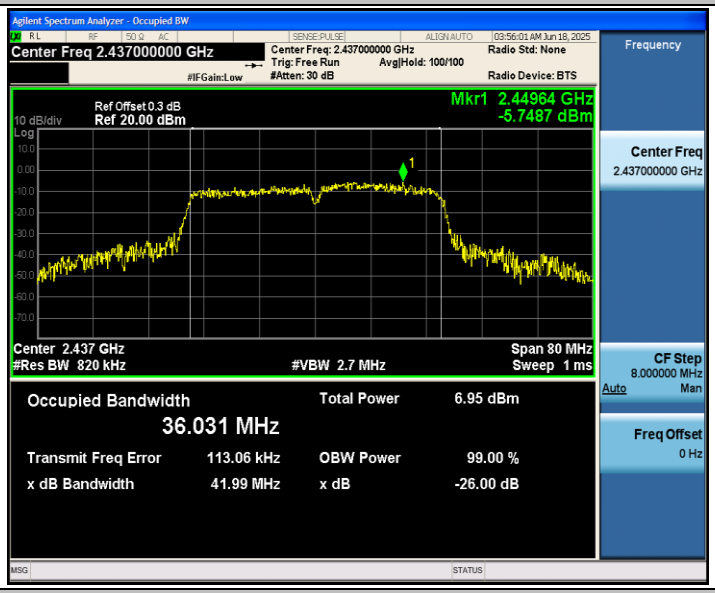
11G_Ant1_2462

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 | 7.76 | ≤30.00 | PASS |
| | | 2437 | 8.00 | ≤30.00 | PASS |
| | | 2462 | 6.72 | ≤30.00 | PASS |
| 11G | Ant1 | 2412 | 7.90 | ≤30.00 | PASS |
| | | 2437 | 6.79 | ≤30.00 | PASS |
| | | 2462 | 6.08 | ≤30.00 | PASS |
| 11N20SISO | Ant1 | 2412 | 7.90 | ≤30.00 | PASS |
| | | 2437 | 6.58 | ≤30.00 | PASS |
| | | 2462 | 6.28 | ≤30.00 | PASS |
| 11N40SISO | Ant1 | 2422 | 7.39 | ≤30.00 | PASS |
| | | 2437 | 7.10 | ≤30.00 | PASS |
| | | 2452 | 7.02 | ≤30.00 | PASS |

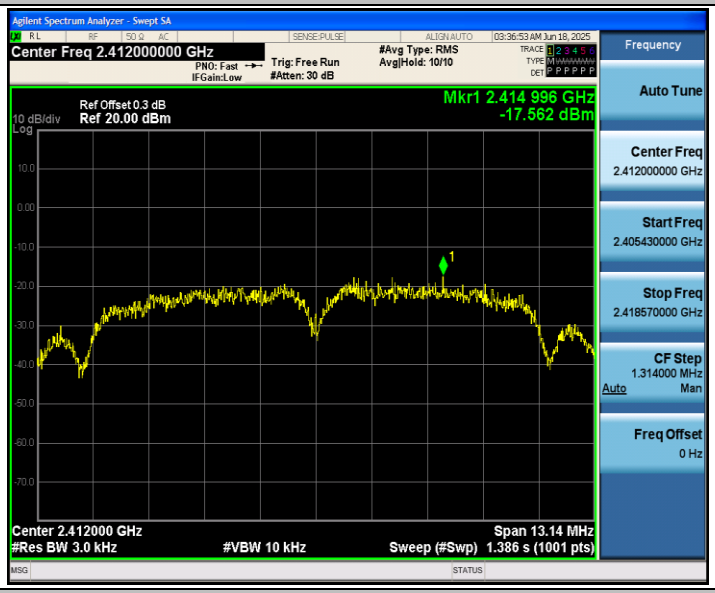
# Appendix D: Maximum power spectral density

## Test Result

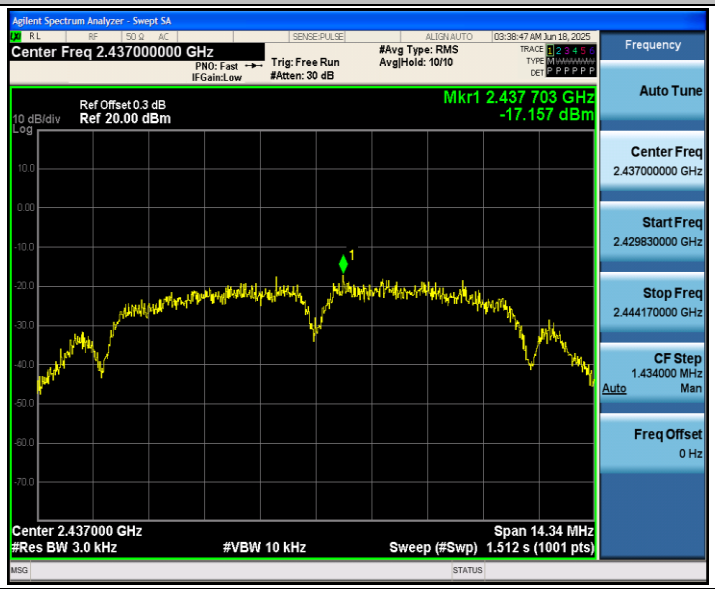
| TestMode | Antenna | Frequency[MHz] | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|---|---|---|---|---|---|
| 11B | Ant1 | 2412 | -17.56 | ≤8.00 | PASS |
| | | 2437 | -17.16 | ≤8.00 | PASS |
| | | 2462 | -19.44 | ≤8.00 | PASS |
| 11G | Ant1 | 2412 | -23.71 | ≤8.00 | PASS |
| | | 2437 | -24.02 | ≤8.00 | PASS |
| | | 2462 | -25.83 | ≤8.00 | PASS |
| 11N20SISO | Ant1 | 2412 | -24.40 | ≤8.00 | PASS |
| | | 2437 | -25.55 | ≤8.00 | PASS |
| | | 2462 | -25.48 | ≤8.00 | PASS |
| 11N40SISO | Ant1 | 2422 | -27.77 | ≤8.00 | PASS |
| | | 2437 | -27.00 | ≤8.00 | PASS |
| | | 2452 | -26.80 | ≤8.00 | PASS |

## Test Graphs

11B_Ant1_2412

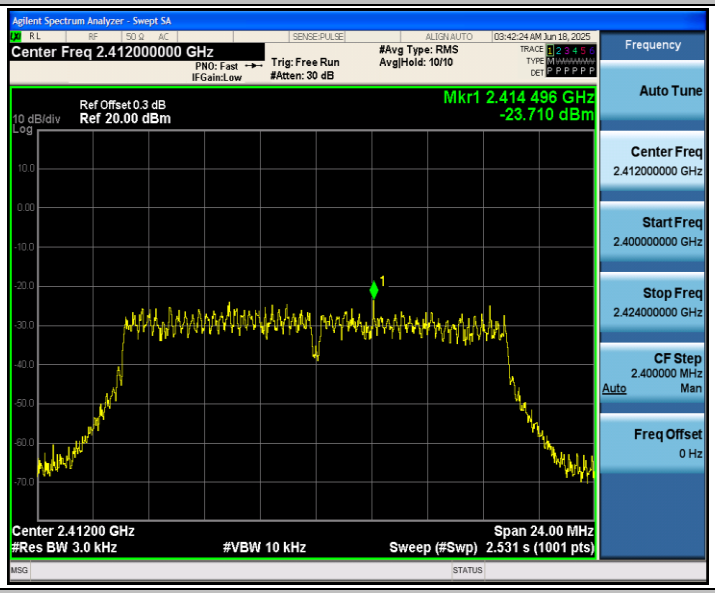



11B_Ant1_2437

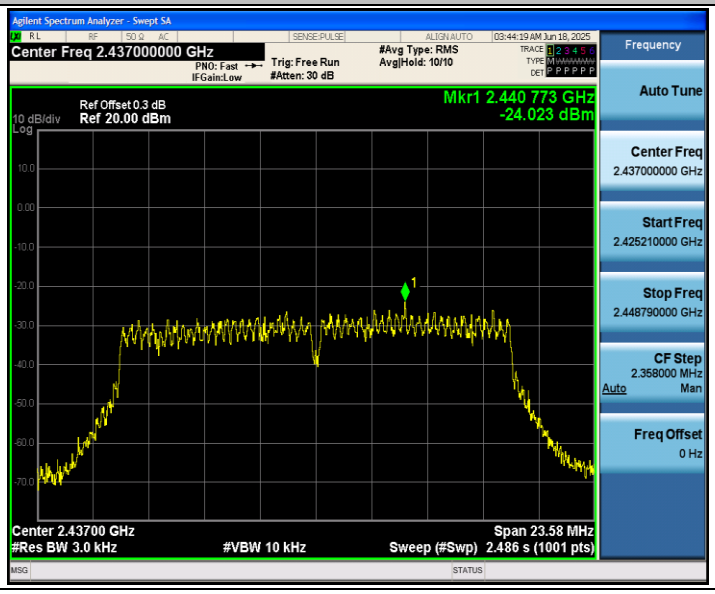



11B_Ant1_2462

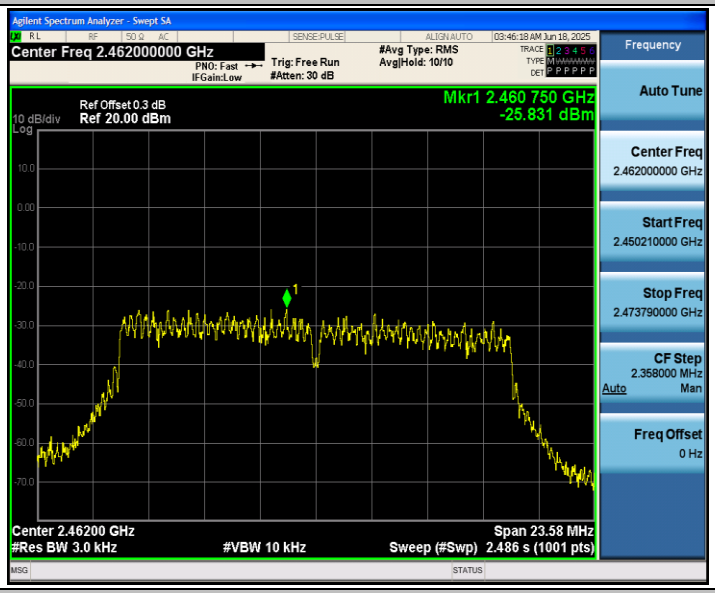
11G_Ant1_2412



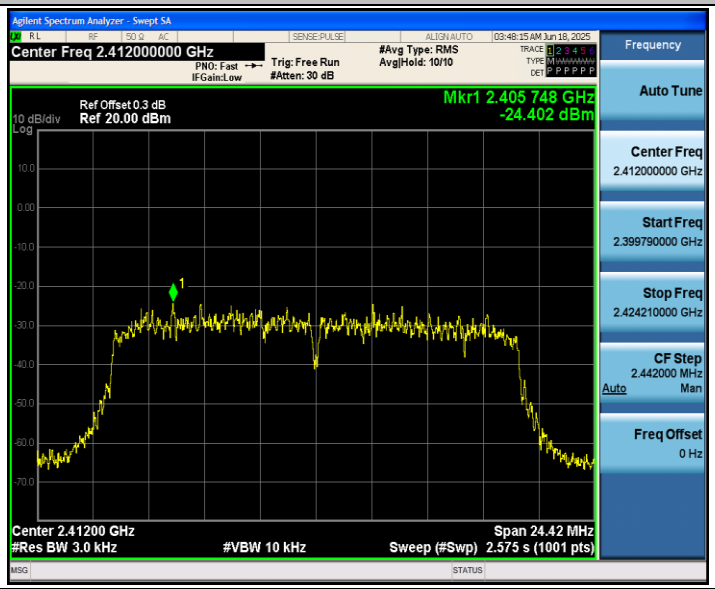

11G_Ant1_2437



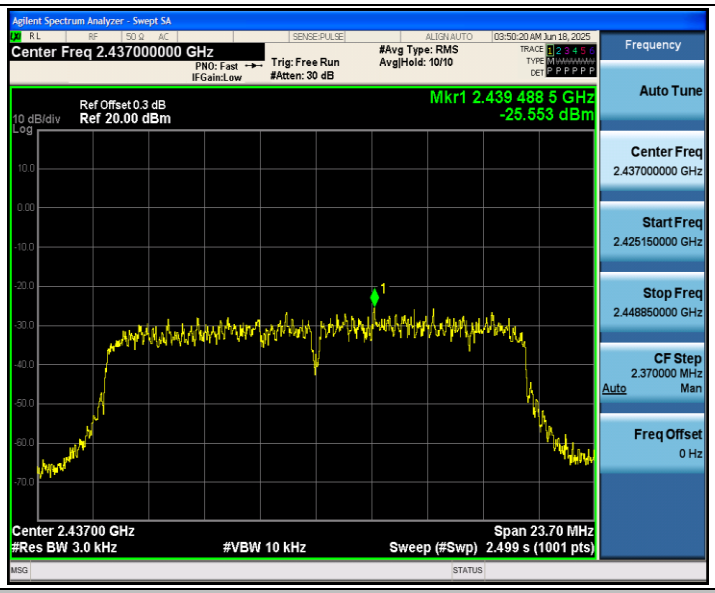
11G_Ant1_2462



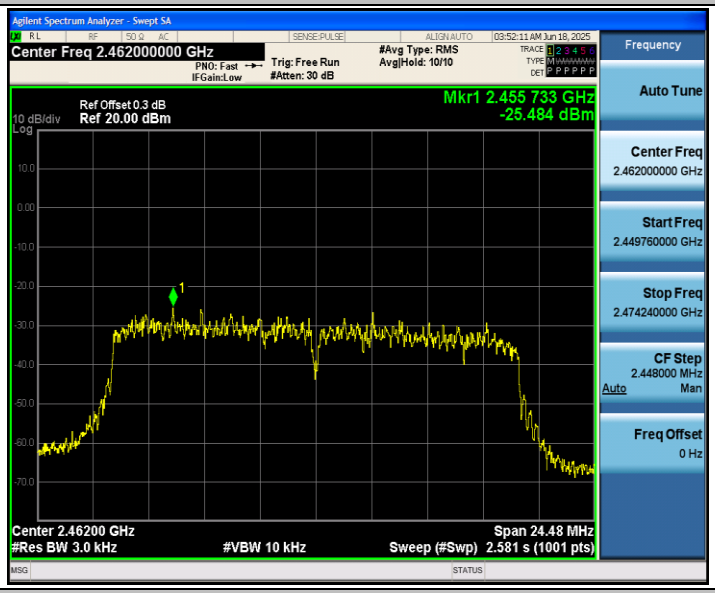

11N20SISO_Ant1_2412



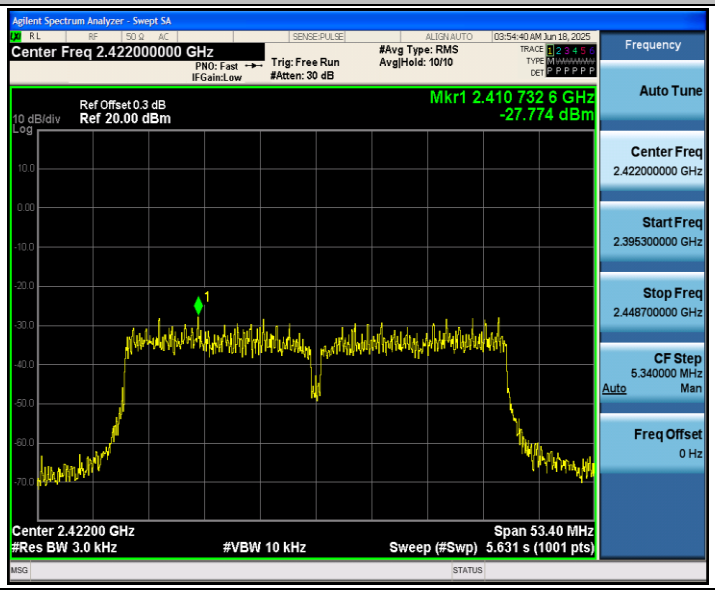

11N20SISO_Ant1_2437

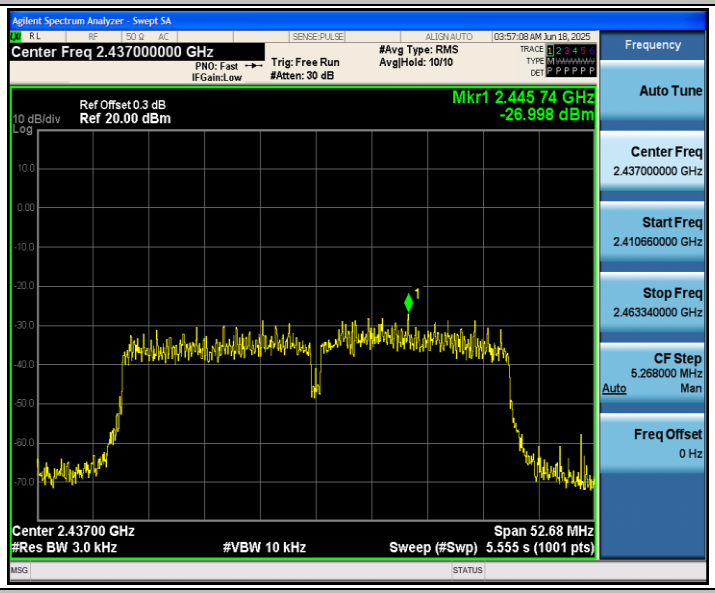



11N20SISO_Ant1_2462




11N40SISO_Ant1_2422



| 11N40SISO_Ant1_2437 |
| --- |
|  |



| 11N40SISO_Ant1_2452 |
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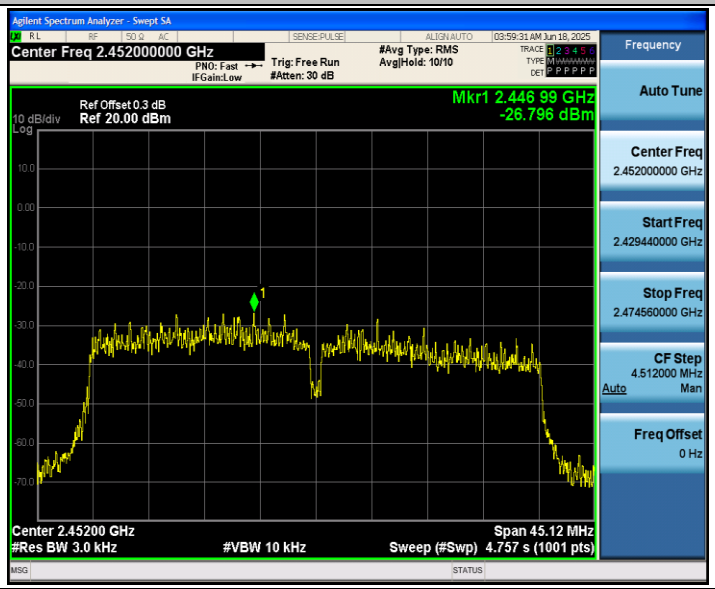
|  |

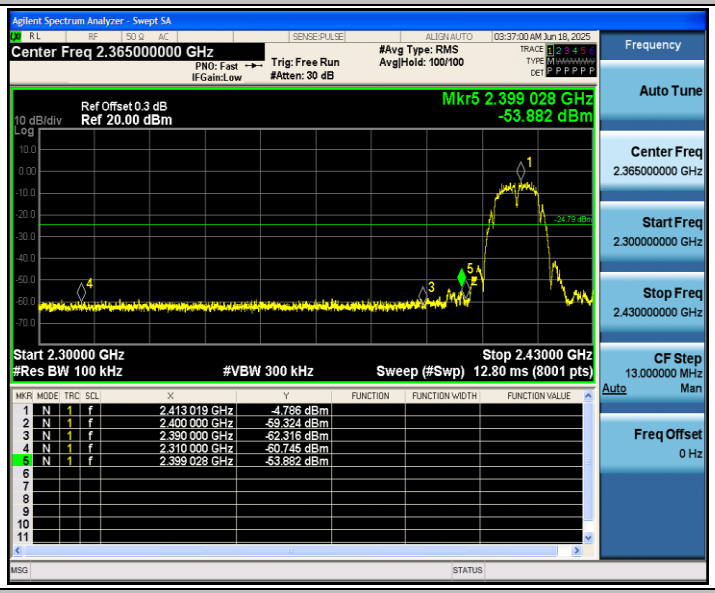
# Appendix E: Band edge measurements

## Test Result

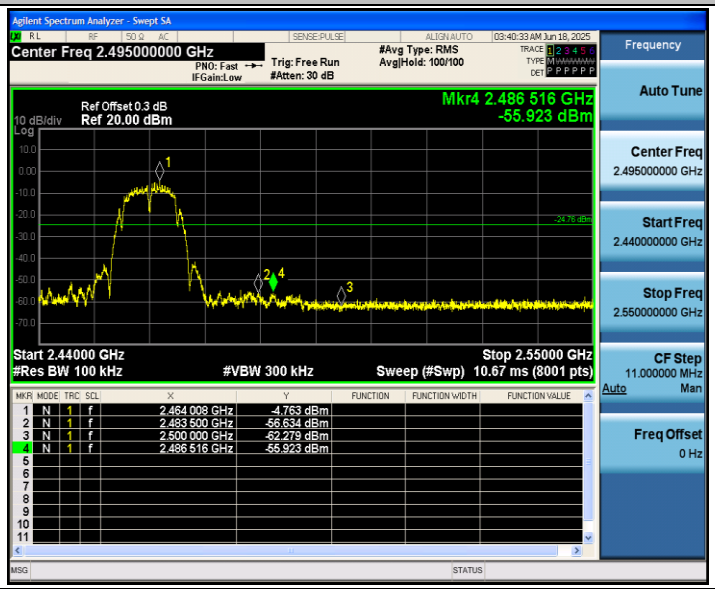
| TestMode | Antenna | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|---|---|---|---|---|---|---|---|
| 11B | Ant1 | Low | 2412 | -4.79 | -53.88 | ≤-24.79 | PASS |
| | | High | 2462 | -4.76 | -55.92 | ≤-24.76 | PASS |
| 11G | Ant1 | Low | 2412 | -8.57 | -40.67 | ≤-28.57 | PASS |
| | | High | 2462 | -9.21 | -55.65 | ≤-29.21 | PASS |
| 11N20SISO | Ant1 | Low | 2412 | -8.53 | -42.72 | ≤-28.53 | PASS |
| | | High | 2462 | -9.46 | -54.74 | ≤-29.46 | PASS |
| 11N40SISO | Ant1 | Low | 2422 | -12.03 | -42.85 | ≤-32.03 | PASS |
| | | High | 2452 | -10.54 | -48.43 | ≤-30.54 | PASS |

## Test Graphs

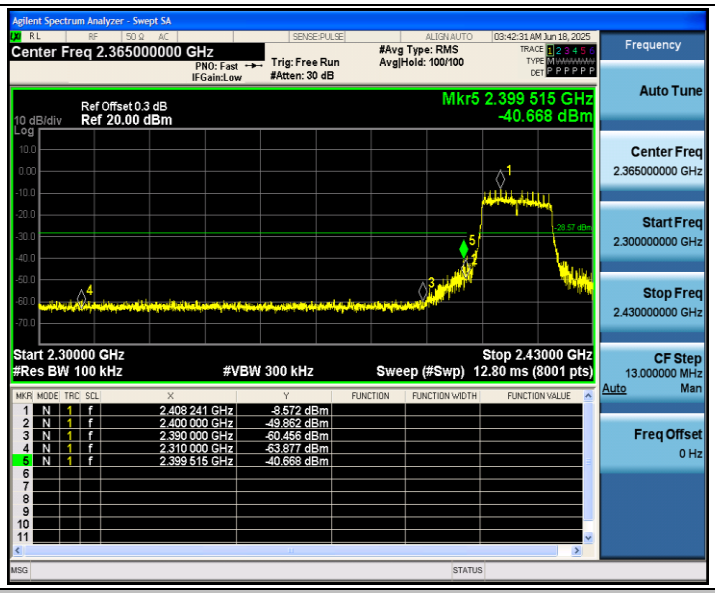
11B_Ant1_Low_2412



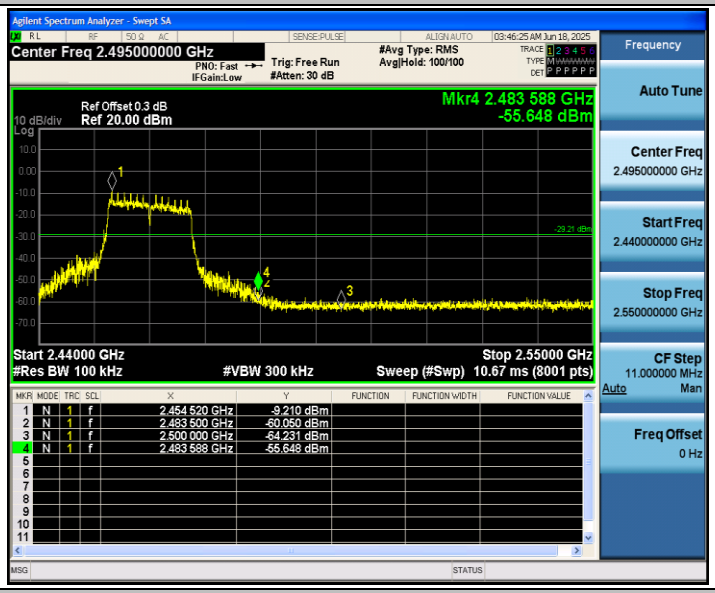

11B_Ant1_High_2462



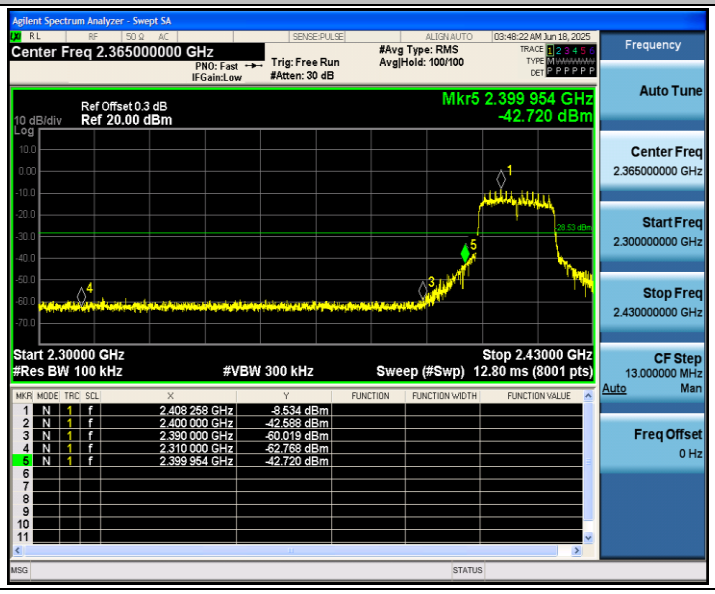

11G_Ant1_Low_2412



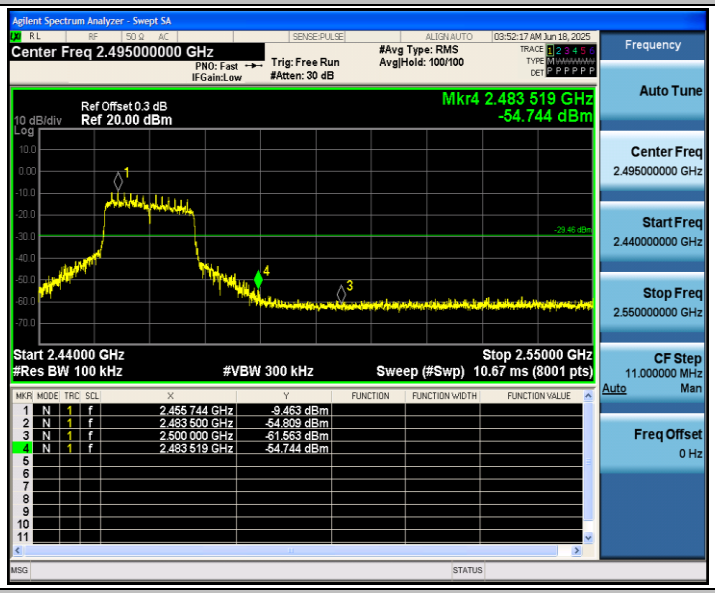

11G_Ant1_High_2462



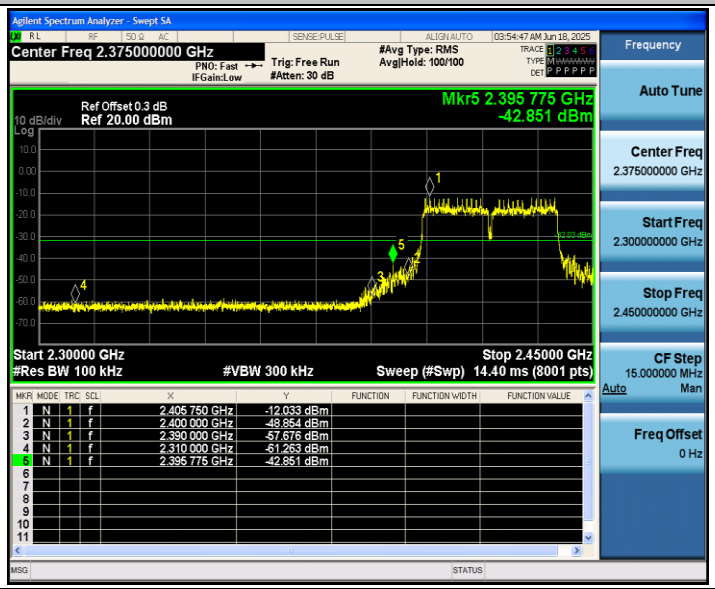

11N20SISO_Ant1_Low_2412



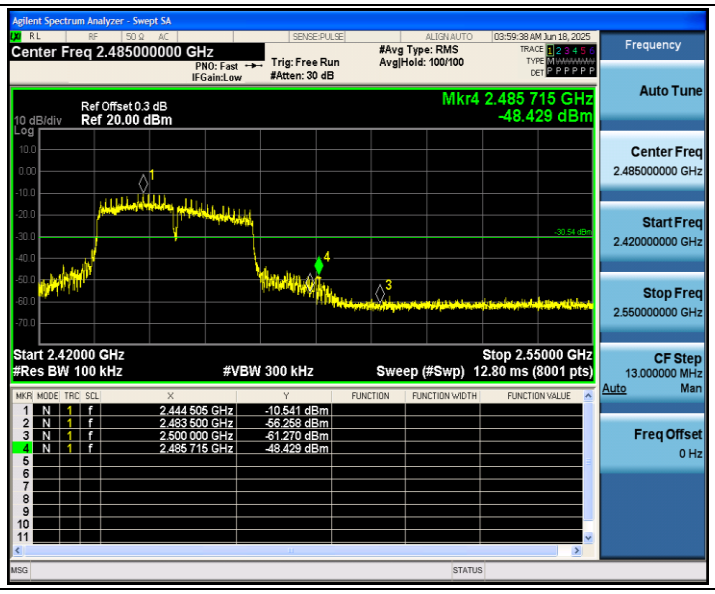
11N20SISO_Ant1_High_2462




11N40SISO_Ant1_Low_2422




11N40SISO_Ant1_High_2452


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.485000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 100/100
03:59:38 AM Jun 18, 2025
Ref Offset 0.3 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr4 2.485 715 GHz
-48.429 dBm
-30.54 dBm
Start 2.42000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.55000 GHz
Sweep (#Swp) 12.80 ms (8001 pts)
1 N 1 f 2.444 505 GHz -10.541 dBm
2 N 1 f 2.483 500 GHz -56.258 dBm
3 N 1 f 2.500 000 GHz -61.270 dBm
4 N 1 f 2.485 715 GHz -48.429 dBm
Frequency
Auto Tune
Center Freq
2.485000000 GHz
Start Freq
2.420000000 GHz
Stop Freq
2.550000000 GHz
CF Step
13.000000 MHz
Auto
Man
Freq Offset
0 Hz

# Appendix F: Conducted Spurious Emission

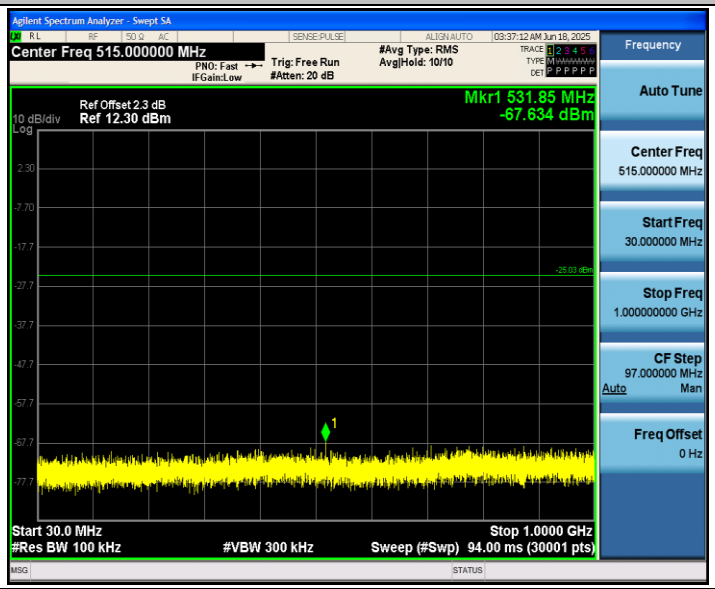
## Test Result

| TestMode | Antenna | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|---|---|---|---|---|---|---|---|
| 11B | Ant1 | 2412 | Reference | -5.03 | -5.03 | --- | PASS |
| | | | 30~1000 | -5.03 | -67.63 | ≤-25.03 | PASS |
| | | | 1000~26500 | -5.03 | -48.85 | ≤-25.03 | PASS |
| | | 2437 | Reference | -5.07 | -5.07 | --- | PASS |
| | | | 30~1000 | -5.07 | -68.09 | ≤-25.07 | PASS |
| | | | 1000~26500 | -5.07 | -47.16 | ≤-25.07 | PASS |
| | | 2462 | Reference | -7.18 | -7.18 | --- | PASS |
| | | | 30~1000 | -7.18 | -68.33 | ≤-27.18 | PASS |
| | | | 1000~26500 | -7.18 | -42.2 | ≤-27.18 | PASS |
| 11G | Ant1 | 2412 | Reference | -9.75 | -9.75 | --- | PASS |
| | | | 30~1000 | -9.75 | -68.63 | ≤-29.75 | PASS |
| | | | 1000~26500 | -9.75 | -54.81 | ≤-29.75 | PASS |
| | | 2437 | Reference | -10.60 | -10.60 | --- | PASS |
| | | | 30~1000 | -10.60 | -67.64 | ≤-30.6 | PASS |
| | | | 1000~26500 | -10.60 | -49.07 | ≤-30.6 | PASS |
| | | 2462 | Reference | -10.62 | -10.62 | --- | PASS |
| | | | 30~1000 | -10.62 | -66.1 | ≤-30.62 | PASS |
| | | | 1000~26500 | -10.62 | -52.84 | ≤-30.62 | PASS |
| 11N20SISO | Ant1 | 2412 | Reference | -9.01 | -9.01 | --- | PASS |
| | | | 30~1000 | -9.01 | -67.47 | ≤-29.01 | PASS |
| | | | 1000~26500 | -9.01 | -52.02 | ≤-29.01 | PASS |
| | | 2437 | Reference | -9.25 | -9.25 | --- | PASS |
| | | | 30~1000 | -9.25 | -68.1 | ≤-29.25 | PASS |
| | | | 1000~26500 | -9.25 | -55.22 | ≤-29.25 | PASS |
| | | 2462 | Reference | -10.25 | -10.25 | --- | PASS |
| | | | 30~1000 | -10.25 | -67.71 | ≤-30.25 | PASS |
| | | | 1000~26500 | -10.25 | -52.91 | ≤-30.25 | PASS |
| 11N40SISO | Ant1 | 2422 | Reference | -12.03 | -12.03 | --- | PASS |
| | | | 30~1000 | -12.03 | -68.21 | ≤-32.03 | PASS |
| | | | 1000~26500 | -12.03 | -55.06 | ≤-32.03 | PASS |
| | | 2437 | Reference | -11.50 | -11.50 | --- | PASS |
| | | | 30~1000 | -11.50 | -67.86 | ≤-31.5 | PASS |
| | | | 1000~26500 | -11.50 | -55.25 | ≤-31.5 | PASS |
| | | 2452 | Reference | -10.50 | -10.50 | --- | PASS |
| | | | 30~1000 | -10.50 | -67.48 | ≤-30.5 | PASS |
| | | | 1000~26500 | -10.50 | -52.53 | ≤-30.5 | PASS |

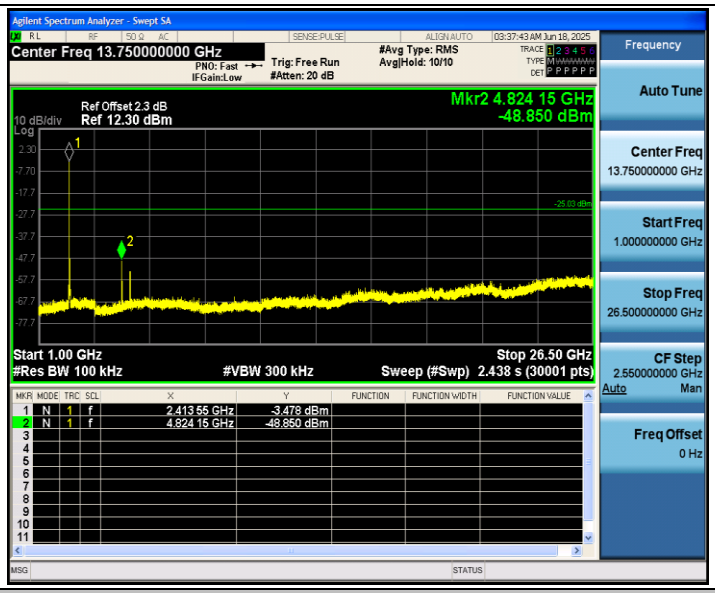
## Test Graphs

11B_Ant1_2412_0~Reference

11B_Ant1_2412_30~1000

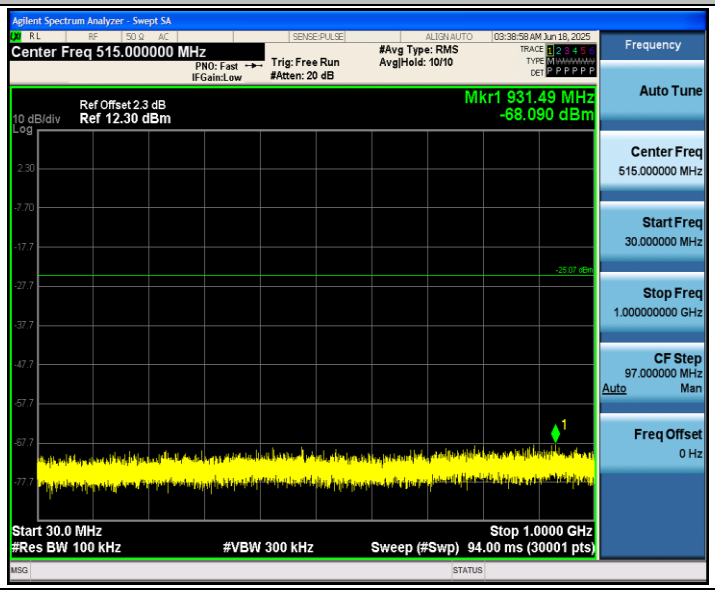



11B_Ant1_2412_1000~26500

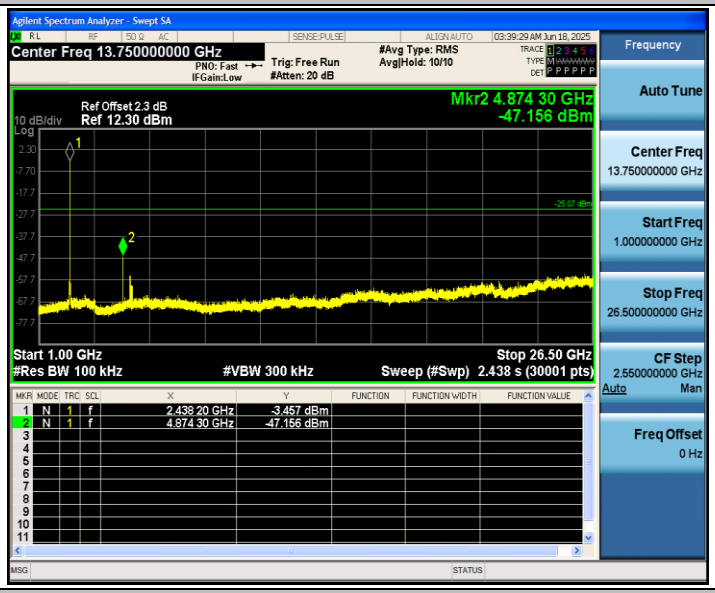



11B_Ant1_2437_0~Reference

11B_Ant1_2437_30~1000

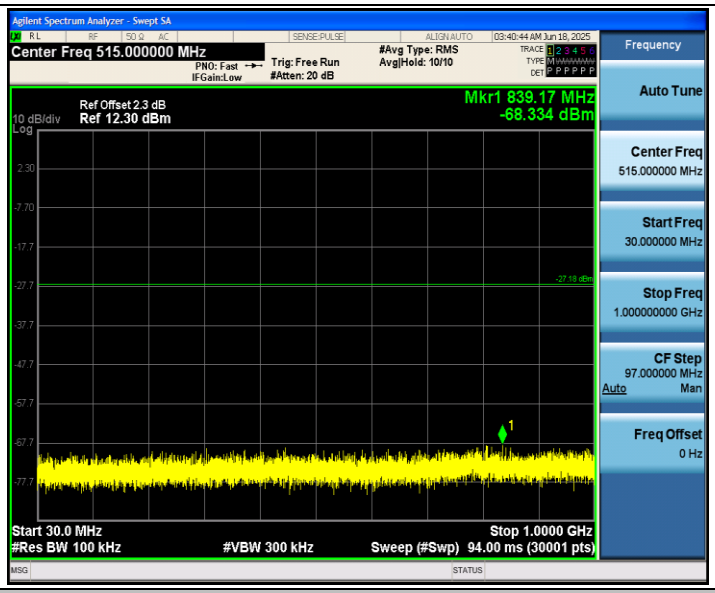


11B_Ant1_2437_1000~26500

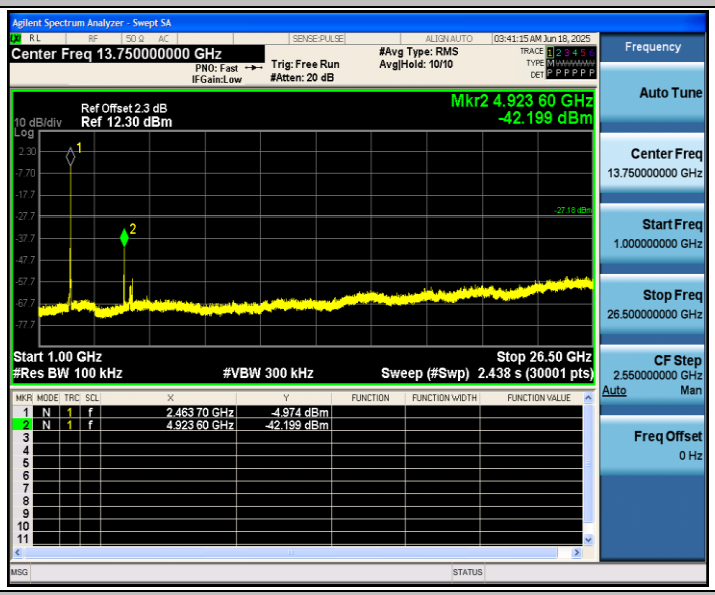



11B_Ant1_2462_0~Reference

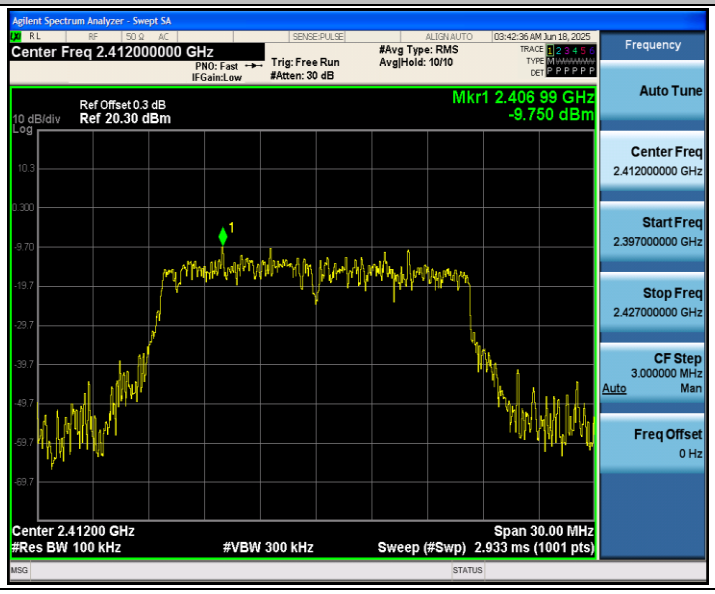
11B_Ant1_2462_30~1000



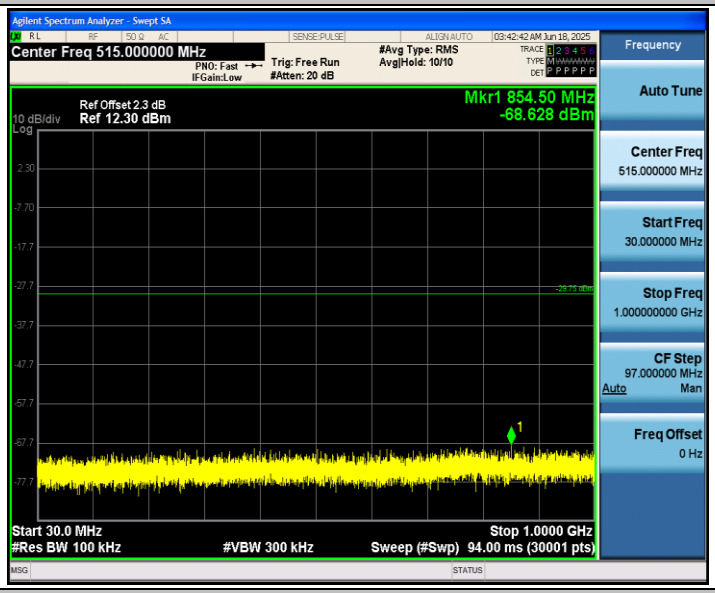

11B_Ant1_2462_1000~26500



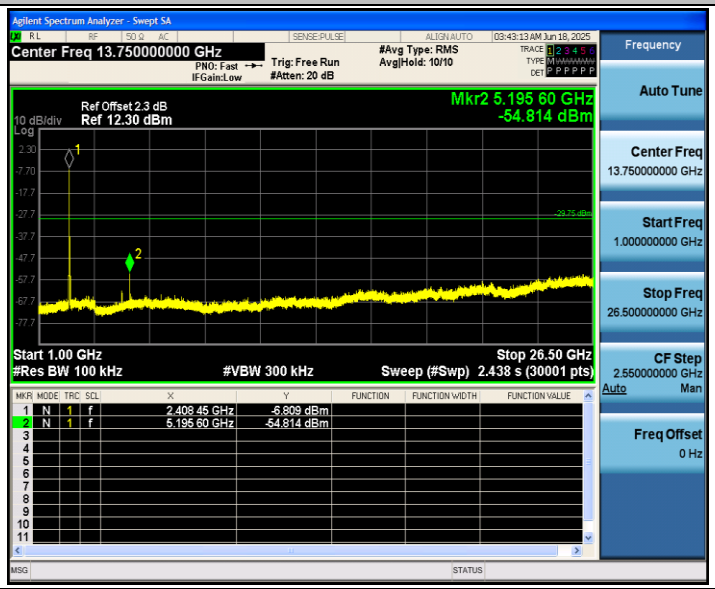

11G_Ant1_2412_0~Reference



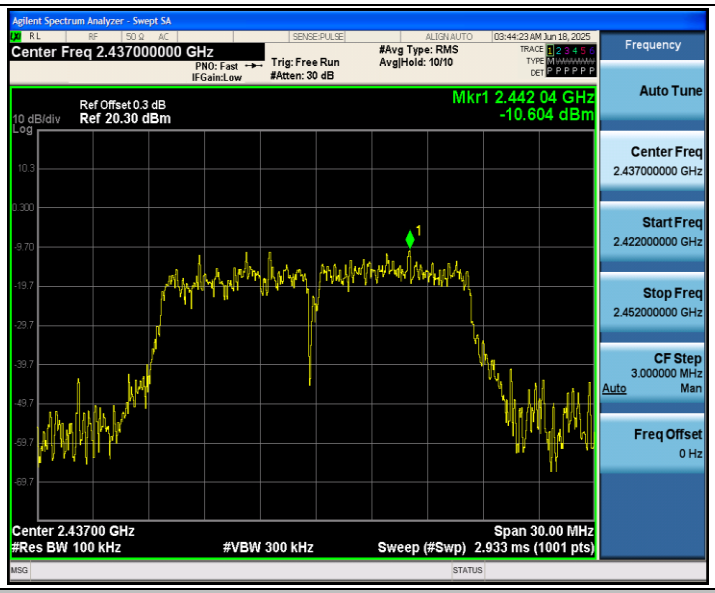
11G_Ant1_2412_30~1000



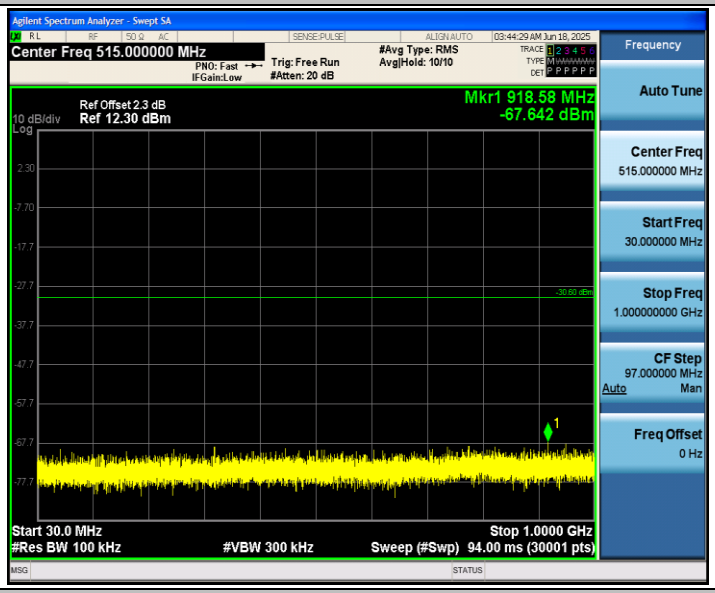

11G_Ant1_2412_1000~26500



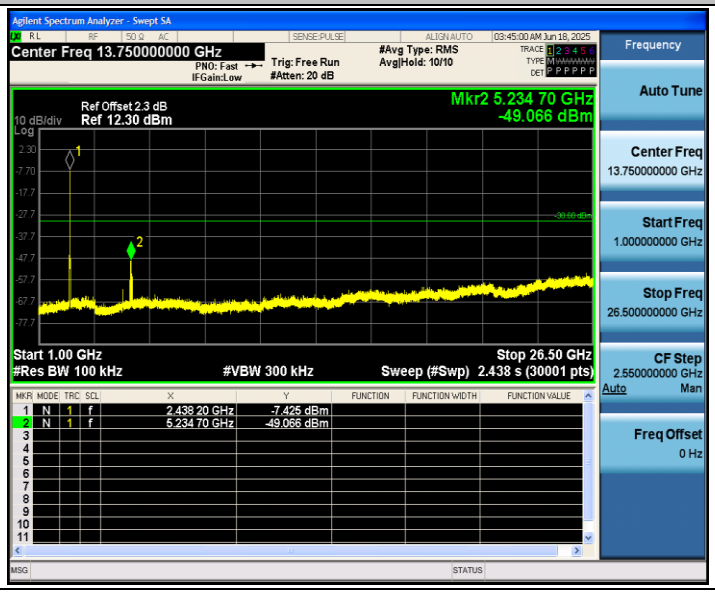

11G_Ant1_2437_0~Reference



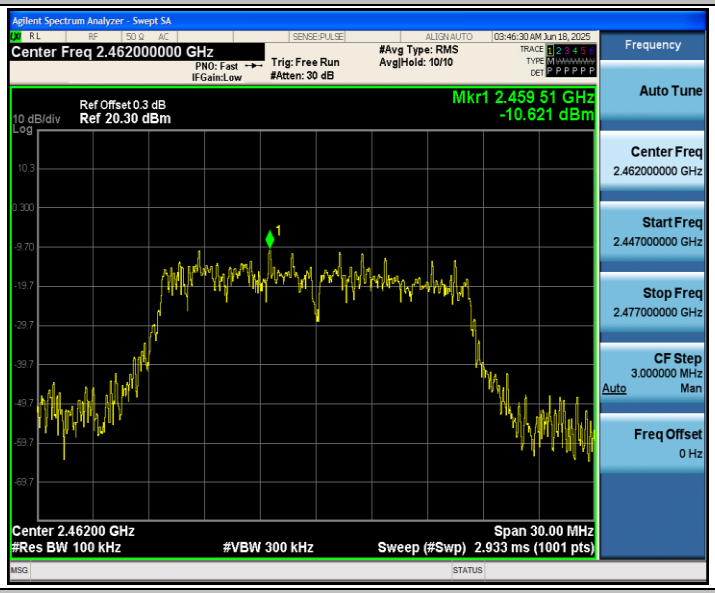

11G_Ant1_2437_30~1000



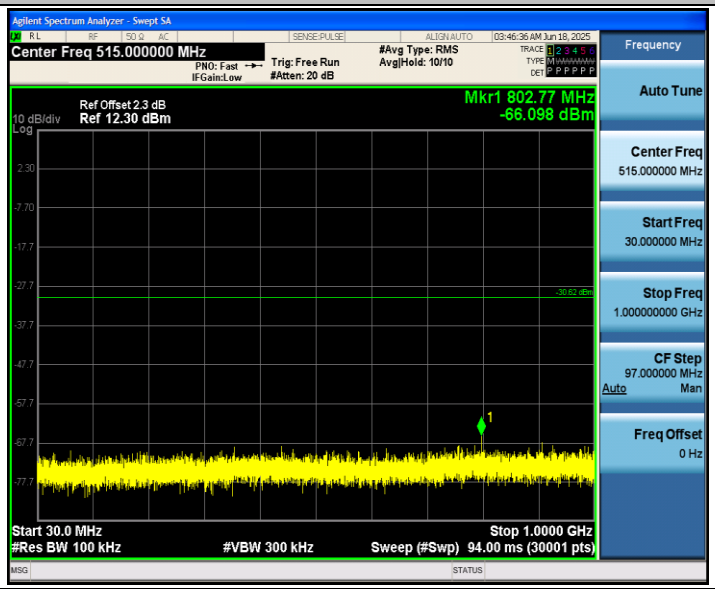

11G_Ant1_2437_1000~26500



11G_Ant1_2462_0~Reference




11G_Ant1_2462_30~1000

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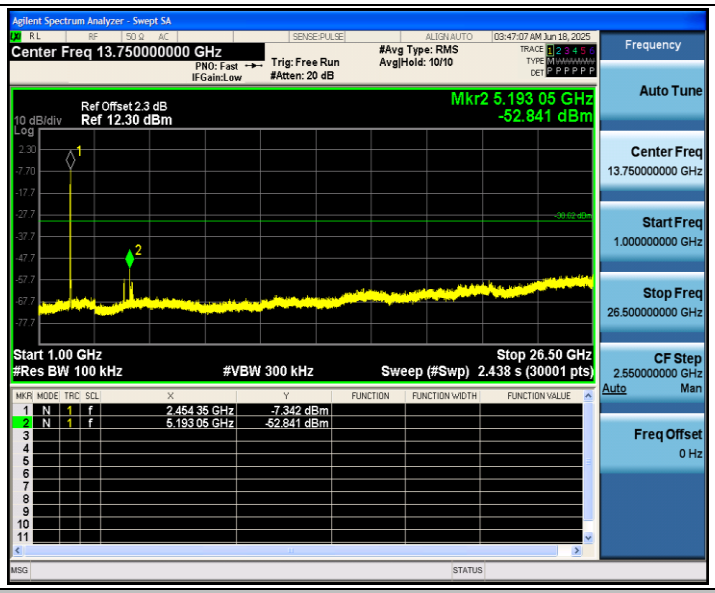
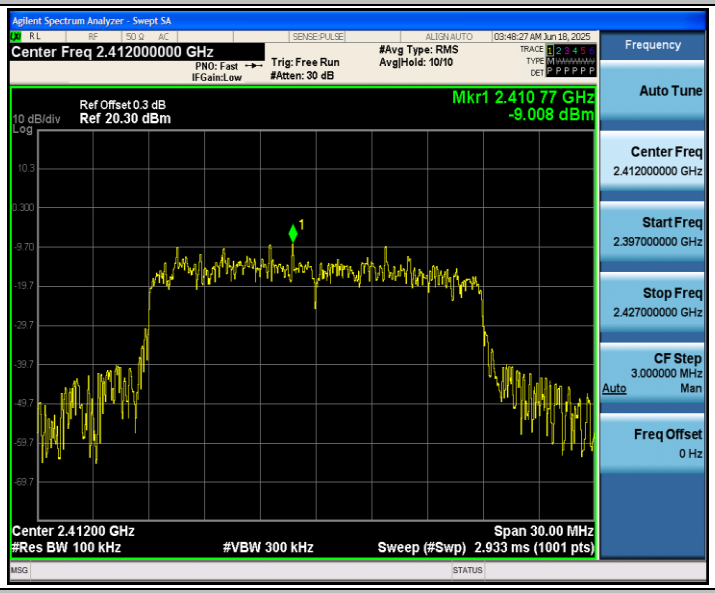
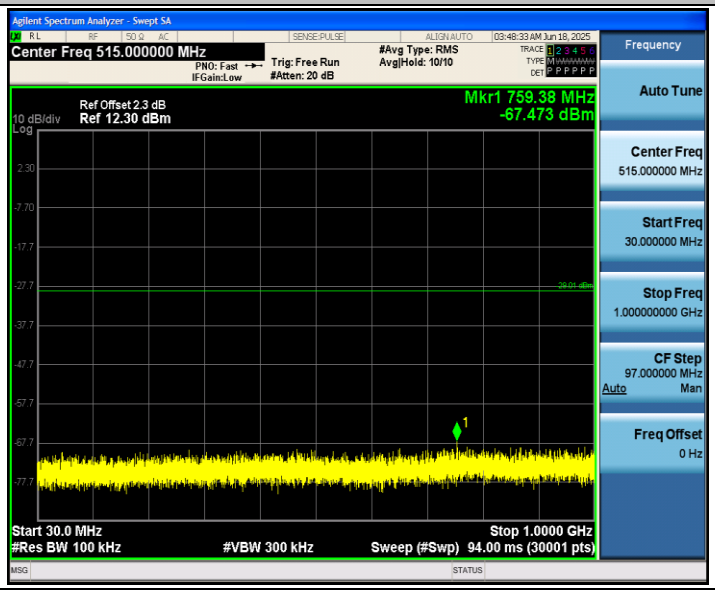



11N20SISO_Ant1_2412_0~Reference




11N20SISO_Ant1_2412_30~1000