| | |
|---|---|
| **Case No. :** GTS20250410010-1-03 | |
| **Ambient Condition**: 22 ℃, 52 %RH, | |
| **Test Date:** 2025.5.16 | **Test Engineer:** Evan ouyang |

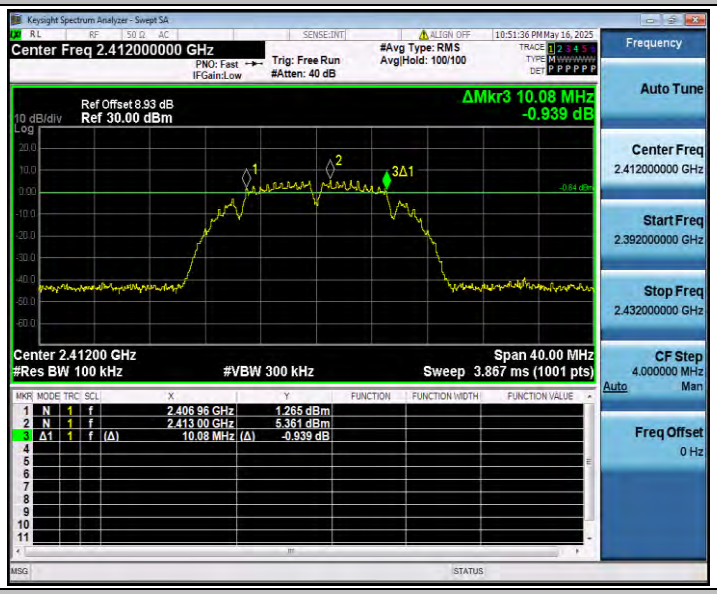
# Appendix C.1: DTS Bandwidth

## Test Result

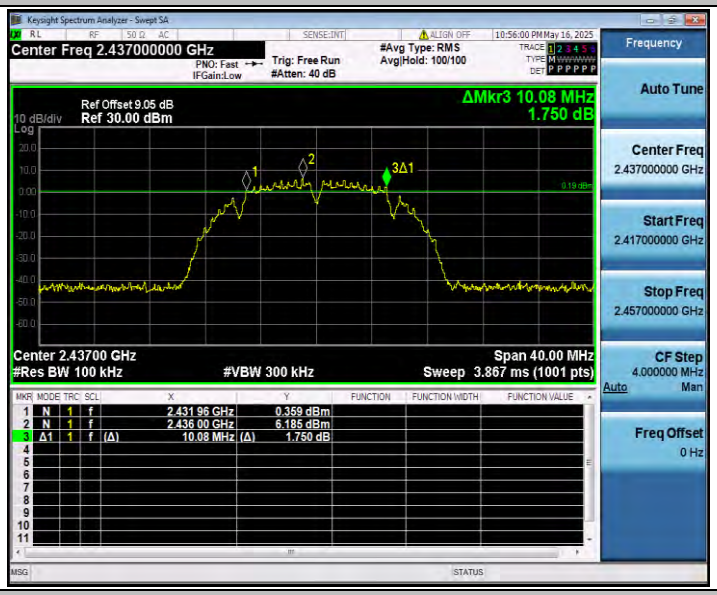
| TestMode | Antenna | Frequency[MHz] | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|---|---|
| 11B | Ant0 | 2412 | 10.080 | 2406.960 | 2417.040 | 0.5 | PASS |
| | | 2437 | 10.080 | 2431.960 | 2442.040 | 0.5 | PASS |
| | | 2462 | 10.000 | 2457.000 | 2467.000 | 0.5 | PASS |
| 11G | Ant0 | 2412 | 15.000 | 2404.560 | 2419.560 | 0.5 | PASS |
| | | 2437 | 11.640 | 2431.640 | 2443.280 | 0.5 | PASS |
| | | 2462 | 13.880 | 2455.680 | 2469.560 | 0.5 | PASS |
| 11N20SISO | Ant0 | 2412 | 15.360 | 2404.120 | 2419.480 | 0.5 | PASS |
| | | 2437 | 17.560 | 2428.240 | 2445.800 | 0.5 | PASS |
| | | 2462 | 17.560 | 2453.240 | 2470.800 | 0.5 | PASS |
| 11N40SISO | Ant0 | 2422 | 33.120 | 2405.760 | 2438.880 | 0.5 | PASS |
| | | 2437 | 32.480 | 2422.040 | 2454.520 | 0.5 | PASS |
| | | 2452 | 29.840 | 2435.680 | 2465.520 | 0.5 | PASS |

## Test Graphs

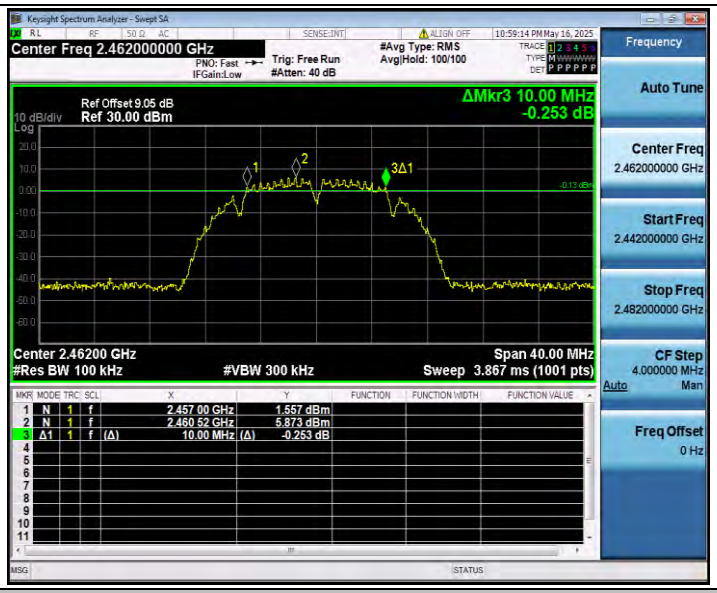
11B_Ant0_2412




11B_Ant0_2437




11B_Ant0_2462

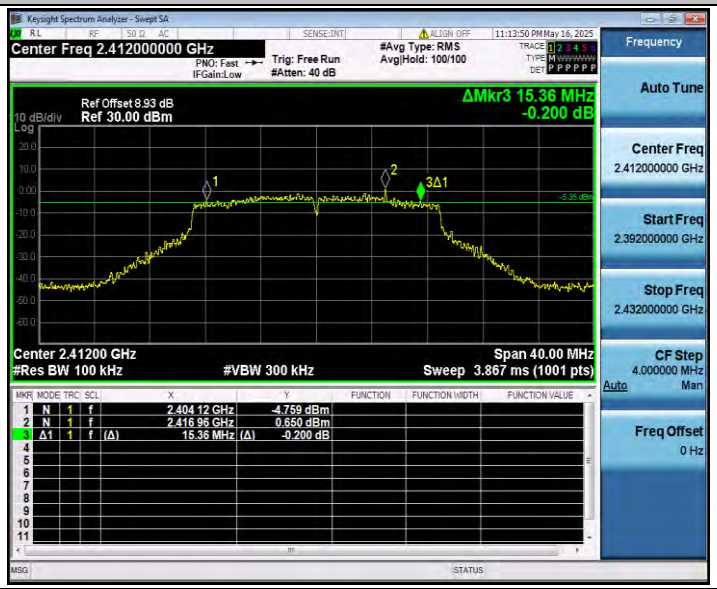



11G_Ant0_2412

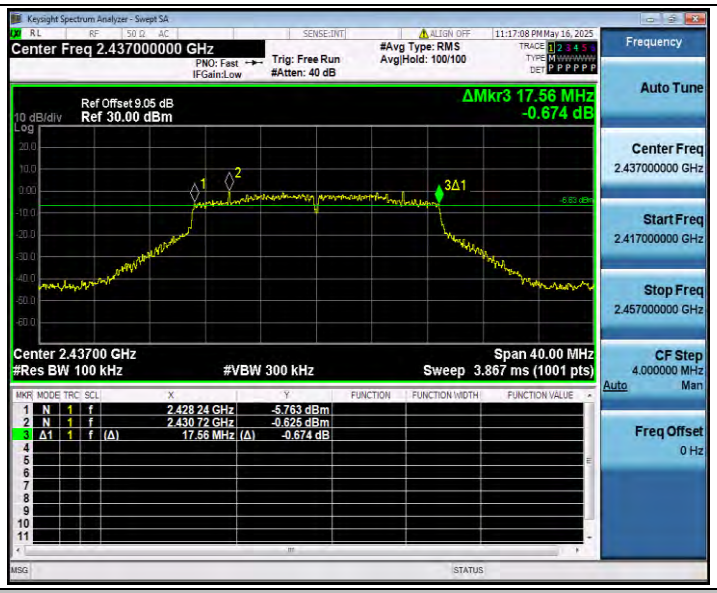
11G_Ant0_2437

11G_Ant0_2462

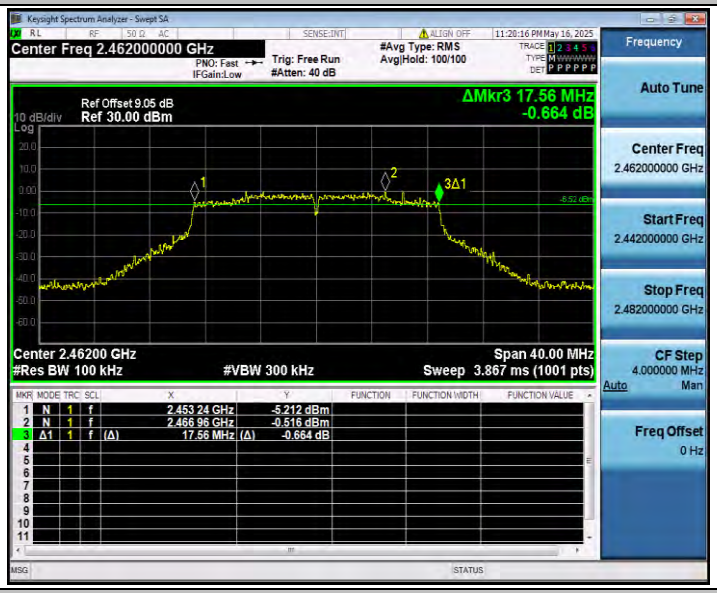
11N20SISO_Ant0_2412



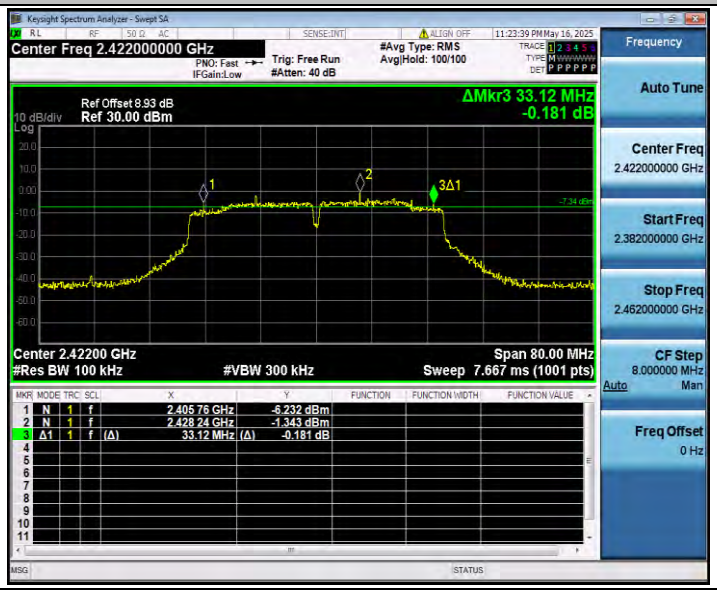

11N20SISO_Ant0_2437

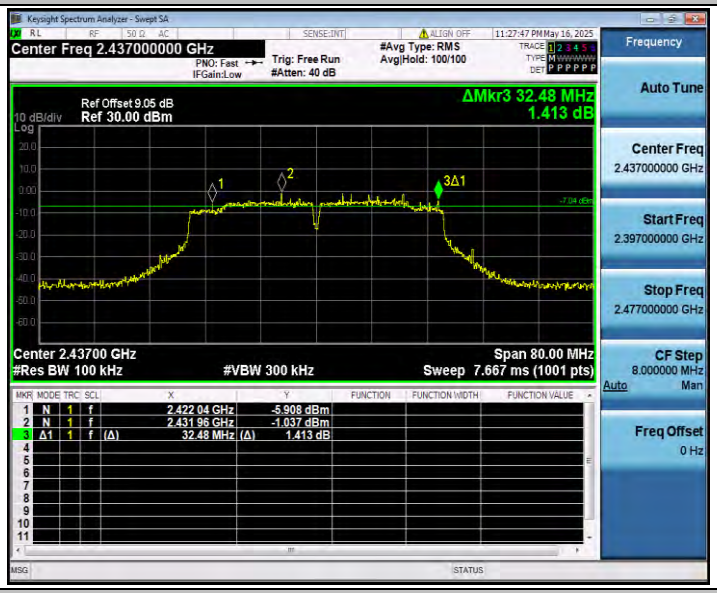



11N20SISO_Ant0_2462

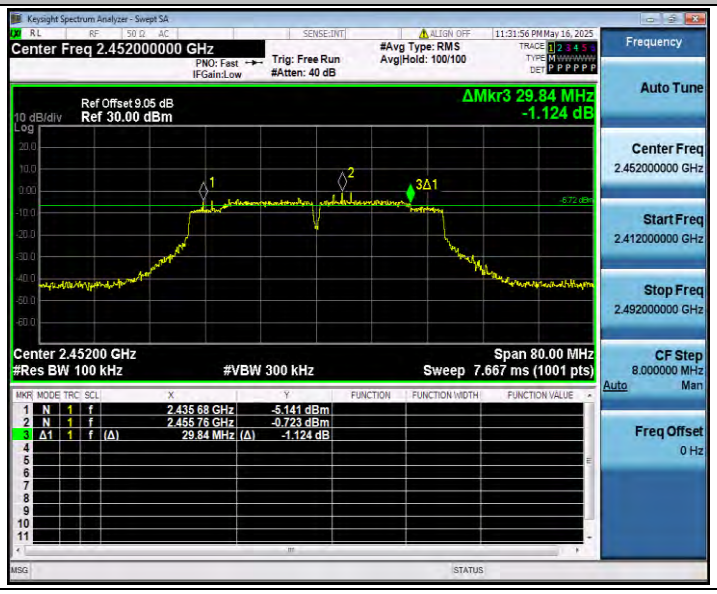



11N40SISO_Ant0_2422



| 11N40SISO_Ant0_2437 |
| --- |
|  |



| 11N40SISO_Ant0_2452 |
| --- |
|  |

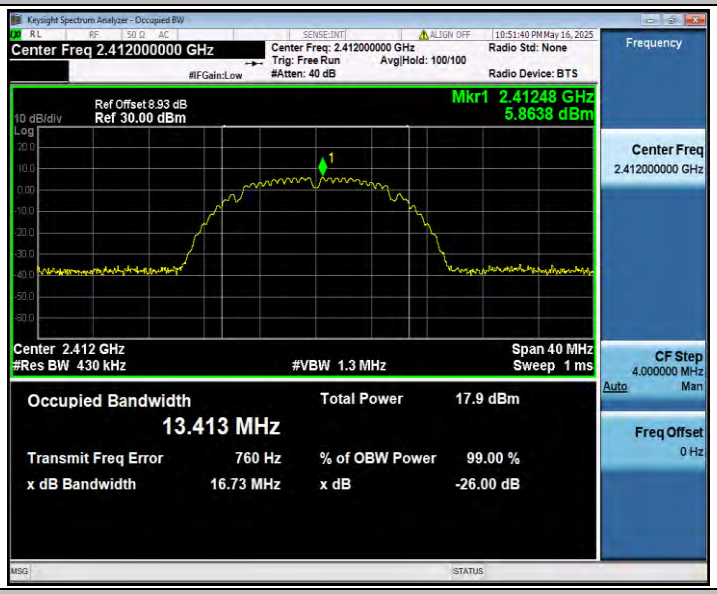
# Appendix C.2: Occupied Channel Bandwidth

## Test Result

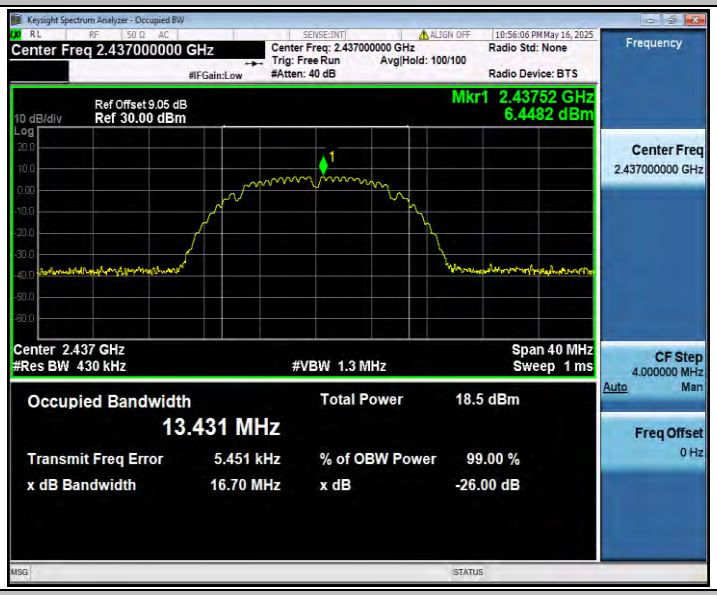
| TestMode | Antenna | Channel Frequency[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|---|---|
| 11B | Ant0 | 2412 | 13.413 | 2405.2943 | 2418.7073 | --- | --- |
| | | 2437 | 13.431 | 2430.2900 | 2443.7210 | --- | --- |
| | | 2462 | 13.393 | 2455.2997 | 2468.6927 | --- | --- |
| 11G | Ant0 | 2412 | 16.870 | 2403.5526 | 2420.4226 | --- | --- |
| | | 2437 | 16.894 | 2428.5971 | 2445.4911 | --- | --- |
| | | 2462 | 16.847 | 2453.5685 | 2470.4155 | --- | --- |
| 11N20SISO | Ant0 | 2412 | 17.891 | 2403.0739 | 2420.9649 | --- | --- |
| | | 2437 | 17.934 | 2428.0365 | 2445.9705 | --- | --- |
| | | 2462 | 17.885 | 2453.0834 | 2470.9684 | --- | --- |
| 11N40SISO | Ant0 | 2422 | 36.049 | 2404.1330 | 2440.1820 | --- | --- |
| | | 2437 | 36.119 | 2419.0391 | 2455.1581 | --- | --- |
| | | 2452 | 36.094 | 2434.0252 | 2470.1192 | --- | --- |

## Test Graphs

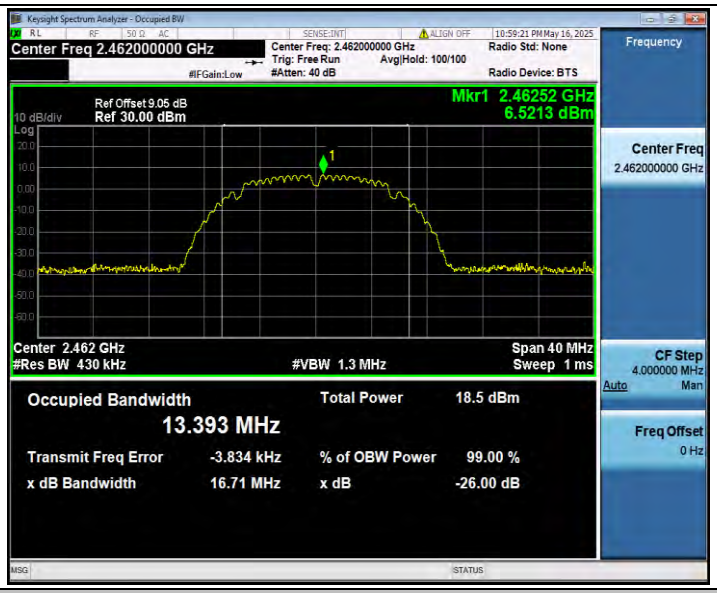
11B_Ant0_2412




11B_Ant0_2437



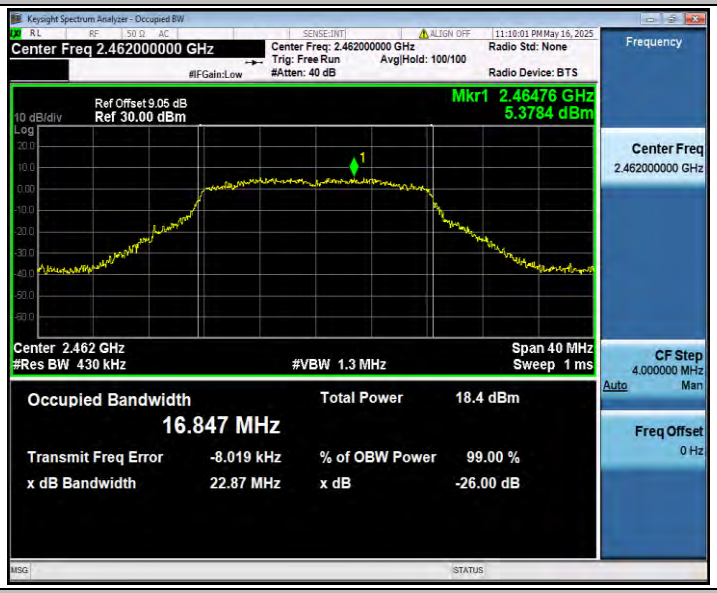

11B_Ant0_2462




11G_Ant0_2412

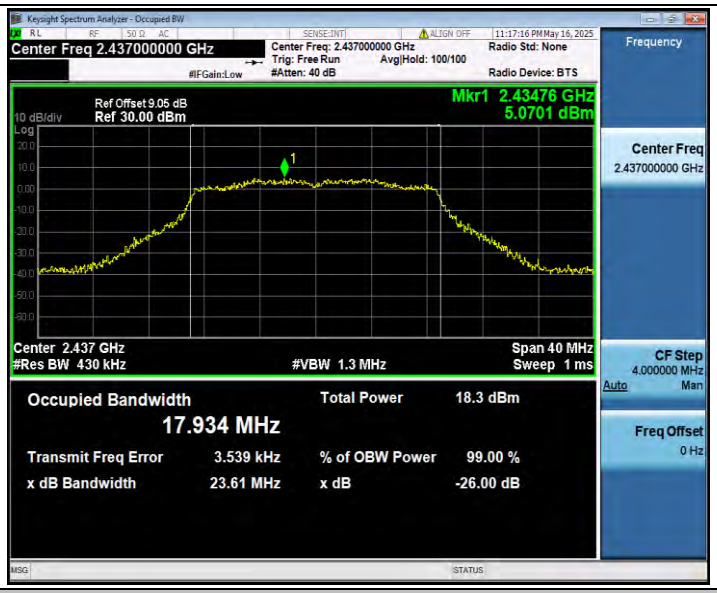
11G_Ant0_2437

11G_Ant0_2462




11N20SISO_Ant0_2412

11N20SISO_Ant0_2437




11N20SISO_Ant0_2462

11N40SISO_Ant0_2422

| 11N40SISO_Ant0_2437 |
| --- |
| |



| 11N40SISO_Ant0_2452 |
| --- |
| |

# Appendix C.3: Maximum conducted output power

| Test Mode | Antenna | Frequency[MHz] | Peak power [dBm] | Limit [dBm] | Verdict |
|---|---|---|---|---|---|
| 11B | Ant0 | 2412 | 17.96 | ≤30.00 | PASS |
| | | 2437 | 18.48 | ≤30.00 | PASS |
| | | 2462 | 18.52 | ≤30.00 | PASS |
| 11G | Ant0 | 2412 | 18.93 | ≤30.00 | PASS |
| | | 2437 | 19.35 | ≤30.00 | PASS |
| | | 2462 | 19.50 | ≤30.00 | PASS |
| 11N20SISO | Ant0 | 2412 | 18.77 | ≤30.00 | PASS |
| | | 2437 | 19.25 | ≤30.00 | PASS |
| | | 2462 | 19.33 | ≤30.00 | PASS |
| 11N40SISO | Ant0 | 2422 | 19.33 | ≤30.00 | PASS |
| | | 2437 | 19.48 | ≤30.00 | PASS |
| | | 2452 | 19.62 | ≤30.00 | PASS |

# Appendix C.4: Maximum power spectral density

## Test Result

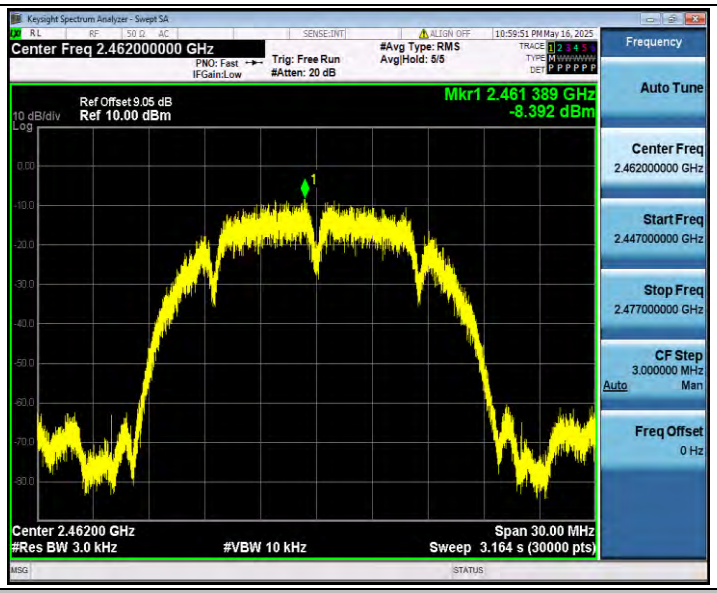
| TestMode | Antenna | Frequency[MHz] | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|---|---|---|---|---|---|
| 11B | Ant0 | 2412 | -8.74 | ≤8.00 | PASS |
| | | 2437 | -7.30 | ≤8.00 | PASS |
| | | 2462 | -8.39 | ≤8.00 | PASS |
| 11G | Ant0 | 2412 | -12.02 | ≤8.00 | PASS |
| | | 2437 | -12.87 | ≤8.00 | PASS |
| | | 2462 | -12.05 | ≤8.00 | PASS |
| 11N20SISO | Ant0 | 2412 | -13.43 | ≤8.00 | PASS |
| | | 2437 | -12.96 | ≤8.00 | PASS |
| | | 2462 | -13.24 | ≤8.00 | PASS |
| 11N40SISO | Ant0 | 2422 | -15.85 | ≤8.00 | PASS |
| | | 2437 | -15.35 | ≤8.00 | PASS |
| | | 2452 | -15.93 | ≤8.00 | PASS |

## Test Graphs

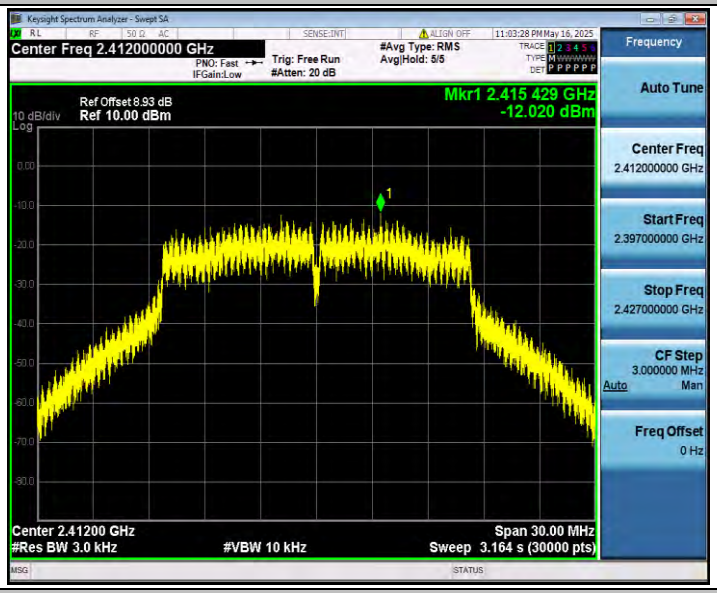
11B_Ant0_2412

11B_Ant0_2437

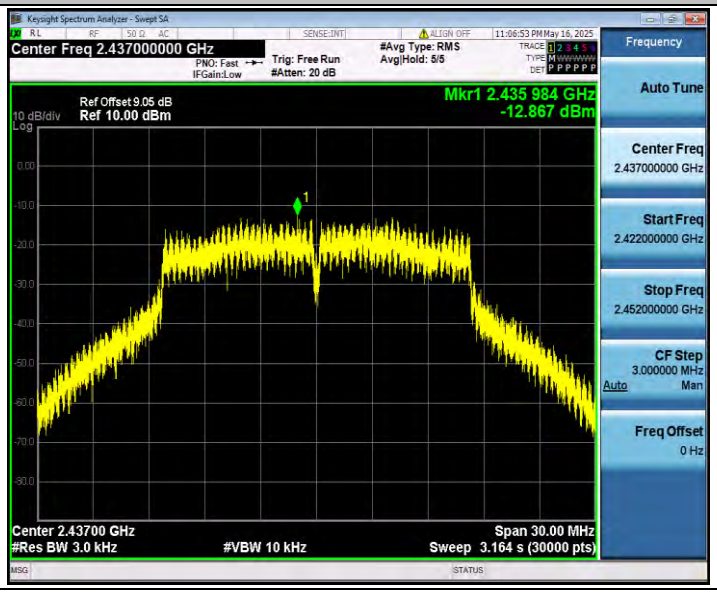
11B_Ant0_2462

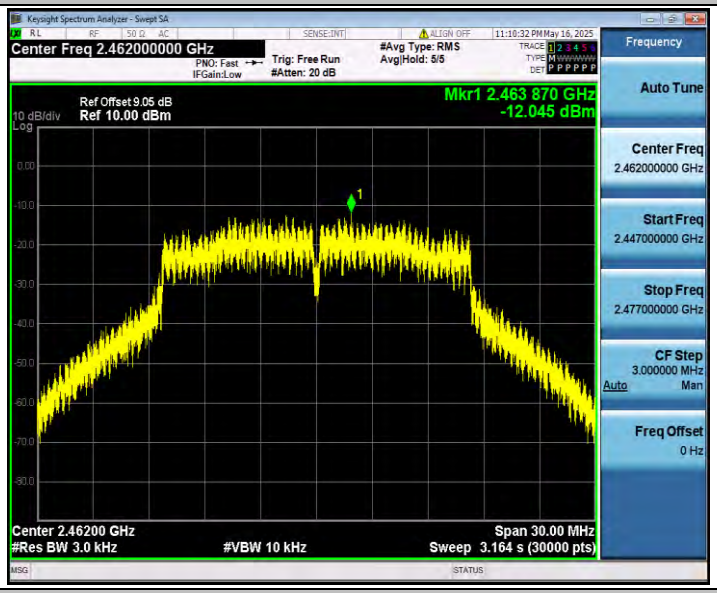
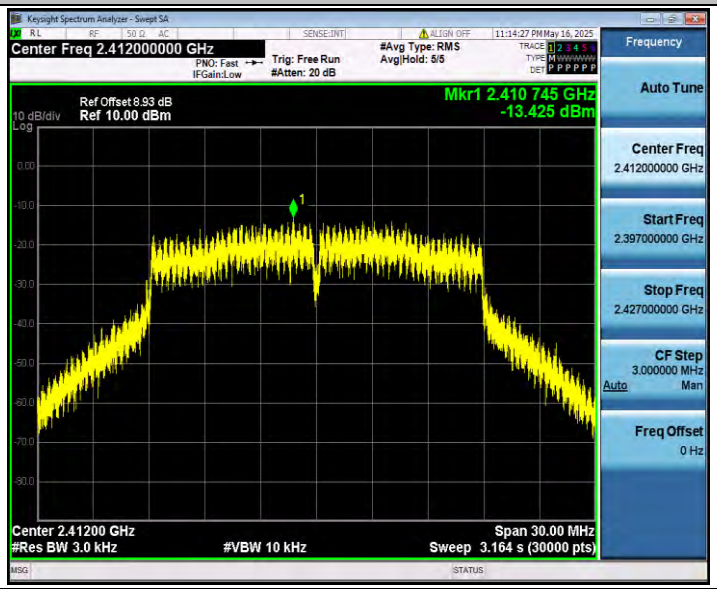


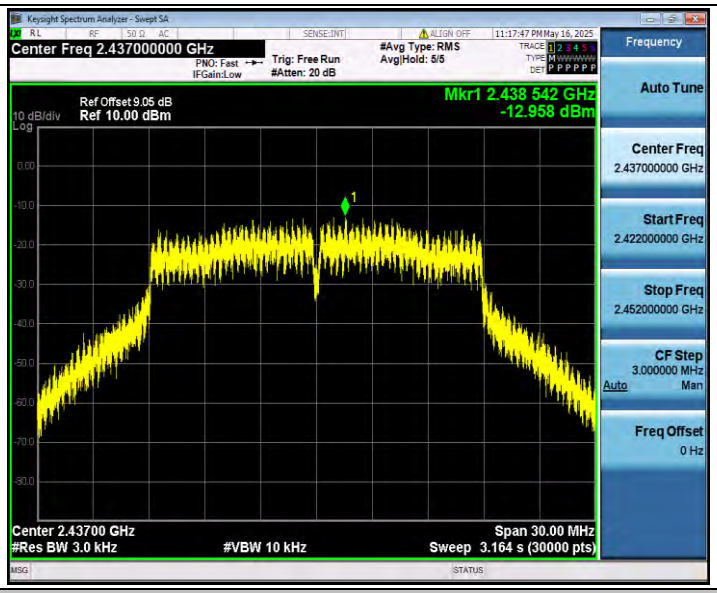

11G_Ant0_2412



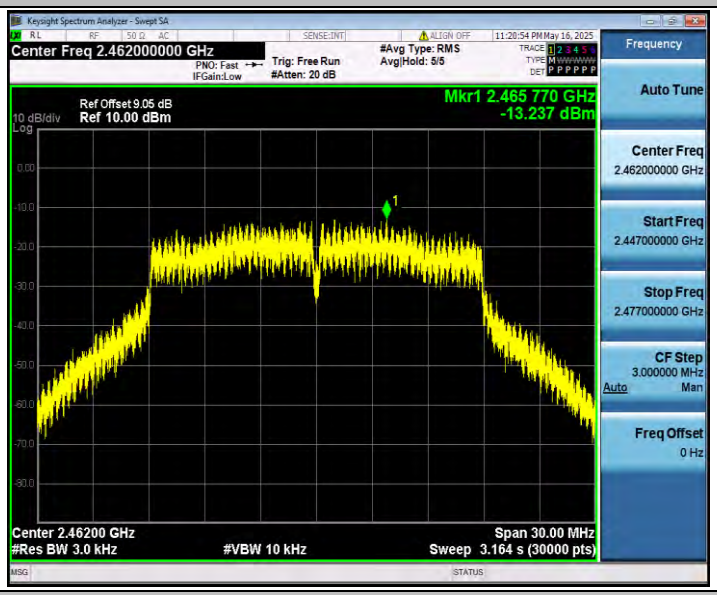

11G_Ant0_2437



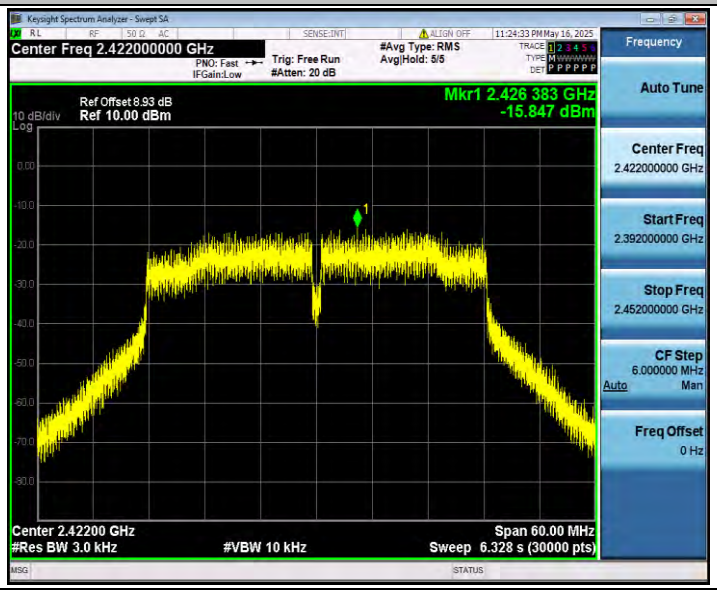
| 11G_Ant0_2462 |
| --- |
|  |
| 11N20SISO_Ant0_2412 |
|  |
| 11N20SISO_Ant0_2437 |

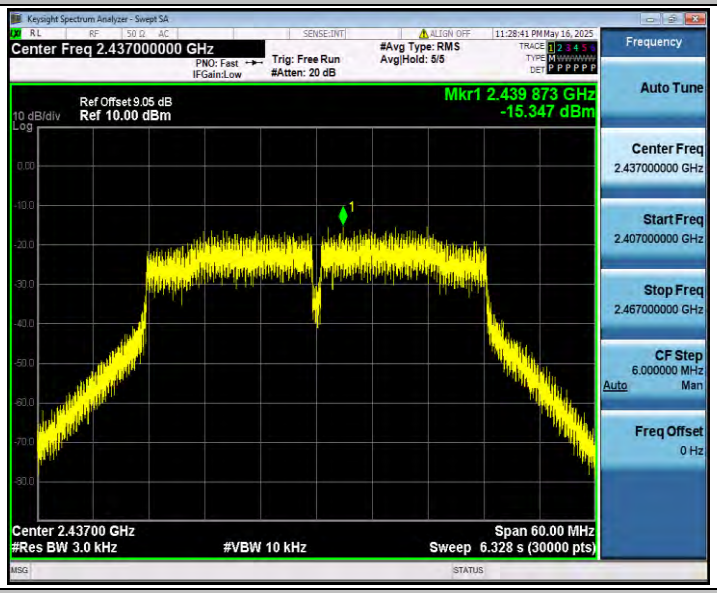



11N20SISO_Ant0_2462

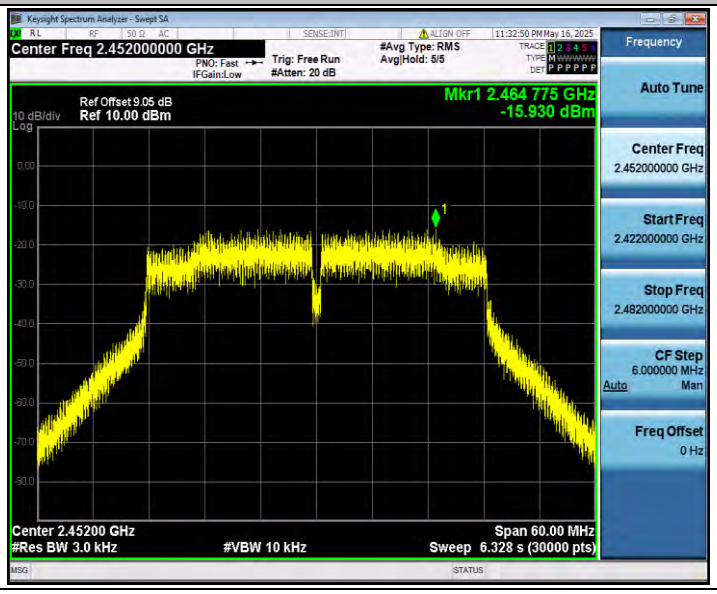



11N40SISO_Ant0_2422



| 11N40SISO_Ant0_2437 |
| --- |
|  |



| 11N40SISO_Ant0_2452 |
| --- |
|  |

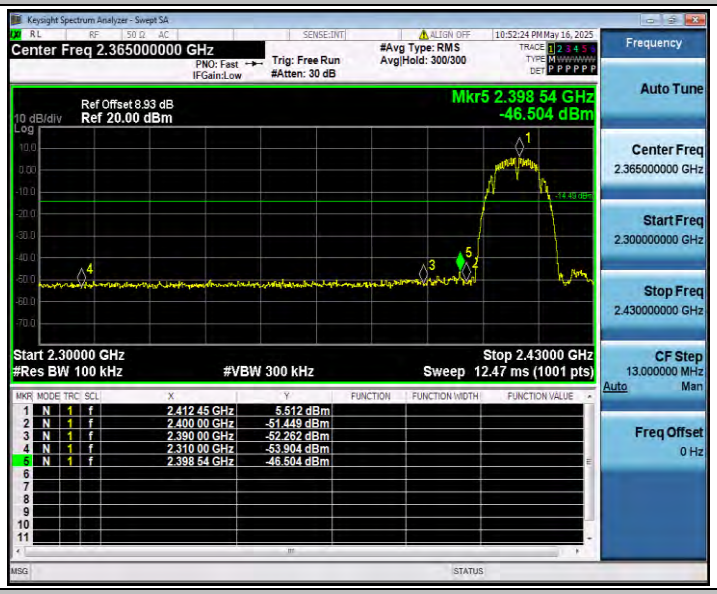
# Appendix C.5: Band edge measurements

## Test Result

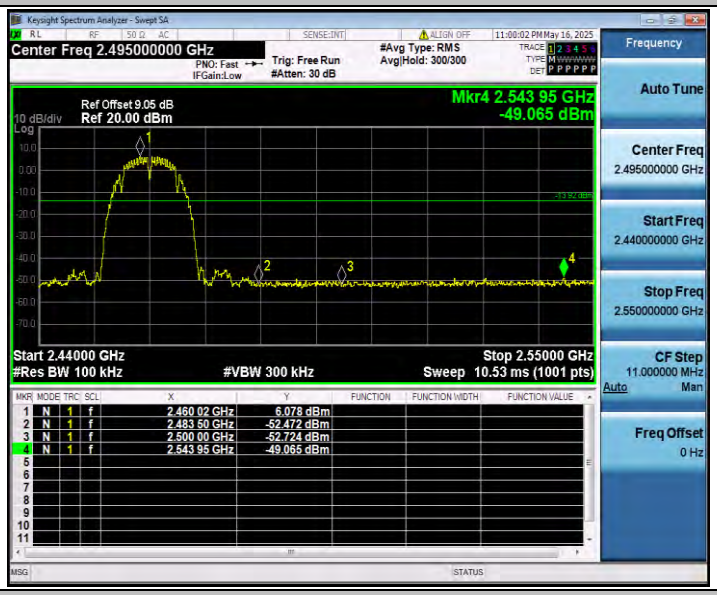
| TestMode | Antenna | ChName | Frequency[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|---|---|---|---|---|---|---|---|
| 11B | Ant0 | Low | 2412 | 5.51 | -46.5 | ≤-14.49 | PASS |
| | | High | 2462 | 6.08 | -49.07 | ≤-13.92 | PASS |
| 11G | Ant0 | Low | 2412 | 2.01 | -28.57 | ≤-18 | PASS |
| | | High | 2462 | 1.93 | -48.56 | ≤-18.07 | PASS |
| 11N20SISO | Ant0 | Low | 2412 | 1.69 | -26.84 | ≤-18.31 | PASS |
| | | High | 2462 | 2.15 | -48.99 | ≤-17.85 | PASS |
| 11N40SISO | Ant0 | Low | 2422 | -1.08 | -29.29 | ≤-21.08 | PASS |
| | | High | 2452 | -0.63 | -47.14 | ≤-20.63 | PASS |

## Test Graphs

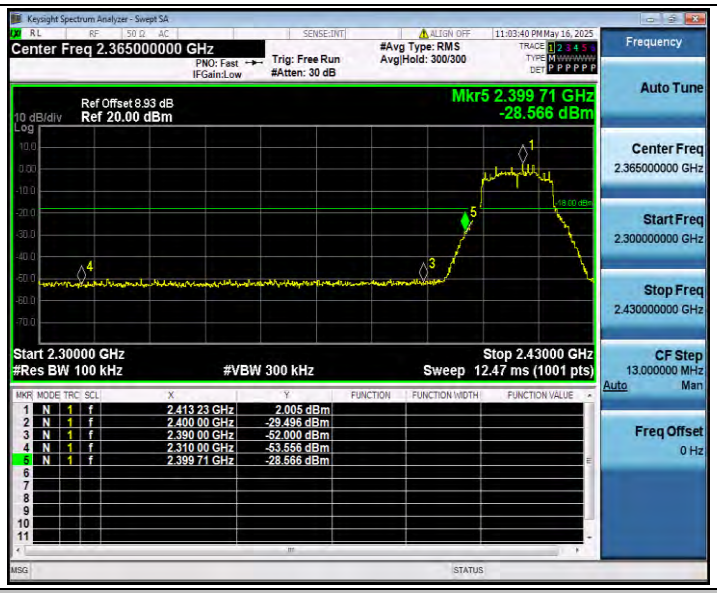
11B_Ant0_Low_2412



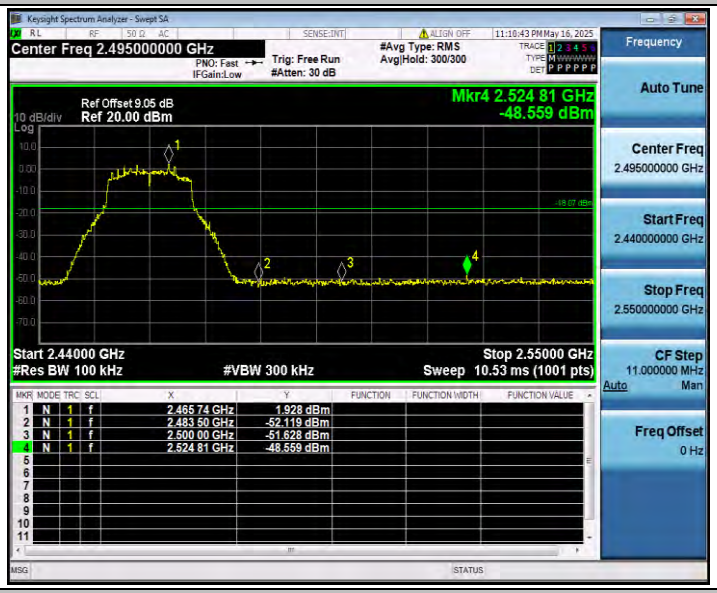

11B_Ant0_High_2462



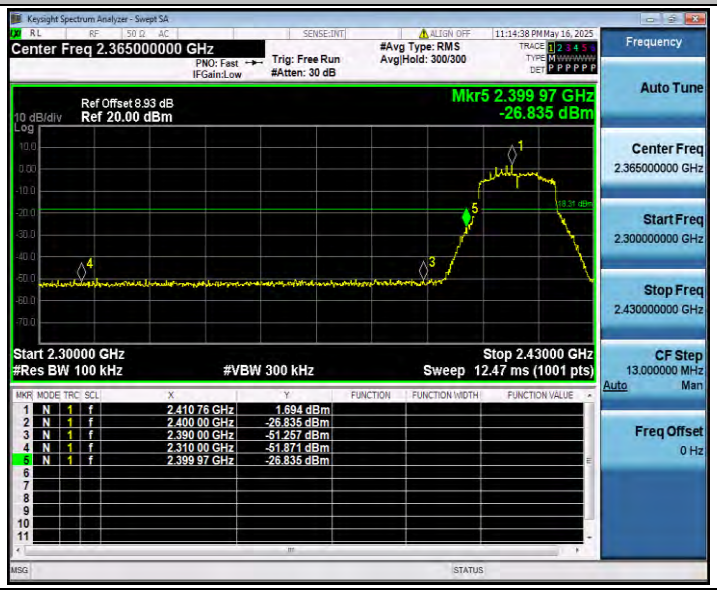

11G_Ant0_Low_2412



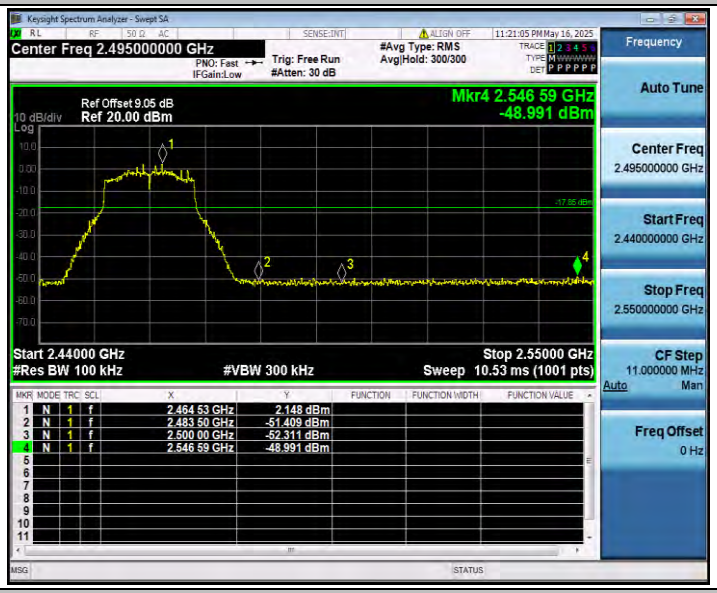

11G_Ant0_High_2462



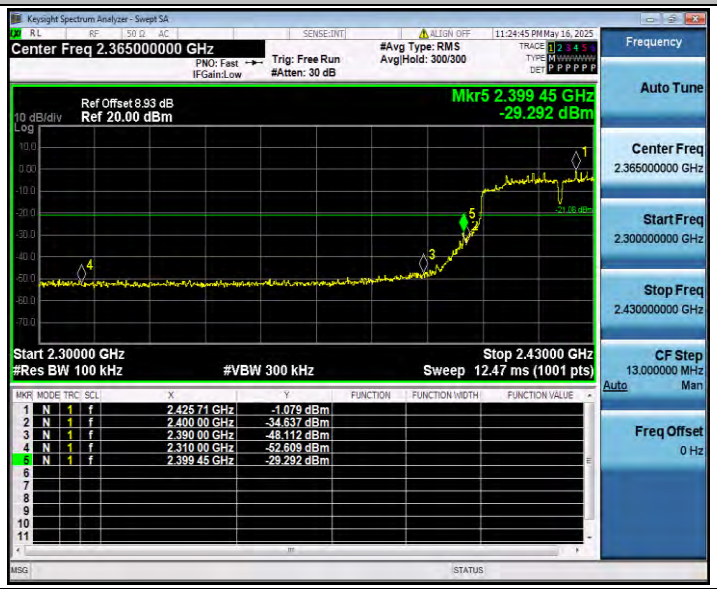

11N20SISO_Ant0_Low_2412



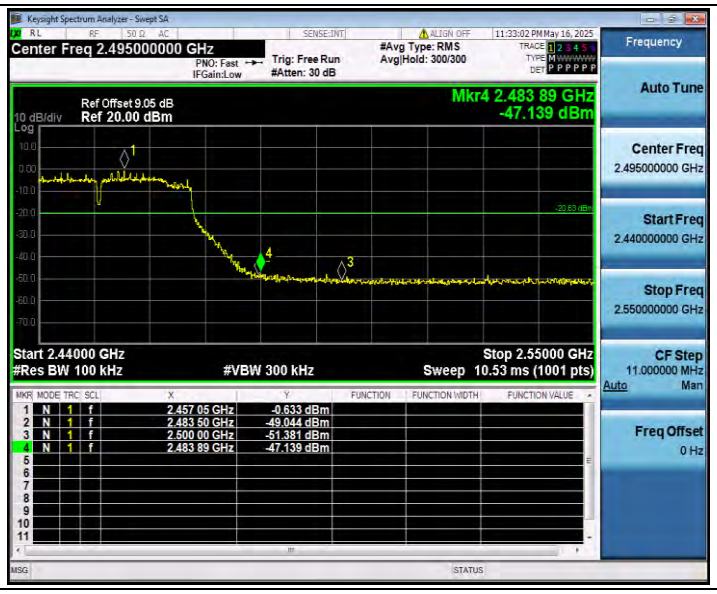
11N20SISO_Ant0_High_2462




11N40SISO_Ant0_Low_2422




11N40SISO_Ant0_High_2452


Keysight Spectrum Analyzer - Swept SA
Center Freq 2.495000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 300/300
11:33:02 PM May 16, 2025
Ref Offset 9.05 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr4 2.483 89 GHz
-47.139 dBm
Start 2.44000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.55000 GHz
Sweep 10.53 ms (1001 pts)
1 N 1 f 2.457 05 GHz -0.633 dBm
2 N 1 f 2.483 50 GHz -49.044 dBm
3 N 1 f 2.500 00 GHz -51.381 dBm
4 N 1 f 2.483 89 GHz -47.139 dBm
Frequency
Auto Tune
Center Freq
2.495000000 GHz
Start Freq
2.440000000 GHz
Stop Freq
2.550000000 GHz
CF Step
11.000000 MHz
Auto
Man
Freq Offset
0 Hz

# Appendix C.6: Conducted Spurious Emission

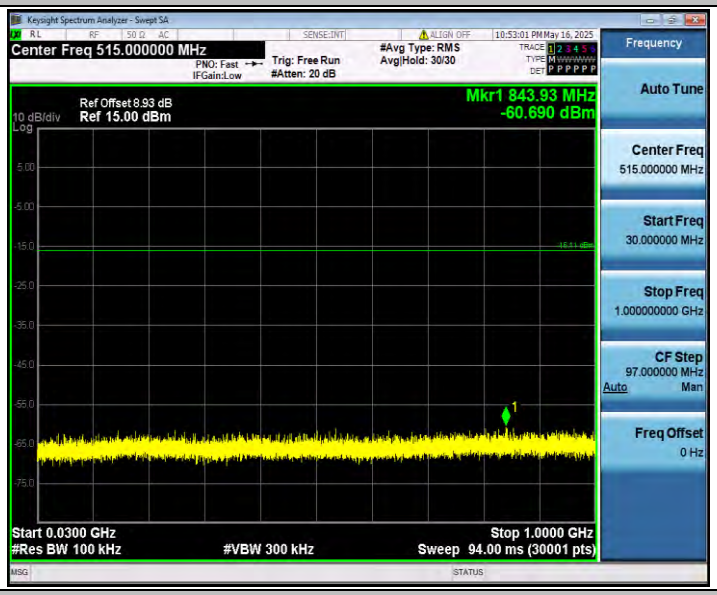
## Test Result

| TestMode | Antenna | Frequency[MHz] | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|---|---|---|---|---|---|---|---|
| 11B | Ant0 | 2412 | Reference | 3.89 | 3.89 | --- | PASS |
| | | | 30~1000 | 3.89 | -60.69 | ≤-16.11 | PASS |
| | | | 1000~26500 | 3.89 | -47.69 | ≤-16.11 | PASS |
| | | 2437 | Reference | 5.59 | 5.59 | --- | PASS |
| | | | 30~1000 | 5.59 | -60.7 | ≤-14.41 | PASS |
| | | | 1000~26500 | 5.59 | -47.87 | ≤-14.41 | PASS |
| | | 2462 | Reference | 5.44 | 5.44 | --- | PASS |
| | | | 30~1000 | 5.44 | -60.72 | ≤-14.56 | PASS |
| | | | 1000~26500 | 5.44 | -47.38 | ≤-14.56 | PASS |
| 11G | Ant0 | 2412 | Reference | -2.15 | -2.15 | --- | PASS |
| | | | 30~1000 | -2.15 | -60.34 | ≤-22.15 | PASS |
| | | | 1000~26500 | -2.15 | -47.66 | ≤-22.15 | PASS |
| | | 2437 | Reference | -0.96 | -0.96 | --- | PASS |
| | | | 30~1000 | -0.96 | -60.63 | ≤-20.96 | PASS |
| | | | 1000~26500 | -0.96 | -48.03 | ≤-20.96 | PASS |
| | | 2462 | Reference | 0.11 | 0.11 | --- | PASS |
| | | | 30~1000 | 0.11 | -60.32 | ≤-19.89 | PASS |
| | | | 1000~26500 | 0.11 | -47.92 | ≤-19.89 | PASS |
| 11N20SISO | Ant0 | 2412 | Reference | -2.35 | -2.35 | --- | PASS |
| | | | 30~1000 | -2.35 | -60.94 | ≤-22.35 | PASS |
| | | | 1000~26500 | -2.35 | -47.93 | ≤-22.35 | PASS |
| | | 2437 | Reference | -2.33 | -2.33 | --- | PASS |
| | | | 30~1000 | -2.33 | -60.58 | ≤-22.33 | PASS |
| | | | 1000~26500 | -2.33 | -47.18 | ≤-22.33 | PASS |
| | | 2462 | Reference | -1.52 | -1.52 | --- | PASS |
| | | | 30~1000 | -1.52 | -60.65 | ≤-21.52 | PASS |
| | | | 1000~26500 | -1.52 | -47.56 | ≤-21.52 | PASS |
| 11N40SISO | Ant0 | 2422 | Reference | -4.17 | -4.17 | --- | PASS |
| | | | 30~1000 | -4.17 | -60.6 | ≤-24.17 | PASS |
| | | | 1000~26500 | -4.17 | -47.73 | ≤-24.17 | PASS |
| | | 2437 | Reference | -2.94 | -2.94 | --- | PASS |
| | | | 30~1000 | -2.94 | -60.51 | ≤-22.94 | PASS |
| | | | 1000~26500 | -2.94 | -47.82 | ≤-22.94 | PASS |
| | | 2452 | Reference | -4.35 | -4.35 | --- | PASS |
| | | | 30~1000 | -4.35 | -60.23 | ≤-24.35 | PASS |
| | | | 1000~26500 | -4.35 | -47.53 | ≤-24.35 | PASS |

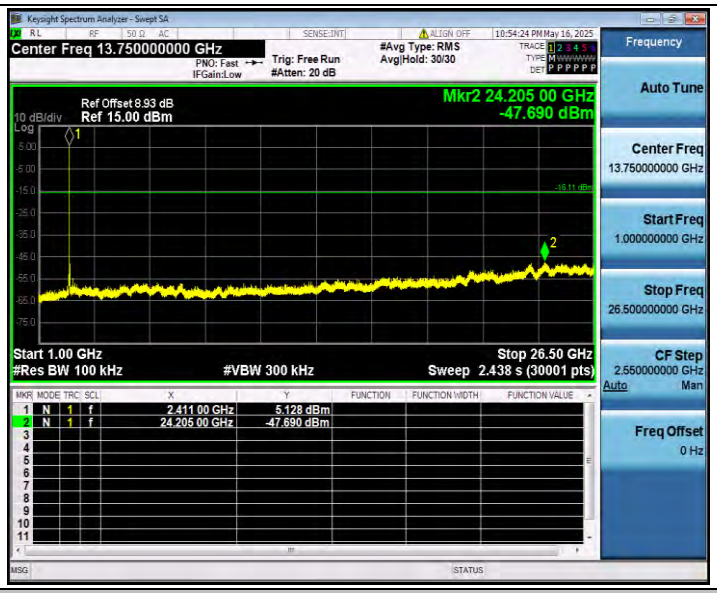
## Test Graphs

11B_Ant0_2412_0~Reference

11B_Ant0_2412_30~1000



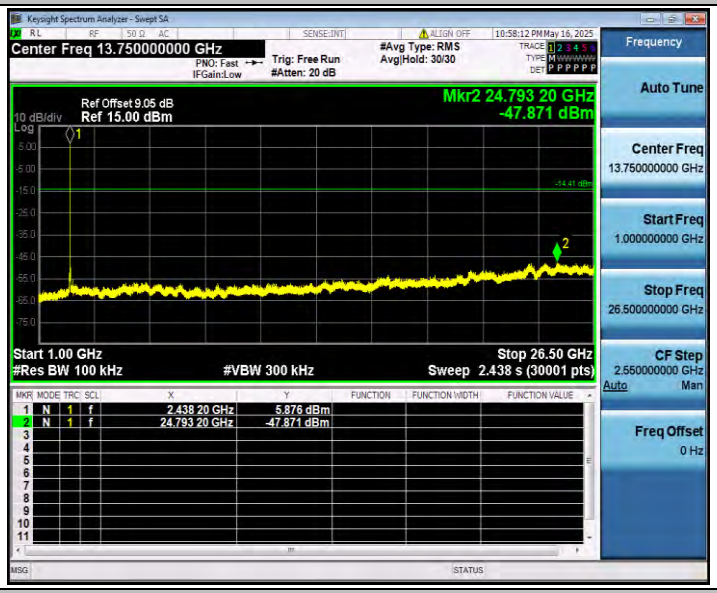

11B_Ant0_2412_1000~26500




11B_Ant0_2437_0~Reference

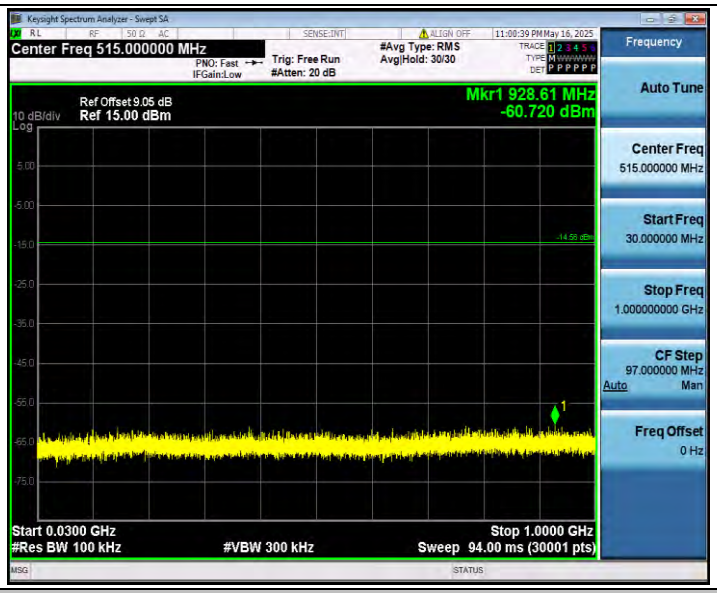
11B_Ant0_2437_30~1000

11B_Ant0_2437_1000~26500

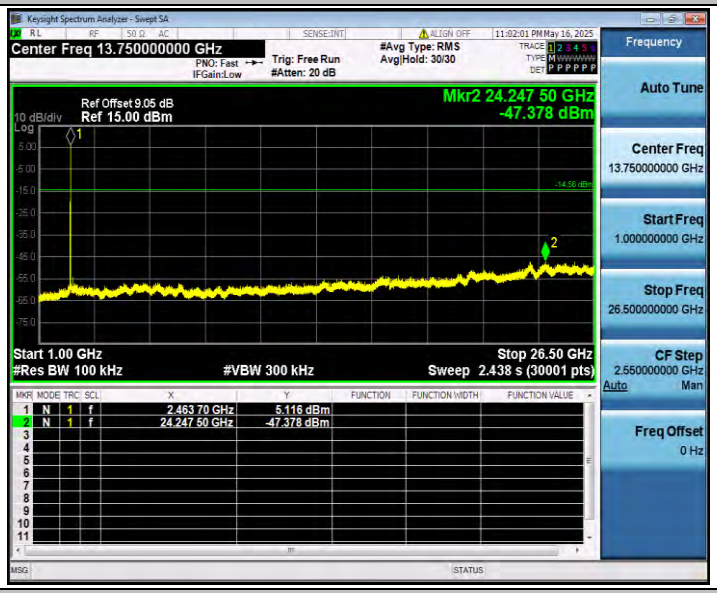



11B_Ant0_2462_0~Reference

11B_Ant0_2462_30~1000



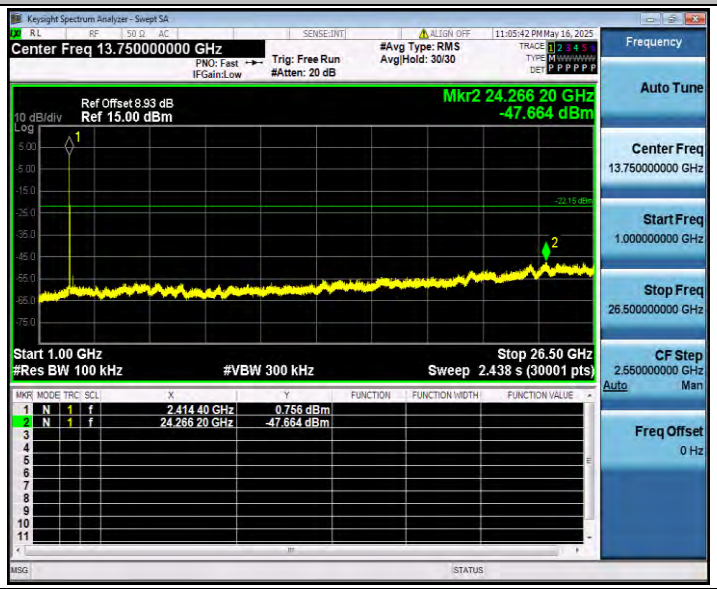

11B_Ant0_2462_1000~26500




11G_Ant0_2412_0~Reference

11G_Ant0_2412_30~1000

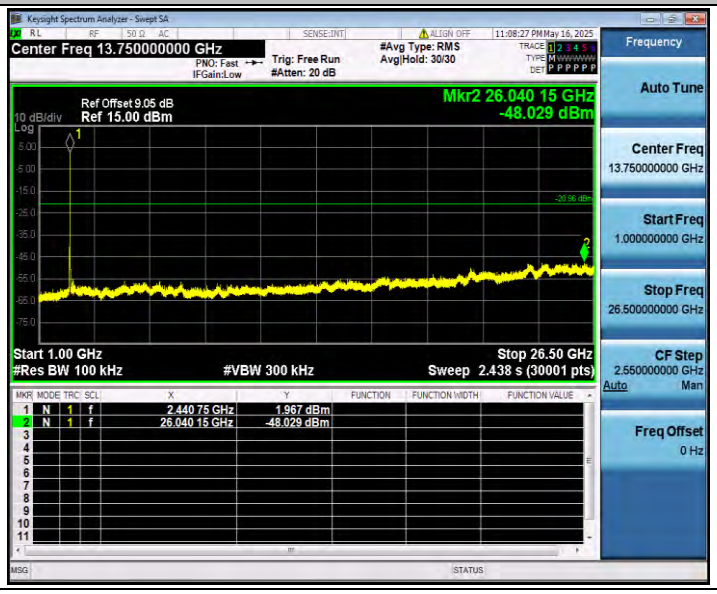
11G_Ant0_2412_1000~26500




11G_Ant0_2437_0~Reference

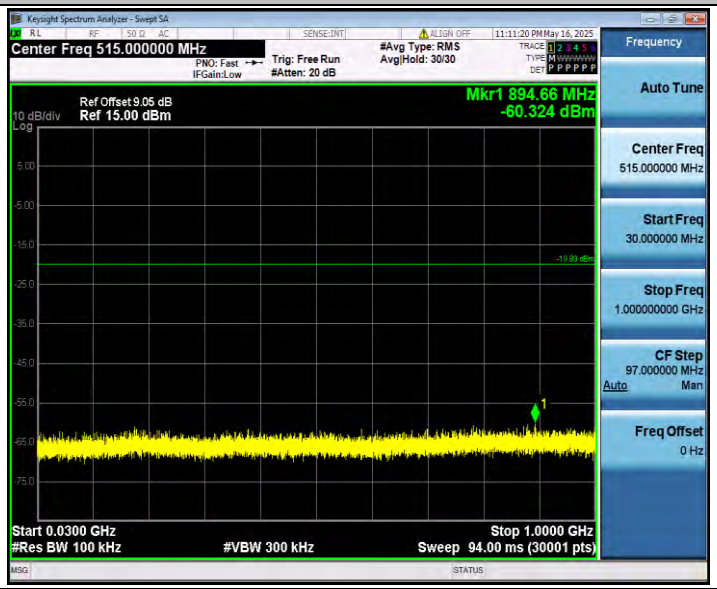
11G_Ant0_2437_30~1000

11G_Ant0_2437_1000~26500

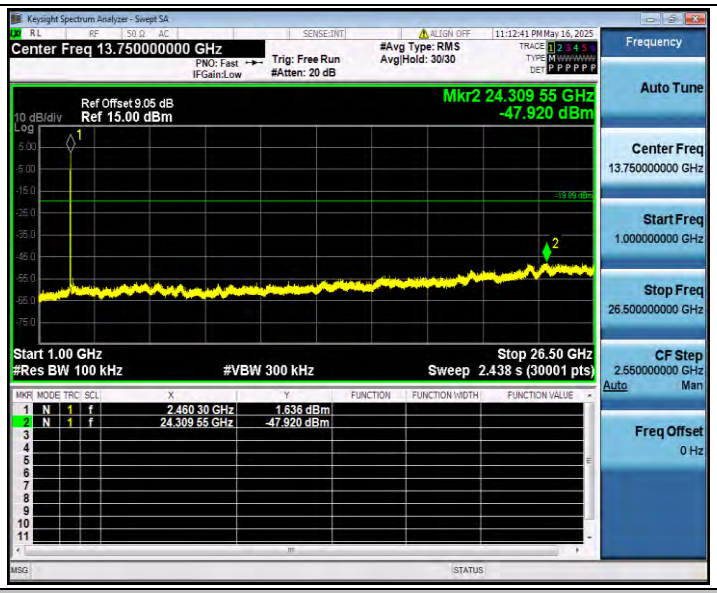


11G_Ant0_2462_0~Reference

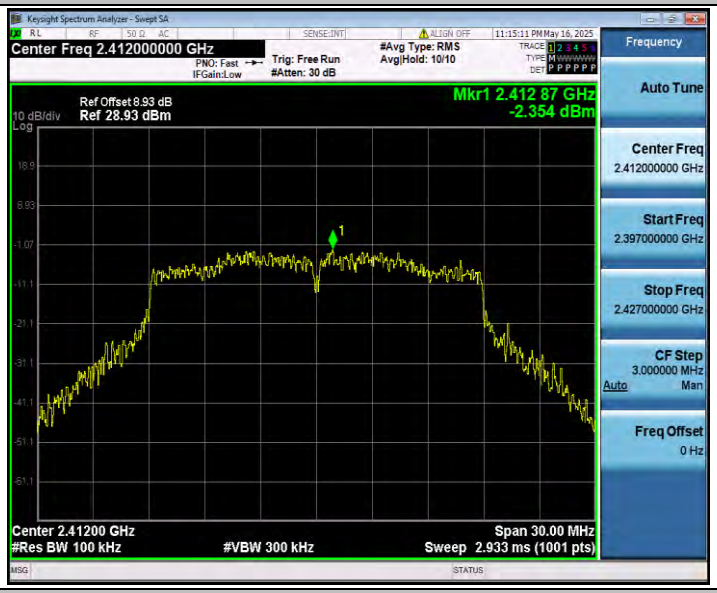
11G_Ant0_2462_30~1000



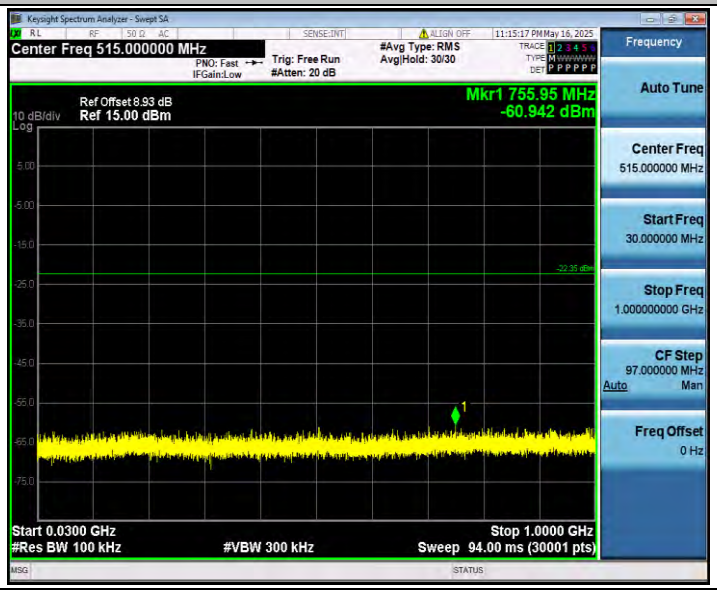

11G_Ant0_2462_1000~26500



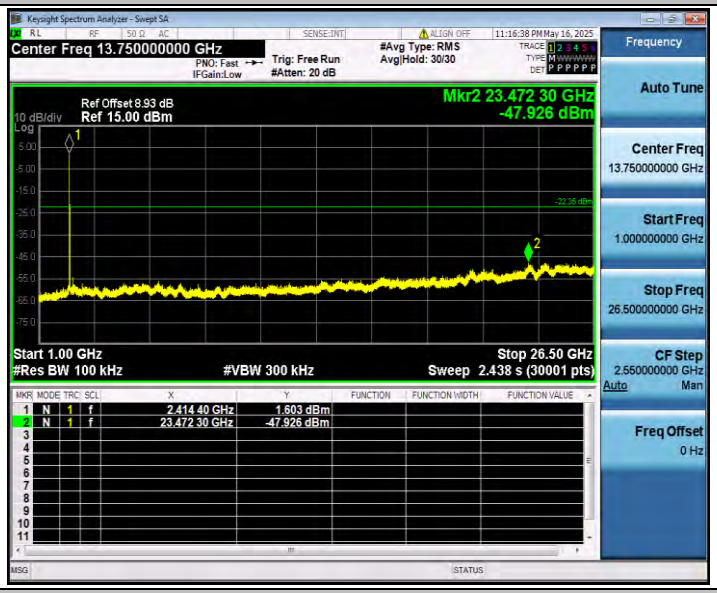

11N20SISO_Ant0_2412_0~Reference



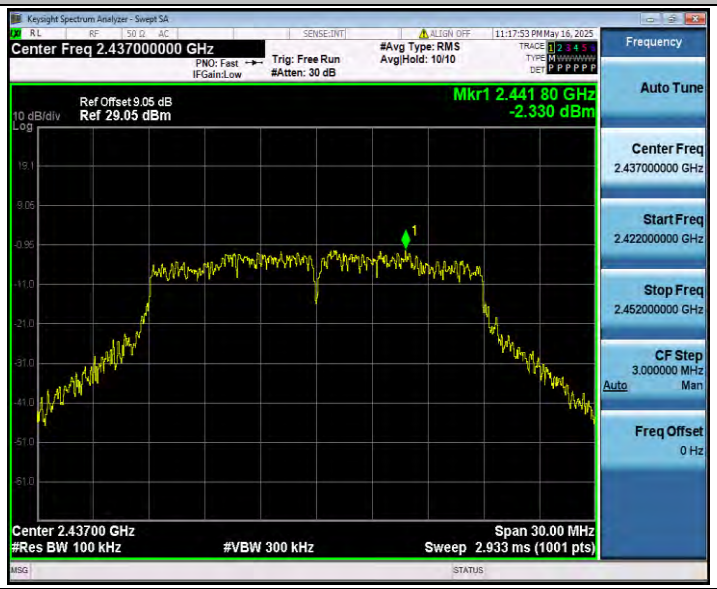

11N20SISO_Ant0_2412_30~1000



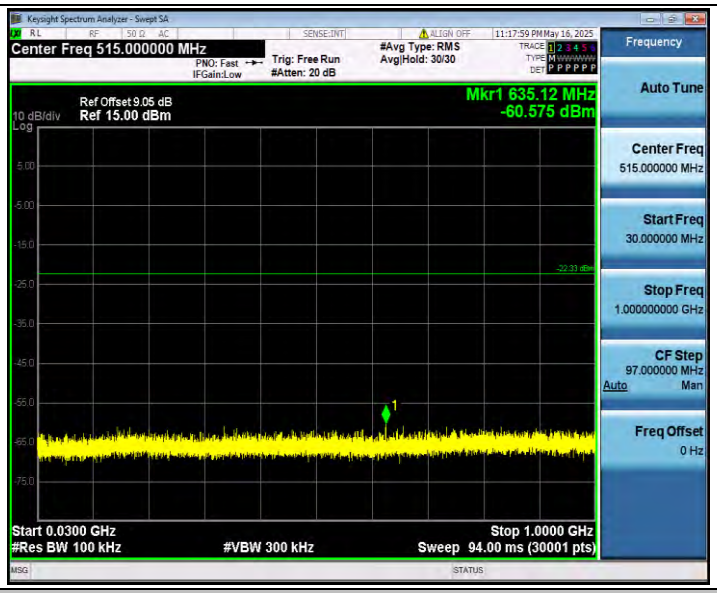
11N20SISO_Ant0_2412_1000~26500



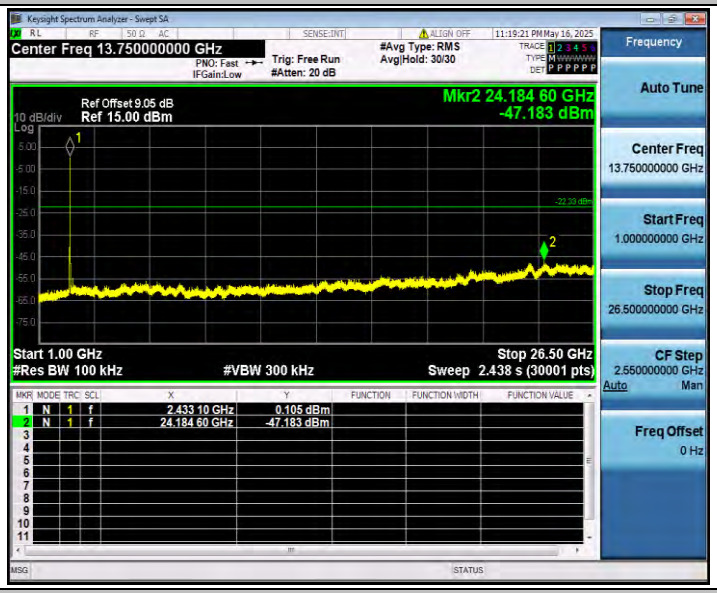

11N20SISO_Ant0_2437_0~Reference




11N20SISO_Ant0_2437_30~1000



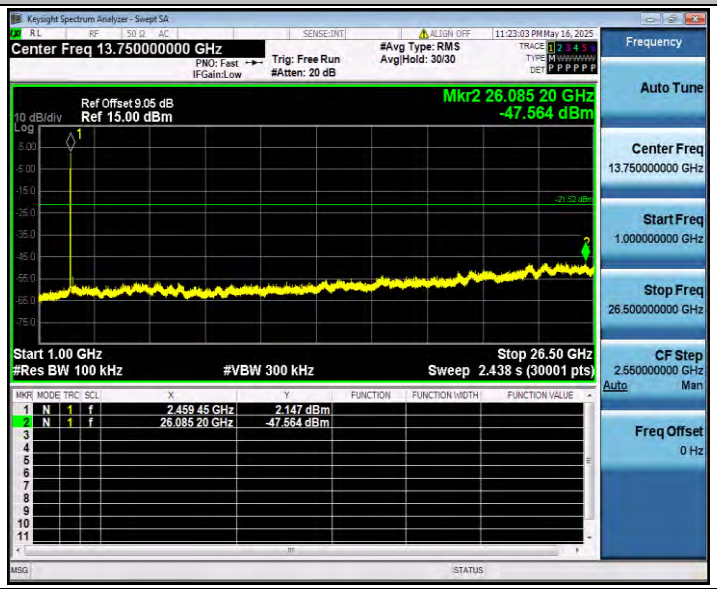

11N20SISO_Ant0_2437_1000~26500




11N20SISO_Ant0_2462_0~Reference

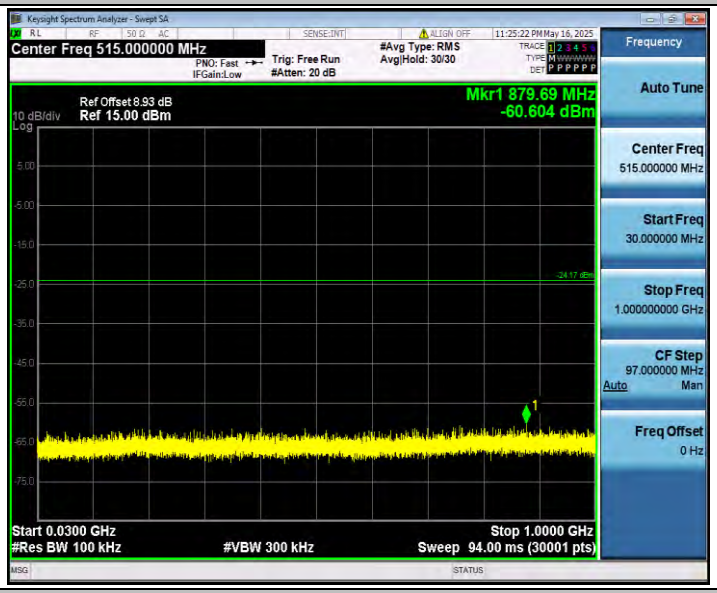
11N20SISO_Ant0_2462_30~1000

11N20SISO_Ant0_2462_1000~26500

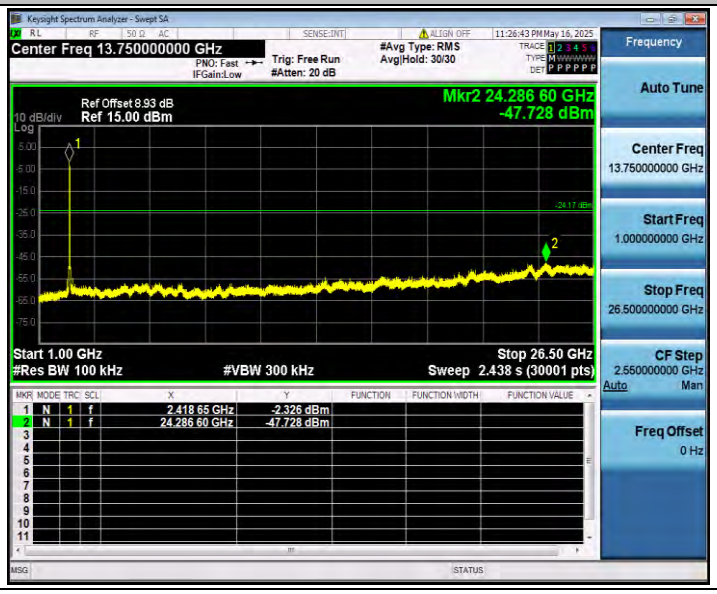



11N40SISO_Ant0_2422_0~Reference

11N40SISO_Ant0_2422_30~1000

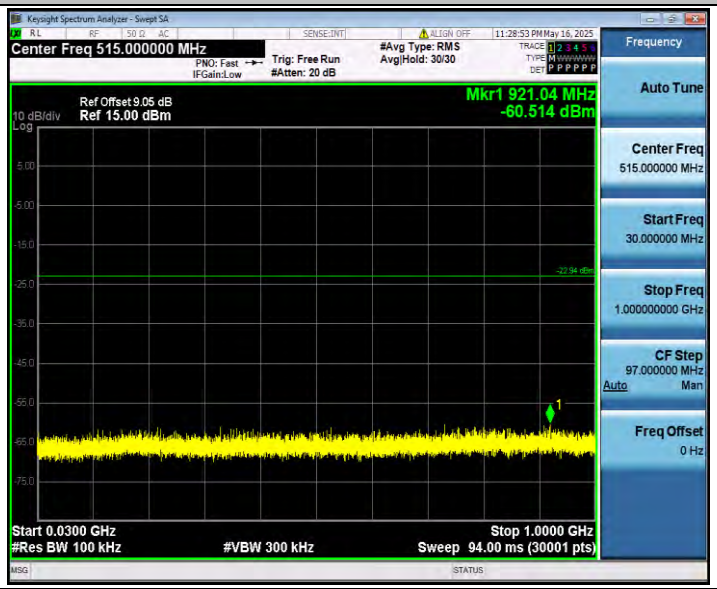



11N40SISO_Ant0_2422_1000~26500

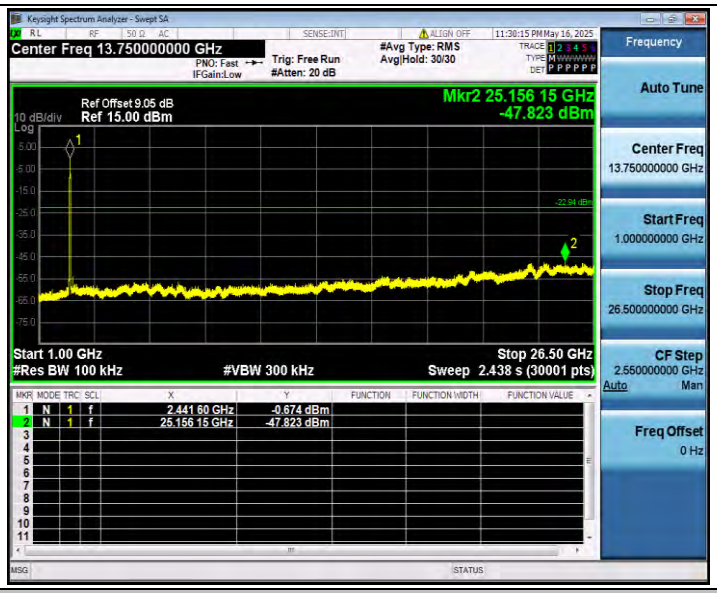


11N40SISO_Ant0_2437_0~Reference

11N40SISO_Ant0_2437_30~1000

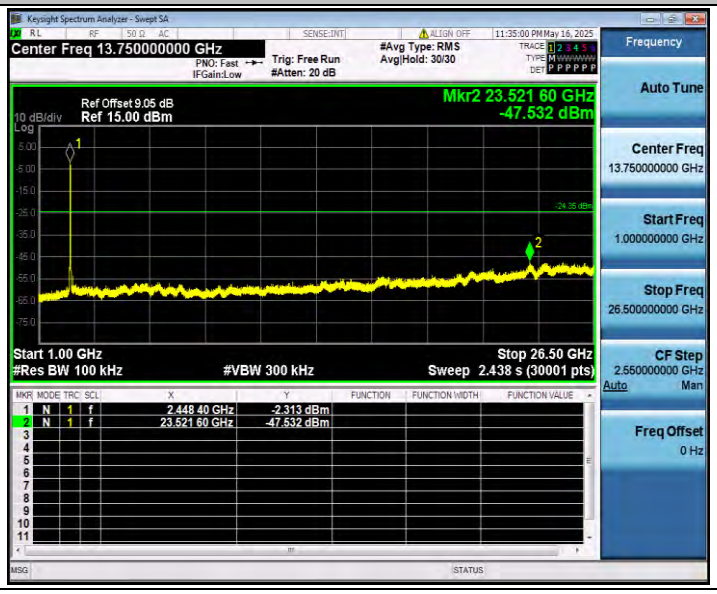



11N40SISO_Ant0_2437_1000~26500




11N40SISO_Ant0_2452_0~Reference

11N40SISO_Ant0_2452_30~1000

| 11N40SISO_Ant0_2452_1000~26500 |
| --- |
|  |