



Appendix A for SHEM190501321501

1.6dB Bandwidth

| Test Mode | Test Channel | Ant | EBW[MHz] | Limit | Verdict |
|-----------|--------------|------|----------|-------|---------|
| 11B | 2412 | Ant1 | 9.56 | 0.5 | PASS |
| 11B | 2437 | Ant1 | 10.05 | 0.5 | PASS |
| 11B | 2462 | Ant1 | 9.11 | 0.5 | PASS |
| 11G | 2412 | Ant1 | 16.35 | 0.5 | PASS |
| 11G | 2437 | Ant1 | 16.37 | 0.5 | PASS |
| 11G | 2462 | Ant1 | 16.34 | 0.5 | PASS |
| 11N20SISO | 2412 | Ant1 | 17.58 | 0.5 | PASS |
| 11N20SISO | 2437 | Ant1 | 17.57 | 0.5 | PASS |
| 11N20SISO | 2462 | Ant1 | 17.58 | 0.5 | PASS |
| 11N40SISO | 2422 | Ant1 | 35.52 | 0.5 | PASS |
| 11N40SISO | 2437 | Ant1 | 35.46 | 0.5 | PASS |
| 11N40SISO | 2452 | Ant1 | 35.62 | 0.5 | PASS |

6dB Bandwidth_11B_2412_Ant1



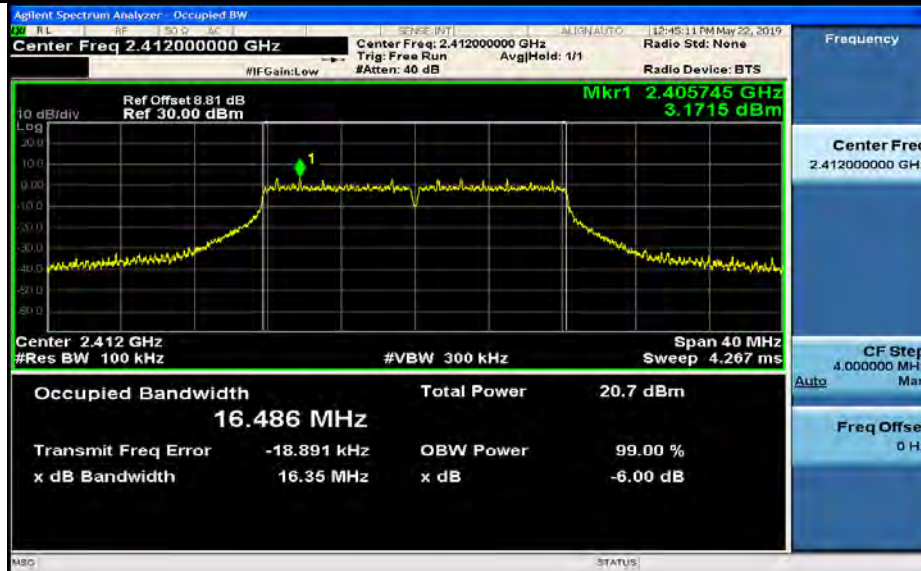
6dB Bandwidth_11B_2437_Ant1



6dB Bandwidth_11B_2462_Ant1



6dB Bandwidth_11G_2412_Ant1



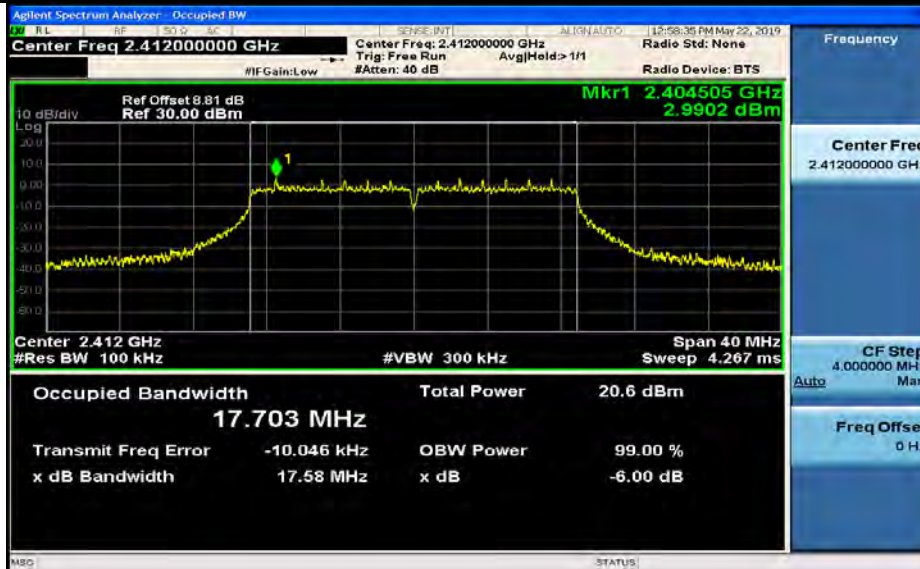
6dB Bandwidth_11G_2437_Ant1



6dB Bandwidth_11G_2462_Ant1



6dB Bandwidth_11N20SISO_2412_Ant1



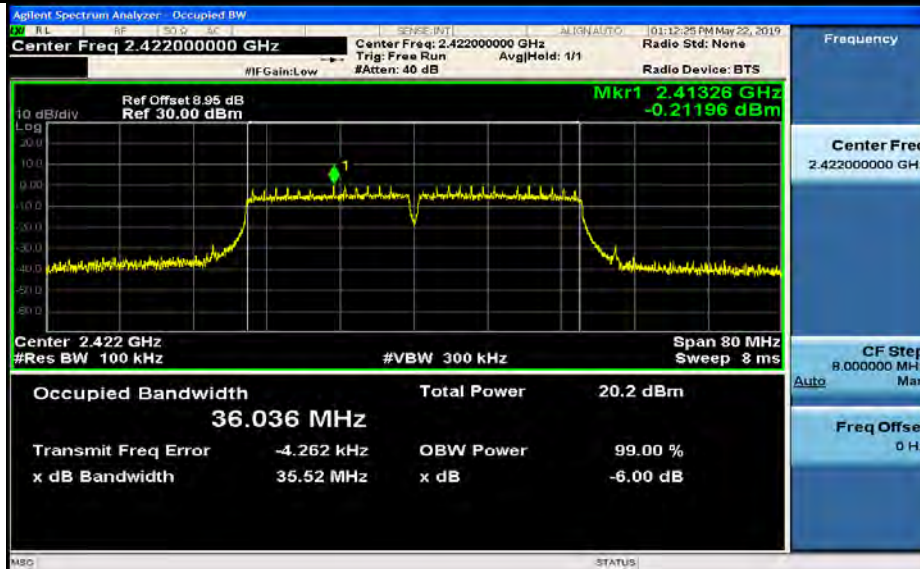
6dB Bandwidth_11N20SISO_2437_Ant1



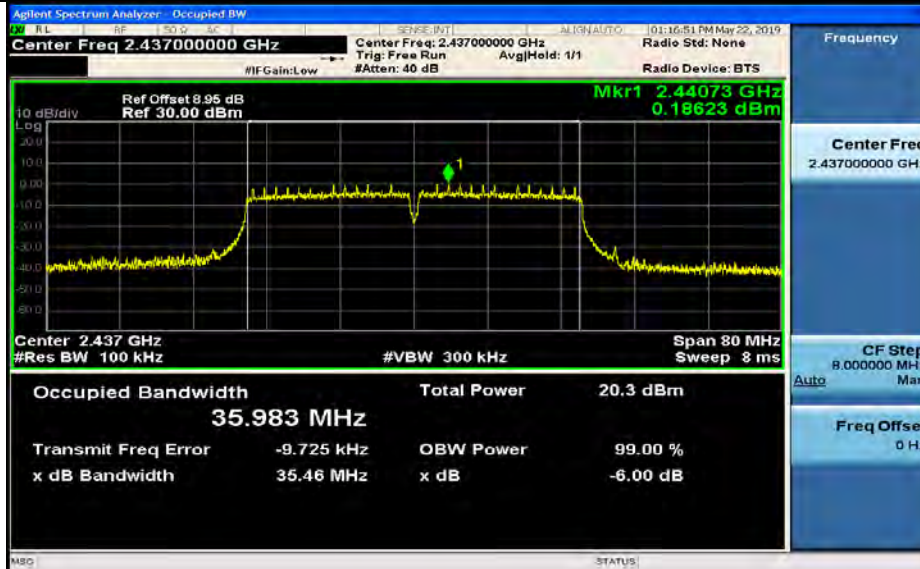
6dB Bandwidth_11N20SISO_2462_Ant1



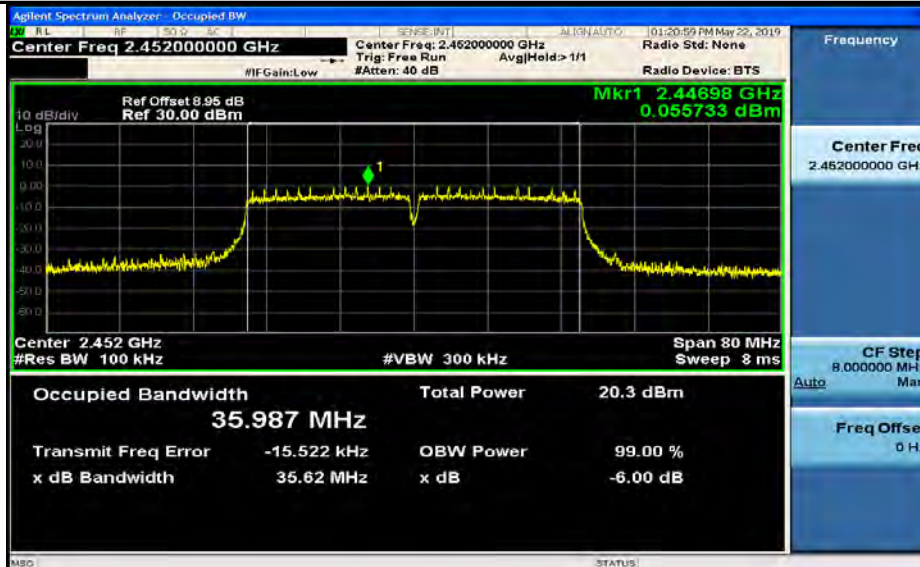
6dB Bandwidth_11N40SISO_2422_Ant1



6dB Bandwidth_11N40SISO_2437_Ant1



6dB Bandwidth_11N40SISO_2452_Ant1



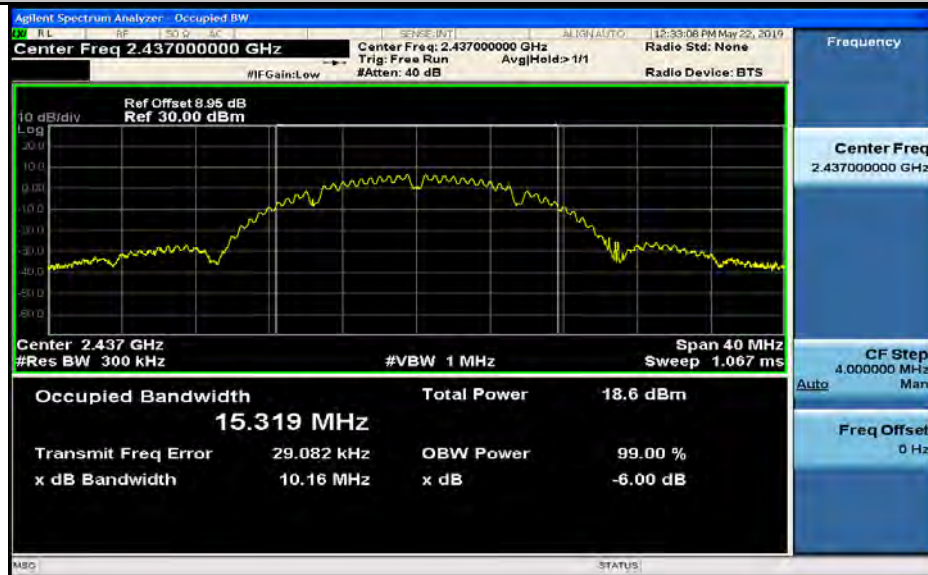
**2.Occupied Bandwidth**

| Test Mode | Test Channel | Ant | OBW[MHz] | Limit[MHz] | Verdict |
|-----------|--------------|------|----------|------------|---------|
| 11B | 2412 | Ant1 | 15.36 | --- | PASS |
| 11B | 2437 | Ant1 | 15.32 | --- | PASS |
| 11B | 2462 | Ant1 | 15.27 | --- | PASS |
| 11G | 2412 | Ant1 | 16.92 | --- | PASS |
| 11G | 2437 | Ant1 | 17.06 | --- | PASS |
| 11G | 2462 | Ant1 | 16.96 | --- | PASS |
| 11N20SISO | 2412 | Ant1 | 18.15 | --- | PASS |
| 11N20SISO | 2437 | Ant1 | 18.09 | --- | PASS |
| 11N20SISO | 2462 | Ant1 | 17.98 | --- | PASS |
| 11N40SISO | 2422 | Ant1 | 36.48 | --- | PASS |
| 11N40SISO | 2437 | Ant1 | 36.42 | --- | PASS |
| 11N40SISO | 2452 | Ant1 | 36.48 | --- | PASS |

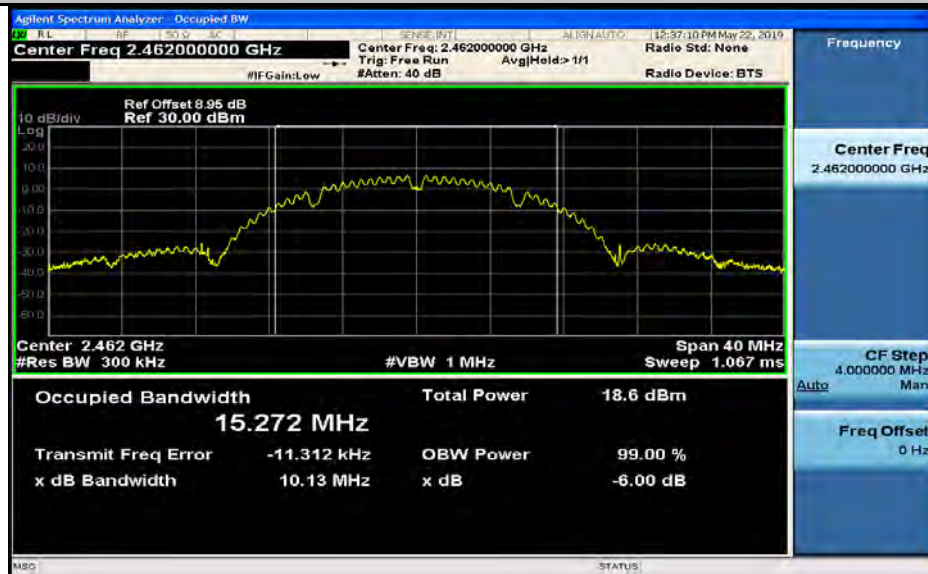
Occupied Bandwidth_11B_2412



Occupied Bandwidth_11B_2437



Occupied Bandwidth_11B_2462



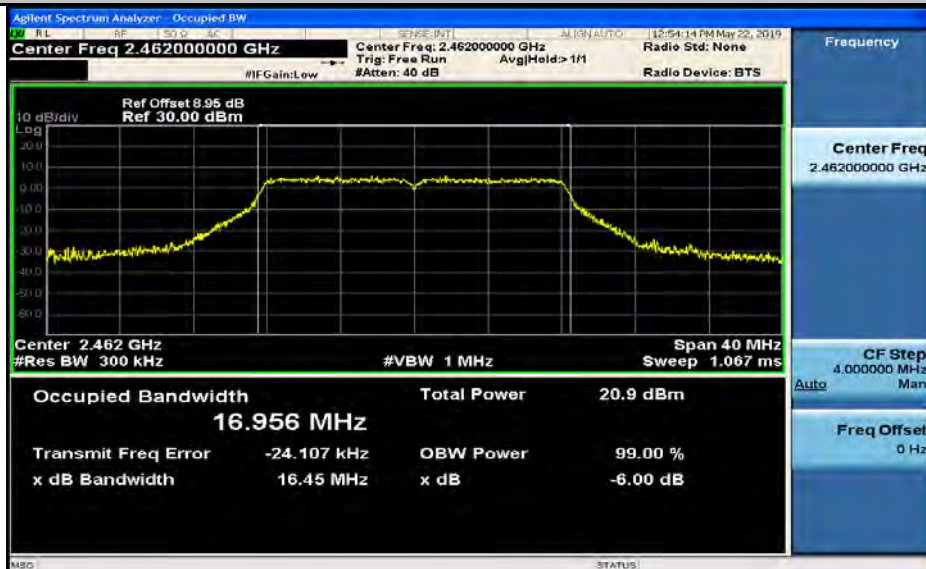
Occupied Bandwidth_11G_2412



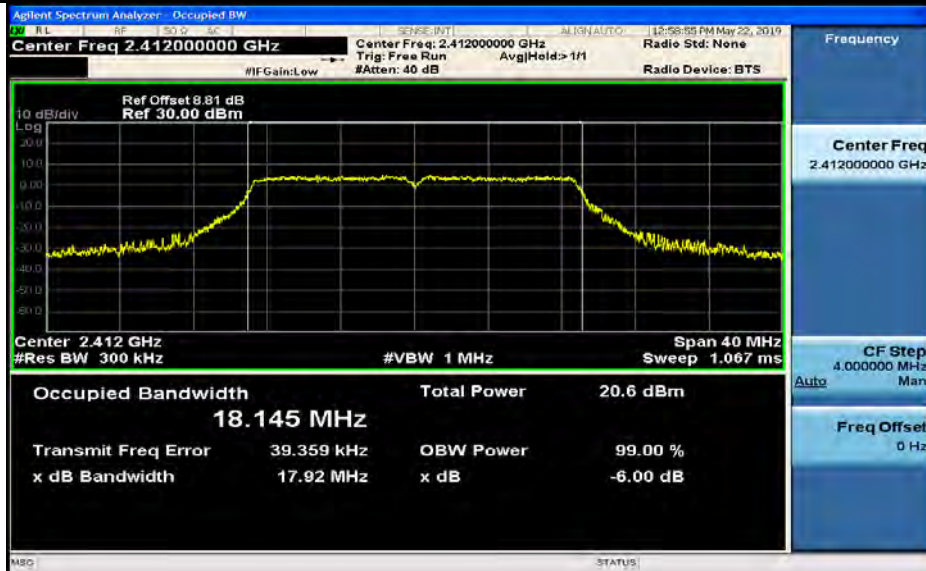
Occupied Bandwidth_11G_2437



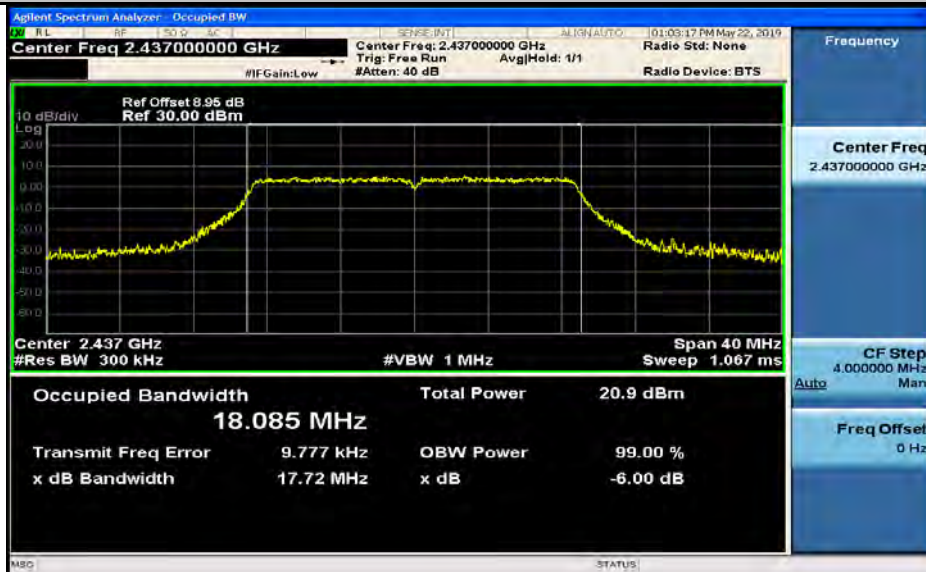
Occupied Bandwidth_11G_2462



Occupied Bandwidth_11N20SISO_2412



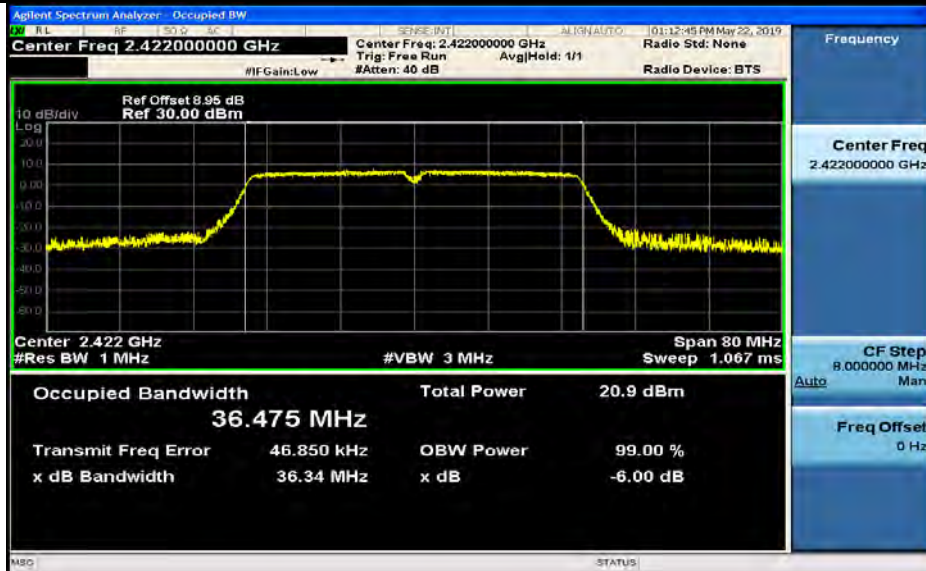
Occupied Bandwidth_11N20SISO_2437



Occupied Bandwidth_11N20SISO_2462



Occupied Bandwidth_11N40SISO_2422



Occupied Bandwidth_11N40SISO_2437



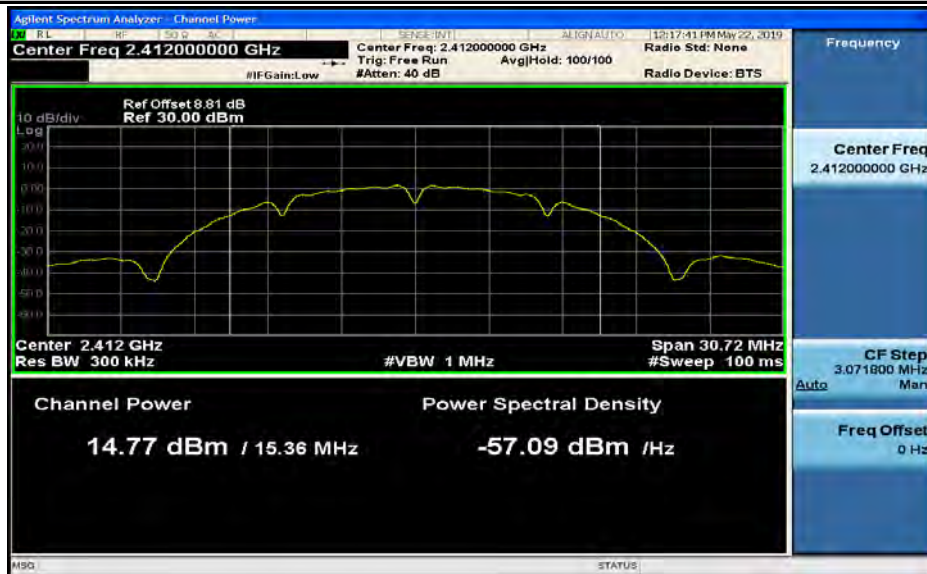
Occupied Bandwidth_11N40SISO_2452



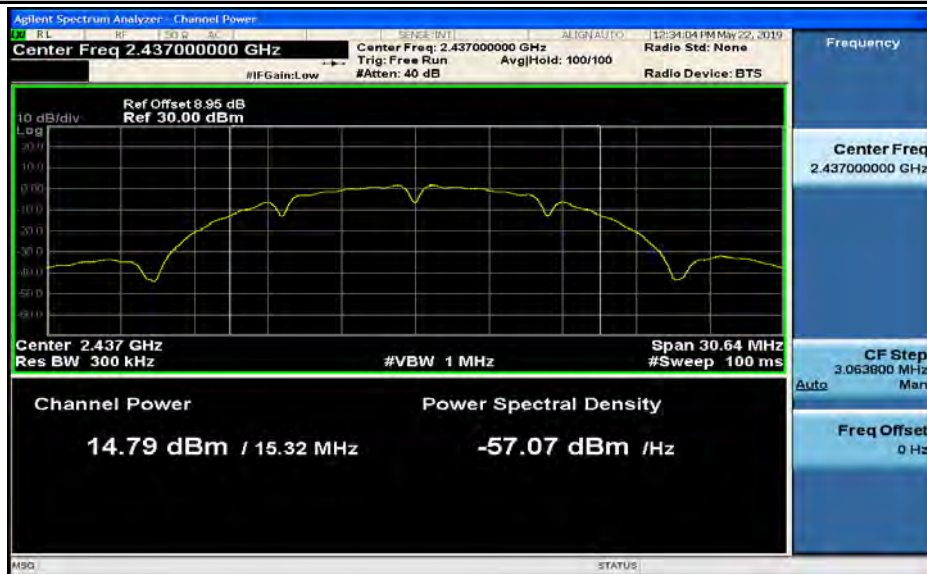
3.Maximum conducted (average) output power

| Test Mode | Test Channel | Ant | Level [dBm] | 10log(1/x) Factor[dB] | Power [dBm] | Limit [dBm] | Verdict |
|-----------|--------------|------|-------------|-----------------------|-------------|-------------|---------|
| 11B | 2412 | Ant1 | 14.77 | 0.00 | 14.77 | 30 | PASS |
| 11B | 2437 | Ant1 | 14.79 | 0.00 | 14.79 | 30 | PASS |
| 11B | 2462 | Ant1 | 14.65 | 0.00 | 14.65 | 30 | PASS |
| 11G | 2412 | Ant1 | 14.05 | 0.22 | 14.28 | 30 | PASS |
| 11G | 2437 | Ant1 | 14.29 | 0.11 | 14.41 | 30 | PASS |
| 11G | 2462 | Ant1 | 14.13 | 0.17 | 14.30 | 30 | PASS |
| 11N20SISO | 2412 | Ant1 | 13.78 | 0.18 | 13.96 | 30 | PASS |
| 11N20SISO | 2437 | Ant1 | 14.16 | 0.33 | 14.50 | 30 | PASS |
| 11N20SISO | 2462 | Ant1 | 14.04 | 0.18 | 14.22 | 30 | PASS |
| 11N40SISO | 2422 | Ant1 | 13.08 | 0.44 | 13.52 | 30 | PASS |
| 11N40SISO | 2437 | Ant1 | 13.2 | 0.66 | 13.85 | 30 | PASS |
| 11N40SISO | 2452 | Ant1 | 13.25 | 0.21 | 13.46 | 30 | PASS |

Maximum conducted (average) output power_11B_2412_Ant1



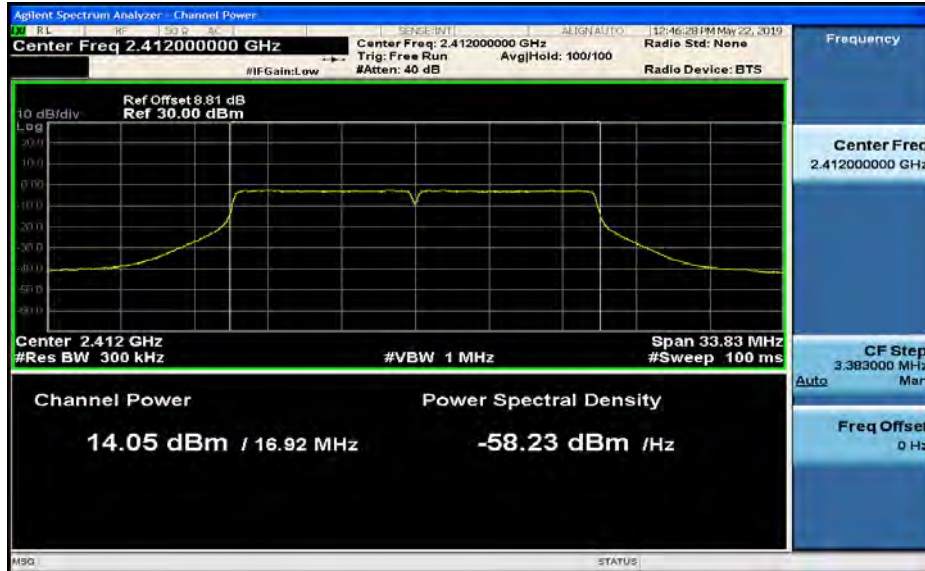
Maximum conducted (average) output power_11B_2437_Ant1



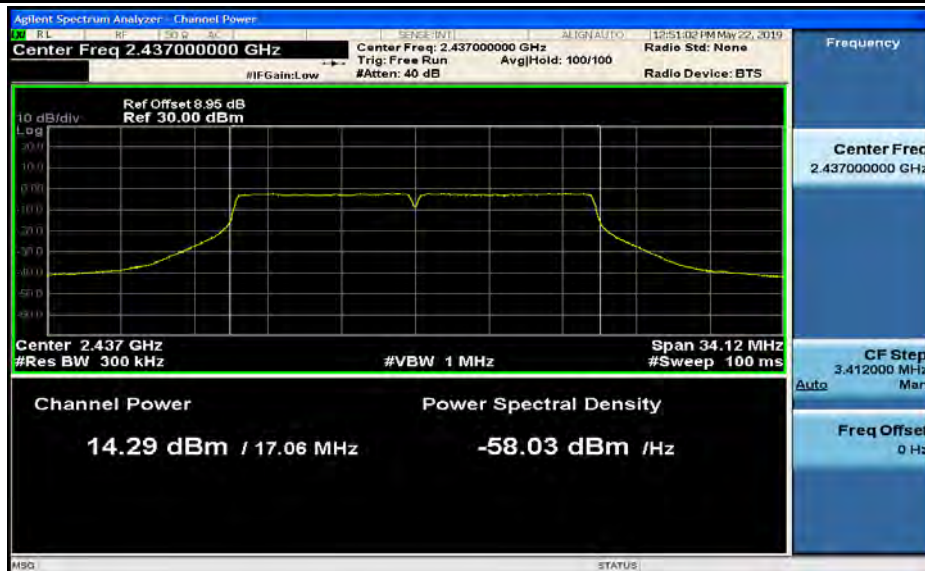
Maximum conducted (average) output power_11B_2462_Ant1



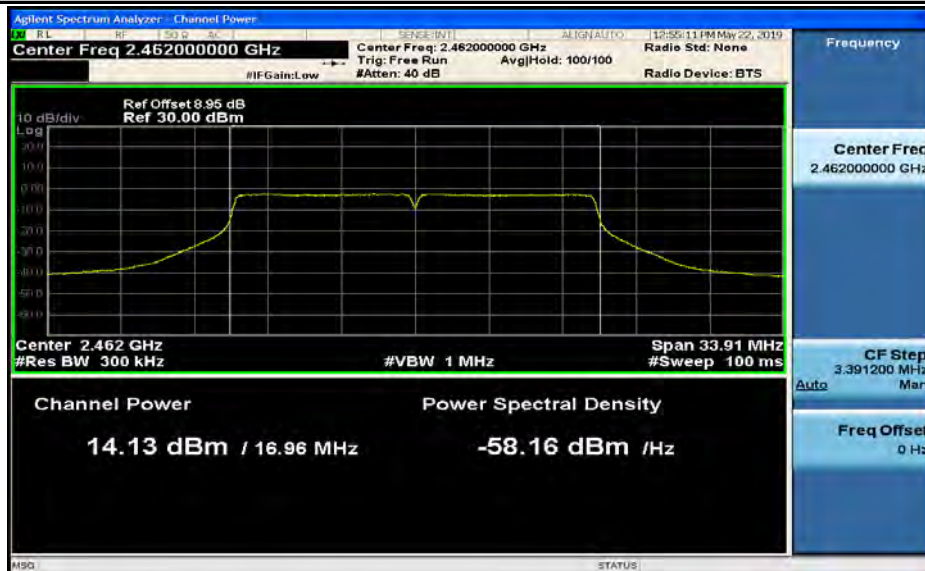
Maximum conducted (average) output power_11G_2412_Ant1



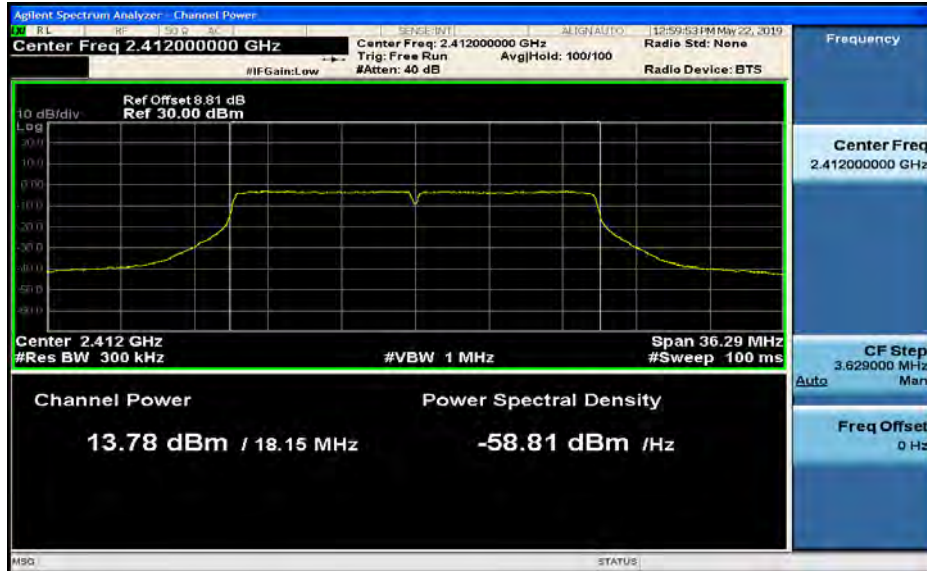
Maximum conducted (average) output power_11G_2437_Ant1



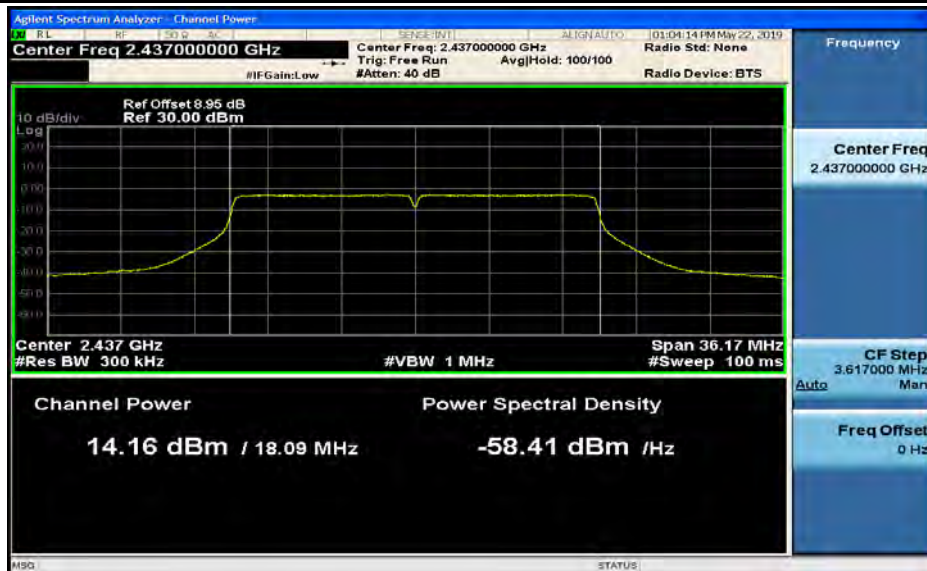
Maximum conducted (average) output power_11G_2462_Ant1



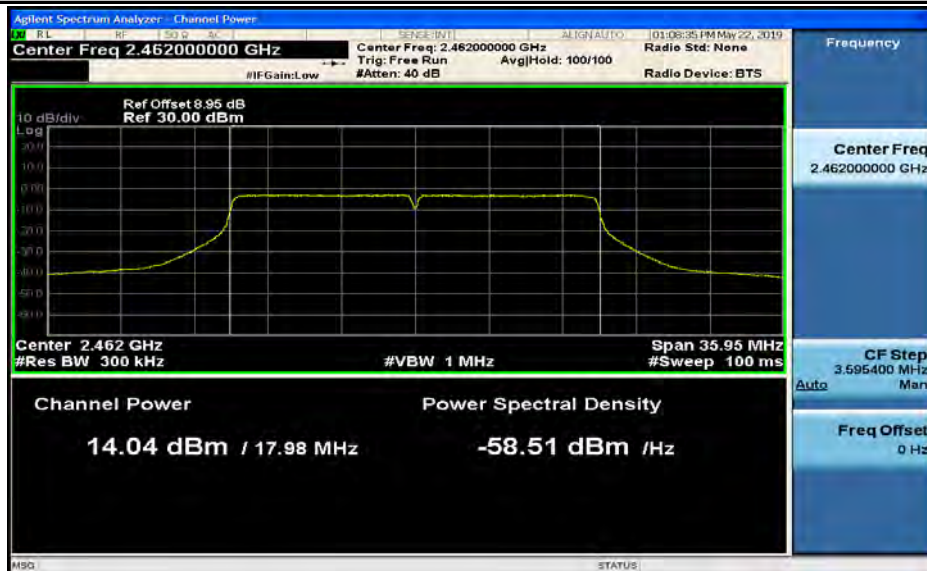
Maximum conducted (average) output power_11N20SISO_2412_Ant1



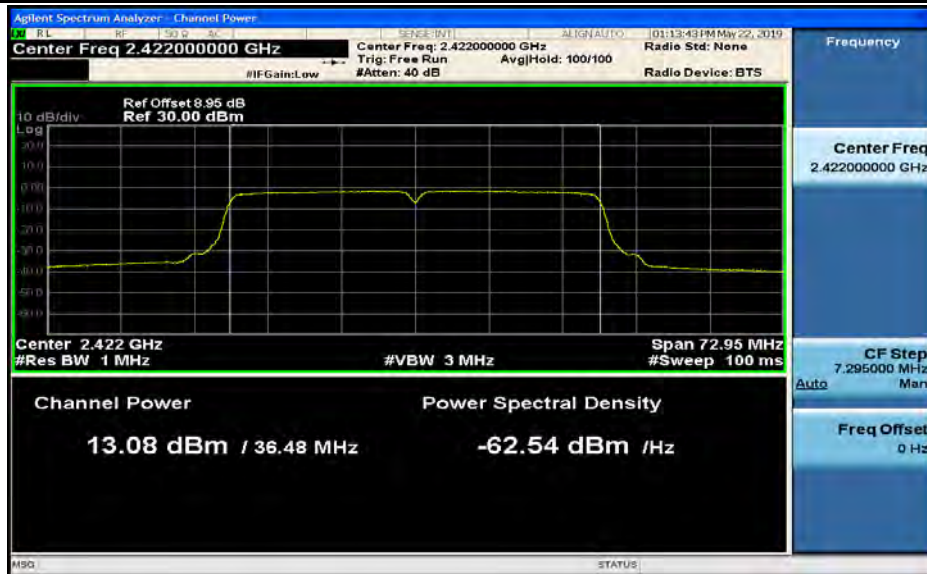
Maximum conducted (average) output power_11N20SISO_2437_Ant1



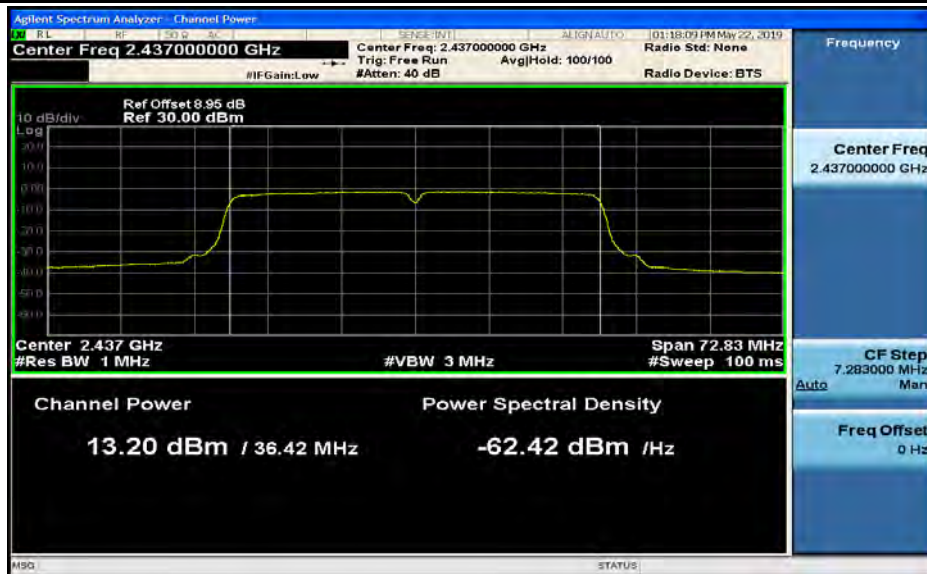
Maximum conducted (average) output power_11N20SISO_2462_Ant1



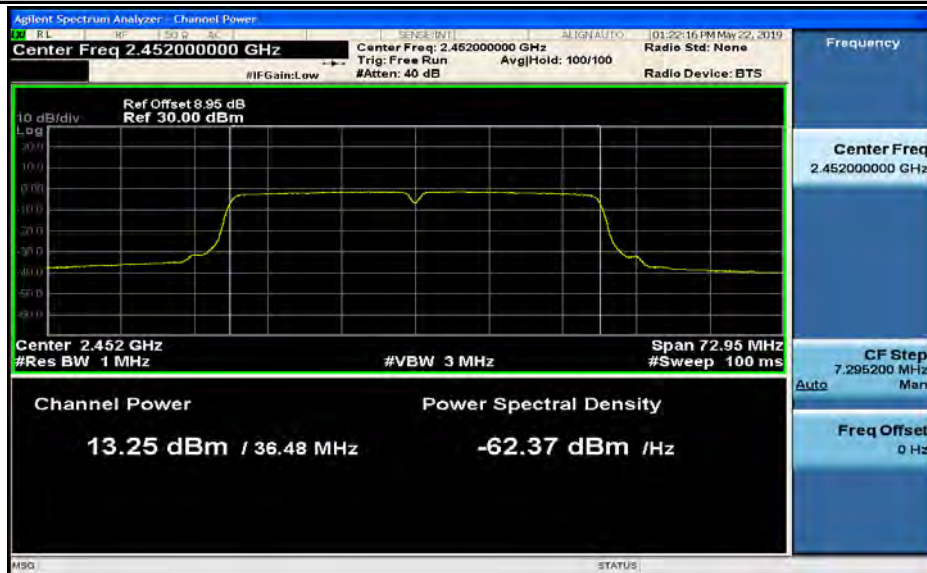
Maximum conducted (average) output power_11N40SISO_2422_Ant1



Maximum conducted (average) output power_11N40SISO_2437_Ant1



Maximum conducted (average) output power_11N40SISO_2452_Ant1



4.Maximum(average) power spectral density

| Test Mode | Test Channel | Ant | Level [dBm/3kHz] | 10log(1/x) Factor[dB] | PSD[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|--------------|------|------------------|-----------------------|---------------|-----------------|---------|
| 11B | 2412 | Ant1 | -17.47 | 0.00 | -17.47 | 8.00 | PASS |
| 11B | 2437 | Ant1 | -17.41 | 0.00 | -17.41 | 8.00 | PASS |
| 11B | 2462 | Ant1 | -17.29 | 0.00 | -17.29 | 8.00 | PASS |
| 11G | 2412 | Ant1 | -20.05 | 0.22 | -19.83 | 8.00 | PASS |
| 11G | 2437 | Ant1 | -19.71 | 0.11 | -19.60 | 8.00 | PASS |
| 11G | 2462 | Ant1 | -19.78 | 0.17 | -19.61 | 8.00 | PASS |
| 11N20SISO | 2412 | Ant1 | -20.35 | 0.18 | -20.17 | 8.00 | PASS |
| 11N20SISO | 2437 | Ant1 | -19.96 | 0.33 | -19.63 | 8.00 | PASS |
| 11N20SISO | 2462 | Ant1 | -20.09 | 0.18 | -19.91 | 8.00 | PASS |
| 11N40SISO | 2422 | Ant1 | -24.31 | 0.44 | -23.87 | 8.00 | PASS |
| 11N40SISO | 2437 | Ant1 | -23.75 | 0.66 | -23.09 | 8.00 | PASS |
| 11N40SISO | 2452 | Ant1 | -23.66 | 0.21 | -23.45 | 8.00 | PASS |

Maximum(average) power spectral density_11B_2412_Ant1



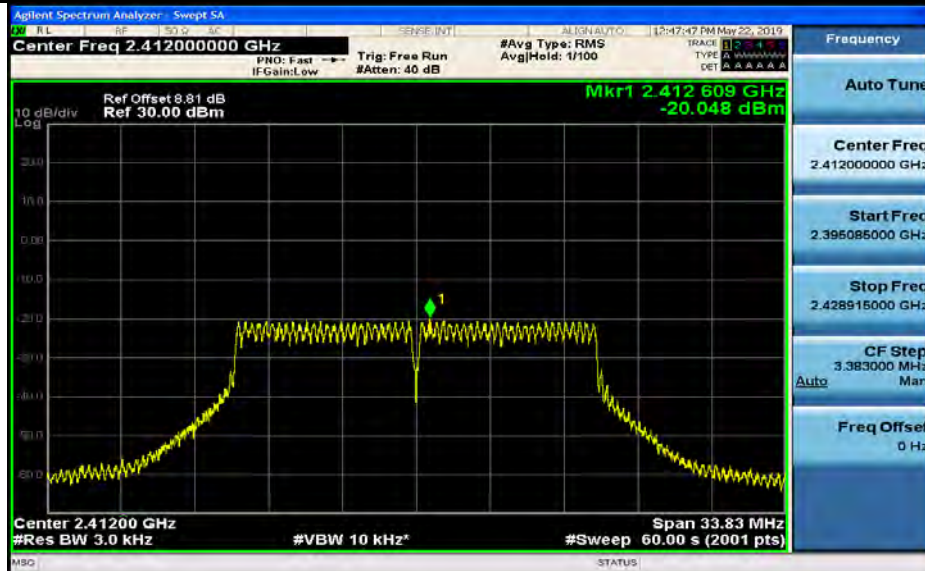
Maximum(average) power spectral density_11B_2437_Ant1



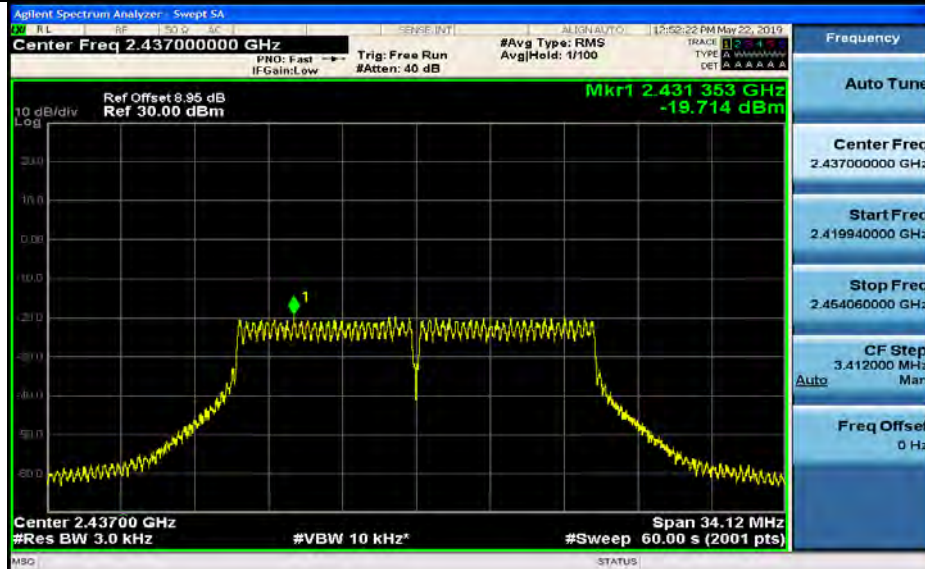
Maximum(average) power spectral density_11B_2462_Ant1



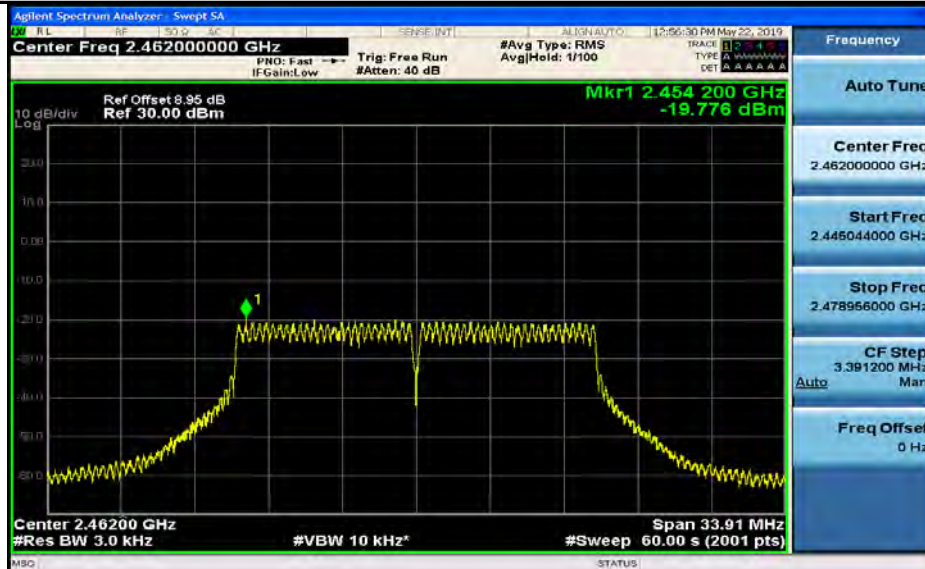
Maximum(average) power spectral density_11G_2412_Ant1



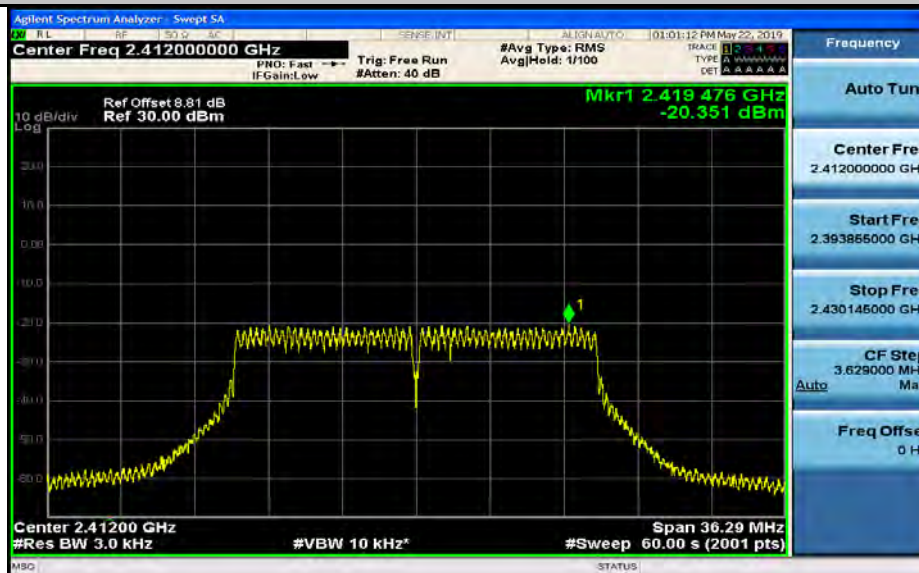
Maximum(average) power spectral density_11G_2437_Ant1



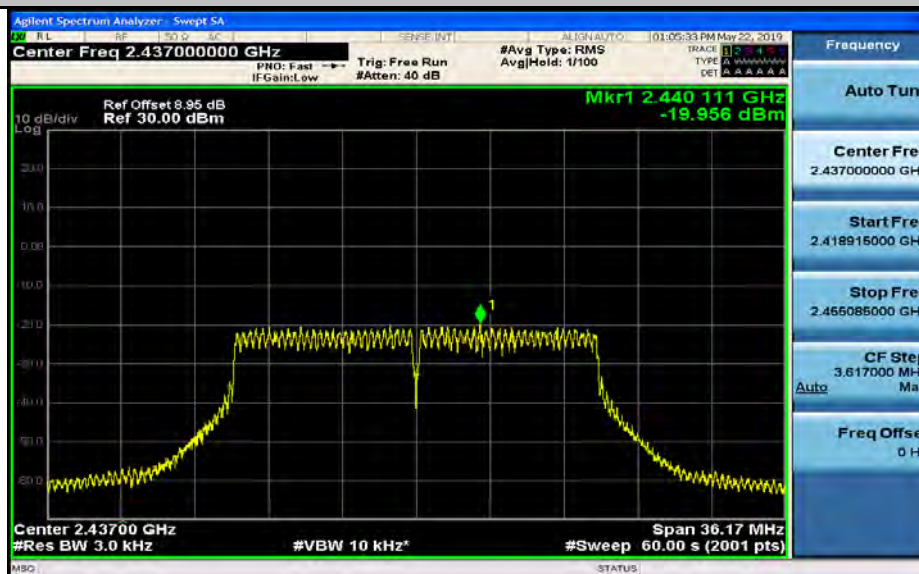
Maximum(average) power spectral density_11G_2462_Ant1



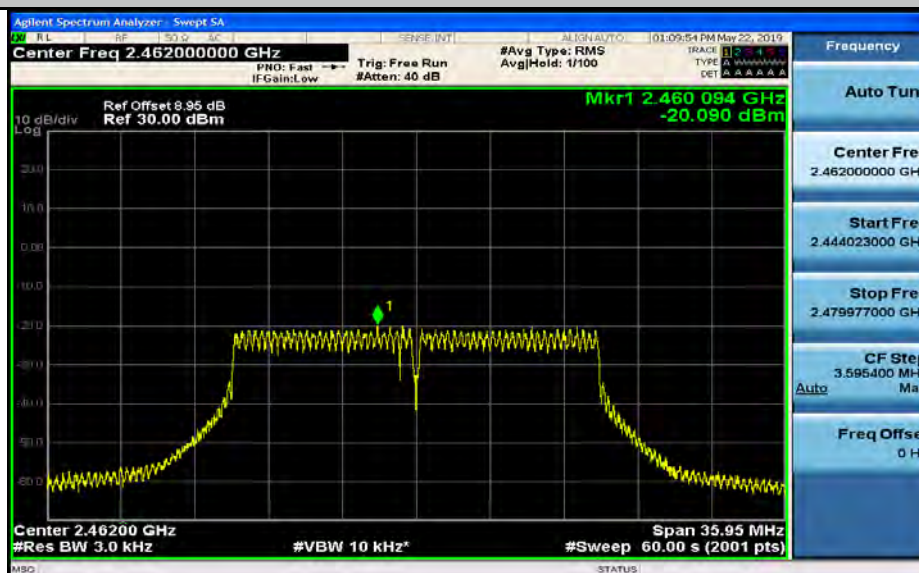
Maximum(average) power spectral density_11N20SISO_2412_Ant1



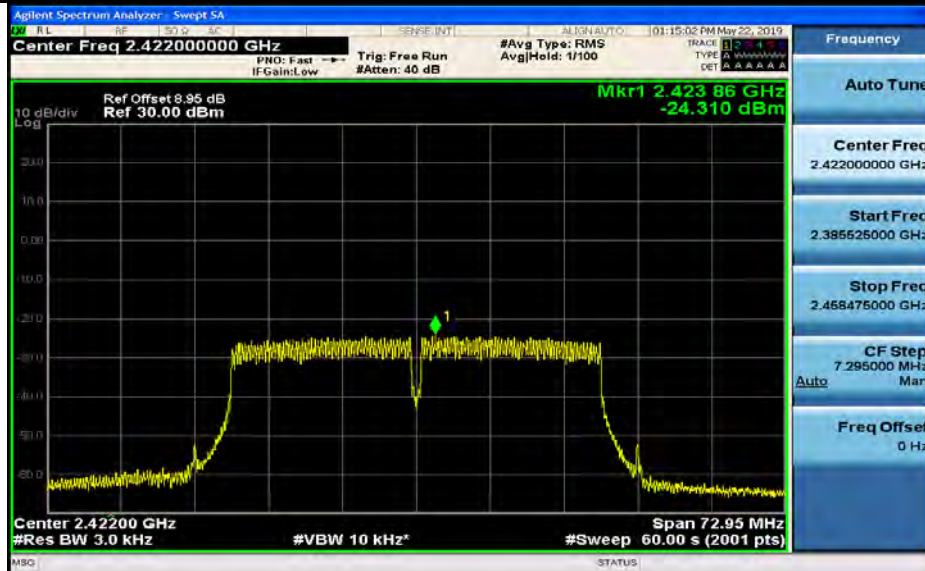
Maximum(average) power spectral density_11N20SISO_2437_Ant1



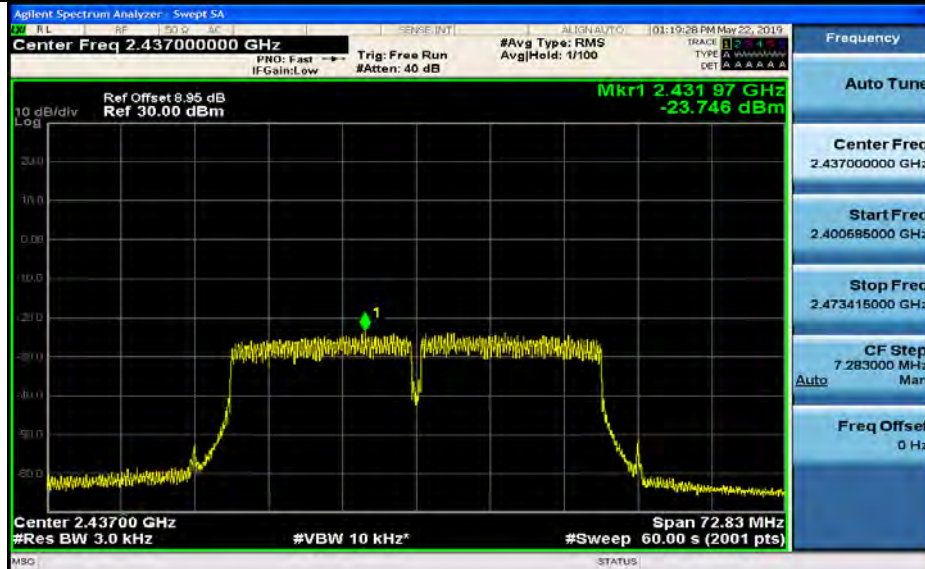
Maximum(average) power spectral density_11N20SISO_2462_Ant1



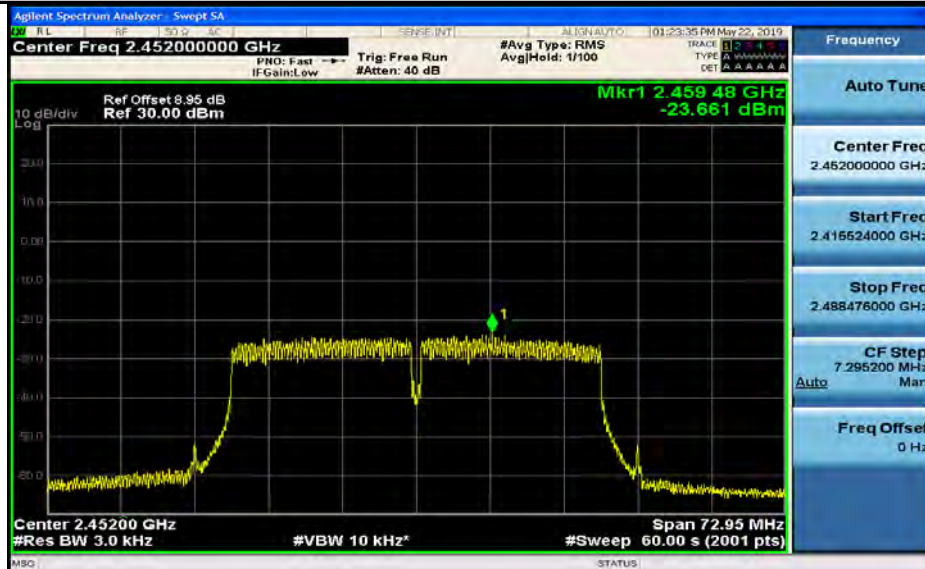
Maximum(average) power spectral density_11N40SISO_2422_Ant1



Maximum(average) power spectral density_11N40SISO_2437_Ant1



Maximum(average) power spectral density_11N40SISO_2452_Ant1





5.Band-edge for RF Conducted Emissions

| Test Mode | Test Channel | Ant | Carrier Power[dBm] | Max. Spurious Level [dBm] | Limit [dBm] | Verdict |
|-----------|--------------|------|--------------------|---------------------------|-------------|---------|
| 11B | 2412 | Ant1 | 5.78 | -28.47 | -24.22 | PASS |
| 11B | 2462 | Ant1 | 5.97 | -49.29 | -24.04 | PASS |
| 11G | 2412 | Ant1 | 3.43 | -30.01 | -26.57 | PASS |
| 11G | 2462 | Ant1 | 3.14 | -41.86 | -26.86 | PASS |
| 11N20SISO | 2412 | Ant1 | 3.07 | -30.51 | -26.93 | PASS |
| 11N20SISO | 2462 | Ant1 | 3.31 | -37.35 | -26.69 | PASS |
| 11N40SISO | 2422 | Ant1 | -0.07 | -32.84 | -30.07 | PASS |
| 11N40SISO | 2452 | Ant1 | -0.07 | -38.40 | -30.07 | PASS |

Band-edge for RF Conducted Emissions_11B_2412_Ant1



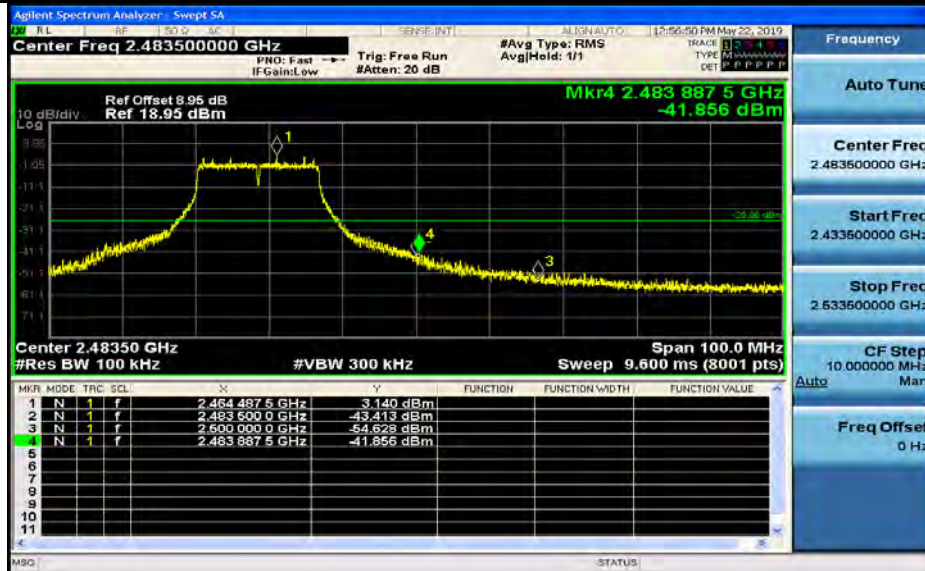
Band-edge for RF Conducted Emissions_11B_2462_Ant1



Band-edge for RF Conducted Emissions_11G_2412_Ant1



Band-edge for RF Conducted Emissions_11G_2462_Ant1



Band-edge for RF Conducted Emissions_11N20SISO_2412_Ant1



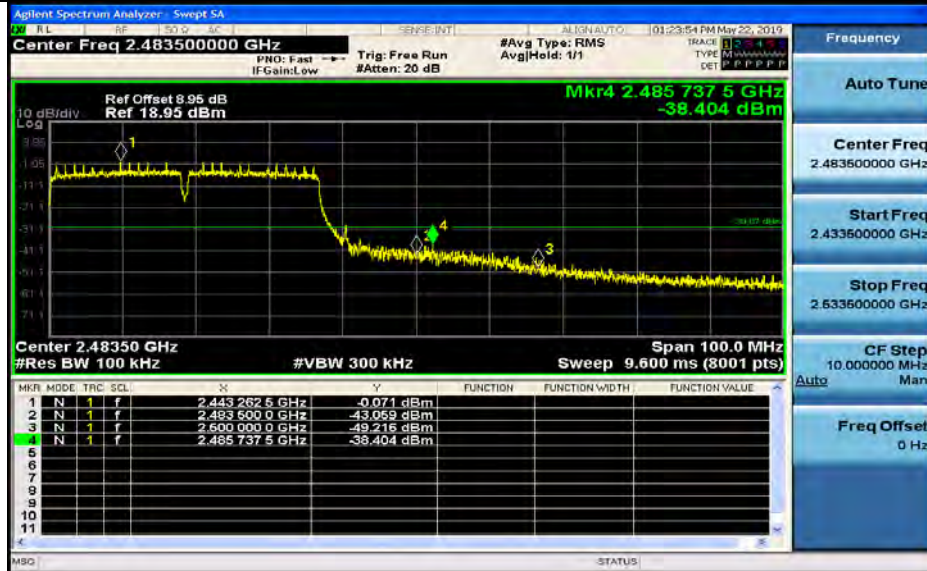
Band-edge for RF Conducted Emissions_11N20SISO_2462_Ant1



Band-edge for RF Conducted Emissions_11N40SISO_2422_Ant1



Band-edge for RF Conducted Emissions_11N40SISO_2452_Ant1



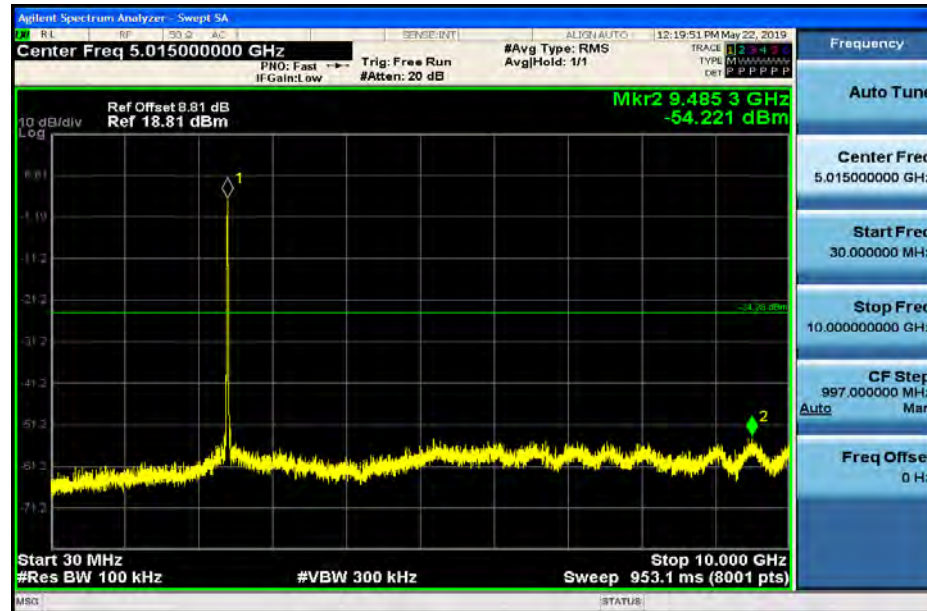
6.RF Conducted Spurious Emissions

| Test Mode | Test Channel | Ant | StartFre [MHz] | StopFre [MHz] | RBW [kHz] | VBW [kHz] | Pref[dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|-----------|--------------|------|----------------|---------------|-----------|-----------|-----------|------------------|--------------|---------|
| 11B | 2412 | Ant1 | 30 | 10000 | 100 | 300 | 5.72 | -54.22 | <- 24.28 | PASS |
| 11B | 2412 | Ant1 | 10000 | 26000 | 100 | 300 | 5.717 | -43.913 | <- 24.283 | PASS |
| 11B | 2437 | Ant1 | 30 | 10000 | 100 | 300 | 5.99 | -53.70 | <- 24.01 | PASS |
| 11B | 2437 | Ant1 | 10000 | 26000 | 100 | 300 | 5.986 | -43.284 | <- 24.014 | PASS |
| 11B | 2462 | Ant1 | 30 | 10000 | 100 | 300 | 5.77 | -52.74 | <- 24.24 | PASS |
| 11B | 2462 | Ant1 | 10000 | 26000 | 100 | 300 | 5.765 | -43.660 | <- 24.235 | PASS |
| 11G | 2412 | Ant1 | 30 | 10000 | 100 | 300 | 3.39 | -54.31 | <- 26.61 | PASS |
| 11G | 2412 | Ant1 | 10000 | 26000 | 100 | 300 | 3.389 | -42.805 | <- 26.611 | PASS |
| 11G | 2437 | Ant1 | 30 | 10000 | 100 | 300 | 3.31 | -54.54 | <- 26.69 | PASS |
| 11G | 2437 | Ant1 | 10000 | 26000 | 100 | 300 | 3.313 | -43.557 | <- 26.687 | PASS |
| 11G | 2462 | Ant1 | 30 | 10000 | 100 | 300 | 3.26 | -54.39 | <- 26.74 | PASS |
| 11G | 2462 | Ant1 | 10000 | 26000 | 100 | 300 | 3.257 | -44.079 | <- 26.743 | PASS |
| 11N20SISO | 2412 | Ant1 | 30 | 10000 | 100 | 300 | 2.94 | -54.30 | <- 27.06 | PASS |
| 11N20SISO | 2412 | Ant1 | 10000 | 26000 | 100 | 300 | 2.944 | -43.655 | <- 27.056 | PASS |
| 11N20SISO | 2437 | Ant1 | 30 | 10000 | 100 | 300 | 3.35 | -52.96 | <- 26.65 | PASS |
| 11N20SISO | 2437 | Ant1 | 10000 | 26000 | 100 | 300 | 3.348 | -44.059 | <- 26.652 | PASS |
| 11N20SISO | 2462 | Ant1 | 30 | 10000 | 100 | 300 | 3.28 | -54.20 | <- 26.72 | PASS |
| 11N20SISO | 2462 | Ant1 | 10000 | 26000 | 100 | 300 | 3.279 | -44.323 | <- 26.721 | PASS |
| 11N40SISO | 2422 | Ant1 | 30 | 10000 | 100 | 300 | -0.16 | -53.67 | <- 30.16 | PASS |
| 11N40SISO | 2422 | Ant1 | 10000 | 26000 | 100 | 300 | -0.164 | -44.045 | <- 30.164 | PASS |
| 11N40SISO | 2437 | Ant1 | 30 | 10000 | 100 | 300 | 0.10 | -53.04 | <- 29.90 | PASS |
| 11N40SISO | 2437 | Ant1 | 10000 | 26000 | 100 | 300 | 0.102 | -43.235 | <- 29.898 | PASS |
| 11N40SISO | 2452 | Ant1 | 30 | 10000 | 100 | 300 | -0.03 | -53.64 | <- 30.03 | PASS |

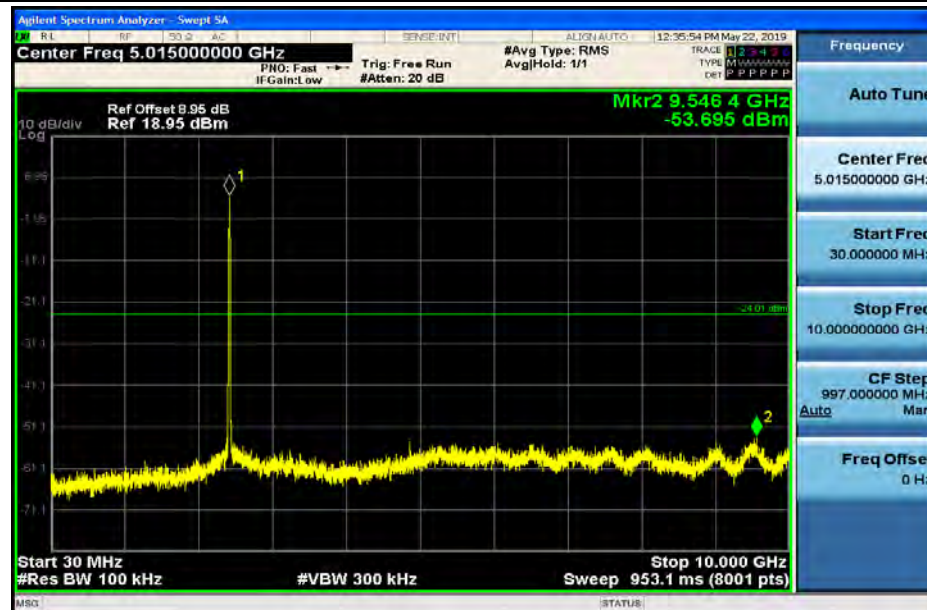


| | | | | | | | | | | |
|-----------|------|------|-------|-------|-----|-----|--------|---------|--------------|------|
| 11N40SISO | 2452 | Ant1 | 10000 | 26000 | 100 | 300 | -0.025 | -43.284 | <- 30.025 | PASS |
|-----------|------|------|-------|-------|-----|-----|--------|---------|--------------|------|

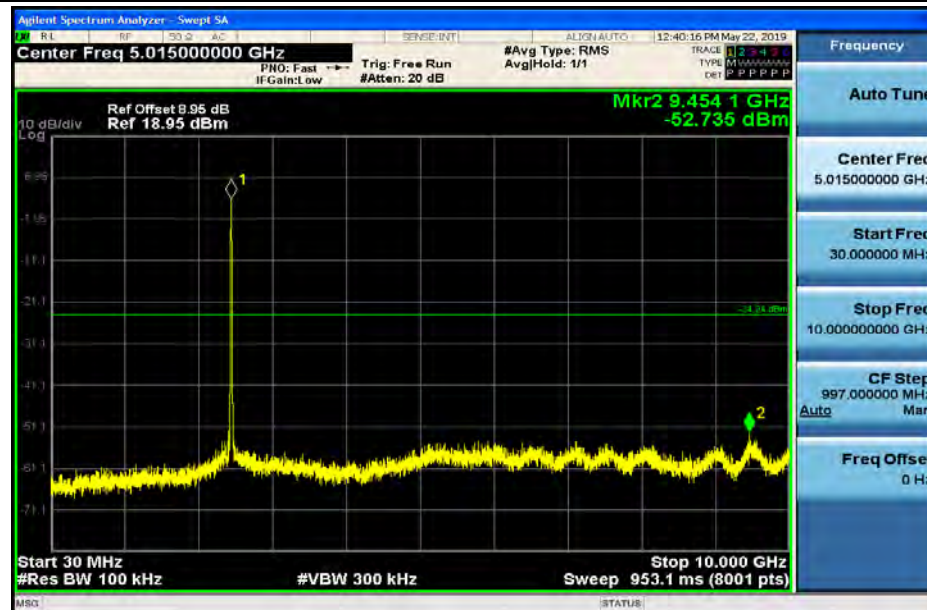
RF Conducted Spurious Emissions_11B_2412



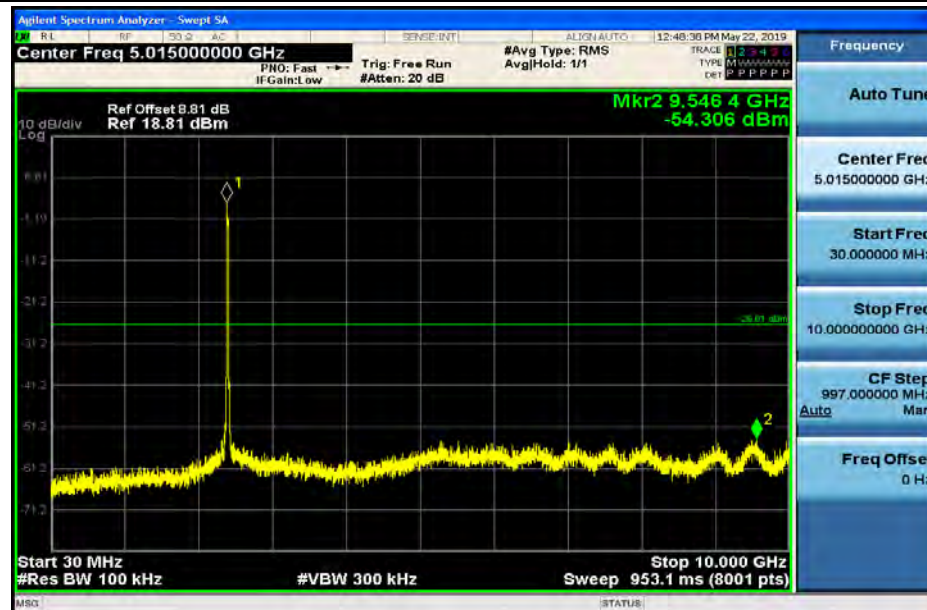
RF Conducted Spurious Emissions_11B_2437



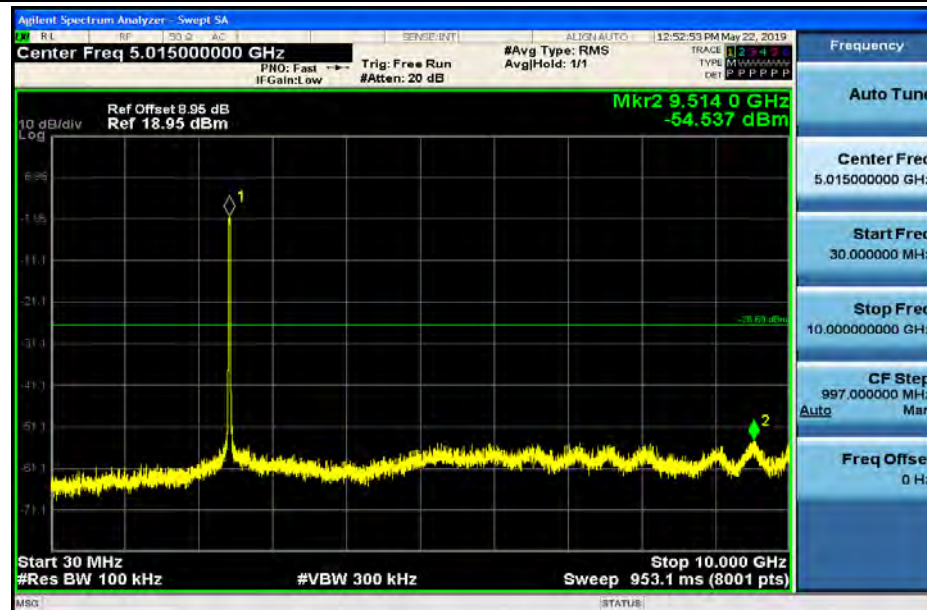
RF Conducted Spurious Emissions_11B_2462



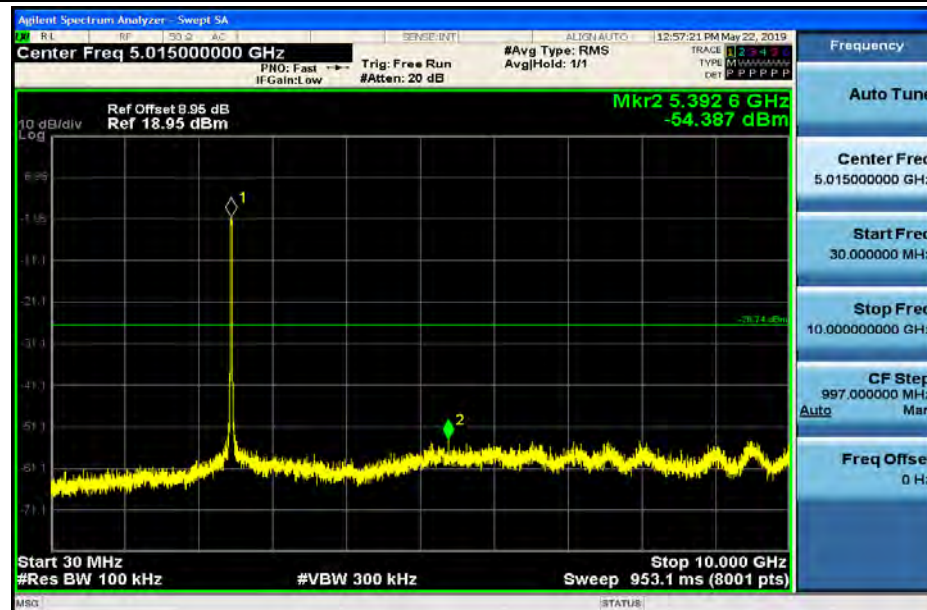
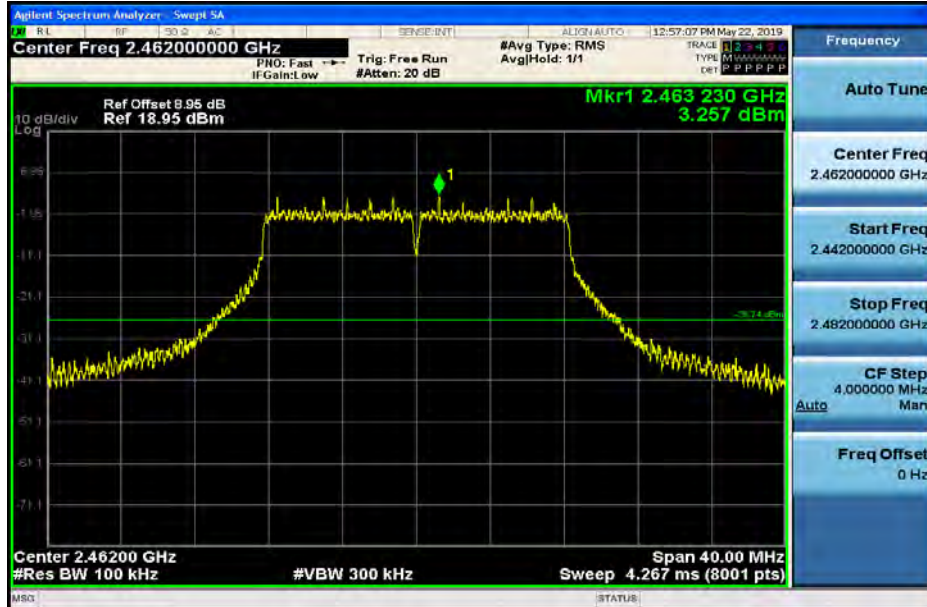
RF Conducted Spurious Emissions_11G_2412



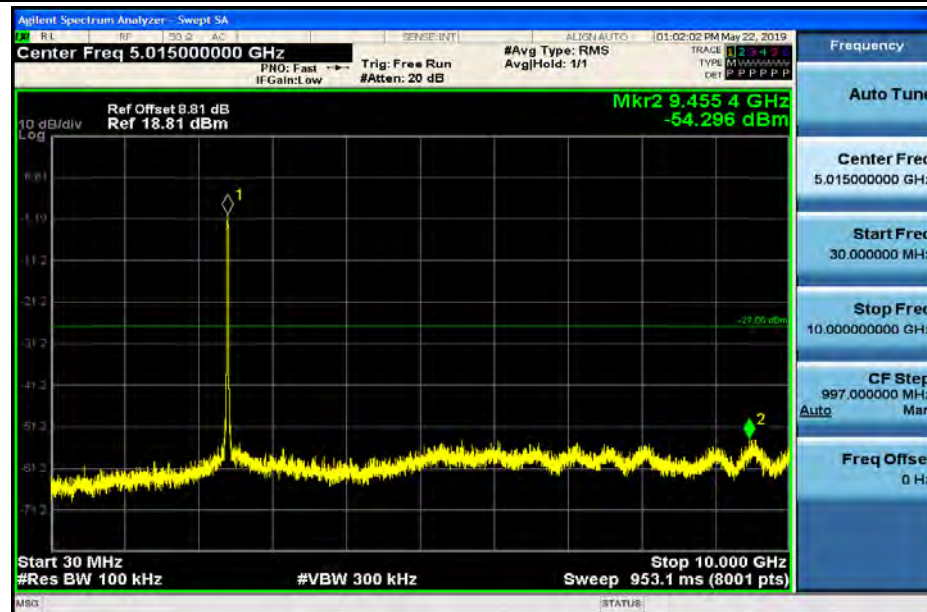
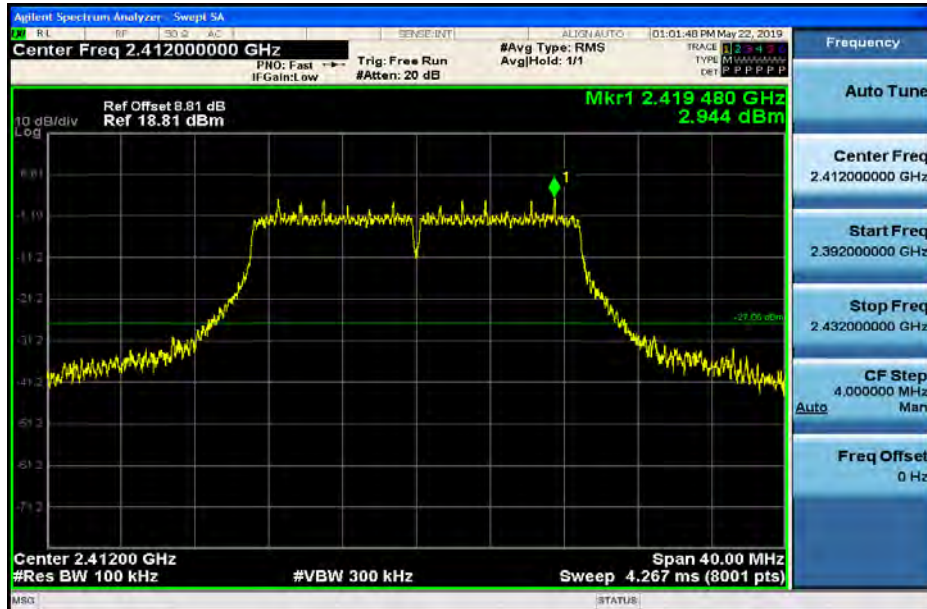
RF Conducted Spurious Emissions_11G_2437



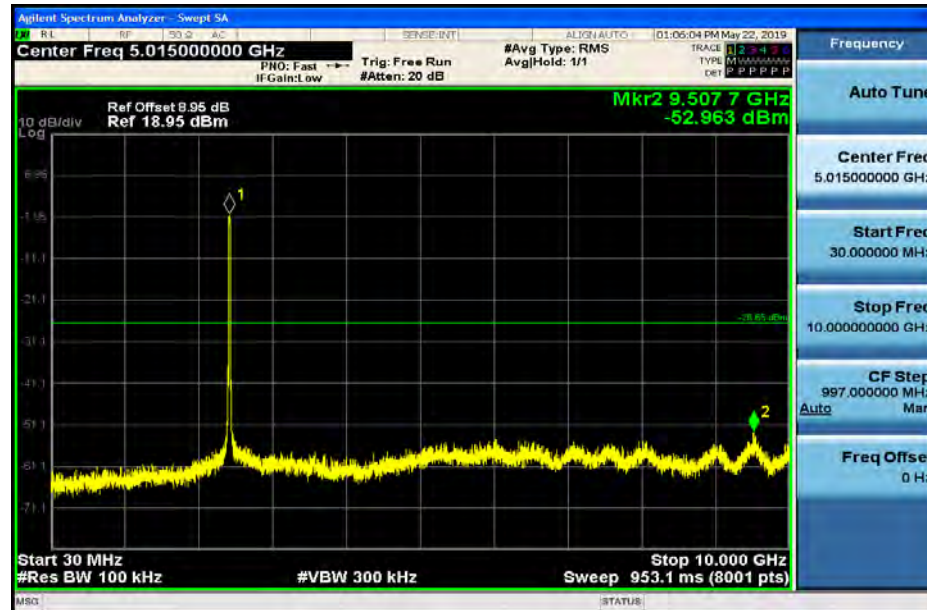
RF Conducted Spurious Emissions_11G_2462



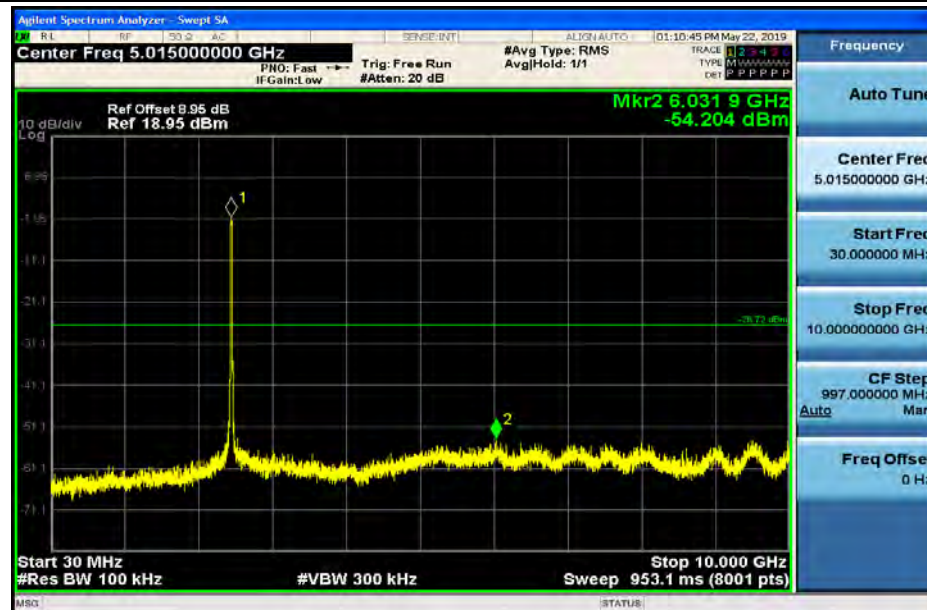
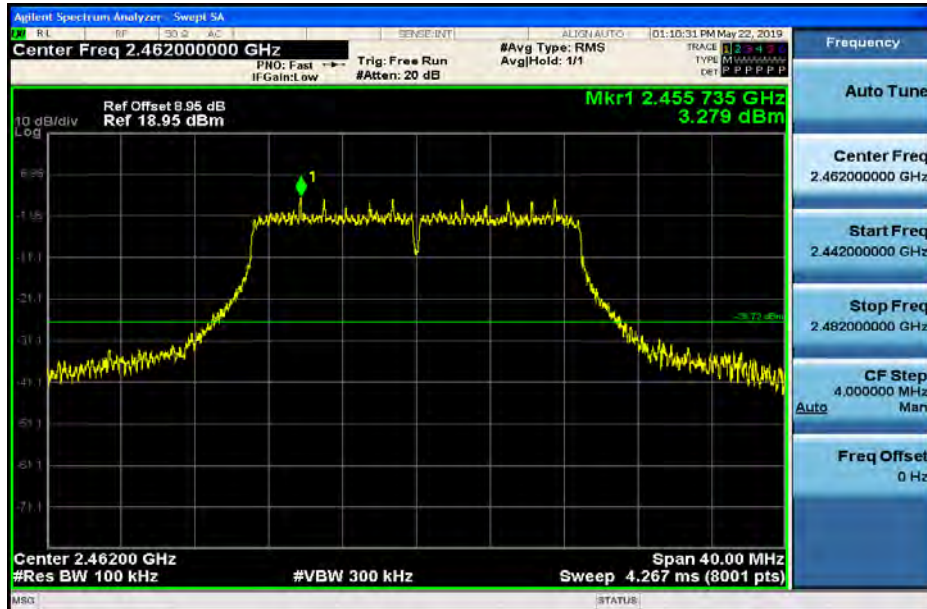
RF Conducted Spurious Emissions_11N20SISO_2412



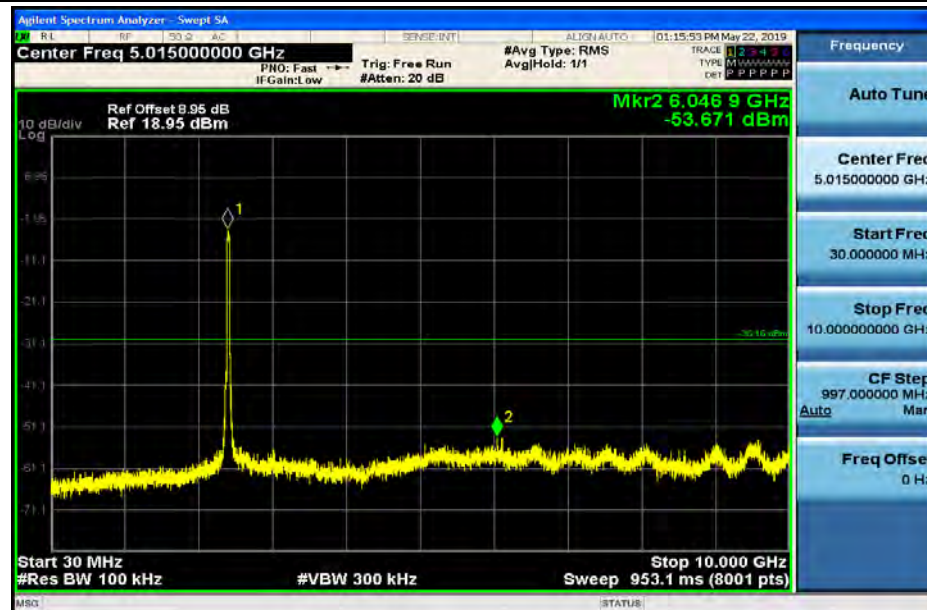
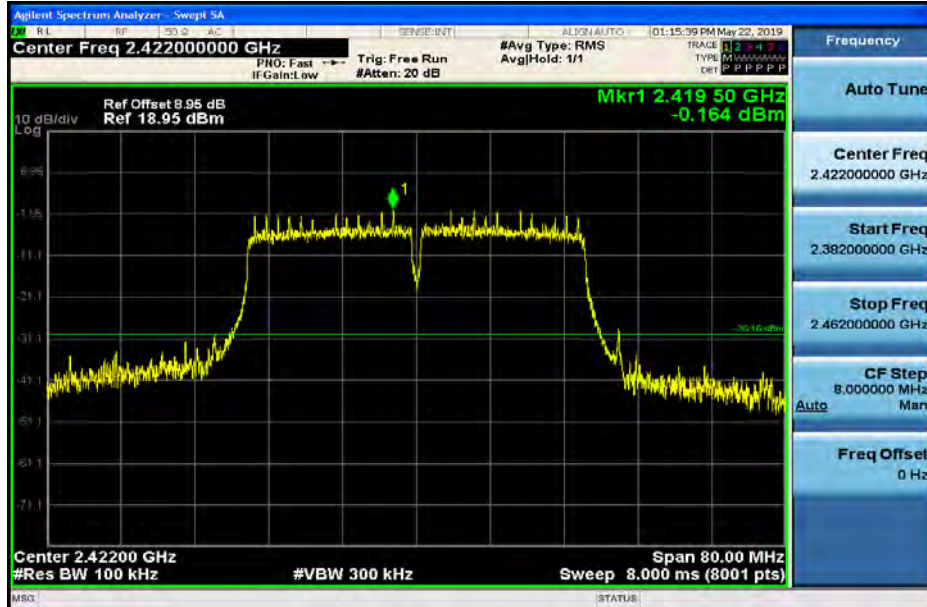
RF Conducted Spurious Emissions_11N20SISO_2437



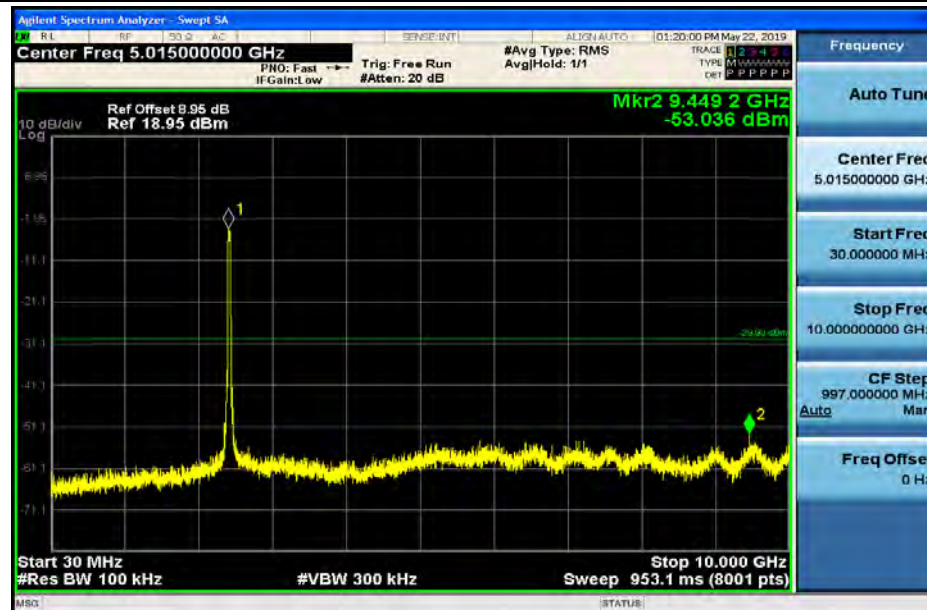
RF Conducted Spurious Emissions_11N20SISO_2462



RF Conducted Spurious Emissions_11N40SISO_2422



RF Conducted Spurious Emissions_11N40SISO_2437



RF Conducted Spurious Emissions_11N40SISO_2452

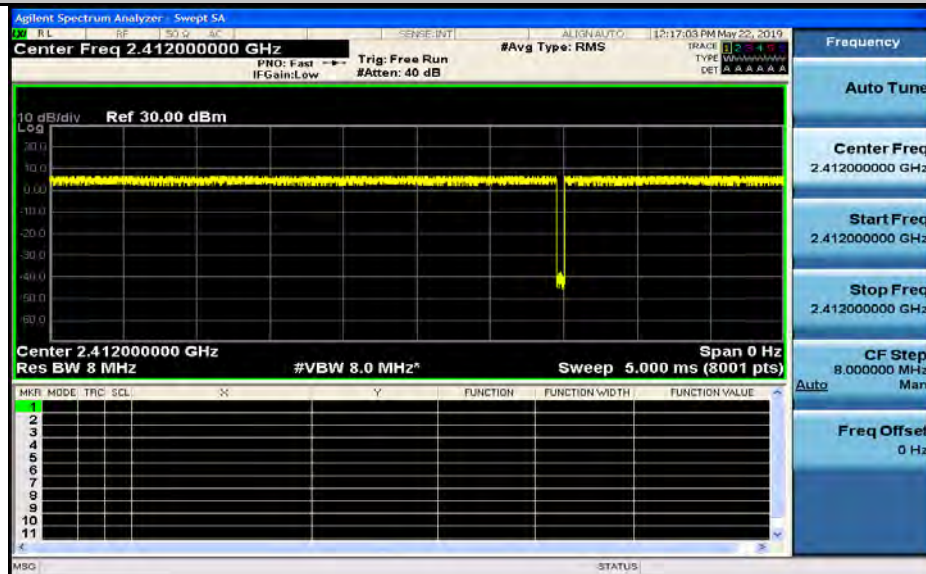




7.Duty Cycle

| Test Mode | Test Channel | Ant | Duty Cycle[%] | 10log(1/x) Factor[dB] |
|-----------|--------------|------|---------------|-----------------------|
| 11B | 2412 | Ant1 | 100.00 | 0.00 |
| 11B | 2437 | Ant1 | 100.00 | 0.00 |
| 11B | 2462 | Ant1 | 100.00 | 0.00 |
| 11G | 2412 | Ant1 | 94.97 | 0.22 |
| 11G | 2437 | Ant1 | 97.40 | 0.11 |
| 11G | 2462 | Ant1 | 96.15 | 0.17 |
| 11N20SISO | 2412 | Ant1 | 95.88 | 0.18 |
| 11N20SISO | 2437 | Ant1 | 92.58 | 0.33 |
| 11N20SISO | 2462 | Ant1 | 95.88 | 0.18 |
| 11N40SISO | 2422 | Ant1 | 90.35 | 0.44 |
| 11N40SISO | 2437 | Ant1 | 85.93 | 0.66 |
| 11N40SISO | 2452 | Ant1 | 95.32 | 0.21 |

Duty Cycle_11B_2412_Ant1



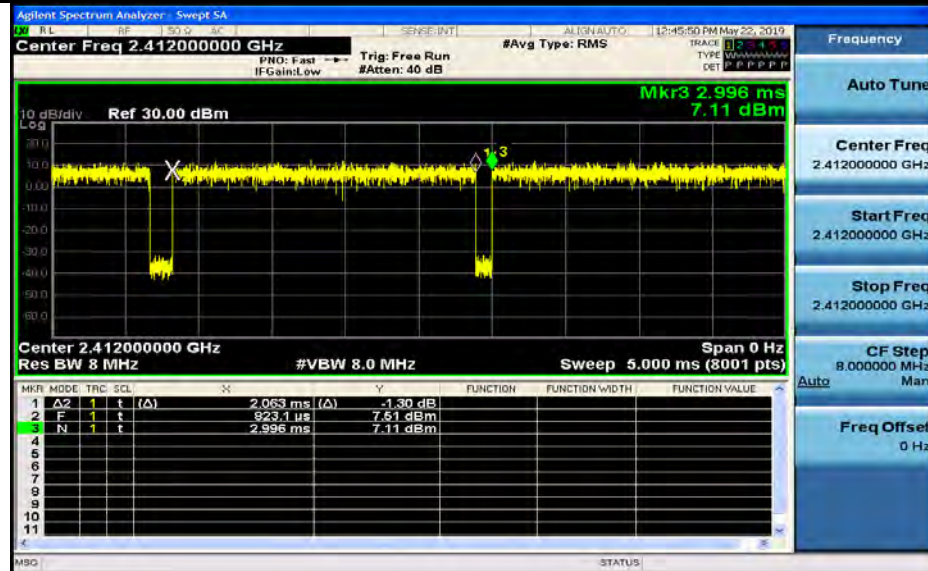
Duty Cycle_11B_2437_Ant1



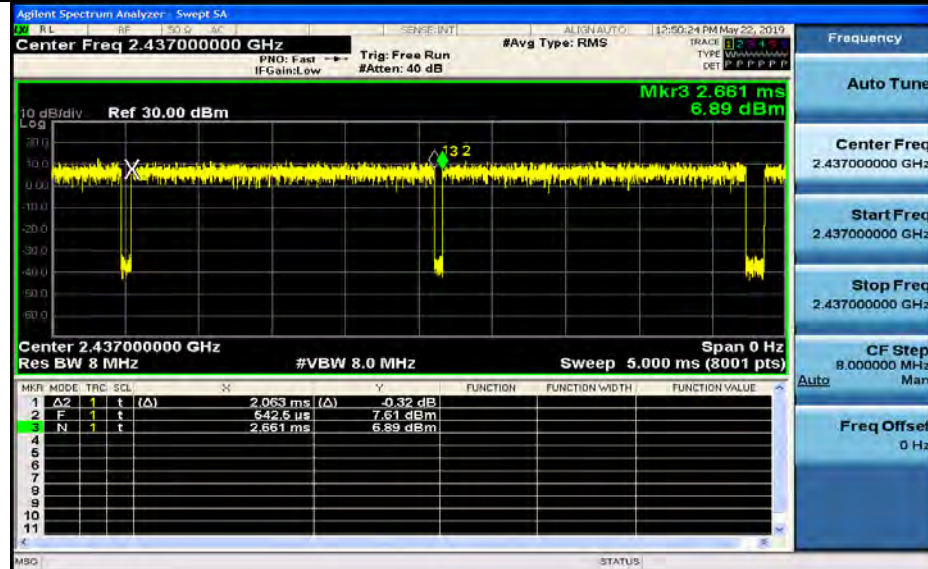
Duty Cycle_11B_2462_Ant1



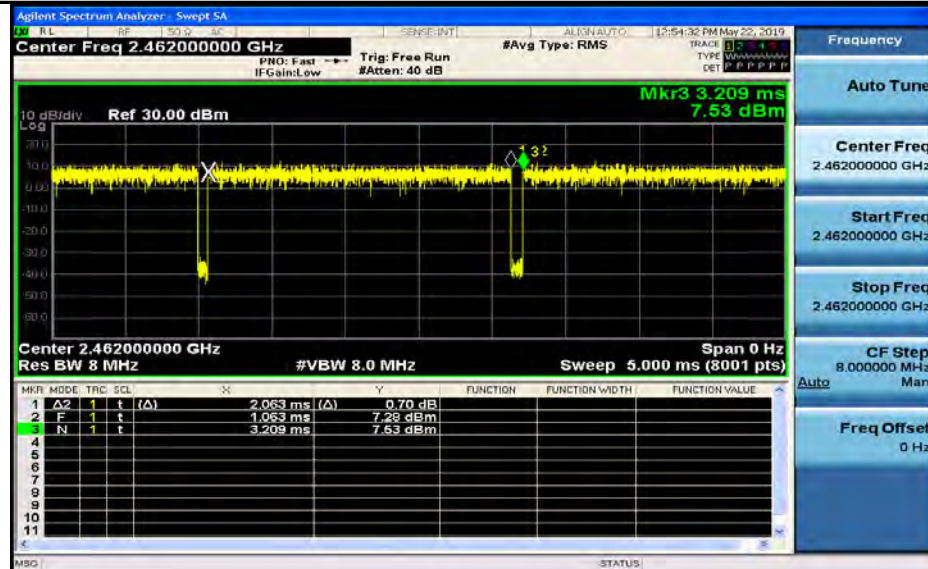
Duty Cycle_11G_2412_Ant1



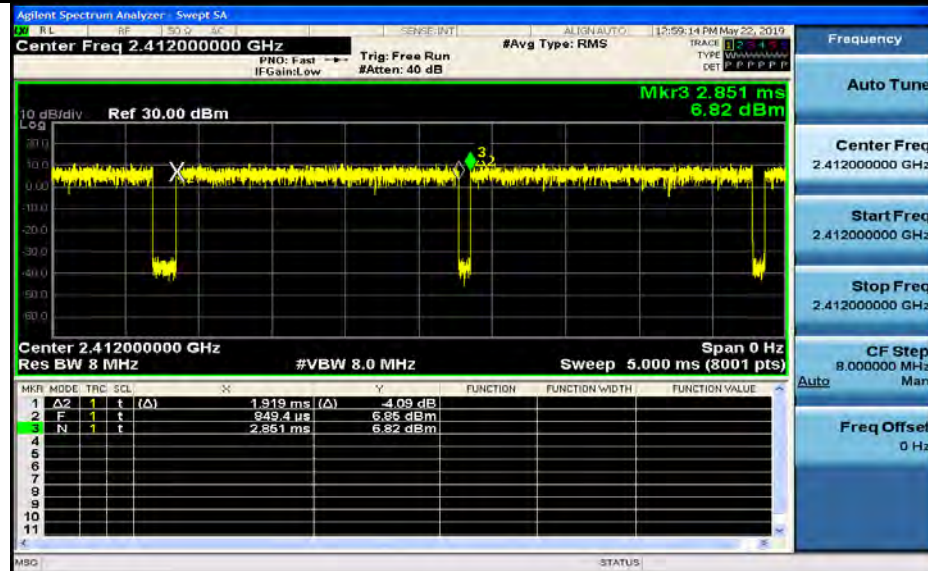
Duty Cycle_11G_2437_Ant1



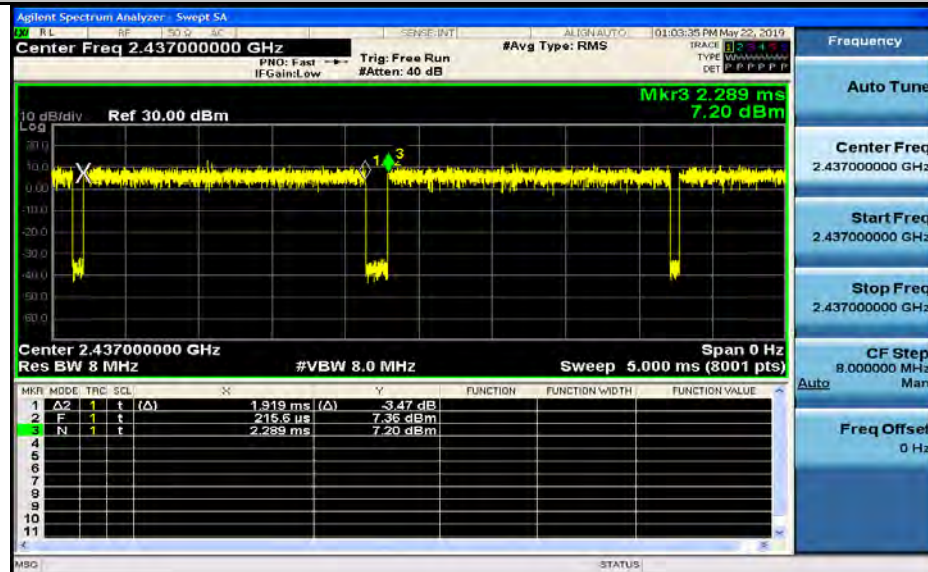
Duty Cycle_11G_2462_Ant1



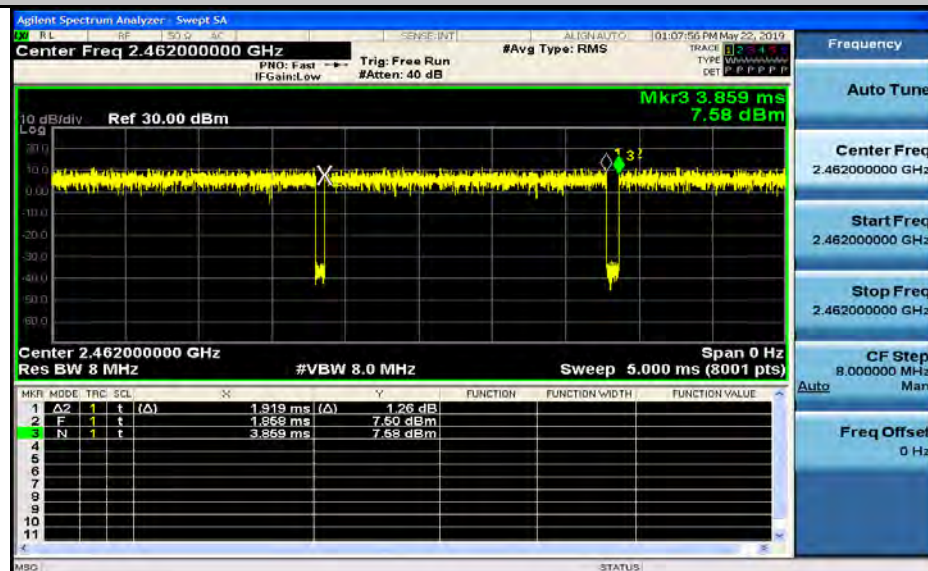
Duty Cycle_11N20SISO_2412_Ant1



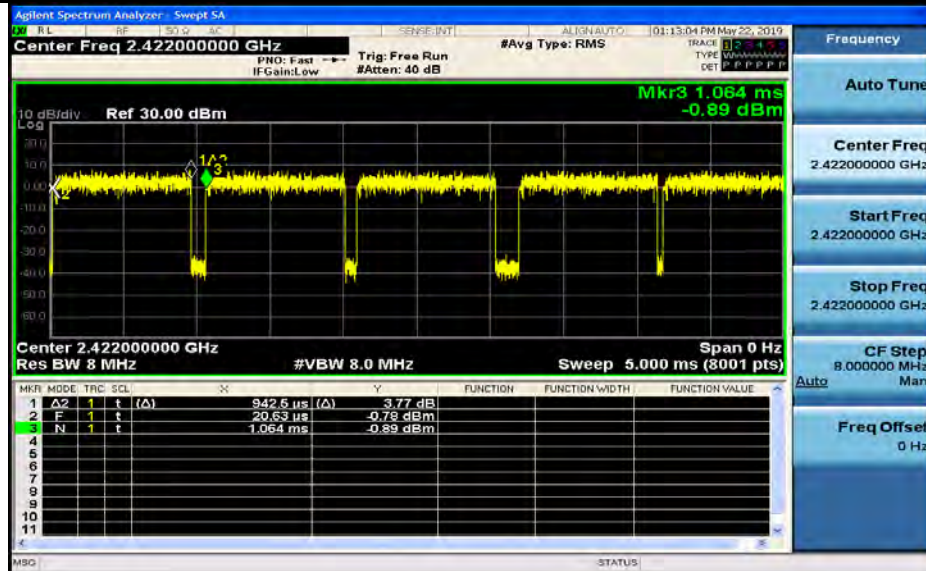
Duty Cycle_11N20SISO_2437_Ant1



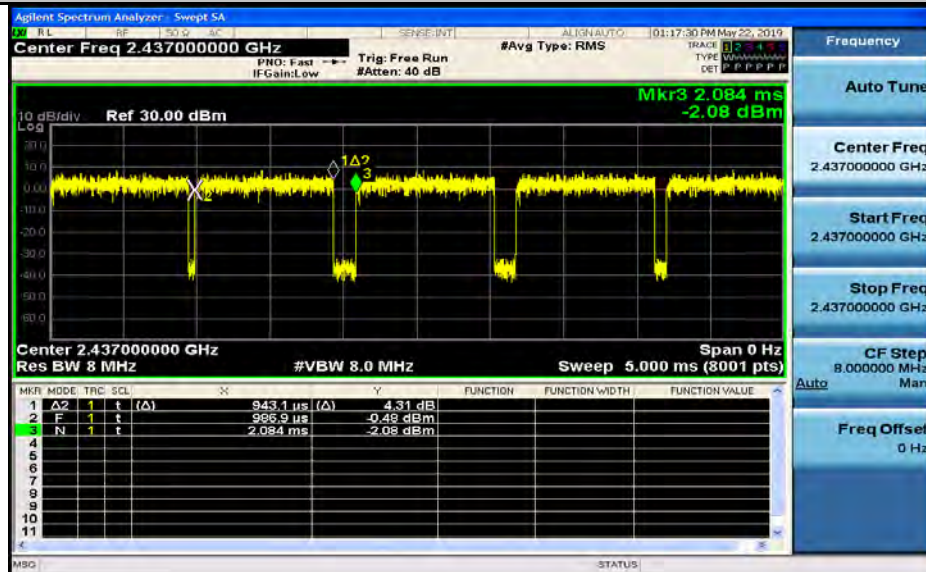
Duty Cycle_11N20SISO_2462_Ant1



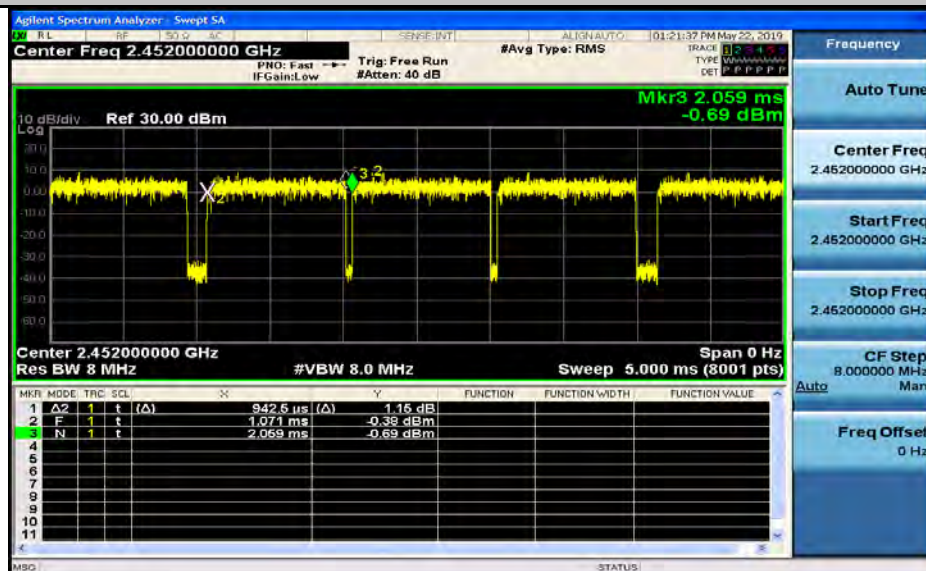
Duty Cycle_11N40SISO_2422_Ant1



Duty Cycle_11N40SISO_2437_Ant1



Duty Cycle_11N40SISO_2452_Ant1





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