

LTE Band 5_3M Spectrum Plot

1RB#0

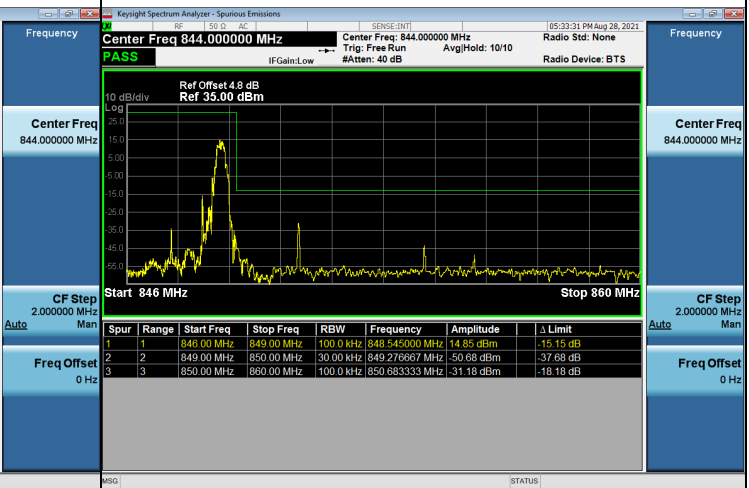
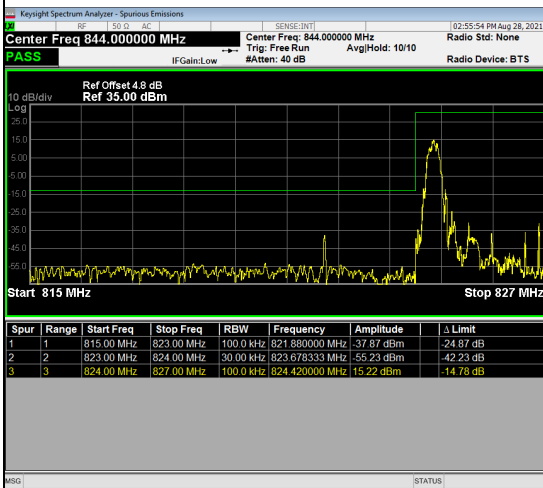
1RB#5

Channel

20415

Channel

20635



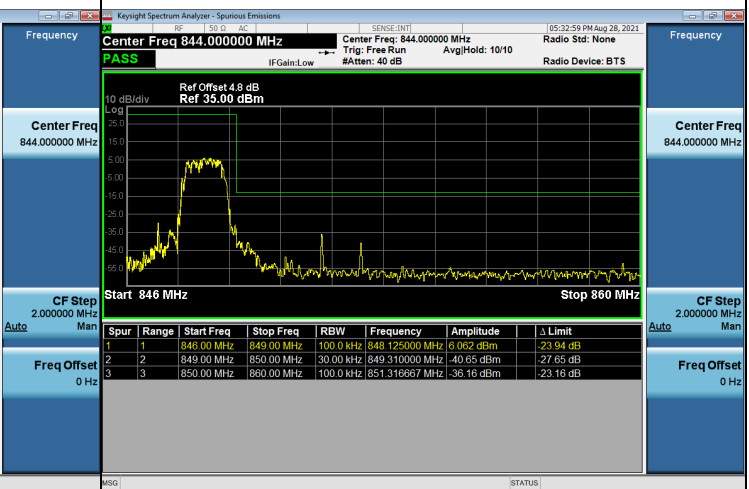
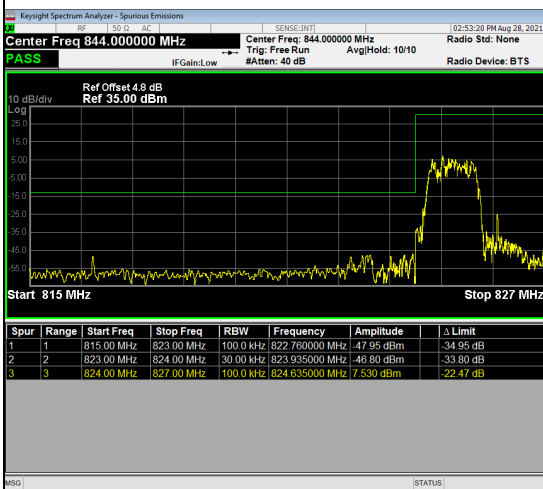
6RB#0

Channel

20415

Channel

20635



LTE Band 5_5M Spectrum Plot

1RB#0

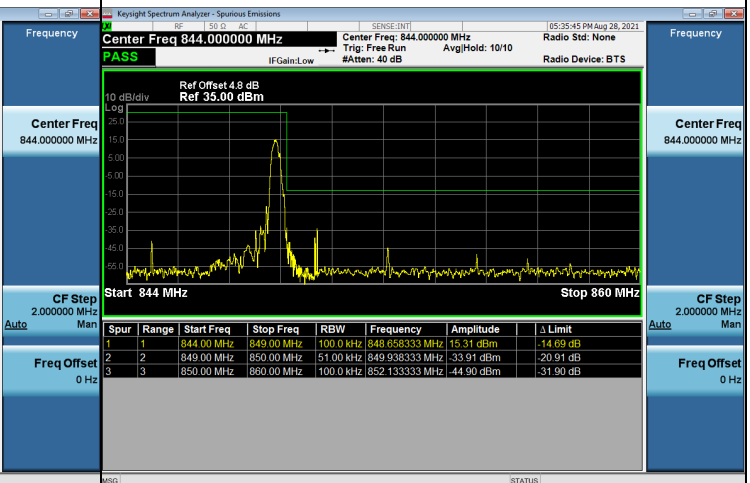
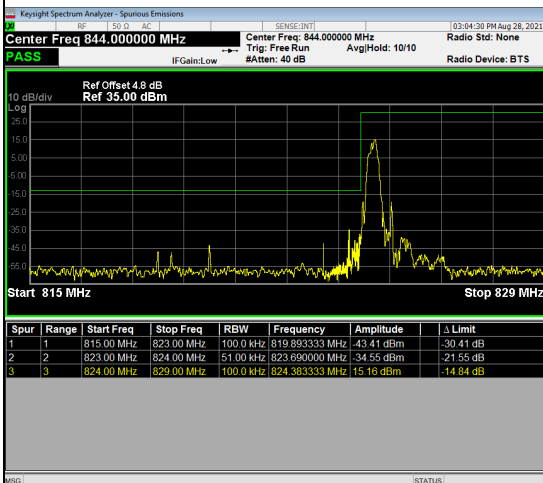
1RB#5

Channel

20425

Channel

20625



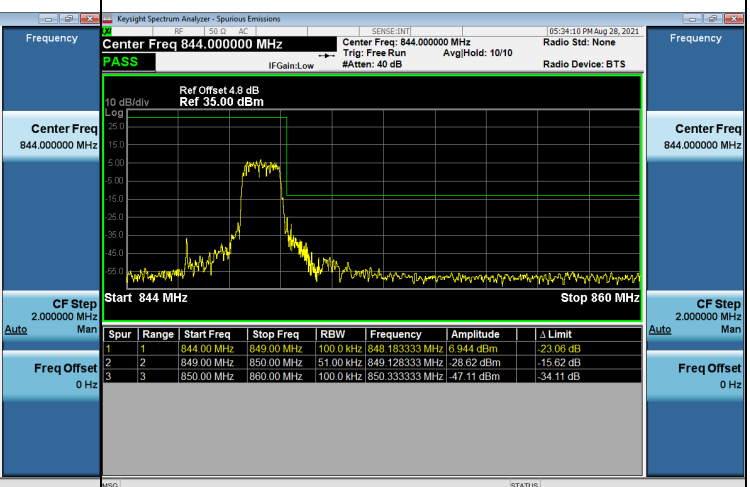
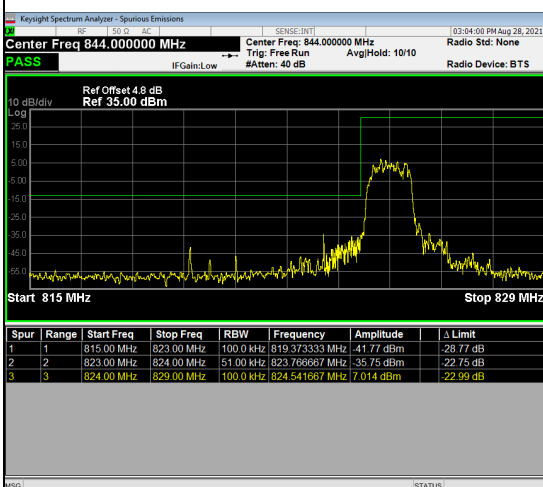
6RB#0

Channel

20425

Channel

20625



LTE Band 5_10M Spectrum Plot

1RB#0

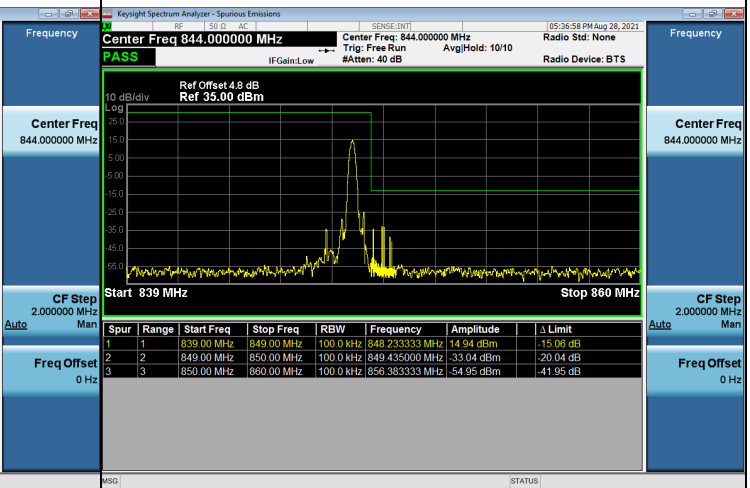
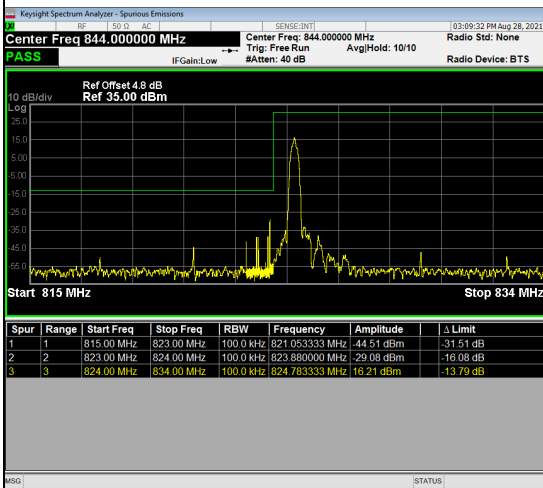
1RB#5

Channel

20450

Channel

20600



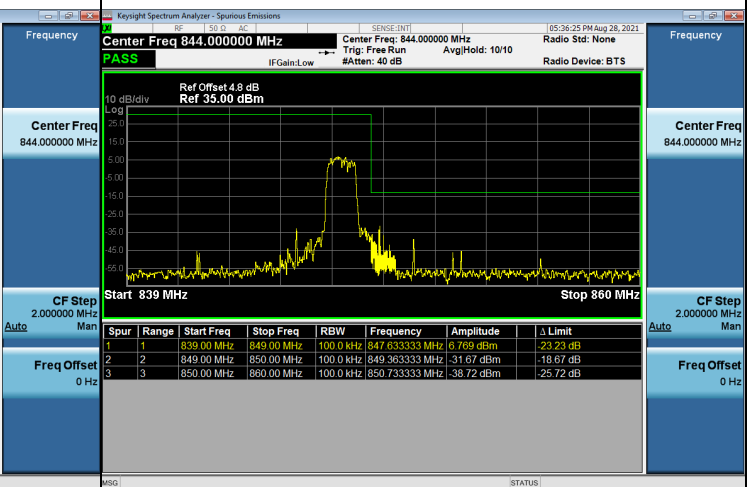
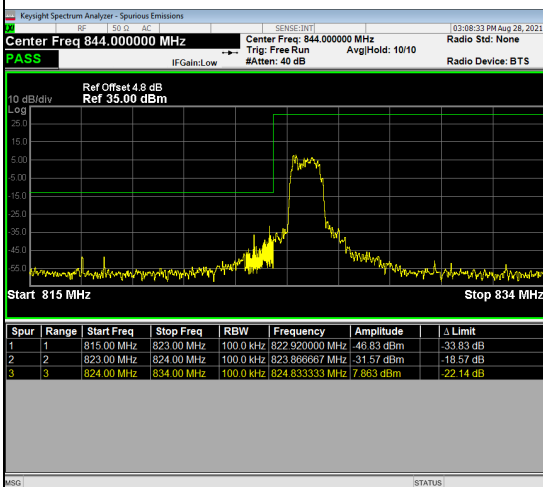
6RB#0

Channel

20450

Channel

20600



LTE Band 26_1.4M Spectrum Plot

1RB#0

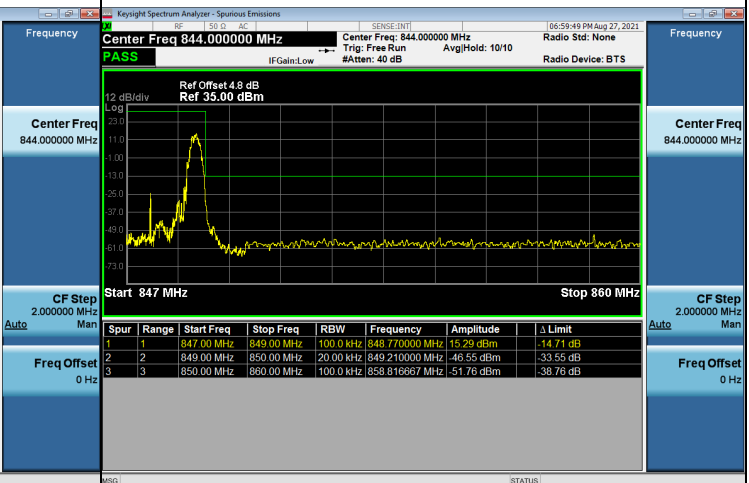
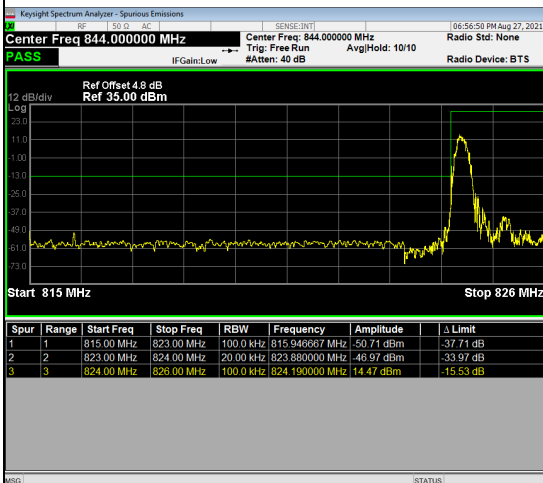
1RB#5

Channel

26797

Channel

27033



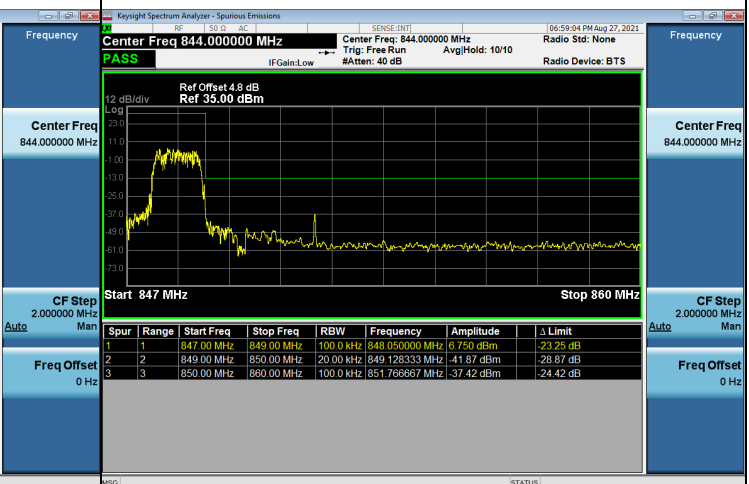
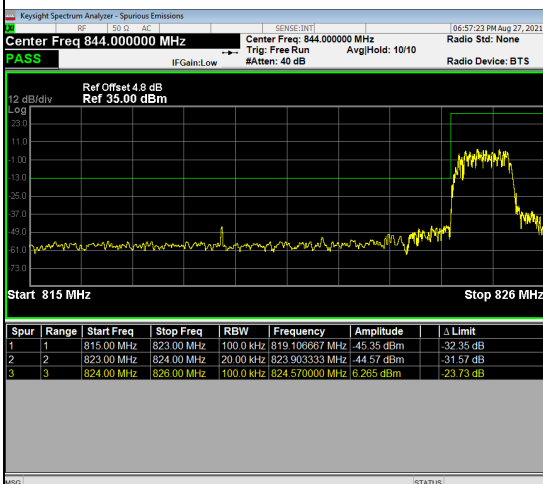
6RB#0

Channel

26797

Channel

27033



LTE Band 26_3M Spectrum Plot

1RB#0

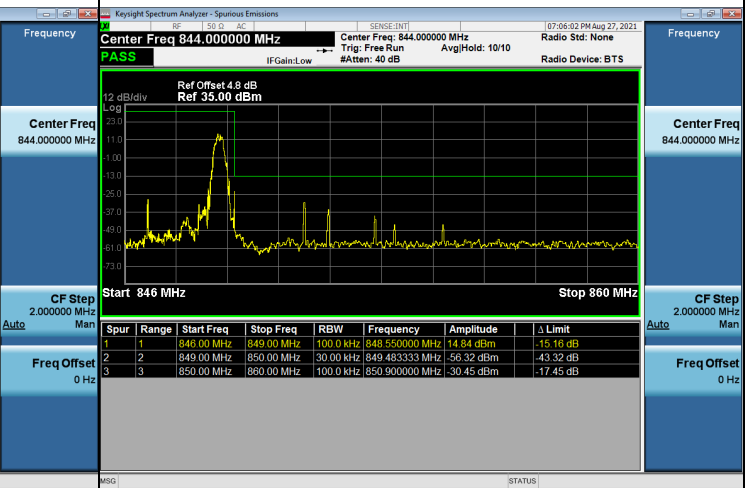
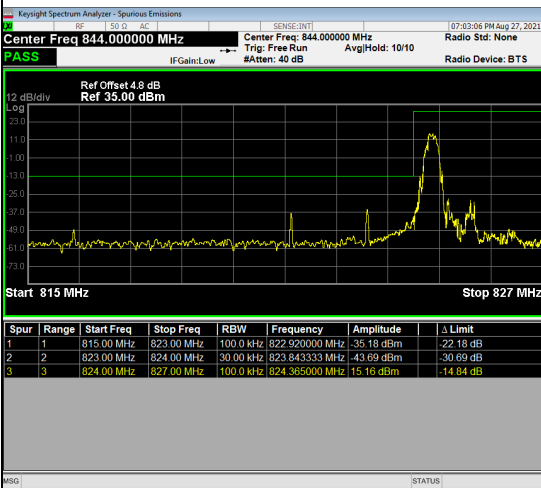
1RB#5

Channel

26805

Channel

27025



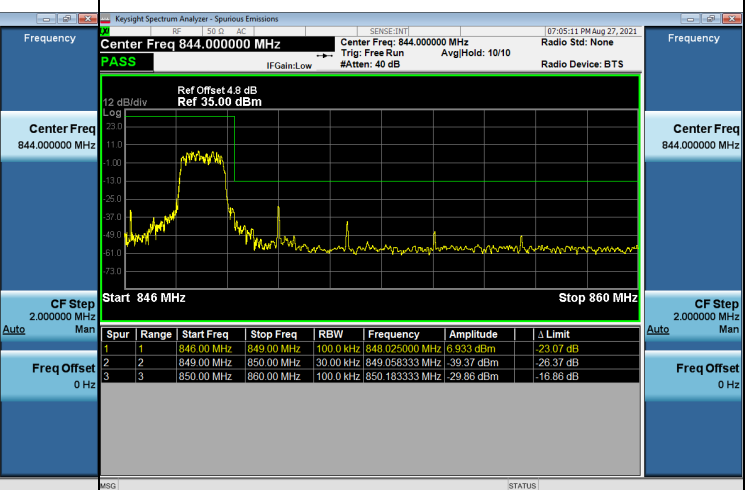
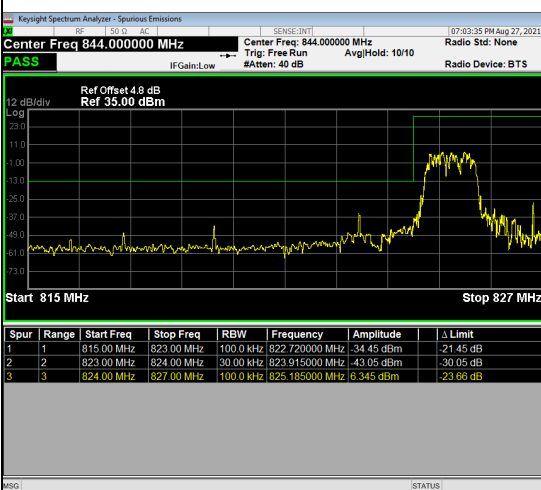
6RB#0

Channel

26805

Channel

27025



LTE Band 26_5M Spectrum Plot

1RB#0

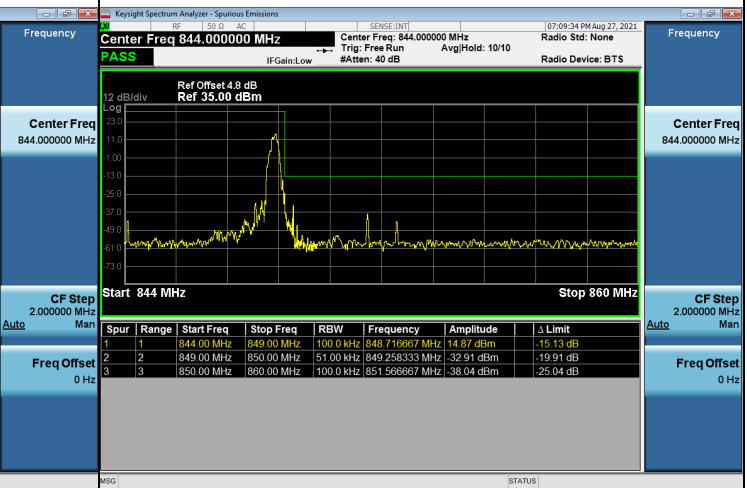
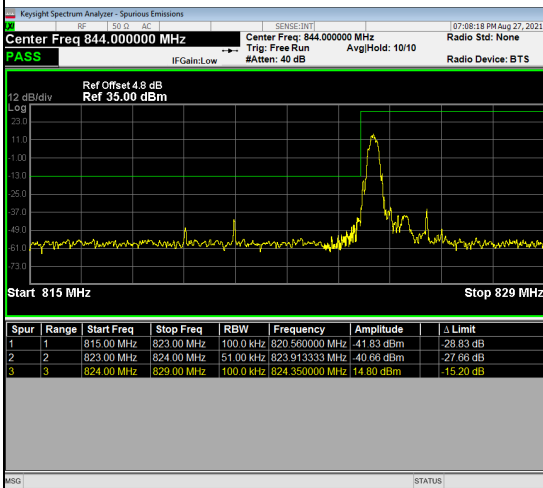
1RB#5

Channel

26815

Channel

27015



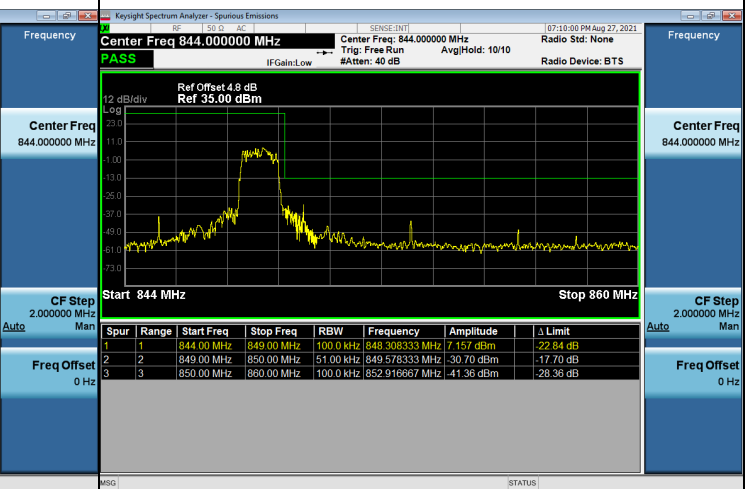
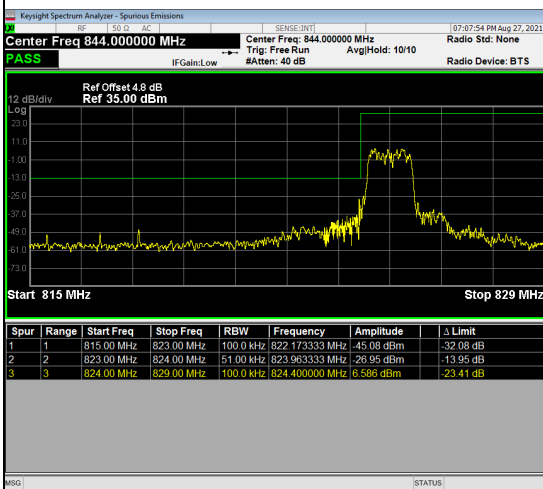
6RB#0

Channel

26815

Channel

27015



LTE Band 26_10M Spectrum Plot

1RB#0

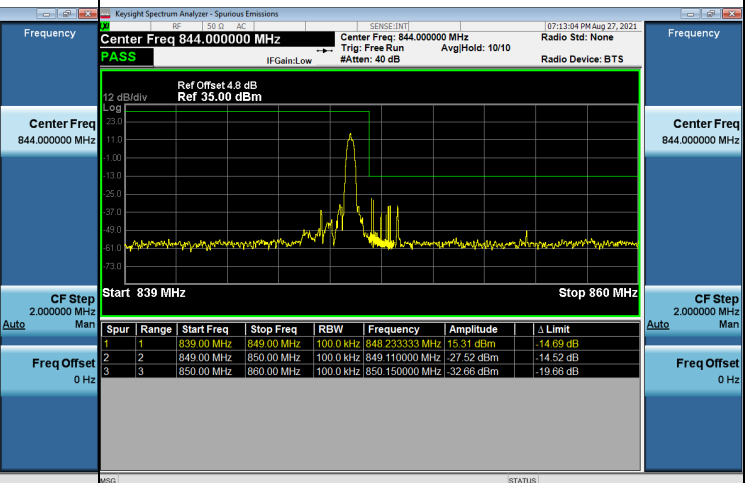
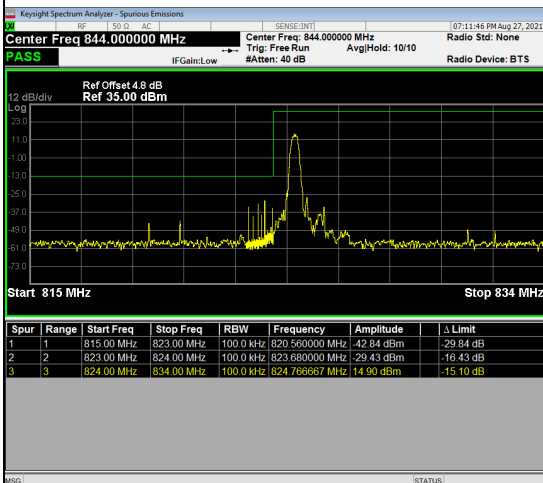
1RB#5

Channel

26840

Channel

26690



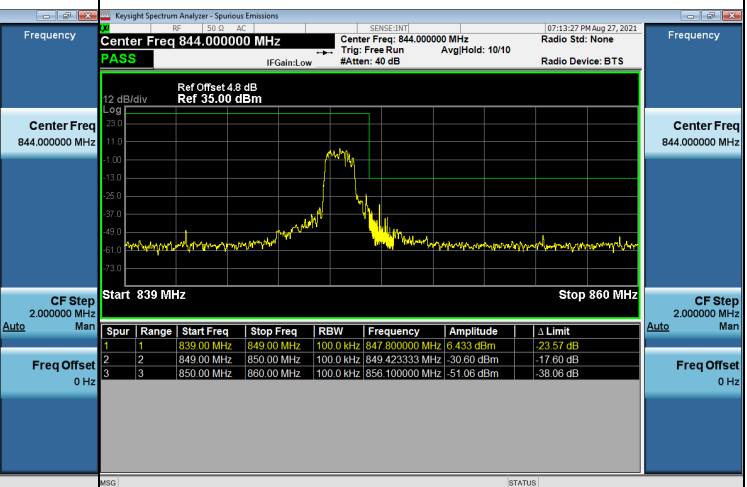
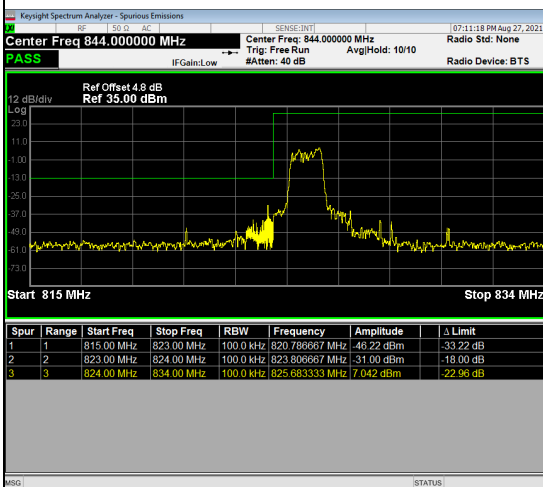
6RB#0

Channel

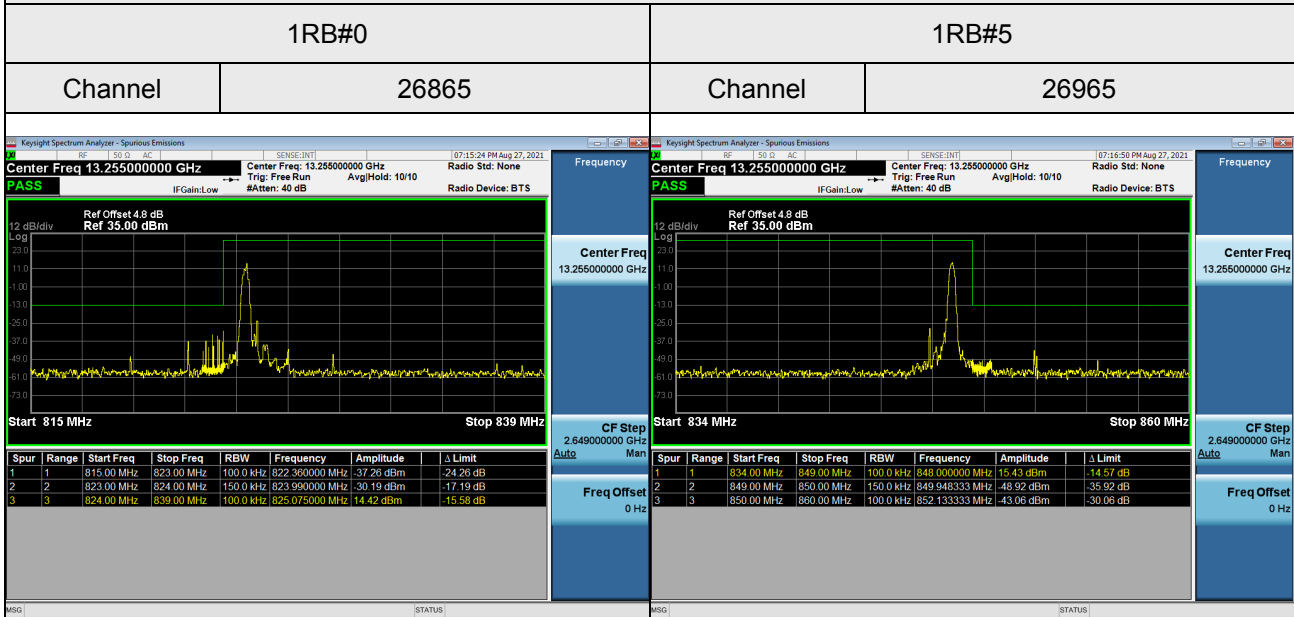
26840

Channel

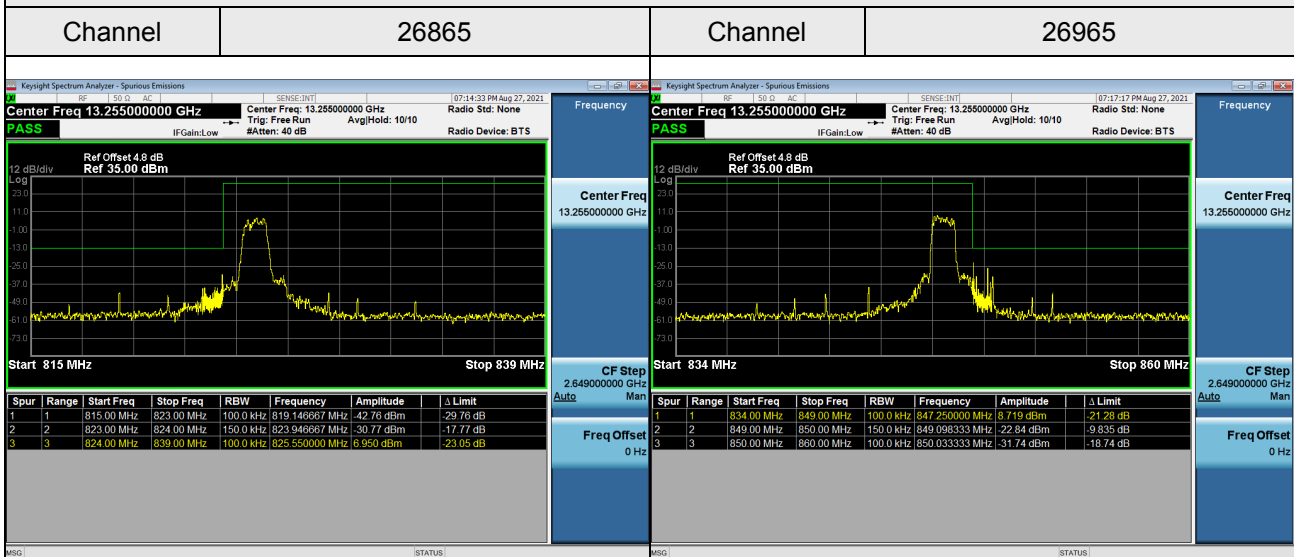
26690



LTE Band 26_15M Spectrum Plot



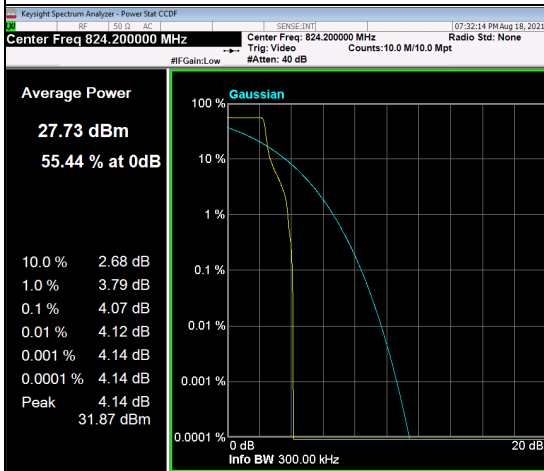
6RB#0



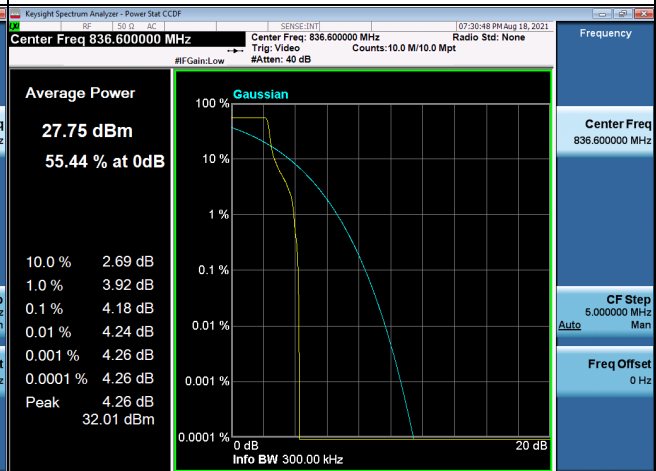
APPENDIX H - PEAK TO AVERAGE RATIO

GSM 850 Spectrum Plot

GSM-128



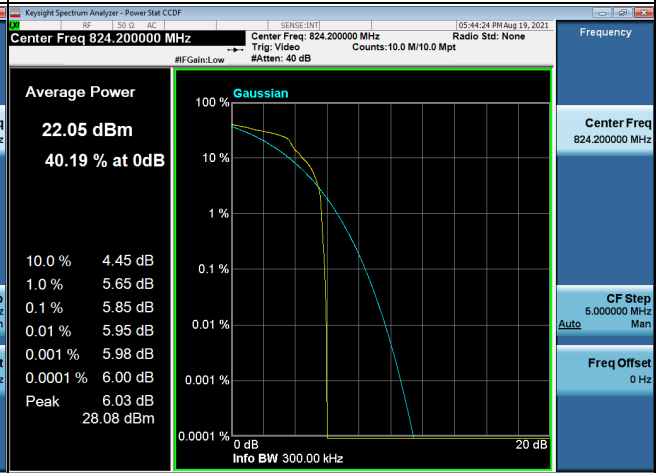
GSM-190



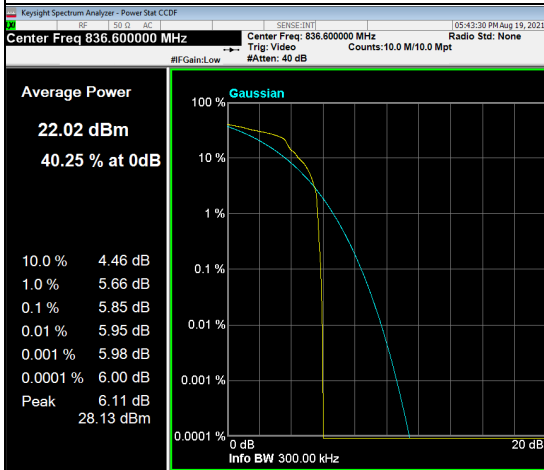
GSM-251



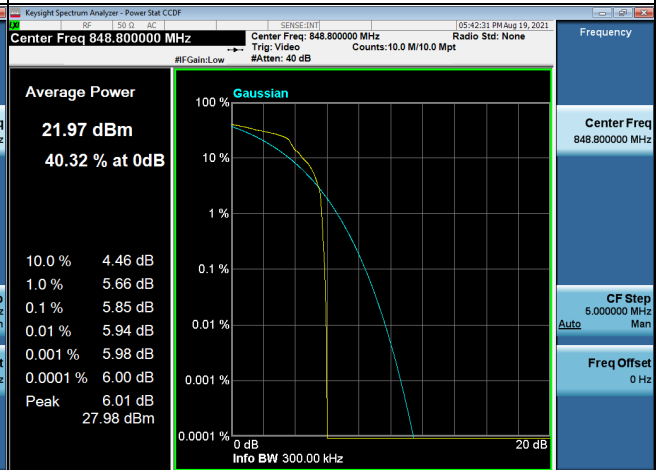
EDGE-128



EDGE-190



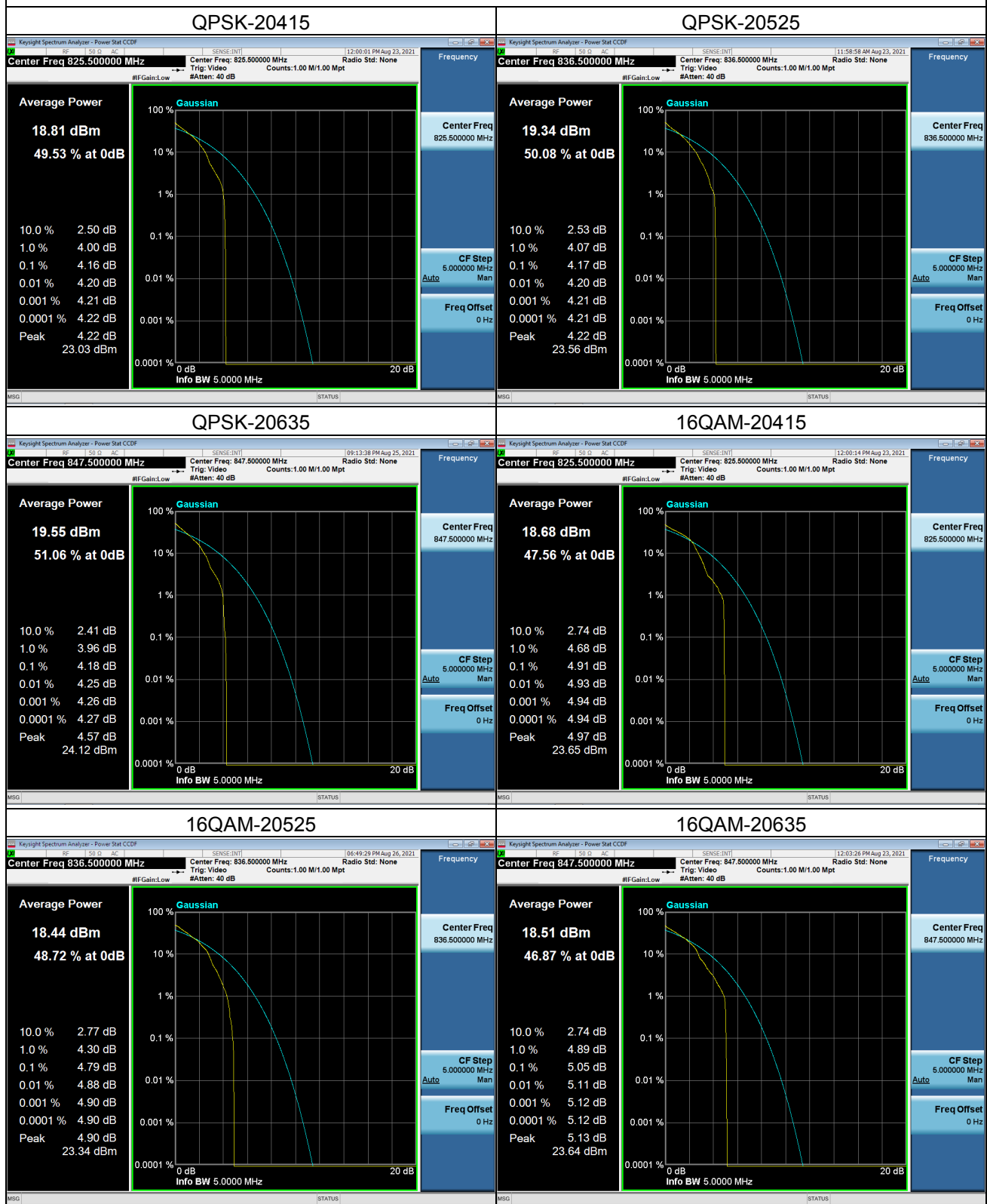
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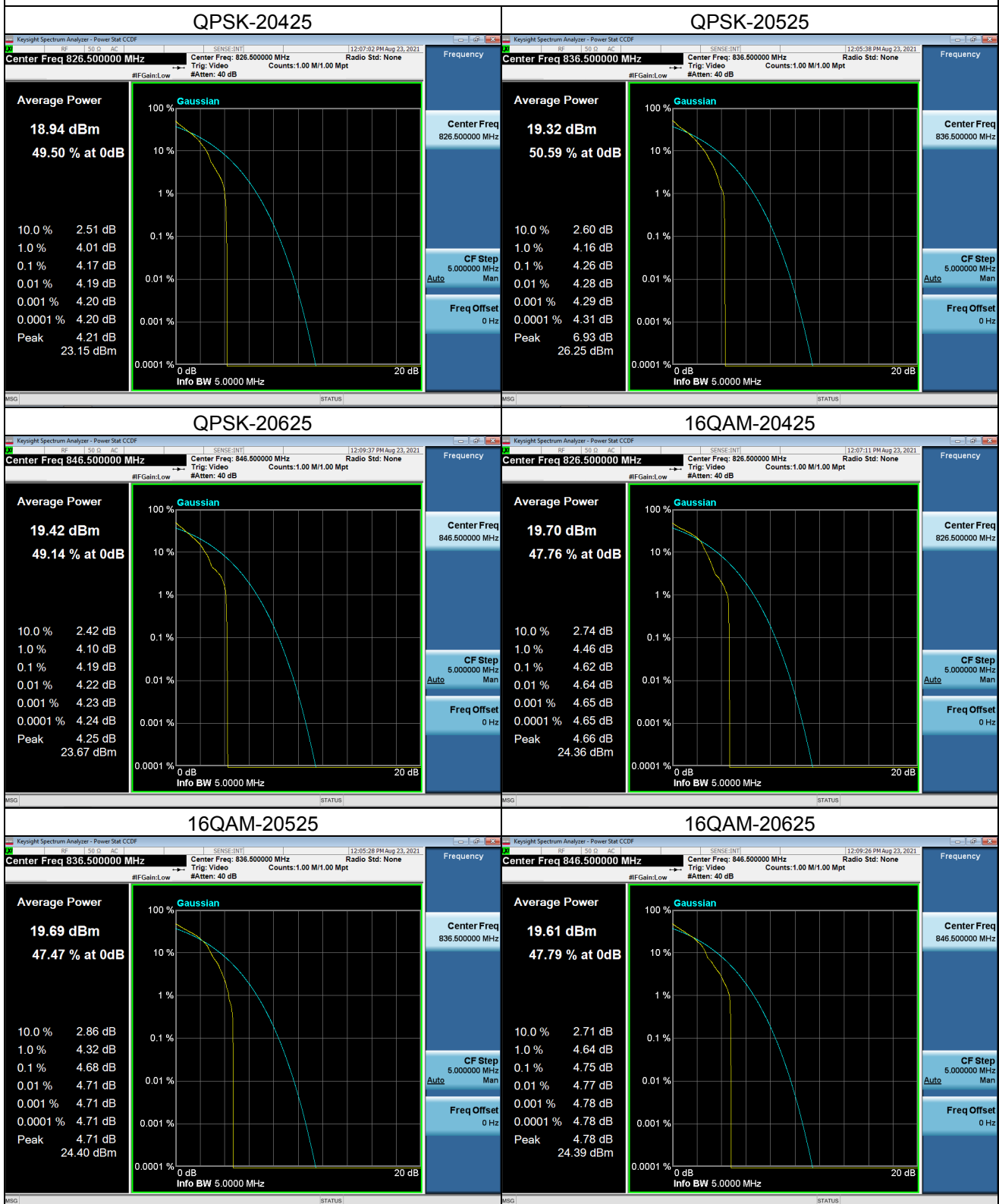
LTE Band 5_1.4M Spectrum Plot



LTE Band 5_3M Spectrum Plot



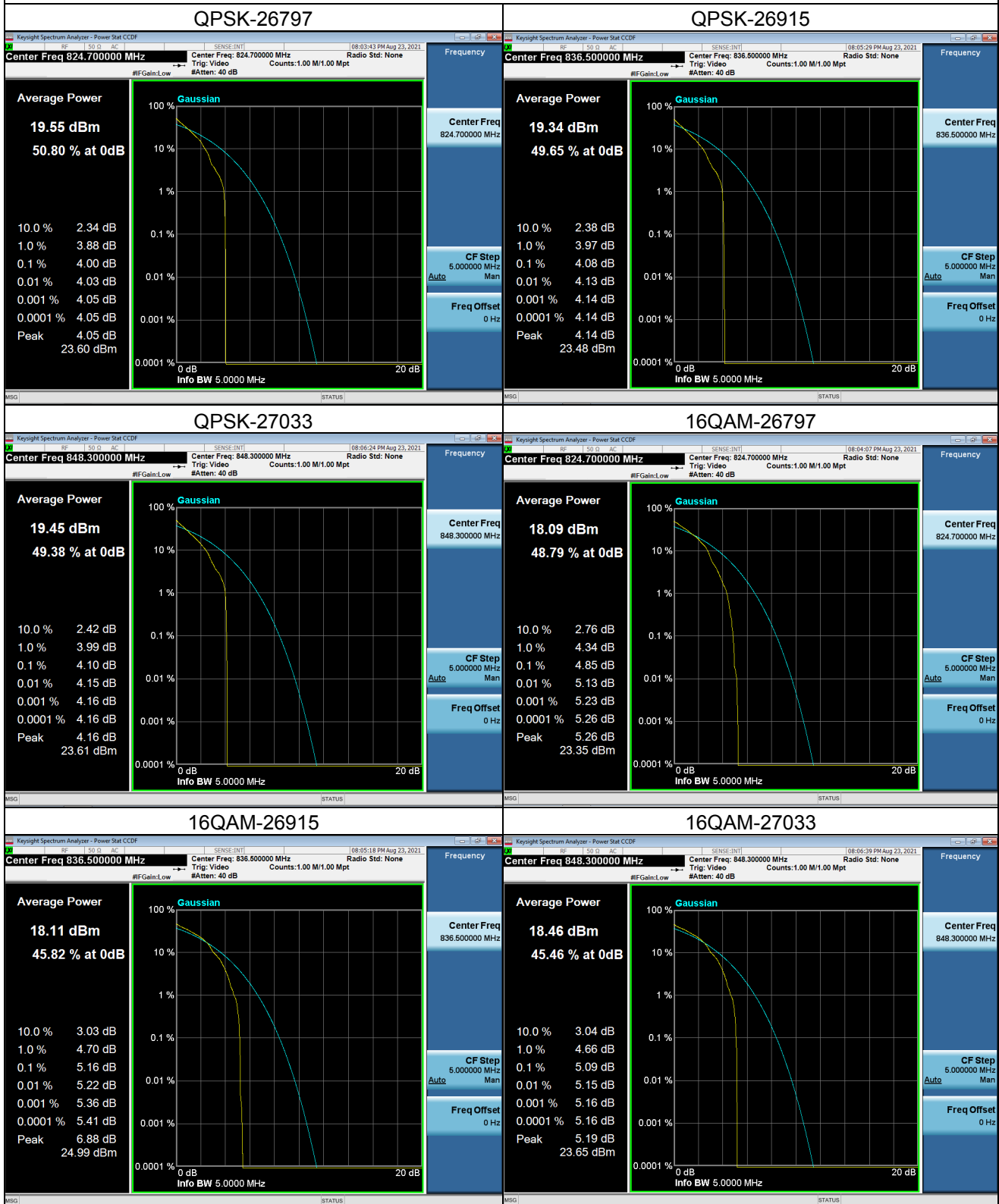
LTE Band 5_5M Spectrum Plot



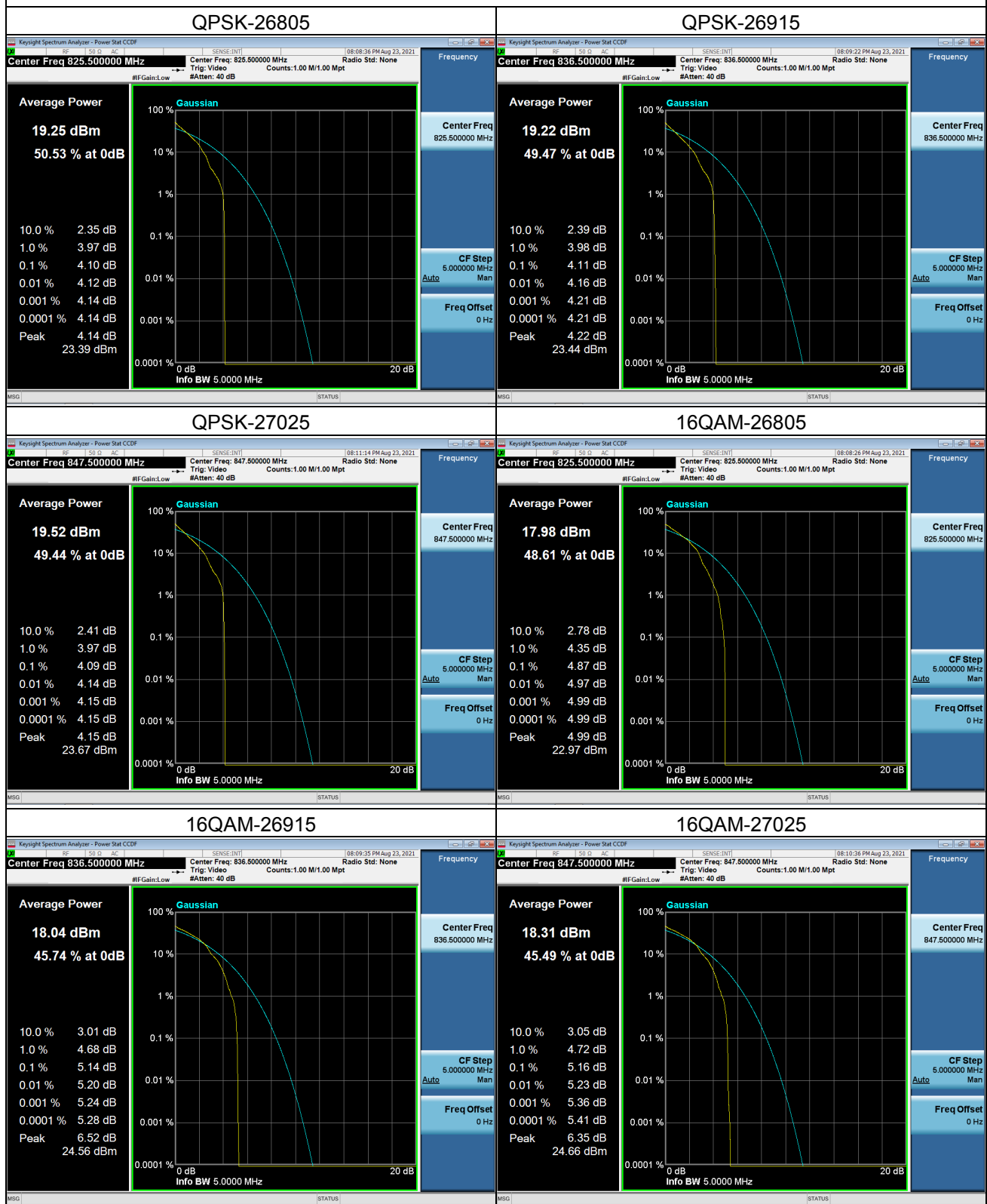
LTE Band 5_10M Spectrum Plot



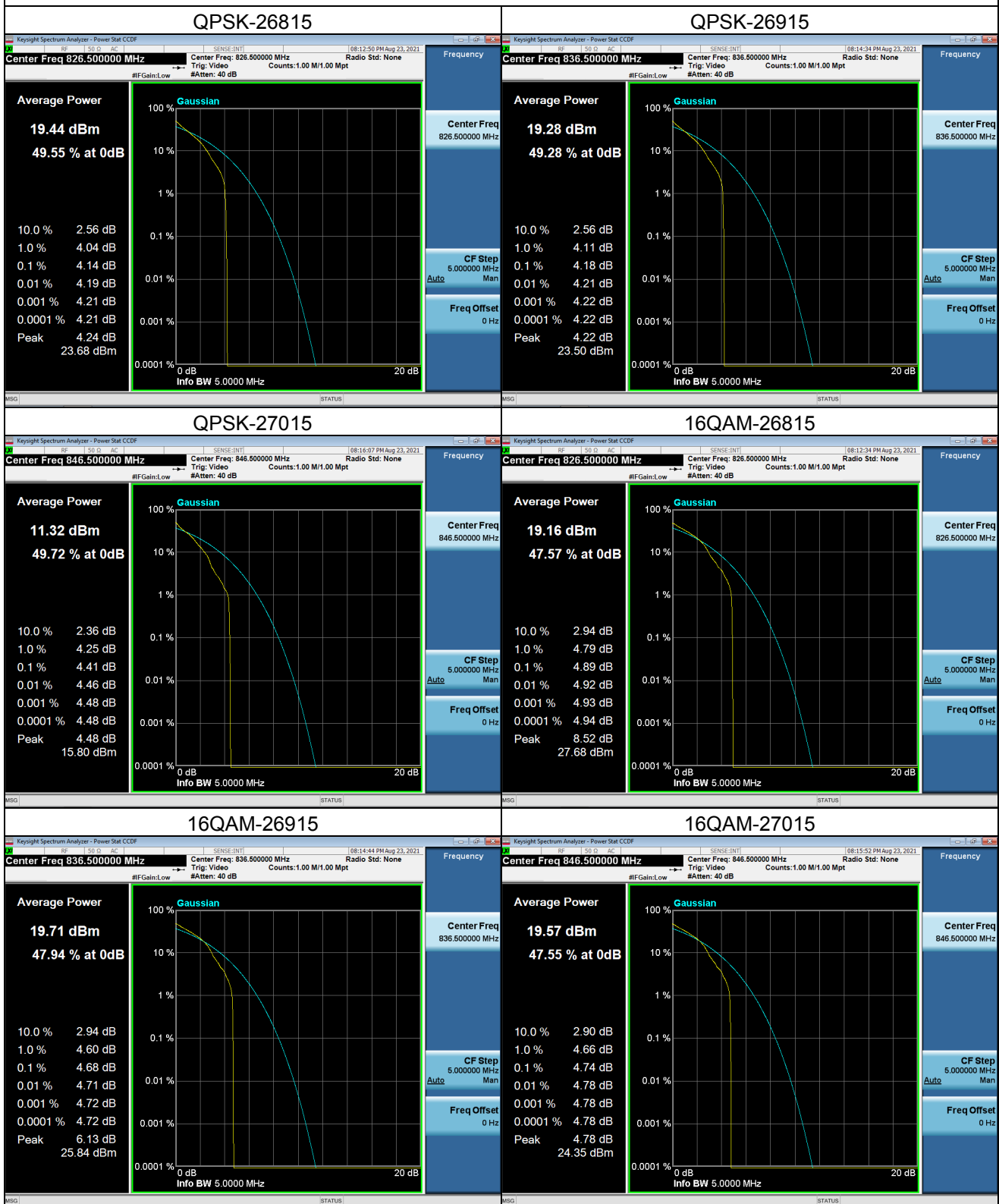
LTE Band 26_1.4M Spectrum Plot



LTE Band 26_3M Spectrum Plot

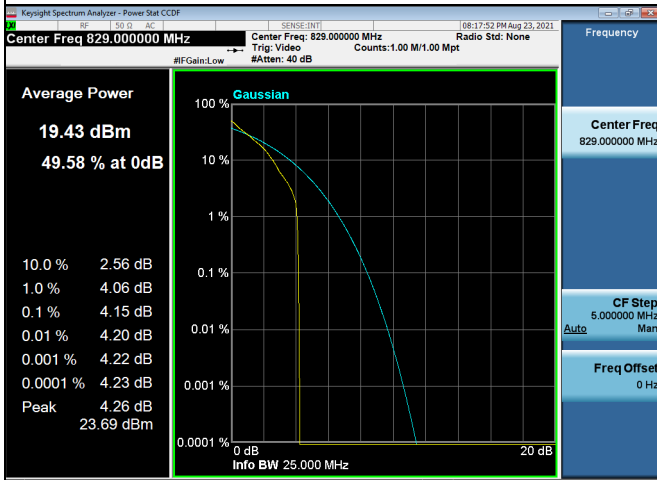


LTE Band 26_5M Spectrum Plot

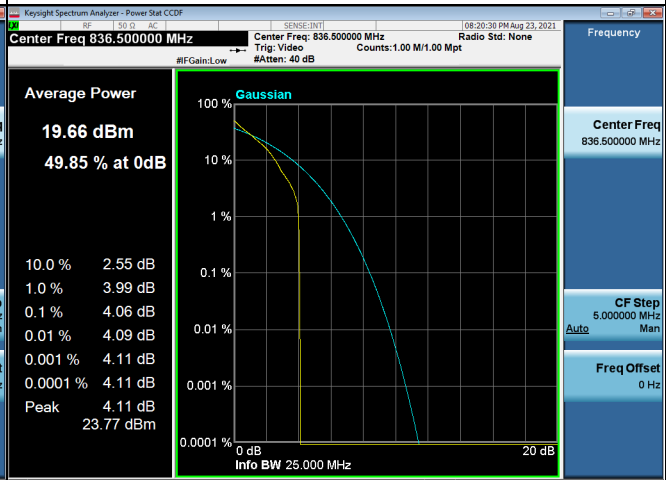


LTE Band 26_10M Spectrum Plot

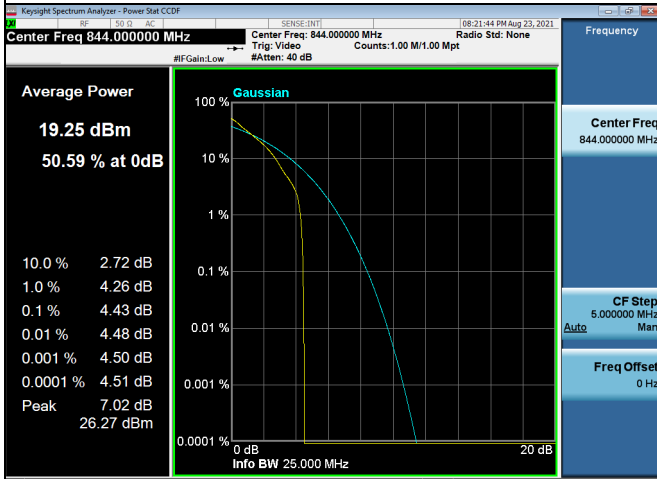
QPSK-26840



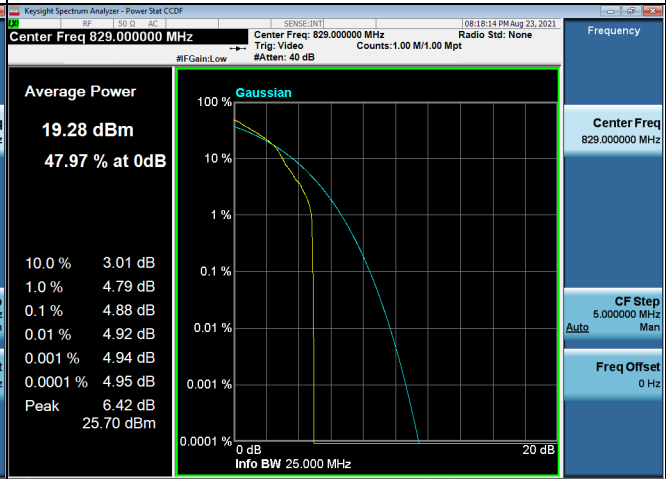
QPSK-26915



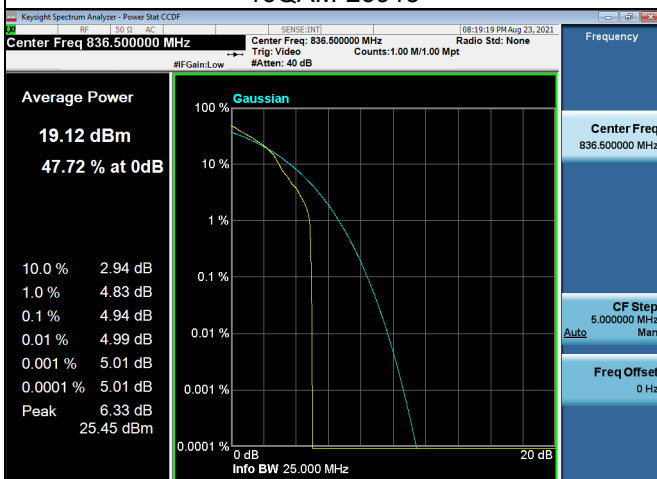
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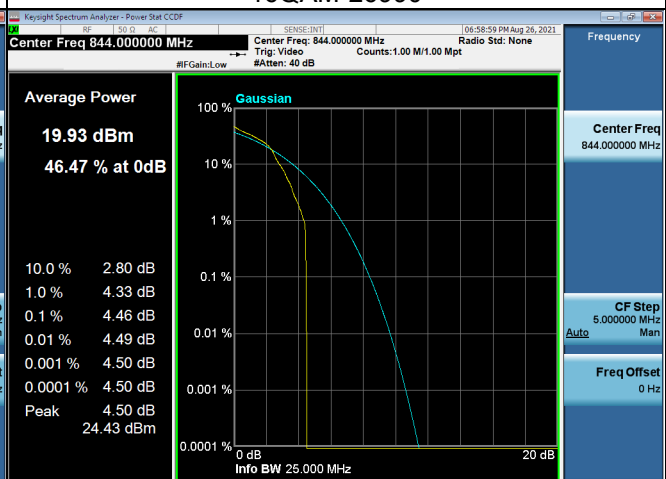
16QAM-26840



16QAM-26915

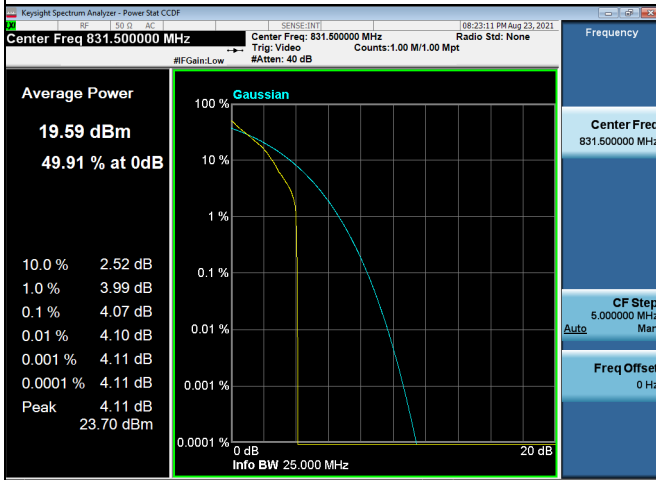


16QAM-26990

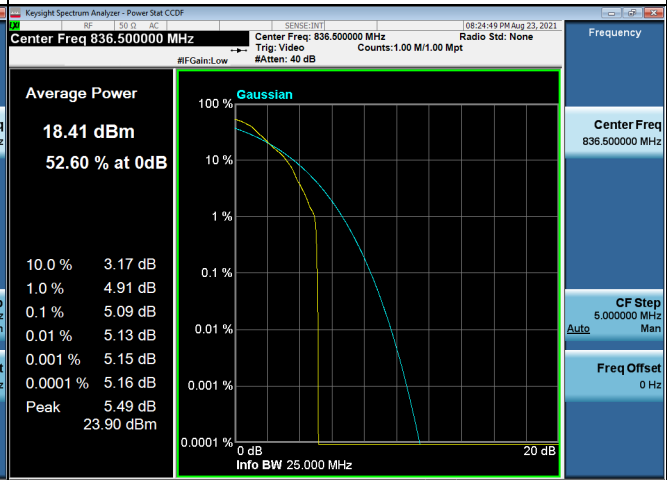


LTE Band 26_15M Spectrum Plot

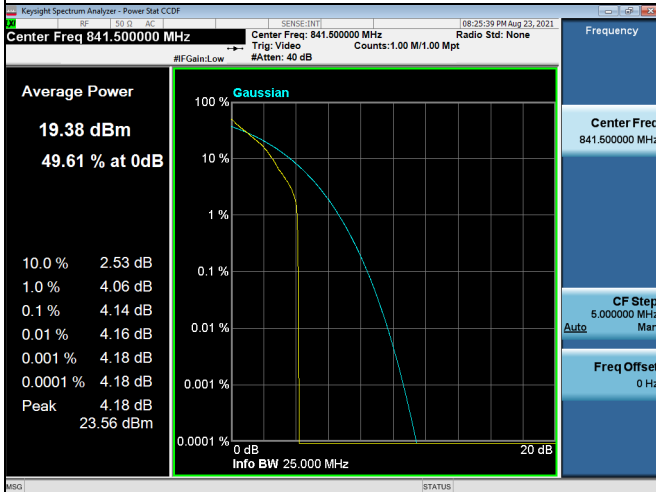
QPSK-26865



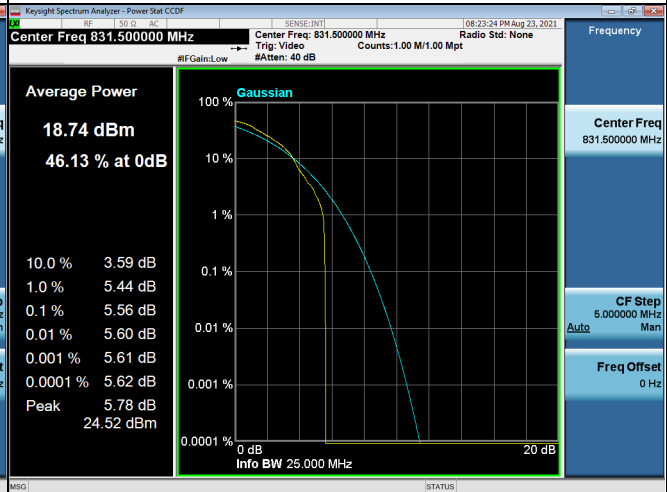
QPSK-26915



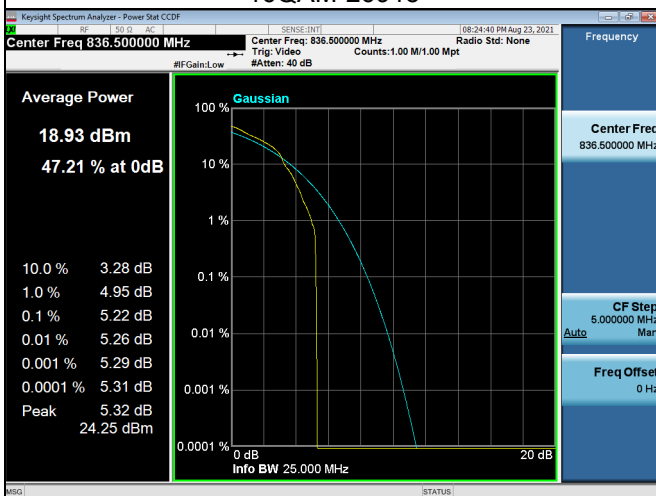
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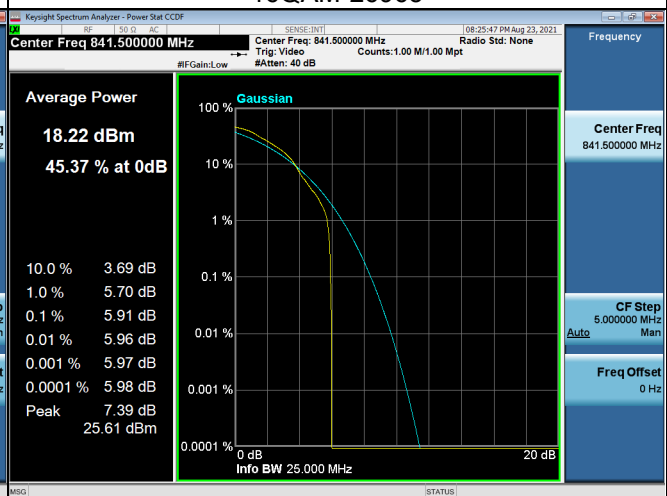
16QAM-26865



16QAM-26915



16QAM-26965



APPENDIX I - FREQUENCY STABILITY

| | |
|-----------|--------------|
| Test Mode | GSM850_CH190 |
|-----------|--------------|

Temperature vs. Frequency Stability

| Temperature(°C) | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -30 | 7.45 | 0.008905092 | ±2.5 |
| -20 | 9.42 | 0.011259861 | |
| -10 | 5.18 | 0.006191728 | |
| 0 | 5.75 | 0.006873058 | |
| 10 | 2.54 | 0.003036098 | |
| 20 | 6.07 | 0.007255558 | |
| 30 | 9.39 | 0.011224002 | |
| 40 | 6.59 | 0.007877122 | |
| 50 | 5.22 | 0.006239541 | |
| Max. Deviation (ppm) | 6.22 | 0.011259861 | |

Voltage vs. Frequency Stability

| Voltage(Volts) | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 3.8 | 1.86 | 0.002223285 | ±2.5 |
| 3.6 | 3.54 | 0.004231413 | |
| 2.0 | 7 | 0.008367201 | |
| Max. Deviation (ppm) | 7 | 0.008367201 | |

| | |
|-----------|-------------------------|
| Test Mode | LTE Band 5_CH20525_1.4M |
|-----------|-------------------------|

Temperature vs. Frequency Stability

| Temperature(°C) | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -30 | -2.97 | -0.003550508 | ±2.5 |
| -20 | 4.56 | 0.005451285 | |
| -10 | -0.40 | -0.000478183 | |
| 0 | 6.16 | 0.007364017 | |
| 10 | -2.42 | -0.002893007 | |
| 20 | 4.77 | 0.005702331 | |
| 30 | 1.01 | 0.001207412 | |
| 40 | 3.15 | 0.00376569 | |
| 50 | -1.35 | -0.001613867 | |
| Max. Deviation (ppm) | 6.16 | 0.007364017 | |

Voltage vs. Frequency Stability

| Voltage(Volts) | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 3.8 | 1.12 | 0.001338912 | ±2.5 |
| 3.6 | 9.09 | 0.010866707 | |
| 2.0 | 6.43 | 0.00768679 | |
| Max. Deviation (ppm) | 9.09 | 0.010866707 | |

| | |
|-----------|-----------------------|
| Test Mode | LTE Band 5_CH20525_3M |
|-----------|-----------------------|

Temperature vs. Frequency Stability

| Temperature(°C) | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -30 | -9.21 | -0.011010161 | ±2.5 |
| -20 | -8.84 | -0.010567842 | |
| -10 | 8.60 | 0.010280932 | |
| 0 | 7.91 | 0.009456067 | |
| 10 | -5.05 | -0.006037059 | |
| 20 | 0.60 | 0.000717274 | |
| 30 | -2.98 | -0.003562463 | |
| 40 | -6.71 | -0.008021518 | |
| 50 | 3.04 | 0.00363419 | |
| Max. Deviation (ppm) | -8.84 | -0.010567842 | |

Voltage vs. Frequency Stability

| Voltage(Volts) | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 3.8 | -2.56 | -0.003060371 | ±2.5 |
| 3.6 | -2.20 | -0.002630006 | |
| 2.0 | 2.86 | 0.003419008 | |
| Max. Deviation (ppm) | 2.86 | 0.003419008 | |

| | |
|-----------|-----------------------|
| Test Mode | LTE Band 5_CH20525_5M |
|-----------|-----------------------|

Temperature vs. Frequency Stability

| Temperature(°C) | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -30 | 2.56 | 0.003060371 | ±2.5 |
| -20 | 7.63 | 0.009121339 | |
| -10 | -0.25 | -0.000298864 | |
| 0 | -7.92 | -0.009468022 | |
| 10 | -4.94 | -0.005905559 | |
| 20 | 1.44 | 0.001721458 | |
| 30 | -8.51 | -0.010173341 | |
| 40 | -7.48 | -0.00894202 | |
| 50 | 5.51 | 0.00658697 | |
| Max. Deviation (ppm) | -8.51 | -0.010173341 | |

Voltage vs. Frequency Stability

| Voltage(Volts) | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 3.8 | 0.88 | 0.001052002 | ±2.5 |
| 3.6 | 9.58 | 0.011452481 | |
| 2.0 | -9.44 | -0.011285117 | |
| Max. Deviation (ppm) | 9.58 | 0.011452481 | |

| | |
|-----------|------------------------|
| Test Mode | LTE Band 5_CH20525_10M |
|-----------|------------------------|

Temperature vs. Frequency Stability

| Temperature(°C) | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -30 | -9.71 | -0.01160789 | ±2.5 |
| -20 | -1.08 | -0.001291094 | |
| -10 | 8.42 | 0.01006575 | |
| 0 | -4.56 | -0.005451285 | |
| 10 | -2.12 | -0.002534369 | |
| 20 | 6.29 | 0.007519426 | |
| 30 | 3.37 | 0.004028691 | |
| 40 | -2.23 | -0.00266587 | |
| 50 | -8.69 | -0.010388524 | |
| Max. Deviation (ppm) | -8.69 | -0.010388524 | |

Voltage vs. Frequency Stability

| Voltage(Volts) | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 3.8 | -0.67 | -0.000800956 | ±2.5 |
| 3.6 | 3.67 | 0.004387328 | |
| 2.0 | -2.23 | -0.00266587 | |
| Max. Deviation (ppm) | 3.67 | 0.004387328 | |

| | |
|-----------|--------------------------|
| Test Mode | LTE Band 26_CH26915_1.4M |
|-----------|--------------------------|

Temperature vs. Frequency Stability

| Temperature(°C) | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -30 | -6.87 | -0.008212791 | ±2.5 |
| -20 | 3.20 | 0.003825463 | |
| -10 | 8.36 | 0.009994023 | |
| 0 | 9.75 | 0.011655708 | |
| 10 | 2.81 | 0.003359235 | |
| 20 | 2.48 | 0.002964734 | |
| 30 | 2.73 | 0.003263598 | |
| 40 | -1.02 | -0.001219366 | |
| 50 | -3.83 | -0.004578601 | |
| Max. Deviation (ppm) | 9.75 | 0.011655708 | |

Voltage vs. Frequency Stability

| Voltage(Volts) | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 3.8 | -2.32 | -0.002773461 | ±2.5 |
| 3.6 | -6.11 | -0.007304244 | |
| 2.0 | -0.55 | -0.000657501 | |
| Max. Deviation (ppm) | -6.11 | -0.007304244 | |

| | |
|-----------|------------------------|
| Test Mode | LTE Band 26_CH26915_3M |
|-----------|------------------------|

Temperature vs. Frequency Stability

| Temperature(°C) | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -30 | 0.17 | 0.000203228 | ±2.5 |
| -20 | -4.31 | -0.005152421 | |
| -10 | 9.98 | 0.011930663 | |
| 0 | -7.69 | -0.009193066 | |
| 10 | 8.41 | 0.010053796 | |
| 20 | 0.40 | 0.000478183 | |
| 30 | -3.44 | -0.004112373 | |
| 40 | -5.09 | -0.006084877 | |
| 50 | -0.14 | -0.000167364 | |
| Max. Deviation (ppm) | 9.98 | 0.011930663 | |

Voltage vs. Frequency Stability

| Voltage(Volts) | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 3.8 | 0.33 | 0.000394501 | ±2.5 |
| 3.6 | 7.30 | 0.008726838 | |
| 2.0 | 7.12 | 0.008511656 | |
| Max. Deviation (ppm) | 7.3 | 0.008726838 | |

| | |
|-----------|------------------------|
| Test Mode | LTE Band 26_CH26915_5M |
|-----------|------------------------|

Temperature vs. Frequency Stability

| Temperature(°C) | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -30 | 0.21 | 0.000251046 | ±2.5 |
| -20 | -5.52 | -0.006598924 | |
| -10 | 3.13 | 0.003741781 | |
| 0 | 2.81 | 0.003359235 | |
| 10 | -2.89 | -0.003454871 | |
| 20 | 3.06 | 0.003658099 | |
| 30 | -7.97 | -0.009527794 | |
| 40 | -0.21 | -0.000251046 | |
| 50 | -2.00 | -0.002390915 | |
| Max. Deviation (ppm) | -7.97 | -0.009527794 | |

Voltage vs. Frequency Stability

| Voltage(Volts) | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 3.8 | -9.41 | -0.011249253 | ±2.5 |
| 3.6 | -2.59 | -0.003096234 | |
| 2.0 | -6.11 | -0.007304244 | |
| Max. Deviation (ppm) | -9.41 | -0.011249253 | |

| | |
|-----------|-------------------------|
| Test Mode | LTE Band 26_CH26915_10M |
|-----------|-------------------------|

Temperature vs. Frequency Stability

| Temperature(°C) | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -30 | -6.37 | -0.007615063 | ±2.5 |
| -20 | 4.63 | 0.005534967 | |
| -10 | -0.96 | -0.001147639 | |
| 0 | 9.56 | 0.011428571 | |
| 10 | 0.20 | 0.000239091 | |
| 20 | -2.30 | -0.002749552 | |
| 30 | 7.35 | 0.008786611 | |
| 40 | -6.12 | -0.007316198 | |
| 50 | -2.05 | -0.002450687 | |
| Max. Deviation (ppm) | 9.56 | 0.011428571 | |

Voltage vs. Frequency Stability

| Voltage(Volts) | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 3.8 | -3.73 | -0.004459056 | ±2.5 |
| 3.6 | -3.21 | -0.003837418 | |
| 2.0 | 2.22 | 0.002653915 | |
| Max. Deviation (ppm) | -3.73 | -0.004459056 | |

| | |
|-----------|-------------------------|
| Test Mode | LTE Band 26_CH26915_15M |
|-----------|-------------------------|

Temperature vs. Frequency Stability

| Temperature(°C) | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| -30 | 4.90 | 0.005857741 | ±2.5 |
| -20 | -7.00 | -0.008368201 | |
| -10 | -9.77 | -0.011679617 | |
| 0 | -8.76 | -0.010472206 | |
| 10 | -3.22 | -0.003849372 | |
| 20 | 4.21 | 0.005032875 | |
| 30 | -7.93 | -0.009479976 | |
| 40 | 4.87 | 0.005821877 | |
| 50 | -3.59 | -0.004291692 | |
| Max. Deviation (ppm) | -9.77 | -0.011679617 | |

Voltage vs. Frequency Stability

| Voltage(Volts) | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 3.8 | -3.18 | -0.003801554 | ±2.5 |
| 3.6 | 5.10 | 0.006096832 | |
| 2.0 | 1.51 | 0.00180514 | |
| Max. Deviation (ppm) | 5.1 | 0.006096832 | |

End of Test Report