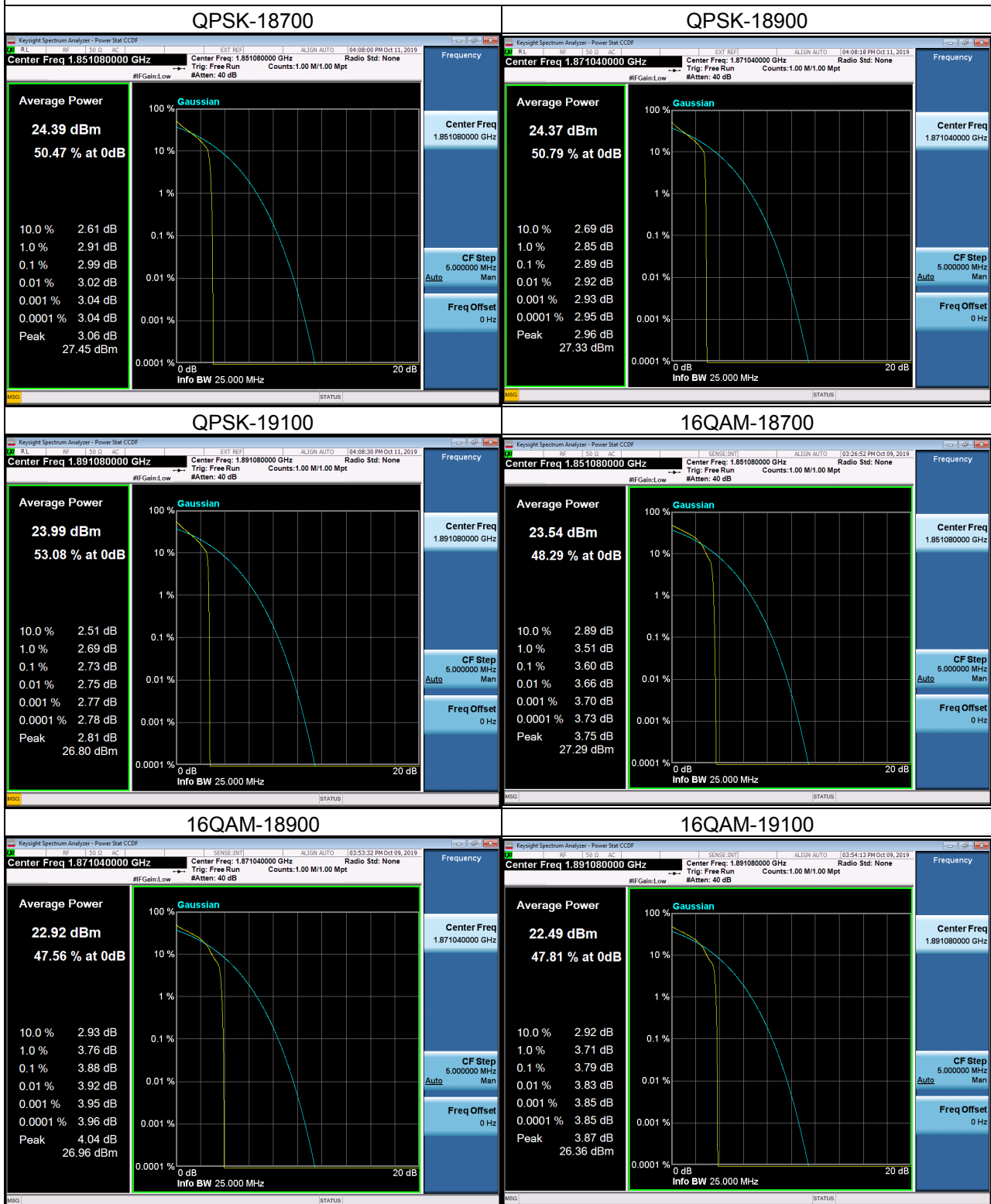


## LTE Band 2\_15M Spectrum Plot



## LTE Band 2\_20M Spectrum Plot



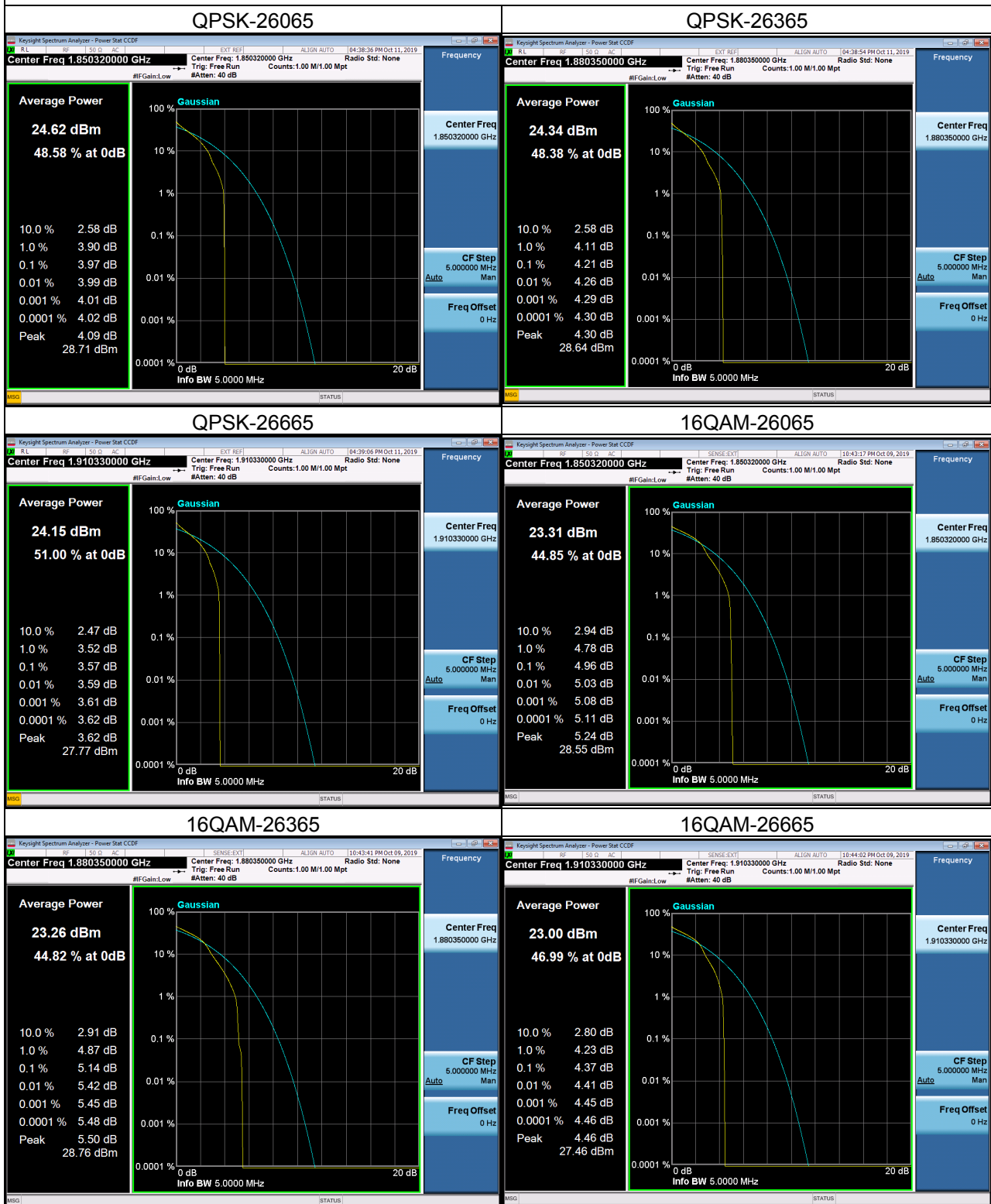
## LTE Band 25\_1.4M Spectrum Plot



## LTE Band 25\_3M Spectrum Plot



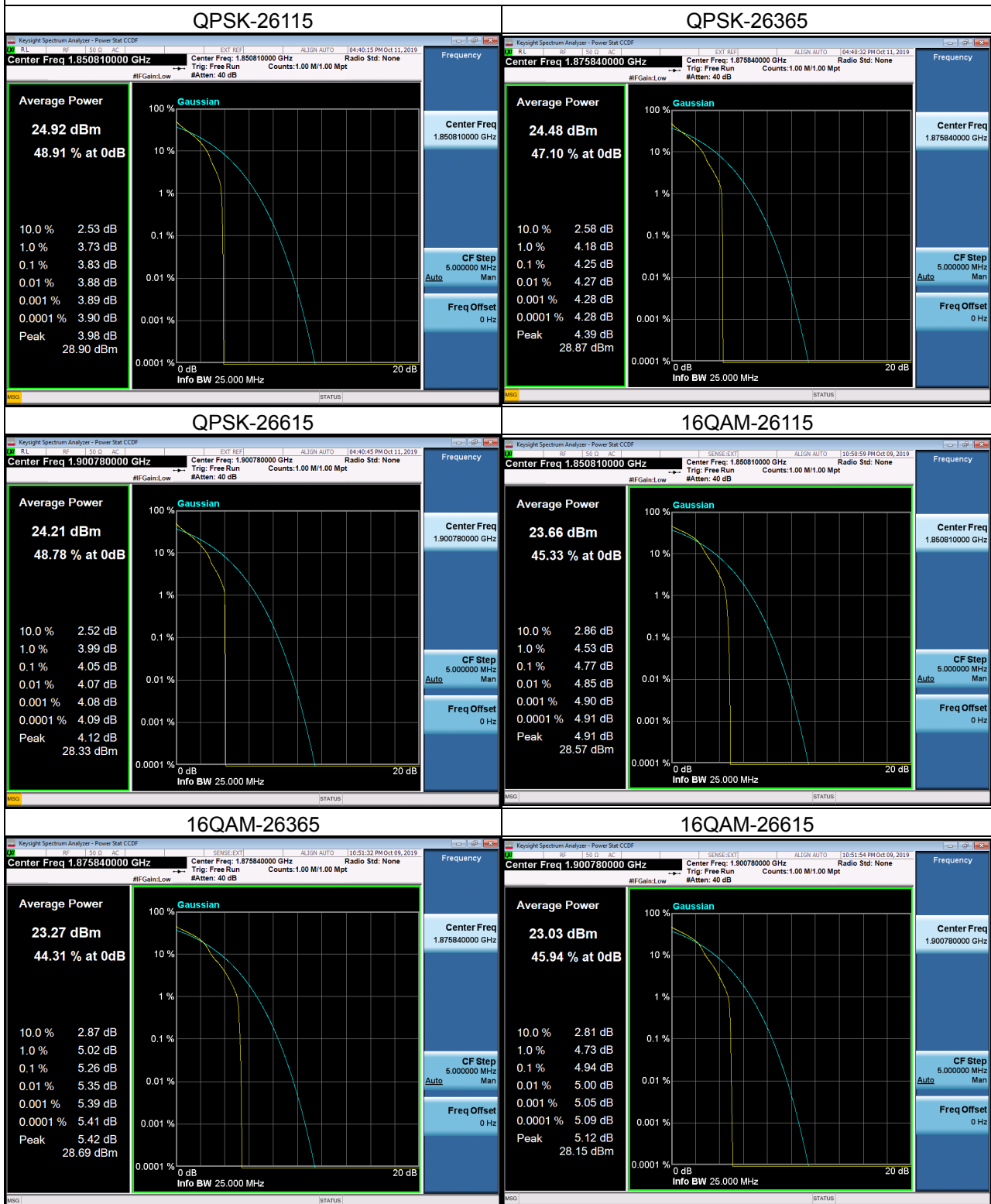
## LTE Band 25\_5M Spectrum Plot



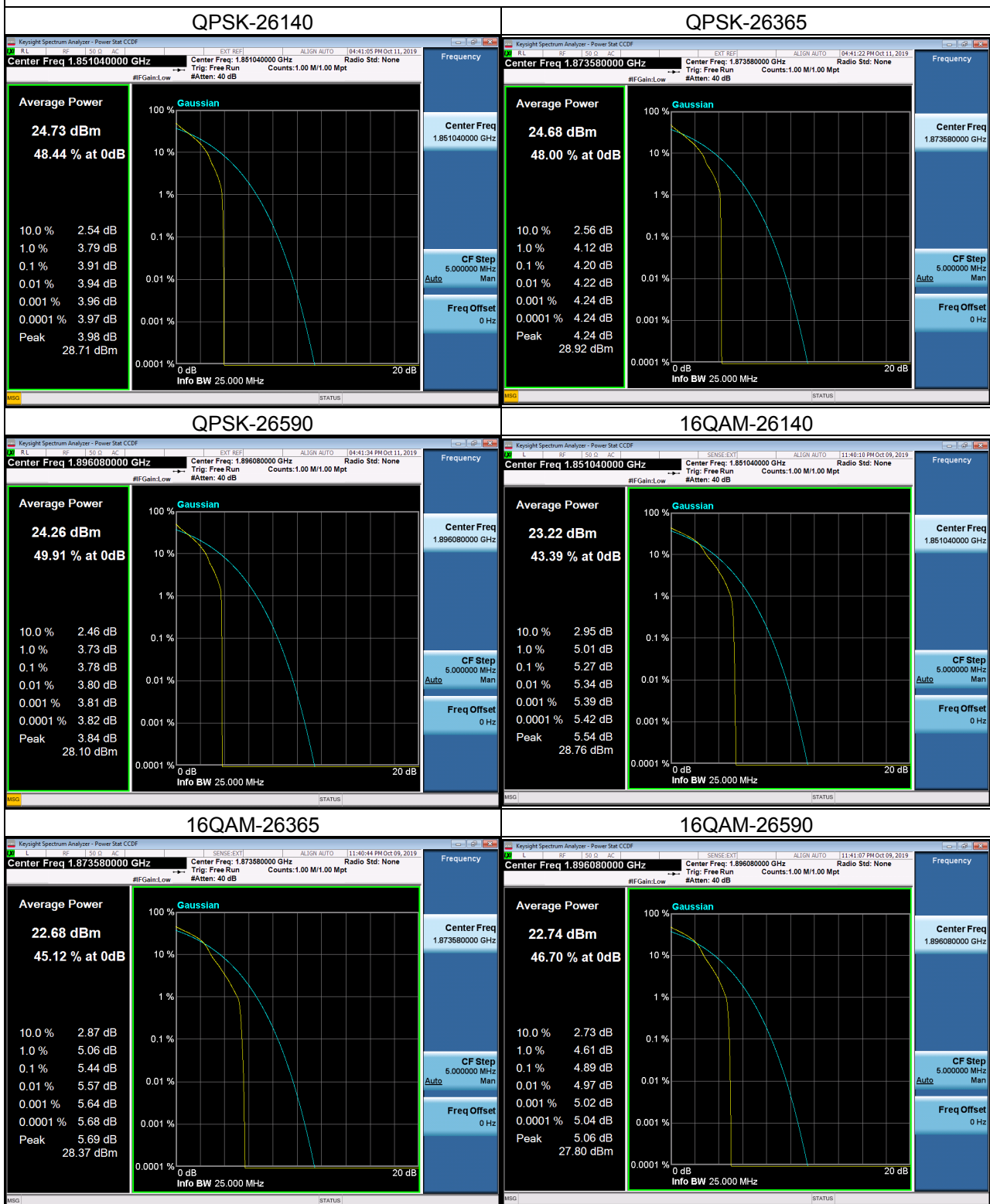
## LTE Band 25\_10M Spectrum Plot



## LTE Band 25\_15M Spectrum Plot



## LTE Band 25\_20M Spectrum Plot



## **APPENDIX I - FREQUENCY STABILITY**

|           |                         |
|-----------|-------------------------|
| Test Mode | LTE Band 2_CH18900_1.4M |
|-----------|-------------------------|

#### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 0                    | 1.83                 | 0.000973404           | ±2.5       |
| 10                   | -3.04                | -0.001617021          |            |
| 20                   | -0.21                | -0.000111702          |            |
| 30                   | 4.81                 | 0.002558511           |            |
| 40                   | 1.00                 | 0.000531915           |            |
| 45                   | 4.10                 | 0.002180851           |            |
| Max. Deviation (ppm) | 4.81                 | 0.002558511           |            |

#### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 4.35                 | 3.48                 | 0.001851064           | ±2.5       |
| 3.8                  | 1.40                 | 0.000744681           |            |
| 3.5                  | 2.41                 | 0.001281915           |            |
| Max. Deviation (ppm) | 3.48                 | 0.001851064           |            |

|           |                       |
|-----------|-----------------------|
| Test Mode | LTE Band 2_CH18900_3M |
|-----------|-----------------------|

#### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 0                    | 5.48                 | 0.002914894           | ± 2.5      |
| 10                   | 0.28                 | 0.000148936           |            |
| 20                   | -3.68                | -0.001957447          |            |
| 30                   | -4.91                | -0.002611702          |            |
| 40                   | 0.83                 | 0.000441489           |            |
| 45                   | -0.76                | -0.000404255          |            |
| Max. Deviation (ppm) | 5.48                 | 0.002914894           |            |

#### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 4.35                 | 3.69                 | 0.001962766           | ± 2.5      |
| 3.8                  | 2.01                 | 0.001069149           |            |
| 3.5                  | 3.43                 | 0.001824468           |            |
| Max. Deviation (ppm) | 3.69                 | 0.001962766           |            |

|           |                       |
|-----------|-----------------------|
| Test Mode | LTE Band 2_CH18900_5M |
|-----------|-----------------------|

#### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 0                    | 3.03                 | 0.001611702           | ±2.5       |
| 10                   | 3.17                 | 0.00168617            |            |
| 20                   | 5.21                 | 0.002771277           |            |
| 30                   | -0.30                | -0.000159574          |            |
| 40                   | 6.84                 | 0.003638298           |            |
| 45                   | 5.82                 | 0.003095745           |            |
| Max. Deviation (ppm) | 6.84                 | 0.003638298           |            |

#### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 4.35                 | -3.53                | -0.00187766           | ±2.5       |
| 3.8                  | -1.92                | -0.001021277          |            |
| 3.5                  | 2.08                 | 0.001106383           |            |
| Max. Deviation (ppm) | -3.53                | -0.00187766           |            |

|           |                        |
|-----------|------------------------|
| Test Mode | LTE Band 2_CH18900_10M |
|-----------|------------------------|

#### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 0                    | 5.47                 | 0.002909574           | ± 2.5      |
| 10                   | 6.32                 | 0.003361702           |            |
| 20                   | 2.75                 | 0.001462766           |            |
| 30                   | -3.32                | -0.001765957          |            |
| 40                   | 6.91                 | 0.003675532           |            |
| 45                   | 4.03                 | 0.002143617           |            |
| Max. Deviation (ppm) | 6.91                 | 0.003675532           |            |

#### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 4.35                 | 4.81                 | 0.002558511           | ± 2.5      |
| 3.8                  | -2.84                | -0.001510638          |            |
| 3.5                  | -1.65                | -0.00087766           |            |
| Max. Deviation (ppm) | 4.81                 | 0.002558511           |            |

|           |                        |
|-----------|------------------------|
| Test Mode | LTE Band 2_CH18900_15M |
|-----------|------------------------|

#### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 0                    | 3.75                 | 0.001994681           | ±2.5       |
| 10                   | 6.08                 | 0.003234043           |            |
| 20                   | 5.93                 | 0.003154255           |            |
| 30                   | 2.15                 | 0.001143617           |            |
| 40                   | -5.11                | -0.002718085          |            |
| 45                   | -6.02                | -0.003202128          |            |
| Max. Deviation (ppm) | 6.08                 | 0.003234043           |            |

#### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 4.35                 | 2.67                 | 0.001420213           | ±2.5       |
| 3.8                  | 2.01                 | 0.001069149           |            |
| 3.5                  | -0.69                | -0.000367021          |            |
| Max. Deviation (ppm) | 2.67                 | 0.001420213           |            |

|           |                        |
|-----------|------------------------|
| Test Mode | LTE Band 2_CH18900_20M |
|-----------|------------------------|

#### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 0                    | -7.12                | -0.003787234          | ± 2.5      |
| 10                   | -2.89                | -0.001537234          |            |
| 20                   | 0.22                 | 0.000117021           |            |
| 30                   | -5.84                | -0.003106383          |            |
| 40                   | 2.10                 | 0.001117021           |            |
| 45                   | -0.49                | -0.000260638          |            |
| Max. Deviation (ppm) | -7.12                | -0.003787234          |            |

#### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 4.35                 | 2.75                 | 0.001462766           | ± 2.5      |
| 3.8                  | -2.95                | -0.001569149          |            |
| 3.5                  | 1.09                 | 0.000579787           |            |
| Max. Deviation (ppm) | -2.95                | -0.001569149          |            |

|           |                          |
|-----------|--------------------------|
| Test Mode | LTE Band 25_CH26365_1.4M |
|-----------|--------------------------|

#### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 0                    | 2.85                 | 0.001513944           | ± 2.5      |
| 10                   | 7.44                 | 0.003952191           |            |
| 20                   | 1.27                 | 0.000674635           |            |
| 30                   | 3.25                 | 0.001726428           |            |
| 40                   | -1.93                | 0.001025232           |            |
| 45                   | -2.51                | 0.001333333           |            |
| Max. Deviation (ppm) | 7.44                 | 0.003952191           |            |

#### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 4.35                 | 1.69                 | 0.000897742           | ± 2.5      |
| 3.8                  | 2.92                 | 0.001551129           |            |
| 3.5                  | -5.29                | 0.002810093           |            |
| Max. Deviation (ppm) | -5.29                | 0.002810093           |            |

|           |                        |
|-----------|------------------------|
| Test Mode | LTE Band 25_CH26365_3M |
|-----------|------------------------|

#### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 0                    | 3.29                 | 0.001747676           | ± 2.5      |
| 10                   | 6.82                 | 0.003622842           |            |
| 20                   | 6.46                 | 0.003431607           |            |
| 30                   | 1.14                 | 0.000605578           |            |
| 40                   | 3.55                 | 0.00188579            |            |
| 45                   | -1.44                | 0.00076494            |            |
| Max. Deviation (ppm) | 6.82                 | 0.003622842           |            |

#### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 4.35                 | -0.85                | 0.000451527           | ± 2.5      |
| 3.8                  | 4.19                 | 0.002225764           |            |
| 3.5                  | -0.71                | 0.000377158           |            |
| Max. Deviation (ppm) | 4.19                 | 0.002225764           |            |

|           |                        |
|-----------|------------------------|
| Test Mode | LTE Band 25_CH26365_5M |
|-----------|------------------------|

#### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 0                    | -3.36                | -0.001784861          | ± 2.5      |
| 10                   | 6.39                 | 0.003394422           |            |
| 20                   | 1.69                 | 0.000897742           |            |
| 30                   | -3.33                | -0.001768924          |            |
| 40                   | 5.99                 | 0.003181939           |            |
| 45                   | -0.51                | -0.000270916          |            |
| Max. Deviation (ppm) | 6.39                 | 0.003394422           |            |

#### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 4.35                 | -3.54                | -0.001880478          | ± 2.5      |
| 3.8                  | 5.22                 | 0.002772908           |            |
| 3.5                  | 1.62                 | 0.000860558           |            |
| Max. Deviation (ppm) | 5.22                 | 0.002772908           |            |

|           |                         |
|-----------|-------------------------|
| Test Mode | LTE Band 25_CH26365_10M |
|-----------|-------------------------|

#### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 0                    | -1.38                | -0.000733068          | ± 2.5      |
| 10                   | -0.59                | -0.000313413          |            |
| 20                   | 3.81                 | 0.002023904           |            |
| 30                   | 4.63                 | 0.002459495           |            |
| 40                   | 4.86                 | 0.002581673           |            |
| 45                   | -4.21                | -0.002236388          |            |
| Max. Deviation (ppm) | 4.86                 | 0.002581673           |            |

#### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 4.35                 | 4.72                 | 0.002507304           | ± 2.5      |
| 3.8                  | 2.81                 | 0.001492696           |            |
| 3.5                  | 5.47                 | 0.00290571            |            |
| Max. Deviation (ppm) | 5.47                 | 0.00290571            |            |

|           |                         |
|-----------|-------------------------|
| Test Mode | LTE Band 25_CH26365_15M |
|-----------|-------------------------|

#### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 0                    | 5.49                 | 0.002916335           | ± 2.5      |
| 10                   | -0.68                | -0.000361222          |            |
| 20                   | 5.08                 | 0.002698539           |            |
| 30                   | 5.08                 | 0.002698539           |            |
| 40                   | 3.26                 | 0.00173174            |            |
| 45                   | -4.72                | -0.002507304          |            |
| Max. Deviation (ppm) | 5.49                 | 0.002916335           |            |

#### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 4.35                 | 2.77                 | 0.001471448           | ± 2.5      |
| 3.8                  | -4.34                | -0.002305445          |            |
| 3.5                  | -1.18                | -0.000626826          |            |
| Max. Deviation (ppm) | -4.34                | -0.002305445          |            |

|           |                         |
|-----------|-------------------------|
| Test Mode | LTE Band 25_CH26365_20M |
|-----------|-------------------------|

#### Temperature vs. Frequency Stability

| Temperature(°C)      | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 0                    | 4.57                 | 0.002427623           | ± 2.5      |
| 10                   | 2.26                 | 0.001200531           |            |
| 20                   | 2.32                 | 0.001232404           |            |
| 30                   | 5.74                 | 0.003049137           |            |
| 40                   | -5.99                | -0.003181939          |            |
| 45                   | 4.71                 | 0.002501992           |            |
| Max. Deviation (ppm) | -5.99                | -0.003181939          |            |

#### Voltage vs. Frequency Stability

| Voltage(Volts)       | Frequency Error (Hz) | Frequency Error (ppm) | Limit(ppm) |
|----------------------|----------------------|-----------------------|------------|
| 4.35                 | -2.58                | -0.001370518          | ± 2.5      |
| 3.8                  | 1.82                 | 0.000966799           |            |
| 3.5                  | -2.65                | -0.001407703          |            |
| Max. Deviation (ppm) | -2.65                | -0.001407703          |            |

End of Test Report