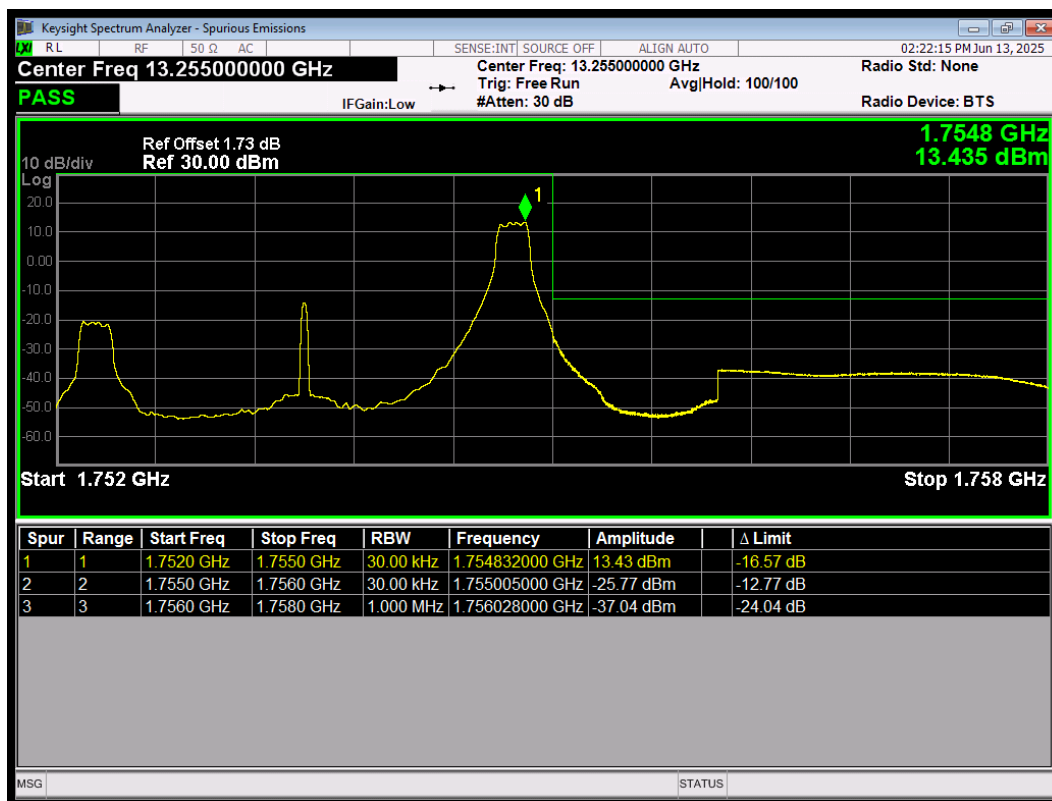
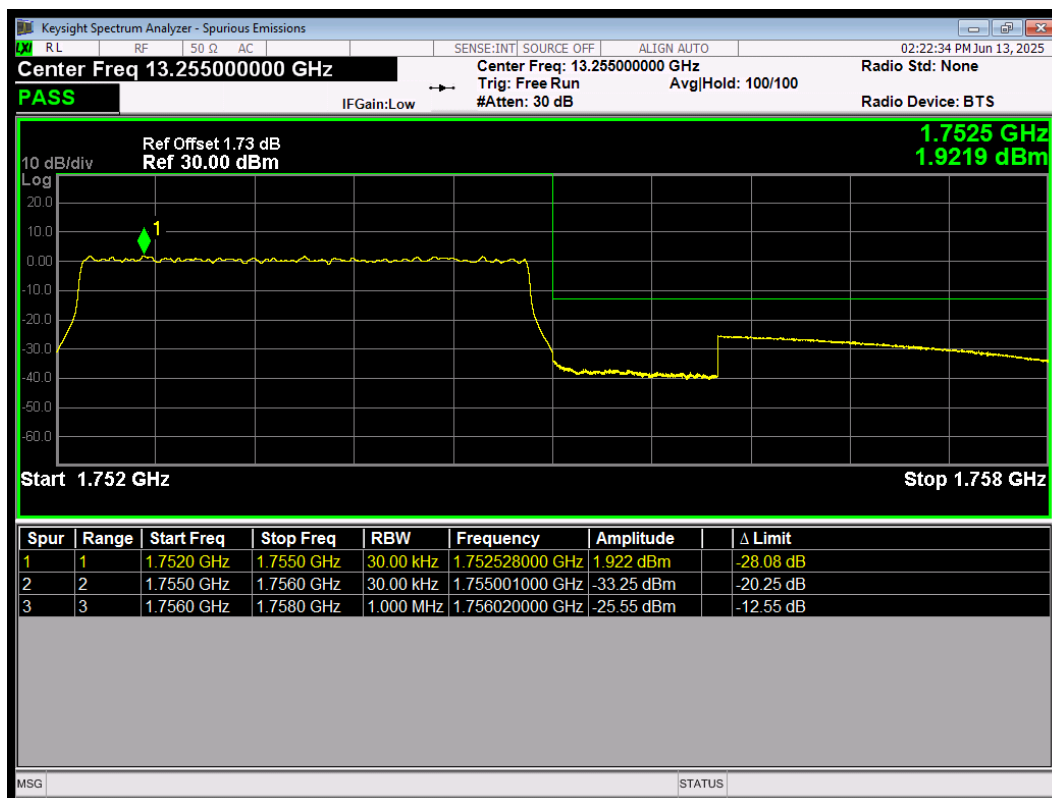
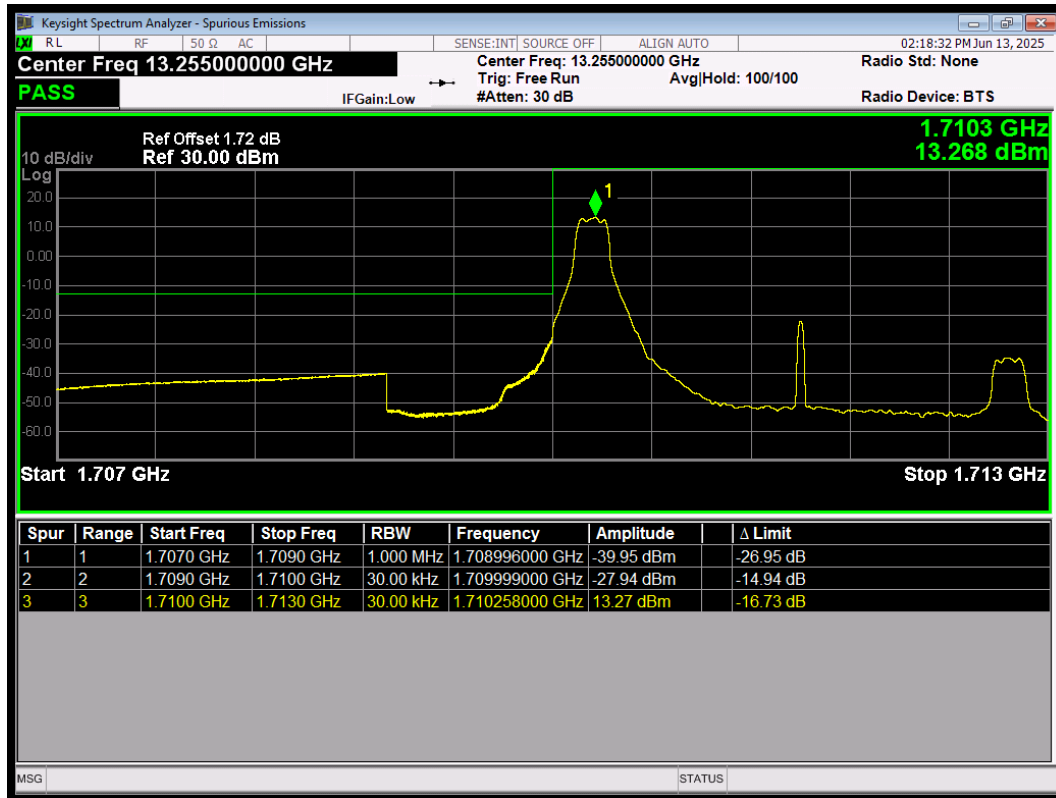




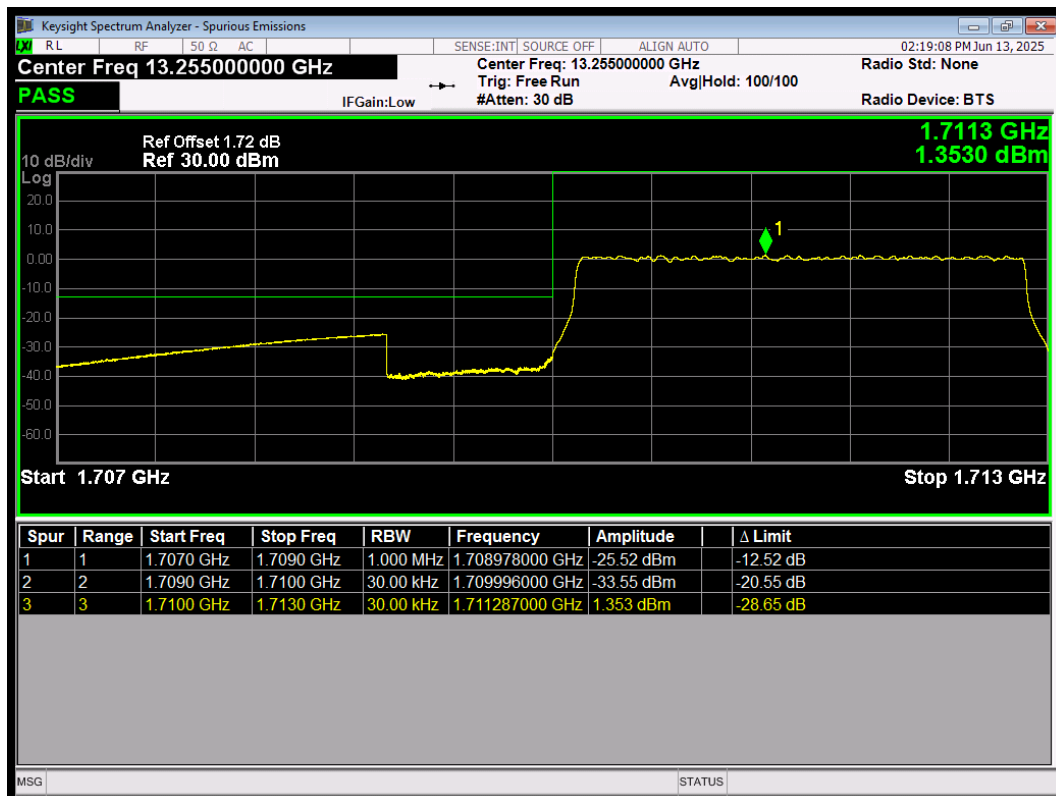
LTE Band 4 Band edge 64QAM BW=3MHz High Channel=20385 RB Size=1 Position=#Max



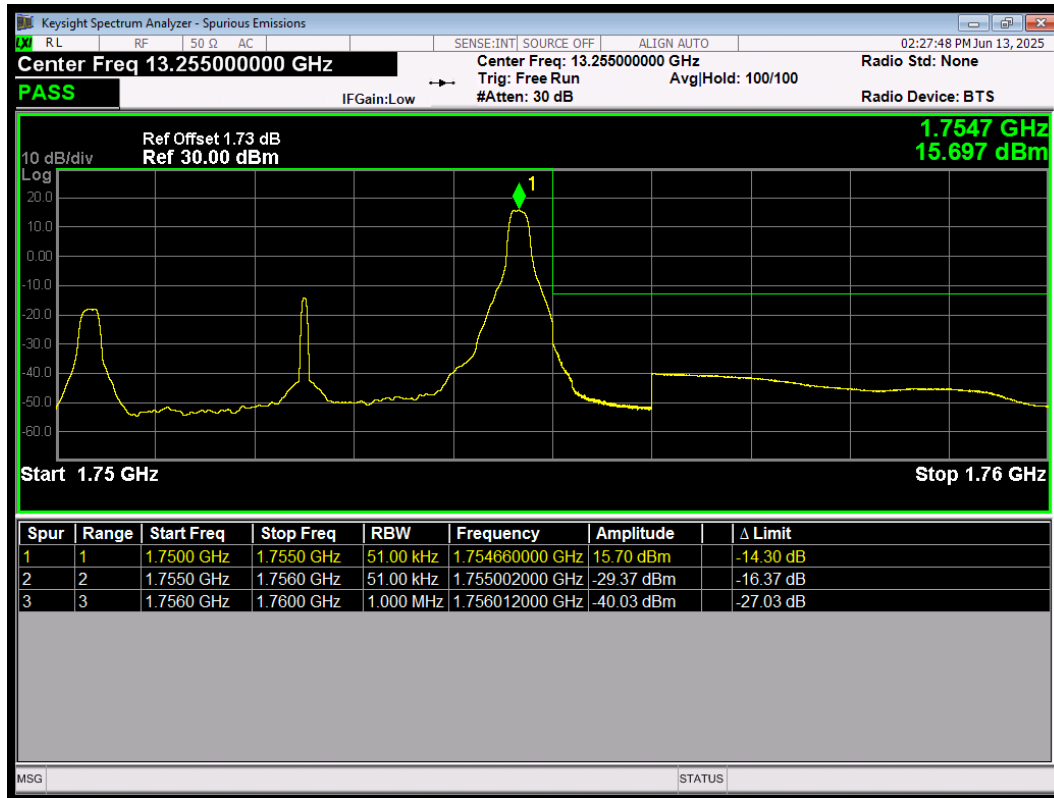
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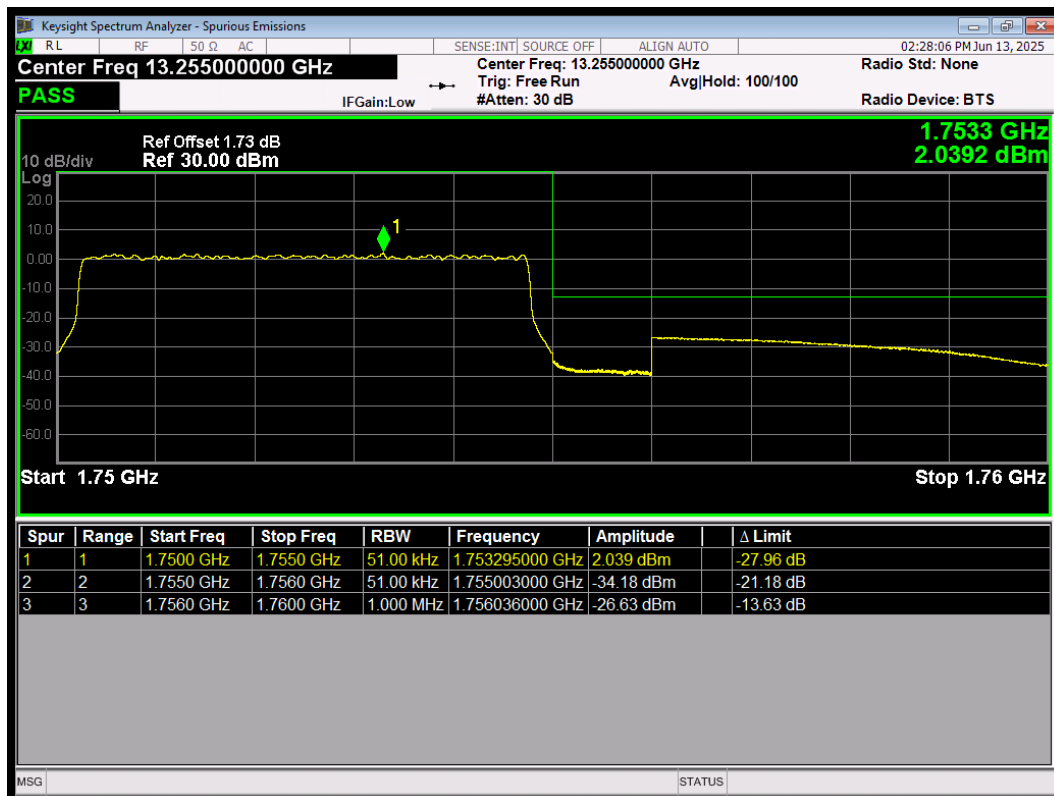
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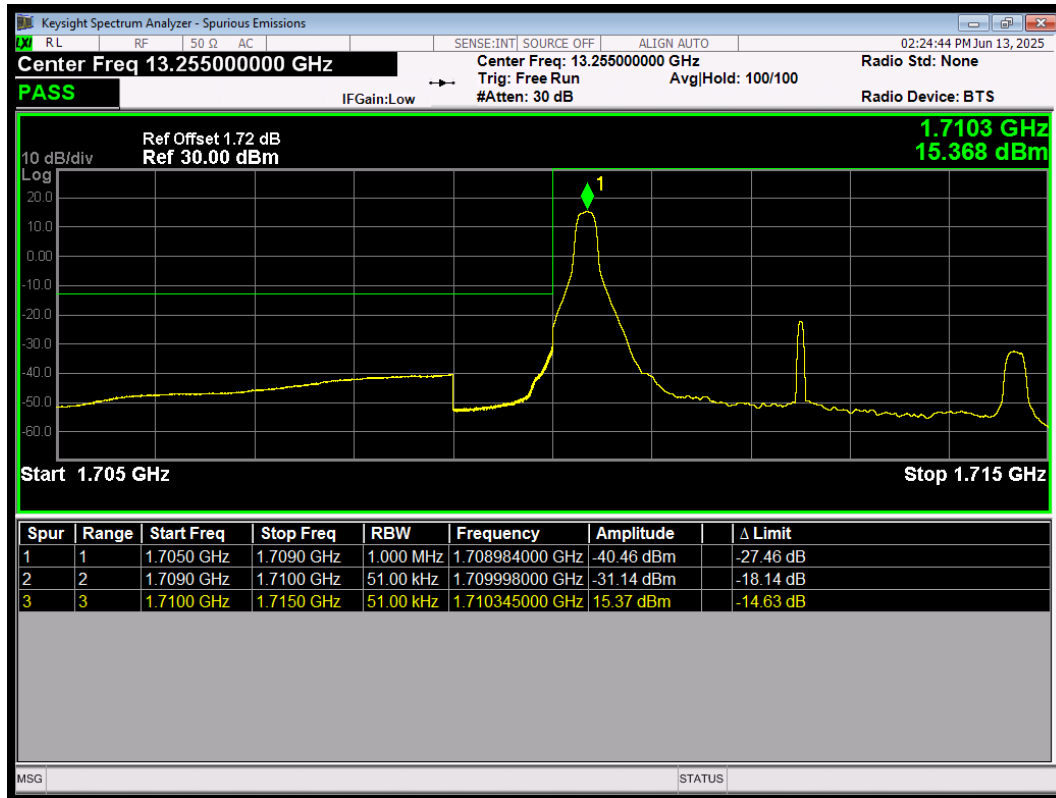
LTE Band 4 Band edge 64QAM BW=3MHz Low Channel=19965 RB Size=15 Position=#0



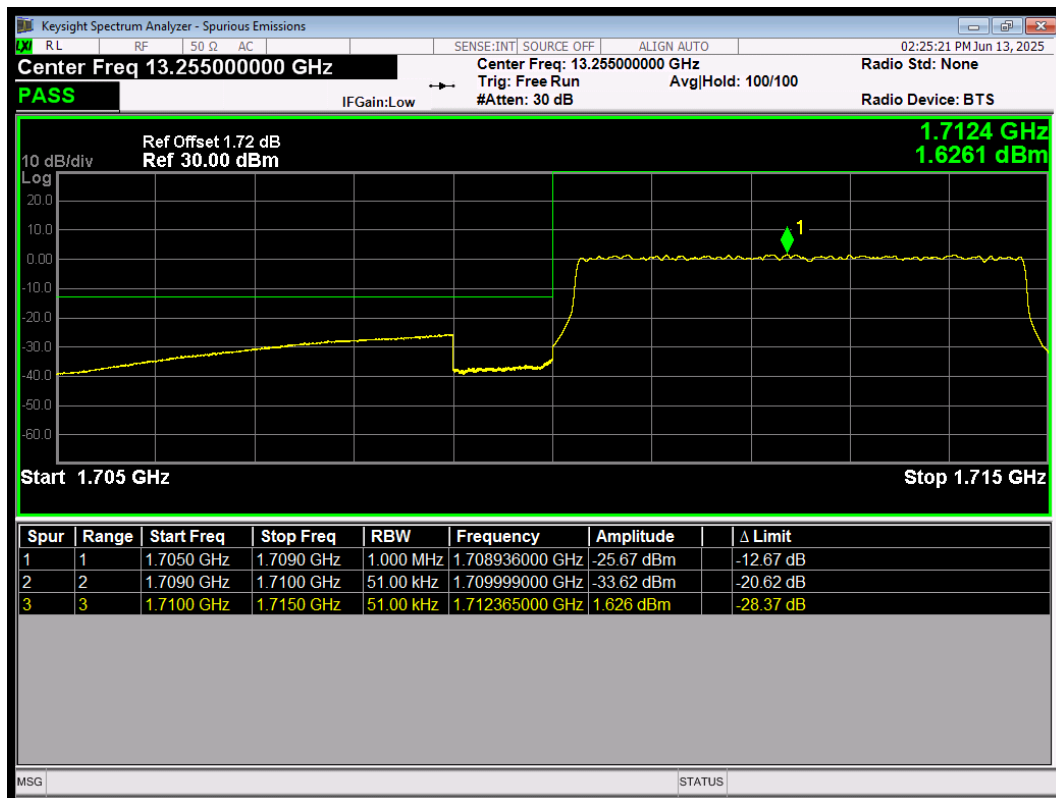
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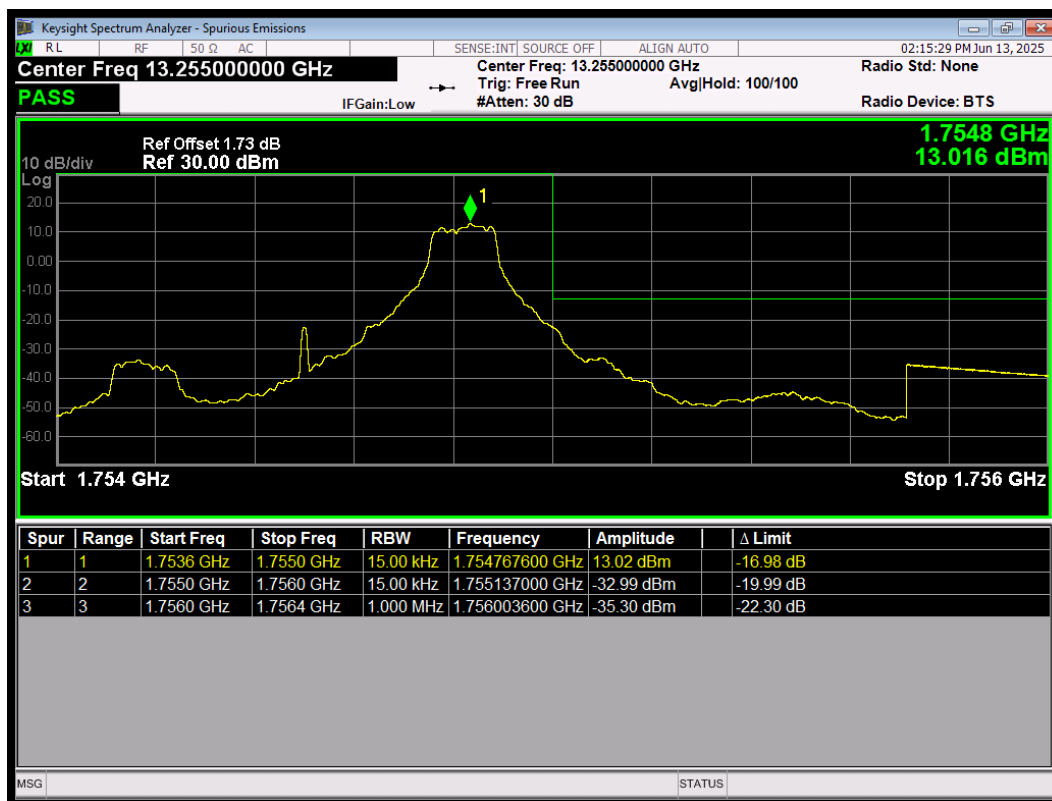
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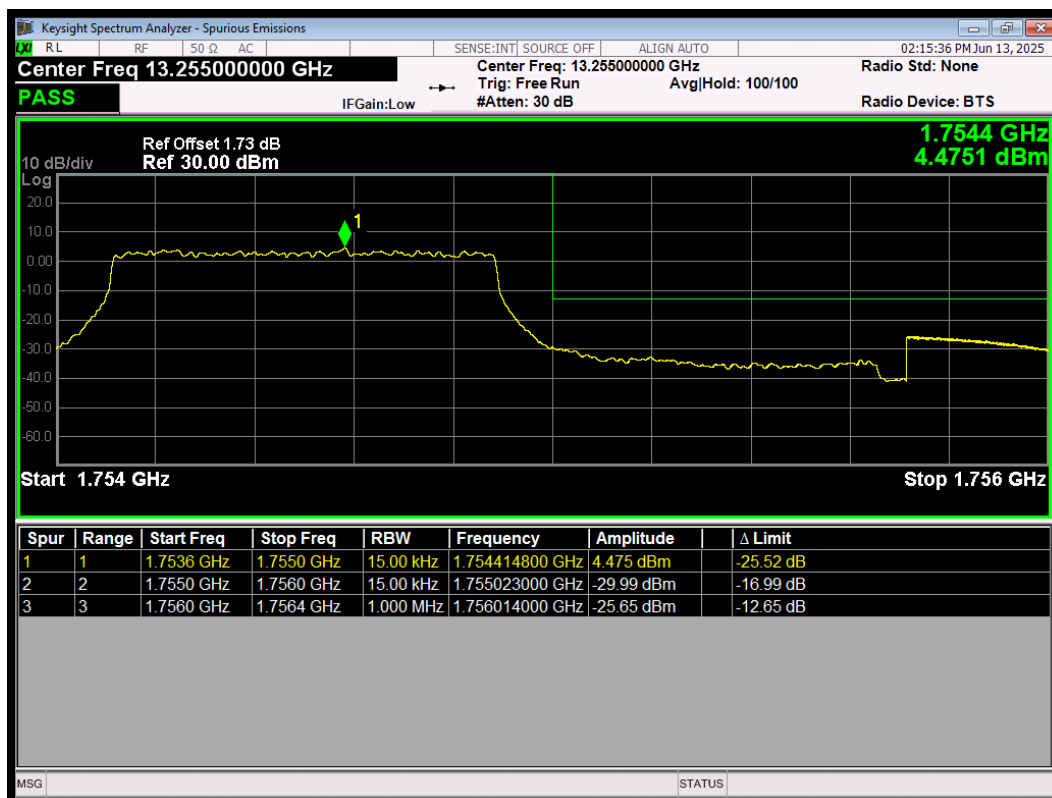
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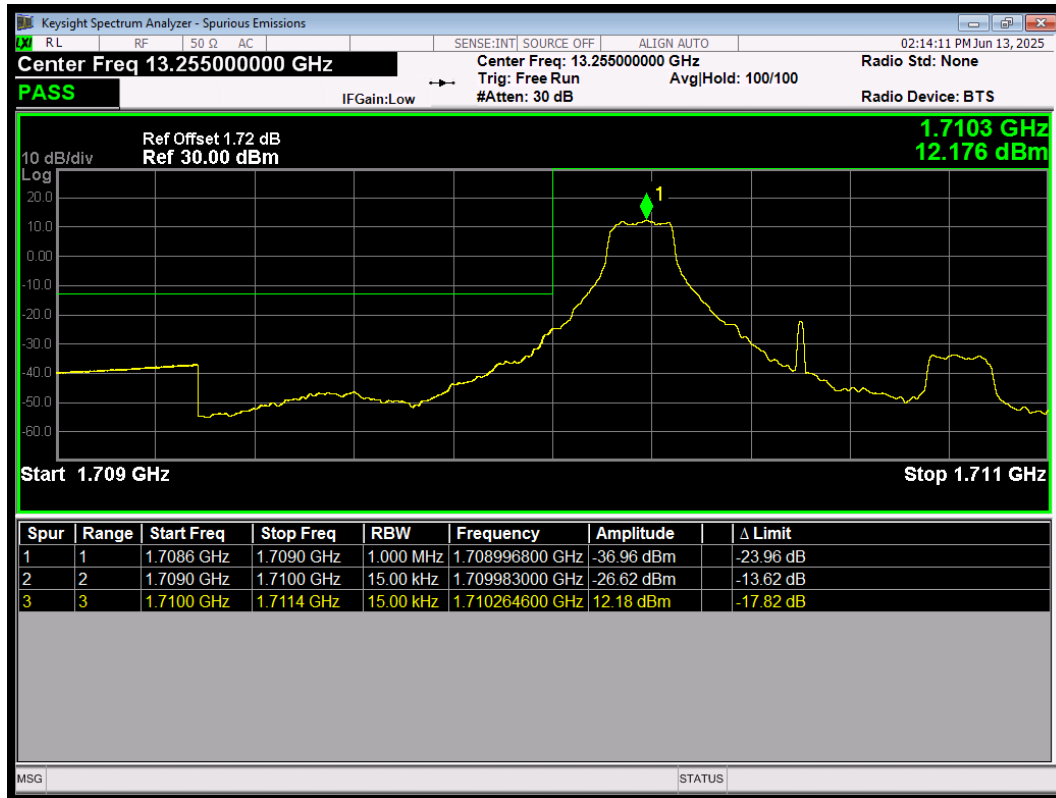
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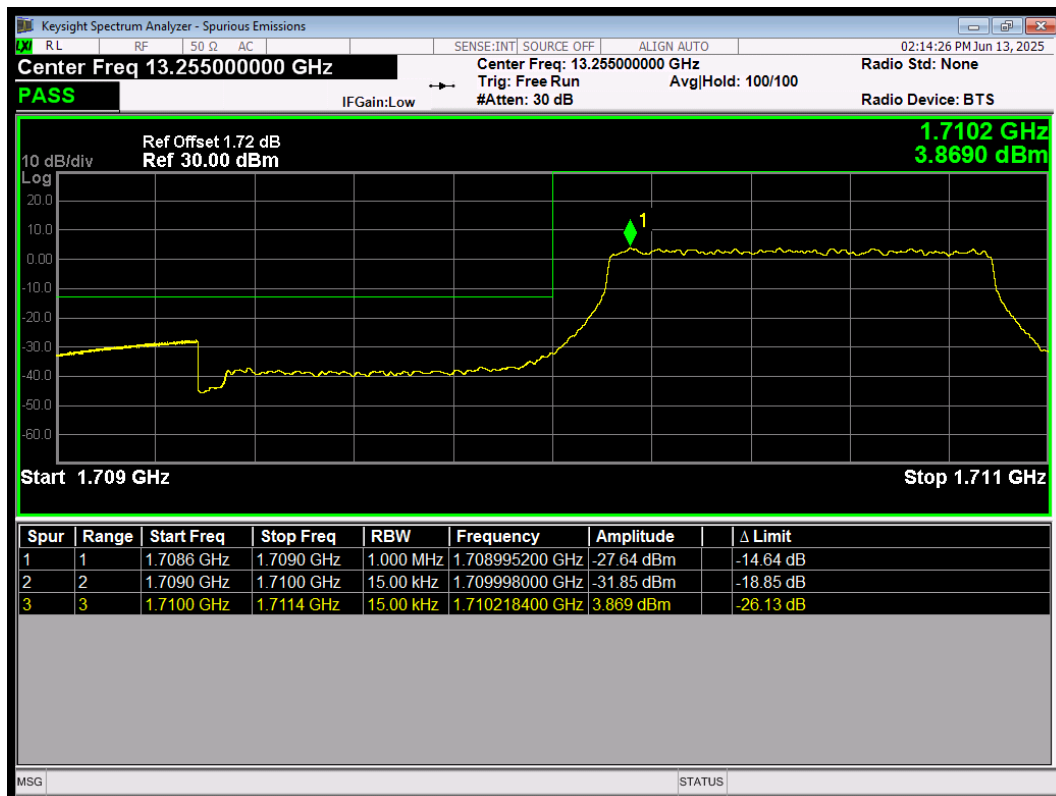
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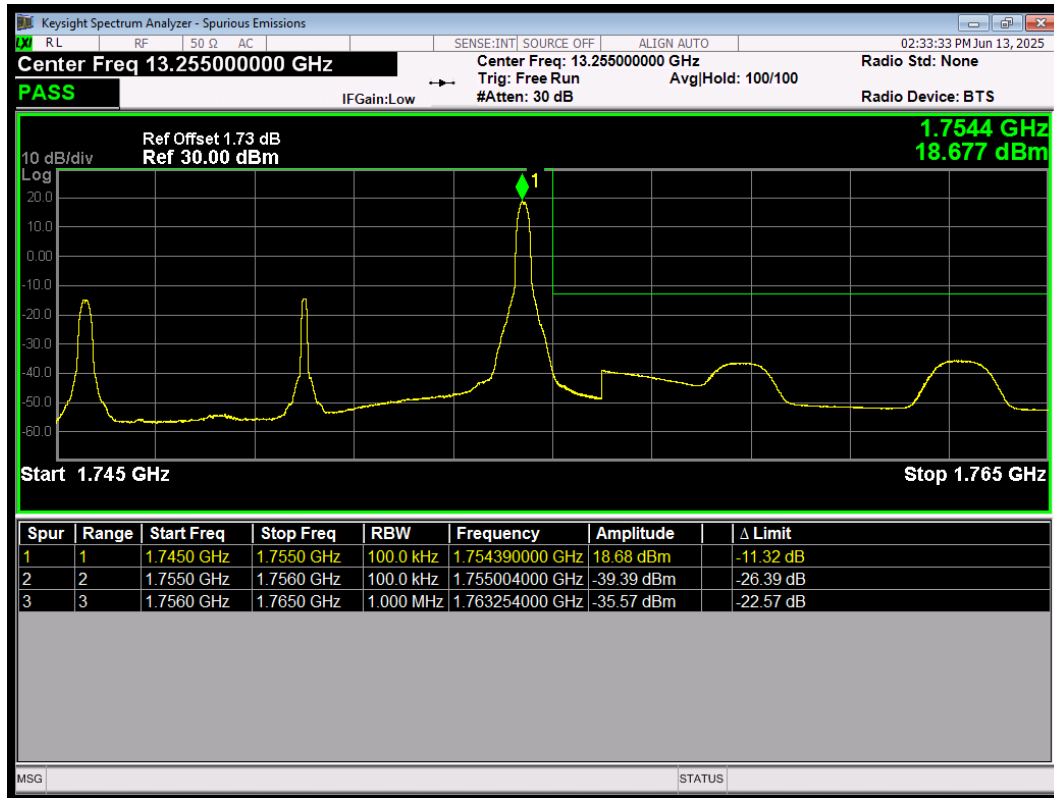
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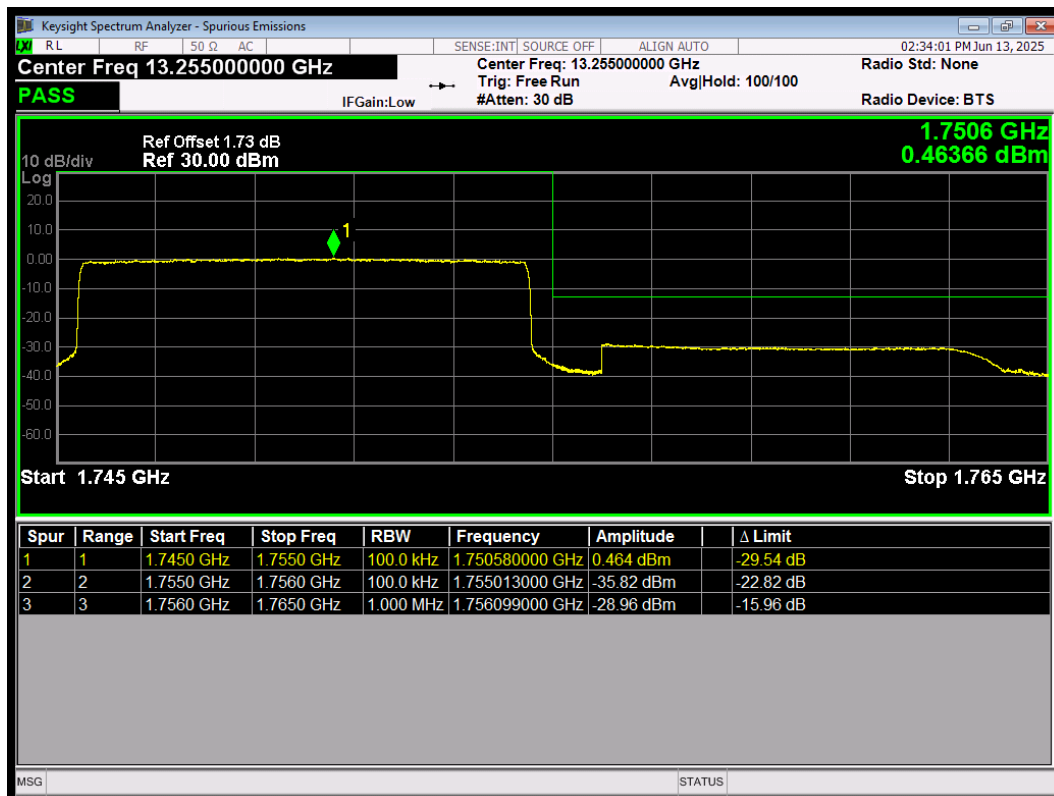
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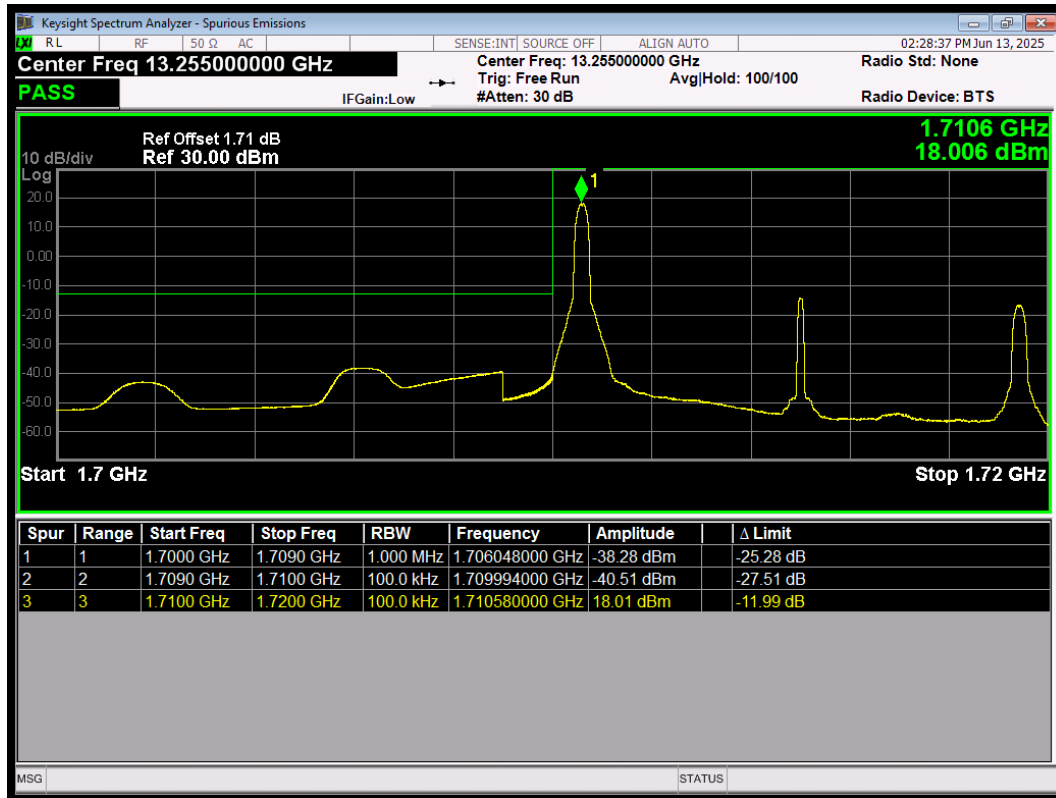
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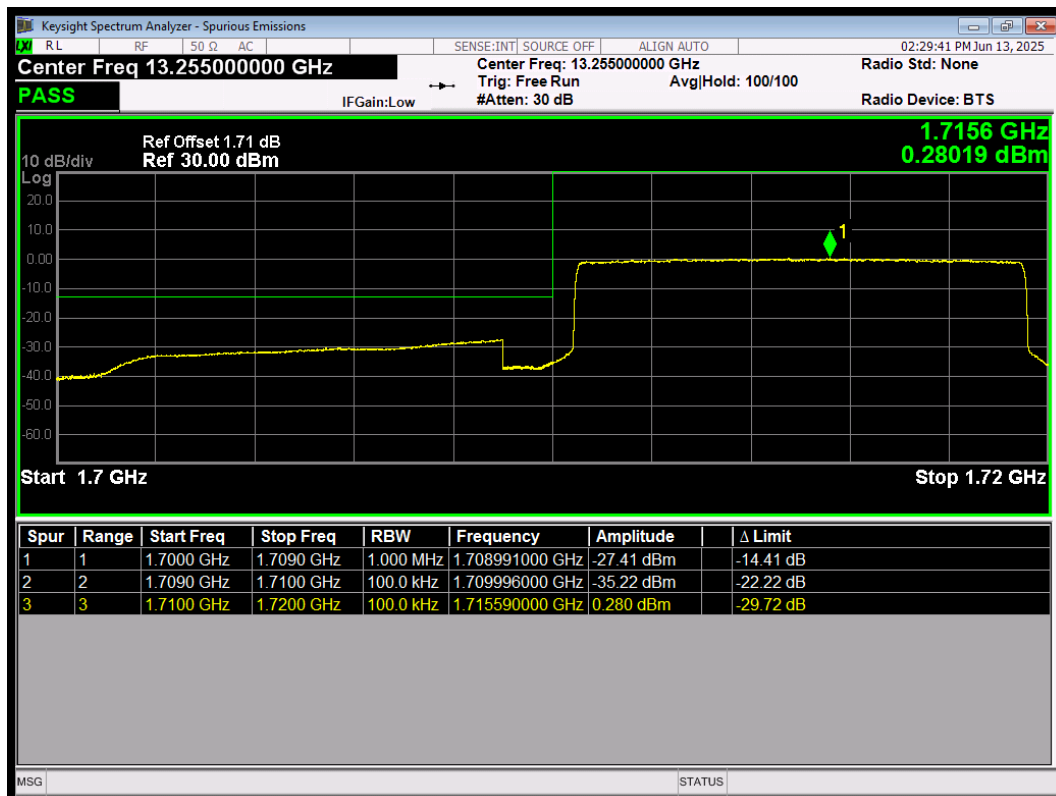
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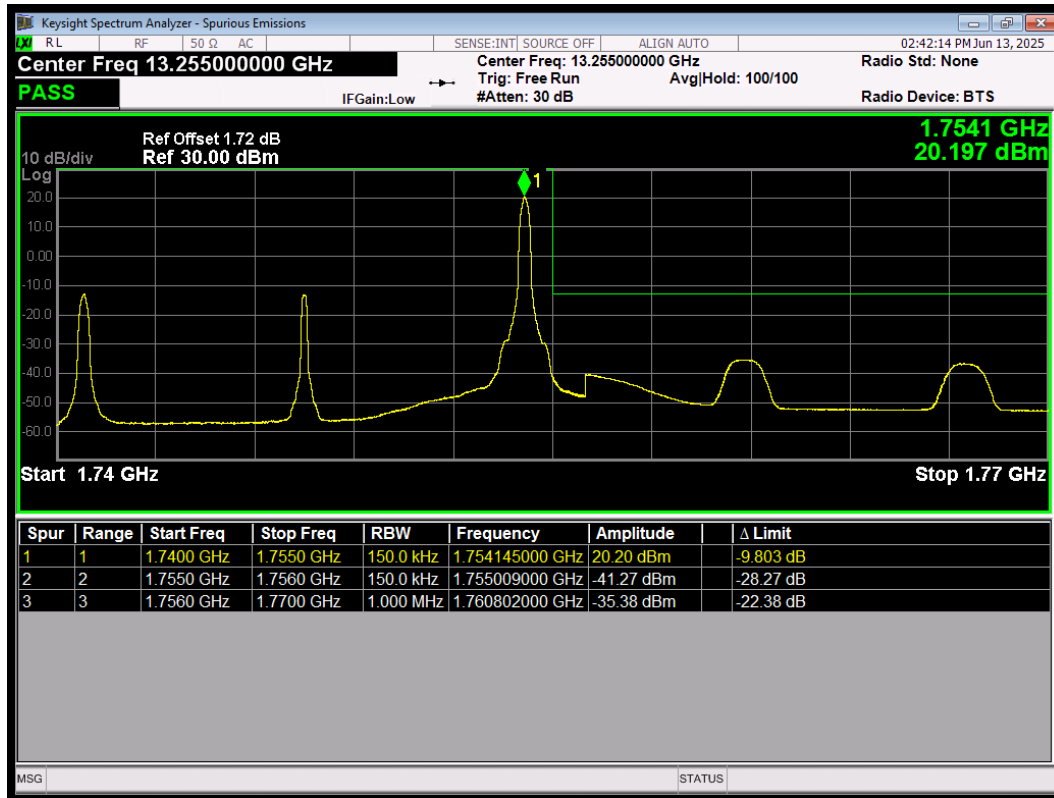
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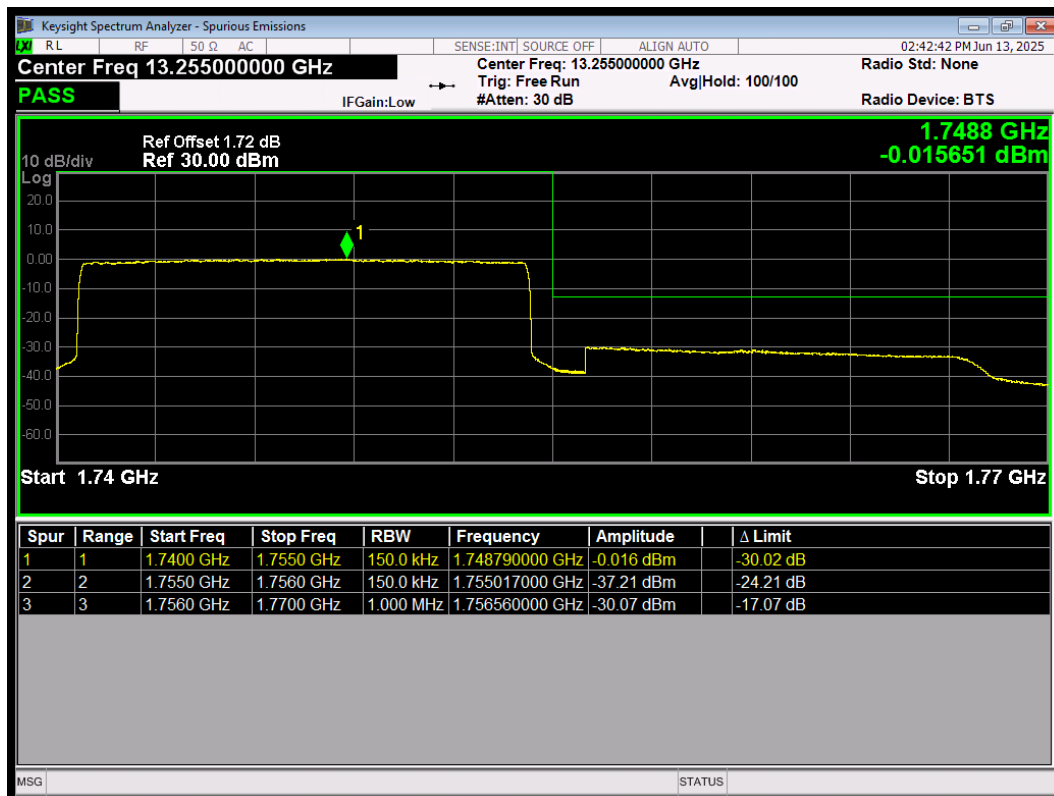
LTE Band 4 Band edge QPSK BW=10MHz Low Channel=20000 RB Size=1 Position=#0



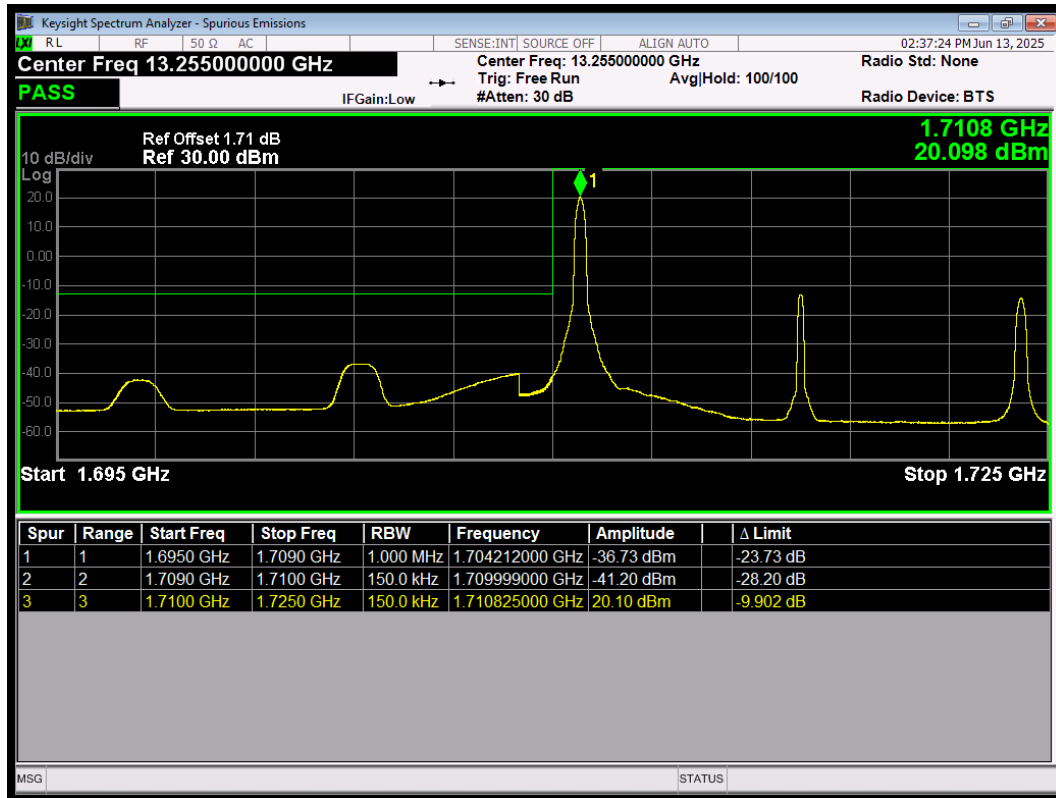
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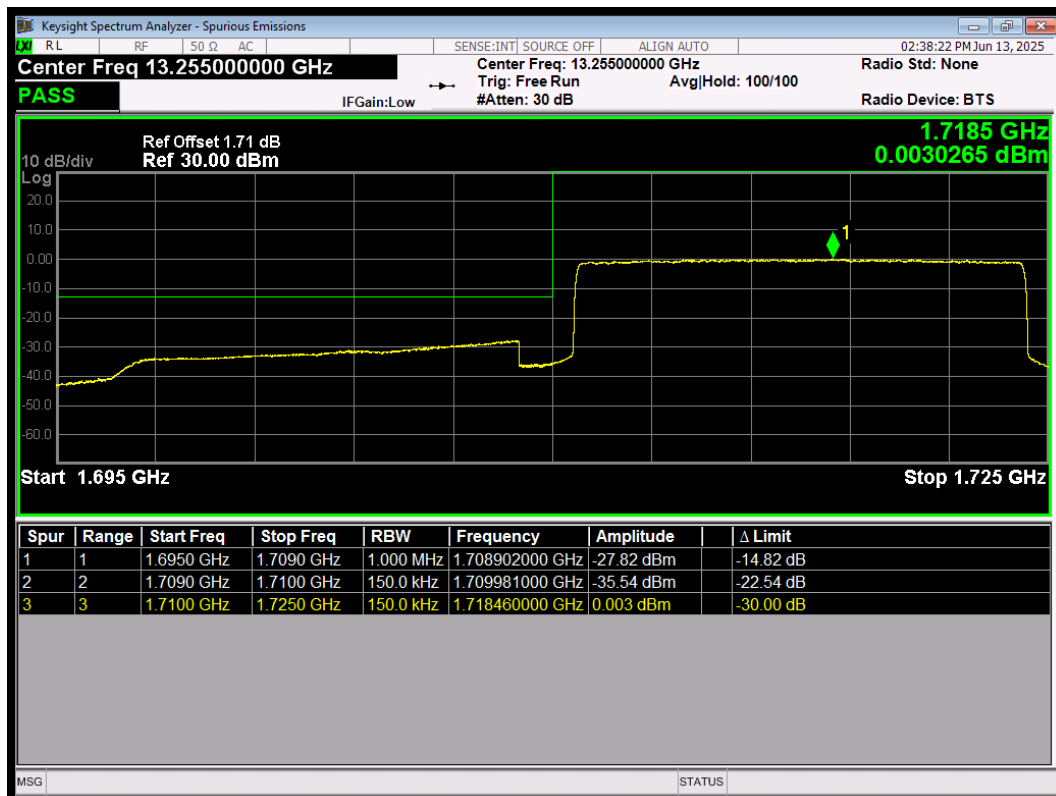
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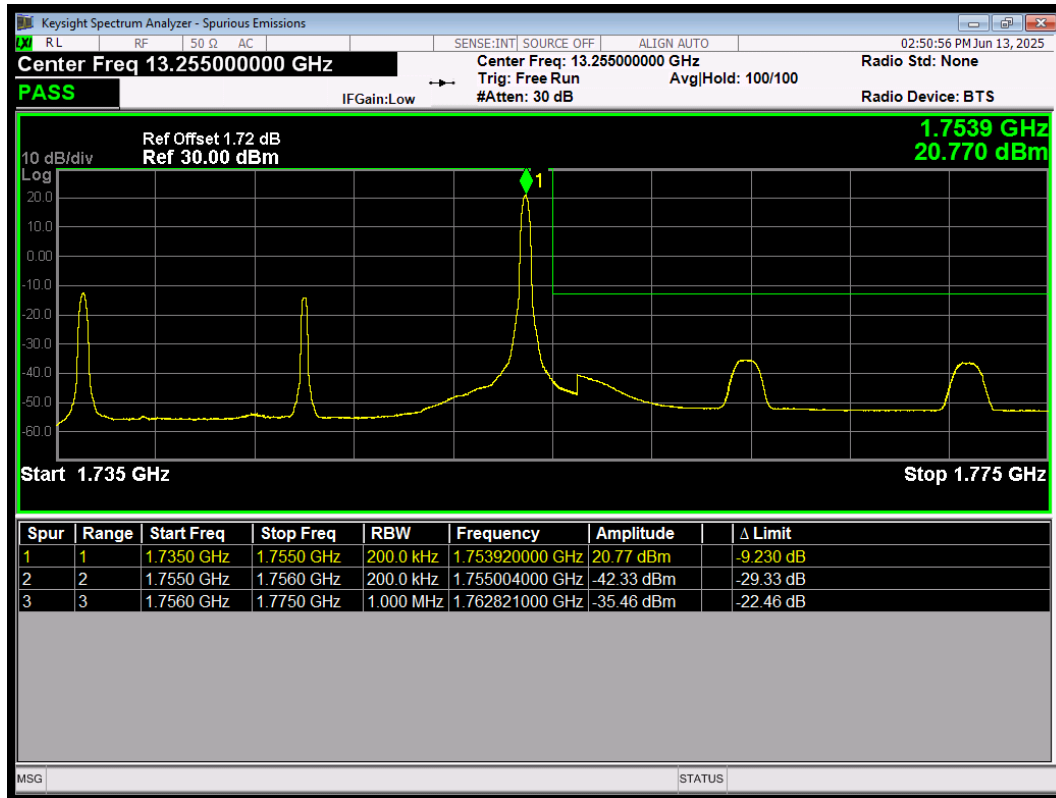
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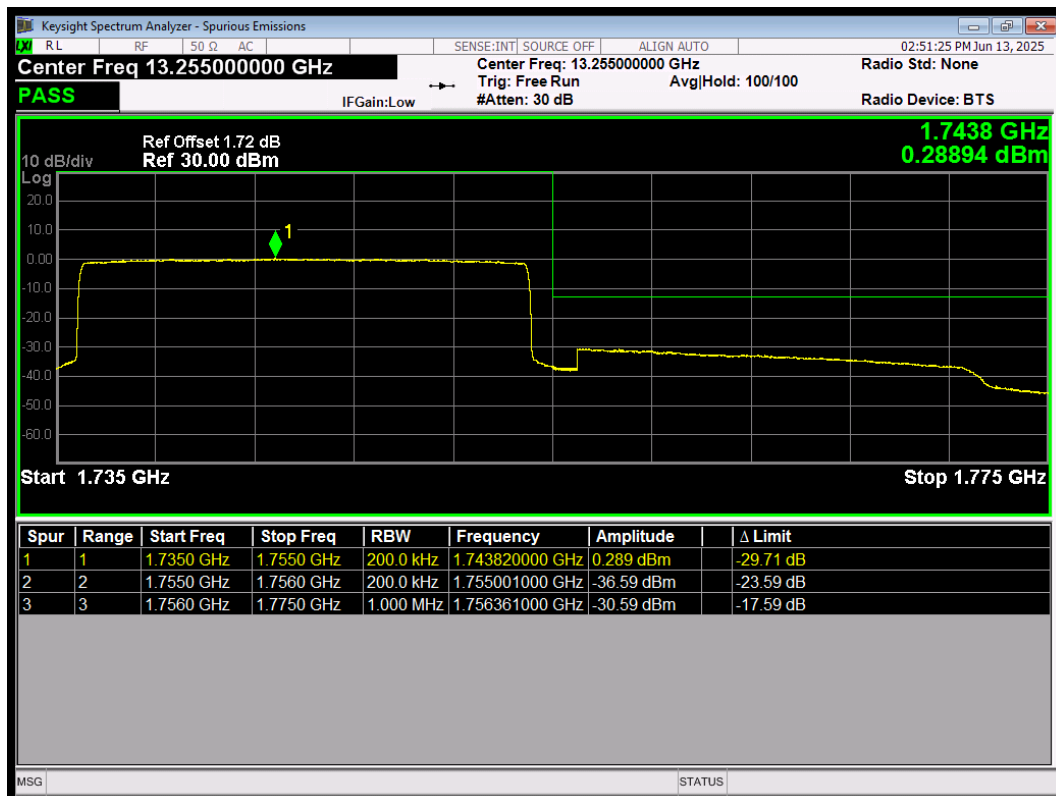
LTE Band 4 Band edge QPSK BW=15MHz Low Channel=20025 RB Size=1 Position=#0



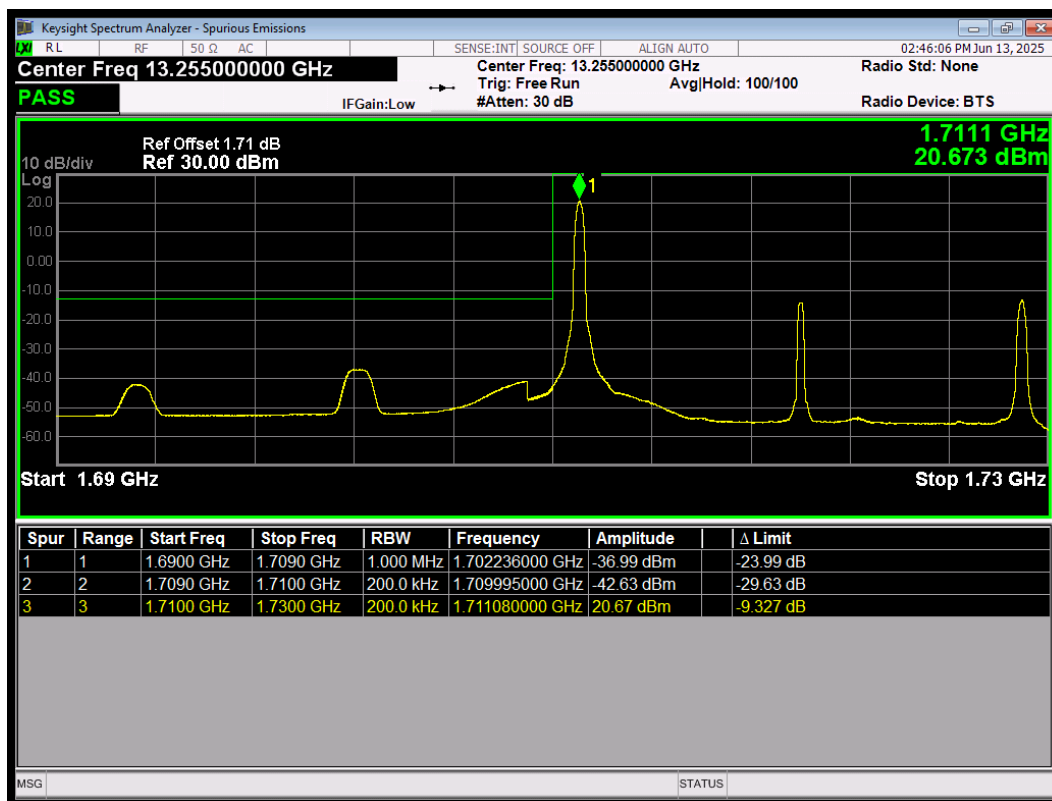
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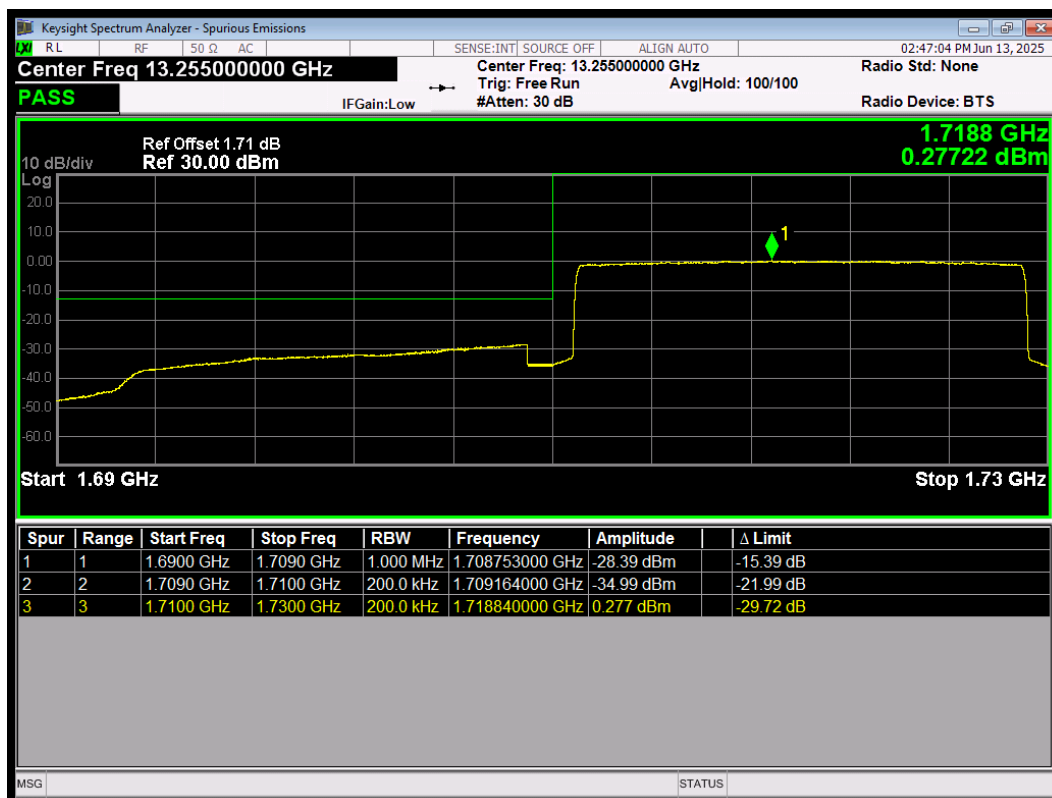
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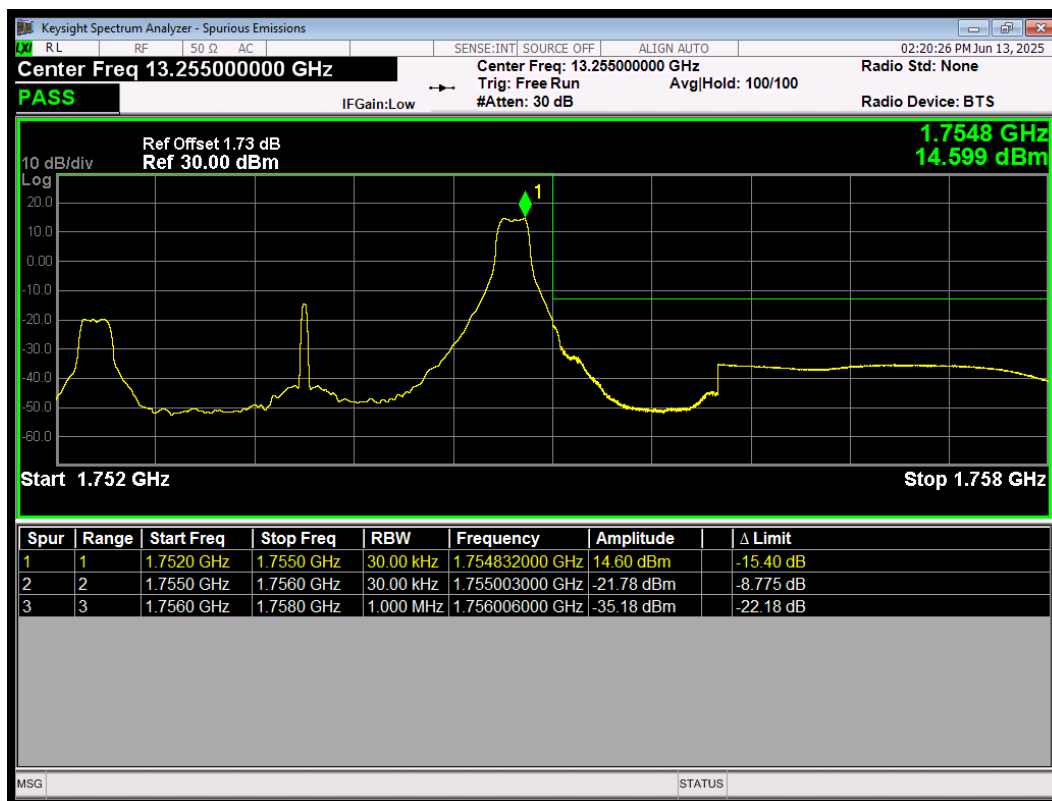
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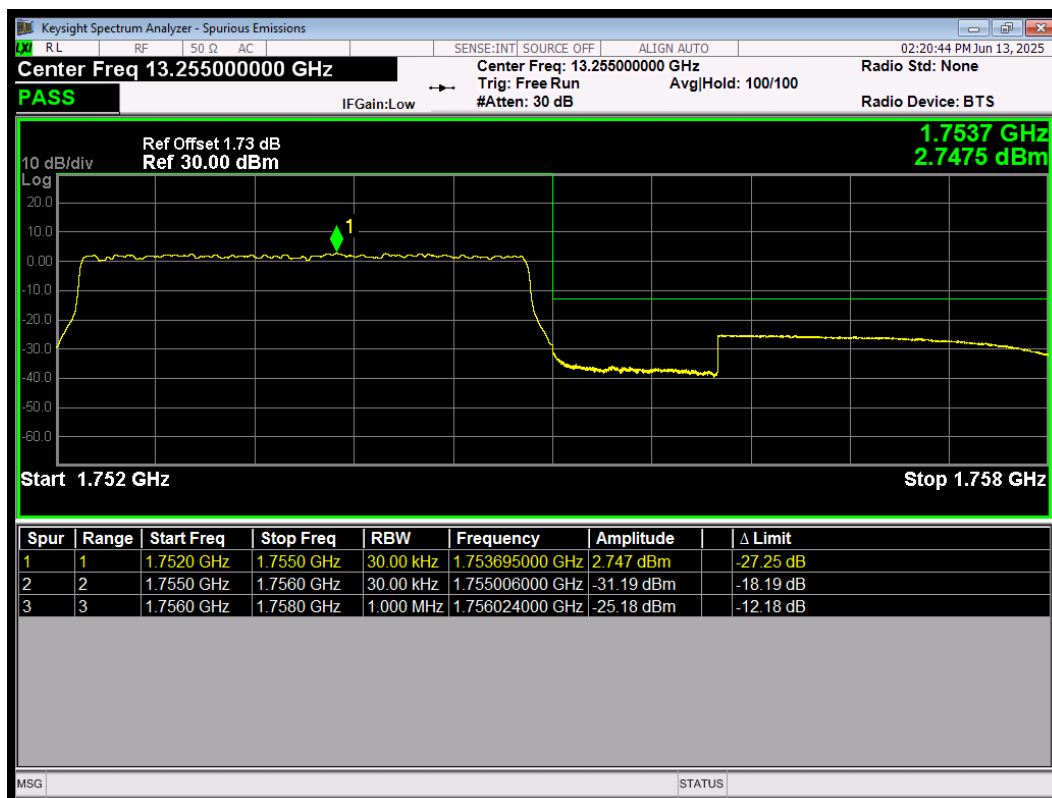
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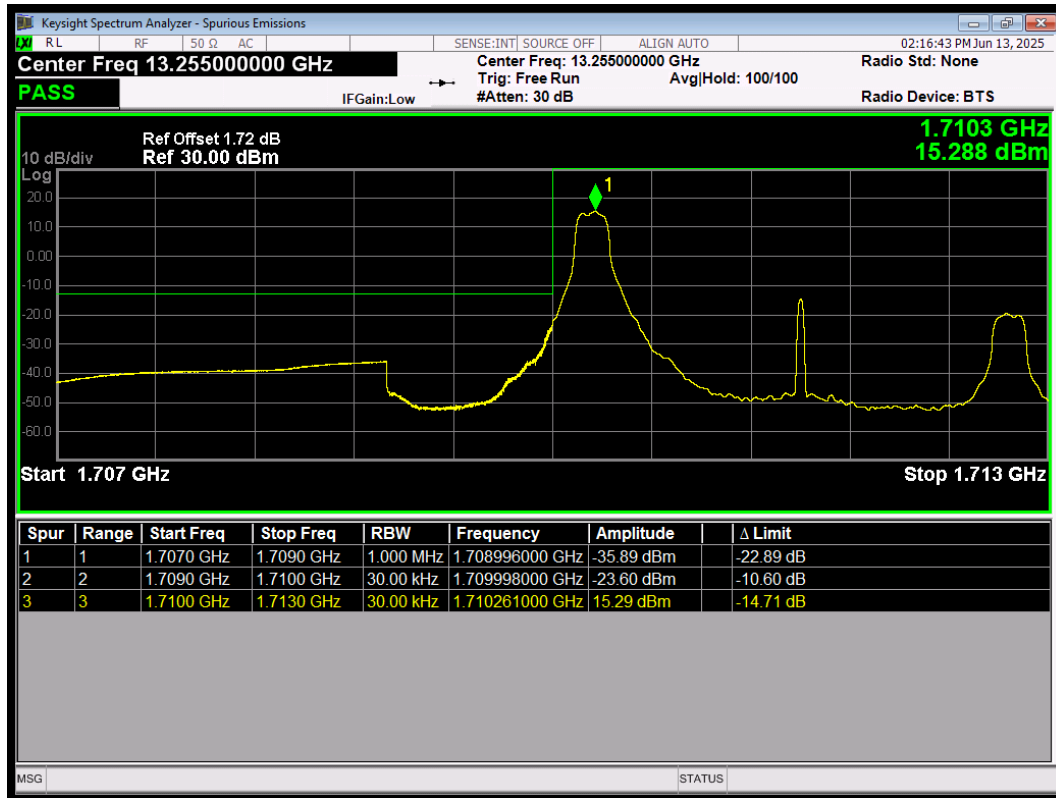
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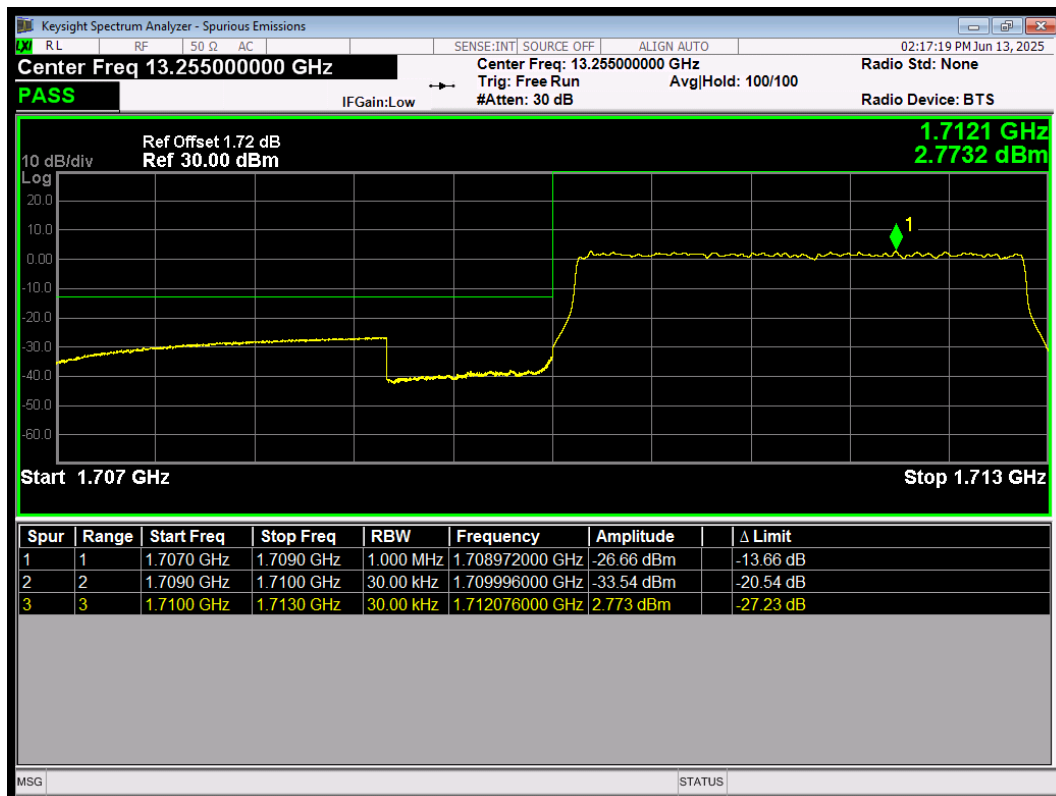
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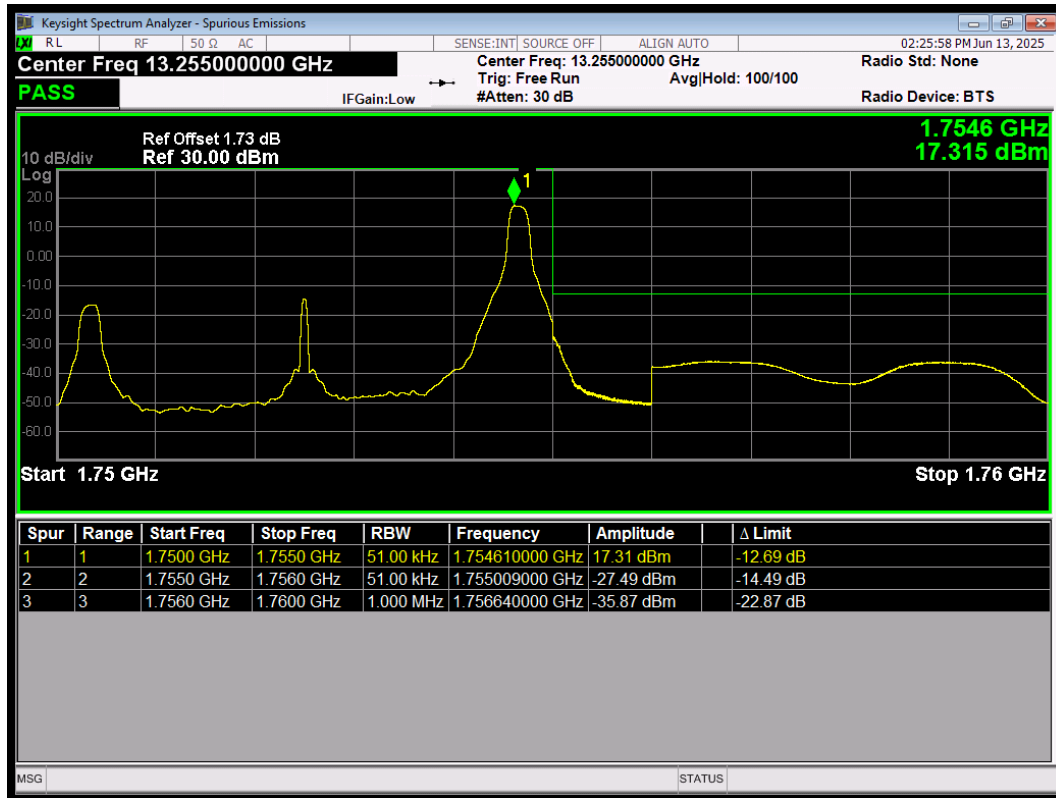
LTE Band 4 Band edge QPSK BW=3MHz High Channel=20385 RB Size=15 Position=#0



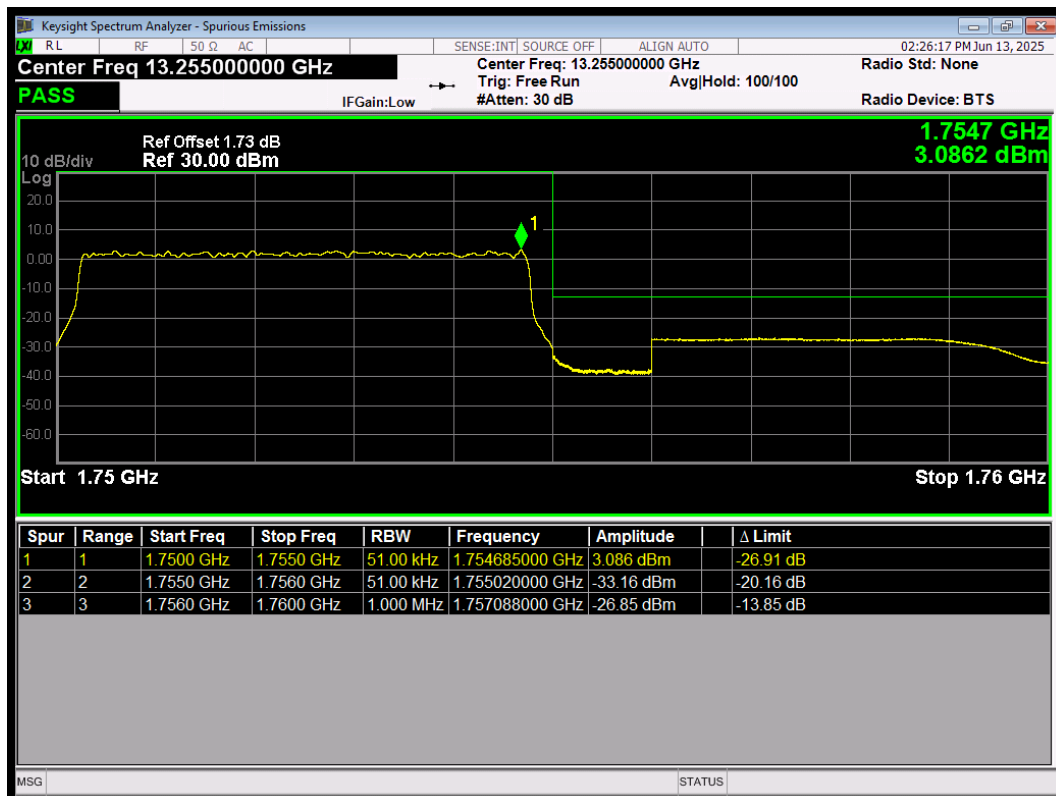
LTE Band 4 Band edge QPSK BW=3MHz Low Channel=19965 RB Size=1 Position=#0



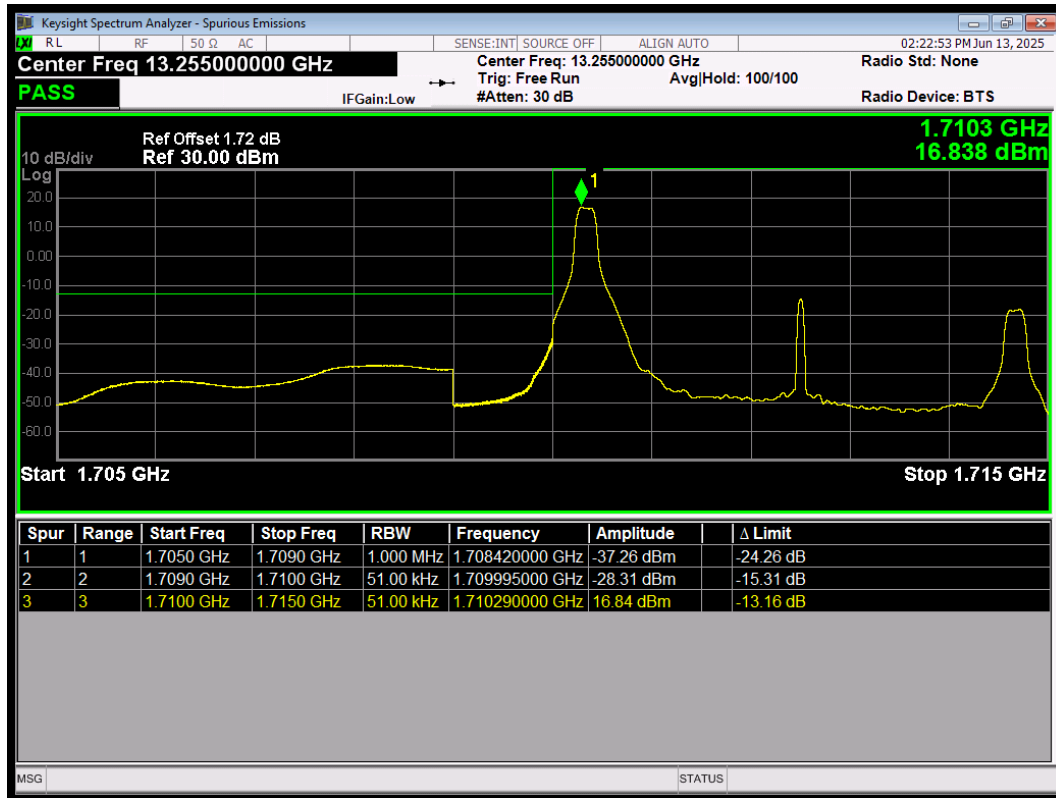
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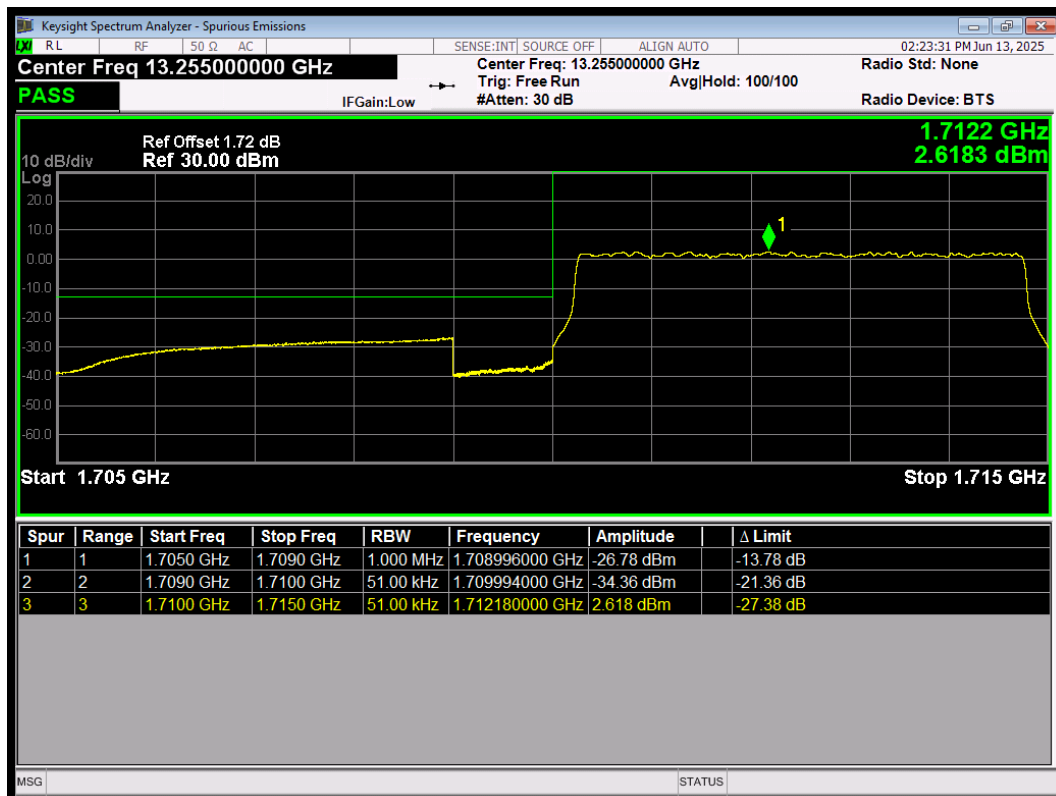
LTE Band 4 Band edge QPSK BW=5MHz High Channel=20375 RB Size=1 Position=#Max



LTE Band 4 Band edge QPSK BW=5MHz High Channel=20375 RB Size=25 Position=#0



LTE Band 4 Band edge QPSK BW=5MHz Low Channel=19975 RB Size=1 Position=#0



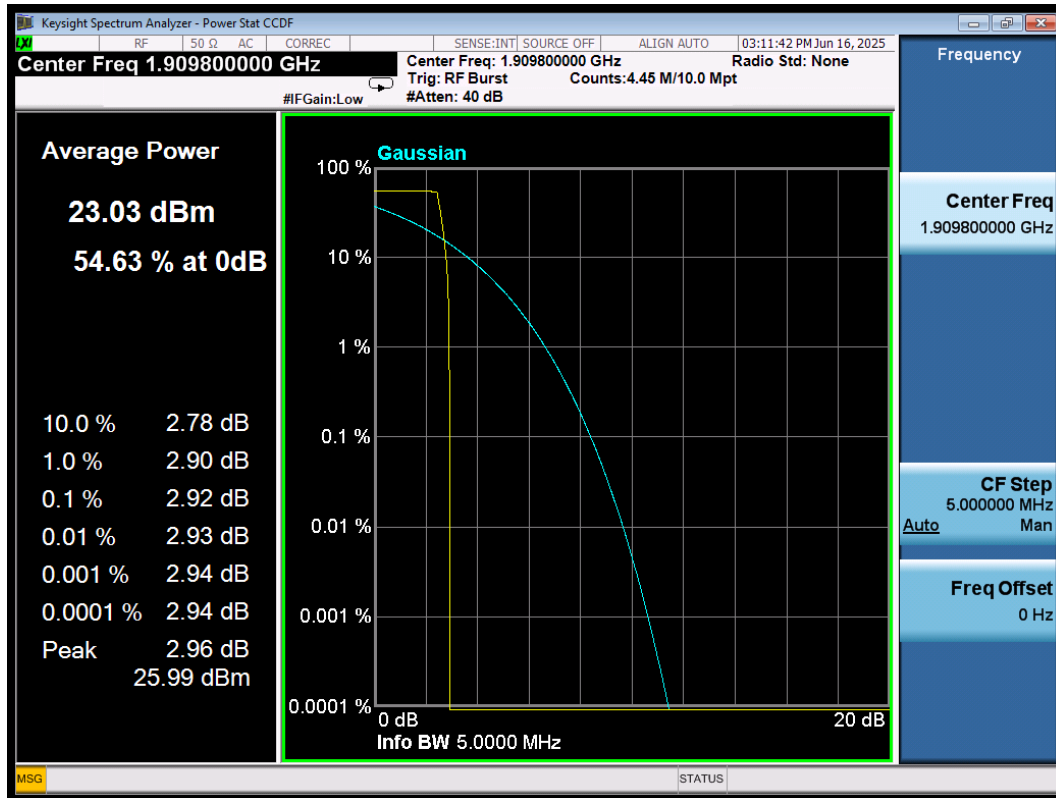
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## 6.4 Peak-to-Average Power Ratio (PAPR)

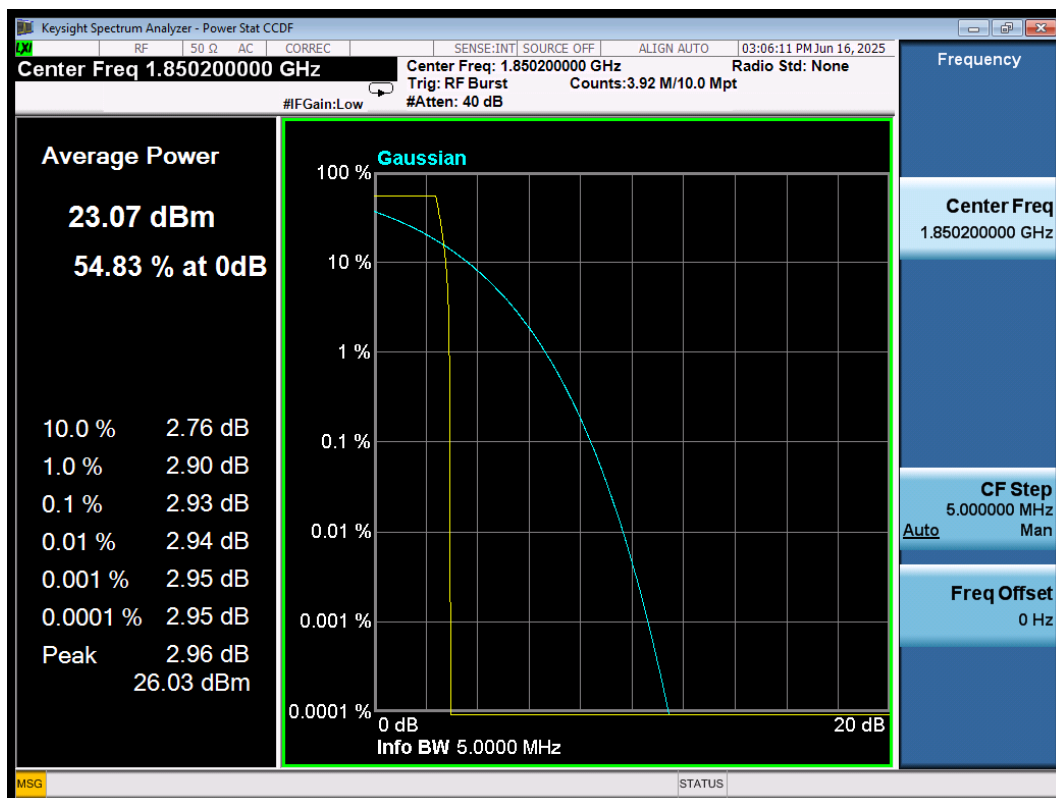
| GSM1900 | Channel | Peak (dBm) | Avg (dBm) | PAPR (dB) |
|---------|---------|------------|-----------|-----------|
| GPRS    | L       | 26.00      | 23.07     | 2.93      |
|         | M       | 26.05      | 23.10     | 2.95      |
|         | H       | 25.95      | 23.03     | 2.92      |
| EGPRS   | L       | 28.29      | 21.79     | 6.50      |
|         | M       | 28.08      | 22.04     | 6.04      |
|         | H       | 27.70      | 21.98     | 5.72      |

| Band  | Bandwidth (MHz) | UL Channel | RB Size | RB Position | Modulation | Peak Power(dBm) | Avg Power(dBm) | Result (dB) |
|-------|-----------------|------------|---------|-------------|------------|-----------------|----------------|-------------|
| Band4 | 1.4             | 19957      | 6       | #0          | QPSK       | 26.24           | 20.98          | 5.26        |
| Band4 | 1.4             | 19957      | 6       | #0          | 16QAM      | 26.12           | 20.06          | 6.06        |
| Band4 | 1.4             | 19957      | 6       | #0          | 64QAM      | 26.07           | 20.00          | 6.07        |
| Band4 | 1.4             | 20175      | 6       | #0          | QPSK       | 26.45           | 21.02          | 5.43        |
| Band4 | 1.4             | 20175      | 6       | #0          | 16QAM      | 26.12           | 19.93          | 6.19        |
| Band4 | 1.4             | 20175      | 6       | #0          | 64QAM      | 26.14           | 19.95          | 6.19        |
| Band4 | 1.4             | 20393      | 6       | #0          | QPSK       | 25.67           | 21.08          | 4.59        |
| Band4 | 1.4             | 20393      | 6       | #0          | 16QAM      | 25.61           | 20.18          | 5.43        |
| Band4 | 1.4             | 20393      | 6       | #0          | 64QAM      | 25.49           | 20.02          | 5.47        |
| Band4 | 3               | 19965      | 15      | #0          | QPSK       | 26.37           | 21.01          | 5.36        |
| Band4 | 3               | 19965      | 15      | #0          | 16QAM      | 26.32           | 20.15          | 6.17        |
| Band4 | 3               | 19965      | 15      | #0          | 64QAM      | 26.16           | 20.01          | 6.15        |
| Band4 | 3               | 20175      | 15      | #0          | QPSK       | 26.54           | 21.14          | 5.40        |
| Band4 | 3               | 20175      | 15      | #0          | 16QAM      | 26.43           | 20.18          | 6.25        |
| Band4 | 3               | 20175      | 15      | #0          | 64QAM      | 26.36           | 20.15          | 6.21        |
| Band4 | 3               | 20385      | 15      | #0          | QPSK       | 25.83           | 21.12          | 4.71        |
| Band4 | 3               | 20385      | 15      | #0          | 16QAM      | 25.75           | 20.16          | 5.59        |
| Band4 | 3               | 20385      | 15      | #0          | 64QAM      | 25.72           | 20.13          | 5.59        |
| Band4 | 5               | 19975      | 25      | #0          | QPSK       | 26.37           | 21.02          | 5.35        |
| Band4 | 5               | 19975      | 25      | #0          | 16QAM      | 26.18           | 20.03          | 6.15        |
| Band4 | 5               | 19975      | 25      | #0          | 64QAM      | 26.25           | 20.14          | 6.11        |
| Band4 | 5               | 20175      | 25      | #0          | QPSK       | 26.46           | 21.06          | 5.40        |
| Band4 | 5               | 20175      | 25      | #0          | 16QAM      | 26.33           | 20.14          | 6.19        |
| Band4 | 5               | 20175      | 25      | #0          | 64QAM      | 26.31           | 20.15          | 6.16        |
| Band4 | 5               | 20375      | 25      | #0          | QPSK       | 25.94           | 21.13          | 4.81        |
| Band4 | 5               | 20375      | 25      | #0          | 16QAM      | 25.87           | 20.28          | 5.59        |
| Band4 | 5               | 20375      | 25      | #0          | 64QAM      | 25.85           | 20.25          | 5.60        |
| Band4 | 10              | 20000      | 50      | #0          | QPSK       | 26.56           | 21.13          | 5.43        |

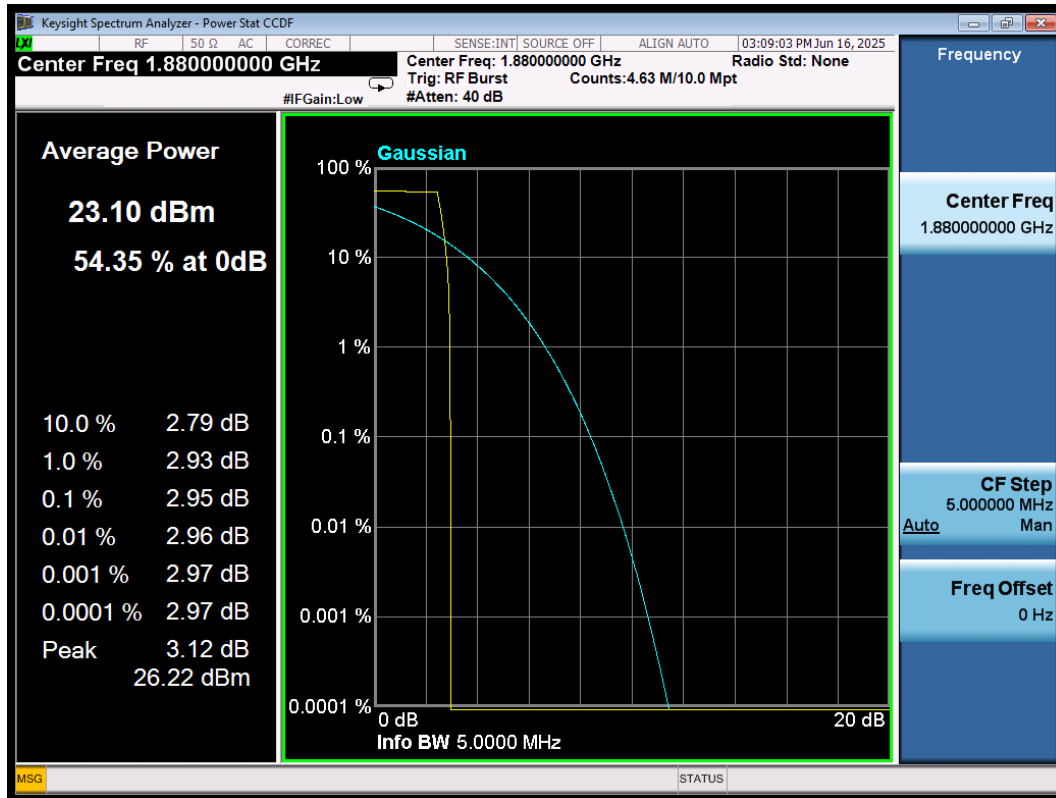
|       |    |       |     |    |       |       |       |      |
|-------|----|-------|-----|----|-------|-------|-------|------|
| Band4 | 10 | 20000 | 50  | #0 | 16QAM | 26.33 | 20.15 | 6.18 |
| Band4 | 10 | 20000 | 50  | #0 | 64QAM | 26.43 | 20.24 | 6.19 |
| Band4 | 10 | 20175 | 50  | #0 | QPSK  | 26.55 | 21.14 | 5.41 |
| Band4 | 10 | 20175 | 50  | #0 | 16QAM | 26.36 | 20.15 | 6.21 |
| Band4 | 10 | 20175 | 50  | #0 | 64QAM | 26.34 | 20.14 | 6.20 |
| Band4 | 10 | 20350 | 50  | #0 | QPSK  | 26.07 | 21.05 | 5.02 |
| Band4 | 10 | 20350 | 50  | #0 | 16QAM | 25.92 | 20.08 | 5.84 |
| Band4 | 10 | 20350 | 50  | #0 | 64QAM | 25.98 | 20.17 | 5.81 |
| Band4 | 15 | 20025 | 75  | #0 | QPSK  | 26.46 | 21.13 | 5.33 |
| Band4 | 15 | 20025 | 75  | #0 | 16QAM | 26.41 | 20.24 | 6.17 |
| Band4 | 15 | 20025 | 75  | #0 | 64QAM | 26.42 | 20.24 | 6.18 |
| Band4 | 15 | 20175 | 75  | #0 | QPSK  | 26.44 | 21.12 | 5.32 |
| Band4 | 15 | 20175 | 75  | #0 | 16QAM | 26.29 | 20.13 | 6.16 |
| Band4 | 15 | 20175 | 75  | #0 | 64QAM | 26.30 | 20.13 | 6.17 |
| Band4 | 15 | 20325 | 75  | #0 | QPSK  | 26.12 | 21.04 | 5.08 |
| Band4 | 15 | 20325 | 75  | #0 | 16QAM | 25.97 | 20.05 | 5.92 |
| Band4 | 15 | 20325 | 75  | #0 | 64QAM | 25.97 | 20.05 | 5.92 |
| Band4 | 20 | 20050 | 100 | #0 | QPSK  | 26.43 | 21.10 | 5.33 |
| Band4 | 20 | 20050 | 100 | #0 | 16QAM | 26.38 | 20.20 | 6.18 |
| Band4 | 20 | 20050 | 100 | #0 | 64QAM | 26.29 | 20.10 | 6.19 |
| Band4 | 20 | 20175 | 100 | #0 | QPSK  | 26.36 | 21.11 | 5.25 |
| Band4 | 20 | 20175 | 100 | #0 | 16QAM | 26.36 | 20.22 | 6.14 |
| Band4 | 20 | 20175 | 100 | #0 | 64QAM | 26.34 | 20.23 | 6.11 |
| Band4 | 20 | 20300 | 100 | #0 | QPSK  | 26.23 | 21.12 | 5.11 |
| Band4 | 20 | 20300 | 100 | #0 | 16QAM | 26.21 | 20.23 | 5.98 |
| Band4 | 20 | 20300 | 100 | #0 | 64QAM | 26.20 | 20.24 | 5.96 |



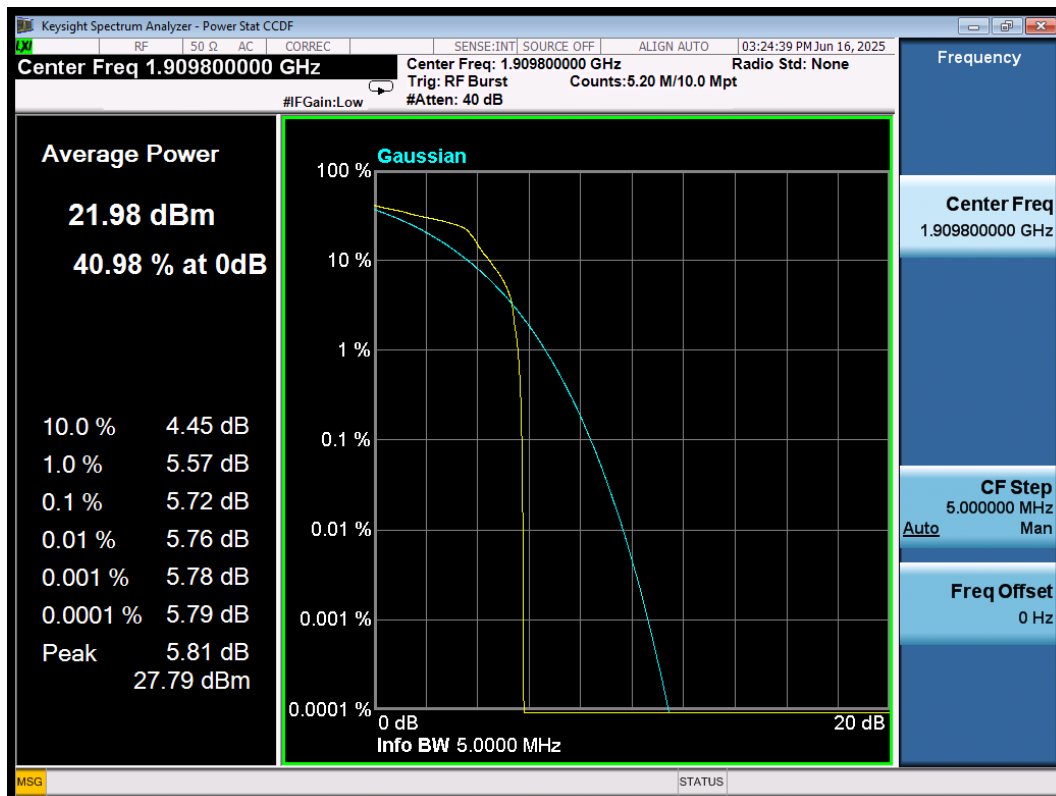
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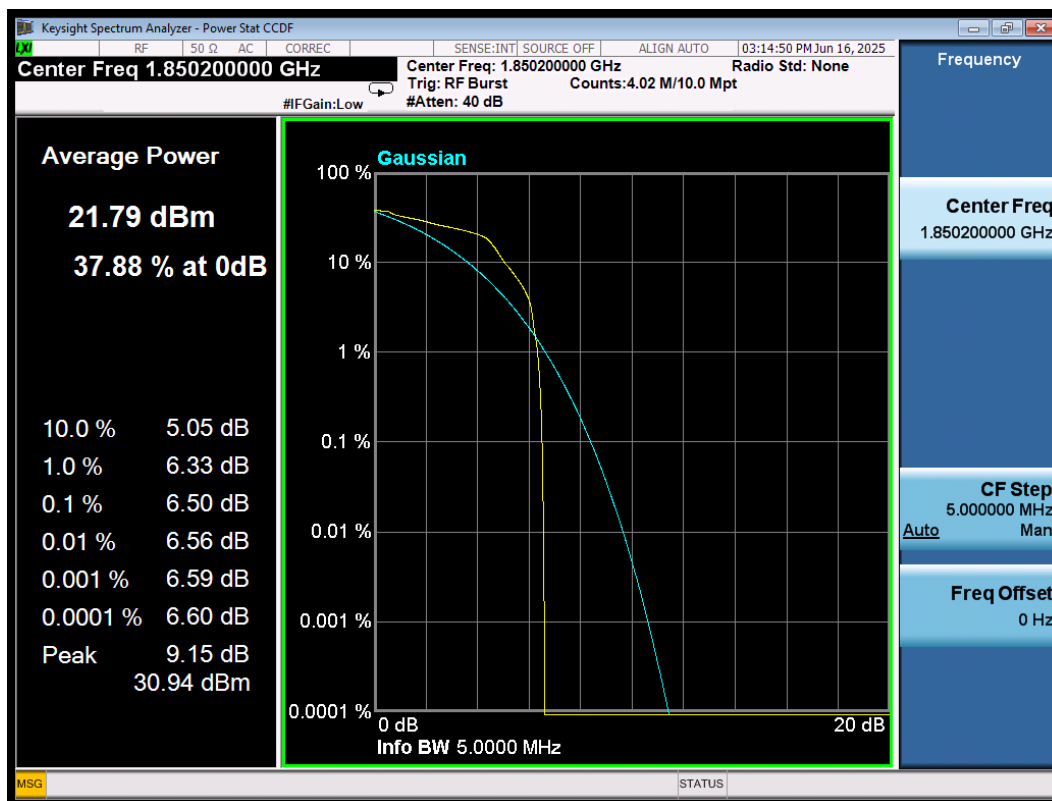
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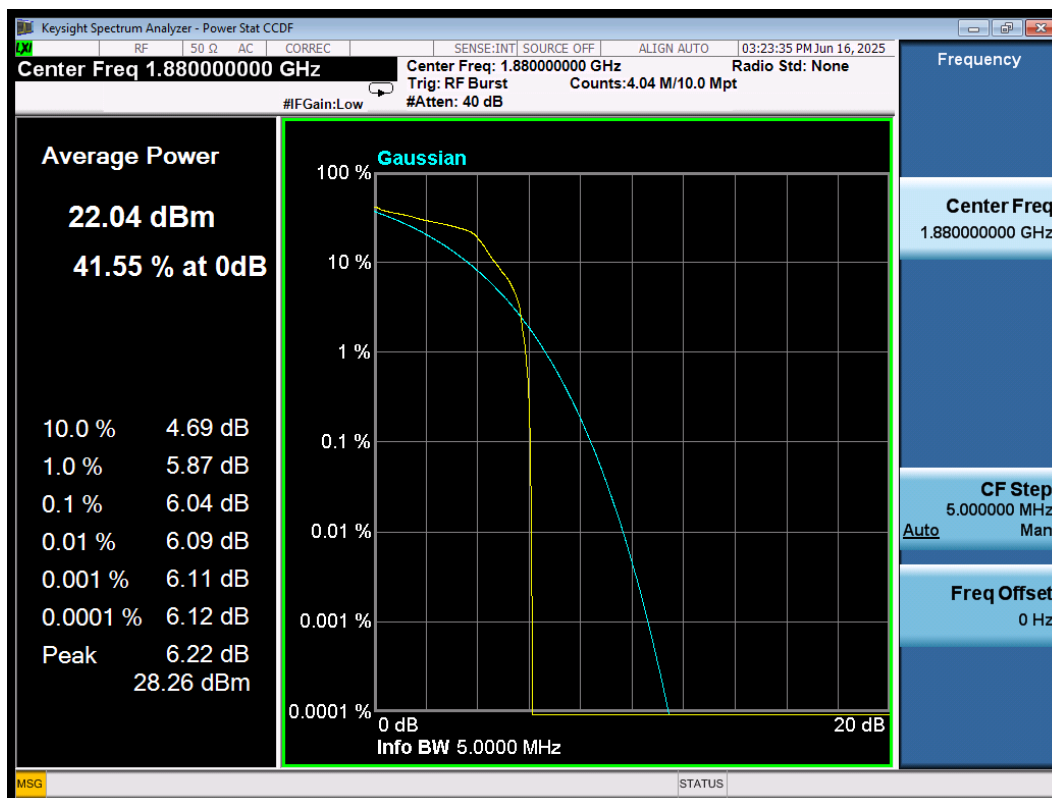
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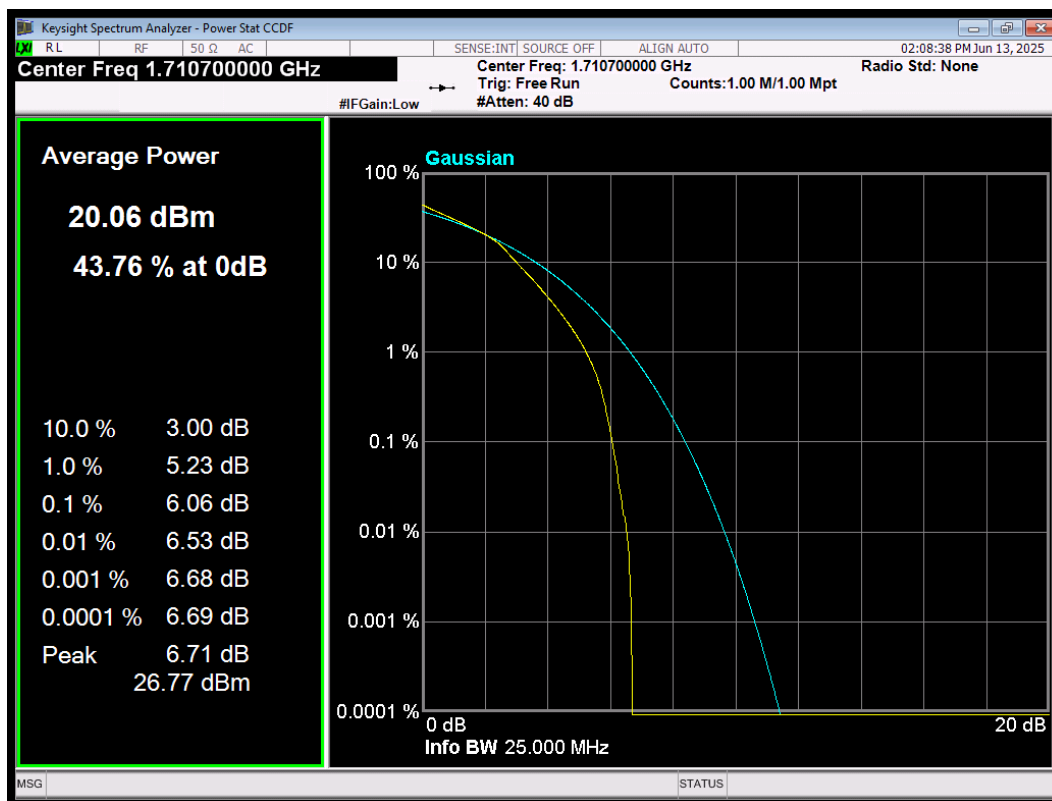
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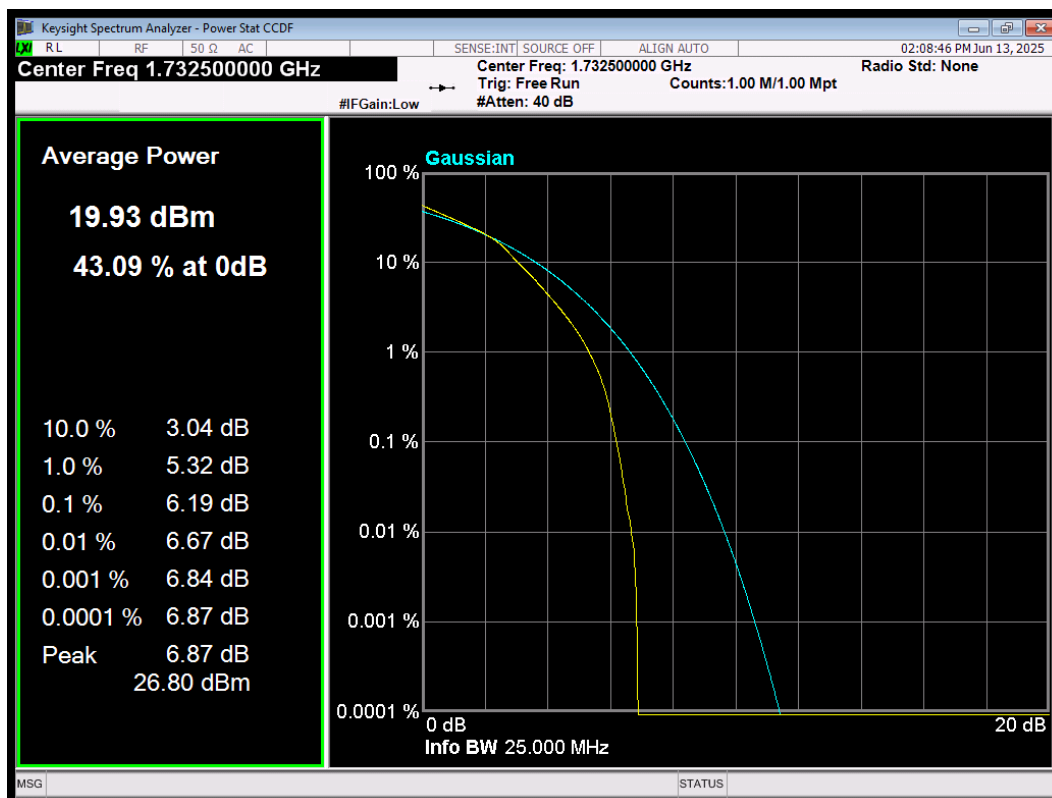
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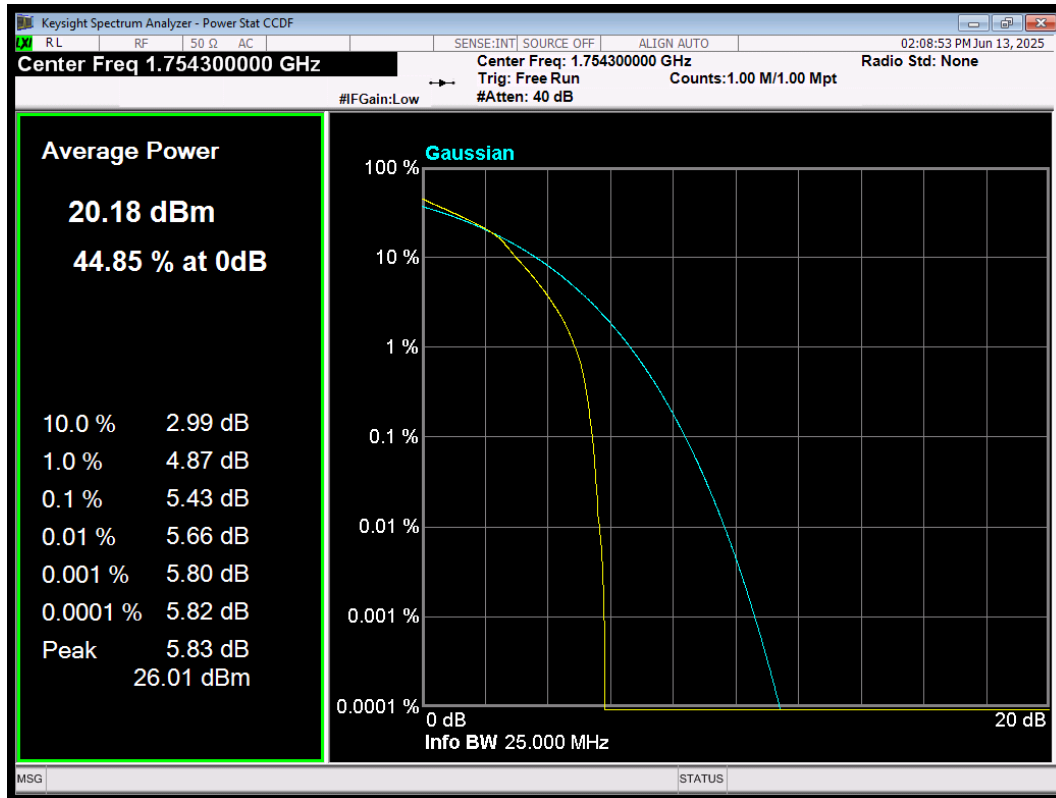
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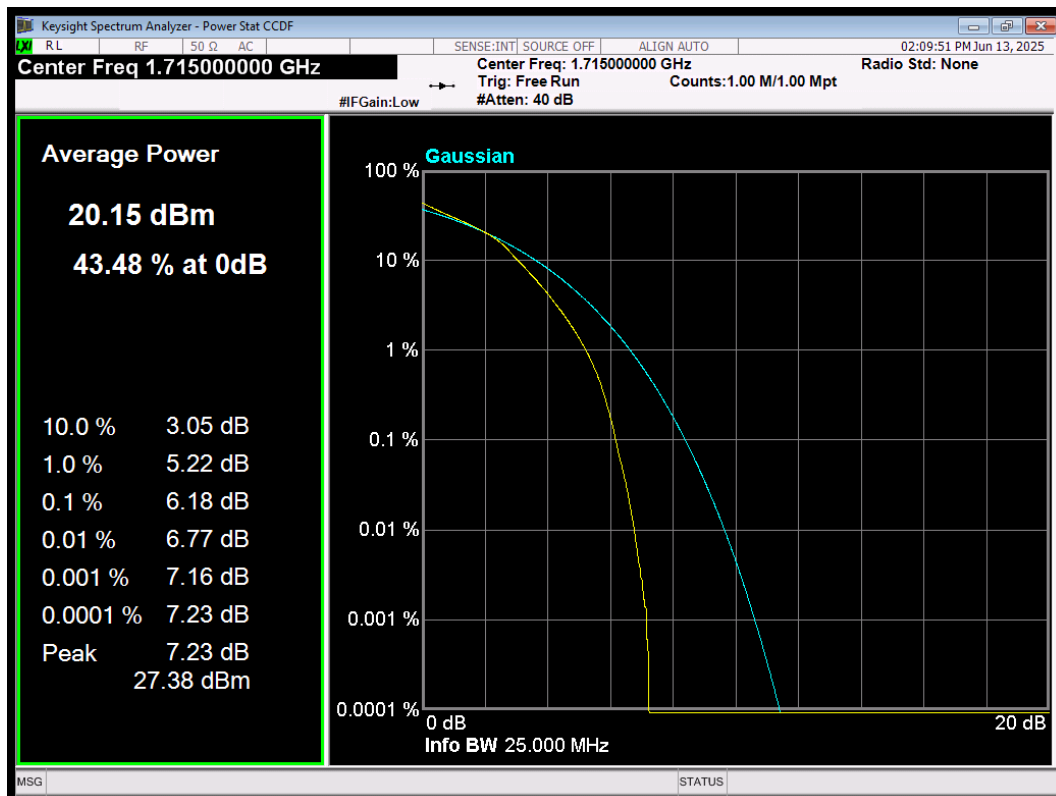
LTE Band 4 Peak-to-Average Ratio 16QAM BW=1.4MHz Channel=19957 RB Size=6 Position=#0



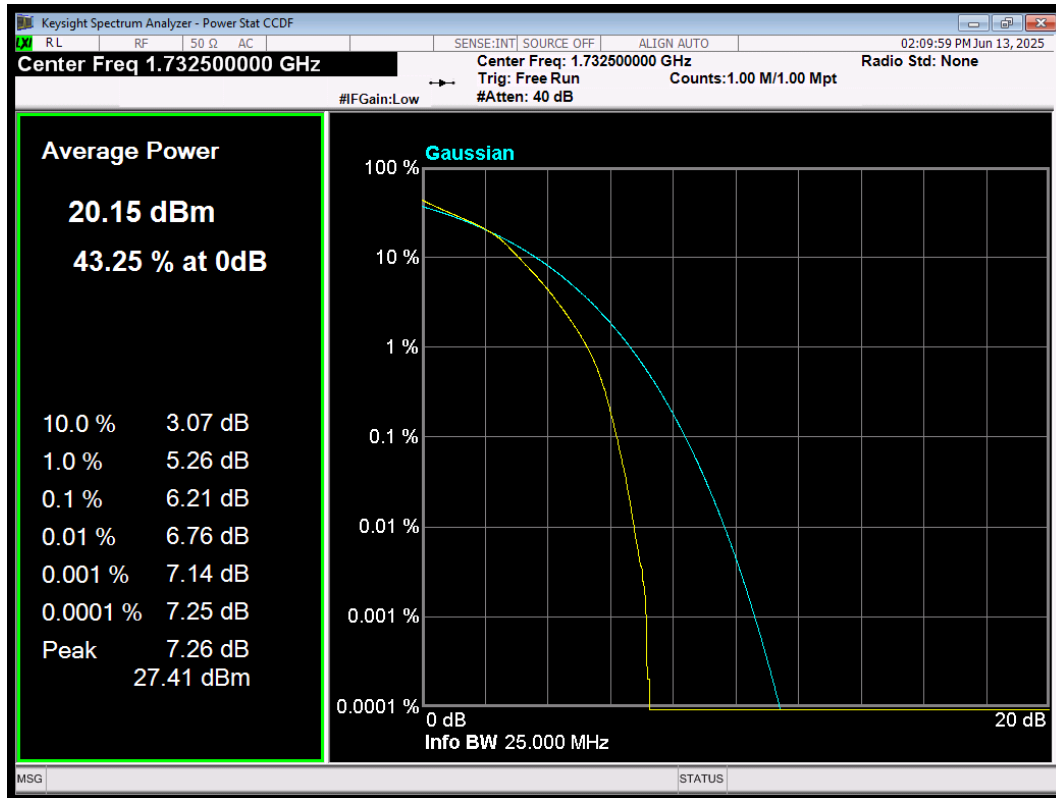
LTE Band 4 Peak-to-Average Ratio 16QAM BW=1.4MHz Channel=20175 RB Size=6 Position=#0



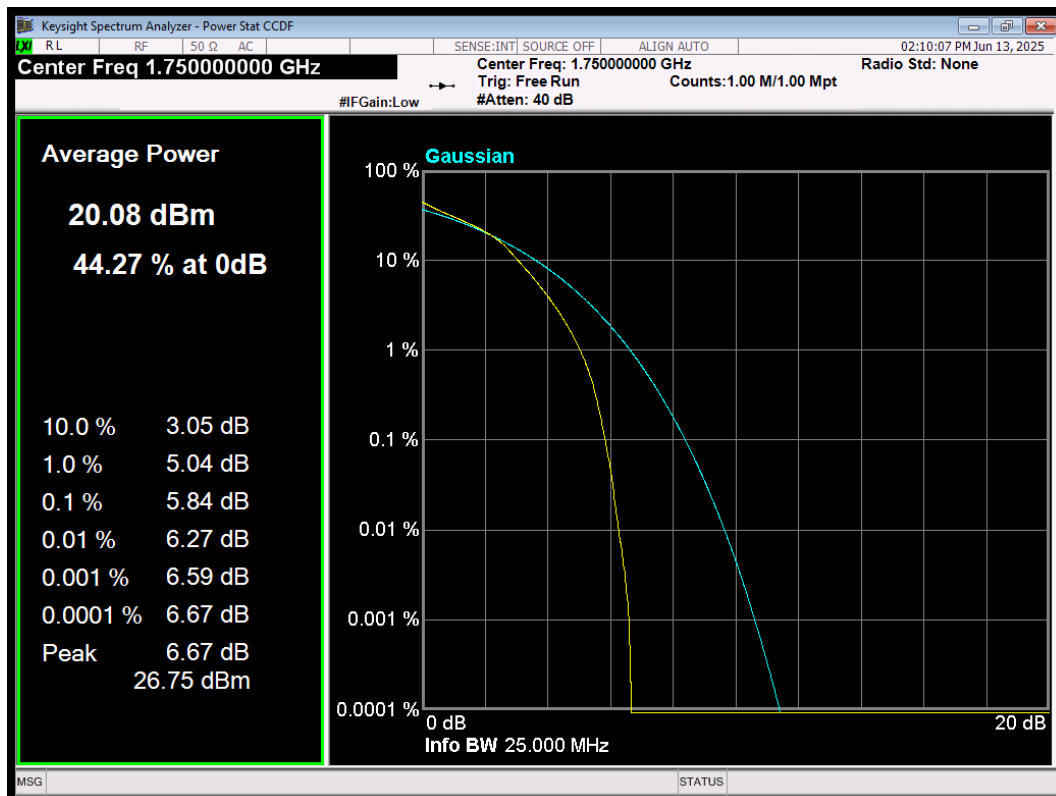
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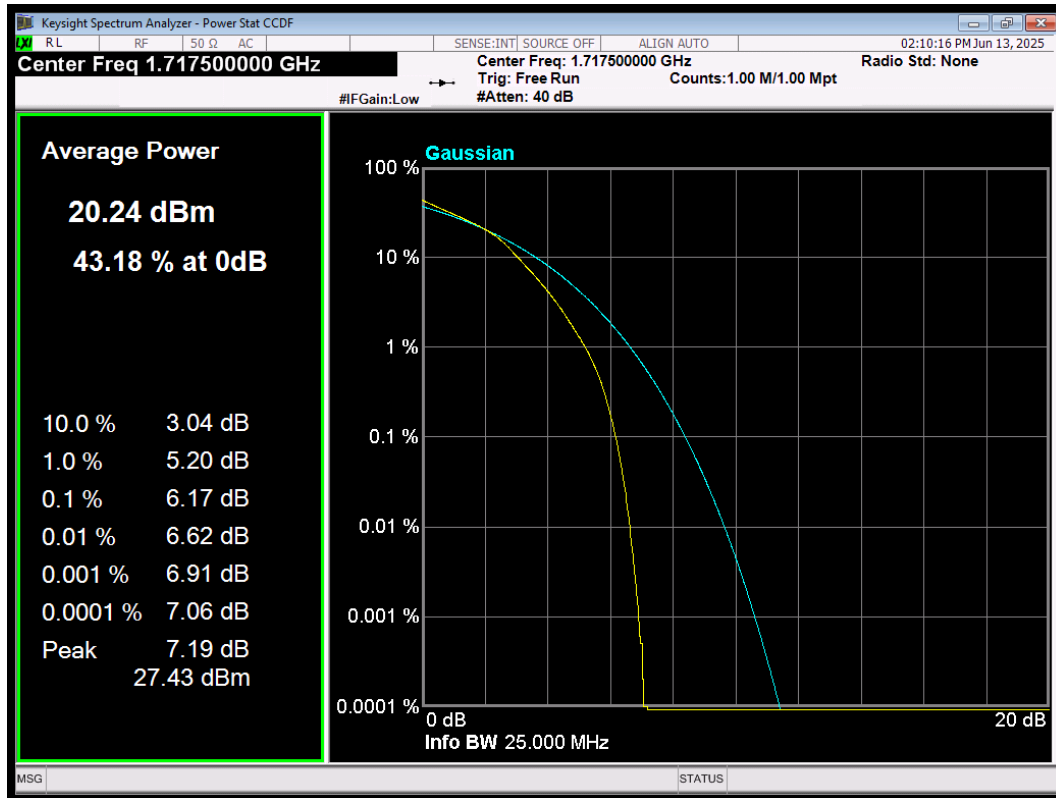
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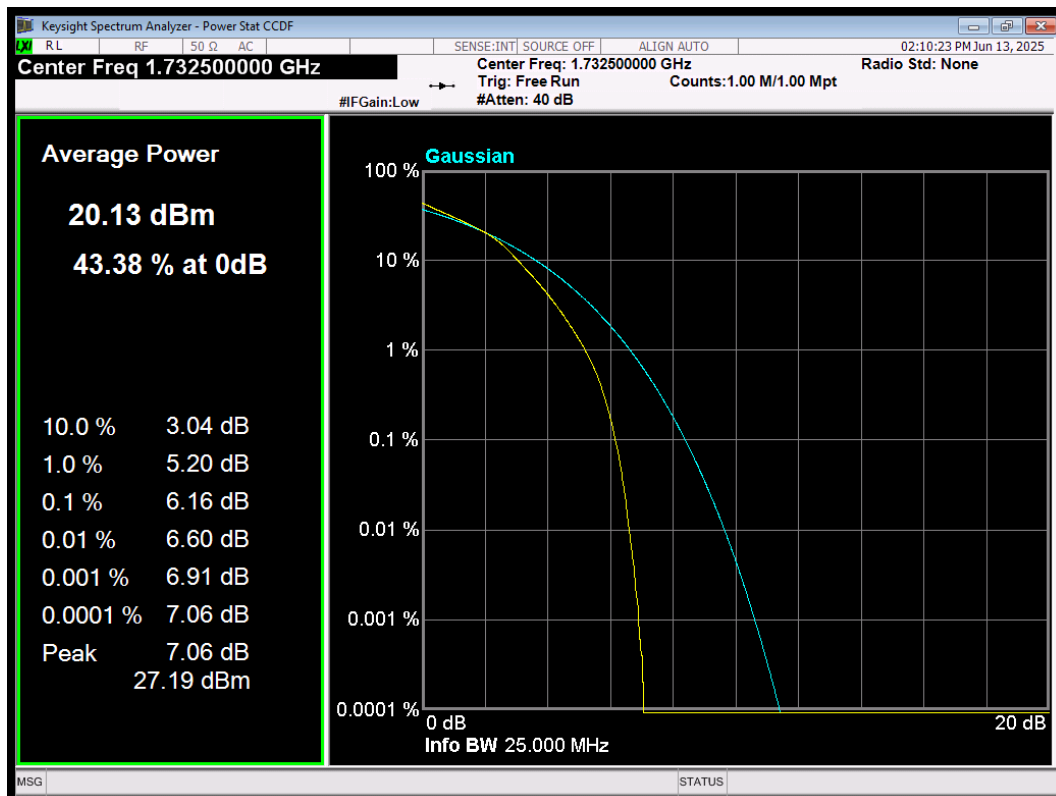
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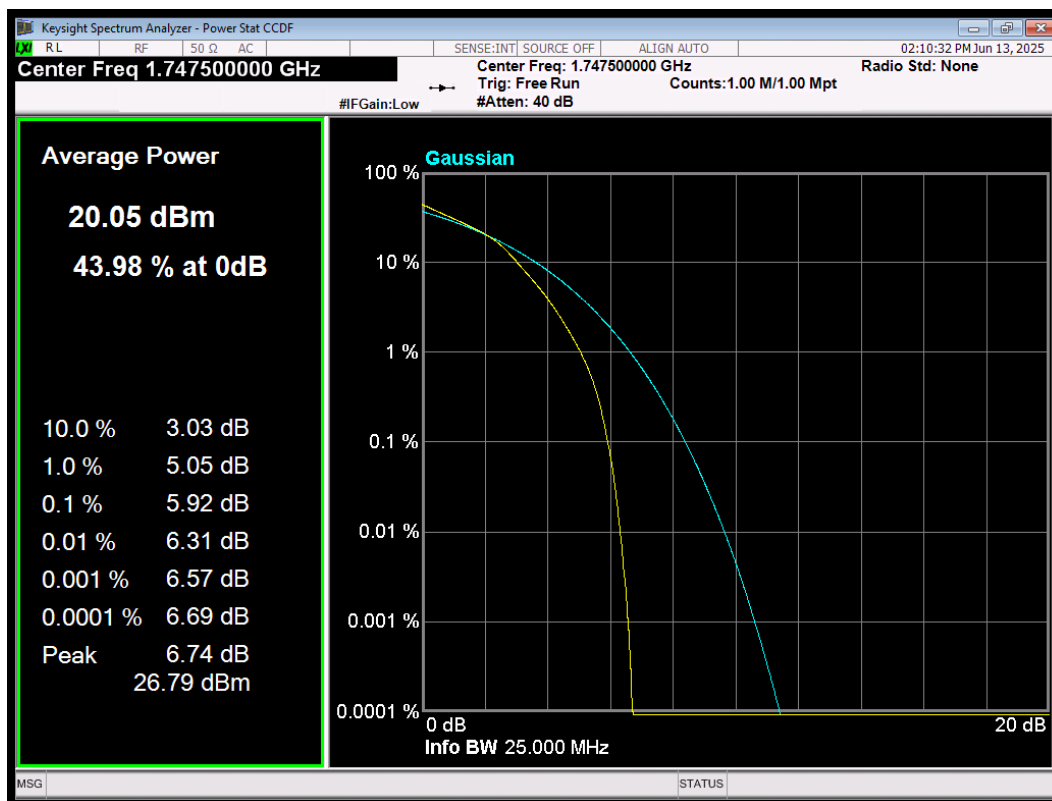
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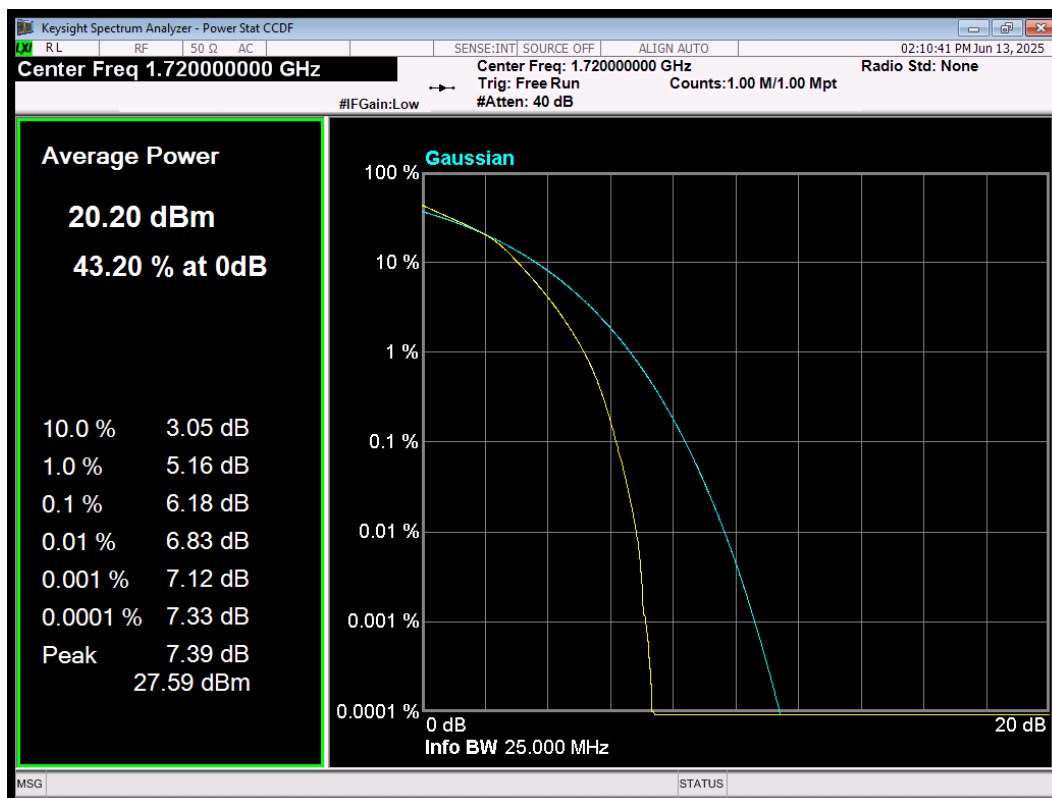
LTE Band 4 Peak-to-Average Ratio 16QAM BW=15MHz Channel=20025 RB Size=75 Position=#0



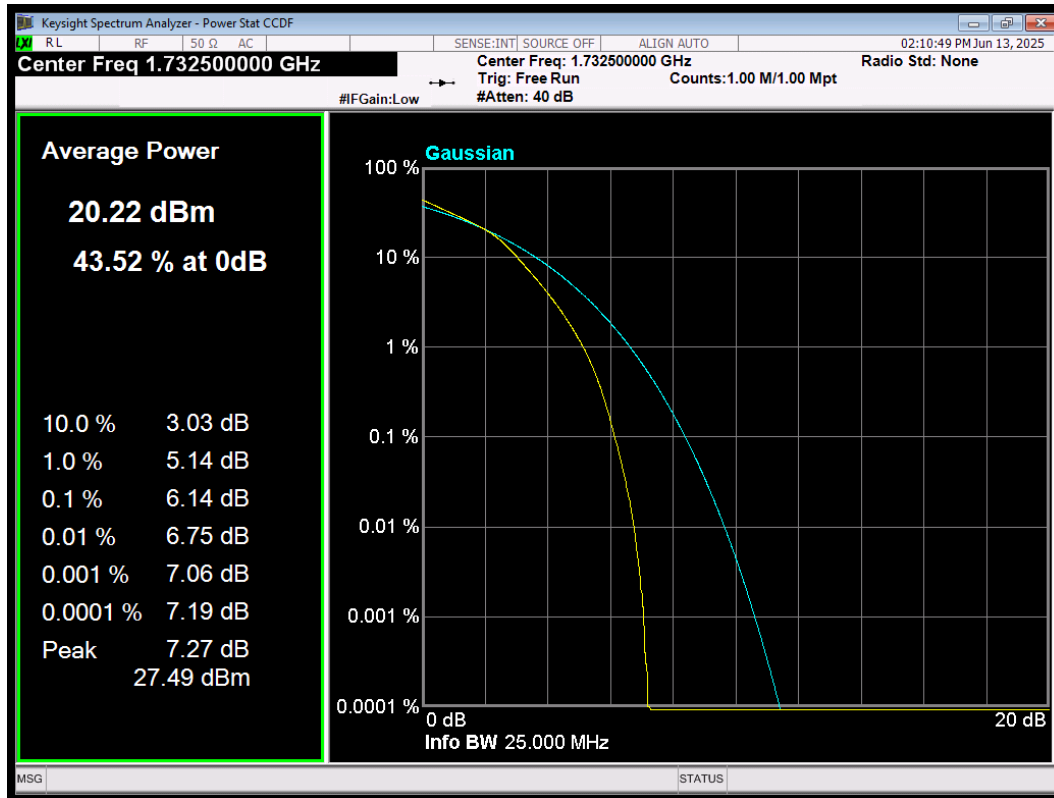
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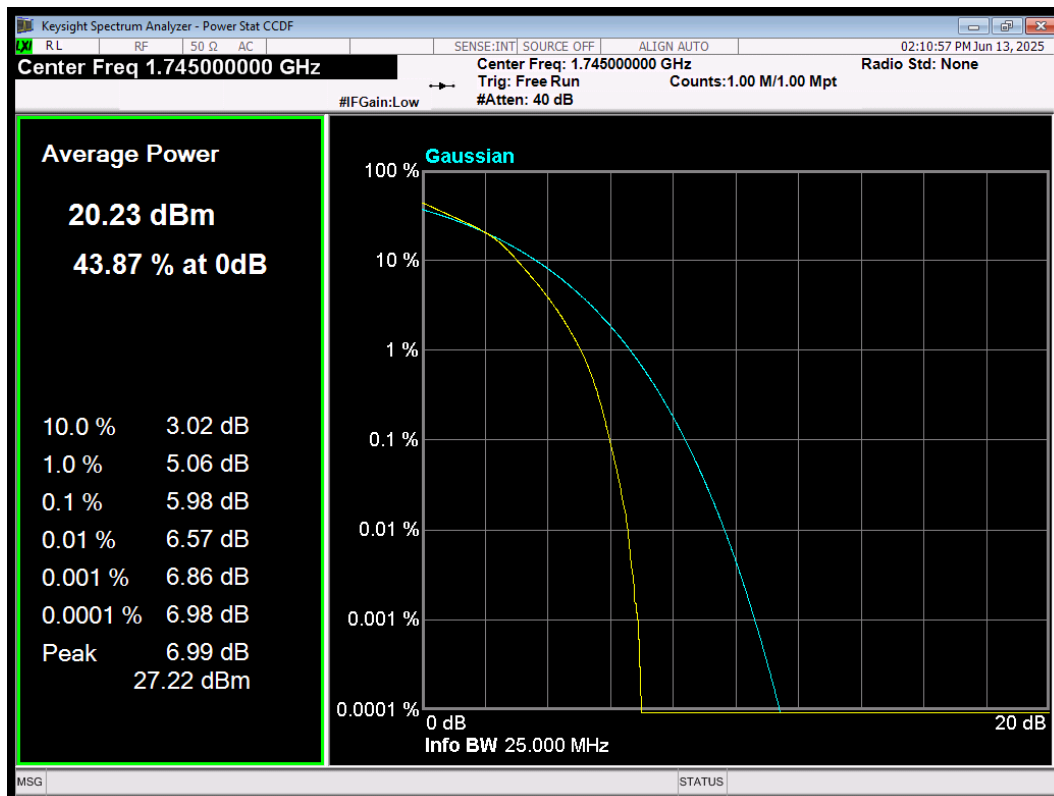
LTE Band 4 Peak-to-Average Ratio 16QAM BW=15MHz Channel=20325 RB Size=75 Position=#0



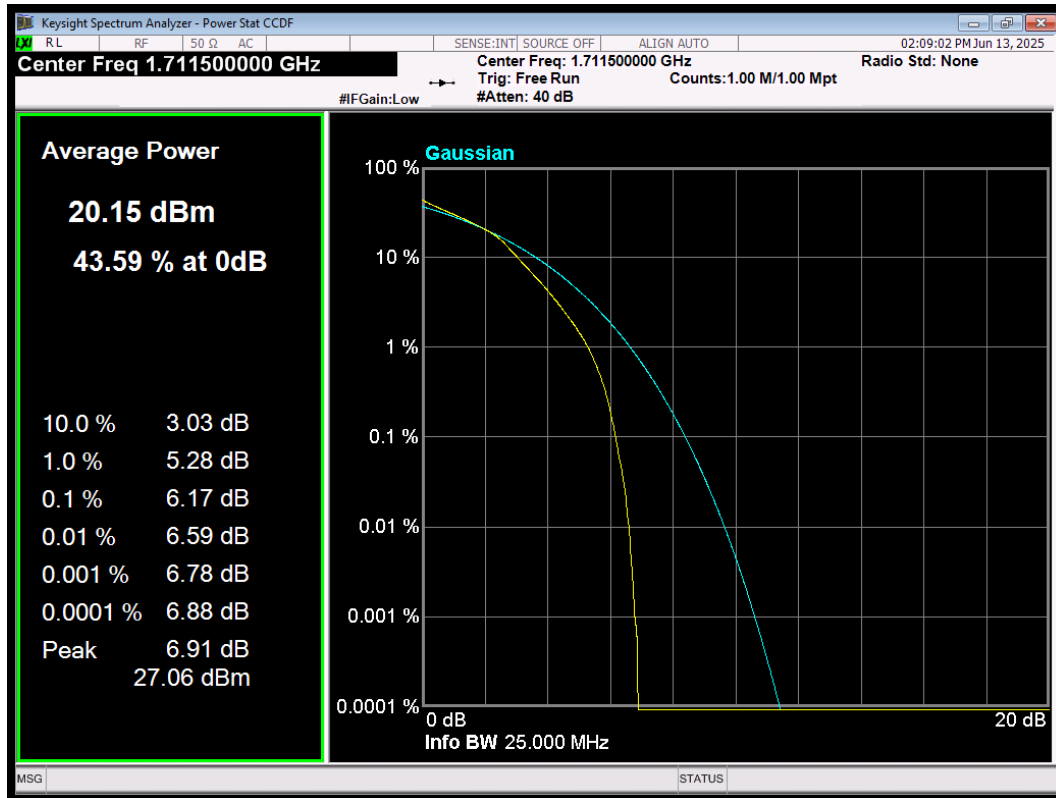
LTE Band 4 Peak-to-Average Ratio 16QAM BW=20MHz Channel=20050 RB Size=100 Position=#0



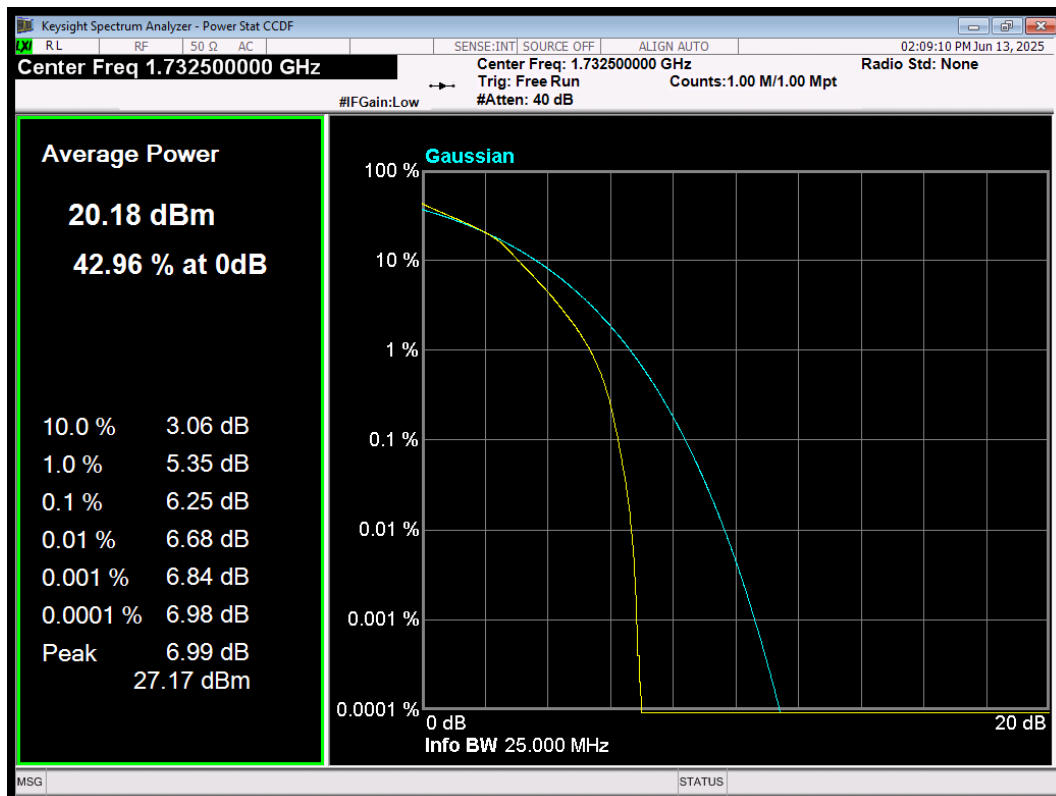
LTE Band 4 Peak-to-Average Ratio16QAM BW=20MHz Channel=20175 RB Size=100 Position=#0



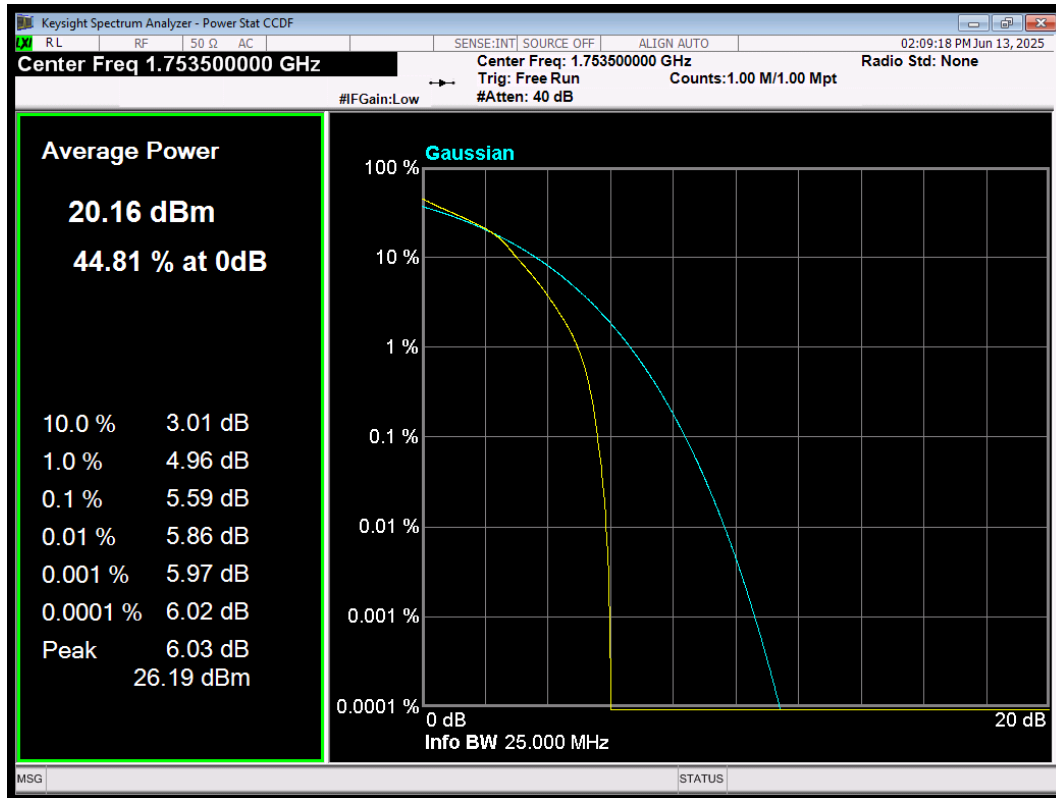
LTE Band 4 Peak-to-Average Ratio16QAM BW=20MHz Channel=20300 RB Size=100 Position=#0



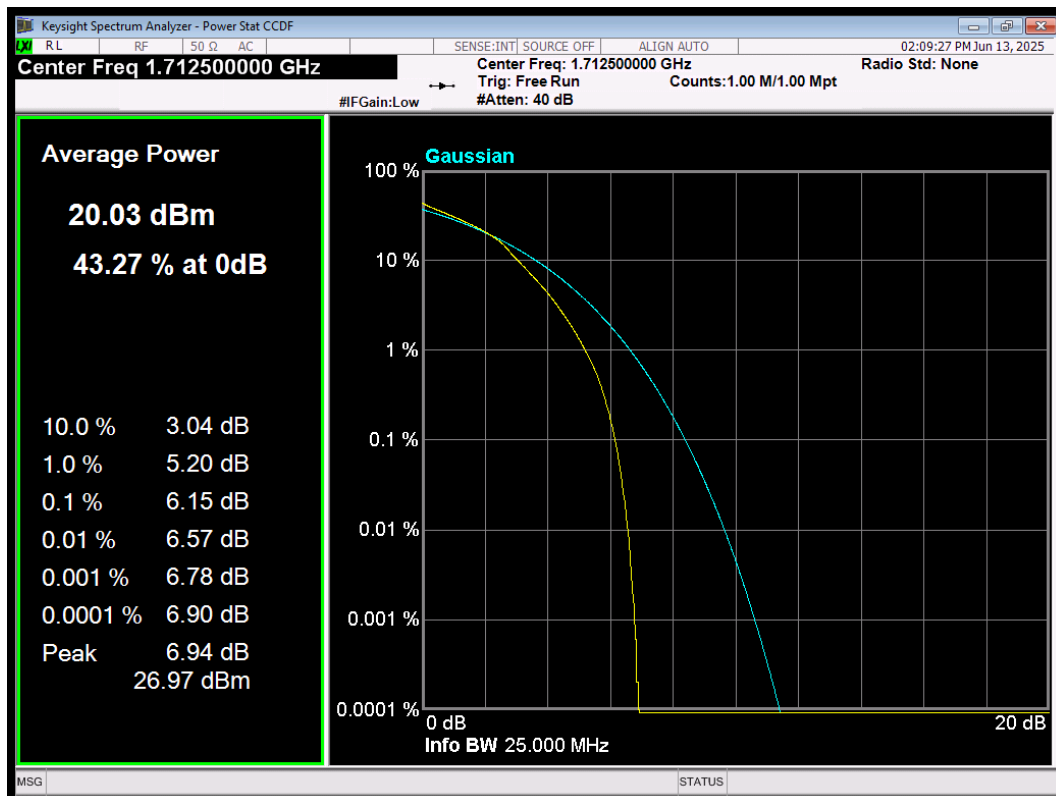
LTE Band 4 Peak-to-Average Ratio 16QAM BW=3MHz Channel=19965 RB Size=15 Position=#0



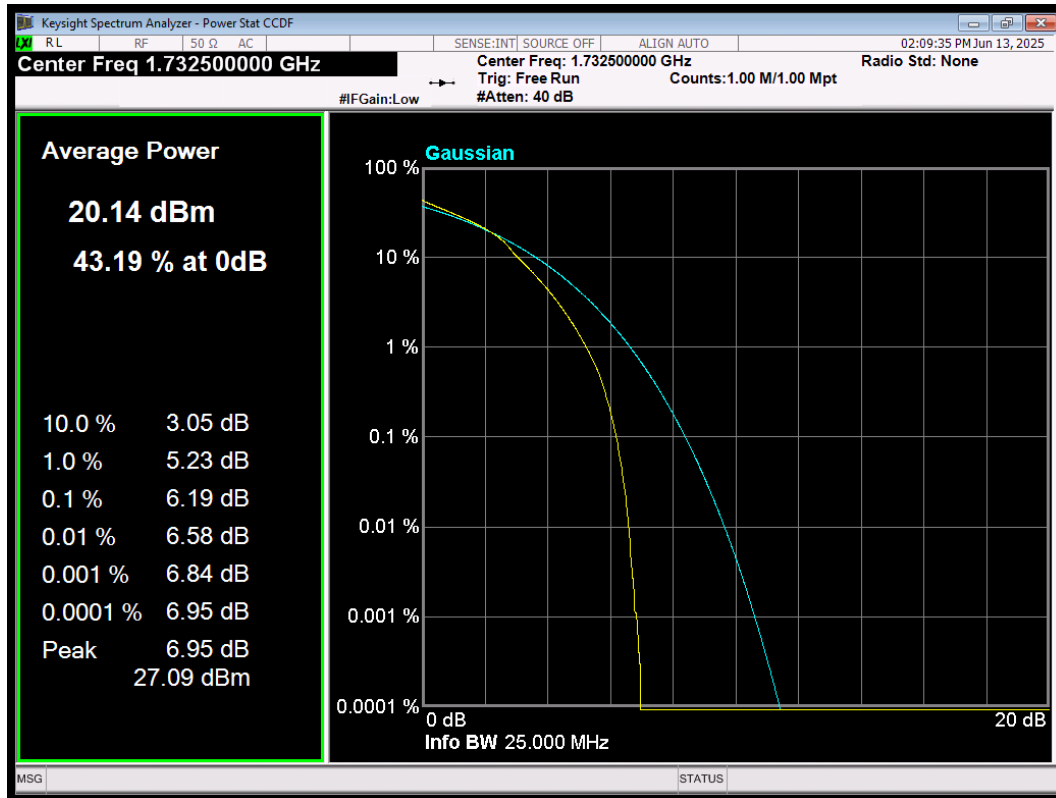
LTE Band 4 Peak-to-Average Ratio 16QAM BW=3MHz Channel=20175 RB Size=15 Position=#0



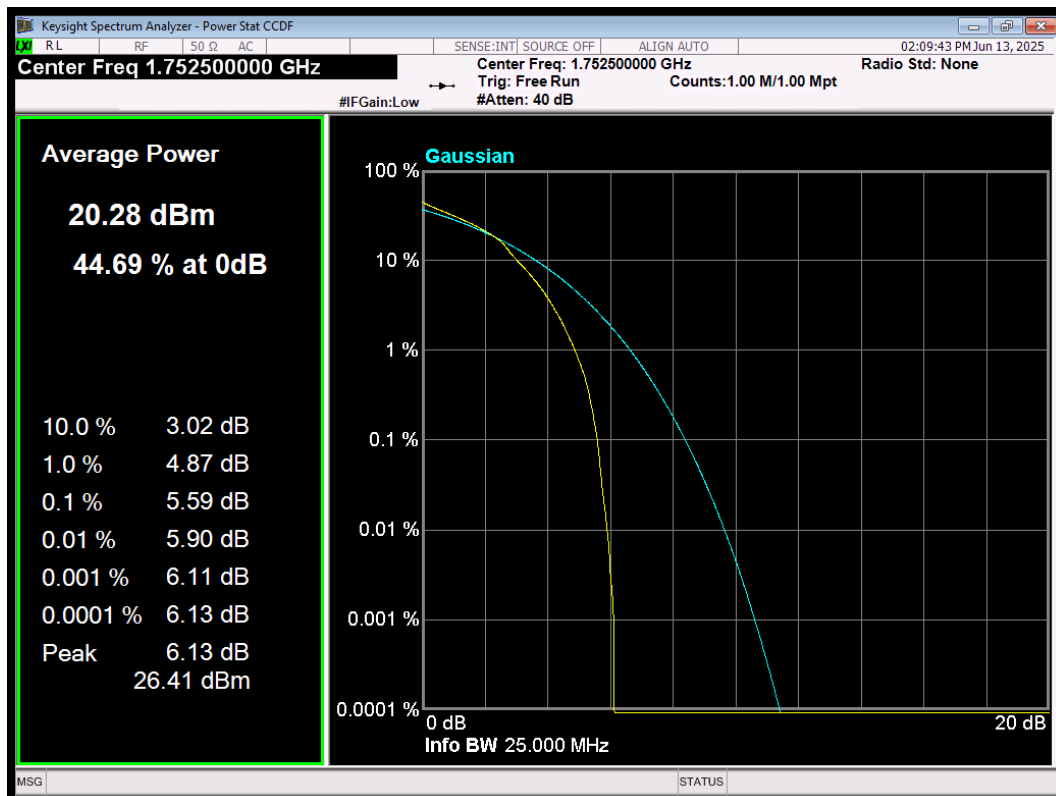
LTE Band 4 Peak-to-Average Ratio 16QAM BW=3MHz Channel=20385 RB Size=15 Position=#0



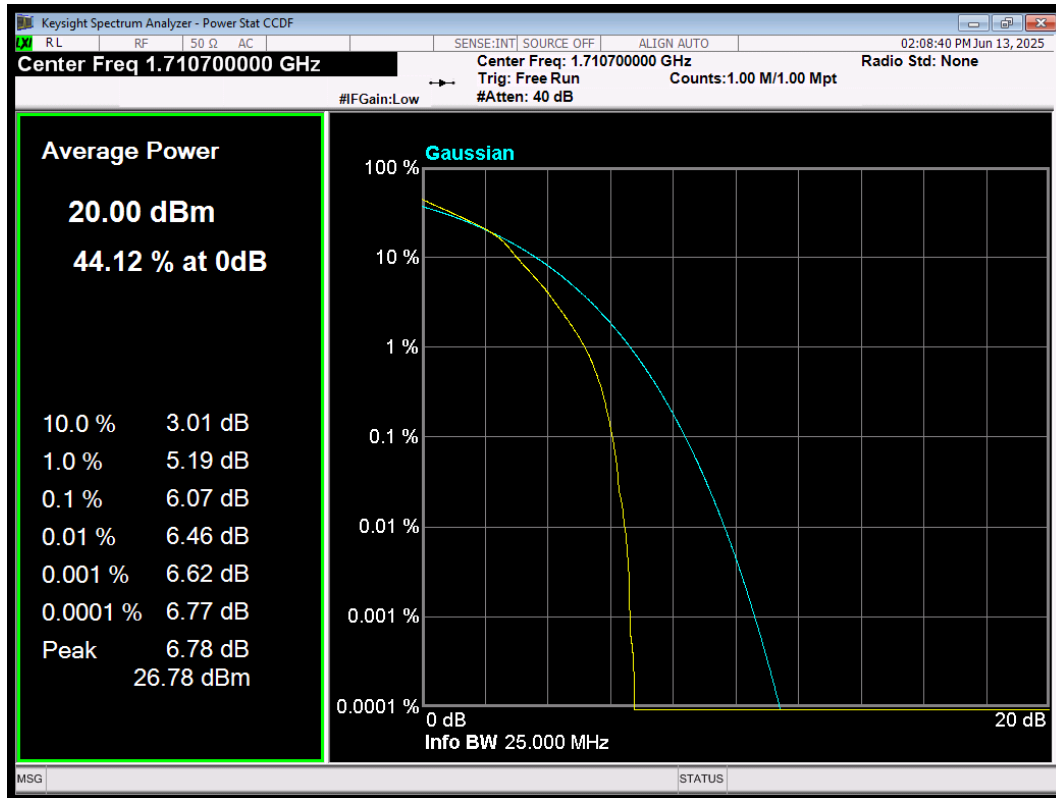
LTE Band 4 Peak-to-Average Ratio 16QAM BW=5MHz Channel=19975 RB Size=25 Position=#0



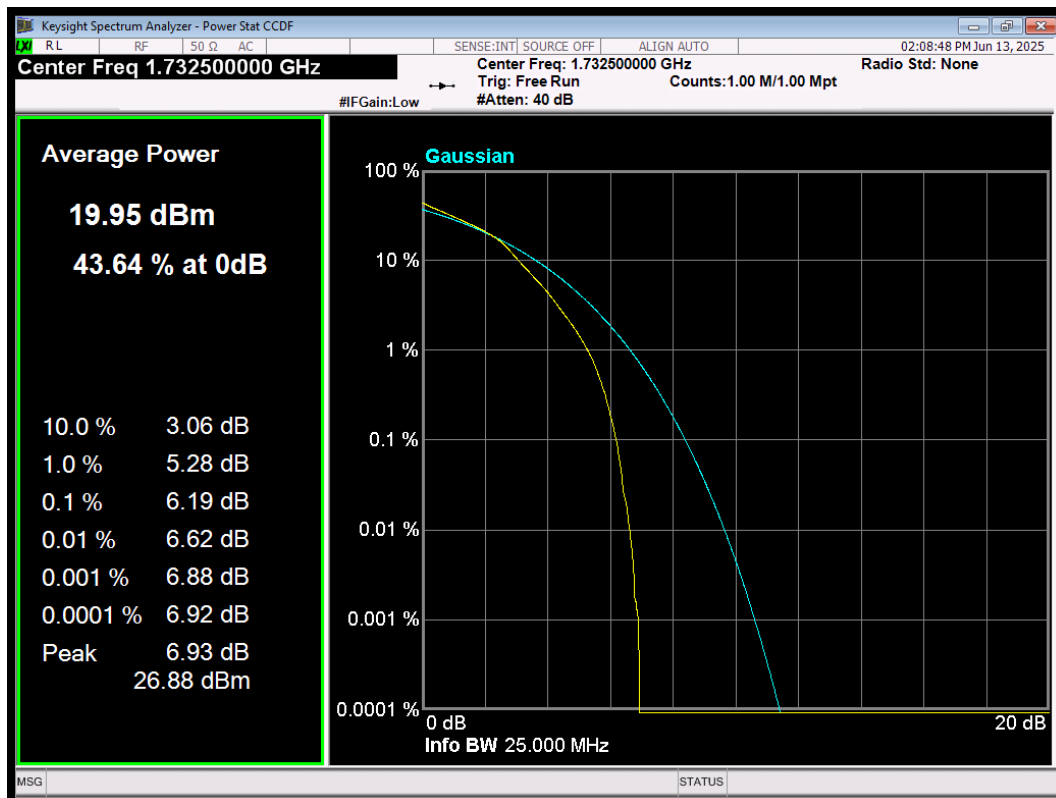
LTE Band 4 Peak-to-Average Ratio 16QAM BW=5MHz Channel=20175 RB Size=25 Position=#0



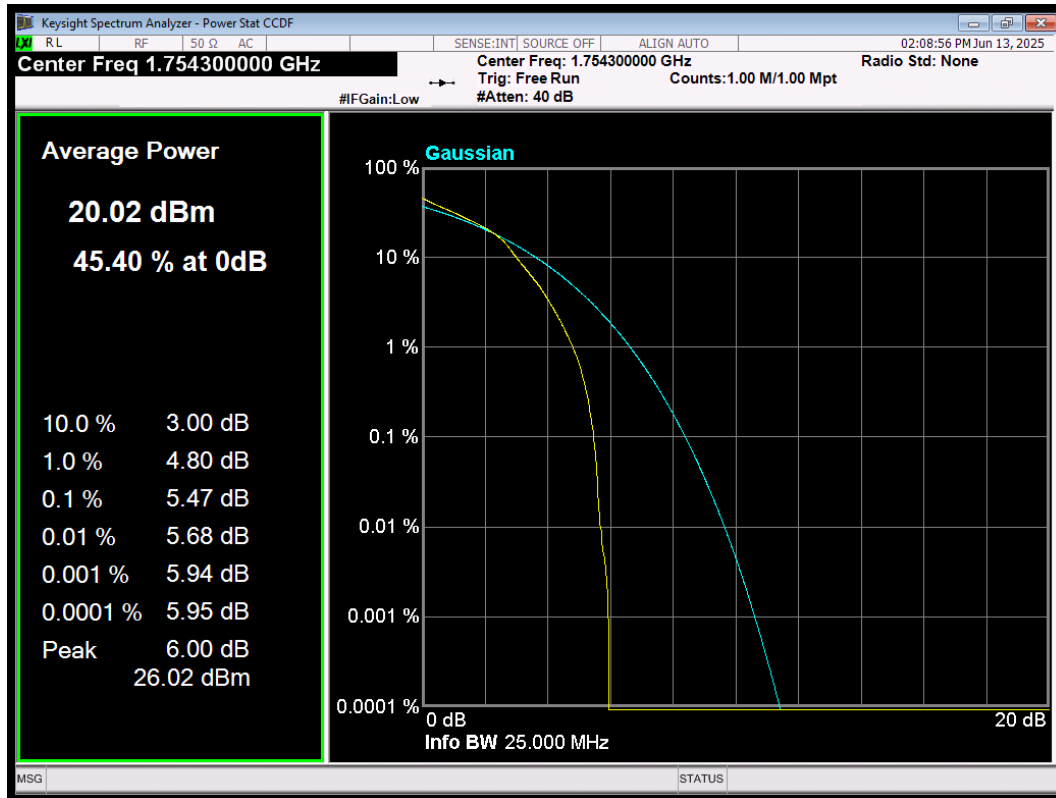
LTE Band 4 Peak-to-Average Ratio 16QAM BW=5MHz Channel=20375 RB Size=25 Position=#0



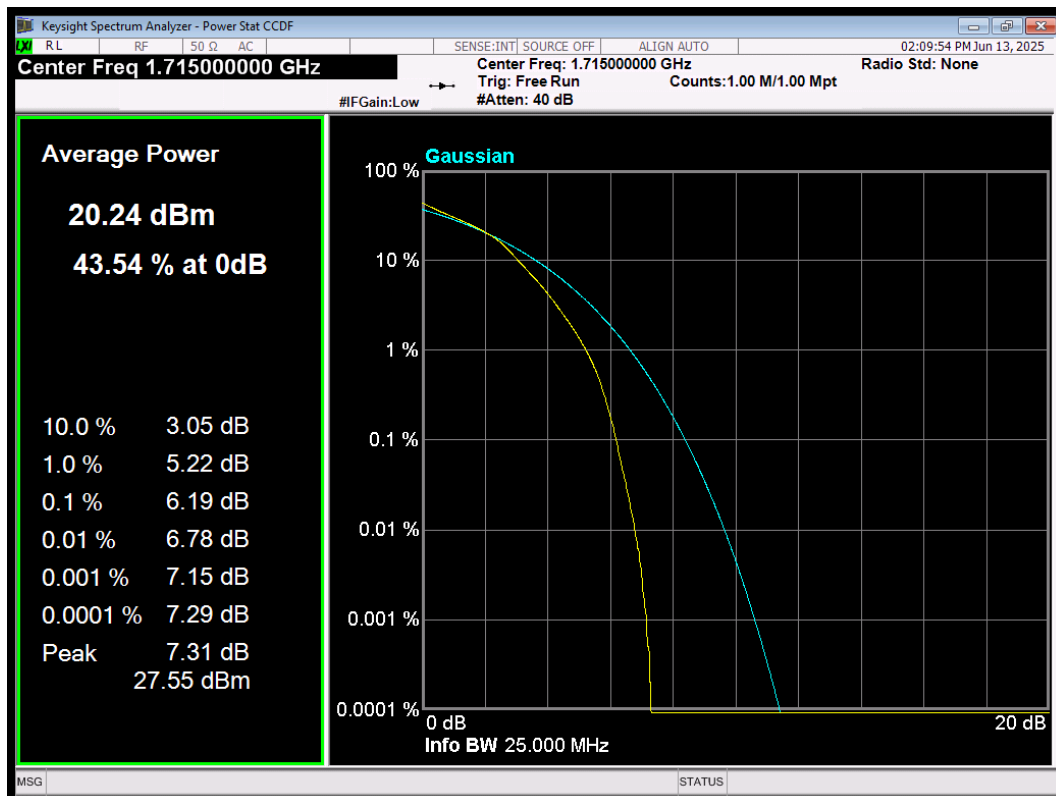
LTE Band 4 Peak-to-Average Ratio 64QAM BW=1.4MHz Channel=19957 RB Size=6 Position=#0



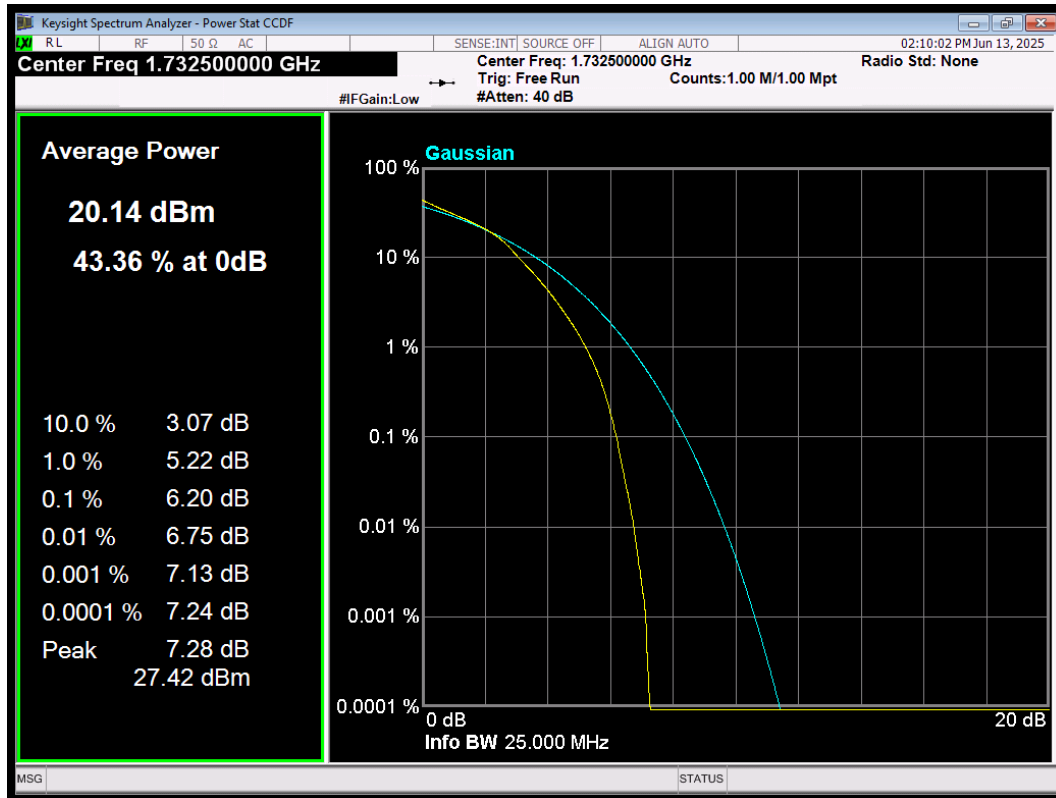
LTE Band 4 Peak-to-Average Ratio 64QAM BW=1.4MHz Channel=20175 RB Size=6 Position=#0



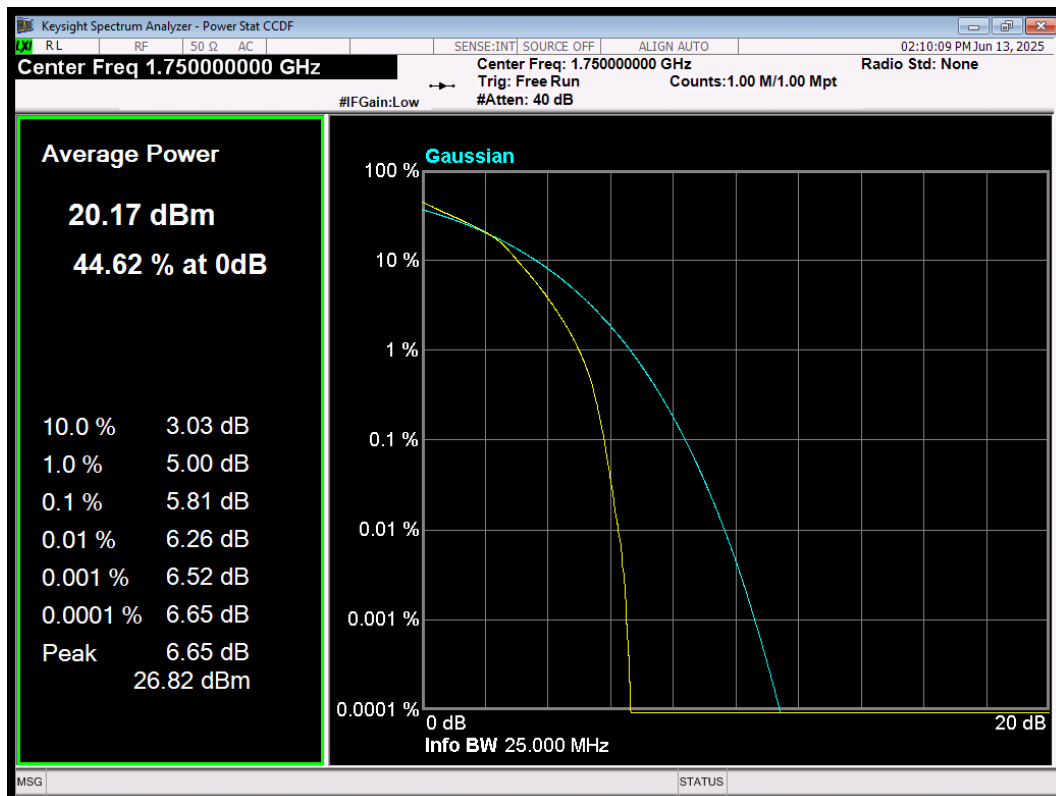
LTE Band 4 Peak-to-Average Ratio 64QAM BW=1.4MHz Channel=20393 RB Size=6 Position=#0



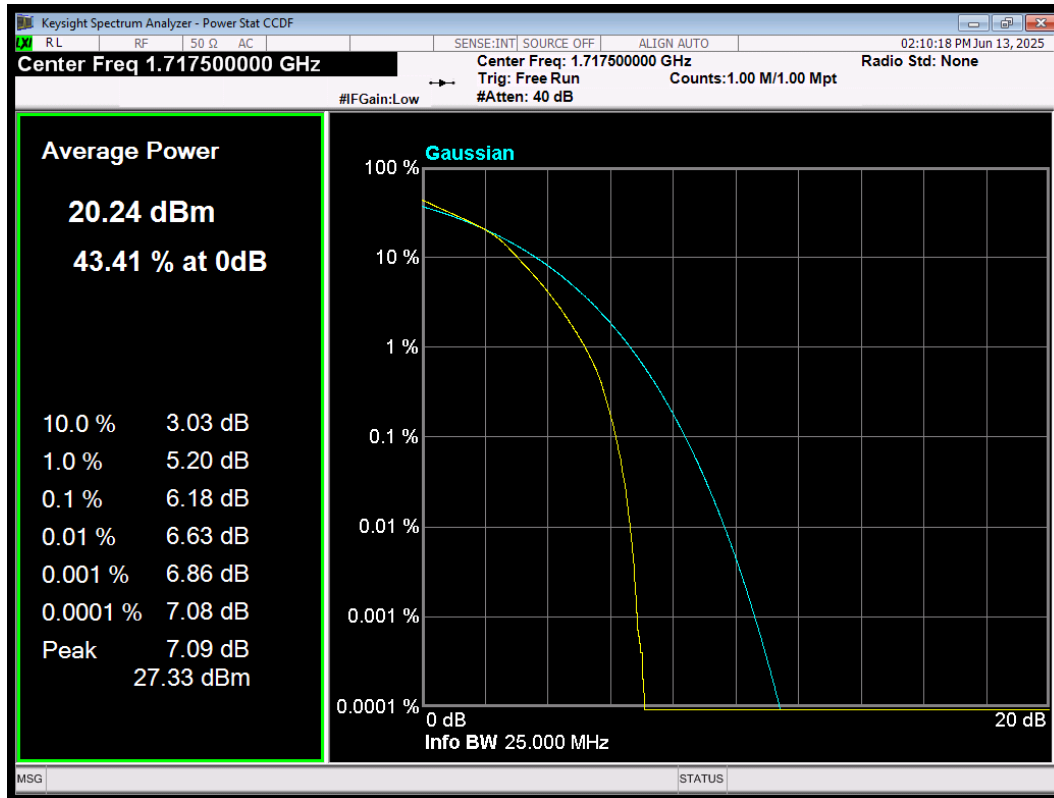
LTE Band 4 Peak-to-Average Ratio 64QAM BW=10MHz Channel=20000 RB Size=50 Position=#0



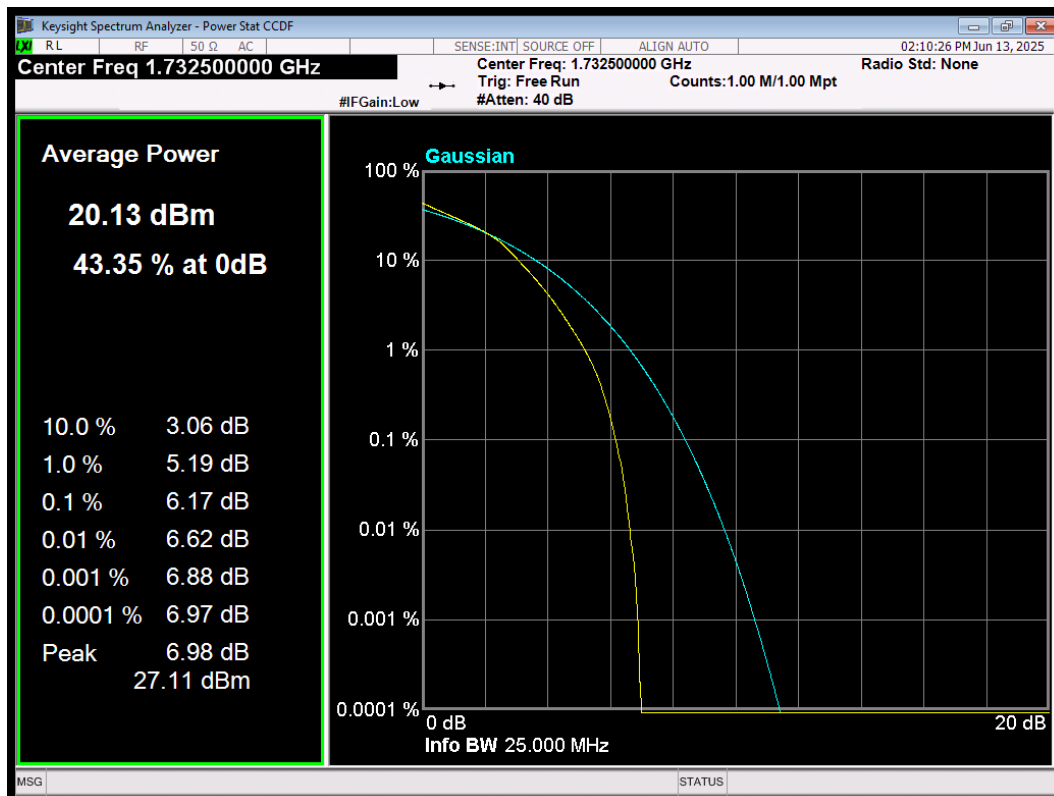
LTE Band 4 Peak-to-Average Ratio64QAM BW=10MHz Channel=20175 RB Size=50 Position=#0



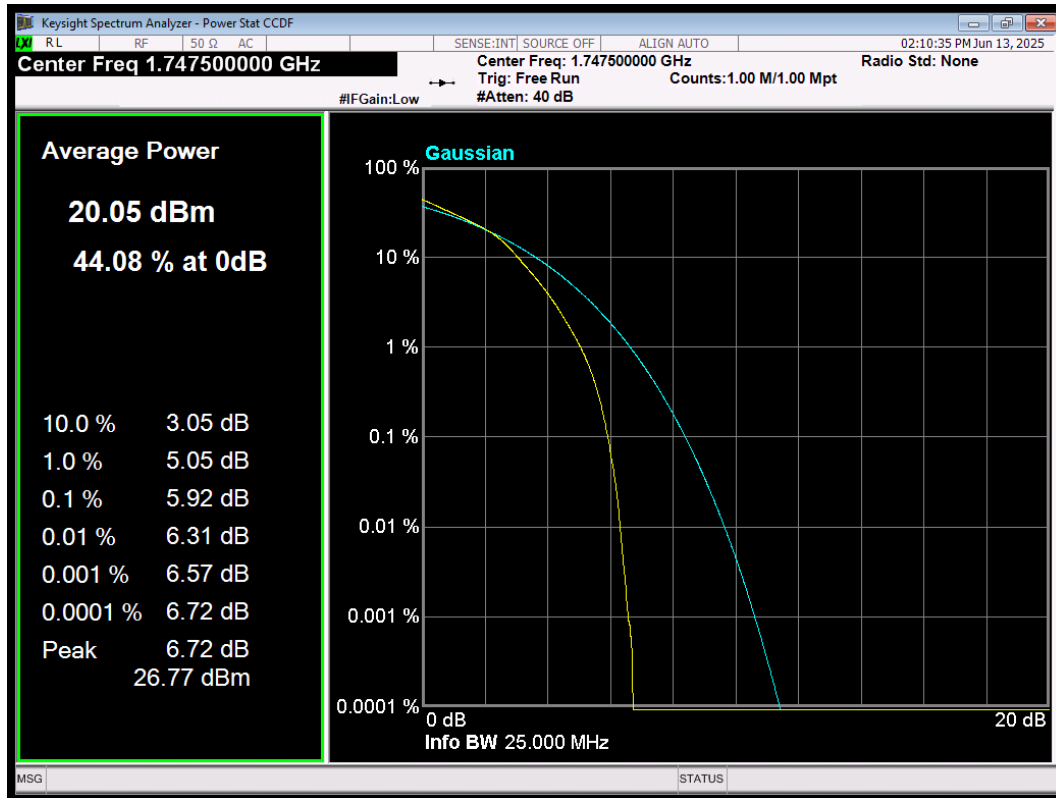
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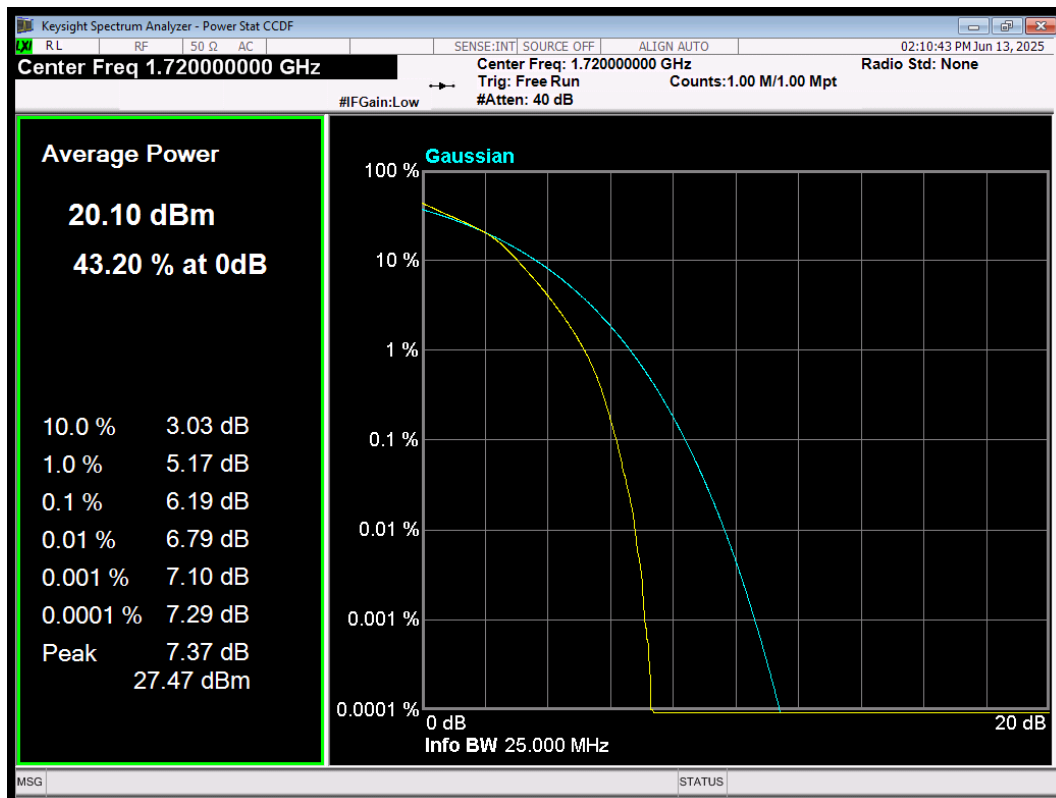
LTE Band 4 Peak-to-Average Ratio64QAM BW=15MHz Channel=20025 RB Size=75 Position=#0



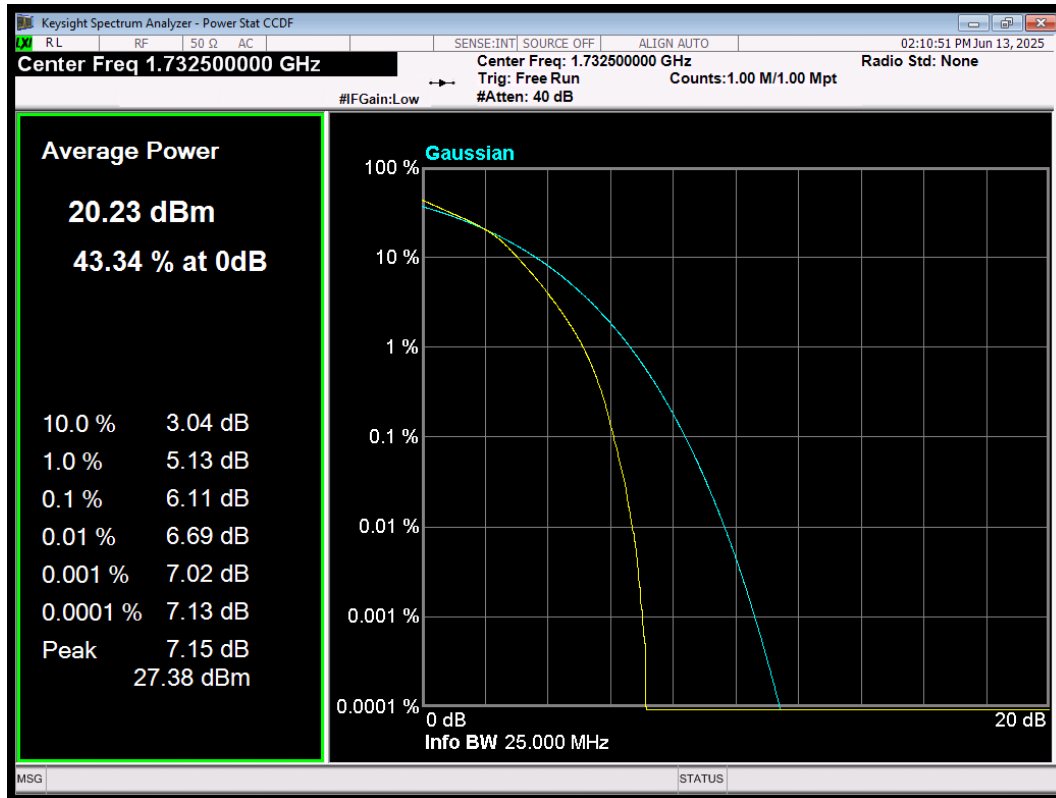
LTE Band 4 Peak-to-Average Ratio64QAM BW=15MHz Channel=20175 RB Size=75 Position=#0



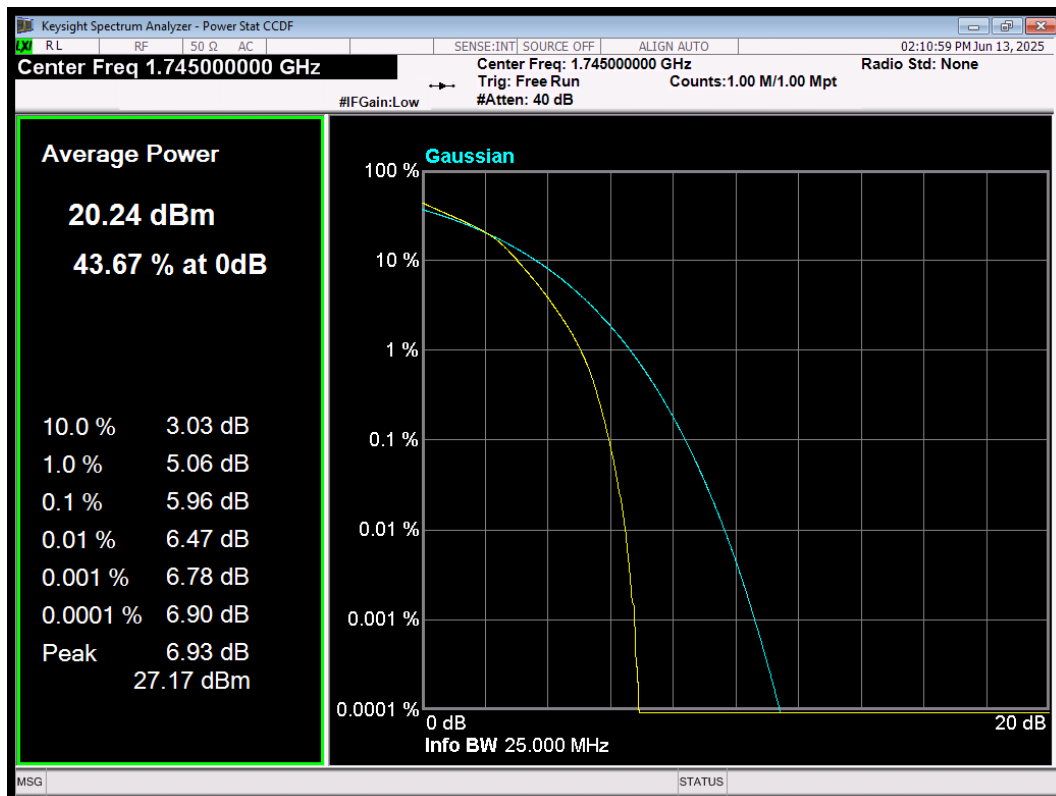
LTE Band 4 Peak-to-Average Ratio 64QAM BW=15MHz Channel=20325 RB Size=75 Position=#0



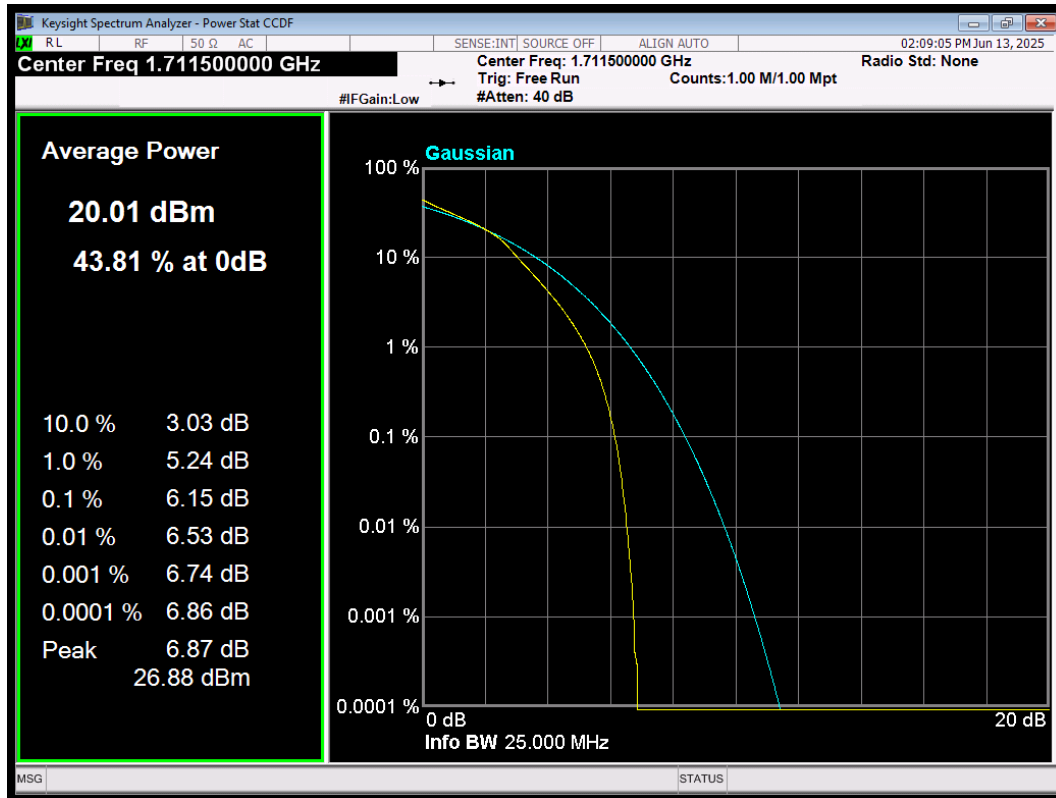
LTE Band 4 Peak-to-Average Ratio 64QAM BW=20MHz Channel=20050 RB Size=100 Position=#0



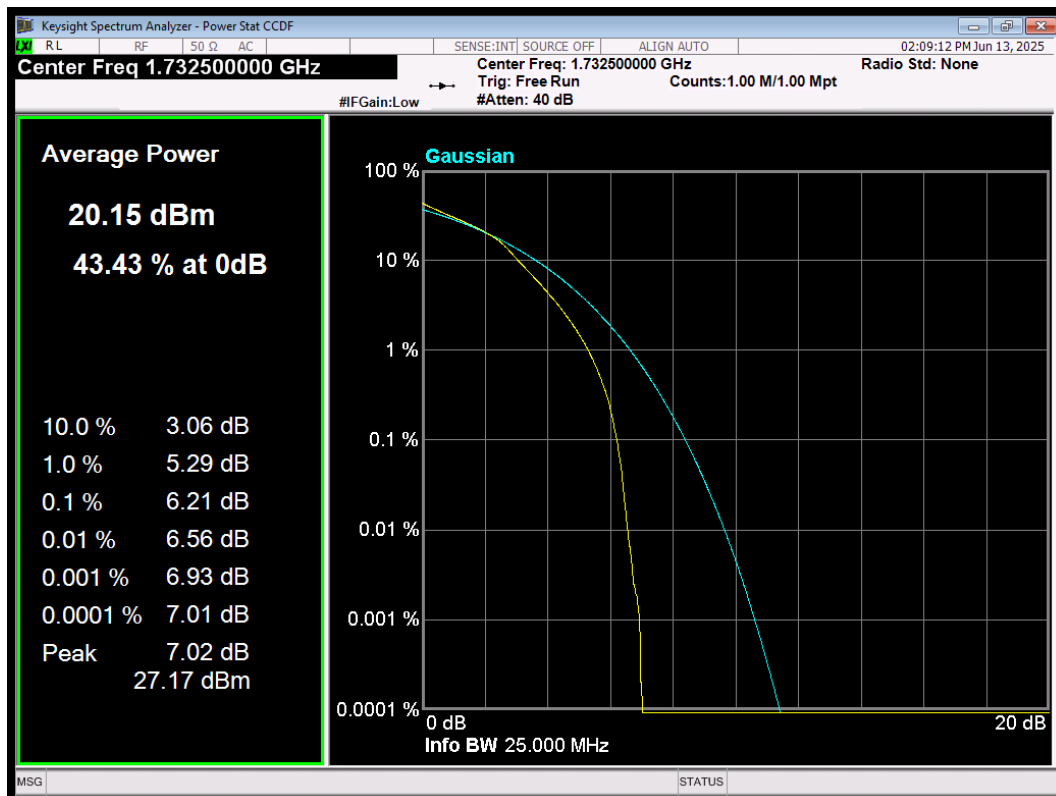
LTE Band 4 Peak-to-Average Ratio 64QAM BW=20MHz Channel=20175 RB Size=100 Position=#0



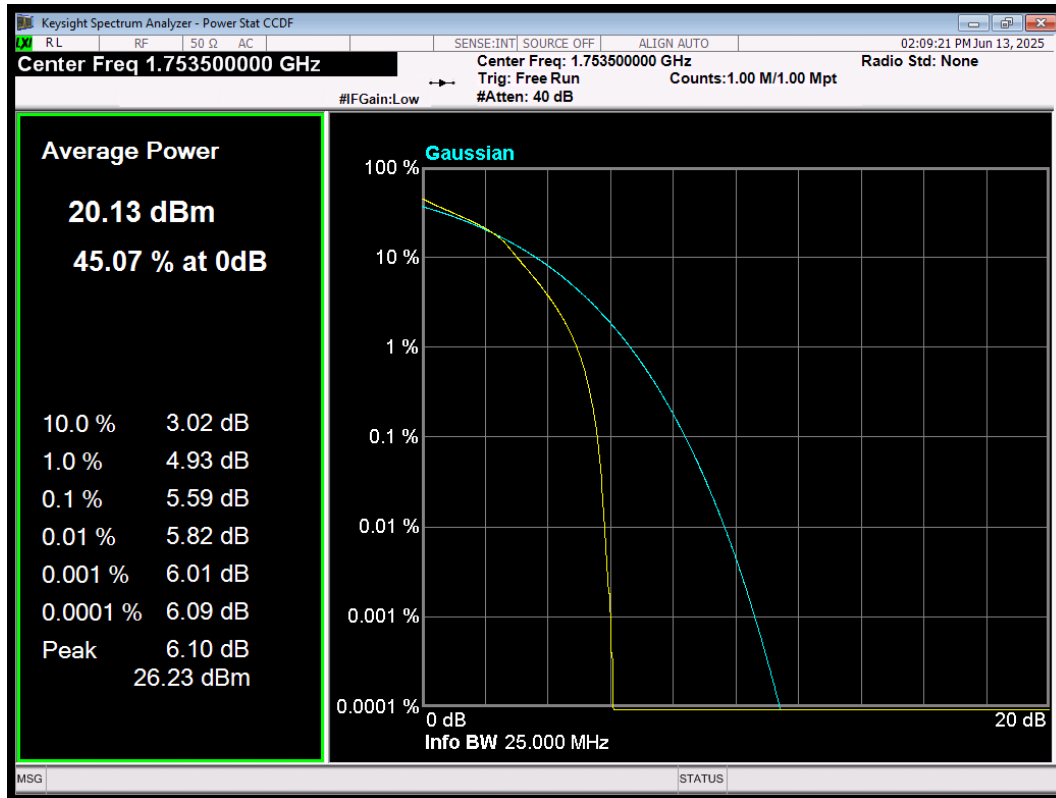
LTE Band 4 Peak-to-Average Ratio 64QAM BW=20MHz Channel=20300 RB Size=100 Position=#0



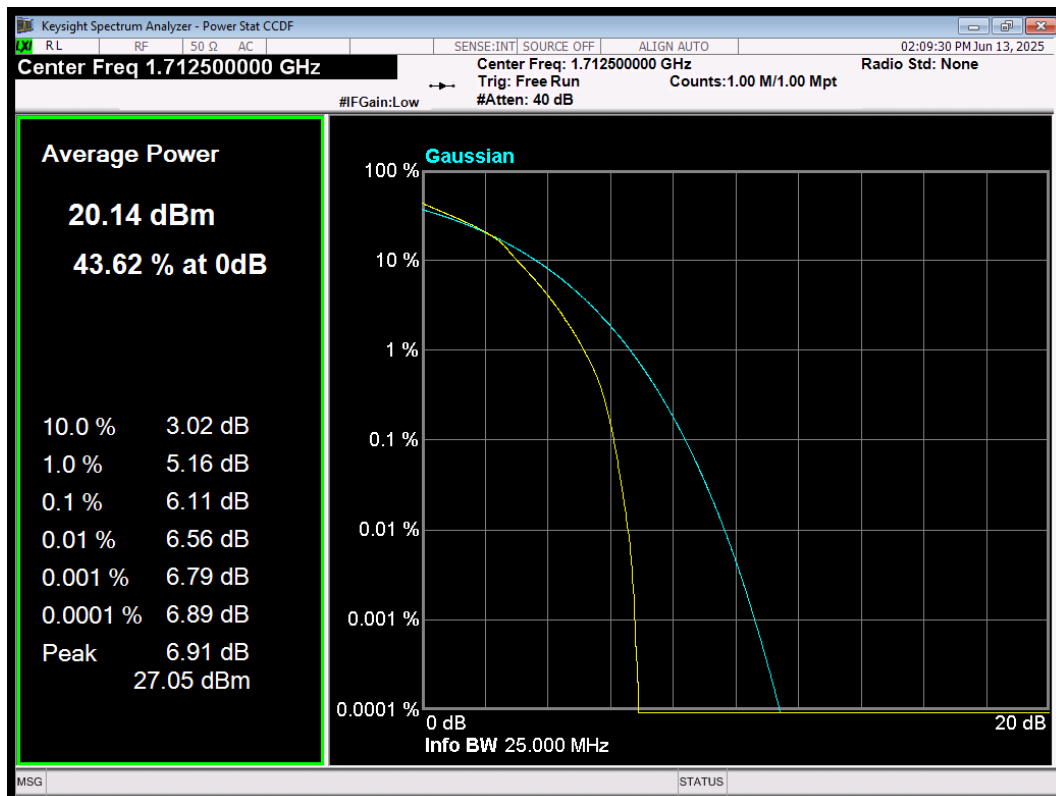
LTE Band 4 Peak-to-Average Ratio 64QAM BW=3MHz Channel=19965 RB Size=15 Position=#0



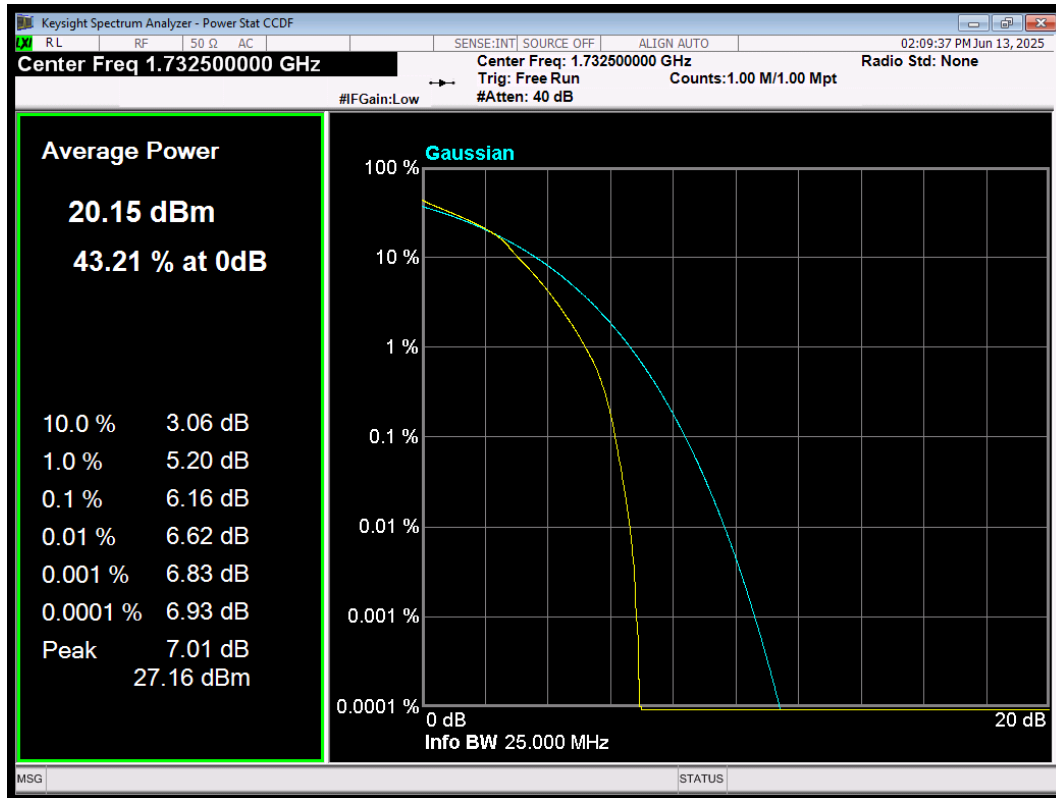
LTE Band 4 Peak-to-Average Ratio 64QAM BW=3MHz Channel=20175 RB Size=15 Position=#0



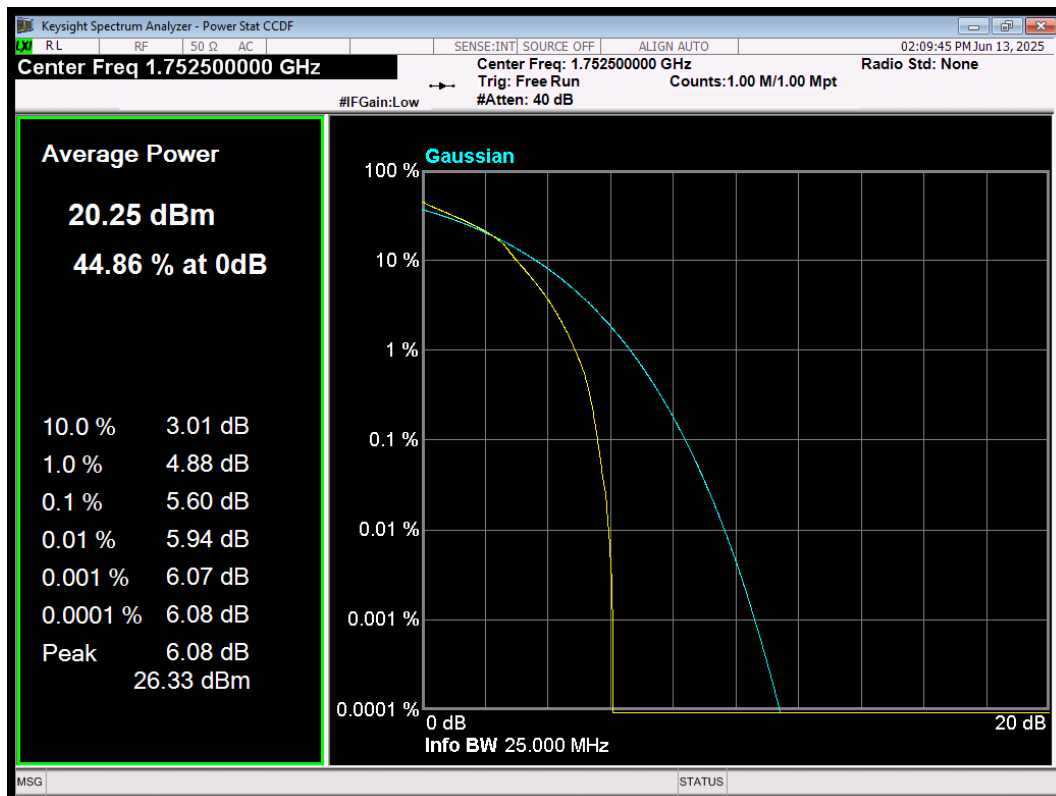
LTE Band 4 Peak-to-Average Ratio 64QAM BW=3MHz Channel=20385 RB Size=15 Position=#0



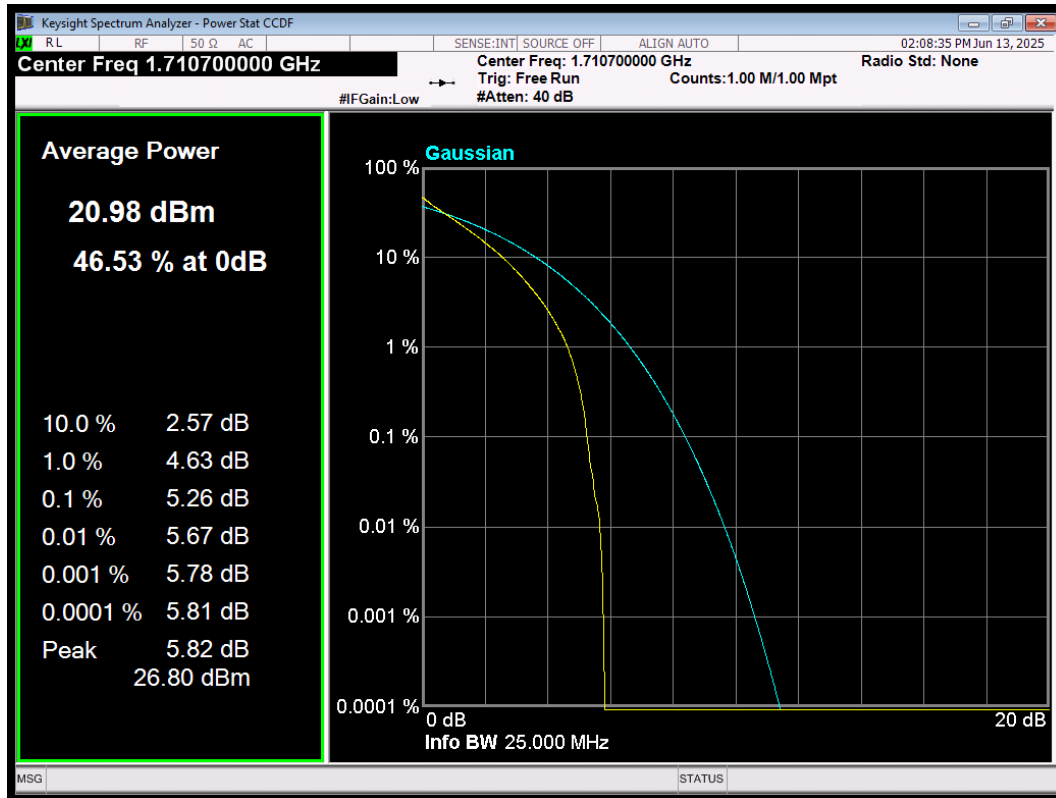
LTE Band 4 Peak-to-Average Ratio 64QAM BW=5MHz Channel=19975 RB Size=25 Position=#0



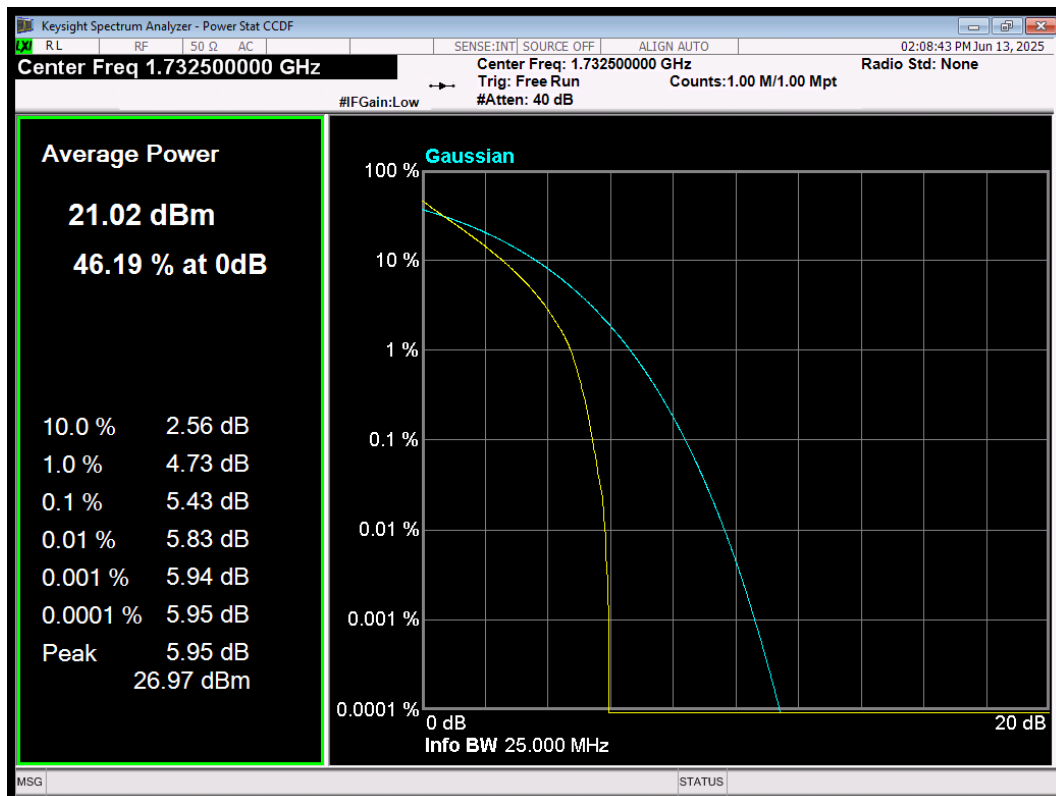
LTE Band 4 Peak-to-Average Ratio 64QAM BW=5MHz Channel=20175 RB Size=25 Position=#0



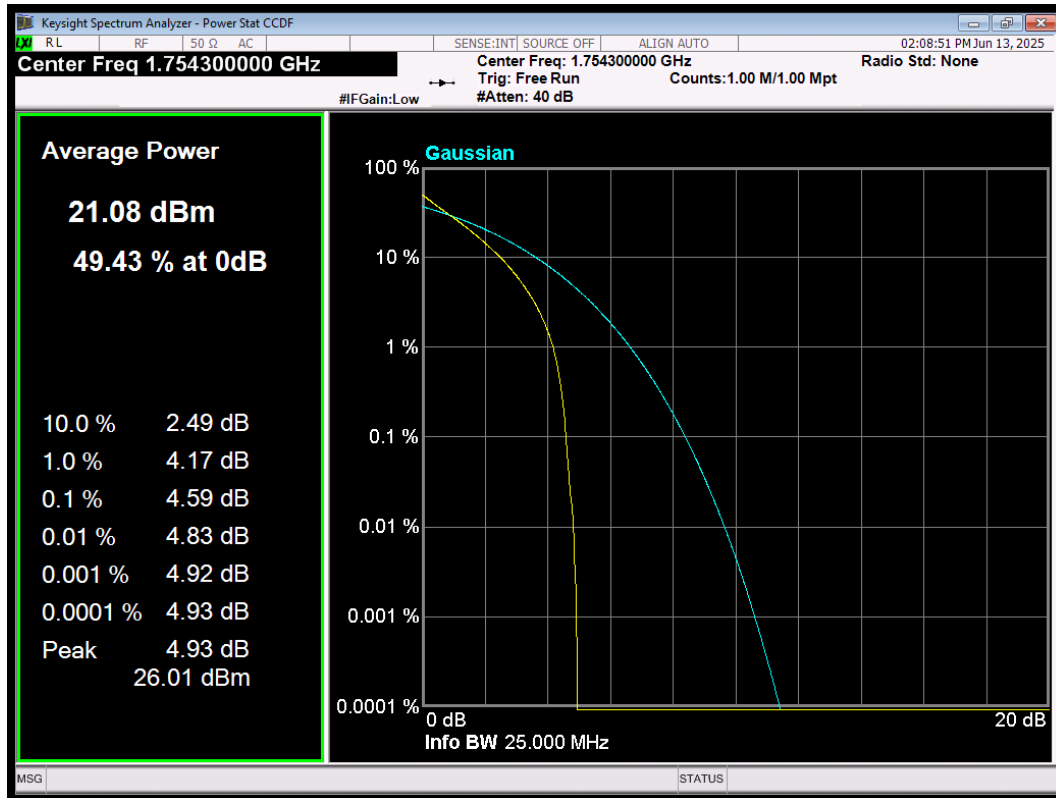
LTE Band 4 Peak-to-Average Ratio 64QAM BW=5MHz Channel=20375 RB Size=25 Position=#0



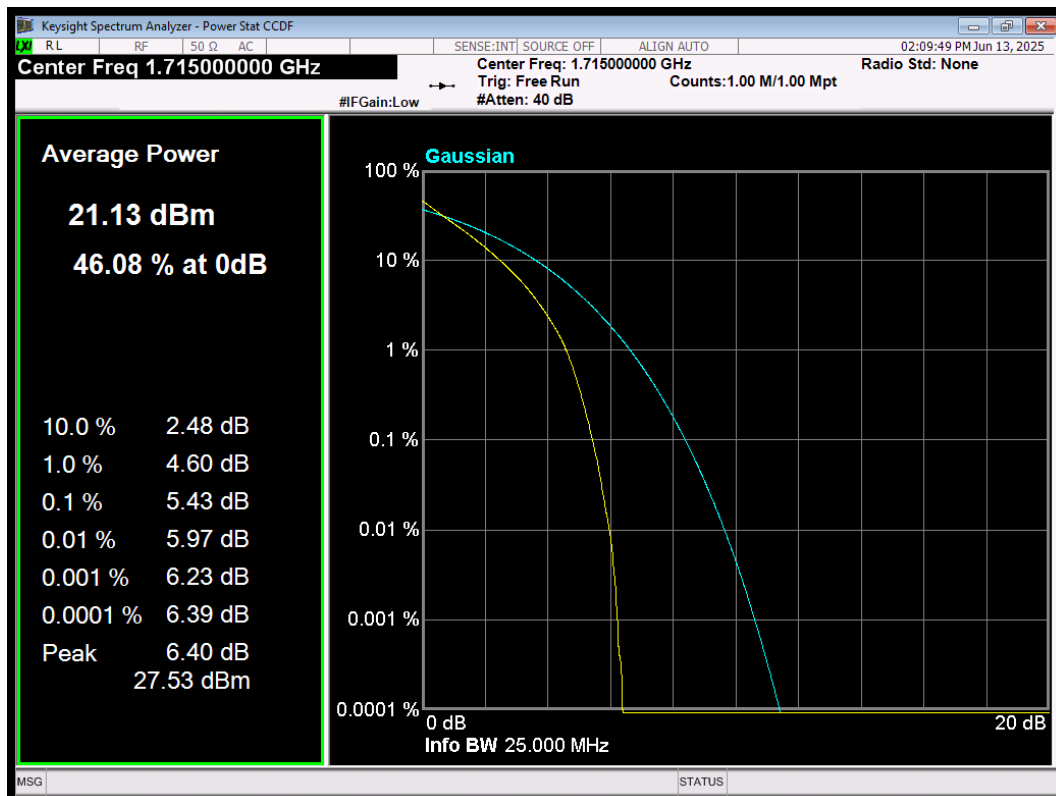
LTE Band 4 Peak-to-Average Ratio QPSK BW=1.4MHz Channel=19957 RB Size=6 Position=#0



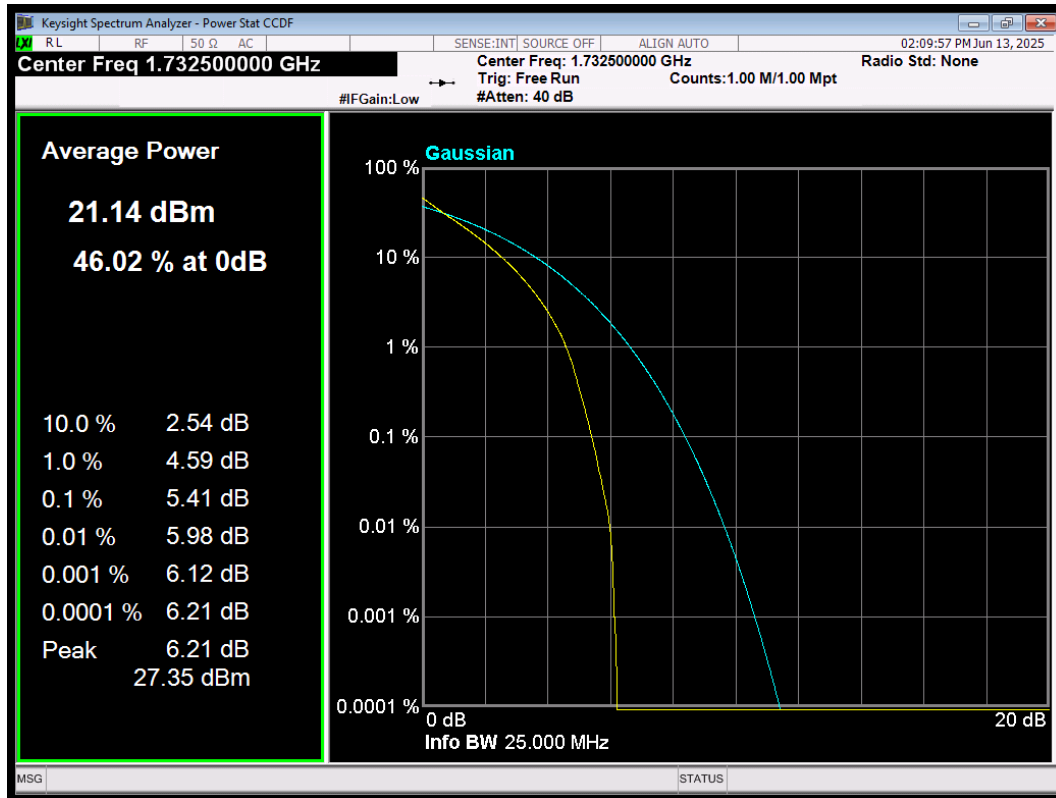
LTE Band 4 Peak-to-Average Ratio QPSK BW=1.4MHz Channel=20175 RB Size=6 Position=#0



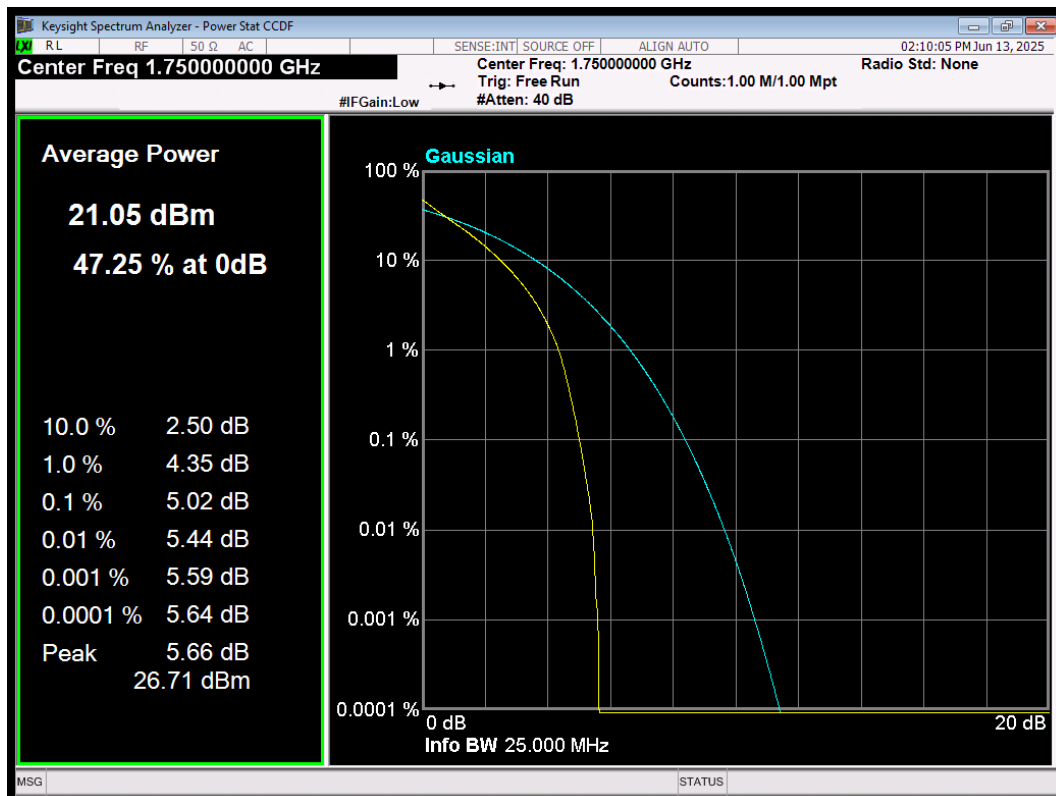
LTE Band 4 Peak-to-Average Ratio QPSK BW=1.4MHz Channel=20393 RB Size=6 Position=#0



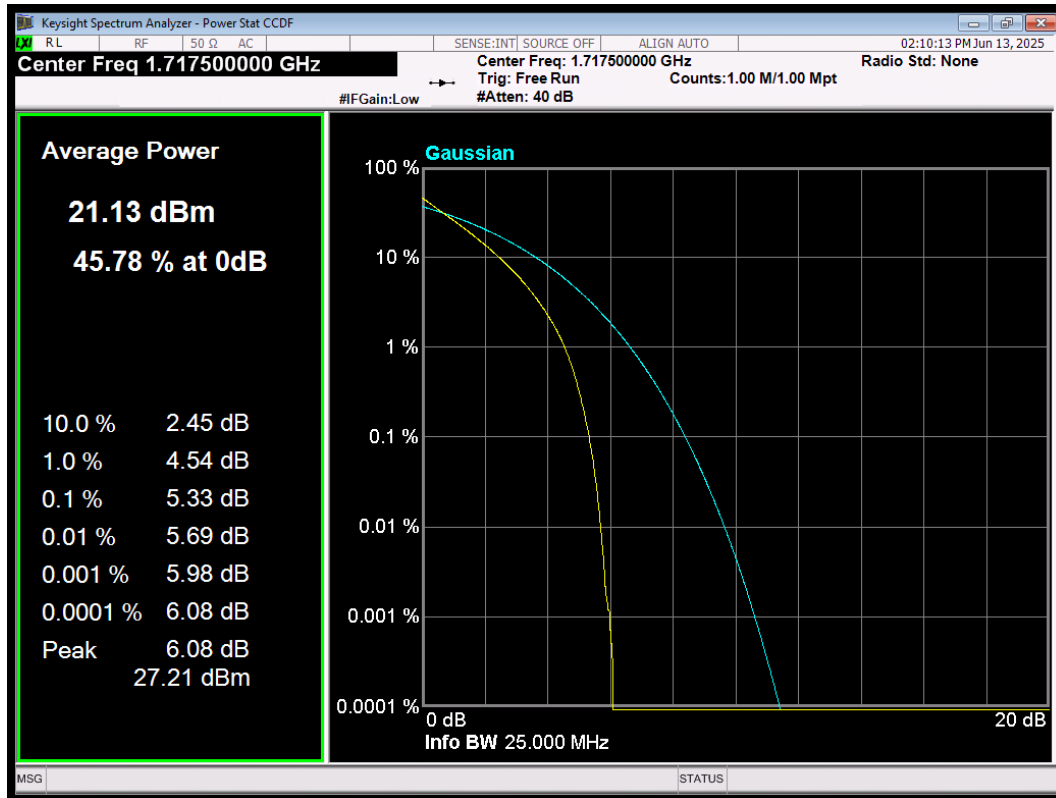
LTE Band 4 Peak-to-Average Ratio QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0



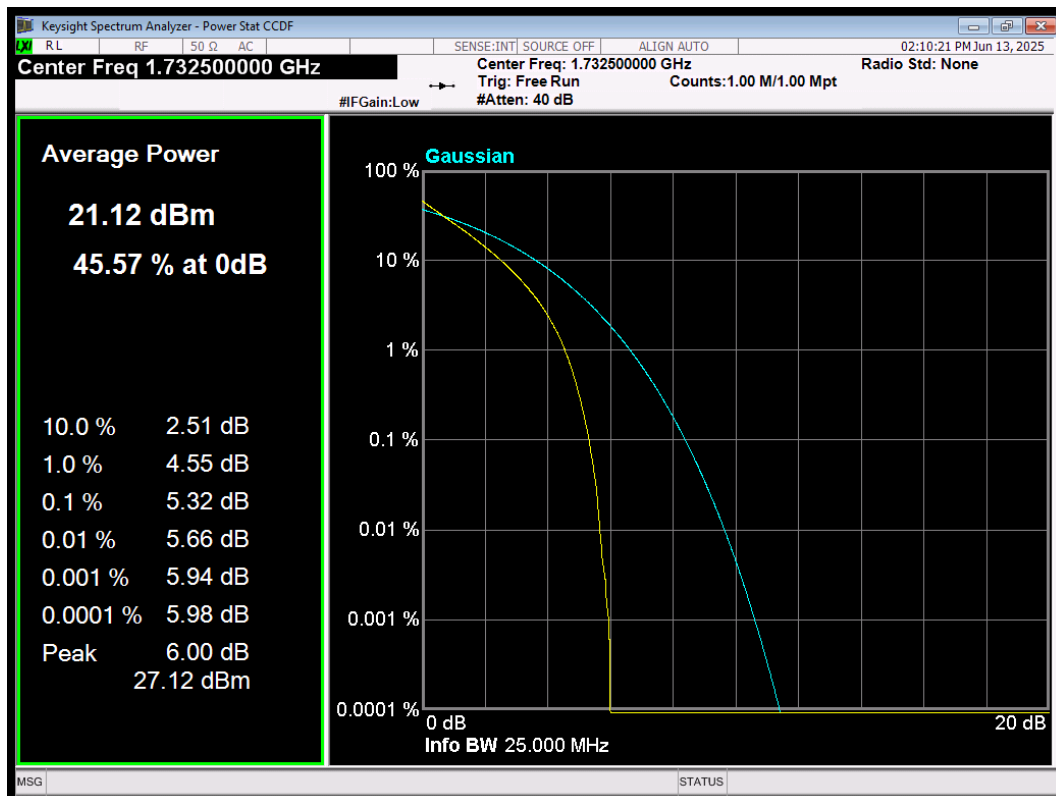
LTE Band 4 Peak-to-Average Ratio QPSK BW=10MHz Channel=20175 RB Size=50 Position=#0



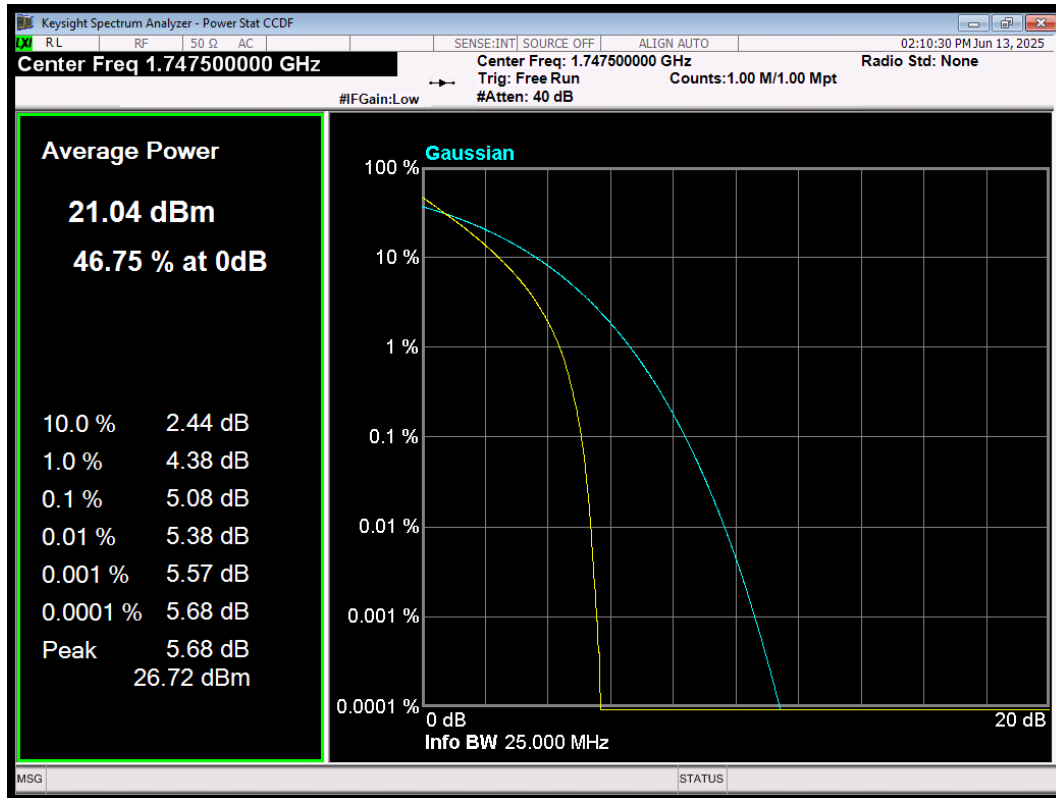
LTE Band 4 Peak-to-Average Ratio QPSK BW=10MHz Channel=20350 RB Size=50 Position=#0



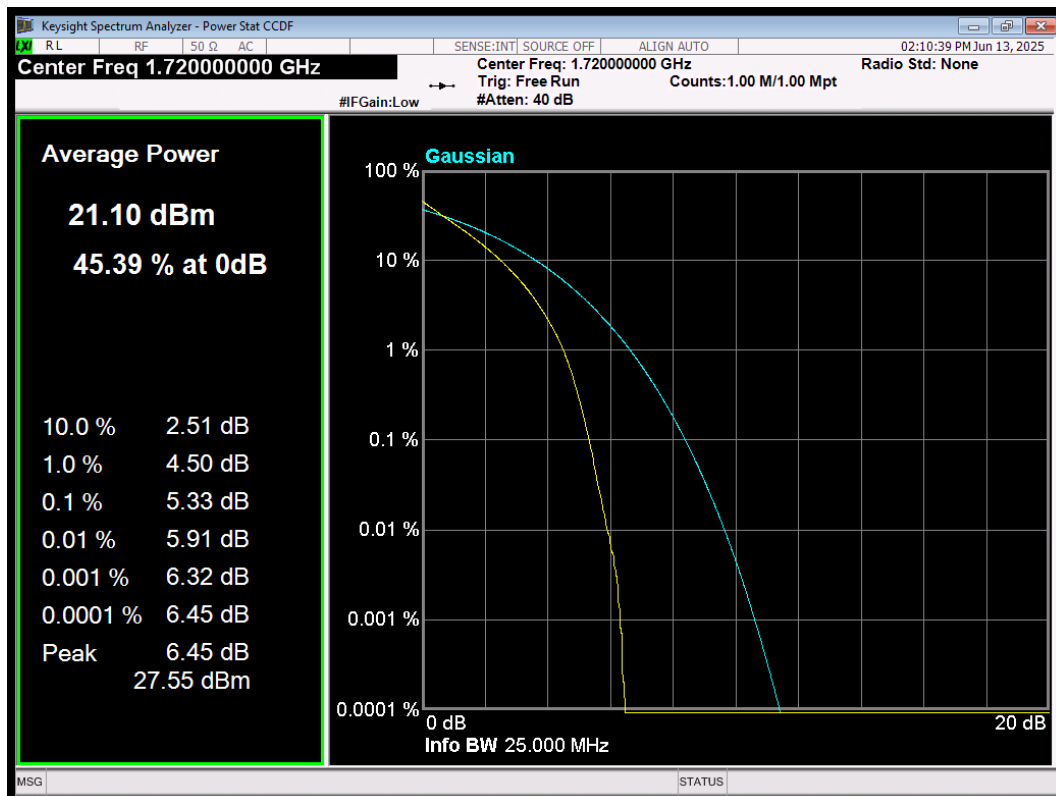
LTE Band 4 Peak-to-Average Ratio QPSK BW=15MHz Channel=20025 RB Size=75 Position=#0



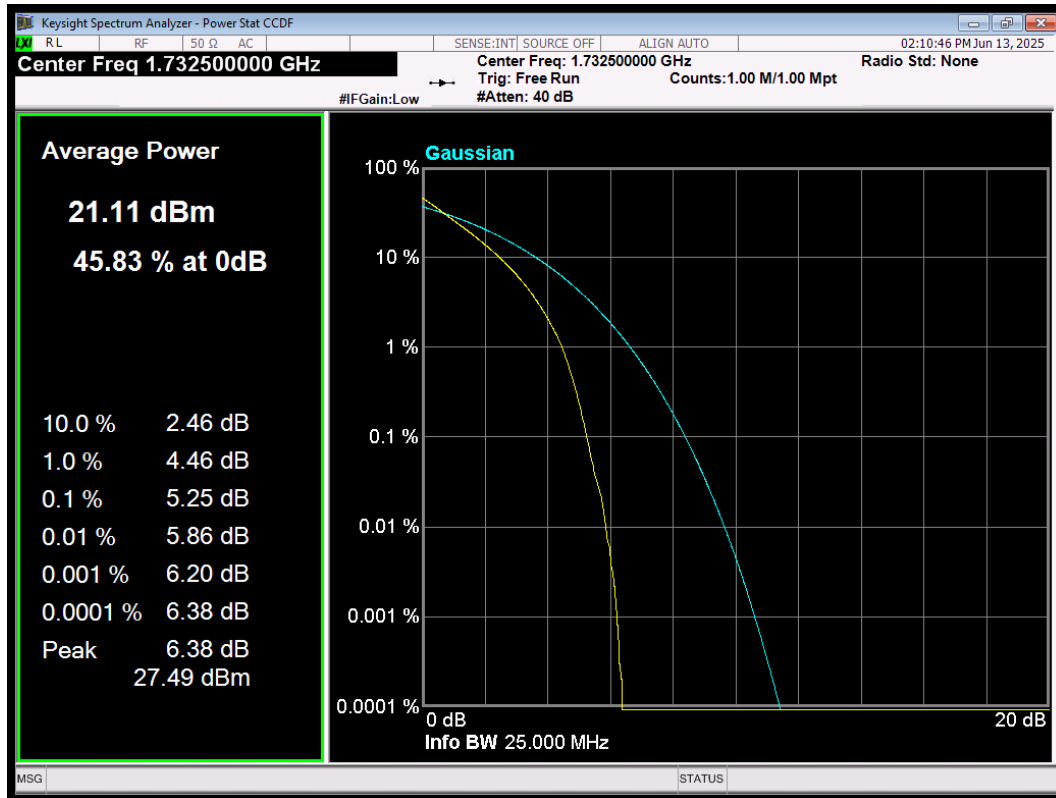
LTE Band 4 Peak-to-Average Ratio QPSK BW=15MHz Channel=20175 RB Size=75 Position=#0



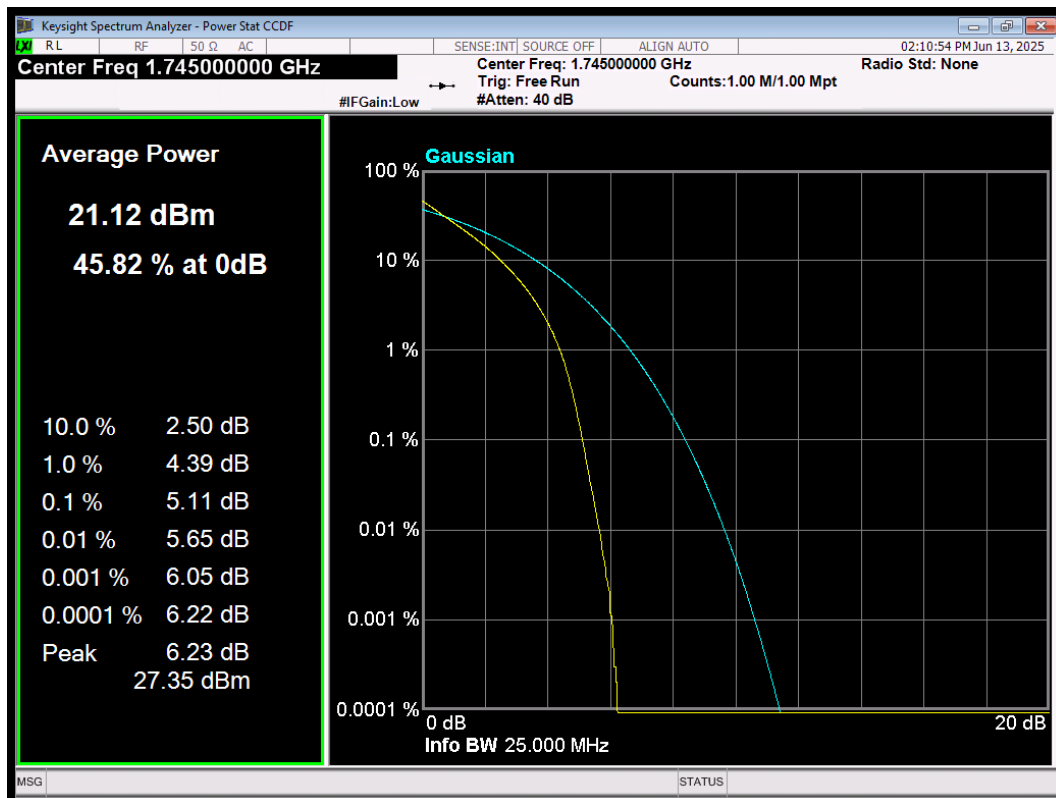
LTE Band 4 Peak-to-Average Ratio QPSK BW=15MHz Channel=20325 RB Size=75 Position=#0



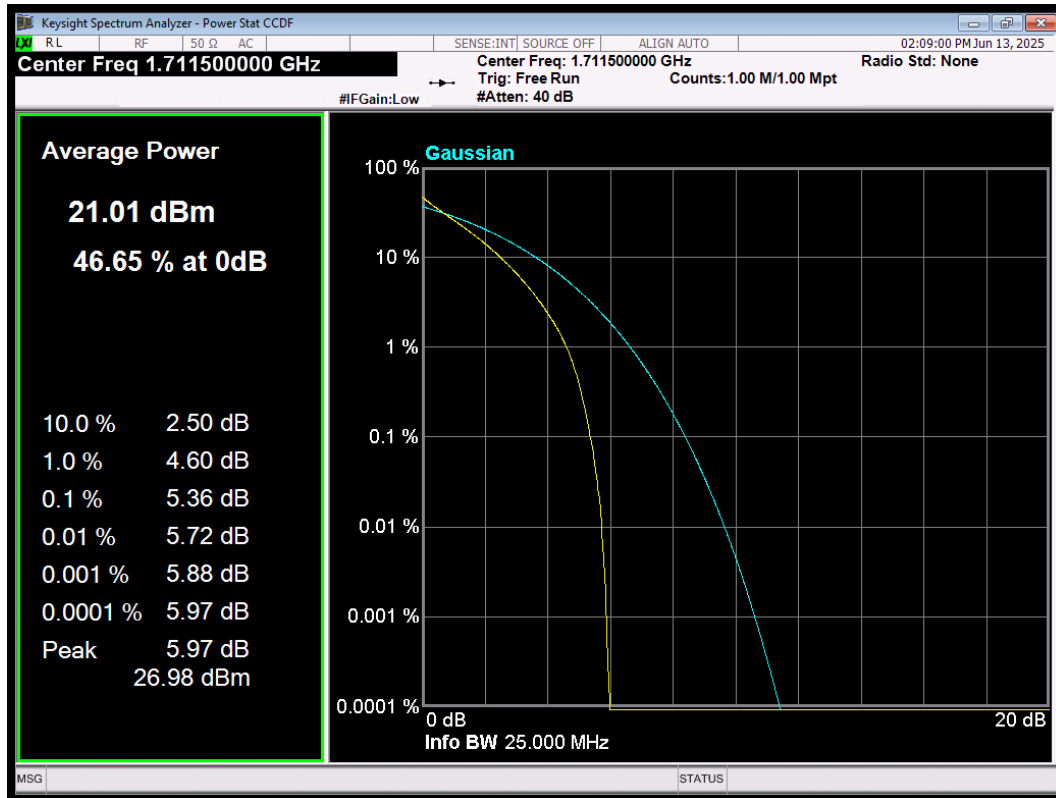
LTE Band 4 Peak-to-Average Ratio QPSK BW=20MHz Channel=20050 RB Size=100 Position=#0



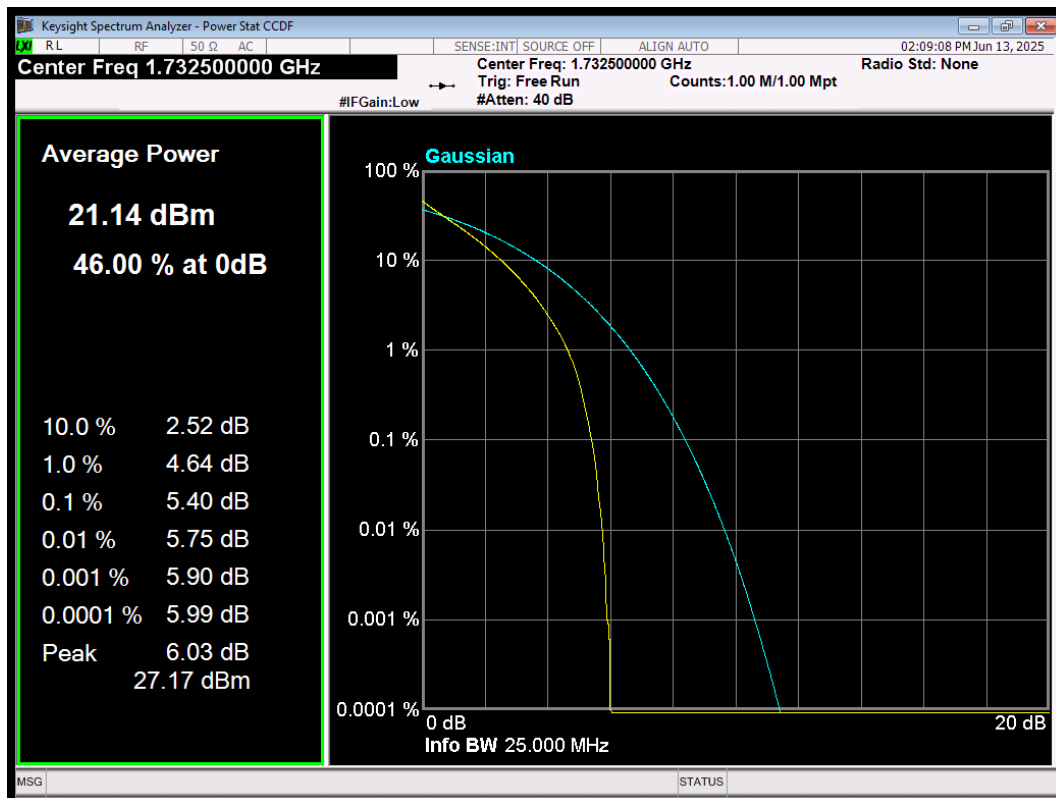
LTE Band 4 Peak-to-Average Ratio QPSK BW=20MHz Channel=20175 RB Size=100 Position=#0



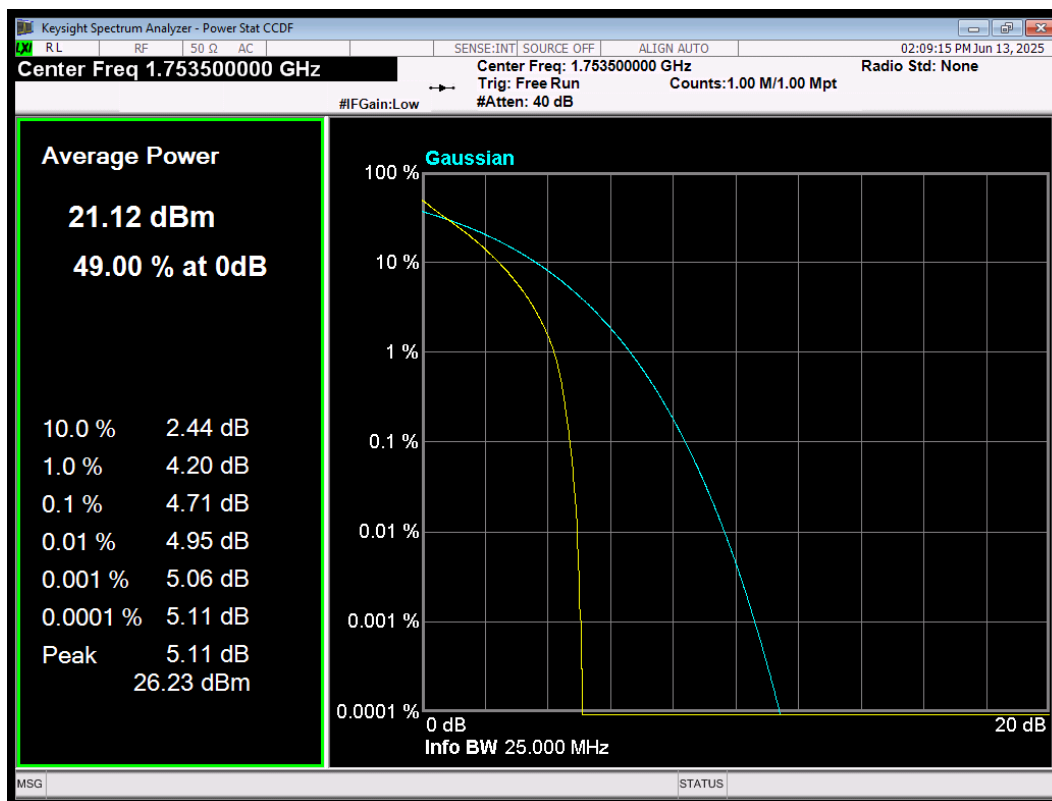
LTE Band 4 Peak-to-Average Ratio QPSK BW=20MHz Channel=20300 RB Size=100 Position=#0



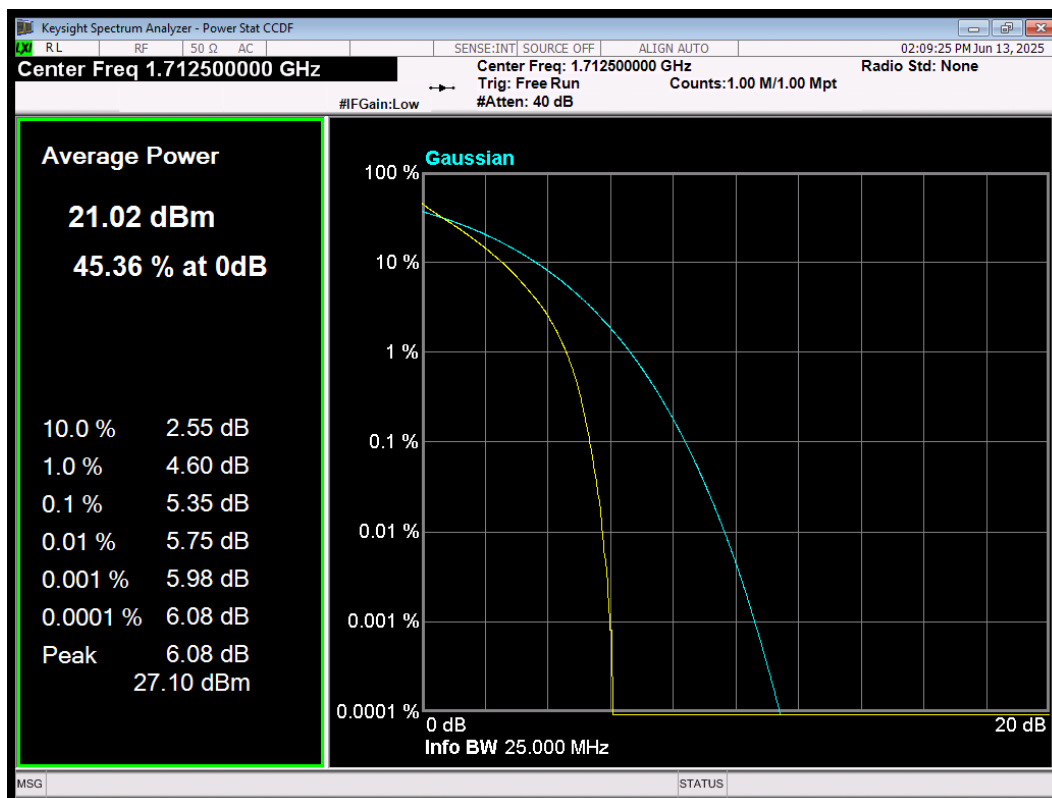
LTE Band 4 Peak-to-Average Ratio QPSK BW=3MHz Channel=19965 RB Size=15 Position=#0



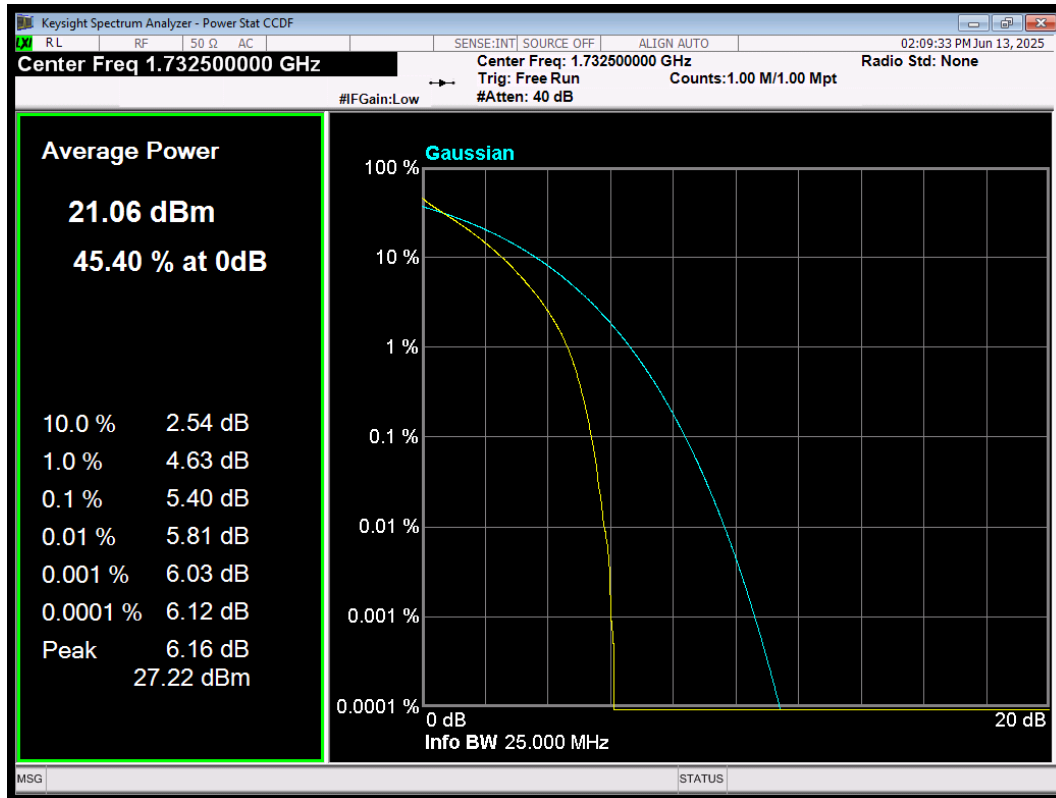
LTE Band 4 Peak-to-Average Ratio QPSK BW=3MHz Channel=20175 RB Size=15 Position=#0



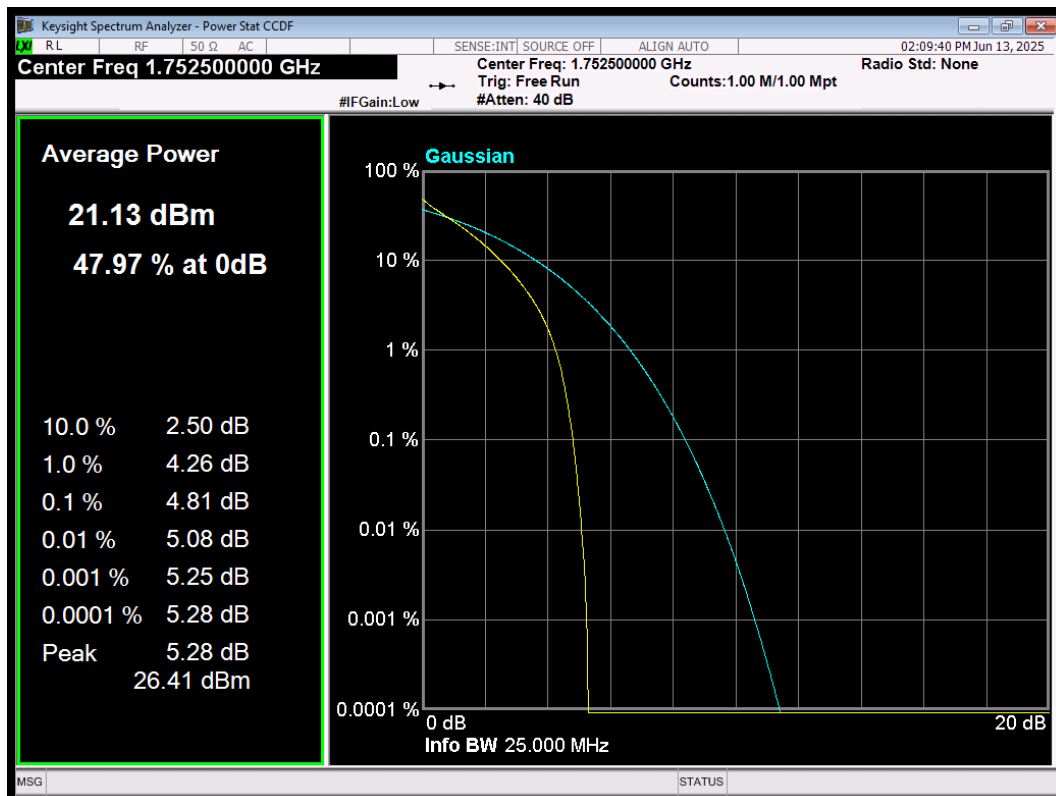
LTE Band 4 Peak-to-Average Ratio QPSK BW=3MHz Channel=20385 RB Size=15 Position=#0



LTE Band 4 Peak-to-Average Ratio QPSK BW=5MHz Channel=19975 RB Size=25 Position=#0



LTE Band 4 Peak-to-Average Ratio QPSK BW=5MHz Channel=20175 RB Size=25 Position=#0

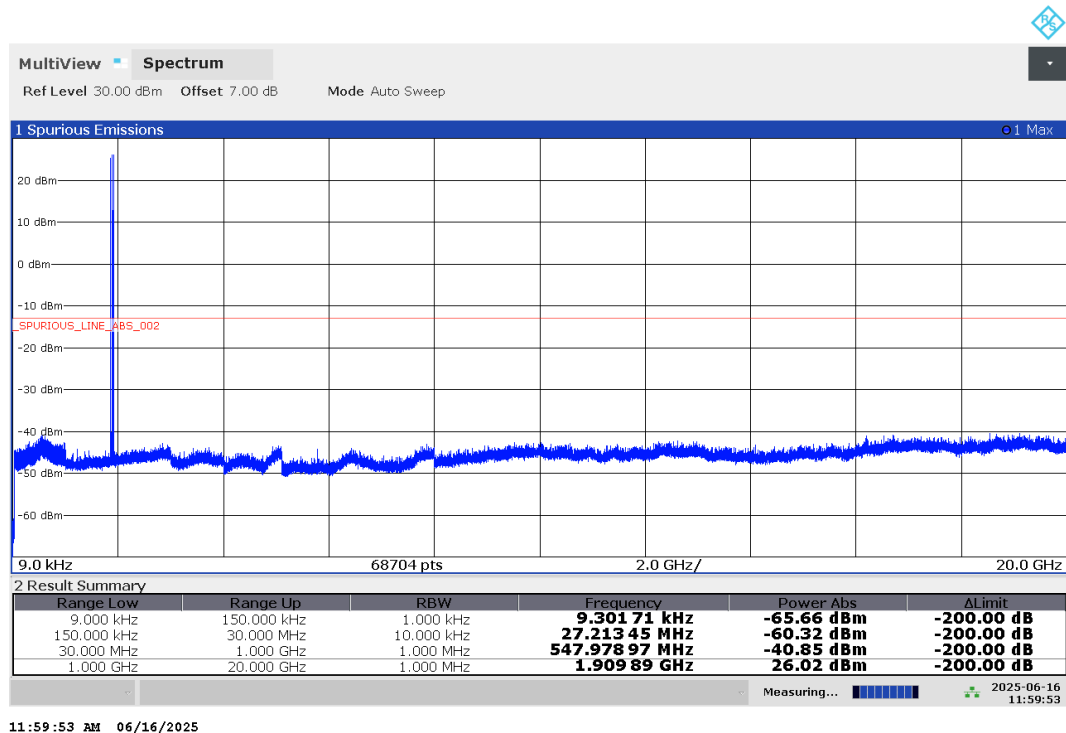


LTE Band 4 Peak-to-Average Ratio QPSK BW=5MHz Channel=20375 RB Size=25 Position=#0

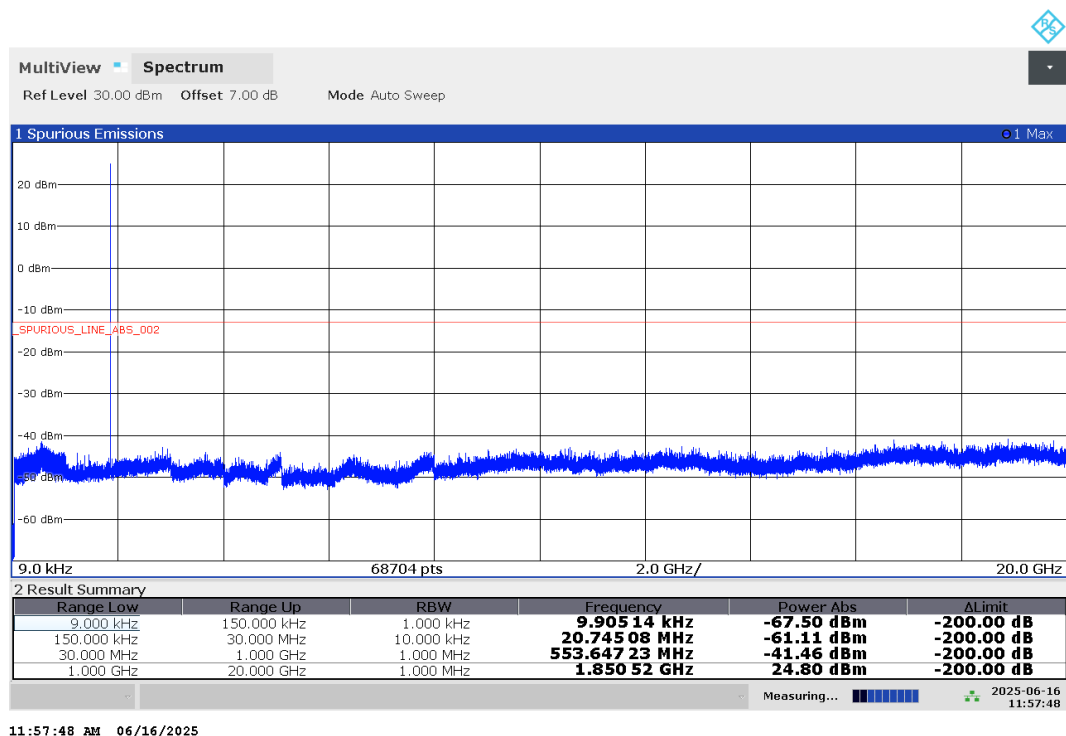
## 6.5 Spurious Emissions at Antenna Terminals

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions more than 20 dB below the limit are not reported.

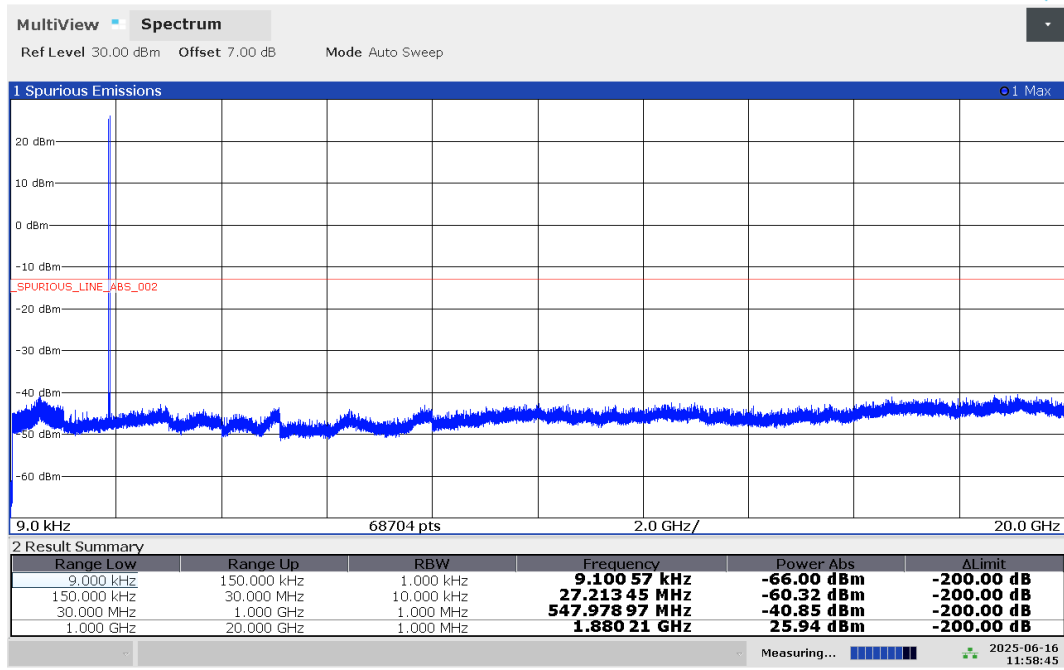
The signal beyond the limit is carrier.



CSE\GSM1900\GPRS\H

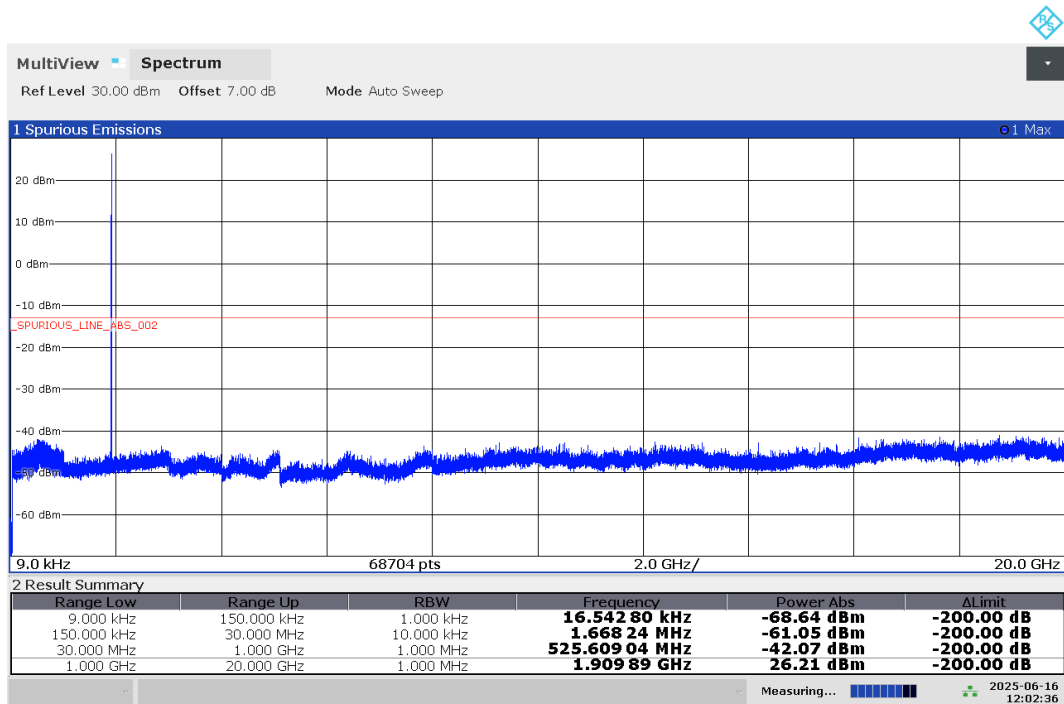


CSE\GSM1900\GPRS\L



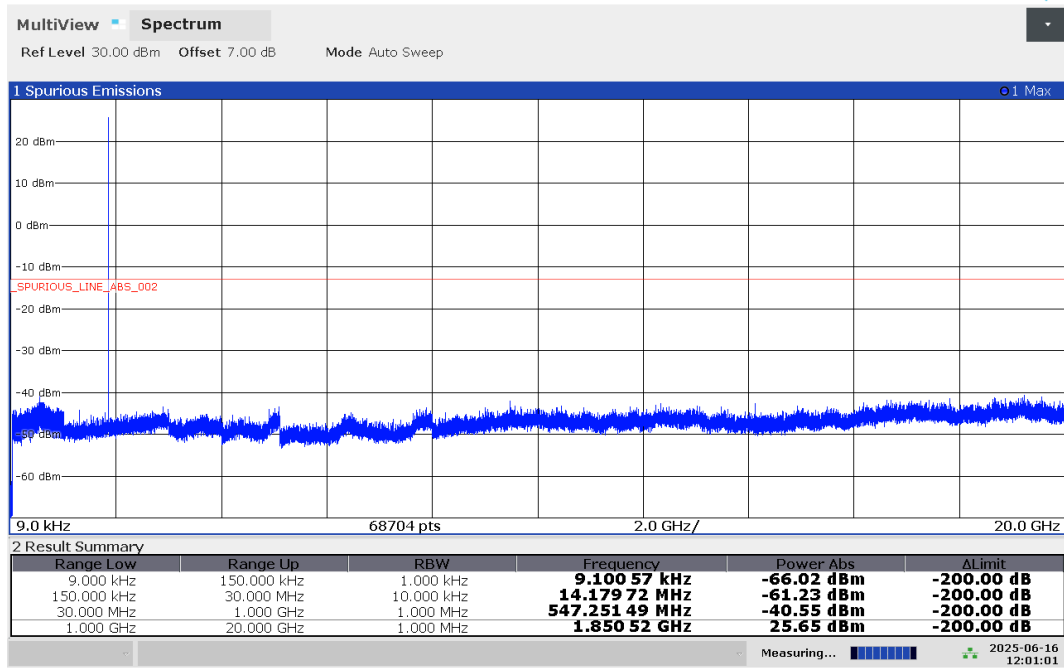
11:58:45 AM 06/16/2025

CSE\GSM1900\GPRS\M



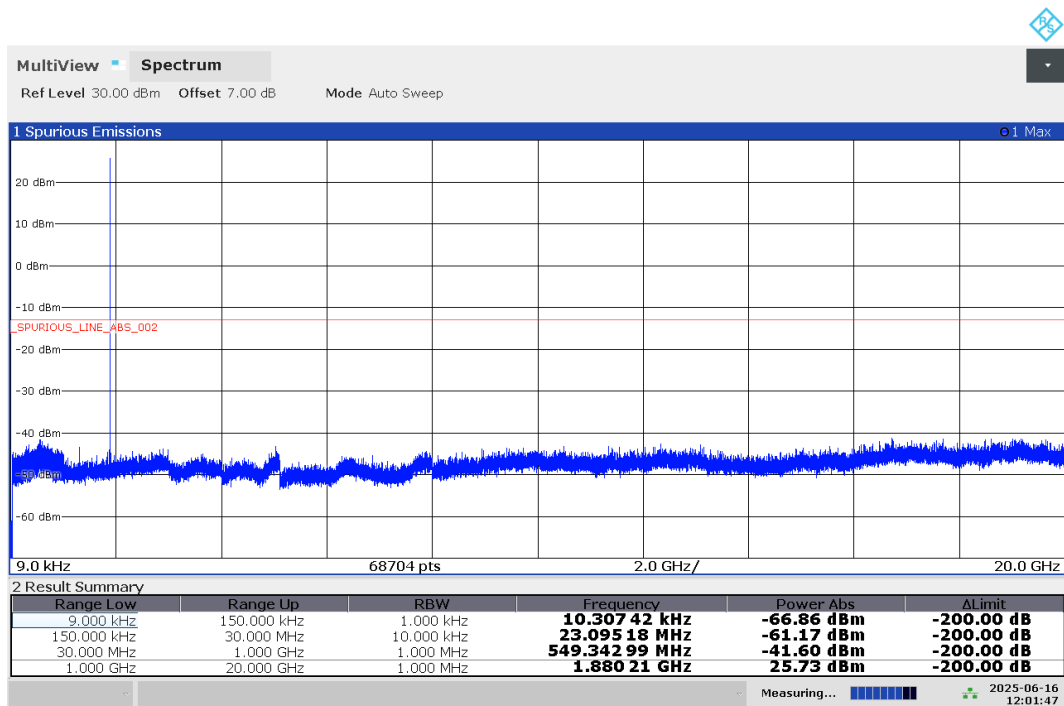
12:02:37 PM 06/16/2025

CSE\GSM1900\EGPRS\H



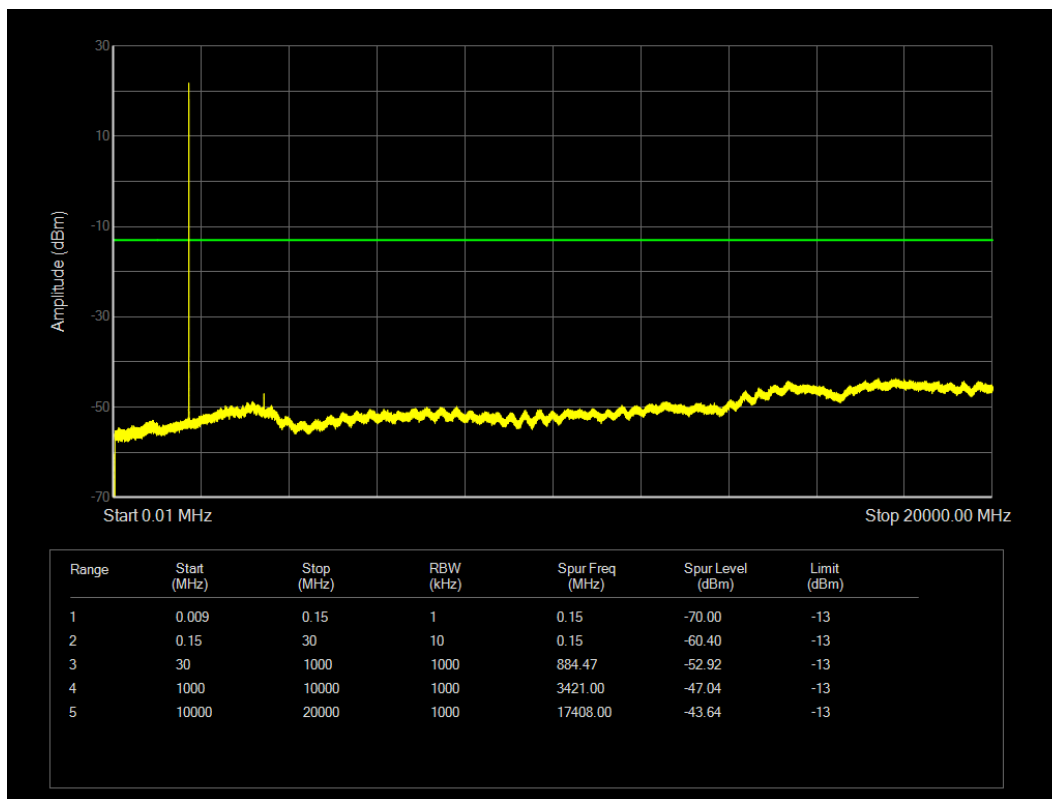
12:01:02 PM 06/16/2025

CSE\GSM1900\EGPRS\L

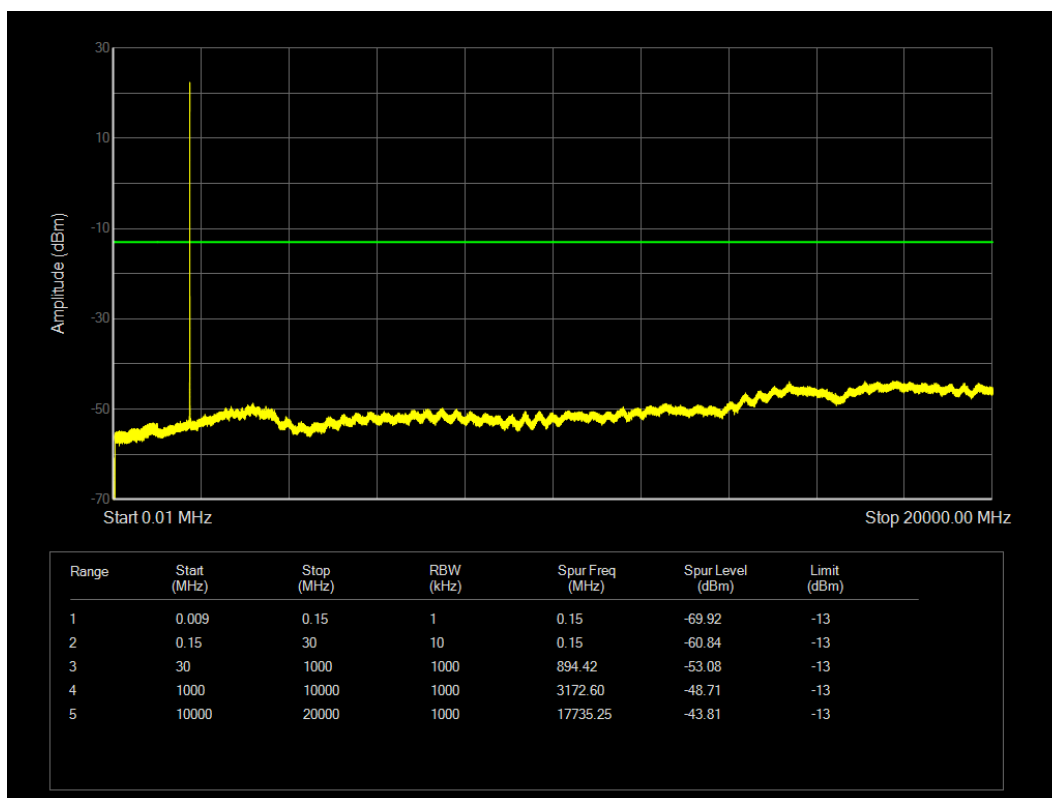


12:01:47 PM 06/16/2025

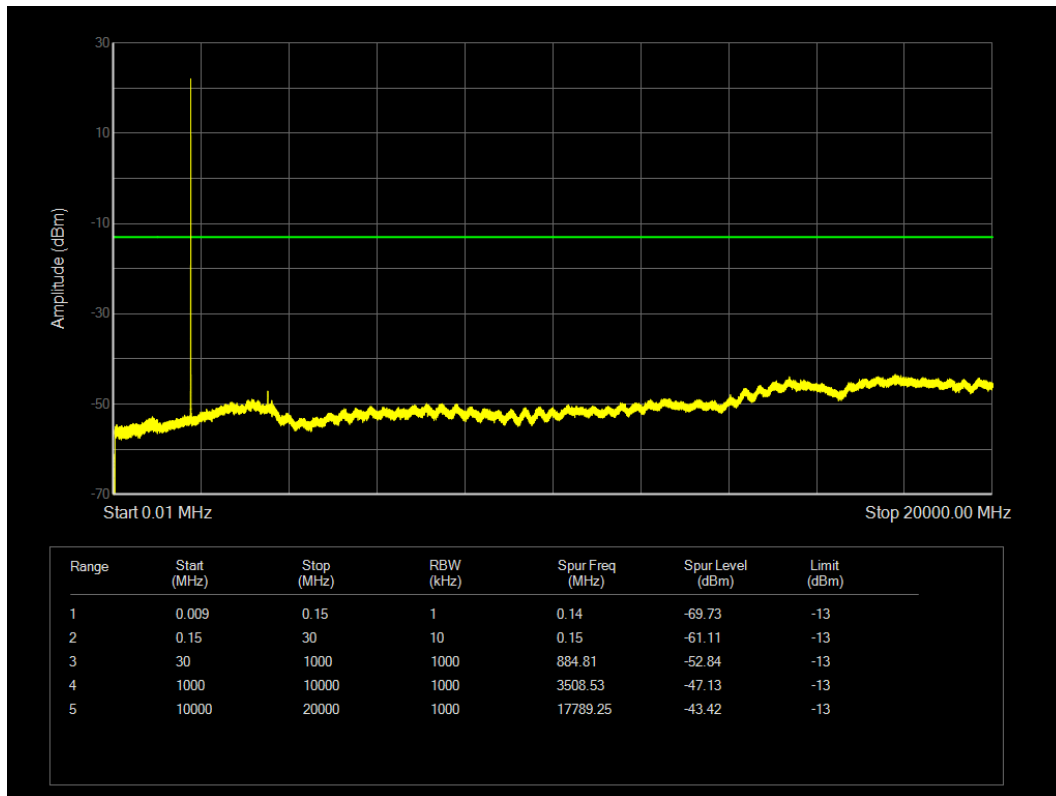
CSE\GSM1900\EGPRS\M



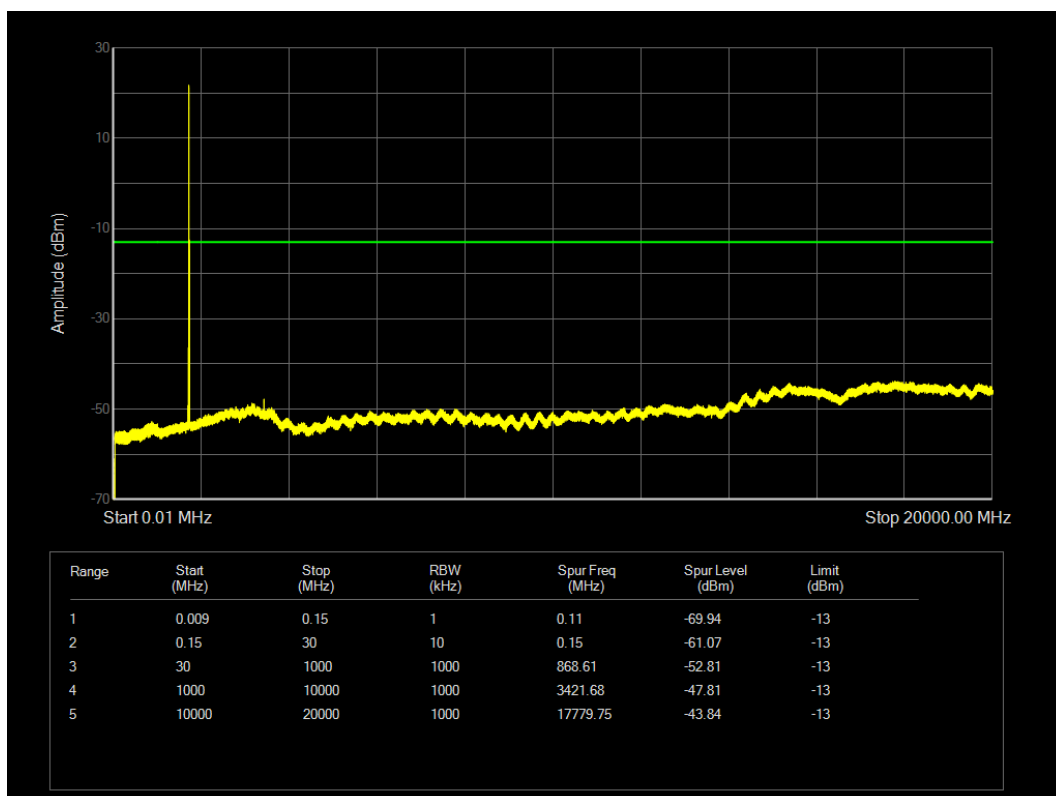
LTE Band 4 CSEQPSK BW=1.4MHz Channel=19957 RB Size=1 Position=#0



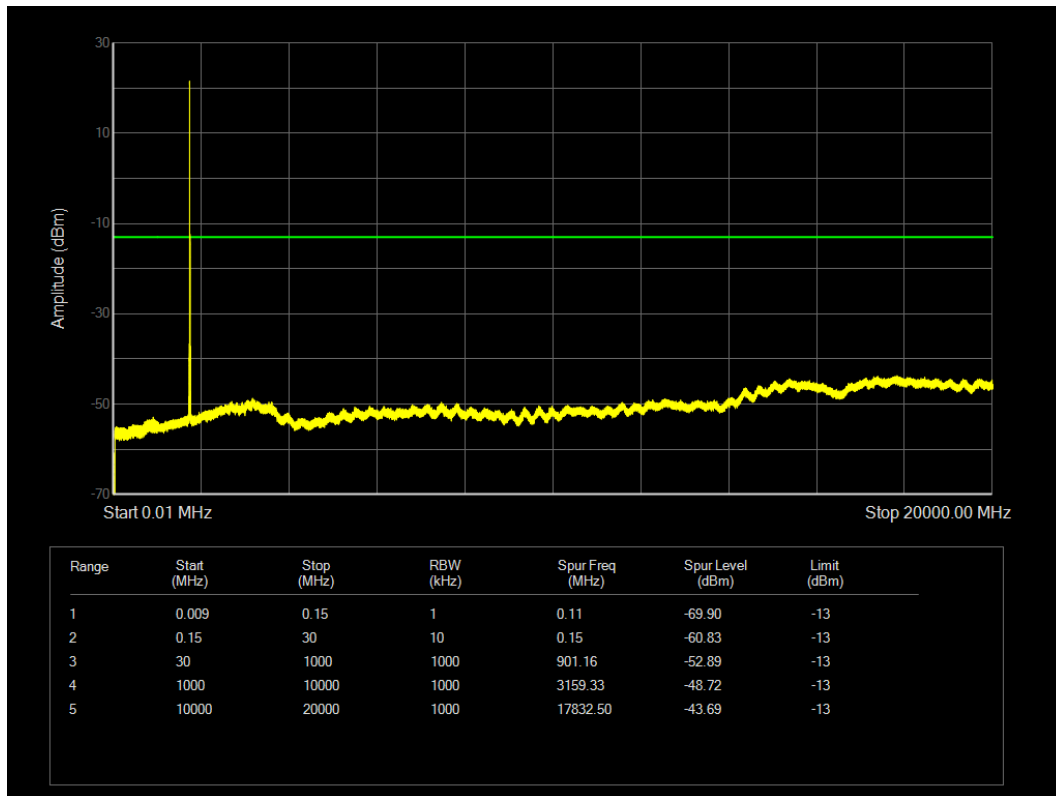
LTE Band 4 CSEQPSK BW=1.4MHz Channel=20175 RB Size=1 Position=#0



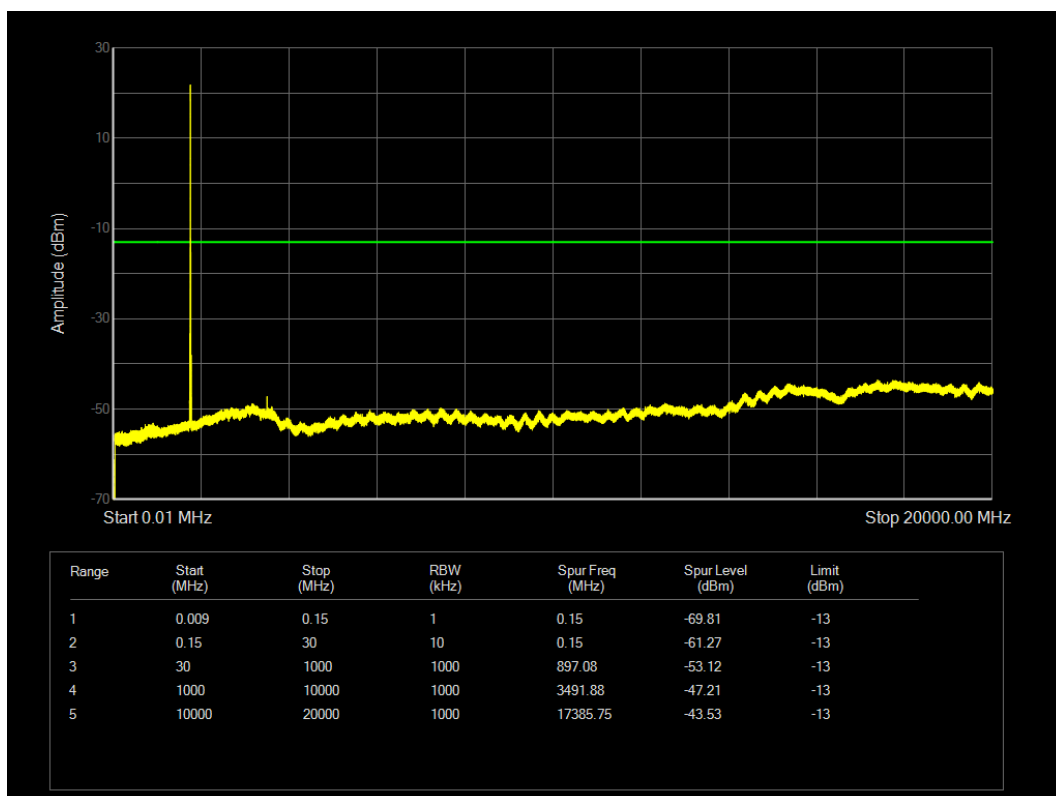
LTE Band 4 CSEQPSK BW=1.4MHz Channel=20393 RB Size=1 Position=#0



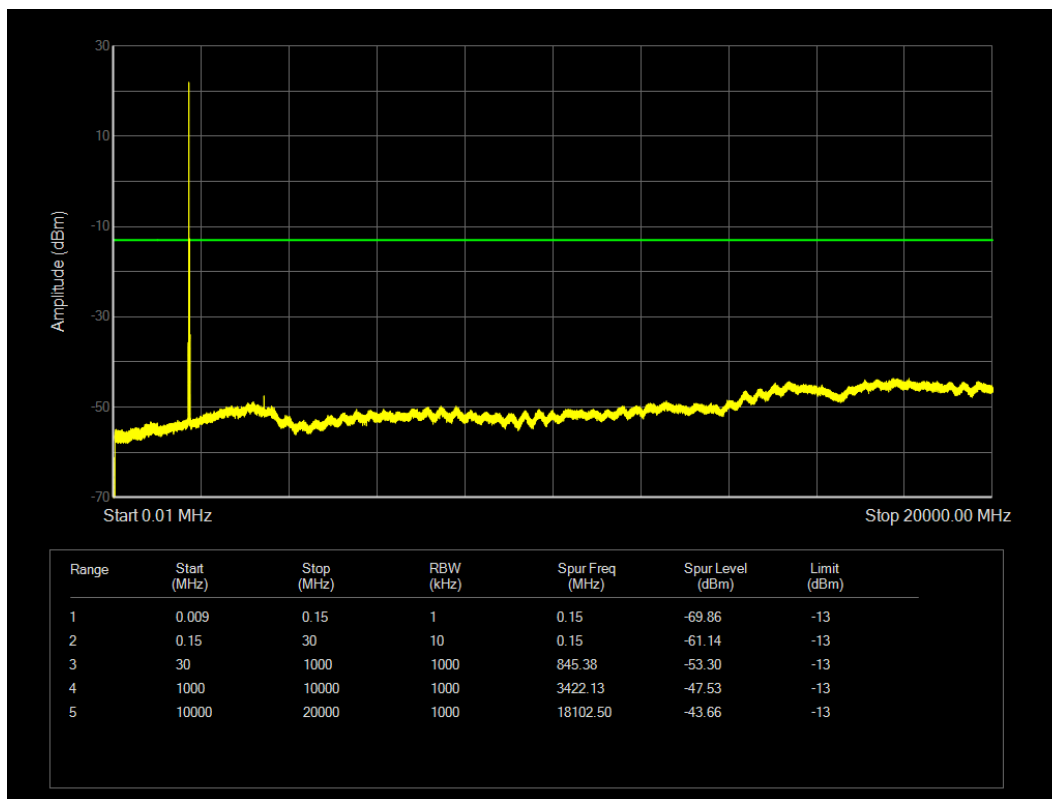
LTE Band 4 CSEQPSK BW=10MHz Channel=20000 RB Size=1 Position=#0



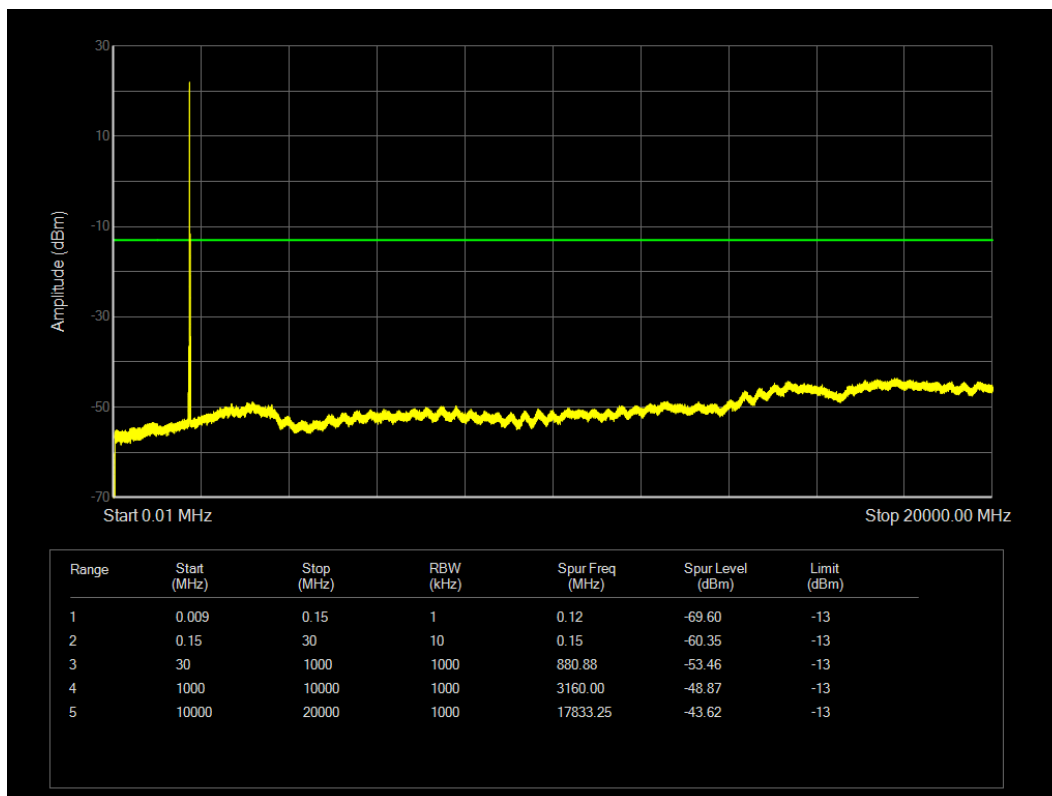
LTE Band 4 CSEQPSK BW=10MHz Channel=20175 RB Size=1 Position=#0



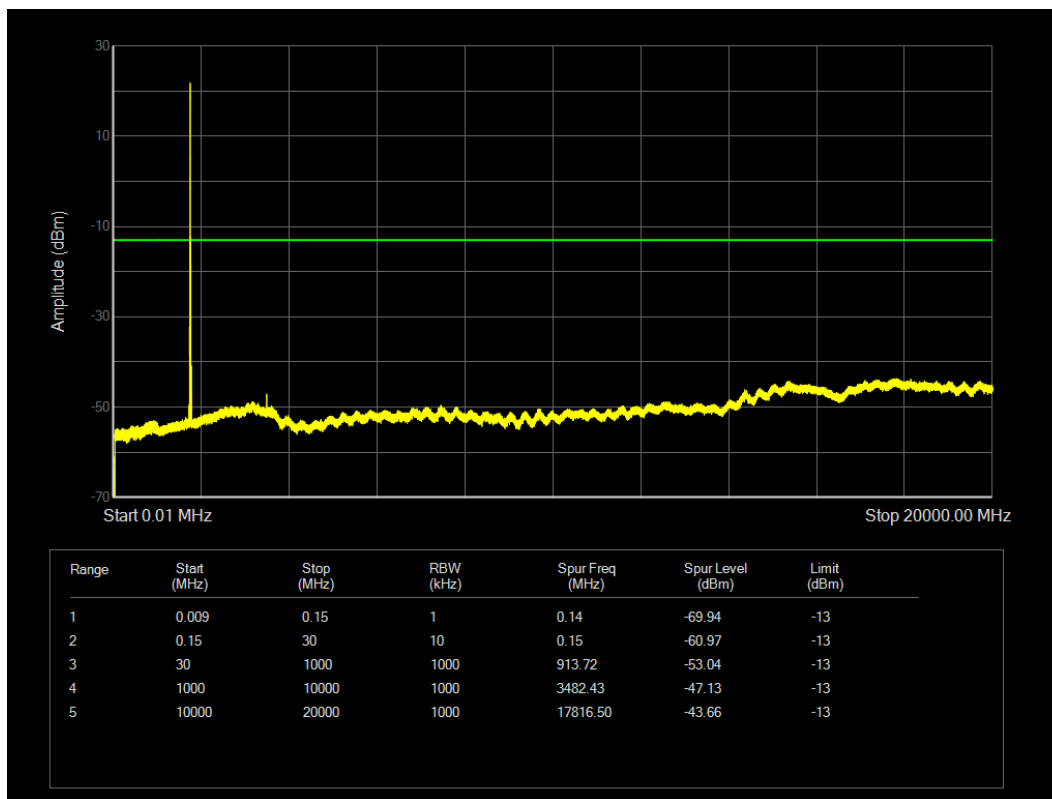
LTE Band 4 CSEQPSK BW=10MHz Channel=20350 RB Size=1 Position=#0



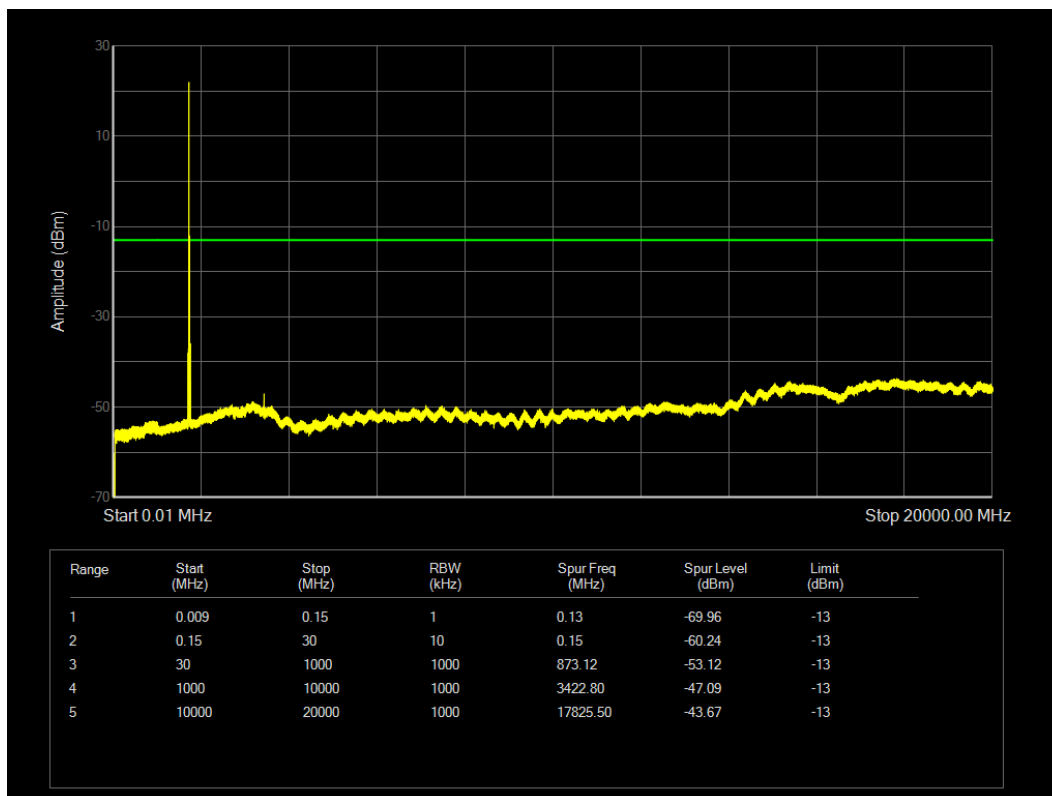
LTE Band 4 CSEQPSK BW=15MHz Channel=20025 RB Size=1 Position=#0



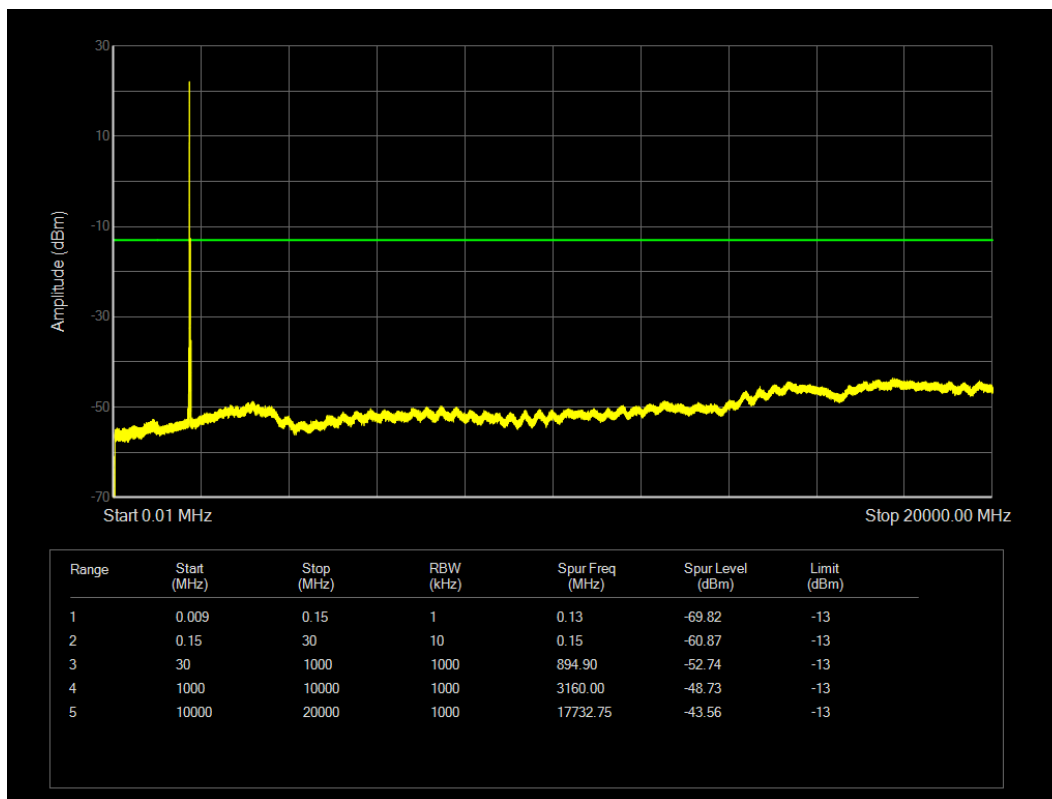
LTE Band 4 CSEQPSK BW=15MHz Channel=20175 RB Size=1 Position=#0



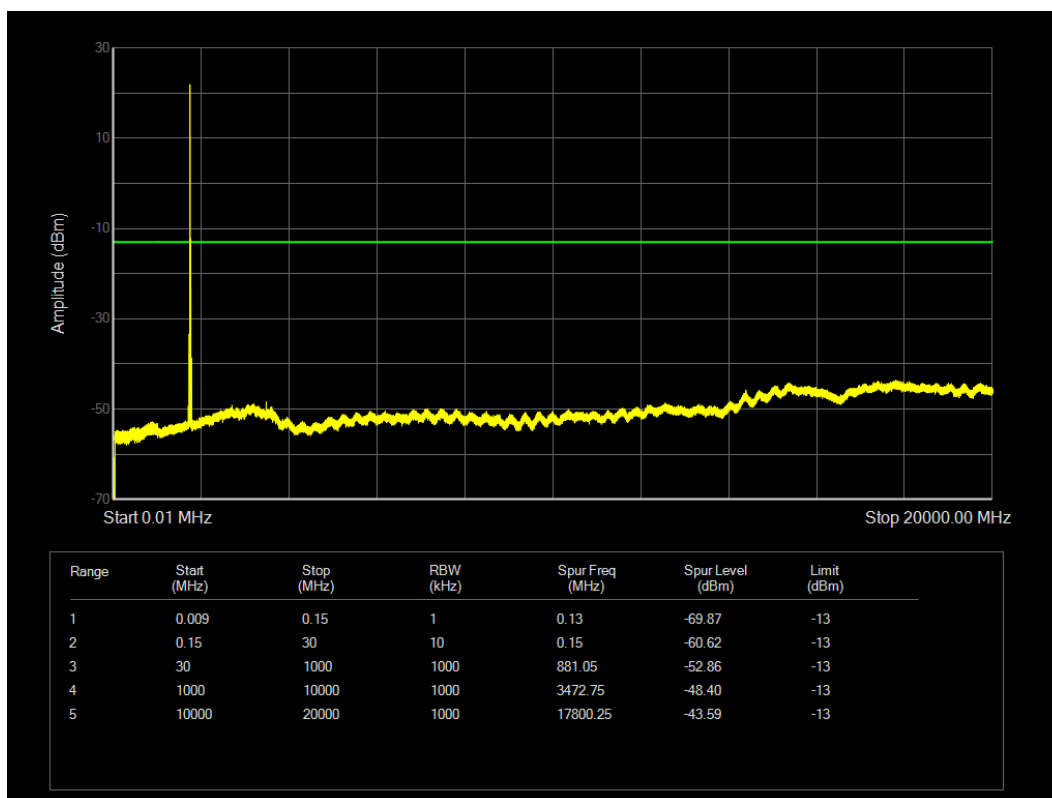
LTE Band 4 CSEQPSK BW=15MHz Channel=20325 RB Size=1 Position=#0



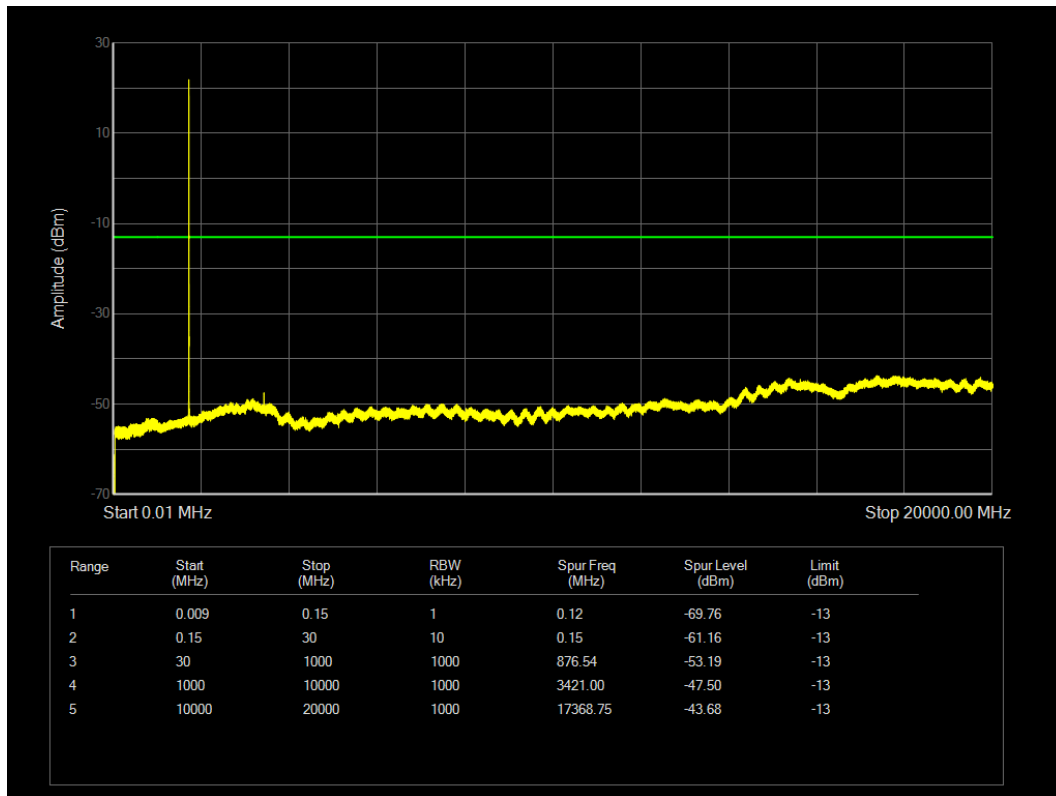
LTE Band 4 CSEQPSK BW=20MHz Channel=20050 RB Size=1 Position=#0



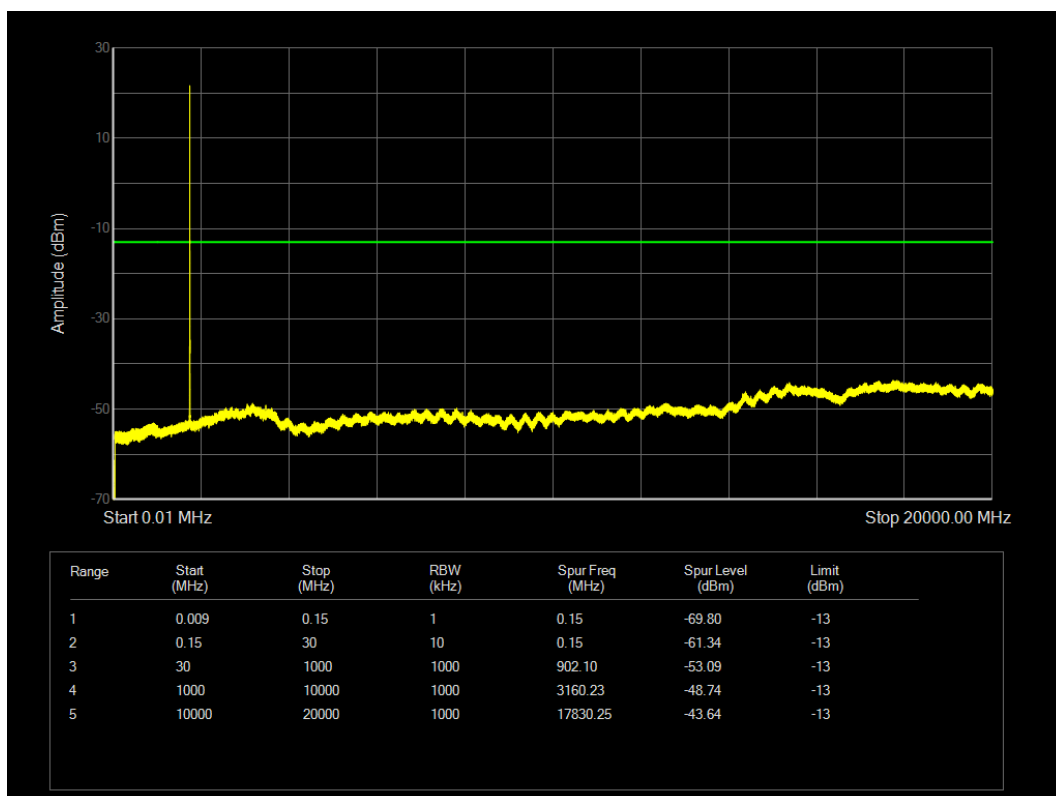
LTE Band 4 CSEQPSK BW=20MHz Channel=20175 RB Size=1 Position=#0



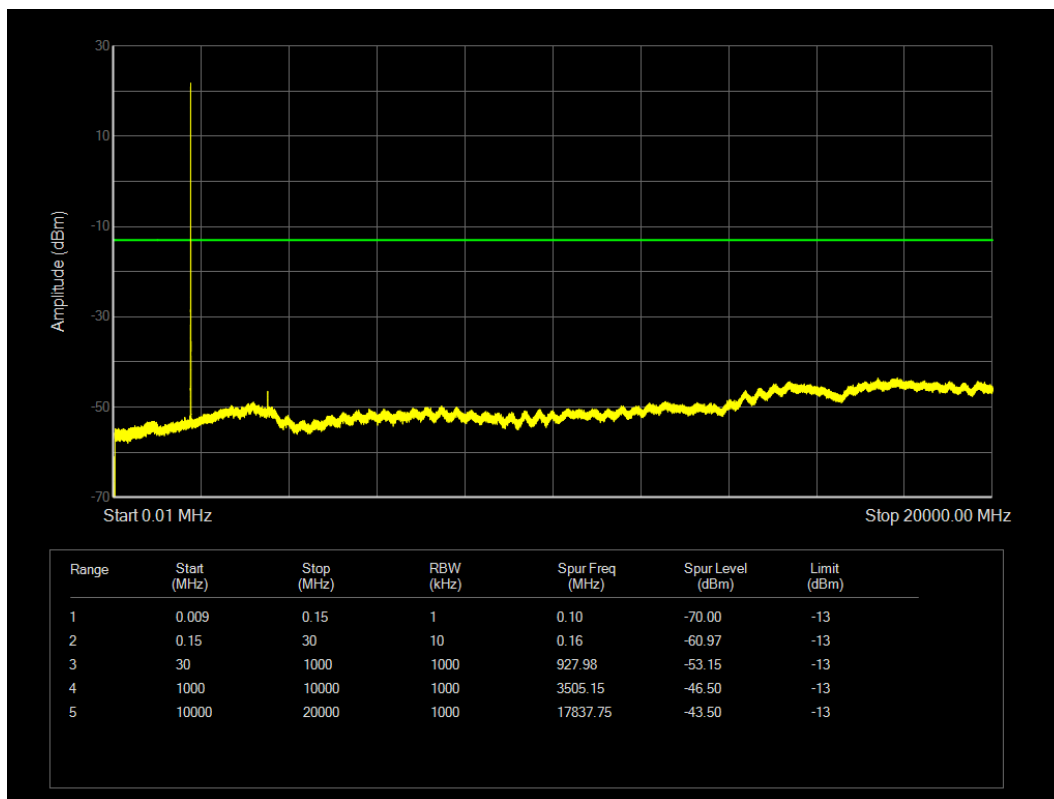
LTE Band 4 CSEQPSK BW=20MHz Channel=20300 RB Size=1 Position=#0



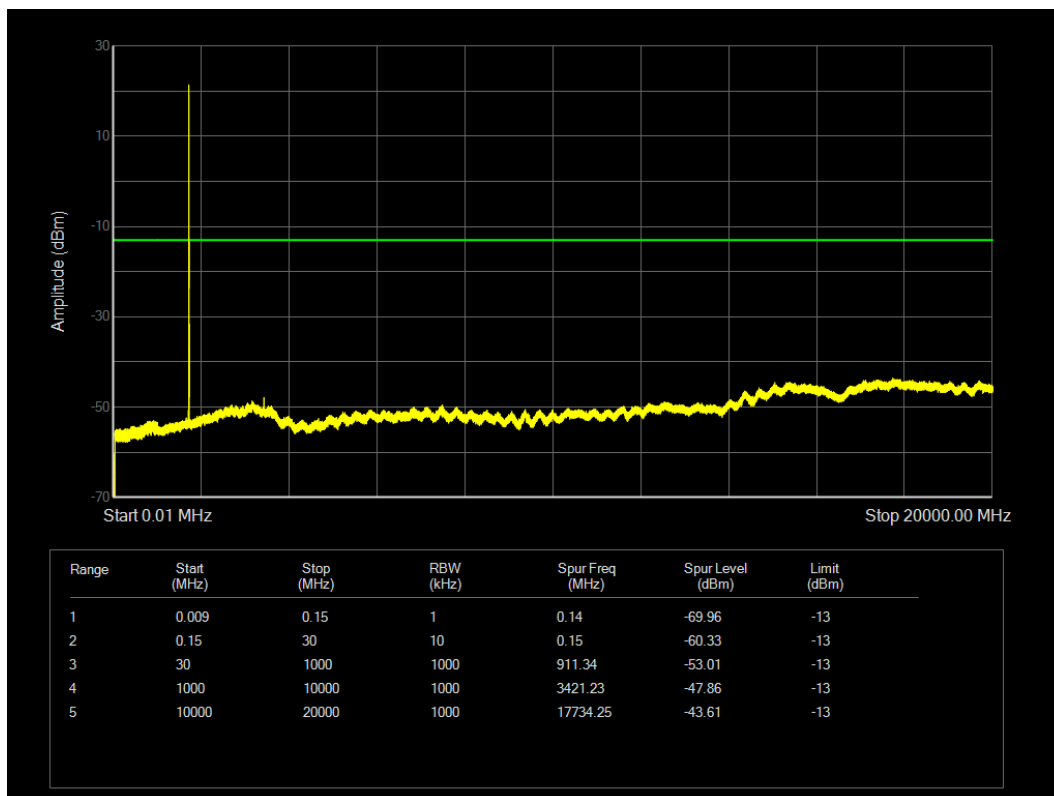
LTE Band 4 CSEQPSK BW=3MHz Channel=19965 RB Size=1 Position=#0



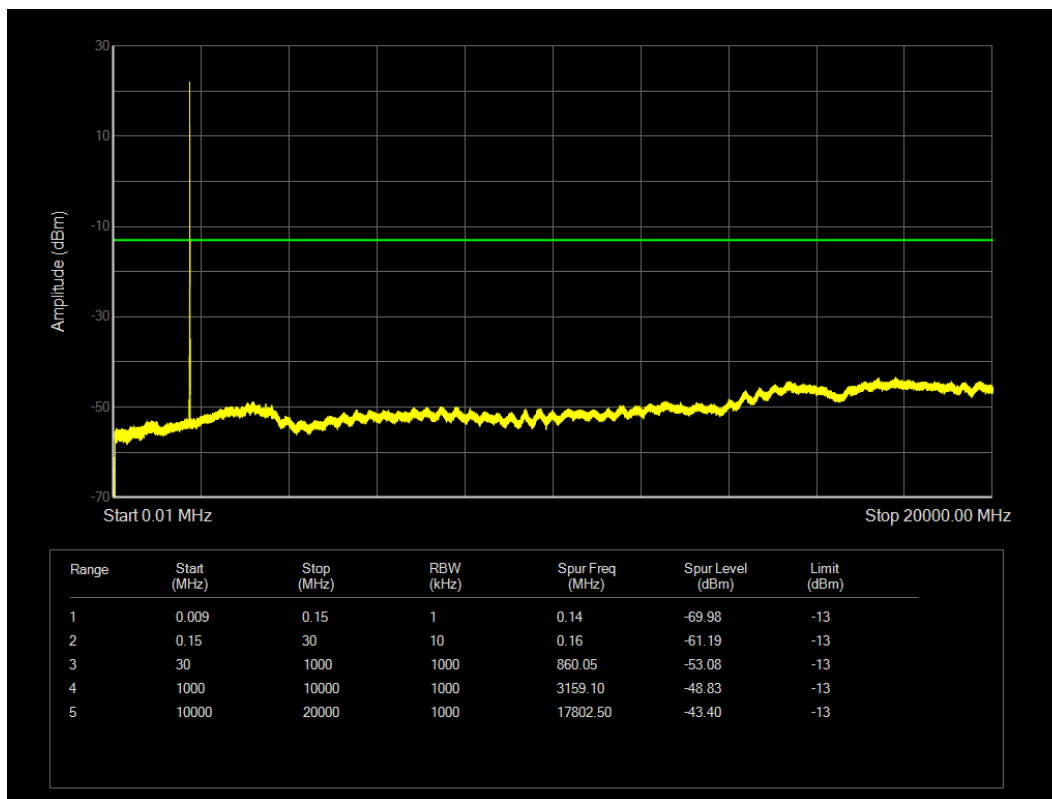
LTE Band 4 CSEQPSK BW=3MHz Channel=20175 RB Size=1 Position=#0



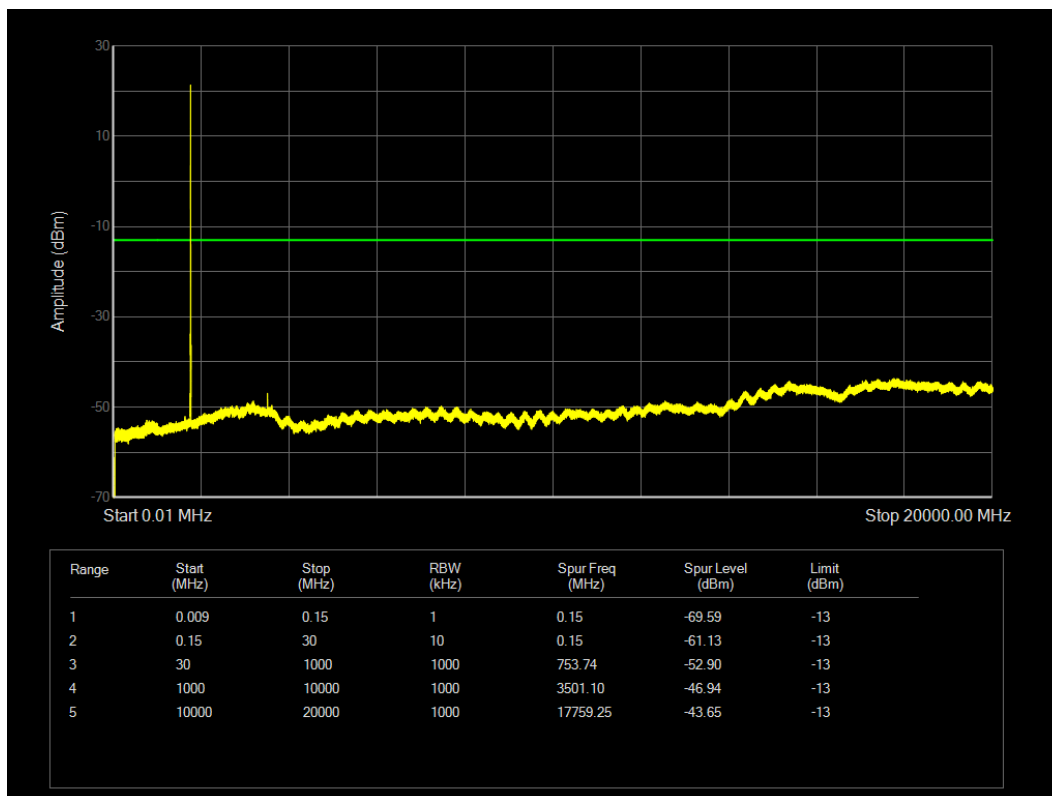
LTE Band 4 CSEQPSK BW=3MHz Channel=20385 RB Size=1 Position=#0



LTE Band 4 CSEQPSK BW=5MHz Channel=19975 RB Size=1 Position=#0



LTE Band 4 CSEQPSK BW=5MHz Channel=20175 RB Size=1 Position=#0



LTE Band 4 CSEQPSK BW=5MHz Channel=20375 RB Size=1 Position=#0

## 6.6 Radiated Spurious Emission

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (Horizontal and Vertical), the worst emission was found in position and the worst case and worst Antenna was recorded.

|       |                               |
|-------|-------------------------------|
|       | Main Antenna                  |
| GSM   | Y axis, Verticalpolarization  |
| WCDMA | Y axis, Vertical polarization |
| LTE   | X axis, Vertical polarization |

# Main Antenna PCCM Plus 991/981 I

## GSM 850 CH-Middle

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | Result Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|--------------------|-------------|-------------|---------------|
| 2        | 1673.55         | -57.72   | 1.70            | 8.70       | Vertical             | -52.87             | -13.00      | 39.87       | 52            |
| 3        | 2509.80         | -66.49   | 2.30            | 12.00      | Vertical             | -58.94             | -13.00      | 45.94       | 63            |
| 4        | 3346.40         | -62.79   | 2.70            | 12.70      | Vertical             | -54.94             | -13.00      | 41.94       | 74            |
| 5        | 4183.00         | -63.54   | 3.00            | 12.50      | Vertical             | -56.19             | -13.00      | 43.19       | 12            |
| 6        | 5019.60         | -58.95   | 3.40            | 12.50      | Vertical             | -52.00             | -13.00      | 39.00       | 52            |
| 7        | 5856.20         | -59.25   | 3.40            | 12.80      | Vertical             | -52.00             | -13.00      | 39.00       | 74            |
| 8        | 6692.80         | -55.33   | 4.10            | 11.50      | Vertical             | -50.08             | -13.00      | 37.08       | 52            |
| 9        | 7529.40         | -51.53   | 4.20            | 12.20      | Vertical             | -45.68             | -13.00      | 32.68       | 62            |
| 10       | 8366.00         | -54.36   | 4.30            | 12.50      | Vertical             | -48.31             | -13.00      | 35.31       | 10            |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

## GSM 1900 CH-Middle

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | Result Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|--------------------|-------------|-------------|---------------|
| 2        | 3760.00         | -39.97   | 2.60            | 12.50      | Vertical             | -30.07             | -13.00      | 17.07       | 12            |
| 3        | 5640.00         | -36.99   | 3.30            | 12.50      | Vertical             | -27.79             | -13.00      | 14.79       | 30            |
| 4        | 7520.00         | -35.85   | 4.20            | 12.20      | Vertical             | -27.85             | -13.00      | 14.85       | 52            |
| 5        | 9400.00         | -52.05   | 4.30            | 11.10      | Vertical             | -45.25             | -13.00      | 32.25       | 1             |
| 6        | 11280.00        | -46.72   | 5.90            | 11.90      | Vertical             | -40.72             | -13.00      | 27.72       | 21            |
| 7        | 13160.00        | -51.51   | 5.70            | 14.00      | Vertical             | -43.21             | -13.00      | 30.21       | 35            |
| 8        | 15040.00        | -53.20   | 5.80            | 13.10      | Vertical             | -45.90             | -13.00      | 32.90       | 0             |
| 9        | 16920.00        | -54.18   | 6.10            | 14.60      | Vertical             | -45.68             | -13.00      | 32.68       | 14            |
| 10       | 18800.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

## WCDMA Band II CH-Middle

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | Result Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|--------------------|-------------|-------------|---------------|
| 2        | 3760.00         | -45.61   | 2.60            | 12.50      | Vertical             | -35.71             | -13.00      | 22.71       | 14            |
| 3        | 5640.00         | -46.64   | 3.30            | 12.50      | Vertical             | -37.44             | -13.00      | 24.44       | 52            |
| 4        | 7520.00         | -40.45   | 4.20            | 12.20      | Vertical             | -32.45             | -13.00      | 19.45       | 62            |
| 5        | 9400.00         | -53.53   | 4.30            | 11.10      | Vertical             | -46.73             | -13.00      | 33.73       | 30            |
| 6        | 11280.00        | -49.74   | 5.90            | 11.90      | Vertical             | -43.74             | -13.00      | 30.74       | 52            |
| 7        | 13160.00        | -52.39   | 5.70            | 14.00      | Vertical             | -44.09             | -13.00      | 31.09       | 85            |
| 8        | 15040.00        | -51.00   | 5.80            | 13.10      | Vertical             | -43.70             | -13.00      | 30.70       | 62            |
| 9        | 16920.00        | -51.78   | 6.10            | 14.60      | Vertical             | -43.28             | -13.00      | 30.28       | 32            |
| 10       | 18800.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

## WCDMA Band IV CH-Middle

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | Result Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|--------------------|-------------|-------------|---------------|
| 2        | 3465.20         | -29.34   | 2.70            | 12.70      | Vertical             | -19.34             | -13.00      | 6.34        | 10            |
| 3        | 5197.80         | -28.38   | 3.20            | 12.50      | Vertical             | -19.08             | -13.00      | 6.08        | 220           |
| 4        | 6930.40         | -34.82   | 4.20            | 11.80      | Vertical             | -27.22             | -13.00      | 14.22       | 65            |
| 5        | 8663.00         | -33.51   | 4.40            | 12.50      | Vertical             | -25.41             | -13.00      | 12.41       | 30            |
| 6        | 10395.60        | -31.88   | 4.70            | 11.30      | Vertical             | -25.28             | -13.00      | 12.28       | 85            |
| 7        | 12128.20        | -42.87   | 5.20            | 13.80      | Vertical             | -34.27             | -13.00      | 21.27       | 14            |
| 8        | 13860.80        | -46.26   | 5.70            | 11.30      | Vertical             | -40.66             | -13.00      | 27.66       | 159           |
| 9        | 15593.40        | -52.51   | 6.10            | 16.80      | Vertical             | -41.81             | -13.00      | 28.81       | 32            |
| 10       | 17326.00        | -50.55   | 6.10            | 14.20      | Vertical             | -42.45             | -13.00      | 29.45       | 0             |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

## WCDMA Band V CH-Middle

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | Result Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|--------------------|-------------|-------------|---------------|
| 2        | 1671.20         | -66.01   | 1.70            | 8.70       | Vertical             | -61.16             | -13.00      | 48.16       | 85            |
| 3        | 2510.40         | -66.04   | 2.30            | 12.00      | Vertical             | -58.49             | -13.00      | 45.49       | 62            |
| 4        | 3346.40         | -66.77   | 2.70            | 12.70      | Vertical             | -58.92             | -13.00      | 45.92       | 85            |
| 5        | 4183.00         | -63.40   | 3.00            | 12.50      | Vertical             | -56.05             | -13.00      | 43.05       | 62            |
| 6        | 5019.60         | -60.84   | 3.40            | 12.50      | Vertical             | -53.89             | -13.00      | 40.89       | 32            |
| 7        | 5856.20         | -59.81   | 3.40            | 12.80      | Vertical             | -52.56             | -13.00      | 39.56       | 20            |
| 8        | 6692.80         | -55.70   | 4.10            | 11.50      | Vertical             | -50.45             | -13.00      | 37.45       | 1             |
| 9        | 7529.40         | -51.09   | 4.20            | 12.20      | Vertical             | -45.24             | -13.00      | 32.24       | 0             |
| 10       | 8366.00         | -54.09   | 4.30            | 12.50      | Vertical             | -48.04             | -13.00      | 35.04       | 0             |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

## LTE Band 2 CH-Middle

| Band width | Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | Result Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|------------|----------|-----------------|----------|-----------------|------------|----------------------|--------------------|-------------|-------------|---------------|
| 1.4MHz     | 2        | 3759.00         | -43.51   | 2.60            | 12.50      | Vertical             | -33.61             | -13.00      | 20.61       | 0             |
|            | 3        | 5638.88         | -39.14   | 3.30            | 12.50      | Vertical             | -29.94             | -13.00      | 16.94       | 45            |
|            | 4        | 7520.00         | -28.88   | 4.20            | 12.20      | Vertical             | -20.88             | -13.00      | 7.88        | 238           |
|            | 5        | 9400.00         | -38.55   | 4.30            | 11.10      | Vertical             | -31.75             | -13.00      | 18.75       | 120           |
|            | 6        | 11280.00        | -44.49   | 5.90            | 11.90      | Vertical             | -38.49             | -13.00      | 25.49       | 90            |
|            | 7        | 13160.00        | -51.43   | 5.70            | 14.00      | Vertical             | -43.13             | -13.00      | 30.13       | 42            |
|            | 8        | 15040.00        | -51.51   | 5.80            | 13.10      | Vertical             | -44.21             | -13.00      | 31.21       | 33            |
|            | 9        | 16920.00        | -52.40   | 6.10            | 14.60      | Vertical             | -43.90             | -13.00      | 30.90       | 180           |
|            | 10       | 18800.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |
| 5MHz       | 2        | 3755.63         | -44.75   | 2.60            | 12.50      | Vertical             | -34.85             | -13.00      | 21.85       | 22            |
|            | 3        | 5633.63         | -43.23   | 3.30            | 12.50      | Vertical             | -34.03             | -13.00      | 21.03       | 185           |
|            | 4        | 7510.00         | -35.10   | 4.20            | 12.20      | Vertical             | -27.10             | -13.00      | 14.10       | 20            |
|            | 5        | 9387.50         | -49.80   | 4.30            | 11.10      | Vertical             | -43.00             | -13.00      | 30.00       | 147           |
|            | 6        | 11265.00        | -47.79   | 5.90            | 11.90      | Vertical             | -41.79             | -13.00      | 28.79       | 222           |
|            | 7        | 13142.00        | -52.02   | 5.70            | 14.00      | Vertical             | -43.72             | -13.00      | 30.72       | 147           |
|            | 8        | 15020.00        | -51.67   | 5.80            | 13.10      | Vertical             | -44.37             | -13.00      | 31.37       | 127           |
|            | 9        | 16897.50        | -52.13   | 6.10            | 14.60      | Vertical             | -43.63             | -13.00      | 30.63       | 42            |
|            | 10       | 18800.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |
| 20MHz      | 2        | 3742.13         | -42.57   | 2.60            | 12.50      | Vertical             | -32.67             | -13.00      | 19.67       | 90            |
|            | 3        | 5613.38         | -43.05   | 3.30            | 12.50      | Vertical             | -33.85             | -13.00      | 20.85       | 214           |
|            | 4        | 7484.63         | -34.63   | 4.20            | 12.20      | Vertical             | -26.63             | -13.00      | 13.63       | 99            |
|            | 5        | 9355.33         | -43.32   | 4.30            | 11.10      | Vertical             | -36.52             | -13.00      | 23.52       | 174           |
|            | 6        | 11226.39        | -48.15   | 5.90            | 11.90      | Vertical             | -42.15             | -13.00      | 29.15       | 221           |
|            | 7        | 13097.46        | -51.64   | 5.70            | 14.00      | Vertical             | -43.34             | -13.00      | 30.34       | 0             |
|            | 8        | 14968.52        | -50.36   | 5.80            | 13.10      | Vertical             | -43.06             | -13.00      | 30.06       | 14            |
|            | 9        | 16938.59        | -52.21   | 6.10            | 14.60      | Vertical             | -43.71             | -13.00      | 30.71       | 221           |
|            | 10       | 18800.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

## LTE Band 4 CH-Middle

| Band width | Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | Result Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|------------|----------|-----------------|----------|-----------------|------------|----------------------|--------------------|-------------|-------------|---------------|
| 1.4MHz     | 2        | 3464.25         | -63.05   | 2.70            | 12.70      | Vertical             | -53.05             | -13.00      | 40.05       | 180           |
|            | 3        | 5197.50         | -69.51   | 3.20            | 12.50      | Vertical             | -60.21             | -13.00      | 47.21       | 45            |
|            | 4        | 6930.00         | -66.44   | 4.20            | 11.80      | Vertical             | -58.84             | -13.00      | 45.84       | 127           |
|            | 5        | 8662.50         | -63.38   | 4.40            | 12.50      | Vertical             | -55.28             | -13.00      | 42.28       | 33            |
|            | 6        | 10395.00        | -57.86   | 4.70            | 11.30      | Vertical             | -51.26             | -13.00      | 38.26       | 27            |
|            | 7        | 12127.50        | -61.13   | 5.20            | 13.80      | Vertical             | -52.53             | -13.00      | 39.53       | 180           |
|            | 8        | 13860.00        | -55.57   | 5.70            | 11.30      | Vertical             | -49.97             | -13.00      | 36.97       | 99            |
|            | 9        | 15592.00        | -65.30   | 6.10            | 16.80      | Vertical             | -54.60             | -13.00      | 41.60       | 41            |
|            | 10       | 17325.00        | -58.87   | 6.10            | 14.20      | Vertical             | -50.77             | -13.00      | 37.77       | 22            |
| 5MHz       | 2        | 3460.50         | -60.93   | 2.70            | 12.70      | Vertical             | -50.93             | -13.00      | 37.93       | 180           |
|            | 3        | 5191.50         | -69.80   | 3.20            | 12.50      | Vertical             | -60.50             | -13.00      | 47.50       | 99            |
|            | 4        | 6920.00         | -66.10   | 4.20            | 11.80      | Vertical             | -58.50             | -13.00      | 45.50       | 33            |
|            | 5        | 8650.00         | -62.28   | 4.40            | 12.50      | Vertical             | -54.18             | -13.00      | 41.18       | 170           |
|            | 6        | 10380.00        | -59.47   | 4.70            | 11.30      | Vertical             | -52.87             | -13.00      | 39.87       | 225           |
|            | 7        | 12110.00        | -61.14   | 5.20            | 13.80      | Vertical             | -52.54             | -13.00      | 39.54       | 45            |
|            | 8        | 13840.00        | -55.08   | 5.70            | 11.30      | Vertical             | -49.48             | -13.00      | 36.48       | 147           |
|            | 9        | 15570.00        | -64.30   | 6.10            | 16.80      | Vertical             | -53.60             | -13.00      | 40.60       | 27            |
|            | 10       | 17300.00        | -59.19   | 6.10            | 14.20      | Vertical             | -51.09             | -13.00      | 38.09       | 0             |
| 20MHz      | 2        | 3447.75         | -63.29   | 2.70            | 12.70      | Vertical             | -53.29             | -13.00      | 40.29       | 34            |
|            | 3        | 5170.88         | -70.58   | 3.20            | 12.50      | Vertical             | -61.28             | -13.00      | 48.28       | 99            |
|            | 4        | 6894.20         | -67.13   | 4.20            | 11.80      | Vertical             | -59.53             | -13.00      | 46.53       | 180           |
|            | 5        | 8618.20         | -63.60   | 4.40            | 12.50      | Vertical             | -55.50             | -13.00      | 42.50       | 90            |
|            | 6        | 10341.30        | -59.39   | 4.70            | 11.30      | Vertical             | -52.79             | -13.00      | 39.79       | 33            |
|            | 7        | 12064.80        | -62.18   | 5.20            | 13.80      | Vertical             | -53.58             | -13.00      | 40.58       | 170           |
|            | 8        | 13788.90        | -55.15   | 5.70            | 11.30      | Vertical             | -49.55             | -13.00      | 36.55       | 225           |
|            | 9        | 15512.40        | -64.31   | 6.10            | 16.80      | Vertical             | -53.61             | -13.00      | 40.61       | 45            |
|            | 10       | 17239.80        | -59.23   | 6.10            | 14.20      | Vertical             | -51.13             | -13.00      | 38.13       | 147           |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

## LTE Band 5 CH-Middle

| Band width | Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | Result Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|------------|----------|-----------------|----------|-----------------|------------|----------------------|--------------------|-------------|-------------|---------------|
| 1.4MHz     | 2        | 1673.00         | -64.64   | 1.70            | 8.70       | Vertical             | -59.79             | -13.00      | 46.79       | 147           |
|            | 3        | 2509.50         | -50.69   | 2.30            | 12.00      | Vertical             | -43.14             | -13.00      | 30.14       | 27            |
|            | 4        | 3346.00         | -66.97   | 2.70            | 12.70      | Vertical             | -59.12             | -13.00      | 46.12       | 90            |
|            | 5        | 4182.50         | -64.36   | 3.00            | 12.50      | Vertical             | -57.01             | -13.00      | 44.01       | 33            |
|            | 6        | 5019.00         | -62.27   | 3.40            | 12.50      | Vertical             | -55.32             | -13.00      | 42.32       | 99            |
|            | 7        | 5855.50         | -60.43   | 3.40            | 12.80      | Vertical             | -53.18             | -13.00      | 40.18       | 180           |
|            | 8        | 6692.00         | -55.31   | 4.10            | 11.50      | Vertical             | -50.06             | -13.00      | 37.06       | 90            |
|            | 9        | 7528.50         | -52.65   | 4.20            | 12.20      | Vertical             | -46.80             | -13.00      | 33.80       | 33            |
|            | 10       | 8365.00         | -53.29   | 4.30            | 12.50      | Vertical             | -47.24             | -13.00      | 34.24       | 108           |
| 5MHz       | 2        | 1668.60         | -64.05   | 1.70            | 8.70       | Vertical             | -59.20             | -13.00      | 46.20       | 0             |
|            | 3        | 2503.30         | -49.74   | 2.30            | 12.00      | Vertical             | -42.19             | -13.00      | 29.19       | 34            |
|            | 4        | 3337.50         | -67.35   | 2.70            | 12.70      | Vertical             | -59.50             | -13.00      | 46.50       | 127           |
|            | 5        | 4171.88         | -63.54   | 3.00            | 12.50      | Vertical             | -56.19             | -13.00      | 43.19       | 33            |
|            | 6        | 5006.25         | -61.74   | 3.40            | 12.50      | Vertical             | -54.79             | -13.00      | 41.79       | 27            |
|            | 7        | 5840.63         | -59.71   | 3.40            | 12.80      | Vertical             | -52.46             | -13.00      | 39.46       | 180           |
|            | 8        | 6675.00         | -56.55   | 4.10            | 11.50      | Vertical             | -51.30             | -13.00      | 38.30       | 127           |
|            | 9        | 7509.38         | -51.97   | 4.20            | 12.20      | Vertical             | -46.12             | -13.00      | 33.12       | 33            |
|            | 10       | 8343.75         | -53.69   | 4.30            | 12.50      | Vertical             | -47.64             | -13.00      | 34.64       | 27            |
| 10MHz      | 2        | 1664.40         | -65.98   | 1.70            | 8.70       | Vertical             | -61.13             | -13.00      | 48.13       | 99            |
|            | 3        | 2496.60         | -49.60   | 2.30            | 12.00      | Vertical             | -42.05             | -13.00      | 29.05       | 180           |
|            | 4        | 3326.00         | -65.59   | 2.70            | 12.70      | Vertical             | -57.74             | -13.00      | 44.74       | 180           |
|            | 5        | 4157.50         | -64.16   | 3.00            | 12.50      | Vertical             | -56.81             | -13.00      | 43.81       | 99            |
|            | 6        | 4989.00         | -62.64   | 3.40            | 12.50      | Vertical             | -55.69             | -13.00      | 42.69       | 45            |
|            | 7        | 5820.50         | -59.96   | 3.40            | 12.80      | Vertical             | -52.71             | -13.00      | 39.71       | 0             |
|            | 8        | 6652.00         | -55.40   | 4.10            | 11.50      | Vertical             | -50.15             | -13.00      | 37.15       | 227           |
|            | 9        | 7483.50         | -51.91   | 4.20            | 12.20      | Vertical             | -46.06             | -13.00      | 33.06       | 147           |
|            | 10       | 8315.00         | -54.62   | 4.30            | 12.50      | Vertical             | -48.57             | -13.00      | 35.57       | 99            |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

## LTE Band 7 CH-Middle

| Band width | Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | Result Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|------------|----------|-----------------|----------|-----------------|------------|----------------------|--------------------|-------------|-------------|---------------|
| 5MHz       | 2        | 5050.00         | -62.76   | 3.40            | 12.50      | Vertical             | -53.66             | -25.00      | 28.66       | 127           |
|            | 3        | 7575.00         | -54.30   | 4.40            | 12.20      | Vertical             | -46.50             | -25.00      | 21.50       | 33            |
|            | 4        | 10100.00        | -53.40   | 4.70            | 11.30      | Vertical             | -46.80             | -25.00      | 21.80       | 27            |
|            | 5        | 12625.00        | -51.93   | 5.40            | 13.20      | Vertical             | -44.13             | -25.00      | 19.13       | 180           |
|            | 6        | 15150.00        | -51.88   | 6.10            | 13.10      | Vertical             | -44.88             | -25.00      | 19.88       | 99            |
|            | 7        | 17675.00        | -51.35   | 6.10            | 14.20      | Vertical             | -43.25             | -25.00      | 18.25       | 45            |
|            | 8        | 20200.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 9        | 22725.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 10       | 25250.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |
| 20MHz      | 2        | 5065.00         | -61.61   | 3.40            | 12.50      | Vertical             | -52.51             | -25.00      | 27.51       | 227           |
|            | 3        | 7597.50         | -54.42   | 4.40            | 12.20      | Vertical             | -46.62             | -25.00      | 21.62       | 0             |
|            | 4        | 10130.00        | -52.64   | 4.70            | 11.30      | Vertical             | -46.04             | -25.00      | 21.04       | 225           |
|            | 5        | 12662.50        | -52.44   | 5.40            | 13.20      | Vertical             | -44.64             | -25.00      | 19.64       | 45            |
|            | 6        | 15195.00        | -52.76   | 6.10            | 13.10      | Vertical             | -45.76             | -25.00      | 20.76       | 18            |
|            | 7        | 17727.50        | -51.39   | 6.10            | 14.20      | Vertical             | -43.29             | -25.00      | 18.29       | 22            |
|            | 8        | 20260.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 9        | 22792.50        | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 10       | 25325.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

## LTE Band 12 CH-Middle

| Band width | Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | Result Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|------------|----------|-----------------|----------|-----------------|------------|----------------------|--------------------|-------------|-------------|---------------|
| 1.4MHz     | 2        | 1413.60         | -58.38   | 1.70            | 8.70       | Vertical             | -53.53             | -13.00      | 40.53       | 127           |
|            | 3        | 2120.40         | -56.66   | 2.10            | 11.10      | Vertical             | -49.81             | -13.00      | 36.81       | 33            |
|            | 4        | 2827.20         | -60.79   | 2.30            | 13.10      | Vertical             | -52.14             | -13.00      | 39.14       | 27            |
|            | 5        | 3537.50         | -65.73   | 2.60            | 12.70      | Vertical             | -57.78             | -13.00      | 44.78       | 238           |
|            | 6        | 4245.00         | -62.88   | 3.30            | 12.50      | Vertical             | -55.83             | -13.00      | 42.83       | 120           |
|            | 7        | 4952.50         | -63.89   | 3.40            | 12.50      | Vertical             | -56.94             | -13.00      | 43.94       | 90            |
|            | 8        | 5660.00         | -61.05   | 3.30            | 12.50      | Vertical             | -54.00             | -13.00      | 41.00       | 42            |
|            | 9        | 6367.50         | -56.46   | 3.80            | 11.50      | Vertical             | -50.91             | -13.00      | 37.91       | 33            |
|            | 10       | 7075.00         | -51.85   | 4.20            | 11.80      | Vertical             | -46.40             | -13.00      | 33.40       | 180           |
| 5MHz       | 2        | 1410.60         | -60.17   | 1.70            | 8.70       | Vertical             | -55.32             | -13.00      | 42.32       | 180           |
|            | 3        | 2115.90         | -56.38   | 2.10            | 11.10      | Vertical             | -49.53             | -13.00      | 36.53       | 127           |
|            | 4        | 2820.00         | -57.60   | 2.30            | 13.10      | Vertical             | -48.95             | -13.00      | 35.95       | 33            |
|            | 5        | 3525.00         | -62.99   | 2.60            | 12.70      | Vertical             | -55.04             | -13.00      | 42.04       | 27            |
|            | 6        | 4230.00         | -63.69   | 3.30            | 12.50      | Vertical             | -56.64             | -13.00      | 43.64       | 180           |
|            | 7        | 4935.00         | -61.21   | 3.40            | 12.50      | Vertical             | -54.26             | -13.00      | 41.26       | 45            |
|            | 8        | 5640.00         | -60.98   | 3.30            | 12.50      | Vertical             | -53.93             | -13.00      | 40.93       | 238           |
|            | 9        | 6345.00         | -55.94   | 3.80            | 11.50      | Vertical             | -50.39             | -13.00      | 37.39       | 120           |
|            | 10       | 7050.00         | -52.21   | 4.20            | 11.80      | Vertical             | -46.76             | -13.00      | 33.76       | 90            |
| 10MHz      | 2        | 1405.00         | -61.60   | 1.70            | 8.70       | Vertical             | -56.75             | -13.00      | 43.75       | 27            |
|            | 3        | 2107.50         | -58.69   | 2.10            | 11.10      | Vertical             | -51.84             | -13.00      | 38.84       | 180           |
|            | 4        | 2810.00         | -52.48   | 2.30            | 13.10      | Vertical             | -43.83             | -13.00      | 30.83       | 45            |
|            | 5        | 3512.50         | -62.12   | 2.60            | 12.70      | Vertical             | -54.17             | -13.00      | 41.17       | 42            |
|            | 6        | 4215.00         | -62.70   | 3.30            | 12.50      | Vertical             | -55.65             | -13.00      | 42.65       | 33            |
|            | 7        | 4917.50         | -62.43   | 3.40            | 12.50      | Vertical             | -55.48             | -13.00      | 42.48       | 180           |
|            | 8        | 5620.00         | -61.04   | 3.30            | 12.50      | Vertical             | -53.99             | -13.00      | 40.99       | 42            |
|            | 9        | 6322.50         | -57.73   | 3.80            | 11.50      | Vertical             | -52.18             | -13.00      | 39.18       | 99            |
|            | 10       | 7025.00         | -52.44   | 4.20            | 11.80      | Vertical             | -46.99             | -13.00      | 33.99       | 180           |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

## LTE Band 13 CH-Middle

| Band width | Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | Result Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|------------|----------|-----------------|----------|-----------------|------------|----------------------|--------------------|-------------|-------------|---------------|
| 5MHz       | 2        | 1309.09         | -56.17   | 1.70            | 8.70       | Vertical             | -49.17             | -40.00      | 9.17        | 45            |
|            | 3        | 2352.12         | -61.10   | 2.10            | 12.00      | Vertical             | -53.35             | -13.00      | 40.35       | 69            |
|            | 4        | 3118.00         | -66.38   | 2.30            | 13.10      | Vertical             | -57.73             | -13.00      | 44.73       | 180           |
|            | 5        | 3897.50         | -63.71   | 2.90            | 12.50      | Vertical             | -56.26             | -13.00      | 43.26       | 69            |
|            | 6        | 4677.00         | -63.32   | 3.10            | 12.50      | Vertical             | -56.07             | -13.00      | 43.07       | 267           |
|            | 7        | 5456.50         | -61.71   | 3.30            | 12.50      | Vertical             | -54.66             | -13.00      | 41.66       | 42            |
|            | 8        | 6236.00         | -58.99   | 3.50            | 12.80      | Vertical             | -51.84             | -13.00      | 38.84       | 0             |
|            | 9        | 7015.50         | -52.28   | 4.20            | 11.80      | Vertical             | -46.83             | -13.00      | 33.83       | 42            |
|            | 10       | 7795.00         | -53.37   | 4.40            | 12.30      | Vertical             | -47.62             | -13.00      | 34.62       | 42            |
| 10MHz      | 2        | 1569.09         | -72.38   | 1.70            | 8.70       | Vertical             | -65.38             | -40.00      | 25.38       | 42            |
|            | 3        | 2353.56         | -62.00   | 2.10            | 12.00      | Vertical             | -54.25             | -13.00      | 41.25       | 0             |
|            | 4        | 3108.00         | -67.01   | 2.30            | 13.10      | Vertical             | -58.36             | -13.00      | 45.36       | 0             |
|            | 5        | 3885.00         | -63.27   | 2.90            | 12.50      | Vertical             | -55.82             | -13.00      | 42.82       | 42            |
|            | 6        | 4662.00         | -62.40   | 3.10            | 12.50      | Vertical             | -55.15             | -13.00      | 42.15       | 0             |
|            | 7        | 5439.00         | -61.13   | 3.30            | 12.50      | Vertical             | -54.08             | -13.00      | 41.08       | 180           |
|            | 8        | 6216.00         | -58.33   | 3.50            | 12.80      | Vertical             | -51.18             | -13.00      | 38.18       | 22            |
|            | 9        | 6993.00         | -55.66   | 4.20            | 11.80      | Vertical             | -50.21             | -13.00      | 37.21       | 45            |
|            | 10       | 7770.00         | -53.90   | 4.40            | 12.30      | Vertical             | -48.15             | -13.00      | 35.15       | 180           |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

# PCCM Plus 997/987 II

## GSM 1900 CH-Middle

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | Result Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|--------------------|-------------|-------------|---------------|
| 2        | 3760.00         | -65.32   | 2.60            | 12.50      | Vertical             | -55.42             | -13.00      | 42.42       | 180           |
| 3        | 5640.00         | -62.92   | 3.30            | 12.50      | Vertical             | -53.72             | -13.00      | 40.72       | 45            |
| 4        | 7520.00         | -57.35   | 4.20            | 12.20      | Vertical             | -49.35             | -13.00      | 36.35       | 315           |
| 5        | 9400.00         | -54.16   | 4.30            | 11.10      | Vertical             | -47.36             | -13.00      | 34.36       | 270           |
| 6        | 11280.00        | -54.17   | 5.90            | 11.90      | Vertical             | -48.17             | -13.00      | 35.17       | 45            |
| 7        | 13160.00        | -51.86   | 5.70            | 14.00      | Vertical             | -43.56             | -13.00      | 30.56       | 90            |
| 8        | 15040.00        | -55.10   | 5.80            | 13.10      | Vertical             | -47.80             | -13.00      | 34.80       | 0             |
| 9        | 16920.00        | -51.05   | 6.10            | 14.60      | Vertical             | -42.55             | -13.00      | 29.55       | 90            |
| 10       | 18800.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

## WCDMA Band IV CH-Middle

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | Result Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|--------------------|-------------|-------------|---------------|
| 2        | 3465.20         | -75.40   | 2.70            | 12.70      | Vertical             | -65.40             | -13.00      | 52.40       | 90            |
| 3        | 5197.80         | -69.44   | 3.20            | 12.50      | Vertical             | -60.14             | -13.00      | 47.14       | 180           |
| 4        | 6930.40         | -69.42   | 4.20            | 11.80      | Vertical             | -61.82             | -13.00      | 48.82       | 0             |
| 5        | 8663.00         | -62.44   | 4.40            | 12.50      | Vertical             | -54.34             | -13.00      | 41.34       | 0             |
| 6        | 10395.60        | -64.58   | 4.70            | 11.30      | Vertical             | -57.98             | -13.00      | 44.98       | 90            |
| 7        | 12128.20        | -62.66   | 5.20            | 13.80      | Vertical             | -54.06             | -13.00      | 41.06       | 270           |
| 8        | 13860.80        | -58.92   | 5.70            | 11.30      | Vertical             | -53.32             | -13.00      | 40.32       | 45            |
| 9        | 15593.40        | -71.06   | 6.10            | 16.80      | Vertical             | -60.36             | -13.00      | 47.36       | 180           |
| 10       | 17326.00        | -61.36   | 6.10            | 14.20      | Vertical             | -53.26             | -13.00      | 40.26       | 90            |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

## LTE Band 2 CH-Middle

| Band width | Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | Result Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|------------|----------|-----------------|----------|-----------------|------------|----------------------|--------------------|-------------|-------------|---------------|
| 1.4MHz     | 2        | 3759.00         | -49.13   | 2.60            | 12.50      | Vertical             | -39.23             | -13.00      | 26.23       | 45            |
|            | 3        | 5638.88         | -63.00   | 3.30            | 12.50      | Vertical             | -53.80             | -13.00      | 40.80       | 0             |
|            | 4        | 7520.00         | -56.45   | 4.20            | 12.20      | Vertical             | -48.45             | -13.00      | 35.45       | 315           |
|            | 5        | 9400.00         | -55.36   | 4.30            | 11.10      | Vertical             | -48.56             | -13.00      | 35.56       | 90            |
|            | 6        | 11280.00        | -52.30   | 5.90            | 11.90      | Vertical             | -46.30             | -13.00      | 33.30       | 45            |
|            | 7        | 13160.00        | -52.62   | 5.70            | 14.00      | Vertical             | -44.32             | -13.00      | 31.32       | 315           |
|            | 8        | 15040.00        | -55.68   | 5.80            | 13.10      | Vertical             | -48.38             | -13.00      | 35.38       | 0             |
|            | 9        | 16920.00        | -50.98   | 6.10            | 14.60      | Vertical             | -42.48             | -13.00      | 29.48       | 225           |
|            | 10       | 18800.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |
| 5MHz       | 2        | 3755.63         | -48.61   | 2.60            | 12.50      | Vertical             | -38.71             | -13.00      | 25.71       | 270           |
|            | 3        | 5633.63         | -63.06   | 3.30            | 12.50      | Vertical             | -53.86             | -13.00      | 40.86       | 45            |
|            | 4        | 7510.00         | -57.19   | 4.20            | 12.20      | Vertical             | -49.19             | -13.00      | 36.19       | 90            |
|            | 5        | 9387.50         | -53.26   | 4.30            | 11.10      | Vertical             | -46.46             | -13.00      | 33.46       | 315           |
|            | 6        | 11265.00        | -53.25   | 5.90            | 11.90      | Vertical             | -47.25             | -13.00      | 34.25       | 45            |
|            | 7        | 13142.00        | -52.05   | 5.70            | 14.00      | Vertical             | -43.75             | -13.00      | 30.75       | 90            |
|            | 8        | 15020.00        | -55.71   | 5.80            | 13.10      | Vertical             | -48.41             | -13.00      | 35.41       | 270           |
|            | 9        | 16897.50        | -50.62   | 6.10            | 14.60      | Vertical             | -42.12             | -13.00      | 29.12       | 45            |
|            | 10       | 18800.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |
| 20MHz      | 2        | 3742.13         | -53.63   | 2.60            | 12.50      | Vertical             | -43.73             | -13.00      | 30.73       | 0             |
|            | 3        | 5613.38         | -64.42   | 3.30            | 12.50      | Vertical             | -55.22             | -13.00      | 42.22       | 90            |
|            | 4        | 7484.63         | -56.31   | 4.20            | 12.20      | Vertical             | -48.31             | -13.00      | 35.31       | 90            |
|            | 5        | 9355.33         | -53.25   | 4.30            | 11.10      | Vertical             | -46.45             | -13.00      | 33.45       | 45            |
|            | 6        | 11226.39        | -53.35   | 5.90            | 11.90      | Vertical             | -47.35             | -13.00      | 34.35       | 135           |
|            | 7        | 13097.46        | -52.08   | 5.70            | 14.00      | Vertical             | -43.78             | -13.00      | 30.78       | 0             |
|            | 8        | 14968.52        | -54.28   | 5.80            | 13.10      | Vertical             | -46.98             | -13.00      | 33.98       | 135           |
|            | 9        | 16938.59        | -51.09   | 6.10            | 14.60      | Vertical             | -42.59             | -13.00      | 29.59       | 225           |
|            | 10       | 18800.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

## 7 Main Test Instruments

| Name                          | Manufacturer | Type       | Serial Number | Calibration Date | Expiration Date |
|-------------------------------|--------------|------------|---------------|------------------|-----------------|
| Wireless Communication Tester | Anritsu      | MT8821C    | 6201538758    | 2024-05-07       | 2025-05-06      |
|                               |              |            |               | 2025-05-06       | 2026-05-05      |
| Spectrum Analyzer             | Keysight     | N9020A     | MY52330084    | 2024-05-07       | 2025-05-06      |
|                               |              |            |               | 2025-05-06       | 2026-05-05      |
| Spectrum Analyzer             | R&S          | FSV3030    | 101411        | 2024-12-02       | 2025-12-01      |
| Spectrum Analyzer             | R&S          | FSV30      | 100815        | 2024-12-02       | 2025-12-01      |
| Loop Antenna                  | SCHWARZBECK  | FMZB1519   | 1519-047      | 2023-04-16       | 2026-04-15      |
| TRILOG Broadband Antenna      | SCHWARZBECK  | VULB 9163  | 391           | 2022-09-29       | 2025-09-28      |
| Horn Antenna                  | SCHWARZBECK  | BBHA 9120D | 1594          | 2023-12-05       | 2026-12-04      |
| Horn Antenna                  | ETS-Lindgren | 3160-09    | 00102643      | 2024-09-24       | 2027-09-23      |
| Software                      | R&S          | EMC32      | 10.35.10      | /                | /               |

## ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

## ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

\*\*\*\*\* END OF REPORT \*\*\*\*\*