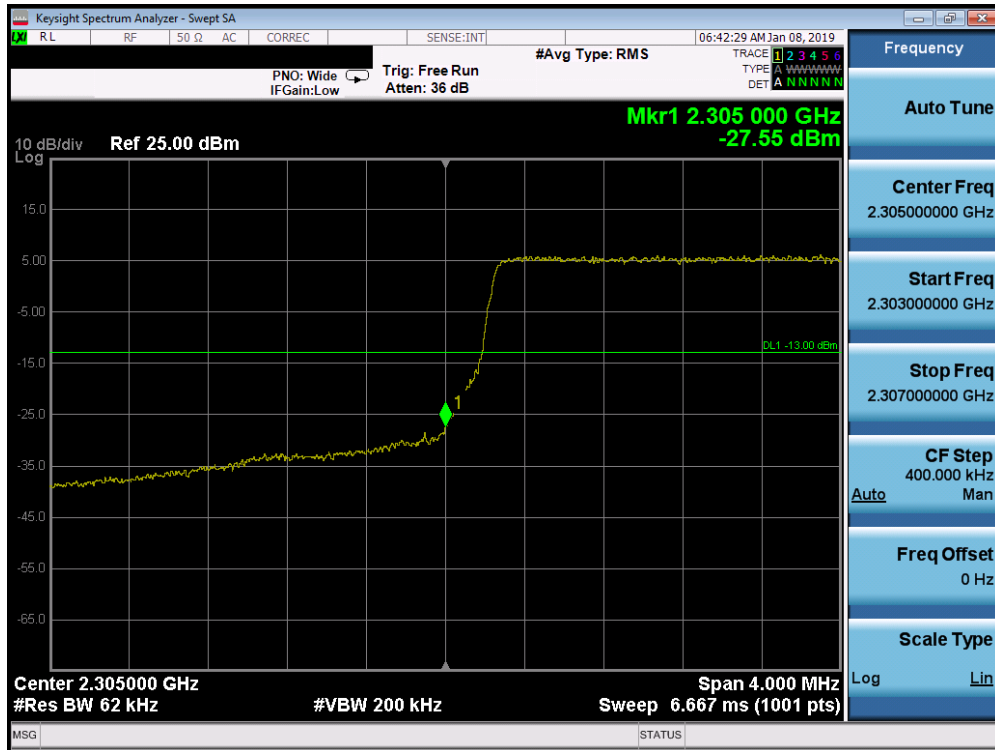
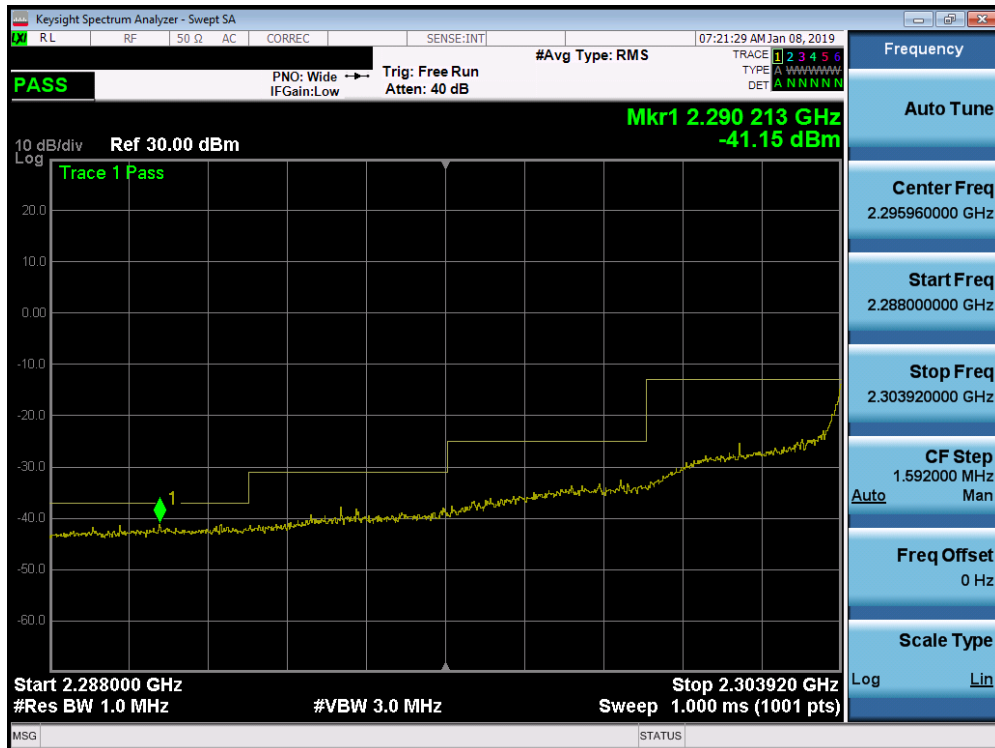


## Band 30



Plot 7-326. Lower Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-327. Lower Extended Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)

|                                            |                                               |                                       |                                 |
|--------------------------------------------|-----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device            | Page 192 of 363                 |

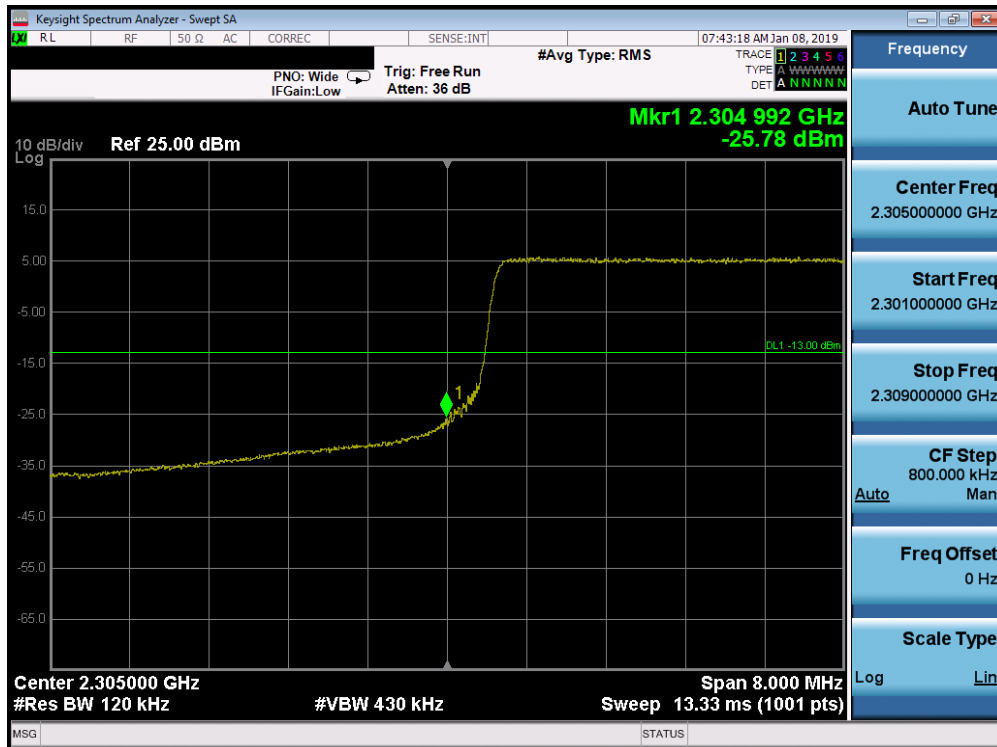


Plot 7-328. Upper Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-329. Upper Extended Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)

|                                            |                                           |                            |                                 |
|--------------------------------------------|-------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019      | EUT Type:<br>Tablet Device | Page 193 of 363                 |

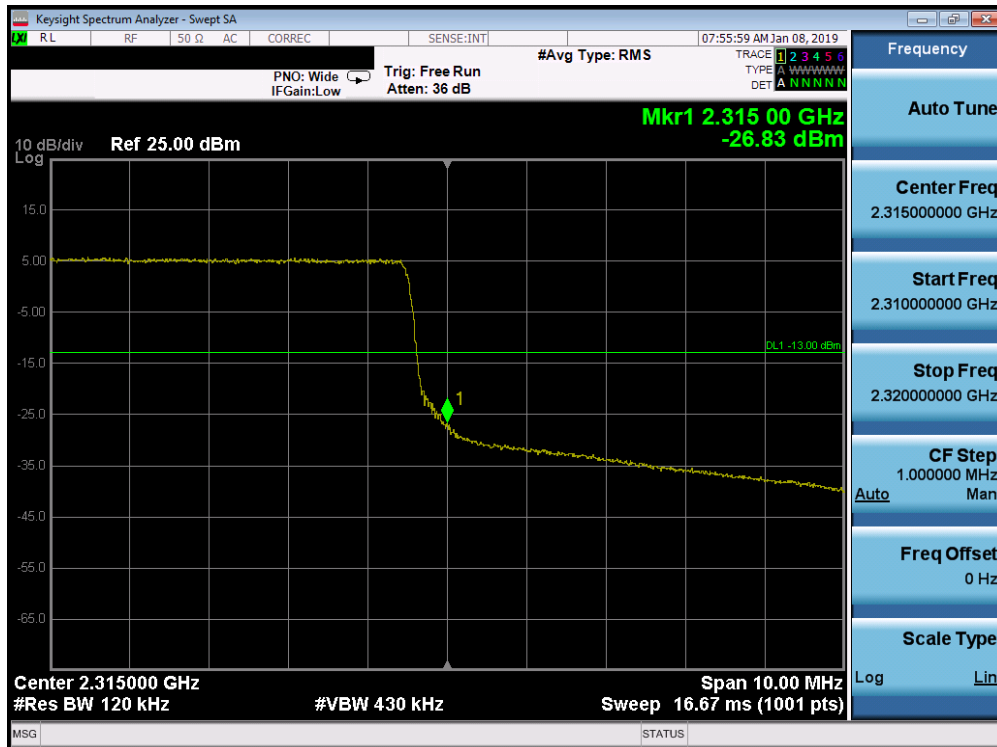


Plot 7-330. Lower Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-331. Lower Extended Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

|                                            |                                                                                                                                   |                            |                                 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019                                                                                              | EUT Type:<br>Tablet Device | Page 194 of 363                 |



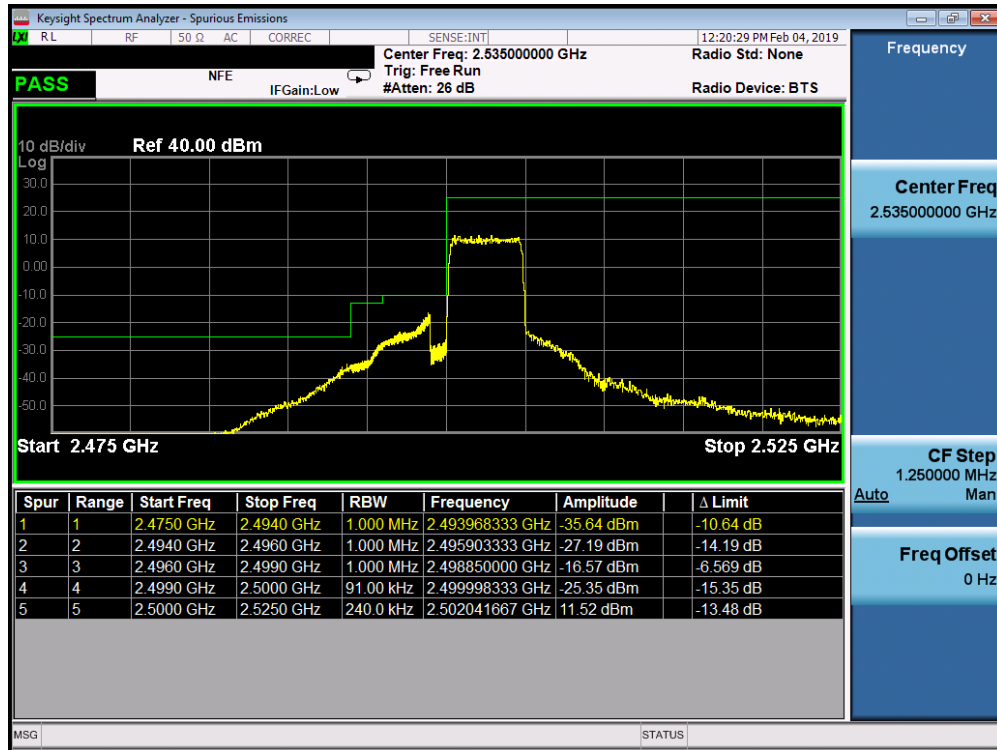
Plot 7-332. Upper Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)



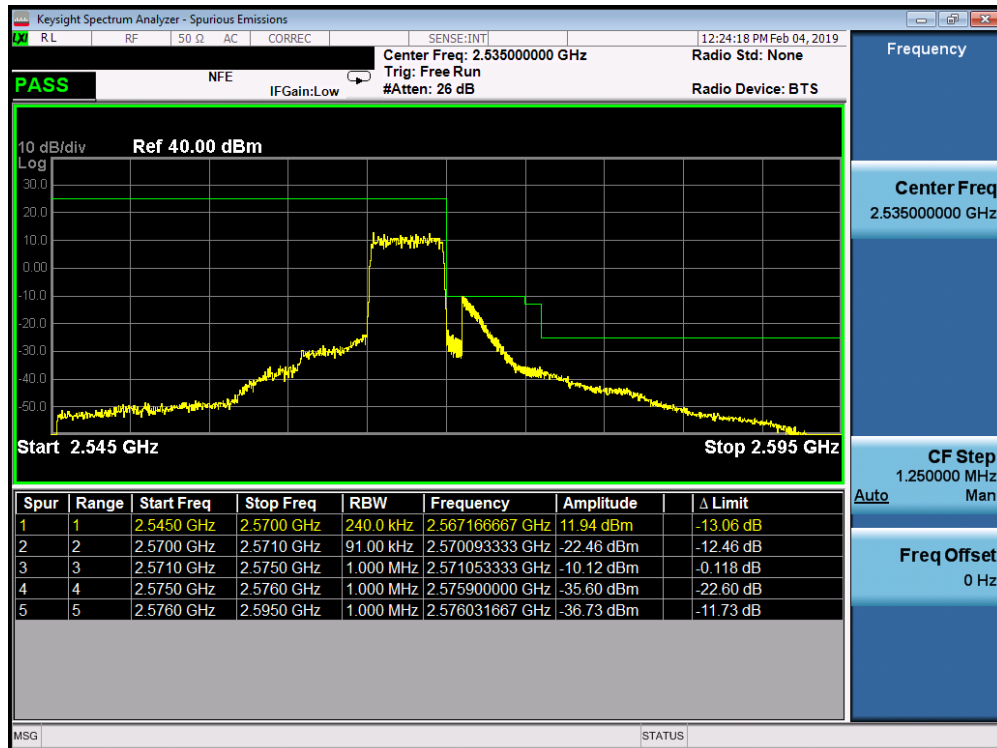
Plot 7-333. Upper Extended Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

|                                            |                                               |                                       |                                 |
|--------------------------------------------|-----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device            | Page 195 of 363                 |

## Band 7

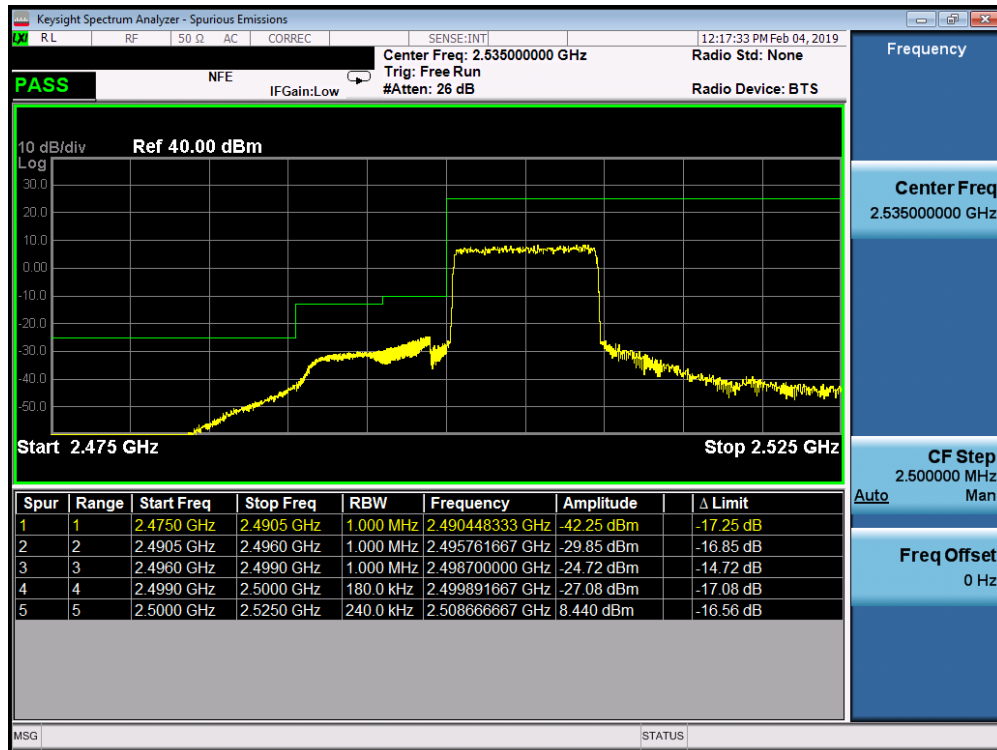


Plot 7-334. Lower ACP Plot (Band 7 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-335. Upper ACP Plot (Band 7 - 5.0MHz QPSK - Full RB Configuration)

|                                            |                                              |                            |                                 |
|--------------------------------------------|----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019         | EUT Type:<br>Tablet Device | Page 196 of 363                 |

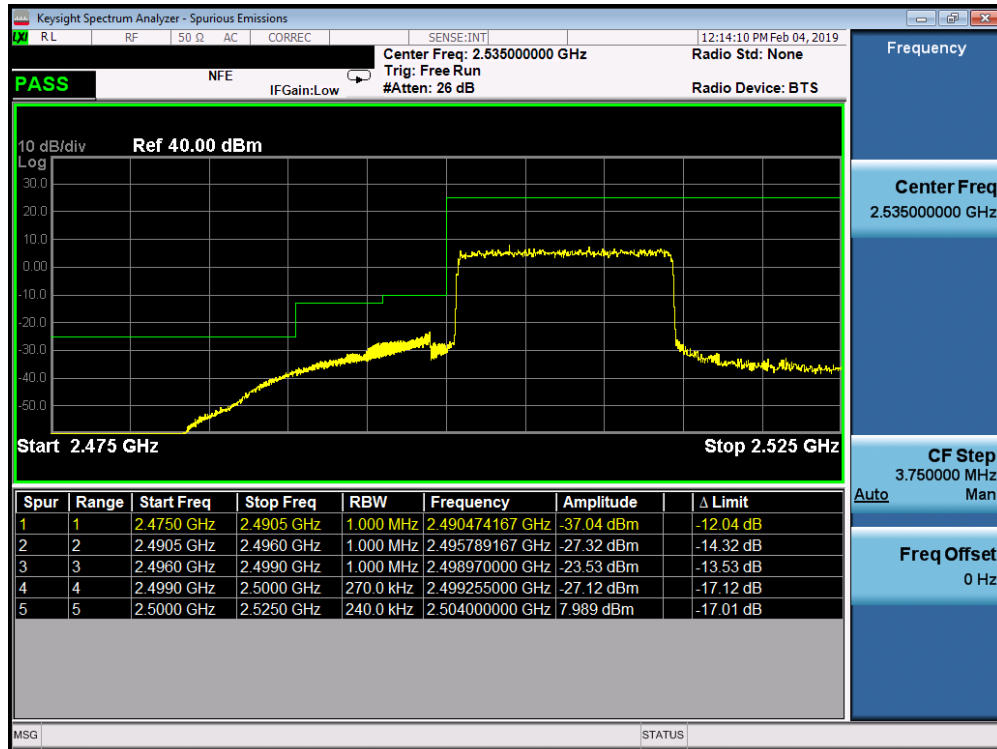


Plot 7-336. Lower ACP Plot (Band 7 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-337. Upper ACP Plot (Band 7 - 10.0MHz QPSK - Full RB Configuration)

|                                            |                                              |                            |                                 |
|--------------------------------------------|----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019         | EUT Type:<br>Tablet Device | Page 197 of 363                 |



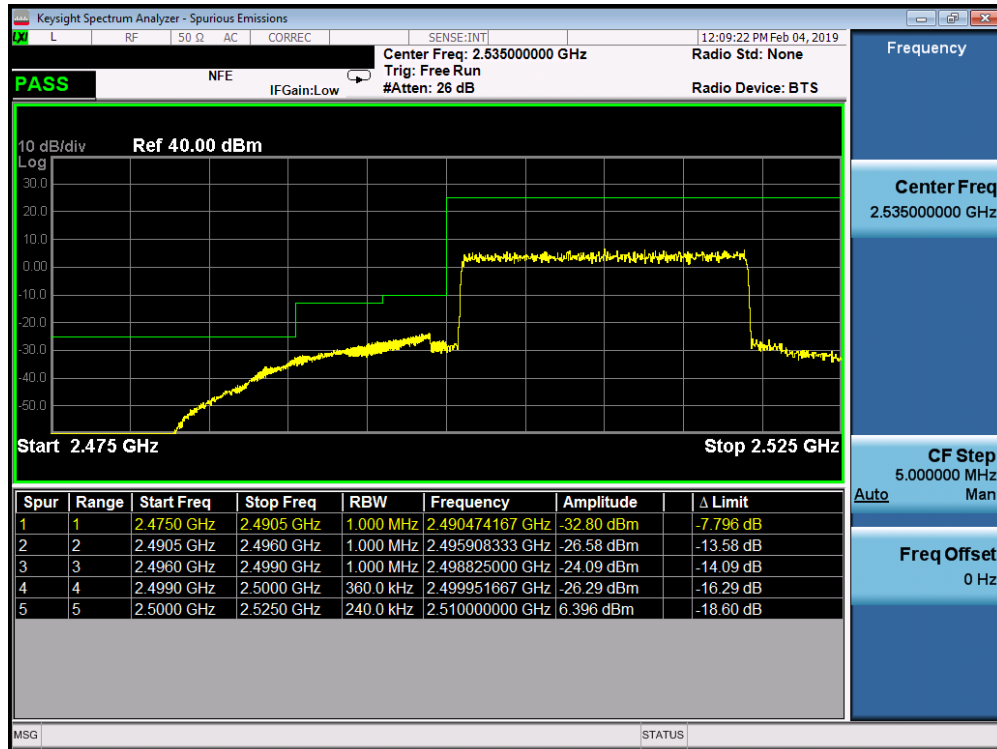
Plot 7-338. Lower ACP Plot (Band 7 - 15.0MHz QPSK - Full RB Configuration)



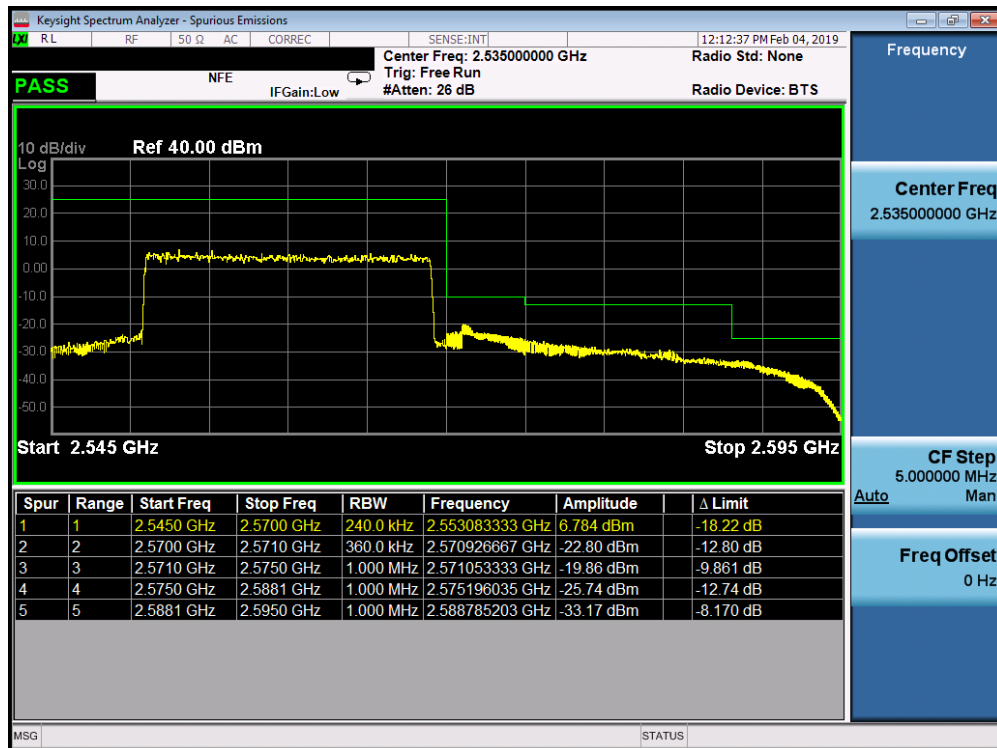
Plot 7-339. Upper ACP Plot (Band 7 - 15.0MHz QPSK - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 198 of 363                 |





Plot 7-340. Lower ACP Plot (Band 7 - 20.0MHz QPSK - Full RB Configuration)

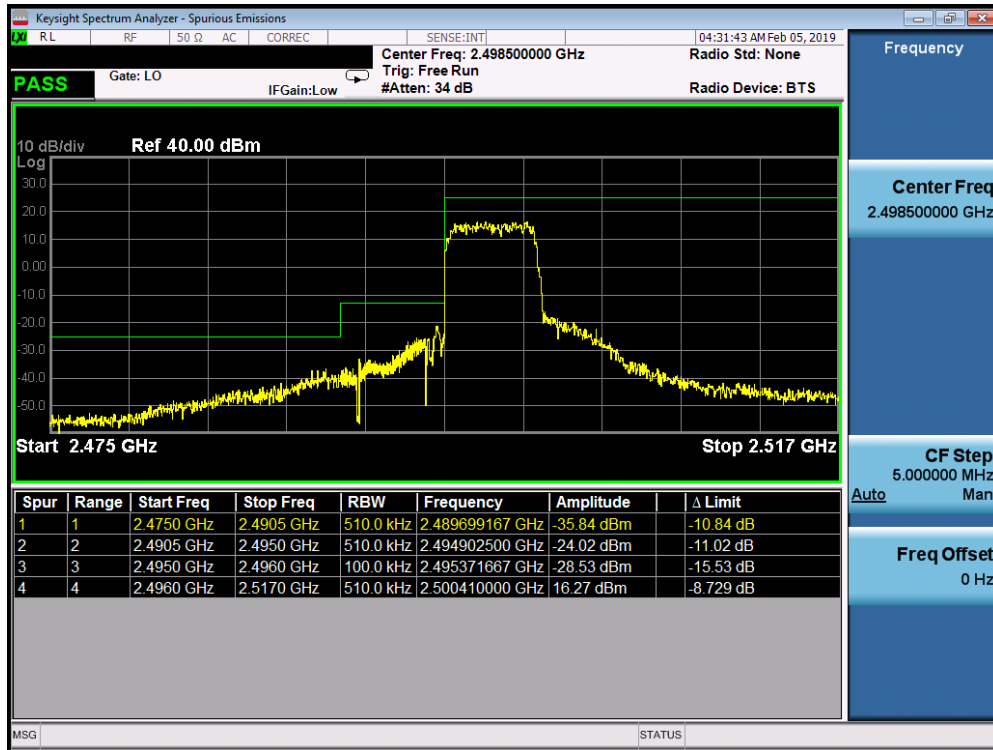


Plot 7-341. Upper ACP Plot (Band 7 - 20.0MHz QPSK - Full RB Configuration)

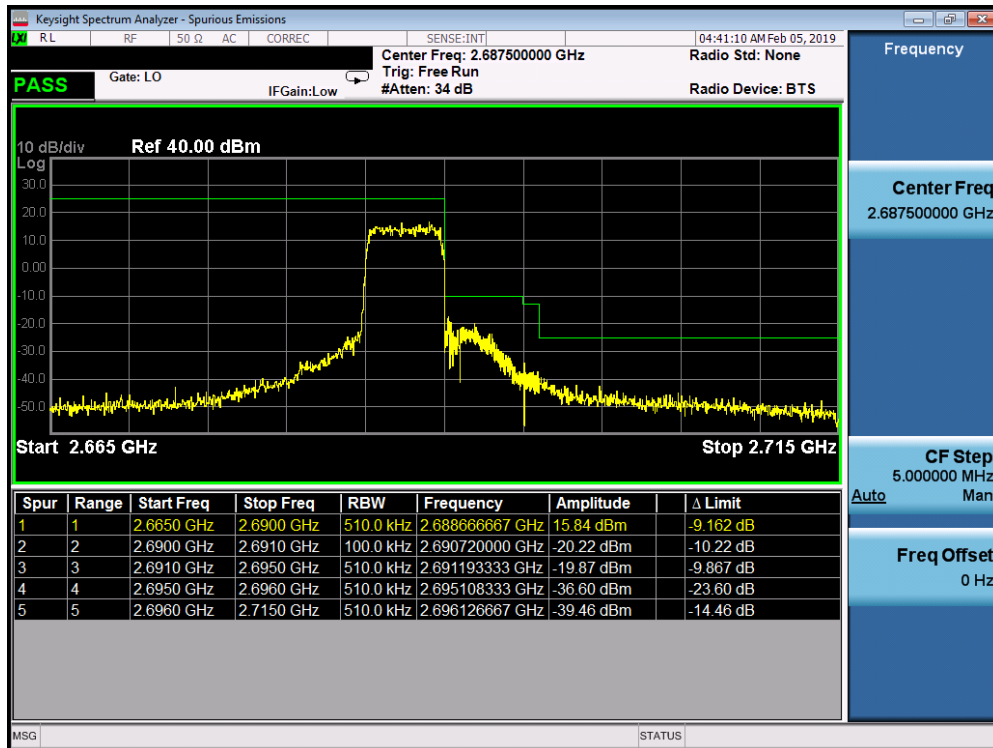
|                                            |                                              |                            |                                 |
|--------------------------------------------|----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019         | EUT Type:<br>Tablet Device |                                 |
|                                            |                                              |                            | Page 199 of 363                 |



## Band 41

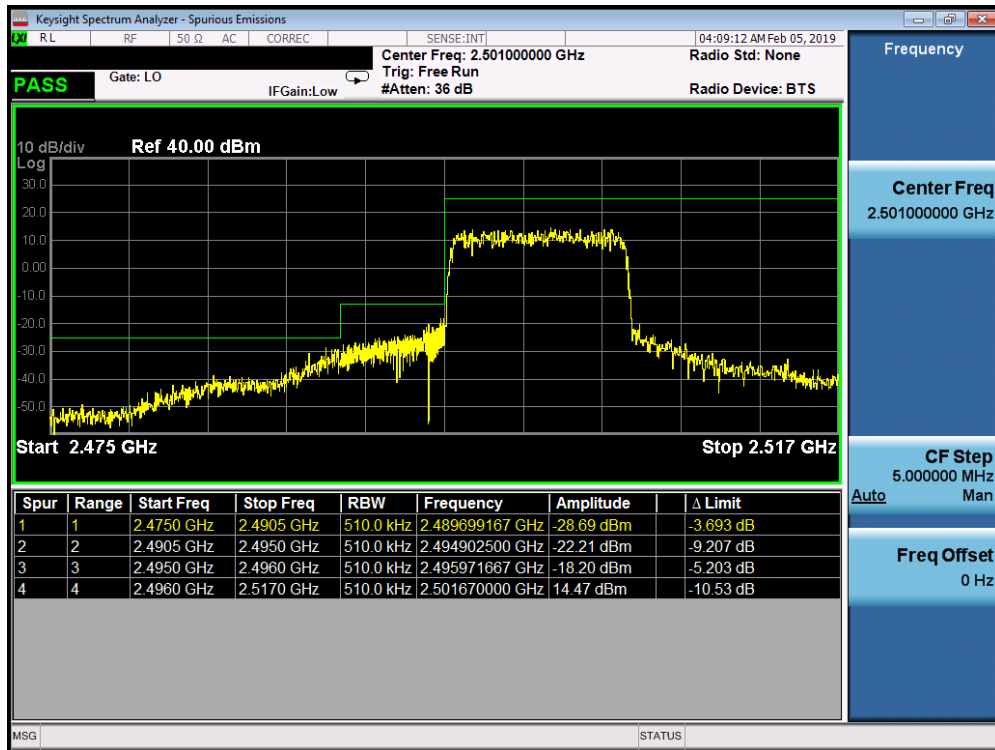


Plot 7-346. Lower ACP Plot (Band 41 - 5.0MHz QPSK - Full RB Configuration)

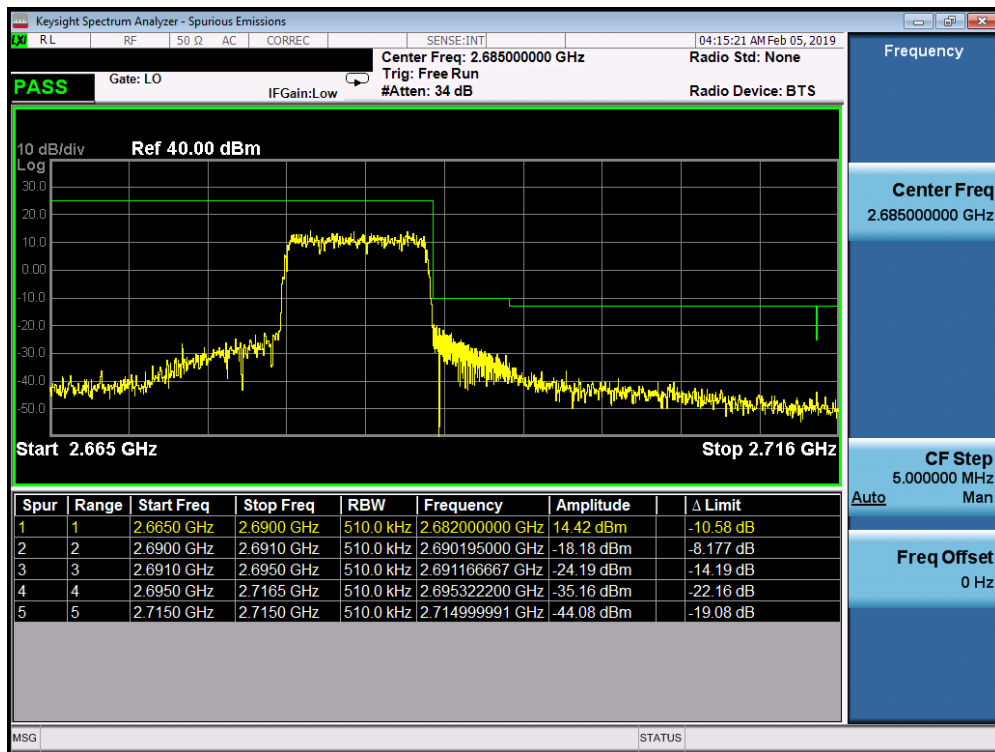


Plot 7-347. Upper ACP Plot (Band 41 - 5.0MHz QPSK - Full RB Configuration)

|                                            |                                              |                            |                                 |
|--------------------------------------------|----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019         | EUT Type:<br>Tablet Device | Page 200 of 363                 |

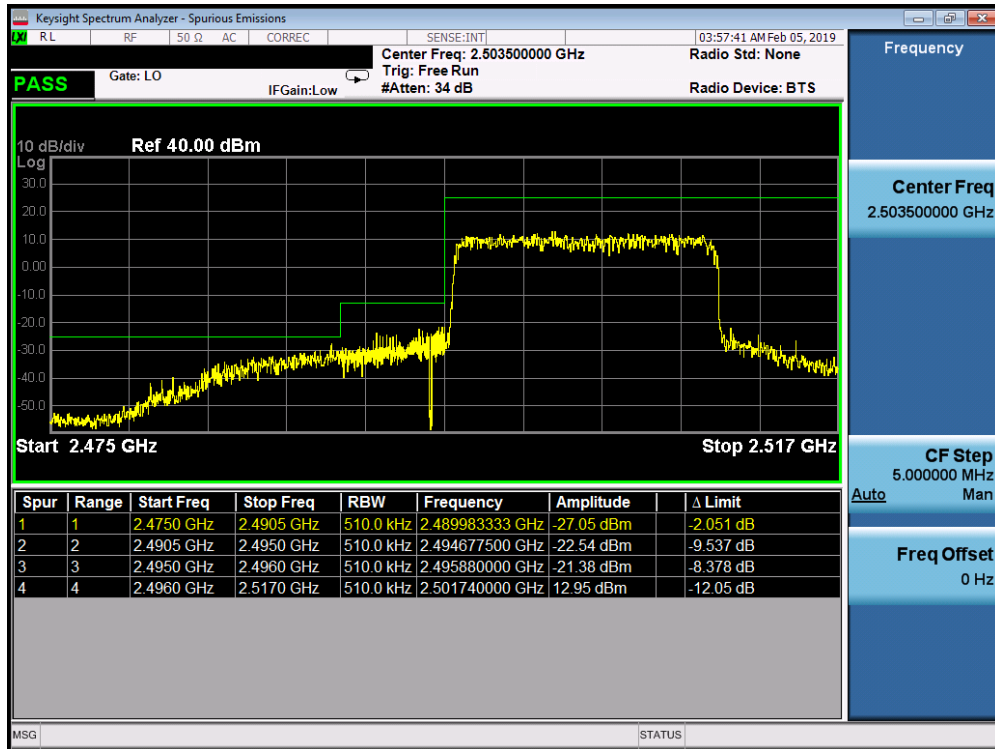


Plot 7-348. Lower ACP Plot (Band 41 - 10.0MHz QPSK - Full RB Configuration)

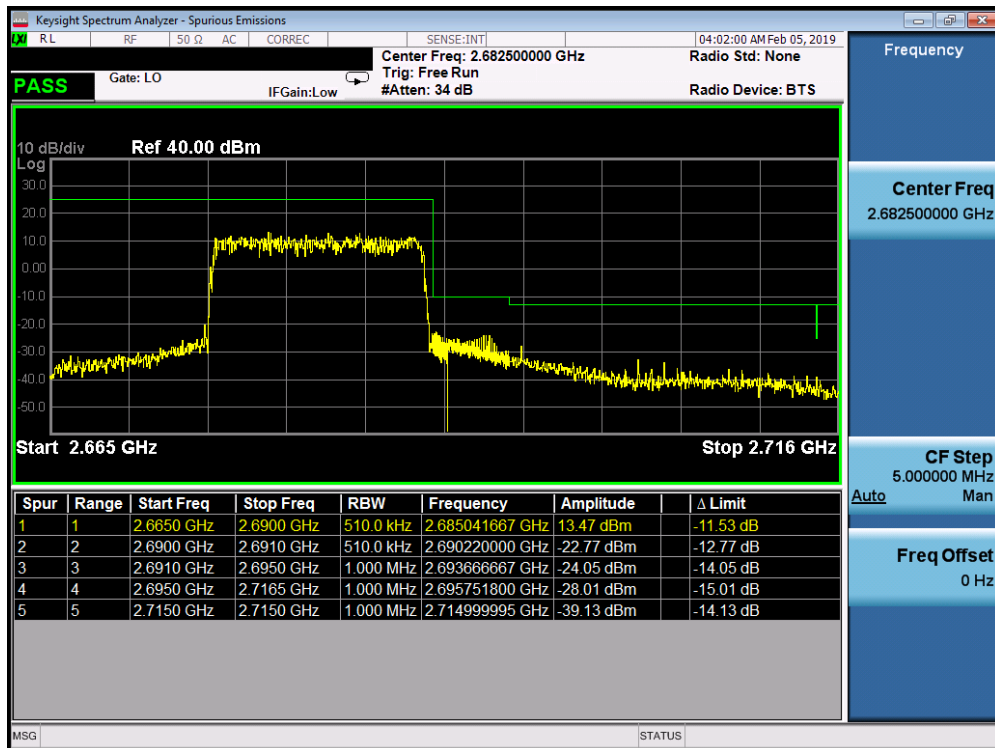


Plot 7-349. Upper ACP Plot (Band 41 - 10.0MHz QPSK - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 201 of 363                 |

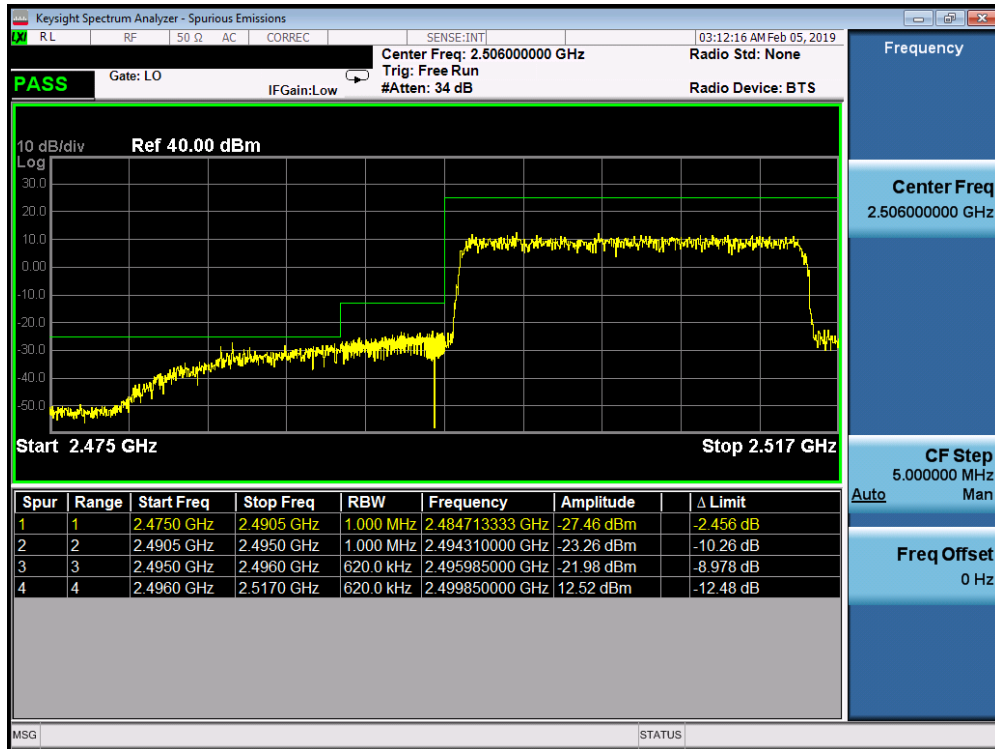


Plot 7-350. Lower ACP Plot (Band 41 - 15.0MHz QPSK - Full RB Configuration)

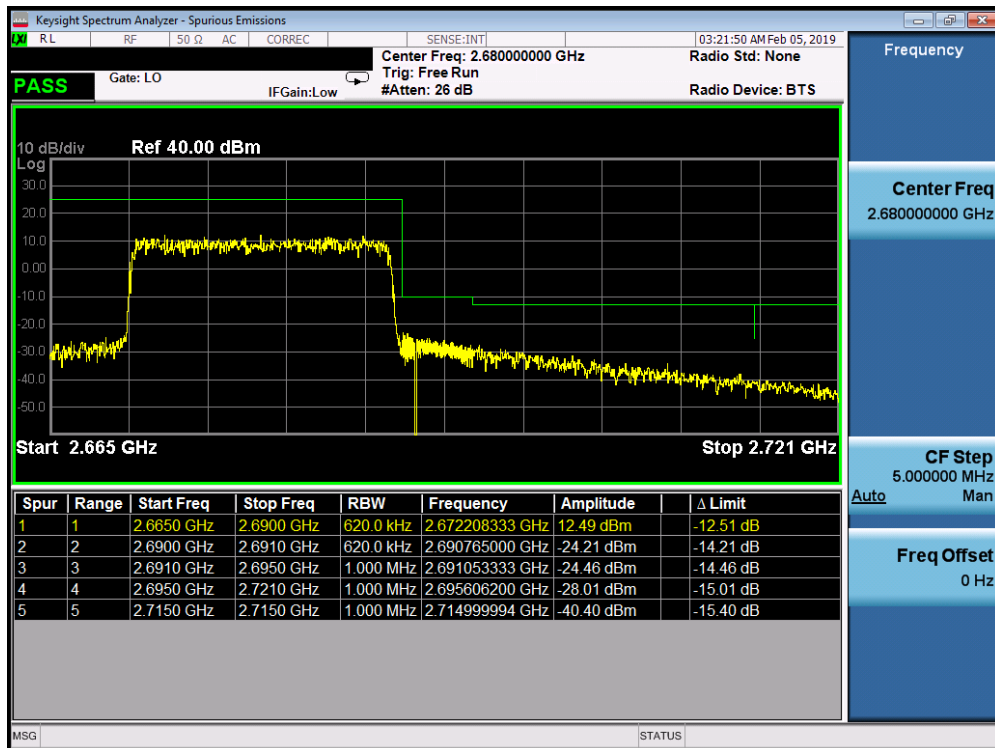


Plot 7-351. Upper ACP Plot (Band 41 - 15.0MHz QPSK - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 202 of 363                 |



Plot 7-352. Lower ACP Plot (Band 41 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-353. Upper ACP Plot (Band 41 - 20.0MHz QPSK - Full RB Configuration)

|                                            |                                                                                                                                  |                            |                                 |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           |  <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019                                                                                             | EUT Type:<br>Tablet Device | Page 203 of 363                 |

## 7.5 Peak-Average Ratio

### Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

### Test Procedure Used

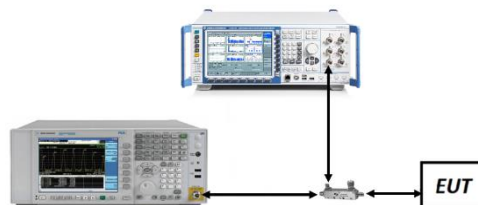
KDB 971168 D01 v03r01 – Section 5.7.1

### Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW  $\geq$  OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-4. Test Instrument & Measurement Setup**

### Test Notes

None.

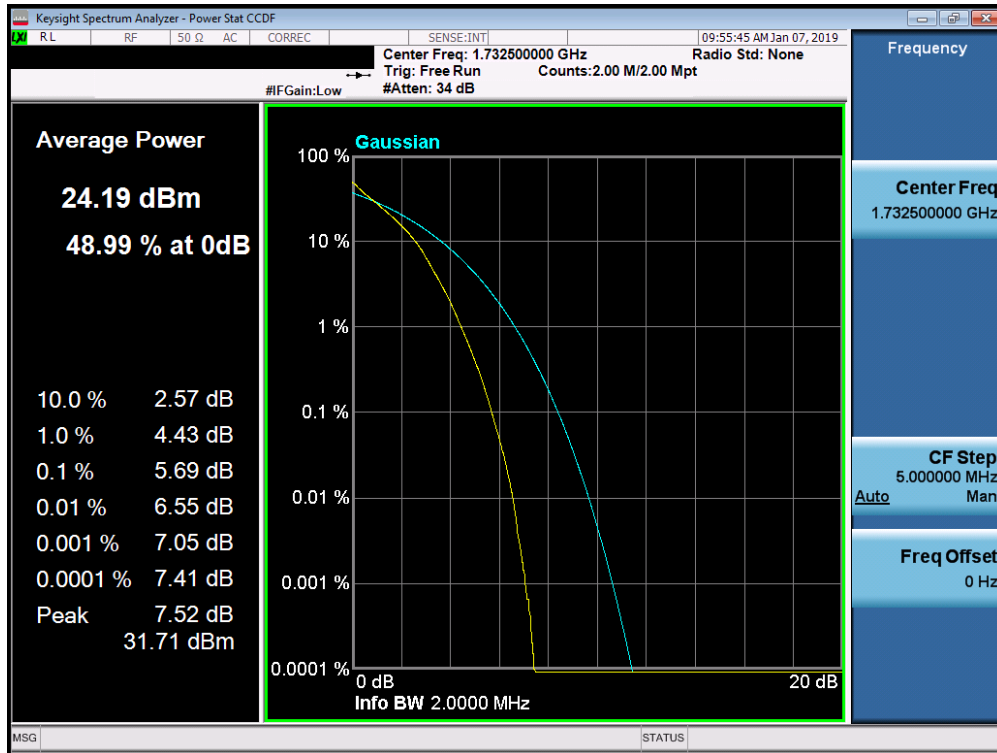
|                                            |                                                                                                                                   |                            |                                 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019                                                                                              | EUT Type:<br>Tablet Device | Page 204 of 363                 |

| Mode        | BW (MHz) | Modulation | Average Power [dBm] | PAR at 0.1% [dB] | Limit [dB] | Margin [dB] |
|-------------|----------|------------|---------------------|------------------|------------|-------------|
| LTE Band 4  | 1.4      | QPSK       | 24.19               | 5.69             | 13         | -7.31       |
| LTE Band 4  | 1.4      | 16QAM      | 23.21               | 6.41             | 13         | -6.59       |
| LTE Band 4  | 1.4      | 64QAM      | 22.23               | 6.65             | 13         | -6.35       |
| LTE Band 4  | 3        | QPSK       | 24.20               | 5.74             | 13         | -7.26       |
| LTE Band 4  | 3        | 16QAM      | 23.21               | 6.4              | 13         | -6.60       |
| LTE Band 4  | 3        | 64QAM      | 22.18               | 6.62             | 13         | -6.38       |
| LTE Band 4  | 5        | QPSK       | 24.23               | 5.74             | 13         | -7.26       |
| LTE Band 4  | 5        | 16QAM      | 23.23               | 6.42             | 13         | -6.58       |
| LTE Band 4  | 5        | 64QAM      | 22.25               | 6.52             | 13         | -6.48       |
| LTE Band 4  | 10       | QPSK       | 24.16               | 5.71             | 13         | -7.29       |
| LTE Band 4  | 10       | 16QAM      | 23.16               | 6.36             | 13         | -6.64       |
| LTE Band 4  | 10       | 64QAM      | 22.11               | 6.56             | 13         | -6.44       |
| LTE Band 4  | 15       | QPSK       | 24.21               | 5.94             | 13         | -7.06       |
| LTE Band 4  | 15       | 16QAM      | 23.14               | 6.40             | 13         | -6.60       |
| LTE Band 4  | 15       | 64QAM      | 22.11               | 6.52             | 13         | -6.48       |
| LTE Band 4  | 20       | QPSK       | 24.22               | 5.58             | 13         | -7.42       |
| LTE Band 4  | 20       | 16QAM      | 23.24               | 6.30             | 13         | -6.70       |
| LTE Band 4  | 20       | 64QAM      | 22.13               | 6.51             | 13         | -6.49       |
| LTE Band 66 | 1.4      | QPSK       | 24.10               | 5.64             | 13         | -7.36       |
| LTE Band 66 | 1.4      | 16QAM      | 23.10               | 6.39             | 13         | -6.61       |
| LTE Band 66 | 1.4      | 64QAM      | 22.12               | 6.57             | 13         | -6.43       |
| LTE Band 66 | 3        | QPSK       | 24.14               | 5.68             | 13         | -7.32       |
| LTE Band 66 | 3        | 16QAM      | 23.07               | 6.42             | 13         | -6.58       |
| LTE Band 66 | 3        | 64QAM      | 22.08               | 6.60             | 13         | -6.40       |
| LTE Band 66 | 5        | QPSK       | 24.20               | 5.66             | 13         | -7.34       |
| LTE Band 66 | 5        | 16QAM      | 23.14               | 6.35             | 13         | -6.65       |
| LTE Band 66 | 5        | 64QAM      | 22.10               | 6.57             | 13         | -6.43       |
| LTE Band 66 | 10       | QPSK       | 24.16               | 5.66             | 13         | -7.34       |
| LTE Band 66 | 10       | 16QAM      | 23.10               | 6.36             | 13         | -6.64       |
| LTE Band 66 | 10       | 64QAM      | 22.12               | 6.45             | 13         | -6.55       |
| LTE Band 66 | 15       | QPSK       | 24.09               | 6.02             | 13         | -6.98       |
| LTE Band 66 | 15       | 16QAM      | 23.14               | 6.34             | 13         | -6.66       |
| LTE Band 66 | 15       | 64QAM      | 22.06               | 6.52             | 13         | -6.48       |
| LTE Band 66 | 20       | QPSK       | 24.20               | 5.69             | 13         | -7.31       |
| LTE Band 66 | 20       | 16QAM      | 23.18               | 6.35             | 13         | -6.65       |
| LTE Band 66 | 20       | 64QAM      | 22.06               | 6.61             | 13         | -6.39       |
| LTE Band 2  | 1.4      | QPSK       | 24.24               | 5.90             | 13         | -7.10       |
| LTE Band 2  | 1.4      | 16QAM      | 23.30               | 6.64             | 13         | -6.36       |
| LTE Band 2  | 1.4      | 64QAM      | 22.27               | 6.88             | 13         | -6.12       |
| LTE Band 2  | 3        | QPSK       | 24.22               | 5.83             | 13         | -7.17       |
| LTE Band 2  | 3        | 16QAM      | 23.24               | 6.60             | 13         | -6.40       |
| LTE Band 2  | 3        | 64QAM      | 22.24               | 6.82             | 13         | -6.18       |
| LTE Band 2  | 5        | QPSK       | 24.25               | 5.85             | 13         | -7.15       |
| LTE Band 2  | 5        | 16QAM      | 23.31               | 6.56             | 13         | -6.44       |
| LTE Band 2  | 5        | 64QAM      | 22.27               | 6.78             | 13         | -6.22       |
| LTE Band 2  | 10       | QPSK       | 24.33               | 5.87             | 13         | -7.13       |
| LTE Band 2  | 10       | 16QAM      | 23.24               | 6.62             | 13         | -6.38       |
| LTE Band 2  | 10       | 64QAM      | 22.28               | 6.82             | 13         | -6.18       |
| LTE Band 2  | 15       | QPSK       | 24.30               | 6.16             | 13         | -6.84       |
| LTE Band 2  | 15       | 16QAM      | 23.39               | 6.57             | 13         | -6.43       |
| LTE Band 2  | 15       | 64QAM      | 22.35               | 6.76             | 13         | -6.24       |
| LTE Band 2  | 20       | QPSK       | 24.49               | 5.67             | 13         | -7.33       |
| LTE Band 2  | 20       | 16QAM      | 23.36               | 6.57             | 13         | -6.43       |
| LTE Band 2  | 20       | 64QAM      | 22.41               | 6.71             | 13         | -6.29       |
| LTE Band 25 | 1.4      | QPSK       | 24.25               | 5.93             | 13         | -7.07       |
| LTE Band 25 | 1.4      | 16QAM      | 23.33               | 6.66             | 13         | -6.34       |
| LTE Band 25 | 1.4      | 64QAM      | 22.35               | 6.86             | 13         | -6.14       |
| LTE Band 25 | 3        | QPSK       | 24.29               | 5.82             | 13         | -7.18       |
| LTE Band 25 | 3        | 16QAM      | 23.29               | 6.57             | 13         | -6.43       |
| LTE Band 25 | 3        | 64QAM      | 22.30               | 6.84             | 13         | -6.16       |
| LTE Band 25 | 5        | QPSK       | 24.34               | 5.85             | 13         | -7.15       |
| LTE Band 25 | 5        | 16QAM      | 23.34               | 6.57             | 13         | -6.43       |
| LTE Band 25 | 5        | 64QAM      | 22.34               | 6.78             | 13         | -6.22       |
| LTE Band 25 | 10       | QPSK       | 24.32               | 5.86             | 13         | -7.14       |
| LTE Band 25 | 10       | 16QAM      | 23.31               | 6.65             | 13         | -6.35       |
| LTE Band 25 | 10       | 64QAM      | 22.31               | 6.83             | 13         | -6.17       |
| LTE Band 25 | 15       | QPSK       | 24.32               | 6.15             | 13         | -6.85       |
| LTE Band 25 | 15       | 16QAM      | 23.39               | 6.60             | 13         | -6.40       |
| LTE Band 25 | 15       | 64QAM      | 22.36               | 6.77             | 13         | -6.23       |
| LTE Band 25 | 20       | QPSK       | 24.33               | 5.81             | 13         | -7.19       |
| LTE Band 25 | 20       | 16QAM      | 23.40               | 6.52             | 13         | -6.48       |
| LTE Band 25 | 20       | 64QAM      | 22.40               | 6.75             | 13         | -6.25       |

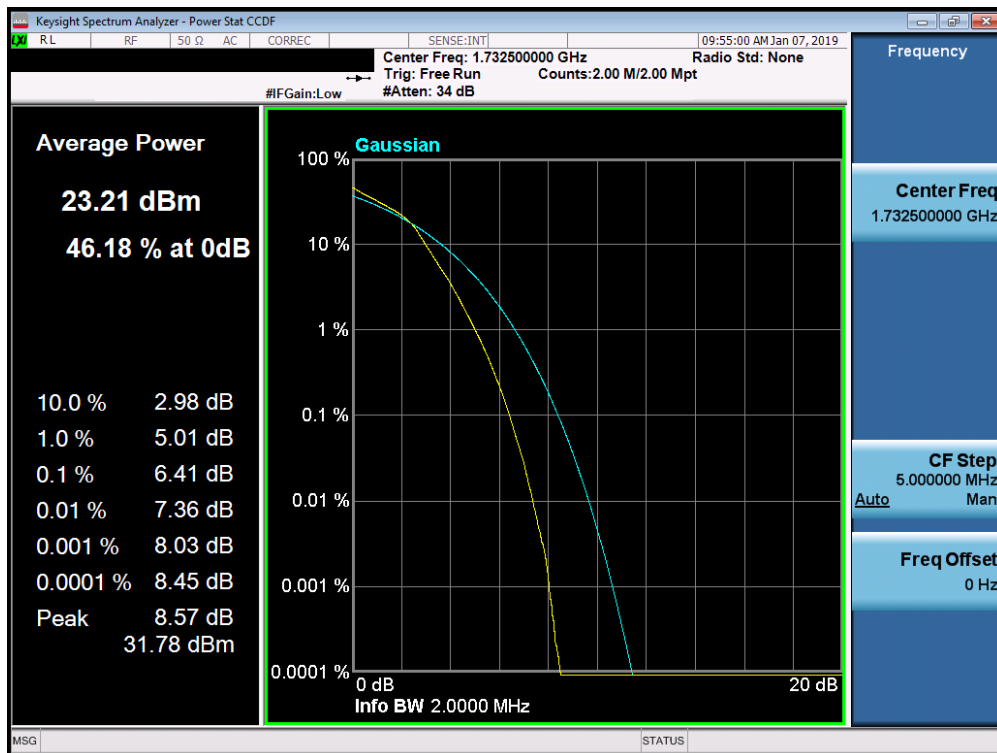
**Table 7-6. PAR Table**

|                                                   |                                                                                                                                   |                                   |                                        |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------|
| <b>FCC ID:</b> BCGA2153                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                                   | <b>Approved by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>1C1811080028-03-R1.BCG | <b>Test Dates:</b><br>11/09/2018-02/06/2019                                                                                       | <b>EUT Type:</b><br>Tablet Device | Page 205 of 363                        |

## Band 4



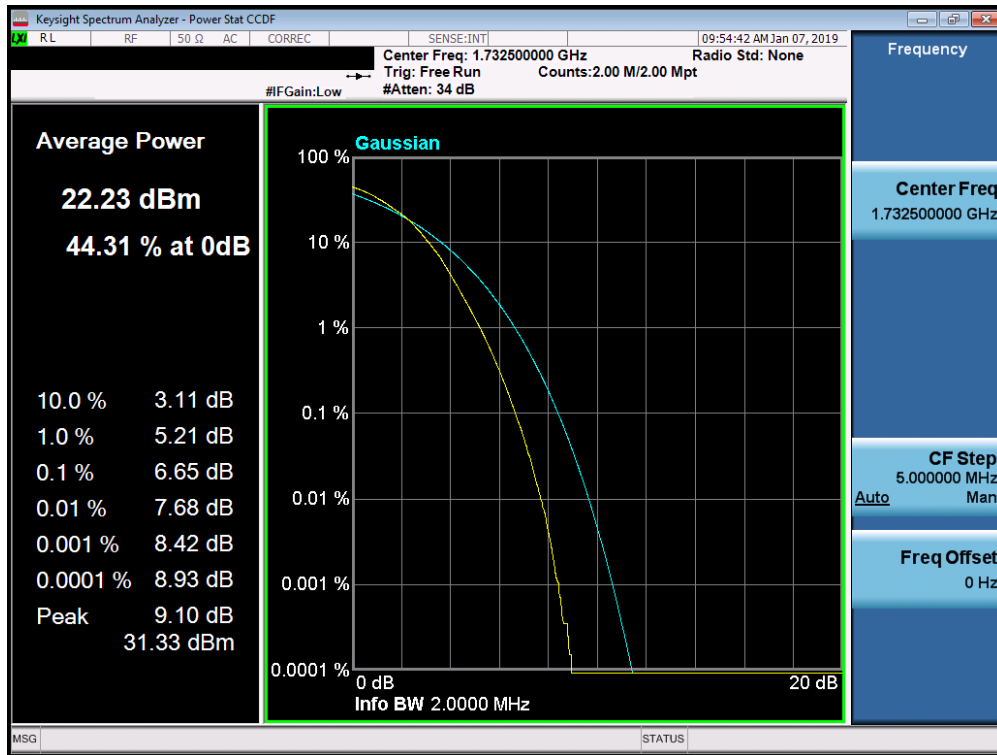
Plot 7-342. PAR Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)



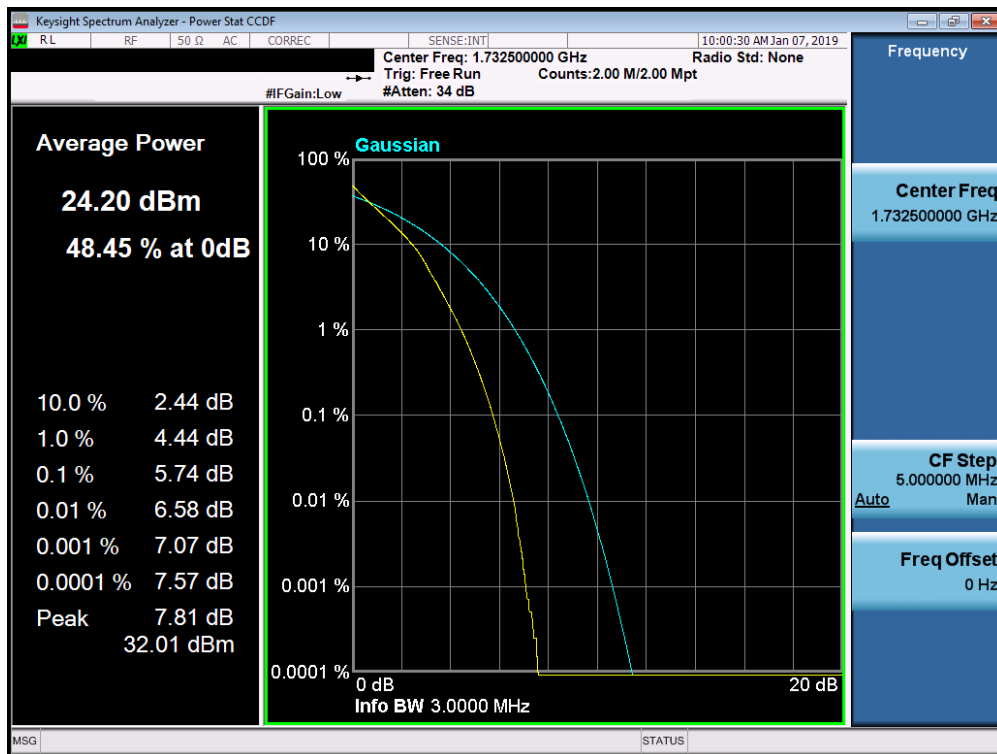
Plot 7-343. PAR Plot (Band 4 - 1.4MHz 16-QAM - Full RB Configuration)

|                                            |                                           |                            |                                 |
|--------------------------------------------|-------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019      | EUT Type:<br>Tablet Device | Page 206 of 363                 |



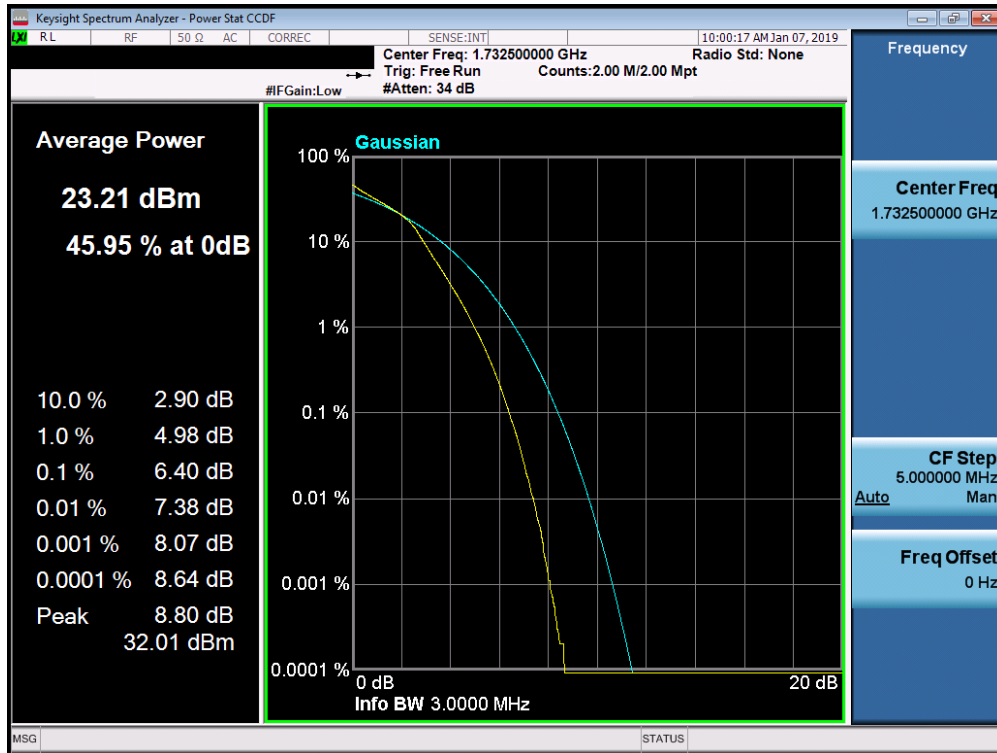


Plot 7-344. PAR Plot (Band 4 - 1.4MHz 64-QAM - Full RB Configuration)

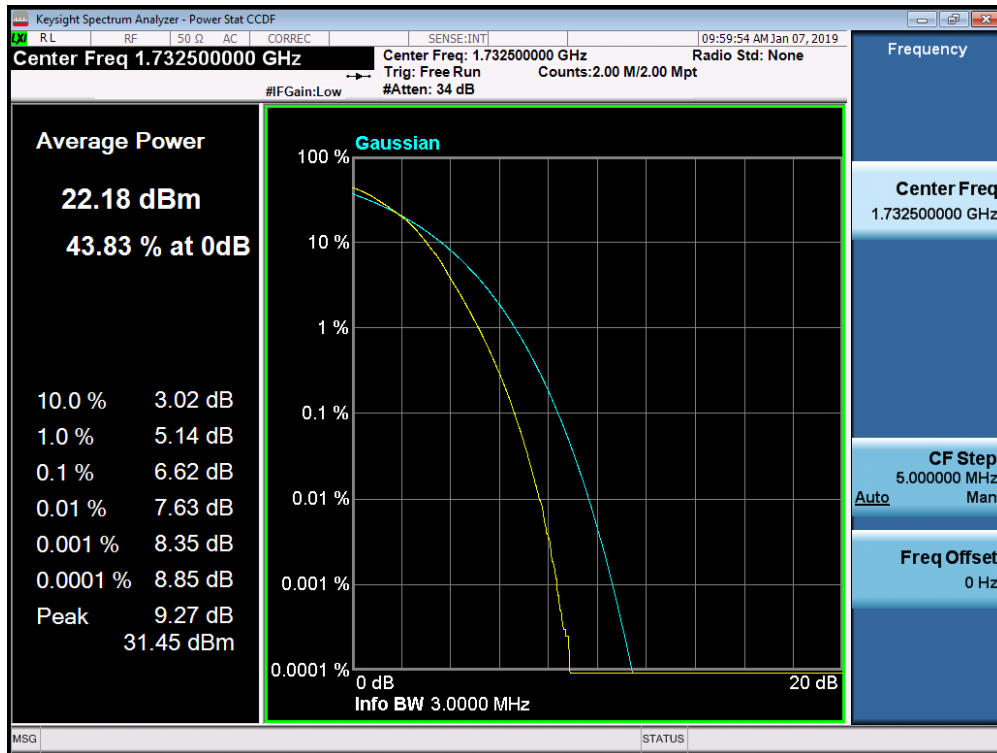


Plot 7-345. PAR Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 207 of 363                 |

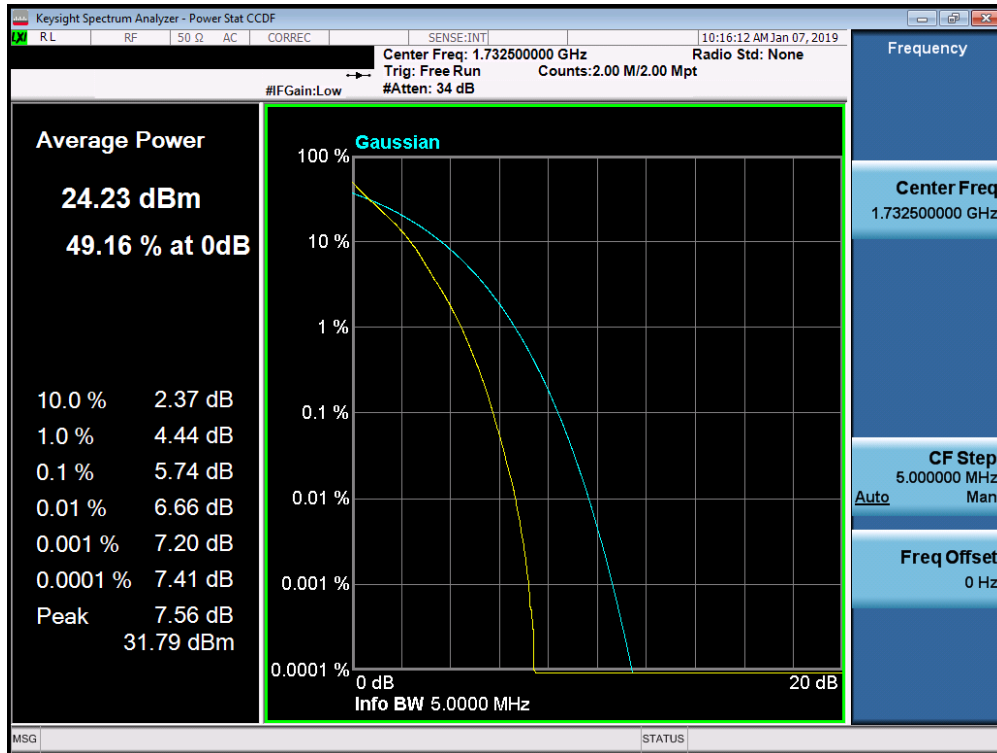


Plot 7-346. PAR Plot (Band 4 - 3.0MHz 16-QAM - Full RB Configuration)

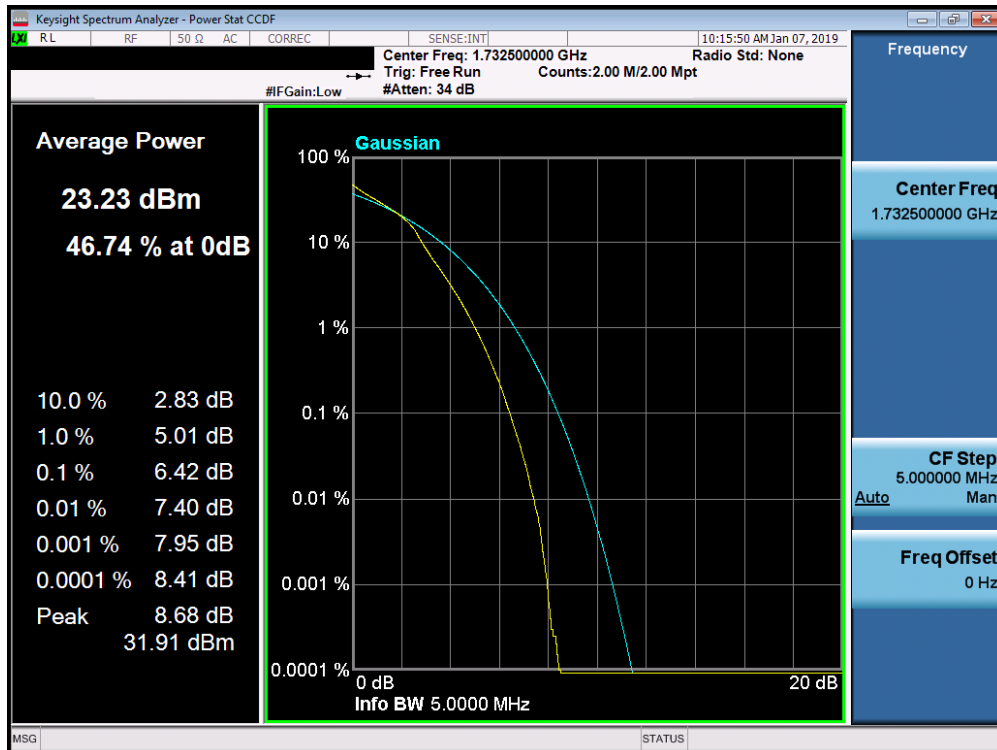


Plot 7-347. PAR Plot (Band 4 - 3.0MHz 64-QAM - Full RB Configuration)

|                                            |                                              |                            |                                 |
|--------------------------------------------|----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019         | EUT Type:<br>Tablet Device | Page 208 of 363                 |

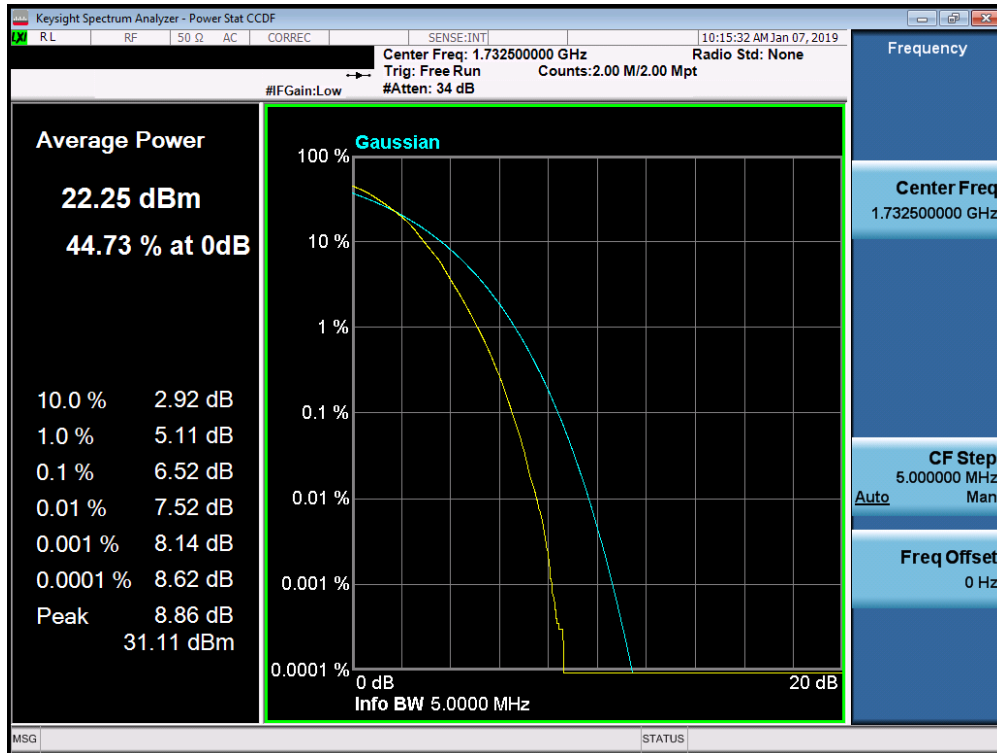


Plot 7-348. PAR Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

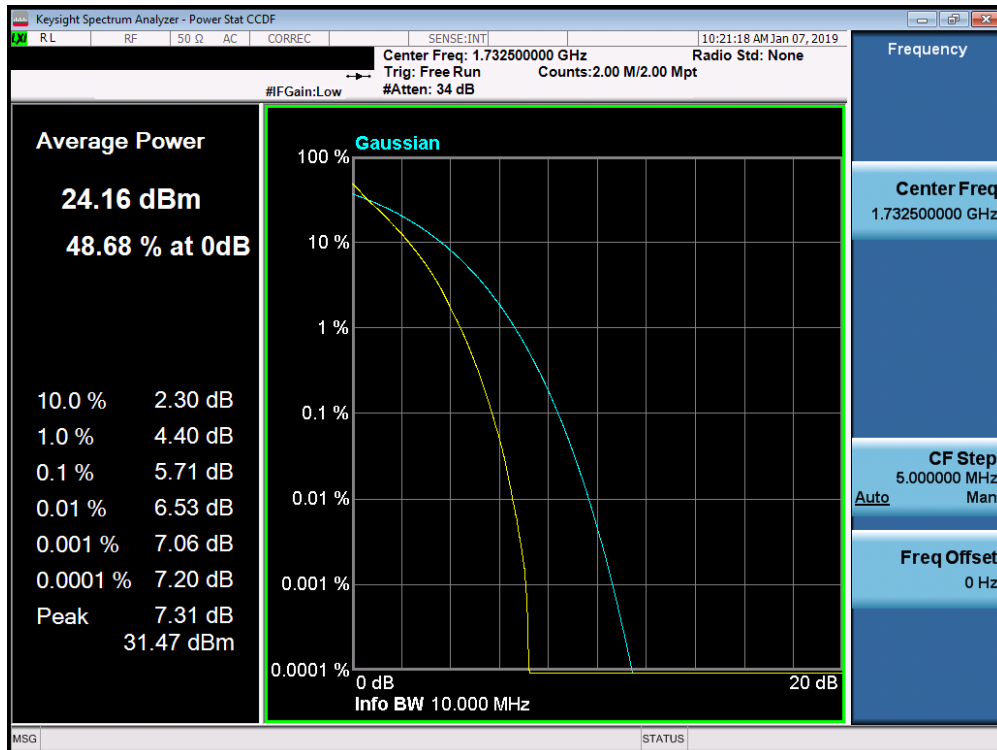


Plot 7-349. PAR Plot (Band 4 - 5.0MHz 16-QAM - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 209 of 363                 |

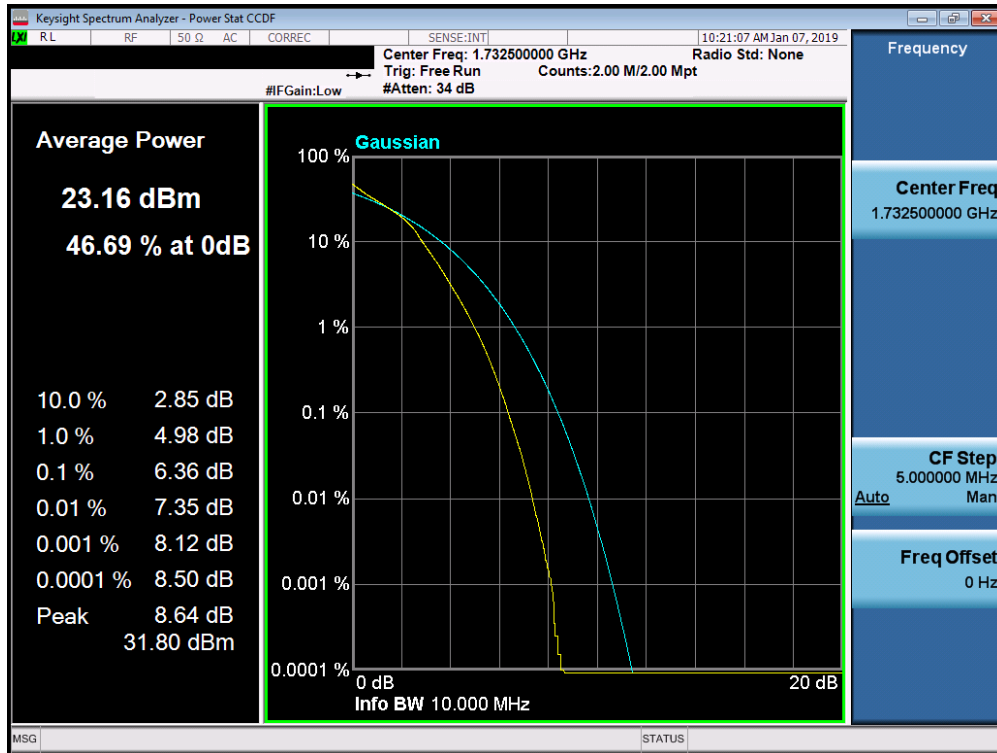


Plot 7-350. PAR Plot (Band 4 - 5.0MHz 64-QAM - Full RB Configuration)

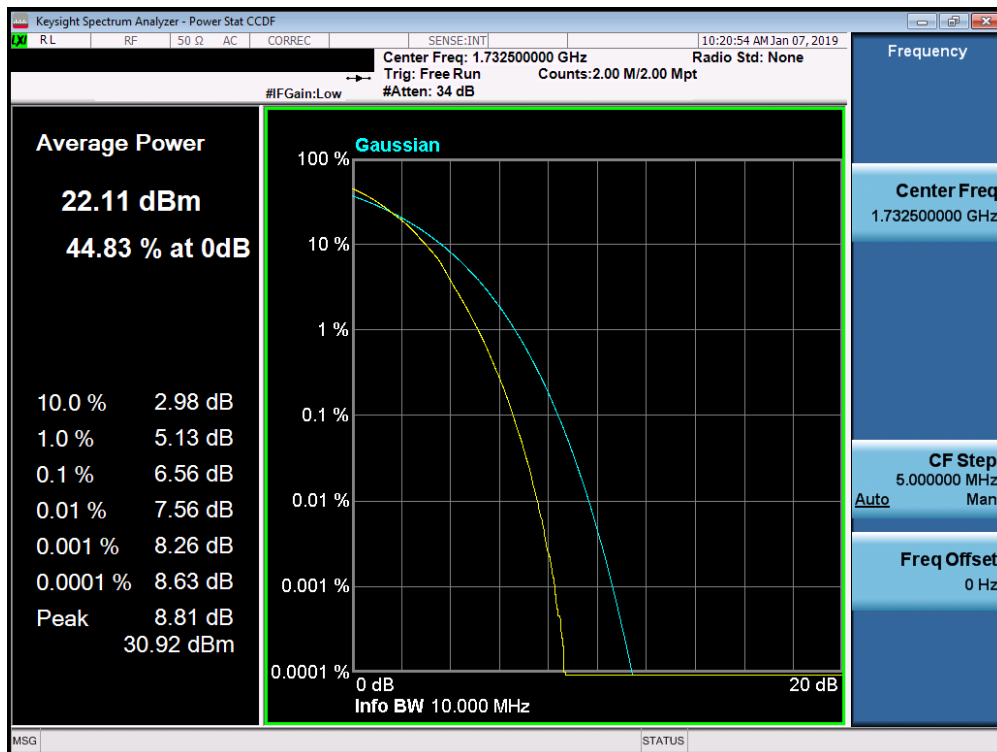


Plot 7-351. PAR Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

|                                            |                                              |                            |                                 |
|--------------------------------------------|----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019         | EUT Type:<br>Tablet Device | Page 210 of 363                 |

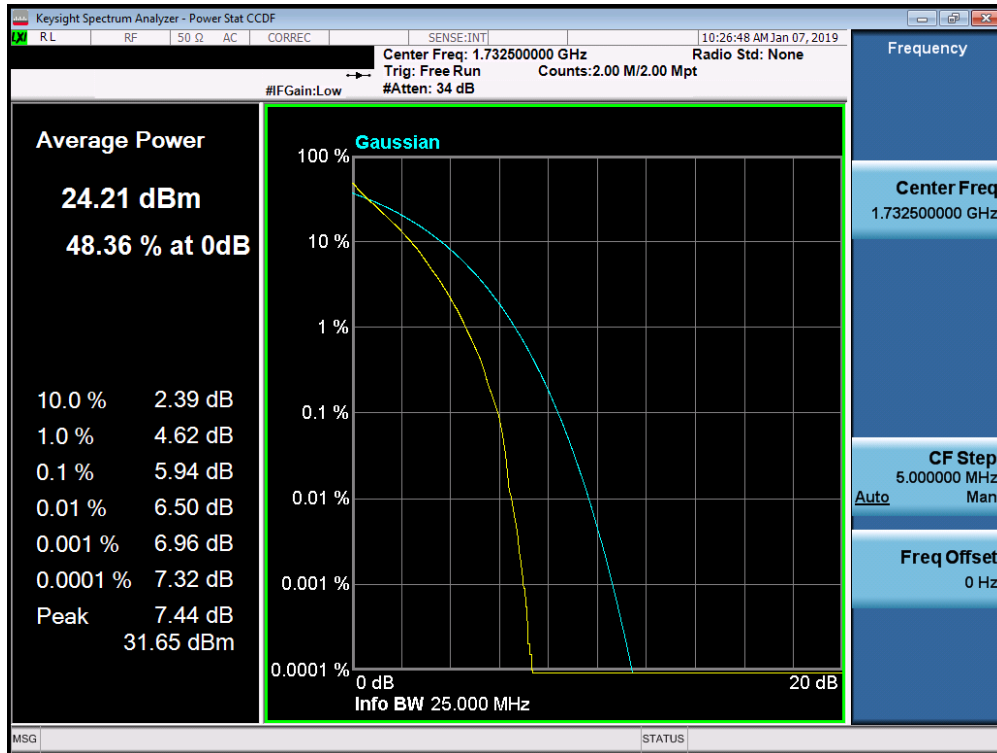


Plot 7-352. PAR Plot (Band 4 - 10.0MHz 16-QAM - Full RB Configuration)

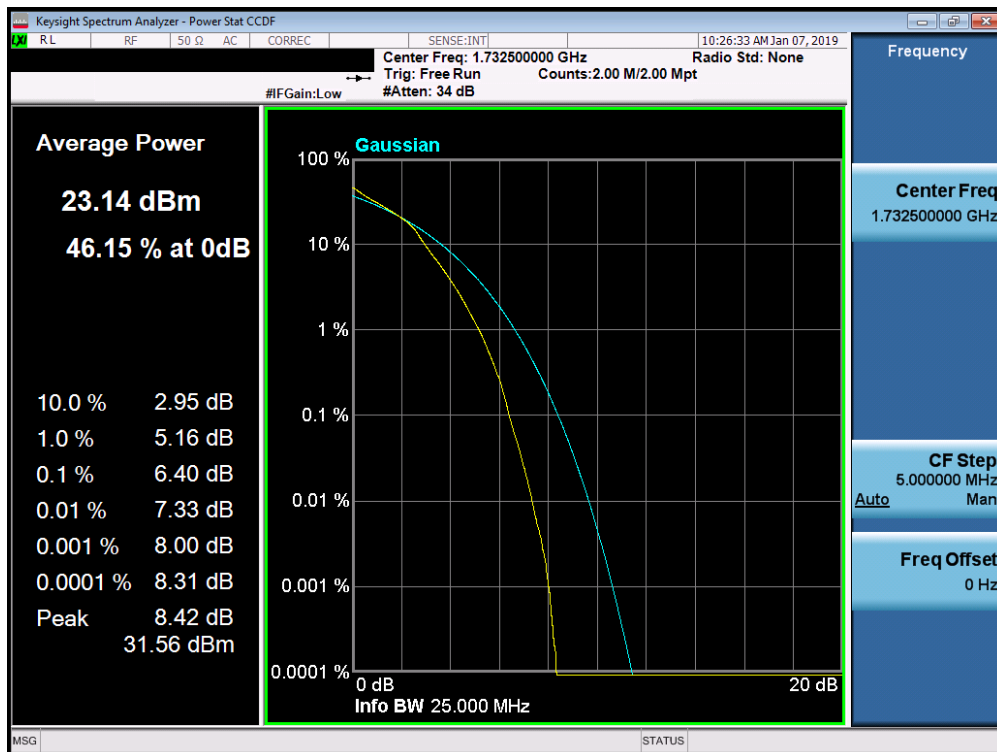


Plot 7-353. PAR Plot (Band 4 - 10.0MHz 64-QAM - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 211 of 363                 |

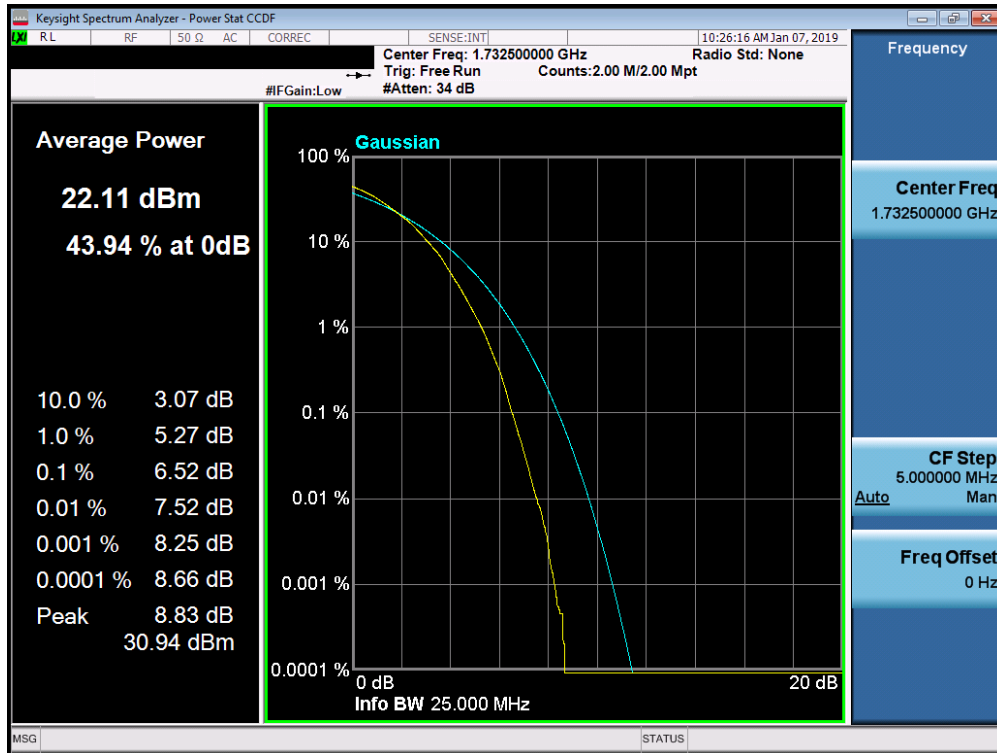


Plot 7-354. PAR Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

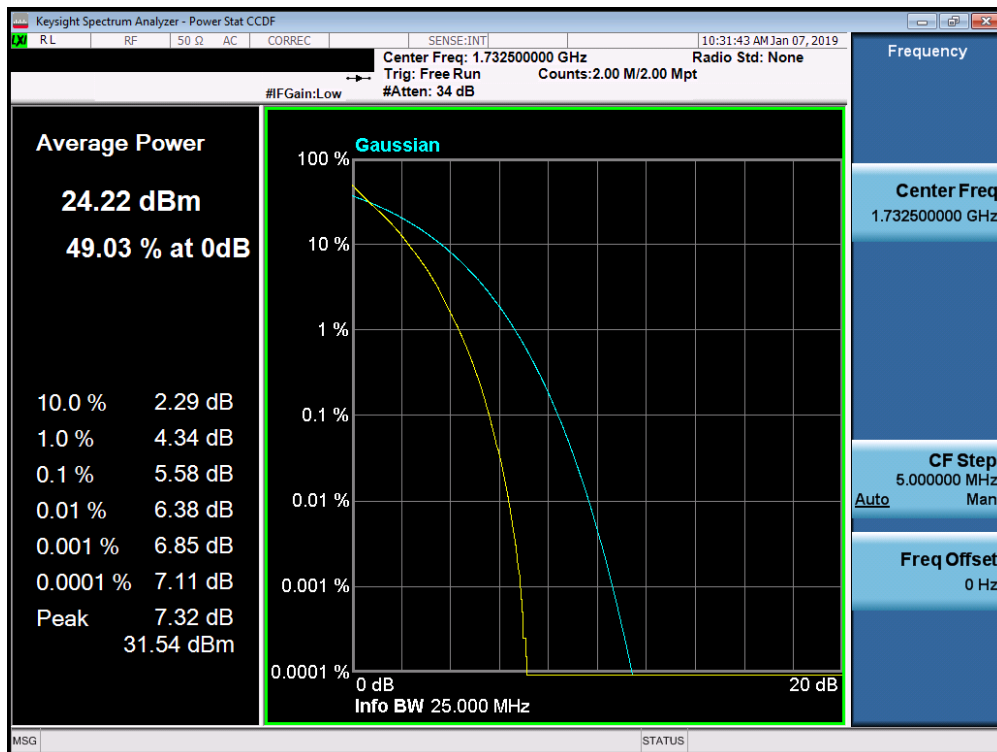


Plot 7-355. PAR Plot (Band 4 - 15.0MHz 16-QAM - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 212 of 363                 |



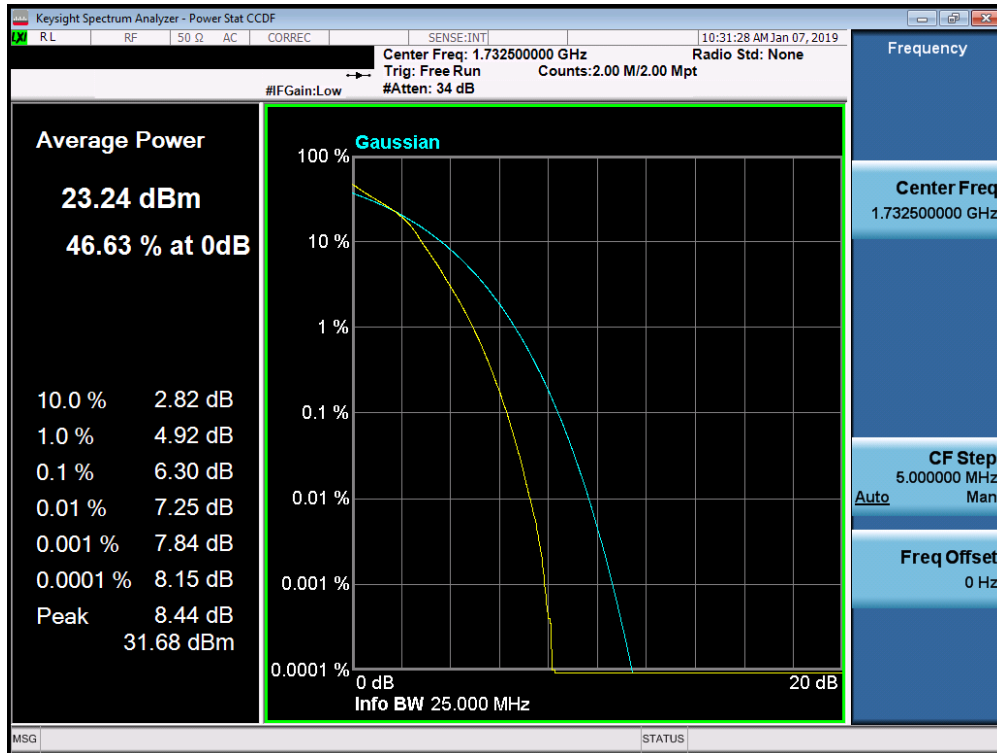
Plot 7-356. PAR Plot (Band 4 - 15.0MHz 64-QAM - Full RB Configuration)



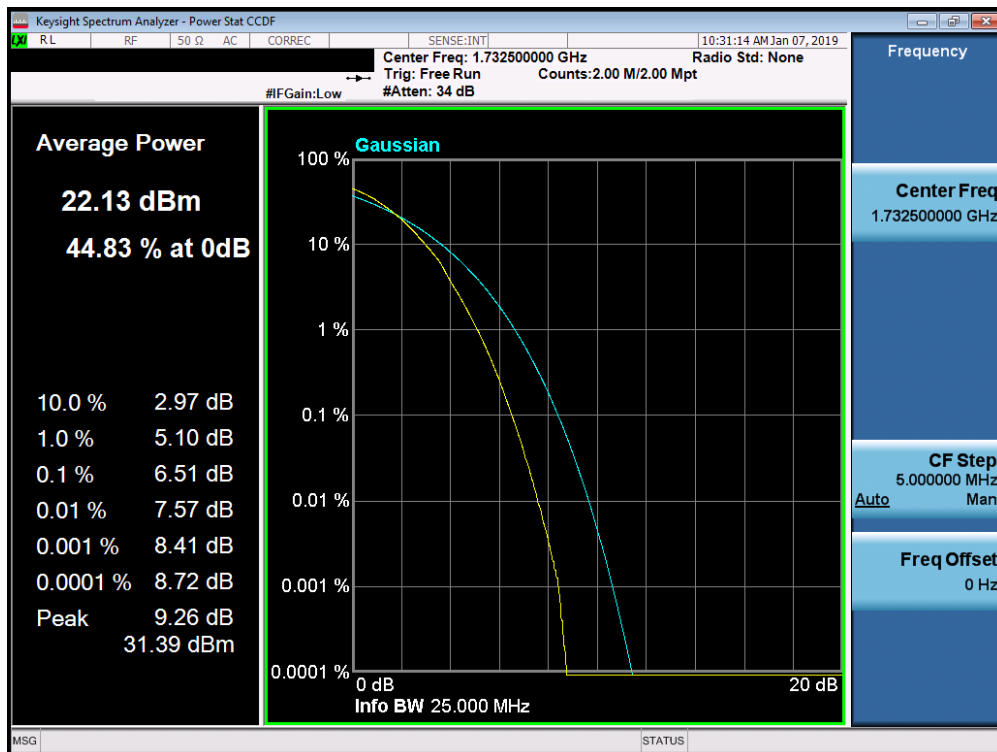
Plot 7-357. PAR Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 213 of 363                 |





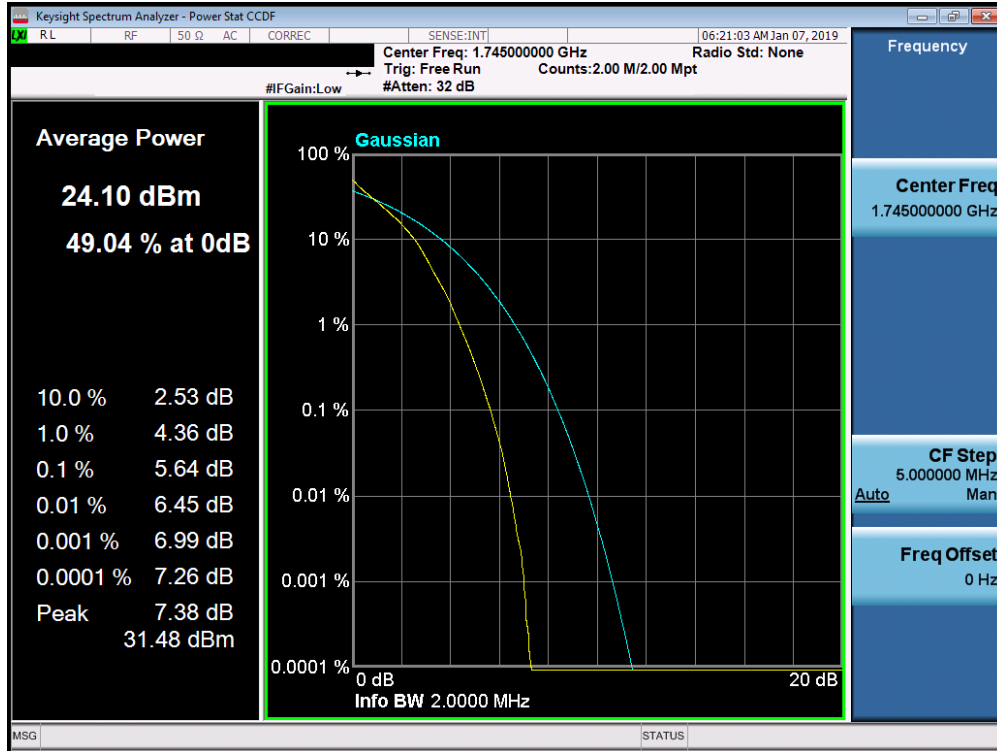
Plot 7-358. PAR Plot (Band 4 - 20.0MHz 16-QAM - Full RB Configuration)



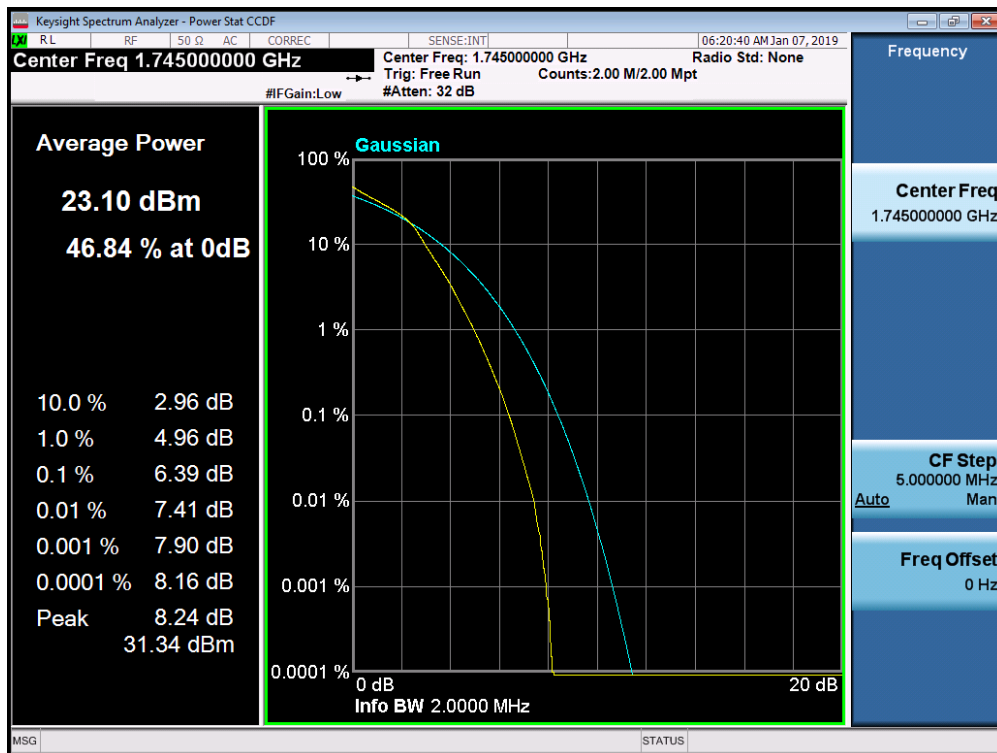
Plot 7-359. PAR Plot (Band 4 - 20.0MHz 64-QAM - Full RB Configuration)

|                                            |                                              |                            |                                 |
|--------------------------------------------|----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019         | EUT Type:<br>Tablet Device | Page 214 of 363                 |

## Band 66

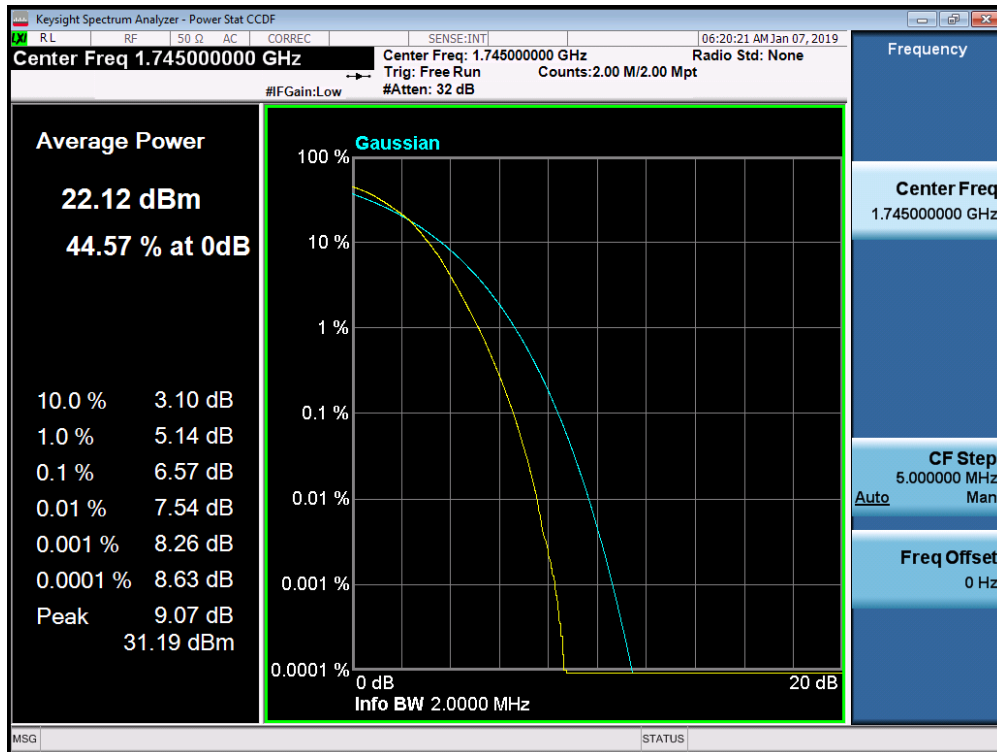


Plot 7-360. PAR Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)

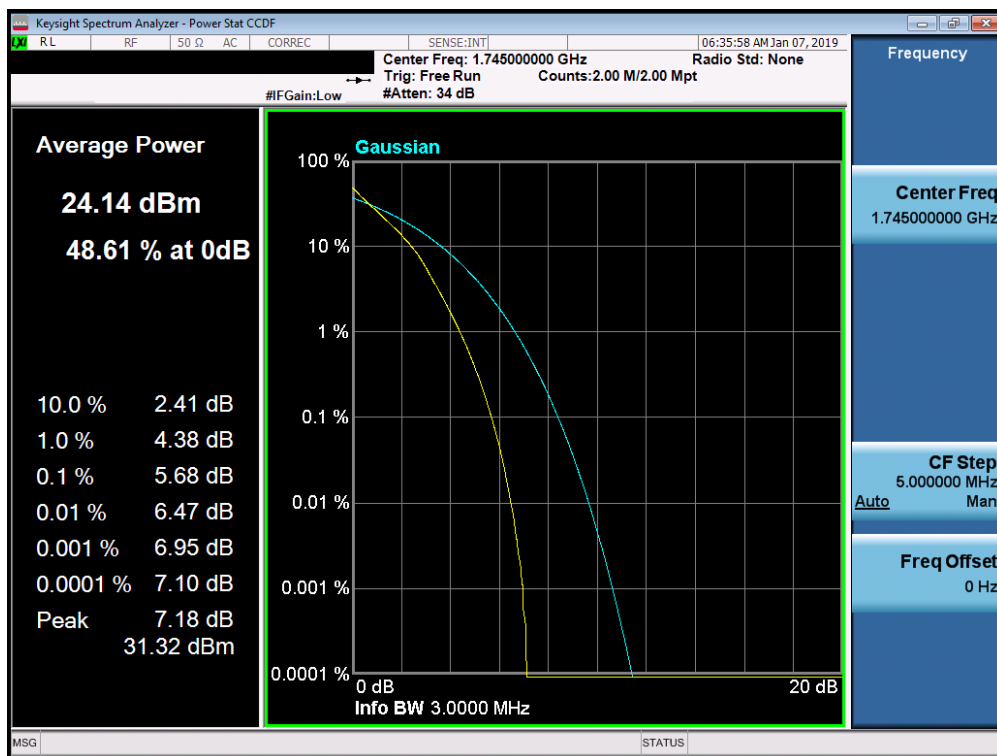


Plot 7-361. PAR Plot (Band 66 - 1.4MHz 16-QAM - Full RB Configuration)

|                                            |                                               |                            |                                       |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. |                            | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device |                                       | Page 215 of 363                 |

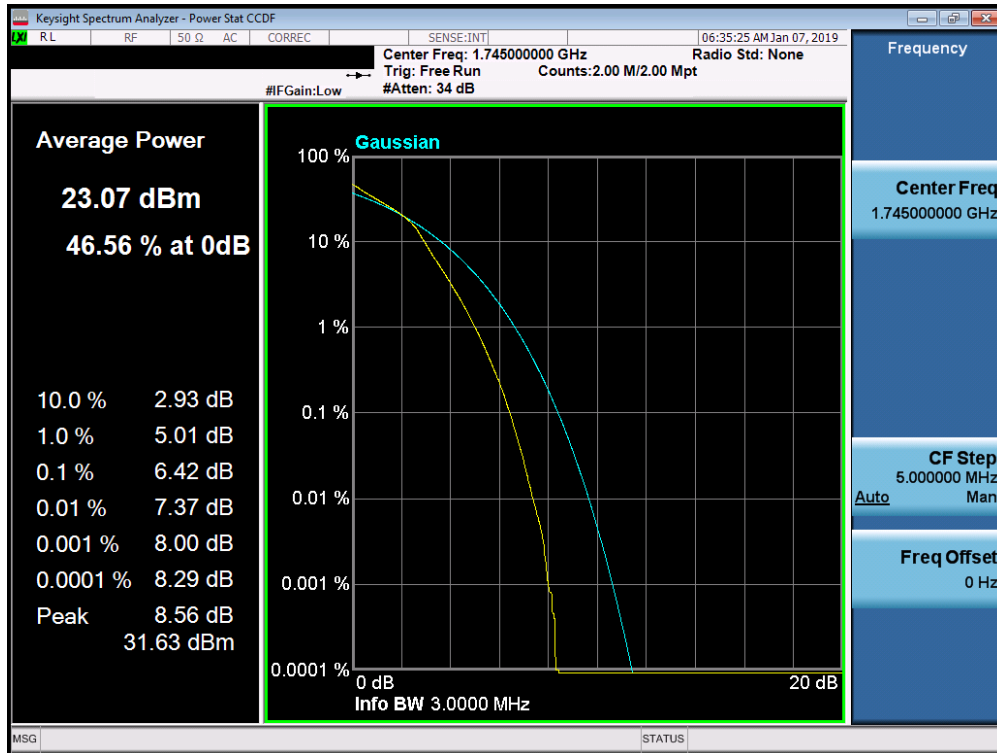


Plot 7-362. PAR Plot (Band 66 - 1.4MHz 64-QAM - Full RB Configuration)

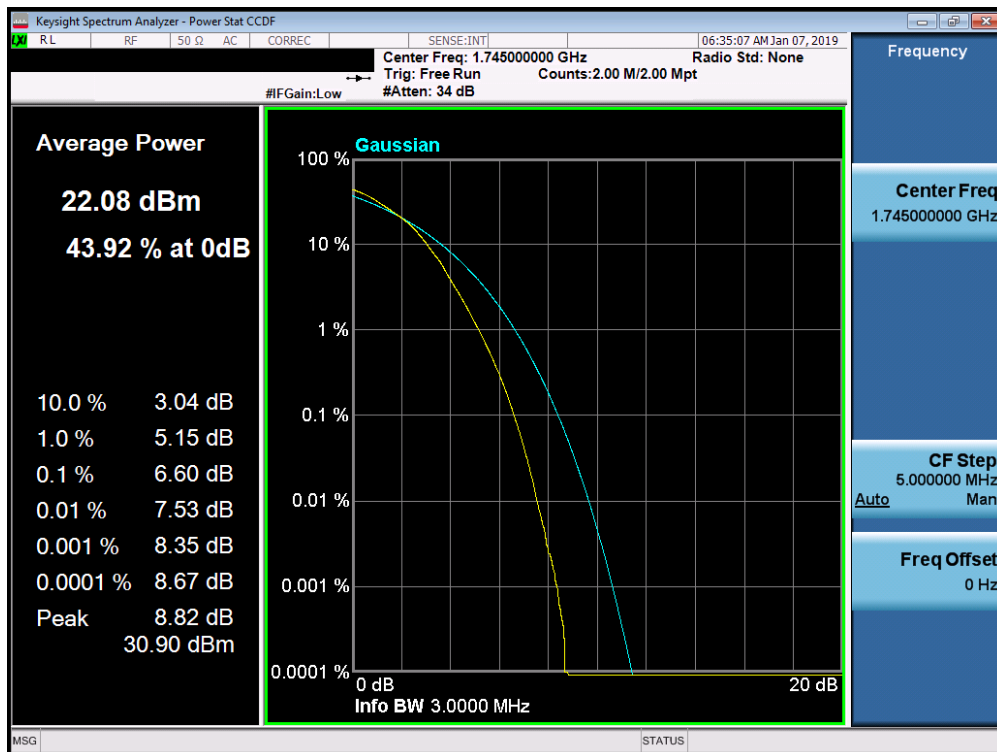


Plot 7-363. PAR Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 216 of 363                 |

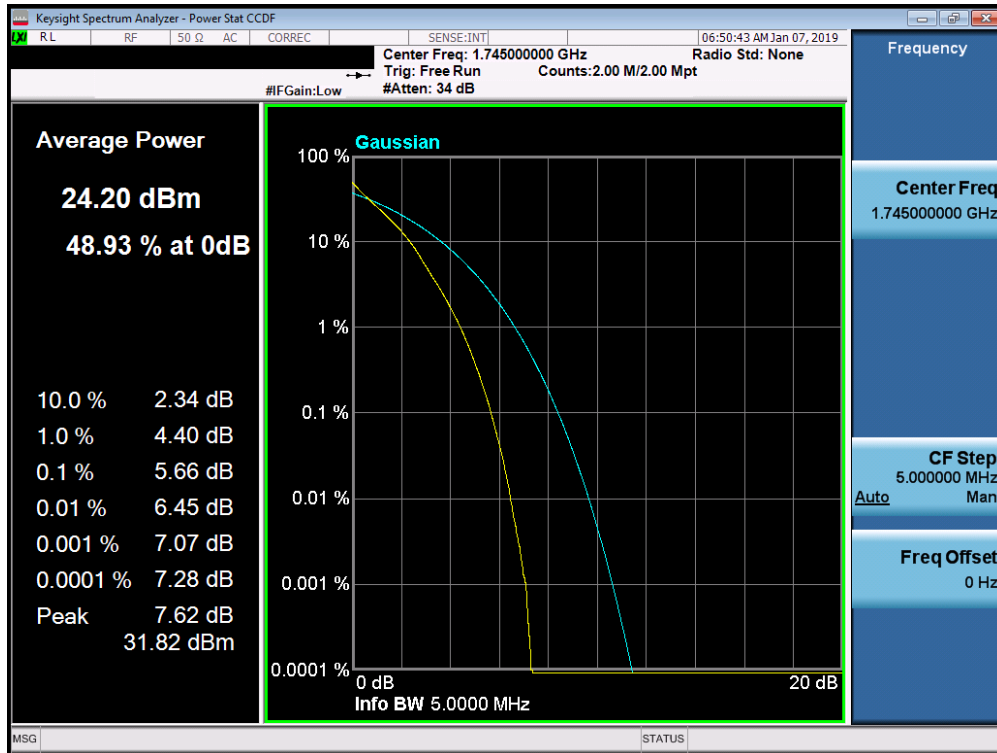


Plot 7-364. PAR Plot (Band 66 - 3.0MHz 16-QAM - Full RB Configuration)

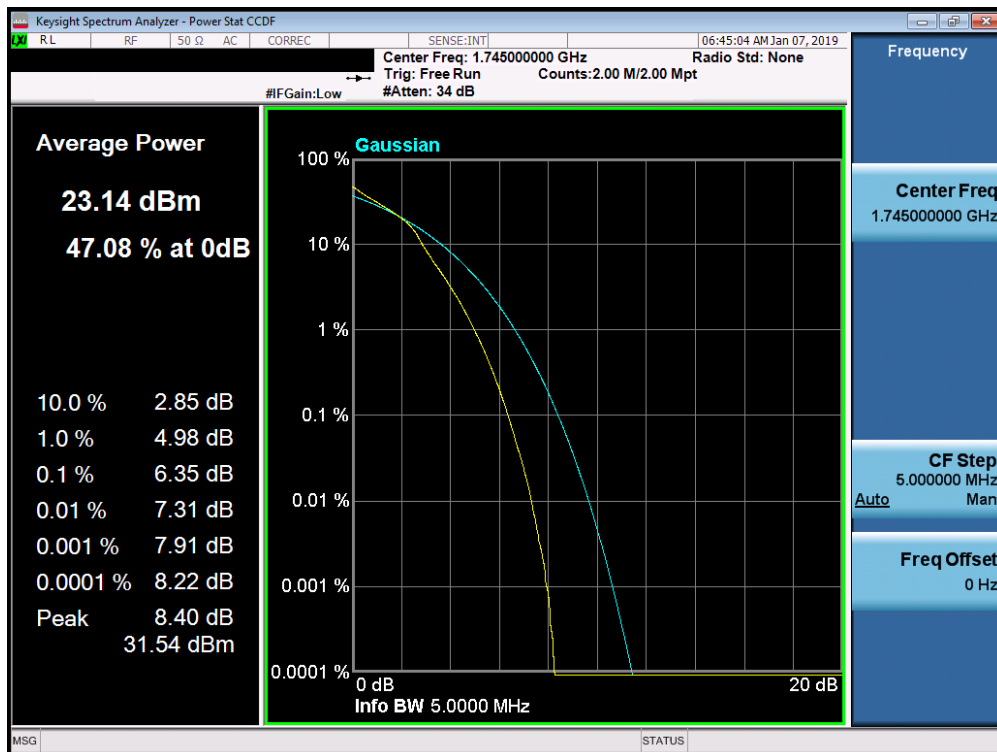


Plot 7-365. PAR Plot (Band 66 - 3.0MHz 64-QAM - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 217 of 363                 |

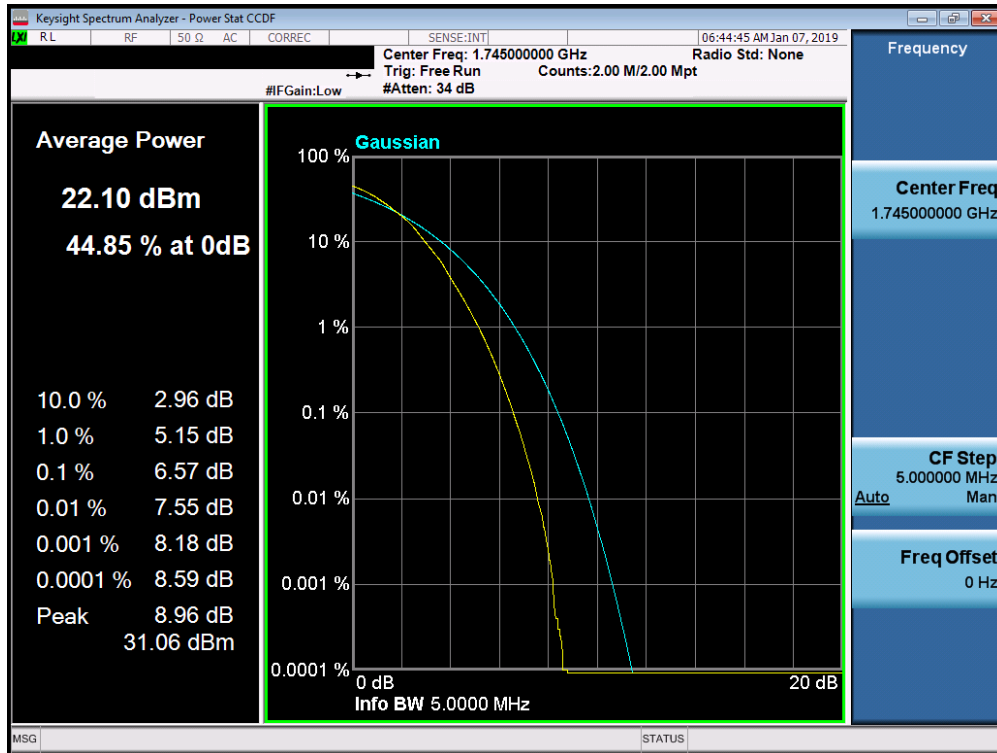


Plot 7-366. PAR Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

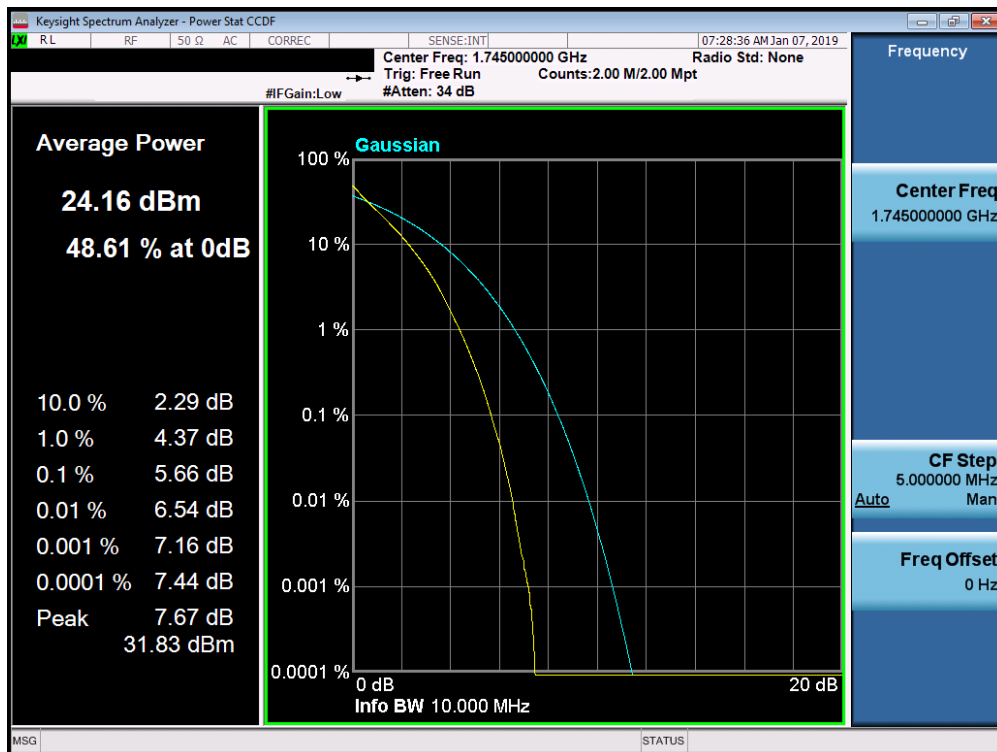


Plot 7-367. PAR Plot (Band 66 - 5.0MHz 16-QAM - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 218 of 363                 |

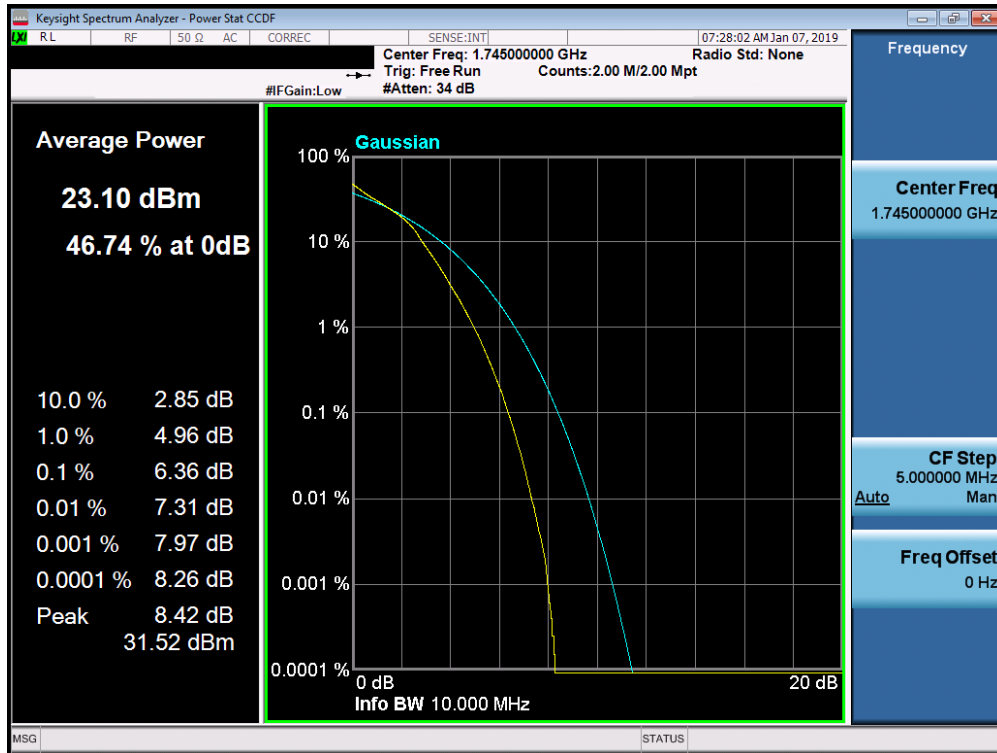


Plot 7-368. PAR Plot (Band 66 - 5.0MHz 64-QAM - Full RB Configuration)

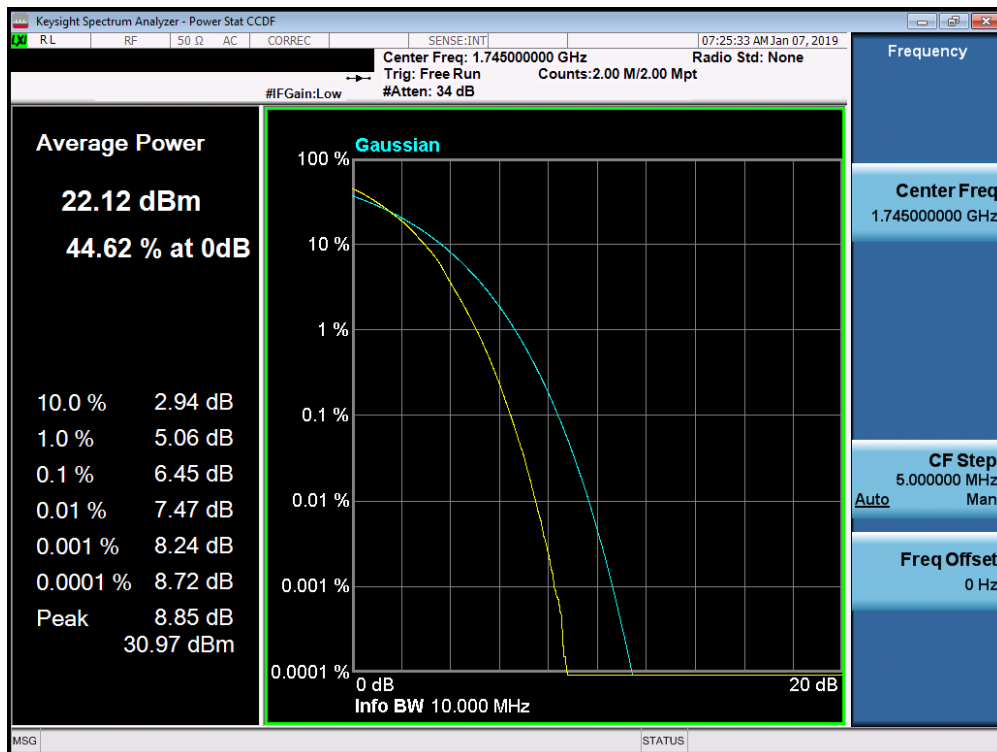


Plot 7-369. PAR Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 219 of 363                 |



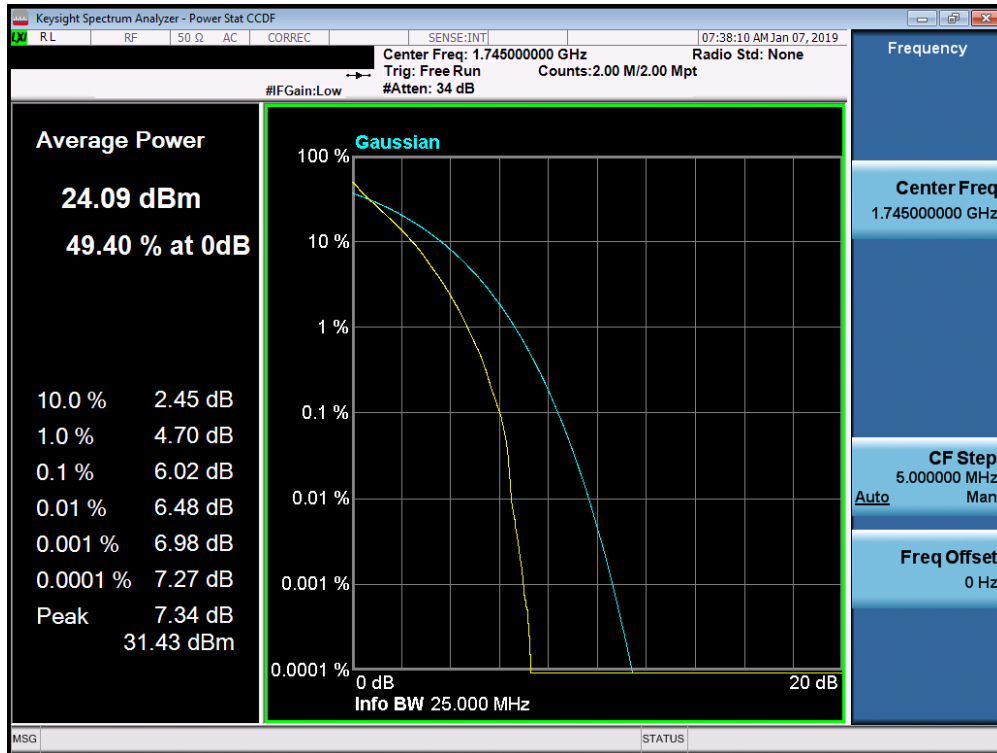
Plot 7-370. PAR Plot (Band 66 - 10.0MHz 16-QAM - Full RB Configuration)



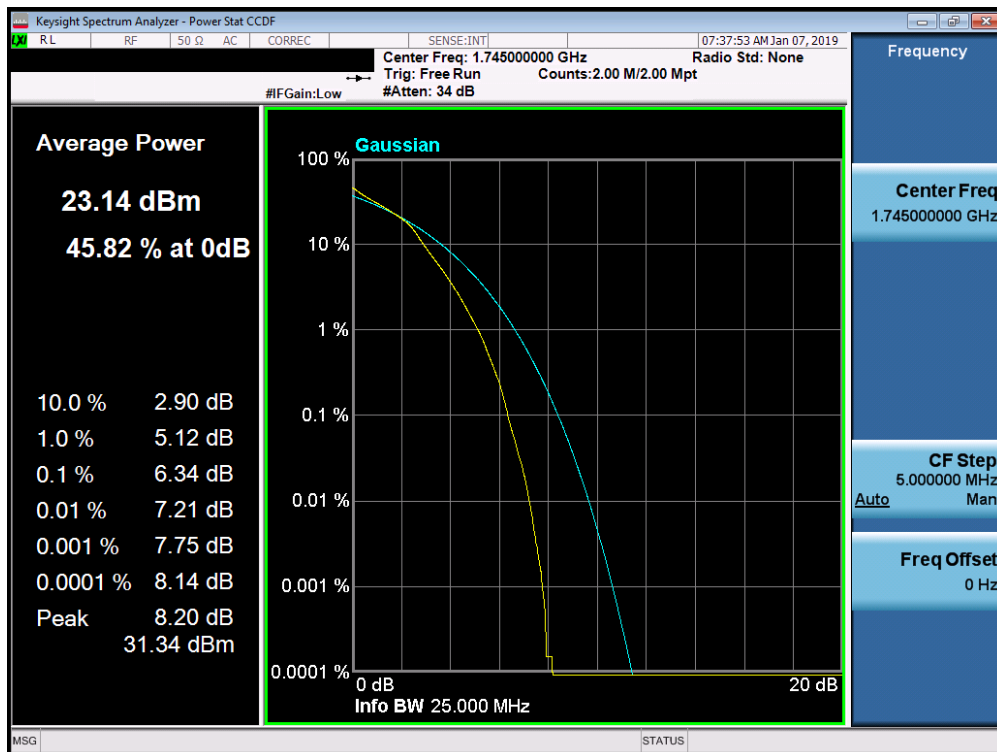
Plot 7-371. PAR Plot (Band 66 - 10.0MHz 64-QAM - Full RB Configuration)

|                                            |                                              |                            |                                 |
|--------------------------------------------|----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019         | EUT Type:<br>Tablet Device | Page 220 of 363                 |



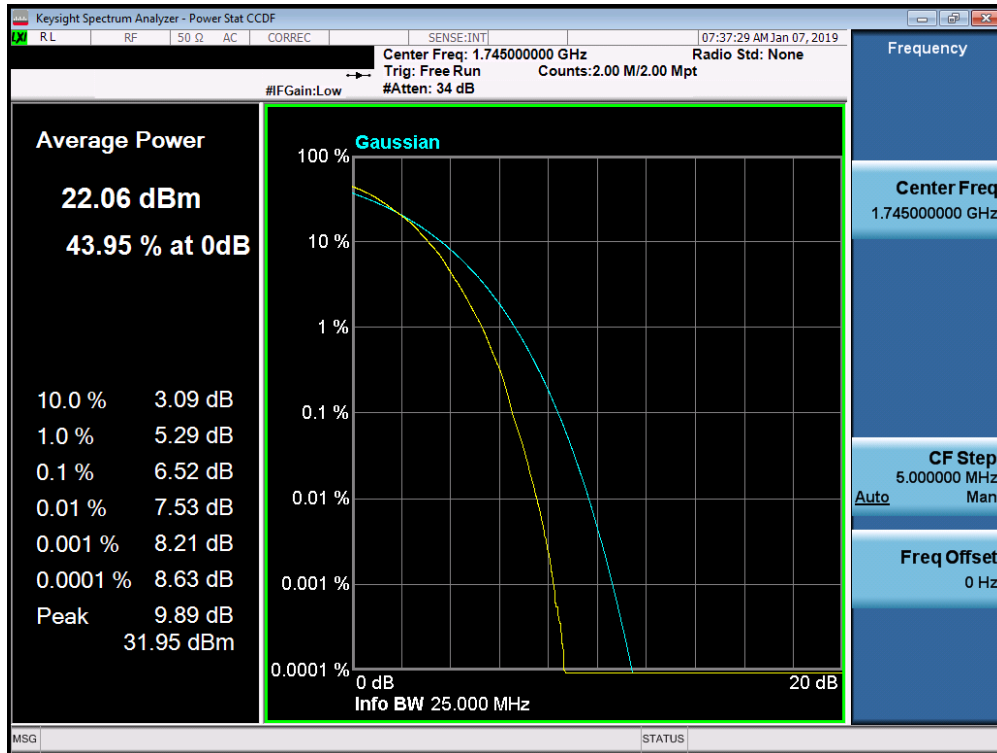


Plot 7-372. PAR Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

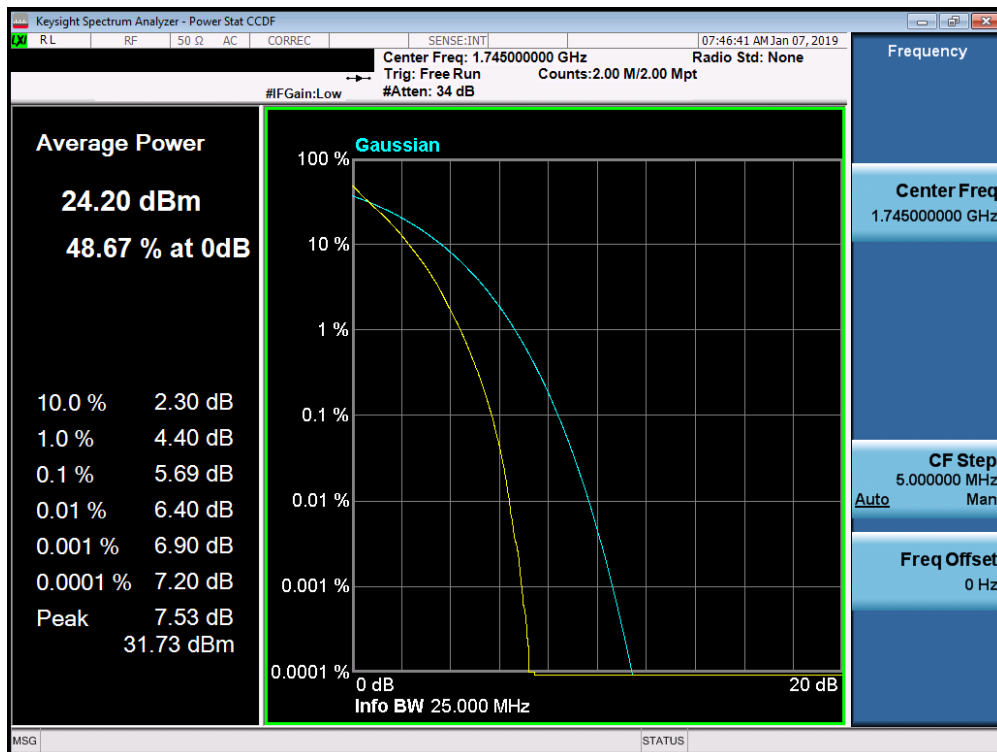


Plot 7-373. PAR Plot (Band 66 - 15.0MHz 16-QAM - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 221 of 363                 |

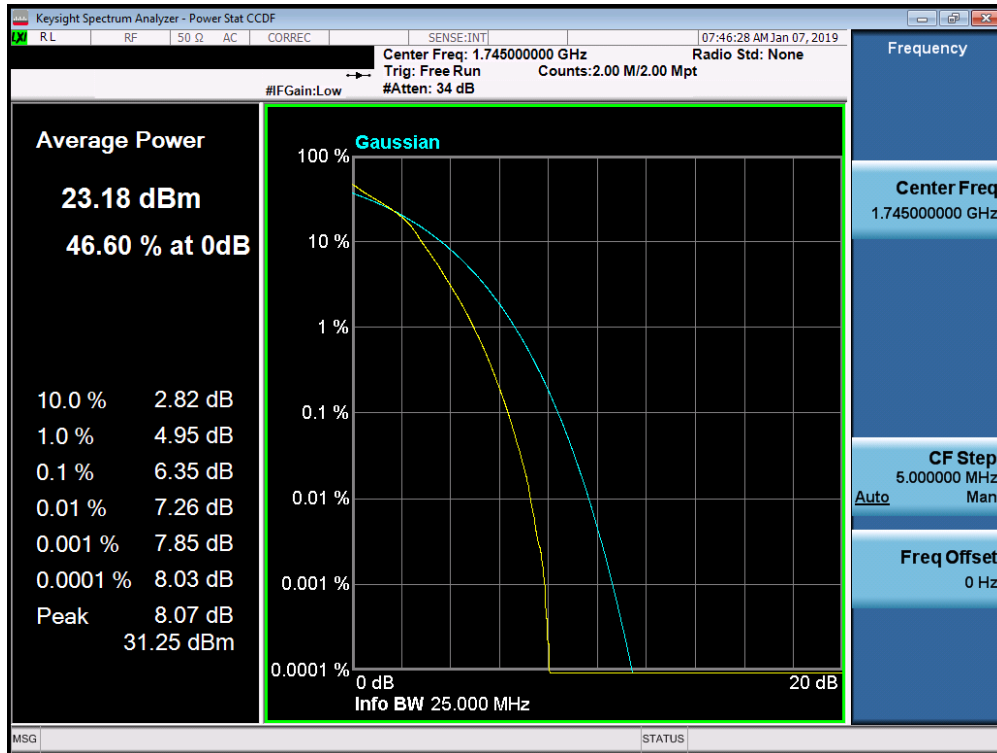


Plot 7-374. PAR Plot (Band 66 - 15.0MHz 64-QAM - Full RB Configuration)

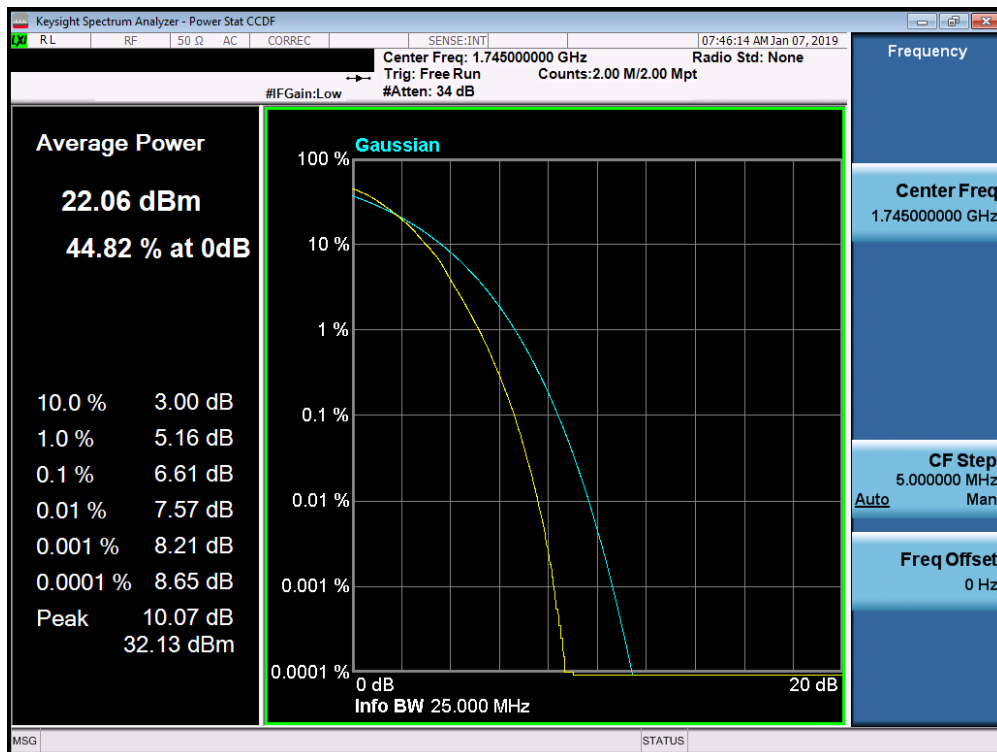


Plot 7-375. PAR Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 222 of 363                 |



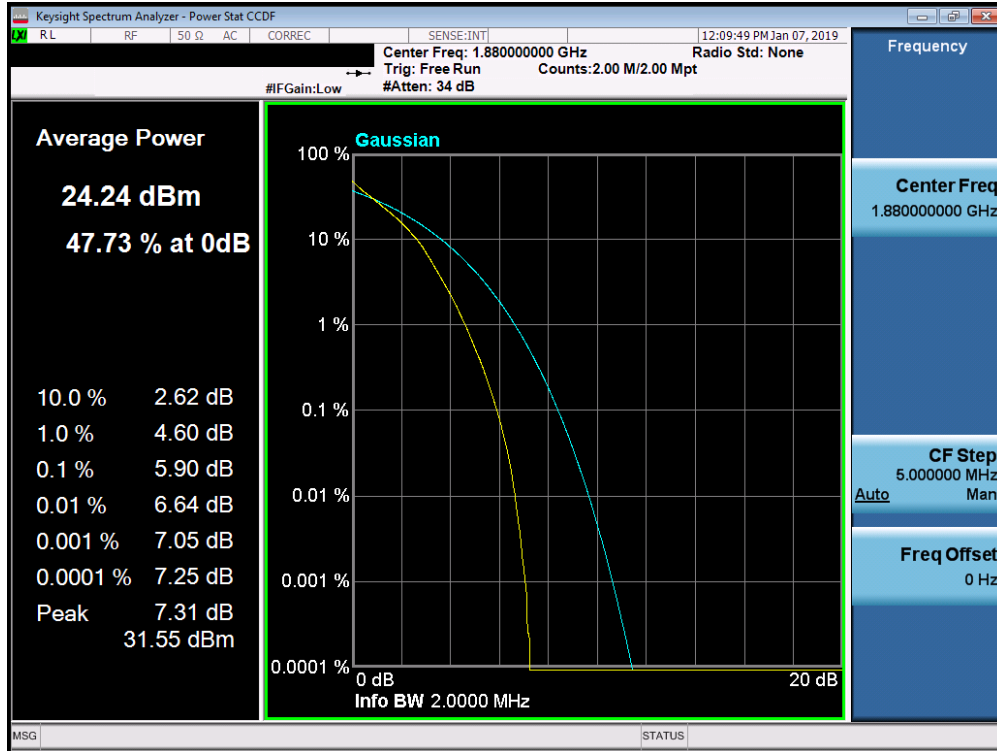
Plot 7-376. PAR Plot (Band 66 - 20.0MHz 16-QAM - Full RB Configuration)



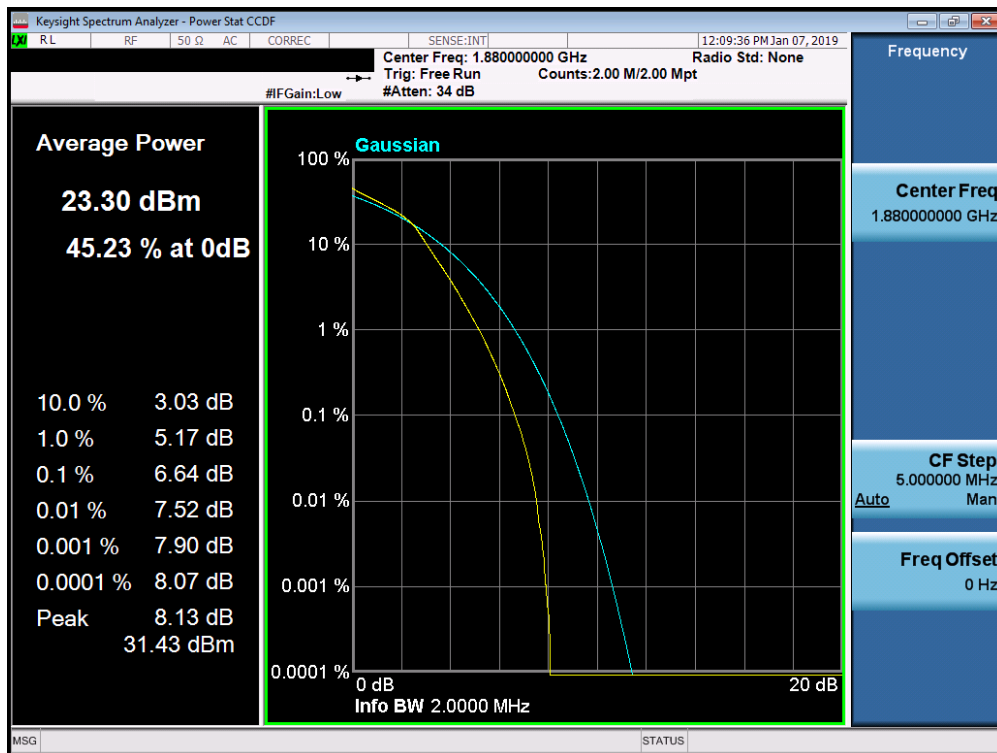
Plot 7-377. PAR Plot (Band 66 - 20.0MHz 64-QAM - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 223 of 363                 |

## Band 2

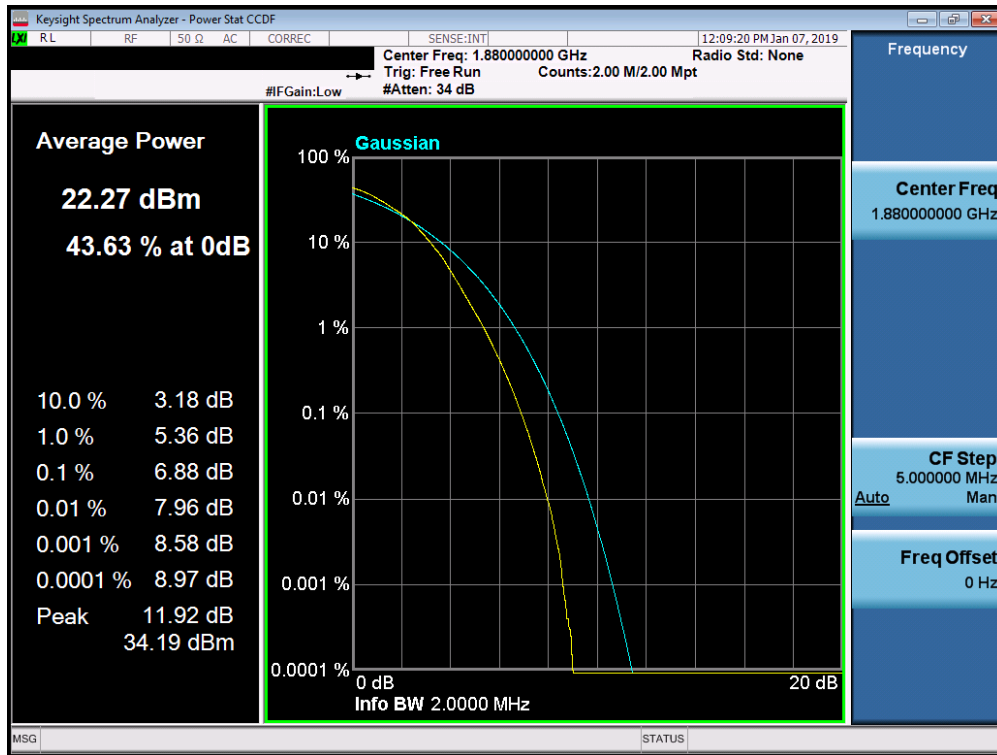


Plot 7-378. PAR Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

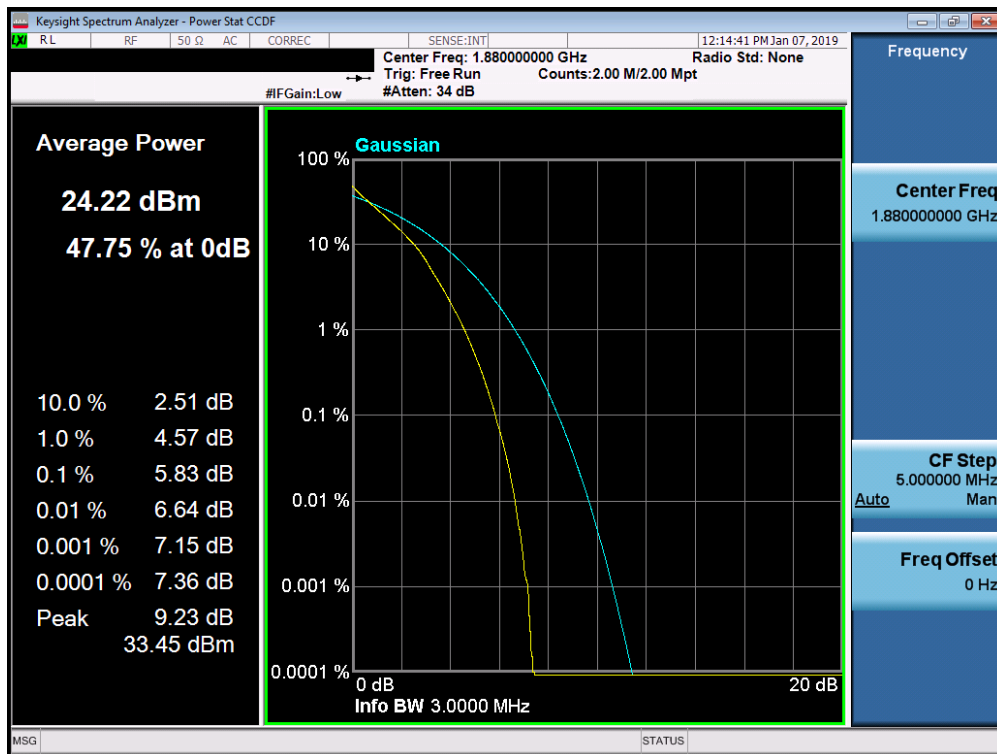


Plot 7-379. PAR Plot (Band 2 - 1.4MHz 16-QAM - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 224 of 363                 |

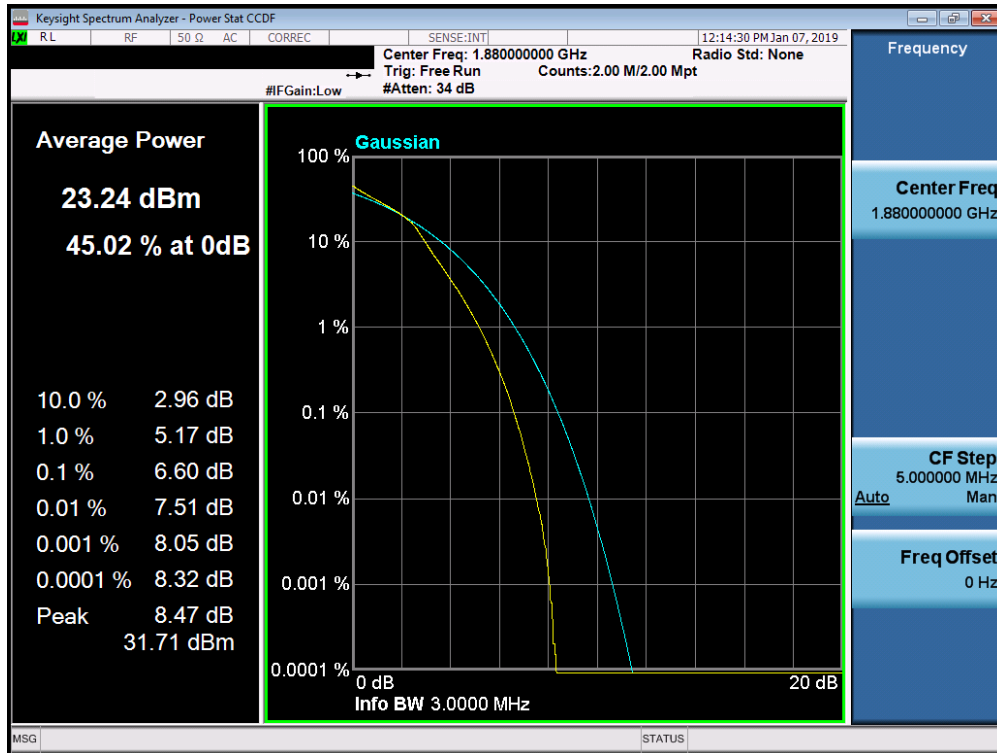


Plot 7-380. PAR Plot (Band 2 - 1.4MHz 64-QAM - Full RB Configuration)

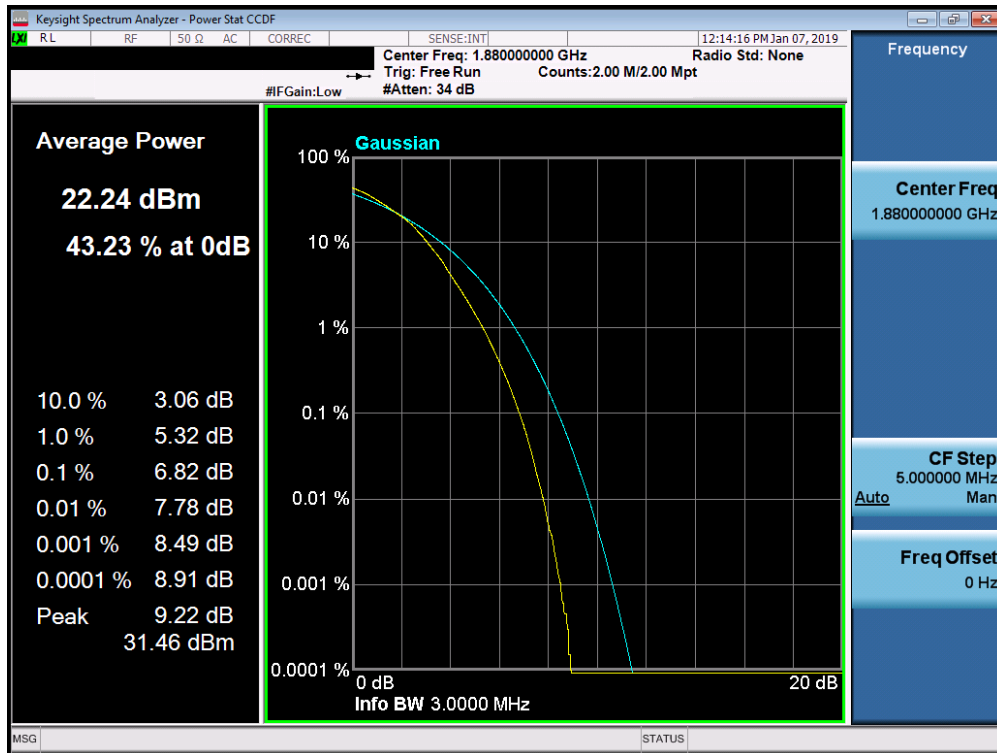


Plot 7-381. PAR Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 225 of 363                 |

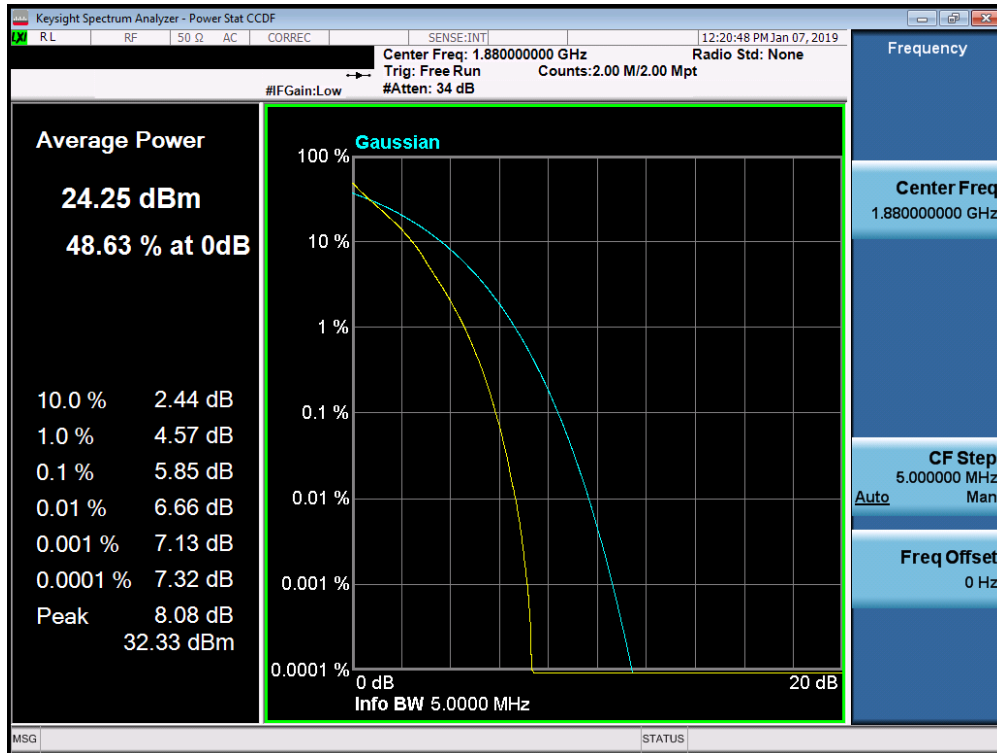


Plot 7-382. PAR Plot (Band 2 - 3.0MHz 16-QAM - Full RB Configuration)

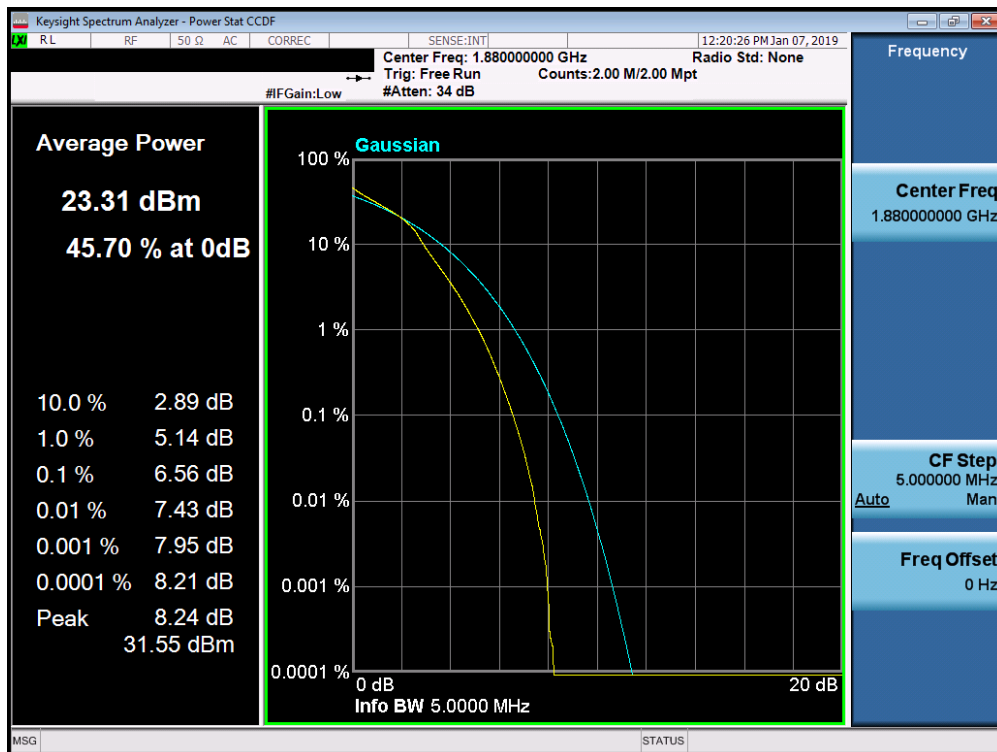


Plot 7-383. PAR Plot (Band 2 - 3.0MHz 64-QAM - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 226 of 363                 |



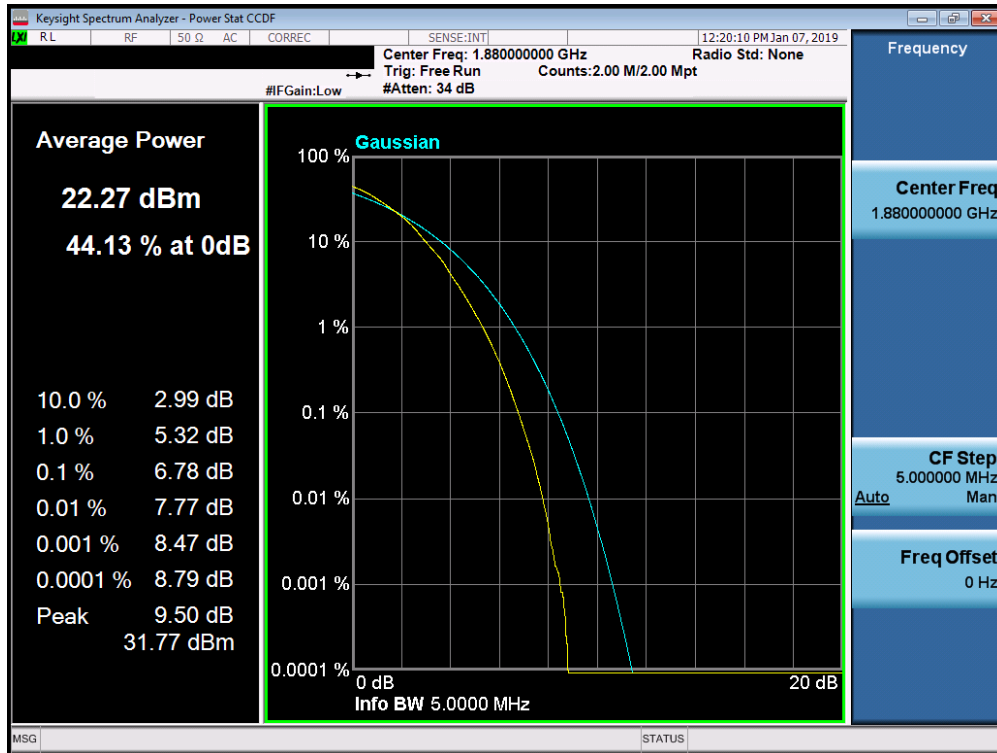
Plot 7-384. PAR Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)



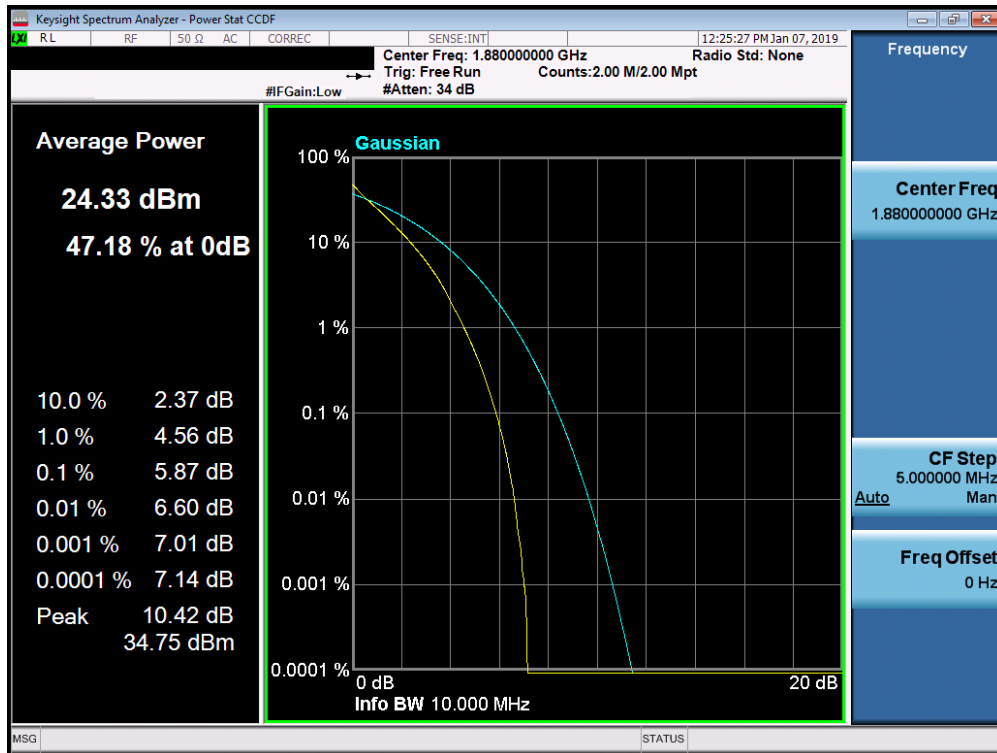
Plot 7-385. PAR Plot (Band 2 - 5.0MHz 16-QAM - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 227 of 363                 |



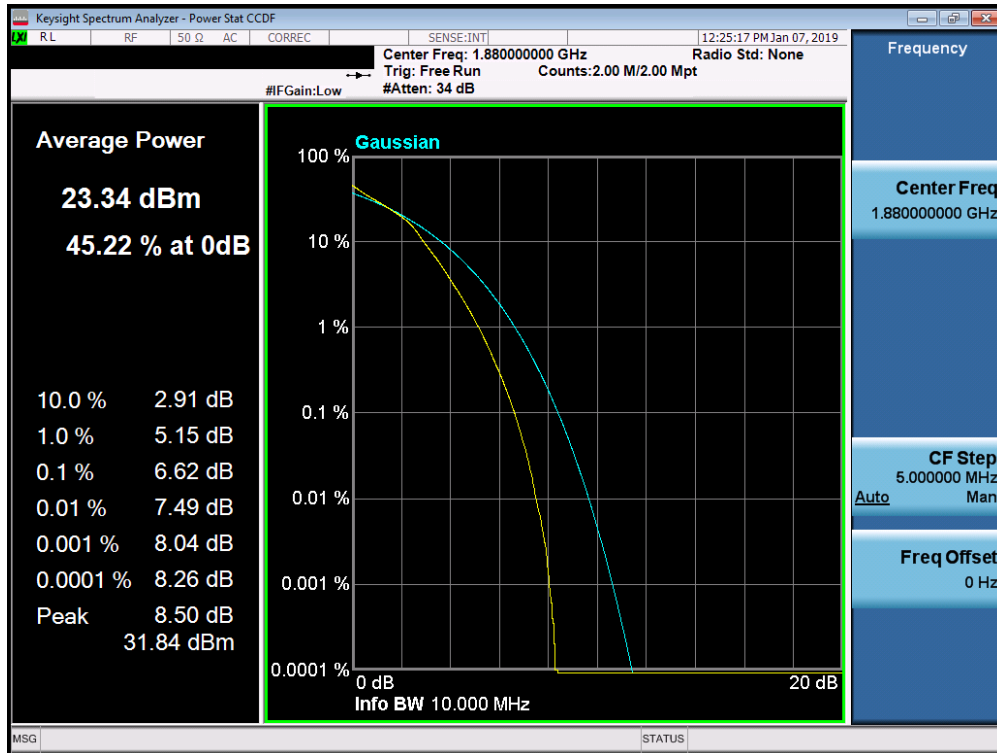


Plot 7-386. PAR Plot (Band 2 - 5.0MHz 64-QAM - Full RB Configuration)

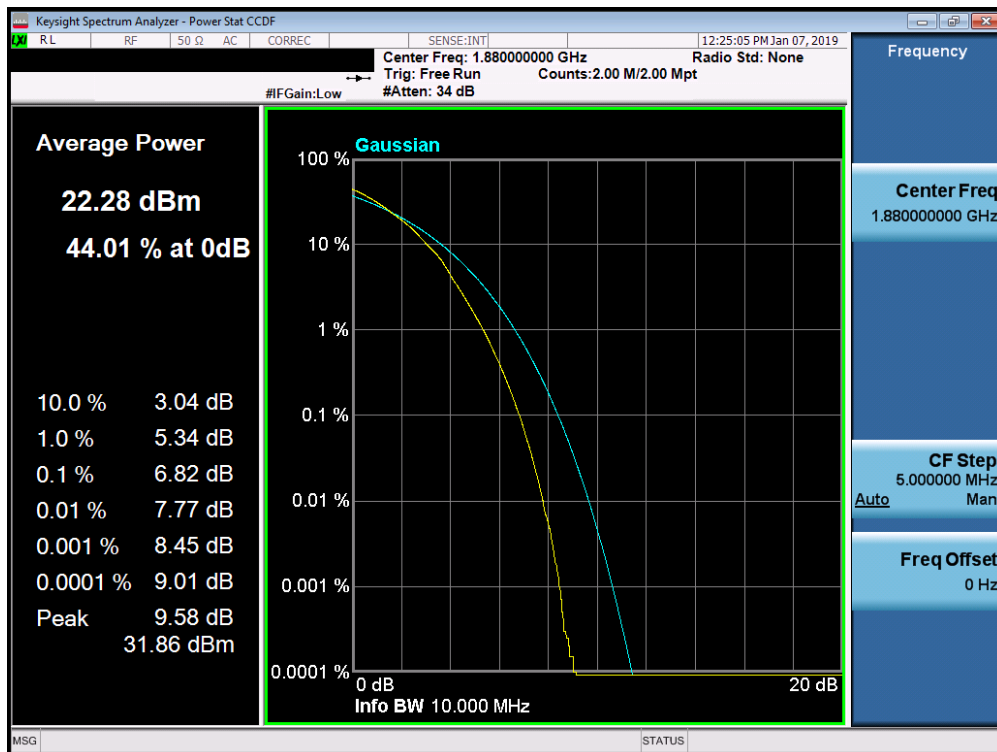


Plot 7-387. PAR Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

|                                            |                                              |                            |                                 |
|--------------------------------------------|----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019         | EUT Type:<br>Tablet Device | Page 228 of 363                 |

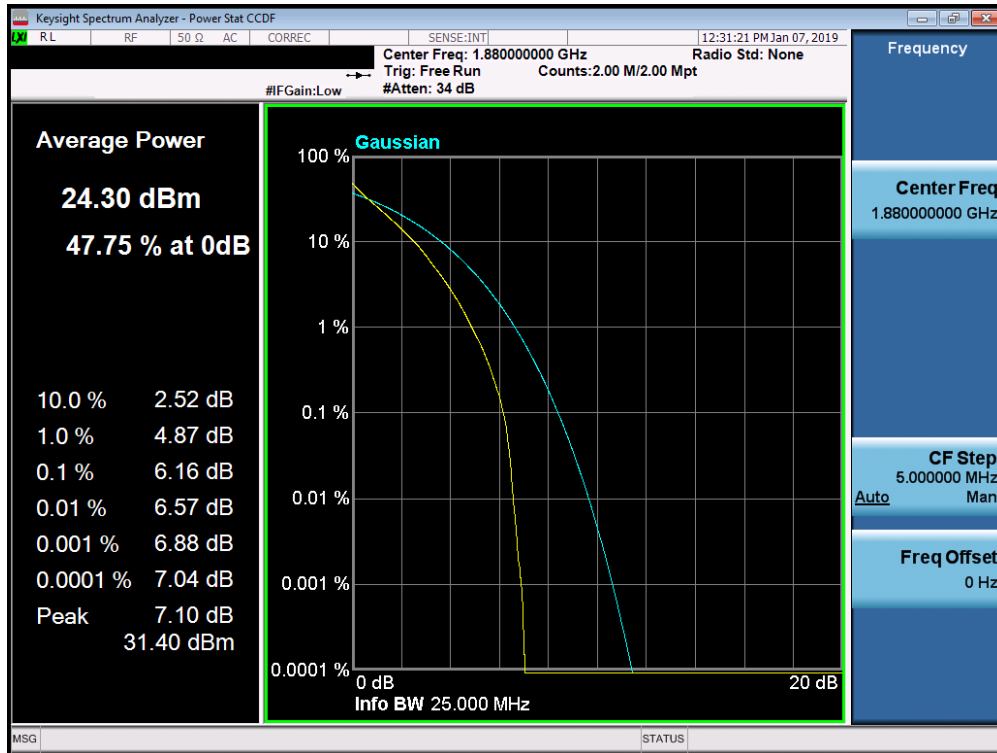


Plot 7-388. PAR Plot (Band 2 - 10.0MHz 16-QAM - Full RB Configuration)

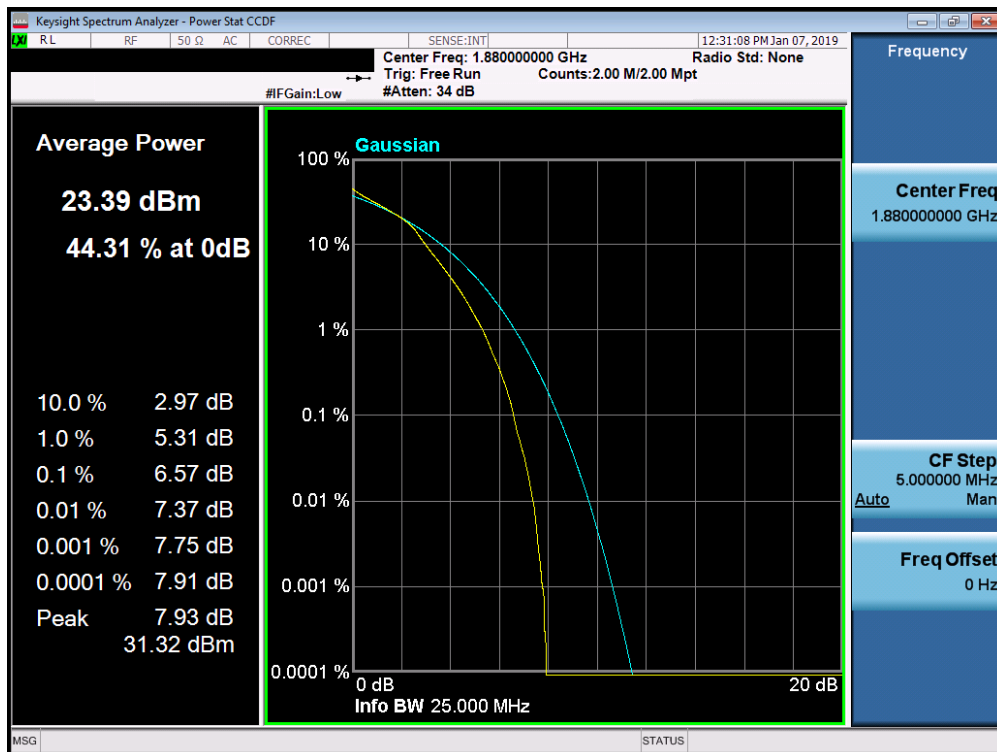


Plot 7-389. PAR Plot (Band 2 - 10.0MHz 64-QAM - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 229 of 363                 |

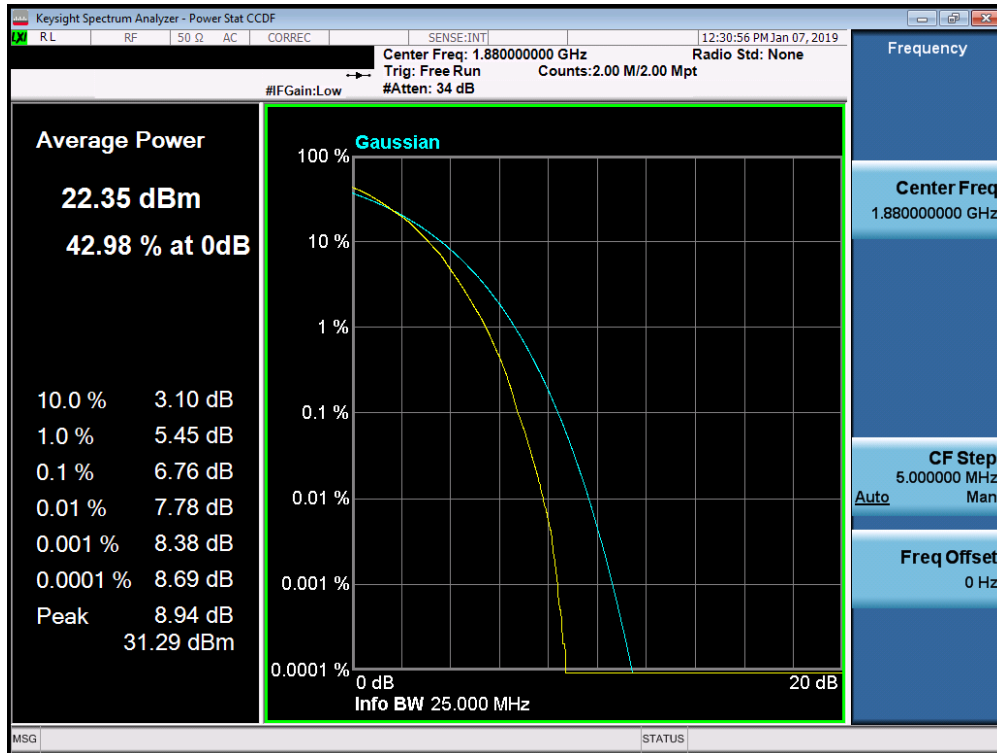


Plot 7-390. PAR Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

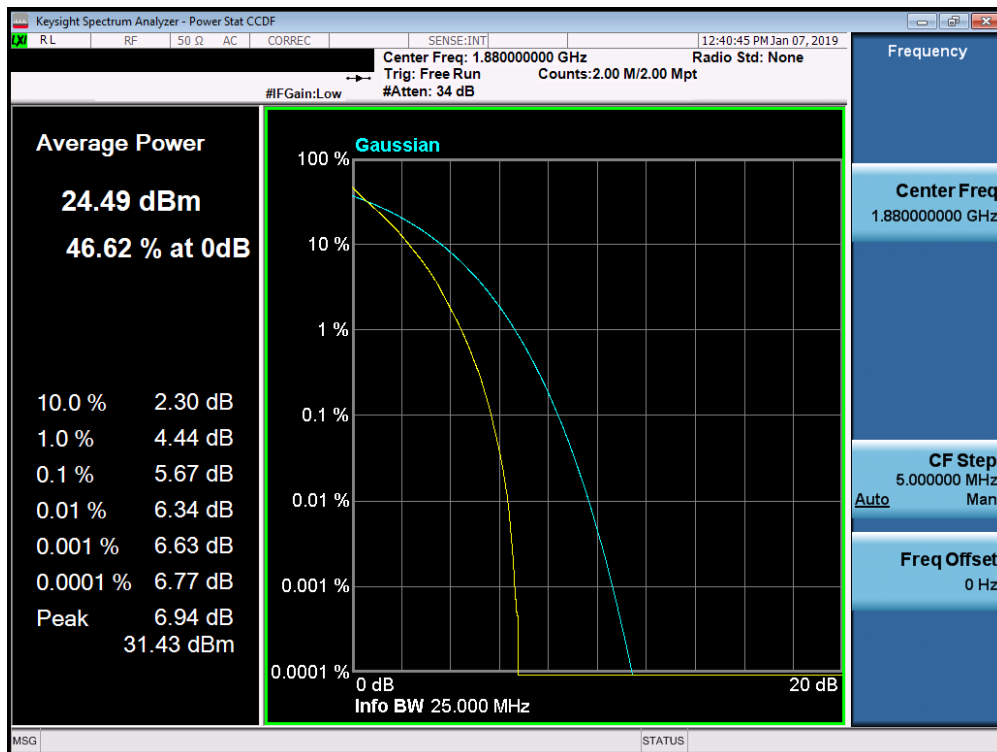


Plot 7-391. PAR Plot (Band 2 - 15.0MHz 16-QAM - Full RB Configuration)

|                                            |                                              |                            |                                 |
|--------------------------------------------|----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019         | EUT Type:<br>Tablet Device | Page 230 of 363                 |

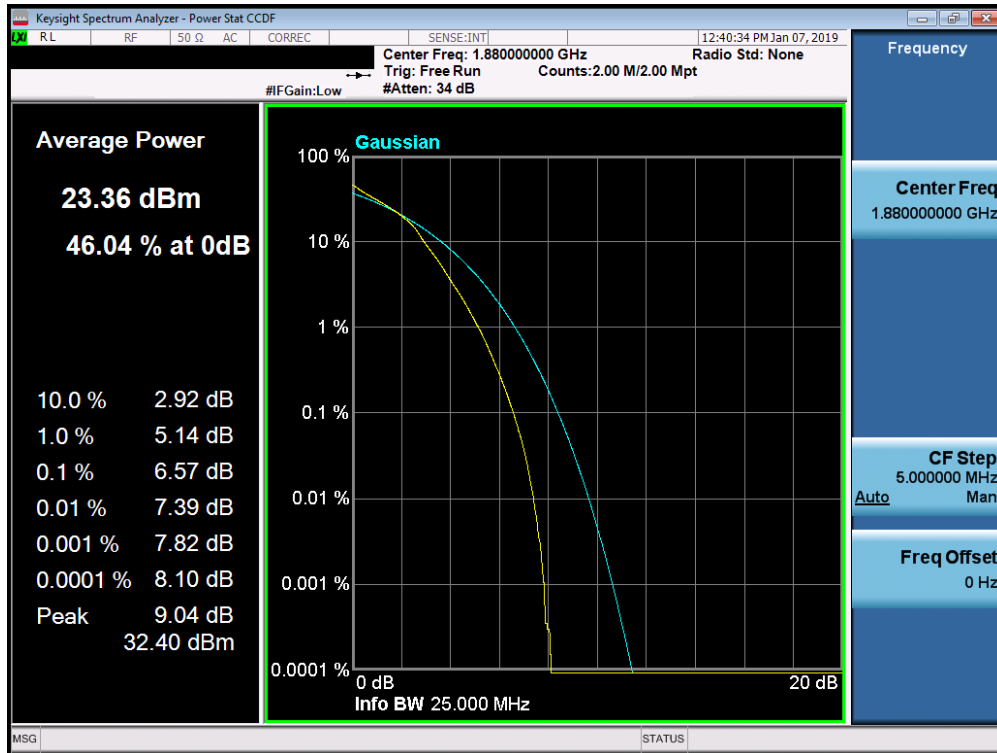


Plot 7-392. PAR Plot (Band 2 - 15.0MHz 64-QAM - Full RB Configuration)

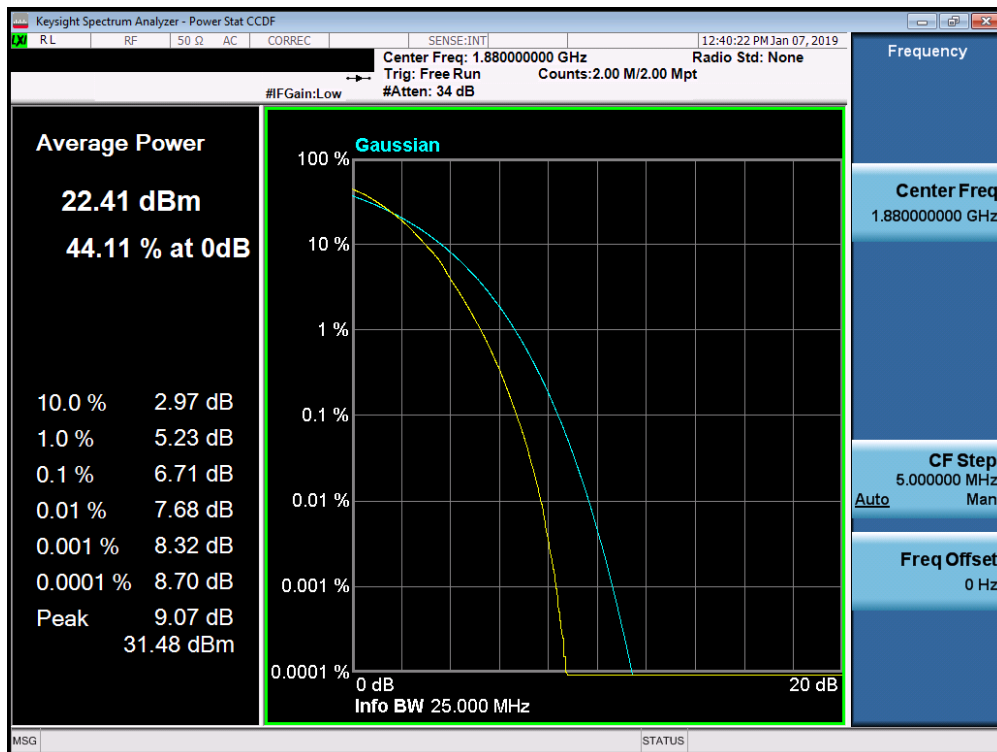


Plot 7-393. PAR Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 231 of 363                 |



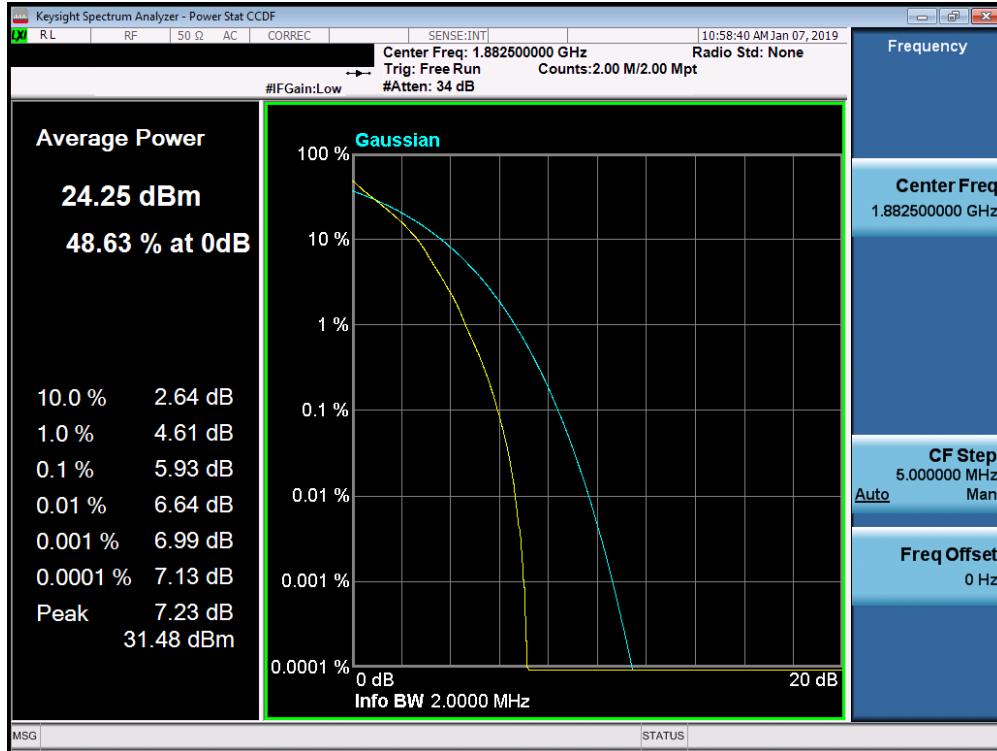
Plot 7-394. PAR Plot (Band 2 - 20.0MHz 16-QAM - Full RB Configuration)



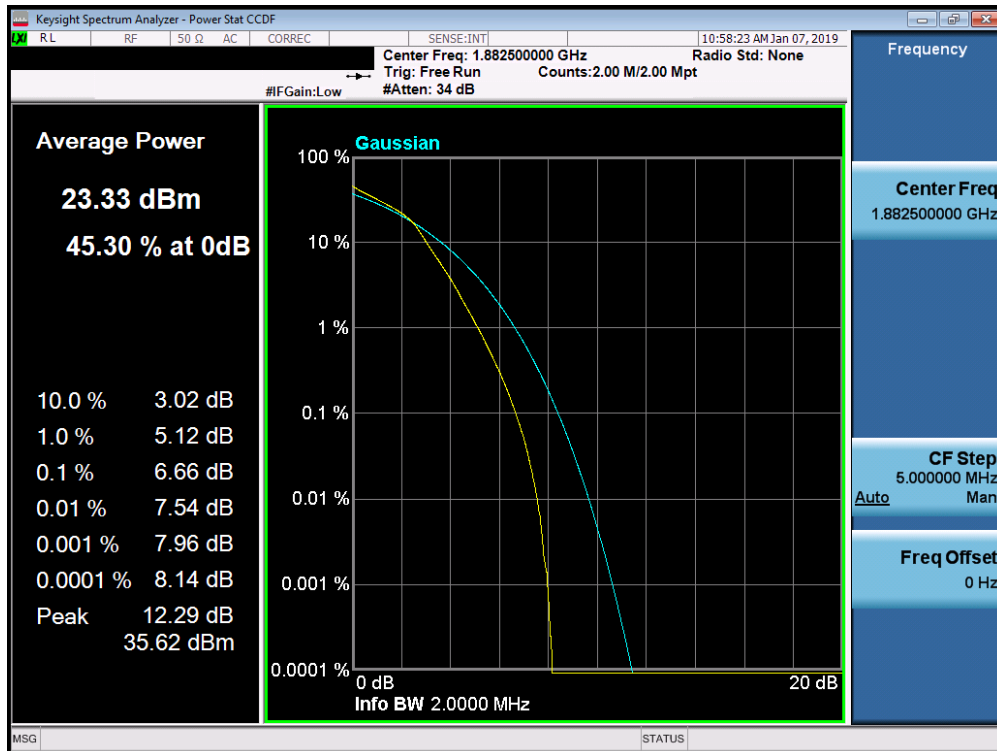
Plot 7-395. PAR Plot (Band 2 - 20.0MHz 64-QAM - Full RB Configuration)

|                                            |                                              |                            |                                 |
|--------------------------------------------|----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019         | EUT Type:<br>Tablet Device | Page 232 of 363                 |

## Band 25

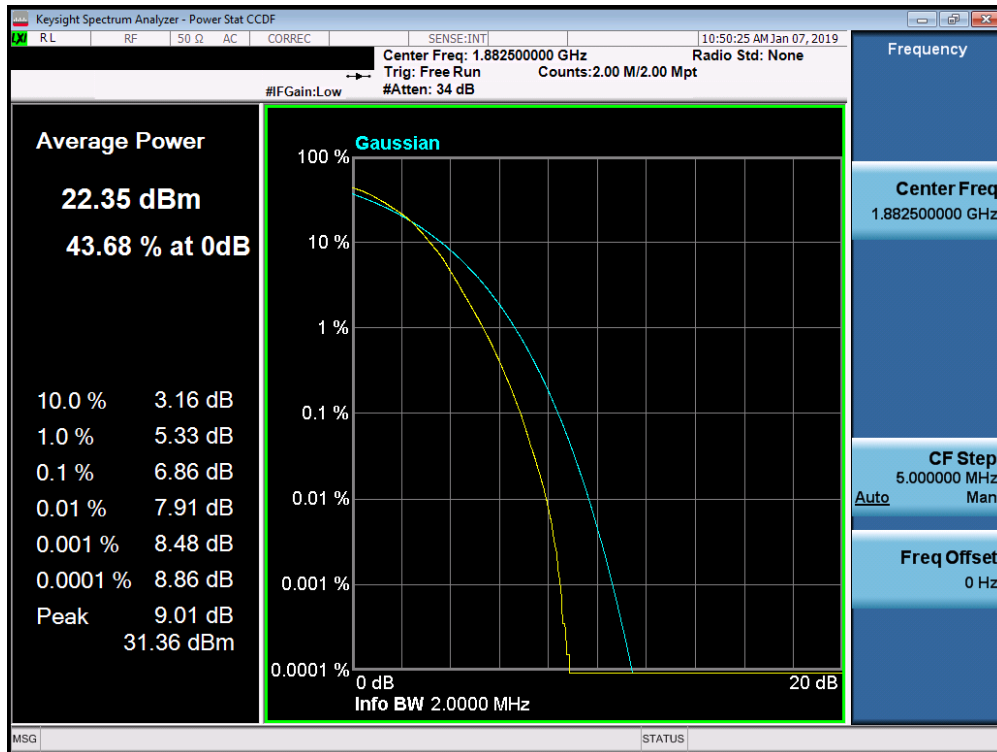


Plot 7-396. PAR Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

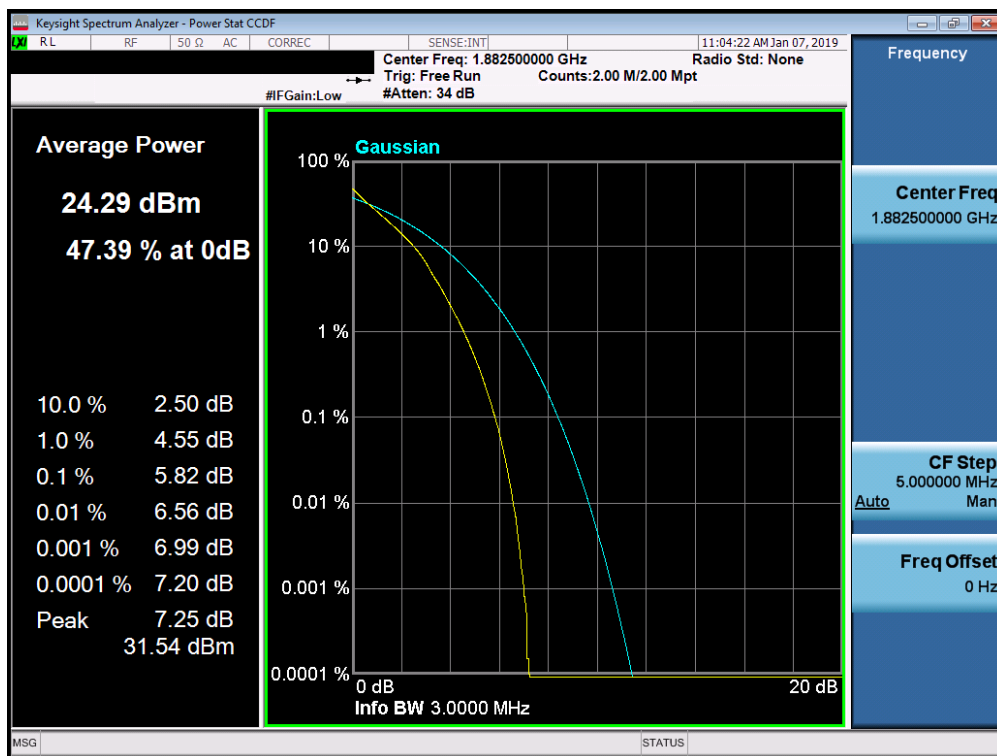


Plot 7-397. PAR Plot (Band 25 - 1.4MHz 16-QAM - Full RB Configuration)

|                                            |                                           |                            |                                 |
|--------------------------------------------|-------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019      | EUT Type:<br>Tablet Device | Page 233 of 363                 |



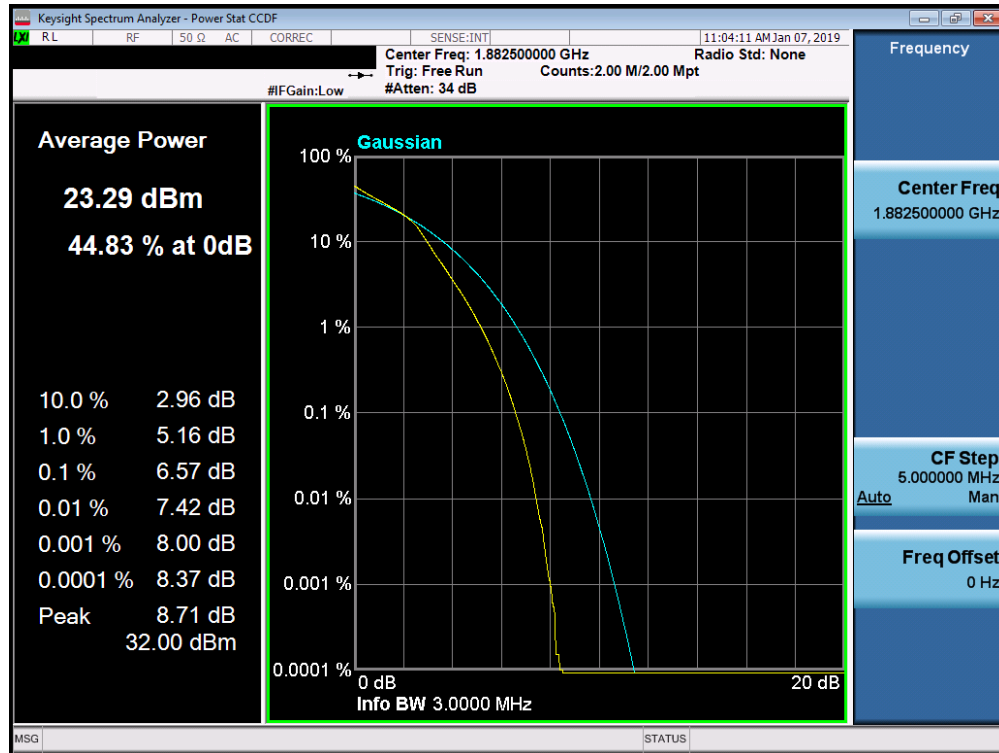
Plot 7-398. PAR Plot (Band 25 - 1.4MHz 64-QAM - Full RB Configuration)



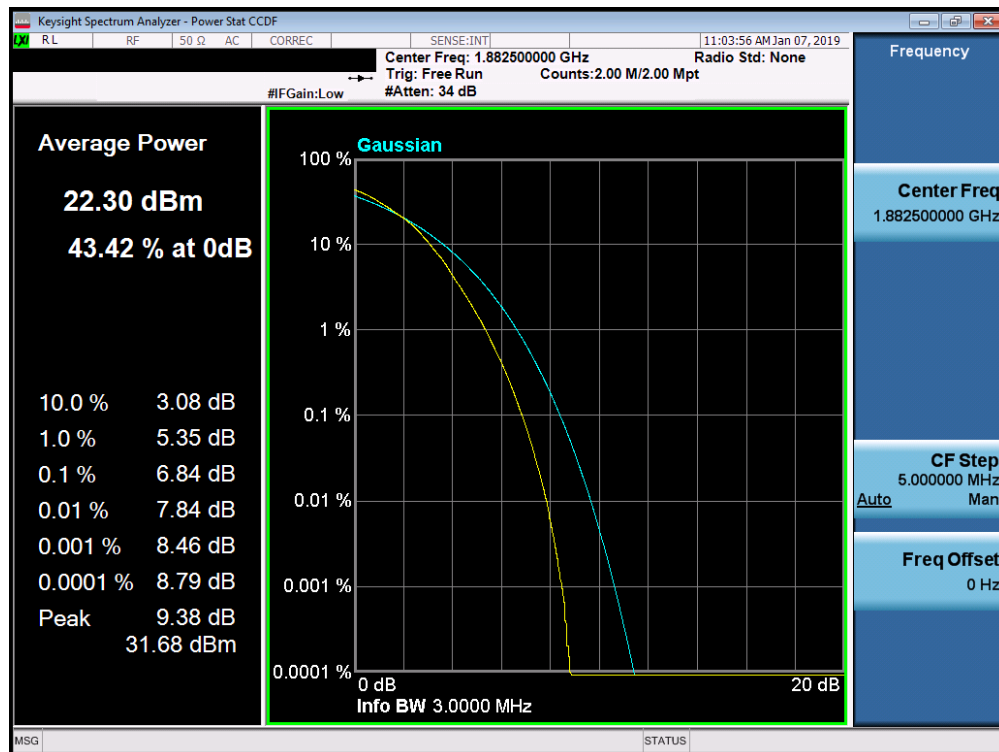
Plot 7-399. PAR Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 234 of 363                 |



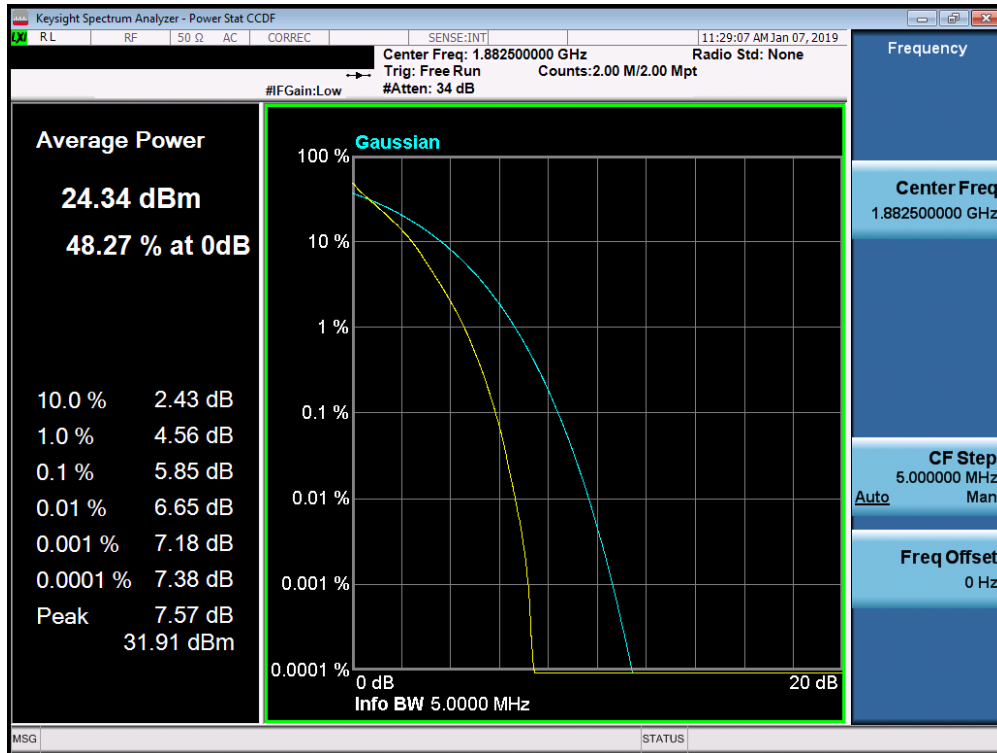


Plot 7-400. PAR Plot (Band 25 - 3.0MHz 16-QAM - Full RB Configuration)

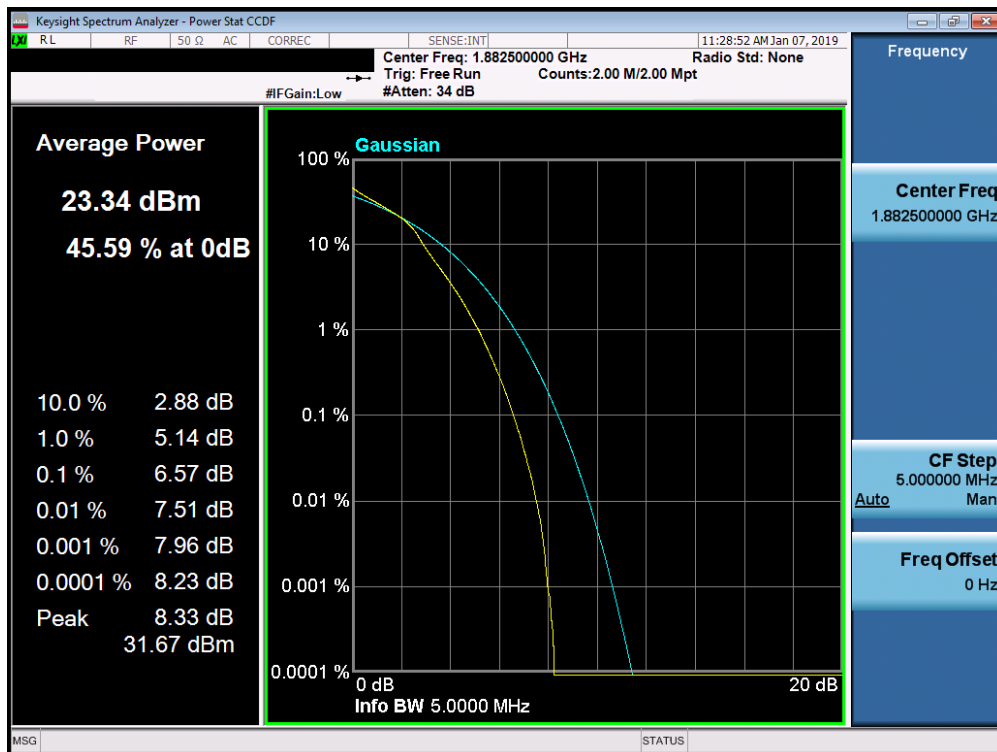


Plot 7-401. PAR Plot (Band 25 - 3.0MHz 64-QAM - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 235 of 363                 |

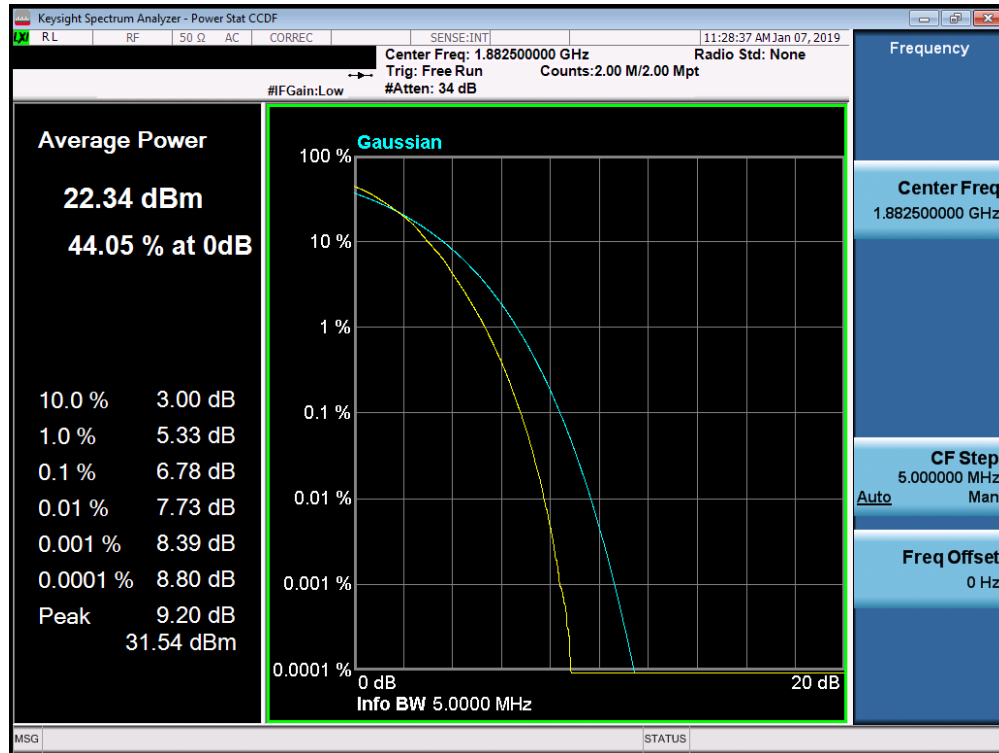


Plot 7-402. PAR Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

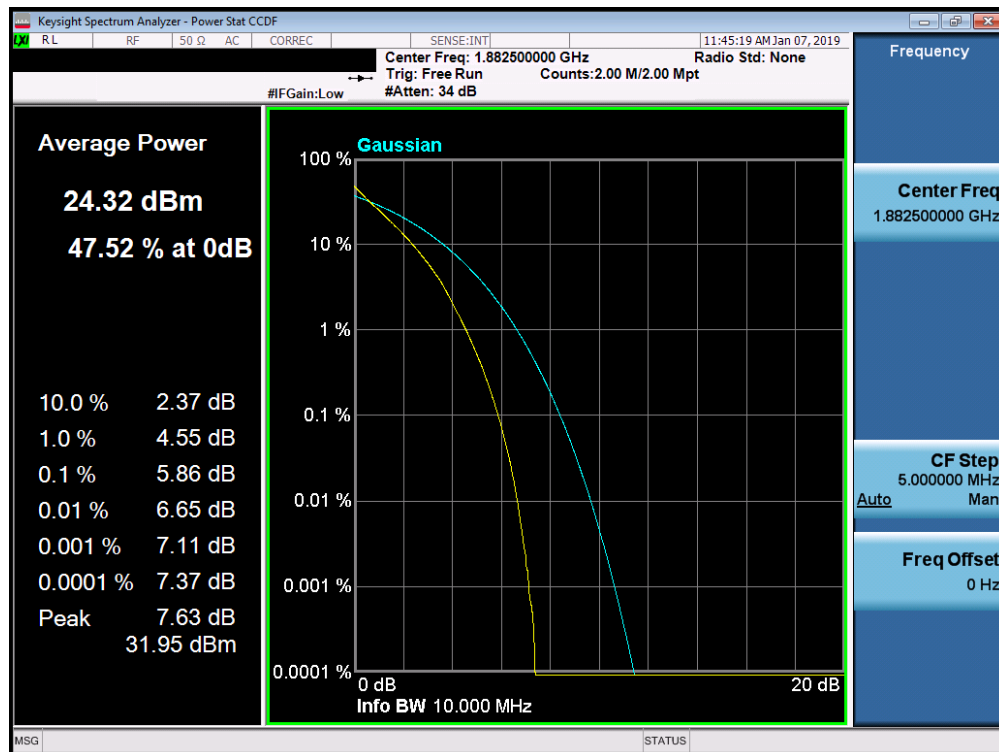


Plot 7-403. PAR Plot (Band 25 - 5.0MHz 16-QAM - Full RB Configuration)

|                                            |                                              |                            |                                 |
|--------------------------------------------|----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019         | EUT Type:<br>Tablet Device | Page 236 of 363                 |

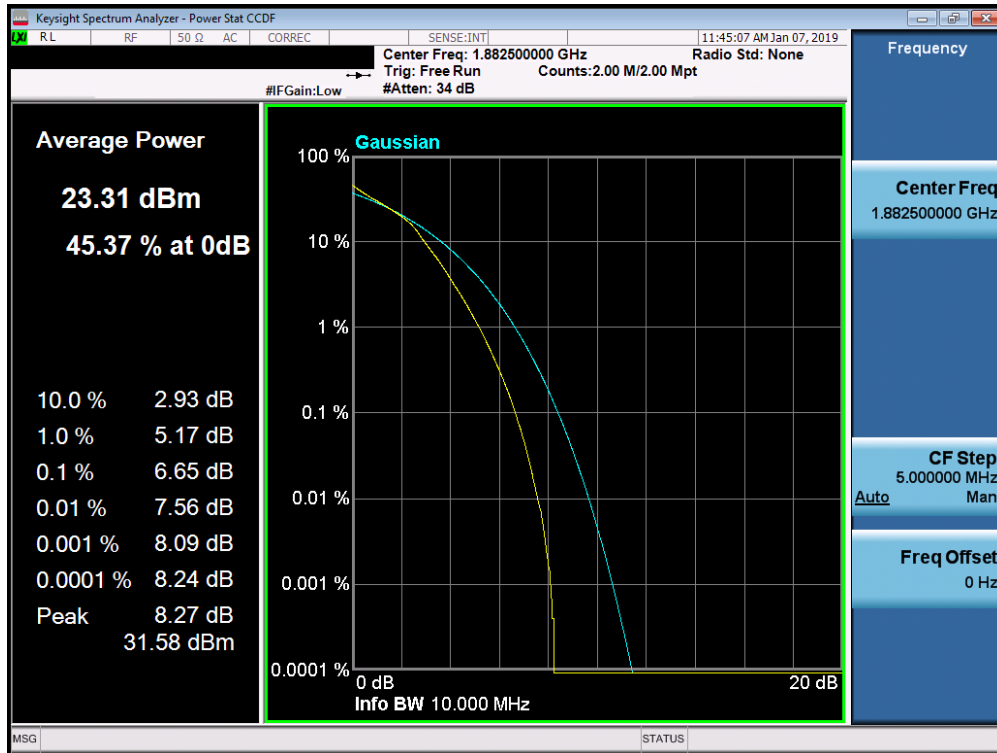


Plot 7-404. PAR Plot (Band 25 - 5.0MHz 64-QAM - Full RB Configuration)

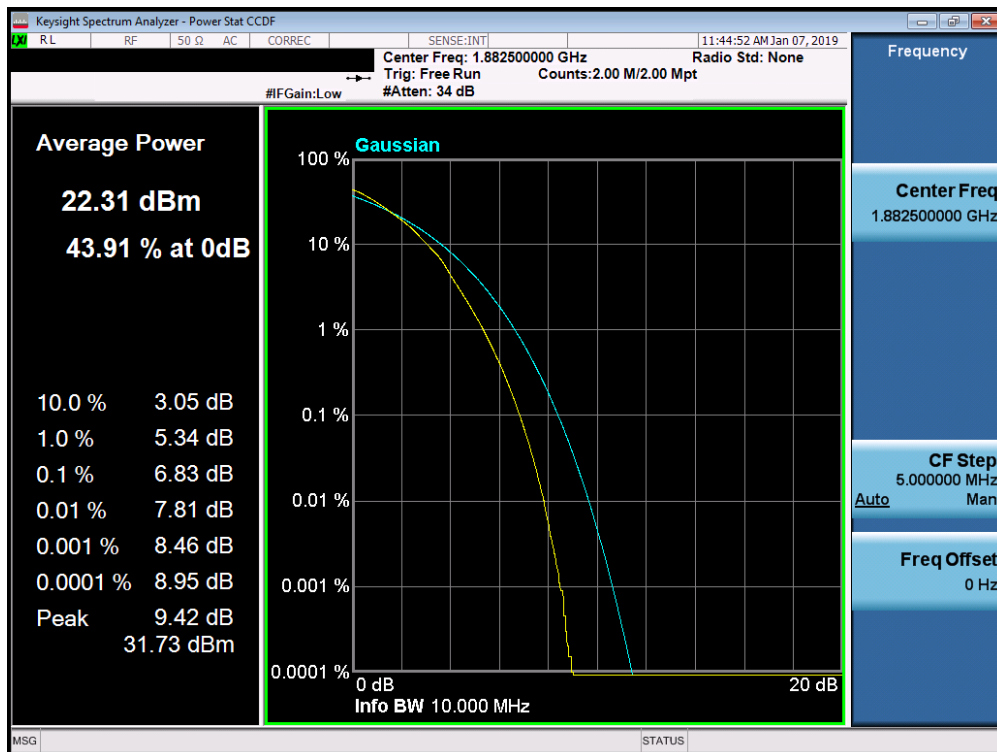


Plot 7-405. PAR Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 237 of 363                 |

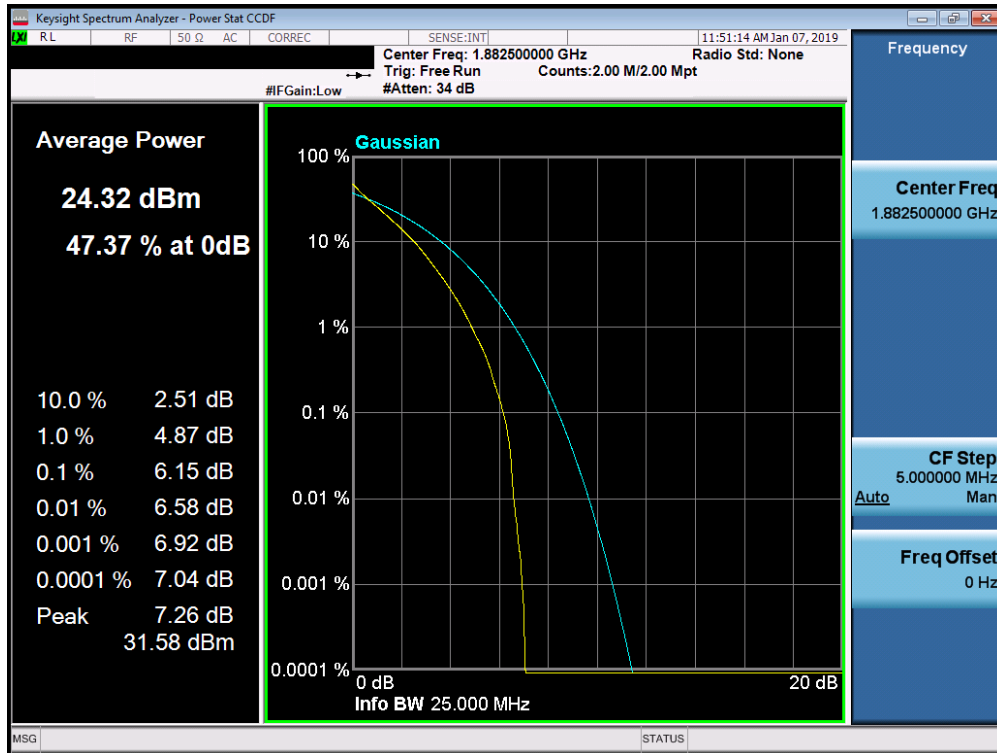


Plot 7-406. PAR Plot (Band 25 - 10.0MHz 16-QAM - Full RB Configuration)

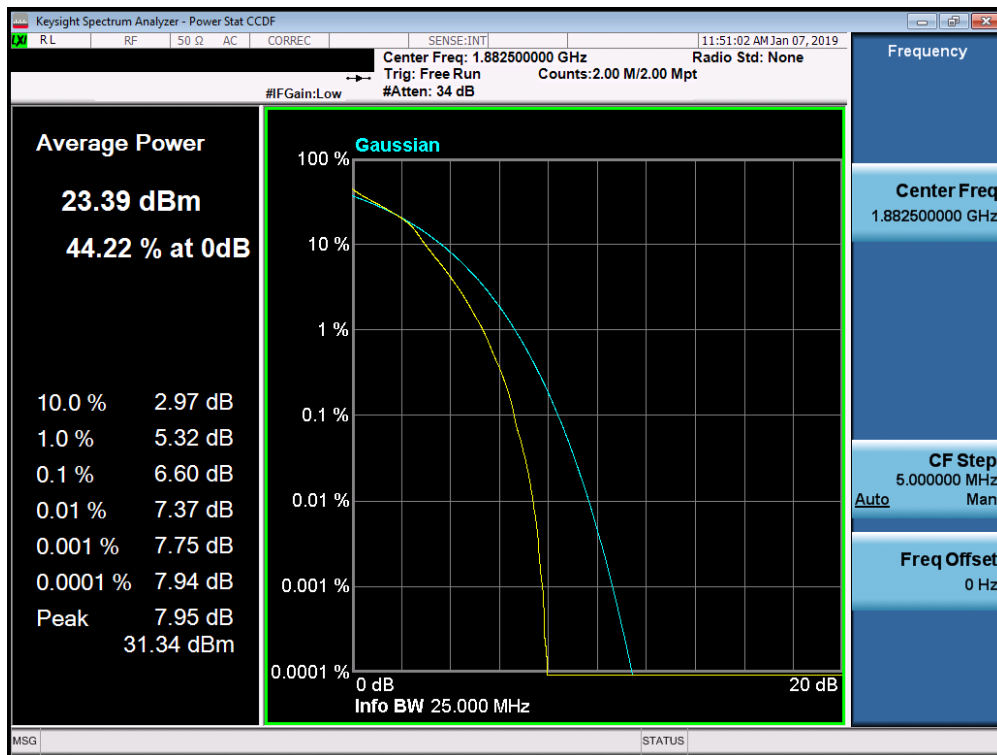


Plot 7-407. PAR Plot (Band 25 - 10.0MHz 64-QAM - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 238 of 363                 |

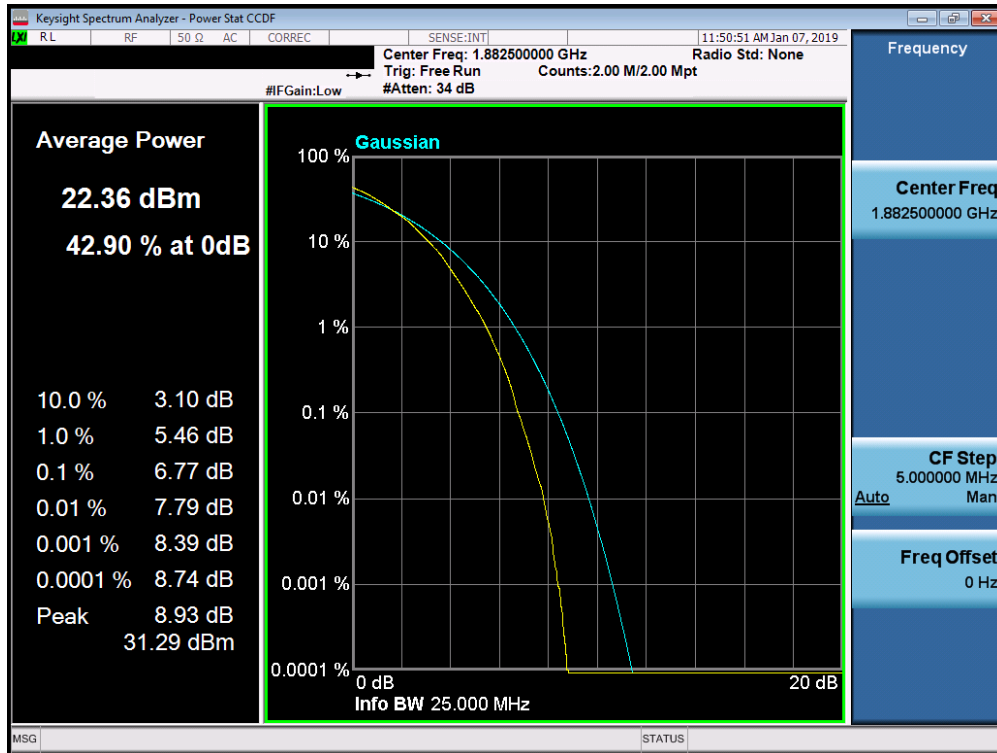


Plot 7-408. PAR Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

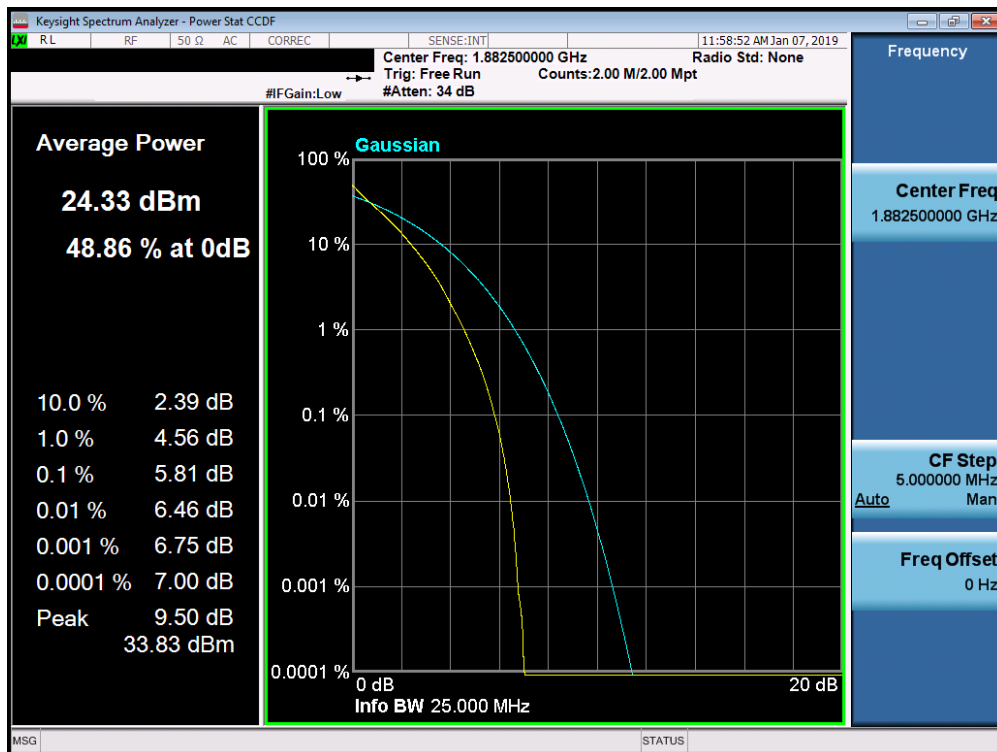


Plot 7-409. PAR Plot (Band 25 - 15.0MHz 16-QAM - Full RB Configuration)

|                                            |                                              |                            |                                 |
|--------------------------------------------|----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019         | EUT Type:<br>Tablet Device | Page 239 of 363                 |

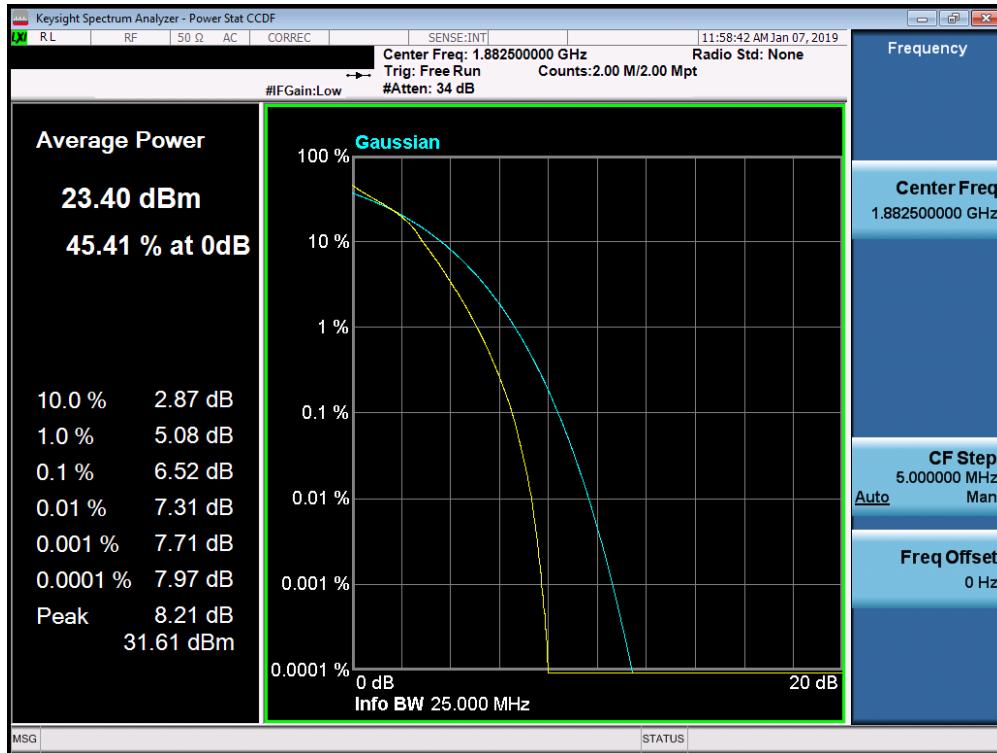


Plot 7-410. PAR Plot (Band 25 - 15.0MHz 64-QAM - Full RB Configuration)

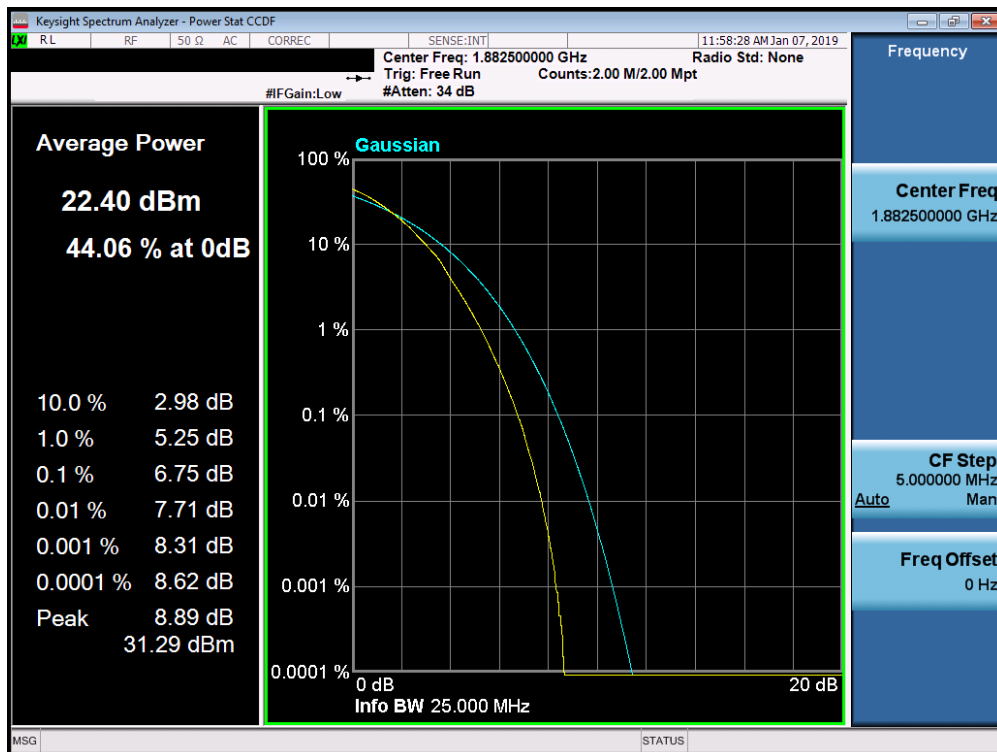


Plot 7-411. PAR Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)

|                                            |                                               |                            |                                 |
|--------------------------------------------|-----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019          | EUT Type:<br>Tablet Device | Page 240 of 363                 |



Plot 7-412. PAR Plot (Band 25 - 20.0MHz 16-QAM - Full RB Configuration)



Plot 7-413. PAR Plot (Band 25 - 20.0MHz 64-QAM - Full RB Configuration)

|                                            |                                              |                            |                                 |
|--------------------------------------------|----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019         | EUT Type:<br>Tablet Device | Page 241 of 363                 |



## 7.6 Additional Maximum Power Reduction (A-MPR)

### §2.1046

#### Test Overview

A-MPR is implemented in this device when operating at Power Class 2 in LTE Band 41 per the A-MPR specification in 3GPP TS 36.101. The conducted powers are shown herein to cover the different A-MPR levels specified in the standard. Conducted power measurements are performed to measure the average output power of the EUT. The averaging is to be performed only over duration of active transmissions at maximum output power level. The average measurements do not include averaging over periods when the transmitter is quiescent or when operating at reduced power level.

#### Test Procedure Used

KDB 971168 D01 v03

#### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below



**Figure 7-5. Conducted Power Measurement Setup**

#### Test Notes

None

|                                            |                                                                                                                                   |                            |                                 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019                                                                                              | EUT Type:<br>Tablet Device | Page 242 of 363                 |

| Test Case | NS | MCC | MNC | Channel BW [MHz] | Channel Number | Channel Frequency [MHz] | Modulation | RB Size | RB Offset | MPR [dB] | A-MPR [dB] | Measured Power [dBm] | Lowest Typical Power [dBm] | Delta [dB] |
|-----------|----|-----|-----|------------------|----------------|-------------------------|------------|---------|-----------|----------|------------|----------------------|----------------------------|------------|
| 1         | 01 | 312 | 530 | 5                | 39675          | 2498.5                  | QPSK       | 1       | 0         | 0        | ≤ 3        | 24.65                | 23.5                       | 1.15       |
|           |    |     |     |                  |                |                         | 16-QAM     |         |           | ≤ 1      |            | 24.22                | 22.5                       | 1.72       |
|           |    |     |     |                  |                |                         | 64-QAM     |         |           | ≤ 2      |            | 23.31                | 21.5                       | 1.81       |
| 2         |    |     |     | 5                | 39675          | 2498.5                  | QPSK       | 1       | 9         | 0        | 0          | 26.65                | 26.5                       | 0.15       |
|           |    |     |     |                  |                |                         | 16-QAM     |         |           | ≤ 1      |            | 26.14                | 25.5                       | 0.64       |
|           |    |     |     |                  |                |                         | 64-QAM     |         |           | ≤ 2      |            | 25.24                | 24.5                       | 0.74       |
| 3         |    |     |     | 10               | 39700          | 2501                    | QPSK       | 1       | 0         | 0        | ≤ 5        | 23.63                | 21.5                       | 2.13       |
|           |    |     |     |                  |                |                         | 16-QAM     | 1       | 0         | ≤ 1      |            | 23.35                | 20.5                       | 2.85       |
|           |    |     |     |                  |                |                         | 64-QAM     | 1       | 0         | ≤ 2      |            | 22.05                | 19.5                       | 2.55       |
| 4         |    |     |     | 10               | 39700          | 2501                    | QPSK       | 20      | 0         | 0        | ≤ 2        | 24.52                | 23.5                       | 1.02       |
|           |    |     |     |                  |                |                         | 16-QAM     | 20      | 0         | ≤ 1      |            | 23.57                | 22.5                       | 1.07       |
|           |    |     |     |                  |                |                         | 64-QAM     | 20      | 0         | ≤ 2      |            | 22.53                | 21.5                       | 1.03       |
| 5         |    |     |     | 10               | 39700          | 2501                    | QPSK       | 50      | 0         | 0        | ≤ 3        | 23.45                | 22.5                       | 0.95       |
|           |    |     |     |                  |                |                         | 16-QAM     | 50      | 0         | ≤ 1      |            | 22.44                | 21.5                       | 0.94       |
|           |    |     |     |                  |                |                         | 64-QAM     | 50      | 0         | ≤ 2      |            | 21.45                | 20.5                       | 0.95       |
| 6         |    |     |     | 10               | 39700          | 2501                    | QPSK       | 25      | 20        | 0        | ≤ 1        | 24.56                | 24.5                       | 0.06       |
|           |    |     |     |                  |                |                         | 16-QAM     | 25      | 20        | ≤ 1      |            | 23.52                | 23.5                       | 0.02       |
|           |    |     |     |                  |                |                         | 64-QAM     | 25      | 20        | ≤ 2      |            | 22.53                | 22.5                       | 0.03       |
| 7         |    |     |     | 10               | 39700          | 2501                    | QPSK       | 1       | 36        | 0        | 0          | 26.52                | 26.5                       | 0.02       |
|           |    |     |     |                  |                |                         | 16-QAM     | 1       | 36        | ≤ 1      |            | 26.12                | 25.5                       | 0.62       |
|           |    |     |     |                  |                |                         | 64-QAM     | 1       | 36        | ≤ 2      |            | 24.92                | 24.5                       | 0.42       |
| 8         |    |     |     | 15               | 39725          | 2503.5                  | QPSK       | 1       | 0         | 0        | ≤ 5        | 23.69                | 21.5                       | 2.19       |
|           |    |     |     |                  |                |                         | 16-QAM     | 1       | 0         | ≤ 1      |            | 23.12                | 20.5                       | 2.62       |
|           |    |     |     |                  |                |                         | 64-QAM     | 1       | 0         | ≤ 2      |            | 22.11                | 19.5                       | 2.61       |
| 9         |    |     |     | 15               | 39725          | 2503.5                  | QPSK       | 20      | 0         | 0        | ≤ 2        | 24.53                | 23.5                       | 1.03       |
|           |    |     |     |                  |                |                         | 16-QAM     | 20      | 0         | ≤ 1      |            | 23.55                | 22.5                       | 1.05       |
|           |    |     |     |                  |                |                         | 64-QAM     | 20      | 0         | ≤ 2      |            | 22.54                | 21.5                       | 1.04       |
| 10        |    |     |     | 15               | 39725          | 2503.5                  | QPSK       | 75      | 0         | 0        | ≤ 4        | 22.47                | 21.5                       | 0.97       |
|           |    |     |     |                  |                |                         | 16-QAM     | 75      | 0         | ≤ 1      |            | 21.46                | 20.5                       | 0.96       |
|           |    |     |     |                  |                |                         | 64-QAM     | 75      | 0         | ≤ 2      |            | 20.45                | 19.5                       | 0.95       |
| 11        |    |     |     | 15               | 39725          | 2503.5                  | QPSK       | 50      | 15        | 0        | ≤ 3        | 24.48                | 22.5                       | 1.98       |
|           |    |     |     |                  |                |                         | 16-QAM     | 50      | 15        | ≤ 1      |            | 23.50                | 21.5                       | 2.00       |
|           |    |     |     |                  |                |                         | 64-QAM     | 50      | 15        | ≤ 2      |            | 22.47                | 20.5                       | 1.97       |
| 12        |    |     |     | 15               | 39725          | 2503.5                  | QPSK       | 1       | 60        | 0        | 0          | 26.64                | 26.5                       | 0.14       |
|           |    |     |     |                  |                |                         | 16-QAM     | 1       | 60        | ≤ 1      |            | 26.02                | 25.5                       | 0.52       |
|           |    |     |     |                  |                |                         | 64-QAM     | 1       | 60        | ≤ 2      |            | 25.06                | 24.5                       | 0.56       |
| 13        |    |     |     | 20               | 39750          | 2506                    | QPSK       | 1       | 0         | 0        | ≤ 5        | 23.69                | 21.5                       | 2.19       |
|           |    |     |     |                  |                |                         | 16-QAM     | 1       | 0         | ≤ 1      |            | 23.29                | 20.5                       | 2.79       |
|           |    |     |     |                  |                |                         | 64-QAM     | 1       | 0         | ≤ 2      |            | 22.14                | 19.5                       | 2.64       |
| 14        |    |     |     | 20               | 39750          | 2506                    | QPSK       | 20      | 0         | 0        | ≤ 2        | 24.55                | 23.5                       | 1.05       |
|           |    |     |     |                  |                |                         | 16-QAM     | 20      | 0         | ≤ 1      |            | 23.57                | 22.5                       | 1.07       |
|           |    |     |     |                  |                |                         | 64-QAM     | 20      | 0         | ≤ 2      |            | 22.64                | 21.5                       | 1.14       |
| 15        |    |     |     | 20               | 39750          | 2506                    | QPSK       | 100     | 0         | 0        | ≤ 4        | 22.56                | 21.5                       | 1.06       |
|           |    |     |     |                  |                |                         | 16-QAM     | 100     | 0         | ≤ 1      |            | 21.54                | 20.5                       | 1.04       |
|           |    |     |     |                  |                |                         | 64-QAM     | 100     | 0         | ≤ 2      |            | 20.56                | 19.5                       | 1.06       |
| 16        |    |     |     | 20               | 39750          | 2506                    | QPSK       | 75      | 24        | 0        | ≤ 3        | 24.53                | 22.5                       | 2.03       |
|           |    |     |     |                  |                |                         | 16-QAM     | 75      | 24        | ≤ 1      |            | 23.54                | 21.5                       | 2.04       |
|           |    |     |     |                  |                |                         | 64-QAM     | 75      | 24        | ≤ 2      |            | 22.55                | 20.5                       | 2.05       |
| 17        |    |     |     | 20               | 39750          | 2506                    | QPSK       | 1       | 77        | 0        | 0          | 26.57                | 26.5                       | 0.07       |
|           |    |     |     |                  |                |                         | 16-QAM     | 1       | 77        | ≤ 1      |            | 26.17                | 25.5                       | 0.67       |
|           |    |     |     |                  |                |                         | 64-QAM     | 1       | 77        | ≤ 2      |            | 24.97                | 24.5                       | 0.47       |
| 18        | 01 | 311 | 490 | 5                | 39675          | 2498.5                  | QPSK       | 1       | 0         | 0        | ≤ 3        | 24.55                | 23.5                       | 1.05       |
|           |    |     |     |                  |                |                         | 16-QAM     |         |           | ≤ 1      |            | 24.27                | 22.5                       | 1.77       |
|           |    |     |     |                  |                |                         | 64-QAM     |         |           | ≤ 2      |            | 23.21                | 21.5                       | 1.71       |
| 19        | 01 | 001 | 01  | 5                | 39675          | 2498.5                  | QPSK       | 1       | 0         | 0        | 0          | 26.58                | 26.5                       | 0.08       |
|           |    |     |     |                  |                |                         | 16-QAM     |         |           | ≤ 1      |            | 26.32                | 25.5                       | 0.82       |
|           |    |     |     |                  |                |                         | 64-QAM     |         |           | ≤ 2      |            | 25.2                 | 24.5                       | 0.70       |

**Table 7-7. A-MPR Conducted Power Measurements**

|                                            |                                                                                                                               |                            |                                 |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019                                                                                          | EUT Type:<br>Tablet Device | Page 243 of 363                 |

## 7.7 Uplink Carrier Aggregation

### §27.53(m)

#### Test Overview

The EUT is set up to transmit two contiguous LTE channels. The power level of both carriers and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10<sup>th</sup> harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

***For Band 38/41, the minimum permissible attenuation level of any spurious emission is  $55 + \log_{10}(P_{\text{Watts}})$ .***

#### Test Procedure Used

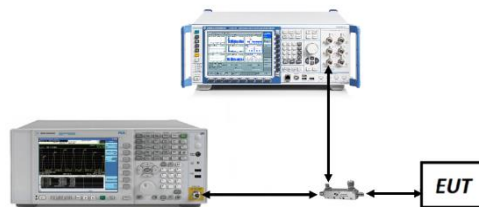
KDB 971168 D01 v03r01 – Section 6.0

#### Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to at least 10 \* the fundamental frequency (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

#### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-6. Test Instrument & Measurement Setup**

|                                            |                                                                                                                                   |                            |                                 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019                                                                                              | EUT Type:<br>Tablet Device | Page 244 of 363                 |

## Test Notes

1. Uplink carrier aggregation is only supported in this EUT while operating in Power Class 3.
2. Conducted power and spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device. The worst case (highest) powers were found while operating with QPSK modulation, as shown in the tables below, with both carriers set to transmit using 1RB.
3. Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.
4. All ports were tested and only the worst case data were reported.
5. Refer to Table 2-1 Section 2.3 of this test report for correlation between Antennas and Ports.

|                                                   |                                                                                                                                   |                                   |                                        |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------|
| <b>FCC ID:</b> BCGA2153                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                                   | <b>Approved by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>1C1811080028-03-R1.BCG | <b>Test Dates:</b><br>11/09/2018-02/06/2019                                                                                       | <b>EUT Type:</b><br>Tablet Device | Page 245 of 363                        |

## Port A

| Power State | PCC      |                        |                     |                                |            |               |                     | SCC      |                        |                     |                                |            |               |                     | Power<br>ULCA<br>Tx.Power<br>(dBm) |
|-------------|----------|------------------------|---------------------|--------------------------------|------------|---------------|---------------------|----------|------------------------|---------------------|--------------------------------|------------|---------------|---------------------|------------------------------------|
|             | PCC Band | PCC Bandwidth<br>[MHz] | PCC (UL)<br>Channel | PCC (UL)<br>Frequency<br>[MHz] | Modulation | PCC UL#<br>RB | PCC UL<br>RB Offset | SCC Band | SCC Bandwidth<br>[MHz] | SCC (UL)<br>Channel | SCC (UL)<br>Frequency<br>[MHz] | Modulation | PCC UL#<br>RB | PCC UL<br>RB Offset |                                    |
| Max         | LTE B7   | 10                     | 20800               | 2505                           | QPSK       | 1             | 49                  | LTE B7   | 20                     | 20944               | 2519.4                         | QPSK       | 1             | 0                   | 24.72                              |
| Max         | LTE B7   | 15                     | 20825               | 2507.5                         | QPSK       | 1             | 74                  | LTE B7   | 10                     | 20945               | 2519.5                         | QPSK       | 1             | 0                   | 24.91                              |
| Max         | LTE B7   | 15                     | 20825               | 2507.5                         | QPSK       | 1             | 74                  | LTE B7   | 15                     | 20975               | 2522.5                         | QPSK       | 1             | 0                   | 24.82                              |
| Max         | LTE B7   | 15                     | 20825               | 2507.5                         | QPSK       | 1             | 74                  | LTE B7   | 20                     | 20996               | 2524.6                         | QPSK       | 1             | 0                   | 24.97                              |
| Max         | LTE B7   | 20                     | 20850               | 2510                           | QPSK       | 1             | 99                  | LTE B7   | 10                     | 20994               | 2524.4                         | QPSK       | 1             | 0                   | 24.94                              |
| Max         | LTE B7   | 20                     | 20850               | 2510                           | QPSK       | 1             | 99                  | LTE B7   | 15                     | 21021               | 2527.1                         | QPSK       | 1             | 0                   | 25.00                              |
| Max         | LTE B7   | 20                     | 20850               | 2510                           | QPSK       | 1             | 99                  | LTE B7   | 20                     | 21048               | 2529.8                         | QPSK       | 1             | 0                   | 25.00                              |
| Max         | LTE B7   | 10                     | 21100               | 2535                           | QPSK       | 1             | 49                  | LTE B7   | 20                     | 21244               | 2549.4                         | QPSK       | 1             | 0                   | 24.91                              |
| Max         | LTE B7   | 15                     | 21100               | 2535                           | QPSK       | 1             | 74                  | LTE B7   | 10                     | 21220               | 2547                           | QPSK       | 1             | 0                   | 24.81                              |
| Max         | LTE B7   | 15                     | 21100               | 2535                           | QPSK       | 1             | 74                  | LTE B7   | 15                     | 21250               | 2550                           | QPSK       | 1             | 0                   | 24.88                              |
| Max         | LTE B7   | 15                     | 21100               | 2535                           | QPSK       | 1             | 74                  | LTE B7   | 20                     | 21271               | 2552.1                         | QPSK       | 1             | 0                   | 24.95                              |
| Max         | LTE B7   | 20                     | 21100               | 2535                           | QPSK       | 1             | 99                  | LTE B7   | 10                     | 21244               | 2549.4                         | QPSK       | 1             | 0                   | 24.81                              |
| Max         | LTE B7   | 20                     | 21100               | 2535                           | QPSK       | 1             | 99                  | LTE B7   | 15                     | 21271               | 2552.1                         | QPSK       | 1             | 0                   | 24.65                              |
| Max         | LTE B7   | 20                     | 21100               | 2535                           | QPSK       | 1             | 99                  | LTE B7   | 20                     | 21298               | 2554.8                         | QPSK       | 1             | 0                   | 24.62                              |
| Max         | LTE B7   | 10                     | 21400               | 2565                           | QPSK       | 1             | 0                   | LTE B7   | 20                     | 21256               | 2550.6                         | QPSK       | 1             | 99                  | 24.61                              |
| Max         | LTE B7   | 15                     | 21375               | 2562.5                         | QPSK       | 1             | 0                   | LTE B7   | 10                     | 21255               | 2550.5                         | QPSK       | 1             | 49                  | 24.74                              |
| Max         | LTE B7   | 15                     | 21375               | 2562.5                         | QPSK       | 1             | 0                   | LTE B7   | 15                     | 21225               | 2547.5                         | QPSK       | 1             | 74                  | 24.65                              |
| Max         | LTE B7   | 15                     | 21375               | 2562.5                         | QPSK       | 1             | 0                   | LTE B7   | 20                     | 21204               | 2545.4                         | QPSK       | 1             | 99                  | 24.86                              |
| Max         | LTE B7   | 20                     | 21350               | 2560                           | QPSK       | 1             | 0                   | LTE B7   | 10                     | 21206               | 2545.6                         | QPSK       | 1             | 49                  | 24.60                              |
| Max         | LTE B7   | 20                     | 21350               | 2560                           | QPSK       | 1             | 0                   | LTE B7   | 15                     | 21179               | 2542.9                         | QPSK       | 1             | 74                  | 24.59                              |
| Max         | LTE B7   | 20                     | 21350               | 2560                           | QPSK       | 1             | 0                   | LTE B7   | 20                     | 21152               | 2540.2                         | QPSK       | 1             | 99                  | 24.51                              |

**Table 7-8. Conducted Powers (B7 – PCC: RB Size 1 Offset Max SCC: RB Size 1 Offset 0)**

|                                            |                                                                                                                                   |                            |                                 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019                                                                                              | EUT Type:<br>Tablet Device | Page 246 of 363                 |

| Power State | PCC      |                     |                  |                          |            |            |                  | SCC      |                     |                  |                          |            |            |                  | Power               |
|-------------|----------|---------------------|------------------|--------------------------|------------|------------|------------------|----------|---------------------|------------------|--------------------------|------------|------------|------------------|---------------------|
|             | PCC Band | PCC Bandwidth [MHz] | PCC (UL) Channel | PCC (UL) Frequency [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | SCC Band | SCC Bandwidth [MHz] | SCC (UL) Channel | SCC (UL) Frequency [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | ULCA Tx.Power (dBm) |
| Max         | LTE B7   | 20                  | 20850            | 2510                     | QPSK       | 1          | 0                | LTE B7   | 20                  | 21048            | 2529.8                   | QPSK       | 1          | 0                | 20.52               |
| Max         | LTE B7   | 20                  | 20850            | 2510                     | 16-QAM     | 1          | 0                | LTE B7   | 20                  | 21048            | 2529.8                   | 16-QAM     | 1          | 0                | 20.85               |
| Max         | LTE B7   | 20                  | 20850            | 2510                     | 64-QAM     | 1          | 0                | LTE B7   | 20                  | 21048            | 2529.8                   | 64-QAM     | 1          | 0                | 20.81               |
| Max         | LTE B7   | 20                  | 20850            | 2510                     | QPSK       | 1          | 99               | LTE B7   | 20                  | 21048            | 2529.8                   | QPSK       | 1          | 99               | 20.32               |
| Max         | LTE B7   | 20                  | 20850            | 2510                     | QPSK       | 1          | 0                | LTE B7   | 20                  | 21048            | 2529.8                   | QPSK       | 1          | 99               | 16.37               |
| Max         | LTE B7   | 20                  | 20850            | 2510                     | QPSK       | 1          | 50               | LTE B7   | 20                  | 21048            | 2529.8                   | QPSK       | 1          | 50               | 20.45               |
| Max         | LTE B7   | 20                  | 20850            | 2510                     | QPSK       | 1          | 99               | LTE B7   | 20                  | 21048            | 2529.8                   | QPSK       | 1          | 0                | 25.00               |
| Max         | LTE B7   | 20                  | 20850            | 2510                     | QPSK       | 100        | 0                | LTE B7   | 20                  | 21048            | 2529.8                   | QPSK       | 100        | 0                | 23.18               |
| Max         | LTE B7   | 20                  | 20850            | 2510                     | 16-QAM     | 100        | 0                | LTE B7   | 20                  | 21048            | 2529.8                   | 16-QAM     | 100        | 0                | 22.17               |
| Max         | LTE B7   | 20                  | 20850            | 2510                     | 64-QAM     | 100        | 0                | LTE B7   | 20                  | 21048            | 2529.8                   | 64-QAM     | 100        | 0                | 22.15               |

**Table 7-9. Conducted Powers (B7 with Various Combinations for 20MHz Channel Bandwidth)**

|                                                   |                                                                                                                               |                                   |                                        |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------|
| <b>FCC ID:</b> BCGA2153                           |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                                   | <b>Approved by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>1C1811080028-03-R1.BCG | <b>Test Dates:</b><br>11/09/2018-02/06/2019                                                                                   | <b>EUT Type:</b><br>Tablet Device | Page 247 of 363                        |

| Power State | PCC      |                     |                  |                          |            |            |                  | SCC      |                     |                  |                          |            |            |                  | Power<br>ULCA<br>Tx.Power<br>(dBm) |
|-------------|----------|---------------------|------------------|--------------------------|------------|------------|------------------|----------|---------------------|------------------|--------------------------|------------|------------|------------------|------------------------------------|
|             | PCC Band | PCC Bandwidth [MHz] | PCC (UL) Channel | PCC (UL) Frequency [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | SCC Band | SCC Bandwidth [MHz] | SCC (UL) Channel | SCC (UL) Frequency [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset |                                    |
| Max         | LTE B41  | 5                   | 39675            | 2498.5                   | QPSK       | 1          | 24               | LTE B41  | 20                  | 39792            | 2510.2                   | QPSK       | 1          | 0                | 24.41                              |
| Max         | LTE B41  | 10                  | 39700            | 2501                     | QPSK       | 1          | 49               | LTE B41  | 15                  | 39820            | 2513                     | QPSK       | 1          | 0                | 24.70                              |
| Max         | LTE B41  | 10                  | 39700            | 2501                     | QPSK       | 1          | 49               | LTE B41  | 20                  | 39844            | 2515.4                   | QPSK       | 1          | 0                | 24.65                              |
| Max         | LTE B41  | 15                  | 39725            | 2503.5                   | QPSK       | 1          | 74               | LTE B41  | 10                  | 39845            | 2515.5                   | QPSK       | 1          | 0                | 24.54                              |
| Max         | LTE B41  | 15                  | 39725            | 2503.5                   | QPSK       | 1          | 74               | LTE B41  | 15                  | 39875            | 2518.5                   | QPSK       | 1          | 0                | 24.45                              |
| Max         | LTE B41  | 15                  | 39725            | 2503.5                   | QPSK       | 1          | 74               | LTE B41  | 20                  | 39896            | 2520.6                   | QPSK       | 1          | 0                | 24.65                              |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | QPSK       | 1          | 99               | LTE B41  | 5                   | 39867            | 2517.7                   | QPSK       | 1          | 0                | 24.52                              |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | QPSK       | 1          | 99               | LTE B41  | 10                  | 39894            | 2520.4                   | QPSK       | 1          | 0                | 24.53                              |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | QPSK       | 1          | 99               | LTE B41  | 15                  | 39921            | 2523.1                   | QPSK       | 1          | 0                | 24.52                              |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | QPSK       | 1          | 99               | LTE B41  | 20                  | 39948            | 2525.8                   | QPSK       | 1          | 0                | 24.64                              |
| Max         | LTE B41  | 5                   | 40620            | 2593                     | QPSK       | 1          | 24               | LTE B41  | 20                  | 40737            | 2604.7                   | QPSK       | 1          | 0                | 24.62                              |
| Max         | LTE B41  | 10                  | 40620            | 2593                     | QPSK       | 1          | 49               | LTE B41  | 15                  | 40740            | 2605                     | QPSK       | 1          | 0                | 24.72                              |
| Max         | LTE B41  | 10                  | 40620            | 2593                     | QPSK       | 1          | 49               | LTE B41  | 20                  | 40764            | 2607.4                   | QPSK       | 1          | 0                | 24.74                              |
| Max         | LTE B41  | 15                  | 40620            | 2593                     | QPSK       | 1          | 74               | LTE B41  | 10                  | 40740            | 2605                     | QPSK       | 1          | 0                | 24.67                              |
| Max         | LTE B41  | 15                  | 40620            | 2593                     | QPSK       | 1          | 74               | LTE B41  | 15                  | 40770            | 2608                     | QPSK       | 1          | 0                | 24.60                              |
| Max         | LTE B41  | 15                  | 40620            | 2593                     | QPSK       | 1          | 74               | LTE B41  | 20                  | 40791            | 2610.1                   | QPSK       | 1          | 0                | 24.71                              |
| Max         | LTE B41  | 20                  | 40620            | 2593                     | QPSK       | 1          | 99               | LTE B41  | 5                   | 40737            | 2604.7                   | QPSK       | 1          | 0                | 25.00                              |
| Max         | LTE B41  | 20                  | 40620            | 2593                     | QPSK       | 1          | 99               | LTE B41  | 10                  | 40764            | 2607.4                   | QPSK       | 1          | 0                | 24.54                              |
| Max         | LTE B41  | 20                  | 40620            | 2593                     | QPSK       | 1          | 99               | LTE B41  | 15                  | 40791            | 2610.1                   | QPSK       | 1          | 0                | 24.58                              |
| Max         | LTE B41  | 20                  | 40620            | 2593                     | QPSK       | 1          | 99               | LTE B41  | 20                  | 40818            | 2612.8                   | QPSK       | 1          | 0                | 24.79                              |
| Max         | LTE B41  | 5                   | 41565            | 2687.5                   | QPSK       | 1          | 0                | LTE B41  | 20                  | 41448            | 2675.8                   | QPSK       | 1          | 99               | 24.48                              |
| Max         | LTE B41  | 10                  | 41540            | 2685                     | QPSK       | 1          | 0                | LTE B41  | 15                  | 41420            | 2673                     | QPSK       | 1          | 74               | 24.43                              |
| Max         | LTE B41  | 10                  | 41540            | 2685                     | QPSK       | 1          | 0                | LTE B41  | 20                  | 41396            | 2670.6                   | QPSK       | 1          | 99               | 24.46                              |
| Max         | LTE B41  | 15                  | 41515            | 2682.5                   | QPSK       | 1          | 0                | LTE B41  | 10                  | 41395            | 2670.5                   | QPSK       | 1          | 49               | 24.58                              |
| Max         | LTE B41  | 15                  | 41515            | 2682.5                   | QPSK       | 1          | 0                | LTE B41  | 15                  | 41365            | 2667.5                   | QPSK       | 1          | 74               | 24.50                              |
| Max         | LTE B41  | 15                  | 41515            | 2682.5                   | QPSK       | 1          | 0                | LTE B41  | 20                  | 41344            | 2665.4                   | QPSK       | 1          | 99               | 24.45                              |
| Max         | LTE B41  | 20                  | 41490            | 2680                     | QPSK       | 1          | 0                | LTE B41  | 5                   | 41373            | 2668.3                   | QPSK       | 1          | 24               | 24.63                              |
| Max         | LTE B41  | 20                  | 41490            | 2680                     | QPSK       | 1          | 0                | LTE B41  | 10                  | 41346            | 2665.6                   | QPSK       | 1          | 49               | 24.65                              |
| Max         | LTE B41  | 20                  | 41490            | 2680                     | QPSK       | 1          | 0                | LTE B41  | 15                  | 41319            | 2662.9                   | QPSK       | 1          | 74               | 24.70                              |
| Max         | LTE B41  | 20                  | 41490            | 2680                     | QPSK       | 1          | 0                | LTE B41  | 20                  | 41292            | 2660.2                   | QPSK       | 1          | 99               | 24.59                              |

**Table 7-10. Conducted Powers (B41 – PCC: RB Size 1 Offset Max SCC: RB Size 1 Offset 0)**

|                                            |                                                                                                                                   |                            |                                 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019                                                                                              | EUT Type:<br>Tablet Device | Page 248 of 363                 |



| Power State | PCC      |                     |                  |                          |            |            |                  | SCC      |                     |                  |                          |            |            |                  | Power               |
|-------------|----------|---------------------|------------------|--------------------------|------------|------------|------------------|----------|---------------------|------------------|--------------------------|------------|------------|------------------|---------------------|
|             | PCC Band | PCC Bandwidth [MHz] | PCC (UL) Channel | PCC (UL) Frequency [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | SCC Band | SCC Bandwidth [MHz] | SCC (UL) Channel | SCC (UL) Frequency [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | ULCA Tx.Power (dBm) |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | QPSK       | 1          | 0                | LTE B41  | 20                  | 39948            | 2525.8                   | QPSK       | 1          | 0                | 20.11               |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | 16-QAM     | 1          | 0                | LTE B7   | 20                  | 39948            | 2525.8                   | 16-QAM     | 1          | 0                | 20.09               |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | 64-QAM     | 1          | 0                | LTE B7   | 20                  | 39948            | 2525.8                   | 64-QAM     | 1          | 0                | 20.16               |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | QPSK       | 1          | 99               | LTE B41  | 20                  | 39948            | 2525.8                   | QPSK       | 1          | 99               | 20.13               |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | QPSK       | 1          | 0                | LTE B41  | 20                  | 39948            | 2525.8                   | QPSK       | 1          | 99               | 16.13               |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | QPSK       | 1          | 50               | LTE B41  | 20                  | 39948            | 2525.8                   | QPSK       | 1          | 50               | 20.05               |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | QPSK       | 1          | 99               | LTE B41  | 20                  | 39948            | 2525.8                   | QPSK       | 1          | 0                | 24.66               |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | QPSK       | 100        | 0                | LTE B41  | 20                  | 39948            | 2525.8                   | QPSK       | 100        | 0                | 22.80               |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | 16-QAM     | 100        | 0                | LTE B41  | 20                  | 39948            | 2525.8                   | 16-QAM     | 100        | 0                | 21.81               |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | 64-QAM     | 100        | 0                | LTE B41  | 20                  | 39948            | 2525.8                   | 64-QAM     | 100        | 0                | 21.79               |

**Table 7-11. Conducted Powers (B41 with Various Combinations for 20MHz Channel Bandwidth)**

|                                                   |                                                                                                                                   |                                   |                                        |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------|
| <b>FCC ID:</b> BCGA2153                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                                   | <b>Approved by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>1C1811080028-03-R1.BCG | <b>Test Dates:</b><br>11/09/2018-02/06/2019                                                                                       | <b>EUT Type:</b><br>Tablet Device | Page 249 of 363                        |

## Port B

| Power State | PCC      |                        |                     |                                |            |               |                     | SCC      |                        |                     |                                |            |               |                     | Power<br>ULCA<br>Tx.Power<br>(dBm) |
|-------------|----------|------------------------|---------------------|--------------------------------|------------|---------------|---------------------|----------|------------------------|---------------------|--------------------------------|------------|---------------|---------------------|------------------------------------|
|             | PCC Band | PCC Bandwidth<br>[MHz] | PCC (UL)<br>Channel | PCC (UL)<br>Frequency<br>[MHz] | Modulation | PCC UL#<br>RB | PCC UL<br>RB Offset | SCC Band | SCC Bandwidth<br>[MHz] | SCC (UL)<br>Channel | SCC (UL)<br>Frequency<br>[MHz] | Modulation | PCC UL#<br>RB | PCC UL<br>RB Offset |                                    |
| Max         | LTE B7   | 10                     | 20800               | 2505                           | QPSK       | 1             | 49                  | LTE B7   | 20                     | 20944               | 2519.4                         | QPSK       | 1             | 0                   | 22.58                              |
| Max         | LTE B7   | 15                     | 20825               | 2507.5                         | QPSK       | 1             | 74                  | LTE B7   | 10                     | 20945               | 2519.5                         | QPSK       | 1             | 0                   | 22.56                              |
| Max         | LTE B7   | 15                     | 20825               | 2507.5                         | QPSK       | 1             | 74                  | LTE B7   | 15                     | 20975               | 2522.5                         | QPSK       | 1             | 0                   | 22.36                              |
| Max         | LTE B7   | 15                     | 20825               | 2507.5                         | QPSK       | 1             | 74                  | LTE B7   | 20                     | 20996               | 2524.6                         | QPSK       | 1             | 0                   | 22.75                              |
| Max         | LTE B7   | 20                     | 20850               | 2510                           | QPSK       | 1             | 99                  | LTE B7   | 10                     | 20994               | 2524.4                         | QPSK       | 1             | 0                   | 22.39                              |
| Max         | LTE B7   | 20                     | 20850               | 2510                           | QPSK       | 1             | 99                  | LTE B7   | 15                     | 21021               | 2527.1                         | QPSK       | 1             | 0                   | 22.44                              |
| Max         | LTE B7   | 20                     | 20850               | 2510                           | QPSK       | 1             | 99                  | LTE B7   | 20                     | 21048               | 2529.8                         | QPSK       | 1             | 0                   | 22.49                              |
| Max         | LTE B7   | 10                     | 21100               | 2535                           | QPSK       | 1             | 49                  | LTE B7   | 20                     | 21244               | 2549.4                         | QPSK       | 1             | 0                   | 22.50                              |
| Max         | LTE B7   | 15                     | 21100               | 2535                           | QPSK       | 1             | 74                  | LTE B7   | 10                     | 21220               | 2547                           | QPSK       | 1             | 0                   | 22.43                              |
| Max         | LTE B7   | 15                     | 21100               | 2535                           | QPSK       | 1             | 74                  | LTE B7   | 15                     | 21250               | 2550                           | QPSK       | 1             | 0                   | 22.42                              |
| Max         | LTE B7   | 15                     | 21100               | 2535                           | QPSK       | 1             | 74                  | LTE B7   | 20                     | 21271               | 2552.1                         | QPSK       | 1             | 0                   | 22.49                              |
| Max         | LTE B7   | 20                     | 21100               | 2535                           | QPSK       | 1             | 99                  | LTE B7   | 10                     | 21244               | 2549.4                         | QPSK       | 1             | 0                   | 22.45                              |
| Max         | LTE B7   | 20                     | 21100               | 2535                           | QPSK       | 1             | 99                  | LTE B7   | 15                     | 21271               | 2552.1                         | QPSK       | 1             | 0                   | 22.38                              |
| Max         | LTE B7   | 20                     | 21100               | 2535                           | QPSK       | 1             | 99                  | LTE B7   | 20                     | 21298               | 2554.8                         | QPSK       | 1             | 0                   | 22.54                              |
| Max         | LTE B7   | 10                     | 21400               | 2565                           | QPSK       | 1             | 0                   | LTE B7   | 20                     | 21256               | 2550.6                         | QPSK       | 1             | 99                  | 22.75                              |
| Max         | LTE B7   | 15                     | 21375               | 2562.5                         | QPSK       | 1             | 0                   | LTE B7   | 10                     | 21255               | 2550.5                         | QPSK       | 1             | 49                  | 22.32                              |
| Max         | LTE B7   | 15                     | 21375               | 2562.5                         | QPSK       | 1             | 0                   | LTE B7   | 15                     | 21225               | 2547.5                         | QPSK       | 1             | 74                  | 22.26                              |
| Max         | LTE B7   | 15                     | 21375               | 2562.5                         | QPSK       | 1             | 0                   | LTE B7   | 20                     | 21204               | 2545.4                         | QPSK       | 1             | 99                  | 22.36                              |
| Max         | LTE B7   | 20                     | 21350               | 2560                           | QPSK       | 1             | 0                   | LTE B7   | 10                     | 21206               | 2545.6                         | QPSK       | 1             | 49                  | 21.66                              |
| Max         | LTE B7   | 20                     | 21350               | 2560                           | QPSK       | 1             | 0                   | LTE B7   | 15                     | 21179               | 2542.9                         | QPSK       | 1             | 74                  | 22.38                              |
| Max         | LTE B7   | 20                     | 21350               | 2560                           | QPSK       | 1             | 0                   | LTE B7   | 20                     | 21152               | 2540.2                         | QPSK       | 1             | 99                  | 22.40                              |

**Table 7-12. Conducted Powers (B7 – PCC: RB Size 1 Offset Max SCC: RB Size 1 Offset 0)**

|                                            |                                                                                                                                   |                            |                                 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019                                                                                              | EUT Type:<br>Tablet Device | Page 250 of 363                 |

| Power State | PCC      |                     |                  |                          |            |            |                  | SCC      |                     |                  |                          |            |            |                  | Power               |
|-------------|----------|---------------------|------------------|--------------------------|------------|------------|------------------|----------|---------------------|------------------|--------------------------|------------|------------|------------------|---------------------|
|             | PCC Band | PCC Bandwidth [MHz] | PCC (UL) Channel | PCC (UL) Frequency [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | SCC Band | SCC Bandwidth [MHz] | SCC (UL) Channel | SCC (UL) Frequency [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | ULCA Tx.Power (dBm) |
| Max         | LTE B7   | 20                  | 20850            | 2510                     | QPSK       | 1          | 0                | LTE B7   | 20                  | 21048            | 2529.8                   | QPSK       | 1          | 0                | 18.21               |
| Max         | LTE B7   | 20                  | 20850            | 2510                     | 16-QAM     | 1          | 0                | LTE B7   | 20                  | 21048            | 2529.8                   | 16-QAM     | 1          | 0                | 18.45               |
| Max         | LTE B7   | 20                  | 20850            | 2510                     | 64-QAM     | 1          | 0                | LTE B7   | 20                  | 21048            | 2529.8                   | 64-QAM     | 1          | 0                | 18.57               |
| Max         | LTE B7   | 20                  | 20850            | 2510                     | QPSK       | 1          | 99               | LTE B7   | 20                  | 21048            | 2529.8                   | QPSK       | 1          | 99               | 17.86               |
| Max         | LTE B7   | 20                  | 20850            | 2510                     | QPSK       | 1          | 0                | LTE B7   | 20                  | 21048            | 2529.8                   | QPSK       | 1          | 99               | 13.88               |
| Max         | LTE B7   | 20                  | 20850            | 2510                     | QPSK       | 1          | 50               | LTE B7   | 20                  | 21048            | 2529.8                   | QPSK       | 1          | 50               | 18.06               |
| Max         | LTE B7   | 20                  | 20850            | 2510                     | QPSK       | 1          | 99               | LTE B7   | 20                  | 21048            | 2529.8                   | QPSK       | 1          | 0                | 22.62               |
| Max         | LTE B7   | 20                  | 20850            | 2510                     | QPSK       | 100        | 0                | LTE B7   | 20                  | 21048            | 2529.8                   | QPSK       | 100        | 0                | 20.68               |
| Max         | LTE B7   | 20                  | 20850            | 2510                     | 16-QAM     | 100        | 0                | LTE B7   | 20                  | 21048            | 2529.8                   | 16-QAM     | 100        | 0                | 19.72               |
| Max         | LTE B7   | 20                  | 20850            | 2510                     | 64-QAM     | 100        | 0                | LTE B7   | 20                  | 21048            | 2529.8                   | 64-QAM     | 100        | 0                | 19.66               |

**Table 7-13. Conducted Powers (B7 with Various Combinations for 20MHz Channel Bandwidth)**

|                                                   |                                                                                                                               |                                   |                                        |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------|
| <b>FCC ID:</b> BCGA2153                           |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                                   | <b>Approved by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>1C1811080028-03-R1.BCG | <b>Test Dates:</b><br>11/09/2018-02/06/2019                                                                                   | <b>EUT Type:</b><br>Tablet Device | Page 251 of 363                        |

| Power State | PCC      |                     |                  |                          |            |            |                  | SCC      |                     |                  |                          |            |            |                  | Power               |
|-------------|----------|---------------------|------------------|--------------------------|------------|------------|------------------|----------|---------------------|------------------|--------------------------|------------|------------|------------------|---------------------|
|             | PCC Band | PCC Bandwidth [MHz] | PCC (UL) Channel | PCC (UL) Frequency [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | SCC Band | SCC Bandwidth [MHz] | SCC (UL) Channel | SCC (UL) Frequency [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | ULCA Tx.Power (dBm) |
| Max         | LTE B41  | 5                   | 39675            | 2498.5                   | QPSK       | 1          | 24               | LTE B41  | 20                  | 39792            | 2510.2                   | QPSK       | 1          | 0                | 22.45               |
| Max         | LTE B41  | 10                  | 39700            | 2501                     | QPSK       | 1          | 49               | LTE B41  | 15                  | 39820            | 2513                     | QPSK       | 1          | 0                | 22.42               |
| Max         | LTE B41  | 10                  | 39700            | 2501                     | QPSK       | 1          | 49               | LTE B41  | 20                  | 39844            | 2515.4                   | QPSK       | 1          | 0                | 22.52               |
| Max         | LTE B41  | 15                  | 39725            | 2503.5                   | QPSK       | 1          | 74               | LTE B41  | 10                  | 39845            | 2515.5                   | QPSK       | 1          | 0                | 22.16               |
| Max         | LTE B41  | 15                  | 39725            | 2503.5                   | QPSK       | 1          | 74               | LTE B41  | 15                  | 39875            | 2518.5                   | QPSK       | 1          | 0                | 22.30               |
| Max         | LTE B41  | 15                  | 39725            | 2503.5                   | QPSK       | 1          | 74               | LTE B41  | 20                  | 39896            | 2520.6                   | QPSK       | 1          | 0                | 22.42               |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | QPSK       | 1          | 99               | LTE B41  | 5                   | 39867            | 2517.7                   | QPSK       | 1          | 0                | 22.26               |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | QPSK       | 1          | 99               | LTE B41  | 10                  | 39894            | 2520.4                   | QPSK       | 1          | 0                | 22.25               |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | QPSK       | 1          | 99               | LTE B41  | 15                  | 39921            | 2523.1                   | QPSK       | 1          | 0                | 22.27               |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | QPSK       | 1          | 99               | LTE B41  | 20                  | 39948            | 2525.8                   | QPSK       | 1          | 0                | 22.45               |
| Max         | LTE B41  | 5                   | 40620            | 2593                     | QPSK       | 1          | 24               | LTE B41  | 20                  | 40737            | 2604.7                   | QPSK       | 1          | 0                | 22.31               |
| Max         | LTE B41  | 10                  | 40620            | 2593                     | QPSK       | 1          | 49               | LTE B41  | 15                  | 40740            | 2605                     | QPSK       | 1          | 0                | 22.39               |
| Max         | LTE B41  | 10                  | 40620            | 2593                     | QPSK       | 1          | 49               | LTE B41  | 20                  | 40764            | 2607.4                   | QPSK       | 1          | 0                | 22.40               |
| Max         | LTE B41  | 15                  | 40620            | 2593                     | QPSK       | 1          | 74               | LTE B41  | 10                  | 40740            | 2605                     | QPSK       | 1          | 0                | 22.43               |
| Max         | LTE B41  | 15                  | 40620            | 2593                     | QPSK       | 1          | 74               | LTE B41  | 15                  | 40770            | 2608                     | QPSK       | 1          | 0                | 22.44               |
| Max         | LTE B41  | 15                  | 40620            | 2593                     | QPSK       | 1          | 74               | LTE B41  | 20                  | 40791            | 2610.1                   | QPSK       | 1          | 0                | 22.45               |
| Max         | LTE B41  | 20                  | 40620            | 2593                     | QPSK       | 1          | 99               | LTE B41  | 5                   | 40737            | 2604.7                   | QPSK       | 1          | 0                | 22.22               |
| Max         | LTE B41  | 20                  | 40620            | 2593                     | QPSK       | 1          | 99               | LTE B41  | 10                  | 40764            | 2607.4                   | QPSK       | 1          | 0                | 22.25               |
| Max         | LTE B41  | 20                  | 40620            | 2593                     | QPSK       | 1          | 99               | LTE B41  | 15                  | 40791            | 2610.1                   | QPSK       | 1          | 0                | 22.31               |
| Max         | LTE B41  | 20                  | 40620            | 2593                     | QPSK       | 1          | 99               | LTE B41  | 20                  | 40818            | 2612.8                   | QPSK       | 1          | 0                | 22.44               |
| Max         | LTE B41  | 5                   | 41565            | 2687.5                   | QPSK       | 1          | 0                | LTE B41  | 20                  | 41448            | 2675.8                   | QPSK       | 1          | 99               | 22.42               |
| Max         | LTE B41  | 10                  | 41540            | 2685                     | QPSK       | 1          | 0                | LTE B41  | 15                  | 41420            | 2673                     | QPSK       | 1          | 74               | 22.41               |
| Max         | LTE B41  | 10                  | 41540            | 2685                     | QPSK       | 1          | 0                | LTE B41  | 20                  | 41396            | 2670.6                   | QPSK       | 1          | 99               | 22.37               |
| Max         | LTE B41  | 15                  | 41515            | 2682.5                   | QPSK       | 1          | 0                | LTE B41  | 10                  | 41395            | 2670.5                   | QPSK       | 1          | 49               | 22.42               |
| Max         | LTE B41  | 15                  | 41515            | 2682.5                   | QPSK       | 1          | 0                | LTE B41  | 15                  | 41365            | 2667.5                   | QPSK       | 1          | 74               | 22.35               |
| Max         | LTE B41  | 15                  | 41515            | 2682.5                   | QPSK       | 1          | 0                | LTE B41  | 20                  | 41344            | 2665.4                   | QPSK       | 1          | 99               | 22.34               |
| Max         | LTE B41  | 20                  | 41490            | 2680                     | QPSK       | 1          | 0                | LTE B41  | 5                   | 41373            | 2668.3                   | QPSK       | 1          | 24               | 22.25               |
| Max         | LTE B41  | 20                  | 41490            | 2680                     | QPSK       | 1          | 0                | LTE B41  | 10                  | 41346            | 2665.6                   | QPSK       | 1          | 49               | 22.45               |
| Max         | LTE B41  | 20                  | 41490            | 2680                     | QPSK       | 1          | 0                | LTE B41  | 15                  | 41319            | 2662.9                   | QPSK       | 1          | 74               | 22.48               |
| Max         | LTE B41  | 20                  | 41490            | 2680                     | QPSK       | 1          | 0                | LTE B41  | 20                  | 41292            | 2660.2                   | QPSK       | 1          | 99               | 22.47               |

**Table 7-14. Conducted Powers (B41 – PCC: RB Size 1 Offset Max SCC: RB Size 1 Offset 0)**

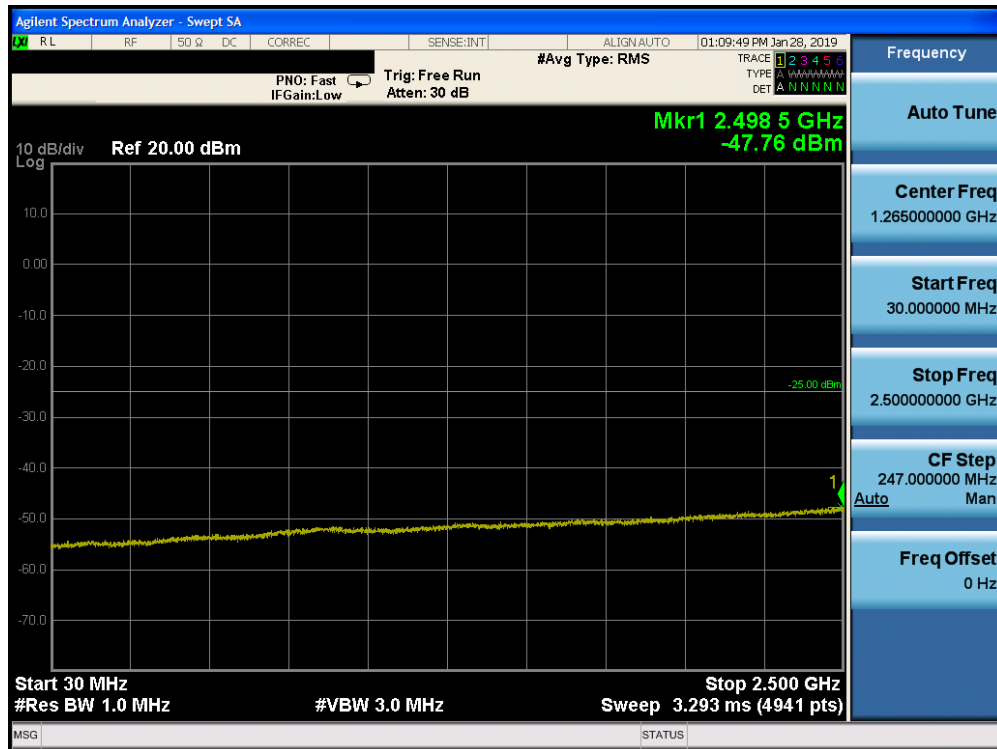
|                                            |                                                                                                                                   |                            |                                 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019                                                                                              | EUT Type:<br>Tablet Device | Page 252 of 363                 |

| Power State | PCC      |                     |                  |                          |            |            |                  | SCC      |                     |                  |                          |            |            |                  | Power               |
|-------------|----------|---------------------|------------------|--------------------------|------------|------------|------------------|----------|---------------------|------------------|--------------------------|------------|------------|------------------|---------------------|
|             | PCC Band | PCC Bandwidth [MHz] | PCC (UL) Channel | PCC (UL) Frequency [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | SCC Band | SCC Bandwidth [MHz] | SCC (UL) Channel | SCC (UL) Frequency [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | ULCA Tx.Power (dBm) |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | QPSK       | 1          | 0                | LTE B41  | 20                  | 39948            | 2525.8                   | QPSK       | 1          | 0                | 17.78               |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | 16-QAM     | 1          | 0                | LTE B41  | 20                  | 39948            | 2525.8                   | 16-QAM     | 1          | 0                | 17.93               |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | 64-QAM     | 1          | 0                | LTE B41  | 20                  | 39948            | 2525.8                   | 64QAM      | 1          | 0                | 17.79               |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | QPSK       | 1          | 99               | LTE B41  | 20                  | 39948            | 2525.8                   | QPSK       | 1          | 99               | 17.96               |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | QPSK       | 1          | 0                | LTE B41  | 20                  | 39948            | 2525.8                   | QPSK       | 1          | 99               | 13.97               |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | QPSK       | 1          | 50               | LTE B41  | 20                  | 39948            | 2525.8                   | QPSK       | 1          | 50               | 17.62               |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | QPSK       | 1          | 99               | LTE B41  | 20                  | 39948            | 2525.8                   | QPSK       | 1          | 0                | 22.47               |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | QPSK       | 100        | 0                | LTE B41  | 20                  | 39948            | 2525.8                   | QPSK       | 100        | 0                | 20.64               |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | 16-QAM     | 100        | 0                | LTE B41  | 20                  | 39948            | 2525.8                   | 16-QAM     | 100        | 0                | 19.62               |
| Max         | LTE B41  | 20                  | 39750            | 2506                     | 64-QAM     | 100        | 0                | LTE B41  | 20                  | 39948            | 2525.8                   | 64-QAM     | 100        | 0                | 19.61               |

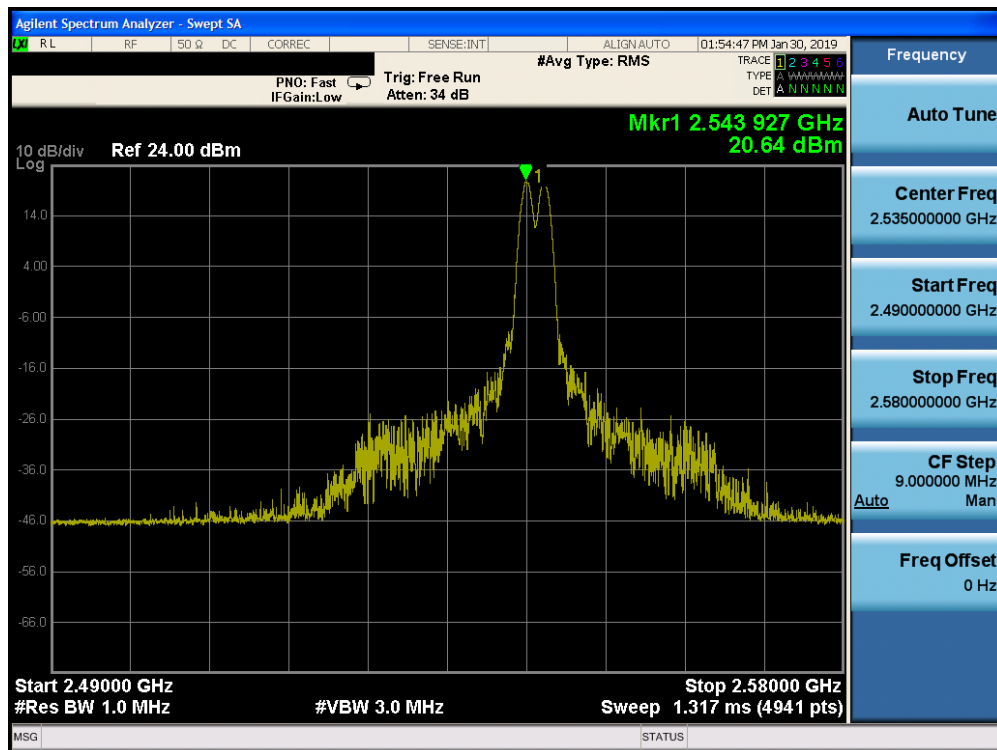
**Table 7-15. Conducted Powers (B41 with Various Combinations for 20MHz Channel Bandwidth)**

|                                                   |                                                                                                                                   |                                   |                                        |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------|
| <b>FCC ID:</b> BCGA2153                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                                   | <b>Approved by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>1C1811080028-03-R1.BCG | <b>Test Dates:</b><br>11/09/2018-02/06/2019                                                                                       | <b>EUT Type:</b><br>Tablet Device | Page 253 of 363                        |

## Band 7



Plot 7-414. Conducted Spurious Plot (Band 7 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)



Plot 7-415. Conducted Spurious Plot (Band 7 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)

|                                            |                                              |                            |                                 |
|--------------------------------------------|----------------------------------------------|----------------------------|---------------------------------|
| FCC ID: BCGA2153                           | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1811080028-03-R1.BCG | Test Dates:<br>11/09/2018-02/06/2019         | EUT Type:<br>Tablet Device | Page 254 of 363                 |