## FPCTEST



Plot 7-328. Upper Band Edge Plot (Band 25 - 20.0MHz QPSK - RB Size 100)


Plot 7-329. Upper Extended Band Edge Plot (Band 25 - 20.0MHz QPSK - RB Size 100)

| FCC ID: BCGA2069 | 局 PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: <br> Quality Manager |
| :---: | :---: | :---: | :---: |
| Test Report S/N: <br> 1C1912170054-03.BCG | Test Dates: 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 194 of 423 |

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## 保 PCTEST

Band 30


Plot 7-330. Lower Band Edge Plot (Band 30-5.0MHz QPSK - RB Size 25)


Plot 7-331. Lower Extended Band Edge Plot (Band 30 - 5.0MHz QPSK - RB Size 25)

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| :---: | :---: | :---: | :---: |
| Test Report S/N: 1C1912170054-03.BCG | Test Dates: 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 195 of 423 |

## FPCTEST



Plot 7-332. Upper Band Edge Plot (Band 30-5.0MHz QPSK - RB Size 25)


Plot 7-333. Upper Extended Band Edge Plot (Band 30 - 5.0MHz QPSK - RB Size 25)

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| :---: | :---: | :---: | :---: |
| Test Report S/N: <br> 1C1912170054-03.BCG | Test Dates: <br> 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 196 of 423 |

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## FPCTEST



Plot 7-334. Lower Band Edge Plot (Band 30 - 10.0MHz QPSK - RB Size 50)


Plot 7-335. Lower Extended Band Edge Plot (Band 30-10.0MHz QPSK - RB Size 50)

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| :---: | :---: | :---: | :---: |
| Test Report S/N: <br> 1C1912170054-03.BCG | Test Dates: 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 197 of 423 |

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## FPCTEST



Plot 7-336. Upper Band Edge Plot (Band 30 - 10.0MHz QPSK - RB Size 50)


Plot 7-337. Upper Extended Band Edge Plot (Band 30-10.0MHz QPSK - RB Size 50)

| FCC ID: BCGA2069 | 「F PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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| Test Report S/N: <br> 1C1912170054-03.BCG | Test Dates: 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 198 of 423 |

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Band 7


Plot 7-338. Lower ACP Plot (Band 7 - 5.0MHz QPSK - RB Size 25)


Plot 7-339. Upper ACP Plot (Band 7-5.0MHz QPSK - RB Size 25)

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| Test Report S/N: <br> 1C1912170054-03.BCG | Test Dates: 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 199 of 423 |

## FPCTEST



Plot 7-340. Lower ACP Plot (Band 7 - 10.0MHz QPSK - RB Size 50)


Plot 7-341. Upper ACP Plot (Band 7 - 10.0MHz QPSK - RB Size 50)

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| Test Report S/N: 1C1912170054-03.BCG | Test Dates: 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 200 of 423 |

## FPCTEST



Plot 7-342. Lower ACP Plot (Band 7 - 15.0MHz QPSK - RB Size 75)


Plot 7-343. Upper ACP Plot (Band 7 - 15.0MHz QPSK - RB Size 75)

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| Test Report S/N: <br> 1C1912170054-03.BCG | Test Dates: <br> 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 201 of 423 |

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## FPCTEST



Plot 7-344. Lower ACP Plot (Band 7 - 20.0MHz QPSK - RB Size 100)


Plot 7-345. Upper ACP Plot (Band 7 - 20.0MHz QPSK - RB Size 100)

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| Test Report S/N: 1C1912170054-03.BCG | Test Dates: <br> 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 202 of 423 |

## FPCTEST

Band 41


Plot 7-346. Lower ACP Plot (Band 41 - 5.0MHz QPSK - RB Size 25)


Plot 7-347. Upper ACP Plot (Band 41 - 5.0MHz QPSK - RB Size 25)

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| Test Report S/N: <br> 1C1912170054-03.BCG | Test Dates: 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 203 of 423 |

## FPCTEST



Plot 7-348. Lower ACP Plot (Band 41 - 10.0MHz QPSK - RB Size 50)


Plot 7-349. Upper ACP Plot (Band 41 - 10.0MHz QPSK - RB Size 50)

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## FPCTEST



Plot 7-350. Lower ACP Plot (Band 41 - 15.0MHz QPSK - RB Size 75)


Plot 7-351. Upper ACP Plot (Band 41 - 15.0MHz QPSK - RB Size 75)

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| Test Report S/N: <br> 1C1912170054-03.BCG | Test Dates: 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 205 of 423 |

## FPCTEST



Plot 7-352. Lower ACP Plot (Band 41 - 20.0MHz QPSK - RB Size 100)


Plot 7-353. Upper ACP Plot (Band 41 - 20.0MHz QPSK - RB Size 100)

| FCC ID: BCGA2069 | 柈 PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: <br> Quality Manager |
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| Test Report S/N: <br> 1C1912170054-03.BCG | Test Dates: <br> 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 206 of 423 |

## FPCTEST

### 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 1 ms . 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

1. All ports were tested and only the worst case data were reported.
2. Refer to Table 2-1 Section 2.3 of this test report for correlation between Antennas and Ports.

| FCC ID: BCGA2069 | 柈 PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: <br> Quality Manager |
| :---: | :---: | :---: | :---: |
| Test Report S/N: 1C1912170054-03.BCG | Test Dates: <br> 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 207 of 423 |


| Mode | BW (MHz) | Modulation | Average Power [dBm] | $\begin{gathered} \text { PAR at } \\ 0.1 \%[\mathrm{~dB}] \end{gathered}$ | Limit [dB] | Margin [dB] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LTE Band 4 | 1.4 | QPSK | 24.65 | 5.49 | 13 | -7.51 |
| LTE Band 4 | 1.4 | 16QAM | 23.74 | 6.20 | 13 | -6.8 |
| LTE Band 4 | 1.4 | 64QAM | 22.72 | 6.53 | 13 | -6.47 |
| LTE Band 4 | 3 | QPSK | 24.66 | 5.66 | 13 | -7.34 |
| LTE Band 4 | 3 | 16QAM | 23.70 | 6.34 | 13 | -6.66 |
| LTE Band 4 | 3 | 64QAM | 22.68 | 6.54 | 13 | -6.46 |
| LTE Band 4 | 5 | QPSK | 24.68 | 5.62 | 13 | -7.38 |
| LTE Band 4 | 5 | 16QAM | 23.71 | 6.28 | 13 | -6.72 |
| LTE Band 4 | 5 | 64QAM | 22.70 | 6.51 | 13 | -6.49 |
| LTE Band 4 | 10 | QPSK | 24.70 | 5.54 | 13 | -7.46 |
| LTE Band 4 | 10 | 16QAM | 23.73 | 6.22 | 13 | -6.78 |
| LTE Band 4 | 10 | 64QAM | 22.71 | 6.53 | 13 | -6.47 |
| LTE Band 4 | 15 | QPSK | 24.77 | 5.48 | 13 | -7.52 |
| LTE Band 4 | 15 | 16QAM | 23.80 | 6.10 | 13 | -6.9 |
| LTE Band 4 | 15 | 64QAM | 22.82 | 6.41 | 13 | -6.59 |
| LTE Band 4 | 20 | QPSK | 24.77 | 5.48 | 13 | -7.52 |
| LTE Band 4 | 20 | 16QAM | 23.79 | 6.07 | 13 | -6.93 |
| LTE Band 4 | 20 | 64QAM | 22.80 | 6.44 | 13 | -6.56 |
| LTE Band 66 | 1.4 | QPSK | 24.72 | 5.22 | 13 | -7.78 |
| LTE Band 66 | 1.4 | 16QAM | 23.81 | 5.94 | 13 | -7.06 |
| LTE Band 66 | 1.4 | 64QAM | 22.81 | 6.39 | 13 | -6.61 |
| LTE Band 66 | 3 | QPSK | 24.69 | 5.49 | 13 | -7.51 |
| LTE Band 66 | 3 | 16QAM | 23.76 | 6.14 | 13 | -6.86 |
| LTE Band 66 | 3 | 64QAM | 22.77 | 6.45 | 13 | -6.55 |
| LTE Band 66 | 5 | QPSK | 24.76 | 5.42 | 13 | -7.58 |
| LTE Band 66 | 5 | 16QAM | 23.80 | 6.09 | 13 | -6.91 |
| LTE Band 66 | 5 | 64QAM | 22.81 | 6.42 | 13 | -6.58 |
| LTE Band 66 | 10 | QPSK | 24.77 | 5.34 | 13 | -7.66 |
| LTE Band 66 | 10 | 16QAM | 23.81 | 6.04 | 13 | -6.96 |
| LTE Band 66 | 10 | 64QAM | 22.81 | 6.41 | 13 | -6.59 |
| LTE Band 66 | 15 | QPSK | 24.83 | 5.24 | 13 | -7.76 |
| LTE Band 66 | 15 | 16QAM | 23.87 | 5.89 | 13 | -7.11 |
| LTE Band 66 | 15 | 64QAM | 22.88 | 6.31 | 13 | -6.69 |
| LTE Band 66 | 20 | QPSK | 24.87 | 5.13 | 13 | -7.87 |
| LTE Band 66 | 20 | 16QAM | 23.87 | 5.92 | 13 | -7.08 |
| LTE Band 66 | 20 | 64QAM | 22.87 | 6.34 | 13 | -6.66 |
| LTE Band 2 | 1.4 | QPSK | 24.56 | 5.71 | 13 | -7.29 |
| LTE Band 2 | 1.4 | 16QAM | 23.69 | 6.40 | 13 | -6.6 |
| LTE Band 2 | 1.4 | 64QAM | 22.64 | 6.43 | 13 | -6.57 |
| LTE Band 2 | 3 | QPSK | 24.58 | 5.77 | 13 | -7.23 |
| LTE Band 2 | 3 | 16QAM | 23.65 | 6.45 | 13 | -6.55 |
| LTE Band 2 | 3 | 64QAM | 22.62 | 6.48 | 13 | -6.52 |
| LTE Band 2 | 5 | QPSK | 24.58 | 5.75 | 13 | -7.25 |
| LTE Band 2 | 5 | 16QAM | 23.65 | 6.36 | 13 | -6.64 |
| LTE Band 2 | 5 | 64QAM | 22.64 | 6.45 | 13 | -6.55 |
| LTE Band 2 | 10 | QPSK | 24.62 | 5.67 | 13 | -7.33 |
| LTE Band 2 | 10 | 16QAM | 23.64 | 6.35 | 13 | -6.65 |
| LTE Band 2 | 10 | 64QAM | 22.67 | 6.52 | 13 | -6.48 |
| LTE Band 2 | 15 | QPSK | 24.63 | 5.77 | 13 | -7.23 |
| LTE Band 2 | 15 | 16QAM | 23.65 | 6.28 | 13 | -6.72 |
| LTE Band 2 | 15 | 64QAM | 22.68 | 6.42 | 13 | -6.58 |
| LTE Band 2 | 20 | QPSK | 24.62 | 5.52 | 13 | -7.48 |
| LTE Band 2 | 20 | 16QAM | 23.63 | 6.24 | 13 | -6.76 |
| LTE Band 2 | 20 | 64QAM | 22.66 | 6.38 | 13 | -6.62 |
| LTE Band 25 | 1.4 | QPSK | 24.60 | 5.62 | 13 | -7.38 |
| LTE Band 25 | 1.4 | 16QAM | 23.69 | 6.40 | 13 | -6.6 |
| LTE Band 25 | 1.4 | 64QAM | 22.64 | 6.43 | 13 | -6.57 |
| LTE Band 25 | 3 | QPSK | 24.61 | 5.76 | 13 | -7.24 |
| LTE Band 25 | 3 | 16QAM | 23.66 | 6.33 | 13 | -6.67 |
| LTE Band 25 | 3 | 64QAM | 22.64 | 6.49 | 13 | -6.51 |
| LTE Band 25 | 5 | QPSK | 24.60 | 5.73 | 13 | -7.27 |
| LTE Band 25 | 5 | 16QAM | 23.68 | 6.32 | 13 | -6.68 |
| LTE Band 25 | 5 | 64QAM | 22.70 | 6.47 | 13 | -6.53 |
| LTE Band 25 | 10 | QPSK | 24.67 | 5.63 | 13 | -7.37 |
| LTE Band 25 | 10 | 16QAM | 23.72 | 6.37 | 13 | -6.63 |
| LTE Band 25 | 10 | 64QAM | 22.71 | 6.54 | 13 | -6.46 |
| LTE Band 25 | 15 | QPSK | 24.61 | 5.80 | 13 | -7.2 |
| LTE Band 25 | 15 | 16QAM | 23.66 | 6.30 | 13 | -6.7 |
| LTE Band 25 | 15 | 64QAM | 22.66 | 6.50 | 13 | -6.5 |
| LTE Band 25 | 20 | QPSK | 24.64 | 5.56 | 13 | -7.44 |
| LTE Band 25 | 20 | 16QAM | 23.67 | 6.27 | 13 | -6.73 |
| LTE Band 25 | 20 | 64QAM | 22.68 | 6.45 | 13 | -6.55 |

Table 7-6. PAR Results

| FCC ID: BCGA2069 | 厌 PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: <br> Quality Manager |
| :---: | :---: | :---: | :---: |
| Test Report S/N: <br> 1C1912170054-03.BCG | Test Dates: 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 208 of 423 |

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## F)PCTEST

Band 4


Plot 7-354. PAR Plot (Band 4 - 1.4MHz QPSK - RB Size 6)


Plot 7-355. PAR Plot (Band 4 - 1.4MHz 16-QAM - RB Size 6)

| FCC ID: BCGA2069 | ref PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: <br> Quality Manager |
| :---: | :---: | :---: | :---: |
| Test Report S/N: 1C1912170054-03.BCG | Test Dates: 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 209 of 423 |

## fr|PCTEST



Plot 7-356. PAR Plot (Band 4 - 1.4MHz 64-QAM - RB Size 6)


Plot 7-357. PAR Plot (Band 4 - 3.0MHz QPSK - RB Size 15)

| FCC ID: BCGA2069 | 局 PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: <br> Quality Manager |
| :---: | :---: | :---: | :---: |
| Test Report S/N: <br> 1C1912170054-03.BCG | $\begin{aligned} & \text { Test Dates: } \\ & \text { 12/10/2019-02/24/2020 } \end{aligned}$ | EUT Type: <br> Tablet Device | Page 210 of 423 |

## FPCTEST



Plot 7-358. PAR Plot (Band 4 - 3.0MHz 16-QAM - RB Size 15)


Plot 7-359. PAR Plot (Band 4 - 3.0MHz 64-QAM - RB Size 15)

| FCC ID: BCGA2069 | 梨 PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: <br> Quality Manager |
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## f PCTEST



Plot 7-360. PAR Plot (Band 4 - 5.0MHz QPSK - RB Size 25)


Plot 7-361. PAR Plot (Band 4 - 5.0MHz 16-QAM - RB Size 25)

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## f(FPTEST



Plot 7-362. PAR Plot (Band 4 - 5.0MHz 64-QAM - RB Size 25)


Plot 7-363. PAR Plot (Band 4 - 10.0MHz QPSK - RB Size 50)

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| Test Report S/N: <br> 1C1912170054-03.BCG | Test Dates: <br> 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 213 of 423 |

## f PCTEST



Plot 7-364. PAR Plot (Band 4 - 10.0MHz 16-QAM - RB Size 50)


Plot 7-365. PAR Plot (Band 4 - 10.0MHz 64-QAM - RB Size 50)

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| Test Report S/N: 1C1912170054-03.BCG | Test Dates: <br> 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 214 of 423 |

## fr|PCTEST



Plot 7-366. PAR Plot (Band 4 - 15.0MHz QPSK - RB Size 75)


Plot 7-367. PAR Plot (Band 4 - 15.0MHz 16-QAM - RB Size 75)

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## f(FCTEST



Plot 7-368. PAR Plot (Band 4 - 15.0MHz 64-QAM - RB Size 75)


Plot 7-369. PAR Plot (Band 4 - 20.0MHz QPSK - RB Size 100)

| FCC ID: BCGA2069 | ref PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: <br> Quality Manager |
| :---: | :---: | :---: | :---: |
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## fr|PCTEST



Plot 7-370. PAR Plot (Band 4 - 20.0MHz 16QAM - RB Size 100)


Plot 7-371. PAR Plot (Band 4 - 20.0MHz 64QAM - RB Size 100)

| FCC ID: BCGA2069 | 柈 PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: <br> Quality Manager |
| :---: | :---: | :---: | :---: |
| Test Report S/N: <br> 1C1912170054-03.BCG | Test Dates: 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 217 of 423 |

## FPCTEST

Band 66


Plot 7-372. PAR Plot (Band 66 - 1.4MHz QPSK - RB Size 6)


Plot 7-373. PAR Plot (Band 66 - 1.4MHz 16-QAM - RB Size 6)

| FCC ID: BCGA2069 | ref PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| :---: | :---: | :---: | :---: |
| Test Report S/N: <br> 1C1912170054-03.BCG | $\begin{aligned} & \text { Test Dates: } \\ & 12 / 10 / 2019-02 / 24 / 2020 \end{aligned}$ | EUT Type: <br> Tablet Device | Page 218 of 423 |

## FPCTEST



Plot 7-374. PAR Plot (Band 66 - 1.4MHz 64-QAM - RB Size 6)


Plot 7-375. PAR Plot (Band 66 - 3.0MHz QPSK - RB Size 15)

| FCC ID: BCGA2069 | 柈 PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| :---: | :---: | :---: | :---: |
| Test Report S/N: <br> 1C1912170054-03.BCG | Test Dates: 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 219 of 423 |

## f(FCTEST



Plot 7-376. PAR Plot (Band 66 - 3.0MHz 16-QAM - RB Size 15)


Plot 7-377. PAR Plot (Band 66 - 3.0MHz 64-QAM - RB Size 15)

| FCC ID: BCGA2069 | ref PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: <br> Quality Manager |
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| Test Report S/N: <br> 1C1912170054-03.BCG | Test Dates: <br> 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 220 of 423 |

## fr|PCTEST



Plot 7-378. PAR Plot (Band 66 - 5.0MHz QPSK - RB Size 25)


Plot 7-379. PAR Plot (Band 66 - 5.0MHz 16-QAM - RB Size 25)

| FCC ID: BCGA2069 | 梨 PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: <br> Quality Manager |
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## fr|PCTEST



Plot 7-380. PAR Plot (Band 66 - 5.0MHz 64-QAM - RB Size 25)


Plot 7-381. PAR Plot (Band 66 - 10.0MHz QPSK - RB Size 50)

| FCC ID: BCGA2069 | 梨 PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: <br> Quality Manager |
| :---: | :---: | :---: | :---: |
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## FPCTEST



Plot 7-382. PAR Plot (Band 66 - 10.0MHz 16-QAM - RB Size 50)


Plot 7-383. PAR Plot (Band 66 - 10.0MHz 64-QAM - RB Size 50)

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## f PCTEST



Plot 7-384. PAR Plot (Band 66 - 15.0MHz QPSK - RB Size 75)


Plot 7-385. PAR Plot (Band 66 - 15.0MHz 16-QAM - RB Size 75)

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## f PCTEST



Plot 7-386. PAR Plot (Band 66 - 15.0MHz 64-QAM - RB Size 75)


Plot 7-387. PAR Plot (Band 66 - 20.0MHz QPSK - RB Size 100)

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## f PCTEST



Plot 7-388. PAR Plot (Band 66 - 20.0MHz 16-QAM - RB Size 75)


Plot 7-389. PAR Plot (Band 66 - 20.0MHz 64-QAM - RB Size 75)

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## FPCTEST

Band 2


Plot 7-390. PAR Plot (Band 2 - 1.4MHz QPSK - RB Size 6)


Plot 7-391. PAR Plot (Band 2 - 1.4MHz 16-QAM - RB Size 6)

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| Test Report S/N: <br> 1C1912170054-03.BCG | $\begin{aligned} & \text { Test Dates: } \\ & \text { 12/10/2019-02/24/2020 } \end{aligned}$ | EUT Type: <br> Tablet Device | Page 227 of 423 |

## fr|PCTEST



Plot 7-392. PAR Plot (Band 2 - 1.4MHz 64-QAM - RB Size 6)


Plot 7-393. PAR Plot (Band 2 - 3.0MHz QPSK - RB Size 15)

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## FPCTEST



Plot 7-394. PAR Plot (Band 2 - 3.0MHz 16-QAM - RB Size 15)


Plot 7-395. PAR Plot (Band 2 - 3.0MHz 64-QAM - RB Size 15)

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## f(FCTEST



Plot 7-396. PAR Plot (Band 2 - 5.0MHz QPSK - RB Size 25)


Plot 7-397. PAR Plot (Band 2 - 5.0MHz 16-QAM - RB Size 25)

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## fr|PCTEST



Plot 7-398. PAR Plot (Band 2 - 5.0MHz 64-QAM - RB Size 25)


Plot 7-399. PAR Plot (Band 2 - 10.0MHz QPSK - RB Size 50)

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## f(FCTEST



Plot 7-400. PAR Plot (Band 2 - 10.0MHz 16-QAM - RB Size 50)


Plot 7-401. PAR Plot (Band 2 - 10.0MHz 64-QAM - RB Size 50)

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## FPCTEST



Plot 7-402. PAR Plot (Band 2 - 15.0MHz QPSK - RB Size 75)


Plot 7-403. PAR Plot (Band 2 - 15.0MHz 16-QAM - RB Size 75)

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## f PCTEST



Plot 7-404. PAR Plot (Band 2 - 15.0MHz 64-QAM - RB Size 75)


Plot 7-405. PAR Plot (Band 2 - 20.0MHz QPSK - RB Size 100)

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## FPCTEST



Plot 7-406. PAR Plot (Band 2 - 20.0MHz 16-QAM - RB Size 100)


Plot 7-407. PAR Plot (Band 2 - 20.0MHz 64-QAM - RB Size 100)

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## F)PCTEST

Band 25


Plot 7-408. PAR Plot (Band 25 - 1.4MHz QPSK - RB Size 6)


Plot 7-409. PAR Plot (Band 25 - 1.4MHz 16-QAM - RB Size 6)

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## fr|PCTEST



Plot 7-410. PAR Plot (Band 25 - 1.4MHz 64-QAM - RB Size 6)


Plot 7-411. PAR Plot (Band 25 - 3.0MHz QPSK - RB Size 15)

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## FPCTEST



Plot 7-412. PAR Plot (Band 25 - 3.0MHz 16-QAM - RB Size 15)


Plot 7-413. PAR Plot (Band 25 - 3.0MHz 64-QAM - RB Size 15)

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## f(FPTEST



Plot 7-414. PAR Plot (Band 25 - 5.0MHz QPSK - RB Size 25)


Plot 7-415. PAR Plot (Band 25 - 5.0MHz 16-QAM - RB Size 25)

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## fr|PCTEST



Plot 7-416. PAR Plot (Band 25 - 5.0MHz 64-QAM - RB Size 25)


Plot 7-417. PAR Plot (Band 25 - 10.0MHz QPSK - RB Size 50)

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Plot 7-418. PAR Plot (Band 25 - 10.0MHz 16-QAM - RB Size 50)


Plot 7-419. PAR Plot (Band 25 - 10.0MHz 64-QAM - RB Size 50)

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Plot 7-420. PAR Plot (Band 25 - 15.0MHz QPSK - RB Size 75)


Plot 7-421. PAR Plot (Band 25 - 15.0MHz 16-QAM - RB Size 75)

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Plot 7-422. PAR Plot (Band 25 - 15.0MHz 64-QAM - RB Size 75)


Plot 7-423. PAR Plot (Band 25 - 20.0MHz QPSK - RB Size 100)

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## FPCTEST



Plot 7-424. PAR Plot (Band 25 - 20.0MHz 16-QAM - RB Size 100)


Plot 7-425. PAR Plot (Band 25 - 20.0MHz 64-QAM - RB Size 100)

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## PCTEST

### 7.6 Additional Maximum Power Reduction (A-MPR) <br> $\$ 2.1046$

## 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.

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Table 7-7. A-MPR Conducted Power Measurements

| FCC ID: BCGA2069 | rrf PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: <br> Quality Manager |
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## TAPCTEST

### 7.7 Uplink Carrier Aggregation <br> \$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 $10^{\text {th }}$ 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 5, the minimum permissible attenuation level of any spurious emission is $43+\log _{10}\left(P_{[W a t t s]}\right)$, where $P$ is the transmitter power in Watts.

For Band 7 and 41, the minimum permissible attenuation level of any spurious emission is 55 + $\log _{10}\left(P_{[\text {Watts }]}\right)$.

## Test Procedure Used

KDB 971168 D01 v03r01 - Section 6.0

## Test Settings

1. Start frequency was set to 30 MHz 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

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## FPCTEST

## Test Notes

1. Uplink carrier aggregation is supported in this EUT while operating in Power Class 2 and 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 Table 73 to 7-18 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 possible configurations and ports were tested and only the worst case data were reported.
5. Refer to Table 2-3 Section 2.3 of this test report for correlation between Antennas and Ports.

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## TPDTEST

## Port-A

|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | $\qquad$ | PCC (UL) Channel | PCC (UL) Frequency [MHz] | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | PCC UL RB Offset | SCC Band | $\begin{array}{\|c} \hline \text { SCC } \\ \text { Bandwidth } \\ {[\mathrm{MHz}]} \\ \hline \end{array}$ | SCC (UL) Channel | SCC (UL) Frequency [MHz] | Modulation | $\begin{array}{\|c} \text { PCC UL\# } \\ \text { RB } \end{array}$ | $\begin{gathered} \text { PCC UL } \\ \text { RB Offset } \end{gathered}$ | ULCA Tx.Power (dBm) |
| Max | LTE B5 | 10 | 20450 | 829 | QPSK | 1 | 49 | LTE B5 | 10 | 20899 | 838.9 | QPSK | 1 | 0 | 24.92 |
| Max | LTE B5 | 10 | 20525 | 836.5 | QPSK | 1 | 49 | LTE B5 | 5 | 20947 | 843.7 | QPSK | 1 | 0 | 24.93 |
| Max | lte b5 | 10 | 20600 | 844 | QPSK | 1 | 0 | LTE B5 | 10 | 20851 | 834.1 | QPSK | 1 | 49 | 24.97 |

Table 7-8. Conducted Powers (B5 - Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | PCC Bandwidth $[\mathrm{MHz}]$ | PCC (UL) Channel | PCC (UL) Frequency [ MHz ] | Modulation | $\begin{array}{\|c} \text { PCC UL\# } \\ \text { RB } \end{array}$ | PCC UL RB Offset | SCC Band | SCC <br> Bandwidth <br> $[\mathrm{MHz}]$ | SCC (UL) Channel | SCC (UL) Frequency [MHz] | Modulation | $\begin{array}{\|c} \text { PCC UL\# } \\ \text { RB } \end{array}$ | PCC UL RB Offset | ULCA Tx.Power (dBm) |
| Max | LTE B5 | 10 | 20450 | 829 | QPSK | 50 | 0 | LTE B5 | 10 | 20549 | 838.9 | QPSK | 50 | 0 | 23.96 |
| Max | LTE B5 | 10 | 20450 | 829 | 16-QAM | 50 | 0 | LTE B5 | 10 | 20549 | 838.9 | 16-QAM | 50 | 0 | 21.87 |
| Max | LTE B5 | 10 | 20450 | 829 | 64-QAM | 50 | 0 | LTE B5 | 10 | 20549 | 838.9 | 64-QAM | 50 | 0 | 21.73 |

Table 7-9. Conducted Powers (B5 with Various Combinations for 10MHz Channel Bandwidth)

|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | PCC Bandwidth [ MHz ] | PCC (UL) <br> Channel | $\begin{gathered} \hline \text { PCC (UL) } \\ \text { Frequency } \\ {[\mathrm{MHz}]} \\ \hline \end{gathered}$ | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | $\begin{gathered} \text { PCC UL } \\ \text { RB Offset } \end{gathered}$ | SCC Band | SCC <br> Bandwidth <br> [MHz] | SCC (UL) <br> Channel | SCC (UL) <br> Frequency [MHz] | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | PCC UL <br> RB Offset | ULCA <br> Tx.Power <br> (dBm) |
| Max | LTE B7 | 20 | 20850 | 2510 | QPSK | 1 | 99 | LTE B7 | 20 | 21048 | 2529.8 | QPSK | 1 | 0 | 24.90 |
| Max | LTE B7 | 20 | 21100 | 2535 | QPSK | 1 | 99 | LTE B7 | 20 | 21298 | 2554.8 | QPSK | 1 | 0 | 24.72 |
| Max | LTE B7 | 20 | 21350 | 2560 | QPSK | 1 | 0 | LTE B7 | 20 | 21152 | 2540.2 | QPSK | 1 | 99 | 24.91 |

Table 7-10. Conducted Powers (B7 - Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | PCC Bandwidth [MHz] | PCC (UL) <br> Channel | PCC (UL) <br> Frequency [MHz] | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | $\left\lvert\, \begin{gathered} \text { PCC UL } \\ \text { RB Offset } \end{gathered}\right.$ | SCC Band | SCC Bandwidth [MHz] | SCC (UL) <br> Channel | $\begin{gathered} \hline \text { SCC (UL) } \\ \text { Frequency } \\ {[\mathrm{MHz}]} \\ \hline \end{gathered}$ | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | PCC UL <br> RB Offset | ULCA Tx.Power (dBm) |
| Max | LTE B7 | 20 | 20850 | 2510 | QPSK | 100 | 0 | LTE B7 | 20 | 21048 | 2529.8 | QPSK | 100 | 0 | 22.72 |
| Max | LTE B7 | 20 | 20850 | 2510 | 16-QAM | 100 | 0 | LTE B7 | 20 | 21048 | 2529.8 | 16-QAM | 100 | 0 | 21.89 |
| Max | LTE B7 | 20 | 20850 | 2510 | 64-QAM | 100 | 0 | LTE B7 | 20 | 21048 | 2529.8 | 64-QAM | 100 | 0 | 21.87 |

Table 7-11. Conducted Powers (B7 with Various Combinations for 20MHz Channel Bandwidth)

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|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power <br> ULCA <br> Tx.Power <br> (dBm) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | PCC <br> Bandwidth <br> [MHz] | PCC (UL) <br> Channel | PCC (UL) <br> Frequency [ MHz ] | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | $\begin{gathered} \text { PCC UL } \\ \text { RB Offset } \end{gathered}$ | SCC Band | SCC <br> Bandwidth <br> [MHz] | SCC (UL) <br> Channel | $\begin{gathered} \hline \text { SCC (UL) } \\ \text { Frequency } \\ {[\mathrm{MHz}]} \\ \hline \end{gathered}$ | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | $\begin{gathered} \text { PCC UL } \\ \text { RB Offset } \end{gathered}$ |  |
| Max | LTE B41 | 20 | 39750 | 2506 | QPSK | 1 | 99 | LTE B41 | 20 | 39948 | 2525.8 | QPSK | 1 | 0 | 26.91 |
| Max | LTE B41 | 20 | 40620 | 2593 | QPSK | 1 | 99 | LTE B41 | 20 | 40818 | 2612.8 | QPSK | 1 | 0 | 26.94 |
| Max | LTE B41 | 20 | 41490 | 2680 | QPSK | 1 | 0 | LTE B41 | 20 | 41292 | 2660.2 | QPSK | 1 | 99 | 26.79 |

Table 7-12. Conducted Powers (B41-PC2 - Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power <br> ULCA <br> Tx.Power <br> (dBm) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | PCC <br> Bandwidth <br> [MHz] | PCC (UL) <br> Channel | $\begin{gathered} \hline \text { PCC (UL) } \\ \text { Frequency } \\ {[\mathrm{MHz}]} \\ \hline \end{gathered}$ | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | PCC UL <br> RB Offset | SCC Band | SCC Bandwidth $[\mathrm{MHz}]$ | SCC (UL) <br> Channel | $\begin{gathered} \hline \text { SCC (UL) } \\ \text { Frequency } \\ {[\mathrm{MHz}]} \\ \hline \end{gathered}$ | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | $\begin{gathered} \text { PCC UL } \\ \text { RB Offset } \end{gathered}$ |  |
| Max | LTE B41 | 20 | 39750 | 2506 | QPSK | 100 | 0 | LTE B41 | 20 | 39948 | 2525.8 | QPSK | 100 | 0 | 24.73 |
| Max | LTE B41 | 20 | 39750 | 2506 | 16-QAM | 100 | 0 | LTE B41 | 20 | 39948 | 2525.8 | 16-QAM | 100 | 0 | 23.76 |
| Max | LTE B41 | 20 | 39750 | 2506 | 64-QAM | 100 | 0 | LTE B41 | 20 | 39948 | 2525.8 | 64-QAM | 100 | 0 | 23.78 |

Table 7-13. Conducted Powers (B41-PC2 with Various Combinations for 20MHz Channel Bandwidth)

|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power <br> ULCA <br> Tx.Power <br> (dBm) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | PCC Bandwidth [MHz] | PCC (UL) <br> Channel | PCC (UL) <br> Frequency [MHz] | Modulation | $\begin{array}{\|c} \text { PCC UL\# } \\ \text { RB } \end{array}$ | $\left\lvert\, \begin{gathered} \text { PCC UL } \\ \text { RB Offset } \end{gathered}\right.$ | SCC Band | SCC Bandwidth [ MHz ] | SCC (UL) <br> Channel | $\begin{gathered} \hline \text { SCC (UL) } \\ \text { Frequency } \\ {[\mathrm{MHz}]} \\ \hline \end{gathered}$ | Modulation | $\begin{array}{\|c} \text { PCC UL\# } \\ \text { RB } \end{array}$ | $\begin{gathered} \text { PCC UL } \\ \text { RB Offset } \end{gathered}$ |  |
| Max | LTE B41 | 20 | 39750 | 2506 | QPSK | 1 | 99 | LTE B41 | 20 | 39948 | 2525.8 | QPSK | 1 | 0 | 24.80 |
| Max | LTE B41 | 20 | 40620 | 2593 | QPSK | 1 | 99 | LTE B41 | 20 | 40818 | 2612.8 | QPSK | 1 | 0 | 24.76 |
| Max | LTE B41 | 20 | 41490 | 2680 | QPSK | 1 | 0 | LTE B41 | 20 | 41292 | 2660.2 | QPSK | 1 | 99 | 24.71 |

Table 7-14. Conducted Powers (B41-PC3 - Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | PCC Bandwidth [MHz] | PCC (UL) <br> Channel | PCC (UL) <br> Frequency [MHz] | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | $\left\lvert\, \begin{gathered} \text { PCC UL } \\ \text { RB Offset } \end{gathered}\right.$ | SCC Band | SCC Bandwidth [MHz] | SCC (UL) <br> Channel | $\begin{gathered} \hline \text { SCC (UL) } \\ \text { Frequency } \\ {[\mathrm{MHz}]} \\ \hline \end{gathered}$ | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | PCC UL <br> RB Offset | ULCA Tx.Power (dBm) |
| 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 | 21.75 |
| Max | LTE B41 | 20 | 39750 | 2506 | 64-QAM | 100 | 0 | LTE B41 | 20 | 39948 | 2525.8 | 64-QAM | 100 | 0 | 21.76 |

Table 7-15. Conducted Powers (B41-PC3 with Various Combinations for 20MHz Channel Bandwidth)

| FCC ID: BCGA2069 | r尺 PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: <br> Quality Manager |
| :---: | :---: | :---: | :---: |
| Test Report S/N: 1C1912170054-03.BCG | Test Dates: <br> 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 250 of 423 |

## 层 PCTEST

## Port-B

|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | PCC Bandwidth [MHz] | PCC (UL) Channel | PCC (UL) Frequency [MHz] | Modulation | $\begin{array}{\|c} \hline \text { PCC UL\# } \\ \text { RB } \end{array}$ | PCC UL RB Offset | SCC Band | SCC Bandwidth [MHz] | SCC (UL) Channel | SCC (UL) <br> Frequency <br> [MHz] | Modulation | $\begin{array}{\|c} \text { PCC UL\# } \\ \text { RB } \end{array}$ | PCC UL RB Offset | ULCA Tx.Power (dBm) |
| Max | LTE B5 | 10 | 20450 | 829 | QPSK | 1 | 49 | LTE B5 | 10 | 20899 | 838.9 | QPSK | 1 | 0 | 23.50 |
| Max | LTE B5 | 10 | 20525 | 836.5 | QPSK | 1 | 49 | LTE B5 | 5 | 20947 | 843.7 | QPSK | 1 | 0 | 23.44 |
| Max | lTe B5 | 10 | 20600 | 844 | QPSK | 1 | 0 | LTE B5 | 10 | 20851 | 834.1 | QPSK | 1 | 49 | 23.42 |

Table 7-16. Conducted Powers (B5 - Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | $\begin{array}{\|c\|} \hline \text { PCC } \\ \text { Bandwidth } \\ {[\mathrm{MHz}]} \\ \hline \end{array}$ | PCC (UL) Channel | PCC (UL) Frequency [MHz] | Modulation | $\begin{array}{\|c} \hline \text { PCC UL\# } \\ \text { RB } \end{array}$ | PCC UL RB Offset | SCC Band | SCC Bandwidth [MHz] | SCC (UL) Channel | SCC (UL) Frequency [MHz] | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | PCC UL RB Offset | ULCA Tx.Power (dBm) |
| Max | LTE B5 | 10 | 20450 | 829 | QPSK | 50 | 0 | LTE B5 | 10 | 20549 | 838.9 | QPSK | 50 | 0 | 21.49 |
| Max | LTE B5 | 10 | 20450 | 829 | 16-QAM | 50 | 0 | LTE B5 | 10 | 20549 | 838.9 | 16-QAM | 50 | 0 | 20.44 |
| Max | LTE B5 | 10 | 20450 | 829 | 64-QAM | 50 | 0 | LTE B5 | 10 | 20549 | 838.9 | 64-QAM | 50 | 0 | 20.42 |

Table 7-17. Conducted Powers (B5 with Various Combinations for 10MHz Channel Bandwidth)

|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | PCC <br> Bandwidth <br> [MHz] | PCC (UL) <br> Channel | $\begin{array}{\|c} \hline \text { PCC (UL) } \\ \text { Frequency } \\ {[\mathrm{MHz}]} \\ \hline \end{array}$ | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | $\begin{aligned} & \text { PCC UL } \\ & \text { RB } \\ & \text { Offset } \end{aligned}$ | SCC Band | SCC <br> Bandwidth <br> $[\mathrm{MHz}]$ | SCC (UL) <br> Channel | SCC (UL) <br> Frequency <br> $[\mathrm{MHz}]$ | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | $\begin{aligned} & \text { PCC UL } \\ & \text { RB } \\ & \text { Offset } \end{aligned}$ | ULCA Tx.Power (dBm) |
| Max | LTE B7 | 20 | 20850 | 2510 | QPSK | 1 | 99 | LTE B7 | 20 | 21048 | 2529.8 | QPSK | 1 | 0 | 21.48 |
| Max | LTE B7 | 20 | 21100 | 2535 | QPSK | 1 | 99 | LTE B7 | 20 | 21298 | 2554.8 | QPSK | 1 | 0 | 21.35 |
| Max | LTE B7 | 20 | 21350 | 2560 | QPSK | 1 | 0 | LTE B7 | 20 | 21152 | 2540.2 | QPSK | 1 | 99 | 21.41 |

Table 7-18. Conducted Powers (B7 - Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power <br> ULCA <br> Tx.Power <br> (dBm) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | PCC Bandwidth [MHz] | PCC (UL) <br> Channel | $\begin{gathered} \hline \text { PCC (UL) } \\ \text { Frequency } \\ {[\mathrm{MHz}]} \\ \hline \end{gathered}$ | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | PCC UL RB Offset | SCC Band | SCC <br> Bandwidth <br> [MHz] | SCC (UL) <br> Channel | SCC (UL) <br> Frequency [MHz] | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | PCC UL <br> RB Offset |  |
| Max | LTE B7 | 20 | 20850 | 2510 | QPSK | 100 | 0 | LTE B7 | 20 | 21048 | 2529.8 | QPSK | 100 | 0 | 19.50 |
| Max | LTE B7 | 20 | 20850 | 2510 | 16-QAM | 100 | 0 | LTE B7 | 20 | 21048 | 2529.8 | 16-QAM | 100 | 0 | 18.44 |
| Max | LTE B7 | 20 | 20850 | 2510 | 64-QAM | 100 | 0 | LTE B7 | 20 | 21048 | 2529.8 | 64-QAM | 100 | 0 | 18.38 |

Table 7-19. Conducted Powers (B7 with Various Combinations for 20MHz Channel Bandwidth)

| FCC ID: BCGA2069 | 厌 PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: <br> Quality Manager |
| :---: | :---: | :---: | :---: |
| Test Report S/N: <br> 1C1912170054-03.BCG | $\begin{aligned} & \text { Test Dates: } \\ & 12 / 10 / 2019-02 / 24 / 2020 \end{aligned}$ | EUT Type: <br> Tablet Device | Page 251 of 423 |

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|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power <br> ULCA <br> Tx.Power <br> (dBm) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | PCC <br> Bandwidth <br> [MHz] | PCC (UL) <br> Channel | PCC (UL) <br> Frequency [MHz] | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | $\begin{gathered} \text { PCC UL } \\ \text { RB } \\ \text { Offset } \end{gathered}$ | SCC Band | SCC Bandwidth [MHz] | SCC (UL) <br> Channel | SCC (UL) <br> Frequency [MHz] | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | $\begin{aligned} & \text { PCC UL } \\ & \text { RB } \\ & \text { Offset } \end{aligned}$ |  |
| Max | LTE B41 | 20 | 39750 | 2506 | QPSK | 1 | 99 | LTE B41 | 20 | 39948 | 2525.8 | QPSK | 1 | 0 | 23.43 |
| Max | LTE B41 | 20 | 40620 | 2593 | QPSK | 1 | 99 | LTE B41 | 20 | 40818 | 2612.8 | QPSK | 1 | 0 | 23.42 |
| Max | LTE B41 | 20 | 41490 | 2680 | QPSK | 1 | 0 | LTE B41 | 20 | 41292 | 2660.2 | QPSK | 1 | 99 | 23.50 |

Table 7-20. Conducted Powers (B41-PC2 - Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power <br> ULCA <br> Tx.Power <br> (dBm) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | PCC <br> Bandwidth [MHz] | PCC (UL) <br> Channel | $\begin{gathered} \hline \text { PCC (UL) } \\ \text { Frequency } \\ {[\mathrm{MHz}]} \\ \hline \end{gathered}$ | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | $\left\lvert\, \begin{gathered} \text { PCC UL } \\ \text { RB Offset } \end{gathered}\right.$ | SCC Band | SCC <br> Bandwidth [ MHz ] | SCC (UL) <br> Channel | $\begin{gathered} \hline \text { SCC (UL) } \\ \text { Frequency } \\ {[\mathrm{MHz}]} \\ \hline \end{gathered}$ | Modulation | $\begin{array}{\|c} \text { PCC UL\# } \\ \text { RB } \end{array}$ | PCC UL <br> RB Offset |  |
| Max | LTE B41 | 20 | 39750 | 2506 | QPSK | 100 | 0 | LTE B41 | 20 | 39948 | 2525.8 | QPSK | 100 | 0 | 21.43 |
| Max | LTE B41 | 20 | 39750 | 2506 | 16-QAM | 100 | 0 | LTE B41 | 20 | 39948 | 2525.8 | 16-QAM | 100 | 0 | 20.43 |
| Max | LTE B41 | 20 | 39750 | 2506 | 64-QAM | 100 | 0 | LTE B41 | 20 | 39948 | 2525.8 | 64-QAM | 100 | 0 | 20.41 |

Table 7-21. Conducted Powers (B41-PC2 with Various Combinations for 20MHz Channel Bandwidth)

|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | PCC Bandwidth [MHz] | PCC (UL) <br> Channel | PCC (UL) <br> Frequency [MHz] | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | PCC UL <br> RB Offset | SCC Band | SCC <br> Bandwidth <br> [MHz] | SCC (UL) <br> Channel | SCC (UL) <br> Frequency [MHz] | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | PCC UL <br> RB Offset | ULCA Tx.Power (dBm) |
| Max | LTE B41 | 20 | 39750 | 2506 | QPSK | 1 | 99 | LTE B41 | 20 | 39948 | 2525.8 | QPSK | 1 | 0 | 21.50 |
| Max | LTE B41 | 20 | 40620 | 2593 | QPSK | 1 | 99 | LTE B41 | 20 | 40818 | 2612.8 | QPSK | 1 | 0 | 21.43 |
| Max | LTE B41 | 20 | 41490 | 2680 | QPSK | 1 | 0 | LTE B41 | 20 | 41292 | 2660.2 | QPSK | 1 | 99 | 21.27 |

Table 7-22. Conducted Powers (B41-PC3 - Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | PCC Bandwidth [MHz] | PCC (UL) <br> Channel | PCC (UL) <br> Frequency [MHz] | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | $\begin{gathered} \text { PCC UL } \\ \text { RB Offset } \end{gathered}$ | SCC Band | SCC Bandwidth [MHz] | SCC (UL) <br> Channel | $\begin{gathered} \hline \text { SCC (UL) } \\ \text { Frequency } \\ {[\mathrm{MHz}]} \\ \hline \end{gathered}$ | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | PCC UL <br> RB Offset | ULCA Tx.Power (dBm) |
| Max | LTE B41 | 20 | 39750 | 2506 | QPSK | 100 | 0 | LTE B41 | 20 | 39948 | 2525.8 | QPSK | 100 | 0 | 19.39 |
| Max | LTE B41 | 20 | 39750 | 2506 | 16-QAM | 100 | 0 | LTE B41 | 20 | 39948 | 2525.8 | 16-QAM | 100 | 0 | 18.43 |
| Max | LTE B41 | 20 | 39750 | 2506 | 64-QAM | 100 | 0 | LTE B41 | 20 | 39948 | 2525.8 | 64-QAM | 100 | 0 | 18.45 |

Table 7-23. Conducted Powers (B41-PC3 with Various Combinations for 20MHz Channel Bandwidth)

| FCC ID: BCGA2069 | ref PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: <br> Quality Manager |
| :---: | :---: | :---: | :---: |
| Test Report S/N: 1C1912170054-03.BCG | Test Dates: 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 252 of 423 |

## CPCTEST

## Port-C

|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power <br> ULCA <br> Tx.Power <br> (dBm) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | $\qquad$ | PCC (UL) Channel | PCC (UL) Frequency [MHz] | Modulation | $\left\lvert\, \begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}\right.$ | $\begin{array}{\|c} \hline \text { PCC UL } \\ \text { RB } \\ \text { Offset } \\ \hline \end{array}$ | SCC Band | SCC Bandwidth [MHz] | SCC (UL) Channel | $\begin{gathered} \hline \text { SCC (UL) } \\ \text { Frequency } \\ {[\mathrm{MHz}]} \\ \hline \end{gathered}$ | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | $\begin{array}{\|c} \hline \text { PCC UL } \\ \text { RB } \\ \text { Offset } \\ \hline \end{array}$ |  |
| Max | LTE B7 | 20 | 20850 | 2510 | QPSK | 1 | 99 | LTE B7 | 20 | 21048 | 2529.8 | QPSK | 1 | 0 | 24.47 |
| Max | LTE B7 | 20 | 21100 | 2535 | QPSK | 1 | 99 | LTE B7 | 20 | 21298 | 2554.8 | QPSK | 1 | 0 | 24.49 |
| Max | LTE B7 | 20 | 21350 | 2560 | QPSK | 1 | 0 | LTE B7 | 20 | 21152 | 2540.2 | QPSK | 1 | 99 | 24.50 |

Table 7-24. Conducted Powers (B7 - Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | PCC Bandwidth [MHz] | PCC (UL) <br> Channel | PCC (UL) <br> Frequency [MHz] | Modulation | $\begin{array}{\|c} \text { PCC UL\# } \\ \text { RB } \end{array}$ | $\left\lvert\, \begin{gathered} \text { PCC UL } \\ \text { RB Offset } \end{gathered}\right.$ | SCC Band | SCC <br> Bandwidth <br> [MHz] | SCC (UL) <br> Channel | $\begin{gathered} \hline \text { SCC (UL) } \\ \text { Frequency } \\ {[\mathrm{MHz}]} \\ \hline \end{gathered}$ | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | PCC UL <br> RB Offset | ULCA <br> Tx.Power (dBm) |
| Max | LTE B7 | 20 | 20850 | 2510 | QPSK | 100 | 0 | LTE B7 | 20 | 21048 | 2529.8 | QPSK | 100 | 0 | 22.42 |
| Max | LTE B7 | 20 | 20850 | 2510 | 16-QAM | 100 | 0 | LTE B7 | 20 | 21048 | 2529.8 | 16-QAM | 100 | 0 | 21.50 |
| Max | LTE B7 | 20 | 20850 | 2510 | 64-QAM | 100 | 0 | LTE B7 | 20 | 21048 | 2529.8 | 64-QAM | 100 | 0 | 21.48 |

Table 7-25. Conducted Powers (B7 with Various Combinations for 20MHz Channel Bandwidth)

|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power <br> ULCA <br> Tx.Power (dBm) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | PCC <br> Bandwidth <br> [MHz] | PCC (UL) <br> Channel | PCC (UL) <br> Frequency [MHz] | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | $\begin{aligned} & \text { PCC UL } \\ & \text { RB } \\ & \text { Offset } \end{aligned}$ | SCC Band | SCC <br> Bandwidth <br> [MHz] | SCC (UL) <br> Channel | SCC (UL) <br> Frequency <br> [MHz] | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | $\begin{aligned} & \text { PCC UL } \\ & \text { RB } \\ & \text { Offset } \end{aligned}$ |  |
| Max | LTE B41 | 20 | 39750 | 2506 | QPSK | 1 | 99 | LTE B41 | 20 | 39948 | 2525.8 | QPSK | 1 | 0 | 26.30 |
| Max | LTE B41 | 20 | 40620 | 2593 | QPSK | 1 | 99 | LTE B41 | 20 | 40818 | 2612.8 | QPSK | 1 | 0 | 26.45 |
| Max | LTE B41 | 20 | 41490 | 2680 | QPSK | 1 | 0 | LTE B41 | 20 | 41292 | 2660.2 | QPSK | 1 | 99 | 26.45 |

Table 7-26. Conducted Powers (B41-PC2 - Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | PCC Bandwidth [ MHz ] | PCC (UL) <br> Channel | PCC (UL) <br> Frequency [MHz] | Modulation | $\begin{array}{\|c} \hline \text { PCC UL\# } \\ \text { RB } \end{array}$ | $\left\lvert\, \begin{gathered} \text { PCC UL } \\ \text { RB Offset } \end{gathered}\right.$ | SCC Band | SCC Bandwidth [ MHz ] | SCC (UL) <br> Channel | $\begin{array}{\|c} \hline \text { SCC (UL) } \\ \text { Frequency } \\ {[\mathrm{MHz}]} \\ \hline \end{array}$ | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | PCC UL <br> RB Offset | $\begin{gathered} \text { ULCA } \\ \text { Tx.Power } \\ (\mathrm{dBm}) \\ \hline \end{gathered}$ |
| Max | LTE B41 | 20 | 39750 | 2506 | QPSK | 100 | 0 | LTE B41 | 20 | 39948 | 2525.8 | QPSK | 100 | 0 | 24.29 |
| Max | LTE B41 | 20 | 39750 | 2506 | 16-QAM | 100 | 0 | LTE B41 | 20 | 39948 | 2525.8 | 16-QAM | 100 | 0 | 23.37 |
| Max | LTE B41 | 20 | 39750 | 2506 | 64-QAM | 100 | 0 | LTE B41 | 20 | 39948 | 2525.8 | 64-QAM | 100 | 0 | 23.36 |

Table 7-27. Conducted Powers (B41-PC2 with Various Combinations for 20MHz Channel Bandwidth)

|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power <br> ULCA <br> Tx.Power <br> (dBm) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | PCC <br> Bandwidth <br> [MHz] | PCC (UL) <br> Channel | PCC (UL) <br> Frequency [MHz] | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | $\begin{gathered} \text { PCC UL } \\ \text { RB } \end{gathered}$ <br> Offset | SCC Band | SCC <br> Bandwidth <br> [MHz] | SCC (UL) <br> Channel | SCC (UL) <br> Frequency <br> [MHz] | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | $\begin{gathered} \text { PCC UL } \\ \text { RB } \end{gathered}$ <br> Offset |  |
| Max | LTE B41 | 20 | 39750 | 2506 | QPSK | 1 | 99 | LTE B41 | 20 | 39948 | 2525.8 | QPSK | 1 | 0 | 24.49 |
| Max | LTE B41 | 20 | 40620 | 2593 | QPSK | 1 | 99 | LTE B41 | 20 | 40818 | 2612.8 | QPSK | 1 | 0 | 24.50 |
| Max | LTE B41 | 20 | 41490 | 2680 | QPSK | 1 | 0 | LTE B41 | 20 | 41292 | 2660.2 | QPSK | 1 | 99 | 24.46 |

Table 7-28. Conducted Powers (B41-PC3 - Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

| FCC ID: BCGA2069 | r尺 PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: <br> Quality Manager |
| :---: | :---: | :---: | :---: |
| Test Report S/N: <br> 1C1912170054-03.BCG | Test Dates: 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 253 of 423 |

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|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | $\begin{array}{\|c\|} \hline \text { PCC } \\ \text { Bandwidth } \\ {[\mathrm{MHz}]} \\ \hline \end{array}$ | PCC (UL) Channel | PCC (UL) Frequency [ MHz ] | Modulation | $\begin{array}{\|c} \text { PCC UL\# } \\ \text { RB } \end{array}$ | PCC UL RB Offset | SCC Band | $\begin{array}{\|c\|} \hline \text { SCC } \\ \text { Bandwidth } \\ {[\mathrm{MHz}]} \\ \hline \end{array}$ | SCC (UL) Channel | SCC (UL) Frequency [MHz] | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | PCC UL RB Offset | ULCA Tx.Power (dBm) |
| Max | LTE B41 | 20 | 39750 | 2506 | QPSK | 100 | 0 | LTE B41 | 20 | 39948 | 2525.8 | QPSK | 100 | 0 | 22.39 |
| Max | LTE B41 | 20 | 39750 | 2506 | 16-QAM | 100 | 0 | LTE B41 | 20 | 39948 | 2525.8 | 16-QAM | 100 | 0 | 21.41 |
| Max | LTE B41 | 20 | 39750 | 2506 | 64-QAM | 100 | 0 | LTE B41 | 20 | 39948 | 2525.8 | 64-QAM | 100 | 0 | 21.39 |

Table 7-29. Conducted Powers (B41-PC3 with Various Combinations for 20MHz Channel Bandwidth)

| FCC ID: BCGA2069 | rrf PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: <br> Quality Manager |
| :---: | :---: | :---: | :---: |
| Test Report S/N: 1C1912170054-03.BCG | Test Dates: 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 254 of 423 |

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## CPCTEST

## Port-D

| Power State | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PCC Band | PCC <br> Bandwidth <br> $[\mathrm{MHz}]$ | PCC (UL) Channel | $\begin{array}{\|c\|} \hline \text { PCC (UL) } \\ \text { Frequency } \\ {[\mathrm{MHz}]} \\ \hline \end{array}$ | Modulation | $\left\lvert\, \begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}\right.$ | $\begin{gathered} \hline \text { PCC UL } \\ \text { RB } \\ \text { Offset } \end{gathered}$ | SCC Band | SCC <br> Bandwidth <br> $[\mathrm{MHz}]$ | SCC (UL) <br> Channel | SCC (UL) <br> Frequency <br> $[\mathrm{MHz}]$ | Modulation | $\begin{array}{\|c} \text { PCC UL\# } \\ \text { RB } \end{array}$ | $\begin{gathered} \hline \text { PCC UL } \\ \text { RB } \\ \text { Offset } \end{gathered}$ | ULCA Tx.Power (dBm) |
| Max | LTE B7 | 20 | 20850 | 2510 | QPSK | 1 | 99 | LTE B7 | 20 | 21048 | 2529.8 | QPSK | 1 | 0 | 21.93 |
| Max | LTE B7 | 20 | 21100 | 2535 | QPSK | 1 | 99 | LTE B7 | 20 | 21298 | 2554.8 | QPSK | 1 | 0 | 22.00 |
| Max | LTE B7 | 20 | 21350 | 2560 | QPSK | 1 | 0 | LTE B7 | 20 | 21152 | 2540.2 | QPSK | 1 | 99 | 22.00 |

Table 7-30. Conducted Powers (B7 - Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | PCC Bandwidth [MHz] | PCC (UL) <br> Channel | $\begin{gathered} \hline \text { PCC (UL) } \\ \text { Frequency } \\ {[\mathrm{MHz}]} \\ \hline \end{gathered}$ | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | $\left\lvert\, \begin{gathered} \text { PCC UL } \\ \text { RB Offset } \end{gathered}\right.$ | SCC Band | SCC Bandwidth $[\mathrm{MHz}]$ | SCC (UL) <br> Channel | $\begin{gathered} \hline \text { SCC (UL) } \\ \text { Frequency } \\ {[\mathrm{MHz}]} \\ \hline \end{gathered}$ | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | $\begin{gathered} \text { PCC UL } \\ \text { RB Offset } \end{gathered}$ | ULCA <br> Tx.Power <br> (dBm) |
| Max | LTE B7 | 20 | 20850 | 2510 | QPSK | 100 | 0 | LTE B7 | 20 | 21048 | 2529.8 | QPSK | 100 | 0 | 19.95 |
| Max | LTE B7 | 20 | 20850 | 2510 | 16-QAM | 100 | 0 | LTE B7 | 20 | 21048 | 2529.8 | 16-QAM | 100 | 0 | 19.00 |
| Max | LTE B7 | 20 | 20850 | 2510 | 64-QAM | 100 | 0 | LTE B7 | 20 | 21048 | 2529.8 | 64-QAM | 100 | 0 | 18.93 |

Table 7-31. Conducted Powers (B7 with Various Combinations for 20MHz Channel Bandwidth)

|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | PCC <br> Bandwidth <br> [MHz] | PCC (UL) <br> Channel | PCC (UL) <br> Frequency <br> [MHz] | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | $\begin{gathered} \text { PCC UL } \\ \text { RB } \\ \text { Offset } \end{gathered}$ | SCC Band | SCC <br> Bandwidth <br> [MHz] | SCC (UL) <br> Channel | SCC (UL) <br> Frequency [MHz] | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | $\begin{aligned} & \text { PCC UL } \\ & \text { RB } \\ & \text { Offset } \end{aligned}$ | ULCA <br> Tx.Power (dBm) |
| Max | LTE B41 | 20 | 39750 | 2506 | QPSK | 1 | 99 | LTE B41 | 20 | 39948 | 2525.8 | QPSK | 1 | 0 | 22.50 |
| Max | LTE B41 | 20 | 40620 | 2593 | QPSK | 1 | 99 | LTE B41 | 20 | 40818 | 2612.8 | QPSK | 1 | 0 | 22.47 |
| Max | LTE B41 | 20 | 41490 | 2680 | QPSK | 1 | 0 | LTE B41 | 20 | 41292 | 2660.2 | QPSK | 1 | 99 | 22.49 |

Table 7-32. Conducted Powers (B41-PC2 - Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | PCC Bandwidth [MHz] | PCC (UL) <br> Channel | PCC (UL) <br> Frequency [MHz] | Modulation | $\begin{array}{\|c} \text { PCC UL\# } \\ \text { RB } \end{array}$ | $\left\lvert\, \begin{gathered} \text { PCC UL } \\ \text { RB Offset } \end{gathered}\right.$ | SCC Band | SCC Bandwidth [MHz] | SCC (UL) <br> Channel | $\begin{array}{\|c\|} \hline \text { SCC (UL) } \\ \text { Frequency } \\ {[\mathrm{MHz}]} \\ \hline \end{array}$ | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | PCC UL RB Offset | ULCA <br> Tx.Power (dBm) |
| Max | LTE B41 | 20 | 39750 | 2506 | QPSK | 100 | 0 | LTE B41 | 20 | 39948 | 2525.8 | QPSK | 100 | 0 | 20.50 |
| Max | LTE B41 | 20 | 39750 | 2506 | 16-QAM | 100 | 0 | LTE B41 | 20 | 39948 | 2525.8 | 16-QAM | 100 | 0 | 19.46 |
| Max | LTE B41 | 20 | 39750 | 2506 | 64-QAM | 100 | 0 | LTE B41 | 20 | 39948 | 2525.8 | 64-QAM | 100 | 0 | 19.43 |

Table 7-33. Conducted Powers (B41-PC2 with Various Combinations for 20MHz Channel Bandwidth)

|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | PCC <br> Bandwidth <br> [MHz] | PCC (UL) <br> Channel | PCC (UL) <br> Frequency [MHz] | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | $\begin{aligned} & \text { PCC UL } \\ & \text { RB } \\ & \text { Offset } \end{aligned}$ | SCC Band | SCC <br> Bandwidth <br> [MHz] | SCC (UL) <br> Channel | $\begin{gathered} \text { SCC (UL) } \\ \text { Frequency } \\ {[\mathrm{MHz}]} \end{gathered}$ | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | $\begin{gathered} \text { PCC UL } \\ \text { RB } \end{gathered}$ <br> Offset | ULCA Tx.Power (dBm) |
| Max | LTE B41 | 20 | 39750 | 2506 | QPSK | 1 | 99 | LTE B41 | 20 | 39948 | 2525.8 | QPSK | 1 | 0 | 21.00 |
| Max | LTE B41 | 20 | 40620 | 2593 | QPSK | 1 | 99 | LTE B41 | 20 | 40818 | 2612.8 | QPSK | 1 | 0 | 20.98 |
| Max | LTE B41 | 20 | 41490 | 2680 | QPSK | 1 | 0 | LTE B41 | 20 | 41292 | 2660.2 | QPSK | 1 | 99 | 20.87 |

Table 7-34. Conducted Powers (B41-PC3 - Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

| FCC ID: BCGA2069 | rrf PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| :---: | :---: | :---: | :---: |
| Test Report S/N: <br> 1C1912170054-03.BCG | $\begin{aligned} & \hline \text { Test Dates: } \\ & \text { 12/10/2019-02/24/2020 } \\ & \hline \end{aligned}$ | EUT Type: <br> Tablet Device | Page 255 of 423 |

## CPCTEST

|  | PCC |  |  |  |  |  |  | SCC |  |  |  |  |  |  | Power |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Power State | PCC Band | $\begin{array}{\|c\|} \hline \text { PCC } \\ \text { Bandwidth } \\ {[\mathrm{MHz}]} \\ \hline \end{array}$ | PCC (UL) Channel | PCC (UL) Frequency [ MHz ] | Modulation | $\begin{array}{\|c} \text { PCC UL\# } \\ \text { RB } \end{array}$ | PCC UL RB Offset | SCC Band | $\begin{array}{\|c\|} \hline \text { SCC } \\ \text { Bandwidth } \\ {[\mathrm{MHz}]} \\ \hline \end{array}$ | SCC (UL) Channel | SCC (UL) Frequency [MHz] | Modulation | $\begin{gathered} \text { PCC UL\# } \\ \text { RB } \end{gathered}$ | PCC UL RB Offset | ULCA Tx.Power (dBm) |
| Max | LTE B41 | 20 | 39750 | 2506 | QPSK | 100 | 0 | LTE B41 | 20 | 39948 | 2525.8 | QPSK | 100 | 0 | 19.00 |
| Max | LTE B41 | 20 | 39750 | 2506 | 16-QAM | 100 | 0 | LTE B41 | 20 | 39948 | 2525.8 | 16-QAM | 100 | 0 | 18.00 |
| Max | LTE B41 | 20 | 39750 | 2506 | 64-QAM | 100 | 0 | LTE B41 | 20 | 39948 | 2525.8 | 64-QAM | 100 | 0 | 17.98 |

Table 7-35. Conducted Powers (B41-PC3 with Various Combinations for 20MHz Channel Bandwidth)

| FCC ID: BCGA2069 | rrf PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: <br> Quality Manager |
| :---: | :---: | :---: | :---: |
| Test Report S/N: 1C1912170054-03.BCG | Test Dates: 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 256 of 423 |

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## Band 5



Plot 7-426. Conducted Spurious Plot (Band 5 - 10.0MHz QPSK - PCC 1/49 SCC 1/0 - Low Channel)


Plot 7-427. Conducted Spurious Plot (Band 5 - 10.0MHz QPSK - PCC 1/49 SCC 1/0 - Low Channel)

| FCC ID: BCGA2069 | ref PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: <br> Quality Manager |
| :---: | :---: | :---: | :---: |
| Test Report S/N: <br> 1C1912170054-03.BCG | Test Dates: <br> 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 257 of 423 |

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Plot 7-428. Conducted Spurious Plot (Band 5 - 10.0MHz QPSK - PCC 1/49 SCC 1/0 - Low Channel)


Plot 7-429. Conducted Spurious Plot (Band 5 - 10.0MHz QPSK - PCC 1/49 SCC 1/0 - Low Channel)

| FCC ID: BCGA2069 | ref PCTEST | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| :---: | :---: | :---: | :---: |
| Test Report S/N: <br> 1C1912170054-03.BCG | Test Dates: <br> 12/10/2019-02/24/2020 | EUT Type: <br> Tablet Device | Page 258 of 423 |

