

|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10623-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)  | X | 5.18 | 66.36 | 16.02 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.37 | 66.67 | 16.30 |      | 130.0 |         |
|           |                                                    | Z | 5.26 | 66.42 | 16.12 |      | 130.0 |         |
| 10624-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)  | X | 5.37 | 66.56 | 16.19 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.56 | 66.83 | 16.44 |      | 130.0 |         |
|           |                                                    | Z | 5.45 | 66.62 | 16.29 |      | 130.0 |         |
| 10625-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)  | X | 5.70 | 67.43 | 16.67 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.96 | 67.86 | 17.00 |      | 130.0 |         |
|           |                                                    | Z | 5.85 | 67.68 | 16.87 |      | 130.0 |         |
| 10626-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)  | X | 5.53 | 66.58 | 16.10 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.67 | 66.83 | 16.33 |      | 130.0 |         |
|           |                                                    | Z | 5.59 | 66.62 | 16.19 |      | 130.0 |         |
| 10627-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)  | X | 5.76 | 67.13 | 16.34 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.92 | 67.36 | 16.55 |      | 130.0 |         |
|           |                                                    | Z | 5.84 | 67.20 | 16.44 |      | 130.0 |         |
| 10628-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)  | X | 5.55 | 66.65 | 16.04 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.74 | 67.01 | 16.32 |      | 130.0 |         |
|           |                                                    | Z | 5.64 | 66.75 | 16.15 |      | 130.0 |         |
| 10629-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)  | X | 5.63 | 66.70 | 16.06 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.82 | 67.06 | 16.34 |      | 130.0 |         |
|           |                                                    | Z | 5.73 | 66.85 | 16.20 |      | 130.0 |         |
| 10630-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)  | X | 6.02 | 68.08 | 16.75 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.35 | 68.81 | 17.22 |      | 130.0 |         |
|           |                                                    | Z | 6.21 | 68.47 | 17.01 |      | 130.0 |         |
| 10631-AAB | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)  | X | 5.93 | 67.91 | 16.85 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.22 | 68.49 | 17.23 |      | 130.0 |         |
|           |                                                    | Z | 6.07 | 68.13 | 17.02 |      | 130.0 |         |
| 10632-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)  | X | 5.73 | 67.18 | 16.51 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.89 | 67.41 | 16.70 |      | 130.0 |         |
|           |                                                    | Z | 5.80 | 67.23 | 16.59 |      | 130.0 |         |
| 10633-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)  | X | 5.62 | 66.81 | 16.15 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.83 | 67.22 | 16.45 |      | 130.0 |         |
|           |                                                    | Z | 5.70 | 66.89 | 16.25 |      | 130.0 |         |
| 10634-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)  | X | 5.60 | 66.83 | 16.22 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.80 | 67.20 | 16.49 |      | 130.0 |         |
|           |                                                    | Z | 5.68 | 66.91 | 16.32 |      | 130.0 |         |
| 10635-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)  | X | 5.49 | 66.20 | 15.64 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.70 | 66.62 | 15.97 |      | 130.0 |         |
|           |                                                    | Z | 5.57 | 66.30 | 15.76 |      | 130.0 |         |
| 10636-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | X | 5.94 | 66.94 | 16.20 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.08 | 67.21 | 16.43 |      | 130.0 |         |
|           |                                                    | Z | 6.01 | 67.01 | 16.29 |      | 130.0 |         |
| 10637-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle) | X | 6.09 | 67.31 | 16.37 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.25 | 67.59 | 16.60 |      | 130.0 |         |
|           |                                                    | Z | 6.17 | 67.39 | 16.47 |      | 130.0 |         |
| 10638-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle) | X | 6.09 | 67.29 | 16.33 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.24 | 67.57 | 16.56 |      | 130.0 |         |
|           |                                                    | Z | 6.16 | 67.36 | 16.43 |      | 130.0 |         |

|           |                                                        |   |        |        |       |       |       |         |
|-----------|--------------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10639-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)     | X | 6.07   | 67.23  | 16.35 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.24   | 67.58  | 16.61 |       | 130.0 |         |
|           |                                                        | Z | 6.15   | 67.32  | 16.46 |       | 130.0 |         |
| 10640-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)     | X | 6.07   | 67.24  | 16.30 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.27   | 67.66  | 16.60 |       | 130.0 |         |
|           |                                                        | Z | 6.16   | 67.36  | 16.42 |       | 130.0 |         |
| 10641-AAC | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)     | X | 6.12   | 67.17  | 16.28 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.27   | 67.42  | 16.50 |       | 130.0 |         |
|           |                                                        | Z | 6.19   | 67.22  | 16.37 |       | 130.0 |         |
| 10642-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)     | X | 6.15   | 67.40  | 16.56 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.33   | 67.71  | 16.80 |       | 130.0 |         |
|           |                                                        | Z | 6.23   | 67.48  | 16.66 |       | 130.0 |         |
| 10643-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)     | X | 6.00   | 67.10  | 16.31 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.17   | 67.42  | 16.57 |       | 130.0 |         |
|           |                                                        | Z | 6.07   | 67.18  | 16.41 |       | 130.0 |         |
| 10644-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)     | X | 6.14   | 67.54  | 16.55 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.39   | 68.09  | 16.93 |       | 130.0 |         |
|           |                                                        | Z | 6.25   | 67.74  | 16.71 |       | 130.0 |         |
| 10645-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)     | X | 6.37   | 67.87  | 16.68 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.75   | 68.70  | 17.18 |       | 130.0 |         |
|           |                                                        | Z | 6.71   | 68.64  | 17.12 |       | 130.0 |         |
| 10646-AAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)  | X | 52.73  | 128.49 | 41.99 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 32.04  | 112.77 | 37.15 |       | 60.0  |         |
|           |                                                        | Z | 46.55  | 124.28 | 40.70 |       | 60.0  |         |
| 10647-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | X | 50.70  | 128.57 | 42.19 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 33.96  | 114.91 | 37.91 |       | 60.0  |         |
|           |                                                        | Z | 46.47  | 125.17 | 41.11 |       | 60.0  |         |
| 10648-AAA | CDMA2000 (1x Advanced)                                 | X | 0.58   | 61.87  | 9.06  | 0.00  | 150.0 | ± 9.6 % |
|           |                                                        | Y | 0.76   | 64.26  | 11.57 |       | 150.0 |         |
|           |                                                        | Z | 0.64   | 62.51  | 9.86  |       | 150.0 |         |
| 10652-AAB | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)         | X | 4.10   | 68.19  | 16.78 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.52   | 68.90  | 17.43 |       | 80.0  |         |
|           |                                                        | Z | 4.21   | 68.32  | 17.00 |       | 80.0  |         |
| 10653-AAB | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)        | X | 4.60   | 67.52  | 16.98 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.98   | 68.15  | 17.48 |       | 80.0  |         |
|           |                                                        | Z | 4.71   | 67.63  | 17.14 |       | 80.0  |         |
| 10654-AAB | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)        | X | 4.57   | 67.19  | 17.00 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.91   | 67.83  | 17.47 |       | 80.0  |         |
|           |                                                        | Z | 4.66   | 67.30  | 17.15 |       | 80.0  |         |
| 10655-AAB | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)        | X | 4.63   | 67.17  | 17.04 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.97   | 67.86  | 17.52 |       | 80.0  |         |
|           |                                                        | Z | 4.72   | 67.30  | 17.19 |       | 80.0  |         |
| 10658-AAA | Pulse Waveform (200Hz, 10%)                            | X | 21.51  | 94.36  | 24.67 | 10.00 | 50.0  | ± 9.6 % |
|           |                                                        | Y | 11.91  | 84.74  | 23.00 |       | 50.0  |         |
|           |                                                        | Z | 18.15  | 91.90  | 24.27 |       | 50.0  |         |
| 10659-AAA | Pulse Waveform (200Hz, 20%)                            | X | 100.00 | 114.14 | 28.15 | 6.99  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 26.50  | 98.27  | 25.77 |       | 60.0  |         |
|           |                                                        | Z | 100.00 | 115.09 | 28.80 |       | 60.0  |         |

|           |                             |   |        |        |       |      |       |         |
|-----------|-----------------------------|---|--------|--------|-------|------|-------|---------|
| 10660-AAA | Pulse Waveform (200Hz, 40%) | X | 100.00 | 111.33 | 25.43 | 3.98 | 80.0  | ± 9.6 % |
|           |                             | Y | 100.00 | 115.92 | 28.23 |      | 80.0  |         |
|           |                             | Z | 100.00 | 112.30 | 26.01 |      | 80.0  |         |
| 10661-AAA | Pulse Waveform (200Hz, 60%) | X | 100.00 | 110.55 | 23.78 | 2.22 | 100.0 | ± 9.6 % |
|           |                             | Y | 100.00 | 116.59 | 27.01 |      | 100.0 |         |
|           |                             | Z | 100.00 | 111.76 | 24.43 |      | 100.0 |         |
| 10662-AAA | Pulse Waveform (200Hz, 80%) | X | 100.00 | 108.74 | 21.34 | 0.97 | 120.0 | ± 9.6 % |
|           |                             | Y | 100.00 | 120.28 | 26.61 |      | 120.0 |         |
|           |                             | Z | 100.00 | 110.89 | 22.32 |      | 120.0 |         |

<sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 0108**

The Swiss Accreditation Service is one of the signatories to the EA  
 Multilateral Agreement for the recognition of calibration certificates

Client **PC Test**

Certificate No: **ES3-3022\_Jun18**

## CALIBRATION CERTIFICATE

Object **ES3DV2 - SN:3022**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v6**  
**Calibration procedure for dosimetric E-field probes**

Calibration date: **June 22, 2018**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
 The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature  $(22 \pm 3)^\circ\text{C}$  and humidity  $< 70\%$ .

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards          | ID               | Cal Date (Certificate No.)        | Scheduled Calibration  |
|----------------------------|------------------|-----------------------------------|------------------------|
| Power meter NRP            | SN: 104778       | 04-Apr-18 (No. 217-02672/02673)   | Apr-19                 |
| Power sensor NRP-Z91       | SN: 103244       | 04-Apr-18 (No. 217-02672)         | Apr-19                 |
| Power sensor NRP-Z91       | SN: 103245       | 04-Apr-18 (No. 217-02673)         | Apr-19                 |
| Reference 20 dB Attenuator | SN: S5277 (20x)  | 04-Apr-18 (No. 217-02682)         | Apr-19                 |
| Reference Probe ES3DV2     | SN: 3013         | 30-Dec-17 (No. ES3-3013_Dec17)    | Dec-18                 |
| DAE4                       | SN: 660          | 21-Dec-17 (No. DAE4-660_Dec17)    | Dec-18                 |
| Secondary Standards        | ID               | Check Date (in house)             | Scheduled Check        |
| Power meter E4419B         | SN: GB41293874   | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| Power sensor E4412A        | SN: MY41498087   | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| Power sensor E4412A        | SN: 000110210    | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| RF generator HP 8648C      | SN: US3642U01700 | 04-Aug-99 (in house check Jun-18) | In house check: Jun-20 |
| Network Analyzer HP 8753E  | SN: US37390585   | 18-Oct-01 (in house check Oct-17) | In house check: Oct-18 |

|                                                                                                                 | Name          | Function              | Signature |
|-----------------------------------------------------------------------------------------------------------------|---------------|-----------------------|-----------|
| Calibrated by:                                                                                                  | Leif Klysner  | Laboratory Technician |           |
| Approved by:                                                                                                    | Katja Pokovic | Technical Manager     |           |
| Issued: June 23, 2018                                                                                           |               |                       |           |
| This calibration certificate shall not be reproduced except in full without written approval of the laboratory. |               |                       |           |



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Accreditation No.: **SCS 0108**

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### Glossary:

|                          |                                                                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| TSL                      | tissue simulating liquid                                                                                                                                |
| NORM <sub>x,y,z</sub>    | sensitivity in free space                                                                                                                               |
| ConvF                    | sensitivity in TSL / NORM <sub>x,y,z</sub>                                                                                                              |
| DCP                      | diode compression point                                                                                                                                 |
| CF                       | crest factor (1/duty_cycle) of the RF signal                                                                                                            |
| A, B, C, D               | modulation dependent linearization parameters                                                                                                           |
| Polarization $\phi$      | $\phi$ rotation around probe axis                                                                                                                       |
| Polarization $\vartheta$ | $\vartheta$ rotation around an axis that is in the plane normal to probe axis (at measurement center),<br>i.e., $\vartheta = 0$ is normal to probe axis |
| Connector Angle          | information used in DASY system to align probe sensor X to the robot coordinate system                                                                  |

### Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

### Methods Applied and Interpretation of Parameters:

- NORM<sub>x,y,z</sub>**: Assessed for E-field polarization  $\vartheta = 0$  ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not affect the  $E^2$ -field uncertainty inside TSL (see below ConvF).
- NORM(f)<sub>x,y,z</sub>** = NORM<sub>x,y,z</sub> \* frequency\_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP<sub>x,y,z</sub>**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A<sub>x,y,z</sub>; B<sub>x,y,z</sub>; C<sub>x,y,z</sub>; D<sub>x,y,z</sub>; VR<sub>x,y,z</sub>**: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for  $f \leq 800$  MHz) and inside waveguide using analytical field distributions based on power measurements for  $f > 800$  MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM<sub>x,y,z</sub> \* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from  $\pm 50$  MHz to  $\pm 100$  MHz.
- Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle**: The angle is assessed using the information gained by determining the NORM<sub>x</sub> (no uncertainty required).

# Probe ES3DV2

## SN:3022

Manufactured: April 15, 2003  
Calibrated: June 22, 2018

Calibrated for DASY/EASY Systems  
(Note: non-compatible with DASY2 system!)

## DASY/EASY - Parameters of Probe: ES3DV2 - SN:3022

### Basic Calibration Parameters

|                                                           | Sensor X | Sensor Y | Sensor Z | Unc (k=2)     |
|-----------------------------------------------------------|----------|----------|----------|---------------|
| Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup> | 0.97     | 1.01     | 0.96     | $\pm 10.1 \%$ |
| DCP (mV) <sup>B</sup>                                     | 99.7     | 96.5     | 102.3    |               |

### Modulation Calibration Parameters

| UID | Communication System Name |   | A<br>dB | B<br>dB $\sqrt{\mu\text{V}}$ | C   | D<br>dB | VR<br>mV | Unc <sup>E</sup><br>(k=2) |
|-----|---------------------------|---|---------|------------------------------|-----|---------|----------|---------------------------|
| 0   | CW                        | X | 0.0     | 0.0                          | 1.0 | 0.00    | 180.7    | $\pm 3.3 \%$              |
|     |                           | Y | 0.0     | 0.0                          | 1.0 |         | 185.0    |                           |
|     |                           | Z | 0.0     | 0.0                          | 1.0 |         | 180.9    |                           |

Note: For details on UID parameters see Appendix.

### Sensor Model Parameters

|   | C1<br>fF | C2<br>fF | $\alpha$<br>$\text{V}^{-1}$ | T1<br>$\text{ms}\cdot\text{V}^{-2}$ | T2<br>$\text{ms}\cdot\text{V}^{-1}$ | T3<br>ms | T4<br>$\text{V}^{-2}$ | T5<br>$\text{V}^{-1}$ | T6    |
|---|----------|----------|-----------------------------|-------------------------------------|-------------------------------------|----------|-----------------------|-----------------------|-------|
| X | 56.30    | 408.5    | 36.17                       | 29.39                               | 2.977                               | 5.10     | 0.000                 | 0.584                 | 1.011 |
| Y | 51.61    | 379.9    | 36.94                       | 28.97                               | 2.404                               | 5.10     | 0.000                 | 0.498                 | 1.013 |
| Z | 49.66    | 357.5    | 35.61                       | 28.42                               | 2.517                               | 5.10     | 0.193                 | 0.469                 | 1.009 |

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor  $k=2$ , which for a normal distribution corresponds to a coverage probability of approximately 95%.

<sup>A</sup> The uncertainties of Norm X,Y,Z do not affect the  $E^2$ -field uncertainty inside TSL (see Pages 5 and 6).

<sup>B</sup> Numerical linearization parameter: uncertainty not required.

<sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

## DASY/EASY - Parameters of Probe: ES3DV2 - SN:3022

### Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) <sup>C</sup> | Relative Permittivity <sup>F</sup> | Conductivity (S/m) <sup>F</sup> | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup> (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 750                  | 41.9                               | 0.89                            | 6.54    | 6.54    | 6.54    | 0.50               | 1.39                    | ± 12.0 %  |
| 835                  | 41.5                               | 0.90                            | 6.16    | 6.16    | 6.16    | 0.40               | 1.50                    | ± 12.0 %  |
| 1750                 | 40.1                               | 1.37                            | 5.32    | 5.32    | 5.32    | 0.32               | 1.94                    | ± 12.0 %  |
| 1900                 | 40.0                               | 1.40                            | 5.07    | 5.07    | 5.07    | 0.53               | 1.39                    | ± 12.0 %  |
| 2300                 | 39.5                               | 1.67                            | 4.76    | 4.76    | 4.76    | 0.54               | 1.44                    | ± 12.0 %  |
| 2450                 | 39.2                               | 1.80                            | 4.52    | 4.52    | 4.52    | 0.58               | 1.39                    | ± 12.0 %  |
| 2600                 | 39.0                               | 1.96                            | 4.24    | 4.24    | 4.24    | 0.52               | 1.59                    | ± 12.0 %  |

<sup>C</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

<sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

<sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

## DASY/EASY - Parameters of Probe: ES3DV2 - SN:3022

### Calibration Parameter Determined in Body Tissue Simulating Media

| f (MHz) <sup>C</sup> | Relative Permittivity <sup>F</sup> | Conductivity (S/m) <sup>F</sup> | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup> (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 750                  | 55.5                               | 0.96                            | 6.12    | 6.12    | 6.12    | 0.48               | 1.36                    | ± 12.0 %  |
| 835                  | 55.2                               | 0.97                            | 5.96    | 5.96    | 5.96    | 0.57               | 1.24                    | ± 12.0 %  |
| 1750                 | 53.4                               | 1.49                            | 4.93    | 4.93    | 4.93    | 0.44               | 1.52                    | ± 12.0 %  |
| 1900                 | 53.3                               | 1.52                            | 4.67    | 4.67    | 4.67    | 0.37               | 1.86                    | ± 12.0 %  |
| 2300                 | 52.9                               | 1.81                            | 4.36    | 4.36    | 4.36    | 0.72               | 1.30                    | ± 12.0 %  |
| 2450                 | 52.7                               | 1.95                            | 4.22    | 4.22    | 4.22    | 0.80               | 1.19                    | ± 12.0 %  |
| 2600                 | 52.5                               | 2.16                            | 4.03    | 4.03    | 4.03    | 0.72               | 1.14                    | ± 12.0 %  |

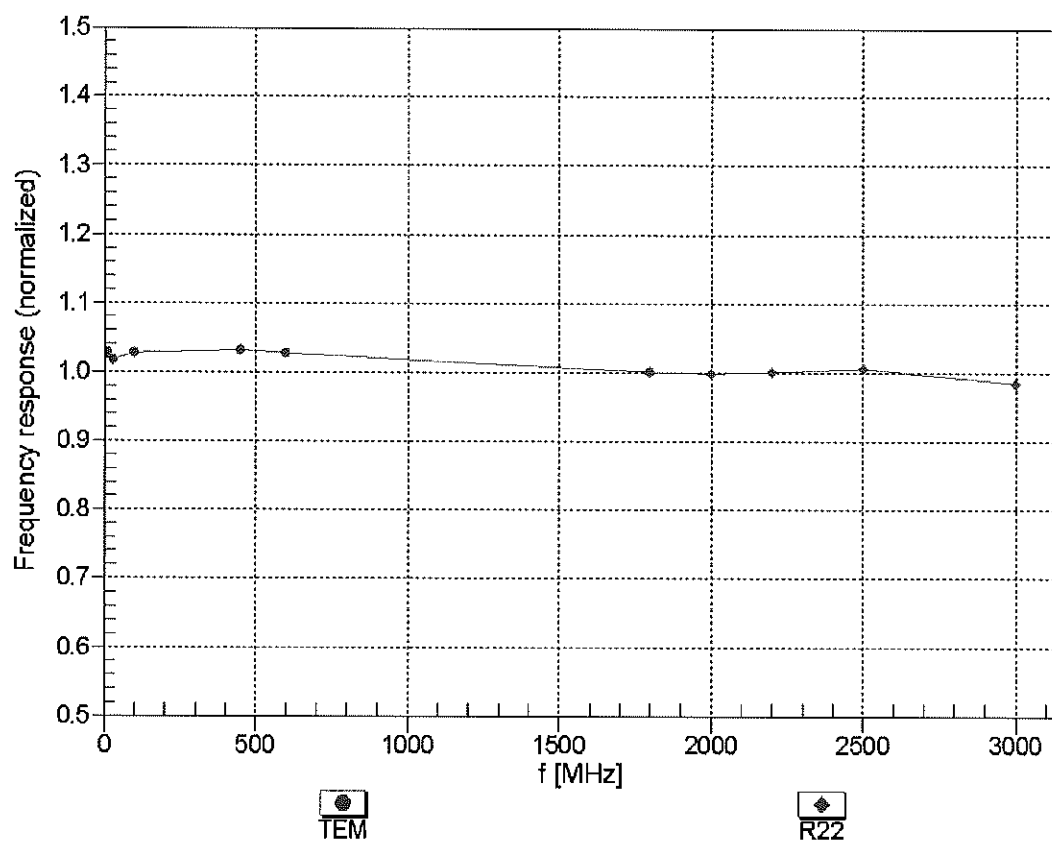
<sup>C</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

<sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

<sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

## Frequency Response of E-Field

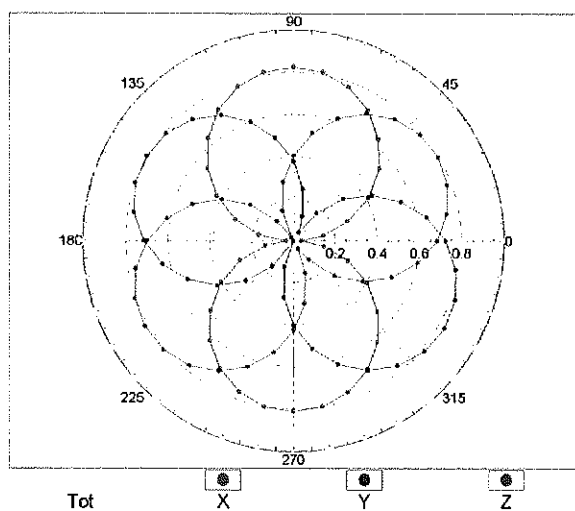
(TEM-Cell:ifi110 EXX, Waveguide: R22)



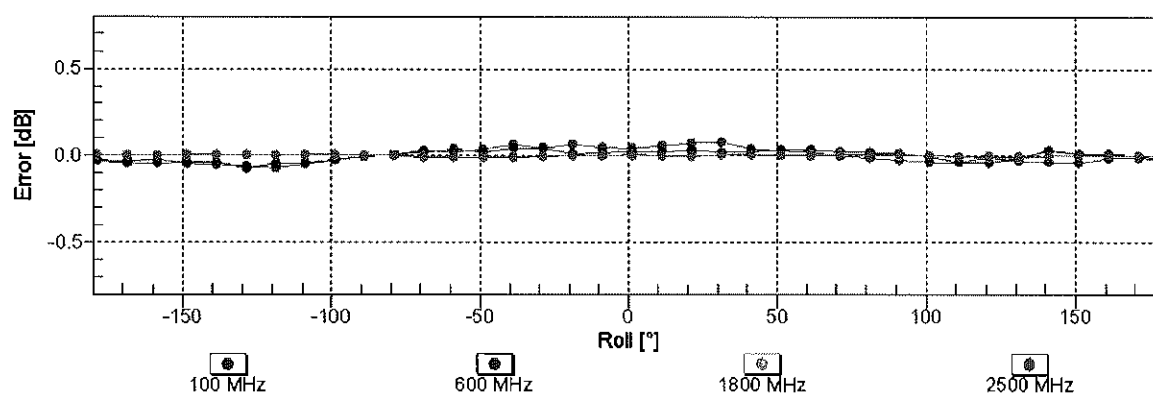
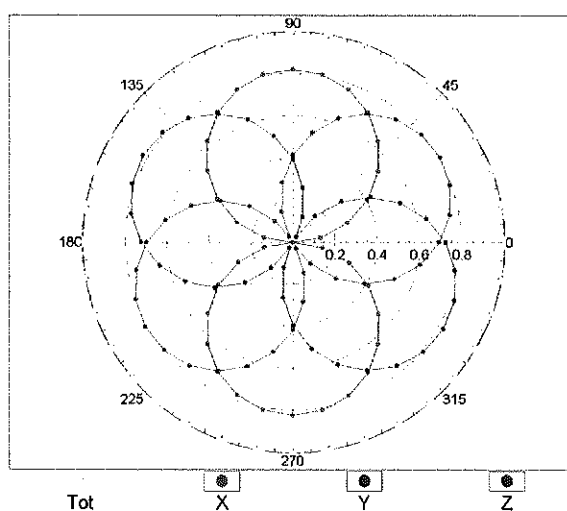
Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  ( $k=2$ )

## Receiving Pattern ( $\phi$ ), $\vartheta = 0^\circ$

f=600 MHz,TEM

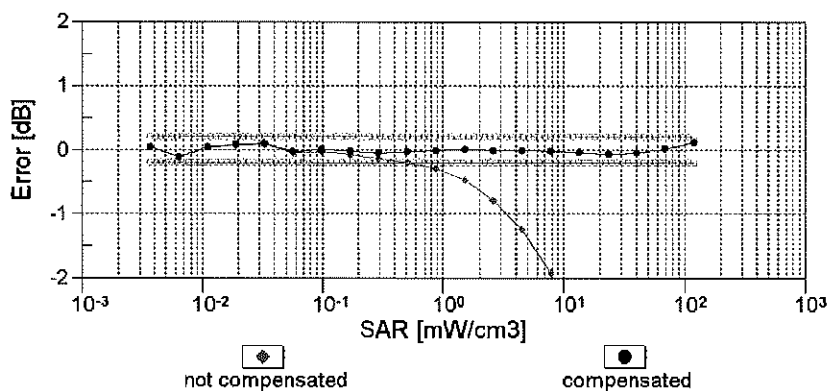
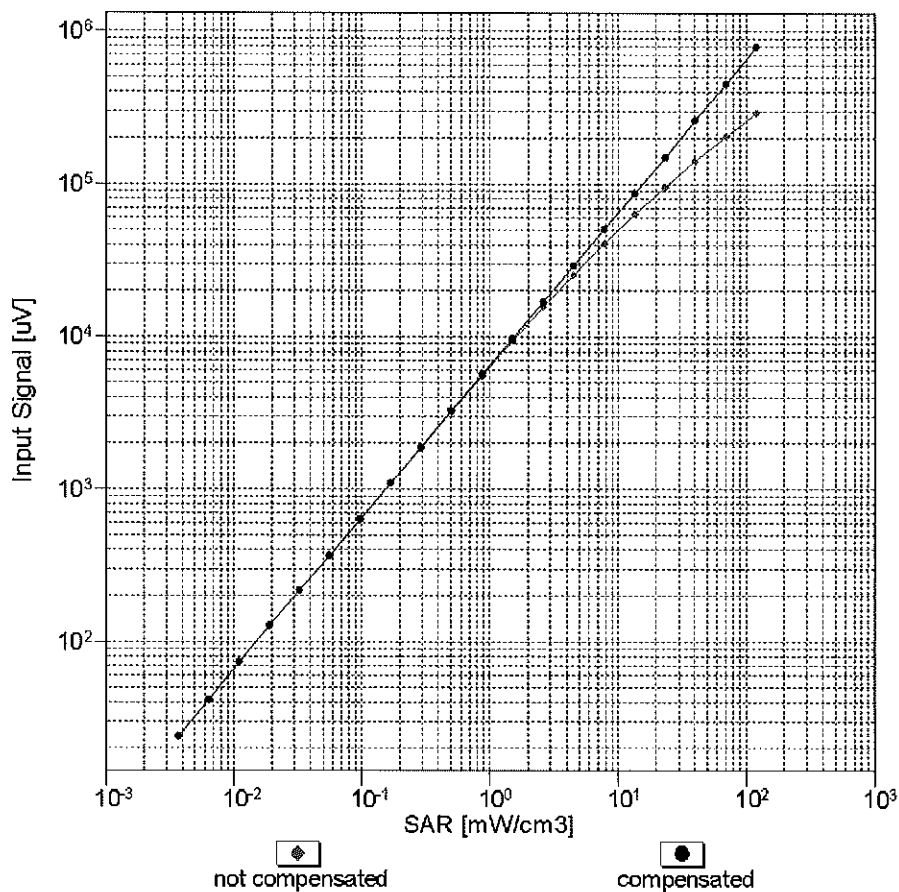


f=1800 MHz,R22



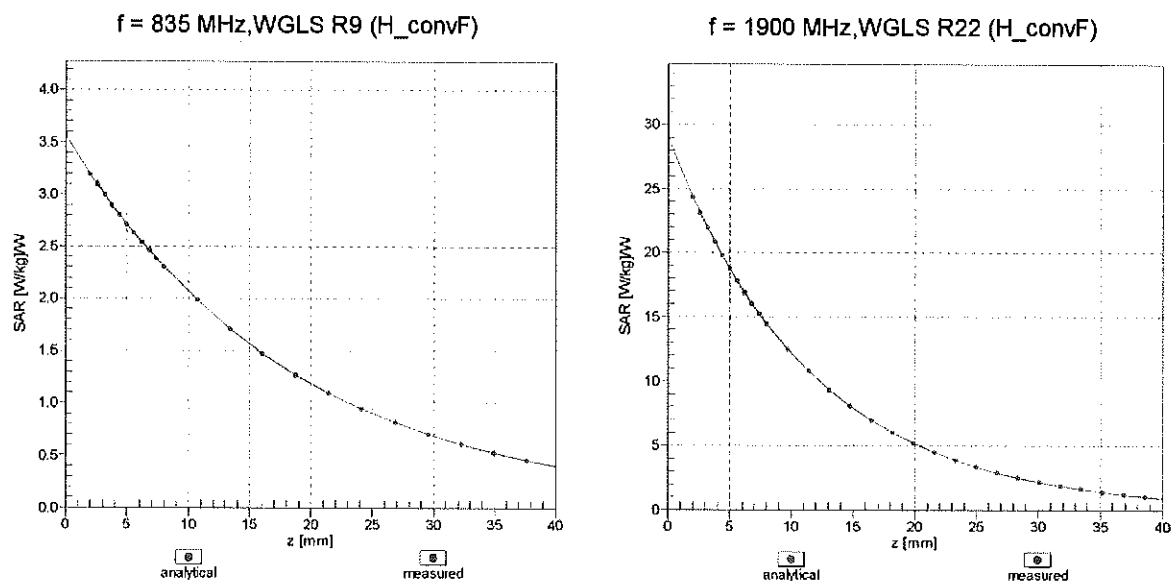
Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  ( $k=2$ )

## Dynamic Range $f(\text{SAR}_{\text{head}})$ (TEM cell, $f_{\text{eval}} = 1900 \text{ MHz}$ )



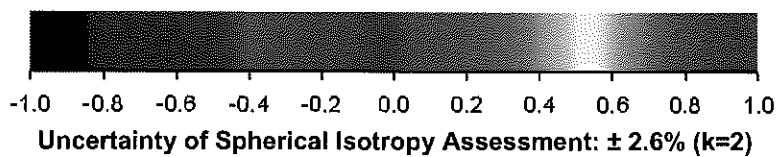
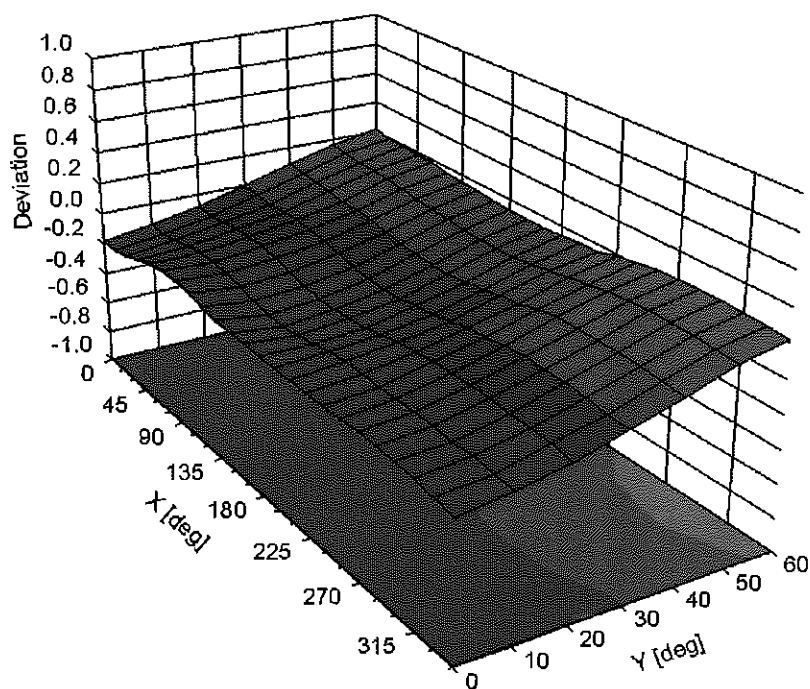
Uncertainty of Linearity Assessment:  $\pm 0.6\%$  ( $k=2$ )

## Conversion Factor Assessment



## Deviation from Isotropy in Liquid

Error ( $\phi, \theta$ ),  $f = 900 \text{ MHz}$



## DASY/EASY - Parameters of Probe: ES3DV2 - SN:3022

### Other Probe Parameters

|                                               |            |
|-----------------------------------------------|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle (°)                           | 101.3      |
| Mechanical Surface Detection Mode             | enabled    |
| Optical Surface Detection Mode                | disabled   |
| Probe Overall Length                          | 337 mm     |
| Probe Body Diameter                           | 10 mm      |
| Tip Length                                    | 10 mm      |
| Tip Diameter                                  | 4 mm       |
| Probe Tip to Sensor X Calibration Point       | 2 mm       |
| Probe Tip to Sensor Y Calibration Point       | 2 mm       |
| Probe Tip to Sensor Z Calibration Point       | 2 mm       |
| Recommended Measurement Distance from Surface | 3 mm       |

**Appendix: Modulation Calibration Parameters**

| UID           | Communication System Name                     |   | A<br>dB | B<br>dB $\mu$ V | C     | D<br>dB | VR<br>mV | Max<br>Unc <sup>E</sup><br>(k=2) |
|---------------|-----------------------------------------------|---|---------|-----------------|-------|---------|----------|----------------------------------|
| 0             | CW                                            | X | 0.00    | 0.00            | 1.00  | 0.00    | 180.7    | $\pm 3.3 \%$                     |
|               |                                               | Y | 0.00    | 0.00            | 1.00  |         | 185.0    |                                  |
|               |                                               | Z | 0.00    | 0.00            | 1.00  |         | 180.9    |                                  |
| 10010-<br>CAA | SAR Validation (Square, 100ms, 10ms)          | X | 9.12    | 80.72           | 19.72 | 10.00   | 25.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 7.78    | 78.39           | 18.16 |         | 25.0     |                                  |
|               |                                               | Z | 8.88    | 80.43           | 19.18 |         | 25.0     |                                  |
| 10011-<br>CAB | UMTS-FDD (WCDMA)                              | X | 1.13    | 69.14           | 16.23 | 0.00    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 0.94    | 65.93           | 14.05 |         | 150.0    |                                  |
|               |                                               | Z | 1.03    | 67.74           | 15.26 |         | 150.0    |                                  |
| 10012-<br>CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)      | X | 1.32    | 65.59           | 16.25 | 0.41    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 1.23    | 64.33           | 15.18 |         | 150.0    |                                  |
|               |                                               | Z | 1.28    | 65.16           | 15.80 |         | 150.0    |                                  |
| 10013-<br>CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) | X | 5.15    | 67.35           | 17.56 | 1.46    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 5.05    | 67.11           | 17.34 |         | 150.0    |                                  |
|               |                                               | Z | 5.06    | 67.35           | 17.45 |         | 150.0    |                                  |
| 10021-<br>DAC | GSM-FDD (TDMA, GMSK)                          | X | 21.12   | 96.30           | 26.79 | 9.39    | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 34.63   | 103.95          | 28.36 |         | 50.0     |                                  |
|               |                                               | Z | 29.26   | 101.54          | 27.92 |         | 50.0     |                                  |
| 10023-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0)                   | X | 18.75   | 94.15           | 26.16 | 9.57    | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 27.39   | 100.04          | 27.27 |         | 50.0     |                                  |
|               |                                               | Z | 24.24   | 98.32           | 27.00 |         | 50.0     |                                  |
| 10024-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1)                 | X | 100.00  | 119.51          | 31.22 | 6.56    | 60.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 117.40          | 29.84 |         | 60.0     |                                  |
|               |                                               | Z | 100.00  | 118.34          | 30.40 |         | 60.0     |                                  |
| 10025-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0)                   | X | 19.29   | 106.16          | 40.42 | 12.57   | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 14.92   | 99.57           | 37.85 |         | 50.0     |                                  |
|               |                                               | Z | 20.66   | 109.51          | 41.75 |         | 50.0     |                                  |
| 10026-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1)                 | X | 19.66   | 103.12          | 35.65 | 9.56    | 60.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 18.05   | 101.73          | 35.07 |         | 60.0     |                                  |
|               |                                               | Z | 20.79   | 105.41          | 36.46 |         | 60.0     |                                  |
| 10027-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2)               | X | 100.00  | 118.25          | 29.66 | 4.80    | 80.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 115.76          | 28.17 |         | 80.0     |                                  |
|               |                                               | Z | 100.00  | 117.04          | 28.87 |         | 80.0     |                                  |
| 10028-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)             | X | 100.00  | 118.29          | 28.82 | 3.55    | 100.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 115.14          | 27.08 |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 116.95          | 28.01 |         | 100.0    |                                  |
| 10029-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2)               | X | 13.53   | 94.90           | 31.74 | 7.80    | 80.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 11.99   | 92.66           | 30.82 |         | 80.0     |                                  |
|               |                                               | Z | 13.36   | 95.33           | 31.90 |         | 80.0     |                                  |
| 10030-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1)           | X | 100.00  | 117.88          | 29.84 | 5.30    | 70.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 115.45          | 28.36 |         | 70.0     |                                  |
|               |                                               | Z | 100.00  | 116.58          | 28.99 |         | 70.0     |                                  |
| 10031-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3)           | X | 100.00  | 118.97          | 27.49 | 1.88    | 100.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 112.96          | 24.59 |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 116.57          | 26.27 |         | 100.0    |                                  |

|           |                                                     |   |        |        |       |       |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10032-CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5)                 | X | 100.00 | 122.85 | 27.97 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 112.87 | 23.49 |       | 100.0 |         |
|           |                                                     | Z | 100.00 | 119.11 | 26.22 |       | 100.0 |         |
| 10033-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)           | X | 16.94  | 95.81  | 26.51 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 16.15  | 94.60  | 25.59 |       | 70.0  |         |
|           |                                                     | Z | 17.74  | 96.16  | 26.17 |       | 70.0  |         |
| 10034-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)           | X | 8.87   | 89.65  | 22.97 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 5.53   | 82.01  | 19.73 |       | 100.0 |         |
|           |                                                     | Z | 7.80   | 87.02  | 21.52 |       | 100.0 |         |
| 10035-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)           | X | 5.00   | 83.13  | 20.55 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 3.13   | 75.87  | 17.18 |       | 100.0 |         |
|           |                                                     | Z | 4.27   | 80.34  | 18.96 |       | 100.0 |         |
| 10036-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1)               | X | 20.34  | 99.02  | 27.54 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 20.03  | 98.23  | 26.74 |       | 70.0  |         |
|           |                                                     | Z | 21.83  | 99.68  | 27.27 |       | 70.0  |         |
| 10037-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3)               | X | 8.42   | 88.95  | 22.71 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 5.23   | 81.29  | 19.45 |       | 100.0 |         |
|           |                                                     | Z | 7.27   | 86.10  | 21.20 |       | 100.0 |         |
| 10038-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5)               | X | 5.22   | 84.01  | 20.94 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 3.22   | 76.47  | 17.50 |       | 100.0 |         |
|           |                                                     | Z | 4.42   | 81.08  | 19.32 |       | 100.0 |         |
| 10039-CAB | CDMA2000 (1xRTT, RC1)                               | X | 2.15   | 74.05  | 16.96 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.48   | 68.71  | 13.88 |       | 150.0 |         |
|           |                                                     | Z | 1.75   | 71.47  | 15.26 |       | 150.0 |         |
| 10042-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | X | 51.16  | 108.30 | 28.43 | 7.78  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 88.21  | 114.49 | 29.14 |       | 50.0  |         |
|           |                                                     | Z | 92.16  | 115.96 | 29.82 |       | 50.0  |         |
| 10044-CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM)                    | X | 0.00   | 110.75 | 3.44  | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.01   | 124.18 | 1.76  |       | 150.0 |         |
|           |                                                     | Z | 0.00   | 108.83 | 6.62  |       | 150.0 |         |
| 10048-CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)           | X | 11.42  | 83.38  | 24.28 | 13.80 | 25.0  | ± 9.6 % |
|           |                                                     | Y | 13.16  | 86.56  | 24.81 |       | 25.0  |         |
|           |                                                     | Z | 12.43  | 85.46  | 24.63 |       | 25.0  |         |
| 10049-CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)         | X | 13.53  | 87.91  | 24.50 | 10.79 | 40.0  | ± 9.6 % |
|           |                                                     | Y | 16.13  | 90.98  | 24.89 |       | 40.0  |         |
|           |                                                     | Z | 15.33  | 90.21  | 24.85 |       | 40.0  |         |
| 10056-CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps)                      | X | 12.94  | 87.44  | 24.76 | 9.03  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 13.62  | 88.57  | 24.69 |       | 50.0  |         |
|           |                                                     | Z | 13.86  | 88.86  | 24.90 |       | 50.0  |         |
| 10058-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)                   | X | 9.99   | 89.04  | 28.92 | 6.55  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 8.79   | 86.66  | 27.91 |       | 100.0 |         |
|           |                                                     | Z | 9.58   | 88.70  | 28.79 |       | 100.0 |         |
| 10059-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)            | X | 1.52   | 67.99  | 17.40 | 0.61  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 1.38   | 66.31  | 16.16 |       | 110.0 |         |
|           |                                                     | Z | 1.46   | 67.39  | 16.89 |       | 110.0 |         |
| 10060-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)          | X | 100.00 | 131.43 | 33.80 | 1.30  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 63.48  | 121.74 | 30.70 |       | 110.0 |         |
|           |                                                     | Z | 100.00 | 130.20 | 33.12 |       | 110.0 |         |

|           |                                                |   |       |        |       |      |       |         |
|-----------|------------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10061-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)      | X | 12.72 | 100.01 | 28.21 | 2.04 | 110.0 | ± 9.6 % |
|           |                                                | Y | 8.00  | 91.91  | 25.30 |      | 110.0 |         |
|           |                                                | Z | 11.18 | 97.82  | 27.34 |      | 110.0 |         |
| 10062-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)       | X | 4.86  | 67.08  | 16.83 | 0.49 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.76  | 66.82  | 16.60 |      | 100.0 |         |
|           |                                                | Z | 4.77  | 67.05  | 16.71 |      | 100.0 |         |
| 10063-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)       | X | 4.90  | 67.25  | 16.98 | 0.72 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.80  | 66.98  | 16.73 |      | 100.0 |         |
|           |                                                | Z | 4.81  | 67.21  | 16.85 |      | 100.0 |         |
| 10064-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)      | X | 5.23  | 67.58  | 17.24 | 0.86 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.11  | 67.30  | 17.01 |      | 100.0 |         |
|           |                                                | Z | 5.11  | 67.52  | 17.11 |      | 100.0 |         |
| 10065-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)      | X | 5.14  | 67.63  | 17.42 | 1.21 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.02  | 67.34  | 17.18 |      | 100.0 |         |
|           |                                                | Z | 5.03  | 67.57  | 17.29 |      | 100.0 |         |
| 10066-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)      | X | 5.20  | 67.78  | 17.66 | 1.46 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.07  | 67.47  | 17.41 |      | 100.0 |         |
|           |                                                | Z | 5.08  | 67.71  | 17.52 |      | 100.0 |         |
| 10067-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)      | X | 5.53  | 67.98  | 18.13 | 2.04 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.40  | 67.73  | 17.91 |      | 100.0 |         |
|           |                                                | Z | 5.42  | 67.97  | 18.03 |      | 100.0 |         |
| 10068-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)      | X | 5.67  | 68.34  | 18.51 | 2.55 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.53  | 68.01  | 18.26 |      | 100.0 |         |
|           |                                                | Z | 5.54  | 68.25  | 18.37 |      | 100.0 |         |
| 10069-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)      | X | 5.75  | 68.32  | 18.71 | 2.67 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.61  | 68.01  | 18.46 |      | 100.0 |         |
|           |                                                | Z | 5.63  | 68.27  | 18.59 |      | 100.0 |         |
| 10071-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)  | X | 5.30  | 67.61  | 17.96 | 1.99 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.20  | 67.35  | 17.74 |      | 100.0 |         |
|           |                                                | Z | 5.21  | 67.60  | 17.85 |      | 100.0 |         |
| 10072-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | X | 5.37  | 68.19  | 18.29 | 2.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.25  | 67.88  | 18.05 |      | 100.0 |         |
|           |                                                | Z | 5.27  | 68.14  | 18.18 |      | 100.0 |         |
| 10073-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | X | 5.52  | 68.58  | 18.74 | 2.83 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.38  | 68.25  | 18.48 |      | 100.0 |         |
|           |                                                | Z | 5.41  | 68.54  | 18.62 |      | 100.0 |         |
| 10074-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | X | 5.57  | 68.68  | 19.00 | 3.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.43  | 68.33  | 18.73 |      | 100.0 |         |
|           |                                                | Z | 5.47  | 68.64  | 18.88 |      | 100.0 |         |
| 10075-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | X | 5.73  | 69.19  | 19.51 | 3.82 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.57  | 68.75  | 19.20 |      | 90.0  |         |
|           |                                                | Z | 5.61  | 69.08  | 19.36 |      | 90.0  |         |
| 10076-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | X | 5.76  | 69.02  | 19.65 | 4.15 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.60  | 68.61  | 19.35 |      | 90.0  |         |
|           |                                                | Z | 5.65  | 68.96  | 19.53 |      | 90.0  |         |
| 10077-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | X | 5.80  | 69.13  | 19.76 | 4.30 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.64  | 68.71  | 19.46 |      | 90.0  |         |
|           |                                                | Z | 5.70  | 69.08  | 19.65 |      | 90.0  |         |

|           |                                                     |   |        |        |       |      |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10081-CAB | CDMA2000 (1xRTT, RC3)                               | X | 0.97   | 67.77  | 13.80 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.73   | 64.07  | 11.07 |      | 150.0 |         |
|           |                                                     | Z | 0.81   | 65.70  | 12.14 |      | 150.0 |         |
| 10082-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | X | 2.25   | 64.31  | 9.20  | 4.77 | 80.0  | ± 9.6 % |
|           |                                                     | Y | 1.88   | 62.88  | 7.97  |      | 80.0  |         |
|           |                                                     | Z | 2.02   | 63.56  | 8.52  |      | 80.0  |         |
| 10090-DAC | GPRS-FDD (TDMA, GMSK, TN 0-4)                       | X | 100.00 | 119.60 | 31.28 | 6.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 117.50 | 29.91 |      | 60.0  |         |
|           |                                                     | Z | 100.00 | 118.43 | 30.47 |      | 60.0  |         |
| 10097-CAB | UMTS-FDD (HSDPA)                                    | X | 1.89   | 68.21  | 16.12 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.73   | 66.65  | 14.94 |      | 150.0 |         |
|           |                                                     | Z | 1.81   | 67.75  | 15.61 |      | 150.0 |         |
| 10098-CAB | UMTS-FDD (HSUPA, Subtest 2)                         | X | 1.85   | 68.19  | 16.10 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.69   | 66.60  | 14.90 |      | 150.0 |         |
|           |                                                     | Z | 1.78   | 67.71  | 15.59 |      | 150.0 |         |
| 10099-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4)                       | X | 19.56  | 102.95 | 35.59 | 9.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 18.00  | 101.62 | 35.03 |      | 60.0  |         |
|           |                                                     | Z | 20.69  | 105.25 | 36.41 |      | 60.0  |         |
| 10100-CAD | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 3.30   | 71.09  | 17.05 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.01   | 69.46  | 16.11 |      | 150.0 |         |
|           |                                                     | Z | 3.13   | 70.42  | 16.66 |      | 150.0 |         |
| 10101-CAD | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 3.35   | 67.99  | 16.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.20   | 67.18  | 15.65 |      | 150.0 |         |
|           |                                                     | Z | 3.25   | 67.66  | 15.95 |      | 150.0 |         |
| 10102-CAD | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 3.45   | 67.89  | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.31   | 67.16  | 15.76 |      | 150.0 |         |
|           |                                                     | Z | 3.35   | 67.61  | 16.03 |      | 150.0 |         |
| 10103-CAD | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 8.68   | 78.34  | 21.41 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 8.39   | 78.12  | 21.24 |      | 65.0  |         |
|           |                                                     | Z | 8.61   | 78.63  | 21.46 |      | 65.0  |         |
| 10104-CAD | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 8.59   | 76.98  | 21.71 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 8.24   | 76.55  | 21.45 |      | 65.0  |         |
|           |                                                     | Z | 8.42   | 77.02  | 21.66 |      | 65.0  |         |
| 10105-CAD | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 8.27   | 76.21  | 21.68 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 7.96   | 75.85  | 21.44 |      | 65.0  |         |
|           |                                                     | Z | 8.08   | 76.18  | 21.59 |      | 65.0  |         |
| 10108-CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)            | X | 2.90   | 70.34  | 16.91 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.64   | 68.76  | 15.95 |      | 150.0 |         |
|           |                                                     | Z | 2.74   | 69.70  | 16.50 |      | 150.0 |         |
| 10109-CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)          | X | 3.01   | 67.84  | 16.14 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.85   | 66.97  | 15.51 |      | 150.0 |         |
|           |                                                     | Z | 2.90   | 67.50  | 15.84 |      | 150.0 |         |
| 10110-CAE | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)             | X | 2.38   | 69.52  | 16.61 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.14   | 67.85  | 15.51 |      | 150.0 |         |
|           |                                                     | Z | 2.23   | 68.86  | 16.13 |      | 150.0 |         |
| 10111-CAE | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)           | X | 2.71   | 68.52  | 16.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.53   | 67.49  | 15.63 |      | 150.0 |         |
|           |                                                     | Z | 2.60   | 68.20  | 16.05 |      | 150.0 |         |

|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10112-CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)     | X | 3.13 | 67.76 | 16.17 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.98 | 66.98 | 15.59 |      | 150.0 |         |
|           |                                                | Z | 3.02 | 67.48 | 15.89 |      | 150.0 |         |
| 10113-CAE | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)      | X | 2.86 | 68.59 | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.69 | 67.66 | 15.79 |      | 150.0 |         |
|           |                                                | Z | 2.75 | 68.32 | 16.17 |      | 150.0 |         |
| 10114-CAC | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)  | X | 5.22 | 67.41 | 16.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.16 | 67.20 | 16.42 |      | 150.0 |         |
|           |                                                | Z | 5.15 | 67.40 | 16.52 |      | 150.0 |         |
| 10115-CAC | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)  | X | 5.59 | 67.76 | 16.79 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.47 | 67.41 | 16.54 |      | 150.0 |         |
|           |                                                | Z | 5.46 | 67.57 | 16.61 |      | 150.0 |         |
| 10116-CAC | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | X | 5.35 | 67.70 | 16.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.27 | 67.44 | 16.47 |      | 150.0 |         |
|           |                                                | Z | 5.26 | 67.61 | 16.55 |      | 150.0 |         |
| 10117-CAC | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)       | X | 5.21 | 67.36 | 16.59 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.12 | 67.05 | 16.36 |      | 150.0 |         |
|           |                                                | Z | 5.11 | 67.24 | 16.46 |      | 150.0 |         |
| 10118-CAC | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)       | X | 5.68 | 67.99 | 16.91 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.59 | 67.74 | 16.72 |      | 150.0 |         |
|           |                                                | Z | 5.55 | 67.82 | 16.75 |      | 150.0 |         |
| 10119-CAC | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)      | X | 5.33 | 67.64 | 16.65 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.25 | 67.40 | 16.46 |      | 150.0 |         |
|           |                                                | Z | 5.23 | 67.56 | 16.54 |      | 150.0 |         |
| 10140-CAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)     | X | 3.49 | 67.90 | 16.20 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.35 | 67.17 | 15.68 |      | 150.0 |         |
|           |                                                | Z | 3.38 | 67.62 | 15.95 |      | 150.0 |         |
| 10141-CAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)     | X | 3.61 | 67.94 | 16.34 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.47 | 67.27 | 15.86 |      | 150.0 |         |
|           |                                                | Z | 3.51 | 67.70 | 16.12 |      | 150.0 |         |
| 10142-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)        | X | 2.16 | 69.56 | 16.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.89 | 67.62 | 15.05 |      | 150.0 |         |
|           |                                                | Z | 1.99 | 68.80 | 15.75 |      | 150.0 |         |
| 10143-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)      | X | 2.59 | 69.29 | 16.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.35 | 67.87 | 15.16 |      | 150.0 |         |
|           |                                                | Z | 2.44 | 68.82 | 15.68 |      | 150.0 |         |
| 10144-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)      | X | 2.39 | 67.25 | 14.80 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.18 | 65.99 | 13.75 |      | 150.0 |         |
|           |                                                | Z | 2.24 | 66.71 | 14.17 |      | 150.0 |         |
| 10145-CAE | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)      | X | 1.43 | 66.95 | 13.27 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.14 | 64.01 | 11.00 |      | 150.0 |         |
|           |                                                | Z | 1.19 | 64.93 | 11.55 |      | 150.0 |         |
| 10146-CAE | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)    | X | 2.88 | 71.44 | 15.09 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.19 | 68.05 | 12.99 |      | 150.0 |         |
|           |                                                | Z | 2.00 | 66.89 | 12.10 |      | 150.0 |         |
| 10147-CAE | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)    | X | 3.73 | 75.07 | 16.77 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.71 | 70.86 | 14.41 |      | 150.0 |         |
|           |                                                | Z | 2.36 | 69.01 | 13.24 |      | 150.0 |         |

|           |                                            |   |      |       |       |      |       |         |
|-----------|--------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10149-CAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 3.02 | 67.89 | 16.19 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.86 | 67.02 | 15.55 |      | 150.0 |         |
|           |                                            | Z | 2.91 | 67.56 | 15.88 |      | 150.0 |         |
| 10150-CAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 3.14 | 67.81 | 16.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.99 | 67.03 | 15.62 |      | 150.0 |         |
|           |                                            | Z | 3.03 | 67.53 | 15.93 |      | 150.0 |         |
| 10151-CAD | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)    | X | 9.24 | 80.70 | 22.42 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 8.94 | 80.53 | 22.24 |      | 65.0  |         |
|           |                                            | Z | 9.27 | 81.24 | 22.54 |      | 65.0  |         |
| 10152-CAD | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 8.24 | 77.24 | 21.58 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 7.84 | 76.70 | 21.22 |      | 65.0  |         |
|           |                                            | Z | 8.05 | 77.25 | 21.46 |      | 65.0  |         |
| 10153-CAD | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 8.60 | 77.96 | 22.20 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 8.27 | 77.61 | 21.94 |      | 65.0  |         |
|           |                                            | Z | 8.46 | 78.10 | 22.14 |      | 65.0  |         |
| 10154-CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 2.43 | 69.95 | 16.88 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.18 | 68.21 | 15.75 |      | 150.0 |         |
|           |                                            | Z | 2.27 | 69.24 | 16.37 |      | 150.0 |         |
| 10155-CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 2.71 | 68.53 | 16.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.53 | 67.50 | 15.65 |      | 150.0 |         |
|           |                                            | Z | 2.60 | 68.21 | 16.06 |      | 150.0 |         |
| 10156-CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 2.02 | 69.83 | 16.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 1.73 | 67.53 | 14.74 |      | 150.0 |         |
|           |                                            | Z | 1.84 | 68.84 | 15.51 |      | 150.0 |         |
| 10157-CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 2.24 | 67.95 | 14.94 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 1.99 | 66.32 | 13.65 |      | 150.0 |         |
|           |                                            | Z | 2.07 | 67.20 | 14.15 |      | 150.0 |         |
| 10158-CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 2.87 | 68.64 | 16.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.69 | 67.71 | 15.83 |      | 150.0 |         |
|           |                                            | Z | 2.75 | 68.38 | 16.22 |      | 150.0 |         |
| 10159-CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 2.35 | 68.36 | 15.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.09 | 66.69 | 13.90 |      | 150.0 |         |
|           |                                            | Z | 2.17 | 67.60 | 14.40 |      | 150.0 |         |
| 10160-CAD | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)    | X | 2.90 | 69.35 | 16.70 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.71 | 68.24 | 15.94 |      | 150.0 |         |
|           |                                            | Z | 2.77 | 68.92 | 16.36 |      | 150.0 |         |
| 10161-CAD | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 3.03 | 67.73 | 16.15 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.88 | 66.94 | 15.54 |      | 150.0 |         |
|           |                                            | Z | 2.92 | 67.46 | 15.85 |      | 150.0 |         |
| 10162-CAD | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 3.14 | 67.82 | 16.23 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.99 | 67.08 | 15.65 |      | 150.0 |         |
|           |                                            | Z | 3.03 | 67.60 | 15.96 |      | 150.0 |         |
| 10166-CAE | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 3.79 | 70.15 | 19.63 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.61 | 69.64 | 19.37 |      | 150.0 |         |
|           |                                            | Z | 3.59 | 69.77 | 19.29 |      | 150.0 |         |
| 10167-CAE | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 4.70 | 73.05 | 20.10 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.36 | 72.33 | 19.76 |      | 150.0 |         |
|           |                                            | Z | 4.38 | 72.59 | 19.72 |      | 150.0 |         |

|           |                                            |   |       |        |       |      |       |         |
|-----------|--------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10168-CAE | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 5.13  | 74.98  | 21.26 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.81  | 74.54  | 21.08 |      | 150.0 |         |
|           |                                            | Z | 4.81  | 74.66  | 20.96 |      | 150.0 |         |
| 10169-CAD | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 3.24  | 70.32  | 19.77 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.95  | 68.97  | 19.14 |      | 150.0 |         |
|           |                                            | Z | 2.96  | 69.16  | 19.07 |      | 150.0 |         |
| 10170-CAD | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 4.47  | 76.14  | 21.98 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.92  | 74.50  | 21.37 |      | 150.0 |         |
|           |                                            | Z | 3.95  | 74.66  | 21.22 |      | 150.0 |         |
| 10171-AAD | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 3.75  | 72.35  | 19.45 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.27  | 70.62  | 18.68 |      | 150.0 |         |
|           |                                            | Z | 3.32  | 71.00  | 18.68 |      | 150.0 |         |
| 10172-CAD | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 25.61 | 107.79 | 33.43 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 22.14 | 106.45 | 33.18 |      | 65.0  |         |
|           |                                            | Z | 23.36 | 107.08 | 33.16 |      | 65.0  |         |
| 10173-CAD | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 28.53 | 105.12 | 30.95 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 32.15 | 108.79 | 32.08 |      | 65.0  |         |
|           |                                            | Z | 30.18 | 106.96 | 31.30 |      | 65.0  |         |
| 10174-CAD | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 22.70 | 99.68  | 28.85 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 24.46 | 102.42 | 29.70 |      | 65.0  |         |
|           |                                            | Z | 22.92 | 100.73 | 28.97 |      | 65.0  |         |
| 10175-CAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)      | X | 3.21  | 70.03  | 19.54 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.92  | 68.68  | 18.89 |      | 150.0 |         |
|           |                                            | Z | 2.93  | 68.89  | 18.85 |      | 150.0 |         |
| 10176-CAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)    | X | 4.48  | 76.16  | 21.99 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.92  | 74.53  | 21.39 |      | 150.0 |         |
|           |                                            | Z | 3.95  | 74.68  | 21.24 |      | 150.0 |         |
| 10177-CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       | X | 3.23  | 70.18  | 19.63 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.94  | 68.82  | 18.99 |      | 150.0 |         |
|           |                                            | Z | 2.95  | 69.02  | 18.93 |      | 150.0 |         |
| 10178-CAE | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)     | X | 4.43  | 75.93  | 21.86 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.88  | 74.30  | 21.26 |      | 150.0 |         |
|           |                                            | Z | 3.92  | 74.49  | 21.13 |      | 150.0 |         |
| 10179-CAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)    | X | 4.09  | 74.17  | 20.60 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.57  | 72.47  | 19.91 |      | 150.0 |         |
|           |                                            | Z | 3.61  | 72.76  | 19.84 |      | 150.0 |         |
| 10180-CAE | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)     | X | 3.74  | 72.28  | 19.40 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.26  | 70.55  | 18.63 |      | 150.0 |         |
|           |                                            | Z | 3.31  | 70.94  | 18.64 |      | 150.0 |         |
| 10181-CAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 3.23  | 70.16  | 19.62 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.94  | 68.81  | 18.98 |      | 150.0 |         |
|           |                                            | Z | 2.94  | 69.01  | 18.92 |      | 150.0 |         |
| 10182-CAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)    | X | 4.42  | 75.91  | 21.85 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.87  | 74.28  | 21.25 |      | 150.0 |         |
|           |                                            | Z | 3.91  | 74.47  | 21.12 |      | 150.0 |         |
| 10183-AAC | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 3.73  | 72.25  | 19.39 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.25  | 70.53  | 18.62 |      | 150.0 |         |
|           |                                            | Z | 3.31  | 70.92  | 18.63 |      | 150.0 |         |

|           |                                               |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10184-CAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)          | X | 3.24 | 70.20 | 19.64 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 2.95 | 68.85 | 19.00 |      | 150.0 |         |
|           |                                               | Z | 2.95 | 69.05 | 18.94 |      | 150.0 |         |
| 10185-CAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)        | X | 4.44 | 75.97 | 21.89 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.89 | 74.35 | 21.29 |      | 150.0 |         |
|           |                                               | Z | 3.93 | 74.54 | 21.15 |      | 150.0 |         |
| 10186-AAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)        | X | 3.75 | 72.32 | 19.42 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.27 | 70.59 | 18.65 |      | 150.0 |         |
|           |                                               | Z | 3.32 | 70.99 | 18.66 |      | 150.0 |         |
| 10187-CAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)        | X | 3.25 | 70.25 | 19.70 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 2.96 | 68.90 | 19.06 |      | 150.0 |         |
|           |                                               | Z | 2.96 | 69.09 | 19.00 |      | 150.0 |         |
| 10188-CAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)      | X | 4.58 | 76.60 | 22.24 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.01 | 74.99 | 21.66 |      | 150.0 |         |
|           |                                               | Z | 4.04 | 75.11 | 21.49 |      | 150.0 |         |
| 10189-AAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)      | X | 3.83 | 72.73 | 19.68 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.34 | 71.00 | 18.93 |      | 150.0 |         |
|           |                                               | Z | 3.39 | 71.37 | 18.92 |      | 150.0 |         |
| 10193-CAC | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)  | X | 4.62 | 66.80 | 16.33 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.53 | 66.52 | 16.07 |      | 150.0 |         |
|           |                                               | Z | 4.53 | 66.76 | 16.19 |      | 150.0 |         |
| 10194-CAC | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | X | 4.81 | 67.15 | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.70 | 66.84 | 16.20 |      | 150.0 |         |
|           |                                               | Z | 4.71 | 67.08 | 16.32 |      | 150.0 |         |
| 10195-CAC | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | X | 4.85 | 67.17 | 16.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.75 | 66.88 | 16.22 |      | 150.0 |         |
|           |                                               | Z | 4.75 | 67.11 | 16.34 |      | 150.0 |         |
| 10196-CAC | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)       | X | 4.64 | 66.89 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.53 | 66.59 | 16.09 |      | 150.0 |         |
|           |                                               | Z | 4.54 | 66.82 | 16.21 |      | 150.0 |         |
| 10197-CAC | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)      | X | 4.83 | 67.17 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.72 | 66.87 | 16.21 |      | 150.0 |         |
|           |                                               | Z | 4.72 | 67.10 | 16.33 |      | 150.0 |         |
| 10198-CAC | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)      | X | 4.86 | 67.19 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.75 | 66.90 | 16.23 |      | 150.0 |         |
|           |                                               | Z | 4.75 | 67.13 | 16.35 |      | 150.0 |         |
| 10219-CAC | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)       | X | 4.58 | 66.90 | 16.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.48 | 66.59 | 16.05 |      | 150.0 |         |
|           |                                               | Z | 4.49 | 66.83 | 16.17 |      | 150.0 |         |
| 10220-CAC | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)    | X | 4.82 | 67.15 | 16.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.71 | 66.84 | 16.21 |      | 150.0 |         |
|           |                                               | Z | 4.71 | 67.07 | 16.32 |      | 150.0 |         |
| 10221-CAC | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)    | X | 4.86 | 67.12 | 16.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.76 | 66.83 | 16.22 |      | 150.0 |         |
|           |                                               | Z | 4.76 | 67.06 | 16.33 |      | 150.0 |         |
| 10222-CAC | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)        | X | 5.19 | 67.37 | 16.59 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.09 | 67.05 | 16.35 |      | 150.0 |         |
|           |                                               | Z | 5.09 | 67.25 | 16.45 |      | 150.0 |         |

|           |                                           |   |       |        |       |      |       |         |
|-----------|-------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10223-CAC | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)  | X | 5.52  | 67.63  | 16.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.42  | 67.33  | 16.53 |      | 150.0 |         |
|           |                                           | Z | 5.40  | 67.49  | 16.60 |      | 150.0 |         |
| 10224-CAC | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) | X | 5.23  | 67.46  | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.14  | 67.16  | 16.34 |      | 150.0 |         |
|           |                                           | Z | 5.13  | 67.36  | 16.43 |      | 150.0 |         |
| 10225-CAB | UMTS-FDD (HSPA+)                          | X | 2.89  | 66.40  | 15.64 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 2.77  | 65.79  | 15.06 |      | 150.0 |         |
|           |                                           | Z | 2.80  | 66.23  | 15.32 |      | 150.0 |         |
| 10226-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  | X | 30.12 | 106.23 | 31.36 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 34.82 | 110.42 | 32.62 |      | 65.0  |         |
|           |                                           | Z | 32.27 | 108.32 | 31.77 |      | 65.0  |         |
| 10227-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)  | X | 24.97 | 101.48 | 29.46 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 29.42 | 105.79 | 30.75 |      | 65.0  |         |
|           |                                           | Z | 27.01 | 103.63 | 29.87 |      | 65.0  |         |
| 10228-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)    | X | 29.67 | 111.13 | 34.49 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 27.16 | 110.89 | 34.56 |      | 65.0  |         |
|           |                                           | Z | 28.51 | 111.32 | 34.46 |      | 65.0  |         |
| 10229-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)    | X | 28.56 | 105.12 | 30.96 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 32.23 | 108.82 | 32.10 |      | 65.0  |         |
|           |                                           | Z | 30.23 | 106.98 | 31.31 |      | 65.0  |         |
| 10230-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)    | X | 23.87 | 100.59 | 29.13 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 27.48 | 104.47 | 30.31 |      | 65.0  |         |
|           |                                           | Z | 25.51 | 102.53 | 29.49 |      | 65.0  |         |
| 10231-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)      | X | 28.15 | 109.97 | 34.08 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 25.42 | 109.44 | 34.06 |      | 65.0  |         |
|           |                                           | Z | 26.84 | 110.01 | 34.01 |      | 65.0  |         |
| 10232-CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)    | X | 28.55 | 105.12 | 30.96 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 32.22 | 108.83 | 32.10 |      | 65.0  |         |
|           |                                           | Z | 30.23 | 106.99 | 31.32 |      | 65.0  |         |
| 10233-CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)    | X | 23.88 | 100.61 | 29.14 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 27.47 | 104.47 | 30.31 |      | 65.0  |         |
|           |                                           | Z | 25.50 | 102.54 | 29.49 |      | 65.0  |         |
| 10234-CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)      | X | 26.72 | 108.74 | 33.63 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 23.94 | 108.04 | 33.55 |      | 65.0  |         |
|           |                                           | Z | 25.35 | 108.68 | 33.52 |      | 65.0  |         |
| 10235-CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)   | X | 28.64 | 105.19 | 30.98 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 32.35 | 108.91 | 32.12 |      | 65.0  |         |
|           |                                           | Z | 30.34 | 107.07 | 31.34 |      | 65.0  |         |
| 10236-CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   | X | 24.09 | 100.74 | 29.17 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 27.77 | 104.64 | 30.35 |      | 65.0  |         |
|           |                                           | Z | 25.76 | 102.69 | 29.53 |      | 65.0  |         |
| 10237-CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)     | X | 28.42 | 110.18 | 34.15 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 25.64 | 109.64 | 34.12 |      | 65.0  |         |
|           |                                           | Z | 27.09 | 110.23 | 34.07 |      | 65.0  |         |
| 10238-CAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   | X | 28.55 | 105.14 | 30.97 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 32.21 | 108.84 | 32.10 |      | 65.0  |         |
|           |                                           | Z | 30.22 | 107.00 | 31.32 |      | 65.0  |         |

|           |                                            |   |       |        |       |      |      |         |
|-----------|--------------------------------------------|---|-------|--------|-------|------|------|---------|
| 10239-CAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 23.87 | 100.62 | 29.14 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 27.45 | 104.48 | 30.31 |      | 65.0 |         |
|           |                                            | Z | 25.49 | 102.55 | 29.50 |      | 65.0 |         |
| 10240-CAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 28.32 | 110.12 | 34.13 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 25.54 | 109.58 | 34.10 |      | 65.0 |         |
|           |                                            | Z | 27.00 | 110.17 | 34.06 |      | 65.0 |         |
| 10241-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 12.01 | 86.44  | 27.50 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 11.32 | 86.10  | 27.36 |      | 65.0 |         |
|           |                                            | Z | 11.85 | 87.07  | 27.59 |      | 65.0 |         |
| 10242-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 11.22 | 84.92  | 26.83 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 10.54 | 84.52  | 26.66 |      | 65.0 |         |
|           |                                            | Z | 10.96 | 85.36  | 26.86 |      | 65.0 |         |
| 10243-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 9.36  | 82.71  | 26.86 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.68  | 81.81  | 26.47 |      | 65.0 |         |
|           |                                            | Z | 9.04  | 82.81  | 26.78 |      | 65.0 |         |
| 10244-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   | X | 9.20  | 80.16  | 20.97 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.90  | 79.99  | 20.57 |      | 65.0 |         |
|           |                                            | Z | 8.43  | 78.77  | 19.85 |      | 65.0 |         |
| 10245-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   | X | 9.05  | 79.64  | 20.72 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.67  | 79.32  | 20.26 |      | 65.0 |         |
|           |                                            | Z | 8.23  | 78.16  | 19.56 |      | 65.0 |         |
| 10246-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)     | X | 9.25  | 82.90  | 21.89 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.35  | 81.34  | 20.87 |      | 65.0 |         |
|           |                                            | Z | 8.83  | 82.25  | 21.22 |      | 65.0 |         |
| 10247-CAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 7.67  | 77.68  | 20.47 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.14  | 76.72  | 19.73 |      | 65.0 |         |
|           |                                            | Z | 7.35  | 77.20  | 19.90 |      | 65.0 |         |
| 10248-CAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 7.65  | 77.19  | 20.27 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.09  | 76.18  | 19.49 |      | 65.0 |         |
|           |                                            | Z | 7.28  | 76.65  | 19.67 |      | 65.0 |         |
| 10249-CAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 10.28 | 84.91  | 23.29 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 9.73  | 84.22  | 22.70 |      | 65.0 |         |
|           |                                            | Z | 10.33 | 85.25  | 23.10 |      | 65.0 |         |
| 10250-CAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 8.56  | 79.63  | 22.54 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.21  | 79.30  | 22.21 |      | 65.0 |         |
|           |                                            | Z | 8.43  | 79.79  | 22.40 |      | 65.0 |         |
| 10251-CAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 8.13  | 77.62  | 21.46 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.72  | 77.06  | 21.01 |      | 65.0 |         |
|           |                                            | Z | 7.94  | 77.62  | 21.25 |      | 65.0 |         |
| 10252-CAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 10.04 | 83.94  | 23.64 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 9.73  | 83.79  | 23.39 |      | 65.0 |         |
|           |                                            | Z | 10.22 | 84.72  | 23.77 |      | 65.0 |         |
| 10253-CAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 8.03  | 76.66  | 21.37 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.66  | 76.16  | 21.00 |      | 65.0 |         |
|           |                                            | Z | 7.86  | 76.71  | 21.24 |      | 65.0 |         |
| 10254-CAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 8.40  | 77.39  | 21.95 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.07  | 77.03  | 21.65 |      | 65.0 |         |
|           |                                            | Z | 8.26  | 77.52  | 21.85 |      | 65.0 |         |

|           |                                             |   |       |       |       |      |      |         |
|-----------|---------------------------------------------|---|-------|-------|-------|------|------|---------|
| 10255-CAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)     | X | 8.96  | 80.36 | 22.51 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.65  | 80.17 | 22.31 |      | 65.0 |         |
|           |                                             | Z | 8.98  | 80.90 | 22.62 |      | 65.0 |         |
| 10256-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | X | 8.08  | 77.70 | 19.21 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.41  | 76.61 | 18.34 |      | 65.0 |         |
|           |                                             | Z | 6.97  | 75.37 | 17.59 |      | 65.0 |         |
| 10257-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 7.88  | 76.96 | 18.83 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.14  | 75.71 | 17.88 |      | 65.0 |         |
|           |                                             | Z | 6.75  | 74.57 | 17.17 |      | 65.0 |         |
| 10258-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   | X | 7.78  | 79.64 | 20.06 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.62  | 77.19 | 18.57 |      | 65.0 |         |
|           |                                             | Z | 6.94  | 77.88 | 18.85 |      | 65.0 |         |
| 10259-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   | X | 8.02  | 78.38 | 21.20 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.56  | 77.67 | 20.62 |      | 65.0 |         |
|           |                                             | Z | 7.78  | 78.17 | 20.80 |      | 65.0 |         |
| 10260-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   | X | 8.03  | 78.09 | 21.10 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.56  | 77.37 | 20.51 |      | 65.0 |         |
|           |                                             | Z | 7.76  | 77.83 | 20.68 |      | 65.0 |         |
| 10261-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)     | X | 9.78  | 83.86 | 23.23 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 9.31  | 83.32 | 22.75 |      | 65.0 |         |
|           |                                             | Z | 9.82  | 84.29 | 23.13 |      | 65.0 |         |
| 10262-CAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   | X | 8.55  | 79.59 | 22.50 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.20  | 79.24 | 22.17 |      | 65.0 |         |
|           |                                             | Z | 8.42  | 79.74 | 22.36 |      | 65.0 |         |
| 10263-CAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   | X | 8.12  | 77.61 | 21.45 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.71  | 77.05 | 21.01 |      | 65.0 |         |
|           |                                             | Z | 7.93  | 77.61 | 21.24 |      | 65.0 |         |
| 10264-CAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)     | X | 9.97  | 83.80 | 23.57 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 9.64  | 83.61 | 23.31 |      | 65.0 |         |
|           |                                             | Z | 10.14 | 84.55 | 23.69 |      | 65.0 |         |
| 10265-CAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)  | X | 8.24  | 77.24 | 21.58 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.84  | 76.71 | 21.22 |      | 65.0 |         |
|           |                                             | Z | 8.05  | 77.25 | 21.47 |      | 65.0 |         |
| 10266-CAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)  | X | 8.60  | 77.95 | 22.20 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.26  | 77.60 | 21.93 |      | 65.0 |         |
|           |                                             | Z | 8.45  | 78.09 | 22.14 |      | 65.0 |         |
| 10267-CAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)    | X | 9.23  | 80.67 | 22.41 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.93  | 80.49 | 22.22 |      | 65.0 |         |
|           |                                             | Z | 9.26  | 81.21 | 22.53 |      | 65.0 |         |
| 10268-CAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)  | X | 8.68  | 76.70 | 21.72 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.35  | 76.33 | 21.48 |      | 65.0 |         |
|           |                                             | Z | 8.51  | 76.76 | 21.67 |      | 65.0 |         |
| 10269-CAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)  | X | 8.61  | 76.29 | 21.63 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.29  | 75.93 | 21.38 |      | 65.0 |         |
|           |                                             | Z | 8.44  | 76.36 | 21.57 |      | 65.0 |         |
| 10270-CAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)    | X | 8.72  | 77.95 | 21.49 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.44  | 77.75 | 21.34 |      | 65.0 |         |
|           |                                             | Z | 8.65  | 78.26 | 21.56 |      | 65.0 |         |

|           |                                                                    |   |       |       |       |      |       |         |
|-----------|--------------------------------------------------------------------|---|-------|-------|-------|------|-------|---------|
| 10274-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)                          | X | 2.65  | 66.73 | 15.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.53  | 66.00 | 14.87 |      | 150.0 |         |
|           |                                                                    | Z | 2.58  | 66.59 | 15.22 |      | 150.0 |         |
| 10275-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)                           | X | 1.72  | 68.93 | 16.16 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.51  | 66.78 | 14.69 |      | 150.0 |         |
|           |                                                                    | Z | 1.61  | 68.10 | 15.52 |      | 150.0 |         |
| 10277-CAA | PHS (QPSK)                                                         | X | 5.72  | 69.80 | 14.27 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 4.91  | 67.88 | 12.66 |      | 50.0  |         |
|           |                                                                    | Z | 5.15  | 68.54 | 13.15 |      | 50.0  |         |
| 10278-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.5)                                 | X | 8.85  | 78.92 | 20.42 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 7.98  | 77.31 | 19.14 |      | 50.0  |         |
|           |                                                                    | Z | 8.11  | 77.47 | 19.29 |      | 50.0  |         |
| 10279-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.38)                                | X | 8.99  | 79.11 | 20.50 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 8.10  | 77.48 | 19.23 |      | 50.0  |         |
|           |                                                                    | Z | 8.23  | 77.64 | 19.38 |      | 50.0  |         |
| 10290-AAB | CDMA2000, RC1, SO55, Full Rate                                     | X | 1.69  | 70.53 | 15.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.25  | 66.50 | 12.56 |      | 150.0 |         |
|           |                                                                    | Z | 1.40  | 68.36 | 13.59 |      | 150.0 |         |
| 10291-AAB | CDMA2000, RC3, SO55, Full Rate                                     | X | 0.95  | 67.48 | 13.64 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.72  | 63.92 | 10.97 |      | 150.0 |         |
|           |                                                                    | Z | 0.79  | 65.48 | 12.01 |      | 150.0 |         |
| 10292-AAB | CDMA2000, RC3, SO32, Full Rate                                     | X | 1.29  | 72.80 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.83  | 66.41 | 12.61 |      | 150.0 |         |
|           |                                                                    | Z | 1.02  | 69.60 | 14.38 |      | 150.0 |         |
| 10293-AAB | CDMA2000, RC3, SO3, Full Rate                                      | X | 2.10  | 80.21 | 19.93 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.10  | 70.20 | 14.87 |      | 150.0 |         |
|           |                                                                    | Z | 1.60  | 75.99 | 17.57 |      | 150.0 |         |
| 10295-AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr.                              | X | 11.30 | 84.68 | 24.49 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 11.80 | 85.70 | 24.41 |      | 50.0  |         |
|           |                                                                    | Z | 11.89 | 85.73 | 24.46 |      | 50.0  |         |
| 10297-AAC | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)                            | X | 2.91  | 70.44 | 16.97 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.65  | 68.85 | 16.01 |      | 150.0 |         |
|           |                                                                    | Z | 2.75  | 69.79 | 16.57 |      | 150.0 |         |
| 10298-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)                             | X | 1.77  | 69.10 | 15.14 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.44  | 66.22 | 13.11 |      | 150.0 |         |
|           |                                                                    | Z | 1.53  | 67.54 | 13.87 |      | 150.0 |         |
| 10299-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)                           | X | 3.44  | 73.52 | 16.85 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.88  | 71.29 | 15.45 |      | 150.0 |         |
|           |                                                                    | Z | 2.69  | 70.29 | 14.69 |      | 150.0 |         |
| 10300-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)                           | X | 2.46  | 67.83 | 13.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.09  | 66.06 | 12.24 |      | 150.0 |         |
|           |                                                                    | Z | 1.99  | 65.57 | 11.71 |      | 150.0 |         |
| 10301-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)                 | X | 5.88  | 68.88 | 19.16 | 4.17 | 80.0  | ± 9.6 % |
|           |                                                                    | Y | 5.51  | 67.81 | 18.47 |      | 80.0  |         |
|           |                                                                    | Z | 5.71  | 68.72 | 18.91 |      | 80.0  |         |
| 10302-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols) | X | 6.37  | 69.56 | 19.96 | 4.96 | 80.0  | ± 9.6 % |
|           |                                                                    | Y | 5.98  | 68.32 | 19.14 |      | 80.0  |         |
|           |                                                                    | Z | 6.20  | 69.38 | 19.70 |      | 80.0  |         |

|           |                                                                     |   |       |       |       |       |       |         |
|-----------|---------------------------------------------------------------------|---|-------|-------|-------|-------|-------|---------|
| 10303-AAA | IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)                 | X | 6.25  | 69.73 | 20.05 | 4.96  | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.81  | 68.31 | 19.13 |       | 80.0  |         |
|           |                                                                     | Z | 6.05  | 69.46 | 19.73 |       | 80.0  |         |
| 10304-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)                 | X | 5.83  | 68.83 | 19.14 | 4.17  | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.47  | 67.66 | 18.36 |       | 80.0  |         |
|           |                                                                     | Z | 5.67  | 68.66 | 18.87 |       | 80.0  |         |
| 10305-AAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)    | X | 11.59 | 87.86 | 28.59 | 6.02  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 8.30  | 80.20 | 25.07 |       | 50.0  |         |
|           |                                                                     | Z | 10.73 | 86.12 | 27.50 |       | 50.0  |         |
| 10306-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)    | X | 6.95  | 73.41 | 22.40 | 6.02  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 6.70  | 73.81 | 22.62 |       | 50.0  |         |
|           |                                                                     | Z | 6.66  | 72.86 | 21.87 |       | 50.0  |         |
| 10307-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)     | X | 7.11  | 74.28 | 22.59 | 6.02  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 6.93  | 74.97 | 22.97 |       | 50.0  |         |
|           |                                                                     | Z | 6.77  | 73.56 | 22.00 |       | 50.0  |         |
| 10308-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)                | X | 7.22  | 74.85 | 22.86 | 6.02  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 7.08  | 75.70 | 23.30 |       | 50.0  |         |
|           |                                                                     | Z | 8.15  | 79.17 | 24.90 |       | 50.0  |         |
| 10309-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols) | X | 7.08  | 73.79 | 22.60 | 6.02  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 6.82  | 74.15 | 22.80 |       | 50.0  |         |
|           |                                                                     | Z | 6.77  | 73.19 | 22.06 |       | 50.0  |         |
| 10310-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)  | X | 7.00  | 73.73 | 22.45 | 6.02  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 6.79  | 74.28 | 22.75 |       | 50.0  |         |
|           |                                                                     | Z | 6.70  | 73.15 | 21.91 |       | 50.0  |         |
| 10311-AAC | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                            | X | 3.27  | 69.63 | 16.57 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 2.99  | 68.15 | 15.70 |       | 150.0 |         |
|           |                                                                     | Z | 3.10  | 69.03 | 16.20 |       | 150.0 |         |
| 10313-AAA | iDEN 1:3                                                            | X | 7.67  | 78.82 | 19.03 | 6.99  | 70.0  | ± 9.6 % |
|           |                                                                     | Y | 6.82  | 77.24 | 18.08 |       | 70.0  |         |
|           |                                                                     | Z | 7.52  | 78.71 | 18.78 |       | 70.0  |         |
| 10314-AAA | iDEN 1:6                                                            | X | 9.54  | 84.04 | 23.30 | 10.00 | 30.0  | ± 9.6 % |
|           |                                                                     | Y | 9.16  | 83.89 | 22.95 |       | 30.0  |         |
|           |                                                                     | Z | 9.80  | 84.95 | 23.44 |       | 30.0  |         |
| 10315-AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)           | X | 1.17  | 65.05 | 15.97 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 1.09  | 63.78 | 14.85 |       | 150.0 |         |
|           |                                                                     | Z | 1.13  | 64.61 | 15.50 |       | 150.0 |         |
| 10316-AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)       | X | 4.73  | 67.02 | 16.56 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.63  | 66.73 | 16.31 |       | 150.0 |         |
|           |                                                                     | Z | 4.64  | 66.97 | 16.43 |       | 150.0 |         |
| 10317-AAC | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)             | X | 4.73  | 67.02 | 16.56 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.63  | 66.73 | 16.31 |       | 150.0 |         |
|           |                                                                     | Z | 4.64  | 66.97 | 16.43 |       | 150.0 |         |
| 10400-AAD | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)                 | X | 4.82  | 67.23 | 16.46 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.70  | 66.92 | 16.20 |       | 150.0 |         |
|           |                                                                     | Z | 4.70  | 67.16 | 16.33 |       | 150.0 |         |
| 10401-AAD | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)                 | X | 5.50  | 67.42 | 16.62 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 5.45  | 67.29 | 16.49 |       | 150.0 |         |
|           |                                                                     | Z | 5.44  | 67.46 | 16.57 |       | 150.0 |         |

|           |                                                                                 |   |        |        |       |      |       |         |
|-----------|---------------------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10402-AAD | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)                             | X | 5.77   | 67.80  | 16.65 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.67   | 67.48  | 16.43 |      | 150.0 |         |
|           |                                                                                 | Z | 5.66   | 67.64  | 16.50 |      | 150.0 |         |
| 10403-AAB | CDMA2000 (1xEV-DO, Rev. 0)                                                      | X | 1.69   | 70.53  | 15.18 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                 | Y | 1.25   | 66.50  | 12.56 |      | 115.0 |         |
|           |                                                                                 | Z | 1.40   | 68.36  | 13.59 |      | 115.0 |         |
| 10404-AAB | CDMA2000 (1xEV-DO, Rev. A)                                                      | X | 1.69   | 70.53  | 15.18 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                 | Y | 1.25   | 66.50  | 12.56 |      | 115.0 |         |
|           |                                                                                 | Z | 1.40   | 68.36  | 13.59 |      | 115.0 |         |
| 10406-AAB | CDMA2000, RC3, SO32, SCH0, Full Rate                                            | X | 58.29  | 119.52 | 31.57 | 0.00 | 100.0 | ± 9.6 % |
|           |                                                                                 | Y | 82.81  | 124.83 | 32.44 |      | 100.0 |         |
|           |                                                                                 | Z | 53.04  | 115.96 | 29.70 |      | 100.0 |         |
| 10410-AAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4) | X | 100.00 | 122.33 | 31.60 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                                 | Y | 100.00 | 122.90 | 31.55 |      | 80.0  |         |
|           |                                                                                 | Z | 100.00 | 121.45 | 30.83 |      | 80.0  |         |
| 10415-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)                       | X | 1.01   | 63.41  | 15.03 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 0.96   | 62.37  | 13.98 |      | 150.0 |         |
|           |                                                                                 | Z | 0.99   | 63.08  | 14.59 |      | 150.0 |         |
| 10416-AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)                   | X | 4.63   | 66.84  | 16.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.53   | 66.56  | 16.14 |      | 150.0 |         |
|           |                                                                                 | Z | 4.54   | 66.80  | 16.26 |      | 150.0 |         |
| 10417-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)                       | X | 4.63   | 66.84  | 16.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.53   | 66.56  | 16.14 |      | 150.0 |         |
|           |                                                                                 | Z | 4.54   | 66.80  | 16.26 |      | 150.0 |         |
| 10418-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)   | X | 4.61   | 66.99  | 16.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.52   | 66.70  | 16.14 |      | 150.0 |         |
|           |                                                                                 | Z | 4.53   | 66.96  | 16.28 |      | 150.0 |         |
| 10419-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)  | X | 4.64   | 66.94  | 16.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.54   | 66.66  | 16.15 |      | 150.0 |         |
|           |                                                                                 | Z | 4.55   | 66.91  | 16.28 |      | 150.0 |         |
| 10422-AAB | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)                                    | X | 4.76   | 66.95  | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.66   | 66.68  | 16.18 |      | 150.0 |         |
|           |                                                                                 | Z | 4.67   | 66.91  | 16.30 |      | 150.0 |         |
| 10423-AAB | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)                                 | X | 4.95   | 67.31  | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.83   | 67.01  | 16.30 |      | 150.0 |         |
|           |                                                                                 | Z | 4.83   | 67.23  | 16.42 |      | 150.0 |         |
| 10424-AAB | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)                                 | X | 4.86   | 67.25  | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.75   | 66.95  | 16.27 |      | 150.0 |         |
|           |                                                                                 | Z | 4.75   | 67.18  | 16.39 |      | 150.0 |         |
| 10425-AAB | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)                                     | X | 5.48   | 67.66  | 16.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.40   | 67.43  | 16.55 |      | 150.0 |         |
|           |                                                                                 | Z | 5.38   | 67.57  | 16.61 |      | 150.0 |         |
| 10426-AAB | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)                                   | X | 5.48   | 67.68  | 16.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.41   | 67.49  | 16.57 |      | 150.0 |         |
|           |                                                                                 | Z | 5.39   | 67.62  | 16.64 |      | 150.0 |         |

|           |                                                                |   |        |        |       |      |       |         |
|-----------|----------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10427-AAB | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)                 | X | 5.49   | 67.63  | 16.71 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.41   | 67.41  | 16.53 |      | 150.0 |         |
|           |                                                                | Z | 5.39   | 67.56  | 16.60 |      | 150.0 |         |
| 10430-AAB | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)                               | X | 4.28   | 70.45  | 18.15 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.15   | 70.21  | 17.82 |      | 150.0 |         |
|           |                                                                | Z | 4.17   | 70.53  | 17.95 |      | 150.0 |         |
| 10431-AAB | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)                              | X | 4.34   | 67.42  | 16.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.21   | 67.05  | 16.09 |      | 150.0 |         |
|           |                                                                | Z | 4.21   | 67.35  | 16.24 |      | 150.0 |         |
| 10432-AAB | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)                              | X | 4.63   | 67.29  | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.51   | 66.97  | 16.19 |      | 150.0 |         |
|           |                                                                | Z | 4.52   | 67.23  | 16.33 |      | 150.0 |         |
| 10433-AAB | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)                              | X | 4.88   | 67.28  | 16.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.77   | 66.98  | 16.29 |      | 150.0 |         |
|           |                                                                | Z | 4.77   | 67.21  | 16.41 |      | 150.0 |         |
| 10434-AAA | W-CDMA (BS Test Model 1, 64 DPCH)                              | X | 4.37   | 71.21  | 18.12 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.21   | 70.88  | 17.70 |      | 150.0 |         |
|           |                                                                | Z | 4.25   | 71.29  | 17.86 |      | 150.0 |         |
| 10435-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 122.16 | 31.53 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                | Y | 100.00 | 122.71 | 31.47 |      | 80.0  |         |
|           |                                                                | Z | 100.00 | 121.26 | 30.74 |      | 80.0  |         |
| 10447-AAB | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)                 | X | 3.64   | 67.48  | 15.86 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.47   | 66.90  | 15.30 |      | 150.0 |         |
|           |                                                                | Z | 3.50   | 67.31  | 15.51 |      | 150.0 |         |
| 10448-AAB | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)                | X | 4.17   | 67.19  | 16.29 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.04   | 66.82  | 15.93 |      | 150.0 |         |
|           |                                                                | Z | 4.05   | 67.12  | 16.10 |      | 150.0 |         |
| 10449-AAB | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)                | X | 4.43   | 67.11  | 16.37 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.32   | 66.77  | 16.08 |      | 150.0 |         |
|           |                                                                | Z | 4.33   | 67.04  | 16.22 |      | 150.0 |         |
| 10450-AAB | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)                | X | 4.62   | 67.04  | 16.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.52   | 66.72  | 16.12 |      | 150.0 |         |
|           |                                                                | Z | 4.52   | 66.97  | 16.25 |      | 150.0 |         |
| 10451-AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)                | X | 3.56   | 67.73  | 15.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.35   | 67.01  | 14.87 |      | 150.0 |         |
|           |                                                                | Z | 3.38   | 67.45  | 15.09 |      | 150.0 |         |
| 10456-AAB | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)           | X | 6.34   | 68.21  | 16.88 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 6.27   | 67.98  | 16.71 |      | 150.0 |         |
|           |                                                                | Z | 6.25   | 68.10  | 16.76 |      | 150.0 |         |
| 10457-AAA | UMTS-FDD (DC-HSDPA)                                            | X | 3.84   | 65.46  | 16.11 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.77   | 65.19  | 15.83 |      | 150.0 |         |
|           |                                                                | Z | 3.79   | 65.43  | 15.97 |      | 150.0 |         |
| 10458-AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)                         | X | 4.00   | 70.46  | 17.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.84   | 70.06  | 17.04 |      | 150.0 |         |
|           |                                                                | Z | 3.90   | 70.60  | 17.26 |      | 150.0 |         |
| 10459-AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)                         | X | 5.11   | 67.94  | 18.07 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.02   | 68.02  | 17.94 |      | 150.0 |         |
|           |                                                                | Z | 5.00   | 68.15  | 17.94 |      | 150.0 |         |

|           |                                                                   |   |        |        |       |      |       |         |
|-----------|-------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10460-AAA | UMTS-FDD (WCDMA, AMR)                                             | X | 0.99   | 70.19  | 17.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                   | Y | 0.79   | 66.24  | 14.56 |      | 150.0 |         |
|           |                                                                   | Z | 0.89   | 68.50  | 16.06 |      | 150.0 |         |
| 10461-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 125.48 | 33.13 | 3.29 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 126.71 | 33.38 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 124.78 | 32.43 |      | 80.0  |         |
| 10462-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 111.35 | 26.37 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 110.68 | 25.72 |      | 80.0  |         |
|           |                                                                   | Z | 99.96  | 108.86 | 24.85 |      | 80.0  |         |
| 10463-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 108.43 | 24.96 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 107.27 | 24.09 |      | 80.0  |         |
|           |                                                                   | Z | 11.86  | 83.93  | 17.98 |      | 80.0  |         |
| 10464-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 123.68 | 32.14 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 124.66 | 32.27 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 122.71 | 31.32 |      | 80.0  |         |
| 10465-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 110.89 | 26.14 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 110.13 | 25.45 |      | 80.0  |         |
|           |                                                                   | Z | 38.00  | 97.98  | 22.23 |      | 80.0  |         |
| 10466-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 66.21  | 103.47 | 23.73 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 29.96  | 94.21  | 20.95 |      | 80.0  |         |
|           |                                                                   | Z | 7.74   | 79.35  | 16.55 |      | 80.0  |         |
| 10467-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 123.89 | 32.23 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 124.90 | 32.38 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 122.94 | 31.42 |      | 80.0  |         |
| 10468-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 111.04 | 26.21 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 110.31 | 25.54 |      | 80.0  |         |
|           |                                                                   | Z | 48.22  | 100.68 | 22.91 |      | 80.0  |         |
| 10469-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 70.15  | 104.12 | 23.88 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 31.63  | 94.80  | 21.09 |      | 80.0  |         |
|           |                                                                   | Z | 7.88   | 79.54  | 16.61 |      | 80.0  |         |
| 10470-AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 123.92 | 32.24 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 124.94 | 32.38 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 122.97 | 31.42 |      | 80.0  |         |
| 10471-AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 100.00 | 111.00 | 26.18 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 110.26 | 25.51 |      | 80.0  |         |
|           |                                                                   | Z | 47.97  | 100.58 | 22.87 |      | 80.0  |         |
| 10472-AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 70.92  | 104.20 | 23.88 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 31.52  | 94.72  | 21.06 |      | 80.0  |         |
|           |                                                                   | Z | 7.84   | 79.47  | 16.58 |      | 80.0  |         |
| 10473-AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 123.89 | 32.23 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 124.91 | 32.37 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 122.94 | 31.41 |      | 80.0  |         |
| 10474-AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 100.00 | 111.01 | 26.19 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 110.27 | 25.51 |      | 80.0  |         |
|           |                                                                   | Z | 47.00  | 100.37 | 22.82 |      | 80.0  |         |
| 10475-AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 68.93  | 103.90 | 23.81 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 30.64  | 94.44  | 20.99 |      | 80.0  |         |
|           |                                                                   | Z | 7.75   | 79.37  | 16.55 |      | 80.0  |         |

|           |                                                                     |   |        |        |       |      |      |         |
|-----------|---------------------------------------------------------------------|---|--------|--------|-------|------|------|---------|
| 10477-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 110.85 | 26.11 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 110.08 | 25.42 |      | 80.0 |         |
|           |                                                                     | Z | 39.81  | 98.45  | 22.33 |      | 80.0 |         |
| 10478-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)    | X | 66.88  | 103.53 | 23.72 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 29.54  | 94.01  | 20.87 |      | 80.0 |         |
|           |                                                                     | Z | 7.64   | 79.20  | 16.49 |      | 80.0 |         |
| 10479-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 18.61  | 98.48  | 27.45 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 25.62  | 103.89 | 28.72 |      | 80.0 |         |
|           |                                                                     | Z | 19.02  | 98.49  | 26.87 |      | 80.0 |         |
| 10480-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 17.74  | 92.23  | 23.95 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 23.09  | 96.00  | 24.65 |      | 80.0 |         |
|           |                                                                     | Z | 15.42  | 89.78  | 22.53 |      | 80.0 |         |
| 10481-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 14.70  | 88.73  | 22.56 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 17.07  | 90.84  | 22.79 |      | 80.0 |         |
|           |                                                                     | Z | 11.82  | 85.36  | 20.81 |      | 80.0 |         |
| 10482-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 6.42   | 80.34  | 20.27 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.54   | 75.37  | 17.94 |      | 80.0 |         |
|           |                                                                     | Z | 5.57   | 78.35  | 19.09 |      | 80.0 |         |
| 10483-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 9.52   | 83.05  | 21.15 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 9.34   | 82.78  | 20.64 |      | 80.0 |         |
|           |                                                                     | Z | 7.40   | 79.15  | 19.09 |      | 80.0 |         |
| 10484-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 8.60   | 81.38  | 20.58 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 8.20   | 80.76  | 19.96 |      | 80.0 |         |
|           |                                                                     | Z | 6.69   | 77.58  | 18.54 |      | 80.0 |         |
| 10485-AAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 6.55   | 80.98  | 21.28 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.07   | 77.22  | 19.53 |      | 80.0 |         |
|           |                                                                     | Z | 6.01   | 79.95  | 20.60 |      | 80.0 |         |
| 10486-AAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 5.00   | 73.93  | 18.31 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.24   | 71.65  | 16.98 |      | 80.0 |         |
|           |                                                                     | Z | 4.64   | 73.10  | 17.58 |      | 80.0 |         |
| 10487-AAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.92   | 73.36  | 18.08 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.20   | 71.18  | 16.78 |      | 80.0 |         |
|           |                                                                     | Z | 4.56   | 72.51  | 17.34 |      | 80.0 |         |
| 10488-AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 6.10   | 78.52  | 20.97 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.11   | 75.97  | 19.78 |      | 80.0 |         |
|           |                                                                     | Z | 5.69   | 77.85  | 20.57 |      | 80.0 |         |
| 10489-AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 4.95   | 72.75  | 18.88 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.48   | 71.40  | 18.08 |      | 80.0 |         |
|           |                                                                     | Z | 4.72   | 72.41  | 18.54 |      | 80.0 |         |
| 10490-AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 5.00   | 72.39  | 18.75 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.55   | 71.14  | 18.00 |      | 80.0 |         |
|           |                                                                     | Z | 4.78   | 72.09  | 18.43 |      | 80.0 |         |
| 10491-AAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 5.71   | 75.50  | 19.96 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.04   | 73.73  | 19.09 |      | 80.0 |         |
|           |                                                                     | Z | 5.40   | 75.03  | 19.67 |      | 80.0 |         |
| 10492-AAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 5.12   | 71.43  | 18.61 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.74   | 70.41  | 18.01 |      | 80.0 |         |
|           |                                                                     | Z | 4.91   | 71.17  | 18.36 |      | 80.0 |         |

|           |                                                                      |   |      |       |       |      |      |         |
|-----------|----------------------------------------------------------------------|---|------|-------|-------|------|------|---------|
| 10493-AAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 5.16 | 71.20 | 18.53 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.79 | 70.23 | 17.95 |      | 80.0 |         |
|           |                                                                      | Z | 4.96 | 70.96 | 18.29 |      | 80.0 |         |
| 10494-AAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 6.40 | 77.43 | 20.51 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.52 | 75.29 | 19.53 |      | 80.0 |         |
|           |                                                                      | Z | 6.00 | 76.80 | 20.18 |      | 80.0 |         |
| 10495-AAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 5.21 | 71.98 | 18.84 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.80 | 70.86 | 18.21 |      | 80.0 |         |
|           |                                                                      | Z | 4.99 | 71.64 | 18.58 |      | 80.0 |         |
| 10496-AAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 5.24 | 71.52 | 18.69 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.85 | 70.51 | 18.11 |      | 80.0 |         |
|           |                                                                      | Z | 5.02 | 71.23 | 18.45 |      | 80.0 |         |
| 10497-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 4.89 | 76.14 | 17.97 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.19 | 70.40 | 15.09 |      | 80.0 |         |
|           |                                                                      | Z | 3.85 | 72.91 | 16.12 |      | 80.0 |         |
| 10498-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.27 | 68.15 | 13.86 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.33 | 64.21 | 11.42 |      | 80.0 |         |
|           |                                                                      | Z | 2.49 | 65.10 | 11.84 |      | 80.0 |         |
| 10499-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.14 | 67.39 | 13.40 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.26 | 63.62 | 11.00 |      | 80.0 |         |
|           |                                                                      | Z | 2.39 | 64.37 | 11.36 |      | 80.0 |         |
| 10500-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 6.12 | 79.35 | 20.96 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.97 | 76.32 | 19.51 |      | 80.0 |         |
|           |                                                                      | Z | 5.70 | 78.62 | 20.44 |      | 80.0 |         |
| 10501-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.96 | 73.36 | 18.48 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.36 | 71.58 | 17.41 |      | 80.0 |         |
|           |                                                                      | Z | 4.68 | 72.83 | 17.95 |      | 80.0 |         |
| 10502-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.98 | 73.06 | 18.32 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.39 | 71.34 | 17.27 |      | 80.0 |         |
|           |                                                                      | Z | 4.70 | 72.53 | 17.78 |      | 80.0 |         |
| 10503-AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 6.02 | 78.31 | 20.87 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.05 | 75.75 | 19.68 |      | 80.0 |         |
|           |                                                                      | Z | 5.61 | 77.63 | 20.47 |      | 80.0 |         |
| 10504-AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.93 | 72.67 | 18.83 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.45 | 71.30 | 18.03 |      | 80.0 |         |
|           |                                                                      | Z | 4.70 | 72.32 | 18.48 |      | 80.0 |         |
| 10505-AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.97 | 72.30 | 18.70 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.52 | 71.04 | 17.95 |      | 80.0 |         |
|           |                                                                      | Z | 4.75 | 71.99 | 18.37 |      | 80.0 |         |
| 10506-AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 6.35 | 77.28 | 20.44 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.48 | 75.14 | 19.46 |      | 80.0 |         |
|           |                                                                      | Z | 5.95 | 76.64 | 20.11 |      | 80.0 |         |
| 10507-AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 5.19 | 71.92 | 18.80 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.78 | 70.80 | 18.18 |      | 80.0 |         |
|           |                                                                      | Z | 4.97 | 71.58 | 18.54 |      | 80.0 |         |

|           |                                                                     |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10508-AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.22 | 71.46 | 18.65 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.84 | 70.44 | 18.07 |      | 80.0  |         |
|           |                                                                     | Z | 5.01 | 71.16 | 18.41 |      | 80.0  |         |
| 10509-AAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 6.16 | 74.73 | 19.49 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.55 | 73.22 | 18.76 |      | 80.0  |         |
|           |                                                                     | Z | 5.87 | 74.29 | 19.25 |      | 80.0  |         |
| 10510-AAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.58 | 71.18 | 18.59 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.22 | 70.26 | 18.08 |      | 80.0  |         |
|           |                                                                     | Z | 5.37 | 70.88 | 18.37 |      | 80.0  |         |
| 10511-AAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.59 | 70.81 | 18.48 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.25 | 69.96 | 18.01 |      | 80.0  |         |
|           |                                                                     | Z | 5.39 | 70.55 | 18.28 |      | 80.0  |         |
| 10512-AAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 6.77 | 76.89 | 20.15 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.92 | 74.92 | 19.26 |      | 80.0  |         |
|           |                                                                     | Z | 6.37 | 76.26 | 19.84 |      | 80.0  |         |
| 10513-AAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.53 | 71.68 | 18.77 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.14 | 70.63 | 18.21 |      | 80.0  |         |
|           |                                                                     | Z | 5.30 | 71.30 | 18.53 |      | 80.0  |         |
| 10514-AAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.48 | 71.10 | 18.60 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.12 | 70.15 | 18.08 |      | 80.0  |         |
|           |                                                                     | Z | 5.27 | 70.77 | 18.37 |      | 80.0  |         |
| 10515-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)           | X | 0.97 | 63.65 | 15.12 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.92 | 62.50 | 14.00 |      | 150.0 |         |
|           |                                                                     | Z | 0.95 | 63.27 | 14.65 |      | 150.0 |         |
| 10516-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)         | X | 0.79 | 75.90 | 19.78 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.49 | 67.25 | 14.66 |      | 150.0 |         |
|           |                                                                     | Z | 0.62 | 71.59 | 17.42 |      | 150.0 |         |
| 10517-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)          | X | 0.85 | 66.16 | 16.04 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.75 | 63.97 | 14.23 |      | 150.0 |         |
|           |                                                                     | Z | 0.80 | 65.28 | 15.27 |      | 150.0 |         |
| 10518-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)           | X | 4.62 | 66.92 | 16.37 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.52 | 66.63 | 16.11 |      | 150.0 |         |
|           |                                                                     | Z | 4.53 | 66.88 | 16.24 |      | 150.0 |         |
| 10519-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)          | X | 4.83 | 67.19 | 16.50 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.71 | 66.89 | 16.25 |      | 150.0 |         |
|           |                                                                     | Z | 4.71 | 67.12 | 16.36 |      | 150.0 |         |
| 10520-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)          | X | 4.68 | 67.16 | 16.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.56 | 66.83 | 16.16 |      | 150.0 |         |
|           |                                                                     | Z | 4.57 | 67.07 | 16.28 |      | 150.0 |         |
| 10521-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)          | X | 4.61 | 67.16 | 16.41 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.49 | 66.82 | 16.13 |      | 150.0 |         |
|           |                                                                     | Z | 4.50 | 67.06 | 16.26 |      | 150.0 |         |
| 10522-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)          | X | 4.66 | 67.20 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.55 | 66.91 | 16.22 |      | 150.0 |         |
|           |                                                                     | Z | 4.56 | 67.16 | 16.35 |      | 150.0 |         |

|           |                                                            |   |      |       |       |      |       |         |
|-----------|------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10523-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | X | 4.53 | 67.06 | 16.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.43 | 66.75 | 16.05 |      | 150.0 |         |
|           |                                                            | Z | 4.44 | 67.02 | 16.19 |      | 150.0 |         |
| 10524-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) | X | 4.61 | 67.14 | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.50 | 66.83 | 16.19 |      | 150.0 |         |
|           |                                                            | Z | 4.50 | 67.08 | 16.32 |      | 150.0 |         |
| 10525-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)          | X | 4.58 | 66.16 | 16.03 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.48 | 65.85 | 15.77 |      | 150.0 |         |
|           |                                                            | Z | 4.49 | 66.11 | 15.90 |      | 150.0 |         |
| 10526-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)          | X | 4.77 | 66.55 | 16.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.65 | 66.23 | 15.92 |      | 150.0 |         |
|           |                                                            | Z | 4.66 | 66.48 | 16.05 |      | 150.0 |         |
| 10527-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)          | X | 4.69 | 66.52 | 16.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.57 | 66.18 | 15.85 |      | 150.0 |         |
|           |                                                            | Z | 4.58 | 66.44 | 15.99 |      | 150.0 |         |
| 10528-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)          | X | 4.70 | 66.54 | 16.16 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.59 | 66.20 | 15.89 |      | 150.0 |         |
|           |                                                            | Z | 4.59 | 66.46 | 16.02 |      | 150.0 |         |
| 10529-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)          | X | 4.70 | 66.54 | 16.16 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.59 | 66.20 | 15.89 |      | 150.0 |         |
|           |                                                            | Z | 4.59 | 66.46 | 16.02 |      | 150.0 |         |
| 10531-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)          | X | 4.71 | 66.67 | 16.19 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.58 | 66.30 | 15.90 |      | 150.0 |         |
|           |                                                            | Z | 4.59 | 66.56 | 16.03 |      | 150.0 |         |
| 10532-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)          | X | 4.56 | 66.53 | 16.12 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.44 | 66.14 | 15.82 |      | 150.0 |         |
|           |                                                            | Z | 4.45 | 66.41 | 15.96 |      | 150.0 |         |
| 10533-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)          | X | 4.71 | 66.57 | 16.14 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.60 | 66.24 | 15.87 |      | 150.0 |         |
|           |                                                            | Z | 4.60 | 66.51 | 16.01 |      | 150.0 |         |
| 10534-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)          | X | 5.23 | 66.67 | 16.22 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.14 | 66.38 | 16.00 |      | 150.0 |         |
|           |                                                            | Z | 5.14 | 66.58 | 16.10 |      | 150.0 |         |
| 10535-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)          | X | 5.31 | 66.84 | 16.29 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.22 | 66.58 | 16.09 |      | 150.0 |         |
|           |                                                            | Z | 5.21 | 66.78 | 16.19 |      | 150.0 |         |
| 10536-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)          | X | 5.17 | 66.80 | 16.25 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.07 | 66.49 | 16.02 |      | 150.0 |         |
|           |                                                            | Z | 5.07 | 66.71 | 16.13 |      | 150.0 |         |
| 10537-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)          | X | 5.24 | 66.78 | 16.25 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.13 | 66.47 | 16.02 |      | 150.0 |         |
|           |                                                            | Z | 5.13 | 66.67 | 16.12 |      | 150.0 |         |
| 10538-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)          | X | 5.34 | 66.83 | 16.31 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.23 | 66.51 | 16.08 |      | 150.0 |         |
|           |                                                            | Z | 5.22 | 66.70 | 16.17 |      | 150.0 |         |
| 10540-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)          | X | 5.25 | 66.81 | 16.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.16 | 66.53 | 16.10 |      | 150.0 |         |
|           |                                                            | Z | 5.16 | 66.73 | 16.20 |      | 150.0 |         |

|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10541-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)  | X | 5.22 | 66.67 | 16.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.13 | 66.37 | 16.02 |      | 150.0 |         |
|           |                                                    | Z | 5.13 | 66.58 | 16.12 |      | 150.0 |         |
| 10542-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)  | X | 5.38 | 66.75 | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.29 | 66.46 | 16.08 |      | 150.0 |         |
|           |                                                    | Z | 5.28 | 66.65 | 16.17 |      | 150.0 |         |
| 10543-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)  | X | 5.47 | 66.79 | 16.33 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.38 | 66.54 | 16.14 |      | 150.0 |         |
|           |                                                    | Z | 5.36 | 66.70 | 16.22 |      | 150.0 |         |
| 10544-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)  | X | 5.53 | 66.76 | 16.20 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.45 | 66.49 | 16.00 |      | 150.0 |         |
|           |                                                    | Z | 5.45 | 66.68 | 16.09 |      | 150.0 |         |
| 10545-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)  | X | 5.75 | 67.24 | 16.38 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.67 | 66.99 | 16.20 |      | 150.0 |         |
|           |                                                    | Z | 5.66 | 67.15 | 16.27 |      | 150.0 |         |
| 10546-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)  | X | 5.62 | 67.04 | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.52 | 66.72 | 16.08 |      | 150.0 |         |
|           |                                                    | Z | 5.52 | 66.90 | 16.16 |      | 150.0 |         |
| 10547-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)  | X | 5.71 | 67.13 | 16.33 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.60 | 66.78 | 16.10 |      | 150.0 |         |
|           |                                                    | Z | 5.59 | 66.94 | 16.17 |      | 150.0 |         |
| 10548-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)  | X | 6.09 | 68.45 | 16.97 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.98 | 68.09 | 16.72 |      | 150.0 |         |
|           |                                                    | Z | 5.90 | 68.06 | 16.71 |      | 150.0 |         |
| 10550-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)  | X | 5.64 | 67.01 | 16.29 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.56 | 66.76 | 16.11 |      | 150.0 |         |
|           |                                                    | Z | 5.55 | 66.94 | 16.19 |      | 150.0 |         |
| 10551-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)  | X | 5.64 | 67.06 | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.55 | 66.75 | 16.06 |      | 150.0 |         |
|           |                                                    | Z | 5.55 | 66.95 | 16.16 |      | 150.0 |         |
| 10552-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)  | X | 5.55 | 66.82 | 16.17 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.46 | 66.53 | 15.96 |      | 150.0 |         |
|           |                                                    | Z | 5.46 | 66.74 | 16.06 |      | 150.0 |         |
| 10553-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)  | X | 5.64 | 66.88 | 16.23 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.54 | 66.58 | 16.02 |      | 150.0 |         |
|           |                                                    | Z | 5.54 | 66.77 | 16.11 |      | 150.0 |         |
| 10554-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle) | X | 5.94 | 67.15 | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.87 | 66.87 | 16.10 |      | 150.0 |         |
|           |                                                    | Z | 5.86 | 67.05 | 16.18 |      | 150.0 |         |
| 10555-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle) | X | 6.09 | 67.49 | 16.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 6.01 | 67.23 | 16.26 |      | 150.0 |         |
|           |                                                    | Z | 6.00 | 67.38 | 16.32 |      | 150.0 |         |
| 10556-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle) | X | 6.10 | 67.52 | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 6.02 | 67.25 | 16.26 |      | 150.0 |         |
|           |                                                    | Z | 6.02 | 67.42 | 16.34 |      | 150.0 |         |
| 10557-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle) | X | 6.08 | 67.44 | 16.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.99 | 67.15 | 16.23 |      | 150.0 |         |
|           |                                                    | Z | 5.98 | 67.31 | 16.30 |      | 150.0 |         |

|           |                                                                 |   |       |        |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10558-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)              | X | 6.14  | 67.64  | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.04  | 67.32  | 16.33 |      | 150.0 |         |
|           |                                                                 | Z | 6.03  | 67.48  | 16.40 |      | 150.0 |         |
| 10560-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)              | X | 6.12  | 67.44  | 16.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.03  | 67.14  | 16.28 |      | 150.0 |         |
|           |                                                                 | Z | 6.02  | 67.31  | 16.36 |      | 150.0 |         |
| 10561-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)              | X | 6.04  | 67.43  | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.96  | 67.14  | 16.32 |      | 150.0 |         |
|           |                                                                 | Z | 5.95  | 67.31  | 16.39 |      | 150.0 |         |
| 10562-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)              | X | 6.21  | 67.94  | 16.77 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.10  | 67.58  | 16.54 |      | 150.0 |         |
|           |                                                                 | Z | 6.08  | 67.71  | 16.59 |      | 150.0 |         |
| 10563-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)              | X | 6.62  | 68.71  | 17.11 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.41  | 68.12  | 16.77 |      | 150.0 |         |
|           |                                                                 | Z | 6.30  | 68.01  | 16.70 |      | 150.0 |         |
| 10564-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)  | X | 4.97  | 67.05  | 16.56 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.87  | 66.78  | 16.32 |      | 150.0 |         |
|           |                                                                 | Z | 4.87  | 67.01  | 16.43 |      | 150.0 |         |
| 10565-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | X | 5.21  | 67.51  | 16.88 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.10  | 67.22  | 16.64 |      | 150.0 |         |
|           |                                                                 | Z | 5.10  | 67.43  | 16.74 |      | 150.0 |         |
| 10566-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | X | 5.05  | 67.38  | 16.71 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.93  | 67.07  | 16.45 |      | 150.0 |         |
|           |                                                                 | Z | 4.93  | 67.29  | 16.57 |      | 150.0 |         |
| 10567-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | X | 5.07  | 67.74  | 17.03 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.96  | 67.43  | 16.79 |      | 150.0 |         |
|           |                                                                 | Z | 4.96  | 67.65  | 16.90 |      | 150.0 |         |
| 10568-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | X | 4.97  | 67.18  | 16.50 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.86  | 66.88  | 16.25 |      | 150.0 |         |
|           |                                                                 | Z | 4.86  | 67.13  | 16.38 |      | 150.0 |         |
| 10569-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | X | 5.02  | 67.78  | 17.06 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.91  | 67.51  | 16.84 |      | 150.0 |         |
|           |                                                                 | Z | 4.92  | 67.74  | 16.95 |      | 150.0 |         |
| 10570-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | X | 5.06  | 67.64  | 17.01 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.95  | 67.38  | 16.79 |      | 150.0 |         |
|           |                                                                 | Z | 4.95  | 67.60  | 16.90 |      | 150.0 |         |
| 10571-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)       | X | 1.37  | 66.59  | 16.71 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.26  | 65.12  | 15.54 |      | 130.0 |         |
|           |                                                                 | Z | 1.32  | 66.08  | 16.22 |      | 130.0 |         |
| 10572-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)       | X | 1.39  | 67.31  | 17.11 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.28  | 65.71  | 15.88 |      | 130.0 |         |
|           |                                                                 | Z | 1.34  | 66.74  | 16.60 |      | 130.0 |         |
| 10573-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)     | X | 17.13 | 116.23 | 31.59 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 2.44  | 84.17  | 21.35 |      | 130.0 |         |
|           |                                                                 | Z | 6.44  | 100.05 | 26.86 |      | 130.0 |         |
| 10574-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)      | X | 1.76  | 75.21  | 20.71 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.45  | 71.43  | 18.52 |      | 130.0 |         |
|           |                                                                 | Z | 1.62  | 73.67  | 19.79 |      | 130.0 |         |

|           |                                                                 |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10575-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | X | 4.79 | 66.95 | 16.68 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.69 | 66.67 | 16.43 |      | 130.0 |         |
|           |                                                                 | Z | 4.69 | 66.91 | 16.55 |      | 130.0 |         |
| 10576-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | X | 4.81 | 67.10 | 16.73 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.71 | 66.83 | 16.49 |      | 130.0 |         |
|           |                                                                 | Z | 4.72 | 67.06 | 16.60 |      | 130.0 |         |
| 10577-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | X | 5.03 | 67.41 | 16.91 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.92 | 67.12 | 16.66 |      | 130.0 |         |
|           |                                                                 | Z | 4.92 | 67.34 | 16.77 |      | 130.0 |         |
| 10578-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | X | 4.93 | 67.56 | 17.00 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.81 | 67.27 | 16.75 |      | 130.0 |         |
|           |                                                                 | Z | 4.82 | 67.49 | 16.86 |      | 130.0 |         |
| 10579-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | X | 4.71 | 66.96 | 16.38 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.59 | 66.61 | 16.09 |      | 130.0 |         |
|           |                                                                 | Z | 4.60 | 66.86 | 16.22 |      | 130.0 |         |
| 10580-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | X | 4.76 | 66.97 | 16.40 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.64 | 66.65 | 16.11 |      | 130.0 |         |
|           |                                                                 | Z | 4.64 | 66.90 | 16.25 |      | 130.0 |         |
| 10581-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | X | 4.83 | 67.64 | 16.95 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.71 | 67.32 | 16.69 |      | 130.0 |         |
|           |                                                                 | Z | 4.72 | 67.56 | 16.81 |      | 130.0 |         |
| 10582-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | X | 4.66 | 66.74 | 16.19 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.54 | 66.39 | 15.89 |      | 130.0 |         |
|           |                                                                 | Z | 4.54 | 66.64 | 16.03 |      | 130.0 |         |
| 10583-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)       | X | 4.79 | 66.95 | 16.68 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.69 | 66.67 | 16.43 |      | 130.0 |         |
|           |                                                                 | Z | 4.69 | 66.91 | 16.55 |      | 130.0 |         |
| 10584-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)       | X | 4.81 | 67.10 | 16.73 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.71 | 66.83 | 16.49 |      | 130.0 |         |
|           |                                                                 | Z | 4.72 | 67.06 | 16.60 |      | 130.0 |         |
| 10585-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)      | X | 5.03 | 67.41 | 16.91 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.92 | 67.12 | 16.66 |      | 130.0 |         |
|           |                                                                 | Z | 4.92 | 67.34 | 16.77 |      | 130.0 |         |
| 10586-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)      | X | 4.93 | 67.56 | 17.00 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.81 | 67.27 | 16.75 |      | 130.0 |         |
|           |                                                                 | Z | 4.82 | 67.49 | 16.86 |      | 130.0 |         |
| 10587-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)      | X | 4.71 | 66.96 | 16.38 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.59 | 66.61 | 16.09 |      | 130.0 |         |
|           |                                                                 | Z | 4.60 | 66.86 | 16.22 |      | 130.0 |         |
| 10588-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)      | X | 4.76 | 66.97 | 16.40 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.64 | 66.65 | 16.11 |      | 130.0 |         |
|           |                                                                 | Z | 4.64 | 66.90 | 16.25 |      | 130.0 |         |
| 10589-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)      | X | 4.83 | 67.64 | 16.95 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.71 | 67.32 | 16.69 |      | 130.0 |         |
|           |                                                                 | Z | 4.72 | 67.56 | 16.81 |      | 130.0 |         |
| 10590-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)      | X | 4.66 | 66.74 | 16.19 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.54 | 66.39 | 15.89 |      | 130.0 |         |
|           |                                                                 | Z | 4.54 | 66.64 | 16.03 |      | 130.0 |         |

|           |                                                       |   |      |       |       |      |       |         |
|-----------|-------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10591-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) | X | 4.93 | 66.98 | 16.76 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.84 | 66.73 | 16.53 |      | 130.0 |         |
|           |                                                       | Z | 4.84 | 66.95 | 16.64 |      | 130.0 |         |
| 10592-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle) | X | 5.10 | 67.33 | 16.89 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.99 | 67.06 | 16.66 |      | 130.0 |         |
|           |                                                       | Z | 4.99 | 67.28 | 16.77 |      | 130.0 |         |
| 10593-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle) | X | 5.03 | 67.27 | 16.79 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.92 | 66.98 | 16.54 |      | 130.0 |         |
|           |                                                       | Z | 4.92 | 67.20 | 16.65 |      | 130.0 |         |
| 10594-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle) | X | 5.08 | 67.42 | 16.93 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.97 | 67.14 | 16.70 |      | 130.0 |         |
|           |                                                       | Z | 4.97 | 67.36 | 16.80 |      | 130.0 |         |
| 10595-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle) | X | 5.05 | 67.38 | 16.83 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.94 | 67.10 | 16.59 |      | 130.0 |         |
|           |                                                       | Z | 4.94 | 67.32 | 16.70 |      | 130.0 |         |
| 10596-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle) | X | 4.99 | 67.40 | 16.85 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.88 | 67.10 | 16.60 |      | 130.0 |         |
|           |                                                       | Z | 4.88 | 67.34 | 16.72 |      | 130.0 |         |
| 10597-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle) | X | 4.94 | 67.32 | 16.74 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.83 | 67.01 | 16.48 |      | 130.0 |         |
|           |                                                       | Z | 4.83 | 67.24 | 16.60 |      | 130.0 |         |
| 10598-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle) | X | 4.92 | 67.54 | 16.99 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.81 | 67.23 | 16.73 |      | 130.0 |         |
|           |                                                       | Z | 4.81 | 67.45 | 16.84 |      | 130.0 |         |
| 10599-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle) | X | 5.61 | 67.56 | 16.97 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.52 | 67.33 | 16.78 |      | 130.0 |         |
|           |                                                       | Z | 5.52 | 67.51 | 16.86 |      | 130.0 |         |
| 10600-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) | X | 5.83 | 68.25 | 17.29 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.73 | 67.98 | 17.09 |      | 130.0 |         |
|           |                                                       | Z | 5.68 | 68.03 | 17.10 |      | 130.0 |         |
| 10601-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle) | X | 5.67 | 67.85 | 17.10 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.58 | 67.60 | 16.91 |      | 130.0 |         |
|           |                                                       | Z | 5.55 | 67.72 | 16.96 |      | 130.0 |         |
| 10602-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) | X | 5.75 | 67.84 | 17.02 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.68 | 67.65 | 16.85 |      | 130.0 |         |
|           |                                                       | Z | 5.66 | 67.78 | 16.92 |      | 130.0 |         |
| 10603-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) | X | 5.83 | 68.10 | 17.27 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.74 | 67.87 | 17.09 |      | 130.0 |         |
|           |                                                       | Z | 5.72 | 68.02 | 17.16 |      | 130.0 |         |
| 10604-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle) | X | 5.61 | 67.53 | 16.97 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.53 | 67.28 | 16.78 |      | 130.0 |         |
|           |                                                       | Z | 5.52 | 67.47 | 16.87 |      | 130.0 |         |
| 10605-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) | X | 5.75 | 67.94 | 17.19 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.68 | 67.77 | 17.03 |      | 130.0 |         |
|           |                                                       | Z | 5.66 | 67.89 | 17.09 |      | 130.0 |         |
| 10606-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle) | X | 5.49 | 67.29 | 16.73 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.41 | 67.06 | 16.53 |      | 130.0 |         |
|           |                                                       | Z | 5.38 | 67.16 | 16.58 |      | 130.0 |         |

|           |                                                   |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10607-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | X | 4.77 | 66.28 | 16.37 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.67 | 66.00 | 16.12 |      | 130.0 |         |
|           |                                                   | Z | 4.67 | 66.24 | 16.25 |      | 130.0 |         |
| 10608-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) | X | 4.97 | 66.70 | 16.53 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.85 | 66.40 | 16.29 |      | 130.0 |         |
|           |                                                   | Z | 4.86 | 66.65 | 16.41 |      | 130.0 |         |
| 10609-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) | X | 4.86 | 66.58 | 16.39 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.74 | 66.26 | 16.13 |      | 130.0 |         |
|           |                                                   | Z | 4.75 | 66.51 | 16.26 |      | 130.0 |         |
| 10610-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | X | 4.91 | 66.72 | 16.54 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.79 | 66.41 | 16.29 |      | 130.0 |         |
|           |                                                   | Z | 4.80 | 66.66 | 16.41 |      | 130.0 |         |
| 10611-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) | X | 4.83 | 66.55 | 16.41 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.71 | 66.23 | 16.14 |      | 130.0 |         |
|           |                                                   | Z | 4.72 | 66.48 | 16.27 |      | 130.0 |         |
| 10612-AAB | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) | X | 4.85 | 66.73 | 16.46 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.72 | 66.39 | 16.19 |      | 130.0 |         |
|           |                                                   | Z | 4.73 | 66.65 | 16.32 |      | 130.0 |         |
| 10613-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) | X | 4.86 | 66.64 | 16.36 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.73 | 66.28 | 16.08 |      | 130.0 |         |
|           |                                                   | Z | 4.74 | 66.53 | 16.21 |      | 130.0 |         |
| 10614-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle) | X | 4.79 | 66.79 | 16.56 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.67 | 66.44 | 16.29 |      | 130.0 |         |
|           |                                                   | Z | 4.67 | 66.69 | 16.42 |      | 130.0 |         |
| 10615-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) | X | 4.84 | 66.40 | 16.20 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.72 | 66.07 | 15.93 |      | 130.0 |         |
|           |                                                   | Z | 4.72 | 66.33 | 16.07 |      | 130.0 |         |
| 10616-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) | X | 5.42 | 66.80 | 16.56 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.33 | 66.52 | 16.36 |      | 130.0 |         |
|           |                                                   | Z | 5.32 | 66.71 | 16.44 |      | 130.0 |         |
| 10617-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) | X | 5.49 | 66.95 | 16.61 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.41 | 66.76 | 16.45 |      | 130.0 |         |
|           |                                                   | Z | 5.40 | 66.93 | 16.53 |      | 130.0 |         |
| 10618-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) | X | 5.38 | 66.99 | 16.64 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.28 | 66.71 | 16.44 |      | 130.0 |         |
|           |                                                   | Z | 5.28 | 66.90 | 16.53 |      | 130.0 |         |
| 10619-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) | X | 5.41 | 66.83 | 16.51 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.32 | 66.57 | 16.30 |      | 130.0 |         |
|           |                                                   | Z | 5.31 | 66.75 | 16.39 |      | 130.0 |         |
| 10620-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) | X | 5.51 | 66.90 | 16.59 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.40 | 66.60 | 16.37 |      | 130.0 |         |
|           |                                                   | Z | 5.39 | 66.77 | 16.45 |      | 130.0 |         |
| 10621-AAB | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) | X | 5.48 | 66.93 | 16.71 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.39 | 66.68 | 16.52 |      | 130.0 |         |
|           |                                                   | Z | 5.38 | 66.86 | 16.61 |      | 130.0 |         |
| 10622-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) | X | 5.50 | 67.12 | 16.80 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.42 | 66.91 | 16.63 |      | 130.0 |         |
|           |                                                   | Z | 5.40 | 67.05 | 16.70 |      | 130.0 |         |

|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10623-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)  | X | 5.37 | 66.65 | 16.45 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.28 | 66.39 | 16.25 |      | 130.0 |         |
|           |                                                    | Z | 5.28 | 66.58 | 16.34 |      | 130.0 |         |
| 10624-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)  | X | 5.57 | 66.87 | 16.62 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.48 | 66.61 | 16.42 |      | 130.0 |         |
|           |                                                    | Z | 5.47 | 66.77 | 16.50 |      | 130.0 |         |
| 10625-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)  | X | 6.04 | 68.14 | 17.31 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.92 | 67.83 | 17.08 |      | 130.0 |         |
|           |                                                    | Z | 5.86 | 67.85 | 17.09 |      | 130.0 |         |
| 10626-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)  | X | 5.69 | 66.81 | 16.49 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.62 | 66.57 | 16.31 |      | 130.0 |         |
|           |                                                    | Z | 5.62 | 66.75 | 16.39 |      | 130.0 |         |
| 10627-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)  | X | 5.97 | 67.48 | 16.78 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.90 | 67.27 | 16.62 |      | 130.0 |         |
|           |                                                    | Z | 5.88 | 67.40 | 16.68 |      | 130.0 |         |
| 10628-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)  | X | 5.76 | 67.00 | 16.48 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.67 | 66.72 | 16.28 |      | 130.0 |         |
|           |                                                    | Z | 5.66 | 66.88 | 16.36 |      | 130.0 |         |
| 10629-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)  | X | 5.84 | 67.06 | 16.50 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.77 | 66.85 | 16.34 |      | 130.0 |         |
|           |                                                    | Z | 5.74 | 66.97 | 16.39 |      | 130.0 |         |
| 10630-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)  | X | 6.51 | 69.24 | 17.59 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.40 | 68.89 | 17.35 |      | 130.0 |         |
|           |                                                    | Z | 6.28 | 68.76 | 17.29 |      | 130.0 |         |
| 10631-AAB | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)  | X | 6.25 | 68.57 | 17.44 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.12 | 68.19 | 17.19 |      | 130.0 |         |
|           |                                                    | Z | 6.08 | 68.24 | 17.21 |      | 130.0 |         |
| 10632-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)  | X | 5.92 | 67.46 | 16.90 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.86 | 67.28 | 16.76 |      | 130.0 |         |
|           |                                                    | Z | 5.84 | 67.41 | 16.81 |      | 130.0 |         |
| 10633-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)  | X | 5.82 | 67.14 | 16.58 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.71 | 66.81 | 16.36 |      | 130.0 |         |
|           |                                                    | Z | 5.71 | 66.98 | 16.44 |      | 130.0 |         |
| 10634-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)  | X | 5.79 | 67.13 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.70 | 66.83 | 16.42 |      | 130.0 |         |
|           |                                                    | Z | 5.69 | 67.01 | 16.50 |      | 130.0 |         |
| 10635-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)  | X | 5.70 | 66.55 | 16.10 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.59 | 66.22 | 15.86 |      | 130.0 |         |
|           |                                                    | Z | 5.59 | 66.41 | 15.96 |      | 130.0 |         |
| 10636-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | X | 6.11 | 67.22 | 16.60 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.05 | 66.97 | 16.42 |      | 130.0 |         |
|           |                                                    | Z | 6.04 | 67.12 | 16.48 |      | 130.0 |         |
| 10637-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle) | X | 6.29 | 67.65 | 16.79 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.23 | 67.43 | 16.63 |      | 130.0 |         |
|           |                                                    | Z | 6.20 | 67.55 | 16.68 |      | 130.0 |         |
| 10638-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle) | X | 6.29 | 67.62 | 16.76 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.23 | 67.40 | 16.60 |      | 130.0 |         |
|           |                                                    | Z | 6.20 | 67.52 | 16.64 |      | 130.0 |         |

|           |                                                        |   |       |        |       |       |       |         |
|-----------|--------------------------------------------------------|---|-------|--------|-------|-------|-------|---------|
| 10639-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)     | X | 6.27  | 67.57  | 16.77 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.19  | 67.29  | 16.58 |       | 130.0 |         |
|           |                                                        | Z | 6.17  | 67.43  | 16.64 |       | 130.0 |         |
| 10640-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)     | X | 6.30  | 67.66  | 16.77 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.20  | 67.34  | 16.55 |       | 130.0 |         |
|           |                                                        | Z | 6.18  | 67.47  | 16.61 |       | 130.0 |         |
| 10641-AAC | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)     | X | 6.30  | 67.43  | 16.67 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.24  | 67.21  | 16.51 |       | 130.0 |         |
|           |                                                        | Z | 6.23  | 67.38  | 16.58 |       | 130.0 |         |
| 10642-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)     | X | 6.35  | 67.69  | 16.96 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.27  | 67.44  | 16.78 |       | 130.0 |         |
|           |                                                        | Z | 6.25  | 67.57  | 16.84 |       | 130.0 |         |
| 10643-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)     | X | 6.19  | 67.43  | 16.74 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.12  | 67.17  | 16.55 |       | 130.0 |         |
|           |                                                        | Z | 6.10  | 67.32  | 16.62 |       | 130.0 |         |
| 10644-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)     | X | 6.42  | 68.12  | 17.10 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.30  | 67.73  | 16.85 |       | 130.0 |         |
|           |                                                        | Z | 6.27  | 67.83  | 16.89 |       | 130.0 |         |
| 10645-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)     | X | 6.96  | 69.23  | 17.61 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.81  | 68.82  | 17.36 |       | 130.0 |         |
|           |                                                        | Z | 6.64  | 68.54  | 17.21 |       | 130.0 |         |
| 10646-AAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)  | X | 36.14 | 117.31 | 38.90 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 37.41 | 119.79 | 39.76 |       | 60.0  |         |
|           |                                                        | Z | 44.85 | 123.68 | 40.74 |       | 60.0  |         |
| 10647-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | X | 38.37 | 119.57 | 39.70 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 37.81 | 120.93 | 40.24 |       | 60.0  |         |
|           |                                                        | Z | 46.89 | 125.67 | 41.46 |       | 60.0  |         |
| 10648-AAA | CDMA2000 (1x Advanced)                                 | X | 0.76  | 64.71  | 11.69 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                        | Y | 0.62  | 62.37  | 9.59  |       | 150.0 |         |
|           |                                                        | Z | 0.65  | 63.27  | 10.28 |       | 150.0 |         |
| 10652-AAB | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)         | X | 4.49  | 69.07  | 17.63 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.22  | 68.27  | 17.06 |       | 80.0  |         |
|           |                                                        | Z | 4.35  | 68.92  | 17.36 |       | 80.0  |         |
| 10653-AAB | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)        | X | 4.93  | 68.17  | 17.64 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.72  | 67.56  | 17.22 |       | 80.0  |         |
|           |                                                        | Z | 4.80  | 68.03  | 17.44 |       | 80.0  |         |
| 10654-AAB | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)        | X | 4.87  | 67.81  | 17.63 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.67  | 67.22  | 17.23 |       | 80.0  |         |
|           |                                                        | Z | 4.76  | 67.67  | 17.45 |       | 80.0  |         |
| 10655-AAB | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)        | X | 4.93  | 67.83  | 17.67 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.74  | 67.21  | 17.27 |       | 80.0  |         |
|           |                                                        | Z | 4.82  | 67.65  | 17.48 |       | 80.0  |         |
| 10658-AAA | Pulse Waveform (200Hz, 10%)                            | X | 13.17 | 86.89  | 23.60 | 10.00 | 50.0  | ± 9.6 % |
|           |                                                        | Y | 14.69 | 88.65  | 23.55 |       | 50.0  |         |
|           |                                                        | Z | 14.49 | 88.55  | 23.74 |       | 50.0  |         |
| 10659-AAA | Pulse Waveform (200Hz, 20%)                            | X | 50.09 | 107.91 | 28.24 | 6.99  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 74.63 | 111.90 | 28.40 |       | 60.0  |         |
|           |                                                        | Z | 82.42 | 114.14 | 29.27 |       | 60.0  |         |

|           |                             |   |        |        |       |      |       |         |
|-----------|-----------------------------|---|--------|--------|-------|------|-------|---------|
| 10660-AAA | Pulse Waveform (200Hz, 40%) | X | 100.00 | 115.90 | 28.07 | 3.98 | 80.0  | ± 9.6 % |
|           |                             | Y | 100.00 | 112.84 | 26.35 |      | 80.0  |         |
|           |                             | Z | 100.00 | 114.41 | 27.18 |      | 80.0  |         |
| 10661-AAA | Pulse Waveform (200Hz, 60%) | X | 100.00 | 116.78 | 26.96 | 2.22 | 100.0 | ± 9.6 % |
|           |                             | Y | 100.00 | 111.69 | 24.44 |      | 100.0 |         |
|           |                             | Z | 100.00 | 114.68 | 25.86 |      | 100.0 |         |
| 10662-AAA | Pulse Waveform (200Hz, 80%) | X | 100.00 | 120.91 | 26.72 | 0.97 | 120.0 | ± 9.6 % |
|           |                             | Y | 100.00 | 108.87 | 21.46 |      | 120.0 |         |
|           |                             | Z | 100.00 | 116.35 | 24.67 |      | 120.0 |         |

<sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **PC Test**

Certificate No: **ES3-3329\_Feb18**

## CALIBRATION CERTIFICATE

Object **ES3DV3 - SN:3329**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-23.v5, QA CAL-25.v6  
Calibration procedure for dosimetric E-field probes**

Calibration date: **February 13, 2018**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature  $(22 \pm 3)^\circ\text{C}$  and humidity  $< 70\%$ .

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards          | ID               | Cal Date (Certificate No.)        | Scheduled Calibration  |
|----------------------------|------------------|-----------------------------------|------------------------|
| Power meter NRP            | SN: 104778       | 04-Apr-17 (No. 217-02521/02522)   | Apr-18                 |
| Power sensor NRP-Z91       | SN: 103244       | 04-Apr-17 (No. 217-02521)         | Apr-18                 |
| Power sensor NRP-Z91       | SN: 103245       | 04-Apr-17 (No. 217-02525)         | Apr-18                 |
| Reference 20 dB Attenuator | SN: S5277 (20x)  | 07-Apr-17 (No. 217-02528)         | Apr-18                 |
| Reference Probe ES3DV2     | SN: 3013         | 30-Dec-17 (No. ES3-3013_Dec17)    | Dec-18                 |
| DAE4                       | SN: 660          | 21-Dec-17 (No. DAE4-660_Dec17)    | Dec-18                 |
| Secondary Standards        | ID               | Check Date (in house)             | Scheduled Check        |
| Power meter E4419B         | SN: GB41293874   | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| Power sensor E4412A        | SN: MY41498087   | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| Power sensor E4412A        | SN: 000110210    | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| RF generator HP 8648C      | SN: US3642U01700 | 04-Aug-99 (in house check Jun-16) | In house check: Jun-18 |
| Network Analyzer HP 8753E  | SN: US37390585   | 18-Oct-01 (in house check Oct-17) | In house check: Oct-18 |

|                                                                                                                 |                              |                                   |                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------|
| Calibrated by:                                                                                                  | Name<br><b>Michael Weber</b> | Function<br>Laboratory Technician | Signature<br> |
| Approved by:                                                                                                    | Name<br><b>Katja Pokovic</b> | Technical Manager                 |               |
|                                                                                                                 |                              |                                   | Issued: February 13, 2018                                                                          |
| This calibration certificate shall not be reproduced except in full without written approval of the laboratory. |                              |                                   |                                                                                                    |



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 Multilateral Agreement for the recognition of calibration certificates

## Glossary:

|                          |                                                                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| TSL                      | tissue simulating liquid                                                                                                                                |
| NORM <sub>x,y,z</sub>    | sensitivity in free space                                                                                                                               |
| ConvF                    | sensitivity in TSL / NORM <sub>x,y,z</sub>                                                                                                              |
| DCP                      | diode compression point                                                                                                                                 |
| CF                       | crest factor (1/duty_cycle) of the RF signal                                                                                                            |
| A, B, C, D               | modulation dependent linearization parameters                                                                                                           |
| Polarization $\varphi$   | $\varphi$ rotation around probe axis                                                                                                                    |
| Polarization $\vartheta$ | $\vartheta$ rotation around an axis that is in the plane normal to probe axis (at measurement center),<br>i.e., $\vartheta = 0$ is normal to probe axis |
| Connector Angle          | information used in DASY system to align probe sensor X to the robot coordinate system                                                                  |

## Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

## Methods Applied and Interpretation of Parameters:

- NORM<sub>x,y,z</sub>**: Assessed for E-field polarization  $\vartheta = 0$  ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not affect the E<sup>2</sup>-field uncertainty inside TSL (see below ConvF).
- NORM(f)<sub>x,y,z</sub> = NORM<sub>x,y,z</sub> \* frequency\_response** (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP<sub>x,y,z</sub>**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A<sub>x,y,z</sub>; B<sub>x,y,z</sub>; C<sub>x,y,z</sub>; D<sub>x,y,z</sub>; VR<sub>x,y,z</sub>; A, B, C, D** are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for  $f \leq 800$  MHz) and inside waveguide using analytical field distributions based on power measurements for  $f > 800$  MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM<sub>x,y,z</sub> \* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from  $\pm 50$  MHz to  $\pm 100$  MHz.
- Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle**: The angle is assessed using the information gained by determining the NORM<sub>x</sub> (no uncertainty required).

# Probe ES3DV3

## SN:3329

Manufactured: January 24, 2012  
Calibrated: February 13, 2018

Calibrated for DASY/EASY Systems  
(Note: non-compatible with DASY2 system!)

## DASY/EASY - Parameters of Probe: ES3DV3 - SN:3329

### Basic Calibration Parameters

|                                                           | Sensor X | Sensor Y | Sensor Z | Unc (k=2)     |
|-----------------------------------------------------------|----------|----------|----------|---------------|
| Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup> | 1.08     | 1.15     | 1.10     | $\pm 10.1 \%$ |
| DCP (mV) <sup>B</sup>                                     | 105.0    | 106.3    | 106.7    |               |

### Modulation Calibration Parameters

| UID | Communication System Name |   | A<br>dB | B<br>dB $\sqrt{\mu\text{V}}$ | C   | D<br>dB | VR<br>mV | Unc <sup>E</sup><br>(k=2) |
|-----|---------------------------|---|---------|------------------------------|-----|---------|----------|---------------------------|
| 0   | CW                        | X | 0.0     | 0.0                          | 1.0 | 0.00    | 192.2    | $\pm 3.5 \%$              |
|     |                           | Y | 0.0     | 0.0                          | 1.0 |         | 202.5    |                           |
|     |                           | Z | 0.0     | 0.0                          | 1.0 |         | 197.3    |                           |

Note: For details on UID parameters see Appendix.

### Sensor Model Parameters

|   | C1<br>fF | C2<br>fF | $\alpha$<br>$\text{V}^{-1}$ | T1<br>$\text{ms}\cdot\text{V}^{-2}$ | T2<br>$\text{ms}\cdot\text{V}^{-1}$ | T3<br>ms | T4<br>$\text{V}^{-2}$ | T5<br>$\text{V}^{-1}$ | T6    |
|---|----------|----------|-----------------------------|-------------------------------------|-------------------------------------|----------|-----------------------|-----------------------|-------|
| X | 61.07    | 442.7    | 35.96                       | 29.67                               | 3.213                               | 5.100    | 0.000                 | 0.729                 | 1.011 |
| Y | 61.44    | 428.6    | 33.77                       | 29.49                               | 3.159                               | 5.087    | 1.026                 | 0.480                 | 1.011 |
| Z | 54.90    | 393.3    | 35.27                       | 28.94                               | 2.446                               | 5.100    | 0.839                 | 0.494                 | 1.010 |

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor  $k=2$ , which for a normal distribution corresponds to a coverage probability of approximately 95%.

<sup>A</sup> The uncertainties of Norm X,Y,Z do not affect the  $E^2$ -field uncertainty inside TSL (see Pages 5 and 6).

<sup>B</sup> Numerical linearization parameter: uncertainty not required.

<sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

## DASY/EASY - Parameters of Probe: ES3DV3 - SN:3329

### Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) <sup>C</sup> | Relative Permittivity <sup>F</sup> | Conductivity (S/m) <sup>F</sup> | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup> (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 750                  | 41.9                               | 0.89                            | 6.79    | 6.79    | 6.79    | 0.59               | 1.32                    | ± 12.0 %  |
| 835                  | 41.5                               | 0.90                            | 6.41    | 6.41    | 6.41    | 0.66               | 1.28                    | ± 12.0 %  |
| 1750                 | 40.1                               | 1.37                            | 5.42    | 5.42    | 5.42    | 0.49               | 1.45                    | ± 12.0 %  |
| 1900                 | 40.0                               | 1.40                            | 5.22    | 5.22    | 5.22    | 0.80               | 1.18                    | ± 12.0 %  |
| 2300                 | 39.5                               | 1.67                            | 4.88    | 4.88    | 4.88    | 0.80               | 1.22                    | ± 12.0 %  |
| 2450                 | 39.2                               | 1.80                            | 4.69    | 4.69    | 4.69    | 0.68               | 1.38                    | ± 12.0 %  |
| 2600                 | 39.0                               | 1.96                            | 4.52    | 4.52    | 4.52    | 0.80               | 1.26                    | ± 12.0 %  |

<sup>C</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

<sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

<sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

## DASY/EASY - Parameters of Probe: ES3DV3 - SN:3329

### Calibration Parameter Determined in Body Tissue Simulating Media

| f (MHz) <sup>C</sup> | Relative Permittivity <sup>F</sup> | Conductivity (S/m) <sup>F</sup> | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup> (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 750                  | 55.5                               | 0.96                            | 6.32    | 6.32    | 6.32    | 0.55               | 1.43                    | ± 12.0 %  |
| 835                  | 55.2                               | 0.97                            | 6.24    | 6.24    | 6.24    | 0.80               | 1.14                    | ± 12.0 %  |
| 1750                 | 53.4                               | 1.49                            | 5.04    | 5.04    | 5.04    | 0.45               | 1.68                    | ± 12.0 %  |
| 1900                 | 53.3                               | 1.52                            | 4.84    | 4.84    | 4.84    | 0.66               | 1.39                    | ± 12.0 %  |
| 2300                 | 52.9                               | 1.81                            | 4.60    | 4.60    | 4.60    | 0.80               | 1.26                    | ± 12.0 %  |
| 2450                 | 52.7                               | 1.95                            | 4.50    | 4.50    | 4.50    | 0.80               | 1.26                    | ± 12.0 %  |
| 2600                 | 52.5                               | 2.16                            | 4.25    | 4.25    | 4.25    | 0.80               | 1.28                    | ± 12.0 %  |

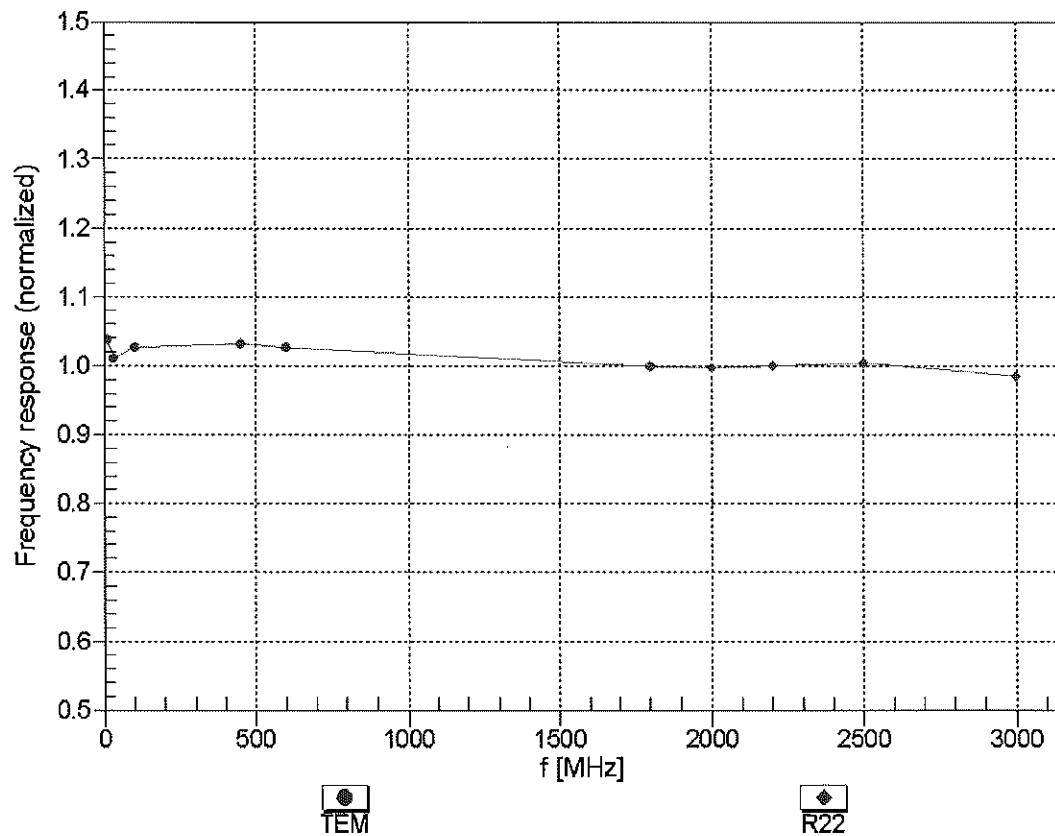
<sup>C</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

<sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

<sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

## Frequency Response of E-Field

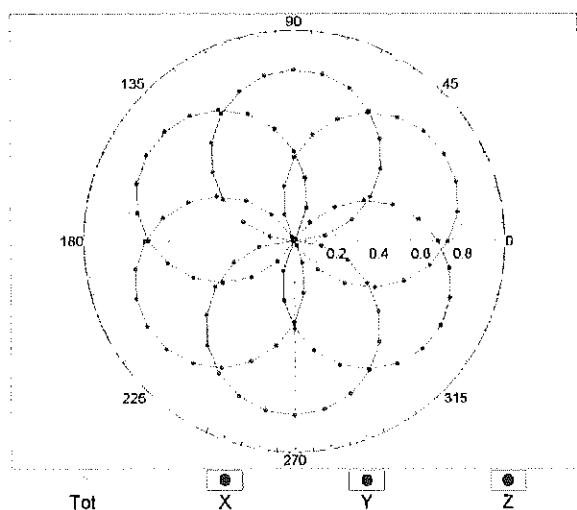
(TEM-Cell: ifi110 EXX, Waveguide: R22)



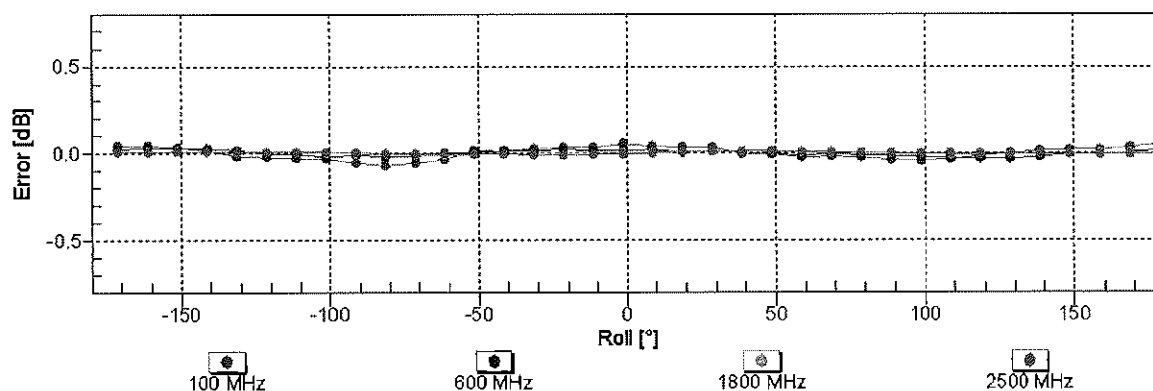
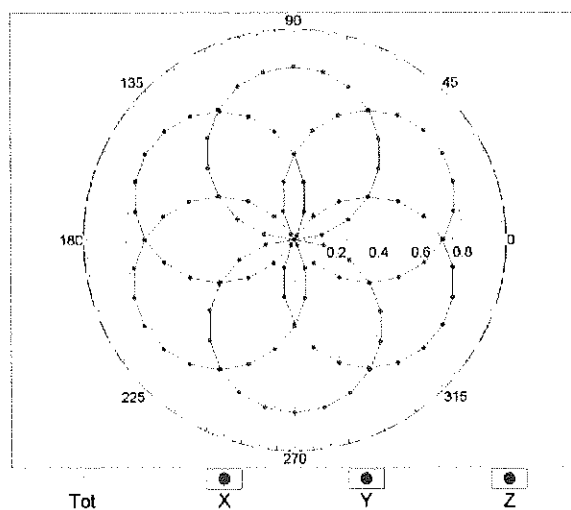
Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  ( $k=2$ )

## Receiving Pattern ( $\phi$ ), $\theta = 0^\circ$

f=600 MHz,TEM

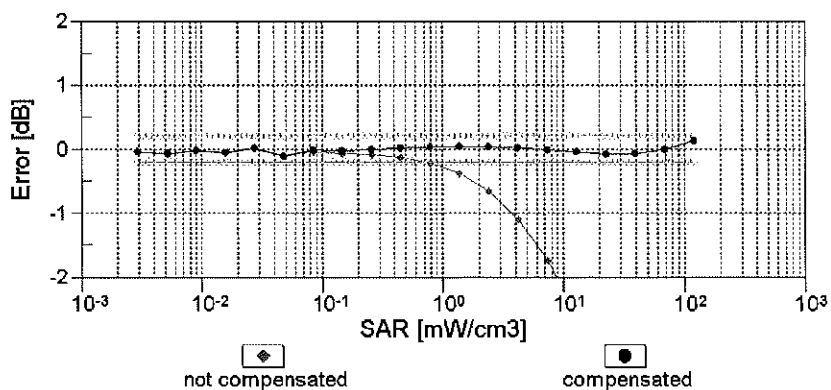
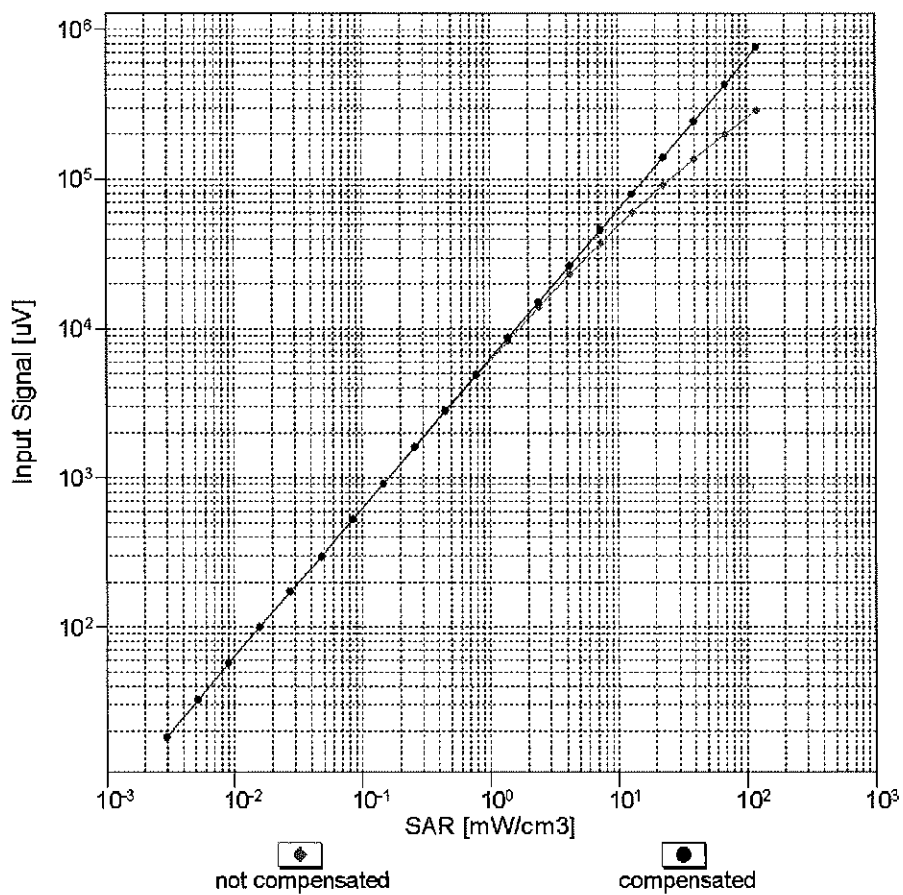


f=1800 MHz,R22



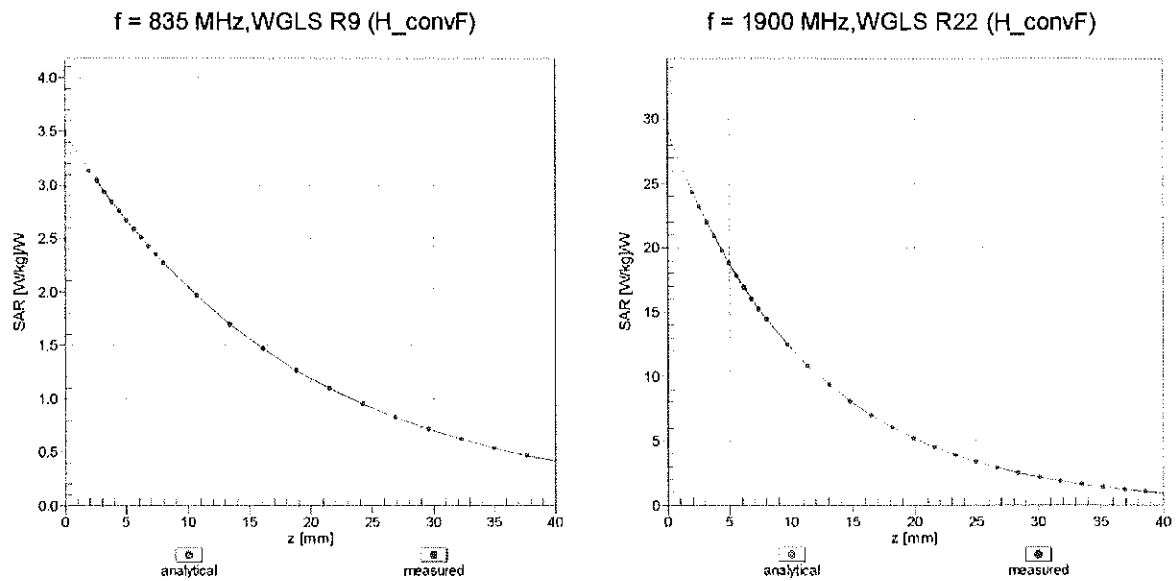
Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  ( $k=2$ )

## Dynamic Range $f(\text{SAR}_{\text{head}})$ (TEM cell , $f_{\text{eval}} = 1900 \text{ MHz}$ )



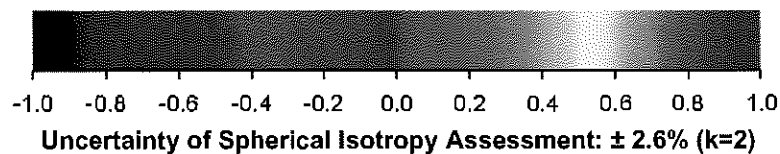
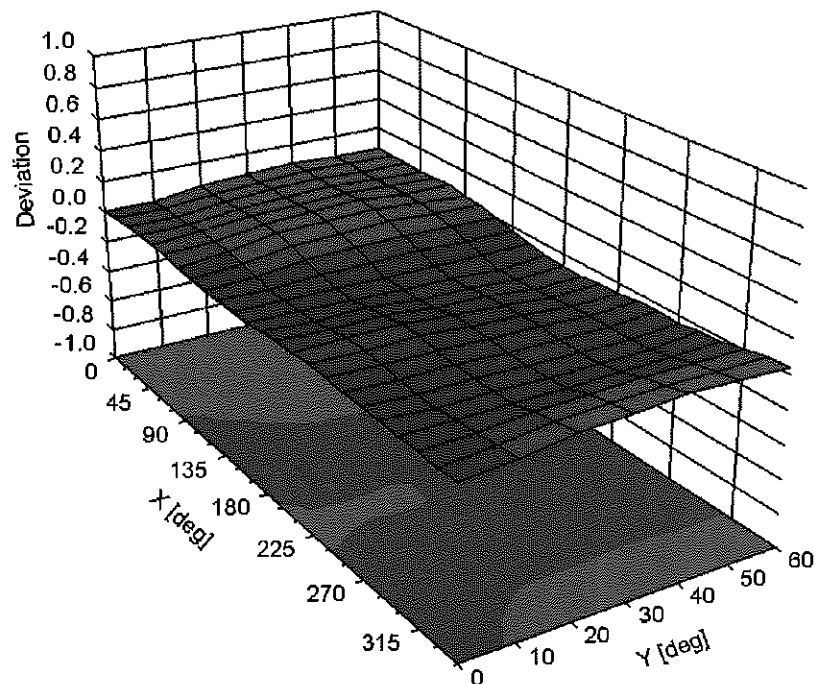
Uncertainty of Linearity Assessment:  $\pm 0.6\%$  ( $k=2$ )

## Conversion Factor Assessment



## Deviation from Isotropy in Liquid

Error ( $\phi, \vartheta$ ),  $f = 900 \text{ MHz}$



## DASY/EASY - Parameters of Probe: ES3DV3 - SN:3329

### Other Probe Parameters

|                                               |            |
|-----------------------------------------------|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle (°)                           | -41.3      |
| Mechanical Surface Detection Mode             | enabled    |
| Optical Surface Detection Mode                | disabled   |
| Probe Overall Length                          | 337 mm     |
| Probe Body Diameter                           | 10 mm      |
| Tip Length                                    | 10 mm      |
| Tip Diameter                                  | 4 mm       |
| Probe Tip to Sensor X Calibration Point       | 2 mm       |
| Probe Tip to Sensor Y Calibration Point       | 2 mm       |
| Probe Tip to Sensor Z Calibration Point       | 2 mm       |
| Recommended Measurement Distance from Surface | 3 mm       |

**Appendix: Modulation Calibration Parameters**

| UID           | Communication System Name                     |   | A<br>dB | B<br>dB $\sqrt{\mu V}$ | C     | D<br>dB | VR<br>mV | Max<br>Unc <sup>E</sup><br>(k=2) |
|---------------|-----------------------------------------------|---|---------|------------------------|-------|---------|----------|----------------------------------|
| 0             | CW                                            | X | 0.00    | 0.00                   | 1.00  | 0.00    | 192.2    | $\pm 3.5 \%$                     |
|               |                                               | Y | 0.00    | 0.00                   | 1.00  |         | 202.5    |                                  |
|               |                                               | Z | 0.00    | 0.00                   | 1.00  |         | 197.3    |                                  |
| 10010-<br>CAA | SAR Validation (Square, 100ms, 10ms)          | X | 8.07    | 78.40                  | 18.85 | 10.00   | 25.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 8.61    | 79.31                  | 19.24 |         | 25.0     |                                  |
|               |                                               | Z | 8.19    | 78.93                  | 18.43 |         | 25.0     |                                  |
| 10011-<br>CAB | UMTS-FDD (WCDMA)                              | X | 0.96    | 66.03                  | 14.14 | 0.00    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 1.13    | 69.20                  | 16.20 |         | 150.0    |                                  |
|               |                                               | Z | 0.97    | 66.57                  | 14.47 |         | 150.0    |                                  |
| 10012-<br>CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)      | X | 1.25    | 64.43                  | 15.20 | 0.41    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 1.33    | 65.74                  | 16.16 |         | 150.0    |                                  |
|               |                                               | Z | 1.25    | 64.71                  | 15.40 |         | 150.0    |                                  |
| 10013-<br>CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) | X | 5.14    | 67.09                  | 17.30 | 1.46    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 5.16    | 67.36                  | 17.40 |         | 150.0    |                                  |
|               |                                               | Z | 5.07    | 67.17                  | 17.31 |         | 150.0    |                                  |
| 10021-<br>DAC | GSM-FDD (TDMA, GMSK)                          | X | 16.53   | 91.68                  | 25.32 | 9.39    | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 15.14   | 89.85                  | 24.66 |         | 50.0     |                                  |
|               |                                               | Z | 30.81   | 101.87                 | 27.81 |         | 50.0     |                                  |
| 10023-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0)                   | X | 15.20   | 90.10                  | 24.85 | 9.57    | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 14.19   | 88.62                  | 24.29 |         | 50.0     |                                  |
|               |                                               | Z | 25.32   | 98.58                  | 26.89 |         | 50.0     |                                  |
| 10024-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1)                 | X | 60.17   | 111.34                 | 29.15 | 6.56    | 60.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 52.16   | 109.06                 | 28.58 |         | 60.0     |                                  |
|               |                                               | Z | 100.00  | 117.39                 | 29.91 |         | 60.0     |                                  |
| 10025-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0)                   | X | 14.66   | 96.30                  | 36.09 | 12.57   | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 18.90   | 103.98                 | 39.13 |         | 50.0     |                                  |
|               |                                               | Z | 16.62   | 102.00                 | 38.52 |         | 50.0     |                                  |
| 10026-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1)                 | X | 16.11   | 96.90                  | 33.05 | 9.56    | 60.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 18.91   | 100.78                 | 34.41 |         | 60.0     |                                  |
|               |                                               | Z | 18.63   | 101.82                 | 34.89 |         | 60.0     |                                  |
| 10027-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2)               | X | 100.00  | 117.13                 | 29.19 | 4.80    | 80.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 117.33                 | 29.34 |         | 80.0     |                                  |
|               |                                               | Z | 100.00  | 115.82                 | 28.27 |         | 80.0     |                                  |
| 10028-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)             | X | 100.00  | 116.44                 | 28.01 | 3.55    | 100.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 117.18                 | 28.42 |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 115.34                 | 27.24 |         | 100.0    |                                  |
| 10029-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2)               | X | 11.84   | 90.67                  | 29.79 | 7.80    | 80.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 13.73   | 94.06                  | 31.03 |         | 80.0     |                                  |
|               |                                               | Z | 12.64   | 93.34                  | 30.88 |         | 80.0     |                                  |
| 10030-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1)           | X | 100.00  | 117.07                 | 29.52 | 5.30    | 70.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 117.17                 | 29.62 |         | 70.0     |                                  |
|               |                                               | Z | 100.00  | 115.56                 | 28.48 |         | 70.0     |                                  |
| 10031-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3)           | X | 100.00  | 115.05                 | 25.78 | 1.88    | 100.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 118.02                 | 27.19 |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 113.95                 | 25.09 |         | 100.0    |                                  |

|           |                                                     |   |        |        |       |       |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10032-CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5)                 | X | 100.00 | 115.57 | 24.87 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 121.99 | 27.72 |       | 100.0 |         |
|           |                                                     | Z | 100.00 | 114.80 | 24.36 |       | 100.0 |         |
| 10033-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)           | X | 12.66  | 90.41  | 24.70 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 14.41  | 92.51  | 25.40 |       | 70.0  |         |
|           |                                                     | Z | 18.21  | 96.60  | 26.32 |       | 70.0  |         |
| 10034-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)           | X | 5.33   | 81.62  | 20.15 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 7.89   | 87.79  | 22.46 |       | 100.0 |         |
|           |                                                     | Z | 6.73   | 85.09  | 21.02 |       | 100.0 |         |
| 10035-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)           | X | 3.21   | 76.20  | 17.85 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 4.73   | 82.27  | 20.39 |       | 100.0 |         |
|           |                                                     | Z | 3.66   | 78.28  | 18.35 |       | 100.0 |         |
| 10036-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1)               | X | 14.60  | 92.93  | 25.57 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 16.63  | 95.04  | 26.25 |       | 70.0  |         |
|           |                                                     | Z | 22.86  | 100.45 | 27.51 |       | 70.0  |         |
| 10037-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3)               | X | 5.14   | 81.15  | 19.94 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 7.61   | 87.30  | 22.26 |       | 100.0 |         |
|           |                                                     | Z | 6.36   | 84.34  | 20.73 |       | 100.0 |         |
| 10038-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5)               | X | 3.30   | 76.79  | 18.16 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 4.92   | 83.08  | 20.75 |       | 100.0 |         |
|           |                                                     | Z | 3.78   | 78.99  | 18.70 |       | 100.0 |         |
| 10039-CAB | CDMA2000 (1xRTT, RC1)                               | X | 1.64   | 69.47  | 14.80 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.19   | 74.15  | 17.28 |       | 150.0 |         |
|           |                                                     | Z | 1.66   | 70.26  | 14.91 |       | 150.0 |         |
| 10042-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | X | 26.03  | 97.68  | 25.48 | 7.78  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 25.12  | 97.01  | 25.30 |       | 50.0  |         |
|           |                                                     | Z | 83.51  | 113.73 | 29.04 |       | 50.0  |         |
| 10044-CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM)                    | X | 0.01   | 122.56 | 1.51  | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.00   | 107.19 | 3.05  |       | 150.0 |         |
|           |                                                     | Z | 0.01   | 122.80 | 0.03  |       | 150.0 |         |
| 10048-CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)           | X | 10.73  | 81.66  | 23.68 | 13.80 | 25.0  | ± 9.6 % |
|           |                                                     | Y | 10.48  | 80.96  | 23.36 |       | 25.0  |         |
|           |                                                     | Z | 12.95  | 85.98  | 24.66 |       | 25.0  |         |
| 10049-CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)         | X | 12.12  | 85.50  | 23.68 | 10.79 | 40.0  | ± 9.6 % |
|           |                                                     | Y | 11.72  | 84.63  | 23.31 |       | 40.0  |         |
|           |                                                     | Z | 15.62  | 90.23  | 24.70 |       | 40.0  |         |
| 10056-CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps)                      | X | 11.53  | 84.83  | 23.78 | 9.03  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 11.84  | 85.17  | 23.88 |       | 50.0  |         |
|           |                                                     | Z | 13.76  | 88.58  | 24.75 |       | 50.0  |         |
| 10058-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)                   | X | 9.13   | 86.05  | 27.39 | 6.55  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 10.43  | 88.99  | 28.51 |       | 100.0 |         |
|           |                                                     | Z | 9.33   | 87.52  | 28.06 |       | 100.0 |         |
| 10059-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)            | X | 1.42   | 66.46  | 16.18 | 0.61  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 1.54   | 68.15  | 17.29 |       | 110.0 |         |
|           |                                                     | Z | 1.41   | 66.83  | 16.44 |       | 110.0 |         |
| 10060-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)          | X | 29.89  | 110.91 | 28.25 | 1.30  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 129.90 | 33.15 |       | 110.0 |         |
|           |                                                     | Z | 100.00 | 128.29 | 32.21 |       | 110.0 |         |

|           |                                                |   |       |       |       |      |       |         |
|-----------|------------------------------------------------|---|-------|-------|-------|------|-------|---------|
| 10061-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)      | X | 7.28  | 89.43 | 24.43 | 2.04 | 110.0 | ± 9.6 % |
|           |                                                | Y | 11.53 | 97.29 | 27.06 |      | 110.0 |         |
|           |                                                | Z | 9.77  | 95.02 | 26.24 |      | 110.0 |         |
| 10062-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)       | X | 4.85  | 66.81 | 16.56 | 0.49 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.87  | 67.12 | 16.70 |      | 100.0 |         |
|           |                                                | Z | 4.78  | 66.91 | 16.59 |      | 100.0 |         |
| 10063-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)       | X | 4.89  | 66.98 | 16.71 | 0.72 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.92  | 67.28 | 16.84 |      | 100.0 |         |
|           |                                                | Z | 4.82  | 67.07 | 16.72 |      | 100.0 |         |
| 10064-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)      | X | 5.23  | 67.34 | 16.99 | 0.86 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.26  | 67.62 | 17.11 |      | 100.0 |         |
|           |                                                | Z | 5.14  | 67.40 | 16.99 |      | 100.0 |         |
| 10065-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)      | X | 5.14  | 67.39 | 17.16 | 1.21 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.17  | 67.68 | 17.28 |      | 100.0 |         |
|           |                                                | Z | 5.05  | 67.43 | 17.16 |      | 100.0 |         |
| 10066-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)      | X | 5.20  | 67.54 | 17.40 | 1.46 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.23  | 67.82 | 17.51 |      | 100.0 |         |
|           |                                                | Z | 5.11  | 67.57 | 17.40 |      | 100.0 |         |
| 10067-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)      | X | 5.53  | 67.72 | 17.87 | 2.04 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.55  | 67.98 | 17.97 |      | 100.0 |         |
|           |                                                | Z | 5.43  | 67.78 | 17.87 |      | 100.0 |         |
| 10068-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)      | X | 5.69  | 68.12 | 18.26 | 2.55 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.71  | 68.39 | 18.36 |      | 100.0 |         |
|           |                                                | Z | 5.57  | 68.10 | 18.23 |      | 100.0 |         |
| 10069-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)      | X | 5.77  | 68.06 | 18.44 | 2.67 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.79  | 68.31 | 18.53 |      | 100.0 |         |
|           |                                                | Z | 5.65  | 68.07 | 18.42 |      | 100.0 |         |
| 10071-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)  | X | 5.30  | 67.36 | 17.70 | 1.99 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.32  | 67.62 | 17.80 |      | 100.0 |         |
|           |                                                | Z | 5.22  | 67.42 | 17.70 |      | 100.0 |         |
| 10072-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | X | 5.37  | 67.94 | 18.02 | 2.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.40  | 68.23 | 18.13 |      | 100.0 |         |
|           |                                                | Z | 5.28  | 67.97 | 18.02 |      | 100.0 |         |
| 10073-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | X | 5.52  | 68.32 | 18.46 | 2.83 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.55  | 68.62 | 18.57 |      | 100.0 |         |
|           |                                                | Z | 5.41  | 68.33 | 18.45 |      | 100.0 |         |
| 10074-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | X | 5.57  | 68.42 | 18.73 | 3.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.60  | 68.73 | 18.84 |      | 100.0 |         |
|           |                                                | Z | 5.45  | 68.41 | 18.70 |      | 100.0 |         |
| 10075-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | X | 5.74  | 68.96 | 19.25 | 3.82 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.79  | 69.30 | 19.38 |      | 90.0  |         |
|           |                                                | Z | 5.60  | 68.87 | 19.19 |      | 90.0  |         |
| 10076-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | X | 5.76  | 68.76 | 19.37 | 4.15 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.80  | 69.11 | 19.50 |      | 90.0  |         |
|           |                                                | Z | 5.63  | 68.70 | 19.33 |      | 90.0  |         |
| 10077-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | X | 5.80  | 68.86 | 19.47 | 4.30 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.84  | 69.22 | 19.61 |      | 90.0  |         |
|           |                                                | Z | 5.67  | 68.80 | 19.43 |      | 90.0  |         |

|           |                                                     |   |        |        |       |      |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10081-CAB | CDMA2000 (1xRTT, RC3)                               | X | 0.81   | 64.73  | 12.00 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.01   | 68.20  | 14.30 |      | 150.0 |         |
|           |                                                     | Z | 0.79   | 65.02  | 11.91 |      | 150.0 |         |
| 10082-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | X | 2.23   | 63.93  | 9.00  | 4.77 | 80.0  | ± 9.6 % |
|           |                                                     | Y | 2.36   | 64.47  | 9.37  |      | 80.0  |         |
|           |                                                     | Z | 1.97   | 63.16  | 8.19  |      | 80.0  |         |
| 10090-DAC | GPRS-FDD (TDMA, GMSK, TN 0-4)                       | X | 58.04  | 110.87 | 29.07 | 6.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 50.11  | 108.52 | 28.47 |      | 60.0  |         |
|           |                                                     | Z | 100.00 | 117.49 | 29.98 |      | 60.0  |         |
| 10097-CAB | UMTS-FDD (HSDPA)                                    | X | 1.75   | 66.57  | 15.02 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.89   | 68.22  | 16.09 |      | 150.0 |         |
|           |                                                     | Z | 1.76   | 67.05  | 15.21 |      | 150.0 |         |
| 10098-CAB | UMTS-FDD (HSUPA, Subtest 2)                         | X | 1.71   | 66.52  | 14.97 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.85   | 68.20  | 16.07 |      | 150.0 |         |
|           |                                                     | Z | 1.72   | 67.00  | 15.17 |      | 150.0 |         |
| 10099-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4)                       | X | 16.06  | 96.79  | 33.01 | 9.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 18.80  | 100.60 | 34.35 |      | 60.0  |         |
|           |                                                     | Z | 18.57  | 101.70 | 34.85 |      | 60.0  |         |
| 10100-CAD | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 3.10   | 69.72  | 16.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.36   | 71.46  | 17.06 |      | 150.0 |         |
|           |                                                     | Z | 3.09   | 70.01  | 16.32 |      | 150.0 |         |
| 10101-CAD | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 3.28   | 67.36  | 15.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.38   | 68.21  | 16.17 |      | 150.0 |         |
|           |                                                     | Z | 3.24   | 67.48  | 15.75 |      | 150.0 |         |
| 10102-CAD | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 3.38   | 67.32  | 15.78 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.48   | 68.09  | 16.23 |      | 150.0 |         |
|           |                                                     | Z | 3.35   | 67.45  | 15.85 |      | 150.0 |         |
| 10103-CAD | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 8.47   | 77.45  | 20.87 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 8.67   | 77.80  | 20.93 |      | 65.0  |         |
|           |                                                     | Z | 8.72   | 78.59  | 21.32 |      | 65.0  |         |
| 10104-CAD | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 8.44   | 76.18  | 21.20 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 8.71   | 76.80  | 21.39 |      | 65.0  |         |
|           |                                                     | Z | 8.41   | 76.75  | 21.43 |      | 65.0  |         |
| 10105-CAD | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 7.75   | 74.49  | 20.75 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 7.68   | 74.33  | 20.60 |      | 65.0  |         |
|           |                                                     | Z | 7.72   | 75.06  | 20.99 |      | 65.0  |         |
| 10108-CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)            | X | 2.73   | 68.97  | 15.96 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.96   | 70.60  | 16.87 |      | 150.0 |         |
|           |                                                     | Z | 2.71   | 69.26  | 16.15 |      | 150.0 |         |
| 10109-CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)          | X | 2.94   | 67.11  | 15.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.05   | 68.01  | 16.11 |      | 150.0 |         |
|           |                                                     | Z | 2.90   | 67.27  | 15.64 |      | 150.0 |         |
| 10110-CAE | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)             | X | 2.23   | 67.99  | 15.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.42   | 69.65  | 16.57 |      | 150.0 |         |
|           |                                                     | Z | 2.20   | 68.31  | 15.75 |      | 150.0 |         |
| 10111-CAE | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)           | X | 2.62   | 67.51  | 15.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.75   | 68.59  | 16.41 |      | 150.0 |         |
|           |                                                     | Z | 2.59   | 67.83  | 15.85 |      | 150.0 |         |

|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10112-CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)     | X | 3.07 | 67.09 | 15.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.17 | 67.91 | 16.13 |      | 150.0 |         |
|           |                                                | Z | 3.03 | 67.25 | 15.70 |      | 150.0 |         |
| 10113-CAE | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)      | X | 2.78 | 67.64 | 15.88 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.90 | 68.63 | 16.49 |      | 150.0 |         |
|           |                                                | Z | 2.75 | 67.97 | 15.99 |      | 150.0 |         |
| 10114-CAC | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)  | X | 5.19 | 67.12 | 16.31 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.21 | 67.43 | 16.45 |      | 150.0 |         |
|           |                                                | Z | 5.15 | 67.24 | 16.36 |      | 150.0 |         |
| 10115-CAC | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)  | X | 5.56 | 67.47 | 16.50 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.58 | 67.73 | 16.60 |      | 150.0 |         |
|           |                                                | Z | 5.51 | 67.57 | 16.54 |      | 150.0 |         |
| 10116-CAC | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | X | 5.32 | 67.41 | 16.38 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.34 | 67.70 | 16.50 |      | 150.0 |         |
|           |                                                | Z | 5.27 | 67.51 | 16.42 |      | 150.0 |         |
| 10117-CAC | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)       | X | 5.19 | 67.14 | 16.34 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.22 | 67.45 | 16.48 |      | 150.0 |         |
|           |                                                | Z | 5.13 | 67.18 | 16.35 |      | 150.0 |         |
| 10118-CAC | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)       | X | 5.64 | 67.65 | 16.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.65 | 67.88 | 16.69 |      | 150.0 |         |
|           |                                                | Z | 5.59 | 67.77 | 16.65 |      | 150.0 |         |
| 10119-CAC | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)      | X | 5.30 | 67.37 | 16.37 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.31 | 67.64 | 16.49 |      | 150.0 |         |
|           |                                                | Z | 5.24 | 67.44 | 16.40 |      | 150.0 |         |
| 10140-CAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)     | X | 3.43 | 67.32 | 15.71 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.53 | 68.10 | 16.15 |      | 150.0 |         |
|           |                                                | Z | 3.39 | 67.45 | 15.77 |      | 150.0 |         |
| 10141-CAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)     | X | 3.55 | 67.40 | 15.87 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.64 | 68.13 | 16.29 |      | 150.0 |         |
|           |                                                | Z | 3.51 | 67.54 | 15.94 |      | 150.0 |         |
| 10142-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)        | X | 2.00 | 67.77 | 15.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.20 | 69.64 | 16.40 |      | 150.0 |         |
|           |                                                | Z | 1.97 | 68.15 | 15.40 |      | 150.0 |         |
| 10143-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)      | X | 2.46 | 67.94 | 15.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.64 | 69.34 | 16.34 |      | 150.0 |         |
|           |                                                | Z | 2.44 | 68.37 | 15.54 |      | 150.0 |         |
| 10144-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)      | X | 2.31 | 66.24 | 14.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.45 | 67.42 | 14.97 |      | 150.0 |         |
|           |                                                | Z | 2.26 | 66.41 | 14.11 |      | 150.0 |         |
| 10145-CAE | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)      | X | 1.33 | 65.37 | 12.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.56 | 67.95 | 14.15 |      | 150.0 |         |
|           |                                                | Z | 1.25 | 65.16 | 11.98 |      | 150.0 |         |
| 10146-CAE | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)    | X | 2.80 | 70.34 | 14.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.95 | 75.22 | 16.88 |      | 150.0 |         |
|           |                                                | Z | 2.61 | 69.56 | 13.72 |      | 150.0 |         |
| 10147-CAE | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)    | X | 3.43 | 73.24 | 16.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.35 | 79.58 | 18.72 |      | 150.0 |         |
|           |                                                | Z | 3.29 | 72.62 | 15.21 |      | 150.0 |         |

|           |                                            |   |      |       |       |      |       |         |
|-----------|--------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10149-CAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 2.95 | 67.16 | 15.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.06 | 68.06 | 16.15 |      | 150.0 |         |
|           |                                            | Z | 2.91 | 67.33 | 15.68 |      | 150.0 |         |
| 10150-CAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 3.07 | 67.13 | 15.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.17 | 67.96 | 16.16 |      | 150.0 |         |
|           |                                            | Z | 3.03 | 67.30 | 15.74 |      | 150.0 |         |
| 10151-CAD | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)    | X | 8.75 | 79.16 | 21.63 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 9.13 | 79.86 | 21.84 |      | 65.0  |         |
|           |                                            | Z | 9.15 | 80.67 | 22.20 |      | 65.0  |         |
| 10152-CAD | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 8.04 | 76.29 | 21.02 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 8.35 | 76.99 | 21.27 |      | 65.0  |         |
|           |                                            | Z | 8.03 | 76.92 | 21.24 |      | 65.0  |         |
| 10153-CAD | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 8.40 | 77.04 | 21.67 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 8.69 | 77.65 | 21.86 |      | 65.0  |         |
|           |                                            | Z | 8.44 | 77.79 | 21.95 |      | 65.0  |         |
| 10154-CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 2.28 | 68.40 | 15.84 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.48 | 70.11 | 16.85 |      | 150.0 |         |
|           |                                            | Z | 2.25 | 68.72 | 16.01 |      | 150.0 |         |
| 10155-CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 2.62 | 67.51 | 15.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.75 | 68.59 | 16.41 |      | 150.0 |         |
|           |                                            | Z | 2.59 | 67.84 | 15.86 |      | 150.0 |         |
| 10156-CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 1.85 | 67.81 | 15.10 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.07 | 69.94 | 16.41 |      | 150.0 |         |
|           |                                            | Z | 1.82 | 68.19 | 15.20 |      | 150.0 |         |
| 10157-CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 2.13 | 66.64 | 14.19 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.30 | 68.13 | 15.17 |      | 150.0 |         |
|           |                                            | Z | 2.08 | 66.86 | 14.12 |      | 150.0 |         |
| 10158-CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 2.78 | 67.69 | 15.92 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.90 | 68.68 | 16.53 |      | 150.0 |         |
|           |                                            | Z | 2.75 | 68.03 | 16.03 |      | 150.0 |         |
| 10159-CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 2.24 | 67.05 | 14.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.42 | 68.57 | 15.45 |      | 150.0 |         |
|           |                                            | Z | 2.19 | 67.30 | 14.40 |      | 150.0 |         |
| 10160-CAD | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)    | X | 2.76 | 68.17 | 15.87 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.89 | 69.27 | 16.54 |      | 150.0 |         |
|           |                                            | Z | 2.74 | 68.43 | 16.02 |      | 150.0 |         |
| 10161-CAD | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 2.97 | 67.01 | 15.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.07 | 67.85 | 16.11 |      | 150.0 |         |
|           |                                            | Z | 2.93 | 67.21 | 15.67 |      | 150.0 |         |
| 10162-CAD | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 3.07 | 67.10 | 15.68 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.17 | 67.90 | 16.18 |      | 150.0 |         |
|           |                                            | Z | 3.04 | 67.33 | 15.77 |      | 150.0 |         |
| 10166-CAE | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 3.88 | 69.86 | 19.25 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.07 | 71.13 | 19.89 |      | 150.0 |         |
|           |                                            | Z | 3.84 | 70.43 | 19.48 |      | 150.0 |         |
| 10167-CAE | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 4.88 | 72.66 | 19.68 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.40 | 74.96 | 20.70 |      | 150.0 |         |
|           |                                            | Z | 4.95 | 73.85 | 20.11 |      | 150.0 |         |

|           |                                            |   |       |        |       |      |       |         |
|-----------|--------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10168-CAE | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 5.33  | 74.59  | 20.84 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.96  | 77.05  | 21.88 |      | 150.0 |         |
|           |                                            | Z | 5.53  | 76.23  | 21.46 |      | 150.0 |         |
| 10169-CAD | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 3.48  | 70.68  | 19.56 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.85  | 73.24  | 20.80 |      | 150.0 |         |
|           |                                            | Z | 3.41  | 71.18  | 19.80 |      | 150.0 |         |
| 10170-CAD | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 4.93  | 76.42  | 21.68 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 6.32  | 81.77  | 23.79 |      | 150.0 |         |
|           |                                            | Z | 5.22  | 78.66  | 22.56 |      | 150.0 |         |
| 10171-AAD | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 4.07  | 72.34  | 19.05 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.93  | 76.44  | 20.78 |      | 150.0 |         |
|           |                                            | Z | 4.11  | 73.55  | 19.49 |      | 150.0 |         |
| 10172-CAD | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 20.65 | 101.47 | 31.06 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 31.52 | 109.71 | 33.41 |      | 65.0  |         |
|           |                                            | Z | 34.36 | 112.95 | 34.46 |      | 65.0  |         |
| 10173-CAD | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 21.15 | 97.89  | 28.48 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 35.42 | 106.81 | 30.87 |      | 65.0  |         |
|           |                                            | Z | 40.86 | 110.71 | 32.02 |      | 65.0  |         |
| 10174-CAD | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 17.83 | 93.78  | 26.75 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 26.77 | 100.61 | 28.61 |      | 65.0  |         |
|           |                                            | Z | 30.50 | 104.11 | 29.66 |      | 65.0  |         |
| 10175-CAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)      | X | 3.44  | 70.34  | 19.31 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.79  | 72.85  | 20.53 |      | 150.0 |         |
|           |                                            | Z | 3.36  | 70.81  | 19.52 |      | 150.0 |         |
| 10176-CAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)    | X | 4.94  | 76.44  | 21.69 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 6.33  | 81.80  | 23.80 |      | 150.0 |         |
|           |                                            | Z | 5.23  | 78.68  | 22.57 |      | 150.0 |         |
| 10177-CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       | X | 3.47  | 70.51  | 19.41 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.82  | 73.04  | 20.64 |      | 150.0 |         |
|           |                                            | Z | 3.39  | 70.99  | 19.63 |      | 150.0 |         |
| 10178-CAE | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)     | X | 4.87  | 76.16  | 21.54 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 6.22  | 81.43  | 23.64 |      | 150.0 |         |
|           |                                            | Z | 5.15  | 78.36  | 22.42 |      | 150.0 |         |
| 10179-CAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)    | X | 4.45  | 74.21  | 20.21 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.55  | 78.90  | 22.12 |      | 150.0 |         |
|           |                                            | Z | 4.60  | 75.89  | 20.86 |      | 150.0 |         |
| 10180-CAE | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)     | X | 4.05  | 72.25  | 18.99 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.90  | 76.32  | 20.72 |      | 150.0 |         |
|           |                                            | Z | 4.09  | 73.45  | 19.43 |      | 150.0 |         |
| 10181-CAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 3.46  | 70.49  | 19.40 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.82  | 73.02  | 20.63 |      | 150.0 |         |
|           |                                            | Z | 3.39  | 70.97  | 19.62 |      | 150.0 |         |
| 10182-CAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)    | X | 4.86  | 76.14  | 21.53 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 6.21  | 81.41  | 23.63 |      | 150.0 |         |
|           |                                            | Z | 5.14  | 78.34  | 22.40 |      | 150.0 |         |
| 10183-AAC | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 4.05  | 72.23  | 18.98 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.89  | 76.29  | 20.70 |      | 150.0 |         |
|           |                                            | Z | 4.08  | 73.42  | 19.42 |      | 150.0 |         |

|           |                                               |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10184-CAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)          | X | 3.47 | 70.53 | 19.43 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.83 | 73.07 | 20.65 |      | 150.0 |         |
|           |                                               | Z | 3.40 | 71.02 | 19.65 |      | 150.0 |         |
| 10185-CAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)        | X | 4.88 | 76.21 | 21.57 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 6.24 | 81.49 | 23.66 |      | 150.0 |         |
|           |                                               | Z | 5.17 | 78.42 | 22.44 |      | 150.0 |         |
| 10186-AAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)        | X | 4.07 | 72.29 | 19.01 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.92 | 76.38 | 20.74 |      | 150.0 |         |
|           |                                               | Z | 4.10 | 73.50 | 19.46 |      | 150.0 |         |
| 10187-CAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)        | X | 3.48 | 70.57 | 19.48 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.84 | 73.12 | 20.71 |      | 150.0 |         |
|           |                                               | Z | 3.41 | 71.07 | 19.71 |      | 150.0 |         |
| 10188-CAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)      | X | 5.05 | 76.91 | 21.95 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 6.53 | 82.41 | 24.11 |      | 150.0 |         |
|           |                                               | Z | 5.39 | 79.28 | 22.89 |      | 150.0 |         |
| 10189-AAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)      | X | 4.16 | 72.73 | 19.29 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.07 | 76.94 | 21.06 |      | 150.0 |         |
|           |                                               | Z | 4.22 | 74.02 | 19.76 |      | 150.0 |         |
| 10193-CAC | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)  | X | 4.61 | 66.51 | 16.06 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.64 | 66.87 | 16.24 |      | 150.0 |         |
|           |                                               | Z | 4.55 | 66.62 | 16.08 |      | 150.0 |         |
| 10194-CAC | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | X | 4.80 | 66.87 | 16.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.84 | 67.24 | 16.35 |      | 150.0 |         |
|           |                                               | Z | 4.74 | 66.97 | 16.20 |      | 150.0 |         |
| 10195-CAC | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | X | 4.84 | 66.89 | 16.19 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.88 | 67.25 | 16.36 |      | 150.0 |         |
|           |                                               | Z | 4.78 | 66.99 | 16.21 |      | 150.0 |         |
| 10196-CAC | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)       | X | 4.62 | 66.61 | 16.09 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.66 | 66.97 | 16.28 |      | 150.0 |         |
|           |                                               | Z | 4.56 | 66.71 | 16.11 |      | 150.0 |         |
| 10197-CAC | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)      | X | 4.82 | 66.90 | 16.19 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.86 | 67.26 | 16.37 |      | 150.0 |         |
|           |                                               | Z | 4.75 | 66.99 | 16.21 |      | 150.0 |         |
| 10198-CAC | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)      | X | 4.85 | 66.91 | 16.20 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.89 | 67.26 | 16.37 |      | 150.0 |         |
|           |                                               | Z | 4.78 | 67.01 | 16.23 |      | 150.0 |         |
| 10219-CAC | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)       | X | 4.57 | 66.61 | 16.05 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.61 | 66.98 | 16.24 |      | 150.0 |         |
|           |                                               | Z | 4.51 | 66.71 | 16.06 |      | 150.0 |         |
| 10220-CAC | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)    | X | 4.82 | 66.89 | 16.19 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.86 | 67.25 | 16.36 |      | 150.0 |         |
|           |                                               | Z | 4.75 | 66.97 | 16.21 |      | 150.0 |         |
| 10221-CAC | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)    | X | 4.85 | 66.85 | 16.19 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.89 | 67.20 | 16.36 |      | 150.0 |         |
|           |                                               | Z | 4.79 | 66.94 | 16.22 |      | 150.0 |         |
| 10222-CAC | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)        | X | 5.17 | 67.15 | 16.34 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.20 | 67.47 | 16.48 |      | 150.0 |         |
|           |                                               | Z | 5.11 | 67.19 | 16.34 |      | 150.0 |         |

|           |                                           |   |       |        |       |      |       |         |
|-----------|-------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10223-CAC | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)  | X | 5.55  | 67.54  | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.56  | 67.79  | 16.66 |      | 150.0 |         |
|           |                                           | Z | 5.44  | 67.42  | 16.49 |      | 150.0 |         |
| 10224-CAC | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) | X | 5.22  | 67.24  | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.25  | 67.58  | 16.46 |      | 150.0 |         |
|           |                                           | Z | 5.16  | 67.28  | 16.32 |      | 150.0 |         |
| 10225-CAB | UMTS-FDD (HSPA+)                          | X | 2.85  | 65.80  | 15.20 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 2.92  | 66.47  | 15.64 |      | 150.0 |         |
|           |                                           | Z | 2.81  | 66.00  | 15.21 |      | 150.0 |         |
| 10226-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  | X | 22.14 | 98.82  | 28.84 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 37.49 | 107.96 | 31.27 |      | 65.0  |         |
|           |                                           | Z | 44.50 | 112.41 | 32.57 |      | 65.0  |         |
| 10227-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)  | X | 19.09 | 95.08  | 27.24 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 28.73 | 101.94 | 29.08 |      | 65.0  |         |
|           |                                           | Z | 34.29 | 106.27 | 30.35 |      | 65.0  |         |
| 10228-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)    | X | 22.15 | 103.34 | 31.74 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 36.55 | 113.02 | 34.44 |      | 65.0  |         |
|           |                                           | Z | 36.13 | 114.45 | 34.99 |      | 65.0  |         |
| 10229-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)    | X | 21.20 | 97.92  | 28.50 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 35.45 | 106.81 | 30.88 |      | 65.0  |         |
|           |                                           | Z | 40.95 | 110.74 | 32.04 |      | 65.0  |         |
| 10230-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)    | X | 18.38 | 94.34  | 26.94 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 27.47 | 101.07 | 28.76 |      | 65.0  |         |
|           |                                           | Z | 32.04 | 104.98 | 29.92 |      | 65.0  |         |
| 10231-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)      | X | 21.17 | 102.36 | 31.37 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 34.67 | 111.87 | 34.05 |      | 65.0  |         |
|           |                                           | Z | 33.59 | 112.89 | 34.48 |      | 65.0  |         |
| 10232-CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)    | X | 21.19 | 97.91  | 28.49 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 35.44 | 106.82 | 30.88 |      | 65.0  |         |
|           |                                           | Z | 40.94 | 110.75 | 32.04 |      | 65.0  |         |
| 10233-CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)    | X | 18.38 | 94.35  | 26.94 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 27.49 | 101.09 | 28.76 |      | 65.0  |         |
|           |                                           | Z | 32.04 | 104.99 | 29.92 |      | 65.0  |         |
| 10234-CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)      | X | 20.23 | 101.32 | 30.96 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 32.74 | 110.57 | 33.59 |      | 65.0  |         |
|           |                                           | Z | 31.30 | 111.29 | 33.93 |      | 65.0  |         |
| 10235-CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)   | X | 21.22 | 97.96  | 28.51 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 35.55 | 106.89 | 30.90 |      | 65.0  |         |
|           |                                           | Z | 41.11 | 110.83 | 32.07 |      | 65.0  |         |
| 10236-CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   | X | 18.50 | 94.44  | 26.97 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 27.71 | 101.21 | 28.79 |      | 65.0  |         |
|           |                                           | Z | 32.35 | 105.13 | 29.96 |      | 65.0  |         |
| 10237-CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)     | X | 21.29 | 102.49 | 31.41 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 35.02 | 112.09 | 34.11 |      | 65.0  |         |
|           |                                           | Z | 33.92 | 113.10 | 34.54 |      | 65.0  |         |
| 10238-CAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   | X | 21.18 | 97.92  | 28.49 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 35.46 | 106.84 | 30.88 |      | 65.0  |         |
|           |                                           | Z | 40.96 | 110.76 | 32.05 |      | 65.0  |         |

|           |                                            |   |       |        |       |      |      |         |
|-----------|--------------------------------------------|---|-------|--------|-------|------|------|---------|
| 10239-CAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 18.37 | 94.36  | 26.95 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 27.50 | 101.12 | 28.77 |      | 65.0 |         |
|           |                                            | Z | 32.04 | 105.01 | 29.93 |      | 65.0 |         |
| 10240-CAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 21.23 | 102.45 | 31.40 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 34.92 | 112.04 | 34.10 |      | 65.0 |         |
|           |                                            | Z | 33.80 | 113.04 | 34.52 |      | 65.0 |         |
| 10241-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 11.76 | 84.83  | 26.66 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 13.38 | 87.87  | 27.79 |      | 65.0 |         |
|           |                                            | Z | 12.52 | 87.35  | 27.56 |      | 65.0 |         |
| 10242-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 11.35 | 84.04  | 26.27 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 12.00 | 85.46  | 26.79 |      | 65.0 |         |
|           |                                            | Z | 12.12 | 86.65  | 27.22 |      | 65.0 |         |
| 10243-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 9.54  | 82.14  | 26.38 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 9.81  | 82.99  | 26.73 |      | 65.0 |         |
|           |                                            | Z | 9.75  | 83.79  | 27.04 |      | 65.0 |         |
| 10244-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   | X | 9.15  | 79.63  | 20.87 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 9.92  | 80.88  | 21.29 |      | 65.0 |         |
|           |                                            | Z | 9.52  | 80.62  | 20.81 |      | 65.0 |         |
| 10245-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   | X | 9.05  | 79.21  | 20.66 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 9.79  | 80.43  | 21.07 |      | 65.0 |         |
|           |                                            | Z | 9.31  | 80.02  | 20.53 |      | 65.0 |         |
| 10246-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)     | X | 8.39  | 80.86  | 21.13 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 9.09  | 82.11  | 21.63 |      | 65.0 |         |
|           |                                            | Z | 9.03  | 82.52  | 21.45 |      | 65.0 |         |
| 10247-CAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 7.44  | 76.75  | 20.10 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.80  | 77.53  | 20.43 |      | 65.0 |         |
|           |                                            | Z | 7.48  | 77.41  | 20.12 |      | 65.0 |         |
| 10248-CAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 7.45  | 76.34  | 19.93 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.82  | 77.13  | 20.26 |      | 65.0 |         |
|           |                                            | Z | 7.43  | 76.85  | 19.89 |      | 65.0 |         |
| 10249-CAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 9.17  | 82.41  | 22.29 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 9.85  | 83.54  | 22.70 |      | 65.0 |         |
|           |                                            | Z | 10.20 | 84.83  | 22.98 |      | 65.0 |         |
| 10250-CAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 8.26  | 78.48  | 21.96 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.59  | 79.15  | 22.18 |      | 65.0 |         |
|           |                                            | Z | 8.44  | 79.59  | 22.32 |      | 65.0 |         |
| 10251-CAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 7.88  | 76.57  | 20.92 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.21  | 77.29  | 21.19 |      | 65.0 |         |
|           |                                            | Z | 7.92  | 77.32  | 21.12 |      | 65.0 |         |
| 10252-CAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 9.18  | 81.73  | 22.64 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 9.71  | 82.62  | 22.93 |      | 65.0 |         |
|           |                                            | Z | 9.99  | 83.97  | 23.42 |      | 65.0 |         |
| 10253-CAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 7.85  | 75.75  | 20.84 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.15  | 76.44  | 21.09 |      | 65.0 |         |
|           |                                            | Z | 7.83  | 76.36  | 21.03 |      | 65.0 |         |
| 10254-CAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 8.22  | 76.49  | 21.44 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.50  | 77.11  | 21.65 |      | 65.0 |         |
|           |                                            | Z | 8.23  | 77.20  | 21.68 |      | 65.0 |         |

|           |                                             |   |      |       |       |      |      |         |
|-----------|---------------------------------------------|---|------|-------|-------|------|------|---------|
| 10255-CAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)     | X | 8.49 | 78.85 | 21.73 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.87 | 79.56 | 21.96 |      | 65.0 |         |
|           |                                             | Z | 8.84 | 80.29 | 22.28 |      | 65.0 |         |
| 10256-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | X | 8.25 | 77.69 | 19.38 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.96 | 78.92 | 19.82 |      | 65.0 |         |
|           |                                             | Z | 8.10 | 77.62 | 18.81 |      | 65.0 |         |
| 10257-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 8.11 | 77.08 | 19.06 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.78 | 78.27 | 19.49 |      | 65.0 |         |
|           |                                             | Z | 7.84 | 76.79 | 18.39 |      | 65.0 |         |
| 10258-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   | X | 7.38 | 78.49 | 19.69 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.04 | 79.82 | 20.25 |      | 65.0 |         |
|           |                                             | Z | 7.42 | 78.94 | 19.47 |      | 65.0 |         |
| 10259-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   | X | 7.76 | 77.34 | 20.74 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.11 | 78.08 | 21.03 |      | 65.0 |         |
|           |                                             | Z | 7.85 | 78.18 | 20.89 |      | 65.0 |         |
| 10260-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   | X | 7.80 | 77.14 | 20.68 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.14 | 77.86 | 20.97 |      | 65.0 |         |
|           |                                             | Z | 7.85 | 77.89 | 20.79 |      | 65.0 |         |
| 10261-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)     | X | 8.88 | 81.60 | 22.27 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 9.48 | 82.65 | 22.65 |      | 65.0 |         |
|           |                                             | Z | 9.67 | 83.76 | 22.93 |      | 65.0 |         |
| 10262-CAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   | X | 8.25 | 78.44 | 21.93 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.59 | 79.11 | 22.15 |      | 65.0 |         |
|           |                                             | Z | 8.43 | 79.53 | 22.28 |      | 65.0 |         |
| 10263-CAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   | X | 7.88 | 76.56 | 20.92 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.21 | 77.28 | 21.19 |      | 65.0 |         |
|           |                                             | Z | 7.91 | 77.31 | 21.12 |      | 65.0 |         |
| 10264-CAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)     | X | 9.13 | 81.60 | 22.57 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 9.66 | 82.50 | 22.87 |      | 65.0 |         |
|           |                                             | Z | 9.91 | 83.80 | 23.34 |      | 65.0 |         |
| 10265-CAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)  | X | 8.04 | 76.29 | 21.02 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.35 | 76.99 | 21.27 |      | 65.0 |         |
|           |                                             | Z | 8.03 | 76.93 | 21.25 |      | 65.0 |         |
| 10266-CAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)  | X | 8.40 | 77.03 | 21.66 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.69 | 77.65 | 21.86 |      | 65.0 |         |
|           |                                             | Z | 8.44 | 77.79 | 21.94 |      | 65.0 |         |
| 10267-CAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)    | X | 8.73 | 79.13 | 21.62 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 9.12 | 79.83 | 21.83 |      | 65.0 |         |
|           |                                             | Z | 9.13 | 80.63 | 22.19 |      | 65.0 |         |
| 10268-CAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)  | X | 8.54 | 75.95 | 21.24 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.80 | 76.51 | 21.41 |      | 65.0 |         |
|           |                                             | Z | 8.51 | 76.49 | 21.46 |      | 65.0 |         |
| 10269-CAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)  | X | 8.48 | 75.58 | 21.16 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.73 | 76.14 | 21.34 |      | 65.0 |         |
|           |                                             | Z | 8.44 | 76.08 | 21.36 |      | 65.0 |         |
| 10270-CAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)    | X | 8.47 | 76.95 | 20.91 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.75 | 77.49 | 21.05 |      | 65.0 |         |
|           |                                             | Z | 8.61 | 77.90 | 21.29 |      | 65.0 |         |

|           |                                                                    |   |       |       |       |      |       |         |
|-----------|--------------------------------------------------------------------|---|-------|-------|-------|------|-------|---------|
| 10274-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)                          | X | 2.57  | 65.91 | 14.95 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.65  | 66.75 | 15.51 |      | 150.0 |         |
|           |                                                                    | Z | 2.56  | 66.20 | 15.02 |      | 150.0 |         |
| 10275-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)                           | X | 1.55  | 66.86 | 14.78 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.73  | 69.03 | 16.15 |      | 150.0 |         |
|           |                                                                    | Z | 1.55  | 67.30 | 15.01 |      | 150.0 |         |
| 10277-CAA | PHS (QPSK)                                                         | X | 5.86  | 69.89 | 14.48 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 6.05  | 70.34 | 14.75 |      | 50.0  |         |
|           |                                                                    | Z | 5.17  | 68.51 | 13.15 |      | 50.0  |         |
| 10278-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.5)                                 | X | 8.84  | 78.67 | 20.45 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 9.10  | 79.10 | 20.64 |      | 50.0  |         |
|           |                                                                    | Z | 8.65  | 78.66 | 19.88 |      | 50.0  |         |
| 10279-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.38)                                | X | 8.99  | 78.85 | 20.53 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 9.26  | 79.30 | 20.73 |      | 50.0  |         |
|           |                                                                    | Z | 8.78  | 78.84 | 19.96 |      | 50.0  |         |
| 10290-AAB | CDMA2000, RC1, SO55, Full Rate                                     | X | 1.41  | 67.32 | 13.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.76  | 70.91 | 15.63 |      | 150.0 |         |
|           |                                                                    | Z | 1.38  | 67.69 | 13.46 |      | 150.0 |         |
| 10291-AAB | CDMA2000, RC3, SO55, Full Rate                                     | X | 0.80  | 64.55 | 11.88 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.99  | 67.90 | 14.14 |      | 150.0 |         |
|           |                                                                    | Z | 0.77  | 64.83 | 11.79 |      | 150.0 |         |
| 10292-AAB | CDMA2000, RC3, SO32, Full Rate                                     | X | 0.91  | 67.06 | 13.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.30  | 72.84 | 16.82 |      | 150.0 |         |
|           |                                                                    | Z | 0.92  | 67.92 | 13.72 |      | 150.0 |         |
| 10293-AAB | CDMA2000, RC3, SO3, Full Rate                                      | X | 1.16  | 70.56 | 15.64 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.94  | 79.07 | 19.83 |      | 150.0 |         |
|           |                                                                    | Z | 1.28  | 72.57 | 16.31 |      | 150.0 |         |
| 10295-AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr.                              | X | 10.28 | 82.46 | 23.66 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 10.22 | 82.35 | 23.63 |      | 50.0  |         |
|           |                                                                    | Z | 11.07 | 84.55 | 24.13 |      | 50.0  |         |
| 10297-AAC | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)                            | X | 2.75  | 69.06 | 16.02 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.97  | 70.70 | 16.94 |      | 150.0 |         |
|           |                                                                    | Z | 2.72  | 69.35 | 16.21 |      | 150.0 |         |
| 10298-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)                             | X | 1.60  | 66.98 | 13.98 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.85  | 69.51 | 15.55 |      | 150.0 |         |
|           |                                                                    | Z | 1.55  | 67.18 | 13.86 |      | 150.0 |         |
| 10299-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)                           | X | 3.26  | 71.90 | 16.17 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 4.33  | 76.24 | 18.03 |      | 150.0 |         |
|           |                                                                    | Z | 3.31  | 72.38 | 15.84 |      | 150.0 |         |
| 10300-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)                           | X | 2.51  | 67.34 | 13.37 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.99  | 69.92 | 14.65 |      | 150.0 |         |
|           |                                                                    | Z | 2.38  | 67.03 | 12.70 |      | 150.0 |         |
| 10301-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)                 | X | 5.82  | 68.37 | 18.81 | 4.17 | 80.0  | ± 9.6 % |
|           |                                                                    | Y | 5.85  | 68.52 | 18.89 |      | 80.0  |         |
|           |                                                                    | Z | 5.64  | 68.23 | 18.69 |      | 80.0  |         |
| 10302-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols) | X | 6.24  | 68.65 | 19.34 | 4.96 | 80.0  | ± 9.6 % |
|           |                                                                    | Y | 6.46  | 69.73 | 19.98 |      | 80.0  |         |
|           |                                                                    | Z | 6.04  | 68.41 | 19.17 |      | 80.0  |         |

|           |                                                                     |   |      |       |       |       |       |         |
|-----------|---------------------------------------------------------------------|---|------|-------|-------|-------|-------|---------|
| 10303-AAA | IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)                 | X | 6.11 | 68.76 | 19.41 | 4.96  | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 6.36 | 69.99 | 20.13 |       | 80.0  |         |
|           |                                                                     | Z | 5.87 | 68.43 | 19.18 |       | 80.0  |         |
| 10304-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)                 | X | 5.71 | 67.96 | 18.56 | 4.17  | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.91 | 68.99 | 19.16 |       | 80.0  |         |
|           |                                                                     | Z | 5.52 | 67.76 | 18.40 |       | 80.0  |         |
| 10305-AAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)    | X | 9.71 | 83.15 | 26.56 | 6.02  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 8.55 | 79.36 | 24.81 |       | 50.0  |         |
|           |                                                                     | Z | 8.37 | 80.35 | 25.26 |       | 50.0  |         |
| 10306-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)    | X | 6.58 | 71.56 | 21.36 | 6.02  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 7.17 | 73.99 | 22.71 |       | 50.0  |         |
|           |                                                                     | Z | 6.20 | 70.83 | 20.91 |       | 50.0  |         |
| 10307-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)     | X | 7.73 | 76.79 | 23.95 | 6.02  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 7.40 | 75.03 | 22.97 |       | 50.0  |         |
|           |                                                                     | Z | 7.01 | 75.12 | 23.08 |       | 50.0  |         |
| 10308-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)                | X | 7.91 | 77.59 | 24.31 | 6.02  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 7.53 | 75.64 | 23.25 |       | 50.0  |         |
|           |                                                                     | Z | 7.15 | 75.83 | 23.42 |       | 50.0  |         |
| 10309-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols) | X | 6.69 | 71.88 | 21.53 | 6.02  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 7.32 | 74.37 | 22.91 |       | 50.0  |         |
|           |                                                                     | Z | 6.29 | 71.12 | 21.08 |       | 50.0  |         |
| 10310-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)  | X | 6.59 | 71.79 | 21.37 | 6.02  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 7.23 | 74.35 | 22.77 |       | 50.0  |         |
|           |                                                                     | Z | 6.84 | 74.35 | 22.83 |       | 50.0  |         |
| 10311-AAC | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                            | X | 3.09 | 68.39 | 15.72 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 3.33 | 69.97 | 16.57 |       | 150.0 |         |
|           |                                                                     | Z | 3.07 | 68.66 | 15.89 |       | 150.0 |         |
| 10313-AAA | iDEN 1:3                                                            | X | 6.65 | 76.15 | 17.85 | 6.99  | 70.0  | ± 9.6 % |
|           |                                                                     | Y | 7.24 | 77.28 | 18.30 |       | 70.0  |         |
|           |                                                                     | Z | 7.04 | 77.40 | 18.09 |       | 70.0  |         |
| 10314-AAA | iDEN 1:6                                                            | X | 8.08 | 80.52 | 21.84 | 10.00 | 30.0  | ± 9.6 % |
|           |                                                                     | Y | 8.77 | 81.69 | 22.24 |       | 30.0  |         |
|           |                                                                     | Z | 9.69 | 84.36 | 23.02 |       | 30.0  |         |
| 10315-AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)           | X | 1.10 | 63.85 | 14.86 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 1.17 | 65.18 | 15.89 |       | 150.0 |         |
|           |                                                                     | Z | 1.10 | 64.15 | 15.08 |       | 150.0 |         |
| 10316-AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)       | X | 4.72 | 66.73 | 16.28 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.75 | 67.07 | 16.44 |       | 150.0 |         |
|           |                                                                     | Z | 4.66 | 66.83 | 16.30 |       | 150.0 |         |
| 10317-AAC | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)             | X | 4.72 | 66.73 | 16.28 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.75 | 67.07 | 16.44 |       | 150.0 |         |
|           |                                                                     | Z | 4.66 | 66.83 | 16.30 |       | 150.0 |         |
| 10400-AAD | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)                 | X | 4.81 | 66.94 | 16.17 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.85 | 67.31 | 16.36 |       | 150.0 |         |
|           |                                                                     | Z | 4.74 | 67.03 | 16.20 |       | 150.0 |         |
| 10401-AAD | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)                 | X | 5.47 | 67.12 | 16.33 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 5.47 | 67.35 | 16.43 |       | 150.0 |         |
|           |                                                                     | Z | 5.42 | 67.24 | 16.37 |       | 150.0 |         |

|           |                                                                                 |   |        |        |       |      |       |         |
|-----------|---------------------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10402-AAD | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)                             | X | 5.76   | 67.60  | 16.41 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.77   | 67.89  | 16.53 |      | 150.0 |         |
|           |                                                                                 | Z | 5.69   | 67.63  | 16.42 |      | 150.0 |         |
| 10403-AAB | CDMA2000 (1xEV-DO, Rev. 0)                                                      | X | 1.41   | 67.32  | 13.54 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                 | Y | 1.76   | 70.91  | 15.63 |      | 115.0 |         |
|           |                                                                                 | Z | 1.38   | 67.69  | 13.46 |      | 115.0 |         |
| 10404-AAB | CDMA2000 (1xEV-DO, Rev. A)                                                      | X | 1.41   | 67.32  | 13.54 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                 | Y | 1.76   | 70.91  | 15.63 |      | 115.0 |         |
|           |                                                                                 | Z | 1.38   | 67.69  | 13.46 |      | 115.0 |         |
| 10406-AAB | CDMA2000, RC3, SO32, SCH0, Full Rate                                            | X | 14.83  | 96.48  | 25.23 | 0.00 | 100.0 | ± 9.6 % |
|           |                                                                                 | Y | 100.00 | 122.55 | 31.30 |      | 100.0 |         |
|           |                                                                                 | Z | 100.00 | 121.31 | 30.49 |      | 100.0 |         |
| 10410-AAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4) | X | 100.00 | 120.29 | 30.84 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                                 | Y | 100.00 | 119.31 | 30.33 |      | 80.0  |         |
|           |                                                                                 | Z | 100.00 | 119.49 | 30.08 |      | 80.0  |         |
| 10415-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)                       | X | 0.96   | 62.37  | 13.97 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 1.01   | 63.50  | 14.95 |      | 150.0 |         |
|           |                                                                                 | Z | 0.96   | 62.65  | 14.18 |      | 150.0 |         |
| 10416-AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)                   | X | 4.61   | 66.55  | 16.10 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.65   | 66.90  | 16.28 |      | 150.0 |         |
|           |                                                                                 | Z | 4.56   | 66.67  | 16.14 |      | 150.0 |         |
| 10417-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)                       | X | 4.61   | 66.55  | 16.10 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.65   | 66.90  | 16.28 |      | 150.0 |         |
|           |                                                                                 | Z | 4.56   | 66.67  | 16.14 |      | 150.0 |         |
| 10418-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)   | X | 4.59   | 66.67  | 16.10 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.63   | 67.04  | 16.29 |      | 150.0 |         |
|           |                                                                                 | Z | 4.54   | 66.80  | 16.14 |      | 150.0 |         |
| 10419-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)  | X | 4.62   | 66.64  | 16.11 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.66   | 67.00  | 16.30 |      | 150.0 |         |
|           |                                                                                 | Z | 4.57   | 66.76  | 16.15 |      | 150.0 |         |
| 10422-AAB | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)                                    | X | 4.75   | 66.66  | 16.14 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.78   | 67.01  | 16.31 |      | 150.0 |         |
|           |                                                                                 | Z | 4.69   | 66.78  | 16.17 |      | 150.0 |         |
| 10423-AAB | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)                                 | X | 4.95   | 67.04  | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.99   | 67.39  | 16.45 |      | 150.0 |         |
|           |                                                                                 | Z | 4.87   | 67.12  | 16.30 |      | 150.0 |         |
| 10424-AAB | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)                                 | X | 4.85   | 66.97  | 16.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.89   | 67.33  | 16.42 |      | 150.0 |         |
|           |                                                                                 | Z | 4.79   | 67.06  | 16.27 |      | 150.0 |         |
| 10425-AAB | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)                                     | X | 5.45   | 67.38  | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.45   | 67.61  | 16.54 |      | 150.0 |         |
|           |                                                                                 | Z | 5.40   | 67.47  | 16.48 |      | 150.0 |         |
| 10426-AAB | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)                                   | X | 5.46   | 67.41  | 16.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.46   | 67.65  | 16.56 |      | 150.0 |         |
|           |                                                                                 | Z | 5.40   | 67.47  | 16.48 |      | 150.0 |         |

|           |                                                                |   |        |        |       |      |       |         |
|-----------|----------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10427-AAB | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)                 | X | 5.47   | 67.40  | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.49   | 67.67  | 16.56 |      | 150.0 |         |
|           |                                                                | Z | 5.41   | 67.45  | 16.47 |      | 150.0 |         |
| 10430-AAB | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)                               | X | 4.25   | 69.89  | 17.82 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.32   | 70.30  | 18.06 |      | 150.0 |         |
|           |                                                                | Z | 4.23   | 70.38  | 17.96 |      | 150.0 |         |
| 10431-AAB | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)                              | X | 4.33   | 67.04  | 16.12 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.38   | 67.47  | 16.36 |      | 150.0 |         |
|           |                                                                | Z | 4.25   | 67.18  | 16.13 |      | 150.0 |         |
| 10432-AAB | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)                              | X | 4.62   | 66.98  | 16.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.67   | 67.37  | 16.39 |      | 150.0 |         |
|           |                                                                | Z | 4.55   | 67.09  | 16.21 |      | 150.0 |         |
| 10433-AAB | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)                              | X | 4.87   | 67.01  | 16.27 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.91   | 67.37  | 16.44 |      | 150.0 |         |
|           |                                                                | Z | 4.80   | 67.10  | 16.29 |      | 150.0 |         |
| 10434-AAA | W-CDMA (BS Test Model 1, 64 DPCH)                              | X | 4.32   | 70.53  | 17.76 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.41   | 71.03  | 18.06 |      | 150.0 |         |
|           |                                                                | Z | 4.31   | 71.11  | 17.90 |      | 150.0 |         |
| 10435-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 120.14 | 30.77 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                | Y | 100.00 | 119.15 | 30.26 |      | 80.0  |         |
|           |                                                                | Z | 100.00 | 119.32 | 30.01 |      | 80.0  |         |
| 10447-AAB | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)                 | X | 3.62   | 66.94  | 15.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.70   | 67.54  | 15.90 |      | 150.0 |         |
|           |                                                                | Z | 3.54   | 67.11  | 15.47 |      | 150.0 |         |
| 10448-AAB | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)                | X | 4.15   | 66.80  | 15.96 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.20   | 67.25  | 16.22 |      | 150.0 |         |
|           |                                                                | Z | 4.08   | 66.95  | 15.98 |      | 150.0 |         |
| 10449-AAB | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)                | X | 4.41   | 66.78  | 16.07 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.46   | 67.19  | 16.29 |      | 150.0 |         |
|           |                                                                | Z | 4.35   | 66.90  | 16.10 |      | 150.0 |         |
| 10450-AAB | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)                | X | 4.60   | 66.74  | 16.10 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.64   | 67.13  | 16.30 |      | 150.0 |         |
|           |                                                                | Z | 4.54   | 66.85  | 16.13 |      | 150.0 |         |
| 10451-AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)                | X | 3.53   | 67.14  | 15.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.64   | 67.84  | 15.66 |      | 150.0 |         |
|           |                                                                | Z | 3.44   | 67.29  | 15.12 |      | 150.0 |         |
| 10456-AAB | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)           | X | 6.31   | 68.02  | 16.65 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 6.31   | 68.25  | 16.72 |      | 150.0 |         |
|           |                                                                | Z | 6.26   | 68.04  | 16.65 |      | 150.0 |         |
| 10457-AAA | UMTS-FDD (DC-HSDPA)                                            | X | 3.80   | 65.18  | 15.82 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.83   | 65.54  | 16.02 |      | 150.0 |         |
|           |                                                                | Z | 3.78   | 65.29  | 15.84 |      | 150.0 |         |
| 10458-AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)                         | X | 3.91   | 69.56  | 17.15 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.01   | 70.13  | 17.52 |      | 150.0 |         |
|           |                                                                | Z | 3.93   | 70.26  | 17.29 |      | 150.0 |         |
| 10459-AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)                         | X | 5.07   | 67.40  | 17.80 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.12   | 67.64  | 17.91 |      | 150.0 |         |
|           |                                                                | Z | 5.05   | 67.94  | 17.95 |      | 150.0 |         |

|           |                                                                   |   |        |        |       |      |       |         |
|-----------|-------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10460-AAA | UMTS-FDD (WCDMA, AMR)                                             | X | 0.80   | 66.25  | 14.61 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                   | Y | 0.98   | 70.12  | 17.14 |      | 150.0 |         |
|           |                                                                   | Z | 0.82   | 67.01  | 15.08 |      | 150.0 |         |
| 10461-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 122.22 | 31.81 | 3.29 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 122.28 | 31.77 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 123.03 | 31.78 |      | 80.0  |         |
| 10462-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 89.65  | 108.48 | 25.59 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 108.89 | 25.35 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 107.86 | 24.57 |      | 80.0  |         |
| 10463-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 22.51  | 90.76  | 20.66 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 99.99  | 106.28 | 24.09 |      | 80.0  |         |
|           |                                                                   | Z | 26.96  | 91.52  | 20.00 |      | 80.0  |         |
| 10464-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 120.48 | 30.86 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 120.55 | 30.82 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 121.00 | 30.69 |      | 80.0  |         |
| 10465-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 43.12  | 99.66  | 23.41 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 108.45 | 25.13 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 107.36 | 24.32 |      | 80.0  |         |
| 10466-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 14.46  | 85.63  | 19.16 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 47.56  | 97.97  | 22.07 |      | 80.0  |         |
|           |                                                                   | Z | 13.86  | 84.47  | 18.03 |      | 80.0  |         |
| 10467-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 120.66 | 30.94 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 120.74 | 30.91 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 121.22 | 30.79 |      | 80.0  |         |
| 10468-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 51.08  | 101.72 | 23.94 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 108.59 | 25.19 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 107.51 | 24.40 |      | 80.0  |         |
| 10469-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 14.72  | 85.83  | 19.22 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 49.52  | 98.40  | 22.18 |      | 80.0  |         |
|           |                                                                   | Z | 14.20  | 84.72  | 18.10 |      | 80.0  |         |
| 10470-AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 120.68 | 30.94 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 120.76 | 30.91 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 121.24 | 30.79 |      | 80.0  |         |
| 10471-AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 51.16  | 101.71 | 23.92 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 108.54 | 25.17 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 107.46 | 24.37 |      | 80.0  |         |
| 10472-AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 14.72  | 85.81  | 19.20 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 49.74  | 98.42  | 22.17 |      | 80.0  |         |
|           |                                                                   | Z | 14.09  | 84.62  | 18.06 |      | 80.0  |         |
| 10473-AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 120.66 | 30.93 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 120.74 | 30.90 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 121.21 | 30.78 |      | 80.0  |         |
| 10474-AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 50.22  | 101.50 | 23.87 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 108.55 | 25.17 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 107.47 | 24.37 |      | 80.0  |         |
| 10475-AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 14.54  | 85.69  | 19.17 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 48.73  | 98.21  | 22.12 |      | 80.0  |         |
|           |                                                                   | Z | 13.88  | 84.48  | 18.02 |      | 80.0  |         |

|           |                                                                     |   |        |        |       |      |      |         |
|-----------|---------------------------------------------------------------------|---|--------|--------|-------|------|------|---------|
| 10477-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)    | X | 44.75  | 100.06 | 23.49 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 108.41 | 25.10 |      | 80.0 |         |
|           |                                                                     | Z | 100.00 | 107.31 | 24.29 |      | 80.0 |         |
| 10478-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)    | X | 14.36  | 85.53  | 19.11 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 47.45  | 97.89  | 22.03 |      | 80.0 |         |
|           |                                                                     | Z | 13.59  | 84.23  | 17.94 |      | 80.0 |         |
| 10479-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 11.68  | 89.98  | 24.75 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 15.50  | 94.63  | 26.20 |      | 80.0 |         |
|           |                                                                     | Z | 19.65  | 98.59  | 27.01 |      | 80.0 |         |
| 10480-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 11.85  | 85.61  | 21.94 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 17.00  | 90.84  | 23.50 |      | 80.0 |         |
|           |                                                                     | Z | 18.94  | 92.21  | 23.43 |      | 80.0 |         |
| 10481-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 10.48  | 83.24  | 20.87 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 14.56  | 87.91  | 22.29 |      | 80.0 |         |
|           |                                                                     | Z | 14.75  | 87.95  | 21.81 |      | 80.0 |         |
| 10482-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 4.86   | 75.76  | 18.52 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 6.17   | 79.38  | 19.99 |      | 80.0 |         |
|           |                                                                     | Z | 5.29   | 77.51  | 18.93 |      | 80.0 |         |
| 10483-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 8.11   | 80.27  | 20.27 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 9.67   | 82.93  | 21.21 |      | 80.0 |         |
|           |                                                                     | Z | 9.18   | 82.16  | 20.45 |      | 80.0 |         |
| 10484-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 7.59   | 79.10  | 19.86 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 8.93   | 81.58  | 20.76 |      | 80.0 |         |
|           |                                                                     | Z | 8.26   | 80.48  | 19.89 |      | 80.0 |         |
| 10485-AAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 5.18   | 76.73  | 19.54 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 6.33   | 79.90  | 20.81 |      | 80.0 |         |
|           |                                                                     | Z | 5.63   | 78.69  | 20.17 |      | 80.0 |         |
| 10486-AAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.50   | 71.88  | 17.42 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.03   | 73.65  | 18.23 |      | 80.0 |         |
|           |                                                                     | Z | 4.58   | 72.73  | 17.57 |      | 80.0 |         |
| 10487-AAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.49   | 71.51  | 17.27 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.98   | 73.17  | 18.04 |      | 80.0 |         |
|           |                                                                     | Z | 4.53   | 72.24  | 17.37 |      | 80.0 |         |
| 10488-AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 5.30   | 75.62  | 19.60 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 6.12   | 78.00  | 20.55 |      | 80.0 |         |
|           |                                                                     | Z | 5.50   | 76.96  | 20.13 |      | 80.0 |         |
| 10489-AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 4.67   | 71.32  | 18.11 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.02   | 72.60  | 18.67 |      | 80.0 |         |
|           |                                                                     | Z | 4.67   | 71.98  | 18.34 |      | 80.0 |         |
| 10490-AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 4.75   | 71.05  | 18.03 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.07   | 72.23  | 18.56 |      | 80.0 |         |
|           |                                                                     | Z | 4.74   | 71.67  | 18.24 |      | 80.0 |         |
| 10491-AAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 5.25   | 73.59  | 18.95 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.80   | 75.30  | 19.65 |      | 80.0 |         |
|           |                                                                     | Z | 5.32   | 74.46  | 19.33 |      | 80.0 |         |
| 10492-AAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 4.94   | 70.41  | 17.99 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.21   | 71.41  | 18.42 |      | 80.0 |         |
|           |                                                                     | Z | 4.89   | 70.85  | 18.17 |      | 80.0 |         |

|           |                                                                      |   |      |       |       |      |      |         |
|-----------|----------------------------------------------------------------------|---|------|-------|-------|------|------|---------|
| 10493-AAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 5.00 | 70.23 | 17.94 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.25 | 71.18 | 18.35 |      | 80.0 |         |
|           |                                                                      | Z | 4.94 | 70.65 | 18.11 |      | 80.0 |         |
| 10494-AAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 5.77 | 75.18 | 19.38 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 6.51 | 77.24 | 20.19 |      | 80.0 |         |
|           |                                                                      | Z | 5.91 | 76.23 | 19.83 |      | 80.0 |         |
| 10495-AAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 5.02 | 70.92 | 18.19 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.32 | 71.99 | 18.65 |      | 80.0 |         |
|           |                                                                      | Z | 4.98 | 71.36 | 18.38 |      | 80.0 |         |
| 10496-AAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 5.07 | 70.56 | 18.09 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.34 | 71.53 | 18.51 |      | 80.0 |         |
|           |                                                                      | Z | 5.01 | 70.96 | 18.27 |      | 80.0 |         |
| 10497-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 3.86 | 72.54 | 16.62 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.99 | 76.26 | 18.22 |      | 80.0 |         |
|           |                                                                      | Z | 3.91 | 73.12 | 16.47 |      | 80.0 |         |
| 10498-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.11 | 67.19 | 13.57 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.71 | 69.63 | 14.80 |      | 80.0 |         |
|           |                                                                      | Z | 2.77 | 66.23 | 12.69 |      | 80.0 |         |
| 10499-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.05 | 66.68 | 13.23 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.62 | 69.02 | 14.43 |      | 80.0 |         |
|           |                                                                      | Z | 2.68 | 65.57 | 12.26 |      | 80.0 |         |
| 10500-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 5.09 | 75.81 | 19.42 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 6.01 | 78.50 | 20.51 |      | 80.0 |         |
|           |                                                                      | Z | 5.40 | 77.46 | 19.99 |      | 80.0 |         |
| 10501-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.57 | 71.58 | 17.65 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.00 | 73.09 | 18.34 |      | 80.0 |         |
|           |                                                                      | Z | 4.62 | 72.38 | 17.84 |      | 80.0 |         |
| 10502-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.61 | 71.37 | 17.53 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.03 | 72.81 | 18.20 |      | 80.0 |         |
|           |                                                                      | Z | 4.65 | 72.12 | 17.70 |      | 80.0 |         |
| 10503-AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 5.24 | 75.43 | 19.52 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 6.04 | 77.79 | 20.47 |      | 80.0 |         |
|           |                                                                      | Z | 5.43 | 76.74 | 20.03 |      | 80.0 |         |
| 10504-AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.65 | 71.24 | 18.06 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.00 | 72.52 | 18.63 |      | 80.0 |         |
|           |                                                                      | Z | 4.65 | 71.88 | 18.28 |      | 80.0 |         |
| 10505-AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.72 | 70.97 | 17.98 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.05 | 72.14 | 18.51 |      | 80.0 |         |
|           |                                                                      | Z | 4.71 | 71.57 | 18.19 |      | 80.0 |         |
| 10506-AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 5.72 | 75.04 | 19.31 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 6.46 | 77.10 | 20.12 |      | 80.0 |         |
|           |                                                                      | Z | 5.86 | 76.07 | 19.76 |      | 80.0 |         |
| 10507-AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 5.00 | 70.86 | 18.16 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.30 | 71.93 | 18.61 |      | 80.0 |         |
|           |                                                                      | Z | 4.96 | 71.29 | 18.35 |      | 80.0 |         |

|           |                                                                     |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10508-AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.05 | 70.49 | 18.05 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.32 | 71.47 | 18.47 |      | 80.0  |         |
|           |                                                                     | Z | 5.00 | 70.89 | 18.22 |      | 80.0  |         |
| 10509-AAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 5.79 | 73.26 | 18.66 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 6.30 | 74.77 | 19.26 |      | 80.0  |         |
|           |                                                                     | Z | 5.83 | 73.95 | 18.98 |      | 80.0  |         |
| 10510-AAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.44 | 70.40 | 18.06 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.70 | 71.30 | 18.43 |      | 80.0  |         |
|           |                                                                     | Z | 5.37 | 70.70 | 18.20 |      | 80.0  |         |
| 10511-AAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.47 | 70.09 | 17.99 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.70 | 70.93 | 18.33 |      | 80.0  |         |
|           |                                                                     | Z | 5.39 | 70.37 | 18.12 |      | 80.0  |         |
| 10512-AAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 6.19 | 74.99 | 19.17 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 6.94 | 76.94 | 19.92 |      | 80.0  |         |
|           |                                                                     | Z | 6.32 | 75.89 | 19.56 |      | 80.0  |         |
| 10513-AAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.37 | 70.83 | 18.21 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.66 | 71.83 | 18.62 |      | 80.0  |         |
|           |                                                                     | Z | 5.31 | 71.14 | 18.36 |      | 80.0  |         |
| 10514-AAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 5.34 | 70.33 | 18.07 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.59 | 71.24 | 18.45 |      | 80.0  |         |
|           |                                                                     | Z | 5.27 | 70.61 | 18.21 |      | 80.0  |         |
| 10515-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)           | X | 0.92 | 62.50 | 13.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.97 | 63.73 | 15.04 |      | 150.0 |         |
|           |                                                                     | Z | 0.92 | 62.80 | 14.21 |      | 150.0 |         |
| 10516-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)         | X | 0.48 | 67.10 | 14.61 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.75 | 75.19 | 19.48 |      | 150.0 |         |
|           |                                                                     | Z | 0.51 | 68.45 | 15.49 |      | 150.0 |         |
| 10517-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)          | X | 0.76 | 63.99 | 14.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.84 | 66.19 | 15.95 |      | 150.0 |         |
|           |                                                                     | Z | 0.76 | 64.44 | 14.58 |      | 150.0 |         |
| 10518-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)           | X | 4.60 | 66.62 | 16.08 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.64 | 66.98 | 16.27 |      | 150.0 |         |
|           |                                                                     | Z | 4.55 | 66.74 | 16.11 |      | 150.0 |         |
| 10519-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)          | X | 4.82 | 66.92 | 16.23 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.86 | 67.27 | 16.41 |      | 150.0 |         |
|           |                                                                     | Z | 4.75 | 67.01 | 16.25 |      | 150.0 |         |
| 10520-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)          | X | 4.67 | 66.88 | 16.14 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.71 | 67.25 | 16.33 |      | 150.0 |         |
|           |                                                                     | Z | 4.60 | 66.96 | 16.16 |      | 150.0 |         |
| 10521-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)          | X | 4.60 | 66.87 | 16.12 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.64 | 67.26 | 16.32 |      | 150.0 |         |
|           |                                                                     | Z | 4.53 | 66.96 | 16.15 |      | 150.0 |         |
| 10522-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)          | X | 4.65 | 66.87 | 16.17 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.69 | 67.24 | 16.36 |      | 150.0 |         |
|           |                                                                     | Z | 4.59 | 67.01 | 16.21 |      | 150.0 |         |

|           |                                                            |   |      |       |       |      |       |         |
|-----------|------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10523-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | X | 4.52 | 66.75 | 16.01 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.56 | 67.14 | 16.21 |      | 150.0 |         |
|           |                                                            | Z | 4.46 | 66.87 | 16.05 |      | 150.0 |         |
| 10524-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) | X | 4.60 | 66.82 | 16.15 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.64 | 67.20 | 16.34 |      | 150.0 |         |
|           |                                                            | Z | 4.53 | 66.94 | 16.19 |      | 150.0 |         |
| 10525-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)          | X | 4.56 | 65.84 | 15.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.60 | 66.23 | 15.93 |      | 150.0 |         |
|           |                                                            | Z | 4.51 | 65.97 | 15.77 |      | 150.0 |         |
| 10526-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)          | X | 4.75 | 66.24 | 15.88 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.80 | 66.63 | 16.08 |      | 150.0 |         |
|           |                                                            | Z | 4.69 | 66.35 | 15.92 |      | 150.0 |         |
| 10527-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)          | X | 4.67 | 66.20 | 15.83 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.71 | 66.61 | 16.03 |      | 150.0 |         |
|           |                                                            | Z | 4.61 | 66.31 | 15.86 |      | 150.0 |         |
| 10528-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)          | X | 4.69 | 66.23 | 15.86 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.73 | 66.63 | 16.07 |      | 150.0 |         |
|           |                                                            | Z | 4.62 | 66.33 | 15.90 |      | 150.0 |         |
| 10529-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)          | X | 4.69 | 66.23 | 15.86 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.73 | 66.63 | 16.07 |      | 150.0 |         |
|           |                                                            | Z | 4.62 | 66.33 | 15.90 |      | 150.0 |         |
| 10531-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)          | X | 4.69 | 66.36 | 15.88 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.74 | 66.78 | 16.09 |      | 150.0 |         |
|           |                                                            | Z | 4.62 | 66.45 | 15.91 |      | 150.0 |         |
| 10532-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)          | X | 4.54 | 66.21 | 15.82 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.59 | 66.65 | 16.04 |      | 150.0 |         |
|           |                                                            | Z | 4.48 | 66.30 | 15.84 |      | 150.0 |         |
| 10533-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)          | X | 4.70 | 66.25 | 15.84 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.75 | 66.65 | 16.04 |      | 150.0 |         |
|           |                                                            | Z | 4.63 | 66.37 | 15.88 |      | 150.0 |         |
| 10534-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)          | X | 5.21 | 66.43 | 15.95 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.24 | 66.77 | 16.11 |      | 150.0 |         |
|           |                                                            | Z | 5.16 | 66.50 | 15.98 |      | 150.0 |         |
| 10535-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)          | X | 5.28 | 66.56 | 16.01 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.31 | 66.91 | 16.16 |      | 150.0 |         |
|           |                                                            | Z | 5.22 | 66.66 | 16.05 |      | 150.0 |         |
| 10536-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)          | X | 5.15 | 66.54 | 15.98 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.18 | 66.90 | 16.14 |      | 150.0 |         |
|           |                                                            | Z | 5.09 | 66.61 | 16.01 |      | 150.0 |         |
| 10537-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)          | X | 5.21 | 66.53 | 15.98 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.24 | 66.87 | 16.13 |      | 150.0 |         |
|           |                                                            | Z | 5.15 | 66.59 | 16.00 |      | 150.0 |         |
| 10538-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)          | X | 5.33 | 66.61 | 16.06 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.36 | 66.94 | 16.20 |      | 150.0 |         |
|           |                                                            | Z | 5.25 | 66.64 | 16.07 |      | 150.0 |         |
| 10540-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)          | X | 5.23 | 66.55 | 16.04 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.26 | 66.88 | 16.19 |      | 150.0 |         |
|           |                                                            | Z | 5.17 | 66.62 | 16.07 |      | 150.0 |         |

|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10541-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)  | X | 5.21 | 66.44 | 15.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.24 | 66.80 | 16.15 |      | 150.0 |         |
|           |                                                    | Z | 5.14 | 66.49 | 16.00 |      | 150.0 |         |
| 10542-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)  | X | 5.37 | 66.51 | 16.04 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.39 | 66.83 | 16.18 |      | 150.0 |         |
|           |                                                    | Z | 5.30 | 66.57 | 16.06 |      | 150.0 |         |
| 10543-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)  | X | 5.45 | 66.53 | 16.06 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.48 | 66.85 | 16.20 |      | 150.0 |         |
|           |                                                    | Z | 5.39 | 66.62 | 16.10 |      | 150.0 |         |
| 10544-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)  | X | 5.50 | 66.54 | 15.95 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.52 | 66.88 | 16.09 |      | 150.0 |         |
|           |                                                    | Z | 5.45 | 66.61 | 15.97 |      | 150.0 |         |
| 10545-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)  | X | 5.72 | 66.99 | 16.12 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.73 | 67.26 | 16.22 |      | 150.0 |         |
|           |                                                    | Z | 5.66 | 67.05 | 16.14 |      | 150.0 |         |
| 10546-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)  | X | 5.59 | 66.83 | 16.05 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.62 | 67.16 | 16.19 |      | 150.0 |         |
|           |                                                    | Z | 5.54 | 66.86 | 16.06 |      | 150.0 |         |
| 10547-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)  | X | 5.68 | 66.90 | 16.08 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.71 | 67.24 | 16.22 |      | 150.0 |         |
|           |                                                    | Z | 5.62 | 66.94 | 16.09 |      | 150.0 |         |
| 10548-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)  | X | 6.05 | 68.17 | 16.68 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.97 | 68.18 | 16.66 |      | 150.0 |         |
|           |                                                    | Z | 5.94 | 68.05 | 16.62 |      | 150.0 |         |
| 10550-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)  | X | 5.61 | 66.78 | 16.04 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.64 | 67.11 | 16.18 |      | 150.0 |         |
|           |                                                    | Z | 5.56 | 66.84 | 16.06 |      | 150.0 |         |
| 10551-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)  | X | 5.63 | 66.87 | 16.04 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.65 | 67.20 | 16.18 |      | 150.0 |         |
|           |                                                    | Z | 5.56 | 66.89 | 16.05 |      | 150.0 |         |
| 10552-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)  | X | 5.52 | 66.62 | 15.93 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.55 | 66.97 | 16.08 |      | 150.0 |         |
|           |                                                    | Z | 5.47 | 66.67 | 15.95 |      | 150.0 |         |
| 10553-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)  | X | 5.62 | 66.68 | 15.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.65 | 67.02 | 16.13 |      | 150.0 |         |
|           |                                                    | Z | 5.56 | 66.73 | 16.01 |      | 150.0 |         |
| 10554-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle) | X | 5.90 | 66.94 | 16.06 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.92 | 67.25 | 16.18 |      | 150.0 |         |
|           |                                                    | Z | 5.86 | 66.99 | 16.08 |      | 150.0 |         |
| 10555-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle) | X | 6.05 | 67.28 | 16.20 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 6.07 | 67.58 | 16.32 |      | 150.0 |         |
|           |                                                    | Z | 6.00 | 67.31 | 16.21 |      | 150.0 |         |
| 10556-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle) | X | 6.07 | 67.30 | 16.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 6.08 | 67.59 | 16.32 |      | 150.0 |         |
|           |                                                    | Z | 6.02 | 67.35 | 16.22 |      | 150.0 |         |
| 10557-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle) | X | 6.05 | 67.25 | 16.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 6.06 | 67.56 | 16.33 |      | 150.0 |         |
|           |                                                    | Z | 5.99 | 67.27 | 16.21 |      | 150.0 |         |

|           |                                                                 |   |       |        |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10558-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)              | X | 6.11  | 67.46  | 16.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.12  | 67.74  | 16.43 |      | 150.0 |         |
|           |                                                                 | Z | 6.05  | 67.45  | 16.31 |      | 150.0 |         |
| 10560-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)              | X | 6.10  | 67.26  | 16.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.12  | 67.59  | 16.39 |      | 150.0 |         |
|           |                                                                 | Z | 6.04  | 67.28  | 16.26 |      | 150.0 |         |
| 10561-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)              | X | 6.01  | 67.23  | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.03  | 67.54  | 16.41 |      | 150.0 |         |
|           |                                                                 | Z | 5.96  | 67.25  | 16.29 |      | 150.0 |         |
| 10562-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)              | X | 6.19  | 67.75  | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.18  | 68.00  | 16.64 |      | 150.0 |         |
|           |                                                                 | Z | 6.10  | 67.71  | 16.52 |      | 150.0 |         |
| 10563-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)              | X | 6.54  | 68.34  | 16.79 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.48  | 68.44  | 16.80 |      | 150.0 |         |
|           |                                                                 | Z | 6.47  | 68.36  | 16.79 |      | 150.0 |         |
| 10564-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)  | X | 4.95  | 66.78  | 16.29 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.98  | 67.12  | 16.46 |      | 150.0 |         |
|           |                                                                 | Z | 4.89  | 66.87  | 16.31 |      | 150.0 |         |
| 10565-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | X | 5.21  | 67.26  | 16.62 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.24  | 67.59  | 16.77 |      | 150.0 |         |
|           |                                                                 | Z | 5.13  | 67.34  | 16.63 |      | 150.0 |         |
| 10566-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | X | 5.04  | 67.13  | 16.44 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.08  | 67.47  | 16.61 |      | 150.0 |         |
|           |                                                                 | Z | 4.97  | 67.19  | 16.45 |      | 150.0 |         |
| 10567-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | X | 5.06  | 67.49  | 16.77 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.10  | 67.83  | 16.93 |      | 150.0 |         |
|           |                                                                 | Z | 4.99  | 67.57  | 16.79 |      | 150.0 |         |
| 10568-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | X | 4.95  | 66.87  | 16.20 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.99  | 67.23  | 16.38 |      | 150.0 |         |
|           |                                                                 | Z | 4.89  | 66.97  | 16.23 |      | 150.0 |         |
| 10569-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | X | 5.00  | 67.52  | 16.80 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.04  | 67.85  | 16.94 |      | 150.0 |         |
|           |                                                                 | Z | 4.94  | 67.63  | 16.84 |      | 150.0 |         |
| 10570-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | X | 5.05  | 67.37  | 16.74 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.09  | 67.70  | 16.90 |      | 150.0 |         |
|           |                                                                 | Z | 4.98  | 67.49  | 16.78 |      | 150.0 |         |
| 10571-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)       | X | 1.29  | 65.24  | 15.56 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.38  | 66.75  | 16.61 |      | 130.0 |         |
|           |                                                                 | Z | 1.28  | 65.57  | 15.79 |      | 130.0 |         |
| 10572-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)       | X | 1.31  | 65.82  | 15.90 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.41  | 67.45  | 17.00 |      | 130.0 |         |
|           |                                                                 | Z | 1.30  | 66.20  | 16.15 |      | 130.0 |         |
| 10573-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)     | X | 2.36  | 83.18  | 21.01 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 13.78 | 112.12 | 30.35 |      | 130.0 |         |
|           |                                                                 | Z | 3.43  | 89.56  | 23.26 |      | 130.0 |         |
| 10574-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)      | X | 1.49  | 71.50  | 18.49 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.79  | 75.21  | 20.51 |      | 130.0 |         |
|           |                                                                 | Z | 1.53  | 72.59  | 19.09 |      | 130.0 |         |

|           |                                                                 |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10575-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | X | 4.78 | 66.67 | 16.40 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.81 | 67.00 | 16.56 |      | 130.0 |         |
|           |                                                                 | Z | 4.71 | 66.77 | 16.42 |      | 130.0 |         |
| 10576-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | X | 4.80 | 66.82 | 16.46 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.83 | 67.14 | 16.61 |      | 130.0 |         |
|           |                                                                 | Z | 4.74 | 66.92 | 16.48 |      | 130.0 |         |
| 10577-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | X | 5.03 | 67.15 | 16.64 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 5.06 | 67.47 | 16.78 |      | 130.0 |         |
|           |                                                                 | Z | 4.95 | 67.23 | 16.66 |      | 130.0 |         |
| 10578-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | X | 4.92 | 67.31 | 16.73 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.96 | 67.63 | 16.88 |      | 130.0 |         |
|           |                                                                 | Z | 4.85 | 67.39 | 16.75 |      | 130.0 |         |
| 10579-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | X | 4.70 | 66.68 | 16.09 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.74 | 67.05 | 16.28 |      | 130.0 |         |
|           |                                                                 | Z | 4.63 | 66.73 | 16.09 |      | 130.0 |         |
| 10580-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | X | 4.75 | 66.66 | 16.09 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.78 | 67.02 | 16.28 |      | 130.0 |         |
|           |                                                                 | Z | 4.67 | 66.74 | 16.10 |      | 130.0 |         |
| 10581-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | X | 4.83 | 67.37 | 16.68 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.87 | 67.72 | 16.84 |      | 130.0 |         |
|           |                                                                 | Z | 4.75 | 67.45 | 16.70 |      | 130.0 |         |
| 10582-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | X | 4.66 | 66.44 | 15.90 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.70 | 66.81 | 16.09 |      | 130.0 |         |
|           |                                                                 | Z | 4.57 | 66.49 | 15.89 |      | 130.0 |         |
| 10583-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)       | X | 4.78 | 66.67 | 16.40 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.81 | 67.00 | 16.56 |      | 130.0 |         |
|           |                                                                 | Z | 4.71 | 66.77 | 16.42 |      | 130.0 |         |
| 10584-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)       | X | 4.80 | 66.82 | 16.46 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.83 | 67.14 | 16.61 |      | 130.0 |         |
|           |                                                                 | Z | 4.74 | 66.92 | 16.48 |      | 130.0 |         |
| 10585-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)      | X | 5.03 | 67.15 | 16.64 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 5.06 | 67.47 | 16.78 |      | 130.0 |         |
|           |                                                                 | Z | 4.95 | 67.23 | 16.66 |      | 130.0 |         |
| 10586-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)      | X | 4.92 | 67.31 | 16.73 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.96 | 67.63 | 16.88 |      | 130.0 |         |
|           |                                                                 | Z | 4.85 | 67.39 | 16.75 |      | 130.0 |         |
| 10587-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)      | X | 4.70 | 66.68 | 16.09 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.74 | 67.05 | 16.28 |      | 130.0 |         |
|           |                                                                 | Z | 4.63 | 66.73 | 16.09 |      | 130.0 |         |
| 10588-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)      | X | 4.75 | 66.66 | 16.09 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.78 | 67.02 | 16.28 |      | 130.0 |         |
|           |                                                                 | Z | 4.67 | 66.74 | 16.10 |      | 130.0 |         |
| 10589-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)      | X | 4.83 | 67.37 | 16.68 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.87 | 67.72 | 16.84 |      | 130.0 |         |
|           |                                                                 | Z | 4.75 | 67.45 | 16.70 |      | 130.0 |         |
| 10590-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)      | X | 4.66 | 66.44 | 15.90 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.70 | 66.81 | 16.09 |      | 130.0 |         |
|           |                                                                 | Z | 4.57 | 66.49 | 15.89 |      | 130.0 |         |

|           |                                                       |   |      |       |       |      |       |         |
|-----------|-------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10591-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) | X | 4.93 | 66.73 | 16.50 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.95 | 67.04 | 16.64 |      | 130.0 |         |
|           |                                                       | Z | 4.86 | 66.82 | 16.52 |      | 130.0 |         |
| 10592-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle) | X | 5.10 | 67.07 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.13 | 67.38 | 16.76 |      | 130.0 |         |
|           |                                                       | Z | 5.02 | 67.16 | 16.65 |      | 130.0 |         |
| 10593-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle) | X | 5.03 | 67.02 | 16.53 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.06 | 67.34 | 16.67 |      | 130.0 |         |
|           |                                                       | Z | 4.95 | 67.09 | 16.54 |      | 130.0 |         |
| 10594-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle) | X | 5.08 | 67.17 | 16.67 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.11 | 67.48 | 16.81 |      | 130.0 |         |
|           |                                                       | Z | 5.00 | 67.25 | 16.69 |      | 130.0 |         |
| 10595-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle) | X | 5.05 | 67.13 | 16.57 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.09 | 67.45 | 16.72 |      | 130.0 |         |
|           |                                                       | Z | 4.97 | 67.21 | 16.59 |      | 130.0 |         |
| 10596-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle) | X | 4.99 | 67.13 | 16.57 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.02 | 67.46 | 16.72 |      | 130.0 |         |
|           |                                                       | Z | 4.91 | 67.21 | 16.59 |      | 130.0 |         |
| 10597-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle) | X | 4.94 | 67.06 | 16.47 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.98 | 67.40 | 16.63 |      | 130.0 |         |
|           |                                                       | Z | 4.86 | 67.13 | 16.48 |      | 130.0 |         |
| 10598-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle) | X | 4.92 | 67.30 | 16.73 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.95 | 67.64 | 16.88 |      | 130.0 |         |
|           |                                                       | Z | 4.84 | 67.36 | 16.74 |      | 130.0 |         |
| 10599-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle) | X | 5.61 | 67.38 | 16.74 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.61 | 67.61 | 16.82 |      | 130.0 |         |
|           |                                                       | Z | 5.53 | 67.39 | 16.73 |      | 130.0 |         |
| 10600-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) | X | 5.82 | 68.04 | 17.04 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.79 | 68.15 | 17.06 |      | 130.0 |         |
|           |                                                       | Z | 5.72 | 67.96 | 16.99 |      | 130.0 |         |
| 10601-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle) | X | 5.66 | 67.64 | 16.85 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.66 | 67.83 | 16.91 |      | 130.0 |         |
|           |                                                       | Z | 5.58 | 67.62 | 16.83 |      | 130.0 |         |
| 10602-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) | X | 5.75 | 67.63 | 16.77 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.75 | 67.83 | 16.84 |      | 130.0 |         |
|           |                                                       | Z | 5.66 | 67.62 | 16.75 |      | 130.0 |         |
| 10603-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) | X | 5.83 | 67.92 | 17.04 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.84 | 68.17 | 17.13 |      | 130.0 |         |
|           |                                                       | Z | 5.75 | 67.92 | 17.03 |      | 130.0 |         |
| 10604-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle) | X | 5.61 | 67.34 | 16.74 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.61 | 67.57 | 16.82 |      | 130.0 |         |
|           |                                                       | Z | 5.53 | 67.35 | 16.73 |      | 130.0 |         |
| 10605-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) | X | 5.72 | 67.66 | 16.90 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.72 | 67.86 | 16.97 |      | 130.0 |         |
|           |                                                       | Z | 5.66 | 67.72 | 16.92 |      | 130.0 |         |
| 10606-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle) | X | 5.48 | 67.08 | 16.48 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.50 | 67.38 | 16.61 |      | 130.0 |         |
|           |                                                       | Z | 5.41 | 67.12 | 16.48 |      | 130.0 |         |

|           |                                                   |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10607-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | X | 4.75 | 65.99 | 16.09 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.78 | 66.32 | 16.24 |      | 130.0 |         |
|           |                                                   | Z | 4.69 | 66.10 | 16.12 |      | 130.0 |         |
| 10608-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) | X | 4.96 | 66.41 | 16.25 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.99 | 66.75 | 16.41 |      | 130.0 |         |
|           |                                                   | Z | 4.89 | 66.52 | 16.28 |      | 130.0 |         |
| 10609-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) | X | 4.85 | 66.28 | 16.10 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.88 | 66.64 | 16.28 |      | 130.0 |         |
|           |                                                   | Z | 4.78 | 66.38 | 16.13 |      | 130.0 |         |
| 10610-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | X | 4.90 | 66.44 | 16.26 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.94 | 66.79 | 16.43 |      | 130.0 |         |
|           |                                                   | Z | 4.83 | 66.53 | 16.29 |      | 130.0 |         |
| 10611-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) | X | 4.82 | 66.27 | 16.13 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.86 | 66.63 | 16.29 |      | 130.0 |         |
|           |                                                   | Z | 4.75 | 66.35 | 16.14 |      | 130.0 |         |
| 10612-AAB | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) | X | 4.84 | 66.42 | 16.16 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.88 | 66.79 | 16.34 |      | 130.0 |         |
|           |                                                   | Z | 4.76 | 66.51 | 16.19 |      | 130.0 |         |
| 10613-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) | X | 4.85 | 66.34 | 16.07 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.89 | 66.72 | 16.25 |      | 130.0 |         |
|           |                                                   | Z | 4.77 | 66.42 | 16.08 |      | 130.0 |         |
| 10614-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle) | X | 4.78 | 66.51 | 16.28 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.82 | 66.88 | 16.46 |      | 130.0 |         |
|           |                                                   | Z | 4.71 | 66.59 | 16.31 |      | 130.0 |         |
| 10615-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) | X | 4.82 | 66.09 | 15.91 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.86 | 66.46 | 16.09 |      | 130.0 |         |
|           |                                                   | Z | 4.75 | 66.18 | 15.93 |      | 130.0 |         |
| 10616-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) | X | 5.41 | 66.58 | 16.31 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.42 | 66.86 | 16.42 |      | 130.0 |         |
|           |                                                   | Z | 5.34 | 66.63 | 16.33 |      | 130.0 |         |
| 10617-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) | X | 5.46 | 66.67 | 16.33 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.48 | 66.96 | 16.44 |      | 130.0 |         |
|           |                                                   | Z | 5.41 | 66.77 | 16.37 |      | 130.0 |         |
| 10618-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) | X | 5.36 | 66.74 | 16.38 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.38 | 67.04 | 16.50 |      | 130.0 |         |
|           |                                                   | Z | 5.30 | 66.80 | 16.40 |      | 130.0 |         |
| 10619-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) | X | 5.38 | 66.57 | 16.23 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.40 | 66.88 | 16.36 |      | 130.0 |         |
|           |                                                   | Z | 5.32 | 66.65 | 16.26 |      | 130.0 |         |
| 10620-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) | X | 5.50 | 66.70 | 16.35 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.52 | 66.98 | 16.46 |      | 130.0 |         |
|           |                                                   | Z | 5.42 | 66.71 | 16.34 |      | 130.0 |         |
| 10621-AAB | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) | X | 5.47 | 66.73 | 16.48 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.49 | 67.03 | 16.59 |      | 130.0 |         |
|           |                                                   | Z | 5.40 | 66.78 | 16.49 |      | 130.0 |         |
| 10622-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) | X | 5.47 | 66.86 | 16.53 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.49 | 67.13 | 16.63 |      | 130.0 |         |
|           |                                                   | Z | 5.42 | 66.94 | 16.56 |      | 130.0 |         |

|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10623-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)  | X | 5.36 | 66.43 | 16.20 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.39 | 66.76 | 16.34 |      | 130.0 |         |
|           |                                                    | Z | 5.29 | 66.47 | 16.21 |      | 130.0 |         |
| 10624-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)  | X | 5.56 | 66.64 | 16.37 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.57 | 66.89 | 16.47 |      | 130.0 |         |
|           |                                                    | Z | 5.49 | 66.69 | 16.38 |      | 130.0 |         |
| 10625-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)  | X | 6.00 | 67.82 | 17.01 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.94 | 67.87 | 17.00 |      | 130.0 |         |
|           |                                                    | Z | 5.92 | 67.84 | 17.00 |      | 130.0 |         |
| 10626-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)  | X | 5.66 | 66.60 | 16.25 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.68 | 66.90 | 16.36 |      | 130.0 |         |
|           |                                                    | Z | 5.62 | 66.67 | 16.27 |      | 130.0 |         |
| 10627-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)  | X | 5.94 | 67.22 | 16.51 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.92 | 67.41 | 16.57 |      | 130.0 |         |
|           |                                                    | Z | 5.88 | 67.28 | 16.54 |      | 130.0 |         |
| 10628-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)  | X | 5.74 | 66.79 | 16.24 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.75 | 67.08 | 16.35 |      | 130.0 |         |
|           |                                                    | Z | 5.67 | 66.82 | 16.24 |      | 130.0 |         |
| 10629-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)  | X | 5.82 | 66.86 | 16.27 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.83 | 67.14 | 16.37 |      | 130.0 |         |
|           |                                                    | Z | 5.76 | 66.90 | 16.28 |      | 130.0 |         |
| 10630-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)  | X | 6.47 | 68.95 | 17.30 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.33 | 68.81 | 17.20 |      | 130.0 |         |
|           |                                                    | Z | 6.32 | 68.74 | 17.19 |      | 130.0 |         |
| 10631-AAB | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)  | X | 6.26 | 68.44 | 17.24 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.22 | 68.55 | 17.25 |      | 130.0 |         |
|           |                                                    | Z | 6.14 | 68.32 | 17.17 |      | 130.0 |         |
| 10632-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)  | X | 5.90 | 67.24 | 16.66 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.90 | 67.49 | 16.74 |      | 130.0 |         |
|           |                                                    | Z | 5.84 | 67.30 | 16.68 |      | 130.0 |         |
| 10633-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)  | X | 5.83 | 67.03 | 16.39 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.84 | 67.32 | 16.49 |      | 130.0 |         |
|           |                                                    | Z | 5.74 | 66.97 | 16.35 |      | 130.0 |         |
| 10634-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)  | X | 5.79 | 66.98 | 16.42 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.82 | 67.30 | 16.54 |      | 130.0 |         |
|           |                                                    | Z | 5.72 | 66.98 | 16.41 |      | 130.0 |         |
| 10635-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)  | X | 5.69 | 66.37 | 15.86 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.71 | 66.69 | 15.99 |      | 130.0 |         |
|           |                                                    | Z | 5.61 | 66.36 | 15.84 |      | 130.0 |         |
| 10636-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | X | 6.08 | 67.02 | 16.37 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.08 | 67.28 | 16.45 |      | 130.0 |         |
|           |                                                    | Z | 6.04 | 67.06 | 16.38 |      | 130.0 |         |
| 10637-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle) | X | 6.26 | 67.43 | 16.55 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.25 | 67.66 | 16.62 |      | 130.0 |         |
|           |                                                    | Z | 6.20 | 67.46 | 16.56 |      | 130.0 |         |
| 10638-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle) | X | 6.25 | 67.40 | 16.51 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.25 | 67.63 | 16.58 |      | 130.0 |         |
|           |                                                    | Z | 6.20 | 67.43 | 16.52 |      | 130.0 |         |

|           |                                                        |   |       |        |       |       |       |         |
|-----------|--------------------------------------------------------|---|-------|--------|-------|-------|-------|---------|
| 10639-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)     | X | 6.25  | 67.40  | 16.56 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.25  | 67.65  | 16.64 |       | 130.0 |         |
|           |                                                        | Z | 6.18  | 67.40  | 16.55 |       | 130.0 |         |
| 10640-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)     | X | 6.29  | 67.50  | 16.55 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.28  | 67.73  | 16.63 |       | 130.0 |         |
|           |                                                        | Z | 6.20  | 67.45  | 16.52 |       | 130.0 |         |
| 10641-AAC | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)     | X | 6.27  | 67.22  | 16.43 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.27  | 67.48  | 16.52 |       | 130.0 |         |
|           |                                                        | Z | 6.22  | 67.26  | 16.44 |       | 130.0 |         |
| 10642-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)     | X | 6.33  | 67.53  | 16.75 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.34  | 67.80  | 16.83 |       | 130.0 |         |
|           |                                                        | Z | 6.27  | 67.55  | 16.75 |       | 130.0 |         |
| 10643-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)     | X | 6.17  | 67.23  | 16.50 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.17  | 67.49  | 16.60 |       | 130.0 |         |
|           |                                                        | Z | 6.11  | 67.24  | 16.50 |       | 130.0 |         |
| 10644-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)     | X | 6.41  | 67.97  | 16.90 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.39  | 68.16  | 16.95 |       | 130.0 |         |
|           |                                                        | Z | 6.31  | 67.87  | 16.83 |       | 130.0 |         |
| 10645-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)     | X | 6.80  | 68.63  | 17.17 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.72  | 68.67  | 17.15 |       | 130.0 |         |
|           |                                                        | Z | 6.81  | 68.89  | 17.29 |       | 130.0 |         |
| 10646-AAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)  | X | 24.55 | 106.53 | 35.17 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 31.89 | 112.37 | 36.91 |       | 60.0  |         |
|           |                                                        | Z | 38.26 | 118.51 | 38.91 |       | 60.0  |         |
| 10647-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | X | 25.24 | 107.93 | 35.72 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 33.80 | 114.50 | 37.67 |       | 60.0  |         |
|           |                                                        | Z | 39.09 | 119.87 | 39.44 |       | 60.0  |         |
| 10648-AAA | CDMA2000 (1x Advanced)                                 | X | 0.69  | 62.98  | 10.52 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                        | Y | 0.80  | 65.16  | 12.22 |       | 150.0 |         |
|           |                                                        | Z | 0.66  | 63.02  | 10.29 |       | 150.0 |         |
| 10652-AAB | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)         | X | 4.37  | 68.24  | 17.12 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.55  | 69.07  | 17.52 |       | 80.0  |         |
|           |                                                        | Z | 4.32  | 68.59  | 17.21 |       | 80.0  |         |
| 10653-AAB | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)        | X | 4.86  | 67.62  | 17.24 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 5.00  | 68.27  | 17.53 |       | 80.0  |         |
|           |                                                        | Z | 4.79  | 67.81  | 17.30 |       | 80.0  |         |
| 10654-AAB | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)        | X | 4.80  | 67.31  | 17.24 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.92  | 67.94  | 17.52 |       | 80.0  |         |
|           |                                                        | Z | 4.74  | 67.48  | 17.30 |       | 80.0  |         |
| 10655-AAB | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)        | X | 4.86  | 67.35  | 17.29 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.98  | 67.98  | 17.57 |       | 80.0  |         |
|           |                                                        | Z | 4.79  | 67.48  | 17.34 |       | 80.0  |         |
| 10658-AAA | Pulse Waveform (200Hz, 10%)                            | X | 11.78 | 84.57  | 22.80 | 10.00 | 50.0  | ± 9.6 % |
|           |                                                        | Y | 11.52 | 83.95  | 22.54 |       | 50.0  |         |
|           |                                                        | Z | 14.66 | 88.44  | 23.55 |       | 50.0  |         |
| 10659-AAA | Pulse Waveform (200Hz, 20%)                            | X | 25.01 | 97.10  | 25.23 | 6.99  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 24.28 | 96.53  | 25.07 |       | 60.0  |         |
|           |                                                        | Z | 74.26 | 111.90 | 28.50 |       | 60.0  |         |

|           |                             |   |        |        |       |      |       |         |
|-----------|-----------------------------|---|--------|--------|-------|------|-------|---------|
| 10660-AAA | Pulse Waveform (200Hz, 40%) | X | 100.00 | 114.64 | 27.52 | 3.98 | 80.0  | ± 9.6 % |
|           |                             | Y | 100.00 | 115.23 | 27.86 |      | 80.0  |         |
|           |                             | Z | 100.00 | 113.16 | 26.57 |      | 80.0  |         |
| 10661-AAA | Pulse Waveform (200Hz, 60%) | X | 100.00 | 113.80 | 25.65 | 2.22 | 100.0 | ± 9.6 % |
|           |                             | Y | 100.00 | 116.06 | 26.74 |      | 100.0 |         |
|           |                             | Z | 100.00 | 112.55 | 24.88 |      | 100.0 |         |
| 10662-AAA | Pulse Waveform (200Hz, 80%) | X | 100.00 | 112.40 | 23.15 | 0.97 | 120.0 | ± 9.6 % |
|           |                             | Y | 100.00 | 120.75 | 26.76 |      | 120.0 |         |
|           |                             | Z | 100.00 | 111.39 | 22.56 |      | 120.0 |         |

<sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **PC Test**

Certificate No: **EX3-3837\_Mar18**

## CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3837**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v4, QA CAL-23.v5,  
QA CAL-25.v6  
Calibration procedure for dosimetric E-field probes**

SC ✓  
3/21/18

Calibration date: **March 16, 2018**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature ( $22 \pm 3$ )°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards          | ID               | Cal Date (Certificate No.)        | Scheduled Calibration  |
|----------------------------|------------------|-----------------------------------|------------------------|
| Power meter NRP            | SN: 104778       | 04-Apr-17 (No. 217-02521/02522)   | Apr-18                 |
| Power sensor NRP-Z91       | SN: 103244       | 04-Apr-17 (No. 217-02521)         | Apr-18                 |
| Power sensor NRP-Z91       | SN: 103245       | 04-Apr-17 (No. 217-02525)         | Apr-18                 |
| Reference 20 dB Attenuator | SN: S5277 (20x)  | 07-Apr-17 (No. 217-02528)         | Apr-18                 |
| Reference Probe ES3DV2     | SN: 3013         | 30-Dec-17 (No. ES3-3013_Dec17)    | Dec-18                 |
| DAE4                       | SN: 660          | 21-Dec-17 (No. DAE4-660_Dec17)    | Dec-18                 |
| Secondary Standards        | ID               | Check Date (in house)             | Scheduled Check        |
| Power meter E4419B         | SN: GB41293874   | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| Power sensor E4412A        | SN: MY41498087   | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| Power sensor E4412A        | SN: 000110210    | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| RF generator HP 8648C      | SN: US3642U01700 | 04-Aug-99 (in house check Jun-16) | In house check: Jun-18 |
| Network Analyzer HP 8753E  | SN: US37390585   | 18-Oct-01 (in house check Oct-17) | In house check: Oct-18 |

|                |                |                       |           |
|----------------|----------------|-----------------------|-----------|
| Calibrated by: | Name           | Function              | Signature |
|                | Jeton Kastrati | Laboratory Technician |           |
| Approved by:   | Name           | Function              | Signature |
|                | Katja Pokovic  | Technical Manager     |           |

Issued: March 17, 2018

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



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### Glossary:

|                          |                                                                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| TSL                      | tissue simulating liquid                                                                                                                                |
| NORM <sub>x,y,z</sub>    | sensitivity in free space                                                                                                                               |
| ConvF                    | sensitivity in TSL / NORM <sub>x,y,z</sub>                                                                                                              |
| DCP                      | diode compression point                                                                                                                                 |
| CF                       | crest factor (1/duty_cycle) of the RF signal                                                                                                            |
| A, B, C, D               | modulation dependent linearization parameters                                                                                                           |
| Polarization $\phi$      | $\phi$ rotation around probe axis                                                                                                                       |
| Polarization $\vartheta$ | $\vartheta$ rotation around an axis that is in the plane normal to probe axis (at measurement center),<br>i.e., $\vartheta = 0$ is normal to probe axis |
| Connector Angle          | information used in DASY system to align probe sensor X to the robot coordinate system                                                                  |

### Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

### Methods Applied and Interpretation of Parameters:

- NORM<sub>x,y,z</sub>**: Assessed for E-field polarization  $\vartheta = 0$  ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not affect the  $E^2$ -field uncertainty inside TSL (see below ConvF).
- NORM(f)<sub>x,y,z</sub>** = NORM<sub>x,y,z</sub> \* frequency\_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP<sub>x,y,z</sub>**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A<sub>x,y,z</sub>; B<sub>x,y,z</sub>; C<sub>x,y,z</sub>; D<sub>x,y,z</sub>; VR<sub>x,y,z</sub>**: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for  $f \leq 800$  MHz) and inside waveguide using analytical field distributions based on power measurements for  $f > 800$  MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM<sub>x,y,z</sub> \* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from  $\pm 50$  MHz to  $\pm 100$  MHz.
- Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle**: The angle is assessed using the information gained by determining the NORM<sub>x</sub> (no uncertainty required).

# Probe EX3DV4

## SN:3837

Manufactured: November 7, 2011  
Calibrated: March 16, 2018

Calibrated for DASY/EASY Systems  
(Note: non-compatible with DASY2 system!)

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3837

### Basic Calibration Parameters

|                                                           | Sensor X | Sensor Y | Sensor Z | Unc (k=2)     |
|-----------------------------------------------------------|----------|----------|----------|---------------|
| Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup> | 0.46     | 0.46     | 0.24     | $\pm 10.1 \%$ |
| DCP (mV) <sup>B</sup>                                     | 100.0    | 95.0     | 91.4     |               |

### Modulation Calibration Parameters

| UID | Communication System Name |   | A<br>dB | B<br>dB $\sqrt{\mu\text{V}}$ | C   | D<br>dB | VR<br>mV | Unc <sup>E</sup><br>(k=2) |
|-----|---------------------------|---|---------|------------------------------|-----|---------|----------|---------------------------|
| 0   | CW                        | X | 0.0     | 0.0                          | 1.0 | 0.00    | 133.6    | $\pm 2.5 \%$              |
|     |                           | Y | 0.0     | 0.0                          | 1.0 |         | 132.0    |                           |
|     |                           | Z | 0.0     | 0.0                          | 1.0 |         | 134.4    |                           |

Note: For details on UID parameters see Appendix.

### Sensor Model Parameters

|   | C1<br>fF | C2<br>fF | $\alpha$<br>$\text{V}^{-1}$ | T1<br>$\text{ms} \cdot \text{V}^{-2}$ | T2<br>$\text{ms} \cdot \text{V}^{-1}$ | T3<br>ms | T4<br>$\text{V}^{-2}$ | T5<br>$\text{V}^{-1}$ | T6    |
|---|----------|----------|-----------------------------|---------------------------------------|---------------------------------------|----------|-----------------------|-----------------------|-------|
| X | 45.57    | 340.2    | 35.78                       | 10.62                                 | 0.398                                 | 5.043    | 1.258                 | 0.358                 | 1.006 |
| Y | 52.82    | 412.7    | 38.56                       | 10.70                                 | 0.721                                 | 5.066    | 0.000                 | 0.679                 | 1.010 |
| Z | 55.06    | 428.3    | 38.40                       | 7.269                                 | 0.741                                 | 5.034    | 0.000                 | 0.592                 | 1.006 |

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor  $k=2$ , which for a normal distribution corresponds to a coverage probability of approximately 95%.

<sup>A</sup> The uncertainties of Norm X,Y,Z do not affect the  $E^2$ -field uncertainty inside TSL (see Pages 5 and 6).

<sup>B</sup> Numerical linearization parameter: uncertainty not required.

<sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3837

### Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) <sup>C</sup> | Relative Permittivity <sup>F</sup> | Conductivity (S/m) <sup>F</sup> | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup> (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 30                   | 55.0                               | 0.75                            | 14.25   | 14.25   | 14.25   | 0.00               | 1.00                    | ± 13.3 %  |
| 5250                 | 35.9                               | 4.71                            | 5.50    | 5.50    | 5.50    | 0.35               | 1.80                    | ± 13.1 %  |
| 5600                 | 35.5                               | 5.07                            | 4.88    | 4.88    | 4.88    | 0.40               | 1.80                    | ± 13.1 %  |
| 5750                 | 35.4                               | 5.22                            | 5.04    | 5.04    | 5.04    | 0.40               | 1.80                    | ± 13.1 %  |

<sup>C</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

<sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

<sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3837

### Calibration Parameter Determined in Body Tissue Simulating Media

| f (MHz) <sup>C</sup> | Relative Permittivity <sup>F</sup> | Conductivity (S/m) <sup>F</sup> | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup> (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 5250                 | 48.9                               | 5.36                            | 4.84    | 4.84    | 4.84    | 0.45               | 1.90                    | ± 13.1 %  |
| 5600                 | 48.5                               | 5.77                            | 4.13    | 4.13    | 4.13    | 0.50               | 1.90                    | ± 13.1 %  |
| 5750                 | 48.3                               | 5.94                            | 4.43    | 4.43    | 4.43    | 0.50               | 1.90                    | ± 13.1 %  |

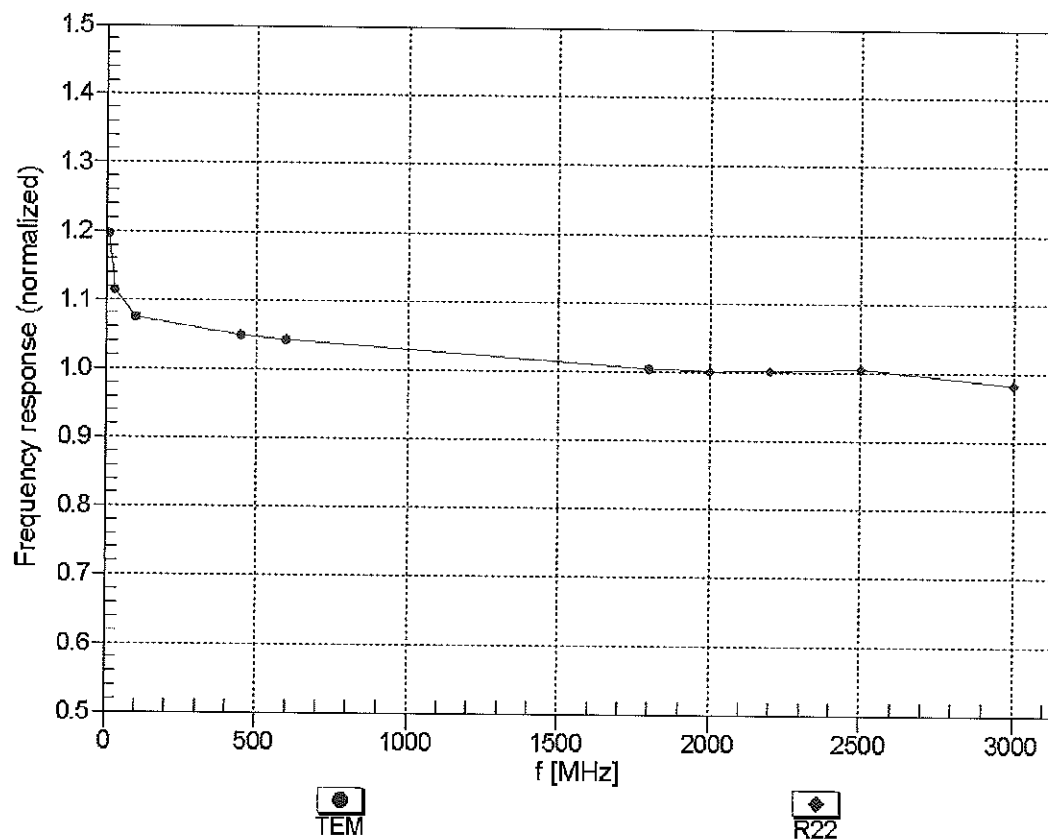
<sup>C</sup> Frequency validity above 300 MHz of  $\pm 100$  MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to  $\pm 50$  MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is  $\pm 10$ , 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to  $\pm 110$  MHz.

<sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to  $\pm 10\%$  if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to  $\pm 5\%$ . The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

<sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than  $\pm 1\%$  for frequencies below 3 GHz and below  $\pm 2\%$  for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

## Frequency Response of E-Field

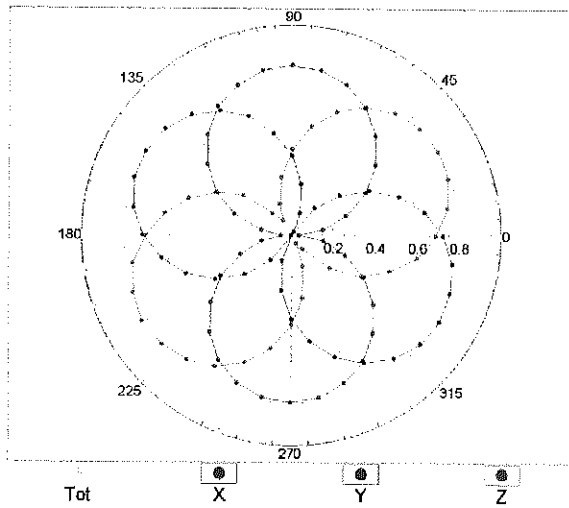
(TEM-Cell:ifi110 EXX, Waveguide: R22)



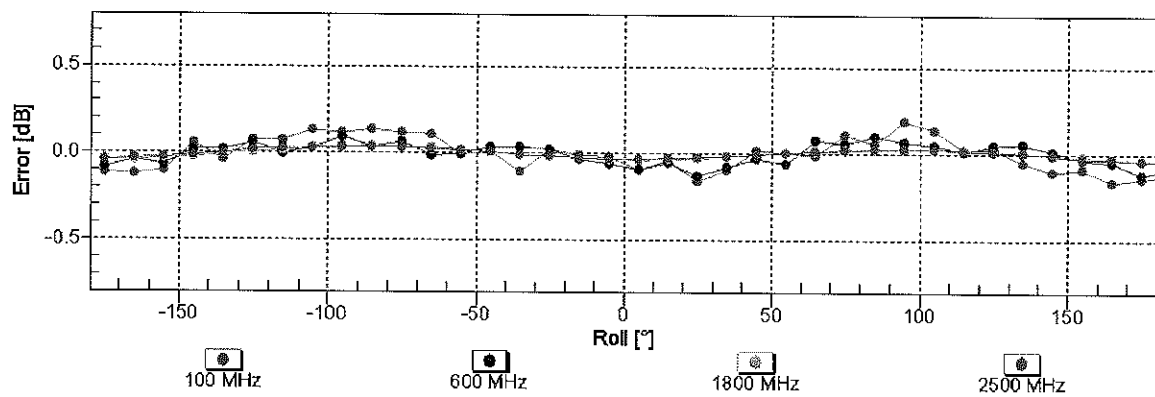
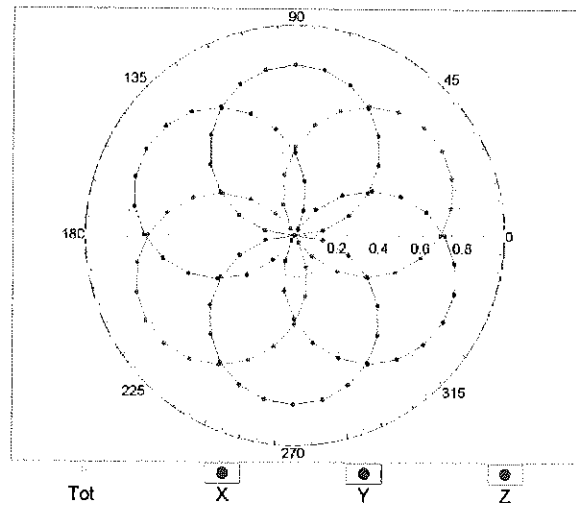
Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  ( $k=2$ )

## Receiving Pattern ( $\phi$ ), $\theta = 0^\circ$

f=600 MHz,TEM

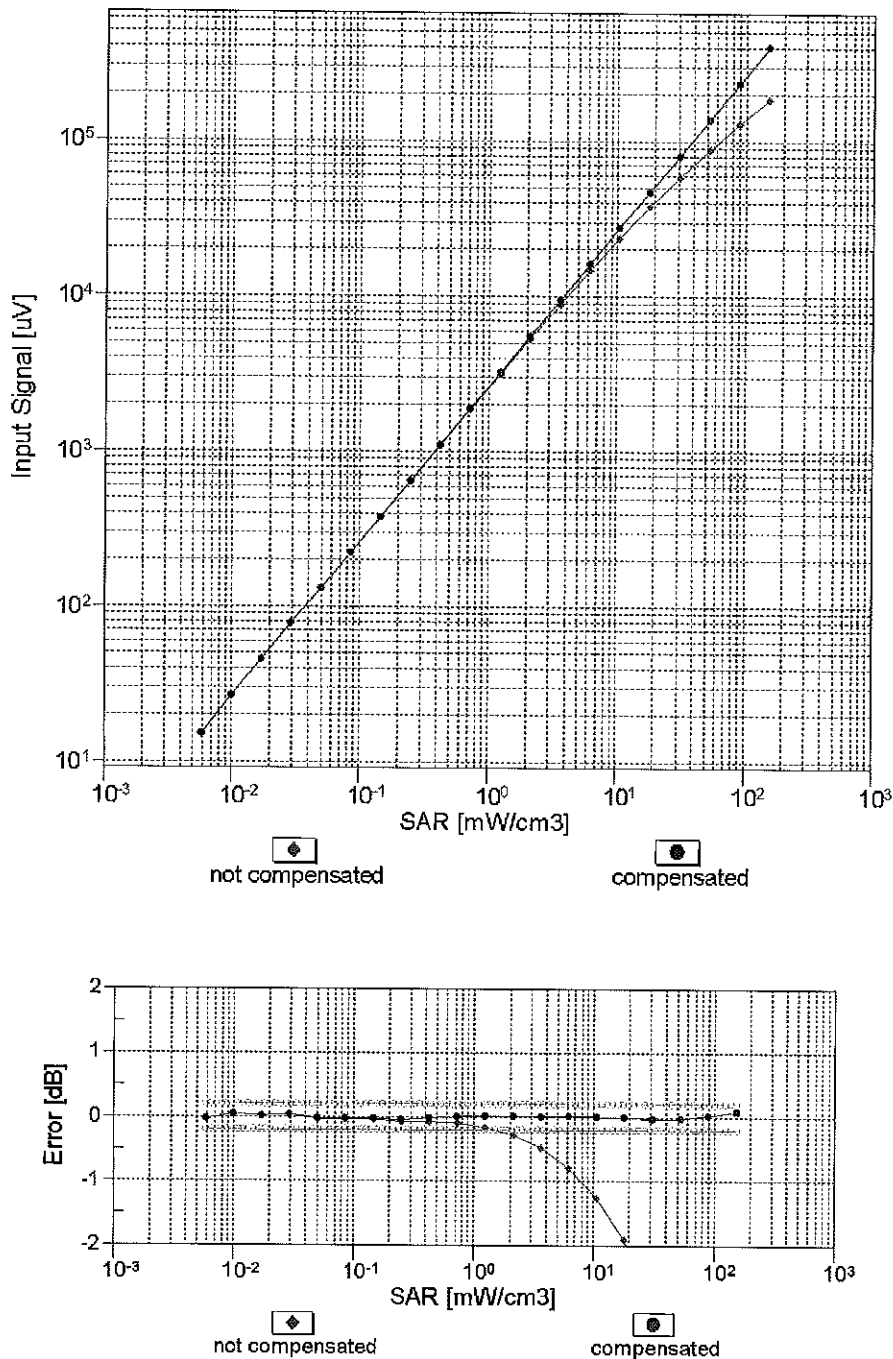


f=1800 MHz,R22



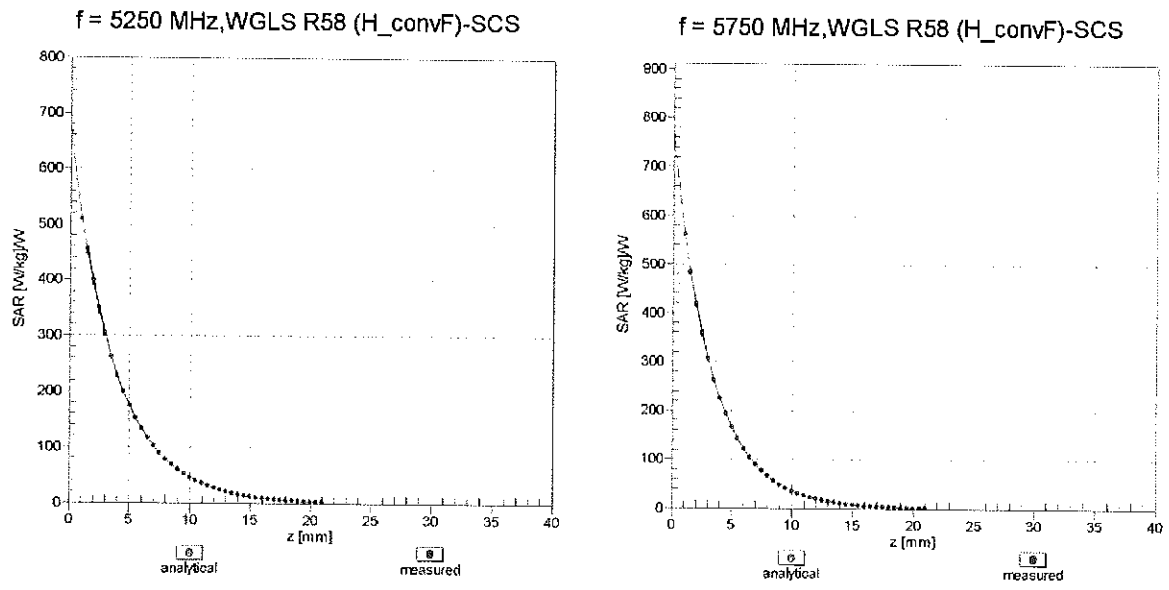
Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  ( $k=2$ )

Dynamic Range f(SAR<sub>head</sub>)  
(TEM cell , f<sub>eval</sub>= 1900 MHz)



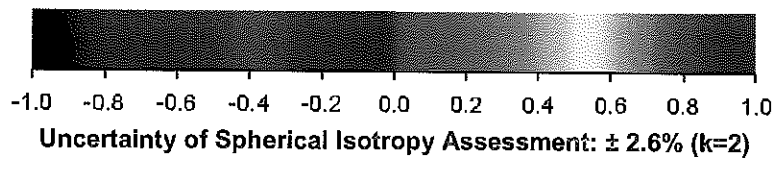
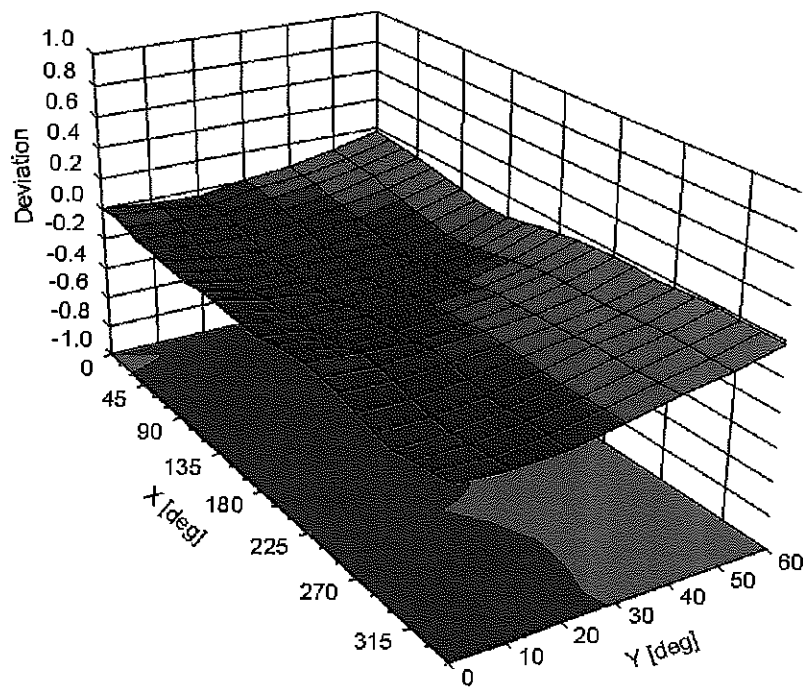
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

## Conversion Factor Assessment



## Deviation from Isotropy in Liquid

Error ( $\phi$ ,  $\theta$ ),  $f = 900 \text{ MHz}$



## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3837

### Other Probe Parameters

|                                               |            |
|-----------------------------------------------|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle (°)                           | 74.7       |
| Mechanical Surface Detection Mode             | enabled    |
| Optical Surface Detection Mode                | disabled   |
| Probe Overall Length                          | 337 mm     |
| Probe Body Diameter                           | 10 mm      |
| Tip Length                                    | 9 mm       |
| Tip Diameter                                  | 2.5 mm     |
| Probe Tip to Sensor X Calibration Point       | 1 mm       |
| Probe Tip to Sensor Y Calibration Point       | 1 mm       |
| Probe Tip to Sensor Z Calibration Point       | 1 mm       |
| Recommended Measurement Distance from Surface | 1.4 mm     |

**Appendix: Modulation Calibration Parameters**

| UID           | Communication System Name                     |   | A<br>dB | B<br>dB $\sqrt{\mu V}$ | C     | D<br>dB | VR<br>mV | Max<br>Unc <sup>E</sup><br>(k=2) |
|---------------|-----------------------------------------------|---|---------|------------------------|-------|---------|----------|----------------------------------|
| 0             | CW                                            | X | 0.00    | 0.00                   | 1.00  | 0.00    | 133.6    | $\pm 2.5 \%$                     |
|               |                                               | Y | 0.00    | 0.00                   | 1.00  |         | 132.0    |                                  |
|               |                                               | Z | 0.00    | 0.00                   | 1.00  |         | 134.4    |                                  |
| 10010-<br>CAA | SAR Validation (Square, 100ms, 10ms)          | X | 2.03    | 64.95                  | 9.51  | 10.00   | 20.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 1.97    | 63.98                  | 9.16  |         | 20.0     |                                  |
|               |                                               | Z | 1.85    | 63.08                  | 8.50  |         | 20.0     |                                  |
| 10011-<br>CAB | UMTS-FDD (WCDMA)                              | X | 1.28    | 72.25                  | 18.00 | 0.00    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 0.93    | 66.60                  | 14.42 |         | 150.0    |                                  |
|               |                                               | Z | 1.13    | 70.25                  | 16.68 |         | 150.0    |                                  |
| 10012-<br>CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)      | X | 1.18    | 64.97                  | 16.30 | 0.41    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 1.06    | 63.26                  | 14.90 |         | 150.0    |                                  |
|               |                                               | Z | 1.09    | 64.06                  | 15.74 |         | 150.0    |                                  |
| 10013-<br>CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) | X | 4.83    | 66.83                  | 17.25 | 1.46    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 4.84    | 66.39                  | 17.06 |         | 150.0    |                                  |
|               |                                               | Z | 4.85    | 66.45                  | 17.14 |         | 150.0    |                                  |
| 10021-<br>DAC | GSM-FDD (TDMA, GMSK)                          | X | 100.00  | 110.75                 | 25.49 | 9.39    | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 111.10                 | 25.91 |         | 50.0     |                                  |
|               |                                               | Z | 48.02   | 100.28                 | 22.67 |         | 50.0     |                                  |
| 10023-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0)                   | X | 100.00  | 110.33                 | 25.35 | 9.57    | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 110.88                 | 25.86 |         | 50.0     |                                  |
|               |                                               | Z | 19.64   | 89.95                  | 19.98 |         | 50.0     |                                  |
| 10024-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1)                 | X | 100.00  | 110.84                 | 24.47 | 6.56    | 60.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 108.80                 | 23.72 |         | 60.0     |                                  |
|               |                                               | Z | 100.00  | 106.11                 | 22.30 |         | 60.0     |                                  |
| 10025-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0)                   | X | 5.45    | 80.17                  | 31.75 | 12.57   | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 3.93    | 68.30                  | 24.95 |         | 50.0     |                                  |
|               |                                               | Z | 3.54    | 65.29                  | 22.96 |         | 50.0     |                                  |
| 10026-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1)                 | X | 9.53    | 95.10                  | 34.35 | 9.56    | 60.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 8.87    | 91.37                  | 32.43 |         | 60.0     |                                  |
|               |                                               | Z | 7.83    | 88.30                  | 31.08 |         | 60.0     |                                  |
| 10027-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2)               | X | 100.00  | 112.83                 | 24.58 | 4.80    | 80.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 107.21                 | 22.22 |         | 80.0     |                                  |
|               |                                               | Z | 100.00  | 104.35                 | 20.69 |         | 80.0     |                                  |
| 10028-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)             | X | 100.00  | 116.67                 | 25.52 | 3.55    | 100.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 105.18                 | 20.65 |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 102.00                 | 19.00 |         | 100.0    |                                  |
| 10029-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2)               | X | 5.56    | 82.09                  | 28.08 | 7.80    | 80.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 5.61    | 81.11                  | 27.31 |         | 80.0     |                                  |
|               |                                               | Z | 5.04    | 78.94                  | 26.34 |         | 80.0     |                                  |
| 10030-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1)           | X | 100.00  | 109.70                 | 23.52 | 5.30    | 70.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 106.53                 | 22.24 |         | 70.0     |                                  |
|               |                                               | Z | 100.00  | 103.90                 | 20.83 |         | 70.0     |                                  |
| 10031-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3)           | X | 100.00  | 117.25                 | 24.30 | 1.88    | 100.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 0.36    | 61.16                  | 5.47  |         | 100.0    |                                  |
|               |                                               | Z | 0.24    | 60.00                  | 4.36  |         | 100.0    |                                  |

|           |                                                     |   |        |        |       |       |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10032-CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5)                 | X | 100.00 | 142.46 | 32.89 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 0.19   | 60.00  | 3.50  |       | 100.0 |         |
|           |                                                     | Z | 47.65  | 61.02  | 1.54  |       | 100.0 |         |
| 10033-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)           | X | 75.36  | 125.33 | 33.61 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 17.26  | 101.58 | 27.60 |       | 70.0  |         |
|           |                                                     | Z | 12.23  | 96.92  | 26.29 |       | 70.0  |         |
| 10034-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)           | X | 9.06   | 94.35  | 24.05 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 2.87   | 77.35  | 18.29 |       | 100.0 |         |
|           |                                                     | Z | 3.15   | 79.89  | 19.62 |       | 100.0 |         |
| 10035-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)           | X | 4.40   | 85.21  | 20.99 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 1.80   | 71.96  | 15.84 |       | 100.0 |         |
|           |                                                     | Z | 2.08   | 75.09  | 17.57 |       | 100.0 |         |
| 10036-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1)               | X | 100.00 | 130.25 | 34.85 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 31.85  | 111.50 | 30.35 |       | 70.0  |         |
|           |                                                     | Z | 21.04  | 105.76 | 28.87 |       | 70.0  |         |
| 10037-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3)               | X | 7.39   | 91.62  | 23.22 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 2.68   | 76.50  | 17.93 |       | 100.0 |         |
|           |                                                     | Z | 2.89   | 78.82  | 19.19 |       | 100.0 |         |
| 10038-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5)               | X | 4.58   | 86.18  | 21.46 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 1.83   | 72.50  | 16.18 |       | 100.0 |         |
|           |                                                     | Z | 2.15   | 75.86  | 18.00 |       | 100.0 |         |
| 10039-CAB | CDMA2000 (1xRTT, RC1)                               | X | 4.21   | 84.26  | 20.24 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.58   | 69.80  | 14.38 |       | 150.0 |         |
|           |                                                     | Z | 2.61   | 77.09  | 17.86 |       | 150.0 |         |
| 10042-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | X | 100.00 | 107.13 | 23.10 | 7.78  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 106.13 | 22.81 |       | 50.0  |         |
|           |                                                     | Z | 5.57   | 76.12  | 14.29 |       | 50.0  |         |
| 10044-CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM)                    | X | 0.01   | 119.48 | 4.98  | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.20   | 127.74 | 0.55  |       | 150.0 |         |
|           |                                                     | Z | 0.17   | 132.08 | 12.71 |       | 150.0 |         |
| 10048-CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)           | X | 35.57  | 95.27  | 22.61 | 13.80 | 25.0  | ± 9.6 % |
|           |                                                     | Y | 13.44  | 83.93  | 20.02 |       | 25.0  |         |
|           |                                                     | Z | 6.71   | 73.54  | 16.05 |       | 25.0  |         |
| 10049-CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)         | X | 100.00 | 109.17 | 25.17 | 10.79 | 40.0  | ± 9.6 % |
|           |                                                     | Y | 18.00  | 89.53  | 20.64 |       | 40.0  |         |
|           |                                                     | Z | 6.88   | 76.63  | 16.02 |       | 40.0  |         |
| 10056-CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps)                      | X | 100.00 | 123.08 | 32.78 | 9.03  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 23.83  | 100.47 | 27.19 |       | 50.0  |         |
|           |                                                     | Z | 16.38  | 93.88  | 24.93 |       | 50.0  |         |
| 10058-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)                   | X | 4.26   | 76.58  | 24.95 | 6.55  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 4.34   | 76.15  | 24.46 |       | 100.0 |         |
|           |                                                     | Z | 3.96   | 74.54  | 23.77 |       | 100.0 |         |
| 10059-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)            | X | 1.22   | 66.27  | 17.02 | 0.61  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 1.10   | 64.38  | 15.54 |       | 110.0 |         |
|           |                                                     | Z | 1.11   | 65.15  | 16.35 |       | 110.0 |         |
| 10060-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)          | X | 100.00 | 145.56 | 38.66 | 1.30  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 79.31  | 131.95 | 33.33 |       | 110.0 |         |
|           |                                                     | Z | 100.00 | 140.55 | 36.12 |       | 110.0 |         |

|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10061-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)      | X | 4.10 | 89.25 | 26.11 | 2.04 | 110.0 | ± 9.6 % |
|           |                                                | Y | 2.95 | 82.10 | 22.86 |      | 110.0 |         |
|           |                                                | Z | 2.81 | 82.64 | 23.42 |      | 110.0 |         |
| 10062-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)       | X | 4.65 | 66.90 | 16.74 | 0.49 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.65 | 66.39 | 16.48 |      | 100.0 |         |
|           |                                                | Z | 4.69 | 66.55 | 16.65 |      | 100.0 |         |
| 10063-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)       | X | 4.66 | 66.98 | 16.83 | 0.72 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.66 | 66.49 | 16.58 |      | 100.0 |         |
|           |                                                | Z | 4.70 | 66.63 | 16.74 |      | 100.0 |         |
| 10064-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)      | X | 4.94 | 67.22 | 17.03 | 0.86 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.97 | 66.79 | 16.84 |      | 100.0 |         |
|           |                                                | Z | 5.01 | 66.93 | 16.98 |      | 100.0 |         |
| 10065-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)      | X | 4.80 | 67.09 | 17.12 | 1.21 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.83 | 66.69 | 16.93 |      | 100.0 |         |
|           |                                                | Z | 4.86 | 66.80 | 17.05 |      | 100.0 |         |
| 10066-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)      | X | 4.81 | 67.10 | 17.28 | 1.46 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.85 | 66.72 | 17.10 |      | 100.0 |         |
|           |                                                | Z | 4.87 | 66.80 | 17.20 |      | 100.0 |         |
| 10067-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)      | X | 5.09 | 67.23 | 17.69 | 2.04 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.14 | 66.84 | 17.53 |      | 100.0 |         |
|           |                                                | Z | 5.14 | 66.84 | 17.56 |      | 100.0 |         |
| 10068-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)      | X | 5.13 | 67.22 | 17.88 | 2.55 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.20 | 66.96 | 17.79 |      | 100.0 |         |
|           |                                                | Z | 5.20 | 66.96 | 17.81 |      | 100.0 |         |
| 10069-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)      | X | 5.20 | 67.22 | 18.06 | 2.67 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.28 | 66.93 | 17.97 |      | 100.0 |         |
|           |                                                | Z | 5.28 | 66.90 | 17.97 |      | 100.0 |         |
| 10071-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)  | X | 4.91 | 66.88 | 17.53 | 1.99 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.93 | 66.48 | 17.36 |      | 100.0 |         |
|           |                                                | Z | 4.94 | 66.50 | 17.42 |      | 100.0 |         |
| 10072-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | X | 4.88 | 67.19 | 17.74 | 2.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.92 | 66.83 | 17.59 |      | 100.0 |         |
|           |                                                | Z | 4.92 | 66.83 | 17.62 |      | 100.0 |         |
| 10073-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | X | 4.93 | 67.31 | 18.05 | 2.83 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.97 | 66.97 | 17.90 |      | 100.0 |         |
|           |                                                | Z | 4.96 | 66.91 | 17.89 |      | 100.0 |         |
| 10074-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | X | 4.91 | 67.18 | 18.17 | 3.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.94 | 66.83 | 18.04 |      | 100.0 |         |
|           |                                                | Z | 4.91 | 66.74 | 18.01 |      | 100.0 |         |
| 10075-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | X | 4.93 | 67.25 | 18.46 | 3.82 | 90.0  | ± 9.6 % |
|           |                                                | Y | 4.98 | 66.98 | 18.37 |      | 90.0  |         |
|           |                                                | Z | 4.95 | 66.88 | 18.32 |      | 90.0  |         |
| 10076-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | X | 4.94 | 67.02 | 18.57 | 4.15 | 90.0  | ± 9.6 % |
|           |                                                | Y | 4.98 | 66.70 | 18.45 |      | 90.0  |         |
|           |                                                | Z | 4.93 | 66.56 | 18.37 |      | 90.0  |         |
| 10077-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | X | 4.96 | 67.08 | 18.66 | 4.30 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.00 | 66.75 | 18.54 |      | 90.0  |         |
|           |                                                | Z | 4.95 | 66.60 | 18.45 |      | 90.0  |         |

|           |                                                     |   |        |        |       |      |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10081-CAB | CDMA2000 (1xRTT, RC3)                               | X | 1.22   | 72.11  | 15.38 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.71   | 64.23  | 11.07 |      | 150.0 |         |
|           |                                                     | Z | 0.94   | 68.15  | 13.57 |      | 150.0 |         |
| 10082-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | X | 0.46   | 58.22  | 3.03  | 4.77 | 80.0  | ± 9.6 % |
|           |                                                     | Y | 2.52   | 64.99  | 5.75  |      | 80.0  |         |
|           |                                                     | Z | 17.73  | 69.69  | 6.27  |      | 80.0  |         |
| 10090-DAC | GPRS-FDD (TDMA, GMSK, TN 0-4)                       | X | 100.00 | 110.88 | 24.51 | 6.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 108.92 | 23.80 |      | 60.0  |         |
|           |                                                     | Z | 100.00 | 106.22 | 22.37 |      | 60.0  |         |
| 10097-CAB | UMTS-FDD (HSDPA)                                    | X | 2.03   | 70.22  | 17.14 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.72   | 66.96  | 15.21 |      | 150.0 |         |
|           |                                                     | Z | 1.88   | 68.77  | 16.45 |      | 150.0 |         |
| 10098-CAB | UMTS-FDD (HSUPA, Subtest 2)                         | X | 1.99   | 70.21  | 17.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.68   | 66.91  | 15.17 |      | 150.0 |         |
|           |                                                     | Z | 1.84   | 68.75  | 16.42 |      | 150.0 |         |
| 10099-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4)                       | X | 9.62   | 95.30  | 34.41 | 9.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 8.94   | 91.50  | 32.47 |      | 60.0  |         |
|           |                                                     | Z | 7.88   | 88.41  | 31.12 |      | 60.0  |         |
| 10100-CAD | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 3.39   | 72.22  | 17.78 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.04   | 69.79  | 16.32 |      | 150.0 |         |
|           |                                                     | Z | 3.32   | 71.43  | 17.27 |      | 150.0 |         |
| 10101-CAD | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 3.31   | 68.32  | 16.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.18   | 67.17  | 15.74 |      | 150.0 |         |
|           |                                                     | Z | 3.30   | 67.92  | 16.28 |      | 150.0 |         |
| 10102-CAD | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 3.41   | 68.23  | 16.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.29   | 67.15  | 15.86 |      | 150.0 |         |
|           |                                                     | Z | 3.40   | 67.86  | 16.37 |      | 150.0 |         |
| 10103-CAD | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 6.20   | 76.40  | 20.96 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 5.84   | 74.64  | 20.13 |      | 65.0  |         |
|           |                                                     | Z | 5.59   | 74.11  | 19.90 |      | 65.0  |         |
| 10104-CAD | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 5.98   | 73.69  | 20.61 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 5.92   | 72.87  | 20.21 |      | 65.0  |         |
|           |                                                     | Z | 5.64   | 72.17  | 19.91 |      | 65.0  |         |
| 10105-CAD | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 5.57   | 72.09  | 20.19 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 5.84   | 72.51  | 20.38 |      | 65.0  |         |
|           |                                                     | Z | 5.27   | 70.68  | 19.54 |      | 65.0  |         |
| 10108-CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)            | X | 2.95   | 71.50  | 17.66 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.66   | 69.08  | 16.17 |      | 150.0 |         |
|           |                                                     | Z | 2.91   | 70.73  | 17.16 |      | 150.0 |         |
| 10109-CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)          | X | 2.97   | 68.35  | 16.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.84   | 67.00  | 15.64 |      | 150.0 |         |
|           |                                                     | Z | 2.97   | 67.87  | 16.26 |      | 150.0 |         |
| 10110-CAE | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)             | X | 2.41   | 70.87  | 17.41 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.15   | 68.17  | 15.76 |      | 150.0 |         |
|           |                                                     | Z | 2.37   | 69.92  | 16.86 |      | 150.0 |         |
| 10111-CAE | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)           | X | 2.76   | 69.84  | 17.09 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.54   | 67.71  | 15.87 |      | 150.0 |         |
|           |                                                     | Z | 2.72   | 68.98  | 16.76 |      | 150.0 |         |

|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10112-CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)     | X | 3.09 | 68.29 | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.97 | 66.99 | 15.71 |      | 150.0 |         |
|           |                                                | Z | 3.09 | 67.79 | 16.30 |      | 150.0 |         |
| 10113-CAE | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)      | X | 2.91 | 69.90 | 17.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.70 | 67.86 | 16.03 |      | 150.0 |         |
|           |                                                | Z | 2.87 | 69.05 | 16.86 |      | 150.0 |         |
| 10114-CAC | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)  | X | 5.12 | 67.46 | 16.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.11 | 66.96 | 16.40 |      | 150.0 |         |
|           |                                                | Z | 5.16 | 67.19 | 16.62 |      | 150.0 |         |
| 10115-CAC | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)  | X | 5.39 | 67.52 | 16.72 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.44 | 67.21 | 16.54 |      | 150.0 |         |
|           |                                                | Z | 5.52 | 67.50 | 16.78 |      | 150.0 |         |
| 10116-CAC | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | X | 5.21 | 67.64 | 16.70 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.22 | 67.22 | 16.46 |      | 150.0 |         |
|           |                                                | Z | 5.29 | 67.47 | 16.68 |      | 150.0 |         |
| 10117-CAC | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)       | X | 5.08 | 67.30 | 16.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.08 | 66.84 | 16.36 |      | 150.0 |         |
|           |                                                | Z | 5.14 | 67.11 | 16.59 |      | 150.0 |         |
| 10118-CAC | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)       | X | 5.47 | 67.73 | 16.83 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.54 | 67.49 | 16.69 |      | 150.0 |         |
|           |                                                | Z | 5.61 | 67.75 | 16.91 |      | 150.0 |         |
| 10119-CAC | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)      | X | 5.20 | 67.59 | 16.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.20 | 67.16 | 16.44 |      | 150.0 |         |
|           |                                                | Z | 5.26 | 67.41 | 16.66 |      | 150.0 |         |
| 10140-CAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)     | X | 3.44 | 68.23 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.33 | 67.14 | 15.77 |      | 150.0 |         |
|           |                                                | Z | 3.44 | 67.84 | 16.28 |      | 150.0 |         |
| 10141-CAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)     | X | 3.56 | 68.31 | 16.64 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.45 | 67.25 | 15.95 |      | 150.0 |         |
|           |                                                | Z | 3.57 | 67.91 | 16.44 |      | 150.0 |         |
| 10142-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)        | X | 2.25 | 71.50 | 17.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.91 | 68.03 | 15.35 |      | 150.0 |         |
|           |                                                | Z | 2.16 | 70.17 | 16.69 |      | 150.0 |         |
| 10143-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)      | X | 2.76 | 71.42 | 17.10 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.39 | 68.25 | 15.48 |      | 150.0 |         |
|           |                                                | Z | 2.64 | 70.08 | 16.68 |      | 150.0 |         |
| 10144-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)      | X | 2.35 | 68.05 | 14.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.18 | 66.04 | 13.91 |      | 150.0 |         |
|           |                                                | Z | 2.34 | 67.23 | 14.80 |      | 150.0 |         |
| 10145-CAE | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)      | X | 1.36 | 67.30 | 12.78 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.12 | 64.08 | 11.11 |      | 150.0 |         |
|           |                                                | Z | 1.36 | 66.73 | 12.92 |      | 150.0 |         |
| 10146-CAE | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)    | X | 2.05 | 66.97 | 11.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.09 | 66.87 | 12.31 |      | 150.0 |         |
|           |                                                | Z | 2.14 | 67.42 | 12.70 |      | 150.0 |         |
| 10147-CAE | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)    | X | 2.62 | 69.79 | 13.07 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.51 | 69.23 | 13.56 |      | 150.0 |         |
|           |                                                | Z | 2.66 | 70.25 | 14.16 |      | 150.0 |         |

|           |                                            |   |      |       |       |      |       |         |
|-----------|--------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10149-CAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 2.98 | 68.42 | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.85 | 67.06 | 15.68 |      | 150.0 |         |
|           |                                            | Z | 2.98 | 67.94 | 16.32 |      | 150.0 |         |
| 10150-CAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 3.10 | 68.35 | 16.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.97 | 67.05 | 15.75 |      | 150.0 |         |
|           |                                            | Z | 3.10 | 67.86 | 16.35 |      | 150.0 |         |
| 10151-CAD | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)    | X | 6.73 | 79.63 | 22.36 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 6.22 | 77.38 | 21.36 |      | 65.0  |         |
|           |                                            | Z | 5.82 | 76.46 | 21.00 |      | 65.0  |         |
| 10152-CAD | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 5.54 | 73.78 | 20.36 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 5.45 | 72.82 | 19.92 |      | 65.0  |         |
|           |                                            | Z | 5.18 | 72.08 | 19.62 |      | 65.0  |         |
| 10153-CAD | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 5.91 | 74.77 | 21.16 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 5.80 | 73.76 | 20.72 |      | 65.0  |         |
|           |                                            | Z | 5.51 | 72.99 | 20.42 |      | 65.0  |         |
| 10154-CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 2.48 | 71.44 | 17.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.20 | 68.63 | 16.05 |      | 150.0 |         |
|           |                                            | Z | 2.45 | 70.58 | 17.24 |      | 150.0 |         |
| 10155-CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 2.77 | 69.86 | 17.11 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.54 | 67.72 | 15.89 |      | 150.0 |         |
|           |                                            | Z | 2.72 | 68.98 | 16.76 |      | 150.0 |         |
| 10156-CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 2.16 | 72.20 | 17.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 1.76 | 68.05 | 15.09 |      | 150.0 |         |
|           |                                            | Z | 2.05 | 70.66 | 16.69 |      | 150.0 |         |
| 10157-CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 2.27 | 69.22 | 15.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.00 | 66.48 | 13.85 |      | 150.0 |         |
|           |                                            | Z | 2.21 | 68.13 | 15.00 |      | 150.0 |         |
| 10158-CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 2.92 | 69.98 | 17.23 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.71 | 67.92 | 16.08 |      | 150.0 |         |
|           |                                            | Z | 2.88 | 69.12 | 16.92 |      | 150.0 |         |
| 10159-CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 2.41 | 69.84 | 15.62 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.10 | 66.93 | 14.15 |      | 150.0 |         |
|           |                                            | Z | 2.35 | 68.72 | 15.36 |      | 150.0 |         |
| 10160-CAD | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)    | X | 2.89 | 70.19 | 17.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.70 | 68.35 | 16.09 |      | 150.0 |         |
|           |                                            | Z | 2.88 | 69.59 | 16.90 |      | 150.0 |         |
| 10161-CAD | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 3.00 | 68.36 | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.87 | 66.97 | 15.67 |      | 150.0 |         |
|           |                                            | Z | 2.99 | 67.81 | 16.30 |      | 150.0 |         |
| 10162-CAD | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 3.11 | 68.50 | 16.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.98 | 67.10 | 15.78 |      | 150.0 |         |
|           |                                            | Z | 3.10 | 67.90 | 16.38 |      | 150.0 |         |
| 10166-CAE | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 3.72 | 70.89 | 19.86 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.67 | 69.70 | 19.28 |      | 150.0 |         |
|           |                                            | Z | 3.62 | 69.60 | 19.26 |      | 150.0 |         |
| 10167-CAE | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 4.89 | 74.90 | 20.67 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.56 | 72.45 | 19.62 |      | 150.0 |         |
|           |                                            | Z | 4.46 | 72.29 | 19.59 |      | 150.0 |         |

|           |                                            |   |       |        |       |      |       |         |
|-----------|--------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10168-CAE | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 5.65  | 78.00  | 22.32 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.11  | 74.92  | 21.06 |      | 150.0 |         |
|           |                                            | Z | 5.03  | 74.89  | 21.10 |      | 150.0 |         |
| 10169-CAD | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 3.21  | 70.99  | 19.94 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.13  | 69.60  | 19.22 |      | 150.0 |         |
|           |                                            | Z | 3.04  | 69.55  | 19.25 |      | 150.0 |         |
| 10170-CAD | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 5.20  | 79.96  | 23.31 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.44  | 75.73  | 21.57 |      | 150.0 |         |
|           |                                            | Z | 4.36  | 76.12  | 21.82 |      | 150.0 |         |
| 10171-AAD | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 3.92  | 73.95  | 19.84 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.57  | 71.07  | 18.57 |      | 150.0 |         |
|           |                                            | Z | 3.42  | 70.98  | 18.56 |      | 150.0 |         |
| 10172-CAD | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 8.65  | 93.75  | 29.69 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 8.02  | 90.08  | 28.24 |      | 65.0  |         |
|           |                                            | Z | 6.86  | 87.22  | 26.94 |      | 65.0  |         |
| 10173-CAD | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 34.56 | 113.88 | 33.23 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 16.66 | 99.21  | 29.19 |      | 65.0  |         |
|           |                                            | Z | 12.68 | 94.37  | 27.34 |      | 65.0  |         |
| 10174-CAD | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 17.89 | 100.71 | 28.93 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 11.68 | 91.66  | 26.27 |      | 65.0  |         |
|           |                                            | Z | 7.88  | 85.16  | 23.78 |      | 65.0  |         |
| 10175-CAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)      | X | 3.16  | 70.61  | 19.66 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.09  | 69.23  | 18.94 |      | 150.0 |         |
|           |                                            | Z | 2.99  | 69.15  | 18.95 |      | 150.0 |         |
| 10176-CAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)    | X | 5.21  | 80.00  | 23.33 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.45  | 75.76  | 21.59 |      | 150.0 |         |
|           |                                            | Z | 4.36  | 76.14  | 21.83 |      | 150.0 |         |
| 10177-CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       | X | 3.19  | 70.79  | 19.76 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.12  | 69.41  | 19.05 |      | 150.0 |         |
|           |                                            | Z | 3.02  | 69.35  | 19.07 |      | 150.0 |         |
| 10178-CAE | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)     | X | 5.14  | 79.69  | 23.18 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.39  | 75.47  | 21.44 |      | 150.0 |         |
|           |                                            | Z | 4.29  | 75.79  | 21.66 |      | 150.0 |         |
| 10179-CAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)    | X | 4.49  | 76.75  | 21.41 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.95  | 73.19  | 19.90 |      | 150.0 |         |
|           |                                            | Z | 3.82  | 73.28  | 19.99 |      | 150.0 |         |
| 10180-CAE | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)     | X | 3.91  | 73.86  | 19.78 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.56  | 70.98  | 18.51 |      | 150.0 |         |
|           |                                            | Z | 3.41  | 70.87  | 18.49 |      | 150.0 |         |
| 10181-CAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 3.18  | 70.77  | 19.75 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.11  | 69.39  | 19.04 |      | 150.0 |         |
|           |                                            | Z | 3.02  | 69.33  | 19.06 |      | 150.0 |         |
| 10182-CAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)    | X | 5.13  | 79.66  | 23.17 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.38  | 75.45  | 21.42 |      | 150.0 |         |
|           |                                            | Z | 4.29  | 75.77  | 21.64 |      | 150.0 |         |
| 10183-AAC | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 3.90  | 73.83  | 19.77 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.55  | 70.96  | 18.50 |      | 150.0 |         |
|           |                                            | Z | 3.40  | 70.85  | 18.48 |      | 150.0 |         |

|           |                                               |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10184-CAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)          | X | 3.20 | 70.82 | 19.78 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.12 | 69.44 | 19.07 |      | 150.0 |         |
|           |                                               | Z | 3.03 | 69.38 | 19.09 |      | 150.0 |         |
| 10185-CAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)        | X | 5.16 | 79.75 | 23.21 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.40 | 75.52 | 21.47 |      | 150.0 |         |
|           |                                               | Z | 4.31 | 75.85 | 21.69 |      | 150.0 |         |
| 10186-AAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)        | X | 3.92 | 73.91 | 19.81 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.57 | 71.02 | 18.54 |      | 150.0 |         |
|           |                                               | Z | 3.42 | 70.92 | 18.52 |      | 150.0 |         |
| 10187-CAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)        | X | 3.21 | 70.89 | 19.85 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.13 | 69.49 | 19.13 |      | 150.0 |         |
|           |                                               | Z | 3.04 | 69.42 | 19.15 |      | 150.0 |         |
| 10188-CAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)      | X | 5.40 | 80.72 | 23.69 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.57 | 76.31 | 21.90 |      | 150.0 |         |
|           |                                               | Z | 4.50 | 76.77 | 22.18 |      | 150.0 |         |
| 10189-AAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)      | X | 4.04 | 74.49 | 20.14 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.65 | 71.49 | 18.83 |      | 150.0 |         |
|           |                                               | Z | 3.51 | 71.43 | 18.84 |      | 150.0 |         |
| 10193-CAC | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)  | X | 4.52 | 66.93 | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.49 | 66.31 | 16.09 |      | 150.0 |         |
|           |                                               | Z | 4.55 | 66.58 | 16.35 |      | 150.0 |         |
| 10194-CAC | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | X | 4.68 | 67.24 | 16.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.67 | 66.65 | 16.21 |      | 150.0 |         |
|           |                                               | Z | 4.74 | 66.93 | 16.47 |      | 150.0 |         |
| 10195-CAC | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | X | 4.72 | 67.26 | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.71 | 66.68 | 16.23 |      | 150.0 |         |
|           |                                               | Z | 4.78 | 66.95 | 16.48 |      | 150.0 |         |
| 10196-CAC | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)       | X | 4.52 | 66.99 | 16.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.50 | 66.39 | 16.11 |      | 150.0 |         |
|           |                                               | Z | 4.56 | 66.67 | 16.38 |      | 150.0 |         |
| 10197-CAC | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)      | X | 4.70 | 67.25 | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.68 | 66.67 | 16.22 |      | 150.0 |         |
|           |                                               | Z | 4.76 | 66.95 | 16.48 |      | 150.0 |         |
| 10198-CAC | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)      | X | 4.73 | 67.28 | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.72 | 66.70 | 16.24 |      | 150.0 |         |
|           |                                               | Z | 4.79 | 66.97 | 16.49 |      | 150.0 |         |
| 10219-CAC | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)       | X | 4.47 | 67.02 | 16.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.45 | 66.40 | 16.07 |      | 150.0 |         |
|           |                                               | Z | 4.52 | 66.69 | 16.34 |      | 150.0 |         |
| 10220-CAC | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)    | X | 4.69 | 67.22 | 16.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.68 | 66.65 | 16.22 |      | 150.0 |         |
|           |                                               | Z | 4.75 | 66.93 | 16.48 |      | 150.0 |         |
| 10221-CAC | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)    | X | 4.73 | 67.20 | 16.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.72 | 66.63 | 16.23 |      | 150.0 |         |
|           |                                               | Z | 4.79 | 66.90 | 16.48 |      | 150.0 |         |
| 10222-CAC | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)        | X | 5.06 | 67.31 | 16.62 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.05 | 66.85 | 16.35 |      | 150.0 |         |
|           |                                               | Z | 5.12 | 67.12 | 16.59 |      | 150.0 |         |

|           |                                           |   |       |        |       |      |       |         |
|-----------|-------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10223-CAC | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)  | X | 5.36  | 67.52  | 16.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.37  | 67.09  | 16.50 |      | 150.0 |         |
|           |                                           | Z | 5.44  | 67.35  | 16.73 |      | 150.0 |         |
| 10224-CAC | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) | X | 5.11  | 67.43  | 16.61 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.10  | 66.96  | 16.33 |      | 150.0 |         |
|           |                                           | Z | 5.16  | 67.22  | 16.57 |      | 150.0 |         |
| 10225-CAB | UMTS-FDD (HSPA+)                          | X | 2.84  | 66.92  | 15.85 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 2.74  | 65.72  | 15.18 |      | 150.0 |         |
|           |                                           | Z | 2.83  | 66.35  | 15.73 |      | 150.0 |         |
| 10226-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  | X | 40.01 | 116.73 | 34.09 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 18.15 | 100.91 | 29.81 |      | 65.0  |         |
|           |                                           | Z | 13.80 | 96.00  | 27.96 |      | 65.0  |         |
| 10227-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)  | X | 33.98 | 111.47 | 31.92 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 16.25 | 97.33  | 28.09 |      | 65.0  |         |
|           |                                           | Z | 12.25 | 92.38  | 26.18 |      | 65.0  |         |
| 10228-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)    | X | 12.76 | 101.92 | 32.39 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 11.08 | 97.03  | 30.67 |      | 65.0  |         |
|           |                                           | Z | 8.72  | 92.35  | 28.82 |      | 65.0  |         |
| 10229-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)    | X | 34.89 | 114.03 | 33.28 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 16.78 | 99.31  | 29.23 |      | 65.0  |         |
|           |                                           | Z | 12.79 | 94.48  | 27.39 |      | 65.0  |         |
| 10230-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)    | X | 29.80 | 109.06 | 31.18 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 15.07 | 95.92  | 27.58 |      | 65.0  |         |
|           |                                           | Z | 11.39 | 91.05  | 25.67 |      | 65.0  |         |
| 10231-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)      | X | 11.93 | 100.43 | 31.84 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 10.46 | 95.77  | 30.17 |      | 65.0  |         |
|           |                                           | Z | 8.25  | 91.19  | 28.34 |      | 65.0  |         |
| 10232-CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)    | X | 34.85 | 114.02 | 33.28 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 16.75 | 99.30  | 29.23 |      | 65.0  |         |
|           |                                           | Z | 12.76 | 94.46  | 27.38 |      | 65.0  |         |
| 10233-CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)    | X | 29.71 | 109.03 | 31.18 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 15.04 | 95.90  | 27.57 |      | 65.0  |         |
|           |                                           | Z | 11.37 | 91.03  | 25.66 |      | 65.0  |         |
| 10234-CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)      | X | 11.28 | 99.11  | 31.30 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 9.96  | 94.62  | 29.67 |      | 65.0  |         |
|           |                                           | Z | 7.88  | 90.12  | 27.85 |      | 65.0  |         |
| 10235-CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)   | X | 35.01 | 114.12 | 33.31 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 16.79 | 99.35  | 29.25 |      | 65.0  |         |
|           |                                           | Z | 12.78 | 94.51  | 27.39 |      | 65.0  |         |
| 10236-CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   | X | 30.34 | 109.34 | 31.25 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 15.23 | 96.08  | 27.62 |      | 65.0  |         |
|           |                                           | Z | 11.50 | 91.19  | 25.70 |      | 65.0  |         |
| 10237-CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)     | X | 11.97 | 100.55 | 31.88 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 10.49 | 95.87  | 30.21 |      | 65.0  |         |
|           |                                           | Z | 8.27  | 91.27  | 28.37 |      | 65.0  |         |
| 10238-CAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   | X | 34.79 | 114.01 | 33.27 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 16.72 | 99.28  | 29.22 |      | 65.0  |         |
|           |                                           | Z | 12.73 | 94.44  | 27.37 |      | 65.0  |         |

|           |                                            |   |       |        |       |      |      |         |
|-----------|--------------------------------------------|---|-------|--------|-------|------|------|---------|
| 10239-CAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 29.60 | 108.99 | 31.17 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 15.00 | 95.87  | 27.57 |      | 65.0 |         |
|           |                                            | Z | 11.33 | 91.00  | 25.65 |      | 65.0 |         |
| 10240-CAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 11.93 | 100.49 | 31.86 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 10.45 | 95.81  | 30.19 |      | 65.0 |         |
|           |                                            | Z | 8.24  | 91.21  | 28.35 |      | 65.0 |         |
| 10241-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 8.35  | 82.82  | 26.15 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.85  | 80.00  | 25.06 |      | 65.0 |         |
|           |                                            | Z | 7.12  | 78.08  | 24.14 |      | 65.0 |         |
| 10242-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 7.34  | 80.10  | 24.97 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.01  | 77.55  | 23.95 |      | 65.0 |         |
|           |                                            | Z | 6.48  | 76.07  | 23.18 |      | 65.0 |         |
| 10243-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 5.72  | 75.88  | 24.13 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.69  | 74.41  | 23.47 |      | 65.0 |         |
|           |                                            | Z | 5.34  | 73.16  | 22.77 |      | 65.0 |         |
| 10244-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   | X | 5.95  | 76.49  | 18.56 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.01  | 76.53  | 19.26 |      | 65.0 |         |
|           |                                            | Z | 5.17  | 74.41  | 18.34 |      | 65.0 |         |
| 10245-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   | X | 5.70  | 75.57  | 18.13 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.87  | 75.85  | 18.93 |      | 65.0 |         |
|           |                                            | Z | 5.09  | 73.88  | 18.06 |      | 65.0 |         |
| 10246-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)     | X | 6.32  | 81.66  | 21.02 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.36  | 78.51  | 20.04 |      | 65.0 |         |
|           |                                            | Z | 4.95  | 77.75  | 19.89 |      | 65.0 |         |
| 10247-CAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 4.91  | 74.53  | 18.92 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.72  | 73.31  | 18.63 |      | 65.0 |         |
|           |                                            | Z | 4.45  | 72.67  | 18.48 |      | 65.0 |         |
| 10248-CAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 4.84  | 73.73  | 18.55 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.73  | 72.75  | 18.36 |      | 65.0 |         |
|           |                                            | Z | 4.48  | 72.15  | 18.22 |      | 65.0 |         |
| 10249-CAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 7.86  | 85.71  | 23.56 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.42  | 81.53  | 22.10 |      | 65.0 |         |
|           |                                            | Z | 5.85  | 80.41  | 21.79 |      | 65.0 |         |
| 10250-CAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 5.72  | 76.77  | 21.62 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.50  | 75.36  | 21.09 |      | 65.0 |         |
|           |                                            | Z | 5.18  | 74.52  | 20.81 |      | 65.0 |         |
| 10251-CAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 5.38  | 74.33  | 20.19 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.26  | 73.19  | 19.77 |      | 65.0 |         |
|           |                                            | Z | 4.98  | 72.41  | 19.49 |      | 65.0 |         |
| 10252-CAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 7.31  | 83.67  | 23.90 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.42  | 80.44  | 22.59 |      | 65.0 |         |
|           |                                            | Z | 5.91  | 79.28  | 22.20 |      | 65.0 |         |
| 10253-CAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 5.42  | 73.21  | 20.08 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.32  | 72.22  | 19.66 |      | 65.0 |         |
|           |                                            | Z | 5.05  | 71.46  | 19.36 |      | 65.0 |         |
| 10254-CAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 5.76  | 74.13  | 20.80 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.65  | 73.11  | 20.38 |      | 65.0 |         |
|           |                                            | Z | 5.37  | 72.34  | 20.09 |      | 65.0 |         |

|           |                                             |   |      |       |       |      |      |         |
|-----------|---------------------------------------------|---|------|-------|-------|------|------|---------|
| 10255-CAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)     | X | 6.31 | 78.67 | 22.21 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.88 | 76.59 | 21.28 |      | 65.0 |         |
|           |                                             | Z | 5.50 | 75.63 | 20.92 |      | 65.0 |         |
| 10256-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | X | 4.17 | 70.99 | 15.08 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.68 | 72.52 | 16.53 |      | 65.0 |         |
|           |                                             | Z | 4.05 | 70.72 | 15.69 |      | 65.0 |         |
| 10257-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 3.99 | 70.02 | 14.54 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.53 | 71.65 | 16.05 |      | 65.0 |         |
|           |                                             | Z | 3.98 | 70.06 | 15.30 |      | 65.0 |         |
| 10258-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   | X | 4.17 | 74.74 | 17.34 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 3.99 | 73.66 | 17.24 |      | 65.0 |         |
|           |                                             | Z | 3.75 | 73.28 | 17.24 |      | 65.0 |         |
| 10259-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   | X | 5.25 | 75.45 | 19.93 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.04 | 74.09 | 19.53 |      | 65.0 |         |
|           |                                             | Z | 4.75 | 73.36 | 19.32 |      | 65.0 |         |
| 10260-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   | X | 5.25 | 75.04 | 19.76 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.07 | 73.83 | 19.42 |      | 65.0 |         |
|           |                                             | Z | 4.79 | 73.13 | 19.23 |      | 65.0 |         |
| 10261-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)     | X | 7.02 | 83.49 | 23.23 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.03 | 80.05 | 21.95 |      | 65.0 |         |
|           |                                             | Z | 5.52 | 78.93 | 21.61 |      | 65.0 |         |
| 10262-CAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   | X | 5.71 | 76.71 | 21.58 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.49 | 75.31 | 21.04 |      | 65.0 |         |
|           |                                             | Z | 5.17 | 74.48 | 20.77 |      | 65.0 |         |
| 10263-CAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   | X | 5.37 | 74.30 | 20.18 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.25 | 73.17 | 19.76 |      | 65.0 |         |
|           |                                             | Z | 4.97 | 72.39 | 19.48 |      | 65.0 |         |
| 10264-CAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)     | X | 7.22 | 83.42 | 23.78 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.36 | 80.23 | 22.49 |      | 65.0 |         |
|           |                                             | Z | 5.85 | 79.08 | 22.10 |      | 65.0 |         |
| 10265-CAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)  | X | 5.54 | 73.78 | 20.36 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.45 | 72.82 | 19.93 |      | 65.0 |         |
|           |                                             | Z | 5.18 | 72.08 | 19.62 |      | 65.0 |         |
| 10266-CAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)  | X | 5.91 | 74.76 | 21.15 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.80 | 73.74 | 20.71 |      | 65.0 |         |
|           |                                             | Z | 5.51 | 72.97 | 20.41 |      | 65.0 |         |
| 10267-CAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)    | X | 6.72 | 79.57 | 22.34 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.21 | 77.33 | 21.33 |      | 65.0 |         |
|           |                                             | Z | 5.81 | 76.41 | 20.98 |      | 65.0 |         |
| 10268-CAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)  | X | 6.12 | 73.48 | 20.62 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.06 | 72.68 | 20.24 |      | 65.0 |         |
|           |                                             | Z | 5.79 | 71.98 | 19.95 |      | 65.0 |         |
| 10269-CAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)  | X | 6.09 | 73.02 | 20.46 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.03 | 72.24 | 20.11 |      | 65.0 |         |
|           |                                             | Z | 5.76 | 71.54 | 19.81 |      | 65.0 |         |
| 10270-CAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)    | X | 6.34 | 76.06 | 21.04 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.08 | 74.61 | 20.35 |      | 65.0 |         |
|           |                                             | Z | 5.76 | 73.86 | 20.04 |      | 65.0 |         |

|           |                                                                    |   |        |        |       |      |       |         |
|-----------|--------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10274-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)                          | X | 2.66   | 67.57  | 15.91 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.50   | 65.96  | 14.99 |      | 150.0 |         |
|           |                                                                    | Z | 2.60   | 66.71  | 15.61 |      | 150.0 |         |
| 10275-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)                           | X | 1.84   | 70.99  | 17.29 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.51   | 67.19  | 14.97 |      | 150.0 |         |
|           |                                                                    | Z | 1.71   | 69.51  | 16.45 |      | 150.0 |         |
| 10277-CAA | PHS (QPSK)                                                         | X | 1.87   | 60.83  | 6.38  | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 2.14   | 61.49  | 7.23  |      | 50.0  |         |
|           |                                                                    | Z | 2.09   | 61.24  | 7.00  |      | 50.0  |         |
| 10278-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.5)                                 | X | 4.51   | 72.29  | 15.08 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 4.92   | 73.27  | 16.01 |      | 50.0  |         |
|           |                                                                    | Z | 4.51   | 71.94  | 15.29 |      | 50.0  |         |
| 10279-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.38)                                | X | 4.67   | 72.70  | 15.31 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 5.09   | 73.65  | 16.22 |      | 50.0  |         |
|           |                                                                    | Z | 4.68   | 72.33  | 15.51 |      | 50.0  |         |
| 10290-AAB | CDMA2000, RC1, SO55, Full Rate                                     | X | 2.16   | 74.98  | 16.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.28   | 66.95  | 12.79 |      | 150.0 |         |
|           |                                                                    | Z | 1.74   | 71.36  | 15.26 |      | 150.0 |         |
| 10291-AAB | CDMA2000, RC3, SO55, Full Rate                                     | X | 1.17   | 71.53  | 15.12 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.69   | 64.03  | 10.95 |      | 150.0 |         |
|           |                                                                    | Z | 0.91   | 67.77  | 13.37 |      | 150.0 |         |
| 10292-AAB | CDMA2000, RC3, SO32, Full Rate                                     | X | 4.42   | 90.78  | 22.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.85   | 67.35  | 12.97 |      | 150.0 |         |
|           |                                                                    | Z | 1.67   | 76.97  | 17.67 |      | 150.0 |         |
| 10293-AAB | CDMA2000, RC3, SO3, Full Rate                                      | X | 100.00 | 136.59 | 34.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.33   | 73.34  | 16.12 |      | 150.0 |         |
|           |                                                                    | Z | 8.78   | 100.96 | 25.89 |      | 150.0 |         |
| 10295-AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr.                              | X | 11.43  | 89.42  | 25.13 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 9.12   | 84.99  | 23.86 |      | 50.0  |         |
|           |                                                                    | Z | 8.14   | 82.83  | 22.95 |      | 50.0  |         |
| 10297-AAC | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)                            | X | 2.97   | 71.63  | 17.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.68   | 69.19  | 16.24 |      | 150.0 |         |
|           |                                                                    | Z | 2.93   | 70.87  | 17.24 |      | 150.0 |         |
| 10298-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)                             | X | 1.89   | 71.32  | 15.81 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.46   | 66.65  | 13.41 |      | 150.0 |         |
|           |                                                                    | Z | 1.78   | 69.74  | 15.31 |      | 150.0 |         |
| 10299-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)                           | X | 3.28   | 72.61  | 15.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.80   | 70.26  | 14.85 |      | 150.0 |         |
|           |                                                                    | Z | 2.86   | 70.82  | 15.21 |      | 150.0 |         |
| 10300-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)                           | X | 2.02   | 65.69  | 11.41 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.07   | 65.40  | 11.81 |      | 150.0 |         |
|           |                                                                    | Z | 2.07   | 65.58  | 12.00 |      | 150.0 |         |
| 10301-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)                 | X | 4.72   | 65.85  | 17.74 | 4.17 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 4.78   | 65.42  | 17.53 |      | 50.0  |         |
|           |                                                                    | Z | 4.74   | 65.16  | 17.51 |      | 50.0  |         |
| 10302-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols) | X | 5.13   | 66.14  | 18.27 | 4.96 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 5.22   | 65.77  | 18.07 |      | 50.0  |         |
|           |                                                                    | Z | 5.18   | 65.64  | 18.13 |      | 50.0  |         |

|           |                                                                     |   |      |       |       |       |       |         |
|-----------|---------------------------------------------------------------------|---|------|-------|-------|-------|-------|---------|
| 10303-AAA | IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)                 | X | 4.87 | 65.75 | 18.09 | 4.96  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 4.97 | 65.43 | 17.92 |       | 50.0  |         |
|           |                                                                     | Z | 4.93 | 65.28 | 17.98 |       | 50.0  |         |
| 10304-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)                 | X | 4.70 | 65.69 | 17.62 | 4.17  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 4.76 | 65.25 | 17.39 |       | 50.0  |         |
|           |                                                                     | Z | 4.74 | 65.17 | 17.49 |       | 50.0  |         |
| 10305-AAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)    | X | 4.27 | 67.35 | 19.54 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.46 | 67.57 | 19.71 |       | 35.0  |         |
|           |                                                                     | Z | 4.33 | 66.90 | 19.56 |       | 35.0  |         |
| 10306-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)    | X | 4.60 | 66.41 | 19.14 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.75 | 66.45 | 19.22 |       | 35.0  |         |
|           |                                                                     | Z | 4.67 | 65.98 | 19.11 |       | 35.0  |         |
| 10307-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)     | X | 4.49 | 66.55 | 19.10 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.66 | 66.69 | 19.22 |       | 35.0  |         |
|           |                                                                     | Z | 4.58 | 66.22 | 19.12 |       | 35.0  |         |
| 10308-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)                | X | 4.47 | 66.75 | 19.25 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.63 | 66.87 | 19.34 |       | 35.0  |         |
|           |                                                                     | Z | 4.54 | 66.36 | 19.23 |       | 35.0  |         |
| 10309-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols) | X | 4.65 | 66.61 | 19.28 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.82 | 66.71 | 19.38 |       | 35.0  |         |
|           |                                                                     | Z | 4.74 | 66.25 | 19.28 |       | 35.0  |         |
| 10310-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)  | X | 4.54 | 66.47 | 19.12 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.70 | 66.52 | 19.20 |       | 35.0  |         |
|           |                                                                     | Z | 4.62 | 66.04 | 19.09 |       | 35.0  |         |
| 10311-AAC | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                            | X | 3.35 | 70.71 | 17.27 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 3.03 | 68.44 | 15.91 |       | 150.0 |         |
|           |                                                                     | Z | 3.29 | 69.99 | 16.82 |       | 150.0 |         |
| 10313-AAA | iDEN 1:3                                                            | X | 4.14 | 76.66 | 17.56 | 6.99  | 70.0  | ± 9.6 % |
|           |                                                                     | Y | 2.85 | 70.75 | 14.87 |       | 70.0  |         |
|           |                                                                     | Z | 2.37 | 69.11 | 14.12 |       | 70.0  |         |
| 10314-AAA | iDEN 1:6                                                            | X | 8.58 | 90.79 | 25.43 | 10.00 | 30.0  | ± 9.6 % |
|           |                                                                     | Y | 4.78 | 79.72 | 21.17 |       | 30.0  |         |
|           |                                                                     | Z | 4.55 | 79.07 | 20.77 |       | 30.0  |         |
| 10315-AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)           | X | 1.10 | 65.06 | 16.35 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.98 | 63.13 | 14.77 |       | 150.0 |         |
|           |                                                                     | Z | 1.01 | 64.16 | 15.80 |       | 150.0 |         |
| 10316-AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)       | X | 4.56 | 66.93 | 16.52 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.55 | 66.38 | 16.23 |       | 150.0 |         |
|           |                                                                     | Z | 4.60 | 66.58 | 16.44 |       | 150.0 |         |
| 10317-AAC | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)             | X | 4.56 | 66.93 | 16.52 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.55 | 66.38 | 16.23 |       | 150.0 |         |
|           |                                                                     | Z | 4.60 | 66.58 | 16.44 |       | 150.0 |         |
| 10400-AAD | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)                 | X | 4.67 | 67.29 | 16.53 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.67 | 66.71 | 16.20 |       | 150.0 |         |
|           |                                                                     | Z | 4.74 | 66.99 | 16.46 |       | 150.0 |         |
| 10401-AAD | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)                 | X | 5.37 | 67.39 | 16.65 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 5.39 | 66.99 | 16.43 |       | 150.0 |         |
|           |                                                                     | Z | 5.43 | 67.15 | 16.60 |       | 150.0 |         |

|           |                                                                                 |   |        |        |       |      |       |         |
|-----------|---------------------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10402-AAD | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)                             | X | 5.62   | 67.65  | 16.64 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.63   | 67.27  | 16.42 |      | 150.0 |         |
|           |                                                                                 | Z | 5.70   | 67.53  | 16.64 |      | 150.0 |         |
| 10403-AAB | CDMA2000 (1xEV-DO, Rev. 0)                                                      | X | 2.16   | 74.98  | 16.58 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                 | Y | 1.28   | 66.95  | 12.79 |      | 115.0 |         |
|           |                                                                                 | Z | 1.74   | 71.36  | 15.26 |      | 115.0 |         |
| 10404-AAB | CDMA2000 (1xEV-DO, Rev. A)                                                      | X | 2.16   | 74.98  | 16.58 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                 | Y | 1.28   | 66.95  | 12.79 |      | 115.0 |         |
|           |                                                                                 | Z | 1.74   | 71.36  | 15.26 |      | 115.0 |         |
| 10406-AAB | CDMA2000, RC3, SO32, SCH0, Full Rate                                            | X | 100.00 | 119.17 | 29.16 | 0.00 | 100.0 | ± 9.6 % |
|           |                                                                                 | Y | 47.04  | 112.86 | 29.01 |      | 100.0 |         |
|           |                                                                                 | Z | 100.00 | 124.79 | 31.86 |      | 100.0 |         |
| 10410-AAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4) | X | 100.00 | 123.22 | 30.54 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                                 | Y | 100.00 | 123.25 | 30.93 |      | 80.0  |         |
|           |                                                                                 | Z | 100.00 | 121.48 | 29.86 |      | 80.0  |         |
| 10415-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)                       | X | 1.03   | 64.28  | 15.82 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 0.91   | 62.36  | 14.20 |      | 150.0 |         |
|           |                                                                                 | Z | 0.95   | 63.47  | 15.29 |      | 150.0 |         |
| 10416-AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)                   | X | 4.52   | 66.97  | 16.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.49   | 66.36  | 16.15 |      | 150.0 |         |
|           |                                                                                 | Z | 4.56   | 66.63  | 16.41 |      | 150.0 |         |
| 10417-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)                       | X | 4.52   | 66.97  | 16.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.49   | 66.36  | 16.15 |      | 150.0 |         |
|           |                                                                                 | Z | 4.56   | 66.63  | 16.41 |      | 150.0 |         |
| 10418-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)   | X | 4.51   | 67.16  | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.48   | 66.50  | 16.16 |      | 150.0 |         |
|           |                                                                                 | Z | 4.55   | 66.78  | 16.42 |      | 150.0 |         |
| 10419-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)  | X | 4.53   | 67.09  | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.50   | 66.46  | 16.17 |      | 150.0 |         |
|           |                                                                                 | Z | 4.57   | 66.73  | 16.43 |      | 150.0 |         |
| 10422-AAB | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)                                    | X | 4.64   | 67.06  | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.63   | 66.47  | 16.19 |      | 150.0 |         |
|           |                                                                                 | Z | 4.69   | 66.73  | 16.44 |      | 150.0 |         |
| 10423-AAB | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)                                 | X | 4.80   | 67.37  | 16.62 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.80   | 66.81  | 16.31 |      | 150.0 |         |
|           |                                                                                 | Z | 4.87   | 67.08  | 16.56 |      | 150.0 |         |
| 10424-AAB | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)                                 | X | 4.73   | 67.33  | 16.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.72   | 66.75  | 16.28 |      | 150.0 |         |
|           |                                                                                 | Z | 4.79   | 67.03  | 16.53 |      | 150.0 |         |
| 10425-AAB | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)                                     | X | 5.32   | 67.53  | 16.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.35   | 67.19  | 16.53 |      | 150.0 |         |
|           |                                                                                 | Z | 5.41   | 67.42  | 16.74 |      | 150.0 |         |
| 10426-AAB | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)                                   | X | 5.34   | 67.60  | 16.75 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.35   | 67.21  | 16.53 |      | 150.0 |         |
|           |                                                                                 | Z | 5.42   | 67.44  | 16.74 |      | 150.0 |         |

|           |                                                                |   |        |        |       |      |       |         |
|-----------|----------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10427-AAB | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)                 | X | 5.34   | 67.55  | 16.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.36   | 67.16  | 16.50 |      | 150.0 |         |
|           |                                                                | Z | 5.42   | 67.39  | 16.71 |      | 150.0 |         |
| 10430-AAB | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)                               | X | 4.45   | 72.34  | 18.98 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.23   | 70.61  | 18.19 |      | 150.0 |         |
|           |                                                                | Z | 4.46   | 71.63  | 18.92 |      | 150.0 |         |
| 10431-AAB | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)                              | X | 4.21   | 67.67  | 16.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.18   | 66.90  | 16.13 |      | 150.0 |         |
|           |                                                                | Z | 4.27   | 67.27  | 16.47 |      | 150.0 |         |
| 10432-AAB | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)                              | X | 4.50   | 67.44  | 16.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.48   | 66.79  | 16.22 |      | 150.0 |         |
|           |                                                                | Z | 4.56   | 67.10  | 16.50 |      | 150.0 |         |
| 10433-AAB | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)                              | X | 4.74   | 67.37  | 16.62 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.73   | 66.79  | 16.30 |      | 150.0 |         |
|           |                                                                | Z | 4.81   | 67.07  | 16.56 |      | 150.0 |         |
| 10434-AAA | W-CDMA (BS Test Model 1, 64 DPCH)                              | X | 4.67   | 73.61  | 19.08 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.33   | 71.42  | 18.13 |      | 150.0 |         |
|           |                                                                | Z | 4.63   | 72.69  | 18.98 |      | 150.0 |         |
| 10435-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 122.96 | 30.42 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                | Y | 100.00 | 123.03 | 30.82 |      | 80.0  |         |
|           |                                                                | Z | 100.00 | 121.24 | 29.74 |      | 80.0  |         |
| 10447-AAB | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)                 | X | 3.53   | 67.93  | 15.94 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.46   | 66.82  | 15.40 |      | 150.0 |         |
|           |                                                                | Z | 3.58   | 67.41  | 15.91 |      | 150.0 |         |
| 10448-AAB | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)                | X | 4.05   | 67.46  | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.01   | 66.66  | 15.98 |      | 150.0 |         |
|           |                                                                | Z | 4.10   | 67.04  | 16.33 |      | 150.0 |         |
| 10449-AAB | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)                | X | 4.32   | 67.29  | 16.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.29   | 66.60  | 16.11 |      | 150.0 |         |
|           |                                                                | Z | 4.36   | 66.93  | 16.41 |      | 150.0 |         |
| 10450-AAB | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)                | X | 4.51   | 67.16  | 16.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.48   | 66.53  | 16.14 |      | 150.0 |         |
|           |                                                                | Z | 4.55   | 66.83  | 16.41 |      | 150.0 |         |
| 10451-AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)                | X | 3.43   | 68.17  | 15.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.35   | 66.96  | 14.99 |      | 150.0 |         |
|           |                                                                | Z | 3.50   | 67.67  | 15.58 |      | 150.0 |         |
| 10456-AAB | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)           | X | 6.19   | 68.04  | 16.84 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 6.21   | 67.72  | 16.67 |      | 150.0 |         |
|           |                                                                | Z | 6.27   | 67.93  | 16.85 |      | 150.0 |         |
| 10457-AAA | UMTS-FDD (DC-HSDPA)                                            | X | 3.78   | 65.60  | 16.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.73   | 64.97  | 15.86 |      | 150.0 |         |
|           |                                                                | Z | 3.77   | 65.24  | 16.13 |      | 150.0 |         |
| 10458-AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)                         | X | 4.28   | 72.82  | 18.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.93   | 70.47  | 17.43 |      | 150.0 |         |
|           |                                                                | Z | 4.19   | 71.65  | 18.27 |      | 150.0 |         |
| 10459-AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)                         | X | 5.16   | 69.26  | 18.59 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.12   | 68.34  | 18.30 |      | 150.0 |         |
|           |                                                                | Z | 5.26   | 68.82  | 18.73 |      | 150.0 |         |

|           |                                                                   |   |        |        |       |      |       |         |
|-----------|-------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10460-AAA | UMTS-FDD (WCDMA, AMR)                                             | X | 1.22   | 75.04  | 19.84 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                   | Y | 0.79   | 67.36  | 15.18 |      | 150.0 |         |
|           |                                                                   | Z | 1.04   | 72.67  | 18.32 |      | 150.0 |         |
| 10461-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 129.47 | 33.43 | 3.29 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 127.28 | 32.86 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 125.03 | 31.59 |      | 80.0  |         |
| 10462-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.27   | 72.28  | 13.39 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 4.56   | 75.48  | 15.26 |      | 80.0  |         |
|           |                                                                   | Z | 1.47   | 64.20  | 10.41 |      | 80.0  |         |
| 10463-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.15   | 62.24  | 8.85  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.75   | 65.10  | 10.83 |      | 80.0  |         |
|           |                                                                   | Z | 1.05   | 60.61  | 8.20  |      | 80.0  |         |
| 10464-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 126.26 | 31.77 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 124.34 | 31.34 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 121.62 | 29.86 |      | 80.0  |         |
| 10465-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.21   | 68.61  | 12.00 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 3.08   | 71.39  | 13.77 |      | 80.0  |         |
|           |                                                                   | Z | 1.32   | 63.14  | 9.86  |      | 80.0  |         |
| 10466-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 1.07   | 61.51  | 8.46  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.57   | 63.98  | 10.28 |      | 80.0  |         |
|           |                                                                   | Z | 1.00   | 60.20  | 7.94  |      | 80.0  |         |
| 10467-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 126.63 | 31.94 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 124.65 | 31.47 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 121.95 | 30.00 |      | 80.0  |         |
| 10468-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.42   | 69.48  | 12.34 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 3.36   | 72.31  | 14.12 |      | 80.0  |         |
|           |                                                                   | Z | 1.35   | 63.38  | 9.99  |      | 80.0  |         |
| 10469-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 1.07   | 61.53  | 8.46  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.57   | 64.00  | 10.29 |      | 80.0  |         |
|           |                                                                   | Z | 1.00   | 60.20  | 7.94  |      | 80.0  |         |
| 10470-AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 126.66 | 31.94 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 124.68 | 31.48 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 121.97 | 30.00 |      | 80.0  |         |
| 10471-AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 2.38   | 69.29  | 12.26 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 3.31   | 72.16  | 14.05 |      | 80.0  |         |
|           |                                                                   | Z | 1.34   | 63.31  | 9.94  |      | 80.0  |         |
| 10472-AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 1.06   | 61.47  | 8.42  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.55   | 63.94  | 10.24 |      | 80.0  |         |
|           |                                                                   | Z | 0.99   | 60.16  | 7.90  |      | 80.0  |         |
| 10473-AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 126.62 | 31.92 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 124.64 | 31.46 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 121.92 | 29.98 |      | 80.0  |         |
| 10474-AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 2.35   | 69.21  | 12.23 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 3.28   | 72.07  | 14.02 |      | 80.0  |         |
|           |                                                                   | Z | 1.33   | 63.28  | 9.92  |      | 80.0  |         |
| 10475-AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 1.05   | 61.45  | 8.41  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.55   | 63.91  | 10.23 |      | 80.0  |         |
|           |                                                                   | Z | 0.99   | 60.15  | 7.90  |      | 80.0  |         |

|           |                                                                     |   |       |        |       |      |      |         |
|-----------|---------------------------------------------------------------------|---|-------|--------|-------|------|------|---------|
| 10477-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)    | X | 2.18  | 68.48  | 11.93 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.05  | 71.31  | 13.72 |      | 80.0 |         |
|           |                                                                     | Z | 1.30  | 63.05  | 9.80  |      | 80.0 |         |
| 10478-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)    | X | 1.05  | 61.39  | 8.37  | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.54  | 63.84  | 10.19 |      | 80.0 |         |
|           |                                                                     | Z | 0.99  | 60.11  | 7.87  |      | 80.0 |         |
| 10479-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 22.66 | 104.04 | 28.31 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 10.52 | 91.75  | 25.16 |      | 80.0 |         |
|           |                                                                     | Z | 7.12  | 85.84  | 23.15 |      | 80.0 |         |
| 10480-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 18.76 | 93.01  | 22.77 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 9.38  | 84.15  | 20.83 |      | 80.0 |         |
|           |                                                                     | Z | 6.29  | 78.88  | 18.94 |      | 80.0 |         |
| 10481-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 10.50 | 84.61  | 19.86 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 7.10  | 79.67  | 18.96 |      | 80.0 |         |
|           |                                                                     | Z | 4.94  | 75.07  | 17.20 |      | 80.0 |         |
| 10482-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 4.07  | 77.55  | 18.95 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.75  | 71.25  | 16.55 |      | 80.0 |         |
|           |                                                                     | Z | 2.95  | 72.71  | 17.37 |      | 80.0 |         |
| 10483-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 5.36  | 76.63  | 17.79 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.22  | 76.19  | 18.27 |      | 80.0 |         |
|           |                                                                     | Z | 4.21  | 73.47  | 17.21 |      | 80.0 |         |
| 10484-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.71  | 74.71  | 17.09 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.77  | 74.70  | 17.72 |      | 80.0 |         |
|           |                                                                     | Z | 3.96  | 72.36  | 16.79 |      | 80.0 |         |
| 10485-AAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 4.16  | 78.26  | 20.41 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.12  | 72.88  | 18.19 |      | 80.0 |         |
|           |                                                                     | Z | 3.23  | 73.87  | 18.78 |      | 80.0 |         |
| 10486-AAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.46  | 71.60  | 17.12 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.98  | 68.63  | 15.94 |      | 80.0 |         |
|           |                                                                     | Z | 3.03  | 69.17  | 16.37 |      | 80.0 |         |
| 10487-AAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.40  | 70.94  | 16.82 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.98  | 68.26  | 15.77 |      | 80.0 |         |
|           |                                                                     | Z | 3.03  | 68.76  | 16.19 |      | 80.0 |         |
| 10488-AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 3.89  | 75.14  | 20.03 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.40  | 72.05  | 18.54 |      | 80.0 |         |
|           |                                                                     | Z | 3.45  | 72.57  | 18.88 |      | 80.0 |         |
| 10489-AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.51  | 70.20  | 17.93 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.28  | 68.37  | 17.06 |      | 80.0 |         |
|           |                                                                     | Z | 3.27  | 68.52  | 17.26 |      | 80.0 |         |
| 10490-AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.58  | 69.92  | 17.81 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.38  | 68.21  | 17.01 |      | 80.0 |         |
|           |                                                                     | Z | 3.36  | 68.32  | 17.19 |      | 80.0 |         |
| 10491-AAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 3.92  | 72.56  | 19.10 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.62  | 70.46  | 18.01 |      | 80.0 |         |
|           |                                                                     | Z | 3.62  | 70.74  | 18.23 |      | 80.0 |         |
| 10492-AAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.77  | 68.93  | 17.69 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.64  | 67.67  | 17.05 |      | 80.0 |         |
|           |                                                                     | Z | 3.60  | 67.70  | 17.16 |      | 80.0 |         |

|           |                                                                      |   |      |       |       |      |      |         |
|-----------|----------------------------------------------------------------------|---|------|-------|-------|------|------|---------|
| 10493-AAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.82 | 68.75 | 17.61 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.71 | 67.55 | 17.01 |      | 80.0 |         |
|           |                                                                      | Z | 3.67 | 67.56 | 17.12 |      | 80.0 |         |
| 10494-AAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 4.37 | 74.54 | 19.74 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.94 | 72.05 | 18.49 |      | 80.0 |         |
|           |                                                                      | Z | 3.99 | 72.51 | 18.77 |      | 80.0 |         |
| 10495-AAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.81 | 69.34 | 17.91 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.67 | 68.08 | 17.25 |      | 80.0 |         |
|           |                                                                      | Z | 3.64 | 68.16 | 17.38 |      | 80.0 |         |
| 10496-AAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.87 | 68.98 | 17.78 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.75 | 67.81 | 17.17 |      | 80.0 |         |
|           |                                                                      | Z | 3.72 | 67.85 | 17.28 |      | 80.0 |         |
| 10497-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 2.51 | 70.53 | 15.01 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.89 | 66.41 | 13.46 |      | 80.0 |         |
|           |                                                                      | Z | 2.04 | 67.84 | 14.35 |      | 80.0 |         |
| 10498-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.46 | 61.52 | 9.68  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.55 | 61.46 | 10.01 |      | 80.0 |         |
|           |                                                                      | Z | 1.62 | 62.12 | 10.57 |      | 80.0 |         |
| 10499-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.40 | 60.84 | 9.17  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.52 | 61.02 | 9.63  |      | 80.0 |         |
|           |                                                                      | Z | 1.59 | 61.62 | 10.17 |      | 80.0 |         |
| 10500-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 3.90 | 76.38 | 20.05 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.17 | 72.17 | 18.21 |      | 80.0 |         |
|           |                                                                      | Z | 3.23 | 72.85 | 18.65 |      | 80.0 |         |
| 10501-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.50 | 71.10 | 17.46 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.12 | 68.58 | 16.40 |      | 80.0 |         |
|           |                                                                      | Z | 3.14 | 68.92 | 16.72 |      | 80.0 |         |
| 10502-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.54 | 70.86 | 17.28 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.18 | 68.44 | 16.28 |      | 80.0 |         |
|           |                                                                      | Z | 3.20 | 68.76 | 16.60 |      | 80.0 |         |
| 10503-AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 3.83 | 74.89 | 19.91 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.36 | 71.83 | 18.43 |      | 80.0 |         |
|           |                                                                      | Z | 3.40 | 72.34 | 18.77 |      | 80.0 |         |
| 10504-AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.49 | 70.09 | 17.87 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.27 | 68.27 | 17.00 |      | 80.0 |         |
|           |                                                                      | Z | 3.25 | 68.42 | 17.20 |      | 80.0 |         |
| 10505-AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.56 | 69.81 | 17.75 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.36 | 68.11 | 16.95 |      | 80.0 |         |
|           |                                                                      | Z | 3.34 | 68.22 | 17.13 |      | 80.0 |         |
| 10506-AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 4.33 | 74.37 | 19.66 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.91 | 71.89 | 18.41 |      | 80.0 |         |
|           |                                                                      | Z | 3.95 | 72.35 | 18.69 |      | 80.0 |         |
| 10507-AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.79 | 69.27 | 17.87 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.66 | 68.02 | 17.21 |      | 80.0 |         |
|           |                                                                      | Z | 3.63 | 68.09 | 17.34 |      | 80.0 |         |

|           |                                                                     |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10508-AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.86 | 68.91 | 17.74 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.74 | 67.74 | 17.13 |      | 80.0  |         |
|           |                                                                     | Z | 3.71 | 67.78 | 17.24 |      | 80.0  |         |
| 10509-AAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 4.53 | 72.39 | 18.83 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.22 | 70.56 | 17.87 |      | 80.0  |         |
|           |                                                                     | Z | 4.23 | 70.82 | 18.05 |      | 80.0  |         |
| 10510-AAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.24 | 68.74 | 17.72 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.14 | 67.79 | 17.20 |      | 80.0  |         |
|           |                                                                     | Z | 4.11 | 67.81 | 17.28 |      | 80.0  |         |
| 10511-AAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.28 | 68.44 | 17.62 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.19 | 67.53 | 17.14 |      | 80.0  |         |
|           |                                                                     | Z | 4.15 | 67.52 | 17.20 |      | 80.0  |         |
| 10512-AAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 4.88 | 74.48 | 19.52 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.42 | 72.17 | 18.36 |      | 80.0  |         |
|           |                                                                     | Z | 4.47 | 72.62 | 18.62 |      | 80.0  |         |
| 10513-AAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.13 | 69.07 | 17.87 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.03 | 68.07 | 17.31 |      | 80.0  |         |
|           |                                                                     | Z | 4.00 | 68.14 | 17.42 |      | 80.0  |         |
| 10514-AAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.14 | 68.57 | 17.70 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.05 | 67.64 | 17.19 |      | 80.0  |         |
|           |                                                                     | Z | 4.01 | 67.67 | 17.27 |      | 80.0  |         |
| 10515-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)           | X | 0.99 | 64.60 | 15.97 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.87 | 62.53 | 14.23 |      | 150.0 |         |
|           |                                                                     | Z | 0.91 | 63.76 | 15.41 |      | 150.0 |         |
| 10516-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)         | X | 1.57 | 90.52 | 26.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.52 | 70.36 | 15.95 |      | 150.0 |         |
|           |                                                                     | Z | 1.41 | 88.12 | 24.00 |      | 150.0 |         |
| 10517-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)          | X | 0.90 | 68.15 | 17.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.72 | 64.40 | 14.65 |      | 150.0 |         |
|           |                                                                     | Z | 0.81 | 67.00 | 16.64 |      | 150.0 |         |
| 10518-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)           | X | 4.51 | 67.06 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.49 | 66.43 | 16.13 |      | 150.0 |         |
|           |                                                                     | Z | 4.55 | 66.71 | 16.39 |      | 150.0 |         |
| 10519-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)          | X | 4.69 | 67.26 | 16.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.68 | 66.69 | 16.26 |      | 150.0 |         |
|           |                                                                     | Z | 4.75 | 66.97 | 16.52 |      | 150.0 |         |
| 10520-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)          | X | 4.54 | 67.24 | 16.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.53 | 66.65 | 16.17 |      | 150.0 |         |
|           |                                                                     | Z | 4.61 | 66.95 | 16.45 |      | 150.0 |         |
| 10521-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)          | X | 4.48 | 67.24 | 16.50 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.46 | 66.64 | 16.15 |      | 150.0 |         |
|           |                                                                     | Z | 4.54 | 66.96 | 16.44 |      | 150.0 |         |
| 10522-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)          | X | 4.54 | 67.36 | 16.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.52 | 66.71 | 16.23 |      | 150.0 |         |
|           |                                                                     | Z | 4.59 | 67.00 | 16.50 |      | 150.0 |         |

|           |                                                            |   |      |       |       |      |       |         |
|-----------|------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10523-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | X | 4.43 | 67.25 | 16.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.40 | 66.56 | 16.07 |      | 150.0 |         |
|           |                                                            | Z | 4.47 | 66.87 | 16.35 |      | 150.0 |         |
| 10524-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) | X | 4.48 | 67.27 | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.47 | 66.64 | 16.20 |      | 150.0 |         |
|           |                                                            | Z | 4.54 | 66.94 | 16.48 |      | 150.0 |         |
| 10525-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)          | X | 4.48 | 66.34 | 16.17 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.45 | 65.66 | 15.79 |      | 150.0 |         |
|           |                                                            | Z | 4.52 | 65.96 | 16.07 |      | 150.0 |         |
| 10526-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)          | X | 4.64 | 66.69 | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.62 | 66.04 | 15.94 |      | 150.0 |         |
|           |                                                            | Z | 4.70 | 66.36 | 16.21 |      | 150.0 |         |
| 10527-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)          | X | 4.57 | 66.67 | 16.25 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.54 | 66.00 | 15.88 |      | 150.0 |         |
|           |                                                            | Z | 4.62 | 66.33 | 16.16 |      | 150.0 |         |
| 10528-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)          | X | 4.58 | 66.68 | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.56 | 66.02 | 15.91 |      | 150.0 |         |
|           |                                                            | Z | 4.64 | 66.35 | 16.19 |      | 150.0 |         |
| 10529-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)          | X | 4.58 | 66.68 | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.56 | 66.02 | 15.91 |      | 150.0 |         |
|           |                                                            | Z | 4.64 | 66.35 | 16.19 |      | 150.0 |         |
| 10531-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)          | X | 4.57 | 66.78 | 16.29 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.55 | 66.14 | 15.93 |      | 150.0 |         |
|           |                                                            | Z | 4.64 | 66.48 | 16.22 |      | 150.0 |         |
| 10532-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)          | X | 4.44 | 66.64 | 16.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.41 | 65.98 | 15.86 |      | 150.0 |         |
|           |                                                            | Z | 4.49 | 66.34 | 16.16 |      | 150.0 |         |
| 10533-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)          | X | 4.60 | 66.74 | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.57 | 66.06 | 15.90 |      | 150.0 |         |
|           |                                                            | Z | 4.65 | 66.38 | 16.18 |      | 150.0 |         |
| 10534-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)          | X | 5.11 | 66.67 | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.10 | 66.18 | 16.00 |      | 150.0 |         |
|           |                                                            | Z | 5.17 | 66.45 | 16.24 |      | 150.0 |         |
| 10535-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)          | X | 5.18 | 66.86 | 16.37 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.17 | 66.36 | 16.08 |      | 150.0 |         |
|           |                                                            | Z | 5.24 | 66.62 | 16.31 |      | 150.0 |         |
| 10536-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)          | X | 5.05 | 66.83 | 16.34 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.03 | 66.29 | 16.03 |      | 150.0 |         |
|           |                                                            | Z | 5.11 | 66.58 | 16.28 |      | 150.0 |         |
| 10537-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)          | X | 5.11 | 66.78 | 16.31 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.10 | 66.27 | 16.02 |      | 150.0 |         |
|           |                                                            | Z | 5.17 | 66.56 | 16.26 |      | 150.0 |         |
| 10538-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)          | X | 5.19 | 66.77 | 16.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.19 | 66.31 | 16.08 |      | 150.0 |         |
|           |                                                            | Z | 5.27 | 66.59 | 16.32 |      | 150.0 |         |
| 10540-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)          | X | 5.12 | 66.79 | 16.37 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.12 | 66.32 | 16.10 |      | 150.0 |         |
|           |                                                            | Z | 5.19 | 66.59 | 16.34 |      | 150.0 |         |

|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10541-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)  | X | 5.10 | 66.67 | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.09 | 66.17 | 16.02 |      | 150.0 |         |
|           |                                                    | Z | 5.16 | 66.44 | 16.26 |      | 150.0 |         |
| 10542-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)  | X | 5.25 | 66.73 | 16.34 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.25 | 66.25 | 16.08 |      | 150.0 |         |
|           |                                                    | Z | 5.32 | 66.51 | 16.31 |      | 150.0 |         |
| 10543-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)  | X | 5.32 | 66.74 | 16.37 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.33 | 66.31 | 16.13 |      | 150.0 |         |
|           |                                                    | Z | 5.40 | 66.56 | 16.35 |      | 150.0 |         |
| 10544-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)  | X | 5.43 | 66.75 | 16.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.40 | 66.27 | 15.99 |      | 150.0 |         |
|           |                                                    | Z | 5.46 | 66.52 | 16.21 |      | 150.0 |         |
| 10545-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)  | X | 5.62 | 67.17 | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.62 | 66.75 | 16.18 |      | 150.0 |         |
|           |                                                    | Z | 5.69 | 67.01 | 16.39 |      | 150.0 |         |
| 10546-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)  | X | 5.49 | 66.94 | 16.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.48 | 66.52 | 16.08 |      | 150.0 |         |
|           |                                                    | Z | 5.55 | 66.80 | 16.30 |      | 150.0 |         |
| 10547-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)  | X | 5.56 | 66.99 | 16.33 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.56 | 66.58 | 16.10 |      | 150.0 |         |
|           |                                                    | Z | 5.64 | 66.88 | 16.33 |      | 150.0 |         |
| 10548-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)  | X | 5.78 | 67.85 | 16.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.92 | 67.82 | 16.68 |      | 150.0 |         |
|           |                                                    | Z | 6.02 | 68.18 | 16.94 |      | 150.0 |         |
| 10550-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)  | X | 5.52 | 66.99 | 16.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.51 | 66.53 | 16.09 |      | 150.0 |         |
|           |                                                    | Z | 5.57 | 66.78 | 16.30 |      | 150.0 |         |
| 10551-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)  | X | 5.52 | 67.01 | 16.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.51 | 66.55 | 16.06 |      | 150.0 |         |
|           |                                                    | Z | 5.58 | 66.82 | 16.28 |      | 150.0 |         |
| 10552-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)  | X | 5.44 | 66.84 | 16.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.41 | 66.33 | 15.96 |      | 150.0 |         |
|           |                                                    | Z | 5.48 | 66.58 | 16.18 |      | 150.0 |         |
| 10553-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)  | X | 5.52 | 66.84 | 16.27 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.50 | 66.37 | 16.01 |      | 150.0 |         |
|           |                                                    | Z | 5.57 | 66.63 | 16.23 |      | 150.0 |         |
| 10554-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle) | X | 5.84 | 67.09 | 16.33 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.82 | 66.65 | 16.09 |      | 150.0 |         |
|           |                                                    | Z | 5.88 | 66.90 | 16.29 |      | 150.0 |         |
| 10555-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle) | X | 5.96 | 67.38 | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.96 | 66.99 | 16.23 |      | 150.0 |         |
|           |                                                    | Z | 6.02 | 67.24 | 16.44 |      | 150.0 |         |
| 10556-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle) | X | 5.99 | 67.44 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.98 | 67.02 | 16.24 |      | 150.0 |         |
|           |                                                    | Z | 6.04 | 67.27 | 16.45 |      | 150.0 |         |
| 10557-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle) | X | 5.95 | 67.33 | 16.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.94 | 66.93 | 16.22 |      | 150.0 |         |
|           |                                                    | Z | 6.01 | 67.18 | 16.43 |      | 150.0 |         |

|           |                                                                 |   |       |        |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10558-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)              | X | 5.99  | 67.49  | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.00  | 67.11  | 16.32 |      | 150.0 |         |
|           |                                                                 | Z | 6.07  | 67.38  | 16.54 |      | 150.0 |         |
| 10560-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)              | X | 5.99  | 67.33  | 16.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.98  | 66.93  | 16.27 |      | 150.0 |         |
|           |                                                                 | Z | 6.05  | 67.18  | 16.48 |      | 150.0 |         |
| 10561-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)              | X | 5.91  | 67.31  | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.91  | 66.92  | 16.30 |      | 150.0 |         |
|           |                                                                 | Z | 5.97  | 67.17  | 16.51 |      | 150.0 |         |
| 10562-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)              | X | 6.02  | 67.64  | 16.68 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.06  | 67.37  | 16.53 |      | 150.0 |         |
|           |                                                                 | Z | 6.14  | 67.67  | 16.76 |      | 150.0 |         |
| 10563-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)              | X | 6.14  | 67.63  | 16.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.40  | 67.99  | 16.79 |      | 150.0 |         |
|           |                                                                 | Z | 6.54  | 68.40  | 17.07 |      | 150.0 |         |
| 10564-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)  | X | 4.83  | 67.06  | 16.58 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.81  | 66.51  | 16.28 |      | 150.0 |         |
|           |                                                                 | Z | 4.87  | 66.74  | 16.51 |      | 150.0 |         |
| 10565-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | X | 5.05  | 67.50  | 16.90 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.06  | 66.99  | 16.63 |      | 150.0 |         |
|           |                                                                 | Z | 5.12  | 67.24  | 16.86 |      | 150.0 |         |
| 10566-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | X | 4.88  | 67.35  | 16.72 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.89  | 66.83  | 16.44 |      | 150.0 |         |
|           |                                                                 | Z | 4.95  | 67.08  | 16.66 |      | 150.0 |         |
| 10567-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | X | 4.92  | 67.77  | 17.10 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.91  | 67.24  | 16.80 |      | 150.0 |         |
|           |                                                                 | Z | 4.99  | 67.52  | 17.05 |      | 150.0 |         |
| 10568-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | X | 4.79  | 67.12  | 16.48 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.79  | 66.58  | 16.18 |      | 150.0 |         |
|           |                                                                 | Z | 4.85  | 66.80  | 16.39 |      | 150.0 |         |
| 10569-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | X | 4.89  | 67.91  | 17.19 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.86  | 67.30  | 16.85 |      | 150.0 |         |
|           |                                                                 | Z | 4.93  | 67.58  | 17.10 |      | 150.0 |         |
| 10570-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | X | 4.91  | 67.72  | 17.09 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.90  | 67.16  | 16.79 |      | 150.0 |         |
|           |                                                                 | Z | 4.97  | 67.43  | 17.03 |      | 150.0 |         |
| 10571-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)       | X | 1.16  | 65.48  | 16.57 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.04  | 63.66  | 15.10 |      | 130.0 |         |
|           |                                                                 | Z | 1.06  | 64.46  | 15.94 |      | 130.0 |         |
| 10572-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)       | X | 1.18  | 66.21  | 17.02 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.05  | 64.22  | 15.46 |      | 130.0 |         |
|           |                                                                 | Z | 1.08  | 65.16  | 16.38 |      | 130.0 |         |
| 10573-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)     | X | 43.96 | 143.35 | 39.94 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 2.00  | 86.04  | 22.34 |      | 130.0 |         |
|           |                                                                 | Z | 20.42 | 126.57 | 34.62 |      | 130.0 |         |
| 10574-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)      | X | 1.46  | 74.85  | 21.36 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.15  | 70.20  | 18.44 |      | 130.0 |         |
|           |                                                                 | Z | 1.31  | 73.62  | 20.61 |      | 130.0 |         |

|           |                                                                 |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10575-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | X | 4.60 | 66.82 | 16.61 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.60 | 66.29 | 16.34 |      | 130.0 |         |
|           |                                                                 | Z | 4.64 | 66.48 | 16.53 |      | 130.0 |         |
| 10576-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | X | 4.63 | 67.01 | 16.69 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.62 | 66.46 | 16.40 |      | 130.0 |         |
|           |                                                                 | Z | 4.67 | 66.66 | 16.60 |      | 130.0 |         |
| 10577-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | X | 4.82 | 67.28 | 16.84 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.84 | 66.79 | 16.59 |      | 130.0 |         |
|           |                                                                 | Z | 4.89 | 66.99 | 16.79 |      | 130.0 |         |
| 10578-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | X | 4.73 | 67.46 | 16.97 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.73 | 66.94 | 16.69 |      | 130.0 |         |
|           |                                                                 | Z | 4.79 | 67.18 | 16.91 |      | 130.0 |         |
| 10579-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | X | 4.48 | 66.68 | 16.24 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.49 | 66.20 | 15.97 |      | 130.0 |         |
|           |                                                                 | Z | 4.54 | 66.39 | 16.16 |      | 130.0 |         |
| 10580-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | X | 4.52 | 66.73 | 16.27 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.54 | 66.23 | 15.99 |      | 130.0 |         |
|           |                                                                 | Z | 4.59 | 66.40 | 16.17 |      | 130.0 |         |
| 10581-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | X | 4.63 | 67.52 | 16.92 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.62 | 66.97 | 16.62 |      | 130.0 |         |
|           |                                                                 | Z | 4.68 | 67.20 | 16.84 |      | 130.0 |         |
| 10582-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | X | 4.42 | 66.43 | 16.02 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.44 | 65.96 | 15.76 |      | 130.0 |         |
|           |                                                                 | Z | 4.49 | 66.14 | 15.94 |      | 130.0 |         |
| 10583-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)       | X | 4.60 | 66.82 | 16.61 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.60 | 66.29 | 16.34 |      | 130.0 |         |
|           |                                                                 | Z | 4.64 | 66.48 | 16.53 |      | 130.0 |         |
| 10584-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)       | X | 4.63 | 67.01 | 16.69 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.62 | 66.46 | 16.40 |      | 130.0 |         |
|           |                                                                 | Z | 4.67 | 66.66 | 16.60 |      | 130.0 |         |
| 10585-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)      | X | 4.82 | 67.28 | 16.84 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.84 | 66.79 | 16.59 |      | 130.0 |         |
|           |                                                                 | Z | 4.89 | 66.99 | 16.79 |      | 130.0 |         |
| 10586-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)      | X | 4.73 | 67.46 | 16.97 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.73 | 66.94 | 16.69 |      | 130.0 |         |
|           |                                                                 | Z | 4.79 | 67.18 | 16.91 |      | 130.0 |         |
| 10587-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)      | X | 4.48 | 66.68 | 16.24 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.49 | 66.20 | 15.97 |      | 130.0 |         |
|           |                                                                 | Z | 4.54 | 66.39 | 16.16 |      | 130.0 |         |
| 10588-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)      | X | 4.52 | 66.73 | 16.27 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.54 | 66.23 | 15.99 |      | 130.0 |         |
|           |                                                                 | Z | 4.59 | 66.40 | 16.17 |      | 130.0 |         |
| 10589-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)      | X | 4.63 | 67.52 | 16.92 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.62 | 66.97 | 16.62 |      | 130.0 |         |
|           |                                                                 | Z | 4.68 | 67.20 | 16.84 |      | 130.0 |         |
| 10590-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)      | X | 4.42 | 66.43 | 16.02 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.44 | 65.96 | 15.76 |      | 130.0 |         |
|           |                                                                 | Z | 4.49 | 66.14 | 15.94 |      | 130.0 |         |

|           |                                                       |   |      |       |       |      |       |         |
|-----------|-------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10591-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) | X | 4.75 | 66.87 | 16.70 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.75 | 66.37 | 16.45 |      | 130.0 |         |
|           |                                                       | Z | 4.80 | 66.55 | 16.63 |      | 130.0 |         |
| 10592-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle) | X | 4.90 | 67.21 | 16.84 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.91 | 66.71 | 16.58 |      | 130.0 |         |
|           |                                                       | Z | 4.96 | 66.91 | 16.77 |      | 130.0 |         |
| 10593-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle) | X | 4.82 | 67.11 | 16.71 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.83 | 66.62 | 16.46 |      | 130.0 |         |
|           |                                                       | Z | 4.88 | 66.82 | 16.65 |      | 130.0 |         |
| 10594-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle) | X | 4.87 | 67.28 | 16.87 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.88 | 66.79 | 16.62 |      | 130.0 |         |
|           |                                                       | Z | 4.94 | 66.99 | 16.81 |      | 130.0 |         |
| 10595-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle) | X | 4.84 | 67.24 | 16.77 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.85 | 66.74 | 16.51 |      | 130.0 |         |
|           |                                                       | Z | 4.91 | 66.94 | 16.70 |      | 130.0 |         |
| 10596-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle) | X | 4.78 | 67.24 | 16.78 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.79 | 66.73 | 16.51 |      | 130.0 |         |
|           |                                                       | Z | 4.84 | 66.94 | 16.70 |      | 130.0 |         |
| 10597-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle) | X | 4.73 | 67.13 | 16.65 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.74 | 66.64 | 16.39 |      | 130.0 |         |
|           |                                                       | Z | 4.79 | 66.85 | 16.59 |      | 130.0 |         |
| 10598-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle) | X | 4.71 | 67.38 | 16.93 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.72 | 66.89 | 16.66 |      | 130.0 |         |
|           |                                                       | Z | 4.78 | 67.13 | 16.88 |      | 130.0 |         |
| 10599-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle) | X | 5.41 | 67.32 | 16.87 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.44 | 66.98 | 16.69 |      | 130.0 |         |
|           |                                                       | Z | 5.48 | 67.15 | 16.85 |      | 130.0 |         |
| 10600-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) | X | 5.54 | 67.74 | 17.05 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.63 | 67.59 | 16.97 |      | 130.0 |         |
|           |                                                       | Z | 5.69 | 67.81 | 17.15 |      | 130.0 |         |
| 10601-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle) | X | 5.43 | 67.51 | 16.95 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.49 | 67.23 | 16.80 |      | 130.0 |         |
|           |                                                       | Z | 5.54 | 67.42 | 16.97 |      | 130.0 |         |
| 10602-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) | X | 5.55 | 67.59 | 16.91 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.58 | 67.24 | 16.72 |      | 130.0 |         |
|           |                                                       | Z | 5.62 | 67.39 | 16.87 |      | 130.0 |         |
| 10603-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) | X | 5.61 | 67.86 | 17.17 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.65 | 67.53 | 17.00 |      | 130.0 |         |
|           |                                                       | Z | 5.71 | 67.72 | 17.17 |      | 130.0 |         |
| 10604-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle) | X | 5.46 | 67.45 | 16.96 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.44 | 66.94 | 16.69 |      | 130.0 |         |
|           |                                                       | Z | 5.48 | 67.11 | 16.85 |      | 130.0 |         |
| 10605-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) | X | 5.54 | 67.66 | 17.06 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.58 | 67.37 | 16.91 |      | 130.0 |         |
|           |                                                       | Z | 5.62 | 67.51 | 17.04 |      | 130.0 |         |
| 10606-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle) | X | 5.27 | 66.94 | 16.56 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.32 | 66.69 | 16.42 |      | 130.0 |         |
|           |                                                       | Z | 5.35 | 66.82 | 16.56 |      | 130.0 |         |

|           |                                                   |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10607-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | X | 4.60 | 66.25 | 16.36 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.59 | 65.67 | 16.06 |      | 130.0 |         |
|           |                                                   | Z | 4.64 | 65.88 | 16.27 |      | 130.0 |         |
| 10608-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) | X | 4.78 | 66.65 | 16.53 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.78 | 66.09 | 16.23 |      | 130.0 |         |
|           |                                                   | Z | 4.84 | 66.31 | 16.44 |      | 130.0 |         |
| 10609-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) | X | 4.67 | 66.49 | 16.36 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.67 | 65.93 | 16.06 |      | 130.0 |         |
|           |                                                   | Z | 4.73 | 66.16 | 16.27 |      | 130.0 |         |
| 10610-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | X | 4.72 | 66.66 | 16.53 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.72 | 66.09 | 16.23 |      | 130.0 |         |
|           |                                                   | Z | 4.78 | 66.33 | 16.45 |      | 130.0 |         |
| 10611-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) | X | 4.64 | 66.46 | 16.37 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.63 | 65.90 | 16.07 |      | 130.0 |         |
|           |                                                   | Z | 4.69 | 66.13 | 16.29 |      | 130.0 |         |
| 10612-AAB | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) | X | 4.64 | 66.62 | 16.43 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.64 | 66.05 | 16.11 |      | 130.0 |         |
|           |                                                   | Z | 4.71 | 66.29 | 16.33 |      | 130.0 |         |
| 10613-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) | X | 4.64 | 66.47 | 16.29 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.65 | 65.94 | 16.00 |      | 130.0 |         |
|           |                                                   | Z | 4.71 | 66.18 | 16.21 |      | 130.0 |         |
| 10614-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle) | X | 4.60 | 66.69 | 16.55 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.59 | 66.13 | 16.24 |      | 130.0 |         |
|           |                                                   | Z | 4.65 | 66.40 | 16.47 |      | 130.0 |         |
| 10615-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) | X | 4.63 | 66.28 | 16.14 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.63 | 65.71 | 15.84 |      | 130.0 |         |
|           |                                                   | Z | 4.69 | 65.92 | 16.04 |      | 130.0 |         |
| 10616-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) | X | 5.25 | 66.64 | 16.52 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.26 | 66.22 | 16.29 |      | 130.0 |         |
|           |                                                   | Z | 5.31 | 66.43 | 16.47 |      | 130.0 |         |
| 10617-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) | X | 5.32 | 66.83 | 16.59 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.33 | 66.41 | 16.36 |      | 130.0 |         |
|           |                                                   | Z | 5.38 | 66.58 | 16.52 |      | 130.0 |         |
| 10618-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) | X | 5.21 | 66.86 | 16.62 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.21 | 66.40 | 16.37 |      | 130.0 |         |
|           |                                                   | Z | 5.26 | 66.62 | 16.56 |      | 130.0 |         |
| 10619-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) | X | 5.21 | 66.63 | 16.43 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.24 | 66.25 | 16.22 |      | 130.0 |         |
|           |                                                   | Z | 5.29 | 66.44 | 16.40 |      | 130.0 |         |
| 10620-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) | X | 5.30 | 66.65 | 16.49 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.33 | 66.28 | 16.29 |      | 130.0 |         |
|           |                                                   | Z | 5.39 | 66.50 | 16.48 |      | 130.0 |         |
| 10621-AAB | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) | X | 5.31 | 66.81 | 16.69 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.31 | 66.38 | 16.46 |      | 130.0 |         |
|           |                                                   | Z | 5.37 | 66.59 | 16.65 |      | 130.0 |         |
| 10622-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) | X | 5.32 | 66.98 | 16.77 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.34 | 66.58 | 16.56 |      | 130.0 |         |
|           |                                                   | Z | 5.39 | 66.79 | 16.74 |      | 130.0 |         |

|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10623-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)  | X | 5.20 | 66.48 | 16.39 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.20 | 66.06 | 16.17 |      | 130.0 |         |
|           |                                                    | Z | 5.25 | 66.25 | 16.34 |      | 130.0 |         |
| 10624-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)  | X | 5.38 | 66.68 | 16.55 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.41 | 66.29 | 16.35 |      | 130.0 |         |
|           |                                                    | Z | 5.46 | 66.49 | 16.52 |      | 130.0 |         |
| 10625-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)  | X | 5.69 | 67.49 | 17.01 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.85 | 67.51 | 17.01 |      | 130.0 |         |
|           |                                                    | Z | 5.93 | 67.77 | 17.20 |      | 130.0 |         |
| 10626-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)  | X | 5.55 | 66.68 | 16.46 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.54 | 66.26 | 16.24 |      | 130.0 |         |
|           |                                                    | Z | 5.58 | 66.45 | 16.40 |      | 130.0 |         |
| 10627-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)  | X | 5.79 | 67.25 | 16.70 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.82 | 66.93 | 16.53 |      | 130.0 |         |
|           |                                                    | Z | 5.87 | 67.12 | 16.69 |      | 130.0 |         |
| 10628-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)  | X | 5.57 | 66.73 | 16.38 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.59 | 66.40 | 16.20 |      | 130.0 |         |
|           |                                                    | Z | 5.64 | 66.59 | 16.36 |      | 130.0 |         |
| 10629-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)  | X | 5.65 | 66.79 | 16.40 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.69 | 66.52 | 16.25 |      | 130.0 |         |
|           |                                                    | Z | 5.73 | 66.67 | 16.39 |      | 130.0 |         |
| 10630-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)  | X | 6.03 | 68.15 | 17.08 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.29 | 68.49 | 17.22 |      | 130.0 |         |
|           |                                                    | Z | 6.38 | 68.79 | 17.43 |      | 130.0 |         |
| 10631-AAB | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)  | X | 5.96 | 68.05 | 17.22 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.06 | 67.94 | 17.16 |      | 130.0 |         |
|           |                                                    | Z | 6.15 | 68.25 | 17.38 |      | 130.0 |         |
| 10632-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)  | X | 5.76 | 67.33 | 16.89 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.78 | 66.97 | 16.69 |      | 130.0 |         |
|           |                                                    | Z | 5.83 | 67.17 | 16.87 |      | 130.0 |         |
| 10633-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)  | X | 5.64 | 66.92 | 16.51 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.65 | 66.54 | 16.30 |      | 130.0 |         |
|           |                                                    | Z | 5.71 | 66.76 | 16.48 |      | 130.0 |         |
| 10634-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)  | X | 5.62 | 66.95 | 16.58 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.63 | 66.56 | 16.37 |      | 130.0 |         |
|           |                                                    | Z | 5.69 | 66.78 | 16.55 |      | 130.0 |         |
| 10635-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)  | X | 5.49 | 66.24 | 15.95 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.52 | 65.90 | 15.77 |      | 130.0 |         |
|           |                                                    | Z | 5.56 | 66.07 | 15.92 |      | 130.0 |         |
| 10636-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | X | 5.97 | 67.02 | 16.52 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.97 | 66.67 | 16.35 |      | 130.0 |         |
|           |                                                    | Z | 6.01 | 66.85 | 16.50 |      | 130.0 |         |
| 10637-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle) | X | 6.12 | 67.41 | 16.70 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.14 | 67.11 | 16.55 |      | 130.0 |         |
|           |                                                    | Z | 6.19 | 67.29 | 16.70 |      | 130.0 |         |
| 10638-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle) | X | 6.12 | 67.38 | 16.66 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 6.14 | 67.07 | 16.51 |      | 130.0 |         |
|           |                                                    | Z | 6.19 | 67.25 | 16.66 |      | 130.0 |         |

|           |                                                        |   |        |        |       |       |       |         |
|-----------|--------------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10639-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)     | X | 6.09   | 67.31  | 16.68 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.11   | 67.00  | 16.52 |       | 130.0 |         |
|           |                                                        | Z | 6.16   | 67.20  | 16.68 |       | 130.0 |         |
| 10640-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)     | X | 6.09   | 67.31  | 16.62 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.13   | 67.04  | 16.47 |       | 130.0 |         |
|           |                                                        | Z | 6.18   | 67.25  | 16.64 |       | 130.0 |         |
| 10641-AAC | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)     | X | 6.15   | 67.24  | 16.60 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.15   | 66.89  | 16.42 |       | 130.0 |         |
|           |                                                        | Z | 6.19   | 67.04  | 16.56 |       | 130.0 |         |
| 10642-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)     | X | 6.18   | 67.49  | 16.89 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.20   | 67.16  | 16.73 |       | 130.0 |         |
|           |                                                        | Z | 6.25   | 67.36  | 16.89 |       | 130.0 |         |
| 10643-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)     | X | 6.02   | 67.17  | 16.63 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.04   | 66.85  | 16.47 |       | 130.0 |         |
|           |                                                        | Z | 6.08   | 67.03  | 16.62 |       | 130.0 |         |
| 10644-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)     | X | 6.16   | 67.59  | 16.86 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.24   | 67.46  | 16.79 |       | 130.0 |         |
|           |                                                        | Z | 6.31   | 67.70  | 16.97 |       | 130.0 |         |
| 10645-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)     | X | 6.33   | 67.74  | 16.89 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.77   | 68.58  | 17.30 |       | 130.0 |         |
|           |                                                        | Z | 6.86   | 68.86  | 17.49 |       | 130.0 |         |
| 10646-AAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)  | X | 21.37  | 115.44 | 39.45 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 16.57  | 106.59 | 36.30 |       | 60.0  |         |
|           |                                                        | Z | 12.85  | 100.08 | 33.69 |       | 60.0  |         |
| 10647-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | X | 17.53  | 111.56 | 38.45 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 14.74  | 104.61 | 35.82 |       | 60.0  |         |
|           |                                                        | Z | 11.56  | 98.37  | 33.26 |       | 60.0  |         |
| 10648-AAA | CDMA2000 (1x Advanced)                                 | X | 0.76   | 65.85  | 11.89 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                        | Y | 0.58   | 62.15  | 9.36  |       | 150.0 |         |
|           |                                                        | Z | 0.68   | 64.26  | 11.01 |       | 150.0 |         |
| 10652-AAB | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)         | X | 3.58   | 67.43  | 16.93 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.45   | 66.17  | 16.33 |       | 80.0  |         |
|           |                                                        | Z | 3.45   | 66.30  | 16.52 |       | 80.0  |         |
| 10653-AAB | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)        | X | 4.06   | 66.44  | 16.92 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.99   | 65.63  | 16.51 |       | 80.0  |         |
|           |                                                        | Z | 3.96   | 65.65  | 16.63 |       | 80.0  |         |
| 10654-AAB | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)        | X | 4.03   | 66.03  | 16.90 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.96   | 65.29  | 16.52 |       | 80.0  |         |
|           |                                                        | Z | 3.93   | 65.30  | 16.62 |       | 80.0  |         |
| 10655-AAB | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)        | X | 4.09   | 65.98  | 16.92 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 4.02   | 65.29  | 16.56 |       | 80.0  |         |
|           |                                                        | Z | 3.99   | 65.31  | 16.66 |       | 80.0  |         |
| 10658-AAA | Pulse Waveform (200Hz, 10%)                            | X | 29.16  | 94.14  | 21.13 | 10.00 | 50.0  | ± 9.6 % |
|           |                                                        | Y | 9.47   | 81.27  | 17.74 |       | 50.0  |         |
|           |                                                        | Z | 5.06   | 73.00  | 14.38 |       | 50.0  |         |
| 10659-AAA | Pulse Waveform (200Hz, 20%)                            | X | 100.00 | 106.49 | 22.76 | 6.99  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 100.00 | 105.92 | 22.67 |       | 60.0  |         |
|           |                                                        | Z | 6.66   | 77.90  | 14.77 |       | 60.0  |         |

|           |                             |   |        |        |       |      |       |         |
|-----------|-----------------------------|---|--------|--------|-------|------|-------|---------|
| 10660-AAA | Pulse Waveform (200Hz, 40%) | X | 100.00 | 106.89 | 21.67 | 3.98 | 80.0  | ± 9.6 % |
|           |                             | Y | 100.00 | 101.15 | 19.24 |      | 80.0  |         |
|           |                             | Z | 100.00 | 98.11  | 17.66 |      | 80.0  |         |
| 10661-AAA | Pulse Waveform (200Hz, 60%) | X | 100.00 | 109.97 | 21.79 | 2.22 | 100.0 | ± 9.6 % |
|           |                             | Y | 1.04   | 66.37  | 7.97  |      | 100.0 |         |
|           |                             | Z | 0.32   | 60.00  | 4.70  |      | 100.0 |         |
| 10662-AAA | Pulse Waveform (200Hz, 80%) | X | 100.00 | 122.28 | 24.82 | 0.97 | 120.0 | ± 9.6 % |
|           |                             | Y | 46.02  | 217.52 | 18.45 |      | 120.0 |         |
|           |                             | Z | 88.16  | 61.15  | 1.49  |      | 120.0 |         |

<sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

## APPENDIX D: SAR TISSUE SPECIFICATIONS

Measurement Procedure for Tissue verification:

- 1) The network analyzer and probe system was configured and calibrated.
- 2) The probe was immersed in the tissue. The tissue was placed in a nonmetallic container. Trapped air bubbles beneath the flange were minimized by placing the probe at a slight angle.
- 3) The complex admittance with respect to the probe aperture was measured
- 4) The complex relative permittivity  $\epsilon'$  can be calculated from the below equation (Pournaropoulos and Misra):

$$Y = \frac{j2\omega\epsilon_r\epsilon_0}{[\ln(b/a)]^2} \int_a^b \int_a^b \int_0^\pi \cos\phi' \frac{\exp[-j\omega r(\mu_0\epsilon_r'\epsilon_0)^{1/2}]}{r} d\phi' d\rho' d\rho$$

where  $Y$  is the admittance of the probe in contact with the sample, the primed and unprimed coordinates refer to source and observation points, respectively,  $r^2 = \rho^2 + \rho'^2 - 2\rho\rho'\cos\phi'$ ,  $\omega$  is the angular frequency, and  $j = \sqrt{-1}$ .

**Table D-I**  
**Composition of the Tissue Equivalent Matter**

| Frequency (MHz)           | 750        | 835   | 1750 | 1900  | 2300-2600 | 5200-5800 |
|---------------------------|------------|-------|------|-------|-----------|-----------|
| Tissue                    | Body       | Body  | Body | Body  | Body      | Body      |
| Ingredients (% by weight) |            |       |      |       |           |           |
| Bactericide               | See page 2 | 0.1   |      |       |           |           |
| DGBE                      |            |       | 31   | 29.44 | 26.7      |           |
| HEC                       |            | 1     |      |       |           |           |
| NaCl                      |            | 0.94  | 0.2  | 0.39  | 0.1       |           |
| Sucrose                   |            | 44.9  |      |       |           |           |
| Polysorbate (Tween) 80    |            |       |      |       |           | 20        |
| Water                     |            | 53.06 | 68.8 | 70.17 | 73.2      | 80        |

|                                           |                                                                                                                                   |                              |                                        |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|
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| <b>Test Dates:</b><br>09/06/18 - 09/21/18 | <b>DUT Type:</b><br>Tablet Device                                                                                                 |                              | <b>APPENDIX D:</b><br>Page 1 of 2      |

## 2 Composition / Information on ingredients

The Item is composed of the following ingredients:

|                                                                  |                                                                                                                                                     |
|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| H <sub>2</sub> O                                                 | Water, 35 – 58%                                                                                                                                     |
| Sucrose                                                          | Sugar, white, refined, 40 – 60%                                                                                                                     |
| NaCl                                                             | Sodium Chloride, 0 – 6%                                                                                                                             |
| Hydroxyethyl-cellulose                                           | Medium Viscosity (CAS# 9004-62-0), <0.3%                                                                                                            |
| Preventol-D7                                                     | Preservative: aqueous preparation, (CAS# 55965-84-9), containing 5-chloro-2-methyl-3(2H)-isothiazolone and 2-methyl-3(2H)-isothiazolone, 0.1 – 0.7% |
| Relevant for safety; Refer to the respective Safety Data Sheet*. |                                                                                                                                                     |

**Figure D-1**

### Composition of 750 MHz Body Tissue Equivalent Matter

**Note:** 750MHz liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

Schmid & Partner Engineering AG

**s p e a g**

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#### Measurement Certificate / Material Test

|              |                                          |
|--------------|------------------------------------------|
| Item Name    | Body Tissue Simulating Liquid (MSL750V2) |
| Product No.  | SL AAM 075 AA (Batch: 170608-1)          |
| Manufacturer | SPEAG                                    |

#### Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

#### Setup Validation

Validation results were within  $\pm 2.5\%$  towards the target values of Methanol.

#### Target Parameters

Target parameters as defined in the IEEE 1528 and IEC 62209 compliance standards.

#### Test Condition

|                 |                                                             |
|-----------------|-------------------------------------------------------------|
| Ambient         | Environment temperatur ( $22 \pm 3$ )°C and humidity < 70%. |
| TSL Temperature | 22°C                                                        |
| Test Date       | 20-Jun-17                                                   |
| Operator        | CL                                                          |

#### Additional Information

|                   |                         |
|-------------------|-------------------------|
| TSL Density       | 1.212 g/cm <sup>3</sup> |
| TSL Heat-capacity | 3.006 kJ/(kg·K)         |

| f [MHz] | Measured |       |       | Target |       | Diff. to Target [%] |         |
|---------|----------|-------|-------|--------|-------|---------------------|---------|
|         | e'       | e''   | sigma | eps    | sigma | Δ-eps               | Δ-sigma |
| 600     | 57.3     | 25.02 | 0.84  | 56.1   | 0.95  | 2.2                 | -12.2   |
| 625     | 57.1     | 24.67 | 0.86  | 56.0   | 0.95  | 1.9                 | -10.1   |
| 650     | 56.8     | 24.32 | 0.88  | 55.9   | 0.96  | 1.6                 | -8.0    |
| 675     | 56.6     | 24.02 | 0.90  | 55.8   | 0.96  | 1.3                 | -5.8    |
| 700     | 56.3     | 23.71 | 0.92  | 55.7   | 0.96  | 1.1                 | -3.8    |
| 725     | 56.1     | 23.48 | 0.95  | 55.6   | 0.96  | 0.8                 | -1.5    |
| 750     | 55.9     | 23.25 | 0.97  | 55.5   | 0.96  | 0.6                 | 0.7     |
| 775     | 55.6     | 23.04 | 0.99  | 55.4   | 0.97  | 0.3                 | 2.9     |
| 800     | 55.4     | 22.82 | 1.02  | 55.3   | 0.97  | 0.1                 | 5.0     |
| 825     | 55.2     | 22.65 | 1.04  | 55.2   | 0.98  | -0.1                | 6.3     |
| 838     | 55.1     | 22.56 | 1.05  | 55.2   | 0.98  | -0.3                | 6.9     |
| 850     | 54.9     | 22.47 | 1.06  | 55.2   | 0.99  | -0.4                | 7.5     |
| 875     | 54.7     | 22.34 | 1.09  | 55.1   | 1.02  | -0.7                | 6.7     |
| 900     | 54.5     | 22.21 | 1.11  | 55.0   | 1.05  | -0.9                | 5.9     |
| 925     | 54.3     | 22.08 | 1.14  | 55.0   | 1.06  | -1.3                | 6.9     |
| 950     | 54.1     | 21.95 | 1.16  | 54.9   | 1.08  | -1.6                | 7.9     |
| 975     | 53.8     | 21.86 | 1.19  | 54.9   | 1.09  | -1.9                | 9.1     |
| 1000    | 53.6     | 21.76 | 1.21  | 54.8   | 1.10  | -2.2                | 10.2    |

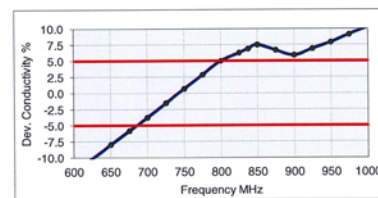
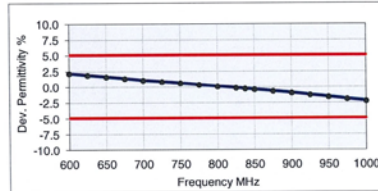


**Figure D-2**

### 750MHz Body Tissue Equivalent Matter

|                                    |                                                                                     |                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------|-----------------------|---------------------------------|
| FCC ID: BCGA2014                   |  | SAR EVALUATION REPORT | Approved by:<br>Quality Manager |
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## APPENDIX E: SAR SYSTEM VALIDATION

Per FCC KDB Publication 865664 D02v01r02, SAR system validation status should be documented to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters has been included.

**Table E-1**  
**SAR System Validation Summary**

| SAR SYSTEM # | FREQ. [MHz] | DATE      | PROBE SN | PROBE TYPE | PROBE CAL. | POINT | COND. | PERM.  | CW VALIDATION |                 |                | MOD. VALIDATION |             |      |
|--------------|-------------|-----------|----------|------------|------------|-------|-------|--------|---------------|-----------------|----------------|-----------------|-------------|------|
|              |             |           |          |            |            |       | (σ)   | (εr)   | SENSITIVITY   | PROBE LINEARITY | PROBE ISOTROPY | MOD. TYPE       | DUTY FACTOR | PAR  |
| AM3          | 750         | 8/29/2018 | 7416     | EX3DV4     | 750        | Body  | 0.960 | 55.009 | PASS          | PASS            | PASS           | N/A             | N/A         | N/A  |
| AM4          | 750         | 9/15/2018 | 7416     | EX3DV4     | 750        | Body  | 0.960 | 54.683 | PASS          | PASS            | PASS           | N/A             | N/A         | N/A  |
| AM5          | 835         | 4/24/2018 | 7490     | EX3DV4     | 835        | Body  | 0.979 | 57.188 | PASS          | PASS            | PASS           | GMSK            | PASS        | N/A  |
| AM8          | 1750        | 6/20/2018 | 3287     | ES3DV3     | 1750       | Body  | 1.437 | 53.450 | PASS          | PASS            | PASS           | N/A             | N/A         | N/A  |
| AM8          | 1900        | 6/20/2018 | 3287     | ES3DV3     | 1900       | Body  | 1.537 | 53.280 | PASS          | PASS            | PASS           | GMSK            | PASS        | N/A  |
| AM1          | 1900        | 7/11/2018 | 3275     | ES3DV3     | 1900       | Body  | 1.565 | 51.519 | PASS          | PASS            | PASS           | GMSK            | PASS        | N/A  |
| AM2          | 2300        | 6/29/2018 | 3022     | ES3DV2     | 2300       | Body  | 1.872 | 51.973 | PASS          | PASS            | PASS           | N/A             | N/A         | N/A  |
| AM1          | 2450        | 7/16/2018 | 3275     | ES3DV3     | 2450       | Body  | 2.004 | 52.717 | PASS          | PASS            | PASS           | OFDM/TDD        | PASS        | PASS |
| AM7          | 2450        | 4/2/2018  | 3329     | ES3DV3     | 2450       | Body  | 2.023 | 50.604 | PASS          | PASS            | PASS           | OFDM/TDD        | PASS        | PASS |
| AM2          | 2450        | 7/2/2018  | 3022     | ES3DV2     | 2450       | Body  | 2.034 | 52.592 | PASS          | PASS            | PASS           | OFDM/TDD        | PASS        | PASS |
| AM2          | 2600        | 7/3/2018  | 3022     | ES3DV2     | 2600       | Body  | 2.177 | 52.355 | PASS          | PASS            | PASS           | TDD             | PASS        | N/A  |
| AM7          | 2600        | 4/3/2018  | 3329     | ES3DV3     | 2600       | Body  | 2.166 | 50.360 | PASS          | PASS            | PASS           | TDD             | PASS        | N/A  |
| AM6          | 5250        | 4/5/2018  | 3837     | EX3DV4     | 5250       | Body  | 5.455 | 47.993 | PASS          | PASS            | PASS           | OFDM            | N/A         | PASS |
| AM6          | 5600        | 4/6/2018  | 3837     | EX3DV4     | 5600       | Body  | 5.963 | 47.270 | PASS          | PASS            | PASS           | OFDM            | N/A         | PASS |
| AM6          | 5750        | 4/6/2018  | 3837     | EX3DV4     | 5750       | Body  | 6.176 | 47.000 | PASS          | PASS            | PASS           | OFDM            | N/A         | PASS |

NOTE: While the probes have been calibrated for both CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01v01r04 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to FCC KDB Publication 865664 D01v01r04.

|                                    |                                                                                     |                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------|-----------------------|---------------------------------|
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## APPENDIX G: POWER REDUCTION VERIFICATION

The device supports manufacturer's proprietary power reduction mechanism called "Detect Mode" for the Main Cellular Antenna. Details of this mechanism can be found in the Operational Description. When the device is being used "on-body" or "held in hand" by the user, the device will detect motion and reduce the power of the main antenna. Per the manufacturer, the mechanism is agnostic to different cellular air interfaces. Detect Mode operation was verified for two test cases, on-body and held in hand, for each supported cellular band. The power reduction verification results are below.

### 1.1 Main Antenna Power Reduction Verification Summary

**Table G-1**  
**Main Antenna Power Reduction Verification**

| Mode/Band        | Maximum Scenario<br>Maximum Allowed Target<br>Power [dBm] | Reduced Scenario<br>Maximum Allowed Target<br>Power [dBm] | Conducted Power [dBm] |             |             |         |
|------------------|-----------------------------------------------------------|-----------------------------------------------------------|-----------------------|-------------|-------------|---------|
|                  |                                                           |                                                           | Maximum               | Test Case 1 | Test Case 2 | Verdict |
| GPRS 850 (2 Tx)  | 28.50 (±0.75)                                             | 26.45 (±0.75)                                             | 29.03                 | 26.33       | 26.48       | PASS    |
| GPRS 1900 (2 Tx) | 28.50 (±0.75)                                             | 19.65 (±0.75)                                             | 27.99                 | 19.27       | 19.31       | PASS    |
| WCDMA B5         | 25.00 (±0.50)                                             | 20.90 (±0.50)                                             | 24.91                 | 20.81       | 20.79       | PASS    |
| WCDMA B4         | 25.00 (±0.50)                                             | 14.50 (±0.50)                                             | 24.89                 | 14.40       | 14.22       | PASS    |
| WCDMA B2         | 25.00 (±0.50)                                             | 14.00 (±0.50)                                             | 24.59                 | 13.77       | 13.84       | PASS    |
| LTE Band 71      | 25.00 (±0.50)                                             | 22.60 (±0.50)                                             | 25.26                 | 22.10       | 22.26       | PASS    |
| LTE Band 12      | 23.25 (±0.50)                                             | 19.20 (±0.50)                                             | 22.86                 | 18.93       | 18.93       | PASS    |
| LTE Band 17      | 23.25 (±0.50)                                             | 19.20 (±0.50)                                             | 22.88                 | 18.91       | 18.90       | PASS    |
| LTE Band 14      | 25.00 (±0.50)                                             | 21.70 (±0.50)                                             | 24.97                 | 21.61       | 21.63       | PASS    |
| LTE Band 13      | 25.00 (±0.50)                                             | 21.70 (±0.50)                                             | 25.10                 | 21.77       | 21.77       | PASS    |
| LTE Band 5       | 23.25 (±0.50)                                             | 20.30 (±0.50)                                             | 23.10                 | 20.71       | 20.64       | PASS    |
| LTE Band 26      | 23.25 (±0.50)                                             | 20.30 (±0.50)                                             | 23.01                 | 20.32       | 20.37       | PASS    |
| LTE Band 4       | 22.00 (±0.50)                                             | 14.50 (±0.50)                                             | 21.96                 | 14.63       | 14.69       | PASS    |
| LTE Band 66      | 22.00 (±0.50)                                             | 14.50 (±0.50)                                             | 21.98                 | 14.46       | 14.50       | PASS    |
| LTE Band 2       | 25.00 (±0.50)                                             | 14.00 (±0.50)                                             | 24.56                 | 14.06       | 13.98       | PASS    |
| LTE Band 25      | 25.00 (±0.50)                                             | 14.00 (±0.50)                                             | 24.93                 | 13.79       | 13.82       | PASS    |
| LTE Band 30      | 21.50 (±0.50)                                             | 12.80 (±0.50)                                             | 21.51                 | 12.65       | 12.59       | PASS    |
| LTE Band 7       | 21.75 (±0.50)                                             | 12.50 (±0.50)                                             | 21.81                 | 12.49       | 12.46       | PASS    |
| LTE Band 41      | 24.75 (±0.50)                                             | 16.80 (±0.50)                                             | 24.49                 | 16.47       | 16.50       | PASS    |

Test Case 1: Device Held in Hand

Test Case 2: Device Resting on Lap

Test Cases represent typical scenarios in which the device power would be reduced. In these scenarios detect mode has been verified to identify typical on-body use-cases including when thin objects, such as a magazine or newspaper, are placed between the body and the device. In the absence of detect mode output, the device defaults to the most conservative power.

|                                    |                                                                                                                                   |                       |                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------|
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## APPENDIX H: DOWNLINK LTE CA RF CONDUCTED POWERS

## 1.1 LTE Downlink Only Carrier Aggregation Test Reduction Methodology

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number of component carriers (CCs) supported by the product implementation. Per April 2018 TCBC Workshop Notes, the following test reduction methodology was applied to determine the combinations required for conducted power measurements.

## LTE DLCA Test Reduction Methodology:

- The supported combinations were arranged by the number of component carriers in columns.
- Any limitations on the PCC or SCC for each combination were identified alongside the combination (e.g. CA\_2A-2A-4A-12A, but B12 can only be configured as a SCC).
- Power measurements were performed for "supersets" (LTE CA combinations with multiple components carriers) and any "subsets" (LTE CA combinations with fewer component carriers) that were not completely covered by the supersets.
- Only subsets that have the exact same components as a superset were excluded for measurement.
- When there were certain restrictions on component carriers that existed in the superset that were not applied for the subset, the subset configuration was additionally evaluated.
- Both inter-band and intra-band downlink carrier aggregation scenarios were considered.
- Downlink CA combinations for SISO and 4x4 Downlink MIMO operations were measured independently, per May 2017 TCBC Workshop notes.

Table 1 – Example of Exclusion Table for SISO Configurations

[illegible]

Table 2 – Example of Exclusion Table for 4x4 Downlink MIMO Configurations

| Index    | 2CC               | Supported Channel Bandwidth (MHz) |               |               |     | Restriction  | Completely Covered by Measurement Superset | Index   | 3CC    | Supported Channel Bandwidth (MHz) |               |               |     | Restriction | Completely Covered by Measurement Superset |
|----------|-------------------|-----------------------------------|---------------|---------------|-----|--------------|--------------------------------------------|---------|--------|-----------------------------------|---------------|---------------|-----|-------------|--------------------------------------------|
|          |                   | CC1                               | CC2           | CC3           | CC4 |              |                                            |         |        | CC1                               | CC2           | CC3           | CC4 |             |                                            |
| ACC #001 | CA [2C]           | 5, 10, 15, 20                     | 5, 10, 15, 20 |               |     |              | ACC #006                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #002 | CA [2A] 3A        | 5, 10, 15, 20                     | 5, 10, 15, 20 |               |     |              | ACC #007                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #003 | CA [2A] [2A]      | 5, 10, 15, 20                     | 5, 10, 15, 20 |               |     | No           | ACC #008                                   | CA [2A] | 2A-13A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #004 | CA [2A] 4A [2]    | 5, 10, 15, 20                     | 5, 10, 15, 20 |               |     | No           | ACC #009                                   | CA [2A] | 2A-13A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #005 | CA [2A] [4A] [2]  | 5, 10, 15, 20                     | 5, 10, 15, 20 |               |     | No           | ACC #010                                   | CA [2A] | 2A-30A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #006 | CA [2A]           | 5, 10, 15, 20                     | 5, 10         |               |     | ACC #015     | ACC #016                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #007 | CA [2A] [2A] [1]  | 5, 10, 15, 20                     | 5, 10, 10     |               |     | ACC #017     | ACC #018                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #008 | CA [2A]           | 5, 10, 15, 20                     | 5, 10         |               |     | ACC #019     | ACC #020                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #009 | CA [2A]           | 5, 10, 15, 20                     | 5, 10         |               |     | B29 SCC Only | ACC #021                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #010 | CA [2A] 28A [2]   | 5, 10, 15, 20                     | 5, 10         |               |     | ACC #015     | ACC #022                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #011 | CA [2A] 30A       | 5, 10, 15, 20                     | 5, 10         |               |     | ACC #017     | ACC #023                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #012 | CA [2A] 66A [2]   | 5, 10, 15, 20                     | 5, 10, 15, 20 |               |     | ACC #019     | ACC #024                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #013 | CA 2A [66A] [2]   | 5, 10, 15, 20                     | 5, 10, 15, 20 |               |     | ACC #017     | ACC #025                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #014 | CA [2A] [66A] [2] | 5, 10, 15, 20                     | 5, 10, 15, 20 |               |     | ACC #019     | ACC #026                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #015 | CA [2A]           | 5, 10, 15, 20                     | 5, 10, 15, 20 |               |     | No           | ACC #027                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #016 | CA 5A [66A]       | 5, 10                             | 5, 10, 15, 20 |               |     | ACC #016     | ACC #028                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #017 | CA 13A [66A] [4]  | 5, 10                             | 5, 10, 15, 20 |               |     | ACC #017     | ACC #029                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #018 | CA 13A [66A]      | 5, 10                             | 5, 10, 15, 20 |               |     | ACC #019     | ACC #030                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #019 | CA 30A [66A]      | 5, 10                             | 5, 10, 15, 20 |               |     | ACC #020     | ACC #031                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #020 | CA 166A           | 5, 10, 15                         | 5, 10, 15     |               |     | ACC #021     | ACC #032                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #021 | CA [66C]          | 5, 10, 15, 20                     | 5, 10, 15, 20 |               |     | ACC #026     | ACC #033                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #022 | CA 66A 66A        | 5, 10, 15, 20                     | 5, 10, 15, 20 |               |     | ACC #028     | ACC #034                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #023 | CA 166A [66A]     | 5, 10, 15, 20                     | 5, 10, 15, 20 |               |     | No           | ACC #035                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #024 | CA [2A]           | 5, 10, 15, 20                     | 5, 10, 15, 20 |               |     | ACC #036     | ACC #036                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #025 | CA 2A [66C]       | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | ACC #036     | ACC #037                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #026 | CA [2A] [66C]     | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | ACC #037     | ACC #038                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #027 | CA [2A]           | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | ACC #038     | ACC #039                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #028 | CA 2A [66A] 66A   | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | ACC #039     | ACC #040                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |
| ACC #029 | CA [2A]           | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | ACC #040     | ACC #041                                   | CA [2A] | 2A-66A | 5, 10, 15, 20                     | 5, 10, 15, 20 | 5, 10, 15, 20 |     | No          |                                            |

Note: [CC] indicates component carrier with 4x4 DL MIMO antenna configuration

|                                    |                                                                                                                                                 |                             |                                 |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------|
| FCC ID: BCGA2014                   |  <b>PCTEST</b><br><small>TECHNOLOGY LABORATORY, INC.</small> | SAR EVALUATION REPORT       | Reviewed by:<br>Quality Manager |
| Test Dates:<br>09/06/18 – 09/21/18 | DUT Type:<br>Tablet Device                                                                                                                      | APPENDIX H:<br>Page 1 of 39 |                                 |

## 1.2 LTE Downlink Only Carrier Aggregation Test Selection and Setup

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number component carriers (CCs) supported by the product implementation. For those configurations required by April 2018 TCBC Workshop Notes, conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

This device supports LAA with downlink carrier aggregation only. It uses carrier aggregation in the downlink to combine LTE in the unlicensed spectrum (i.e. LTE Band 46) with LTE in the licensed band (served as PCC). All uplink communications and acknowledgements on the PCC remain identical to specifications when downlink carrier aggregation is inactive.

Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for carrier aggregation configurations when the average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive.

General PCC and SCC configuration selection procedure

- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section C)3)b)ii) of KDB 941225 D05 V01r02. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.
- To maximize aggregated bandwidth, highest channel bandwidth available for that CA combination was selected for SCC. For inter-band CA, the SCC downlink channels were selected near the middle of their transmission bands. For contiguous intra-band CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521. For non-contiguous intra-band CA, the downlink channel spacing between the component carriers was set to be larger than the nominal channel spacing and provided maximum separation between the component carriers.
- All selected PCC and SCC(s) remained fully within the uplink/downlink transmission band of the respective component carrier.
- When a device supports LTE capabilities with overlapping transmission frequency ranges, the standalone powers from the band with a larger transmission frequency range can be used to select measurement configurations for the band with the fully covered transmission frequency range.

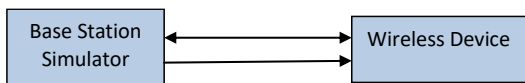


**Figure 1**  
**DL CA Power Measurement Setup**

|                                    |                                                                                                           |                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: BCGA2014                   |  SAR EVALUATION REPORT | Reviewed by:<br>Quality Manager |
| Test Dates:<br>09/06/18 – 09/21/18 | DUT Type:<br>Tablet Device                                                                                | APPENDIX H:<br>Page 2 of 39     |

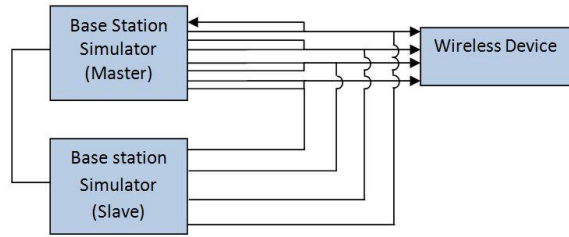


Figure 2  
DL CA with DL 4x4 MIMO Power Measurement Setup

## 1.3 Downlink Carrier Aggregation RF Conducted Powers

### 1.3.1 LTE Band 71 as PCC

Table 1  
Output Powers – Ant 1

| Combination  | PCC      |              |              |                      |      |            |                  |                  |                      | SCC 1    |              |                  |                      | SCC 2    |              |                  |                      | Power                                 |                                   |
|--------------|----------|--------------|--------------|----------------------|------|------------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|
|              | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod. | PCC UL# RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA_2A-2A-71A | LTE B71  | 20           | 133297       | 680.5                | QPSK | 1          | 0                | 68761            | 634.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | 22.58                                 | 22.73                             |
| CA_2A-4A-71A | LTE B71  | 20           | 133297       | 680.5                | QPSK | 1          | 0                | 68761            | 634.5                | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | 22.60                                 | 22.73                             |
| CA_2A-6A-71A | LTE B71  | 20           | 133297       | 680.5                | QPSK | 1          | 0                | 68761            | 634.5                | LTE B2   | 20           | 900              | 1960                 | LTE B66  | 20           | 66786            | 2145                 | 22.60                                 | 22.73                             |
| CA_4A-4A-71A | LTE B71  | 20           | 133297       | 680.5                | QPSK | 1          | 0                | 68761            | 634.5                | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 10           | 2350             | 2150                 | 22.59                                 | 22.73                             |
| CA_6A-6A-71A | LTE B71  | 20           | 133297       | 680.5                | QPSK | 1          | 0                | 68761            | 634.5                | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 67236            | 2190                 | 22.58                                 | 22.73                             |
| CA_66C-71A   | LTE B71  | 20           | 133297       | 680.5                | QPSK | 1          | 0                | 68761            | 634.5                | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 66984            | 2164.8               | 22.73                                 | 22.73                             |

Table 2  
Output Powers – Ant 3

| Combination  | PCC      |              |              |                      |       |            |                  |                  |                      | SCC 1    |              |                  |                      | SCC 2    |              |                  |                      | Power                                 |                                   |
|--------------|----------|--------------|--------------|----------------------|-------|------------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|
|              | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod.  | PCC UL# RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA_2A-2A-71A | LTE B71  | 10           | 133297       | 680.5                | 16QAM | 1          | 0                | 68761            | 634.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | 22.49                                 | 22.60                             |
| CA_2A-4A-71A | LTE B71  | 10           | 133297       | 680.5                | 16QAM | 1          | 0                | 68761            | 634.5                | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | 22.38                                 | 22.60                             |
| CA_2A-6A-71A | LTE B71  | 10           | 133297       | 680.5                | 16QAM | 1          | 0                | 68761            | 634.5                | LTE B2   | 20           | 900              | 1960                 | LTE B66  | 20           | 66786            | 2145                 | 22.51                                 | 22.60                             |
| CA_4A-4A-71A | LTE B71  | 10           | 133297       | 680.5                | 16QAM | 1          | 0                | 68761            | 634.5                | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 10           | 2350             | 2150                 | 22.48                                 | 22.60                             |
| CA_6A-6A-71A | LTE B71  | 10           | 133297       | 680.5                | 16QAM | 1          | 0                | 68761            | 634.5                | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 67236            | 2190                 | 22.54                                 | 22.60                             |
| CA_66C-71A   | LTE B71  | 10           | 133297       | 680.5                | 16QAM | 1          | 0                | 68761            | 634.5                | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 66984            | 2164.8               | 22.50                                 | 22.60                             |

|                                    |                                                                                                           |                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: BCGA2014                   |  SAR EVALUATION REPORT | Reviewed by:<br>Quality Manager |
| Test Dates:<br>09/06/18 – 09/21/18 | DUT Type:<br>Tablet Device                                                                                | APPENDIX H:<br>Page 3 of 39     |

## 1.3.2 LTE Band 12 as PCC

**Table 3**  
**Output Powers – Ant 1**

| Combination        | PCC Band | PCC BW [MHz] | PCC          |                      |       |             |                  | SCC 1            |                      |          |              | SCC 2            |                      |          |              | SCC 3            |                      |          |              | Power            |                      |                                       |                                   |       |
|--------------------|----------|--------------|--------------|----------------------|-------|-------------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|-------|
|                    |          |              | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | Mod.  | PCC UL/F RB | PCC UL RB Offset | PCC [DL] Channel | PCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |
| CA 2A-12A          | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1           | 0                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 19.61                             | 19.70 |
| CA 4A-12A (1)      | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1           | 0                | 5095             | 737.5                | LTE B4   | 20           | 2175             | 2132.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 19.62                             | 19.70 |
| CA 4A-12A (2)      | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1           | 0                | 5095             | 737.5                | LTE B4   | 20           | 2175             | 2132.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 19.62                             | 19.70 |
| CA 12A-66A (1)     | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1           | 0                | 5095             | 737.5                | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 19.66                             | 19.70 |
| CA 12A-66A (2)     | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1           | 0                | 5095             | 737.5                | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 19.66                             | 19.70 |
| CA 2C-12A          | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1           | 0                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 702              | 1940.2               | -        | -            | -                | -                    | -                                     | 19.67                             | 19.70 |
| CA 4A-7A-12A (1)   | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1           | 0                | 5095             | 737.5                | LTE B4   | 20           | 2175             | 2132.5               | LTE B7   | 20           | 3100             | 2655                 | -        | -            | -                | -                    | -                                     | 19.69                             | 19.70 |
| CA 2A-2A-12B       | LTE B12  | 5            | 23035        | 701.5                | 64QAM | 1           | 12               | 5035             | 731.5                | LTE B12  | 10           | 5107             | 738.7                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | 19.56                                 | 19.70                             |       |
| CA 2A-2A-4A-12A    | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1           | 0                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B4   | 20           | 2175             | 2132.5               | 19.66                                 | 19.70                             |       |
| CA 2A-4A-4A-12A    | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1           | 0                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 10           | 2350             | 2150                 | 19.68                                 | 19.70                             |       |
| CA 2A-4A-12B       | LTE B12  | 5            | 23035        | 701.5                | 64QAM | 1           | 12               | 5035             | 731.5                | LTE B12  | 10           | 5107             | 738.7                | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | 19.54                                 | 19.70                             |       |
| CA 2A-2A-12A-30A   | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1           | 0                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B30  | 10           | 9820             | 2355                 | 19.67                                 | 19.70                             |       |
| CA 2A-2A-12A-66A   | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1           | 0                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B66  | 20           | 66786            | 2145                 | 19.69                                 | 19.70                             |       |
| CA 2A-12A-66A-66A  | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1           | 0                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 67236            | 2190                 | 19.69                                 | 19.70                             |       |
| CA 2A-12A-66C      | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1           | 0                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 66984            | 2164.8               | 19.68                                 | 19.70                             |       |
| CA 2A-4A-12A-30A   | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1           | 0                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B30  | 10           | 9820             | 2355                 | 19.67                                 | 19.70                             |       |
| CA 2A-12A-30A-66A  | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1           | 0                | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B30  | 10           | 9820             | 2355                 | LTE B66  | 20           | 66786            | 2145                 | 19.67                                 | 19.70                             |       |
| CA 4A-4A-12B       | LTE B12  | 5            | 23035        | 701.5                | 64QAM | 1           | 12               | 5035             | 731.5                | LTE B12  | 10           | 5107             | 738.7                | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 10           | 2350             | 2150                 | 19.51                                 | 19.70                             |       |
| CA 4A-4A-12A-30A   | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1           | 0                | 5095             | 737.5                | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 10           | 2350             | 2150                 | LTE B30  | 10           | 9820             | 2355                 | 19.68                                 | 19.70                             |       |
| CA 12A-30A-66A-66A | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 1           | 0                | 5095             | 737.5                | LTE B30  | 10           | 9820             | 2355                 | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 67236            | 2190                 | 19.66                                 | 19.70                             |       |

**Table 4**  
**Output Powers – Ant 3**

| Combination        | PCC      |              |              |                      |       |           |                  |                  |                      |          | SCC 1        |                  |                      |          | SCC 2        |                  |                      |          | SCC 3        |                  |                      |                                       | Power                             |  |
|--------------------|----------|--------------|--------------|----------------------|-------|-----------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|--|
|                    | PCC Band | PCC BW [MHz] | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | Mod.  | PCC UL RB | PCC UL RB Offset | PCC [DL] Channel | PCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |  |
| CA 2A-12A          | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 25        | 25               | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 21.66                                 | 21.70                             |  |
| CA 4A-12A (1)      | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 25        | 25               | 5095             | 737.5                | LTE B4   | 20           | 2175             | 2132.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | 21.65                                 | 21.70                             |  |
| CA 4A-12A (2)      | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 25        | 25               | 5095             | 737.5                | LTE B4   | 20           | 2175             | 2132.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | 21.65                                 | 21.70                             |  |
| CA 12A-66A (1)     | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 25        | 25               | 5095             | 737.5                | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 21.66                                 | 21.70                             |  |
| CA 12A-66A (2)     | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 25        | 25               | 5095             | 737.5                | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 21.66                                 | 21.70                             |  |
| CA 2C-12A          | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 25        | 25               | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 702              | 1940.2               | -        | -            | -                | -                    | 21.65                                 | 21.70                             |  |
| CA 4A-7A-12A (1)   | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 25        | 25               | 5095             | 737.5                | LTE B4   | 20           | 2175             | 2132.5               | LTE B7   | 20           | 3100             | 2655                 | -        | -            | -                | -                    | 21.67                                 | 21.70                             |  |
| CA 2A-2A-12B       | LTE B12  | 5            | 23035        | 701.5                | 16QAM | 1         | 12               | 5035             | 731.5                | LTE B12  | 10           | 5107             | 738.7                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | 21.46                                 | 21.70                             |  |
| CA 2A-2A-4A-12A    | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 25        | 25               | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B4   | 20           | 2175             | 2132.5               | 21.69                                 | 21.70                             |  |
| CA 2A-4A-12A       | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 25        | 25               | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 10           | 2350             | 2150                 | 21.70                                 | 21.70                             |  |
| CA 2A-2A-12A-30A   | LTE B12  | 5            | 23035        | 701.5                | 16QAM | 1         | 12               | 5035             | 731.5                | LTE B12  | 10           | 5107             | 738.7                | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | 21.51                                 | 21.70                             |  |
| CA 2A-2A-12A-30A   | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 25        | 25               | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B30  | 10           | 9820             | 2355                 | 21.70                                 | 21.70                             |  |
| CA 2A-2A-12A-66A   | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 25        | 25               | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | LTE B66  | 20           | 66786            | 2145                 | 21.68                                 | 21.70                             |  |
| CA 2A-12A-66A-66A  | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 25        | 25               | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 67236            | 2190                 | 21.66                                 | 21.70                             |  |
| CA 2A-12A-66C      | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 25        | 25               | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 66984            | 2164.8               | 21.70                                 | 21.70                             |  |
| CA 2A-4A-12A-30A   | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 25        | 25               | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B30  | 10           | 9820             | 2355                 | 21.67                                 | 21.70                             |  |
| CA 2A-12A-30A-66A  | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 25        | 25               | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B30  | 10           | 9820             | 2355                 | LTE B66  | 20           | 66786            | 2145                 | 21.70                                 | 21.70                             |  |
| CA 4A-12A-12B      | LTE B12  | 5            | 23035        | 701.5                | 16QAM | 1         | 12               | 5035             | 731.5                | LTE B12  | 10           | 5107             | 738.7                | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 10           | 2350             | 2150                 | 21.48                                 | 21.70                             |  |
| CA 4A-4A-12A-30A   | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 25        | 25               | 5095             | 737.5                | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 10           | 2350             | 2150                 | LTE B30  | 10           | 9820             | 2355                 | 21.69                                 | 21.70                             |  |
| CA 12A-30A-66A-66A | LTE B12  | 10           | 23095        | 707.5                | QPSK  | 25        | 25               | 5095             | 737.5                | LTE B30  | 10           | 9820             | 2355                 | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 67236            | 2190                 | 21.69                                 | 21.70                             |  |

|                                    |                                                                                     |                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------|-----------------------|---------------------------------|
| FCC ID: BCGA2014                   |  | SAR EVALUATION REPORT | Reviewed by:<br>Quality Manager |
| Test Dates:<br>09/06/18 – 09/21/18 | DUT Type:<br>Tablet Device                                                          |                       | APPENDIX H:<br>Page 4 of 39     |

### 1.3.3 LTE Band 17 as PCC

Table 5  
Output Powers – Ant 1

|             | PCC      |              |              |                      |      |            |                  |                  |                      | SCC 1    |              |                  |                      | Power                                 |                                   |
|-------------|----------|--------------|--------------|----------------------|------|------------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|
| Combination | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod. | PCC UL# RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx.Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA 2A-17A   | LTE B17  | 10           | 23790        | 710                  | QPSK | 1          | 0                | 5790             | 740                  | LTE B2   | 10           | 900              | 1960                 | 19.67                                 | 19.70                             |
| CA 4A-17A   | LTE B17  | 10           | 23790        | 710                  | QPSK | 1          | 0                | 5790             | 740                  | LTE B4   | 10           | 2175             | 2132.5               | 19.65                                 | 19.70                             |

Table 6  
Output Powers – Ant 3

|             | PCC      |              |              |                      |      |            |                  |                  |                      | SCC 1    |              |                  |                      | Power                                 |                                   |
|-------------|----------|--------------|--------------|----------------------|------|------------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|
| Combination | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod. | PCC UL# RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx.Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA_2A-17A   | LTE B17  | 10           | 23790        | 710                  | QPSK | 25         | 25               | 5790             | 740                  | LTE B2   | 10           | 900              | 1960                 | 21.69                                 | 21.70                             |
| CA_4A-17A   | LTE B17  | 10           | 23790        | 710                  | QPSK | 25         | 25               | 5790             | 740                  | LTE B4   | 10           | 2175             | 2132.5               | 21.67                                 | 21.70                             |

### 1.3.4 LTE Band 13 as PCC

Table 7  
Output Powers – Ant 1

| Combination       | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC                  |             |                    |                  | Mod. | PCC UL# RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC 1        |                  |                      |          | SCC 2        |                  |                      |          | SCC 3        |                  |                      |          | SCC 4        |                  |                      |        | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
|-------------------|----------|--------------|--------------|----------------------|-------------|--------------------|------------------|------|------------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|--------|---------------------------------------|-----------------------------------|
|                   |          |              |              | PCC (UL) Freq. [MHz] | PCC (UL) RB | PCC (UL) RB Offset | PCC (DL) Channel |      |            |                  |                  |                      |          | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] |        |                                       |                                   |
| CA_2A-4A-13A      | LTE B13  | 10           | 23230        | 782                  | QPSK        | 1                  | 0                | 5230 | 751        | LTE B2           | 20               | 900                  | 1960     | LTE B4       | 20               | 2175                 | 2132.5   | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | -      | 23.58                                 | 23.60                             |
| CA_2A-13A-4A      | LTE B13  | 10           | 23230        | 782                  | QPSK        | 1                  | 0                | 5230 | 751        | LTE B2           | 20               | 900                  | 1960     | LTE B4       | 20               | 50665                | 5537.5   | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | -      | 23.58                                 | 23.60                             |
| CA_4A-4A-13A      | LTE B13  | 10           | 23230        | 782                  | QPSK        | 1                  | 0                | 5230 | 751        | LTE B4           | 20               | 2175                 | 2132.5   | LTE B4       | 20               | 2350                 | 2350     | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | -      | 23.57                                 | 23.60                             |
| CA_13A-4A-66A     | LTE B13  | 10           | 23230        | 782                  | QPSK        | 1                  | 0                | 5230 | 751        | LTE B4           | 20               | 50665                | 5537.5   | LTE B6       | 20               | 66786                | 2145     | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | -      | 23.57                                 | 23.60                             |
| CA_2A-13A-4A-6C   | LTE B13  | 10           | 23230        | 782                  | QPSK        | 1                  | 0                | 5230 | 751        | LTE B2           | 20               | 900                  | 1960     | LTE B4       | 20               | 50665                | 5537.5   | LTE B4       | 20               | 50667                | 5517.7   | -            | -                | -                    | -        | -            | -                | -                    | -      | 23.60                                 | 23.60                             |
| CA_2A-2A-13A-66A  | LTE B13  | 10           | 23230        | 782                  | QPSK        | 1                  | 0                | 5230 | 751        | LTE B2           | 20               | 900                  | 1960     | LTE B2       | 20               | 700                  | 1940     | LTE B6       | 20               | 66786                | 2145     | -            | -                | -                    | -        | -            | -                | -                    | -      | 23.58                                 | 23.60                             |
| CA_2A-13A-66A-66A | LTE B13  | 10           | 23230        | 782                  | QPSK        | 1                  | 0                | 5230 | 751        | LTE B2           | 20               | 900                  | 1960     | LTE B6       | 20               | 66786                | 2145     | LTE B6       | 20               | 67236                | 2190     | -            | -                | -                    | -        | -            | -                | -                    | -      | 23.56                                 | 23.60                             |
| CA_2A-13A-66B     | LTE B13  | 10           | 23230        | 782                  | QPSK        | 1                  | 0                | 5230 | 751        | LTE B2           | 20               | 900                  | 1960     | LTE B6       | 15               | 66876                | 2145     | LTE B6       | 5                | 66876                | 2145.4   | -            | -                | -                    | -        | -            | -                | -                    | -      | 23.58                                 | 23.60                             |
| CA_2A-13A-66C     | LTE B13  | 10           | 23230        | 782                  | QPSK        | 1                  | 0                | 5230 | 751        | LTE B2           | 20               | 900                  | 1960     | LTE B6       | 20               | 66786                | 2145     | LTE B6       | 20               | 66984                | 2144.4   | -            | -                | -                    | -        | -            | -                | -                    | -      | 23.58                                 | 23.60                             |
| CA_13A-66A-66B    | LTE B13  | 10           | 23230        | 782                  | QPSK        | 1                  | 0                | 5230 | 751        | LTE B6           | 20               | 66786                | 2145     | LTE B6       | 15               | 67338                | 2183.2   | LTE B6       | 15               | 67263                | 2192.5   | -            | -                | -                    | -        | -            | -                | -                    | -      | 23.59                                 | 23.60                             |
| CA_13A-66A-66C    | LTE B13  | 10           | 23230        | 782                  | QPSK        | 1                  | 0                | 5230 | 751        | LTE B6           | 20               | 66786                | 2145     | LTE B6       | 20               | 67338                | 2190     | LTE B6       | 20               | 67236                | 2190     | -            | -                | -                    | -        | -            | -                | -                    | -      | 23.57                                 | 23.60                             |
| CA_13A-66C-66A    | LTE B13  | 10           | 23230        | 782                  | QPSK        | 1                  | 0                | 5230 | 751        | LTE B6           | 20               | 50665                | 5537.5   | LTE B6       | 20               | 50667                | 5517.7   | LTE B6       | 20               | 66786                | 2145     | -            | -                | -                    | -        | -            | -                | -                    | -      | 23.59                                 | 23.60                             |
| CA_2A-13A-4A-6D   | LTE B13  | 10           | 23230        | 782                  | QPSK        | 1                  | 0                | 5230 | 751        | LTE B2           | 20               | 900                  | 1960     | LTE B4       | 20               | 50665                | 5537.5   | LTE B4       | 20               | 50667                | 5517.7   | LTE B4       | 20               | 50667                | 5517.7   | LTE B4       | 20               | 50663                | 5557.3 | 23.60                                 | 23.60                             |
| CA_13A-4A-6       | LTE B13  | 10           | 23230        | 782                  | QPSK        | 1                  | 0                | 5230 | 751        | LTE B4           | 20               | 50665                | 5537.5   | LTE B4       | 20               | 50667                | 5517.7   | LTE B4       | 20               | 50663                | 5557.3   | LTE B4       | 20               | 50663                | 5557.3   | LTE B4       | 20               | 50663                | 5497.9 | 23.58                                 | 23.60                             |
| CA_13A-4A-66A     | LTE B13  | 10           | 23230        | 782                  | QPSK        | 1                  | 0                | 5230 | 751        | LTE B4           | 20               | 50665                | 5537.5   | LTE B4       | 20               | 50667                | 5517.7   | LTE B4       | 20               | 50663                | 5557.3   | LTE B6       | 20               | 66786                | 2145     | 23.59        | 23.60            |                      |        |                                       |                                   |

Table 8  
Output Powers – Ant 3

| Combination       | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC                  |      |            |                  | SCC 1            |                      |          |              | SCC 2            |                      |          |              | SCC 3            |                      |          |              | SCC 4            |                      |          |              | Power            |                      |                                       |                                   |       |        |       |       |
|-------------------|----------|--------------|--------------|----------------------|------|------------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|-------|--------|-------|-------|
|                   |          |              |              | PCC (UL) Freq. [MHz] | Mod. | PCC UL# RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |        |       |       |
| CA_2A-4A-13A      | LTE B13  | 10           | 23230        | 782                  | QPSK | 25         | 0                | 5230             | 751                  | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | -                                 | -     | 23.57  | 23.58 |       |
| CA_2A-13A-4A      | LTE B13  | 10           | 23230        | 782                  | QPSK | 25         | 0                | 5230             | 751                  | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 50665            | 5537.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | -                                 | -     | 23.58  | 23.58 |       |
| CA_4A-4A-13A      | LTE B13  | 10           | 23230        | 782                  | QPSK | 25         | 0                | 5230             | 751                  | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 20           | 2350             | 2350                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | -                                 | -     | 23.57  | 23.58 |       |
| CA_13A-4A-66A     | LTE B13  | 10           | 23230        | 782                  | QPSK | 25         | 0                | 5230             | 751                  | LTE B4   | 20           | 50665            | 5537.5               | LTE B6   | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | -                                 | -     | 23.58  | 23.58 |       |
| CA_2A-13A-4A-6C   | LTE B13  | 10           | 23230        | 782                  | QPSK | 25         | 0                | 5230             | 751                  | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 50665            | 5537.5               | LTE B4   | 20           | 50667            | 5517.7               | -        | -            | -                | -                    | -                                     | -                                 | -     | 23.57  | 23.58 |       |
| CA_2A-13A-66A-66A | LTE B13  | 10           | 23230        | 782                  | QPSK | 25         | 0                | 5230             | 751                  | LTE B2   | 20           | 900              | 1960                 | LTE B6   | 20           | 66786            | 2145                 | LTE B6   | 20           | 67236            | 2190                 | -        | -            | -                | -                    | -                                     | -                                 | -     | 23.55  | 23.58 |       |
| CA_2A-13A-66B     | LTE B13  | 10           | 23230        | 782                  | QPSK | 25         | 0                | 5230             | 751                  | LTE B2   | 20           | 900              | 1960                 | LTE B6   | 15           | 66876            | 2145                 | LTE B6   | 5            | 66876            | 2145.4               | -        | -            | -                | -                    | -                                     | -                                 | -     | 23.56  | 23.58 |       |
| CA_2A-13A-66C     | LTE B13  | 10           | 23230        | 782                  | QPSK | 25         | 0                | 5230             | 751                  | LTE B2   | 20           | 900              | 1960                 | LTE B6   | 20           | 66786            | 2145                 | LTE B6   | 20           | 66984            | 2144.4               | -        | -            | -                | -                    | -                                     | -                                 | -     | 23.58  | 23.58 |       |
| CA_13A-66A-66B    | LTE B13  | 10           | 23230        | 782                  | QPSK | 25         | 0                | 5230             | 751                  | LTE B6   | 20           | 66786            | 2145                 | LTE B6   | 15           | 67338            | 2183.2               | LTE B6   | 15           | 67263            | 2192.5               | -        | -            | -                | -                    | -                                     | -                                 | -     | 23.57  | 23.58 |       |
| CA_13A-66A-66C    | LTE B13  | 10           | 23230        | 782                  | QPSK | 25         | 0                | 5230             | 751                  | LTE B6   | 20           | 66786            | 2145                 | LTE B6   | 20           | 67338            | 2190                 | LTE B6   | 20           | 67236            | 2190                 | -        | -            | -                | -                    | -                                     | -                                 | -     | 23.56  | 23.58 |       |
| CA_13A-66C-66A    | LTE B13  | 10           | 23230        | 782                  | QPSK | 25         | 0                | 5230             | 751                  | LTE B6   | 20           | 50665            | 5537.5               | LTE B6   | 20           | 50667            | 5517.7               | LTE B6   | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -                                     | -                                 | -     | 23.57  | 23.58 |       |
| CA_2A-13A-4A-6D   | LTE B13  | 10           | 23230        | 782                  | QPSK | 25         | 0                | 5230             | 751                  | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 50665            | 5537.5               | LTE B4   | 20           | 50667            | 5517.7               | LTE B4   | 20           | 50667            | 5517.7               | LTE B4                                | 20                                | 50663 | 5557.3 | 23.60 | 23.60 |
| CA_13A-4A-6       | LTE B13  | 10           | 23230        | 782                  | QPSK | 25         | 0                | 5230             | 751                  | LTE B4   | 20           | 50665            | 5537.5               | LTE B4   | 20           | 50667            | 5517.7               | LTE B4   | 20           | 50663            | 5557.3               | LTE B4   | 20           | 50663            | 5557.3               | LTE B4                                | 20                                | 50663 | 5497.9 | 23.58 | 23.58 |
| CA_13A-4A-66A     | LTE B13  | 10           | 23230        | 782                  | QPSK | 25         | 0                | 5230             | 751                  | LTE B4   | 20           | 50665            | 5537.5               | LTE B4   | 20           | 50667            | 5517.7               | LTE B4   | 20           | 50663            | 5557.3               | LTE B6   | 20           | 66786            | 2145                 | 23.55                                 | 23.58                             |       |        |       |       |

### 1.3.5 LTE Band 14 as PCC

Table 9  
Output Powers – Ant 1

| Combination        | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC                  |             |                    |                  | Mod. | PCC UL# RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC 1    |              |                  |                      | SCC 2    |              |                  |                      | SCC 3    |              |                  |                      | Power                                 |                                   |
|--------------------|----------|--------------|--------------|----------------------|-------------|--------------------|------------------|------|------------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|
|                    |          |              |              | PCC (UL) Freq. [MHz] | PCC (UL) RB | PCC (UL) RB Offset | PCC (DL) Channel |      |            |                  |                  |                      | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA_2A-2A-14A-66A   | LTE B14  | 10           | 23330        | 793                  | QPSK        | 1                  | 0                | 5330 | 763        | LTE B2           | 20               | 900                  | 1960     | LTE B2       | 20               | 700                  | 1940     | LTE B66      | 20               | 66786                | 2145     | 23.59        | 23.60            |                      |                                       |                                   |
| CA_2A-14A-66A-66A  | LTE B14  | 10           | 23330        | 793                  | QPSK        | 1                  | 0                | 5330 | 763        | LTE B2           | 20               | 900                  | 1960     | LTE B66      | 20               | 66786                | 2145     | LTE B66      | 20               | 67236                | 2190     | 23.60        | 23.60            |                      |                                       |                                   |
| CA_2A-14A-30A-66A  | LTE B14  | 5            | 23330        | 793                  | QPSK        | 1                  | 0                | 5330 | 763        | LTE B2           | 20               | 900                  | 1960     | LTE B30      | 10               | 9820                 | 2355     | LTE B66      | 20               | 66786                | 2145     | 23.60        | 23.60            |                      |                                       |                                   |
| CA_14A-30A-66A-66A | LTE B14  | 5            | 23330        | 793                  | QPSK        | 1                  | 0                | 5330 | 763        | LTE B30          | 10               | 9820                 | 2355     | LTE B66      | 20               | 66786                | 2145     | LTE B66      | 20               | 67236                | 2190     | 23.59        | 23.60            |                      |                                       |                                   |

### 1.3.6 LTE Band 5 as PCC

**Table 11**  
**Output Powers – Ant 1**

| Combination      | PCC Band | PCC          |                         |       |           |                  | SCC 1            |                      |              |                  |                      | SCC 2        |                  |                      |              |                  | SCC 3                |              |                  |                      |              | SCC 4            |                      |                                       |                                   |  | Power |  |
|------------------|----------|--------------|-------------------------|-------|-----------|------------------|------------------|----------------------|--------------|------------------|----------------------|--------------|------------------|----------------------|--------------|------------------|----------------------|--------------|------------------|----------------------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|--|-------|--|
|                  |          | PCC BW [MHz] | PCC (UL) Ch Freq. [MHz] | Mod.  | PCC UL RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Total Power With CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |  |       |  |
| CA SA-7A         | LTE B3   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B7           | 20                   | 3100         | 2655             |                      |              |                  |                      |              |                  |                      |              |                  |                      | 20.77                                 | 20.80                             |  |       |  |
| CA SA-26A        | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B25          | 20                   | 8360         | 1962.5           |                      |              |                  |                      |              |                  |                      |              |                  |                      | 20.77                                 | 20.80                             |  |       |  |
| CA SA-46A        | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B41          | 20                   | 4000         | 2393             |                      |              |                  |                      |              |                  |                      |              |                  |                      | 20.78                                 | 20.80                             |  |       |  |
| CA SA-56A(1)     | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B46          | 20                   | 50665        | 5537.5           |                      |              |                  |                      |              |                  |                      |              |                  |                      | 20.79                                 | 20.80                             |  |       |  |
| CA SA-56A        | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B7           | 20                   |              |                  | 700                  | 1960.2       |                  |                      |              |                  |                      |              |                  |                      | 20.77                                 | 20.80                             |  |       |  |
| CA SA-56A(1)     | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B46          | 20                   |              |                  | 700                  | 50667        | 5537.7           |                      |              |                  |                      |              |                  |                      | 20.77                                 | 20.80                             |  |       |  |
| CA ZA-24A-3A     | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B2               | 20           | 700              | 1940                 | LTE B4       | 20               | 2135                 | 2132.5       |                  |                      | 20.74                                 | 20.80                             |  |       |  |
| CA ZA-24A-4A     | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 2135             | 2135                 | LTE B4       | 20               | 2135                 | 2130         |                  |                      | 20.74                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A     | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B2               | 20           | 700              | 1940                 | LTE B4       | 20               | 2135                 | 2130         |                  |                      | 20.74                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-30A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B30              | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B66              | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               | 20           | 68786            | 2145                 | LTE B46      | 20               | 68786                | 2145         | 2135             | 2130                 | 20.78                                 | 20.80                             |  |       |  |
| CA ZA-24A-5A-66A | LTE B5   | 20           | 2025                    | 836.5 | QPSK      | 25               | 0                | 2525                 | 881.5        | LTE B2           | 20                   | 900          | 1960             | LTE B4               |              |                  |                      |              |                  |                      |              |                  |                      |                                       |                                   |  |       |  |

**Table 12**  
**Output Powers – Ant 3**

| Combination          | PCC Band | PCC BW [MHz] | PCC (UL) CH | PCC           |           |                  |                      | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with Enabled (dBm) | LTE Single Carrier Power (dBm) |
|----------------------|----------|--------------|-------------|---------------|-----------|------------------|----------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------|--------------------------------|
|                      |          |              |             | PCC (UL) Mod. | PCC UL RB | PCC UL RB Offset | PCC (DL) Freq. [MHz] |                  |                      |          |              |                  |                      |          |              |                  |                      |          |              |                  |                      |          |              |                  |                      |          |              |                  |                      |                                 |                                |
| CA-SA-7A             | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B7    | 20           | 3100             | 2655                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | 21.40                           | 21.40                          |
| CA-SA-2A             | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B25   | 20           | 8365             | 10610                | -        | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | 21.17                           | 21.40                          |
| CA-SA-4A             | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B21   | 20           | 6930             | 7293                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | 21.17                           | 21.40                          |
| CA-SA-6A(1)          | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B60   | 20           | 50665            | 5537.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | 21.30                           | 21.40                          |
| CA-SA-3A             | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B2    | 20           | 900              | 1960.2               | -        | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | 21.38                           | 21.40                          |
| CA-SA-4G(1)          | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B6    | 20           | 50665            | 5537.7               | LT B46   | 20           | 50667            | 5517.7               | LT B46   | 20           | 50667            | 5517.7               | LT B46   | 20           | 50667            | 5517.7               | LT B46   | 20           | 50667            | 5517.7               | 21.38                           | 21.40                          |
| CA-ZA-2A-5A-5A       | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B2    | 20           | 900              | 1960                 | LT B2    | 20           | 700              | 1940                 | LT B4    | 20           | 2175             | 2125.2               | -        | -            | -                | -                    | -        | -            | -                | -                    | 21.26                           | 21.40                          |
| CA-20A-4A-5A         | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B20   | 20           | 1960             | 1974                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | 21.25                           | 21.40                          |
| CA-2A-3A             | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B25   | 20           | 8365             | 874.3                | LT B4    | 20           | 2175             | 2125.2               | LT B4    | 20           | 2150             | 2150                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 21.25                           | 21.40                          |
| CA-2A-5A-3A          | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B2    | 20           | 900              | 1960                 | LT B2    | 20           | 700              | 1940                 | LT B30   | 20           | 8820             | 2350                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 21.18                           | 21.40                          |
| CA-2A-5A-6A          | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B2    | 20           | 900              | 1960                 | LT B2    | 20           | 700              | 1940                 | LT B36   | 20           | 8720             | 2165                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 21.25                           | 21.40                          |
| CA-2A-5A-6A(1)       | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B2    | 20           | 900              | 1960                 | LT B66   | 20           | 66786            | 2145                 | LT B66   | 20           | 67326            | 2145                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 21.22                           | 21.40                          |
| CA-2A-5A-3A-6A       | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B2    | 20           | 900              | 1960                 | LT B4    | 20           | 2175             | 2125.2               | LT B30   | 20           | 8820             | 2350                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 21.21                           | 21.40                          |
| CA-2A-5A-3A-6A(1)    | LT B5    | 1            | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B6    | 20           | 50665            | 5537.5               | LT B46   | 20           | 50667            | 5517.7               | LT B46   | 20           | 50667            | 5517.7               | LT B46   | 20           | 50667            | 5517.7               | LT B46   | 20           | 50667            | 5517.7               | 21.38                           | 21.40                          |
| CA-4A-4B             | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B5    | 5            | 2453             | 874.3                | LT B4    | 20           | 2175             | 2125.2               | LT B4    | 20           | 2150             | 2150                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 21.21                           | 21.40                          |
| CA-4A-5A-3A          | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B6    | 20           | 50665            | 5537.5               | LT B46   | 20           | 50667            | 5517.7               | LT B46   | 20           | 50667            | 5517.7               | LT B46   | 20           | 50667            | 5517.7               | LT B46   | 20           | 50667            | 5517.7               | 21.38                           | 21.40                          |
| CA-SA-4G(1)          | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B6    | 20           | 50665            | 5537.7               | LT B46   | 20           | 50667            | 5517.7               | LT B46   | 20           | 50667            | 5517.7               | LT B46   | 20           | 50667            | 5517.7               | LT B46   | 20           | 50667            | 5517.7               | 21.38                           | 21.40                          |
| CA-SA-6A(1)          | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B66   | 20           | 66786            | 2145                 | LT B66   | 20           | 66988            | 2164.8               | LT B66   | 20           | 66988            | 2165.2               | -        | -            | -                | -                    | -        | -            | -                | -                    | 21.21                           | 21.40                          |
| CA-SA-6A(1)-6A       | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B66   | 20           | 66786            | 2145                 | LT B66   | 20           | 67326            | 2145                 | LT B66   | 20           | 67326            | 2145                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 21.19                           | 21.40                          |
| CA-SA-6A(1)-6A(1)    | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B66   | 20           | 66786            | 2145                 | LT B66   | 20           | 66988            | 2170.2               | LT B66   | 20           | 67326            | 2140                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 21.21                           | 21.40                          |
| CA-SA-6A(1)-6A(1)-6A | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B60   | 20           | 50665            | 5537.5               | LT B46   | 20           | 50667            | 5517.7               | LT B46   | 20           | 50667            | 5517.7               | LT B46   | 20           | 50667            | 5517.7               | LT B46   | 20           | 50667            | 5517.7               | 21.38                           | 21.40                          |
| CA-ZA-2A-5A-6B       | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B2    | 20           | 900              | 1960                 | LT B2    | 20           | 700              | 1940                 | LT B66   | 15           | 66878            | 2145                 | LT B66   | 5            | 66878            | 2154.1               | -        | -            | -                | -                    | 21.19                           | 21.40                          |
| CA-ZA-5A-6C          | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B2    | 20           | 900              | 1960                 | LT B2    | 20           | 700              | 1940                 | LT B66   | 20           | 66786            | 2145                 | LT B66   | 20           | 66786            | 2145                 | -        | -            | -                | -                    | 21.31                           | 21.40                          |
| CA-2B-6B(1)-6A       | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B25   | 20           | 8365             | 874.3                | LT B4    | 20           | 2175             | 2125.2               | LT B4    | 20           | 2150             | 2150                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 21.25                           | 21.40                          |
| CA-2B-6B(1)-6C       | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B5    | 5            | 2453             | 874.3                | LT B2    | 20           | 900              | 1960                 | LT B66   | 20           | 66786            | 2145                 | LT B66   | 20           | 66988            | 2164.8               | -        | -            | -                | -                    | 21.29                           | 21.40                          |
| CA-SA-3B-6B          | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B5    | 5            | 2453             | 874.3                | LT B2    | 20           | 900              | 1960                 | LT B30   | 20           | 8820             | 2350                 | LT B66   | 20           | 66786            | 2145                 | -        | -            | -                | -                    | 21.27                           | 21.40                          |
| CA-SA-3B-6A-6B       | LT B5    | 10           | 20525       | 836.5         | HQDM      | 1                | 49                   | 2525             | 881.5                | LT B5    | 5            | 2453             | 874.3                | LT B2    | 20           | 900              | 1960                 | LT B30   | 20           | 8820             | 2350                 | LT B66   | 20           | 66988            | 2164.8               | -        | -            | -                | -                    | 21.27                           | 21.40                          |

### 1.3.7 LTE Band 26 as PCC

**Table 13**  
**Output Powers – Ant 1**

|                | PCC      |              |              |                      |       |            |                  |                  |                      | SCC 1    |              |                  |                      | SCC 2    |              |                  | Power                |                                       |                                   |
|----------------|----------|--------------|--------------|----------------------|-------|------------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|
| Combination    | PCC Band | PCC BW [MHz] | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | Mod.  | PCC UL# RB | PCC UL RB Offset | PCC [DL] Channel | PCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA_25A-26A     | LTE B26  | 10           | 26740        | 819                  | QPSK  | 1          | 0                | 8740             | 864                  | LTE B25  | 20           | 8365             | 1962.5               | -        | -            | -                | -                    | 20.60                                 | 20.61                             |
| CA_25A-25A-26A | LTE B26  | 3            | 26705        | 815.5                | 16QAM | 1          | 0                | 8705             | 860.5                | LTE B25  | 20           | 8365             | 1962.5               | LTE B25  | 20           | 8590             | 1985                 | 20.48                                 | 20.60                             |

**Table 14**  
**Output Powers – Ant 3**

|                | PCC      |              |              |                      |       |            |                  |                  |                      | SCC 1    |              |                  |                      | SCC 2    |              |                  |                      | Power                                 |                                   |
|----------------|----------|--------------|--------------|----------------------|-------|------------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|
| Combination    | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod.  | PCC UL# RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DL CA Enabled (dbm) | LTE Single Carrier Tx Power (dbm) |
| CA_25A-26A     | LTE B26  | 1.4          | 26697        | 814.7                | 64QAM | 6          | 0                | 8697             | 859.7                | LTE B25  | 20           | 8365             | 1962.5               | -        | -            | -                | -                    | 21.38                                 | 21.40                             |
| CA_25A-25A-26A | LTE B26  | 3            | 26705        | 815.5                | QPSK  | 1          | 7                | 8705             | 860.5                | LTE B25  | 20           | 8365             | 1962.5               | LTE B25  | 20           | 8590             | 1985                 | 21.35                                 | 21.38                             |

|                                    |                                                                                                                                                               |                             |                                 |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------|
| FCC ID: BCGA2014                   |  <b>PCTEST</b><br><small>PROFUNDUM COMMUNICATIONS TECHNOLOGY, INC.</small> | SAR EVALUATION REPORT       | Reviewed by:<br>Quality Manager |
| Test Dates:<br>09/06/18 – 09/21/18 | DUT Type:<br>Tablet Device                                                                                                                                    | APPENDIX H:<br>Page 6 of 39 |                                 |

## 1.3.8 LTE Band 4 as PCC

**Table 15**  
**Output Powers – Ant 2A**

| Combination      | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC    |           |                  | Mod. | PCC UL RB | PCC UL RB Offset | PCC (DL) Channel | SCC 1            |                      |                  | SCC Band | SCC 2                |                  |                      | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC 3            |                      |                  | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC 4                |                  |                      | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DC CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |       |
|------------------|----------|--------------|--------------|--------|-----------|------------------|------|-----------|------------------|------------------|------------------|----------------------|------------------|----------|----------------------|------------------|----------------------|------------------|----------------------|----------|------------------|----------------------|------------------|------------------|----------------------|----------|----------------------|------------------|----------------------|------------------|----------------------|---------------------------------------|-----------------------------------|-------|-------|
|                  |          |              |              | Mod.   | PCC UL RB | PCC UL RB Offset |      |           |                  |                  | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC (DL) Channel |          | SCC (DL) Freq. [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] |                  |                      |          | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC (DL) Channel |                  |                      |          | SCC (DL) Freq. [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] |                  |                      |                                       |                                   |       |       |
| CA 2A-4A         | LTE-B4   | 15           | 20025        | 1717.5 | QPSK      | 75               | 0    | 20025     | 2117.5           | LTE-B2           | 20               | 900                  | 1960             | -        | -                    | -                | -                    | -                | -                    | -        | -                | -                    | -                | -                | -                    | -        | -                    | -                | -                    | -                | -                    | 14.97                                 | 15.00                             |       |       |
| CA 4A-12A(1)     | LTE-B4   | 15           | 20025        | 1717.5 | QPSK      | 75               | 0    | 20025     | 2117.5           | LTE-B12          | 10               | 5095                 | 737.5            | -        | -                    | -                | -                    | -                | -                    | -        | -                | -                    | -                | -                | -                    | -        | -                    | -                | -                    | -                | -                    | 14.97                                 | 15.00                             |       |       |
| CA 4A-12A(2)     | LTE-B4   | 15           | 20025        | 1717.5 | QPSK      | 75               | 0    | 20025     | 2117.5           | LTE-B12          | 10               | 5095                 | 737.5            | -        | -                    | -                | -                    | -                | -                    | -        | -                | -                    | -                | -                | -                    | -        | -                    | -                | -                    | -                | -                    | 14.97                                 | 15.00                             |       |       |
| CA 4A-17A        | LTE-B4   | 10           | 20000        | 1715   | QPSK      | 1                | 49   | 20000     | 2115             | LTE-B17          | 10               | 5790                 | 740              | -        | -                    | -                | -                    | -                | -                    | -        | -                | -                    | -                | -                | -                    | -        | -                    | -                | -                    | -                | -                    | 15.00                                 | 15.00                             |       |       |
| CA 4A-29A        | LTE-B4   | 10           | 20000        | 1715   | QPSK      | 1                | 49   | 20000     | 2115             | LTE-B29          | 10               | 9715                 | 722.5            | -        | -                    | -                | -                    | -                | -                    | -        | -                | -                    | -                | -                | -                    | -        | -                    | -                | -                    | -                | -                    | 15.00                                 | 15.00                             |       |       |
| CA 2A-4A-13A     | LTE-B4   | 15           | 20025        | 1717.5 | QPSK      | 75               | 0    | 20025     | 2117.5           | LTE-B2           | 20               | 900                  | 1960             | LTE-B13  | 10                   | 5230             | 751                  | -                | -                    | -        | -                | -                    | -                | -                | -                    | -        | -                    | -                | -                    | -                | -                    | 14.99                                 | 15.00                             |       |       |
| CA 2A-4A-71A     | LTE-B4   | 15           | 20025        | 1717.5 | QPSK      | 75               | 0    | 20025     | 2117.5           | LTE-B2           | 20               | 900                  | 1960             | LTE-B71  | 20                   | 68761            | 634.5                | -                | -                    | -        | -                | -                    | -                | -                | -                    | -        | -                    | -                | -                    | -                | -                    | 15.00                                 | 15.00                             |       |       |
| CA 4A-7A-7A      | LTE-B4   | 15           | 20025        | 1717.5 | QPSK      | 75               | 0    | 20025     | 2117.5           | LTE-B4           | 20               | 2300                 | 2145             | LTE-B7   | 20                   | 3100             | 2655                 | -                | -                    | -        | -                | -                    | -                | -                | -                    | -        | -                    | -                | -                    | -                | -                    | 14.98                                 | 15.00                             |       |       |
| CA 4A-4A-13A     | LTE-B4   | 15           | 20025        | 1717.5 | QPSK      | 75               | 0    | 20025     | 2117.5           | LTE-B4           | 20               | 2300                 | 2145             | LTE-B13  | 10                   | 5230             | 751                  | -                | -                    | -        | -                | -                    | -                | -                | -                    | -        | -                    | -                | -                    | -                | -                    | 14.97                                 | 15.00                             |       |       |
| CA 4A-4A-29A     | LTE-B4   | 15           | 20025        | 1717.5 | QPSK      | 75               | 0    | 20025     | 2117.5           | LTE-B4           | 20               | 2300                 | 2145             | LTE-B29  | 10                   | 9715             | 722.5                | -                | -                    | -        | -                | -                    | -                | -                | -                    | -        | -                    | -                | -                    | -                | -                    | 14.98                                 | 15.00                             |       |       |
| CA 4A-4A-66A     | LTE-B4   | 15           | 20025        | 1717.5 | QPSK      | 75               | 0    | 20025     | 2117.5           | LTE-B4           | 20               | 50665                | 5337.5           | LTE-B46  | 20                   | 47900            | 5180                 | -                | -                    | -        | -                | -                    | -                | -                | -                    | -        | -                    | -                | -                    | -                | -                    | 14.98                                 | 15.00                             |       |       |
| CA 4A-4A-71A     | LTE-B4   | 15           | 20025        | 1717.5 | QPSK      | 75               | 0    | 20025     | 2117.5           | LTE-B4           | 20               | 2300                 | 2145             | LTE-B71  | 20                   | 68761            | 634.5                | -                | -                    | -        | -                | -                    | -                | -                | -                    | -        | -                    | -                | -                    | -                | -                    | 14.99                                 | 15.00                             |       |       |
| CA 4A-7A-12A(1)  | LTE-B4   | 15           | 20025        | 1717.5 | QPSK      | 75               | 0    | 20025     | 2117.5           | LTE-B2           | 20               | 900                  | 1960             | LTE-B12  | 10                   | 5095             | 737.5                | -                | -                    | -        | -                | -                    | -                | -                | -                    | -        | -                    | -                | -                    | -                | -                    | 14.98                                 | 15.00                             |       |       |
| CA 2A-2A-4A-4A   | LTE-B4   | 15           | 20025        | 1717.5 | QPSK      | 75               | 0    | 20025     | 2117.5           | LTE-B4           | 20               | 2300                 | 2145             | LTE-B2   | 20                   | 900              | 1960                 | LTE-B2           | 20                   | 700      | 1940             | LTE-B5               | 10               | 2525             | 881.5                | -        | -                    | -                | -                    | -                | -                    | -                                     | 14.98                             | 15.00 |       |
| CA 2A-2A-4A-5A   | LTE-B4   | 15           | 20025        | 1717.5 | QPSK      | 75               | 0    | 20025     | 2117.5           | LTE-B4           | 20               | 2300                 | 2145             | LTE-B2   | 20                   | 900              | 1960                 | LTE-B5           | 10                   | 2525     | 881.5            | -                    | -                | -                | -                    | -        | -                    | -                | -                    | -                | -                    | -                                     | 15.00                             | 15.00 |       |
| CA 2A-4A-5A      | LTE-B4   | 15           | 20025        | 1717.5 | QPSK      | 75               | 0    | 20025     | 2117.5           | LTE-B4           | 20               | 900                  | 1960             | LTE-B5   | 10                   | 2525             | 881.5                | LTE-B5           | 10                   | 2525     | 881.5            | -                    | -                | -                | -                    | -        | -                    | -                | -                    | -                | -                    | -                                     | 14.98                             | 15.00 |       |
| CA 2A-4A-12A-12A | LTE-B4   | 15           | 20025        | 1717.5 | QPSK      | 75               | 0    | 20025     | 2117.5           | LTE-B4           | 20               | 900                  | 1960             | LTE-B2   | 20                   | 700              | 1940                 | LTE-B12          | 10                   | 5095     | 737.5            | -                    | -                | -                | -                    | -        | -                    | -                | -                    | -                | -                    | -                                     | -                                 | 14.98 | 15.00 |
| CA 2A-4A-12A     | LTE-B4   | 15           | 20025        | 1717.5 | QPSK      | 75               | 0    | 20025     | 2117.5           | LTE-B4           | 20               | 2300                 | 2145             | LTE-B2   | 20                   | 900              | 1960                 | LTE-B12          | 10                   | 5095     | 737.5            | -                    | -                | -                | -                    | -        | -                    | -                | -                    | -                | -                    | -                                     | -                                 | 15.00 | 15.00 |
| CA 2A-4A-12A-30A | LTE-B4   | 15           | 20025        | 1717.5 | QPSK      | 75               | 0    | 20025     | 2117.5           | LTE-B2           | 20               | 900                  | 1960             | LTE-B29  | 10                   | 9715             | 722.5                | LTE-B30          | 10                   | 9820     | 2355             | -                    | -                | -                | -                    | -        | -                    | -                | -                    | -                | -                    | -                                     | -                                 | 14.99 | 15.00 |
| CA 2A-4A-12A-30A | LTE-B4   | 15           | 20025        | 1717.5 | QPSK      | 75               | 0    | 20025     | 2117.5           | LTE-B4           | 20               | 2300                 | 2145             | LTE-B29  | 10                   | 9715             | 722.5                | LTE-B30          | 10                   | 9820     | 2355             | -                    | -                | -                | -                    | -        | -                    | -                | -                    | -                | -                    | -                                     | -                                 | 14.98 | 15.00 |
| CA 4A-4A-5A      | LTE-B4   | 15           | 20025        | 1717.5 | QPSK      | 75               | 0    | 20025     | 2117.5           | LTE-B4           | 20               | 2300                 | 2145             | LTE-B5   | 10                   | 2525             | 881.5                | LTE-B5           | 10                   | 2525     | 881.5            | -                    | -                | -                | -                    | -        | -                    | -                | -                    | -                | -                    | -                                     | -                                 | 14.97 | 15.00 |
| CA 4A-4A-13A     | LTE-B4   | 15           | 20025        | 1717.5 | QPSK      | 75               | 0    | 20025     | 2117.5           | LTE-B4           | 20               | 2300                 | 2145             | LTE-B13  | 10                   | 5230             | 751                  | -                | -                    | -        | -                | -                    | -                | -                | -                    | -        | -                    | -                | -                    | -                | -                    | -                                     | 14.98                             | 15.00 |       |
| CA 4A-4A-46C     | LTE-B4   | 15           | 20025        | 1717.5 | QPSK      | 75               | 0    | 20025     | 2117.5           | LTE-B4           | 20               | 50665                | 5337.5           | LTE-B46  | 20                   | 50467            | 5317.7               | LTE-B46          | 20                   | 53440    | 5825             | -                    | -                | -                | -                    | -        | -                    | -                | -                    | -                | -                    | -                                     | 14.97                             | 14.99 |       |
| CA 4A-4A-5A-30A  | LTE-B4   | 15           | 20025        | 1717.5 | QPSK      | 75               | 0    | 20025     | 2117.5           | LTE-B4           | 20               | 2300                 | 2145             | LTE-B5   | 10                   | 2525             | 881.5                | LTE-B30          | 10                   | 9820     | 2355             | -                    | -                | -                | -                    | -        | -                    | -                | -                    | -                | -                    | -                                     | -                                 | 14.96 | 15.00 |
| CA 4A-4A-12A-30A | LTE-B4   | 15           | 20025        | 1717.5 | QPSK      | 75               | 0    | 20025     | 2117.5           | LTE-B4           | 20               | 2300                 | 2145             | LTE-B12  | 10                   | 5095             | 737.5                | LTE-B30          | 10                   | 9820     | 2355             | -                    | -                | -                | -                    | -        | -                    | -                | -                    | -                | -                    | -                                     | -                                 | 14.97 | 15.00 |
| CA 4A-4A-46D     | LTE-B4   | 15           | 20025        | 1717.5 | QPSK      | 75               | 0    | 2025      | 2117.5           | LTE-B46          | 20               | 50665                | 5337.5           | LTE-B46  | 20                   | 53444            | 5765.4               | LTE-B46          | 20                   | 53440    | 5825             | -                    | -                | -                | -                    | -        | -                    | -                | -                    | -                | -                    | -                                     | 14.93                             | 15.00 |       |

**Table 16**  
**Output Powers – Ant 2B**

| Combination      | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC    |           |                  | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC 1       |                    |                      | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC 2       |                    |                      | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC 3       |                    |                      | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | Power                                 |                                   |       |       |       |
|------------------|----------|--------------|--------------|--------|-----------|------------------|------------------|----------------------|-------------|--------------------|----------------------|----------|--------------|------------------|----------------------|-------------|--------------------|----------------------|----------|--------------|------------------|----------------------|-------------|--------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|-------|-------|-------|
|                  |          |              |              | Mod.   | PCC UL RB | PCC UL RB Offset |                  |                      | SCC 1 UL RB | SCC 1 UL RB Offset | SCC 1 DL Freq. [MHz] |          |              |                  |                      | SCC 2 UL RB | SCC 2 UL RB Offset | SCC 2 DL Freq. [MHz] |          |              |                  |                      | SCC 3 UL RB | SCC 3 UL RB Offset | SCC 3 DL Freq. [MHz] |          |              |                  |                      | LTE Tx Power with DC CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |       |       |
| CA 2A-4A         | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B2             | 20                   | 900      | 1960         | -                | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | 14.10                             | 14.35 |       |       |
| CA 4A-12A(1)     | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B12            | 10                   | 5095     | 737.5        | -                | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | 14.13                             | 14.35 |       |       |
| CA 4A-12A(2)     | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B12            | 10                   | 5095     | 737.5        | -                | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | 14.27                             | 14.35 |       |       |
| CA 4A-17A        | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 7                | 2385                 | 2112.5      | LTE-B17            | 10                   | 5790     | 740          | -                | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | 14.34                             | 14.35 |       |       |
| CA 4A-29A        | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B29            | 10                   | 9790     | 740          | -                | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | 14.34                             | 14.35 |       |       |
| CA 4A-29A-29A    | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B29            | 10                   | 9790     | 740          | -                | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | 14.34                             | 14.35 |       |       |
| CA 2A-4A-13A     | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B2             | 20                   | 900      | 1960         | LTE-B13          | 10                   | 5230        | 751                | -                    | -        | -            | -                | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | 14.25                             | 14.35 |       |       |
| CA 2A-4A-71A     | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B2             | 20                   | 900      | 1960         | LTE-B71          | 20                   | 68761       | 634.5              | -                    | -        | -            | -                | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | 14.17                             | 14.35 |       |       |
| CA 4A-6A-7A(1)   | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B4             | 20                   | 2300     | 2145         | LTE-B7           | 20                   | 3100        | 2655               | -                    | -        | -            | -                | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | -                                 | 14.92 | 14.35 |       |
| CA 4A-7A-7A      | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B7             | 20                   | 3100     | 2655         | LTE-B7           | 20                   | 2850        | 2630               | -                    | -        | -            | -                | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | -                                 | 14.30 | 14.35 |       |
| CA 4A-4A-13A     | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B4             | 20                   | 2300     | 2145         | LTE-B13          | 10                   | 5230        | 751                | -                    | -        | -            | -                | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | -                                 | 14.35 | 14.35 |       |
| CA 4A-4A-29A     | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B4             | 20                   | 2300     | 2145         | LTE-B29          | 10                   | 9715        | 722.5              | -                    | -        | -            | -                | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | -                                 | 14.26 | 14.35 |       |
| CA 4A-4A-66A     | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B4             | 20                   | 50665    | 5337.5       | LTE-B46          | 20                   | 47900       | 5180               | -                    | -        | -            | -                | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | -                                 | 14.26 | 14.35 |       |
| CA 4A-4A-71A     | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B4             | 20                   | 2300     | 2145         | LTE-B71          | 20                   | 68761       | 634.5              | -                    | -        | -            | -                | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | -                                 | 14.26 | 14.35 |       |
| CA 4A-7A-13A     | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B7             | 20                   | 3100     | 2655         | LTE-B13          | 10                   | 5230        | 751                | -                    | -        | -            | -                | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | -                                 | 14.30 | 14.35 |       |
| CA 2A-4A-5A-4A   | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B4             | 20                   | 2300     | 2145         | LTE-B2           | 20                   | 900         | 1960               | LTE-B5               | 20       | 700          | 1840             | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | -                                 | -     | 14.18 | 14.35 |
| CA 2A-4A-5A      | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B2             | 20                   | 900      | 1960         | LTE-B2           | 20                   | 900         | 1960               | LTE-B5               | 20       | 2525         | 881.5            | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | -                                 | -     | 14.18 | 14.35 |
| CA 2A-4A-13A     | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B4             | 20                   | 900      | 1960         | LTE-B5           | 20                   | 2525        | 881.5              | LTE-B5               | 20       | 2463         | 874.5            | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | -                                 | -     | 14.10 | 14.35 |
| CA 2A-4A-12A     | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B4             | 20                   | 900      | 1960         | LTE-B12          | 10                   | 5230        | 751                | -                    | -        | -            | -                | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | -                                 | 14.20 | 14.35 |       |
| CA 2A-4A-12A     | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B4             | 20                   | 2300     | 2145         | LTE-B2           | 20                   | 900         | 1960               | LTE-B12              | 10       | 5095         | 737.5            | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | -                                 | -     | 14.15 | 14.35 |
| CA 2A-4A-12A     | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B4             | 20                   | 900      | 1960         | LTE-B12          | 5                    | 5095        | 737.5              | LTE-B12              | 5        | 5047         | 722.7            | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | -                                 | -     | 14.14 | 14.35 |
| CA 2A-4A-12A-3A  | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B4             | 20                   | 900      | 1960         | LTE-B12          | 5                    | 5095        | 737.5              | LTE-B30              | 5        | 2525         | 878.5            | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | -                                 | -     | 14.25 | 14.35 |
| CA 2A-4A-12A-3A  | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B4             | 20                   | 900      | 1960         | LTE-B12          | 10                   | 5095        | 737.5              | LTE-B30              | 10       | 5020         | 735              | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | -                                 | -     | 14.18 | 14.35 |
| CA 2A-4A-20A-20A | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B4             | 20                   | 900      | 1960         | LTE-B20          | 10                   | 5095        | 737.5              | LTE-B20              | 10       | 5020         | 735              | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | -                                 | -     | 14.18 | 14.35 |
| CA 4A-4A-5B      | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B4             | 20                   | 2300     | 2145         | LTE-B5           | 20                   | 2525        | 881.5              | LTE-B5               | 20       | 2463         | 874.5            | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | -                                 | -     | 14.18 | 14.35 |
| CA 4A-4A-5B      | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B4             | 20                   | 2300     | 2145         | LTE-B12          | 5                    | 5095        | 737.5              | LTE-B12              | 5        | 5047         | 722.7            | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | -                                 | -     | 14.17 | 14.35 |
| CA 4A-6A-6C      | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B4             | 20                   | 50665    | 5337.5       | LTE-B46          | 20                   | 52667       | 5117.7             | LTE-B46              | 20       | 52400        | 5067.5           | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | -                                 | -     | 14.27 | 14.35 |
| CA 4A-5A-5A      | LTE-B2   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B4             | 20                   | 2300     | 2145         | LTE-B5           | 10                   | 2525        | 881.5              | LTE-B30              | 10       | 5020         | 735              | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | -                                 | -     | 14.18 | 14.35 |
| CA 4A-5A-12A-3A  | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B4             | 20                   | 900      | 1960         | LTE-B12          | 5                    | 5095        | 737.5              | LTE-B30              | 5        | 5047         | 722.7            | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | -                                 | -     | 14.18 | 14.35 |
| CA 4A-4A-6A-6A   | LTE-B4   | 5            | 19975        | 1712.5 | 64QAM     | 1                | 24               | 19975                | 2112.5      | LTE-B4             | 20                   | 50665    | 5337.5       | LTE-B46          | 20                   | 52667       | 5117.7             | LTE-B46              | 20       | 52400        | 5067.5           | -                    | -           | -                  | -                    | -        | -            | -                | -                    | -                                     | -                                 | -     | 14.23 | 14.35 |

**Table 18**  
**Output Powers – Ant 4B**

| Combination      | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC    |           |                  | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC 1        |                  |                      | SCC Band | SCC 2        |                  |                      | SCC Band | SCC 3        |                  |                      | SCC Band | SCC 4        |                  |                      | LTE Tx Power with 5C CA Enabled [dBm] | LTE Single Carrier Tx Power [dBm] |
|------------------|----------|--------------|--------------|--------|-----------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|
|                  |          |              |              | Mod.   | PCC UL RB | PCC UL RB Offset |                  |                      |          | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] |          | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] |          | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] |          | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] |                                       |                                   |
| CA 2A-6A         | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B2       | 20               | 900                  | 1960     | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | 14.80                                 | 15.00                             |
| CA 4A-12A (1)    | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B12      | 10               | 5095                 | 737.5    | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | 14.80                                 | 15.00                             |
| CA 4A-12A (2)    | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B12      | 10               | 5095                 | 737.5    | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | 14.80                                 | 15.00                             |
| CA 4A-17A        | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B12      | 10               | 5095                 | 737.5    | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | 14.80                                 | 15.00                             |
| CA 4A-20A        | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B12      | 10               | 5095                 | 737.5    | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | 14.80                                 | 15.00                             |
| CA 2A-4A-13A     | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B2       | 20               | 900                  | 1960     | LTE B13      | 10               | 5230                 | 751      | -            | -                | -                    | -        | -            | -                | -                    | 14.81                                 | 15.00                             |
| CA 2A-4A-71A     | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B2       | 20               | 900                  | 1960     | LTE B71      | 10               | 68761                | 634.5    | -            | -                | -                    | -        | -            | -                | -                    | 14.80                                 | 15.00                             |
| CA 4A-4A-7A (1)  | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B4       | 20               | 2300                 | 2145     | LTE B7       | 10               | 5230                 | 751      | -            | -                | -                    | -        | -            | -                | -                    | 14.80                                 | 15.00                             |
| CA 4A-7A-7A      | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B7       | 20               | 2300                 | 2145     | LTE B7       | 20               | 2300                 | 2145     | -            | -                | -                    | -        | -            | -                | -                    | 14.80                                 | 15.00                             |
| CA 4A-4A-13A     | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B4       | 20               | 2300                 | 2145     | LTE B13      | 10               | 5230                 | 751      | -            | -                | -                    | -        | -            | -                | -                    | 14.80                                 | 15.00                             |
| CA 4A-4A-20A     | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B4       | 20               | 2300                 | 2145     | LTE B20      | 10               | 5230                 | 751      | -            | -                | -                    | -        | -            | -                | -                    | 14.80                                 | 15.00                             |
| CA 4A-4A-66A     | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B4       | 20               | 2300                 | 2145     | LTE B4       | 20               | 2300                 | 2145     | -            | -                | -                    | -        | -            | -                | -                    | 14.80                                 | 15.00                             |
| CA 4A-4A-71A     | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B4       | 20               | 2300                 | 2145     | LTE B71      | 10               | 68761                | 634.5    | -            | -                | -                    | -        | -            | -                | -                    | 14.80                                 | 15.00                             |
| CA 4A-7A-12A (1) | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B4       | 20               | 2300                 | 2145     | LTE B12      | 10               | 5095                 | 737.5    | -            | -                | -                    | -        | -            | -                | -                    | 14.80                                 | 15.00                             |
| CA 2A-2A-4A-4A   | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B4       | 20               | 2300                 | 2145     | LTE B2       | 20               | 900                  | 1960     | LTE B2       | 20               | 900                  | 1960     | -            | -                | -                    | 14.75                                 | 15.00                             |
| CA 2A-2A-4A-5A   | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B4       | 20               | 2300                 | 2145     | LTE B2       | 20               | 900                  | 1960     | LTE B5       | 10               | 2525                 | 881.5    | -            | -                | -                    | 14.78                                 | 15.00                             |
| CA 2A-4A-4A-5A   | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B4       | 20               | 2300                 | 2145     | LTE B5       | 10               | 2525                 | 881.5    | -            | -                | -                    | -        | -            | -                | -                    | 14.80                                 | 15.00                             |
| CA 2A-4A-5A      | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B4       | 20               | 2300                 | 2145     | LTE B5       | 10               | 2525                 | 881.5    | -            | -                | -                    | -        | -            | -                | -                    | 14.80                                 | 15.00                             |
| CA 2A-2A-4A-12A  | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B4       | 20               | 2300                 | 2145     | LTE B12      | 10               | 5095                 | 737.5    | -            | -                | -                    | -        | -            | -                | -                    | 14.78                                 | 15.00                             |
| CA 2A-2A-4A-12A  | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B4       | 20               | 2300                 | 2145     | LTE B12      | 10               | 5095                 | 737.5    | -            | -                | -                    | -        | -            | -                | -                    | 14.78                                 | 15.00                             |
| CA 2A-4A-12B     | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B2       | 20               | 900                  | 1960     | LTE B12      | 10               | 5095                 | 737.5    | -            | -                | -                    | -        | -            | -                | -                    | 14.76                                 | 15.00                             |
| CA 2A-4A-12A-30A | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B2       | 20               | 900                  | 1960     | LTE B12      | 10               | 5095                 | 737.5    | -            | -                | -                    | -        | -            | -                | -                    | 14.80                                 | 15.00                             |
| CA 2A-4A-12A-30A | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B2       | 20               | 900                  | 1960     | LTE B12      | 10               | 5095                 | 737.5    | -            | -                | -                    | -        | -            | -                | -                    | 14.80                                 | 15.00                             |
| CA 2A-4A-20A-30A | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B2       | 20               | 900                  | 1960     | LTE B20      | 10               | 5230                 | 751      | -            | -                | -                    | -        | -            | -                | -                    | 14.80                                 | 15.00                             |
| CA 4A-4A-5A      | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B4       | 20               | 2300                 | 2145     | LTE B5       | 10               | 2525                 | 881.5    | -            | -                | -                    | -        | -            | -                | -                    | 14.80                                 | 15.00                             |
| CA 4A-4A-12B     | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B4       | 20               | 2300                 | 2145     | LTE B12      | 10               | 5095                 | 737.5    | -            | -                | -                    | -        | -            | -                | -                    | 14.80                                 | 15.00                             |
| CA 4A-4A-66A     | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B4       | 20               | 2300                 | 2145     | LTE B4       | 20               | 2300                 | 2145     | -            | -                | -                    | -        | -            | -                | -                    | 14.80                                 | 15.00                             |
| CA 4A-4A-5A-30A  | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B4       | 20               | 2300                 | 2145     | LTE B5       | 10               | 2525                 | 881.5    | -            | -                | -                    | -        | -            | -                | -                    | 14.80                                 | 15.00                             |
| CA 4A-4A-12A-30A | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B4       | 20               | 2300                 | 2145     | LTE B12      | 10               | 5095                 | 737.5    | -            | -                | -                    | -        | -            | -                | -                    | 14.80                                 | 15.00                             |
| CA 4A-4A-44D     | LTE B4   | 15           | 20025        | 1717.5 | 64QAM     | 1                | 74               | 2025                 | 2117.5   | LTE B4       | 20               | 2300                 | 2145     | LTE B4       | 20               | 2300                 | 2145     | -            | -                | -                    | -        | -            | -                | -                    | 14.80                                 | 15.00                             |

### 1.3.9 LTE Band 66 as PCC

**Table 19**  
**Output Powers – Ant 2A**

| Combination        | PCC Band | PCC BW [MHz] | PCC (UL) Ch | PCC    |           |                  | PCC (DL) Freq. [MHz] | SCC Band | SCC 1        |                  |                      | SCC Band | SCC 2        |                  |                      | SCC Band | SCC 3        |                  |                      | SCC Band | SCC 4 |   |   | LTE Tx Power with 5C CA Enabled [dBm] | LTE Single Carrier Tx Power [dBm] |       |       |
|--------------------|----------|--------------|-------------|--------|-----------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|-------|---|---|---------------------------------------|-----------------------------------|-------|-------|
|                    |          |              |             | Mod.   | PCC UL RB | PCC UL RB Offset |                      |          | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] |          | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] |          | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] |          |       |   |   |                                       |                                   |       |       |
| CA 2A-66A          | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B2           | 20                   | 900      | 1960         | -                | -                    | -        | -            | -                | -                    | -        | -     | - | - | 14.46                                 | 14.49                             |       |       |
| CA 2A-66A          | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B7           | 20                   | 3100     | 2865         | -                | -                    | -        | -            | -                | -                    | -        | -     | - | - | 14.49                                 | 14.49                             |       |       |
| CA 12A-66A (1)     | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B12          | 10                   | 5095     | 737.5        | -                | -                    | -        | -            | -                | -                    | -        | -     | - | - | 14.46                                 | 14.49                             |       |       |
| CA 12A-66A (2)     | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B12          | 10                   | 5095     | 737.5        | -                | -                    | -        | -            | -                | -                    | -        | -     | - | - | 14.46                                 | 14.49                             |       |       |
| CA 2C-66A          | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B2           | 20                   | 900      | 1960         | LTE B2           | 20                   | 700      | 1940         | -                | -                    | -        | -     | - | - | -                                     | 14.46                             | 14.49 |       |
| CA 2A-66A-66A      | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B2           | 20                   | 900      | 1960         | LTE B46          | 20                   | 50685    | 5537.5       | -                | -                    | -        | -     | - | - | -                                     | 14.46                             | 14.49 |       |
| CA 2A-66A-71A      | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B2           | 20                   | 900      | 1960         | LTE B71          | 10                   | 68761    | 634.5        | -                | -                    | -        | -     | - | - | -                                     | 14.46                             | 14.49 |       |
| CA 13A-66A-66A     | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B13          | 10                   | 5210     | 751          | LTE B46          | 20                   | 50665    | 5537.5       | -                | -                    | -        | -     | - | - | -                                     | 14.45                             | 14.49 |       |
| CA 20A-66A-66A     | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B20          | 10                   | 5235     | 722.5        | -                | -                    | -        | -     | - | - | -                                     | 14.46                             | 14.49 |       |
| CA 66A-66A-66A     | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B4           | 20                   | 50685    | 5537.5       | LTE B46          | 20                   | 50685    | 5537.5       | -                | -                    | -        | -     | - | - | -                                     | 14.46                             | 14.49 |       |
| CA 66A-66A-66A     | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B4           | 20                   | 50685    | 5537.5       | LTE B46          | 20                   | 50685    | 5537.5       | -                | -                    | -        | -     | - | - | -                                     | 14.46                             | 14.49 |       |
| CA 66D             | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B66          | 20                   | 67236    | 2190         | -                | -                    | -        | -     | - | - | -                                     | 14.46                             | 14.49 |       |
| CA 66A-66A-71A     | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B71          | 10                   | 68761    | 634.5        | -                | -                    | -        | -     | - | - | -                                     | 14.47                             | 14.49 |       |
| CA 66C-71A         | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B71          | 10                   | 68761    | 634.5        | -                | -                    | -        | -     | - | - | -                                     | 14.47                             | 14.49 |       |
| CA 2A-2A-66A-66A   | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B2           | 20                   | 900      | 1960         | LTE B2           | 20                   | 700      | 1940  | - | - | -                                     | -                                 | 14.47 | 14.49 |
| CA 2A-2A-5A-66A    | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B2           | 20                   | 900      | 1960         | LTE B2           | 20                   | 900      | 1960         | LTE B5           | 10                   | 2525     | 881.5 | - | - | -                                     | -                                 | 14.48 | 14.49 |
| CA 2A-5A-66A-66A   | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B2           | 20                   | 900      | 1960         | LTE B5           | 10                   | 2525     | 881.5 | - | - | -                                     | -                                 | 14.48 | 14.49 |
| CA 2A-12A-66A      | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B2           | 20                   | 900      | 1960         | LTE B12          | 10                   | 5095     | 737.5        | -                | -                    | -        | -     | - | - | -                                     | 14.48                             | 14.49 |       |
| CA 2A-12A-66A-66A  | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B12          | 10                   | 5095     | 737.5        | -                | -                    | -        | -     | - | - | -                                     | 14.49                             | 14.49 |       |
| CA 2A-12A-66C      | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B12          | 10                   | 5095     | 737.5        | -                | -                    | -        | -     | - | - | -                                     | 14.48                             | 14.49 |       |
| CA 2A-13A-66A      | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B2           | 20                   | 900      | 1960         | LTE B13          | 10                   | 5230     | 761          | -                | -                    | -        | -     | - | - | -                                     | 14.46                             | 14.49 |       |
| CA 2A-13A-66A-66A  | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B13          | 10                   | 5230     | 761          | -                | -                    | -        | -     | - | - | -                                     | 14.46                             | 14.49 |       |
| CA 2A-13A-66C      | LTE B66  | 15           | 132047      | 1717.5 | 64QAM     | 1                | 74                   | 66511    | 2117.5       | LTE B66          | 5                    | 66604    | 2126.8       | LTE B2           | 20                   | 900      | 1960         | LTE B13          | 10                   | 5230     | 761   | - | - | -                                     | -                                 | 14.39 | 14.48 |
| CA 2A-14A-66A      | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B2           | 20                   | 900      | 1960         | LTE B14          | 10                   | 5235     | 761          | -                | -                    | -        | -     | - | - | -                                     | 14.48                             | 14.49 |       |
| CA 2A-14A-66A-66A  | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B14          | 10                   | 5235     | 761          | -                | -                    | -        | -     | - | - | -                                     | 14.49                             | 14.49 |       |
| CA 2A-2A-10A-66A   | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B2           | 20                   | 900      | 1960         | LTE B2           | 20                   | 900      | 1960         | LTE B10          | 10                   | 4820     | 2355  | - | - | -                                     | -                                 | 14.49 | 14.49 |
| CA 2A-5A-66C-66A   | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B2           | 20                   | 900      | 1960         | LTE B5           | 10                   | 2525     | 881.5        | -                | -                    | -        | -     | - | - | -                                     | 14.48                             | 14.49 |       |
| CA 2A-5A-66A-66A   | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B5           | 10                   | 2525     | 881.5        | -                | -                    | -        | -     | - | - | -                                     | 14.48                             | 14.49 |       |
| CA 2A-10A-30A-66A  | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B2           | 20                   | 900      | 1960         | LTE B14          | 10                   | 5235     | 761          | LTE B30          | 10                   | 9820     | 2355  | - | - | -                                     | -                                 | 14.48 | 14.49 |
| CA 2A-20A-30A-66A  | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B2           | 20                   | 900      | 1960         | LTE B14          | 10                   | 5235     | 761          | LTE B30          | 10                   | 9820     | 2355  | - | - | -                                     | -                                 | 14.48 | 14.49 |
| CA 5A-66A-66B      | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B66          | 20                   | 67236    | 2190         | LTE B5           | 10                   | 2525     | 881.5 | - | - | -                                     | -                                 | 14.46 | 14.49 |
| CA 5A-66A-66C      | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B66          | 20                   | 67236    | 2190         | LTE B5           | 10                   | 2525     | 881.5 | - | - | -                                     | -                                 | 14.46 | 14.49 |
| CA 5A-30A-66A-66A  | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B66          | 20                   | 67236    | 2190         | LTE B30          | 10                   | 9820     | 2355  | - | - | -                                     | -                                 | 14.46 | 14.49 |
| CA 12A-30A-66A-66A | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B12          | 10                   | 5095     | 737.5        | LTE B30          | 10                   | 9820     | 2355  | - | - | -                                     | -                                 | 14.47 | 14.49 |
| CA 13A-66A-66C     | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B66          | 20                   | 67236    | 2190         | LTE B13          | 10                   | 5230     | 761   | - | - | -                                     | -                                 | 14.46 | 14.48 |
| CA 13A-66A-66C     | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B66          | 20                   | 67236    | 2190         | LTE B13          | 10                   | 5230     | 761   | - | - | -                                     | -                                 | 14.48 | 14.48 |
| CA 13A-66C-66A     | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B66          | 20                   | 67236    | 2190         | LTE B13          | 10                   | 5230     | 761   | - | - | -                                     | -                                 | 14.48 | 14.48 |
| CA 13A-66C-66A     | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B66          | 20                   | 67236    | 2190         | LTE B13          | 10                   | 5230     | 761   | - | - | -                                     | -                                 | 14.48 | 14.48 |
| CA 13A-66C-66A     | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B66          | 20                   | 67236    | 2190         | LTE B13          | 10                   | 5230     | 761   | - | - | -                                     | -                                 | 14.48 | 14.48 |
| CA 13A-66C-66A     | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B66          | 20                   | 67236    | 2190         | LTE B13          | 10                   | 5230     | 761   | - | - | -                                     | -                                 | 14.48 | 14.48 |
| CA 13A-66C-66A     | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B66          | 20                   | 67236    | 2190         | LTE B13          | 10                   | 5230     | 761   | - | - | -                                     | -                                 | 14.48 | 14.48 |
| CA 13A-66C-66A     | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B66          | 20                   | 67236    | 2190         | LTE B13          | 10                   | 5230     | 761   | - | - | -                                     | -                                 | 14.48 | 14.48 |
| CA 13A-66C-66A     | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B66          | 20                   | 67236    | 2190         | LTE B13          | 10                   | 5230     | 761   | - | - | -                                     | -                                 | 14.48 | 14.48 |
| CA 13A-66C-66A     | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B66          | 20                   | 67236    | 2190         | LTE B13          | 10                   | 5230     | 761   | - | - | -                                     | -                                 | 14.48 | 14.48 |
| CA 13A-66C-66A     | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B66          | 20                   | 67236    | 2190         | LTE B13          | 10                   | 5230     | 761   | - | - | -                                     | -                                 | 14.48 | 14.48 |
| CA 13A-66C-66A     | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B66          | 20                   | 67236    | 2190         | LTE B13          | 10                   | 5230     | 761   | - | - | -                                     | -                                 | 14.48 | 14.48 |
| CA 13A-66C-66A     | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B66          | 20                   | 67236    | 2190         | LTE B13          | 10                   | 5230     | 761   | - | - | -                                     | -                                 | 14.48 | 14.48 |
| CA 13A-66C-66A     | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B66          | 20                   | 67236    | 2190         | LTE B13          | 10                   | 5230     | 761   | - | - | -                                     | -                                 | 14.48 | 14.48 |
| CA 13A-66C-66A     | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B66          | 20                   | 67236    | 2190         | LTE B13          | 10                   | 5230     | 761   | - | - | -                                     | -                                 | 14.48 | 14.48 |
| CA 13A-66C-66A     | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B66          | 20                   | 67236    | 2190         | LTE B13          | 10                   | 5230     | 761   | - | - | -                                     | -                                 | 14.48 | 14.48 |
| CA 13A-66C-66A     | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B66          | 20                   | 67236    | 2190         | LTE B13          | 10                   | 5230     | 761   | - | - | -                                     | -                                 | 14.48 | 14.48 |
| CA 13A-66C-66A     | LTE B66  | 20           | 132072      | 1720   | 64QAM     | 1                | 99                   | 66536    | 2120         | LTE B66          | 20                   | 67236    | 2190         | LTE B66          | 20                   | 67236    | 2190         | LTE B13          | 10                   | 5230     | 761   | - | - | -                                     | -                                 | 14.48 | 14.48 |
|                    |          |              |             |        |           |                  |                      |          |              |                  |                      |          |              |                  |                      |          |              |                  |                      |          |       |   |   |                                       |                                   |       |       |

### Output Powers – Ant 2E

[illegible]

### Output Powers – Ant 4A

[illegible]

FCC ID: BCGA2014



## SAR EVALUATION REPORT

**Test Dates:**

|           |
|-----------|
| DUT Type: |
|-----------|

Tablet Device

Reviewed by:

Quality Manager

APPENDIX H:

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REV 20.05 M

11/15/2017

**Table 22**  
**Output Powers – Ant 4B**

| Combination         | PCC Band | PCC BW [MHz] | PCC (UL) Freq. [MHz] | PCC Mod. | PCC UL# RB | PCC UL# RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC 1        |                  |                      |          | SCC 2        |                  |                      |          | SCC 3        |                  |                      |          | SCC 4        |                  |                      |      | LTE Tx Power with 2x CA Enabled [dBm] | LTE Single Carrier Tx Power [dBm] |     |       |       |       |       |       |
|---------------------|----------|--------------|----------------------|----------|------------|-------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|------|---------------------------------------|-----------------------------------|-----|-------|-------|-------|-------|-------|
|                     |          |              |                      |          |            |                   |                  |                      |          | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] |      |                                       |                                   |     |       |       |       |       |       |
| CA_2A-66A           | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B2       | 20               | 900                  | 1960     | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | -    | -                                     | -                                 | -   | 14.99 | 15.00 |       |       |       |
| CA_7A-66A           | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B7       | 20               | 3100                 | 2655     | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | -    | -                                     | -                                 | -   | 14.99 | 15.00 |       |       |       |
| CA_12A-66A(1)       | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B12      | 10               | 5095                 | 737.5    | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | -    | -                                     | -                                 | -   | 14.88 | 15.00 |       |       |       |
| CA_12A-66A(2)       | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B12      | 10               | 5095                 | 737.5    | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | -    | -                                     | -                                 | -   | 14.99 | 15.00 |       |       |       |
| CA_2A-66A           | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B2       | 20               | 900                  | 1960     | LTE-B2       | 20               | 700                  | 1940     | -            | -                | -                    | -        | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | 14.85 | 15.00 |       |       |
| CA_2A-66A-66A       | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B2       | 20               | 900                  | 1960     | LTE-B4E      | 20               | 50665                | 5537.5   | -            | -                | -                    | -        | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | 14.80 | 15.00 |       |       |
| CA_2A-66A-71A       | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B2       | 20               | 900                  | 1960     | LTE-B71      | 20               | 68761                | 634.5    | -            | -                | -                    | -        | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | 14.83 | 15.00 |       |       |
| CA_13A-66A-66A      | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B13      | 10               | 5230                 | 751      | LTE-B4E      | 20               | 50665                | 5537.5   | -            | -                | -                    | -        | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | 14.89 | 15.00 |       |       |
| CA_2A-66A-66A       | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B8E      | 20               | 67236                | 2190     | LTE-B29      | 10               | 9715                 | 722.5    | -            | -                | -                    | -        | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | 14.91 | 15.00 |       |       |
| CA_6A-66A-66A       | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B4E      | 20               | 50665                | 5537.5   | LTE-B4E      | 20               | 47090                | 5180     | -            | -                | -                    | -        | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | 14.81 | 15.00 |       |       |
| CA_30A-66A-66A      | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B8E      | 20               | 67236                | 2190     | LTE-B4E      | 20               | 50665                | 5537.5   | -            | -                | -                    | -        | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | 14.79 | 15.00 |       |       |
| CA_6A-60            | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B8E      | 20               | 66682                | 2134.6   | LTE-B8E      | 20               | 67078                | 2174.2   | -            | -                | -                    | -        | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | 14.81 | 15.00 |       |       |
| CA_66A-66A-71A      | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B8E      | 20               | 67236                | 2190     | LTE-B71      | 20               | 68761                | 634.5    | -            | -                | -                    | -        | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | 14.78 | 15.00 |       |       |
| CA_66C-71A          | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B8E      | 20               | 66682                | 2134.6   | LTE-B71      | 20               | 68761                | 634.5    | -            | -                | -                    | -        | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | 14.81 | 15.00 |       |       |
| CA_2A-2A-66A-66A    | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B8E      | 20               | 67236                | 2190     | LTE-B2       | 20               | 900                  | 1960     | LTE-B2       | 20               | 700                  | 1940     | LTE-B2       | 20               | 700                  | 1940 | LTE-B2                                | 20                                | 700 | 1940  | 14.88 | 15.00 |       |       |
| CA_2A-2A-5A-66A-66A | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B2       | 20               | 900                  | 1960     | LTE-B2       | 20               | 700                  | 1940     | LTE-B5       | 10               | 2525                 | 881.5    | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | 14.84 | 15.00 |       |
| CA_2A-2A-12A-66A    | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B2       | 20               | 900                  | 1960     | LTE-B12      | 10               | 5095                 | 737.5    | -            | -                | -                    | -        | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | 14.93 | 15.00 |       |
| CA_2A-12A-66A-66A   | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B8E      | 20               | 67236                | 2190     | LTE-B2       | 20               | 900                  | 1960     | LTE-B12      | 10               | 5095                 | 737.5    | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | -     | 14.92 | 15.00 |
| CA_2A-12A-66C       | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B8E      | 20               | 66682                | 2134.6   | LTE-B2       | 20               | 900                  | 1960     | LTE-B12      | 10               | 5095                 | 737.5    | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | -     | 14.89 | 15.00 |
| CA_2A-2A-13A-66A    | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B2       | 20               | 900                  | 1960     | LTE-B13      | 10               | 5230                 | 751      | -            | -                | -                    | -        | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | 14.83 | 15.00 |       |
| CA_2A-13A-66A-66A   | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B8E      | 20               | 67236                | 2190     | LTE-B13      | 10               | 5230                 | 751      | -            | -                | -                    | -        | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | 14.85 | 15.00 |       |
| CA_2A-13A-66B       | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B8E      | 5                | 66604                | 2124.6   | LTE-B2       | 20               | 900                  | 1960     | LTE-B13      | 10               | 5230                 | 751      | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | -     | 14.82 | 15.00 |
| CA_2A-13A-66C       | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B8E      | 20               | 66682                | 2134.6   | LTE-B2       | 20               | 900                  | 1960     | LTE-B13      | 10               | 5230                 | 751      | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | -     | 14.84 | 15.00 |
| CA_2A-2A-14A-66A    | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B2       | 20               | 900                  | 1960     | LTE-B2       | 20               | 700                  | 1940     | LTE-B14      | 10               | 5330                 | 763      | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | -     | 14.79 | 15.00 |
| CA_2A-14A-66A-66A   | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B8E      | 20               | 67236                | 2190     | LTE-B2       | 20               | 900                  | 1960     | LTE-B14      | 10               | 5330                 | 763      | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | -     | 14.78 | 15.00 |
| CA_2A-2A-30A-66A    | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B2       | 20               | 900                  | 1960     | LTE-B2       | 20               | 700                  | 1940     | LTE-B30      | 10               | 9820                 | 2355     | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | -     | 14.90 | 15.00 |
| CA_2A-30A-66A       | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B2       | 20               | 900                  | 1960     | LTE-B4E      | 20               | 50665                | 5537.5   | LTE-B4E      | 20               | 50667                | 5537.7   | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | -     | 14.87 | 15.00 |
| CA_2A-3A-30A-66A    | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B2       | 20               | 900                  | 1960     | LTE-B5       | 10               | 2525                 | 881.5    | LTE-B30      | 10               | 9820                 | 2355     | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | -     | 14.84 | 15.00 |
| CA_2A-12A-30A-66A   | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B2       | 20               | 900                  | 1960     | LTE-B12      | 10               | 5095                 | 737.5    | LTE-B30      | 10               | 9820                 | 2355     | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | -     | 14.88 | 15.00 |
| CA_2A-14A-30A-66A   | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B2       | 20               | 900                  | 1960     | LTE-B14      | 10               | 5330                 | 763      | LTE-B30      | 10               | 9820                 | 2355     | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | -     | 14.83 | 15.00 |
| CA_3A-20A-30A-66A   | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B2       | 20               | 900                  | 1960     | LTE-B29      | 10               | 9715                 | 722.5    | LTE-B30      | 10               | 9820                 | 2355     | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | -     | 14.90 | 15.00 |
| CA_3A-60            | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B8E      | 20               | 66682                | 2134.6   | LTE-B8E      | 20               | 66683                | 2151.7   | LTE-B5       | 10               | 2525                 | 881.5    | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | -     | 14.74 | 15.00 |
| CA_3A-66A-66B       | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B8E      | 5                | 67168                | 2124.2   | LTE-B8E      | 11               | 67361                | 2129.5   | LTE-B5       | 10               | 2525                 | 881.5    | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | -     | 14.79 | 15.00 |
| CA_3A-66A-66C       | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B8E      | 20               | 67038                | 2170.2   | LTE-B8E      | 20               | 67236                | 2190     | LTE-B5       | 10               | 2525                 | 881.5    | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | -     | 14.83 | 15.00 |
| CA_3A-30A-66A-66A   | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B8E      | 20               | 67236                | 2190     | LTE-B5       | 10               | 2525                 | 881.5    | LTE-B30      | 10               | 9820                 | 2355     | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | -     | 14.77 | 15.00 |
| CA_12A-30A-66A-66A  | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B8E      | 20               | 67236                | 2190     | LTE-B12      | 10               | 5095                 | 737.5    | LTE-B30      | 10               | 9820                 | 2355     | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | -     | 14.79 | 15.00 |
| CA_13A-66A-66C      | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B8E      | 5                | 67368                | 2123.2   | LTE-B8E      | 15               | 67361                | 2129.5   | LTE-B13      | 10               | 5230                 | 751      | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | -     | 14.83 | 15.00 |
| CA_13A-66A-66C      | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B8E      | 20               | 67038                | 2170.2   | LTE-B8E      | 20               | 67236                | 2190     | LTE-B13      | 10               | 5230                 | 751      | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | -     | 14.77 | 15.00 |
| CA_30A-66C-66A      | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B30      | 10               | 5230                 | 751      | LTE-B4E      | 20               | 50665                | 5537.5   | LTE-B4E      | 20               | 50667                | 5537.7   | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | -     | 14.79 | 15.00 |
| CA_14A-30A-66A-66A  | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B8E      | 20               | 67236                | 2190     | LTE-B14      | 10               | 5330                 | 763      | LTE-B30      | 10               | 9820                 | 2355     | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | -     | 14.76 | 15.00 |
| CA_6A-66C-66A       | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B4E      | 20               | 50665                | 5537.5   | LTE-B4E      | 20               | 50667                | 5537.7   | LTE-B4E      | 20               | 53445                | 5425     | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | -     | 14.75 | 15.00 |
| CA_6C-66A-66A       | LTE-B8E  | 15           | 132047               | 1717.5   | 64QAM      | 1                 | 74               | 66511                | 2117.5   | LTE-B8E      | 5                | 66604                | 2124.6   | LTE-B8E      | 5                | 66604                | 2124.6   | LTE-B5       | 10               | 2525                 | 881.5    | -            | -                | -                    | -    | -                                     | -                                 | -   | -     | -     | -     | 14.81 | 15.00 |
| CA_5A-66C-66A       | L        |              |                      |          |            |                   |                  |                      |          |              |                  |                      |          |              |                  |                      |          |              |                  |                      |          |              |                  |                      |      |                                       |                                   |     |       |       |       |       |       |

### 1.3.10 LTE Band 2 as PCC

**Table 23**  
**Output Powers – Ant 2A**

| Combination                                                                                                                     | PCB Band | PCB W/ [MHz] | PCC (DL) Ch. [MHz] | PCC    |      | PCC ULB RB | PCC ULB Offset | PCC (DL) Chan | PCC (DL) Freq [MHz] | SCC Band | SCC W/ [MHz] | SCC (DL) Chan | SCC (DL) Freq [MHz] | SCC Band | SCC W/ [MHz] | SCC (DL) Chan | SCC (DL) Freq [MHz] | SCC Band | SCC W/ [MHz] | SCC (DL) Chan | SCC (DL) Freq [MHz] | SCC Band | SCC W/ [MHz] | SCC (DL) Chan | SCC (DL) Freq [MHz] | SCC Band | SCC W/ [MHz] | SCC (DL) Chan | SCC (DL) Freq [MHz] | LTE Tx Power (dBm) | LTE Single Tx Power (dBm) |
|---------------------------------------------------------------------------------------------------------------------------------|----------|--------------|--------------------|--------|------|------------|----------------|---------------|---------------------|----------|--------------|---------------|---------------------|----------|--------------|---------------|---------------------|----------|--------------|---------------|---------------------|----------|--------------|---------------|---------------------|----------|--------------|---------------|---------------------|--------------------|---------------------------|
|                                                                                                                                 |          |              |                    | Mod.   | Mod. |            |                |               |                     |          |              |               |                     |          |              |               |                     |          |              |               |                     |          |              |               |                     |          |              |               |                     |                    |                           |
| CA 2A-4A                                                                                                                        | LTE B2   | 3            | 18655              | 1861.5 | 1860 |            | 7              | 6355          | 1931.5              | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          |              |               |                     |          |              |               | 15.39               | 15.39              |                           |
| CA 2A 12A                                                                                                                       | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 10           | 50955         | 721.5               |          |              |               |                     |          |              |               |                     |          |              |               |                     |          |              |               | 15.39               | 15.39              |                           |
| CA 2A 13A                                                                                                                       | LTE B2   | 20           | 18650              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 50970         | 740                 |          |              |               |                     |          |              |               |                     |          |              |               |                     |          |              |               | 15.37               | 15.37              |                           |
| CA 2A 29A                                                                                                                       | LTE B2   | 20           | 18660              | 1855   | 1860 |            | 0              | 650           | 1935                | LTE B12  | 10           | 50715         | 721.5               |          |              |               |                     |          |              |               |                     |          |              |               |                     |          |              |               | 15.37               | 15.37              |                           |
| CA 2A 29A 66A                                                                                                                   | LTE B2   | 20           | 18660              | 1855   | 1860 |            | 0              | 650           | 1935                | LTE B12  | 10           | 50715         | 721.5               |          |              |               |                     |          |              |               |                     |          |              |               |                     |          |              |               | 15.37               | 15.37              |                           |
| CA 2A 50A                                                                                                                       | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 50970         | 740                 |          |              |               |                     |          |              |               |                     |          |              |               |                     |          |              |               | 15.32               | 15.39              |                           |
| CA 2C 13A                                                                                                                       | LTE B2   | 20           | 18750              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 5098          | 1959.8              | LTE B12  | 20           | 5095          | 737.0               |          |              |               |                     |          |              |               |                     |          |              |               | 15.31               | 15.39              |                           |
| CA 2C 29A                                                                                                                       | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 5098          | 1959.8              | LTE B12  | 20           | 5095          | 722.5               |          |              |               |                     |          |              |               |                     |          |              |               | 15.39               | 15.39              |                           |
| CA 2C 30A                                                                                                                       | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 5098          | 1959.8              | LTE B12  | 20           | 5095          | 737.0               |          |              |               |                     |          |              |               |                     |          |              |               | 15.39               | 15.39              |                           |
| CA 2A 2A 66A                                                                                                                    | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B46  | 20           | 50665         | 5537.5              |          |              |               |                     |          |              |               |                     |          |              |               | 15.39               | 15.39              |                           |
| CA 2A 2A 66A 66A                                                                                                                | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B46  | 20           | 50665         | 5537.5              |          |              |               |                     |          |              |               |                     |          |              |               | 15.39               | 15.39              |                           |
| CA 2C 66A                                                                                                                       | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 808           | 1959.8              | LTE B12  | 20           | 66780         | 2145                |          |              |               |                     |          |              |               |                     |          |              |               | 15.39               | 15.39              |                           |
| CA 2A 2A 71A                                                                                                                    | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B12  | 20           | 50673         | 634.5               |          |              |               |                     |          |              |               |                     |          |              | 15.32         | 15.39               |                    |                           |
| CA 2A 2A 13A 13A                                                                                                                | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 21275         | 21212.5             | LTE B12  | 20           | 50820         | 740                 |          |              |               |                     |          |              |               |                     |          |              | 15.32         | 15.39               |                    |                           |
| CA 2A 4A 71A                                                                                                                    | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 21275         | 21212.5             | LTE B12  | 20           | 50873         | 634.5               |          |              |               |                     |          |              |               |                     |          |              | 15.32         | 15.39               |                    |                           |
| CA 2A 4A 66A                                                                                                                    | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 50665         | 5537.5              |          |              |               |                     |          |              |               |                     |          |              |               |                     |          |              | 15.39         | 15.39               |                    |                           |
| CA 2A 4A 66A 66A                                                                                                                | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 50665         | 5537.5              |          |              |               |                     |          |              |               |                     |          |              |               |                     |          |              | 15.39         | 15.39               |                    |                           |
| CA 2A 66A 71A                                                                                                                   | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 66786         | 2145                | LTE B12  | 20           | 50763         | 634.5               |          |              |               |                     |          |              |               |                     |          |              | 15.32         | 15.39               |                    |                           |
| CA 2A 6A 4A                                                                                                                     | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          |              | 15.39         | 15.39               |                    |                           |
| CA 2A 6A 4A 66A                                                                                                                 | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A                                                                                                             | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A                                                                                                         | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A                                                                                                     | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A 66A                                                                                                 | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A 66A 66A                                                                                             | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A 66A 66A 66A                                                                                         | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A 66A 66A 66A 66A                                                                                     | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A 66A 66A 66A 66A 66A                                                                                 | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A                                                                             | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A                                                                         | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A                                                                     | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A                                                                 | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A                                                             | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A                                                         | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A                                                     | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A                                                 | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A                                             | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A                                         | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A                                     | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A                                 | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A                             | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A                         | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A                     | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A                 | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A             | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A         | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A     | LTE B2   | 20           | 18700              | 1860   | 1860 |            | 0              | 700           | 1940                | LTE B12  | 20           | 11000         | 1860                | LTE B4   | 20           | 21275         | 21212.5             |          |              |               |                     |          |              |               |                     |          | 15.39        | 15.39         |                     |                    |                           |
| CA 2A 6A 4A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A 66A | LTE B2   | 20           |                    |        |      |            |                |               |                     |          |              |               |                     |          |              |               |                     |          |              |               |                     |          |              |               |                     |          |              |               |                     |                    |                           |

**Table 24**  
**Output Powers – Ant 2B**

[illegible]

FCC ID: BCGA2014



## SAR EVALUATION REPORT

**Test Dates:**

DUT Type:

09/06/18 – 09/21/18

### Tablet Device

Reviewed by:

Quality Manager

## APPENDIX H:

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## Output Powers – Ant 4A

[illegible]

| SCC 1 |  |  |  | SCC 2 |  |  |  |
|-------|--|--|--|-------|--|--|--|
|-------|--|--|--|-------|--|--|--|

[illegible]

FCC ID: BCGA2014

Test Dates:

09/06/18 – 09/21/18



DUT Type:

Tablet Device

# SAR EVALUATION REPORT

Reviewed by:

Quality Manager

APPENDIX H

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REV 20.05 M

11/15/2017

### 1.3.11 LTE Band 25 as PCC

Table 27  
Output Powers – Ant 2A

| Combination    | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC                  |       |            |                  |                  | SCC 1                |          |              |                  | SCC 2                |          |              |                  | Power                |                                       |                                   |
|----------------|----------|--------------|--------------|----------------------|-------|------------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|
|                |          |              |              | PCC (UL) Freq. [MHz] | Mod.  | PCC UL# RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA_5A-25A      | LTE B25  | 20           | 26140        | 1860                 | 64QAM | 1          | 0                | 8140             | 1940                 | LTE B5   | 10           | 2525             | 881.5                | -        | -            | -                | 15.39                | 15.39                                 |                                   |
| CA_25A-26A     | LTE B25  | 3            | 26055        | 1851.5               | 64QAM | 1          | 7                | 8055             | 1931.5               | LTE B26  | 10           | 8865             | 876.5                | -        | -            | -                | 15.40                | 15.40                                 |                                   |
| CA_25A-25A-26A | LTE B25  | 20           | 26140        | 1860                 | 64QAM | 1          | 0                | 8140             | 1940                 | LTE B25  | 20           | 8590             | 1985                 | LTE B26  | 5            | 8865             | 876.5                | 15.23                                 | 15.39                             |

Table 28  
Output Powers – Ant 2B

|                | PCC      |              |              |                      |      |            |                  |                  | SCC 1                |          |              |                  | SCC 2                |          |              |                  | Power                |                                       |                                   |
|----------------|----------|--------------|--------------|----------------------|------|------------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|
| Combination    | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod. | PCC UL# RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA_5A-25A      | LTE B25  | 20           | 26140        | 1860                 | QPSK | 1          | 0                | 8140             | 1940                 | LTE B5   | 10           | 2525             | 881.5                | -        | -            | -                | -                    | 15.30                                 | 15.30                             |
| CA_25A-26A     | LTE B25  | 20           | 26140        | 1860                 | QPSK | 1          | 0                | 8140             | 1940                 | LTE B26  | 10           | 8865             | 876.5                | -        | -            | -                | -                    | 15.29                                 | 15.30                             |
| CA_25A-25A-26A | LTE B25  | 20           | 26140        | 1860                 | QPSK | 1          | 0                | 8140             | 1940                 | LTE B25  | 20           | 8590             | 1985                 | LTE B26  | 5            | 8865             | 876.5                | 15.25                                 | 15.30                             |

Table 29  
Output Powers – Ant 4A

|                | PCC      |              |              |                      |       |         |                  |                  | SCC 1                |          |              |                  | SCC 2                |          |              |                  | Power                |                                       |                                   |
|----------------|----------|--------------|--------------|----------------------|-------|---------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|
| Combination    | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod.  | PCC UL# | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA_5A-25A      | LTE B25  | 15           | 26365        | 1882.5               | 16QAM | 1       | 0                | 8365             | 1962.5               | LTE B5   | 10           | 2525             | 881.5                | -        | -            | -                | -                    | 15.04                                 | 15.08                             |
| CA_25A-26A     | LTE B25  | 15           | 26365        | 1882.5               | 16QAM | 1       | 0                | 8365             | 1962.5               | LTE B26  | 10           | 8865             | 876.5                | -        | -            | -                | -                    | 15.03                                 | 15.08                             |
| CA_25A-25A-26A | LTE B25  | 15           | 26365        | 1882.5               | 16QAM | 1       | 0                | 8365             | 1962.5               | LTE B25  | 20           | 8140             | 1940                 | LTE B26  | 5            | 8865             | 876.5                | 14.87                                 | 15.08                             |

Table 30  
Output Powers – Ant 4B

| Combination    | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC                  |       |         |                  |                  | SCC 1                |          |              |                  | SCC 2                |          |              |                  | Power                |                                       |                                   |
|----------------|----------|--------------|--------------|----------------------|-------|---------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|
|                |          |              |              | PCC (UL) Freq. [MHz] | Mod.  | PCC UL# | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA_5A-25A      | LTE B25  | 10           | 26365        | 1882.5               | 16QAM | 1       | 49               | 8365             | 1962.5               | LTE B5   | 10           | 2525             | 881.5                | -        | -            | -                | -                    | 14.42                                 | 14.50                             |
| CA_25A-26A     | LTE B25  | 10           | 26365        | 1882.5               | 16QAM | 1       | 49               | 8365             | 1962.5               | LTE B26  | 10           | 8865             | 876.5                | -        | -            | -                | -                    | 14.48                                 | 14.50                             |
| CA_25A-25A-26A | LTE B25  | 10           | 26365        | 1882.5               | 16QAM | 1       | 49               | 8365             | 1962.5               | LTE B25  | 20           | 8140             | 1940                 | LTE B26  | 5            | 8865             | 876.5                | 14.28                                 | 14.50                             |

### 1.3.12 LTE Band 30 as PCC

Table 31  
Output Powers – Ant 2A

| Combination        | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC  |            |                  |                  | SCC 1               |          |              |                  | SCC 2               |          |              |                  | SCC 3               |          |              |                  | SCC 4               |       | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |      |       |       |
|--------------------|----------|--------------|--------------|------|------------|------------------|------------------|---------------------|----------|--------------|------------------|---------------------|----------|--------------|------------------|---------------------|----------|--------------|------------------|---------------------|-------|---------------------------------------|-----------------------------------|-------|------|-------|-------|
|                    |          |              |              | Mod. | PCC UL# RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq [MHz] |       |                                       |                                   |       |      |       |       |
| CA_2C-30A          | LTE B30  | 5            | 27710        | 2310 | QPSK       | 1                | 0                | 9820                | 2355     | LTE B2       | 20               | 900                 | 1960     | LTE B2       | 20               | 700                 | 1940     | 1940.2       | -                | -                   | -     | 14.26                                 | 14.26                             |       |      |       |       |
| CA_2A-2A-30A       | LTE B30  | 5            | 27710        | 2310 | QPSK       | 1                | 0                | 9820                | 2355     | LTE B2       | 20               | 900                 | 1960     | LTE B2       | 20               | 700                 | 1940     | LTE B5       | 10               | 2525                | 881.5 | -                                     | 14.24                             | 14.26 |      |       |       |
| CA_2A-2A-12A-30A   | LTE B30  | 10           | 27710        | 2310 | QPSK       | 1                | 0                | 9820                | 2355     | LTE B2       | 20               | 900                 | 1960     | LTE B2       | 20               | 700                 | 1940     | LTE B12      | 10               | 5095                | 737.5 | -                                     | 14.26                             | 14.26 |      |       |       |
| CA_2A-2A-25A-30A   | LTE B30  | 10           | 27710        | 2310 | QPSK       | 1                | 0                | 9820                | 2355     | LTE B2       | 20               | 900                 | 1960     | LTE B2       | 20               | 700                 | 1940     | LTE B29      | 10               | 8715                | 722.5 | -                                     | 14.28                             | 14.28 |      |       |       |
| CA_2A-2A-30A-66A   | LTE B30  | 10           | 27710        | 2310 | QPSK       | 1                | 0                | 9820                | 2355     | LTE B2       | 20               | 900                 | 1960     | LTE B2       | 20               | 700                 | 1940     | LTE B66      | 20               | 66786               | 2145  | -                                     | 14.28                             | 14.28 |      |       |       |
| CA_2A-4A-30A       | LTE B30  | 10           | 27710        | 2310 | QPSK       | 1                | 0                | 9820                | 2355     | LTE B2       | 20               | 900                 | 1960     | LTE B4       | 20               | 2175                | 2132.5   | LTE B5       | 10               | 2525                | 881.5 | -                                     | 14.26                             | 14.28 |      |       |       |
| CA_2A-4A-12A-30A   | LTE B30  | 10           | 27710        | 2310 | QPSK       | 1                | 0                | 9820                | 2355     | LTE B2       | 20               | 900                 | 1960     | LTE B4       | 20               | 2175                | 2132.5   | LTE B12      | 10               | 5095                | 737.5 | -                                     | 14.23                             | 14.28 |      |       |       |
| CA_2A-4A-25A-30A   | LTE B30  | 10           | 27710        | 2310 | QPSK       | 1                | 0                | 9820                | 2355     | LTE B2       | 20               | 900                 | 1960     | LTE B4       | 20               | 2175                | 2132.5   | LTE B29      | 10               | 8715                | 722.5 | -                                     | 14.28                             | 14.28 |      |       |       |
| CA_2A-5A-30A-66A   | LTE B30  | 10           | 27710        | 2310 | QPSK       | 1                | 0                | 9820                | 2355     | LTE B2       | 20               | 900                 | 1960     | LTE B5       | 10               | 2525                | 881.5    | LTE B66      | 20               | 66786               | 2145  | -                                     | 14.27                             | 14.28 |      |       |       |
| CA_2A-12A-30A-66A  | LTE B30  | 10           | 27710        | 2310 | QPSK       | 1                | 0                | 9820                | 2355     | LTE B2       | 20               | 900                 | 1960     | LTE B12      | 10               | 5095                | 737.5    | LTE B66      | 20               | 66786               | 2145  | -                                     | 14.26                             | 14.28 |      |       |       |
| CA_2A-14A-30A-66A  | LTE B30  | 10           | 27710        | 2310 | QPSK       | 1                | 0                | 9820                | 2355     | LTE B2       | 20               | 900                 | 1960     | LTE B14      | 10               | 5330                | 763      | LTE B66      | 20               | 66786               | 2145  | -                                     | 14.28                             | 14.28 |      |       |       |
| CA_2A-25A-30A-66A  | LTE B30  | 10           | 27710        | 2310 | QPSK       | 1                | 0                | 9820                | 2355     | LTE B2       | 20               | 900                 | 1960     | LTE B29      | 10               | 8715                | 722.5    | LTE B66      | 20               | 66786               | 2145  | -                                     | 14.28                             | 14.28 |      |       |       |
| CA_4A-4A-30A-66A   | LTE B30  | 10           | 27710        | 2310 | QPSK       | 1                | 0                | 9820                | 2355     | LTE B4       | 20               | 2175                | 2132.5   | LTE B4       | 20               | 2150                | 2150     | LTE B5       | 10               | 2525                | 881.5 | -                                     | 14.21                             | 14.28 |      |       |       |
| CA_5A-30A-66A-66A  | LTE B30  | 10           | 27710        | 2310 | QPSK       | 1                | 0                | 9820                | 2355     | LTE B5       | 10               | 2525                | 881.5    | LTE B66      | 20               | 66786               | 2145     | LTE B66      | 20               | 67236               | 2190  | -                                     | 14.27                             | 14.28 |      |       |       |
| CA_12A-30A-66A-66A | LTE B30  | 10           | 27710        | 2310 | QPSK       | 1                | 0                | 9820                | 2355     | LTE B12      | 10               | 5095                | 737.5    | LTE B66      | 20               | 66786               | 2145     | LTE B66      | 20               | 67236               | 2190  | -                                     | 14.27                             | 14.28 |      |       |       |
| CA_14A-30A-66A-66A | LTE B30  | 10           | 27710        | 2310 | QPSK       | 1                | 0                | 9820                | 2355     | LTE B14      | 10               | 5330                | 763      | LTE B66      | 20               | 66786               | 2145     | LTE B66      | 20               | 67236               | 2190  | -                                     | 14.28                             | 14.28 |      |       |       |
| CA_2A-5B-30A-66A   | LTE B30  | 10           | 27710        | 2310 | QPSK       | 1                | 0                | 9820                | 2355     | LTE B5       | 20               | 900                 | 1960     | LTE B5       | 10               | 2525                | 881.5    | LTE B66      | 20               | 66786               | 2145  | -                                     | 14.27                             | 14.28 |      |       |       |
| CA_5B-30A-66A-66A  | LTE B30  | 10           | 27710        | 2310 | QPSK       | 1                | 0                | 9820                | 2355     | LTE B5       | 10               | 2525                | 881.5    | LTE B5       | 5                | 2463                | 874.3    | LTE B66      | 20               | 66786               | 2145  | LTE B66                               | 20                                | 67236 | 2190 | 14.28 | 14.28 |

Table 32  
Output Powers – Ant 2B

| Combination        | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC  |           |                  |                  | SCC 1                |          |              |                  | SCC 2                |          |              |                  | SCC 3                |          |              |                  | Power                |                                       |                                   |       |       |
|--------------------|----------|--------------|--------------|------|-----------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|-------|-------|
|                    |          |              |              | Mod. | PCC UL RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |       |
| CA_2C-30A          | LTE B30  | 5            | 27710        | 2310 | 64QAM     | 1                | 24               | 9820                 | 2355     | LTE B2       | 20               | 900                  | 1960     | LTE B2       | 20               | 700                  | 1940     | 1940.2       | -                | -                    | -                                     | 14.20                             | 14.20 |       |
| CA_2A-2A-30A       | LTE B30  | 5            | 27710        | 2310 | 64QAM     | 1                | 24               | 9820                 | 2355     | LTE B2       | 20               | 900                  | 1960     | LTE B2       | 20               | 700                  | 1940     | LTE B5       | 10               | 2525                 | 881.5                                 | -                                 | 14.03 | 14.20 |
| CA_2A-2A-12A-30A   | LTE B30  | 5            | 27710        | 2310 | 64QAM     | 1                | 24               | 9820                 | 2355     | LTE B2       | 20               | 900                  | 1960     | LTE B2       | 20               | 700                  | 1940     | LTE B12      | 10               | 5095                 | 737.5                                 | -                                 | 14.04 | 14.20 |
| CA_2A-2A-25A-30A   | LTE B30  | 5            | 27710        | 2310 | 64QAM     | 1                | 24               | 9820                 | 2355     | LTE B2       | 20               | 900                  | 1960     | LTE B2       | 20               | 700                  | 1940     | LTE B29      | 10               | 8715                 | 722.5                                 | -                                 | 14.10 | 14.20 |
| CA_2A-2A-30A-66A   | LTE B30  | 5            | 27710        | 2310 | 64QAM     | 1                | 24               | 9820                 | 2355     | LTE B2       | 20               | 900                  | 1960     | LTE B2       | 20               | 700                  | 1940     | LTE B66      | 20               | 66786                | 2145                                  | -                                 | 14.13 | 14.20 |
| CA_2A-4A-30A       | LTE B30  | 5            | 27710        | 2310 | 64QAM     | 1                | 24               | 9820                 | 2355     | LTE B2       | 20               | 900                  | 1960     | LTE B4       | 20               | 2175                 | 2132.5   | LTE B5       | 10               | 2525                 | 881.5                                 | -                                 | 14.05 | 14.20 |
| CA_2A-4A-12A-30A   | LTE B30  | 5            | 27710        | 2310 | 64QAM     | 1                | 24               | 9820                 | 2355     | LTE B2       | 20               | 900                  | 1960     | LTE B4       | 20               | 2175                 | 2132.5   | LTE B12      | 10               | 5095                 | 737.5                                 | -                                 | 14.05 | 14.20 |
| CA_2A-4A-25A-30A   | LTE B30  | 5            | 27710        | 2310 | 64QAM     | 1                | 24               | 9820                 | 2355     | LTE B2       | 20               | 900                  | 1960     | LTE B4       | 20               | 2175                 | 2132.5   | LTE B29      | 10               | 8715                 | 722.5                                 | -                                 | 14.10 | 14.20 |
| CA_2A-5A-30A-66A   | LTE B30  | 5            | 27710        | 2310 | 64QAM     | 1                | 24               | 9820                 | 2355     | LTE B2       | 20               | 900                  | 1960     | LTE B5       | 10               | 2525                 | 881.5    | LTE B66      | 20               | 66786                | 2145                                  | -                                 | 14.09 | 14.20 |
| CA_2A-12A-30A-66A  | LTE B30  | 5            | 27710        | 2310 | 64QAM     | 1                | 24               | 9820                 | 2355     | LTE B2       | 20               | 900                  | 1960     | LTE B12      | 10               | 5095                 | 737.5    | LTE B66      | 20               | 66786                | 2145                                  | -                                 | 14.14 | 14.20 |
| CA_2A-14A-30A-66A  | LTE B30  | 5            | 27710        | 2310 | 64QAM     | 1                | 24               | 9820                 | 2355     | LTE B2       | 20               | 900                  | 1960     | LTE B14      | 10               | 5330                 | 763      | LTE B66      | 20               | 66786                | 2145                                  | -                                 | 14.08 | 14.20 |
| CA_2A-25A-30A-66A  | LTE B30  | 5            | 27710        | 2310 | 64QAM     | 1                | 24               | 9820                 | 2355     | LTE B2       | 20               | 900                  | 1960     | LTE B29      | 10               | 8715                 | 722.5    | LTE B66      | 20               | 66786                | 2145                                  | -                                 | 14.07 | 14.20 |
| CA_2A-30A-66A      | LTE B30  | 5            | 27710        | 2310 | 64QAM     | 1                | 24               | 9820                 | 2355     | LTE B2       | 20               | 900                  | 1960     | LTE B66      | 20               | 66786                | 2145     | LTE B66      | 20               | 66786                | 2145                                  | -                                 | 14.09 | 14.20 |
| CA_4A-12A-30A      | LTE B30  | 5            | 27710        | 2310 | 64QAM     | 1                | 24               | 9820                 | 2355     | LTE B4       | 20               | 2175                 | 2132.5   | LTE B4       | 20               | 2150                 | 2150     | LTE B12      | 10               | 5095                 | 737.5                                 | -                                 | 14.02 | 14.20 |
| CA_4A-30A-66A      | LTE B30  | 5            | 27710        | 2310 | 64QAM     | 1                | 24               | 9820                 | 2355     | LTE B5       | 10               | 2525                 | 881.5    | LTE B66      | 20               | 66786                | 2145     | LTE B66      | 20               | 66786                | 2145                                  | -                                 | 14.04 | 14.20 |
| CA_12A-30A-66A     | LTE B30  | 5            | 27710        | 2310 | 64QAM     | 1                | 24               | 9820                 | 2355     | LTE B12      | 10               | 5095                 | 737.5    | LTE B66      | 20               | 66786                | 2145     | LTE B66      | 20               | 66786                | 2145                                  | -                                 | 14.04 | 14.20 |
| CA_14A-30A-66A-66A | LTE B30  | 5            | 27710        | 2310 | 64QAM     | 1                | 24               | 9820                 | 2355     | LTE B14      | 10               | 5330                 | 763      | LTE B66      | 20               | 66786                | 2145     | LTE B66      | 20               | 66786                | 2145                                  | -                                 | 14.11 | 14.20 |
| CA_25A-30A-66A     | LTE B30  | 5            | 27710        | 2310 | 64QAM     | 1                | 24               | 9820                 | 2355     | LTE B29      | 10               | 8715                 | 722.5    | LTE B66      | 20               | 66786                | 2145     | LTE B66      | 20               | 66786                | 2145                                  | -                                 | 14.05 | 14.20 |
| CA_30A-66A         | LTE B30  | 5            | 27710        | 2310 | 64QAM     | 1                | 24               | 9820                 | 2355     | LTE B66      | 20               | 66786                | 2145     | LTE B66      | 20               | 66786                | 2145     | LTE B66      | 20               | 66786                | 2145                                  | -                                 | 14.04 | 14.20 |

| Combination        | PCB Band | PCC          |             |                      |      |                  | SSC 1            |                      |              |                  | SSC 2                |          |              |                  | SSC 3                |          |              |                  | SSC 4                |          |              |                  | Power                |                               |                                   |
|--------------------|----------|--------------|-------------|----------------------|------|------------------|------------------|----------------------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|-------------------------------|-----------------------------------|
|                    |          | PCB BW [MHz] | PCC [UL] CH | PCC [DL] Freq. [MHz] | Mod. | PCC UL RR Offset | PCC [DL] Channel | PCC [DL] Freq. [MHz] | SSC BW [MHz] | SSC [DL] Channel | SSC [DL] Freq. [MHz] | SSC Band | SSC BW [MHz] | SSC [DL] Channel | SSC [DL] Freq. [MHz] | SSC Band | SSC BW [MHz] | SSC [DL] Channel | SSC [DL] Freq. [MHz] | SSC Band | SSC BW [MHz] | SSC [DL] Channel | SSC [DL] Freq. [MHz] | LTE Tx Power with Enab. (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA 1C-30A          | LTE E80  | 10           | -           | -                    | -    | 0                | 9620             | 2355                 | LTE E82      | 20               | 900                  | 1960     | LTE E82      | 20               | 700                  | 1960     | 2            | 2325             | 881.5                | -        | -            | -                | -                    | 14.08                         | 14.10                             |
| CA 2A-2A-30A       | LTE E80  | 10           | 27710       | 2310                 | QPSK | 1                | 0                | 9620                 | 2355         | LTE E82          | 20                   | 900      | 1960         | LTE E82          | 20                   | 700      | 1940         | LTE B5           | 10                   | 2525     | 881.5        | -                | -                    | 14.08                         | 14.10                             |
| CA 2A-2A-30A-66A   | LTE E80  | 10           | 27710       | 2310                 | QPSK | 1                | 0                | 9620                 | 2355         | LTE E82          | 20                   | 900      | 1960         | LTE E82          | 20                   | 700      | 1940         | LTE B12          | 10                   | 5095     | 737.5        | -                | -                    | 14.08                         | 14.10                             |
| CA 2A-2A-30A-66A   | LTE E80  | 10           | 27710       | 2310                 | QPSK | 1                | 0                | 9620                 | 2355         | LTE E82          | 20                   | 900      | 1960         | LTE E82          | 20                   | 700      | 1940         | LTE B5           | 10                   | 9715     | 722.5        | -                | -                    | 14.08                         | 14.10                             |
| CA 2A-2A-30A-66A   | LTE E80  | 10           | 27710       | 2310                 | QPSK | 1                | 0                | 9620                 | 2355         | LTE E82          | 20                   | 900      | 1960         | LTE E82          | 20                   | 700      | 1940         | LTE B66          | 20                   | 66786    | 2145         | -                | -                    | 14.08                         | 14.10                             |
| CA 2A-2A-30A-66A   | LTE E80  | 10           | 27710       | 2310                 | QPSK | 1                | 0                | 9620                 | 2355         | LTE E82          | 20                   | 900      | 1960         | LTE E84          | 20                   | 2175     | 2132.5       | LTE B5           | 10                   | 2525     | 881.5        | -                | -                    | 14.08                         | 14.10                             |
| CA 2A-2A-30A-66A   | LTE E80  | 10           | 27710       | 2310                 | QPSK | 1                | 0                | 9620                 | 2355         | LTE E82          | 20                   | 900      | 1960         | LTE E84          | 20                   | 2175     | 2132.5       | LTE B12          | 10                   | 5095     | 737.5        | -                | -                    | 14.08                         | 14.10                             |
| CA 2A-2A-30A-66A   | LTE E80  | 10           | 27710       | 2310                 | QPSK | 1                | 0                | 9620                 | 2355         | LTE E82          | 20                   | 900      | 1960         | LTE E84          | 20                   | 2175     | 2132.5       | LTE B12          | 10                   | 9715     | 722.5        | -                | -                    | 14.07                         | 14.10                             |
| CA 2A-2A-30A-66A   | LTE E80  | 10           | 27710       | 2310                 | QPSK | 1                | 0                | 9620                 | 2355         | LTE E82          | 20                   | 900      | 1960         | LTE B5           | 10                   | 2525     | 881.5        | LTE B66          | 20                   | 66786    | 2145         | -                | -                    | 14.07                         | 14.10                             |
| CA 2A-2A-30A-66A   | LTE E80  | 10           | 27710       | 2310                 | QPSK | 1                | 0                | 9620                 | 2355         | LTE E82          | 20                   | 900      | 1960         | LTE B5           | 10                   | 737.5    | LTE B66      | 20               | 66786                | 2145     | -            | -                | 14.07                | 14.10                         |                                   |
| CA 2A-2A-30A-66A   | LTE E80  | 10           | 27710       | 2310                 | QPSK | 1                | 0                | 9620                 | 2355         | LTE E82          | 20                   | 900      | 1960         | LTE B14          | 10                   | 5330     | 763          | LTE B66          | 20                   | 66786    | 2145         | -                | -                    | 14.05                         | 14.10                             |
| CA 2A-2A-30A-66A   | LTE E80  | 10           | 27710       | 2310                 | QPSK | 1                | 0                | 9620                 | 2355         | LTE E82          | 20                   | 900      | 1960         | LTE E82          | 20                   | 5193.5   | 722.5        | LTE B66          | 20                   | 66786    | 2145         | -                | -                    | 14.05                         | 14.10                             |
| CA 2A-2A-30A-66A   | LTE E80  | 10           | 27710       | 2310                 | QPSK | 1                | 0                | 9620                 | 2355         | LTE E82          | 20                   | 900      | 1960         | LTE E84          | 20                   | 2175     | 2132.5       | LTE B5           | 10                   | 5095     | 737.5        | -                | -                    | 14.05                         | 14.10                             |
| CA 4A-4A-12A-30A   | LTE E80  | 10           | 27710       | 2310                 | QPSK | 1                | 0                | 9620                 | 2355         | LTE E84          | 20                   | 2175     | 2132.5       | LTE B4           | 10                   | 2350     | 2350         | LTE B12          | 10                   | 5095     | 737.5        | -                | -                    | 14.06                         | 14.10                             |
| CA 4A-4A-12A-30A   | LTE E80  | 10           | 27710       | 2310                 | QPSK | 1                | 0                | 9620                 | 2355         | LTE E84          | 20                   | 2175     | 2132.5       | LTE B66          | 20                   | 66786    | 2145         | LTE B66          | 20                   | 66786    | 2145         | -                | -                    | 14.06                         | 14.10                             |
| CA 4A-4A-12A-30A   | LTE E80  | 10           | 27710       | 2310                 | QPSK | 1                | 0                | 9620                 | 2355         | LTE E84          | 20                   | 2175     | 2132.5       | LTE B66          | 20                   | 66786    | 2145         | LTE B66          | 20                   | 66786    | 2145         | -                | -                    | 14.06                         | 14.10                             |
| CA 12A-30A-66A-66A | LTE E80  | 10           | 27710       | 2310                 | QPSK | 1                | 0                | 9620                 | 2355         | LTE B12          | 10                   | 5095     | 737.5        | LTE B66          | 20                   | 66786    | 2145         | LTE B66          | 20                   | 67326    | 2100         | -                | -                    | 14.09                         | 14.10                             |
| CA 12A-30A-66A-66A | LTE E80  | 10           | 27710       | 2310                 | QPSK | 1                | 0                | 9620                 | 2355         | LTE B14          | 10                   | 5330     | 763          | LTE B66          | 20                   | 66786    | 2145         | LTE B66          | 20                   | 67326    | 2100         | -                | -                    | 14.07                         | 14.10                             |
| CA 2A-2A-30A-66A   | LTE E80  | 10           | 27710       | 2310                 | QPSK | 1                | 0                | 9620                 | 2355         | LTE E82          | 20                   | 900      | 1960         | LTE B5           | 10                   | 2525     | 881.5        | LTE B66          | 20                   | 66786    | 2145         | -                | -                    | 14.07                         | 14.10                             |
| CA 3B-30A-66A-66A  | LTE E80  | 10           | 27710       | 2310                 | QPSK | 1                | 0                | 9620                 | 2355         | LTE B5           | 10                   | 2525     | 881.5        | LTE B5           | 10                   | 24586    | 24586        | LTE B66          | 20                   | 66786    | 2100         | -                | -                    | 14.07                         | 14.10                             |

| Combination          | PCB Band | PCC          |              |                       |      |            |                  |              |                       |          |              | SSC 1            |                      |          |              | SSC 2            |                      |          |              | SSC 3            |                      |          |              | SSC 4            |                      |                                    |                                   | Power |       |
|----------------------|----------|--------------|--------------|-----------------------|------|------------|------------------|--------------|-----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|------------------------------------|-----------------------------------|-------|-------|
|                      |          | PCB BW [MHz] | PCCL [LH] Ch | PCCL [UL] Freq. [MHz] | Mod. | PCC LRR BB | PCC UL RB Offset | PCCL Channel | PCCL [DL] Freq. [MHz] | SSC Band | SSC BW [MHz] | SSC [DL] Channel | SSC [DL] Freq. [MHz] | SSC Band | SSC BW [MHz] | SSC [DL] Channel | SSC [DL] Freq. [MHz] | SSC Band | SSC BW [MHz] | SSC [DL] Channel | SSC [DL] Freq. [MHz] | SSC Band | SSC BW [MHz] | SSC [DL] Channel | SSC [DL] Freq. [MHz] | LTE Tx Power with CA Enabled [dBm] | LTE Single Carrier Tx Power [dBm] |       |       |
| CA 2C-30A            | LTE 830  | 10           | 27710        | 2310                  | QPSK | 1          | 0                | 9820         | 2355                  | LTE 82   | 20           | 900              | 1960                 | LTE 82   | 20           | 750              | 1960                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                  | -                                 | 13.50 | 13.50 |
| CA 2A-2A-30A         | LTE 830  | 10           | 27710        | 2310                  | QPSK | 1          | 0                | 9820         | 2355                  | LTE 82   | 20           | 900              | 1960                 | LTE 82   | 20           | 700              | 1940                 | LTE B5   | 10           | 2525             | 881.5                | -        | -            | -                | -                    | -                                  | -                                 | 13.50 | 13.50 |
| CA 2A-2A-30A         | LTE 830  | 10           | 27710        | 2310                  | QPSK | 1          | 0                | 9820         | 2355                  | LTE 82   | 20           | 900              | 1960                 | LTE 82   | 20           | 700              | 1940                 | LTE B12  | 10           | 5095             | 797.5                | -        | -            | -                | -                    | -                                  | -                                 | 13.50 | 13.50 |
| CA 2A-2A-30A         | LTE 830  | 10           | 27710        | 2310                  | QPSK | 1          | 0                | 9820         | 2355                  | LTE 82   | 20           | 900              | 1960                 | LTE 82   | 20           | 700              | 1940                 | LTE B12  | 10           | 5095             | 797.5                | -        | -            | -                | -                    | -                                  | -                                 | 13.50 | 13.50 |
| CA 2A-2A-30A-66A     | LTE 830  | 10           | 27710        | 2310                  | QPSK | 1          | 0                | 9820         | 2355                  | LTE 82   | 20           | 900              | 1960                 | LTE 82   | 20           | 700              | 1940                 | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -                                  | -                                 | 14.46 | 13.50 |
| CA 2A-4A-30A         | LTE 830  | 10           | 27710        | 2310                  | QPSK | 1          | 0                | 9820         | 2355                  | LTE 82   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2123.5               | LTE B5   | 10           | 2525             | 881.5                | -        | -            | -                | -                    | -                                  | -                                 | 13.49 | 13.50 |
| CA 2A-4A-30A-66A     | LTE 830  | 10           | 27710        | 2310                  | QPSK | 1          | 0                | 9820         | 2355                  | LTE 82   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2123.5               | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -                                  | -                                 | 14.46 | 13.50 |
| CA 2A-4A-29A-30A     | LTE 830  | 10           | 27710        | 2310                  | QPSK | 1          | 0                | 9820         | 2355                  | LTE 82   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2123.5               | LTE B29  | 10           | 9715             | 722.5                | -        | -            | -                | -                    | -                                  | -                                 | 13.50 | 13.50 |
| CA 2A-4A-29A-30A-66A | LTE 830  | 10           | 27710        | 2310                  | QPSK | 1          | 0                | 9820         | 2355                  | LTE 82   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2123.5               | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -                                  | -                                 | 14.46 | 13.50 |
| CA 2A-12A-30A-66A    | LTE 830  | 10           | 27710        | 2310                  | QPSK | 1          | 0                | 9820         | 2355                  | LTE 82   | 20           | 900              | 1960                 | LTE B2   | 20           | 717.5            | 1786                 | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -                                  | -                                 | 13.50 | 13.50 |
| CA 2A-14A-30A-66A    | LTE 830  | 10           | 27710        | 2310                  | QPSK | 1          | 0                | 9820         | 2355                  | LTE 82   | 20           | 900              | 1960                 | LTE B14  | 10           | 5330             | 763                  | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -                                  | -                                 | 14.46 | 13.50 |
| CA 2A-24A-30A-66A    | LTE 830  | 10           | 27710        | 2310                  | QPSK | 1          | 0                | 9820         | 2355                  | LTE 82   | 20           | 900              | 1960                 | LTE B29  | 10           | 5175             | 722.5                | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -                                  | -                                 | 14.46 | 13.50 |
| CA 2A-24A-30A-66A    | LTE 830  | 10           | 27710        | 2310                  | QPSK | 1          | 0                | 9820         | 2355                  | LTE 82   | 20           | 900              | 1960                 | LTE B29  | 10           | 5175             | 722.5                | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -                                  | -                                 | 13.50 | 13.50 |
| CA 4A-12A-30A        | LTE 830  | 10           | 27710        | 2310                  | QPSK | 1          | 0                | 9820         | 2355                  | LTE B14  | 20           | 2175             | 2123.5               | LTE B4   | 10           | 2350             | 2150                 | LTE B12  | 10           | 5095             | 797.5                | -        | -            | -                | -                    | -                                  | -                                 | 14.44 | 13.50 |
| CA 12A-30A-66A       | LTE 830  | 10           | 27710        | 2310                  | QPSK | 1          | 0                | 9820         | 2355                  | LTE B2   | 20           | 717.5            | 1786                 | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -                                  | -                                 | 13.50 | 13.50 |
| CA 12A-30A-66A       | LTE 830  | 10           | 27710        | 2310                  | QPSK | 1          | 0                | 9820         | 2355                  | LTE B12  | 10           | 5095             | 797.5                | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -                                  | -                                 | 13.45 | 13.50 |
| CA 14A-30A-66A       | LTE 830  | 10           | 27710        | 2310                  | QPSK | 1          | 0                | 9820         | 2355                  | LTE B14  | 10           | 5330             | 763                  | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -                                  | -                                 | 13.49 | 13.50 |
| CA 24A-30A-66A       | LTE 830  | 10           | 27710        | 2310                  | QPSK | 1          | 0                | 9820         | 2355                  | LTE B29  | 10           | 5175             | 722.5                | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -                                  | -                                 | 13.49 | 13.50 |
| CA 30A-30A-66A       | LTE 830  | 10           | 27710        | 2310                  | QPSK | 1          | 0                | 9820         | 2355                  | LTE B5   | 10           | 2525             | 881.5                | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -                                  | -                                 | 13.50 | 13.50 |

### 1.3.13 LTE Band 7 as PCC

| Combination      | PCC      |              |              |                      |       |           |                  |                  |                      |          | SCC 1        |                  |                      |          | SCC 2        |                  |                      |          | SCC 3        |                  |                      |                                       | Power                             |       |
|------------------|----------|--------------|--------------|----------------------|-------|-----------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|-------|
|                  | PCC Band | PCC BW [MHz] | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | Mod.  | PCC UL RB | PCC UL RB Offset | PCC [DL] Channel | PCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |
| CA 5A-7A         | LTE B7   | 20           | 20R80        | 2510                 | QPSK  | 1         | 0                | 2850             | 2630                 | LTE B5   | 10           | 2525             | 2881.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 14.07                             | 14.10 |
| CA 2B            | LTE B7   | 15           | 21100        | 2535                 | 64QAM | 1         | 36               | 3100             | 2655                 | LTE B7   | 5            | 3007             | 2661.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 14.07                             | 14.10 |
| CA 7A (1)        | LTE B7   | 20           | 20R80        | 2510                 | QPSK  | 1         | 0                | 2850             | 2630                 | LTE B7   | 20           | 3048             | 2649.8               | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 14.08                             | 14.10 |
| CA 7A-66A (1)    | LTE B7   | 20           | 20R80        | 2510                 | QPSK  | 1         | 0                | 2850             | 2630                 | LTE B46  | 20           | 50665            | 5537.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 14.10                             | 14.10 |
| CA 7A-66A        | LTE B7   | 20           | 20R80        | 2510                 | QPSK  | 1         | 0                | 2850             | 2630                 | LTE B46  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 14.10                             | 14.10 |
| CA 4A-4A-7A (1)  | LTE B7   | 20           | 20R80        | 2510                 | QPSK  | 1         | 0                | 2850             | 2630                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 10           | 2350             | 2150                 | -        | -            | -                | -                    | -                                     | 14.08                             | 14.10 |
| CA 4A-7A (1)     | LTE B7   | 20           | 20R80        | 2510                 | QPSK  | 1         | 0                | 2850             | 2630                 | LTE B7   | 20           | 3350             | 2680                 | LTE B4   | 20           | 2375             | 2132.5               | -        | -            | -                | -                    | -                                     | 14.07                             | 14.10 |
| CA 4A-7A-12A (1) | LTE B7   | 20           | 20R80        | 2510                 | QPSK  | 1         | 0                | 2850             | 2630                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 20           | 5096             | 5537.5               | -        | -            | -                | -                    | -                                     | 14.07                             | 14.10 |
| CA 7A-66C (1)    | LTE B7   | 20           | 20R80        | 2510                 | QPSK  | 1         | 0                | 2850             | 2630                 | LTE B46  | 20           | 50665            | 5537.5               | LTE B46  | 20           | 50467            | 5517.7               | -        | -            | -                | -                    | -                                     | 14.10                             | 14.10 |
| CA 7A-46D (1)    | LTE B7   | 20           | 20R80        | 2510                 | QPSK  | 1         | 0                | 2850             | 2630                 | LTE B46  | 20           | 50467            | 5537.5               | LTE B46  | 20           | 50467            | 5517.7               | LTE B46  | 20           | 50663            | 5557.3               | 14.08                                 | 14.10                             |       |

| Combination     | PCC      |              |                      |        |            |                   |                  |                      |          |              | SCC 1            |                      |          |              | SCC 2            |                      |          |              | SCC 3            |                      |                       |                                   | Power |  |
|-----------------|----------|--------------|----------------------|--------|------------|-------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|-----------------------|-----------------------------------|-------|--|
|                 | PCC Band | PCC BW [MHz] | PCC [UL] Freq. [MHz] | Mod.   | PCC UL# RB | PCC UL# RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DCA | LTE Single Carrier Tx Power (dBm) |       |  |
| CA 5A-7A        | LTE B7   | 20           | 20850                | 2510   | 64QAM      | 1                 | 99               | 2850                 | 2630     | LTE B5       | 10               | 2525                 | 881.5    | -            | -                | -                    | -        | -            | -                | -                    | 12.98                 | 13.00                             |       |  |
| CA 7B           | LTE B7   | 15           | 20850                | 2507.5 | QPSK       | 1                 | 36               | 2825                 | 2627.5   | LTE B7       | 5                | 2918                 | 2636.38  | -            | -                | -                    | -        | -            | -                | -                    | 13.00                 | 13.00                             |       |  |
| CA 2C-4C        | LTE B7   | 20           | 20850                | 2510   | 64QAM      | 1                 | 99               | 2850                 | 2630     | -            | -                | -                    | -        | 2048         | 2636.88          | -                    | -        | -            | -                | -                    | 12.97                 | 13.00                             |       |  |
| CA 7A-6A(1)     | LTE B7   | 20           | 20850                | 2510   | 64QAM      | 1                 | 99               | 2850                 | 2630     | LTE B46      | 20               | 50665                | 5537.5   | -            | -                | -                    | -        | -            | -                | -                    | 13.00                 | 13.00                             |       |  |
| CA 7A-6A        | LTE B7   | 20           | 20850                | 2510   | 64QAM      | 1                 | 99               | 2850                 | 2630     | LTE B66      | 20               | 66786                | 2145     | -            | -                | -                    | -        | -            | -                | -                    | 12.98                 | 13.00                             |       |  |
| CA 4A-4A-7A(1)  | LTE B7   | 20           | 20850                | 2510   | 64QAM      | 1                 | 99               | 2850                 | 2630     | LTE B4       | 20               | 2175                 | 2132.5   | LTE B4       | 10               | 2350                 | 2150     | -            | -                | -                    | 12.78                 | 13.00                             |       |  |
| CA 4A-7A        | LTE B7   | 20           | 20850                | 2510   | 64QAM      | 1                 | 99               | 2850                 | 2630     | LTE B4       | 20               | 3350                 | 2680     | LTE B4       | 20               | 2175                 | 2132.5   | -            | -                | -                    | 12.73                 | 13.00                             |       |  |
| CA 4A-7A-12A(1) | LTE B7   | 20           | 20850                | 2510   | 64QAM      | 1                 | 99               | 2850                 | 2630     | LTE B4       | 20               | 2175                 | 2132.5   | LTE B12      | 10               | 2095                 | 237.5    | -            | -                | -                    | 12.98                 | 13.00                             |       |  |
| CA 7A-6C(1)     | LTE B7   | 20           | 20850                | 2510   | 64QAM      | 1                 | 99               | 2850                 | 2630     | LTE B46      | 20               | 50665                | 5537.5   | LTE B46      | 20               | 50667                | 5517.7   | -            | -                | -                    | 12.79                 | 13.00                             |       |  |
| CA 7A-4D(1)     | LTE B7   | 20           | 20850                | 2510   | 64QAM      | 1                 | 99               | 2850                 | 2630     | LTE B46      | 20               | 50665                | 5537.5   | LTE B46      | 20               | 50667                | 5517.7   | LTE B46      | 20               | 50663                | 5557.3                | 12.83                             | 13.00 |  |

| Combination      | PCC      |              |              |                      |       |            |                   |                  |                      |          | SCC 1        |                  |                      | SCC 2    |              |                  | SCC 3                |          |              | Power            |                      |                                       |                             |       |       |
|------------------|----------|--------------|--------------|----------------------|-------|------------|-------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------|-------|-------|
|                  | PCC Band | PCC BW [MHz] | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | Mod.  | PCC UL# RB | PCC UL# RB Offset | PCC [DL] Channel | PCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Channel | SCC [DL] Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx (dBm) |       |       |
| CA 5A-7A         | LTE B7   | 10           | 20800        | 2505                 | QPSK  | 1          | 49                | 2800             | 2625                 | LTE B5   | 10           | 2525             | 881.5                | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 14.30                       | 14.30 |       |
| CA 7B            | LTE B7   | 15           | 20825        | 2507.5               | 64QAM | 1          | 0                 | 2825             | 2627.5               | LTE B7   | 5            | 2918             | 2656.8               | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 14.27                       | 14.28 |       |
| CA 7C (1)        | LTE B7   | 10           | 20800        | 2505                 | QPSK  | 1          | 49                | 2800             | 2625                 | LTE B7   | 20           | 2844             | 2659.4               | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 14.30                       | 14.30 |       |
| CA 7A-46A (1)    | LTE B7   | 10           | 20800        | 2505                 | QPSK  | 1          | 49                | 2800             | 2625                 | LTE B46  | 20           | 50605            | 5537.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 14.01                       | 14.30 |       |
| CA 7A-66A        | LTE B7   | 10           | 20800        | 2505                 | QPSK  | 1          | 49                | 2800             | 2625                 | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                     | 13.99                       | 14.30 |       |
| CA 4A-4A-7A (1)  | LTE B7   | 10           | 20800        | 2505                 | QPSK  | 1          | 49                | 2800             | 2625                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 10           | 2350             | 2150                 | -        | -            | -                | -                    | -                                     | -                           | 14.07 | 14.30 |
| CA 4A-7A (1)     | LTE B7   | 10           | 20800        | 2505                 | QPSK  | 1          | 49                | 2800             | 2625                 | LTE B7   | 20           | 3350             | 2680                 | LTE B4   | 20           | 2375             | 2132.5               | -        | -            | -                | -                    | -                                     | -                           | 14.12 | 14.30 |
| CA 4A-7A-12A (1) | LTE B7   | 10           | 20800        | 2505                 | QPSK  | 1          | 49                | 2800             | 2625                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 20           | 5096             | 5537.5               | -        | -            | -                | -                    | -                                     | -                           | 14.11 | 14.30 |
| CA 7A-66C (1)    | LTE B7   | 10           | 20800        | 2505                 | QPSK  | 1          | 49                | 2800             | 2625                 | LTE B46  | 20           | 50605            | 5537.5               | LTE B46  | 20           | 50467            | 5517.7               | -        | -            | -                | -                    | -                                     | -                           | 14.28 | 14.30 |
| CA 7A-46D (1)    | LTE B7   | 10           | 20800        | 2505                 | QPSK  | 1          | 49                | 2800             | 2625                 | LTE B46  | 20           | 50605            | 5537.5               | LTE B46  | 20           | 50467            | 5517.7               | LTE B46  | 20           | 50863            | 5557.3               | 14.28                                 | 14.30                       |       |       |

|                                           |                                                                                                                                                             |                              |                                 |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|
| FCC ID: BCGA2014                          |  <b>PCTEST</b><br><small>PRODIGY COMMUNICATIONS LABORATORY, INC.</small> | SAR EVALUATION REPORT        | Reviewed by:<br>Quality Manager |
| <b>Test Dates:</b><br>09/06/18 – 09/21/18 | <b>DUT Type:</b><br>Tablet Device                                                                                                                           | APPENDIX H:<br>Page 14 of 39 |                                 |

**Table 38**  
**Output Powers – Ant 4B**

| Combination      | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC                  |       |           |                  | SCC 1            |                      |          |              | SCC 2            |                      |          |              | SCC 3            |                      |          |              | Power            |                      |                                       |                                   |
|------------------|----------|--------------|--------------|----------------------|-------|-----------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|
|                  |          |              |              | PCC (UL) Freq. [MHz] | Mod.  | PCC UL RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA 5A-7A         | LTE B7   | 20           | 20850        | 2510                 | 16QAM | 1         | 50               | 2850             | 2630                 | LTE B5   | 10           | 2525             | 881.5                | -        | -            | -                | -                    | -        | -            | -                | -                    | 12.23                                 | 12.30                             |
| CA 7B            | LTE B7   | 15           | 21100        | 2535                 | QPSK  | 1         | 0                | 3100             | 2655                 | LTE B7   | 5            | 3007             | 2645.7               | -        | -            | -                | -                    | -        | -            | -                | -                    | 12.29                                 | 12.30                             |
| CA 7C (1)        | LTE B7   | 20           | 20850        | 2510                 | 16QAM | 1         | 50               | 2850             | 2630                 | LTE B7   | 20           | 3048             | 2649.8               | -        | -            | -                | -                    | -        | -            | -                | -                    | 12.30                                 | 12.30                             |
| CA 7A-6A (1)     | LTE B7   | 20           | 20850        | 2510                 | 16QAM | 1         | 50               | 2850             | 2630                 | LTE B46  | 20           | 50665            | 5537.5               | -        | -            | -                | -                    | -        | -            | -                | -                    | 12.27                                 | 12.30                             |
| CA 7A-6A         | LTE B7   | 20           | 20850        | 2510                 | 16QAM | 1         | 50               | 2850             | 2630                 | LTE B66  | 20           | 66786            | 2345                 | -        | -            | -                | -                    | -        | -            | -                | -                    | 12.28                                 | 12.30                             |
| CA 4A-4A-7A (1)  | LTE B7   | 20           | 20850        | 2510                 | 16QAM | 1         | 50               | 2850             | 2630                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B4   | 10           | 2350             | 2150                 | -        | -            | -                | -                    | 12.08                                 | 12.30                             |
| CA 4A-7A-7A      | LTE B7   | 20           | 20850        | 2510                 | 16QAM | 1         | 50               | 2850             | 2630                 | LTE B7   | 20           | 3350             | 2680                 | LTE B4   | 20           | 2175             | 2132.5               | -        | -            | -                | -                    | 12.07                                 | 12.30                             |
| CA 4A-7A-12A (1) | LTE B7   | 20           | 20850        | 2510                 | 16QAM | 1         | 50               | 2850             | 2630                 | LTE B4   | 20           | 2175             | 2132.5               | LTE B12  | 10           | 5095             | 737.5                | -        | -            | -                | -                    | 12.10                                 | 12.30                             |
| CA 7A-6C (1)     | LTE B7   | 20           | 20850        | 2510                 | 16QAM | 1         | 50               | 2850             | 2630                 | LTE B46  | 20           | 50665            | 5537.5               | LTE B46  | 20           | 50467            | 5517.7               | -        | -            | -                | -                    | 12.05                                 | 12.30                             |
| CA 7A-4E (1)     | LTE B7   | 20           | 20850        | 2510                 | 16QAM | 1         | 50               | 2850             | 2630                 | LTE B46  | 20           | 50665            | 5537.5               | LTE B46  | 20           | 50467            | 5517.7               | LTE B46  | 20           | 50863            | 5557.3               | 12.30                                 | 12.30                             |

## 1.3.14 LTE Band 41 as PCC

**Table 39**  
**Output Powers – Ant 2A**

| Combination    | PCC Band | PCC BW [MHz] | PCC          |                      |       |           | SCC 1            |                  |                      |          | SCC 2        |                  |                      |          | SCC 3        |                  |                      |          | SCC 4        |                  |                      |                                    | Power                             |       |      |       |       |
|----------------|----------|--------------|--------------|----------------------|-------|-----------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|------------------------------------|-----------------------------------|-------|------|-------|-------|
|                |          |              | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod.  | PCC UL RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |      |       |       |
| CA 41A-41A (1) | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1         | 99               | 40620            | 2593                 | LTE B41  | 20           | 39750            | 2506                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                  | 17.46                             | 17.50 |      |       |       |
| CA 41A-41C     | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1         | 99               | 40620            | 2593                 | LTE B41  | 20           | 41292            | 2660.2               | LTE B41  | 20           | 41490            | 2680                 | -        | -            | -                | -                    | -                                  | 17.47                             | 17.50 |      |       |       |
| CA 41C-41A     | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1         | 99               | 40620            | 2593                 | LTE B41  | 20           | 40818            | 2612.8               | LTE B41  | 20           | 41490            | 2680                 | -        | -            | -                | -                    | -                                  | 17.50                             | 17.50 |      |       |       |
| CA 41A-41D     | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1         | 99               | 40620            | 2593                 | LTE B41  | 20           | 41094            | 2640.4               | LTE B41  | 20           | 41292            | 2660.2               | LTE B41  | 20           | 41490            | 2680                 | -                                  | 17.50                             | 17.50 |      |       |       |
| CA 41C-41C     | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1         | 99               | 40620            | 2593                 | LTE B41  | 20           | 40422            | 2573.2               | LTE B41  | 20           | 41292            | 2660.2               | LTE B41  | 20           | 41490            | 2680                 | -                                  | 17.50                             | 17.50 |      |       |       |
| CA 41E         | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1         | 99               | 40620            | 2593                 | LTE B41  | 20           | 40422            | 2573.2               | LTE B41  | 20           | 40818            | 2612.8               | LTE B41  | 20           | 41016            | 2612.6               | -                                  | 17.49                             | 17.50 |      |       |       |
| CA 41D-41A     | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1         | 99               | 40620            | 2593                 | LTE B41  | 20           | 40422            | 2573.2               | LTE B41  | 20           | 40818            | 2612.8               | LTE B41  | 20           | 41490            | 2680                 | -                                  | 17.49                             | 17.50 |      |       |       |
| CA 41C-41D     | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1         | 99               | 40620            | 2593                 | LTE B41  | 20           | 40422            | 2573.2               | LTE B41  | 20           | 41094            | 2640.4               | LTE B41  | 20           | 41292            | 2660.2               | LTE B41                            | 20                                | 41490 | 2680 | 17.45 | 17.50 |
| CA 41D-41C     | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1         | 99               | 40620            | 2593                 | LTE B41  | 20           | 40422            | 2573.2               | LTE B41  | 20           | 40818            | 2612.8               | LTE B41  | 20           | 41292            | 2660.2               | LTE B41                            | 20                                | 41490 | 2680 | 17.50 | 17.50 |

**Table 40**  
**Output Powers – Ant 2B**

| Combination    | PCC Band | PCC BW [MHz] | PCC         |                      |      |           | SCC 1            |                  |                      |          | SCC 2        |                  |                      |          | SCC 3        |                  |                      |          | SCC 4        |                  |                      |                                    | Power                             |       |      |       |       |
|----------------|----------|--------------|-------------|----------------------|------|-----------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|------------------------------------|-----------------------------------|-------|------|-------|-------|
|                |          |              | PCC (UL) Ch | PCC (UL) Freq. [MHz] | Mod. | PCC UL RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |      |       |       |
| CA 41A-41A (1) | LTE B41  | 20           | 39750       | 2506                 | QPSK | 1         | 99               | 39750            | 2506                 | LTE B41  | 20           | 41490            | 2680                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                  | 15.57                             | 15.58 |      |       |       |
| CA 41A-41C     | LTE B41  | 20           | 39750       | 2506                 | QPSK | 1         | 99               | 39750            | 2506                 | LTE B41  | 20           | 41292            | 2660.2               | LTE B41  | 20           | 41490            | 2680                 | -        | -            | -                | -                    | -                                  | 15.58                             | 15.58 |      |       |       |
| CA 41C-41A     | LTE B41  | 20           | 39750       | 2506                 | QPSK | 1         | 99               | 39750            | 2506                 | LTE B41  | 20           | 39948            | 2525.8               | LTE B41  | 20           | 41490            | 2680                 | -        | -            | -                | -                    | -                                  | 15.58                             | 15.58 |      |       |       |
| CA 41A-41D     | LTE B41  | 20           | 39750       | 2506                 | QPSK | 1         | 99               | 39750            | 2506                 | LTE B41  | 20           | 41094            | 2640.4               | LTE B41  | 20           | 41292            | 2660.2               | LTE B41  | 20           | 41490            | 2680                 | -                                  | 15.51                             | 15.58 |      |       |       |
| CA 41C-41C     | LTE B41  | 20           | 39750       | 2506                 | QPSK | 1         | 99               | 39750            | 2506                 | LTE B41  | 20           | 39948            | 2525.8               | LTE B41  | 20           | 41292            | 2660.2               | LTE B41  | 20           | 41490            | 2680                 | -                                  | 15.58                             | 15.58 |      |       |       |
| CA 41E         | LTE B41  | 20           | 39750       | 2506                 | QPSK | 1         | 99               | 39750            | 2506                 | LTE B41  | 20           | 39948            | 2525.8               | LTE B41  | 20           | 40146            | 2545.6               | LTE B41  | 20           | 40344            | 2565.4               | -                                  | 15.58                             | 15.58 |      |       |       |
| CA 41D-41A     | LTE B41  | 20           | 39750       | 2506                 | QPSK | 1         | 99               | 39750            | 2506                 | LTE B41  | 20           | 39948            | 2525.8               | LTE B41  | 20           | 40146            | 2545.6               | LTE B41  | 20           | 41490            | 2680                 | -                                  | 15.50                             | 15.58 |      |       |       |
| CA 41C-41D     | LTE B41  | 20           | 39750       | 2506                 | QPSK | 1         | 99               | 39750            | 2506                 | LTE B41  | 20           | 39948            | 2525.8               | LTE B41  | 20           | 41094            | 2640.4               | LTE B41  | 20           | 41292            | 2660.2               | LTE B41                            | 20                                | 41490 | 2680 | 15.58 | 15.58 |
| CA 41D-41C     | LTE B41  | 20           | 39750       | 2506                 | QPSK | 1         | 99               | 39750            | 2506                 | LTE B41  | 20           | 39948            | 2525.8               | LTE B41  | 20           | 40146            | 2545.6               | LTE B41  | 20           | 41292            | 2660.2               | LTE B41                            | 20                                | 41490 | 2680 | 15.58 | 15.58 |

**Table 41**  
**Output Powers – Ant 4A**

| Combination    | PCC Band | PCC BW [MHz] | PCC          |                      |       |           | SCC 1            |                  |                      |          | SCC 2        |                      |          |              | SCC 3            |                      |          |              | SCC 4            |                      | Power    |              |                  |                      |                                       |                                   |       |
|----------------|----------|--------------|--------------|----------------------|-------|-----------|------------------|------------------|----------------------|----------|--------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|-------|
|                |          |              | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod.  | PCC UL RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |
| CA 41A-41A (1) | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1         | 99               | 40620            | 2593                 | LTE B41  | 20           | 39750                | 2506     | -            | -                | -                    | -        | -            | -                | -                    | -        | -            | -                | -                    | 17.28                                 | 17.30                             |       |
| CA 41A-41C     | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1         | 99               | 40620            | 2593                 | LTE B41  | 20           | 41292                | 2660.2   | LTE B41      | 20               | 41490                | 2680     | -            | -                | -                    | -        | -            | -                | -                    | 17.29                                 | 17.30                             |       |
| CA 41C-41A     | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1         | 99               | 40620            | 2593                 | LTE B41  | 20           | 40818                | 2612.8   | LTE B41      | 20               | 41490                | 2680     | -            | -                | -                    | -        | -            | -                | -                    | 17.22                                 | 17.30                             |       |
| CA 41A-41D     | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1         | 99               | 40620            | 2593                 | LTE B41  | 20           | 41094                | 2640.4   | LTE B41      | 20               | 41292                | 2660.2   | LTE B41      | 20               | 41490                | 2680     | -            | -                | -                    | 17.13                                 | 17.30                             |       |
| CA 41C-41C     | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1         | 99               | 40620            | 2593                 | LTE B41  | 20           | 40422                | 2573.2   | LTE B41      | 20               | 41292                | 2660.2   | LTE B41      | 20               | 41490                | 2680     | -            | -                | -                    | 17.05                                 | 17.30                             |       |
| CA 41E         | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1         | 99               | 40620            | 2593                 | LTE B41  | 20           | 40422                | 2573.2   | LTE B41      | 20               | 40818                | 2612.8   | LTE B41      | 20               | 41016                | 2612.6   | -            | -                | -                    | 17.08                                 | 17.30                             |       |
| CA 41D-41A     | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1         | 99               | 40620            | 2593                 | LTE B41  | 20           | 40422                | 2573.2   | LTE B41      | 20               | 40818                | 2612.8   | LTE B41      | 20               | 41490                | 2680     | -            | -                | -                    | 17.09                                 | 17.30                             |       |
| CA 41C-41D     | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1         | 99               | 40620            | 2593                 | LTE B41  | 20           | 40422                | 2573.2   | LTE B41      | 20               | 41094                | 2640.4   | LTE B41      | 20               | 41292                | 2660.2   | LTE B41      | 20               | 41490                | 2680                                  | 17.29                             | 17.30 |
| CA 41D-41C     | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1         | 99               | 40620            | 2593                 | LTE B41  | 20           | 40422                | 2573.2   | LTE B41      | 20               | 40818                | 2612.8   | LTE B41      | 20               | 41292                | 2660.2   | LTE B41      | 20               | 41490                | 2680                                  | 17.30                             | 17.30 |

**Table 42**  
**Output Powers – Ant 4B**

| Combination    | PCC Band | PCC BW [MHz] | PCC          |                      |      |           | SCC 1            |                  |                      |          | SCC 2        |                  |                      |          | SCC 3        |                  |                      |          | Power        |                  |                      |                                    |                                   |       |      |       |       |
|----------------|----------|--------------|--------------|----------------------|------|-----------|------------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|------------------------------------|-----------------------------------|-------|------|-------|-------|
|                |          |              | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod. | PCC UL RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |      |       |       |
| CA 41A-41A (1) | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41  | 20           | 41490            | 2680                 | -        | -            | -                | -                    | -        | -            | -                | -                    | -                                  | 16.20                             | 16.20 |      |       |       |
| CA 41A-41C     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41  | 20           | 41292            | 2660.2               | LTE B41  | 20           | 41490            | 2680                 | -        | -            | -                | -                    | -                                  | 16.20                             | 16.20 |      |       |       |
| CA 41C-41A     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41  | 20           | 39948            | 2525.8               | LTE B41  | 20           | 41490            | 2680                 | -        | -            | -                | -                    | -                                  | 16.19                             | 16.20 |      |       |       |
| CA 41A-41D     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41  | 20           | 41094            | 2640.4               | LTE B41  | 20           | 41292            | 2660.2               | LTE B41  | 20           | 41490            | 2680                 | -                                  | 16.20                             | 16.20 |      |       |       |
| CA 41C-41C     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41  | 20           | 39948            | 2525.8               | LTE B41  | 20           | 41292            | 2660.2               | LTE B41  | 20           | 41490            | 2680                 | -                                  | 16.19                             | 16.20 |      |       |       |
| CA 41E         | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41  | 20           | 39948            | 2525.8               | LTE B41  | 20           | 40246            | 2545.6               | LTE B41  | 20           | 40344            | 2565.4               | -                                  | 16.18                             | 16.20 |      |       |       |
| CA 41D-41A     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41  | 20           | 39948            | 2525.8               | LTE B41  | 20           | 40246            | 2545.6               | LTE B41  | 20           | 40344            | 2565.4               | -                                  | 16.19                             | 16.20 |      |       |       |
| CA 41C-41D     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41  | 20           | 39948            | 2525.8               | LTE B41  | 20           | 40246            | 2545.6               | LTE B41  | 20           | 41292            | 2660.2               | LTE B41                            | 20                                | 41490 | 2680 | 16.19 | 16.20 |
| CA 41D-41C     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41  | 20           | 39948            | 2525.8               | LTE B41  | 20           | 40246            | 2545.6               | LTE B41  | 20           | 41292            | 2660.2               | LTE B41                            | 20                                | 41490 | 2680 | 16.19 | 16.20 |

## 1.3.15 LTE Band 41 PC2 as PCC

Table 43  
Output Powers – Ant 2A

| Combination    | PCC         |              |              |                      |       |           |                  |                  |                      |             | SCC 1        |                  |                      |             | SCC 2        |                  |                      |             | SCC 3        |                  |                      |             | SCC 4        |                  |                      |                                       | Power                             |       |
|----------------|-------------|--------------|--------------|----------------------|-------|-----------|------------------|------------------|----------------------|-------------|--------------|------------------|----------------------|-------------|--------------|------------------|----------------------|-------------|--------------|------------------|----------------------|-------------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|-------|
|                | PCC Band    | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod.  | PCC UL RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band    | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band    | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band    | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band    | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |
| CA 41A-41A (1) | LTE B41 PC2 | 20           | 39750        | 2506                 | 16QAM | 1         | 88               | 39750            | 2506                 | LTE B41 PC2 | 20           | 41490            | 2680                 |             |              |                  |                      |             |              |                  |                      |             |              |                  |                      |                                       | 17.26                             | 17.50 |
| CA 41A-41C     | LTE B41 PC2 | 20           | 39750        | 2506                 | 16QAM | 1         | 99               | 39750            | 2506                 | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 |             |              |                  |                      |             |              |                  |                      |                                       | 17.38                             | 17.50 |
| CA 41C-41A     | LTE B41 PC2 | 20           | 39750        | 2506                 | 16QAM | 1         | 99               | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 41490            | 2680                 |             |              |                  |                      |             |              |                  |                      |                                       | 17.38                             | 17.50 |
| CA 41A-41D     | LTE B41 PC2 | 20           | 39750        | 2506                 | 16QAM | 1         | 99               | 39750            | 2506                 | LTE B41 PC2 | 20           | 41094            | 2640.4               | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 |             |              |                  |                      |                                       | 17.41                             | 17.50 |
| CA 41C-41C     | LTE B41 PC2 | 20           | 39750        | 2506                 | 16QAM | 1         | 99               | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 |             |              |                  |                      |                                       | 17.42                             | 17.50 |
| CA 41E         | LTE B41 PC2 | 20           | 39750        | 2506                 | 16QAM | 1         | 99               | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 40146            | 2545.6               | LTE B41 PC2 | 20           | 40344            | 2565.4               |             |              |                  |                      |                                       | 17.41                             | 17.50 |
| CA 41D-41A     | LTE B41 PC2 | 20           | 39750        | 2506                 | 16QAM | 1         | 99               | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 40146            | 2545.6               | LTE B41 PC2 | 20           | 40344            | 2565.4               |             |              |                  |                      |                                       | 17.42                             | 17.50 |
| CA 41C-41D     | LTE B41 PC2 | 20           | 39750        | 2506                 | 16QAM | 1         | 99               | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 40394            | 2640.4               | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 |                                       | 17.38                             | 17.50 |
| CA 41D-41C     | LTE B41 PC2 | 20           | 39750        | 2506                 | 16QAM | 1         | 99               | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 40146            | 2545.6               | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 |                                       | 17.48                             | 17.50 |

Table 44  
Output Powers – Ant 2B

| Combination   | PCC         |              |              |                      |      |           |                  |                  |                      |             | SCC 1        |                  |                      |             | SCC 2        |                  |                      |             | SCC 3        |                  |                      |             | SCC 4        |                  |                      |                            | Power                             |       |
|---------------|-------------|--------------|--------------|----------------------|------|-----------|------------------|------------------|----------------------|-------------|--------------|------------------|----------------------|-------------|--------------|------------------|----------------------|-------------|--------------|------------------|----------------------|-------------|--------------|------------------|----------------------|----------------------------|-----------------------------------|-------|
|               | PCC Band    | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod. | PCC UL RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band    | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band    | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band    | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band    | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with CA (dBm) | LTE Single Carrier Tx Power (dBm) |       |
| CA 41A-41A(1) | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 99               | 39750            | 2506                 | LTE B41 PC2 | 20           | 41490            | 2680                 | -           | -            | -                | -                    | -           | -            | -                | -                    | -           | -            | -                | -                    | -                          | 15.51                             | 15.60 |
| CA 41A-41C    | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 99               | 39750            | 2506                 | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 | -           | -            | -                | -                    | -           | -            | -                | -                    | -                          | 15.53                             | 15.60 |
| CA 41C-41A    | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 99               | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 41490            | 2680                 | -           | -            | -                | -                    | -           | -            | -                | -                    | -                          | 15.52                             | 15.60 |
| CA 41A-41D    | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 99               | 39750            | 2506                 | LTE B41 PC2 | 20           | 41094            | 2640.4               | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 | -           | -            | -                | -                    | -                          | 15.47                             | 15.60 |
| CA 41C-41C    | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 99               | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 | -           | -            | -                | -                    | -                          | 15.47                             | 15.60 |
| CA 41E        | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 99               | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 40146            | 2545.6               | LTE B41 PC2 | 20           | 40344            | 2565.4               | -           | -            | -                | -                    | -                          | 15.45                             | 15.60 |
| CA 41D-41A    | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 99               | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 40146            | 2545.6               | LTE B41 PC2 | 20           | 40344            | 2565.4               | -           | -            | -                | -                    | -                          | 15.46                             | 15.60 |
| CA 41C-41D    | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 99               | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 40394            | 2640.4               | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 | -                          | 15.50                             | 15.60 |
| CA 41D-41C    | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 99               | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 40146            | 2545.6               | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 | -                          | 15.49                             | 15.60 |

Table 45  
Output Powers – Ant 4A

| Combination   | PCC         |              |              |                      |      |           |                  |                  |                      |             | SCC 1        |                  |                      |             | SCC 2        |                  |                      |             | SCC 3        |                  |                      |             | SCC 4        |                  |                      |                                       | Power                             |       |
|---------------|-------------|--------------|--------------|----------------------|------|-----------|------------------|------------------|----------------------|-------------|--------------|------------------|----------------------|-------------|--------------|------------------|----------------------|-------------|--------------|------------------|----------------------|-------------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|-------|
|               | PCC Band    | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod. | PCC UL RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band    | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band    | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band    | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band    | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |
| CA 41A-41A(1) | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 41490            | 2680                 | -           | -            | -                | -                    | -           | -            | -                | -                    | -           | -            | -                | -                    | -                                     | 17.28                             | 17.30 |
| CA 41A-41C    | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 | -           | -            | -                | -                    | -           | -            | -                | -                    | -                                     | 17.21                             | 17.30 |
| CA 41C-41A    | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 41490            | 2680                 | -           | -            | -                | -                    | -           | -            | -                | -                    | -                                     | 17.22                             | 17.30 |
| CA 41A-41D    | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 41094            | 2640.4               | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 | -           | -            | -                | -                    | -                                     | 17.22                             | 17.30 |
| CA 41C-41C    | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 | -           | -            | -                | -                    | -                                     | 17.18                             | 17.30 |
| CA 41E        | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 40146            | 2545.6               | LTE B41 PC2 | 20           | 40344            | 2565.4               | -           | -            | -                | -                    | -                                     | 17.16                             | 17.30 |
| CA 41D-41A    | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 40146            | 2545.6               | LTE B41 PC2 | 20           | 40344            | 2565.4               | -           | -            | -                | -                    | -                                     | 17.17                             | 17.30 |
| CA 41C-41D    | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 40394            | 2640.4               | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 | -                                     | 17.24                             | 17.30 |
| CA 41D-41C    | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 40146            | 2545.6               | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 | -                                     | 17.17                             | 17.30 |

Table 46  
Output Powers – Ant 4B

| Combination    | PCC         |              |              |                      |      |           |                  |                  |                      |             | SCC 1        |                  |                      |             | SCC 2        |                  |                      |             | SCC 3        |                  |                      |             | SCC 4        |                  |                      |                                       | Power                             |       |
|----------------|-------------|--------------|--------------|----------------------|------|-----------|------------------|------------------|----------------------|-------------|--------------|------------------|----------------------|-------------|--------------|------------------|----------------------|-------------|--------------|------------------|----------------------|-------------|--------------|------------------|----------------------|---------------------------------------|-----------------------------------|-------|
|                | PCC Band    | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod. | PCC UL RB | PCC UL RB Offset | PCC (DL) Channel | PCC (DL) Freq. [MHz] | SCC Band    | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band    | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band    | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | SCC Band    | SCC BW [MHz] | SCC (DL) Channel | SCC (DL) Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |
| CA 41A-41A (1) | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 41490            | 2680                 | -           | -            | -                | -                    | -           | -            | -                | -                    | -           | -            | -                | -                    | -                                     | 16.30                             | 16.30 |
| CA 41A-41E     | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 | -           | -            | -                | -                    | -           | -            | -                | -                    | -                                     | 16.18                             | 16.30 |
| CA 41C-41A     | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | 39948       | 2525.8       | LTE B41 PC2      | 20                   | 41490       | 2680         | -                | -                    | -           | -            | -                | -                    | -           | -            | -                | -                    | -                                     | 16.17                             | 16.30 |
| CA 41A-41D     | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 41094            | 2640.4               | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 | -           | -            | -                | -                    | -                                     | 16.19                             | 16.30 |
| CA 41C-41C     | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 | -           | -            | -                | -                    | -                                     | 16.20                             | 16.30 |
| CA 41E         | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 40146            | 2545.6               | LTE B41 PC2 | 20           | 40344            | 2565.4               | -           | -            | -                | -                    | -                                     | 16.19                             | 16.30 |
| CA 41D-41A     | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 40146            | 2545.6               | LTE B41 PC2 | 20           | 40344            | 2565.4               | -           | -            | -                | -                    | -                                     | 16.20                             | 16.30 |
| CA 41C-41D     | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 40394            | 2640.4               | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 | -                                     | 16.04                             | 16.30 |
| CA 41D-41C     | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750            | 2506                 | LTE B41 PC2 | 20           | 39948            | 2525.8               | LTE B41 PC2 | 20           | 40146            | 2545.6               | LTE B41 PC2 | 20           | 41292            | 2660.2               | LTE B41 PC2 | 20           | 41490            | 2680                 | -                                     | 16.10                             | 16.30 |

## 1.4 DL CA with DL 4x4 MIMO RF Conduction Powers

This device supports downlink 4x4 MIMO operations for some LTE bands. Uplink transmission is limited to a single output stream. When carrier aggregation was applicable, the general test selection and setup procedures described in Section 1.2 were applied.

Per May 2017 TCB Workshop Notes, SAR for 4x4 DL MIMO was not needed since the maximum average output power in 4x4 DL MIMO mode was not more than 0.25 dB higher than the maximum output power with 4x4 DL MIMO inactive. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation was not needed since the maximum average output power in 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25 dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.

|                  |  |
|------------------|--|
| FCC ID: BCGA2014 |  |
|------------------|--|

### 1.4.1 LTE 4x4 MIMO DL Standalone Powers

Table 47  
Output Powers – Ant 2A

| LTE Band | Bandwidth [MHz] | Channel | Frequency [MHz] | Modulation | RB Size | RB Offset | 4x4 DL MIMO Tx. Power [dBm] | Single Antenna Tx. Power [dBm] | Target Power [dBm] |
|----------|-----------------|---------|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|--------------------|
| 4        | 15              | 20025   | 1717.5          | QPSK       | 75      | 0         | 15.00                       | 15.00                          | 15.00              |
| 66       | 20              | 132072  | 1720            | 64QAM      | 1       | 99        | 14.53                       | 14.49                          | 14.75              |
| 2        | 3               | 18615   | 1851.5          | 64QAM      | 1       | 7         | 14.78                       | 15.40                          | 15.40              |
| 25       | 3               | 26055   | 1851.5          | 64QAM      | 1       | 7         | 14.90                       | 15.40                          | 15.40              |
| 7        | 20              | 20850   | 2510            | QPSK       | 1       | 0         | 14.10                       | 14.10                          | 14.10              |
| 30       | 10              | 27710   | 2310            | QPSK       | 1       | 0         | 13.29                       | 13.28                          | 13.30              |
| 41       | 20              | 40620   | 2593            | 16QAM      | 1       | 99        | 17.50                       | 17.50                          | 17.50              |
| 41 PC2   | 20              | 39750   | 2506            | 16QAM      | 1       | 99        | 17.50                       | 17.50                          | 17.50              |

Table 48  
Output Powers – Ant 2B

| LTE Band | Bandwidth [MHz] | Channel | Frequency [MHz] | Modulation | RB Size | RB Offset | 4x4 DL MIMO Tx. Power [dBm] | Single Antenna Tx. Power [dBm] | Maximum Allowed Power [dBm] |
|----------|-----------------|---------|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|-----------------------------|
| 4        | 3               | 20385   | 1753.5          | 64QAM      | 1       | 7         | 14.38                       | 14.38                          | 15.0                        |
| 66       | 3               | 132657  | 1778.5          | 64QAM      | 1       | 7         | 14.38                       | 14.38                          | 15.0                        |
| 2        | 20              | 18700   | 1860            | QPSK       | 1       | 0         | 15.30                       | 15.30                          | 15.3                        |
| 25       | 20              | 26140   | 1860            | QPSK       | 1       | 0         | 15.30                       | 15.30                          | 15.3                        |
| 7        | 20              | 20850   | 2510            | 64QAM      | 1       | 99        | 12.98                       | 13.00                          | 13.0                        |
| 30       | 5               | 27710   | 2310            | 64QAM      | 1       | 24        | 14.20                       | 14.20                          | 14.2                        |
| 41       | 20              | 39750   | 2506            | QPSK       | 1       | 99        | 15.58                       | 15.58                          | 15.6                        |
| 41 PC2   | 20              | 39750   | 2506            | QPSK       | 1       | 99        | 15.60                       | 15.60                          | 15.6                        |

|                                    |                                                                                                           |                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: BCGA2014                   |  SAR EVALUATION REPORT | Reviewed by:<br>Quality Manager |
| Test Dates:<br>09/06/18 – 09/21/18 | DUT Type:<br>Tablet Device                                                                                | APPENDIX H:<br>Page 17 of 39    |

**Table 49**  
**Output Powers – Ant 4A**

| LTE Band | Bandwidth [MHz] | Channel | Frequency [MHz] | Modulation | RB Size | RB Offset | 4x4 DL MIMO Tx. Power [dBm] | Single Antenna Tx. Power [dBm] | Maximum Allowed Power [dBm] |
|----------|-----------------|---------|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|-----------------------------|
| 4        | 20              | 20050   | 1720            | 16QAM      | 1       | 0         | 14.99                       | 14.99                          | 15.00                       |
| 66       | 20              | 132072  | 1720            | 16QAM      | 1       | 0         | 15.00                       | 14.99                          | 15.00                       |
| 2        | 15              | 18925   | 1882.5          | 16QAM      | 1       | 0         | 15.10                       | 15.08                          | 15.40                       |
| 25       | 15              | 26365   | 1882.5          | 16QAM      | 1       | 0         | 15.08                       | 15.08                          | 15.40                       |
| 7        | 10              | 20800   | 2505            | QPSK       | 1       | 49        | 14.30                       | 14.30                          | 14.30                       |
| 30       | 10              | 27710   | 2310            | QPSK       | 1       | 0         | 14.10                       | 14.10                          | 14.10                       |
| 41       | 20              | 40620   | 2593            | 16QAM      | 1       | 99        | 17.30                       | 17.30                          | 17.30                       |
| 41 PC2   | 20              | 39750   | 2506            | QPSK       | 1       | 0         | 17.30                       | 17.30                          | 17.30                       |

**Table 50**  
**Output Powers – Ant 4B**

| LTE Band | Bandwidth [MHz] | Channel | Frequency [MHz] | Modulation | RB Size | RB Offset | 4x4 DL MIMO Tx. Power [dBm] | Single Antenna Tx. Power [dBm] | Maximum Allowed Power [dBm] |
|----------|-----------------|---------|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|-----------------------------|
| 4        | 15              | 20025   | 1717.5          | 64QAM      | 1       | 74        | 15.00                       | 15.00                          | 15.00                       |
| 66       | 15              | 132047  | 1717.5          | 64QAM      | 1       | 74        | 15.00                       | 15.00                          | 15.00                       |
| 2        | 10              | 18925   | 1882.5          | 16QAM      | 1       | 49        | 14.50                       | 14.50                          | 14.50                       |
| 25       | 10              | 26365   | 1882.5          | 16QAM      | 1       | 49        | 14.50                       | 14.50                          | 14.50                       |
| 7        | 20              | 20850   | 2510            | 16QAM      | 1       | 50        | 12.30                       | 12.30                          | 12.30                       |
| 30       | 10              | 27710   | 2310            | QPSK       | 1       | 0         | 13.50                       | 13.50                          | 13.50                       |
| 41       | 20              | 39750   | 2506            | QPSK       | 1       | 0         | 16.20                       | 16.20                          | 16.20                       |
| 41 PC2   | 20              | 39750   | 2506            | QPSK       | 1       | 0         | 16.20                       | 16.20                          | 16.20                       |

### 1.4.1 LTE Band 71 as PCC

**Table 51**  
**Output Powers – Ant 1**

| Combination    | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod. | PCC       |                  |              |                      |                 | SCC 1    |              |              |                      | SCC 2           |          |              |              | Power                |                 |                                       |                                    |
|----------------|----------|--------------|--------------|----------------------|------|-----------|------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|---------------------------------------|------------------------------------|
|                |          |              |              |                      |      | PCC UL RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | LTE Tx.Power with DL CA Enabled (dBm) | LTE Single Carrier Tx. Power (dBm) |
| CA [2A]-2A-71A | LTE B71  | 20           | 133297       | 680.5                | QPSK | 1         | 0                | 68761        | 634.5                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B2   | 20           | 700          | 1940                 | 2x2 MIMO        | 22.73                                 | 22.73                              |
| CA [2A]-4A-71A | LTE B71  | 20           | 133297       | 680.5                | QPSK | 1         | 0                | 68761        | 634.5                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | 22.73                                 | 22.73                              |
| CA [2A]-4A-71A | LTE B71  | 20           | 133297       | 680.5                | QPSK | 1         | 0                | 68761        | 634.5                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | 22.70                                 | 22.73                              |
| CA [2A]-6A-71A | LTE B71  | 20           | 133297       | 680.5                | QPSK | 1         | 0                | 68761        | 634.5                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | 22.70                                 | 22.73                              |
| CA [2A]-6A-71A | LTE B71  | 20           | 133297       | 680.5                | QPSK | 1         | 0                | 68761        | 634.5                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | 22.67                                 | 22.73                              |
| CA [4A]-4A-71A | LTE B71  | 20           | 133297       | 680.5                | QPSK | 1         | 0                | 68761        | 634.5                | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | LTE B4   | 10           | 2350         | 2150                 | 2x2 MIMO        | 22.73                                 | 22.73                              |
| CA [6A]-6A-71A | LTE B71  | 20           | 133297       | 680.5                | QPSK | 1         | 0                | 68761        | 634.5                | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | 22.73                                 | 22.73                              |
| CA [66C]-71A   | LTE B71  | 20           | 133297       | 680.5                | QPSK | 1         | 0                | 68761        | 634.5                | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 20           | 66984        | 2164.8               | 4x4 MIMO        | 22.73                                 | 22.73                              |

|                                    |                                                                                                                                   |                       |                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------|
| FCC ID: BCGA2014                   |  <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | SAR EVALUATION REPORT | Reviewed by:<br>Quality Manager |
| Test Dates:<br>09/06/18 – 09/21/18 | DUT Type:<br>Tablet Device                                                                                                        |                       | APPENDIX H:<br>Page 18 of 39    |



**Table 56**  
**Output Powers – Ant 3**

| Combination | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod. | PCC        |                  |              |                      |                 | SCC 1    |              |              |                      |                 | Power                                 |                                   |
|-------------|----------|--------------|--------------|----------------------|------|------------|------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|
|             |          |              |              |                      |      | PCC UL# RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | LTE Tx.Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA [2A]-17A | LTE B17  | 10           | 23790        | 710                  | QPSK | 25         | 25               | 5790         | 740                  | 2x2 MIMO        | LTE B2   | 10           | 900          | 1960                 | 4x4 MIMO        | 21.67                                 | 21.70                             |
| CA [4A]-17A | LTE B17  | 10           | 23790        | 710                  | QPSK | 25         | 25               | 5790         | 740                  | 2x2 MIMO        | LTE B4   | 10           | 2175         | 2132.5               | 4x4 MIMO        | 21.62                                 | 21.70                             |

## 1.4.4 LTE Band 13 as PCC

**Table 57**  
**Output Powers – Ant 1**

| Combination         | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC (Fwd) [MHz] | Mod. | PCC        |                  |              |                     |              | DL Ant. Config. | SCC Band | SCC 1        |                 | SCC 2           |          | SCC 3        |              | Power           |                 |          |              |                     |                 |                                       |                                   |       |
|---------------------|----------|--------------|--------------|-----------------|------|------------|------------------|--------------|---------------------|--------------|-----------------|----------|--------------|-----------------|-----------------|----------|--------------|--------------|-----------------|-----------------|----------|--------------|---------------------|-----------------|---------------------------------------|-----------------------------------|-------|
|                     |          |              |              |                 |      | PCC UL# RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq [MHz] | SCC BW [MHz] |                 |          | SCC (DL) Ch. | SCC (Fwd) [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (Fwd) [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Freq [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |
| CA [2A]-2A-13A      | LTE B13  | 10           | 23230        | 782             | QPSK | 1          | 0                | 5230         | 751                 | 2x2 MIMO     | LTE B2          | 20       | 900          | 1960            | 4x4 MIMO        | LTE B2   | 20           | 700          | 1940            | 2x2 MIMO        | -        | -            | -                   | -               | -                                     | 21.55                             | 21.60 |
| CA [2A]-4A-13A      | LTE B13  | 10           | 23230        | 782             | QPSK | 1          | 0                | 5230         | 751                 | 2x2 MIMO     | LTE B2          | 20       | 900          | 1960            | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5          | 2x2 MIMO        | -        | -            | -                   | -               | -                                     | 21.54                             | 21.60 |
| CA [2A]-13A         | LTE B13  | 10           | 23230        | 782             | QPSK | 1          | 0                | 5230         | 751                 | 2x2 MIMO     | LTE B2          | 20       | 900          | 1960            | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5          | 2x2 MIMO        | -        | -            | -                   | -               | -                                     | 21.56                             | 21.60 |
| CA [2A]-13A-66A     | LTE B13  | 10           | 23230        | 782             | QPSK | 1          | 0                | 5230         | 751                 | 2x2 MIMO     | LTE B2          | 20       | 900          | 1960            | 4x4 MIMO        | LTE B46  | 20           | 50665        | 5537.5          | 2x2 MIMO        | -        | -            | -                   | -               | -                                     | 21.53                             | 21.60 |
| CA [2A]-13A-66A     | LTE B13  | 10           | 23230        | 782             | QPSK | 1          | 0                | 5230         | 751                 | 2x2 MIMO     | LTE B2          | 20       | 900          | 1960            | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145            | 2x2 MIMO        | -        | -            | -                   | -               | -                                     | 21.51                             | 21.60 |
| CA 2A-13A-66A       | LTE B13  | 10           | 23230        | 782             | QPSK | 1          | 0                | 5230         | 751                 | 2x2 MIMO     | LTE B2          | 20       | 900          | 1960            | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145            | 4x4 MIMO        | -        | -            | -                   | -               | -                                     | 21.52                             | 21.60 |
| CA [4A]-4A-13A      | LTE B13  | 10           | 23230        | 782             | QPSK | 1          | 0                | 5230         | 751                 | 2x2 MIMO     | LTE B4          | 20       | 2175         | 2132.5          | 4x4 MIMO        | LTE B4   | 10           | 2350         | 2150            | 2x2 MIMO        | -        | -            | -                   | -               | -                                     | 21.53                             | 21.60 |
| CA 13A-66A-66A      | LTE B13  | 10           | 23230        | 782             | QPSK | 1          | 0                | 5230         | 751                 | 2x2 MIMO     | LTE B66         | 20       | 66786        | 2145            | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190            | 2x2 MIMO        | -        | -            | -                   | -               | -                                     | 21.51                             | 21.60 |
| CA [13A]-66B        | LTE B13  | 10           | 23230        | 782             | QPSK | 1          | 0                | 5230         | 751                 | 2x2 MIMO     | LTE B66         | 15       | 66786        | 2145            | 4x4 MIMO        | LTE B66  | 5            | 66879        | 2154.3          | 4x4 MIMO        | -        | -            | -                   | -               | -                                     | 21.52                             | 21.60 |
| CA 13A-[66C]        | LTE B13  | 10           | 23230        | 782             | QPSK | 1          | 0                | 5230         | 751                 | 2x2 MIMO     | LTE B66         | 20       | 66786        | 2145            | 4x4 MIMO        | LTE B66  | 20           | 66984        | 2164.8          | 4x4 MIMO        | -        | -            | -                   | -               | -                                     | 21.51                             | 21.60 |
| CA 13A-46A-66A      | LTE B13  | 10           | 23230        | 782             | QPSK | 1          | 0                | 5230         | 751                 | 2x2 MIMO     | LTE B46         | 20       | 50665        | 5537.5          | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145            | 4x4 MIMO        | -        | -            | -                   | -               | -                                     | 21.53                             | 21.60 |
| CA [2A]-13A-66B     | LTE B13  | 10           | 23230        | 782             | QPSK | 1          | 0                | 5230         | 751                 | 2x2 MIMO     | LTE B2          | 20       | 900          | 1960            | 4x4 MIMO        | LTE B66  | 15           | 66786        | 2145            | 2x2 MIMO        | LTE B66  | 5            | 66879               | 2154.3          | 2x2 MIMO                              | 21.52                             | 21.60 |
| CA [2A]-13A-66C     | LTE B13  | 10           | 23230        | 782             | QPSK | 1          | 0                | 5230         | 751                 | 2x2 MIMO     | LTE B2          | 20       | 900          | 1960            | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145            | 2x2 MIMO        | LTE B66  | 20           | 66984               | 2164.8          | 2x2 MIMO                              | 21.53                             | 21.60 |
| CA [2A]-13A-66A-66B | LTE B13  | 10           | 23230        | 782             | QPSK | 1          | 0                | 5230         | 751                 | 2x2 MIMO     | LTE B2          | 20       | 900          | 1960            | 4x4 MIMO        | LTE B66  | 15           | 66786        | 2145            | 2x2 MIMO        | LTE B66  | 5            | 66879               | 2154.3          | 2x2 MIMO                              | 21.53                             | 21.60 |
| CA [13A]-66A-66C    | LTE B13  | 10           | 23230        | 782             | QPSK | 1          | 0                | 5230         | 751                 | 2x2 MIMO     | LTE B66         | 20       | 66786        | 2145            | 4x4 MIMO        | LTE B66  | 20           | 67038        | 2170.2          | 2x2 MIMO        | LTE B66  | 20           | 67236               | 2190            | 2x2 MIMO                              | 21.52                             | 21.60 |
| CA 13A-46A-66A      | LTE B13  | 10           | 23230        | 782             | QPSK | 1          | 0                | 5230         | 751                 | 2x2 MIMO     | LTE B46         | 20       | 50665        | 5537.5          | 2x2 MIMO        | LTE B46  | 20           | 50467        | 5517.7          | 2x2 MIMO        | LTE B66  | 20           | 66786               | 2145            | 4x4 MIMO                              | 21.57                             | 21.60 |

**Table 58**  
**Output Powers – Ant 3**

| PCC              |          |              |              |                 |      |           |                  |              |                      | SCC 1           |          |              |              | SCC 2                |                 |          |              | SCC 3        |                      |                 |          | Power        |              |                      |                 |                                       |                                   |
|------------------|----------|--------------|--------------|-----------------|------|-----------|------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|
| Combination      | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC Freq. [MHz] | Mod. | PCC UL RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA [2A]-2A-13A   | LTE B13  | 10           | 23230        | 782             | QPSK | 25        | 0                | 5230         | 751                  | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B2   | 20           | 700          | 1940                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 22.10                                 | 22.18                             |
| CA [2A]-4A-13A   | LTE B13  | 10           | 23230        | 782             | QPSK | 25        | 0                | 5230         | 751                  | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | 22.11                                 | 22.18                             |
| CA [2A]-4A-13A   | LTE B13  | 10           | 23230        | 782             | QPSK | 25        | 0                | 5230         | 751                  | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | -        | -            | -            | -                    | -               | 22.11                                 | 22.18                             |
| CA [2A]-13A-66A  | LTE B13  | 10           | 23230        | 782             | QPSK | 25        | 0                | 5230         | 751                  | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B46  | 20           | 50665        | 5537.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | 22.08                                 | 22.18                             |
| CA [2A]-13A-66A  | LTE B13  | 10           | 23230        | 782             | QPSK | 25        | 0                | 5230         | 751                  | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 22.10                                 | 22.18                             |
| CA [2A]-13A-66A  | LTE B13  | 10           | 23230        | 782             | QPSK | 25        | 0                | 5230         | 751                  | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | 22.10                                 | 22.18                             |
| CA [4A]-4A-13A   | LTE B13  | 10           | 23230        | 782             | QPSK | 25        | 0                | 5230         | 751                  | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | LTE B4   | 10           | 2350         | 2150                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 22.09                                 | 22.18                             |
| CA [13A]-66A-66A | LTE B13  | 10           | 23230        | 782             | QPSK | 25        | 0                | 5230         | 751                  | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 22.10                                 | 22.18                             |
| CA [13A]-66B     | LTE B13  | 10           | 23230        | 782             | QPSK | 25        | 0                | 5230         | 751                  | 2x2 MIMO        | LTE B66  | 15           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 5            | 66879        | 2154.3               | 4x4 MIMO        | -        | -            | -            | -                    | -               | 22.10                                 | 22.18                             |
| CA [13A]-66C     | LTE B13  | 10           | 23230        | 782             | QPSK | 25        | 0                | 5230         | 751                  | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 20           | 66984        | 2164.8               | 4x4 MIMO        | -        | -            | -            | -                    | -               | 22.11                                 | 22.18                             |
| CA [13A]-66A-66A | LTE B13  | 10           | 23230        | 782             | QPSK | 25        | 0                | 5230         | 751                  | 2x2 MIMO        | LTE B46  | 20           | 50665        | 5537.5               | 2x2 MIMO        | LTE B46  | 20           | 66786        | 2145                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | 22.09                                 | 22.18                             |
| CA [2A]-13A-66B  | LTE B13  | 10           | 23230        | 782             | QPSK | 25        | 0                | 5230         | 751                  | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B66  | 15           | 66786        | 2145                 | 2x2 MIMO        | LTE B66  | 5            | 66879        | 2154.3               | 2x2 MIMO        | 22.11                                 | 22.18                             |
| CA [2A]-13A-66C  | LTE B13  | 10           | 23230        | 782             | QPSK | 25        | 0                | 5230         | 751                  | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | LTE B66  | 20           | 66984        | 2164.8               | 2x2 MIMO        | 22.08                                 | 22.18                             |
| CA [13A]-66A-66B | LTE B13  | 10           | 23230        | 782             | QPSK | 25        | 0                | 5230         | 751                  | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 5            | 67168        | 2183.2               | 2x2 MIMO        | LTE B66  | 15           | 67261        | 2192.5               | 2x2 MIMO        | 22.07                                 | 22.18                             |
| CA [13A]-66A-66C | LTE B13  | 10           | 23230        | 782             | QPSK | 25        | 0                | 5230         | 751                  | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 20           | 67038        | 2170.2               | 2x2 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | 22.05                                 | 22.18                             |
| CA [13A]-66A-66A | LTE B13  | 10           | 23230        | 782             | QPSK | 25        | 0                | 5230         | 751                  | 2x2 MIMO        | LTE B46  | 20           | 50665        | 5537.5               | 2x2 MIMO        | LTE B46  | 20           | 50467        | 5517.7               | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | 22.08                                 | 22.18                             |

## 1.4.5 LTE Band 14 as PCC

**Table 59**  
**Output Powers – Ant 1**

| Combination       | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod. | PCC        |                  |              |                      |          | DL Ant. Config. | SCC 1        |              |                      |                 | SCC 2    |              |              |                      | Power           |                                       |                                   |
|-------------------|----------|--------------|--------------|----------------------|------|------------|------------------|--------------|----------------------|----------|-----------------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|
|                   |          |              |              |                      |      | PCC UL# RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] | SCC Band |                 | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | LTE Tx.Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA [2A]-2A-14A    | LTE B14  | 10           | 23330        | 793                  | QPSK | 1          | 0                | 5330         | 763                  | 2x2 MIMO | LTE B2          | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B2   | 20           | 700          | 1940                 | 2x2 MIMO        | 23.59                                 | 23.60                             |
| CA [2A]-14A-[30A] | LTE B14  | 10           | 23330        | 793                  | QPSK | 1          | 0                | 5330         | 763                  | 2x2 MIMO | LTE B2          | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B30  | 10           | 9820         | 2355                 | 4x4 MIMO        | 23.55                                 | 23.60                             |
| CA [2A]-14A-66A   | LTE B14  | 10           | 23330        | 793                  | QPSK | 1          | 0                | 5330         | 763                  | 2x2 MIMO | LTE B2          | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | 23.56                                 | 23.60                             |
| CA [2A]-14A-66A   | LTE B14  | 10           | 23330        | 793                  | QPSK | 1          | 0                | 5330         | 763                  | 2x2 MIMO | LTE B2          | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | 23.58                                 | 23.60                             |
| CA [14A]-66A-66A  | LTE B14  | 10           | 23330        | 793                  | QPSK | 1          | 0                | 5330         | 763                  | 2x2 MIMO | LTE B66         | 20           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | 23.58                                 | 23.60                             |
| CA [14A]-30A-66A  | LTE B14  | 10           | 23330        | 793                  | QPSK | 1          | 0                | 5330         | 763                  | 2x2 MIMO | LTE B30         | 10           | 9820         | 2355                 | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | 23.59                                 | 23.60                             |

**Table 60**  
**Output Powers – Ant 3**

| Combination | PCC Band | PCC BW [MHz] | PCC (UL) Freq. [MHz] | Mod. | PCC |  |  |  |  | DL Ant. Config. | SCC 1 |  |  |  | SCC 2 |
|-------------|----------|--------------|----------------------|------|-----|--|--|--|--|-----------------|-------|--|--|--|-------|
|-------------|----------|--------------|----------------------|------|-----|--|--|--|--|-----------------|-------|--|--|--|-------|

## 1.4.6 LTE Band 5 as PCC

Table 61  
Output Powers – Ant 1

| Combination     | PCC Band | PCC BW [MHz] | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | Mod. | PCC        |                  |              |                      | SCC 1           |          |              |              | SCC 2                |                 |          |              | SCC 3        |                      |                 |          | Power        |              |                      |                 |                                       |                                   |
|-----------------|----------|--------------|--------------|----------------------|------|------------|------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|
|                 |          |              |              |                      |      | PCC UL# RB | PCC UL RB Offset | PCC [DL] Ch. | PCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA 5A-[7A]      | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B7   | 20           | 3100         | 2655                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | 20.79           | 20.80                                 |                                   |
| CA 5A-[25A]     | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B25  | 20           | 8365         | 1962.5               | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | 20.75           | 20.80                                 |                                   |
| CA 5A-[41A]     | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B41  | 20           | 40620        | 2593                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | 20.80           | 20.80                                 |                                   |
| CA [2A]-2A-5A   | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B2   | 20           | 700          | 1940                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 20.74                                 | 20.80                             |
| CA [2C]-5A      | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B2   | 20           | 702          | 1940.2               | 4x4 MIMO        | -        | -            | -            | -                    | -               | 20.73                                 | 20.80                             |
| CA [2A]-4A-5A   | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B2   | 20           | 712.5        | 2122.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | 20.76                                 | 20.80                             |
| CA [2A]-[4A]-5A | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | -        | -            | -            | -                    | -               | 20.78                                 | 20.80                             |
| CA 2A-5A-[30A]  | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B30  | 10           | 9820         | 2355                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | 20.79                                 | 20.80                             |
| CA [2A]-5A-66A  | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 20.71                                 | 20.80                             |
| CA 2A-5A-[66A]  | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | 20.76                                 | 20.80                             |
| CA [4A]-4A-5A   | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | LTE B4   | 10           | 2350         | 2150                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 20.79                                 | 20.80                             |
| CA 4A-5A-[30A]  | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | LTE B30  | 10           | 9820         | 2355                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | 20.74                                 | 20.80                             |
| CA 5A-[66B]     | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B66  | 15           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 5            | 66879        | 2154.3               | 4x4 MIMO        | -        | -            | -            | -                    | -               | 20.54                                 | 20.80                             |
| CA 5A-[66C]     | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 20           | 66879        | 2154.3               | 4x4 MIMO        | -        | -            | -            | -                    | -               | 20.80                                 | 20.80                             |
| CA 5A-[66A]-66A | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 20.72                                 | 20.80                             |
| CA 5A-[30A]-66A | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B30  | 10           | 9820         | 2355                 | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 20.73                                 | 20.80                             |
| CA [2A]-4A-5B   | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B5   | 5            | 2453         | 874.3                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | 20.77                                 | 20.80                             |
| CA 2A-[4A]-5B   | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B5   | 5            | 2453         | 874.3                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | 20.77                                 | 20.80                             |
| CA 2A-5B-[30A]  | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B5   | 5            | 2453         | 874.3                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B30  | 10           | 9820         | 2355                 | 4x4 MIMO        | 20.78                                 | 20.80                             |
| CA [2A]-5A-66B  | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | LTE B66  | 5            | 66879        | 2154.3               | 2x2 MIMO        | 20.77                                 | 20.80                             |
| CA [2A]-5A-66C  | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | LTE B66  | 20           | 66879        | 2154.3               | 2x2 MIMO        | 20.76                                 | 20.80                             |
| CA [2A]-5A-66D  | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | LTE B66  | 20           | 66879        | 2154.3               | 2x2 MIMO        | 20.76                                 | 20.80                             |
| CA [2A]-5B-66A  | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B5   | 5            | 2453         | 874.3                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | 20.77                                 | 20.80                             |
| CA 2A-5B-[66A]  | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B5   | 5            | 2453         | 874.3                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | 20.77                                 | 20.80                             |
| CA [4A]-4A-5B   | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B5   | 5            | 2453         | 874.3                | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | LTE B4   | 10           | 2350         | 2150                 | 2x2 MIMO        | 20.78                                 | 20.80                             |
| CA 5B-[66A]-66A | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B5   | 5            | 2453         | 874.3                | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | 20.77                                 | 20.80                             |
| CA 5A-[66A]-66B | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 5            | 67168        | 2183.2               | 2x2 MIMO        | LTE B66  | 15           | 67261        | 2192.5               | 2x2 MIMO        | 20.79                                 | 20.80                             |
| CA 5A-[66A]-66C | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 20           | 67038        | 2170.2               | 2x2 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | 20.78                                 | 20.80                             |
| CA 5B-[30A]-66A | LTE B5   | 10           | 20525        | 836.5                | QPSK | 25         | 0                | 2525         | 881.5                | 2x2 MIMO        | LTE B5   | 5            | 2453         | 874.3                | 2x2 MIMO        | LTE B30  | 10           | 9820         | 2355                 | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | 20.77                                 | 20.80                             |

Table 62  
Output Powers – Ant 3

| Combination     | PCC Band | PCC BW [MHz] | PCC [UL] Freq. [MHz] | Mod.        | PCC       |                  |              |                      | DL Ant. Config. | SCC 1    |              |              |                      | DL Ant. Config. | SCC 2    |              |              |                      | DL Ant. Config. | SCC 3    |              |              |                      | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |       |       |
|-----------------|----------|--------------|----------------------|-------------|-----------|------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|---------------------------------------|-----------------------------------|-------|-------|-------|
|                 |          |              |                      |             | PCC UL RB | PCC UL RB Offset | PCC [DL] Ch. | PCC [DL] Freq. [MHz] |                 | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] |                 | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] |                 | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] |                                       |                                   |       |       |       |
| CA 5A-[7A]      | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B7   | 20           | 3100         | 2655                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -                                     | 21.07                             | 21.40 |       |       |
| CA 5A-[25A]     | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B25  | 20           | 8365         | 1962.5               | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -                                     | -                                 | 21.15 | 21.40 |       |
| CA 5A-[41A]     | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B41  | 20           | 40620        | 2593                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -                                     | -                                 | 21.27 | 21.40 |       |
| CA [2A]-2A-5A   | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B2   | 20           | 700          | 1940                 | 2x2 MIMO        | -        | -            | -            | -                    | -                                     | -                                 | -     | 21.06 | 21.40 |
| CA [2C]-5A      | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B2   | 20           | 702          | 1940.2               | 4x4 MIMO        | -        | -            | -            | -                    | -                                     | -                                 | -     | 21.04 | 21.40 |
| CA [2A]-4A-5A   | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | -        | -            | -            | -                    | -                                     | -                                 | -     | 21.12 | 21.40 |
| CA 2A-[4A]-5A   | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | -        | -            | -            | -                    | -                                     | -                                 | -     | 21.11 | 21.40 |
| CA 2A-5A-[30A]  | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B30  | 10           | 9820         | 2355                 | 4x4 MIMO        | -        | -            | -            | -                    | -                                     | -                                 | -     | 21.02 | 21.40 |
| CA [2A]-5A-66A  | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -                                     | -                                 | -     | 21.08 | 21.40 |
| CA 2A-5A-[66A]  | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | -        | -            | -            | -                    | -                                     | -                                 | -     | 21.09 | 21.40 |
| CA [4A]-4A-5A   | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | LTE B4   | 10           | 2350         | 2150                 | 2x2 MIMO        | -        | -            | -            | -                    | -                                     | -                                 | -     | 21.05 | 21.40 |
| CA 4A-5A-[30A]  | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | LTE B30  | 10           | 9820         | 2355                 | 4x4 MIMO        | -        | -            | -            | -                    | -                                     | -                                 | -     | 21.15 | 21.40 |
| CA 5A-[66B]     | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B66  | 15           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 5            | 66879        | 2154.3               | 4x4 MIMO        | -        | -            | -            | -                    | -                                     | -                                 | -     | 21.11 | 21.40 |
| CA 5A-[66C]     | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 20           | 66879        | 2154.3               | 4x4 MIMO        | -        | -            | -            | -                    | -                                     | -                                 | -     | 21.09 | 21.40 |
| CA 5A-[66A]-66A | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | -        | -            | -            | -                    | -                                     | -                                 | -     | 21.09 | 21.40 |
| CA 5A-[30A]-66A | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B30  | 10           | 9820         | 2355                 | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -                                     | -                                 | -     | 21.04 | 21.40 |
| CA [2A]-4A-5B   | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B5   | 5            | 2453         | 874.3                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO                              | 21.11                             | 21.40 |       |       |
| CA 2A-[4A]-5B   | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B5   | 5            | 2453         | 874.3                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO                              | 21.08                             | 21.40 |       |       |
| CA 2A-5B-[30A]  | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B5   | 5            | 2453         | 874.3                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B30  | 10           | 9820         | 2355                 | 4x4 MIMO                              | 21.09                             | 21.40 |       |       |
| CA [2A]-5A-66B  | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | LTE B66  | 5            | 66879        | 2154.3               | 2x2 MIMO                              | 21.11                             | 21.40 |       |       |
| CA 2A-5A-[66A]  | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 20           | 66879        | 2154.3               | 4x4 MIMO                              | 21.09                             | 21.40 |       |       |
| CA [4A]-4A-5B   | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B5   | 5            | 2453         | 874.3                | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | LTE B4   | 10           | 2350         | 2150                 | 2x2 MIMO                              | 21.10                             | 21.40 |       |       |
| CA 4B-[66A]-66A | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B5   | 5            | 2453         | 874.3                | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO                              | 21.09                             | 21.40 |       |       |
| CA 5A-[66A]-66B | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 5            | 67236        | 2190                 | 2x2 MIMO        | LTE B66  | 15           | 67261        | 2192.5               | 2x2 MIMO                              | 21.07                             | 21.40 |       |       |
| CA 5A-[66A]-66C | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO                              | 21.10                             | 21.40 |       |       |
| CA 5B-[30A]-66A | LTE B5   | 10           | 20525                | 836.5 16QAM | 1         | 49               | 2525         | 881.5                | 2x2 MIMO        | LTE B5   | 5            | 2453         | 874.3                | 2x2 MIMO        | LTE B30  | 10           | 9820         | 2355                 | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO                              | 21.14                             | 21.40 |       |       |

# 1.4.8 LTE Band 4 as PCC

**Table 65**  
**Output Powers – Ant 2A**

| Combination | PCC Band | PCC BW [MHz] | PCC [DL] Ch. | PCC [UL] Freq. [MHz] | Mod. | PCC UL RB | PCC UL RB Offset | PCC [DL] Ch. | PCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] |
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**Table 67**  
**Output Powers – Ant 4A**

| Combination        | PCC Band | PCC BW | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod.  | PCC UL RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] | DL Ant. Config. | SCC 1    |        |              |                      | SCC 2           |          |        |              | SCC 3                |                 |          |        | Power        |                      |                 |                                       |                                   |
|--------------------|----------|--------|--------------|----------------------|-------|-----------|------------------|--------------|----------------------|-----------------|----------|--------|--------------|----------------------|-----------------|----------|--------|--------------|----------------------|-----------------|----------|--------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|
|                    |          |        |              |                      |       |           |                  |              |                      |                 | SCC Band | SCC BW | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA [2A]-4A         | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 2x2 MIMO        | LTE B2   | 20     | 900          | 1960                 | 4x4 MIMO        | -        | -      | -            | -                    | -               | -        | -      | -            | -                    | 14.64           | 14.99                                 |                                   |
| CA [2A]-4A         | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 4x4 MIMO        | LTE B2   | 20     | 900          | 1960                 | 2x2 MIMO        | -        | -      | -            | -                    | -               | -        | -      | -            | -                    | 14.73           | 14.99                                 |                                   |
| CA [4A]-12A (1)    | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 4x4 MIMO        | LTE B12  | 10     | 5095         | 737.5                | 2x2 MIMO        | -        | -      | -            | -                    | -               | -        | -      | -            | -                    | 14.68           | 14.99                                 |                                   |
| CA [4A]-12A (2)    | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 4x4 MIMO        | LTE B12  | 10     | 5095         | 737.5                | 2x2 MIMO        | -        | -      | -            | -                    | -               | -        | -      | -            | -                    | 14.69           | 14.99                                 |                                   |
| CA [4A]-17A        | LTE B4   | 10     | 20000        | 1715                 | 16QAM | 1         | 49               | 2000         | 2115                 | 4x4 MIMO        | LTE B17  | 10     | 5790         | 740                  | 2x2 MIMO        | -        | -      | -            | -                    | -               | -        | -      | -            | -                    | 14.70           | 14.99                                 |                                   |
| CA [4A]-29A        | LTE B4   | 10     | 20000        | 1715                 | 16QAM | 1         | 49               | 2000         | 2115                 | 4x4 MIMO        | LTE B29  | 10     | 9715         | 722.5                | 2x2 MIMO        | -        | -      | -            | -                    | -               | -        | -      | -            | -                    | 14.72           | 14.99                                 |                                   |
| CA [4A]-46A        | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 4x4 MIMO        | LTE B46  | 20     | 50665        | 5537.5               | 2x2 MIMO        | -        | -      | -            | -                    | -               | -        | -      | -            | -                    | 14.68           | 14.99                                 |                                   |
| CA [2A]-2A-4A      | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 2x2 MIMO        | LTE B2   | 20     | 900          | 1960                 | 4x4 MIMO        | LTE B2   | 20     | 700          | 1940                 | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.64                                 | 14.99                             |
| CA [2A]-4A-4A      | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 4x4 MIMO        | LTE B4   | 20     | 2300         | 2145                 | 2x2 MIMO        | LTE B2   | 20     | 900          | 1960                 | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.61                                 | 14.99                             |
| CA [2A]-4A-4A      | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 2x2 MIMO        | LTE B4   | 20     | 2300         | 2145                 | 4x4 MIMO        | LTE B2   | 20     | 900          | 1960                 | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.61                                 | 14.99                             |
| CA [2A]-4A-5A      | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 2x2 MIMO        | LTE B2   | 20     | 900          | 1960                 | 4x4 MIMO        | LTE B5   | 10     | 2525         | 881.5                | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.57                                 | 14.99                             |
| CA [2A]-4A-5A      | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 4x4 MIMO        | LTE B2   | 20     | 900          | 1960                 | 2x2 MIMO        | LTE B5   | 10     | 2525         | 881.5                | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.58                                 | 14.99                             |
| CA [2A]-4A-12A     | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 2x2 MIMO        | LTE B2   | 20     | 900          | 1960                 | 4x4 MIMO        | LTE B12  | 10     | 5095         | 737.5                | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.63                                 | 14.99                             |
| CA [2A]-4A-12A     | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 4x4 MIMO        | LTE B2   | 20     | 900          | 1960                 | 2x2 MIMO        | LTE B12  | 10     | 5095         | 737.5                | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.63                                 | 14.99                             |
| CA [2A]-4A-13A     | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 2x2 MIMO        | LTE B2   | 20     | 900          | 1960                 | 4x4 MIMO        | LTE B13  | 10     | 5230         | 751                  | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.59                                 | 14.99                             |
| CA [2A]-4A-13A     | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 4x4 MIMO        | LTE B2   | 20     | 900          | 1960                 | 2x2 MIMO        | LTE B13  | 10     | 5230         | 751                  | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.59                                 | 14.99                             |
| CA [2A]-4A-29A     | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 2x2 MIMO        | LTE B2   | 20     | 900          | 1960                 | 4x4 MIMO        | LTE B29  | 10     | 9715         | 722.5                | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.61                                 | 14.99                             |
| CA [2A]-4A-29A     | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 4x4 MIMO        | LTE B2   | 20     | 900          | 1960                 | 2x2 MIMO        | LTE B29  | 10     | 9715         | 722.5                | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.59                                 | 14.99                             |
| CA [2A]-4A-30A     | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 2x2 MIMO        | LTE B2   | 20     | 900          | 1960                 | 4x4 MIMO        | LTE B30  | 10     | 9820         | 2355                 | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.60                                 | 14.99                             |
| CA [2A]-4A-30A     | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 4x4 MIMO        | LTE B2   | 20     | 900          | 1960                 | 2x2 MIMO        | LTE B30  | 10     | 9820         | 2355                 | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.65                                 | 14.99                             |
| CA [2A]-4A-30A     | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 2x2 MIMO        | LTE B4   | 20     | 2300         | 2145                 | 4x4 MIMO        | LTE B30  | 10     | 9820         | 2355                 | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.60                                 | 14.99                             |
| CA [4A]-4A-5A      | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 2x2 MIMO        | LTE B4   | 20     | 2300         | 2145                 | 2x2 MIMO        | LTE B5   | 10     | 2525         | 881.5                | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.63                                 | 14.99                             |
| CA [4A]-4A-5A      | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 4x4 MIMO        | LTE B4   | 20     | 2300         | 2145                 | 4x4 MIMO        | LTE B5   | 10     | 2525         | 881.5                | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.61                                 | 14.99                             |
| CA [4A]-4A-7A (1)  | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 2x2 MIMO        | LTE B4   | 20     | 2300         | 2145                 | 2x2 MIMO        | LTE B7   | 20     | 3100         | 2655                 | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.68                                 | 14.99                             |
| CA [4A]-4A-7A (1)  | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 4x4 MIMO        | LTE B4   | 20     | 2300         | 2145                 | 4x4 MIMO        | LTE B7   | 20     | 3100         | 2655                 | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.71                                 | 14.99                             |
| CA [4A]-4A-12A     | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 4x4 MIMO        | LTE B4   | 20     | 2300         | 2145                 | 2x2 MIMO        | LTE B12  | 10     | 5095         | 737.5                | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.62                                 | 14.99                             |
| CA [4A]-4A-12A     | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 2x2 MIMO        | LTE B4   | 20     | 2300         | 2145                 | 4x4 MIMO        | LTE B12  | 10     | 5095         | 737.5                | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.62                                 | 14.99                             |
| CA [4A]-4A-13A     | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 2x2 MIMO        | LTE B4   | 20     | 2300         | 2145                 | 2x2 MIMO        | LTE B13  | 10     | 5230         | 751                  | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.63                                 | 14.99                             |
| CA [4A]-4A-13A     | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 4x4 MIMO        | LTE B4   | 20     | 2300         | 2145                 | 4x4 MIMO        | LTE B13  | 10     | 5230         | 751                  | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.64                                 | 14.99                             |
| CA [4A]-4A-29A     | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 2x2 MIMO        | LTE B4   | 20     | 2300         | 2145                 | 2x2 MIMO        | LTE B29  | 10     | 9715         | 722.5                | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.61                                 | 14.99                             |
| CA [4A]-4A-29A     | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 4x4 MIMO        | LTE B4   | 20     | 2300         | 2145                 | 4x4 MIMO        | LTE B29  | 10     | 9715         | 722.5                | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.59                                 | 14.99                             |
| CA [4A]-4A-30A     | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 2x2 MIMO        | LTE B4   | 20     | 2300         | 2145                 | 2x2 MIMO        | LTE B30  | 10     | 9820         | 2355                 | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.65                                 | 14.99                             |
| CA [4A]-4A-30A     | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 4x4 MIMO        | LTE B4   | 20     | 2300         | 2145                 | 4x4 MIMO        | LTE B30  | 10     | 9820         | 2355                 | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.65                                 | 14.99                             |
| CA [4A]-46C        | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 4x4 MIMO        | LTE B46  | 20     | 50665        | 5537.5               | 2x2 MIMO        | LTE B46  | 20     | 50667        | 5517.7               | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.62                                 | 14.99                             |
| CA [4A]-4A-71A     | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 4x4 MIMO        | LTE B4   | 20     | 2300         | 2145                 | 2x2 MIMO        | LTE B71  | 20     | 68761        | 634.5                | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.59                                 | 14.99                             |
| CA [4A]-4A-71A     | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 2x2 MIMO        | LTE B4   | 20     | 2300         | 2145                 | 4x4 MIMO        | LTE B71  | 20     | 68761        | 634.5                | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.59                                 | 14.99                             |
| CA [4A]-4A-5A-30A  | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 2x2 MIMO        | LTE B5   | 10     | 2525         | 881.5                | 2x2 MIMO        | LTE B30  | 10     | 9820         | 2355                 | 4x4 MIMO        | -        | -      | -            | -                    | -               | 14.56                                 | 14.99                             |
| CA [4A]-7A-12A (1) | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 2x2 MIMO        | LTE B7   | 20     | 3100         | 2655                 | 4x4 MIMO        | LTE B12  | 10     | 5095         | 737.5                | 2x2 MIMO        | -        | -      | -            | -                    | -               | 14.55                                 | 14.99                             |
| CA [4A]-12A-30A    | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 2x2 MIMO        | LTE B12  | 10     | 5095         | 737.5                | 2x2 MIMO        | LTE B30  | 10     | 9820         | 2355                 | 4x4 MIMO        | -        | -      | -            | -                    | -               | 14.60                                 | 14.99                             |
| CA [4A]-29A-130A   | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 2x2 MIMO        | LTE B29  | 10     | 9715         | 722.5                | 2x2 MIMO        | LTE B30  | 10     | 9820         | 2355                 | 4x4 MIMO        | -        | -      | -            | -                    | -               | 14.58                                 | 14.99                             |
| CA [2A]-4A-5B      | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 2x2 MIMO        | LTE B2   | 20     | 900          | 1960                 | 4x4 MIMO        | LTE B5   | 10     | 2525         | 881.5                | 2x2 MIMO        | LTE B5   | 5      | 2453         | 874.3                | 2x2 MIMO        | 14.60                                 | 14.99                             |
| CA [2A]-4A-5B      | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 4x4 MIMO        | LTE B2   | 20     | 900          | 1960                 | 2x2 MIMO        | LTE B5   | 10     | 2525         | 881.5                | 2x2 MIMO        | LTE B2   | 5      | 2453         | 874.3                | 2x2 MIMO        | 14.55                                 | 14.99                             |
| CA [2A]-4A-12B     | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 2x2 MIMO        | LTE B2   | 20     | 900          | 1960                 | 4x4 MIMO        | LTE B12  | 5      | 5095         | 737.5                | 2x2 MIMO        | LTE B12  | 5      | 5047         | 732.7                | 2x2 MIMO        | 14.58                                 | 14.99                             |
| CA [2A]-4A-12B     | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 4x4 MIMO        | LTE B2   | 20     | 900          | 1960                 | 2x2 MIMO        | LTE B12  | 5      | 5095         | 737.5                | 2x2 MIMO        | LTE B12  | 5      | 5047         | 732.7                | 2x2 MIMO        | 14.58                                 | 14.99                             |
| CA [4A]-4A-5B      | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 2x2 MIMO        | LTE B4   | 20     | 2300         | 2145                 | 2x2 MIMO        | LTE B5   | 10     | 2525         | 881.5                | 2x2 MIMO        | LTE B5   | 5      | 2453         | 874.3                | 2x2 MIMO        | 14.54                                 | 14.99                             |
| CA [4A]-4A-5B      | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 4x4 MIMO        | LTE B4   | 20     | 2300         | 2145                 | 4x4 MIMO        | LTE B5   | 10     | 2525         | 881.5                | 2x2 MIMO        | LTE B5   | 5      | 2453         | 874.3                | 2x2 MIMO        | 14.55                                 | 14.99                             |
| CA [4A]-4A-12B     | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 2x2 MIMO        | LTE B4   | 20     | 2300         | 2145                 | 2x2 MIMO        | LTE B12  | 5      | 5095         | 737.5                | 2x2 MIMO        | LTE B12  | 5      | 5047         | 732.7                | 2x2 MIMO        | 14.57                                 | 14.99                             |
| CA [4A]-4A-12B     | LTE B4   | 20     | 20050        | 1720                 | 16QAM | 1         | 0                | 2050         | 2120                 | 4x4 MIMO        |          |        |              |                      |                 |          |        |              |                      |                 |          |        |              |                      |                 |                                       |                                   |

# 1.4.9 LTE Band 66 as PCC

**Table 69**  
**Output Powers – Ant 2A**

| Combination      | PCC Band | PCC BW [MHz] | PCC UL Ch. | PCC (UL) Freq. [MHz] | Mod.  | PCC       |                  | DL Ant. Config. | SCC Band | SCC 1      |                      | DL Ant. Config. | SCC Band | SCC 2        |            | DL Ant. Config. | SCC Band | SCC 3                |              | DL Ant. Config. | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |            |
|------------------|----------|--------------|------------|----------------------|-------|-----------|------------------|-----------------|----------|------------|----------------------|-----------------|----------|--------------|------------|-----------------|----------|----------------------|--------------|-----------------|---------------------------------------|-----------------------------------|------------|
|                  |          |              |            |                      |       | PCC UL RB | PCC UL RB Offset |                 |          | PCC DL Ch. | PCC (DL) Freq. [MHz] |                 |          | SCC BW [MHz] | SCC DL Ch. |                 |          | SCC (DL) Freq. [MHz] | SCC BW [MHz] |                 |                                       |                                   | SCC DL Ch. |
| CA [2A]-66A      | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 2x2 MIMO   | LTE B2               | 20              | 900      | 1960         | 4x4 MIMO   | -               | -        | 700                  | 1940         | 2x2 MIMO        | -                                     | 14.48                             | 14.49      |
| CA 2A-66A        | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 4x4 MIMO   | LTE B2               | 20              | 900      | 1960         | 2x2 MIMO   | -               | -        | 700                  | 1940         | 2x2 MIMO        | -                                     | 14.48                             | 14.49      |
| CA [7A]-66A      | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 2x2 MIMO   | LTE B7               | 20              | 3100     | 2655         | 4x4 MIMO   | -               | -        | -                    | -            | -               | -                                     | 14.57                             | 14.49      |
| CA 7A-66A        | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 4x4 MIMO   | LTE B7               | 20              | 3100     | 2655         | 4x4 MIMO   | -               | -        | -                    | -            | -               | -                                     | 14.44                             | 14.49      |
| CA [12A]-66A (1) | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 4x4 MIMO   | LTE B12              | 10              | 5095     | 737.5        | 2x2 MIMO   | -               | -        | -                    | -            | -               | -                                     | 14.47                             | 14.49      |
| CA [12A]-66A (2) | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 4x4 MIMO   | LTE B12              | 10              | 5095     | 737.5        | 2x2 MIMO   | -               | -        | -                    | -            | -               | -                                     | 14.47                             | 14.49      |
| CA [2A]-2A-66A   | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 2x2 MIMO   | LTE B2               | 20              | 900      | 1960         | 4x4 MIMO   | LTE B2          | 20       | 700                  | 1940         | 2x2 MIMO        | -                                     | 14.47                             | 14.49      |
| CA [2C]-66A      | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 2x2 MIMO   | LTE B2               | 20              | 900      | 1960         | 4x4 MIMO   | LTE B2          | 20       | 702                  | 1940.2       | 4x4 MIMO        | -                                     | 14.47                             | 14.49      |
| CA 2C-66A        | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 4x4 MIMO   | LTE B2               | 20              | 900      | 1960         | 2x2 MIMO   | LTE B2          | 20       | 702                  | 1940.2       | 2x2 MIMO        | -                                     | 14.46                             | 14.49      |
| CA 2A-66B        | LTE B66  | 15           | 132047     | 1717.5               | 64QAM | 1         | 74               | 66511           | 2117.5   | 4x4 MIMO   | LTE B66              | 5               | 66604    | 2126.8       | 4x4 MIMO   | LTE B2          | 20       | 900                  | 1960         | 2x2 MIMO        | -                                     | 14.49                             | 14.49      |
| CA 2A-66C        | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 4x4 MIMO   | LTE B66              | 20              | 67236    | 2139.8       | 4x4 MIMO   | LTE B2          | 20       | 900                  | 1960         | 2x2 MIMO        | -                                     | 14.43                             | 14.49      |
| CA 2A-66A-66A    | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 4x4 MIMO   | LTE B66              | 20              | 67236    | 2139.8       | 2x2 MIMO   | LTE B2          | 20       | 900                  | 1960         | 2x2 MIMO        | -                                     | 14.45                             | 14.49      |
| CA 2A-66A-66A    | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 2x2 MIMO   | LTE B66              | 20              | 67236    | 2139.8       | 4x4 MIMO   | LTE B2          | 20       | 900                  | 1960         | 2x2 MIMO        | -                                     | 14.45                             | 14.49      |
| CA [2A]-5A-66A   | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 2x2 MIMO   | LTE B2               | 20              | 900      | 1960         | 4x4 MIMO   | LTE B5          | 10       | 5250                 | 881.5        | 2x2 MIMO        | -                                     | 14.49                             | 14.49      |
| CA 2A-5A-66A     | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 4x4 MIMO   | LTE B2               | 20              | 900      | 1960         | 2x2 MIMO   | LTE B5          | 10       | 5250                 | 881.5        | 2x2 MIMO        | -                                     | 14.49                             | 14.49      |
| CA [2A]-12A-66A  | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 2x2 MIMO   | LTE B2               | 20              | 900      | 1960         | 4x4 MIMO   | LTE B12         | 10       | 5095                 | 737.5        | 2x2 MIMO        | -                                     | 14.49                             | 14.49      |
| CA 2A-12A-66A    | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 4x4 MIMO   | LTE B2               | 20              | 900      | 1960         | 2x2 MIMO   | LTE B12         | 10       | 5095                 | 737.5        | 2x2 MIMO        | -                                     | 14.49                             | 14.49      |
| CA [2A]-13A-66A  | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 2x2 MIMO   | LTE B2               | 20              | 900      | 1960         | 4x4 MIMO   | LTE B13         | 10       | 5230                 | 751          | 2x2 MIMO        | -                                     | 14.44                             | 14.49      |
| CA 2A-13A-66A    | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 4x4 MIMO   | LTE B2               | 20              | 900      | 1960         | 2x2 MIMO   | LTE B13         | 10       | 5230                 | 751          | 2x2 MIMO        | -                                     | 14.46                             | 14.49      |
| CA [2A]-14A-66A  | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 2x2 MIMO   | LTE B2               | 20              | 900      | 1960         | 4x4 MIMO   | LTE B14         | 10       | 5330                 | 763          | 2x2 MIMO        | -                                     | 14.44                             | 14.49      |
| CA 2A-14A-66A    | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 4x4 MIMO   | LTE B2               | 20              | 900      | 1960         | 2x2 MIMO   | LTE B14         | 10       | 5330                 | 763          | 2x2 MIMO        | -                                     | 14.45                             | 14.49      |
| CA [2A]-29A-66A  | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 2x2 MIMO   | LTE B2               | 20              | 900      | 1960         | 4x4 MIMO   | LTE B29         | 10       | 9715                 | 722.5        | 2x2 MIMO        | -                                     | 14.45                             | 14.49      |
| CA 2A-29A-66A    | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 4x4 MIMO   | LTE B2               | 20              | 900      | 1960         | 2x2 MIMO   | LTE B29         | 10       | 9715                 | 722.5        | 2x2 MIMO        | -                                     | 14.45                             | 14.49      |
| CA [2A]-30A-66A  | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 2x2 MIMO   | LTE B2               | 20              | 900      | 1960         | 4x4 MIMO   | LTE B30         | 10       | 9820                 | 2355         | 2x2 MIMO        | -                                     | 14.44                             | 14.49      |
| CA 2A-30A-66A    | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 4x4 MIMO   | LTE B2               | 20              | 900      | 1960         | 2x2 MIMO   | LTE B30         | 10       | 9820                 | 2355         | 2x2 MIMO        | -                                     | 14.47                             | 14.49      |
| CA 2A-30A-66A    | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 4x4 MIMO   | LTE B2               | 20              | 900      | 1960         | 2x2 MIMO   | LTE B30         | 10       | 9820                 | 2355         | 2x2 MIMO        | -                                     | 14.43                             | 14.49      |
| CA [2A]-46A-66A  | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 2x2 MIMO   | LTE B66              | 20              | 67236    | 2139.8       | 4x4 MIMO   | LTE B46         | 20       | 50665                | 5537.5       | 2x2 MIMO        | -                                     | 14.48                             | 14.49      |
| CA 2A-46A-66A    | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 4x4 MIMO   | LTE B2               | 20              | 900      | 1960         | 2x2 MIMO   | LTE B46         | 20       | 50665                | 5537.5       | 2x2 MIMO        | -                                     | 14.49                             | 14.49      |
| CA [2A]-66A-71A  | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 2x2 MIMO   | LTE B2               | 20              | 900      | 1960         | 4x4 MIMO   | LTE B71         | 20       | 68761                | 634.5        | 2x2 MIMO        | -                                     | 14.49                             | 14.49      |
| CA 2A-66A-71A    | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 4x4 MIMO   | LTE B2               | 20              | 900      | 1960         | 2x2 MIMO   | LTE B71         | 20       | 68761                | 634.5        | 2x2 MIMO        | -                                     | 14.49                             | 14.49      |
| CA 5A-66B        | LTE B66  | 15           | 132047     | 1717.5               | 64QAM | 1         | 74               | 66511           | 2117.5   | 4x4 MIMO   | LTE B66              | 5               | 66604    | 2126.8       | 4x4 MIMO   | LTE B5          | 10       | 5250                 | 881.5        | 2x2 MIMO        | -                                     | 14.44                             | 14.49      |
| CA 5A-66C        | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 4x4 MIMO   | LTE B66              | 20              | 67236    | 2139.8       | 4x4 MIMO   | LTE B5          | 10       | 5250                 | 881.5        | 2x2 MIMO        | -                                     | 14.41                             | 14.49      |
| CA 5A-66A-66A    | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 4x4 MIMO   | LTE B66              | 20              | 67236    | 2139.8       | 2x2 MIMO   | LTE B5          | 10       | 5250                 | 881.5        | 2x2 MIMO        | -                                     | 14.47                             | 14.49      |
| CA 5A-66A-66A    | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 2x2 MIMO   | LTE B66              | 20              | 67236    | 2139.8       | 4x4 MIMO   | LTE B5          | 10       | 5250                 | 881.5        | 2x2 MIMO        | -                                     | 14.45                             | 14.49      |
| CA 5A-66A-66A    | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 4x4 MIMO   | LTE B5               | 10              | 5250     | 881.5        | 2x2 MIMO   | LTE B30         | 10       | 9820                 | 2355         | 2x2 MIMO        | -                                     | 14.41                             | 14.49      |
| CA [12A]-66C     | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 2x2 MIMO   | LTE B66              | 20              | 67236    | 2139.8       | 4x4 MIMO   | LTE B12         | 10       | 5095                 | 737.5        | 2x2 MIMO        | -                                     | 14.45                             | 14.49      |
| CA 12A-66A-66A   | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 4x4 MIMO   | LTE B66              | 20              | 67236    | 2139.8       | 2x2 MIMO   | LTE B12         | 10       | 5095                 | 737.5        | 2x2 MIMO        | -                                     | 14.43                             | 14.49      |
| CA 12A-66A-66A   | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 2x2 MIMO   | LTE B66              | 20              | 67236    | 2139.8       | 4x4 MIMO   | LTE B12         | 10       | 5095                 | 737.5        | 2x2 MIMO        | -                                     | 14.44                             | 14.49      |
| CA [13A]-66A-66A | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 2x2 MIMO   | LTE B66              | 20              | 67236    | 2139.8       | 4x4 MIMO   | LTE B13         | 10       | 5230                 | 751          | 2x2 MIMO        | -                                     | 14.45                             | 14.49      |
| CA 13A-66A-66A   | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 4x4 MIMO   | LTE B2               | 20              | 900      | 1960         | 2x2 MIMO   | LTE B13         | 10       | 5230                 | 751          | 2x2 MIMO        | -                                     | 14.45                             | 14.49      |
| CA [13A]-66B     | LTE B66  | 15           | 132047     | 1717.5               | 64QAM | 1         | 74               | 66511           | 2117.5   | 4x4 MIMO   | LTE B66              | 5               | 66604    | 2126.8       | 4x4 MIMO   | LTE B13         | 10       | 5230                 | 751          | 2x2 MIMO        | -                                     | 14.48                             | 14.49      |
| CA [13A]-66C     | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 4x4 MIMO   | LTE B66              | 20              | 67236    | 2139.8       | 4x4 MIMO   | LTE B13         | 10       | 5230                 | 751          | 2x2 MIMO        | -                                     | 14.40                             | 14.49      |
| CA 13A-66A-66A   | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 4x4 MIMO   | LTE B13              | 10              | 5230     | 751          | 2x2 MIMO   | LTE B46         | 20       | 50665                | 5537.5       | 2x2 MIMO        | -                                     | 14.47                             | 14.49      |
| CA 14A-66A-66A   | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 4x4 MIMO   | LTE B66              | 20              | 67236    | 2139.8       | 2x2 MIMO   | LTE B14         | 10       | 5330                 | 763          | 2x2 MIMO        | -                                     | 14.42                             | 14.49      |
| CA 14A-66A-66A   | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 2x2 MIMO   | LTE B66              | 20              | 67236    | 2139.8       | 4x4 MIMO   | LTE B14         | 10       | 5330                 | 763          | 2x2 MIMO        | -                                     | 14.46                             | 14.49      |
| CA 14A-130A-66A  | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 2x2 MIMO   | LTE B14              | 10              | 5330     | 763          | 2x2 MIMO   | LTE B30         | 10       | 9820                 | 2355         | 4x4 MIMO        | -                                     | 14.46                             | 14.49      |
| CA 29A-66A-66A   | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 4x4 MIMO   | LTE B66              | 20              | 67236    | 2139.8       | 2x2 MIMO   | LTE B29         | 10       | 9715                 | 722.5        | 2x2 MIMO        | -                                     | 14.41                             | 14.49      |
| CA 29A-66A-66A   | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 2x2 MIMO   | LTE B66              | 20              | 67236    | 2139.8       | 4x4 MIMO   | LTE B29         | 10       | 9715                 | 722.5        | 2x2 MIMO        | -                                     | 14.46                             | 14.49      |
| CA [2A]-130A-66A | LTE B66  | 20           | 132072     | 1720                 | 64QAM | 1         | 99               | 66536           | 2120     | 2x2 MIMO   | LTE B29              | 10              | 9715     |              |            |                 |          |                      |              |                 |                                       |                                   |            |

**Table 70**  
**Output Powers – Ant 2B**

| Combination      | PCC Band | PCC BW [MHz] | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | Mod.  | PCC UL RB | PCC UL RB Offset | PCC [DL] Ch. | PCC [DL] Freq. [MHz] | DL Ant. Config. | SCC 1    |              |              |                      | SCC 2           |          |              |              | SCC 3                |                 |          |              | Power        |                      |                 |                                       |                                   |       |       |
|------------------|----------|--------------|--------------|----------------------|-------|-----------|------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|-------|-------|
|                  |          |              |              |                      |       |           |                  |              |                      |                 | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled [dBm] | LTE Single Carrier Tx Power [dBm] |       |       |
| CA [2A]-66A      | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | 14.10                                 | 14.35                             |       |       |
| CA [2A]-66A      | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                     | 14.24                             | 14.35 |       |
| CA [7A]-66A      | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 2x2 MIMO        | LTE B7   | 20           | 3100         | 2655                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                     | 14.19                             | 14.35 |       |
| CA [7A]-66A      | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 4x4 MIMO        | LTE B7   | 20           | 3100         | 2655                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                     | 14.30                             | 14.35 |       |
| CA [12A]-66A (1) | LTE B66  | 3            | 132657       | 7178.5               | 64QAM | 1         | 7                | 67121        | 2178.5               | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                     | 14.06                             | 14.38 |       |
| CA [12A]-66A (2) | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                     | 14.17                             | 14.35 |       |
| CA [2A]-2A-66A   | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B2   | 20           | 700          | 1940                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.00 | 14.35 |
| CA [2C]-66A      | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B2   | 20           | 702          | 1940.2               | 4x4 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.04 | 14.35 |
| CA [2C]-66A      | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B2   | 20           | 702          | 1940.2               | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.18 | 14.35 |
| CA [2A]-66B      | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 4x4 MIMO        | LTE B66  | 15           | 66554        | 2121.8               | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.12 | 14.35 |
| CA [2A]-66C      | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 4x4 MIMO        | LTE B66  | 20           | 66578        | 2124.2               | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.16 | 14.35 |
| CA [2A]-66A-66A  | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.10 | 14.35 |
| CA [2A]-66A-66A  | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.01 | 14.35 |
| CA [2A]-5A-66A   | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.04 | 14.35 |
| CA [2A]-5A-66A   | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.16 | 14.35 |
| CA [2A]-12A-66A  | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.00 | 14.35 |
| CA [2A]-12A-66A  | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.15 | 14.35 |
| CA [2A]-13A-66A  | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.02 | 14.35 |
| CA [2A]-13A-66A  | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.09 | 14.35 |
| CA [2A]-14A-66A  | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B14  | 10           | 5330         | 763                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.02 | 14.35 |
| CA [2A]-14A-66A  | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B14  | 10           | 5330         | 763                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.12 | 14.35 |
| CA [2A]-20A-66A  | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B20  | 10           | 9115         | 722.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.01 | 14.35 |
| CA [2A]-20A-66A  | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B20  | 10           | 9115         | 722.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.13 | 14.35 |
| CA [2A]-30A-66A  | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B30  | 10           | 9820         | 2355                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.00 | 14.35 |
| CA [2A]-30A-66A  | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B30  | 10           | 9820         | 2355                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.14 | 14.35 |
| CA [2A]-46A-66A  | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B46  | 20           | 50665        | 5537.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.05 | 14.35 |
| CA [2A]-46A-66A  | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B46  | 20           | 50665        | 5537.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.12 | 14.35 |
| CA [2A]-66A-71A  | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B71  | 20           | 68761        | 634.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.02 | 14.35 |
| CA [2A]-66A-71A  | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B71  | 20           | 68761        | 634.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.12 | 14.35 |
| CA [5A]-66B      | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 4x4 MIMO        | LTE B66  | 15           | 66554        | 2121.8               | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.10 | 14.35 |
| CA [5A]-66C      | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 4x4 MIMO        | LTE B66  | 20           | 66578        | 2124.2               | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.09 | 14.35 |
| CA [5A]-66A-66A  | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.08 | 14.35 |
| CA [5A]-66A-66A  | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 2x2 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.01 | 14.35 |
| CA [5A]-10A-66A  | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 2x2 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | LTE B10  | 10           | 9820         | 2355                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.02 | 14.35 |
| CA [12A]-66C     | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 4x4 MIMO        | LTE B66  | 20           | 66578        | 2124.2               | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.07 | 14.35 |
| CA [12A]-66A-66A | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.13 | 14.35 |
| CA [12A]-66A-66A | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 2x2 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.00 | 14.35 |
| CA [12A]-13A-66A | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 2x2 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.00 | 14.35 |
| CA [13A]-66A-66A | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.07 | 14.35 |
| CA [13A]-66A-66A | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 2x2 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 4x4 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.00 | 14.35 |
| CA [13A]-66B     | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 4x4 MIMO        | LTE B66  | 15           | 66554        | 2121.8               | 4x4 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.08 | 14.35 |
| CA [13A]-66B     | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 2x2 MIMO        | LTE B66  | 20           | 66578        | 2124.2               | 4x4 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.10 | 14.35 |
| CA [13A]-46A-66A | LTE B66  | 5            | 131997       | 712.5                | 64QAM | 1         | 24               | 66461        | 2122.5               | 4x4 MIMO        | LTE B13  | 10           | 5230         | 751</                |                 |          |              |              |                      |                 |          |              |              |                      |                 |                                       |                                   |       |       |

**Table 71**  
**Output Powers – Ant 4A**

| PCC              |          |              |              |                      |       |           |                  |              |                      |                 |          |              |              |                      |                 |          |              |              | SCC 1                |                 |          |              | SCC 2        |                      |                 |                                    | SCC 3                             |       |       |  | Power |  |
|------------------|----------|--------------|--------------|----------------------|-------|-----------|------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|------------------------------------|-----------------------------------|-------|-------|--|-------|--|
| Combination      | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod.  | PCC UL RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | LTE Tx Power with CA Enabled [dBm] | LTE Single Carrier Tx Power [dBm] |       |       |  |       |  |
| CA [2A]-66A      | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                  | 14.67                             | 14.99 |       |  |       |  |
| CA [2A]-66A      | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                  | 14.64                             | 14.99 |       |  |       |  |
| CA [7A]-66A      | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 2x2 MIMO        | LTE B7   | 20           | 3100         | 2655                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                  | 14.71                             | 14.99 |       |  |       |  |
| CA [7A]-66A      | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 4x4 MIMO        | LTE B7   | 20           | 3100         | 2655                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                  | 14.78                             | 14.99 |       |  |       |  |
| CA [12A]-66A (1) | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                  | 14.69                             | 14.99 |       |  |       |  |
| CA [12A]-66A (2) | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                  | 14.69                             | 14.99 |       |  |       |  |
| CA [2A]-2A-66A   | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B2   | 20           | 700          | 1940                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.62 | 14.99 |  |       |  |
| CA [2C]-66A      | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B2   | 20           | 702          | 1940.2               | 4x4 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.69 | 14.99 |  |       |  |
| CA [2C]-66A      | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B2   | 20           | 702          | 1940.2               | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.64 | 14.99 |  |       |  |
| CA [2A]-66B      | LTE B66  | 15           | 132322       | 1745                 | 64QAM | 1         | 74               | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 5            | 66693        | 2135.7               | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.64 | 14.99 |  |       |  |
| CA [2A]-66C      | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 4x4 MIMO        | LTE B66  | 20           | 66734        | 2139.8               | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.64 | 14.99 |  |       |  |
| CA [2A]-66A-66A  | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.64 | 14.99 |  |       |  |
| CA [2A]-66A-66A  | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 2x2 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.65 | 14.99 |  |       |  |
| CA [2A]-5A-66A   | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.62 | 14.99 |  |       |  |
| CA [2A]-66A      | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.65 | 14.99 |  |       |  |
| CA [2A]-12A-66A  | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.66 | 14.99 |  |       |  |
| CA [2A]-12A-66A  | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.66 | 14.99 |  |       |  |
| CA [2A]-13A-66A  | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.61 | 14.99 |  |       |  |
| CA [2A]-13A-66A  | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.63 | 14.99 |  |       |  |
| CA [2A]-14A-66A  | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B14  | 10           | 5330         | 763                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.61 | 14.99 |  |       |  |
| CA [2A]-14A-66A  | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B14  | 10           | 5330         | 763                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.64 | 14.99 |  |       |  |
| CA [2A]-29A-66A  | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B29  | 10           | 9715         | 722.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.61 | 14.99 |  |       |  |
| CA [2A]-30A-66A  | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B30  | 10           | 9820         | 2355                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.64 | 14.99 |  |       |  |
| CA [2A]-30A-66A  | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B30  | 10           | 9820         | 2355                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.65 | 14.99 |  |       |  |
| CA [2A]-30A-66A  | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B30  | 10           | 9820         | 2355                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.67 | 14.99 |  |       |  |
| CA [2A]-46A-66A  | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B46  | 20           | 50665        | 5537.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.63 | 14.99 |  |       |  |
| CA [2A]-46A-66A  | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B46  | 20           | 50665        | 5537.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.61 | 14.99 |  |       |  |
| CA [2A]-66A-71A  | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B71  | 20           | 68761        | 634.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.64 | 14.99 |  |       |  |
| CA [2A]-66A-71A  | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B71  | 20           | 68761        | 634.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.62 | 14.99 |  |       |  |
| CA [5A]-66B      | LTE B66  | 15           | 132322       | 1745                 | 64QAM | 1         | 74               | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 5            | 66693        | 2135.7               | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.56 | 14.99 |  |       |  |
| CA [5A]-66C      | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 4x4 MIMO        | LTE B66  | 20           | 66734        | 2139.8               | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.59 | 14.99 |  |       |  |
| CA [5A]-66A-66A  | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.62 | 14.99 |  |       |  |
| CA [5A]-66A-66A  | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 2x2 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.69 | 14.99 |  |       |  |
| CA [5A]-13A-66A  | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.65 | 14.99 |  |       |  |
| CA [12A]-66C     | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 4x4 MIMO        | LTE B66  | 20           | 66734        | 2139.8               | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.64 | 14.99 |  |       |  |
| CA [12A]-66A-66A | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 2x2 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.64 | 14.99 |  |       |  |
| CA [12A]-66A-66A | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 2x2 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.66 | 14.99 |  |       |  |
| CA [12A]-13A-66A | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.60 | 14.99 |  |       |  |
| CA [13A]-66A-66A | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.65 | 14.99 |  |       |  |
| CA [13A]-66A-66A | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 2x2 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 4x4 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.60 | 14.99 |  |       |  |
| CA [13A]-66B     | LTE B66  | 15           | 132322       | 1745                 | 64QAM | 1         | 74               | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 5            | 66693        | 2135.7               | 4x4 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.64 | 14.99 |  |       |  |
| CA [13A]-66C     | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 4x4 MIMO        | LTE B66  | 20           | 66734        | 2139.8               | 4x4 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.64 | 14.99 |  |       |  |
| CA [13A]-46A-66A | LTE B66  | 20           | 132072       | 1720                 | 16QAM | 1         | 0                | 66536        | 2120                 | 4x4 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | LTE B46  | 20           | 50665        | 5537.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                  | -                                 | 14.68 | 14.99 |  |       |  |
| CA [14A]-66A-66A | LTE B66  | 20           | 132072       | 17                   |       |           |                  |              |                      |                 |          |              |              |                      |                 |          |              |              |                      |                 |          |              |              |                      |                 |                                    |                                   |       |       |  |       |  |

**Table 72**  
**Output Powers – Ant 4B**

| PCC              |          |              |              |                      |       |           |                  |              |                      |                 | SCC 1    |              |              |                      | SCC 2           |          |              |              | SCC 3                |                 |          |              | Power        |                      |                 |                                       |                                   |       |       |
|------------------|----------|--------------|--------------|----------------------|-------|-----------|------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|-------|-------|
| Combination      | PCC Band | PCC BW [MHz] | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | Mod.  | PCC UL RB | PCC UL RB Offset | PCC [DL] Ch. | PCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled [dBm] | LTE Single Carrier Tx Power [dBm] |       |       |
| CA [2A]-66A      | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                     | 14.56                             | 15.00 |       |
| CA [2A]-66A      | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                     | 14.65                             | 15.00 |       |
| CA [7A]-66A      | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 2x2 MIMO        | LTE B7   | 20           | 3100         | 2655                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                     | 14.60                             | 15.00 |       |
| CA [7A]-66A      | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 4x4 MIMO        | LTE B7   | 20           | 3100         | 2655                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                     | 14.64                             | 15.00 |       |
| CA [12A]-66A (1) | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                     | 14.61                             | 15.00 |       |
| CA [12A]-66A (2) | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                     | 14.61                             | 15.00 |       |
| CA [2A]-2A-66A   | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B2   | 20           | 700          | 1940                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.58 | 15.00 |
| CA [2C]-66A      | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B2   | 20           | 702          | 1940.2               | 4x4 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.61 | 15.00 |
| CA [2C]-66A      | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B2   | 20           | 702          | 1940.2               | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.59 | 15.00 |
| CA [2A]-66B      | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 4x4 MIMO        | LTE B66  | 5            | 66604        | 2126.8               | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.59 | 15.00 |
| CA [2A]-66C      | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 4x4 MIMO        | LTE B66  | 20           | 66682        | 2134.6               | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.60 | 15.00 |
| CA [2A]-66A-66A  | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.56 | 15.00 |
| CA [2A]-66A-66A  | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 2x2 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.52 | 15.00 |
| CA [2A]-5A-66A   | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.56 | 15.00 |
| CA [2A]-5A-66A   | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.65 | 15.00 |
| CA [2A]-12A-66A  | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.59 | 15.00 |
| CA [2A]-12A-66A  | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.63 | 15.00 |
| CA [2A]-13A-66A  | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.60 | 15.00 |
| CA [2A]-13A-66A  | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.65 | 15.00 |
| CA [2A]-14A-66A  | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B14  | 10           | 5330         | 763                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.59 | 15.00 |
| CA [2A]-14A-66A  | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B14  | 10           | 5330         | 763                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.62 | 15.00 |
| CA [2A]-20A-66A  | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B20  | 10           | 9715         | 722.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.68 | 15.00 |
| CA [2A]-30A-66A  | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B30  | 10           | 9820         | 2355                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.65 | 15.00 |
| CA [2A]-30A-66A  | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B30  | 10           | 9820         | 2355                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.62 | 15.00 |
| CA [2A]-46A-66A  | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B46  | 20           | 50665        | 5537.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.59 | 15.00 |
| CA [2A]-46A-66A  | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B46  | 20           | 50665        | 5537.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.69 | 15.00 |
| CA [2A]-66A-71A  | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B71  | 20           | 68761        | 634.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.63 | 15.00 |
| CA [2A]-66A-71A  | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B71  | 20           | 68761        | 634.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.62 | 15.00 |
| CA [5A]-66B      | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 4x4 MIMO        | LTE B66  | 5            | 66604        | 2126.8               | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.57 | 15.00 |
| CA [5A]-66C      | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 4x4 MIMO        | LTE B66  | 20           | 66682        | 2134.6               | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.56 | 15.00 |
| CA [5A]-66A-66A  | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.65 | 15.00 |
| CA [5A]-18A-66A  | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 2x2 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.60 | 15.00 |
| CA [12A]-66C     | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 4x4 MIMO        | LTE B66  | 20           | 66682        | 2134.6               | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.53 | 15.00 |
| CA [12A]-66A-66A | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.63 | 15.00 |
| CA [12A]-66A-66A | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 2x2 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.56 | 15.00 |
| CA [12A]-13A-66A | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 2x2 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.60 | 15.00 |
| CA [13A]-66A-66A | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.59 | 15.00 |
| CA [13A]-66A-66A | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 2x2 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 4x4 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.64 | 15.00 |
| CA [13A]-66B     | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 4x4 MIMO        | LTE B66  | 5            | 66604        | 2126.8               | 4x4 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.62 | 15.00 |
| CA [13A]-66B     | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 2x2 MIMO        | LTE B66  | 20           | 66682        | 2134.6               | 4x4 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.62 | 15.00 |
| CA [13A]-46A-66A | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.62 | 15.00 |
| CA [14A]-66A-66A | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               | 66511        | 2117.5               | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | LTE B14  | 10           | 5330         | 763                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.62 | 15.00 |
| CA [14A]-66A-66A | LTE B66  | 15           | 132047       | 1717.5               | 64QAM | 1         | 74               |              |                      |                 |          |              |              |                      |                 |          |              |              |                      |                 |          |              |              |                      |                 |                                       |                                   |       |       |

# 1.4.10 LTE Band 2 as PCC

**Table 73**  
**Output Powers – Ant 2A**

| SCC 1           |          |              |            |                      |       |           |                  |            |                      |                 |          |              |            |                      |                 |          |              |            | SCC 2                |                 |          |              |            |                      |                 |                                       |                                   |       |  |  |  |  |  |  |  |  |  | SCC 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Power |  |
|-----------------|----------|--------------|------------|----------------------|-------|-----------|------------------|------------|----------------------|-----------------|----------|--------------|------------|----------------------|-----------------|----------|--------------|------------|----------------------|-----------------|----------|--------------|------------|----------------------|-----------------|---------------------------------------|-----------------------------------|-------|--|--|--|--|--|--|--|--|--|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|--|
| Combination     | PCC Band | PCC BW [MHz] | PCC UL Ch. | PCC (UL) Freq. [MHz] | Mod.  | PCC UL RB | PCC UL RB Offset | PCC UL Ch. | PCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC UL Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC UL Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC UL Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-4A      | LTE B2   | 3            | 18615      | 18515                | 64QAM | 1         | 7                | 615        | 1931.5               | 4x4 MIMO        | LTE B4   | 20           | 2175       | 2132.5               | 2x2 MIMO        | -        | -            | -          | -                    | -               | -        | -            | -          | -                    | -               | -                                     | 15.16                             | 15.40 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-4A      | LTE B2   | 3            | 18615      | 18515                | 64QAM | 1         | 7                | 615        | 1931.5               | 2x2 MIMO        | LTE B4   | 20           | 2175       | 2132.5               | 4x4 MIMO        | -        | -            | -          | -                    | -               | -        | -            | -          | -                    | -               | -                                     | 15.06                             | 15.40 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-12A     | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 4x4 MIMO        | LTE B12  | 10           | 5095       | 737.5                | 2x2 MIMO        | -        | -            | -          | -                    | -               | -        | -            | -          | -                    | -               | -                                     | 15.08                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-17A     | LTE B2   | 10           | 18650      | 18550                | 16QAM | 1         | 0                | 650        | 1935                 | 4x4 MIMO        | LTE B17  | 10           | 5790       | 740                  | 2x2 MIMO        | -        | -            | -          | -                    | -               | -        | -            | -          | -                    | -               | 15.03                                 | 15.37                             |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-29A     | LTE B2   | 10           | 18650      | 18550                | 16QAM | 1         | 0                | 650        | 1935                 | 4x4 MIMO        | LTE B29  | 10           | 9715       | 722.5                | 2x2 MIMO        | -        | -            | -          | -                    | -               | -        | -            | -          | -                    | -               | 15.08                                 | 15.37                             |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-66A     | LTE B2   | 3            | 18615      | 18515                | 64QAM | 1         | 7                | 615        | 1931.5               | 4x4 MIMO        | LTE B66  | 20           | 66786      | 2145                 | 2x2 MIMO        | -        | -            | -          | -                    | -               | -        | -            | -          | -                    | -               | 15.12                                 | 15.40                             |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-66A     | LTE B2   | 3            | 18615      | 18515                | 64QAM | 1         | 7                | 615        | 1931.5               | 2x2 MIMO        | LTE B66  | 20           | 66786      | 2145                 | 4x4 MIMO        | -        | -            | -          | -                    | -               | -        | -            | -          | -                    | -               | 14.97                                 | 15.40                             |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-2A-4A   | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 1100       | 1980                 | 2x2 MIMO        | LTE B4   | 20           | 2175       | 2132.5               | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.03                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-2A-4A   | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 2x2 MIMO        | LTE B2   | 20           | 1100       | 1980                 | 4x4 MIMO        | LTE B4   | 20           | 2175       | 2132.5               | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.08                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-12A-4A  | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 2x2 MIMO        | LTE B2   | 20           | 1100       | 1980                 | 2x2 MIMO        | LTE B12  | 10           | 5095       | 737.5                | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.09                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-2A-5A   | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 1100       | 1980                 | 2x2 MIMO        | LTE B5   | 10           | 2525       | 881.5                | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.10                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-2A-5A   | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 2x2 MIMO        | LTE B2   | 20           | 1100       | 1980                 | 4x4 MIMO        | LTE B5   | 10           | 2525       | 881.5                | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.06                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2C]-5A      | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 898        | 1959.8               | 4x4 MIMO        | LTE B5   | 10           | 2525       | 881.5                | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.08                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-2A-12A  | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 1100       | 1980                 | 2x2 MIMO        | LTE B12  | 10           | 5095       | 737.5                | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.06                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-2A-12A  | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 2x2 MIMO        | LTE B2   | 20           | 1100       | 1980                 | 4x4 MIMO        | LTE B12  | 10           | 5095       | 737.5                | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.10                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2C]-12A     | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 898        | 1959.8               | 4x4 MIMO        | LTE B12  | 10           | 5095       | 737.5                | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.12                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-2A-13A  | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 1100       | 1980                 | 2x2 MIMO        | LTE B13  | 10           | 5230       | 751                  | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.10                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-2A-13A  | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 2x2 MIMO        | LTE B2   | 20           | 1100       | 1980                 | 4x4 MIMO        | LTE B13  | 10           | 5230       | 751                  | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.15                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-2A-14A  | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 1100       | 1980                 | 2x2 MIMO        | LTE B14  | 10           | 5330       | 763                  | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.11                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-2A-14A  | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 2x2 MIMO        | LTE B2   | 20           | 1100       | 1980                 | 4x4 MIMO        | LTE B14  | 10           | 5330       | 763                  | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.11                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-2A-29A  | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 1100       | 1980                 | 2x2 MIMO        | LTE B29  | 10           | 9715       | 722.5                | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.06                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-2A-29A  | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 2x2 MIMO        | LTE B2   | 20           | 1100       | 1980                 | 4x4 MIMO        | LTE B29  | 10           | 9715       | 722.5                | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.08                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2C]-29A     | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 898        | 1959.8               | 4x4 MIMO        | LTE B29  | 10           | 9715       | 722.5                | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.09                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2C]-30A     | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 898        | 1959.8               | 4x4 MIMO        | LTE B30  | 10           | 9820       | 2355                 | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.15                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-2A-30A  | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 1100       | 1980                 | 2x2 MIMO        | LTE B30  | 10           | 9820       | 2355                 | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.10                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-2A-30A  | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 2x2 MIMO        | LTE B2   | 20           | 1100       | 1980                 | 4x4 MIMO        | LTE B30  | 10           | 9820       | 2355                 | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.10                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-2A-46A  | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 1100       | 1980                 | 4x4 MIMO        | LTE B46  | 20           | 50665      | 5537.5               | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.17                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-2A-46A  | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 2x2 MIMO        | LTE B2   | 20           | 1100       | 1980                 | 2x2 MIMO        | LTE B46  | 20           | 50665      | 5537.5               | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.09                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-2A-66A  | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 1100       | 1980                 | 2x2 MIMO        | LTE B66  | 20           | 66786      | 2145                 | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.11                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-2A-66A  | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 2x2 MIMO        | LTE B2   | 20           | 1100       | 1980                 | 4x4 MIMO        | LTE B66  | 20           | 66786      | 2145                 | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.11                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2C]-66A     | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 898        | 1959.8               | 4x4 MIMO        | LTE B66  | 20           | 66786      | 2145                 | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.12                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2C]-66A     | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 2x2 MIMO        | LTE B2   | 20           | 898        | 1959.8               | 2x2 MIMO        | LTE B66  | 20           | 66786      | 2145                 | 4x4 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.11                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-66B     | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 2x2 MIMO        | LTE B66  | 15           | 66786      | 2145                 | 4x4 MIMO        | LTE B66  | 5            | 66879      | 2154.3               | 4x4 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.06                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-66C     | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 2x2 MIMO        | LTE B66  | 20           | 66786      | 2145                 | 4x4 MIMO        | LTE B66  | 20           | 66984      | 2164.8               | 4x4 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.08                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-66A-66A | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 2x2 MIMO        | LTE B66  | 20           | 66786      | 2145                 | 4x4 MIMO        | LTE B66  | 20           | 66984      | 2164.8               | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.07                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-2A-71A  | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 1100       | 1980                 | 2x2 MIMO        | LTE B71  | 20           | 68761      | 634.5                | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.07                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-2A-71A  | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 2x2 MIMO        | LTE B2   | 20           | 1100       | 1980                 | 4x4 MIMO        | LTE B71  | 20           | 68761      | 634.5                | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.15                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-4A-5A   | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 4x4 MIMO        | LTE B4   | 20           | 2175       | 2132.5               | 2x2 MIMO        | LTE B5   | 10           | 2525       | 881.5                | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.09                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-4A-5A   | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 2x2 MIMO        | LTE B4   | 20           | 2175       | 2132.5               | 4x4 MIMO        | LTE B5   | 10           | 2525       | 881.5                | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.10                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-4A-12A  | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 4x4 MIMO        | LTE B4   | 20           | 2175       | 2132.5               | 2x2 MIMO        | LTE B12  | 10           | 5095       | 737.5                | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.04                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-4A-12A  | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 2x2 MIMO        | LTE B4   | 20           | 2175       | 2132.5               | 4x4 MIMO        | LTE B12  | 10           | 5095       | 737.5                | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.07                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-4A-13A  | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 4x4 MIMO        | LTE B4   | 20           | 2175       | 2132.5               | 2x2 MIMO        | LTE B13  | 10           | 5230       | 751                  | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.06                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-4A-13A  | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 2x2 MIMO        | LTE B4   | 20           | 2175       | 2132.5               | 4x4 MIMO        | LTE B13  | 10           | 5230       | 751                  | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.03                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-4A-29A  | LTE B2   | 20           | 18700      | 18600                | 64QAM | 1         | 0                | 700        | 1940                 | 4x4 MIMO        | LTE B4   | 20           | 2175       | 2132.5               | 2x2 MIMO        | LTE B29  | 10           | 9715       | 722.5                | 2x2 MIMO        | -        | -            | -          | -                    | -               | -                                     | 15.05                             | 15.39 |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |
| CA [2A]-4A-29A  | LTE B2   | 20           | 18700      | 18                   |       |           |                  |            |                      |                 |          |              |            |                      |                 |          |              |            |                      |                 |          |              |            |                      |                 |                                       |                                   |       |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |

**Table 74**  
**Output Powers – Ant 2B**

| PCC            |          |              |              |                      |       |           |                  |              |                      |                 |          |              |              | SCC 1                |                 |          |              | SCC 2        |                      |                 |          | SCC 3        |              |                      |                 | Power                                 |                                   |       |       |
|----------------|----------|--------------|--------------|----------------------|-------|-----------|------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|-------|-------|
| Combination    | PCC Band | PCC BW [MHz] | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | Mod.  | PCC UL RB | PCC UL RB Offset | PCC [DL] Ch. | PCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |       |
| CA [2A]-4A     | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                     | 15.25                             | 15.30 |       |
| CA [2A]-4A     | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                     | 15.24                             | 15.30 |       |
| CA [2A]-12A    | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                     | 15.25                             | 15.30 |       |
| CA [2A]-17A    | LTE B2   | 10           | 18650        | 1855                 | 16QAM | 1         | 0                | 650          | 1935                 | 4x4 MIMO        | LTE B17  | 10           | 5790         | 740                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                     | 14.91                             | 15.30 |       |
| CA [2A]-29A    | LTE B2   | 10           | 18650        | 1855                 | 16QAM | 1         | 0                | 650          | 1935                 | 4x4 MIMO        | LTE B29  | 10           | 9715         | 722.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                     | 14.93                             | 15.30 |       |
| CA [2A]-66A    | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                     | 15.20                             | 15.30 |       |
| CA [2A]-166A   | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                     | 15.27                             | 15.30 |       |
| CA [2A]-2A-4A  | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 1100         | 1980                 | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.20 | 15.30 |
| CA [2A]-2A-4A  | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 2x2 MIMO        | LTE B2   | 20           | 1100         | 1980                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.21 | 15.30 |
| CA [2A]-14A-4A | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | LTE B4   | 10           | 2350         | 2150                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.27 | 15.30 |
| CA [2A]-2A-5A  | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 1100         | 1980                 | 2x2 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.18 | 15.30 |
| CA [2A]-2A-5A  | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 2x2 MIMO        | LTE B2   | 20           | 1100         | 1980                 | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.28 | 15.30 |
| CA [2C]-5A     | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 898          | 1959.8               | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.19 | 15.30 |
| CA [2A]-2A-12A | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 1100         | 1980                 | 2x2 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.18 | 15.30 |
| CA [2A]-2A-12A | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 2x2 MIMO        | LTE B2   | 20           | 1100         | 1980                 | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.26 | 15.30 |
| CA [2C]-12A    | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 898          | 1959.8               | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.19 | 15.30 |
| CA [2A]-2A-13A | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 1100         | 1980                 | 2x2 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.18 | 15.30 |
| CA [2A]-2A-13A | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 2x2 MIMO        | LTE B2   | 20           | 1100         | 1980                 | 4x4 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.28 | 15.30 |
| CA [2A]-2A-14A | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 1100         | 1980                 | 2x2 MIMO        | LTE B14  | 10           | 5330         | 763                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.19 | 15.30 |
| CA [2A]-2A-14A | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 2x2 MIMO        | LTE B2   | 20           | 1100         | 1980                 | 4x4 MIMO        | LTE B14  | 10           | 5330         | 763                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.27 | 15.30 |
| CA [2A]-2A-29A | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 1100         | 1980                 | 2x2 MIMO        | LTE B29  | 10           | 9715         | 722.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.22 | 15.30 |
| CA [2A]-2A-29A | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 2x2 MIMO        | LTE B2   | 20           | 1100         | 1980                 | 4x4 MIMO        | LTE B29  | 10           | 9715         | 722.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.27 | 15.30 |
| CA [2C]-29A    | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 898          | 1959.8               | 4x4 MIMO        | LTE B29  | 10           | 9715         | 722.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.20 | 15.30 |
| CA 2C-30A      | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 898          | 1959.8               | 2x2 MIMO        | LTE B30  | 10           | 9820         | 2355                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.20 | 15.30 |
| CA [2A]-2A-30A | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 1100         | 1980                 | 2x2 MIMO        | LTE B30  | 10           | 9820         | 2355                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.19 | 15.30 |
| CA [2A]-2A-30A | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 2x2 MIMO        | LTE B2   | 20           | 1100         | 1980                 | 4x4 MIMO        | LTE B30  | 10           | 9820         | 2355                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.27 | 15.30 |
| CA [2A]-2A-46A | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 1100         | 1980                 | 2x2 MIMO        | LTE B46  | 20           | 50665        | 5537.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.16 | 15.30 |
| CA [2A]-2A-46A | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 2x2 MIMO        | LTE B2   | 20           | 1100         | 1980                 | 4x4 MIMO        | LTE B46  | 20           | 50665        | 5537.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.28 | 15.30 |
| CA [2A]-2A-66A | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 1100         | 1980                 | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.17 | 15.30 |
| CA [2A]-2A-66A | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 2x2 MIMO        | LTE B2   | 20           | 1100         | 1980                 | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.26 | 15.30 |
| CA [2C]-66A    | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 898          | 1959.8               | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.19 | 15.30 |
| CA 2C-166A     | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 2x2 MIMO        | LTE B2   | 20           | 898          | 1959.8               | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.27 | 15.30 |
| CA 2A-166B     | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 2x2 MIMO        | LTE B66  | 15           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 5            | 66879        | 2154.3               | 4x4 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.20 | 15.30 |
| CA 2A-166C     | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 20           | 66984        | 2164.8               | 4x4 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.21 | 15.30 |
| CA 2A-166A-66A | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.28 | 15.30 |
| CA [2A]-71A    | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 4x4 MIMO        | LTE B2   | 20           | 1100         | 1980                 | 2x2 MIMO        | LTE B71  | 20           | 68761        | 634.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.25 | 15.30 |
| CA [2A]-71A    | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 2x2 MIMO        | LTE B2   | 20           | 1100         | 1980                 | 4x4 MIMO        | LTE B71  | 20           | 68761        | 634.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.28 | 15.30 |
| CA [2A]-4A-5A  | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.19 | 15.30 |
| CA [2A]-14A-5A | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 4x4 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.26 | 15.30 |
| CA [2A]-4A-12A | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.25 | 15.30 |
| CA 2A-4A-12A   | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 4x4 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.28 | 15.30 |
| CA [2A]-4A-13A | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.19 | 15.30 |
| CA 2A-4A-13A   | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | LTE B13  | 10           | 5230         | 751                  | 4x4 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 15.27 | 15.30 |
| CA [2A]-4A-29A | LTE B2   | 20           | 18700        | 1860                 | QPSK  | 1         | 0                | 700          | 1940                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2                    |                 |          |              |              |                      |                 |          |              |              |                      |                 |                                       |                                   |       |       |

**Table 75**  
**Output Powers – Ant 4A**

| Combination | PCC Band | PCC BW [MHz] | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | Mod. | PCC UL RB | PCC UL RB Offset | PCC [DL] Ch. | PCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. |
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**Table 76**  
**Output Powers – Ant 4B**

| Combination     | PCC Band | PCC BW [MHz] | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | Mod.  | PCC UL RB | PCC UL RB Offset | PCC [DL] Ch. | PCC [DL] Freq. [MHz] | DL Ant. Config. | SCC 1    |              |              |                      | SCC 2           |          |              |              | SCC 3                |                 |          |              | Power        |                      |                 |                                       |                                   |       |       |
|-----------------|----------|--------------|--------------|----------------------|-------|-----------|------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|-------|-------|
|                 |          |              |              |                      |       |           |                  |              |                      |                 | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled [dBm] | LTE Single Carrier Tx Power [dBm] |       |       |
| CA [2A]-4A      | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | 14.20                                 | 14.50                             |       |       |
| CA [2A]-4A      | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                     | 14.20                             | 14.50 |       |
| CA [2A]-12A     | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                     | 14.21                             | 14.50 |       |
| CA [2A]-17A     | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 4x4 MIMO        | LTE B17  | 10           | 5790         | 740                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                     | 14.20                             | 14.50 |       |
| CA [2A]-29A     | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 4x4 MIMO        | LTE B29  | 10           | 9715         | 722.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                     | 14.21                             | 14.50 |       |
| CA [2A]-66A     | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                     | 14.20                             | 14.50 |       |
| CA [2A]-66A     | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -                                     | 14.18                             | 14.50 |       |
| CA [2A]-2A-4A   | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 4x4 MIMO        | LTE B2   | 20           | 700          | 1940                 | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.11 | 14.50 |
| CA [2A]-2A-4A   | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 2x2 MIMO        | LTE B2   | 20           | 700          | 1940                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.19 | 14.50 |
| CA [2A]-4A-4A   | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | LTE B4   | 10           | 2350         | 2150                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.21 | 14.50 |
| CA [2A]-2A-5A   | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 4x4 MIMO        | LTE B2   | 20           | 700          | 1940                 | 2x2 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.14 | 14.50 |
| CA [2A]-2A-5A   | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 2x2 MIMO        | LTE B2   | 20           | 700          | 1940                 | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.19 | 14.50 |
| CA [2C]-5A      | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 4x4 MIMO        | LTE B2   | 20           | 781          | 1948.1               | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.18 | 14.50 |
| CA [2A]-2A-12A  | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 4x4 MIMO        | LTE B2   | 20           | 700          | 1940                 | 2x2 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.15 | 14.50 |
| CA [2A]-2A-12A  | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 2x2 MIMO        | LTE B2   | 20           | 700          | 1940                 | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.19 | 14.50 |
| CA [2C]-12A     | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 4x4 MIMO        | LTE B2   | 20           | 781          | 1948.1               | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.17 | 14.50 |
| CA [2A]-2A-13A  | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 4x4 MIMO        | LTE B2   | 20           | 700          | 1940                 | 2x2 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.14 | 14.50 |
| CA [2A]-2A-13A  | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 2x2 MIMO        | LTE B2   | 20           | 700          | 1940                 | 4x4 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.15 | 14.50 |
| CA [2A]-2A-14A  | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 4x4 MIMO        | LTE B2   | 20           | 700          | 1940                 | 2x2 MIMO        | LTE B14  | 10           | 5330         | 763                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.07 | 14.50 |
| CA [2A]-2A-14A  | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 2x2 MIMO        | LTE B2   | 20           | 700          | 1940                 | 4x4 MIMO        | LTE B14  | 10           | 5330         | 763                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.20 | 14.50 |
| CA [2A]-2A-29A  | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 4x4 MIMO        | LTE B2   | 20           | 700          | 1940                 | 2x2 MIMO        | LTE B29  | 10           | 9715         | 722.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.07 | 14.50 |
| CA [2A]-2A-29A  | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 2x2 MIMO        | LTE B2   | 20           | 700          | 1940                 | 4x4 MIMO        | LTE B29  | 10           | 9715         | 722.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.20 | 14.50 |
| CA [2C]-29A     | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 4x4 MIMO        | LTE B2   | 20           | 781          | 1948.1               | 4x4 MIMO        | LTE B29  | 10           | 9715         | 722.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.10 | 14.50 |
| CA 2C-[30A]     | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 2x2 MIMO        | LTE B2   | 20           | 781          | 1948.1               | 2x2 MIMO        | LTE B30  | 10           | 9820         | 2355                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.17 | 14.50 |
| CA [2A]-2A-30A  | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 4x4 MIMO        | LTE B2   | 20           | 700          | 1940                 | 2x2 MIMO        | LTE B30  | 10           | 9820         | 2355                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.15 | 14.50 |
| CA [2A]-2A-30A  | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 2x2 MIMO        | LTE B2   | 20           | 700          | 1940                 | 4x4 MIMO        | LTE B30  | 10           | 9820         | 2355                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.20 | 14.50 |
| CA [2A]-2A-46A  | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 4x4 MIMO        | LTE B2   | 20           | 700          | 1940                 | 2x2 MIMO        | LTE B46  | 20           | 50665        | 5537.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.14 | 14.50 |
| CA [2A]-2A-46A  | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 2x2 MIMO        | LTE B2   | 20           | 700          | 1940                 | 4x4 MIMO        | LTE B46  | 20           | 50665        | 5537.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.18 | 14.50 |
| CA [2A]-2A-66A  | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 4x4 MIMO        | LTE B2   | 20           | 700          | 1940                 | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.13 | 14.50 |
| CA [2A]-2A-66A  | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 2x2 MIMO        | LTE B2   | 20           | 700          | 1940                 | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.19 | 14.50 |
| CA [2C]-66A     | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 4x4 MIMO        | LTE B2   | 20           | 781          | 1948.1               | 4x4 MIMO        | LTE B66  | 5            | 66879        | 2154.3               | 4x4 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.18 | 14.50 |
| CA 2A-[66B]     | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 20           | 66879        | 2154.3               | 4x4 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.21 | 14.50 |
| CA [2A]-66A-66A | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.19 | 14.50 |
| CA [2A]-71A     | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 4x4 MIMO        | LTE B2   | 20           | 700          | 1940                 | 2x2 MIMO        | LTE B71  | 20           | 68761        | 634.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.18 | 14.50 |
| CA [2A]-71A     | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 2x2 MIMO        | LTE B2   | 20           | 700          | 1940                 | 4x4 MIMO        | LTE B71  | 20           | 68761        | 634.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.20 | 14.50 |
| CA [2A]-4A-5A   | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.10 | 14.50 |
| CA [2A]-4A-5A   | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 4x4 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.18 | 14.50 |
| CA [2A]-4A-12A  | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.13 | 14.50 |
| CA [2A]-4A-12A  | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 4x4 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.20 | 14.50 |
| CA [2A]-4A-13A  | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | LTE B13  | 10           | 5230         | 751                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.14 | 14.50 |
| CA [2A]-4A-13A  | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | LTE B13  | 10           | 5230         | 751                  | 4x4 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.16 | 14.50 |
| CA [2A]-4A-29A  | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | LTE B29  | 10           | 9715         | 722.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -                                     | -                                 | 14.20 | 14.50 |
| CA [2A]-4A-29A  | LTE B2   | 10           | 18925        | 1882.5               | 16QAM | 1         | 49               | 925          | 1962.5               | 2x2 MIMO        | LTE B4   | 20           |              |                      |                 |          |              |              |                      |                 |          |              |              |                      |                 |                                       |                                   |       |       |

## 1.4.11 LTE Band 25 as PCC

Table 77  
Output Powers – Ant 2A

| Combination      | PCC Band | PCC          |              |                      |       |            |                  |              |                      |                 | SCC 1    |              |              |                      | SCC 2           |          |              |              |                      | Power           |                                       |                                   |
|------------------|----------|--------------|--------------|----------------------|-------|------------|------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|
|                  |          | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod.  | PCC UL# RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA_5A-[25A]      | LTE B25  | 20           | 26140        | 1860                 | 64QAM | 1          | 0                | 8140         | 1940                 | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | 15.09                                 | 15.39                             |
| CA_[25A]-26A     | LTE B25  | 3            | 26055        | 1851.5               | 64QAM | 1          | 7                | 8055         | 1931.5               | 4x4 MIMO        | LTE B26  | 10           | 8865         | 876.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | 15.02                                 | 15.40                             |
| CA_[25A]-25A-26A | LTE B25  | 20           | 26140        | 1860                 | 64QAM | 1          | 0                | 8140         | 1940                 | 4x4 MIMO        | LTE B25  | 20           | 8590         | 1985                 | 2x2 MIMO        | LTE B26  | 5            | 8865         | 876.5                | 2x2 MIMO        | 15.03                                 | 15.39                             |
| CA_[25A]-25A-26A | LTE B25  | 20           | 26140        | 1860                 | 64QAM | 1          | 0                | 8140         | 1940                 | 2x2 MIMO        | LTE B25  | 20           | 8590         | 1985                 | 4x4 MIMO        | LTE B26  | 5            | 8865         | 876.5                | 2x2 MIMO        | 15.02                                 | 15.39                             |

Table 78  
Output Powers – Ant 2B

| Combination      | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod. | PCC        |                  |              |                      |                      | DL Ant. Config. | SCC 1        |              |                      |                 | SCC 2    |              |              |                      | Power           |                                       |                                   |
|------------------|----------|--------------|--------------|----------------------|------|------------|------------------|--------------|----------------------|----------------------|-----------------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|
|                  |          |              |              |                      |      | PCC UL# RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] | PCC (DL) Freq. [MHz] |                 | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA_5A-[25A]      | LTE B25  | 20           | 26140        | 1860                 | QPSK | 1          | 0                | 8140         | 1940                 | 4x4 MIMO             | LTE B5          | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | 15.29                                 | 15.30                             |
| CA_[25A]-26A     | LTE B25  | 20           | 26140        | 1860                 | QPSK | 1          | 0                | 8140         | 1940                 | 4x4 MIMO             | LTE B26         | 10           | 8865         | 876.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | 15.29                                 | 15.30                             |
| CA_[25A]-25A-26A | LTE B25  | 20           | 26140        | 1860                 | QPSK | 1          | 0                | 8140         | 1940                 | 4x4 MIMO             | LTE B25         | 20           | 8590         | 1985                 | 2x2 MIMO        | LTE B26  | 5            | 8865         | 876.5                | 2x2 MIMO        | 15.29                                 | 15.30                             |
| CA_[25A]-25A-26A | LTE B25  | 20           | 26140        | 1860                 | QPSK | 1          | 0                | 8140         | 1940                 | 2x2 MIMO             | LTE B25         | 20           | 8590         | 1985                 | 4x4 MIMO        | LTE B26  | 5            | 8865         | 876.5                | 2x2 MIMO        | 15.24                                 | 15.30                             |

Table 79  
Output Powers – Ant 4A

| Combination      | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod.  | PCC        |                  |              |                      |          | DL Ant. Config. | SCC 1        |              |                      |                 | SCC 2    |              |              |                      | Power           |                                       |                                   |
|------------------|----------|--------------|--------------|----------------------|-------|------------|------------------|--------------|----------------------|----------|-----------------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|
|                  |          |              |              |                      |       | PCC UL# RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] | SCC Band |                 | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA_5A-[25A]      | LTE B25  | 15           | 26365        | 1882.5               | 16QAM | 1          | 0                | 8365         | 1962.5               | 4x4 MIMO | LTE B5          | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | 14.75           | 15.08                                 |                                   |
| CA_[25A]-26A     | LTE B25  | 15           | 26365        | 1882.5               | 16QAM | 1          | 0                | 8365         | 1962.5               | 4x4 MIMO | LTE B26         | 10           | 8865         | 876.5                | 2x2 MIMO        | -        | -            | -            | -                    | 14.76           | 15.08                                 |                                   |
| CA_[25A]-25A-26A | LTE B25  | 15           | 26365        | 1882.5               | 16QAM | 1          | 0                | 8365         | 1962.5               | 4x4 MIMO | LTE B25         | 20           | 8140         | 1940                 | 2x2 MIMO        | LTE B26  | 5            | 8865         | 876.5                | 2x2 MIMO        | 14.67                                 | 15.08                             |
| CA_[25A]-25A-26A | LTE B25  | 15           | 26365        | 1882.5               | 16QAM | 1          | 0                | 8365         | 1962.5               | 2x2 MIMO | LTE B25         | 20           | 8140         | 1940                 | 4x4 MIMO        | LTE B26  | 5            | 8865         | 876.5                | 2x2 MIMO        | 14.77                                 | 15.08                             |

Table 80  
Output Powers – Ant 4B

| Combination      | PCC Band | PCC BW [MHz] | PCC (UL) Freq. [MHz] | Mod.   | PCC        |                  |              |                      |              | DL Ant. Config. | SCC Band | SCC 1        |                      |                 |          | SCC 2        |              |                      |                 | Power                                 |                                   |
|------------------|----------|--------------|----------------------|--------|------------|------------------|--------------|----------------------|--------------|-----------------|----------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|
|                  |          |              |                      |        | PCC UL# RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] | SCC BW [MHz] |                 |          | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA_5A-[25A]      | LTE B25  | 10           | 26365                | 1882.5 | 16QAM      | 1                | 49           | 8365                 | 1962.5       | 4x4 MIMO        | LTE B5   | 10           | 2525                 | 881.5           | 2x2 MIMO | -            | -            | -                    | -               | 14.20                                 | 14.50                             |
| CA_[25A]-26A     | LTE B25  | 10           | 26365                | 1882.5 | 16QAM      | 1                | 49           | 8365                 | 1962.5       | 4x4 MIMO        | LTE B26  | 10           | 8865                 | 876.5           | 2x2 MIMO | -            | -            | -                    | -               | 14.21                                 | 14.50                             |
| CA_[25A]-25A-26A | LTE B25  | 10           | 26365                | 1882.5 | 16QAM      | 1                | 49           | 8365                 | 1962.5       | 4x4 MIMO        | LTE B25  | 20           | 8140                 | 1940            | 2x2 MIMO | LTE B26      | 5            | 8865                 | 876.5           | 14.11                                 | 14.50                             |
| CA_[25A]-25A-26A | LTE B25  | 10           | 26365                | 1882.5 | 16QAM      | 1                | 49           | 8365                 | 1962.5       | 2x2 MIMO        | LTE B25  | 20           | 8140                 | 1940            | 4x4 MIMO | LTE B26      | 5            | 8865                 | 876.5           | 14.13                                 | 14.50                             |

## 1.4.12 LTE Band 30 as PCC

Table 81  
Output Powers – Ant 2A

| Combination      | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod. | PCC       |                  |              |                      | DL Ant. Config. | SCC Band | SCC 1        |              |                      |                 | SCC 2    |              |              |                      | SCC 3           |          |              |              | Power                |                 |                                       |                                   |
|------------------|----------|--------------|--------------|----------------------|------|-----------|------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|
|                  |          |              |              |                      |      | PCC UL RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] |                 |          | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA [2C]-30A      | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1         | 0                | 9820         | 2355                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B2   | 20           | 702          | 1940.2               | 4x4 MIMO        | -        | -            | -            | -                    | -               | 13.14                                 | 13.28                             |
| CA 2C-[30A]      | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1         | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B2   | 20           | 702          | 1940.2               | 2x2 MIMO        | -        | -            | -            | -                    | -               | 13.23                                 | 13.28                             |
| CA [2A]-2A-30A   | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1         | 0                | 9820         | 2355                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B2   | 20           | 700          | 1940                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 13.20                                 | 13.28                             |
| CA [2A]-4A-30A   | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1         | 0                | 9820         | 2355                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | 13.24                                 | 13.28                             |
| CA [2A]-6A-30A   | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1         | 0                | 9820         | 2355                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | -        | -            | -            | -                    | -               | 13.15                                 | 13.28                             |
| CA 2A-4A-[30A]   | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1         | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | 13.24                                 | 13.28                             |
| CA 2A-5A-[30A]   | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1         | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | 13.25                                 | 13.28                             |
| CA 2A-12A-[30A]  | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1         | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | 13.27                                 | 13.28                             |
| CA 2A-14A-[30A]  | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1         | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B14  | 10           | 5330         | 763                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | 13.27                                 | 13.28                             |
| CA 2A-29A-[30A]  | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1         | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B29  | 10           | 9715         | 722.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | 13.26                                 | 13.28                             |
| CA [2A]-30A-66A  | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1         | 0                | 9820         | 2355                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 13.22                                 | 13.28                             |
| CA 2A-[30A]-66A  | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1         | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 13.25                                 | 13.28                             |
| CA 2A-30A-[66A]  | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1         | 0                | 9820         | 2355                 | 2x2 MIMO        | LTE B4   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | 13.17                                 | 13.28                             |
| CA [6A]-4A-30A   | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1         | 0                | 9820         | 2355                 | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | LTE B4   | 10           | 2350         | 2150                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 13.20                                 | 13.28                             |
| CA 4A-5A-[30A]   | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1         | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | 13.27                                 | 13.28                             |
| CA 4A-12A-[30A]  | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1         | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | 13.26                                 | 13.28                             |
| CA 4A-29A-[30A]  | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1         | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | LTE B29  | 10           | 9715         | 722.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | 13.25                                 | 13.28                             |
| CA 5A-[30A]-66A  | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1         | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 13.27                                 | 13.28                             |
| CA 12A-[30A]-66A | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1         | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 13.26                                 | 13.28                             |
| CA 14A-[30A]-66A | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1         | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B14  | 10           | 5330         | 763                  | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 13.27                                 | 13.28                             |
| CA 29A-[30A]-66A | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1         | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B29  | 10           | 9715         | 722.5                | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 13.13                                 | 13.28                             |
| CA 30A-[66A]-66A | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1         | 0                | 9820         | 2355                 | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 13.13                                 | 13.28                             |
| CA 2A-5A-[30A]   | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1         | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B5   | 10           | 900          | 1960                 | 2x2 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | LTE B5   | 5            | 2453         | 874.3                | 2x2 MIMO        | 13.23                                 | 13.28                             |
| CA 5B-[30A]-66A  | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1         | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | LTE B5   | 5            | 2453         | 874.3                | 2x2 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | 13.23                                 | 13.28                             |

|                                    |                                                                                                                                   |                              |                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|
| FCC ID: BCGA2014                   |  <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | SAR EVALUATION REPORT        | Reviewed by:<br>Quality Manager |
| Test Dates:<br>09/06/18 – 09/21/18 | DUT Type:<br>Tablet Device                                                                                                        | APPENDIX H:<br>Page 32 of 39 |                                 |

**Table 82**  
**Output Powers – Ant 2B**

| PCC              |          |              |              |                      |       |            |                  |              |                      |                 | SCC1     |              |              |                      |                 | SCC2     |              |              |                      |                 | SCC3     |              |              |                      |                 | Power                                 |                                   |
|------------------|----------|--------------|--------------|----------------------|-------|------------|------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|
| Combination      | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod.  | PCC UL# RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA [2C]-30A      | LTE B30  | 5            | 27710        | 2310                 | 64QAM | 1          | 24               | 9820         | 2355                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B2   | 20           | 702          | 1940.2               | 4x4 MIMO        | -        | -            | -            | -                    | -               | 13.95                                 | 14.20                             |
| CA 2C-[30A]      | LTE B30  | 5            | 27710        | 2310                 | 64QAM | 1          | 24               | 9820         | 2355                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B2   | 20           | 702          | 1940.2               | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.03                                 | 14.20                             |
| CA [2A]-2A-30A   | LTE B30  | 5            | 27710        | 2310                 | 64QAM | 1          | 24               | 9820         | 2355                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B2   | 20           | 700          | 1940                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.01                                 | 14.20                             |
| CA [2A]-4A-30A   | LTE B30  | 5            | 27710        | 2310                 | 64QAM | 1          | 24               | 9820         | 2355                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.00                                 | 14.20                             |
| CA 2A-[A4]-30A   | LTE B30  | 5            | 27710        | 2310                 | 64QAM | 1          | 24               | 9820         | 2355                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | -        | -            | -            | -                    | -               | 13.98                                 | 14.20                             |
| CA 2A-4A-[30A]   | LTE B30  | 5            | 27710        | 2310                 | 64QAM | 1          | 24               | 9820         | 2355                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.08                                 | 14.20                             |
| CA 2A-5A-[30A]   | LTE B30  | 5            | 27710        | 2310                 | 64QAM | 1          | 24               | 9820         | 2355                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.06                                 | 14.20                             |
| CA 2A-12A-[30A]  | LTE B30  | 5            | 27710        | 2310                 | 64QAM | 1          | 24               | 9820         | 2355                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.04                                 | 14.20                             |
| CA 2A-14A-[30A]  | LTE B30  | 5            | 27710        | 2310                 | 64QAM | 1          | 24               | 9820         | 2355                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B14  | 10           | 5330         | 763                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.01                                 | 14.20                             |
| CA 2A-29A-[30A]  | LTE B30  | 5            | 27710        | 2310                 | 64QAM | 1          | 24               | 9820         | 2355                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B29  | 10           | 9715         | 722.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.06                                 | 14.20                             |
| CA [2A]-30A-66A  | LTE B30  | 5            | 27710        | 2310                 | 64QAM | 1          | 24               | 9820         | 2355                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 13.98                                 | 14.20                             |
| CA 2A-[30A]-66A  | LTE B30  | 5            | 27710        | 2310                 | 64QAM | 1          | 24               | 9820         | 2355                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.05                                 | 14.20                             |
| CA 2A-[30A]-66A  | LTE B30  | 5            | 27710        | 2310                 | 64QAM | 1          | 24               | 9820         | 2355                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | 14.00                                 | 14.20                             |
| CA [A4]-4A-30A   | LTE B30  | 5            | 27710        | 2310                 | 64QAM | 1          | 24               | 9820         | 2355                 | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | LTE B4   | 10           | 2350         | 2150                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 13.98                                 | 14.20                             |
| CA 4A-5A-[30A]   | LTE B30  | 5            | 27710        | 2310                 | 64QAM | 1          | 24               | 9820         | 2355                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.03                                 | 14.20                             |
| CA 4A-12A-[30A]  | LTE B30  | 5            | 27710        | 2310                 | 64QAM | 1          | 24               | 9820         | 2355                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.02                                 | 14.20                             |
| CA 4A-29A-[30A]  | LTE B30  | 5            | 27710        | 2310                 | 64QAM | 1          | 24               | 9820         | 2355                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | LTE B29  | 10           | 9715         | 722.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.00                                 | 14.20                             |
| CA 5A-[30A]-66A  | LTE B30  | 5            | 27710        | 2310                 | 64QAM | 1          | 24               | 9820         | 2355                 | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 13.98                                 | 14.20                             |
| CA 12A-[30A]-66A | LTE B30  | 5            | 27710        | 2310                 | 64QAM | 1          | 24               | 9820         | 2355                 | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.01                                 | 14.20                             |
| CA 14A-[30A]-66A | LTE B30  | 5            | 27710        | 2310                 | 64QAM | 1          | 24               | 9820         | 2355                 | 4x4 MIMO        | LTE B14  | 10           | 5330         | 763                  | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.07                                 | 14.20                             |
| CA 29A-[30A]-66A | LTE B30  | 5            | 27710        | 2310                 | 64QAM | 1          | 24               | 9820         | 2355                 | 4x4 MIMO        | LTE B29  | 10           | 9715         | 722.5                | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.08                                 | 14.20                             |
| CA 30A-[66A]-66A | LTE B30  | 5            | 27710        | 2310                 | 64QAM | 1          | 24               | 9820         | 2355                 | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 13.92                                 | 14.20                             |
| CA 2A-5A-[30A]   | LTE B30  | 5            | 27710        | 2310                 | 64QAM | 1          | 24               | 9820         | 2355                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | LTE B5   | 5            | 2453         | 874.3                | 2x2 MIMO        | 14.06                                 | 14.20                             |
| CA 5B-[30A]-66A  | LTE B30  | 5            | 27710        | 2310                 | 64QAM | 1          | 24               | 9820         | 2355                 | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | LTE B5   | 5            | 2453         | 874.3                | 2x2 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | 14.07                                 | 14.20                             |

**Table 83**  
**Output Powers – Ant 4A**

| PCC              |          |              |              |                      |      |            |                  |              |                      |                 | SCC1     |              |              |                      | SCC2            |          |              |              | SCC3                 |                 |          |              | Power        |                      |                 |                                       |                                   |
|------------------|----------|--------------|--------------|----------------------|------|------------|------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|
| Combination      | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod. | PCC UL# RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA [2C]-30A      | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1          | 0                | 9820         | 2355                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B2   | 20           | 702          | 1940.2               | 4x4 MIMO        | -        | -            | -            | -                    | -               | 14.10                                 | 14.10                             |
| CA 2C-[30A]      | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1          | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B2   | 20           | 702          | 1940.2               | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.10                                 | 14.10                             |
| CA [2A]-2A-30A   | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1          | 0                | 9820         | 2355                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B2   | 20           | 700          | 1940                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.10                                 | 14.10                             |
| CA [2A]-4A-30A   | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1          | 0                | 9820         | 2355                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.09                                 | 14.10                             |
| CA 2A-[A4]-30A   | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1          | 0                | 9820         | 2355                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | -        | -            | -            | -                    | -               | 14.10                                 | 14.10                             |
| CA 2A-4A-[30A]   | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1          | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.10                                 | 14.10                             |
| CA 2A-5A-[30A]   | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1          | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.09                                 | 14.10                             |
| CA 2A-12A-[30A]  | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1          | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.10                                 | 14.10                             |
| CA 2A-14A-[30A]  | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1          | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B14  | 10           | 5330         | 763                  | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.10                                 | 14.10                             |
| CA 2A-29A-[30A]  | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1          | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B29  | 10           | 9715         | 722.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.09                                 | 14.10                             |
| CA [2A]-30A-66A  | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1          | 0                | 9820         | 2355                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.10                                 | 14.10                             |
| CA 2A-[30A]-66A  | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1          | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.10                                 | 14.10                             |
| CA 2A-[30A]-66A  | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1          | 0                | 9820         | 2355                 | 2x2 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | 14.10                                 | 14.10                             |
| CA [A4]-4A-30A   | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1          | 0                | 9820         | 2355                 | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | LTE B4   | 10           | 2350         | 2150                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.04                                 | 14.10                             |
| CA 4A-5A-[30A]   | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1          | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.06                                 | 14.10                             |
| CA 4A-12A-[30A]  | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1          | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.09                                 | 14.10                             |
| CA 4A-29A-[30A]  | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1          | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | LTE B29  | 10           | 9715         | 722.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.10                                 | 14.10                             |
| CA 5A-[30A]-66A  | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1          | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.05                                 | 14.10                             |
| CA 12A-[30A]-66A | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1          | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.10                                 | 14.10                             |
| CA 14A-[30A]-66A | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1          | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B14  | 10           | 5330         | 763                  | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.10                                 | 14.10                             |
| CA 29A-[30A]-66A | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1          | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B29  | 10           | 9715         | 722.5                | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.10                                 | 14.10                             |
| CA 30A-[66A]-66A | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1          | 0                | 9820         | 2355                 | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 14.02                                 | 14.10                             |
| CA 2A-5B-[30A]   | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1          | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B2   | 20           | 900          | 1960                 | 2x2 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | LTE B5   | 5            | 2453         | 874.3                | 2x2 MIMO        | 14.07                                 | 14.10                             |
| CA 5B-[30A]-66A  | LTE B30  | 10           | 27710        | 2310                 | QPSK | 1          | 0                | 9820         | 2355                 | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | LTE B5   | 5            | 2453         | 874.3                | 2x2 MIMO        | LTE B66  | 20           | 67236        | 2190                 | 2x2 MIMO        | 14.10                                 | 14.10                             |

## 1.4.13 LTE Band 7 as PCC

**Table 85**  
**Output Powers – Ant 2A**

| Combination      | PCC Band | PCC BW [MHz] | PCC [UL] Ch. | PCC  |            |                  |              | DL Ant. Config. | SCC 1                |          |              |              | DL Ant. Config. | SCC 2                |          |              |              | DL Ant. Config. | SCC 3                |          |              |              | Power                |                                       |                                   |       |       |
|------------------|----------|--------------|--------------|------|------------|------------------|--------------|-----------------|----------------------|----------|--------------|--------------|-----------------|----------------------|----------|--------------|--------------|-----------------|----------------------|----------|--------------|--------------|----------------------|---------------------------------------|-----------------------------------|-------|-------|
|                  |          |              |              | Mod. | PCC UL# RB | PCC UL RB Offset | PCC [DL] Ch. |                 | PCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Ch. |                 | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Ch. |                 | SCC [DL] Freq. [MHz] | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |       |
| CA 5A-7A         | LTE B7   | 20           | 20850        | 2510 | QPSK       | 1                | 0            | 2850            | 2630                 | 4x4 MIMO | LTE B5       | 10           | 2525            | 881.5                | 2x2 MIMO | -            | -            | -               | -                    | -        | -            | -            | -                    | -                                     | 14.10                             | 14.10 |       |
| CA 7B            | LTE B7   | 15           | 21100        | 2535 | 64QAM      | 1                | 36           | 3100            | 2655                 | 4x4 MIMO | LTE B7       | 5            | 3007            | 2645.7               | 4x4 MIMO | -            | -            | -               | -                    | -        | -            | -            | -                    | -                                     | 13.75                             | 14.10 |       |
| CA 7C [1]        | LTE B7   | 20           | 20850        | 2510 | QPSK       | 1                | 0            | 2850            | 2630                 | 4x4 MIMO | LTE B7       | 20           | 3048            | 2649.8               | 4x4 MIMO | -            | -            | -               | -                    | -        | -            | -            | -                    | -                                     | 14.06                             | 14.10 |       |
| CA 7A-12A        | LTE B7   | 20           | 20850        | 2510 | QPSK       | 1                | 0            | 2850            | 2630                 | 4x4 MIMO | LTE B12      | 10           | 5095            | 737.5                | 2x2 MIMO | -            | -            | -               | -                    | -        | -            | -            | -                    | -                                     | 14.10                             | 14.10 |       |
| CA 7A-46A [1]    | LTE B7   | 20           | 20850        | 2510 | QPSK       | 1                | 0            | 2850            | 2630                 | 4x4 MIMO | LTE B46      | 20           | 50665           | 5537.5               | 2x2 MIMO | -            | -            | -               | -                    | -        | -            | -            | -                    | -                                     | 14.05                             | 14.10 |       |
| CA 7A-46A        | LTE B7   | 20           | 20850        | 2510 | QPSK       | 1                | 0            | 2850            | 2630                 | 4x4 MIMO | LTE B66      | 20           | 66786           | 2145                 | 2x2 MIMO | -            | -            | -               | -                    | -        | -            | -            | -                    | -                                     | 14.06                             | 14.10 |       |
| CA 7A-66A        | LTE B7   | 20           | 20850        | 2510 | QPSK       | 1                | 0            | 2850            | 2630                 | 2x2 MIMO | LTE B66      | 20           | 66786           | 2145                 | 4x4 MIMO | -            | -            | -               | -                    | -        | -            | -            | -                    | -                                     | 14.09                             | 14.10 |       |
| CA 4A-4A-7A [1]  | LTE B7   | 20           | 20850        | 2510 | QPSK       | 1                | 0            | 2850            | 2630                 | 2x2 MIMO | LTE B4       | 20           | 2175            | 2132.5               | 4x4 MIMO | LTE B4       | 10           | 2350            | 2150                 | 2x2 MIMO | -            | -            | -                    | -                                     | -                                 | 14.07 | 14.10 |
| CA 4A-7A-7A      | LTE B7   | 20           | 20850        | 2510 | QPSK       | 1                | 0            | 2850            | 2630                 | 4x4 MIMO | LTE B7       | 20           | 3350            | 2680                 | 2x2 MIMO | LTE B4       | 20           | 2175            | 2132.5               | 2x2 MIMO | -            | -            | -                    | -                                     | -                                 | 14.07 | 14.10 |
| CA 4A-7A-7A      | LTE B7   | 20           | 20850        | 2510 | QPSK       | 1                | 0            | 2850            | 2630                 | 2x2 MIMO | LTE B7       | 20           | 3350            | 2680                 | 4x4 MIMO | LTE B4       | 20           | 2175            | 2132.5               | 2x2 MIMO | -            | -            | -                    | -                                     | -                                 | 14.06 | 14.10 |
| CA 4A-7A-12A [1] | LTE B7   | 20           | 20850        | 2510 | QPSK       | 1                | 0            | 2850            | 2630                 | 4x4 MIMO | LTE B4       | 20           | 2175            | 2132.5               | 2x2 MIMO | LTE B12      | 10           | 5095            | 737.5                | 2x2 MIMO | -            | -            | -                    | -                                     | -                                 | 14.02 | 14.10 |
| CA 7A-46C [1]    | LTE B7   | 20           | 20850        | 2510 | QPSK       | 1                | 0            | 2850            | 2630                 | 4x4 MIMO | LTE B46      | 20           | 50665           | 5537.7               | 2x2 MIMO | LTE B46      | 20           | 50467           | 5517.7               | 2x2 MIMO | -            | -            | -                    | -                                     | -                                 | 14.03 | 14.10 |
| CA 7A-46D [1]    | LTE B7   | 20           | 20850        | 2510 | QPSK       | 1                | 0            | 2850            | 2630                 | 4x4 MIMO | LTE B46      | 20           | 50665           | 5537.5               | 2x2 MIMO | LTE B46      | 20           | 50467           | 5517.7               | 2x2 MIMO | LTE B46      | 20           | 50863                | 5557.3                                | 2x2 MIMO                          | 14.05 | 14.10 |

**Table 86**  
**Output Powers – Ant 2B**

| Combination      | PCC Band | PCC BW [MHz] | PCC [UL] Ch. | PCC    |            |                  |              |                      |                 | SCC 1    |              |              |                      | SCC 2           |          |              |              | SCC 3                |                 |          |              | Power        |                      |                 |                                       |                                   |       |
|------------------|----------|--------------|--------------|--------|------------|------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|-------|
|                  |          |              |              | Mod.   | PCC UL# RB | PCC UL RB Offset | PCC [DL] Ch. | PCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |
| CA 5A-7A         | LTE B7   | 20           | 20850        | 2510   | 64QAM      | 1                | 99           | 2850                 | 2630            | 4x4 MIMO | LTE B5       | 10           | 2525                 | 881.5           | 2x2 MIMO | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | 12.59                                 | 13.00                             |       |
| CA 7B            | LTE B7   | 15           | 20825        | 2507.5 | QPSK       | 1                | 36           | 2825                 | 2627.5          | 4x4 MIMO | LTE B7       | 5            | 2918                 | 2636.8          | 4x4 MIMO | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | 12.91                                 | 13.00                             |       |
| CA 7C [1]        | LTE B7   | 20           | 20850        | 2510   | 64QAM      | 1                | 99           | 2850                 | 2630            | 4x4 MIMO | LTE B7       | 20           | 3048                 | 2649.8          | 4x4 MIMO | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | 12.58                                 | 13.00                             |       |
| CA 7A-12A        | LTE B7   | 20           | 20850        | 2510   | 64QAM      | 1                | 99           | 2850                 | 2630            | 4x4 MIMO | LTE B12      | 10           | 5095                 | 737.5           | 2x2 MIMO | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | 12.60                                 | 13.00                             |       |
| CA 7A-46A [1]    | LTE B7   | 20           | 20850        | 2510   | 64QAM      | 1                | 99           | 2850                 | 2630            | 4x4 MIMO | LTE B46      | 20           | 50665                | 5537.5          | 2x2 MIMO | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | 12.56                                 | 13.00                             |       |
| CA 7A-66A        | LTE B7   | 20           | 20850        | 2510   | 64QAM      | 1                | 99           | 2850                 | 2630            | 4x4 MIMO | LTE B66      | 20           | 66786                | 2145            | 2x2 MIMO | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | 12.54                                 | 13.00                             |       |
| CA 7A-66A        | LTE B7   | 20           | 20850        | 2510   | 64QAM      | 1                | 99           | 2850                 | 2630            | 2x2 MIMO | LTE B66      | 20           | 66786                | 2145            | 4x4 MIMO | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | 12.60                                 | 13.00                             |       |
| CA 4A-4A-7A [1]  | LTE B7   | 20           | 20850        | 2510   | 64QAM      | 1                | 99           | 2850                 | 2630            | 2x2 MIMO | LTE B4       | 20           | 2175                 | 2132.5          | 4x4 MIMO | LTE B4       | 10           | 2350                 | 2150            | 2x2 MIMO | -            | -            | -                    | -               | -                                     | 12.56                             | 13.00 |
| CA 4A-7A-7A      | LTE B7   | 20           | 20850        | 2510   | 64QAM      | 1                | 99           | 2850                 | 2630            | 4x4 MIMO | LTE B7       | 20           | 3350                 | 2680            | 2x2 MIMO | LTE B4       | 20           | 2175                 | 2132.5          | 2x2 MIMO | -            | -            | -                    | -               | -                                     | 12.51                             | 13.00 |
| CA 4A-7A-7A      | LTE B7   | 20           | 20850        | 2510   | 64QAM      | 1                | 99           | 2850                 | 2630            | 2x2 MIMO | LTE B7       | 20           | 3350                 | 2680            | 4x4 MIMO | LTE B4       | 20           | 2175                 | 2132.5          | 2x2 MIMO | -            | -            | -                    | -               | -                                     | 12.52                             | 13.00 |
| CA 4A-7A-12A [1] | LTE B7   | 20           | 20850        | 2510   | 64QAM      | 1                | 99           | 2850                 | 2630            | 4x4 MIMO | LTE B4       | 20           | 2175                 | 2132.5          | 2x2 MIMO | LTE B12      | 10           | 5095                 | 737.5           | 2x2 MIMO | -            | -            | -                    | -               | -                                     | 12.51                             | 13.00 |
| CA 7A-46C [1]    | LTE B7   | 20           | 20850        | 2510   | 64QAM      | 1                | 99           | 2850                 | 2630            | 4x4 MIMO | LTE B46      | 20           | 50665                | 5537.5          | 2x2 MIMO | LTE B46      | 20           | 50467                | 5517.7          | 2x2 MIMO | -            | -            | -                    | -               | -                                     | 12.55                             | 13.00 |
| CA 7A-46D [1]    | LTE B7   | 20           | 20850        | 2510   | 64QAM      | 1                | 99           | 2850                 | 2630            | 4x4 MIMO | LTE B46      | 20           | 50665                | 5537.5          | 2x2 MIMO | LTE B46      | 20           | 50467                | 5517.7          | 2x2 MIMO | LTE B46      | 20           | 50863                | 5557.3          | 2x2 MIMO                              | 12.60                             | 13.00 |

**Table 87**  
**Output Powers – Ant 4A**

| Combination      | PCC Band | PCC          |              |                      |       |            |                  |              |                      |                 |          | SCC 1        |              |                      |                 | SCC 2    |              |              |                      | SCC 3           |          |              |                      | Power           |                                       |                                   |       |
|------------------|----------|--------------|--------------|----------------------|-------|------------|------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|-------|
|                  |          | PCC BW [MHz] | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | Mod.  | PCC UL# RB | PCC UL RB Offset | PCC [DL] Ch. | PCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |
| CA 5A-7A         | LTE B7   | 10           | 20800        | 2505                 | QPSK  | 1          | 49               | 2800         | 2625                 | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -                    | -               | -                                     | 14.28                             | 14.30 |
| CA 7B            | LTE B7   | 15           | 20825        | 2507.5               | 64QAM | 1          | 0                | 2825         | 2627.5               | 4x4 MIMO        | LTE B7   | 5            | 2918         | 2636.8               | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -                    | -               | -                                     | 13.98                             | 14.29 |
| CA 7C [1]        | LTE B7   | 10           | 20800        | 2505                 | QPSK  | 1          | 49               | 2800         | 2625                 | 4x4 MIMO        | LTE B7   | 20           | 2984         | 2639.4               | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -                    | -               | -                                     | 14.30                             | 14.30 |
| CA 7A-12A        | LTE B7   | 10           | 20800        | 2505                 | QPSK  | 1          | 49               | 2800         | 2625                 | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -                    | -               | -                                     | 14.29                             | 14.30 |
| CA 7A-46A [1]    | LTE B7   | 10           | 20800        | 2505                 | QPSK  | 1          | 49               | 2800         | 2625                 | 4x4 MIMO        | LTE B46  | 20           | 50665        | 5537.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -                    | -               | -                                     | 14.29                             | 14.30 |
| CA 7A-46A        | LTE B7   | 10           | 20800        | 2505                 | QPSK  | 1          | 49               | 2800         | 2625                 | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -                    | -               | -                                     | 14.27                             | 14.30 |
| CA 7A-66A        | LTE B7   | 10           | 20800        | 2505                 | QPSK  | 1          | 49               | 2800         | 2625                 | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -                    | -               | -                                     | 14.30                             | 14.30 |
| CA 4A-4A-7A [1]  | LTE B7   | 10           | 20800        | 2505                 | QPSK  | 1          | 49               | 2800         | 2625                 | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 4x4 MIMO        | LTE B4   | 10           | 2350         | 2150                 | 2x2 MIMO        | -        | -            | -                    | -               | -                                     | 14.30                             | 14.30 |
| CA 4A-7A-7A      | LTE B7   | 10           | 20800        | 2505                 | QPSK  | 1          | 49               | 2800         | 2625                 | 4x4 MIMO        | LTE B7   | 20           | 3350         | 2680                 | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | -        | -            | -                    | -               | -                                     | 14.27                             | 14.30 |
| CA 4A-7A-7A      | LTE B7   | 10           | 20800        | 2505                 | QPSK  | 1          | 49               | 2800         | 2625                 | 2x2 MIMO        | LTE B7   | 20           | 3350         | 2680                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | -        | -            | -                    | -               | -                                     | 14.29                             | 14.30 |
| CA 4A-7A-12A [1] | LTE B7   | 10           | 20800        | 2505                 | QPSK  | 1          | 49               | 2800         | 2625                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -                    | -               | -                                     | 14.30                             | 14.30 |
| CA 7A-46C [1]    | LTE B7   | 10           | 20800        | 2505                 | QPSK  | 1          | 49               | 2800         | 2625                 | 4x4 MIMO        | LTE B46  | 20           | 50665        | 5537.5               | 2x2 MIMO        | LTE B46  | 20           | 50467        | 5517.7               | 2x2 MIMO        | -        | -            | -                    | -               | -                                     | 14.28                             | 14.30 |
| CA 7A-46D [1]    | LTE B7   | 10           | 20800        | 2505                 | QPSK  | 1          | 49               | 2800         | 2625                 | 4x4 MIMO        | LTE B46  | 20           | 50665        | 5537.5               | 2x2 MIMO        | LTE B46  | 20           | 50467        | 5517.7               | 2x2 MIMO        | LTE B46  | 20           | 50863                | 5557.3          | 2x2 MIMO                              | 14.26                             | 14.30 |

**Table 88**  
**Output Powers – Ant 4B**

| Combination       | PCC Band | PCC          |              |                      |       |            |                  |              |                      | SCC 1           |          |              |              | SCC 2                |                 |          |              | SCC 3        |                      |                 |          | Power        |              |                      |                 |                               |                                   |
|-------------------|----------|--------------|--------------|----------------------|-------|------------|------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|-------------------------------|-----------------------------------|
|                   |          | PCC BW [MHz] | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | Mod.  | PCC UL# RB | PCC UL RB Offset | PCC [DL] Ch. | PCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA [dBm] | LTE Single Carrier Tx Power [dBm] |
| CA 5A-7A          | LTE B7   | 20           | 20850        | 2510                 | 16QAM | 1          | 50               | 2850         | 2630                 | 4x4 MIMO        | LTE B5   | 10           | 2525         | 881.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | 12.00                         | 12.30                             |
| CA 7B             | LTE B7   | 15           | 21100        | 2535                 | QPSK  | 1          | 0                | 3100         | 2655                 | 4x4 MIMO        | LTE B7   | 5            | 3007         | 2645.7               | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | 12.26                         | 12.30                             |
| CA 7C [1]         | LTE B7   | 20           | 20850        | 2510                 | 16QAM | 1          | 50               | 2850         | 2630                 | 4x4 MIMO        | LTE B7   | 20           | 3048         | 2649.8               | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | 12.01                         | 12.30                             |
| CA 7A-12A         | LTE B7   | 20           | 20850        | 2510                 | 16QAM | 1          | 50               | 2850         | 2630                 | 4x4 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | 11.95                         | 12.30                             |
| CA 7A-46A [1]     | LTE B7   | 20           | 20850        | 2510                 | 16QAM | 1          | 50               | 2850         | 2630                 | 4x4 MIMO        | LTE B46  | 20           | 50665        | 5537.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | 12.03                         | 12.30                             |
| CA 7A-46A         | LTE B7   | 20           | 20850        | 2510                 | 16QAM | 1          | 50               | 2850         | 2630                 | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | 11.97                         | 12.30                             |
| CA 7A-66A         | LTE B7   | 20           | 20850        | 2510                 | 16QAM | 1          | 50               | 2850         | 2630                 | 4x4 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | 11.97                         | 12.30                             |
| CA 7A-66A         | LTE B7   | 20           | 20850        | 2510                 | 16QAM | 1          | 50               | 2850         | 2630                 | 2x2 MIMO        | LTE B66  | 20           | 66786        | 2145                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | 11.97                         | 12.30                             |
| CA 14A-4A-7A [1]  | LTE B7   | 20           | 20850        | 2510                 | 16QAM | 1          | 50               | 2850         | 2630                 | 2x2 MIMO        | LTE B4   | 20           | 2125         | 2132.5               | 4x4 MIMO        | LTE B4   | 10           | 2350         | 2150                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 11.98                         | 12.30                             |
| CA 4A-7A-7A       | LTE B7   | 20           | 20850        | 2510                 | 16QAM | 1          | 50               | 2850         | 2630                 | 4x4 MIMO        | LTE B7   | 20           | 3350         | 2680                 | 2x2 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | 11.91                         | 12.30                             |
| CA 4A-7A-7A       | LTE B7   | 20           | 20850        | 2510                 | 16QAM | 1          | 50               | 2850         | 2630                 | 2x2 MIMO        | LTE B7   | 20           | 3350         | 2680                 | 4x4 MIMO        | LTE B4   | 20           | 2175         | 2132.5               | 2x2 MIMO        | -        | -            | -            | -                    | -               | 11.91                         | 12.30                             |
| CA 4A-12A-12A [1] | LTE B7   | 20           | 20850        | 2510                 | 16QAM | 1          | 50               | 2850         | 2630                 | 4x4 MIMO        | LTE B4   | 20           | 2125         | 2132.5               | 2x2 MIMO        | LTE B12  | 10           | 5095         | 737.5                | 2x2 MIMO        | -        | -            | -            | -                    | -               | 11.91                         | 12.30                             |
| CA 7A-46C [1]     | LTE B7   | 20           | 20850        | 2510                 | 16QAM | 1          | 50               | 2850         | 2630                 | 4x4 MIMO        | LTE B46  | 20           | 50665        | 5537.5               | 2x2 MIMO        | LTE B46  | 20           | 50667        | 5537.7               | 2x2 MIMO        | -        | -            | -            | -                    | -               | 11.87                         | 12.30                             |
| CA 7A-46D [1]     | LTE B7   | 20           | 20850        | 2510                 | 16QAM | 1          | 50               | 2850         | 2630                 | 4x4 MIMO        | LTE B46  | 20           | 50665        | 5537.5               | 2x2 MIMO        | LTE B46  | 20           | 50667        | 5537.7               | 2x2 MIMO        | LTE B46  | 20           | 50863        | 5557.3               | 2x2 MIMO        | 11.83                         | 12.30                             |

## 1.4.14 LTE Band 41 as PCC

**Table 89**  
**Output Powers – Ant 2A**

| Combination      | PCC Band | PCC          |              |                      |       |            |                  |              |                      |                 |          | SCC 1        |              |                      |                 | SCC 2    |              |              |                      | SCC 3           |          |              |              | Power                |                 |                                       |                                   |
|------------------|----------|--------------|--------------|----------------------|-------|------------|------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|
|                  |          | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod.  | PCC UL# RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA {41A}-41A (1) | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1          | 99               | 40620        | 2593                 | 4x4 MIMO        | LTE B41  | 20           | 39750        | 2506                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | 16.64                                 | 17.50                             |
| CA 41A-41A (1)   | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1          | 99               | 40620        | 2593                 | 2x2 MIMO        | LTE B41  | 20           | 39750        | 2506                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | 17.50                                 | 17.50                             |
| CA {41A}-41C     | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1          | 99               | 40620        | 2593                 | 4x4 MIMO        | LTE B41  | 20           | 41292        | 2660.2               | 2x2 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 16.67                                 | 17.50                             |
| CA 41A-41C       | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1          | 99               | 40620        | 2593                 | 2x2 MIMO        | LTE B41  | 20           | 41292        | 2660.2               | 4x4 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | 17.50                                 | 17.50                             |
| CA 41C-41A       | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1          | 99               | 40620        | 2593                 | 2x2 MIMO        | LTE B41  | 20           | 40818        | 2612.8               | 2x2 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | 17.49                                 | 17.50                             |
| CA 41C-41A       | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1          | 99               | 40620        | 2593                 | 4x4 MIMO        | LTE B41  | 20           | 40818        | 2612.8               | 4x4 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 16.75                                 | 17.50                             |
| CA {41A}-41D     | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1          | 99               | 40620        | 2593                 | 4x4 MIMO        | LTE B41  | 20           | 41094        | 2640.4               | 2x2 MIMO        | LTE B41  | 20           | 41292        | 2660.2               | 2x2 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 2x2 MIMO        | 16.65                                 | 17.50                             |
| CA 41D-41A       | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1          | 99               | 40620        | 2593                 | 2x2 MIMO        | LTE B41  | 20           | 40422        | 2573.2               | 2x2 MIMO        | LTE B41  | 20           | 40818        | 2612.8               | 2x2 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 4x4 MIMO        | 17.48                                 | 17.50                             |

**Table 90**  
**Output Powers – Ant 2B**

| Combination      | PCC      |              |              |                      |      |           |                  |              |                      |                 | SCC 1    |              |              |                      | SCC 2           |          |              |              | SCC 3                |                 |          |              | Power        |                      |                 |                                       |                                   |
|------------------|----------|--------------|--------------|----------------------|------|-----------|------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|
|                  | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod. | PCC UL RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA {41A}-41A (1) | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 99               | 39750        | 2506                 | 4x4 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | 15.58                                 | 15.58                             |
| CA 41A-41A (1)   | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 99               | 39750        | 2506                 | 2x2 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | 15.50                                 | 15.58                             |
| CA {41A}-41C     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 99               | 39750        | 2506                 | 4x4 MIMO        | LTE B41  | 20           | 41292        | 2660.2               | 2x2 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 15.58                                 | 15.58                             |
| CA 41A-41C       | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 99               | 39750        | 2506                 | 2x2 MIMO        | LTE B41  | 20           | 41292        | 2660.2               | 4x4 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | 15.58                                 | 15.58                             |
| CA 41C-41A       | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 99               | 39750        | 2506                 | 2x2 MIMO        | LTE B41  | 20           | 39948        | 2525.8               | 2x2 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | 15.57                                 | 15.58                             |
| CA 41C-41A       | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 99               | 39750        | 2506                 | 4x4 MIMO        | LTE B41  | 20           | 39948        | 2525.8               | 4x4 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 15.45                                 | 15.58                             |
| CA {41A}-41D     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 99               | 39750        | 2506                 | 4x4 MIMO        | LTE B41  | 20           | 41094        | 2640.4               | 2x2 MIMO        | LTE B41  | 20           | 41292        | 2660.2               | 2x2 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 2x2 MIMO        | 15.57                                 | 15.58                             |
| CA 41D-41A       | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1         | 99               | 39750        | 2506                 | 2x2 MIMO        | LTE B41  | 20           | 39948        | 2525.8               | 2x2 MIMO        | LTE B41  | 20           | 40146        | 2545.6               | 2x2 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 4x4 MIMO        | 15.54                                 | 15.58                             |

**Table 91**  
**Output Powers – Ant 4A**

| Combination      | PCC Band | PCC          |              |                      |       |            |                  |              |                      |                 |          | SCC 1        |              |                      |                 | SCC 2    |              |              |                      | SCC 3           |          |              |              | Power                |                 |                                       |                                   |
|------------------|----------|--------------|--------------|----------------------|-------|------------|------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|
|                  |          | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod.  | PCC UL# RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA {41A}-41A (1) | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1          | 99               | 40620        | 2593                 | 4x4 MIMO        | LTE B41  | 20           | 39750        | 2506                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | 17.26                                 | 17.30                             |
| CA 41A-41A (1)   | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1          | 99               | 40620        | 2593                 | 2x2 MIMO        | LTE B41  | 20           | 39750        | 2506                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | 17.26                                 | 17.30                             |
| CA {41A}-41C     | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1          | 99               | 40620        | 2593                 | 4x4 MIMO        | LTE B41  | 20           | 41292        | 2660.2               | 2x2 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 17.28                                 | 17.30                             |
| CA 41A-41C       | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1          | 99               | 40620        | 2593                 | 2x2 MIMO        | LTE B41  | 20           | 41292        | 2660.2               | 4x4 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | 17.30                                 | 17.30                             |
| CA 41C-41A       | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1          | 99               | 40620        | 2593                 | 2x2 MIMO        | LTE B41  | 20           | 40818        | 2612.8               | 2x2 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | 17.29                                 | 17.30                             |
| CA 41C-41A       | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1          | 99               | 40620        | 2593                 | 4x4 MIMO        | LTE B41  | 20           | 40818        | 2612.8               | 4x4 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 17.26                                 | 17.30                             |
| CA {41A}-41D     | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1          | 99               | 40620        | 2593                 | 4x4 MIMO        | LTE B41  | 20           | 41094        | 2640.4               | 2x2 MIMO        | LTE B41  | 20           | 41292        | 2660.2               | 2x2 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 2x2 MIMO        | 17.29                                 | 17.30                             |
| CA 41D-41A       | LTE B41  | 20           | 40620        | 2593                 | 16QAM | 1          | 99               | 40620        | 2593                 | 2x2 MIMO        | LTE B41  | 20           | 40422        | 2573.2               | 2x2 MIMO        | LTE B41  | 20           | 40818        | 2612.8               | 2x2 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 4x4 MIMO        | 17.26                                 | 17.30                             |

**Table 92**  
**Output Powers – Ant 4B**

| Combination      | PCC Band | PCC          |              |                      |      |            |                  |              |                      |                 |          | SCC 1        |              |                      |                 | SCC 2    |              |              |                      | SCC 3           |          |              |              | Power                |                 |                                       |                                   |
|------------------|----------|--------------|--------------|----------------------|------|------------|------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|
|                  |          | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | Mod. | PCC UL# RB | PCC UL RB Offset | PCC (DL) Ch. | PCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | SCC Band | SCC BW [MHz] | SCC (DL) Ch. | SCC (DL) Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA {41A}-41A (1) | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1          | 0                | 39750        | 2506                 | 4x4 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | 16.19                                 | 16.20                             |
| CA 41A-41A (1)   | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1          | 0                | 39750        | 2506                 | 2x2 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | 16.20                                 | 16.20                             |
| CA {41A}-41C     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1          | 0                | 39750        | 2506                 | 4x4 MIMO        | LTE B41  | 20           | 41292        | 2660.2               | 2x2 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 16.14                                 | 16.20                             |
| CA 41A-41C       | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1          | 0                | 39750        | 2506                 | 2x2 MIMO        | LTE B41  | 20           | 41292        | 2660.2               | 4x4 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | 16.13                                 | 16.20                             |
| CA 41C-41A       | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1          | 0                | 39750        | 2506                 | 2x2 MIMO        | LTE B41  | 20           | 39948        | 2525.8               | 2x2 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 4x4 MIMO        | -        | -            | -            | -                    | -               | 16.19                                 | 16.20                             |
| CA 41C-41A       | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1          | 0                | 39750        | 2506                 | 4x4 MIMO        | LTE B41  | 20           | 39948        | 2525.8               | 4x4 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 2x2 MIMO        | -        | -            | -            | -                    | -               | 16.16                                 | 16.20                             |
| CA {41A}-41D     | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1          | 0                | 39750        | 2506                 | 4x4 MIMO        | LTE B41  | 20           | 41094        | 2640.4               | 2x2 MIMO        | LTE B41  | 20           | 41292        | 2660.2               | 2x2 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 2x2 MIMO        | 16.16                                 | 16.20                             |
| CA 41D-41A       | LTE B41  | 20           | 39750        | 2506                 | QPSK | 1          | 0                | 39750        | 2506                 | 2x2 MIMO        | LTE B41  | 20           | 39948        | 2525.8               | 2x2 MIMO        | LTE B41  | 20           | 40146        | 2545.6               | 2x2 MIMO        | LTE B41  | 20           | 41490        | 2680                 | 4x4 MIMO        | 16.16                                 | 16.20                             |

FCC ID: BCGA2014



SAR EVALUATION REPORT

Reviewed by:  
Quality Manager

Test Dates:  
09/06/18 – 09/21/18

DUT Type:  
Tablet Device

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## 1.4.15 LTE Band 41 PC2 as PCC

**Table 93**  
**Output Powers – Ant 2A**

| Combination     | PCC         |              |              |                      |       |           |                  |              |                      |                 | SCC 1       |              |              |                      | SCC 2           |             |              |              | SCC 3                |                 |             |              | Power        |                      |                 |                                       |                                   |       |
|-----------------|-------------|--------------|--------------|----------------------|-------|-----------|------------------|--------------|----------------------|-----------------|-------------|--------------|--------------|----------------------|-----------------|-------------|--------------|--------------|----------------------|-----------------|-------------|--------------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|-------|
|                 | PCC Band    | PCC BW [MHz] | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | Mod.  | PCC UL RB | PCC UL RB Offset | PCC [DL] Ch. | PCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band    | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band    | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band    | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |
| CA [41A]-41A(1) | LTE B41 PC2 | 20           | 39750        | 2506                 | 16QAM | 1         | 99               | 39750        | 2506                 | 4x4 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 2x2 MIMO        | -           | -            | -            | -                    | -               | -           | -            | -            | -                    | -               | -                                     | 17.50                             | 17.50 |
| CA 41A-41A(1)   | LTE B41 PC2 | 20           | 39750        | 2506                 | 16QAM | 1         | 99               | 39750        | 2506                 | 2x2 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 4x4 MIMO        | -           | -            | -            | -                    | -               | -           | -            | -            | -                    | -               | -                                     | 17.50                             | 17.50 |
| CA [41A]-41C    | LTE B41 PC2 | 20           | 39750        | 2506                 | 16QAM | 1         | 99               | 39750        | 2506                 | 4x4 MIMO        | LTE B41 PC2 | 20           | 41292        | 2660.2               | 2x2 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 2x2 MIMO        | -           | -            | -            | -                    | -               | -                                     | 17.50                             | 17.50 |
| CA 41A-41C(1)   | LTE B41 PC2 | 20           | 39750        | 2506                 | 16QAM | 1         | 99               | 39750        | 2506                 | 2x2 MIMO        | LTE B41 PC2 | 20           | 41292        | 2660.2               | 4x4 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 4x4 MIMO        | -           | -            | -            | -                    | -               | -                                     | 17.50                             | 17.50 |
| CA 41C-41A(1)   | LTE B41 PC2 | 20           | 39750        | 2506                 | 16QAM | 1         | 99               | 39750        | 2506                 | 2x2 MIMO        | LTE B41 PC2 | 20           | 39948        | 2525.8               | 2x2 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 4x4 MIMO        | -           | -            | -            | -                    | -               | -                                     | 17.48                             | 17.50 |
| CA [41C]-41A    | LTE B41 PC2 | 20           | 39750        | 2506                 | 16QAM | 1         | 99               | 39750        | 2506                 | 4x4 MIMO        | LTE B41 PC2 | 20           | 39948        | 2525.8               | 4x4 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 2x2 MIMO        | -           | -            | -            | -                    | -               | -                                     | 17.50                             | 17.50 |
| CA [41A]-41D    | LTE B41 PC2 | 20           | 39750        | 2506                 | 16QAM | 1         | 99               | 39750        | 2506                 | 4x4 MIMO        | LTE B41 PC2 | 20           | 41094        | 2640.4               | 2x2 MIMO        | LTE B41 PC2 | 20           | 41292        | 2660.2               | 2x2 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 2x2 MIMO        | -                                     | 17.48                             | 17.50 |
| CA 41D-41A(1)   | LTE B41 PC2 | 20           | 39750        | 2506                 | 16QAM | 1         | 99               | 39750        | 2506                 | 2x2 MIMO        | LTE B41 PC2 | 20           | 39948        | 2525.8               | 2x2 MIMO        | LTE B41 PC2 | 20           | 40146        | 2545.6               | 2x2 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 4x4 MIMO        | -                                     | 17.50                             | 17.50 |

**Table 94**  
**Output Powers – Ant 2B**

| Combination     | PCC         |              |              |                      |      |           |                  |              |                      |                 | SCC 1       |              |              |                      | SCC 2           |             |              |              | SCC 3                |                 |             |              | Power        |                      |                 |                                       |                                   |       |
|-----------------|-------------|--------------|--------------|----------------------|------|-----------|------------------|--------------|----------------------|-----------------|-------------|--------------|--------------|----------------------|-----------------|-------------|--------------|--------------|----------------------|-----------------|-------------|--------------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|-------|
|                 | PCC Band    | PCC BW [MHz] | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | Mod. | PCC UL RB | PCC UL RB Offset | PCC [DL] Ch. | PCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band    | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band    | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band    | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |
| CA [41A]-41A(1) | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 99               | 39750        | 2506                 | 4x4 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 2x2 MIMO        | -           | -            | -            | -                    | -               | -           | -            | -            | -                    | -               | -                                     | 15.57                             | 15.60 |
| CA 41A-41A(1)   | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 99               | 39750        | 2506                 | 2x2 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 4x4 MIMO        | -           | -            | -            | -                    | -               | -           | -            | -            | -                    | -               | -                                     | 15.59                             | 15.60 |
| CA [41A]-41C    | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 99               | 39750        | 2506                 | 4x4 MIMO        | LTE B41 PC2 | 20           | 41292        | 2660.2               | 2x2 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 2x2 MIMO        | -           | -            | -            | -                    | -               | -                                     | 15.54                             | 15.60 |
| CA 41A-41C(1)   | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 99               | 39750        | 2506                 | 2x2 MIMO        | LTE B41 PC2 | 20           | 41292        | 2660.2               | 4x4 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 4x4 MIMO        | -           | -            | -            | -                    | -               | -                                     | 15.60                             | 15.60 |
| CA 41C-41A(1)   | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 99               | 39750        | 2506                 | 2x2 MIMO        | LTE B41 PC2 | 20           | 39948        | 2525.8               | 2x2 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 4x4 MIMO        | -           | -            | -            | -                    | -               | -                                     | 15.55                             | 15.60 |
| CA [41C]-41A    | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 99               | 39750        | 2506                 | 4x4 MIMO        | LTE B41 PC2 | 20           | 39948        | 2525.8               | 4x4 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 2x2 MIMO        | -           | -            | -            | -                    | -               | -                                     | 15.56                             | 15.60 |
| CA [41A]-41D    | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 99               | 39750        | 2506                 | 4x4 MIMO        | LTE B41 PC2 | 20           | 41094        | 2640.4               | 2x2 MIMO        | LTE B41 PC2 | 20           | 41292        | 2660.2               | 2x2 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 2x2 MIMO        | -                                     | 15.54                             | 15.60 |
| CA 41D-41A(1)   | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 99               | 39750        | 2506                 | 2x2 MIMO        | LTE B41 PC2 | 20           | 39948        | 2525.8               | 2x2 MIMO        | LTE B41 PC2 | 20           | 40146        | 2545.6               | 2x2 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 4x4 MIMO        | -                                     | 15.60                             | 15.60 |

**Table 95**  
**Output Powers – Ant 4A**

| Combination     | PCC         |              |              |                      |      |           |                  |              |                      |                 | SCC 1       |              |              |                      | SCC 2           |             |              |              | SCC 3                |                 |             |              | Power        |                      |                 |                                       |                                   |       |       |
|-----------------|-------------|--------------|--------------|----------------------|------|-----------|------------------|--------------|----------------------|-----------------|-------------|--------------|--------------|----------------------|-----------------|-------------|--------------|--------------|----------------------|-----------------|-------------|--------------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|-------|-------|
|                 | PCC Band    | PCC BW [MHz] | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | Mod. | PCC UL RB | PCC UL RB Offset | PCC [DL] Ch. | PCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band    | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band    | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band    | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |       |
| CA [41A]-41A(1) | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750        | 2506                 | 4x4 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 2x2 MIMO        | -           | -            | -            | -                    | -               | -           | -            | -            | -                    | -               | -                                     | 17.30                             | 17.30 |       |
| CA [41A]-41A(1) | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750        | 2506                 | 2x2 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 4x4 MIMO        | -           | -            | -            | -                    | -               | -           | -            | -            | -                    | -               | -                                     | 17.30                             | 17.30 |       |
| CA [41A]-41C    | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750        | 2506                 | 4x4 MIMO        | LTE B41 PC2 | 20           | 41292        | 2660.2               | 2x2 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 2x2 MIMO        | -           | -            | -            | -                    | -               | -                                     | 17.30                             | 17.30 |       |
| CA [41A]-41C(1) | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750        | 2506                 | 2x2 MIMO        | LTE B41 PC2 | 20           | 41292        | 2660.2               | 4x4 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 4x4 MIMO        | -           | -            | -            | -                    | -               | -                                     | 17.27                             | 17.30 |       |
| CA 41C-41A(1)   | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750        | 2506                 | 2x2 MIMO        | LTE B41 PC2 | 20           | 39948        | 2525.8               | 2x2 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 4x4 MIMO        | -           | -            | -            | -                    | -               | -                                     | 17.30                             | 17.30 |       |
| CA [41C]-41A    | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750        | 2506                 | 4x4 MIMO        | LTE B41 PC2 | 20           | 39948        | 2525.8               | 4x4 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 2x2 MIMO        | -           | -            | -            | -                    | -               | -                                     | 17.28                             | 17.30 |       |
| CA [41A]-41D    | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750        | 2506                 | 4x4 MIMO        | LTE B41 PC2 | 20           | 41094        | 2640.4               | 2x2 MIMO        | LTE B41 PC2 | 20           | 41292        | 2660.2               | 2x2 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 2x2 MIMO        | -                                     | -                                 | 17.28 | 17.30 |
| CA 41D-41A(1)   | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750        | 2506                 | 2x2 MIMO        | LTE B41 PC2 | 20           | 39948        | 2525.8               | 2x2 MIMO        | LTE B41 PC2 | 20           | 40146        | 2545.6               | 2x2 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 4x4 MIMO        | -                                     | -                                 | 17.28 | 17.30 |

**Table 96**  
**Output Powers – Ant 4B**

| Combination     | PCC         |              |              |                      |      |           |                  |              |                      |                 | SCC 1       |              |              |                      | SCC 2           |             |              |              | SCC 3                |                 |             |              | Power        |                      |                 |                                       |                                   |       |
|-----------------|-------------|--------------|--------------|----------------------|------|-----------|------------------|--------------|----------------------|-----------------|-------------|--------------|--------------|----------------------|-----------------|-------------|--------------|--------------|----------------------|-----------------|-------------|--------------|--------------|----------------------|-----------------|---------------------------------------|-----------------------------------|-------|
|                 | PCC Band    | PCC BW [MHz] | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | Mod. | PCC UL RB | PCC UL RB Offset | PCC [DL] Ch. | PCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band    | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band    | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | SCC Band    | SCC BW [MHz] | SCC [DL] Ch. | SCC [DL] Freq. [MHz] | DL Ant. Config. | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |       |
| CA [41A]-41A(1) | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750        | 2506                 | 4x4 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 2x2 MIMO        | -           | -            | -            | -                    | -               | -           | -            | -            | -                    | -               | -                                     | 16.20                             | 16.20 |
| CA 41A-41A(1)   | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750        | 2506                 | 2x2 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 4x4 MIMO        | -           | -            | -            | -                    | -               | -           | -            | -            | -                    | -               | -                                     | 16.20                             | 16.20 |
| CA [41A]-41C    | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750        | 2506                 | 4x4 MIMO        | LTE B41 PC2 | 20           | 41292        | 2660.2               | 2x2 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 2x2 MIMO        | -           | -            | -            | -                    | -               | -                                     | 16.20                             | 16.20 |
| CA 41A-41C(1)   | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750        | 2506                 | 2x2 MIMO        | LTE B41 PC2 | 20           | 41292        | 2660.2               | 4x4 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 4x4 MIMO        | -           | -            | -            | -                    | -               | -                                     | 16.20                             | 16.20 |
| CA 41C-41A(1)   | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750        | 2506                 | 2x2 MIMO        | LTE B41 PC2 | 20           | 39948        | 2525.8               | 2x2 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 4x4 MIMO        | -           | -            | -            | -                    | -               | -                                     | 16.17                             | 16.20 |
| CA [41C]-41A    | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750        | 2506                 | 4x4 MIMO        | LTE B41 PC2 | 20           | 39948        | 2525.8               | 4x4 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 2x2 MIMO        | -           | -            | -            | -                    | -               | -                                     | 16.19                             | 16.20 |
| CA [41A]-41D    | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750        | 2506                 | 4x4 MIMO        | LTE B41 PC2 | 20           | 41094        | 2640.4               | 2x2 MIMO        | LTE B41 PC2 | 20           | 41292        | 2660.2               | 2x2 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 2x2 MIMO        | -                                     | 16.20                             | 16.20 |
| CA 41D-41A(1)   | LTE B41 PC2 | 20           | 39750        | 2506                 | QPSK | 1         | 0                | 39750        | 2506                 | 2x2 MIMO        | LTE B41 PC2 | 20           | 39948        | 2525.8               | 2x2 MIMO        | LTE B41 PC2 | 20           | 40146        | 2545.6               | 2x2 MIMO        | LTE B41 PC2 | 20           | 41490        | 2680                 | 4x4 MIMO        | -                                     | 16.20                             | 16.20 |

FCC ID: BCGA2014



SAR EVALUATION REPORT

Reviewed by:  
Quality Manager

Test Dates:  
09/06/18 – 09/21/18

DUT Type:  
Tablet Device

APPENDIX H:  
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## 1.5 Downlink Carrier Aggregation with CA\_41C and & CA\_7C Uplink Carrier Aggregation enabled

This device supports uplink carrier aggregation (ULCA) for CA\_41C with additional Carrier Aggregation configurations active in the downlink. Power measurements were performed with ULCA CA\_41C active and additional CA configurations active in the downlink for the configuration required for ULCA CA\_41C per Fall 2017 TCB Workshop Notes.

Per FCC Guidance, additional SAR measurements for these configurations were not required since their maximum output power was not more than 0.25 dB higher than the maximum output power for ULCA with only CA\_41C active.

### 1.5.1 DL Carrier Aggregation RF Conducted Powers

Table 97  
Output Powers – Ant 2A

| Combination | PCC      |                     |                     |                             |            |           |                  | SCC1     |                     |                     |                             |            |           |                  | SCC2     |                     |                |                        |          |                     |                | SCC3                   |          |                     |                |                        |                                                               |                      | SCC4 |  |  |  |  |  |  | Power |  |
|-------------|----------|---------------------|---------------------|-----------------------------|------------|-----------|------------------|----------|---------------------|---------------------|-----------------------------|------------|-----------|------------------|----------|---------------------|----------------|------------------------|----------|---------------------|----------------|------------------------|----------|---------------------|----------------|------------------------|---------------------------------------------------------------|----------------------|------|--|--|--|--|--|--|-------|--|
|             | PCC Band | PCC Bandwidth [MHz] | PCC (UL/DL) Channel | PCC (UL/DL) Frequency [MHz] | Modulation | PCC UL RB | PCC UL RB Offset | SCC Band | SCC Bandwidth [MHz] | SCC (UL/DL) Channel | SCC (UL/DL) Frequency [MHz] | Modulation | SCC UL RB | SCC UL RB Offset | SCC Band | SCC Bandwidth [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | SCC Band | SCC Bandwidth [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | SCC Band | SCC Bandwidth [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | ULCA Tx. Power with add'l CA configuration active in DL (dBm) | ULCA Tx. Power (dBm) |      |  |  |  |  |  |  |       |  |
| CA_41C-41A  | LTE B41  | 20                  | 40185               | 2549.5                      | QPSK       | 1         | 0                | LTE B41  | 20                  | 39987               | 2529.7                      | QPSK       | 1         | 99               | LTE B41  | 20                  | 41490          | 2680                   | -        | -                   | -              | -                      | -        | -                   | -              | -                      | 17.12                                                         | 17.12                |      |  |  |  |  |  |  |       |  |
| CA_41D      | LTE B41  | 20                  | 40185               | 2549.5                      | QPSK       | 1         | 0                | LTE B41  | 20                  | 39987               | 2529.7                      | QPSK       | 1         | 99               | LTE B41  | 20                  | 40383          | 2569.3                 | -        | -                   | -              | -                      | -        | -                   | -              | -                      | 17.11                                                         | 17.12                |      |  |  |  |  |  |  |       |  |
| CA_41E      | LTE B41  | 20                  | 40185               | 2549.5                      | QPSK       | 1         | 0                | LTE B41  | 20                  | 39987               | 2529.7                      | QPSK       | 1         | 99               | LTE B41  | 20                  | 40383          | 2569.3                 | LTE B41  | 20                  | 40383          | 2569.3                 | -        | -                   | -              | -                      | 17.13                                                         | 17.13                |      |  |  |  |  |  |  |       |  |
| CA_41C-41C  | LTE B41  | 20                  | 40185               | 2549.5                      | QPSK       | 1         | 0                | LTE B41  | 20                  | 39987               | 2529.7                      | QPSK       | 1         | 99               | LTE B41  | 20                  | 41292          | 2660.2                 | LTE B41  | 20                  | 41490          | 2680                   | -        | -                   | -              | -                      | 17.12                                                         | 17.12                |      |  |  |  |  |  |  |       |  |
| CA_41D-41A  | LTE B41  | 20                  | 40185               | 2549.5                      | QPSK       | 1         | 0                | LTE B41  | 20                  | 39987               | 2529.7                      | QPSK       | 1         | 99               | LTE B41  | 20                  | 40383          | 2569.3                 | LTE B41  | 20                  | 41490          | 2680                   | -        | -                   | -              | -                      | 17.10                                                         | 17.12                |      |  |  |  |  |  |  |       |  |
| CA_41C-41D  | LTE B41  | 20                  | 40185               | 2549.5                      | QPSK       | 1         | 0                | LTE B41  | 20                  | 39987               | 2529.7                      | QPSK       | 1         | 99               | LTE B41  | 20                  | 41292          | 2660.2                 | LTE B41  | 20                  | 41490          | 2680                   | -        | -                   | -              | -                      | 17.14                                                         | 17.12                |      |  |  |  |  |  |  |       |  |
| CA_41D-41C  | LTE B41  | 20                  | 40185               | 2549.5                      | QPSK       | 1         | 0                | LTE B41  | 20                  | 39987               | 2529.7                      | QPSK       | 1         | 99               | LTE B41  | 20                  | 40383          | 2569.3                 | LTE B41  | 20                  | 41292          | 2660.2                 | LTE B41  | 20                  | 41490          | 2680                   | 17.15                                                         | 17.12                |      |  |  |  |  |  |  |       |  |

Table 98  
Output Powers – Ant 2B

| Combination | PCC      |                     |                     |                             |            |           |                  |          |                     |                     | SCC1                        |            |           |                  | SCC2     |                     |                |                        | SCC3     |                     |                |                        | SCC4                                                          |                      |  |  | Power |  |
|-------------|----------|---------------------|---------------------|-----------------------------|------------|-----------|------------------|----------|---------------------|---------------------|-----------------------------|------------|-----------|------------------|----------|---------------------|----------------|------------------------|----------|---------------------|----------------|------------------------|---------------------------------------------------------------|----------------------|--|--|-------|--|
|             | PCC Band | PCC Bandwidth [MHz] | PCC (UL/DL) Channel | PCC (UL/DL) Frequency [MHz] | Modulation | PCC UL RB | PCC UL RB Offset | SCC Band | SCC Bandwidth [MHz] | SCC (UL/DL) Channel | SCC (UL/DL) Frequency [MHz] | Modulation | SCC UL RB | SCC UL RB Offset | SCC Band | SCC Bandwidth [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | SCC Band | SCC Bandwidth [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | ULCA Tx. Power with add'l CA configuration active in DL (dBm) | ULCA Tx. Power (dBm) |  |  |       |  |
| CA_41C-41A  | LTE B41  | 20                  | 39750               | 2506                        | QPSK       | 1         | 99               | LTE B41  | 20                  | 39948               | 2525.8                      | QPSK       | 1         | 0                | LTE B41  | 20                  | 41490          | 2680                   | -        | -                   | -              | -                      | 15.36                                                         | 15.39                |  |  |       |  |
| CA_41D      | LTE B41  | 20                  | 39750               | 2506                        | QPSK       | 1         | 99               | LTE B41  | 20                  | 39948               | 2525.8                      | QPSK       | 1         | 0                | LTE B41  | 20                  | 40146          | 2545.6                 | -        | -                   | -              | -                      | 15.39                                                         | 15.39                |  |  |       |  |
| CA_41E      | LTE B41  | 20                  | 39750               | 2506                        | QPSK       | 1         | 99               | LTE B41  | 20                  | 39948               | 2525.8                      | QPSK       | 1         | 0                | LTE B41  | 20                  | 40146          | 2545.6                 | LTE B41  | 20                  | 40344          | 2565.4                 | 15.38                                                         | 15.39                |  |  |       |  |
| CA_41C-41C  | LTE B41  | 20                  | 39750               | 2506                        | QPSK       | 1         | 99               | LTE B41  | 20                  | 39948               | 2525.8                      | QPSK       | 1         | 0                | LTE B41  | 20                  | 41292          | 2660.2                 | LTE B41  | 20                  | 41490          | 2680                   | 15.40                                                         | 15.39                |  |  |       |  |
| CA_41D-41A  | LTE B41  | 20                  | 39750               | 2506                        | QPSK       | 1         | 99               | LTE B41  | 20                  | 39948               | 2525.8                      | QPSK       | 1         | 0                | LTE B41  | 20                  | 40146          | 2545.6                 | LTE B41  | 20                  | 41490          | 2680                   | 15.38                                                         | 15.39                |  |  |       |  |
| CA_41C-41D  | LTE B41  | 20                  | 39750               | 2506                        | QPSK       | 1         | 99               | LTE B41  | 20                  | 39948               | 2525.8                      | QPSK       | 1         | 0                | LTE B41  | 20                  | 41292          | 2660.2                 | LTE B41  | 20                  | 41490          | 2680                   | 15.41                                                         | 15.39                |  |  |       |  |
| CA_41D-41C  | LTE B41  | 20                  | 39750               | 2506                        | QPSK       | 1         | 99               | LTE B41  | 20                  | 39948               | 2525.8                      | QPSK       | 1         | 0                | LTE B41  | 20                  | 40146          | 2545.6                 | LTE B41  | 20                  | 41292          | 2660.2                 | 15.37                                                         | 15.39                |  |  |       |  |

Table 99  
Output Powers – Ant 4A

| Combination | PCC Band | PCC                 |                     |                             |                | Modulation | PCC UL RB | PCC UL RB Offset | SCC1                |                     |                             |                | Modulation | SCC UL RB | SCC2                   |          |                     |                | SCC3                   |          |                     |                | SCC4                   |          |                     |                | Power                  |                                                               |
|-------------|----------|---------------------|---------------------|-----------------------------|----------------|------------|-----------|------------------|---------------------|---------------------|-----------------------------|----------------|------------|-----------|------------------------|----------|---------------------|----------------|------------------------|----------|---------------------|----------------|------------------------|----------|---------------------|----------------|------------------------|---------------------------------------------------------------|
|             |          | PCC Bandwidth [MHz] | PCC (UL/DL) Channel | PCC (UL/DL) Frequency [MHz] | PCC DL Channel |            |           |                  | SCC Bandwidth [MHz] | SCC (UL/DL) Channel | SCC (UL/DL) Frequency [MHz] | SCC DL Channel |            |           | SCC DL Frequency [MHz] | SCC Band | SCC Bandwidth [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | SCC Band | SCC Bandwidth [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | SCC Band | SCC Bandwidth [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | ULCA Tx. Power with add'l CA configuration active in DL (dBm) |
| CA_41C-41A  | LTE B41  | 20                  | 39750               | 2506                        | QPSK           | 1          | 99        | LTE B41          | 20                  | 39948               | 2525.8                      | QPSK           | 1          | 0         | LTE B41                | 20       | 41490               | 2680           | -                      | -        | -                   | -              | 17.10                  | 17.12    |                     |                |                        |                                                               |
| CA_41D      | LTE B41  | 20                  | 39750               | 2506                        | QPSK           | 1          | 99        | LTE B41          | 20                  | 39948               | 2525.8                      | QPSK           | 1          | 0         | LTE B41                | 20       | 40146               | 2545.6         | -                      | -        | -                   | -              | 17.12                  | 17.12    |                     |                |                        |                                                               |
| CA_41E      | LTE B41  | 20                  | 39750               | 2506                        | QPSK           | 1          | 99        | LTE B41          | 20                  | 39948               | 2525.8                      | QPSK           | 1          | 0         | LTE B41                | 20       | 40146               | 2545.6         | LTE B41                | 20       | 40344               | 2565.4         | 17.11                  | 17.12    |                     |                |                        |                                                               |
| CA_41C-41C  | LTE B41  | 20                  | 39750               | 2506                        | QPSK           | 1          | 99        | LTE B41          | 20                  | 39948               | 2525.8                      | QPSK           | 1          | 0         | LTE B41                | 20       | 41292               | 2660.2         | LTE B41                | 20       | 41490               | 2680           | 17.13                  | 17.12    |                     |                |                        |                                                               |
| CA_41D-41A  | LTE B41  | 20                  | 39750               | 2506                        | QPSK           | 1          | 99        | LTE B41          | 20                  | 39948               | 2525.8                      | QPSK           | 1          | 0         | LTE B41                | 20       | 40146               | 2545.6         | LTE B41                | 20       | 41490               | 2680           | 17.14                  | 17.12    |                     |                |                        |                                                               |
| CA_41C-41D  | LTE B41  | 20                  | 39750               | 2506                        | QPSK           | 1          | 99        | LTE B41          | 20                  | 39948               | 2525.8                      | QPSK           | 1          | 0         | LTE B41                | 20       | 41292               | 2660.2         | LTE B41                | 20       | 41490               | 2680           | 17.15                  | 17.12    |                     |                |                        |                                                               |
| CA_41D-41C  | LTE B41  | 20                  | 39750               | 2506                        | QPSK           | 1          | 99        | LTE B41          | 20                  | 39948               | 2525.8                      | QPSK           | 1          | 0         | LTE B41                | 20       | 40146               | 2545.6         | LTE B41                | 20       | 41292               | 2660.2         | LTE B41                | 20       | 41490               | 2680           | 17.11                  | 17.12                                                         |

Table 100  
Output Powers – Ant 4B

| Combination | PCC Band | PCC                 |                     |                             |            | SCC1      |                  |          |                     | SCC2                |                             |            |           | SCC3             |          |                     |                | SCC4                   |          |                     |                | Power                  |                                                               |                      |       |      |       |       |
|-------------|----------|---------------------|---------------------|-----------------------------|------------|-----------|------------------|----------|---------------------|---------------------|-----------------------------|------------|-----------|------------------|----------|---------------------|----------------|------------------------|----------|---------------------|----------------|------------------------|---------------------------------------------------------------|----------------------|-------|------|-------|-------|
|             |          | PCC Bandwidth [MHz] | PCC (UL/DL) Channel | PCC (UL/DL) Frequency [MHz] | Modulation | PCC UL RB | PCC UL RB Offset | SCC Band | SCC Bandwidth [MHz] | SCC (UL/DL) Channel | SCC (UL/DL) Frequency [MHz] | Modulation | SCC UL RB | SCC UL RB Offset | SCC Band | SCC Bandwidth [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | SCC Band | SCC Bandwidth [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | ULCA Tx. Power with add'l CA configuration active in DL (dBm) | ULCA Tx. Power (dBm) |       |      |       |       |
| CA_41C-41A  | LTE B41  | 20                  | 40185               | 2549.5                      | QPSK       | 1         | 0                | LTE B41  | 20                  | 39987               | 2529.7                      | QPSK       | 1         | 99               | LTE B41  | 20                  | 41490          | 2680                   | -        | -                   | -              | -                      | 15.53                                                         | 15.54                |       |      |       |       |
| CA_41D      | LTE B41  | 20                  | 40185               | 2549.5                      | QPSK       | 1         | 0                | LTE B41  | 20                  | 39987               | 2529.7                      | QPSK       | 1         | 99               | LTE B41  | 20                  | 40383          | 2569.3                 | -        | -                   | -              | -                      | 15.55                                                         | 15.54                |       |      |       |       |
| CA_41E      | LTE B41  | 20                  | 40185               | 2549.5                      | QPSK       | 1         | 0                | LTE B41  | 20                  | 39987               | 2529.7                      | QPSK       | 1         | 99               | LTE B41  | 20                  | 40383          | 2569.3                 | LTE B41  | 20                  | 40383          | 2569.3                 | 15.57                                                         | 15.54                |       |      |       |       |
| CA_41C-41C  | LTE B41  | 20                  | 40185               | 2549.5                      | QPSK       | 1         | 0                | LTE B41  | 20                  | 39987               | 2529.7                      | QPSK       | 1         | 99               | LTE B41  | 20                  | 41292          | 2660.2                 | LTE B41  | 20                  | 41490          | 2680                   | 15.53                                                         | 15.54                |       |      |       |       |
| CA_41D-41A  | LTE B41  | 20                  | 40185               | 2549.5                      | QPSK       | 1         | 0                | LTE B41  | 20                  | 39987               | 2529.7                      | QPSK       | 1         | 99               | LTE B41  | 20                  | 40383          | 2569.3                 | LTE B41  | 20                  | 41490          | 2680                   | 15.52                                                         | 15.54                |       |      |       |       |
| CA_41C-41D  | LTE B41  | 20                  | 40185               | 2549.5                      | QPSK       | 1         | 0                | LTE B41  | 20                  | 39987               | 2529.7                      | QPSK       | 1         | 99               | LTE B41  | 20                  | 41292          | 2660.2                 | LTE B41  | 20                  | 41490          | 2680                   | 15.56                                                         | 15.54                |       |      |       |       |
| CA_41D-41C  | LTE B41  | 20                  | 40185               | 2549.5                      | QPSK       | 1         | 0                | LTE B41  | 20                  | 39987               | 2529.7                      | QPSK       | 1         | 99               | LTE B41  | 20                  | 40383          | 2569.3                 | LTE B41  | 20                  | 41292          | 2660.2                 | LTE B41                                                       | 20                   | 41490 | 2680 | 15.54 | 15.54 |

|                                    |                                                                                                                            |                       |                                 |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------|
| FCC ID: BCGA2014                   |  PCTEST<br>ENGINEERING LABORATORY, INC. | SAR EVALUATION REPORT | Reviewed by:<br>Quality Manager |
| Test Dates:<br>09/06/18 – 09/21/18 | DUT Type:<br>Tablet Device                                                                                                 |                       | APPENDIX H:<br>Page 37 of 39    |

## 1.5.2 DL Carrier Aggregation with DL 4x4 MIMO RF Conducted Powers

Note: 4x4 DL MIMO is only operating in the downlink. Uplink transmission is limited to a single output stream for each component carrier of ULCA CA\_41C or ULCA CA\_7C.

### 1.5.2.1 LTE Band 41

Table 101  
Output Powers – Ant 2A

| Combination | PCC      |                     |                     |                             |            |            |                   |                 | SCC1     |                     |                     |                             |            |            |                   |                 | SCC2     |                     |                |                        | SCC3            |          |                     |                | Power                  |                 |                                                               |                      |
|-------------|----------|---------------------|---------------------|-----------------------------|------------|------------|-------------------|-----------------|----------|---------------------|---------------------|-----------------------------|------------|------------|-------------------|-----------------|----------|---------------------|----------------|------------------------|-----------------|----------|---------------------|----------------|------------------------|-----------------|---------------------------------------------------------------|----------------------|
|             | PCC Band | PCC Bandwidth [MHz] | PCC (UL/DL) Channel | PCC (UL/DL) Frequency [MHz] | Modulation | PCC UL# RB | PCC UL# RB Offset | DL Ant. Config. | SCC Band | SCC Bandwidth [MHz] | SCC (UL/DL) Channel | SCC (UL/DL) Frequency [MHz] | Modulation | SCC UL# RB | SCC UL# RB Offset | DL Ant. Config. | SCC Band | SCC Bandwidth [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | DL Ant. Config. | SCC Band | SCC Bandwidth [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | DL Ant. Config. | ULCA Tx. Power with add'l CA configuration active in DL (dBm) | ULCA Tx. Power (dBm) |
| CA_41C [1]  | LTE B41  | 20                  | 40185               | 2549.5                      | QPSK       | 1          | 0                 | 4x4 MIMO        | LTE B41  | 20                  | 39987               | 2660.2                      | QPSK       | 1          | 99                | 4x4 MIMO        | -        | -                   | -              | -                      | -               | -        | -                   | -              | -                      | -               | 17.10                                                         | 17.12                |
| CA_41C-41A  | LTE B41  | 20                  | 40185               | 2549.5                      | QPSK       | 1          | 0                 | 2x2 MIMO        | LTE B41  | 20                  | 39987               | 2660.2                      | QPSK       | 1          | 99                | 2x2 MIMO        | LTE B41  | 20                  | 41490          | 2680                   | 4x4 MIMO        | -        | -                   | -              | -                      | -               | 17.11                                                         | 17.12                |
| CA_41C-41A  | LTE B41  | 20                  | 40185               | 2549.5                      | QPSK       | 1          | 0                 | 4x4 MIMO        | LTE B41  | 20                  | 39987               | 2660.2                      | QPSK       | 1          | 99                | 4x4 MIMO        | LTE B41  | 20                  | 41490          | 2680                   | 2x2 MIMO        | -        | -                   | -              | -                      | -               | 17.13                                                         | 17.12                |
| CA_41D-41A  | LTE B41  | 20                  | 40185               | 2549.5                      | QPSK       | 1          | 0                 | 2x2 MIMO        | LTE B41  | 20                  | 39987               | 2660.2                      | QPSK       | 1          | 99                | 2x2 MIMO        | LTE B41  | 20                  | 41094          | 2640.4                 | 2x2 MIMO        | LTE B41  | 20                  | 41490          | 2680                   | 4x4 MIMO        | 17.12                                                         | 17.12                |

Table 102  
Output Powers – Ant 2B

| Combination | PCC      |                     |                     |                             |            |            |                  |                 | SCC1     |                     |                     |                             |            |            |                  |                 | SCC2     |                     |                |                        |                 |          |                     |                | SCC3                   |                 |                                                               |                      |  |  |  |  | Power |  |
|-------------|----------|---------------------|---------------------|-----------------------------|------------|------------|------------------|-----------------|----------|---------------------|---------------------|-----------------------------|------------|------------|------------------|-----------------|----------|---------------------|----------------|------------------------|-----------------|----------|---------------------|----------------|------------------------|-----------------|---------------------------------------------------------------|----------------------|--|--|--|--|-------|--|
|             | PCC Band | PCC Bandwidth [MHz] | PCC (UL/DL) Channel | PCC (UL/DL) Frequency [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | DL Ant. Config. | SCC Band | SCC Bandwidth [MHz] | SCC (UL/DL) Channel | SCC (UL/DL) Frequency [MHz] | Modulation | SCC UL# RB | SCC UL RB Offset | DL Ant. Config. | SCC Band | SCC Bandwidth [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | DL Ant. Config. | SCC Band | SCC Bandwidth [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | DL Ant. Config. | ULCA Tx. Power with add'l CA configuration active in DL (dBm) | ULCA Tx. Power (dBm) |  |  |  |  |       |  |
| CA_41C [1]  | LTE B41  | 20                  | 39750               | 2506                        | QPSK       | 1          | 99               | 4x4 MIMO        | LTE B41  | 20                  | 39948               | 2525.8                      | QPSK       | 1          | 0                | 4x4 MIMO        | -        | -                   | -              | -                      | -               | -        | -                   | -              | -                      | -               | 15.41                                                         | 15.39                |  |  |  |  |       |  |
| CA_41C-41A  | LTE B41  | 20                  | 39750               | 2506                        | QPSK       | 1          | 99               | 2x2 MIMO        | LTE B41  | 20                  | 39948               | 2525.8                      | QPSK       | 1          | 0                | 2x2 MIMO        | LTE B41  | 20                  | 41490          | 2680                   | 4x4 MIMO        | -        | -                   | -              | -                      | -               | 15.43                                                         | 15.39                |  |  |  |  |       |  |
| CA_41C-41A  | LTE B41  | 20                  | 39750               | 2506                        | QPSK       | 1          | 99               | 4x4 MIMO        | LTE B41  | 20                  | 39948               | 2525.8                      | QPSK       | 1          | 0                | 4x4 MIMO        | LTE B41  | 20                  | 41490          | 2680                   | 2x2 MIMO        | -        | -                   | -              | -                      | -               | 15.42                                                         | 15.39                |  |  |  |  |       |  |
| CA_41D-41A  | LTE B41  | 20                  | 39750               | 2506                        | QPSK       | 1          | 99               | 2x2 MIMO        | LTE B41  | 20                  | 39948               | 2525.8                      | QPSK       | 1          | 0                | 2x2 MIMO        | LTE B41  | 20                  | 40146          | 2545.6                 | 2x2 MIMO        | LTE B41  | 20                  | 41490          | 2680                   | 4x4 MIMO        | 15.45                                                         | 15.39                |  |  |  |  |       |  |

Table 103  
Output Powers – Ant 4A

| Combination | PCC      |                     |                     |                             |            |            |                   |                 | SCC1     |                     |                     |                             |            |            |                   |                 | SCC2     |                     |                |                        | SCC3            |          |                     |                | Power                  |                 |                                                               |                      |
|-------------|----------|---------------------|---------------------|-----------------------------|------------|------------|-------------------|-----------------|----------|---------------------|---------------------|-----------------------------|------------|------------|-------------------|-----------------|----------|---------------------|----------------|------------------------|-----------------|----------|---------------------|----------------|------------------------|-----------------|---------------------------------------------------------------|----------------------|
|             | PCC Band | PCC Bandwidth [MHz] | PCC (UL/DL) Channel | PCC (UL/DL) Frequency [MHz] | Modulation | PCC UL# RB | PCC UL# RB Offset | DL Ant. Config. | SCC Band | SCC Bandwidth [MHz] | SCC (UL/DL) Channel | SCC (UL/DL) Frequency [MHz] | Modulation | SCC UL# RB | SCC UL# RB Offset | DL Ant. Config. | SCC Band | SCC Bandwidth [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | DL Ant. Config. | SCC Band | SCC Bandwidth [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | DL Ant. Config. | ULCA Tx. Power with add'l CA configuration active in DL (dBm) | ULCA Tx. Power (dBm) |
| CA_41C [1]  | LTE B41  | 20                  | 39750               | 2506                        | QPSK       | 1          | 99                | 4x4 MIMO        | LTE B41  | 20                  | 39948               | 2525.8                      | QPSK       | 1          | 0                 | 4x4 MIMO        | -        | -                   | -              | -                      | -               | -        | -                   | -              | -                      | -               | 17.17                                                         | 17.12                |
| CA_41C-41A  | LTE B41  | 20                  | 39750               | 2506                        | QPSK       | 1          | 99                | 2x2 MIMO        | LTE B41  | 20                  | 39948               | 2525.8                      | QPSK       | 1          | 0                 | 2x2 MIMO        | LTE B41  | 20                  | 41490          | 2680                   | 4x4 MIMO        | -        | -                   | -              | -                      | -               | 17.19                                                         | 17.12                |
| CA_41C-41A  | LTE B41  | 20                  | 39750               | 2506                        | QPSK       | 1          | 99                | 4x4 MIMO        | LTE B41  | 20                  | 39948               | 2525.8                      | QPSK       | 1          | 0                 | 4x4 MIMO        | LTE B41  | 20                  | 41490          | 2680                   | 2x2 MIMO        | -        | -                   | -              | -                      | -               | 17.18                                                         | 17.12                |
| CA_41D-41A  | LTE B41  | 20                  | 39750               | 2506                        | QPSK       | 1          | 99                | 2x2 MIMO        | LTE B41  | 20                  | 39948               | 2525.8                      | QPSK       | 1          | 0                 | 2x2 MIMO        | LTE B41  | 20                  | 40146          | 2545.6                 | 2x2 MIMO        | LTE B41  | 20                  | 41490          | 2680                   | 4x4 MIMO        | 17.17                                                         | 17.12                |

Table 104  
Output Powers – Ant 4B

| Combination | PCC      |                     |                     |                             |            |            |                   |                 | SCC1     |                     |                     |                             |            |            |                   |                 | SCC2     |                     |                |                        |                 |          |                     |                | SCC3                   |                 |                                                               |                      |  |  |  |  | Power |  |
|-------------|----------|---------------------|---------------------|-----------------------------|------------|------------|-------------------|-----------------|----------|---------------------|---------------------|-----------------------------|------------|------------|-------------------|-----------------|----------|---------------------|----------------|------------------------|-----------------|----------|---------------------|----------------|------------------------|-----------------|---------------------------------------------------------------|----------------------|--|--|--|--|-------|--|
|             | PCC Band | PCC Bandwidth [MHz] | PCC (UL/DL) Channel | PCC (UL/DL) Frequency [MHz] | Modulation | PCC UL# RB | PCC UL# RB Offset | DL Ant. Config. | SCC Band | SCC Bandwidth [MHz] | SCC (UL/DL) Channel | SCC (UL/DL) Frequency [MHz] | Modulation | SCC UL# RB | SCC UL# RB Offset | DL Ant. Config. | SCC Band | SCC Bandwidth [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | DL Ant. Config. | SCC Band | SCC Bandwidth [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | DL Ant. Config. | ULCA Tx. Power with add'l CA configuration active in DL (dBm) | ULCA Tx. Power (dBm) |  |  |  |  |       |  |
| CA_41C [1]  | LTE B41  | 20                  | 40185               | 2549.5                      | QPSK       | 1          | 0                 | 4x4 MIMO        | LTE B41  | 20                  | 39987               | 2529.7                      | QPSK       | 1          | 99                | 4x4 MIMO        | -        | -                   | -              | -                      | -               | -        | -                   | -              | -                      | -               | 15.57                                                         | 15.54                |  |  |  |  |       |  |
| CA_41C-41A  | LTE B41  | 20                  | 40185               | 2549.5                      | QPSK       | 1          | 0                 | 2x2 MIMO        | LTE B41  | 20                  | 39987               | 2529.7                      | QPSK       | 1          | 99                | 2x2 MIMO        | LTE B41  | 20                  | 41490          | 2680                   | 4x4 MIMO        | -        | -                   | -              | -                      | -               | 15.59                                                         | 15.54                |  |  |  |  |       |  |
| CA_41C-41A  | LTE B41  | 20                  | 40185               | 2549.5                      | QPSK       | 1          | 0                 | 4x4 MIMO        | LTE B41  | 20                  | 39987               | 2529.7                      | QPSK       | 1          | 99                | 4x4 MIMO        | LTE B41  | 20                  | 41490          | 2680                   | 2x2 MIMO        | -        | -                   | -              | -                      | -               | 15.61                                                         | 15.54                |  |  |  |  |       |  |
| CA_41D-41A  | LTE B41  | 20                  | 40185               | 2549.5                      | QPSK       | 1          | 0                 | 2x2 MIMO        | LTE B41  | 20                  | 39987               | 2529.7                      | QPSK       | 1          | 99                | 2x2 MIMO        | LTE B41  | 20                  | 40383          | 2569.3                 | 2x2 MIMO        | LTE B41  | 20                  | 41490          | 2680                   | 4x4 MIMO        | 15.58                                                         | 15.54                |  |  |  |  |       |  |

|                                    |                                                                                                                                   |                       |                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------|
| FCC ID: BCGA2014                   |  <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | SAR EVALUATION REPORT | Reviewed by:<br>Quality Manager |
| Test Dates:<br>09/06/18 – 09/21/18 | DUT Type:<br>Tablet Device                                                                                                        |                       | APPENDIX H:<br>Page 38 of 39    |

## 1.5.2.2 LTE Band 7

**Table 105**  
**Output Powers – Ant 2A**

|             | PCC      |                     |                |                        |                |                        |            |            |                  |                 | SCC      |                     |                |                        |                |                        |            |            |                  |                 | Power                                                         |                      |
|-------------|----------|---------------------|----------------|------------------------|----------------|------------------------|------------|------------|------------------|-----------------|----------|---------------------|----------------|------------------------|----------------|------------------------|------------|------------|------------------|-----------------|---------------------------------------------------------------|----------------------|
| Combination | PCC Band | PCC Bandwidth [MHz] | PCC UL Channel | PCC UL Frequency [MHz] | PCC DL Channel | PCC DL Frequency [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | DL Ant. Config. | SCC Band | SCC Bandwidth [MHz] | SCC UL Channel | SCC UL Frequency [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | Modulation | SCC UL# RB | SCC UL RB Offset | DL Ant. Config. | ULCA Tx. Power with add'l CA configuration active in DL (dBm) | ULCA Tx. Power (dBm) |
| CA_[7C] (1) | LTE B7   | 20                  | 21350          | 2560.0                 | 3350           | 2680.0                 | QPSK       | 50         | 0                | 4x4 MIMO        | LTE B7   | 20                  | 21152          | 2540.2                 | 3152           | 2660.2                 | QPSK       | 50         | 50               | 4x4 MIMO        | 14.08                                                         | 14.02                |

**Table 106**  
**Output Powers – Ant 2B**

|             | PCC      |                     |                |                        |                |                        |            |            |                  |                 | SCC      |                     |                |                        |                |                        |            |            |                  |                 | Power                                                         |                      |
|-------------|----------|---------------------|----------------|------------------------|----------------|------------------------|------------|------------|------------------|-----------------|----------|---------------------|----------------|------------------------|----------------|------------------------|------------|------------|------------------|-----------------|---------------------------------------------------------------|----------------------|
| Combination | PCC Band | PCC Bandwidth [MHz] | PCC UL Channel | PCC UL Frequency [MHz] | PCC DL Channel | PCC DL Frequency [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | DL Ant. Config. | SCC Band | SCC Bandwidth [MHz] | SCC UL Channel | SCC UL Frequency [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | Modulation | SCC UL# RB | SCC UL RB Offset | DL Ant. Config. | ULCA Tx. Power with add'l CA configuration active in DL (dBm) | ULCA Tx. Power (dBm) |
| CA_[7C] (1) | LTE B7   | 20                  | 21100          | 2535.0                 | 3100           | 2655.0                 | QPSK       | 50         | 0                | 4x4 MIMO        | LTE B7   | 20                  | 20902          | 2515.2                 | 2902           | 2635.2                 | QPSK       | 50         | 50               | 4x4 MIMO        | 12.99                                                         | 12.88                |

**Table 107**  
**Output Powers – Ant 4A**

|             | PCC      |                     |                |                        |                |                        |            |            |                  |                 | SCC      |                     |                |                        |                |                        |            |            |                  |                 | Power                                                         |                      |
|-------------|----------|---------------------|----------------|------------------------|----------------|------------------------|------------|------------|------------------|-----------------|----------|---------------------|----------------|------------------------|----------------|------------------------|------------|------------|------------------|-----------------|---------------------------------------------------------------|----------------------|
| Combination | PCC Band | PCC Bandwidth [MHz] | PCC UL Channel | PCC UL Frequency [MHz] | PCC DL Channel | PCC DL Frequency [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | DL Ant. Config. | SCC Band | SCC Bandwidth [MHz] | SCC UL Channel | SCC UL Frequency [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | Modulation | SCC UL# RB | SCC UL RB Offset | DL Ant. Config. | ULCA Tx. Power with add'l CA configuration active in DL (dbm) | ULCA Tx. Power (dbm) |
| CA_[7C] (1) | LTE B7   | 20                  | 21350          | 2560.0                 | 3350           | 2680.0                 | QPSK       | 1          | 0                | 4x4 MIMO        | LTE B7   | 20                  | 21152          | 2540.2                 | 3152           | 2660.2                 | QPSK       | 1          | 99               | 4x4 MIMO        | 14.20                                                         | 14.06                |

**Table 108**  
**Output Powers – Ant 4B**

|             | PCC      |                     |                |                        |                |                        |            |            |                  |                 | SCC      |                     |                |                        |                |                        |            |            |                  |                 | Power                                                         |                      |
|-------------|----------|---------------------|----------------|------------------------|----------------|------------------------|------------|------------|------------------|-----------------|----------|---------------------|----------------|------------------------|----------------|------------------------|------------|------------|------------------|-----------------|---------------------------------------------------------------|----------------------|
| Combination | PCC Band | PCC Bandwidth [MHz] | PCC UL Channel | PCC UL Frequency [MHz] | PCC DL Channel | PCC DL Frequency [MHz] | Modulation | PCC UL# RB | PCC UL RB Offset | DL Ant. Config. | SCC Band | SCC Bandwidth [MHz] | SCC UL Channel | SCC UL Frequency [MHz] | SCC DL Channel | SCC DL Frequency [MHz] | Modulation | SCC UL# RB | SCC UL RB Offset | DL Ant. Config. | ULCA Tx. Power with add'l CA configuration active in DL (dBm) | ULCA Tx. Power (dBm) |
| CA_[7C] (1) | LTE B7   | 20                  | 21350          | 2560.0                 | 3350           | 2680.0                 | QPSK       | 1          | 0                | 4x4 MIMO        | LTE B7   | 20                  | 21152          | 2540.2                 | 3152           | 2660.2                 | QPSK       | 1          | 99               | 4x4 MIMO        | 12.18                                                         | 12.05                |

|                                           |                                                                                                                                   |                              |                                        |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------|
| <b>FCC ID:</b> BCGA2014                   |  <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | <b>SAR EVALUATION REPORT</b> | <b>Reviewed by:</b><br>Quality Manager |
| <b>Test Dates:</b><br>09/06/18 – 09/21/18 | <b>DUT Type:</b><br>Tablet Device                                                                                                 |                              | <b>APPENDIX H:</b><br>Page 39 of 39    |