

## APPENDIX F: 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

| Table 2 Example of Channel Bands for 1x1 Downlink MIMO Configurations |                   |                                   |               |             |                                             |                 |               |                                   |               |         |                 |                                             |               |               |                                   |               |         |     |             |                                             |
|-----------------------------------------------------------------------|-------------------|-----------------------------------|---------------|-------------|---------------------------------------------|-----------------|---------------|-----------------------------------|---------------|---------|-----------------|---------------------------------------------|---------------|---------------|-----------------------------------|---------------|---------|-----|-------------|---------------------------------------------|
| Index                                                                 | 2CC               | Supported Channel Bandwidth (MHz) |               | Restriction | Completely Covered by Measurement Superband | Index           | 2CC           | Supported Channel Bandwidth (MHz) |               |         | Restriction     | Completely Covered by Measurement Superband | Index         | 4CC           | Supported Channel Bandwidth (MHz) |               |         |     | Restriction | Completely Covered by Measurement Superband |
|                                                                       |                   | CC1                               | CC2           |             |                                             |                 |               | CC1                               | CC2           | CC3     |                 |                                             |               |               | CC1                               | CC2           | CC3     | CC4 |             |                                             |
| CC#RM1                                                                | CA [2C]           | 5, 10, 15, 20                     | 5, 10, 15, 20 |             | CC#RM6                                      | CA [2A]-2A-4A   | 5, 10, 15, 20 | 5, 10, 15, 20                     | 5, 10, 15, 20 |         | CC#RM11         | CA [2A]-5A-66A                              | 5, 10, 15, 20 | 5, 10         | 5, 10, 15, 20                     | 5, 10, 15, 20 | No      |     |             |                                             |
| CC#RM2                                                                | CA [10A]-3A       | 5, 10, 15, 20                     | 5, 10, 15, 20 |             | CC#RM7                                      | CA [2A]-2A-6A   | 5, 10, 15, 20 | 5, 10, 15, 20                     | 5, 10, 15, 20 |         | CC#RM12         | CA [2A]-5B-66A                              | 5, 10, 15, 20 | 5, 10         | 5, 10, 15, 20                     | 5, 10, 15, 20 | No      |     |             |                                             |
| CC#RM3                                                                | CA [2A]-22A       | 5, 10, 15, 20                     | 5, 10, 15, 20 | No          | CC#RM8                                      | CA [2A]-2A-12A  | 5, 10, 15, 20 | 5, 10, 15, 20                     | 5, 10         |         | CC#RM13         | CA [2A]-5A-66B                              | 5, 10, 15, 20 | 5, 10         | 5, 10, 15, 20                     | 5, 10, 15     | No      |     |             |                                             |
| CC#RM4                                                                | CA [2A]-4A-72     | 5, 10, 15, 20                     | 5, 10, 15, 20 | No          | CC#RM9                                      | CA [2A]-2A-33A  | 5, 10, 15, 20 | 5, 10, 15, 20                     | 5, 10         |         | CC#RM14         | CA [2A]-5A-66B                              | 5, 10, 15, 20 | 5, 10         | 5, 10, 15, 20                     | 5, 10, 15     | No      |     |             |                                             |
| CC#RM5                                                                | CA [2A]-10A-13    | 5, 10, 15, 20                     | 5, 10, 15, 20 | No          | CC#RM10                                     | CA [2A]-2A-30A  | 5, 10, 15, 20 | 5, 10, 15, 20                     | 5, 10         |         | CC#RM15         | CA [2A]-5A-66C                              | 5, 10, 15, 20 | 5, 10         | 5, 10, 15, 20                     | 5, 10, 15, 20 | No      |     |             |                                             |
| CC#RM6                                                                | CA [2A]-33A       | 5, 10, 15, 20                     |               | CC#RM3      | CA [2C]-66A                                 | 5, 10, 15, 20   | 5, 10, 15, 20 | 5, 10, 15, 20                     |               | CC#RM16 | CA [2A]-5A-66C  | 5, 10, 15, 20                               | 5, 10         | 5, 10, 15, 20 | 5, 10, 15, 20                     | No            |         |     |             |                                             |
| CC#RM7                                                                | CA [2A]-32A-1     | 5, 10, 15, 20                     | 3, 6, 10      |             | CC#RM7                                      | CA [2C]-66B     | 5, 10, 15, 20 | 5, 10, 15, 20                     | 5, 10, 15, 20 |         | CC#RM17         | CA [2A]-5A-66C                              | 5, 10, 15, 20 | 5, 10         | 5, 10, 15, 20                     | 5, 10, 15, 20 | No      |     |             |                                             |
| CC#RM8                                                                | CA [10A]-33A      | 5, 10, 15, 20                     | 10            | CC#RM6      | CA [2C]-166A                                | 5, 10, 15, 20   | 5, 10, 15, 20 | 5, 10, 15, 20                     |               | CC#RM18 | CA [2A]-5A-66C  | 5, 10, 15, 20                               | 5, 10         | 5, 10, 15, 20 | 5, 10, 15, 20                     | No            |         |     |             |                                             |
| CC#RM9                                                                | CA [2A]-37A       | 5, 10                             | 5, 10         | No          | CC#RM9                                      | CA [2A]-2A-66A  | 5, 10, 15, 20 | 5, 10, 15, 20                     | 5, 10, 15, 20 |         | CC#RM19         | CA [2A]-5A-66C                              | 5, 10, 15, 20 | 5, 10         | 5, 10, 15, 20                     | 5, 10, 15, 20 | No      |     |             |                                             |
| CC#RM10                                                               | CA [2A]-29A-2     | 5, 10, 15, 20                     | 5, 10         | B29 SC Only | CC#RM12                                     | CA [2A]-36A     | 5, 10, 15, 20 | 5, 10, 15, 20                     | 5, 10, 15, 20 |         | CC#RM20         | CA [2A]-5A-66C                              | 5, 10, 15, 20 | 5, 10         | 5, 10, 15, 20                     | 5, 10, 15, 20 | No      |     |             |                                             |
| CC#RM11                                                               | CA [2A]-36A       | 5, 10, 15, 20                     | 5, 10         | CC#RM6      | CA [2A]-36A                                 | 5, 10, 15, 20   | 5, 10, 15, 20 | 5, 10, 15, 20                     |               | CC#RM21 | CA [2A]-5A-66C  | 5, 10, 15, 20                               | 5, 10         | 5, 10, 15, 20 | 5, 10, 15, 20                     | No            |         |     |             |                                             |
| CC#RM12                                                               | CA [2A]-66A-2     | 5, 10, 15, 20                     | 5, 10, 15, 20 | CC#RM1      | CA [2A]-4A-29A                              | 5, 10, 15, 20   | 5, 10, 15, 20 | 5, 10                             | B29 SC Only   | CC#RM22 | CA [2A]-5A-66C  | 5, 10, 15, 20                               | 5, 10         | 5, 10, 15, 20 | 5, 10, 15, 20                     | No            |         |     |             |                                             |
| CC#RM13                                                               | CA [2A]-66A-2     | 5, 10, 15, 20                     | 5, 10, 15, 20 | CC#RM2      | CA [2A]-4A-71A                              | 5, 10, 15, 20   | 5, 10, 15, 20 | 5, 10, 15, 20                     |               | CC#RM23 | CA [2A]-5A-66C  | 5, 10, 15, 20                               | 5, 10         | 5, 10, 15, 20 | 5, 10, 15, 20                     | No            |         |     |             |                                             |
| CC#RM14                                                               | CA [2A]-66A-2     | 5, 10, 15, 20                     | 5, 10, 15, 20 | CC#RM1      | CA [2A]-5A-66A                              | 5, 10, 15, 20   | 5, 10, 15, 20 | 5, 10, 15, 20                     |               | CC#RM24 | CA [2A]-5A-66C  | 5, 10, 15, 20                               | 5, 10         | 5, 10, 15, 20 | 5, 10, 15, 20                     | No            |         |     |             |                                             |
| CC#RM15                                                               | CA [2A]-71A       | 5, 10, 15, 20                     | 5, 10, 15, 20 | CC#RM11     | CA [2A]-5A-66A                              | 5, 10, 15, 20   | 5, 10         | 5, 10, 15, 20                     |               | CC#RM25 | CA [2A]-5A-66C  | 5, 10, 15, 20                               | 5, 10         | 5, 10, 15, 20 | 5, 10, 15, 20                     | No            |         |     |             |                                             |
| CC#RM16                                                               | CA [5A]-66A       | 5, 10                             | 5, 10         | CC#RM16     | CA [2A]-5A-66A                              | 5, 10, 15, 20   | 5, 10         | 5, 10, 15, 20                     |               | CC#RM26 | CA [2A]-5A-66C  | 5, 10, 15, 20                               | 5, 10         | 5, 10, 15, 20 | 5, 10, 15, 20                     | No            |         |     |             |                                             |
| CC#RM17                                                               | CA [2A]-13A-66A-4 | 5, 10                             | 5, 10, 15, 20 | CC#RM17     | CA [2A]-2A-12A-66A                          | 5, 10, 15, 20   | 5, 10         | 5, 10, 15, 20                     |               | CC#RM27 | CA [2A]-66A-66A | 5, 10, 15, 20                               | 5, 10, 15, 20 | 5, 10, 15, 20 | 5, 10, 15, 20                     | No            |         |     |             |                                             |
| CC#RM18                                                               | CA [1A]-66A       | 5, 10                             | 5, 10, 15, 20 | CC#RM19     | CA [2A]-13A-66A                             | 5, 10, 15, 20   | 5, 10         | 5, 10, 15, 20                     |               | CC#RM28 | CA [2A]-66A-66A | 5, 10, 15, 20                               | 5, 10         | 5, 10, 15, 20 | 5, 10, 15, 20                     | No            |         |     |             |                                             |
| CC#RM19                                                               | CA [30A]-66A      | 5, 10                             | 5, 10, 15, 20 | CC#RM20     | CA [2A]-23A-166A                            | 5, 10, 15, 20   | 5, 10         | 5, 10, 15, 20                     |               | CC#RM29 | CA [2A]-66A-71A | 5, 10, 15, 20                               | 5, 10, 15, 20 | 5, 10, 15, 20 | 5, 10, 15, 20                     | No            |         |     |             |                                             |
| CC#RM20                                                               | CA [5A]-66A       | 5, 10, 15, 20                     | 5, 10, 15, 20 | CC#RM18     | CA [2A]-30A-66A                             | 5, 10, 15, 20   | 5, 10         | 5, 10, 15, 20                     |               | CC#RM30 | CA [2A]-66A-71A | 5, 10, 15, 20                               | 5, 10, 15, 20 | 5, 10, 15, 20 | 5, 10, 15, 20                     | No            |         |     |             |                                             |
| CC#RM21                                                               | CA [66C]          | 5, 10, 15, 20                     | 5, 10, 15, 20 | CC#RM6      | CA [2A]-66B                                 | 5, 10, 15, 20   | 5, 10, 15     | 5, 10, 15                         | CC#RM3        | CC#RM22 | CA [2A]-66B     | 5, 10, 15, 20                               | 5, 10, 15     | 5, 10, 15     | 5, 10, 15                         | CC#RM3        |         |     |             |                                             |
| CC#RM22                                                               | CA [66A]-66A      | 5, 10, 15, 20                     | 5, 10, 15, 20 | CC#RM28     | CA [2A]-66B                                 | 5, 10, 15, 20   | 5, 10, 15     | 5, 10, 15                         | CC#RM16       | CC#RM23 | CA [2A]-66B     | 5, 10, 15, 20                               | 5, 10, 15     | 5, 10, 15     | 5, 10, 15                         | CC#RM16       |         |     |             |                                             |
| CC#RM23                                                               | CA [66A]-66A      | 5, 10, 15, 20                     | 5, 10, 15, 20 | No          | CC#RM24                                     | CA [2A]-66B     | 5, 10, 15, 20 | 5, 10, 15, 20                     | 5, 10, 15, 20 | CC#RM3  | CC#RM25         | CA [2A]-66C                                 | 5, 10, 15, 20 | 5, 10, 15, 20 | 5, 10, 15, 20                     | 5, 10, 15, 20 | CC#RM3  |     |             |                                             |
|                                                                       |                   |                                   |               |             | CC#RM25                                     | CA [2A]-66C     | 5, 10, 15, 20 | 5, 10, 15, 20                     | 5, 10, 15, 20 | CC#RM16 | CC#RM26         | CA [2A]-66C                                 | 5, 10, 15, 20 | 5, 10, 15, 20 | 5, 10, 15, 20                     | 5, 10, 15, 20 | CC#RM16 |     |             |                                             |
|                                                                       |                   |                                   |               |             | CC#RM26                                     | CA [2A]-66C     | 5, 10, 15, 20 | 5, 10, 15, 20                     | 5, 10, 15, 20 | CC#RM16 | CC#RM27         | CA [2A]-66A-66A                             | 5, 10, 15, 20 | 5, 10, 15, 20 | 5, 10, 15, 20                     | 5, 10, 15, 20 | CC#RM16 |     |             |                                             |
|                                                                       |                   |                                   |               |             | CC#RM27                                     | CA [2A]-66A-66A | 5, 10, 15, 20 | 5, 10, 15, 20                     | 5, 10, 15, 20 | CC#RM16 | CC#RM28         | CA [2A]-66A-66A                             | 5, 10, 15, 20 | 5, 10, 15, 20 | 5, 10, 15, 20                     | 5, 10, 15, 20 | CC#RM16 |     |             |                                             |
|                                                                       |                   |                                   |               |             | CC#RM28                                     | CA [2A]-66A-66A | 5, 10, 15, 20 | 5, 10, 15, 20                     | 5, 10, 15, 20 | CC#RM16 | CC#RM29         | CA [2A]-66A-71A                             | 5, 10, 15, 20 | 5, 10, 15, 20 | 5, 10, 15, 20                     | 5, 10, 15, 20 | CC#RM16 |     |             |                                             |

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

|                                           |                                                                                                                                                   |                                   |                                                                                       |                                        |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: A3LSMN981W                        |  <b>PCTEST</b><br><small>Proud to be part of e element</small> | <b>SAR EVALUATION REPORT</b>      |  | <b>Reviewed by:</b><br>Quality Manager |
| <b>Test Dates:</b><br>06/03/20 - 07/13/20 | <b>DUT Type:</b><br>Portable Handset                                                                                                              | <b>APPENDIX F:</b><br>Page 1 of 9 |                                                                                       |                                        |

## 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 maximum 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. All bands required for SAR testing per FCC KDB procedures were considered. Based on the measured maximum powers below, no additional SAR tests were required for DLCA SAR configurations.

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.

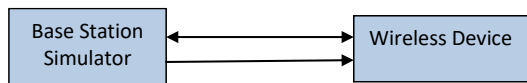


**Figure 1**  
**DL CA Power Measurement Setup**

|                                    |                                                                                                                                                                                                              |                       |                                                                                       |                                 |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN981W                 |  <b>PCTEST</b><br>Proud to be part of  | SAR EVALUATION REPORT |  | Reviewed by:<br>Quality Manager |
| Test Dates:<br>06/03/20 - 07/13/20 | DUT Type:<br>Portable Handset                                                                                                                                                                                |                       |                                                                                       | APPENDIX F:<br>Page 2 of 9      |

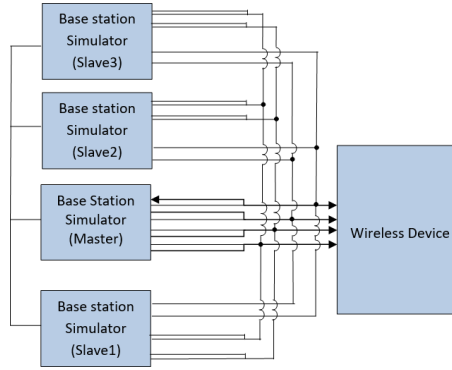


Figure 2  
DL CA with DL 4x4 MIMO Power Measurement Setup

## 1.3 Downlink Carrier Aggregation RF Conducted Powers

### 1.3.1 LTE Band 12 as PCC

Table 1  
Maximum Output Powers

| Combination     | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | 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] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA 2A-12A (1)   | LTE B12  | 5            | 23095        | 707.5                | QPSK | 1         | 12               | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | -        | -            | -                | -                    | 25.00                                 | 25.04                             |
| CA 2A-12A-30A   | LTE B12  | 5            | 23095        | 707.5                | QPSK | 1         | 12               | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B30  | 10           | 9820             | 2355                 | 25.07                                 | 25.04                             |
| CA 2A-2A-7A-12A | LTE B12  | 5            | 23095        | 707.5                | QPSK | 1         | 12               | 5095             | 737.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | 25.00                                 | 25.04                             |
| CA 2A-7A-12B    | LTE B12  | 5            | 23095        | 707.5                | QPSK | 1         | 12               | 5095             | 737.5                | LTE B12  | 5            | 5047             | 732.7                | LTE B2   | 20           | 900              | 1960                 | 25.06                                 | 25.04                             |

### 1.3.2 LTE Band 13 as PCC

Table 2  
Maximum Output Powers

| Combination     | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | 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] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA 2A-13A       | LTE B13  | 10           | 23230        | 782                  | QPSK | 1         | 49               | 5230             | 751                  | LTE B2   | 20           | 900              | 1960                 | -        | -            | -                | -                    | 25.28                                 | 25.00                             |
| CA 4A-13A       | LTE B13  | 10           | 23230        | 782                  | QPSK | 1         | 49               | 5230             | 751                  | LTE B4   | 20           | 2175             | 2132.5               | -        | -            | -                | -                    | 25.99                                 | 25.00                             |
| CA 13A-66A      | LTE B13  | 5            | 23230        | 782                  | QPSK | 1         | 24               | 5230             | 751                  | LTE B66  | 20           | 66786            | 2145                 | -        | -            | -                | -                    | 25.11                                 | 25.11                             |
| CA 2A-13A-66A   | LTE B13  | 5            | 23230        | 782                  | QPSK | 1         | 24               | 5230             | 751                  | LTE B2   | 20           | 900              | 1960                 | LTE B66  | 20           | 66786            | 2145                 | 25.16                                 | 25.11                             |
| CA 13A-66A-66A  | LTE B13  | 5            | 23230        | 782                  | QPSK | 1         | 24               | 5230             | 751                  | LTE B66  | 20           | 66786            | 2145                 | LTE B66  | 20           | 67236            | 2190                 | 25.18                                 | 25.11                             |
| CA 2A-7A-7A-13A | LTE B13  | 5            | 23230        | 782                  | QPSK | 1         | 24               | 5230             | 751                  | LTE B2   | 20           | 900              | 1960                 | LTE B7   | 20           | 3100             | 2655                 | 25.17                                 | 25.11                             |

### 1.3.3 LTE Band 5 as PCC

Table 3  
Maximum Output Powers

| Combination          | PCC Band | PCC BW [MHz] | PCC (UL) Ch. | PCC (UL) Freq. [MHz] | 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] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA 5A-7A             | LTE B5   | 10           | 20525        | 836.5                | QPSK | 1         | 0                | 2525             | 881.5                | LTE B7   | 20           | 3100             | 2655                 | -        | -            | -                | -                    | 25.38                                 | 25.33                             |
| CA 5A-38A            | LTE B5   | 10           | 20525        | 836.5                | QPSK | 1         | 0                | 2525             | 881.5                | LTE B38  | 20           | 38000            | 2595                 | -        | -            | -                | -                    | 25.24                                 | 25.33                             |
| CA 5A-7A-7A          | LTE B5   | 10           | 20525        | 836.5                | QPSK | 1         | 0                | 2525             | 881.5                | LTE B7   | 20           | 3100             | 2655                 | LTE B7   | 20           | 2850             | 2630                 | 25.39                                 | 25.33                             |
| CA 5A-7C             | LTE B5   | 10           | 20525        | 836.5                | QPSK | 1         | 0                | 2525             | 881.5                | LTE B7   | 20           | 3100             | 2655                 | LTE B7   | 20           | 2850             | 2635.2               | 25.41                                 | 25.33                             |
| CA 5A-66C            | LTE B5   | 10           | 20525        | 836.5                | QPSK | 1         | 0                | 2525             | 881.5                | LTE B66  | 20           | 66096            | 2145                 | LTE B66  | 20           | 66094            | 2154.8               | 25.28                                 | 25.33                             |
| CA 2A-4A-5A-30A      | LTE B5   | 10           | 20525        | 836.5                | QPSK | 1         | 0                | 2525             | 881.5                | LTE B2   | 20           | 900              | 1960                 | LTE B4   | 20           | 2175             | 2132.5               | 25.25                                 | 25.33                             |
| CA 2A-2A-5A-66A-66A  | LTE B5   | 10           | 20525        | 836.5                | QPSK | 1         | 0                | 2525             | 881.5                | LTE B2   | 20           | 900              | 1960                 | LTE B2   | 20           | 700              | 1940                 | 25.30                                 | 25.33                             |
| CA 2A-5A-30A-66A-66A | LTE B5   | 10           | 20525        | 836.5                | QPSK | 1         | 0                | 2525             | 881.5                | LTE B2   | 20           | 900              | 1960                 | LTE B30  | 10           | 9820             | 2355                 | 25.35                                 | 25.33                             |
| CA 2A-5A-30A-66A-66A | LTE B5   | 10           | 20525        | 836.5                | QPSK | 1         | 0                | 2525             | 881.5                | LTE B2   | 20           | 900              | 1960                 | LTE B66  | 20           | 66786            | 2145                 | 25.30                                 | 25.33                             |

|                                    |                                                                                     |                       |                                                                                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN981W                 |  | SAR EVALUATION REPORT |  | Reviewed by:<br>Quality Manager |
| Test Dates:<br>06/03/20 - 07/13/20 | DUT Type:<br>Portable Handset                                                       |                       |                                                                                       | APPENDIX F:<br>Page 3 of 9      |

### 1.3.4 LTE Band 66 as PCC

**Table 4**  
**Maximum Output Powers**

[illegible]

### 1.3.5 LTE Band 30 as PCC

**Table 5**  
**Maximum Output Powers**

| Combination           | PCB Band | PCC          |             |                      |      |           |                  | SSC 1       |                      |          |              | SSC 2       |                      |          |              | SSC 3       |                      |          |              | SSC 4       |                      |          |              | 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] | SSC Band | SSC BW [MHz] | SSC [DL] Ch | SSC [DL] Freq. [MHz] | SSC Band | SSC BW [MHz] | SSC [DL] Ch | SSC [DL] Freq. [MHz] | SSC Band | SSC BW [MHz] | SSC [DL] Ch | SSC [DL] Freq. [MHz] | SSC Band | SSC BW [MHz] | SSC [DL] Ch | SSC [DL] Freq. [MHz] | LTE Tx Power with PC CA Enabled [dBm] | LTE Single Carrier Tx Power [dBm] |       |
| CA 2A-12A-30A         | LTE E20  | 5            | 27710       | 2310                 | QPSK | 1         | 12               | 9820        | 2385                 | LTE B2   | 20           | 900         | 1960                 | LTE B12  | 30           | 5095        | 737.5                | -        | -            | -           | -                    | -        | -            | -           | -                    | -                                     | 23.78                             | 23.78 |
| CA 2A-4A-5A-30A       | LTE B20  | 5            | 27710       | 2310                 | QPSK | 1         | 12               | 9820        | 2385                 | LTE B2   | 20           | 900         | 1960                 | LTE B4   | 20           | 2175        | 2132.5               | LTE B5   | 10           | 2525        | 881.5                | -        | -            | -           | -                    | -                                     | 21.62                             | 23.78 |
| CA 2A-4A-12A-30A      | LTE E20  | 5            | 27710       | 2310                 | QPSK | 1         | 12               | 9820        | 2385                 | LTE B2   | 20           | 900         | 1960                 | LTE B4   | 20           | 2175        | 2132.5               | LTE B12  | 30           | 5095        | 737.5                | -        | -            | -           | -                    | -                                     | 23.69                             | 23.78 |
| CA 2A-4A-25A-20A      | LTE E20  | 5            | 27710       | 2310                 | QPSK | 1         | 12               | 9820        | 2385                 | LTE B2   | 20           | 900         | 1960                 | LTE B2   | 20           | 2175        | 2132.5               | LTE B20  | 10           | 8715        | 722.5                | -        | -            | -           | -                    | -                                     | 23.64                             | 23.78 |
| CA 2A-5A-20A-66A-66A  | LTE B20  | 5            | 27710       | 2310                 | QPSK | 1         | 12               | 9820        | 2385                 | LTE B2   | 20           | 900         | 1960                 | LTE B2   | 20           | 851.5       | 1.7E B66             | 20       | 67736        | 2145        | 1.7E B66             | 20       | 67736        | 2190        | 23.64                | 23.78                                 |                                   |       |
| CA 2A-12A-30A-66A-66A | LTE B20  | 5            | 27710       | 2310                 | QPSK | 1         | 12               | 9820        | 2385                 | LTE B2   | 20           | 900         | 1960                 | LTE B12  | 30           | 5095        | 737.5                | 1.7E B66 | 20           | 67736       | 2190                 | 23.64    | 23.78        | 23.64       | 23.78                | 23.64                                 | 23.78                             |       |

### 1.3.6 LTE Band 7 as PCC

**Table 6**  
**Maximum Output Powers**

[illegible]

### 1.3.7 LTE Band 41 as PCC

**Table 7**  
**Maximum Output Powers**

| Combination | PCC      |              |              |                      |      |            |                  |                  |                      | SCC 1    |              |                  |                      | 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] | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA 41C (1)  | LTE B41  | 5            | 39750        | 2506                 | QPSK | 1          | 24               | 39750            | 2506                 | LTE B41  | 20           | 39867            | 2517.7               | 24.63                                 | 24.65                             |

#### 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: A3LSMN981W                        |  <b>PCTEST</b><br><small>Proud to be part of element</small> | <b>SAR EVALUATION REPORT</b>      |  | <b>Reviewed by:</b><br>Quality Manager |
| <b>Test Dates:</b><br>06/03/20 - 07/13/20 | <b>DUT Type:</b><br>Portable Handset                                                                                                            | <b>APPENDIX F:</b><br>Page 4 of 9 |                                                                                       |                                        |

## 1.4.1 LTE 4x4 MIMO DL Standalone Powers

Table 8  
Maximum Output Powers

| 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] |
|----------|-----------------|---------|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|--------------------|
| 66       | 20              | 132572  | 1770            | QPSK       | 1       | 0         | 23.18                       | 23.21                          | 23.0               |
| 25       | 3               | 26675   | 1913.5          | QPSK       | 1       | 7         | 23.34                       | 23.30                          | 23.0               |
| 7        | 15              | 20825   | 2507.5          | QPSK       | 1       | 36        | 23.68                       | 23.53                          | 23.0               |
| 30       | 5               | 27710   | 2310            | QPSK       | 1       | 12        | 23.87                       | 23.78                          | 23.2               |
| 41       | 5               | 39750   | 2506            | QPSK       | 1       | 24        | 24.77                       | 24.65                          | 24.0               |

## 1.4.2 LTE Band 12 as PCC

Table 9  
Maximum Output Powers

| 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]-12A (1)       | LTE B12  | 5            | 23095        | 707.5                | QPSK | 1         | 12               | 5095         | 737.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | 25.10           | 25.04                                 |                                   |
| CA [2A]-12A-30A       | LTE B12  | 5            | 23095        | 707.5                | QPSK | 1         | 12               | 5095         | 737.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B30  | 10           | 9820         | 2355                 | 2x2             | -        | -            | -            | -                    | -               | 25.02                                 | 25.04                             |
| CA [2A]-12A-[30A]     | LTE B12  | 5            | 23095        | 707.5                | QPSK | 1         | 12               | 5095         | 737.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 2x2             | LTE B30  | 10           | 9820         | 2355                 | 4x4             | -        | -            | -            | -                    | -               | 24.86                                 | 25.04                             |
| CA [2A]-12A-[30A]     | LTE B12  | 5            | 23095        | 707.5                | QPSK | 1         | 12               | 5095         | 737.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B30  | 10           | 9820         | 2355                 | 4x4             | -        | -            | -            | -                    | -               | 24.98                                 | 25.04                             |
| CA [2A]-2A-7A-12A     | LTE B12  | 5            | 23095        | 707.5                | QPSK | 1         | 12               | 5095         | 737.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B2   | 20           | 700          | 1940                 | 2x2             | LTE B7   | 20           | 3100         | 2655                 | 2x2             | 25.24                                 | 25.04                             |
| CA [2A]-2A-7A-12A     | LTE B12  | 5            | 23095        | 707.5                | QPSK | 1         | 12               | 5095         | 737.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 2x2             | LTE B2   | 20           | 700          | 1940                 | 2x2             | LTE B7   | 20           | 3100         | 2655                 | 4x4             | 25.29                                 | 25.04                             |
| CA [2A]-[2A]-7A-12A   | LTE B12  | 5            | 23095        | 707.5                | QPSK | 1         | 12               | 5095         | 737.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B2   | 20           | 700          | 1940                 | 2x2             | LTE B7   | 20           | 3100         | 2655                 | 4x4             | 25.24                                 | 25.04                             |
| CA [2A]-[2A]-[7A]-12A | LTE B12  | 5            | 23095        | 707.5                | QPSK | 1         | 12               | 5095         | 737.5                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B2   | 20           | 700          | 1940                 | 4x4             | LTE B7   | 20           | 3100         | 2655                 | 4x4             | 25.07                                 | 25.04                             |
| CA [2A]-7A-12B        | LTE B12  | 5            | 23095        | 707.5                | QPSK | 1         | 12               | 5095         | 737.5                | 2x2             | LTE B12  | 5            | 5047         | 732.7                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B7   | 20           | 3100         | 2655                 | 2x2             | 25.04                                 | 25.04                             |
| CA [2A]-7A-12B        | LTE B12  | 5            | 23095        | 707.5                | QPSK | 1         | 12               | 5095         | 737.5                | 2x2             | LTE B12  | 5            | 5047         | 732.7                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 2x2             | LTE B7   | 20           | 3100         | 2655                 | 4x4             | 25.09                                 | 25.04                             |
| CA [2A]-[7A]-12B      | LTE B12  | 5            | 23095        | 707.5                | QPSK | 1         | 12               | 5095         | 737.5                | 2x2             | LTE B12  | 5            | 5047         | 732.7                | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B7   | 20           | 3100         | 2655                 | 4x4             | 25.10                                 | 25.04                             |

## 1.4.3 LTE Band 13 as PCC

Table 10  
Maximum Output Powers

| Combination           | PCC Band | PCC BW [MHz] | PCC [UL] Ch. | PCC [UL] Freq. [MHz] | PCC  |           |                  |              |                      | SCC 1           |          |              |              |                      | SCC 2           |          |              |              |                      | SCC 3           |          |              |              |                      | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |                 |
|-----------------------|----------|--------------|--------------|----------------------|------|-----------|------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|---------------------------------------|-----------------------------------|-----------------|
|                       |          |              |              |                      | 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. |
| CA [2A]-13A           | LTE B13  | 10           | 23230        | 782                  | QPSK | 1         | 49               | 5230         | 751                  | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -                                     | 25.24                             | 25.05           |
| CA [4A]-13A           | LTE B13  | 10           | 23230        | 782                  | QPSK | 1         | 49               | 5230         | 751                  | 2x2             | LTE B4   | 20           | 2175         | 2132.5               | 4x4             | -        | -            | -            | -                    | -               | -        | -            | -            | -                    | -                                     | 25.20                             | 25.05           |
| CA [2A]-13A-66A       | LTE B13  | 5            | 23230        | 782                  | QPSK | 1         | 24               | 5230         | 751                  | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | -        | -            | -            | -                    | -                                     | 25.14                             | 25.11           |
| CA [2A]-13A-[66A]     | LTE B13  | 5            | 23230        | 782                  | QPSK | 1         | 24               | 5230         | 751                  | 2x2             | LTE B2   | 20           | 900          | 1960                 | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | -        | -            | -            | -                    | -                                     | 25.18                             | 25.11           |
| CA [2A]-13A-[66A]     | LTE B13  | 5            | 23230        | 782                  | QPSK | 1         | 24               | 5230         | 751                  | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | -        | -            | -            | -                    | -                                     | 25.10                             | 25.11           |
| CA [13A]-[66A]-66A    | LTE B13  | 5            | 23230        | 782                  | QPSK | 1         | 24               | 5230         | 751                  | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | LTE B66  | 20           | 67236        | 2190                 | 2x2             | -        | -            | -            | -                    | -                                     | 25.23                             | 25.11           |
| CA [2A]-7A-13A        | LTE B13  | 5            | 23230        | 782                  | QPSK | 1         | 24               | 5230         | 751                  | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B7   | 20           | 3100         | 2655                 | 2x2             | LTE B7   | 20           | 2850         | 2630                 | 2x2                                   | 24.89                             | 25.11           |
| CA [2A]-[7A]-13A      | LTE B13  | 5            | 23230        | 782                  | QPSK | 1         | 24               | 5230         | 751                  | 2x2             | LTE B2   | 20           | 900          | 1960                 | 2x2             | LTE B7   | 20           | 3100         | 2655                 | 4x4             | LTE B7   | 20           | 2850         | 2630                 | 2x2                                   | 25.09                             | 25.11           |
| CA [2A]-[7A]-13A      | LTE B13  | 5            | 23230        | 782                  | QPSK | 1         | 24               | 5230         | 751                  | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B7   | 20           | 3100         | 2655                 | 4x4             | LTE B7   | 20           | 2850         | 2630                 | 2x2                                   | 24.98                             | 25.11           |
| CA [2A]-[2A]-[7A]-13A | LTE B13  | 5            | 23230        | 782                  | QPSK | 1         | 24               | 5230         | 751                  | 2x2             | LTE B2   | 20           | 900          | 1960                 | 2x2             | LTE B7   | 20           | 3100         | 2655                 | 4x4             | LTE B7   | 20           | 2850         | 2630                 | 4x4                                   | 25.11                             | 25.11           |
| CA [2A]-[2A]-[7A]-13A | LTE B13  | 5            | 23230        | 782                  | QPSK | 1         | 24               | 5230         | 751                  | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B7   | 20           | 3100         | 2655                 | 4x4             | LTE B7   | 20           | 2850         | 2630                 | 4x4                                   | 25.11                             | 25.11           |

## 1.4.4 LTE Band 5 as PCC

Table 11  
Maximum Output Powers

| Combination            | PCC Band | PCC BW [MHz] | 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                |                 |          |              | SCC 4        |                      |                 |          | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |              |
|------------------------|----------|--------------|----------------------|-------|-----------|------------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|--------------|--------------|----------------------|-----------------|----------|---------------------------------------|-----------------------------------|--------------|
|                        |          |              |                      |       |           |                  |              |                      |                 | 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] |
| CA 5A (7A)             | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B7       | 20           | 3100                 | 2655            | 4x4      | -            | -            | -                    | -               | -        | -            | -            | -                    | -               | -        | 25.26                                 | 25.31                             |              |
| CA [2A]-4A-5A          | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B2       | 20           | 900                  | 1960            | 4x4      | LTE B4       | 20           | 2175                 | 2132.5          | 2x2      | -            | -            | -                    | -               | -        | -                                     | 25.44                             | 25.31        |
| CA [2A]-4A-5A          | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B2       | 20           | 900                  | 1960            | 2x2      | LTE B4       | 20           | 2175                 | 2132.5          | 4x4      | -            | -            | -                    | -               | -        | -                                     | 25.40                             | 25.31        |
| CA [2A]-4A-5A          | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B2       | 20           | 900                  | 1960            | 4x4      | LTE B4       | 20           | 2175                 | 2132.5          | 4x4      | -            | -            | -                    | -               | -        | -                                     | 25.37                             | 25.31        |
| CA 4A-5A-[30A]         | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B4       | 20           | 2175                 | 2132.5          | 2x2      | LTE B30      | 10           | 9820                 | 2355            | 4x4      | -            | -            | -                    | -               | -        | -                                     | 24.97                             | 25.31        |
| CA 5A-[7A]-7A          | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B7       | 20           | 3100                 | 2655            | 4x4      | LTE B7       | 20           | 2850                 | 2630            | 2x2      | -            | -            | -                    | -               | -        | -                                     | 25.22                             | 25.31        |
| CA 5A-[7A]-7A          | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B7       | 20           | 3100                 | 2655            | 4x4      | LTE B7       | 20           | 2850                 | 2630            | 4x4      | -            | -            | -                    | -               | -        | -                                     | 25.30                             | 25.31        |
| CA 5A-[7C]             | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B7       | 20           | 3100                 | 2655            | 4x4      | LTE B7       | 20           | 2902                 | 2635.2          | 4x4      | -            | -            | -                    | -               | -        | -                                     | 25.24                             | 25.31        |
| CA 5A-[66C]            | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B66      | 20           | 66786                | 2145            | 4x4      | LTE B66      | 20           | 66984                | 2144.8          | 4x4      | -            | -            | -                    | -               | -        | -                                     | 25.27                             | 25.31        |
| CA [2A]-5A-30A-66A     | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B2       | 20           | 900                  | 1960            | 4x4      | LTE B30      | 10           | 9820                 | 2355            | 2x2      | LTE B66      | 20           | 66786                | 2145            | 2x2      | 24.92                                 | 25.31                             |              |
| CA 2A-5A-[30A]-66A     | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B2       | 20           | 900                  | 1960            | 2x2      | LTE B30      | 10           | 9820                 | 2355            | 4x4      | LTE B66      | 20           | 66786                | 2145            | 2x2      | 24.97                                 | 25.31                             |              |
| CA 2A-5A-30A-[66A]     | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B2       | 20           | 900                  | 1960            | 2x2      | LTE B30      | 10           | 9820                 | 2355            | 2x2      | LTE B66      | 20           | 66786                | 2145            | 4x4      | 25.00                                 | 25.31                             |              |
| CA [2A]-5A-[30A]-66A   | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B2       | 20           | 900                  | 1960            | 4x4      | LTE B30      | 10           | 9820                 | 2355            | 2x2      | LTE B66      | 20           | 66786                | 2145            | 4x4      | 24.94                                 | 25.31                             |              |
| CA [2A]-5A-30A-[66A]   | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B2       | 20           | 900                  | 1960            | 4x4      | LTE B30      | 10           | 9820                 | 2355            | 4x4      | LTE B66      | 20           | 66786                | 2145            | 4x4      | 24.91                                 | 25.31                             |              |
| CA [2A]-5A-[30A]-[66A] | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B2       | 20           | 900                  | 1960            | 4x4      | LTE B30      | 10           | 9820                 | 2355            | 4x4      | LTE B66      | 20           | 66786                | 2145            | 4x4      | 24.94                                 | 25.31                             |              |
| CA [2A]-5A-[30A]-[66A] | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B2       | 20           | 900                  | 1960            | 2x2      | LTE B30      | 10           | 9820                 | 2355            | 4x4      | LTE B66      | 20           | 66786                | 2145            | 4x4      | 24.90                                 | 25.31                             |              |
| CA 5A-[30A]-[66A]-66A  | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B30      | 10           | 9820                 | 2355            | 2x2      | LTE B66      | 20           | 66786                | 2145            | 2x       | -            | -            | -                    | -               | -        | -                                     | 24.90                             | 25.31        |
| CA 5A-[30A]-[66A]-66A  | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B30      | 10           | 9820                 | 2355            | 4x4      | LTE B66      | 20           | 66786                | 2145            | 2x2      | LTE B66      | 20           | 66786                | 2145            | 2x2      | 24.95                                 | 25.31                             |              |
| CA 5A-[30A]-[66A]-66A  | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B30      | 10           | 9820                 | 2355            | 4x4      | LTE B66      | 20           | 66786                | 2145            | 4x4      | LTE B66      | 20           | 66786                | 2145            | 2x2      | 25.03                                 | 25.31                             |              |
| CA 5A-[30A]-[66A]-66A  | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B30      | 10           | 9820                 | 2355            | 2x2      | LTE B66      | 20           | 66786                | 2145            | 4x4      | LTE B66      | 20           | 66786                | 2145            | 4x4      | 24.98                                 | 25.31                             |              |
| CA 5A-[30A]-[66A]-66A  | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B30      | 10           | 9820                 | 2355            | 4x4      | LTE B66      | 20           | 66786                | 2145            | 4x4      | LTE B66      | 20           | 66786                | 2145            | 4x4      | 24.98                                 | 25.31                             |              |
| CA [2A]-2A-5A-66A-66A  | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B2       | 20           | 900                  | 1960            | 4x4      | LTE B2       | 20           | 1000                 | 1940            | 2x2      | LTE B66      | 20           | 66786                | 2145            | 2x2      | 24.43                                 | 25.31                             |              |
| CA [2A]-2A-5A-66A-66A  | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B2       | 20           | 900                  | 1960            | 2x2      | LTE B2       | 20           | 1000                 | 1940            | 2x2      | LTE B66      | 20           | 66786                | 2145            | 2x2      | 24.40                                 | 25.31                             |              |
| CA [2A]-2A-5A-66A-66A  | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B2       | 20           | 900                  | 1960            | 4x4      | LTE B2       | 20           | 1000                 | 1940            | 2x2      | LTE B66      | 20           | 66786                | 2145            | 4x4      | 24.47                                 | 25.31                             |              |
| CA [2A]-2A-5A-66A-66A  | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B2       | 20           | 900                  | 1960            | 2x2      | LTE B2       | 20           | 1000                 | 1940            | 2x2      | LTE B66      | 20           | 66786                | 2145            | 4x4      | 24.53                                 | 25.31                             |              |
| CA [2A]-2A-5A-66A-66A  | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B2       | 20           | 900                  | 1960            | 4x4      | LTE B2       | 20           | 1000                 | 1940            | 4x4      | LTE B66      | 20           | 66786                | 2145            | 4x4      | 25.12                                 | 25.31                             |              |
| CA [2A]-2A-5A-66A-66A  | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B2       | 20           | 900                  | 1960            | 4x4      | LTE B2       | 20           | 1000                 | 1940            | 4x4      | LTE B66      | 20           | 66786                | 2145            | 4x4      | 25.16                                 | 25.31                             |              |
| CA [2A]-2A-5A-66A-66A  | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B2       | 20           | 900                  | 1960            | 4x4      | LTE B2       | 20           | 1000                 | 1940            | 2x2      | LTE B66      | 20           | 66786                | 2145            | 4x4      | 25.12                                 | 25.31                             |              |
| CA [2A]-2A-5A-66A-66A  | LTE B5   | 10           | 20525                | 836.5 | QPSK      | 1                | 0            | 2525                 | 881.5           | 2x2      | LTE B2       | 20           | 900                  | 1960            | 4x4      | LTE B2       | 20           | 1000                 | 1940            | 2x2      | LTE B66      | 20           | 66786                | 2145            | 4x4      | 25.16                                 | 25.31                             |              |

### 1.4.5 LTE Band 66 as PCC

**Table 12**  
**Maximum Output Powers**

| Cable                                                                                                                                                             | PCC Band | PCC BW [MHz] | PCC [kHz] | PCC [dBm] | Mod  | PCC Uplink RB | PCC Uplink RB Offset | PCC [kHz] [MHz] | DL Ant. Config | SCS 1     |                |           |           | SCS 2          |           |           |                | SCS 3     |           |                |      | SCS 4 |       |      |     | Power |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|-----------|-----------|------|---------------|----------------------|-----------------|----------------|-----------|----------------|-----------|-----------|----------------|-----------|-----------|----------------|-----------|-----------|----------------|------|-------|-------|------|-----|-------|-------|
|                                                                                                                                                                   |          |              |           |           |      |               |                      |                 |                | SCS [kHz] | DL Ant. Config | SCS [kHz] | SCS [dBm] | DL Ant. Config | SCS [kHz] | SCS [dBm] | DL Ant. Config | SCS [kHz] | SCS [dBm] | DL Ant. Config |      |       |       |      |     |       |       |
| CA-2A-16A                                                                                                                                                         | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA                                                                                                                                                     | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA                                                                                                                                                 | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA                                                                                                                                             | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA                                                                                                                                         | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA                                                                                                                                     | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA                                                                                                                                 | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA                                                                                                                             | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                                                                                                                         | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                                                                                                                     | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                                                                                                                 | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                                                                                                             | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                                                                                                         | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                                                                                                     | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                                                                                                 | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                                                                                             | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                                                                                         | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                                                                                     | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                                                                                 | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                                                                             | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                                                                         | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                                                                     | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                                                                 | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                                                             | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                                                         | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                                                     | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                                                 | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                                             | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                                         | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                                     | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                                 | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                             | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                         | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                     | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA                 | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA             | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA         | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA     | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320      | 242       | 17.00          | 2320 | 242   | 17.00 | 2320 | 242 | 23.12 | 23.12 |
| CA-2A-16A-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA-SSA | LTE-BW   | 20           | 1252.72   | 17.00     | QPSK | 1             | 0                    | 8.0000          | 2320           | 242       |                |           |           |                |           |           |                |           |           |                |      |       |       |      |     |       |       |

## 1.4.6 LTE Band 30 as PCC

**Table 13**  
**Maximum Output Powers**

| 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 2A-4A-[30A]        | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 4x4             | LTE B2   | 20           | 900          | 1960                 | 2x2             | LTE B4   | 20           | 2175         | 2132.5               | 2x2             | -        | -            | -            | -                    | -               | 23.78                                 | 23.78                             |
| CA 12A-12A-30A        | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B12  | 10           | 5095         | 737.5                | 2x2             | -        | -            | -            | -                    | -               | 23.72                                 | 23.78                             |
| CA 2A-12A-30A         | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 4x4             | LTE B2   | 20           | 900          | 1960                 | 2x2             | LTE B12  | 10           | 5095         | 737.5                | 2x2             | -        | -            | -            | -                    | -               | 23.76                                 | 23.78                             |
| CA [2A]-12A-[30A]     | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 4x4             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B12  | 10           | 5095         | 737.5                | 2x2             | -        | -            | -            | -                    | -               | 23.75                                 | 23.78                             |
| CA 2A-29A-30A         | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 4x4             | LTE B2   | 20           | 900          | 1960                 | 2x2             | LTE B29  | 10           | 9715         | 722.5                | 2x2             | -        | -            | -            | -                    | -               | 23.71                                 | 23.78                             |
| CA 4A-5A-30A          | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 4x4             | LTE B4   | 20           | 2175         | 2132.5               | 2x2             | LTE B5   | 10           | 2525         | 881.5                | 2x2             | -        | -            | -            | -                    | -               | 23.74                                 | 23.78                             |
| CA 4A-12A-30A         | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 4x4             | LTE B4   | 20           | 2175         | 2132.5               | 2x2             | LTE B12  | 10           | 5095         | 737.5                | 2x2             | -        | -            | -            | -                    | -               | 23.78                                 | 23.78                             |
| CA 4A-29A-30A         | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 4x4             | LTE B4   | 20           | 2175         | 2132.5               | 2x2             | LTE B29  | 10           | 9715         | 722.5                | 2x2             | -        | -            | -            | -                    | -               | 23.76                                 | 23.78                             |
| CA [2A]-4A-29A-30A    | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B4   | 20           | 2175         | 2132.5               | 2x2             | LTE B29  | 10           | 9715         | 722.5                | 2x2             | 23.74                                 | 23.78                             |
| CA 2A-[4A]-29A-30A    | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B4   | 20           | 2175         | 2132.5               | 2x2             | LTE B29  | 10           | 9715         | 722.5                | 2x2             | 23.70                                 | 23.78                             |
| CA 12A-[4A]-29A-30A   | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B4   | 20           | 2175         | 2132.5               | 2x2             | LTE B29  | 10           | 9715         | 722.5                | 2x2             | 23.69                                 | 23.78                             |
| CA [2A]-12A-30A-66A   | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B5   | 10           | 2525         | 881.5                | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 23.72                                 | 23.78                             |
| CA 2A-5A-[30A]-66A    | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 4x4             | LTE B2   | 20           | 900          | 1960                 | 2x2             | LTE B5   | 10           | 2525         | 881.5                | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 23.74                                 | 23.78                             |
| CA 2A-5A-30A-[66A]    | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B5   | 10           | 2525         | 881.5                | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | 23.77                                 | 23.78                             |
| CA [2A]-5A-[30A]-66A  | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 4x4             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B5   | 10           | 2525         | 881.5                | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | 23.79                                 | 23.78                             |
| CA [2A]-5A-30A-66A    | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B5   | 10           | 2525         | 881.5                | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | 23.72                                 | 23.78                             |
| CA 2A-5A-[30A]-66A    | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 4x4             | LTE B2   | 20           | 900          | 1960                 | 2x2             | LTE B5   | 10           | 2525         | 881.5                | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | 23.74                                 | 23.78                             |
| CA [2A]-5A-30A-[66A]  | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 4x4             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B5   | 10           | 2525         | 881.5                | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | 23.77                                 | 23.78                             |
| CA [2A]-12A-[30A]-66A | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B12  | 10           | 5095         | 737.5                | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 23.69                                 | 23.78                             |
| CA 2A-12A-[30A]-66A   | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 4x4             | LTE B2   | 20           | 900          | 1960                 | 2x2             | LTE B12  | 10           | 5095         | 737.5                | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 23.69                                 | 23.78                             |
| CA 2A-12A-30A-[66A]   | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 2x2             | LTE B2   | 20           | 900          | 1960                 | 2x2             | LTE B12  | 10           | 5095         | 737.5                | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 23.74                                 | 23.78                             |
| CA [2A]-12A-[30A]-66A | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 4x4             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B12  | 10           | 5095         | 737.5                | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 23.75                                 | 23.78                             |
| CA 12A-12A-[30A]-66A  | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B12  | 10           | 5095         | 737.5                | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 23.73                                 | 23.78                             |
| CA 12A-12A-30A-66A    | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 4x4             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B12  | 10           | 5095         | 737.5                | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 23.72                                 | 23.78                             |
| CA [2A]-12A-[30A]-66A | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B12  | 10           | 5095         | 737.5                | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 23.81                                 | 23.78                             |
| CA [2A]-30A-66A-66A   | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 23.68                                 | 23.78                             |
| CA 2A-30A-66A-66A     | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 4x4             | LTE B2   | 20           | 900          | 1960                 | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 23.80                                 | 23.78                             |
| CA 2A-30A-[66A]-66A   | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 23.71                                 | 23.78                             |
| CA 12A-30A-66A-66A    | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 4x4             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 23.74                                 | 23.78                             |
| CA 2A-[30A]-66A-66A   | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 23.70                                 | 23.78                             |
| CA 2A-30A-[66A]-66A   | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 4x4             | LTE B2   | 20           | 900          | 1960                 | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 23.79                                 | 23.78                             |
| CA [2A]-30A-[66A]-66A | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 23.73                                 | 23.78                             |
| CA [2A]-30A-66A-[66A] | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 4x4             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 23.74                                 | 23.78                             |
| CA 12A-[30A]-66A-66A  | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 2x2             | LTE B2   | 20           | 900          | 1960                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 23.77                                 | 23.78                             |
| CA 2A-[30A]-66A-66A   | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 4x4             | LTE B2   | 20           | 900          | 1960                 | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 23.78                                 | 23.78                             |
| CA 5A-30A-[66A]-66A   | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 2x2             | LTE B5   | 10           | 2525         | 881.5                | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 23.72                                 | 23.78                             |
| CA 5A-30A-66A-[66A]   | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 4x4             | LTE B5   | 10           | 2525         | 881.5                | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 23.75                                 | 23.78                             |
| CA 12A-30A-[66A]-66A  | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 2x2             | LTE B12  | 10           | 5095         | 737.5                | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 23.72                                 | 23.78                             |
| CA 12A-30A-66A-[66A]  | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 4x4             | LTE B12  | 10           | 5095         | 737.5                | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 23.73                                 | 23.78                             |
| CA [2A]-30A-[66A]-66A | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 2x2             | LTE B12  | 10           | 5095         | 737.5                | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 23.76                                 | 23.78                             |
| CA 12A-30A-66A-66A    | LTE B30  | 5            | 27710        | 2310                 | QPSK | 1          | 12               | 9820         | 2355                 | 2x2             | LTE B12  | 10           | 5095         | 737.5                | 2x2             | LTE B66  | 20           | 66786        | 2145                 | 4x4             | LTE B66  | 20           | 66786        | 2145                 | 2x2             | 23.76                                 | 23.78                             |

|                                    |                                                                                                                                  |                       |                                                                                       |                                 |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN981W                 |  <b>PCTEST</b><br>Proud to be part of element | SAR EVALUATION REPORT |  | Reviewed by:<br>Quality Manager |
| Test Dates:<br>06/03/20 - 07/13/20 | DUT Type:<br>Portable Handset                                                                                                    |                       |                                                                                       | APPENDIX F:<br>Page 7 of 9      |



## 1.4.8 LTE Band 41 as PCC

**Table 15**  
**Maximum Output Powers**

| Combination  | PCC      |              |              |                      |      |            |                  |              |                      |                 | SCC 1    |              |              |                      |                 | 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. | LTE Tx Power with DL CA Enabled (dBm) | LTE Single Carrier Tx Power (dBm) |
| CA [41C] (1) | LTE B41  | 5            | 39750        | 2506                 | QPSK | 1          | 24               | 39750        | 2506                 | 4x4             | LTE B41  | 20           | 39867        | 2517.7               | 4x4             | 24.62                                 | 24.65                             |

|                                    |                                                                                                                                                 |                       |                                                                                       |                                 |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSMN981W                 |  <b>PCTEST</b><br><small>Proud to be part of element</small> | SAR EVALUATION REPORT |  | Reviewed by:<br>Quality Manager |
| Test Dates:<br>06/03/20 - 07/13/20 | DUT Type:<br>Portable Handset                                                                                                                   |                       |                                                                                       | APPENDIX F:<br>Page 9 of 9      |